

Graphic Scale:
1 Inch = 10 Feet

General Construction Notes:

- The Contractor shall procure all required permits, licenses and inspections. Contractor shall be responsible for all charges and fees as well as, give notices necessary for all incidentals for project.
- Excess excavated materials shall be delivered to a lawful site location, provided by the Contractor at his expense.
- All construction debris (asphalt, concrete, etc.) must be removed from the project site prior to the end of each day to eliminate any potential hazards.
- All areas disturbed by the Contractor, shall be returned to its original condition or better, by the Contractor, at his expense.
- The location of all existing utility lines, mains, services, appurtenances must be verified by the Contractor prior to the commencement of construction. The Contractor shall perform test pits in the presence of the construction engineer. The Contractor shall relocate and/or relay electric, water and gas mains and services where necessary. The Contractor shall be responsible for the repair of any damage caused by his operations. He shall notify the respective utility company for location markout prior to any excavation and the performance of the above mentioned test pits.
- The Contractor is required to perform the proper notification of New Jersey One-Call Center (formerly the garden state underground plant location service) prior to excavation for the purpose of identifying the location of underground facilities. This requirement is in accordance with the underground facilities protection act (p.l. 1994 c. 118). Any and all utilities not subscribing to the New Jersey One-Call Center shall be contacted individually. No work shall commence without proper notifications and verification of all markouts being performed.
- All utility Contractors shall procure all required permits, licenses and inspections, pay all charges and give notices necessary for all incidentals to the due and lawful prosecution of the project.
- The project Contractor shall coordinate with and work with the utility Contractor regarding the ordering of all utility services, utility service inspections and final utility connections.
- The Contractor shall be responsible for properly backfilling and compacting all trenches. No trenches shall be left open after construction hours for the day. All construction areas are to be kept in a condition that allows for safe movement of all vehicular and pedestrian traffic.
- All areas adjacent to newly installed concrete sidewalk, etc. shall be backfilled to finished grade prior to the end of the day to eliminate any potential hazards.
- All areas of disturbance shall be graded so as to eliminate any mounds and/or depressions prior to the end of each day to eliminate any potential hazards.
- Barricades, lighting devices and other traffic control devices shall be placed in accordance with and shall conform to section 110, new jersey department of transportation traffic control standard specifications for road and bridge construction, part 6 of the m.u.l.c.d. and work zone traffic control (u.s. department of transportation).
- All concrete sidewalk designated for removal, shall be taken from the nearest joint, as necessary, to install proposed improvements.
- Where no joints exist on concrete drives or sidewalk, the edge shall be sawcut along straight lines before excavation or paving.
- Where the proposed paving meets the existing paving, the edge shall be cut vertically with a sharp tool, along straight lines. Once completed, the joint shall be properly sealed.
- The Contractor shall be responsible for the construction stakeout of the project.
- The project engineer will provide the location of two (2) building corners to establish the location of the building.
- Inspections or failures to inspect any materials or workmanship by municipal or county officials shall in no way relieve the Contractor of his responsibilities to perform the work in accordance with applicable plans, specifications and laws.
- A trash dumpster shall be provided on site during entire period of construction.
- Contractor shall be responsible to remove any & all items on-site (above and underground) or relocate any & all items on-site to allow for the construction of the proposed site improvements shown on these plans. Any omissions of existing items on this plan shall not relieve the Contractor from his responsibility to remove/relocate said items. Contractor must field visit site to familiarize themselves with project and verify all demolitions responsibilities.
- All improvements must comply and be constructed in accordance with all applicable codes of the municipality planning department, county planning department and all other applicable state, county and local agencies.
- The owner, or his representative, is to designate an individual responsible for construction site safety during the course of site improvements pursuant to N.J.A.C. 5:23-2.21 (e) of the N.J. Uniform Construction Code and CFR 1926.32 (f) (OSHA Competent Person).
- Temporary 6' high chain link fencing shall be provided by the Contractor around the construction to secure the site during the project.

ANCHOR POINT ARCHITECTURE
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Philadelphia, PA 19103

P: 856.547.6414 | F: 856.547.6416

DATE: 06/10/19 PROJECT No. 16-54 DRAWN BY: TD CHECKED BY: G.B.F. SCALE: 1" = 10'

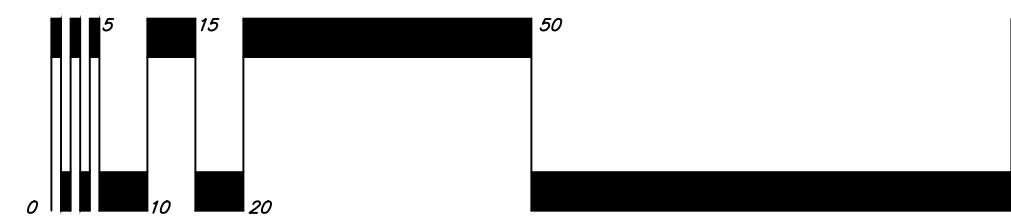
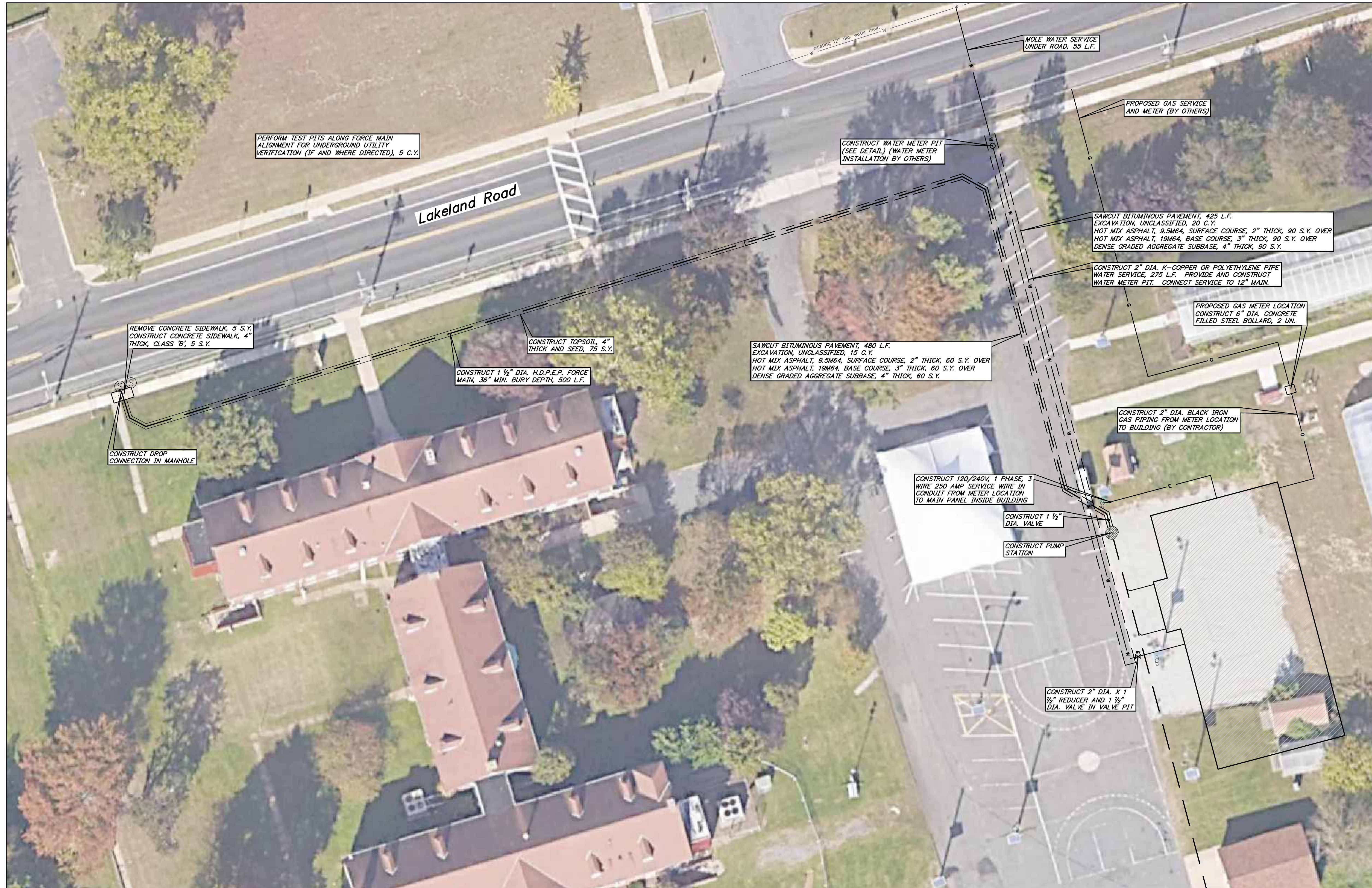
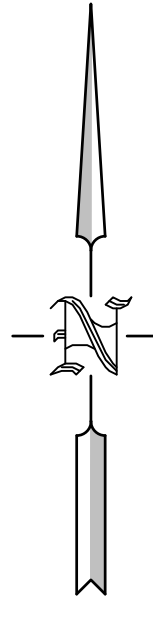
GREGORY BLASE FUSCO
PROFESSIONAL ENGINEER
PA/PE No. 036608-E
NJ PROFESSIONAL PLANNER No. 4076

KEY ENGINEERS, INC.
80 S. WHITE HORSE PIKE
BERLIN, NEW JERSEY 08009-2399
CERTIFICATE OF AUTHORIZATION #24628241300

CAMDEN COUNTY
CAMDEN COUNTY - PROPOSED MULTIPURPOSE BUILDING
508 LAKELAND ROAD
BLACKWOOD, NEW JERSEY 08012-0088

SITE PLAN
Drawing Title

Scale 1" = 10' CAD File
Drawn G.B.F./TD Contract No. 18869
Checked Date 6/10/19 Drawing No. SP-1
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Graphic Scale
scale: 1 inch = 20 feet

REV. I. DATE: 09/23/19 PROJECT No. 16-54 DRAWN BY: T.D. CHKD. BY: G.B.F. SCALE: 1" = 20'

PRECISION: G.M.D. G.B.F. REVISED FOR RE-BID PURPOSES

GREGORY BLASE FUSCO
PROFESSIONAL ENGINEER
PAJFE No. 036608-E
NJ PROFESSIONAL PLANNER No. 4076

KEY ENGINEERS, INC.
PHONE (609) 742-4111
80 S. WHITE HORSE PIKE
BERLIN, NEW JERSEY 08009-2399
CERTIFICATE OF AUTHORIZATION #24628041300

DATE _____

CAMDEN COUNTY
CAMDEN COUNTY - PROPOSED MULTIPURPOSE BUILDING
508 LAKELAND ROAD
BLACKWOOD, NEW JERSEY 08012-0088

UTILITY CONNECTION PLAN
Drawing Title

Scale 1" = 20' CAD File
Drawn GBF/TD Contract No. 18869
Checked _____ Drawing No. SP-2
Date 6/10/19
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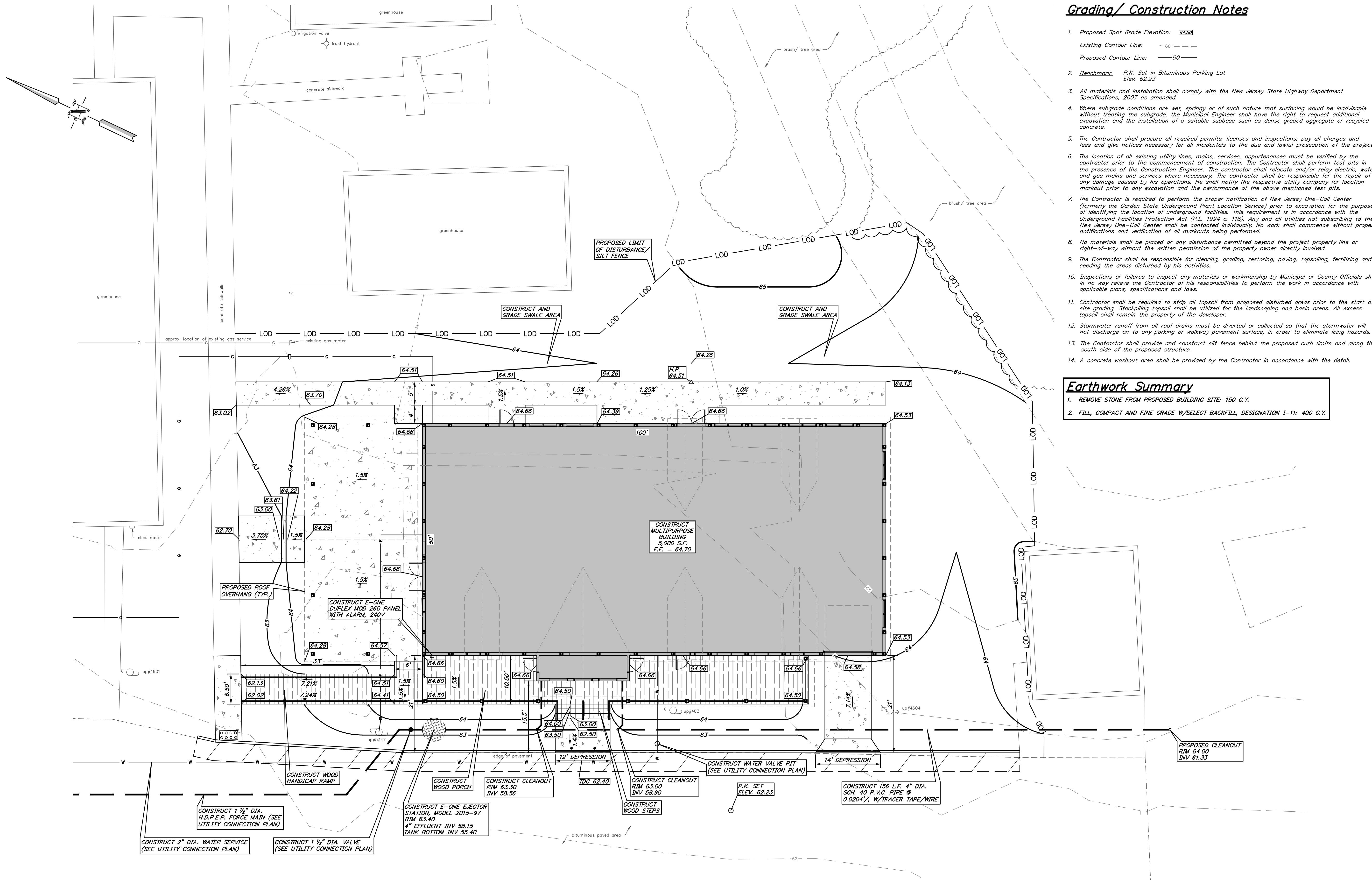
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Grading/ Construction Notes

- Proposed Spot Grade Elevation: 64.50
Existing Contour Line: 60
Proposed Contour Line: 60
- Benchmark: P.K. Set in Bituminous Parking Lot Elev. 62.23
- All materials and installation shall comply with the New Jersey State Highway Department Specifications, 2007 as amended.
- Where subgrade conditions are wet, springy or of such nature that surfacing would be inadvisable without treating the subgrade, the Municipal Engineer shall have the right to request additional excavation and the installation of a suitable subbase such as dense graded aggregate or recycled concrete.
- The Contractor shall procure all required permits, licenses and inspections, pay all charges and fees and give notices necessary for all incidentals to the due and lawful prosecution of the project.
- The location of all existing utility lines, mains, services, appurtenances must be verified by the contractor prior to the commencement of construction. The Contractor shall perform test pits in the presence of the Construction Engineer. The contractor shall relocate and/or relay electric, water and gas mains and services where necessary. The Contractor shall be responsible for the repair of any damage caused by his operations. He shall notify the respective utility company for location markout prior to any excavation and the performance of the above mentioned test pits.
- The Contractor is required to perform the proper notification of New Jersey One-Call Center (formerly the Garden State Underground Plant Location Service) prior to excavation for the purpose of identifying the location of underground facilities. This requirement is in accordance with the Underground Facilities Protection Act (P.L. 1994 c. 118). Any and all utilities not subscribing to the New Jersey One-Call Center shall be contacted individually. No work shall commence without proper notifications and verification of all markouts being performed.
- No materials shall be placed or any disturbance permitted beyond the project property line or right-of-way without the written permission of the property owner directly involved.
- The Contractor shall be responsible for clearing, grading, restoring, paving, topsoiling, fertilizing and seeding the areas disturbed by his activities.
- Inspections or failures to inspect any materials or workmanship by Municipal or County Officials shall in no way relieve the Contractor of his responsibilities to perform the work in accordance with applicable plans, specifications and laws.
- Contractor shall be required to strip all topsoil from proposed disturbed areas prior to the start of site grading. Stockpiling topsoil shall be utilized for the landscaping and basin areas. All excess topsoil shall remain the property of the developer.
- Stormwater runoff from all roof drains must be diverted or collected so that the stormwater will not discharge on to any parking or walkway pavement surface, in order to eliminate icing hazards.
- The Contractor shall provide and construct silt fence behind the proposed curb limits and along the south side of the proposed structure.
- A concrete washout area shall be provided by the Contractor in accordance with the detail.

Earthwork Summary

- REMOVE STONE FROM PROPOSED BUILDING SITE: 150 C.Y.
- FILL, COMPACT AND FINE GRADE W/SELECT BACKFILL, DESIGNATION I-11: 400 C.Y.

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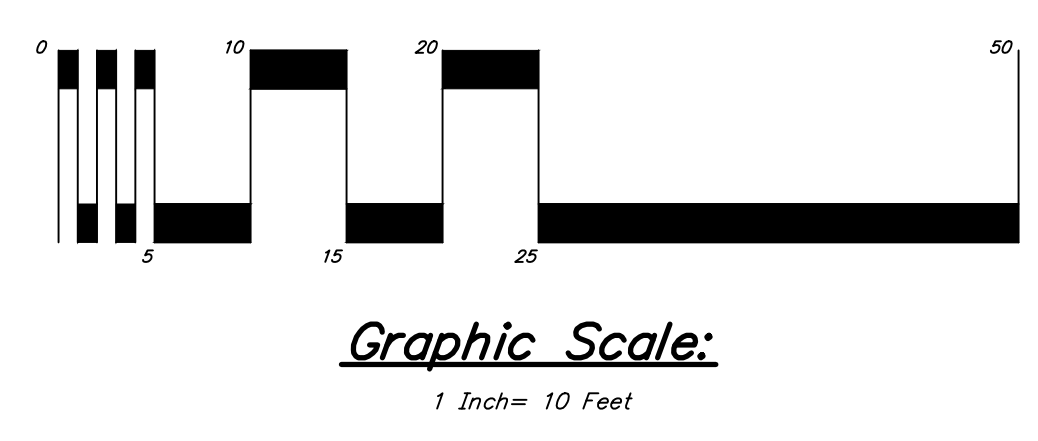
GREGORY BLASE FUSCO
PROFESSIONAL ENGINEER
PAJPE No. 036608-E
NJ PROFESSIONAL PLANNER No. 4076

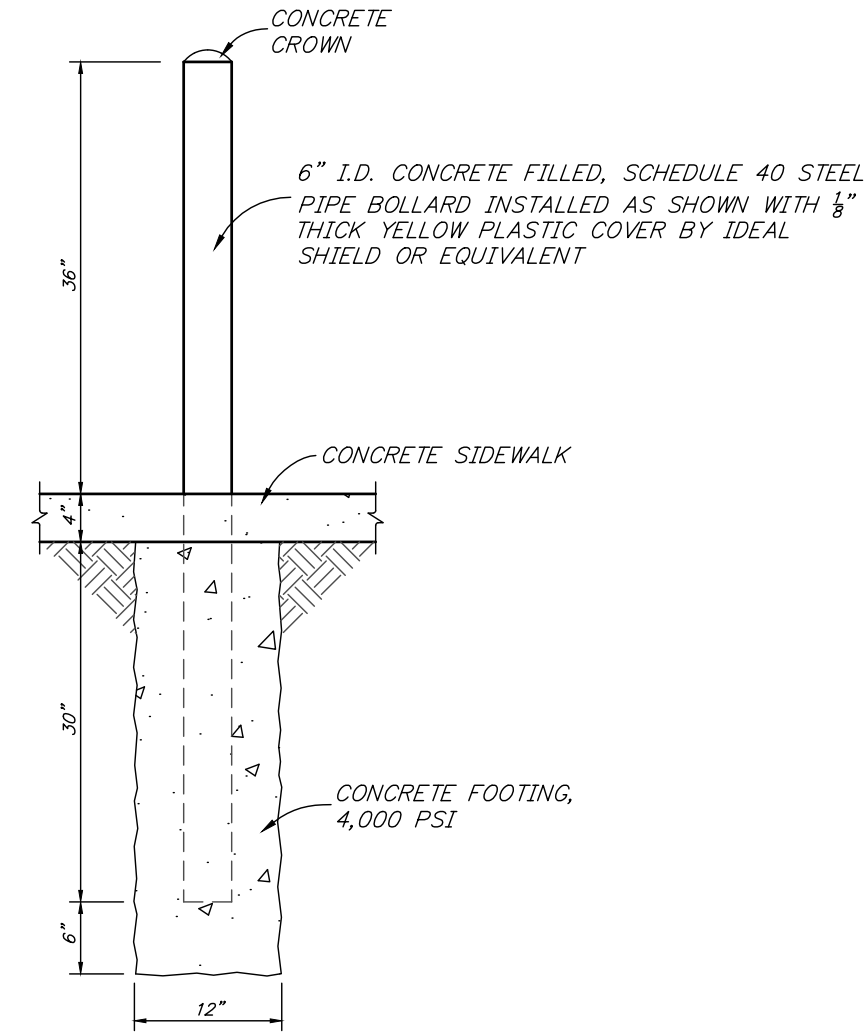
KEY ENGINEERS, INC.
80 S. WHITE HORSE PIKE
BERLIN, NEW JERSEY 08009-2399
CERTIFICATE OF AUTHORIZATION #246282041300

Project Title
CAMDEN COUNTY
CAMDEN COUNTY - PROPOSED MULTIPURPOSE BUILDING
508 LAKELAND ROAD
BLACKWOOD, NEW JERSEY 08012-0088

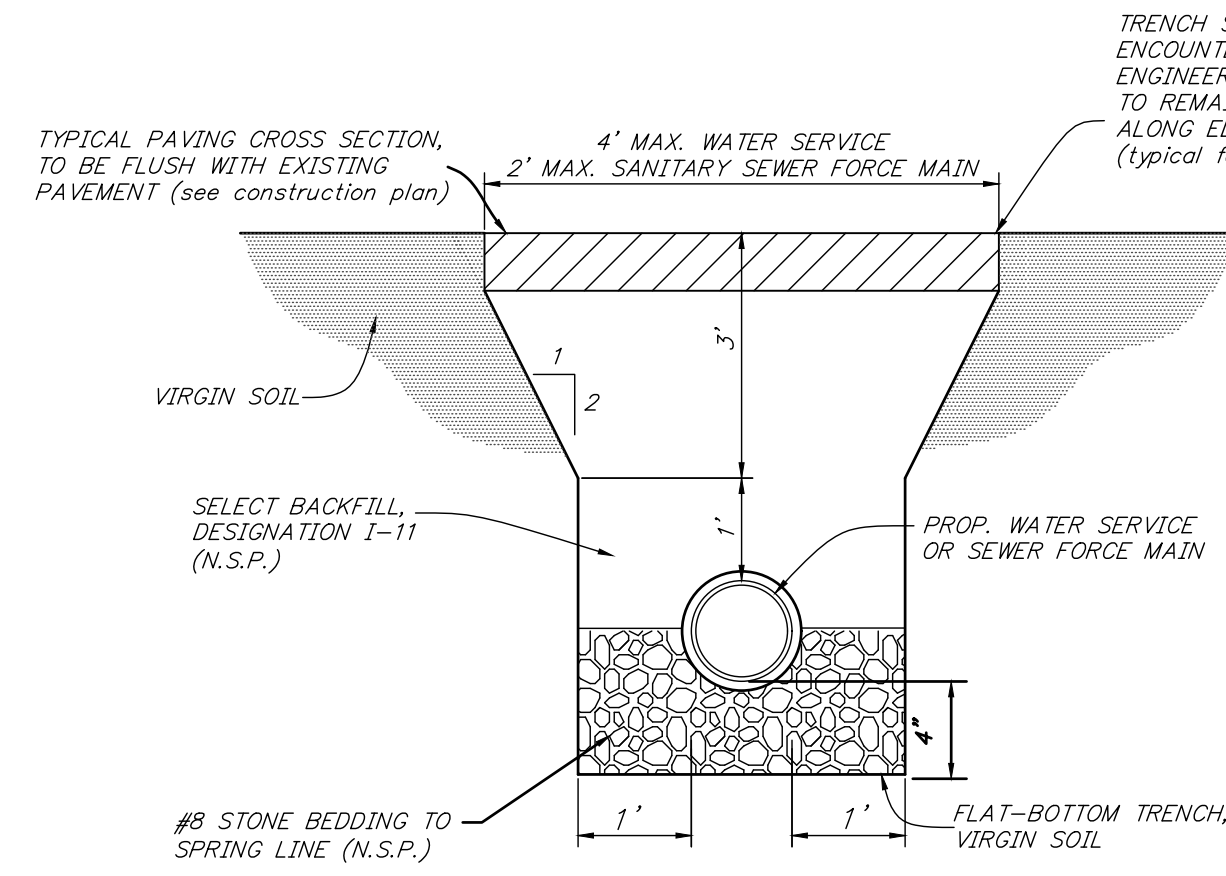
Drawing Title
GRADING PLAN

Scale 1" = 10' CAD File
Drawn GBF/TD Contract No. 18869
Checked Date 6/10/19 Drawing No. SP-3
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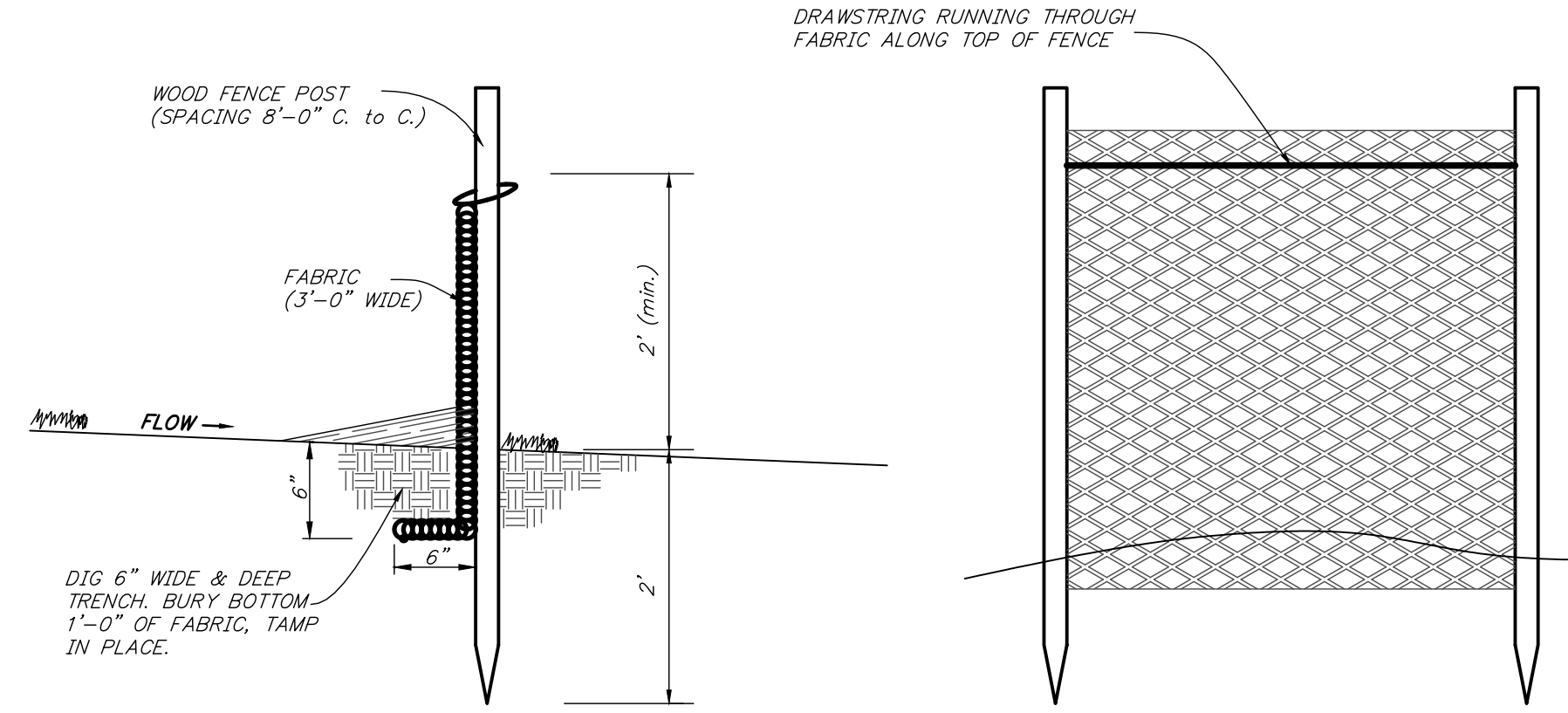


Steel Bollard Detail
not to scale



Trench Detail
not to scale

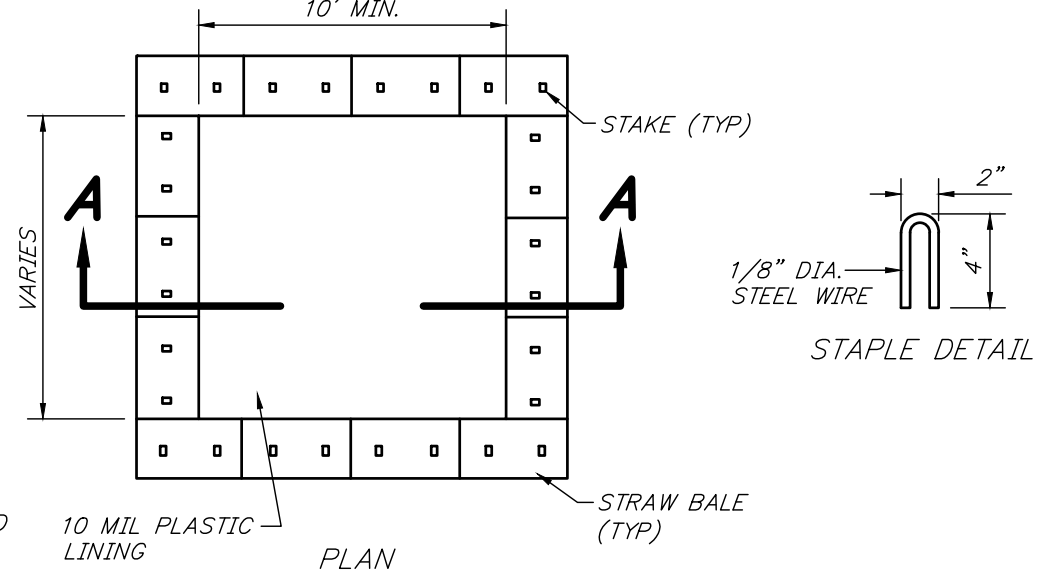
- NOTE:**
1. ALL TRENCH WORK REQUIRED SHALL BE IN ACCORDANCE WITH THE U.S. DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, 1990 (O.S.H.A. 226) AND 29 CFR, PARTS 1926.650 THROUGH 1926.652.
 2. PIPE BACKFILL SHALL BE CAREFULLY PLACED AROUND AND HAND TAMPED UNDER, AROUND AND TO A POINT 1' ABOVE THE PIPE IN LAYERS NOT MORE THAN 6" TH. FROM THIS POINT TO THE SURFACE, THE BACKFILL SHALL BE MECHANICALLY TAMPED IN LAYERS NOT MORE THAN 1' TH. TO OBTAIN A MINIMUM OF 95% OF THE EXISTING BACKFILL MATERIAL SOIL DENSITY. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER THEIR METHOD OF COMPACTION TO ACHIEVE THE MINIMUM SOIL DENSITY, IN WRITING, FOR REVIEW AND APPROVAL.
 3. CONTRACTOR SHALL BE REQUIRED TO UTILIZE SELECT BACKFILL, DESIGNATION I-11 FOR BACKFILL MATERIAL (NO SPECIFIC PAYMENT)
 4. TRENCH FILTER FABRIC, GEOTEXILE STYLE NO. GS BY HANES GEO COMPONENTS OR PROPEX GEOTEX STYLE 200ST OR EQUIVALENT SHALL BE INSTALLED (NO SPECIFIC PAYMENT)
 5. NO. 8 STONE BEDDING SHALL BE PLACED 1 FOOT MINIMUM BELOW THE PIPE AND TO THE SPRING LINE OF THE PIPE. (NO SPECIFIC PAYMENT)



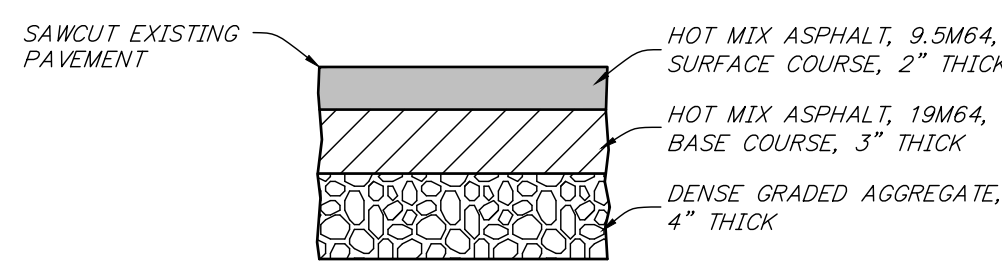
Silt Fence Detail
not to scale

NOTES:

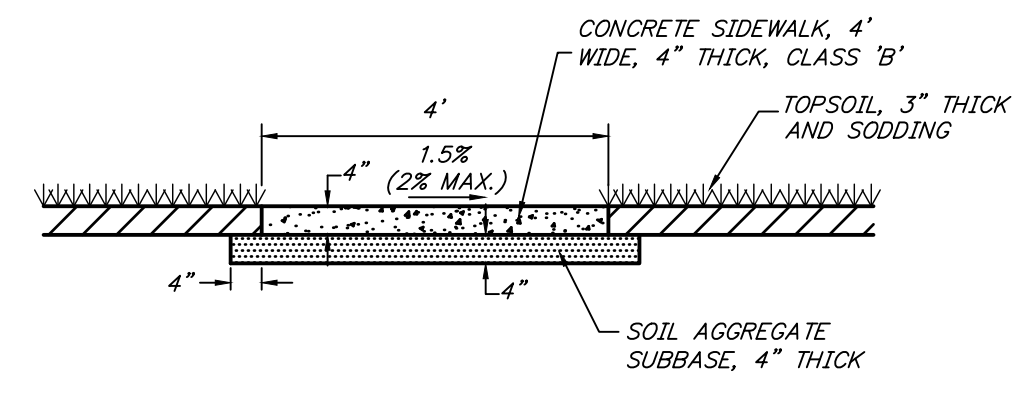
1. ACTUAL LAYOUT DETERMINED IN FIELD
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY
3. CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY PLACEMENT ON SITE
4. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS
5. THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEANED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE
6. AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN ACCEPTED WASTE SITE
7. WHEN THE CONCRETE WASHOUT AREA IS REMOVED, THE DISTURBED AREA SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER ACCEPTED BY THE DISTRICT



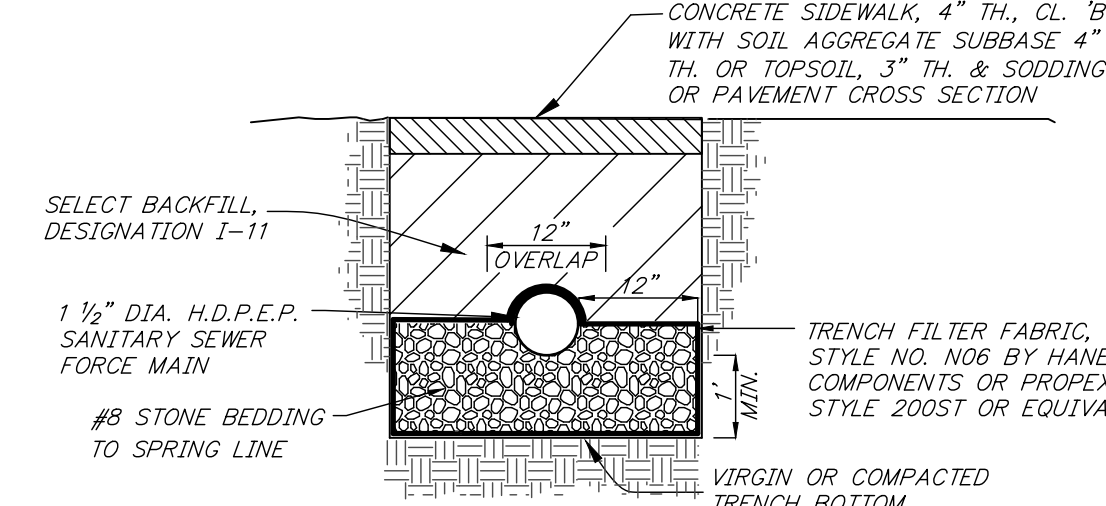
Concrete Washout Area Detail
not to scale



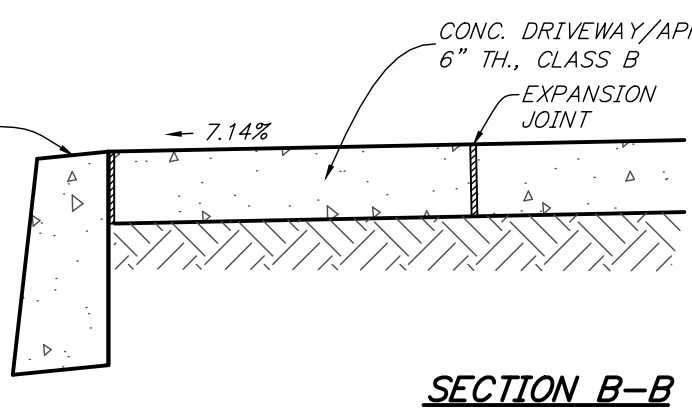
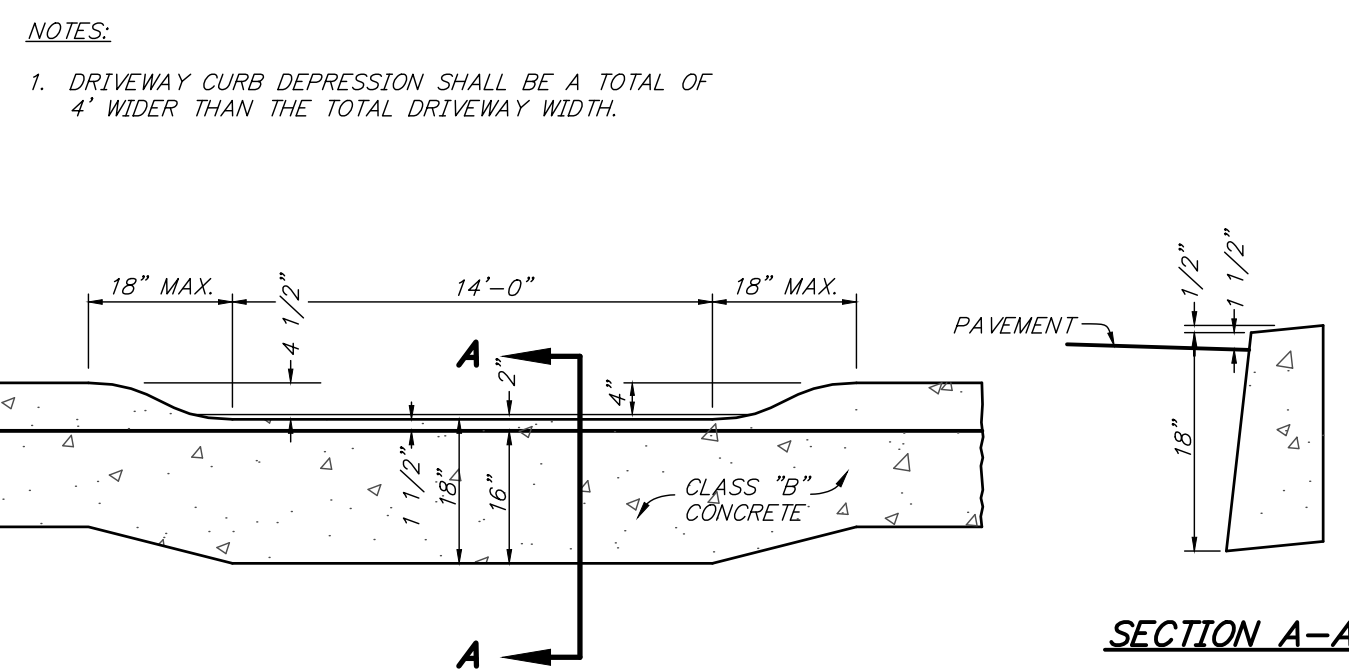
Typical Paving Cross Section
not to scale



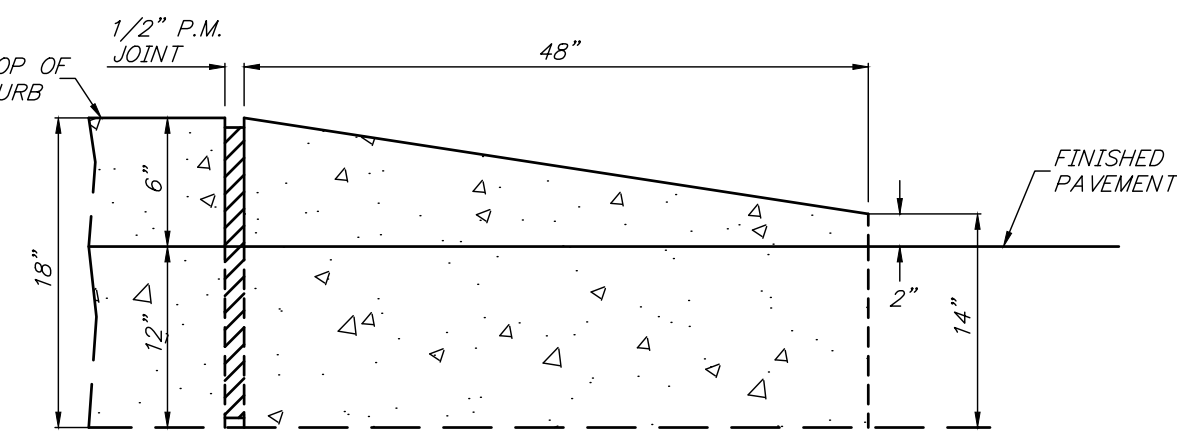
Concrete Sidewalk, 4" Thick, Class 'B' With Soil Aggregate Subbase, 4" Thick Detail
not to scale



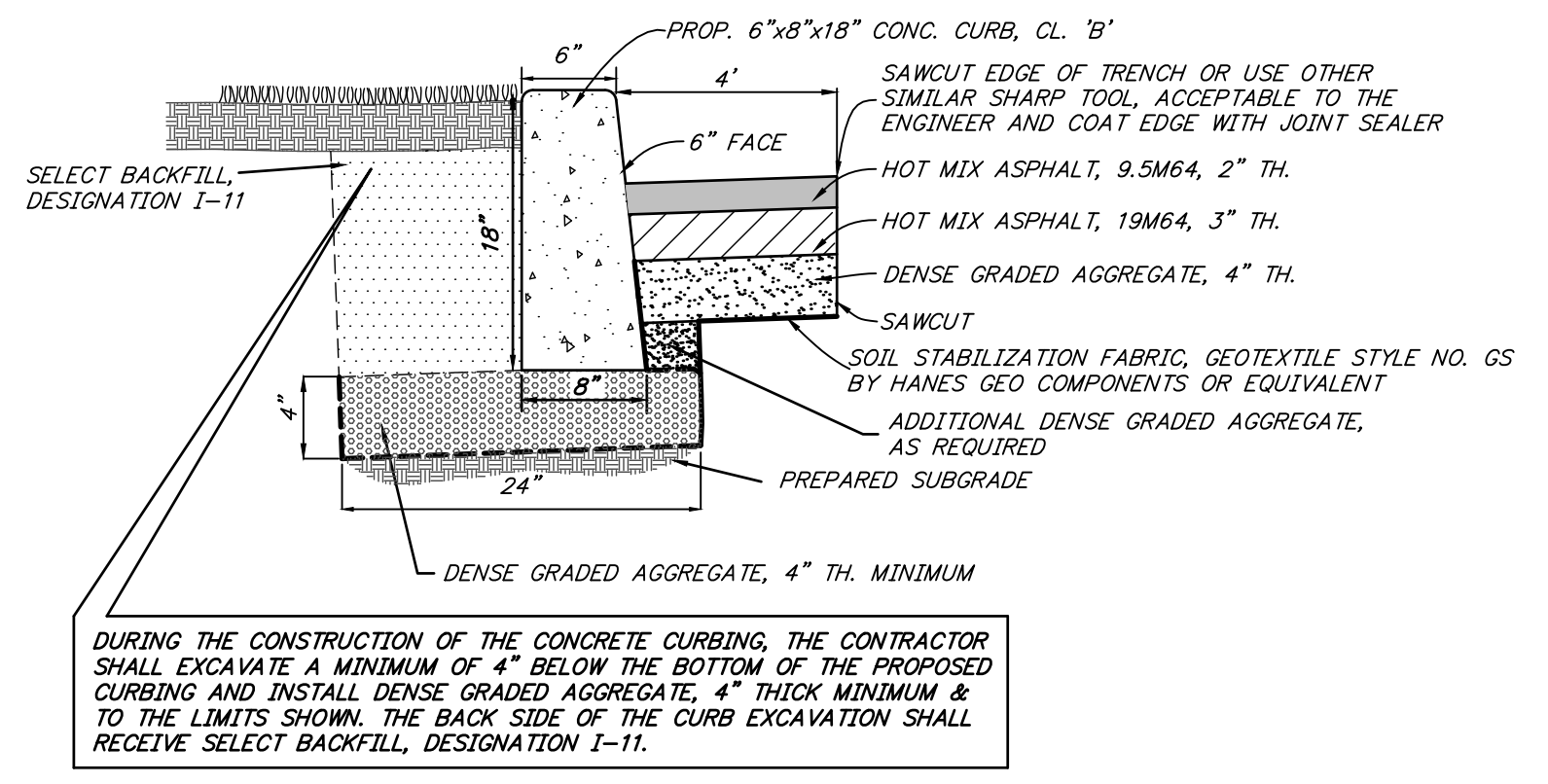
Sanitary Clean Out Lateral Trench Detail
not to scale



Concrete Driveway/Apron, 6" Thick, Class 'B' & Curb Depression Detail
not to scale



End Taper Detail
not to scale



6"x8"x18" Conc. Curb w/ Select Backfill Designation I-11, and Dense Graded Aggregate (Detail and Cross-Section)
not to scale

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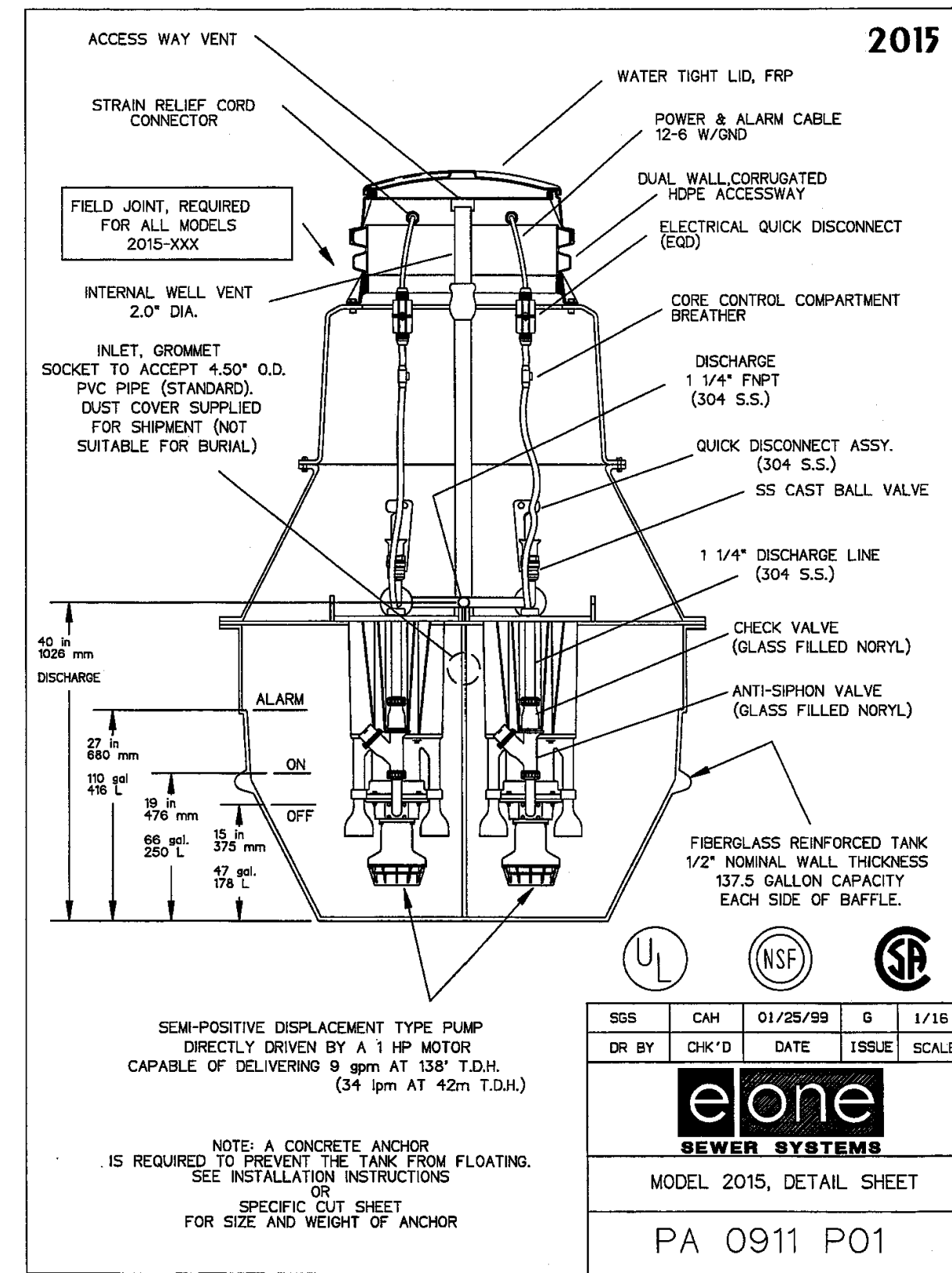
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CAMDEN COUNTY
CAMDEN COUNTY - PROPOSED MULTIPURPOSE BUILDING
508 LAKELAND ROAD
BLACKWOOD, NEW JERSEY 08012-0088

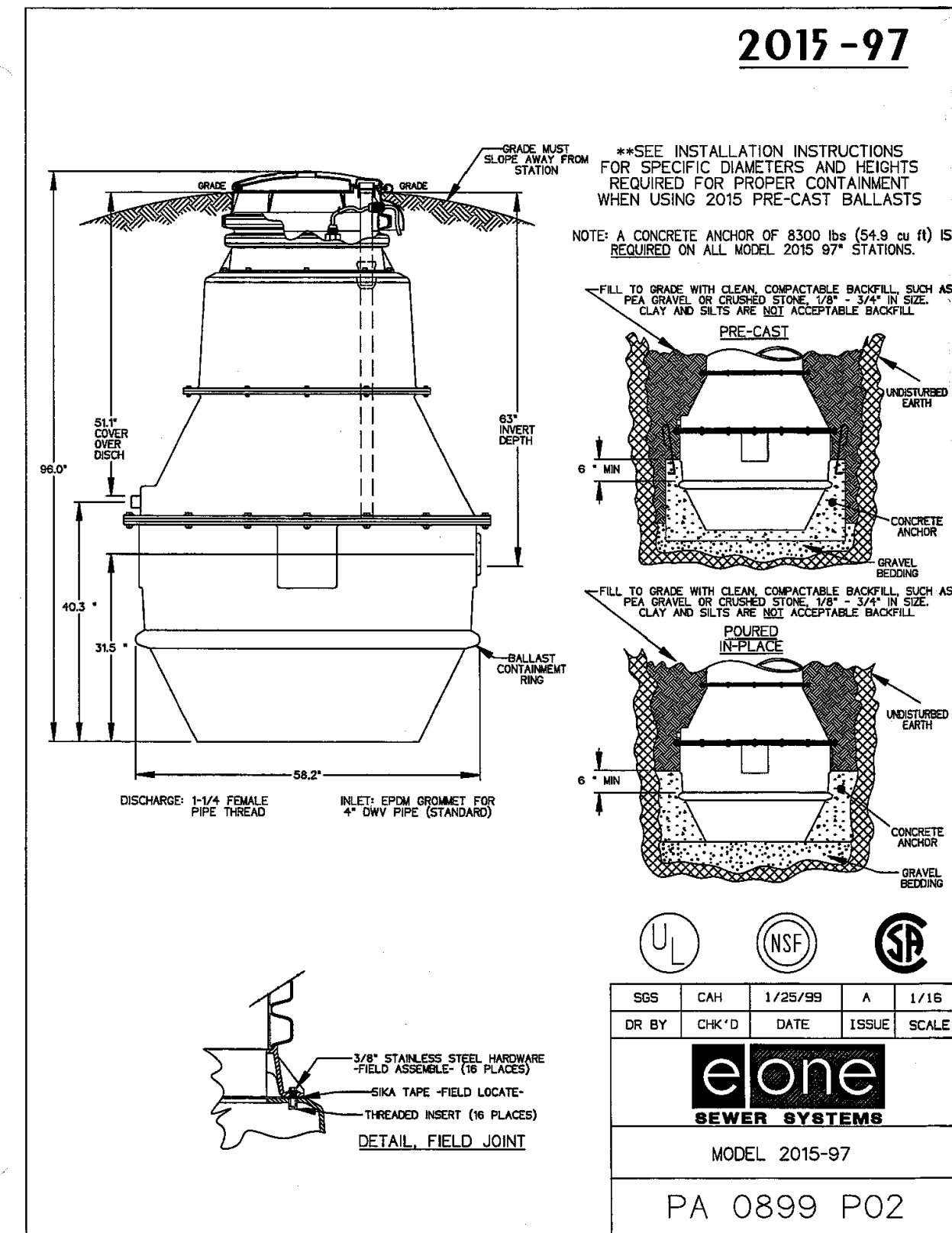
DETAILS
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Checked		Drawing No. SP-4
Date	6/10/19	

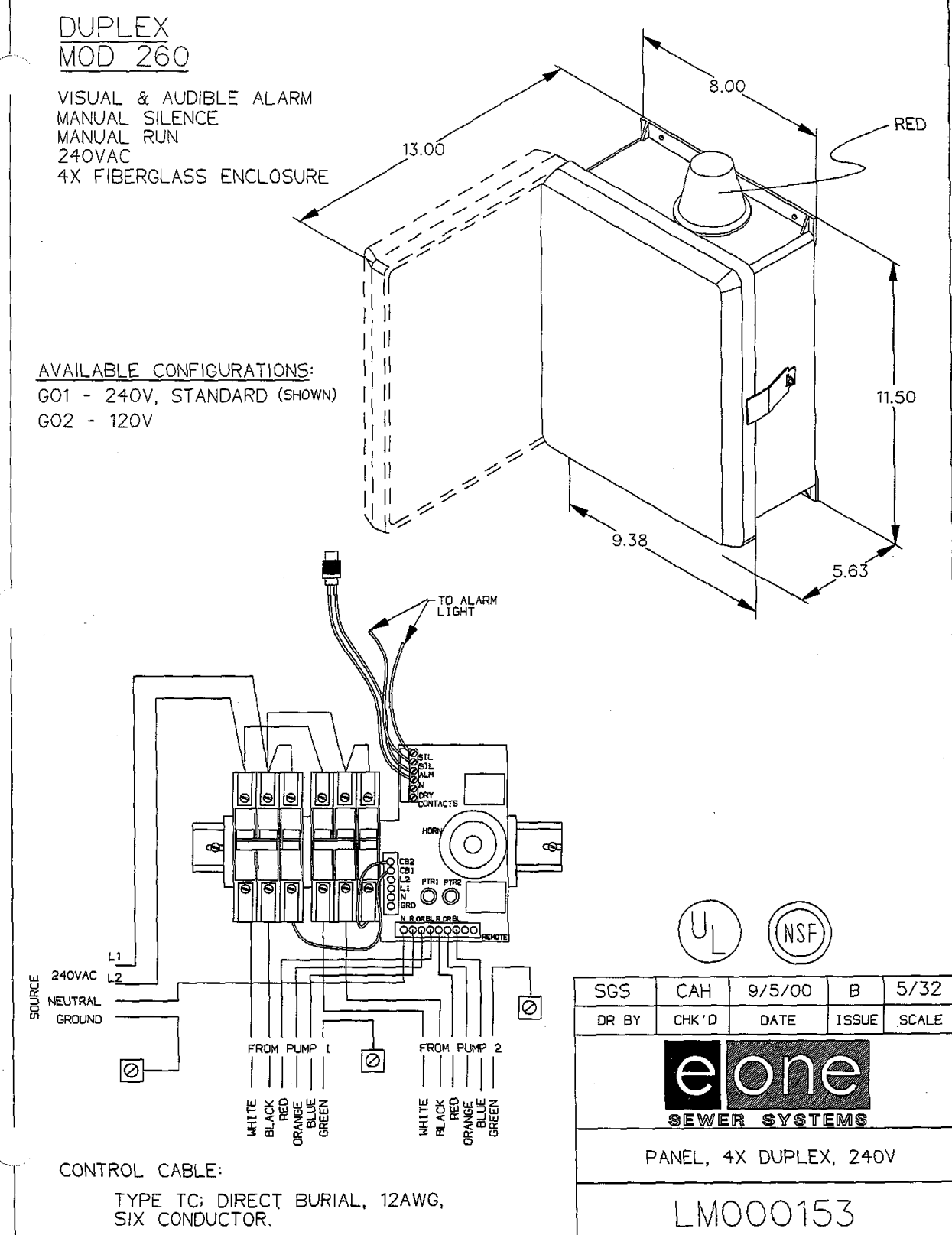
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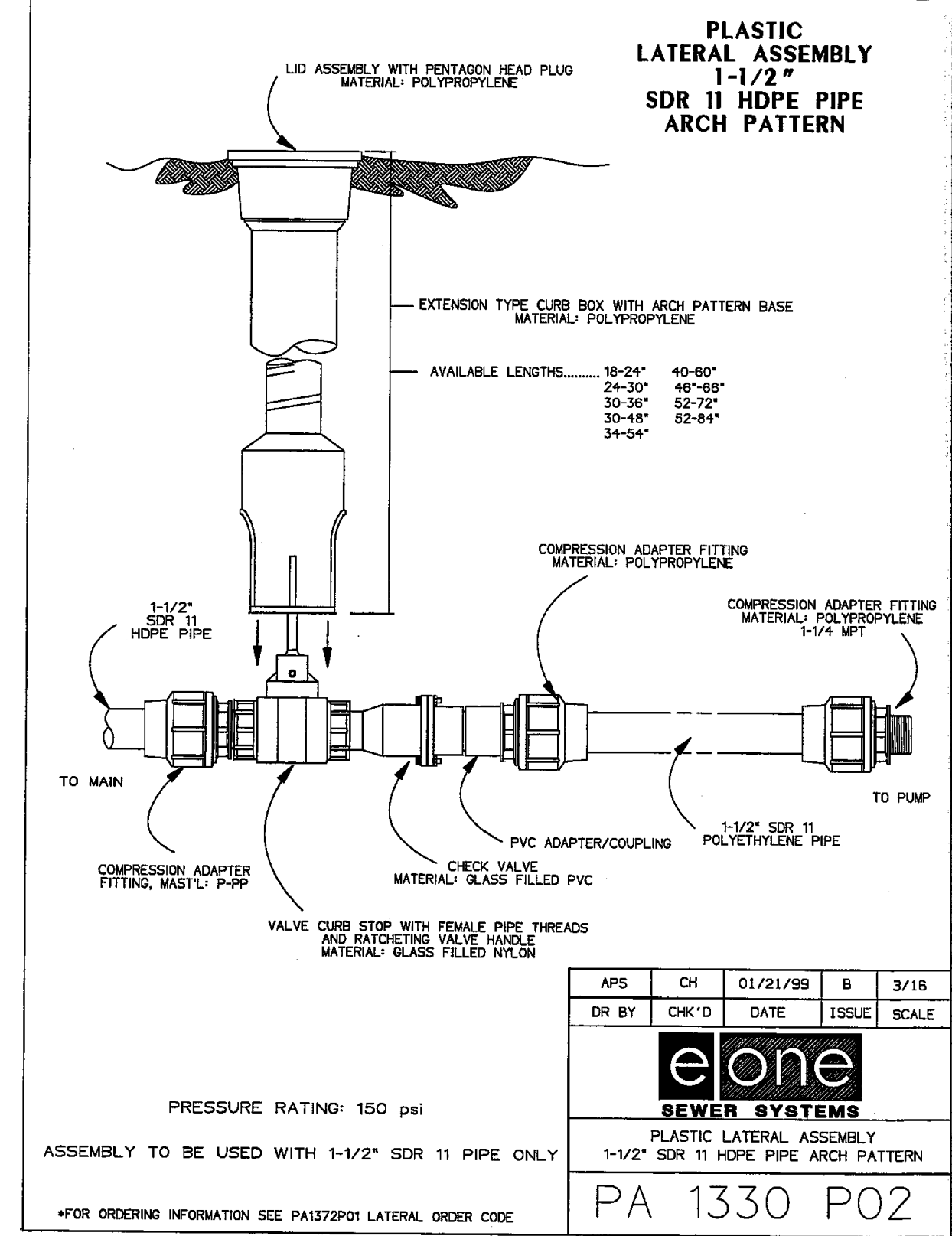
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SEWER SYSTEMS				
MODEL 2015, DETAIL SHEET				
PA 0911 P01				



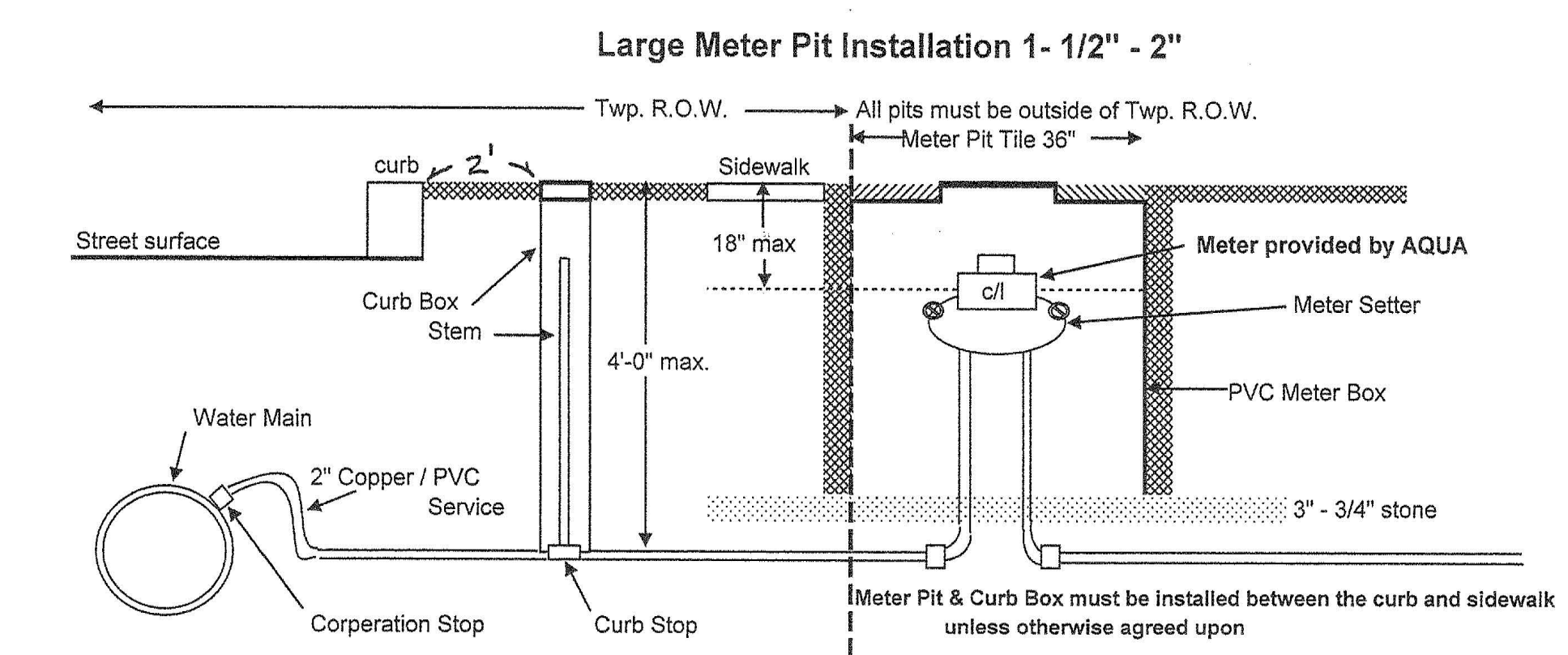
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PA 0899 P02				



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SEWER SYSTEMS				
PANEL, 4X DUPLEX, 240V				
LM000153				



SGS	CAH	01/21/99	B	3/18
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elone				
SEWER SYSTEMS				
PLASTIC LATERAL ASSEMBLY				
1-1/2\"/>				



	1 1/2"	2"
Corperation Stop	FB1000-7	FB1000-7
Curb Stop	B44-777-G	B44-777-G
Curb Box	EA2-40-50	EA2-40-50
Stationary Rod	SR0D-3	SR0D-3
Meter Setter	V V 76 - 18B - 4466	V V 77 - 18B - 4477
Meter Pit	36"x36"	36"x36"
Meter Pit Lid		

Local Suppliers:
 Kennedy Culvert 856.627.7000
 RIO Supply 856.719.0081
 HD Supply 856.753.5566
 Waterworks Supply 609.567.6630

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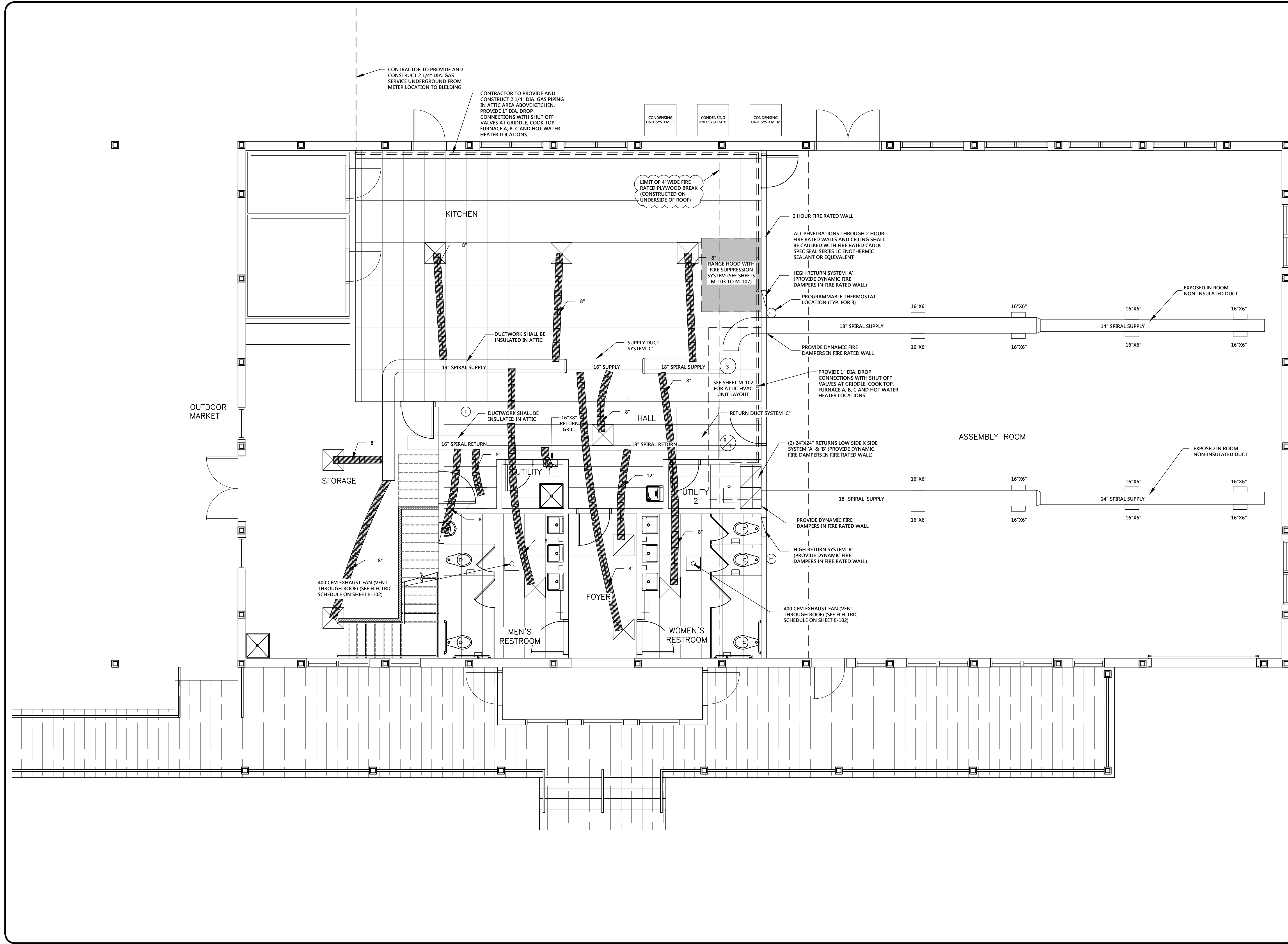
GREGORY BLASE FUSCO
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KEY ENGINEERS, INC.
 INC.
 80 S. WHITE HORSE PIKE
 BERLIN, NEW JERSEY 08009-2399
 CERTIFICATE OF AUTHORIZATION #24628041300

CAMDEN COUNTY
 CAMDEN COUNTY - PROPOSED MULTIPURPOSE BUILDING
 508 LAKELAND ROAD
 BLACKWOOD, NEW JERSEY 08012-0088

DETAILS
 Drawing Title

Scale AS NOTED CAD File
 Drawn GBF/TD Contract No. 18869
 Checked Drawing No.
 Date 6/10/19 **SP-5**
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CONTRACTOR TO PROVIDE AND CONSTRUCT 2 1/4" DIA. GAS SERVICE UNDERGROUND FROM METER LOCATION TO BUILDING

CONTRACTOR TO PROVIDE AND CONSTRUCT 2 1/4" DIA. GAS PIPING IN ATTIC AREA ABOVE KITCHEN. PROVIDE 1" DIA. DROP CONNECTIONS WITH SHUT OFF VALVES AT GRIDDLE, COOK TOP, FURNACE A, B, C AND HOT WATER HEATER LOCATIONS.

CONDENSING UNIT SYSTEM 'C'
CONDENSING UNIT SYSTEM 'B'
CONDENSING UNIT SYSTEM 'A'

LIMIT OF 4" WIDE FIRE RATED PLYWOOD BREAK (CONSTRUCTED ON UNDERSIDE OF ROOF)

2 HOUR FIRE RATED WALL
ALL PENETRATIONS THROUGH 2 HOUR FIRE RATED WALLS AND CEILING SHALL BE CAULKED WITH FIRE RATED CAULK SPEC SEAL SERIES LC ENOTHERMIC SEALANT OR EQUIVALENT

HIGH RETURN SYSTEM 'A' (PROVIDE DYNAMIC FIRE DAMPERS IN FIRE RATED WALL)

PROGRAMMABLE THERMOSTAT LOCATION (TYP. FOR 3)

PROVIDE DYNAMIC FIRE DAMPERS IN FIRE RATED WALL

PROVIDE 1" DIA. DROP CONNECTIONS WITH SHUT OFF VALVES AT GRIDDLE, COOK TOP, FURNACE A, B, C AND HOT WATER HEATER LOCATIONS.

SEE SHEET M-102 FOR ATTIC HVAC UNIT LAYOUT

(2) 24"X24" RETURNS LOW SIDE X SIDE SYSTEM 'A' & 'B' (PROVIDE DYNAMIC FIRE DAMPERS IN FIRE RATED WALL)

PROVIDE DYNAMIC FIRE DAMPERS IN FIRE RATED WALL

HIGH RETURN SYSTEM 'B' (PROVIDE DYNAMIC FIRE DAMPERS IN FIRE RATED WALL)

400 CFM EXHAUST FAN (VENT THROUGH ROOF) (SEE ELECTRIC SCHEDULE ON SHEET E-102)

EXPOSED IN ROOM NON-INSULATED DUCT

EXPOSED IN ROOM NON-INSULATED DUCT

OUTDOOR MARKET

STORAGE

MEN'S RESTROOM

WOMEN'S RESTROOM

FOYER

UTILITY 2

UTILITY

HALL

KITCHEN

ASSEMBLY ROOM



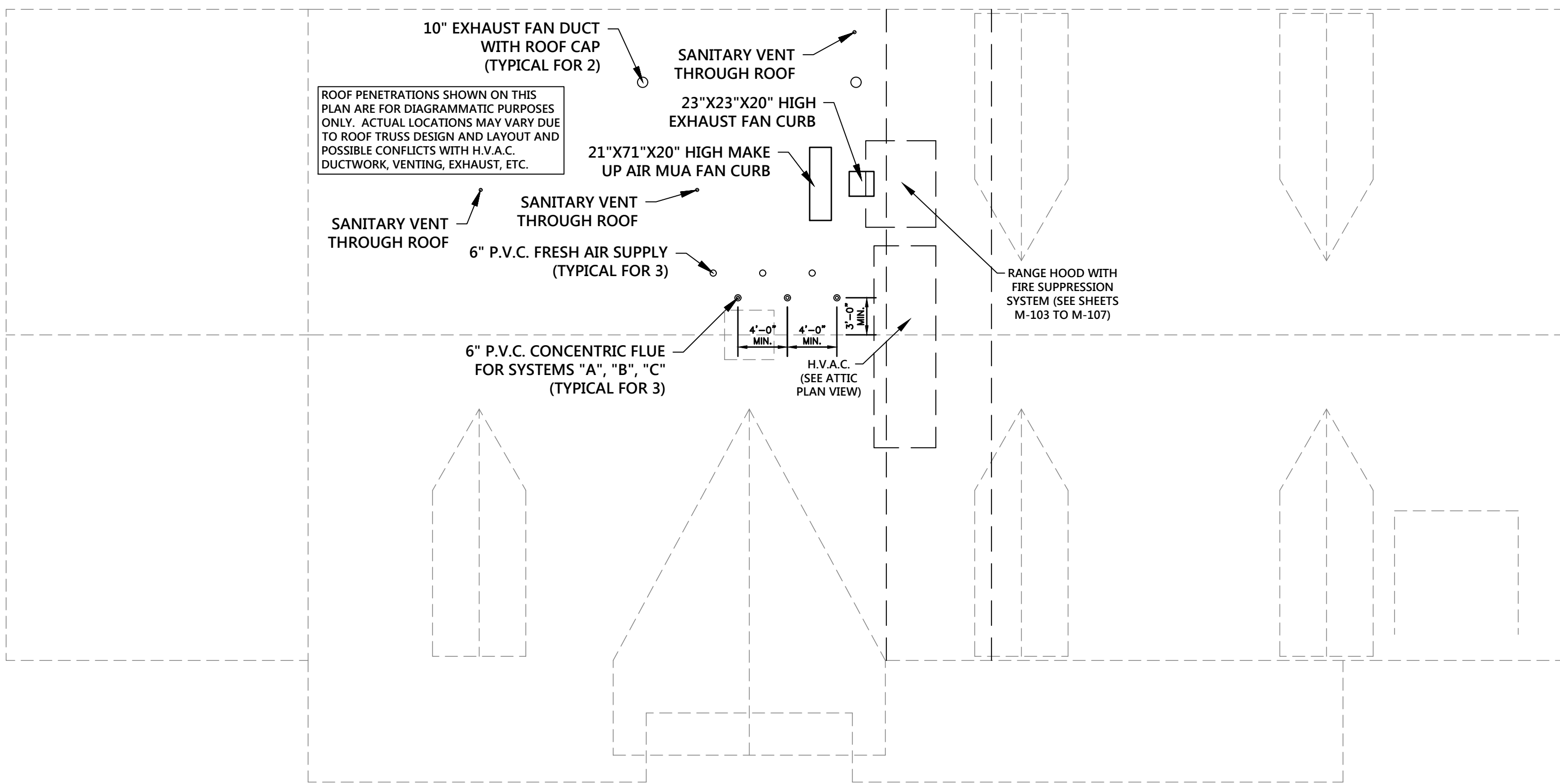
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DATE: 08/10/18 | PROJECT No. 16-54 | DRAWN BY: TD | CHECKED BY: GEF | SCALE: 1/4" = 1'
GREGORY BLASE FUSCO
PROFESSIONAL ENGINEER
PA-PE No. 036609-E
NJ PROFESSIONAL PLANNER No. 4076
KEY ENGINEERS, INC.
80 S. WHITE HORSE PIKE
BERLIN, NEW JERSEY 08009-2399
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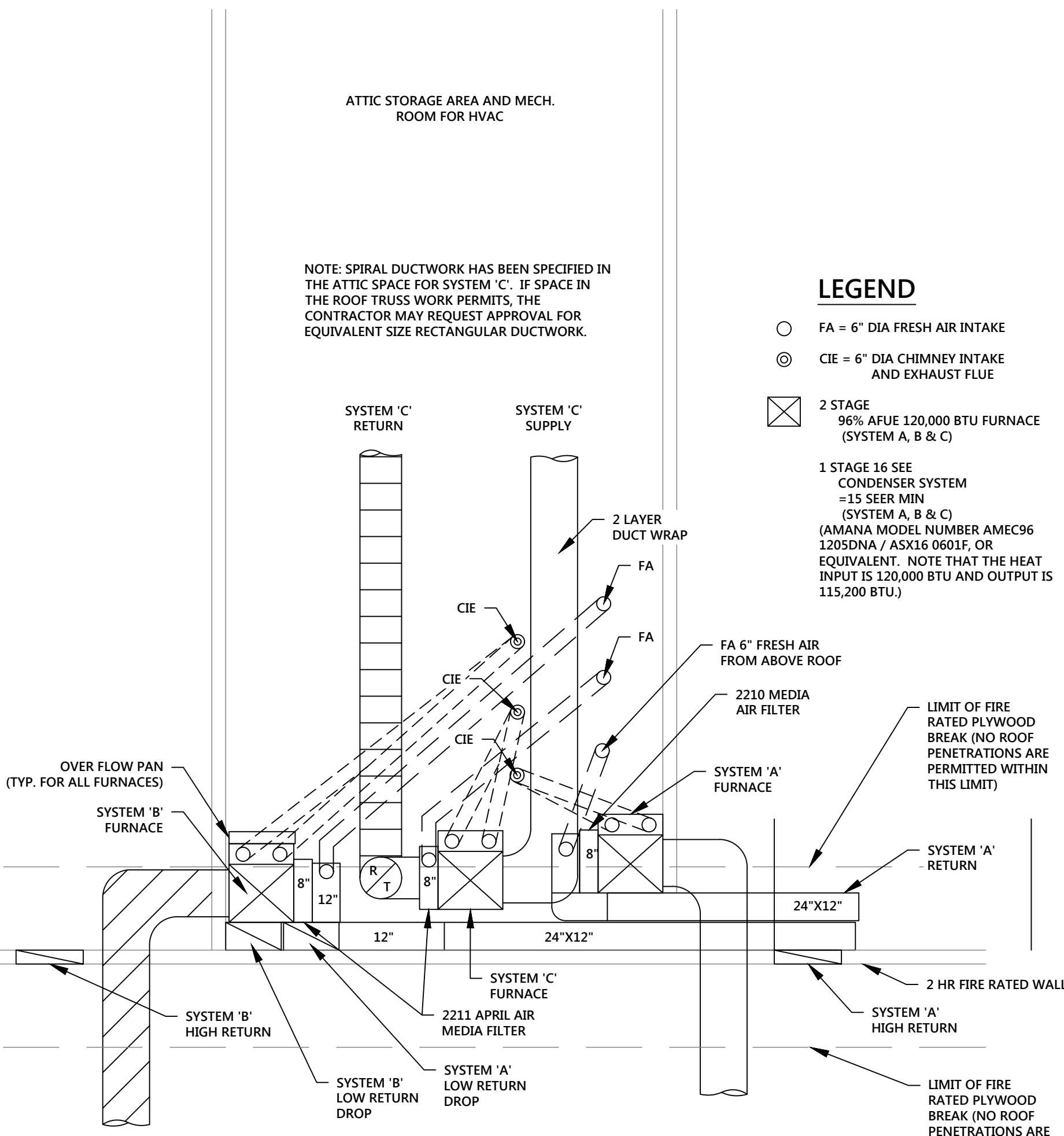
Project Title	
CAMDEN COUNTY CAMDEN COUNTY - PROPOSED MULTIPURPOSE BUILDING 508 LAKELAND ROAD BLACKWOOD, NEW JERSEY 08012-0088	
Drawing Title	
MECHANICAL FLOOR PLAN	
Scale	CAD File
Drawn	Contract No. 18869
Checked	Drawing No. M-101
Date	1 of 7
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H.V.A.C. Unit Schedule

UNIT	MANUFACTURER	HEAT INPUT/OUTPUT	COOLING CAPACITY	EFFICIENCY	BLOWER MOTOR	ELEC. DATA
A	YORK, LENNOX, AMANA OR EQUIVALENT	115,200/120,000 BTU/HA	5 TONS	16 SEER	1 HP (5 SPEED)	208/230 V, 1 PH, 60 HZ, 50 AMP
B	YORK, LENNOX, AMANA OR EQUIVALENT	115,200/120,000 BTU/HA	5 TONS	16 SEER	1 HP (5 SPEED)	208/230 V, 1 PH, 60 HZ, 50 AMP
C	YORK, LENNOX, AMANA OR EQUIVALENT	115,200/120,000 BTU/HA	5 TONS	16 SEER	1 HP (5 SPEED)	208/230 V, 1 PH, 60 HZ, 50 AMP



Roof Plan View
scale: 1/8" inch = 1 foot

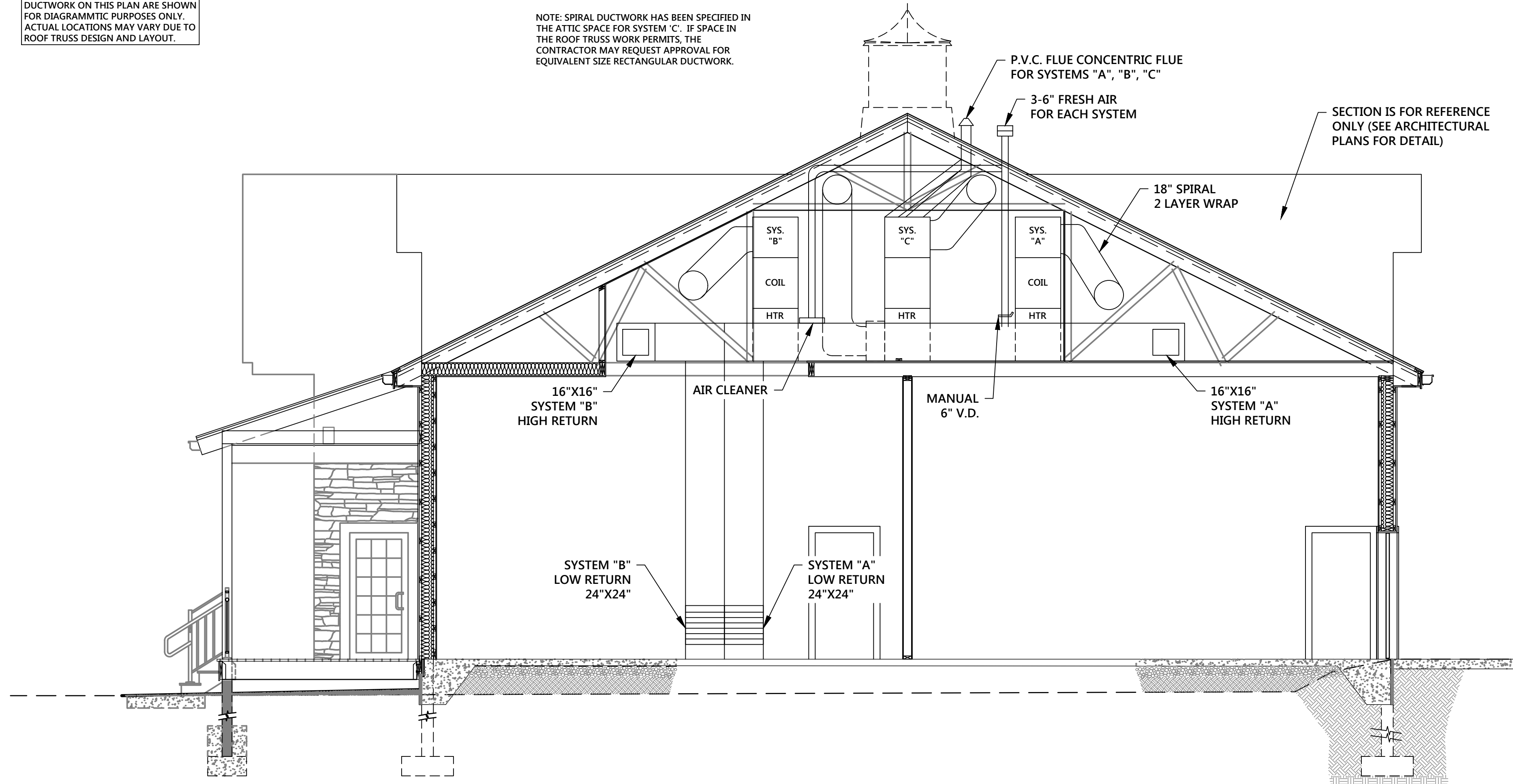


- NOTES:**
- SYSTEM A & B SUPPLY AND RETURN DUCTWORK SHALL BE PROVIDED WITH AUTOMATIC DYNAMIC FIRE DAMPERS HAVING A FIRE RATING OF 1.5HRS. ROUND SPIRAL DUCT SUPPLIES SHALL BE PROVIDED WITH MODEL 75CR-DY, 1 1/2" HR BY LLOYD INDUSTRIES OR EQUIVALENT. RETURN DUCTWORK SHALL BE PROVIDED WITH MODEL 75-DY, 1 1/2" HR BY LLOYD INDUSTRIES OR EQUIVALENT.
 - EACH H.V.A.C. UNIT SHALL BE PROVIDED WITH A METAL CONDENSATE PAN TOGETHER WITH A MAGNETIC CONDENSATE OVERFLOW SWITCH, AQUAGUARD AG-1100- OR EQUIVALENT.

Attic Plan View
not to scale

H.V.A.C. EQUIPMENT LOCATIONS AND DUCTWORK ON THIS PLAN ARE SHOWN FOR DIAGRAMMATIC PURPOSES ONLY. ACTUAL LOCATIONS MAY VARY DUE TO ROOF TRUSS DESIGN AND LAYOUT.

NOTE: SPIRAL DUCTWORK HAS BEEN SPECIFIED IN THE ATTIC SPACE FOR SYSTEM 'C'. IF SPACE IN THE ROOF TRUSS WORK PERMITS, THE CONTRACTOR MAY REQUEST APPROVAL FOR EQUIVALENT SIZE RECTANGULAR DUCTWORK.



Attic Elevation View
scale: 1/4" inch = 1 foot

ANCHOR POINT ARCHITECTURE
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REV. L. DATE: 09/23/19
REVISED FOR RE-BID PURPOSES
PROJECT No. 16-54
DATE: 08/10/19
SCALE: 1/4" = 1'
DRAWN BY: TD | CHECK BY: G.B.F.
PROFESSIONAL ENGINEER
GREGORY BLASE FUSCO
PA. #E No. 036608-E
NJ PROFESSIONAL PLANNER No. 4076
KEY ENGINEERS, INC.
80 S. WHITE HORSE PIKE
BERLIN, NEW JERSEY 08009-2399
PHONE (609) 762-4777
WWW.KEYENGINEERS.COM
CERTIFICATE OF AUTHORIZATION #24628041300

MECHANICAL DETAILS

Project Title
CAMDEN COUNTY
CAMDEN COUNTY - PROPOSED MULTIPURPOSE BUILDING
508 LAKELAND ROAD
BLACKWOOD, NEW JERSEY 08012-0088

Scale: CAD File
Drawn: Contract No. 18869
Checked: Drawing No. M-102
Date: M-102

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HOOD INFORMATION - Job#3752589

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	EXHAUST PLENUM RISER(S)							TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG.		
					WIDTH	LENG.	HEIGHT	DIA.	CFM	VEL.	S.P.			END TO END	RDW	
1		5424 ND-2-PSP-F	7' 0"	600 Deg.	1400			4'	12'	1400	1783	-0.826'	1125	430 SS Where Exposed	ALONE	ALONE

PERFORATED SUPPLY PLENUM(S)

HOOD NO.	TAG	POS.	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
							WIDTH	LENG.	DIA.	CFM	S.P.
1		Front	96'	14'	6'	MUA	10'	24'		562	0.172'
						MUA	10'	24'		562	0.172'

HOOD INFORMATION

HOOD NO.	TAG	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)				HOOD HANGING WGT			
		TYPE	QTY.	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY.	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM TYPE	SIZE		ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING
1		Captrate Solo Filter	5	16'	16'	85% See Filter Spec.	3	L55 Series E26	NO	Left	12"x54"x24"	Ansul R102	3.0	SC-111110FP	1 Light 1 Fan	YES	619 LBS

HOOD OPTIONS

HOOD NO.	TAG	OPTION
1		FIELD WRAPPER 18.00' High Front, Left, Right
		BACKSPASH 80.00' High X 96.00' Long X 100' Wide Insulated 430 SS Vertical
		RIGHT QUARTER END PANEL 23' Top Width, 0' Bottom Width, 23' High 430 SS
		INSULATION FOR BACK OF HOOD
		LEFT VERTICAL END PANEL 27' Top Width, 21' Bottom Width, 80' High Insulated 430 SS
		SENSOR-CV

Fire System Information - Job#3752589

FIRE SYSTEM NO.	Tag	TYPE	SIZE	MAX FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1		Ansul R102	3.0	11	Fire Cabinet Left	Left

GAS VALVE(S)

FIRE SYSTEM NO.	TAG	TYPE	SIZE	SUPPLIED BY
1		Mechanical	TBD	CaptiveAire Systems (or equivalent)

SPECIFICATIONS

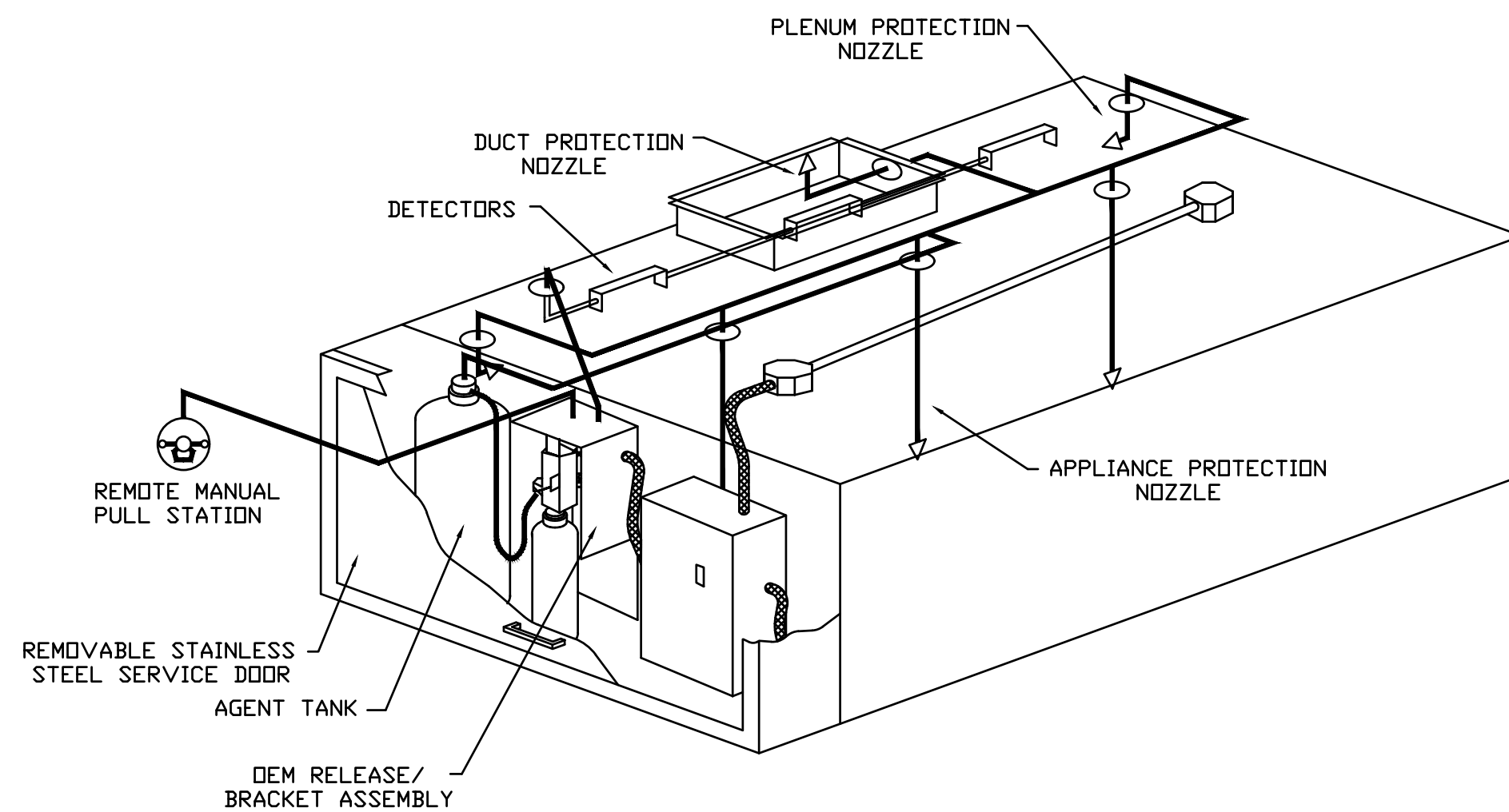
THE RESTAURANT FIRE SUPPRESSION SYSTEM SHALL BE THE PRE-ENGINEERED TYPE WITH A FIXED NOZZLE AGENT DISTRIBUTION NETWORK. IT SHALL BE LISTED WITH UNDERWRITERS LABORATORIES, INC. (UL) OR EQUIVALENT.

THE SYSTEM SHALL BE CAPABLE OF AUTOMATIC DETECTION AND ACTUATION WITH LOCAL OR REMOTE MANUAL ACTUATION. ACCESSORIES SHALL BE AVAILABLE FOR MECHANICAL OR ELECTRICAL GAS LINE SHUT-OFF APPLICATIONS.

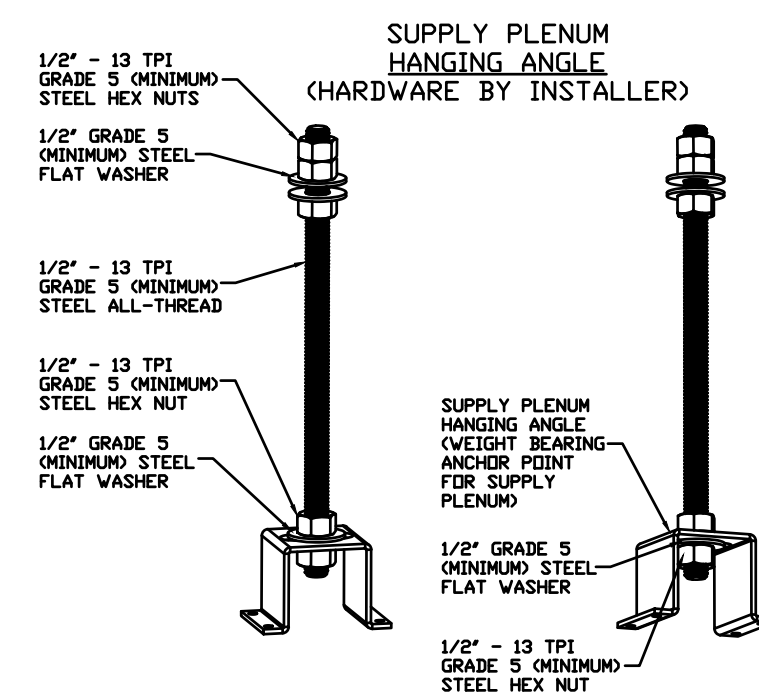
THE EXTINGUISHING AGENT SHALL BE A POTASSIUM CARBONATE, POTASSIUM ACETATE-BASED FORMULATION DESIGNED FOR FLAME KNOCKDOWN AND SECUREMENT OF GREASE RELATED FIRES. IT SHALL BE AVAILABLE IN PLASTIC CONTAINERS WITH INSTRUCTIONS FOR LIQUID AGENT HANDLING AND USAGE.

THE REGULATED RELEASE MECHANISM SHALL BE COMPATIBLE WITH A FUSIBLE LINK DETECTION SYSTEM. THE FUSIBLE LINK SHALL BE SELECTED AND INSTALLED ACCORDING TO THE OPERATING TEMPERATURE IN THE VENTILATING SYSTEM. THE FUSIBLE LINK SHALL BE SUPPORTED BY A DETECTOR BRACKET/LINKAGE ASSEMBLY.

UPON ACTIVATION OF THE FIRE SUPPRESSION SYSTEM, THE MAKE-UP AIR FAN CONNECTED TO THE SYSTEM MUST SHUT DOWN, POWER TO ALL APPLIANCES AND OUTLETS UNDER THE HOOD MUST SHUT OFF, THE ASSOCIATED EXHAUST FAN MUST CONTINUE TO RUN, AND THE GAS SUPPLY TO THE APPLIANCES MUST BE INTERRUPTED.

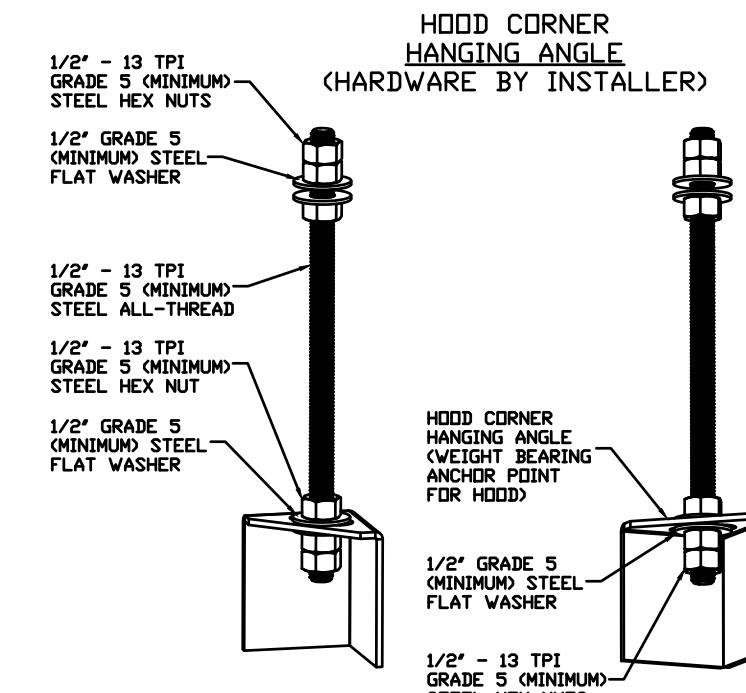


TYPICAL ANSUL R-102 SYSTEM LAYOUT



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR PSP HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLID FILTER (OR EQUIVALENT)

THE CAPTRATE GREASE-STOP SOLID FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

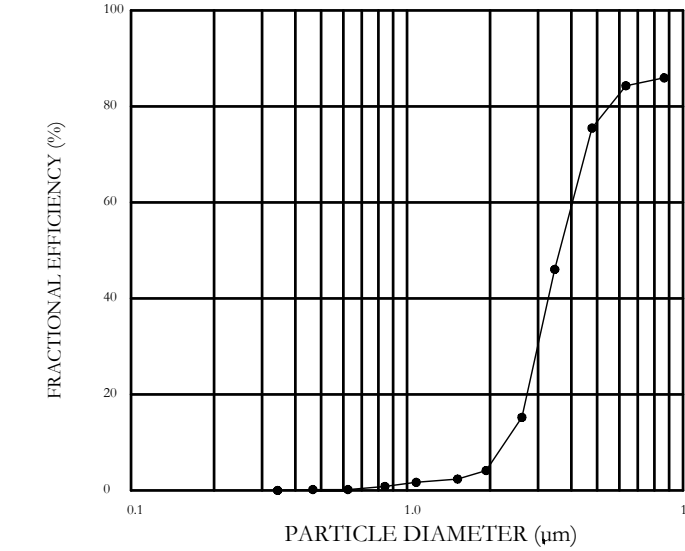
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

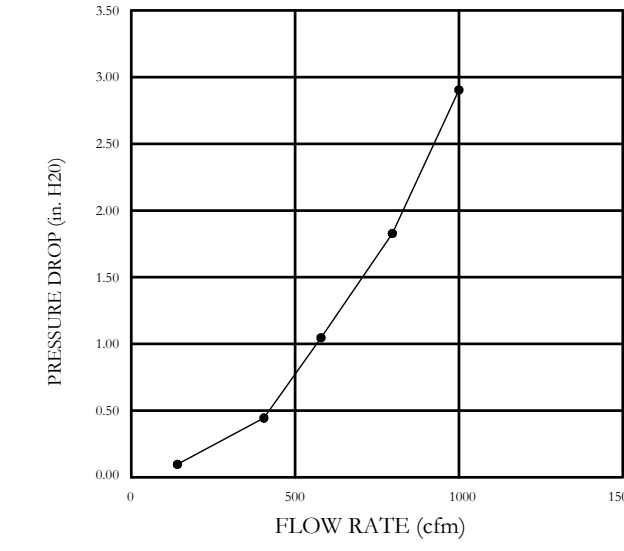
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLID WAS TESTED TO ASTM STANDARD ASTM F2519-05.

EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:

- NFPA #96
- NSF STANDARD #2
- UL STANDARD #1046
- INT. MECH. CODE (IMC)
- ULC-S649



PLEASE NOTE: THE HOOD MAY BE INSTALLED WITH A 0 INCH CLEARANCE TO COMBUSTIBLE MATERIALS IF CONSTRUCTED IN ONE OF THE FOLLOWING METHODS:
 1 INCH LAYER OF INSULATION (TYPE 475) OWENS CORNING, JOHNS MANVILLE, OR 3M FIRE WRAP
 1 INCH INSULATED BACKSPASH BACK-RETURN (BR) SUPPLY PLENUM WITH 1 INCH LAYER OF INSULATION
 THESE RATINGS APPLY TO TOP, ENDS, BACK AND FRONT OF THE EXHAUST HOOD

PLEASE NOTE: THE HOOD MAY BE INSTALLED WITH A 3 INCH CLEARANCE TO LIMITED COMBUSTIBLE MATERIALS IF CONSTRUCTED IN ONE OF THE FOLLOWING METHODS:
 3 INCH FACTORY INSTALLED REAR UN-INSULATED STANDOFF
 3 INCH FACTORY INSTALLED TOP WRAPPER / ENCLOSURE SYSTEM
 3 INCH FACTORY INSTALLED END STANDOFF BACK-RETURN (BR) SUPPLY PLENUM
 THESE RATINGS APPLY TO TOP, ENDS, BACK AND FRONT OF THE EXHAUST HOOD

FOR QUESTIONS, CALL THE:
 NJ, DE, PA SALES DIVISION
 560 STOKES ROAD MEDFORD, NJ 08055
 PHONE: (866) 654-8368
 FAX: (919) 747-5604

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH

NFPA #96 - 2014 EDITION
 ETL LISTED TO UL-710 REQUIREMENTS
IMC 2012

FOR QUESTIONS, CALL
 JEFF ERRICKSON OR STEVE BARGFREDE
 S. NJ & DELAWARE SALES OFFICE
 560 STOKES ROAD SUITE 13A7, MEDFORD NJ 08055
 PHONE: (609) 654-8368
 FAX: (919) 747-5604

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DATE: 08/10/19 | PROJECT NO: 16-54 | DRAWN BY: J.D. CUNEO | CHECKED BY: G.E.F. | SCALE: AS NOTED

GREGORY BLASE FUSCO
 PROFESSIONAL ENGINEER
 NJ PROFESSIONAL PLANNER No. 4076

PA-PE No. 036609-E

KEY ENGINEERS, INC.
 80 S. WHITE HORSE PIKE
 BERLIN, NEW JERSEY 08009-2389
 CERTIFICATE OF AUTHORIZATION #246428041500

Project Title
CAMDEN COUNTY
 CAMDEN COUNTY - PROPOSED MULTIPURPOSE BUILDING
 508 LAKELAND ROAD
 BLACKWOOD, NEW JERSEY 08012-0088

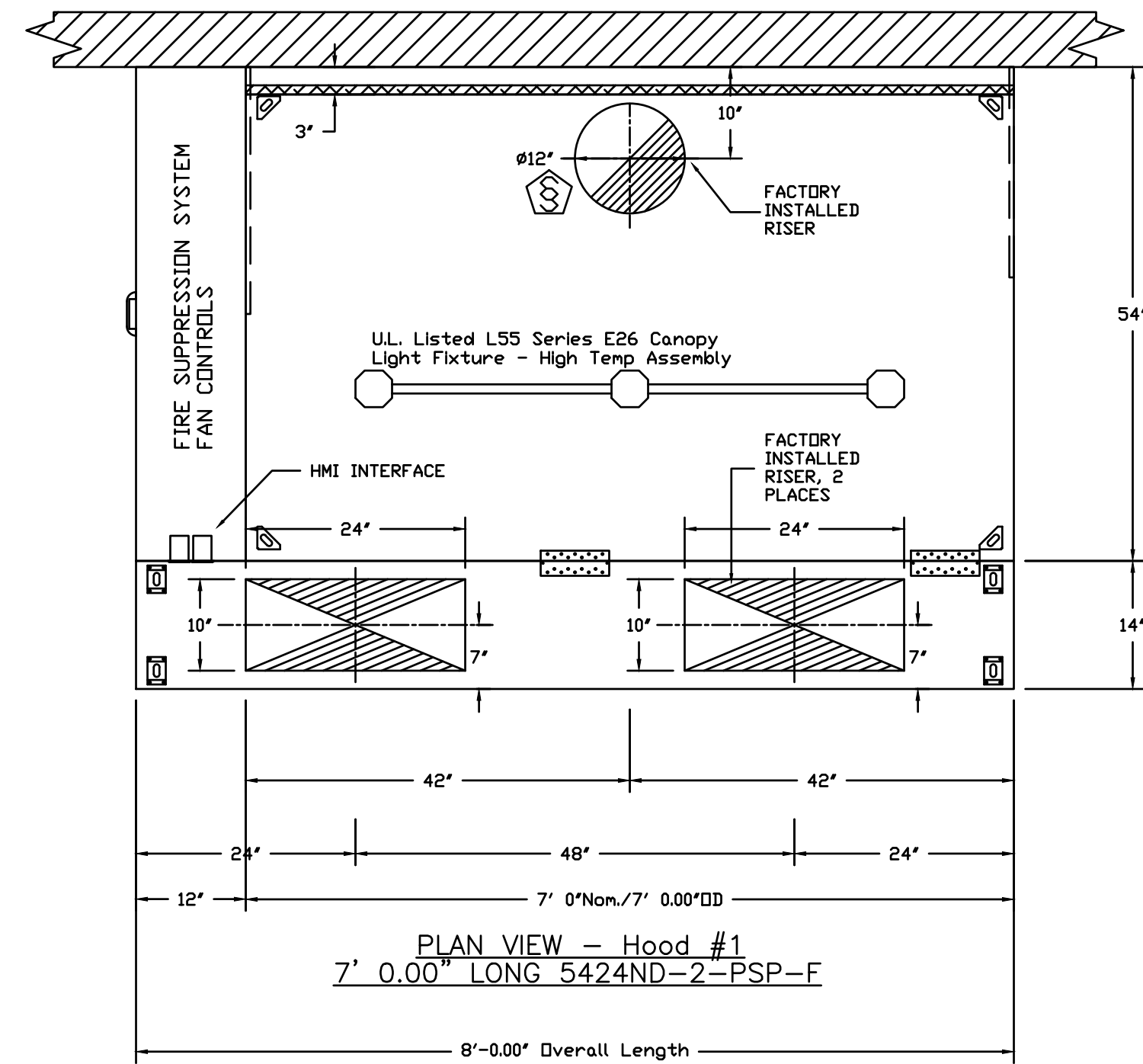
Restroom Hood Fire
SUPPRESSION SYSTEM DETAIL 1

Scale
 CAD File

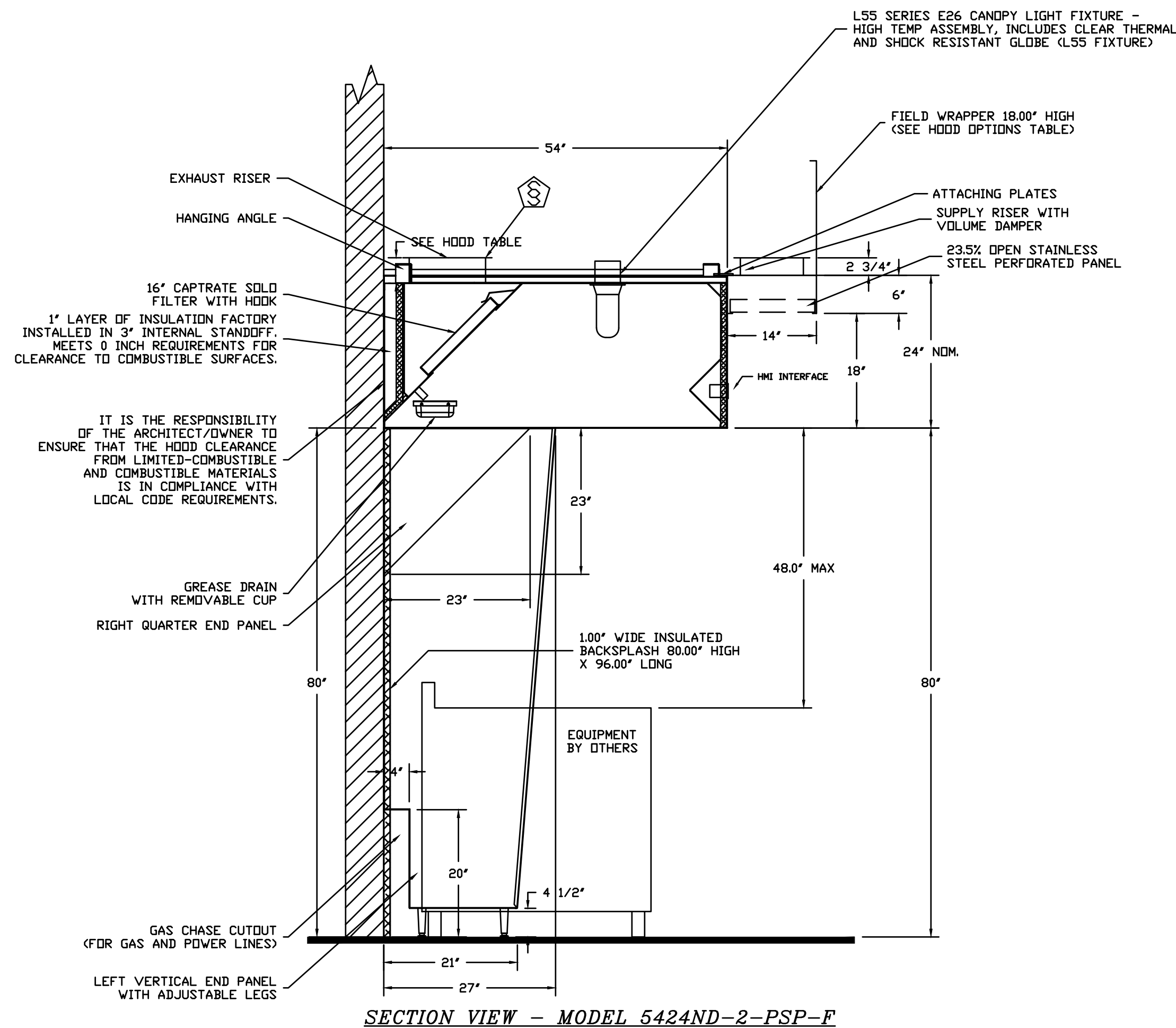
Drawn
 Contract No. 18869

Checked
 Drawing No. M-103

Date
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VERIFY CEILING HEIGHT
14'-7" BOTTOM OF TRUSS CORD
9'-6" SUSPENDED CEILING
Height required to verify that the hood
will fit and to size the enclosure panels



EXHAUST FAN INFORMATION - Job#3752589

FAN UNIT NO.	TAG	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS.)	SONES
1		DUB5HFA	1400	1.150	1268	0.750	0.4030	1	115	8.8	443 FPM	92	13.8

MUA FAN INFORMATION - Job#3752589

FAN UNIT NO.	TAG	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	WEIGHT (LBS.)	SONES	BURNER EFFICIENCY(%)
2		A1-D.250-15D	15MF-1-MDD	A1-D.250	1000	1125	0.375	1339	1.000	0.3680	1	115	10.2	608	10.4	92

GAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO.	TAG	INPUT BTUs	OUTPUT BTUs	TEMP. RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE
2		75476	69438	58 deg F	7 in. w.c. - 14 in. w.c.	Natural

FAN OPTIONS

FAN UNIT NO.	TAG	OPTION (Qty. - Descr.)
1		1 - Grease Box 1 - ECM Wiring Package-Exhaust - Manual or 0-10VDC Reference Speed Control (NIDEC Motor)
2		1 - Motorized Backdraft Damper for A1-D Housing 1 - Low Fire Start 1 - Inlet Pressure Gauge, 0-35" 1 - Manifold Pressure Gauge, -5 to 15" wc 1 - ECM Wiring Package-Supply - Manual or 0-10VDC Reference Speed Control (NIDEC Motor)

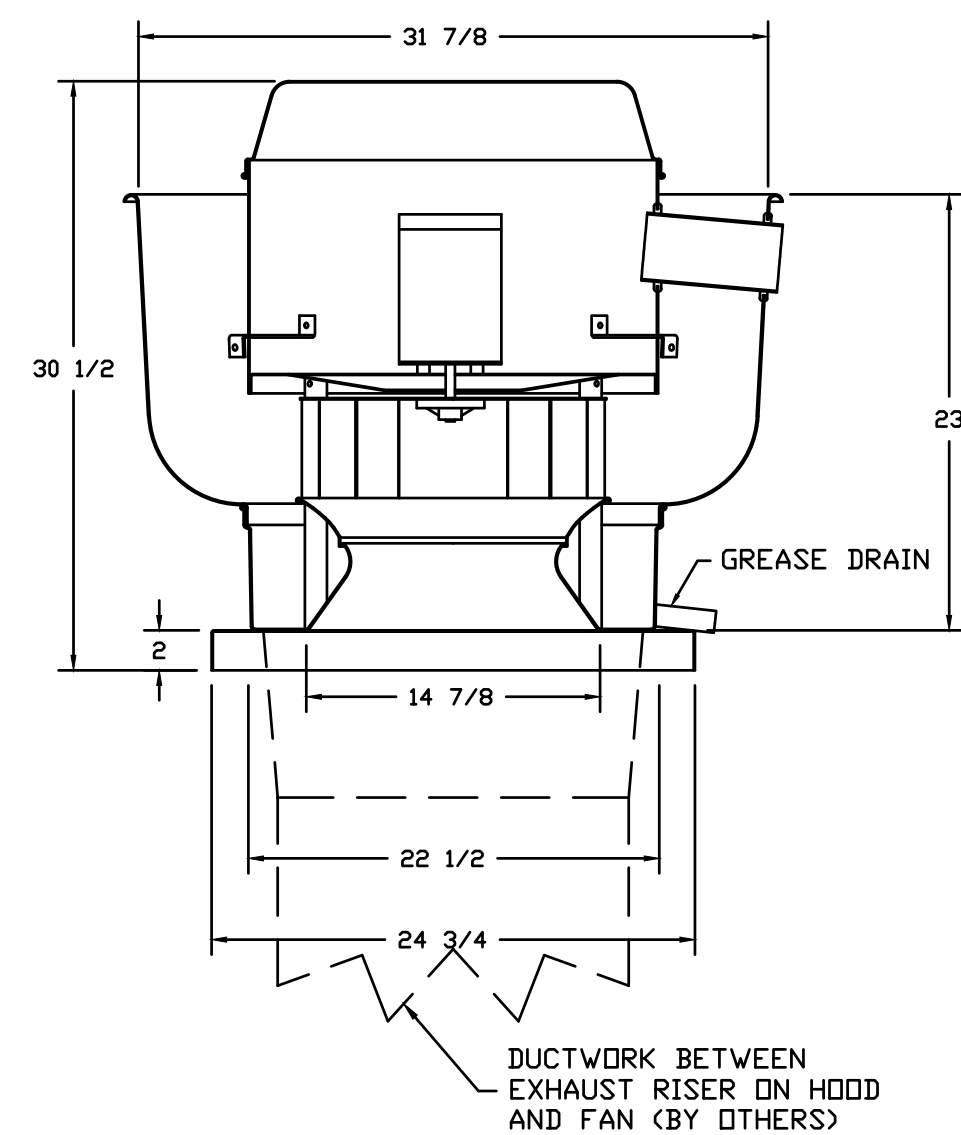
FAN ACCESSORIES

FAN UNIT NO.	TAG	EXHAUST				SUPPLY		
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1		YES					YES	
2								

CURB ASSEMBLIES

NO.	ON FAN	WEIGHT	ITEM	SIZE
1	# 1	36 LBS	Curb	23.000"W x 23.000"L x 20.000"H 1.000:12.000 Pitch Vented Hinged
2	# 2	63 LBS	Curb	21.000"W x 71.000"L x 20.000"H 1.000:12.000 Pitch Along Width, Right Insulated

FAN #1 DUB5HFA - EXHAUST FAN



FEATURES:

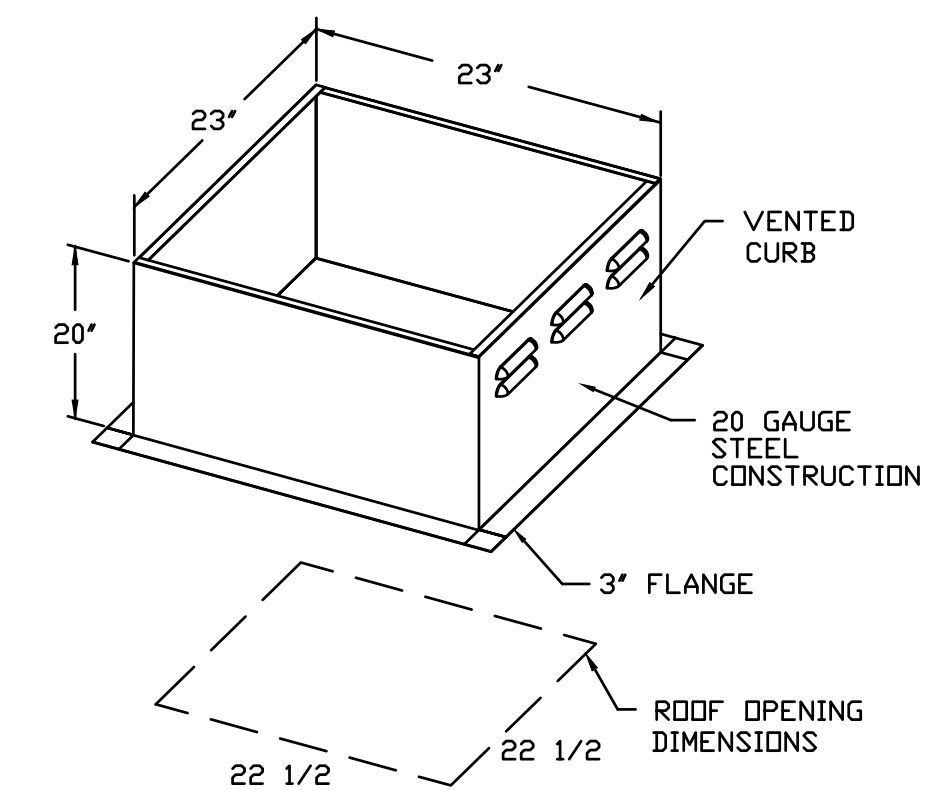
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL
- INTERNAL WIRING
- WEATHERPROOF DISCONNECT
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE)
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

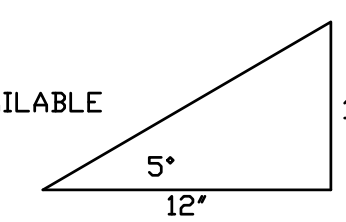
ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

- GREASE BOX.
- ECM WIRING PACKAGE-EXHAUST - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL (NIDEC MOTOR).



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.
SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE



VERIFY ROOF PITCH
6:12

Pitch required to correctly construct fan curbs



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DATE: 06/10/19 | PROJECT NO: 16-54 | DRAWING BY: TD | CHECKED BY: G.B.F. | SCALE: AS NOTED

GREGORY BLASE FUSCO
PROFESSIONAL ENGINEER
NJ PROFESSIONAL PLANNER No. 4076
NJPE No. 32853
PA-PE No. 036609-E

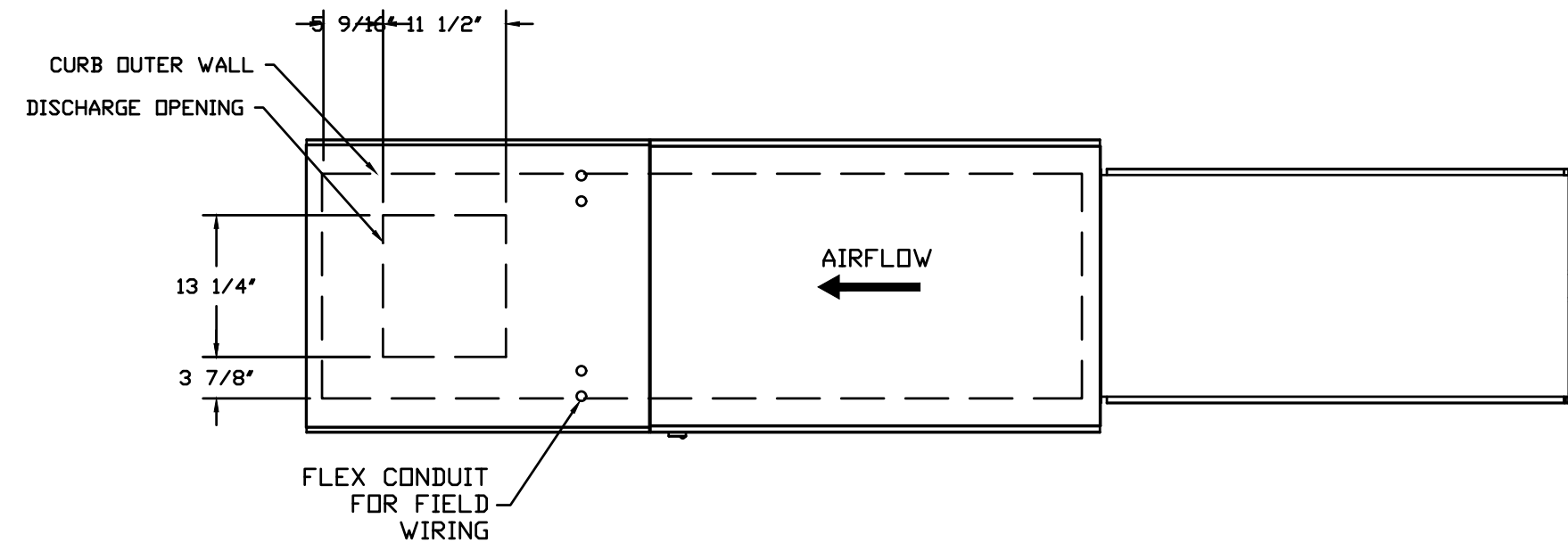
KEY ENGINEERS, INC.
80 S. WHITE HORSE PIKE
BERLIN, NEW JERSEY 08009-2389
CERTIFICATE OF AUTHORIZATION #24628041300

CAMDEN COUNTY
CAMDEN COUNTY - PROPOSED MULTIPURPOSE BUILDING
508 LAKELAND ROAD
BLACKWOOD, NEW JERSEY 08012-0088

RESTAURANT HOOD FIRE SUPPRESSION SYSTEM DETAIL 2

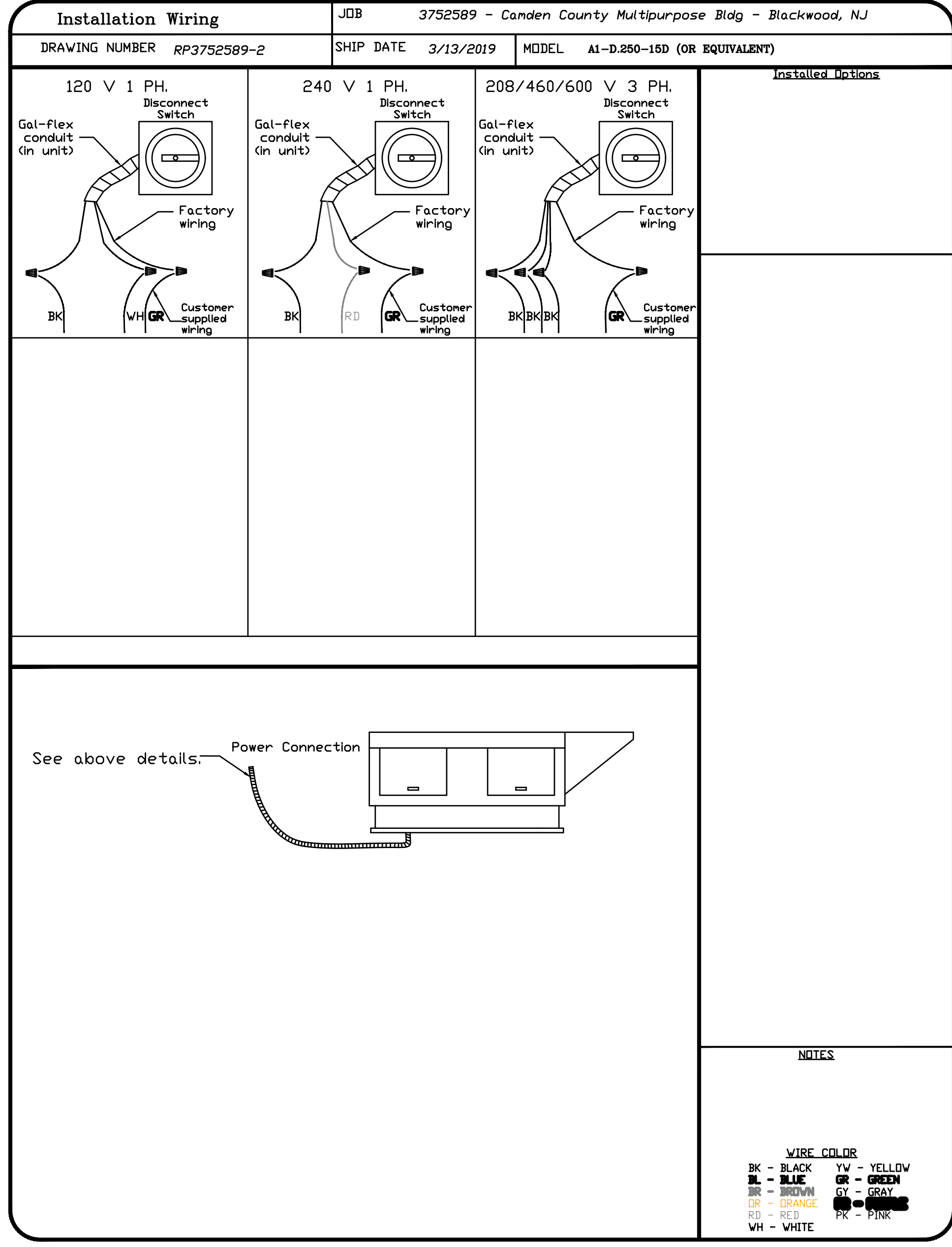
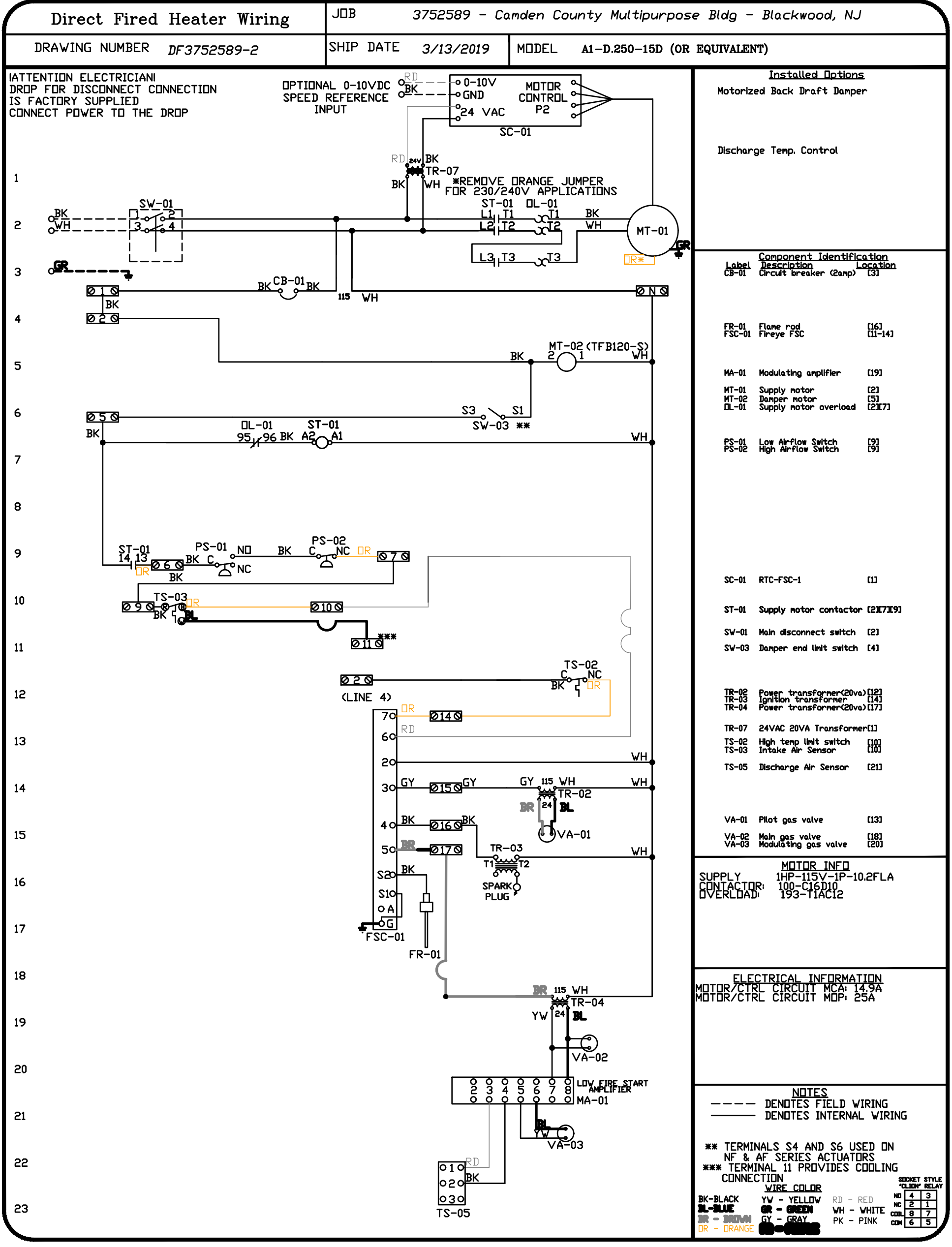
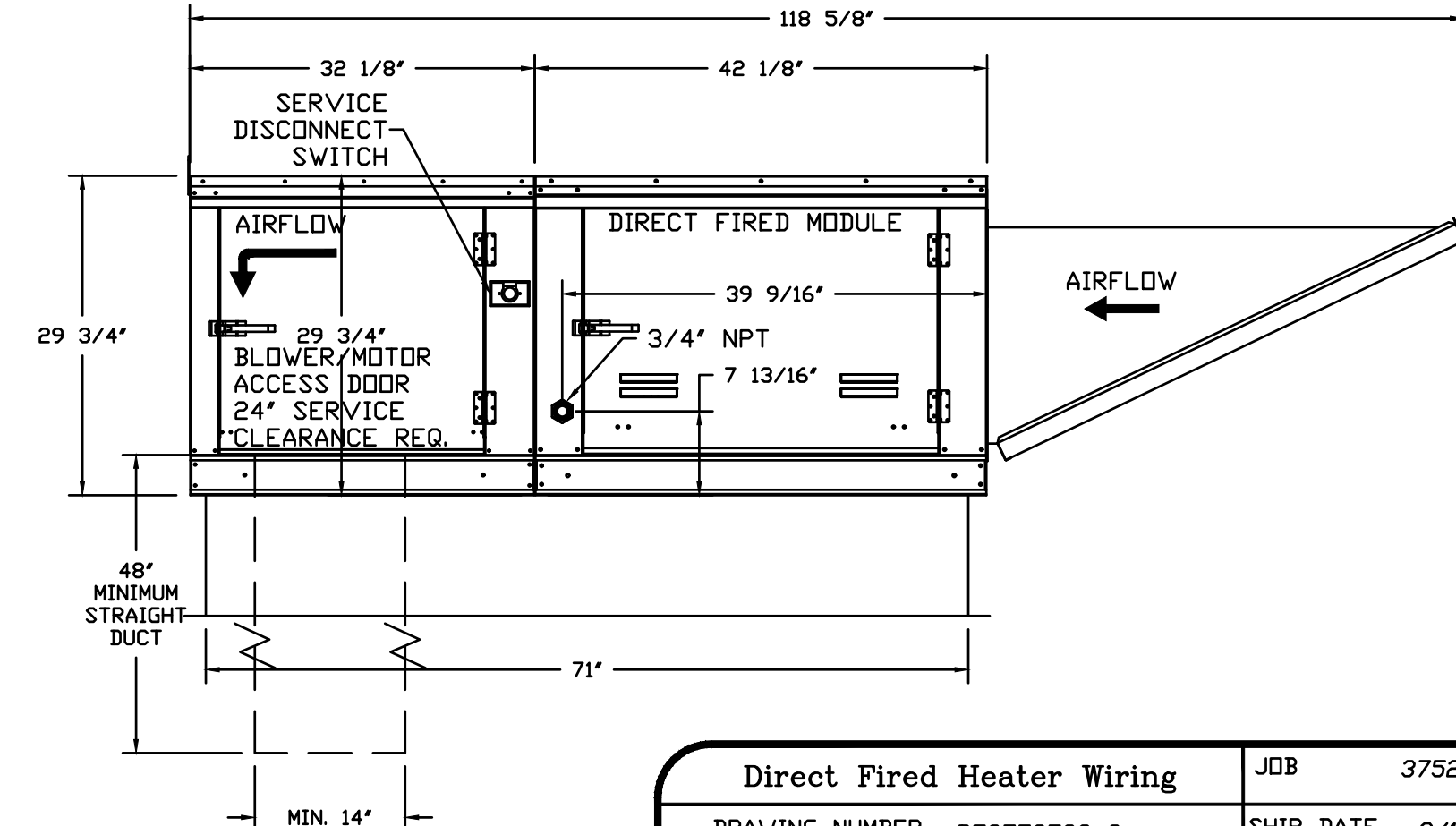
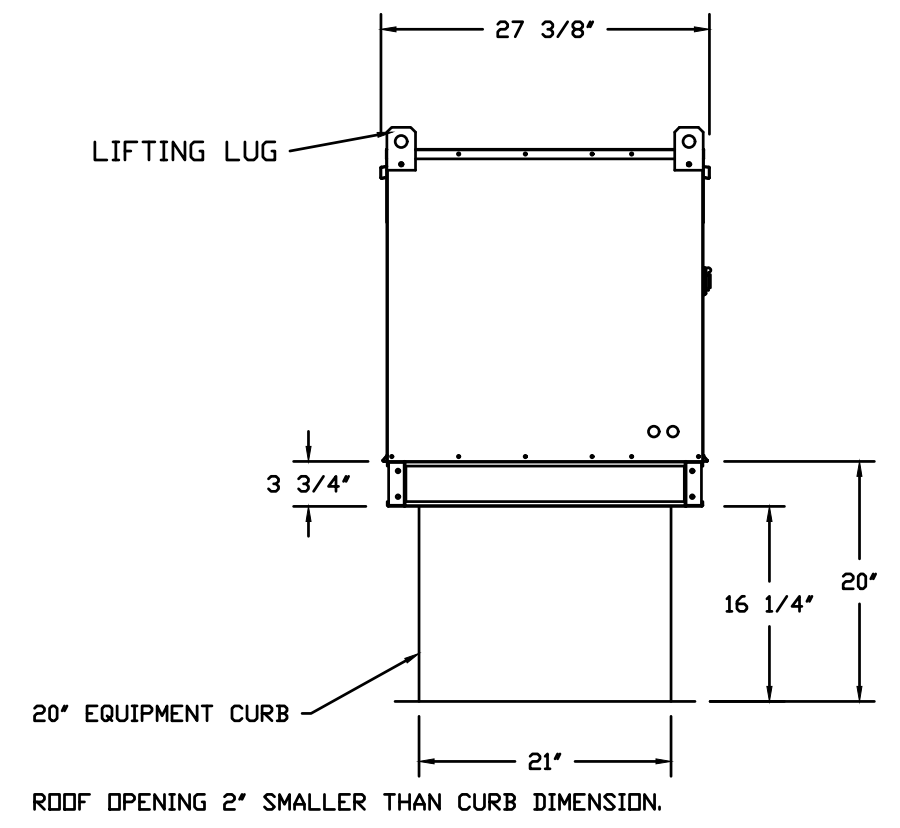
Scale: CAMDEN COUNTY
Drawing No. M-104
Contract No. 18869
Date: _____
Checked: _____
Drawn: _____

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FAN #2 A1-D.250-15D - HEATER
 1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 15' DIRECT DRIVE FAN
 2. INTAKE HOOD WITH EZ FILTERS
 3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT
 4. MOTORIZED BACK DRAFT DAMPER 16" X 18" FOR SIZE 1 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, TRIPDS ACTUATOR INCLUDED
 5. LOW FIRE START. ALLOWS THE BURNER CIRCUIT TO ENERGIZE WHEN THE MODULATION CONTROL IS IN A LOW FIRE POSITION.
 6. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE
 7. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC, 2.5" DIAMETER, 1/4" THREAD SIZE
 8. ECM WIRING PACKAGE AND MANUAL DR 0-10VDC CONTROL FOR SUPPLY ECM MOTORS. RTC CONTROLLER. **DO NOT ORDER UNDER WARRANTY, SEE PART NUMBER 'ECM-VCU-RTC'**.
 NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE UNLESS OTHERWISE SPECIFIED. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 14" X 14" X 48' LONG.

SUPPLY SIDE HEATER INFORMATION:
 WINTER TEMPERATURE = 17°F. TEMP. RISE = 58°F.
 BTUS CALCULATED OFF ACTUAL AIR DENSITY
 OUTPUT BTUS AT ALTITUDE OF 0.0 Ft. = 69709
 INPUT BTUS AT ALTITUDE OF 0.0 Ft. = 75771
 OUTPUT BTUS AT ALTITUDE OF 108 Ft. = 69438
 INPUT BTUS AT ALTITUDE OF 108 Ft. = 75476



ANCHOR POINT ARCHITECTURE

Di Prinzi • Criniti • Desper

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 Philadelphia: Philadelphia, PA 19103
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DATE: 08/07/19 | PROJECT No. 16-54 | DRAWN BY: TD | CHECK BY: GEF | SCALE: AS NOTED

GREGORY BLASE FUSCO
 PROFESSIONAL ENGINEER
 NJPE No. 32853
 NJ PROFESSIONAL PLANNER No. 4076

PAPE No. 036609-E
 NU PROFESSIONAL PLANNER No. 4076

KEY ENGINEERS, INC.
 Phone: (609) 782-9777
 80 S. WHITE HORSE PIKE
 BERLIN, NEW JERSEY 08009-2389
 CERTIFICATE OF AUTHORIZATION #24628041300

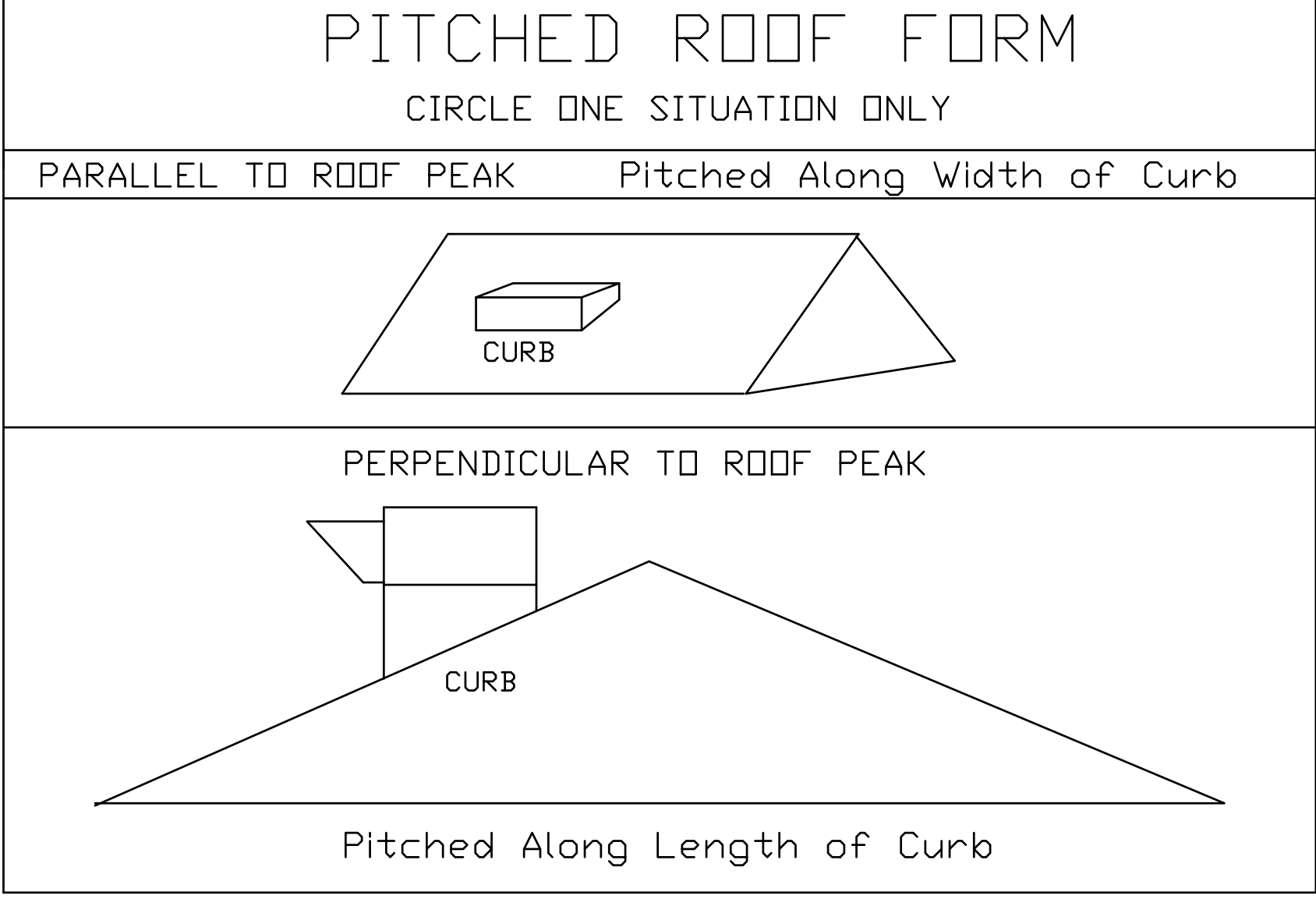
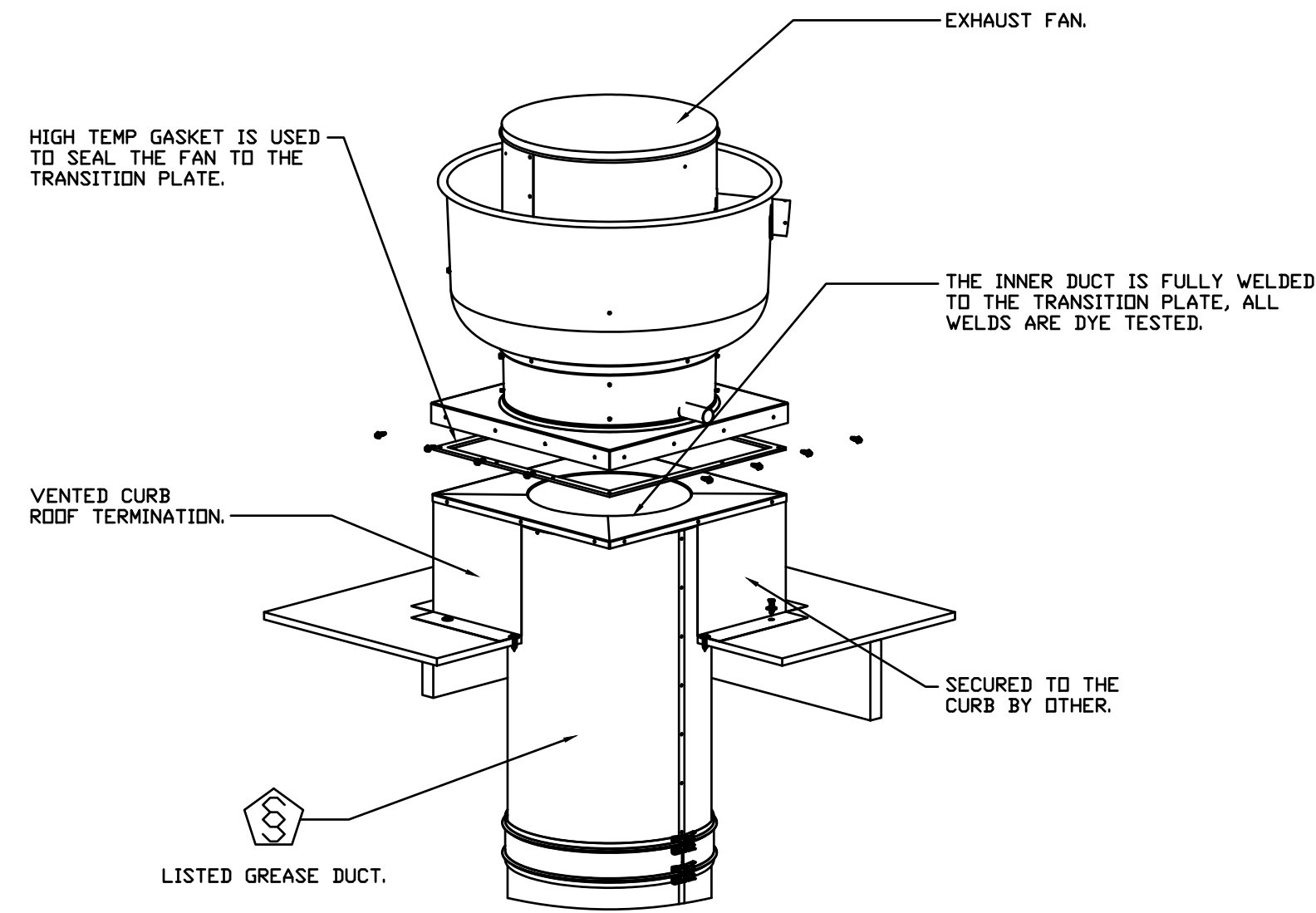
Project Title: **CAMDEN COUNTY - PROPOSED MULTIPURPOSE BUILDING**
 508 LAKELAND ROAD
 BLACKWOOD, NEW JERSEY 08012-0088

RESTAURANT HOOD FIRE SUPPRESSION SYSTEM DETAIL 3

Scale: CAD File
 Drawn: Contract No. 18869
 Checked: Drawing No. M-105
 Date: 5 of 7

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§ GREASE DUCT & CHIMNEY SPECIFICATIONS:
 PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL 'DW'
 ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL 'DW'
 IS LISTED TO UL-1978 AND IS INSTALLED USING 'V' CLAMP LOCKING
 CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL 'DW'
 DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER
 THE MANUFACTURER'S INSTALLATION GUIDE.
 PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER.
 PER MANUFACTURER'S LISTING MODEL 'DW' HORIZONTAL RUNS LESS THAN 75 FT. CAN BE
 SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12".
 DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE
 ACCUMULATION IN HORIZONTAL RUNS.
 IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE
 UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY
 EQUAL TO CAPTIVEAIRE SYSTEMS MODEL 'DW- 2R, 2R TYPE HT, 3R, OR 3Z' ROUND 20 GAUGE
 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.



VERIFY ROOF PITCH
6:12
 Pitch required to correctly construct fan curbs

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DATE: 08/07/19 | PROJECT No. 16-54 | DRAWN BY: TD | CHECK BY: GEF | SCALE: AS NOTED
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Project Title
CAMDEN COUNTY
 CAMDEN COUNTY - PROPOSED MULTIPURPOSE BUILDING
 508 LAKELAND ROAD
 BLACKWOOD, NEW JERSEY 08012-0088
RESTAURANT HOOD FIRE
SUPPRESSION SYSTEM DETAIL 4
 Drawing Title

Scale	CAD File
Drawn	Contract No. 18869
Checked	Drawing No. M-106
Date	6 of 7

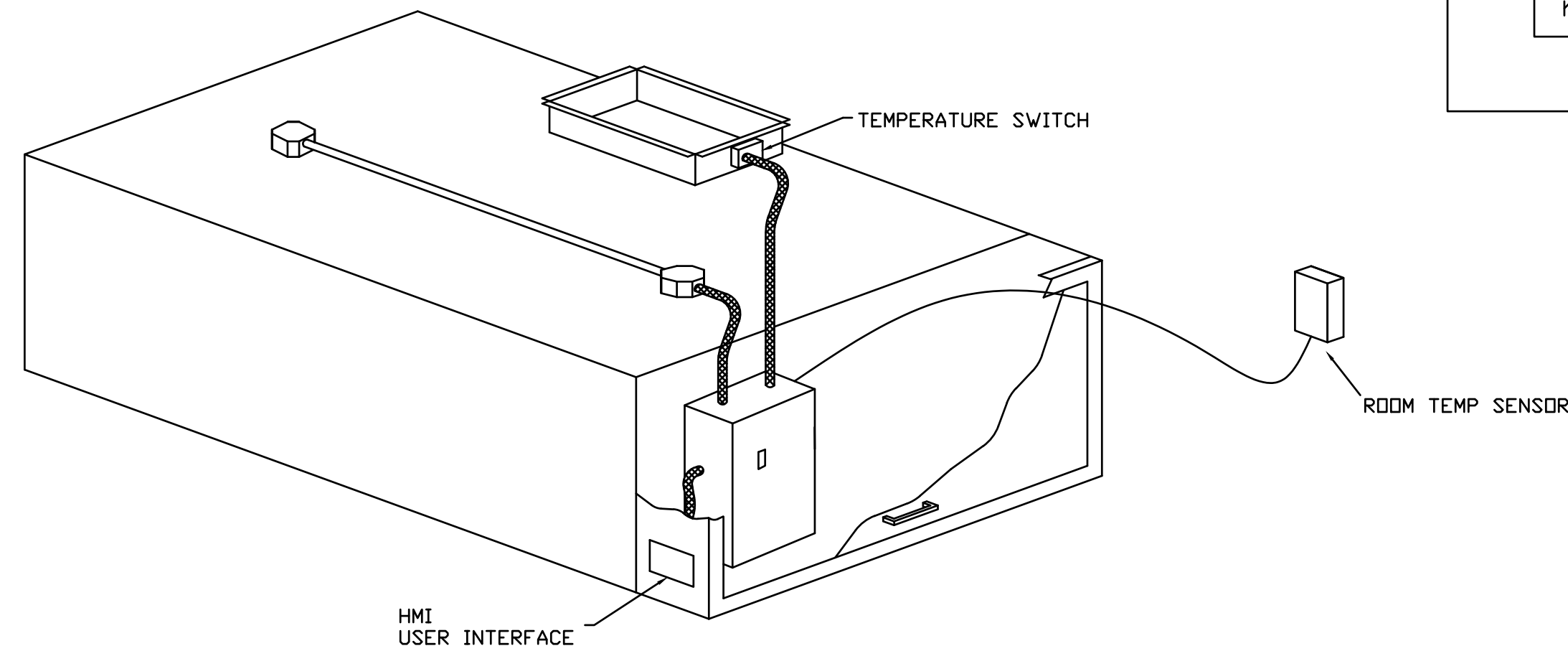
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ELECTRICAL PACKAGE - Job#3752589

NO.	TAG	PACKAGE #	LOCATION	SWITCHES		OPTIION	FANS CONTROLLED									
				LOCATION	QUANTITY		TYPE	Ø	HP.	VOLT	FLA					
1		SC-111110FP	Utility Cabinet Left	03 - Utility Cabinet Lefts Hood # 1	1 Light 1 Fan	Smart Controls Thermostatic Control	Exhaust	1	0.750	115	8.8	Supply	1	1.000	115	10.2

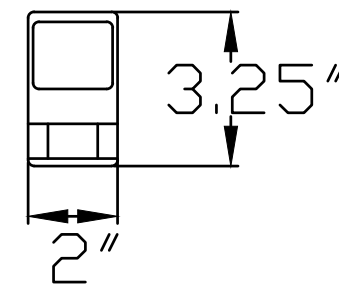
Duct mounted thermostats for use in automatically activating fans whenever cooking appliances are being used.

Switch closes on temperature rise. One thermostat and temerature controller per exhaust riser.

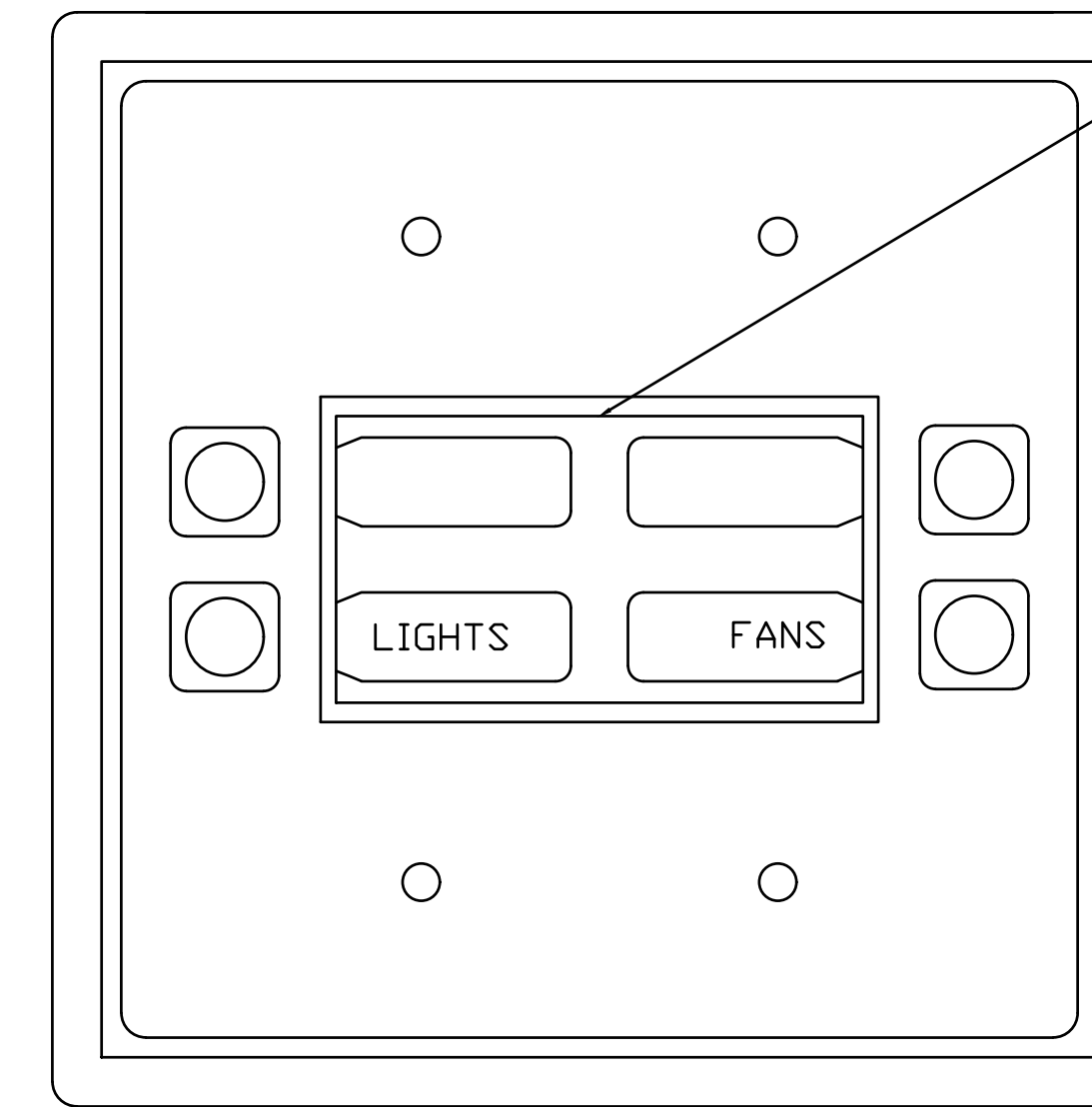


TYPICAL CONTROL PANEL (CABINET MOUNT)

Room Override Thermostat

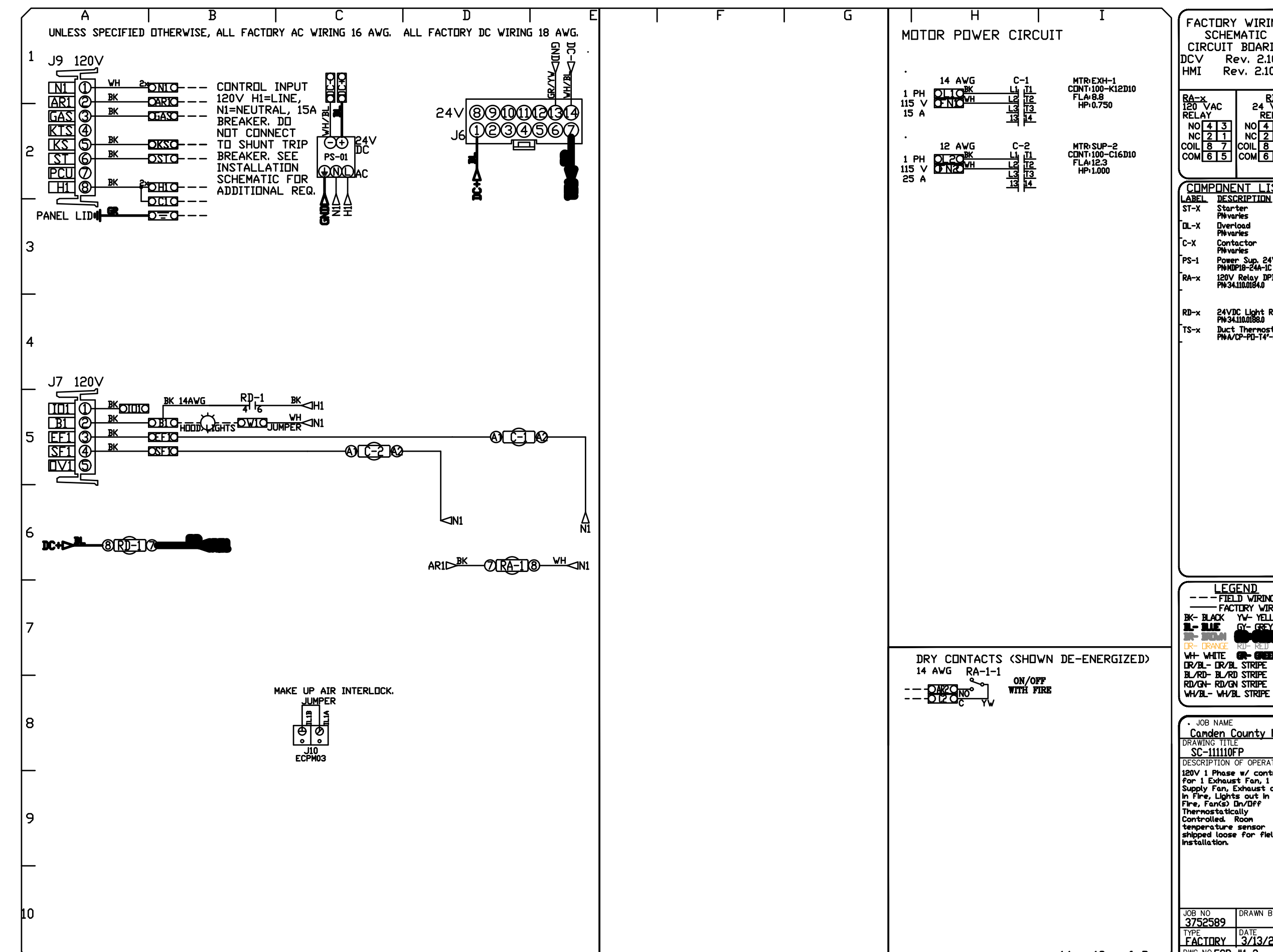
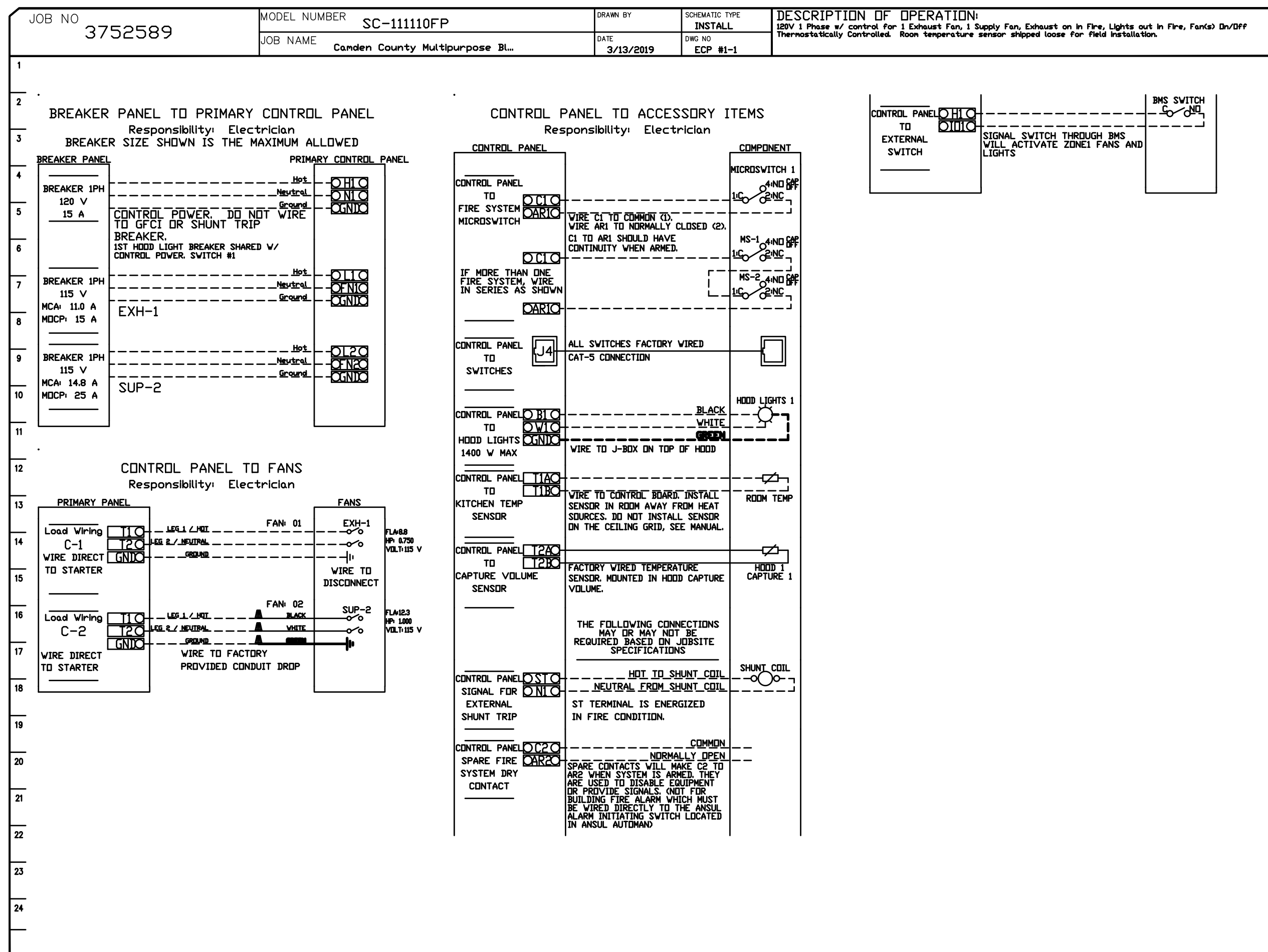


Provides room override based on temperature differential between the room and duct. Install on a wall in space but not directly under the hood or close to an appliance so the reading is accurate for space.



ALARM INDICATING LCD SCREEN. BUTTON FUNCTIONS VARY BY MODEL TYPE.

TOUCH SCREEN INTERFACE



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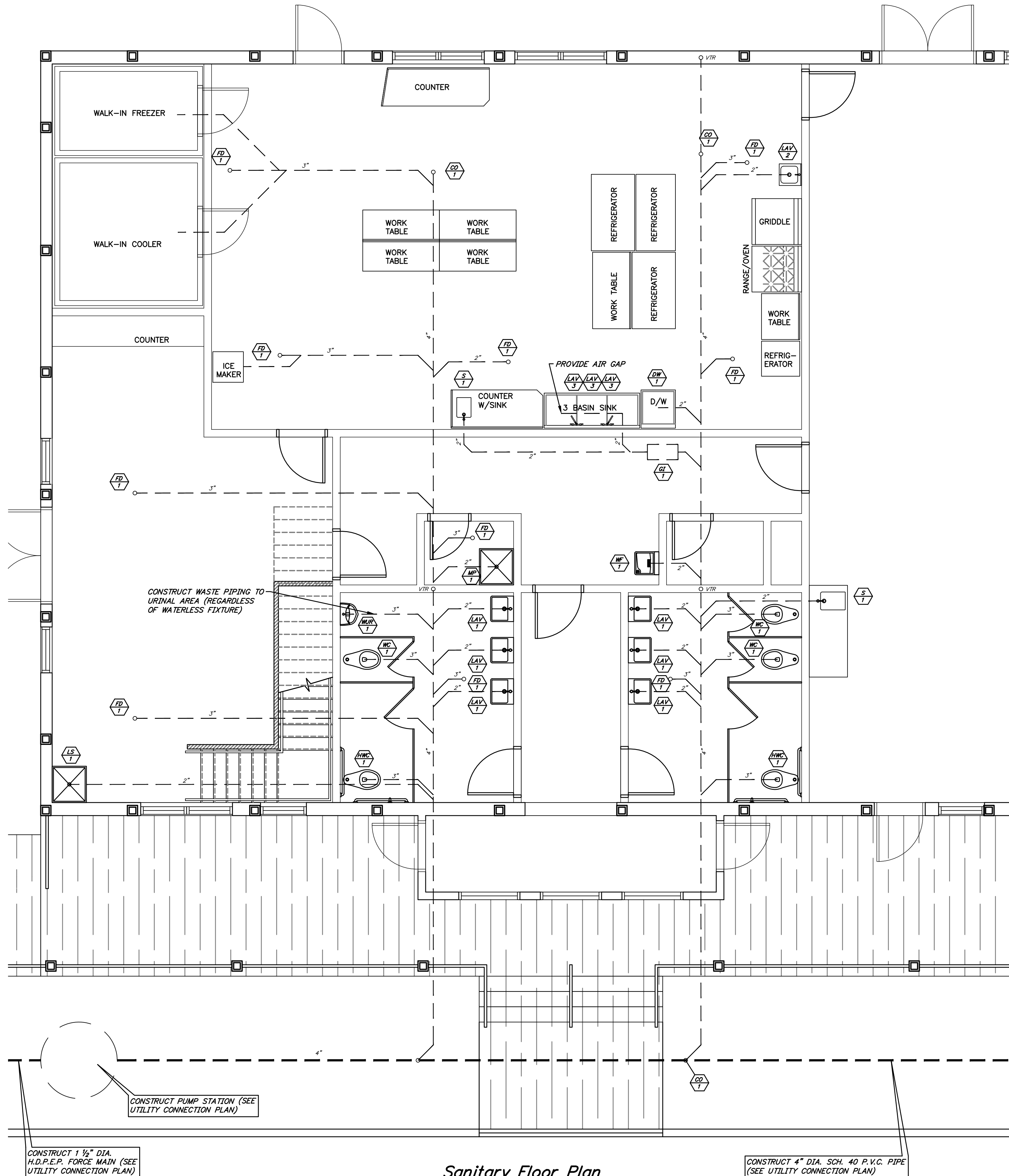
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CAMDEN COUNTY
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 508 LAKELAND ROAD
 BLACKWOOD, NEW JERSEY 08012-0088

RESTAURANT HOOD FIRE SUPPRESSION SYSTEM DETAIL 5

Scale: CAD File
 Drawn: Contract No. 18869
 Checked: Drawing No. M-107
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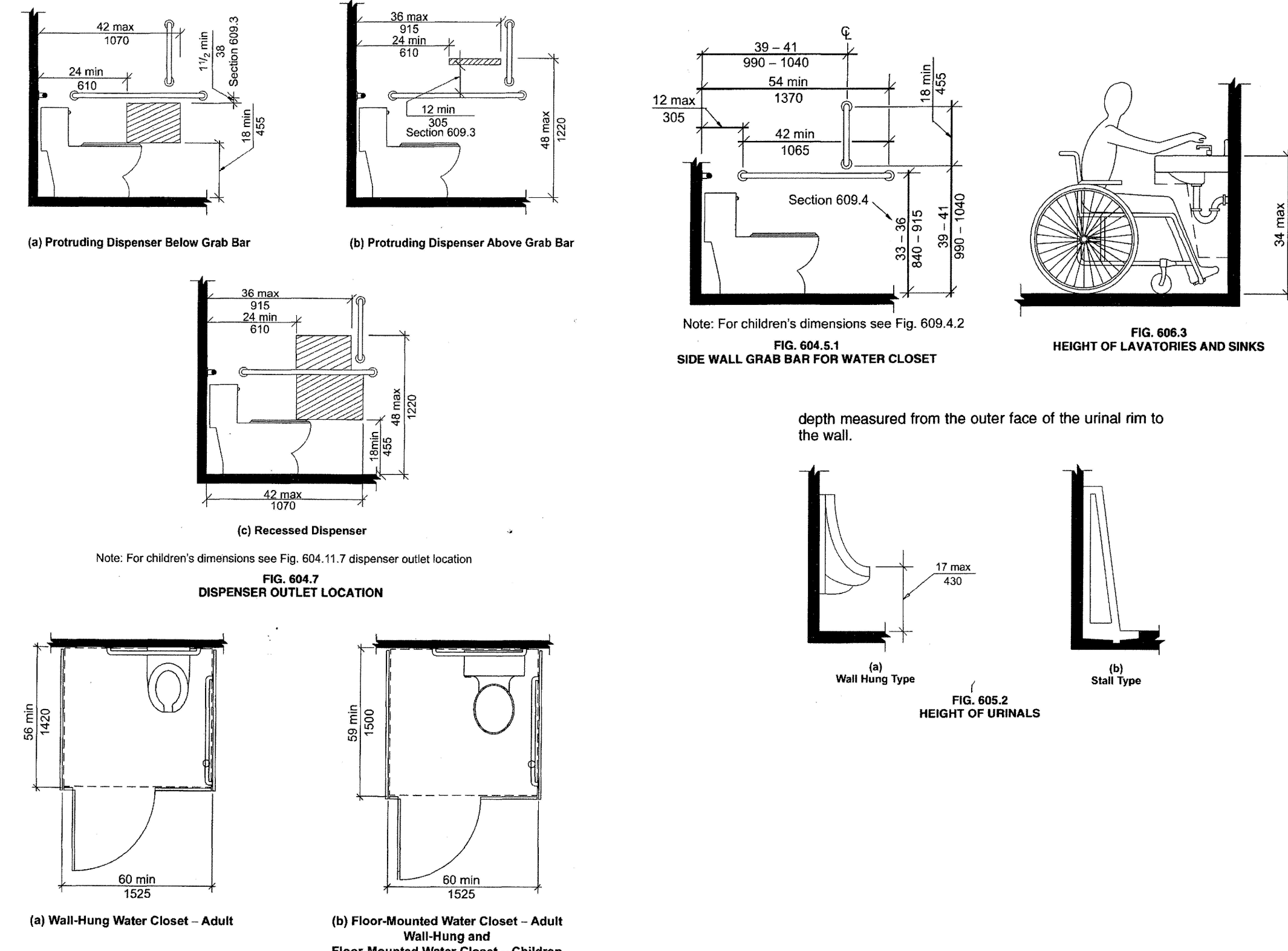
Sanitary Floor Plan
scale: 1/4" = 1'

General Notes – Plumbing

1. INSTALL PLUMBING FIXTURES NOTED AS "EQUIPPED & INSTALLED FOR HANDICAPPED USE," TO BE FULLY ACCESSIBLE TO PHYSICALLY HANDICAPPED PERSONS. COMPLY WITH AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) PUBLICATION A117.1 – 2009 "ACCESSIBLE & USEABLE BUILDINGS & FACILITIES" AND/OR GOVERNING CODE.
2. CLEAN ALL LINES BEFORE INSTALLATION; INSTALL FIXTURES COMPLETE WITH ALL RELATED TRAPS, TRIM, ETC. EXPOSED PIPING TO BE CHROME-PLATED. PROVIDE STOP VALVES IN ALL WATER LINES AT EACH FIXTURE; PROVIDE VACUUM BREAKERS ON ALL FLUSH VALVES IF REQUIRED.
3. THESE DRAWINGS ARE DIAGRAMMATIC & INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS & WORK INCLUDED IN THE CONTRACT. FOR THE EXACT LOCATION & MOUNTING HEIGHT OF FIXTURES REFER TO FLOOR PLANS OR MANUFACTURER'S SPECIFICATIONS.
4. PLUMBING CONTRACTOR SHALL VERIFY ALL INVERTS PRIOR TO THE INSTALLATION OF WORK.
5. WASTE PIPING SHALL BE SCHEDULE 40 PVC WITH WELDED JOINTS. DOMESTIC PIPING SHALL BE COPPER.
6. ALL HOT & COLD WATER LINES SHALL BE INSTALLED WITH 1" FIBERGLASS WITH ALL SERVICE JACKET. ALL WATER LINES SHALL BE INSULATED.
7. ALL PIPING RUNS SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES PRIOR TO THE INSTALLATION OF SAME.
8. PROVIDE STOP VALVES ON ALL WATER SUPPLY BRANCHES TO ALL FIXTURES.
9. PLUMBING CONTRACTOR SHALL PROVIDE FINAL CONNECTIONS TO ALL EQUIPMENT REQUIRING PLUMBING CONNECTION.
10. ALL PLUMBING WORK SHALL COMPLY WITH THE 2015 INTERNATIONAL PLUMBING CODE AND ALL APPLICABLE LOCAL, STATE & HEALTH CODES, & NATIONAL PLUMBING CODE. ALL MATERIALS, SANITARY PIPING, VENTS, AS APPROVED BY LOCAL AUTHORITIES.
11. DOMESTIC WATER PIPING SHALL BE LOCATED ABOVE SUSPENDED CEILING BUT BELOW ATTIC CEILING.
12. HOT WATER PIPING SHALL BE PROVIDED WITH A 1/2" DIA. RETURN LINE AND PUMP.

Plumbing Fixture Schedule

FIXTURE	MANUFACTURER SERIES NUMBER	WATER CLOSET AND URINAL				ACCESSORIES AND FEATURES
		BOWL TYPE	OUTLET	FLUSH VALVE	SEAT	
MC	AMERICAN STANDARD CADET MODEL 2467.016	FLOOR MOUNTED ELONGATED	FLOOR	N/A	CENTOCO 5505T00C W/COVER	EQUIPMENT & INSTALLATION FOR HANDICAPPED USE WHERE SHOWN 1.6 GPF W.C.
UR	SLOAN WES-4000	WATER FREE	N/A	N/A	N/A	EQUIPPED & INSTALLED FOR HANDICAPPED USE. AT A MAX OF 17 IN. A.F.F. AS SHOWN
FIXTURE	MANUFACTURER SERIES NUMBER	SINK / LAVATORY				ACCESSORIES AND FEATURES
		BOWL TYPE	FAUCET	SUPPLY PIPE	TRAP	
LAV	AMERICAN STANDARD 9141.011.020	14" x 14" x 4-1/2" CHINA	AMER. STAND. 7500.160.002	FLEX W/ KEY ANGLE STOP	CHROME PLATED BRASS	EQUIPMENT & INSTALLATION FOR HANDICAPPED USE PROVIDE PIPE INSULATION JACKET
LAV	ADVANCE TABCO FE-1-1620-X	16" x 20" BOWL ONE TUB SINK	REGENCY WALL MOUNT FAUCET W/8" CENTERS	1/2", 1/2"	CHROME PLATED BRASS	
S	AMERICAN STANDARD 22506252303C	STAINLESS STEEL DROP IN	AMER. STAND. 425050103	1/2", 1/2"	N/A	
MP	FIAT PRODUCTS MODEL M88D10	24" x 24" x 10"	COMMERCIAL 2 HANDLE WALL MT #830AA	1/2", 1/2"	3"	COMES WITH FAUCET, HOSE AND MOP HANGER
LS	ADVANCE TABCO 4-41-24-X	STAINLESS STEEL ONE COMPARTMENT SINK	785B-0231 WALL MOUNTED PANTRY FAUCET	1/2", 1/2"	CHROME PLATED BRASS	
FIXTURE	MANUFACTURER SERIES NUMBER	FLOOR DRAIN / STRAINER			ACCESSORIES AND FEATURES	
		MATERIAL	TYPE	INLET		
FD	WATTS DRAINAGE FD-100-A	EPOXY COATED CAST IRON	ROUND STRAINER	5"	2"	8 SQ. IN. NICKEL BRONZE STRAINER. SEEPAGE OPENINGS. PROVIDE TRAP PRIMER FOR EACH FLOOR DRAIN (1/2" C.W.)
FIXTURE	MANUFACTURER SERIES NUMBER	CLEAN OUT			ACCESSORIES AND FEATURES	
		MATERIAL	SIZE			
CO	WATTS DRAINAGE CO-200-R	EPOXY COATED CAST IRON	4"			5-1/8" ROUND ADJUSTABLE NICKEL BRONZE TOP AND NO HUB CONNECTION. MOUNT FLUSH W/ FLOOR.
FIXTURE	MANUFACTURER SERIES NUMBER	DISHWASHER			ACCESSORIES AND FEATURES	
		MATERIAL				
DW	FAGOR (TO BE SELECTED BY OWNER)	STAINLESS STEEL				
FIXTURE	MANUFACTURER SERIES NUMBER	WATER FOUNTAIN			ACCESSORIES AND FEATURES	
		MATERIAL				
WF	ELKAY MODEL L25TLBWSK	STAINLESS STEEL				INCLUDES WATER COOLER (L25TLBWSO), BOTTLE FILLER (L25WS) AND FILTER
FIXTURE	MANUFACTURER SERIES NUMBER	GREASE INTERCEPTOR			ACCESSORIES AND FEATURES	
		MATERIAL				
GI	SCHIER MODEL GB1	POLYETHYLENE				



Accessible Bathroom Accessory Details
(taken from ICC A117.1-2009)
Not To Scale

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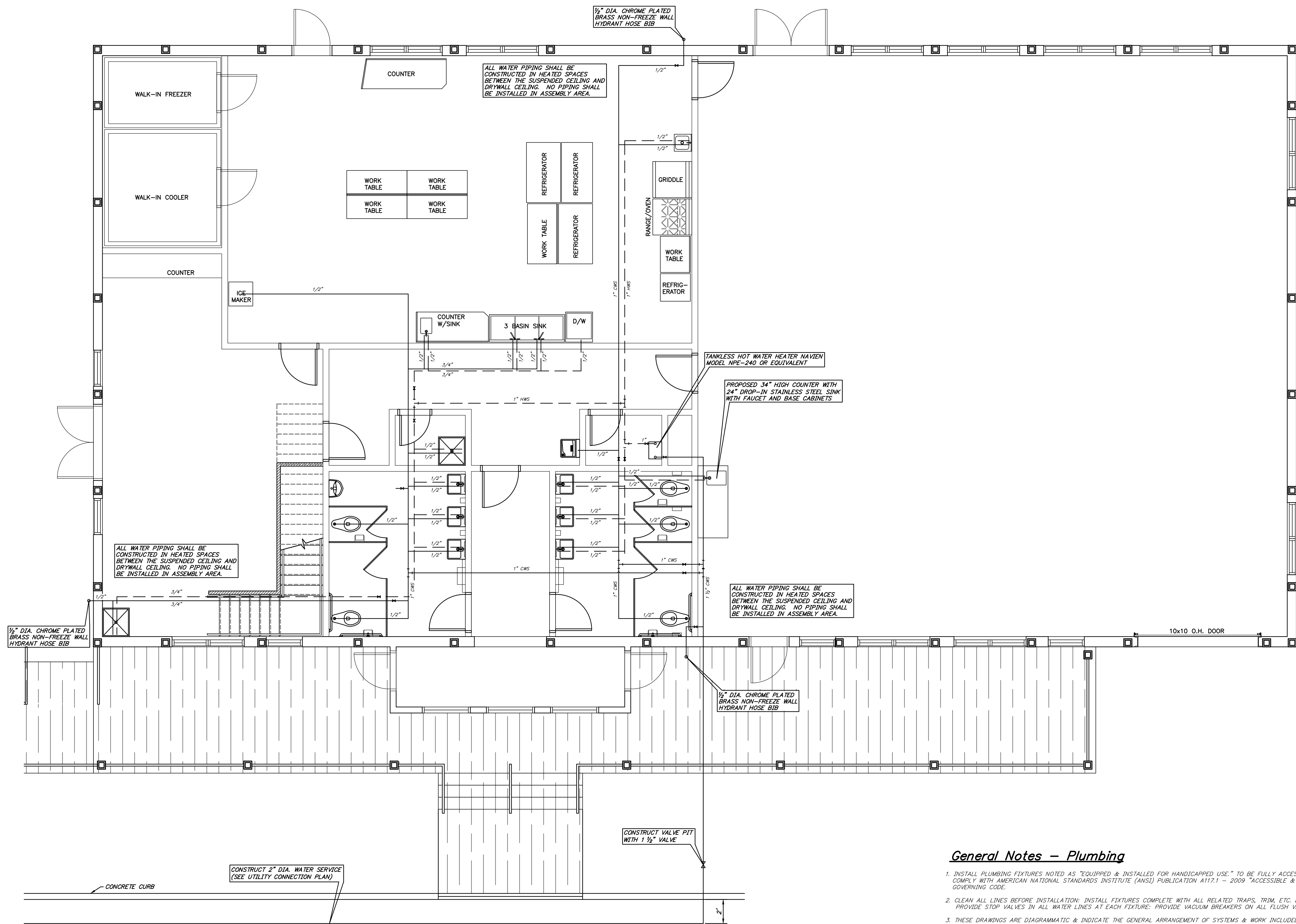
DATE: 05/10/19 PROJECT No. 16-54 DRAWING BY: TD, CHAD, BT, G.B.F. SCALE: 1/4" = 1'

KEY ENGINEERS, INC.
80 S. WHITE HORSE PIKE
BERLIN, NEW JERSEY 08009-2399
CERTIFICATE OF AUTHORIZATION #24628041300

Project Title
**CAMDEN COUNTY
CAMDEN COUNTY - PROPOSED MULTIPURPOSE BUILDING
508 LAKELAND ROAD
BLACKWOOD, NEW JERSEY 08012-0088**

Drawing Title
SANITARY WASTE FLOOR PLAN

Scale	CAD File
Drawn	Contract No. 18869
Checked	Drawing No. P-101
Date	
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Domestic Water Floor Plan
Scale: 1/4" = 1'

General Notes – Plumbing

1. INSTALL PLUMBING FIXTURES NOTED AS "EQUIPPED & INSTALLED FOR HANDICAPPED USE." TO BE FULLY ACCESSIBLE TO PHYSICALLY HANDICAPPED PERSONS. COMPLY WITH AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) PUBLICATION A117.1 - 2009 "ACCESSIBLE & USEABLE BUILDINGS & FACILITIES" AND/OR GOVERNING CODE.
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11. DOMESTIC WATER PIPING SHALL BE LOCATED ABOVE DROP CEILING BUT BELOW ATTIC CEILING.

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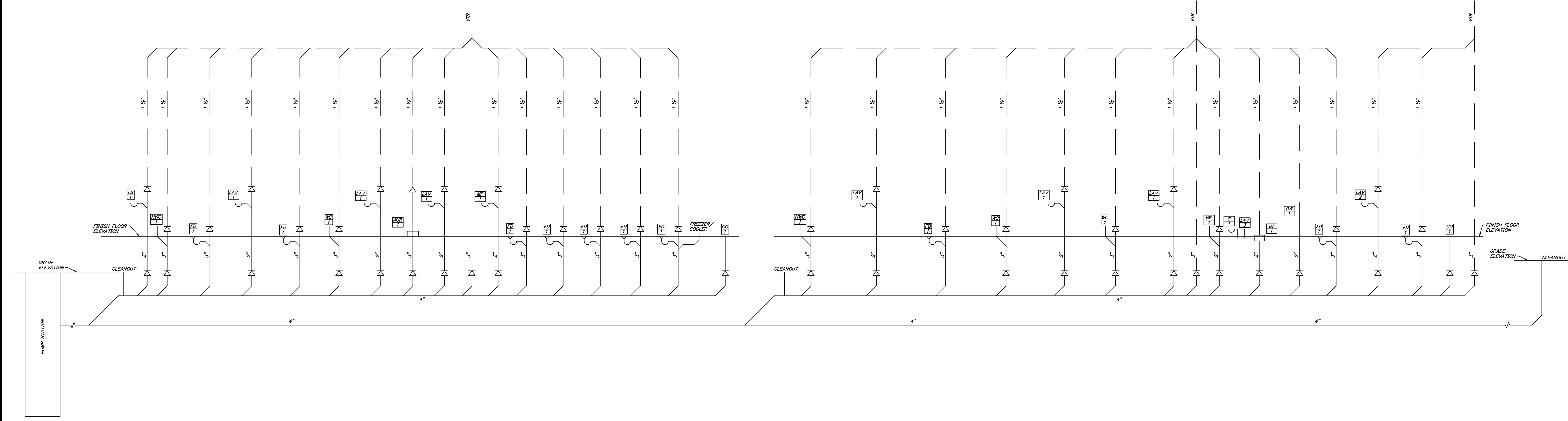
REV. I. DATE: 09/23/19
DATE: 08/10/19
PROJECT No. 16-54
REVISED FOR RE-BID PURPOSES
DESIGNER: G.B.F.
DRAWN BY: T.D.
CHECKED BY: T.D.
SCALE: 1/4" = 1'

DATE

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CAMDEN COUNTY - PROPOSED MULTIPURPOSE BUILDING
508 LAKELAND ROAD
BLACKWOOD, NEW JERSEY 08012-0088

DOMESTIC PIPING FLOOR PLAN

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Checked: Drawing No. P-102
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Project Title
CAMDEN COUNTY
 CAMDEN COUNTY - PROPOSED MULTIPURPOSE BUILDING
 508 LAKELAND ROAD
 BLACKWOOD, NEW JERSEY 08012-0088

Drawing Title
SANITARY RISER DIAGRAM

Scale	CAD File
Drawn	Contract No. 18869
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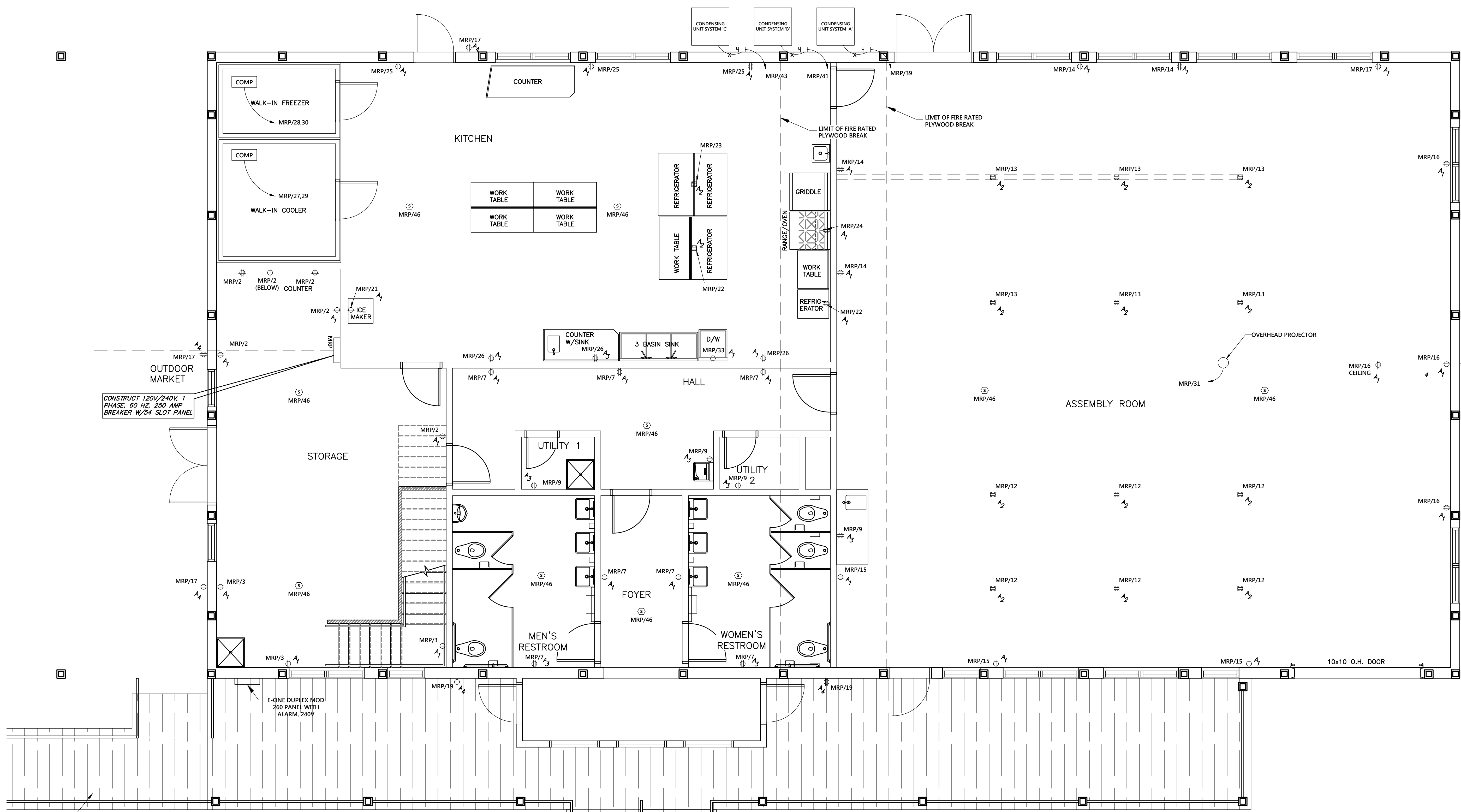
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Electrical Schedule				
KEY	MANUFACTURER	CATALOG NO.	DESCRIPTION	MOUNTING
A ₁	LEVITON	T5825-W	DECORA 20-AMP TAMPER-RESISTANT DUPLEX OUTLET - WHITE	STANDARD WALL MOUNT
A ₂	LEVITON		20-AMP COMMERCIAL GRADE SELF GROUNDING DUPLEX OUTLET WITH FLOOR BOX FOR CONCRETE FLOOR CONSTRUCTION	FLOOR MOUNT
A ₃	LEVITON	GFTR2-W	SMARTLOCK PRO 20 AMP SLIM TAMPER RESISTANT GFCI DUPLEX OUTLET - WHITE	STANDARD WALL MOUNT
A ₄	LEVITON	GFWR2-W / WM1V-GY	SMARTLOCK PRO 20 AMP SLIM WEATHER & TAMPER RESISTANT GFCI DUPLEX OUTLET - WHITE W/WEATHERPROOF COVER	STANDARD WALL MOUNT

* ALL MANUFACTURERS SPECIFIED ARE "OR EQUIVALENT"

Legend:
KEYED TO THIS SHEET ONLY

- 20 AMP QUAD RECEPTACLE ABOVE COUNTER
- 20 AMP RECEPTACLE
- FLOOR MOUNTED 20 AMP RECEPTACLE
- 20 AMP G.F.I. RECEPTACLE
- 20 AMP G.F.I. RECEPTACLE W/WEATHERPROOF COVER
- SINGLE PHASE GROUND MOUNTED AIR HANDLER
-
- SMOKE DETECTOR, KIDDE 3 IN 1 LED STROBE AND CARBON MONOXIDE DETECTOR WITH 10 YEAR BATTERY 120 VOLT HARD WIRED SYSTEM BY CONTRACTOR

Notes:

1. ALARM PANEL, FIRE PULL STATIONS AUDIBLE ALARM A, AND VISUAL ALARM V SHALL BE DESIGNED AND INSTALLED BY OTHERS.
2. ALL ELECTRICAL WORK SHALL BE IN STRICT ACCORDANCE WITH THE 2008 NATIONAL ELECTRICAL CODE, THE 2015 INTERNAL CONSTRUCTION CODE, AND LOCAL ORDINANCES.
3. ALL CONDUCTORS SHALL BE COPPER. SIZES SHOWN ARE FOR COPPER CONDUCTORS, UNLESS OTHERWISE SHOWN.
4. ALL CIRCUITS SHALL BE MINIMUM WIRE SIZE OF #12 AWG THIN/THIN. ALL WIRING SHALL BE IN METAL CONDUIT IN UNFINISHED AREAS. MC CABLE IS ACCEPTABLE FOR RECEPTACLES AND LIGHTING IN FINISHED AREAS CONCEALED IN WALLS.
5. NO MORE THAN 6 RECEPTACLES SHALL BE WIRED TO A 20 AMP CIRCUIT BREAKER IN THE MAIN PANEL. MINIMUM CIRCUIT BREAKER SIZE SHALL BE 20 AMP.
6. ELECTRICAL CONTRACTOR SHALL INSTALL AND CONNECT POWER WIRING TO EQUIPMENT FURNISHED BY OTHERS AND SHALL WIRE LINE VOLTAGE THERMOSTATS FOR MECHANICAL EQUIPMENT AND LINE SIDE OF ALL STARTERS, RELAYS, AND CONTRACTORS FOR MECHANICAL EQUIPMENT.
7. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL DISCONNECT SWITCHES AS REQUIRED BY CODE WHETHER OR NOT THEY ARE INDICATED ON PLANS.
8. ELECTRICAL CONTRACTOR SHALL BALANCE THE LOADS IN EACH PANEL TO PROVIDE THE MOST EVEN DISTRIBUTION PRACTICAL.
9. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO BEGINNING WORK.
10. ELECTRICAL CONTRACTOR SHALL WIRE ALL EMERGENCY EXIT SIGNS, AND EGRESS LIGHTS) AHEAD OF ALL SWITCHES IN THAT CIRCUIT SO AS NOT TO BE SWITCHED WITH LIGHTS. EMERGENCY LIGHT PACKS SHALL BE WIRED TO THE LIGHTING CIRCUITS.
11. THESE DRAWINGS ARE DIAGRAMATIC AND INDICATE GENERAL SCOPE OF WORK. THE CONTRACTOR SHALL VERIFY EXACT LOCATION AND MOUNTING HEIGHT OF FIXTURES, SWITCHES, RECEPTACLES, ETC. AND SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE APPROPRIATE CODE AND THE MANUFACTURERS INSTRUCTIONS.

REV. L. DATE: 09/23/19
REV. I. DATE: 08/10/19
PROJECT No. 16-54
DRAWN BY: TD
CHECKED BY: G.B.F.
SCALE: 1/4" = 1'

PROVISION: REVISED FOR RE-BID PURPOSES
CHNG. I.D. G.B.F.

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Project Title
CAMDEN COUNTY
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508 LAKELAND ROAD
BLACKWOOD, NEW JERSEY 08012-0088

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Date _____

ELECTRICAL POWER FLOOR PLAN
Drawing Title

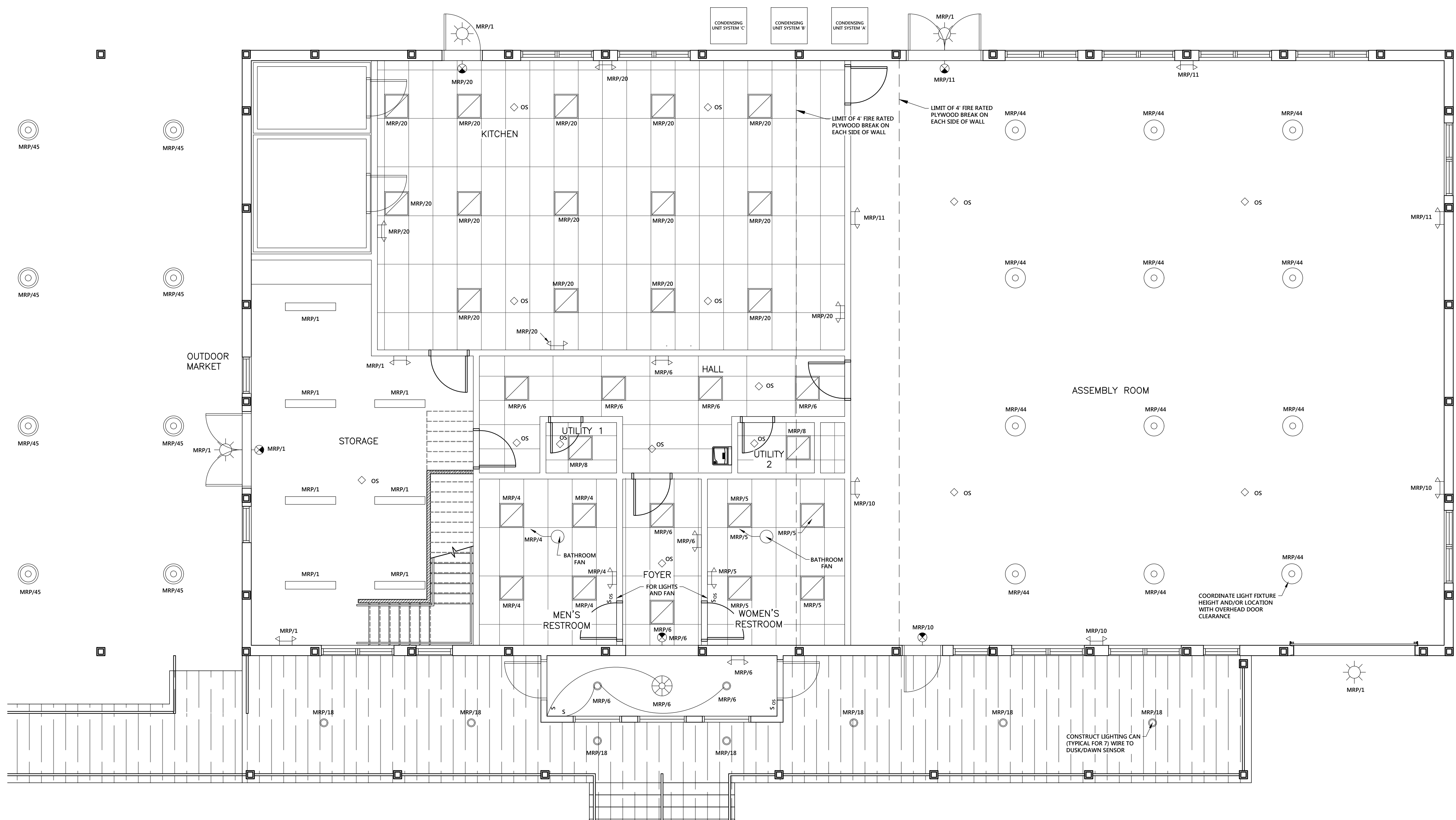
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Lighting Fixture / Lighting Controls Schedule

KEY	MANUFACTURER	CATALOG NO.	DESCRIPTION	MOUNTING	KEY	MANUFACTURER	CATALOG NO.	DESCRIPTION	MOUNTING
□	LITHONIA LIGHTING	2GL2-33L-G210-LP835	2' x 2' LED TROFFER	CEILING	☉	LEDS-C4	00-5297-25-23U	SUGAR PENDANT	CEILING
○	BROAN	L400	400 CFM BATH FAN WITH CEILING GRILL	CEILING (REQUIRES 10" DIA. DUCT TO ROOF W/ ROOF CAP)	○	GE	LPS SERIES	LED ILLUMINATION PENDANT SUSPENDED W/ WING/LIGHT ACRYLIC RETRACTOR	CEILING
▭	LITHONIA LIGHTING	GRD-SL-8-80CR-5K-D-00LMF-0/80-MINI0-ZT-20V-SLT-FI-3CA-C110	4' LONG INDUSTRIAL LIGHT FIXTURE	CEILING (CHAIN HUNG)	☉	INNERMOST	FOUNDRY 50, 02-BLACK	LED PENDANT SUSPENDED	CEILING
☰	COOPER LIGHTING	PC2-10	POLY CARBONATE EMERGENCY LIGHT	WALL MOUNT (above door)	☀	SUNPARK	W2800, 30-FINISH	LED WALL SCONCE WITH DUSK/DAWN SENSOR	STANDARD WALL MOUNT
☼	COOPER LIGHTING	PC4-RU	COMBINATION EMERGENCY / EXIT LIGHT	CEILING/WALL (above doors as shown)	S	LEVITON		20 AMP SINGLE POLE TOGGLE WALL SWITCH	STANDARD WALL MOUNT
S _{OS}	LEVITON	ODS10-10W	WALL SWITCH OCCUPANCY SENSOR WITH 0-10V DIMMER	STANDARD WALL MOUNT	○	HALO	H750 FOR WET LOCATION	INSULATED CEILING LED RECESSED HOUSING WITH 6" TRIM	CEILING
◇ OS	LEVITON	ODC10-MDW	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR	STANDARD CEILING MOUNT					

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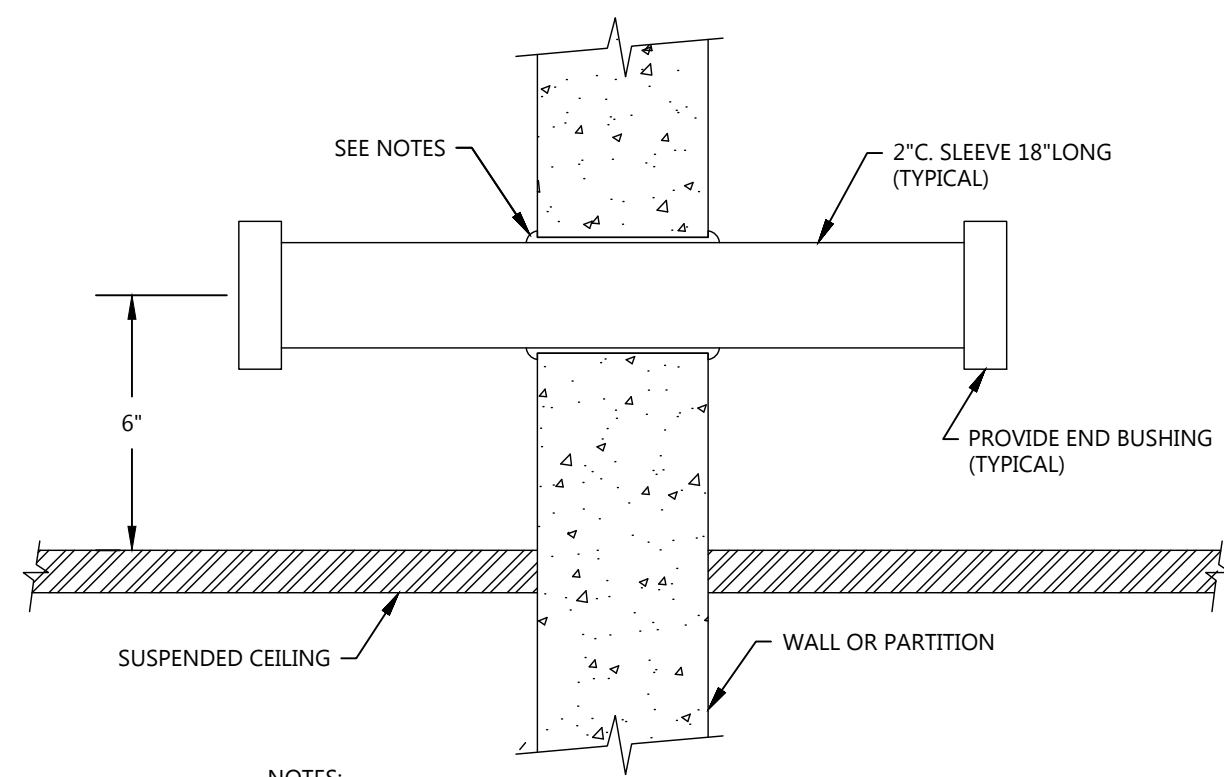
Electrical Lighting Floor Plan
Drawing Title

Scale
CAD File

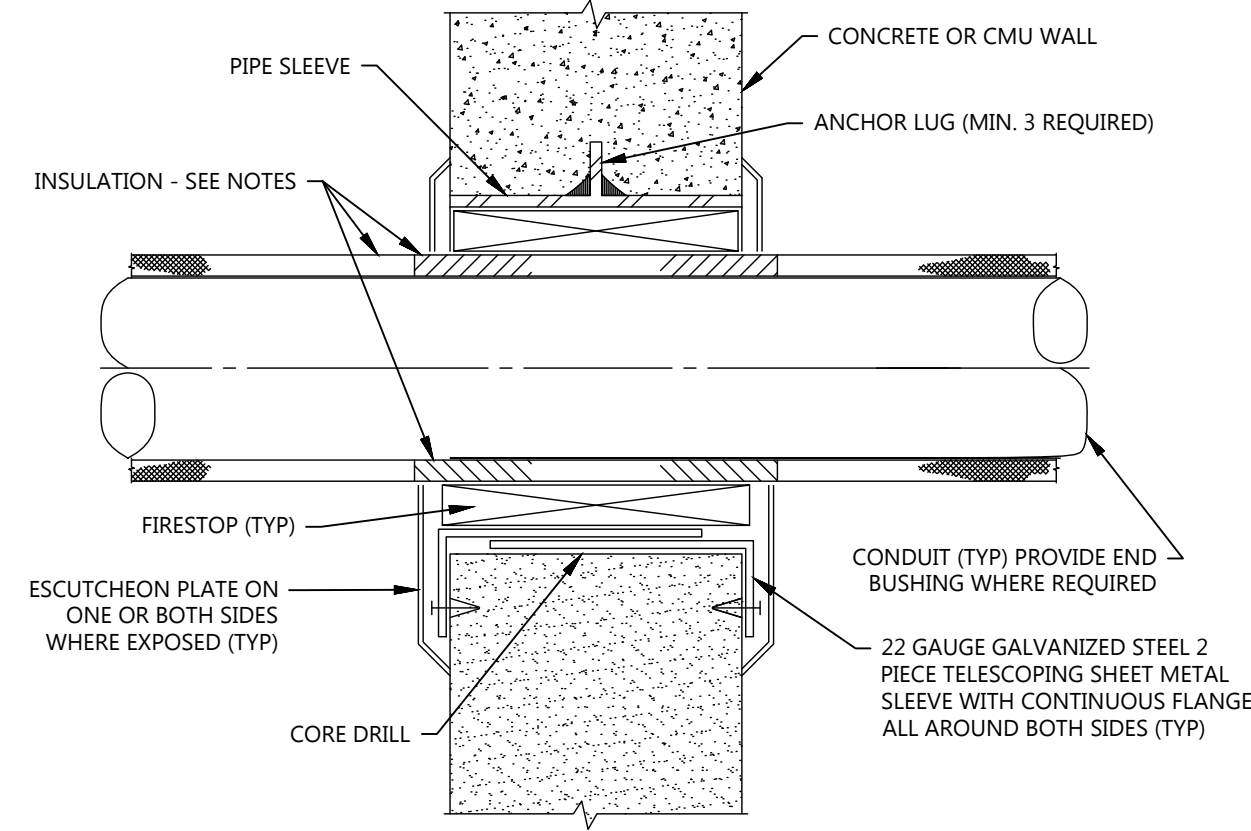
Drawn
Contract No. 18869

Checked
Drawing No. E-102

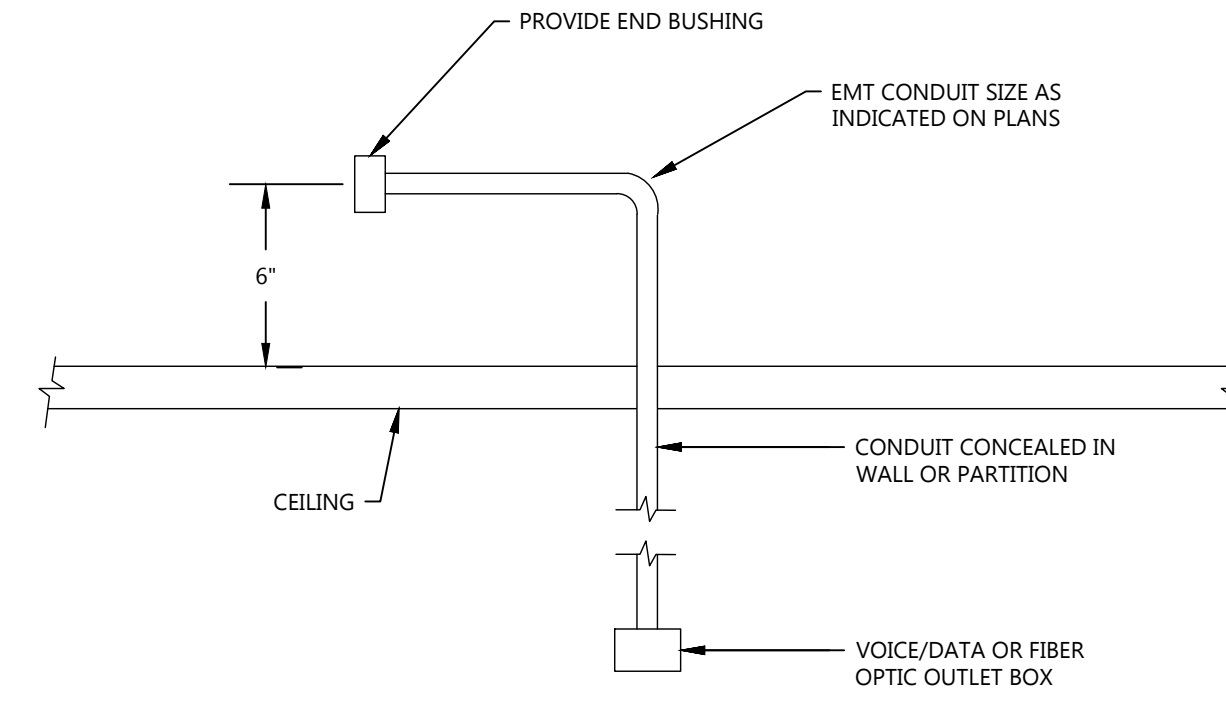
Date
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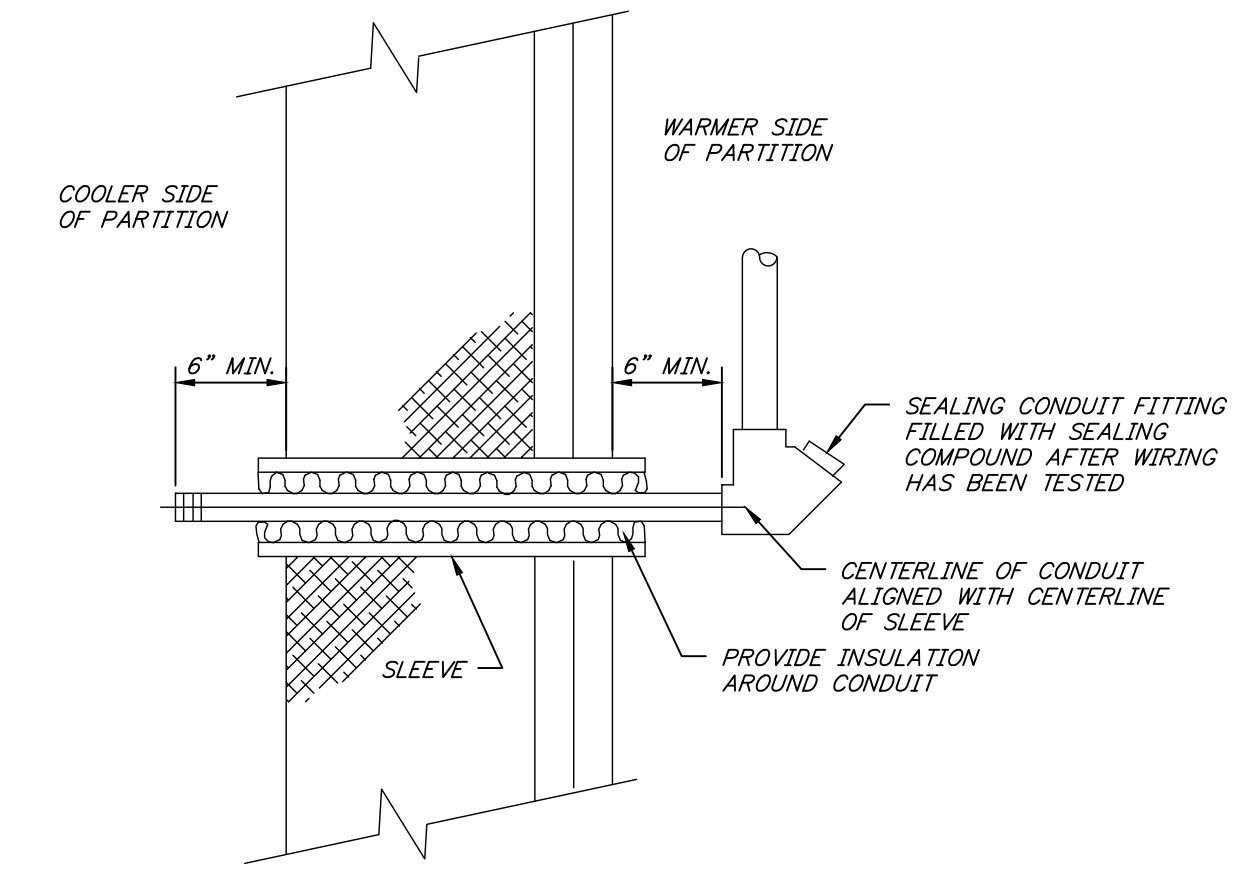
1 DETAIL - WALL SLEEVE
NOT TO SCALE



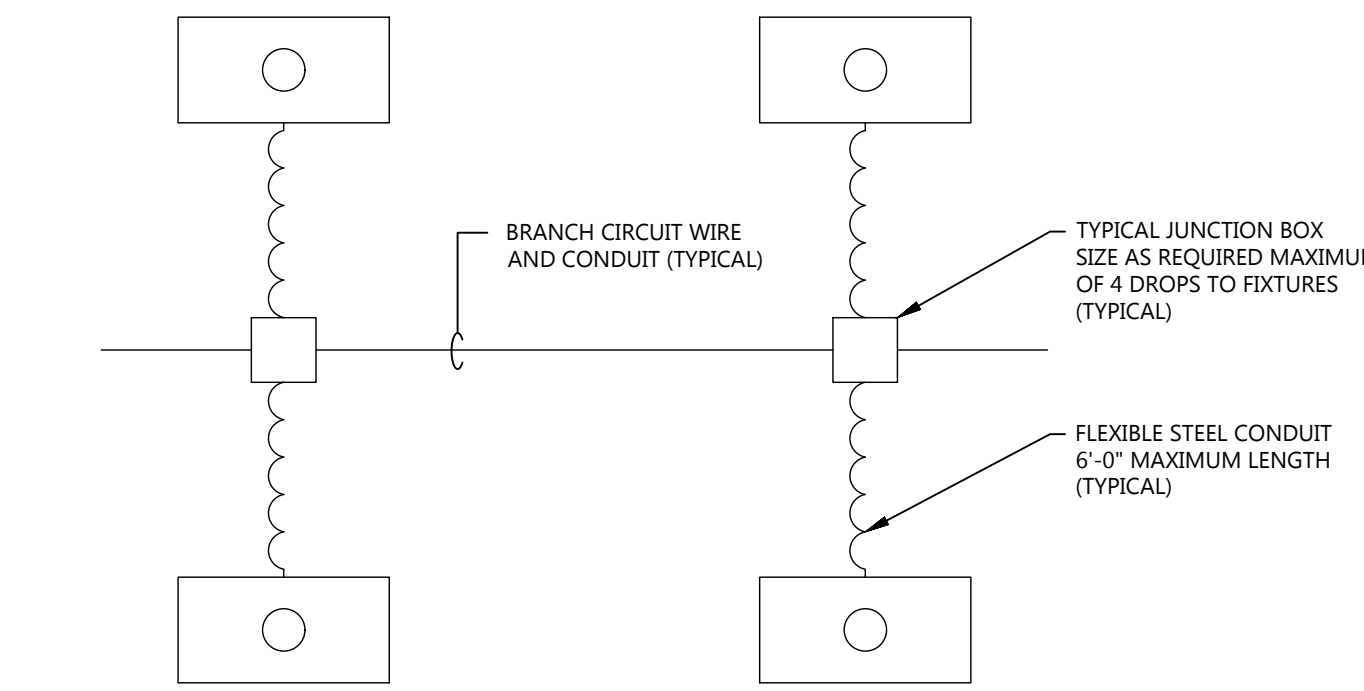
2 DETAIL - WALL SLEEVE
NOT TO SCALE



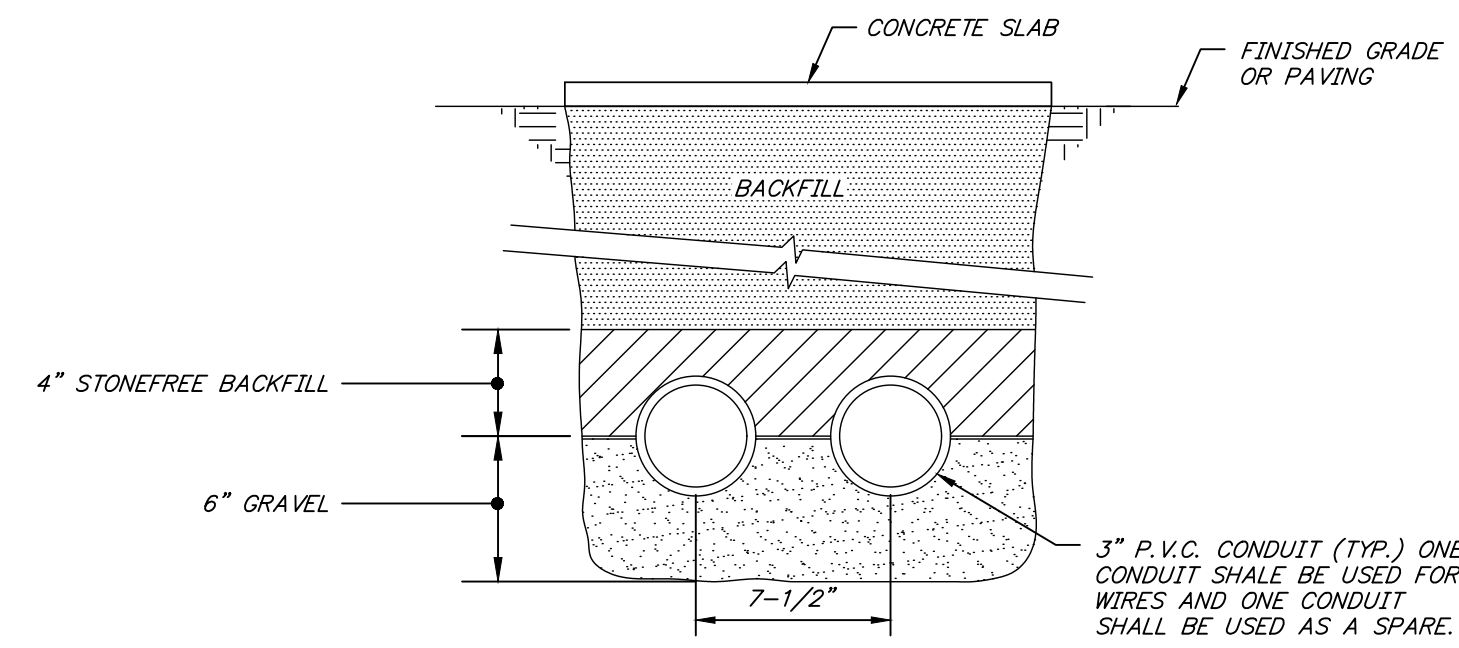
3 DETAIL - CONDUIT STUB-UP ABOVE CEILING
NOT TO SCALE



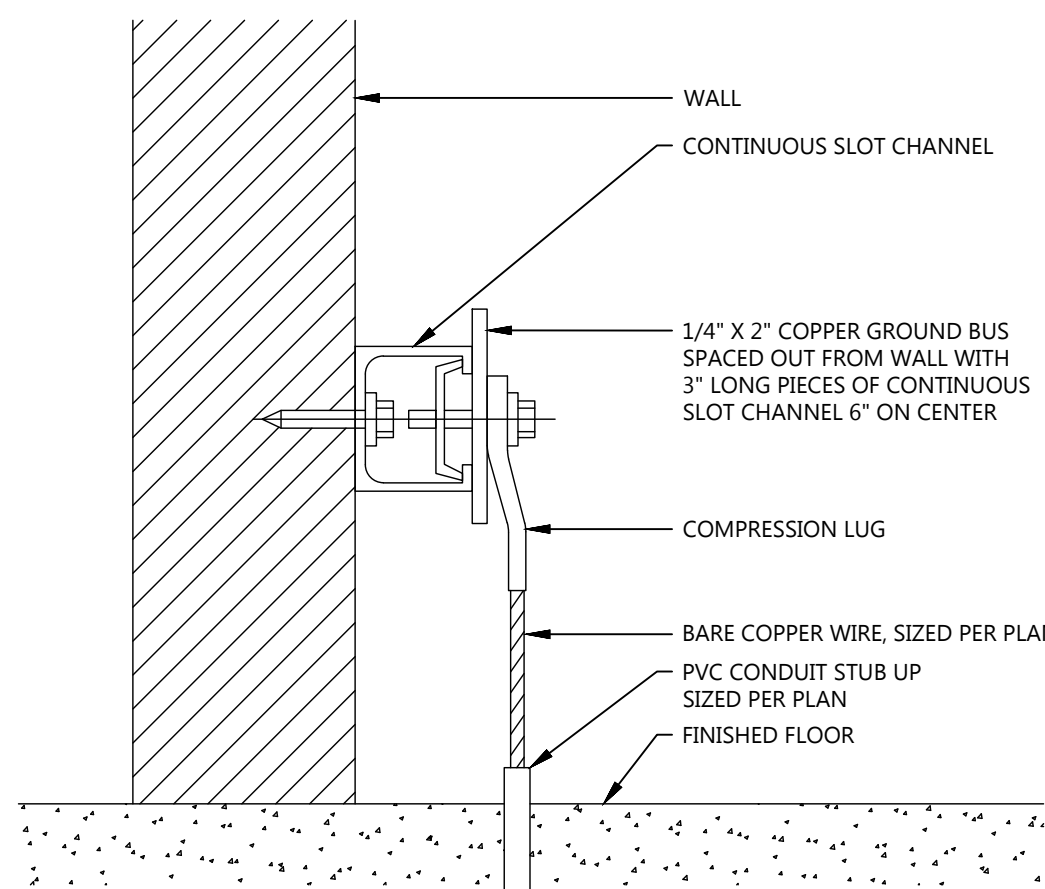
Conduit Seal In Areas With 20+ Temperature Difference Detail
not to scale



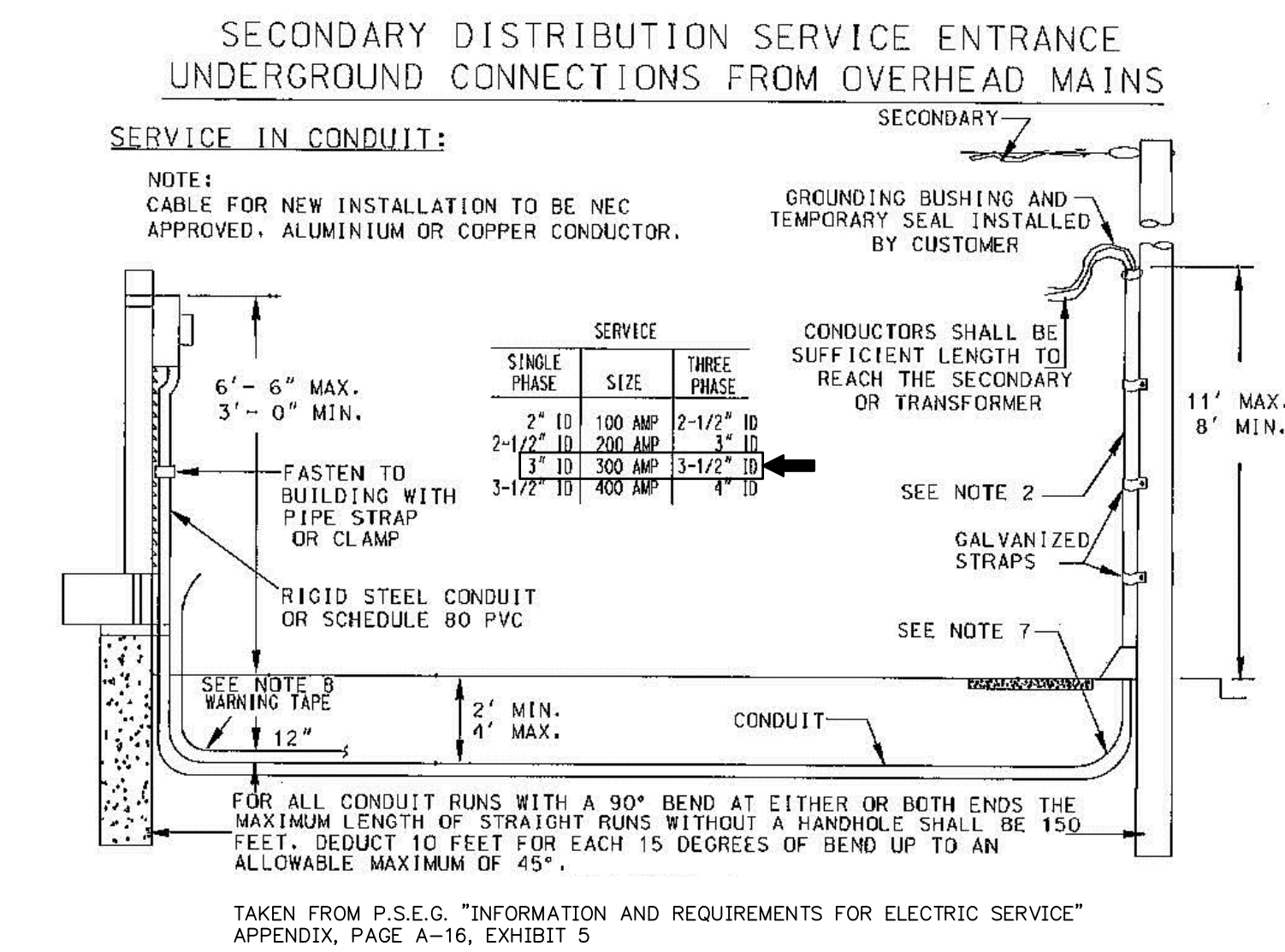
4 DETAIL - FIXTURE WIRING, INDIVIDUAL MOUNTING
NOT TO SCALE



Direct Bury Conduits Detail
not to scale



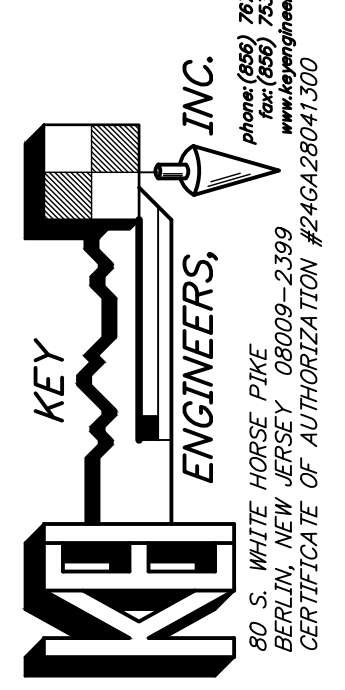
TYP. DETAIL - GROUND BUS BAR BONDING
NOT TO SCALE



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PROFESSIONAL ENGINEER
GREGORY BLASE FUSCO
PROFESSIONAL ENGINEER
PA.P.E. No. 036608-E
NJ PROFESSIONAL PLANNER No. 4076
DATE: 08/23/19
REV. L. 08/23/19
REVISION: REVISED FOR RE-BID PURPOSES
DRAWN BY: TD | CHECKED BY: G.B.F. | SCALE: 1/4"
C.H.W. G.B.F.



CAMDEN COUNTY
CAMDEN COUNTY - PROPOSED MULTIPURPOSE BUILDING
508 LAKELAND ROAD
BLACKWOOD, NEW JERSEY 08012-0088

ELECTRICAL DETAILS 2

Scale: CAD File
Drawn: Contract No. 18869
Checked: Drawing No. E-104
Date: _____

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