

COVER SHEET

SH. 1 OF 8

**APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS**
(Reproduce the following data on the building plan sheet 1 or 2)

REPRINTED FROM VOLUME IA
(Any proposed code change to this Appendix must be proposed to Volume IA for consideration)

Name of Project: LEE'S PERFORMANCE CENTER, INC.
Address: OLD STATESVILLE RD., CHARLOTTE, NC
Proposed Use: MOTORCYCLE PERFORMANCE SHOP, SALES
Owner/Contact Person: LEE SHIERTS Phone # 704-599-1507
Code Enforcement Jurisdiction: NCBC

DESIGNER OF RECORD:

DESIGNER	NAME	LICENSE#	TELEPHONE#
Architectural			
Electrical	<u>W.J. MARTIN</u>	<u>11445</u>	<u>704-542-7689</u>
Plumbing			
Mechanical			
Structural			
Specialty Standpipe			
Fire Alarm	<u>W.J. MARTIN</u>	<u>11445</u>	<u>704-542-7689</u>
Other	<u>L. LIANG</u>	<u>23122</u>	<u>704-865-8484</u>

(MPL, BLDG.)

BUILDING DATA
Occupancy: Assembly Business Educational Mercantile
 Hazardous Factory-Industrial Institutional (restrained)
 Institutional (restrained) Use Condition _____
 Residential Storage
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Mixed Occupancy? Yes No Separation: NA
Construction Type: I II III IV (U) V (U) VI (U) VII (U) VIII (U) IX (U) X (U)
Mixed construction Yes No Type _____
Sprinkled? Yes No (13 13R 13D): _____
Fire District? Yes No
Building Height: 14'-11" Feet ONE Number of Stories
Mezzanine: Yes No
High Rise? Yes No

Gross Building Area:
(Foot Print) (Foot Print)
Floor Sq. Ft. Sq. Ft.
Basement _____ 4th Floor _____
1st Floor 7,440 5th Floor _____
2nd Floor _____ 6th Floor _____
3rd Floor _____ 7th Floor _____
Total Gross Area: 7,440 sq. ft.
Area Increase? Yes No Yes: code reference: _____
If yes, calculations: _____

FIRE RESISTANCE RATINGS³

Party/Firewalls:	Required Hourly ²	Detail # & Sheet #	% Wall Opening ¹	Design No. for Rated Assemblies ²
Exterior bearing Walls:				
North				
East				
West				
South				
Exterior non-bearing Walls				
North				
East				
West				
South				

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Interior Walls:	Required Hourly ²	Detail # & Sheet #	Design No. for Rated	Design No. for Rated
Bearing				
Non-bearing				
Tenant Separation				
Colling-Floors Assembly				
Beams				
Columns				
Colling-Roof Assembly				
Vertical Shafts ⁴				
Chases-P.E.M.				
Mixed Occupancy Separation				
Tenant Separation:				

FOOTNOTES:
1. Required if wall to property line or assumed line is less than 30 feet.
2. All fire rated walls shall be identified on plans by hatching, shading, etc.; show legend.
3. Identify code section when using any special exceptions, etc.
4. Stairs, elevators and/or atrium.
5. Details or Reproductions of rated assemblies/penetrations shall be incorporated on the drawings.

LIFE SAFETY SYSTEM:
Emergency Lighting and Exit Signs Yes No
Fire Alarm and Smoke Detection Systems Yes No
Panic Hardware Yes No

EXIT REQUIREMENTS:
Dead end limit-maximum condition 50 Feet
Travel distance to exit-maximum condition 48 Feet
Number exits:
Total Square feet of floor 7,440 divided by net sq. ft. per occupancy 100 = 74 Total number of people on floor.
Number of doors provided 12 number of doors required 4

DESIGN LOADS:
Roof live load: 20 psf.
Wind: Zone 2 mph 80 Importance Factor 1.0
ASCE-7 95 Exposure C
Floor: 100 psf.
Snow: 10 psf.
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Lateral design Control: Earthquake _____ Wind _____ SEE BLDG. DTGR. DWG.
Calculated Wind Base Shear (for MWFRS) $V_x =$ CL OF 1
 $V_y =$ _____

SEISMIC PERFORMANCE CATEGORY A
Compliance with Section 1607.3.6.1.1 Ties and continuity?
SEISMIC PERFORMANCE CATEGORY B, B.C.
Provide the following Seismic Design Parameters:
Effective peak velocity-related acceleration $A_v =$ 0.100
Peak acceleration coefficient $A_p =$ 0.100
Seismic Hazard Exposure Group $SHEG =$ _____
Seismic Performance Group $SPG =$ _____
Site coefficient $S =$ _____
Basic structural system (check one)
 bearing wall Dual w/Special Moment Frame
 building frame Dual w/Intermediate R/C or Special Steel
 Moment Frame Inverted Pendulum
Response modification factor $R_s =$ SEE BLDG. DTGR. ENG.
Deflection amplification factor $C_d =$ DWGS.
Building Height limit, feet $H =$ _____
Seismic base shear $V =$ _____

MODAL ANALYSIS PROCEDURE
Modal base shear $V =$ _____
ELF procedure base shear $V =$ _____
Architectural, Mechanical, Components anchored per force C_{cp} _____

SOIL BEARING CAPACITIES:
Field Test (provided copy of test report) _____ psf.
Presumptive Bearing capacity 2,000 psf.
Pile size, type, and capacity _____

PARKING SPACES: * Required * Provided
Handicap Spaces * provided (17' wide and R7-8 sign)
Special approval by Department of Insurance or by Local Jurisdiction, describe below:
* SEE CIVIL ENGRG. DWGS.

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ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet and shall sign the Designer's statement for the appropriate portion, as required by G.S. 143-151.33. If energy cost budget method, state the annual energy cost budget vs allowable annual energy cost budget.

THERMAL ENVELOPE
METHOD OF COMPLIANCE:
Prescriptive Performance Energy Cost Budget

Roof/Ceiling Assembly (each assembly)
Description of assembly METAL
U-Value of total assembly 0.065
R-Value of insulation R-15 MINIMUM
Skylights in each assembly NONE
U-Value of skylight: _____
total square footage of skylights in each assembly _____

Exterior Walls (each assembly)
Description of assembly GWB/MTL. STUDS/GYP./MAS. VENEER
U-Value of total assembly 0.155
R-Value of insulation R-13 MIN.
Openings (windows or doors with glazing) 12.13%
U-Value of assembly 0.370
shading coefficient 0.1
projection factor 0.1
low e required, if applicable NA
Door R-Values R-2 MIN.

Walls adjacent to unconditioned space (each assembly) NA
Description of assembly _____
U-Value of total assembly _____
R-Value of insulation _____
Openings (windows or doors with glazing) _____
U-Value of assembly _____
low e required, if applicable _____
Door R-Values _____

Walls below grade (each assembly) NA
Description of assembly _____
U-Value of total assembly _____
R-Value of insulation _____

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Floors over unconditioned space (each assembly) NA
Description of assembly _____
U-Value of total assembly _____
R-Value of insulation _____
Floors slab on grade
Description of assembly CONCRETE/TILE/CARPET
U-Value of total assembly 0.083
R-Value of insulation R-8.7
Horizontal/vertical requirement slab heated NO

DESIGNER STATEMENT¹
To the best of my knowledge and belief, the design of this building complies with the thermal envelope requirements of the North Carolina State Building Code, Volume X-Energy.
SIGNED: _____
NAME: _____
TITLE: _____

ELECTRICAL SYSTEM AND EQUIPMENT SEE ELEC. DWGS.
METHOD OF COMPLIANCE:
Prescriptive Performance Energy Cost Budget

Provide a standard riser diagram which indicates designated points for check metering.
Provide a standard panel schedule description which identifies different enduse loads.
Lighting schedule
lamp type required in fixture _____
number of lamps in fixture _____
ballast type used in the fixture _____
number of ballasts in fixture _____
total wattage per fixture _____
total interior wattage specified vs allowed _____
total exterior wattage specified vs allowed _____

Equipment schedules with motors (not used for mechanical systems)
motor horsepower _____
number of phases _____
minimum efficiency _____
motor type _____
of poles _____

DESIGNER STATEMENT¹
To the best of my knowledge and belief, the design of this building complies with the electrical system and equipment requirements of the North Carolina State Building Code, Volume X-Energy.
SIGNED: _____
NAME: _____
TITLE: _____

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electrical system and equipment requirements of the North Carolina State Building Code, Volume X-Energy.
SIGNED: _____
NAME: _____
TITLE: _____

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
METHOD OF COMPLIANCE: SEE HVAC DWGS.
Prescriptive Energy Cost Budget

Thermal Zone
Exterior design conditions
winter dry bulb _____
summer dry bulb _____
Interior design conditions
winter dry bulb _____
summer dry bulb _____
relative humidity _____

Building heating load
Building cooling load
Mechanical Spacing Conditioning System
Unitary description of unit
heating efficiency _____
cooling efficiency _____
heat output of unit _____
cooling output of unit _____
boiler total boiler output. If oversized, state reason.
chiller total chiller capacity. If oversized, state reason.

List equipment efficiencies
Equipment schedules with motors (mechanical systems)
motor horsepower _____
number of phases _____
minimum efficiency _____
motor type _____
of poles _____

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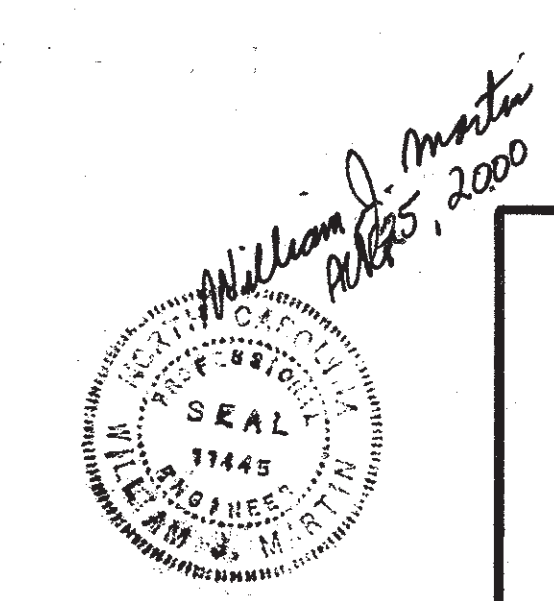
DESIGNER STATEMENT¹
To the best of my knowledge and belief, the design of this building complies with the mechanical systems, service systems and equipment requirements of the North Carolina State Building Code, Volume X-Energy.
SIGNED: _____
NAME: _____
TITLE: _____

FOOTNOTES:
1. Designer statement may be furnished on actual plans. When furnished on plans, this statement is not required as part of Summary Sheet and may be reproduced by the "Lead Design Professional" onto the Summary Sheet.

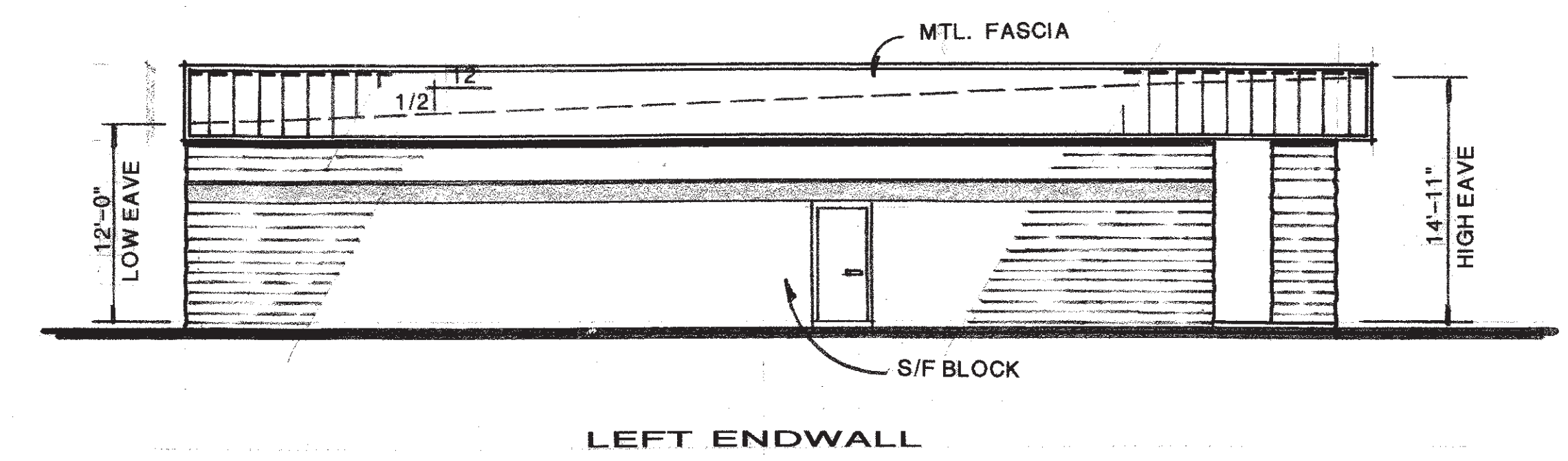
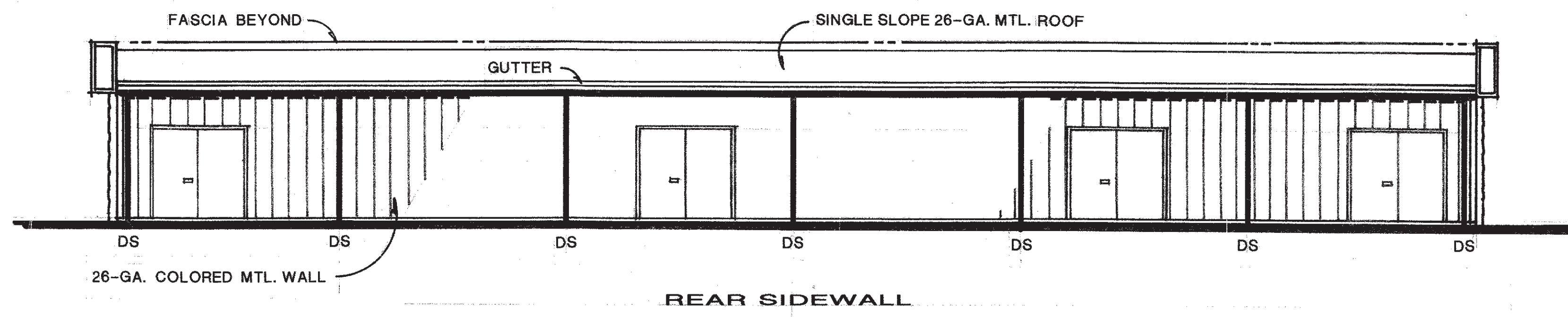
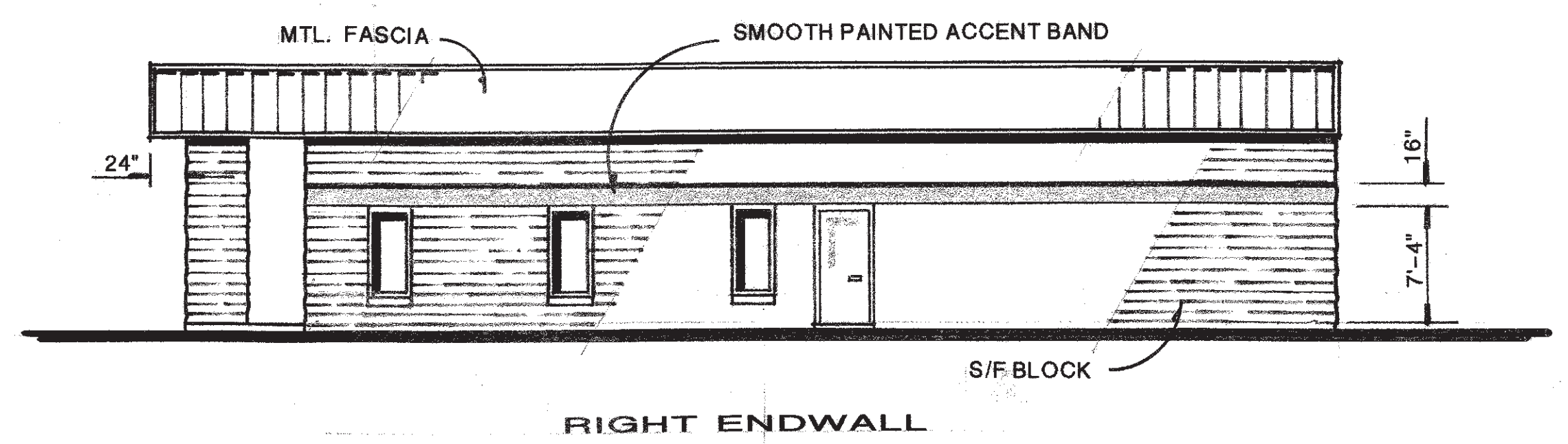
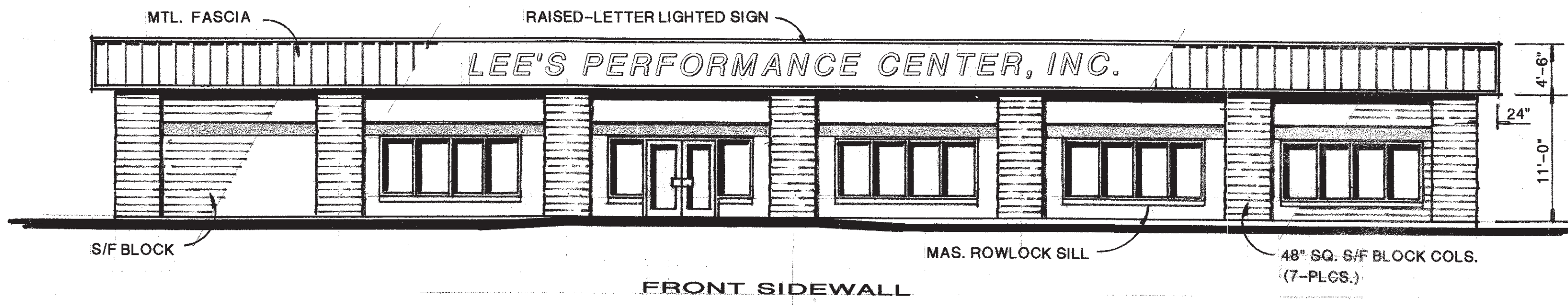
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SHEET	DESCRIPTION
1	COVER SHEET, CODE SUMMARY
2	EXTERIOR ELEVATIONS, BLDG. SECTION, ROOF, WALL, & FASCIA PANEL DETAILS
3	DIMENSIONAL FLOOR PLAN, DOOR & WINDOW SCHEDULE, INSULATION NOTES, FRAMING NOTES
4	INTERIOR FINISH KEY PLAN, FINISH SCHEDULE, INSULATION REFLECTED CEILING PLAN
5	CABINET & SHELF DETAILS
6	FOUNDATION PLAN & DETAILS
7	PIT DETAILS, WALL SECTIONS
8	PLUMBING PLAN, RISER DIAGRAM, FIXTURE SCHEDULE, NOTES
9	HVAC PLAN, EQUIP. SCHEDULE, NOTES
10	ELECTRICAL POWER PLAN
11	ELECTRICAL LIGHTING PLAN
12	FIRE ALARM & EQUIP. PLAN
13	ELECTRICAL RISER DIAGRAM, PANEL LAYOUTS, FIXTURE SCHEDULE, NOTES
14	

NEVILLE'S OFF. SET
SEPT. 12th 00



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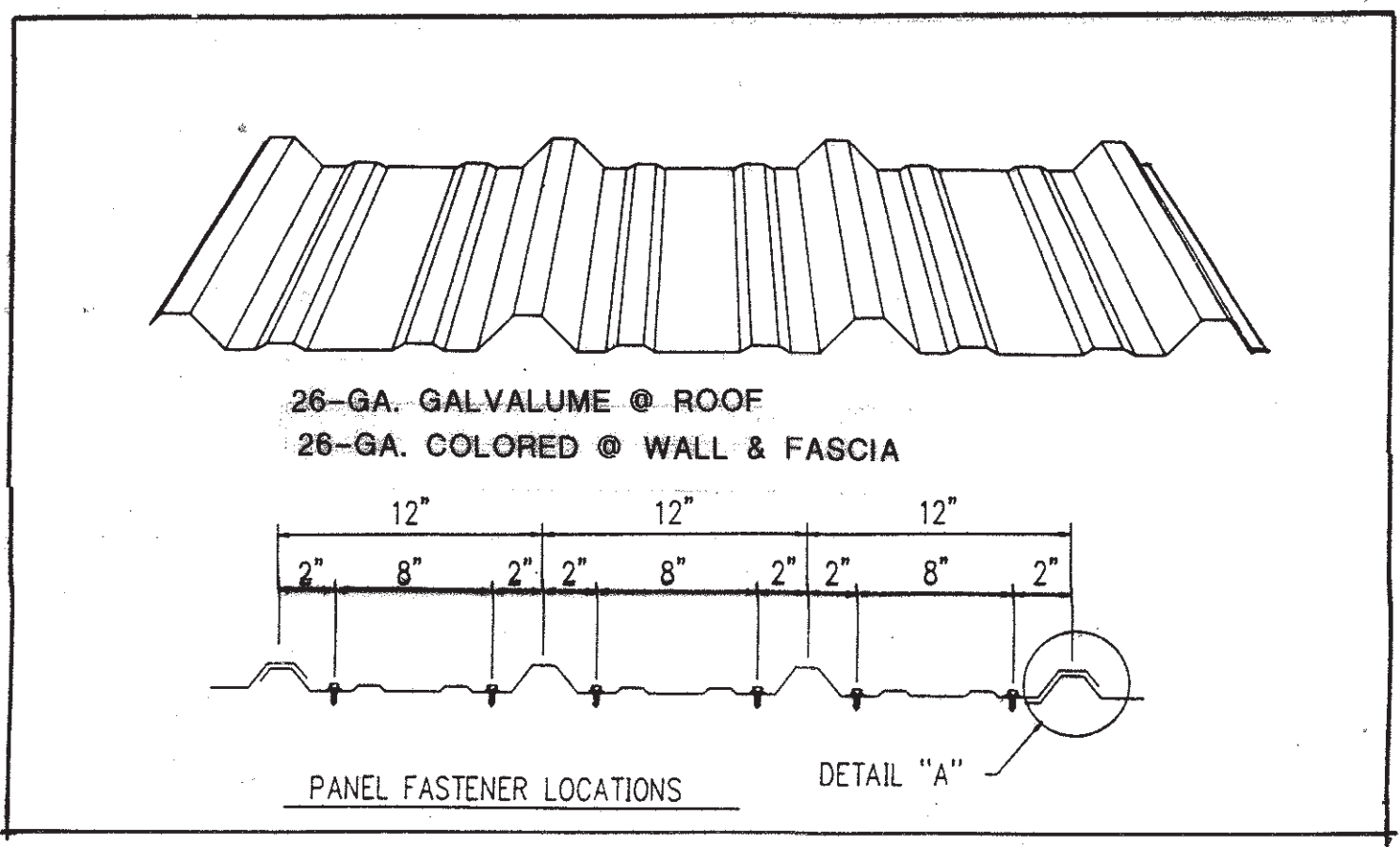


ELEVATIONS

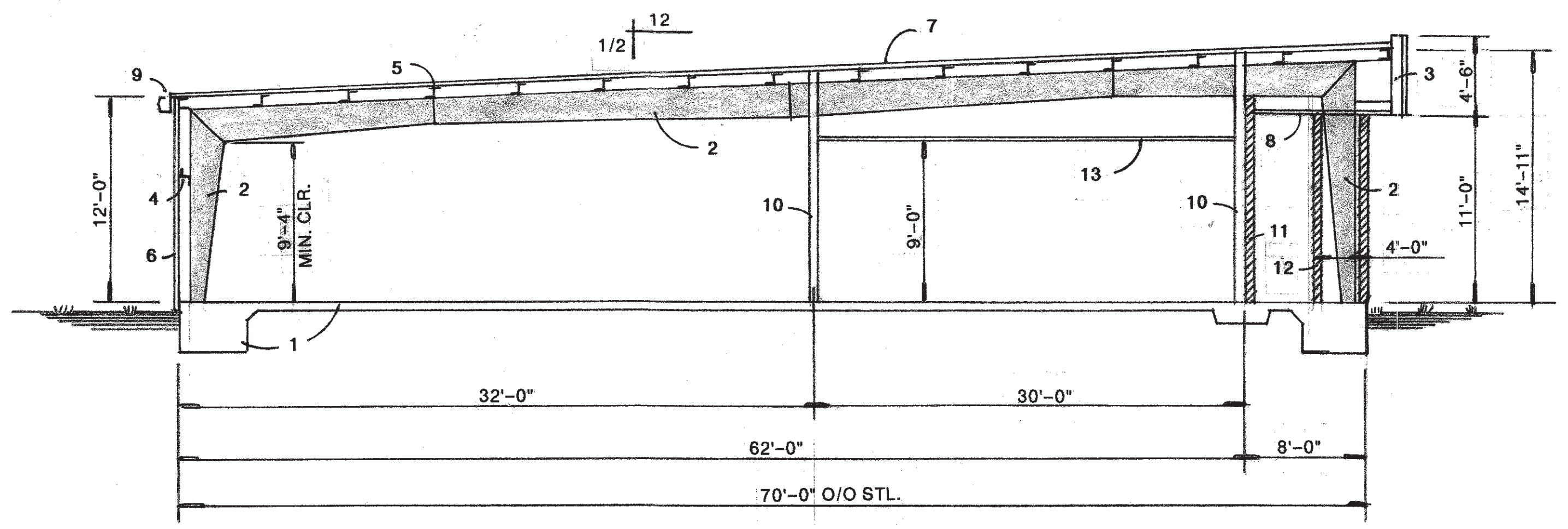
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CROSS SECTION LEGEND

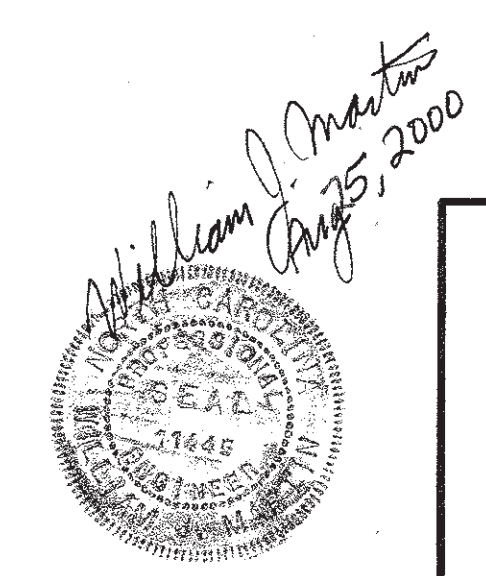
1. CONCRETE FOUNDATION & FLOOR SLAB (SEE FOUNDATION DETAILS)
2. STL. BUILDING MAIN FRAME (PER MTL. BLDG. MFGR.)
3. METAL FASCIA & STRUCTURE (PER MTL. BLDG. MFGR.)
4. 8" "Z" GIRT (PER MTL. BLDG. MFGR.)
5. 8" "Z" PURLINS (PER MTL. BLDG. MFGR.)
6. METAL WALL PANELS
7. METAL ROOF PANELS
8. METAL SOFFIT PANELS
9. GUTTER
10. METAL STUDS TO ROOF DECK (SEE DETAILS)
11. MASONRY VENEER (SEE DETAILS)
12. MASONRY COLUMN SURROUND (SEE DETAILS)
13. SUSPENDED ACOUSTICAL CEILING



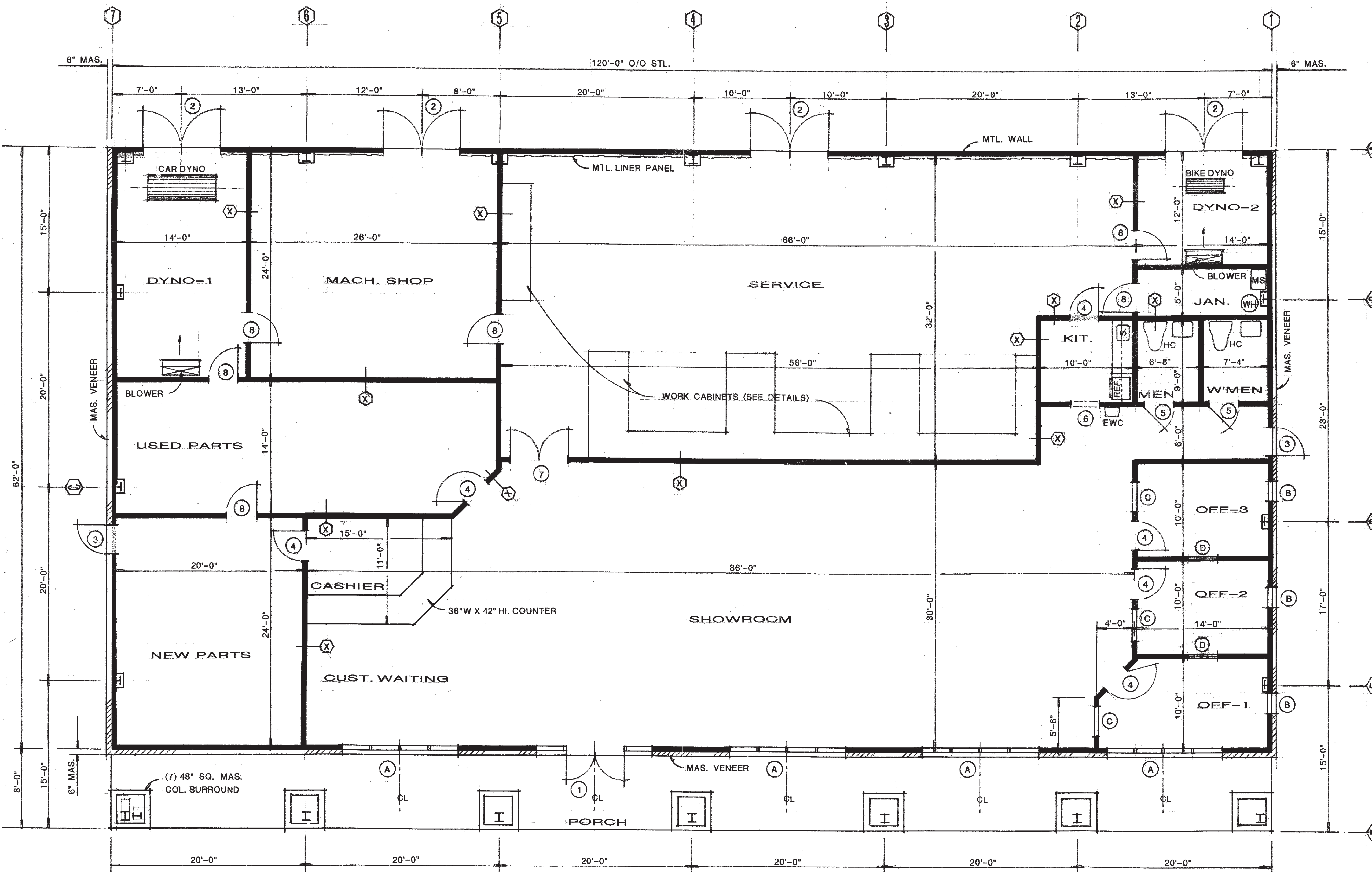
ROOF, REAR WALL, & FASCIA PANEL DET.



LATERAL BLDG. SECTION NO SCALE



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DOOR & WINDOW SCHEDULE

- ① 6070 PAIR ALUM. STORE FRONT DOORS W/1/2" TEMP. GLASS IN 2"x4" ALUM. TUBING FRAME W/(2) 3050 SIDE LIGHTS, CLOSERS, HEAD/FOOT BOLTS & KEY LOCK, ADA ALUM. THRESH, WEATHERSTRIPPING.
- ② 8080 PAIR HOLLOW METAL FLUSH DOORS IN PM FRAME, HEAD/FOOT BOLT & KEY LOCK, ASTRAGAL, ALUM. THRESH, WEATHERSTRIPPING.
- ③ 3070 HOLLOW METAL FLUSH DOOR, PM FRAME, CLOSER, KEY LOCK, ALUM. THRESH, WEATHERSTRIPPING.
- ④ 3068 SC WOOD FLUSH DOOR IN PM FRAME, LEVER TYPE KEY LOCK, 20-MIN. RATED.
- ⑤ 3068 SC WOOD FLUSH DOOR IN PM FRAME, LEVER TYPE PRIVACY SET, 20-MIN. RATED.
- ⑥ 3068 CASSED OPENING, PM FRAME.
- ⑦ 6068 PAIR SC WOOD FLUSH DOORS IN PM FRAME, HEAD/FOOT BOLT, KEY LOCK, 20-MIN. RATED, LEVER TYPE HDWE.
- ⑧ 3068 SC WOOD FLUSH DOOR IN PM FRAME, STANDARD PASSAGE HDWE, LEVER TYPE.
- A 12'x5' STOREFRONT ALUM. FIXED GLASS WINDOWS IN 2"x4" ALUM. FRAME, W/(4) EQUAL VERTICAL SECTIONS, DG INSULATING GLASS.
- B 2050 STOREFRONT ALUM FIXED GLASS WINDOWS IN 2"x4" ALUM. FRAME, DG INSULATING GLASS.
- C 3030 FIXED 1/4" WIREGLASS VIEW WINDOW IN PM FRAME.
- ⑨ 10'x8' PAIR HOLLOW METAL FLUSH DOORS IN PM FRAME, HEAD/FOOT BOLT & KEY LOCK, ASTRAGAL, ALUM. THRESH, WEATHERSTRIPPING
- D 3030 HORIZONTAL SLIDING GLASS WINDOW IN PM FRAME

FLOOR PLAN SCALE: 3/16" EQ. 1'-0"

FRAMING NOTES

(X) (SEE PLAN) 1-HR. FIRE RATED WALL FROM FLOOR TO ROOF DECK (SEE DETAIL SH-8)

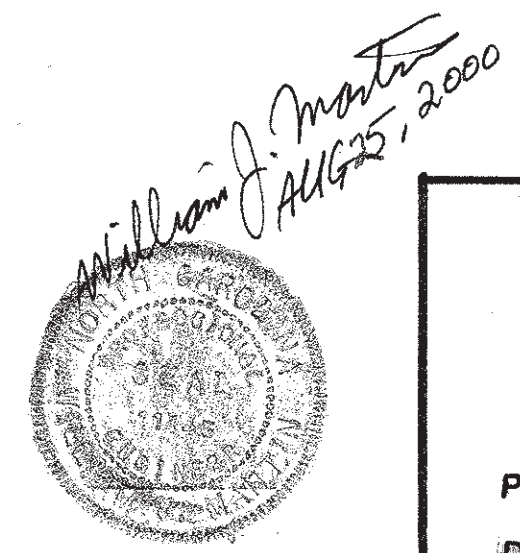
INSULATION:

WALLS: R-13 KRAFT-FACED BATTS & R-11 VINYL-FACED FIBERGLASS BLANKET.

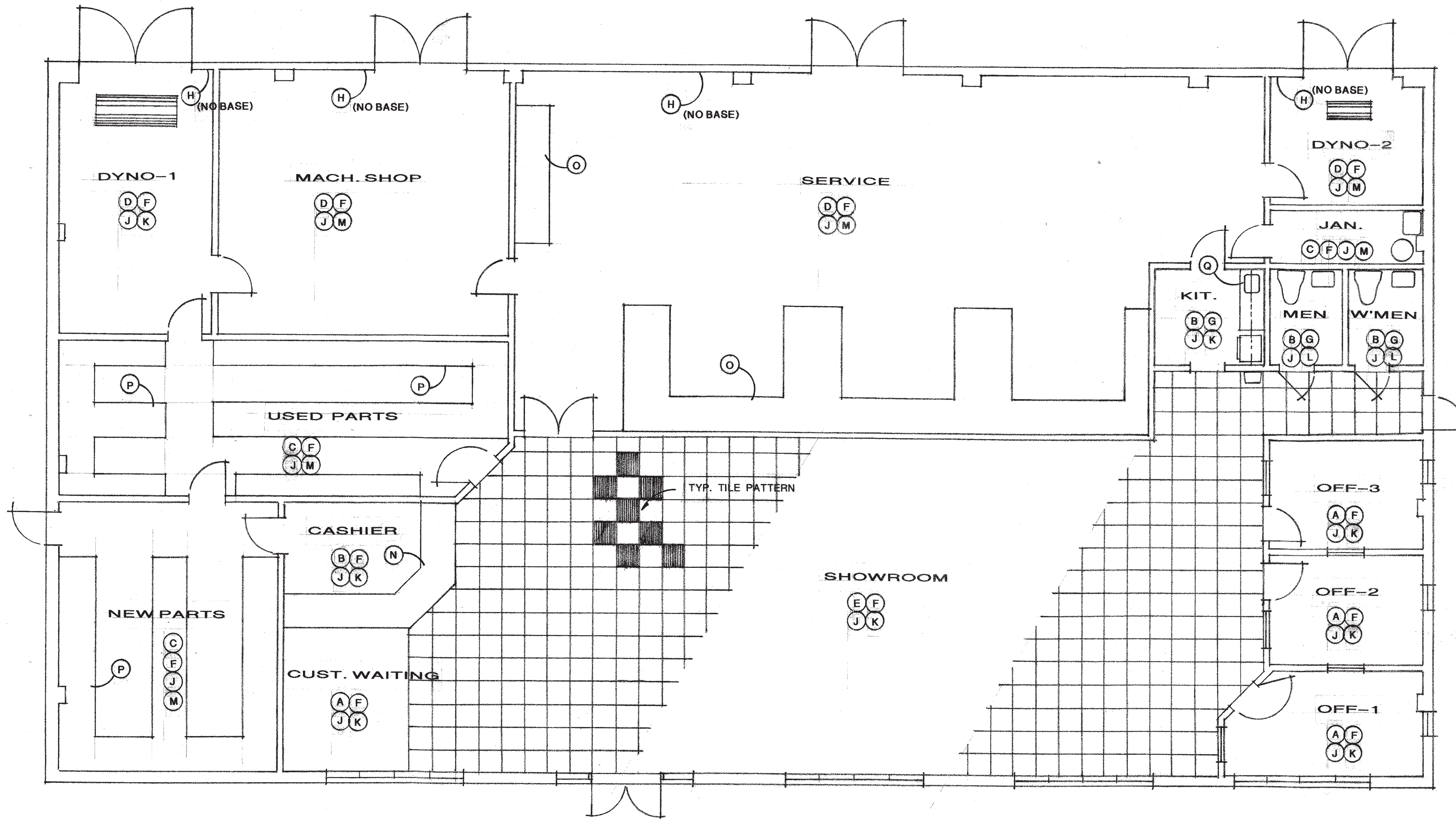
CEILINGS: R-30 KRAFT-FACED BATTS.

ROOF: R-11 VINYL-FACED FIBERGLASS BLANKET.

FLOORS: R-8.7 24" WIDE RIGID INSULATION BOARD @ PERIMETER OF SLAB.



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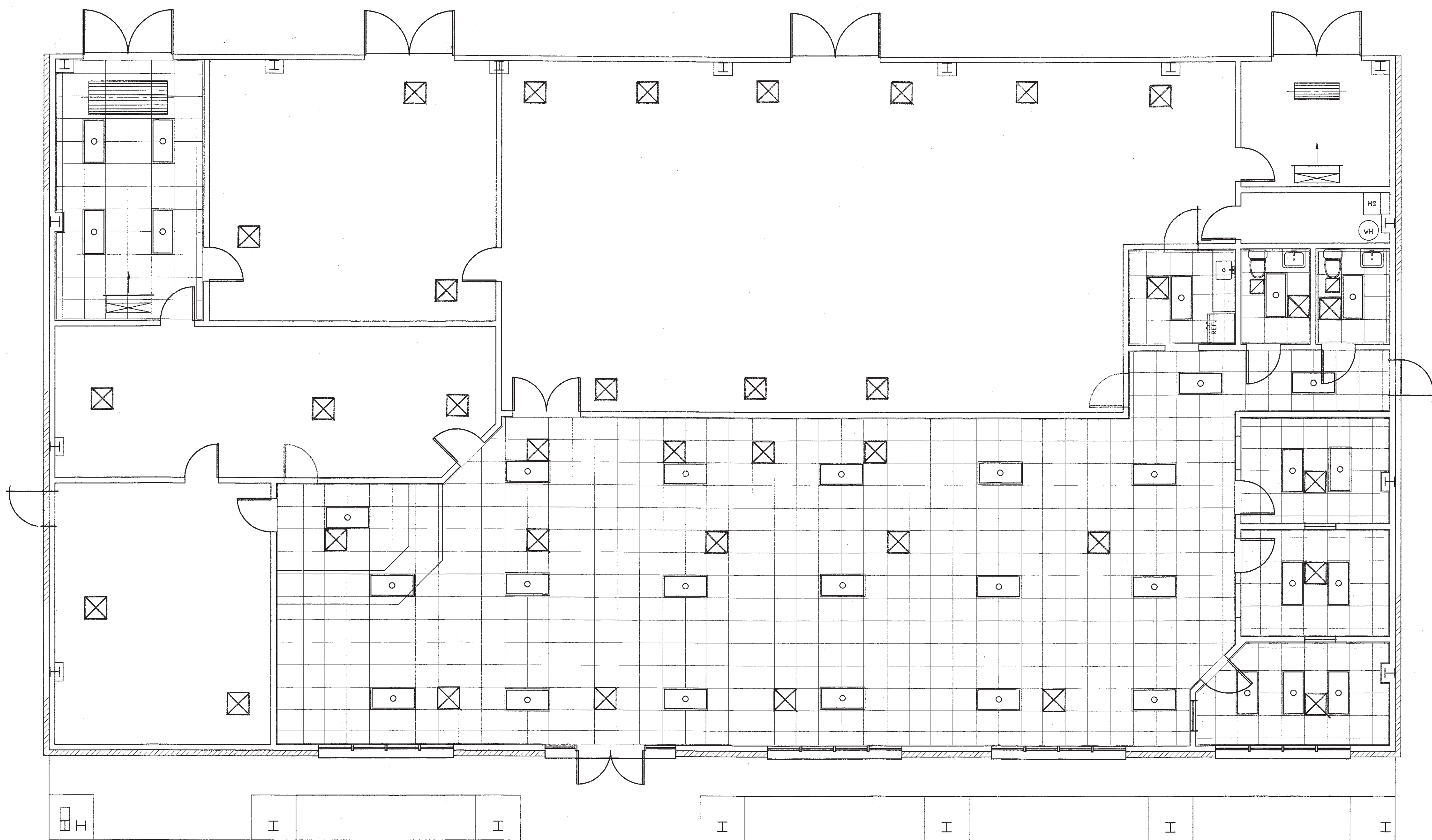


INTERIOR FINISH KEY PLAN SCALE: 3/16" EQ. 1'-0"

- INTERIOR FINISHES LEGEND**
- FLOORS**
- (A) CARPET. COMMERCIAL GRADE W/FOAM UNDERPAD. COLOR & PATTERN TO BE SELECTED.
 - (B) VINYL TILE. 8" SQ., COLOR & PATTERN TO BE SELECTED.
 - (C) FINISHED CONCRETE. PAINTED 2-COATS HIGH GLOSS ENAMEL. COLOR TO BE SELECTED.
 - (D) FINISHED CONCRETE. 2-COATS CLEAR EPOXY TOPPING.
 - (E) CERAMIC TILE. THINSET 12" SQ. ALTERNATING BLACK & WHITE CHECKERBOARD PATTERN.
- WALLS**
- (F) GYP WALL BOARD W/2-COATS LATEX SEMIGLOSS.
 - (G) GYP WALL BOARD W/2-COATS EPOXY PAINT.
 - (H) PRECOLORED METAL LINER PANEL 9' HIGH.
 - (J) BASE: ALL BASE MATERIAL TO BE 4" COVE RUBBER.
- CEILING**
- (K) 2'x2' LAY-IN ACOUSTICAL TILE IN PREFINISHED MTL. GRID SYSTEM, 9' HIGH.
 - (L) 2'x2' LAY-IN ACOUSTICAL TILE, MOISTURE-RESISTANT, 8' HIGH.
 - (M) EXPOSED ROOF STRUCTURE & VF INSULATION, UNFINISHED.
- CABINETRY**
- (N) CASHIER COUNTER. SEE DETAILS
 - (O) WORK CABINETS. SEE DETAILS
 - (P) PARTS SHELVING. SEE DETAILS
 - (Q) KITCHEN CABINETS. SEE DETAILS
- } SH-8

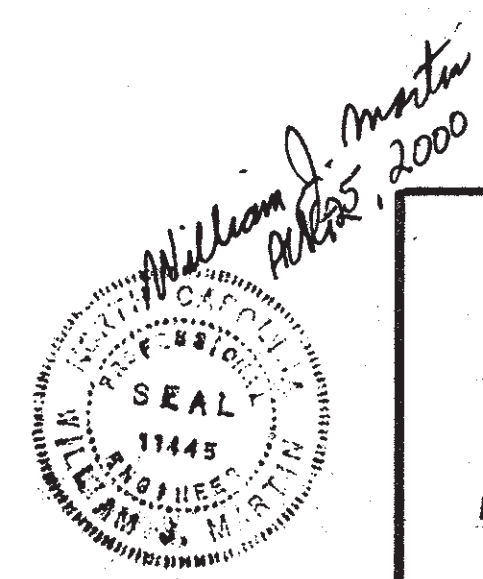
William J. Martin
2/25/00

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		OF 14

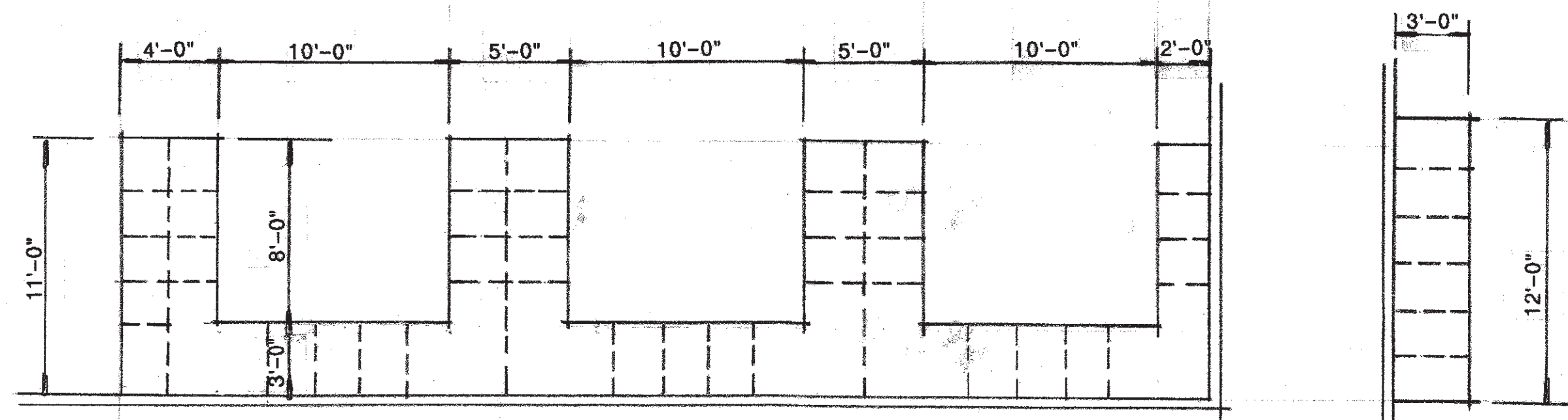


REFLECTED CEILING PLAN

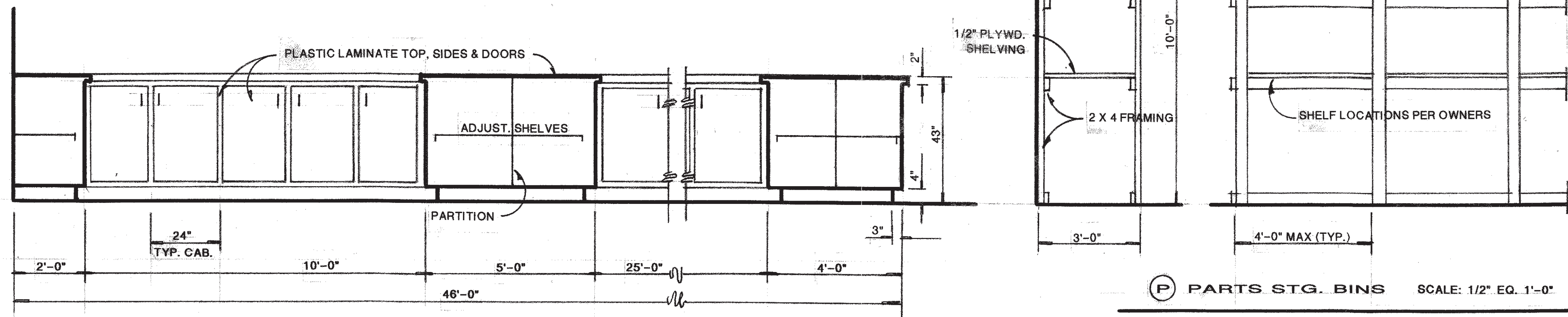
SCALE: 3/16" EQ. 1'-0"



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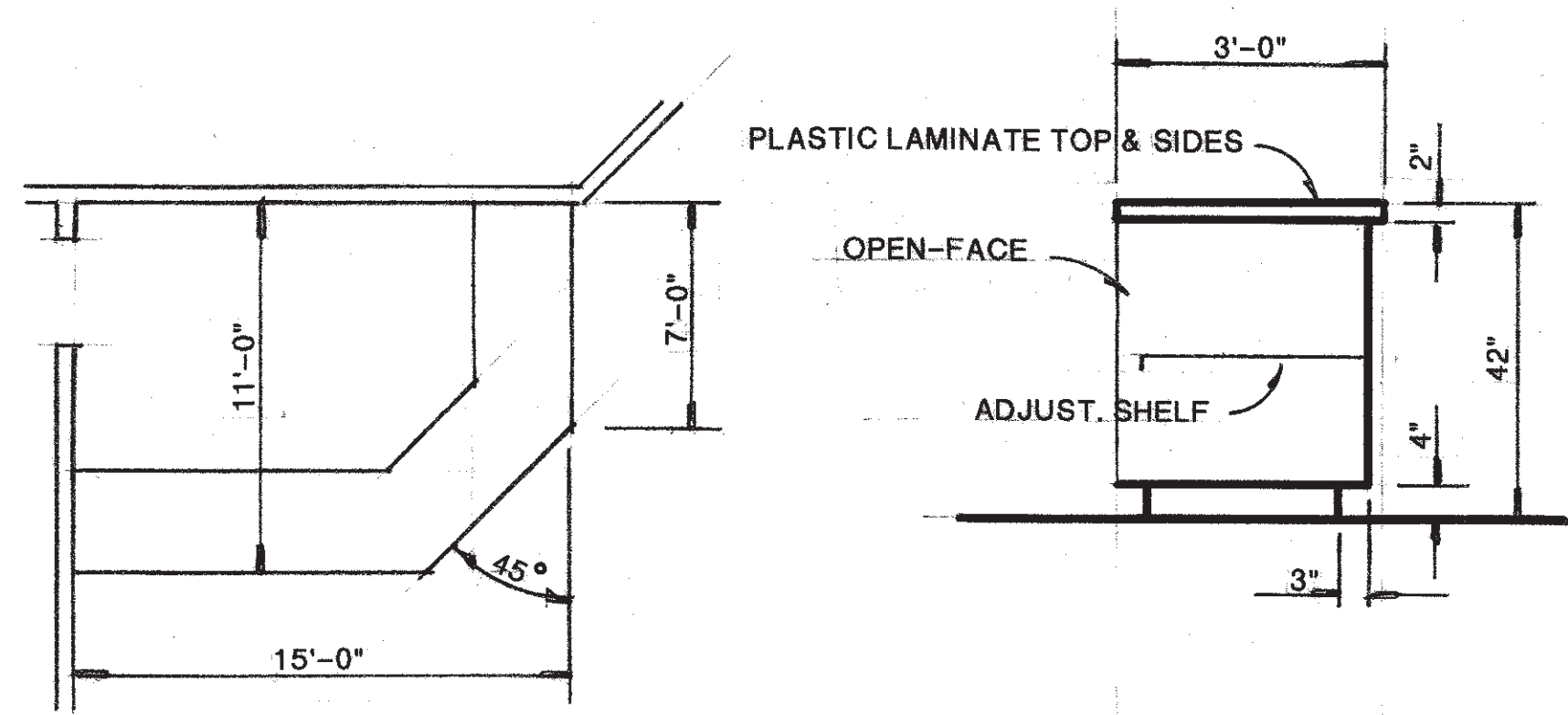


Ⓞ WORK CABINET PLAN SCALE: 3/16" EQ. 1'-0"

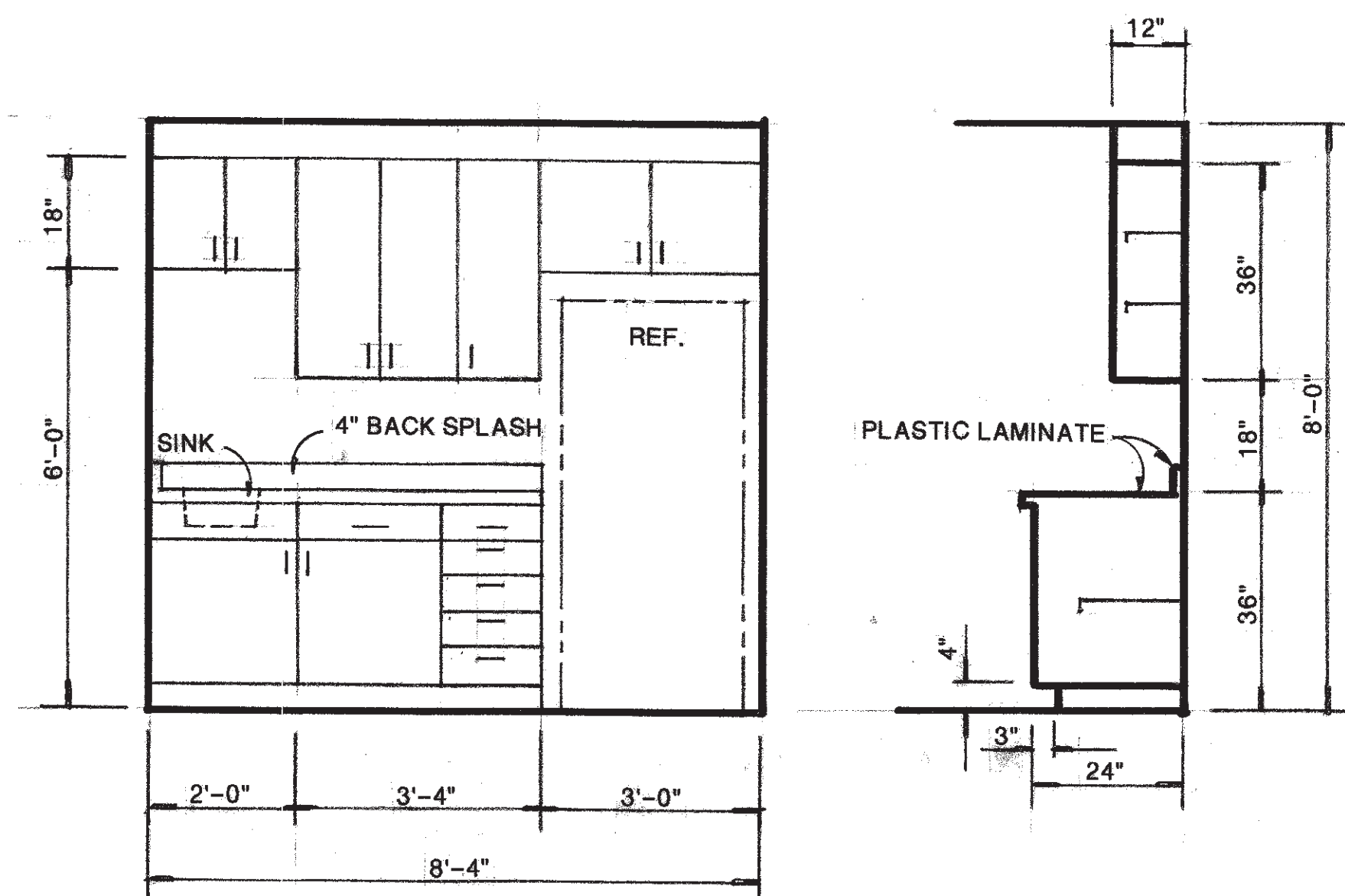


Ⓞ WORK CAB. DET. SCALE: 1/2" EQ. 1'-0"

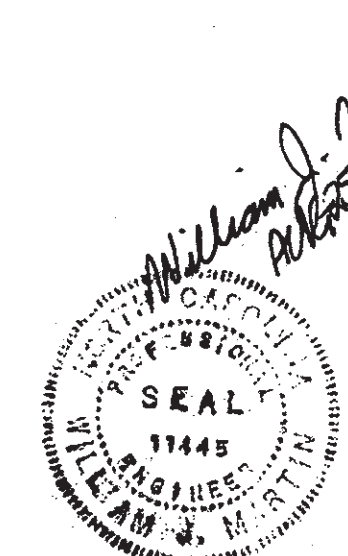
Ⓟ PARTS STG. BINS SCALE: 1/2" EQ. 1'-0"



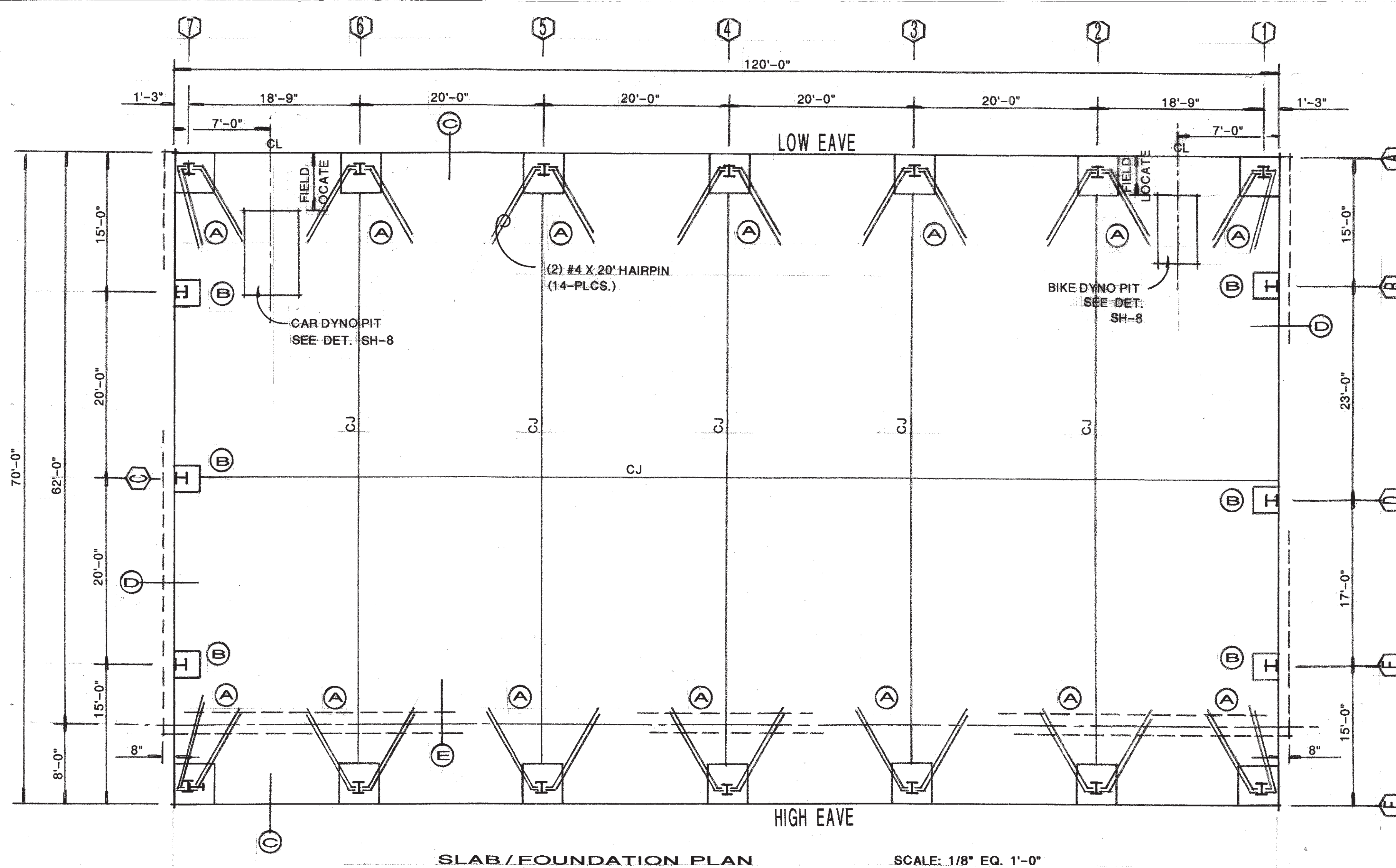
Ⓝ CASHIER COUNTER DET.



Ⓠ KIT. CABINET DET.



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SLAB / FOUNDATION PLAN SCALE: 1/8" EQ. 1'-0"

FOUNDATION NOTES

FOUNDATIONS ARE DESIGNED FOR A PRE-ENGINEERED STEEL BUILDING AS SET FORTH BY THE BUILDING MANUFACTURER :

- GENERAL**
- THESE NOTES SHALL BE USED IN CONJUNCTION WITH AND COORDINATED WITH THE BLDG. MFR. DRAWINGS AND OTHER CONTRACT DOCUMENTS.
 - DESIGN LOADS**
 ROOF: SEE PREENGINEERED BUILDING DESIGN LETTER
 FLOOR: SEE PREENGINEERED BUILDING DESIGN LETTER
 WIND: SEE PREENGINEERED BUILDING DESIGN LETTER
 SEISMIC: SEE PREENGINEERED BUILDING DESIGN LETTER

THE GENERAL CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL SLEEVES, PADS, DEPRESSIONS, OPENINGS EC. AS REQUIRED BY THE VARIOUS TRADES.

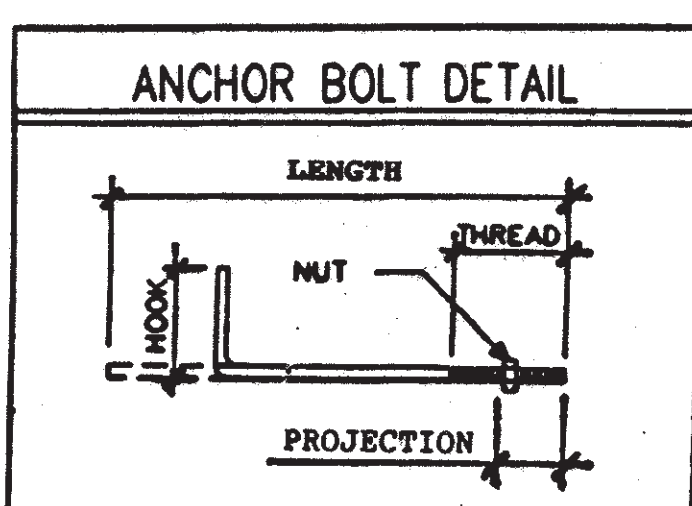
- FOUNDATIONS**
- BEARING 3000 PSF PRESUMPTIVE. NO CUT FILL OVER 5 FT. WITHOUT TESTING BY GEOTECHNICAL ENGINEER.
 - FILL MATERIAL TO BE FREE OF DEBRIS, ROOTS AND ORGANIC MATERIAL. FILL TO BE PLACED AND COMPACTED TO 95 PERCENT DENSITY PER ASTM D-698.

- CONCRETE**
- ALL CONCRETE SHALL HAVE ASTM AGGREGATE WITH MAXIMUM UNIT WEIGHT OF 150 PCF. COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.

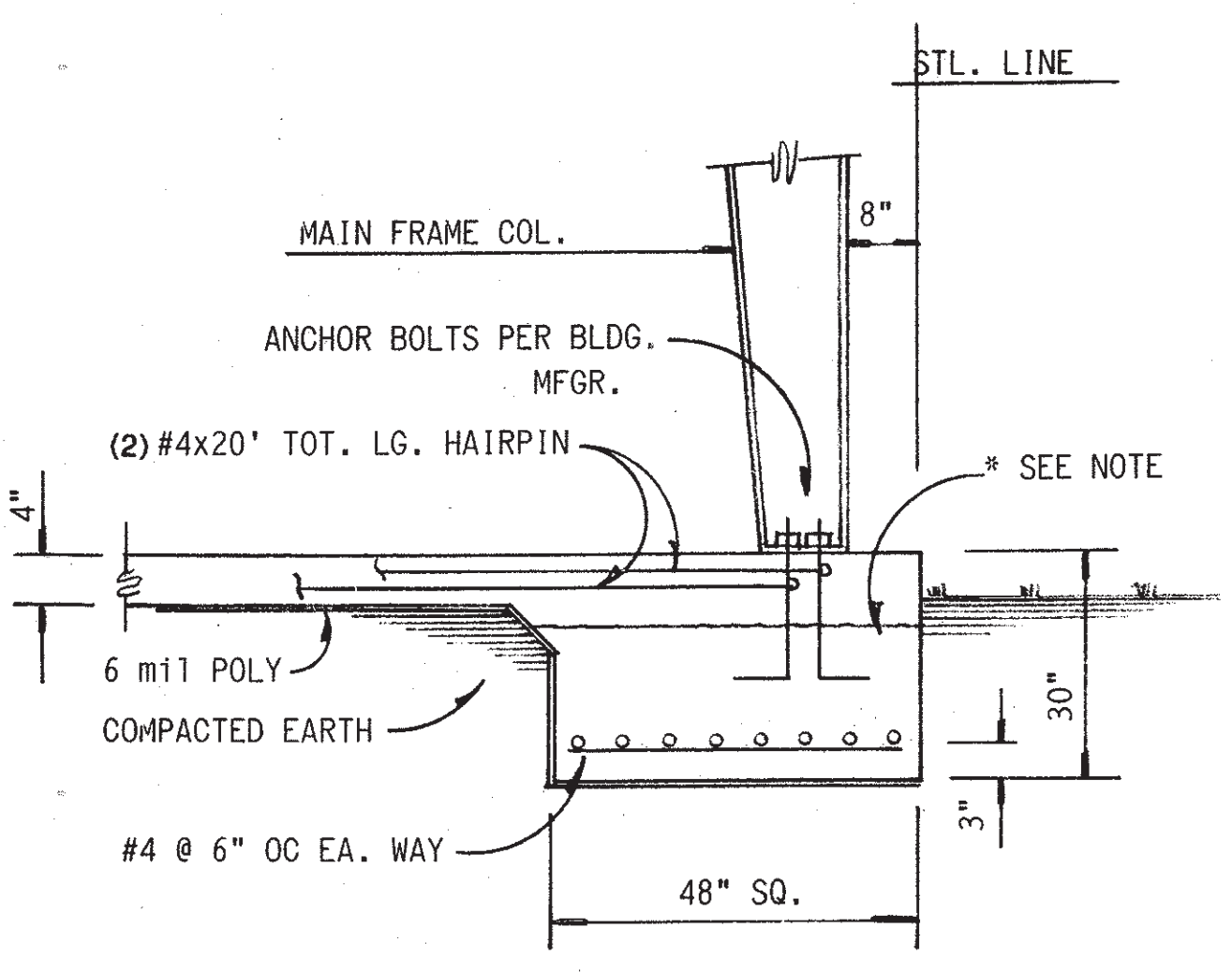
- REINFORCING STEEL**
- REINFORCING STEEL SHALL BE NEW BILLET STEEL, DEFORMED BARS CONFORMING TO ASTM A-615 GRADE 60
 - ALL CONTINUOUS BARS SHALL BE LAP SPliced 36 DIA.
 - CONCRETE COVERAGE 3 INCHES
 - PROVIDE HORIZONTAL CORNER BARS AT CORNERS AND INTERSECTIONS OF WALLS, BEAMS AND FOOTINGS. LAP SPICES 26 BAR DIA.

- CONCRETE MASONRY**
- CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C 90 COMPRESSIVE STRENGTH OF UNITS SHALL BE A MINIMUM OF 2000 PSI BASED ON NET AREA FOR HOLLOW LOAD BEARING UNITS.
 - USE TYPE M OR S MORTAR. TYPE M MORTAR SHALL HAVE AN AVERAGE COMPRESSIVE STRENGTH AT 28 DAYS OF 2500 PSI AND TYPE S MORTAR 1800 PSI.
 - GROUT FILL SHALL BE 3000 PSI CONFORMING TO ASTM C476 TYPE PM. FINE GROUT SHALL BE USED WHEN CORE SPACE IS LESS THAN 3 INCHES. COARSE GROUT WITH AGGREGATE FROM 1/2" TO #4 NOMINAL SIZE, SHALL BE USED WHEN CORE SPACE IS GREATER THAN 3 INCHES.

- STRUCTURAL**
- ALL STRUCTURAL STEEL WIDE FLANGE SECTIONS, ANGLES AND PLATES SHALL BE ASTM A36. PIPE SHAPES SHALL BE ASTM A53.
 - PRE-ENGINEERED BUILDING MANUFACTURER SHALL SUBMIT DESIGN DATA, ERECTION DRAWINGS
 - ANCHOR BOLTS (QUANTITIES & SPACING PER BUILDING MFR)
 DIAMETER: 3/4"
 LENGTH: 26"
 THREAD: 3"
 HOOK: 4"
 PROJECTION: 2 1/2"

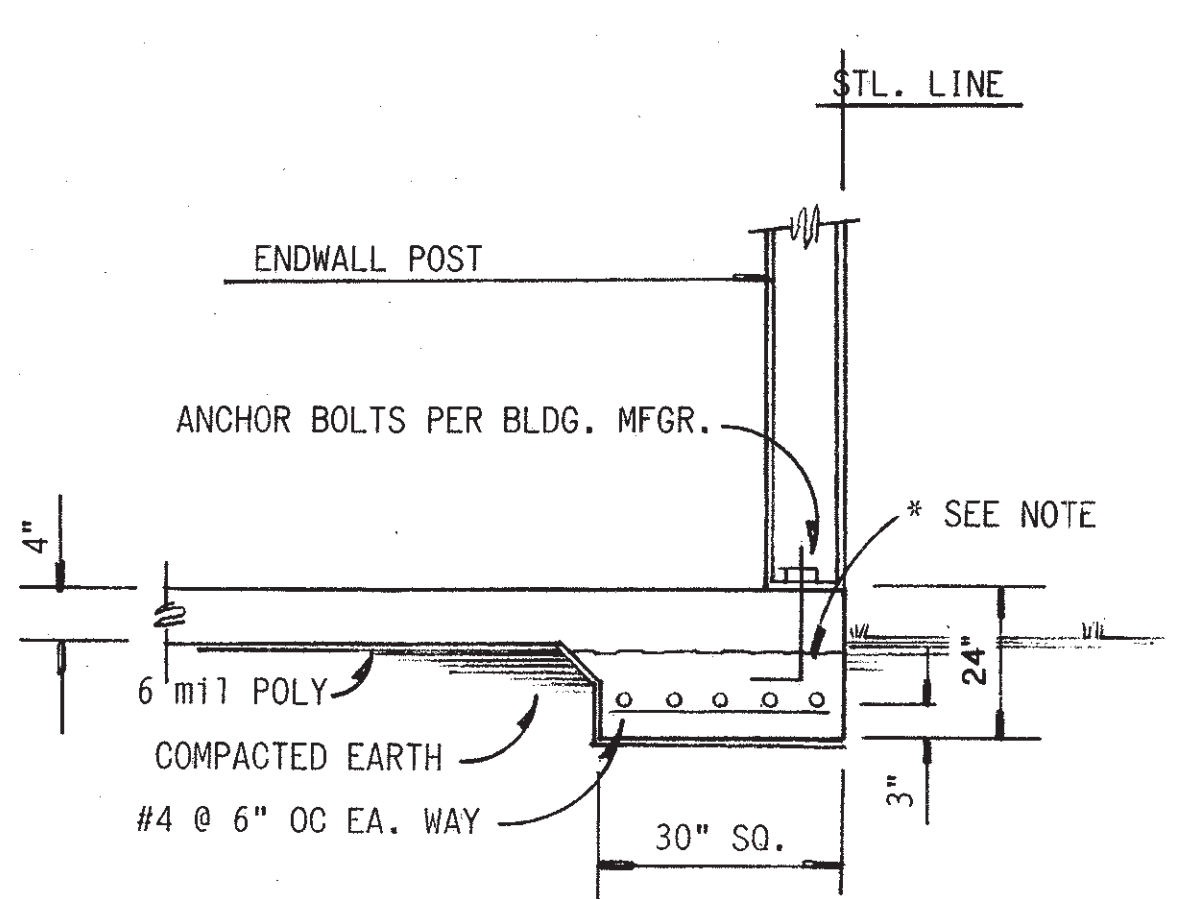


ANCHOR BOLTS FOR PERSONNEL DOORS, OH DOORS, AND WINDOWS TO BE FIELD LOCATED AND INSTALLED WITH (4 EA.) 1/2"x6" EXPANSION BOLTS.



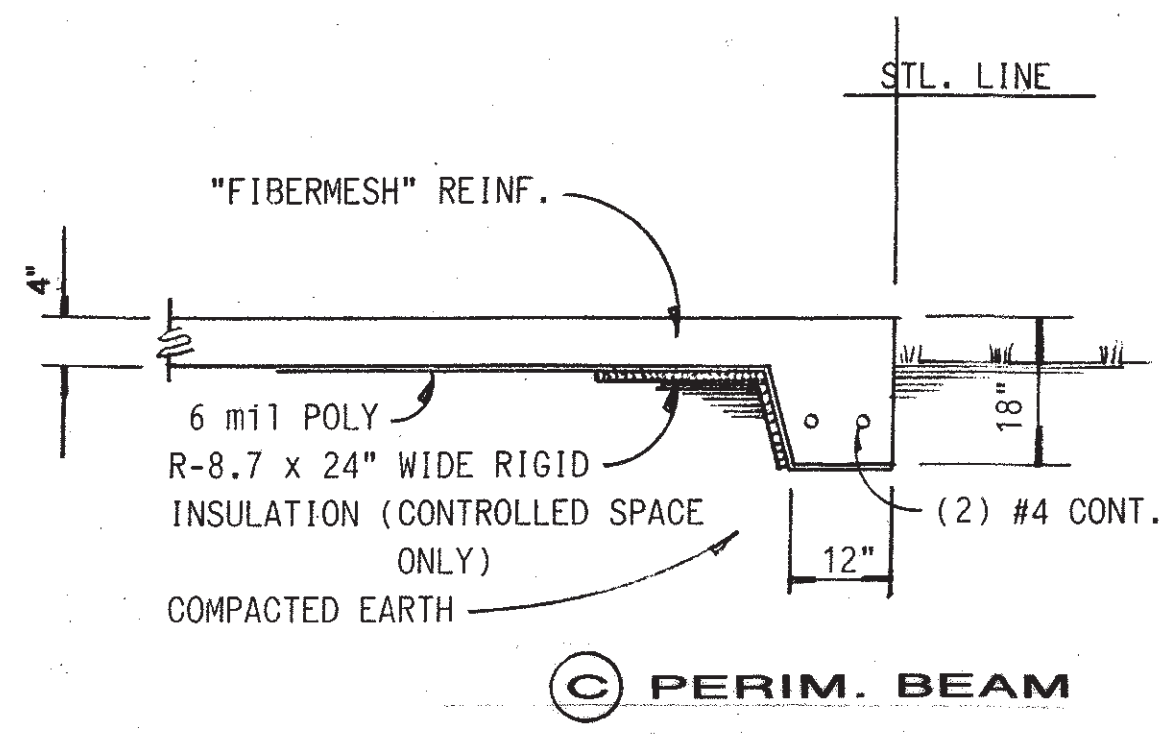
A MAIN FRAME PIER

* NOTE: SLAB/FTG. IS MONOLITHIC IN NATURE, BUT CONCRETE MAY BE PLACED SEPARATELY, SO LONG AS AT LEAST 50% OF ANCHOR BOLTS ARE ENGAGED IN FIRST POUR, AND FIRST POUR SURFACE IS LEFT UNFINISHED, FOR POSITIVE LATERAL BONDING.

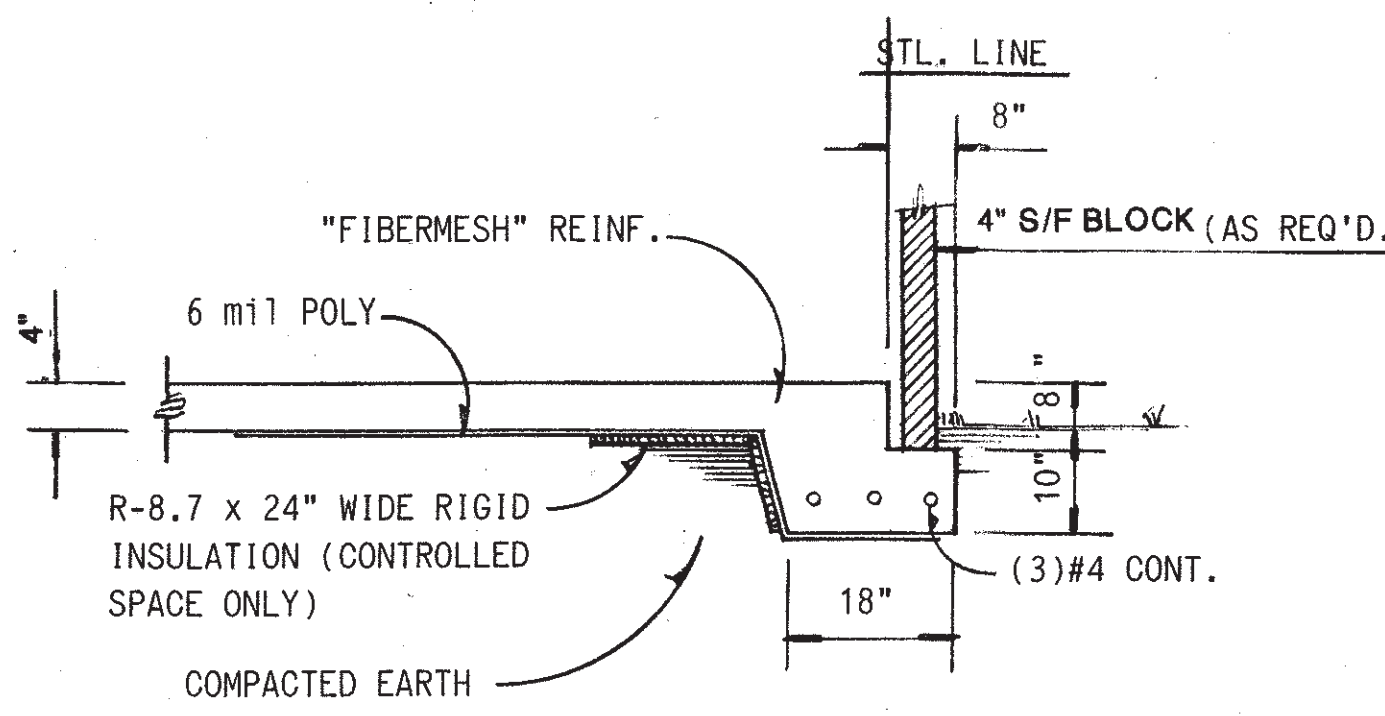


B ENDWALL POST PIER

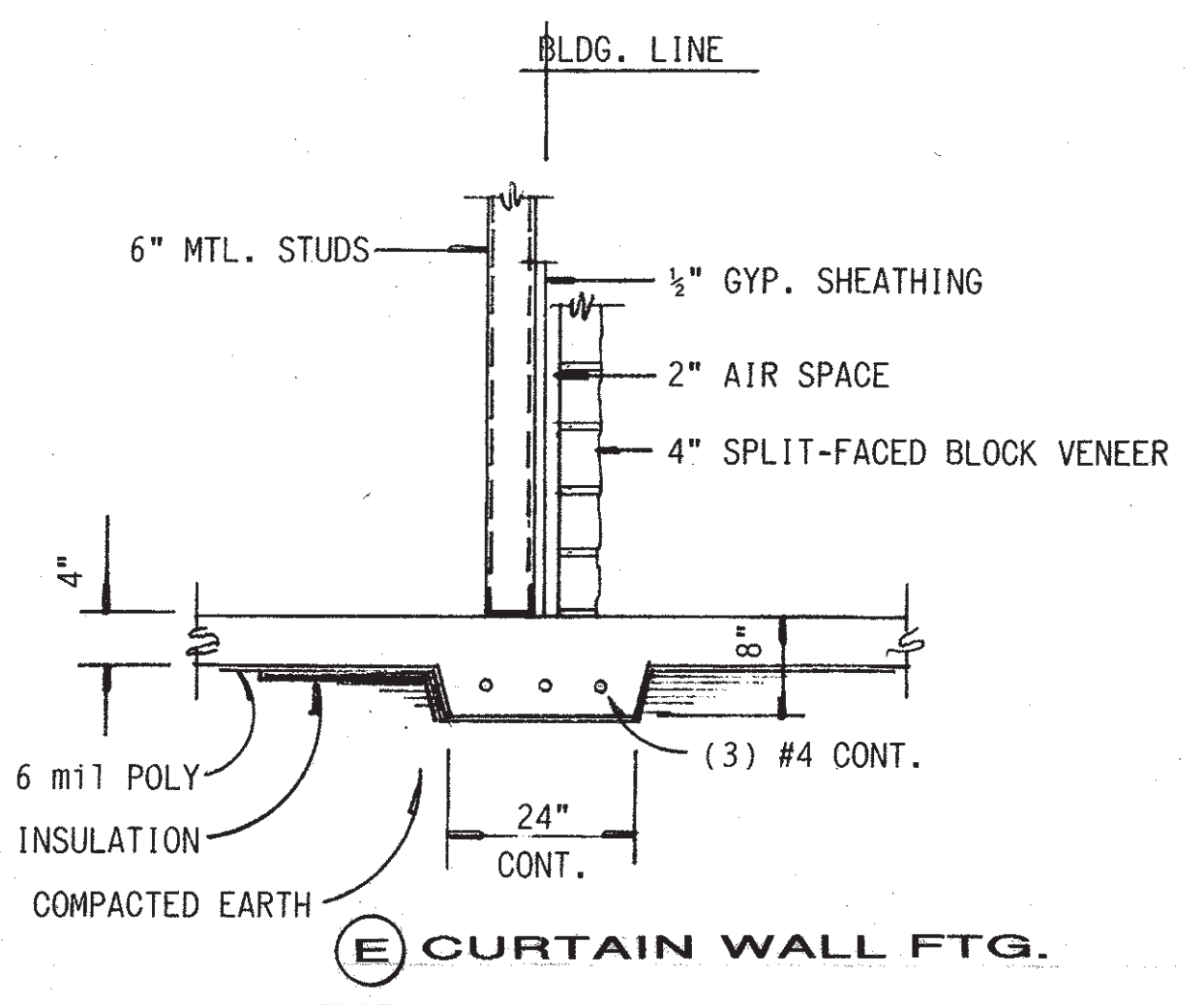
* NOTE: SLAB/FTG. IS MONOLITHIC IN NATURE, BUT CONCRETE MAY BE PLACED SEPARATELY, SO LONG AS AT LEAST 50% OF ANCHOR BOLTS ARE ENGAGED IN FIRST POUR, AND FIRST POUR SURFACE IS LEFT UNFINISHED, FOR POSITIVE LATERAL BONDING.



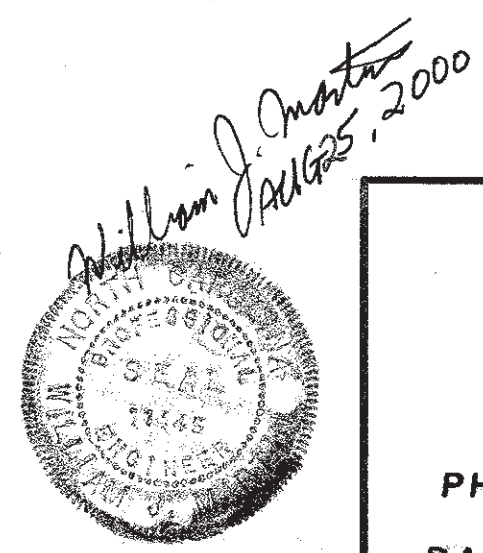
C PERIM. BEAM



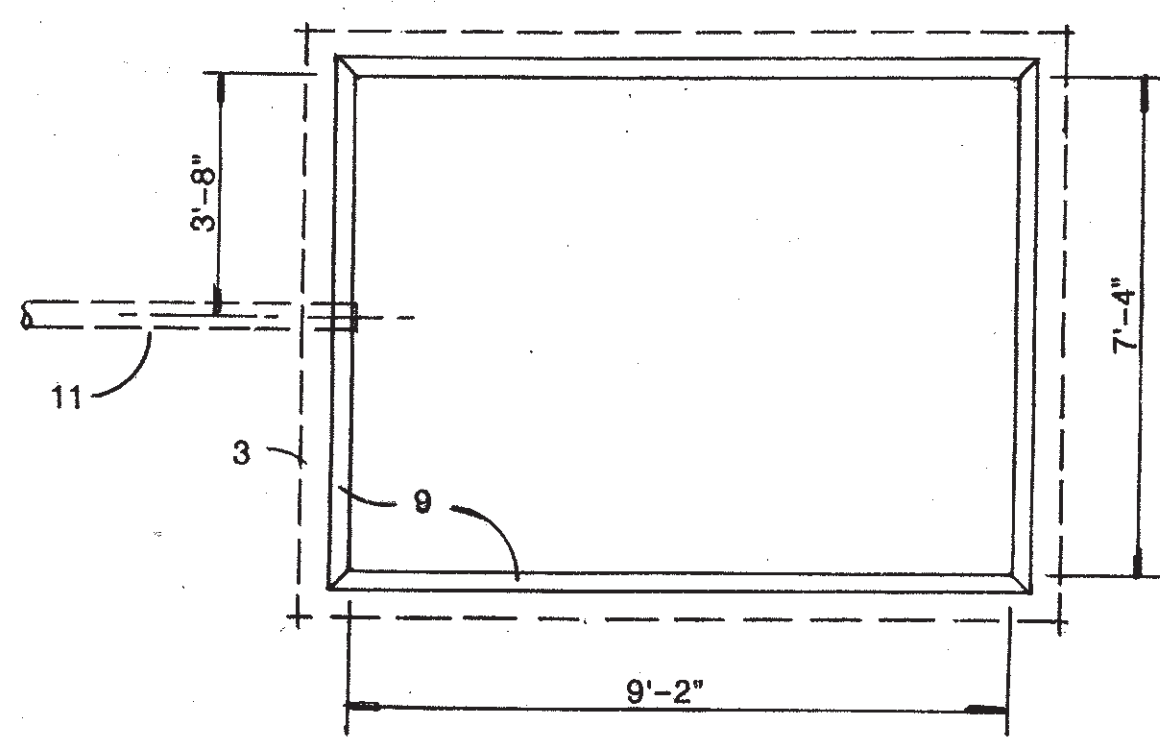
D FTG. @ MASONRY



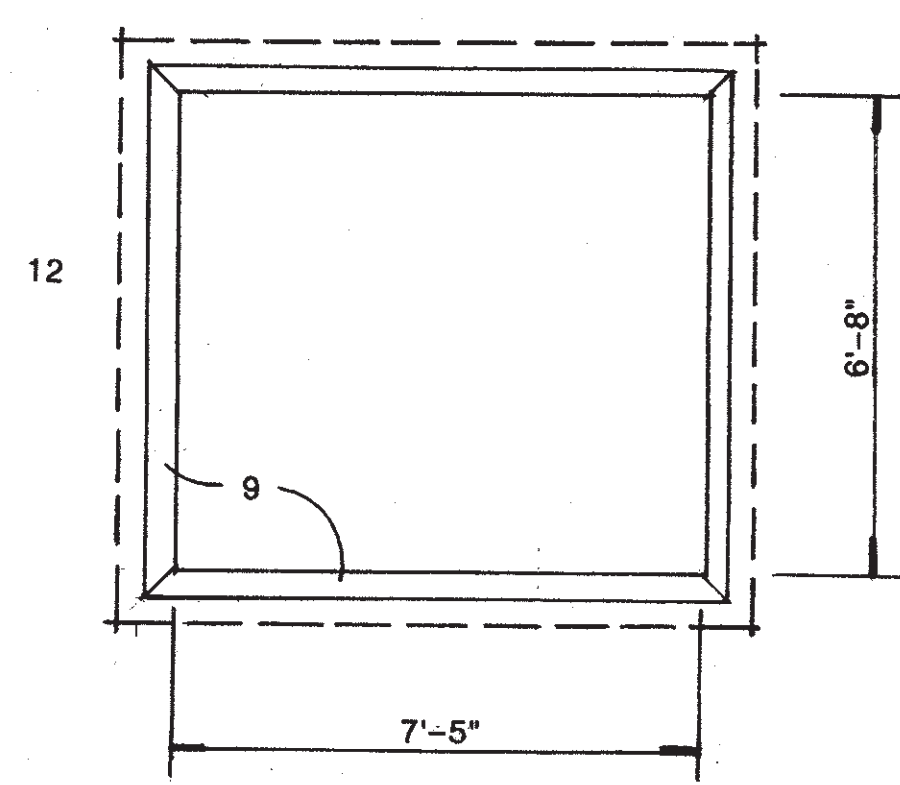
E CURTAIN WALL FTG.



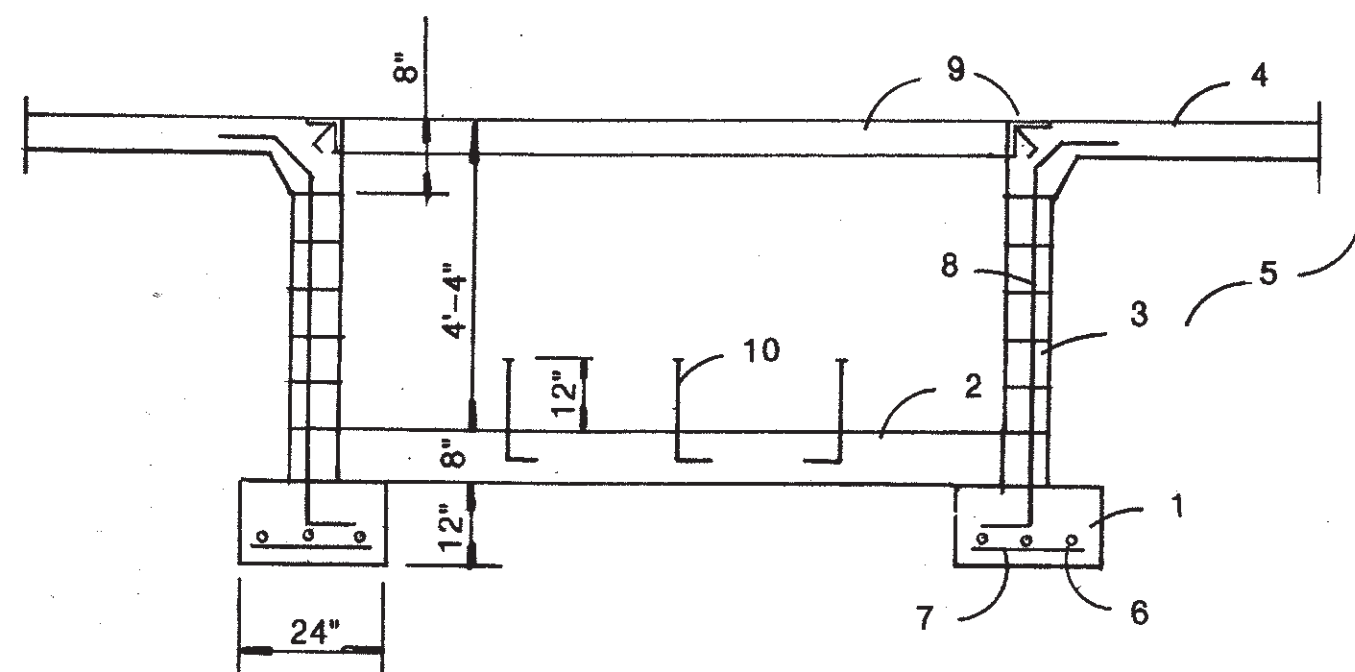
<p>SCOTT DESIGN CENTER PO BOX 470095 CHARLOTTE, NC 28247 PHONE: 704-542-7689 DATE: 8-25-00</p>	<p>LEE'S PERFORMANCE CENTER, INC. OLD STATESVILLE RD CHARLOTTE, NC 28269</p>	<p style="font-size: 2em; text-align: center;">7</p> <p style="text-align: right;">OF 14</p>
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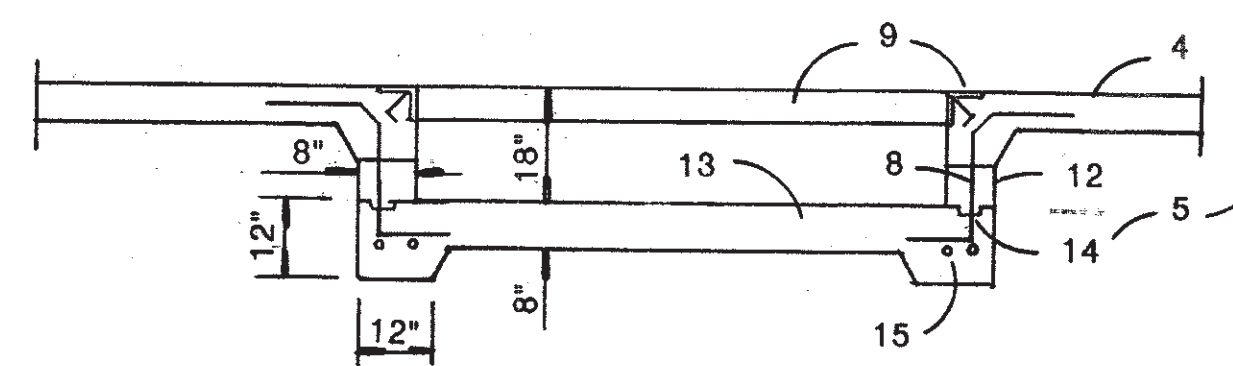
PLAN



PLAN



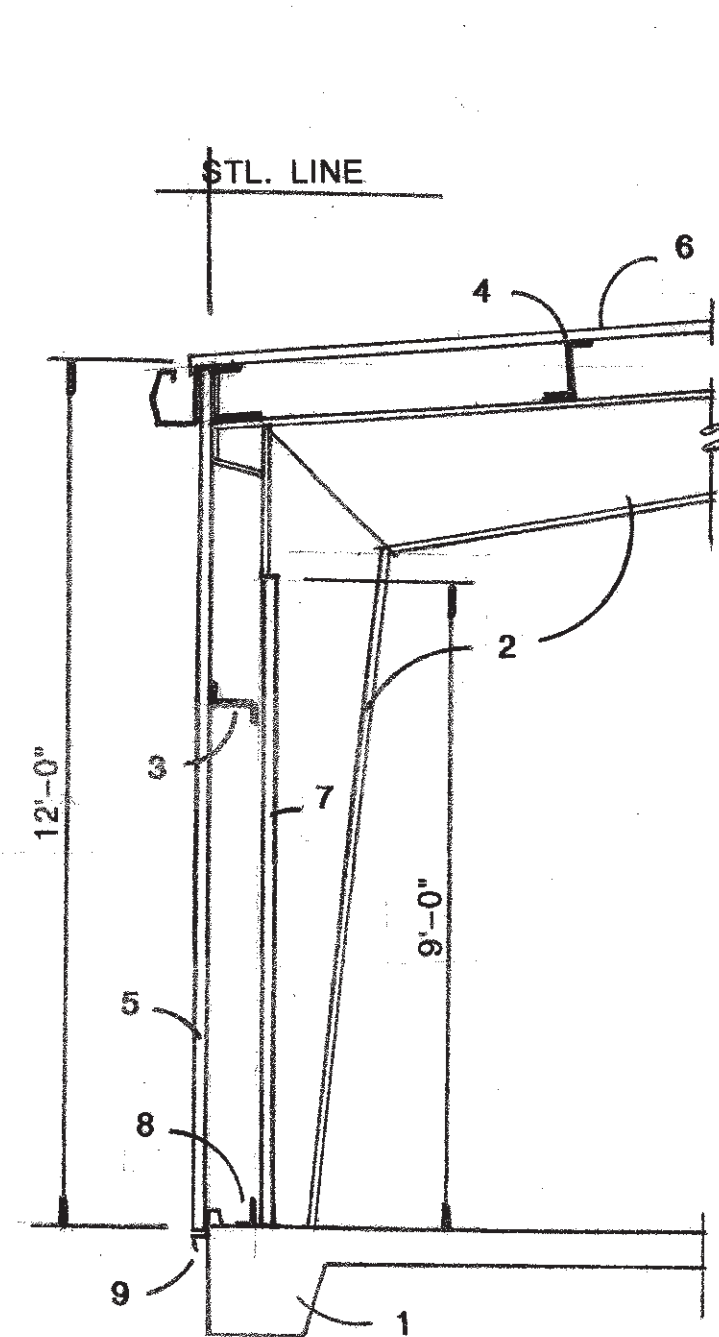
CAR DYNO PIT



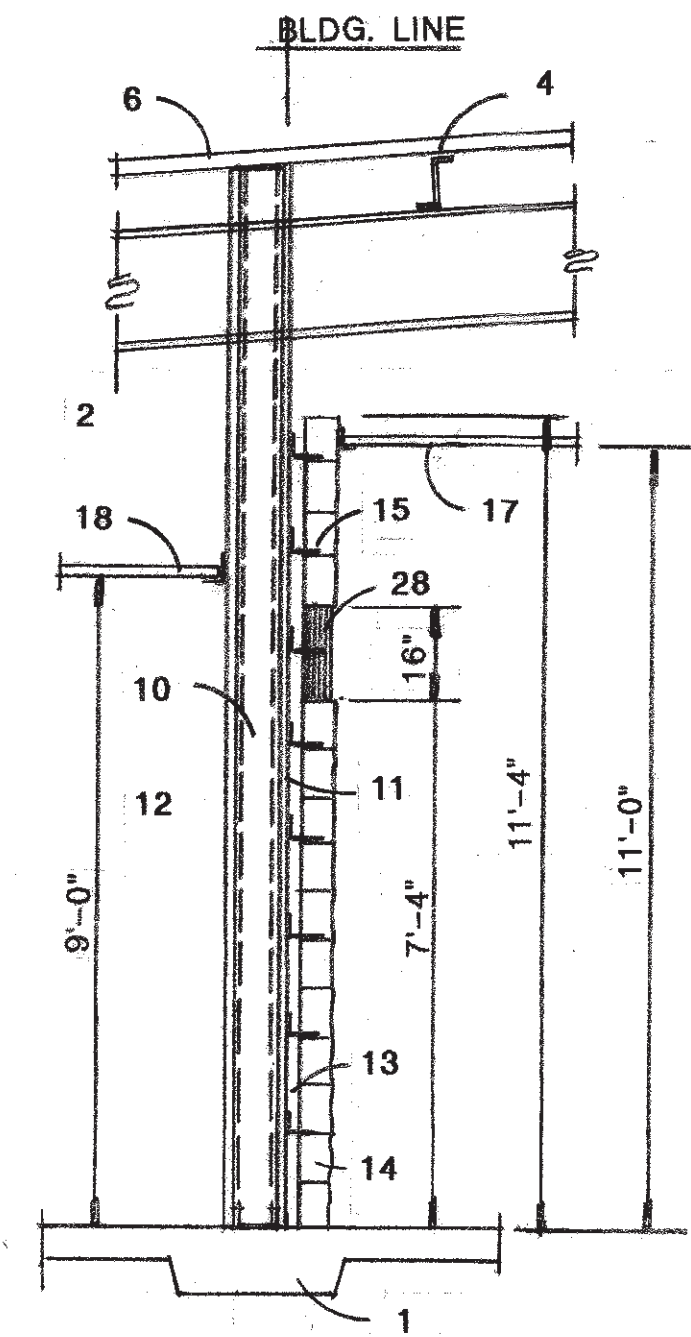
BIKE DYNO PIT

DYNO PIT LEGEND

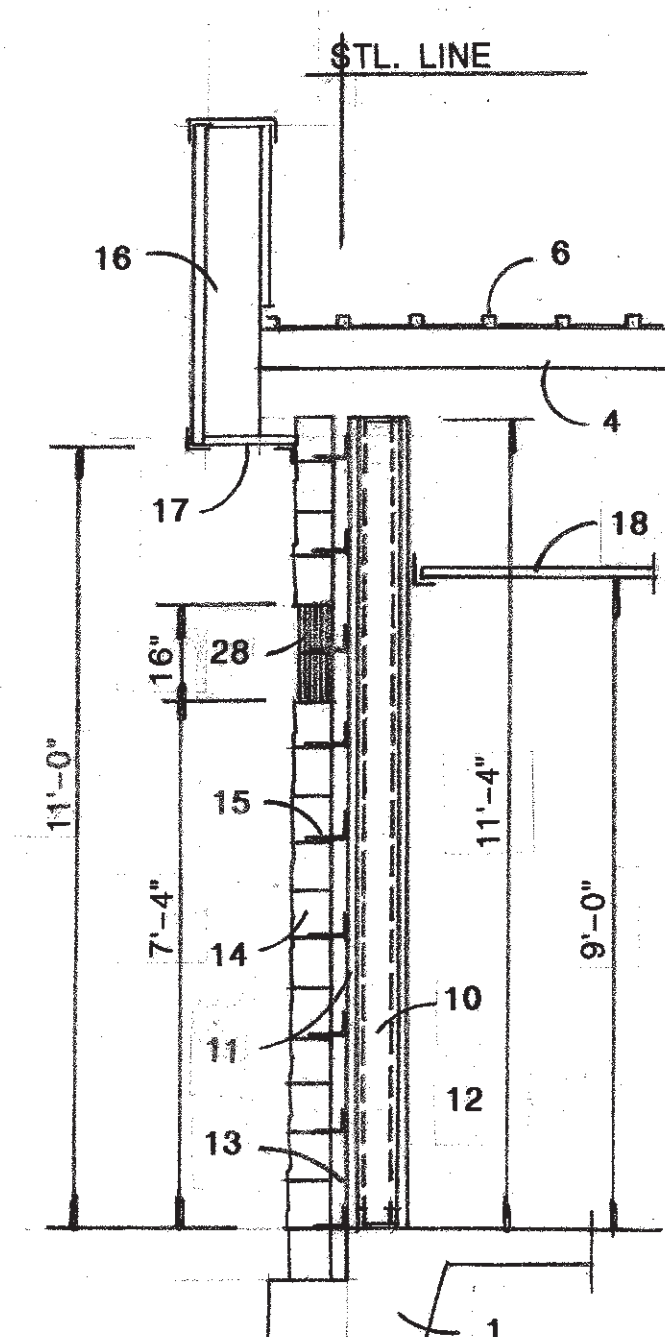
1. CONTINUOUS CONCRETE FOOTING
2. 8" CONCRETE SLAB @ PIT FLOOR
3. 8" CMU FILLED SOLID WITH CONCRETE. USE "DUROWAL REINF. @ 16" OC
4. 4" BUILDING FLOOR SLAB (REF)
5. COMPACTED EARTH
6. 3-#4 REBAR CONTINUOUS
7. #4 REBAR @ 24" OC
8. #5 REBAR @ 24" OC VERTICAL, W/12" HOOK @ TOP & BOTTOM
9. 4"x4"x1/2" ANGLE CONTINUOUS AROUND TOP EDGE OF PIT, W/1/2"x6" WELDED ANCHORS @ 24" OC, @ 45°
10. 1" DIA. x 24" TOTAL LG. ANCHOR BOLTS, THREADED 12" EXPOSURE, 4" HOOK. QUANTITIES & LOCATIONS PER "DYNOJET" MFGR.
11. 4" PVC CONDUIT 12" BELOW FINISHED BLDG. FLOOR. ORIENTATION PER "DYNOJET" MFGR.
12. 8" THICK CAST-IN-PLACE CONCRETE RETAINING WALL
13. 8" MONOLITHIC CONCRETE SLAB AT PIT FLOOR
14. 2"w x 1" dp KEYWAY CONTINUOUS
15. 2-#4 REBAR CONTINUOUS



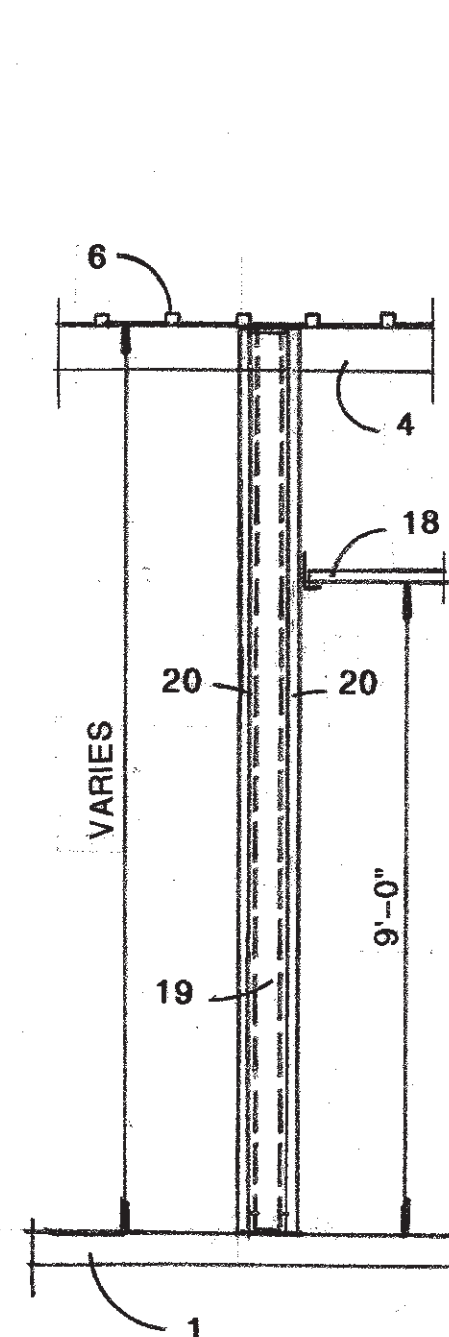
REAR WALL SECT.



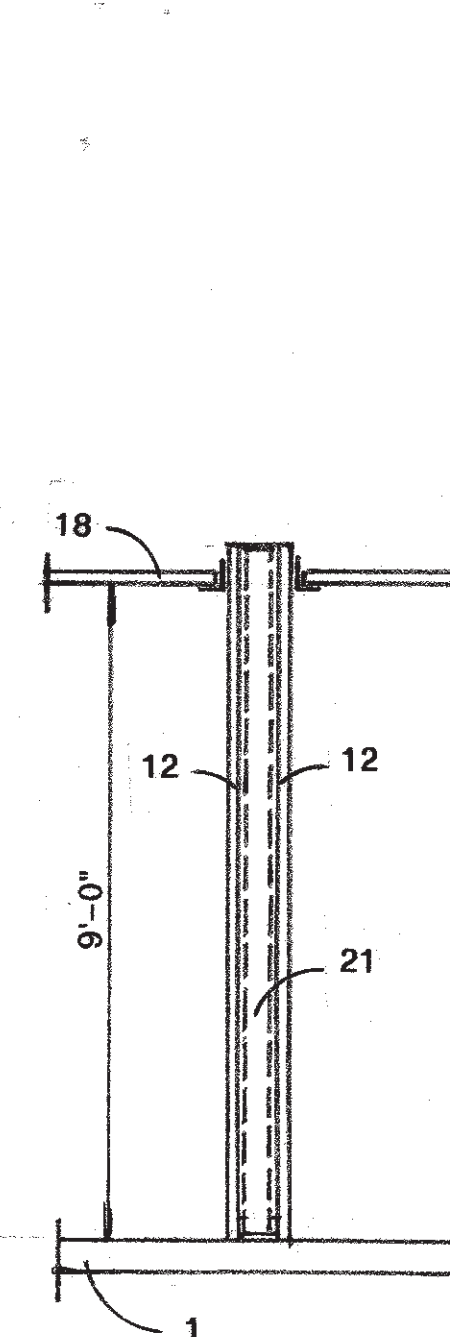
FRONT WALL SECT.



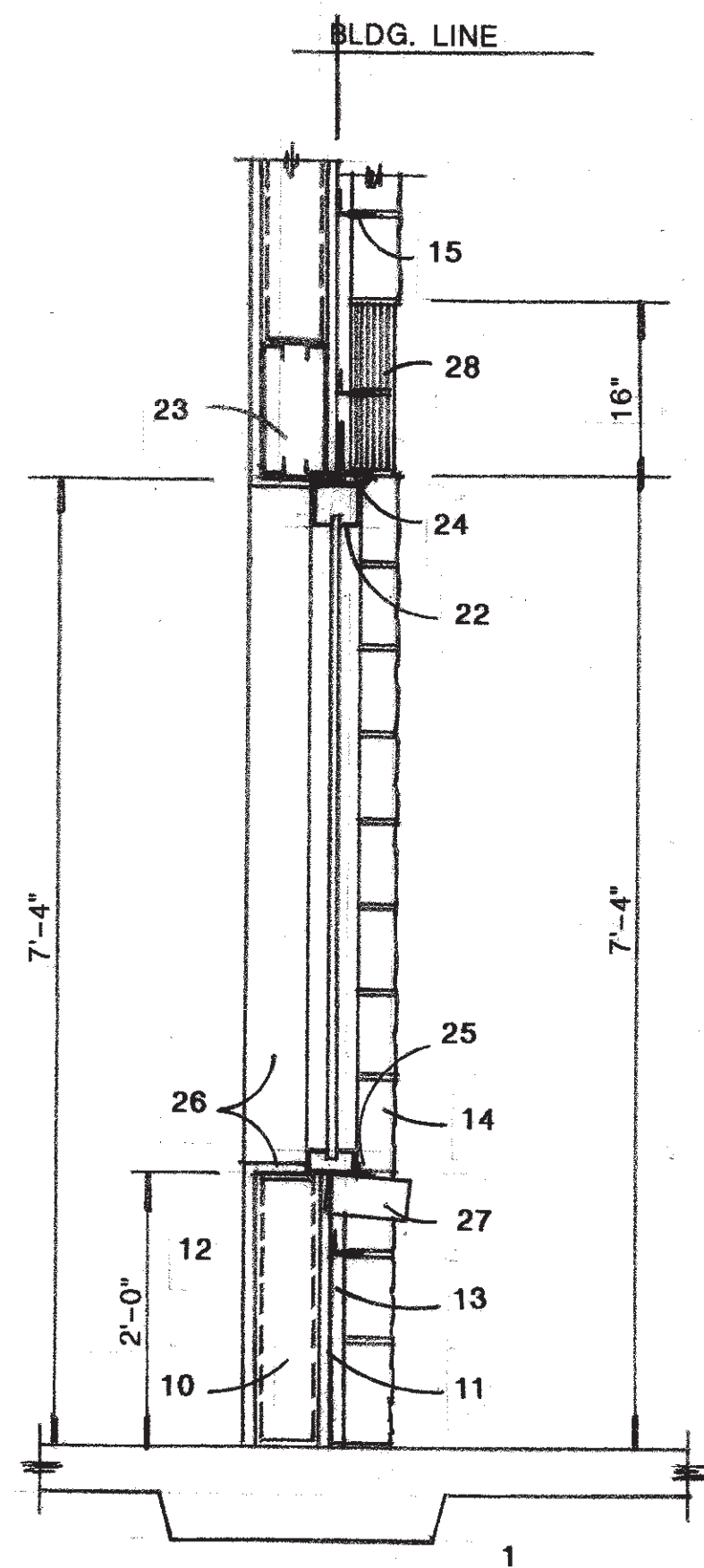
ENDWALL SECT.



1-HR. WALL SECT.



PARTITION DET.

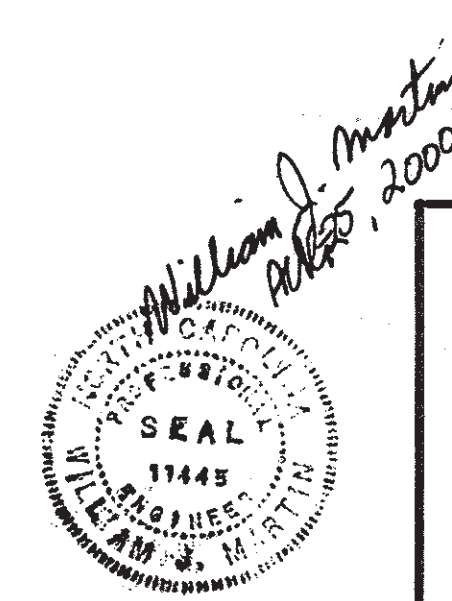




STOREFRONT DETAIL

EXT. DOOR DET. SIMILAR

WALL SECTION LEGEND

1. SLAB/FOUNDATION (REF.). SEE FOUNDATION DETAILS
2. BUILDING MAIN FRAME (SEE BLDG. MFGR. DWGS.)
3. 8" "Z" GIRTS
4. 8" "Z" PURLIN
5. METAL WALL PANEL
6. METAL ROOF PANEL
7. METAL INTERIOR LINER PANEL
8. BASE ANGLE
9. BASE TRIM
10. 6C20 METAL STUDS @ 16" OC, WITH TOP & BOTTOM TRACK
11. 1/2" GYP. SHEATHING
12. 1/2" GYPSUM WALL BOARD
13. 2" AIR SPACE
14. 4" SPLIT-FACED BLOCK VENEER
15. MTL. MASONRY TIES @ 16" OC EACH WAY
16. METAL FASCIA SYSTEM (SEE BLDG. MFGR. DWGS.)
17. METAL SOFFIT (SEE BLDG. MFGR. DWGS.)
18. 2'x2' ACOUSTICAL CEILING SUSPENDED IN PREFINISHED MTL. GRID SYSTEM
19. 4C20 METAL STUDS @ 16" OC, WITH TOP & BOTTOM TRACK
20. 5/8" FX FIRECODE GYPSUM WALL BOARD
21. 3-5/8" 25-GA. METAL STUDS @ 16" OC
22. 2"x4" BRONZE FINISHED ALUM. TUBING STORE FRONT FRAME W/4" HEAD. DG INSULATING FIXED GLASS
23. (2) 12C16 METAL JOIST BOXED HEADER. MIN. BRG. 8" EACH END OVER (4) JACK STUDS
24. 6"x4"x3/8" LINTEL ANGLE. MIN. 8" BEARING EACH END
25. CAULKING ALL AROUND
26. SHEET ROCK RETURN
27. 4" CONCRETE BRICK ROWLOCK SILL
28. (2-COURSES) 4" CONCRETE BLOCK VENEER, SMOOTH-FACED FOR ACCENT BAND

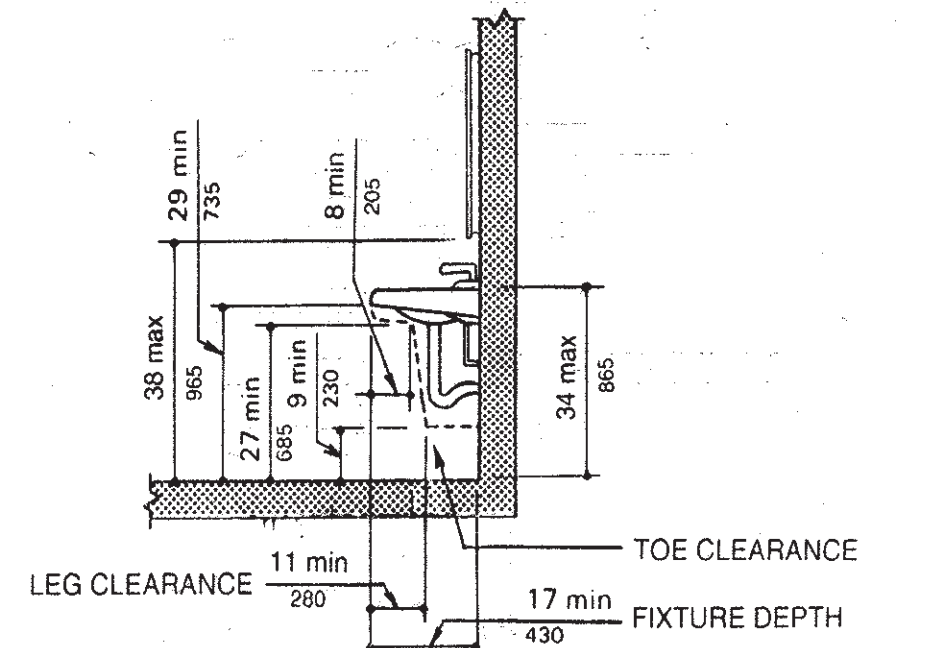
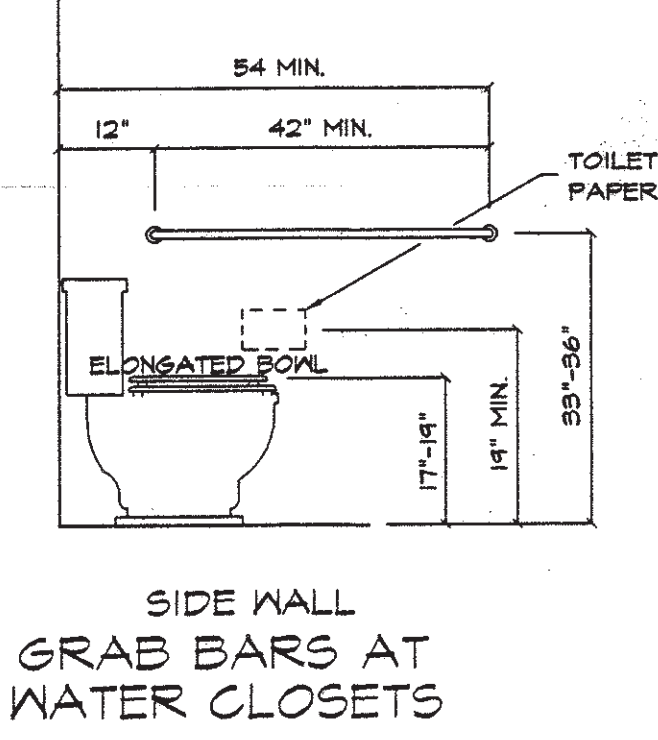
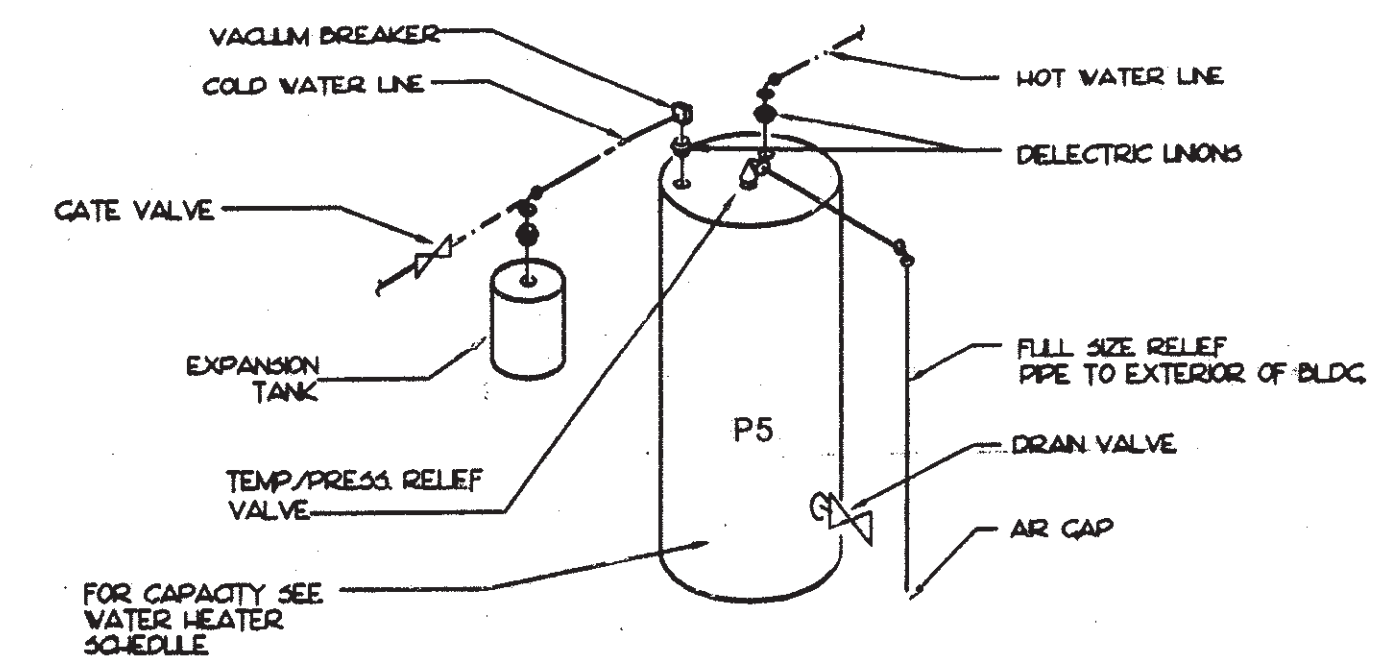
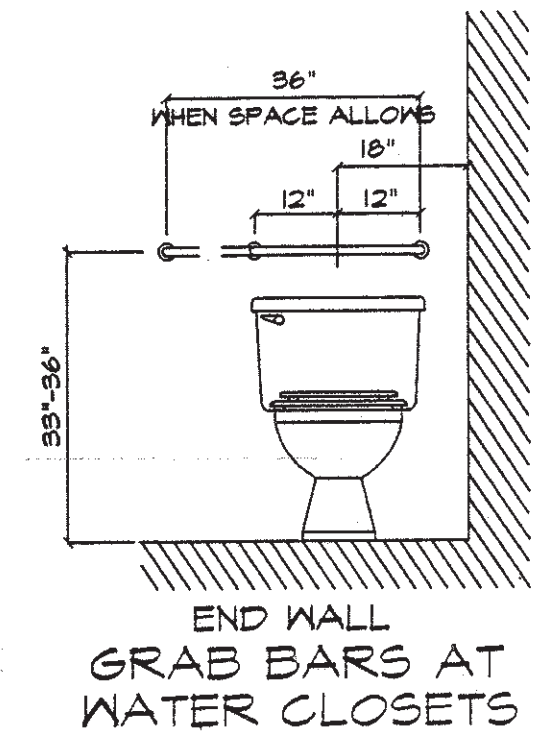
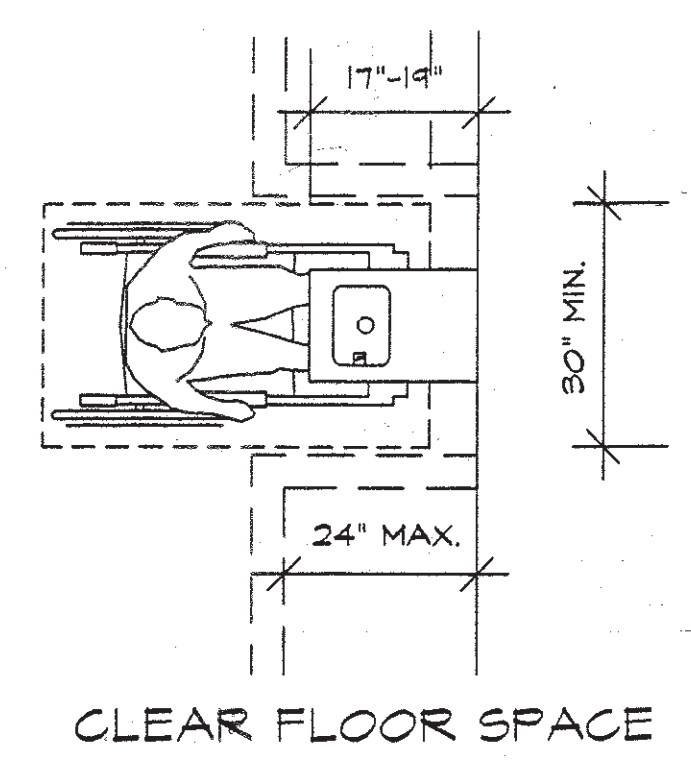
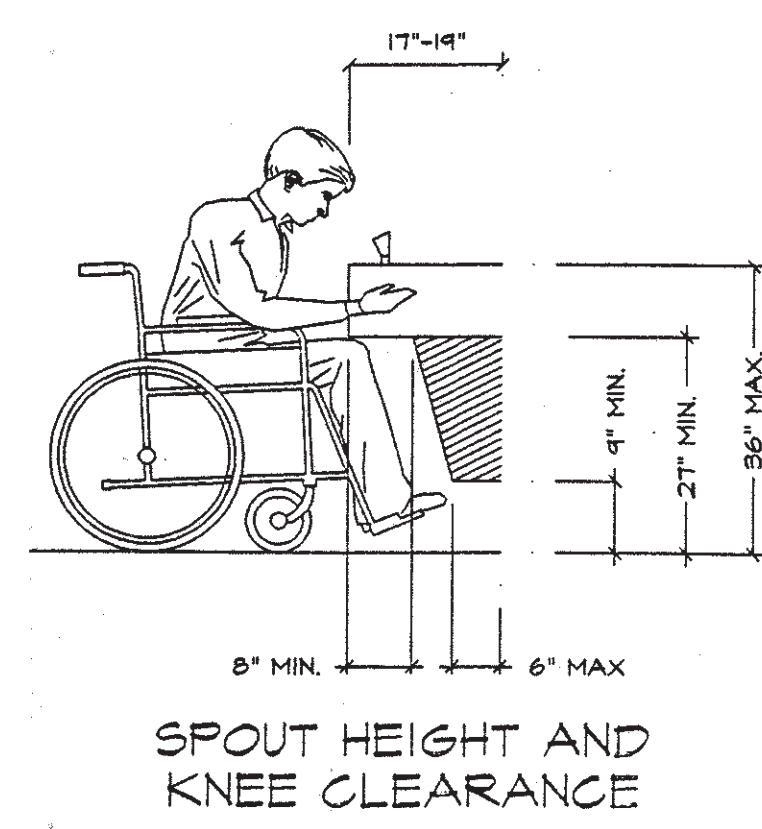
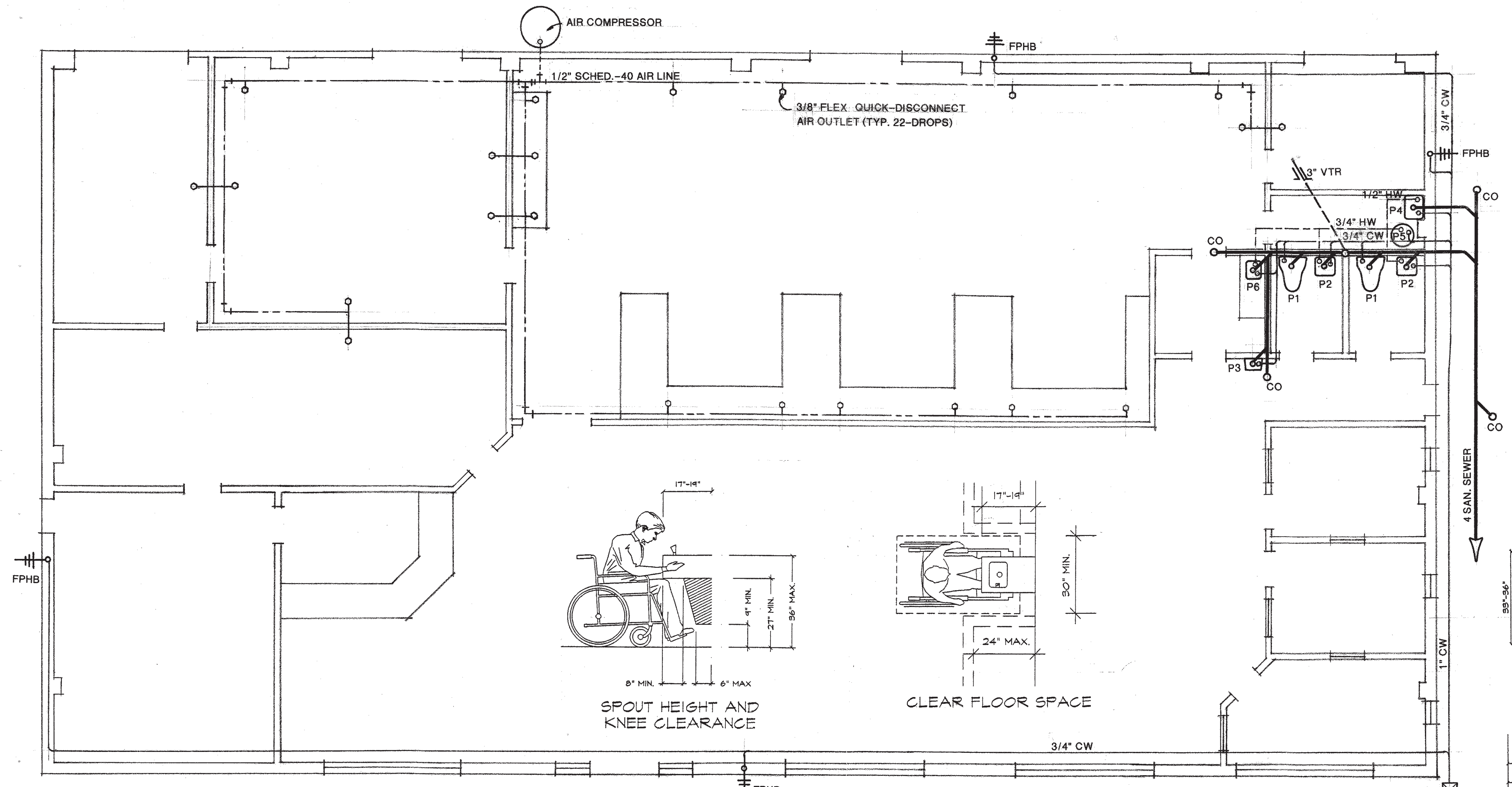


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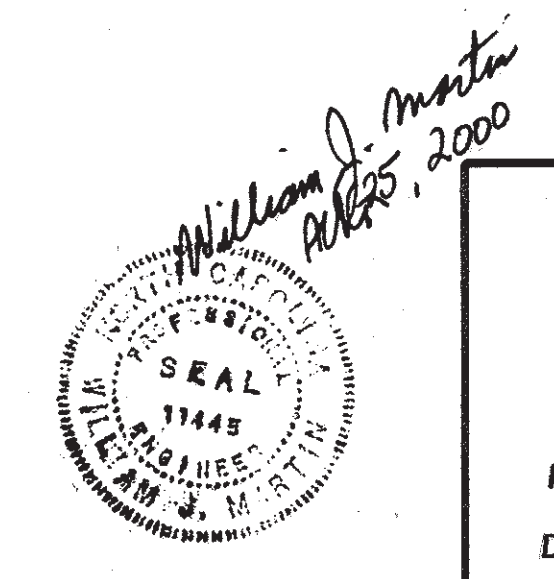
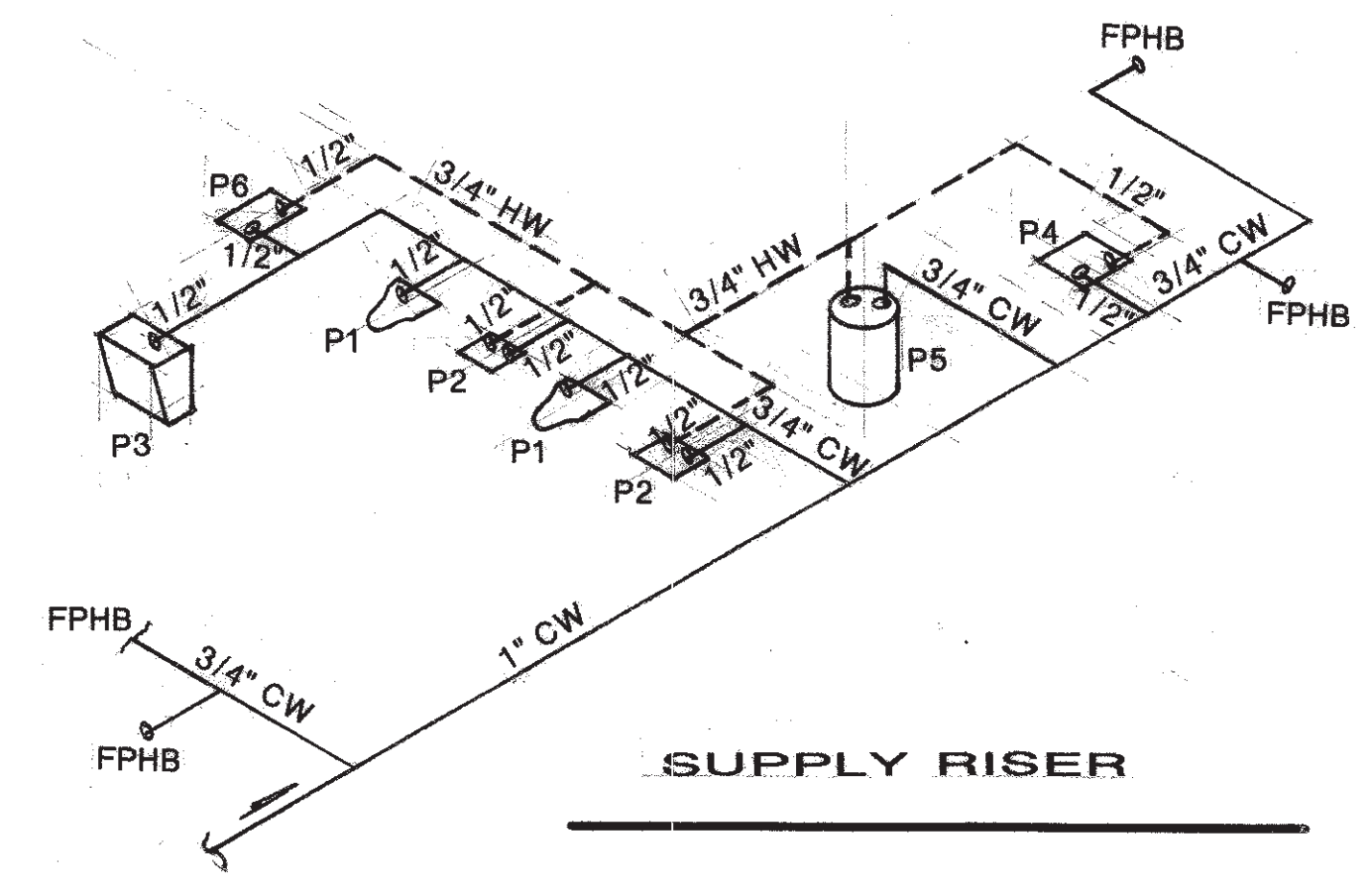
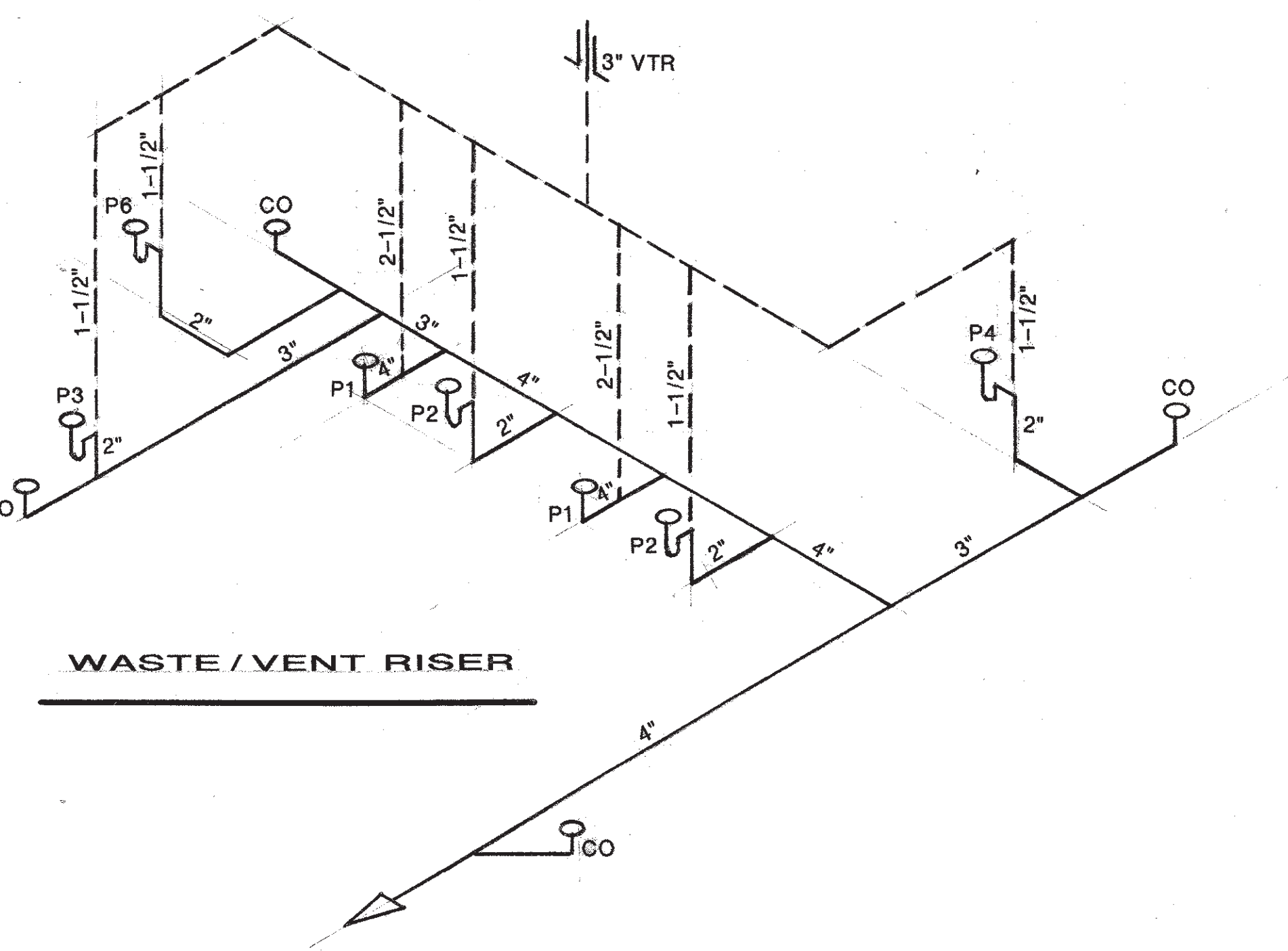
PLUMBING FIXTURE SCHEDULE

P-1	WATER CLOSET	ELJER 091-0415 TANK TYPE ELONGATED, WITH OPEN FRONT SEAT. LOW FLUSH TYPE. 1.66 PF
P-2	WALL HUNG LAVATORY	ELJER 051-1840, 20"x18" VITREOUS CHINA WITH 559-2020 FITTINGS, 1 1/4" CAST BRASS "P" TRAP.
P-3	ELECTRIC WATER COOLER	OASIS COMPACT OOP3M WALL HUNG, 2.7 GPH, MOUNTED @ 2'-10" AFF FOR WHEEL CHAIR ACCESS
P-4	MOP/MUD SINK	FIAT HSB 2424 FIBERGLASS WITH 830-AA SERVICE FAUCET WITH HOSE & BRACKET, 1 1/2" "P" TRAP.
P-5	ELECTRIC WATER HEATER	RHEEM 81KR-20 20-GAL. TOP FED. PROVIDE PRESSURE RELIEF VALVE & OVERFLOW DRAIN PIPING TO WITHIN 1-3/4" AFF.
P-6	SINGLE SINK	32"x21" STAINLESS STEEL SELF-RIMMING DROP IN, 1 1/4"x1 1/4" CAST BRASS DBL. "P" TRAP.
FPHB	FROST PROOF HOSE BIBB	HYDRAUT WOODFORD 25-CP
CO	CLEAN OUT	PLASTIC ODDITIES PCO-700
VTR	VENT THRU ROOF	PVC PIPE, SIZE AS SHOWN ON PLANS.

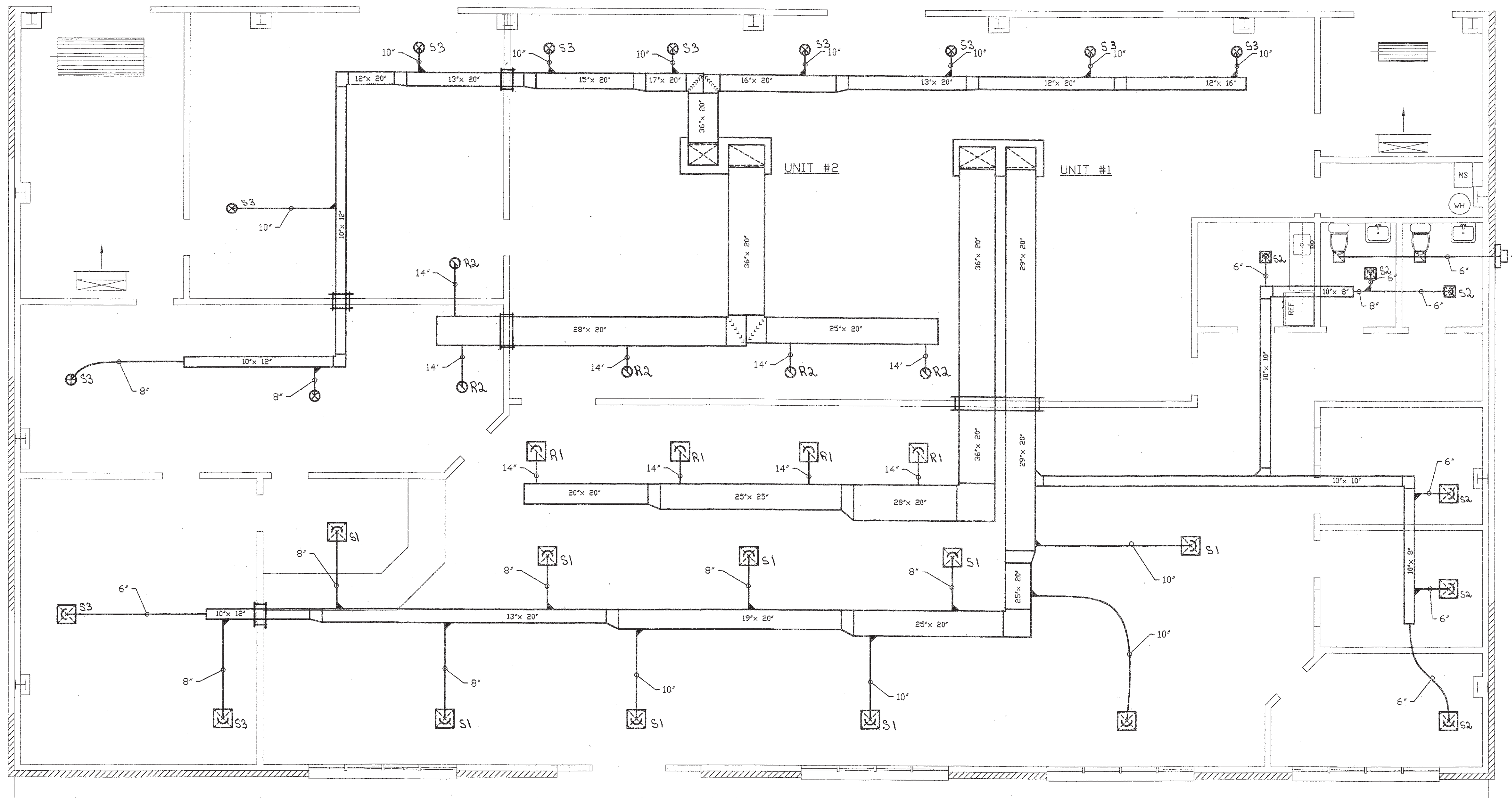
- NOTES:**
1. ALL SANITARY SEWER PIPING TO BE PVC.
 2. ALL HOT & COLD WATER SUPPLY LINES TO BE TYPE "L" HARD COPPER.
 3. ALL EXTERIOR CW LINES TO BE 1" POLYBUTYLENE PIPE.
 4. PROVIDE SHUT-OFF VALVE AT COLD WATER ENTRANCE TO BUILDING.
 5. PROVIDE SHUT-OFF VALVE AT HOT & COLD WATER ENTRANCES TO FIXT.
 6. INSTALL BACK FLOW PREVENTER BETWEEN WATER METER AND SUPPLY COLD WATER ENTRANCE TO BUILDING.



**PLUMBING SCHEMATIC
PNEUMATIC SCHEMATIC**



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HVAC PLAN

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT METHOD OF COMPLIANCE

Prescriptive (X) Energy Cost Budget ()

Thermal Zone 5

Exterior design conditions
Winter Dry Bulb 18 F
Summer Dry Bulb 93 F

Interior design conditions
Winter Dry Bulb 70 F
Summer Dry Bulb 75 F
Relative Humidity 50%

Building heating load: 66.36 MBH

Building cooling load: 22.36 TONS

Mechanical Spacing Conditioning System

Unitary
Description of Unit: 2- PKG. RTU GAS UNITS

Heating Efficiency: High Temp Sys. Power - 16.16/2.90; Low Temp - Sys.

Power - KW 12.0/2.0

Cooling Efficiency: 10 SEER
Heat Output of Units: 157 MBTUH
Cooling Output of Units: 22-TONS

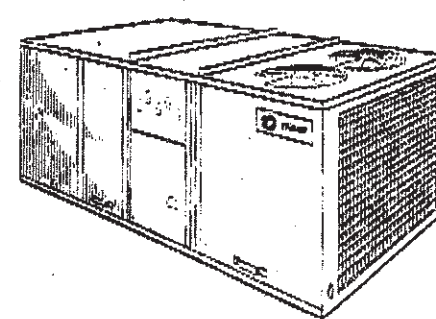
Boiler
Total Boiler Output. If oversized, state reason. N/A

Chiller
Total Chiller Capacity. If oversized, state reason. N/A

List Equipment Efficiencies: 9.5 EER



Trane Packaged Gas/Electric with Micro Controls 8 1/2 through 15 Tons



YCD - Downflow

- EER up to 11.5
- Climatuff compressors
- Scroll compressors on high efficiency 8 1/2, 10, 12 1/2, and 15 ton units
- Micro-processor control features are listed on page 86
- Built-in anti-short cycle timer and time delay relay
- Low Ambient to 0°F standard
- High efficiency drum and tube heat exchanger
- Color coded and numbered wiring
- Two inch filter on both YCD and YCD to clean air and keep coil maintenance low
- Simple U-shaped airflow pattern results in very low outside energy requirement
- "Quick-Access" doors and single side access make servicing much faster for lower maintenance costs
- Quick-adjust labor arm panning. Adjust belt tension, change belts, adjust airflow quickly
- High efficiency gas heat with hot surface ignition for low heating energy costs, low maintenance and high reliability
- IAO sloped condensate drain pans
- 5-year limited compressor warranty (8 1/2-15 tons)
- 3-year limited heat exchanger warranty (8 1/2-15 tons)
- 1 year limited parts warranty

Table 87-A - Downflow - Micro Control Unit

Unit Type	Unit Model No.	Power Supply Volts/Phase/Hz	Performance EER (20)	Capacity (Btu/h)	Heating Output Capacity (Btu/h)	Dimensions (in.) H x W x L	Shipping Weight (lbs.)	MCA 230/460	Max Fuel Size (in.) MAX Orifice Diameter 230/460	Downflow Roof/curb
8 1/2	YCD102C2H	9.0	107.000	109,000	45 1/2 x 50 x 88 1/2	1171	48/29	60/35	BAYCLR8022H	
8 1/2	YCD102C2L	9.0	107.000	109,000	45 1/2 x 50 x 88 1/2	1171	48/29	60/35	BAYCLR8022L	
8 1/2	YCD102C2H	9.0	107.000	166,000	45 1/2 x 50 x 88 1/2	1171	48/29	60/35	BAYCLR8022H	
8 1/2	YCD102C2L	9.0	107.000	166,000	45 1/2 x 50 x 88 1/2	1171	48/29	60/35	BAYCLR8022L	
8 1/2	YCD102C3H	11.0	108.000	122,000	49 x 53 1/2 x 94 1/2	1532	45/24	50/30	BAYCLR8022H	
8 1/2	YCD102C3L	11.0	108.000	122,000	49 x 53 1/2 x 94 1/2	1532	45/24	50/30	BAYCLR8022L	
8 1/2	YCD102C4H	11.0	109.000	263,000	49 x 53 1/2 x 94 1/2	1532	45/24	50/30	BAYCLR8022H	
8 1/2	YCD102C4L	11.0	109.000	263,000	49 x 53 1/2 x 94 1/2	1532	45/24	50/30	BAYCLR8022L	
9 1/2	YCD120C2H	9.2	125.000	203,000	49 x 53 1/2 x 94 1/2	1485	56/28	70/35	BAYCLR8022H	
9 1/2	YCD120C2L	9.2	125.000	203,000	49 x 53 1/2 x 94 1/2	1485	56/28	70/35	BAYCLR8022L	
9 1/2	YCD120C3H	9.0	125.000	105,000	45 1/2 x 50 x 88 1/2	1198	55/31	60/40	BAYCLR8022H	
9 1/2	YCD120C3L	9.0	125.000	105,000	45 1/2 x 50 x 88 1/2	1198	55/31	60/40	BAYCLR8022L	
10	YCD120C4H	9.0	125.000	166,000	45 1/2 x 50 x 88 1/2	1198	55/31	60/40	BAYCLR8022H	
10	YCD120C4L	9.0	125.000	166,000	45 1/2 x 50 x 88 1/2	1198	55/31	60/40	BAYCLR8022L	

William J. Martin
August 2, 2000

Equipment Schedule

- UNIT 1 YCD120C3LAA with Factory installed Economizer (TRANE)
- UNIT 2 YCD120C3MAA with Factory installed Economizer (TRANE)

- 2 Unit Curbs 1 left 1 right
- 2 Power Exhausters [BAYTWRX016C]
- 2 T. STATS [BAYSENS 008 B]
- 2 EMERGENCY SHUT OFF SWITCHES [LOCATED ABOVE T. STATS]
- 2 SMOKE DETECTORS [INSTALLED IN RETURNS]
- 2- 150 CFM BATH FANS

- SUPPLY DIFFUSERS
- #1- HART AND COOLEY HVS [WHITE]
- #2- HART AND COOLEY [RENPS]
- #3- HART AND COOLEY [16" CEILING DIFFUSERS ROUND]

- RETURN GRILLS
- #R1- HART AND COOLEY [RFRP]
- #R2- HART AND COOLEY [16" CEILING DIFFUSERS ROUND]

- UNIT # 1
- All rectangular ducts to be 24ga. Interior lined [1"]
- No flex run to be more than 10'
- All supply starting collars to have manual dampers
- 26ga. LBS properly insulated to be attached to diffusers. [supply & return]

- UNIT # 2
- All rectangular ducts to be 24ga. Interior lined [1"]
- All supply starting collars to have manual dampers
- 26 ga. metal LBS to be attached to each Diffusers
- Economizer to be locked in open position [air changes in service area 8 times an hr]
- All round ducts to be metal uninsulated

All curbs to be furnished by HVAC contractor and installed by G.C.
All condensation lines to be run to roof gutters

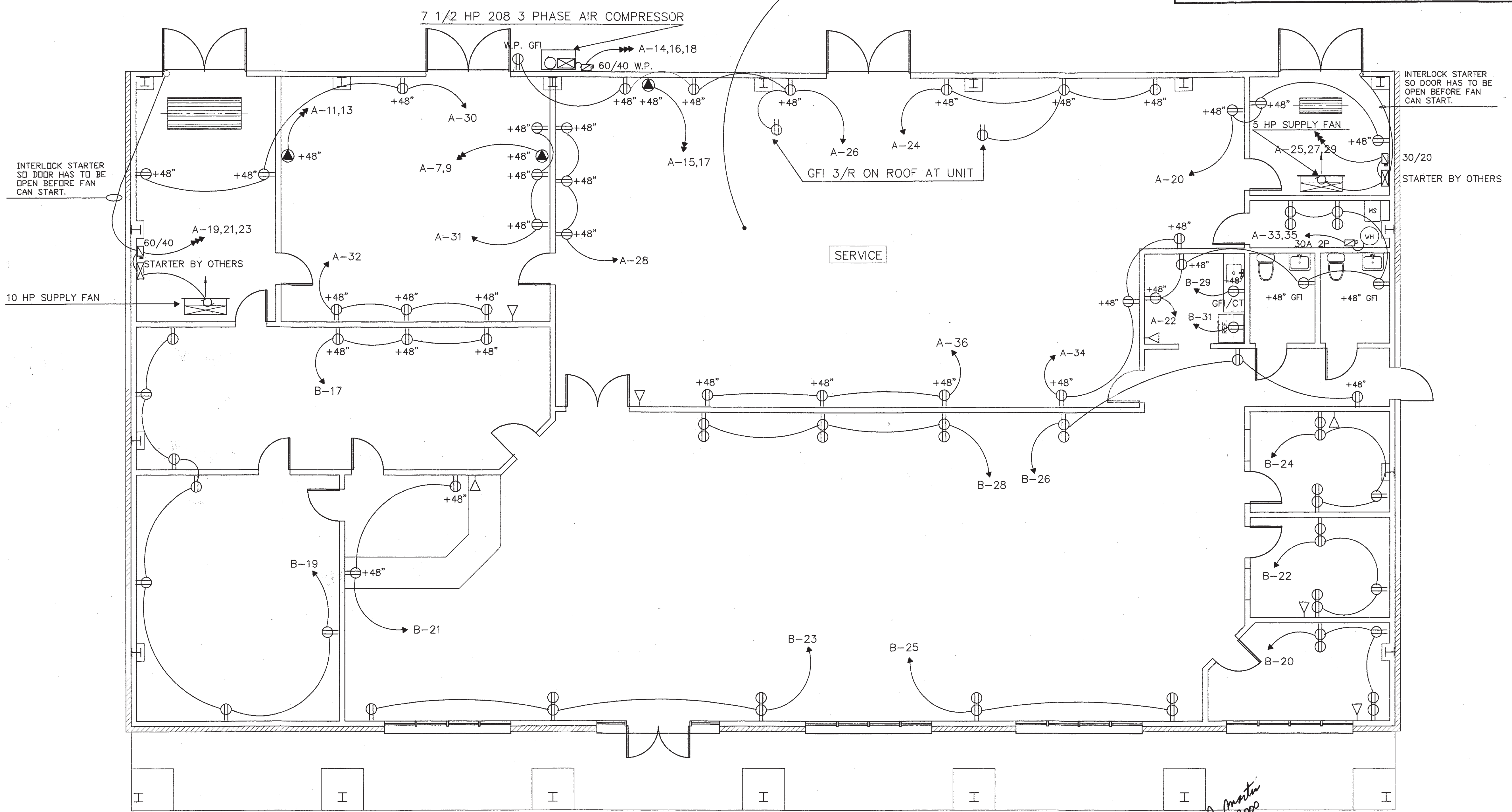
MECHANICAL NOTES

- COORDINATE CLOSELY ALL DUCTWORK WITH STRUCTURE AND BRACING AND OTHER WORK UNDER OTHER DIVISIONS.
- DUCTWORK SHALL BE GALVANIZED SHEET METAL FABRICATED IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS AND SHALL BE LINED WITH 1" - 1-1/2 LBS. DENSITY DUCTLINER. ANY AND ALL NINETY DEGREE ELBOWS SHALL HAVE TURNING VANES. ROUND DUCT SHALL HAVE 2" THICK, 3/4 LBS. DENSITY EXTERNAL INSULATION.
- ALL DUCTWORK SIZES SHOWN ARE NET SIZES. ADD 2" TO ALLOW FOR DUCT LINER.
- WHENEVER CONSTRUCTION REQUIRES A CHANGE IN DUCT FROM THE DRAWINGS, MAINTAIN THE EQUIVALENT AREAS. ALL SIZES SHOWN ARE OUTSIDE DIMENSIONS.
- SEAL ALL JOINTS IN DUCTWORK WITH MASTIC TO PROVIDE AN AIRTIGHT SYSTEM.
- PROVIDE FLEXIBLE DUCT CONNECTIONS TO FANS AND A/C UNITS AS MANUFACTURED BY VENTRONICS, DURODYNE, OR EQUAL.
- ALL FLEXIBLE DUCT, IN RUNOUTS, SHALL BE CLEVFLEX OR EQUAL WITH EXTERIOR DUCT WRAP.
- ALL NEW SUPPLY DUCT RUN OUTS SHALL HAVE SPIN-IN COLLARS WITH MANUAL DAMPERS.
- ALL EQUIPMENT SHALL BE NEW AND AS SPECIFIED, OR APPROVED EQUAL. ALL ELECTRICAL EQUIPMENT SHALL BE UL APPROVED.
- COORDINATE ALL ELECTRICAL EQUIPMENT WITH ELEC. CONTRACTOR.
- PROVIDE OWNER WITH ONE (1) COMPLETE SET OF MAINTENANCE AND OPERATION INSTRUCTIONS BOUND BY HARD BACK COVER.
- MECHANICAL CONTRACTOR SHALL TEST ALL COMPONENTS AND BALANCE THE SYSTEM TO CONFORM TO THE AIR VOLUMES SHOWN ON THE DRAWINGS.
- INSTALL EMER. SHUT DOWN SWITCH(ES) FOR ALL HVAC IN ACCESSIBLE AREAS.
- EQUIPMENT PADS FOR AIR CONDITIONING CONDENSERS BY THIS CONTRACTOR.
- REMOVE EXISTING AIR CONDITIONING SYSTEM, FURNACE IN ATTIC, AND ALL ASSOCIATED DUCT, INCLUDING FLEXIBLE DUCT. REPLACE AS PER PLANS.

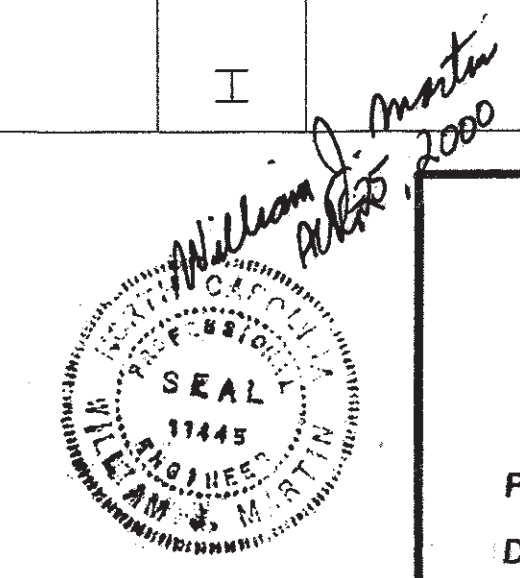
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SERVICE AREA TO COMPLY WITH ARTICLE 511 OF THE N.E.C. SEE NOTES THIS SHEET . SEE MECHANICAL DRAWINGS FOR NUMBER OF AIR CHANGES PER HOUR.

NOTE: ANY CONDUIT WHICH ENTERS THIS AREA UP TO A LEVEL OF 18 INCHES ABOVE THE FLOOR, WHETHER FROM THE FLOOR SLAB OR FROM THE AREA ABOVE 18 INCHES SHALL HAVE SEALS CONFORMING TO THE REQUIREMENTS OF SECTION 501-5. THE MECHANICAL VENTILATION PROVIDES A MINIMUM OF FOUR AIR CHANGES PER HOUR. AT THE CONTRACTORS OPTION, HE MAY REQUEST A RE-CLASSIFICATION OF THE SHOP AREA FROM THE ENFORCING AGENCY. SEE SECTION 511-3 OF THE NEC.



POWER PLAN
SCALE: 3/16" = 1'-0"

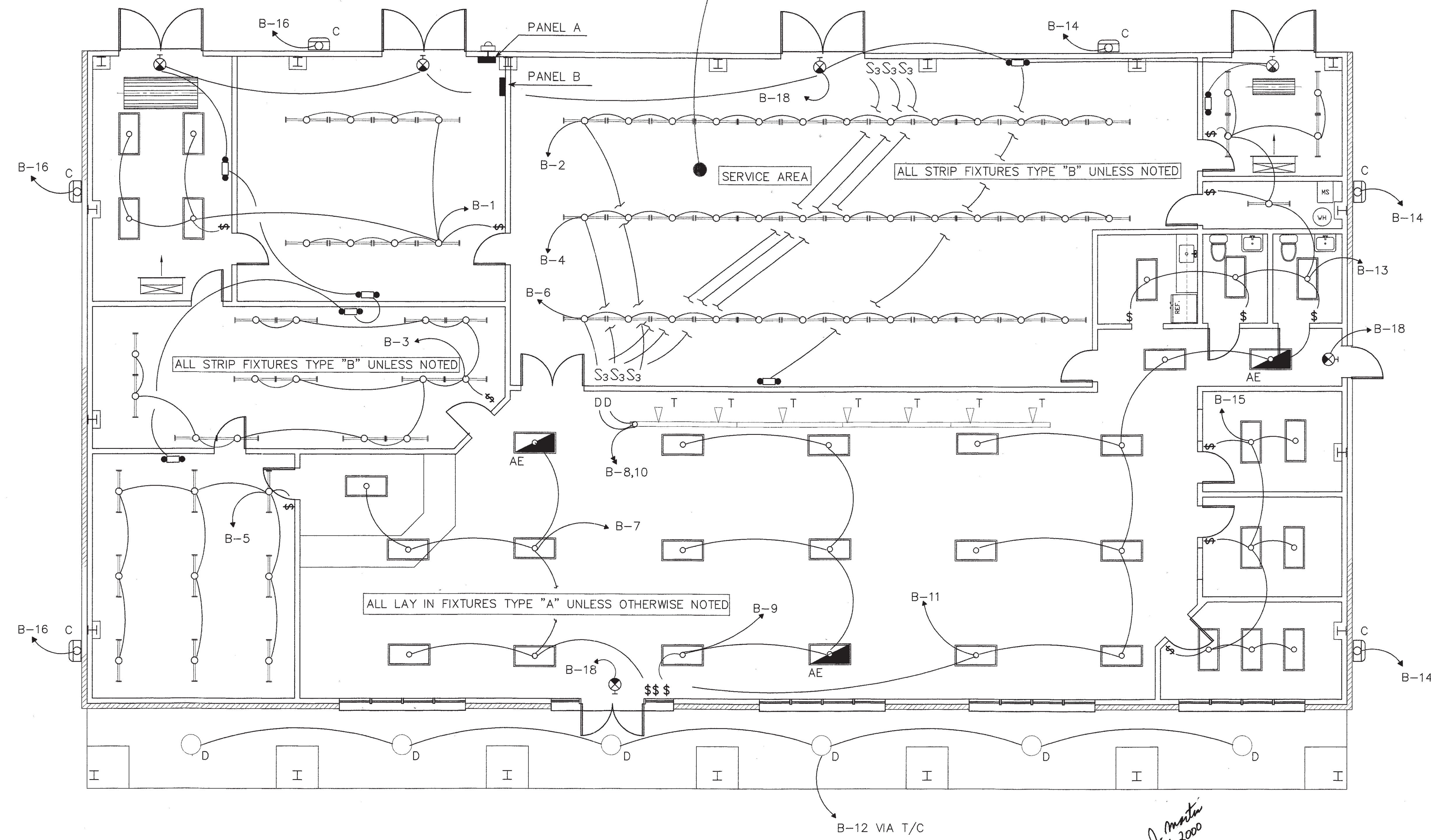


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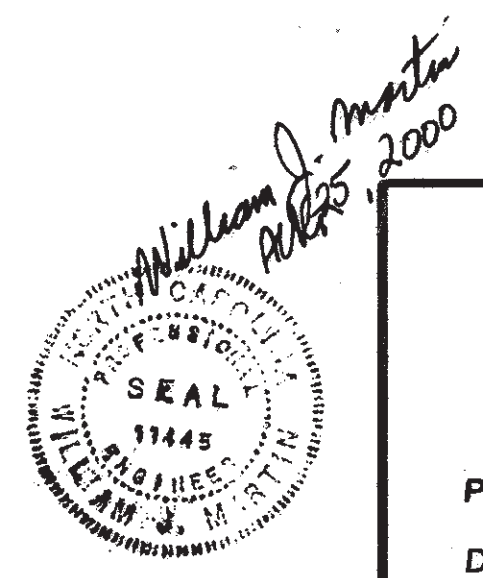
SERVICE AREA TO COMPLY WITH ARTICLE 511 OF THE N.E.C. SEE NOTES THIS SHEET AND NOTES ON FLOOR PLAN. SEE MECHANICAL DRAWINGS FOR NUMBER OF AIR CHANGES PER HOUR.

NOTE: ALL LIGHTING FIXTURES IN THE SERVICE AREA TO BE MOUNTED AS HIGH TO THE DECK AS POSSIBLE. IN NO CASE SHALL THEY BE BELOW 12' A.F.F. SEE NOTES ON FLOOR PLAN FOR REQUIREMENTS ON CONDUIT IN THIS AREA.



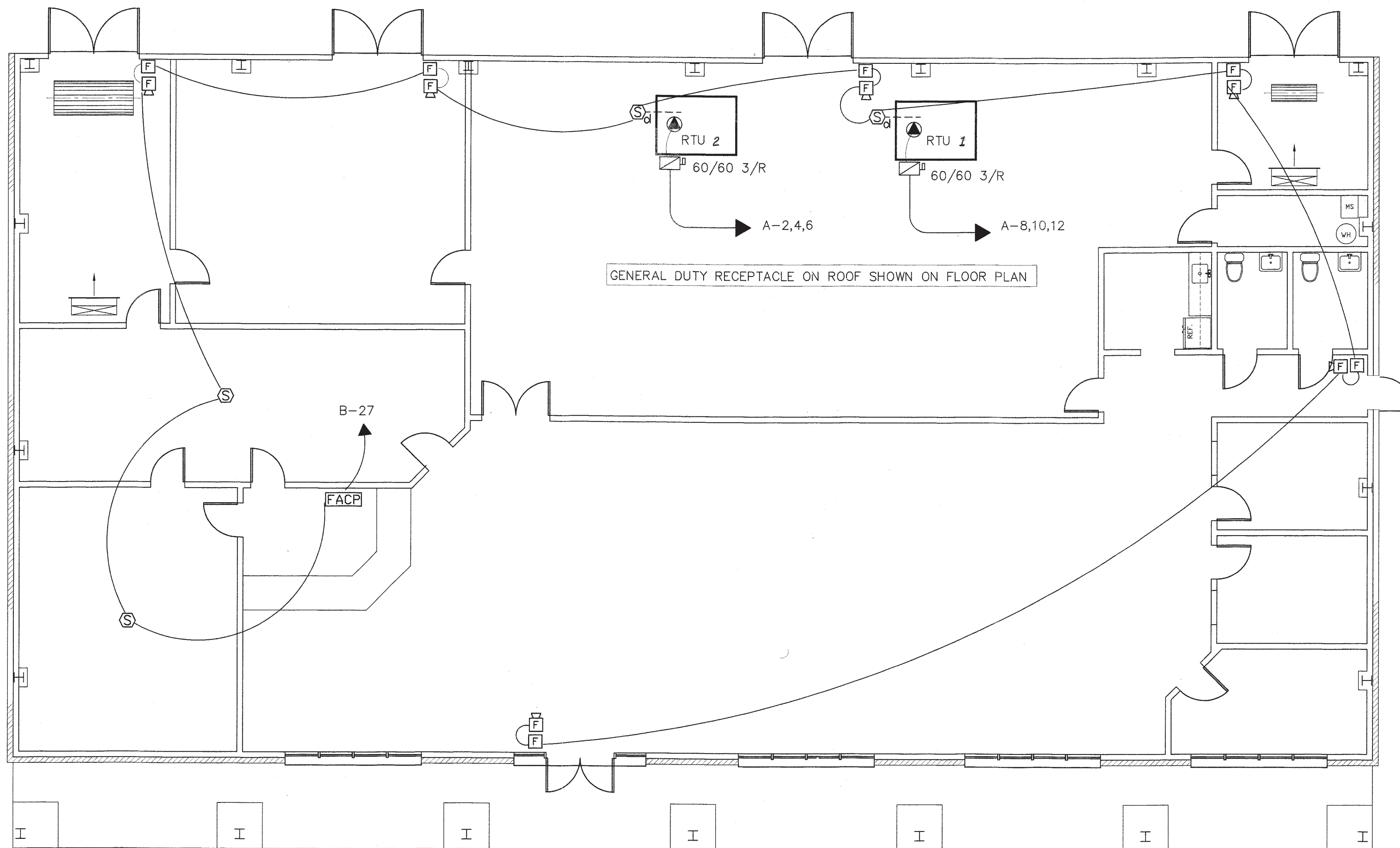
LIGHTING PLAN

SCALE: 3/16" = 1' 0"



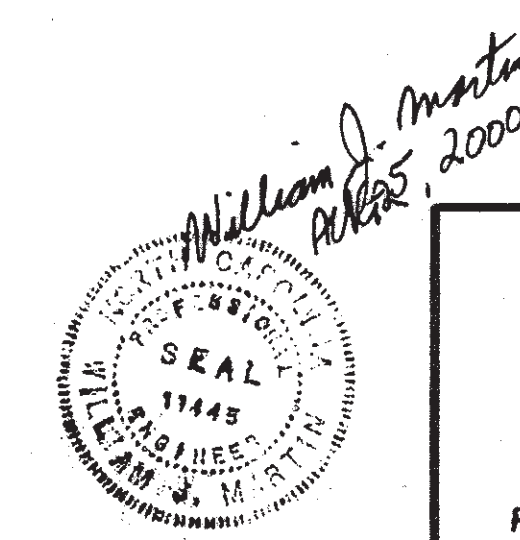
SCOTT DESIGN CENTER
 PO BOX 470095
 CHARLOTTE, NC 28247
 PHONE: 704-542-7689
 DATE: 8-25-00

LEE'S PERFORMANCE CENTER, INC.
 OLD STATESVILLE RD
 CHARLOTTE, NC 28269



FIRE ALARM AND EQUIPMENT

SCALE: 3/16" = 1'0"



<p>SCOTT DESIGN CENTER PO BOX 470095 CHARLOTTE, NC 28247 PHONE: 704-542-7689 DATE: 8-25-00</p>	<p>LEE'S PERFORMANCE CENTER, INC. OLD STATESVILLE RD CHARLOTTE, NC 28269</p>	<p>13 OF 14</p>
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SYMBOL SCHEDULE	
SYMBOL	DESCRIPTION
[Symbol]	FIRE ALARM SYSTEM CONTROL PANEL
[Symbol]	FIRE ALARM SYSTEM REMOTE ANNUNCIATOR
[Symbol]	FIRE ALARM SYSTEM MANUAL ALARM "PULL" STATION
[Symbol]	FIRE ALARM SYSTEM CEILING MOUNTED SMOKE DETECTOR
[Symbol]	FIRE ALARM SYSTEM CEILING MOUNTED THERMAL DETECTOR
[Symbol]	FIRE ALARM SYSTEM DUCT MOUNTED SMOKE DETECTOR
[Symbol]	FIRE ALARM SYSTEM ADDRESSABLE REMOTE MONITOR MODULE
[Symbol]	FIRE ALARM SYSTEM ADDRESSABLE REMOTE CONTROL MODULE (WITH RELAY CONTACTS)
[Symbol]	FIRE ALARM SYSTEM MONITOR MODULE FOR SPRINKLER WATER FLOW SWITCH
[Symbol]	FIRE ALARM SYSTEM MONITOR MODULE FOR SPRINKLER VALVE TAMPER SWITCH
[Symbol]	FIRE ALARM SYSTEM SIGNAL DEVICE - XENON FLASHER LIGHT ONLY
[Symbol]	FIRE ALARM SYSTEM SIGNAL DEVICE - COMBINATION HORN AND XENON FLASHER LIGHT
[Symbol]	JOINCTION BOX
[Symbol]	FIRE ALARM SYSTEM "TRUNK-LINE" CONDUIT HOME-RUN TO CONTROL PANEL
[Symbol]	FIRE ALARM SYSTEM DATA LINE ISOLATION MODULE

FIRE ALARM SYSTEM SPECIFICATIONS

THE FIRE ALARM SYSTEM SHALL BE OF THE MICROPROCESSOR-BASED MULTIPLEPLEX TYPE UTILIZING ADDRESSABLE DEVICES. SYSTEM COMPONENTS AND OPERATION SHALL BE IN COMPLIANCE WITH THE NORTH CAROLINA DEPARTMENT OF INSURANCE DOCUMENT "REQUIREMENTS FOR FIRE DETECTION AND ALARM SYSTEMS". SIGNAL DEVICES SHALL COMPLY WITH THE REQUIREMENTS OF THE "AMERICANS WITH DISABILITIES ACT" (ADA).

IN GENERAL, SYSTEM FUNCTION SHALL BE AS EVIDENTLY INTENDED BY THE SELECTION OF EQUIPMENT SPECIFIED HEREIN. ACTIVATION OF ANY ALARM-INITIATING DEVICE SHALL CAUSE AUDIBLE AND VISIBLE ALARM SIGNALS TO BE ACTIVATED THROUGHOUT THE FACILITY. THE ALARM CONDITION SHALL BE INDICATED AT THE FIRE ALARM CONTROL PANEL BY AN LCD DISPLAY, WHICH SHALL DESCRIBE THE TYPE OF INITIATING DEVICE(S) ACTIVATED, AS WELL AS THE EXACT LOCATION OF EACH DEVICE. ALARM CONDITION SHALL ALSO CAUSE THE SHUT-DOWN OF AIR HANDLER SYSTEMS. OTHER SPECIAL CONTROL FUNCTIONS SHALL BE AS NOTED ON THE DRAWINGS.

CONTROL PANEL SHALL BE NOTIFIER AFD-200 SERIES OR EQUAL. PANEL SHALL INCLUDE ALL MODULES AND COMPONENTS REQUIRED FOR SPECIFIED FUNCTION, INCLUDING (BUT NOT LIMITED TO) THE FOLLOWING:
SYSTEM POWER AND SUPERVISORY CONTROL
ADDRESSABLE INTERFACE MODULES
SIGNAL CIRCUIT OUTPUTS
BATTERY CONTROL, CHARGER, AND MONITOR. BATTERY CELLS TO BE SEALED-CELL TYPE, WITH CAPACITY TO OPERATE THE SYSTEM 24 HOURS IN STAND-BY PLUS 5 MINUTES IN ALARM.

THE CONTROL PANEL SHALL COMMUNICATE WITH EACH DEVICE INDIVIDUALLY VIA A SHIELDED TWISTED-PAIR DATA CABLE. SYSTEM CAPACITY SHALL BE NOT LESS THAN 198 DEVICES - 99 ANALOG DETECTION DEVICES AND 99 ADDRESSABLE MONITOR/CONTROL MODULES. CONTROL PANEL SHALL MONITOR THE STATUS OF EACH DEVICE AND CIRCUIT AND REPORT CONDITIONS INCLUDING:

- ALARM
- TROUBLE
- OPEN
- SHORT
- DEVICE MISSING/FAILED

SYSTEM COMMUNICATION SHALL UTILIZE A DIGITAL POLL-RESPONSE PROTOCOL, WHICH SHALL SUPPORT T-TAPPING OF THE DATA LINE.

MANUAL ALARM "PULL" STATION SHALL BE SINGLE ACTION TYPE. NOTIFIER MODEL 960672.

CEILING MOUNTED SMOKE DETECTORS SHALL BE PHOTOELECTRIC TYPE, LOW-PROFILE DESIGN. DETECTOR SHALL BE PLUG-IN TYPE WHICH MOUNTS TO A TWIST-LOCK BASE. NOTIFIER MODEL SDX-751. THERMAL DETECTORS SHALL BE COMBINATION RATE-OF-RISE AND FIXED TEMPERATURE (135 DEG F) TYPE. THERMAL DETECTORS AND SMOKE DETECTORS SHALL BE INTERCHANGEABLE ON THE SAME BASES.

DUCT-MOUNTED SMOKE DETECTOR SHALL BE PHOTOELECTRIC TYPE, OPERATING ON THE LIGHT-SCATTERING PHOTOELECTRIC PRINCIPLE. DETECTOR HOUSING SHALL BE SECURELY MOUNTED ON THE EXTERIOR OF THE DUCT AND SAMPLING TUBE SHALL EXTEND THE FULL WIDTH OF THE DUCT. DETECTOR SHALL BE PLACED SO AS TO ALLOW VISUAL INSPECTION OF SAMPLING TUBES THROUGH EXISTING RETURN AIR OPENINGS, OR PROPER ACCESS DOOR SHALL BE INSTALLED BY A QUALIFIED SUBCONTRACTOR. FOR EACH DUCT-MOUNTED SMOKE DETECTOR, PROVIDE A REMOTE ALARM INDICATOR LIGHT AND KEY-OPEATED TEST SWITCH.

ADDRESSABLE REMOTE MONITOR MODULES (RMM'S) SHALL BE PROVIDED TO MONITOR THE STATUS OF NON-ADDRESSABLE ALARM POINTS, SUCH AS A SPRINKLER SYSTEM WATER FLOW SWITCH.

ADDRESSABLE REMOTE CONTROL MODULES (RCM'S) SHALL BE PROVIDED FOR AIR HANDLER SHUT-DOWN AND OTHER SPECIAL CONTROL FUNCTIONS. RELAY CONTACT IN EACH RCM SHALL BE SPDT, RATED MINIMUM .3 AMP @ 110VAC.

SIGNAL DEVICES SHALL CONSIST OF XENON-FLASHER STROBE LIGHT SIGNALS, WITH CLEAR LENS, ALONE OR IN COMBINATION WITH AN ELECTRONIC HORN. SIGNAL DEVICES SHALL BE MOUNTED 80" AFF TO CENTER.

REMOTE ANNUNCIATOR SHALL INCLUDE AN 80-CHARACTER LCD DISPLAY. FLUSH WALL MOUNT. NOTIFIER MODEL LCD-80MM.

PROVIDE DIGITAL ALARM COMMUNICATOR. PROGRAM AND CONNECT FOR CENTRAL STATION MONITORING.

MANUFACTURER'S RESPONSIBILITIES, WARRANTY, ETC.

FINAL SYSTEM CONNECTIONS SHALL BE MADE BY OR UNDER THE DIRECT SUPERVISION OF AN AUTHORIZED REPRESENTATIVE OF THE SYSTEM MANUFACTURER, WHO SHALL PROVIDE TO THE ARCHITECT A LETTER CERTIFYING THAT HE HAS CHECKED EVERY SYSTEM CIRCUIT, DEVICE, AND FUNCTION AND THAT THEY ARE OPERATING PROPERLY.

MANUFACTURER SHALL PROVIDE INSTRUCTION TO THE DESIGNATED REPRESENTATIVES OF THE OWNER FOR MAINTENANCE AND OPERATION OF THE SYSTEM.

LIGHTING FIXTURE SCHEDULE			
TYPE	DESCRIPTION	LAMPS	
A	2' x 4' RECESSED FLUORESCENT TRIGGER, FLUSH STEEL DOOR. ACRYLIC PRISMATIC DIFFUSER. LAY-IN STYLE FOR GRID CEILING. 120V.	4-F40 CW ES	
AE	SAME AS A EXCEPT WITH UN-SWITCHED BATTERY BACK UP	4-F40 CW ES	
B	4' x 4' LONG BARE FLUORESCENT STRIP FIXTURE, 120V.	2-F40 CW ES	
C	HID WALL PACK FIXTURE, LABEL FOR VET LOCATION. BRONZE FINISH. PRISMATIC POLYCARBONATE DIFFUSER, 120 V.	1-250 MH	
D	RECESSED ROUND INCANDESCENT DOWNLIGHT, OPEN CONE REFLECTOR.	1-100-A19	
T	JUND WIREFORMS T435 ON TWO CIRCUIT TRACK	1-75W PAR30 HALOGEN	
E	EMERGENCY LIGHTING UNIT WITH BATTERY RESERVE, WALL MOUNTED, MOLDED WHITE THERMOPLASTIC HOUSING.	2-7.2W TUNGSTEN	
F	EXIT SIGN, CEILING OR WALL MOUNTED AS SHOWN, BATTERY RESERVE POWER. RED LETTERS. WHITE HOUSING. FLUORESCENT OR LED TYPE.	-	

ENERGY CODE COMPLIANCE ELECTRICAL SYSTEM AND EQUIPMENT

METHOD OF COMPLIANCE:
 PRESCRIPTIVE PERFORMANCE ENERGY COST BUDGET

LIGHTING SCHEDULE
 LAMP TYPE REQUIRED IN FIXTURE: SEE FIXTURE SCHEDULE
 NUMBER OF LAMPS IN FIXTURE: _____
 BALLAST TYPE USED IN FIXTURE: _____
 NUMBER OF BALLASTS IN THE FIXTURE: _____
 TOTAL WATTAGE PER FIXTURE: _____
 TOTAL INTERIOR WATTAGE SPECIFIED VS ALLOWED: 15,100 VS 17,000
 TOTAL EXTERIOR WATTAGE SPECIFIED VS ALLOWED: 3,300 VS 5,000

EQUIPMENT SCHEDULES WITH MOTORS (NOT USED FOR MECHANICAL SYSTEMS)
 MOTOR HORSEPOWER: N/A
 NUMBER OF PHASES: N/A
 MINIMUM EFFICIENCY: N/A
 MOTOR TYPE: N/A
 NUMBER OF POLES: N/A

DESIGNER STATEMENT:
 TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE ELECTRICAL SYSTEM AND EQUIPMENT REQUIREMENTS OF THE NORTH CAROLINA STATE BUILDING CODE, VOLUME X - ENERGY.

SIGNED: _____
 NAME: _____
 TITLE: _____

LOAD				LOAD			
NO.	TYPE	WIRE SIZE	LOAD	NO.	TYPE	WIRE SIZE	LOAD
1.1	8" X 8" PANEL, "H"	1/2" ALU-3	1.7	1	8" HYD. UNIT @ ON ROOF	2	5.7
2.1	8" X 8" WELDER	8 50" 7	7.8	2	8" HYD. UNIT @ ON ROOF	2	5.7
3.1	2.4 WELDER	8 50" 11	11.2	3	8" HYD. UNIT @ ON ROOF	2	5.7
4.1	2.4 WELDER	8 50" 11	11.2	4	8" HYD. UNIT @ ON ROOF	2	5.7
5.1	1.7 PARTS WASHER	1/2" ALU-3	1.7	5	8" 7 1/2 HP. AIR COMPRESSOR	2	2.8
6.1	1.7	-	-	6	20" 12" SHIP RECEPTACLES <C> @	2	2.8
7.1	1.7	-	-	7	20" 12" SHIP RECEPTACLES <C> @	2	2.8
8.1	2.4 SHIP SUPPLY FAN	8 40" 21	21.0	8	20" 12" SHIP RECEPTACLES <C> @	2	2.8
9.1	3.7	-	-	9	20" 12" SHIP RECEPTACLES <C> @	2	2.8
10.1	2.0 SHIP SUPPLY FAN	-	-	10	20" 12" SHIP RECEPTACLES <C> @	2	2.8
11.1	2.0	-	-	11	20" 12" SHIP RECEPTACLES <C> @	2	2.8
12.1	2.4 SHIP RECEPTACLES <C> @	-	-	12	20" 12" SHIP RECEPTACLES <C> @	2	2.8
13.1	2.4	-	-	13	20" 12" SHIP RECEPTACLES <C> @	2	2.8
14.1	2.4	-	-	14	20" 12" SHIP RECEPTACLES <C> @	2	2.8
15.1	2.4	-	-	15	20" 12" SHIP RECEPTACLES <C> @	2	2.8
16.1	2.4	-	-	16	20" 12" SHIP RECEPTACLES <C> @	2	2.8
17.1	2.4	-	-	17	20" 12" SHIP RECEPTACLES <C> @	2	2.8
18.1	2.4	-	-	18	20" 12" SHIP RECEPTACLES <C> @	2	2.8
19.1	2.4	-	-	19	20" 12" SHIP RECEPTACLES <C> @	2	2.8
20.1	2.4	-	-	20	20" 12" SHIP RECEPTACLES <C> @	2	2.8
21.1	2.4	-	-	21	20" 12" SHIP RECEPTACLES <C> @	2	2.8
22.1	2.4	-	-	22	20" 12" SHIP RECEPTACLES <C> @	2	2.8
23.1	2.4	-	-	23	20" 12" SHIP RECEPTACLES <C> @	2	2.8
24.1	2.4	-	-	24	20" 12" SHIP RECEPTACLES <C> @	2	2.8
25.1	2.4	-	-	25	20" 12" SHIP RECEPTACLES <C> @	2	2.8
26.1	2.4	-	-	26	20" 12" SHIP RECEPTACLES <C> @	2	2.8
27.1	2.4	-	-	27	20" 12" SHIP RECEPTACLES <C> @	2	2.8
28.1	2.4	-	-	28	20" 12" SHIP RECEPTACLES <C> @	2	2.8
29.1	2.4	-	-	29	20" 12" SHIP RECEPTACLES <C> @	2	2.8
30.1	2.4	-	-	30	20" 12" SHIP RECEPTACLES <C> @	2	2.8
31.1	2.4	-	-	31	20" 12" SHIP RECEPTACLES <C> @	2	2.8
32.1	2.4	-	-	32	20" 12" SHIP RECEPTACLES <C> @	2	2.8
33.1	2.4	-	-	33	20" 12" SHIP RECEPTACLES <C> @	2	2.8
34.1	2.4	-	-	34	20" 12" SHIP RECEPTACLES <C> @	2	2.8
35.1	2.4	-	-	35	20" 12" SHIP RECEPTACLES <C> @	2	2.8
36.1	2.4	-	-	36	20" 12" SHIP RECEPTACLES <C> @	2	2.8
37.1	2.4	-	-	37	20" 12" SHIP RECEPTACLES <C> @	2	2.8
38.1	2.4	-	-	38	20" 12" SHIP RECEPTACLES <C> @	2	2.8
39.1	2.4	-	-	39	20" 12" SHIP RECEPTACLES <C> @	2	2.8
40.1	2.4	-	-	40	20" 12" SHIP RECEPTACLES <C> @	2	2.8
41.1	2.4	-	-	41	20" 12" SHIP RECEPTACLES <C> @	2	2.8
42.1	2.4	-	-	42	20" 12" SHIP RECEPTACLES <C> @	2	2.8
43.1	2.4	-	-	43	20" 12" SHIP RECEPTACLES <C> @	2	2.8
44.1	2.4	-	-	44	20" 12" SHIP RECEPTACLES <C> @	2	2.8
45.1	2.4	-	-	45	20" 12" SHIP RECEPTACLES <C> @	2	2.8
46.1	2.4	-	-	46	20" 12" SHIP RECEPTACLES <C> @	2	2.8
47.1	2.4	-	-	47	20" 12" SHIP RECEPTACLES <C> @	2	2.8
48.1	2.4	-	-	48	20" 12" SHIP RECEPTACLES <C> @	2	2.8
49.1	2.4	-	-	49	20" 12" SHIP RECEPTACLES <C> @	2	2.8
50.1	2.4	-	-	50	20" 12" SHIP RECEPTACLES <C> @	2	2.8
51.1	2.4	-	-	51	20" 12" SHIP RECEPTACLES <C> @	2	2.8
52.1	2.4	-	-	52	20" 12" SHIP RECEPTACLES <C> @	2	2.8
53.1	2.4	-	-	53	20" 12" SHIP RECEPTACLES <C> @	2	2.8
54.1	2.4	-	-	54	20" 12" SHIP RECEPTACLES <C> @	2	2.8
55.1	2.4	-	-	55	20" 12" SHIP RECEPTACLES <C> @	2	2.8
56.1	2.4	-	-	56	20" 12" SHIP RECEPTACLES <C> @	2	2.8
57.1	2.4	-	-	57	20" 12" SHIP RECEPTACLES <C> @	2	2.8
58.1	2.4	-	-	58	20" 12" SHIP RECEPTACLES <C> @	2	2.8
59.1	2.4	-	-	59	20" 12" SHIP RECEPTACLES <C> @	2	2.8
60.1	2.4	-	-	60	20" 12" SHIP RECEPTACLES <C> @	2	2.8
61.1	2.4	-	-	61	20" 12" SHIP RECEPTACLES <C> @	2	2.8
62.1	2.4	-	-	62	20" 12" SHIP RECEPTACLES <C> @	2	2.8
63.1	2.4	-	-	63	20" 12" SHIP RECEPTACLES <C> @	2	2.8
64.1	2.4	-	-	64	20" 12" SHIP RECEPTACLES <C> @	2	2.8
65.1	2.4	-	-	65	20" 12" SHIP RECEPTACLES <C> @	2	2.8
66.1	2.4	-	-	66	20" 12" SHIP RECEPTACLES <C> @	2	2.8
67.1	2.4	-	-	67	20" 12" SHIP RECEPTACLES <C> @	2	2.8
68.1	2.4	-	-	68	20" 12" SHIP RECEPTACLES <C> @	2	2.8
69.1	2.4	-	-	69	20" 12" SHIP RECEPTACLES <C> @	2	2.8
70.1	2.4	-	-	70	20" 12" SHIP RECEPTACLES <C> @	2	2.8
71.1	2.4	-	-	71	20" 12" SHIP RECEPTACLES <C> @	2	2.8
72.1	2.4	-	-	72	20" 12" SHIP RECEPTACLES <C> @	2	2.8
73.1	2.4	-	-	73	20" 12" SHIP RECEPTACLES <C> @	2	2.8
74.1	2.4	-	-	74	20" 12" SHIP RECEPTACLES <C> @	2	2.8
75.1	2.4	-	-	75	20" 12" SHIP RECEPTACLES <C> @	2	2.8
76.1	2.4	-	-	76	20" 12" SHIP RECEPTACLES <C> @	2	2.8
77.1	2.4	-	-	77	20" 12" SHIP RECEPTACLES <C> @	2	2.8
78.1	2.4	-	-	78	20" 12" SHIP RECEPTACLES <C> @	2	2.8
79.1	2.4	-	-	79	20" 12" SHIP RECEPTACLES <C> @	2	2.8
80.1	2.4	-	-	80	20" 12" SHIP RECEPTACLES <C> @	2	2.8
81.1	2.4	-	-	81	20" 12" SHIP RECEPTACLES <C> @	2	2.8
82.1	2.4	-	-	82	20" 12" SHIP RECEPTACLES <C> @	2	2.8
83.1	2.4	-	-	83	20" 12" SHIP RECEPTACLES <C> @	2	2.8
84.1	2.4	-	-	84	20" 12" SHIP RECEPTACLES <C> @	2	2.8
85.1	2.4	-	-	85	20" 12" SHIP RECEPTACLES <C> @	2	2.8
86.1	2.4	-	-	86	20" 12" SHIP RECEPTACLES <C> @	2	2.8
87.1	2.4	-	-	87	20" 12" SHIP RECEPTACLES <C> @	2	2.8
88.1	2.4	-	-	88	20" 12" SHIP RECEPTACLES <C> @	2	2.8
89.1	2.4	-	-	89	20" 12" SHIP RECEPTACLES <C> @	2	2.8
90.1	2.4	-	-	90	20" 12" SHIP RECEPTACLES <C> @	2	2.8
91.1	2.4	-	-	91	20" 12" SHIP RECEPTACLES <C> @	2	2.8
92.1	2.4	-	-	92	20" 12" SHIP RECEPTACLES <C> @	2	2.8
93.1	2.4	-	-	93	20" 12" SHIP RECEPTACLES <C> @	2	2.8
94.1	2.4	-	-	94	20" 12" SHIP RECEPTACLES <C> @	2	2.8
95.1	2.4	-	-	95	20" 12" SHIP RECEPTACLES <C> @	2	2.8
96.1	2.4	-	-	96	20" 12" SHIP RECEPTACLES <C> @	2	2.8
97.1	2.4	-	-	97	20" 12" SHIP RECEPTACLES <C> @	2	2.8
98.1	2.4	-	-	98	20" 12" SHIP RECEPTACLES <C> @	2	2.8
99.1	2.4	-	-	99	20" 12" SHIP RECEPTACLES <C> @	2	2.8
100.1	2.4	-	-	100	20" 12" SHIP RECEPTACLES <C> @	2	2.8

LOAD				LOAD			
NO.	TYPE	WIRE SIZE	LOAD	NO.	TYPE	WIRE SIZE	LOAD
1.1	LIGHTS SHOP	1/2" ALU-3	1.7	1	LIGHTS SERVICE	2	5.7
2.1	LIGHTS STORAGE	1/2" ALU-3	1.7	2	LIGHTS SERVICE	2	5.7
3.1	LIGHTS STORAGE	1/2" ALU-3	1.7	3	LIGHTS SERVICE	2	5.7
4.1	LIGHTS SHOW ROOM	1/2" ALU-3	1.7	4	TRACK LIGHTS SHOW ROOM	2	5.7
5.1	LIGHTS SHOW ROOM	1/2" ALU-3	1.7	5	TRACK LIGHTS SHOW ROOM	2	5.7
6.1	LIGHTS SHOW ROOM	1/2" ALU-3	1.7	6	TRACK LIGHTS SHOW ROOM	2	5.7
7.1	LIGHTS SHOW ROOM	1/2" ALU-3	1.7	7	TRACK LIGHTS SHOW ROOM	2	5.7
8.1	LIGHTS SHOW ROOM	1/2" ALU-3	1.7	8	CANOPY LIGHTS VA. T/C	2	5.7
9.1	LIGHTS SHOW ROOM	1/2" ALU-3	1.7	9	WALL PACKS	2	5.7
10.1	LIGHTS OFFICE	1/2" ALU-3	1.7	10	WALL PACKS	2	5.7
11.1	OFFICE RE						