



Maine Medical Center

GIFT SHOP RENOVATIONS

Portland, Maine
MMC Project No. 210037

ISSUED FOR CONSTRUCTION

CODE COMPLIANCE INFORMATION

APPLICABLE CODES AND GUIDELINES

MAINE UNIFORM BUILDING AND ENERGY CODE, 2010 Edition
INTERNATIONAL BUILDING CODE (IBC), 2009 EDITION
NFPA 101 LIFE SAFETY CODE, 2006 EDITION
AMERICANS WITH DISABILITIES ACT (ADA)
AIA GUIDELINES FOR DESIGN AND CONSTRUCTION OF
HEALTHCARE FACILITIES, 2006 EDITION

EXISTING CONSTRUCTION TYPE

IBC - TYPE 1A
NFPA - TYPE 1 (3,3,2)

OCCUPANCY CLASSIFICATION

IBC - INSTITUTIONAL I-2
NFPA - CHAPTER 18 NEW HEALTHCARE

FIRE SUPPRESSION

FULLY SPRINKLERED PER NFPA 13

DRAWING INDEX

ARCHITECTURAL

GI000 COVER SHEET
AE101 REMOVALS, FLOOR PLAN, REFLECTED CEILING PLAN
AE201 INTERIOR ELEVATIONS
AE501 SOFFIT AND CASEWORK DETAILS
AE502 CASEWORK DETAILS
AE601 DOOR AND FINISH SCHEDULES

MECHANICAL

P-000 PLUMBING / MECHANICAL LEGEND AND ABBREVIATIONS
P-100 PLUMBING PLANS, SCHEDULES, DETAILS AND NOTES
M-100 MECHANICAL PLANS, SCHEDULES, DETAILS AND NOTES

ELECTRICAL

EL-100 LIGHTING PLAN, GENERAL NOTES AND ABBREVIATIONS
EP-100 ELECTRICAL SPECIFICATION, POWER AND SYSTEMS PLAN

PROJECT LOCATION:

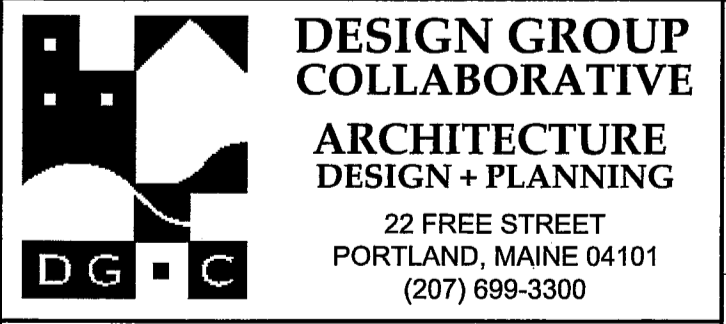
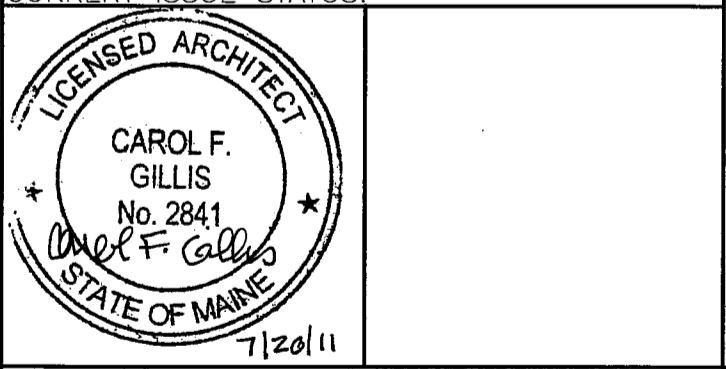
PAVILION C&D, GROUND FLOOR
MAINE MEDICAL CENTER (BRAMHALL CAMPUS)
22 BRAMHALL STREET
PORTLAND, ME 04102

DESIGN GROUP COLLABORATIVE ARCHITECTURE DESIGN + PLANNING

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REV.	DESCRIPTION	DATE
0	Issued for Construction	7/19/11

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MAINE MEDICAL CENTER
GIFT SHOP RENOVATIONS
PORTLAND, MAINE

COVER SHEET

DATE:	7/19/11	GRAPHIC SCALE:	
SCALE:	AS NOTED	SHEET No.	GI000
PROJECT NO.	2010-01		
DRAWN BY:	CFC		
A/E OF RECORD:	CFC		

REMOVALS NOTES:

1. ALL BUILDING STRUCTURAL ELEMENTS SHALL REMAIN.
2. PROTECT ALL EXISTING MATERIALS AND FINISHES. ANY MATERIALS OR FINISHES DISTURBED OR DAMAGED DURING DEMOLITION AND NEW WORK SHALL BE REPAIRED OR REPLACED AND FINISHED TO MATCH ADJACENT CONSTRUCTION CONTINUOUSLY TO NEAREST CORNER.
3. DURING DEMOLITION AND NEW WORK, WHERE EXISTING CONDITIONS ARE FOUND TO BE DEFECTIVE, NOTIFY OWNER AND ARCHITECT AND PROVIDE CHANGE PROPOSAL FOR CORRECTION OF THESE CONDITIONS.

REMOVALS KEY NOTES:

- 1 REMOVE EXISTING DOOR, FRAME AND HARDWARE.
- 2 REMOVE EXISTING BORROWED LITE ASSEMBLY.
- 3 REMOVE EXISTING WOOD WALL GUARDS.
- 4 REMOVE EXISTING CEILING TILE AND GRID.
- 5 REMOVE EXISTING FLOORING.
- 6 REMOVE EXISTING WALL.
- 7 REMOVE EXISTING PLUMBING FIXTURE(S)/ TOILET PARTITION.
- 8 REMOVE EXISTING MILLWORK/CASEWORK/SLATWALL.
- 9 REMOVE EXISTING SOFFIT.

PLAN NOTES:

- 1 MAPLE HANDRAIL: MATCH EXISTING SIZE AND PROFILE
- 2 2 1/2" X 5/4" MAPLE TRIM AT 7'-2" AFF.
- 3 WALL MOUNTED SIGNAGE
- 4 TOILET PARTITION

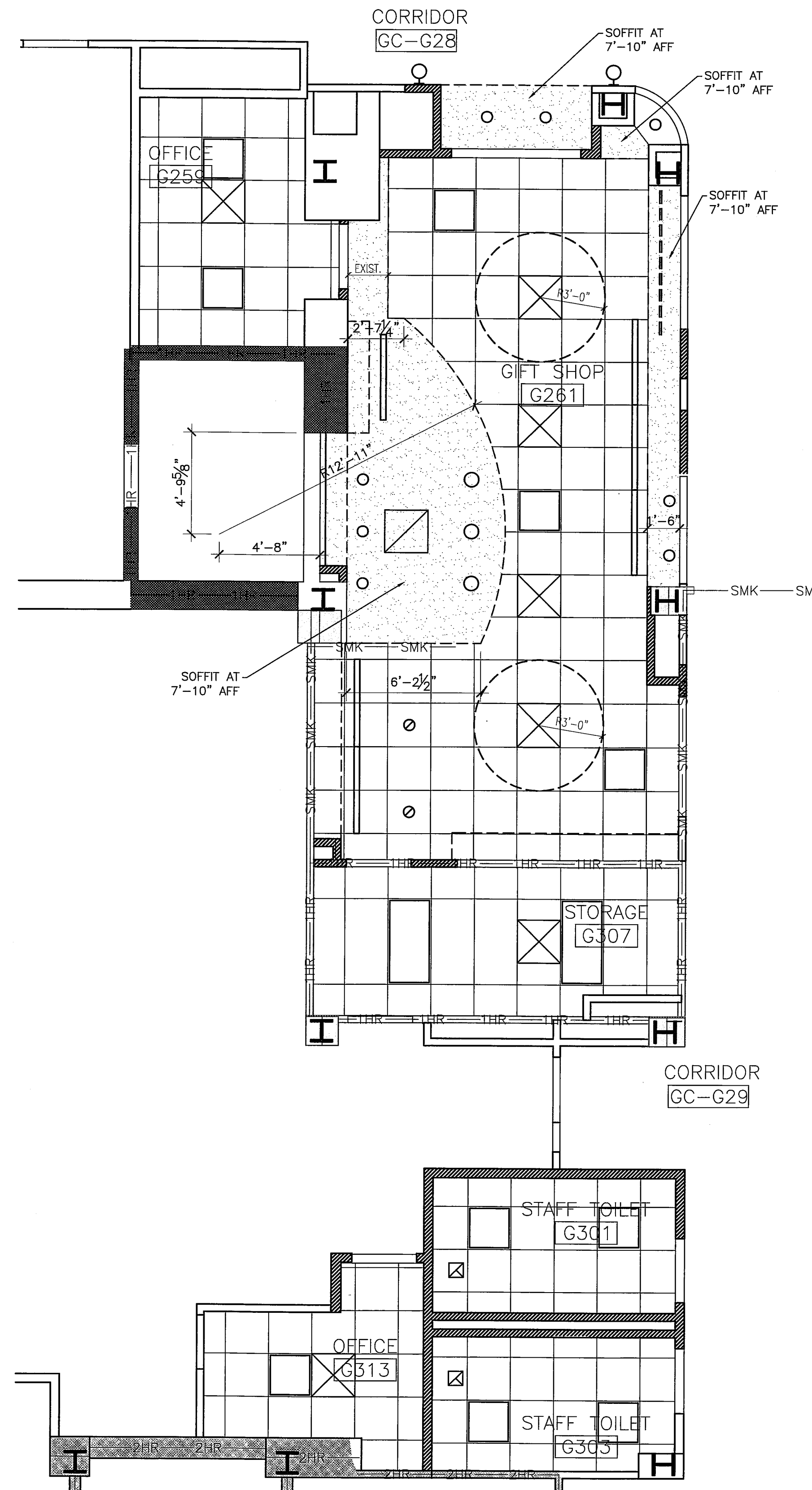
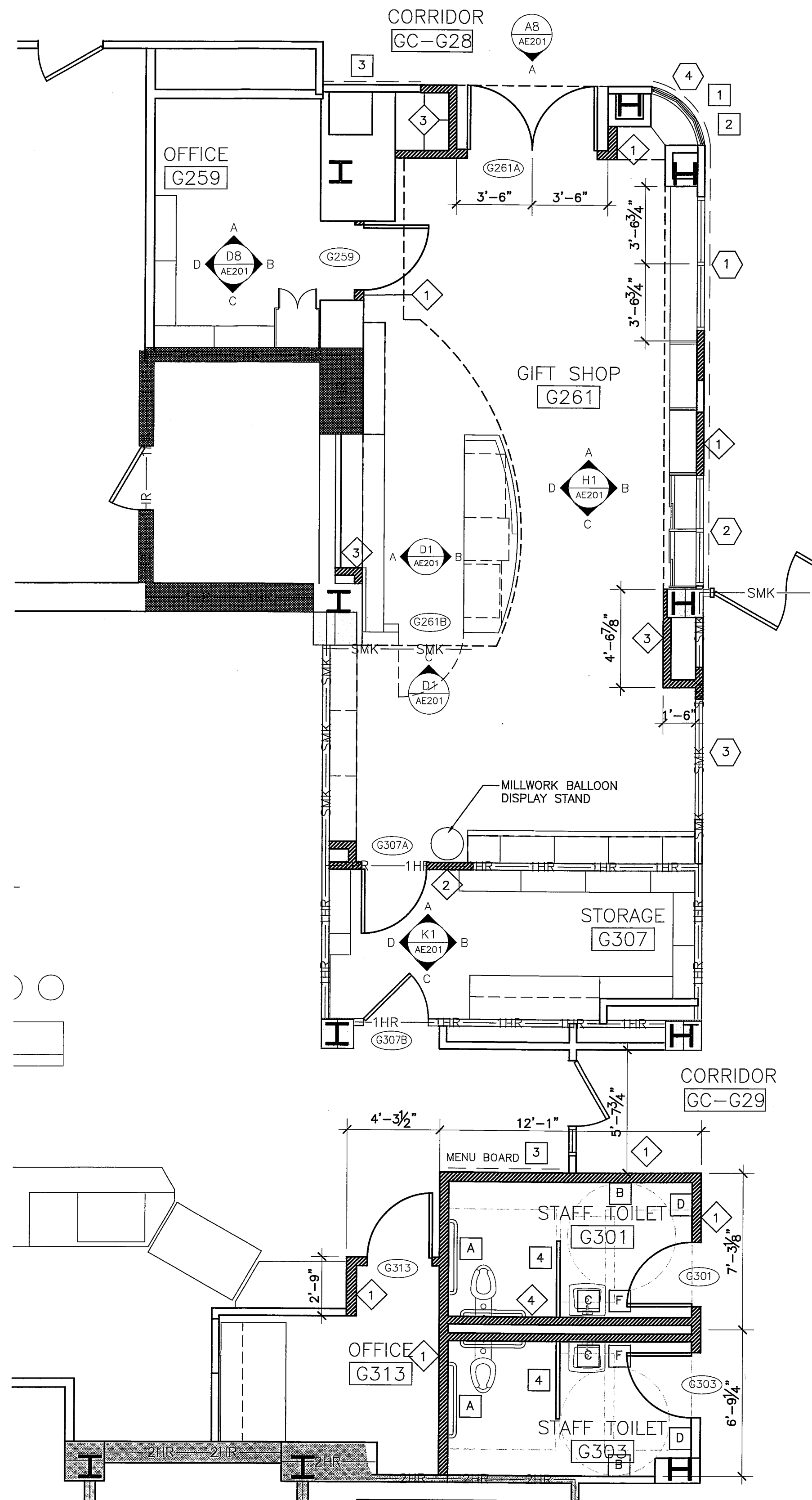
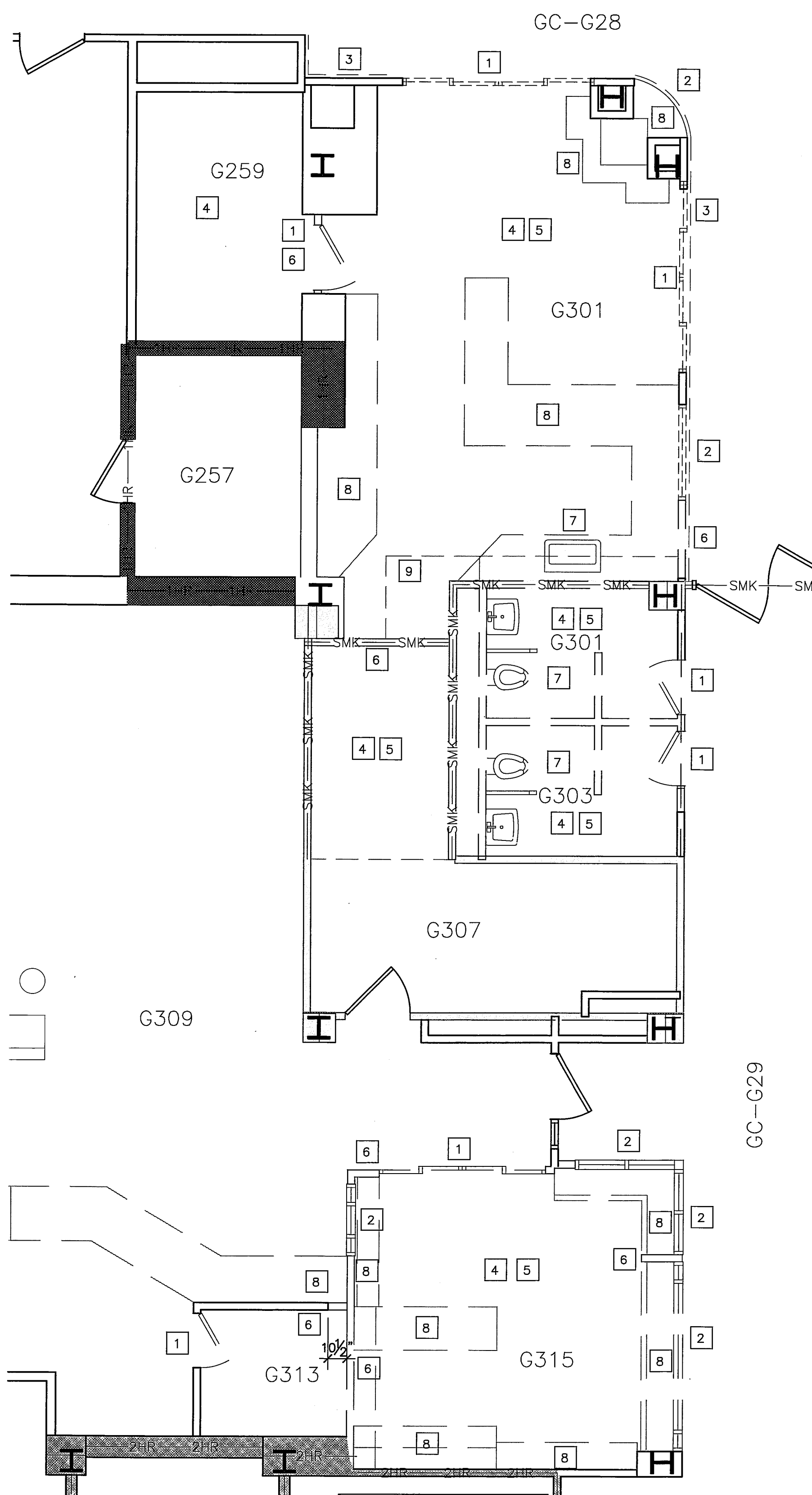
SEE A1/A201 FOR TOILET ACCESSORIES KEY AND MOUNTING HEIGHTS

PARTITION TYPES:

- 1 ACOUSTICAL SEPARATION WALL: 3/8" METAL STUDS SPACED 16" O.C. FULL HEIGHT TO STRUCTURE. (1) LAYER 5/8" GYP. BD. FULL HEIGHT TO STRUCTURE BOTH SIDES. PROVIDE FIBERGLASS BATT INSULATION FULL DEPTH OF STUDS. PROVIDE ACOUSTICAL SEALANT AT TOP AND BOTTOM OF WALL. PROVIDE SLIP TRACK AT TOP OF WALL.
- 2 1-HOUR RATED WALL (U.L. DESIGN NO. U419): 3/8" METAL STUDS SPACED 16" O.C. FULL HEIGHT TO STRUCTURE. (1) LAYER 5/8" TYPE X GYP. BD. FULL HEIGHT TO STRUCTURE BOTH SIDES. PROVIDE FIBERGLASS BATT INSULATION FULL DEPTH OF STUDS. PROVIDE ACOUSTICAL SEALANT AT TOP AND BOTTOM OF WALL. PROVIDE SLIP TRACK AT TOP OF WALL.
- 3 CHASE WALL: 3/8" METAL STUDS SPACED 16" O.C. TO 6" ABOVE CEILING. BRACE TOP OF WALL TO STRUCTURE. (1) LAYER 5/8" GYP. BD. ON EXPOSED SIDE.
- 4 PLUMBING WALL: DOUBLE STUD WALL CONSISTING OF 3/8" METAL STUDS AT 16" O.C. FULL HEIGHT TO STRUCTURE, WITH (1) LAYER 5/8" GYP. BD. ON EXPOSED FACES AND FIBERGLASS BATT INSULATION FULL DEPTH OF ONE STUD CAVITY. PROVIDE 4" CLEAR BETWEEN ROWS OF STUDS FOR LAVATORY HANGER.

GENERAL NOTES:

1. DO NOT SCALE DRAWINGS
2. FIELD VERIFY ALL DIMENSIONS PRIOR TO PROCEEDING WITH WORK. IF DISCREPANCIES ARE FOUND, NOTIFY ARCHITECT IN WRITING FOR CLARIFICATION BEFORE PROCEEDING WITH WORK.
3. ALL DIMENSIONS ARE MEASURED TO FACE OF FINISH.
4. PROVIDE 2 HR RATED FIRESTOPPING SYSTEM (U.L. RATED) AT FLOOR PENETRATIONS. SEAL PENETRATIONS AT CORRIDOR WALLS TO LIMIT THE TRANSFER OF SMOKE.
5. DOOR JAMBS SHALL BE LOCATED 6" FROM CORNER UNLESS NOTED OTHERWISE. MAINTAIN 18" CLEAR FROM STRIKE SIDE OF DOOR TO ANY OBSTRUCTION ON PULL SIDE. MAINTAIN 12" CLEAR FROM STRIKE SIDE OF DOOR TO ANY OBSTRUCTION ON PUSH SIDE WHERE DOOR HARDWARE INCLUDES CLOSER.
6. PROVIDE BLOCKING FOR ALL CASEWORK, WALL-MOUNTED DOOR STOPS, AND WALL-MOUNTED FIXTURES AND EQUIPMENT.
7. PATCH HOLES AND CRACKS IN EXISTING WALLS TO RECEIVE NEW PAINT.
8. PROVIDE FIRESTOPPING AT ALL MECHANICAL, ELECTRICAL AND PLUMBING PENETRATIONS IN FIRE-RATED PARTITIONS AND FLOOR/CEILING ASSEMBLIES. MATCH ASSEMBLY FIRE RATING.
9. COORDINATE MECHANICAL, PLUMBING AND ELECTRICAL FLOOR AND WALL PENETRATIONS. UNLESS NOTED OTHERWISE, ELECTRICAL CONDUIT AND WIRING, PLUMBING AND MECHANICAL PIPING SHALL BE CONCEALED AND WALL FRAMING SHALL BE OF ADEQUATE DIMENSION TO ACCOMPLISH THIS WITHOUT CHANGES IN WALL PLANE.
10. CONTRACTOR SHALL PROVIDE INFECTION CONTROL ENCLOSURES PER MMC STANDARDS. AVOID ANY IMPACT TO THE AREAS DESIGNATED FOR OWNER USE AND OCCUPANCY.



A1 REMOVALS PLAN

1/4" = 1'-0"

A6 FLOOR PLAN

1/4" = 1'-0"

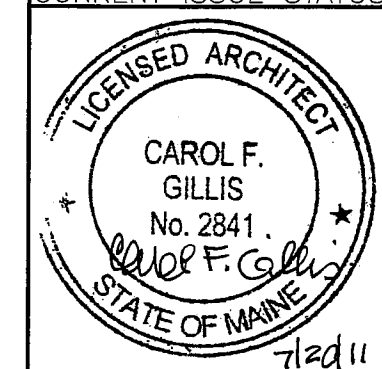
A11 REFLECTED CEILING PLAN

1/4" = 1'-0"

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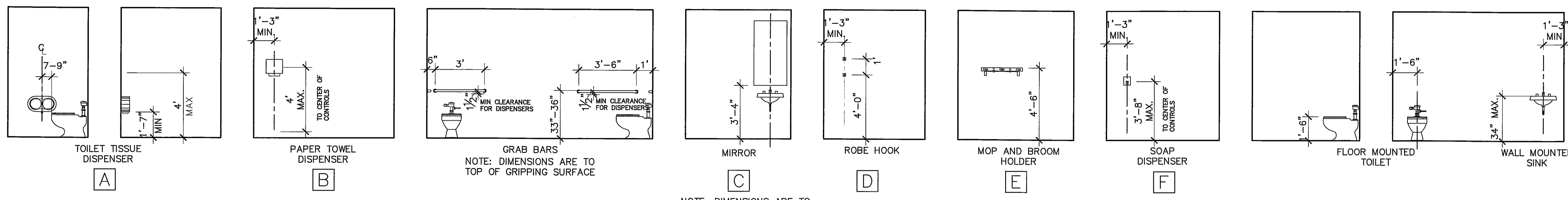
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**REMOVALS, FLOOR PLAN,
REFLECTED CEILING PLAN**

SHEET TITLE:	DATE:	7/19/11	GRAPHIC SCALE:	0"
SCALE:	AS NOTED			
PROJECT NO.:	2010-01	SHEET No.:		
DRAWN BY:	CFG			
A/E OF RECORD:	CFG			

AE 101

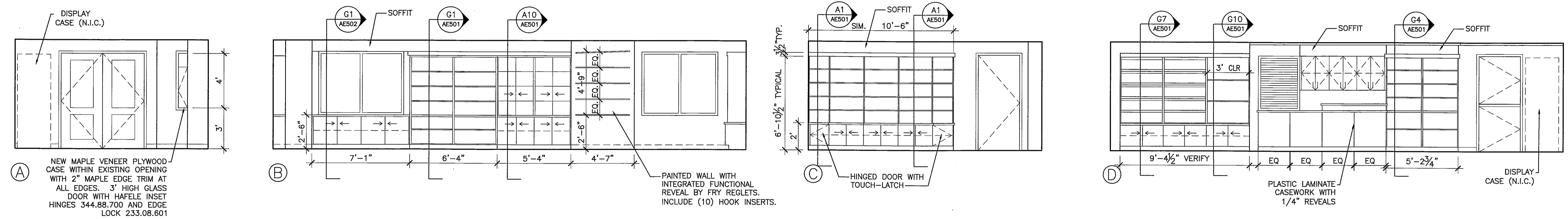


- TOILET ACCESSORIES KEY:**
- A** TOILET TISSUE DISPENSER: BOBRICK B-274
 - B** PAPER TOWEL DISPENSER: BY OWNER
 - C** MIRROR: BOBRICK B-165 1836
 - D** ROBE HOOK: BOBRICK B-671
 - E** NOT USED
 - F** SOAP DISPENSER: BY OWNER
 - GRAB BARS: BOBRICK B-5806 SERIES

NOTES:
 1. CONTRACTOR TO PROVIDE WOOD BLOCKING FOR ALL ITEMS TO BE WALL MOUNTED.
 2. NOT ALL ACCESSORIES SHOWN ARE APPLICABLE TO THIS PROJECT.

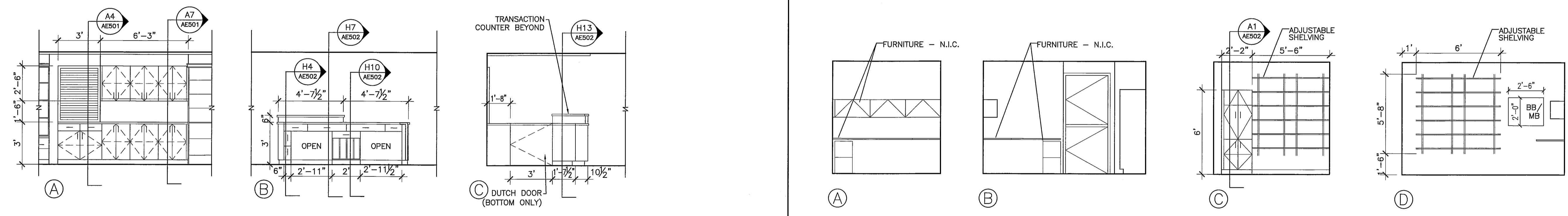
K1 TOILET ACCESSORY KEY AND TYPICAL MOUNTING HEIGHTS

1/4" = 1'-0"



H1 INTERIOR ELEVATIONS - GIFT SHOP G261

1/4" = 1'-0"

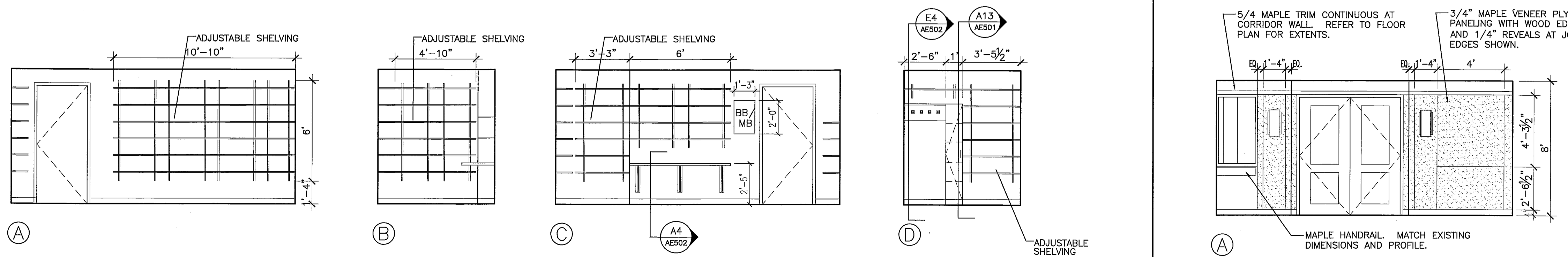


D1 INTERIOR ELEVATIONS - GIFT SHOP G261

1/4" = 1'-0"

D8 INTERIOR ELEVATIONS - OFFICE 259

1/4" = 1'-0"



A1 INTERIOR ELEVATIONS - STORAGE G307

1/4" = 1'-0"

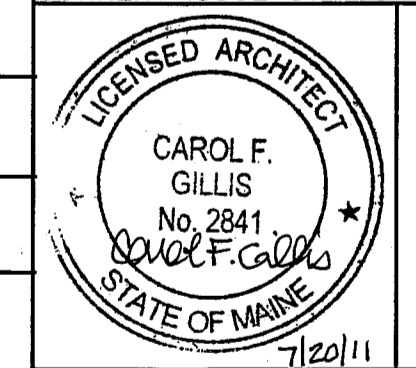
A8 INTERIOR ELEVATIONS - CORRIDOR GC-G28

1/4" = 1'-0"

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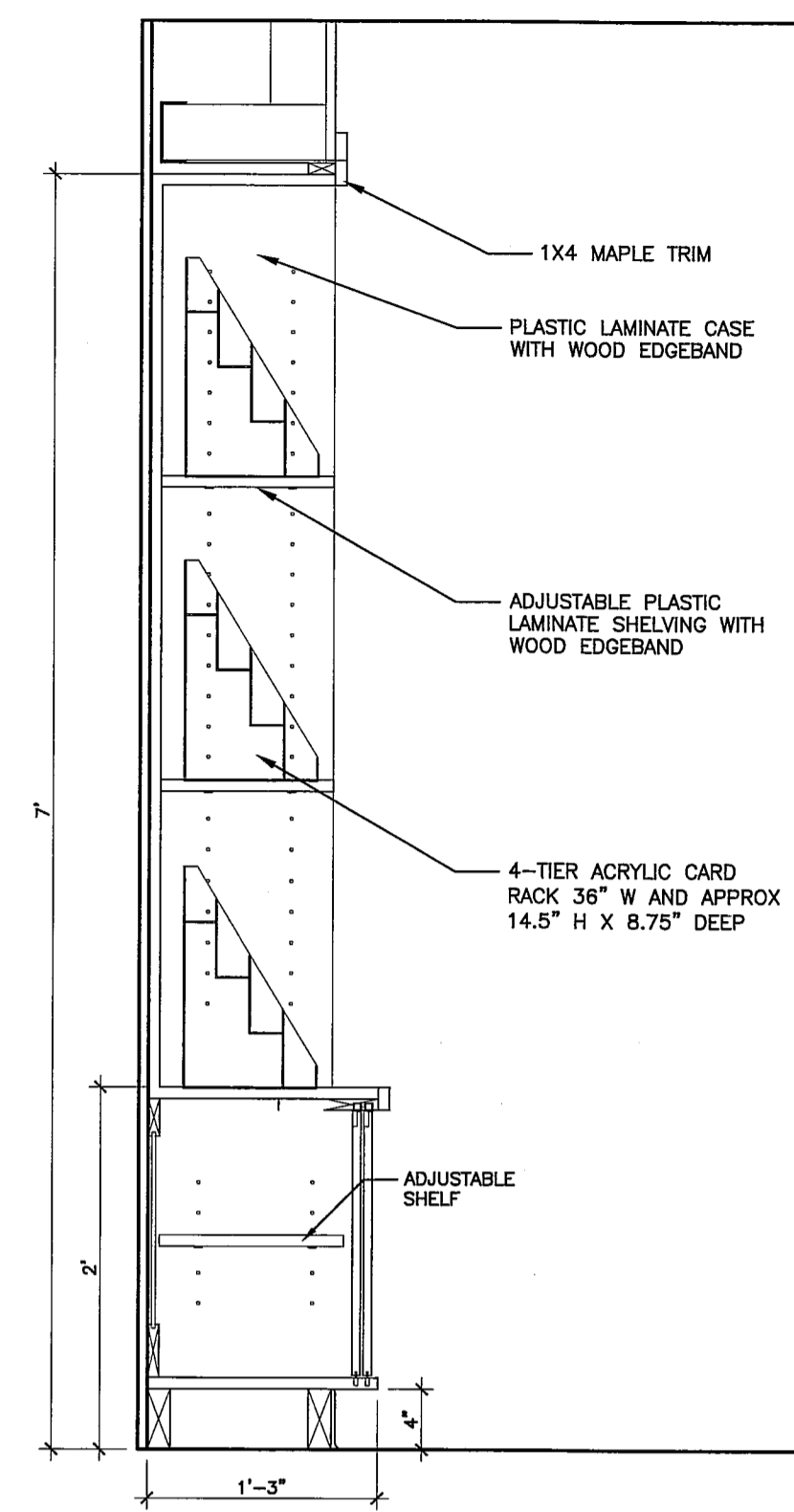
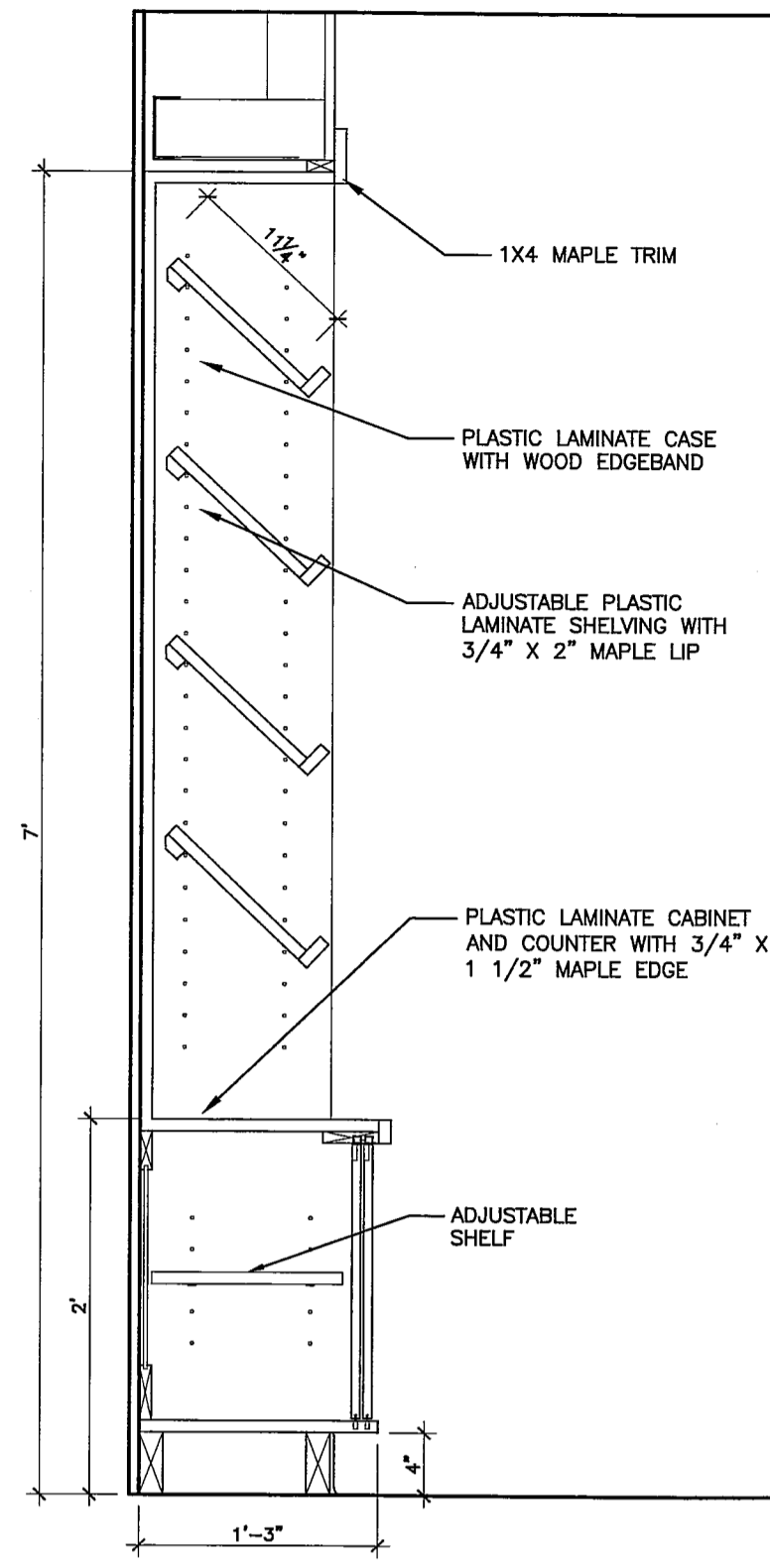
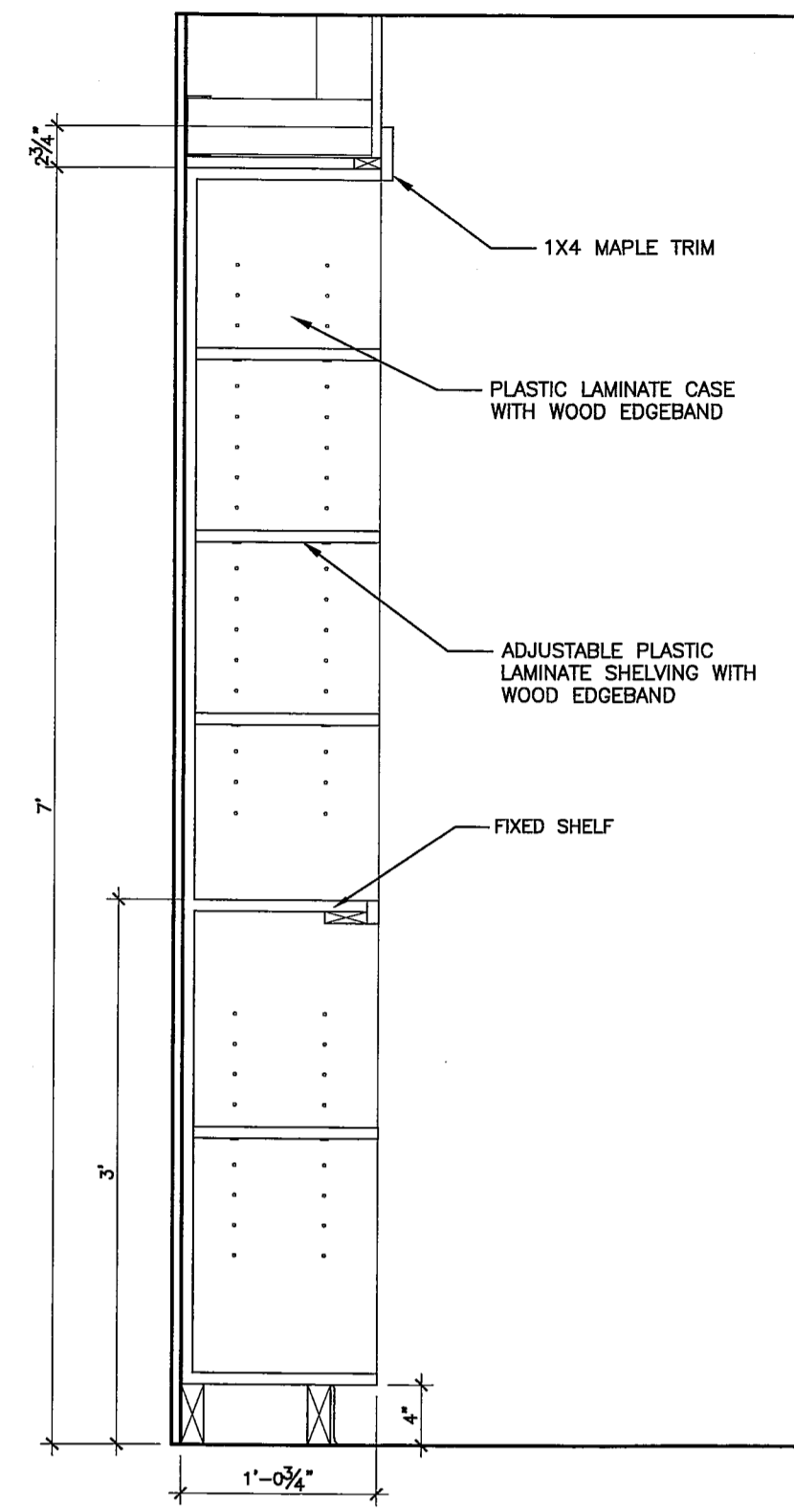
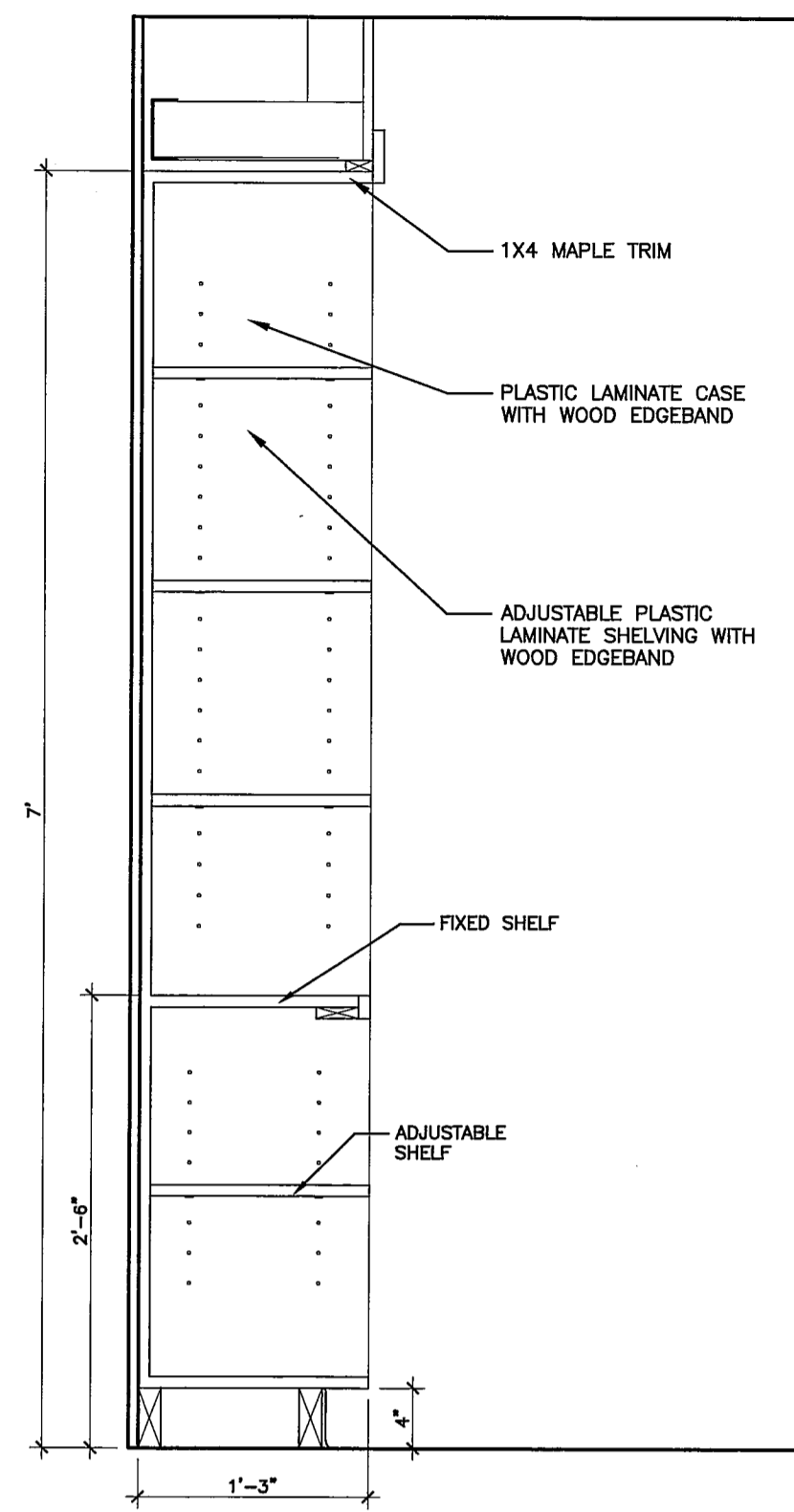


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INTERIOR ELEVATIONS

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DATE:	AS NOTED	1"
SCALE:	2010-01	SHEET No.
PROJECT NO.:	CFG	AE 201
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A/E OF RECORD:	CFG	



G1 CASEWORK AND SOFFIT DETAIL

G4 CASEWORK DETAIL

G7 CASEWORK DETAIL

G10 CASEWORK DETAIL

1" = 1'-0"

1" = 1'-0"

1" = 1'-0"

1" = 1'-0"

CASEWORK SPECIFICATIONS:

WOOD TRIM BAND: WHITE MAPLE, STAINED TO MATCH PLASTIC LAMINATE SUGAR MAPLE II

PLASTIC LAMINATE CABINETS: AMI CUSTOM GRADE, WITH WATER-RESISTANT CORE. PLASTIC LAMINATE TO BE PIONITE WM115, SUGAR MAPLE II, WITH MAPLE EDGE BANDING AT DOORS AND EXPOSED PANELS AND EDGES, STAINED TO MATCH.

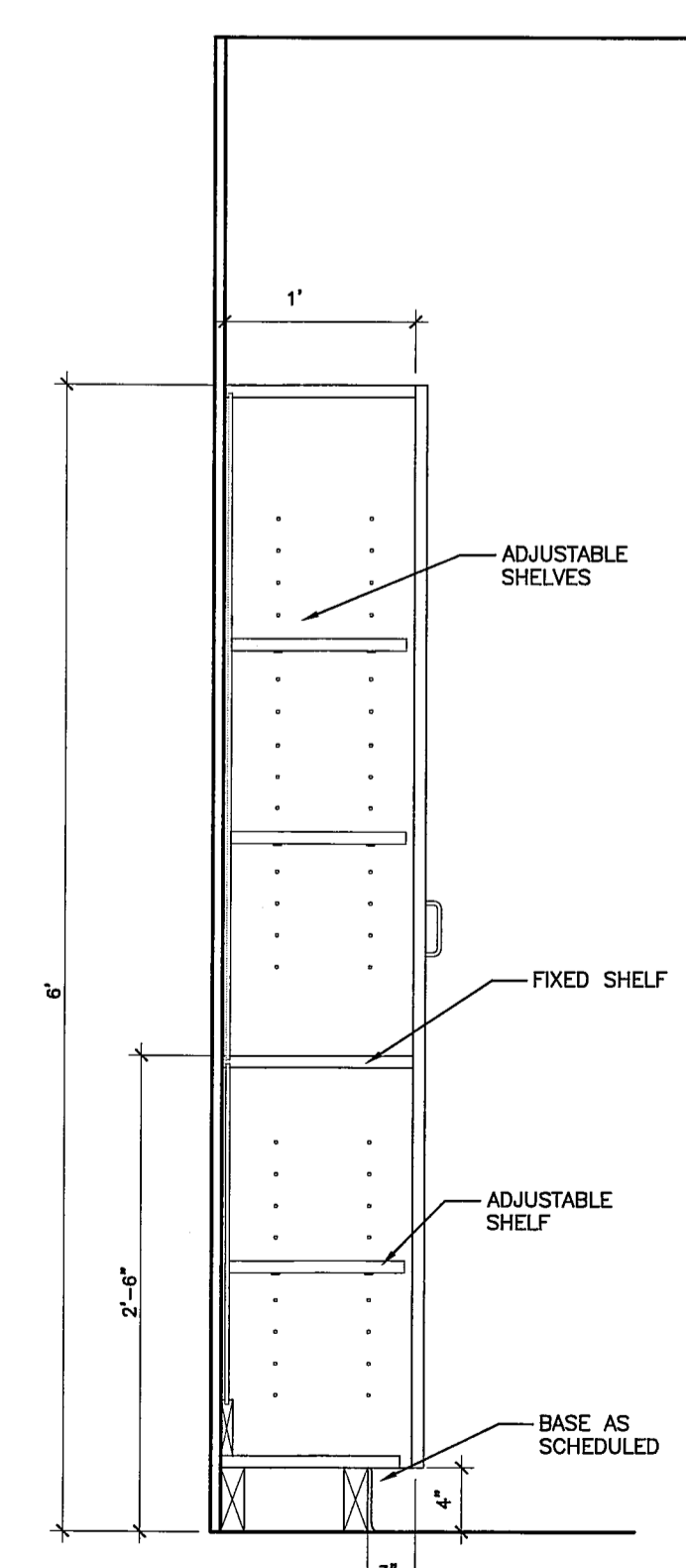
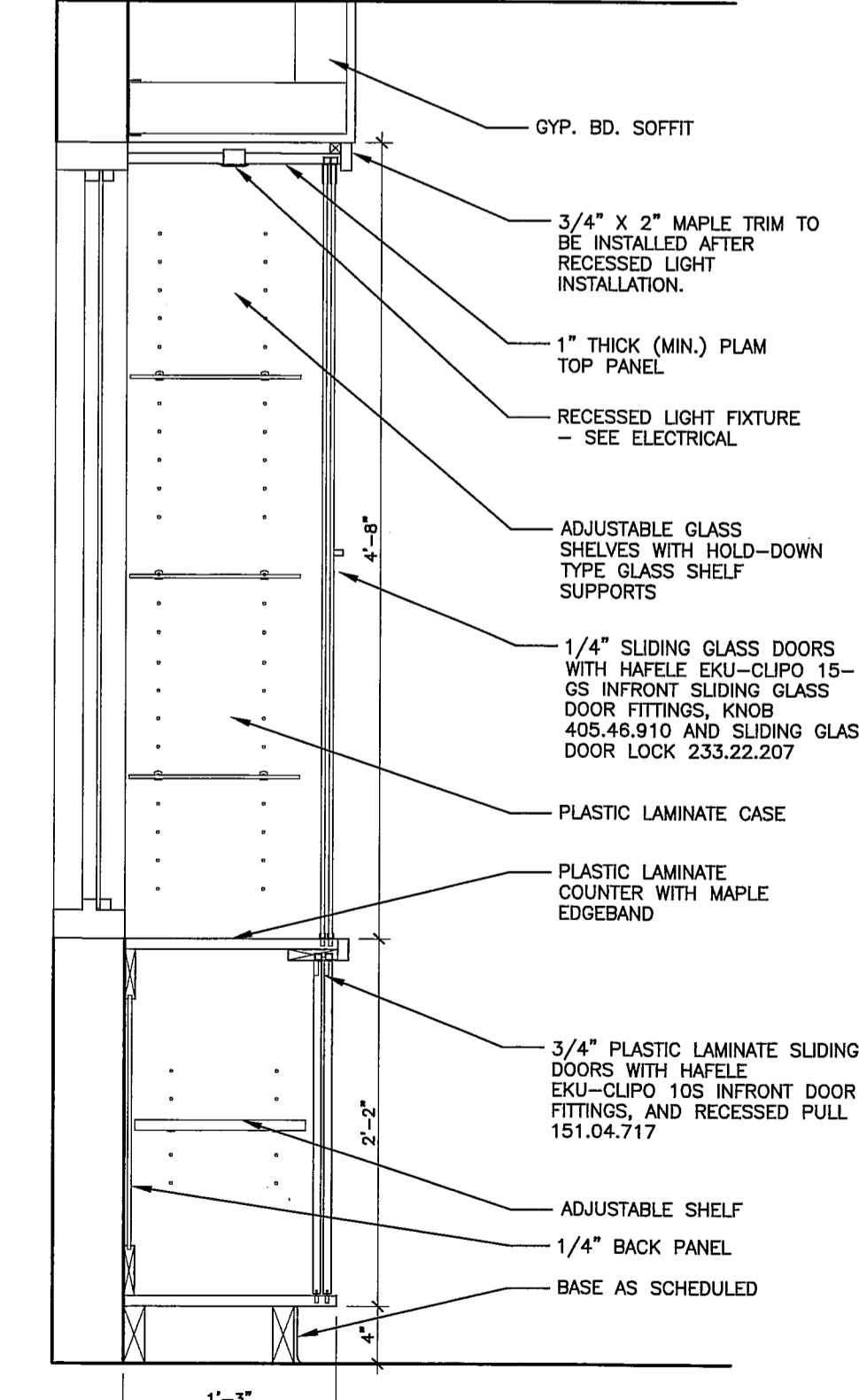
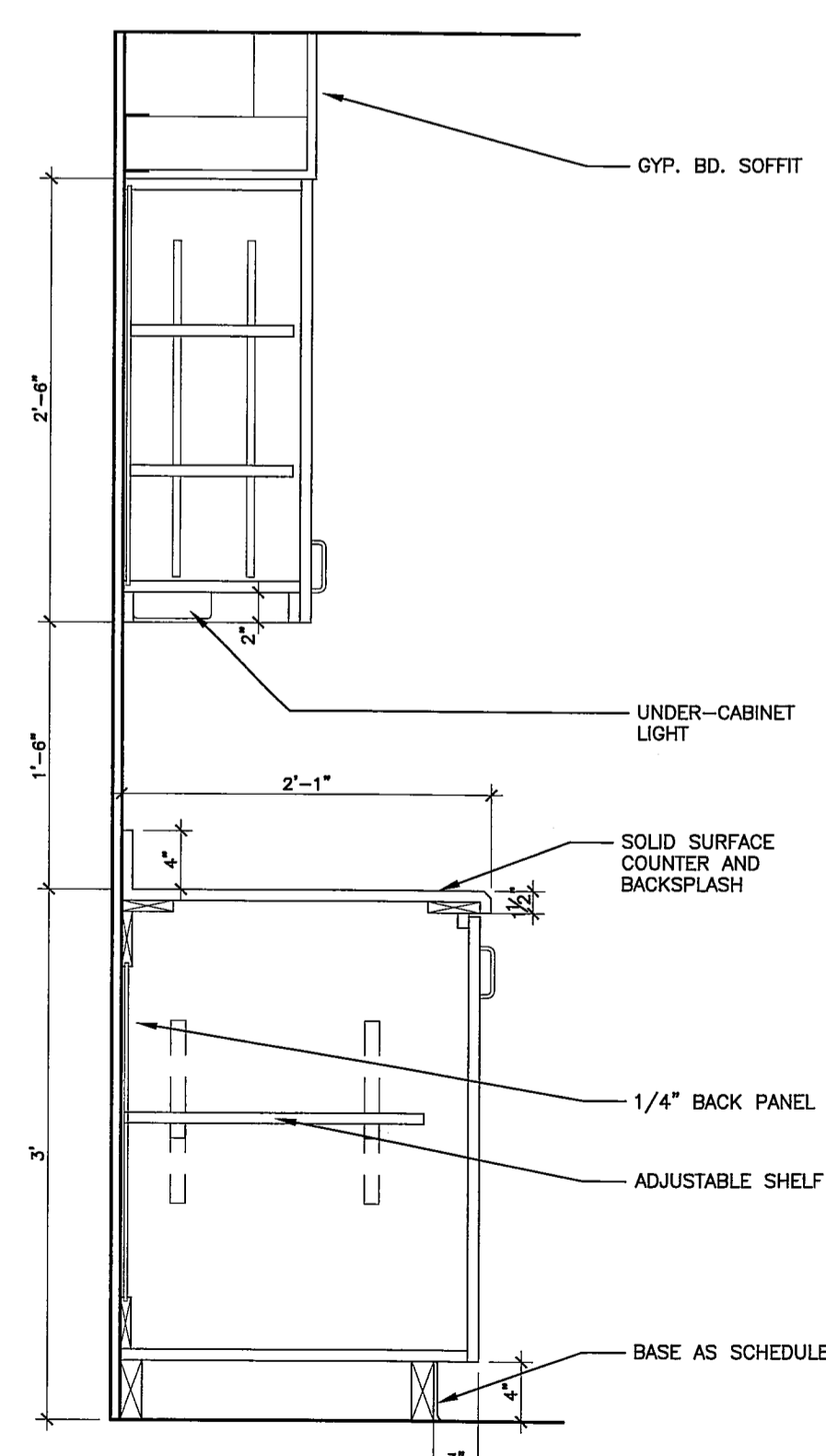
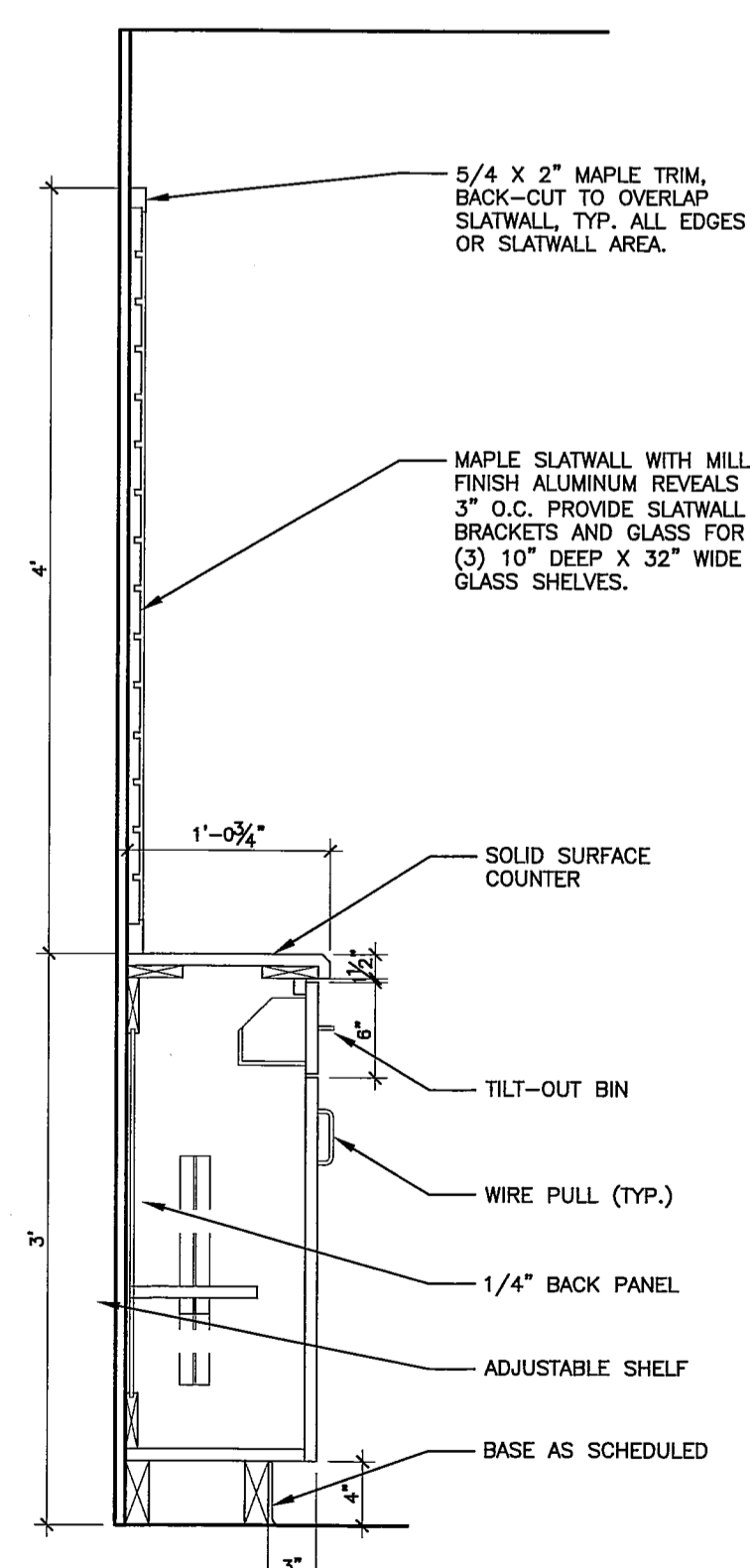
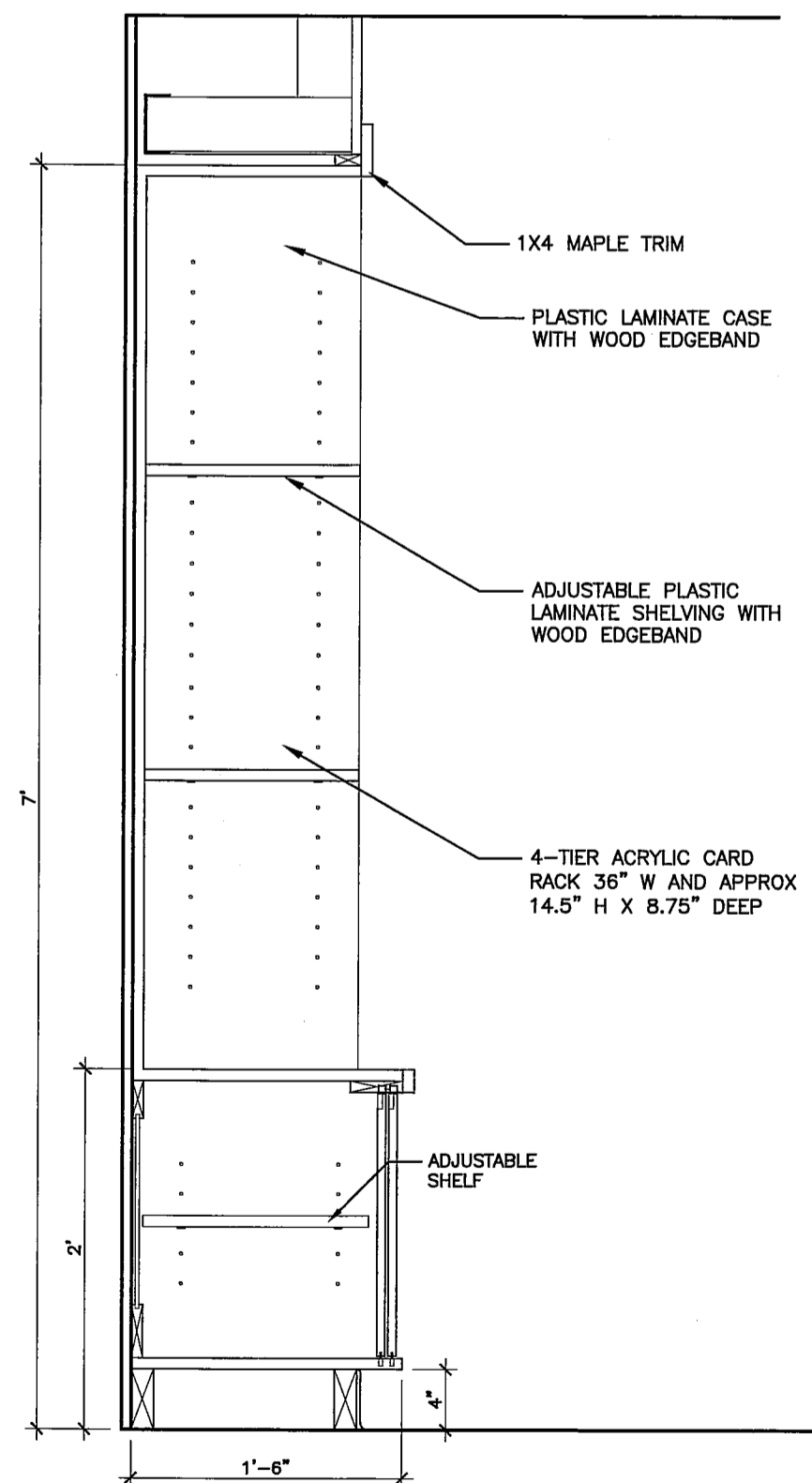
SOLID SURFACE COUNTERTOPS: CORIAN, SERENE SAGE.

GLAZING AT CABINET DOORS: 1/8" THICK TEMPERED GLASS, CLEAR.

CABINET HARDWARE:

- DOOR AND DRAWER PULLS: BACK-MOUNTED WIRE PULL 5" LONG, 3/8" DIAMETER, BRUSHED CHROME OVER BRASS OR BRONZE. IVES MODEL 38 OR EQUAL.
- BOX DRAWER SLIDES: SIDE MOUNTED AND EXTENDING UNDER BOTTOM EDGE OF DRAWER, 3/4" EXTENSION TYPE, EPOXY COATED WITH POLYMER ROLLERS.
 - GRADE 1 FOR DRAWERS NOT MORE THAN 6" HIGH OR METABOX TYPE M BY BLUM.
 - GRADE 2 FOR DRAWERS MORE THAN 6" HIGH OR METABOX TYPE H BY BLUM.
- GROMMET FOR CABLE PASSAGE THROUGH COUNTERTOP: 3" OD BLACK MOLDED PLASTIC GROMMET AND MATCHING PLASTIC CAPS WITH SLOT FOR WIRE PASSAGE. DOUG MOCKETT & CO. EDP SERIES OR EQUAL.
- ADJUSTABLE SHELF SUPPORTS: BMHA GRADE 1 PILASTER STANDARDS AND CLIPS OR BMHA A156.9, B04013; METAL SHELF RESTS, TWO-PIN TYPE WITH SHELF HOLD-DOWN CLIP, INSTALLED IN HOLES DRILLED IN CABINET SIDES AND PARTITIONS.
- FRAMELESS CONCEALED HINGES (EUROPEAN TYPE): BMHA A156.9, B01602, 135 DEGREES OF OPENING, SELF-CLOSING.
- HEAVY-DUTY TOUCH LATCH: SUGATSUNE MODEL MC-37

ADJUSTABLE SHELVING: KNAPE AND VOGT 85 SERIES DOUBLE-SLOTTED STANDARDS AND 185 SERIES BRACKETS OR EQUAL.



A1 CASEWORK DETAIL

A4 CASEWORK DETAIL

A7 CASEWORK DETAIL

A10 CASEWORK DETAIL

A13 CASEWORK DETAIL

1" = 1'-0"

1" = 1'-0"

1" = 1'-0"

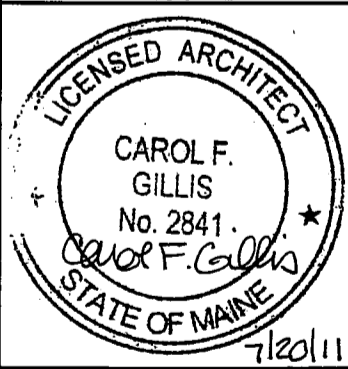
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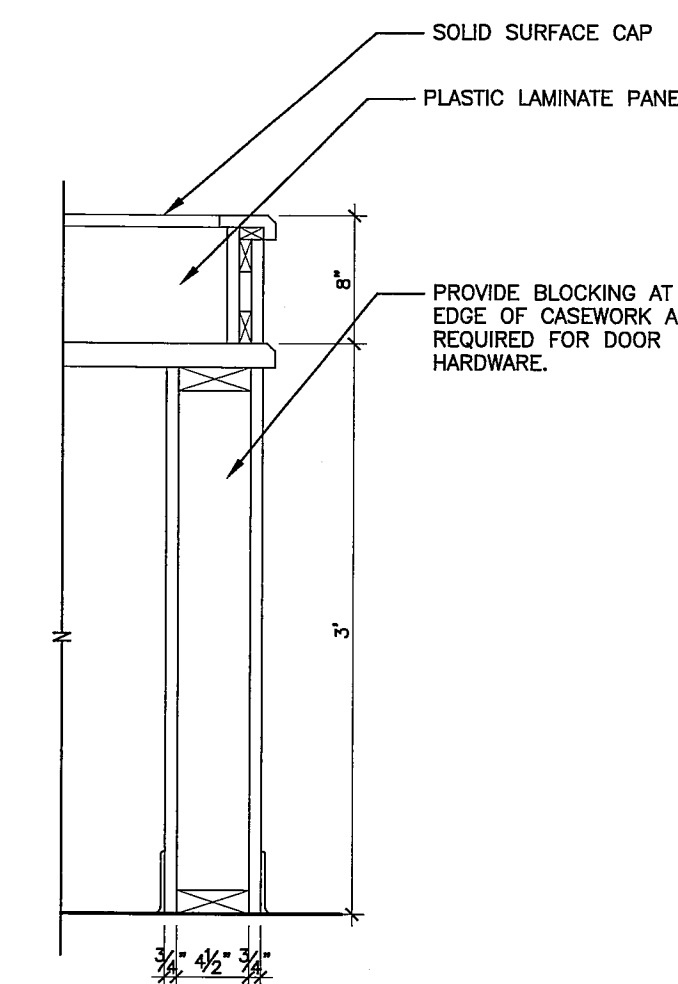
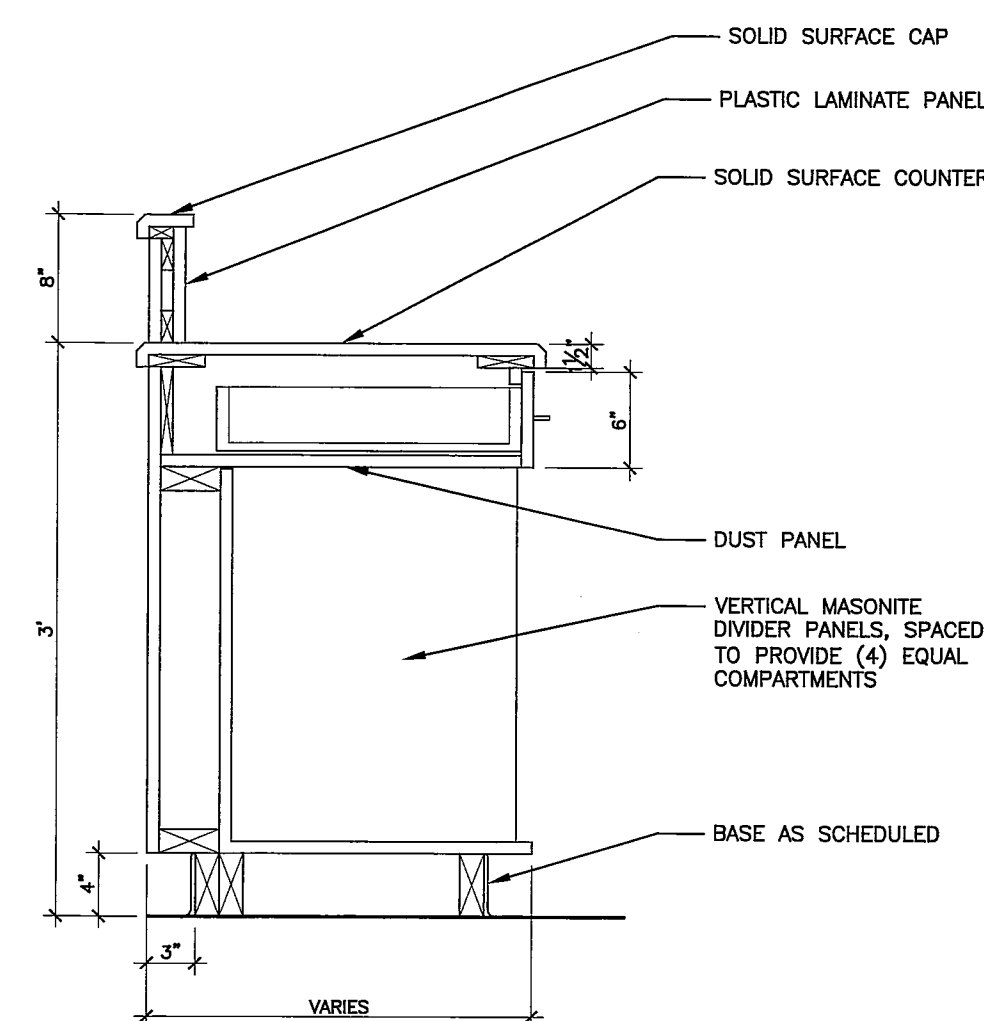
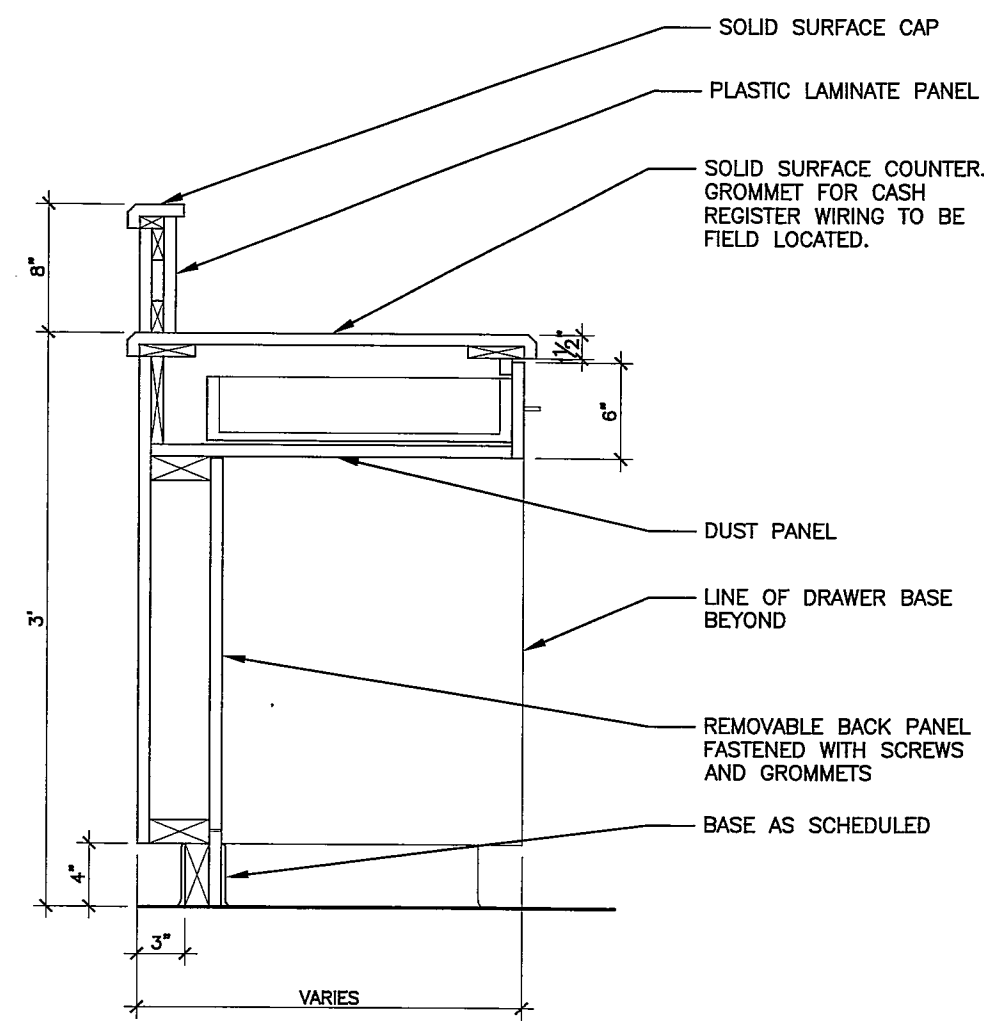
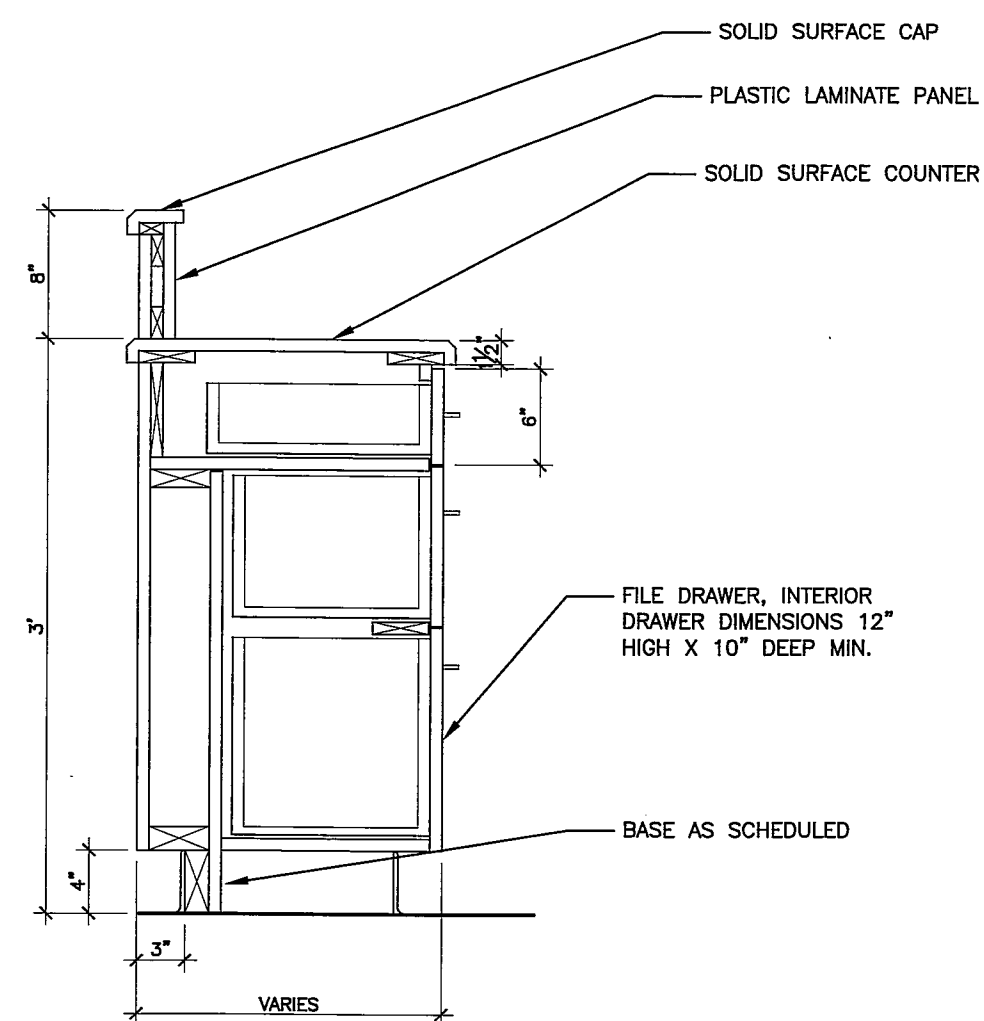
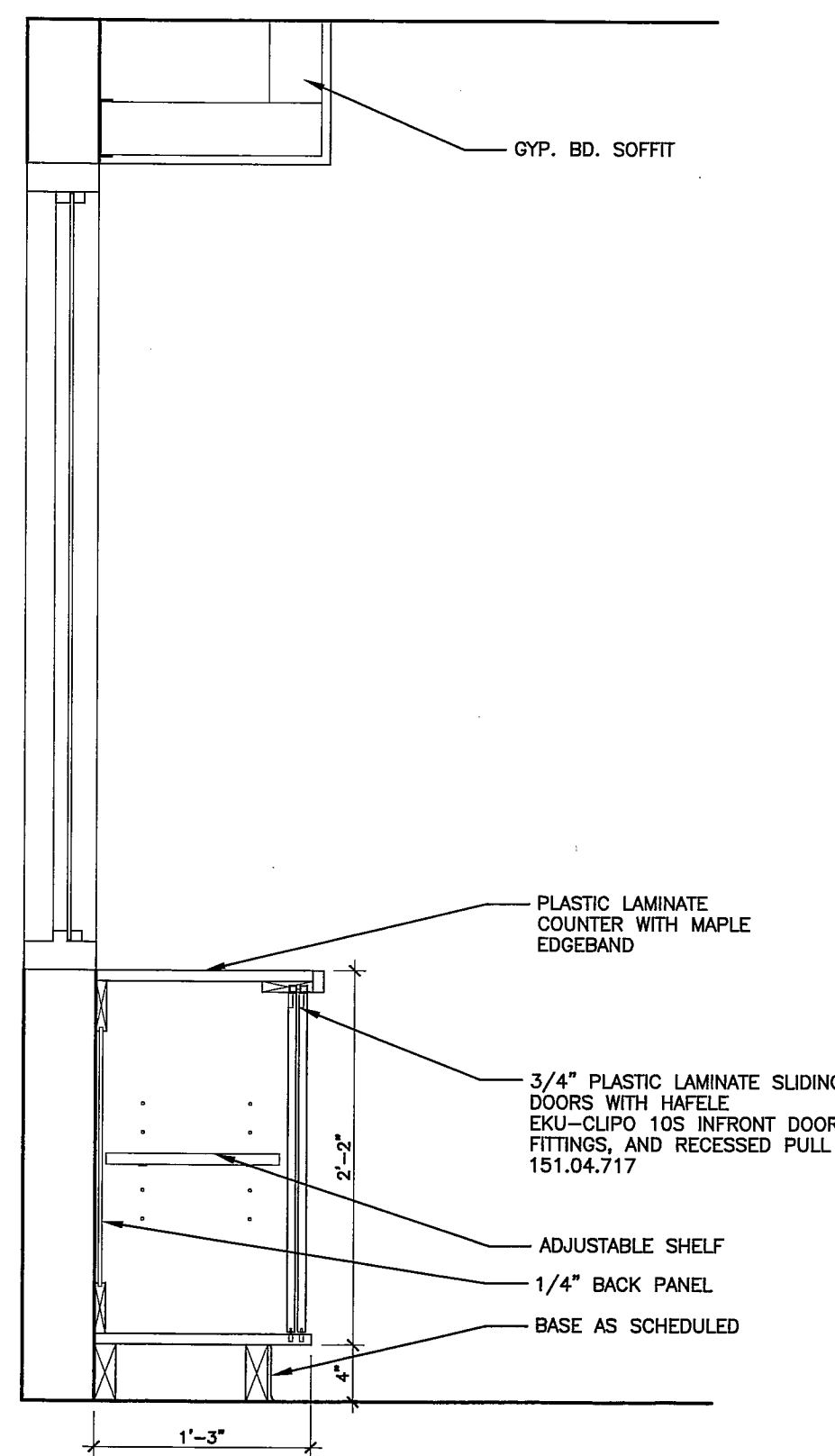
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SOFFIT AND CASEWORK
DETAILS

SHEET TITLE:	7/19/11	GRAPHIC SCALE:	0"
DATE:	AS NOTED		
PROJECT NO.	2010-01	SHEET No.	
DRAWN BY:	CFG		
A/E OF RECORD:	CFG		

AE 501



H4 CASEWORK DETAIL

1" = 1'-0"

H7 CASEWORK DETAIL

1" = 1'-0"

H10 CASEWORK DETAIL

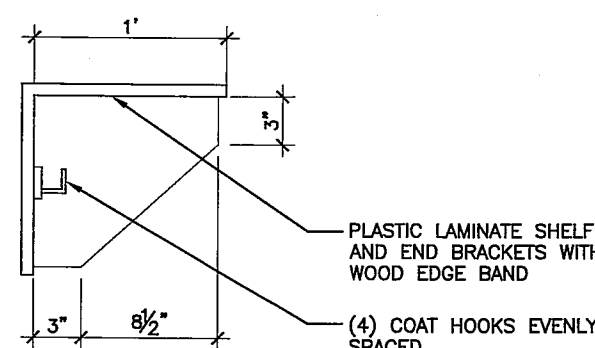
1" = 1'-0"

H13 CASEWORK DETAIL

1" = 1'-0"

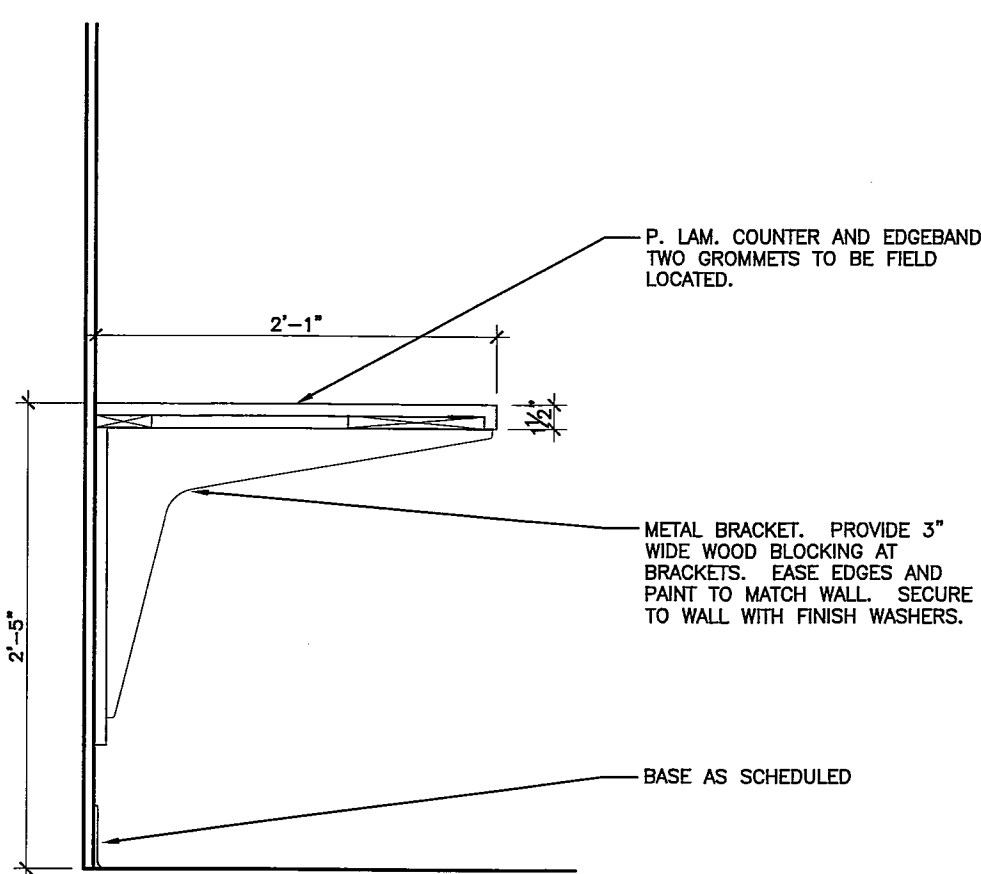
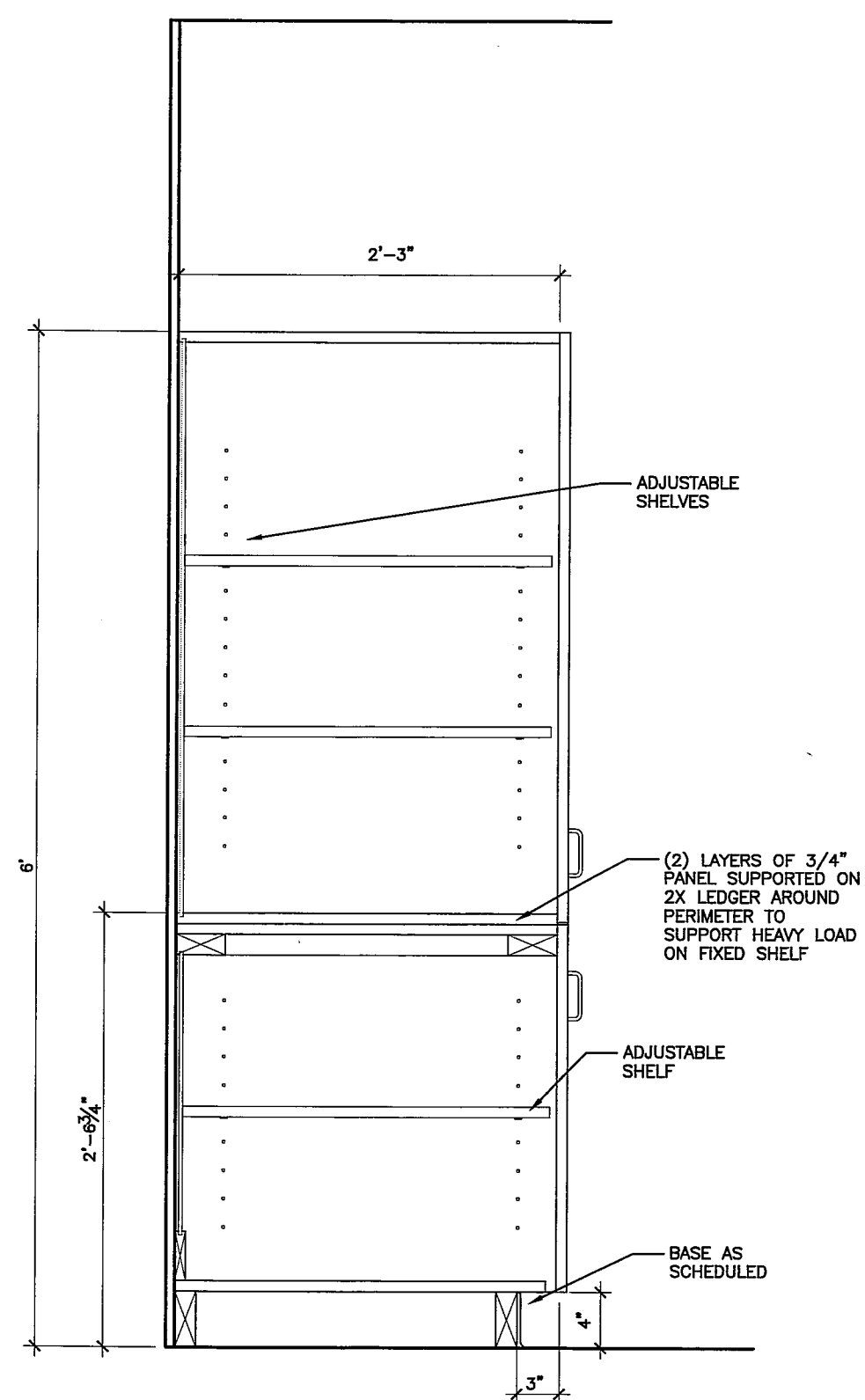
G1 CASEWORK DETAIL

1" = 1'-0"



E4 CASEWORK DETAIL

1" = 1'-0"



A1 CASEWORK DETAIL

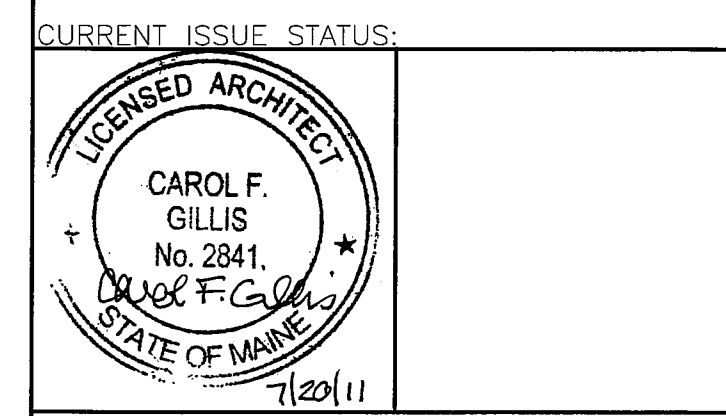
1" = 1'-0"

A4 CASEWORK DETAIL

1" = 1'-0"

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GIFT SHOP
PORTLAND, MAINE

CASEWORK DETAILS

SHEET TITLE:	CASEWORK DETAILS
DATE:	7/19/11
SCALE:	AS NOTED
PROJECT NO.:	2010-01
DRAWN BY:	CFG
A/E OF RECORD:	CFG
GRAPHIC SCALE:	0" = 1'-0"
SHEET NO.:	AE 502

ROOM FINISH SCHEDULE										
NO.	ROOM NAME	FLOOR	BASE	WALL				CEILING	HEIGHT	REMARKS
		MAT'L	MAT'L	NORTH	EAST	SOUTH	WEST	MAT'L		
G259	OFFICE	EXIST	RUBBER	PTD-1	PTD-1	PTD-1	PTD-1	ACT2	EXIST	
G261	GIFT SHOP	CARPET	RUBBER	PTD-1	PTD-2	PTD-1	PTD-1	GYP BD/ ACT1	8'-0"	1
G301	STAFF TOILET	CT	CT	PTD-1	PTD-1	PTD-1	PTD-2	ACT2	7'-10"	2
G302	STAFF TOILET	CT	CT	PTD-1	PTD-2	PTD-1	PTD-1	ACT2	7'-10"	
G307	STORAGE	EXIST	RUBBER	PTD-1	PTD-1	PTD-1	PTD-1	EXIST	EXIST	
G313	OFFICE	VCT	VCT	PTD-1	PTD-1	PTD-1	PTD-1	ACT2	7'-10"	2

FINISH SCHEDULE REMARKS KEY:
 1. ACCENT PAINT COLOR AT SOFFITS.
 2. ACCENT PAINT COLOR ON WALLS ADJACENT TO PAVILION GRILL.

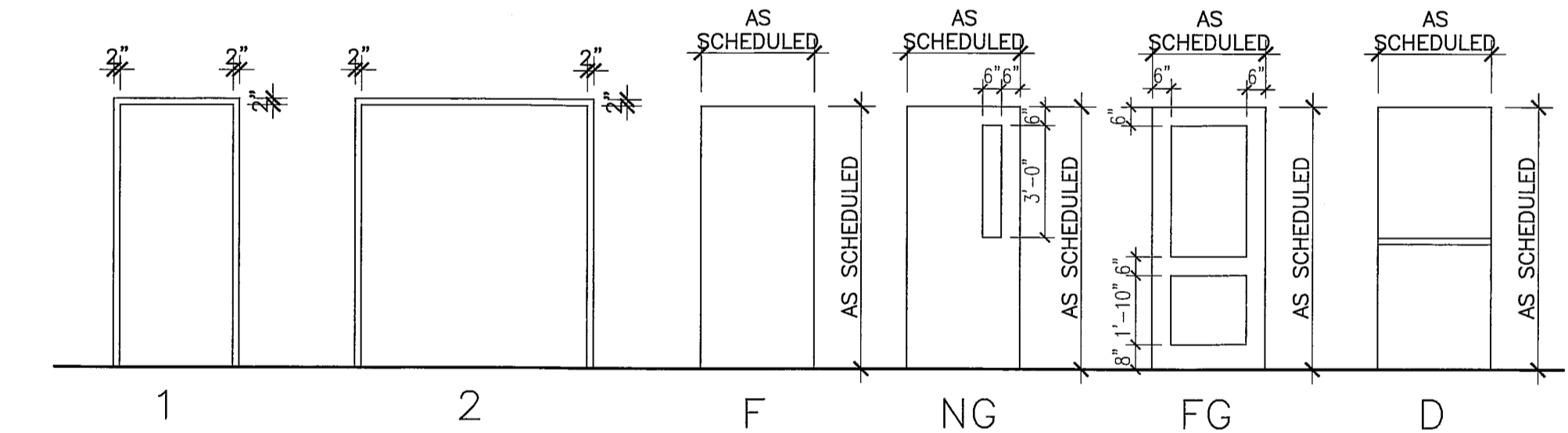
FINISH SPECIFICATIONS:
CARPET: MANNINGTON COMMERCIAL, STYLE: BARACOA II BROADLOOM. COLOR: JUMP AROUND
VCT: ARMSTRONG IMPERIAL TEXTURE.
CT: DAL-TILE PORCELAIN TILE, STYLE: ALTA VISTA, COLOR: DESERT SAND AV50, SIZE 6 X 6.
BASE: 4" JOHNSONITE RUBBER COVE BASE, TRADITIONAL PROFILE.
PAINT: PAINT ALL NEW AND EXISTING WALLS AND TRIM. PROVIDE ONE FINISH COAT AT EXISTING SURFACES. PROVIDE PRIMER AND 2 COATS AT NEW SURFACES. COLORS TO BE SELECTED. ALLOW FOR 2 COLOR SELECTIONS. SHERWIN WILLIAMS SUPERPAINT PRODUCT AND SHEEN PER MMC STANDARDS.
ACOUSTICAL CEILING:
 ACT1: USG FROST CLIMA PLUS #414, 2X2, SLB EDGE IN 15/16" GRID.
 ACT2: USG RADAR CLIMA PLUS #2210, 2X2, SQ EDGE IN 15/16" GRID.

DOOR SCHEDULE										
DOOR NO.	DOOR			GLAZE	DETAILS		HWS	FIRE RTG. (MIN.)	REMARKS	
	SIZE	MAT'L	ELEVATION		MAT'L	ELEV				
G259	3'-0" X 7'-0"	WOOD	D	*	HM	1	4	*	DUTCH DOOR	
G261A	PR 3'-0" X 7'-0"	WOOD	FG	TEMP.	HM	2	1	*		
G261B	3'-0" X 7'-0"	WOOD	D	*	HM	1	6	*	DUTCH DOOR (BOTTOM ONLY)	
G2301	3'-0" X 7'-0"	WOOD	F	*	HM	1	3	*		
G302	3'-0" X 7'-0"	WOOD	F	*	HM	1	3	*		
G307A	3'-0" X 7'-0"	WOOD	F	*	HM	1	2	45	ELECTRICAL HARDWARE	
G307B	3'-0" X 7'-0"	WOOD	F	*	HM	1	EXIST	*	ELECTRICAL HARDWARE	
G313	3'-0" X 7'-0"	WOOD	NG	WIRE.	HM	1	5	*		

DOOR HARDWARE:
 1. ACTIVE LEAF: HINGES, LOCKSET (ENTRANCE FUNCTION), WALL STOP. INACTIVE LEAF: HINGES, AUTOMATIC FLUSH BOLTS, WALL STOP.
 2. HINGES, PUSHBUTTON LOCKSET (OFFICE FUNCTION) WITH KEY OVERRIDE, ELECTROMAGNETIC DOOR HOLDER, CLOSER, WALL STOP.
 3. HINGES, LOCKSET (PRIVACY FUNCTION), CLOSER, WALL STOP.
 4. HINGES, LOCKSET (OFFICE FUNCTION), DUTCH DOOR HARDWARE, WALL STOP.
 5. HINGES, LOCKSET (OFFICE FUNCTION), WALL STOP.
 6. HINGES, ROLLER LATCH.

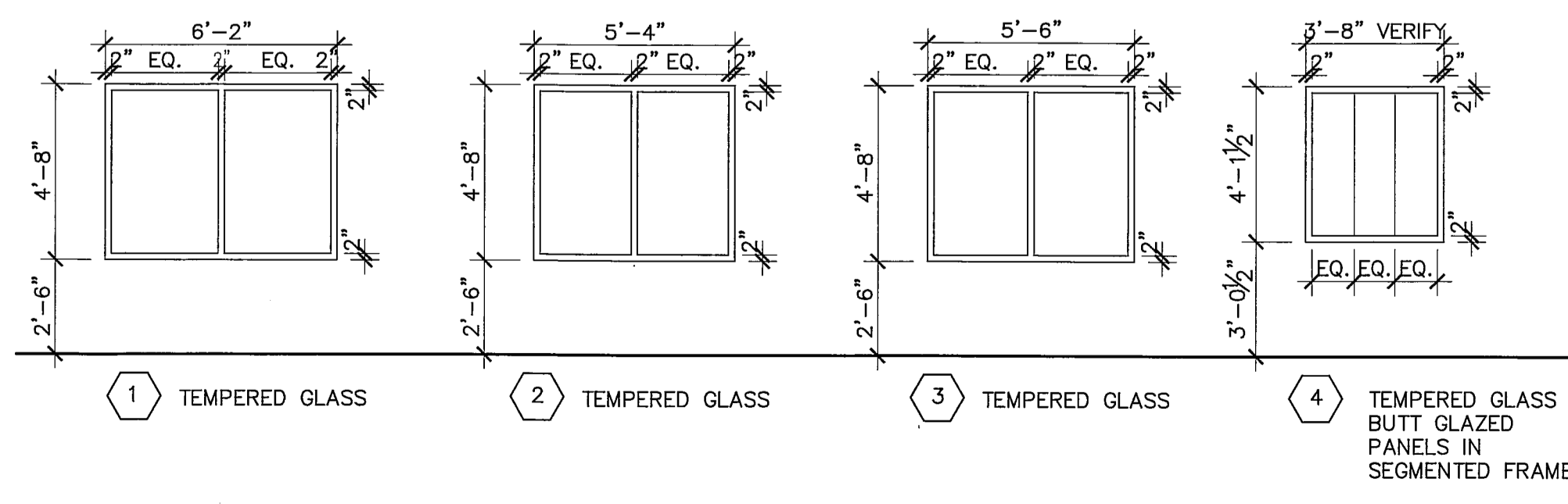
H5 ROOM FINISH AND DOOR SCHEDULES

N.T.S.



D11 DOOR AND FRAME ELEVATIONS

1/4" = 1'-0"

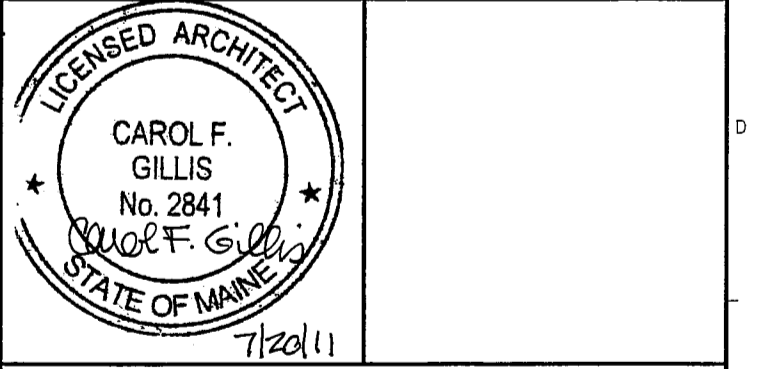


A11 BORROWED LITE ELEVATIONS

1/4" = 1'-0"

REV.	DESCRIPTION	DATE
0	Issued for Construction	7/19/11

ISSUED FOR CONSTRUCTION
7/19/11



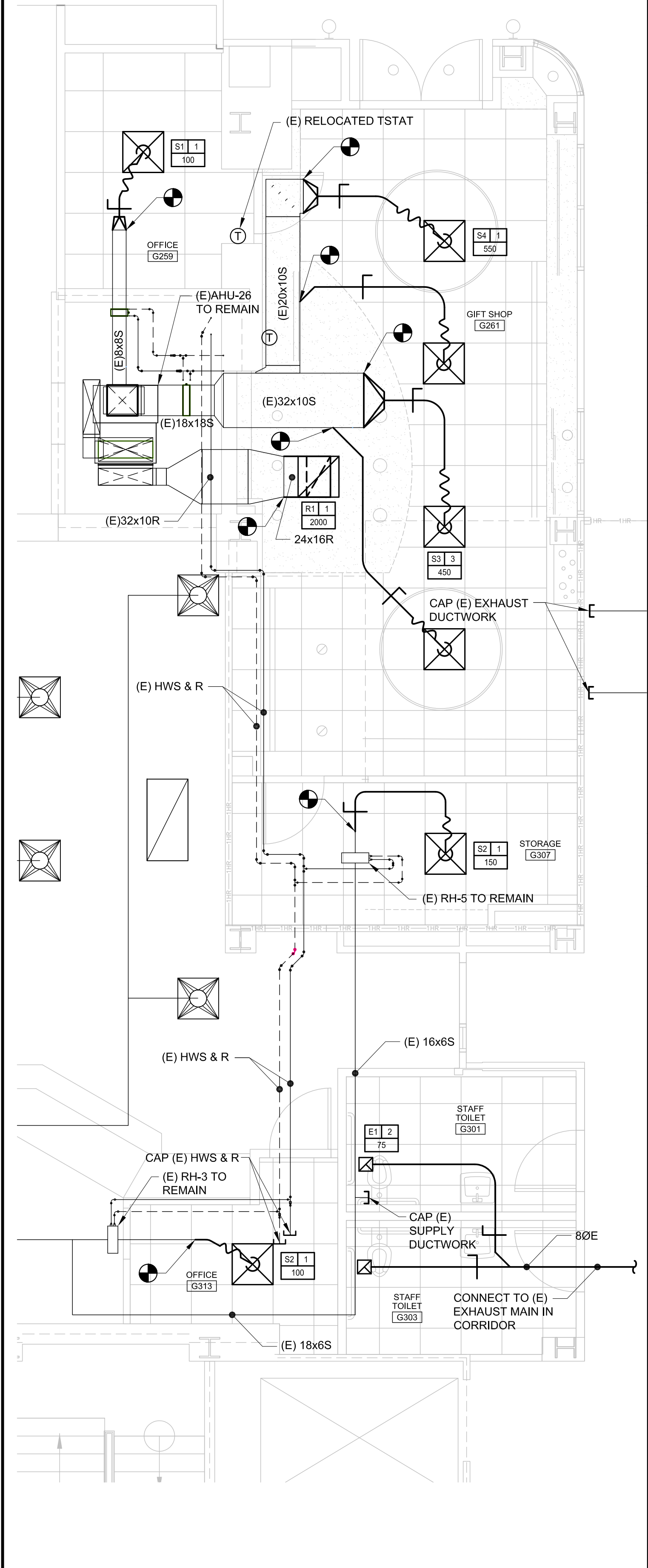
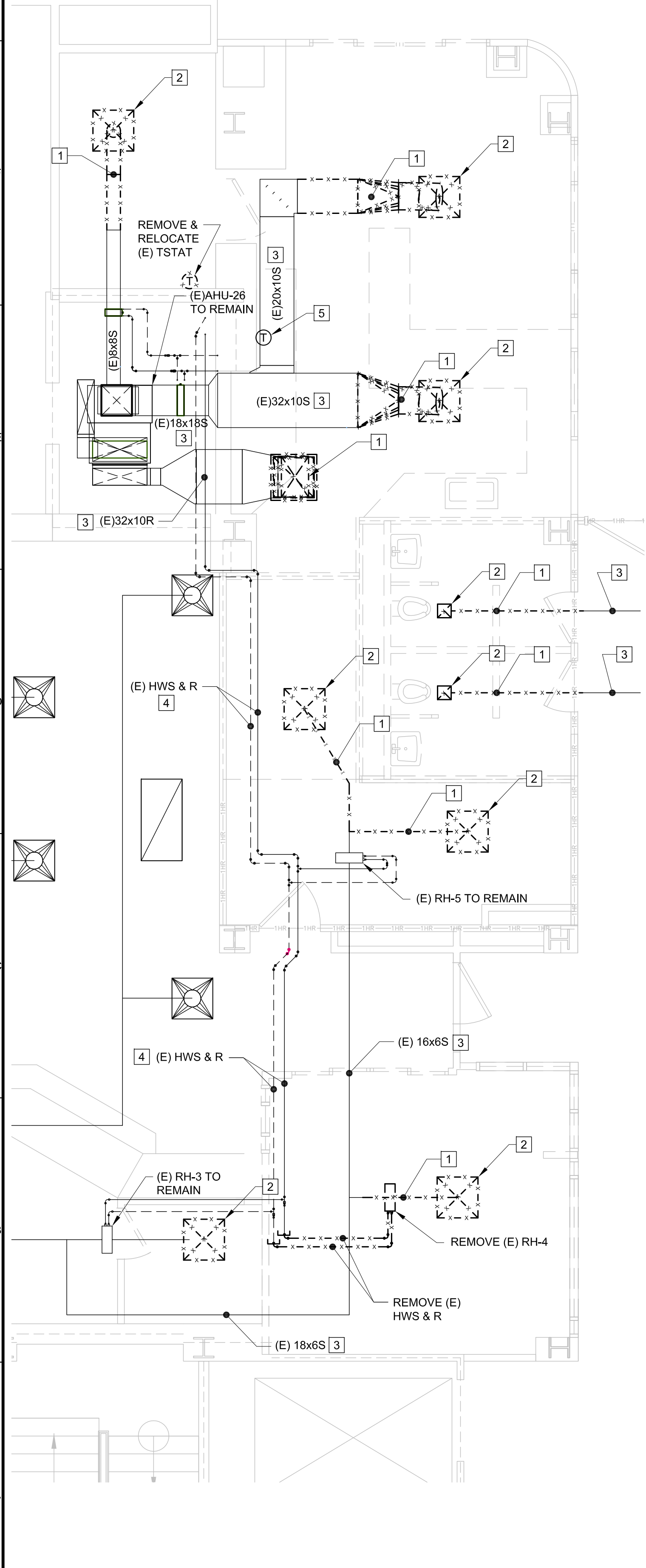
DESIGN GROUP COLLABORATIVE
 ARCHITECTURE DESIGN + PLANNING
 22 FREE STREET
 PORTLAND, MAINE 04101
 (207) 699-3300

MAINE MEDICAL CENTER
 GIFT SHOP RENOVATIONS
 PORTLAND, MAINE

DOOR AND FINISH SCHEDULES

SHEET TITLE:	DATE:	7/19/11	GRAPHIC SCALE:	0"
SCALE:	AS NOTED			
PROJECT NO.:	2010-01	SHEET No.:		
DRAWN BY:	CFG	AE 601		
A/E OF RECORD:	CFG			

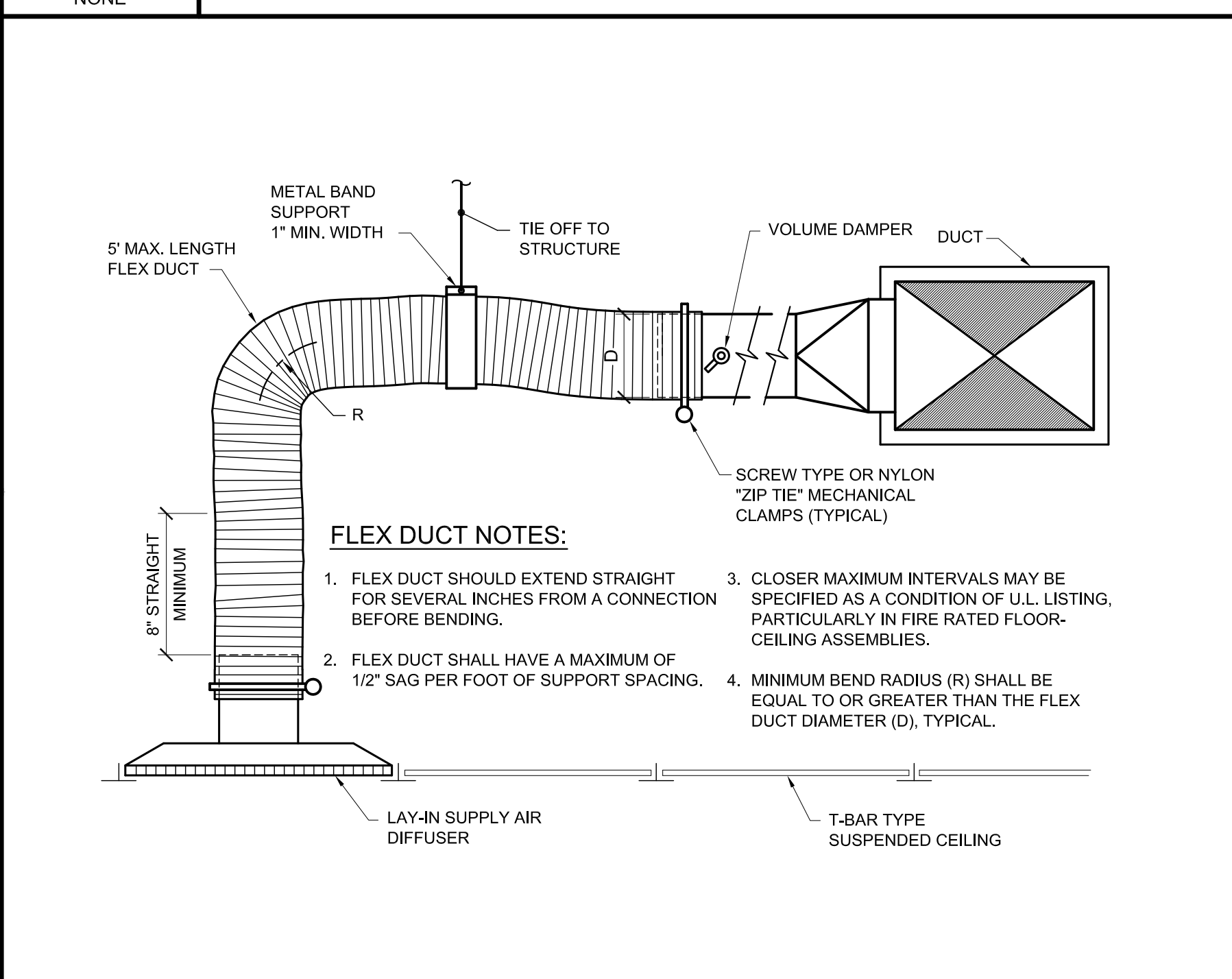
- DEMOLITION KEY NOTES:**
- 1 REMOVE EXISTING DUCTWORK COMPLETE.
 - 2 REMOVE EXISTING DIFFUSER/GRILLE COMPLETE.
 - 3 EXISTING DUCTWORK TO REMAIN.
 - 4 EXISTING HWS & R PIPING TO REMAIN.
 - 5 EXISTING TSTAT TO REMAIN.



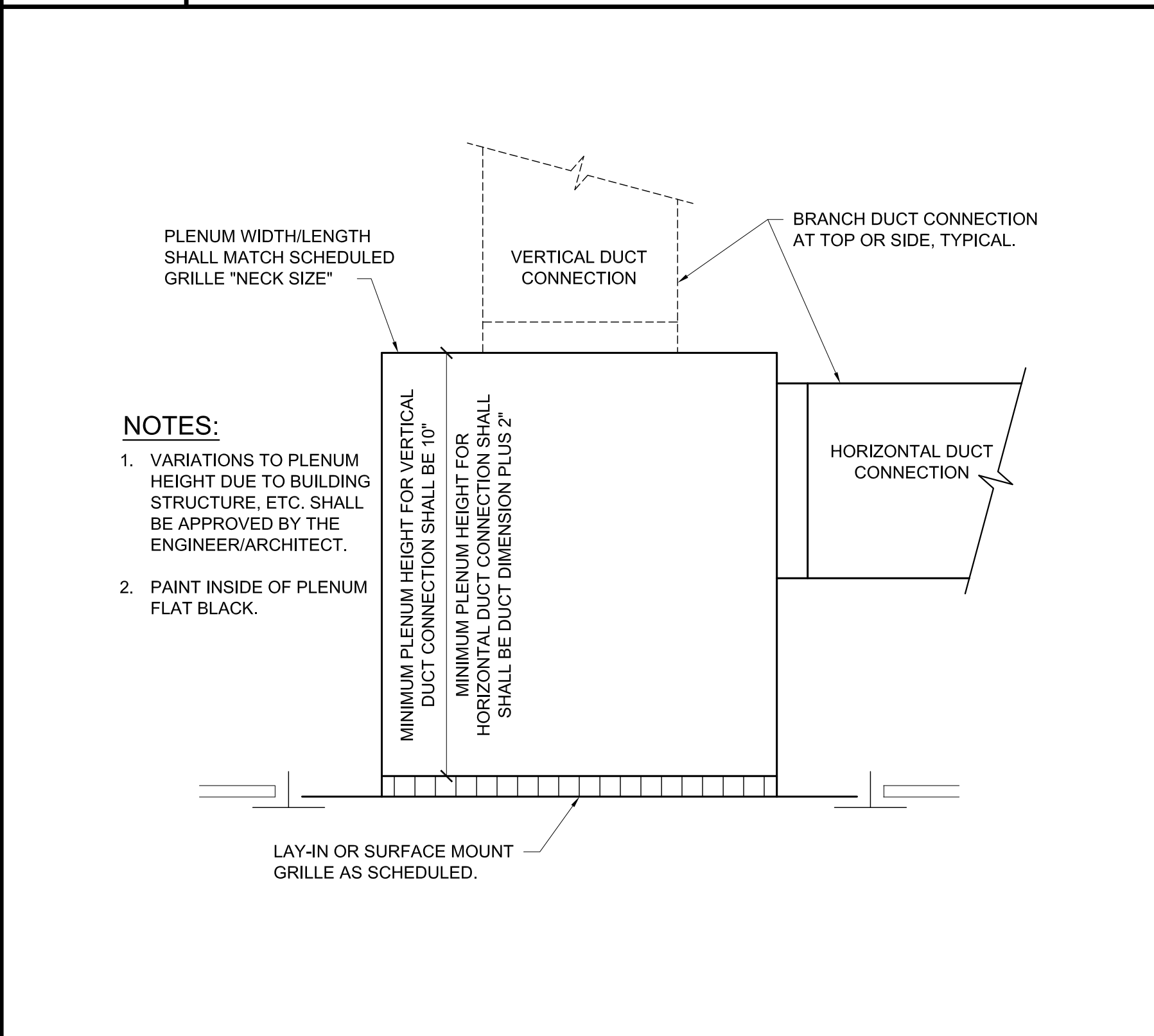
REGISTERS - GRILLES - DIFFUSERS (RGD) SCHEDULE

TAG	PRICE MODEL	TYPE	NECK SIZE	FACE SIZE	CFM RANGE	MAX TOTAL P.D. (IN.W.C.)	MAX NC LEVEL	BORDER TYPE	BLOW	NOTES
S-1	SCD	SQ. CEILING SUPPLY DIFFUSER	6" DIA	24" X 24"	0-150	0.07"	16	LAY-IN	4-WAY	
S-2	SCD	SQ. CEILING SUPPLY DIFFUSER	8" DIA	24" X 24"	151-275	0.07"	19	LAY-IN	4-WAY	
S-3	SCD	SQ. CEILING SUPPLY DIFFUSER	10" DIA	24" X 24"	276-450	0.07"	22	LAY-IN	4-WAY	
S-4	SCD	SQ. CEILING SUPPLY DIFFUSER	12" DIA	24" X 24"	451-630	0.07"	24	LAY-IN	4-WAY	
E-1	S30	STEEL RETURN GRILLE, 3/4" SPACING, 35 DEG VANES	8" X 8"	8" X 8"	0-170	0.05"	23	SURFACE MT.		
R-1	S102	STEEL RETURN GRILLE, 3/4" SPACING, 0 DEG VANES	22" X 22"	22" X 22"	851-2100	0.05"	30	LAY-IN		

F7 SCHEDULES ~ MECHANICAL



C7 DETAIL ~ SUPPLY AIR BRANCH CONNECTION



SPECIFICATIONS AND NOTES

- GENERAL**
1. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE PRE-EXISTING CONDITIONS AND ALL WORK NECESSARY PRIOR TO BIDDING. VERIFY MEASUREMENTS AND EXISTING CONDITIONS IN THE FIELD. GENERAL SCHEMATIC LAYOUT IS INDICATED, OFFSETS, OBSTRUCTIONS, AND EXISTING CONFIGURATIONS AND CONSTRAINTS MUST BE FIELD VERIFIED. PRIOR ARRANGEMENTS SHALL BE MADE FOR SITE VISITS.
 2. PERFORM WORK IN ACCORDANCE WITH LOCAL BUILDING CODES AND APPLICABLE AMENDMENTS, ALL LOCAL CODES, REGULATIONS, AND ORDINANCES.
 3. THE CONTRACTOR SHALL HOLD A LICENSE TO PERFORM THE WORK AS ISSUED BY THE LOCAL JURISDICTION. APPLY FOR AND OBTAIN ALL REQUIRED PERMITS AND INSPECTIONS, PAY FEES AND CHARGES INCLUDING SERVICE CHARGES.
 4. PERFORM WORK IN ACCORDANCE WITH BUILDING OWNER REQUIREMENTS.
 5. COORDINATE WORK WITH OTHER TRADES.
 6. INSTALL WORK SO THAT ALL ITEMS (BOTH EXISTING AND NEW) ARE OPERABLE AND SERVICEABLE.
 7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO KEEP CLEAN EQUIPMENT AND EXISTING CONDITIONS AFFECTED BY THE WORK FOR THE DURATION OF THE PROJECT. EACH TRADE SHALL KEEP THE PREMISES FREE FROM AN ACCUMULATION OF WASTE MATERIAL OR RUBBISH CAUSED BY HIS OPERATIONS. THE FACILITIES REQUIRE AN ENVIRONMENT OF EXTREME CLEANLINESS, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADHERE TO THE STRICT REGULATIONS REGARDING PROCEDURES ON THE EXISTING PREMISES.
 8. REMOVED/ABANDONED ITEMS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER.
 9. INSTALL, TEST, AND ADJUST COMPONENTS IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS, ALL LOCAL CODES AND STANDARDS, AND OWNER REQUIREMENTS.
 10. THE INTENTION OF THESE CONTRACT DOCUMENTS IS TO CALL FOR FINISHED WORK, FULLY TESTED AND READY FOR OPERATION. ANY COMPONENTS OR LABOR NOT MENTIONED IN THE CONTRACT DOCUMENTS BUT REQUIRED FOR FUNCTIONING SYSTEMS SHALL BE PROVIDED. SHOULD THERE APPEAR TO BE ANY DISCREPANCIES OR QUESTIONS OF INTENT, THE CONTRACTOR SHALL REFER THE MATTER TO THE ENGINEER FOR DECISION BEFORE START OF ANY RELATED WORK.
 11. CONCEAL ALL CONTRACT WORK. PROVIDE REQUIRED SUPPORTS, ANGLES, HANGERS, RODS, BASES, BRACES, AND OTHER ITEMS TO PROPERLY SUPPORT CONTRACT WORK. SUPPORTS SHALL MEET THE APPROVAL OF THE OWNER'S REPRESENTATIVE.
 12. SUBMIT SUBMITTALS/SHOP DRAWINGS ON ITEMS OF EQUIPMENT AND MATERIALS TO BE FURNISHED AND INSTALLED.
 13. BEFORE FINAL ACCEPTANCE OF THE WORK, FURNISH NECESSARY SKILLED LABOR TO OPERATE ALL SYSTEMS BY SEASONS. INSTRUCT DESIGNATED PERSON ON PROPER OPERATION, AND CARE OF SYSTEMS/EQUIPMENT.
 14. PREPARE THREE (3) OPERATION AND MAINTENANCE MANUALS. INCLUDE IN EACH O&M MANUAL, A COPY OF EACH APPROVED SHOP DRAWING, WIRING DIAGRAMS, SPARE PARTS LISTS, AS-BUILT DRAWINGS AND MANUFACTURER'S INSTRUCTIONS.
 15. CONTRACTOR SHALL WARRANT WORKMANSHIP AND MATERIALS FOR A PERIOD OF NOT LESS THAN ONE-YEAR FROM THE DATE OF FINAL-COMPLETION.
- EXISTING SYSTEMS**
1. THE BUILDING WILL BE IN USE DURING CONSTRUCTION OPERATIONS. MAINTAIN EXISTING SYSTEMS IN OPERATION AT ALL TIMES. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES AND WITH OWNER'S REPRESENTATIVE. PROVIDE, AS PART OF CONTRACT, TEMPORARY MECHANICAL AND ELECTRICAL CONNECTIONS AND RELOCATIONS AS REQUIRED TO ACCOMPLISH THE ABOVE.
 2. OBTAIN APPROVAL IN WRITING AS TO DATE, TIME, AND LOCATION FOR SHUTDOWN OF EXISTING MECHANICAL/ELECTRICAL FACILITIES OR SERVICES. WORK SHALL BE PERFORMED DURING OFF-HOURS.
- DUCTWORK**
1. DUCTWORK SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS.
 2. GALVANIZED STEEL DUCTWORK: ASTM A653 GALVANIZED STEEL SHEET, LOCK-FORMING QUALITY, G60 ZINC COATING. SEAL DUCT JOINTS TO SMACNA CLASS A; 3" PRESSURE CLASS. SEALANTS SHALL BE WATER-BASED, WITH NO COLOR.
 3. INSULATED FLEXIBLE DUCTS (MAXIMUM LENGTH: 5 FEET) SHALL BE FLEXMASTER TYPE-4 OR APP'D EQUAL, U.L. 181 CLASS-1, R4.2; RATED TO +12" W.C. MAXIMUM LENGTH: 5 FEET.
 4. INSULATE SUPPLY DUCTWORK WITH 1-1/2" THICK KNAUF FIBER GLASS DUCT WRAP, OR APPROVED EQUIV. CONFORMING TO ASTM C 553, TYPE I, II OR III. FSK JACKET CONFORMING TO ASTM C 1136, TYPE II. SECURED IN PLACE USING OUTWARD CLINCH STAPLES AND APPROPRIATE PRESSURE SENSITIVE FOIL TAPE OR GLASS FABRIC AND VAPOR BARRIER MASTIC.
- PIPING**
1. PIPING SHALL BE PRESSURE TESTED PER CODE. SUPPORT PIPING IN ACCORDANCE WITH MSS STANDARD PRACTICE SP-89. PROVIDE BAND HANGERS, WITH INSULATION SHIELDS. MAXIMUM HANGER SPACING: 6 FEET.
 2. REFRIGERANT PIPING: COPPER TUBE: ASTM B 280-TYPE ACR. REFRIGERANT PIPING HIGH TEMPERATURE BRAZED JOINTS; SOLDERED JOINTS NOT PERMITTED. INSULATE REFRIGERANT SUCTION LINE WITH 1/2" ARMAFLEX. INSULATION SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DEVELOPED RATING OF 50 OR LESS.
 3. INSTALL AND CHARGE WITH REFRIGERANT PER COOLER MFR'S RECOMMENDATIONS. INSTALL PIPING AS SHORT AND DIRECT AS POSSIBLE, WITH A MINIMUM NUMBER OF JOINTS, ELBOWS, AND FITTINGS.
 4. HEATING PIPING: ASTM B 88, TYPE L, HARD-DRAWN COPPER. INSULATE WITH FIBERGLASS INSULATION WITH ALL SERVICE JACKET, 25/50. PROVIDE PROTO FITTING COVERS. PROVIDE TACO ACCU-FLO OR EQUAL BALANCING VALVES.
 5. DUCT HEATING COIL: MOQUJAY MODEL 58 OR EQUAL, 1/2" NPT WROUGHT COPPER CONNECTIONS; TESTED WITH 315 POUNDS AIR UNDER WATER AND SHALL BE SUITABLE FOR USE UP TO 250 PSIG AND 300°F.
 6. PLUMBING PIPING SHALL BE PER MAINE PLUMBING CODE.
 7. ARRANGE PIPING TO ALLOW INSPECTION AND SERVICE.
 8. FIELD TEST AND INSPECT PIPING ACCORDING TO CODE.
- AUTOMATIC TEMPERATURE CONTROLS**
1. EXTEND THE EXISTING HONEYWELL CONTROL SYSTEM TO SERVE THE RENOVATED AREA. NEW CONTROLS SHALL BE DDC.
 2. ZONES SHALL BE ALARMED FOR HIGH AND LOW TEMPERATURE.
 3. ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO TRAIN OWNER'S MAINTENANCE PERSONNEL TO ADJUST, OPERATE, AND MAINTAIN HVAC INSTRUMENTATION AND CONTROLS.
- TESTING, ADJUSTING, AND BALANCING (T-A-B)**
1. TEST, ADJUST, AND BALANCE EQUIPMENT AND DISTRIBUTION SYSTEMS IN ACCORDANCE WITH NEBB OR ASAC PROCEDURAL STANDARDS. TESTS SHALL BE PERFORMED BY AN INDEPENDENT T-A-B AGENCY.
 2. PRE-BALANCE AIRFLOW TO EACH ZONE TO ASSURE PROPER AIR TERMINAL UNIT SIZES. CONFIRM MAXIMUM CFM CAPABILITY OF EACH UNIT, COMPARE TO THE SCHEDULED VALUES.
 3. T-A-B VAV BOX MINIMUM AND MAXIMUM AIRFLOW SETTINGS.

A1 GROUND FLOOR GIFT SHOP MECHANICAL DEMOLITION PLAN
1/4"=1'-0"

A3 GROUND FLOOR GIFT SHOP MECHANICAL PLAN
1/4"=1'-0"

A6 DETAIL ~ RETURN / EXHAUST GRILLE BOOT
NONE

A9 SPECIFICATIONS
NONE

M-100

MECHANICAL DEMOLITION PLAN, MECH PLAN, SCHEDULES DETAILS AND NOTES

MAINE MEDICAL CENTER GIFT SHOP 2 PROJECT
PORTLAND, MAINE

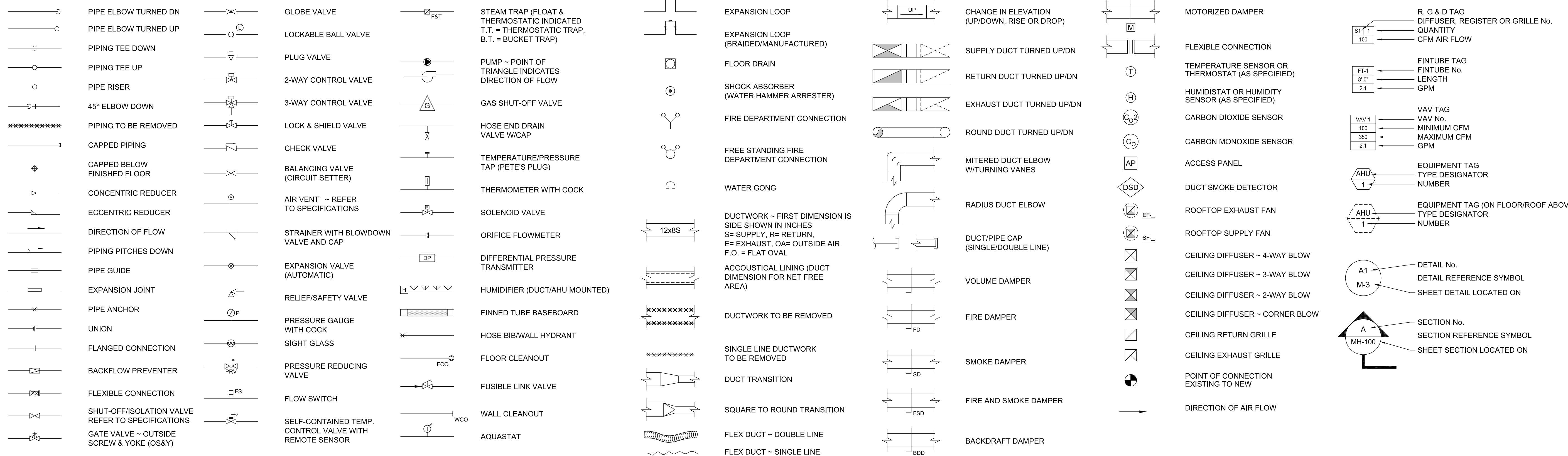
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Date: JULY 19, 2011
Drawn By: SCL
Checked By: IAM
Project Mgr: IAM
Project No: 11042
Cadd File: 11042_MJ.DWG
Graphic Scale: 1"=0'
Scale: 0

REVISIONS	DATE	BY	NUMBER	DESCRIPTION

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D1 SYMBOLS LEGEND

NONE

AW	ACID WASTE	LPR	LOW-PRESSURE CONDENSATE
ATV	AIR RELIEF	LPS	LOW-PRESSURE STEAM
BBD	BOILER BLOWDOWN	MA	MEDICAL AIR
BF	BOILER FEED	MPS	MEDIUM-PRESSURE CONDENSATE
C	CONDENSATE (HVAC DRAIN PAN)	MPS	MEDIUM-PRESSURE STEAM
C	CONDENSATE (HVAC DRAIN PAN - BELOW FLOOR)	MU	MAKEUP WATER
CA	COMPRESSED AIR	N2	NITROGEN
CHWR	CHILLED WATER RETURN	NG	NATURAL GAS
CHWS	CHILLED WATER SUPPLY	NO	NITROUS OXIDE
CWS	CONDENSER WATER SUPPLY	NPW	NON-POTABLE WATER
CWR	CONDENSER WATER RETURN	OX	OXYGEN
DCW	DOMESTIC COLD WATER	PC	PUMPED CONDENSATE
DHW	DOMESTIC HOT WATER	PCWR	PROCESSED COLD WATER RETURN
DWR	DOMESTIC WATER RECIRC.	PCWS	PROCESSED COLD WATER SUPPLY
D	DRAIN	RD	REFRIGERANT DISCHARGE
FM	PUMP FORCE MAIN	RL	REFRIGERANT LIQUID
FOF	FUEL OIL FILL	RS	REFRIGERANT SUCTION
FOR	FUEL OIL RETURN	RW	RAIN WATER ABOVE FLOOR
FOS	FUEL OIL SUPPLY	RWB	RAIN WATER BELOW GRADE
FOV	FUEL OIL TANK VENT	SSW	SANITARY SOIL WASTE (ABOVE FLOOR)
FW	FEEDWATER	SSWB	SANITARY SOIL WASTE (BELOW FLOOR)
GR	GLYCOL RETURN	SSSV	SANITARY SOIL VENT (ABOVE FLOOR)
GS	GLYCOL SUPPLY	SSWB	SANITARY SOIL VENT (BELOW FLOOR)
H	HUMIDIFICATION LINE	SV	SANITARY WASTE & VENT COMBINATION
H2	HYDROGEN GAS	SP	SPRINKLER MAIN PIPING
HPWR	HEAT PUMP WATER RETURN	SWR	SOLAR WATER RETURN
HPWS	HEAT PUMP WATER SUPPLY	SWS	SOLAR WATER SUPPLY
HPC	HIGH-PRESSURE CONDENSATE	TP	TRAP PRIMER PIPING ABOVE GRADE
HPS	HIGH-PRESSURE STEAM	TPB	TRAP PRIMER PIPING BELOW GRADE
HTWR	HIGH-TEMP. HOT WATER RETURN	TWR	TEMPERED RETURN WATER
HWR	HOT WATER RETURN	TWS	TEMPERED SUPPLY WATER
HWS	HOT WATER SUPPLY	VAC	VACUUM (AIR)
IND	INDUSTRIAL WASTE	VC	VACUUM CLEANING (HOUSE)
IW	INDIRECT WASTE	VPD	VACUUM PUMP DISCHARGE
LN	LIQUID NITROGEN		
LOX	LIQUID OXYGEN		
LPC	LOW-PRESSURE CONDENSATE		
LP	LIQUID PETROLEUM GAS		

AAV	AUTOMATIC AIR VENT	DN	DOWN	LP	LIQUID PETROLEUM GAS	TP	TRAP PRIMER
AC	ABOVE CEILING	DS	DOWNPOUT	LPR	LOW PRESSURE STEAM RETURN	TSP	TOTAL STATIC PRESSURE
ACC	AIR COOLED CONDENSER	DT	DROP AND TRANSITION	LPS	LOW PRESSURE STEAM SUPPLY	TTS	TIGHT TO STEEL
ACU	AIR CONDITIONING UNIT	DV	DRAIN VALVE	MAX	MAXIMUM	TV	TURNING VANE
ADA	AMERICANS WITH DISABILITIES ACT	DWG	DRAWING	MBH	1000 BTU/HR.	TW	TEMPERED WATER
AD	ACCESS DOOR	EA	EXHAUST AIR	MFR	MANUFACTURER	TYP	TYPICAL
AE	ACID EXHAUST	EF	EXHAUST FAN	MIN	MINIMUM	UH	UNIT HEATER
AW	ACID WASTE	EG	EXHAUST GRILLE	MOD	MOTOR OPERATED DAMPER	UIC	UP IN CHASE
AFF, A.F.F.	ABOVE FINISHED FLOOR	ELEV	ELEVATION	MPG	MEDIUM PRESSURE GAS	UIW	UP IN WALL
AHU	AIR HANDLING UNIT	ELONG	ELONGATE	MPV	MULTI-PURPOSE VALVE	UV	UNIT VENTILATOR
AP	ACCESS PANEL	ENC	ENCLOSURE	MTD	MOUNTED	V	VENT
APPROX	APPROXIMATE; APPROXIMATELY	ER	EXHAUST REGISTER	MTG	MOUNTING	VAC	VACUUM
APMR	AS PER MFR'S RECOMMENDATIONS	ESP	EXTERNAL STATIC PRESSURE	MUA	MAKE UP AIR	VB	VACUUM BREAKER
ATC	AUTOMATIC TEMPERATURE CONTROL	ET	EXPANSION TANK	N.C.	NORMALLY CLOSED	VCOFF	VALVE & CAP FOR FUTURE
AV	AIR VENT	(E)	EXISTING	N.O.	NORMALLY OPEN	VD	VOLUME DAMPER - MANUAL
BC	BALANCING COCK	F & T	FLOAT AND THERMOSTATIC	NIC	NOT IN CONTRACT	VD	VOLUME DAMPER - MANUAL
BDD	BACKDRAFT DAMPER	FBO	FURNISHED BY OTHERS	NPT	NATIONAL PIPE THREAD	VLV	VALVE
BG	BLAST GATE	FBP	FACE AND BYPASS	NTS	NOT TO SCALE	VS	VENT STACK
BF	BARRIER FREE	FC	FLEXIBLE CONNECTION	OA	OUTSIDE AIR	VTR	VENT THROUGH ROOF
BFP	BACKFLOW PREVENTER	FCO	FLOOR CLEANOUT	OB	OPPOSED BLADE DAMPER	W	WASTE
BHP	BRAKE HORSEPOWER	FD-#	FLOOR DRAIN TAG	OD	OUTSIDE DIAMETER	W	WITH
BLDG	BUILDING	FD	FIRE DAMPER	OED	OPEN ENDED DUCT	WB	WET BULB TEMPERATURE, °F
BOD	BOTTOM OF DUCT	FIN	FINISH	PD	PUMPED DISCHARGE	WCO	WALL CLEANOUT
B.T.U.	BRITISH THERMAL UNIT	FL	FLOOR	PRS	PRESSURE REDUCING STATION	WH	WATER HEATER
C, CONV.	CONVECTOR	FTG	FOOTING	PRV	PRESSURE REDUCING VALVE	WHYD	WALL HYDRANT
CCW	COUNTER CLOCKWISE	FTR	FINNED TUBE RADIATION	RA	RETURN AIR	NTS	NOT TO SCALE
CFF	CAPPED FOR FUTURE	FS	FLOW SWITCH	RD	ROOF DRAIN	Ø	DIAMETER
CFM	CUBIC FEET PER MINUTE	FM	FORCE MAIN	REC	RECOMMENDATION	@	AT
CLG	CEILING	GC	GENERAL CONTRACTOR	REG	REGULAR	&	AND
CO	CLEANOUT	GPM	GALLONS PER MINUTE	RF	RETURN FAN	%	PERCENT
CM	CONSTRUCTION MANAGER	GV	GRAVITY VENTILATOR	RG	RETURN GRILLE		
CNTR	COUNTER; COUNTERTOP	H	HUMIDIFIER	RHC	REHEAT COIL		
CONN	CONNECT; CONNECTION	HB	HOSE BIB	RM	ROOM		
CONT	CONTINUE; CONTINUATION	HC; HDC	HANDICAP ACCESS	RPZ	REDUCED PRESSURE BFP		
COORD	COORDINATE	HGT, HT.	HEIGHT	RR	RETURN REGISTER		
CORR	CORRIDOR	HP	HEAT PUMP	RV	RELIEF VALVE		
CR	CHEMICAL RESISTING	HRU	HEAT RECOVERY UNIT	RW	RAIN WATER		
CT	COOLING TOWER	HTR	HEATER	S	SUPPLY AIR		
CTE	CONNECT TO EXISTING	H & V	HEATING AND VENTILATION	SA,*	SHOCK ABSORBER OF PDI SIZE (") AS INDICATED		
CTR	CENTER	HVAC	HEATING, VENTILATING, & AIR COND.	SCV	SELF CONTAINED VALVE		
CTRLN	CENTERLINE	HW	HOT WATER	SD	SMOKE DAMPER		
CU	COPPER	HWR	HOT WATER RETURN	SF	SUPPLY FAN		
CUH	CABINET UNIT HEATER	HWS	HOT WATER SUPPLY	SG	SUPPLY GRILLE		
C.V.	CONTROL VALVE	HX	HEAT EXCHANGER	SGL	SINGLE		
CW	COLD WATER/CLOCKWISE	ID	INSIDE DIAMETER	SHT	SHEET		
DB	DRY BULB TEMPERATURE, °F	IN WG	INCHES WATER GAUGE	SPLR	SPRINKLER		
DC	DOUBLE CONTAINED	INCL	INCLUDING	SQ FT; S. F.	SQUARE FEET		
DDC	DIRECT DIGITAL CONTROL	INV EL	INVERT ELEVATION	SR	SUPPLY REGISTER		
DET	DETAIL	IPS	IRON PIPE SIZE	S/O	SHUT OFF		
DIA	DIAMETER	KE-#	KITCHEN EQUIPMENT NUMBER	S.S.	STAINLESS STEEL		
DIC	DOWN IN CHASE	LD	LINEAR DIFFUSER	TG	TRANSFER GRILLE		
DIW	DOWN IN WALL	LE-#	SCIENCE LAB EQUIPMENT NUMBER	TOD	TOP OF DUCT		

A1 PIPING LINETYPE LEGEND

NONE

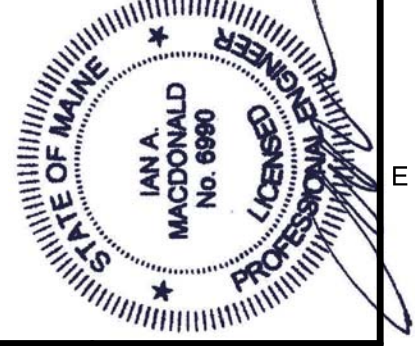
A4 ABBREVIATIONS

NONE

NOTE
ALL GENERAL NOTES, SYMBOL LEGENDS, AND DETAILS ARE TO BE CONSIDERED AS APPLICABLE TO ALL PLUMBING AND HVAC DRAWINGS FOR THIS PROJECT. SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND DO NOT INDICATE THEIR INCORPORATION INTO THE DESIGN.

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NO.	DATE	BY	DESCRIPTION

Date:	JULY 19, 2011
Drawn By:	SCL
Checked By:	IAM
Project Mgr:	IAM
Project No.:	11042
Scale:	1" = 1'

PLUMBING AND HVAC LEGEND AND ABBREVIATIONS

MAINE MEDICAL CENTER
GIFT SHOP 2 PROJECT
PORTLAND, MAINE

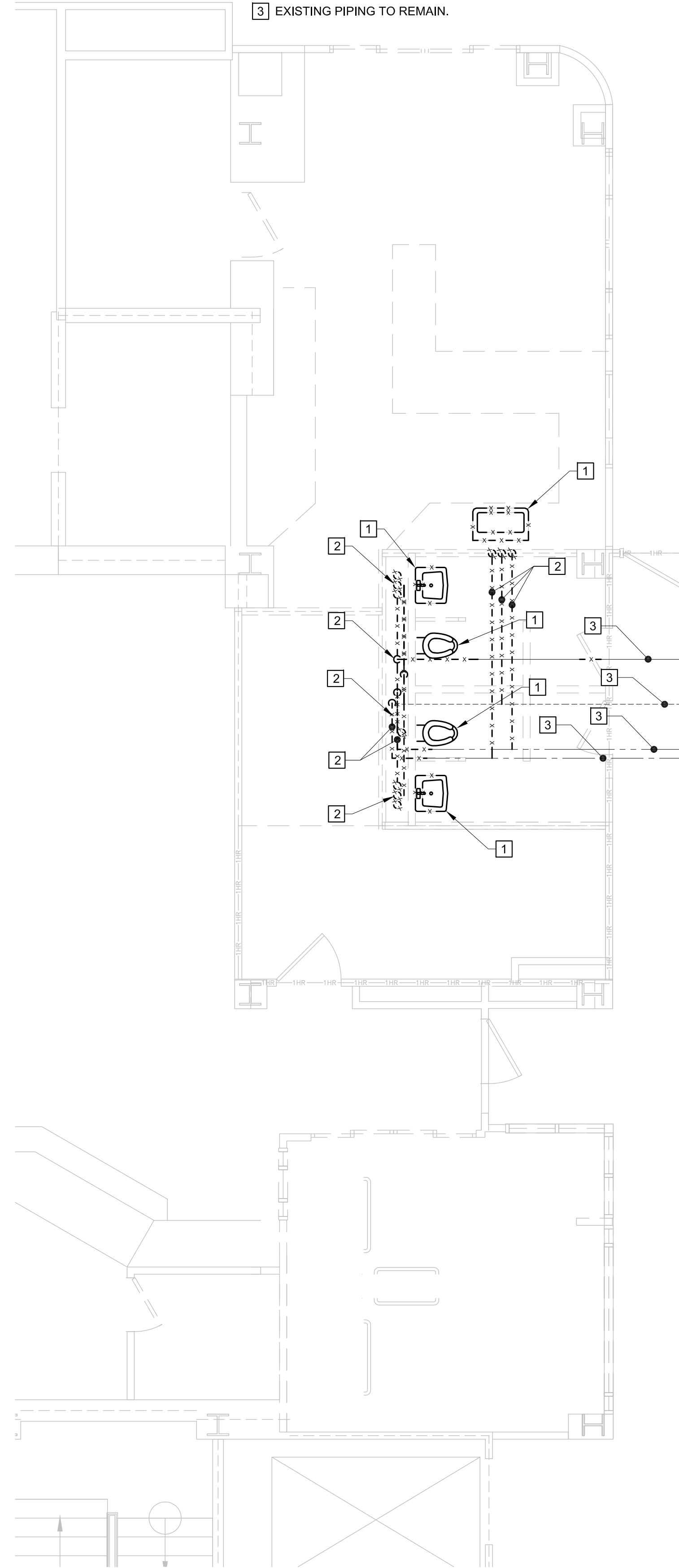
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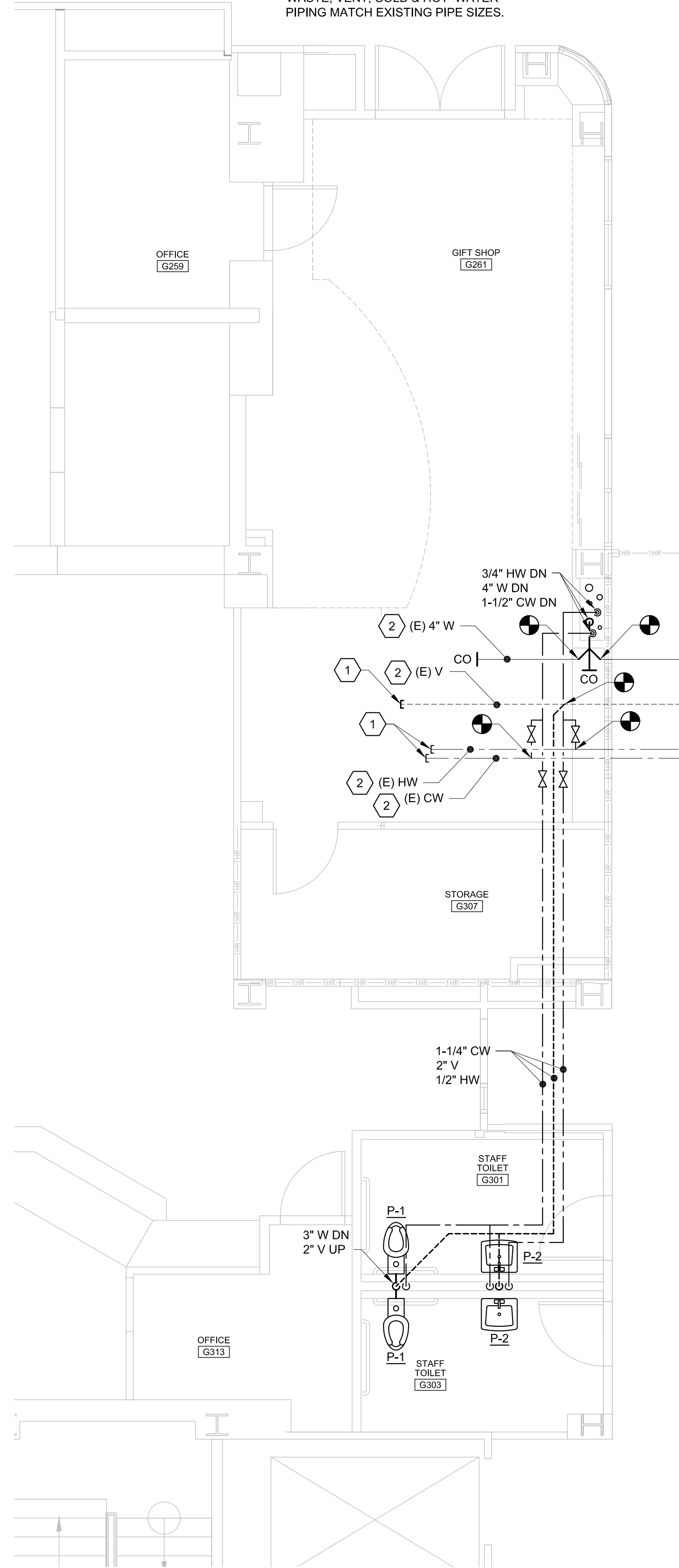
DEMOLITION KEY NOTES:

- 1 REMOVE EXISTING FIXTURE, REMOVE EXISTING PIPING AND CAP EXISTING PIPING AS REQUIRED.
- 2 REMOVE EXISTING PIPING AS REQUIRED.
- 3 EXISTING PIPING TO REMAIN.



- KEY NOTES:**
- 1 CAP EXISTING PIPING.
 - 2 EXISTING PIPING TO REMAIN.

NOTE:
WHEN CONNECTING TO EXISTING WASTE, VENT, COLD & HOT WATER PIPING MATCH EXISTING PIPE SIZES.



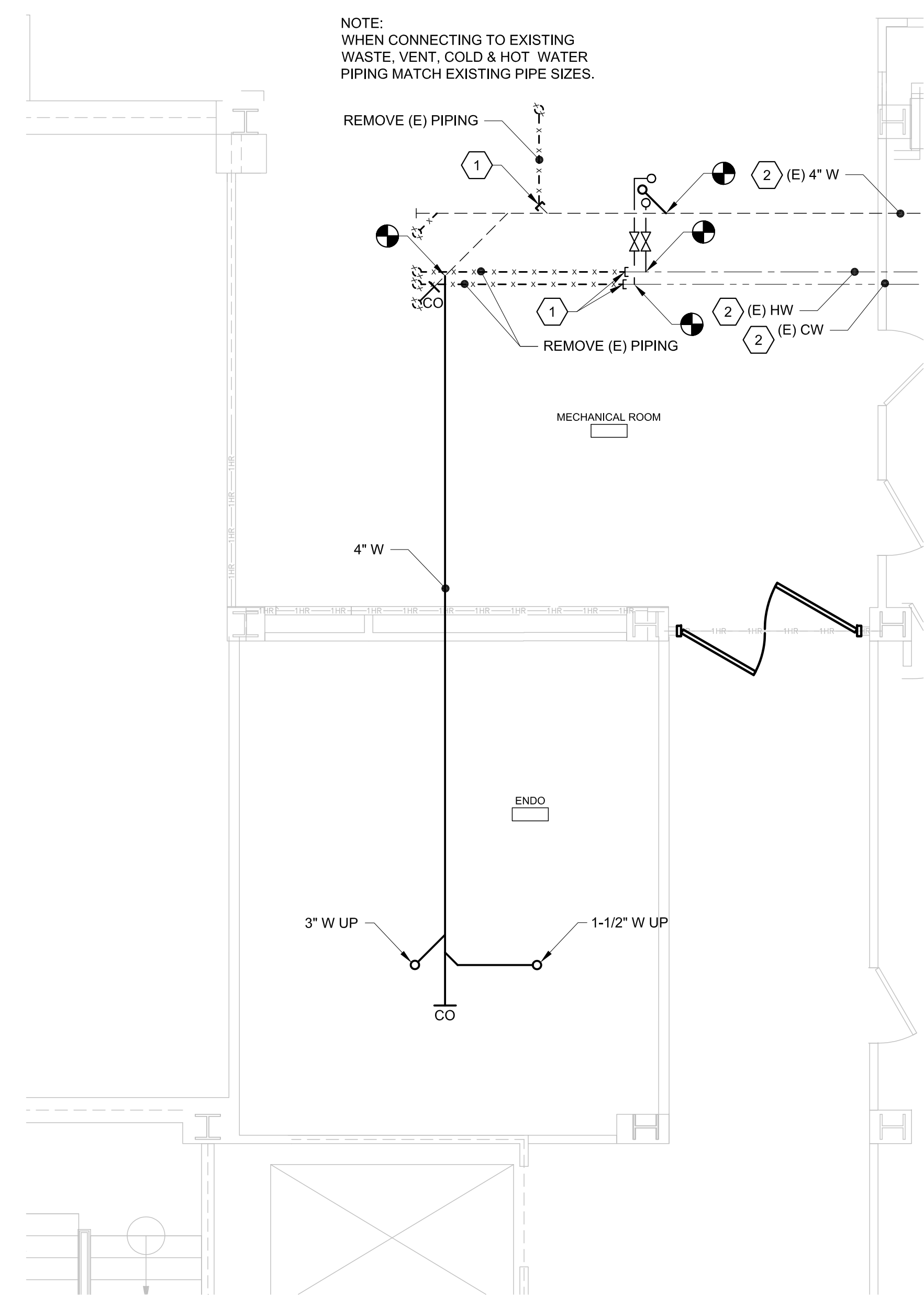
PLUMBING FIXTURE SCHEDULE							
TAG	DESCRIPTION	BRANCH SIZES				FITTURE MANUFACTURE - MODEL NUMBER	FAUCET/FLUSH VALVE MANUFACTURE - MODEL NUMBER
		CW	HW	VENT	WASTE		
P-1	WATER CLOSET-FLUSH VALVE, FLOOR MOUNT BACK OUTLET	1"	---	1-1/2"	3"	American Standard Priolo 3695.128	Skan Royal 111-YO
P-2	LAVATORY, WALL MOUNT	1/2"	1/2"	1-1/2"	2"	American Standard Lucerne 0356	Delta Model 22C

G7 SCHEDULES ~ PLUMBING

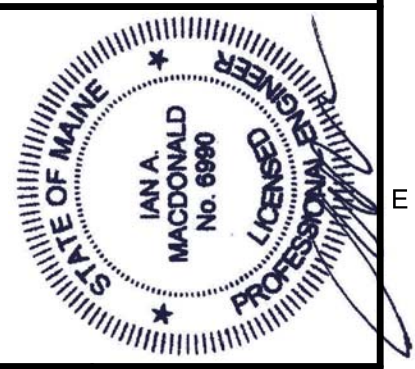
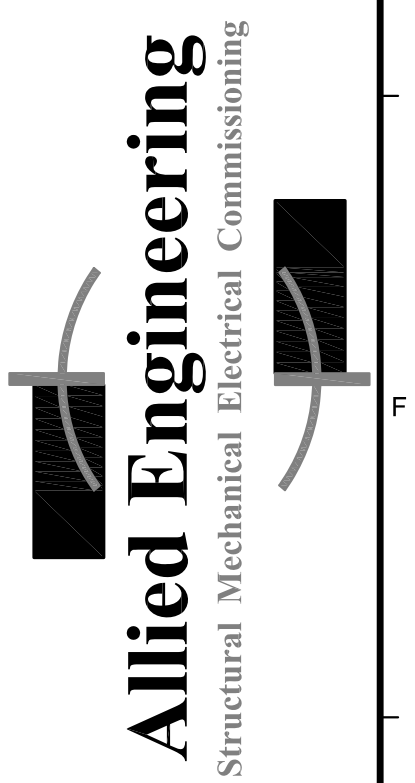
NONE

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REVISIONS			
NUMBER	DATE	BY	DESCRIPTION

Date: JULY 19, 2011
Drawn By: SCL
Checked By: IAM
Project Mgr: IAM
Project No: 11042
Cadd File: 11042_P.DWG
Graphic Scale: 0 1"

PLUMBING DEMOLITION PLAN, PLUMBING
MAINE MEDICAL CENTER
GIFT SHOP 2 PROJECT
PORTLAND, MAINE
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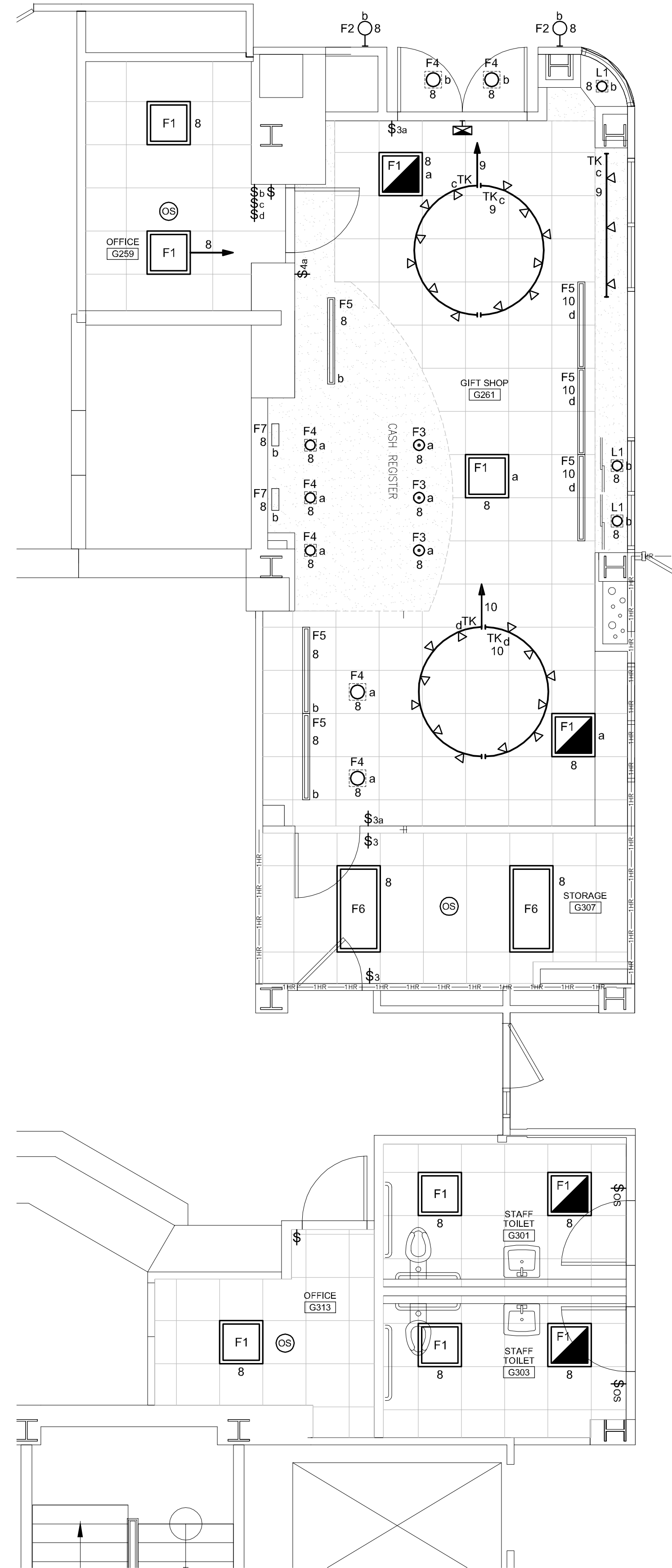
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LUMINAIRE SCHEDULE								
TYPE	DESCRIPTION	MFR	CATALOG SERIES NUMBERS - SEE NOTE 1	MOUNTING SEE NOTE 5	VOLTS	LAMP		KEY NOTES
						QTY	TYPE	
F1	2x2 VOLUMETRIC	LITHONIA	2RT5-14T5-GE8115	RECESSED	120	2	F14 T5 3000K	2
F2	WALL SCONCE	SCOTT	S3550-2C26E-BN	WALL 5' 0" AFF	120	2	CF26W 3000K	
F3	DECORATIVE PENDANT	TECH LIGHTING	700-FJ-MML-W-S-LED	PENDANT 6' 0" AFF	12	1	5.8W LED	3
F4	RECESSED DOWNLIGHT	KIRLIN	FRR-06013-	RECESSED	120	1	CF32W TRT 3000K	
F5	LINEAR WALL WASHER	FOCAL POINT	FAVA-CL-1C-	CEILING	120	1	F54 T5HO 3000K	6
F6	2x4 TROFFER	LITHONIA	ZSP5 G A12125 GEB95	RECESSED	120	2	F28 T5 3000K	2
F7	UNDER CABINET	DAY-BRITE	5-UC-1-14-D	UNDER CABINET	120	1	F14 T5 3000K	5
L1	LED DISPLAY CASE DOWNLIGHT	BRUCK	135651-1MC/FLC	RECESSED	120	1	3W LED	3
TK	FLEXIBLE TRACK	TECH LIGHTING	MONORAIL TRACK SYSTEM/ 700-MO-HEL-15-12-S-LED HEAD WITH 700-FIRA-S S OPTIC	PENDANT 7' 0" AFF	12	1	3000K LED	3,4

NOTES:

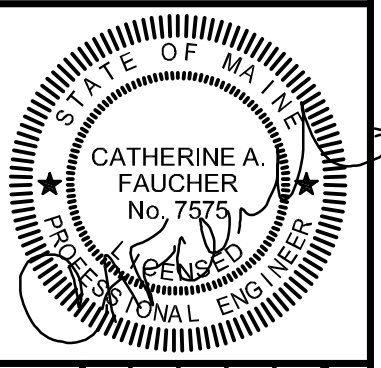
- NOTE THAT THESE NUMBERS ARE NOT COMPLETE CATALOG #S. PROVIDE ALL REQUIREMENTS ON SCHEDULE, NOTES, SPECS, AND DRAWINGS COM
- PROVIDE PROGRAMMED START BALLAST FOR ROOMS WITH OCCUPANCY SENSORS.
- PROVIDE WITH COMPATIBLE DRIVERS, TRANSFORMERS, ETC. SIZED FOR TOTAL LOAD.
- PROVIDE LENGTH AND NUMBER OF HEADS SHOWN ON PLANS
- ALL MOUNTING HEIGHTS ARE TO BOTTOM OF FIXTURE.
- COLOR TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.



- BRANCH CIRCUIT WIRING NOT SHOWN. BRANCH CIRCUIT NUMBERS INDICATED REPRESENT INTENDED GROUPING, NOT ACTUAL CIRCUIT NUMBERS. CONNECT CIRCUITS TO AVAILABLE SPACES IN EXISTING PANELS.
- DISCONNECT, REMOVE, RELOCATE, AND RECONNECT ELECTRICAL CONDUIT, WIRING, DEVICES, BOXES, FIXTURES, EQUIPMENT, ETC. AS INDICATED AND AS REQUIRED TO FACILITATE THE WORK OF THIS PROJECT. THESE DRAWINGS ARE NOT INTENDED TO INDICATE ALL ITEMS THAT MAY NEED TO BE REMOVED OR RELOCATED.
- DO NOT SCALE THE DRAWINGS. REFER TO EXISTING CONDITIONS FOR EXACT DIMENSIONS.
- THE LOCATION OF EQUIPMENT, OUTLETS, ETC. AS GIVEN ON THE DRAWINGS, IS APPROXIMATE. IT SHALL BE UNDERSTOOD THAT THESE LOCATIONS ARE SUBJECT TO MODIFICATION AS MAY BE FOUND NECESSARY OR DESIRABLE AT THE TIME OF INSTALLATION IN ORDER TO MEET PROJECT REQUIREMENTS. SUCH CHANGES SHALL BE MADE WITHOUT EXTRA CHARGE.
- COORDINATE ALL WORK WITH OTHER DIVISIONS AND THE OWNER.
- VERIFY EXACT POWER REQUIREMENTS OF EQUIPMENT PRIOR TO ROUGH IN.
- WIRE AND CONNECT EQUIPMENT IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS.
- NO WIRING THAT BECOMES UNUSED AS PART OF THIS PROJECT SHALL BE ABANDONED IN PLACE.
- EXISTING CONDITIONS NOT SHOWN. REMOVE EXISTING ELECTRICAL AS REQUIRED TO CREATE INDICATED CONDITIONS.

F9 GENERAL NOTES

- F1 - LIGHT FIXTURE - RECESSED TROFFER - TYPICAL
- a - INDICATES LIGHT FIXTURE TYPE ON LUMINAIRE SCHEDULE
- 2 - LOWER CASE LETTER INDICATES SWITCHING - TYPICAL
- 2 - NUMBER INDICATES CIRCUITING - TYPICAL
- ▣ HATCHING INDICATES FIXTURE ON LIFE SAFETY BRANCH, PROVIDE LISTED GENERATOR TRANSFER DEVICE TO BYPASS SWITCHING
- RECESSED DOWNLIGHT
- WALL MOUNTED LIGHT FIXTURE - TYPICAL
- CEILING SURFACE LIGHT FIXTURE - TYPICAL
- PENDANT LIGHT FIXTURE - TYPICAL
- TRACK LIGHTING
- EXIT SIGN, CEILING MOUNTED, SHADING INDICATES FACE(S)
- ARROWHEAD INDICATES CHEVRON(S) REQUIRED
- NUMBER INDICATES CIRCUIT NUMBER
- EXIT SIGN, WALL MOUNTED, SHADING INDICATES FACE(S)
- MOUNT AT 7'-6" AFF OR OVER DOOR
- NUMBER INDICATES CIRCUIT NUMBER
- \$a LIGHT SWITCH - 20A, 125/277V
- LETTER INDICATES SWITCHING
- \$3 THREE-WAY LIGHT SWITCH
- \$3a MULTI-GANGED SWITCHES - GANG UNDER ONE PLATE - LETTER INDICATES SWITCHING
- \$OS OCCUPANCY SENSOR SWITCH, WALL MOUNTED
- \$OS2 2-BUTTON OCCUPANCY SENSOR SWITCH
- OS OCCUPANCY SENSOR SWITCH, CEILING MOUNTED
- PANELBOARD - SURFACE MOUNTED
- FUSED DISCONNECT SWITCH
- HOMERUN - (2)#12+(1)#12G UNO (EXCEPT COMPUTER AND LIGHTING CIRCUITS: (1)#12+(1)#10N+(1)#12G UNO)
- SINGLE-PHASE HOMERUN OR MULTIPLE HOMERUN UTILIZING THE SAME CONDUIT: (2)#12+(1)#12G UNO
- FLEXIBLE CONNECTION
- DUPLX RECEPTACLE, MOUNT 18" AFF - 20A, 125V
- GFCI TYPE DUPLX RECEPTACLE - MOUNT 44" AFF UNO
- WP GFCI RECEPTACLE IN WP ENCLOSURE ON ROOF
- DOUBLE DUPLX RECEPTACLE
- TEL/DATA OUTLET, MOUNT 18" AFF
- WALL PHONE, MOUNT 48" AFF
- 15 FIRE ALARM STROBE, CANDELA AS INDICATED, MOUNT 80" AFF
- 75 FIRE ALARM SPEAKER/STROBE, CANDELA AS INDICATED, MOUNT 80" AFF
- SMOKE DETECTOR
- MAGNETIC DOOR HOLDER, CONNECT TO CLOSE DOOR ON FIRE ALARM ACTIVATION
- CEILING SPEAKER
- AFF ABOVE FINISHED FLOOR
- UNO UNLESS NOTED OTHERWISE
- (E) EXISTING TO REMAIN
- (R) REMOVE
- (RL) REMOVE AND RELOCATE
- (ER) RELOCATED ITEM AT NEW LOCATION



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Structural Mechanical Electrical Commissioning

REVISIONS		DESCRIPTION
NUMBER	DATE	BY

Date: JULY 19, 2011
Drawn By: DLL
Checked By: SRM
Project Mgr: IAM
Project No: 11042
Cad File: 11042_E.DWG
Graphic Scale: 0

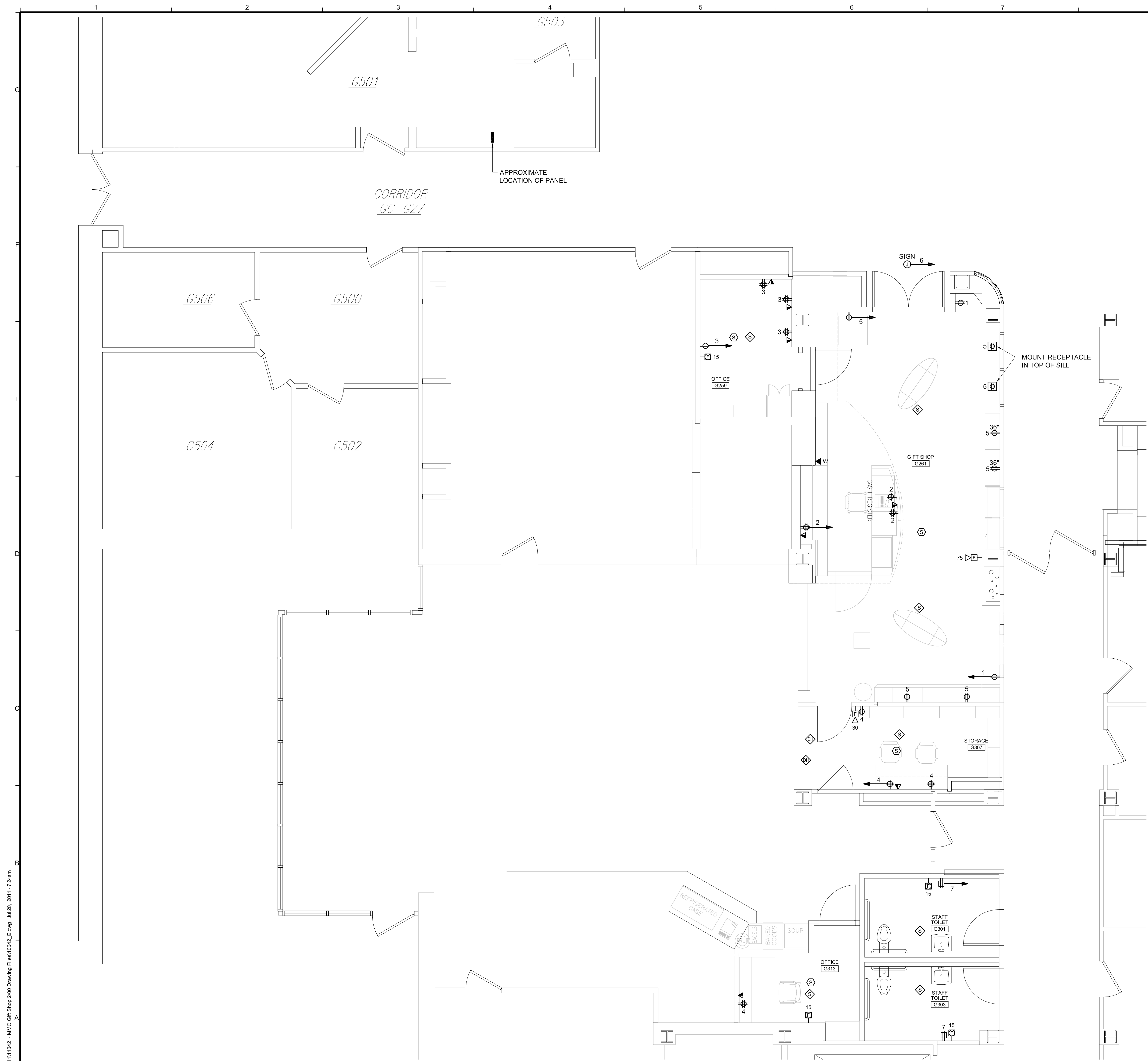
LIGHTING PLAN, LEGEND, GENERAL NOTES AND ABBREVIATIONS

MAINE MEDICAL CENTER
GIFT SHOP 2 PROJECT
PORTLAND, MAINE

A4 GROUND FLOOR LIGHTING PLAN
1/4"=1'-0"

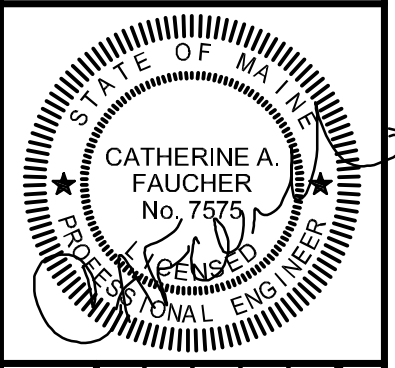
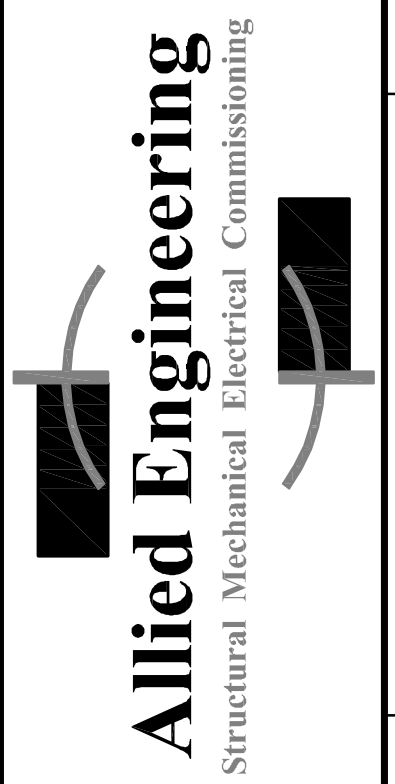
A9 LEGEND
NO SCALE

EL-100



1. FURNISH ALL LABOR, MATERIAL, EQUIPMENT, AND SUPPLIES AND PERFORM ALL OPERATIONS NECESSARY TO PROVIDE A COMPLETE AND OPERABLE ELECTRICAL SYSTEM AS INDICATED ON THE DRAWINGS, SPECIFIED, AND REQUIRED BY CODE OR BUILDING STANDARDS.
2. COMPLIANCE: ALL WORK SHALL BE PERFORMED IN COMPLETE COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE, ALL STATE OR LOCAL CODES, AND AUTHORITIES HAVING JURISDICTION.
3. THE CONTRACTOR SHALL PAY ALL FEES FOR PERMITS AND OBTAIN ALL APPROVALS FROM AUTHORITIES HAVING JURISDICTION.
4. THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND LABOR FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER UNLESS NOTED OTHERWISE.
5. PROVIDE SIX COPIES OF SHOP DRAWINGS OF SUPPLIED ELECTRICAL EQUIPMENT FOR APPROVAL INCLUDING LIGHT FIXTURES, SAFETY SWITCHES, FIRE ALARM COMPONENTS AND WIRING DEVICES.
6. PRIOR TO SUBMISSION FOR REVIEW OF ANY ITEM OF EQUIPMENT, DETERMINE WHETHER OR NOT IT WILL FIT IN THE SPACE PROVIDED. ANY CHANGES IN THE SIZE OR LOCATION OF THE MATERIAL SUPPLIED WHICH MAY BE NECESSARY IN ORDER TO MEET FIELD CONDITIONS OR IN ORDER TO AVOID CONFLICTS WITH OTHER DIVISIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER AND APPROVAL RECEIVED BEFORE SUCH ALTERATIONS ARE MADE.
7. PROVIDE "AS BUILT" RECORD DRAWING SET (RED LINE).
8. GENERALLY, ALL WORK IN FINISHED AREAS SHALL BE CONCEALED. CONSULT OWNER FOR DIRECTION WHERE WORK CANNOT BE CONCEALED.
9. FEEDERS AND BRANCH CIRCUITS SHALL BE INSTALLED AS FOLLOWS:
 -CONCEALED ABOVE CEILING OR IN STUD WALL: SINGLE CONDUCTORS IN EMT.
 TYPE MC CABLE (METAL CLAD) SHALL BE PERMITTED FOR 15 THROUGH 50 AMP CIRCUITS.
 -FINAL CONNECTIONS TO MOTORS, TRANSFORMERS AND OTHER VIBRATING EQUIPMENT:
 OUTDOORS OR WET LOCATIONS:
 LIQUIDTIGHT FLEXIBLE METAL CONDUIT
 INDOORS: FLEXIBLE METAL CONDUIT
 -UNDERGROUND: SCHED 40 PVC, ADAPTED TO RIGID GALVANIZED STEEL WHERE SLAB OR GRADE IS PENETRATED
10. ALL CONDUCTORS SHALL BE COPPER WITH INSULATION RATED FOR 600V AND NOT LESS THAN 90 DEGREES C.
11. BRANCH CIRCUIT CONDUCTORS SHALL NOT BE LESS THAN #12 AWG AND SHALL NOT EXCEED 100 FEET FROM PANELBOARD TO FURTHEST OUTLET. FOR HOMERUNS THAT DO NOT EXCEED 150 FEET, #10 AWG IS PERMITTED. FOR HOMERUNS GREATER THAN 150 FEET, CONDUCTOR SHALL NOT BE LESS THAN #8 AWG.
12. COLOR CODE THE CONDUCTORS OF EACH PHASE AS FOLLOWS:
 480/277 VOLT: A-BROWN, B-ORANGE, C-YELLOW
 120/208 VOLT: A-BLACK, B-RED, C-BLUE
 NEUTRAL CONDUCTORS: 277 VOLT-NATURAL GRAY, 120 VOLT-WHITE
 GROUND WIRES SHALL BE BARE COPPER OR CODED GREEN IF INSULATED.
13. CIRCUITING SHALL BE AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH APPLICABLE CODES AND STANDARD PRACTICE.
14. COMBINING OF CIRCUITS WITHIN A SINGLE RACEWAY IS PERMITTED, WITH A MAXIMUM OF EIGHT CURRENT CARRYING CONDUCTORS PER HOMERUN.
15. COMMUNICATIONS CONDUIT: 3/4" EMT WITH PULL STRING TO 6" ABOVE ACCESSIBLE CEILING FOR PHONE AND COMPUTER ACCESS.
16. ALL CUTTING AND PATCHING REQUIRED FOR INSTALLING THE ELECTRICAL WORK SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. ALL CUTTING SHALL BE PATCHED AND FINISHED TO MATCH SURROUNDING AREA, SATISFACTORY TO OWNER.
17. PENETRATIONS OF ABOVE GRADE FLOOR SLABS, FIRE PENETRATIONS AND FIRE WALLS SHALL BE FIRE STOPPED BY SEALING WITH MATERIAL APPROVED FOR THE APPLICATION.
18. PROVIDE SEALING FITTINGS TO PREVENT PASSAGE OF WATER VAPOR WHERE CONDUITS PASS FROM WARM TO COLD LOCATIONS, SUCH AS REFRIGERATED SPACES, AIR CONDITIONED SPACES OR SIMILAR SPACES. IN CONCEALED WORK, EACH FITTING SHALL BE INSTALLED IN A FLUSH STEEL BOX WITH A BLANK COVER PLATE HAVING THE SAME FINISH AS THAT OF OTHER ELECTRICAL PLATES.
19. FURNISH AND INSTALL ALL SUPPORT HANGERS AND MISC. METALS SUCH AS: GALVANIZED IRON PIPE STANCHIONS, RACKS, FITTINGS, ETC. REQUIRED FOR PROPER INSTALLATION OF WORK. ALL MISC. RACKS AND FITTINGS SHALL BE GALVANIZED AND SHALL EITHER BE INDOOR CHANNEL, POWER STRUT OR UNISTRUT, UNLESS OTHERWISE SPECIFIED.
20. MINIMUM REQUIREMENT FOR GROUNDING SYSTEM SHALL BE GOVERNED BY THE LATEST EDITION OF THE NEC. ALL GROUNDS, BONDING, ETC. SHALL MEET THESE REQUIREMENTS EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE SPECIFIED HEREIN. FURNISH AND INSTALL ANY AND ALL ITEMS NECESSARY TO MEET THESE REQUIREMENTS.
21. EXCEPT WHERE SPECIFICALLY INDICATED, ALL EXPOSED NON-CURRENT CARRYING METALLIC PARTS OF ELECTRICAL EQUIPMENT, METALLIC RACEWAY SYSTEMS, GROUND BUS, METALLIC CABLE ARMOR AND NEUTRAL CONDUCTOR OF THE WIRING SYSTEM SHALL BE GROUNDED.
22. ALL RECEPTACLES SHALL BE GROUNDED VIA A COPPER GROUNDING CONDUCTOR THAT SHALL BE RUN WITH POWER WIRES. A SEPARATE GROUNDING CONDUCTOR SHALL BE RUN IN EVERY FEEDER AND BRANCH CIRCUIT CONDUIT.
23. ALL DEVICES SHALL BE SPECIFICATION GRADE AND OF ADEQUATE SIZE AND TYPE AS REQUIRED FOR THE PARTICULAR LOCATION AND SERVICE INTENDED. DEVICES SHALL NOT BE RATED LESS THAN 20 AMPS. ALL DEVICES SHALL HAVE WHITE FINISHES UNLESS NOTED OTHERWISE. DEVICE PLATES SHALL BE WHITE NYLON.
24. OUTLET BOXES IN THE DRYWALL PARTITIONS OR COLUMNS SHALL BE 4" SQUARE AND NOT LESS THAN 1 1/2" DEEP, GALVANIZED SHEET STEEL WITH PLASTER COVERS. BOXES SHALL BE AS MANUFACTURED BY STEEL CITY OR EQUIVALENT.
25. FURNISH AND INSTALL PULL AND JUNCTION BOXES WHERE SHOWN ON DRAWINGS AND ANY ADDITIONAL BOXES AS MAY BE REQUIRED TO FACILITATE PULLING WIRE AND CABLE OR TO PREVENT DAMAGE TO INSULATION.
26. CONDUCTORS SHALL BE CONTINUOUS WITHOUT JOINTS OR SPLICES ON RUNS BETWEEN OUTLET BOXES. ALL SPLICES SHALL BE MADE AT BOXES ONLY.
27. LABEL EACH RECEPTACLE ON THE INSIDE OF EACH FACEPLATE WITH PANEL AND CIRCUIT NUMBER DESIGNATIONS.
28. PROVIDE THE NECESSARY SOURCE OF POWER, METERS, INSTRUMENTS, TEMPORARY WIRING AND LABOR, AND PERFORM TESTS AND ADJUSTMENTS OF EQUIPMENT AND WIRING INSTALLED OR CONNECTED UNDER THIS SPECIFICATION TO DETERMINE PROPER PHASING, POLARITY, FREEDOM FROM GROUNDS, AND OPERATION OF EQUIPMENT.
29. FIRE ALARM COMPONENTS SHALL BE LISTED FOR USE WITH THE EXISTING FIRE ALARM SYSTEM. PROVIDE COMMON COMPONENTS AND PROGRAMMING AS REQUIRED.

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Date: JULY 19, 2011
 Drawn By: DLL
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 Project No: 11042
 Cad File: 11042_E.DWG
 Graphic Scale: 0

ELECTRICAL SPECIFICATION AND POWER AND SYSTEMS PLAN

MAINE MEDICAL CENTER
 GIFT SHOP 2 PROJECT
 PORTLAND, MAINE

EP-100

N:\Projects\2011\11042 - MMC Gift Shop 200 Drawing Files\1042_E.dwg Jul 20, 2011 7:24am

A1 GROUND FLOOR POWER AND SYSTEMS PLAN
 1/4"=1'-0"

A8 ELECTRICAL SPECIFICATION