

# Space Needs Analysis Bristol Municipal Buildings

## Police Department

131 North Main

Total 1<sup>st</sup> Floor Building Area: 23790 SF  
plus  
2150 SF on Second Floor

Current Use: 1st Floor houses  
Police Department  
Basement Parking  
Garage

Original Construction Year: 1978



Previous studies reviewed for this building:

None.

Drawings used for Study:

PDF's of Alteration Drawings 1999

## Current Facility

### Building Condition (Refer to Appendix 'A', Condition Survey)

The Police Department occupies the first floor of the building and a portion of the second floor. They also use the basement parking garage.

The building was altered in 1999 and had to comply with ADA, Building and Fire Codes at that time. In the tours of the building no noticeable violations were seen.

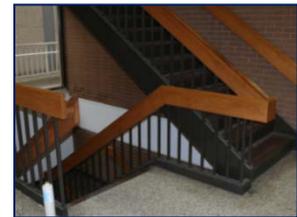
### Fire and Code Deficiencies

The building appears to be code compliant. 42 inch high guard rails have not been provided on stairs.

### ADA Deficiencies

The building appears to be ADA compliant except for items listed in the MEP Survey and the following:

Handrails on stairs do not meet ADA design criteria. Nosings on stairs project slightly and could cause a tripping hazard. Elevator to Basement garage does not meet the dimensional requirements.



### Hazardous Materials

None noted.

**Mechanical, Electrical, Plumbing and other services.** (Refer to Appendix 'B', MEP Survey)

### Structural Systems

The concrete framed building appears to be structurally sound.

### Available Parking

There are 45 available parking spaces on the basement level. Parking is also available on the third level; 57 spaces and on the fourth level; 62 spaces although currently many of these are reserved for City Hall.



## Use Recommendations

Uses:

We can only recommend that the building continue to be used for the Police Department if additional space can be obtained by relocating the second floor Superior Court. The building for Police use is in a good location with its own parking garage for Police vehicles. The space is very cramped and in much need of expansion.

- a. The facility is ideally suited to continue use as a Police Department. Expansion space is however, required with no simple solution to this.
- b. If the Courts were moved out of the building (see Bingham) this would provide a substantial area for expansion. In fact considerably more space than required for the police. It would be necessary to develop a combination of compatible uses for the space (see Courts).
- c. For security reasons, parking areas in the building should be controlled access for designated individuals in City Hall. Public should not be allowed to park in this building.
- d. It would also be possible to create a second and third floor link between the police department building and City Hall but this would not provide adequate expansion space. The court area would need to be reconfigured to expand into the new addition in the front of the building to achieve contiguous space for the second floor police areas. City hall would then be able to expand on the third floor. The first floor could be open to the elements or enclosed to provide a dignified entrance to City Hall. This open area could have multiple uses; kiosk; display space; manned help desk etc.



**POLICE DEPARTMENT**  
**Interior Conditions Survey**

Ratings: 1= Good; 2= Needs Refinished; 3= Replace

Rm #	Name	Floor	Rating	Walls	Rating	Ceiling	Rating	Notes
100	Supervisor Office	Carpet	1	VWC	1	2x2 SAP	1	
101	Communication	Carpet	3	VWC	1	2x2 SAP	3	
102	Storage	VCT 12x12	2	Ptd GWB	1	Concrete	1	
103	Toilet	1x1 Mosaic	2	4x4 CT Wainscot	1	2x2 SAP	1	
				Ptd GWB	2			
104	Kitchen	Rubber	1	VWC	1	2x2 SAP	1	
106	Ammunition	VCT 12x12	2	Ptd CMU	1	2x2 SAP	1	
107	Armorer	VCT 12x12	2	Ptd CMU	1	2x2 SAP	1	
108	Male Cells	Epoxy	1	Ptd GWB	2	2x2 SAP	1	
						Ptd Steel	1	
109	Female Cells	Epoxy	1	Ptd GWB	2	2x2 SAP	1	
						Ptd Steel	1	
110	Custodian	Epoxy	1	Ptd CMU	1	Concrete	1	
111	Booking	Epoxy	1	Ptd CMU	2	2x2 SAP	2	
112	Intox	Epoxy	1	Ptd CMU	1	2x2 SAP	1	
113	Interview	Epoxy	1	Ptd CMU	1	2x2 SAP	1	
				Ptd GWB	2			
114	Holding Room	Epoxy	1	Ptd CMU/GWB	2	2x2 SAP	1	
116	Decon	Epoxy	1	Ptd CMU	2	Ptd GWB	1	
117	Union Office	VCT 12x12	2	Ptd CMU/GWB	2	2x2 SAP	2	
118	Prisoner Transfer	Concrete	2	Ptd CMU	2	Concrete	1	
119	Emergency Response	Rubber	2	Ptd GWB	2	2x2 SAP	2	
120	Schedule Lieutenant	Carpet	2	VWC	1	2x2 SAP	1	
121	Electrical	VCT 12x12	2	Ptd CMU	1	Concrete	1	
122	Lounge	Rubber	1	Ptd GWB	2	2x2 SAP	2	
124	Interview	Rubber	1	Ptd GWB	2	2x2 SAP	1	
125	Juvenile Holding	Rubber	1	Ptd GWB	1	2x2 SAP	1	
126	Corridor	Rubber	1	Ptd GWB	1	2x2 SAP	1	
127	Polygraph	Rubber	1	Ptd GWB	1	2x2 SAP	1	
129	Office	Rubber	1	Ptd GWB	1	2x2 SAP	1	
130	Office	Rubber	1	Ptd GWB	1	2x2 SAP	2	

**POLICE DEPARTMENT**  
**Interior Conditions Survey**

Ratings: 1= Good; 2= Needs Refinished; 3= Replace

Rm #	Name	Floor	Rating	Walls	Rating	Ceiling	Rating	Notes
131	Office	Rubber	1	Ptd GWB	1	2x2 SAP	1	
132	Interview	Rubber	1	Ptd GWB	2	2x2 SAP	1	
133	Copier	Rubber	1	Ptd GWB	2	2x2 SAP	2	
135	Office	Rubber	1	Ptd GWB	2	2x2 SAP	1	
137	Office	Carpet	1	VWC	1	2x2 SAP	1	
139	Detective	Carpet	2	Ptd GWB	1	2x2 SAP	1	
142	Office	Carpet	1	VWC	1	2x2 SAP	1	
143	Electrical	VCT 12x12	2	Ptd CMU/Concrete	1	Concrete	1	
144	School Resource	Carpet	1	VWC	1	2x2 SAP	2	
145	Community Relations	Carpet	1	VWC	1	2x2 SAP	1	
146	Office	Carpet	1	VWC	1	2x2 SAP	1	
148	Main Desk	Rubber	2	Ptd GWB	2	2x2 SAP	2	
149	Break Room	Rubber	1	VWC	2	2x2 SAP	1	
150	Records	Carpet	1	VWC	1	2x2 SAP	1	
153	Records Lieutenant	Carpet	1	VWC	1	2x2 SAP	1	
154	Corridor	Rubber	2	Ptd GWB	2	Ptd GWB	1	
155	Identification	Rubber	2	Ptd GWB	2	2x2 SAP	2	
156	Evidence Processing	Rubber	1	Ptd GWB	2	2x2 SAP	1	
157	Evidence	VCT 12x12	3	Ptd GWB	2	2x2 SAP	1	
158	Report Room	Rubber	2	Ptd GWB	2	2x2 SAP	1	
159	Squad Room	Rubber	2	Ptd GWB	2	2x2 SAP	2	
160	Shift Lieutenant	Carpet	3	VWC	1	2x2 SAP	1	
161	Shift Sergeant	Carpet	3	VWC	1	2x2 SAP	1	
162	Women's Locker	Rubber	1	Ptd GWB	2	2x2 SAP	1	
163	Women's Lavatory	1x1 Mosaic	1	4x4 CT Wainscot	1	Ptd GWB	1	
				Ptd GWB	1			
165	Janitor's Closet	1x1 Mosaic	1	Ptd GWB	1	Concrete	1	
166	Men's Lavatory	1x1 Mosaic	1	4x4 CT Wainscot	1	Ptd GWB		
				Ptd GWB	1			
167	Storage	VCT 12x12	2	Ptd GWB	1	Concrete	1	

**POLICE DEPARTMENT**  
**Interior Conditions Survey**

Ratings: 1= Good; 2= Needs Refinished; 3= Replace

Rm #	Name	Floor	Rating	Walls	Rating	Ceiling	Rating	Notes
168	Shower	1x1 Mosaic	2	4x4 CT	1	Ptd GWB		
169	Men's Lockers	Rubber	2	Ptd GWB	2	2x2 SAP	1	
170	Traffic Lieutenant	Carpet	1	VWC	1	2x2 SAP	1	
171	Training	Carpet	1	VWC	3	2x2 SAP	1	
171A	Storage	Rubber	2	Ptd GWB	2	2x2 SAP	1	
172	Closet	Carpet	1	Ptd GWB	1	2x2 SAP	3	
173	Traffic	Carpet	1	VWC	1	2x2 SAP	1	
175	Police Technology	Carpet	1	VWC	1	2x2 SAP	1	
176	Storage	VCT 12x12	2	Ptd GWB	2	2x2 SAP	1	
176A	Custodian	1x1 Mosaic	1	Ptd GWB	1	Concrete	1	
177	Toilet	1x1 Mosaic	1	4x4 CT Wainscot	1	2x2 SAP	1	
				Ptd GWB	1			
178	Men's Room	1x1 Mosaic	1	4x4 CT Wainscot	1	2x2 SAP	1	
				Ptd GWB	2			
179	Women's Room	1x1 Mosaic	1	4x4 CT Wainscot	1	2x2 SAP	1	
				Ptd GWB	2			
180	Lobby	CT	1	Ptd GWB w/Reglets	2	2x2 SAP	1	
185	Electrical	VCT 12x12	2	Ptd CMU/Concrete	2	Concrete	1	
186	Operation Commander	Carpet	1	VWC	3	2x2 SAP	1	
187	Admin Assistant	Carpet	1	VWC	1	2x2 SAP	1	
188	Admin Commander	Carpet	1	VWC	1	2x2 SAP	1	
189	Closet	Carpet	1	Ptd GWB	2	2x2 SAP	1	
190	Closet	Carpet	2	VWC	1	2x2 SAP	1	
191	Reception	Carpet	1	VWC	1	2x2 SAP	1	
192	Conference	Carpet	1	VWC	1	2x2 SAP	1	
193	Closet	Carpet	1	Ptd GWB	1	2x2 SAP	1	
194	Closet	Carpet	1	Ptd GWB	1	2x2 SAP	1	
195	Chief	Carpet	1	VWC	1	2x2 SAP	2	
196	Men	1x1 Mosaic	2	4x4 CT Wainscot	1	2x2 SAP	1	
				Ptd GWB	2			

**POLICE DEPARTMENT**  
**Interior Conditions Survey**

Ratings: 1= Good; 2= Needs Refinished; 3= Replace

Rm #	Name	Floor	Rating	Walls	Rating	Ceiling	Rating	Notes
197	Women	1x1 Mosaic	2	4x4 CT Wainscot	1	2x2 SAP	1	
				Ptd GWB	2			
198	Toilet	1x1 Mosaic	2	4x4 CT	1	2x2 SAP	1	
200	Corridor	Rubber	2	Ptd GWB	2	2x2 SAP	1	
						Ptd GWB	1	
201	Photo Lab	Rubber	1	Ptd GWB	2	2x2 SAP	1	
201A	Storage	Rubber	1	Ptd CMU/GWB	1	2x2 SAP	1	
202	Electrical	VCT 12x12	2	Ptd CMU/GWB	1	Concrete	1	
203	Stair	Terrazzo	1	Brick	1	Ptd GWB	2	
205	Corridor	Rubber	2	Ptd GWB	2	2x2 SAP	1	
						Ptd GWB	1	
205A	Vestibule	Rubber	2	Ptd GWB	2	2x2 SAP	1	
						Ptd GWB	1	
<b>Police Spaces on Second Floor (Court Floor)</b>								
201	Narcotics	Recently Renovated						
203	Union	Carpet	1	VWC	1	2x2		
204	Hall	12x12 VCT	2	CMU/VWC	1	2x2	1	
205	Lobby	12x12 VCT	2	Ptd CMU	2	2x2	1	
206	Interview	12x12 VCT		Ptd GWB/CMU	1	2x2	1	
207	Police Training	Carpet	1	VWC	1	2x2	1	

**Mechanical and Electrical Systems**  
**Existing Conditions Narrative**

**Police Headquarters and Court Facility**  
**Bristol, Connecticut**  
November 1, 2011

Prepared By  
**Consulting Engineering Services, Inc.**  
811 Middle Street, Middletown, Connecticut 06457  
CES Project No. 2011127.00

## APPLICABLE CODES AND STANDARDS

The mechanical, electrical, plumbing, and fire protection systems will be reviewed in conformance with the requirements of the following codes and regulations and all applicable local authority requirements.

- A. 2005 Connecticut State Building Code
- B. 2005 Connecticut State Fire Safety Code
- C. 2003 International Building Code(IBC)
- D. 2003 International Plumbing Code
- E. 2003 International Energy Conservation Code
- F. NFPA, All applicable code sections, Latest Version
- G. ASHRAE 90.1

## PLUMBING NARRATIVE

### PLUMBING UTILITIES

#### 1. Domestic Water:

- a. Existing Domestic Water Service: The existing building is currently served by a 4 inch domestic water service. The domestic water service equipment includes a 2 inch water meter, pressure reducing valve, and isolation valves. This water service currently serves all of the building's domestic water needs and has adequate pressure. The water distribution system is original to the building.



#### 2. Natural Gas:

- a. There is no natural gas service to the building.

#### 3. Sanitary:

- a. The sanitary sewer system provides sanitary waste drainage for plumbing fixtures located throughout the building. The piping material above grade is primarily cast iron. The plumbing fixtures drain to buried sanitary waste piping to the buildings exterior and to the municipal sewer system. In the lower level of the Police building, sewage ejector pumps are installed to pump the waste into the municipal sewer system. These pumps are in poor condition.



#### 4. Storm:

- a. The storm piping is primarily cast iron and drains to the municipal storm water system. Some of the original piping has been replaced with PVC piping. There are no secondary roof drains or strainers on the existing roof drains. Domed strainers should be added to the roof drains to keep debris out of the storm water system.



- b. There are no reports of problems with the storm water piping below grade.

### **PLUMBING FIXTURES AND SPECIALTIES**

#### 1. Existing plumbing fixtures are as follows:

- Water closets are floor or wall mounted; flush valve, vitreous china. Some of the fixtures have been replaced with water conserving fixtures with sensor operated flush valves. The fixtures range from original to the facility in fair condition to new in very good condition. The original fixtures are non-water conserving type and non-ADA compliant.



- Urinals are wall hung, vitreous china, with flush valves. The fixtures are original to the facility in fair condition, non-water conserving type and non-ADA compliant.



- Lavatories are wall hung vitreous china. Some of the fixtures have been replaced with water conserving fixtures with sensor operated faucets. The original fixtures have two lever handle faucets. The fixtures range from original to the facility in fair condition to new in very good condition. The original fixtures are non-water conserving type and the faucets and drains are non-ADA compliant.



- Drinking fountains are wall mounted stainless steel units in good condition. The amount these units protrude into the path of travel should be reviewed for compliance with current ADA requirements.



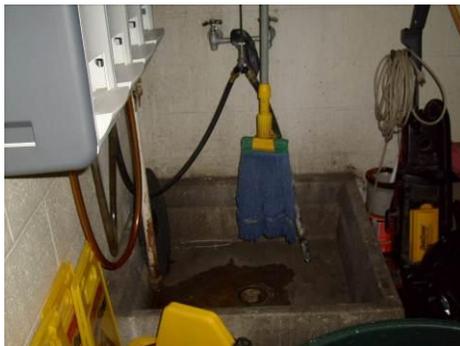
- In the Police Headquarters, there is a single shower located in the lower level training room, up a small flight of stairs. This shower is a fiberglass unit and in good condition. The location of this shower is not ADA accessible.



- Stainless steel sink with two lever gooseneck type faucet is present in a work/break room. This sink is ADA compliant and in good condition.



- Janitor sinks are floor mounted cast stone units with two lever faucets or pedestal mounted fiberglass units with two lever faucets. There is no vacuum breaker present at these sinks. The sinks are in fair to good condition.



## DOMESTIC HOT WATER SYSTEMS

1. The existing domestic hot water system includes a Ruud Model ES120-36-G electric hot water heater. This equipment is in very good condition.



2. A local instantaneous electric water heater has been installed below a sink in a break room in the Police Department. This equipment is in good condition.



3. There are oil/water separators located in the parking garage. (1) is located above grade and one is located in the floor of the lower level. This equipment is original to the facility and in poor condition.



4. There is an air compressor system consisting of a vertical air compressor, piping and outlets located in a maintenance area serving the Police Department. This equipment is in fair condition.



## **FIRE PROTECTION NARRATIVE**

### **FIRE PROTECTION SERVICE**

1. The building is served by a 6" fire protection service fed from a fire main in North Main Street. This fire service includes a shut-off valve and Watts Model 774 double check valve. The buildings are protected throughout with a full sprinkler system. There are also standpipes located in the stairs. This backflow preventer equipment has been recently installed and is in good condition. The remainder of the piping and most of the sprinkler heads are original to the building. The sprinkler heads and fire protection piping in the Police Headquarters was modified during the last renovation.



### **MECHANICAL SYSTEMS:**

1. The existing building is heated by (2) H.B. Smith 350 Mills, 13-section oil fired steam boilers with Power Flame Model C30-04HBS-10-14 oil burners. There is a separate oil fired boiler that serves the cell block area. It is a Weil McClain Series 78, Model 478 hot water boiler with a Carlin Model 201 CRD-w oil burner. The H.B. Smith boilers, burners, and breeching are original to the building and in poor condition. The Weil McClain equipment is newer and in good condition.

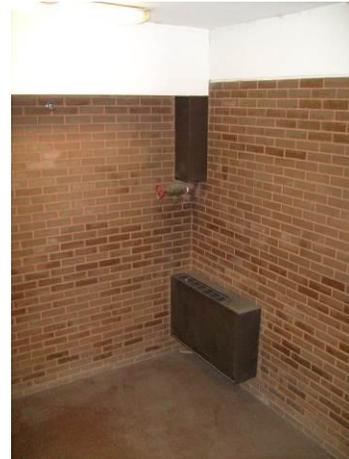


2. The heating plant also includes a condensate receiver, boiler feed system, hot water heat exchanger, condensate receivers, and hot water pumps. All of this equipment is original to the facility and poor condition.





3. The present heating system also includes cabinet unit heaters, and ceiling mounted unit heaters and steam coils in the air handling equipment. This equipment is original to the building and in poor condition.



4. The air conditioning system consists of a Trane Series R Centravac chiller, Model RTHB150FMCOONW0000UNN3LF2LF00QU chiller installed in 1996. This chiller is shared between the two buildings. The chiller is in good condition. There is a cooling tower mounted on the roof of the parking facility that is in very poor condition. This piece of equipment has significant corrosion problems and the maintenance staff has made many attempts to repair this sump which has allowed this unit to operate.



5. The air handling equipment is Trane Climate Changer units that serve as heating and air conditioning units or air conditioning units only. There are also large exhaust/return air fans. This equipment is located in mechanical rooms within the buildings and are original to the facility and in poor condition.



6. The steam and chilled water piping consists of iron supply and return piping. This piping is original to the facility and the steam condensate piping is more than likely in poor condition. There are a number of areas where the pipe insulation has been damaged and should be repaired.





7. The roof mounted equipment consists of exhaust fans, condensing units, etc. This equipment is original to the building and in poor condition.



8. The existing temperature control system consists of a pneumatic system by Johnson Controls. This includes an air compressor, air dryer, control panels and pneumatic tubing. Some of the control valves have been replaced as needed. The remainder of the equipment is original to the building and in poor condition.





## ELECTRICAL NARRATIVE

### EXISTING SYSTEMS

1. The building is served by a single electrical service rated 1600amperes, 480Y/277volts, 3-phase, 4-wire. This service equipment consists of a 1600amp main disconnect switch, distribution sections and metering per utility company requirements. The service equipment is original to the building and is in fair condition. In addition, the current electrical room access does not meet the current code requirements for egress from the room.



2. There are a number of electrical panels located throughout the facility. Some of these panels are original to the facility and some have been replaced with new. There are a number of panelboards located in storage rooms that have material stored in front of them which is a code violation. In addition, there is one panelboard that has had a significant water leak above it. The conduit, boxes, and panel are showing signs of corrosion. The condition of the panelboards ranges from poor to good.





3. The building is served by a Cummings Model 080FDR5057A8W, 410kW, 613kVA diesel generator. The generator is located in the main electrical room. The transfer switch is located in the main electrical switchboard. There is a separate day tank (fuel tank) that pumps fuel oil from the exterior underground tank to feed the emergency generator. To meet current codes, (2) separate automatic transfer switches would be required to separate life safety from other loads in the building. This generator and associated equipment is original to the facility and in good condition.

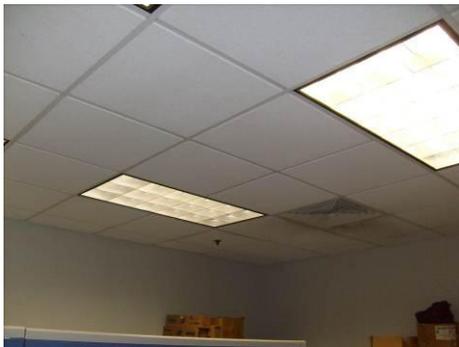


4. In the Main Electrical Room there is a series of (91) wet-cell batteries that serve as back-up power to emergency lighting and other pieces of equipment between when normal utility power is lost and the emergency generator starts. It is controlled by a Dual

Lite Model 120-120-S-791 charger. There is also a number of Dual Lite control panels located throughout the building. Some of these control panels are inaccessible because of items stored in front of them. This equipment is original to the facility and in fair condition. To satisfy current codes, this equipment is required to be in a separate room with adequate ventilation, etc.



5. The lighting throughout the facility consists of recessed parabolic fixtures, recessed center basket fluorescent fixtures, and recessed mounted acrylic lensed fluorescent fixtures in the office areas, etc. Other fixtures include industrial fluorescent fixtures, wrap around acrylic lensed fixtures, and other miscellaneous fixtures throughout the building. Most of the lighting has been upgraded to newer T8 technology, however, there are other fixtures using older T12 technology or incandescent lamps. The lighting ranges from very good to poor condition.





6. The fire alarm system is manufactured by Fire Lite, Model Sensiscan 2000 or Simplex. The system includes control panels, manual pull stations, horn-strobes, and some smoke detectors. This system is in fair condition and portions are non-ADA compliant. Additional audio visual devices should be added to the building as well as upgrading to an addressable ADA-compliant system.



7. The emergency lighting is provided by a Dual Lite Inverter System that includes the inverter, batteries, ceiling mounted remote heads and controls. Although this system is operational, it is in poor condition. Additional lighting fixtures are required to meet current requirements for emergency lighting.



8. The exit signs consist of fluorescent exit signs with batteries. This equipment is in fair condition. Additional exit signs are required to meet current requirements for exit signs.



9. Miscellaneous Electrical Equipment:

- a. There is a lightning protection system installed at the facility. It appears that during recent roof work, some of the lightning protection system was disconnected. This should be repaired to maintain the integrity and operation of the system.



- b. There is a site lighting system on the top level of the parking garage. This lighting system serves the parking areas only and includes pole and wall mounted fixtures. This equipment is in fair condition.



## MEP SYSTEMS CONCLUSION

In general with the exception of the recently renovated areas of the police department and some of the electrical panel boards, all of the other systems are 25+ years old and have met their useful life expectancy. The system components are very inefficient. We recommend that most of the systems be replaced with new.



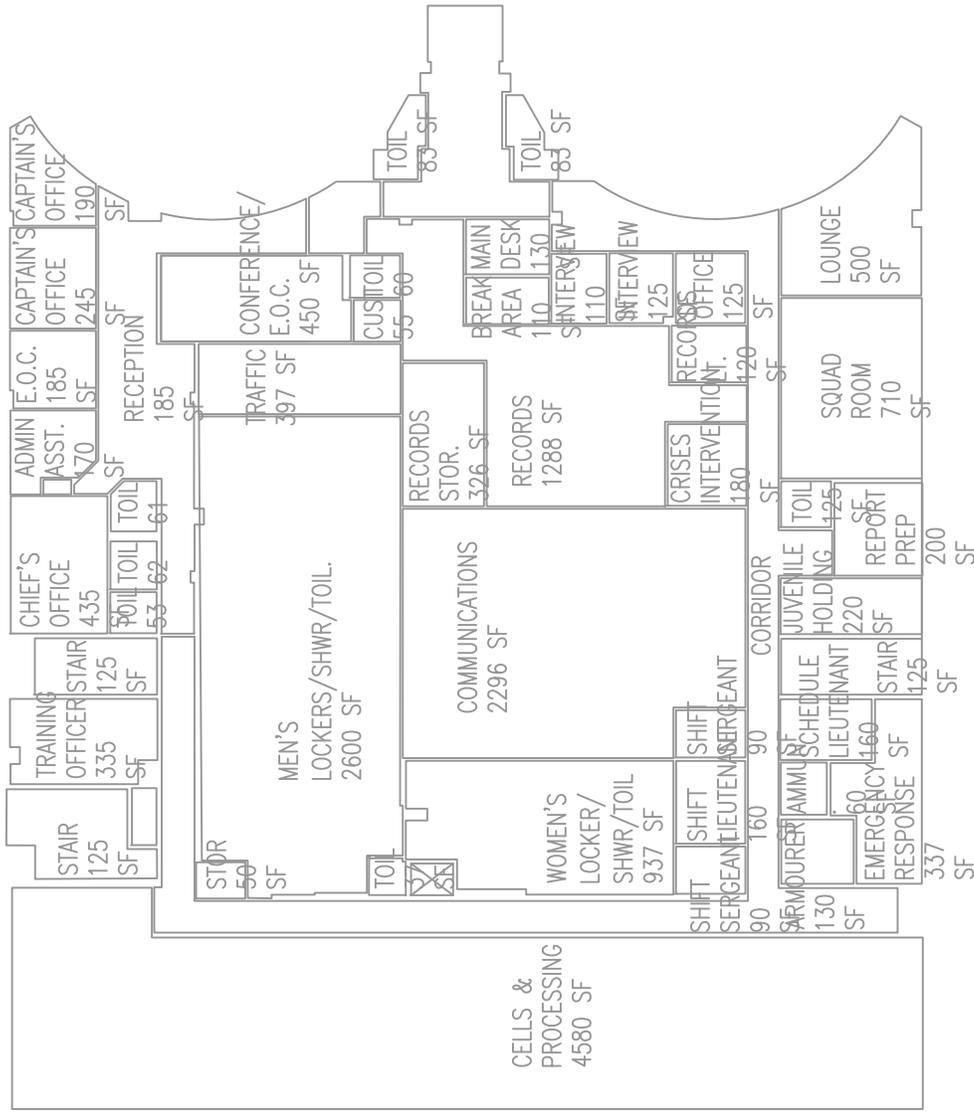
**Police Department**  
Existing Net Useable Area

POLICE DEPARTMENT BREAKDOWN	Current Space SF	Floor	Proposed SF	Comments
Communications	1090	1	2190	Add 3 people + another supervisor
Men's Cells	650	1	1010	Modernize, add 4 cells
Suicide Watch Cell			100	
Amunition Storage	60	1	60	
Armourer	130	1	130	
Women's Cells	345	1	525	Modernize, add 2 cells
Booking	290	1	630	Add 2 stations
Intoxication Room	70	1	70	
Interview	80	1	80	
Holding	110	1	110	
Storage	60	1	60	
Decontamination	35	1	35	
Union Office	75	1	75	
Prisoner Transfer	820	1	1100	Drive through desired
Emergency Response Team	265	1	265	
Schedule Lieutenant	155	1	155	
Lounge	500	1	500	
Juvenile Holding	110	1	210	More protective
Observation	108	1	108	
Interview	155	1	155	
Interview	0		100	Added Interview room
Polygraph Testing	90	1	90	
Cyber Crime	185	1	185	
Computer Equipment	90	1	90	
Detective Sgt.	100	1	100	
Detective Sgt.	0		100	Added Detective Sgt office
Interview	90	1	90	
Office	115	1	115	
Detective Squad Room	1120	1	1720	Added 10 detective stations
Detective Lieutenant	200	1	200	
Office	125	1	125	
Interview	110	1	110	
Main Desk	130	1	130	
Front Lobby	735	1	735	Includes public toilets
Lobby Interview Rooms			200	Two interview rooms at lobby
Records	1210	1	1210	Question, no additional space?
Records Break Area	110	1	110	
Record's Lieutenant	120	1	120	
Records Storage	320	1	320	
Crises Intervention Office	180	1	180	
Evidence	1300	1	1900	Added 600 sf for evidence
Report Preparation	150	1	150	
Squad Room	385	1	700	Capacity for 25
Shift Lieutenant	160	1	160	
Shift Sergeant	90	1	90	
Shift Sergeant	0		90	Added Shift Sgt office
Women's Locker/Shower/Toilet Room	670	1	834	Add toilets, wider lockers; need test layout
Men's Locker/Shower/Toilet Room	2075	1	2565	Add toilet, wider lockers; need test layout
Training Officer	290	1	290	
Traffic Office	170	1	170	
Traffic Lieutenant	112	1	112	
Captain's Office	220	1	220	
Captain's Office	190	1	190	
Conference Room	245	1	420	20 seats capacity
E.O.C.	185	1	360	emergency operations; 8 people,computers
Reception	354	1	354	
Administrative Assistant	170	1	170	
Chief's Office	435	1	435	
Deputy Chief's Office	0		250	Office for deputy chief
Evidence Drying	335	1	335	
Narcotics Detectives	317	2	317	Needed on same floor as rest of detectives
Union Office	218	2	218	
Interview	173	2	173	
Training Classroom	1470	2	1470	Need public access, first floor preferred
<b>TOTAL 2ND FLOOR:</b>	<b>2178</b>			
	Current Space SF		Proposed SF	
<b>TOTAL NET USEABLE SF</b>	<b>19852</b>		<b>25571</b>	72%
<b>COMMON AREAS &amp; WALLS</b>	<b>7448</b>		<b>9929</b>	28%
<b>TOTAL GROSS SF</b>	<b>27300</b>		<b>35500</b>	100%

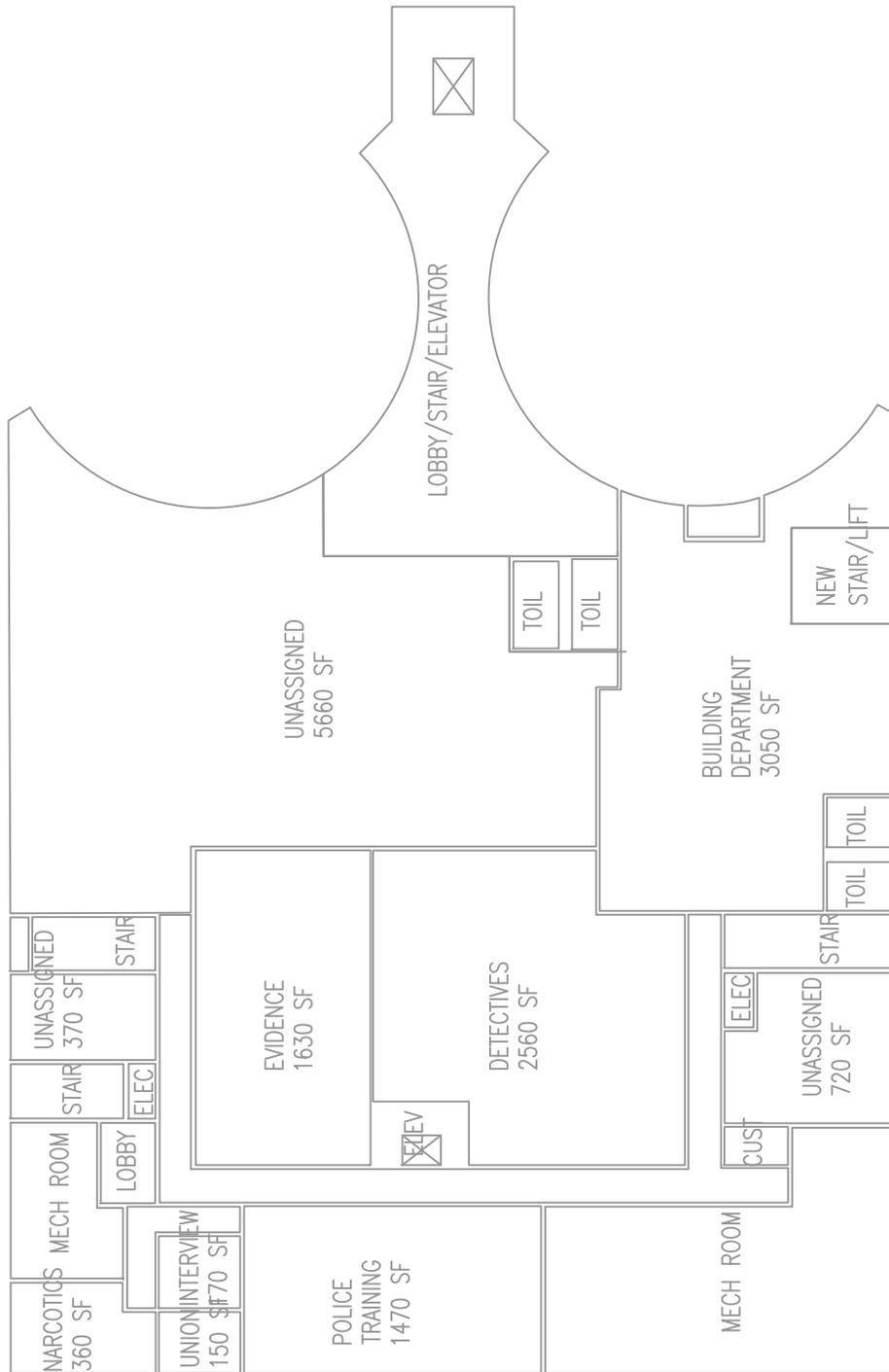
(Approx. 30% larger than exist.)

8200 Net Increase





PROPOSED  
FIRST FLOOR  
REORGANIZATION



PROPOSED  
 SECOND  
 FLOOR  
 (REPLACES  
 COURTS)



McGLADREY & PULLEN, LLP  
 Certified Public Accountants and Consultants

PROJECT NAME:  
 City of Bristol Connecticut  
 Bristol, Connecticut  
 Police Department

PROJECT NUMBER:  
 378-992-6

**SYMBOLS & ABBREVIATIONS**

■ TYPICAL DUAL DATA, DUAL VOICE  
 DROP IN SURFACE MOUNT BOX  
 WITH 12" OF RACEWAY

AFF ABOVE FINISHED FLOOR  
 E.C. ELECTRICAL CONTRACTOR  
 MDF MAIN DISTRIBUTION FRAME

**LABELING LEGEND**

— POSITION ON PATCH PANEL  
 ■ A-TT PATCH PANEL IDENTIFICATION

REVISIONS:

NO.	DESCRIPTION	DATE
0	FOR INFORMATION	03-24-97
1	FOR BID / CONSTRUCTION	04-28-97
2	UPKED FLOOR PLAN	10-24-97

DESCRIPTION:  
 POLICE DEPARTMENT  
 NETWORK INFRASTRUCTURE CABLING  
 GROUND FLOOR PLAN

DATE:  
 03-12-97

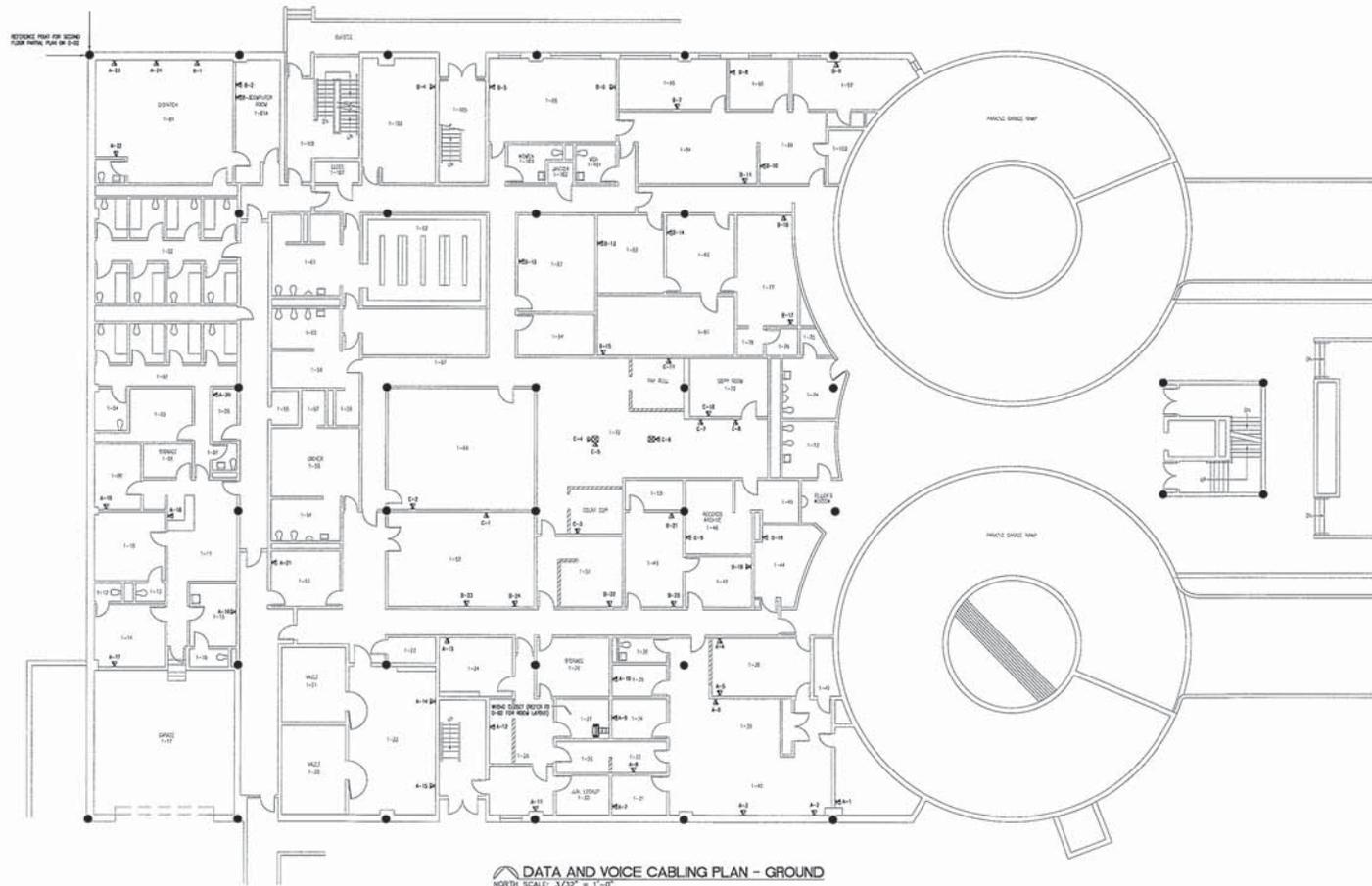
DRAWN BY:  
 BAM

DRAWING NUMBER:

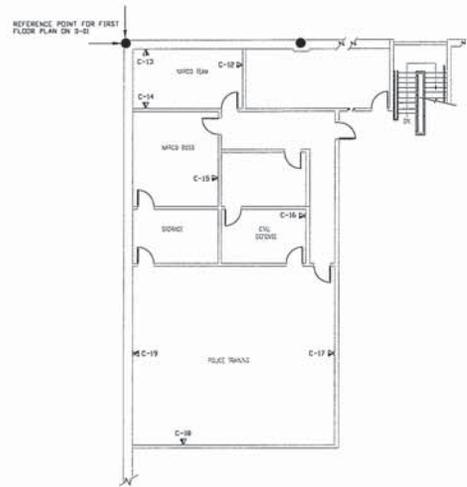
**D-01**

**GENERAL NOTES**

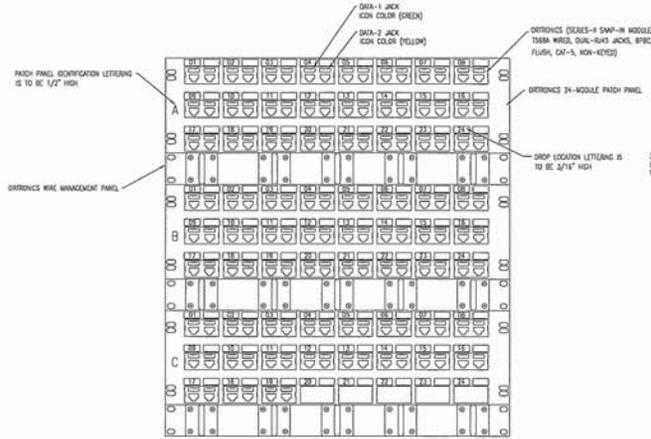
1. REMOVE 12" OF SURFACE RACEWAY ASSOCIATED WITH EACH DROP LOCATION. WALL BOARD ADAPTER IS TO BE USED ON ALL DROPS WITH FIGURABLE WALLS.
2. ALL PLYWOOD BACKBOARD IS TO BE SUPPLIED AND INSTALLED BY CABLING CONTRACTOR. ALL PLYWOOD TO BE 3/4" THICK AND PAINTED WITH 2 COATS OF FIRE RETARDANT PAINT AFTER INSTALLATION.
3. ALL FLOOR CORES AND WALL SLEEVES ARE TO BE INSTALLED AND FIRE STOPPED BY CHASING CONTRACTOR.



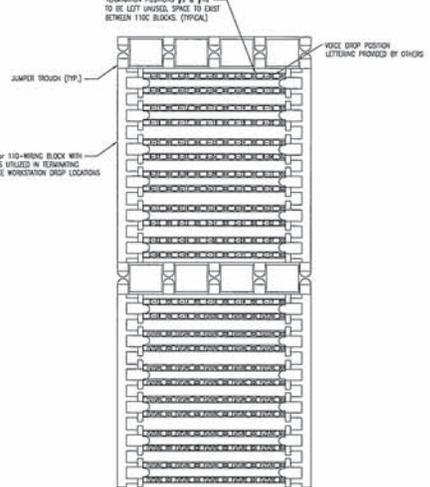
**DATA AND VOICE CABLING PLAN - GROUND**  
 NORTH SCALE: 3/32" = 1'-0"



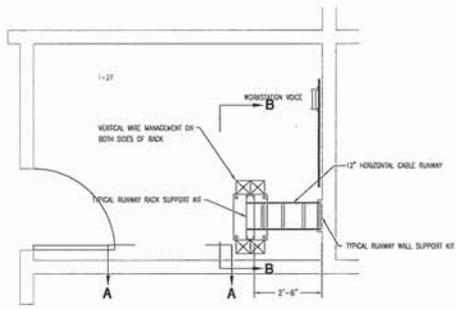
**DATA AND VOICE CABLING PLAN - SECOND**  
 NORTH SCALE: 1/8" = 1'-0"



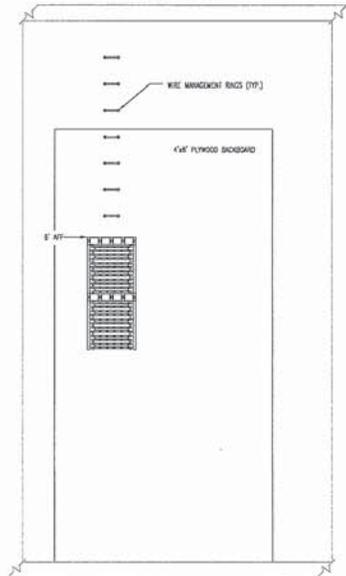
**2 DATA PATCH PANEL USAGE**  
 SCALE: NONE



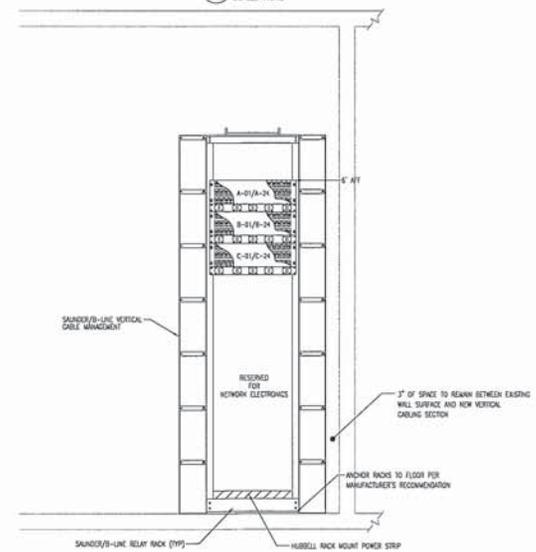
**3 VOICE 110-WIRING BLOCK USAGE**  
 SCALE: NONE



**1 WIRING CLOSET 1-27**  
 SCALE: 1/2" = 1'-0"



**ELEVATION 'A-A'**  
 WIRING CLOSET #100 WALL ELEVATION  
 SCALE: 1" = 1'-0"



**ELEVATION 'B-B'**  
 WIRING CLOSET #100 RACK ELEVATION  
 SCALE: 1" = 1'-0"

PROJECT NAME:  
 City of Bristol Connecticut  
 Bristol, Connecticut  
 Police Department

PROJECT NUMBER:  
 378-992-6

**SYMBOLS & ABBREVIATIONS**

- ⊗ TYPICAL DUAL DATA, DUAL VOICE DROP IN SURFACE MOUNT BOX WITH 12" OF RACEWAY
- AFF ABOVE FINISHED FLOOR
- E.C. ELECTRICAL CONTRACTOR
- MOF MAIN DISTRIBUTION FRAME

**LABELING LEGEND**

- ⊗ POSITION ON PATCH PANEL
- # A-11 PATCH PANEL IDENTIFICATION

REVISIONS:

NO.	DESCRIPTION	DATE
0	FOR INFORMATION	03-24-97
1	FOR BD / CONSTRUCTION	04-28-97
2	UPDATED FLOOR PLAN	10-24-97

DESCRIPTION:  
 POLICE DEPARTMENT  
 NETWORK INFRASTRUCTURE CABLING  
 SECOND FLOOR PLAN AND WIRING  
 CLOSET LAYOUT AND USAGE

DATE:  
 03-12-97

DRAWN BY:  
 SVT

DRAWING NUMBER:  
**D-02**



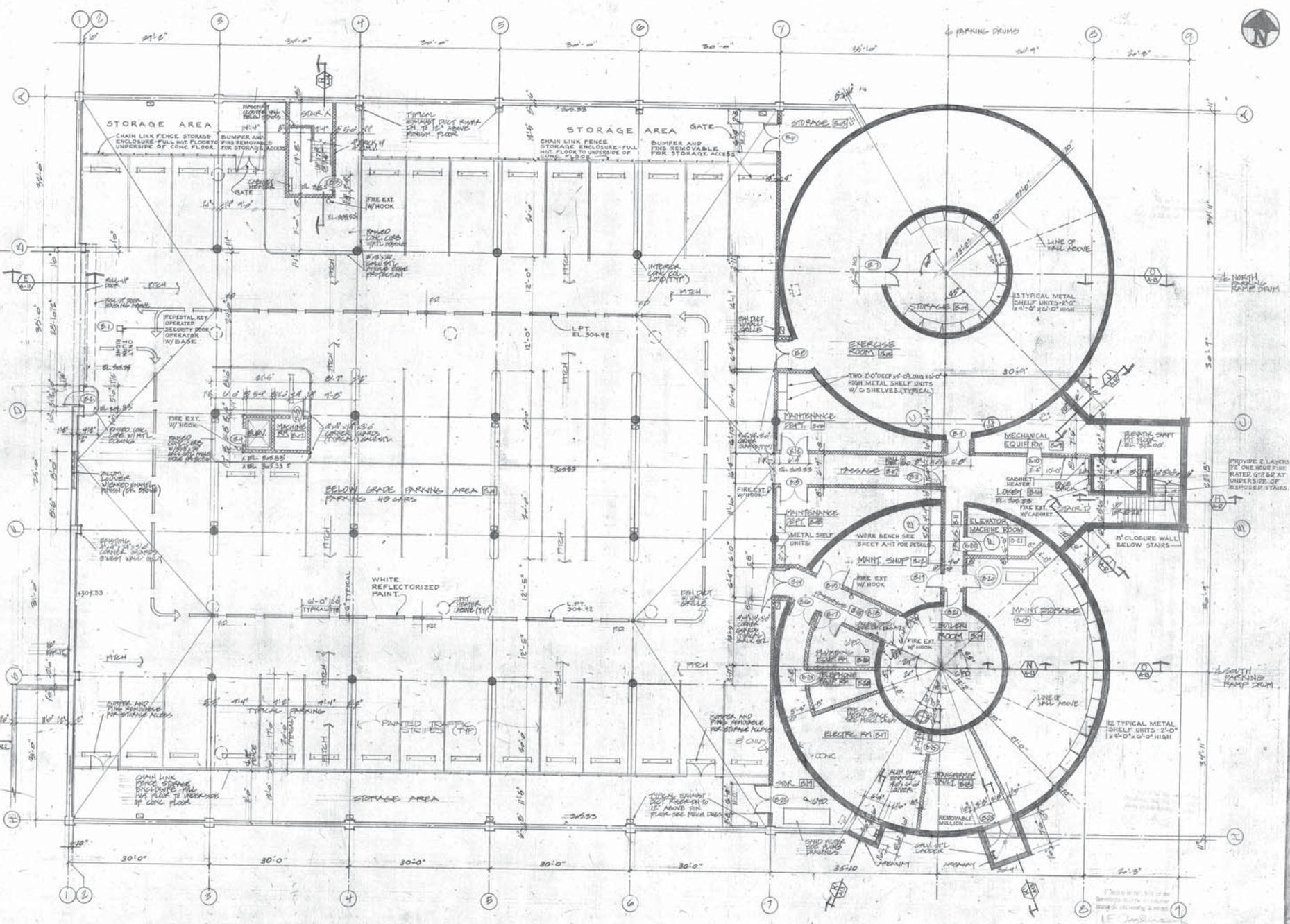


REVISIONS

David A. A. Architect  
1000 North 1st Street  
Bristol, VA 24201  
DATE: JUNE 7, 2005  
PROJECT: POLICE FACILITY

CITY OF BRISTOL MUNICIPAL FACILITY  
U.S. DEPARTMENT OF JUSTICE  
BRISTOL, VIRGINIA  
FACILITY LEVEL - POLICE PARKING

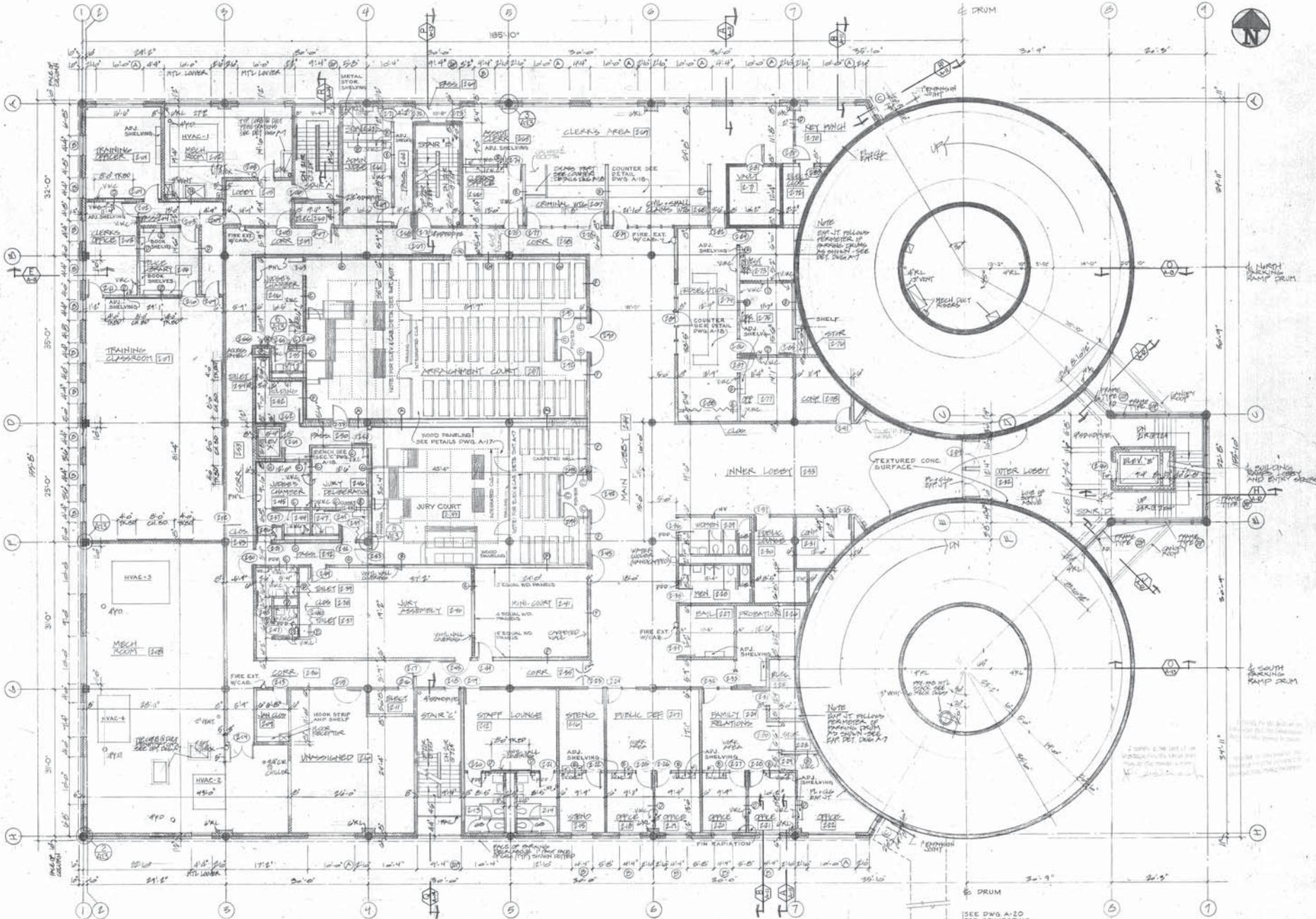
A-2



**NOTE:**  
 FOUNDATION WALLS AND PERIMETER  
 COLUMNS SHOWN THIS ARE  
 EXISTING WORK WAS PERFORMED  
 UNDER PREVIOUS CONTRACT - SEE  
 REFERENCE DIBS FOR LIMITS OF  
 WORK PERFORMED UNDER PREVIOUS CONTRACT.

PROVIDE 2 LAYERS  
 1/2" ONE HOUR FIRE  
 RATED GYPSUM  
 UNDER SIDE OF  
 STAIRS

SOUTH  
 PARKING  
 KAMP DROM



SEE DWG A-20 FOR CONNECTING BRIDGE DETAILS



EDWARD J. GALLI, A.S.A., ARCHITECT  
 66 FAYETTE, INC., ENGINEERS  
 200 W. MAIN STREET, BRISTOL, CT 06015

PROJ. NO. 177  
 REVISION 17-84  
 DRAWN BY: J. GALLI  
 CHECKED BY: E. J. GALLI  
 SCALE: AS SHOWN  
 DATE: 11-1-84

CITY OF BRISTOL MUNICIPAL FACILITY  
 DIST. DEPARTMENT OF CONFORMANCE BLDG. PROJ. NO. 81-51-00215  
 BRISTOL, CONNECTICUT

2ND LEVEL - COURT

A-4



NO.	DATE	REVISIONS

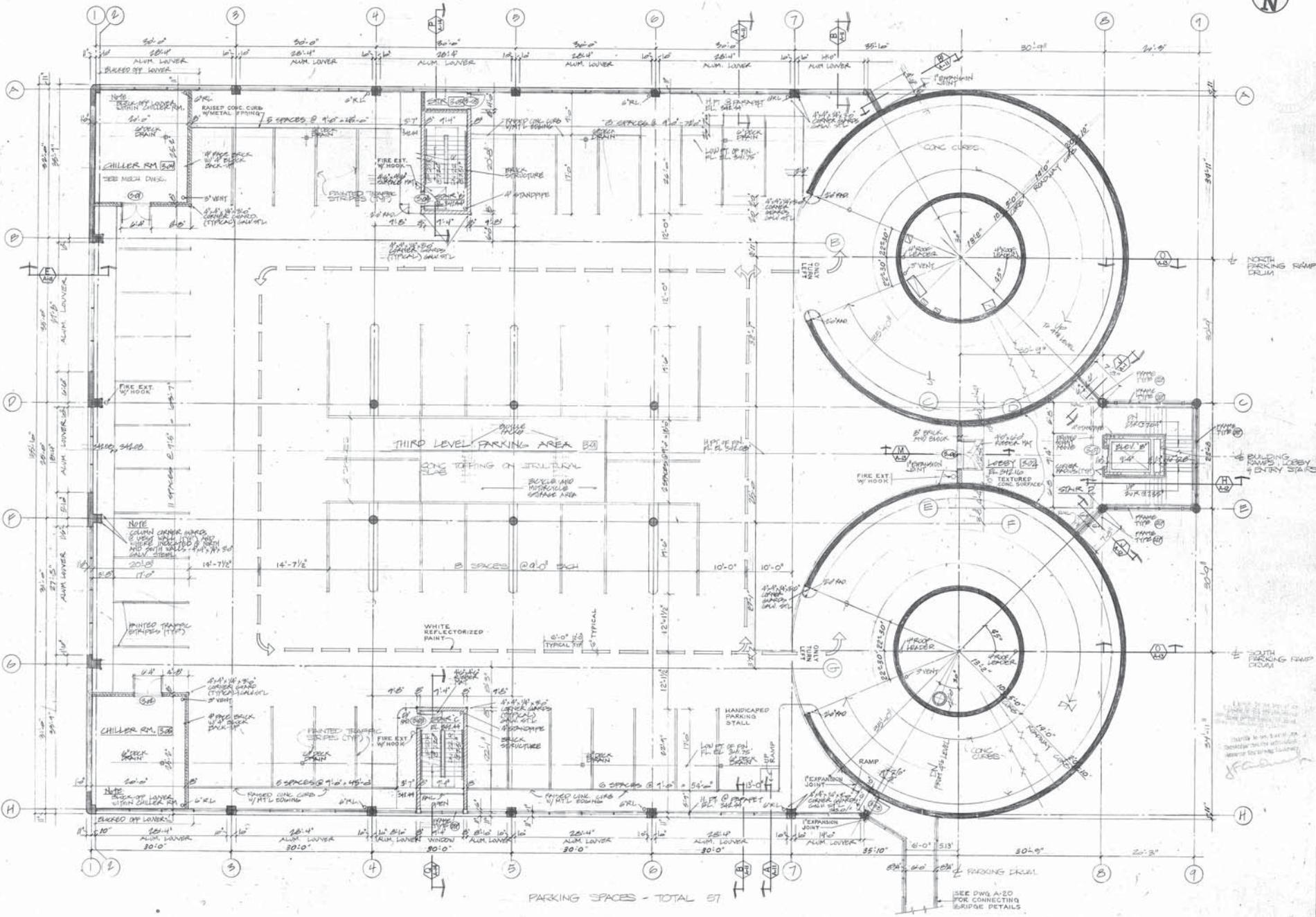
EUGENE J. GALLY, A.L.A., ARCHITECT  
 C.E. MACHURE, INC., ENGINEERS  
 NEW BRITAIN, CONNECTICUT

NO. 10000  
 EUGENE J. GALLY, A.L.A.  
 ARCHITECT  
 10000  
 EUGENE J. GALLY, A.L.A.  
 ARCHITECT  
 10000

CITY OF BRISTOL MUNICIPAL FACILITY  
 U.S. DEPARTMENT OF COMMERCE EDA PROJ. NO. 91-51-08215  
 BRISTOL, CONNECTICUT

3RD LEVEL - PARKING

A-5





REVISORS

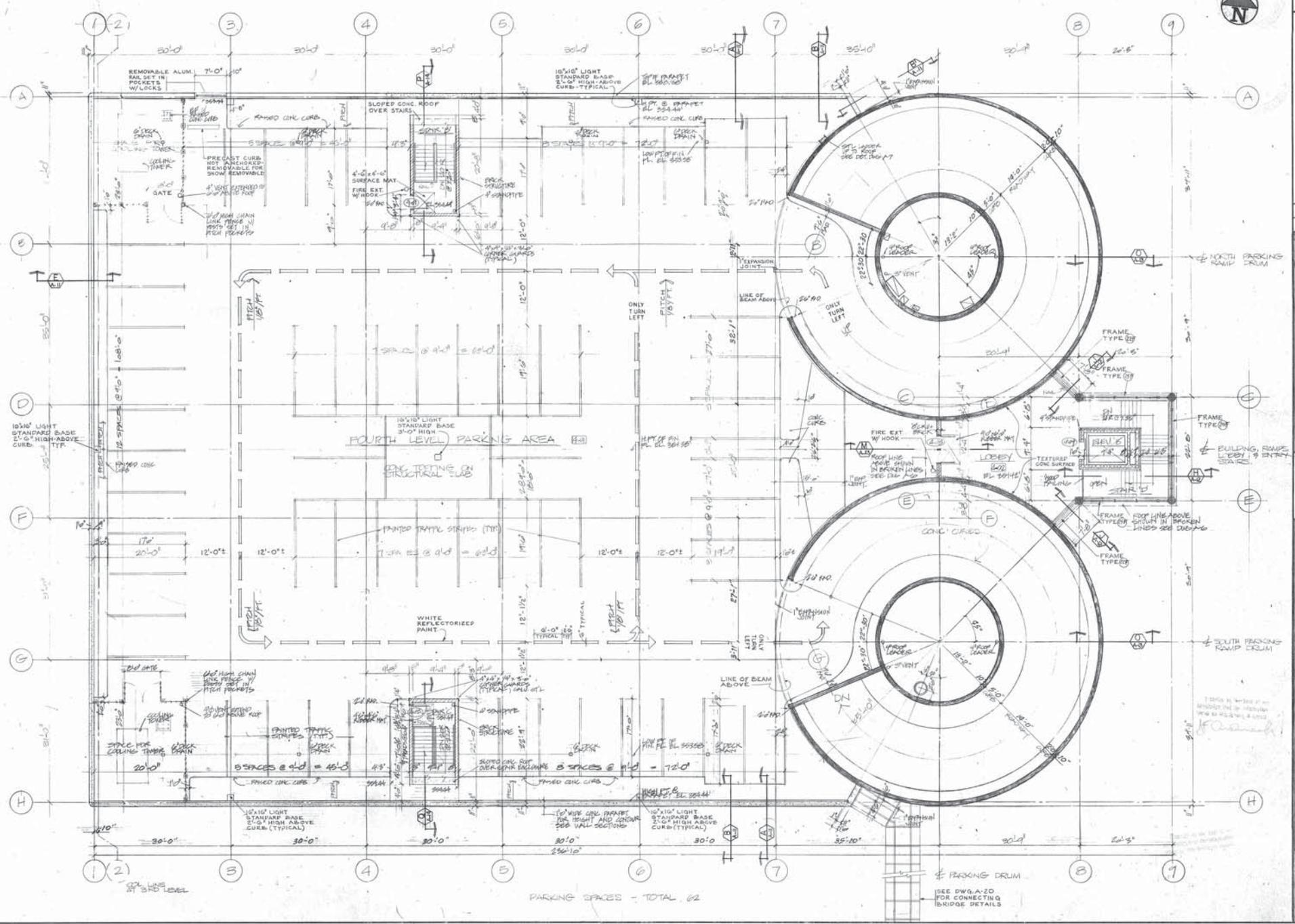
EUGENE J. BALL, A.E. ARCHITECT  
 157 MAIN ST., BRISTOL, CT 06033  
 NEW BRITAIN, CONNECTICUT

PROJECT NO. 10000  
 SECOND YEAR  
 DRAWN: RJK  
 SCALE: AS SHOWN  
 DATE: 10/18/77  
 PLOT NO. 10000

CITY OF BRISTOL MUNICIPAL FACILITY  
 U.S. DEPARTMENT OF COMMERCE EPA. PROJ. NO. 01-00216  
 BRISTOL, CONNECTICUT

4TH LEVEL - PARKING

A-6



PARKING SPACES - TOTAL 62

SEE DWG. A-20 FOR CONNECTING BRIDGE DETAILS