ROBOTICS FACILITY

PROJECT NO. 431.0

UNIVERSITY OF KENTUCKY

LEXINGTON, KENTUCKY

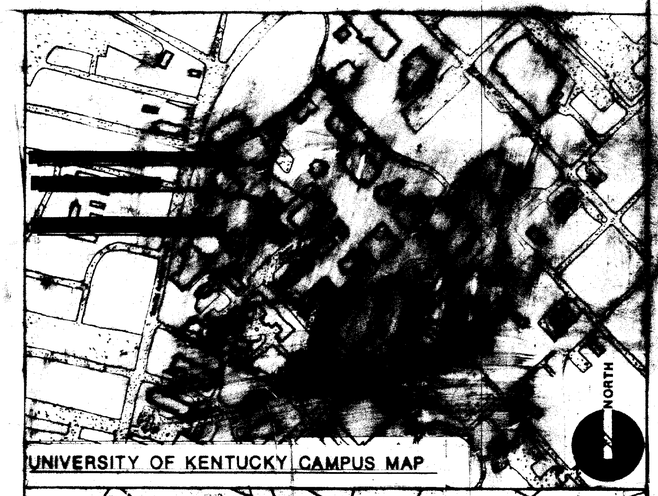
SHERMAN / CARTER / BARNHART — ARCHITECT
SUITE 1900 LEXINGTON FINANCIAL CENTER
250 WEST MAIN STREET
LEXINGTON, KENTUCKY 40507

MASON & HANGER ENGINEERING, INC — STRUCTURAL ENGINEER, CIVIL ENGINEER
1500 WEST MAIN STREET
LEXINGTON, KENTUCKY 40507

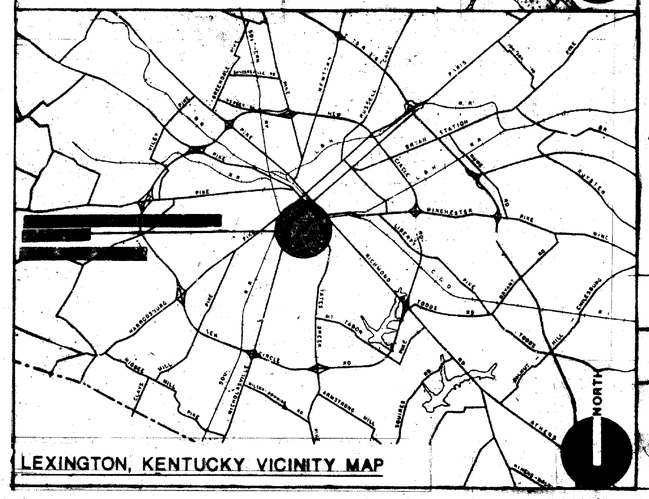
BELCAN CORPORATION — MECHANICAL ENGINEER, ELECTRICAL ENGINEER
10200 ANDERSON WAY
CINCINNATI, OHIO 45242

JAMES B. EVANS & ASSOCIATES — LANDSCAPE ARCHITECT
828 NORTH BROADWAY
LEXINGTON, KENTUCKY 40507

AS BUILT



UNIVERSITY OF KENTUCKY CAMPUS MAP



LEXINGTON, KENTUCKY VICINITY MAP

BUILDING [illegible] STICS

KENTUCKY [illegible]
COMPLIA [illegible]
US [illegible]
TE [illegible]
DU [illegible]
GR [illegible] SQ. FE

BUIL [illegible]

- SMOK [illegible]
- SPRIN [illegible]
- EM [illegible] ING WITH EME [illegible] RATOR
- OCCU [illegible] 575

BUILDING "R" VALUE:

Built-up Roof	24.14
Terrace Roof	17.2
Masonry Walls (Type A & B)	11.2
Metal Panel Walls	13.08
Curtainwall A & B	
Spandrels	13.64
Vision Glass	1.8

DATE

PROJECT

SET NO.

Cab # 32 Slot C-1 Document # 004882

ARCH-STRUCT.

CIVIL

C-1 SYMBOLS & LEGEND
C-2 TOPOGRAPHIC SURVEY
C-3 DEMOLITION PLAN
C-4 LAYOUT PLAN
C-5 GRADING PLAN
C-6 BUILDING CROSS-SECTIONS
C-7 SECTIONS & DETAILS
C-8 SECTIONS & DETAILS
C-9 EXTERIOR UTILITY PLAN
C-10 SANITARY & STORM PROVILES
C-11 CHILLED WATER DETAILS
C-12 STEAM DETAILS
C-13 CHILLED WATER & STEAM DETAILS
C-14 POWER & COMMUNICATION
C-15 POWER & COMMUNICATION
C-16 COMMUNICATION DETAILS
C-17 BORING LAYOUT
C-18 LOGS OF BORINGS
C-19 LOGS OF BORINGS
C-20 LOGS OF BORINGS
C-21 LOGS OF BORING

LANDSCAPING

L-1 LANDSCAPING PLAN
L-2 LANDSCAPING PLAN

STRUCTURAL

S-1 FOUNDATION PLAN
S-1A BASEMENT FLOOR PLAN
S-2 FIRST FLOOR FRAMING PLAN
S-3 SECOND FLOOR FRAMING PLAN
S-4 THIRD FLOOR FRAMING PLAN
S-5 FOURTH FLOOR FRAMING PLAN
S-6 FIFTH FLOOR FRAMING PLAN
S-7 ROOF FRAMING PLAN
S-8 FOUNDATION & COLUMN SCHEDULE
S-9 BEAM SCHEDULE
S-10 BEAM SCHEDULE
S-11 GIRDER SCHEDULE
S-12 FOUNDATION DETAILS
S-13 FOUNDATION DETAILS
S-14 FOUNDATION DETAILS
S-15 FOUNDATION DETAILS
S-16 SECTIONS & DETAILS
S-17 SECTIONS & DETAILS
S-18 SECTIONS & DETAILS
S-19 SECTIONS & DETAILS
S-20 SECTIONS & DETAILS
S-21 SECTIONS & DETAILS
S-22 SECTIONS & DETAILS
S-23 SECTIONS & DETAILS

ARCHITECTURAL

A-1 BASEMENT FLOOR PLAN
A-2 FIRST FLOOR PLAN
A-3 SECOND FLOOR PLAN
A-4 THIRD FLOOR PLAN
A-5 FOURTH FLOOR PLAN
A-6 FIFTH FLOOR PLAN
A-7 PENTHOUSE & ROOF PLANS
A-7A SECTION & DETAILS
A-8 BUILDING SECTION
A-9 BUILDING SECTION
A-10 BUILDING SECTION
A-11 BUILDING SECTIONS
A-12 BUILDING SECTION
A-13 SOUTH ELEVATION
A-14 WEST ELEVATION
A-15 NORTH ELEVATION
A-16 EAST ELEVATION
A-17 WALL SECTIONS & DETAILS
A-18 WALL SECTIONS & DETAILS
A-19 WALL SECTIONS & DETAILS
A-20 WALL SECTIONS & DETAILS
A-21 WALL SECTION & DETAILS
A-21A DETAILS
A-22 DOCK SECTION & DTAILS
A-23 PARTITION SCHEDULE & DETAILS
A-24 ENLARGED STAIR PLANS & DETAILS
A-25 ENLARGED PLANS & DETAILS
A-26 ENLARGED PLANS & DETAILS
A-27 TOILET ELEVATIONS & ENLARGED PLAN
A-28 ENLARGED PLANS & DETAILS
A-29 DETAILS
A-30 CASEWORK ELEVATIONS & DETAILS
A-31 ROOM FINISH SCHEDULE
A-32 ROOM FINISH SCHEDULE
A-33 DOOR & FRAME SCHEDULE
A-34 DOOR & FRAME ELEVATIONS & DETAILS
A-34A DETAILS
A-35 WINDOW ELEVATIONS & DETAILS
A-36 WINDOW ELEVATIONS & DETAILS
A-37 SECTIONS & DETAILS
A-38 PEDWAY & DETAILS
A-39 SECTIONS & DETAILS
A-40 BASEMENT REFL. CEIL. PLAN
A-41 FIRST FLOOR REFL. CEIL. PLAN
A-42 SECOND FLOOR REFL. CEIL. PLAN
A-43 THIRD FLOOR REFL. CEIL. PLAN
A-44 FOURTH FLOOR REFL. CEIL. PLAN
A-45 FIFTH FLOOR REFL. CEIL. PLAN

MECHANICAL

M-1 LEGEND
M-2 BASEMENT HVAC PLAN
M-3 FIRST FLOOR HVAC PLAN
M-4 SECOND FLOOR HVAC PLAN
M-5 THIRD FLOOR HVAC PLAN
M-6 FOURTH FLOOR HVAC PLAN
M-7 FIFTH FLOOR HVAC PLAN
M-8 PRNTHOUSE/ROOF HVAC PLAN
M-9 PART. PLANS HVAC & PIPING
M-10 PART. PLANS HVAC & PIPING
M-11 MECHANICAL DETAILS
M-12 MECHANICAL DETAILS
M-13 TEMPERATURE CONTROLS
M-14 BASEMENT PLUMB. & PIPING PLAN
M-15 FIRST FLOOR PLUMB. & PIPING PLAN
M-16 SECOND FLOOR PLUMB. & PIPING PLAN
M-17 THIRD FLOOR PLUMB. & PIPING PLAN
M-18 FOURTH FLOOR PLUMB. & PIPING PLAN
M-19 FIFTH FLOOR PLUMB. & PIPING PLAN
M-20 PENTHOUSE/ROOF PLUMB. & PIPING PLAN
M-21 SANITARY ISOMETRIC
M-22 DOMESTIC WATER ISOMETRIC
M-23 DETAIL
M-24 BASEMENT FIRE PROTECTION
M-25 FIRST FLOOR FIRE PROTECTION
M-26 SECOND FLOOR FIRE PROTECTION
M-27 THIRD FLOOR FIRE PROTECTION
M-28 FOURTH FLOOR FIRE PROTECTION
M-29 FIFTH FLOOR FIRE PROTECTION
M-30 PENTHOUSE/ROOF FIRE PROTECTION
M-31 SCHEDULES
M-32 SCHEDULES
M-33 SCHEDULES
M-34 SCHEDULES
M-35 SCHEDULES

ELECTRICAL

E-1 BASEMENT FLOOR LIGHTING PLAN
E-2 BASEMENT FLOOR POWER PLAN
E-3 FIRST FLOOR LIGHTING PLAN
E-4 FIRST FLOOR POWER PLAN
E-5 SECOND FLOOR LIGHTING PLAN
E-6 SECOND FLOOR POWER PLAN
E-7 THIRD FLOOR LIGHTING PLAN
E-8 THIRD FLOOR POWER PLAN
E-9 FOURTH FLOOR LIGHTING PLAN
E-10 FOURTH FLOOR POWER PLAN
E-11 FIFTH FLOOR LIGHTING PLAN
E-12 FIFTH FLOOR POWER PLAN
E-13 PENTHOUSE LIGHTING PLAN
E-14 PENTHOUSE POWER PLAN
E-15 ELECTRICAL CLOSETS PLAN
E-16 I.T.V. ROOM'S PLAN
E-17 ELECTRICAL DETAILS
E-18 GROUND RISER DIAGRAM
E-19 FIRE ALARM RISER DIAGRAM
E-20 ELECTRICAL DETAILS
E-21 ELECTRICAL DRAWING NOTES
E-22 LUMINARE SCHEDULE & SYMBOLS
E-23 SINGLE LINE DIAGRAM
E-24 M.C.C. RISERS & DIAGRAMS
E-25 M.C.C. RISERS & DIAGRAMS
E-26 PANEL SCHEDULES
E-27 PANEL SCHEDULES
E-28 PANEL SCHEDULES
E-29 TELEPHONE RENOVATION, ANDERSON HALL
E-30 PANEL SCHEDULES
E-18A LIGHTNING PROTECTION
E-18B LIGHTNING PROTECTION
E-31 RELOC SYSTEM 820 LEGEND
S-5R RELOC 2ND FLOOR
S-7R RELOC 3RD FLOOR
S-9R RELOC 4TH FLOOR
S-11R RELOC 5TH FLOOR
1251 I FIRE ALARM
1251 A FIRE ALARM
1251 B FIRE ALARM
1251 C FIRE ALARM
1251 D FIRE ALARM
1251 E FIRE ALARM
1251 F FIRE ALARM
1251 G FIRE ALARM
1251 H FIRE ALARM

AS BUILT
3-1-91

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

INDEX TO DRAWINGS

Herman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
LEXINGTON FINANCIAL CENTER - SUITE 1900 - 250 W. MAIN - LEXINGTON, KY 40507 - 606-254-1351

JOB NO. 8708
DATE 10-4-87
DRAWN
CHECKED
FILE NO. 431.0

REVISIONS

SHEET T2

Cab # 82 Slot A-1 Document # 004834

SYMBOLS & LEGEND

CIVIL/STRUCTURAL

EXISTING	NEW	
▭	▭	BUILDING
— W —	— W —	WATER
		FIRE HYDRANT
(V)		VALVE
— FW —	— FW —	FIRE WATER
— DW —	— DW —	DOMESTIC WATER
== SS ==	== SS ==	SANITARY SEWER
== SD ==	== SD ==	STORM DRAIN
OMH	OMH	MANHOLE
	CO	CLEANOUT
	T.E. 1016	TOP ELEVATION
	INV 1016	INVERT ELEVATION
	578.3	SPOT ELEVATION
		BENCH MARK
△		CONTROL MONUMENT
	— x —	CONSTRUCTION BARRICADE
	- - x - -	TEMPORARY CONSTRUCTION BARRICADE
		TREE
■		DROP INLET
		POLE LIGHT
		BRICK OR EXISTING MASONRY
		CONCRETE
		CAPILLARY WATER BARRIER (DRAINAGE FILL)
		EARTH
		ROCK

EXISTING	NEW	
— HPS —	— HPS —	HIGH PRESSURE STEAM
— PDR —	— PDR —	PUMP DISCHARGE RETURN
— CWS —	— CWS —	CHILLED WATER SUPPLY
— CWR —	— CWR —	CHILLED WATER RETURN
— G —	— G —	GAS
		GATE, FLANGED
		AIR ELIMINATOR
PA	PA	ANCHOR
WXD	WXD	EXPANSION LOOP
		FIRE DEPARTMENT CONNECTION
		CAP
		ELBOW
		ELBOW, TURNED UP
		ELBOW, TURNED DOWN
		REDUCER, CONCENTRIC
		TEE
— UT —	— UT —	UNDERGROUND COMMUNICATIONS DUCT
— T —	— T —	UNDERGROUND TELEPHONE CONDUIT
— EP —	— EP —	UNDERGROUND ELECTRICAL PRIMARY
— E —	— E —	UNDERGROUND ELECTRICAL
		UTILITY MARKER
		SWITCH/FUSE
		CIRCUIT BREAKER
		DRIVEN GROUND ROD
	(U-81)	ELECTRICAL MANHOLE NUMBER U-81

ABBREVIATIONS

"	INCH	HORIZ.	HORIZONTAL
#	NUMBER, POUND	IN.	INCH
'	FEET	JT.	JOINT
@	AT	L	ANGLE
ALUM.	ALUMINUM	LG.	LONG
ARCH.	ARCHITECTURAL	MAT'L	MATERIAL
BLDG.	BUILDING	MIN.	MINIMUM
BM.	BEAM	NO.	NUMBER
B.O.FTG.	BOTTOM OF FOOTING	ℙ	PLATE
BRG.	BEARING	R.	RADIUS
B.S.	BRICK SEAT	RAD.	RADIUS
℄	CENTERLINE	REINF.	REINFORCING
CLR., CL.	CLEAR	SCHED.	SCHEDULE
COL.	COLUMN	SHT.	SHEET
COL'S	COLUMNS	SIM.	SIMILAR
CONC.	CONCRETE	SPA.	SPACE(S)
CONT.	CONTINUOUS	SQ.	SQUARE
CONST.	CONSTRUCTION	STL.	STEEL
DIA.	DIAMETER	T.C.	TOP OF CONCRETE
DIM.	DIMENSION	TEMP.	TEMPERATURE
EA.	EACH	TYP.	TYPICAL
E.F.	EACH FACE	W.W.F.	WELD WIRE FABRIC
EL.	ELEVATION	W/	WITH
ELEV.	ELEVATION		
E.W.	EACH WAY		
EXIST.	EXISTING		
EXP.	EXPANSION		
EXPL	EXPLOSION		
F.E.	BOTTOM OF FOOTING ELEVATION		
FIN.	FINISH		
FL.	FLOOR		
FLEX.	FLEXIBLE		
FT.	FEET		
FTG.	FOOTING		
F.V.	FIELD VERIFY		

ABBREVIATIONS & SYMBOLS SHOWN ARE STANDARDS AND INCLUDE THOSE USED ON THIS PROJECT. NOT ALL ABBREVIATIONS & SYMBOLS SHOWN ARE USED ON THIS PROJECT.

GENERAL NOTES

THE CONTRACT DRAWINGS SHOW THE APPROXIMATE LOCATION OF EXISTING AND NEW SUBSURFACE UTILITY LINES. THESE LINES HAVE BEEN IDENTIFIED AND LOCATED AS ACCURATELY AS POSSIBLE USING AVAILABLE INFORMATION; THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ACTUAL LOCATIONS. IF ANY CHARTED, UNCHARTED OR MISLOCATED UTILITY SERVICE IS INTERRUPTED FOR ANY REASON, THE CONTRACTOR WILL WORK CONTINUOUSLY TO RESTORE SERVICE TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.

SHOULD THE UTILITIES REQUIRE RELOCATION OR REROUTING NOT SHOWN OR INDICATED TO BE RELOCATED OR REROUTED, CONTACT AND COOPERATE WITH THE OWNER TO MAKE THE REQUIRED ADJUSTMENTS AT AN EQUITABLE CHANGE IN THE CONTRACT PRICE.

UTILITY MARKERS: THE CONTRACTOR SHALL FURNISH AND INSTALL UTILITY MARKERS FOR ALL BURIED PIPE LINES AND DUCT BANKS AT EACH BUILDING ENTRANCE, AT EACH BEND, AND AT EACH ROAD CROSSING. THE MARKERS SHALL BE FABRICATED AND INSTALLED AS SHOWN ON SHEET C-12. THE EXACT WORDING ON THE BRASS PLATE SHALL BE COORDINATED WITH THE ENGINEER BEFORE FABRICATION.

CONTRACTOR SHALL MAINTAIN FIRE TRUCK ACCESS WEST OF McVEY HALL TO THE JOURNALISM, OLD MINING LAB, AND THE QUADRANGLE BUILDINGS AT ALL TIMES.

RECORD PRINTS

THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKINGS, PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND WHICH THE ENGINEER CONSIDERS SIGNIFICANT.

MASON & HANGER ENGINEERING INC.
ARCHITECT - ENGINEERS
LEXINGTON, KENTUCKY

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
10-19-87

SYMBOLS & LEGEND

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606 254 1351

JOB NO.	2046
DATE	10-19-87
DRAWN	DAH
CHECKED	TOA
FILE NO.	431.0

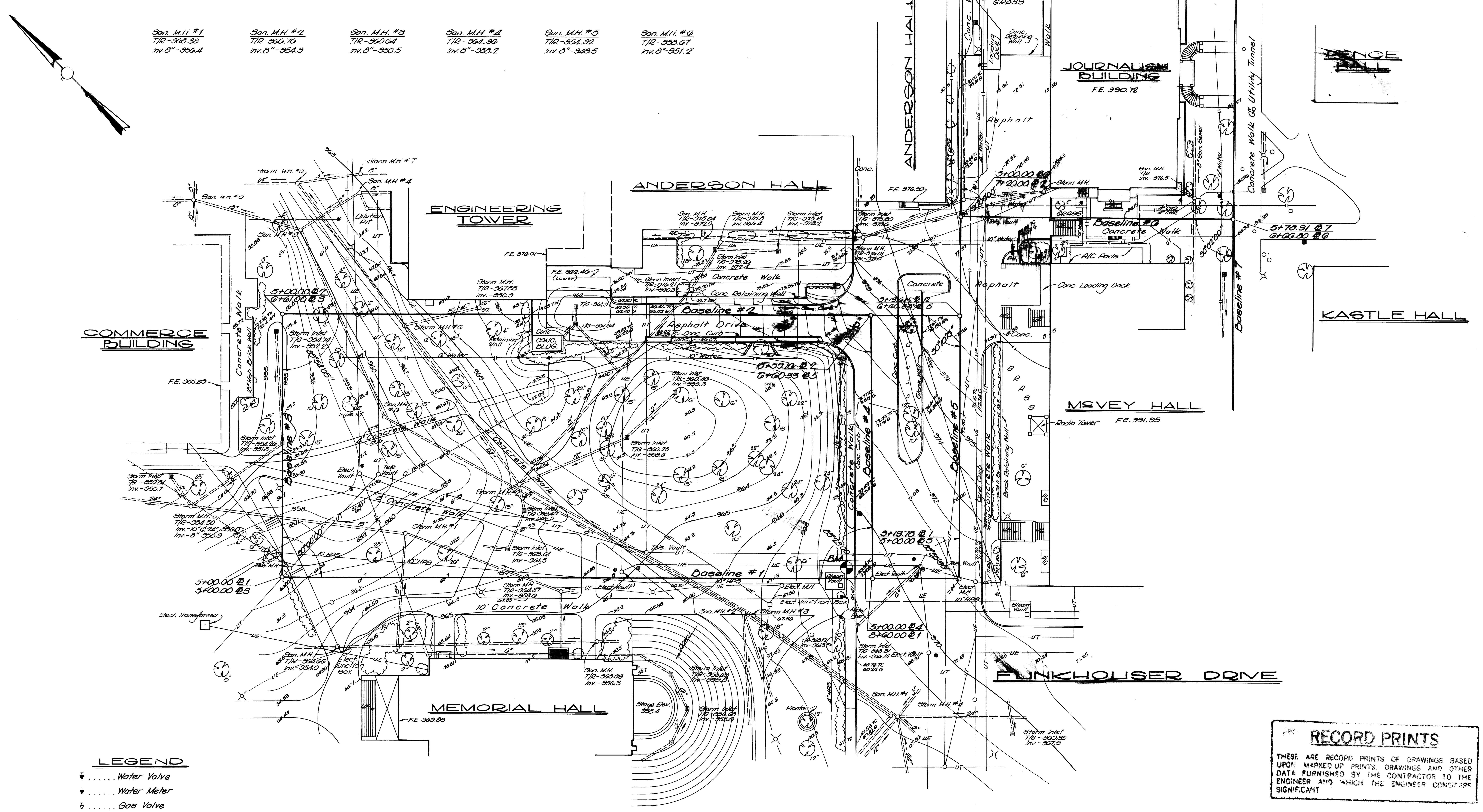
REVISIONS

SHEET
C-1

Cab # 82 Slot A-1 Document # 004835

Storm M.H. #1	Storm M.H. #2	Storm M.H. #3	Storm M.H. #4	Storm M.H. #5	Storm M.H. #6	Storm M.H. #7
T/R - 960.75	T/R - 964.56	T/R - 966.91	T/R - 968.39	T/R - 960.61	T/R - 963.03	T/R - 965.38
Inv. 8" - 956.2	Inv. 12" - 955.8	Inv. 24" - 953.4	Inv. 12" - 956.9	Inv. 24" - 948.2	Inv. 24" - 949.8	Inv. - 958.8
Inv. 12" - 953.0	Inv. 24" - 951.1		Inv. 24" - 955.1	Inv. 8" - 957.8		
Inv. 15" - 952.4			Inv. 24" - 962.3			

San. M.H. #1	San. M.H. #2	San. M.H. #3	San. M.H. #4	San. M.H. #5	San. M.H. #6
T/R - 968.38	T/R - 966.76	T/R - 960.64	T/R - 964.96	T/R - 954.92	T/R - 958.67
Inv. 8" - 956.4	Inv. 8" - 954.9	Inv. 8" - 950.5	Inv. 8" - 958.2	Inv. 8" - 949.5	Inv. 8" - 951.2



LEGEND

- Water Valve
- Water Meter
- Gas Valve
- Gas Meter
- Light Pole
- Fire Hydrant
- Storm Water Inlet
- Vault Vents

BM - Chisled Square N.E. Corner Of Steam Vault Elev. 971.28'

Elevation Datum is Based on a U.S.C. & G.S. Standard Benchmark Located in Front of the U.K. Administration Building and Having an Elevation of 975.008

RECORD PRINTS

THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED-UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND WHICH THE ENGINEER CONSIDERS SIGNIFICANT.

STATE OF KENTUCKY
WESLEY B. WITT
2107
REGISTERED
LAND SURVEYOR

TOPOGRAPHIC SURVEY
BY:
WITT & ASSOCIATES, INC. - LEXINGTON, KY.
AUGUST 1987
1" = 30'

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by [signature] director - design and construction division
10.19.87 date

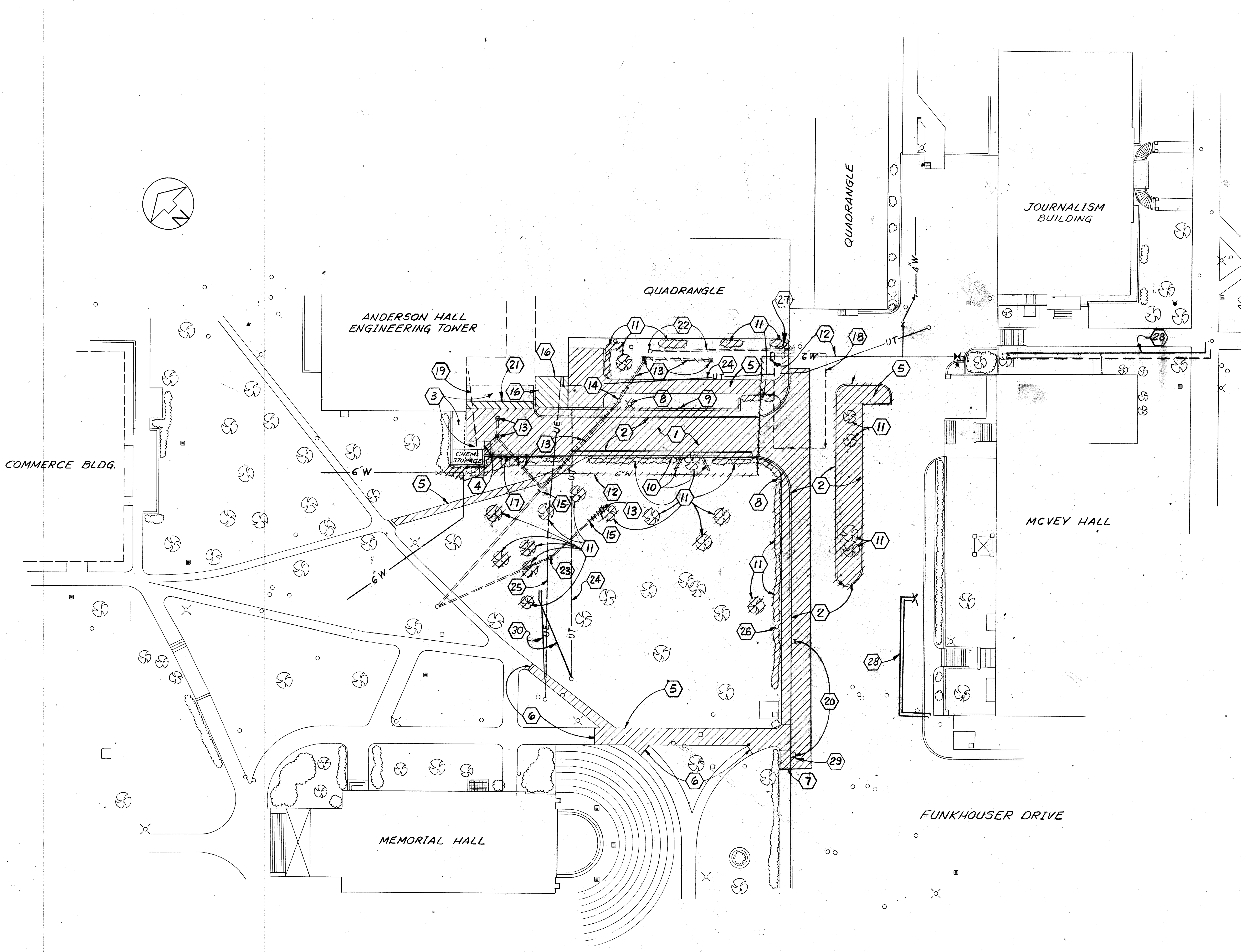
Sherman · Carter · Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-1351

JOB NO.	8706
DATE	
DRAWN	
CHECKED	CEB
FILE NO.	431.0

REVISIONS

SHEET
G-1

Cab #	Slot	Document #
82	A-1	004836



DEMOLITION PLAN

SCALE: 1"=30'

RECORD PRINTS

THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED-UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND WHICH THE ENGINEER CONSIDERS SIGNIFICANT

DEMOLITION NOTES

1. REMOVE BITUMINOUS ASPHALT PAVEMENT AND BASE.
2. REMOVE CURB AND GUTTER.
3. EXISTING CONCRETE SLAB TO REMAIN.
4. SAWCUT CONCRETE PAVEMENT FLUSH WITH FACE OF CHEMICAL STORAGE BUILDING AND REMOVE THIS SECTION OF CONCRETE SLAB AND ONE GUARD POST.
5. REMOVE CONCRETE SIDEWALK.
6. SAWCUT EXISTING CONCRETE SIDEWALK, FULL DEPTH, OR REMOVE BACK TO FIRST EXPANSION JOINT.
7. SAWCUT EXISTING CONCRETE SIDEWALK AND CURB.
8. REMOVE CONCRETE LIGHTPOLE AND FOUNDATION. TURN LIGHT POLE OVER TO OWNER.
9. REMOVE RETAINING WALL AND FOUNDATION.
10. REMOVE CONCRETE WALL AND FOUNDATION.
11. REMOVE TREES AND SHRUBS AS SHOWN.
12. CAP EXISTING 6 INCH WATER LINE WEST OF WATER METER SERVICE LINE TO QUADRANGLE. BETWEEN THIS POINT AND EXISTING VALVE SOUTH OF CHEMICAL STORAGE BUILDING, REMOVE EXISTING WATER LINE AS REQUIRED FOR NEW CONSTRUCTION.
13. REMOVE STORM SEWER AND INLETS AS REQUIRED FOR BUILDING CONSTRUCTION.
14. REMOVE STORM SEWER MANHOLE.
15. SAWCUT EXISTING STORM SEWER, PLUG END WITH 2 FEET OF CONCRETE AND ABANDON.
16. REMOVE EXISTING CONCRETE SLAB AND WALLS, SEE STRUCTURAL DRAWINGS FOR DIMENSIONS.
17. REMOVE GROUNDING MAT FOR ENGINEERING TOWER, AFTER NEW MAT HAS BEEN INSTALLED. SEE SHEET C-9.
18. POSSIBLE BELOW GRADE AUTO SHOP FOUNDATION, REMOVE IF ENCOUNTERED.
19. ABANDONED 6 INCH WATER LINE, REMOVE IF ENCOUNTERED.
20. REMOVE CURB BOX INLET, LEAVE PIPE UNDAMAGED FOR FUTURE CONNECTION. SEE SHEET C-4 FOR CONTINUATION.
21. SAWCUT AND REMOVE 5 FT. OF CONCRETE SLAB. FINISHED EDGE TO ALIGN WITH CONCRETE OVERHANG ABOVE.
22. MANHOLE AND STORM SEWER TO REMAIN.
23. REMOVE EXISTING CATCH BASIN A MINIMUM 1 FOOT BELOW GRADE. SEAL STORM SEWER AS IN 15. COVER WITH EARTH.
24. EXISTING TELEPHONE - MAINTAIN DUCTBANK UNTIL NEW DUCTBANK IS INSTALLED WITH CABLE. COORDINATE WITH OWNER AND ABANDON DUCTBANK WHEN ALL RELOCATION OF CABLES HAS BEEN COMPLETED. CABLE WILL BE CHANGED OUT AS SOON AS POSSIBLE AFTER NEW CONDUIT IS INSTALLED. NO CABLE WILL BE CHANGED OUT BETWEEN CHRISTMAS AND NEW YEARS.
25. EXISTING PRIMARY 12.47 KV ELECTRIC DUCTBANK - MAINTAIN DUCTBANK UNTIL NEW DUCTBANK IS INSTALLED AND ANDERSON HALL ENERGIZED FROM NEW INSTALLATION. COORDINATE OUTAGES, ETC., WITH OWNER AND ABANDON DUCTBANK WHEN NEW IS COMPLETELY INSTALLED AND ENERGIZED.
26. REMOVE EXISTING POLE LIGHT AND FOUNDATION. TURN LIGHT POLE OVER TO OWNER. VERIFY CIRCUITRY; AND IF CIRCUIT EXTENDS BEYOND THIS POINT, REFEED FROM SOURCE BY SAME SIZE WIRE AND CONDUIT.
27. EXISTING WATER METER MANHOLE TO REMAIN.
28. FOR DEMOLITION ASSOCIATED WITH CHILLED WATER OR STEAM PIPELINE CONSTRUCTION, SEE SHEETS C-11 THRU C-13.
29. EXISTING STEAM VENT, LEAVE UNDISTURBED FOR FUTURE CONNECTION.
30. FOR DEMOLITION ASSOCIATED WITH ELECTRIC POWER AND COMMUNICATION DUCTBANK CONSTRUCTION, SEE SHEETS C-14 THRU C-16.

MASON & HANGER ENGINEERING INC.
ARCHITECT • ENGINEERS
LEXINGTON, KENTUCKY

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
10-19-87

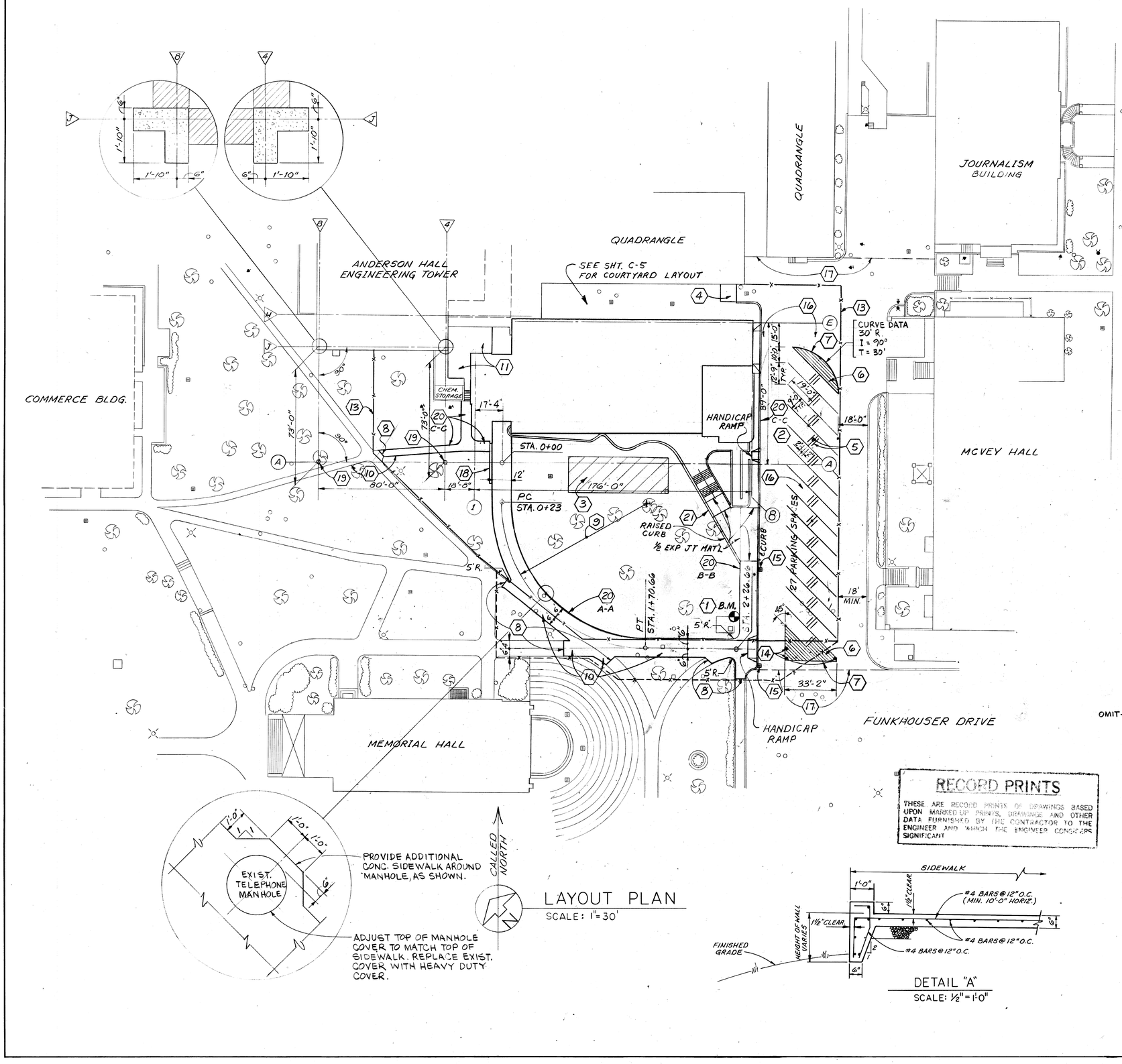
DEMOLITION PLAN

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE

JOB NO.	2046
DATE	10-19-87
DRAWN	PG
CHECKED	TOA
FILE NO.	431.0

REVISIONS

SHEET
C-3



LAYOUT PLAN
SCALE: 1" = 30'

DETAIL "A"
SCALE: ½" = 1'-0"

RECORD PRINTS
THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND WHICH THE ENGINEER CONSIDERS SIGNIFICANT

SITE CONSTRUCTION NOTES

1. B.M. - CHISLED SQUARE N.E. CORNER OF STEAM VAULT. ELEVATION = 971.28
2. STAGING AND STORAGE AREA SHALL BE IN THAT AREA OF EXISTING PAVEMENT EAST OF THE NEW BUILDING AND WITHIN THE CONSTRUCTION BARRICADE FENCE. IF ASTECC FACILITY IS BUILT, THEN THE STAGING AND STORAGE AREA SHALL BE REMOVED.
3. TOPSOIL STOCKPILE FROM SITE DEVELOPMENT OPERATION. FINAL LOCATION OF STOCKPILE IS TO BE COORDINATED WITH THE DESIGN AND CONSTRUCTION DIVISION, CONSTRUCTION ADMINISTRATOR. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL AND MAINTAIN EROSION CONTROL.
4. DUMPSTER PAD - SEE SHEET A-2.
5. FOR WHEEL STOP DETAIL SEE SHEET C-8.
6. FOUR (4) INCH WIDE YELLOW PAINT STRIPES, TO BE EIGHTEEN (18) INCHES ON CENTERS.
7. EDGE OF PAINT STRIP.
8. PLACE ONE-HALF (1/2) INCH EXPANSION JOINT BETWEEN EXISTING SIDEWALK AND NEW CONSTRUCTION.
9. RADIUS OF CURVE TO CENTERLINE OF DRIVE = 90 FEET. MODIFY RADIUS OR END STATIONS AS REQUIRED TO MATCH EXISTING SIDEWALK.
10. ALIGN NEW CONSTRUCTION WITH EXISTING SIDEWALK EDGE.
11. SIX (6) INCH CONCRETE SLAB WITH 6 x 6 - W2.9 x W2.9 WWF ON 6" SUBBASE. PROVIDE 1/2 INCH EXPANSION JOINT AROUND ALL OUTSIDE EDGES. ELEVATION OF NEW CONSTRUCTION AT OUTSIDE EDGES SHALL MATCH EXISTING, SLOPE TO DRAIN.

OMIT → 12. ~~LOCATION OF SURFACE INLET AND PIPING TO BE SUCH THAT INSTALLATION WILL CAUSE MINIMUM DISTURBANCE TO THE EXISTING TREE. SEE SHEET C-7 FOR SURFACE INLET DETAILS.~~

13. CONSTRUCTION BARRICADE FENCE, SEE SPECIAL CONDITIONS.
14. EXISTING GUARD POST TO REMAIN IN PLACE.
15. SURFACE INLET (DETAIL SHEET C-7) TO CONNECT TO EXISTING STORM DRAIN AT LOCATION OF REMOVED SURFACE INLET WITH EIGHT (8) INCH DUCTILE IRON PIPE. SEE DEMOLITION PLAN FOR LOCATION OF EXISTING SURFACE INLET TO BE REMOVED. RECONNECT STEAM VENT AS REQUIRED TO NEW SURFACE INLET.
16. FOR UNPAVED AREA, CONSTRUCT AGGREGATE BASE AND BITUMINOUS BASE COARSES AS SHOWN ON DETAIL SHEET C-7. FOR ALL DISTURBED PAVED AREAS PROVIDE A MINIMUM AGGREGATE BASE AND BITUMINOUS BASE COARSES AS SHOWN IN DETAIL ON SHEET C-7. IN BOTH OF THE ABOVE DESCRIBED CASES, THE TOP OUTSIDE EDGE OF THE BITUMINOUS BASE COARSE IS TO MATCH THE SURFACE OF THE ADJACENT PAVEMENT.
17. LIMITS OF PAVEMENT TO RECEIVE NEW SURFACE COARSE. SEE NOTE 16. ELEVATION OF NEW SURFACE COARSE TO MATCH EXISTING SURFACE. ADJUST ALL MANHOLE COVERS AND SURFACE INLETS TO BE FLUSH WITH NEW SURFACE COARSE ELEVATION AS REQUIRED.
18. SEE SHEET C-7 FOR RETAINING WALL DETAILS.
19. EXISTING CONCRETE MARKERS.
20. SIDEWALKS. SEE SHEET C-7 FOR DETAILS.
21. TURN DOWN WEST EDGE OF SIDEWALK TO FORM VERTICAL WALL IN ACCORDANCE WITH DETAIL "A". VERTICAL WALL SHALL EXTEND 20 FEET SOUTHWEST FROM END OF RETAINING WALL, WITH 1/2" EXPANSION JOINT IN BETWEEN. HEIGHT OF WALL SHALL VARY LINEARLY FROM 2'-6" ADJACENT TO RETAINING WALL DOWN TO 6" AT OPPOSITE END.

MASON & HANGER ENGINEERING INC.
ARCHITECT • ENGINEERS
LEXINGTON, KENTUCKY

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by [signature] director - design and construction division
10.19.87 date

LAYOUT PLAN

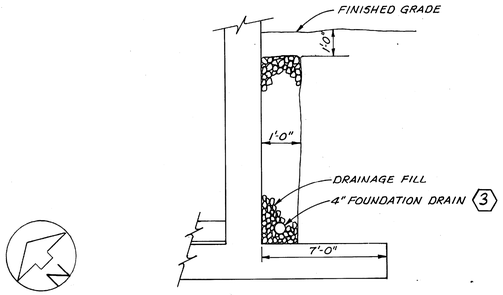
Herman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1000 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606/254-1551

JOB NO 2046
DATE 10-19-87
DRAWN PG
CHECKED TOA
FILE NO. 431.0

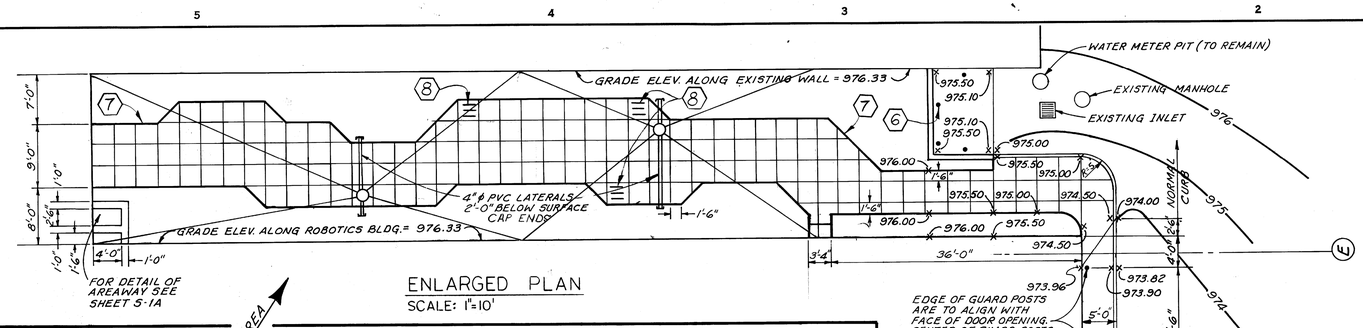
REVISIONS

SHEET
C-4

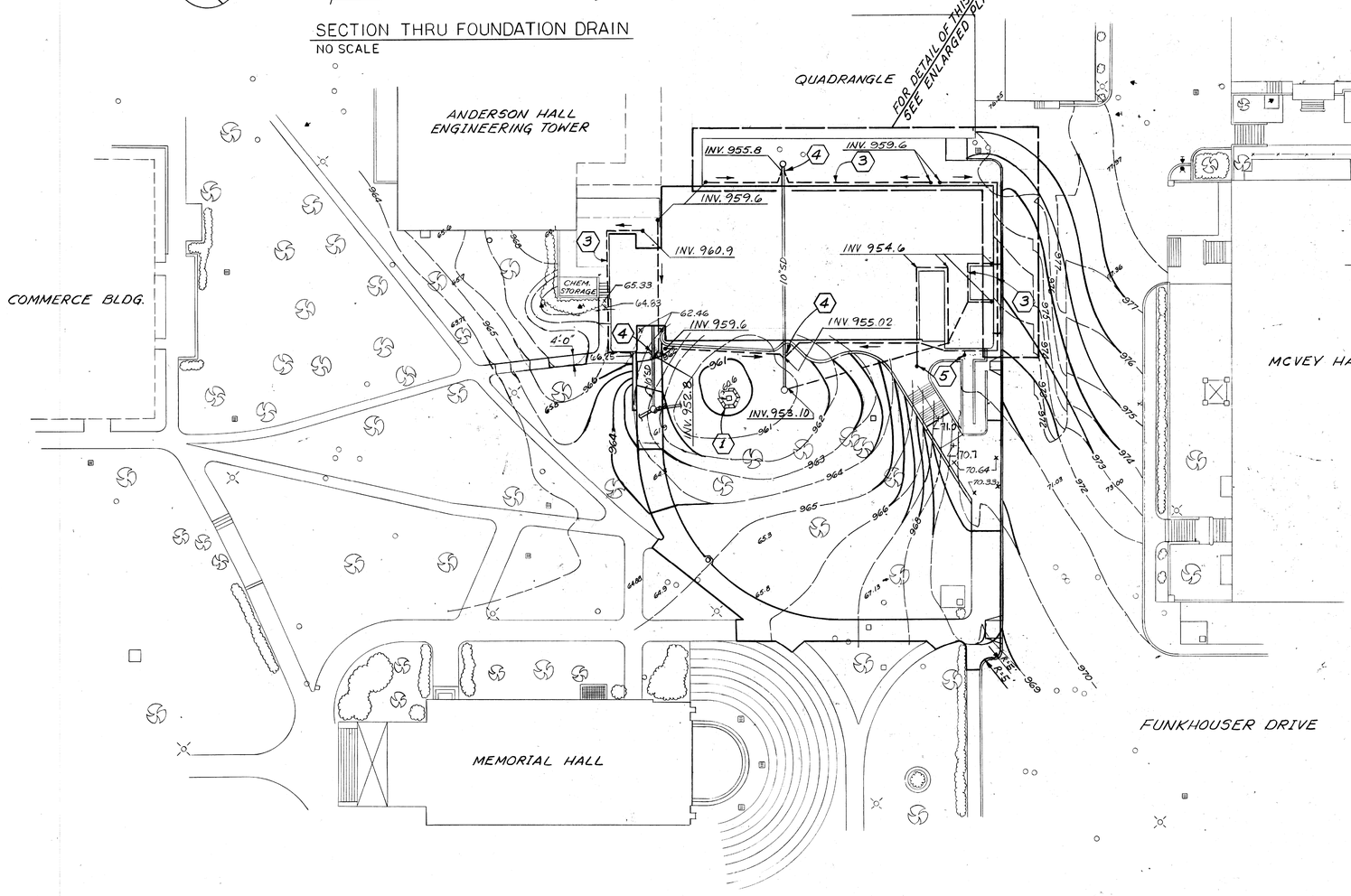
Cab # 82 Slot A-1 Document # 004838



SECTION THRU FOUNDATION DRAIN
NO SCALE



ENLARGED PLAN
SCALE: 1"=10'



GRADING PLAN & FOUNDATION DRAIN PLAN
SCALE: 1"= 30'

GRADING NOTES

1. THE CONTRACTOR SHALL USE APPROPRIATE MEASURES TO PREVENT EROSION AND TRANSPORT OF SEDIMENT TO SURFACE DRAINS. THE CONTRACTOR SHALL USE HAY BALES, SILT BARRIERS OR OTHER APPROPRIATE MEASURES TO MITIGATE ADVERSE IMPACTS TO EXISTING SURFACE WATER QUALITY.
2. ALL SPOT ELEVATIONS GIVEN ARE TO FINAL GRADE.
3. FOUNDATION DRAIN PIPE SHALL BE FOUR (4) INCH PERFORATED PIPE. LAY PIPE ON A ONE (1) PERCENT MINIMUM GRADE.
4. CONNECTION OF FOUNDATION DRAIN PIPE INTO STORM DRAINAGE SYSTEM.
5. CONNECT TWO AREA DRAINS TO FOUNDATION DRAINS WITH 4" DIAMETER PLASTIC PIPE.
6. 6" GUARD POSTS. SEE SHEET C-8 FOR DETAILS.
7. CONCRETE WALKWAY. 6" CONCRETE SLAB WITH 4 X 4 - W2.9 X W2.9 ON 4" SUBBASE. SCORING PATTERN ON 3 FOOT GRIDS. 1/2" EXPANSION JOINTS TO BE AT MAXIMUM 30 FOOT SPACES.
8. PROVIDE PRECAST CONCRETE BIKERACKS IN ACCORDANCE WITH OWNER STANDARDS.

RECORD PRINTS
THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND WHICH HE INDICATES CORRECT OR SIGNIFICANT

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by [signature] director - design and construction division 10-19-87 date

GRADING PLAN

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1000 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • (606) 254-1551

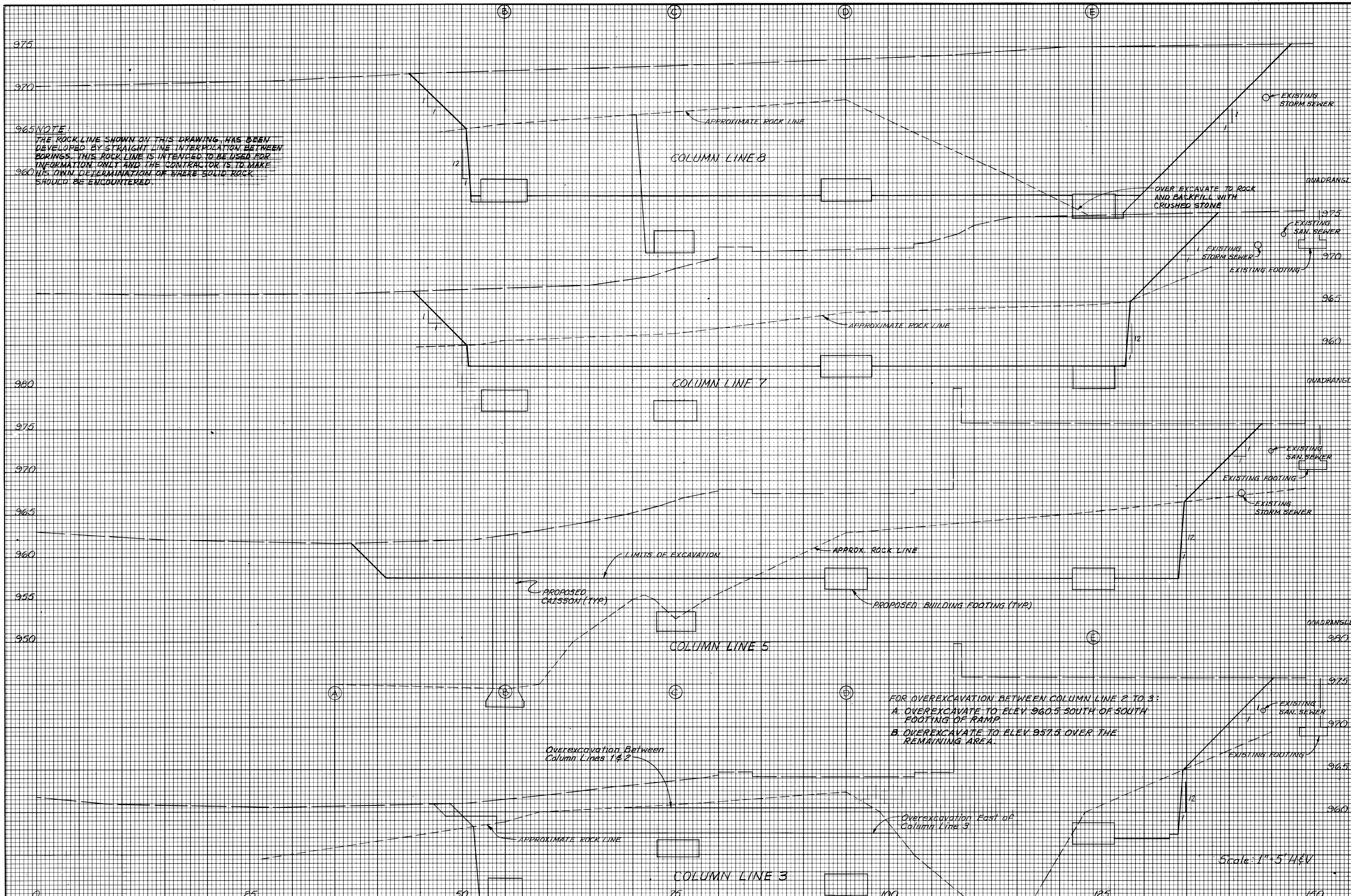
JOB NO. 2046
DATE 10-19-87
DRAWN PG
CHECKED TOA
FILE NO. 431.0

REVISIONS

SHEET C-5

Cab# 82 Slot A-1 Document# 004839

MASON & HANGER ENGINEERING INC.
ARCHITECT • ENGINEERS
LEXINGTON, KENTUCKY



NOTE:
THE ROCK LINE SHOWN ON THIS DRAWING, HAS BEEN DEVELOPED BY STRAIGHT LINE INTERPOLATION BETWEEN BORINGS. THIS ROCK LINE IS INTENDED TO BE USED FOR INFORMATION ONLY AND THE CONTRACTOR IS TO MAKE HIS OWN DETERMINATION OF WHERE SOLID ROCK SHOULD BE ENCOUNTERED.
COLUMN LINE 8
APPROXIMATE ROCK LINE
EXISTING STORM SEWER
OVER EXCAVATE TO ROCK AND BACKFILL WITH CRUSHED STONE
QUADRANGLE
EXISTING SAN. SEWER
EXISTING FOOTING
COLUMN LINE 7
COLUMN LINE 5
LIMITS OF EXCAVATION
APPROX. ROCK LINE
PROPOSED CAISSON (TYP.)
PROPOSED BUILDING FOOTING (TYP.)
FOR OVEREXCAVATION BETWEEN COLUMN LINE 2 TO 3:
A. OVEREXCAVATE TO ELEV 960.5 SOUTH OF SOUTH FOOTING OF RAMP
B. OVEREXCAVATE TO ELEV 957.5 OVER THE REMAINING AREA.
Overexcavation Between Column Lines 1 & 2
Overexcavation East of Column Line 3
COLUMN LINE 3
Scale: 1" = 5' H & V

RECORD PRINTS

MASON & HANGER ENGINEERING INC.
ARCHITECT • ENGINEERS
LEXINGTON, KENTUCKY

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved by [signature] 10·19·87
director - design and construction division / date

BUILDING CROSS-SECTIONS

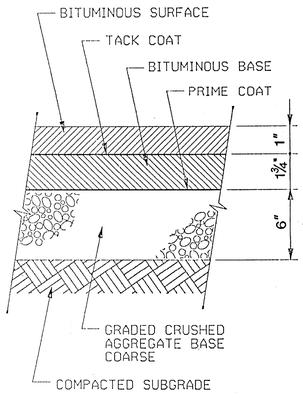
Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606 254 1351

JOB NO 2046
DATE 10-19-87
DRAWN BT
CHECKED TOA
FILE NO. 431.0

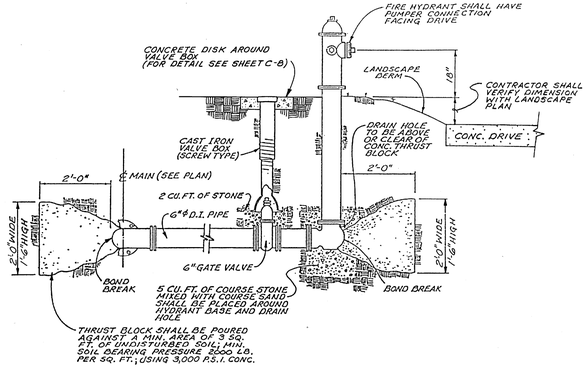
REVISIONS

SHEET
C-6

Cab # 82 Slot A-1 Document # 004840

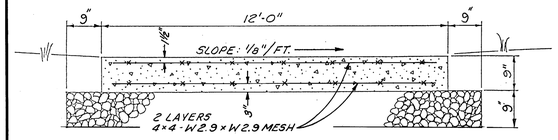


TYPICAL PAVEMENT SECTION

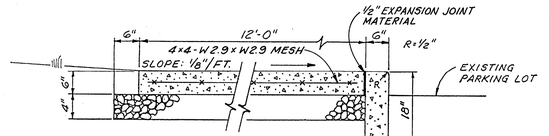


NOTE:
FIRE HYDRANT SPECIFICATIONS SHALL CONFORM TO KENTUCKY AMERICAN WATER COMPANY REQUIREMENTS.

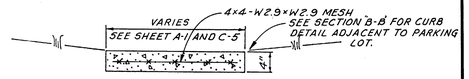
FIRE HYDRANT DETAIL



SECTION A-A



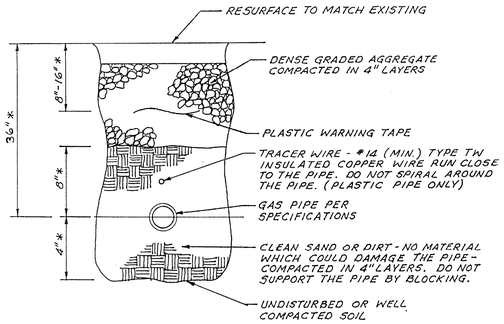
SECTION B-B



SECTION C-C

NOTE:
SLOPE ALL SIDEWALKS ADJACENT TO BUILDING ⅛"/FT. AWAY FROM BUILDING.

SIDEWALK AND CURB DETAILS

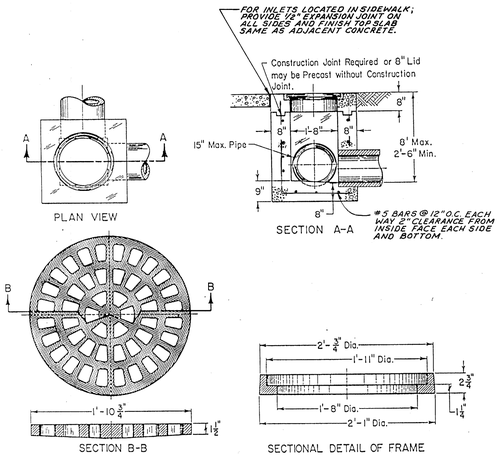


* DIMENSIONS MAY VARY TO SUIT CONDITIONS

ALL GAS SUPPLY INSTALLATIONS WILL BE IN ACCORDANCE WITH THE REGULATIONS AND RECOMMENDATIONS OF COLUMBIA GAS COMPANY.

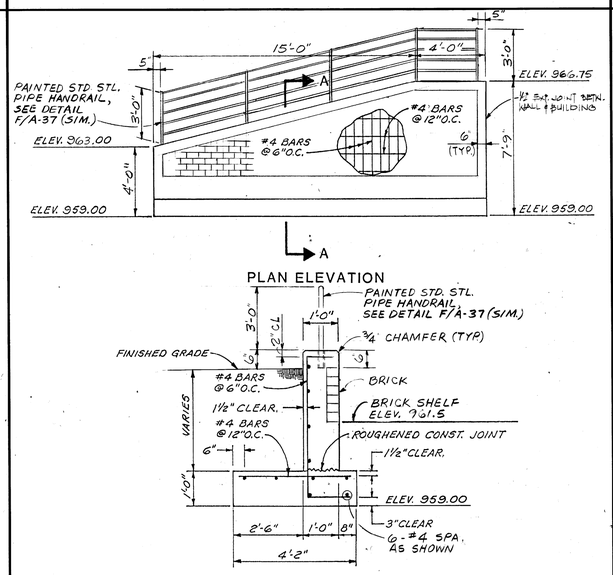
TYPICAL CROSS SECTION UNDER PAVEMENT

GAS PIPE INSTALLATION



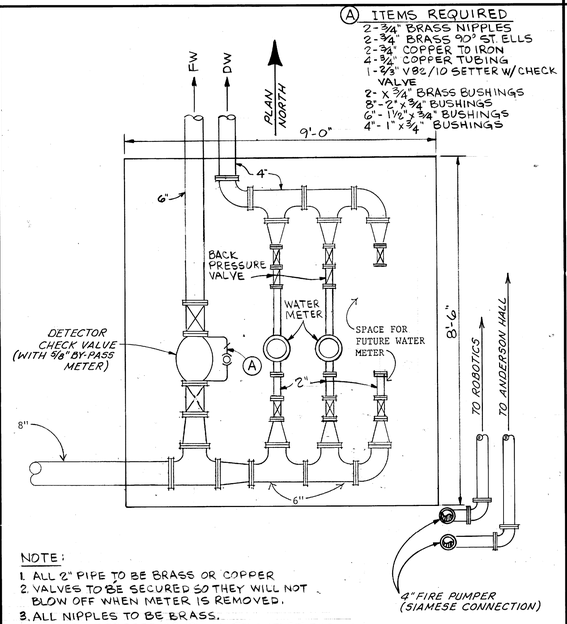
HEAVY DUTY CAST IRON FRAME AND GRATE

SURFACE INLET DETAIL



SECTION A-A

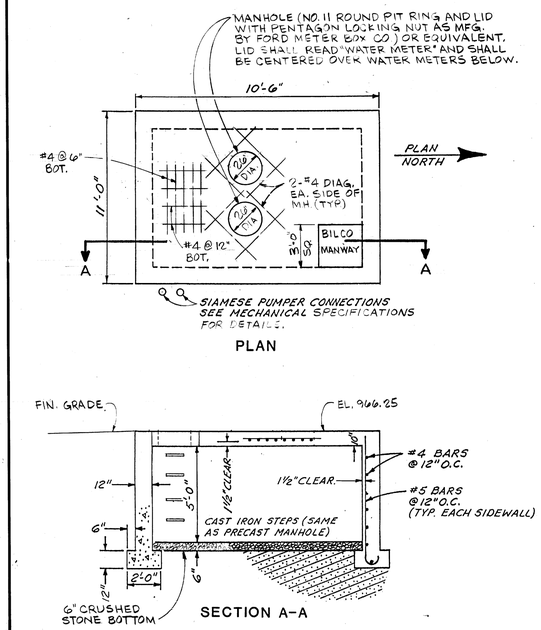
RETAINING WALL DETAIL



Ⓐ ITEMS REQUIRED
2-¾" BRASS NIPPLES
2-¾" BRASS 90° ST. ELLS
2-¾" COPPER TO IRON
4-¾" COPPER TUBING
1-⅔" V82/10 SETTER W/ CHECK VALVE
2-¾" X ⅜" BRASS BUSHINGS
8-1" X ¾" BUSHINGS
6-1¼" X ¾" BUSHINGS
4-1" X ¾" BUSHINGS

NOTE:
1. ALL 2" PIPE TO BE BRASS OR COPPER
2. VALVES TO BE SECURED SO THEY WILL NOT BLOW OFF WHEN METER IS REMOVED.
3. ALL NIPPLES TO BE BRASS.
4. PROVIDE DRESSER COUPLING ON OUTLET END OF METERS ON DOMESTIC WATER LINES TO ACCOMODATE ¼" PIT COCK. PROVIDE ONE ¼" PIT COCK ON CENTER LINE.

WATER METER VAULT PIPING DETAIL



WATER METER VAULT DETAIL

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

10-19-87
date
approved by director - design and construction division

"SECTIONS AND DETAILS"

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1800 • 250 WEST MAIN STREET • LEXINGTON, KY. 40507 • (606) 254-1761

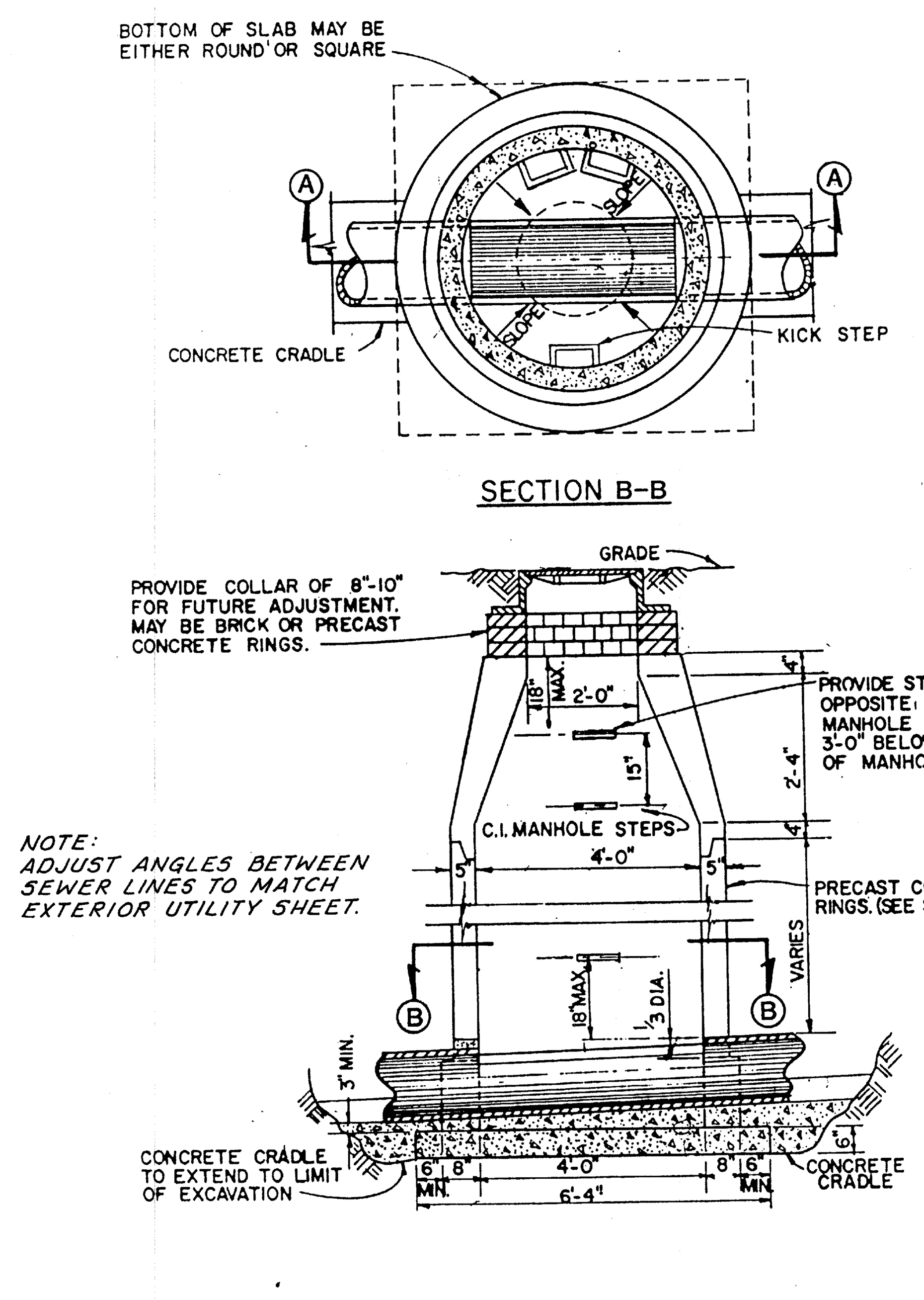
JOB NO. 2046
DATE 10-19-87
DRAWN BT
CHECKED T.O.A.
FILE NO. 431.0

REVISIONS

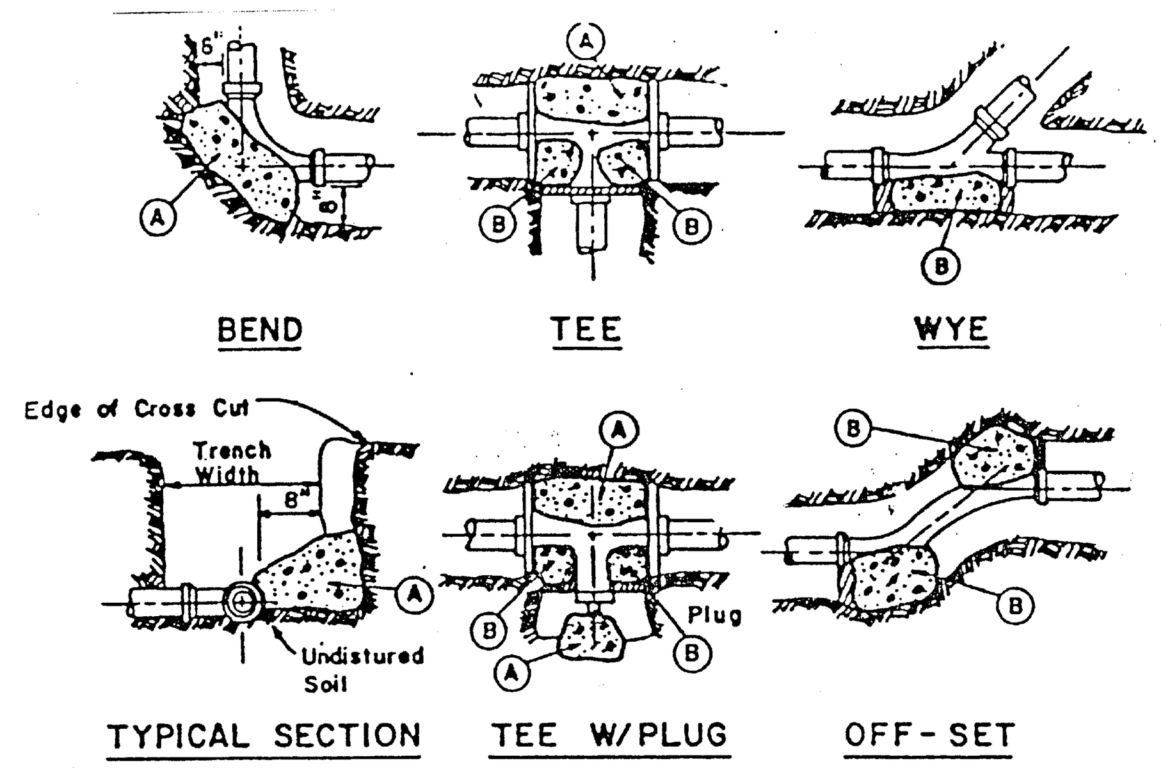
SHEET
C-7

Cab # 82 Slot A-1 Document # 004841

MASON & HANGER ENGINEERING INC.
ARCHITECT • ENGINEERS
LEXINGTON, KENTUCKY



STANDARD MANHOLE



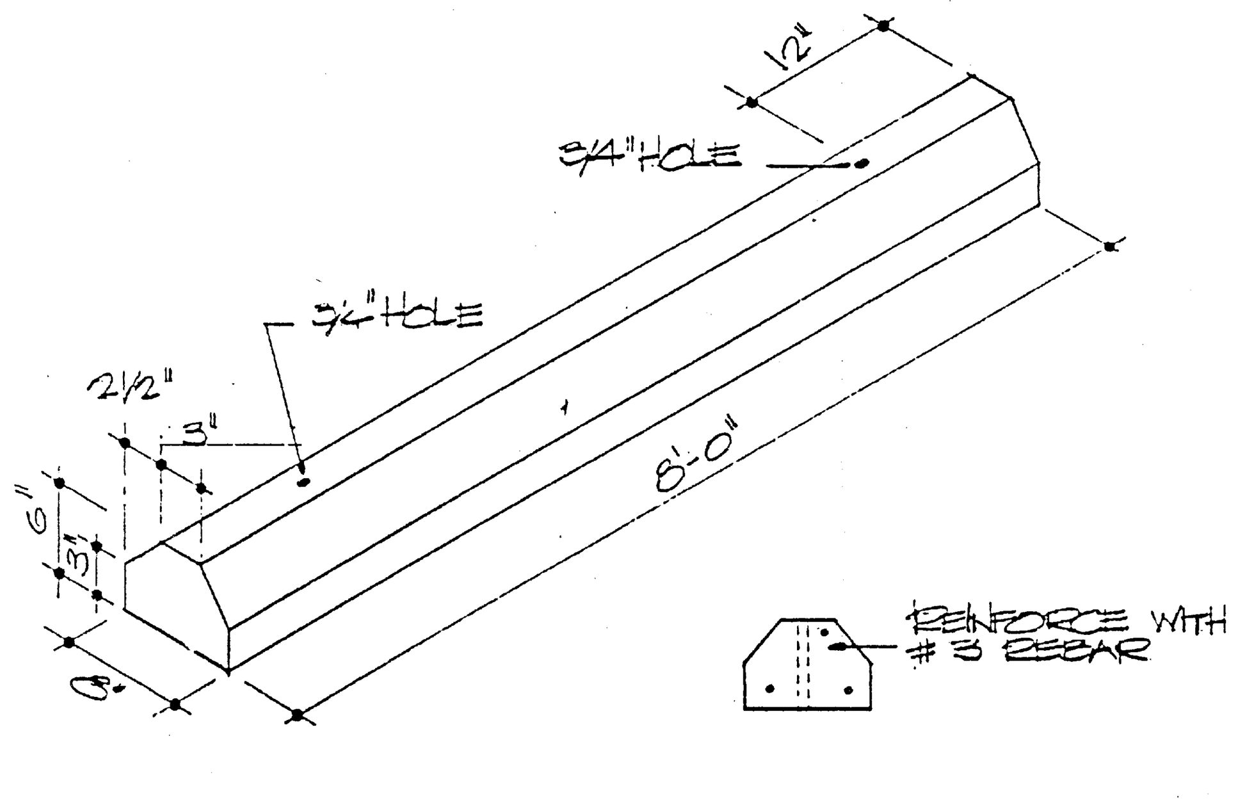
Notes:

1. Pour thrust blocks against undisturbed material. Where trench wall has been disturbed, excavate loose material and extend thrust blocks to undisturbed material.
2. On bends and tees, extend thrust blocks full length.
3. Place board in front of all plugs before pouring thrust blocks.
4. In backfilling, any muck encountered shall be removed and replaced with acceptable material.
5. No coupling or joints shall be covered with concrete.
6. Sizes are based on 150 p.s.i internal pressure and 2000 lbs./sq. ft. soil bearing.
7. Concrete shall be class "B".

SQUARE FEET OF CONCRETE THRUST BLOCKING BEARING ON UNDISTURBED MATERIAL

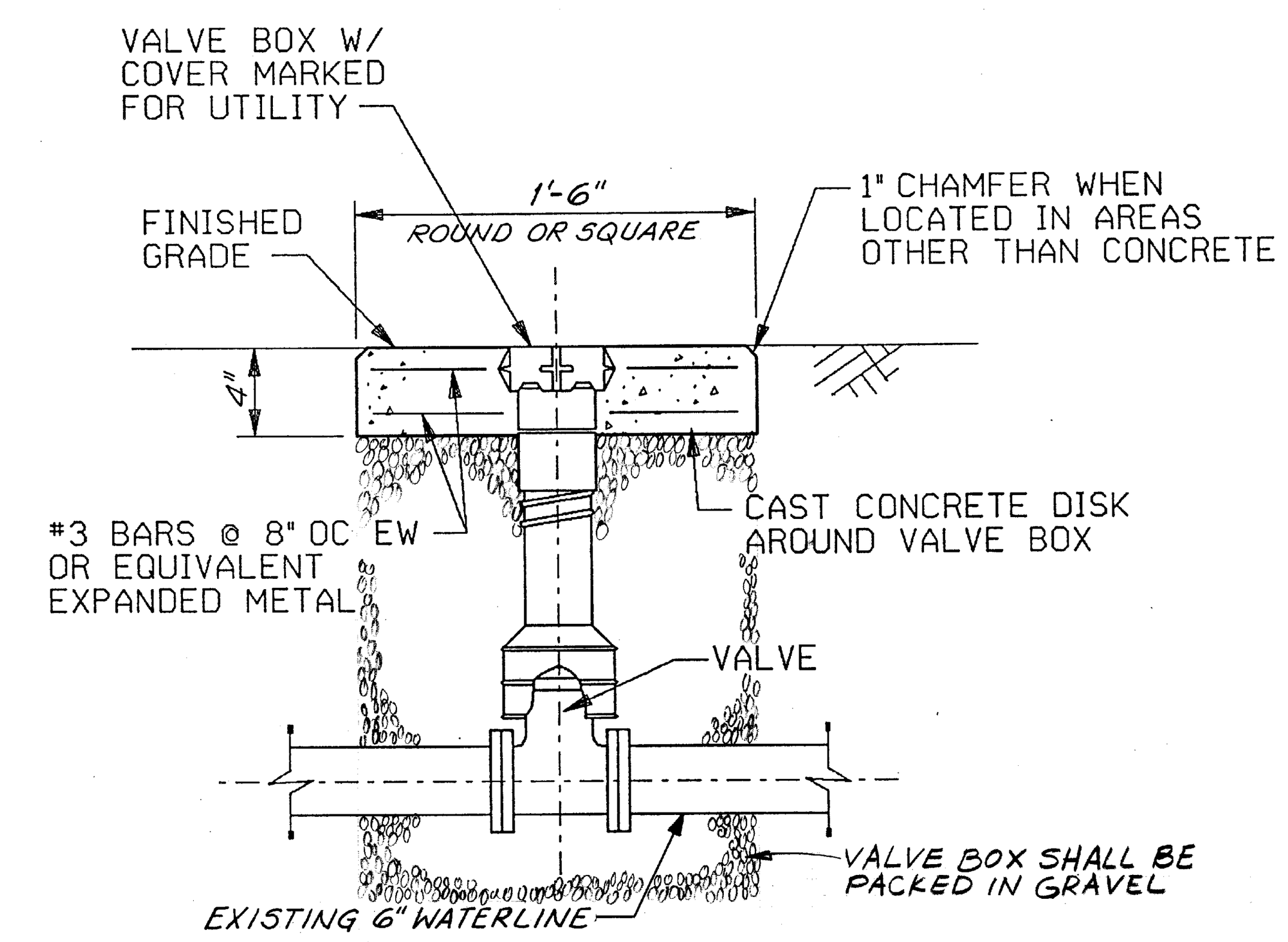
PIPE SIZE	4"	6"	8"	10"	12"	14"	16"	20"
MARK (A)	1.5	3	6	9	12	16	20	22
MARK (B)	1	2	4	5	8	10	12	15

THRUST BLOCK DETAILS

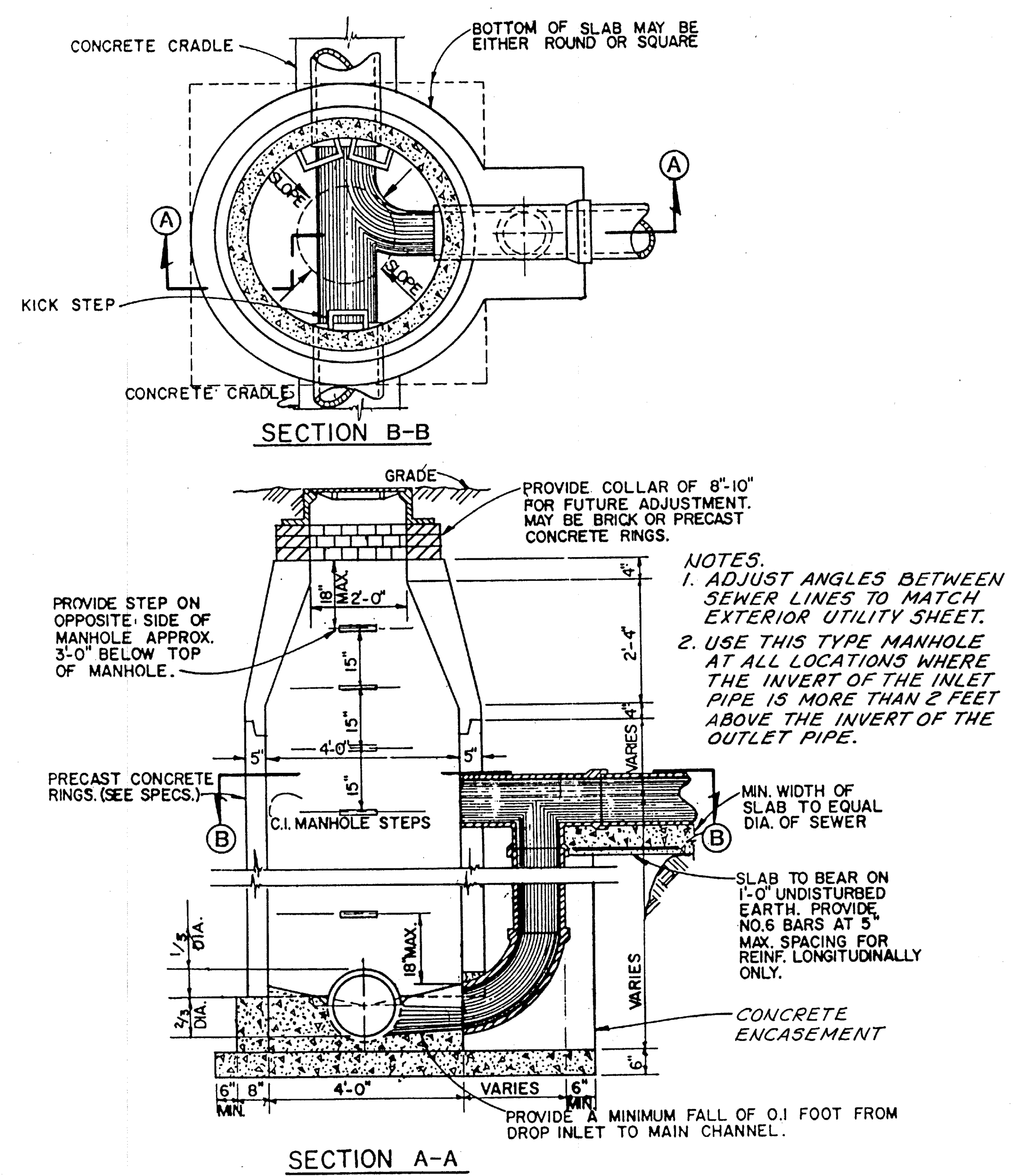


2'-4'-6'-8' STANDARD LENGTHS
3'-5'-7' SPECIAL ORDER LENGTHS
CONCRETE = 3500 P.S.I. AT 28 DAYS
WEIGHT: 38 lbs PER LINEAR FOOT
5/8" x 12" PINS TO FASTEN TO PAVEMENT

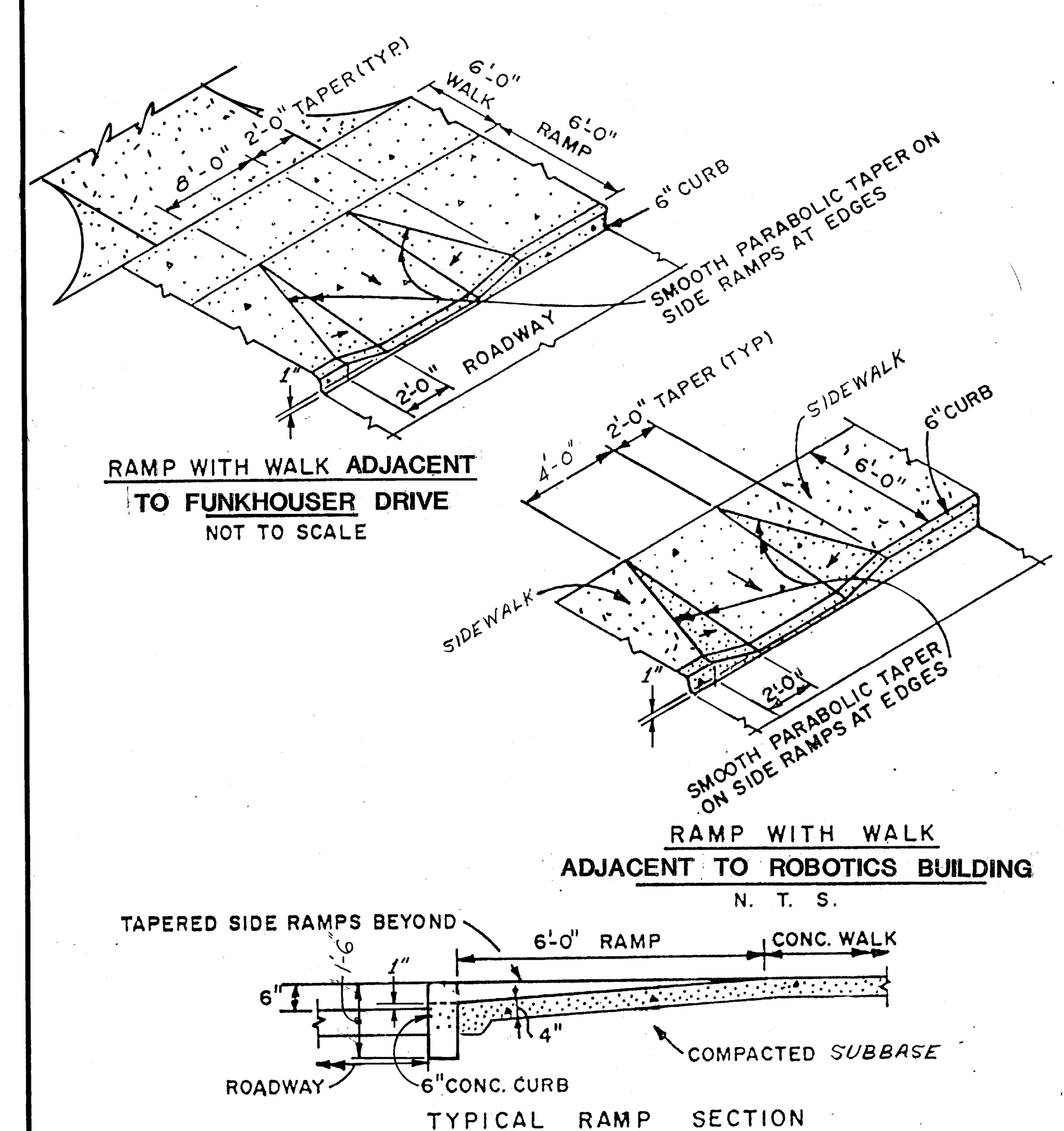
WHEEL STOP BLOCK



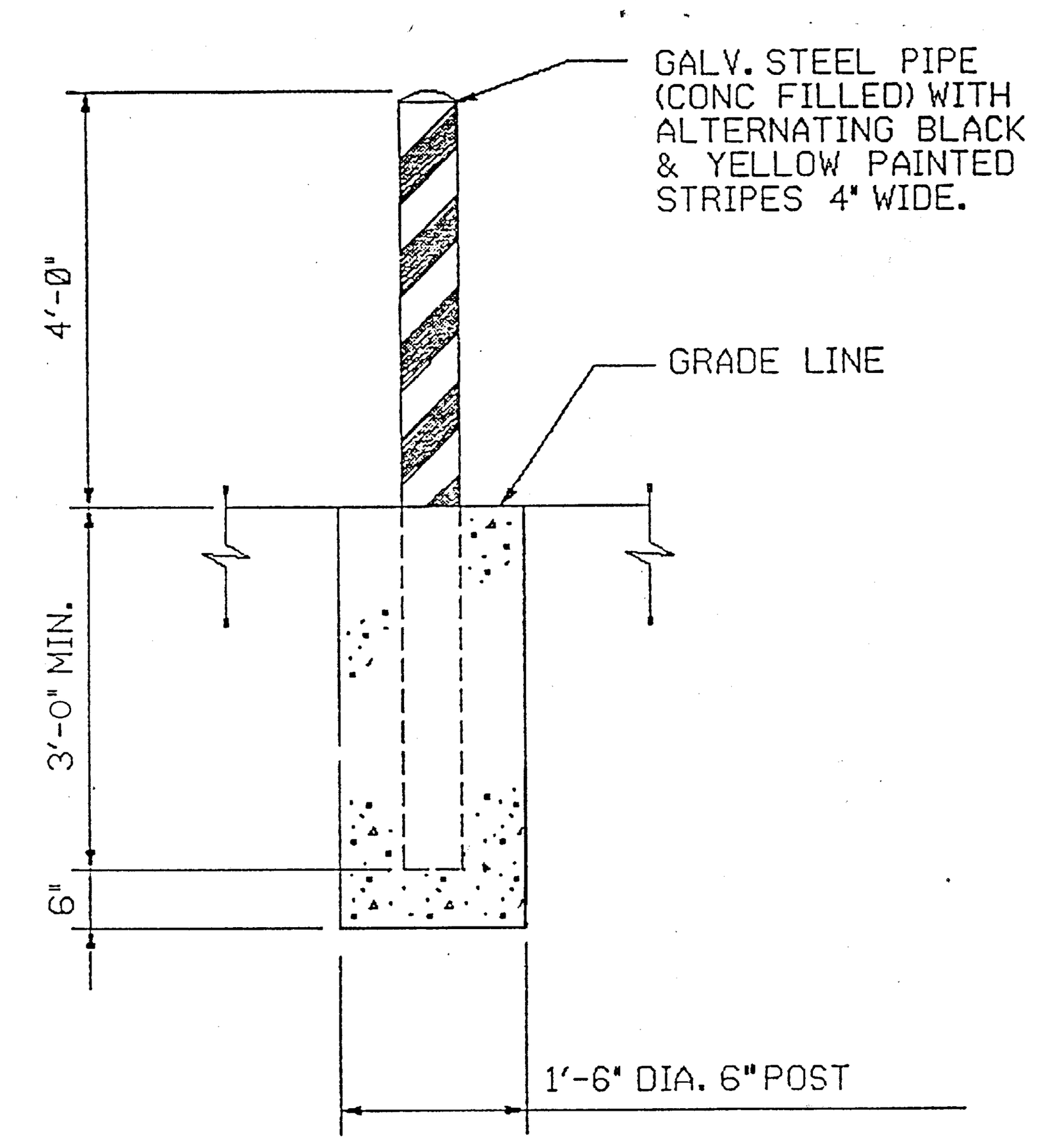
VALVE BOX & VALVE SETTING



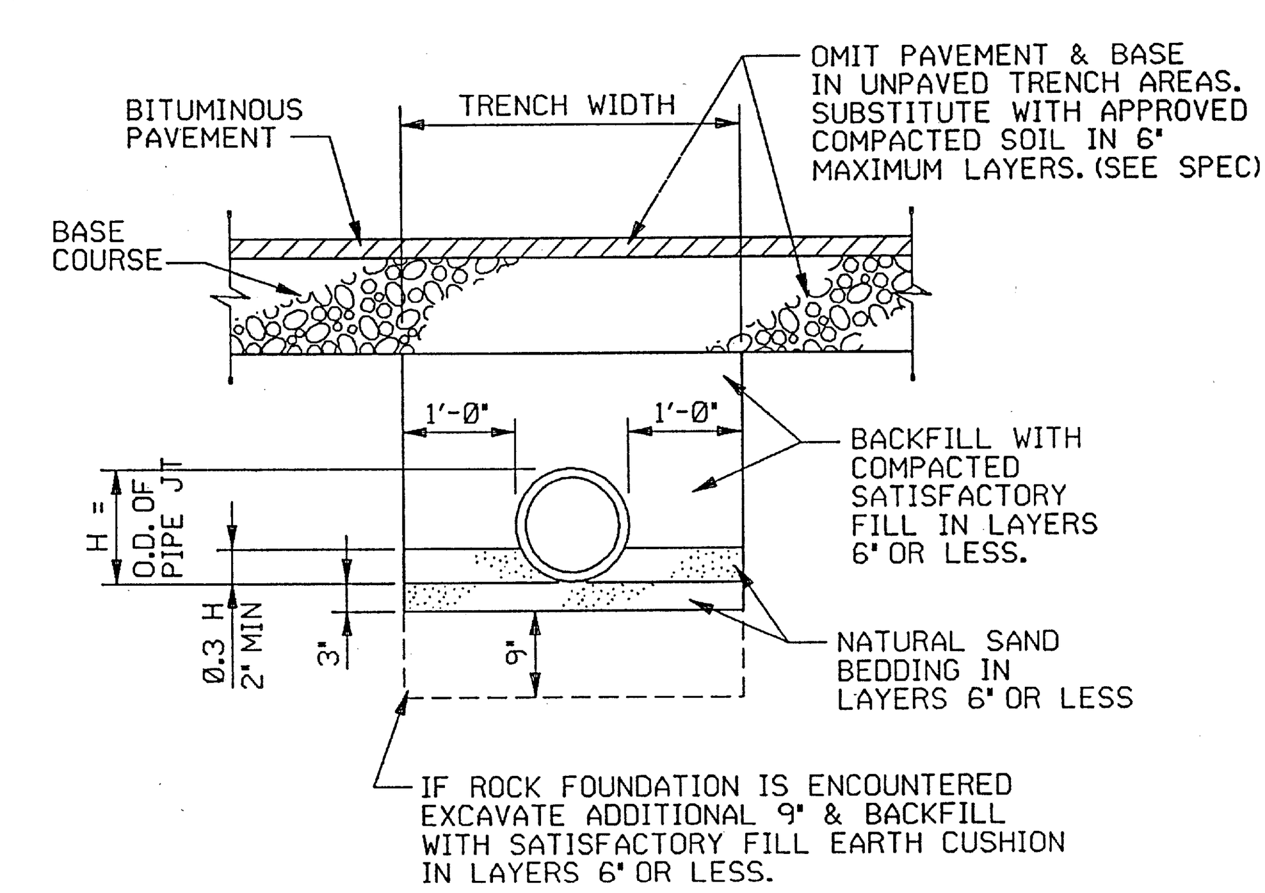
DROP MANHOLE



CONCRETE PAVED HANDICAPPED RAMP DETAIL



GUARD POST DETAIL



DOMESTIC AND FIRE WATER STORM AND SANITARY SEWER TRENCH AND BEDDING DETAIL

MASON & HANGER ENGINEERING INC.
ARCHITECT • ENGINEERS
LEXINGTON, KENTUCKY

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved
director - design and construction division
10.19.87
date

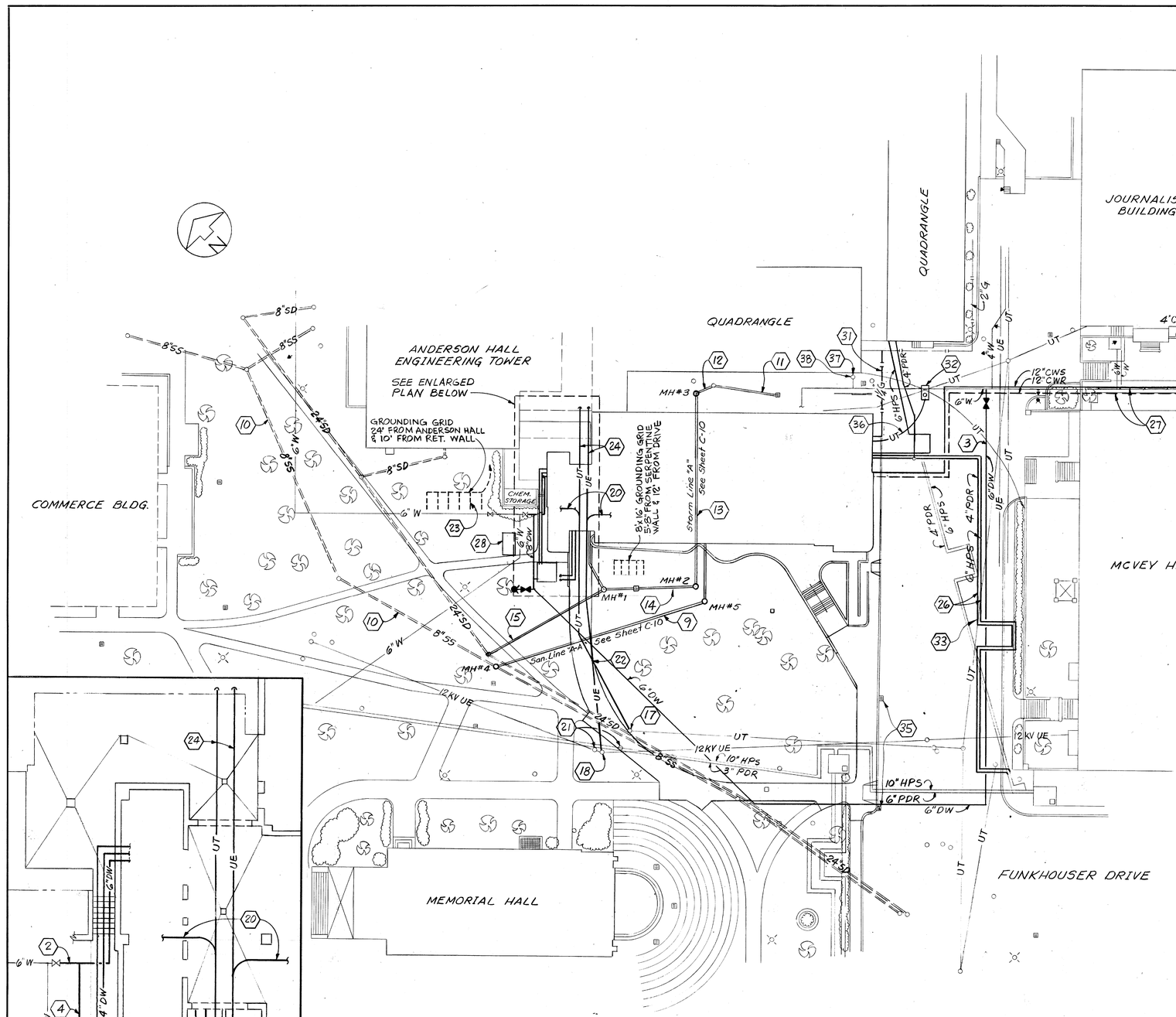
SECTIONS AND DETAILS

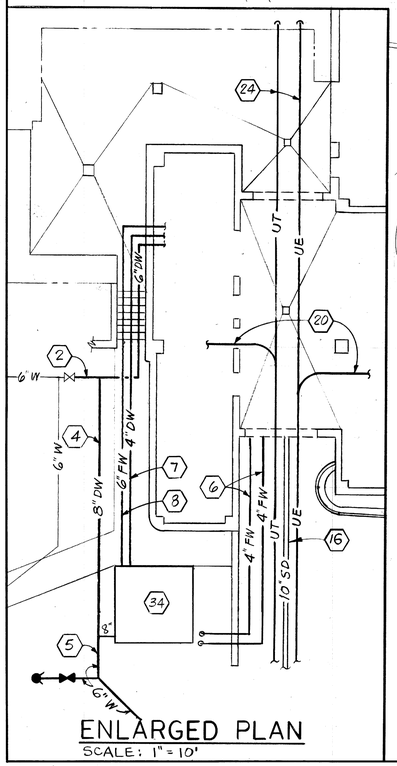
Sherman Carter Barnhart
PARTNERS IN ARCHITECTURE

JOB NO 2046
DATE 10-19-87
DRAWN BT
CHECKED TOA
FILE NO. 431.0

REVISIONS

SHEET
C-8





ENLARGED PLAN
SCALE: 1" = 10'

EXTERIOR UTILITY PLAN
SCALE: 1" = 30'

NOTE:
A DOUBLE FEED IS REQUIRED TO MAINTAIN ADEQUATE PRESSURE FOR FIRE WATER SERVICE TO ROBOTICS. THE SERVICE LOOP MUST REMAIN OPEN AT BOTH ENDS.

RECORD PRINTS
THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND UPON THE ENGINEERS CONSULTANTS SIGNIFICANT

UTILITY CONSTRUCTION NOTES

OMIT 1. ~~CAP EXISTING 6 INCH WATER LINE WEST OF SERVICE LINE TO QUADRANGLE.~~

OMIT 2. ~~EXTEND 6 INCH DUCTILE IRON WATER LINE FROM EXISTING LINE TO INSIDE FACE OF ROBOTICS FACILITY AND STUB UP THROUGH THE FLOOR. SEE SHEET M-9 FOR CONTINUATION.~~

3. EXTEND 6 INCH DUCTILE IRON WATER LINE FROM 6" FIRE HYDRANT SERVICE LINE AROUND ROBOTICS FACILITY AS SHOWN. CONNECT TO EXIST. 6" LINE WITH 6"x6"x6" TEE. PROVIDE SHUTOFF VALVE IN NEW LINE, FOR DETAILS SEE SHEET C-8.

4. EXTEND 8 INCH DUCTILE IRON WATER LINE FROM EXISTING 6 INCH LINE TO METER VAULT. SEE SHEET C-7 FOR PIT DETAILS.

5. EXTEND 6 INCH DUCTILE IRON WATER LINE TO FIRE HYDRANT, SEE SHEET C-7 FOR FIRE HYDRANT DETAIL.

6. EXTEND TWO 4 INCH DUCTILE IRON FIRE MAINS FROM SIAMESE CONNECTIONS IN METER VAULT TO OUTSIDE FACE OF ROBOTICS BUILDING. SEE SHEET M-24 FOR CONTINUATIONS.

7. EXTEND 4 INCH DUCTILE IRON DOMESTIC WATER LINE FROM METER PIT AND STUB UP INSIDE ROBOTICS. SEE SHEET M-9 FOR CONTINUATION.

8. EXTEND 6 INCH DUCTILE IRON FIRE MAIN FROM METER PIT AND STUB UP INSIDE ROBOTICS. SEE SHEET M-9 FOR CONTINUATION.

9. EXTEND SANITARY SEWER FROM ROBOTICS THROUGH TWO MANHOLES AND CONNECT TO EXISTING SANITARY SEWER. SEE SHEET M-14 FOR CONTINUATION OF SEWER UNDER ROBOTICS. SEE SHEET C-8 FOR MANHOLE DETAILS.

10. CONTRACTOR SHALL VERIFY THAT EXISTING SANITARY SEWER, FROM POINT OF CONNECTION, FOR AN APPROXIMATE DISTANCE OF 230 FEET DOWNSTREAM TO THE SECOND EXISTING MANHOLE, IS IN SATISFACTORY WORKING ORDER.

11. CONNECT SURFACE INLET TO EXISTING MANHOLE WITH 8 INCH DUCTILE IRON STORM SEWER. SEE SHEET C-7 FOR DETAILS OF SURFACE INLET.

12. CONNECT EXISTING MANHOLE TO NEW MANHOLE WITH 10 INCH DUCTILE IRON STORM SEWER.

13. EXTEND 10 INCH STORM SEWER FROM MANHOLE NORTH OF ROBOTICS, UNDER BUILDING FOOTING TO MANHOLE SOUTH OF ROBOTICS.

14. CONTINUE 10 INCH STORM SEWER SURFACE INLET AND ON TO MANHOLE.

15. EXTEND 12 INCH DUCTILE IRON STORM SEWER FROM MANHOLE #1 TO EXISTING STORM SEWER MANHOLE AS INDICATED.

16. EXTEND 10" CAST IRON STORM SEWER FROM MANHOLE #1 TO FACE OF ROBOTICS BUILDING. SEE SHEET M-14 FOR CONTINUATION OF PIPING UNDER BUILDING.

17. EXISTING TELEPHONE MANHOLE U-81.

18. EXISTING ELECTRIC MANHOLE E-110

OMIT 19. ~~RELOCATE EXISTING 6" WATER LINE AROUND NEW TELEPHONE MANHOLE AS SHOWN.~~

20. SEE PARTIAL BASEMENT FLOOR PLAN, SHEET C-14. FOR CONDUIT STUB UP LOCATIONS INSIDE BUILDING.

21. EXISTING AIR VENTS, MANHOLE E-110.

22. MAINTAIN 12 INCH EARTH SEPARATION BETWEEN TELEPHONE AND ELECTRIC LINES.

23. NEW GROUNDING GRID. SEE DETAIL SHEET C-15.

24. TELEPHONE AND ELECTRIC DUCT BANKS TO ANDERSON HALLS MECHANICAL ROOM, SEE SHEET C-14-16 FOR DETAILS.

OMIT 25. ~~EXISTING WATER METER PIT. REPLACE EXISTING COVER WITH HEAVY DUTY COVER, ADJUST ELEVATION TO MATCH NEW GRADE.~~

26. HIGH PRESSURE STEAM AND PUMP DISCHARGE RETURN, SEE SHEETS C-11 THRU 13 FOR DETAILS.

27. CHILLED WATER SUPPLY AND RETURN LINES, SEE SHEETS C-11 THRU 13 FOR DETAILS.

28. UNDERGROUND FUEL OIL STORAGE TANK, LOCATED 15'-0" SOUTH OF EXISTING RETAINING WALL. AVOID EXISTING 6" WATER MAIN. SEE MECHANICAL FOR DETAILS.

OMIT 29. ~~SURFACE INLET, T/R ELEVATION 964.6, INVERT ELEVATION 962.0. SEE SHEET C-7 FOR CONSTRUCTION DETAILS.~~

OMIT 30. ~~CONNECT SURFACE INLET TO EXISTING MANHOLE WITH 8 INCH DUCTILE IRON STORM SEWER. OUTFLOW INVERT ELEVATION AT MANHOLE = 963.16. EXISTING MANHOLE INVERT ELEVATION IS 950.9.~~

31. EXTEND 1-1/4 INCH STEEL GAS LINE FROM EXISTING 2 INCH LOW PRESSURE GAS MAIN INTO ROBOTICS BUILDING AS SHOWN. SEE SHEET M-10 FOR CONTINUATION INSIDE BUILDING.

32. NEW TELEPHONE MANHOLE. SEE SHEET C-16 FOR DETAILS.

33. MAINTAIN MAXIMUM SEPARATION BETWEEN NEW STEAM LINES AND EXISTING UNDERGROUND TELEPHONE LINES.

34. WATER METER VAULT. SEE SHEET C-7 FOR VAULT AND VAULT PIPING DETAILS.

35. SURFACE INLETS, SEE NOTE 15 ON SHEET C-4.

36. PROVIDE DUCT BANK FROM NEW TELEPHONE MANHOLE TO ROOM B-02 IN BSMT. OF ROBOTICS FACILITY. SEE DWG C-16 FOR DUCT BANK DETAILS. ENTER ROOM B-02 THROUGH THE EAST WALL, 8 FT. SOUTH OF COL. LINE E AT EL. 969.5'.

37. REPLACE EXIST. PIT TOP SLAB WITH 8" REINF. CONC. SLAB #6@6" WITH 1½" CL. FROM BOT. FACE. PROVIDE MANHOLE (NO. 12 ROUND PIT RING & LID WITH PENTAGON LOCKING NUT AS MANUFACTURED BY FORD METER BOX CO. OR EQUIVALENT). LID SHALL READ "WATER METER" AND BE CTR. OVER METER.

38. EXIST. WATER METER PIT. CONNECT EXIST. WATER LINE DIRECTLY TO EXIST. METER. PROVIDE REDUCER, COUPLINGS & DUCTILE IRON OR COPPER PIPE AS REQUIRED FOR CONNECTION. ABANDON LINE WEST OF CONNECTION.

MASON & HANGER ENGINEERING INC.
ARCHITECT • ENGINEERS
LEXINGTON, KENTUCKY

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by [signature] director - design and construction division
10-19-87 date

EXTERIOR UTILITY PLAN

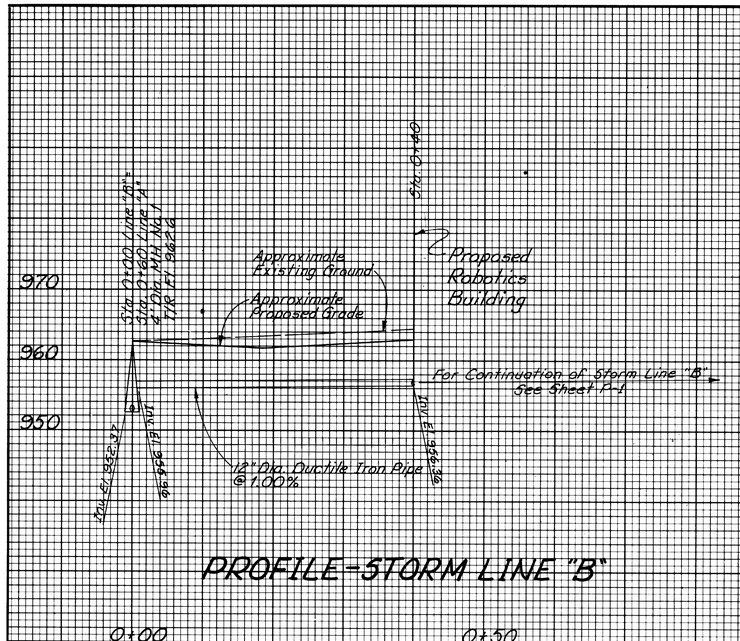
Herman·Carter·Barnhart
ARCHITECTURE
PARTNERS IN ARCHITECTURE
SUITE 1000 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • (606) 254-1781

JOB NO 2046
DATE 10-1987
DRAWN PG
CHECKED TOA
FILE NO. 431.0

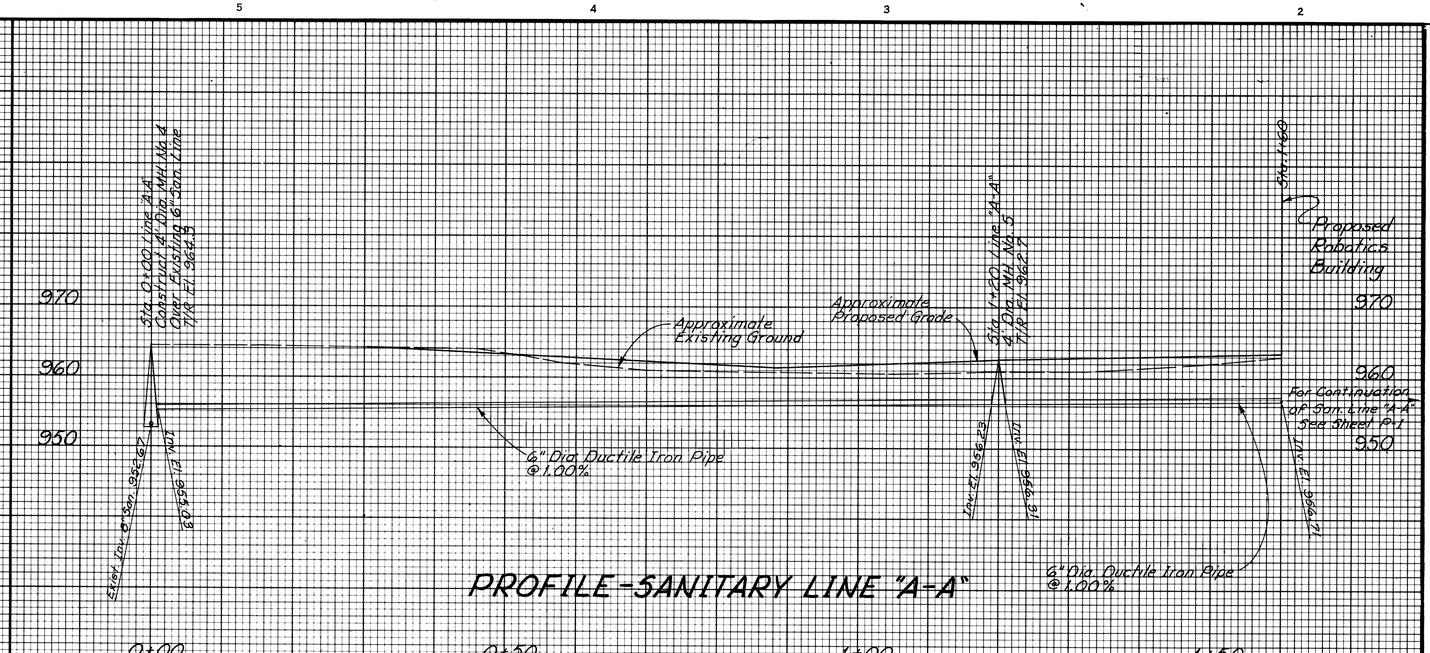
REVISIONS

SHEET
C-9

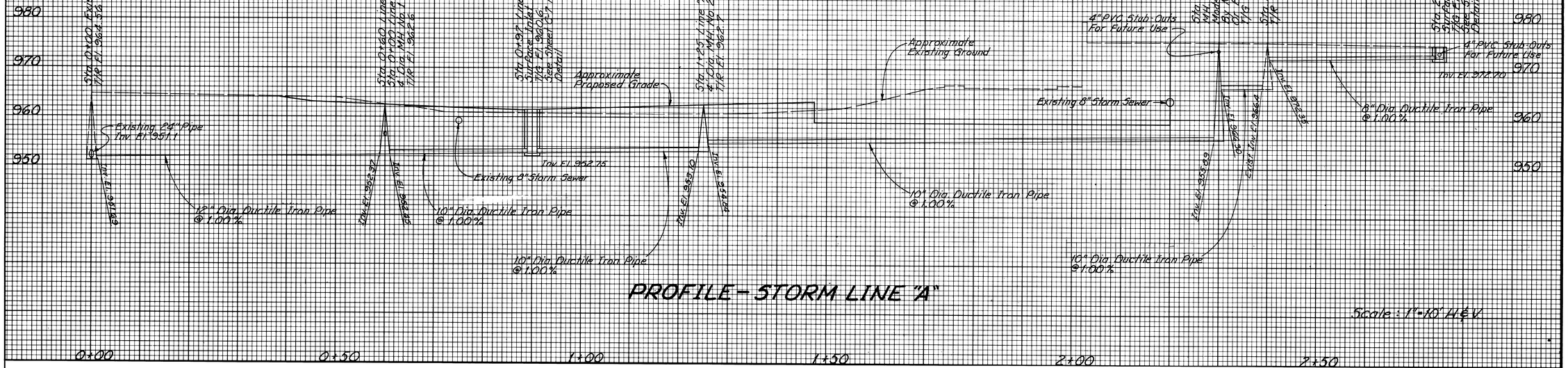
Cab # Slot Document # 004843
82 A-1



PROFILE - STORM LINE "B"



PROFILE - SANITARY LINE "A-A"



PROFILE - STORM LINE "A"

Scale: 1"=10' H & V.

MASON & HANGER ENGINEERING INC.
ARCHITECT • ENGINEERS
LEXINGTON, KENTUCKY

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
Director - design and construction division
10-19-87
date

SANITARY AND STORM PROFILES

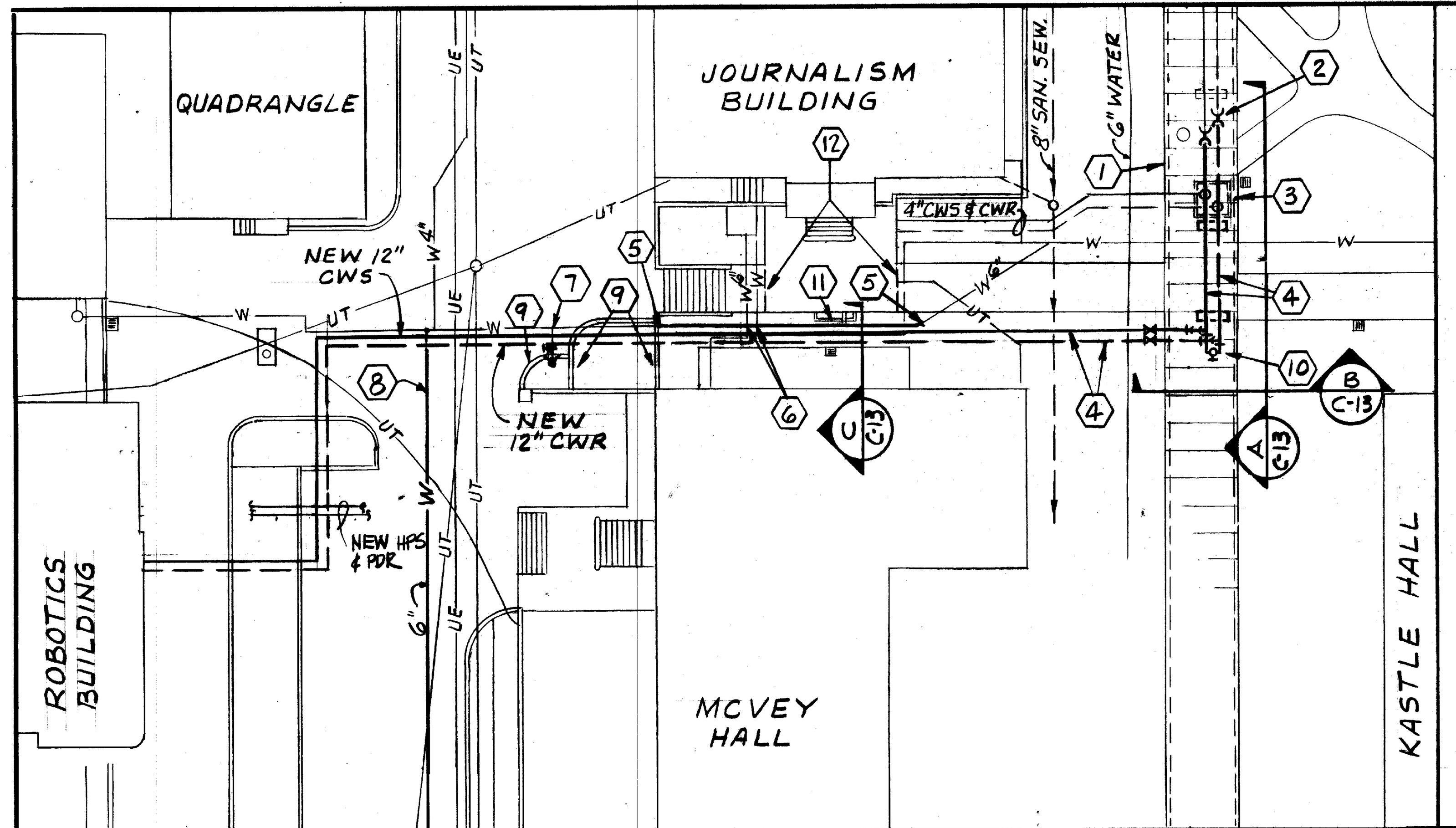
Sherman · Carter · Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1500 • 250 WEST MAIN STREET • LEXINGTON, KY. 40507 • (606) 254-1551

JOB NO. 2046
DATE 10-19-87
DRAWN BT
CHECKED TOA
FILE NO. 431.0

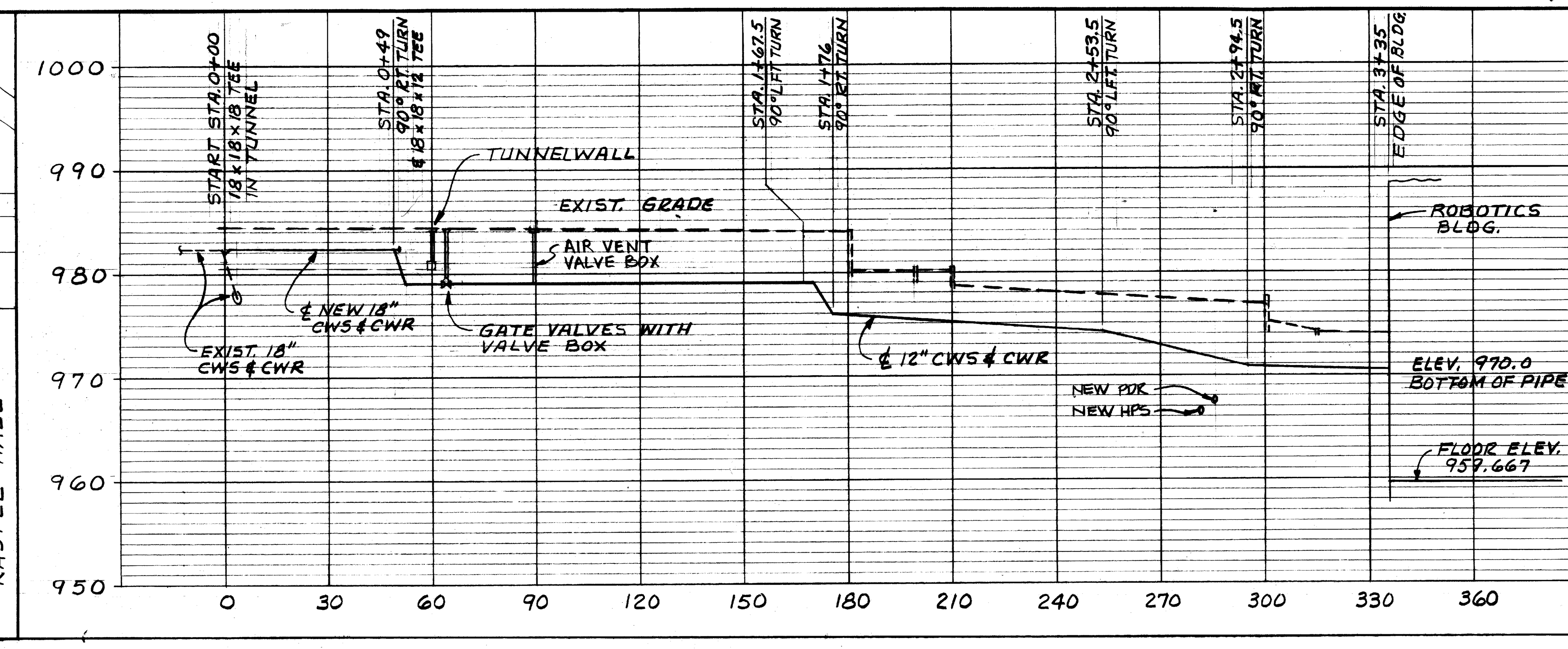
REVISIONS

SHEET
C-10

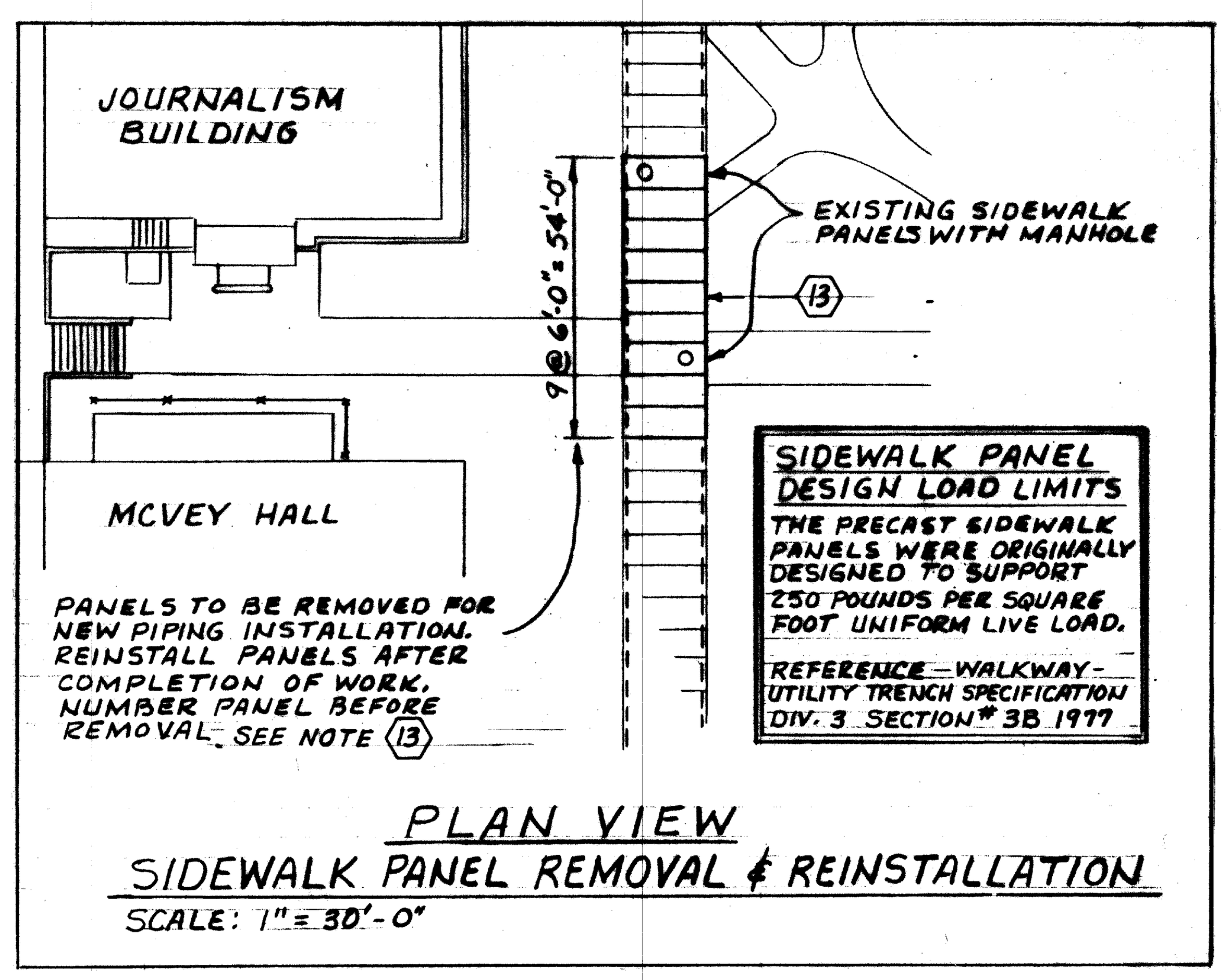
Cab # 82 Slot A-1 Document # 004844



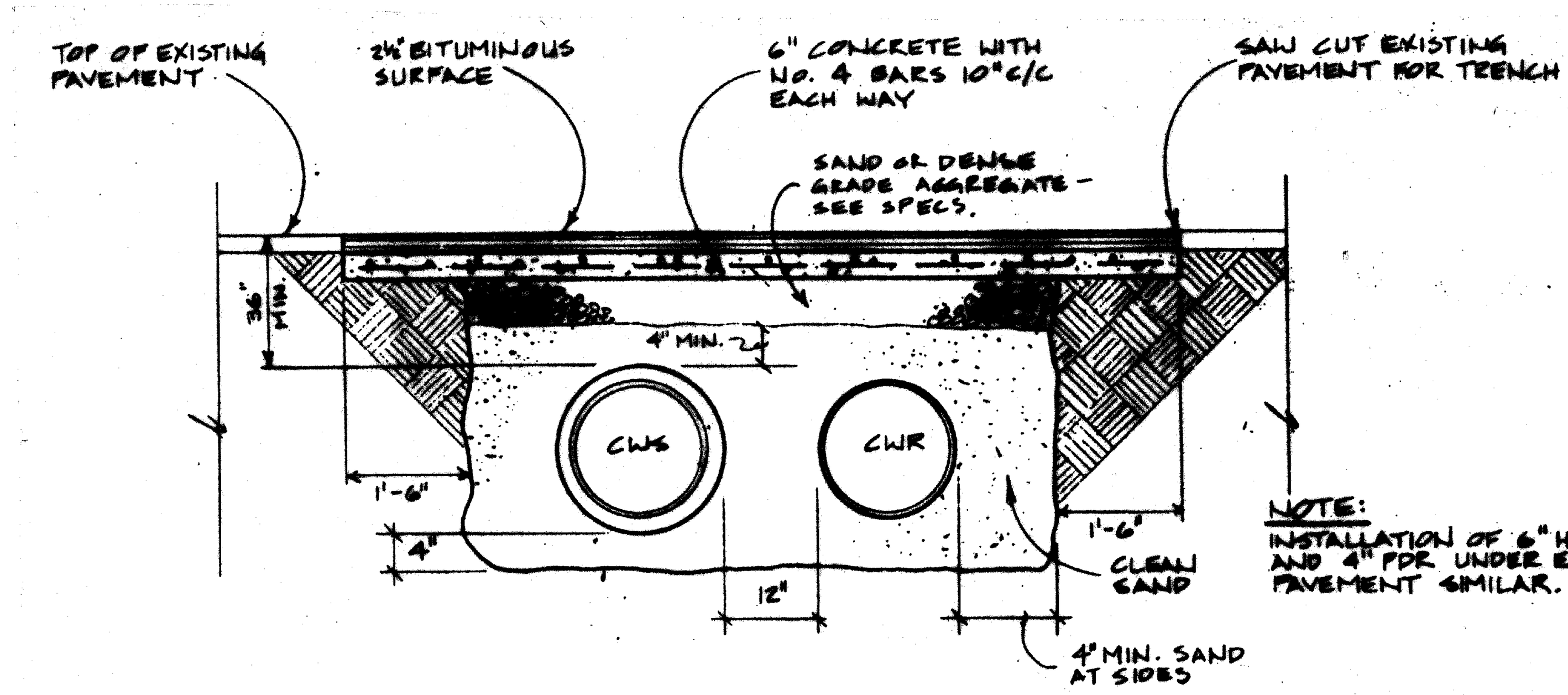
CWS & CWR PLAN
SCALE: 1" = 30'-0"



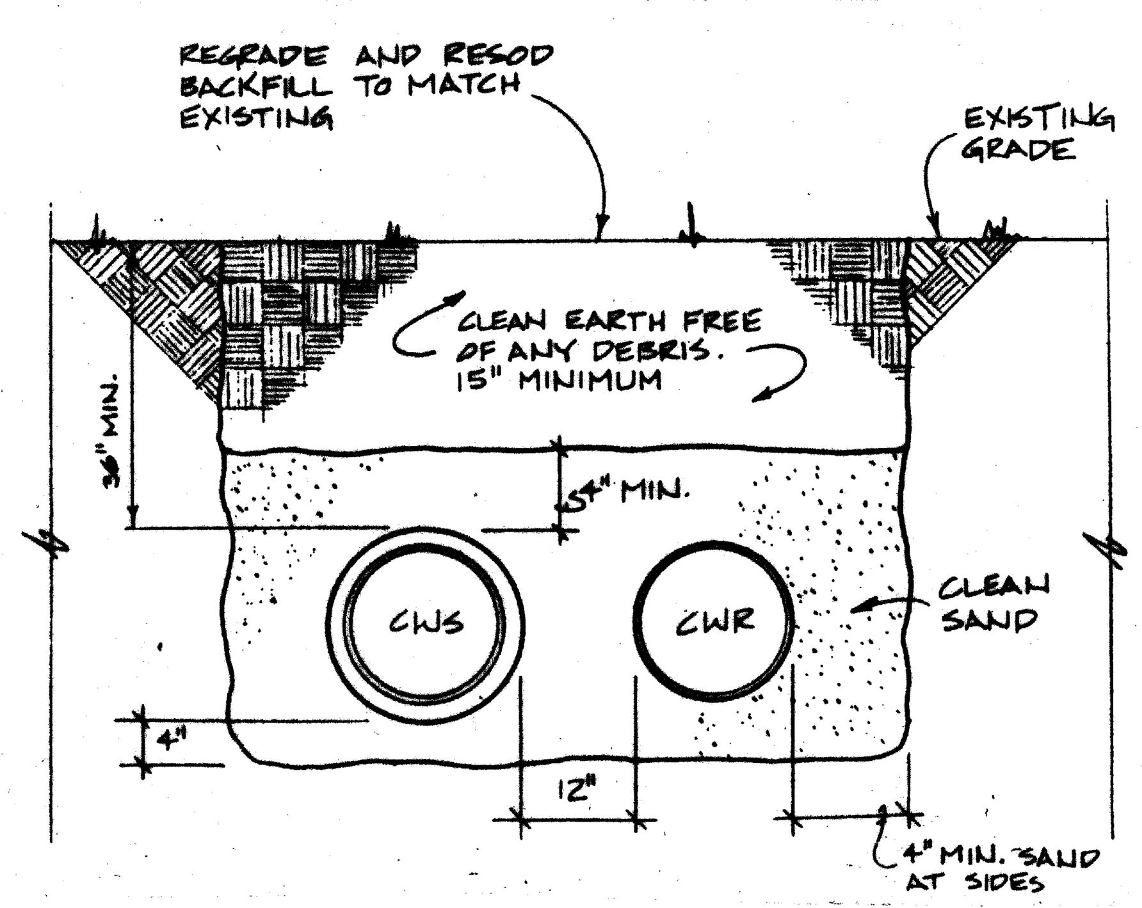
CWS & CWR PROFILE
SCALE: 1" = 10' VERT.
1" = 30' HORIZ.



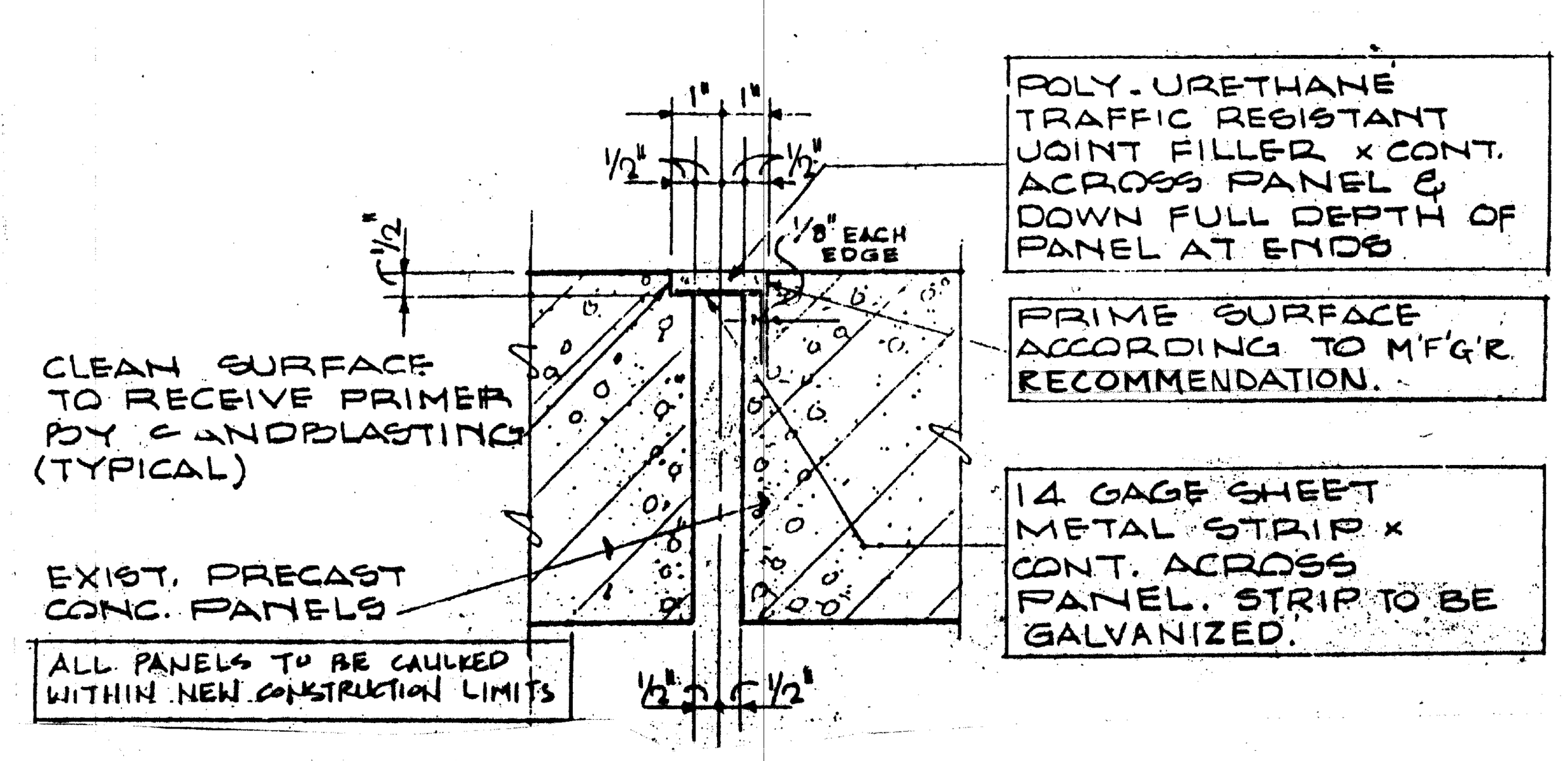
PLAN VIEW
SIDEWALK PANEL REMOVAL & REINSTALLATION
SCALE: 1" = 30'-0"



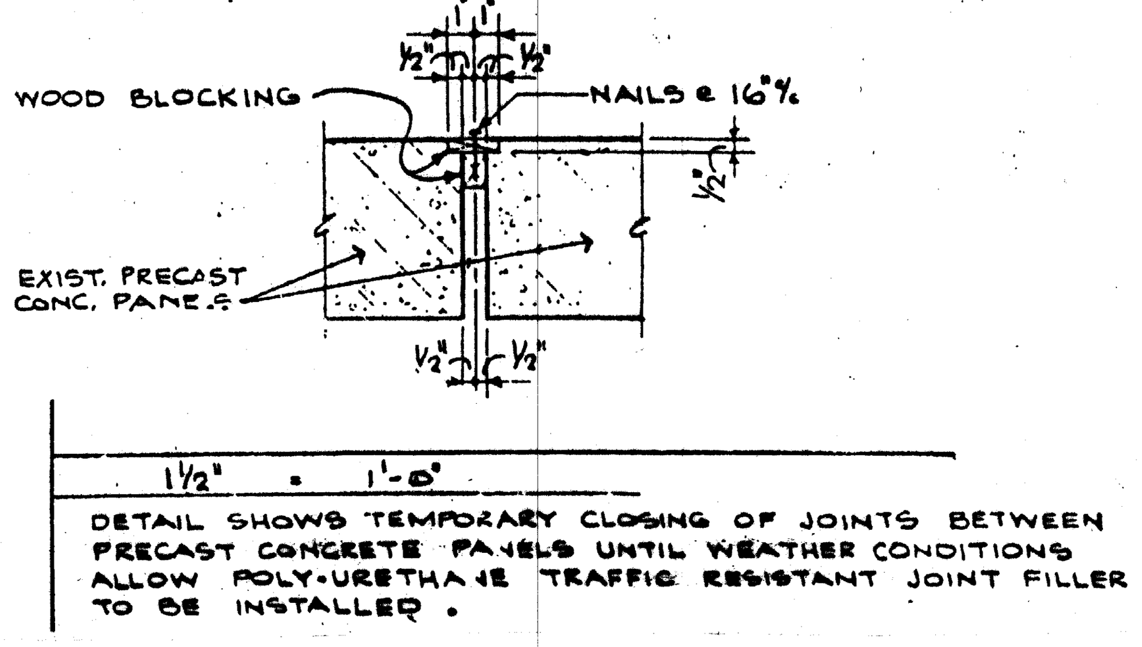
TYPICAL CHILLED WATER PIPE DETAIL
NO SCALE



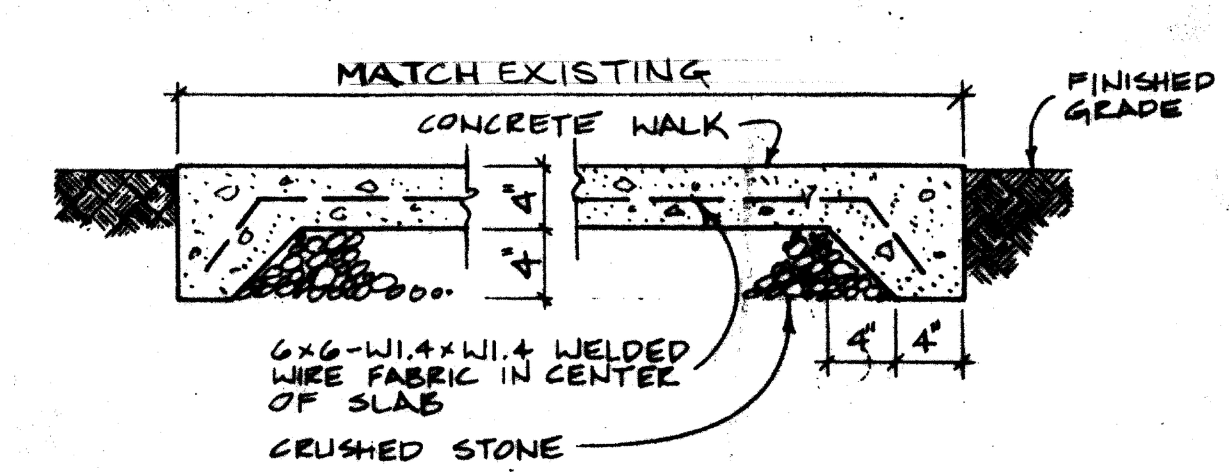
TYPICAL CHILLED WATER PIPE DETAIL
NO SCALE



TYPICAL DETAIL FOR CAULKING OF PRECAST SIDEWALK PANELS
NO SCALE



TEMPORARY JOINT DETAIL
NO SCALE



TYPICAL SIDEWALK DETAIL
NO SCALE

NOTES:

1. REMOVE, STORE, AND REPLACE SIDEWALK PANELS, AS DETAILED.
2. REMOVE EXISTING 10 INCH CWS AND CWR LINES, DISCONNECTING 4 INCH CWS AND CWR TO JOURNALISM BUILDING. REPLACE EXISTING 18 x 18 x 10 INCH TEES AND SPOOL PIECE WITH NEW 18 x 18 x 18 TEES, 18 INCH SPOOL PIECE AND 18" PIPE AS DETAILED IN SECTION - B.
3. RECONNECT 4 INCH CWS AND CWR LINE TO JOURNALISM BUILDING.
4. EXTEND NEW 18 INCH CWS AND CWR LINES IN TUNNEL AND NEW 12 INCH CWS AND CRW LINES FROM NEW 18 INCH LINES TO ROBOTICS BUILDING. SEE SECTIONS - A & B.
5. PROVIDE NEW 6 INCH WATER LINE TO RELOCATE THIS UTILITY TO POSITION SHOWN IN SECTION - C. INSTALL NEW PORTION TO THE FULL EXTENT POSSIBLE BEFORE MAKING FINAL CONNECTIONS TO THE EXISTING LINE TO KEEP THE SERVICE INTERRUPTION TO A MINIMUM. REMOVE OLD PIPE BETWEEN NEW CONNECTION POINTS.
6. RECONNECT EXISTING BRANCH LINES TO JOURNALISM BUILDING AND MCVEY HALL AS REQUIRED KEEPING SERVICE INTERRUPTION TO A MINIMUM.
7. RELOCATED EXISTING FIRE HYDRANT, VALVE AND VALVE BOX AS REQUIRED TO CLEAR NEW 12 INCH CWS AND CWR LINES. REPLACE EXISTING PLANTER CURB AROUND FIRE HYDRANT AS REQUIRED TO ACCOMMODATE NEW HYDRANT AND VALVE LOCATION.
8. CONNECT NEW 6 INCH WATER LINE FROM THE ROBOTICS BUILDING TO THE EXISTING 6 INCH WATER MAIN.
9. REPLACE PLATER RETAINING WALLS, CURBS AND ANY OTHER DAMAGED SURFACES CAUSED BY CONSTRUCTION.
10. TERMINATE 18 INCH LINES WITH BLIND FLANGES. PROVIDE 1 INCH CROSS OVER CIRCULATION LINE WITH GLOBE VALVE FOR FREEZE PROTECTION.
11. REMOVE EXISTING AREAWAY AND REPLACE WITH NEW 70 INCH LONG BY 18 INCH WIDE (INSIDE DIMENSIONS) AREAWAY. MAINTAIN BOTTOM DRAIN IF IT EXISTS AND MODIFY AS NECESSARY. SEE SECTION - C.
12. JOURNALISM BUILDING MECHANICAL ROOM EXTENDS BELOW SIDEWALK. ROOF SLAB WILL NOT SUPPORT HEAVY EQUIPMENT LOADS. THE CONTRACTOR SHALL KEEP THIS AREA FREE OF ALL EQUIPMENT LOADS.
13. SIDEWALK PANELS TO BE REMOVED SHALL BE HANDLED WITH CARE TO ELIMINATE BREAKAGE OR OTHER DAMAGE. PANELS SHALL BE LIFTED BY SUPPORTING EACH END USING FABRIC SLINGS OR A SUITABLE CRADLE. REMOVED PANELS SHALL BE CAREFULLY STACKED USING WOOD BLOCKING NEAR EACH END AND STACKING NO MORE THAN THREE PANELS HIGH. PANELS REST ON NEOPRENE PADS ON THE TUNNEL WALLS. PADS MAY NEED REPLACING IF DAMAGE OF ANY NATURE OCCURS DURING PANEL REMOVAL.

RECORD PRINTS

THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND WHICH THE ENGINEER CONSIDERS SIGNIFICANT

MASON & HANGER ENGINEERING INC.
ARCHITECT • ENGINEERS
LEXINGTON, KENTUCKY

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

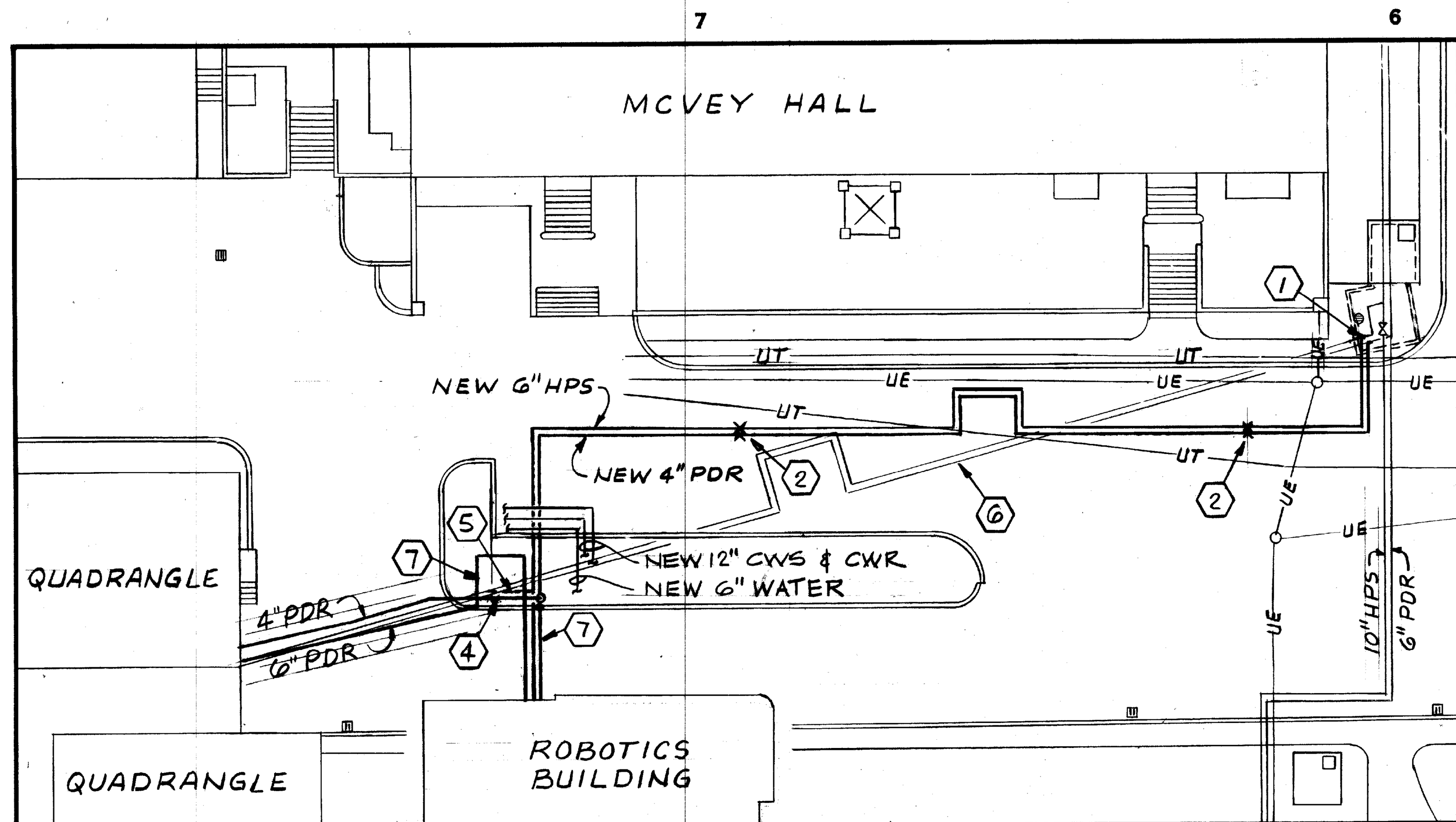
CHILLED WATER DETAILS

Sherman Carter Barnhart
PARTNERS IN ARCHITECTURE

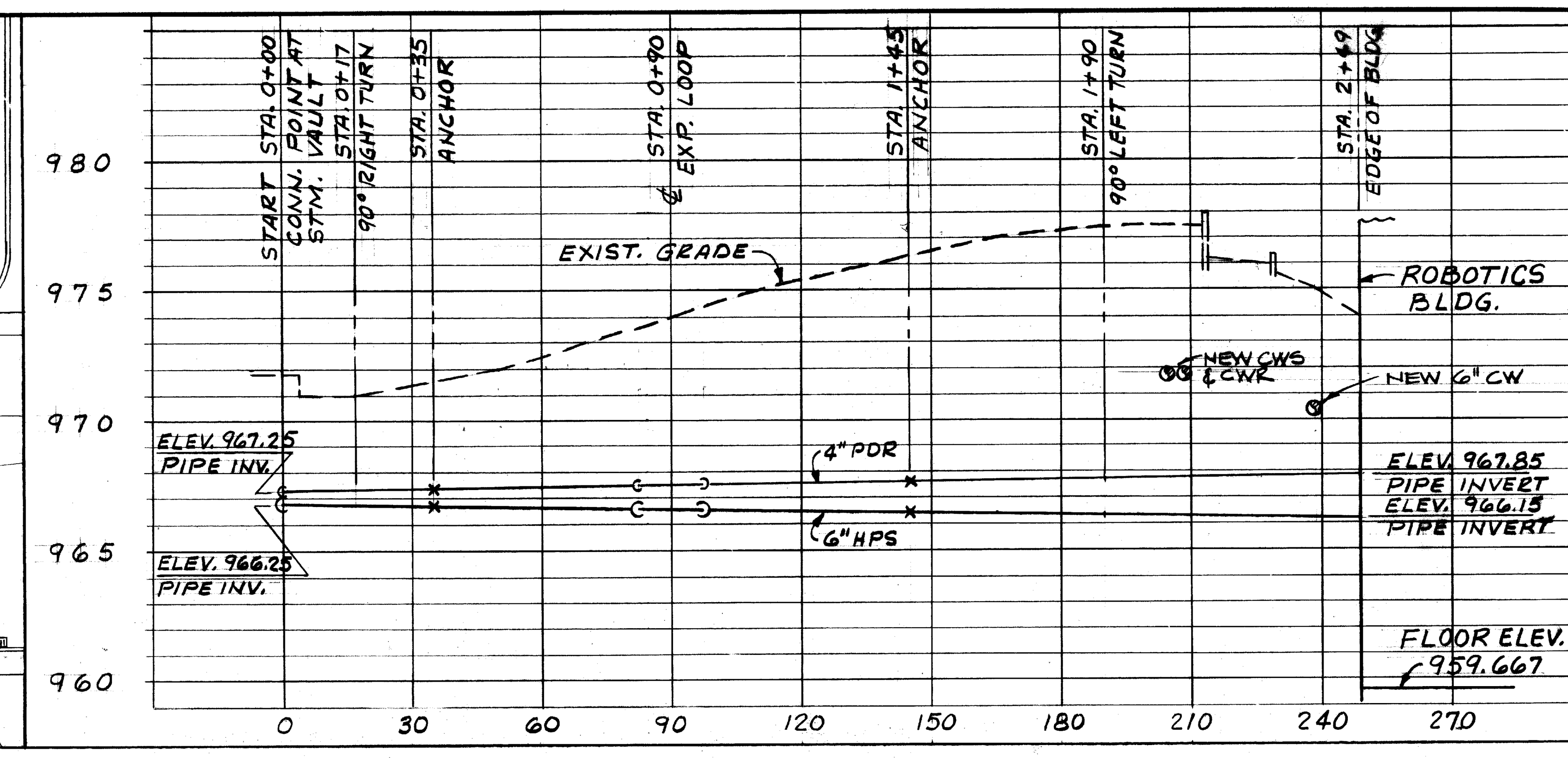
JOB NO.	2046
DATE	10-19-87
DRAWN	FDK
CHECKED	R
FILE NO.	431.0

REVISIONS

SHEET
C-11



STEAM & PDR PLAN
SCALE: 1" = 30'

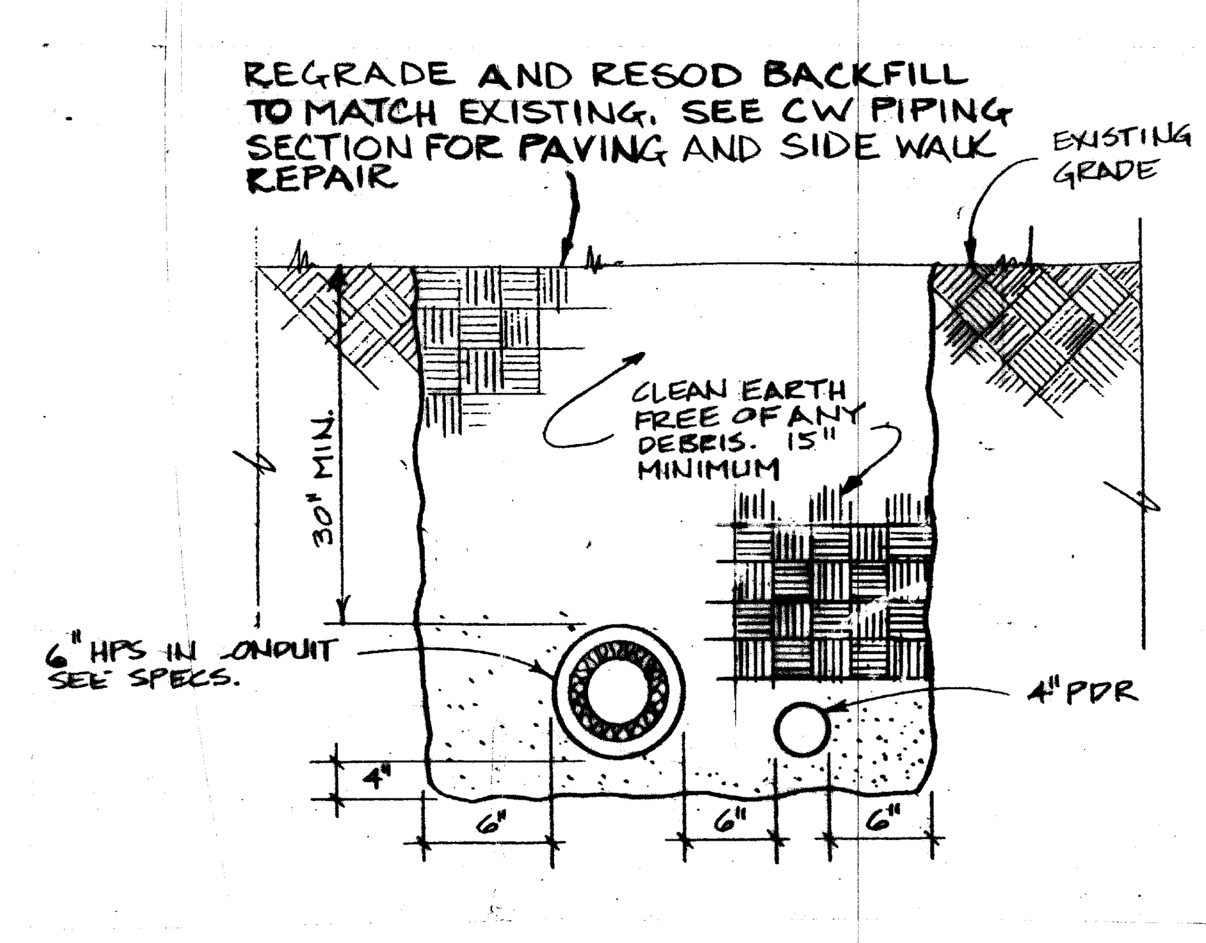


STEAM & PDR PROFILE
SCALE: 1" = 5' VERT.
1" = 30' HORIZ.

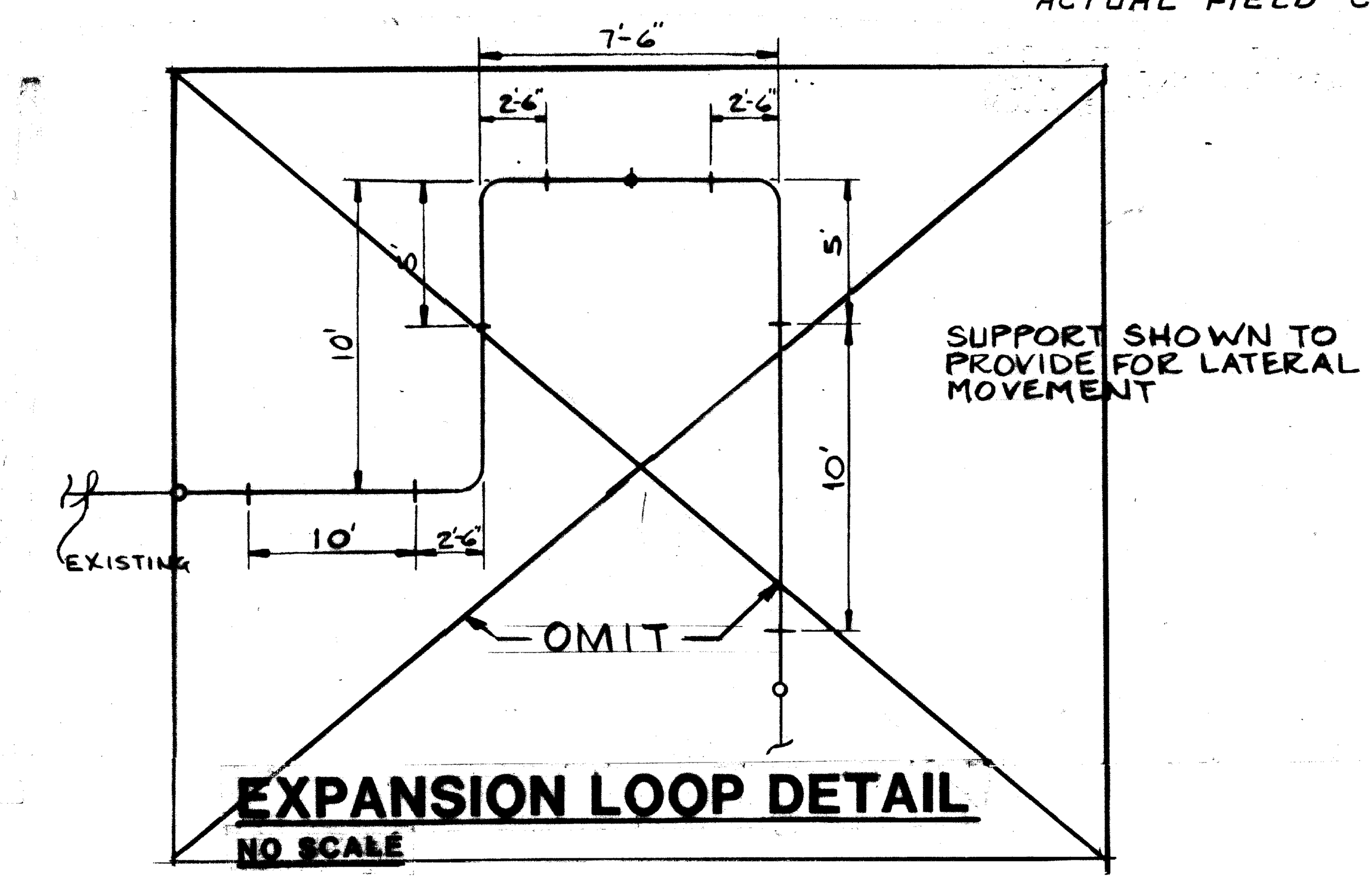
NOTE: DATA IS BASED ON ASSUMED CONNECTION POINT LOCATION & ELEVATION. ADJUST STATIONING & ELEVATION TO SUIT ACTUAL FIELD CONITIONS.

NOTES:

1. CONNECT TO EXISTING 6 INCH HPS AND 4 INCH PDR FROM STEAM VAULT. ADJUST ELEVATION AND LOCATION AS REQUIRED AND RUN NEW 6 INCH HPS AND 4 INCH PDR AS SHOWN. REMOVE PORTIONS OF EXISTING 6 INCH HPS AND 4 INCH PDR ONLY AS REQUIRED TO MAKE NEW CONNECTIONS AND ACCOMMODATE THE NEW INSTALLATION. REMAINDER MAY BE ABANDONED.
2. ANCHOR POINTS.
3. OMIT ~~REMOVE EXISTING SIDEWALK AS REQUIRED TO INSTALL EXPANSION LOOP. REPLACE SIDEWALK TO MATCH EXISTING AT COMPLETION OF WORK.~~
4. PROVIDE A NEW 4 INCH PDR ~~CONNECTION, FROM THE EXISTING 4 INCH PDR~~ COMING FROM THE QUADRANGLE, TO THE NEW 4 INCH PDR. PROVIDE A TEE WITH BLIND FLANGE AT CONNECTION POINT TO NEW 4 INCH PDR FOR CONNECTING TO THE NEW 4 INCH PDR FROM THE ROBOTICS BUILDING.
5. PROVIDE A TEMPORARY 6 INCH CONNECTION FROM THE EXISTING 6 INCH HPS SERVING THE QUADRANGLE, TO THE NEW 6 INCH HPS. THIS TEMPORARY CONNECTION WILL PROVIDE STEAM TO THE QUADRANGLE DURING ROBOTICS BUILDING CONSTRUCTION.
6. ABANDON EXISTING 6 INCH HPS AND 4 INCH PDR BETWEEN NEW CONNECTIONS.
7. WHEN ROBOTICS BUILDING CONSTRUCTION PERMITS, EXTEND NEW 6 INCH HPS ~~AND 4 INCH PDR~~ INTO BUILDING AND RUN A NEW 6 INCH HPS FROM A 6 INCH HPS LINE CONNECTION POINT INSIDE THE BUILDING TO THE NEW 6 INCH HPS SERVING THE QUADRANGLE, PROVIDING AN EXPANSION LOOP AS SHOWN. REMOVE TEMPORARY 6 INCH HPS CONNECTING LINE IF IN PLACE.

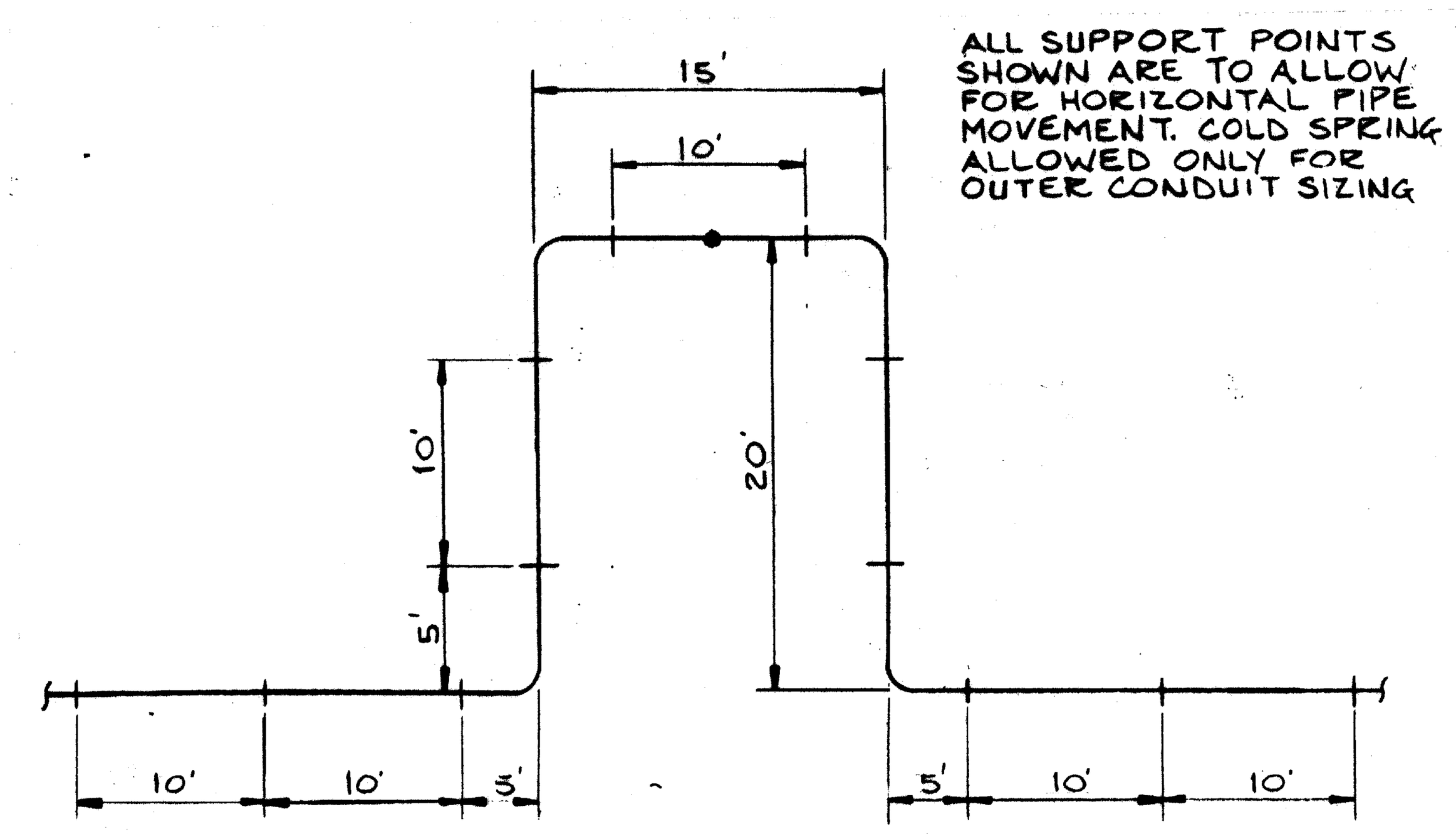


STEAM & PDR DETAIL
NO SCALE

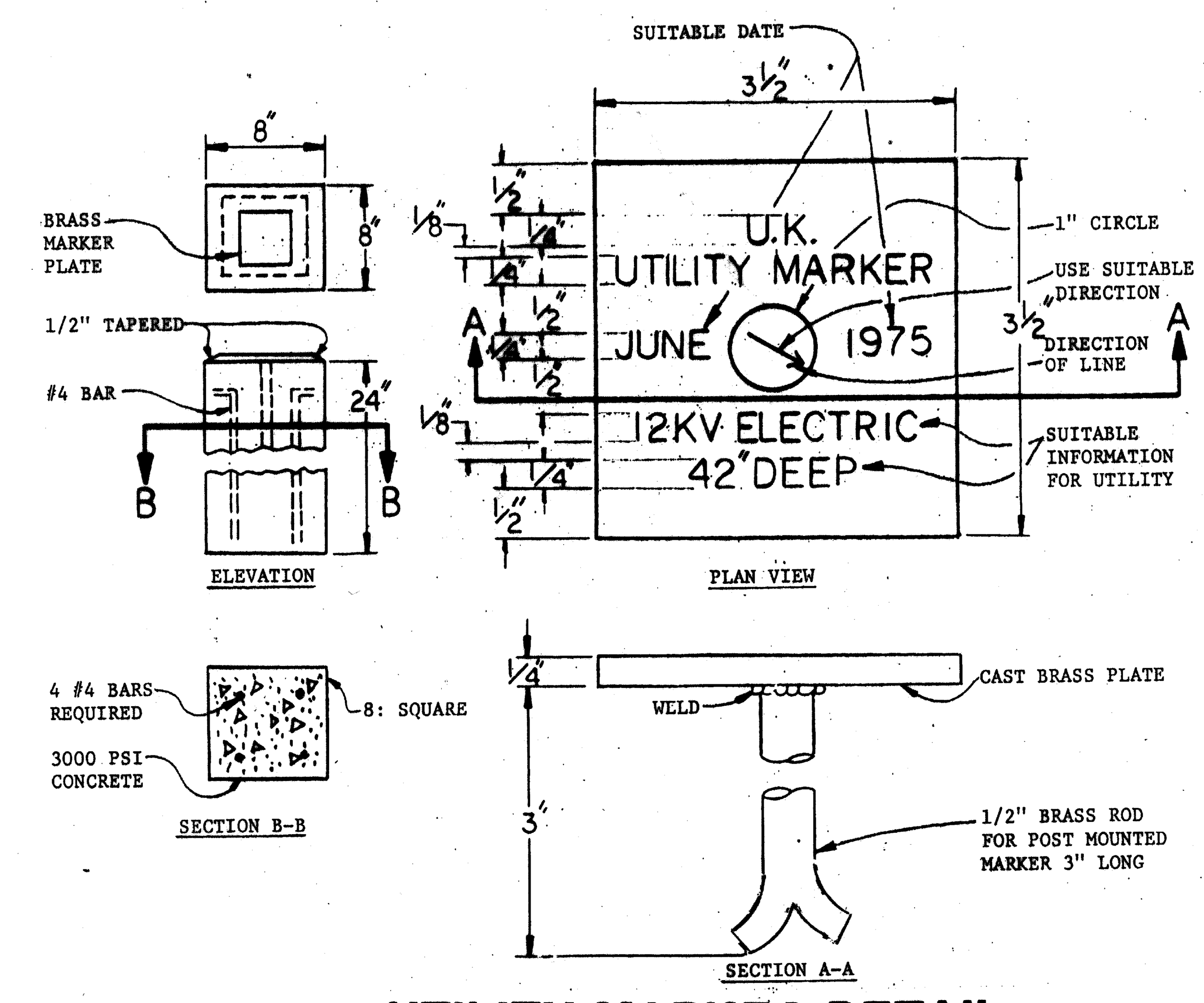


EXPANSION LOOP DETAIL
NO SCALE

ALL SUPPORT POINTS SHOWN ARE TO ALLOW FOR HORIZONTAL PIPE MOVEMENT. COLD SPRING ALLOWED ONLY FOR OUTER CONDUIT SIZING

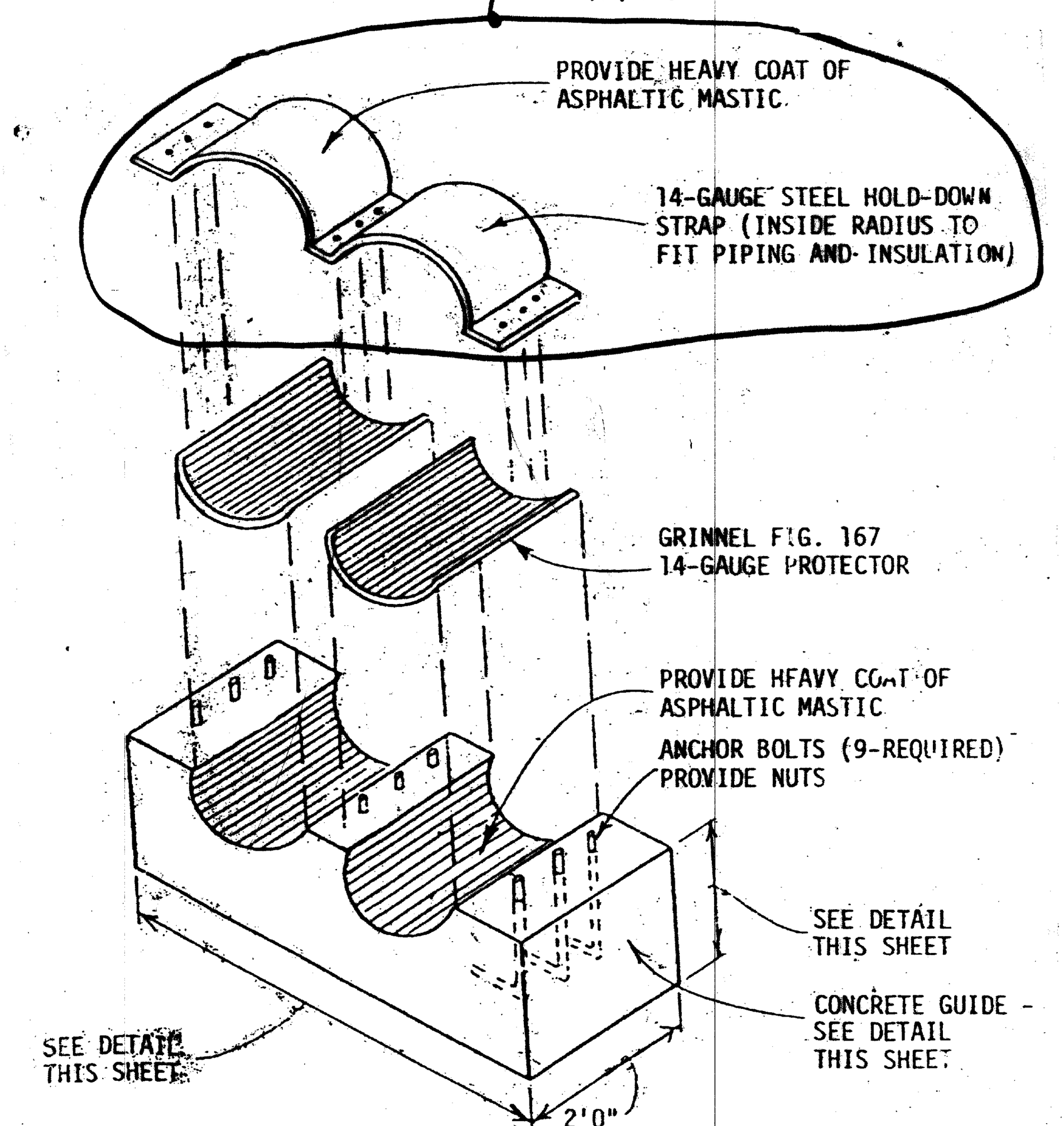


EXPANSION LOOP DETAIL
NO SCALE

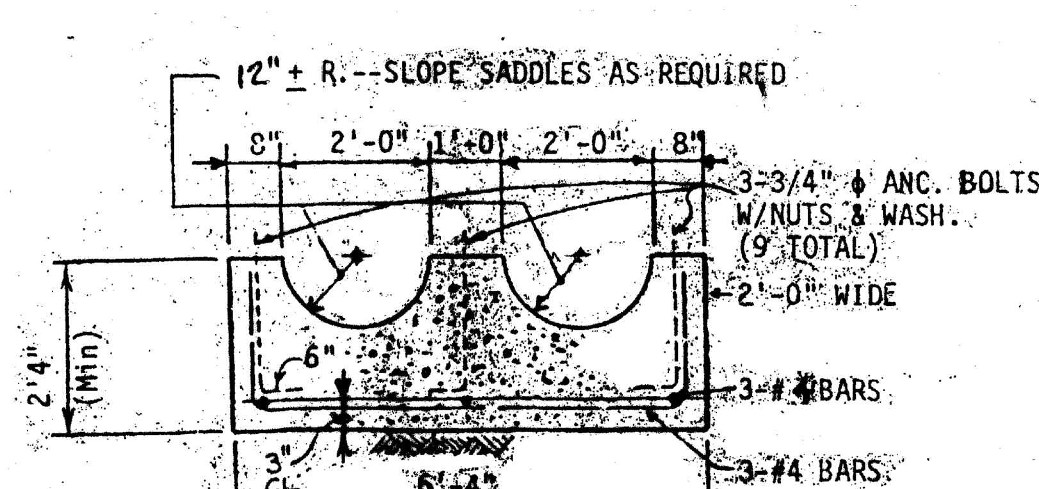


UTILITY MARKER DETAIL
NO SCALE

OMIT



TYPICAL PIPE GUIDE DETAIL
NO SCALE



12" PIPE GUIDE DETAIL
NO SCALE

RECORD PRINTS

THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND WHICH THE ENGINEER CONSIDERS SIGNIFICANT

MASON & HANGER ENGINEERING INC.
ARCHITECT • ENGINEERS
LEXINGTON, KENTUCKY

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington Kentucky

STEAM DETAILS

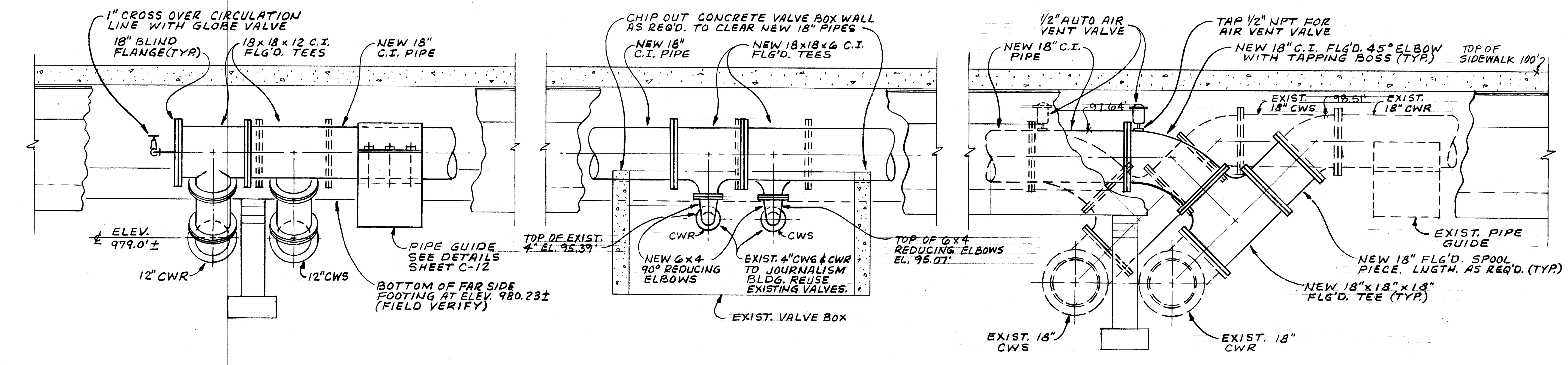
Sherman Carter Barnhart
PARTNERS IN ARCHITECTURE

JOB NO.	2046
DATE	10-19-87
DRAWN	FDK
CHECKED	
FILE NO.	431.0

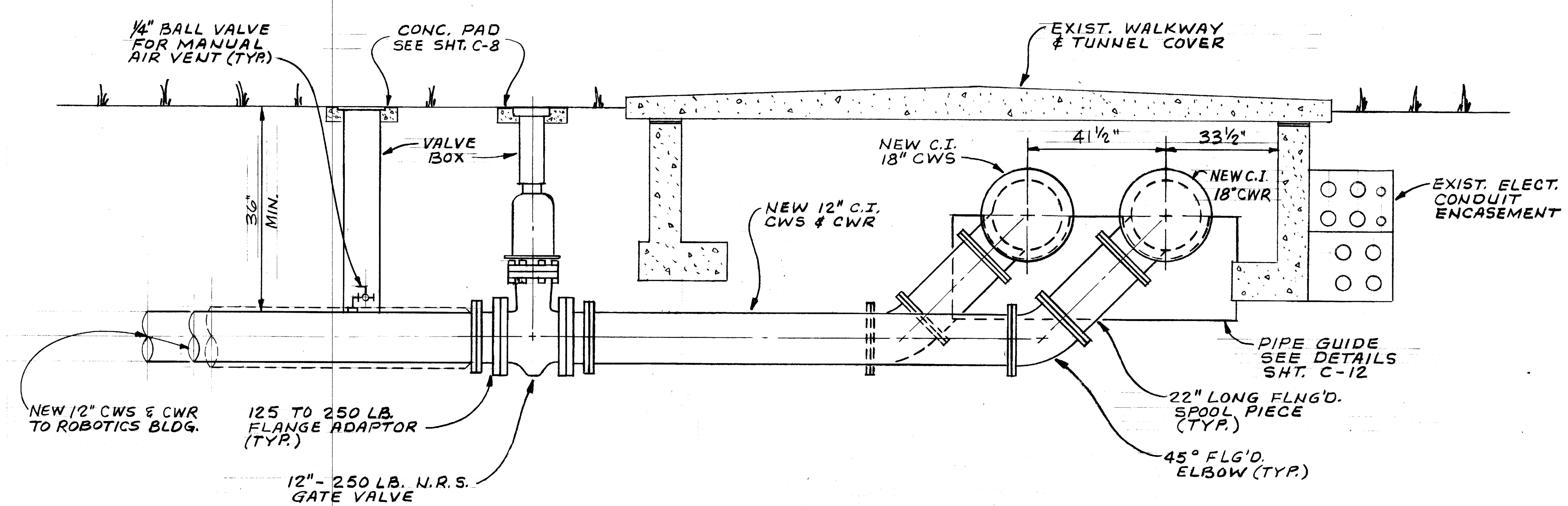
REVISIONS

SHEET

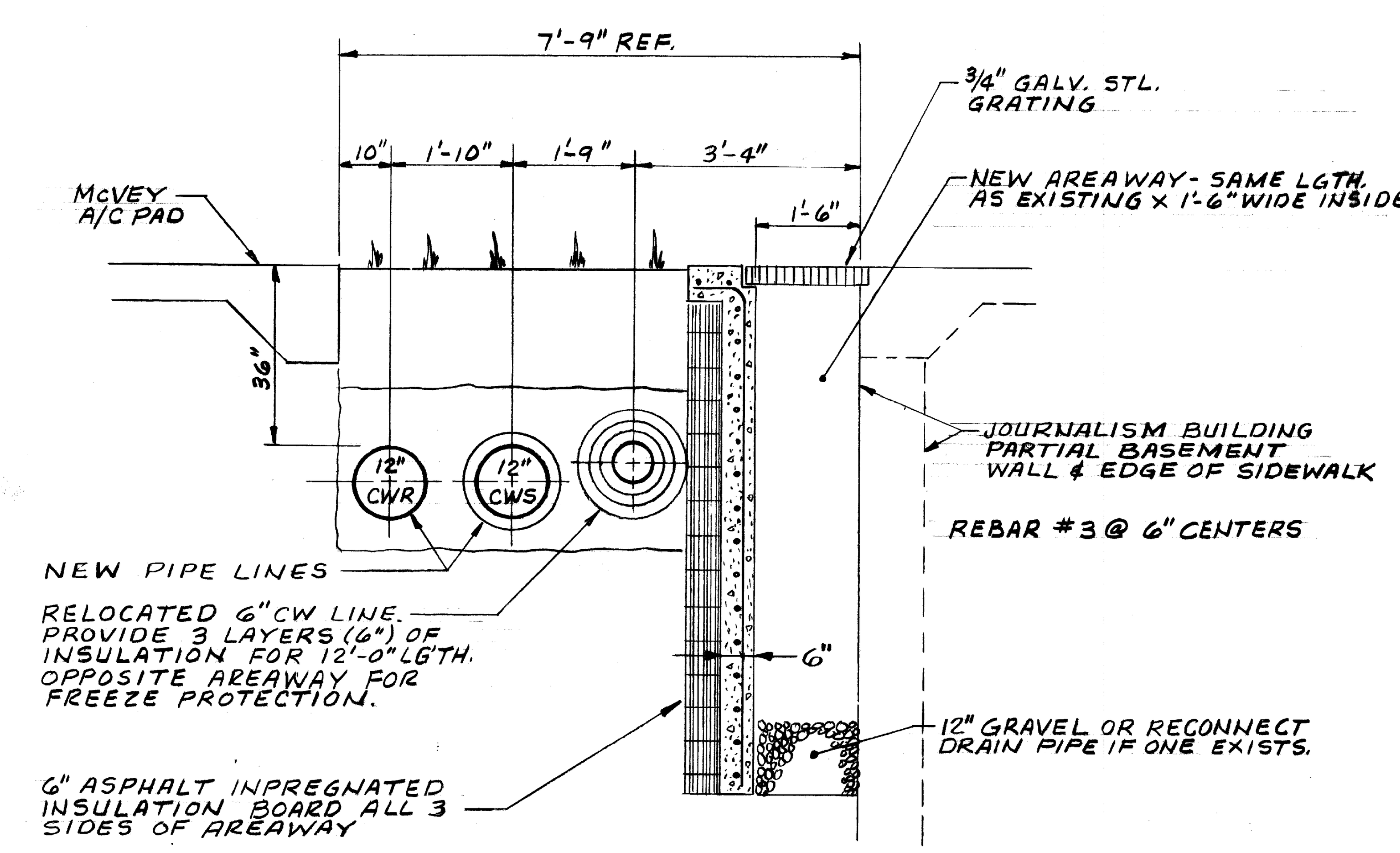
C-12



SECTION (A / C-11)
SCALE: 1/2" = 1'-0"



SECTION (B / C-11)
SCALE: 1/2" = 1'-0"



SECTION (C / C-11)
SCALE: 1/2" = 1'-0"

NOTE:
BOTH THE CWS AND THE CWR LINES LOCATED WITHIN THE PIPING TUNNEL SHALL BE INSULATED. CWS LINE ONLY SHALL BE INSULATED OUTSIDE OF THE TUNNEL WHERE BURIED.

RECORD PRINTS

THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND WHICH THE ENGINEER CONSIDERS SIGNIFICANT

MASON & HANGER ENGINEERING INC.
ARCHITECT • ENGINEERS
LEXINGTON, KENTUCKY

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved by: director - design and construction division
11-19-87

CHILLED WATER & STEAM DETAILS

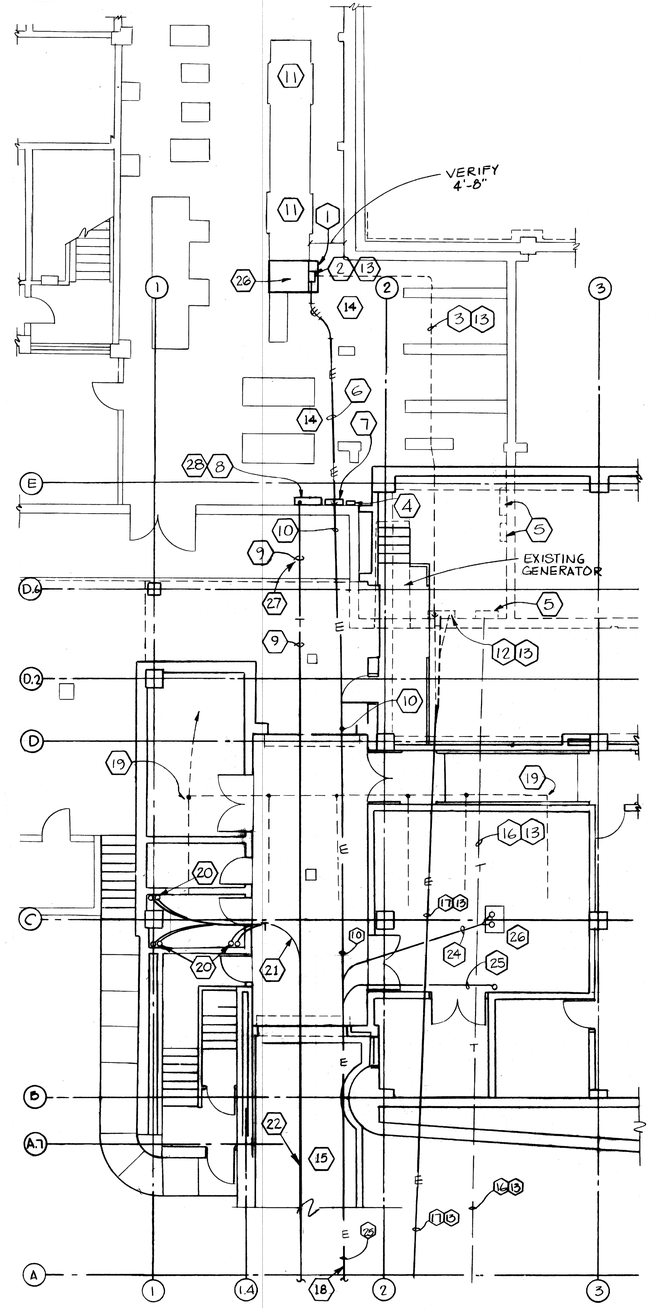
Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE

JOB NO.	20
DATE	10-13-
DRAWN	G
CHECKED	
FILE NO.	431.0

REVISIONS

Cab # 82 | Slot A-1 | Document # 004847

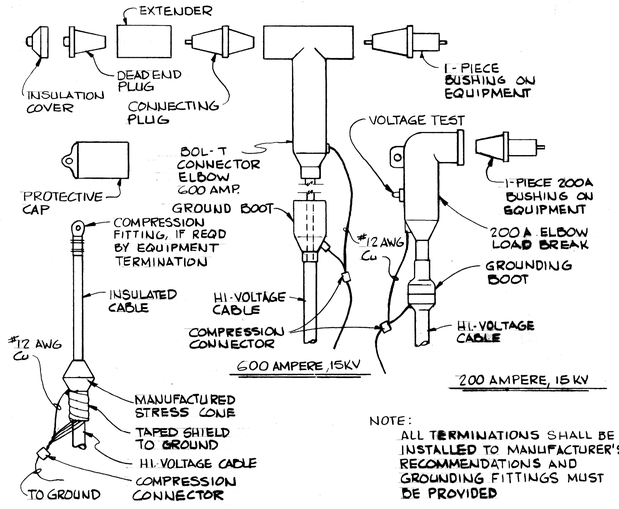
SHEET
C-13



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

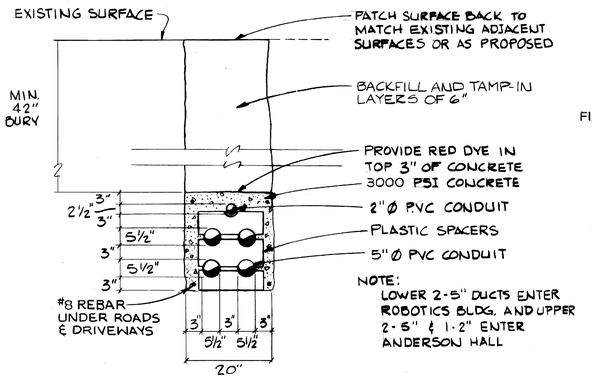
NOTES - ELECTRICAL

1. NEW WIREWAY 8" x 30" x 92".
2. EXISTING 8" x 12" x 72" WIREWAY.
3. EXISTING H.V. LINE IN 5" C NEAR CEILING
4. EXISTING SWITCH.
5. EXISTING TELEPHONE PANELS.
6. NEW 5" RMC A 8' A.F.F. ADJ. TO ROOF LEADER LINE. LABEL 12 KV
7. NEW J-BOX 24" 36" x 8".
8. NEW TELEPHONE J BOX 36" x 48" x 10" WITH PLYWOOD BACK.
9. NEW TELEPHONE CONDUITS, (4) 4" PVC ENCASED.
10. NEW ELECTRIC DUCTBANK: 1 - 5" PVC with 3 - 4/0 15 KV & 4/0 THW COPPER CONDUCTS, 1 - 5" PVC SPARE ENCASED THE CONCRETE.
11. EXISTING ELECTRIC SWITCHGEAR, DOUBLE ENDED SUBSTATION.
12. EXISTING 24" x 36" x 6" J-BOX.
13. REMOVE COMPLETELY.
14. RELOCATE ANY LIGHT FIXTURES, CONDUITS, ETC. TO INSTALL NEW.
15. MAINTAIN 12" SEPARATION BETWEEN TELEPHONE AND ELECTRIC CONDUITS (6" BETWEEN BANKS.)
16. EXISTING TELEPHONE DUCTBANK.
17. EXISTING 12 KV ELECTRIC DUCTBANK.
18. TO MANHOLE E-110, FOR CONTINUATION, SEE DRAWING C-9.
19. EXISTING GROUND GRID (3/0 CU. ATTACHED TO 10 FT. GROUND RODS, 6 FT ON CENTERS): RELOCATE AS SHOWN ON SITE PLAN.
20. NEW (2) 4" CONDUIT (12" A.F.F.) TURNED UP INTO COMM. ROOM.
21. NEW (5) 4" PVC (1) 4" FIBER OPTIC PVC ENCASED, TELEPHONE.
22. NEW (9) 4" PVC (1) 4" FIBER OPTIC PVC ENCASED, TELEPHONE.
23. NEW ELECTRICAL DUCTBANK: 2 - 5" PVC WITH 3 - 4/0 15 KV & 4/0 THW COPPER CONDUCTORS, 2 - 5" PVC & 1 - 2" PVC SPARE ENCASED IN CONCRETE, SEE DETAIL THIS SHEET.
24. NEW ELECTRICAL DUCTBANK: 1 - 5" PVC WITH 3 - 4/0 15 KV & 1 - 4/0 THW COPPER CONDUCTORS, 1 - 5" PVC SPARE ENCASED IN CONCRETE.
25. 2" RIGID STEEL CONDUIT STUBBED UP 6" ALONG WALL.
26. TERMINATE 15 KV CABLE AT SWITCH ENCLOSURE USING 15 KV CLASS HEAT SHRINKABLE TERMINATOR KITS EQUAL TO RAYCHEM HVT-150.
27. EXISTING CONCRETE RAMP, DEMOLISH & REPAIR.
28. PROVIDE 1-TRIAX, HONEYWELL - AK3605 WITH 1 - INTERCOM (DELTA 2000 SYSTEM) FROM THE EXISTING DELTA 2000 PANEL IN ANDERSON HALL TO THE NEW DELTA 2000 PANEL IN ROBOTICS. ROUTE CABLES FROM THE EXISTING DELTA 2000 PANEL ON THE EAST WALL OF THE MECHANICAL ROOM IN EXISTING CONDUIT TO TELEPHONE RM 89 APPROX. 100 FT. FROM TELEPHONE RM 89 ROUTE IN CONDUIT, PROVIDED BY INTERIOR ELECTRICAL, TO DUCT BANK ENTRANCE (SEE ITEM 8). ROUTE IN DUCT BANK TO MANHOLE U-81, THRU MANHOLE TO ROBOTICS DUCT BANK AND INTO ROBOTICS COMMUNICTION ROOM.



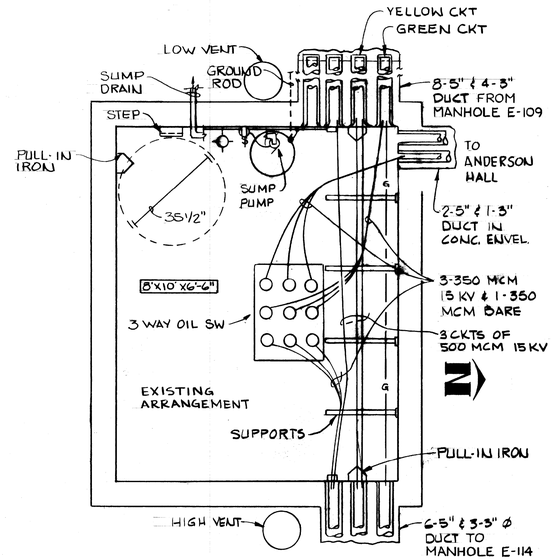
NOTE:
ALL TERMINATIONS SHALL BE INSTALLED TO MANUFACTURER'S RECOMMENDATIONS AND GROUNDING FITTINGS MUST BE PROVIDED

HIGH-VOLTAGE TERMINATIONS
NOT TO SCALE



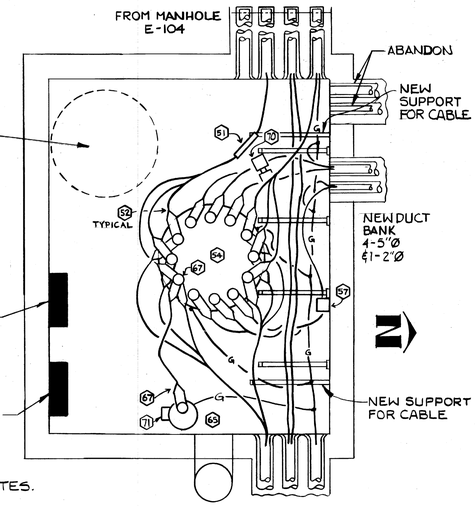
NOTE:
LOWER 2-5" DUCTS ENTER ROBOTICS BLDG. AND UPPER 2-5" & 1-2" ENTER ANDERSON HALL

ELECTRICAL DUCTBANK CROSS SECTION
NOT TO SCALE



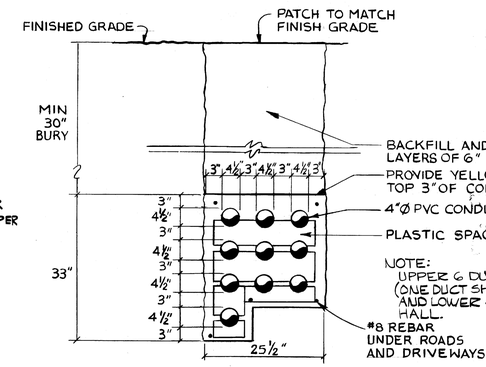
EXISTING MANHOLE E-110
APPROX. SCALE 1/2"=1'

PROVIDE NEW 38" DIAMETER MANHOLE COVER-ROADWAY STRENGTH AND MARK "ELECTRICAL" W/ MANHOLE NO. 110



NOTE:
SEE SHEET C-15 FOR NOTES.

REVISED MANHOLE E-110



NOTE:
UPPER 6 DUCTS ENTER ROBOTICS (ONE DUCT SHALL BE FIBER OPTIC DUCT) AND LOWER 4 DUCTS ENTER ANDERSON HALL.

TELEPHONE DUCTBANK CROSS SECTION
NOT TO SCALE.

RECORD PRINTS
THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND WHICH THE ENGINEER CONSIDERS SIGNIFICANT

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by
director - design and construction division

POWER AND COMMUNICATION

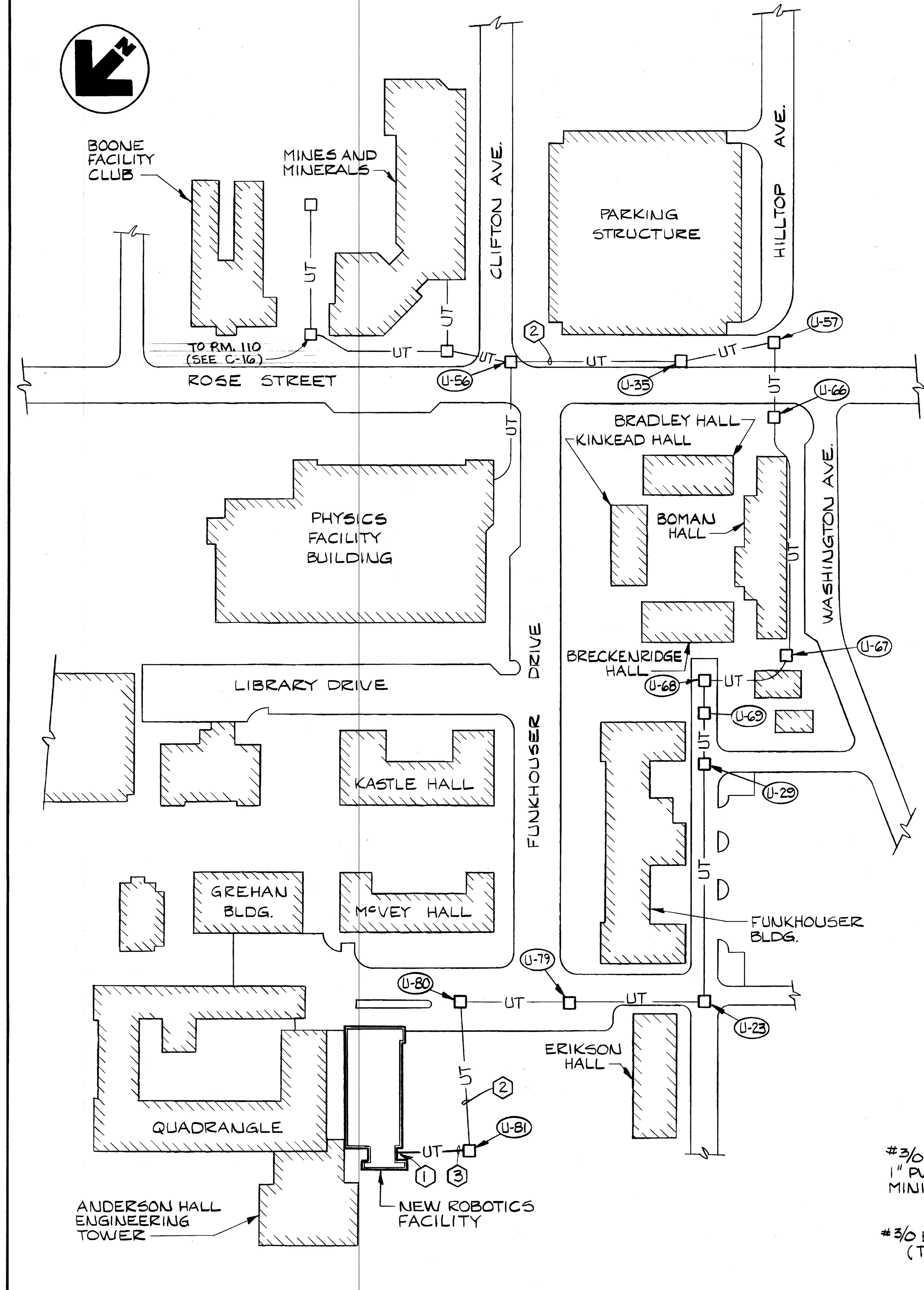
Herman·Carter·Burnhart
PARTNERS IN ARCHITECTURE
SUITE 400 • 160 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-4361

JOB NO. 2046
DATE 10-19-87
DRAWN J.W.
CHECKED L.D.C.
FILE NO. 4B1.0

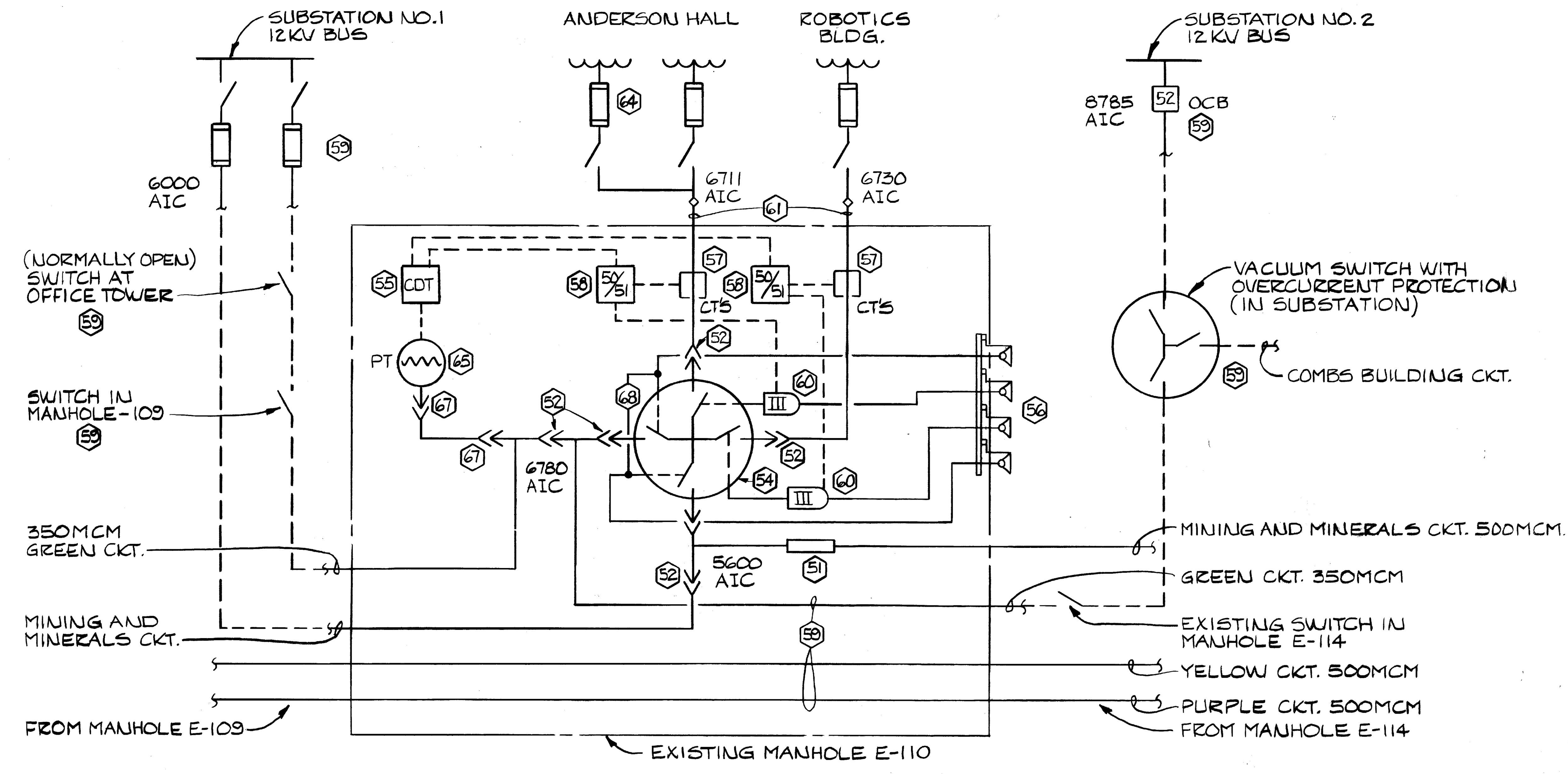
REVISIONS

Cab # Slot Document # 004848
A-1 82

SHEET
C-14



PARTIAL SITE PLAN - U. of K. CAMPUS
NO SCALE



15KV SWITCH SCHEMATIC
NO SCALE

NOTES - HIGH VOLTAGE VACUUM SWITCH SHEETS C14 & C15

(51) NEW 15 KV IN-LINE SPLICE.

(52) NEW 600 AMPERE ELBOW TERMINATION

(53) OMITTED

(54) NEW HIGH VOLTAGE VACUUM SWITCH.

(55) NEW CAPACITOR DISCHARGE & TRIP DEVICE

(56) NEW REMOTE MANUAL OPERATORS GROUPED AT MANHOLE ENTRANCE. OPERATORS TO BE PROVIDED WITH 5 FOOT CABLE SLACK AND TO BE MOUNTED ON PORTABLE SWITCH STAND.

(57) NEW 400:5 CURRENT TRANSFORMERS. MOUNTED ON WALL.

(58) NEW RELAY PACKAGE.

(59) EXISTING.

(60) SPRING LOADED SWITCH OPERATOR.

(61) NEW 3 #4/0 CU., 15 KV AND 1 #4/0 CU THW.

(62) OMITTED

(63) OMITTED

(64) EXISTING DOUBLE ENDED SUBSTATION.

(65) POTENTIAL TRANSFORMER.

(66) OMITTED

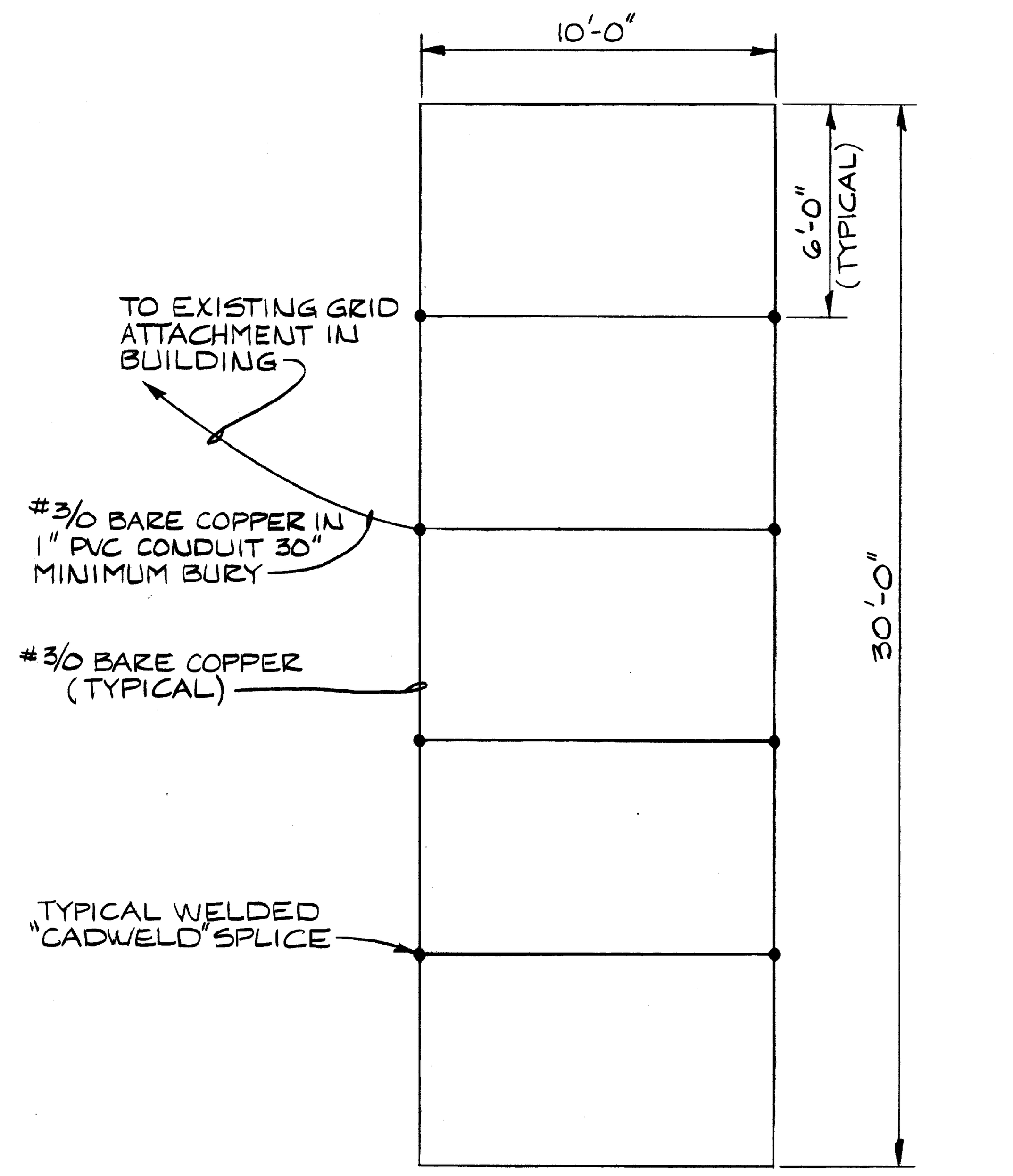
(67) 200 AMP LOAD BREAK ELBOW W/ADAPTER AT SWITCH.

(68) MECHANICAL INTERLOCK BETWEEN SWITCH LEGS.

(69) SEE SPECIFICATIONS FOR INSTALLATION & OUTAGE SEQUENCE.

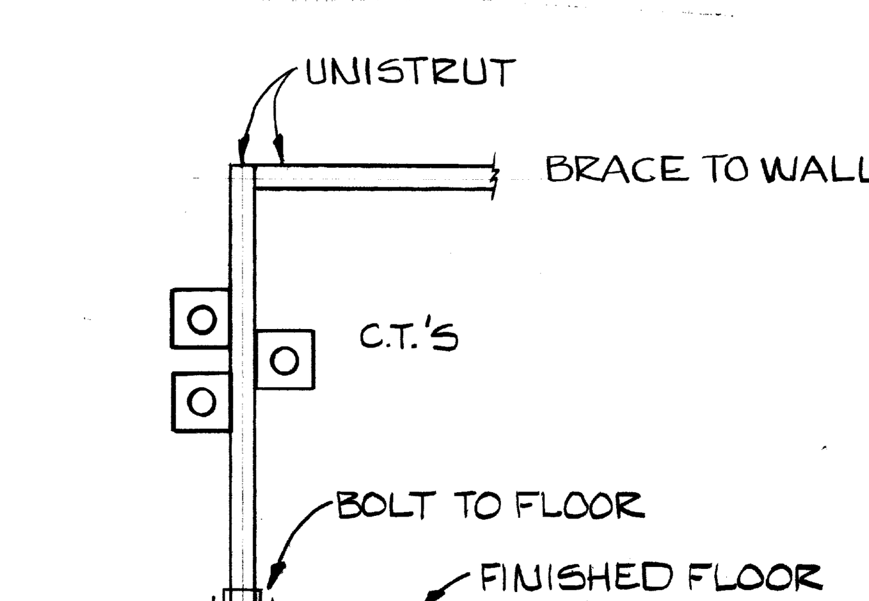
(70) NEW 400:5 CURRENT TRANSFORMERS. SEE DETAIL BELOW.

(71) CONTROL WIRING (NOT SHOWN) TO BE INSTALLED IN RIGID STEEL CONDUIT. ALL CONNECTIONS TO BE INSULATED.



NOTE:
GRID IS TO BE BURIED 30" BELOW FINAL GRADE.

GROUND GRID DETAIL
NO SCALE



C.T. MOUNTING DETAIL
NO SCALE

(1.) SEE SHEET C-9 FOR LOCATION OF DUCTBANK BETWEEN MANHOLE U-81 AND THE ROBOTICS FACILITY.

(2.) A NEW 7-PAIR FMS CABLE TO BE INSTALLED IN EXISTING SPARE DUCTBANK FROM EXISTING 560 PANEL IN MINES AND MINERALS TO MANHOLE U-81.

(3.) A NEW 9-WAY, 4 INCH DUCTBANK WILL PROVIDE 3 - 4 DUCTS INTO ANDERSON HALL AND 6 - 4 INCH DUCTS INTO ROBOTICS. ONE OF THE 4 INCH DUCTS WILL CARRY THE 7-PAIR FMS CABLE FROM U-81 TO ROTOBICS COMMUNICATIONS ROOM

RECORD PRINTS

THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND WHICH THE ENGINEER CONSIDERS SIGNIFICANT

MASON & HANGER ENGINEERING INC.
ARCHITECT • ENGINEERS
LEXINGTON, KENTUCKY

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved by [signature] 10.19.92
director - design and construction division

POWER AND COMMUNICATION

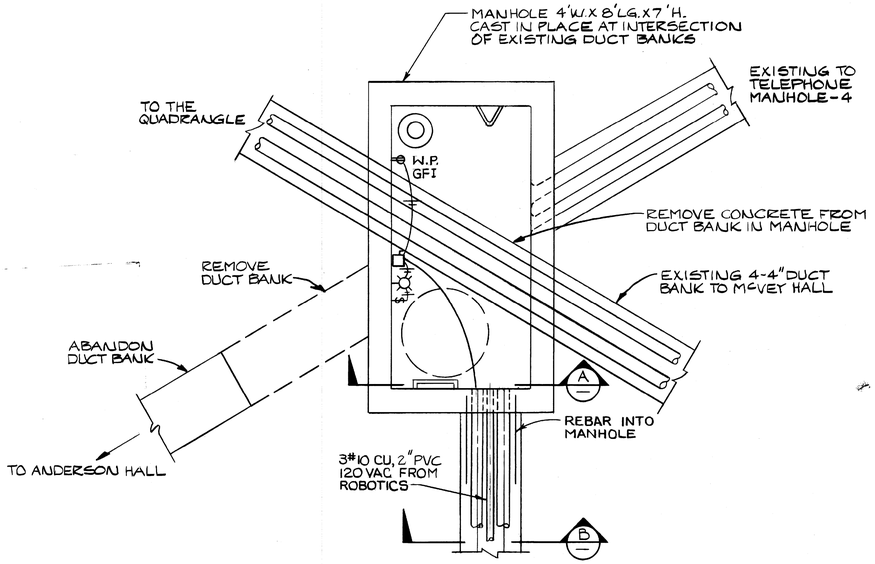
Sherman · Carter · Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606/254-1351

JOB NO.	2046
DATE	10-19-87
DRAWN	T.M.G.
CHECKED	L.D.C.
FILE NO.	431.0

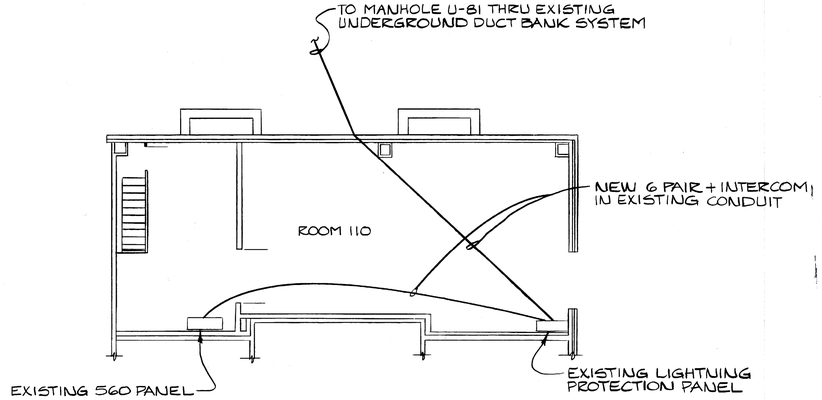
REVISIONS

SHEET
C-15

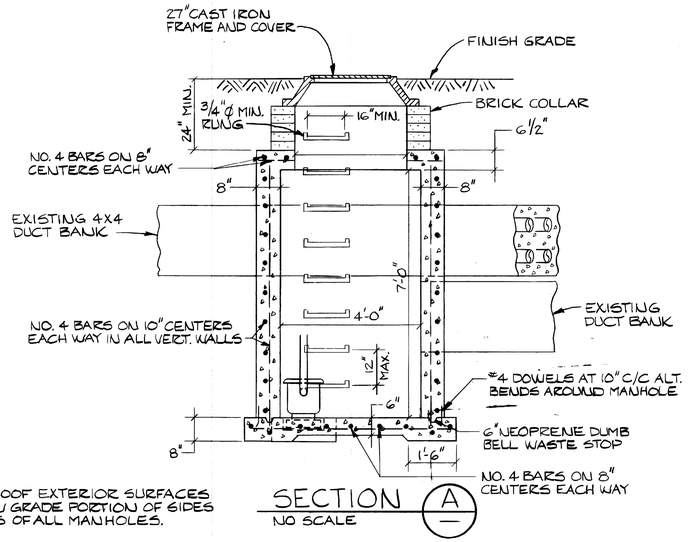
NOTE: CONTRACTOR SHALL COORDINATE INSTALLATION OF MANHOLE WITH RELOCATION OF EXISTING WATER LINE.



NEW TELEPHONE MANHOLE DETAIL
SCALE: ½"=1'-0"

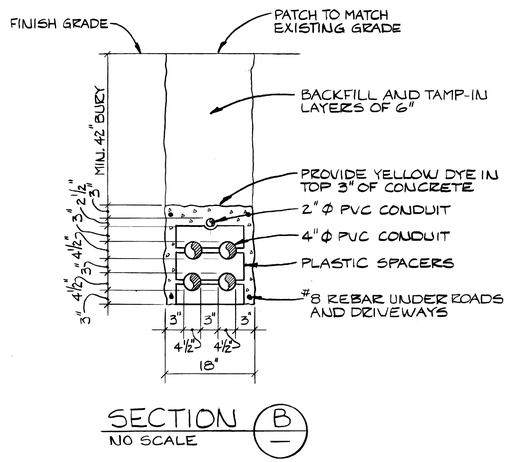


MINES AND MINERALS PARTIAL PLAN
SCALE: 1/8"=1'-0"



NOTE:
WATERPROOF EXTERIOR SURFACES OF BELOW GRADE PORTION OF SIDES AND TOPS OF ALL MANHOLES.

SECTION A
NO SCALE



SECTION B
NO SCALE

RECORD PRINTS
THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND WHICH THE ENGINEER CONSIDERS SIGNIFICANT.

MASON & HANGER ENGINEERING INC.
ARCHITECT • ENGINEERS
LEXINGTON, KENTUCKY

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

COMMUNICATION DETAILS

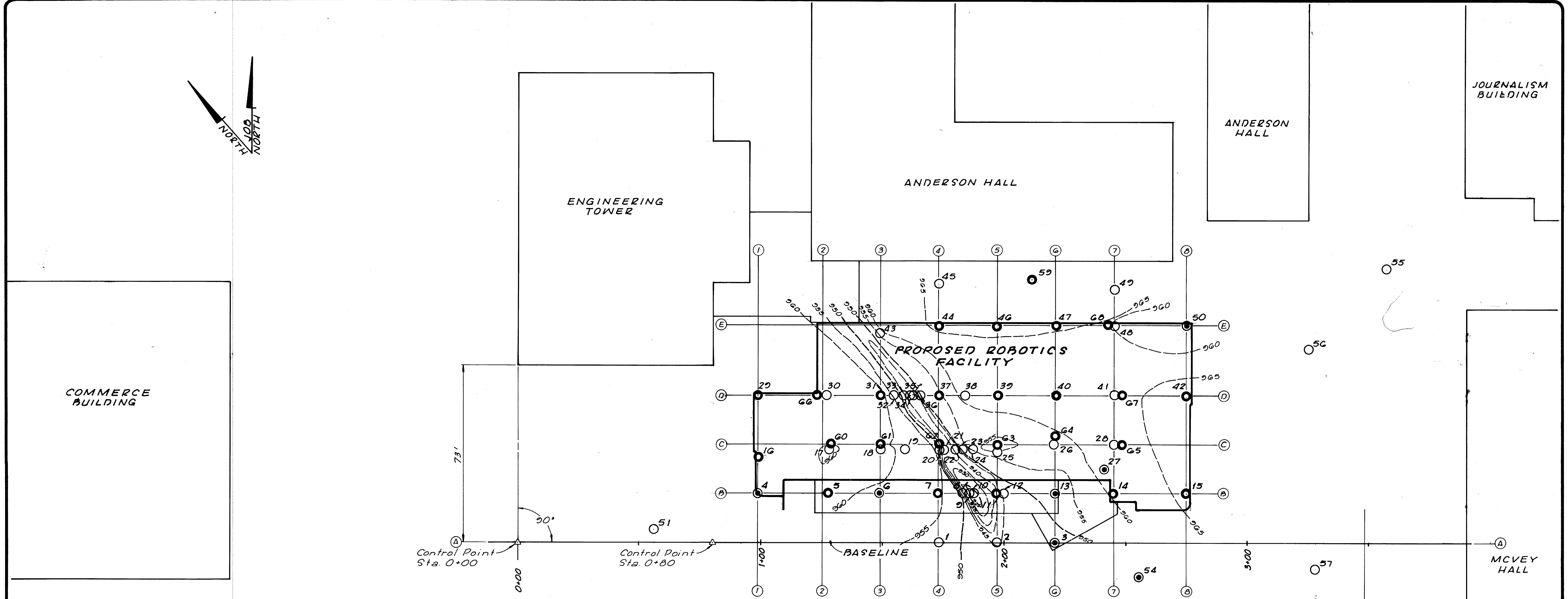
Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
CIVIL • MECH • ELEC • PLMB • STRUCT • LEXINGTON, KY • (606) 254-1755

JOB NO 2046
DATE 10-19-87
DRAWN TMG
CHECKED L.D.C.
FILE NO. 431.0

REVISIONS

SHEET
C-16

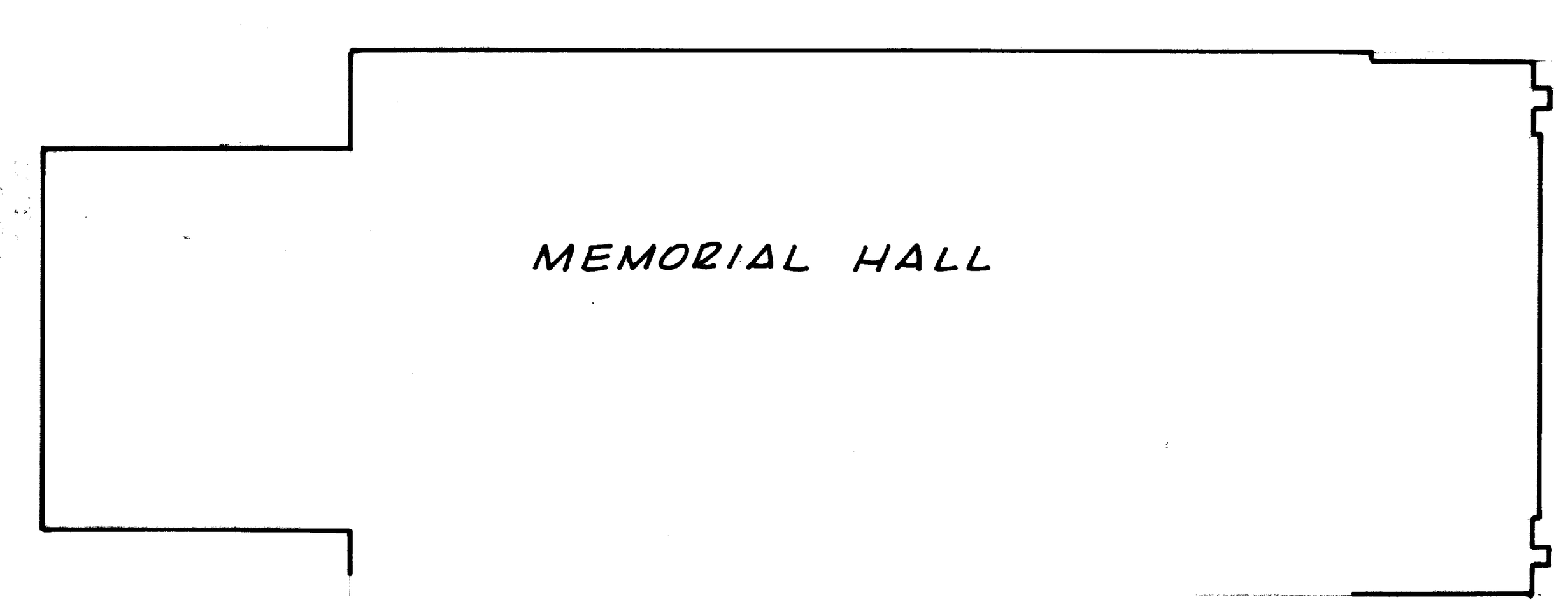
Cab # 82 Slot A-1 Document # 004859



BORING LOCATIONS

Boring No.	Surface Elev. (Ft.)	Station	Offset (Ft.)*	Column Location
1	961.0	1+73	0	
2	961.2	1+97	0	
3	963.2	2+21	0	A-6
4	966.5	0+99	20	B-1
5	963.3	1+28	20	B-2, (3' East)
6	961.3	1+49	20	B-3
7	961.0	1+73	20	B-4
8	961.6	1+83	20	
9	961.7	1+86	20	
10	961.6	1+88	20	
11	961.7	1+97	20	B-5
12	961.7	2+00	20	
13	963.3	2+21	20	B-6
14	967.0	2+45	20	B-7
15	972.1	2+75	20	B-8
16	966.7	0+99	35	C-1, (5' South)
17	963.7	1+28	38	C-2, (2' South, 3' East)
18	964.1	1+49	38	C-3, (2' South)
19	964.3	1+59	38	
20	964.5	1+73	38	C-4, (2' South)
21	964.5	1+75	38	
22	964.8	1+80	38	
23	964.9	1+83	38	
24	965.0	1+87	38	
25	965.4	1+97	37	C-5, (3' South)
26	966.0	2+20	40	C-6, (1' West)
27	968.0	2+41	30	
28	971.0	2+45	40	C-7
29	962.1	0+99	60	D-1
30	962.7	1+27	60	D-2, (2' East)
31	964.4	1+49	60	D-3
32	964.7	1+54	60	
33	965.0	1+58	60	
34	965.3	1+61	60	
35	965.6	1+62	60	
36	965.8	1+65	60	
37	966.0	1+73	60	D-4
38	967.0	1+84	60	
39	967.9	1+97	60	D-5
40	969.7	2+21	60	D-6
41	971.6	2+45	60	D-7
42	973.8	2+75	60	D-8
43	976.2	1+49	86	E-3, (3' South)
44	976.0	1+73	89	E-4
45	975.9	1+73	106	
46	975.8	1+97	89	E-5
47	975.5	2+21	89	E-6
48	975.7	2+45	89	E-7
49	975.6	2+45	104	
50	975.4	2+75	89	E-8
51	966.0	0+56	5	
52	965.1	1+36	81 Rt.	
53	968.2	2+54	59 Rt.	
54	969.2	2+55	14 Rt.	
55	978.8	3+57	112	
56	977.7	3+25	79	
57	973.9	3+28	11 Rt.	
58	971.3	3+21	73 Rt.	
59	975.6	2+11	108	
60	963.4	1+28	40	C-2, (3' East)
61	964.0	1+49	40	C-3
62	965.5	1+73	40	C-4
63	967.4	1+97	40	C-5
64	969.7	2+21	44	C-6, (4' North)
65	971.4	2+48	40	C-7, (3' East)
66	962.5	1+23	60	D-2, (2' West)
67	971.8	2+49	60	D-7, (4' East)
68	975.7	2+43	89	E-7, (2' West)

* Offsets are to the left unless noted otherwise.



NOTES:

1) THE ROCK CONTOURS SHOWN ON THIS SHEET ARE THE RESULT OF STRAIGHT LINE INTERPOLATION BETWEEN ROCK CONTACT POINTS AT EACH BORING LOCATION. THESE CONTOURS ARE PRESENTED FOR ILLUSTRATION PURPOSES ONLY AND SHOULD NOT BE USED BY THE CONTRACTOR FOR CONSTRUCTION OF THE PROJECT. ACTUAL ROCK CONTOURS BETWEEN BORINGS ARE UNKNOWN AND MAY DIFFER FROM THOSE SHOWN.

2) LAYOUT OF THE ROBOTICS FACILITY AND LOCATION OF ADJACENT STRUCTURES WERE SCALED FROM A DRAWING PROVIDED BY SHERMAN/CARTER/BARNHART ARCHITECTS ENTITLED "SITE DEVELOPMENT PLAN" - SHT. SD.1 OF PHASE "A" SUBMITTAL DATED JULY 10, 1987.

3) ELEVATION BENCHMARK: TOP OF 12-INCH DIAMETER CONCRETE POST 39.2 FEET FROM SW CORNER OF STEAM GALLERY ADJACENT TO MCVEY HALL AND 68.0 FEET FROM NW CORNER OF STEAM GALLERY NEAR MEMORIAL HALL. (BENCHMARK OBTAINED FROM UNIVERSITY OF KENTUCKY, DESIGN AND CONSTRUCTION BRANCH) ELEV. 974.51 FT.

BENCHMARK ELEV. 974.51. (See note 3)

← FUNKHOUSER DRIVE →

LEGEND

- ○ Rock Sounding.
- ◉ Soil Boring with Undisturbed (Shelby) Tube Samples and Rock Core.
- **O** Rock Core Boring.
- --950-- Rock Contours (See Note 1)
- △ Survey Monument.

RECORD PRINTS

THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND WHICH THE ENGINEER CONSIDERS SIGNIFICANT

BORING LAYOUT

ROBOTICS FACILITY - UNIVERSITY OF KENTUCKY

STATE OF KENTUCKY JEFFREY A. HAY 13486 REGISTERED PROFESSIONAL ENGINEER

FULLER, MOSSBARGER, SCOTT AND MAY CIVIL ENGINEERS, INC.
1409 FORBES ROAD
LEXINGTON, KENTUCKY 40505

DRAWN BY S.F.S.	DATE Aug., 1987	REVISED	SHEET
CHECKED BY K.O.H.	PROJECT NO. 87178		1 OF 5
CHECKED BY W.A.M.	SCALE 1" = 20'		

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

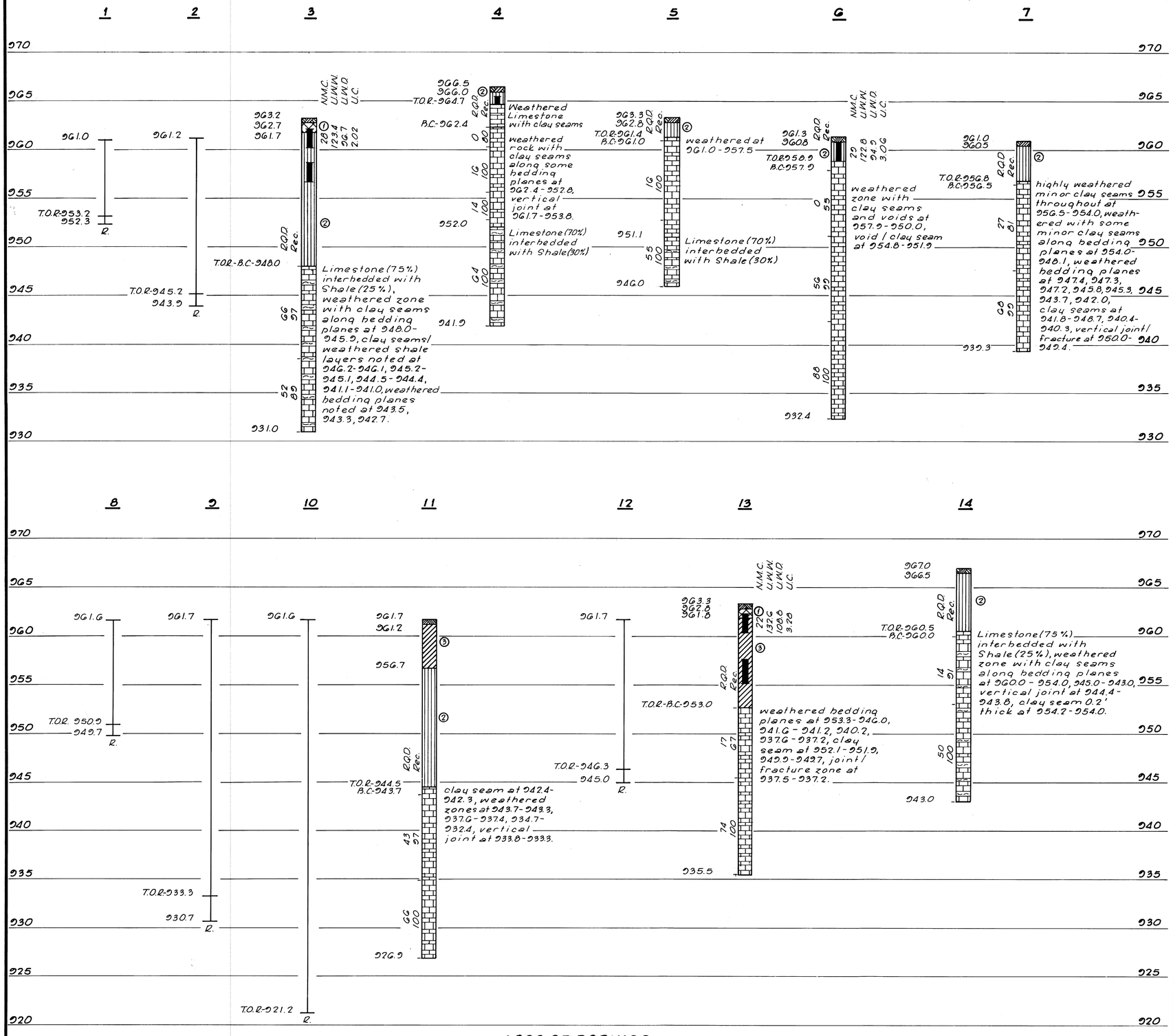
University of Kentucky
Lexington, Kentucky
approved by director - design and construction division
date 10.19.87

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-1351

JOB NO.	8706
DATE	
DRAWN	
CHECKED	CEB
FILE NO.	431.0

REVISIONS

SHEET
C-17



LOGS OF BORINGS
SCALE: 1"=5'(vert. only).

LEGEND

- Topsoil
- Bituminous Pavement.
- ① Fill Material: silt, dark brown with construction debris.
- ② Silt, dark brown, dry to moist, stiff.
- ③ Fat Clay with Sand, light to dark reddish brown, moist, medium to stiff.
- Limestone interbedded with Shale; Limestone, gray, fine to coarse crystalline grained with shale partings and stringers, fossiliferous, moderately hard to hard; Shale, gray, calcareous, moderately to hard.
- Limestone, gray, weathers brown, fine to coarse crystalline grained with shale partings and stringers, moderately hard to hard.
- I Undisturbed Thin-walled(Shelby) Tube Sample Interval.

N.M.C. Natural Moisture Content(%).
U.W.W. Unit Weight, Wet (lbs./cu.ft.).
U.W.D. Unit Weight, Dry (lbs./cu.ft.).
U.C. Unconfined Compressive Strength (tons/sq.ft).
R. Refusal
T.O.R. Top of Rock (Indicates the beginning of rock-like resistance to the advancement of the augers. This may indicate the beginning of weathered bedrock, boulders or rock remnants. An exact determination cannot be made without performing rock coring.)
B.C. Begin Rock Core.
Rec. Core Recovery (%).
R.Q.D. Rock Quality Designation (%).

NOTE: The boring logs and related information shown on this drawing depict approximate subsurface conditions only at the specific boring locations noted and at the time of drilling. Soil conditions at other locations may differ from conditions occurring at the boring locations. Also, the passage of time may result in a change in the soil at the boring locations. Any correlations shown between borings are generally based on straight line interpolation. Actual conditions between borings are unknown and may differ from those shown.

RECORD PRINTS
THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND WHICH THE ENGINEER CONSIDERS SIGNIFICANT

SOIL SUMMARY

SAMPLE NO.		3	2
STATION		Composite	Composite
OFFSET		—	—
DEPTH		—	—
Composition of Total Sample	GRAVEL (−3" + No. 4)	6	3
	SAND (−No. 4 + No. 200)	16	2
	SILT (−No. 200 + 0.005 mm)	21	56
	CLAY (−0.005 mm)	57	39
LIQUID LIMIT		69	49
PLASTIC LIMIT		25	30
PLASTICITY INDEX		44	19
ACTIVITY INDEX		0.8	1.1
SPECIFIC GRAVITY		2.80	2.68
AASHTO CLASSIFICATION		A-7-6(36)	A-7-5(20)
UNIFIED CLASSIFICATION		CH	ML
CALIF. BEARING RATIO		—	—
MAXIMUM DRY DENSITY (pcf)		98.0	—
OPTIMUM MOISTURE (%)		24.0	—

LOGS OF BORINGS

ROBOTICS FACILITY - UNIVERSITY OF KENTUCKY

STATE OF KENTUCKY · JEFFREY A. HAY · 13486 · REGISTERED PROFESSIONAL ENGINEER

FULLER, MOSSBARGER, SCOTT AND MAY
CIVIL ENGINEERS, INC.
1409 FORBES ROAD
LEXINGTON, KENTUCKY 40505

DRAWN BY S.F.S.	DATE Aug., 1987	REVISED	SHEET
CHECKED BY J.A.H.	PROJECT NO. 87178		2 OF 5
CHECKED BY W.A.M.	SCALE As Noted		

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

Director - design and construction

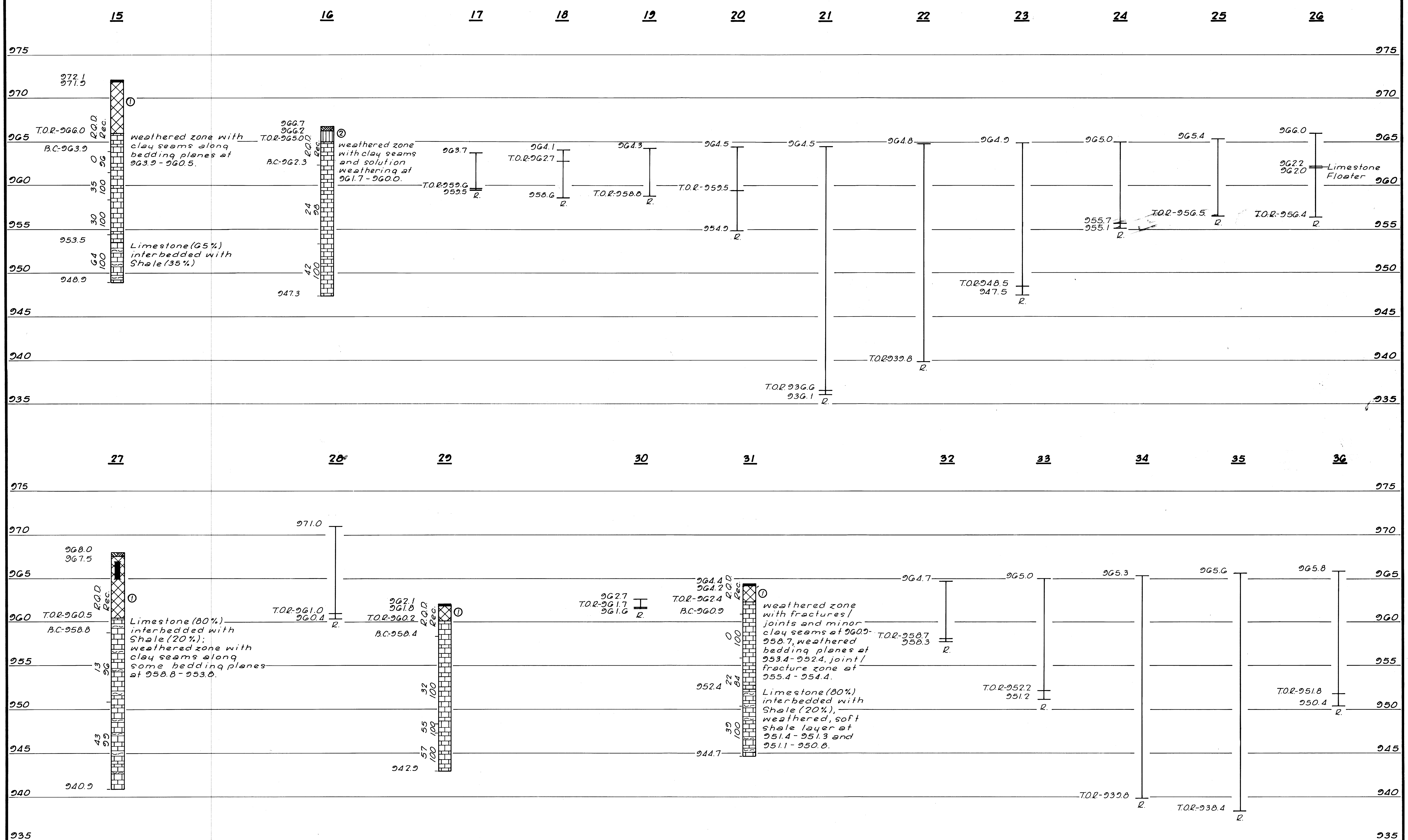
Herman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606-254-1351

JOB NO. 8709
DATE
DRAWN
CHECKED CEB
FILE NO. 431.0

REVISIONS

SHEET

Cab.# 82 Slot A-1 Document # 0948532



NOTE: The boring logs and related information shown on this drawing depict approximate subsurface conditions only at the specific boring locations noted and at the time of drilling. Soil conditions at other locations may differ from conditions occurring at the boring locations. Also, the passage of time may result in a change in the soil at the boring locations. Any correlations shown between borings are generally based on straight line interpolation. Actual conditions between borings are unknown and may differ from those shown.

LOGS OF BORINGS (CONT'D)

SCALE: 1" = 5' (vert. only)

NOTE: See Sheet 2 of 5 for Legend and Soil Summary.

RECORD PRINTS

THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND WHICH THE ENGINEER CONSIDERS SIGNIFICANT

LOGS OF BORINGS

ROBOTICS FACILITY - UNIVERSITY OF KENTUCKY

FULLER, MOSSBARGER, SCOTT AND MAY
CIVIL ENGINEERS, INC.
1409 FORBES ROAD
LEXINGTON, KENTUCKY 40505

STATE OF KENTUCKY · JEFFREY A. HAY · 13486 · REGISTERED PROFESSIONAL ENGINEER

DRAWN BY S.F.S.	DATE Aug., 1987	REVISED	SHEET
CHECKED BY J.A.H.	PROJECT NO. 87178		3 OF 5
CHECKED BY W.A.M.	SCALE As Noted		

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved by director - design and construction division

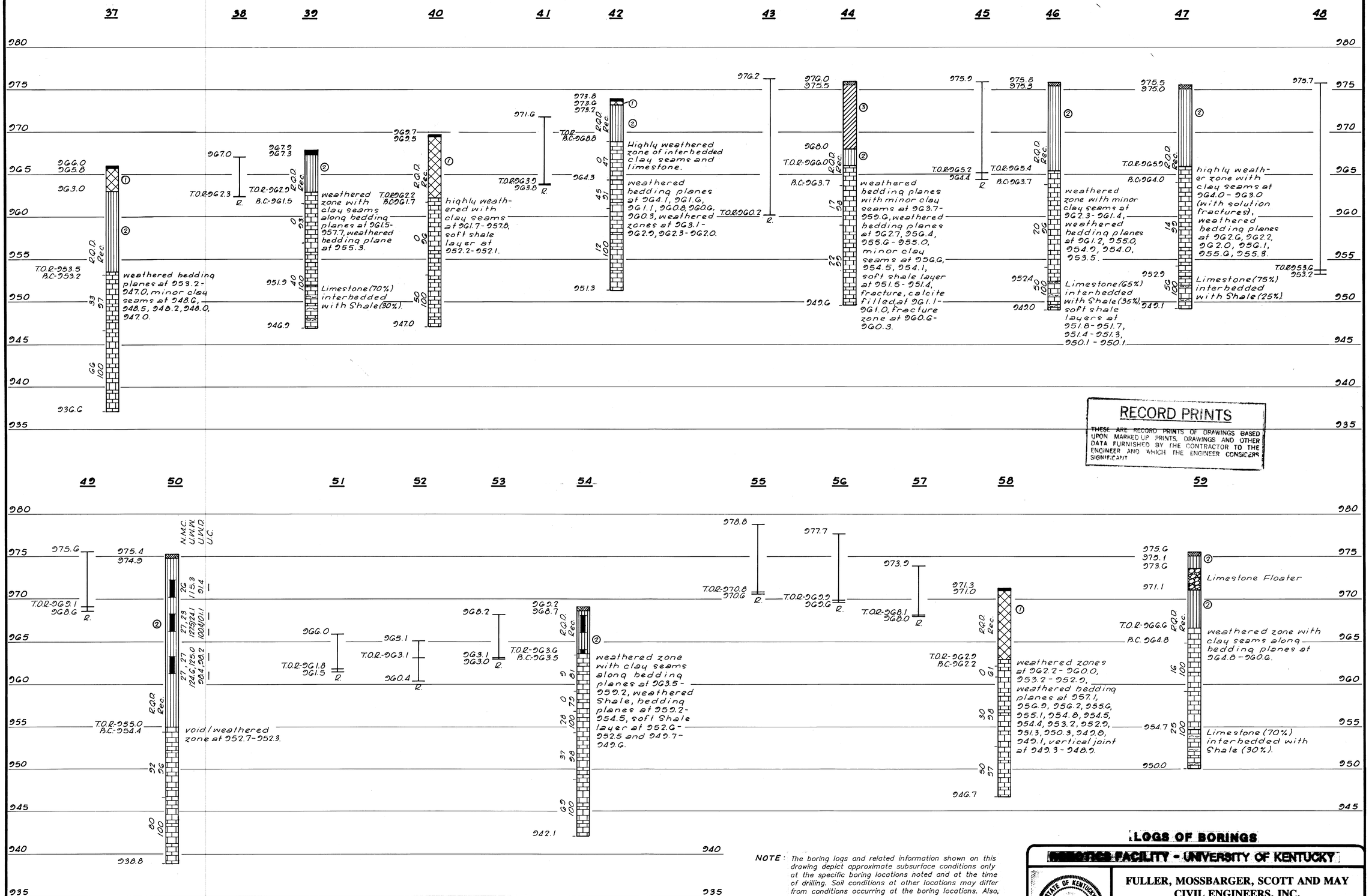
Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-1351

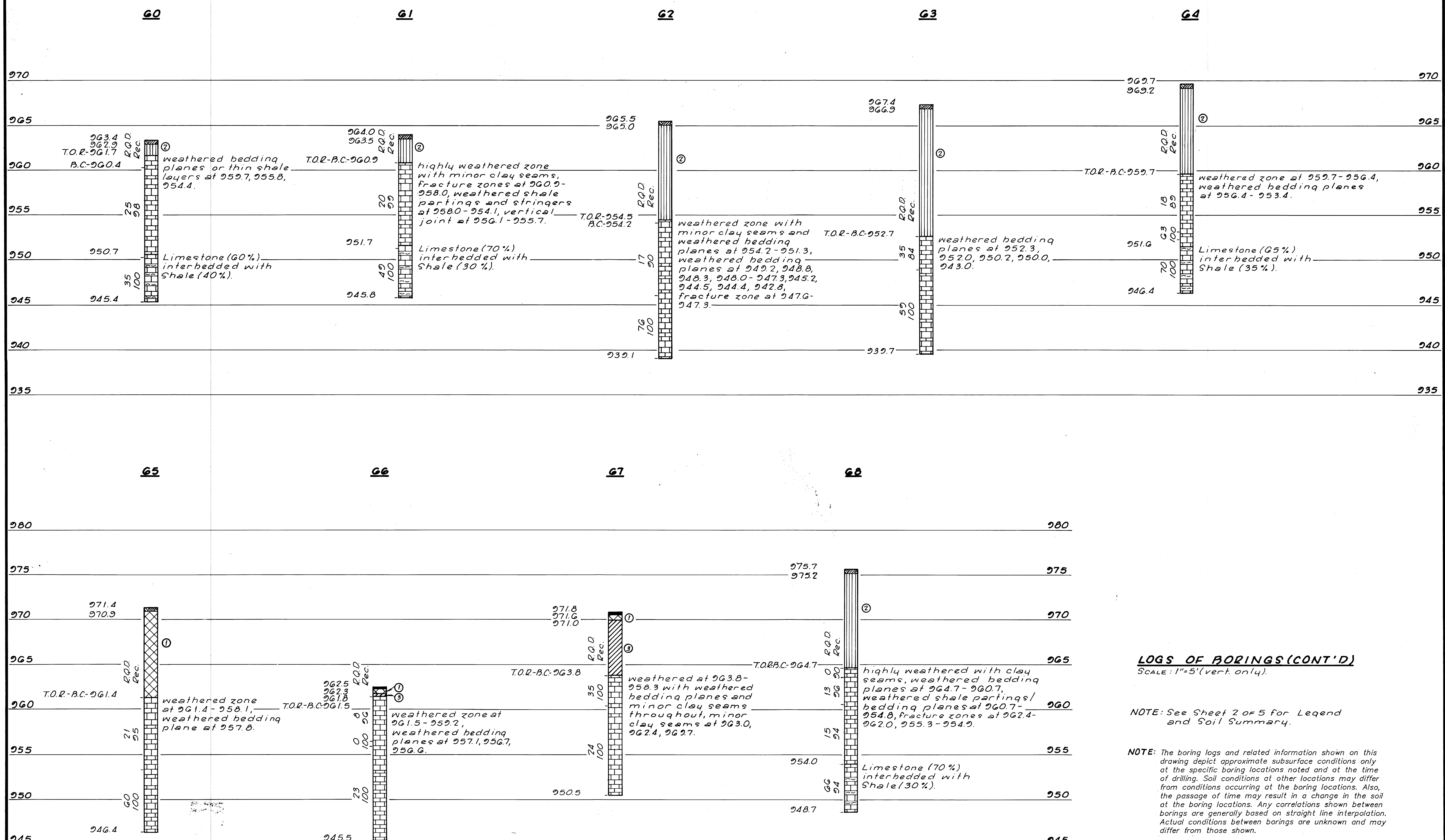
JOB NO.	8706
DATE	
DRAWN	
CHECKED	CEB
FILE NO.	431.0

REVISIONS

SHEET
C-19

Cab # 82 | Slot A-1 | Document # 004853


37
38
39
40
41
42
43
44
45
46
47
48
980
975
970
965
960
955
950
945
940
935
T.O.R-953.5
B.C-953.2
weathered bedding planes at 953.2-947.0, minor clay seams at 948.6, 948.5, 948.2, 948.0, 947.0.
T.O.R-962.3
B.C-961.5
weathered zone with clay seams along bedding planes at 961.5-957.7, weathered bedding plane at 955.3.
Limestone(70%) interbedded with Shale(30%).
highly weathered with clay seams at 961.7-957.8, soft shale layer at 952.2-952.1.
T.O.R-963.9
963.8
T.O.R-962.2
B.C-961.7
T.O.R-968.8
Highly weathered zone of interbedded clay seams and limestone.
weathered bedding planes at 964.1, 961.6, 961.1, 960.8, 960.6, 960.3, weathered zones at 963.1-962.9, 962.3-962.0.
T.O.R-960.2
T.O.R-966.0
B.C-963.7
weathered bedding planes with minor clay seams at 963.7-959.6, weathered bedding planes at 962.7, 956.4, 955.6-955.0, minor clay seams at 956.6, 954.5, 954.1, soft shale layer at 951.5-951.4, fracture, calcite filled, at 961.1-961.0, fracture zone at 960.6-960.3.
T.O.R-965.2
964.4
T.O.R-965.4
B.C-963.7
T.O.R-965.9
B.C-964.0
weathered zone with minor clay seams at 962.3-961.4, weathered bedding planes at 961.2, 955.0, 954.9, 954.0, 953.5.
Limestone(65%) interbedded with Shale(35%), soft shale layers at 951.8-951.7, 951.4-951.3, 950.1-950.1.
highly weather-er zone with clay seams at 964.0-963.0 (with solution fractures), weathered bedding planes at 962.6, 962.2, 962.0, 956.1, 955.6, 955.3.
Limestone(75%) interbedded with Shale(25%).
RQD Rec.
RECORD PRINTS
THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND WHICH THE ENGINEER CONSIDERS SIGNIFICANT.
49
50
51
52
53
54
55
56
57
58
59
T.O.R-969.1
B.C-968.6
T.O.R-955.0
B.C-954.4
void/weathered zone at 952.7-952.3.
T.O.R-966.0
T.O.R-961.8
961.5
T.O.R-963.1
960.4
T.O.R-963.6
B.C-963.5
weathered zone with clay seams along bedding planes at 963.5-959.2, weathered Shale, bedding planes at 959.2-954.5, soft Shale layer at 952.6-952.5 and 949.7-949.6.
T.O.R-970.8
970.6
T.O.R-969.9
969.6
T.O.R-968.1
968.0
T.O.R-962.9
B.C-962.2
weathered zones at 962.2-960.0, 953.2-952.9, weathered bedding planes at 957.1, 956.9, 956.2, 955.6, 955.1, 954.8, 954.5, 954.4, 953.2, 952.9, 951.3, 950.3, 949.8, 949.1, vertical joint at 949.3-948.9.
T.O.R-966.6
B.C. 964.8
Limestone Floater
weathered zone with clay seams along bedding planes at 964.8-960.6.
Limestone(70%) interbedded with Shale(30%).
NMC
UWW
UWD
UC
LOGS OF BORINGS(CONT'D)
SCALE: 1"=5' (vert. only).
NOTE: See Sheet 2 of 5 for Legend and Soil Summary.
NOTE: The boring logs and related information shown on this drawing depict approximate subsurface conditions only at the specific boring locations noted and at the time of drilling. Soil conditions at other locations may differ from conditions occurring at the boring locations. Also, the passage of time may result in a change in the soil at the boring locations. Any correlations shown between borings are generally based on straight line interpolation. Actual conditions between borings are unknown and may differ from those shown.
LOGS OF BORINGS
ROBOTICS FACILITY - UNIVERSITY OF KENTUCKY
STATE OF KENTUCKY
JEFFREY A. HAY
13486
REGISTERED PROFESSIONAL ENGINEER
FULLER, MOSSBARGER, SCOTT AND MAY
CIVIL ENGINEERS, INC.
1409 FORBES ROAD
LEXINGTON, KENTUCKY 40505
DRAWN BY S.F.S.
DATE Aug., 1987
CHECKED BY J.A.H.
PROJECT NO. 87178
CHECKED BY W.A.M.
SCALE As Noted
REVISED
SHEET
4 of 5
ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY
University of Kentucky
Lexington, Kentucky
approved by
director - design and construction division
date
Sherman-Carter-Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-1351
JOB NO. 8706
DATE
DRAWN
CHECKED CEB
FILE NO. 431.0
REVISIONS
Cab # 82
Slot A-1
Document # 004854
SHEET
C-20



LOGS OF BORINGS (CONT'D)
SCALE: 1"=5' (vert. only).

NOTE: See Sheet 2 of 5 for Legend and Soil Summary.

NOTE: The boring logs and related information shown on this drawing depict approximate subsurface conditions only at the specific boring locations noted and at the time of drilling. Soil conditions at other locations may differ from conditions occurring at the boring locations. Also, the passage of time may result in a change in the soil at the boring locations. Any correlations shown between borings are generally based on straight line interpolation. Actual conditions between borings are unknown and may differ from those shown.

RECORD PRINTS
THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND WHICH THE ENGINEER CONSIDERS SIGNIFICANT

LOGS OF BORINGS
ROBOTICS FACILITY - UNIVERSITY OF KENTUCKY

STATE OF KENTUCKY JEFFREY A. HAY 13486 REGISTERED PROFESSIONAL ENGINEER

FULLER, MOSSBARGER, SCOTT AND MAY CIVIL ENGINEERS, INC.
1409 FORBES ROAD
LEXINGTON, KENTUCKY 40505

DRAWN BY S.F.S.	DATE Aug., 1987	REVISED	SHEET
CHECKED BY J.A.H.	PROJECT NO. 87178		5 OF 5
CHECKED BY W.A.M.	SCALE As Noted		

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
10.19.87

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-1351

JOB NO.	8706
DATE	
DRAWN	
CHECKED	CEB
FILE NO.	431.0

REVISIONS

SHEET
C-21

Cab # 82 Slot A-1 Document # 004855


EXISTING PLANTS THAT WERE LEFT IN PLACE
ILEO
(600) EUOC
(4) PYRA
(3) AHEL - THE CONTRACTOR (1) TO THE U.K. MAINTENANCE DEPT. TO USE AT ANOTHER SITE, SINCE IT COULD NOT BE INSTALLED DUE TO METER.
(15) EUOG
(3) PYRA
(100) EUOC
(4) VIBM
(1) GLEM
(220) EUOC
(2) CRAT
(150) EUOC
MULCH
(3) TAXN
(8) VIBM
(3) TSUGA
(1) GLEM
(5) PYRA
(2) CRAT
(280) EUOC
(120) EUOC
ROBOTICS FACILITY
MAGV - ADDED FROM NORTH COURTYARD
(2) PICEAL
(2) PICEA
(1) PICEA L
METER PLUG
(2) PICEA
4 PYRA - ADDED FROM NORTH COURTYARD
(3) HALS
MULCH
BED EDGE
(2) HALZ
(1) PICEA
(18) VIBA
(35) JUHP
(3) GLED
(58) TAXN - 5 UNITS ADDED FROM NORTH COURTYARD
(2) QUES
(13) VIBM
(1) ACES
(4) MALZ
(21) PYRA
(1) QUES
NORTH
SCALE: 1" - 10'
RECORD DRAWINGS
JAMES B. EVANS & ASSOCIATES
landscape architects - site planners

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved by
director - design and construction division
10-19-87
date

LANDSCAPE PLANTING PLAN

Sherman · Carter · Barnhart
PARTNERS IN ARCHITECTURE
LEXINGTON FINANCIAL CENTER · SUITE 1900 · 250 W. MAIN · LEXINGTON, KY 40507 · 606-254-1351

JOB NO.
DATE OCT. 1, 1987
DRAWN RER
CHECKED JDE
FILE NO. 481.0

REVISIONS
AS BUILT REVISIONS
18 MARCH 1991 ELM

SHEET
L-1

PLANTING NOTES

1. PLANTS LABELED NIC ARE NOT IN CONTRACT AND NOT A PART OF THIS PHASE OF WORK.

2. THE CONTRACTOR SHALL SOD ANY AREAS DISTURBED BY CONSTRUCTION OPERATIONS. NO SEEDING SHALL BE PERFORMED ON THIS PROJECT. EXISTING SOD SHALL BE REMOVED FROM BENEATH ALL NEW SOD. NEW SOD SHALL BE "CUT-IN" TO THE EDGE OF EXISTING SOD SO BOTH SURFACES ARE AT THE SAME ELEVATION AND PRESENT A SMOOTH UNIFORM SURFACE.

3. REQUIREMENTS FOR THE MEASUREMENT, BRANCHING, GRADING, QUALITY, BALLING AND BURLAPPING OF PLANTS IN THE PLANT LIST GENERALLY FOLLOWS OR EXCEEDS A CODE OF STANDARDS CURRENTLY RECOMMENDED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN THE AMERICAN STANDARD FOR NURSERY STOCKS. SEE THE PLANT LIST FOR MORE RESTRICTIVE REQUIREMENTS.

4. ALL PLANTS SHALL HAVE A WELL FORMED HEAD WITH MINIMUM CALIPER, HEIGHT AND SPREAD OF THE SIDE BRANCHES AS SHOWN ON THE PLANT LIST. TRUNKS SHALL BE UNDAMAGED AND SHAPE SHALL BE TYPICAL OF THE SPECIES.

5. MEASUREMENT OF CONIFER HEIGHT SHALL INCLUDE NOT MORE THAN FIFTY (50) PER CENT OF THIS YEARS VERTICAL GROWTH (TOP CANDLE).

6. THE LANDSCAPE CONTRACTOR IS HEREBY NOTIFIED OF THE EXISTENCE OF UNDERGROUND UTILITIES WITHIN LIMITS OF THE PROJECT AREA. THE CONTRACTOR SHOULD VERIFY THE EXACT LOCATION OF ALL UTILITY LINES PRIOR TO COMMENCEMENT OF DIGGING OPERATIONS.

7. THE LANDSCAPE CONTRACTOR WILL BE RESPONSIBLE FOR STAKING AND LAYOUT OF PLANTINGS ON THIS PROJECT. THE ARCHITECT OR OWNER SHALL BE ADVISED WHEN STAKES ARE READY FOR INSPECTION ON VARIOUS PLANTING AREAS. ALL LAYOUT WORK SHALL BE INSPECTED AND APPROVED BY THE ARCHITECT OR OWNER PRIOR TO OPENING ANY PLANTING PITS.

8. IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO VERIFY THAT EACH EXCAVATED TREE OR SHRUB PIT WILL PERCOLATE (DRAIN) PRIOR TO ADDING TOPSOIL AND INSTALLING TREES OR SHRUBS. THE CONTRACTOR SHALL FILL THE BOTTOM OF SELECTED HOLES WITH SIX (6) INCHES OF WATER. THIS WATER SHOULD PERCOLATE OUT WITHIN A TWENTY-FOUR (24) HOUR PERIOD. THE OWNER OR ARCHITECT SHALL VERIFY ACCURACY AND EFFECT OF PERCOLATION TESTING. IF THE SOIL AT A GIVEN AREA DOES NOT DRAIN PROPERLY, A P.V.C. DRAIN OR GRAVEL SUMP SHALL BE INSTALLED OR THE PLANTINGS RELOCATED.

9. SHOULD THE LANDSCAPE CONTRACTOR ENCOUNTER UNSATISFACTORY SURFACE OR SUBSURFACE DRAINAGE CONDITIONS, SOIL DEPTH, LATENT SOILS, HARD PAN, STEAM OR OTHER UTILITY LINES OR OTHER CONDITIONS THAT WILL JEOPARDIZE THE HEALTH AND VIGOR OF THE PLANTS, HE MUST ADVISE THE ARCHITECT IN WRITING OF THE CONDITIONS PRIOR TO INSTALLING THE PLANTS. OTHERWISE THE LANDSCAPE CONTRACTOR WARRANTS THAT THE PLANTING AREAS ARE SUITABLE FOR PROPER GROWTH AND DEVELOPMENT OF THE PLANTS TO BE INSTALLED.

10. PLANTING PITS FOR TREES AND SHRUBS SHALL BE DUG A FULL TWELVE (12) INCHES WIDER THAN THE BALL AROUND THE ENTIRE PLANT AND SIX (6) INCHES DEEPER THAN THE BALL. NEW TOPSOIL AS SHALL BE FURNISHED BY THE CONTRACTOR SHALL BE MIXED WITH PEAT MOSS AT A RATE OF 5:1 VOLUME FOR BACKFILL. ANY HEAVY CLAY OR OTHER SOIL UNSUITABLE FOR PLANTING ENCOUNTERED IN THE BOTTOM OF THE HOLES SHALL BE REMOVED FROM THE SITE. IF THE CONTRACTOR ENCOUNTERS SOILS THAT ARE SUITABLE FOR BACKFILL, HE SHALL ADVISE THE ARCHITECT PRIOR TO BACKFILLING. A WRITTEN CHANGE ORDER WITH A CREDIT TO THE OWNER MAY BE PREPARED TO ALLOW THE CONTRACTOR TO USE EXISTING SOILS AS BACKFILL.

11. BARK MULCH SHALL BE APPLIED TO ALL SHRUB BEDS BY THE CONTRACTOR. BEDS SHALL BE TREATED WITH PREEMERGENT HERBICIDE BY THE CONTRACTOR BEFORE MULCH IS APPLIED. BARK MULCH SHALL BE ONE AND ONE-HALF INCHES DEEP. A SAMPLE OF MULCH SHALL BE PRESENTED TO THE LANDSCAPE ARCHITECT FOR APPROVAL.

12. ALL TREES ARE TO BE STAKED AND WRAPPED IMMEDIATELY AFTER PLANTING AS DETAILED.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED MAINTENANCE UNTIL ALL PLANTINGS ARE FORMALLY ACCEPTED. ALL PLANTS SHALL BE WATERED AT TIME OF INSTALLATION AND AS OFTEN THEREAFTER AS NECESSARY TO MAINTAIN THEM IN A HEALTHY VIGOROUS CONDITION.

14. THE OWNER SHALL BE RESPONSIBLE FOR LANDSCAPE MAINTENANCE AFTER THE PLANTINGS ARE FORMALLY ACCEPTED DURING THE ONE (1) YEAR GUARANTEE PERIOD.

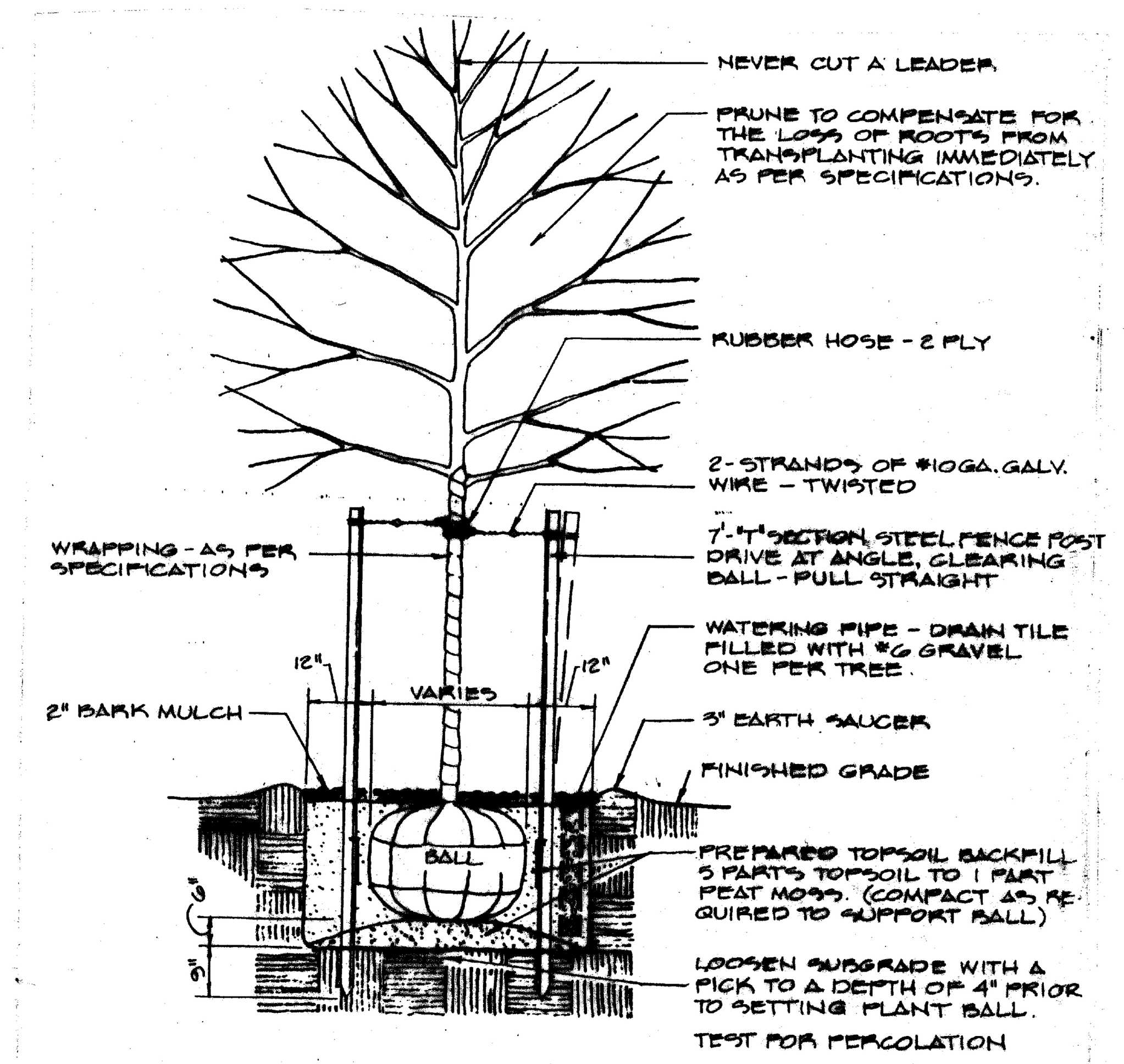
15. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING UP THE SITE AT THE COMPLETION OF THE PROJECT AND SHALL MAINTAIN THE SITE IN A REASONABLY NEAT AND CLEAN STATE THROUGHOUT THE INSTALLATION PROCESS. STREETS AND PAVED AREAS SHALL BE CLEANED REGULARLY TO REMOVE CONSTRUCTION MATERIALS AND OTHER DEBRIS RESULTING FROM WORK OF THIS PROJECT.

16. PLANTS SHALL BE GUARANTEED FOR THE DURATION OF ONE (1) FULL YEAR AFTER THE FORMAL ACCEPTANCE OF THE PLANTING BY THE OWNER AND SHALL BE ALIVE AND IN SATISFACTORY GROWTH AT THE END OF THE GUARANTEE PERIOD. ANY PLANT NOT IN A HEALTHY AND VIGOROUS STATE AT THE END OF THE GUARANTEE PERIOD SHALL BE REPLACED AT NO COST TO THE OWNER. PLANTS SEVERELY DAMAGED BY VANDALS ARE NOT SUBJECT TO REPLACEMENT BY THIS CONTRACTOR.

17. REPLACEMENTS OF DEAD OR UNSATISFACTORY MATERIAL SHALL BE MADE AS SPECIFIED IN THE PLANT LIST. THE OWNER OR LANDSCAPE ARCHITECT SHALL INSPECT REPLACED PLANTS WHEN ALL REPLACEMENTS HAVE BEEN MADE. REPLACEMENTS ARE TO BE ALIVE AND IN A HEALTHY CONDITION WHEN THE REPLACEMENTS ARE COMPLETE BUT THEY SHALL NOT BE SUBJECT TO A ONE (1) YEAR GUARANTEE.

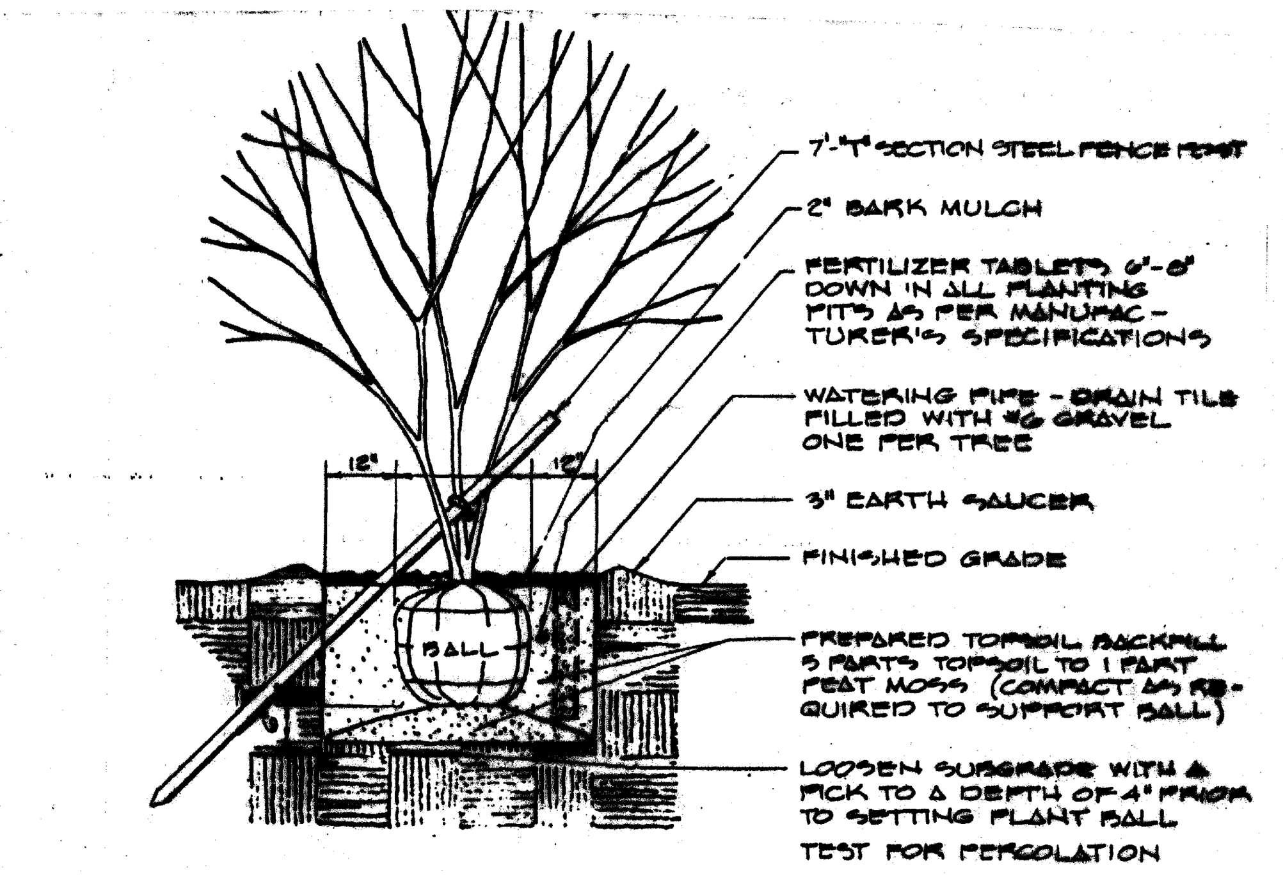
18. SHOULD THE CONTRACTOR NOT MAKE REPLACEMENTS IN A SATISFACTORY AND TIMELY FASHION IN ACCORD WITH THE PLANTING NOTES, THE OWNER, AFTER PROPER NOTIFICATION TO THE CONTRACTOR, MAY UTILIZE THE FUNDS OF THE RETAINAGE TO HAVE THE REPLACEMENTS MADE IN ACCORD WITH THE SPECIFICATIONS BY ANOTHER CONTRACTOR.

19. NO EXCAVATION OR PLANTING PIT SHALL BE LEFT UNATTENDED OR OPEN OVERNIGHT.



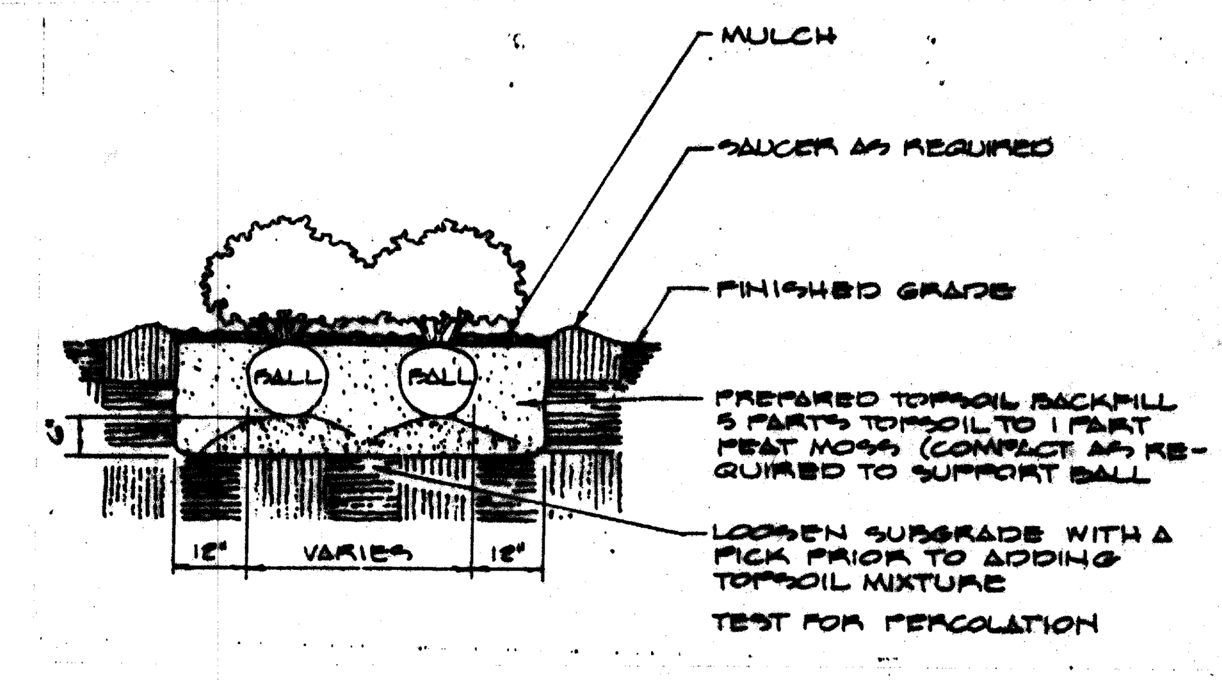
A / L-2 PLANTING & DOUBLE STAKING DETAIL

SCALE : 3/8" = 1'-0"



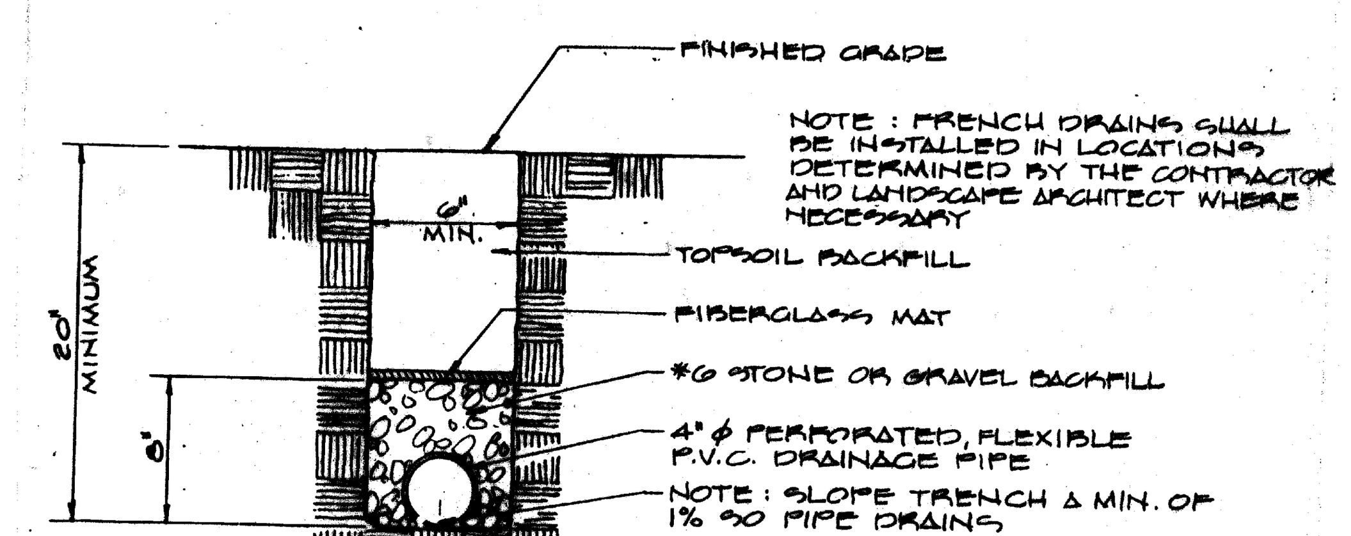
B / L-2 PLANTING AND SINGLE STAKING

SECTION — SCALE : 3/8" = 1'-0"



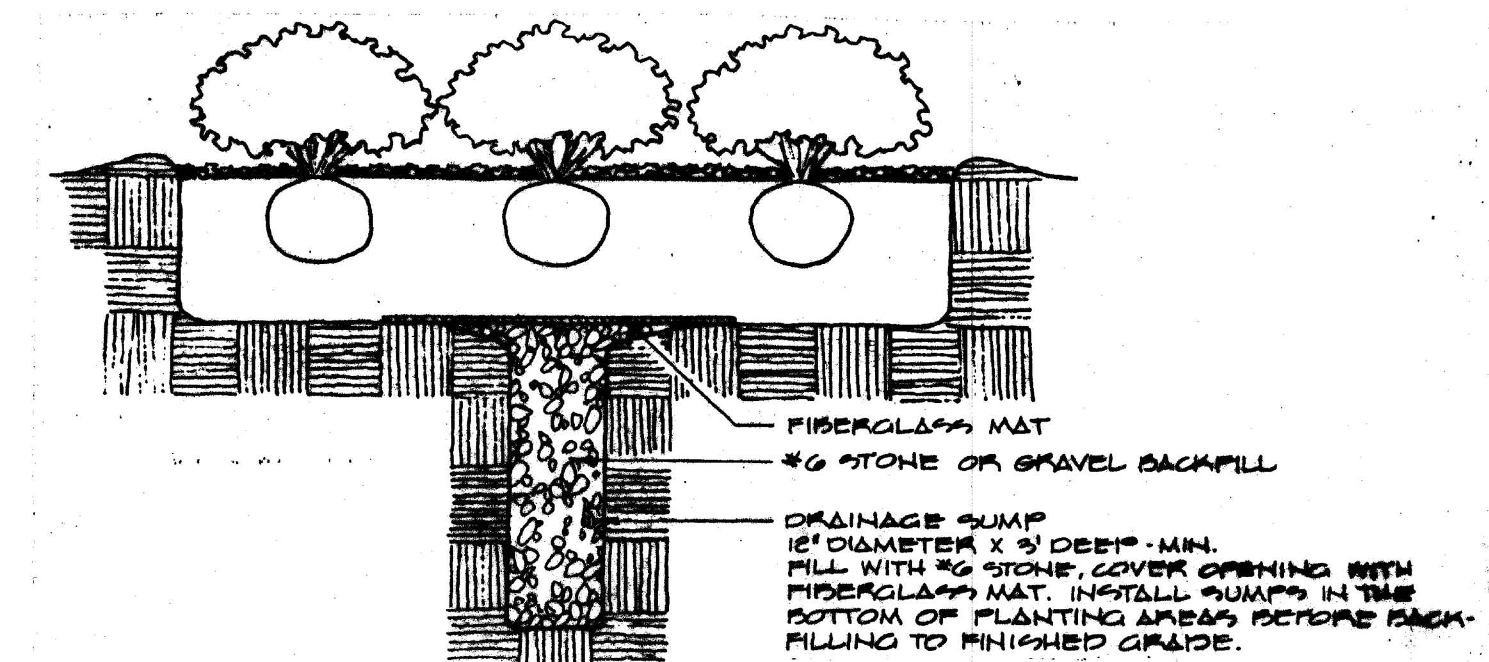
C / L-2 SHRUB PLANTING

SECTION — SCALE : 3/8" = 1'-0"



D / L-2 FRENCH DRAIN DETAIL (80 L.F. REQ'D. BASE BID)

SCALE : 1" = 1'-0"



E / L-2 DRAINAGE SUMP DETAIL (20 REQ'D. BASE [illegible])

SCALE : 1/2" = 1'-0"

PLANT LIST

ABBREV.	BOTANICAL NAME	COMMON NAME	MINIMUM CALIPER	SPREAD	HEIGHT	BALL DIA.	NO. CANE	COMMENTS
Aces	Acer saccharum 'Green Mountain'	Green Mountain Sugar Maple	3"	5'	14-16'	32"	1	
Gled	Gleditsia tri. in. 'Moraine'	Moraine Honeylocust	2"	4'	12-14'	24"	1	
Glem	Gleditsia tri. in. 'Moraine'	Morain Honeylocust	3½"	6'	14-16'	34"	1	
Ques	Quercus shumardii	Shumard Oak	3"	5'	12-14'	32"	1	
Crat	Crataegus phaenopyrum	Washington Hawthorn	1½"/cane		7-8'	28"	3-4	
⚠ ILEO	ILEX OPACA	AMERICAN HOLLY		4'	7-8'	28"		Branched to Ground
Magv	Magnolia virginiana	Sweetbay Magnolia	1½"/cane		7-8'	28"	3-5	
Mals	Malus sargentii	Sargents Crabapple	2½"	4'	5'	28"	1	
Malz	Malus zumi 'Calocarpa'	Zumi Crabapple	2½"	4'	6'	28"	1	
AMEL	Amelanchier laevis	Allegheny Serviceberry	1½"/cane		8-9'	28"	3-5	
Picea	Picea abies	Norway Spruce		4'	7-8'	24"	1	Medium Shear
Picea L	Picea abies	Norway Spruce		5'	8-10'	27"	1	Medium Shear
Tsuga	Tsuga canadensis	Canadian Hemlock		4'	7-8'	24"	1	Medium Shear
Euog	Euonymus fortunei 'Green Lane'	Green Lane Euonymus		15-18"	18"	9"	7-10	
Junp	Juniperus chinensis var. sargentii	Sargents Juniper (Green)		18"		3 gal.		
Pyra	Pyracantha coccinea 'Kasan'	Kasan Firethorn			24-30"	7 gal.	7-10	
Taxw	Taxus x media 'wardii'	Wards Yew		21"	15"	10"	5-7	Medium Shear
Viba	Viburnum x rhytidophylloides 'Allegheny'	Allegheny Viburnum		24"	36"	12"	7-10	
Vibm	Viburnum plicatum tomentosum 'Mariesii'	Marie's Viburnum		24"	36"	12"	7-10	
Euoc	Euonymus fortunei var 'Coloratus'	Coloratus Wintercreeper				2" pots	3-4 runners	4-6" long

RECORD DRAWINGS

[illegible]

DATE 3-19-91

[illegible]

JAMES B. EVANS & ASSOCIATES
landscape architects - site planners

STATE OF KENTUCKY — JAMES B. EVANS — REGISTERED LANDSCAPE ARCHITECT

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved by — director design and construction division — 10-19-87 date

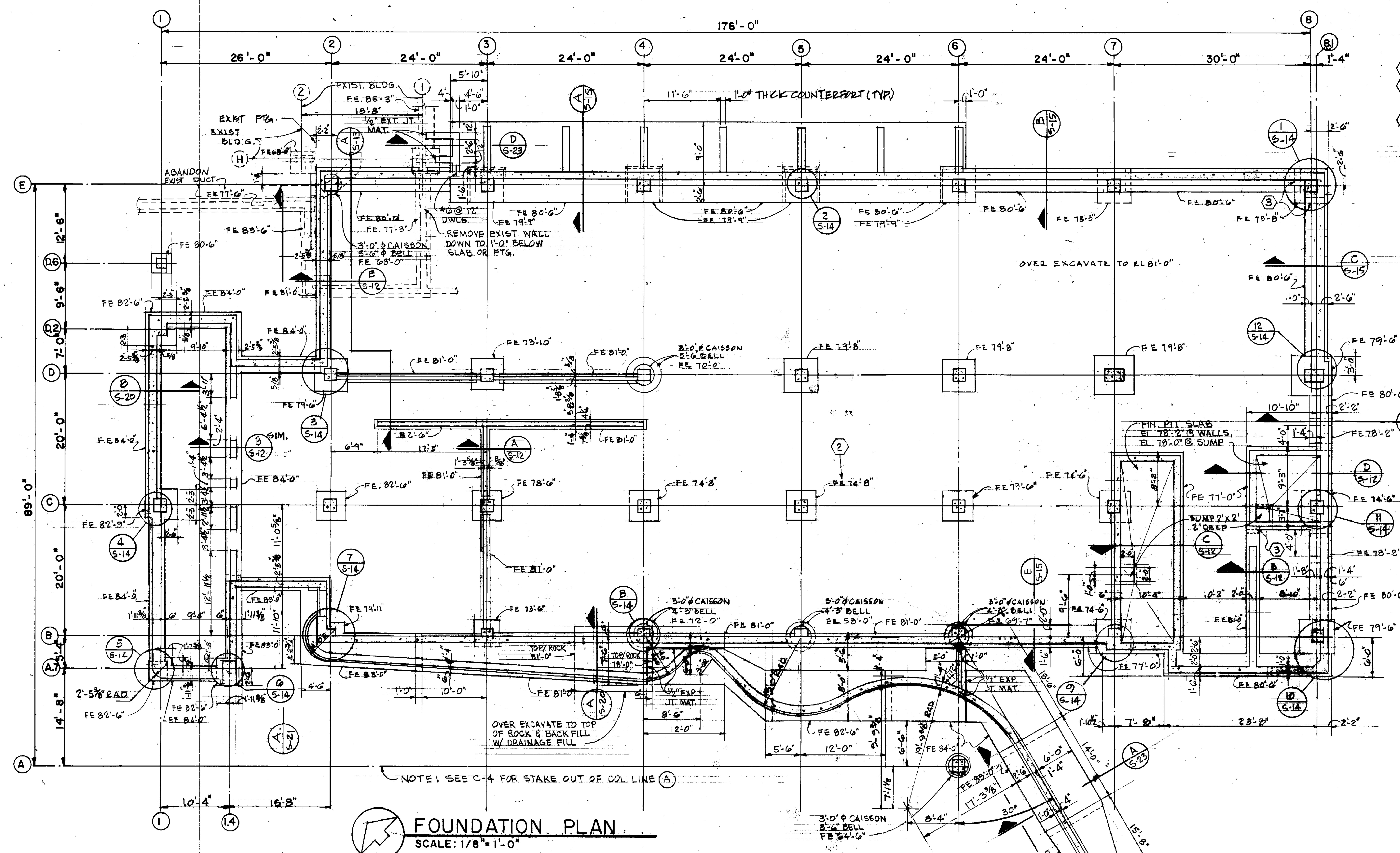
PLANTING DETAILS

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
LEXINGTON FINANCIAL CENTER · SUITE 1900 · 250 W. MAIN · LEXINGTON, KY 40507 · 606-254-1351

JOB NO.	
DATE	OCT.1,1987
DRAWN	EKS
CHECKED	JBE
FILE NO.	481.0

REVISIONS
AS BUILT REVISIONS △
18 MARCH 1991 ELM

SHEET
L-2



FOUNDATION PLAN

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

NOTES

1. SEE SHEET S-1 FOR GENERAL NOTES
2. F.E. DENOTES THE BOTTOM OF FOOTING OR BOTTOM OF CAISSON ELEVATION.
3. TURN WALL FOOTING DOWN TO THE TOP OF COLUMN FOOTING.

NOTE:
SEE DCR #2, 1/11/88

GENERAL NOTES:

CODES USED IN DESIGN:
KENTUCKY BUILDING CODE (KBC) (1985 EDITION)
A.C.I. BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-83 WITH 1986 SUPPLEMENT)
AISC MANUAL OF STEEL CONSTRUCTION (1980 - 8TH EDITION)

DESIGN STRESSES

CONCRETE: ULTIMATE COMPRESSIVE STRENGTH (MINIMUM) AT 28 DAYS AS FOLLOWS:

BUILDING CONCRETE	4000 PSI
EXTERIOR WALKS DRIVE CURBS, VAULTS, PITS, UNDERGROUND CONDUITS, ETC.	3000 PSI

REINFORCING STEEL: GRADE 60 DEFORMED BARS WITH STRESSES GOVERNED BY ACI

STRUCTURAL STEEL:
STRUCTURAL STEEL SHALL BE ASTM A-36 WITH DESIGN STRESSES GOVERNED BY AISC UNLESS OTHERWISE NOTED.

CONNECTIONS FOR STEEL MEMBERS:
CONNECTIONS SHALL BE WITH ASTM A-307 BOLTS FOR BOLTED CONNECTIONS UNLESS OTHERWISE NOTED, AND E-70XX ELECTRODES FOR WELDED CONNECTIONS. CONNECTION DETAILS NOT SHOWN SHALL BE SELECTED TO SUPPORT ONE-HALF THE TOTAL UNIFORM LOAD CAPACITY OF THE BEAM. HOLES ARE NOT PERMITTED IN TENSION FLANGE UNLESS SPECIFICALLY NOTED.

FORM DECKING:
2 INCH x 20 GAUGE GALVANIZED STEEL DECK SHALL HAVE A MINIMUM YIELD STRENGTH OF 33,000 PSI. FORMS ARE TO HAVE THE MINIMUM SECTION PROPERTIES: $t = 0.0358$ INCHES; $I = 0.43\ IN^4/FT.$; $S = 0.369\ IN^3/FT.$

MISCELLANEOUS FASTENERS:
HEADED STUD-TYPE SHEAR CONNECTORS SHALL BE ASTM A 108 GRADE 1015 OR 1020.
ANCHOR BOLTS SHALL BE ASTM A 307.

FOUNDATIONS

FOOTINGS OR CAISSONS FOR BUILDING COLUMN LOADS WERE DESIGNED TO BEAR ON SOLID ROCK WITH A MINIMUM BEARING VALUE OF 60,000 PSF.

WALL FOOTINGS ON ROCK WERE DESIGNED FOR AN ALLOWABLE BEARING VALUE OF 60,000 PSF MINIMUM.

WALL FOOTINGS BEARING ON SOIL WERE DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 3,000 PSI MINIMUM.

DESIGN FROST DEPTH = 24 INCHES.

DESIGN LOADS

DEAD LOADS:

WEIGHTS OF MATERIALS AND CONSTRUCTION: PER KBC APPENDIX B.

LIVE LOADS:

ROOF LIVE LOADS: 20 PSF FOR SNOW.
PONDING WATER: DESIGNED FOR THE MAXIMUM POSSIBLE WATER DEPTHS.

FLOOR LIVE LOADS:

STAIRS AND EXITS:	100 PSF OR 300 LBS. @ TREAD
SCHOOL CORRIDORS:	80 PSF PLUS 20 PSF FOR FUTURE PARTITIONS = 100 PSF OR 1000 LB ON A 2.5 FT. SQUARE AREA
COMPUTER ROOMS:	80 PSF PLUS 20 PSF FOR FUTURE PARTITIONS = 100 PSF OR 1000 LB ON A 2.5 FT. SQUARE AREA
ELEVATOR MACHINE ROOM:	125 PSF
MACHINE BAY, LOADING DOCK, MECHANICAL ROOM:	USE 125 PSF OR 5 TON FORK TRUCK
YARDS AND TERRACES	100 PSF OR 800 LBS ON A 2.5 FT. SQUARE AREA.

EQUIPMENT:

ELEVATORS: USE MANUFACTURER'S CATALOG DATA.
ELVATOR SHAFT HOISTWAY BEAM = 6000 LBS.
MONORAIL: USE MANUFACTURER'S DATA (TWO-5 TON CAPACITY HOISTS).
ROBOTICS EQUIPMENT, ROBOTS, ETC: FROM MANUFACTURER'S CATALOG DATA
. USE THE FOLLOWING: HIGH BAY = 7000 LBS.
MED LABS = 1000 LBS.
SMALL LABS = 500 LBS.

WALKS AND DRIVES FOR TRUCKS:

USE 250 PSF OR:
P = 8000 LBS ON A 2.5 FT. SQUARE AREA
HS 20 TRUCK OR 5 TON FORK TRUCK AS APPLICABLE

WIND: PER KENTUCKY BUILDING CODE FOR 75 MPH
EARTHQUAKE: PER KENTUCKY BUILDING CODE FOR ZONE 1

FUTURE FLOORS: THE PRIMARY STRUCTURAL FRAME, COLUMNS AND FOUNDATIONS WERE DESIGNED TO ALLOW THE ADDITION OF TWO FLOORS IN THE FUTURE SIMILAR TO THE FIFTH FLOOR.

ADMINISTRATIVE CONTROLS WILL BE REQUIRED TO INSURE THAT FLOOR DESIGN LIVE LOADS ARE NOT EXCEEDED IN PRACTICE. AN IMPORTANT EXAMPLE IS THAT THE UNIVERSITY MUST INSTALL ADEQUATE SIGNS OR WARNINGS TO PREVENT A LOADED FORK TRUCK FROM EXITING THE FREIGHT ELEVATOR ON FLOORS 2, 3 4 AND 5.

CONTINUED ON SHEET S-1A

RECORD PRINTS

THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND WHICH THE ENGINEER CONSIDERS SIGNIFICANT

MASON & HANGER ENGINEERING INC.
ARCHITECT • ENGINEERS
LEXINGTON, KENTUCKY

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

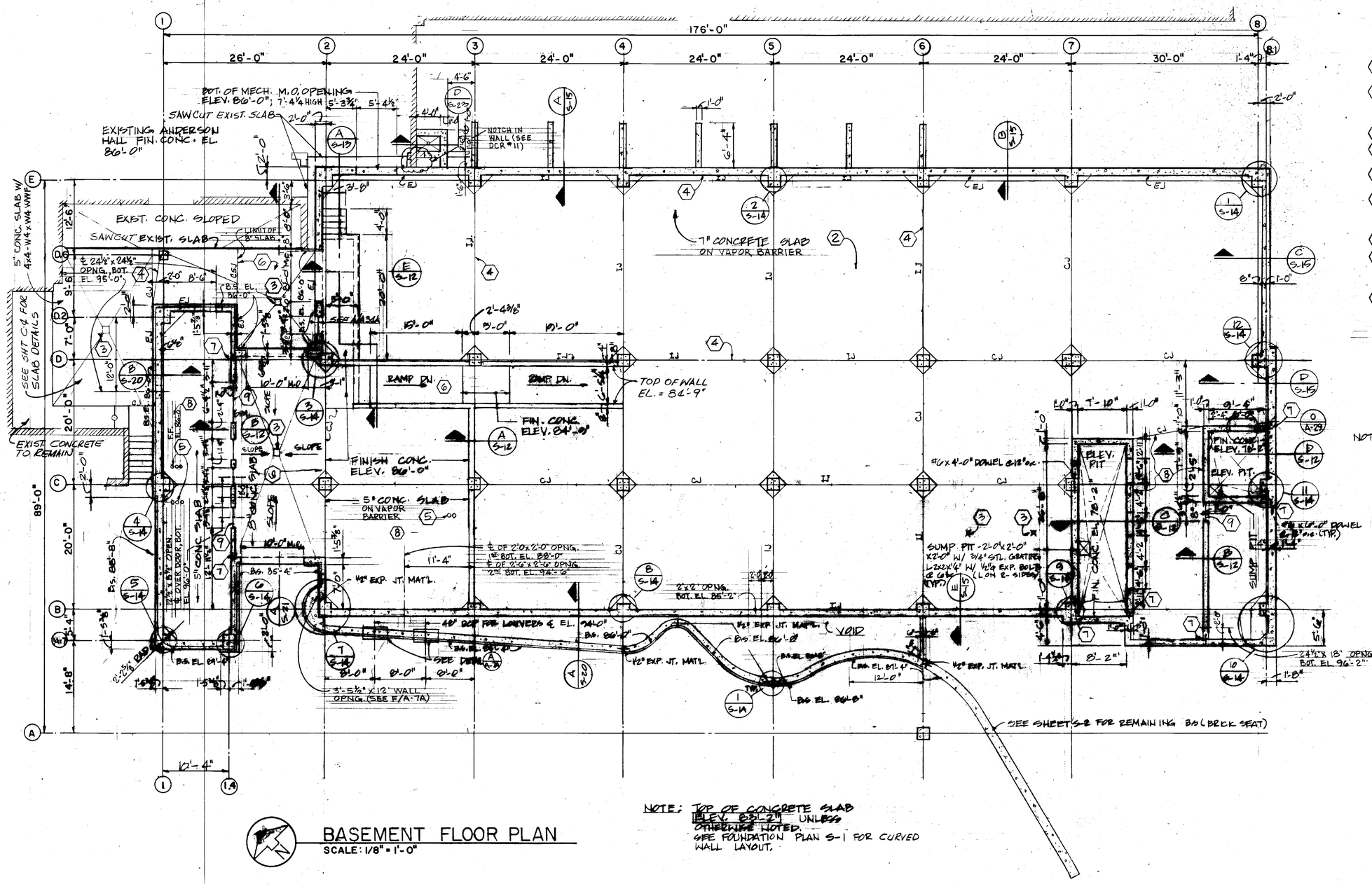
FOUNDATION PLAN

Sherman-Carter-Barnhart
PARTNERS IN ARCHITECTURE

JOB NO	2046
DATE	10-19-89
DRAWN	V.T.J
CHECKED	PFH.
FILE NO.	431.0

REVISIONS

SHEET
S-1



NOTE: TOP OF CONCRETE SLAB ELEV. 83'-2" UNLESS OTHERWISE NOTED.
SEE FOUNDATION PLAN S-1 FOR CURVED WALL LAYOUT.

BASEMENT FLOOR PLAN

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

S-1A **NOTES**

① SEE SHEET S-1 FOR GENERAL NOTES.

② 7 INCH SLAB ON GRADE. REINFORCE WITH ONE LAYER OF 4 X 4 - W2.9 X W2.9, WWF 2" FROM TOP OF SLAB.

③ AREA DRAINS. SEE MECHANICAL.

④ SEE SHEET S-12 FOR SLAB JOINT DETAILS.

⑤ ELECTRIC CONDUIT. SEE SHEET C-14.

⑥ 8 INCH SLAB ON GRADE. REINFORCE WITH ONE LAYER 4 X 4 - W4.0 X W4.0 WWF 2 INCHES FROM TOP OF SLAB.

⑦ #6 X 2'-0" DOWELS @ 12" O.C.

⑧ 5 INCH SLAB ON GRADE. REINFORCE WITH ONE LAYER 6 X 6 - W2.9 X W2.9 WWF 2 INCHES FROM TOP OF SLAB.

⑨ UNLESS OTHERWISE INDICATED LOCATE JOINT IN FLOOR SLAB UNDER THE DOOR.

NOTE:
SEE DCR #6, 2/26/88

NOTE: BASEMENT - INTERIOR BASEMENT WALL & 1ST FLOOR SLAB TO BE IN PLACE PRIOR TO BACKFILL OF PERIMETER WALLS

CONCRETE WORK

BEAMS AND GIRDERS IN SCHEDULES ARE ORIENTED SUCH THAT THE MEMBER MARK ON THE FLOOR PLAN IS ON THE LEFT END OF THE MEMBER.

ANY CONCRETE WITH REINFORCEMENT NOT DETAILED SHALL BE PROVIDED WITH #4 @ 12" EACH WAY, EACH FACE.

PROVIDE 2 NO. 5 BARS E.F. DIAGONAL (45 DEGREES) EXTENDING 2'-6" EACH DIRECTION, AT EACH CORNER OF OPENINGS LARGER THAN 2'-0" IN ANY DIRECTION. (UNLESS NOTED OTHERWISE).

CHAMFER ALL EXPOSED EDGES 3/4" UNLESS NOTED OTHERWISE.

LAP SPLICES SHALL BE IN ACCORDANCE WITH ACI 318-83 UNLESS OTHERWISE NOTED. STAGGER SPLICES IN FLOOR SLABS SO THAT NOT MORE THAN HALF THE BARS ARE SPLICED ALONG ANY ONE PLANE.

CONSTRUCTION JOINT LOCATION OTHER THAN THOSE SHOWN SHALL BE APPROVED BY THE ARCHITECT/ENGINEER.

ALL MECHANICAL AND PLUMBING PENETRATIONS NOT INDICATED SHALL BE SLEEVED THROUGH CONCRETE.

DO NOT BACKFILL AGAINST BASEMENT WALLS UNTIL THE FIRST FLOOR SLAB IS IN PLACE.

COORDINATION WITH EQUIPMENT FURNISHED

WHERE THE CONTRACTORS PROPOSED EQUIPMENT REQUIRES MODIFICATION TO THE STRUCTURE THE ARCHITECT/ENGINEER SHALL BE SO ADVISED TO DETERMINE WHETHER THE MODIFICATIONS CAN REASONABLY BE MADE.

THE CONSTRUCTION OF THE MACHINE ROOM FLOOR OVER ELEVATOR HOISTWAYS SHALL BE COORDINATED WITH THE INSTALLATION OF ELEVATOR MACHINERY.

BUILDING ELEVATIONS

BUILDING ELEVATION 100'-0" EQUALS SITE ELEVATION 976.50. SEE SITE SURVEY FOR DATUM BENCHMARK.

CONCRETE WORK (CONT.)

ALL SLAB ON GRADE JOINTS SHALL BE 30# FELT JOINTS, UNLESS NOTED OTHERWISE.

ALL JOINTS AROUND COLUMNS (BETWEEN "AFTER POUR" AND SLAB) SHALL BE ½" EXPANSION JOINT MATERIAL WITH SEALER, EXCEPT WHERE CORK IS REQUIRED TO MAKE THE ISOLATION JOINT (IJ) CONTINUOUS.

① S-1A DETAIL
SCALE: 3/4" = 1'-0"

RECORD PRINTS

THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND WHICH THE ENGINEER CONSIDERS SIGNIFICANT

MASON & HANGER ENGINEERING INC.
ARCHITECT • ENGINEERS
LEXINGTON, KENTUCKY

ALVIN L. POPE
6180
REGISTERED PROFESSIONAL ENGINEER

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
10-19-87

BASEMENT FLOOR PLAN

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1000 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-1351

JOB NO.	2046
DATE	10-19-87
DRAWN	M.A.A.
CHECKED	ALP/RPW
FILE NO.	431.0

REVISIONS

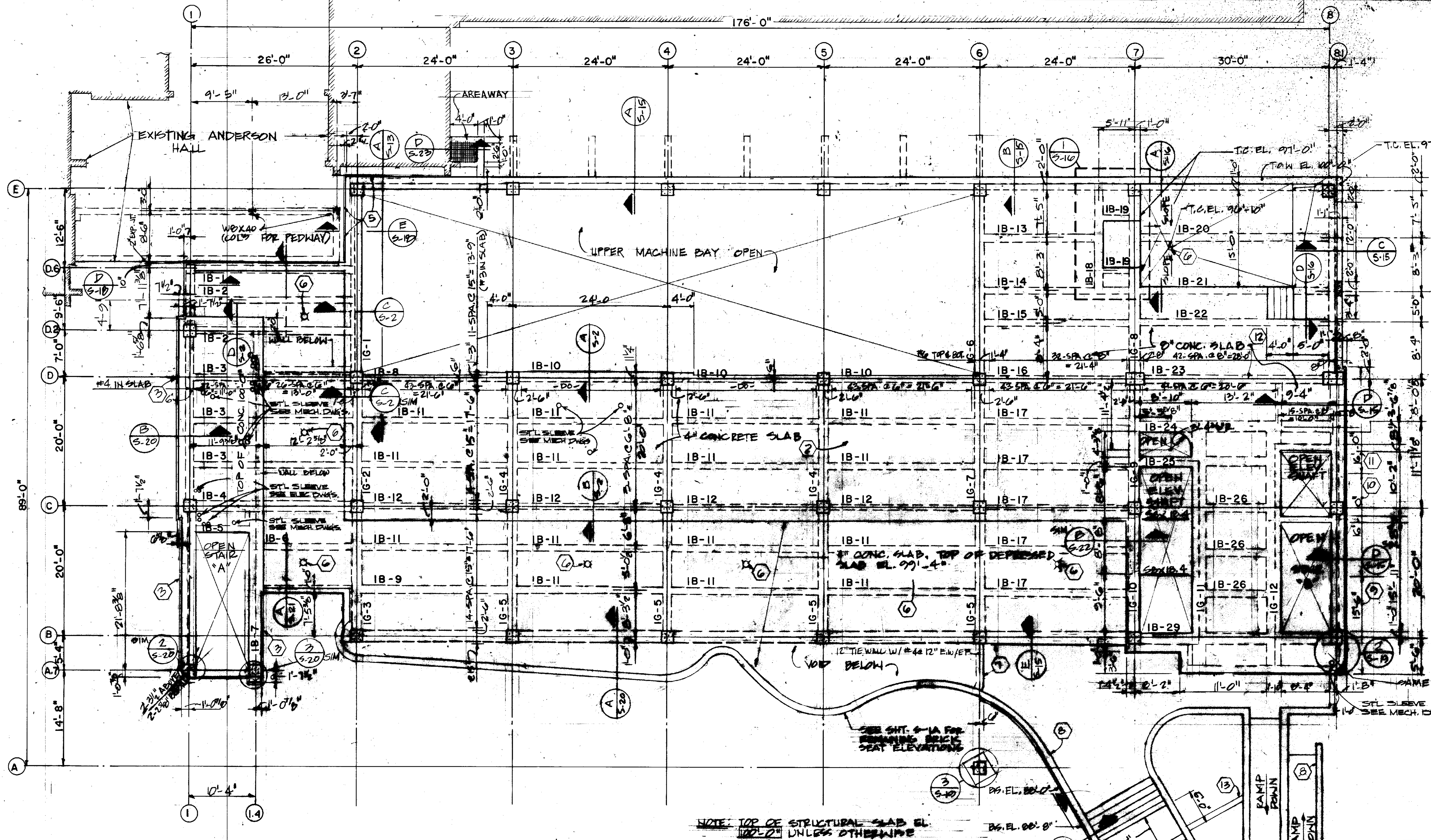
SHEET
S-1A

S-2

NOTES

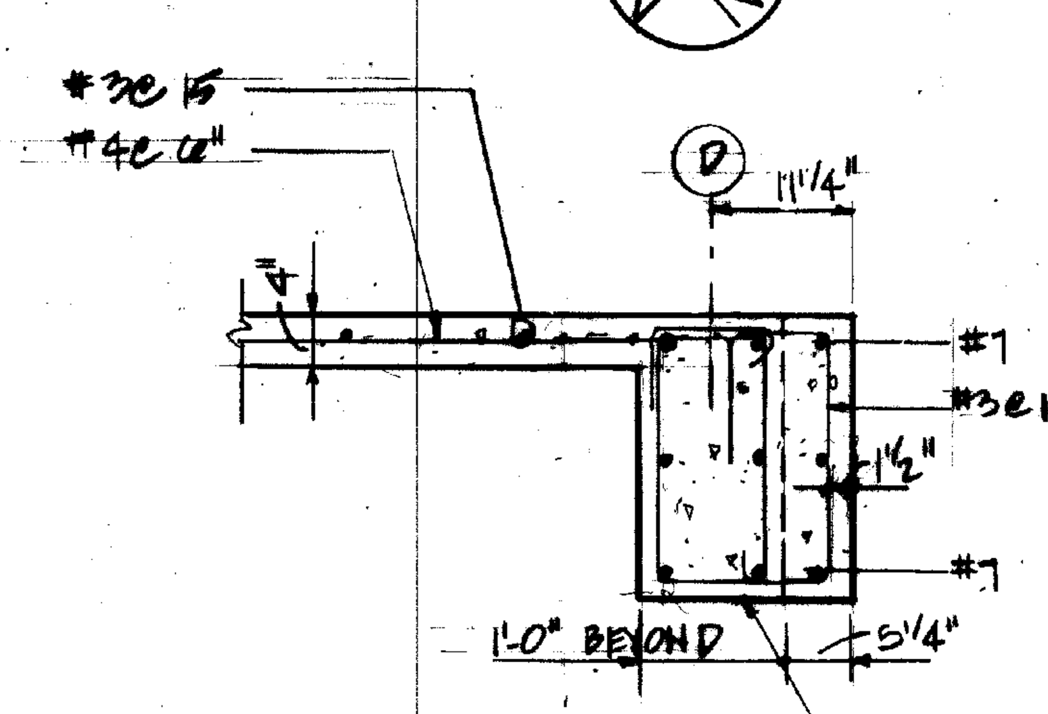
1. SEE SHEET S-1 FOR GENERAL NOTES
2. SLAB REINFORCING IS #4 @6 NORTH-SOUTH IN CENTER OF SLAB. EAST-WEST TEMPERATURE STEEL IS #3 @ 15 ABOVE THE MAIN REINF. PROVIDE ADDITIONAL #4 AT BUILDING PERIMETER AS INDICATED.
3. SHELF ANGLE 4 X 4 X 5/16. SUPPORT WITH CAST IN DUCTILE IRON WEDGE INSERTS WITH 3/4 Ø ASKEW HEAD BOLT MITER ANGLES AT CORNERS.
4. ROOF DRAIN. SEE MECHANICAL.
5. LIMITS OF REMOVAL OF EXISTING BUILDING. SAW CUT AND NEATLY BREAK EXISTING SLAB.
6. FLOOR DRAIN. SEE MECHANICAL.
7. 1/2" EXPANSION JOINT WITH SEALER
8. FOR DETAILS OF STEPS & RAMPS SEE SHEET A-39
9. BRICK LEDGE, ELEVATION = 96'-0".
10. BRICK LEDGE, ELEVATION = 96'-8"
11. BRICK LEDGE, ELEVATION = 97'4".
12. 8 INCH CONCRETE SLAB WITH #6@6" TOP AND BOTTOM NORTH-SOUTH. EAST-WEST TEMPERATURE STEEL IS #3@12" TOP AND BOTTOM.
13. TIE WALL IS 12 INCHES THICK WITH #4@12" EWEF. BOTTOM ELEVATION = 92'-6"; TOP ELEVATION = 100'-0". HOOK HORIZONTAL BARS INTO SUPPORTING WALL AT BOTH ENDS.

NOTE:
SEE DCR #6, 2/26/88

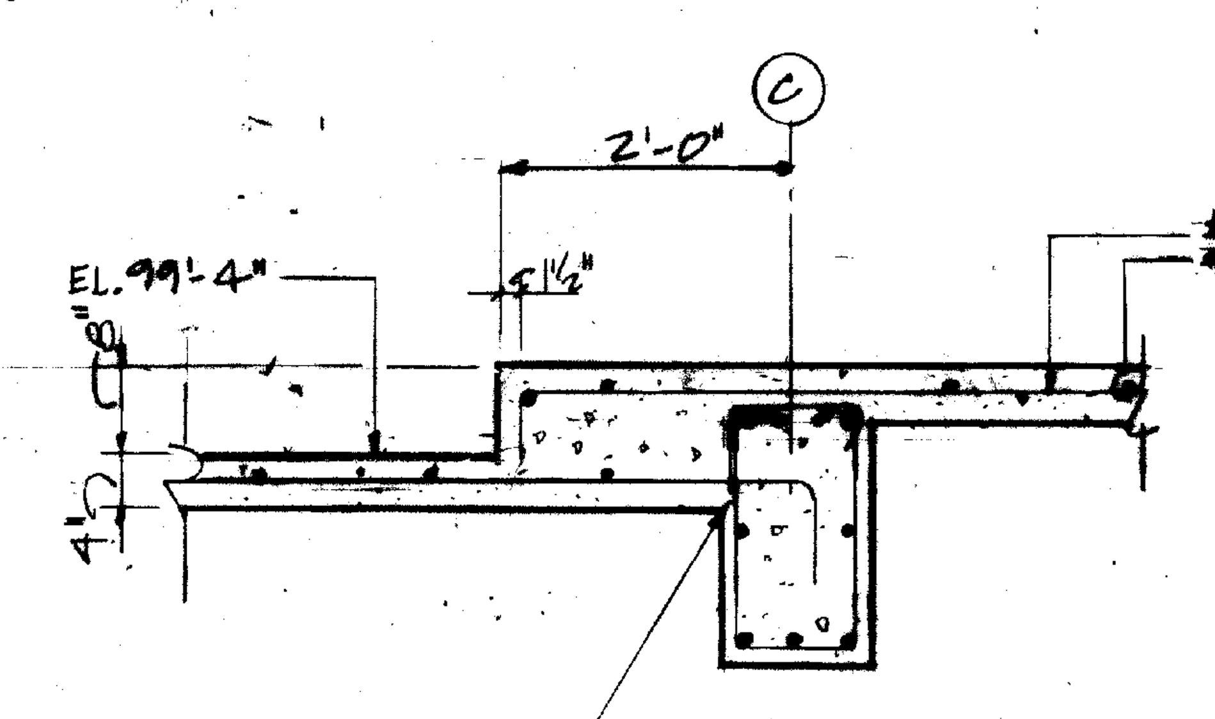


FIRST FLOOR FRAMING PLAN

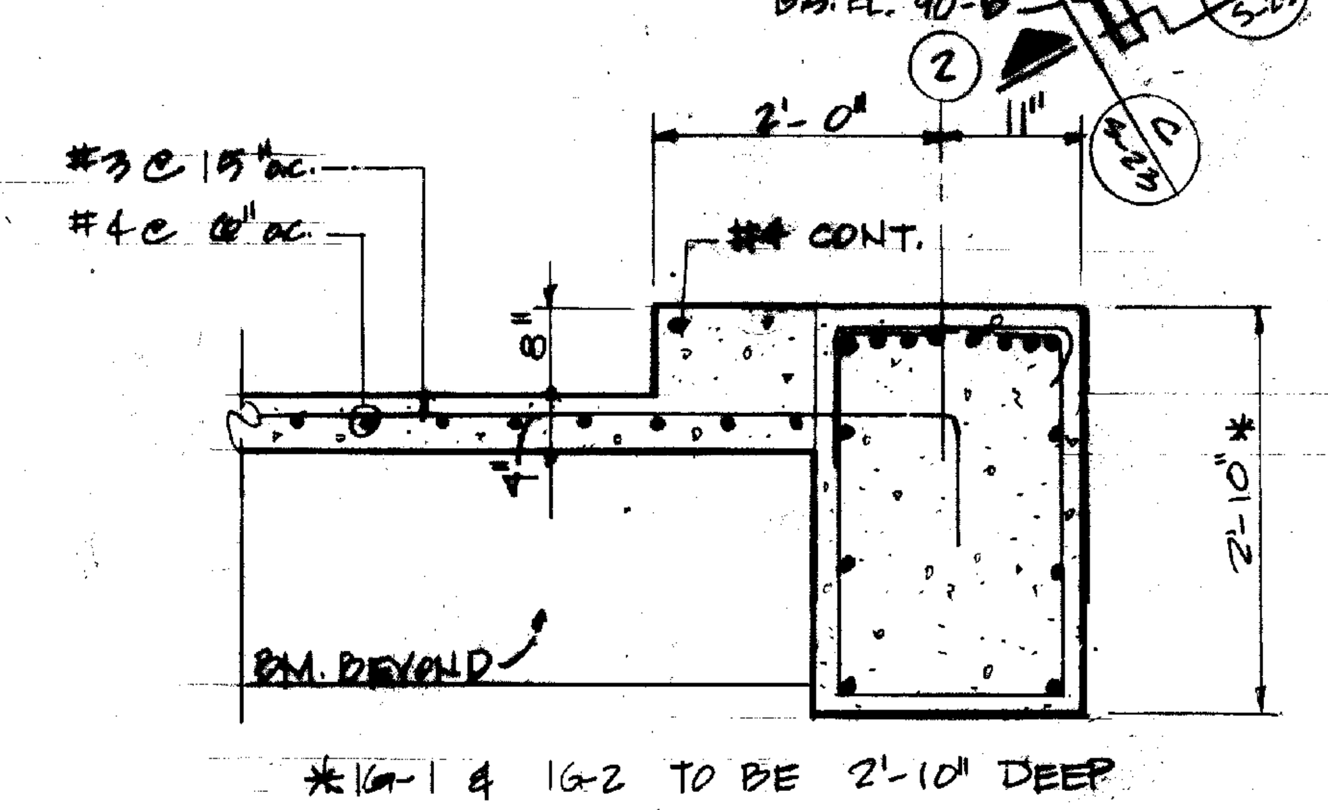
SCALE: 1/8" = 1'-0"



A SECTION S-2 SCALE: 3/4" = 1'-0"

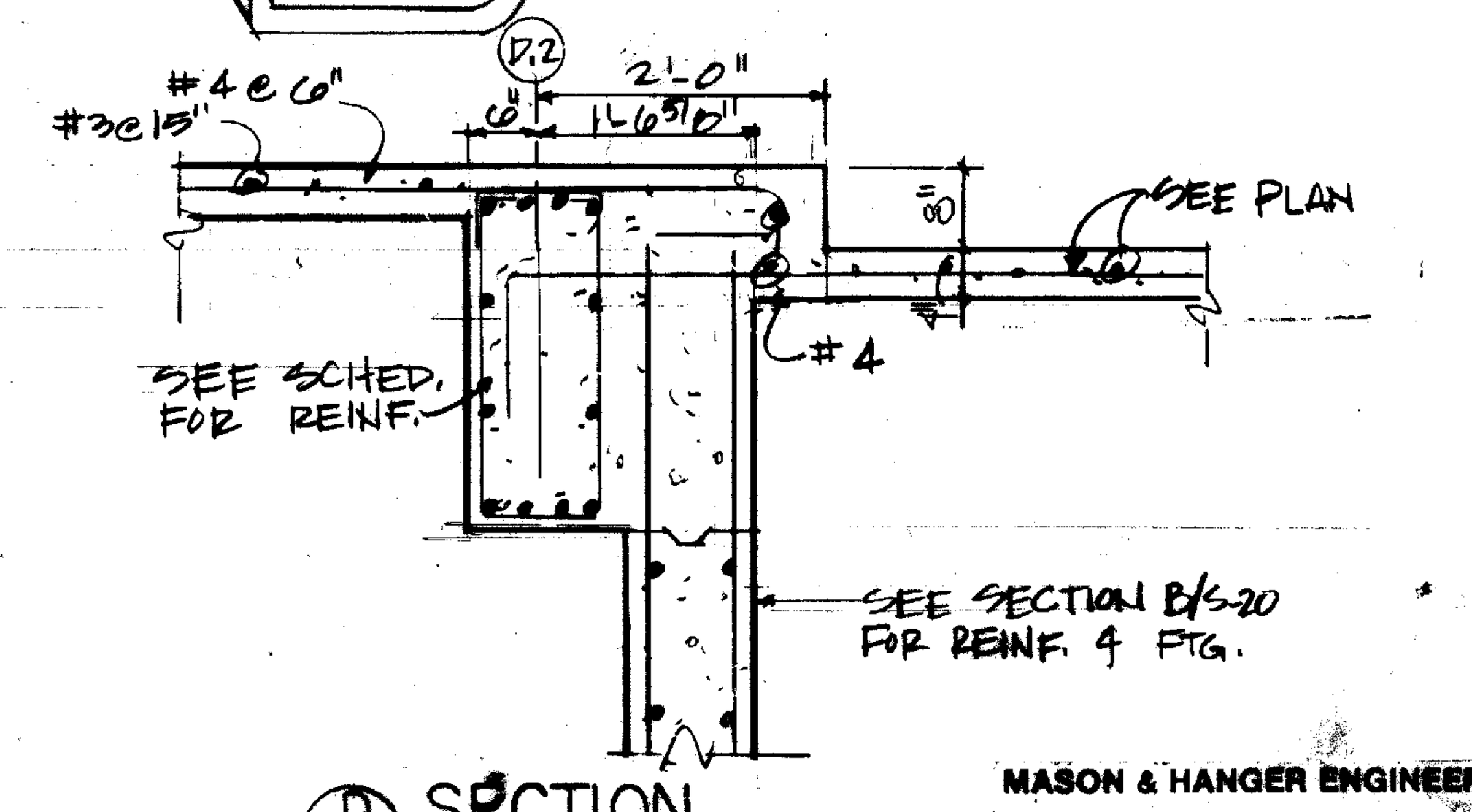


B SECTION S-2 SCALE: 3/4" = 1'-0"



*IG-1 & IG-2 TO BE 2'-10" DEEP

C SECTION S-2 SCALE: 3/4" = 1'-0"



D SECTION S-2 SCALE: 3/4" = 1'-0"

RECORD PRINTS

THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED-UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND WHICH THE ENGINEER CONSIDERS SIGNIFICANT.

MASON & HANGER ENGINEERING INC.
ARCHITECT • ENGINEERS
LEXINGTON, KENTUCKY

STATE OF KENTUCKY — ALVIN L. POPE — 6183 — REGISTERED PROFESSIONAL ENGINEER

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

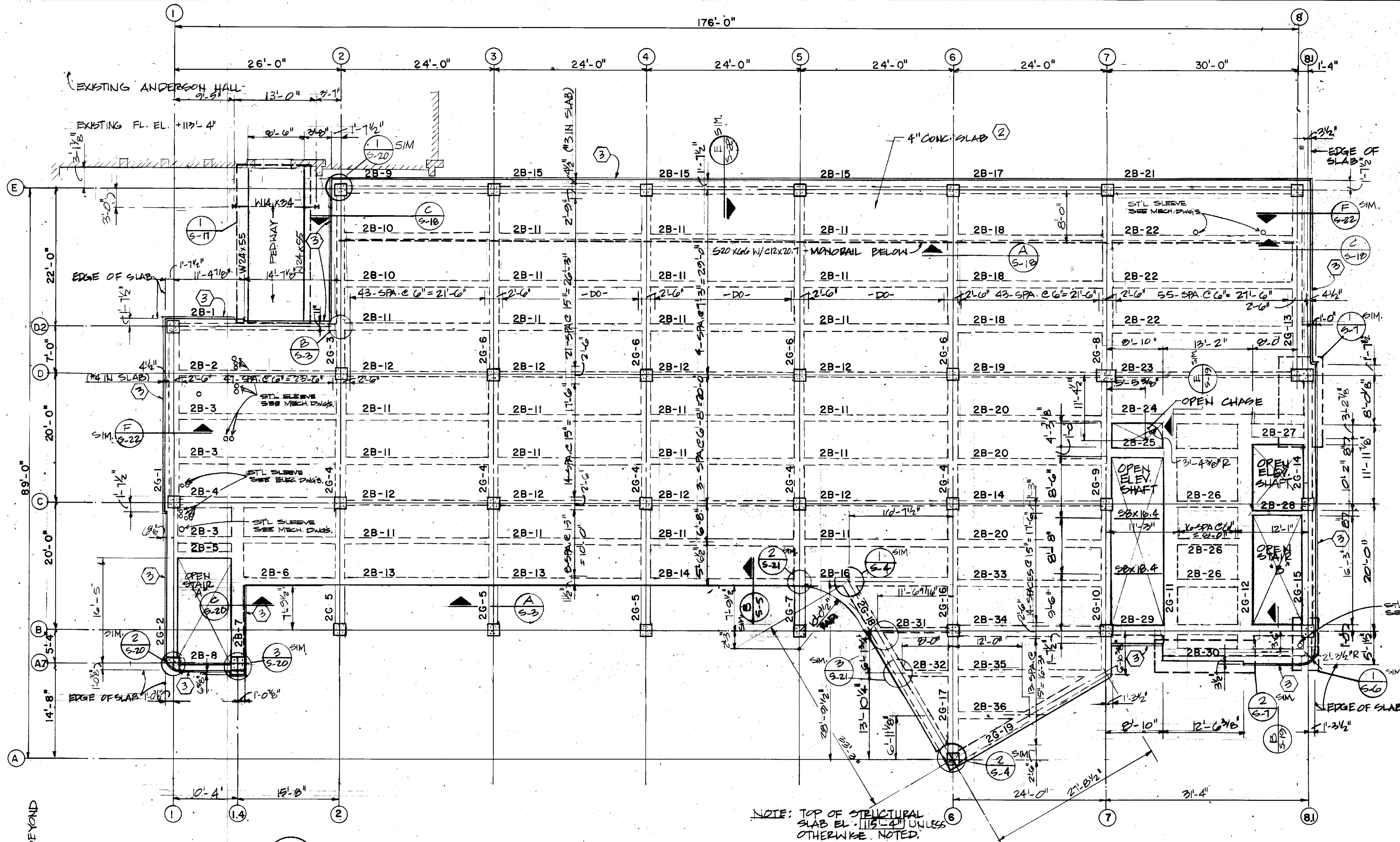
FIRST FLOOR FRAMING PLAN

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE

JOB NO.	2046
DATE	10-19-81
DRAWN	M.A.A.
CHECKED	A.L.P.
FILE NO.	431.0

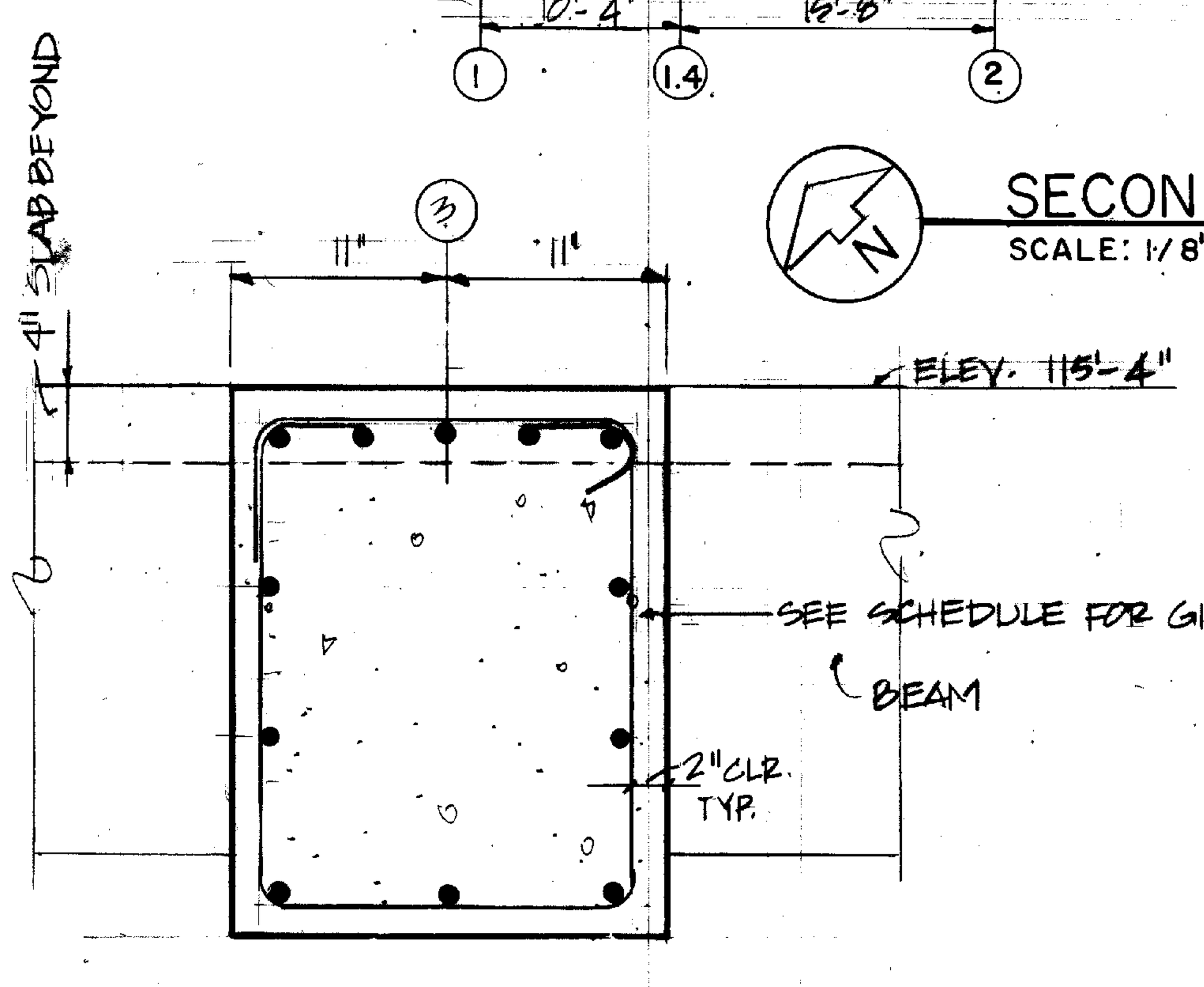
REVISIONS

SHEET
S-2

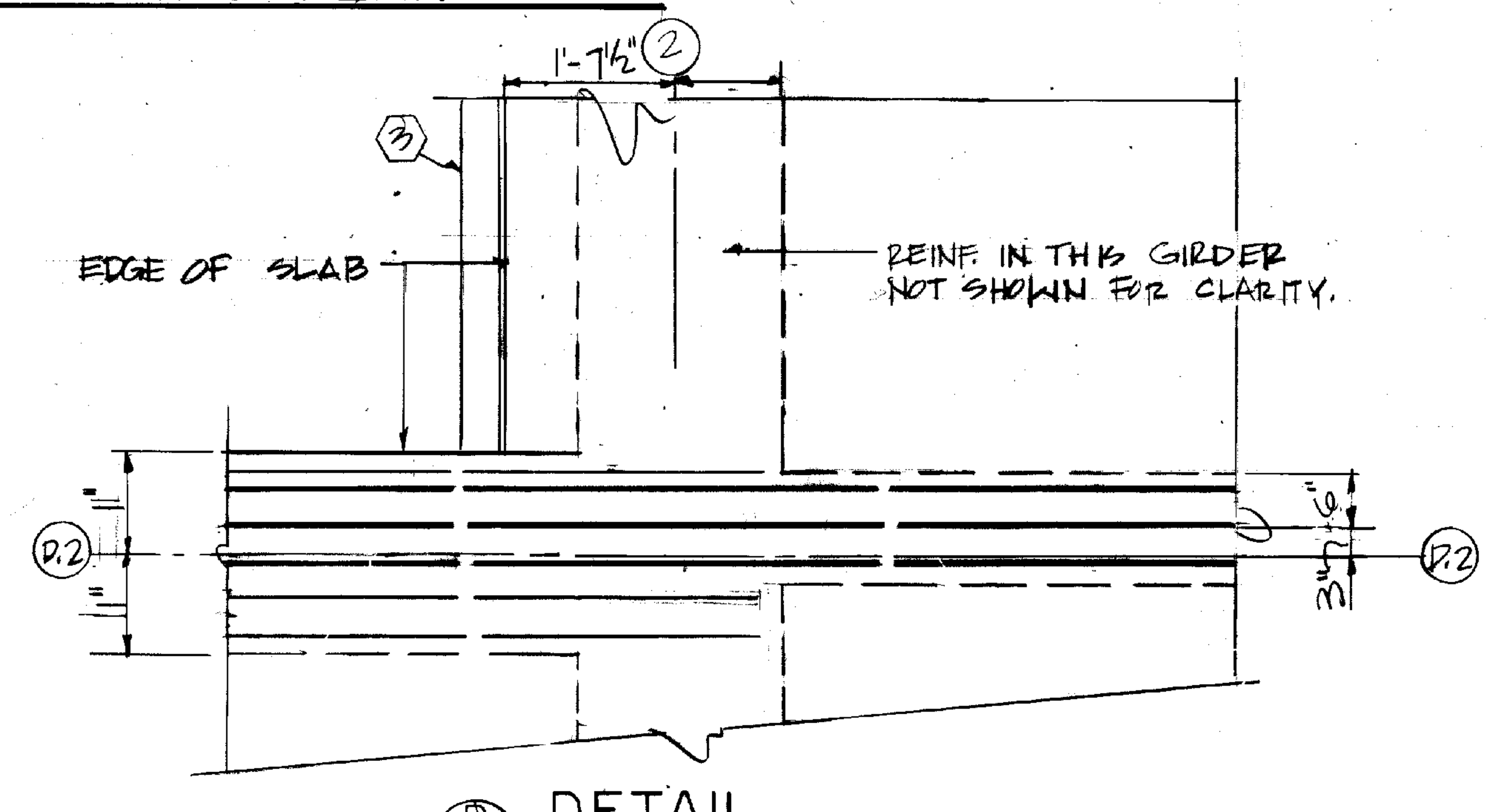


SECOND FLOOR FRAMING PLAN
SCALE: 1/8" = 1'-0"

NOTE: TOP OF STRUCTURAL SLAB EL. 115'-4" UNLESS OTHERWISE NOTED.



(A/S-3) SECTION
SCALE: 1½" = 1'-0"



(B/S-3) DETAIL
SCALE: 3/4" = 1'-0"

S-3

NOTES

1. SEE SHEET S-1 FOR GENERAL NOTES.
2. SLAB REINFORCING IS #4 @6" NORTH-SOUTH IN CENTER OF SLAB. EAST-WEST TEMPERATURE STEEL IS #3 @ 15" ABOVE THE MAIN REINF. PROVIDE ADDITIONAL REBAR AT BUILDING PERIMETER AS INDICATED.
3. SHELF ANGLE 4 X 4 X 5/16. SUPPORT WITH CAST IN DUCTILE IRON WEDGE INSERTS WITH 3/4"Ø ASKEW HEAD BOLT MITER ANGLES AT CORNERS.

NOTE:
ADD SHELF ANGLE @ EL. 114'-8" ALONG COL. LINE D.2 BETWEEN COL. LINE 1 & 2 TO CARRY THE INSET 4" CONC. BLK. ON EACH SIDE OF THE MASONRY OPNG.

RECORD PRINTS

THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED-UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND WHICH THE ENGINEER CONSIDERS SIGNIFICANT.

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
10-19-87

SECOND FLOOR FRAMING PLAN

Sherman Carter Barnhart
PARTNERS IN ARCHITECTURE

JOB NO.	2046
DATE	10-19-87
DRAWN	M.A.A.
CHECKED	A.L.P.
FILE NO.	431.0

REVISIONS

SHEET
S-3

S-4

NOTES

1. SEE SHEET S-1 FOR GENERAL NOTES.
2. SLAB REINFORCING IS #4 @6" NORTH-SOUTH IN CENTER OF SLAB. EAST-WEST TEMPERATURE STEEL IS #3 @ 15" ABOVE THE MAIN REINF. PROVIDE ADDITIONAL REBAR AT BUILDING PERIMETER AS INDICATED.
3. SHELF ANGLE 4 X 4 X 5/16. SUPPORT WITH CAST IN DUCTILE IRON WEDGE INSERTS WITH 3/4"Ø ASKEW HEAD BOLT MITER ANGLES AT CORNERS.
4. ROOF DRAIN FLUSH WITH TOP OF STRUCTURAL SLAB. SEE MECHANICAL
5. FLOOR DRAIN. DEPRESS 1/2 INCH BELOW FINISHED FLOOR AND TRANSITION SLAB ELEVATION IN A 3 FOOT DIAMETER CIRCLE. SEE MECHANICAL.

NOTE: TOP OF STRUCTURAL SLAB EL. 130'-8" UNLESS OTHERWISE NOTED.

THIRD FLOOR FRAMING PLAN

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

1 DETAIL
1/S-4 SCALE: 3/4" = 1'-0"

NOTE: ONLY TOP REINF. SHOWN, BOTTOM REINF. SIMILAR

2 DETAIL
2/S-4 SCALE: 3/4" = 1'-0"

NOTE: ONLY TOP REINF. SHOWN, BOTTOM REINF. SIMILAR.

A SECTION
A/S-4 SCALE: 3/4" = 1'-0"

B SECTION
B/S-4 SCALE: 3/4" = 1'-0"

RECORD PRINTS

THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND WHICH THE ENGINEER CONSIDERS SIGNIFICANT

MASON & HANGER ENGINEERING INC.
ARCHITECT • ENGINEERS
LEXINGTON, KENTUCKY

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

THIRD FLOOR FRAMING PLAN

Sherman Carter Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1000 • 250 WEST MAIN STREET • LEXINGTON, KY. 40507 • 606/254-1751

JOB NO. 2046
DATE 10-19-87
DRAWN M.A.A.
CHECKED A.L.P.
FILE NO 4331.0

REVISIONS

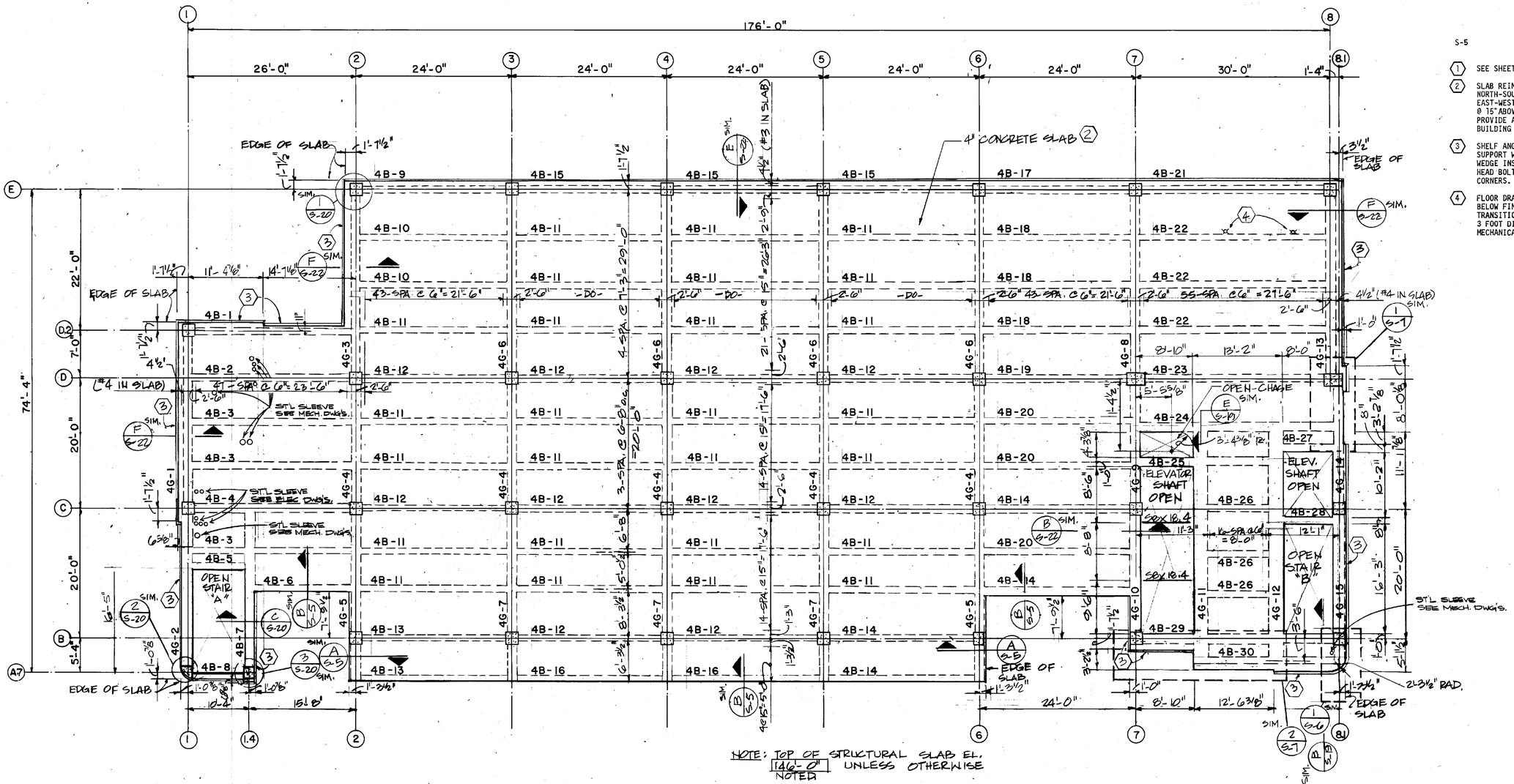
Cab.# Slot Document # 004862 B-1 82

SHEET
S-4

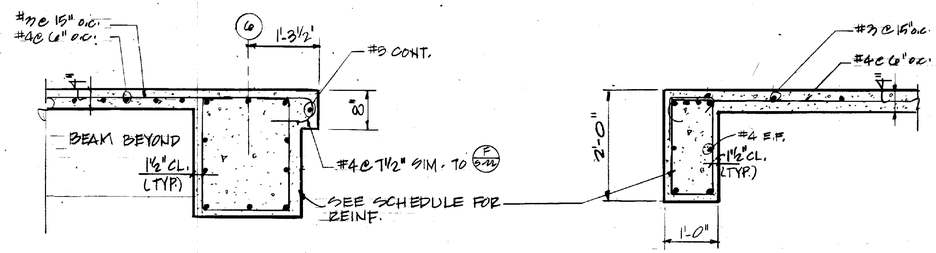
S-5

NOTES

1. SEE SHEET S-1 FOR GENERAL NOTES.
2. SLAB REINFORCING IS #4 @6" NORTH-SOUTH IN CENTER OF SLAB. EAST-WEST TEMPERATURE STEEL IS #3 @ 15" ABOVE THE MAIN REINF. PROVIDE ADDITIONAL REBAR AT BUILDING PERIMETER AS INDICATED.
3. SHELF ANGLE 4 X 4 X 5/16. SUPPORT WITH CAST IN DUCTILE IRON WEDGE INSERTS WITH 3/4" Ø ASKEW HEAD BOLT MITER ANGLES AT CORNERS.
4. FLOOR DRAIN. DEPRESS 1/2 INCH BELOW FINISHED FLOOR AND TRANSITION SLAB ELEVATION IN A 3 FOOT DIAMETER CIRCLE. SEE MECHANICAL.



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



A S-5 SECTION
SCALE: 3/4" = 1'-0"

B S-5 SECTION
SCALE: 3/4" = 1'-0"

RECORD PRINTS

THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND WHICH THE ENGINEER CONSIDERS SIGNIFICANT

MASON & HANGER ENGINEERING INC.
ARCHITECT • ENGINEERS
LEXINGTON, KENTUCKY

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

FOURTH FLOOR FRAMING PLAN

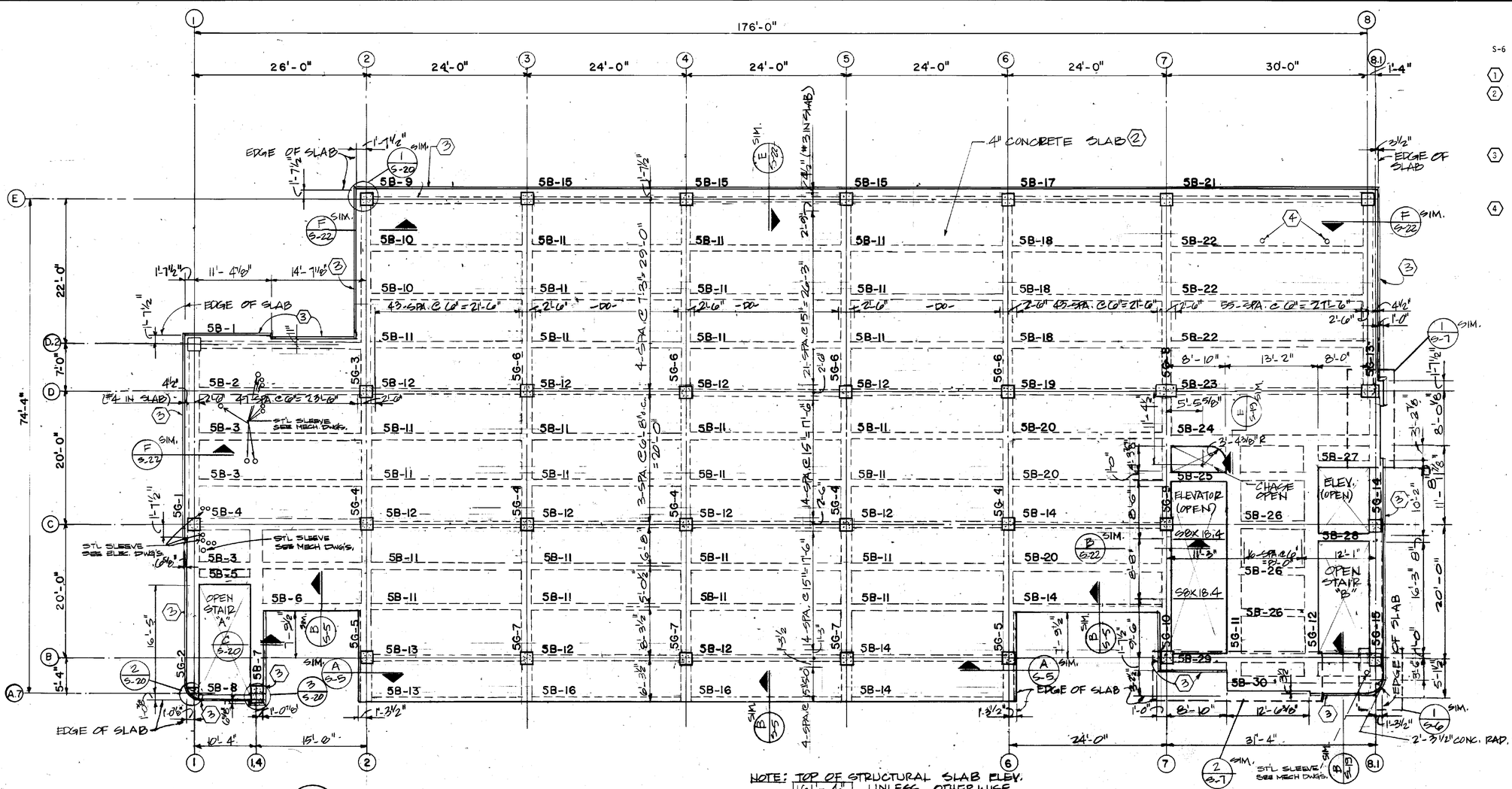
Herman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1800 • 250 WEST MAIN STREET • LEXINGTON, KY. 40507 • 606-254-1956

JOB NO. 2046
DATE 10-10-87
DRAWN M.A.A.
CHECKED A.L.P
FILE NO. 4310

REVISIONS

SHEET
S-5

Cab # 82 Shlf B-1 Document # 0048963



NOTE: TOP OF STRUCTURAL SLAB ELEV. 161'-4" UNLESS OTHERWISE NOTED.

FIFTH FLOOR FRAMING PLAN

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

1/S-6 DETAIL

SCALE: 3/4" = 1'-0"

S-6

NOTES

1. SEE SHEET S-1 FOR GENERAL NOTES.
2. SLAB REINFORCING IS #4 @6" NORTH-SOUTH IN CENTER OF SLAB. EAST-WEST TEMPERATURE STEEL IS #3 @ 15" ABOVE THE MAIN REINF. PROVIDE ADDITIONAL REBAR AT BUILDING PERIMETER AS INDICATED.
3. SHELF ANGLE 4 X 4 X 5/16. SUPPORT WITH CAST IN DUCTILE IRON WEDGE INSERTS WITH 3/4"Ø ASKEW HEAD BOLT MITER ANGLES AT CORNERS.
4. FLOOR DRAIN. DEPRESS 1/2 INCH BELOW FINISHED FLOOR AND TRANSITION ON SLAB ELEVATION IN A 3 FOOT DIAMETER CIRCLE. SEE MECHANICAL.

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved
director - design and construction division
10·19·87
date

FIFTH FLOOR FRAMING PLAN

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-1351

JOB NO 2046
DATE 10-19-87
DRAWN M.A.A.
CHECKED A.L.P.
FILE NO. 431.0

REVISIONS

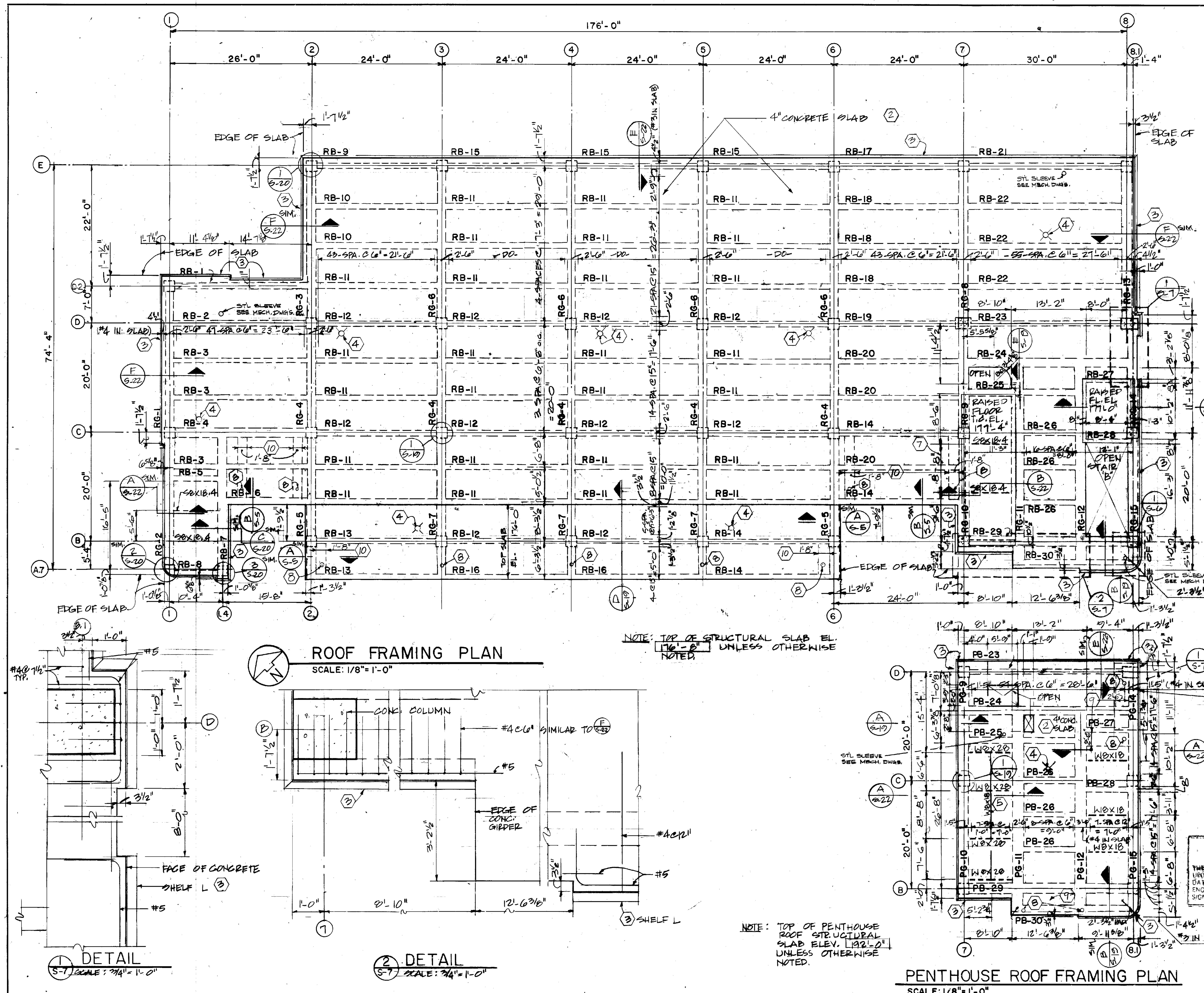
Cab #	Slot	Document #
82	B-1	004864

SHEET
S-6

RECORD PRINTS

THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND WHICH THE ENGINEER CONSIDERS SIGNIFICANT

MASON & HANGER ENGINEERING INC.
ARCHITECT • ENGINEERS
LEXINGTON, KENTUCKY



S-7

NOTES

1. SEE SHEET S-1 FOR GENERAL NOTES.
2. SLAB REINFORCING IS #4 @6" NORTH-SOUTH IN CENTER OF SLAB. EAST-WEST TEMPERATURE STEEL IS #3 @ 15" ABOVE THE MAIN REINF. PROVIDE ADDITIONAL REBAR AT BUILDING PERIMETER AS INDICATED.
3. SHELF ANGLE 4 X 4 X 5/16. SUPPORT WITH CAST IN DUCTILE IRON WEDGE INSERTS WITH 3/4" Ø ASKEW HEAD BOLT MITER ANGLES AT CORNERS.
4. ROOF DRAIN FLUSH WITH TOP OF STRUCTURE SLAB. SEE MECHANICAL
5. HOIST BEAM 23'-2" LONG. PROVIDE L3 X 3 X 1/4 TROLLEY STOP ON BOTH SIDES OF BEAM AT BOTH ENDS.
6. TO FACILITATE ADDING 2 MORE STORIES TO THE BUILDING IN THE FUTURE, AT EACH COLUMN PROVIDE THREADED DOWELS AND STRAIGHT REBAR COUPLERS FOR EACH COLUMN REBAR. INCREASE DOWEL BAR SIZE AS REQUIRED TO DEVELOP 125% OF A CLASS A TENSION SPLICE AT THE ROOT OF THE THREADS AND POSITION THE DOWELS SO THAT FUTURE COLUMN REBARS CAN ALIGN WITH THE REBARS AT THE TOP OF THE PRESENT COLUMNS.
7. COORDINATE WITH ELEVATOR EQUIPMENT FURNISHED.
8. WINDOW WASHING ANCHORS. SEE ARCHITECTURAL.
9. THICKEN SLAB TO 12 INCHES WITH #4@12 IN BOTTOM
10. 12 INCH DEEP BEAM WITH 3#5 TOP AND BOTTOM. #3 STIRRUPS @ 12. CENTER BEAM UNDER WINDOW WASHING ANCHOR

RECORD PRINTS

THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED-UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND WHICH THE ENGINEER CONSIDERS SIGNIFICANT.

MASON & HANGER ENGINEERING INC.
ARCHITECT • ENGINEERS
LEXINGTON, KENTUCKY

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

ROOF FRAMING PLAN

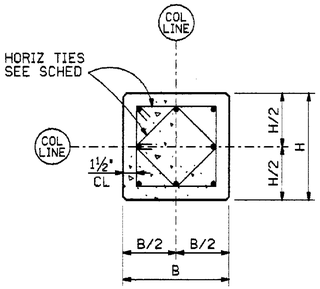
Sherman Carter Barnhart
PARTNERS IN ARCHITECTURE

JOB NO	2046
DATE	10-19-87
DRAWN	M.A.A.
CHECKED	A.L.P.
FILE NO	431.0

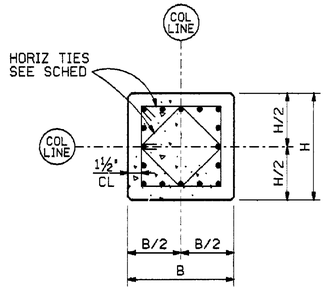
REVISIONS

SHEET
S-7

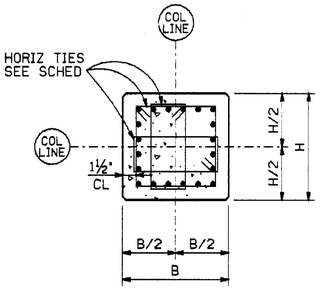
FOUNDATION & COLUMN SCHEDULE



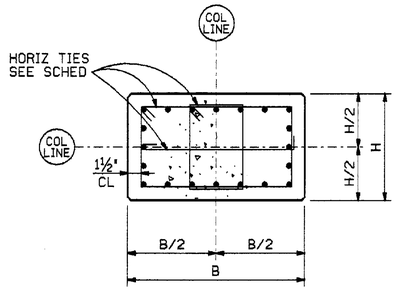
TYPE 1



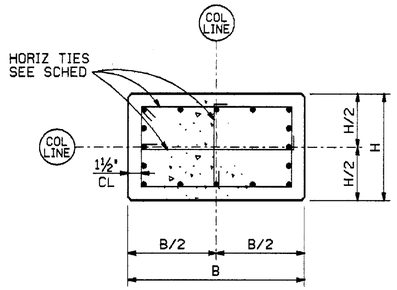
TYPE 2



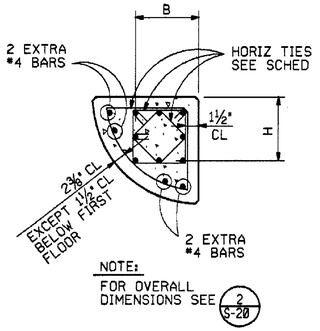
TYPE 3



TYPE 4

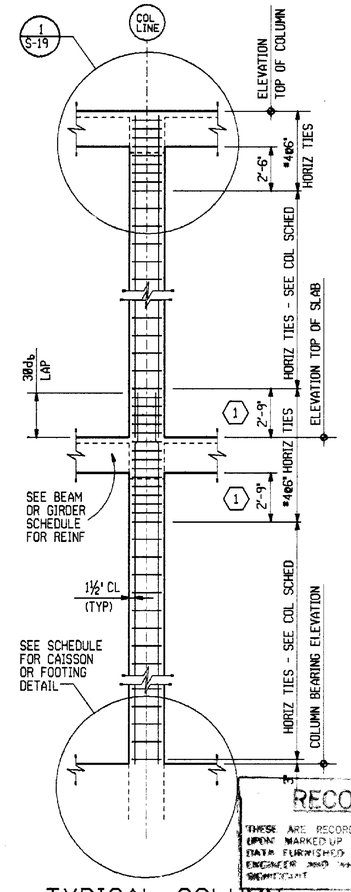


TYPE 5



TYPE 6

	LOCATION	A-6	A.7-1	A.7-1.4	B-2	B-3	B-4	B-5	B-6	B-7	B-8.1	C-1	C-2	C-3	C-4 C-5	C-6	C-7	C-8.1	D-2	D-3	D-4	D-5 D-6	D-7	D-8.1	D.2-1	D.6-1	E-2	E-3	E-4 E-5 E-6	E-7	E-8
ROOF	EL TOP OF COLUMN	138'-0"	176'-8"	176'-8"	176'-0"	176'-0"	176'-0"	176'-0"	176'-0"	192'-0"	192'-0"	176'-8"	176'-8"	176'-8"	176'-8"	176'-8"	192'-0"	192'-0"	176'-8"	176'-8"	176'-8"	176'-8"	192'-0"	192'-0"	176'-8"	99'-4"	176'-8"	176'-8"	176'-8"	176'-8"	176'-8"
	EL TOP OF PENTHSE ROOF									192'-0"	192'-0"						192'-0"	192'-0"					192'-0"	192'-0"							
	SIZE (B X H)									24" X 24"	24" X 24"						24" X 24"	24" X 24"					24" X 24"	40" X 24"							
	VERTICAL REINFORCING									16 #11	16 #11						8 #8	8 #8					16 #8	16 #8							
	HORIZONTAL TIES									#4 @ 12"	#4 @ 12"						#3 @ 12"	#3 @ 12"					#3 @ 12"	#3 @ 12"							
	TYPE									2	2						1	1					5	5							
FIFTH FLOOR	EL TOP OF ROOF SLAB		176'-8"	176'-8"	176'-0"	176'-0"	176'-0"	176'-0"	176'-0"	177'-4"	176'-8"	176'-8"	176'-8"	176'-8"	176'-8"	176'-8"	176'-8"	177'-0"	176'-8"	176'-8"	176'-8"	176'-8"	176'-8"	176'-8"	176'-8"		176'-8"	176'-8"	176'-8"	176'-8"	176'-8"
	SIZE (B X H)		15" X 15"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	36" X 24"	40" X 24"	24" X 24"		24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"
	VERTICAL REINFORCING		8 #8	8 #8	8 #8	8 #8	8 #8	8 #11	8 #8	16 #11	16 #11	8 #8	8 #8	8 #8	8 #8	8 #8	8 #8	8 #8	8 #8	8 #8	8 #8	8 #8	8 #8	16 #8	16 #8	8 #8		8 #10	8 #10	8 #10	8 #8	8 #10
	HORIZONTAL TIES		#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#4 @ 12"	#3 @ 12"	#4 @ 12"	#4 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"		#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"
	TYPE		6	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	5	5	1		1	1	1	1	1
FOURTH FLOOR	EL. TOP OF SLAB		-	-	161'-4"	161'-4"	161'-4"	161'-4"	161'-4"	161'-4"	161'-4"	161'-4"	161'-4"	161'-4"	161'-4"	161'-4"	161'-4"	161'-4"	161'-4"	161'-4"	161'-4"	161'-4"	161'-4"	161'-4"	161'-4"		161'-4"	161'-4"	161'-4"	161'-4"	161'-4"
	SIZE (B X H)		15" X 15"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	36" X 24"	40" X 24"	24" X 24"		24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"
	VERTICAL REINFORCING		8 #8	8 #8	8 #8	8 #8	8 #8	16 #11	8 #8	16 #11	16 #11	8 #8	8 #8	8 #8	8 #8	8 #8	8 #8	8 #8	8 #8	8 #8	8 #8	8 #8	8 #8	16 #8	16 #8	8 #8		8 #10	8 #10	8 #10	8 #8	8 #10
	HORIZONTAL TIES		#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#4 @ 12"	#3 @ 12"	#4 @ 12"	#4 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"		#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"
	TYPE		6	1	1	1	1	2	1	2	2	1	1	1	1	1	1	1	1	1	1	1	5	5	1		1	1	1	1	1
THIRD FLOOR	EL. TOP OF SLAB		-	-	146'-0"	146'-0"	146'-0"	146'-0"	146'-0"	146'-0"	146'-0"	146'-0"	146'-0"	146'-0"	146'-0"	146'-0"	146'-0"	146'-0"	146'-0"	146'-0"	146'-0"	146'-0"	146'-0"	146'-0"	146'-0"		146'-0"	146'-0"	146'-0"	146'-0"	146'-0"
	SIZE (B X H)		15" X 15"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	36" X 24"	40" X 24"	24" X 24"		24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"
	VERTICAL REINFORCING		8 #10	8 #8	8 #8	8 #8	8 #8	16 #11	8 #8	16 #11	16 #11	8 #8	8 #10	8 #10	8 #10	8 #10	16 #10	16 #10	16 #10	16 #10	16 #10	16 #10	20 #11	16 #9	8 #10		16 #10	16 #10	16 #10	8 #10	16 #10
	HORIZONTAL TIES		#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#4 @ 12"	#3 @ 12"	#4 @ 12"	#4 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#4 @ 12"	#3 @ 12"	#3 @ 12"		#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"
	TYPE		6	1	1	1	1	2	1	2	2	1	1	1	1	1	2	2	2	2	2	2	4	5	1		2	2	2	1	2
SECOND FLOOR	EL. TOP OF SLAB	130'-0"	-	-	130'-8"	130'-8"	130'-8"	-	130'-0"	130'-8"	130'-8"	130'-8"	130'-8"	130'-8"	130'-8"	130'-8"	130'-8"	130'-8"	130'-8"	130'-8"	130'-8"	130'-8"	130'-8"	130'-8"	130'-8"		130'-8"	130'-8"	130'-8"	130'-8"	130'-8"
	SIZE (B X H)	24" X 24"	15" X 15"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	36" X 24"	40" X 24"	24" X 24"		24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"
	VERTICAL REINFORCING	8 #8	8 #10	8 #8	8 #8	8 #8	8 #8	16 #11	8 #8	16 #11	16 #11	8 #8	8 #10	8 #10	8 #10	8 #10	16 #10	16 #10	16 #10	16 #10	16 #10	16 #10	20 #11	16 #9	8 #10		16 #10	16 #10	16 #10	8 #10	16 #10
	HORIZONTAL TIES	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#4 @ 12"	#3 @ 12"	#4 @ 12"	#4 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#4 @ 12"	#3 @ 12"	#3 @ 12"		#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"
	TYPE	1	6	1	1	1	1	2	1	2	2	1	1	1	1	1	2	2	2	2	2	2	4	5	1		2	2	2	1	2
FIRST FLOOR	EL. TOP OF SLAB	115'-4"	-	-	-	-	-	-	115'-4"	115'-4"	115'-4"	115'-4"	115'-4"	115'-4"	115'-4"	115'-4"	115'-4"	115'-4"	115'-4"	115'-4"	115'-4"	115'-4"	115'-4"	115'-4"	115'-4"		115'-4"	115'-4"	115'-4"	115'-4"	115'-4"
	SIZE (B X H)	24" X 24"	15" X 15"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	36" X 24"	40" X 24"	24" X 24"		24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"
	VERTICAL REINFORCING	8 #8	8 #11	8 #8	8 #10	8 #10	8 #10	16 #11	8 #10	20 #11	20 #11	16 #10	16 #10	16 #10	16 #10	16 #10	16 #11	16 #11	16 #11	16 #11	16 #11	16 #11	20 #11	20 #11	16 #10	8 #8	16 #10	16 #10	16 #10	16 #10	16 #10
	HORIZONTAL TIES	#3 @ 12"	#4 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#4 @ 12"	#3 @ 12"	#4 @ 12"	#4 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#4 @ 12"	#4 @ 12"	#4 @ 12"	#4 @ 12"	#4 @ 12"	#4 @ 12"	#4 @ 12"	#3 @ 12"	#3 @ 12"		#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"
	TYPE	1	6	1	1	1	1	1	1	3	3	2	2	2	2	2	2	2	2	2	2	2	4	4	2		2	2	2	1	2
	EL. TOP OF SLAB	-	-	-	99'-4"	99'-4"	99'-4"	99'-4"	99'-4"	100'-0"	100'-0"	100'-0"	100'-0"	100'-0"	100'-0"	100'-0"	100'-0"	100'-0"	100'-0"	100'-0"	100'-0"	100'-0"	100'-0"	100'-0"	100'-0"	99'-4"	-	-	-	100'-0"	97'-6"
BASEMENT	SIZE (B X H)	24" X 24"	15" X 15"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	36" X 24"	40" X 24"	24" X 24"	16" X 16"	24" X 24"	24" X 24"	24" X 24"	24" X 24"	24" X 24"
	VERTICAL REINFORCING	8 #8	8 #11	8 #8	8 #10	8 #10	8 #10	16 #11	8 #10	20 #11	20 #11	16 #10	16 #10	16 #10	16 #10	16 #10	16 #10	16 #11	16 #11	16 #11	16 #11	16 #11	16 #11	20 #11	16 #10	8 #8	16 #10	16 #10	16 #10	16 #10	16 #10
	HORIZONTAL TIES	#3 @ 12"	#4 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#4 @ 12"	#3 @ 12"	#4 @ 12"	#4 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#4 @ 12"	#4 @ 12"	#4 @ 12"	#4 @ 12"	#4 @ 12"	#4 @ 12"	#4 @ 12"	#3 @ 12"	#3 @ 12"		#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"	#3 @ 12"
	TYPE OR DETAIL	1	5 S-14	6 S-14	7 S-14	8 SIM S-14	8 S-14	8 SIM S-14	8 SIM S-14	9 S-14	10 S-14	4 S-14	2	2	2	2	2	11 S-14	3 S-14	2	2	2	4	12 S-14	1 SIM S-14	1	1 SIM S-14	2 SIM S-14	2 S-14	2 SIM S-14	1 SIM S-14
	COLUMN BEARING EL.	88'-2¼"	85'-0"	85'-0"	82'-2"	75'-9"	81'-0"	81'-0"	81'-0"	77'-0"	82'-0"	85'-0"	84'-9"	80'-9"	76'-11"	81'-5"	77'-0"	77'-0"	82'-0"	78'-4"	81'-0"	82'-2"	82'-2"	82'-0"	85'-0"	82'-6"	81'-0"	82'-3"	82'-3"	80'-9"	78'-2"
CAISSON	SIZE (DIAMETER)	3'-6"					4'-3"	4'-3"	4'-3"												5'-6"					5'-6"				
	VERTICAL REINFORCING	8 #10					8 #10	8 #10	8 #10												8 #10					8 #10				
	HORIZONTAL TIES	#3 @ 12"					#3 @ 12"	#3 @ 12"	#3 @ 12"												#3 @ 12"					#3 @ 12"				
	DETAIL	13 S-14					13 S-14	13 S-14	13 S-14												13 S-14					13 S-14				
	BOTTOM CAISSON EL.	64'-6"					70'-6"	65'-9"	70'-7"												70'-0"					68'-0"				
FOOTING	DIMENSION 'A'		3'-7"	3'-10¾"	4'-0"	4'-0"				5'-3"	5'-3"	4'-6"	4'-6"	4'-6"	4'-6"	4'-6"	4'-9"	4'-9"	5'-0"	5'-0"			5'-0"	6'-0"	6'-0"	5'-0"	3'-0"		5'-0"	5'-0"	5'-0"
	DIMENSION 'B'		3'-10¾"	3'-7"	4'-0"	4'-0"				5'-3"	5'-3"	4'-6"	4'-6"	4'-6"	4'-6"	4'-6"	4'-9"	4'-9"	5'-0"	5'-0"			5'-0"	6'-0"	6'-0"	5'-0"	3'-0"		5'-0"	5'-0"	5'-0"
	DIMENSION 'C'		2'-6"	2'-6"	2'-3"	2'-3"				2'-6"	2'-6"	2'-3"	2'-3"	2'-3"	2'-3"	2'-3"	2'-6"	2'-6"	2'-6"	2'-6"			2'-6"	2'-6"	2'-6"	2'-6"	2'-0"		2'-6"	2'-6"	2'-6"
	VERTICAL DOWELS		8 #11	8 #11	8 #10	8 #10				20 #11	20 #11	16 #10	16 #10	16 #10	16 #10	16 #10	16 #11	16 #11	16 #11	16 #11			16 #11	20 #11	16 #10	8 #8			16 #10	16 #10	16 #10
	REINFORCING (BOTTOM) N - S		#7 @ 6"	#7 @ 6"	#6 @ 6"	#6 @ 6"				#7 @ 6"	#7 @ 6"	#7 @ 8"	#7 @ 8"	#7 @ 8"	#7 @ 8"	#7 @ 8"	#7 @ 6"	#7 @ 6"	#7 @ 6"	#7 @ 6"			#7 @ 6"	#8 @ 6"	#8 @ 6"	#7 @ 6"	#6 @ 6"		#7 @ 6"	#7 @ 6"	#7 @ 6"
	(BOTTOM) E - W		#7 @ 6"	#7 @ 6"	#6 @ 6"	#6 @ 6"				#7 @ 6"	#7 @ 6"	#7 @ 8"	#7 @ 8"	#7 @ 8"	#7 @ 8"	#7 @ 8"	#7 @ 6"	#7 @ 6"	#7 @ 6"	#7 @ 6"			#7 @ 6"	#8 @ 6"	#8 @ 6"	#7 @ 6"	#6 @ 6"		#7 @ 6"	#7 @ 6"	#7 @ 6"
	BOTTOM FOOTING EL.		82'-6"	82'-6"	79'-11"	73'-6"				74'-6"	79'-6"	82'-9"	82'-6"	78'-6"	74'-8"	79'-2"	74'-6"	74'-6"	79'-6"	73'-10"			79'-8"	79'-8"	79'-6"	82'-6"	80'-6"		79'-9"	79'-9"	78'-3"
	DETAIL		14 S-14	14 S-14	14 S-14	14 S-14				14 S-14	14 S-14	14 S-14	14 S-14	14 S-14	14 S-14	14 S-14	14 S-14	14 S-14	14 S-14	14 S-14			14 S-14	14 S-14	14 S-14	14 S-14	14 S-14		14 S-14	14 S-14	14 S-14



TYPICAL COLUMN REINFORCEMENT

NO SCALE

1 THIS DIMENSION SHALL BE:
5'-0" FOR B-2 @ FIRST & THIRD FLOORS
5'-0" FOR B-3 @ FIRST & THIRD FLOORS
5'-0" FOR B-4 @ FIRST & THIRD FLOORS
7'-6" FOR B-5 @ FIRST & FOURTH FLOORS

MASON & HANGER ENGINEERING INC.
ARCHITECT - ENGINEERS
LEXINGTON, KENTUCKY

RECORD PRINTS
THESE ARE RECORD PRINTS OF DRAWINGS & DATA FURNISHED BY THE CONTRACTOR TO ENGINEER AND MARKED UP BY THE ENGINEER CONCERNING CONSTRUCTION

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

FOUNDATION & COLUMN SCHEDULE

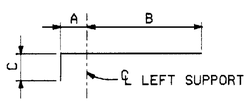
Sherman Carter Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1000 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606 754 1351

JOB NO.	2046
DATE	10-19-87
DRAWN	DAH
CHECKED	JEB
FILE NO.	431.0

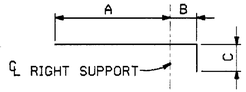
Cab # 82 Slot D-1 Document # 004866

SHEET
S-8

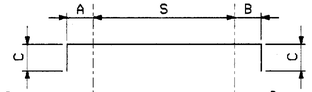
BEAM SCHEDULE



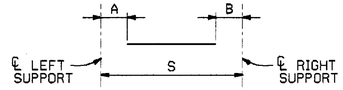
TYPE A



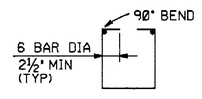
TYPE B



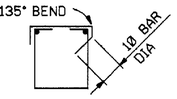
TYPE C



TYPE D



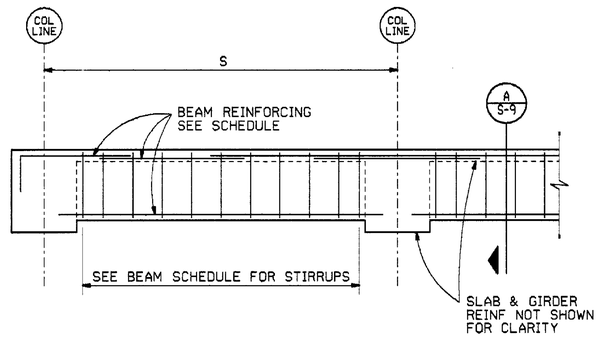
TYPE 1



TYPE 2

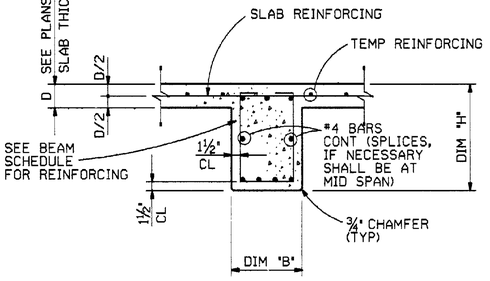
MARK	SIZE B IN	SIZE H IN	NO.& SIZE	BOT	TOP	BEND	TYPE	BAR TYPE DIMENSIONS A FT-IN	B FT-IN	C FT-IN	S FT-IN	SECTION S	STIRRUPS NO.& SIZE	SPACING FROM FACE OF SUPPORT 2'	4'	6'	8'	10'	12'	18'	END	TYPE	REMARKS
1B-1	12	24	4 #7		X	C		0-9	0-9	0	26-0		28#4					14			RIGHT	2	A S-21
			4 #7	X		C		0-9	0-9	0								14			LEFT	2	
2B-1	22	28	3 #7		X	A		0-9	7-4	0	26-0		28#4					14			RIGHT	2	B S-3
3B-1			3 #4		X	C		0-7	0-7	0								14			LEFT	2	
			3#10		X	B		9-10	9-10	0													
			4 #8	X		A		0-7	26-0	0													
4B-1	12	24	2 #6		X	A		0-8	16-0	0	26-0		28#3					14			RIGHT	2	
5B-1			2 #6		X	A		0-8	5-4	0								14			LEFT	2	
RB-1			4 #8		X	B		9-10	9-10	0													
			3 #7	X		D		0-5	0-5														
1B-2	12	24	3 #7		X	C		0-9	0-9	0	26-0		28#4					14			RIGHT	1	
			3 #7	X		C		0-9	0-9	0								14			LEFT	1	
2B-2	12	24	2 #6		X	A		0-8	5-4	0	26-0		44#3	1	12			9			RIGHT	1	
3B-2			2 #8		X	B		9-10	9-10	0				1	12			9			LEFT	1	
4B-2			2 #8		X	B		6-0	6-0	0													
5B-2			2 #6		X	A		0-8	16-0	0													
RB-2			2 #8	X		D		0-5	0-5														
1B-3	12	24	3 #7		X	A		1-0	18-2	0	26-0		28#4					14			RIGHT	1	
	OR		2 #8		X	B		9-10	9-10	0								14			LEFT	1	
	12	32	2 #8		X	B		6-0	6-0	0													
			3 #8	X		D		0-5	0-5														
2B-3	12	24	2 #6		X	A		0-8	16-0	0	26-0		28#3					14			RIGHT	1	
3B-3			2 #6		X	A		0-8	5-4	0								14			LEFT	1	
4B-3			2 #8		X	B		9-10	9-10	0													
5B-3			2 #8		X	B		6-0	6-0	0													
RB-3			2 #8	X		D		0-5	0-5														
1B-4	22	28	6 #8		X	A		0-8	8-0	0	26-0		44#3	1	12			9			RIGHT	1	
2B-4			2 #7		X	D		6-0	9-0					1	12			9			LEFT	1	
3B-4			4 #8		X	B		11-0	11-0	0													
4B-4			6 #8	X		D		0-5	0-5														
5B-4																							
RB-4																							
1B-5	12	22	2 #5		X	C		0-8	0-8	0	10-4		0										
2B-5			2 #5	X		C		0-8	0-8	0													
3B-5																							
4B-5																							
5B-5																							
RB-5																							
1B-6	12	24	4 #7		X	A		0-9	25-6	0	15-8		28#4	1		13					RIGHT	1	
			2 #8	X		D		0-5	0-5					1		13					LEFT	1	
2B-6	12	24	2 #7		X	A		0-9	5-4	0	15-8		28#3	1		13					RIGHT	2	
3B-6			2 #7		X	A		0-9	25-6	0				1		13					LEFT	2	
4B-6			2 #7		X	B		6-0	6-0	0													
5B-6			2 #8	X		D		0-5	0-5														
RB-6																							
1B-7	24	24	3 #6		X	X	C	0-5	0-5	1-0	25-4		28#3	1				13			RIGHT	2	
2B-7			7 #8	X		X	C	0-5	0-5	1-0				1				13			LEFT	2	
3B-7																							
4B-7																							
5B-7																							
RB-7																							
1B-8	12	24	2 #5		X	D		8-0	8-0		24-0		42#3	1	12			8			RIGHT	2	
			2 #7		X	B		9-10	9-10	0				1	12			8			LEFT	2	
			2 #7		X	B		6-0	6-0	0													
			2 #8	X		D		0-5	0-5														
2B-8	3½	24	2 #5		X	C		0-8	0-8	0	10-4		12#3	1			1	4			RIGHT	1	2 S-20
3B-8			2 #5	X		C		0	0	0				1			1	4			LEFT	1	
4B-8																							
5B-8																							
RB-8																							

MARK	SIZE B IN	SIZE H IN	NO.& SIZE	BOT	TOP	BEND	TYPE	BAR TYPE DIMENSIONS A FT-IN	B FT-IN	C FT-IN	S FT-IN	SECTION S	STIRRUPS NO.& SIZE	SPACING FROM FACE OF SUPPORT 2'	4'	6'	8'	10'	12'	18'	END	TYPE	REMARKS
1B-9	12	24	2 #5		X	A		0-8	16-0	0	24-0		42#3	1	12			8			RIGHT	2	
2B-9			2 #7		X	B		9-10	9-10	0				1	12			8			LEFT	2	
3B-9			2 #7		X	B		6-0	6-0	0													
4B-9			2 #8	X		D		0-5	0-5														
5B-9			2 #5		X	A		0-8	5-4														
RB-9																							
3B-13																							
4B-13																							
5B-13																							
RB-13																							
1B-10	12	24	2 #7		X	B		9-10	9-10	0	24-0		42#3	1	12			8			RIGHT	2	
			2 #7		X	B		6-0	6-0	0				1	12			8			LEFT	2	
			2 #5		X	D		8-0	8-0														
			2 #8	X		D		0-5	0-5														
2B-10	12	24	2 #5		X	A		0-8	16-0	0	24-0		26#3					13			RIGHT	1	
3B-10			2 #7		X	B		9-10	9-10	0								13			LEFT	1	
4B-10			2 #7		X	B		6-0	6-0	0													
5B-10			2 #8	X		D		0-5	0-5														
RB-10			2 #5		X	A		0-8	5-4														
1B-11	12	24	2 #7		X	B		9-10	9-10	0	24-0		26#3					13			RIGHT	1	
2B-11			2 #7		X	B		6-0	6-0	0								13			LEFT	1	
3B-11			2 #5		X	D		8-0	8-0														
4B-11			2 #8	X		D		0-5	0-5														
5B-11																							
RB-11																							
1B-12	12	24	2 #7		X	B		9-10	9-10	0	24-0		42#3	1	12			8			RIGHT	1	
2B-12			2 #7		X	B		6-0	6-0	0				1	12			8			LEFT	1	
3B-12			2 #5		X	D		8-0	8-0														
4B-12			2 #8	X		D		0-5	0-5														
5B-12																							
RB-12																							
2B-13																							
1B-13	16	28	4 #7		X	C		0-9	0-9	0	18-1		14#4							7	RIGHT	1	1 S-16
			4 #7	X		C		0-9	0-9	0										7	LEFT	1	
1B-14	16	34	5 #8		X	X	A	0-9	34-0	1-4	24-0		36#4	1				12			RIGHT	2	
			5 #8	X		C		0-9	0-9	0				1				12			LEFT	2	
2B-14	12	24	3 #6		X	B		5-4	0-7	0	24-0		42#3	1	12			8			RIGHT	2	
3B-14			2 #5		X	D		8-0	3-6					1	12			8			LEFT	2	
4B-14			2 #8	X		D		0-5	0-5														
5B-14																							
RB-14																							
1B-15	16	28	5 #8		X	X	A	0-9	34-0	1-4	24-0		36#4	1				12			RIGHT	2	
			5 #8	X		C		0-9	0-9	0				1				12			LEFT	2	
2B-15	12	24	2 #7		X	B		9-10	9-10	0	24-0		42#3	1	12			8			RIGHT	2	
3B-15			2 #7		X	B		6-0	6-0	0				1	12			8			LEFT	2	
4B-15			2 #5		X	D		8-0	8-0														
5B-15			2 #8	X		D		0-5	0-5														
RB-15																							
1B-16	16	28	3#10		X	B		16-2	15-0	0	24-0		21#4							10	RIGHT	1	
			4#11	X		C		0	1-6	0										11	LEFT	1	
2B-16	24	28	4 #6		X	A		0-6	8-0	0	24-0		30#4	1		9	3			2	RIGHT	2	1 S-4
			2 #6		X	A		0-6	18-0	0				1		9	3			2	LEFT	2	
			4 #6		X	B		8-0	0-6	0													
			6 #9	X		C		0	0	0													
3B-16	24	32	2 #6		X	A		0-6	9-0	0	24-0		30#4	1		9	3			2	RIGHT	2	
			2 #6		X	A		0-6	18-0	0				1		9	3			2	LEFT	2	
			4 #6		X	B		8-0	0-6	0													
			7 #9	X		C		0	0	0													
4B-16	12	24	2 #7		X	B		9-10	9-10	0	24-0		26#3					13			RIGHT	2	
5B-16			2 #7		X	B		6-0	6-0	0								13			LEFT	2	
RB-16			2 #5		X	D		8-0	8-0														
			2 #8	X		D		0-5	0-5														



TYPICAL BEAM DETAIL

NO SCALE



A S-9 TYPICAL BEAM SECTION

NO SCALE

RECORD PRINTS

THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND WHICH THE ENGINEER CONSIDERS SIGNIFICANT

MASON & HANGER ENGINEERING INC.
ARCHITECT - ENGINEERS
LEXINGTON, KENTUCKY

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by
director - design and construction division
10-19-87
date

BEAM SCHEDULE

Sherman Carter Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • (606) 254-1351

JOB NO.	2046
DATE	10-19-87
DRAWN	DAH
CHECKED	JEB
FILE NO.	431.0

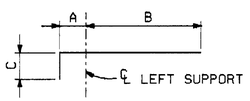
REVISIONS

Cab # 82 Slot B-1 Document # 004867

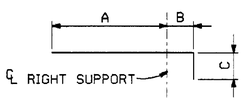
SHEET

S-9

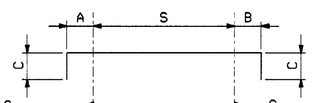
BEAM SCHEDULE



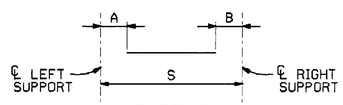
TYPE A



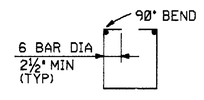
TYPE B



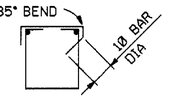
TYPE C



TYPE D



TYPE 1



TYPE 2

MARK	SIZE B IN	SIZE H IN	NO.& SIZE	BOT	TOP	BEND	TYPE	BAR TYPE DIMENSIONS A FT-IN	B FT-IN	C FT-IN	S FT-IN	SECTION S	STIRRUPS NO.& SIZE	SPACING FROM FACE OF SUPPORT 2'	4'	6'	8'	10'	12'	18'	END	TYPE	REMARKS
1B-17	12	24	2 #7		X		D	6-10	7-0		24-0		26#3					13			RIGHT	1	
			3#10		X	X	B	10-0	0	1-10								13			LEFT	1	
			2 #8	X			D	0-5	0-5														
2B-17	12	24	2 #7		X		D	6-10	7-0		24-0		42#3	1	12			8			RIGHT	2	
3B-17			2#11		X		B	10-0	8-10	0				1	12			8			LEFT	2	
4B-17			1#11		X		B	6-0	6-0	0													
5B-17			2 #8	X			D	0-5	0-5														
RB-17																							
1B-18	22	32	4 #7		X	X	C	0-6	0-6	1-2	15-6		42#3	1	12			8			RIGHT	1	1 S-16
			3 #8	X			D	0-2	0-2					1	12			8			LEFT	1	
2B-18	12	24	2 #7		X		D	6-10	7-0		24-0		26#3					13			RIGHT	1	
3B-18			2#10		X		B	10-0	8-10	0								13			LEFT	1	
4B-18			1#11		X		B	6-0	6-0	0													
5B-18			2 #8	X			D	0-5	0-5														
RB-18																							
1B-19	12	32	3#10		X		D	0	0		5-11		7 #3	1			3				RIGHT	1	1 S-16
			4#11	X			D	0	0					1			2				LEFT	1	
2B-19	12	24	2 #7		X		D	6-10	7-0		24-0		42#3	1	12			8			RIGHT	1	
3B-19			2#10		X		B	10-0	8-10	0				1	12			8			LEFT	1	
4B-19			1#11		X		B	6-0	6-0	0													
5B-19			2 #8	X			D	0-5	0-5														
RB-19																							
1B-20	16	28	3 #9		X		C	0-9	0-9	0	30-0		30#4	1					14		RIGHT	1	A S-16
			3#11	X			C	0-9	0-9	0				1					14		LEFT	1	
2B-20	12	24	2 #7		X		D	6-10	7-0		24-0		26#3					13			RIGHT	1	
3B-20			3#10		X	X	B	10-0	0	1-10								13			LEFT	1	
4B-20			2 #8	X			D	0-5	0-5														
5B-20																							
RB-20																							
1B-21	16	64	2 #9		X		B	22-0	0-9	0	30-0		30#4	1					14		RIGHT	1	A S-16
	OR		2 #9		X		B	10-0	0-9	0				1					14		LEFT	1	
	16	28	4#11	X			C	0-9	0-9	0													
2B-21	12	24	2 #6		X		D	7-0	4-0		30-0		50#4	1	13			11			RIGHT	2	
3B-21			4 #8		X	X	B	5-10	0-3	1-7				1	13			11			LEFT	2	
4B-21			3#10	X			D	0-5	0-5														
5B-21																							
RB-21																							
1B-22	16	34	2 #9		X		B	22-0	0-9	0	30-0		30#4	1					14		RIGHT	1	D S-16
			2 #9		X		B	10-0	0-9	0				1					14		LEFT	1	
			4#11	X			C	0-9	0-9	0													
2B-22	12	24	2 #6		X		B	21-2	0-8	0	30-0		34#4				3	14			RIGHT	1	
3B-22			2 #6		X		B	5-10	0-8	0							3	14			LEFT	1	
4B-22			3#10	X			D	0-5	0-5														
5B-22																							
RB-22																							
1B-23	16	28	3#10		X		B	17-0	0-9	0	30-0		27#4					14			RIGHT	1	
			4#11	X			C	1-6	0	0								13			LEFT	1	
2B-23	12	24	2 #6		X		D	7-0	4-0		30-0		50#4	1	13			11			RIGHT	1	
3B-23			3 #9		X	X	B	5-10	0-3	1-7				1	13			11			LEFT	1	
4B-23			3#10	X			D	0-5	0-5														
5B-23																							
RB-23																							
1B-24	24	28	5 #8	X			C	0-9	0-9	0	31-4		86#5		41	2					RIGHT	2	E S-19 SIM
2B-24			7#10	X			D	1-2	1-2						41	2					LEFT	2	
3B-24			4 #5		X	X	A	0-9	10-0	0													
4B-24			4 #5		X	X	B	10-0	0-9	0													
5B-24			2 #5		X		D	8-0	8-0														
PB-24																							

MARK	SIZE B IN	SIZE H IN	NO.& SIZE	BOT	TOP	BEND	TYPE	BAR TYPE DIMENSIONS A FT-IN	B FT-IN	C FT-IN	S FT-IN	SECTION S	STIRRUPS NO.& SIZE	SPACING FROM FACE OF SUPPORT 2'	4'	6'	8'	10'	12'	18'	END	TYPE	REMARKS
RB-24	24	32	2 #5		X		A	0-9	11-0	0	31-4		86#5		41	2					RIGHT	2	E S-19
			2 #5		X		C	0-9	0-9	0					41	2					LEFT	2	
			2 #5		X		B	10-0	0-9	0													
			7#10	X			D	1-2	1-2														
			6 #8	X			C	0-9	0-9	0													
1B-25	12	22	3 #5		X		C	0-5	0-5	0	21-1		27#3					13			RIGHT	1	
2B-25			3 #5	X			C	0-5	0-5	0								14			LEFT	1	
3B-25																							
4B-25																							
5B-25																							
PB-25																							
RB-25	12	22	3 #5		X		C	0-5	0-5	0	21-0		27#3					13			RIGHT	1	
			3 #5	X			C	0-5	0-5	0								14			LEFT	1	
1B-26	12	22	2 #5		X		C	0-5	0-5	0	11-4		14#3					7			RIGHT	1	
2B-26			2 #5	X			C	0-5	0-5	0								7			LEFT	1	
3B-26																							
4B-26																							
5B-26																							
PB-26																							
RB-26	12	22	2 #5		X		C	0-5	0-5	0	11-2		14#3					7			RIGHT	1	
			2 #5	X			C	0-5	0-5	0								7			LEFT	1	
2B-27	8	22	3 #5		X		C	0-5	0-5	0	10-3		12#3					6			RIGHT	1	
3B-27			3 #5	X			C	0-5	0-5	0								6			LEFT	1	
4B-27																							
5B-27																							
PB-27																							
2B-28																							
3B-28																							
4B-28																							
5B-28																							
PB-28																							
RB-27	8	22	3 #5		X		C	0-5	0-5	0	10-4		12#3					6			RIGHT	1	
RB-28			3 #5	X			C	0-5	0-5	0								6			LEFT	1	
2B-29	24	28	5#10		X	X	B	43-4	0-8	1-10	31-4		86#5		41	2					RIGHT	2	C S-3 SIM
3B-29			5 #6		X	X	B	15-0	0-6	1-0					41	2					LEFT	2	
			5 #8		X		A	12-0	12-0	0													
			3#10	X		X	B	32-10	0-5	1-10													
			4#10	X			D	2-0	2-0														
1B-29	24	28	5#10		X	X	C	0-8	0-8	1-10	31-4		86#5		41	2					RIGHT	2	C S-3 SIM
4B-29			5 #8		X	X	C	0-6	0-6	1-4					41	2					LEFT	2	
5B-29			3#10	X		X	C	0-8	0-8	1-10													
PB-29			4#10	X			D	2-0	2-0														
RB-29	24	32	8 #8		X	X	C	0-5	0-5	1-4	31-4		86#5		41	2					RIGHT	2	B S-19
			4 #8		X	X	C	0-8	0-8	1-4					41	2					LEFT	2	
			4 #9	X		X	C	0-7	0-7	1-7													
			5 #9	X			D	2-0	2-0														
2B-30	12	22	3 #5		X		C	0-7	0-7	0	21-7		25#3					13			RIGHT	2	J S-6
3B-30			2 #5	X			C	0-7	0-7	0								12			LEFT	2	
4B-30																							
5B-30																							
PB-30																							
RB-30	12	22	3 #5		X		C	0-7	0-7	0	21-6		25#3					13			RIGHT	2	
			2 #5	X			C	0-7	0-7	0								12			LEFT	2	
2B-31	12	24	2 #8		X		C	0	5-0	0	11'-6 7/8"		18#4					17			RIGHT	1	3 S-21
3B-31			2 #8	X			C	0	0	0													
2B-32	12	24	2 #8		X		C	0	5-0	0	8-0		8#3							4	RIGHT	1	3 S-21
3B-32			2 #8	X			C	0	0	0										4	LEFT	1	

MARK	SIZE B IN	SIZE H IN	NO.& SIZE	BOT	TOP	BEND	TYPE	BAR TYPE DIMENSIONS A FT-IN	B FT-IN	C FT-IN	S FT-IN	SECTION S	STIRRUPS NO.& SIZE	SPACING FROM FACE OF SUPPORT 2'	4'	6'	8'	10'	12'	18'	END	TYPE	REMARKS
2B-33	12	24	3#10		X		C	0-9	0-9	0	24-0		26#3					13			RIGHT	1	
3B-33			2 #8	X			C	0-6	0-6	0								13			LEFT	1	
2B-34	24	28	3 #6		X		A	0-9	14-0	0	24-0		42#4	1	12			8			RIGHT	2	
3B-34			2 #8	X			C	1-10	1-6	0					1	12		8			LEFT	2	
2B-35	12	24	2 #8		X		C	5-0	0	0	24-0		26#3					13			RIGHT	1	
3B-35			2 #8	X			C	0	0-9	0								13			LEFT	1	1 S-21
2B-36	12	24	2 #8		X		C	0	0	0	12-0		10#3							5	RIGHT	1	
3B-36			2 #8	X			C	0	0	0										5	LEFT	1	

MASON & HANGER ENGINEERING INC.
ARCHITECT - ENGINEERS
LEXINGTON, KENTUCKY

RECORD PRINTS
THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND WHICH THE ENGINEER CONSIDERS SIGNIFICANT

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by
date 10-19-87

BEAM SCHEDULE

Sherman Carter Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • (606) 254-1351

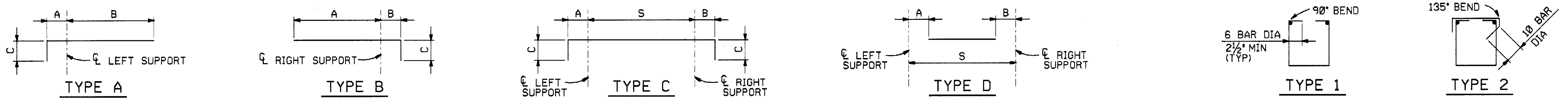
JOB NO.	2046
DATE	10-19-87
DRAWN	DAH
CHECKED	JEB
FILE NO.	431.0

REVISIONS

Cab.# 82 Slot B-1 Document# 0048668

SHEET
S-10

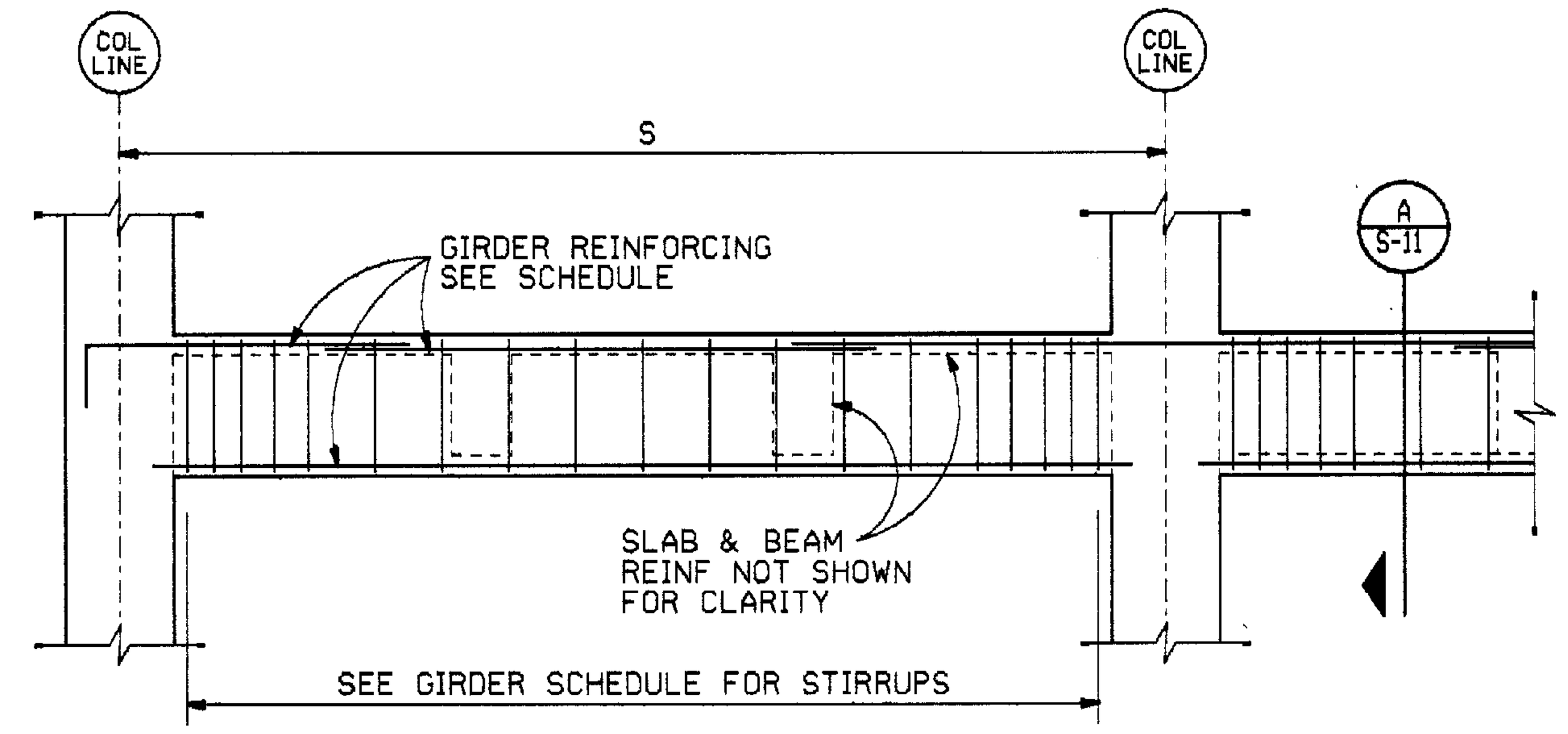
GIRDER SCHEDULE



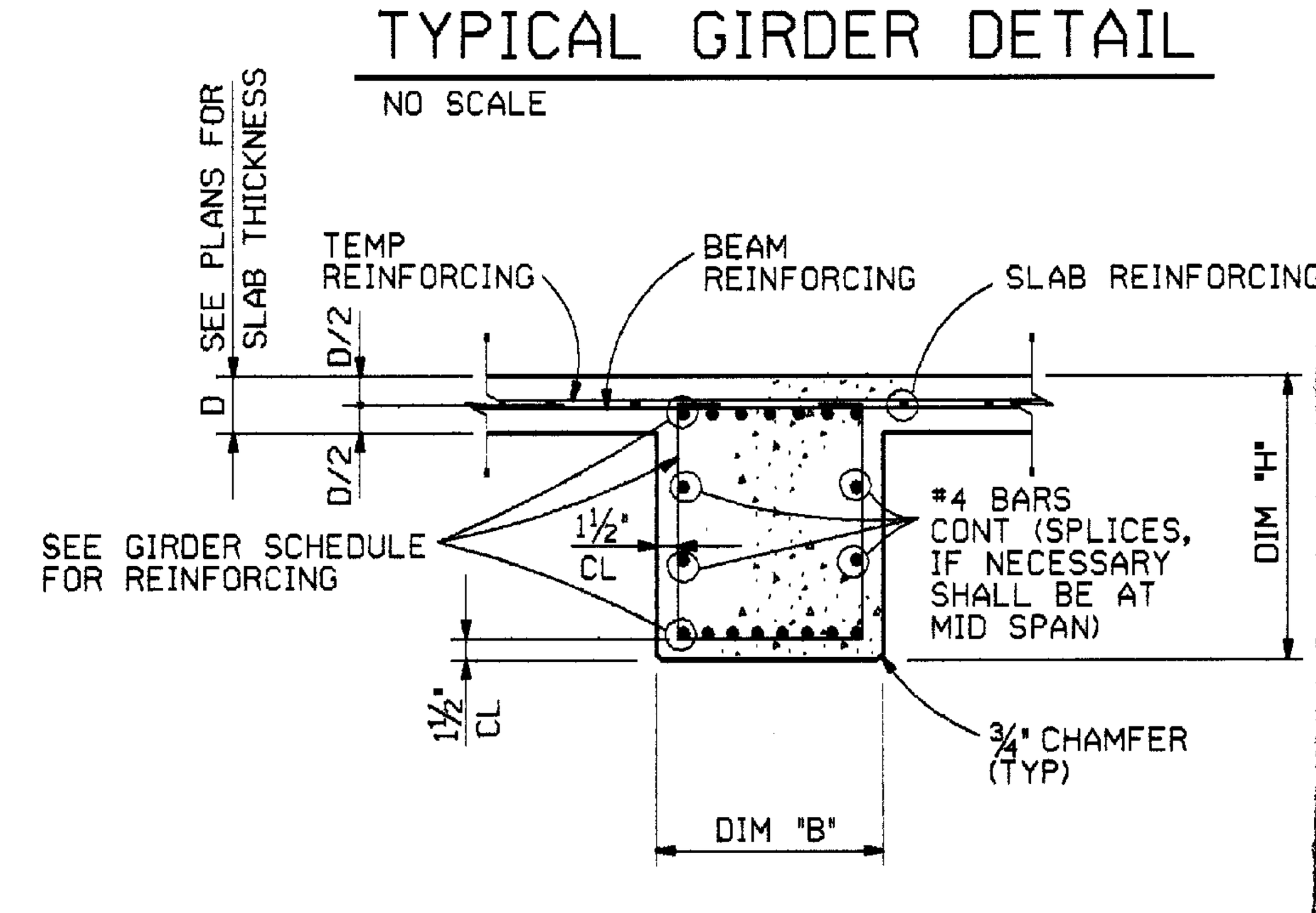
MARK	SIZE B (IN)	SIZE H (IN)	NO.& SIZE	BOT	TOP	BEND	TYPE	A (FT-IN)	B (FT-IN)	C (FT-IN)	S (FT-IN)	STIRRUPS NO.& SIZE	2"	4"	6"	8"	10"	12"	18"	END	TYPE	REMARKS
2G-1	22	28	5 #8		X	X	B	8-4	0-8	1-4	27-0	54#5	1	21				5		RIGHT	2	F/S-22
3G-1			2 #8		X	X	B	22-6	0-8	1-4			1	21				5		LEFT	2	
4G-1			3 #8	X		X	B	28-6	0-7	1-4												
5G-1			4 #8	X			D	4-0	3-9													
RG-1			8 #9		X		A	9-7	9-7	0												
2G-2	24	28	3 #6		X	X	A	0	17-0	1-0	25-4	52#5	1	21				4		RIGHT	2	2/S-20
3G-2			6 #6		X	X	A	0	9-0	1-0			1	21				4		LEFT	2	
4G-2			3 #8	X		X	A	0	26-10	1-4												
5G-2																						
RG-2																						
1G-1	22	28	5 #8		X	X	B	8-4	0-8	1-4	29-0	56#5	1	21				6		RIGHT	2	* SEE
2G-3		*	2 #8		X	X	B	22-6	0-8	1-4			1	21				6		LEFT	2	C/S-2
3G-3			3 #8	X		X	B	30-6	0-7	1-4												FOR 1G-1
4G-3			4 #8	X			D	4-0	3-9													
5G-3			8 #9		X		A	9-7	9-7	0												
RG-3																						
1G-4	22	28	6 #8		X	X	B	27-0	0-9	1-4	20-0	34#4	1	9	6			1		RIGHT	1	
			4 #8	X			C	1-6	0-6	0			1	9	6			1		LEFT	1	
1G-2	22	28	2 #8		X		A	5-6	12-6	0	20-0	30#3	1		9	3		2		RIGHT	1	** SEE
1G-7		**	2 #9		X		A	5-6	5-9	0			1		9	3		2		LEFT	1	C/S-2 SIM
2G-4			3 #8	X			C	1-6	1-6	0												FOR 1G-2
3G-4																						
4G-4																						
5G-4																						
RG-4																						
1G-5	22	28	5 #8		X	X	A	0-9	15-0	1-4	20-0	34#4	1	9	6			1		RIGHT	1	
1G-3			4 #8	X			C	0-6	0-10	0			1	9	6			1		LEFT	1	
2G-5	22	28	2 #8		X	X	A	0-8	19-3	1-4	25-4	38#3	1	8	8			2		RIGHT	2	A/S-3
			3 #8		X	X	A	0-8	6-3	1-4			1	8	8			2		LEFT	2	
			3 #8	X		X	A	0-8	21-6	1-4												
3G-5	22	28	2 #8		X	X	A	6-1	19-3	1-4	20-0	38#3	1	8	8			2		RIGHT	2	
4G-5			3 #8		X	X	A	6-1	6-3	1-4			1	8	8			2		LEFT	2	
5G-5			3 #8	X			C	6-1	1-6	0		30#3	30							CANT	2	
RG-5	22	28	2 #8		X	X	A	6-1	19-3	1-4	20-0	38#3	1	8	8			2		RIGHT	2	D/S-19
	OR		3 #8		X	X	A	6-1	6-3	1-4			1	8	8			2		LEFT	2	
	22	36	3 #8	X			C	6-1	1-6	0		30#3	30							CANT	2	
1G-6	22	28	6 #9		X	X	B	8-4	0-8	1-4	29-0	48#4	1	9	8			6		RIGHT	1	C/S-3
2G-6			2 #9		X	X	B	22-6	0-8	1-4			1	9	8			6		LEFT	1	
2G-8			4 #8	X		X	B	30-6	0-7	1-4												
			4 #8	X			D	4-0	3-9													
			8 #8		X		A	9-7	8-7	0												
			4 #8		X		A	9-7	8-7	0												
3G-6	22	28	5 #8		X	X	B	8-4	0-8	1-4	29-0	48#4	1	9	8			6		RIGHT	1	
4G-6			2 #8		X	X	B	22-6	0-8	1-4			1	9	8			6		LEFT	1	
5G-6			3 #8	X		X	B	30-6	0-7	1-4												
RG-6			4 #8	X			D	4-0	3-9													
			7 #9		X		A	9-7	8-7	0												
2G-7	22	30	5 #9		X	X	A	0-7	19-3	1-4	20-0	38#3	1	8	8			2		RIGHT	2	2/S-21
3G-16			4 #8	X			C	0-6	0-6	0			1	8	8			2		LEFT	2	
3G-7	22	28	2 #8		X	X	A	6-1	19-3	1-4	20-0	38#3	1	8	8			2		RIGHT	1	
4G-7			3 #8		X	X	A	6-1	6-3	1-4			1	8	8			2		LEFT	1	
5G-7			3 #8	X			C	6-1	1-6	0		30#3	30							CANT	2	
RG-7	22	28	2 #8		X	X	A	6-1	19-3	1-4	20-0	38#3	1	8	8			2		RIGHT	1	D/S-19
	OR		3 #8		X	X	A	6-1	6-3	1-4			1	8	8			2		LEFT	1	
	22	36	3 #8	X			C	6-1	1-6	0		30#3	30							CANT	2	
1G-8	24	66	8 #8		X	X	B	16-0	0-6	1-4	29-0	48#4	1	9	8			6		RIGHT	1	1/S-16
	OR		8 #8		X		A	10-0	15-0	0			1	9	8			6		LEFT	1	
	24	42	8#10	X		X	B	30-6	0-7	1-4												

MARK	SIZE B (IN)	SIZE H (IN)	NO.& SIZE	BOT	TOP	BEND	TYPE	A (FT-IN)	B (FT-IN)	C (FT-IN)	S (FT-IN)	STIRRUPS NO.& SIZE	2"	4"	6"	8"	10"	12"	18"	END	TYPE	REMARKS
3G-8	22	28	8 #9		X		A	10-7	9-7	0	29-0	48#4	1	9	8			6		RIGHT	1	
4G-8			6 #8		X	X	B	8-4	0-8	1-4			1	9	8			6		LEFT	1	
5G-8			2 #8		X	X	B	22-6	0-8	1-4												
RG-8			3 #8	X		X	B	30-6	0-7	1-4												
			4 #8	X			D	4-0	3-9													
1G-9	24	30	2 #8		X		A	5-6	12-6	0	20-0	30#3	1		9	3		2		RIGHT	1	
2G-9			2 #9		X		A	5-6	5-9	0			1		9	3		2		LEFT	1	
3G-9			4 #8	X			C	1-6	1-6	0												
4G-9																						
5G-9																						
RG-9	24	32	2 #9		X		D	4-0	8-0		20-0	30#3	1		9	3		2		RIGHT	1	
			8 #9		X		A	12-6	6-0	0			1		9	3		2		LEFT	1	
			5 #8	X			C	1-6	1-6	0												
2G-10	24	28	3 #8	X			A	6-7	21-6	0	20-0	38#3	1	8	8			2		RIGHT	2	1/S-21
			5 #9		X	X	A	6-7	8-0	1-7			1	8	8			2		LEFT	2	
			2 #8		X	X	A	6-7	16-6	1-7		30#3	30							CANT	2	
3G-10	24	32	3 #8	X			A	6-7	21-6	0	20-0	38#3	1	8	8			2		RIGHT	2	1/S-21
			5 #9		X	X	A	6-7	8-0	1-7			1	8	8			2		LEFT	2	
			2 #8		X	X	A	6-7	16-6	1-7		30#3	30							CANT	2	
1G-10	24	28	2 #8		X	X	A	0-6	19-3	1-4	20-0	38#3	1	8	8			2		RIGHT	1	
4G-10			3 #8		X	X	A	0-6	6-3	1-4			1	8	8			2		LEFT	1	
5G-10			3 #8	X		X	A	0-7	21-6	1-4												
RG-10	24	28	5 #8		X	X	A	0-8	8-4	1-4	20-0	38#3	1	8	8			2		RIGHT	1	
PG-9			2 #8		X	X	A	0-8	10-6	1-4			1	8	8			2		LEFT	1	
PG-10			4 #8	X		X	A	0-7	21-6	1-4												
PG-14																						
1G-11	22	24	4 #9		X	X	A	4-8	8-0	1-7	32-11⅞	56#4	1	10	10			7		RIGHT	2	
2G-11			4 #9		X	X	B	8-0	0-6	1-7			1	10	10			7		LEFT	2	
3G-11			2 #6		X		D	6-0	6-0			21#4	21							CANT	2	
4G-11			8 #9	X		X	C	4-8	0	0												
5G-11																						
PG-11																						
RG-11	24	28	4 #7		X	X	B	9-0	0-7	1-4	32-11⅞	56#4	1	10	10			7		RIGHT	2	
RG-12			4 #7		X	X	A	4-8	9-0	1-4			1	10	10			7		LEFT	2	
			2 #7		X		D	7-6	7-6			21#4	21							CANT	2	
			8#10	X			C	4-6	0-7	0												
1G-12	22	24	4 #8		X	X	A	4-8	8-0	1-4	32-11⅞	56#4	1	10	10			7		RIGHT	2	
2G-12			4 #8		X	X	B	8-0	0-6	1-4			1	10	10			7		LEFT	2	
3G-12			2 #6		X		D	6-0	6-0			21#4	21							CANT	2	
4G-12			7#10	X		X	C	4-8	0	0												
5G-12																						
PG-12																						
1G-13	16	26	3 #8		X	X	B	11-0	0-5	1-4	9-6	20#4	1			9				RIGHT	2	
			3 #8	X		X	B	11-0	0-5	1-4			1			9				LEFT	2	
2G-13	22	28	6 #8		X	X	B	8-4	0-8	1-4	29-0	99#5	40			9				RIGHT	2	
3G-13			2 #8		X	X	B	22-6	0-8	1-4			40			10				LEFT	2	
4G-13			3 #8	X		X	B	30-6	0-7	1-4												
5G-13			4 #8	X			D	4-0	3-9													
RG-13			8 #9		X		A	9-7	9-7	0												
2G-14	24	30	3 #8		X		A	5-6	12-6	0	20-0	53#5		27						RIGHT	2	
3G-14			3 #9		X		A	5-6	5-9	0				26						LEFT	2	
4G-14			3#10	X			C	1-6	0-9	0												
5G-14			3#10	X			D	2-0	2-0													
RG-14	24	32	3 #9		X		A	5-6	5-9	0	20-0	53#5		27						RIGHT	2	
			3 #8		X		A	5-6	12-6	0				26						LEFT	2	
			3 #9	X			C	1-6	0-9	0												
			5 #9	X			D	2-0	2-0													
2G-15	24	28	4 #7		X	X	A	3-9	19-3	1-4	20-0	30#3	1		9	3		2		RIGHT	2	
3G-15			4 #8	X			A	3-9	21-6	0			1		9	3		2		LEFT	2	
4G-15																						
5G-15																						
RG-15																						
PG-15																						

MARK	SIZE B (IN)	SIZE H (IN)	NO.& SIZE	BOT	TOP	BEND	TYPE	A (FT-IN)	B (FT-IN)	C (FT-IN)	S (FT-IN)	STIRRUPS NO.& SIZE	2"	4"	6"	8"	10"	12"	18"	END	TYPE	REMARKS
2G-16	22	30	5 #9		X		A	5-0	11-0	0	20-0	38#4	1	8	8			2		RIGHT	2	4/S-21
3G-17			4 #8	X			C	1-6	1-6	0			1	8	8			2		LEFT	2	
			2 #8		X		D	9-0	3-6													
2G-17	22	28	6 #9		X	X	A	0-9	8-0	1-7	20-0	38#4	1	8	8			2		RIGHT	2	2/S-4
3G-18			4 #8	X		X	A	0-9	21-6	1-4			1	8	8			2		LEFT	2	
			2 #8		X		D	6-0	3-0													
2G-18	22	26	4 #5		X	X	A	0	9-0	1-0	33-3	38#4	1		9			9		RIGHT	2	2/S-4 SIM
			2 #5		X		D	7-0	7-0				1		9			9		LEFT	2	
			4 #5		X	X	B	9-0	0	1-0												
			6 #9	X			C	0	0	0												
2G-19	22	26	4 #5		X	X	A	0	9-0	1-0	27-8½	38#4	1		9			9		RIGHT	2	2/S-4 SIM
			2 #5		X		D	7-0	7-0				1		9			9		LEFT	2	
			4 #5		X	X	B	9-0	0	1-0												
			6 #9	X			C	0	0	0												
3G-19	24	30	4 #6		X	X	A	0	9-0	1-0	33-3	38#4	1		9			9		RIGHT	2	2/S-4
			2 #6		X		D	7-0	7-0				1		9			9		LEFT	2	
			4 #6		X	X	B	9-0	0	1-0												
			8 #9	X			C	0	0	0												
3G-20	24	30	4 #6		X	X	A	0	9-0	1-0	27-8½	38#4	1		9			9		RIGHT	2	1/S-21
			2 #6		X		D	7-0	7-0				1		9			9		LEFT	2	
			4 #6		X	X	B	9-0	0	1-0												
			8 #9	X			C	0	0	0												



TYPICAL GIRDER DETAIL
NO SCALE



TYPICAL GIRDER SECTION
A/S-11 NO SCALE

RECORD PRINTS

MASON & HANGER ENGINEERING INC.
ARCHITECT - ENGINEERS
LEXINGTON, KENTUCKY

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
10-19-87

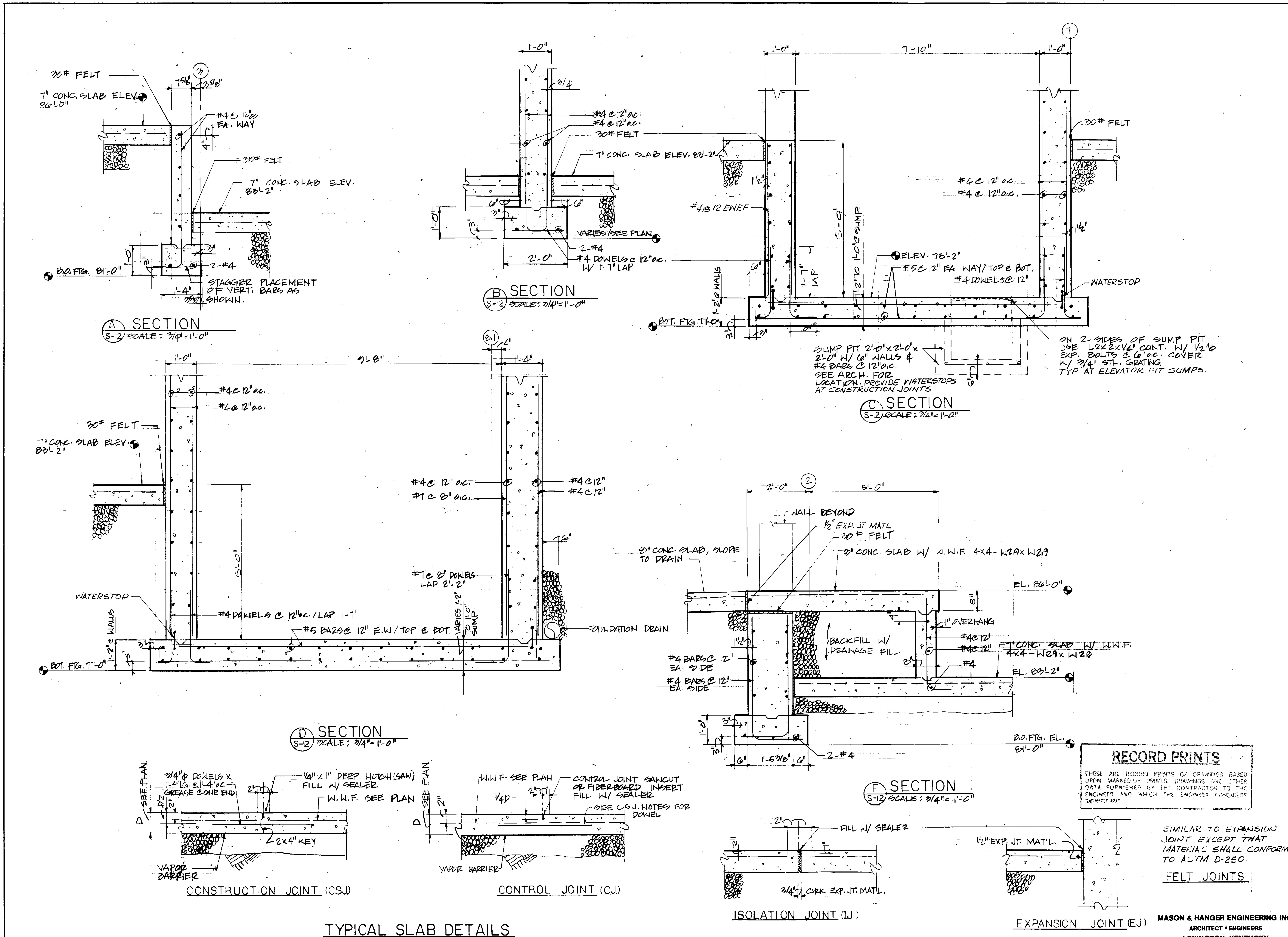
GIRDER SCHEDULE

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE

JOB NO.	2046
DATE	10-19-87
DRAWN	DAH
CHECKED	JEB
FILE NO.	431.0

REVISIONS

SHEET
S-11



RECORD PRINTS

THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND WHICH THE ENGINEER CONSIDERS RELIABLE.

MASON & HANGER ENGINEERING INC.
ARCHITECT • ENGINEERS
LEXINGTON, KENTUCKY

ROBOTICS FACILITY

LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved by [signature] 10-19-82
director - design and construction division

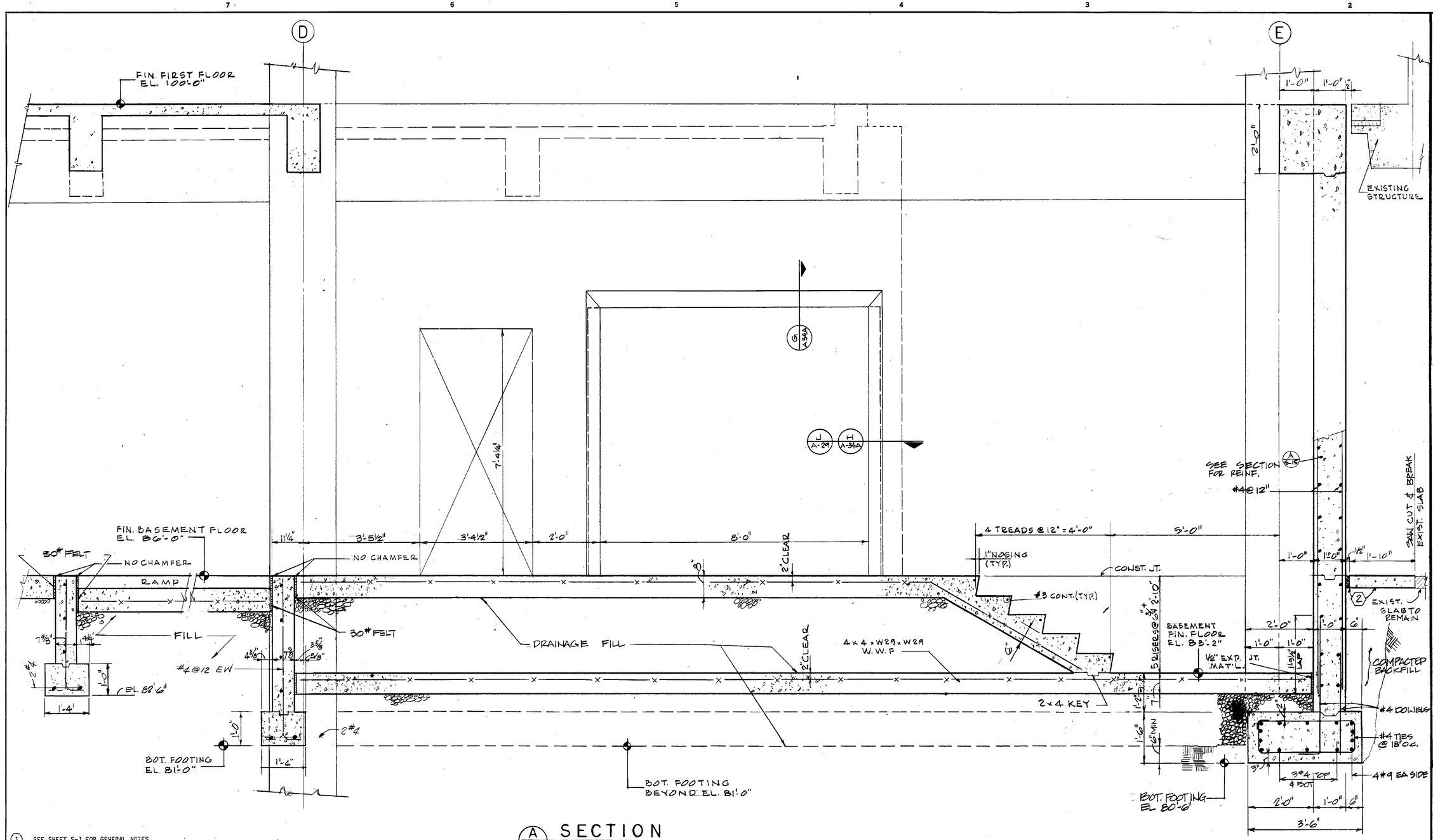
FOUNDATION DETAILS

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE

JOB NO.	2046
DATE	10-19-81
DRAWN	M.A.A.
CHECKED	A.L.P.
FILE NO.	431.0

REVISIONS

SHEET
S-12



A SECTION
S-13 SCALE: 3/4"=1'-0"

1. SEE SHEET S-1 FOR GENERAL NOTES.
2. AT EXISTING MECHANICAL ROOM SAW CUT AND REMOVE EXISTING SLAB AS INDICATED. CAREFULLY EXCAVATE FOR THE ROBOTICS WALL CONSTRUCTION. AFTER THE ROBOTICS WALL HAS BEEN POURED AND CURED, PLACE COMPACTED BACKFILL AND REPLACEMENT SLAB WITH ½ INCH EXPANSION JOINT MATERIAL AND ~~ONE INCH DEEP~~ SEALER AT THE ROBOTICS WALL.

RECORD PRINTS

THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND WHICH THE ENGINEER CONSIDERS SIGNIFICANT

MASON & HANGER ENGINEERING INC.
ARCHITECT • ENGINEERS
LEXINGTON, KENTUCKY

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by
director - design and construction division
date 10-19-87

FOUNDATION DETAILS

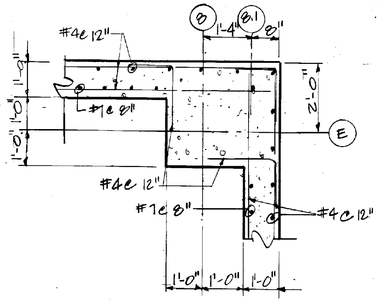
Sherman Carter Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1000 • 300 WEST MAIN STREET • LEXINGTON, KY 40507 • 606/254-1551

JOB NO 2046
DATE 10-19-87
DRAWN V.T.J
CHECKED A.L.P.
FILE NO. 431.0

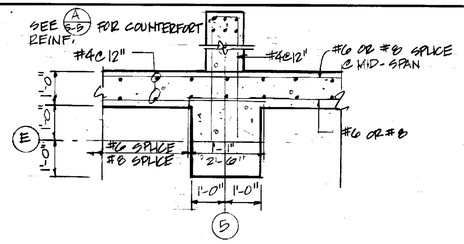
REVISIONS

Cab # K2 Shel D-1 Document # 001871

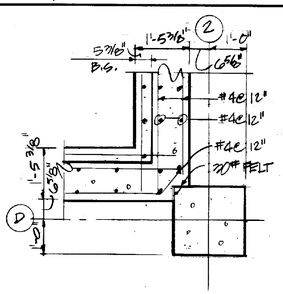
SHEET
S-13



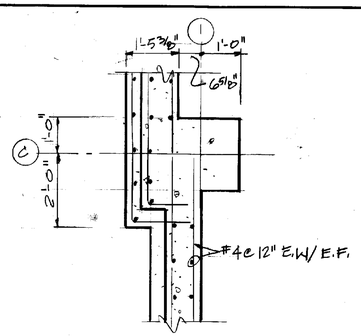
1 DETAIL
S-14 SCALE: 1/2"=1'-0"



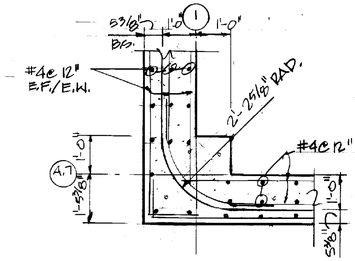
2 DETAIL
S-14 SCALE: 1/2"=1'-0"



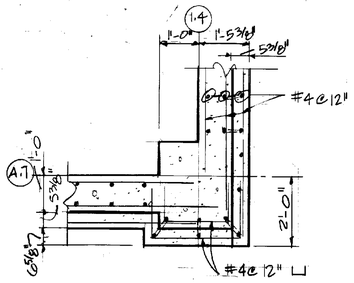
3 DETAIL
S-4 SCALE: 1/2"=1'-0"



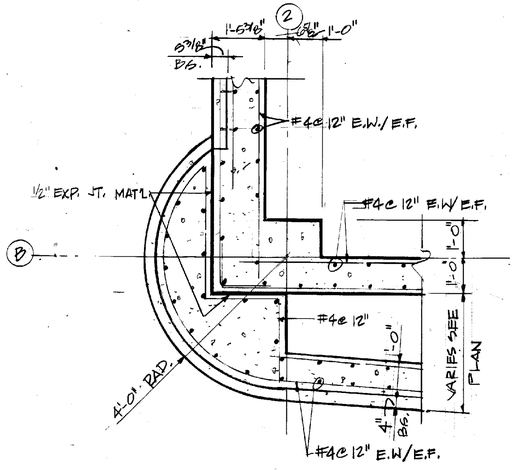
4 DETAIL
S-14 SCALE: 1/2"=1'-0"



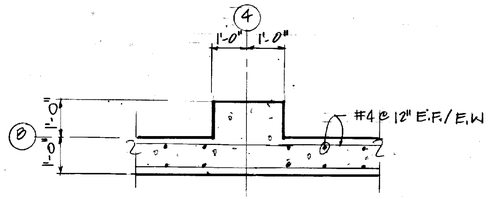
5 DETAIL
S-14 SCALE: 1/2"=1'-0"



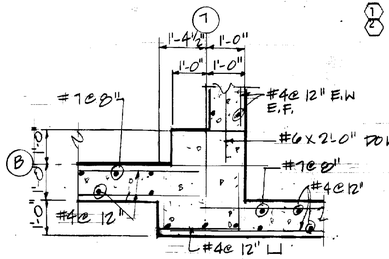
6 DETAIL
S-14 SCALE: 1/2"=1'-0"



7 DETAIL
S-14 SCALE: 1/2"=1'-0"



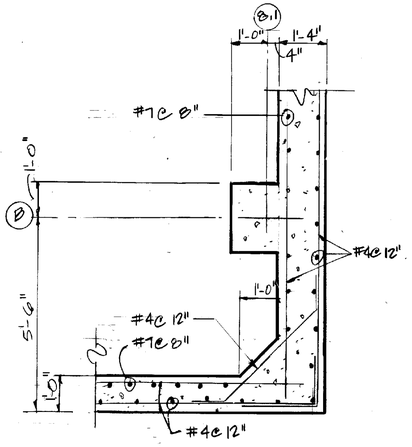
8 DETAIL
S-14 SCALE: 1/2"=1'-0"



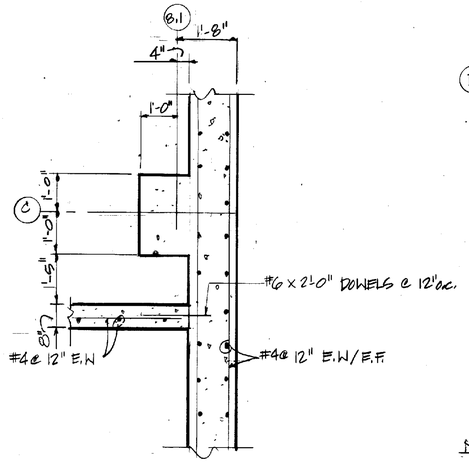
9 DETAIL
S-14 SCALE: 1/2"=1'-0"

S-14

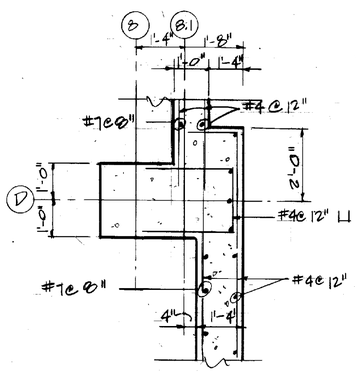
1 SEE SHEET S-1 FOR GENERAL NOTES
2 BEARING PLATE 1/2 X 6 WITH 5/8" X 8 BENT ANCHORS SPACED AT 1'-6" MAX. CENTERS. PLATES ARE CONTINUOUS AROUND THE HOISTWAY EXCEPT WHERE BEARING PLATES ARE PROVIDED BY THE ELEVATOR CONTRACTOR AND WHERE INTERRUPTED BY COLUMNS.



10 DETAIL
S-14 SCALE: 1/2"=1'-0"

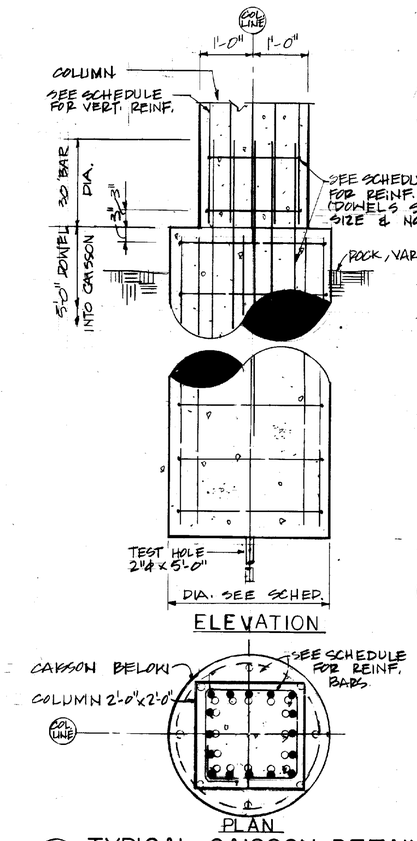


11 DETAIL
S-14 SCALE: 1/2"=1'-0"

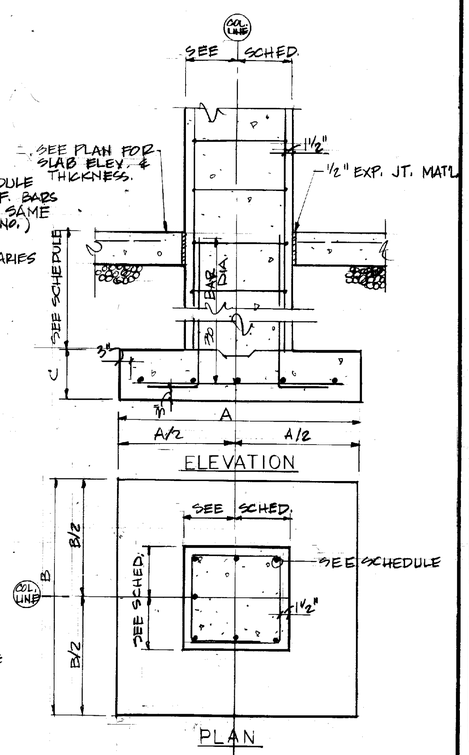


12 DETAIL
S-14 SCALE: 1/2"=1'-0"

NOTE:
SEE COLUMN SCHEDULE FOR COLUMN REINF. NOT SHOWN IN DETAILS 1 THRU 12.



13 TYPICAL CAISSON DETAIL
S-14 SCALE: 3/4"=1'-0"



14 TYPICAL PIER & FOOTING
S-14 SCALE: 3/4"=1'-0"

RECORD PRINTS
THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND WHICH THE ENGINEER CONSIDERS SIGNIFICANT

MASON & HANGER ENGINEERING INC.
ARCHITECT • ENGINEERS
LEXINGTON, KENTUCKY

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

FOUNDATION DETAILS

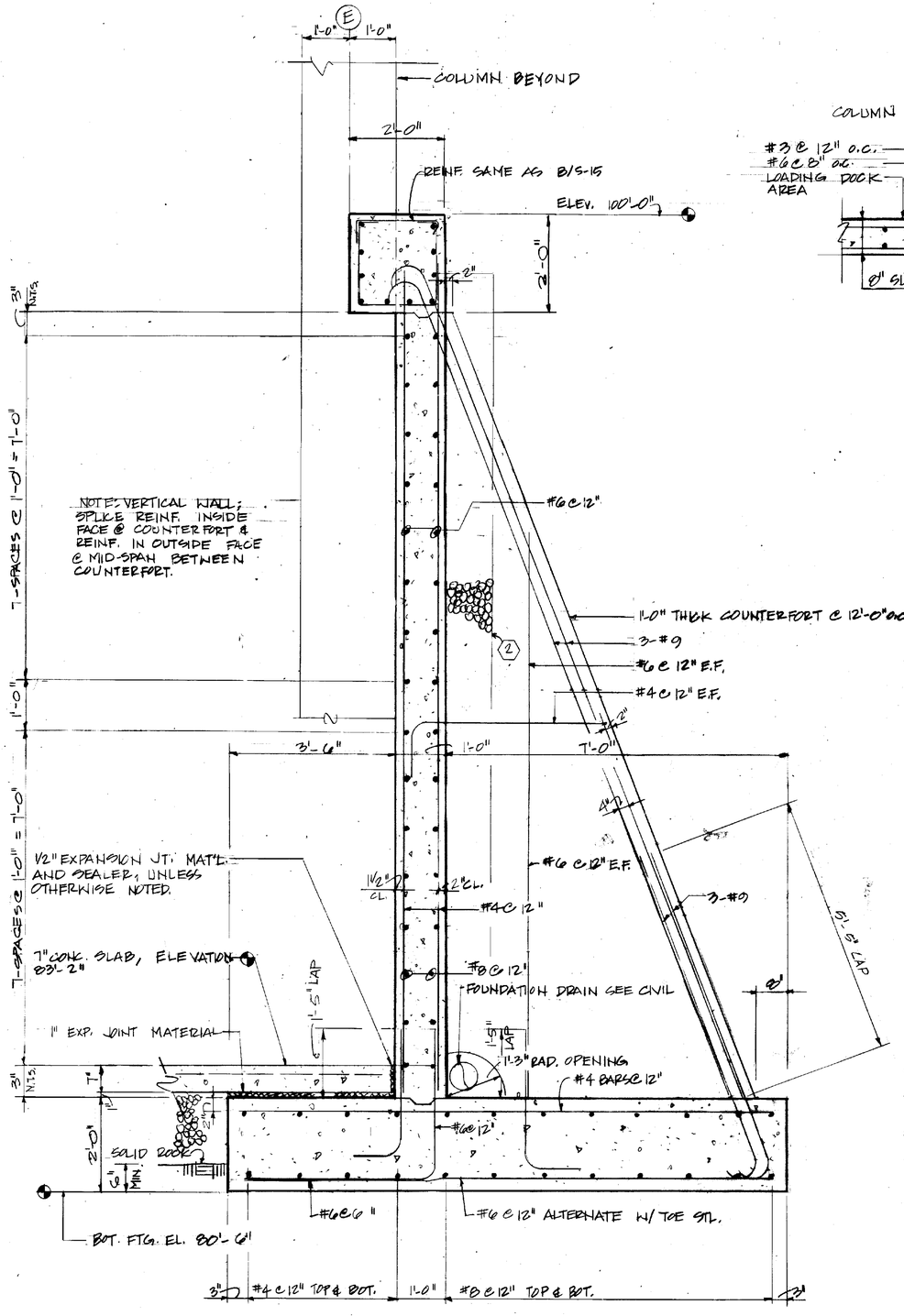
Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1800 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-1751

JOB NO. 2046
DATE 10-19-87
DRAWN M.A.A.
CHECKED PFH
FILE NO. 431.0

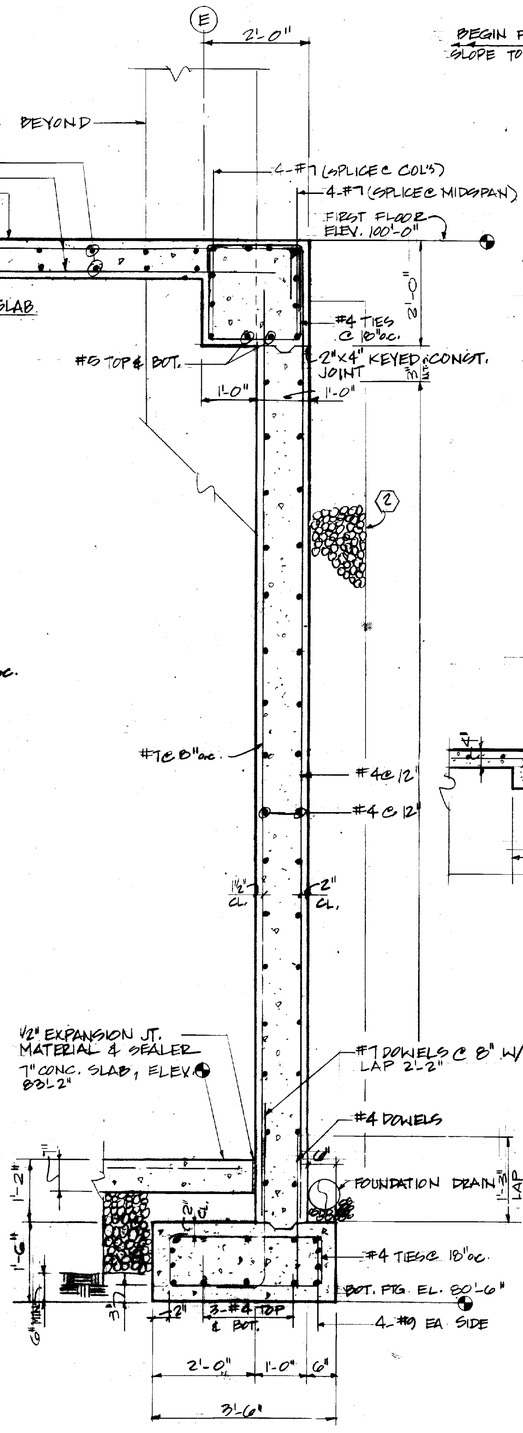
REVISIONS

Calc # Sht 82 Document # 004872 B-1

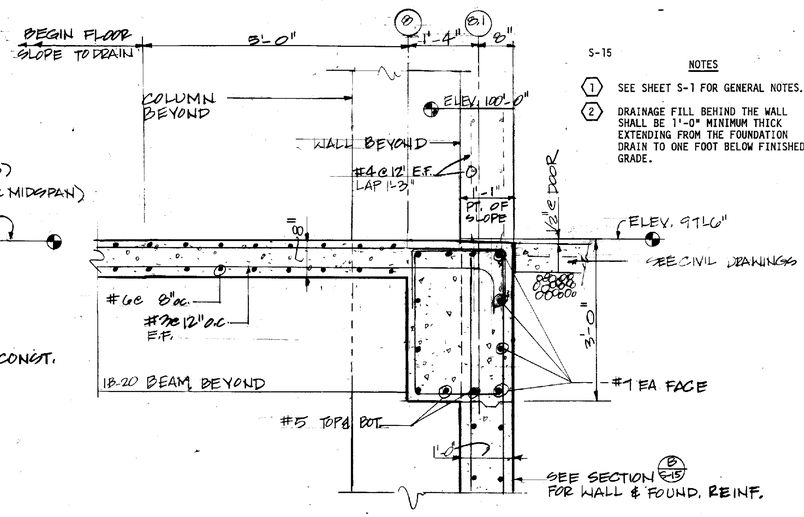
SHEET
S-14



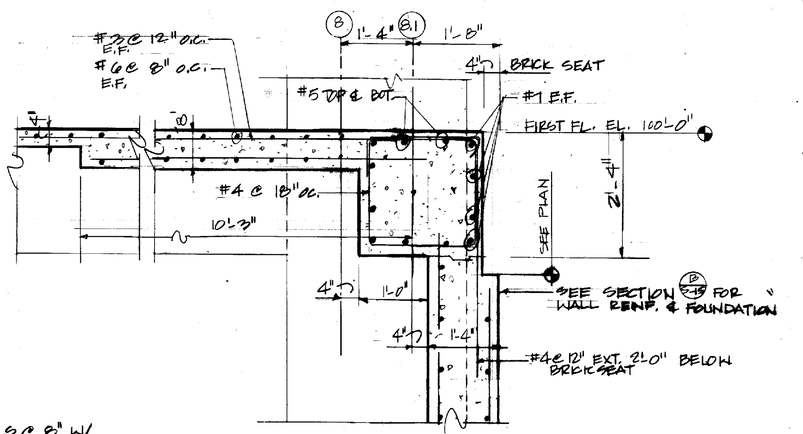
A SECTION
S-15 SCALE: 3/4"=1'-0"



B SECTION
S-15 SCALE: 3/4"=1'-0"

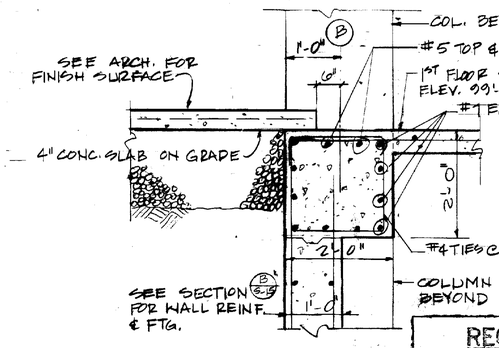


C SECTION
S-15 SCALE: 3/4"=1'-0"



D SECTION
S-15 SCALE: 3/4"=1'-0"

B SECTION
S-15 SCALE: 3/4"=1'-0"



E SECTION
S-15 SCALE: 3/4"=1'-0"

RECORD PRINTS

THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND WHICH THE ENGINEER CONSIDERS SIGNIFICANT

MASON & HANGER ENGINEERING INC.
ARCHITECT • ENGINEERS
LEXINGTON, KENTUCKY

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

FOUNDATION DETAILS

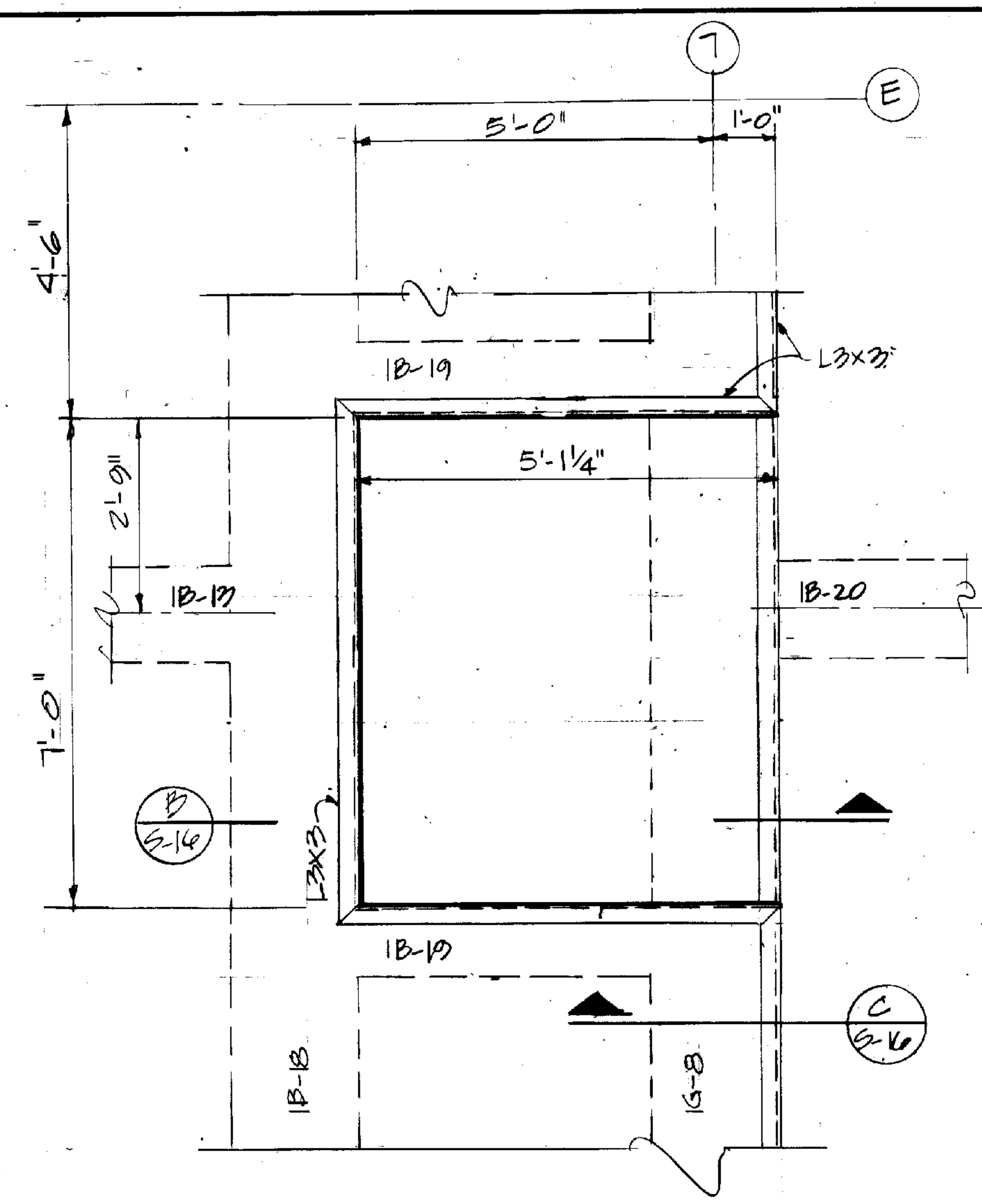
Sherman Carter Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1000 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-4701

JOB NO 2046
DATE 10-12-81
DRAWN M.A.A.
CHECKED A.L.P/PFH
FILE NO. 4310

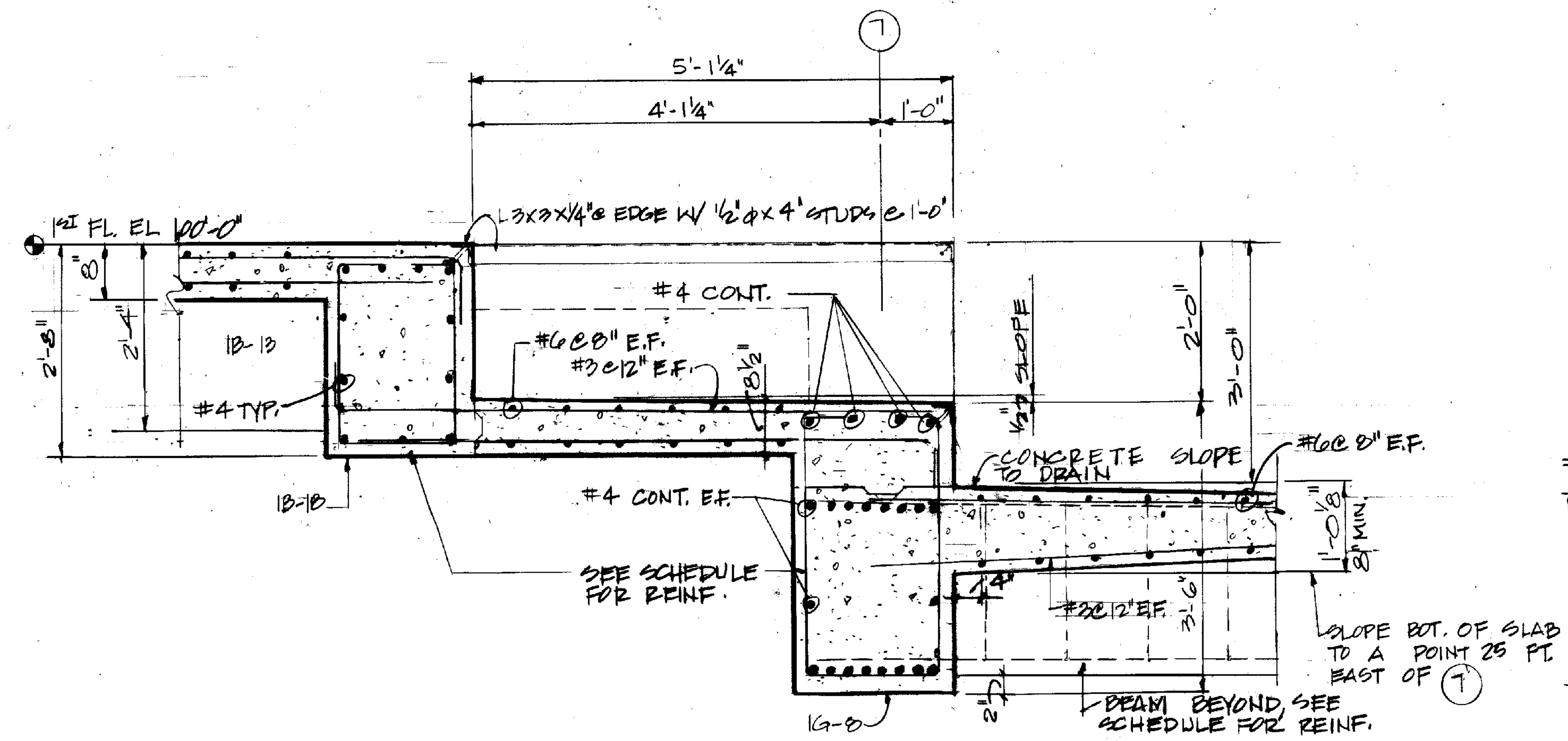
REVISIONS

Cab # Shlf Document # 82 B-1 001873

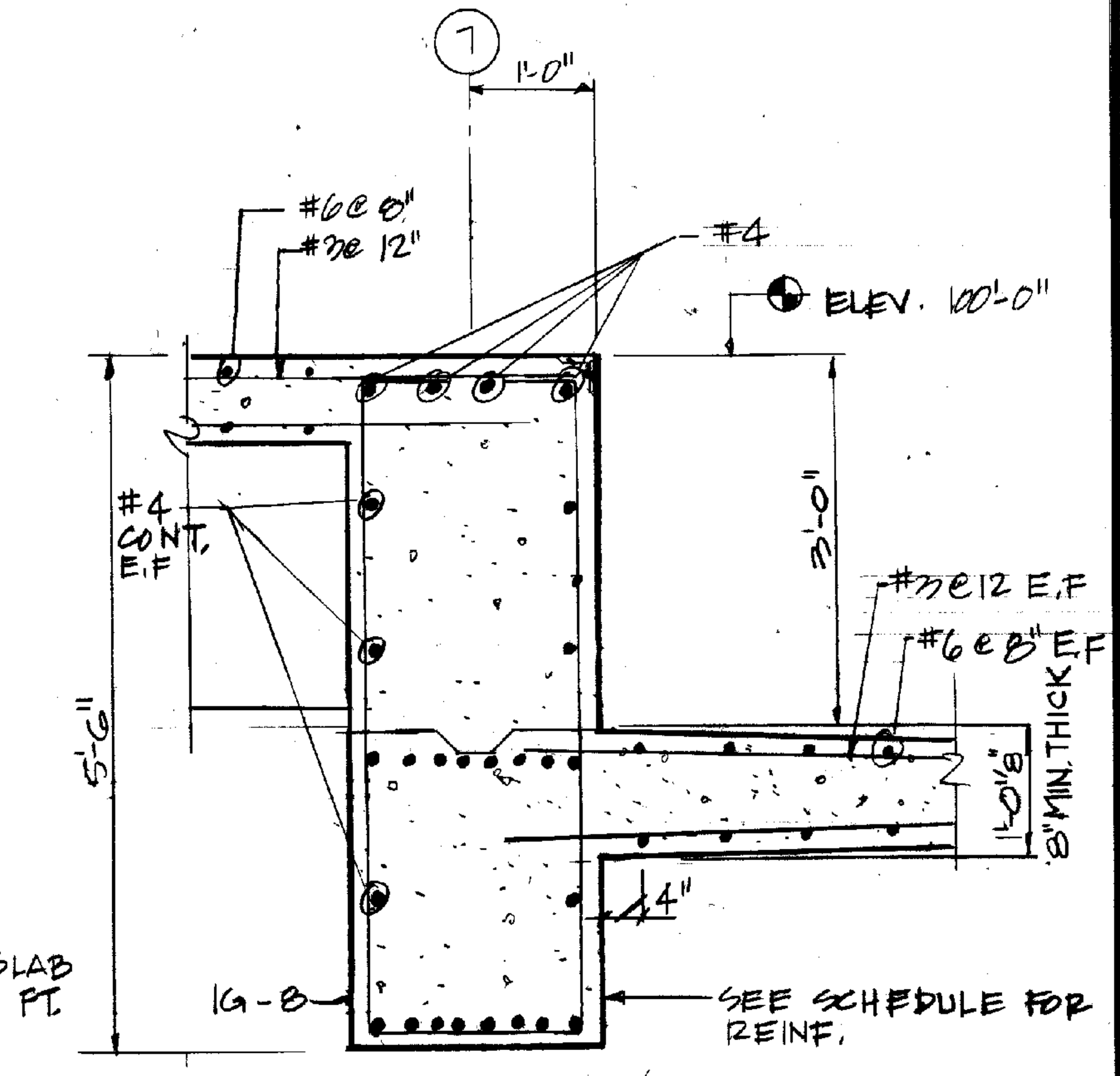
SHEET
S-15



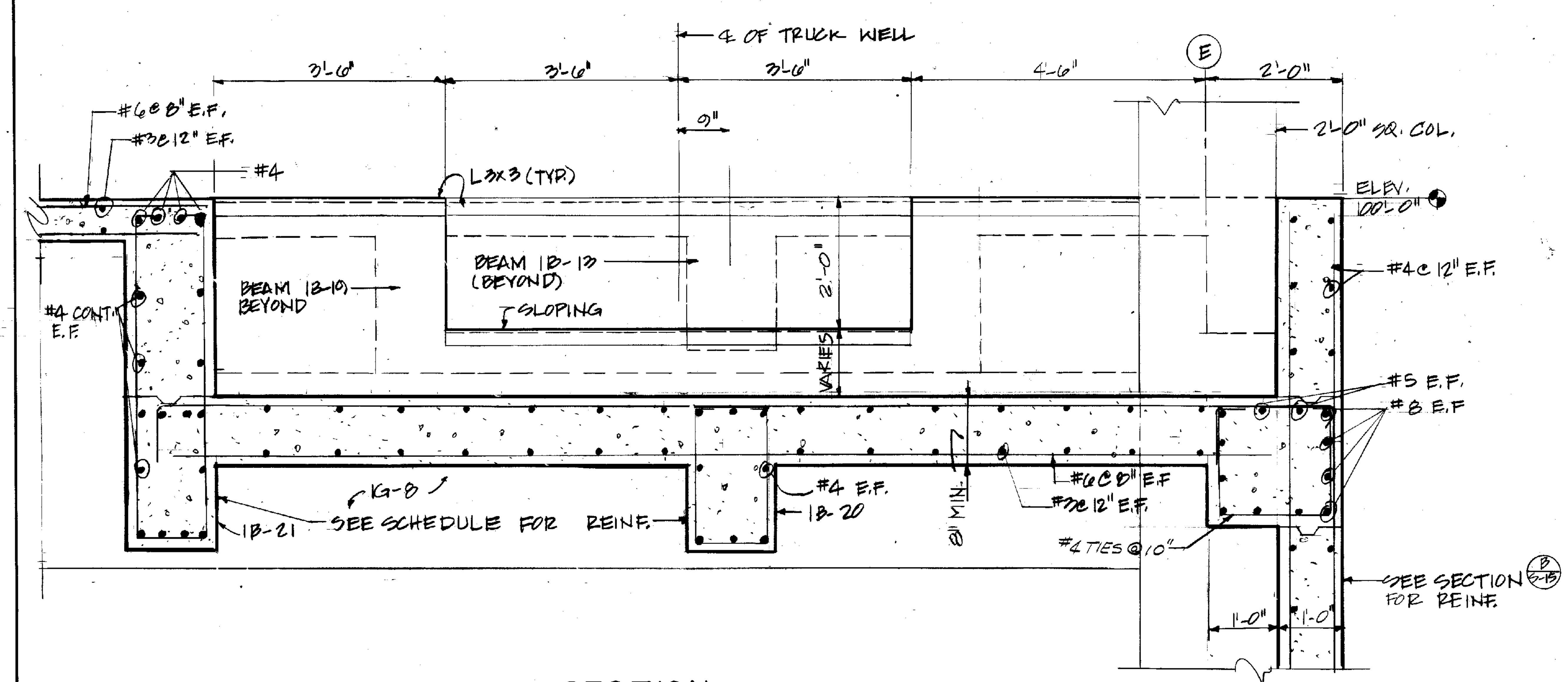
1 / S-16 LOADING DOCK PLAN
SCALE: 1/2"=1'-0"



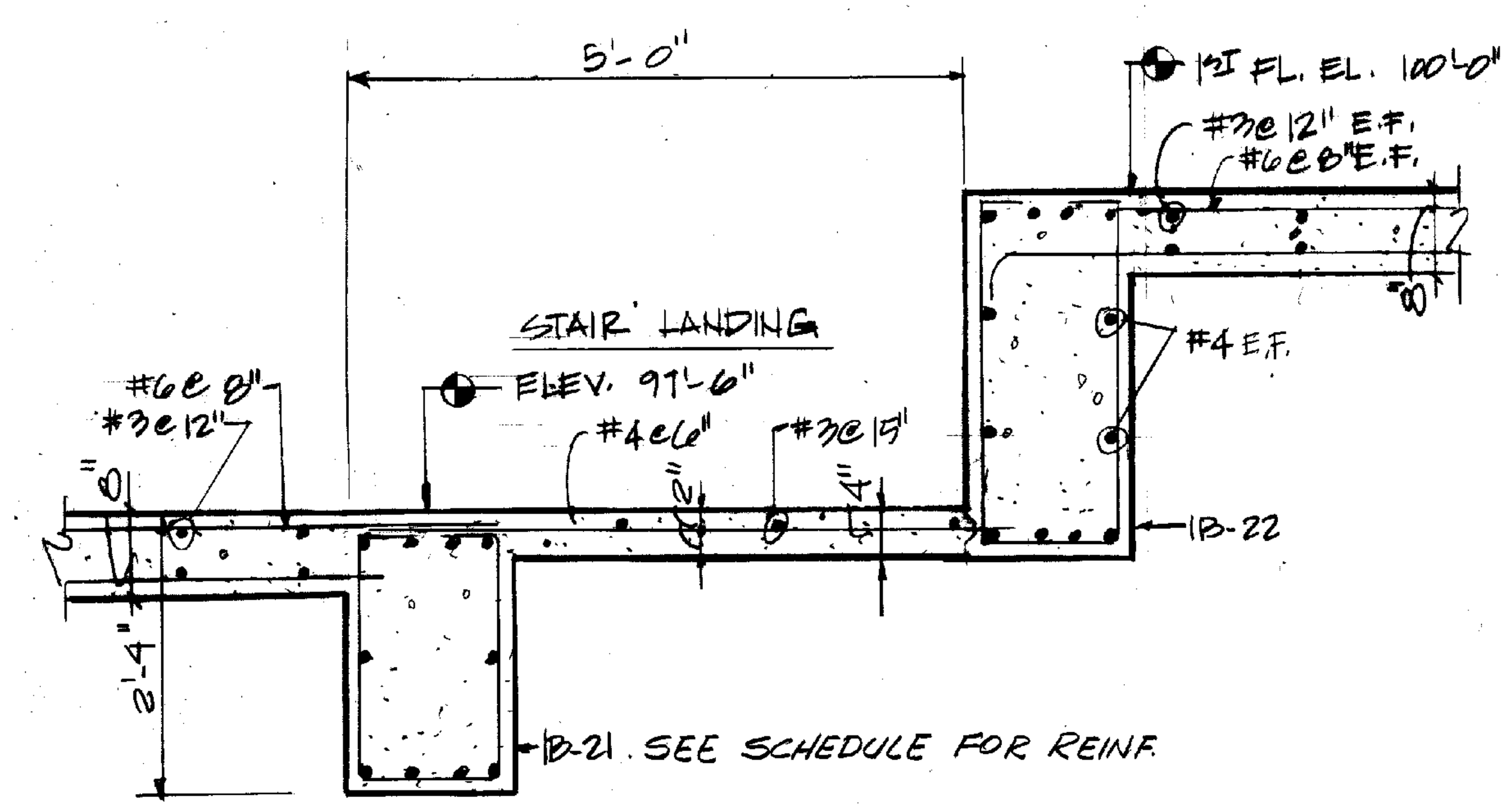
B / S-16 SECTION
SCALE: 3/4"=1'-0"



C / S-16 SECTION
SCALE: 3/4"=1'-0"



A / S-16 SECTION
SCALE: 3/4"=1'-0"



D / S-16 SECTION
SCALE: 3/4"=1'-0"

RECORD PRINTS

THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND WHICH THE ENGINEER CONSIDERS SIGNIFICANT

MASON & HANGER ENGINEERING INC.
ARCHITECT • ENGINEERS
LEXINGTON, KENTUCKY

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved by
director - design and construction division
date 11-19-87

SECTIONS & DETAILS

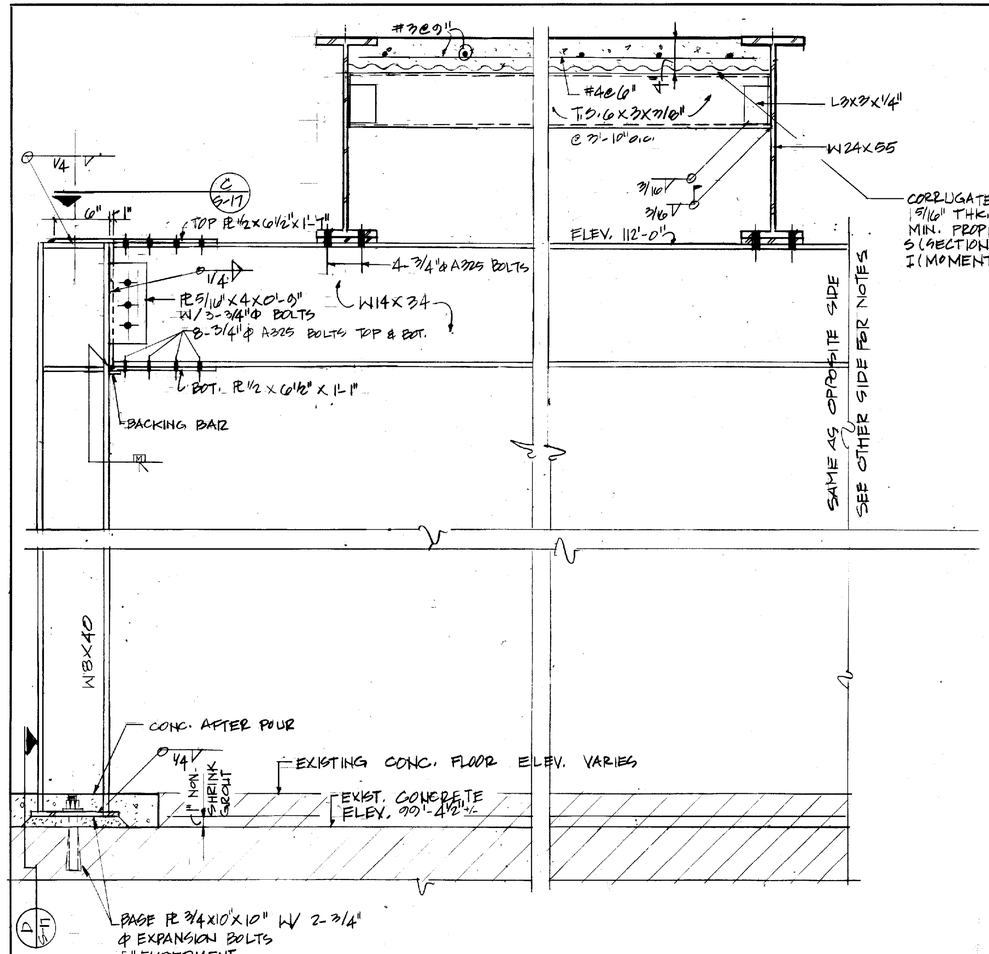
Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1000 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606 254-1350

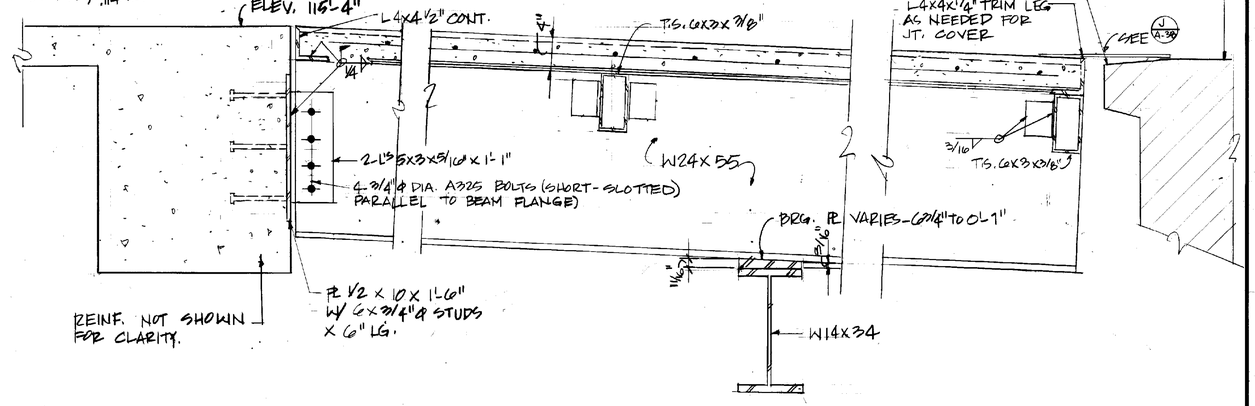
JOB NO	2046
DATE	10-19-87
DRAWN	M.A.A.
CHECKED	JEB/ALP
FILE NO.	431.0

REVISIONS

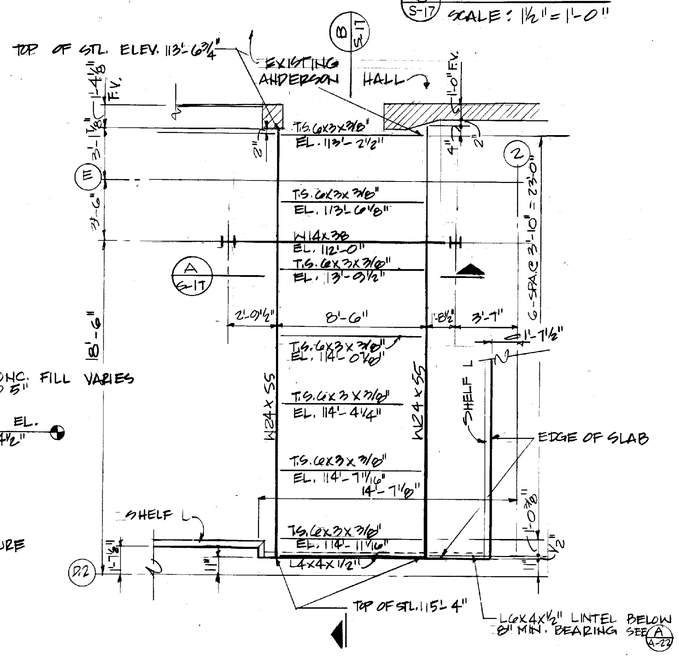
SHEET
S-16

Cab # 82 Shelf B-1 Document # 004874



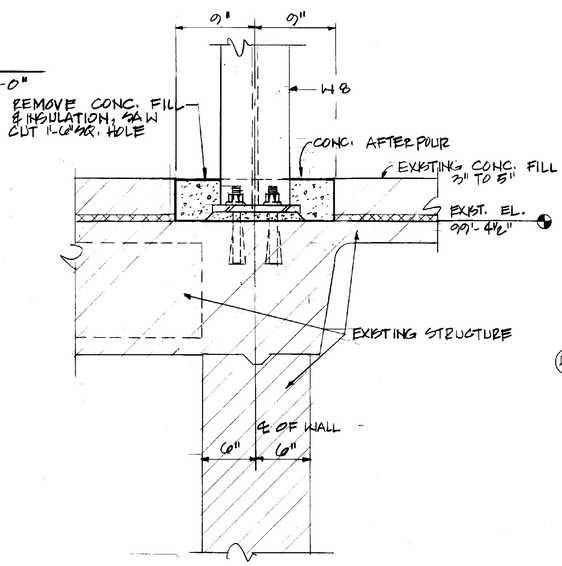


B S-17 SECTION
SCALE: 1 1/2" = 1'-0"

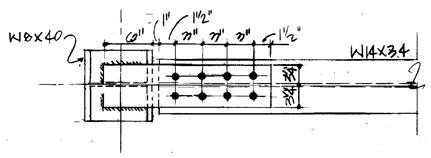


1 S-17 DETAIL
SCALE: 1/4" = 1'-0"

A S-17 SECTION
SCALE: 1 1/2" = 1'-0"



D S-17 SECTION
SCALE: 1 1/2" = 1'-0"



C S-17 SECTION
SCALE: 1 1/2" = 1'-0"

RECORD PRINTS
THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND UPON THE ENGINEERS CONSTRUCTION OBSERVATION

MASON & HANGER ENGINEERING INC.
ARCHITECT • ENGINEERS
LEXINGTON, KENTUCKY

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

SECTIONS & DETAILS

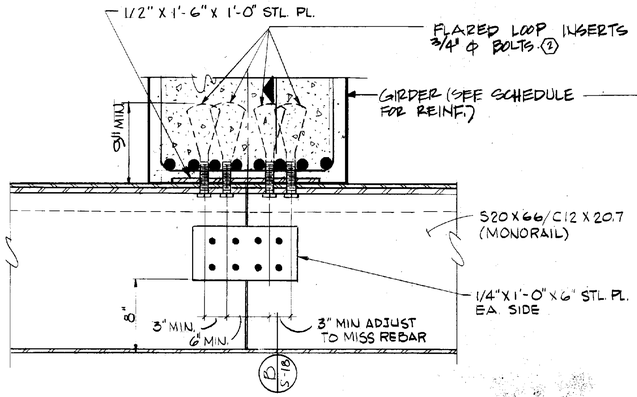
Herman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606/254-4351

JOB NO 2046
DATE 10-19-87
DRAWN M.A.A
CHECKED REJ/ALP
FILE NO. 4310

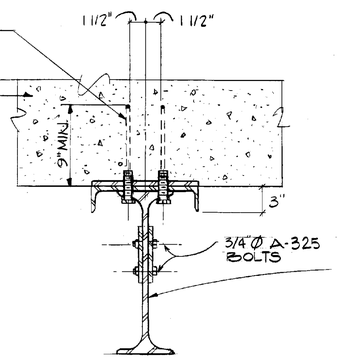
REVISIONS

Cab # 82 Shlf DC Document # 004875

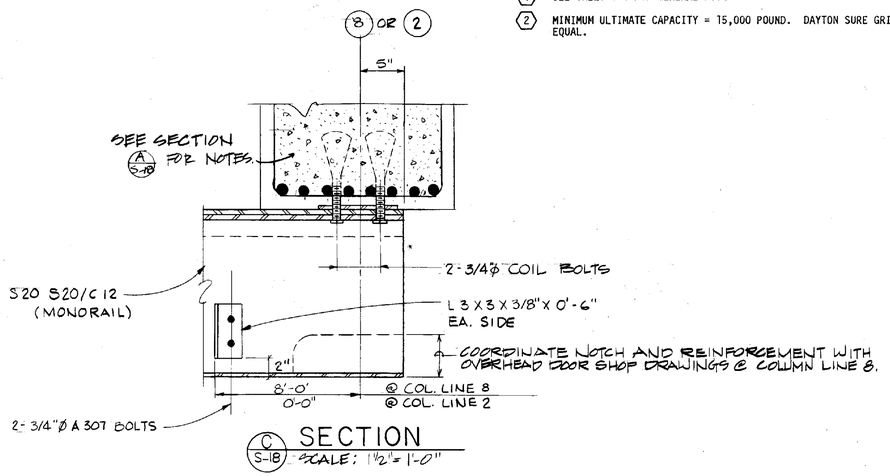
SHEET
S-17



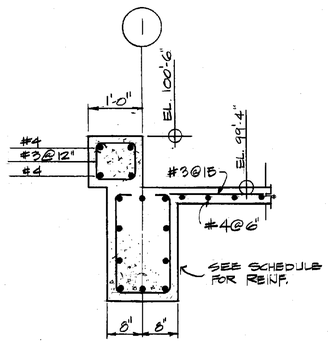
A S-18 SECTION
SCALE: 1 1/2" = 1'-0"



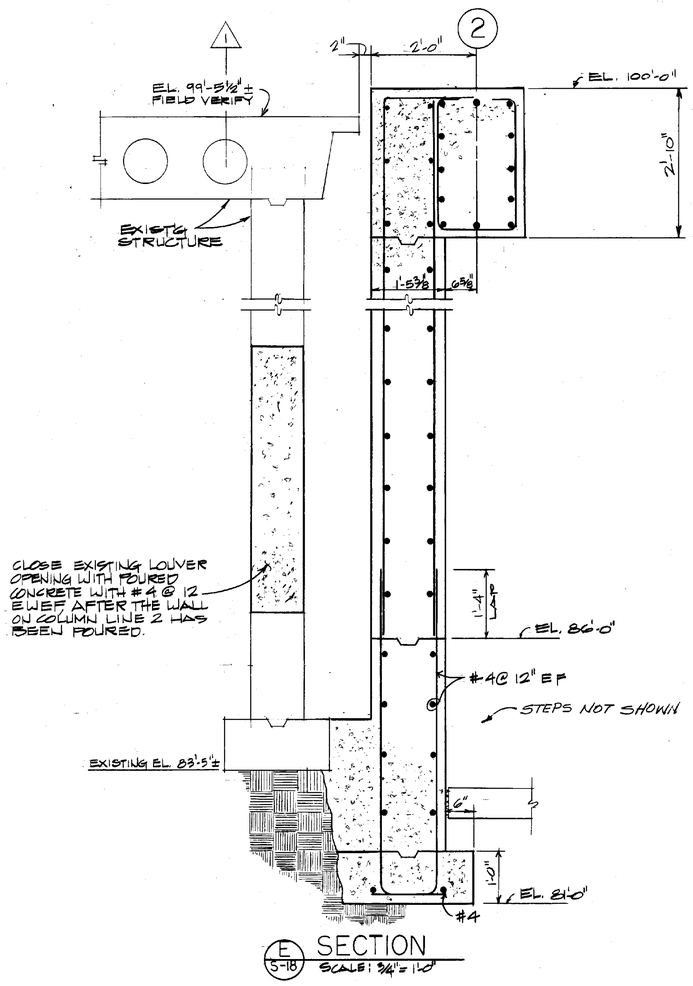
B S-18 SECTION
SCALE: 1 1/2" = 1'-0"



C S-18 SECTION
SCALE: 1 1/2" = 1'-0"



D S-18 SECTION
SCALE: 3/4" = 1'-0"



E S-18 SECTION
SCALE: 3/4" = 1'-0"

S-18

NOTES

1. SEE SHEET S-1 FOR GENERAL NOTES
2. MINIMUM ULTIMATE CAPACITY = 15,000 POUND. DAYTON SURE GRIP B-18 OR EQUAL.

RECORD PRINTS

THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND WHICH THE ENGINEER CONSIDERS SIGNIFICANT.

MASON & HANGER ENGINEERING INC.
ARCHITECT • ENGINEERS
LEXINGTON, KENTUCKY

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by [signature] director - design and construction division
10-19-87 date

SECTIONS & DETAILS

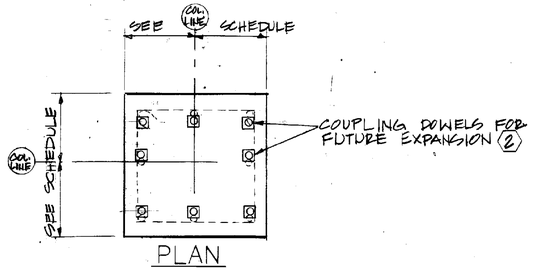
Herman, Carter, Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1800 • 250 WEST MAIN STREET • LEXINGTON, KY. 40507 • 606/254-1331

JOB NO. 2046
DATE 10-19-87
DRAWN ST/MB
CHECKED REJ/ALP
FILE NO. 4231.0

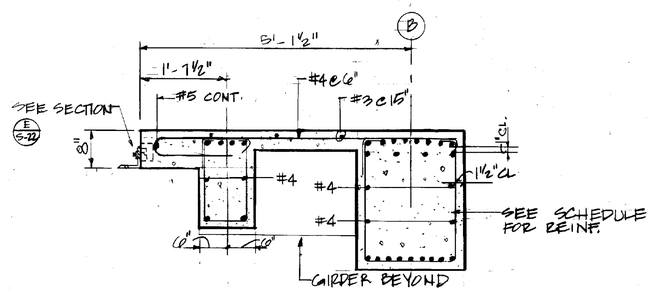
REVISIONS

Cab # 32 Slot R-1 Document # 0048576

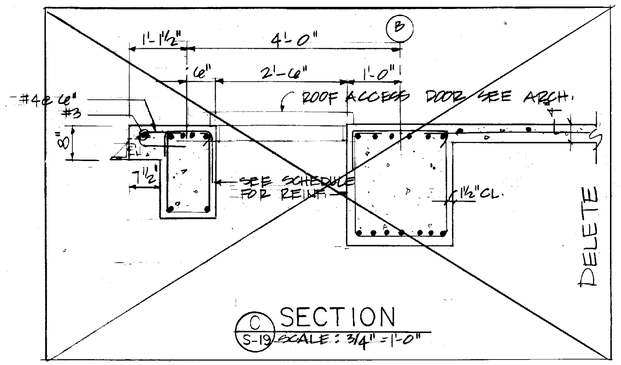
SHEET
S-18



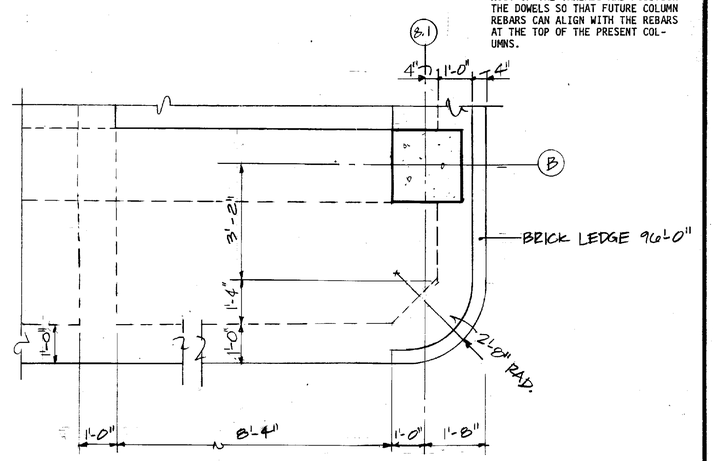
1 S-19 DETAIL
SCALE: 1" = 1'-0"



B S-19 SECTION
SCALE: 3/4" = 1'-0"

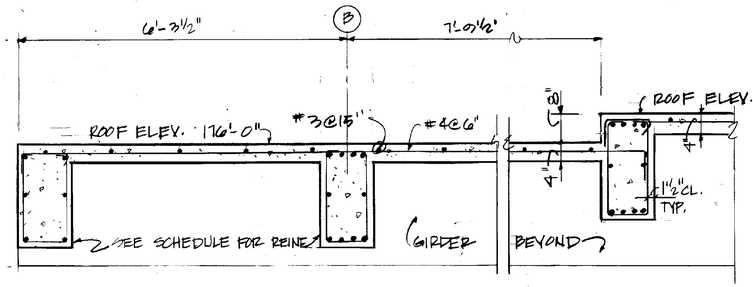


C S-19 SECTION
SCALE: 3/4" = 1'-0"

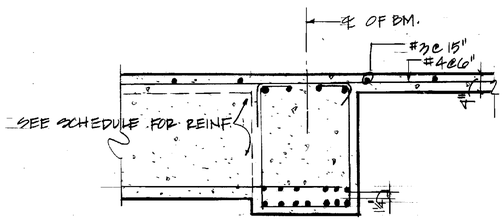


2 S-19 DETAIL
SCALE: 1/2" = 1'-0"

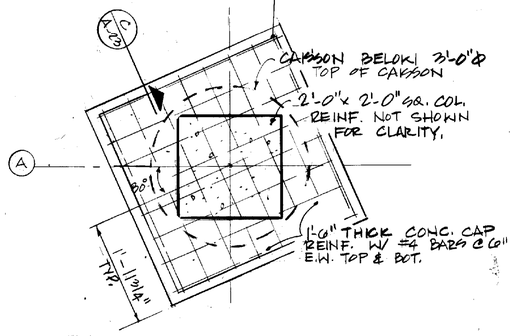
A S-19 SECTION
SCALE: 3/4" = 1'-0"



D S-19 SECTION
SCALE: 3/4" = 1'-0"



E S-19 SECTION
SCALE: 3/4" = 1'-0"



3 S-19 DETAIL
SCALE: 3/4" = 1'-0"

S-19 NOTES

1. SEE SHEET S-1 FOR GENERAL NOTES
2. TO FACILITATE ADDING 2 MORE STORIES TO THE BUILDING IN THE FUTURE, AT EACH COLUMN PROVIDE THREADED DOWELS AND STRAIGHT REBAR COUPLERS FOR EACH COLUMN REBAR. INCREASE DOWEL BAR SIZE AS REQUIRED TO DEVELOP 125% OF A CLASS C TENSION SPLICE AT THE ROOT OF THE THREADS AND POSITION THE DOWELS SO THAT FUTURE COLUMN REBARS CAN ALIGN WITH THE REBARS AT THE TOP OF THE PRESENT COLUMNS.

RECORD PRINTS

THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND UPON THE ENGINEER'S OBSERVATION DURING CONSTRUCTION

MASON & HANGER ENGINEERING INC.
ARCHITECT • ENGINEERS
LEXINGTON, KENTUCKY

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

SECTIONS & DETAILS

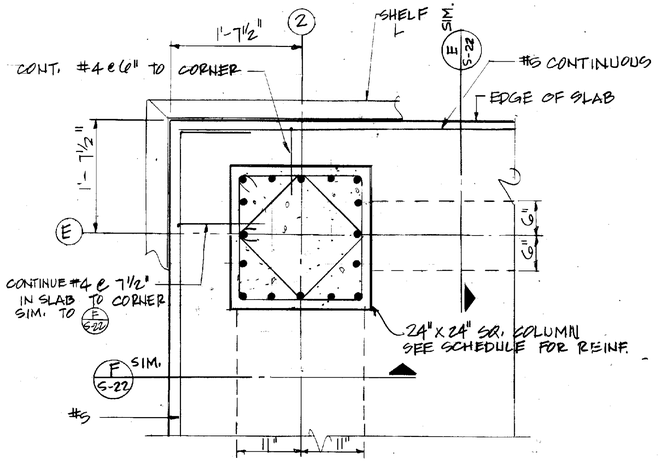
Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1000 • 300 WEST MAIN STREET • LEXINGTON, KY 40507 • (606) 254-1551

JOB NO 2046
DATE 10-19-87
DRAWN M.A.A.
CHECKED JEB/ALP
FILE NO. 431.0

REVISIONS

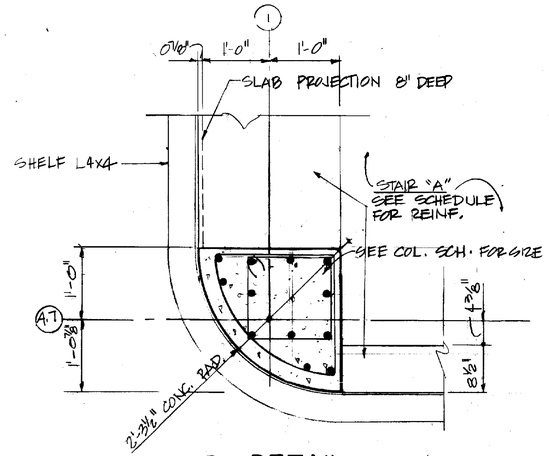
Cab # 82 Slot D-1 Document # 004877

SHEET
S-19

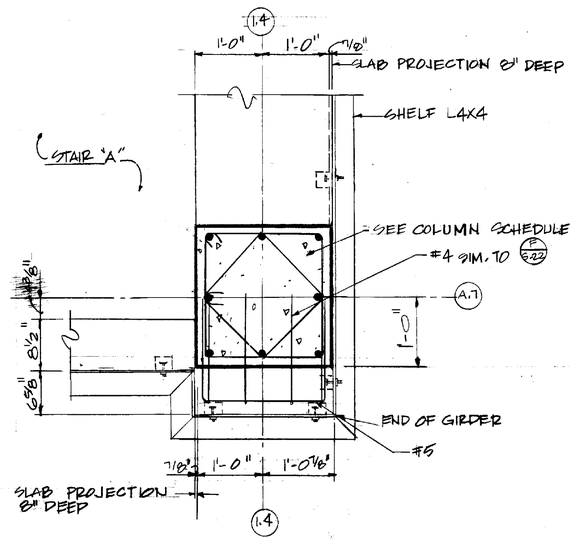


PLAN

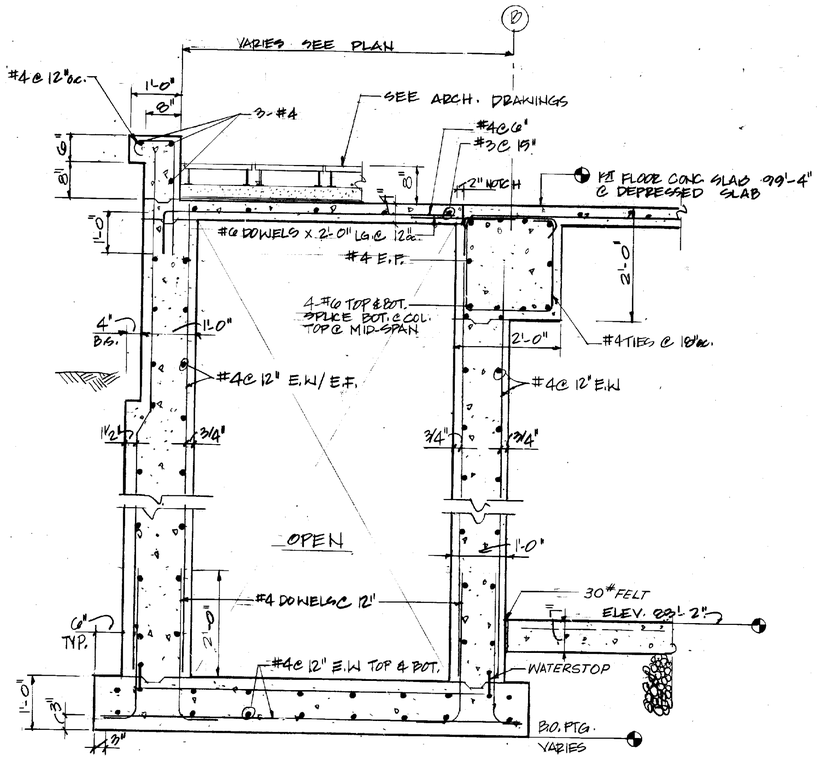
1 S-20 DETAIL
SCALE: 1"=1'-0"



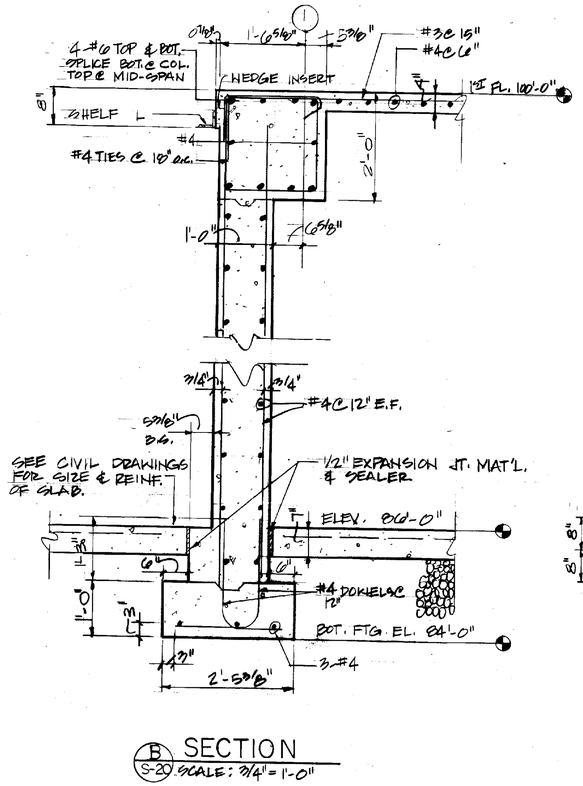
2 S-20 DETAIL
SCALE: 1"=1'-0"



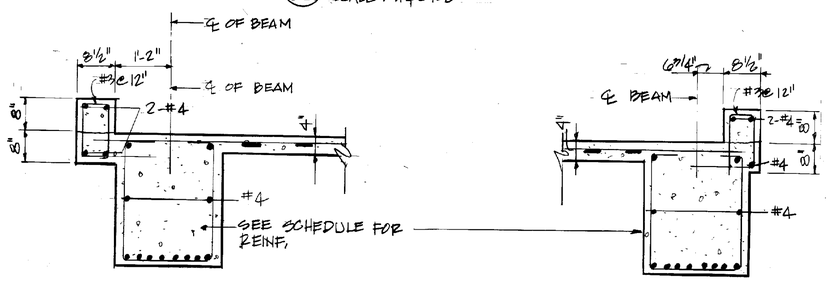
3 S-20 DETAIL
SCALE: 1"=1'-0"



A S20 SECTION
SCALE: 3/4"=1'-0"

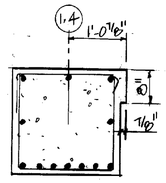


B S-20 SECTION
SCALE: 3/4"=1'-0"



D S-20 SECTION
SCALE: 3/4"=1'-0"

E S-20 SECTION
SCALE: 3/4"=1'-0"



C S-20 SECTION
SCALE: 3/4"=1'-0"

RECORD PRINTS

THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND WHICH THE ENGINEER CONSIDERS SIGNIFICANT.

MASON & HANGER ENGINEERING INC.
ARCHITECT • ENGINEERS
LEXINGTON, KENTUCKY

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

Approved by
Director - Design and Construction Division
10.19.87
date

SECTIONS & DETAILS

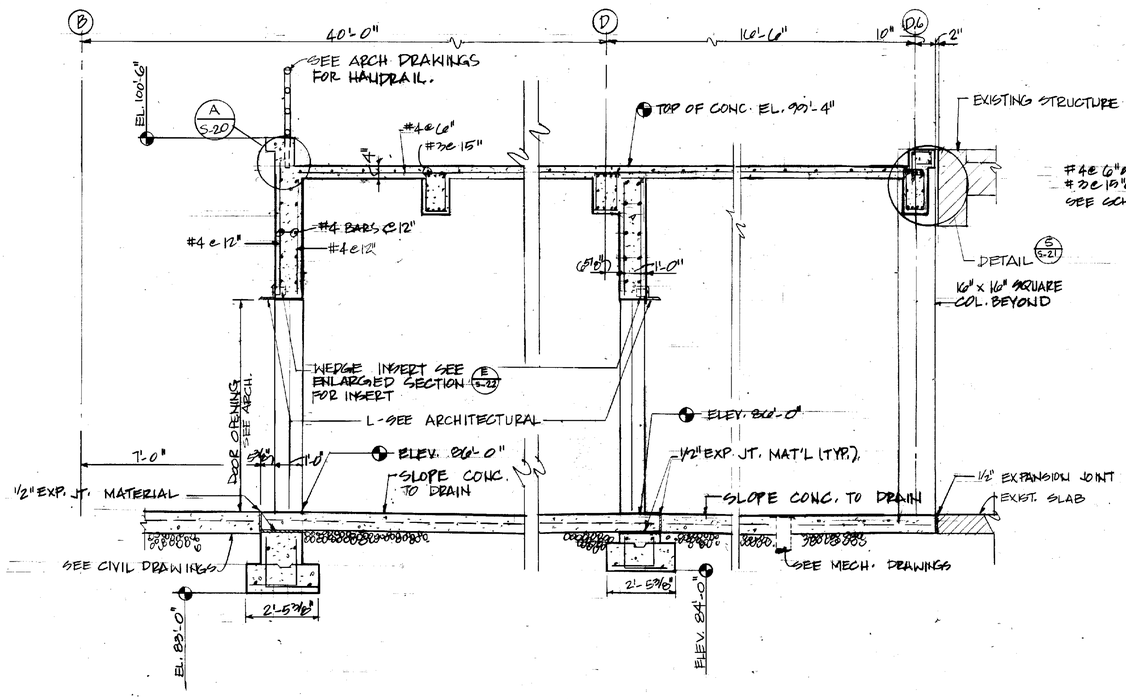
Sherman Carter Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1000 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-1551

JOB NO	2046
DATE	10-19-87
DRAWN	M.A.A.
CHECKED	A.L.P.
FILE NO.	431.0

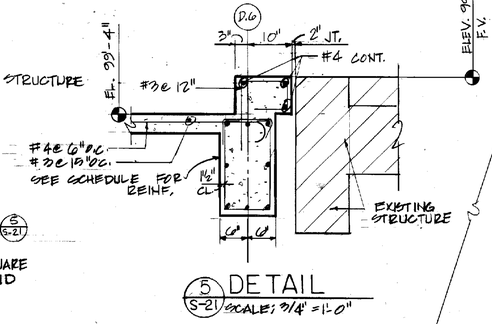
REVISIONS

Cab # 32 Slot E-1 Document # 001878

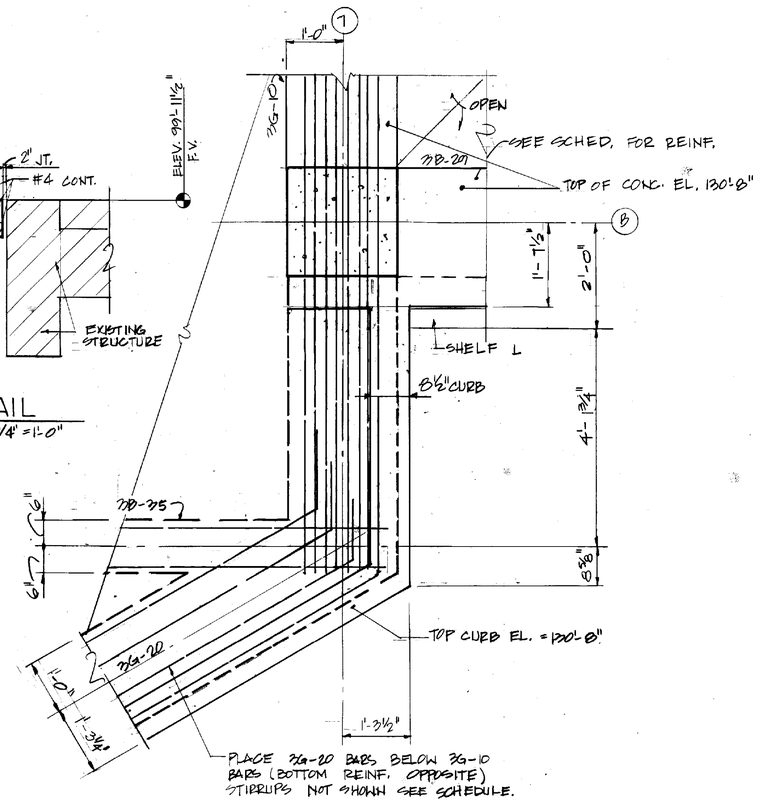
SHEET
S-20



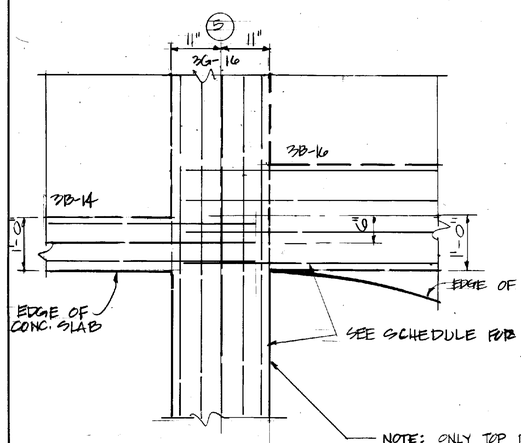
A S-21 SECTION
SCALE: 3/8" = 1'-0"



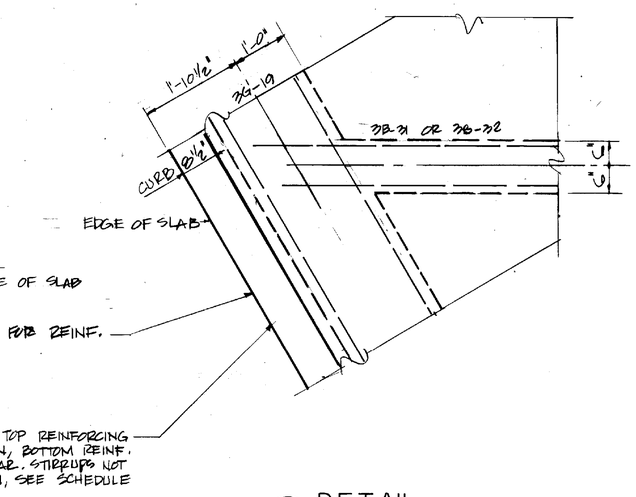
5 S-21 DETAIL
SCALE: 3/4" = 1'-0"



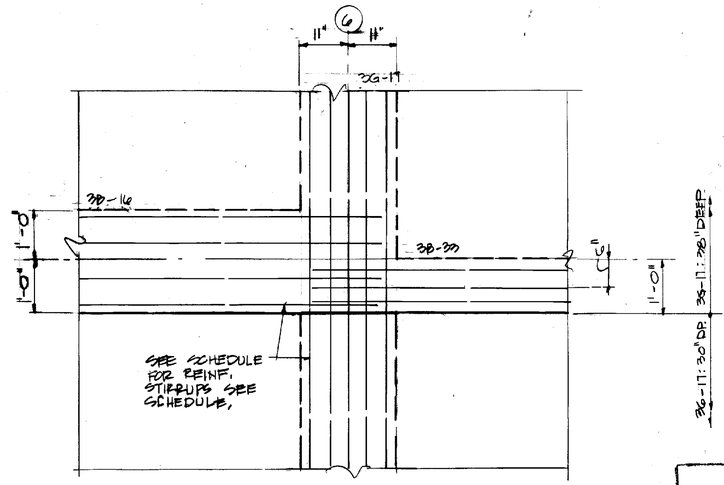
1 S-21 DETAIL
SCALE: 3/4" = 1'-0"



2 S-21 DETAIL
SCALE: 3/4" = 1'-0"



3 S-21 DETAIL
SCALE: 3/4" = 1'-0"



4 S-21 DETAIL
SCALE: 3/4" = 1'-0"

RECORD PRINTS

THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND UPON THE ENGINEER CONSIDERED SIGNIFICANT

MASON & HANGER ENGINEERING IN.
ARCHITECT • ENGINEERS
LEXINGTON, KENTUCKY

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

10-19-87
date

approved by

director - design & construction

SECTIONS & DETAILS

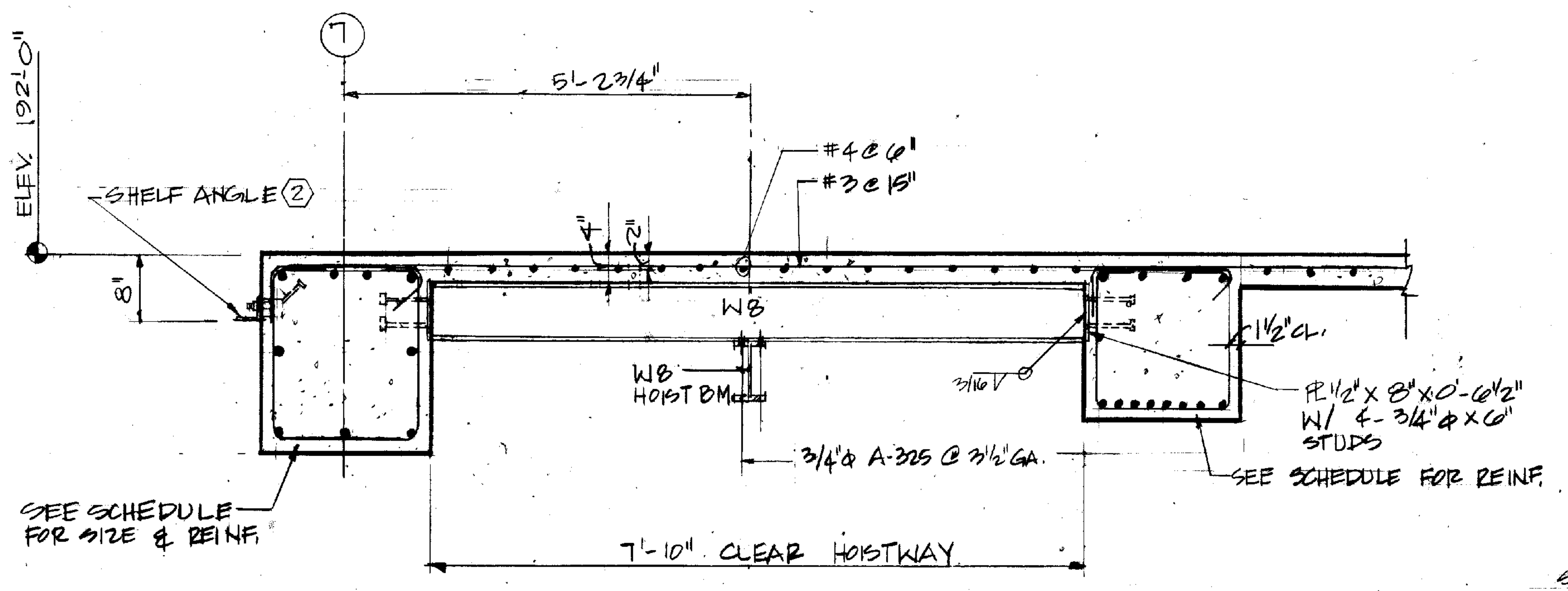
Sherman Carter Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1800 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-1781

JOB NO 2046
DATE 10-19-87
DRAWN M.A.A.
CHECKED JEB/ALP
FILE NO. 4310

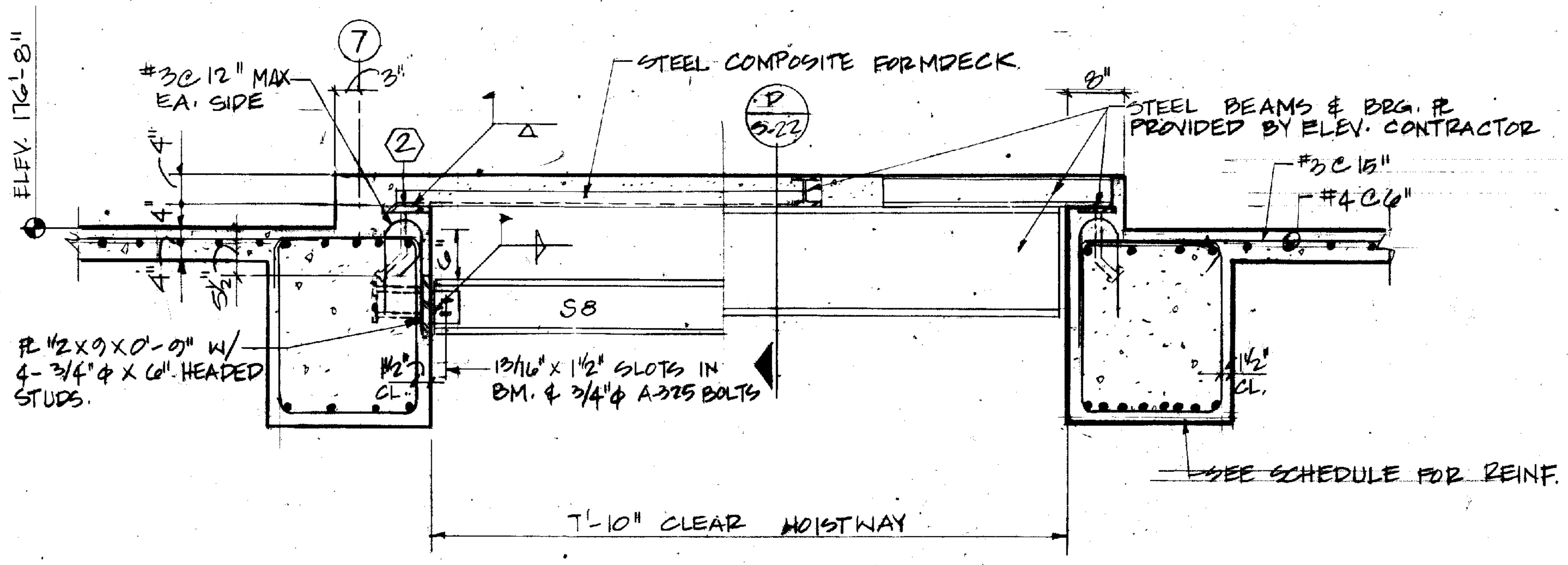
REVISIONS

Cab. # 82 Slot B-1 Document # 0048579

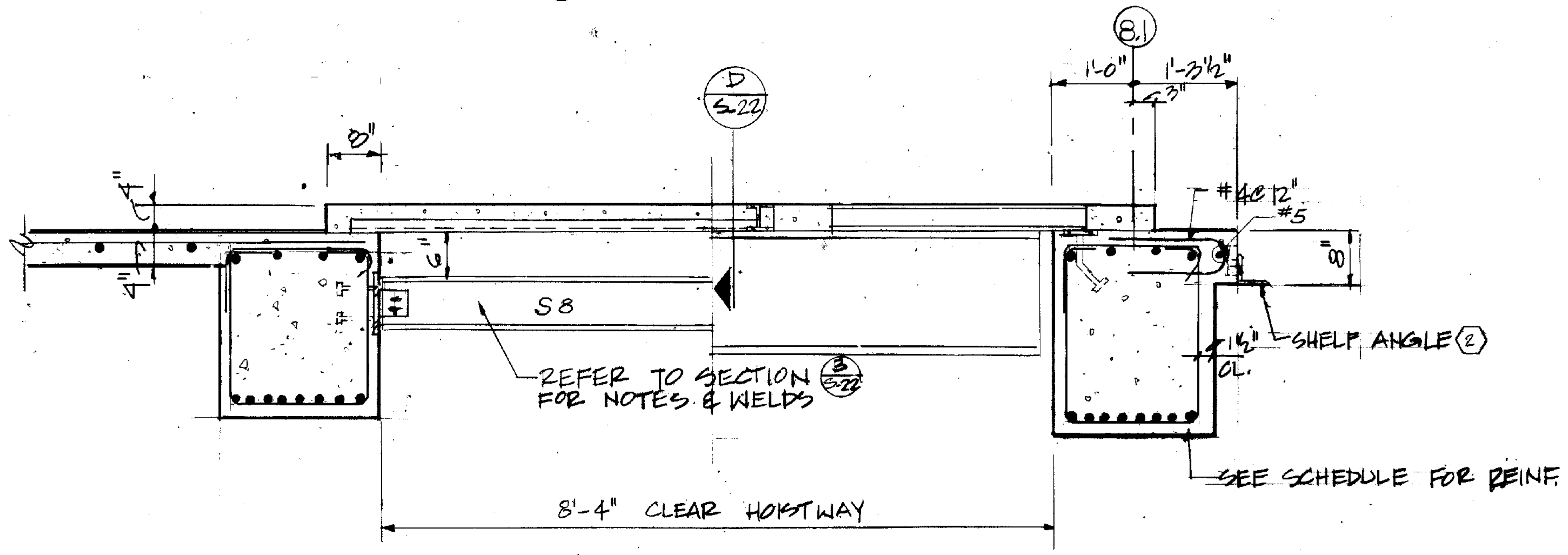
SHEET
S-21



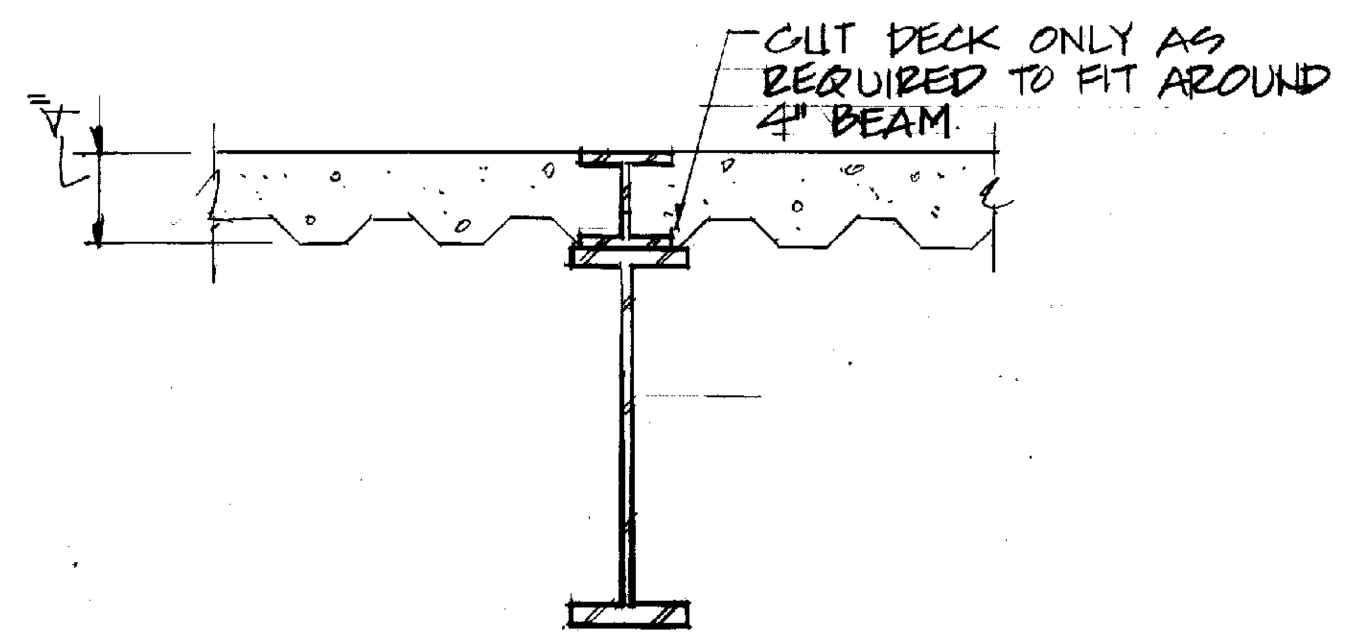
SECTION A/S-22
SCALE: 3/4" = 1'-0"



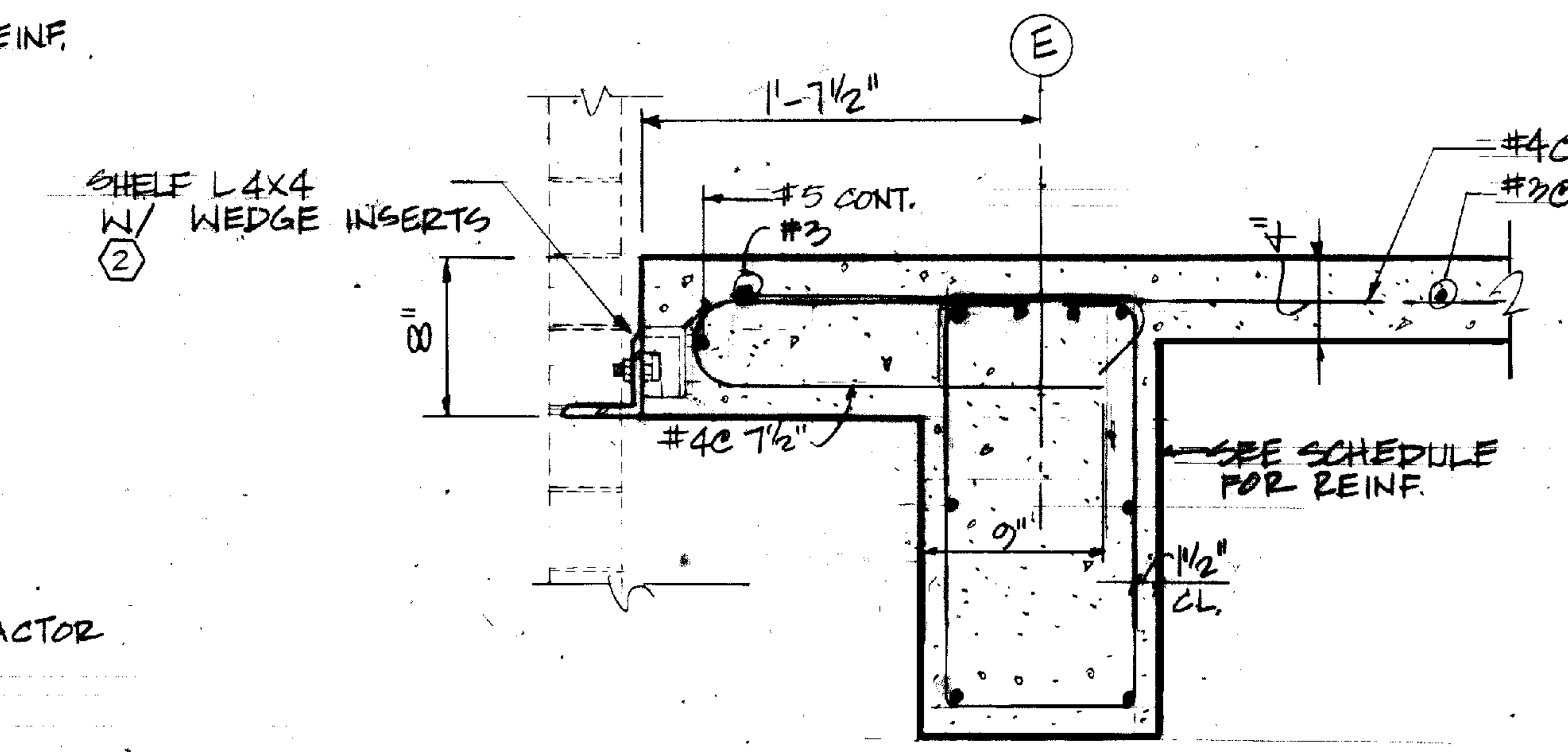
SECTION B/S-22
SCALE: 3/4" = 1'-0"



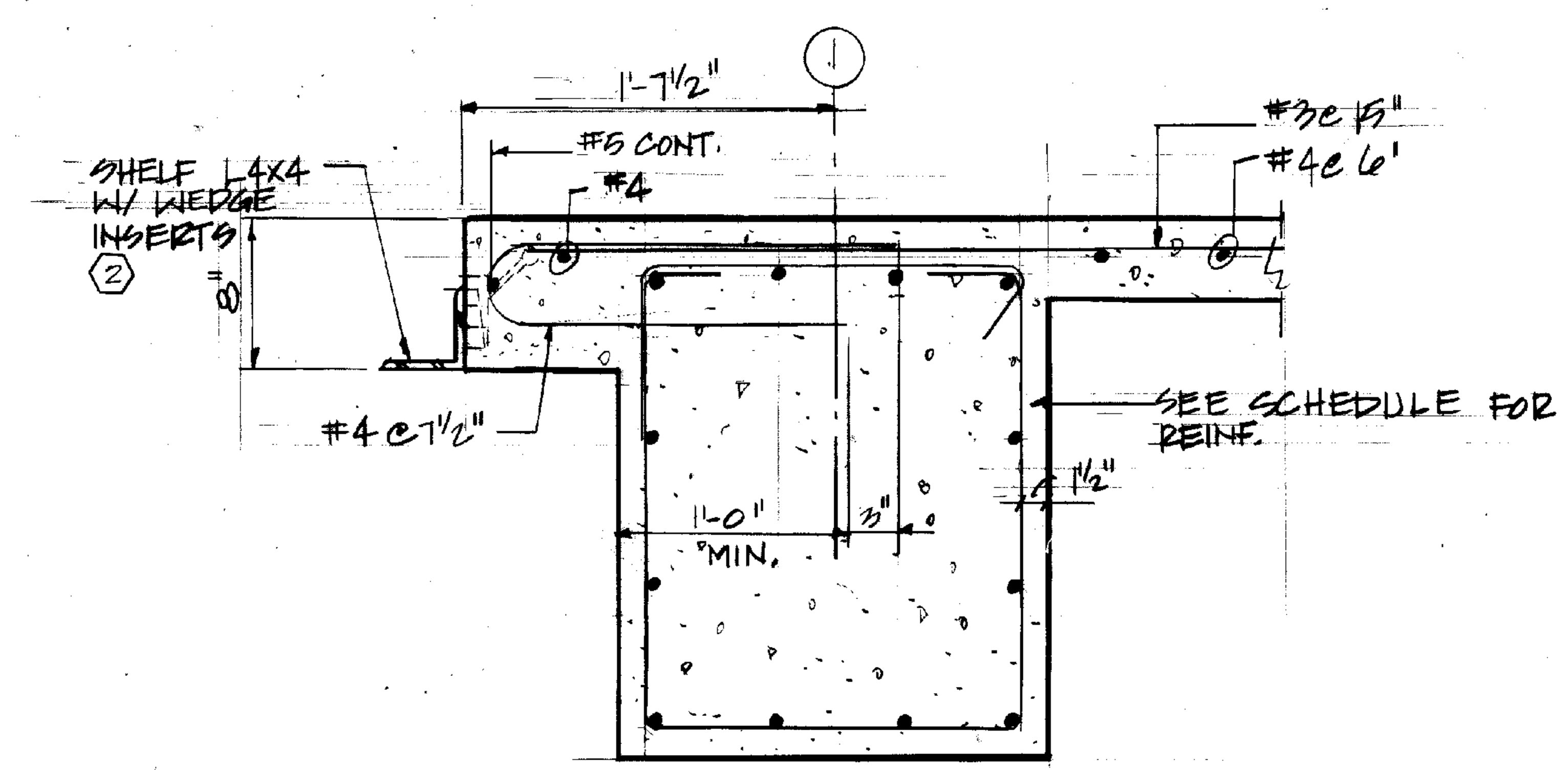
SECTION C/S-22
SCALE: 3/4" = 1'-0"



SECTION D/S-22
SCALE: 1 1/2" = 1'-0"



SECTION E/S-22
SCALE: 1 1/2" = 1'-0"



SECTION F/S-22
SCALE: 1 1/2" = 1'-0"

NOTES

1. SEE SHEET S-1 FOR GENERAL NOTES
2. WEDGE TYPE CONCRETE INSERTS FOR ATTACHMENT OF SHELF ANGLES SHALL BE DAYTON SURE GRIP NO. F-8 OR APPROVED EQUAL.

RECORD PRINTS

THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED-UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND WHICH THE ENGINEER CONSIDERS SIGNIFICANT.

MASON & HANGER ENGINEERING INC.
ARCHITECT • ENGINEERS
LEXINGTON, KENTUCKY

STATE OF KENTUCKY — ALVIN L. POPE — 6188 — REGISTERED PROFESSIONAL ENGINEER

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved by 10-19-87

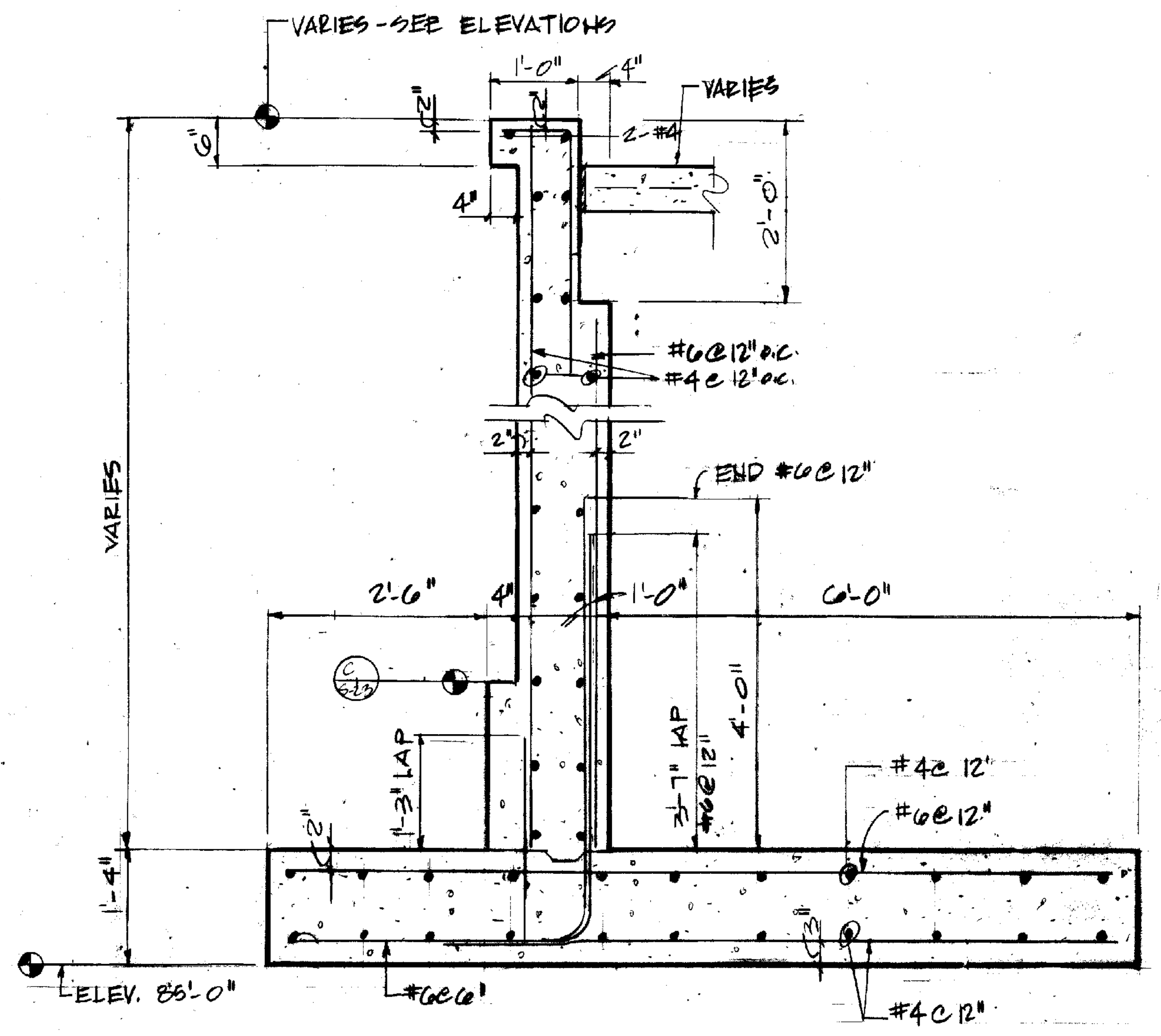
SECTIONS & DETAILS

Sherman-Carter-Barnhart
PARTNERS IN ARCHITECTURE

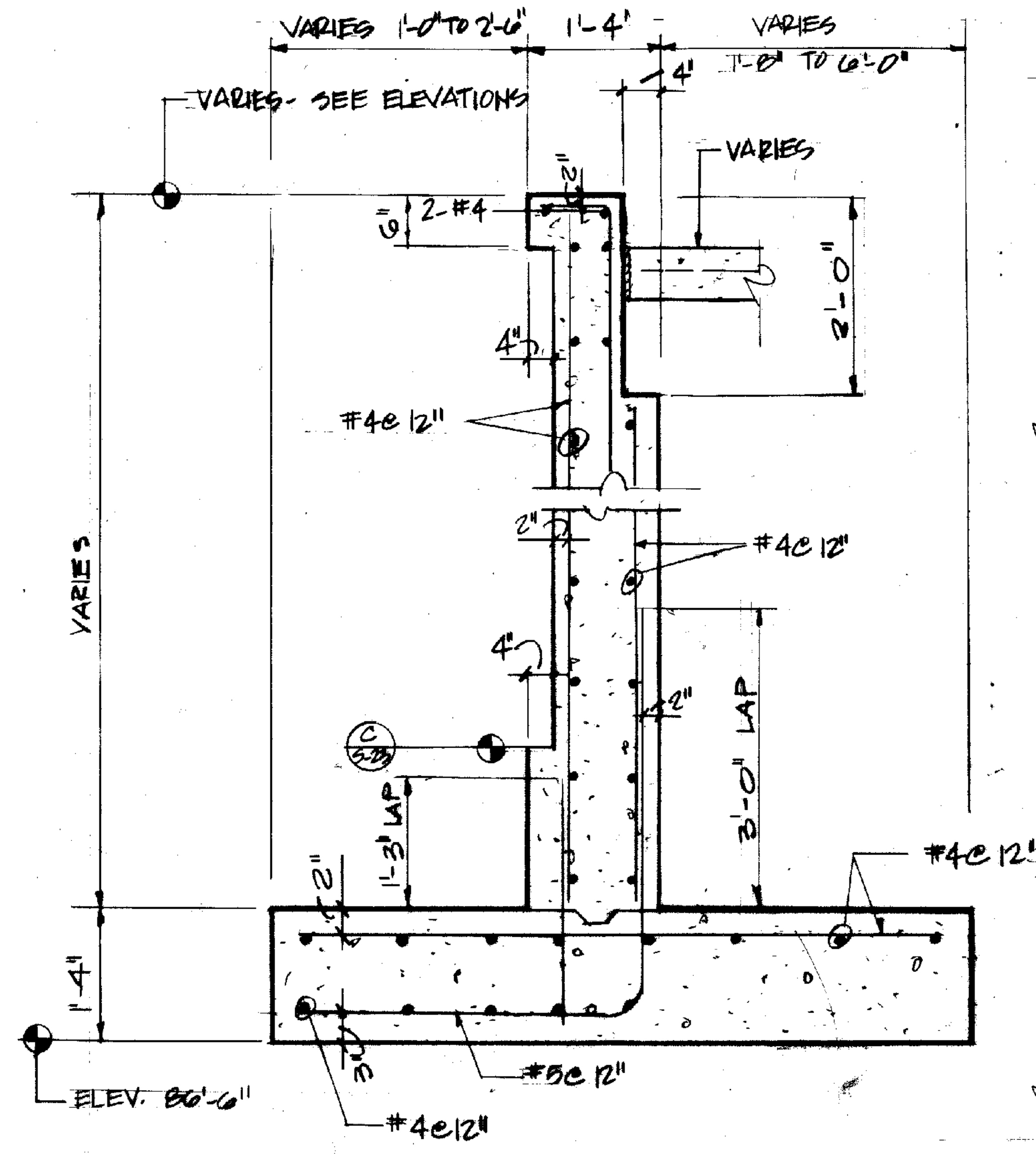
JOB NO	2046
DATE	10-19-87
DRAWN	M.A.A.
CHECKED	A.L.P.
FILE NO.	431.0

REVISIONS

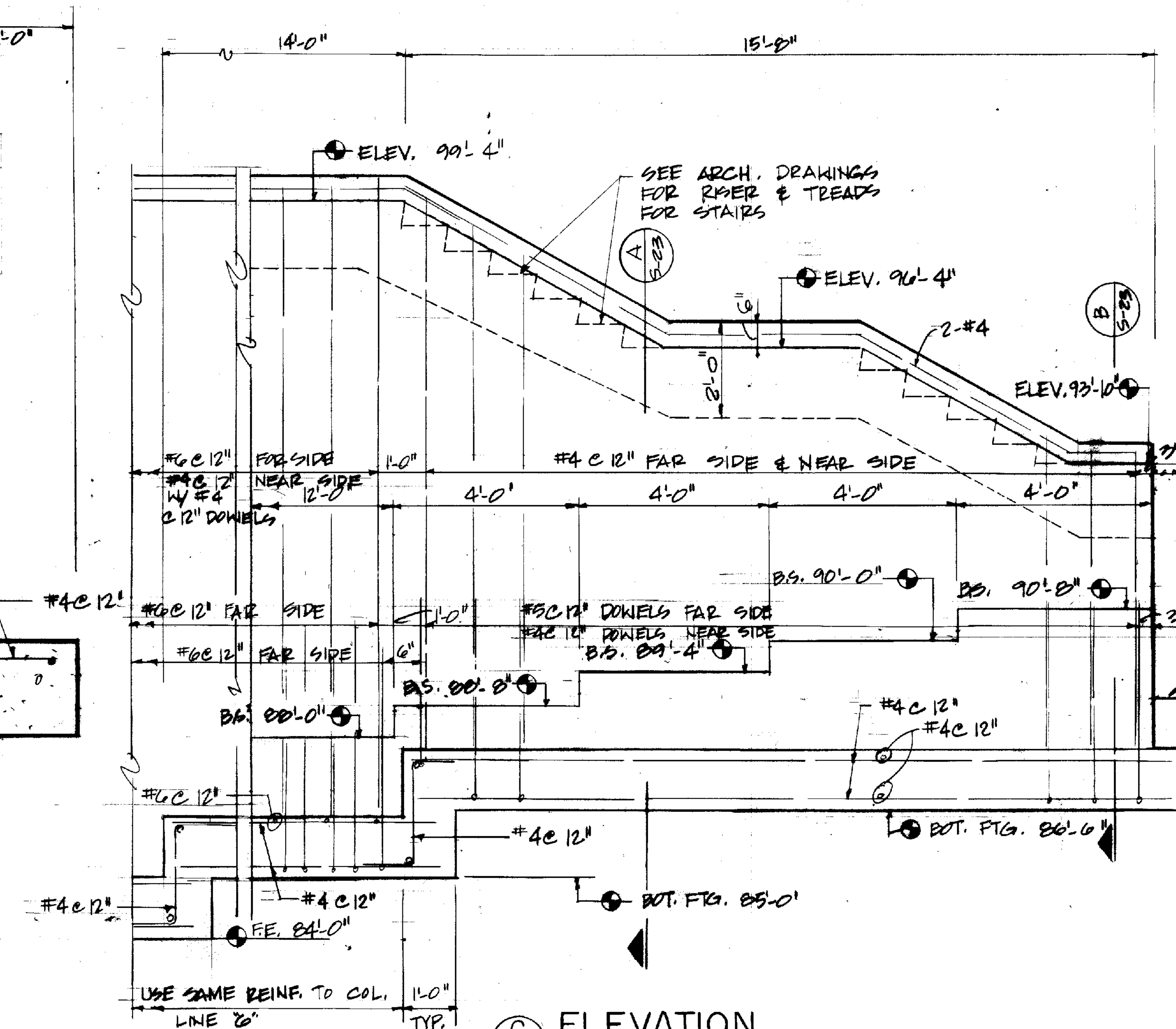
SHEET
S-22



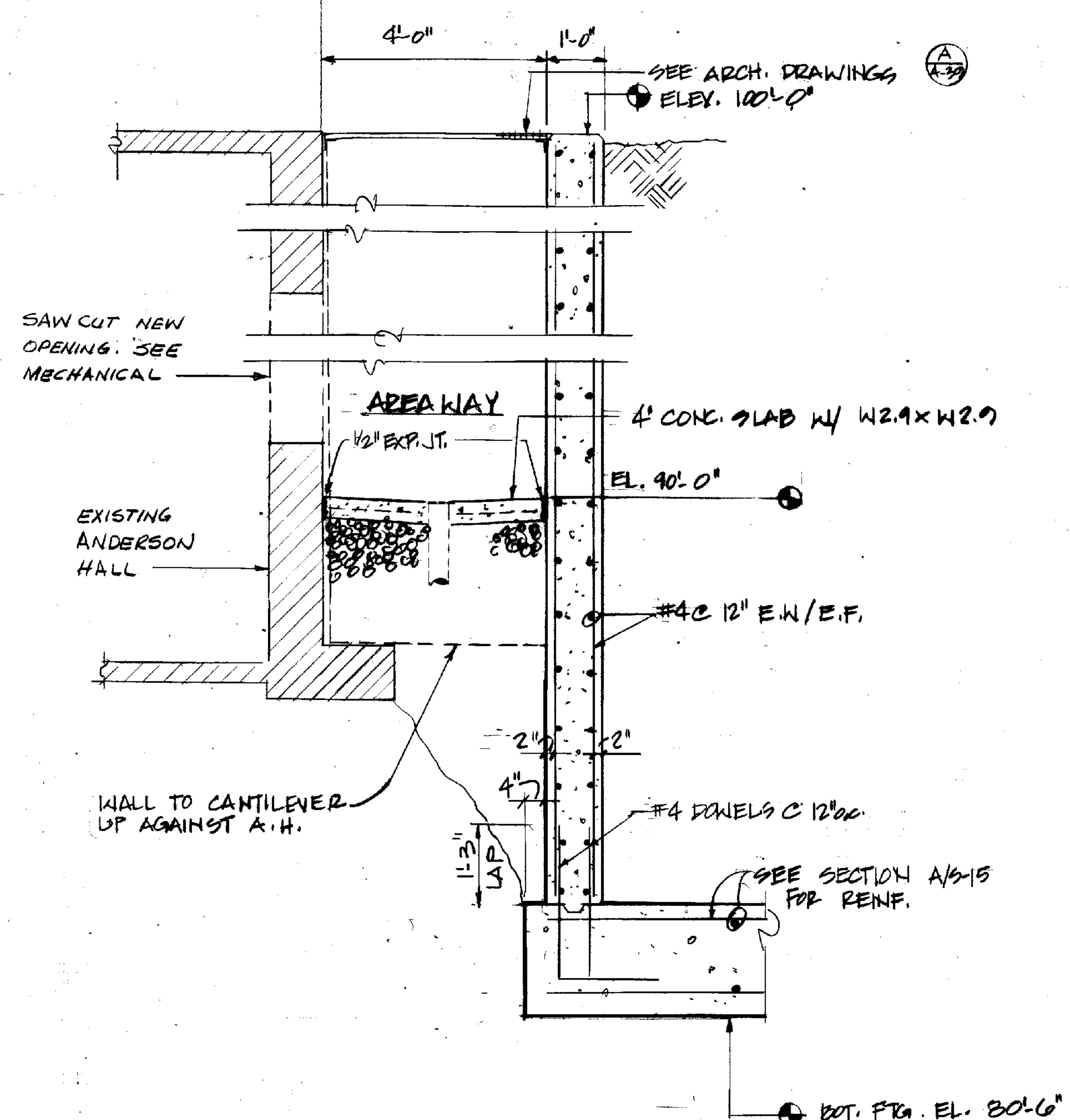
(A/S-23) SECTION
SCALE: 3/4"=1'-0"



(B/S-23) SECTION
SCALE: 3/4" = 1'-0"



(C/S-23) ELEVATION
SCALE: 1/2" = 1'-0"



(D/S-23) SECTION
SCALE: 1/2" = 1'-0"

RECORD PRINTS

THESE ARE RECORD PRINTS OF DRAWINGS BASED UPON MARKED UP PRINTS, DRAWINGS AND OTHER DATA FURNISHED BY THE CONTRACTOR TO THE ENGINEER AND SHOW THE ENGINEERS CONSIDERED SIGNIFICANT.

MASON & HANGER ENGINEERING INC.
ARCHITECT • ENGINEERS
LEXINGTON, KENTUCKY

STATE OF KENTUCKY — ALVIN L. POPE — 6103 — REGISTERED PROFESSIONAL ENGINEER

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by: [signature] 10-19-87

SECTIONS & DETAILS

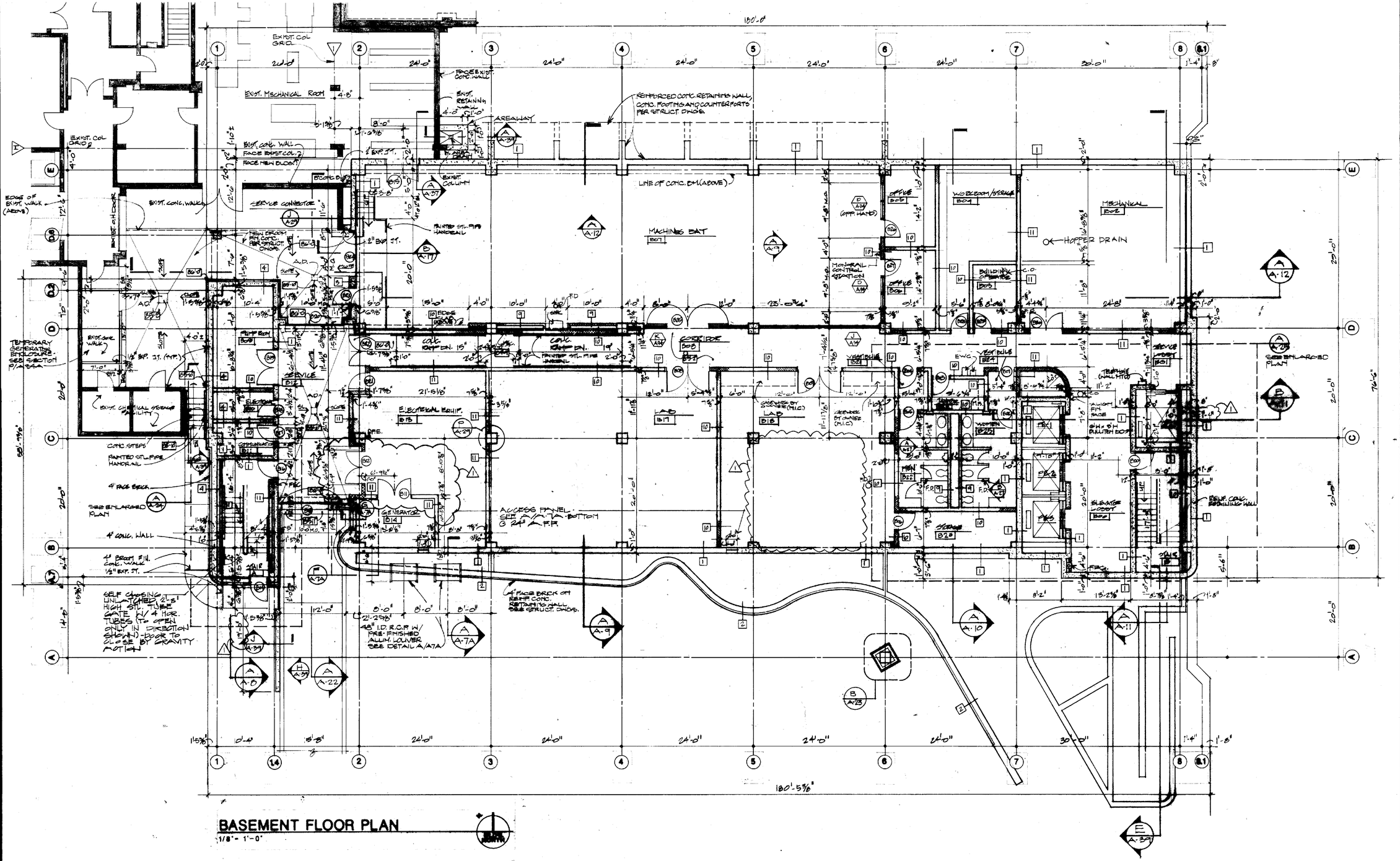
Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE

JOB NO.	2046
DATE	10-19-87
DRAWN	MAA
CHECKED	F.F.H.
FILE NO.	431.0

REVISIONS

SHEET **S-23**

Cab # 32 Slot B-1 Document # 004881



BASEMENT FLOOR PLAN

1/8" = 1'-0"

LEGEND

- (101) DOOR/FRAME NUMBER. REFER TO SCHED., SHT. A-33.
- 101 ROOM NUMBER. REFER TO FINISH SCHED., SHTS. A-31,A-32.
- A CURTAINWALL TYPE. REFER TO BLDG. ELEVATIONS & SHTS. A-35,A-36
- A -WALL/PARTITION TYPE. REFER TO SCHED., SHT. A-23

PRELIMINARY NOT RELEASED FOR CONSTRUCTION

KENTUCKY REGISTERED ARCHITECT

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

10-19-87

BASEMENT FLOOR PLAN

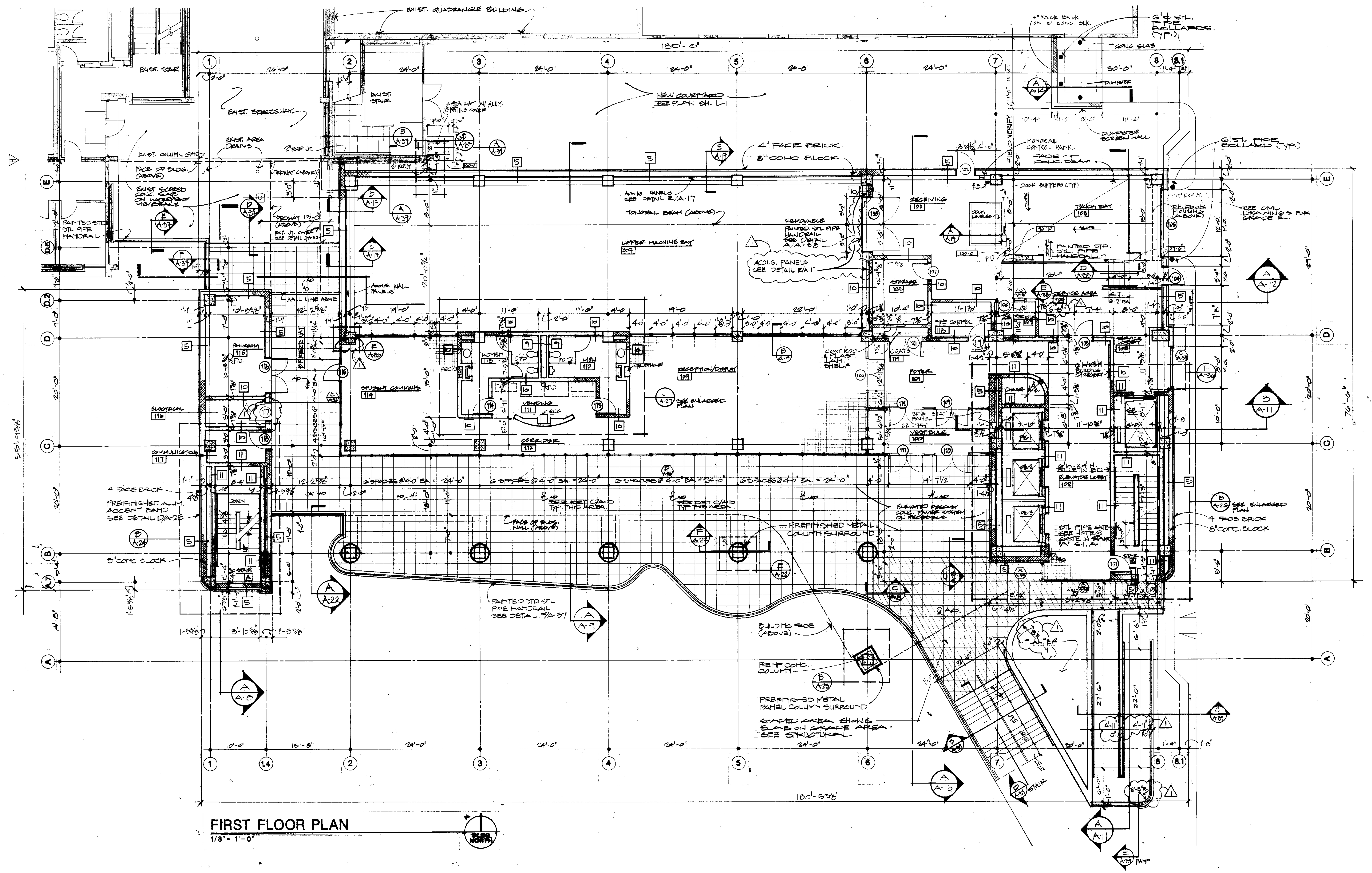
Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606-254-1351

JOB NO.	8706
DATE	10-2-87
DRAWN	GHPP
CHECKED	CEB
FILE NO.	431.0

REVISIONS
1 - A-6 SUNT 2/18/91

SHEET
A•1

Cab.# 82 Shel. C-1 Document # U043853



FIRST FLOOR PLAN

1/8" = 1'-0"

PLAN NORTH

LEGEND

- (101) DOOR/FRAME NUMBER. REFER TO SCHED., SHT. A-33.
- [101] ROOM NUMBER. REFER TO FINISH SCHED., SHTS. A-31,A-32.
- (A) CURTAINWALL TYPE. REFER TO BLDG. ELEVATIONS & SHTS. A-35,A-36
- [1] WALL/PARTITION TYPE. REFER TO SCHED., SHT. A-23

ROBOTICS FACILITY

LEXINGTON CAMPUS

UNIVERSITY OF KENTUCKY

LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by [signature] 10.19.87

director · design and construction division

FIRST FLOOR PLAN

Sherman-Carter-Barnhart

PARTNERS IN ARCHITECTURE

SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-1351

JOB NO.	8706
DATE	10-1-87
DRAWN	PREPM
CHECKED	CEB
FILE NO.	431.0

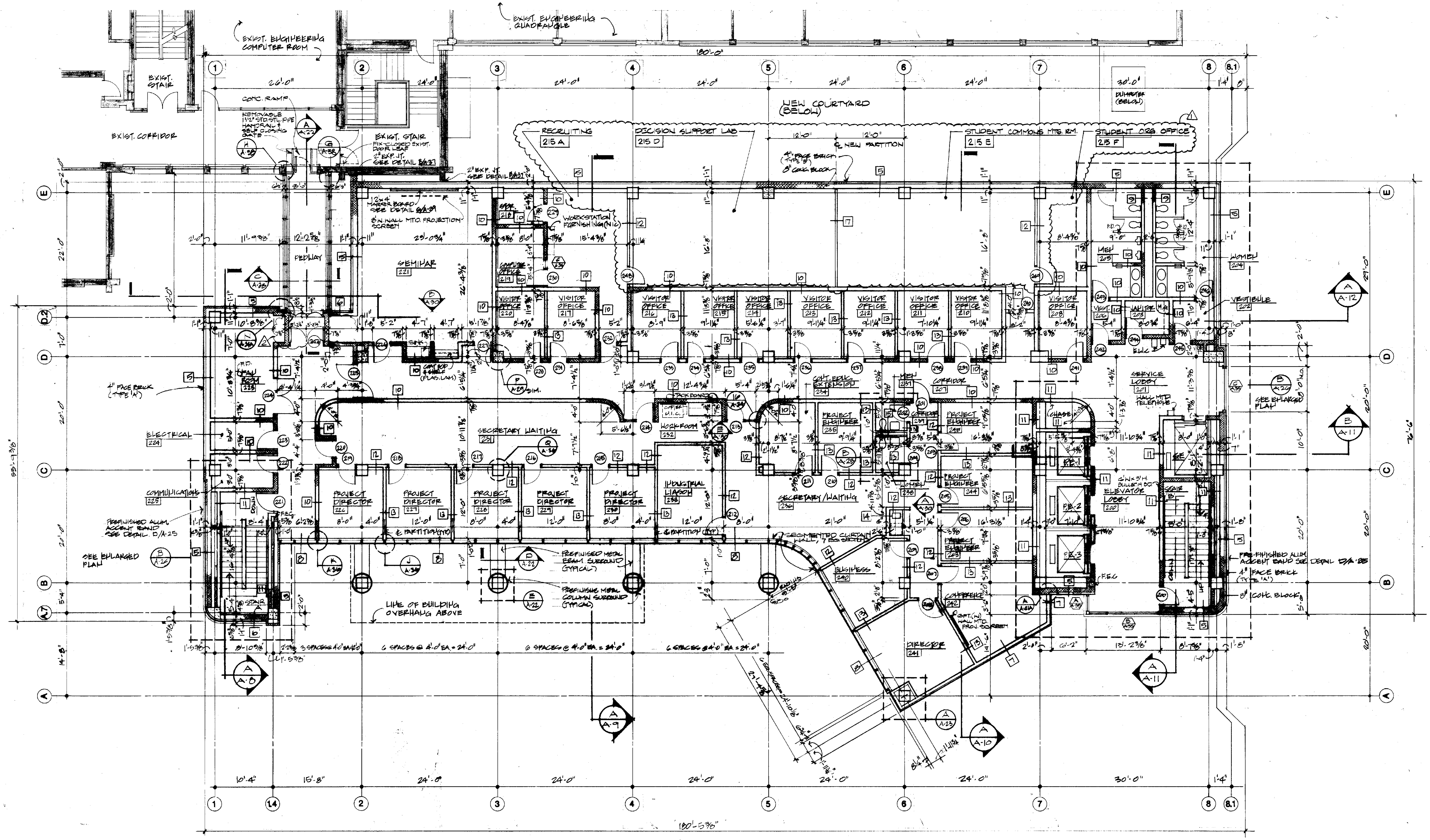
REVISIONS

1 AS-BUILT 2/18/9.

SHEET

A•2

Cab # C-1 Slot 32 Document # 004384



SECOND FLOOR PLAN

1/8" = 1'-0"

BLDG. NORTH

LEGEND

- (101) DOOR/FRAME NUMBER. REFER TO SCHED., SHT. A-33.
- [101] ROOM NUMBER. REFER TO FINISH SCHED., SHTS. A-31,A-32.
- (A) CURTAINWALL TYPE. REFER TO BLDG. ELEVATIONS & SHTS. A-35,A-36
- [1] WALL/PARTITION TYPE. REFER TO SCHED., SHT. A-23

AS BUILT

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

SECOND FLOOR PLAN

Sherman-Carter-Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606 254-1351

JOB NO.	8706
DATE	10-1-87
DRAWN	WILSON/TUNE
CHECKED	JDC/CEB
FILE NO.	431.0

REVISIONS

1. FEB. 7, 1990
2. AS BUILT 2/18/91

SHEET

A•3

THIRD FLOOR PLAN

1/8" = 1'-0"

BLDG. NORTH

LEGEND

- (101) DOOR/FRAME NUMBER. REFER TO SCHED., SHT. A-33.
- 101 ROOM NUMBER. REFER TO FINISH SCHED., SHTS. A-31,A-32.
- (A) CURTAINWALL TYPE. REFER TO BLDG. ELEVATIONS & SHTS. A-35,A-36
- 1 WALL/PARTITION TYPE. REFER TO SCHED., SHT. A-23

AS BUILT

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

THIRD FLOOR PLAN

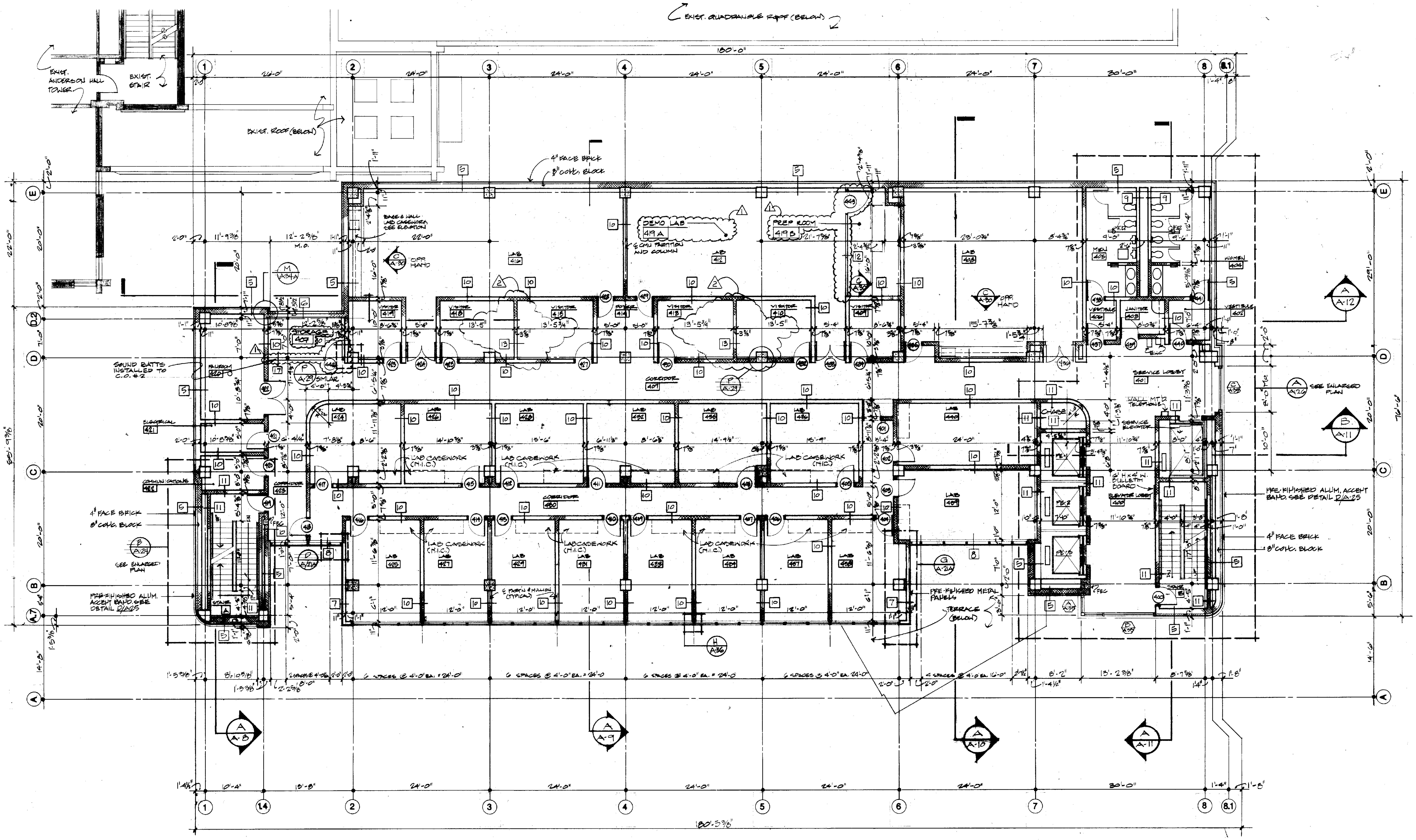
Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606-254-1351

JOB NO.	8706
DATE	10-1-87
DRAWN	STAFF
CHECKED	CEB
FILE NO.	431.0

REVISIONS
1 FEB. 7, 1990
2 AS BUILT 2-18-91

SHEET
A•4

Cab # 82 Slot C-1 Document # 1048306



FOURTH FLOOR PLAN

1/8" = 1'-0"

BLDG. NORTH

LEGEND

- 101 DOOR/FRAME NUMBER. REFER TO SCHED., SHT. A-33.
- 101 ROOM NUMBER. REFER TO FINISH SCHED., SHTS. A-31,A-32.
- A CURTAINWALL TYPE. REFER TO BLDG. ELEVATIONS & SHTS. A-35,A-36
- 1 WALL PARTITION TYPE. REFER TO SCHED., SHT. A-23

AS BUILT

SHERMAN CARTER BARNHART REGISTERED ARCHITECT COMMONWEALTH OF KENTUCKY

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by: director, design and construction division
date: 10-19-87

FOURTH FLOOR PLAN

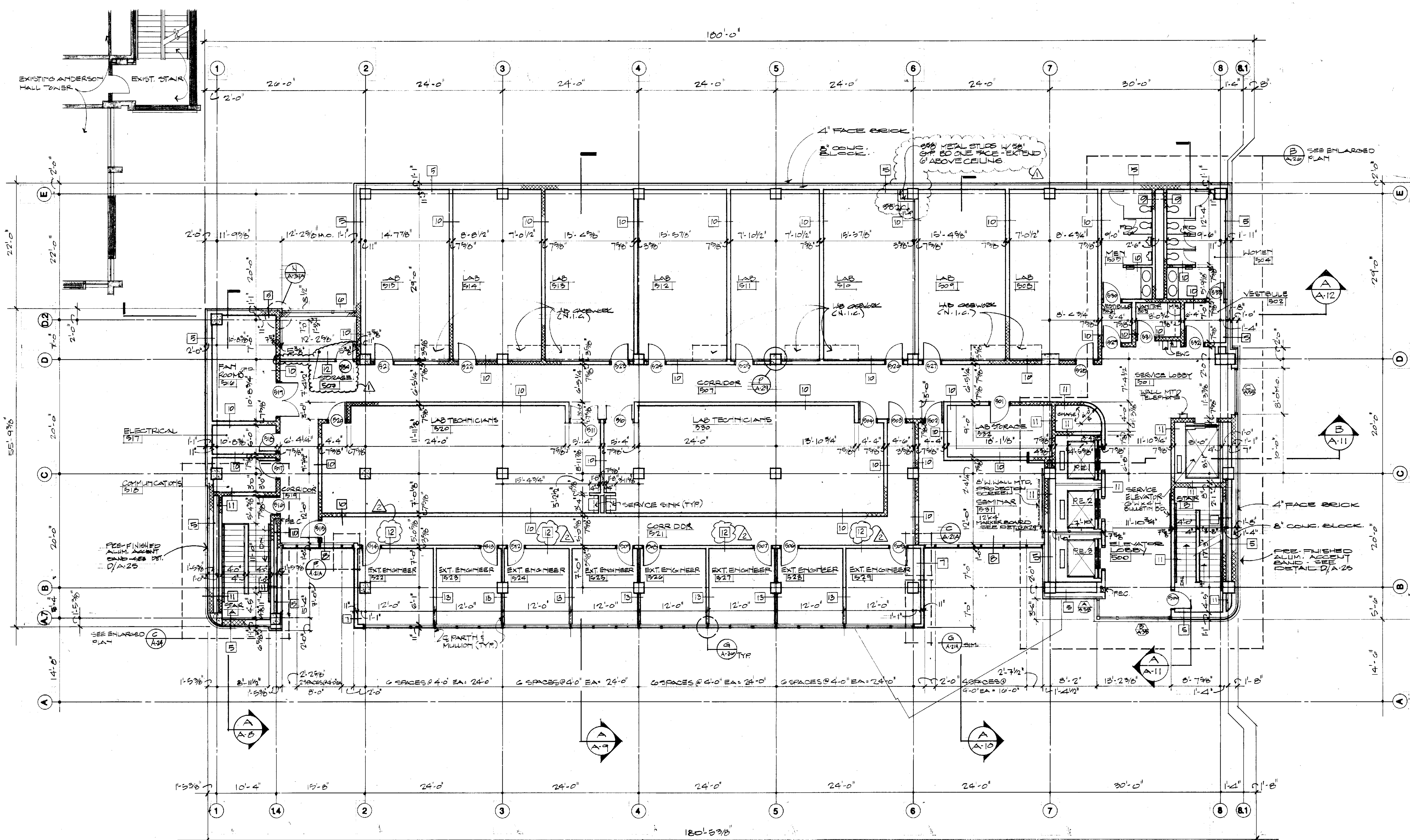
Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-1351

JOB NO.	8706
DATE	10-1-87
DRAWN	STAFF
CHECKED	CEB
FILE NO.	431.0

REVISIONS
1 FEB 7, 1990
2 AS BUILT 2/18/91

SHEET
A•5

Cab # 82 Slot C-1 Document # 004887



FIFTH FLOOR PLAN

1/8" = 1'-0"

BLDG. NORTH

LEGEND

(101)	DOOR/FRAME NUMBER. REFER TO SCHED., SHT. A-33.
[101]	ROOM NUMBER. REFER TO FINISH SCHED., SHTS. A-31,A-32.
(A)	CURTAINWALL TYPE. REFER TO BLDG. ELEVATIONS & SHTS. A-35,A-36
[1]—	WALL/PARTITION TYPE. REFER TO SCHED., SHT. A-23

AS BUILT

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

FIFTH FLOOR PLAN

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606-254-1351

JOB NO.	8706
DATE	10-1-87
DRAWN	STAFF
CHECKED	CEB
FILE NO.	431.0

REVISIONS

1 FEB. 7, 1990
2 AS BUILT 2/18/91

SHEET

A•6

Cab #	Slot	Document #
82	C-1	004888

PENTHOUSE / ROOF PLAN

1/8" = 1'-0"

BLDG. NORTH

DETAIL

1" = 1'-0"

LEGEND

- LIGHTING PROTECTION ROOF TERMINAL PER ELECT.

PENTHOUSE ROOF PLAN

1/8" = 1'-0"

AS BUILT

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by

director - design and construction division

10-9-87
date

PENTHOUSE AND ROOF PLANS

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-1351

JOB NO.	8705
DATE	10-9-87
DRAWN	STAFF
CHECKED	CEB
FILE NO.	431.0

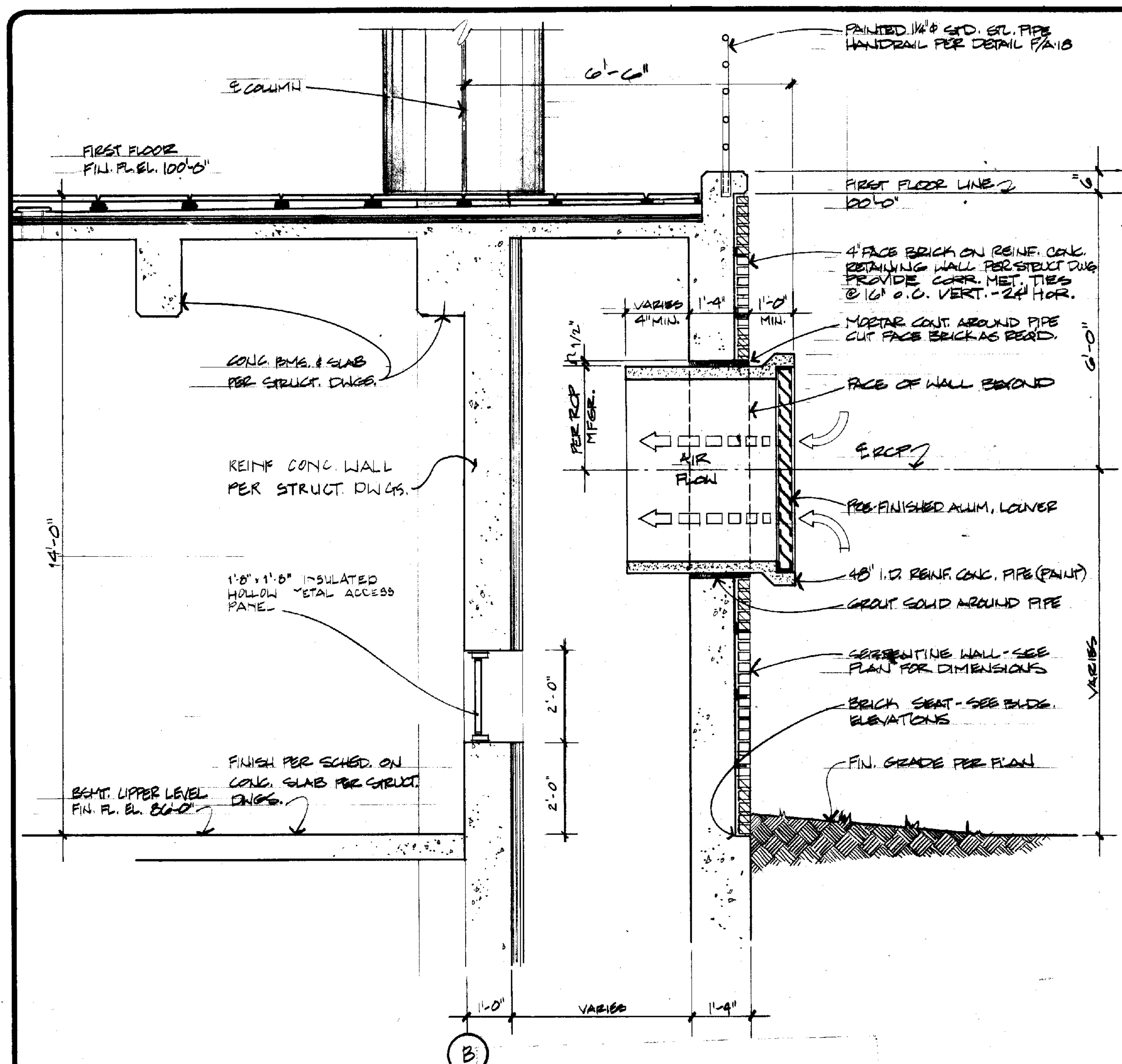
REVISIONS

⚠ FEB. 19, 1990

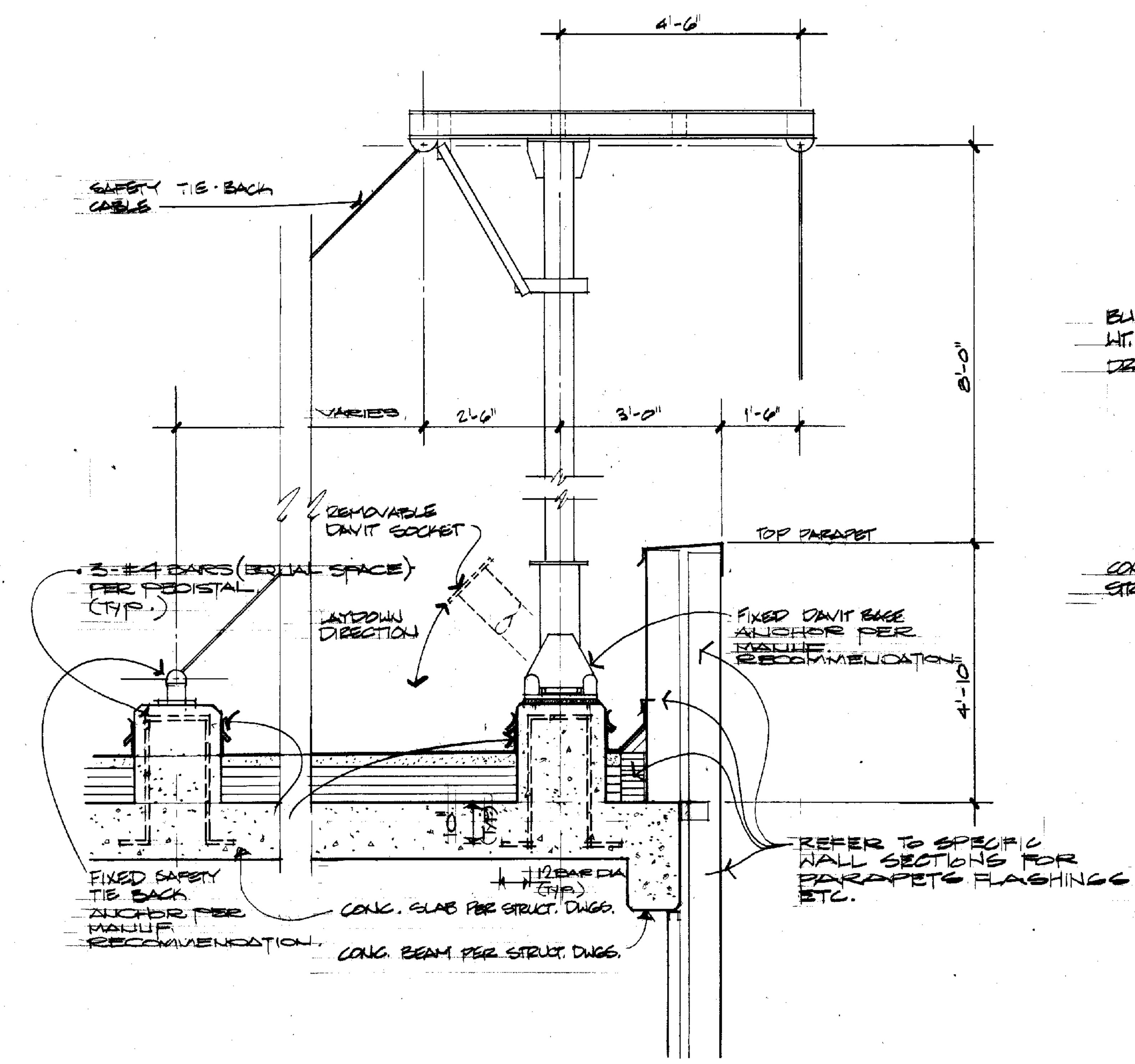
SHEET

A•7

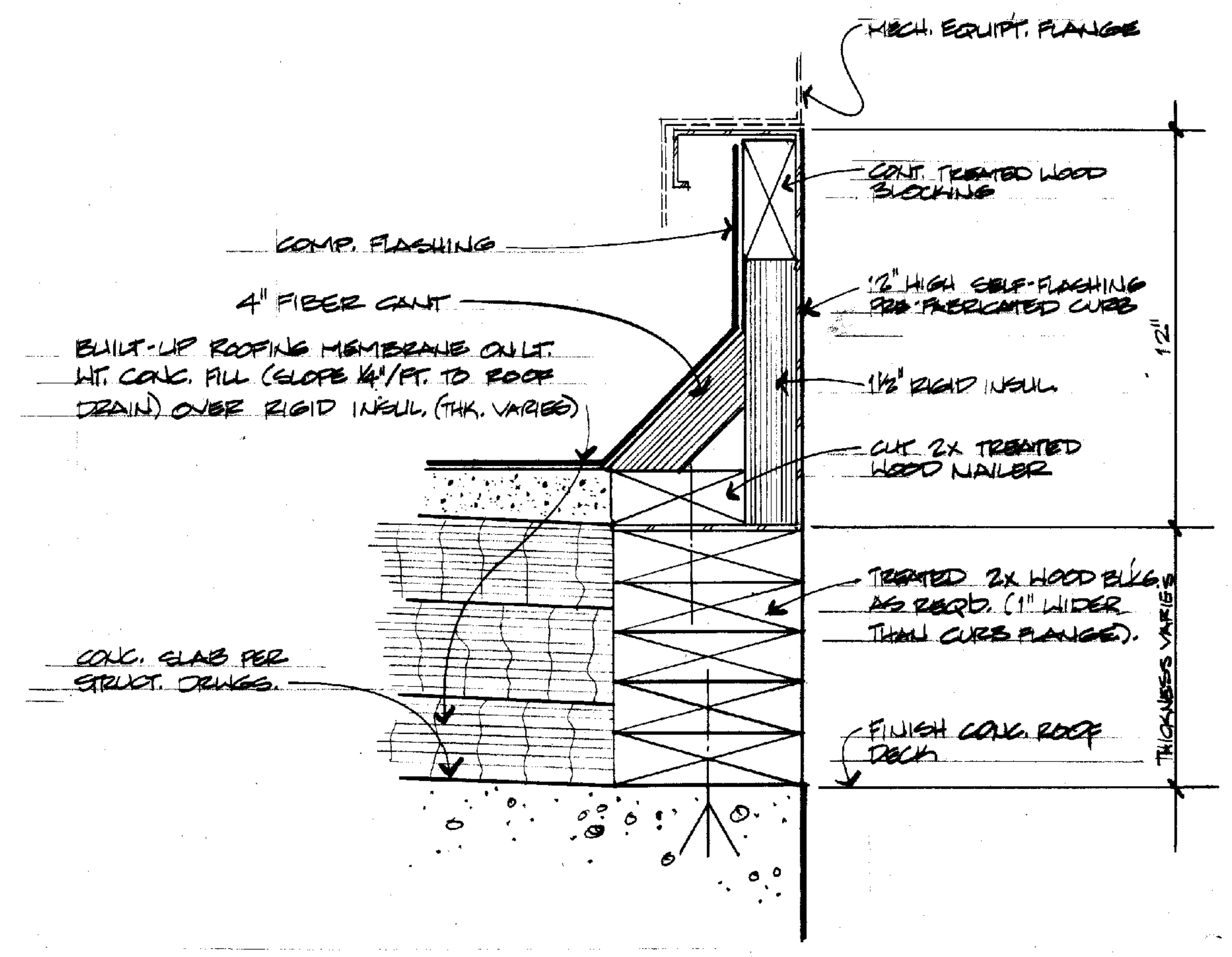
Cab # Shlf. Document # 003839 C-1



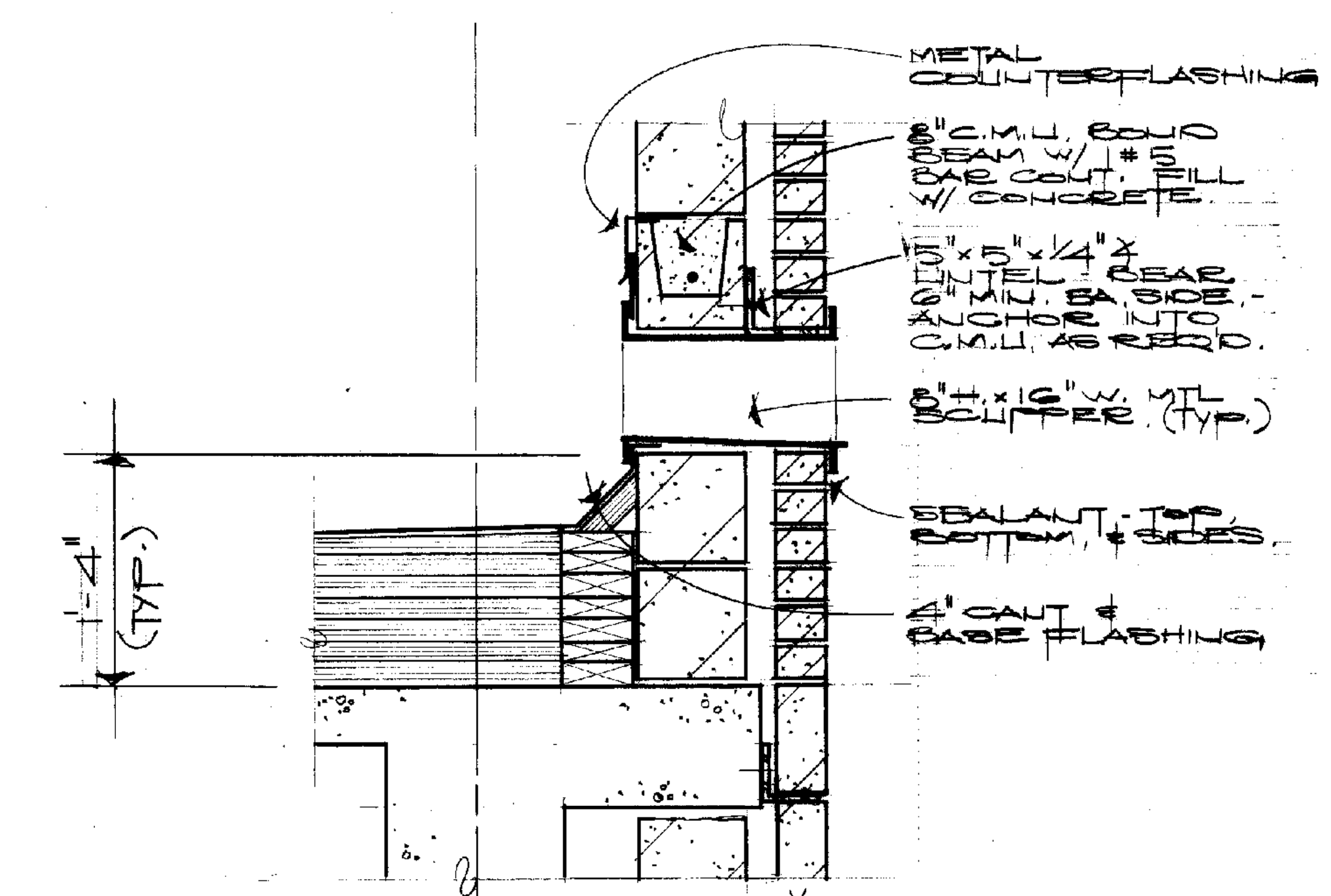
PIPE LOUVER DETAIL
½"=1'-0"
A / A•7A



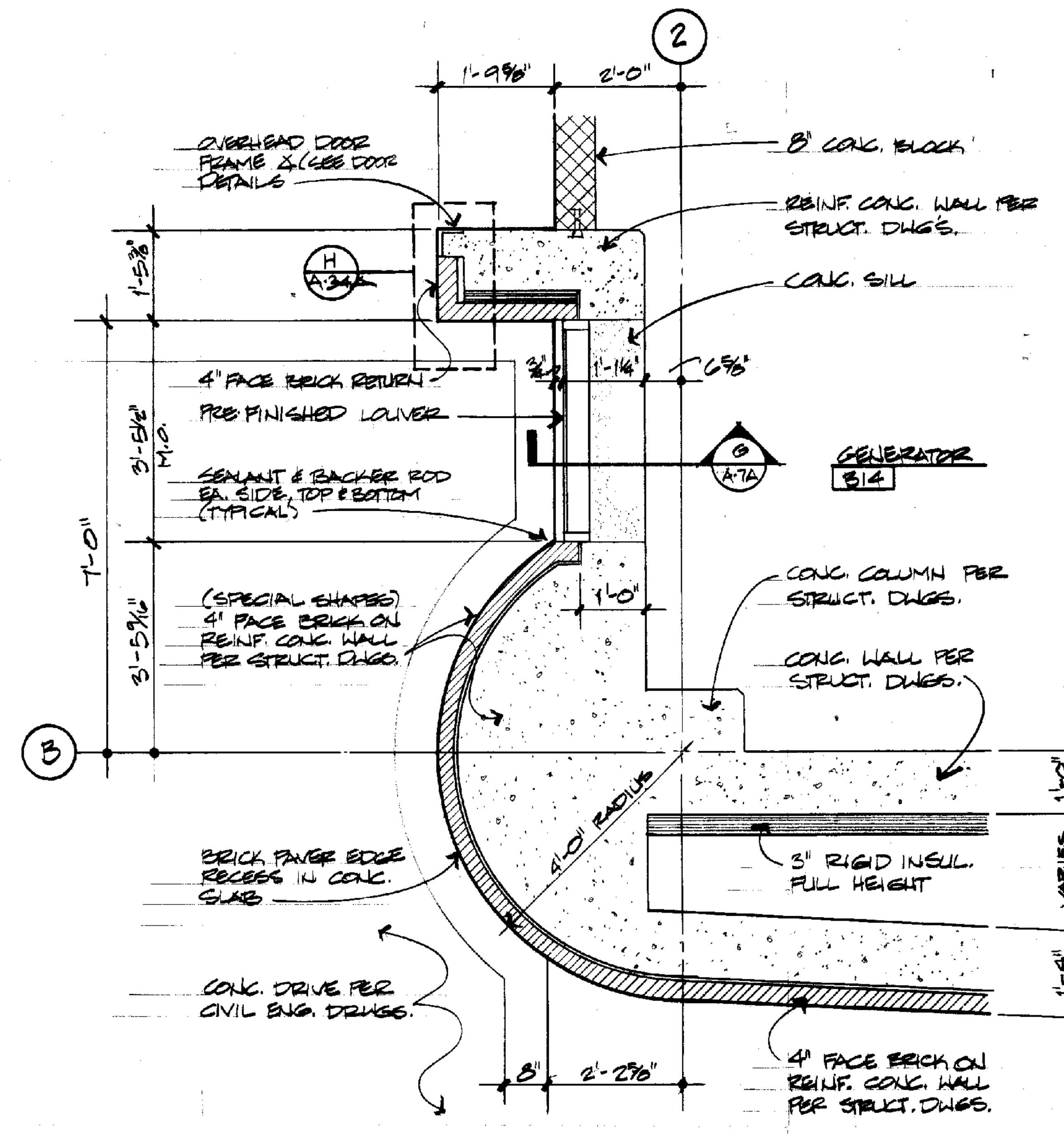
DAVIT DETAIL
½"=1'-0"
B / A•7A



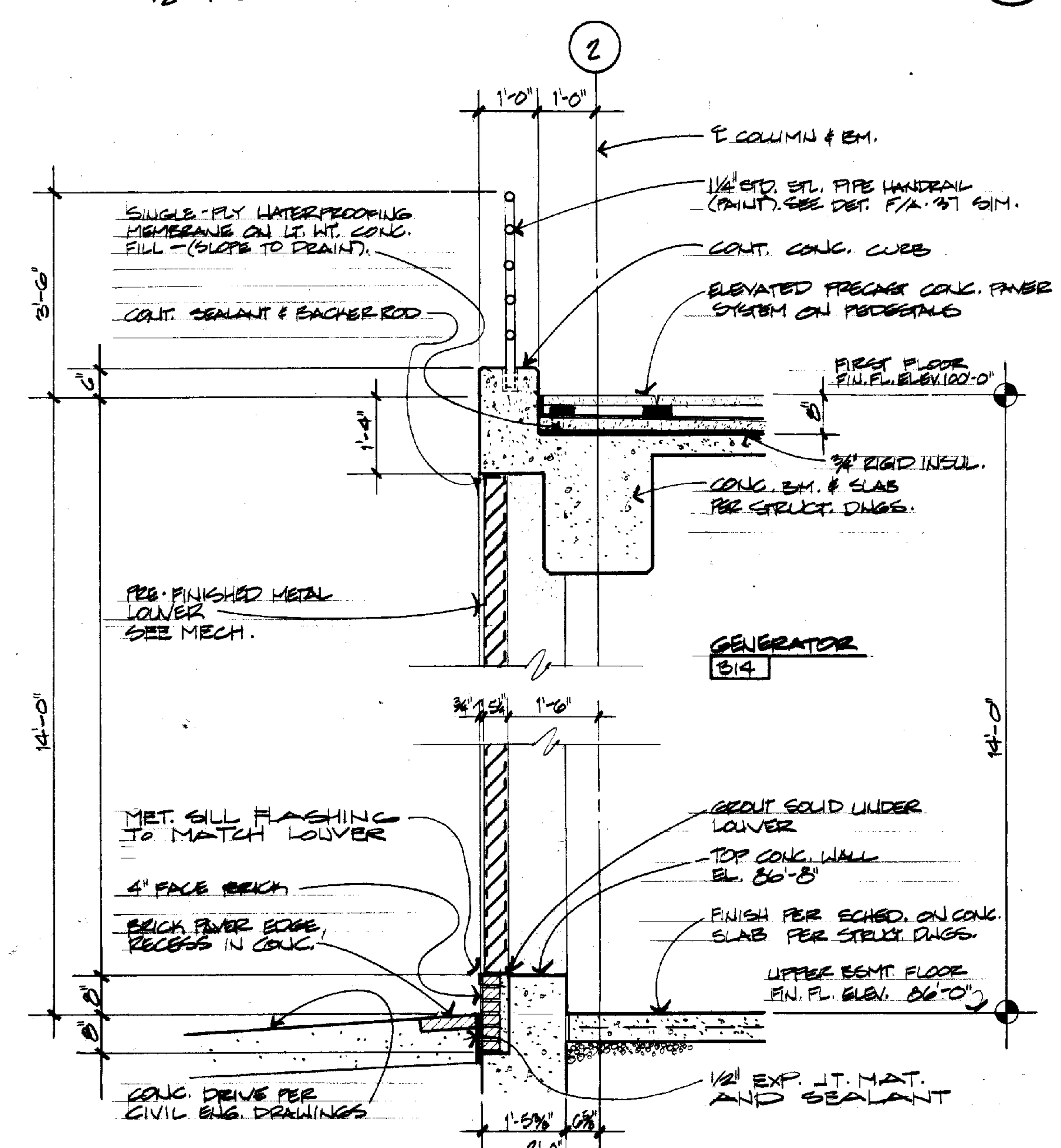
ROOF CURB DETAIL
3"=1'-0"
C / A•7A



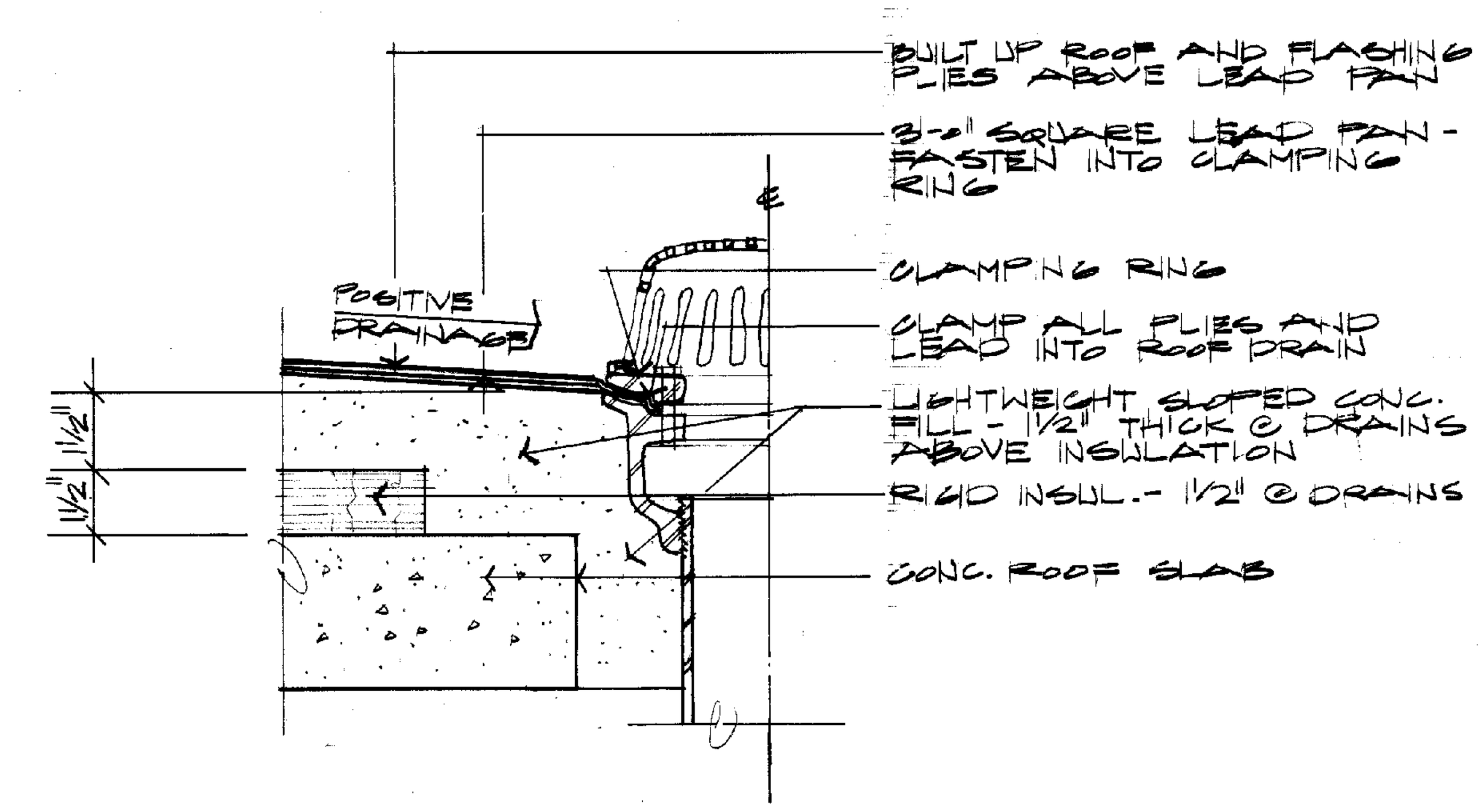
SCUPPER DETAIL
SCALE: 1"=1'-0"
H / A•7A



SERPENTINE WALL DETAIL
½"=1'-0"
F / A•7A



LOUVER DETAIL
⅛"=1'-0"
G / A•7A



ROOF DRAIN DETAIL
NOT TO SCALE
J / A•7A

REGISTERED ARCHITECT — SHERMAN CARTER BARNHART — COMMONWEALTH OF KENTUCKY

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved by — director design and construction division — date 10-19-87

SECTION AND DETAILS

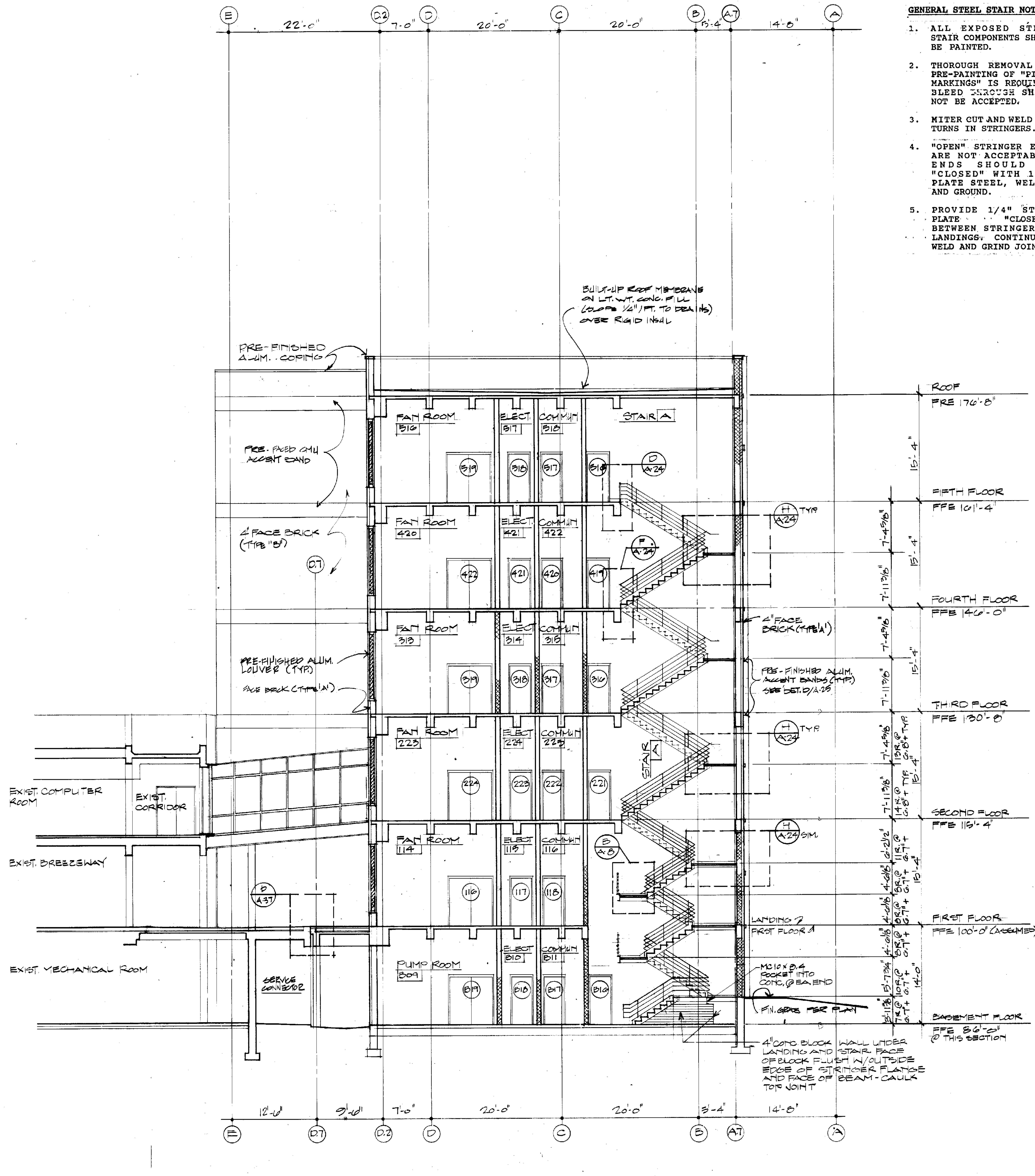
Sherman Carter Barnhart
PARTNERS IN ARCHITECTURE
1 LEXINGTON FINANCIAL CENTER · SUITE 1900 · 250 W. MAIN · LEXINGTON, KY 40507 · 606-254-1351

JOB NO.	8706
DATE	10-1-87
DRAWN	PRESTON
CHECKED	CEB
FILE NO. 431.0	

REVISIONS

SHEET
A•7A

Cab.# 82 Slot C-1 Document # 004890



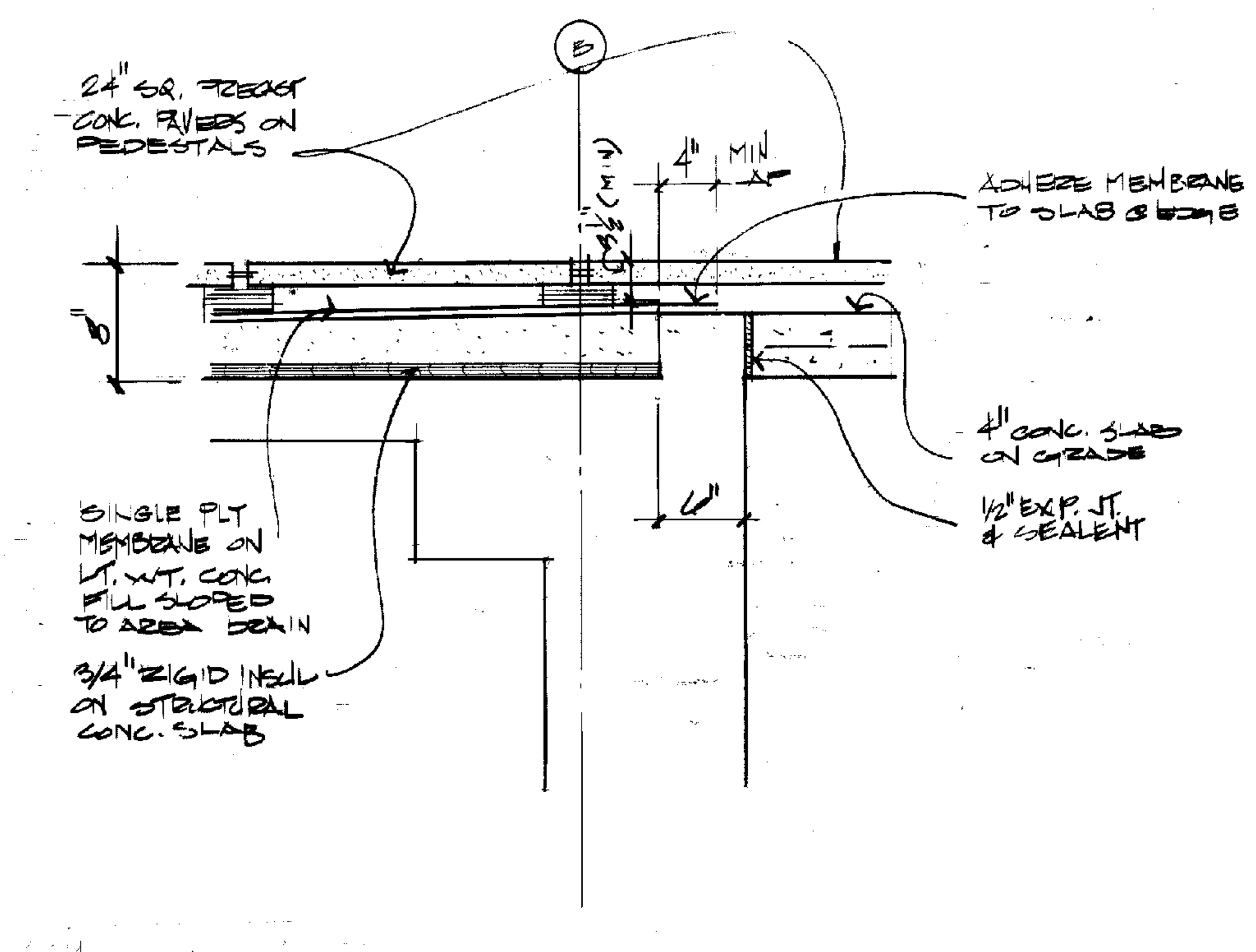
BUILDING SECTION

1/8" = 1'-0"

A / A-8

GENERAL STEEL STAIR NOTES

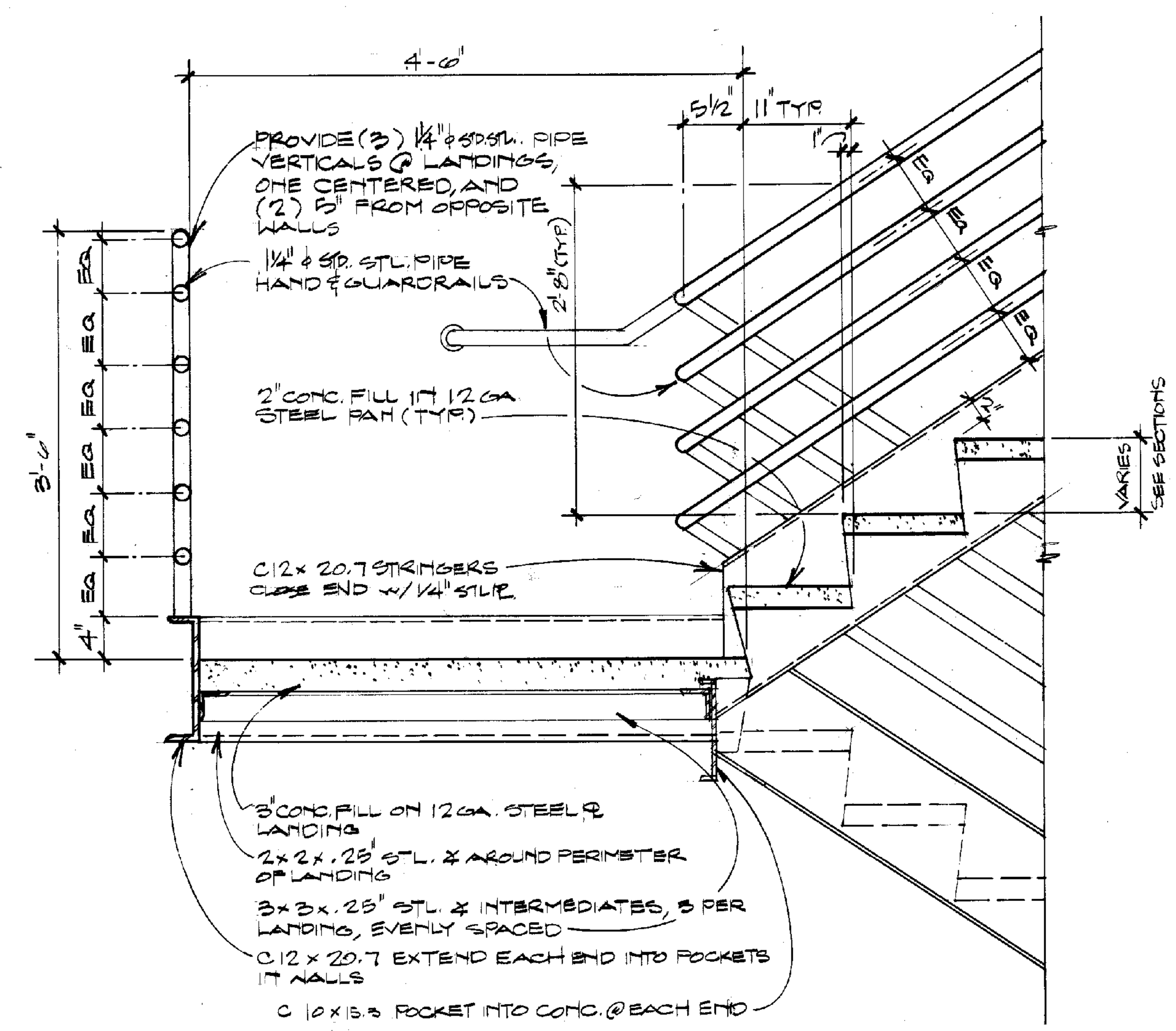
1. ALL EXPOSED STEEL STAIR COMPONENTS SHALL BE PAINTED.
2. THOROUGH REMOVAL OR PRE-PAINTING OF "PIECE MARKINGS" IS REQUIRED. BLEED THROUGH SHALL NOT BE ACCEPTED.
3. MITER CUT AND WELD ALL TURNS IN STRINGERS.
4. "OPEN" STRINGER ENDS ARE NOT ACCEPTABLE, ENDS SHOULD BE "CLOSED" WITH 1/4" PLATE STEEL, WELDED AND GROUND.
5. PROVIDE 1/4" STEEL PLATE "CLOSERS" BETWEEN STRINGERS @ LANDINGS. CONTINUOUS WELD AND GRIND JOINTS.



DETAIL

1" = 1'-0"

C / A-8



LANDING DETAIL

1" = 1'-0"

B / A-8

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by: director, design and construction division — date 10.19.87

BUILDING SECTION

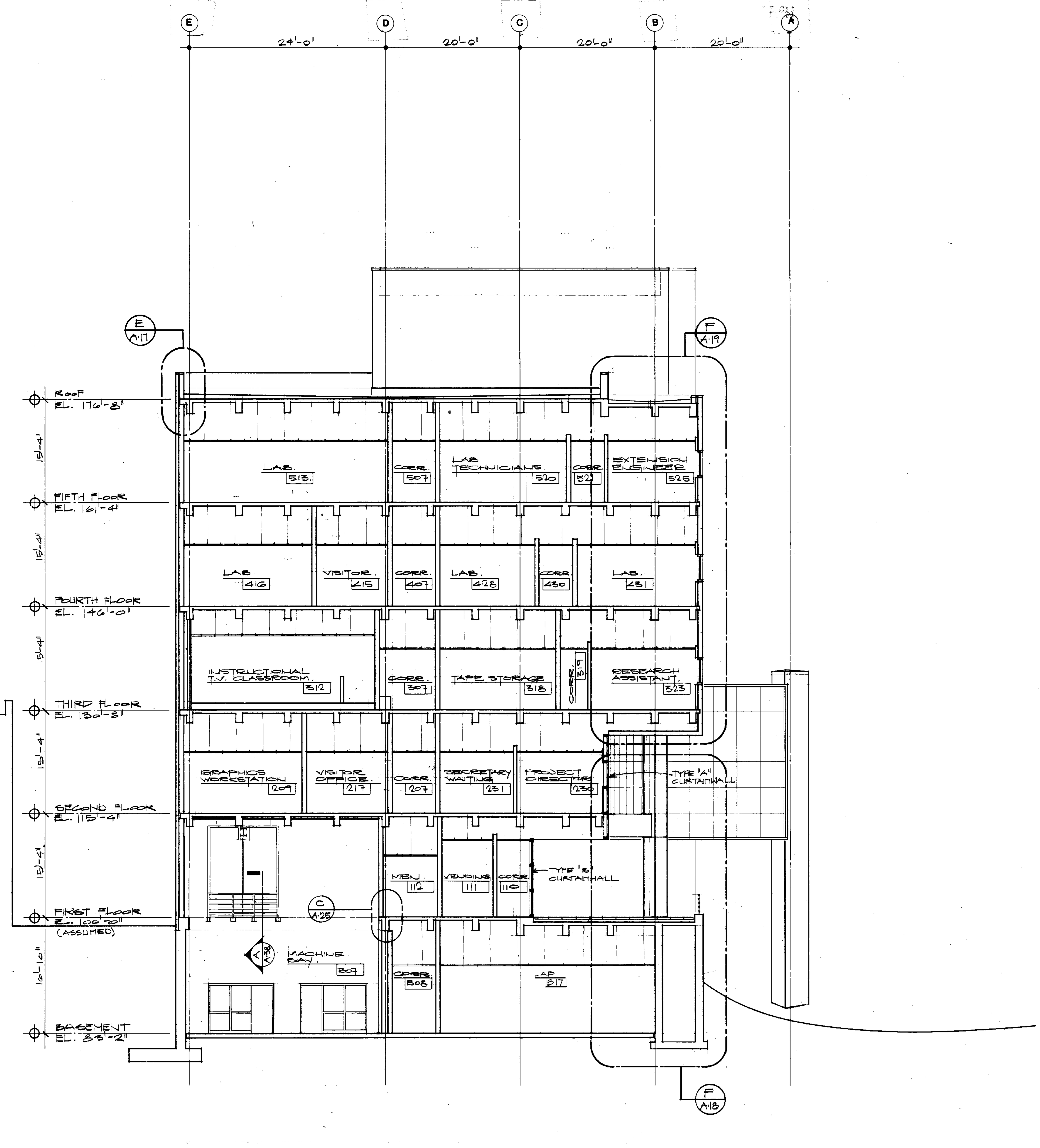
Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-1351

JOB NO.	8706
DATE	10-1-87
DRAWN	STAFF
CHECKED	CEB
FILE NO.	431.0

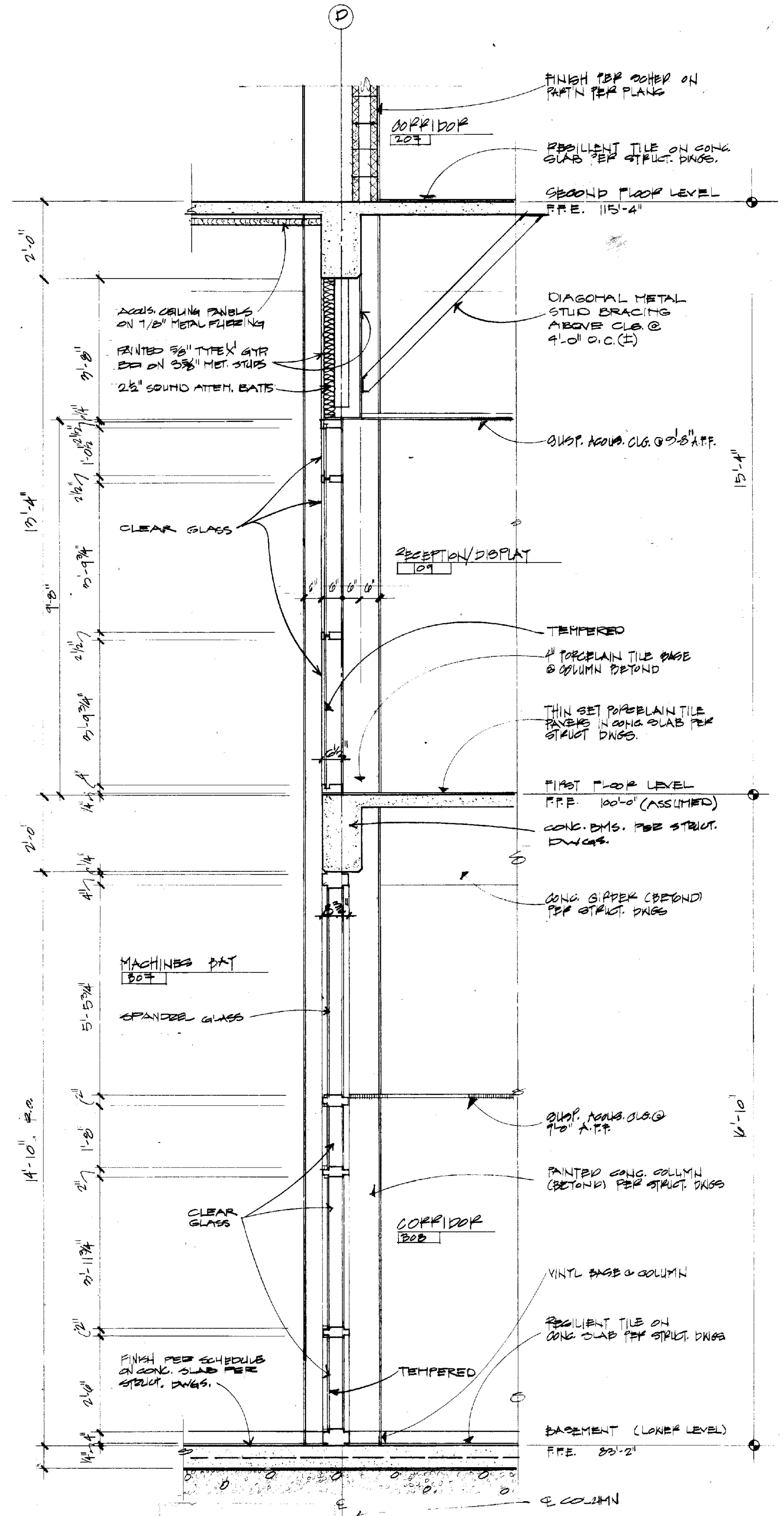
REVISIONS

SHEET

A•8



BUILDING SECTION
1/8"=1'-0"
A / A·9



SECTION
1/2"=1'-0"
B / A·9

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved by
director · design and construction division
10.19.87

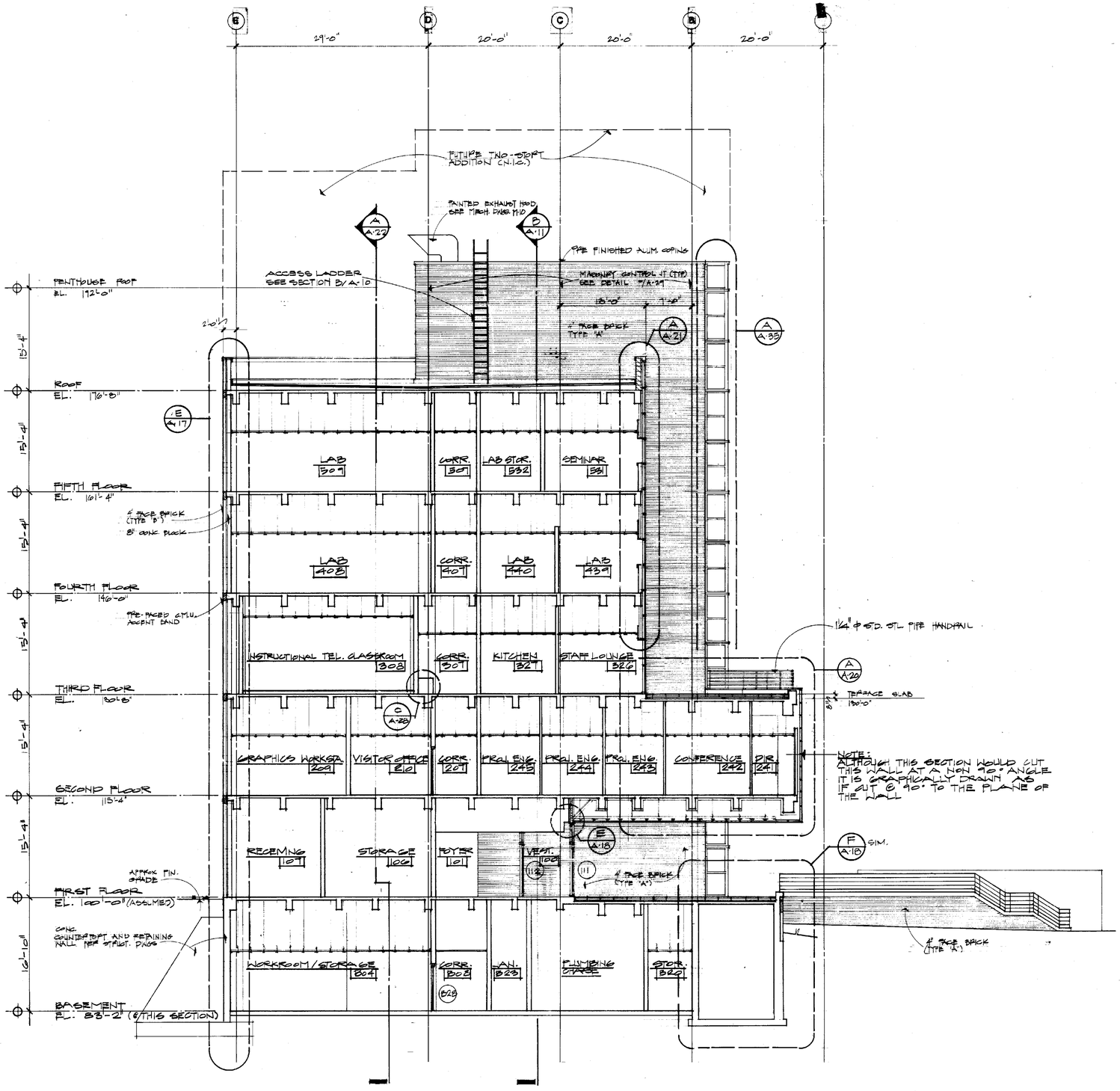
BUILDING SECTION

Sherman · Carter · Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-1351

JOB NO.	8706
DATE	10-1-87
DRAWN	STAFF
CHECKED	CEB
FILE NO.	431.0

REVISIONS

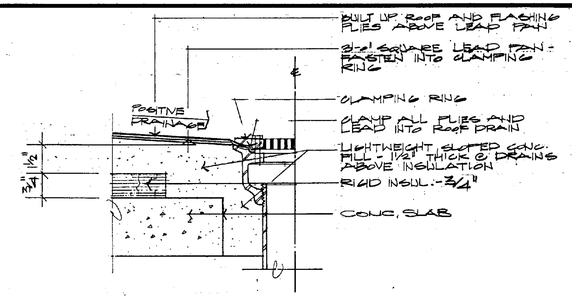
SHEET
A•9



BUILDING SECTION

1/8" = 1'-0"

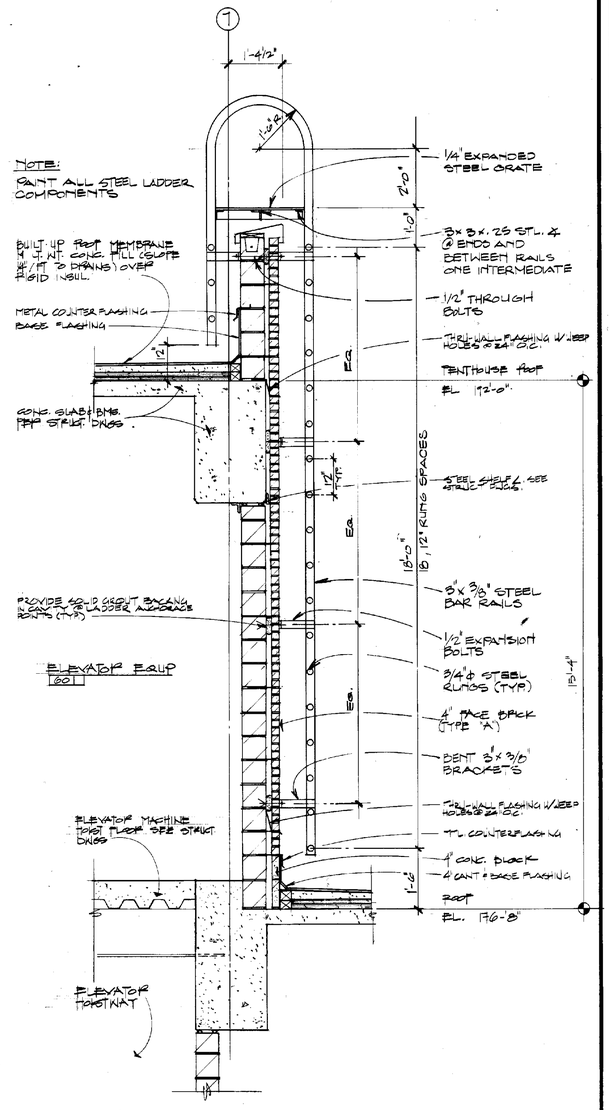
A / A-10



TERRACE AREA DRAIN

NOT TO SCALE.

C / A-10



LADDER SECTION

1/2" = 1'-0"

B / A-10

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

BUILDING SECTION

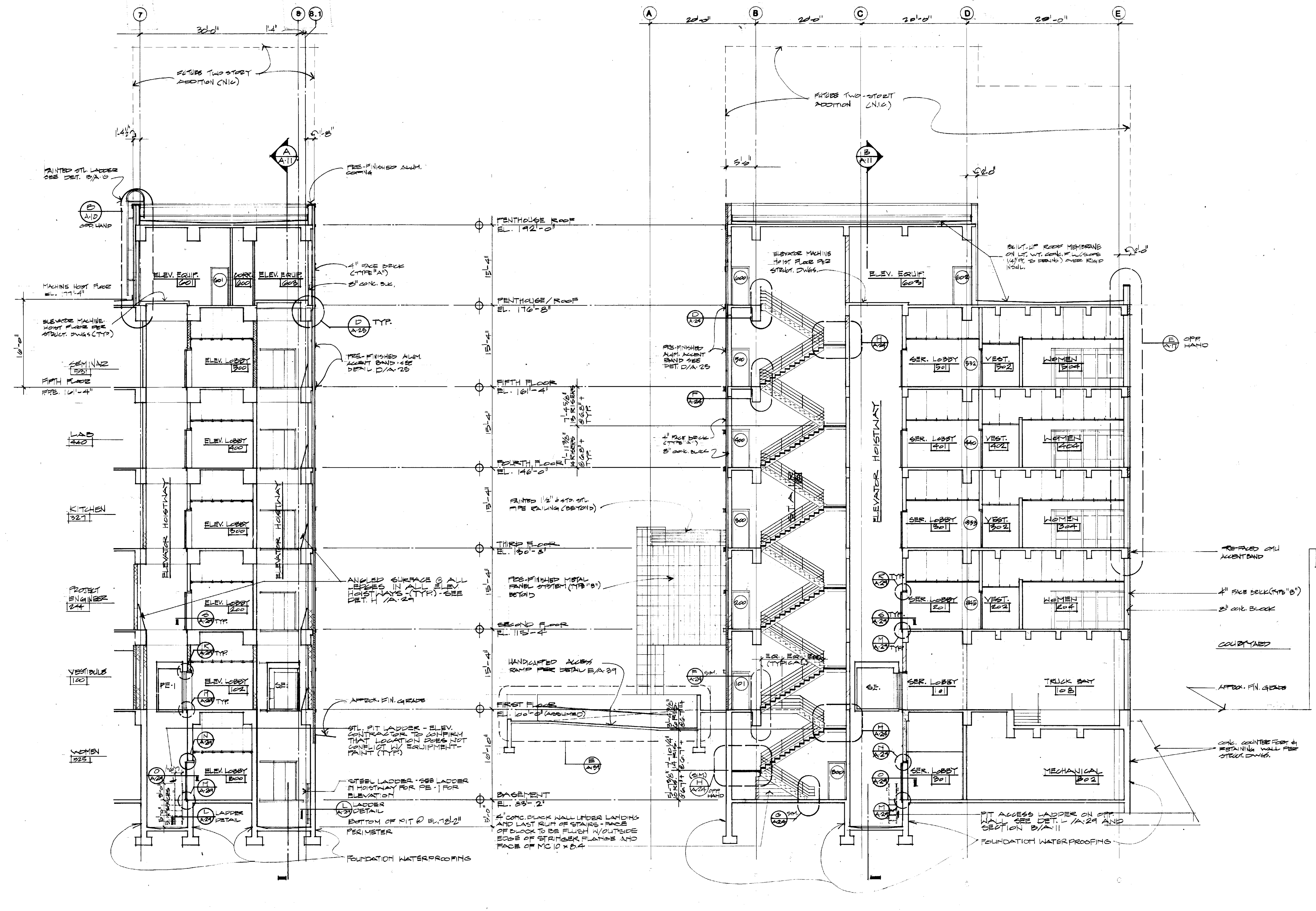
Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606-254-1351

JOB NO.	8706
DATE	10-1-87
DRAWN	STAFF
CHECKED	CEB
FILE NO.	431.0

REVISIONS

SHEET A•10

Cab.# Slot Document # 043893
82 C-1



PARTIAL BUILDING SECTION
1/8" = 1'-0" (B / A·11)

BUILDING SECTION
1/8" = 1'-0" (A / A·11)

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

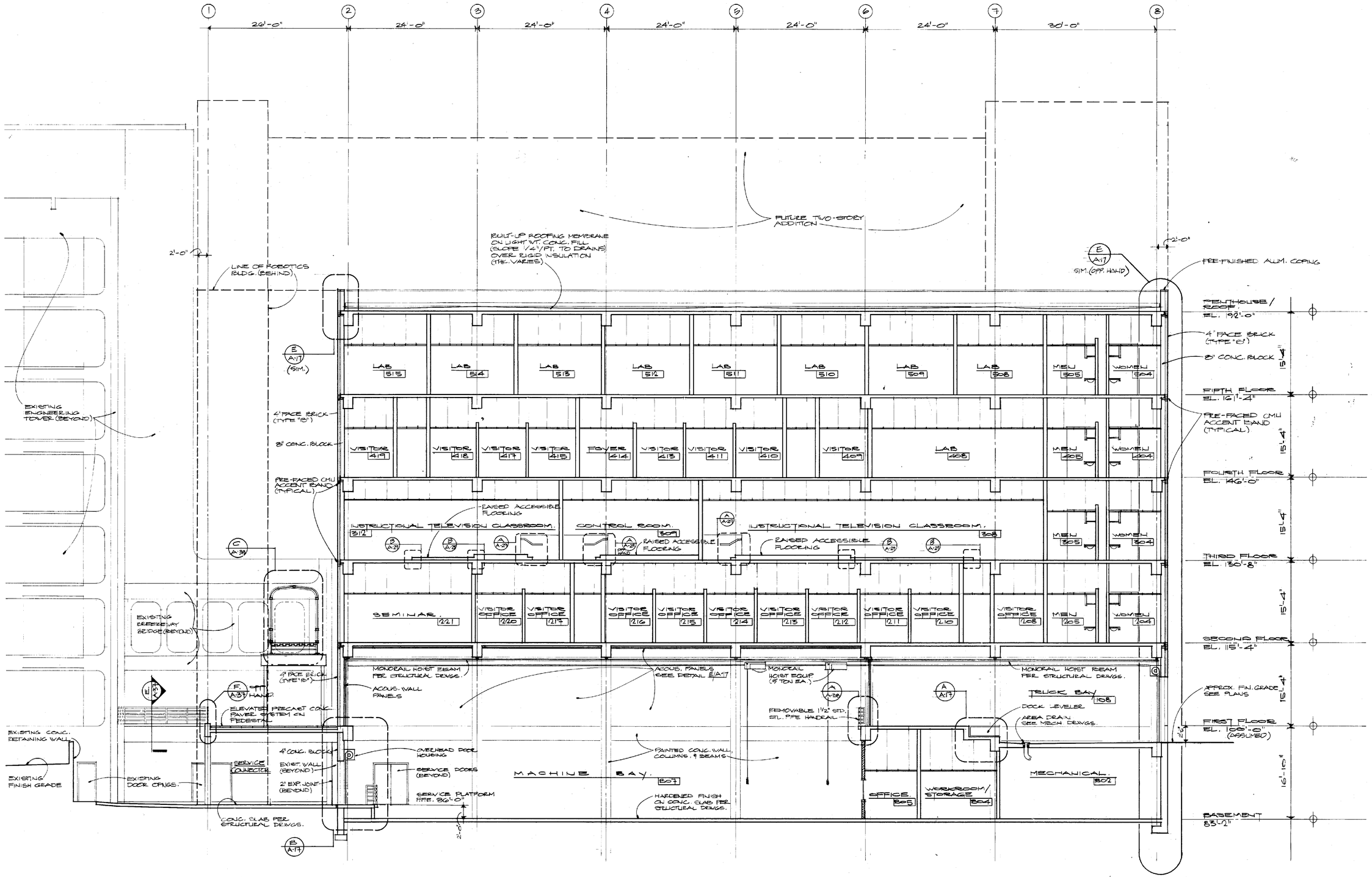
BUILDING SECTIONS

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606·254·1351

JOB NO.	8708
DATE	10-1-87
DRAWN	DEW/THORNE
CHECKED	CEB
FILE NO.	431.0

REVISIONS

SHEET
A•11



BUILDING SECTION

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

A / A.12

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
LEXINGTON FINANCIAL CENTER - SUITE 1900 - 250 W. MAIN - LEXINGTON, KY 40507 - 606 254 1551

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by
director - design and construction division
10-1-87
date

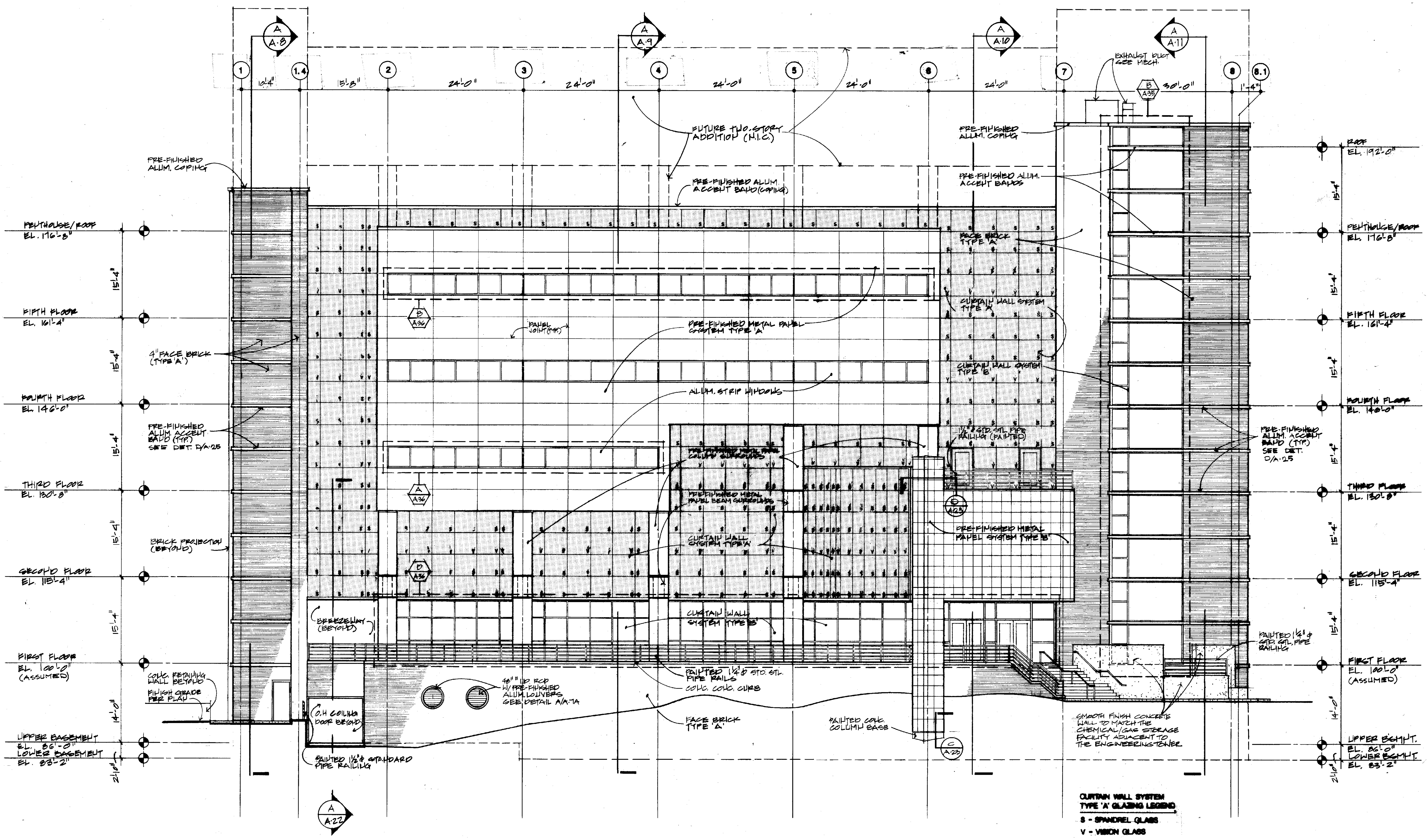
BUILDING SECTION

JOB NO.	87.00
DATE	10-1-87
DRAWN	CEW.
CHECKED	CPB.
FILE NO.	421.0

REVISIONS

SHEET
A•12

Cab.# 82 Slot C-1 Document # 0018395



SOUTH ELEVATION

1/8" = 1'-0"

SHERMAN CARTER BARNHART ARCHITECTS (seal)

ROBOTICS FACILITY

LEXINGTON CAMPUS

UNIVERSITY OF KENTUCKY

LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by: [signature] 8.13.92

SOUTH ELEVATION

Sherman Carter Barnhart

PARTNERS IN ARCHITECTURE

LEXINGTON FINANCIAL CENTER · SUITE 1900 · 250 W MAIN · LEXINGTON, KY 40507 · 606-254-1351

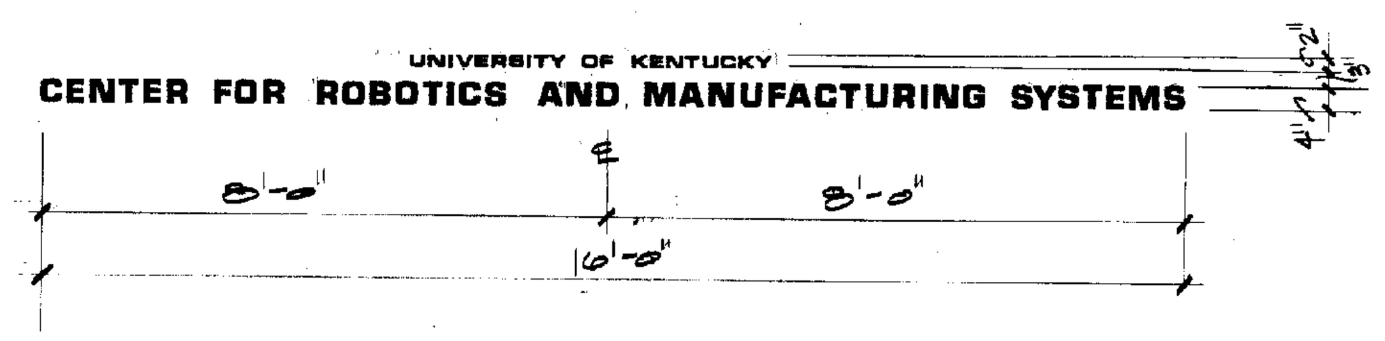
JOB NO.	6706
DATE	10-1-87
DRAWN	TUNE
CHECKED	CEB
FILE NO.	431.0

REVISIONS

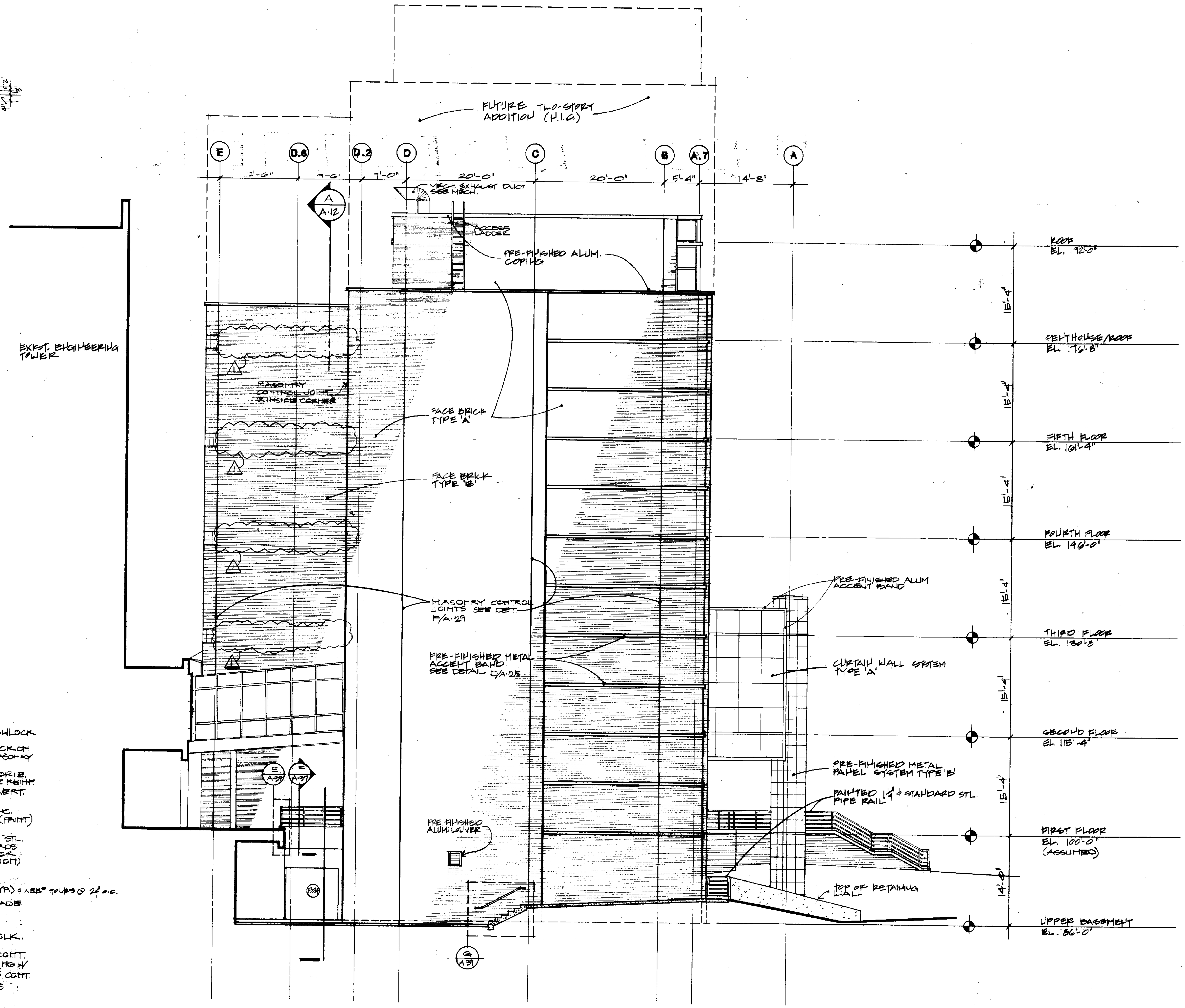
SHEET

A•13

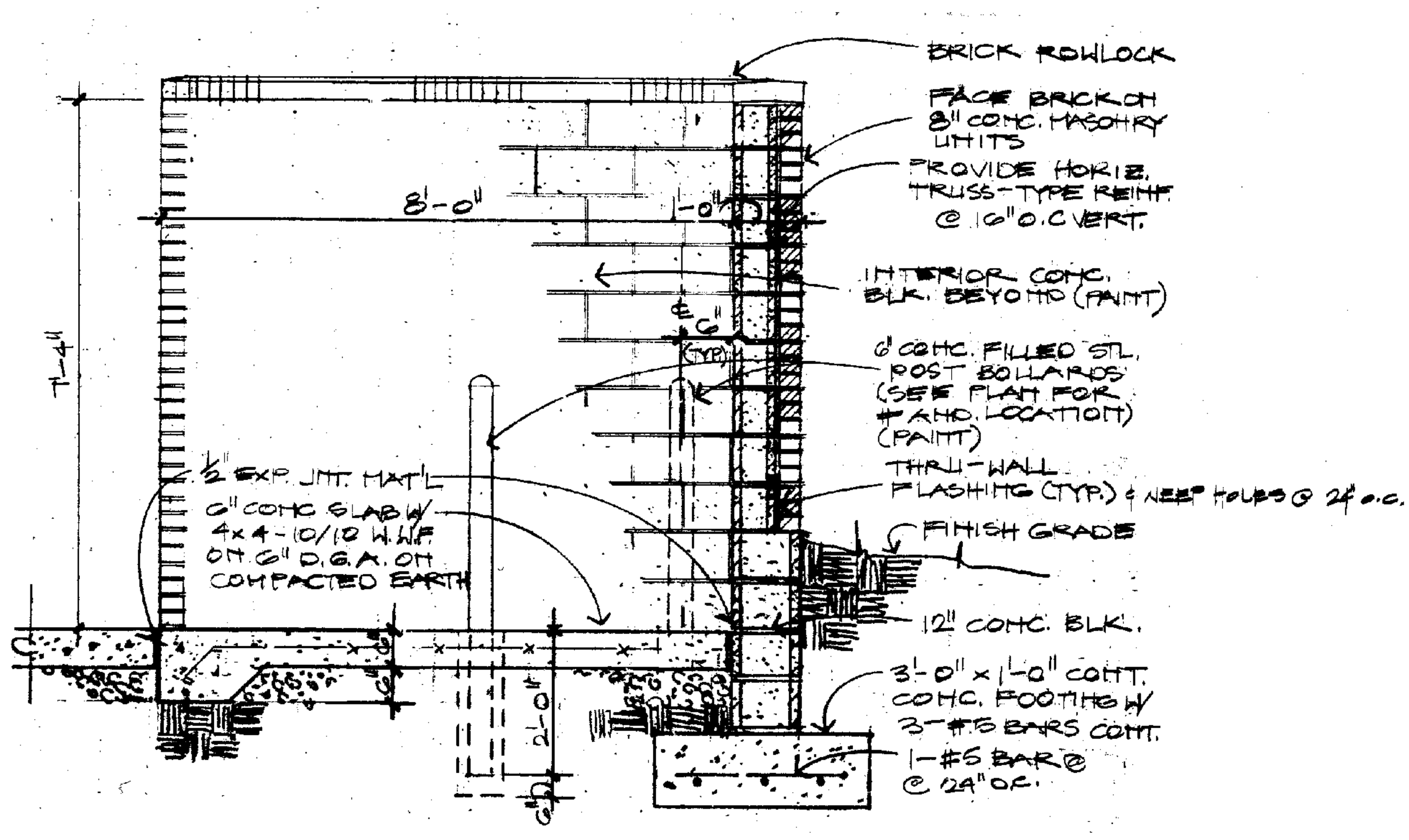
Cab # 82 | Slot C-1 | Document # 6048896



BUILDING SIGN
SCALE: 3/8" = 1'-0"



WEST ELEVATION
1/8" = 1'-0"



DETAIL
1/2" = 1'-0"

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by director design and construction division
date 10.19.87

WEST ELEVATION

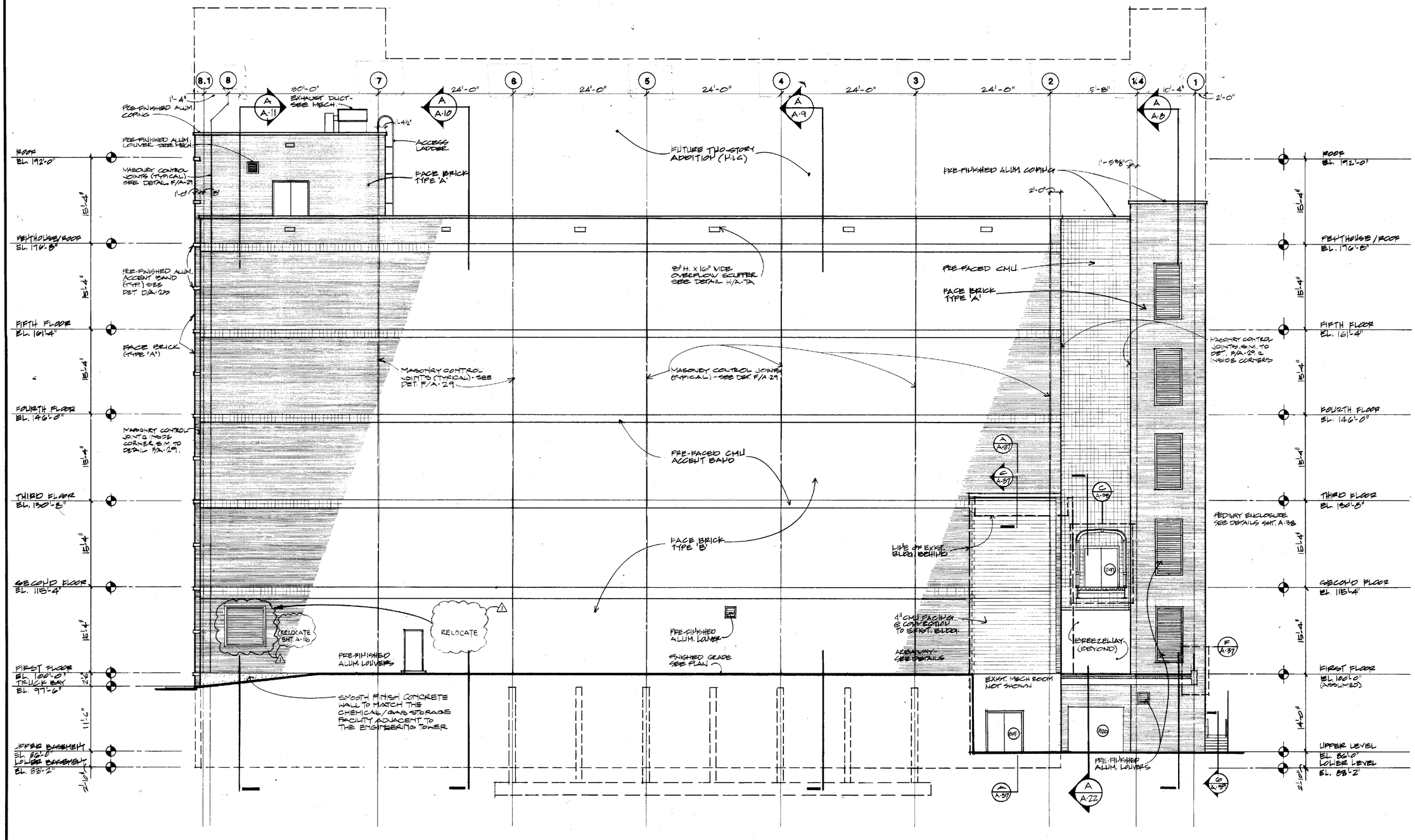
Sherman Carter Barnhart
PARTNERS IN ARCHITECTURE
LEXINGTON FINANCIAL CENTER • SUITE 1900 • 250 W. MAIN • LEXINGTON, KY 40507 • 606-254-1351

JOB NO.	8706
DATE	10-1-87
DRAWN	TUNE
CHECKED	CEB
FILE NO.	431.0

REVISIONS
AS BUILT 2/18/91

SHEET
A•14

Cab.# 82 Slot C-1 Document # 031897



NORTH ELEVATION

1/8"= 1'-0"

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

NORTH ELEVATION

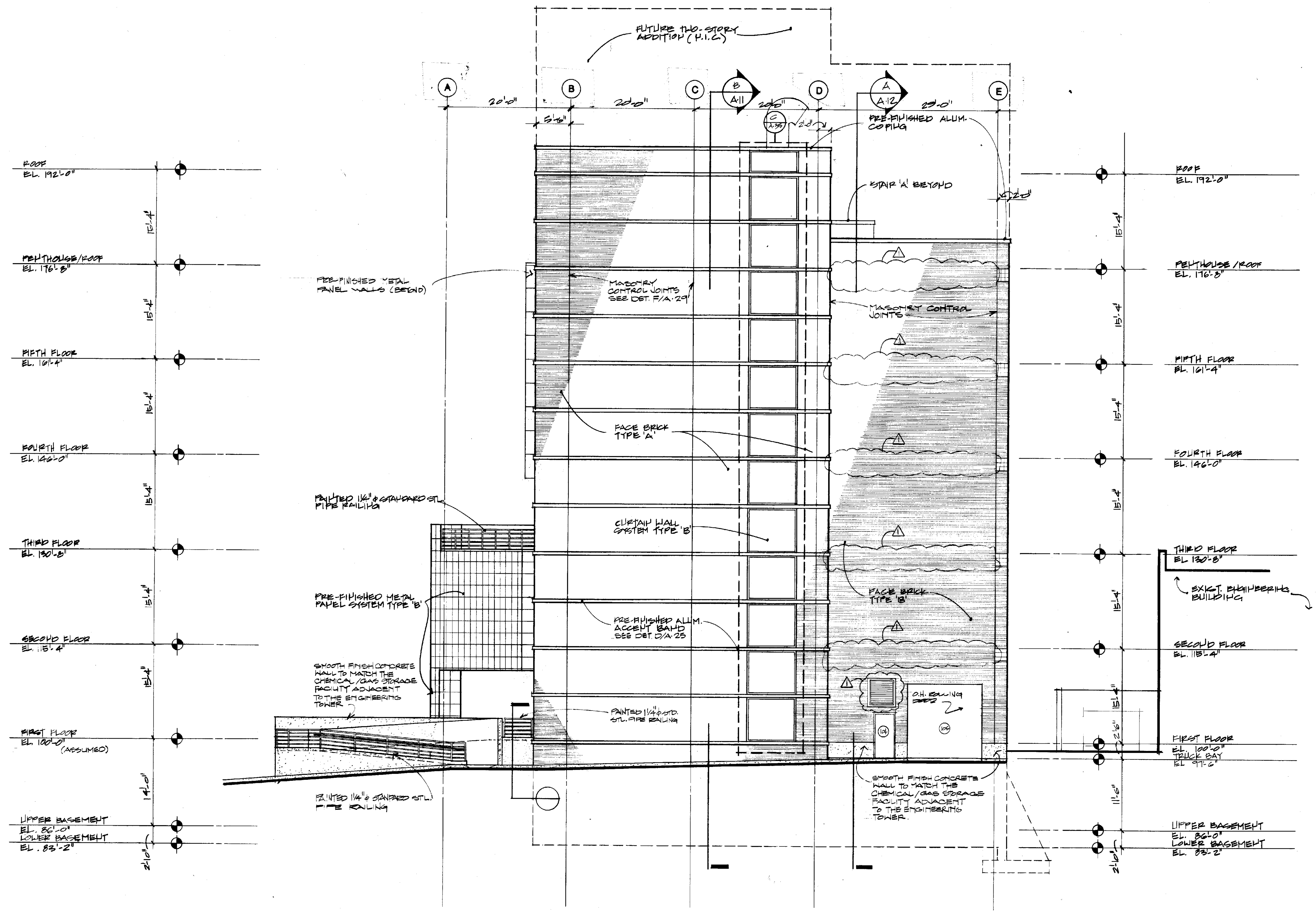
Herman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
LEXINGTON FINANCIAL CENTER - SUITE 1900 - 250 W. MAIN - LEXINGTON, KY 40507 - 606-254-1151

JOB NO.	8706
DATE	10-1-87
DRAWN	TUNE
CHECKED	CEB
FILE NO.	431.0

REVISIONS
1 AS BUILT 2/18/91

SHEET
A•15

Cab # 82 Shlf C-1 Document # 0018958



EAST ELEVATION

1/8" = 1'-0"

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

10.19.87

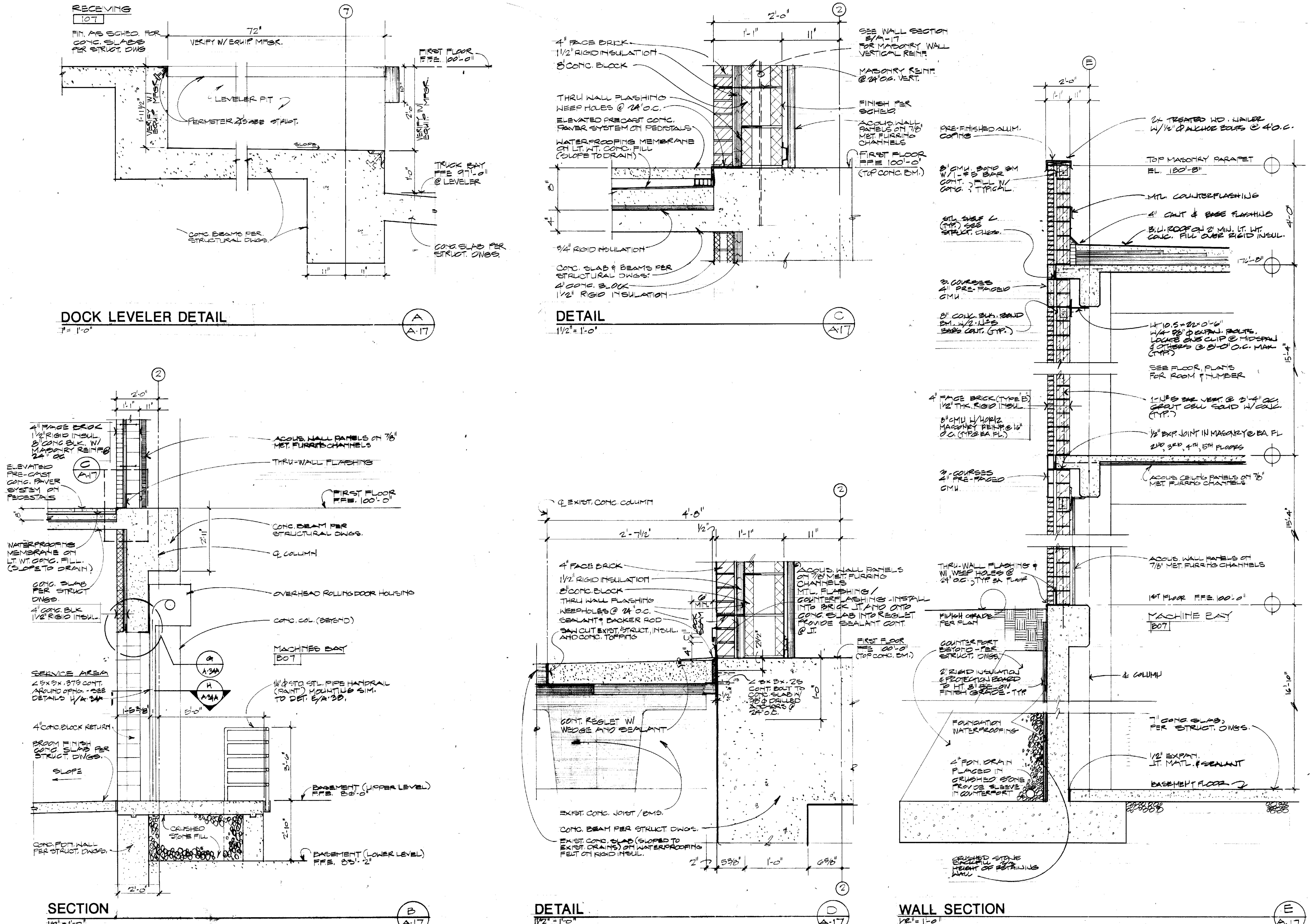
EAST ELEVATION

Sherman · Carter · Barnhart
PARTNERS IN ARCHITECTURE

JOB NO.	8706
DATE	10-1-87
DRAWN	TUNE
CHECKED	CEB
FILE NO.	431.0

REVISIONS
1 AS BUILT 2/18/91

SHEET
A•16



ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
10-15-87

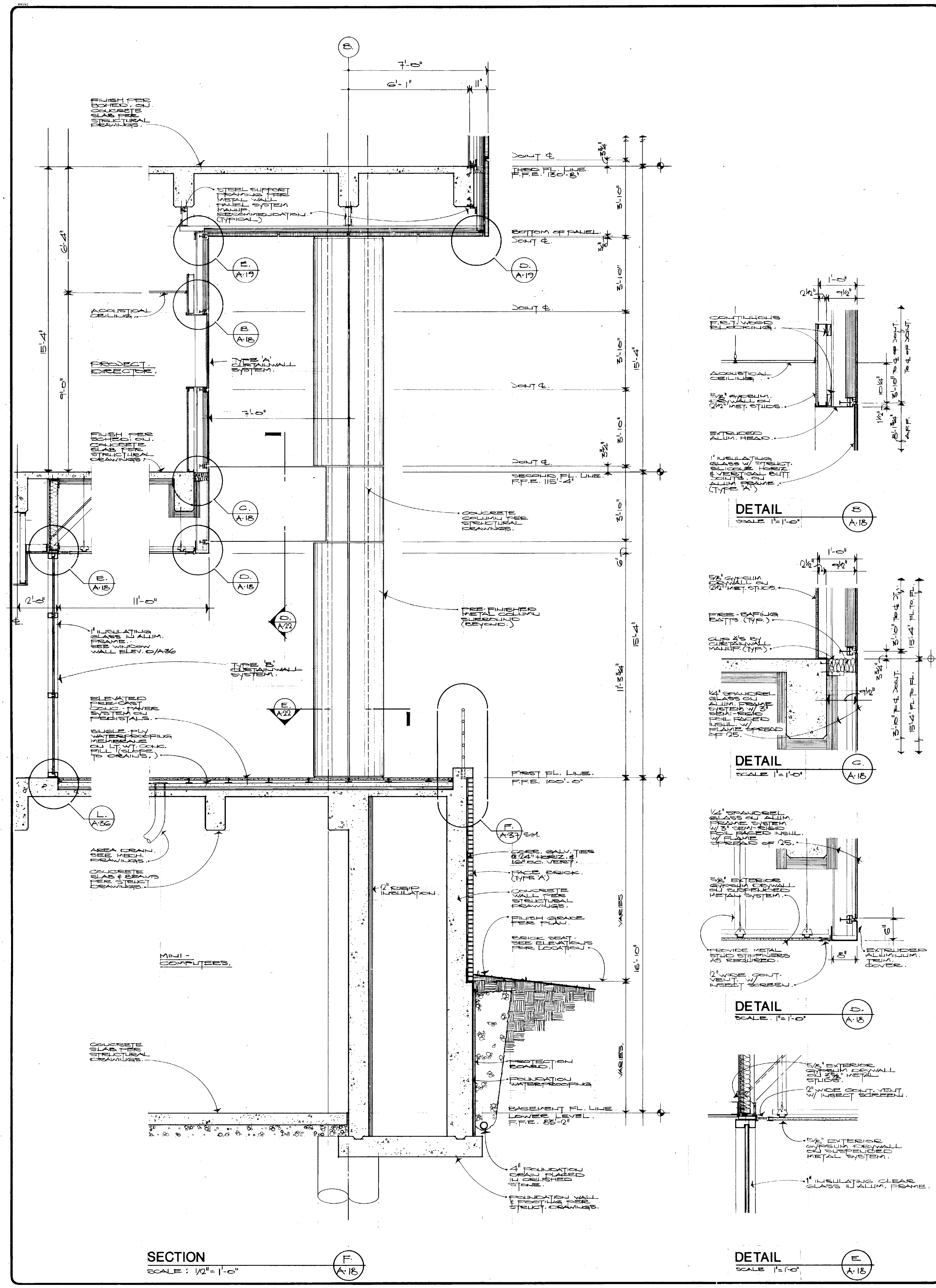
WALL SECTIONS AND DETAILS

Sherman · Carter · Barnhart
PARTNERS IN ARCHITECTURE

JOB NO.	8706
DATE	10-1-87
DRAWN	STAFF
CHECKED	CEB
FILE NO.	431.0

REVISIONS

SHEET
A•17



SHEET	A•18
REVISIONS	
JOB NO.	8706
DATE	10-1-87
DRAWN	DEW.
CHECKED	CEB
FILE NO.	431.0

Cab # 82 Slot C-1 Document # 004901

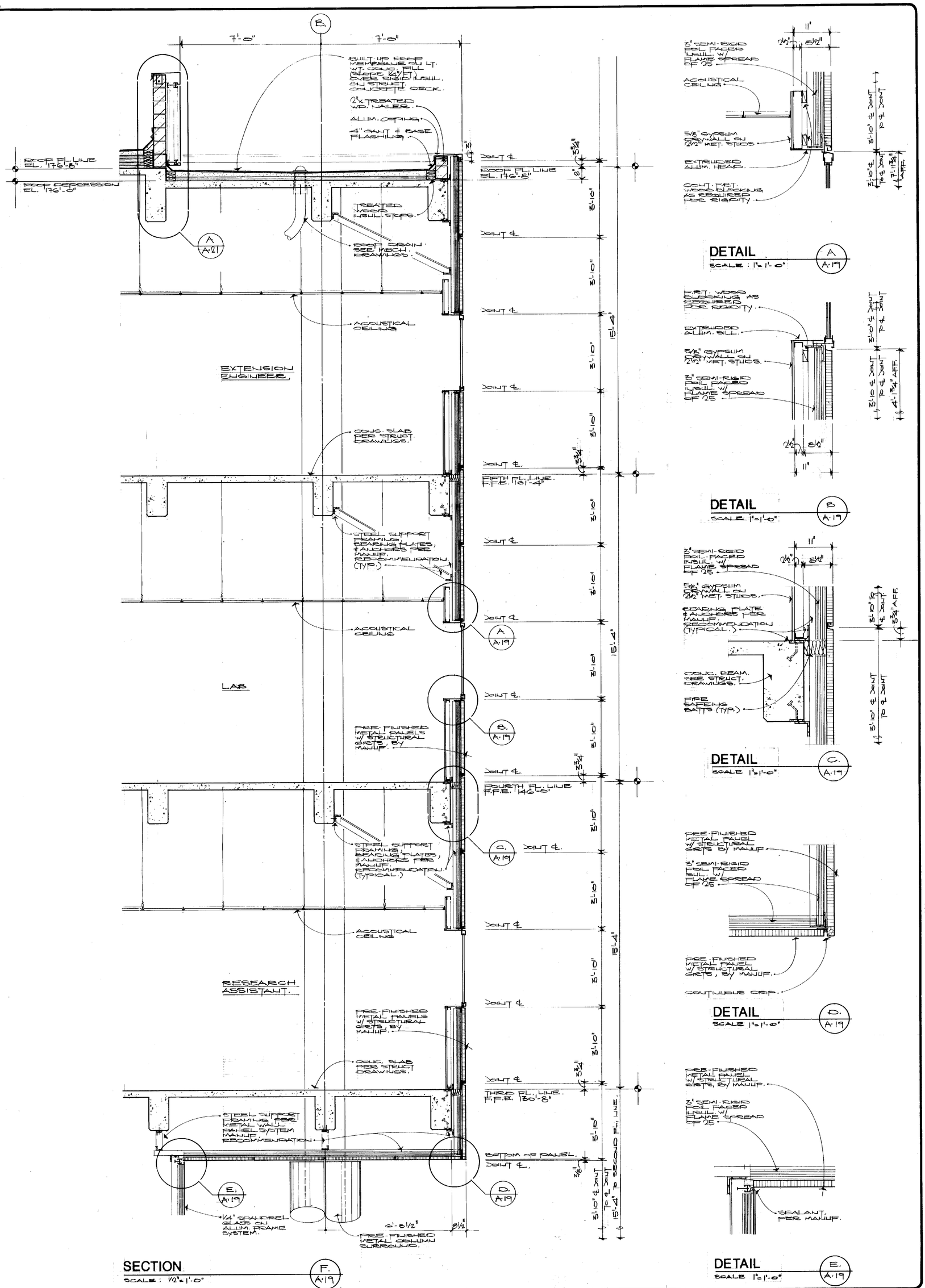
WALL SECTIONS AND DETAILS

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-1351

University of Kentucky
Lexington, Kentucky

approved by [signature] director · design and construction division 10-19-87 date

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY



SHEET A•19

REVISIONS

JOB NO. 8706
DATE 10-1-87
DRAWN PEW
CHECKED CEB
FILE NO. 431.0

WALL SECTIONS AND DETAILS

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
LEXINGTON FINANCIAL CENTER • SUITE 1900 • 250 W. MAIN • LEXINGTON, KY 40507 • 606-254-1351

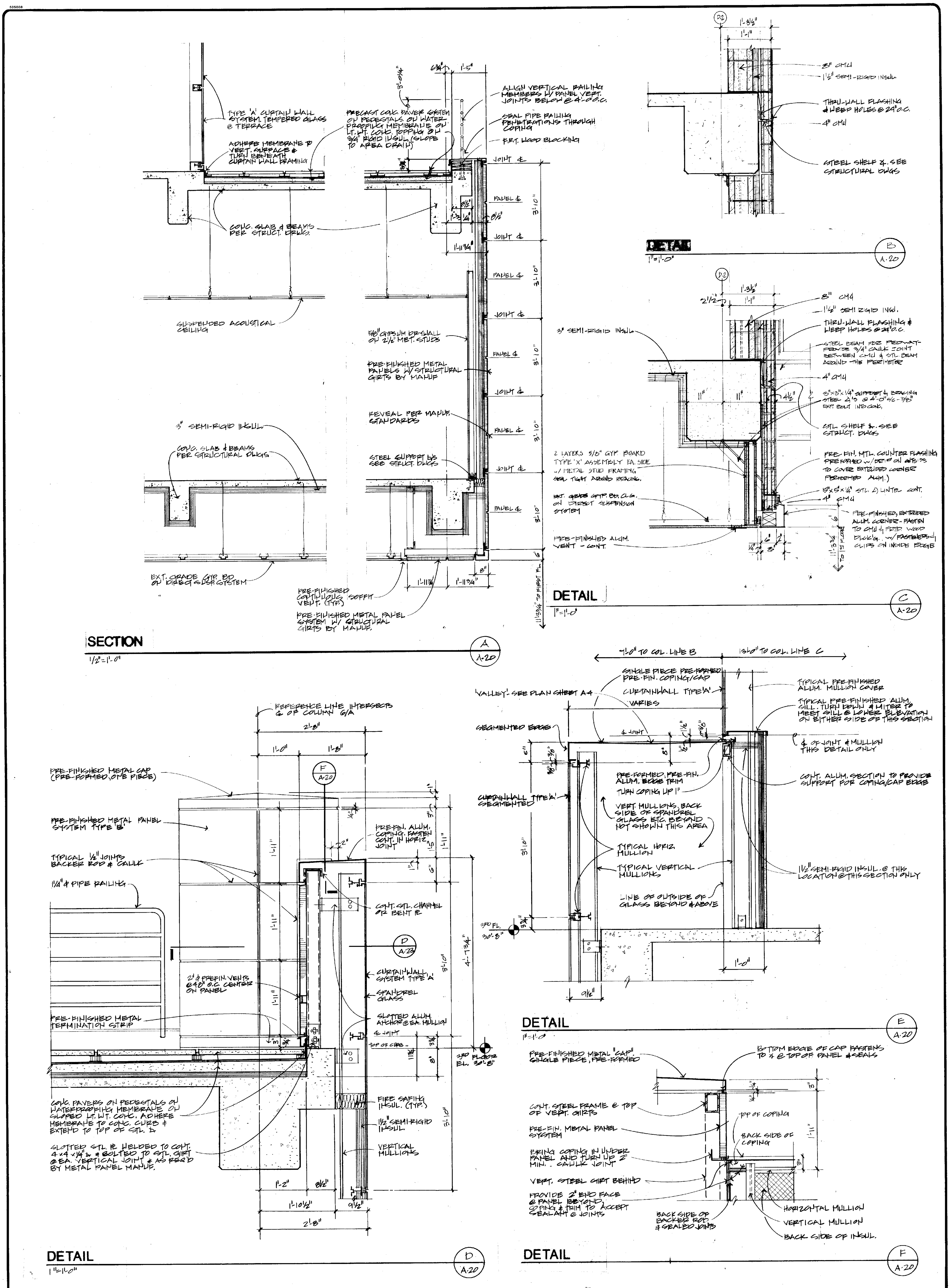
University of Kentucky
Lexington, Kentucky

approved by _____ director design and construction division
10-19-87 date

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

SHERMAN-CARTER-BARNHART REGISTERED NO. 1802-2096-2509 COMMONWEALTH OF KENTUCKY ARCHITECTS

Cab # 82 Slot C-1 Document # 004902


TYPE 'A' CURTAIN WALL SYSTEM TEMPERED GLASS @ TERRACE
ADHERE MEMBRANE TO VERT. SURFACE & TURN BENEATH CURTAIN WALL FRAMING
CONC. SLAB & BEAMS PER STRUCT. DWGS.
SUSPENDED ACOUSTICAL CEILING
3" SEMI-RIGID INSUL.
CONC. SLAB & BEAMS PER STRUCTURAL DWGS
EXT. GRADE GYP. BD. ON DIRECT SUSP. SYSTEM
PRECAST CONC. PAVER SYSTEM ON PEDESTALS ON WATERPROOFING MEMBRANE ON LT. WT. CONC. TOPPING ON 3/4" RIGID INSUL. (SLOPE TO AREA DRAIN)
ALIGN VERTICAL RAILING MEMBERS W/ PANEL VERT. JOINTS BELOW @ 4'-0" O.C.
SEAL PIPE RAILING PENETRATIONS THROUGH COPING
F.R.T. WOOD BLOCKING
5/8" GYPSUM DRYWALL ON 2 1/2" MET. STUDS
PRE-FINISHED METAL PANELS W/ STRUCTURAL GIRTS BY MANUF.
REVEAL PER MANUF. STANDARDS
STEEL SUPPORT b/s SEE STRUCT. DWGS
PRE-FINISHED CONTINUOUS SOFFIT VENT. (TYP.)
PRE-FINISHED METAL PANEL SYSTEM W/ STRUCTURAL GIRTS BY MANUF.
JOINT ℄
PANEL ℄
3'-10"
SECTION
1/2"=1'-0"
A
A·20
8" CMU
1 1/2" SEMI-RIGID INSUL.
THRU-WALL FLASHING & WEEP HOLES @ 24" O.C.
4" CMU
STEEL SHELF & SEE STRUCTURAL DWGS
DETAIL
1"=1'-0"
B
A·20
3" SEMI-RIGID INSUL.
STEEL BEAM FOR FIREPROOF - PROVIDE 3/4" CAULK JOINT BETWEEN CMU & STL. BEAM AROUND THE PERIMETER
STL. SHELF & SEE STRUCT. DWGS
PRE-FIN. MTL. COUNTER FLASHING PREFORMED W/ DETAIL ON ABOVE TO COVER EXTRUDED CORNER PREFORMED ALUM.)
2 LAYERS 5/8" GYP. BOARD TYPE 'X' ASSEMBLY EA. SIDE W/ METAL STUD FRAMING, SEAL TIGHT AROUND BRACING.
EXT. GRADE GYP. BD. CLG. ON DIRECT SUSPENSION SYSTEM
PRE-FINISHED ALUM. VENT - CONT.
PRE-FINISHED, EXTRUDED ALUM. CORNER - FASTEN TO CMU & F.R.T. WOOD BLOCK'G. W/ FASTENERS / CLIPS ON INSIDE EDGE
DETAIL
1"=1'-0"
C
A·20
REFERENCE LINE INTERSECTS ℄ OF COLUMN G/A
PRE-FINISHED METAL CAP (PRE-FORMED, ONE PIECE)
PRE-FINISHED METAL PANEL SYSTEM TYPE 'B'
TYPICAL 1/2" JOINTS BACKER ROD & CAULK
1 1/4" ⌀ PIPE RAILING
2" ⌀ PREFIN. VENTS @ 48" O.C. CENTER ON PANEL
PRE-FINISHED METAL TERMINATION STRIP
CONC. PAVERS ON PEDESTALS ON WATERPROOFING MEMBRANE ON SLOPED LT. WT. CONC. ADHERE MEMBRANE TO CONC. CURB & EXTEND TO TOP OF STL. ℄
SLOTTED STL. ℞ WELDED TO CONT. 4×4×1/4" ∟ & BOLTED TO STL. GIRT @ EA. VERTICAL JOINT & AS REQ'D BY METAL PANEL MANUF.
PRE-FIN. ALUM. COPING. FASTEN CONT. IN HORIZ. JOINT
CONT. STL. CHANNEL OR BENT ℞
CURTAINWALL SYSTEM TYPE 'A'
SPANDREL GLASS
SLOTTED ALUM. ANCHOR @ EA. MULLION
FIRE SAFING INSUL. (TYP.)
1 1/2" SEMI-RIGID INSUL.
VERTICAL MULLIONS
3RD FLOOR EL. 30'-8"
DETAIL
1"=1'-0"
D
A·20
4'-0" TO COL. LINE B
13'-0" TO COL. LINE C
'VALLEY' - SEE PLAN SHEET A4
SINGLE PIECE PRE-FORMED PRE-FIN. COPING/CAP
CURTAINWALL TYPE 'A'
VARIES
SEGMENTED EDGE
CURTAINWALL TYPE 'A' SEGMENTED
PRE-FORMED, PRE-FIN. ALUM. EDGE TRIM
TURN COPING UP 1"
VERT. MULLIONS, BACK SIDE OF SPANDREL GLASS ETC. BEYOND NOT SHOWN THIS AREA
TYPICAL HORIZ. MULLION
TYPICAL VERTICAL MULLIONS
LINE OF OUTSIDE OF GLASS BEYOND & ABOVE
TYPICAL PRE-FINISHED ALUM. MULLION COVER
TYPICAL PRE-FINISHED ALUM. SILL. TURN DOWN & MITER TO MEET SILL @ LOWER ELEVATION ON EITHER SIDE OF THIS SECTION
℄ OF JOINT & MULLION THIS DETAIL ONLY
CONT. ALUM. SECTION TO PROVIDE SUPPORT FOR COPING/CAP EDGE
1 1/2" SEMI-RIGID INSUL. @ THIS LOCATION @ THIS SECTION ONLY
DETAIL
1"=1'-0"
E
A·20
PRE-FINISHED METAL "CAP" SINGLE PIECE, PRE-FORMED
BOTTOM EDGE OF CAP FASTENS TO ℄ @ TOP OF PANEL & SEALS
CONT. STEEL FRAME @ TOP OF VERT. GIRTS
PRE-FIN. METAL PANEL SYSTEM
TOP OF COPING
BACK SIDE OF COPING
BRING COPING IN UNDER PANEL AND TURN UP 2" MIN. - CAULK JOINT
VERT. STEEL GIRT BEHIND
PROVIDE 2" END FACE @ PANEL BEYOND, COPING & TRIM TO ACCEPT SEALANT @ JOINTS
BACK SIDE OF BACKER ROD & SEALED JOINTS
HORIZONTAL MULLION
VERTICAL MULLION
BACK SIDE OF INSUL.
DETAIL
F
A·20

JOB NO.	8706
DATE	10-1-87
DRAWN	STAFF
CHECKED	CEB
FILE NO.	431.0

REVISIONS

SHEET

A•20

WALL SECTIONS AND DETAILS

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
LEXINGTON FINANCIAL CENTER • SUITE 1900 • 250 W. MAIN • LEXINGTON, KY 40507 • 606-254-1351

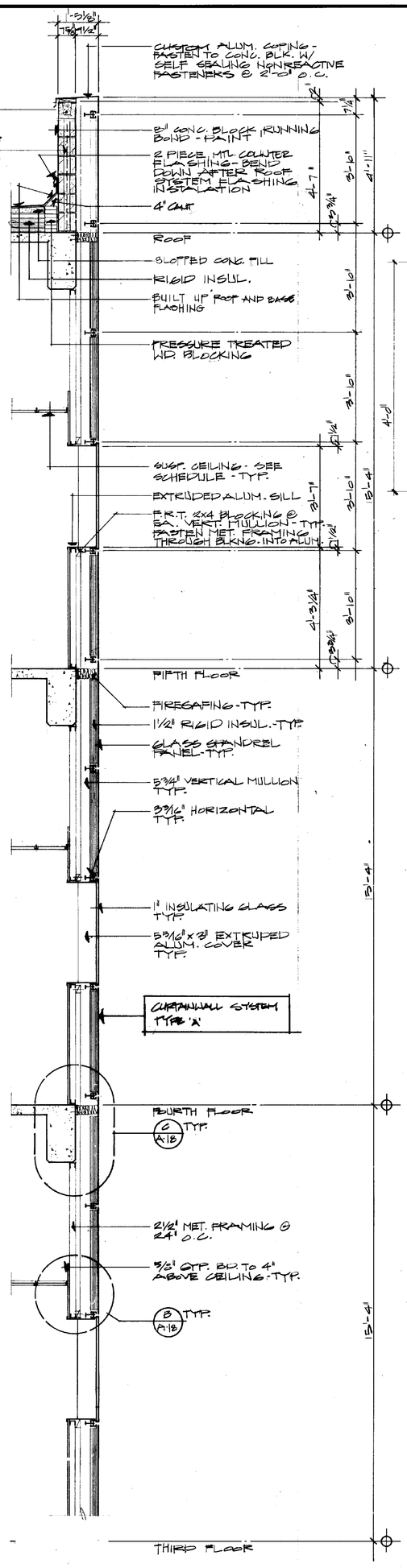
University of Kentucky
Lexington, Kentucky

approved by [signature] 10·19·87
director - design and construction division   date

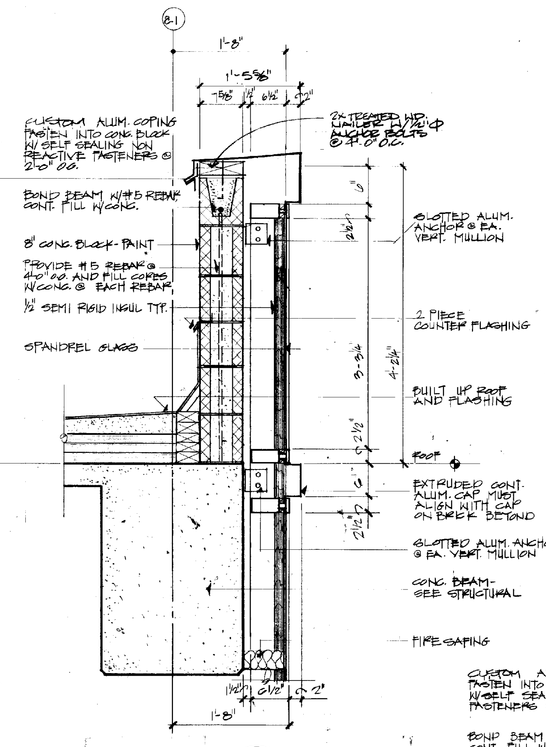
ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

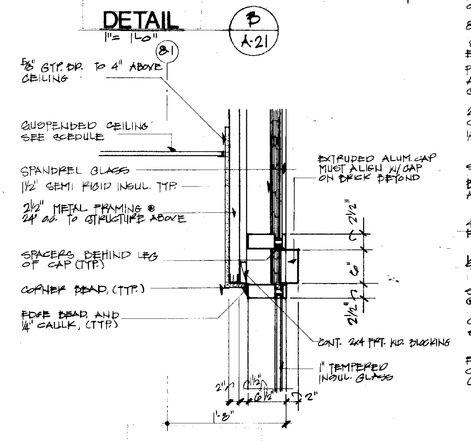
SHERMAN-CARTER-BARNHART REGISTERED NO. 1802-2096-2509 COMMONWEALTH OF KENTUCKY ARCHITECTS

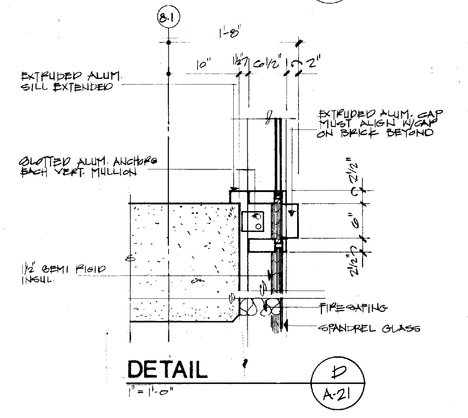
Cab #	Slot	Document #
82	C-1	004903

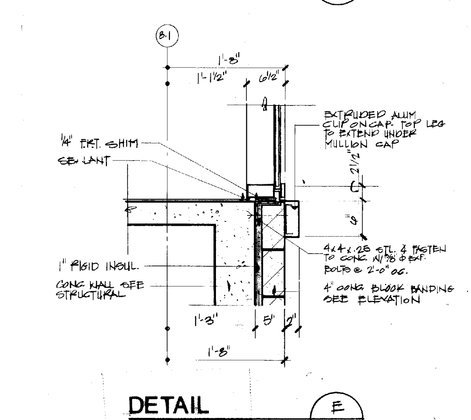


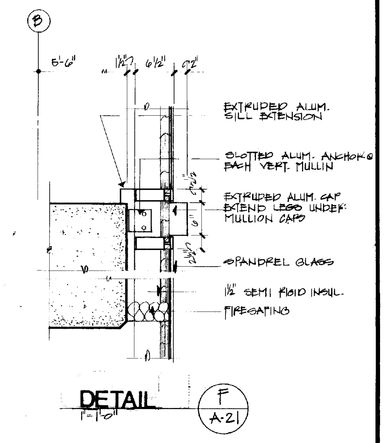
SECTION
1/2" = 1'-0"
A A-21

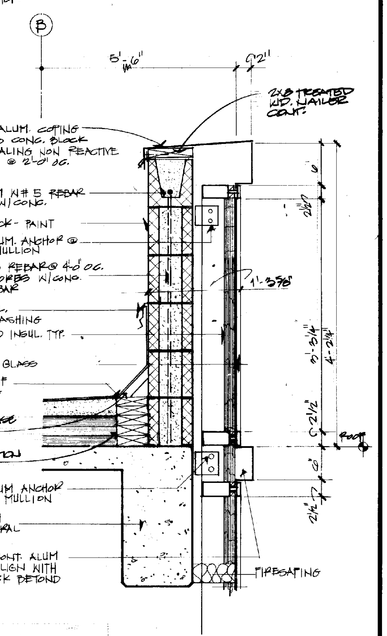


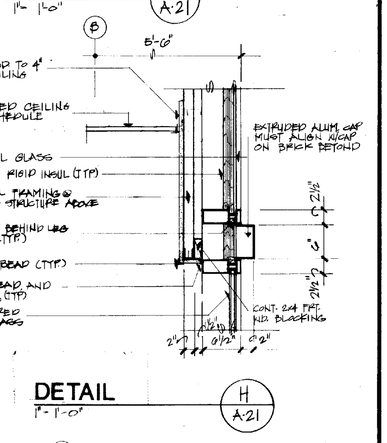


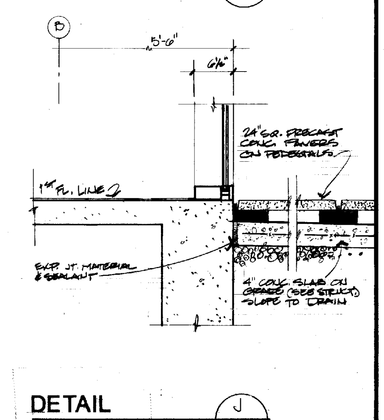


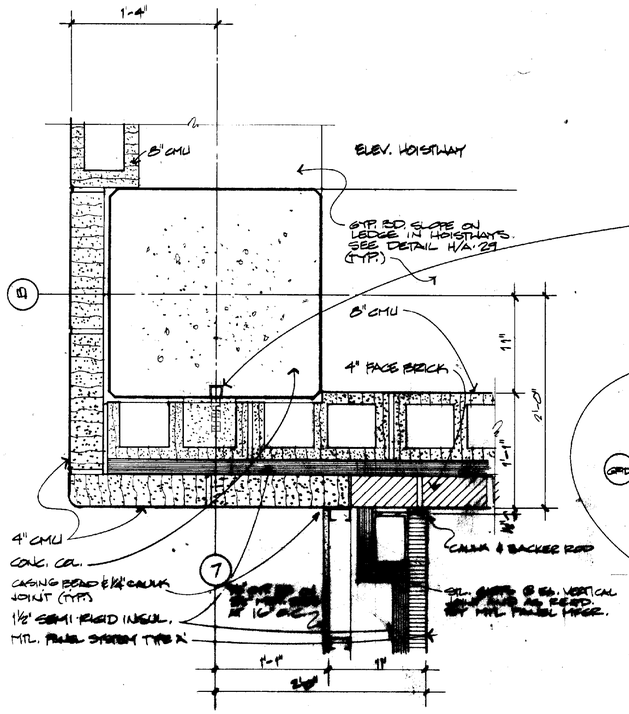


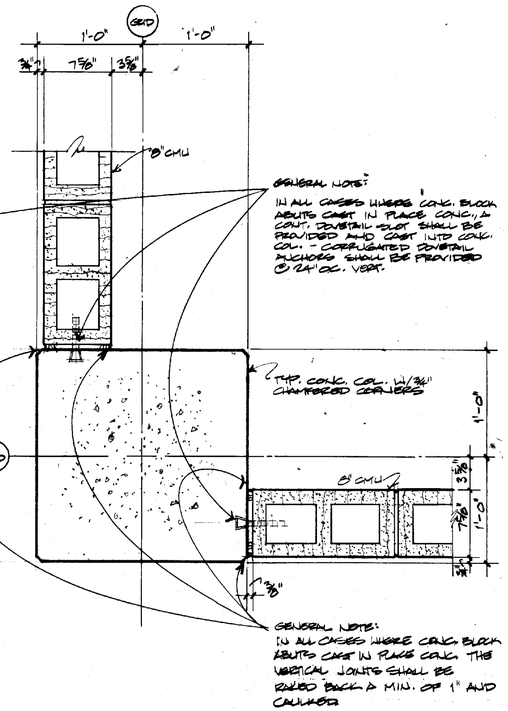


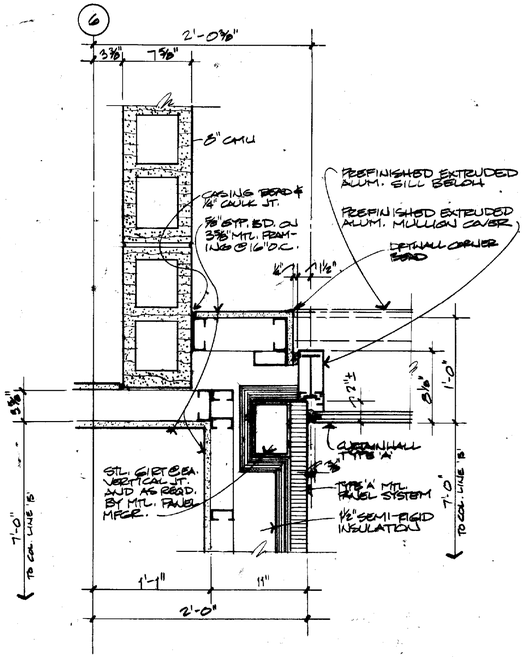


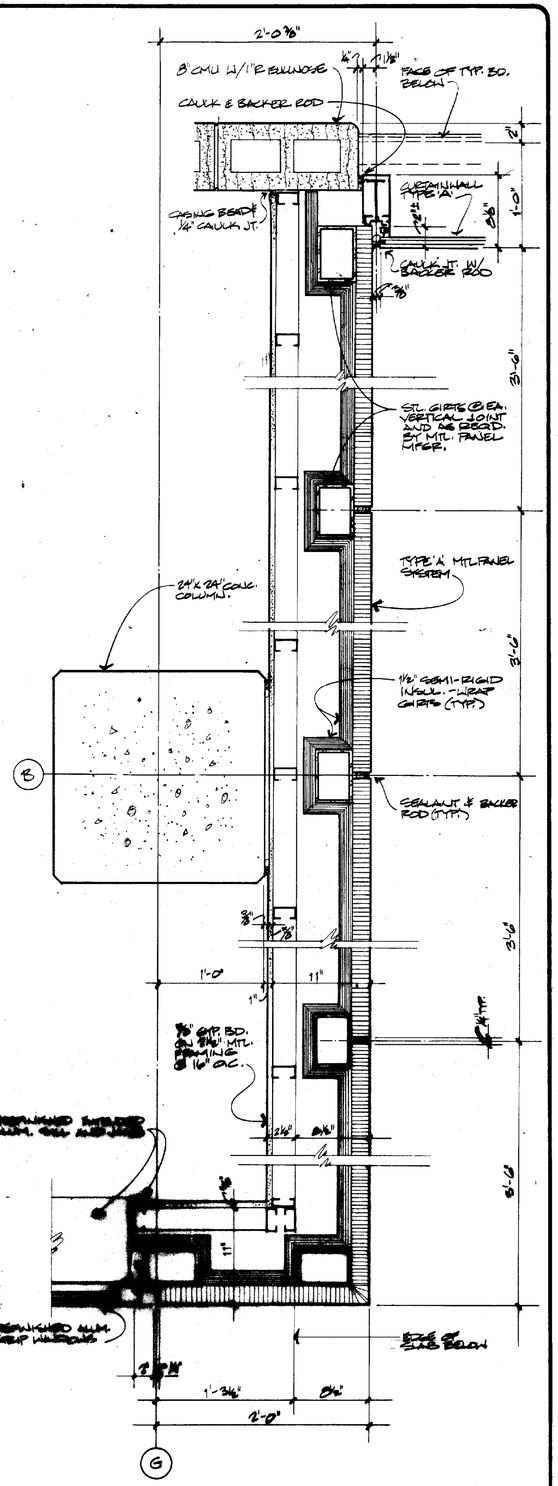












DETAIL
1½" = 1'-0"
A
A-21A

GENERAL NOTE:
IN ALL CASES WHERE CONC. BLOCK ABUTS CAST IN PLACE CONC., A CONT. DOVETAIL SLOT SHALL BE PROVIDED AND CAST INTO CONC. COL. - CORRUGATED DOVETAIL ANCHORS SHALL BE PROVIDED @ 24" O.C. VERT.

GENERAL NOTE:
IN ALL CASES WHERE CONC. BLOCK ABUTS CAST IN PLACE CONC. THE VERTICAL JOINTS SHALL BE RAKED BACK A MIN. OF 1" AND CAULKED

DETAIL (TYP.)
1½" = 1'-0"
B
A-21A

DETAIL
1½" = 1'-0"
C
A-21A

SECTION
1½" = 1'-0"
G
A-21A

SEE F/A-21A FOR GENERAL DESCRIPTIVE NOTATIONS.

DETAIL
D
A-21A

SEE F/A-21A FOR GENERAL DESCRIPTIVE NOTATIONS.

DETAIL
1½" = 1'-0"
E
A-21A

DETAIL
1½" = 1'-0"
F
A-21A

SHERMAN CARTER-BARNHART
REGISTERED
NO
1802-2096-2509
COMMONWEALTH OF KENTUCKY
ARCHITECTS

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by
director · design and construction division
10-19-87
date

DETAILS

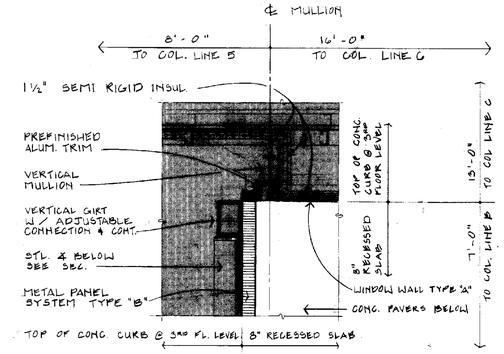
Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
LEXINGTON FINANCIAL CENTER · SUITE 1900 · 250 W. MAIN · LEXINGTON, KY 40507 · 606-254-1354

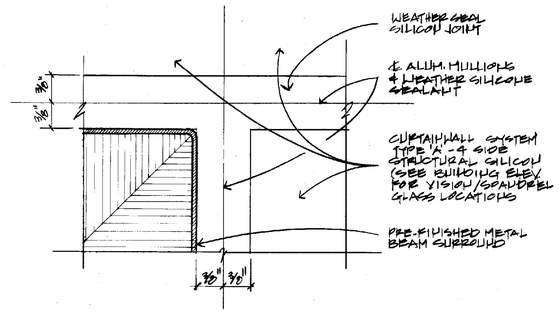
JOB NO.
DATE 10-1-87
DRAWN PRESTON
CHECKED

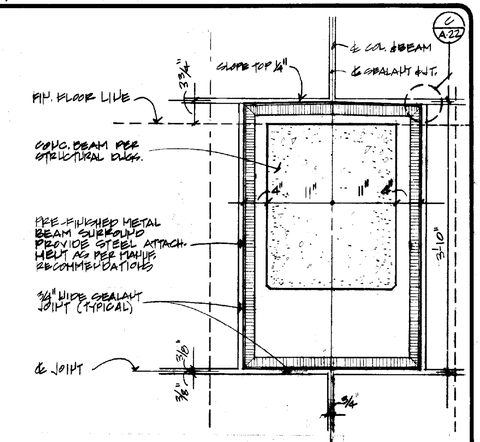
REVISIONS

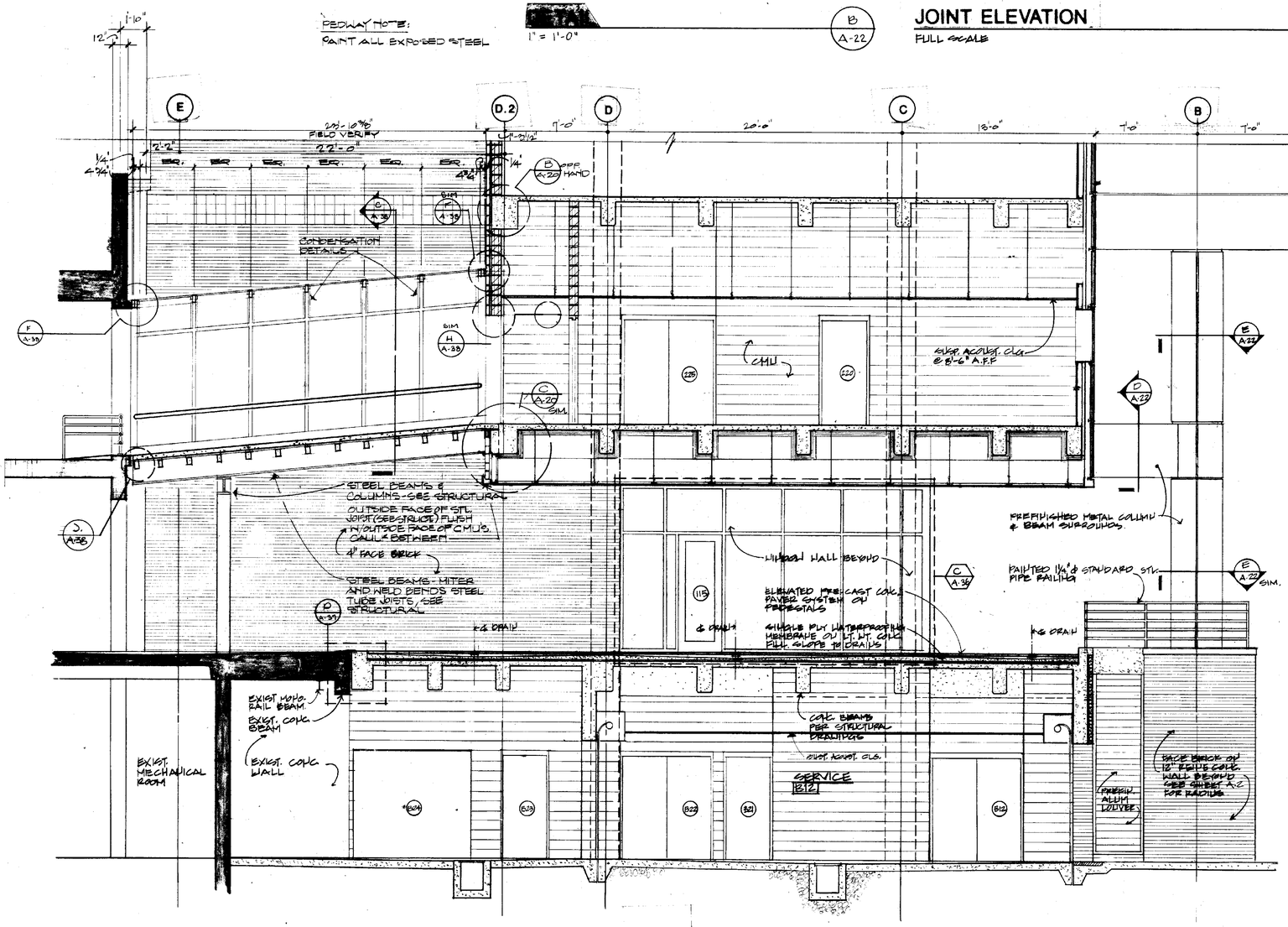
SHEET
A•21A

Cab #	Slot	Document #
82	C-1	004905









1" = 1'-0"

B A-22

JOINT ELEVATION

FULL SCALE

C A-22

BEAM SURROUND DETAIL

1"=1'-0"

D A-22

PARTIAL BUILDING SECTION

¼"=1'-0"

A A-22

COLUMN DETAIL

1"=1'-0"

E A-22

COLUMN BASE DETAIL

1"=1'-0"

F A-22

SHERMAN-CARTER-BARNHART REGISTERED NO 1800-2006-2009 COMMONWEALTH OF KENTUCKY ARCHITECTS

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by Walter Dunning 10.19.87
director · design and construction division date

DOCK SECTION AND DETAILS

Sherman · Carter · Barnhart
PARTNERS IN ARCHITECTURE
LEXINGTON FINANCIAL CENTER · SUITE 1900 · 250 W MAIN · LEXINGTON, KY 40507 · 606-254-1351

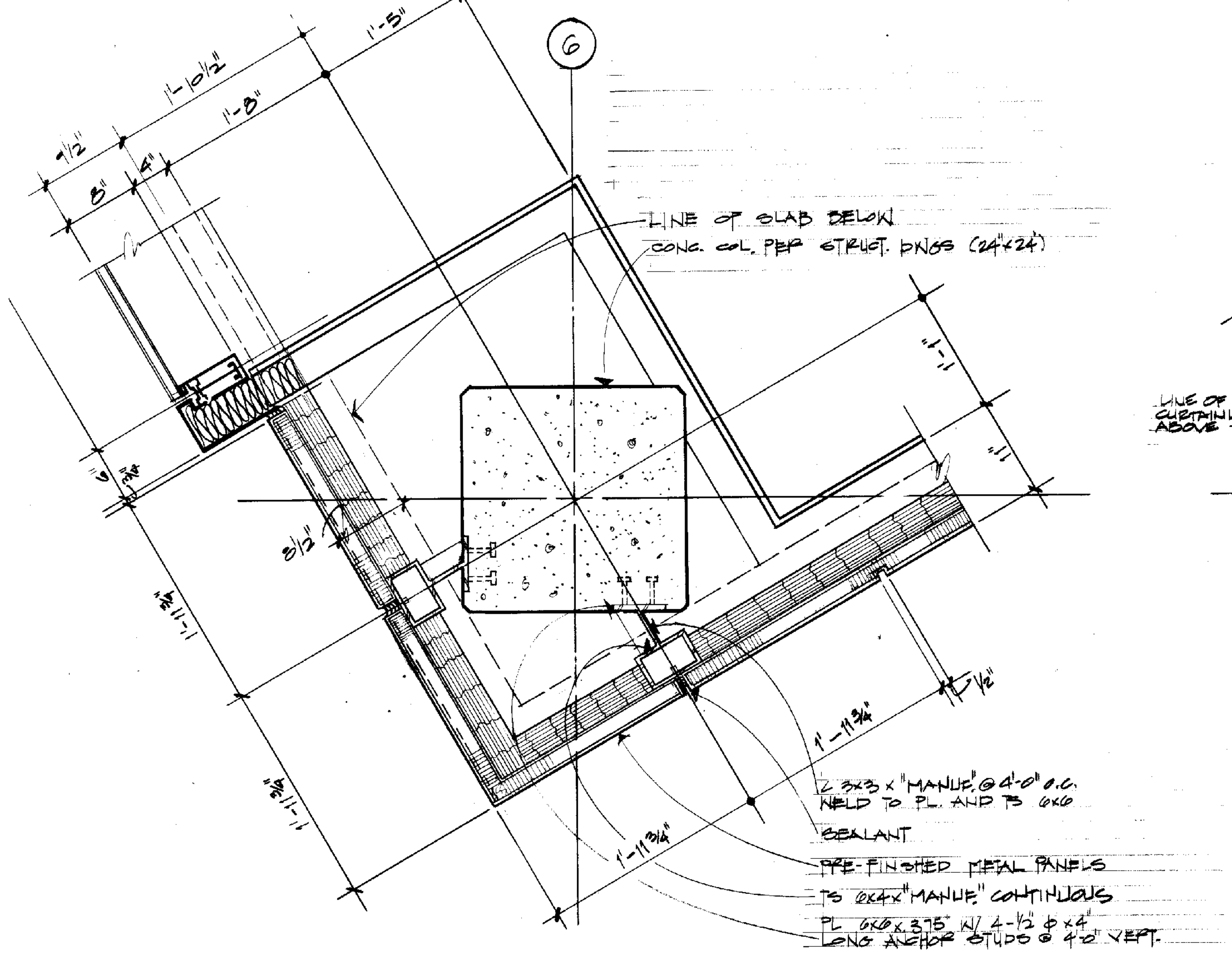
JOB NO.	8706
DATE	10-1-87
DRAWN	TUNE
CHECKED	CEB
FILE NO.	431.0

REVISIONS

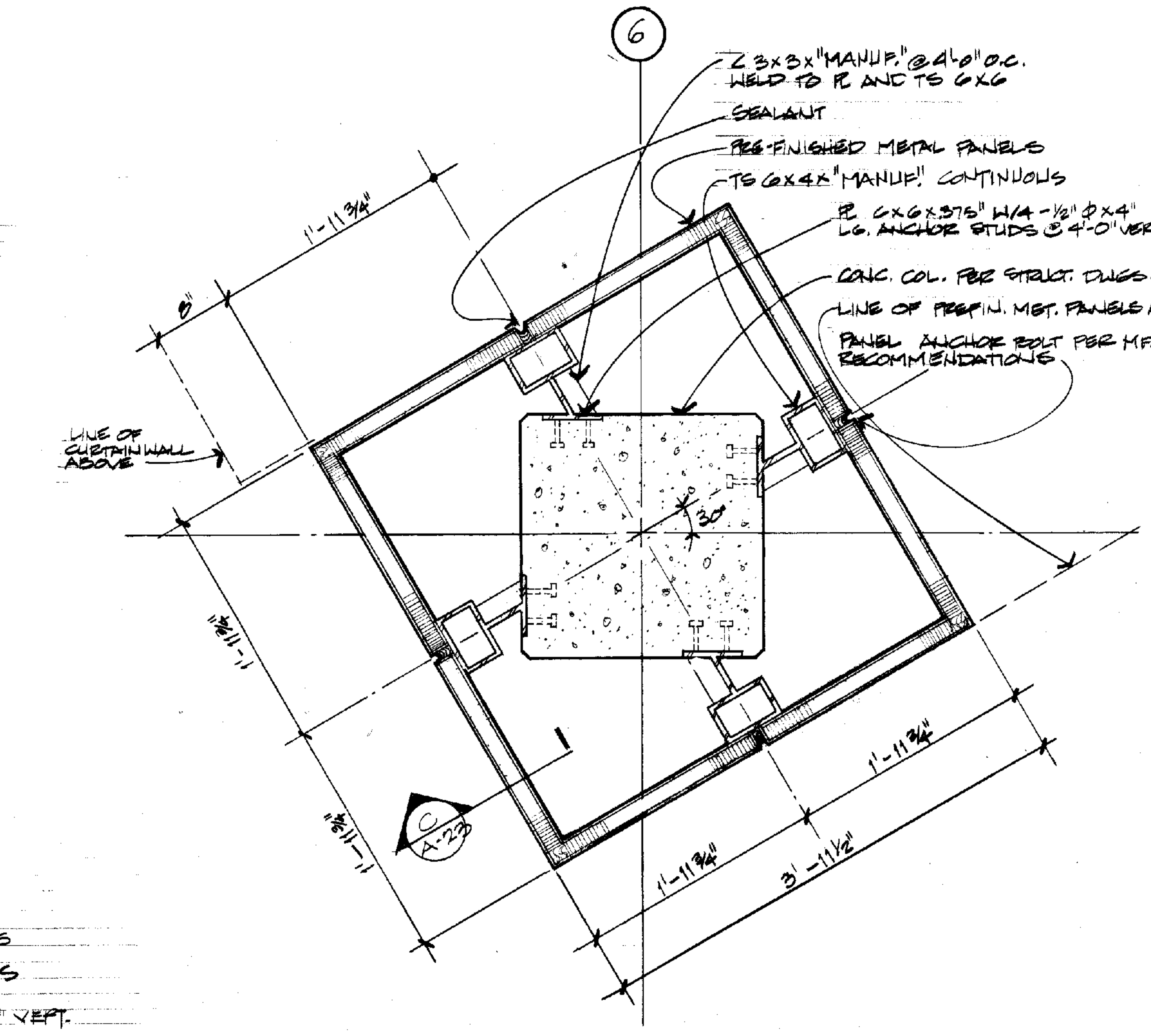
Cab #	Slot	Document #
82	A-3	004906

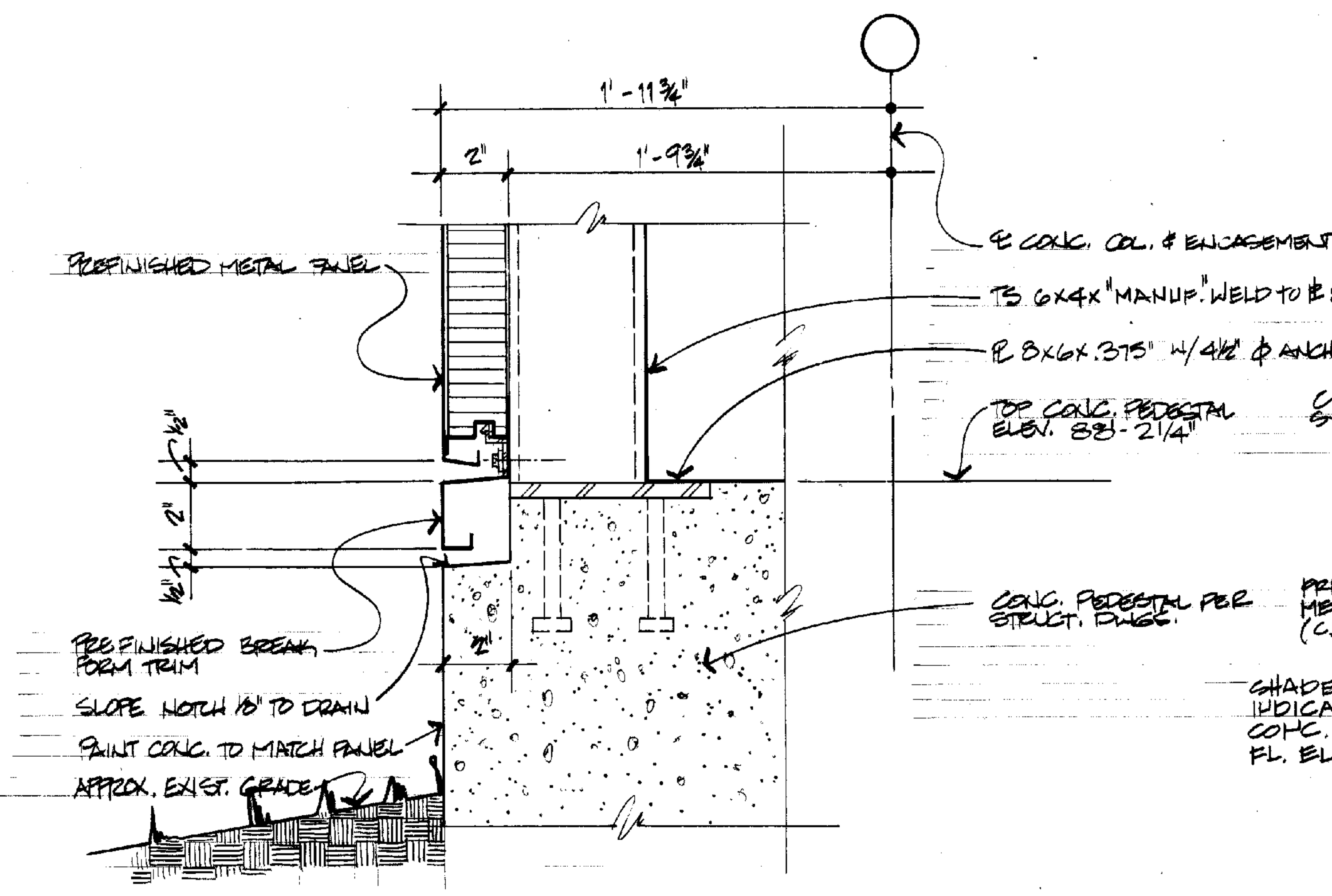
SHEET

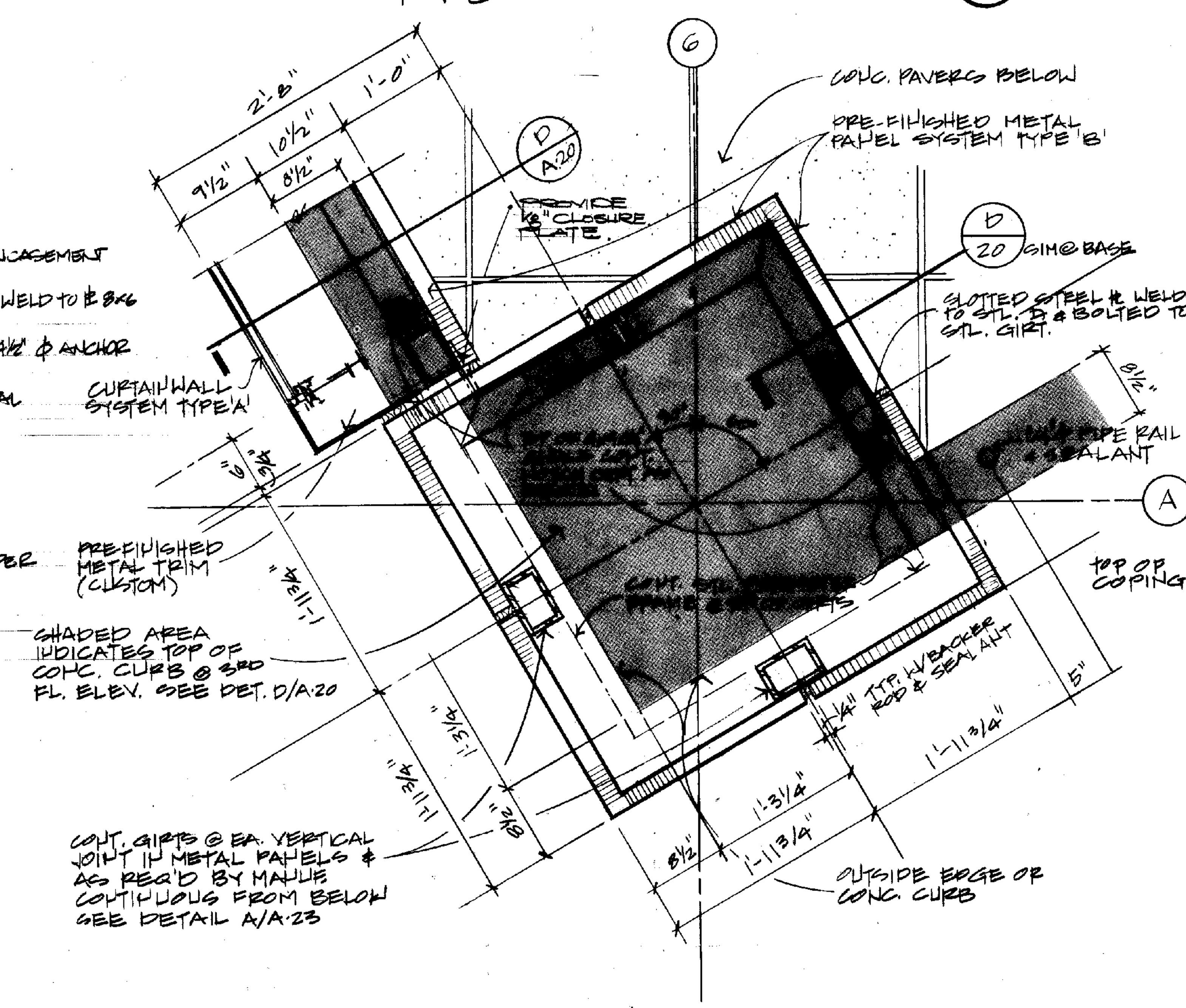
A•22



DETAIL
1" = 1'-0"
A / A·23

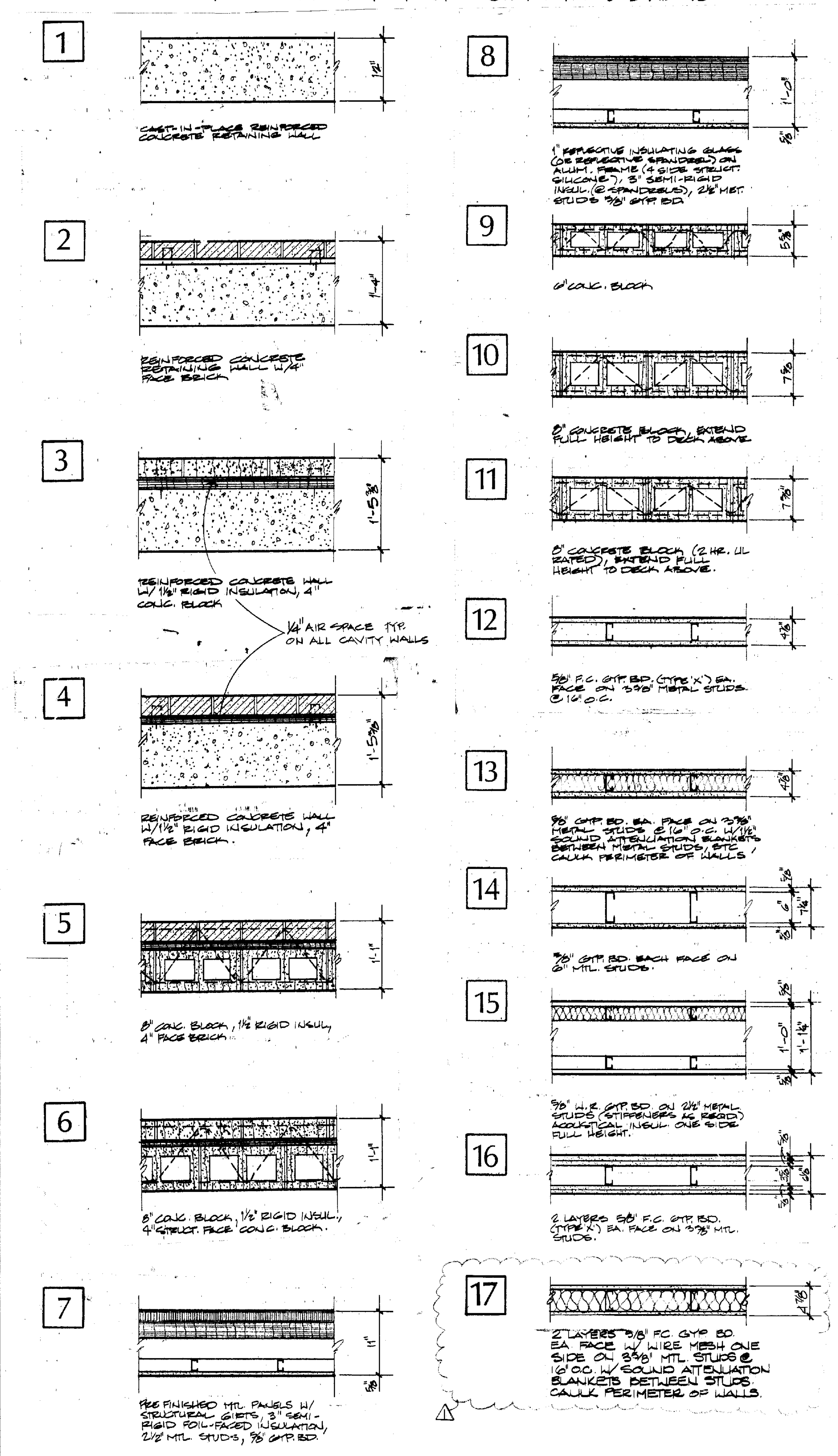

6
2 3x3x"MANUF." @4'-0" O.C. WELD TO PL AND TS 6x6
SEALANT
PRE-FINISHED METAL PANELS
TS 6x4x"MANUF." CONTINUOUS
PL 6x6x.375" W/4-½" ɸx4" LG. ANCHOR STUDS @ 4'-0" VERT.
CONC. COL. PER STRUCT. DWGS (24"x24")
LINE OF PREFIN. MET. PANELS ABOVE
PANEL ANCHOR BOLT PER MFGR. RECOMMENDATIONS
LINE OF CURTAIN WALL ABOVE
1'-11¾"
30°
C / A·23
DETAIL
1" = 1'-0"
B / A·23


1'-11¾"
2"
1'-9¾"
PREFINISHED METAL PANEL
℄ CONC. COL. & ENCASEMENT
TS 6x4x"MANUF." WELD TO PL 8x6
PL 8x6x.375" W/4½" ɸ ANCHOR
TOP CONC. PEDESTAL ELEV. 83'-2¼"
CONC. PEDESTAL PER STRUCT. DWGS.
PREFINISHED BREAK FORM TRIM
SLOPE NOTCH ⅛" TO DRAIN
PAINT CONC. TO MATCH PANEL
APPROX. EXIST. GRADE
DETAIL
3" = 1'-0"
C / A·23


6
2'-3"
1'-0"
9½"
10½"
6½"
D / A·20
CONC. PAVERS BELOW
PRE-FINISHED METAL PANEL SYSTEM TYPE 'B'
PROVIDE ⅛" CLOSURE PLATE
D / 20 SIM @ BASE
SLOTTED STEEL PL WELDED TO STL. PL & BOLTED TO STL. GIRT.
CURTAINWALL SYSTEM TYPE 'A'
PIPE RAIL + SEALANT
A
TOP OF COPING
PRE-FINISHED METAL TRIM (CUSTOM)
SHADED AREA INDICATES TOP OF CONC. CURB @ 3RD FL. ELEV. SEE DET. D/A.20
¼" TYP. W/BACKER ROD & SEAL ANT
1'-11¾"
1'-3¼"
5"
CONT. GIRTS @ EA. VERTICAL JOINT IN METAL PANELS & AS REQ'D BY MANUF. CONTINUOUS FROM BELOW SEE DETAIL A/A·23
OUTSIDE EDGE OF CONC. CURB
DETAIL
1" = 1'-0"
D / A·23

PARTITION TYPES

NOTE: REFER TO REFLECTED CEILING PLANS FOR INDICATION OF WHICH WALLS CONTINUE TO UNDERSIDE OF CONC. SLAB ABOVE


1
12"
CAST-IN-PLACE REINFORCED CONCRETE RETAINING WALL
2
1'-4"
REINFORCED CONCRETE RETAINING WALL W/4" FACE BRICK
3
1'-5⅜"
REINFORCED CONCRETE WALL W/ 1½" RIGID INSULATION, 4" CONC. BLOCK
¼" AIR SPACE TYP. ON ALL CAVITY WALLS
4
1'-5⅝"
REINFORCED CONCRETE WALL W/1½" RIGID INSULATION, 4" FACE BRICK.
5
1'-1"
8" CONC. BLOCK, 1½" RIGID INSUL, 4" FACE BRICK
6
1'-1"
8" CONC. BLOCK, 1½" RIGID INSUL., 4" STRUCT. FACE CONC. BLOCK.
7
11"
⅝"
PRE FINISHED MTL. PANELS W/ STRUCTURAL GIRTS, 3" SEMI-RIGID FOIL-FACED INSULATION, 2½" MTL. STUDS, ⅝" GYP. BD.
8
1'-0"
⅝"
1" REFLECTIVE INSULATING GLASS (OR REFLECTIVE SPANDREL) ON ALUM. FRAME (4 SIDE STRUCT. SILICONE), 3" SEMI-RIGID INSUL. (@ SPANDRELS), 2½" MET. STUDS ⅝" GYP. BD.
9
5⅝"
6" CONC. BLOCK
10
7⅝"
8" CONCRETE BLOCK, EXTEND FULL HEIGHT TO DECK ABOVE
11
7⅝"
8" CONCRETE BLOCK (2 HR. UL RATED), EXTEND FULL HEIGHT TO DECK ABOVE.
12
4⅝"
⅝" F.C. GYP. BD. (TYPE 'X') EA. FACE ON 3⅝" METAL STUDS @ 16" O.C.
13
4⅞"
⅝" GYP. BD. EA. FACE ON 3⅝" METAL STUDS @ 16" O.C. W/1½" SOUND ATTENUATION BLANKETS BETWEEN METAL STUDS, ETC. CAULK PERIMETER OF WALLS
14
⅝"
6"
7¼"
⅝"
⅝" GYP. BD. EACH FACE ON 6" MTL. STUDS.
15
⅝"
1'-0"
1'-1¼"
⅝"
⅝" W.R. GYP. BD. ON 2½" METAL STUDS (STIFFENERS AS REQ'D) ACOUSTICAL INSUL. ONE SIDE FULL HEIGHT.
16
⅝"
3⅝"
6⅛"
⅝"
2 LAYERS ⅝" F.C. GYP. BD. (TYPE X') EA. FACE ON 3⅝" MTL. STUDS.
17
4⅞"
2 LAYERS ⅝" F.C. GYP. BD. EA. FACE W/ WIRE MESH ONE SIDE ON 3⅝" MTL. STUDS @ 16" O.C. W/ SOUND ATTENUATION BLANKETS BETWEEN STUDS. CAULK PERIMETER OF WALLS.
1

AS BUILT

REGISTERED ARCHITECT — COMMONWEALTH OF KENTUCKY

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
10.19.87

PARTITION SCHEDULE AND DETAILS

Sherman · Carter · Barnhart
PARTNERS IN ARCHITECTURE
LEXINGTON FINANCIAL CENTER · SUITE 1900 · 250 W. MAIN · LEXINGTON, KY 40507 · 606-254-1351

JOB NO.	8706
DATE	10-1-87
DRAWN	[illegible]
CHECKED	CEB
FILE NO.	431.0

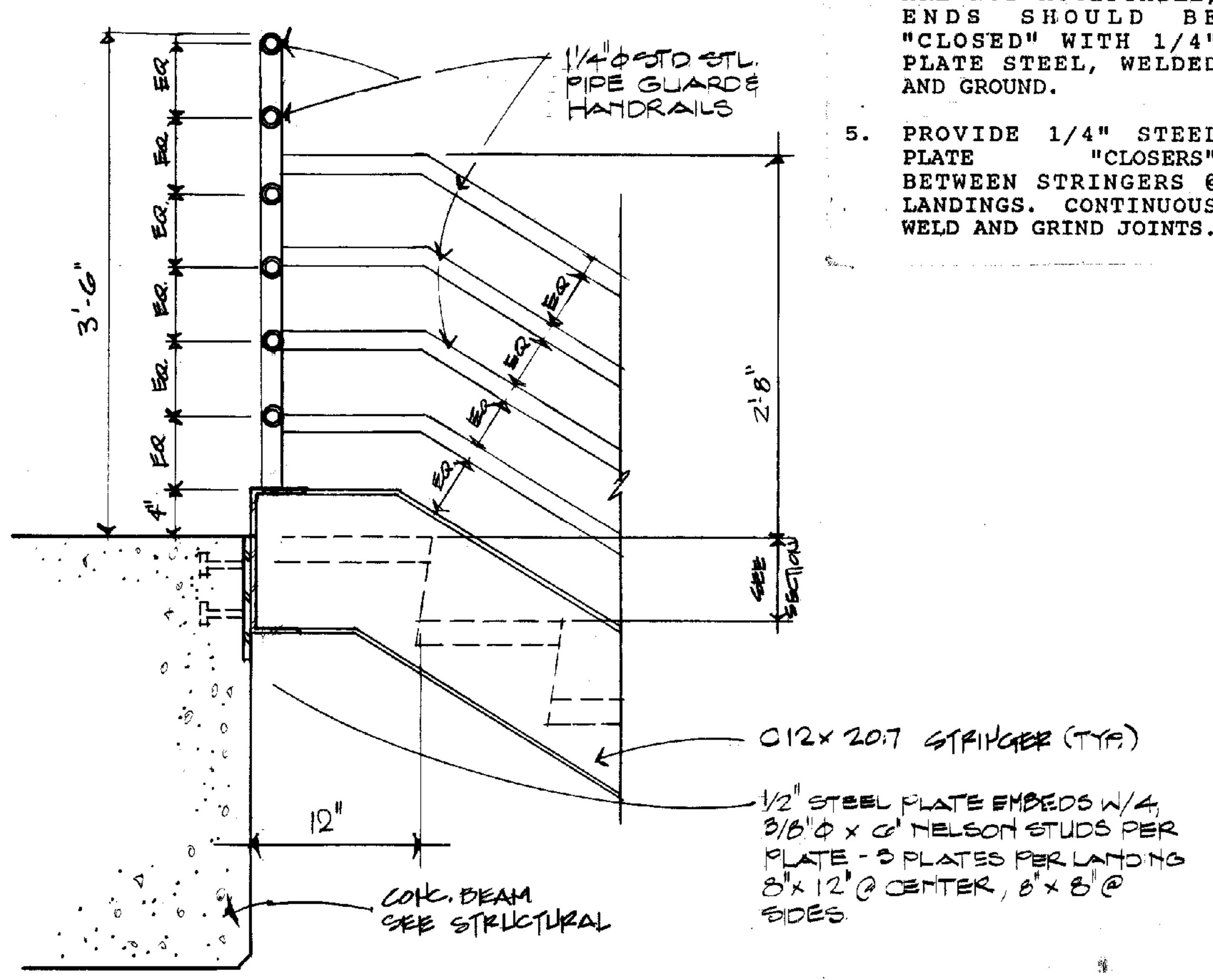
REVISIONS
1 FEB 7, 199[illegible]

SHEET
A•23

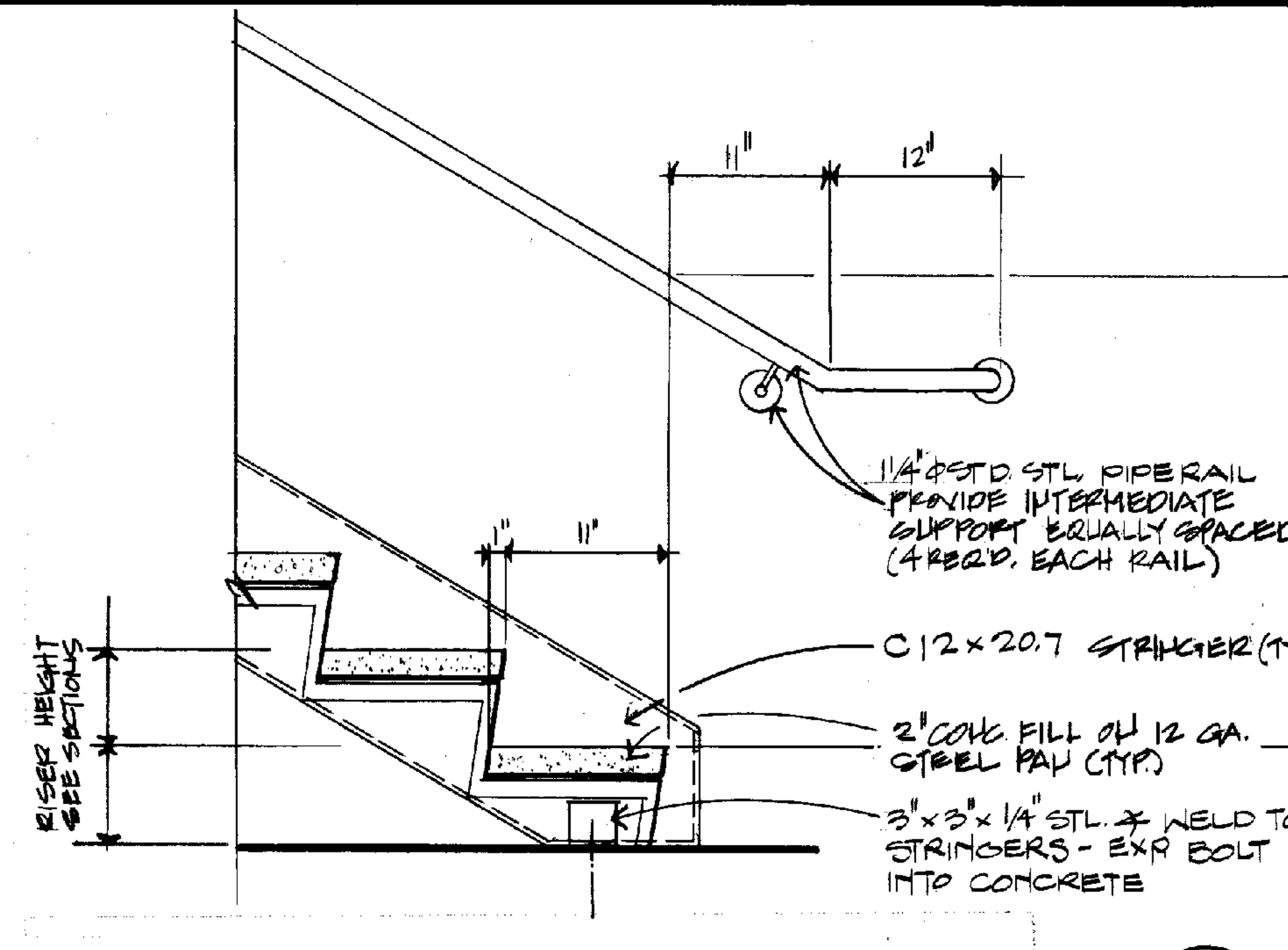
Cab # 82 Sled A-1 Document # 0045077

GENERAL STEEL STAIR NOTES

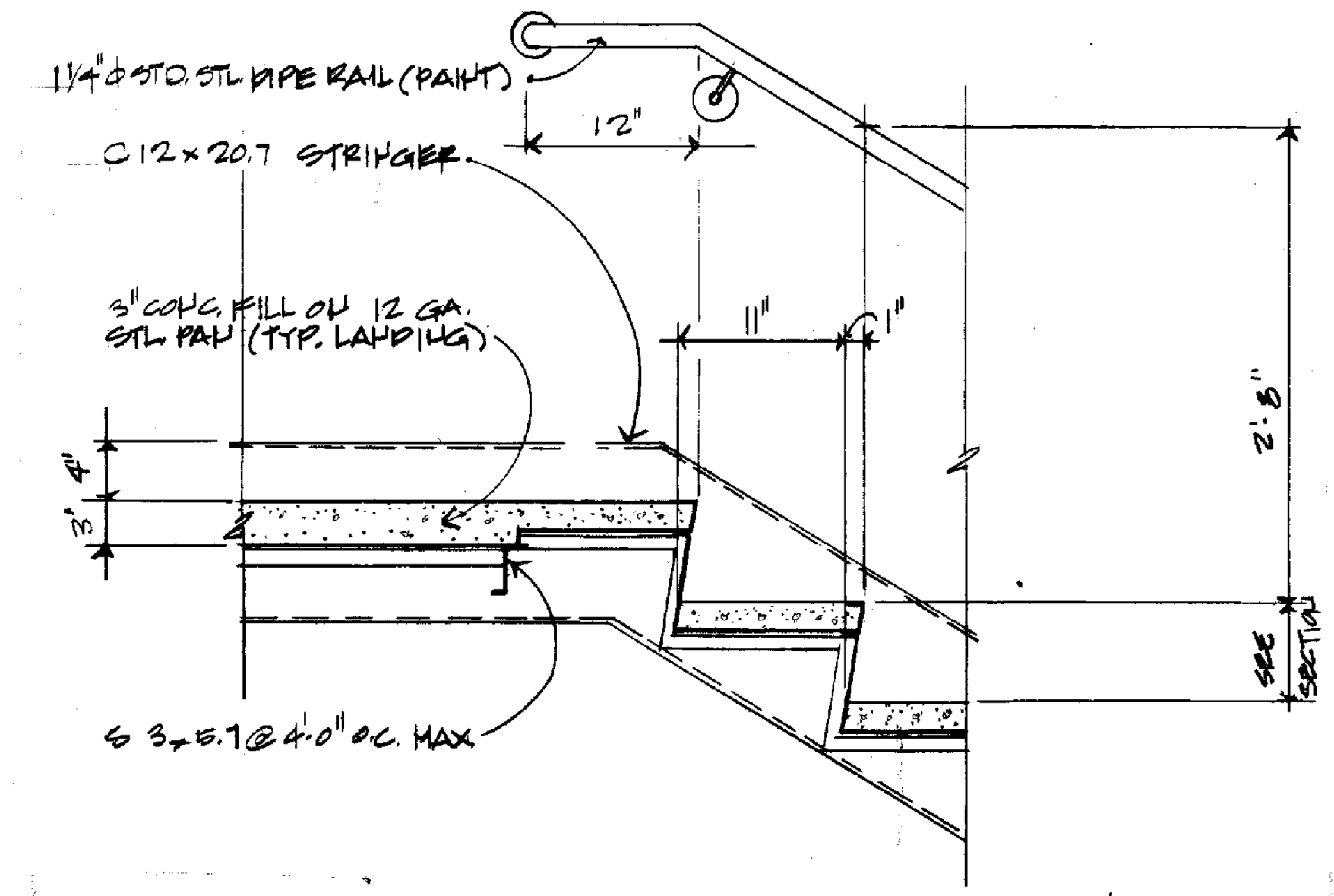
1. ALL EXPOSED STEEL STAIR COMPONENTS SHALL BE PAINTED.
2. THOROUGH REMOVAL OR PRE-PAINTING OF "PIECE MARKINGS" IS REQUIRED. BLEED THROUGH SHALL NOT BE ACCEPTED.
3. MITER CUT AND WELD ALL TURNS IN STRINGERS.
4. "OPEN" STRINGER ENDS ARE NOT ACCEPTABLE, ENDS SHOULD BE "CLOSED" WITH 1/4" PLATE STEEL, WELDED AND GROUND.
5. PROVIDE 1/4" STEEL PLATE "CLOSERS" BETWEEN STRINGERS @ LANDINGS. CONTINUOUS WELD AND GRIND JOINTS.



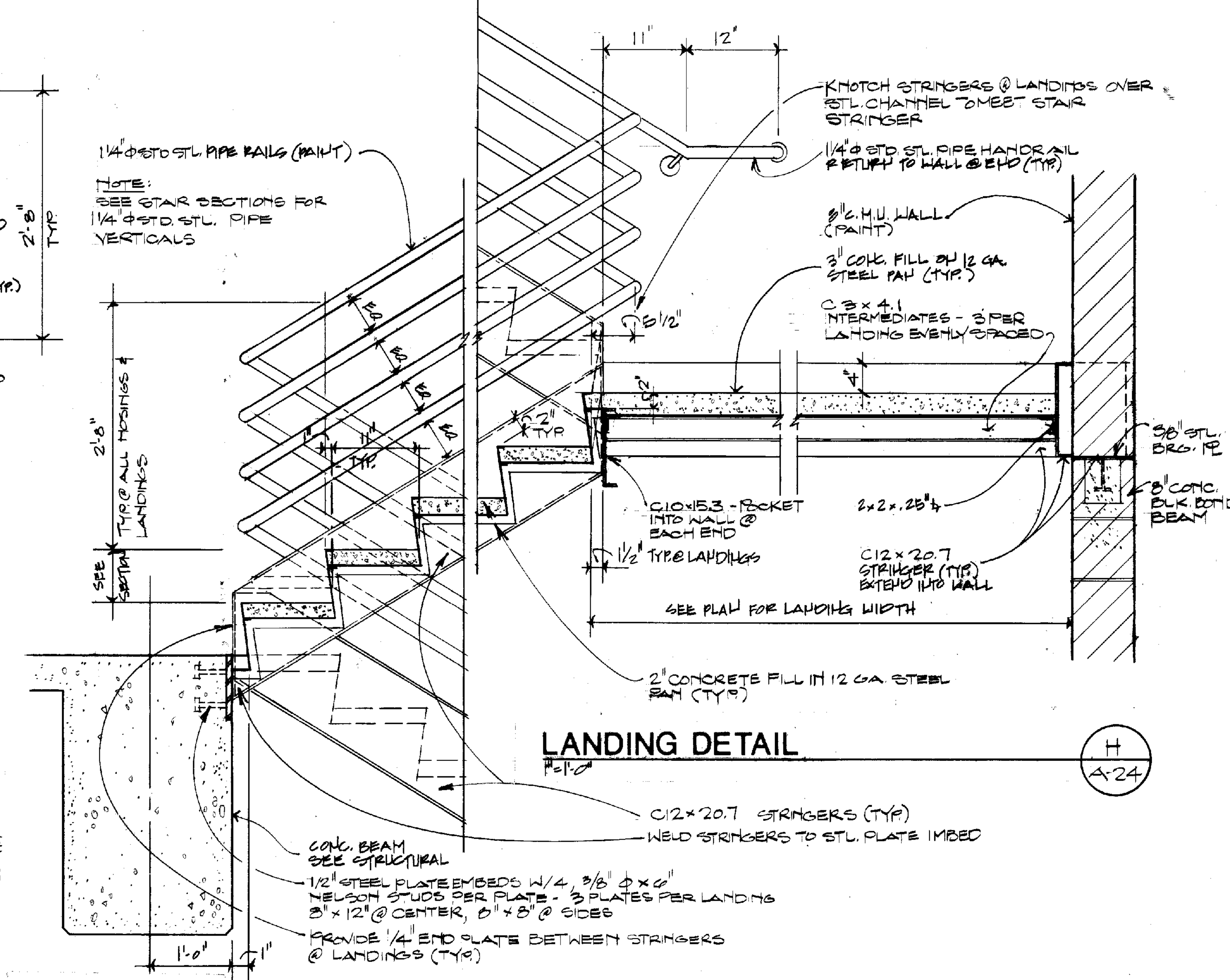
GUARD DETAIL D/A·24
1"=1'-0"



BASEMENT BEARING DETAIL G/A·24
1"=1'-0"

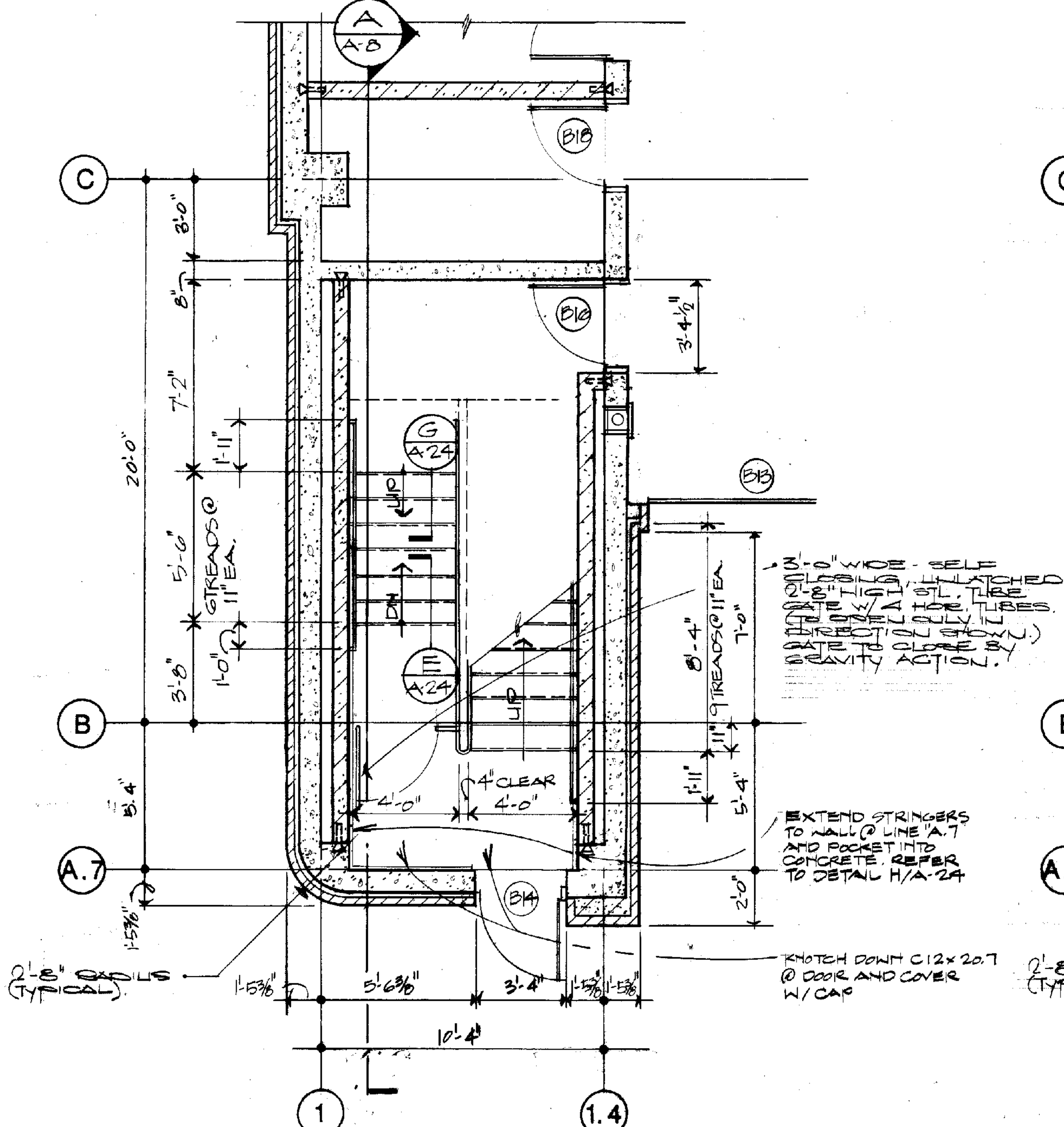


DETAIL E/A·24
1"=1'-0"

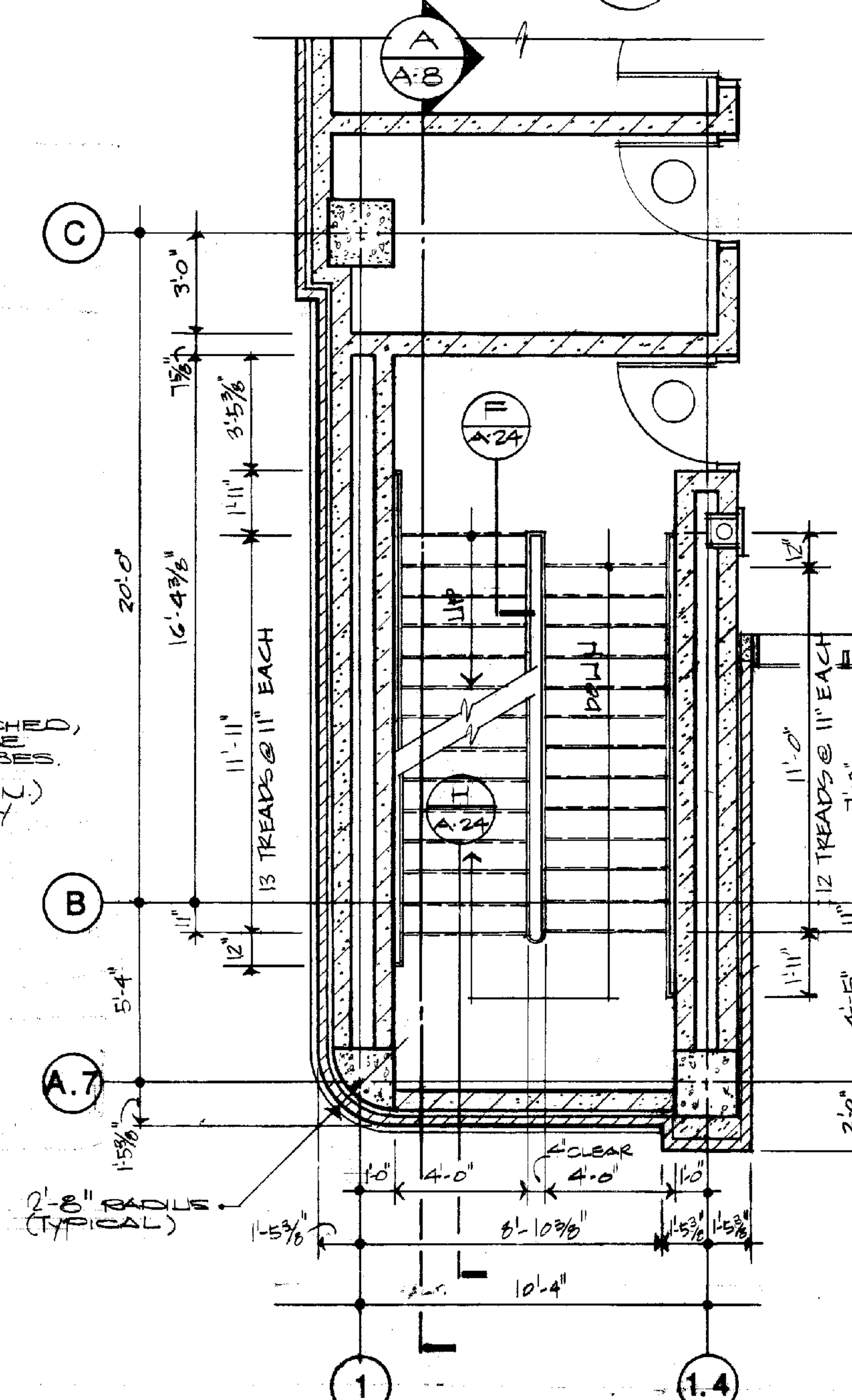


LANDING DETAIL H/A·24
1"=1'-0"

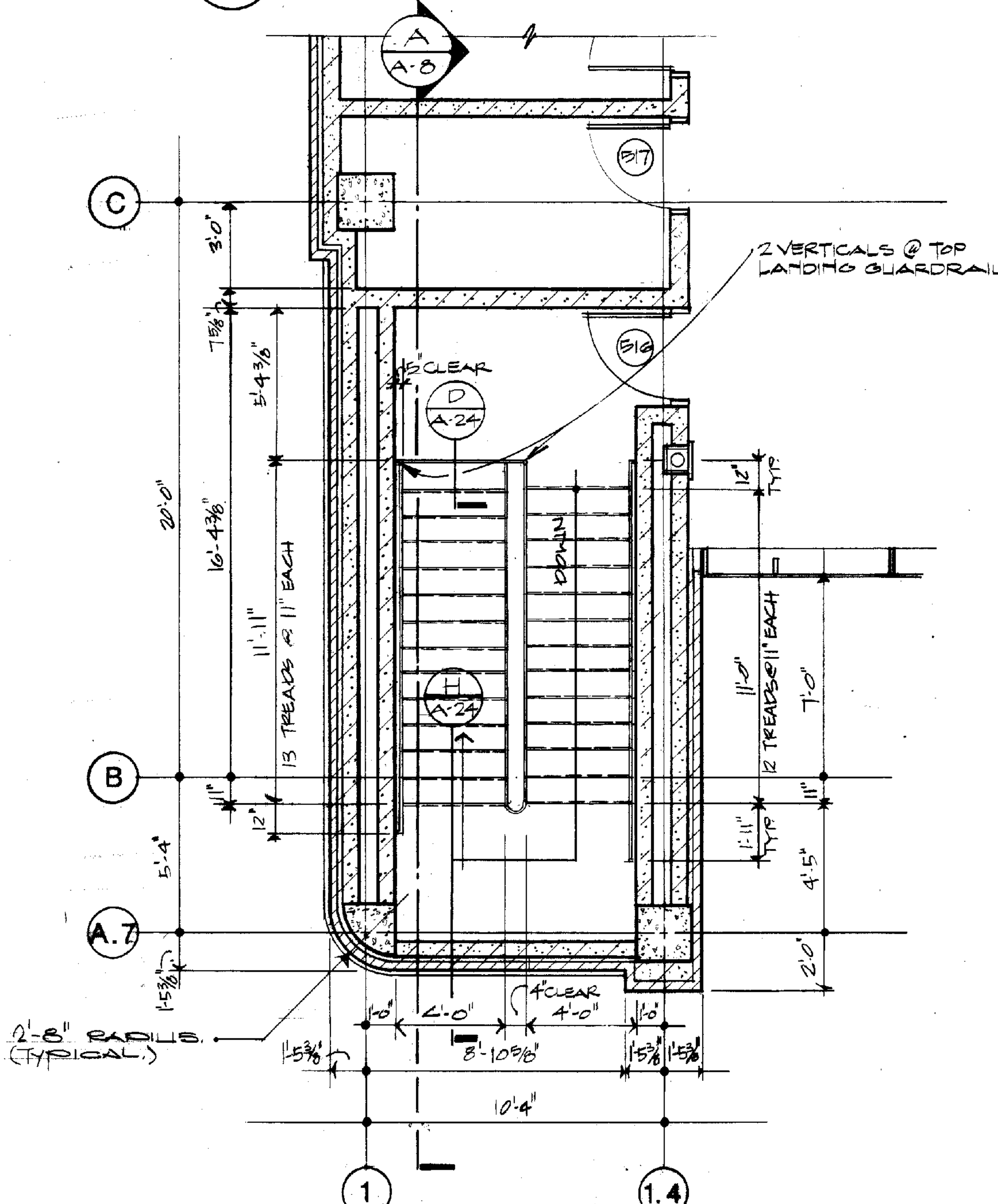
DETAIL F/A·24
1"=1'-0"



ENLARGED STAIR PLAN (Basement) A/A·24
1/4"=1'-0"



ENLARGED STAIR PLAN (2nd, 3rd & 4th Floors) B/A·24
1/4"=1'-0"



ENLARGED STAIR PLAN (Fifth Floor) C/A·24
1/4"=1'-0"

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

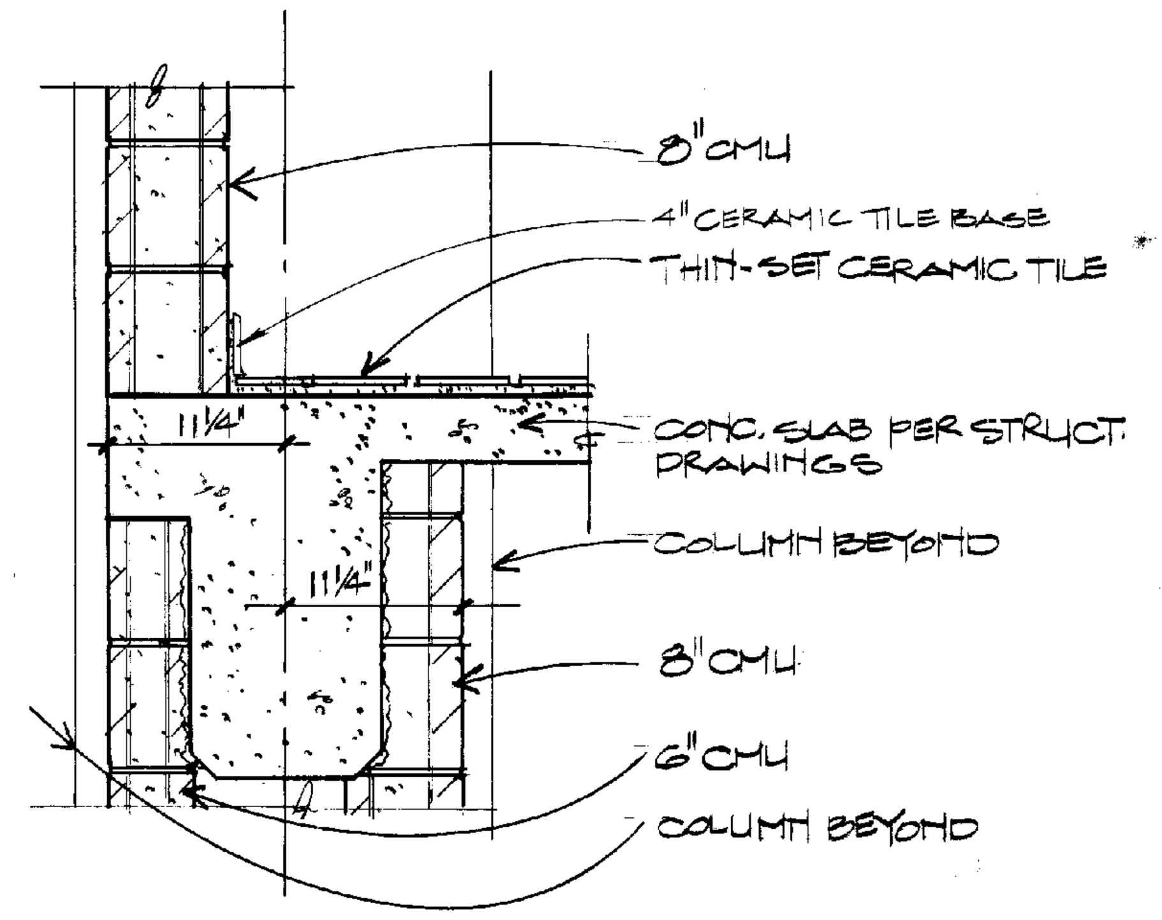
ENLARGED STAIR PLANS & DETAILS

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE

JOB NO.	8706
DATE	10-1-87
DRAWN	STAFF
CHECKED	CEB
FILE NO.	431.0

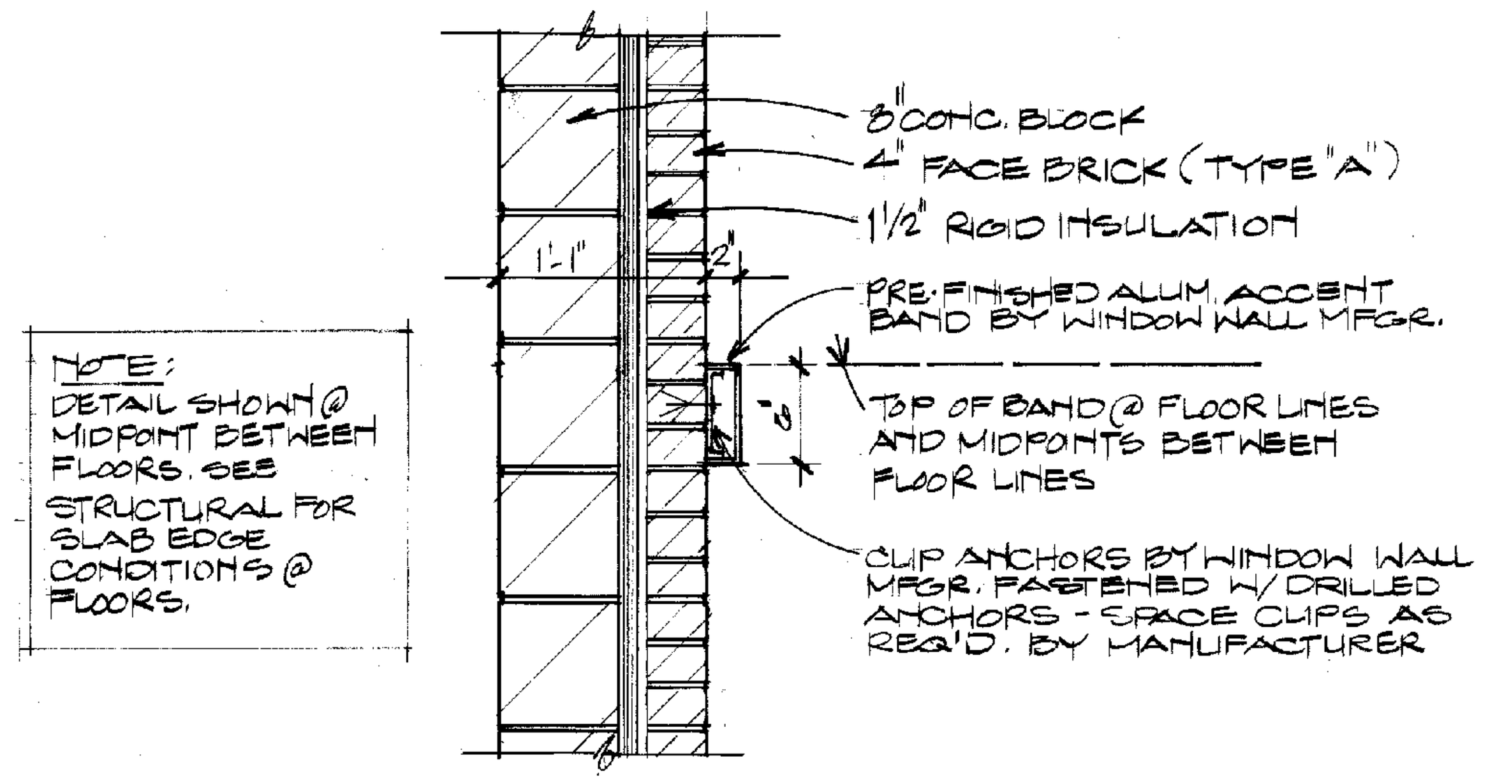
REVISIONS

SHEET
A•24



DETAIL (C / A-25)

1" = 1'-0"



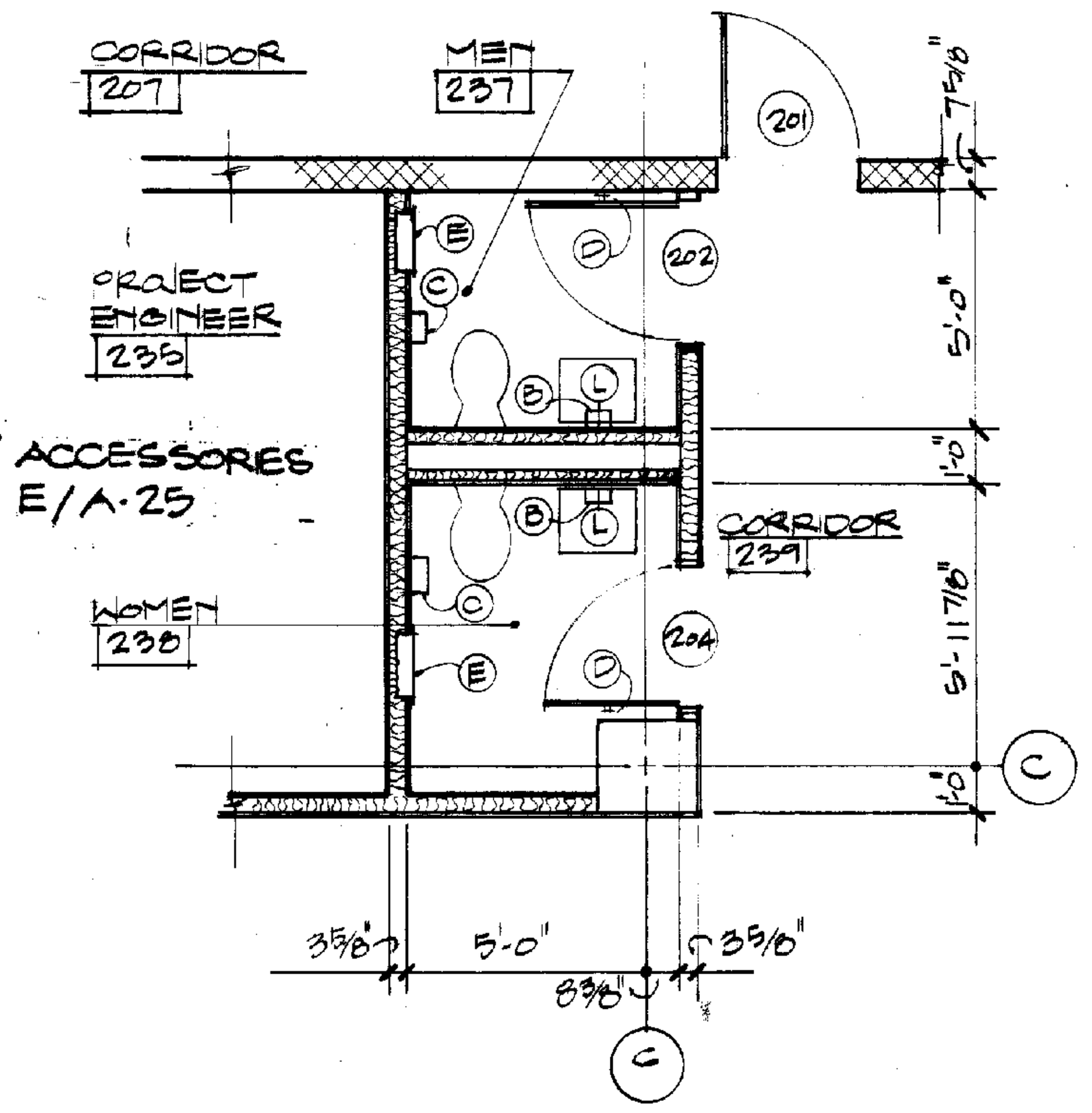
ACCENT BAND DETAIL (D / A-25)

1" = 1'-0"

	ITEM	MOUNTING HEIGHT
A	GRAB BAR	33" TO ℄
B	SOAP DISPENSER	38" TO DISPENSER
C	TOILET TISSUE DISPENSER	26" TO ℄
D	ROBE HOOK	64" TO ℄
E	PAPER TOWEL DISPENSER	48" TO TOWEL
F	NAPKIN DISPOSAL (RECESSED)	29" TO TOP
G	NAPKIN DISPOSAL (PARTITION)	29" TO TOP
H J K	MIRROR	SEE F/A-30
L	MIRROR	48" TO BOTTOM
M	SOAP DISPENSER	VANITY TOP
N	MOP RACK W/ SHELF	68" TO SHELF

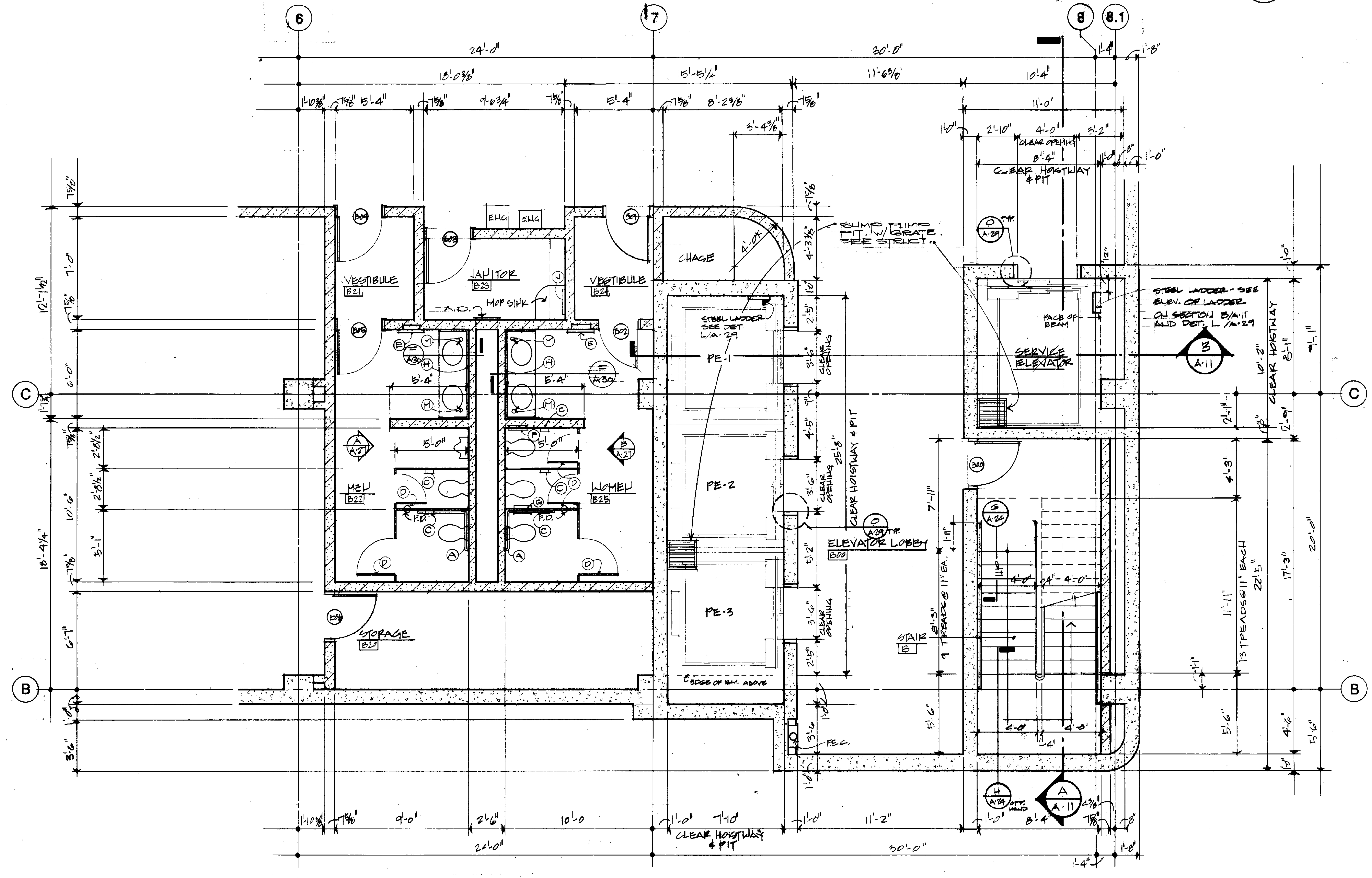
TOILET ACCESSORIES (E / A-25)

NOTE: SEE TOILET ACCESSORIES SCHEDULE, E/A-25



ENLARGED TOILET PLAN (B / A-25)

1/4" = 1'-0"



ENLARGED CORE PLAN (BSMN'T) (A / A-25)

SCALE: 1/4" = 1'-0"

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by [signature] director · design and construction division

date 10.19.87

ENLARGED PLANS & DETAILS

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-1351

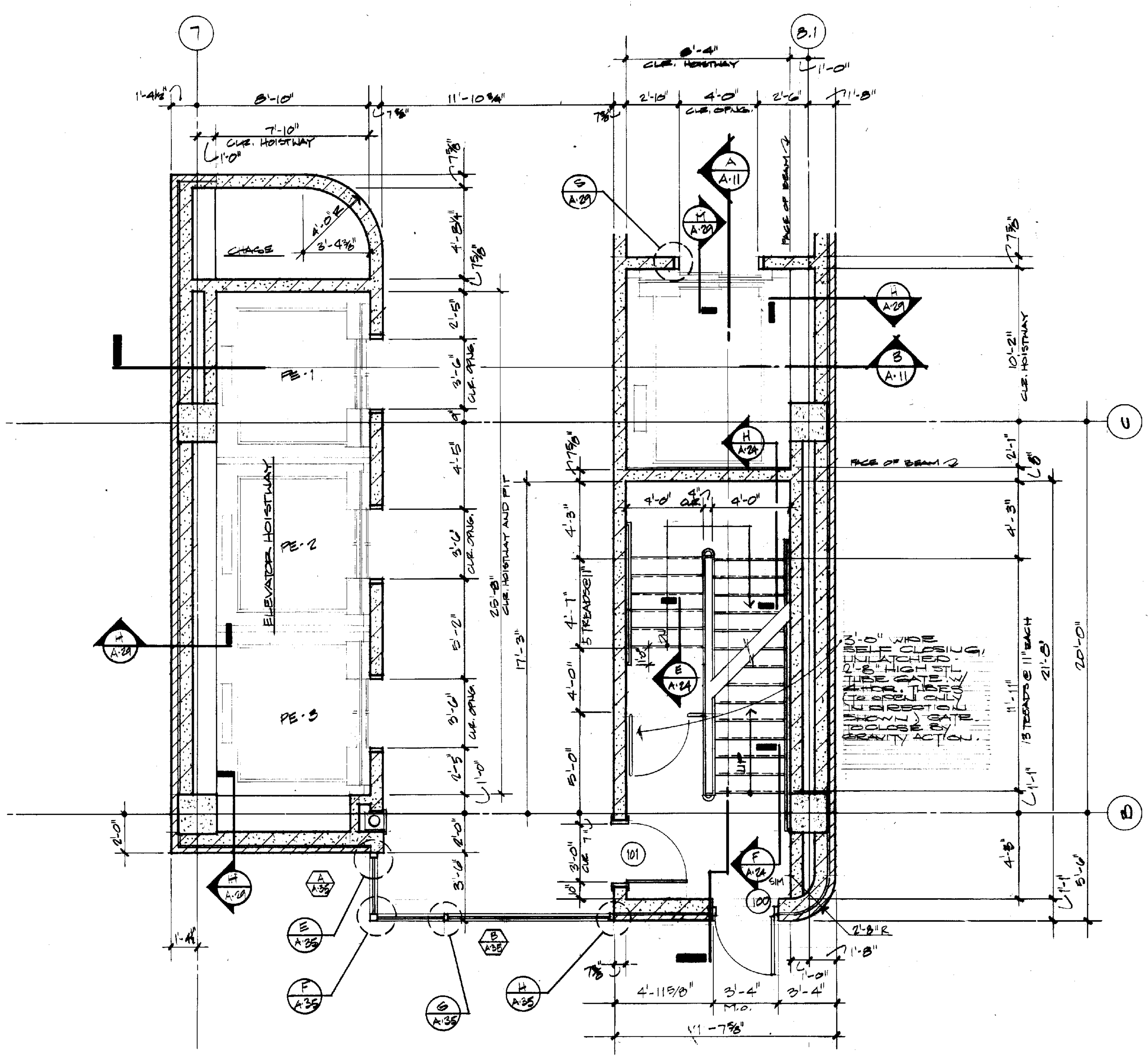
JOB NO.	87.06
DATE	10-1-87
DRAWN	STAFF
CHECKED	CEB
FILE NO.	431.0

REVISIONS

Cab #	Slot	Document #
82	A-3	004909

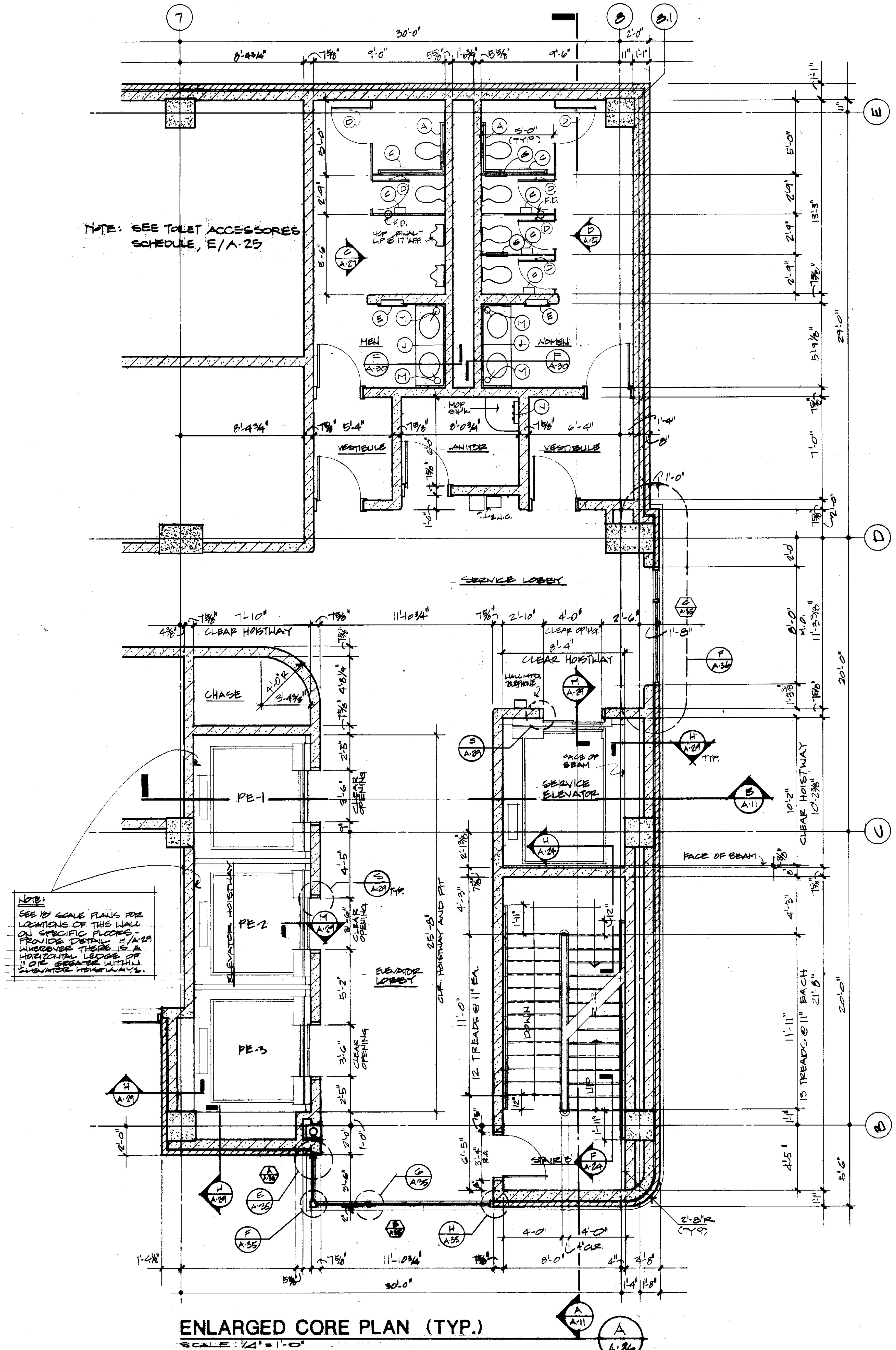
SHEET

A•25



ENLARGED CORE PLAN (FIRST FLOOR)

SCALE · 1/4" = 1'-0"



ENLARGED CORE PLAN (TYP.)

SCALE: 1/4" = 1'-0"

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

ENLARGED PLANS & DETAILS

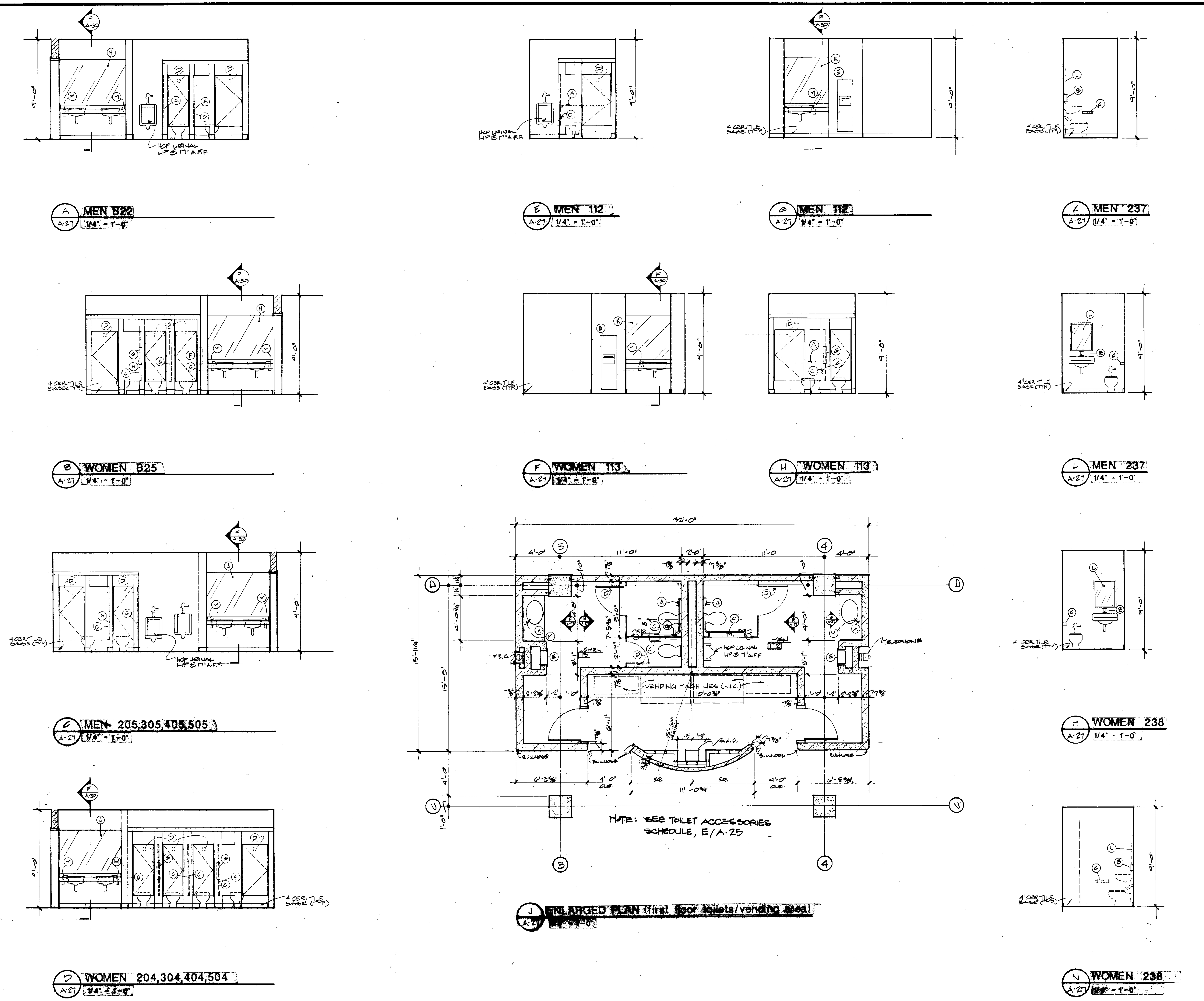
Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-1351

JOB NO.	8706
DATE	10-1-87
DRAWN	STAFF
CHECKED	CEB
FILE NO.	4310

REVISIONS

SHEET

A•26



ROBOTICS FACILITY

LEXINGTON CAMPUS

UNIVERSITY OF KENTUCKY

LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by

director design and construction division

date 10·19·87

TOILET ELEVATIONS & ENL. PLAN

Sherman·Carter·Barnhart

PARTNERS IN ARCHITECTURE

LEXINGTON FINANCIAL CENTER • SUITE 1900 • 250 W. MAIN • LEXINGTON, KY 40507 • 606-254-1351

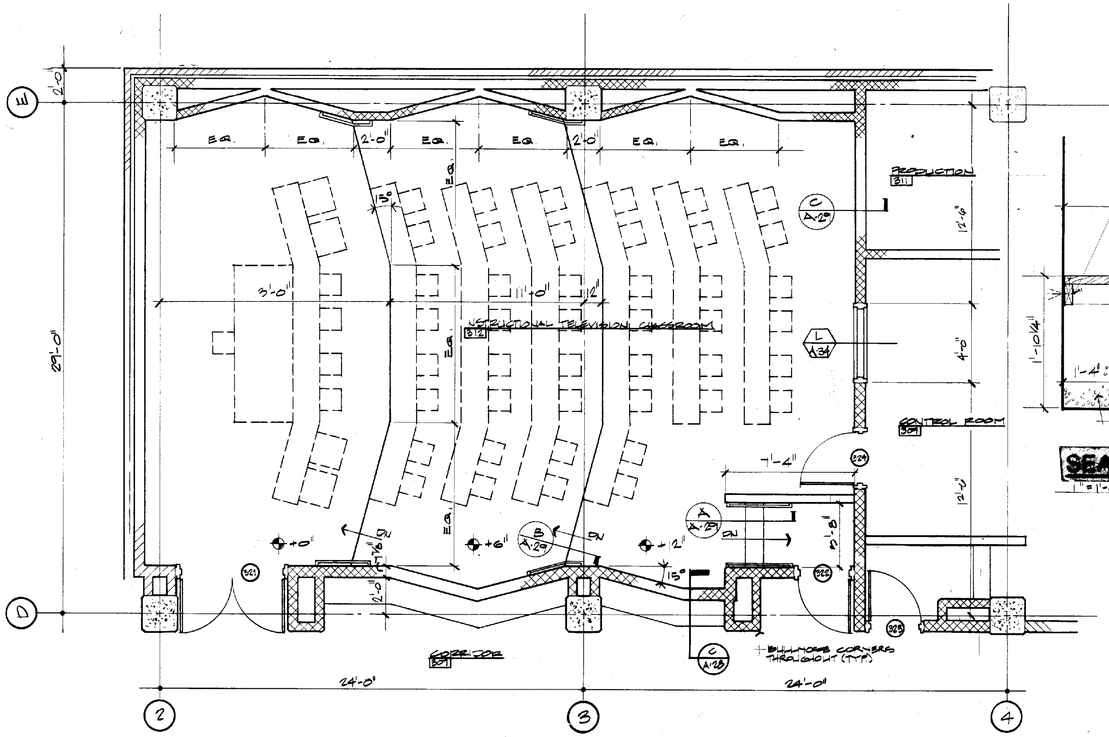
JOB NO.	8706
DATE	10-1-87
DRAWN	STAFF
CHECKED	CEB
FILE NO.	431.0

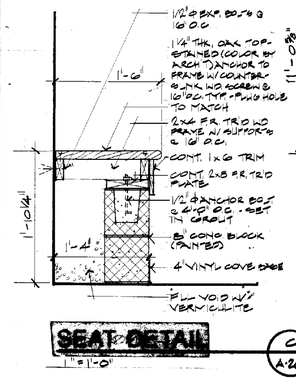
REVISIONS

SHEET

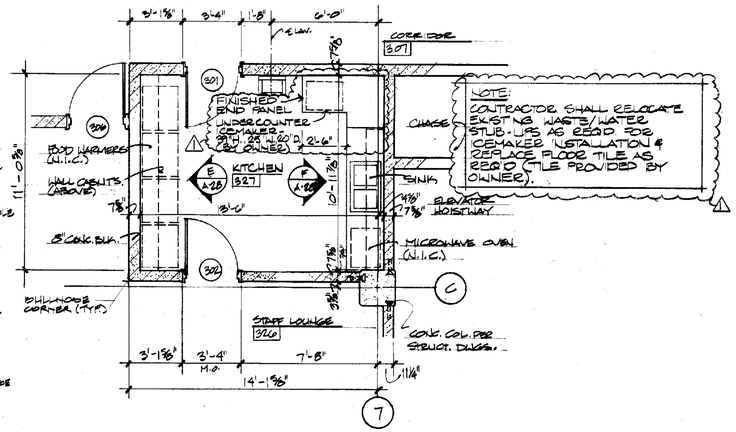
A•27

Cab #	Slot	Document #
82	A-3	004911

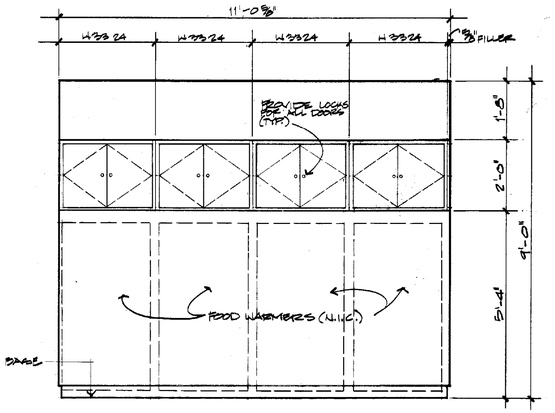




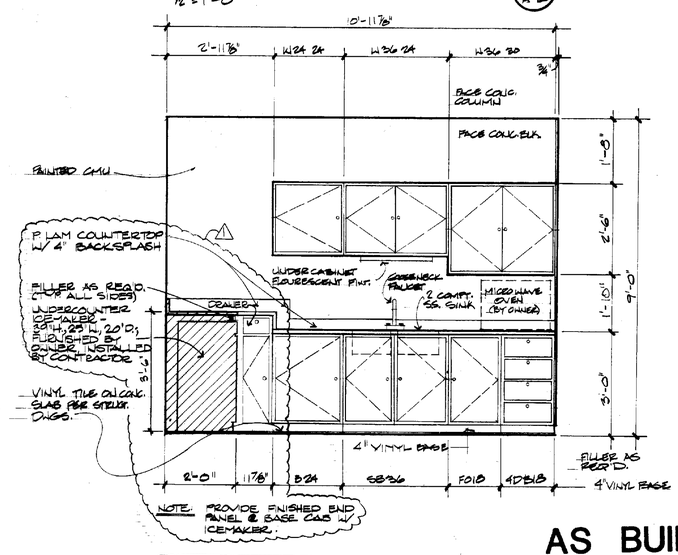
SEAT DETAIL C A-28
1" = 1'-0"



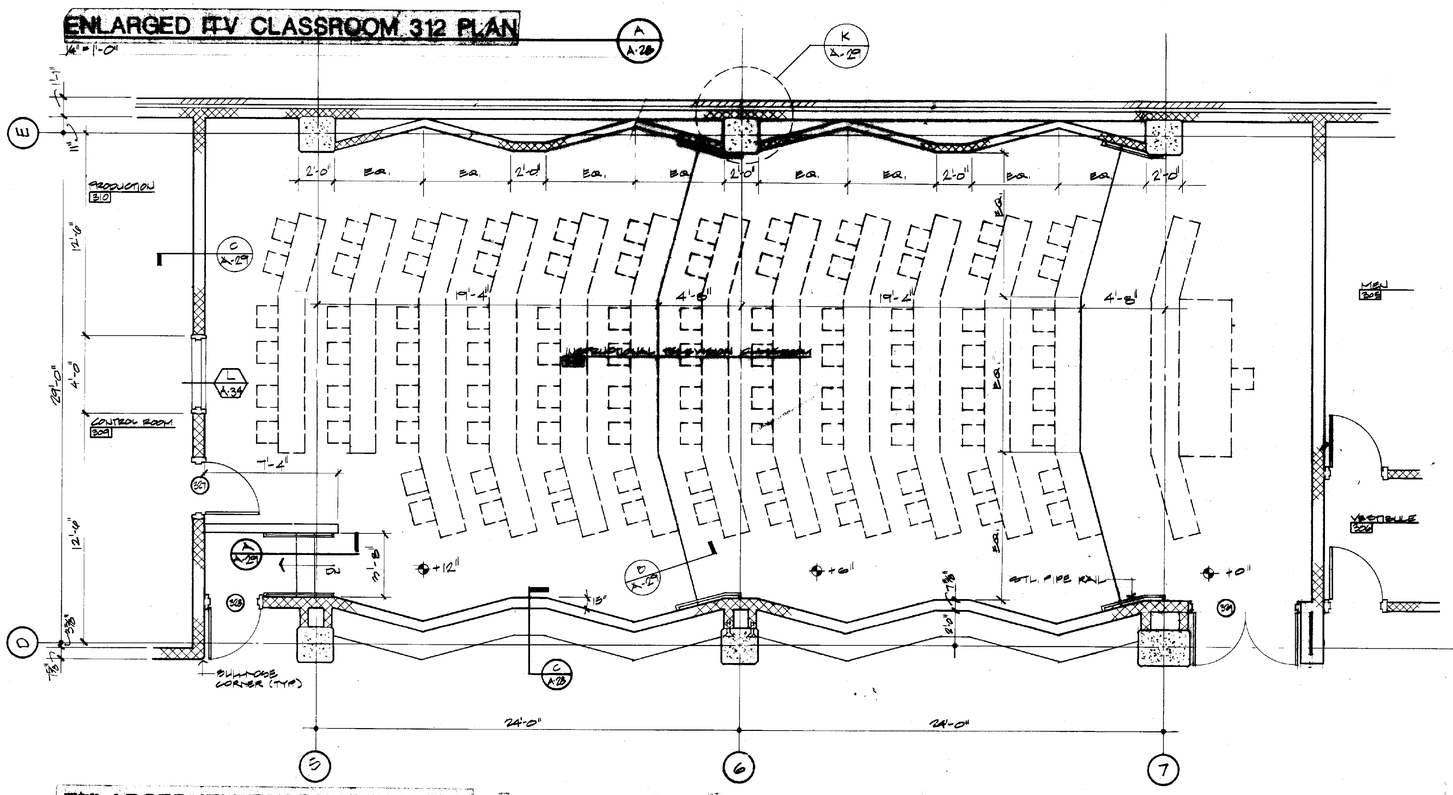
KITCHEN 327 PLAN D A-28
1/4" = 1'-0"



KITCHEN 327 ELEVATION E A-28
1/2" = 1'-0"



AS BUILT



ENLARGED ITV CLASSROOM 312 PLAN
1/4" = 1'-0"

ENLARGED ITV CLASSROOM 308 B A-28
1/4" = 1'-0"

KITCHEN 327 ELEVATION F A-28
1/2" = 1'-0"

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

10-19-87

ENLARGED PLANS & DETAILS

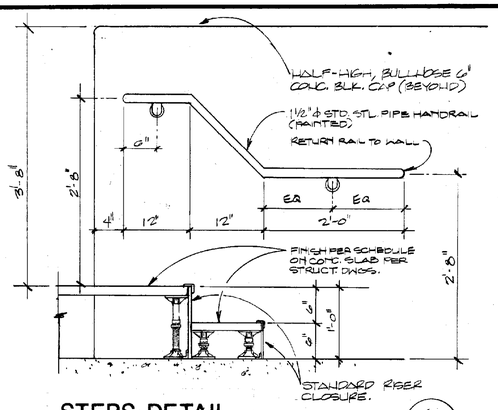
Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
LEXINGTON FINANCIAL CENTER - SUITE 1901 - 250 W. MAIN - LEXINGTON, KY 40507 - 606-254-1501

JOB NO.	8708
DATE	10-1-87
DRAWN	STAFF
CHECKED	CEB
FILE NO.	431.0

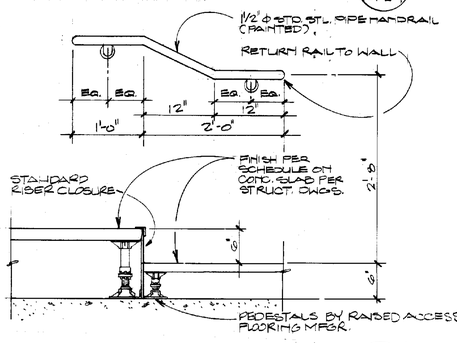
REVISIONS
1 FEB 7, 198

SHEET
A•28

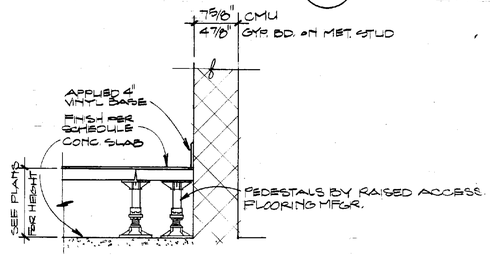
Cab # 82 Sht A-3 Document # 001912



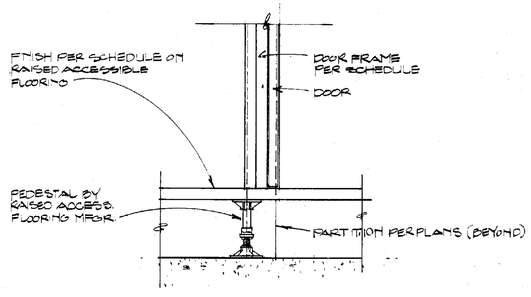
STEPS DETAIL
1"=1'-0" (A 29)



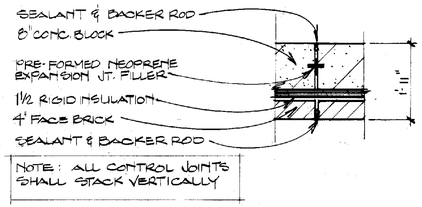
LEVEL CHANGE DETAIL
1"= 1'-0" (B A-29)



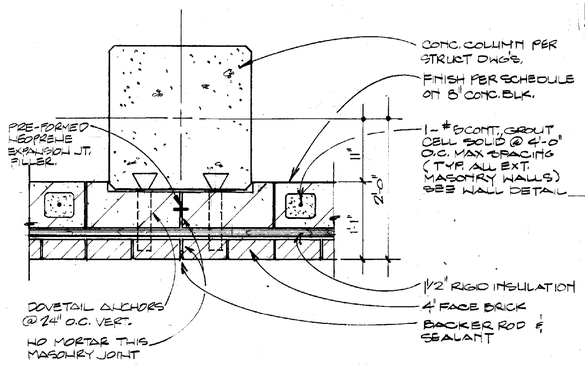
WALL INTERSECTION DETAIL
1"=1'-0" (C A-29)



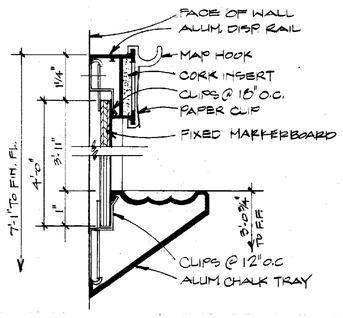
THRESHOLD DETAIL
1"= 1'-0" (D A-29)



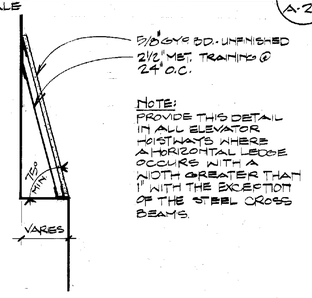
CONTROL JOINT DETAIL
1"= 1'-0" @ NON COLUMN LINE LOCATIONS (E A-29)



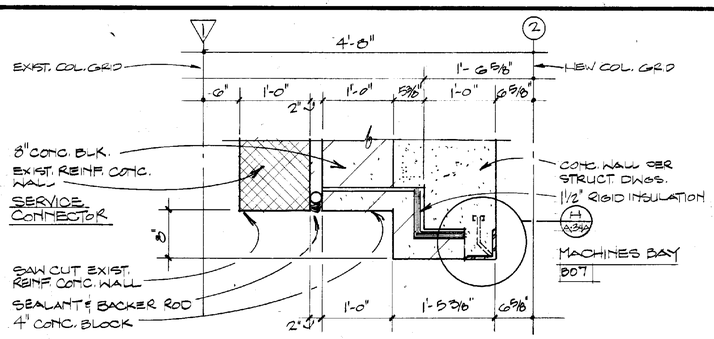
CONTROL JOINT DETAIL
1"= 1'-0" (F A-29)



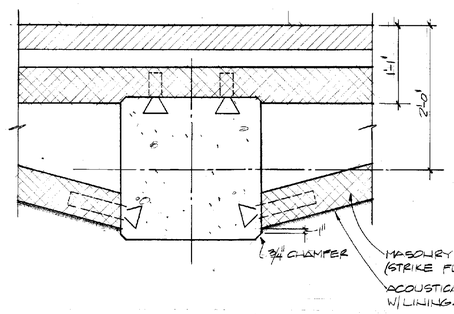
TACK/CHALKBOARD DETAIL
No SCALE (G A-29)



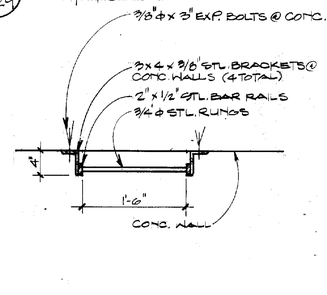
DETAIL
No SCALE (H A-29)



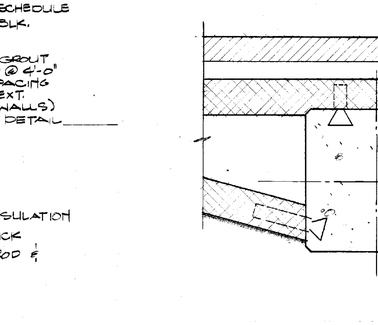
EXPANSION JOINT DETAIL
1"= 1'-0" (J A-29)



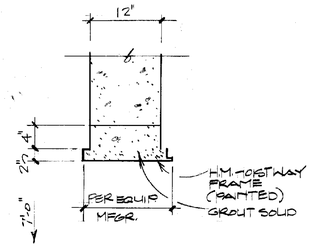
ITV COL/MASONRY W/ WALL COV'G.
1"= 1'-0" (K A-29)



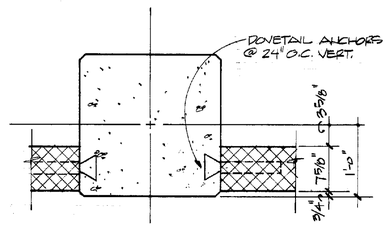
LADDER DETAIL
1"= 1'-0" (L A-29)



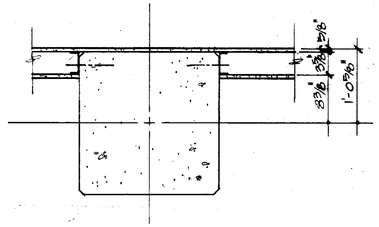
SILL
1"= 1'-0" (M A-29)



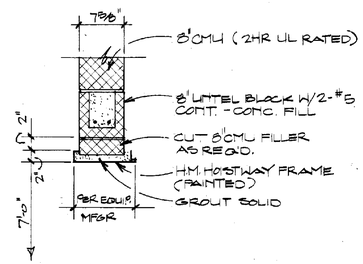
HEAD
1"= 1'-0" (I A-29)



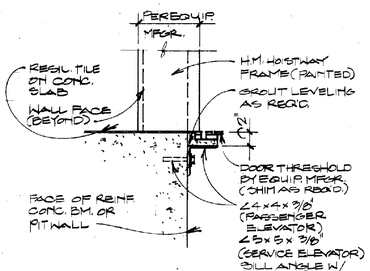
TYPICAL COLUMN DETAIL
1"= 1'-0" (P A-29)



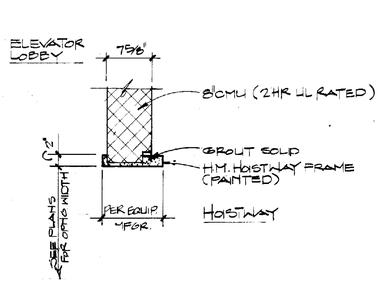
TYPICAL COLUMN DETAIL
(Q A-29)



HEAD
1"= 1'-0" (R A-29)



JAMB
1"= 1'-0" (O A-29)



JAMB
1"= 1'-0" (S A-29)

ELEVATOR HOISTWAY FRAME DETAILS

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

DETAILS

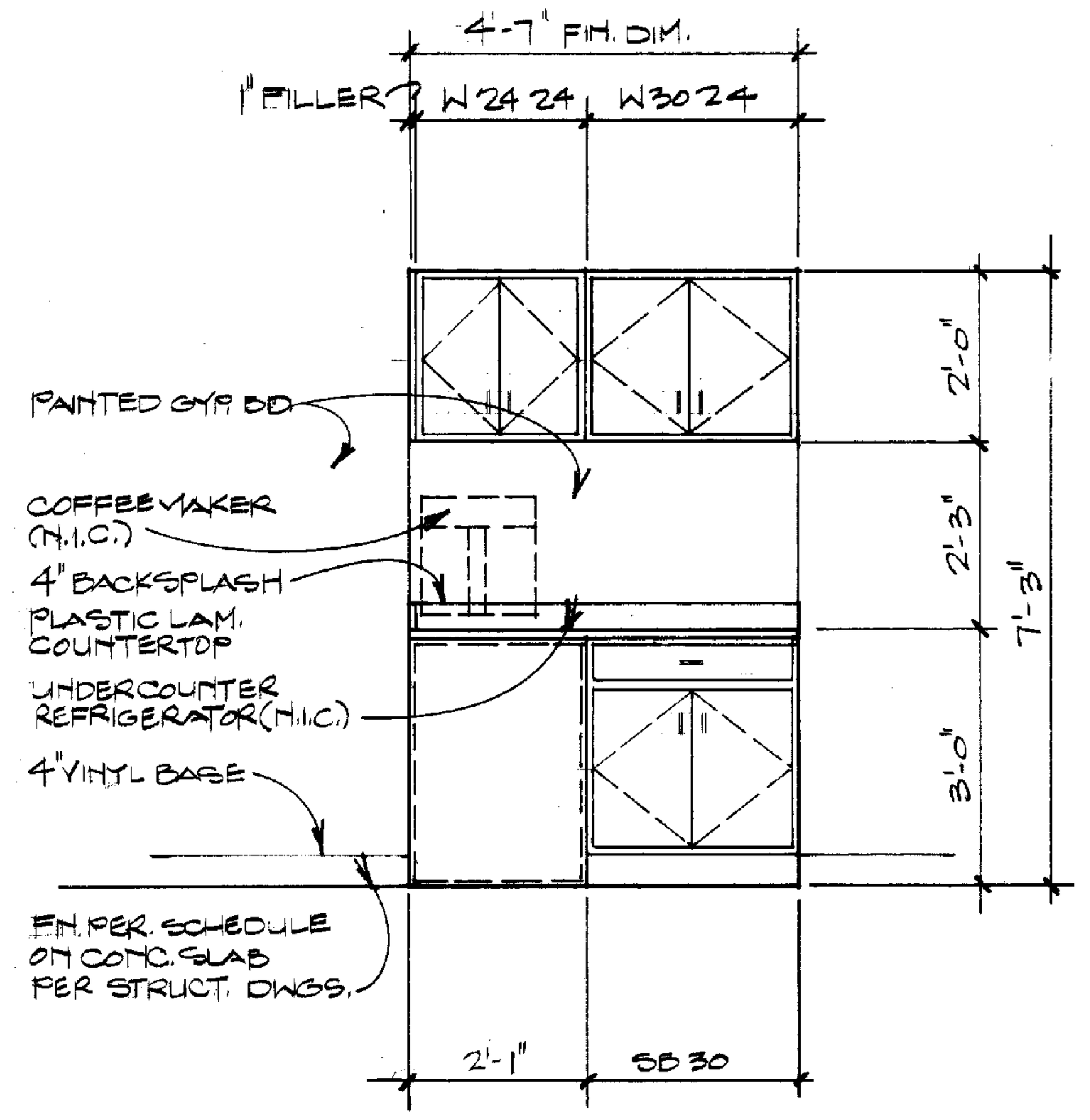
Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
LEXINGTON FINANCIAL CENTER · SUITE 1900 · 250 W. MAIN · LEXINGTON, KY 40507 · 606-254-1551

JOB NO.	8706
DATE	10-1-87
DRAWN	STAFF
CHECKED	CEB
FILE NO.	431.0

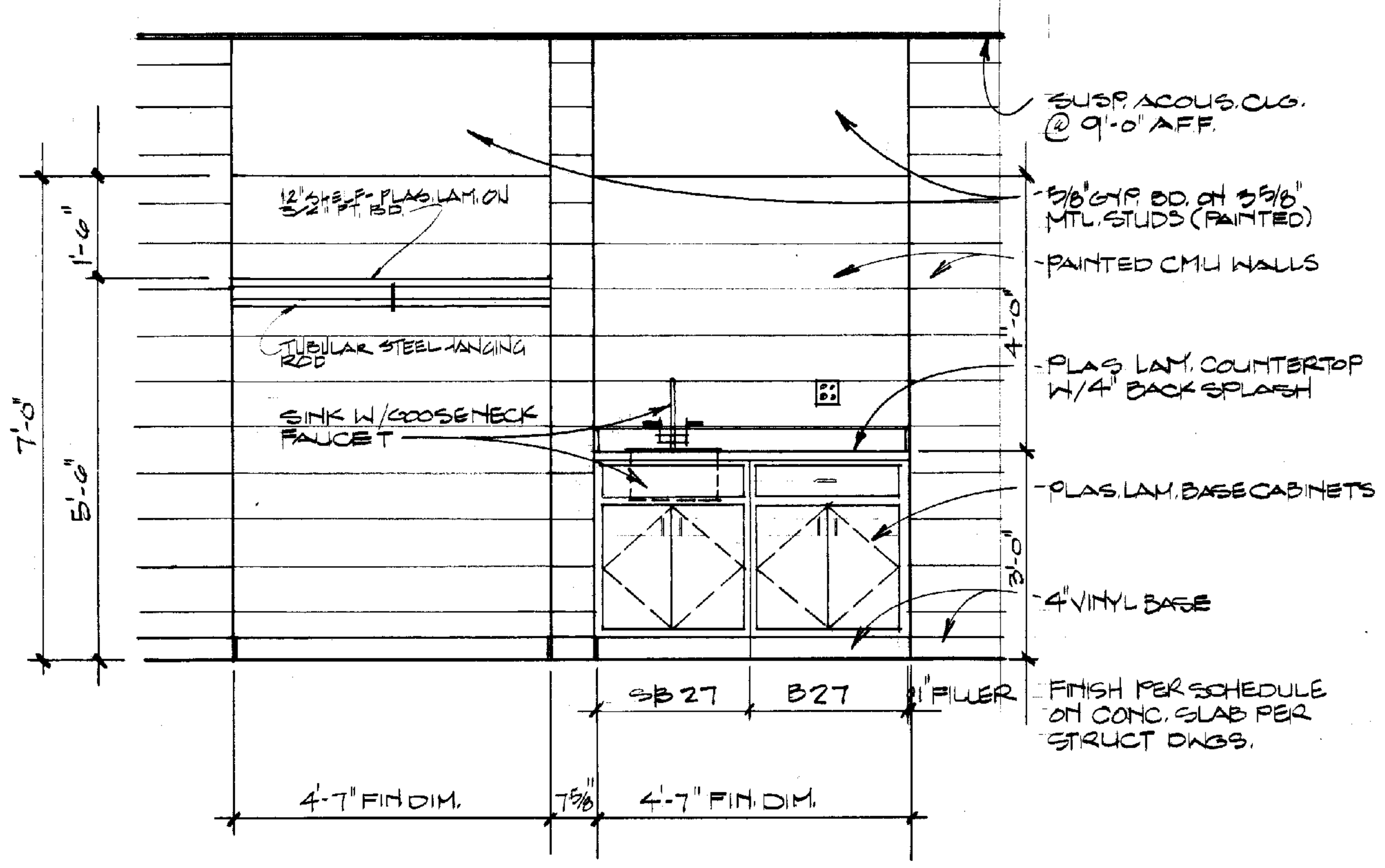
REVISIONS

Cab # Slot Document # 004913

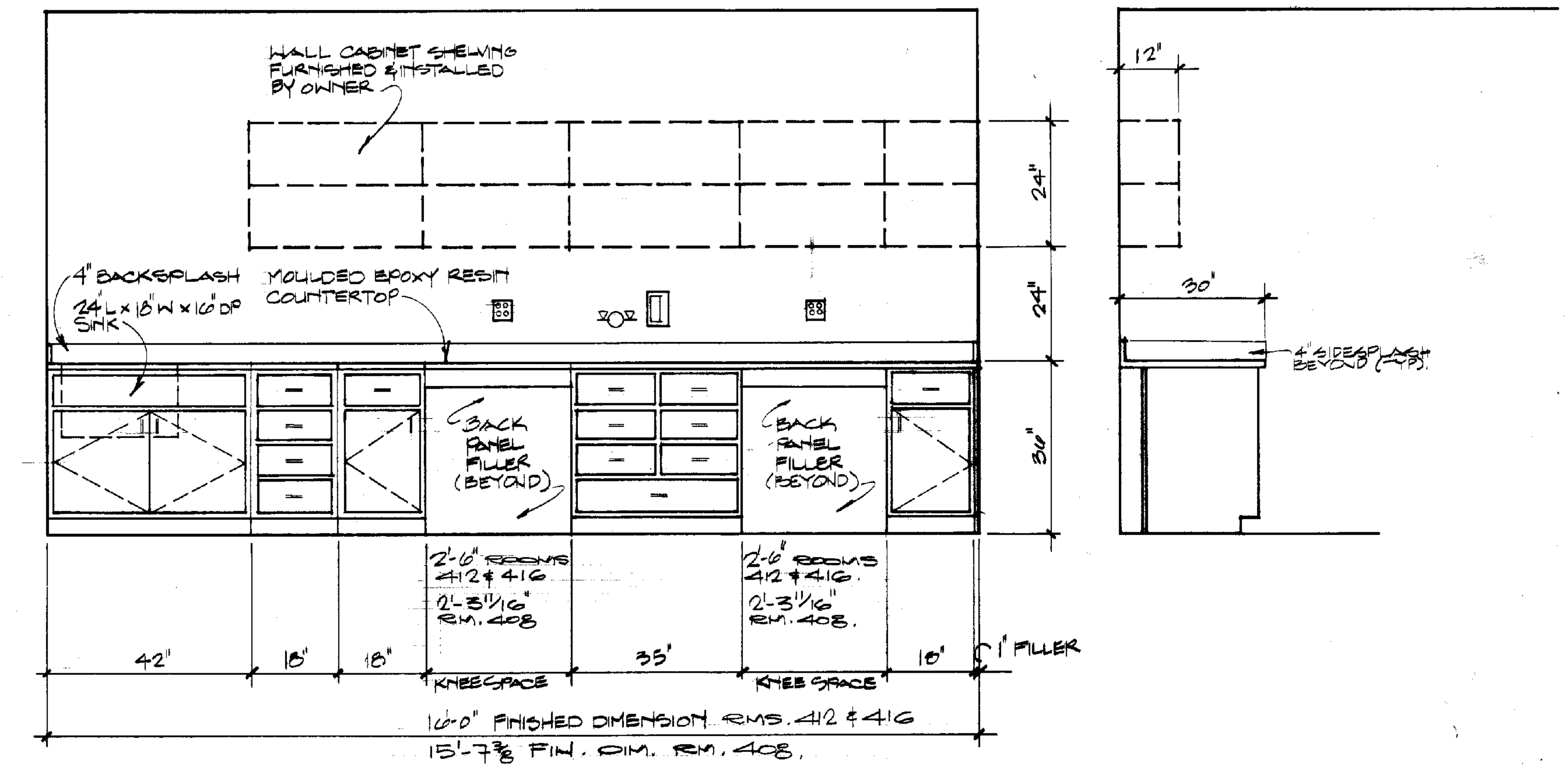
SHEET
A•29



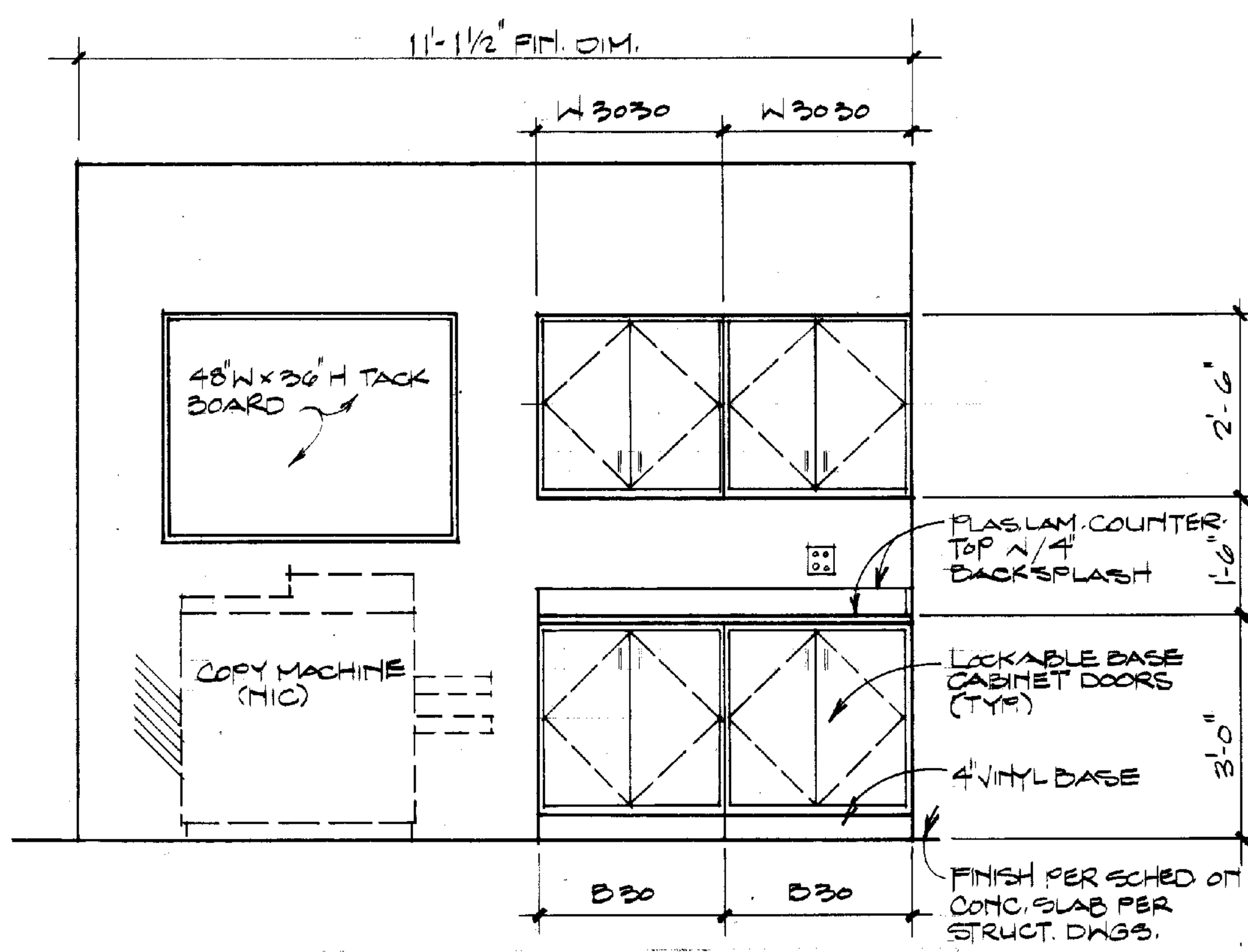
CASEWORK ELEVATION
1/2" = 1'-0"
A / A·30



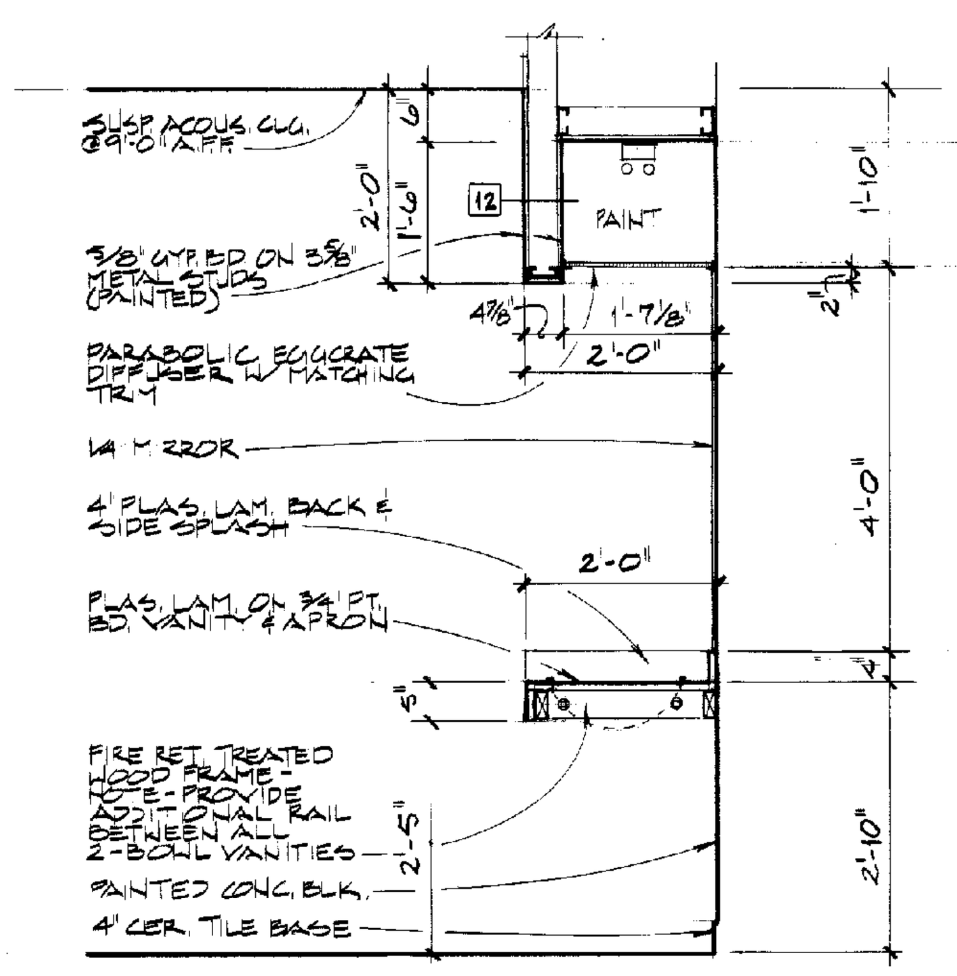
CASEWORK ELEVATION
1/2" = 1'-0"
B / A·30



LABORATORY CASEWORK ELEVATION
1/2" = 1'-0"
C / A·30



WORKROOM CASEWORK ELEVATION
1/2" = 1'-0"
E / A·30



VANITY SECTION
1/2" = 1'-0"
F / A·30

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved by
director design and construction division
10.19.87

CASEWORK ELEVATIONS & DETAILS

Sherman · Carter · Barnhart
PARTNERS IN ARCHITECTURE
LEXINGTON FINANCIAL CENTER · SUITE 1900 · 250 W. MAIN · LEXINGTON, KY 40507 · 606-254-1351

JOB NO.	8706
DATE	10-1-87
DRAWN	STAFF
CHECKED	CES
FILE NO.	431.0

REVISIONS

Cab # 82 Slot A-3 Document # 004914

SHEET
A•30

FINISHES SCHEDULE

Column headings: ROOM (NO., DESCRIPTION) — FLOORS (RES. TILE, CONCRETE, CARPET, CER. TILE, PORCELAIN TILE) — BASE (VINYL COVE, WINDOW WALL, CER. TILE) — WALLS (PAINTED MASONRY, PAINTED GYPBOARD, GLASS/METAL, CER. TILE, ACOUS. WALL COVERING) — CEILINGS (2X2 ACOUSTICAL, 2X4 ACOUSTICAL, EXPOSED STRUCTURE, ANECHOIC BAFFLES / ACOUS. PANELS) — CEILING HEIGHT — REMARKS

NO.	DESCRIPTION	CEILING HEIGHT	REMARKS
B00	ELEVATOR LOBBY	9'-0"	
B01	SERVICE LOBBY	9'-0"	
B02	MECHANICAL	VARIES	① NO BASE
B03	BLDG. OPERATIONS	9'-0"	
B04	WORKROOM/STORAGE	10'-0"	
B05	OFFICE	9'-0"	
B06	OFFICE	9'-0"	
B07	MACHINES BAY	31'-?"	① SEE PLANS & SECTIONS FOR LOCATIONS
B08	CORRIDOR	VARIES	① 9'-0" MIN.
B09	PUMP ROOM	13'-0"	① NO BASE
B10	ELECTRICAL	13'-0"	① NO BASE
B11	COMMUNICATIONS	13'-0"	① NO BASE
B12	SERVICE	8'-8"	① NO BASE
B13	ELECTRICAL EQUIP.	13'-0"	① NO BASE
B14	GENERATOR	13'-0"	① NO BASE
B15	NOT USED		
B16	NOT USED		
B17	LAB	10'-0"	PROVIDE VINYL COVE AROUND B19
B18	LAB	10'-0"	
B19	TESTING CHAMBER	—	① PER TESTING CHAMBER EQUIP. MFGR. (NIC)
B20	STORAGE	9'-0"	
B21	VESTIBULE	8'-0"	
B22	MEN	9'-0"	
B23	JANITOR	16'-6"	
B24	VESTIBULE	8'-0"	
B25	WOMEN	9'-0"	
100	VESTIBULE	9'-8"	① COCOA MAT
101	FOYER	9'-8"	① PORCELAIN BASE @ MAS. WALLS
102	ELEVATOR LOBBY	9'-8"	① PORCELAIN BASE @ MAS. WALLS
103	SERVICE LOBBY	15'-0"	① NO BASE
104	SERVICE AREA	15'-0"	① NO BASE
105	TRUCK BAY	18'-0"	① NO BASE
106	RECEIVING	15'-0"	① NO BASE
107	RECEIVING OFFICE	9'-0"	① NO BASE
108	STORAGE	15'-0"	① NO BASE
109	RECEPTION/DISPLAY	9'-8"	① PORCELAIN @ MAS. WALLS
110	MEN	9'-0"	
111	VENDING	8'-0"	① PORCELAIN @ MAS. WALLS
112	CORRIDOR	9'-8"	① PORCELAIN @ MAS. WALLS
113	WOMEN	9'-0"	
114	STUDENT COMMONS	9'-8"	① PORCELAIN @ MAS. WALLS
115	FAN ROOM	15'-0"	① NO BASE
116	ELECTRICAL	15'-0"	① NO BASE
117	COMMUNICATIONS	15'-0"	① NO BASE
118	FIRE CONTROL	15'-0"	① NO BASE
119	CLOSET	8'-0"	PORCELAIN @ MAS. WALLS

NO.	DESCRIPTION	CEILING HEIGHT	REMARKS
200	ELEVATOR LOBBY	9'-0"	
201	SERVICE LOBBY	9'-0"	
202	VESTIBULE	8'-0"	
203	JANITOR	15'-0"	
204	WOMEN	9'-0"	
205	MEN	9'-0"	
206	VESTIBULE	8'-0"	
207	CORRIDOR	9'-0"	
208	VISITOR OFFICE	9'-0"	
209	GRAPHICS WORKSTATION	9'-0"	
210	VISITOR OFFICE	9'-0"	
211	VISITOR OFFICE	9'-0"	
212	VISITOR OFFICE	9'-0"	
213	VISITOR OFFICE	9'-0"	
214	VISITOR OFFICE	9'-0"	
215	VISITOR OFFICE	9'-0"	
216	VISITOR OFFICE	9'-0"	
217	VISITOR OFFICE	9'-0"	
218	STORAGE	9'-0"	
219	COMPUTER OFFICE	9'-0"	
220	VISITOR OFFICE	9'-0"	
221	SEMINAR	9'-0"	
222	CORRIDOR	9'-0"	
223	FAN ROOM	15'-0"	① NO BASE
224	ELECTRICAL	15'-0"	① NO BASE
225	COMMUNICATIONS	15'-0"	① NO BASE
226	PROJECT DIRECTOR	9'-0"	① STRAIGHT
227	PROJECT DIRECTOR	9'-0"	① STRAIGHT
228	PROJECT DIRECTOR	9'-0"	① STRAIGHT
229	PROJECT DIRECTOR	9'-0"	① STRAIGHT
230	PROJECT DIRECTOR	9'-0"	① STRAIGHT
231	SECRETARY/WAITING	9'-0"	① STRAIGHT
232	WORKROOM	9'-0"	① STRAIGHT
233	IND. LIAISON	9'-0"	① STRAIGHT
234	CONT. ED. EXTENSION	9'-0"	① STRAIGHT
235	PROJECT ENGINEER	9'-0"	① STRAIGHT
236	SECRETARY/WAITING	9'-0"	① STRAIGHT
237	MEN	8'-0"	
238	WOMEN	8'-0"	
239	CORRIDOR	9'-0"	① STRAIGHT
240	BUSINESS	9'-0"	① STRAIGHT
241	DIRECTOR	9'-0"	① STRAIGHT
242	CONFERENCE	9'-0"	① STRAIGHT
243	PROJECT ENGINEER	9'-0"	① STRAIGHT
244	PROJECT ENGINEER	9'-0"	① STRAIGHT
245	PROJECT ENGINEER	9'-0"	① STRAIGHT

NO.	DESCRIPTION	CEILING HEIGHT	REMARKS
300	ELEVATOR LOBBY	9'-0"	
301	SERVICE LOBBY	9'-0"	
302	VESTIBULE	8'-0"	
303	JANITOR	15'-0"	
304	WOMEN	9'-0"	
305	MEN	9'-0"	
306	VESTIBULE	8'-0"	
307	CORRIDOR	9'-0"	
308	ITV CLASSROOM	10'-0" MIN.	① ON RAISED FLOORING ② @ CARPET, COVE & RES. TILE STRAIGHT
309	CONTROL ROOM	10'-0"	① ON RAISED FLOORING ② STRAIGHT @ CARPET
310	PRODUCTION	9'-0"	① ON RAISED FLOORING
311	PRODUCTION	9'-0"	① ON RAISED FLOORING
312	ITV CLASSROOM	10'-0" MIN.	① ON RAISED FLOORING ② AT CARPET COVE & RES. TILE, STRAIGHT
313	FAN ROOM	15'-0"	① NO BASE
314	ELECTRICAL	15'-0"	① NO BASE
315	COMMUNICATIONS	15'-0"	① NO BASE
316	CORRIDOR	9'-0"	
317	TAPE VIEWING	9'-0"	
318	TAPE STORAGE	9'-0"	
319	CORRIDOR	9'-0"	
320	RESEARCH ASSISTANT	9'-0"	
321	RESEARCH ASSISTANT	9'-0"	
322	RESEARCH ASSISTANT	9'-0"	
323	RESEARCH ASSISTANT	9'-0"	
324	COMPUTER OFFICE	9'-0"	
325	PERSONNEL COMPUTERS	9'-0"	
326	STAFF LOUNGE	9'-0"	① STRAIGHT @ CARPET
327	KITCHEN	9'-0"	

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved by — director · design and construction division — date 10-19-87

ROOM FINISH SCHEDULE

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606-254-1351

JOB NO.	8706
DATE	10-1-87
DRAWN	STAFF
CHECKED	CEB
FILE NO.	431.0

REVISIONS

SHEET A•31

FINISHES SCHEDULE

ROOM NO.	ROOM DESCRIPTION	FLOORS: RES. TILE	CONCRETE	CARPET	CER. TILE	PORCELAIN TILE	BASE: VINYL COVE	WINDOW WALL	CER. TILE	WALLS: PAINTED MASONRY	PAINTED GYPBOARD	GLASS/METAL	CER. TILE	ACOUS. WALL COVERING	CEILINGS: 2X2 ACOUSTICAL	2X4 ACOUSTICAL	EXPOSED STRUCTURE	ANECHOIC BAFFLES	CEILING HEIGHT	REMARKS
400	ELEVATOR LOBBY	●					⊗	⊗		⊗	⊗	⊗			●				9'-0"	
401	SERVICE LOBBY	●					⊗	⊗		⊗	⊗	⊗			●				9'-0"	
402	VESTIBULE				●				●	●					●				8'-0"	
403	JANITOR	●					●			●							●		15'-0"	
404	WOMEN				●				●	◐			⊗		●				9'-0"	
405	MEN				●				●	◐			⊗		●				9'-0"	
406	VESTIBULE				●				●	●					●				8'-0"	
407	CORRIDOR	●					⊗			⊗					●				9'-0"	
408	LAB	●					●			●					●				10'-0"	
409	VISITOR OFFICE	●					●			●					●				9'-0"	
410	VISITOR OFFICE	●					●			●					●				9'-0"	
411	VISITOR OFFICE	●					●			●					●				9'-0"	
412	LAB	●					●			●					●				10'-0"	
413	VISITOR OFFICE	●					●			●					●				9'-0"	
414	FOYER	●					●			◐					●				9'-0"	
415	VISITOR OFFICE	●					●			●					●				9'-0"	
416	LAB	●					●			●					●				10'-0"	
417	VISITOR OFFICE	●					●			●					●				9'-0"	
418	VISITOR OFFICE	●					●			●					●				9'-0"	
419	VISITOR OFFICE	●					●			●					●				9'-0"	
420	FAN ROOM		●				①			●							●		15'-0"	① NO BASE
421	ELECTRICAL		●				①			●							●		15'-0"	① NO BASE
422	COMMUNICATIONS		●				①			●							●		15'-0"	① NO BASE
423	CORRIDOR	●					●			◐	⊗	⊗			●				9'-0"	
424	LAB	●					●			●					●				9'-0"	
425	LAB	●					●			◐	⊗	⊗			●				9'-0"	
426	LAB	●					●			●					●				9'-0"	
427	LAB	●					●			◐	⊗	⊗			●				9'-0"	
428	LAB	●					●			●					●				9'-0"	
429	LAB	●					●			◐	⊗	⊗			●				9'-0"	
430	CORRIDOR	●					●			◐	⊗	⊗			●				9'-0"	
431	LAB	●					●			◐	⊗	⊗			●				9'-0"	
432	LAB	●					●			●					●				9'-0"	
433	LAB	●					●			◐	⊗	⊗			●				9'-0"	
434	LAB	●					●			◐	⊗	⊗			●				9'-0"	
435	LAB	●					●			●					●				9'-0"	
436	LAB	●					●			●					●				9'-0"	
437	LAB	●					●			◐	⊗	⊗			●				9'-0"	
438	LAB	●					●			⊗	⊗	⊗			●				9'-0"	
439	LAB	●					●			◐	⊗	⊗			●				9'-0"	
440	LAB	●					●			●					●				9'-0"	

ROOM NO.	ROOM DESCRIPTION	FLOORS: RES. TILE	CONCRETE	CARPET	CER. TILE	PORCELAIN TILE	BASE: VINYL COVE	WINDOW WALL	CER. TILE	WALLS: PAINTED MASONRY	PAINTED GYPBOARD	GLASS/METAL	CER. TILE	ACOUS. WALL COVERING	CEILINGS: 2X2 ACOUSTICAL	2X4 ACOUSTICAL	EXPOSED STRUCTURE	ANECHOIC BAFFLES	CEILING HEIGHT	REMARKS
500	ELEVATOR LOBBY	●					⊗	⊗		⊗	⊗	⊗			●				9'-0"	
501	SERVICE LOBBY	●					⊗	⊗		⊗	⊗	⊗			●				9'-0"	
502	VESTIBULE				●				●	●					●				8'-0"	
503	JANITOR	◐					●			●							●		15'-0"	
504	WOMEN				●				●	◐			⊗		●				9'-0"	
505	MEN				●				●	◐			⊗		●				9'-0"	
506	VESTIBULE				●				●	●					●				8'-0"	
507	CORRIDOR	●					⊗			⊗					●				9'-0"	
508	LAB	●					●			●					●				10'-0"	
509	LAB	●					●			●					●				10'-0"	
510	LAB	●					●			●					●				10'-0"	
511	LAB	●					●			●					●				10'-0"	
512	LAB	●					●			●					●				10'-0"	
513	LAB	●					●			●					●				10'-0"	
514	LAB	●					●			●					●				10'-0"	
515	LAB	●					●			●					●				10'-0"	
516	FAN ROOM		●				①			●							●		15'-0"	① NO BASE
517	ELECTRICAL		●				①			●							●		15'-0"	① NO BASE
518	COMMUNICATIONS		●				①			●							●		15'-0"	① NO BASE
519	CORRIDOR	●					●			⊗	⊗	⊗			●				9'-0"	
520	LAB TECHNICIANS	●					●			●					●				10'-0"	
521	CORRIDOR	●					●			◐	⊗	⊗			●				9'-0"	
522	EXT. ENGINEER	●					●				●	⊗			●				9'-0"	
523	EXT. ENGINEER	●					●				●	⊗			●				9'-0"	
524	EXT. ENGINEER	●					●				●	⊗			●				9'-0"	
525	EXT. ENGINEER	●					●				●	⊗			●				9'-0"	
526	EXT. ENGINEER	●					●				●	⊗			●				9'-0"	
527	EXT. ENGINEER	●					●				●	⊗			●				9'-0"	
528	EXT. ENGINEER	●					●				●	⊗			●				9'-0"	
529	EXT. ENGINEER	●					●				●	⊗			●				9'-0"	
530	LAB TECHNICIANS	●					●			●					●				10'-0"	
531	SEMINAR	●					●			◐	⊗	⊗			●				9'-0"	
532	LAB STORAGE	●					●			●					●				9'-0"	

ROOM NO.	ROOM DESCRIPTION	FLOORS: RES. TILE	CONCRETE	CARPET	CER. TILE	PORCELAIN TILE	BASE: VINYL COVE	WINDOW WALL	CER. TILE	WALLS: PAINTED MASONRY	PAINTED GYPBOARD	GLASS/METAL	CER. TILE	ACOUS. WALL COVERING	CEILINGS: 2X2 ACOUSTICAL	2X4 ACOUSTICAL	EXPOSED STRUCTURE	ANECHOIC BAFFLES	CEILING HEIGHT	REMARKS
600	CORRIDOR		●				◐	⊗		⊗	⊗	⊗					●		15'-0"	
601	ELEVATOR EQUIP.		●				①			⊗	⊗						●		15'-0"	① NO BASE
602	MECHANICAL		●				●			⊗	⊗						●		15'-0"	
603	ELEVATOR EQUIP		●				①			⊗	⊗						●		15'-0"	① NO BASE
A	STAIR		●				①			●							●		VARIES	① NO BASE
B	STAIR		●				①			●							●		VARIES	① NO BASE

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved by [signature] 10-19-87
director · design and construction division

ROOM FINISH SCHEDULE

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606 254-1351

JOB NO.	8706
DATE	10-1-87
DRAWN	STAFF
CHECKED	CEB
FILE NO.	431.0

REVISIONS

SHEET
A•32

DOOR AND FRAME SCHEDULE

DOORS						FRAMES					MISCELLANEOUS				
NO.	SIZE	THICK	MATL	GA.	ELEV	ELEV.	MATL	GA	HEAD	JAMB	THRES	LBL	HDW	CLOS	REMARKS
B00	3°×7°	1¾"	HM	16	NV	B	HM	14	3/A·34	①	—	B	8	90°	① 17/A·34 & 14/A·34
B01	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	9	90°	① 9/A·34 & 4/A·34
B02	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	10	90°	① 4/A·34 & 17/A·34 SIM.
B03	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	B	11	90°	① 1/A·33 & 4/A·34
B04	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	9	90°	① 4/A·34 & 9/A·34
B05	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	10	90°	① 1/A·33 & 4/A·34
B06	3°×7°	1¾"	HM	16	F	B	HM	14	3/A·34	①	—	—	12	90°	① 9/A·34 & 4/A·34
B07	2-4°×7°	1¾"	HM	16	F	G	HM	14	6/A·33	4/A·34	—	—	13	90°	
B08	2-4°×7°	1¾"	HM	16	F	G	HM	14	6/A·33	4/A·34	—	—	14	105	
B09	NOT	USED											15		
B10	NOT	USED											16		
B11	2-3°×7°	1¾"	HM	16	F	E	HM	14	2/A·33	①	—	—	17	②	① 9/A·34 & 4/A·34 ② 90° & 105°
B12	2-3°×7°	1¾"	HM	16	F	E	HM	14	2/A·33	①	—	B	18	90°	① 1/A·33 & 9/A·34
B13	10°×8°		HM*	24	—				G/A·34A	H/A·34A	—	—	3	—	* INSULATED
B14	3°×7°	1¾"	HM*	16	F	B	HM	14	4/A·33	①	4/A·34A	—	1	90°	* INSULATED ① 3/A·33 & 3/A·33 SIM.
B15	2-3°×7°	1¾"	HM	16	F	E	HM	14	10/A·34	14/A·34		B	8	105°	
B16	3°×7°	1¾"	HM	16	NV	B	HM	14	18/A·34	①	—	B	8	90°	① 14/A·34 & 17/A·34
B17	3°×7°	1¾"	HM	16	F	B	HM	14	18/A·34	14/A·24	—	—	19	90°	
B18	3°×7°	1¾"	HM	16	F	B	HM	14	18/A·34	14/A·34	—	B	19	90°	
B19	2-3°×7°	1¾"	HM	16	F	E	HM	14	18/A·34	14/A·34	—	B	17	①	① 90° & 105°
B20	10°×8°		HM*	24	—	—			G/A·34A	H/A·34A		B	3	—	* INSULATED
B21	3°×7°	1¾"	HM	16	F	B	HM	14	3/A·34	①	—	B	20	90°	① 10/A·34 & 4/A·34
B22	2-3°×7°	1¾"	HM	16	NV	E	HM	14	3/A·34	①	—		21	90°	① 1/A·33 & 4/A·34
B23	3°×7°	1¾"	HM*	16	F	B	HM	14	4/A·33	3/A·33	4/A·34A	B	2	105°	* INSULATED
B24	8°×8°		HM*	24	—	—			G/A·34A	H/A·34A	—	B	3	—	* INSULATED
B25	2-4°×7⁹*	1¾"	HM	16	NV	K	HM	14	15/A·34 SIM	15/A·34	—	—	22	180°	* NOM. DIM.
B26	3°×7°	1¾"	HM	16	HV	D	HM	14	6/A·33	①	—	—	16	—	① 15/A·34 & 4/A·34
B27	3°×7°	1¾"	HM	16	HV	D	HM	14	6/A·33	①	—	—	16	—	① 15/A·34 & 4/A·34
B28	3°×7°	1¾"	HM	16	F	B	HM	14	3/A·34	①	—	—	23	90°	① 10/A·34 & 4/A·34
B29	3°×7°	1¾"	HM	16	F	B	HM	14	3/A·34	①	—	—	23	90°	① 10/A·34 & 4/A·34
B30	2-3°×7°	1¾"	HM	16	F	E	HM	14	2/A·33	4/A·34	—	B	17	105°	
100	3°×7°	1¾"	HM*	16	F	B	HM	14	1/A·34	3/A·34	5/A·34A	—	1	90°	* INSULATED
101	3°×7°	1¾"	HM	16	NV	B	HM	14	3/A·34	①	—	B	8	90°	① 4/A·34 & 10/A·34
102	3°×7°	1¾"	HM*	16	F	B	HM	14	1/A·34	2/A·34	3/A·34A	B	8	90°	* INSULATED
103	2-3°×7°	1¾"	HM	16	F	E	HM	14	2/A·33	4/A·34	—	—	14	105°	
104	3°×7°	1¾"	HM*	16	F	B	HM	14	1/A·34	2/A·34	5/A·34A	—	1	105°	* INSULATED
105	12°×12°		HM*	24	—	—	—	—	J/A·34A	K/A·34A	—	—	3	—	* INSULATED
106	3°×7°	1¾"	HM	16	HV	C	HM	14	2/A·33	①	—	—	23	—	① 9/A·34 & 15/A·34
107	3°×7°	1¾"	HM	16	F	B	HM	14	3/A·34	4/A·34	—	—	23	—	
108	2-5°×12⁹	1¾"	HM	16	NV	H	HM	14	16/A·34 SIM	4/A·34	—	—	24	—	
109	2-3°×8°	1¾"	ALUM	—	FV	D/A·36 SIM.	ALUM*	—	5/A·33	5/A·33		—	25	105°	* WINDOW WALL
110	2-3°×8°	1¾"	ALUM	—	FV	D/A·36	ALUM*	—	5/A·33	5/A·33	6/A·34A	—	4	108°	* WINDOW WALL
111	2-3°×8°	1¾"	ALUM	—	FV	D/A·36	ALUM*	—	5/A·33	5/A·33	5/A·34A	—	37	108°	* WINDOW WALL
112	2-3°×8°	1¾"	ALUM	—	FV	D/A·36 SIM.	ALUM*	—	5/A·33	5/A·33	—	—	38	108°	* WINDOW WALL
113	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	9	90°	① 4/A·34 & 10/A·34
114	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	9	90°	① 4/A·34 & 10/A·34
115	3°×8°	1¾"	ALUM	—	FV	9/A·36	ALUM*	—	5/A·33	5/A·33	6/A·34A	—	5	108°	* WINDOW WALL
116	2-3°×7°	1¾"	HM*	16	F	E	HM	14	2/A·33	4/A·34	6/A·34A	B	6	105°	* INSULATED
117	3°×7°	1¾"	HM*	16	F	B	HM	14	3/A·34	4/A·34	5/A·34A	B	7	90°	* INSULATED
118	3°×7°	1¾"	HM*	16	F	B	HM	14	3/A·34	4/A·34	6/A·34A	—	7	90	* INSULATED
119	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—		12	105°	
120	2-3°×8°	1¾"	ALUM.	—	FV	D/A·36 SIM.	ALUM*	—	5/A·33	5/A·33	—	—	36	105°	* WINDOWALL
121	2-3°×7°	1¾"	SCWD.	—	F	B	HM.	14	4/A·33	4/A·33	—	—	39	—	
200	3°×7°	1¾"	H.M.	16	NV	B	HM	14	3/A·34	①	—	B	8	90°	① 10/A·34 & 4/A·34
201	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—	—	26	105°	
202	3°×7°	1¾"	SCWD	—	F	A	HM	14	5/A·34	6/A·34	—	—	27	90°	
203	3°×7°	1¾"	SCWD	—	F	A	HM	14	5/A·34	6/A·34	—	—	16	—	
204	3°×7°	1¾"	SCWD	—	F	A	HM	14	5/A·34	6/A·34	—	—	27	90°	
205	3°×7°	1¾"	SCWD	—	F	A	HM	14	5/A·34	6/A·34	—	—	16	—	
206	3°×7°	1¾"	SCWD	—	F	A	HM	14	5/A·34	6/A·34	—	—	16	—	
207	3°×7°	1¾"	SCWD	—	F	A	HM	14	5/A·34	6/A·34	—	—	16	—	
208	3°×7°	1¾"	SCWD	—	F	A	HM	14	5/A·34	6/A·34	—	—	16	—	
209	3°×7°	1¾"	SCWD	—	F	A	HM	14	5/A·34	6/A·34	—	—	16	—	
210	3°×7°	1¾"	SCWD	—	F	A	HM	14	5/A·34	6/A·34	—	—	16	—	
211	3°×7°	1¾"	SCWD	—	F	A	HM	14	5/A·34	6/A·34	—	—	16	—	
212	3°×7°	1¾"	SCWD	—	F	A	HM	14	5/A·34	6/A·34	—	—	16	—	
213	3°×7°	1¾"	SCWD	—	F	C	HM	14	2/A·33	①	—	—	26	90°	① 10/A·34 & 15/A·34
214	3°×7°	1¾"	SCWD	—	F	C	HM	14	2/A·33	①	—	—	26	90°	① 10/A·34 & 15/A·34
215	3°×7°	1¾"	SCWD	—	F	A	HM	14	5/A·34	6/A·34	—	—	16	—	
216	3°×7°	1¾"	SCWD	—	F	A	HM	14	5/A·34	6/A·34	—	—	16	—	
217	3°×7°	1¾"	SCWD	—	F	A	HM	14	5/A·34	6/A·34	—	—	16	—	
218	3°×7°	1¾"	SCWD	—	F	A	HM	14	5/A·34	6/A·34	—	—	16	—	
219	3°×7°	1¾"	SCWD	—	F	A	HM	14	5/A·30	6/A·34	—	—	16	—	
220	3°×7°	1¾"	SCWD	—	NV	B	HM	14	3/A·34	①	—	—	26	90°	① 4/A·34 & 10/A·34
221	3°×7°	1¾"	H.M.	16	NV	B	HM	14	3/A·34	9/A·34	—	B	8	90°	
222	3°×7°	1¾"	H.M.	16	F	B	HM	14	3/A·34	①	—	—	7	90°	① 4/A·34 & 10/A·34
223	3°×7°	1¾"	H.M.	16	F	B	HM	14	3/A·34	①	—	B	7	90°	① 4/A·34 & 10/A·34
224	2-3°×7°	1¾"	H.M.	16	F	E	HM	14	2/A·33	①	—	B	18	90°	① 4/A·34 & 9/A·34
225	2-3°×7°	1¾"	H.M.	16	HV	E	HM	14	2/A·33 SIM	①	—	—	28	90°	① 4/A·34 & 1/A·33 DBL. EGRESS DOORS & FRAME
226	3°×7°	1¾"	SCWD	16	NV	B	HM	14	3/A·34	①	—	—	26	90°	① 4/A·34 & 9/A·34
227	3°×7°	1¾"	SCWD	16	NV	B	HM	14	3/A·34	①	—	—	26	90°	① 4/A·34 & 1/A·33

DOORS						FRAMES					MISCELLANEOUS				
NO.	SIZE	THICK	MATL	GA.	ELEV	ELEV.	MATL	GA	HEAD	JAMB	THRES	LBL	HDW	CLOS	REMARKS
228	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—	—	12	90°	
229	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—	—	12	90°	
230	3°×7°	1¾"	SCWD	—	F	C	HM	14	2/A·33	①	—	—	16	—	① 1/A·33 & 15/A·34
231	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—	—	12	90°	
232	3°×7°	1¾"	SCWD	—	NV	B	HM	14	3/A·34	①	—	—	29	90°	① 1/A·33 & 4/A·34
233	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—	—	12	90°	
234	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—	—	12	90°	
235	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—	—	12	90°	
236	3°×7°	1¾	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—	—	12	90°	
237	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—	—	12	90°	
238	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—	—	12	90°	
239	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—	—	12	90°	
240	3°×7°	1¾"	SCWD	—	NV	B	HM	14	3/A·34	①	—	—	29	90°	① 4/A·34 & 1/A·33
241	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—	—	12	90°	
242	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	9	90°	① 4/A·34 & 1/A·33
243	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	10	90°	① 4/A·34 & 1/A·33
244	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	11	90°	① 4/A·34 & 1/A·33
245	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	9	90°	① 4/A·34 & 10/A·34
246	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	10	90°	① 4/A·34 & 1/A·33
247	2-3°×7°	1¾"	HM	16	NV	E	HM	14	6/A·33	4/A·34	—	B	35	105°	
248	3°×7°	1¾"	SCWD	—	NV	A	HM	14	5/A·34	6/A·34	—	—	29	—	
249	3°×7°	1¾"	SCWD	—	NV	A	HM	14	5/A·34	6/A·34	—	—	16	—	
△1															
300	3°×7°	1¾"	H.M.	16	NV	B	HM	14	3/A·34	①	—	B	8	90°	① 4/A·34 & 10/A·34
301	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—	—	15	105°	
302	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—	—	15	105°	
303	3°×7°	1¾"	SCWD	—	NV	B	HM	14	3/A·34	①		—	26	90°	① 4/A·34 & 1/A·33
304	3'-5"×7'-8¼"	1¾"	ALUM	—	FV	*	ALUM	—	D/A·34A	E/A·34A	①	—	5	105°	* CURTAINWALL FRAME ① 5/A·34A SIM.
305	3'-5"×7'-8¼"	1¾"	ALUM	—	FV	*	ALUM	—	D/A·34A	E/A·34A	①	—	5	108°	* CURTAINWALL FRAME ① 5/A·34A SIM.
306	3°×7°	1¾"	SCWD	—	NV	B	HM	14	3/A·34	①	—	—	26	90°	① 4/A·34 & 1/A·33
307	3°×7°	1¾"	SCWD	—	NV	B	HM	14	3/A·34	①	—	—	26	90°	① 4/A·34 & 10/A·34
308	3°×7°	1¾"	SCWD	—	HV	A	HM	14	5/A·34	6/A·34	—	—	16	—	
309	3°×7°	1¾"	SCWD	—	NV	B	HM	14	3/A·34	①	—	—	26	90°	① 4/A·34 & 1/A·33
310	3°×7°	1¾"	SCWD	—	NV	B	HM	14	3/A·34	①	—	—	15	90°	① 4/A·34 & 10/A·34
311	3°×7°	1¾"	SCWD	—	F	A	HM	14	5/A·34	6/A·34	—	—	12	90°	
312	3°×7°	1¾"	SCWD	—	F	A	HM	14	5/A·34	6/A·34	—	—	12	90°	
313	3°×7°	1¾"	SCWD	—	F	A	HM	14	5/A·34	6/A·34	—	—	12	90°	
314	3°×7°	1¾"	SCWD	—	F	A	HM	14	5/A·34	6/A·34	—	—	12	90°	
315	3°×7°	1¾"	SCWD	—	HV	B	HM	14	3/A·34	4/A·34	—	—	26	90°	
316	3°×7°	1¾"	HM	16	NV	B	HM	14	3/A·34	9/A·34	—	B	8	90°	
317	3°×7°	1¾"	HM	16	F	B	HM	14	3/A·34	①	—	—	7	90°	① 4/A·34 & 10/A·34
318	3°×7°	1¾"	HM	16	F	B	HM	14	3/A·34	①	—	B	7	90°	① 4/A·34 & 10/A·34
319	2-3°×7°	1¾"	HM	16	F	E	HM	14	2/A·33	4/A·34	—	B	18	90°	
320	3°×7°	1¾"	SCWD	—	NV	B	HM	14	3/A·34	①	—	—	15	90°	① 4/A·34 & 9/A·34
321	2-3°×7°	1¾"	SCWD	—	NV	E	HM	14	2/A·33	9/A·34	—	—	30	90°	
322	3°×7°	1¾"	SCWD	—	HV	B	HM	14	3/A·34	①	—	—	29	90°	① 4/A·34 & 1/A·33
323	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	15	90°	① 4/A·34 & 10/A·34
324	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	D/A·29	—	15	90°	
325	3°×7°	1¾"	SCWD	—	HV	A	HM	14	5/A·34	6/A·34	D/A·29	—	16	—	
326	3°×7°	1¾"	SCWD	—	NV	A	HM	14	5/A·34	9/A·34	D/A·29	—	16	—	
327	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	D/A·29	—	15	90°	
328	3°×7°	1¾"	SCWD	—	NV	B	HM	14	3/A·34	①	—	—	29	90°	① 4/A·34 & 1/A·33
329	2-3°×7°	1¾"	SCWD	—	NV	E	HM	14	2/A·33	9/A·34	—	—	30	90°	
330	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①		—	9	90°	① 4/A·34 & 1/A·33
331	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①		—	10	90°	① 4/A·34 & 1/A·33
332	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①		—	11	90°	① 4/A·34 & 1/A·33
333	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①		—	9	90°	① 4/A·34 & 10/A·34
334	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①		—	10	90°	① 4/A·34 & 1/A·33
335	3°×7°	1¾"	SCWD	—	F	A	HM	14	Q/A·34A	R/A·34A	—	—	19	90°	
△1															
400	3°×7°	1¾"	HM	16	NV	B	HM	14	3/A·34	①	—	B	8	90°	① 4/A·34 & 10/A·34
401	3°×7°	1¾"	SCWD	—	NV	B	HM	14	3/A·34	①	—	—	26	90°	① 4/A·34 & 1/A·33
402	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—	—	15	90°	
403	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—	—	15	90°	
404	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	15	90°	① 4/A·34 & 1/A·34
405	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—	—	15	90°	
406	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—	—	15	90°	
407	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—	—	15	90°	
408	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	15	90°	① 4/A·34 & 9/A·34
409	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—	—	15	90°	
410	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—	—	15	90°	
411	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	15	90°	① 4/A·34 & 9/A·34
412	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—	—	15	90°	
413	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—	—	15	90°	
414	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—	—	15	90°	
415	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—	—	15	90°	
416	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—	—	15	90°	
417	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—	—	15	90°	
418	3°×7°	1¾"	SCWD	—	NV	B	HM	14	3/A·34	4/A·34	—	—	26	90°	
419	3°×7°	1¾"	HM	16	NV	B	HM	14	3/A·34	9/A·34	—	B	8	90°	
420	3°×7°	1¾"	HM	16	F	B	HM	14	3/A·34	①	—	—	7	90°	① 4/A·34 & 10/A·34
421	3°×7°	1¾"	HM	16	F	B	HM	14	3/A·34	①	—	B	7	90°	① 4/A·34 & 10/A·34

DOORS						FRAMES					MISCELLANEOUS				
NO.	SIZE	THICK	MATL	GA.	ELEV	ELEV.	MATL	GA	HEAD	JAMB	THRES	LBL	HDW	CLOS	REMARKS
422	2-3°×7°	1¾"	HM	16	F	E	HM	14	2/A·33	4/A·34	—	B	18	90°	
423	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	12	90°	① 4/A·34 & 10/A·34
424	2-2⁶×7°	1¾"	SCWD	—	F	F	HM	14	2/A·33	1/A·33	—	—	30	90°	
425	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	12	90°	① 4/A·34 & 10/A·34
426	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	12	90°	① 4/A·34 & 9/A·34
427	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	12	90°	① 4/A·34 & 10/A·34
428	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	29	90°	① 4/A·34 & 9/A·34
429	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	29	90°	① 4/A·34 & 9/A·34
430	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	12	90°	① 4/A·34 & 10/A·34
431	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	12	90°	① 4/A·34 & 9/A·34
432	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	12	90°	① 4/A·34 & 10/A·34
433	2-2⁶×7°	1¾"	SCWD	—	F	F	HM	14	2/A·33	1/A·33	—	—	30	90°	
434	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	12	90°	① 4/A·34 & 10/A·34
435	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	29	90°	① 4/A·34 & 1/A·33
436	2-2⁶×7°	1¾"	SCWD	—	F	F	HM	14	2/A·33	9/A·34	—	—	30	90°	
437	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	9	90°	① 4/A·34 & 1/A·33
438	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	10	90°	① 4/A·34 & 1/A·33
439	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	11	90°	① 4/A·34 & 1/A·33
440	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	9	90°	① 4/A·34 & 10/A·34
441	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	10	90°	① 4/A·34 & 1/A·33
442	3°×7°	1¾"	SCWD	—	F	A	HM	14	Q/A·34A	R/A·34A	—	—	19	90°	
443	4°×7°	1¾"	SCWD	—	F	P	HM	14	5/A·34	6/A·34	—	—	16	—	
△1															
500	3°×7°	1¾"	HM	16	NV	B	HM	14	3/A·34	①	—	B	8	90°	① 4/A·34 & 10/A·34
501	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—	—	12	90°	
502	3°×7°	1¾"	SCWD	—	NV	B	HM	14	3/A·34	①	—	—	26	90°	① 4/A·34 & 1/A·33
503	3°×7°	1¾"	SCWD	—	NV	B	HM	14	3/A·34	①	—	—	26	90°	① 4/A·34 & 9/A·34
504	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	29	90°	① 4/A·34 & 10/A·34
505	3°×7°	1¾"	SCWD	—	F	A	HM	14	5/A·34	6/A·34	—	—	12	90°	
506	3°×7°	1¾"	SCWD	—	F	A	HM	14	5/A·34	6/A·34	—	—	12	90°	
507	3°×7°	1¾"	SCWD	—	F	A	HM	14	5/A·34	6/A·34	—	—	12	90°	
508	3°×7°	1¾"	SCWD	—	F	A	HM	14	5/A·34	6/A·34	—	—	12	90°	
509	3°×7°	1¾"	SCWD	—	F	A	HM	14	5/A·34	6/A·34	—	—	12	90°	
510	2-2⁶×7°	1¾"	SCWD	—	F	F	HM	14	2/A·33	10/A·34	—	—	30	90°	
511	2-2⁶×7°	1¾"	SCWD	—	F	F	HM	14	2/A·33	10/A·34	—	—	30	90°	
512	3°×7°	1¾"	SCWD	—	F	A	HM	14	5/A·34	6/A·34	—	—	12	90°	
513	3°×7°	1¾"	SCWD	—	F	A	HM	14	5/A·34	6/A·34	—	—	12	90°	
514	3°×7°	1¾"	SCWD	—	F	A	HM	14	5/A·34	6/A·34	—	—	12	90°	
515	3°×7°	1¾"	SCWD	—	NV	B	HM	14	3/A·34	4/A·34	—	—	26	90°	
516	3°×7°	1¾"	HM	16	NV	B	HM	14	3/A·34	9/A·34	—	B	8	90°	
517	3°×7°	1¾"	HM	16	F	B	HM	14	3/A·34	①	—	—	7	90°	① 4/A·34 & 10/A·34
518	3°×7°	1¾"	HM	16	F	B	HM	14	3/A·34	①	—	B	7	90°	① 4/A·34 & 10/A·34
519	2-3°×7°	1¾"	HM	16	F	E	HM	14	2/A·33	4/A·34	—	B	18	90°	
520	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	29	90°	① 4/A·34 & 10/A·34
521	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—	—	15	90°	
522	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—	—	15	90°	
523	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—	—	15	90°	
524	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—	—	15	90°	
525	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—	—	15	90°	
526	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—	—	15	90°	
527	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—	—	15	90°	
528	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	4/A·34	—	—	15	90°	
529	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	9	90°	① 4/A·34 & 1/A·33
530	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	10	90°	① 4/A·34 & 1/A·33
531	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	11	90°	① 4/A·34 & 1/A·33
532	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	9	90°	① 4/A·34 & 10/A·33
533	3°×7°	1¾"	SCWD	—	F	B	HM	14	3/A·34	①	—	—	10	90°	① 4/A·34 & 1/A·33
534	3°×7°	1¾"	SCWD	—	F	A	HM	14	Q/A·34A	R/A·34A	—	—	19	90°	
△1															
600	3°×7°	1¾"	HM	16	NV	B	HM	14	3/A·34	①	—	B	31	90°	① 4/A·34 & 10/A·34
601	3°×7°	1¾"	HM	16	F	A	HM	14	7/A·34	6/A·34	—	B	32	90°	
602	3°×7°	1¾"	HM	16	F	A	HM	14	7/A·34	6/A·34	—	B	32	90°	
603	2-3°×7°	1¾"	HM	16	F	H	HM	14	①	2/A·34	7/A·34A	B	33	90°	① 1/A·34 SIM. 4 SIDED FRAME

JAMB 1"=1'-0" ① A·33

HEAD 1"=1'-0" ② A·33

JAMB 1"=1'-0" ③ A·33

HEAD 1"=1'-0" ④ A·33

HEAD/JAMB 1"=1'-0" ⑤ A·33

HEAD 1"=1'-0" ⑥ A·33

AS BUILT

HEAD/JAMB 1"=1'-0" ⑦ A·33

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by
director · design and construction division
10-19-87
date

DOOR AND FRAME SCHEDULE

Sherman-Carter-Barnhart
P A R T N E R S I N A R C H I T E C T U R E
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-1351

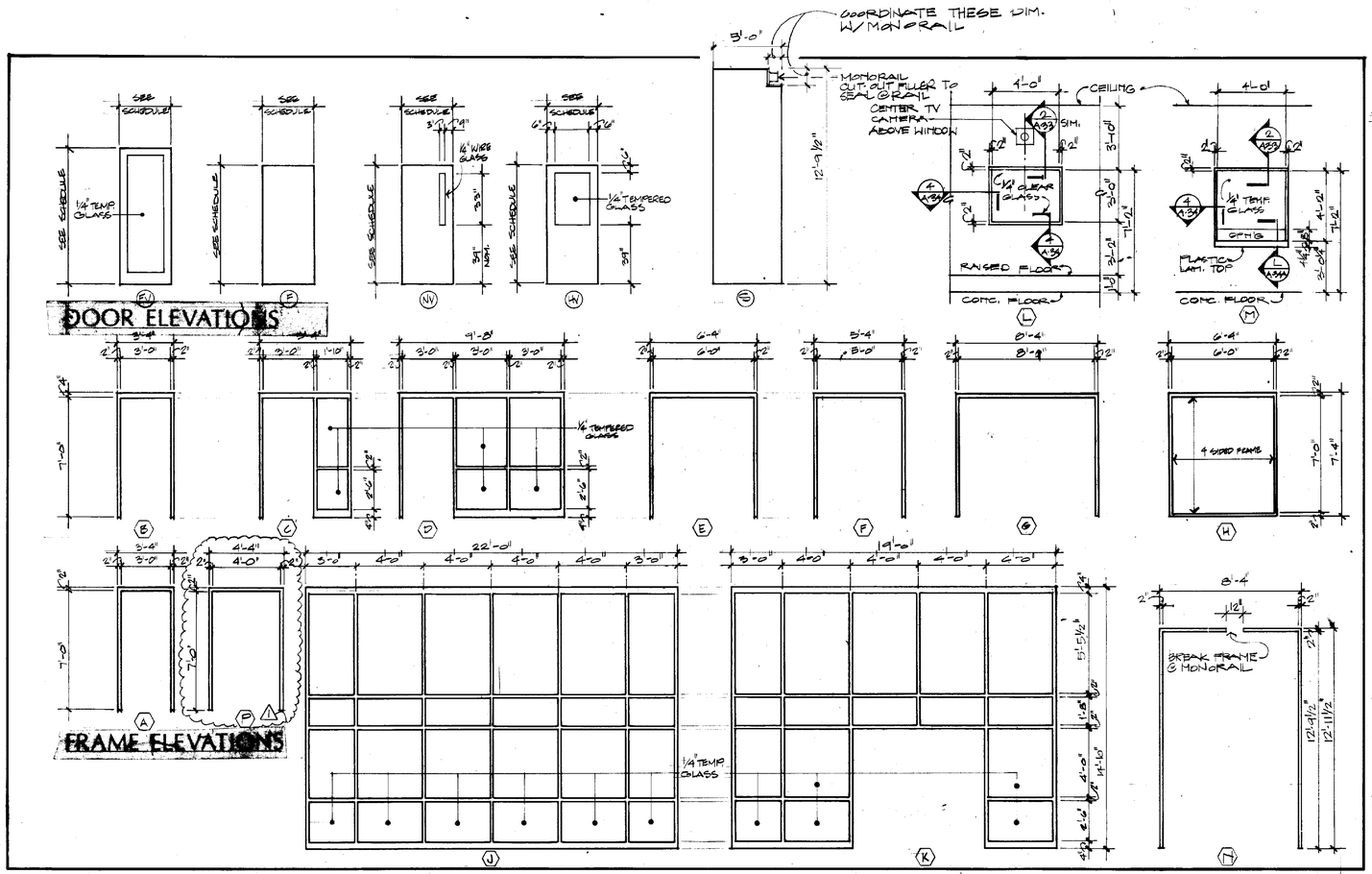
JOB NO.	8706
DATE	10-1-87
DRAWN	PRESTON
CHECKED	CEB
FILE NO.	431.0

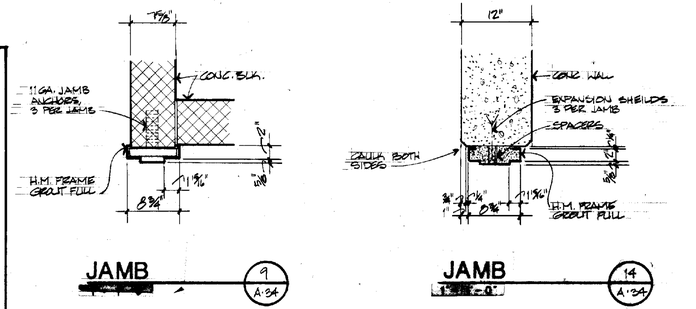
REVISIONS
△1 FEB. 7, 1990

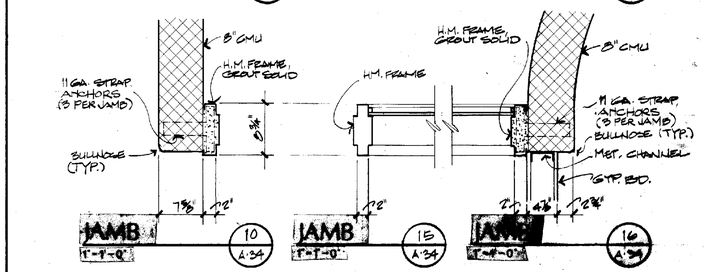
SHEET
A•33

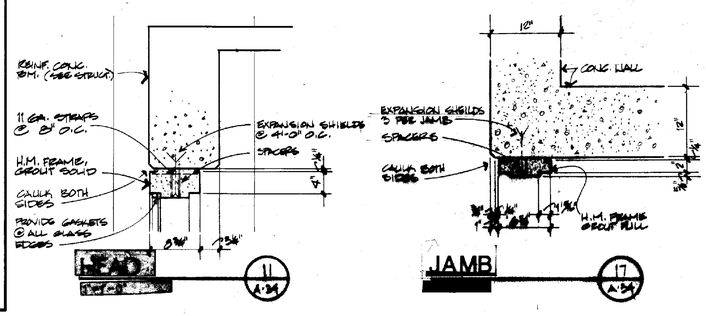
Cab #	Slot	Document #
82	A-3	004917

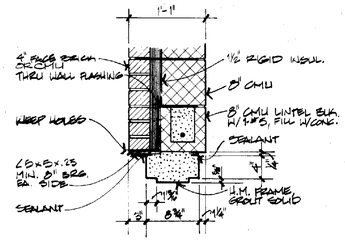
89592

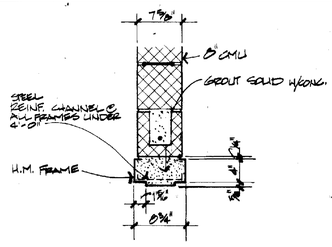


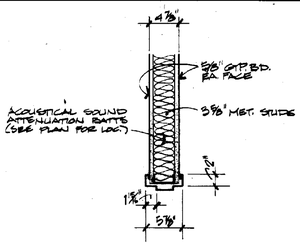


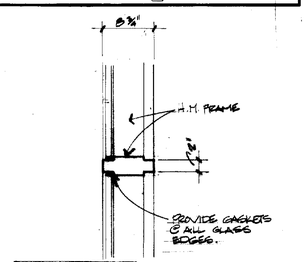


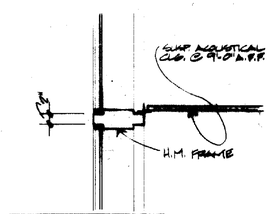


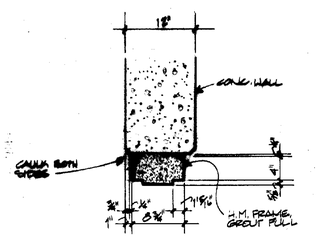


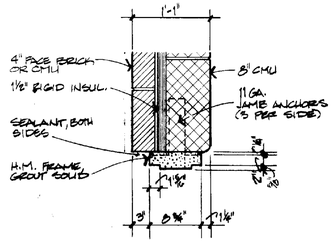


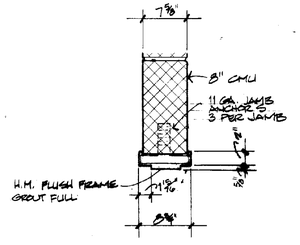


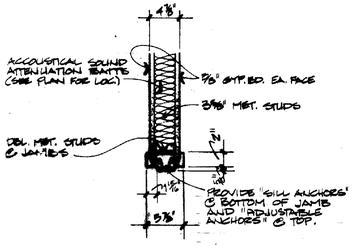


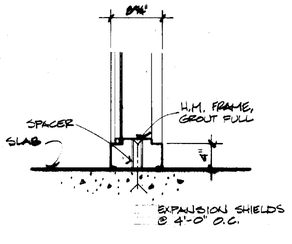


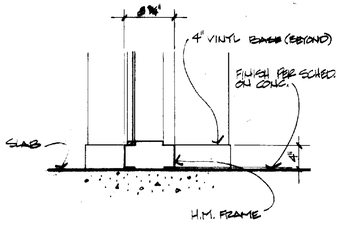


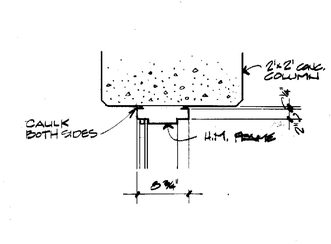












AS BUILT

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

10-19-87

DOOR/FRAME ELEVATIONS & DETAILS

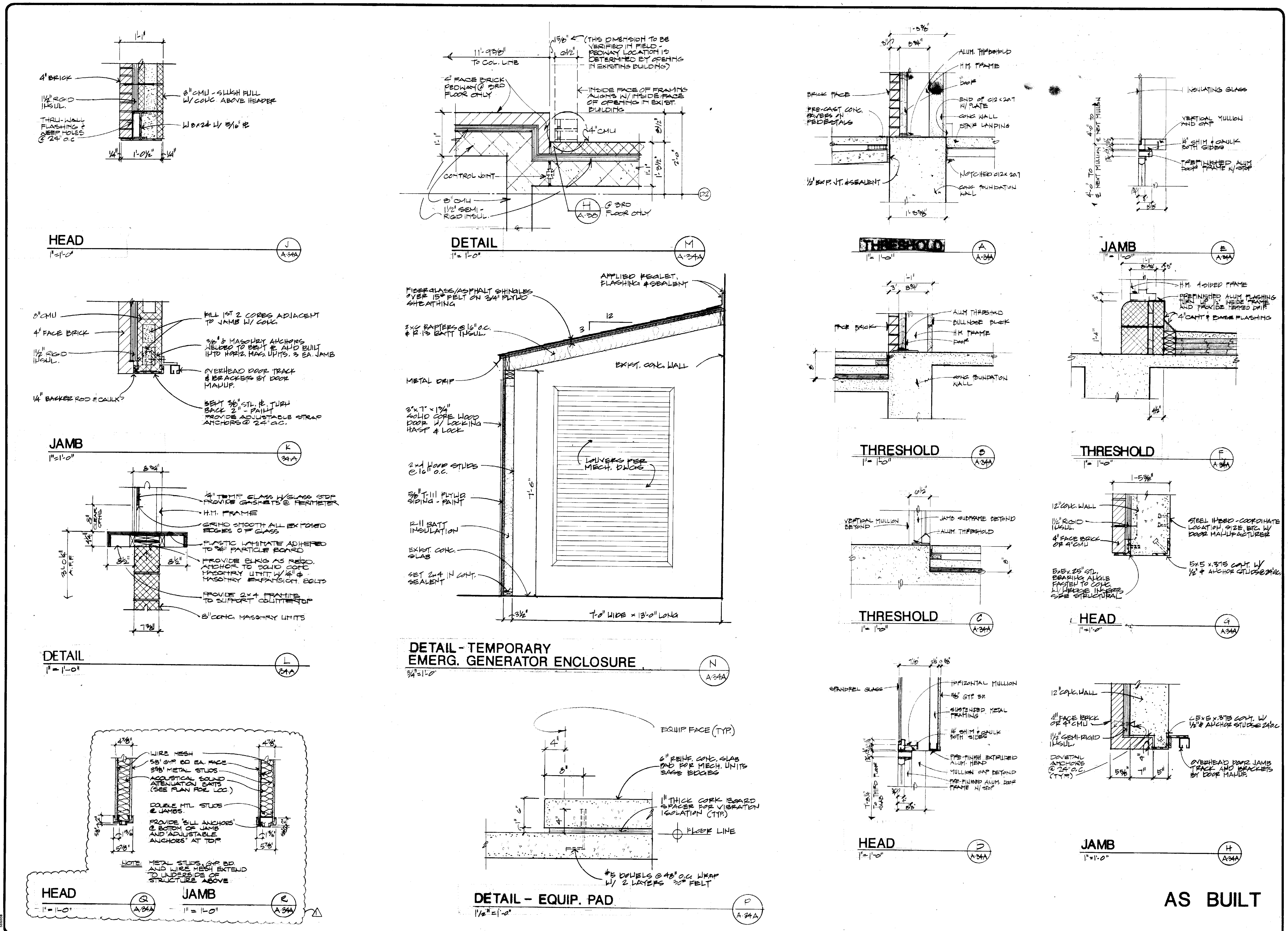
Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-1391

JOB NO.	8706
DATE	10-1-87
DRAWN	RODGERS
CHECKED	CEB
FILE NO.	431.0

REVISIONS
⚠ FEB. 7, 1990

SHEET
A•34

Cab # Slot Document #
82 A-3 004918



ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

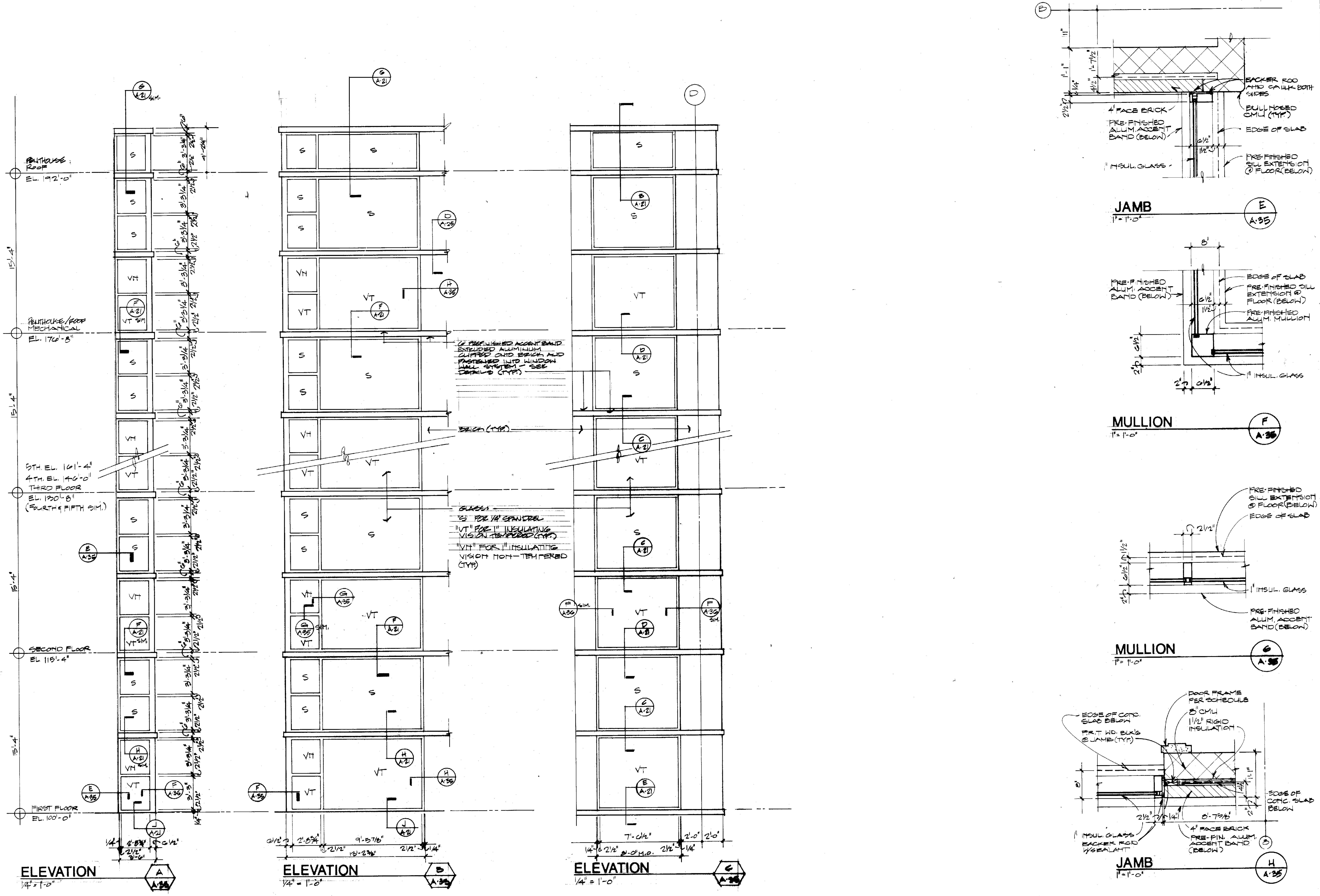
DETAILS

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE

JOB NO.	8706
DATE	10-1-87
DRAWN	STAFF
CHECKED	CEB
FILE NO.	431.0

REVISIONS
1 FEB 7, 1990

SHEET
A•34A



ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by: director - design and construction division
date: 10.19.87

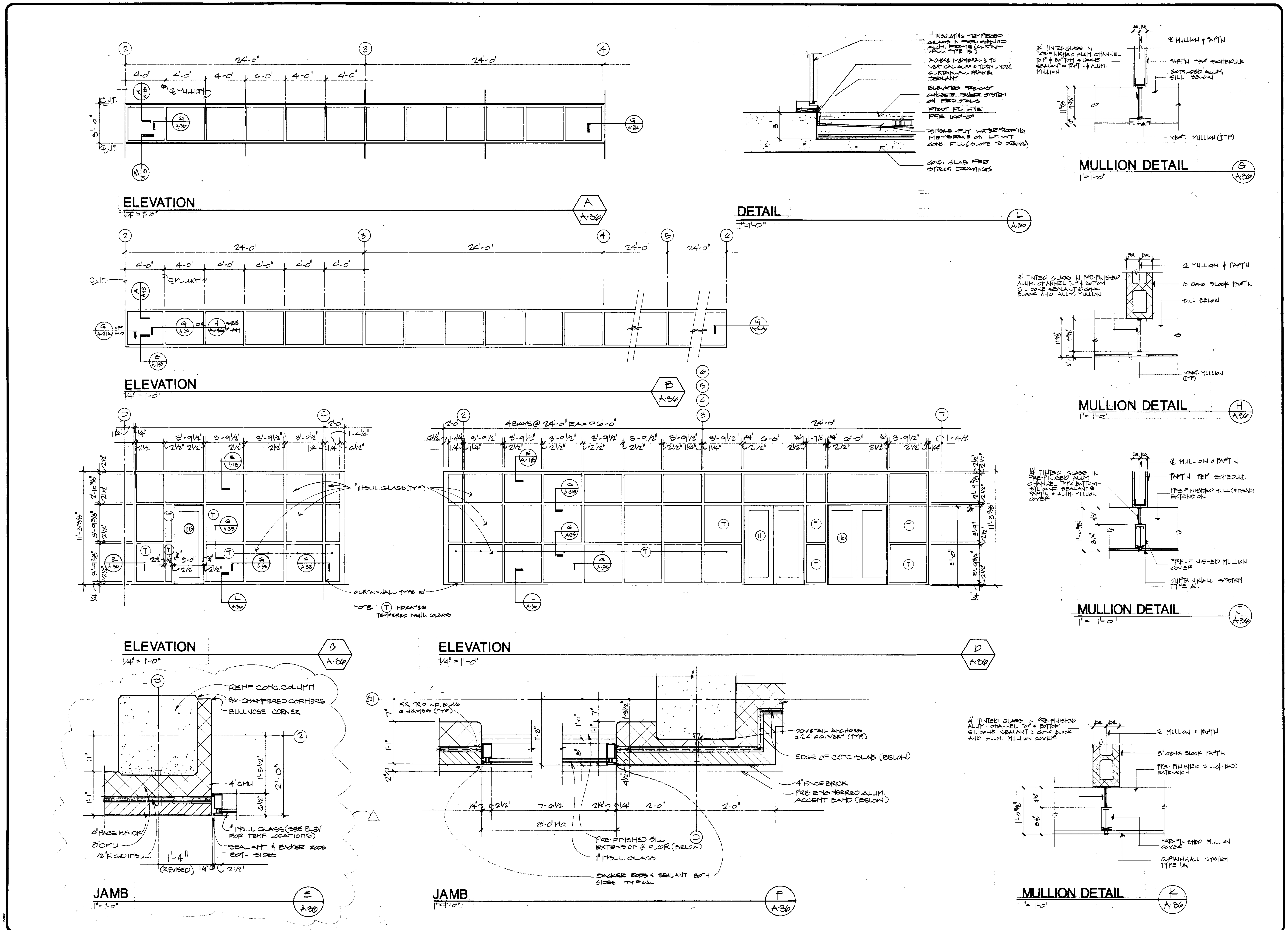
WINDOW ELEVATIONS & DETAILS

Sherman · Carter · Barnhart
PARTNERS IN ARCHITECTURE
LEXINGTON FINANCIAL CENTER · SUITE 1900 · 250 W. MAIN · LEXINGTON, KY 40507 · 606/254-1351

JOB NO.	8706
DATE	10-1-87
DRAWN	DWH
CHECKED	CEB
FILE NO.	431.0

REVISIONS

SHEET
A•35



ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

WINDOW ELEVATIONS & DETAILS

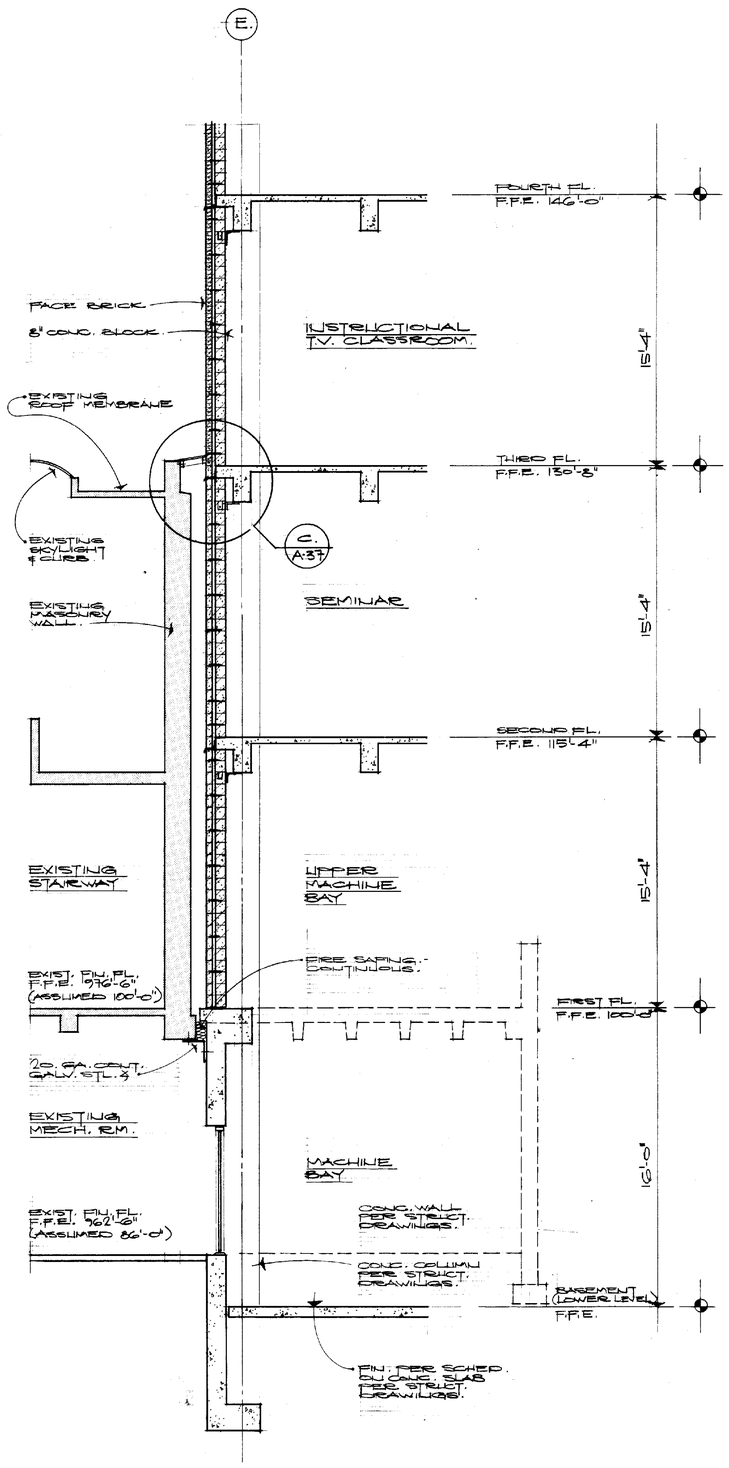
Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
LEXINGTON FINANCIAL CENTER · SUITE 1900 · 250 W. MAIN · LEXINGTON, KY 40507 · 606-254-1051

JOB NO.	8706
DATE	10-1-87
DRAWN	DWH
CHECKED	CEB
FILE NO.	431.0

REVISIONS
1 AS BUILT 2/18/91

SHEET
A•36

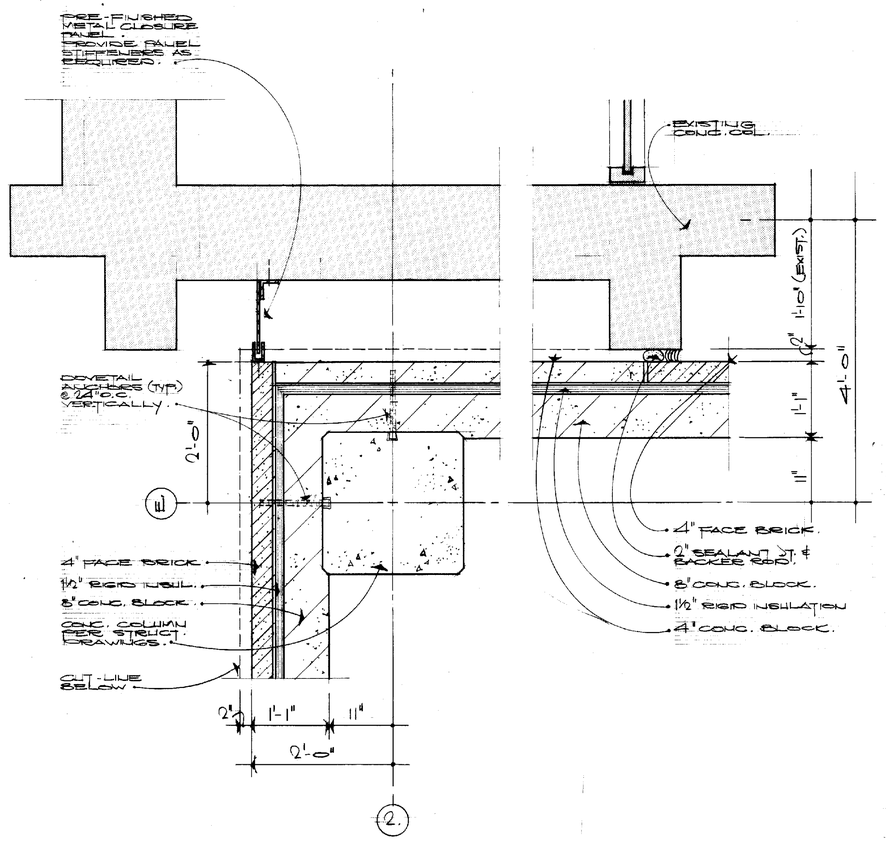
Cab.# 82 Slot A-3 Document # 001921



SECTION

SCALE: 1/4" = 1'-0"

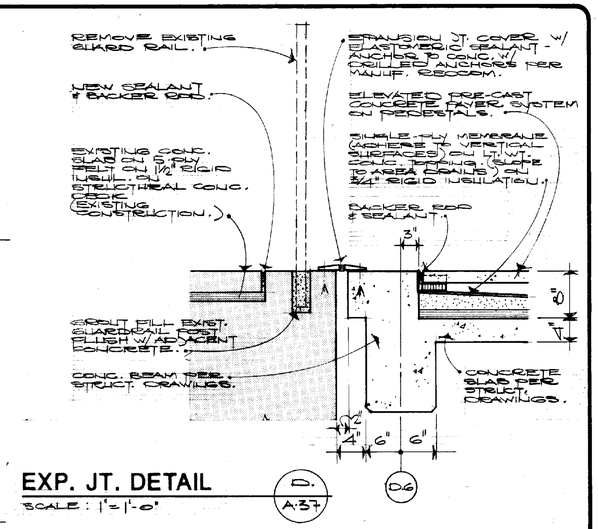
A. A-37



EXPANSION JOINT DETAIL

SCALE: 1" = 1'-0"

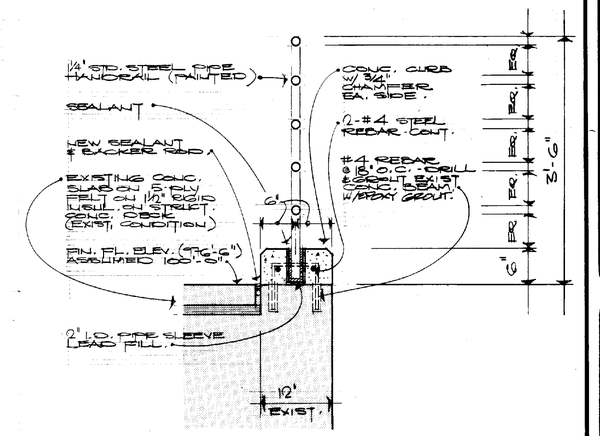
B. A-37



EXP. JT. DETAIL

SCALE: 1" = 1'-0"

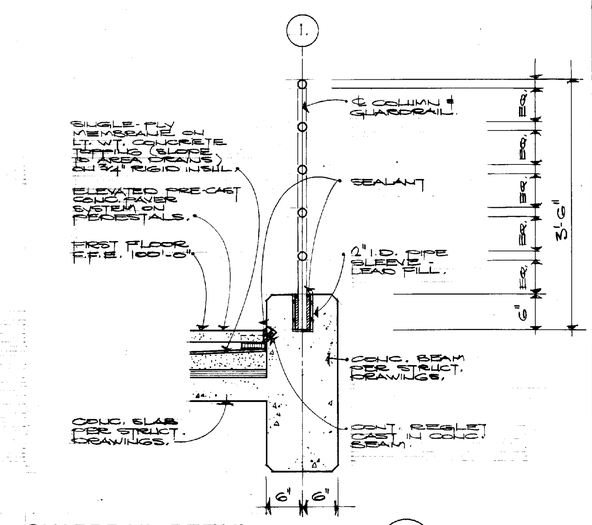
D. A-37



GUARDRAIL CURB DETAIL

SCALE: 1" = 1'-0"

E. A-37



FLASHING DETAIL

SCALE: 1" = 1'-0"

C. A-37

GUARDRAIL DETAIL

SCALE: 1" = 1'-0"

F. A-37

Herman · Carter · Barnhart
PARTNERS IN ARCHITECTURE
LEXINGTON FINANCIAL CENTER - SUITE 1900 - 250 W. MAIN - LEXINGTON, KY 40507 - 606-254-1351

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by

10-1-87
date

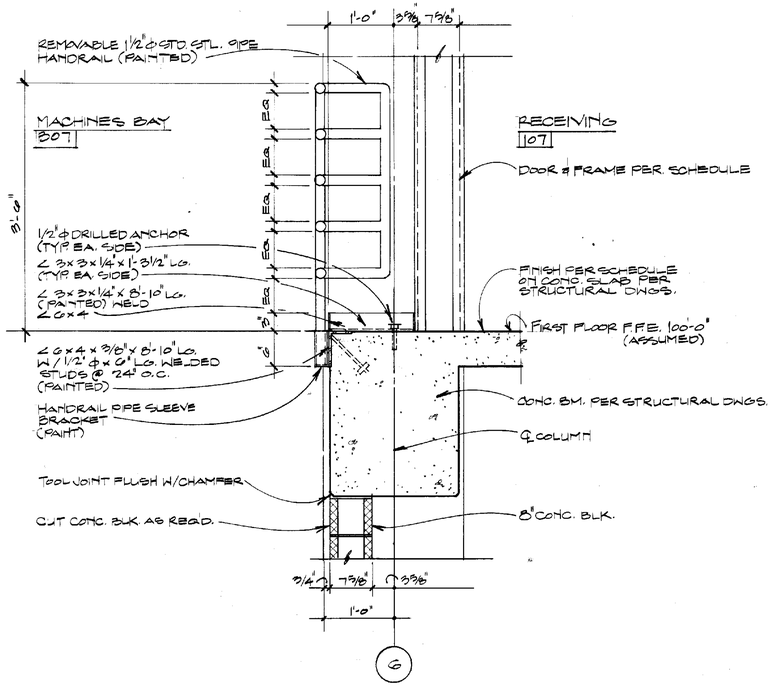
SECTIONS & DETAILS

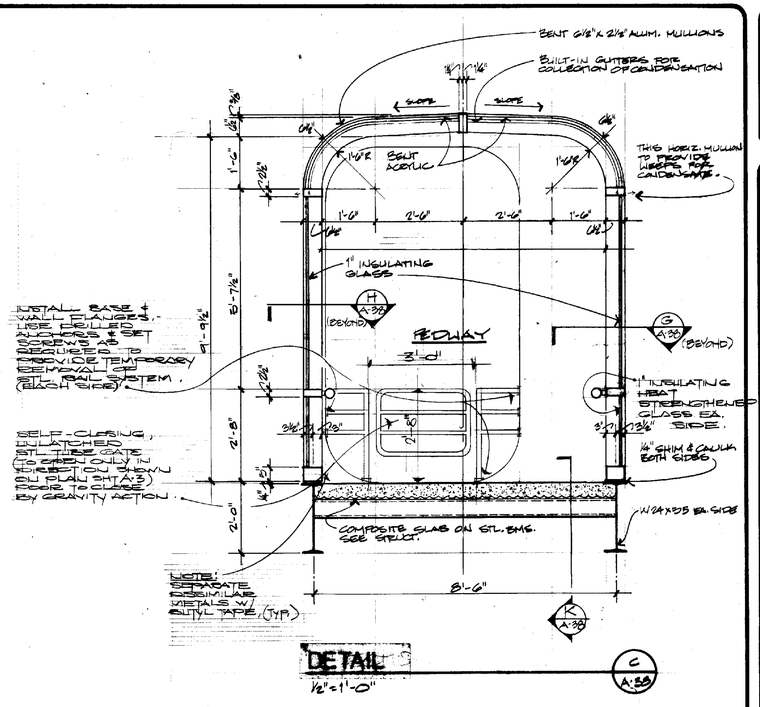
JOB NO.	8726
DATE	10-1-87
DRAWN	DRW.
CHECKED	CHB.
FILE NO.	431.0

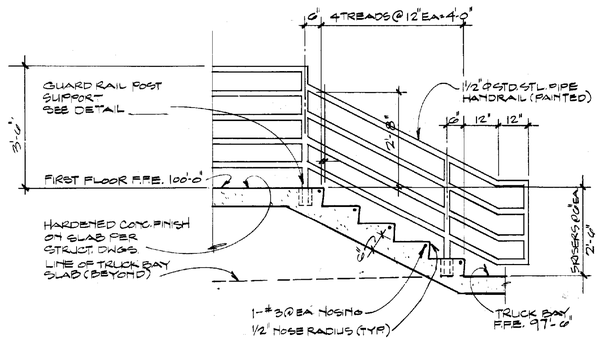
REVISIONS

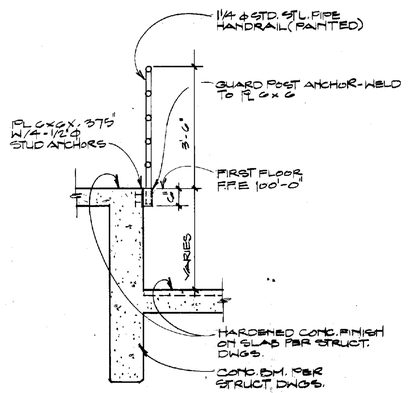
SHEET
A•37

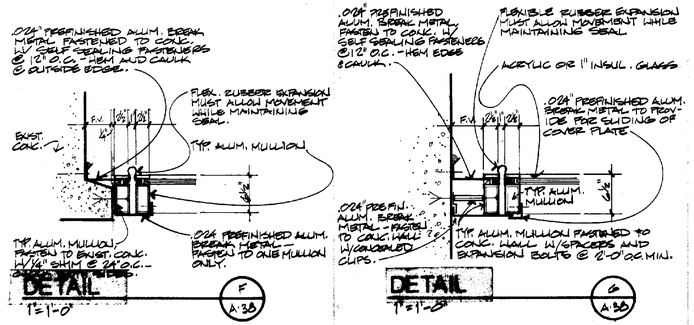
Cab.# Slot Document #
82 A-3 043922

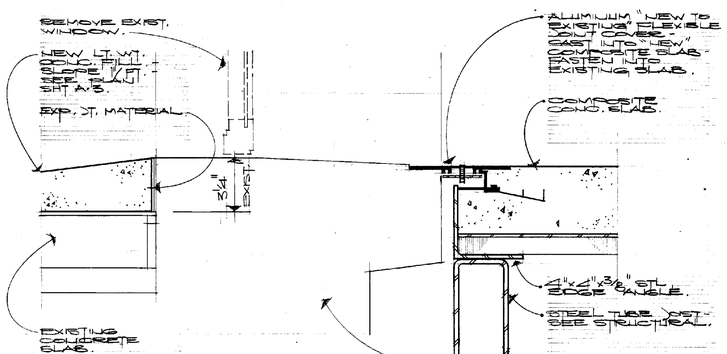












REMOVABLE HANDRAIL DETAIL

1" = 1'-0"

A
A·38

DETAIL

1/2" = 1'-0"

C
A·38

DETAIL

1" = 1'-0"

F
A·38

DETAIL

1" = 1'-0"

G
A·38

DETAIL

1" = 1'-0"

H
A·38

DETAIL

3" = 1'-0"

J
A·38

DETAIL

3" = 1'-0"

K
A·38

DOCK STAIR DETAIL

1/2" = 1'-0"

D
A·38

DOCK SECTION

1/2" = 1'-0"

E
A·38

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by Wallace Dunning 10·19·87
director - design and construction division
date

PEDWAY & DETAILS

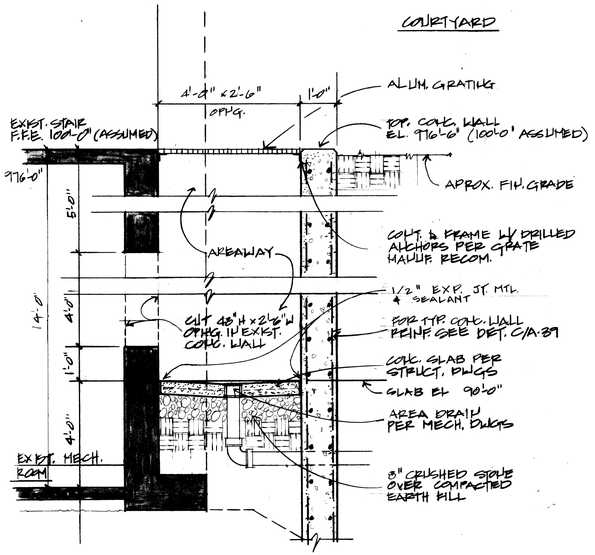
Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
LEXINGTON FINANCIAL CENTER · SUITE 1900 · 250 W. MAIN · LEXINGTON, KY 40507 · 606-254-1351

JOB NO.	8706
DATE	10-1-87
DRAWN	STAFF
CHECKED	CEB
FILE NO.	431.0

REVISIONS

SHEET
A·38

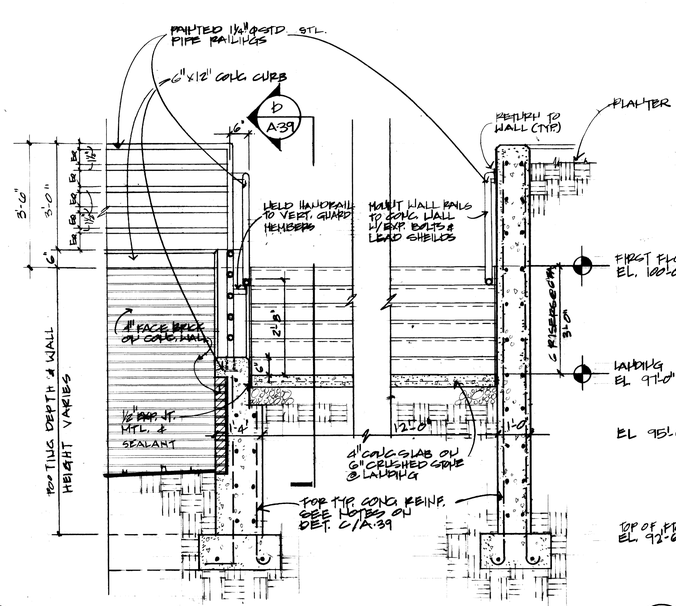
Cab #	Slot	Document #
82	A-3	004923



AREAWAY DETAIL

A / A-39

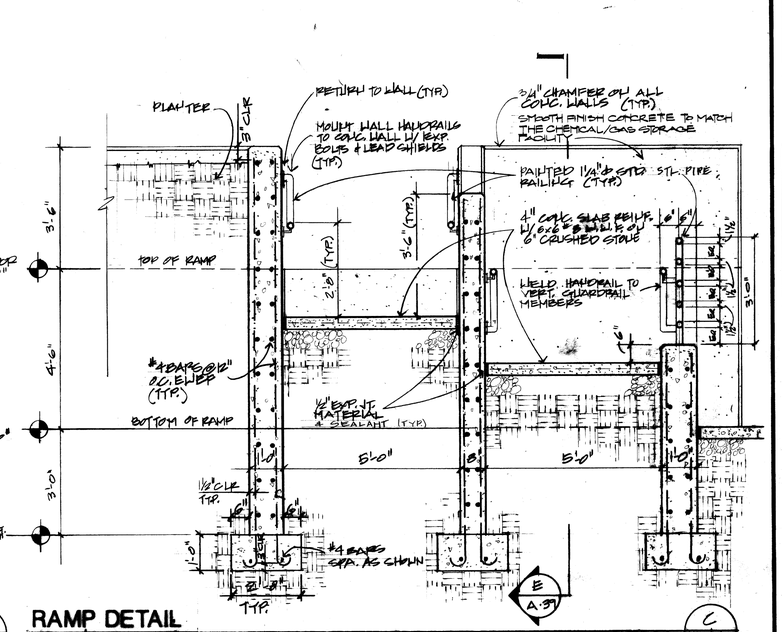
1/2"=1'-0"



STAIR DETAIL

B / A-39

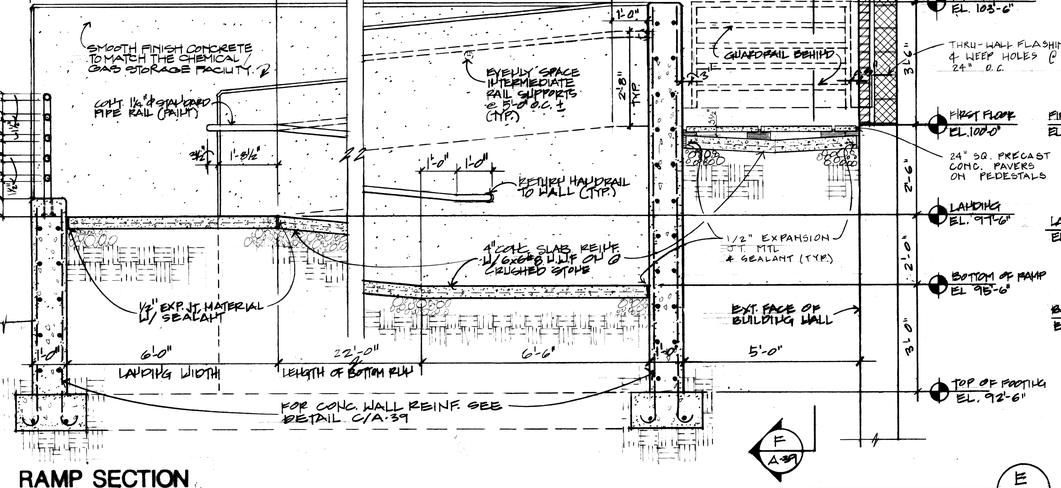
1/2"=1'-0"



RAMP DETAIL

C / A-39

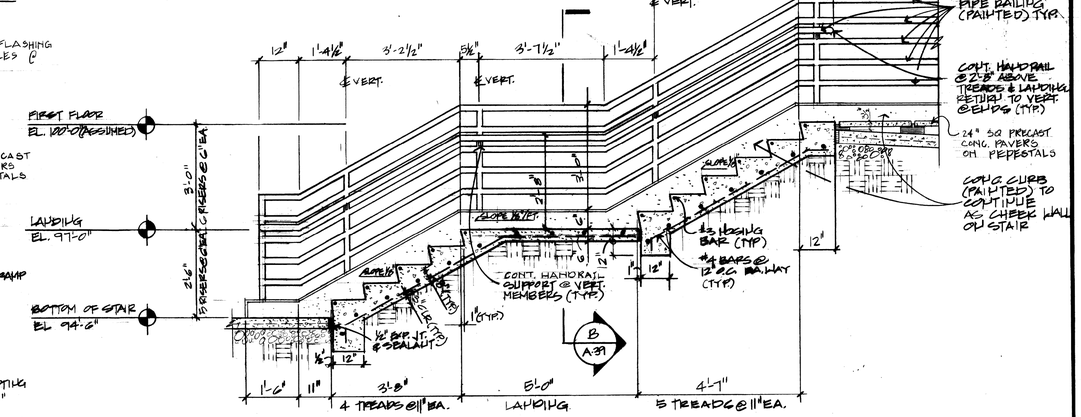
1/2"=1'-0"



RAMP SECTION

E / A-39

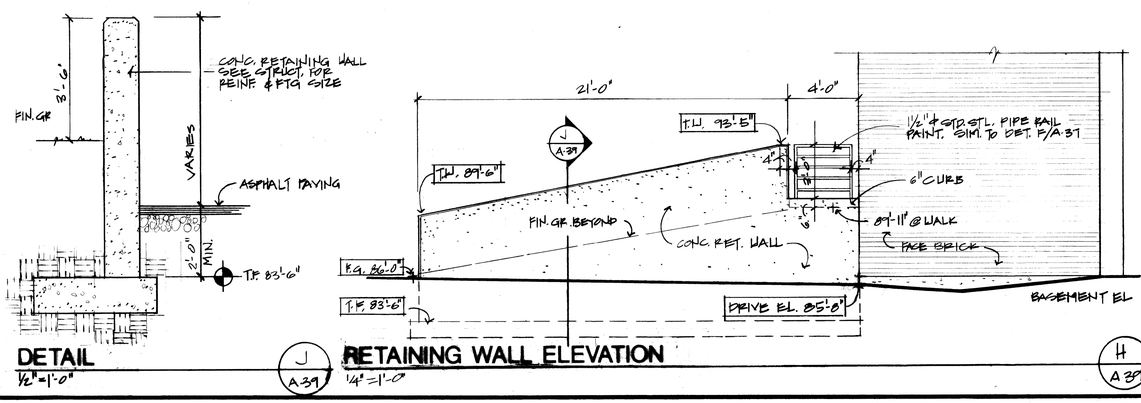
1/2"=1'-0"



STAIR SECTION

D / A-39

1/16"=1'-0"



DETAIL

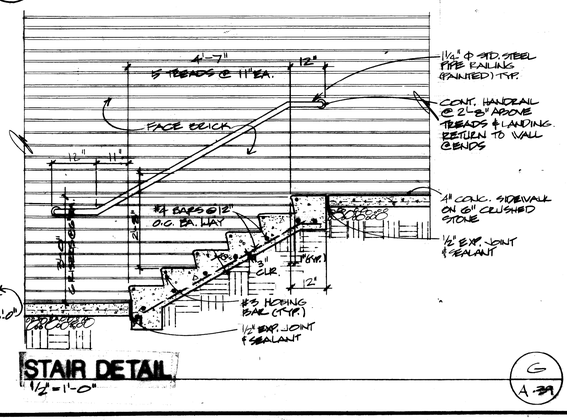
J / A-39

1/2"=1'-0"

RETAINING WALL ELEVATION

H / A-39

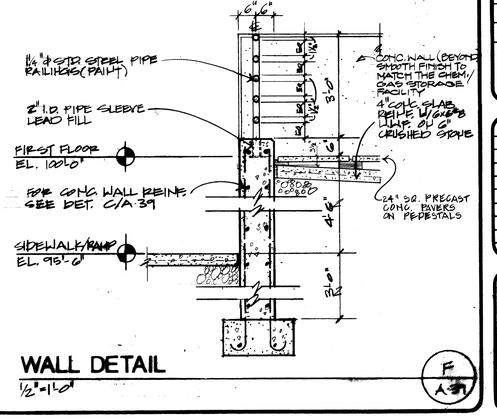
1/4"=1'-0"



STAIR DETAIL

G / A-39

1/2"=1'-0"



WALL DETAIL

F / A-39

1/2"=1'-0"

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

10-19-07

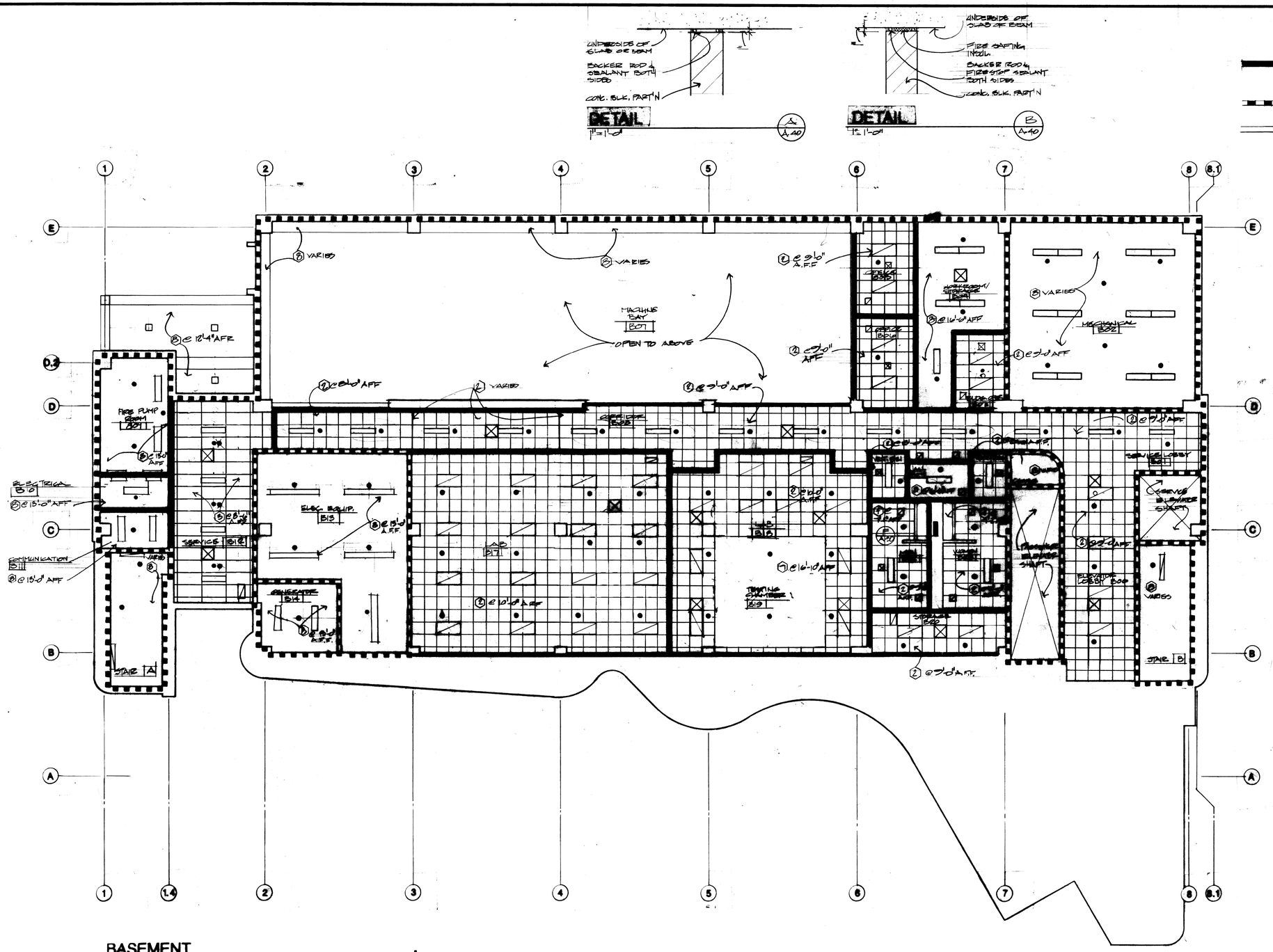
Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
LEXINGTON FINANCIAL CENTER · SUITE 1900 · 250 W. MAIN · LEXINGTON, KY 40507 · 606-254-1351

JOB NO.	3706
DATE	10-1-07
DRAWN	TUNE
CHECKED	CEB
FILE NO.	431.0

REVISIONS

SHEET
A•39

Cab # 82 Slot A-3 Document # 014924



BASEMENT REFLECTED CEILING PLAN

1/8"=1'-0"

CEILING TYPES SCHEDULE

1. 2x2 SUSP. ACOUS. CEILING w/ 8MXPOSED GRID -(TYPE-A)
2. 2x2 SUSP. ACOUS. CEILING w/ EXPOSED GRID (TYPE B)
3. 2x4 SUSP. ACOUS. CEILING w/ EXPOSED GRID (TYPE B)
4. PARABOLIC LENS EGG CRATE
5. 5/8" EXTERIOR GYP. BD. ON SUSPENSION SYSTEM
6. 5/8" GYP. BD. ON METAL STUDS
7. ACOUS. PANELS ON METAL FURRING
8. EXPOSED STRUCTURE
9. PRE-FINISHED METAL PANEL

ABBREVIATIONS

AFF-ABOVE FINISHED FLOOR

ARF-ABOVE RAISED FLOOR

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by
10.19.87
date

BASEMENT REFL. CEILING PLAN

Herman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-1551

JOB NO.	8706
DATE	10-1-87
DRAWN	STAFF
CHECKED	CEB
FILE NO.	431.0

REVISIONS

SHEET

A•40

Cab # 82 Slot A-3 Document # 004925

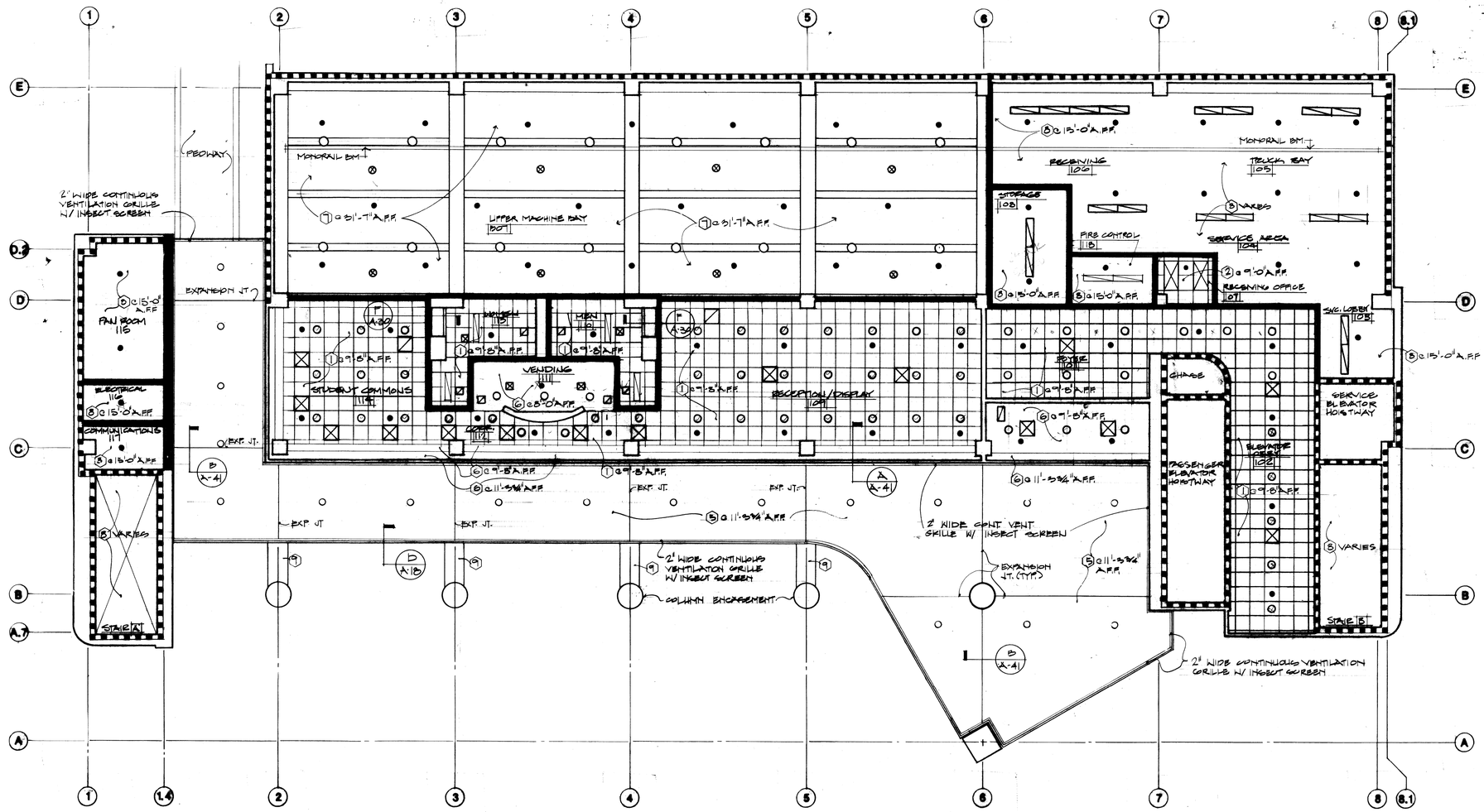
LEGEND

SHADED WALLS INDICATE WALLS WHICH EXTEND TO UNDERSIDE OF SLAB ABOVE, SEE DET. A/A-40.

DASHED WALLS INDICATE FIRE-RATED WALLS WHICH EXTEND TO UNDERSIDE OF SLAB ABOVE, SEE DET. 5/A-40

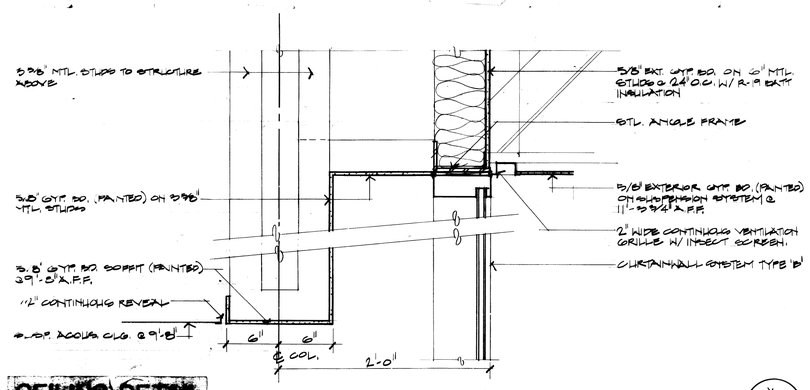
UNSHADED WALLS EXTEND ONE FULL BLOCK COURSE (OR 6" FOR DRYWALL PARTITIONS) ABOVE ADJACENT CEILINGS.

NOTE: SEE MECHANICAL & ELECTRICAL DRAWING LEGEND SHEETS FOR SYMBOL DESIGNATIONS FOR DIFFUSERS, GRILLES, SPRINKLER HEADS, LIGHT FIXTURES, & OTHER ITEMS.



FIRST FLOOR REFLECTED CEILING PLAN

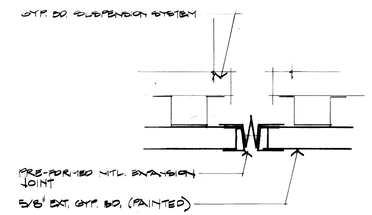
1/8"=1'0"



CEILING DETAIL

1 1/2" = 1'-0"

A/A-31



EXP. JT. DETAIL

6" = 1'-0"

B/A-31

CEILING TYPES SCHEDULE

1. 2x2 SUSP. ACOUS. CEILING w/ EXPOSED GRID (TYPE A)
2. 2x2 SUSP. ACOUS. CEILING w/ EXPOSED GRID (TYPE B)
3. 2x4 SUSP. ACOUS. CEILING w/ EXPOSED GRID (TYPE B)
4. PARABOLIC LENS EGG CRATE
5. 5/8" EXTERIOR GYP. BD. ON SUSPENSION SYSTEM
6. 5/8" GYP. BD. ON METAL STUDS
7. ACOUS. PANELS ON METAL FURRING
8. EXPOSED STRUCTURE
9. PRE-FINISHED METAL PANEL

ABBREVIATIONS

AFF-ABOVE FINISHED FLOOR

ARF-ABOVE RAISED FLOOR

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

10-2-87
date

prepared by
architect design and construction division

FIRST FL. REFL. CEILING PLAN

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-1351

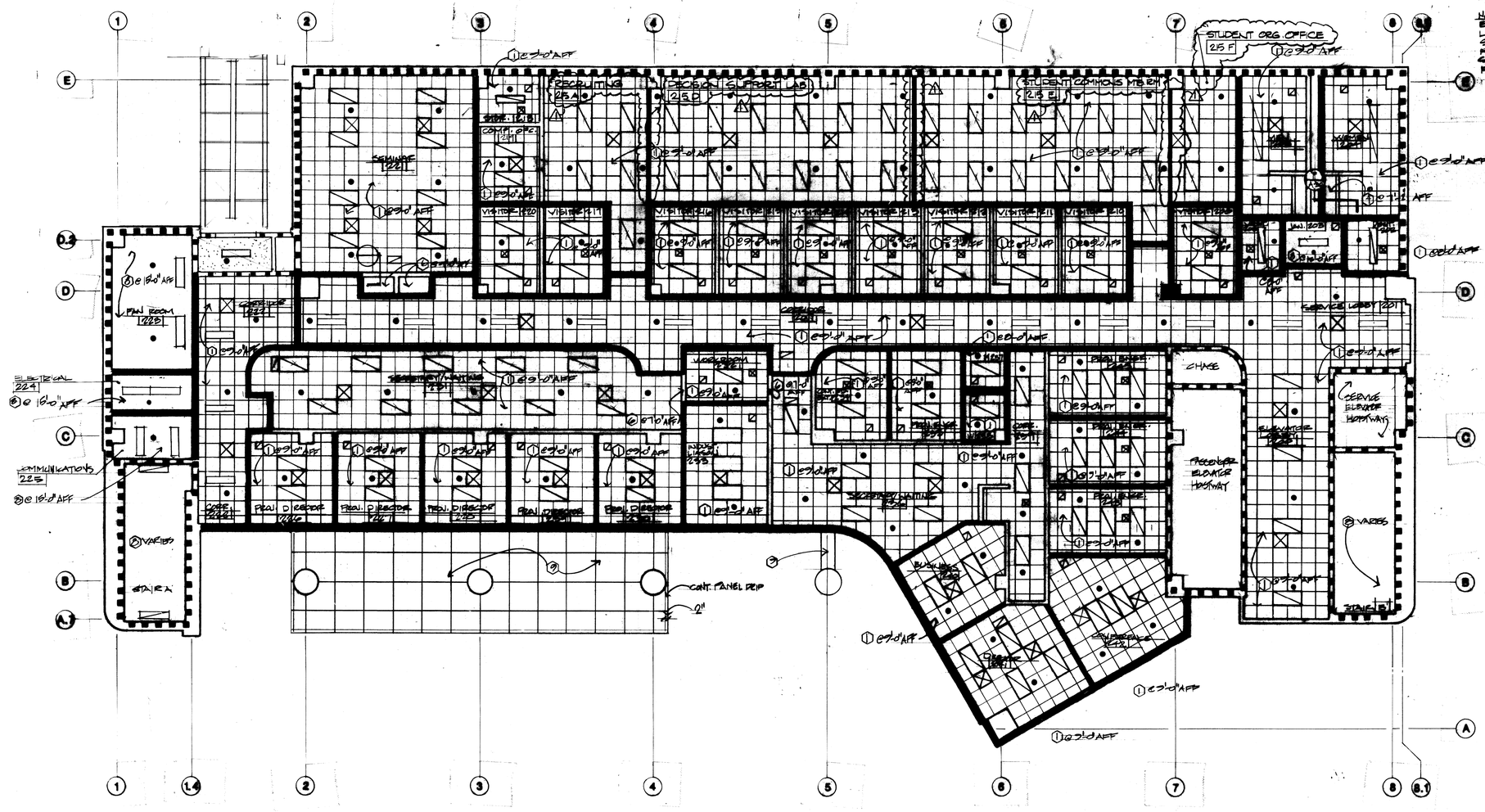
JOB NO.	8706
DATE	10-1-87
DRAWN	STAFF
CHECKED	CES
FILE NO.	431.0

REVISIONS

SHEET

A•41

Cab # 82 Slot A-3 Document # 040926



SECOND FLOOR REFL. CEILING PLAN

1/8"=1'0"

CEILING TYPES SCHEDULE

1. 2x2 SUSP. ACOUS. CEILING W/ EXPOSED GRID (TYPE A)
2. 2x2 SUSP. ACOUS. CEILING W/ EXPOSED GRID (TYPE B)
3. 2x4 SUSP. ACOUS. CEILING W/ EXPOSED GRID (TYPE B)
4. PARABOLIC LENS EGG CRATE
5. 5/8" EXTERIOR GYP. BD. ON SUSPENSION SYSTEM
6. 5/8" GYP. BD. ON METAL STUDS
7. ACOUS. PANELS ON METAL FURRING
8. EXPOSED STRUCTURE
9. PRE-FINISHED METAL PANEL

ABBREVIATIONS

AFF-ABOVE FINISHED FLOOR

ARF-ABOVE RAISED FLOOR

AS BUILT

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by

10:19:87

SECOND FL. REFL. CEILING PLAN

Eckman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-1351

JOB NO.	8706
DATE	10-1-87
DRAWN	STAFF
CHECKED	CEB
FILE NO.	4316

REVISIONS

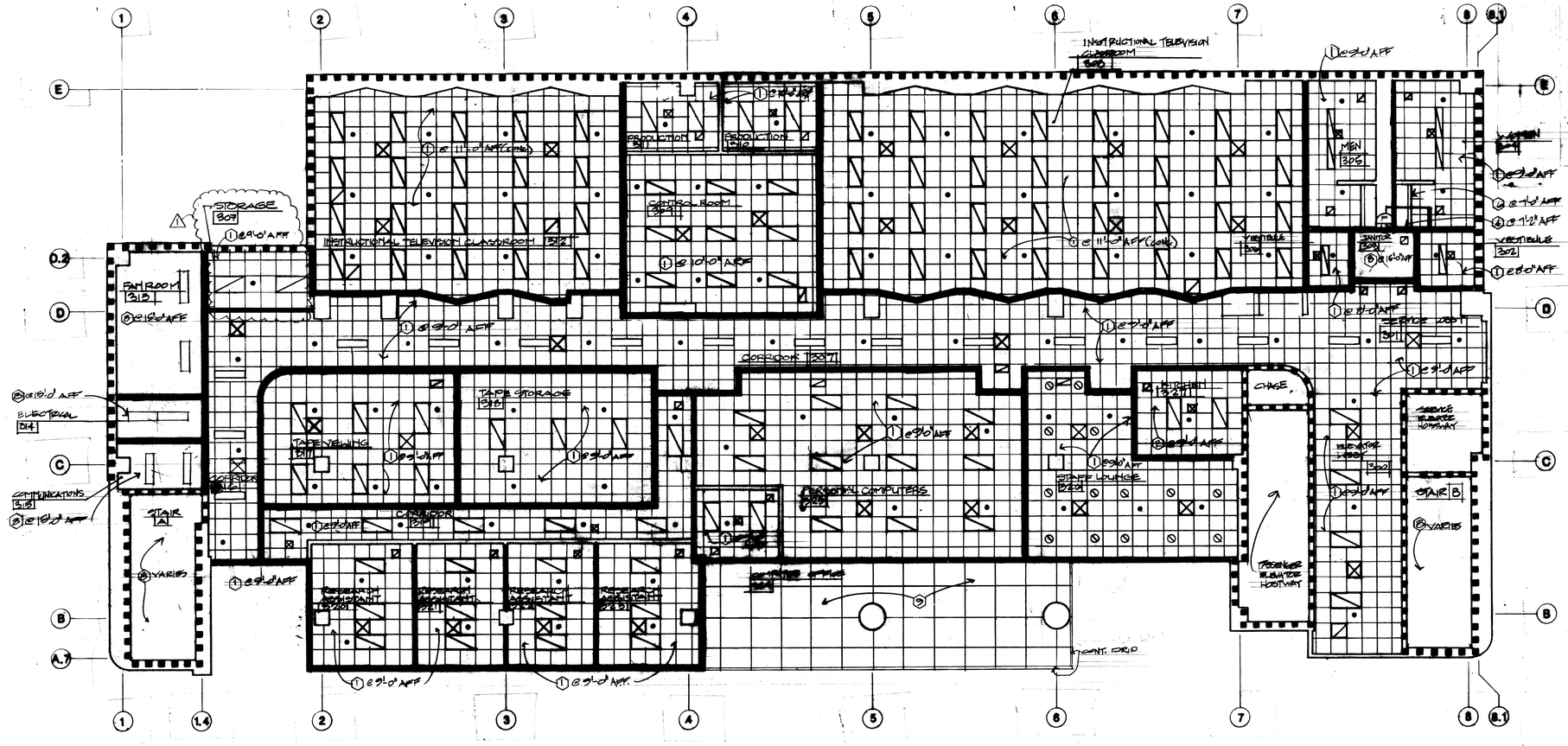
1 FEB. 7, 19

Cab # Slot Document # 044927

82 A-3

SHEET

A•42



THIRD FLOOR
REFLECTED CEILING PLAN
1/8"-1'0"

CEILING TYPES SCHEDULE

1. 2x2 SUSP. ACOUS. CEILING w/ EXPOSED GRID (TYPE A)
2. 2x2 SUSP. ACOUS. CEILING w/ EXPOSED GRID (TYPE B)
3. 2x4 SUSP. ACOUS. CEILING w/ EXPOSED GRID (TYPE B)
4. PARABOLIC LENS EGG CRATE
5. 5/8" EXTERIOR GYP. BD. ON SUSPENSION SYSTEM
6. 5/8" GYP. BD. ON METAL STUDS
7. ACOUS. PANELS ON METAL FURRING
8. EXPOSED STRUCTURE
9. PRE-FINISHED METAL PANEL

ABBREVIATIONS

AFF-ABOVE FINISHED FLOOR
ARF-ABOVE RAISED FLOOR

AS BUILT

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

director - design and construction division

THIRD FL. REFL. CEILING PLAN

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-1351

JOB NO.	8706
DATE	10-1-87
DRAWN	STAFF
CHECKED	CEB
FILE NO.	431.0

REVISIONS
1 FEB 7, 1990

SHEET
A-43

Cab # 82 Slot A-3 Document # 004928

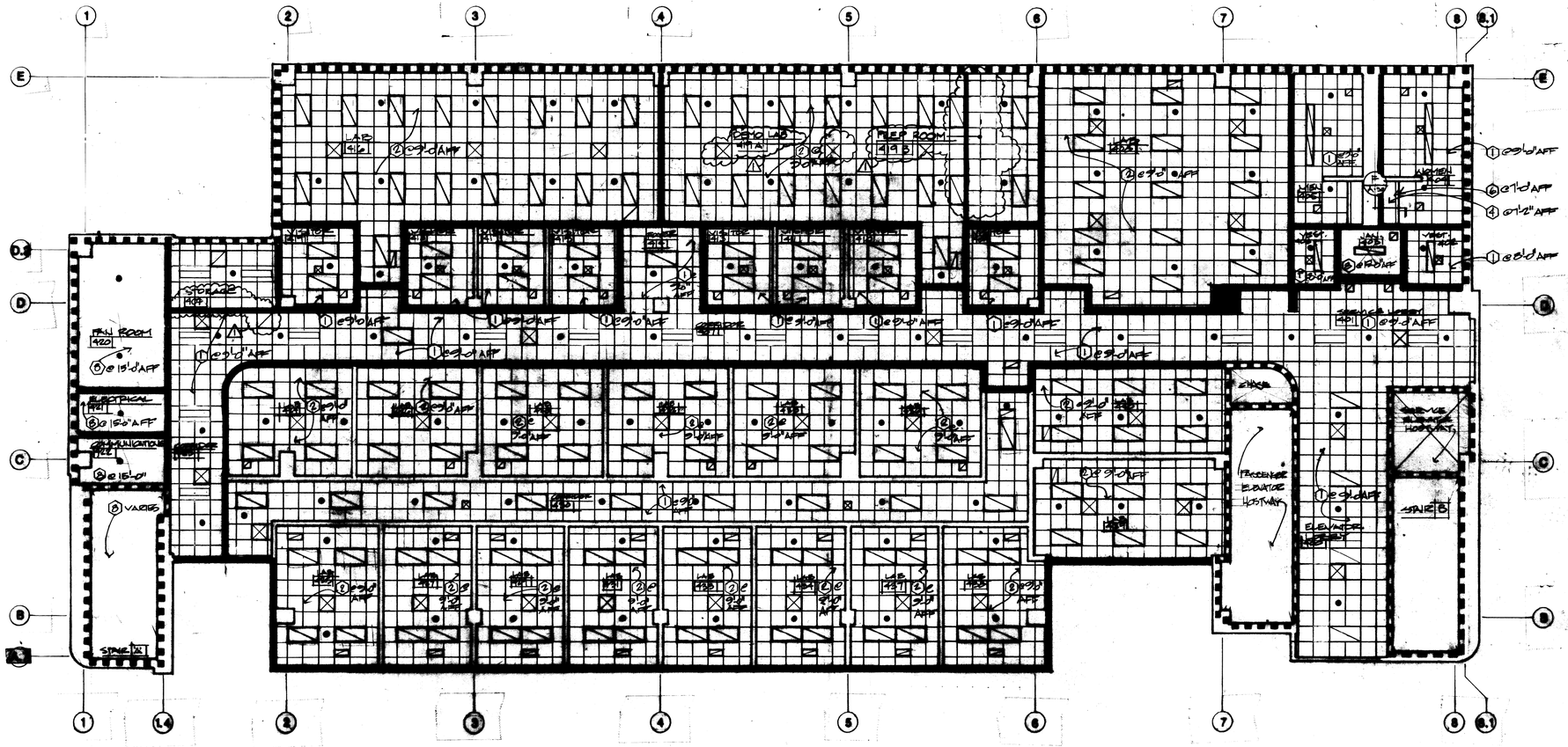
LEGEND

SHADED WALLS INDICATE WALLS WHICH EXTEND TO UNDERSIDE OF SLAB ABOVE, SEE DET. A/A-40.

CROSS-HATCHED WALLS INDICATE FIRE-RATED WALLS WHICH EXTEND TO UNDERSIDE OF SLAB ABOVE, SEE DET. 8/A-40.

UNSHADED WALLS EXTEND ONE FULL BLOCK COURSE (OR 6" FOR DRYWALL PARTITIONS) ABOVE ADJACENT CEILINGS.

NOTE: SEE MECHANICAL & ELECTRICAL DRAWING LEGEND SHEETS FOR SYMBOL DESIGNATIONS FOR DIFFUSERS, GRILLES, SPRINKLER HEADS, LIGHT FIXTURES, & OTHER ITEMS.



FOURTH FLOOR
REFLECTED CEILING PLAN
1/8"=1'0"

CEILING TYPES SCHEDULE

1. 2x7 SUSP. ACOUS. CEILING w/ EXPOSED GRID (TYPE A)
2. 2x2 SUSP. ACOUS. CEILING w/ EXPOSED GRID (TYPE B)
3. 2x4 SUSP. ACOUS. CEILING w/ EXPOSED GRID (TYPE B)
4. PARABOLIC LENS EGG CRATE
5. 5/8" EXTERIOR GYP. BD. ON SUSPENSION SYSTEM
6. 5/8" GYP. BD. ON METAL STUDS
7. ACOUS. PANELS ON METAL FURRING
8. EXPOSED STRUCTURE
9. PRE-FINISHED METAL PANEL

ABBREVIATIONS

AFF-ABOVE FINISHED FLOOR
ARF-ABOVE RAISED FLOOR

AS BUILT

BERNARD CARTER-BARNHART REGISTERED ARCHITECT COMMONWEALTH OF KENTUCKY

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by
director - design and construction division
10.19.87 date

FOURTH FL. REFL. CEILING PLAN

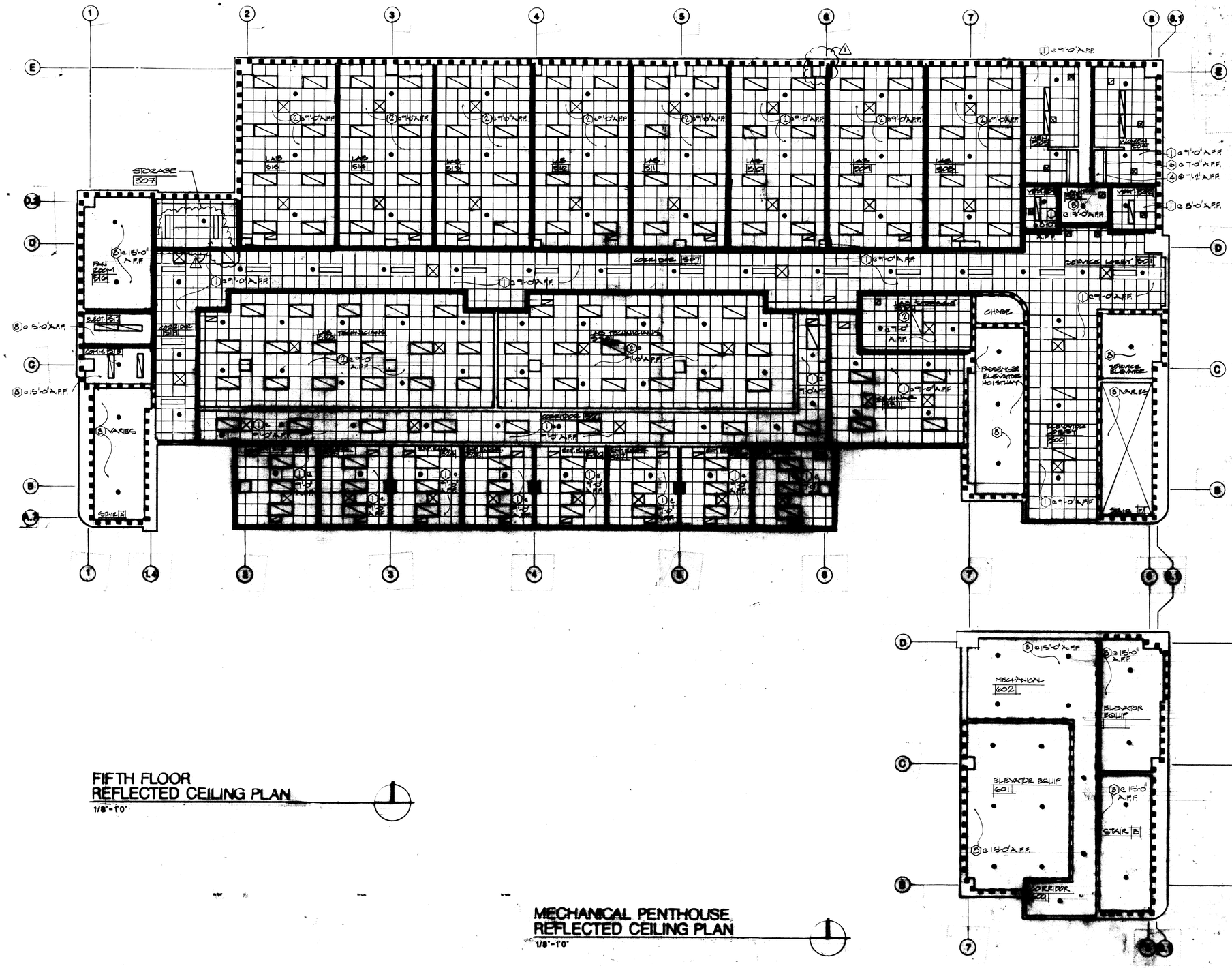
Herman Carter Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606-254-1351

JOB NO.	8706
DATE	10-1-87
DRAWN	STAFF
CHECKED	CEB
FILE NO.	431.0

REVISIONS
1 FEB. 7, 1990

SHEET
A-44

Cab # 82 Slot A-3 Document # 004029



LEGEND

▬	SHADED WALLS INDICATE WALLS WHICH EXTEND TO UNDERSIDE OF SLAB ABOVE, SEE DET. A/A.40.
▬▭▬	DASHED WALLS INDICATE FIRE-RATED WALLS WHICH EXTEND TO UNDERSIDE OF SLAB ABOVE. SEE DET. B/A.40
═	UNSHADED WALLS EXTEND ONE FULL BLOCK COURSE (OR 6" FOR DRYWALL PARTITIONS) ABOVE ADJACENT CEILINGS.

NOTE: SEE MECHANICAL & ELECTRICAL DRAWING LEGEND SHEETS FOR SYMBOL DESIGNATIONS FOR DIFFUSERS, GRILLES, SPRINKLER HEADS, LIGHT FIXTURES, & OTHER ITEMS.

FIFTH FLOOR REFLECTED CEILING PLAN

1/8" - 1'0"

MECHANICAL PENTHOUSE REFLECTED CEILING PLAN

1/8" - 1'0"

CEILING TYPES SCHEDULE	
①	2x2 SUSP. ACOUS. CEILING w/ EXPOSED GRID (TYPE A)
②	2x2 SUSP. ACOUS. CEILING w/ EXPOSED GRID (TYPE B)
③	2x4 SUSP. ACOUS. CEILING w/ EXPOSED GRID (TYPE B)
④	PARABOLIC LENS EGG CRATE
⑤	5/8" EXTERIOR GYP. BD. ON SUSPENSION SYSTEM
⑥	5/8" GYP. BD. ON METAL STUDS
⑦	ACOUS. PANELS ON METAL FURRING
⑧	EXPOSED STRUCTURE
⑨	PRE-FINISHED METAL PANEL

ABBREVIATIONS

AFF-ABOVE FINISHED FLOOR

ARF-ABOVE RAISED FLOOR

AS BUILT

No. 1802-2056-2500

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by
director - design and construction division

10-19-87
date

FIFTH FLOOR REFLECTED CEILING PLAN

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-1351

JOB NO.	[illegible]
DATE	10-1-87
DRAWN	STAFF
CHECKED	CES
FILE NO.	431.0

REVISIONS

⚠ FEB 7, 1990

SHEET

A•45

ROBOTICS FACILITY

PROJECT NO. 431.0

UNIVERSITY OF KENTUCKY

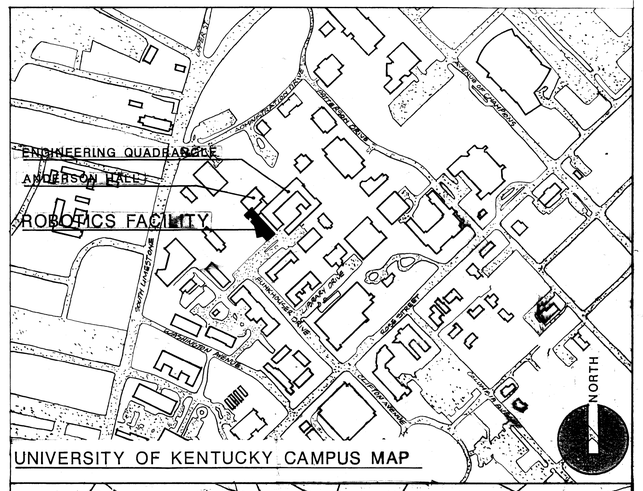
LEXINGTON, KENTUCKY

SHERMAN / CARTER / BARNHART — ARCHITECT
SUITE 1900 LEXINGTON FINANCIAL CENTER
250 WEST MAIN STREET
LEXINGTON, KENTUCKY 40507

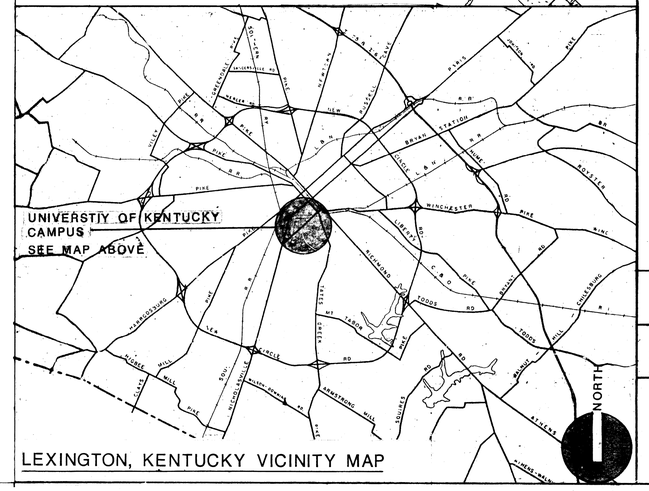
MASON & HANGER ENGINEERING, INC — STRUCTURAL ENGINEER, CIVIL ENGINEER
1500 WEST MAIN STREET
LEXINGTON, KENTUCKY 40507

BELCAN CORPORATION — MECHANICAL ENGINEER, ELECTRICAL ENGINEER
10200 ANDERSON WAY
CINCINNATI, OHIO 45242

JAMES B. EVANS & ASSOCIATES — LANDSCAPE ARCHITECT
628 NORTH BROADWAY
LEXINGTON, KENTUCKY 40507



UNIVERSITY OF KENTUCKY CAMPUS MAP



LEXINGTON, KENTUCKY VICINITY MAP

AS BUILT

BUILDING STATISTICS

- KENTUCKY BUILDING CODE (KBC) COMPLIANCE 1985 (3RD EDITION)
- USE GROUP (B) BUSINESS (LABORATORIES; TESTING & RESEARCH)
- BUILDING CLASSIFICATION 1B
- GROSS SQUARE FOOTAGE 74,183 SQ. FEET

BUILDING INCLUDES:

- SMOKE DETECTORS
- SPRINKLERS
- EMERGENCY LIGHTING WITH EMERGENCY GENERATOR
- OCCUPANT LOAD 575

BUILDING "R" VALUES

Built-up Roof	24.14
Terrace Roof	17.2
Masonry Walls (Type A & B)	11.2
Metal Panel Walls	13.08
Curtainwall A & B	
Spandrels	13.64
Vision Glass	1.8

DATE

PROJECT

SET NO.

MECH-ELECT

PIPING LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	CW	CITY WATER(DOMESTIC)
	HW	HOT WATER
	HWC	HOT WATER CIRCULATING
S	SAN	SANITARY SOIL OR WASTE
	SAN V	SANITARY VENT
STR	STR	STORM DRAIN
CA	CA	COMPRESSED AIR
G	G	NATURAL GAS
F	F	FIRE PROTECTION WATER
DR	DR	DRAIN FROM EQUIPMENT
CHS	CHS	CHILLED WATER SUPPLY
CHR	CHR	CHILLED WATER RETURN
HPS	HPS	HIGH PRESSURE STEAM(175 PSIG)
LPS	LPS	LOW PRESSURE STEAM(15 PSIG)
HWS	HWS	HOT WATER HEATING SUPPLY
HWR	HWR	HOT WATER HEATING RETURN
HPC	HPC	HIGH PRESSURE CONDENSATE
LPC	LPC	LOW PRESSURE CONDENSATE
PC	PC	PUMPED CONDENSATE
SV	SV	STEAM OR SAFETY RELIEF VENT
FOS	FOS	FUEL OIL SUPPLY
FOR	FOR	FUEL OIL RETURN
FOV	FOV	FUEL OIL VENT
		PIPE CAP
		90° ELBOW DOWN
	PCW	PUMPED CITY WATER
	PHW	PUMPED HOT WATER
	PHWC	PUMPED HOT WATER CIRCULATING
	--	90° ELBOW UP
	--	TEE DOWN
	--	TEE UP
	--	PIPE OFFSETTING DOWN IN RESPECT TO ARROW
	--	PIPE OFFSETTING UP IN RESPECT TO ARROW
	--	PIPE FLANGES
	EXP. GU.	EXPANSION GUIDE
	ANC	ANCHOR
	--	ECCENTRIC REDUCER OR INCREASER
	--	CONCENTRIC REDUCER OR INCREASER
OR	--	DIRECTION OF FLOW ARROW
	UN	UNION
	STR	STRAINER (WYE TYPE)
	STR	STRAINER (WYE TYPE) WITH 3/4" BLOWOFF VALVE. PIPE TO FLOOR DRAIN
	GV	GATE VALVE
	GLV	GLOBE VALVE
	CV	CHECK VALVE
	BFV	BUTTERFLY VALVE
	PV	PLUG VALVE
	--	CIRCUIT SETTER
	--	CIRCUIT SENSOR
	BV	BALL VALVE
	SV	RELIEF OR SAFETY VALVE
	CV-2	CONTROL VALVE - TWO WAY
	CV-3	CONTROL VALVE - THREE WAY
	PRV	PRESSURE REDUCING VALVE
TI	TI	TEMPERATURE INDICATOR WITH THERMOMETER WELL
PI	PI	PRESSURE INDICATOR WITH SIPHON AND GAGE COCK
	AV	AIR VENT - MAV = MANUAL AIR VENT AAV = AUTOMATIC AIR VENT TAV = THERMOSTATIC AIR VENT
	VB	VACUUM BREAKER
T FT	FT	STEAM TRAP (FLOAT & THERMOSTATIC)
	--	DRAIN - FD - FLOOR DRAIN AD - AREA DRAIN RD - ROOF DRAIN
T INV	INV	INVERTED BUCKET TRAP
	HO	HUB OUTLET
	BP	BACKFLOW PREVENTER - REDUCED PRESSURE TYPE
	HB	HOSE BIBB
	--	COMPRESSED AIR OUTLET

ABBREVIATIONS FOR DRAWINGS

ABBREVIATION	DESCRIPTION
AC	AIR CONDITIONING UNIT
A COMP	AIR COMPRESSOR
AD	ACCESS DOOR
AFF	ABOVE FINISH FLOOR
AH	AIR HANDLING UNIT
AP	ACCESS PANEL
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BOT	BOTTOM
CC	COOLING COIL
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHP	CHILLED WATER PUMP
CO	CLEANOUT
DG	DOOR GRILLE
DIA	DIAMETER
[illegible]	DOWN
[illegible]	DRAWING
EA	EXHAUST AIR
EG	EXHAUST AIR GRILLE
EAL	EXHAUST AIR LOUVER
EAR	EXHAUST AIR REGISTER
EF	EXHAUST FAN
EWC	ELECTRIC WATER COOLER
F	FILTER
GLS	GLYCOL SUPPLY
GLR	GLYCOL RETURN
FHC	FIRE HOSE CABINET
FOP	FUEL OIL PUMP
FP	FIRE PUMP
HC	HEATING COIL
HUM	HUMIDIFIER
HVU	HEATING AND VENTILATING UNIT
HWCP	HOT WATER CIRCULATING PUMP
HWP	HOT WATER HEATING PUMP
I.E.	INVERT ELEVATION
LAV	LAVATORY
LD	LINEAR DIFFUSER
MSB	MOP SERVICE BASIN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAIL	OUTSIDE AIR INTAKE LOUVER
RA	RETURN AIR
RAL	RELIEF AIR LOUVER
RAD	RADIUS
RG	RETURN AIR GRILLE
RR	RETURN AIR REGISTER
[illegible]	RELIEF FAN
SA	SUPPLY AIR
SR	SUPPLY AIR REGISTER
SCP	STEAM CONDENSATE PUMP
SF	SUPPLY FAN
ST	SOUND TRAP
TG	TRANSFER AIR GRILLE
UR	URINAL
UH	UNIT HEATER
VAV	VARIABLE AIR VOLUME BOX
WC	WATER CLOSET
PHWHS	PACKAGE HOT WATER HEATING SYSTEM
DWP	DOMESTIC WATER PUMP
DHWP	DOMESTIC HOT WATER PUMP
DHWRP	DOMESTIC HOT WATER RECIRCULATING PUMP
FHC	FIRE HOSE CONNECTION
VTR	VENT THRU ROOF

DUCTWORK SYMBOLS

ROUND

DOUBLE LINE	DESCRIPTION	SINGLE LINE
12 ø	12" DIAMETER ROUND DUCT	12 ø
	FLEXIBLE DUCT	
	DUCT INDICATION FOR STACKING	
	DUCT TURNING TOWARD VIEWER	
	DUCT TURNING AWAY FROM VIEWER	
	ROUND ELBOW	
	MITER ELBOW	
G OR M	DAMPERS V - VOLUME DAMPER M - AUTOMATIC AIR DAMPER G - BACKDRAFT DAMPER F - FIRE DAMPER	G OR M
20° MAX	TRANSITION	20° MAX
18/16 18 ø	SQUARE TO ROUND TRANSITION	
	INCLINED DROP IN RESPECT TO ARROW	
	INCLINED RISE IN RESPECT TO ARROW	
	FLEXIBLE DUCT CONNECTION	
	BELLMOUTH CONNECTION	
	TEE CONNECTION	
	TEE-Y CONNECTION	
	Y-SPLIT	
A-3 300	CEILING DIFFUSER WITH BLANKED-OFF SECTION	
A-3 300	CEILING DIFFUSER	

A DIFFUSER TYPE
3 NECK SIZE
300 CFM
162 VAV BOX 162 = ZONE/BOX NUMBER

DESIGN DATA

HEATING LOAD
NORMAL - 3,750,000 BTUH
UNDER SMOKE CONDITION - 7,500,000 BTUH

STEAM REQUIREMENTS
NORMAL - 4080 LBS/HR.
UNDER SMOKE CONDITION - 8050 LBS/HR

COOLING LOAD - 2,631,000 BTUH PRESENT; 3,333,000 FUTURE

CHILLED WATER FLOW - 415.8 GPM PRESENT; 555.6 FUTURE

DESIGN CONDITIONS:
OUTSIDE
SUMMER - 95°FDB / 73°FWB
WINTER - 3 FDB
INSIDE
OFFICES, CLASSES, ETC. - 75°FDB +/- 3°F / 50% RH NOT CONTROLLED-COOLING
- 70°FDB +/- 3°F-HEATING
COMPUTER ROOM - 72°FDB +/- 2°F / 45% RH +/- 5%
FILM STORAGE ROOM - 75°FDB +/- 3°F / 50% RH NOT CONTROLLED

OVERALL BUILDING THERMAL TRANSMITTANCE (UO) - .177 BTU / (HR.-SQ FT-F)

GROSS BUILDING SQUARE FOOTAGE - 74,183 SQ. FT.
GROSS BUILDING EXT. SURFACE AREA - 510,000 SQ. FT.

DUCTWORK SYMBOLS

RECTANGULAR

DOUBLE LINE	DESCRIPTION	SINGLE LINE
--SA-- --RA-- --TE--	SUPPLY AIR RETURN AIR TOILET EXHAUST	
12 x 12	RECTANGULAR OR SQUARE DUCT: FIRST NUMBER INDICATES DIMENSION OF SIDE SHOWN, SECOND NUMBER INDICATES SIDE NOT SHOWN.	12 x 12
24 12 OR 24 x 12	SUPPLY DUCT SECTION: FIRST NUMBER INDICATES HORIZONTAL DIMENSION IN VIEW, SECOND NUMBER INDICATES VERTICAL DIMENSION IN VIEW.	
24 12 OR 24 x 12	EXHAUST OR RETURN DUCT SECTION: FIRST NUMBER INDICATES HORIZONTAL DIMENSION IN VIEW, SECOND NUMBER INDICATES VERTICAL DIMENSION IN VIEW.	
	DUCT INDICATION FOR STACKING: T=TOP DUCT, B=BOTTOM DUCT	
	SUPPLY DUCT TURNING TOWARD VIEWER:	
	RECTANGULAR ELBOW	
	RADIUS ELBOW	
	SUPPLY DUCT TURNING AWAY FROM VIEWER:	
	RECTANGULAR ELBOW	
	RADIUS ELBOW	
	RETURN OR EXHAUST DUCT TURNING TOWARD VIEWER:	
	RECTANGULAR ELBOW	
	RADIUS ELBOW	
	RETURN OR EXHAUST DUCT TURNING AWAY FROM VIEWER:	
	RECTANGULAR ELBOW	
	RADIUS ELBOW	
	DUCT ELBOWS:	
	RECTANGULAR ELBOW W/VANES	
	RADIUS ELBOW W/VANES	
	SPLITTER DAMPER AT DUCT BRANCH SPLITTER DAMPER AT DUCT BRANCH	
	DAMPERS: V - VOLUME DAMPER (INDICATED) M - AUTOMATIC AIR DAMPER G - BACKDRAFT DAMPER F - FIRE DAMPER	
20° MAX / 30° MAX	TRANSITION IN DIRECTION OF AIR FLOW	20° MAX / 30° MAX
DN	INCLINED DROP IN RESPECT TO ARROW	DN
UP	INCLINED RISE IN RESPECT TO ARROW	UP
	COIL WITHIN DUCT	
	FLEXIBLE DUCT CONNECTION	
	AIR EXTRACTOR AT DUCT BRANCH	
45° L	BOOT TYPE CONNECTION: L = 1/4W, 4" MIN.	
A-3 300	CEILING DIFFUSER ARROW INDICATES THROW PATTERNS	
A-3 300	CEILING DIFFUSER WITH BLANKED-OFF SECTION	
A 3x3 300 Plan Elev.	SUPPLY REGISTER	
A (12x3) 300 OR	EXHAUST GRILLE RETURN GRILLE TRANSFER GRILLE	
	DOOR LOUVER	
	DOOR UNDERCUT	
(12x3)	NECK SIZE (IF BLANK SEE SCHEDULE FOR SIZE)	

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

AS BUILT

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CM-001-3

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
10.19.87

LEGEND

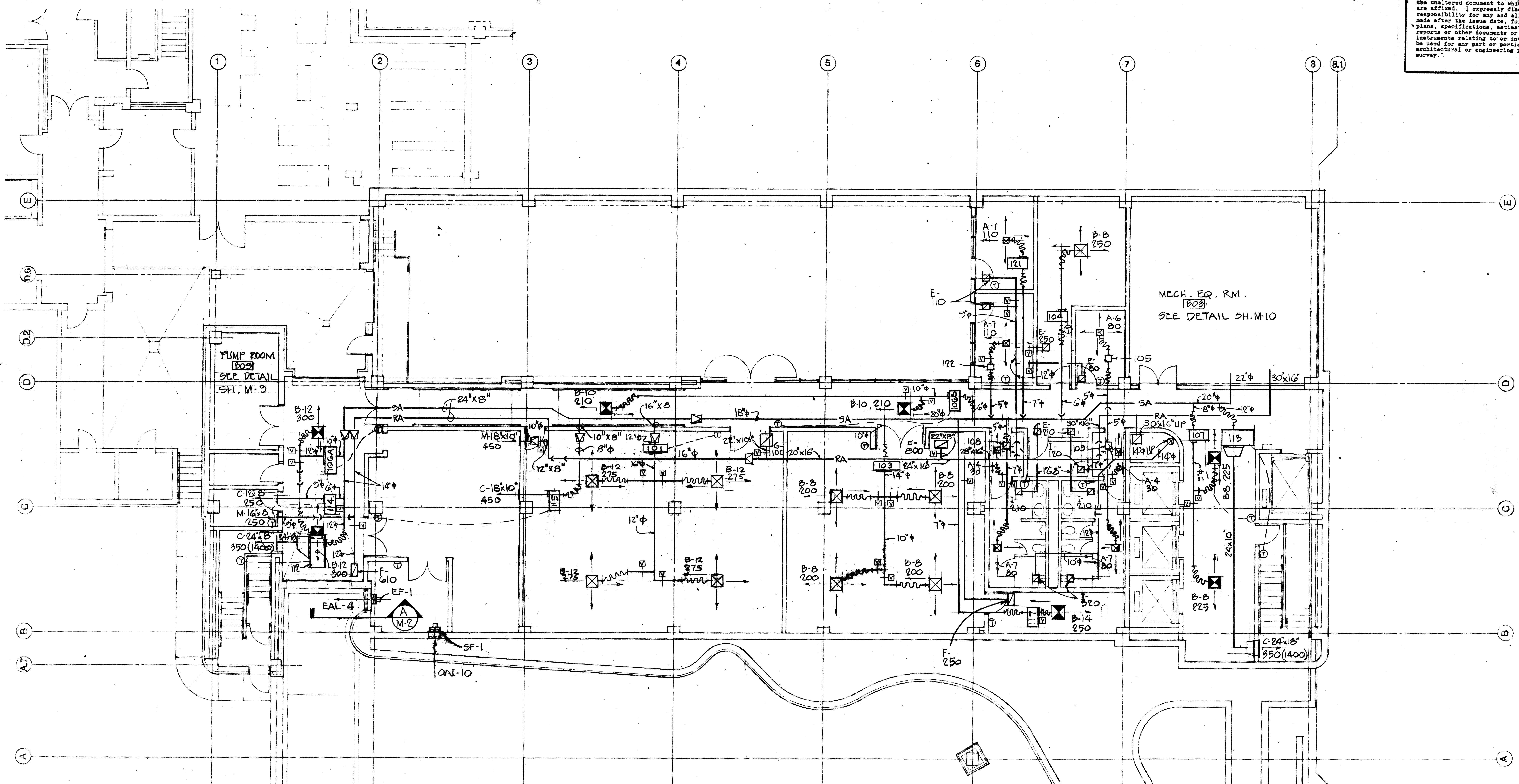
Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE

JOB NO 8706
DATE 10-16-87
DRAWN WE CASE
CHECKED
UK FILE NO 431.6

REVISIONS
3 - 90% REVIEW

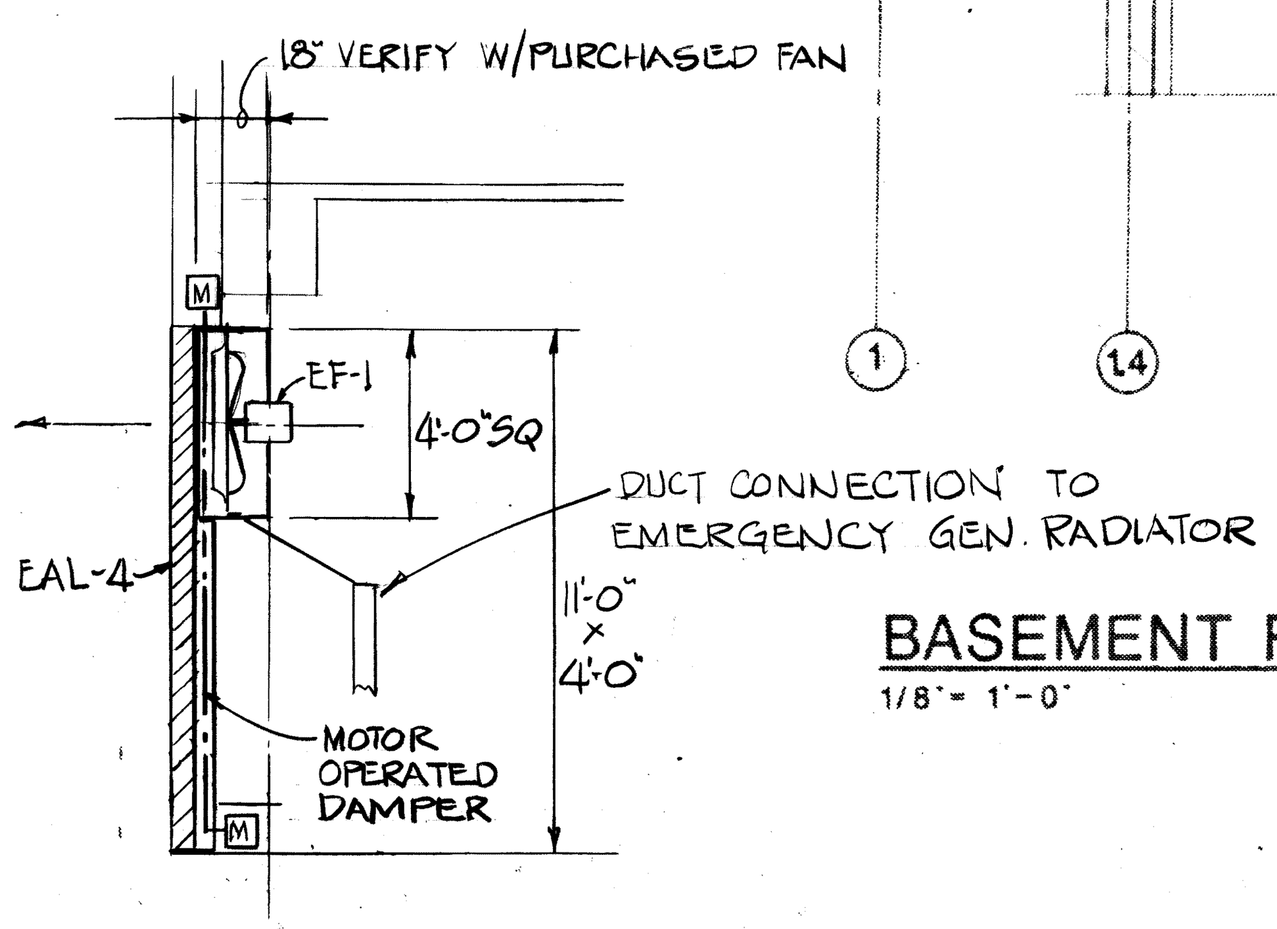
SHEET
M•1

Cab # 82 Slot B-3 Document # 004932



BASEMENT FLOOR PLAN

1/8" = 1'-0"



SECTION (A / M-2)

SCALE: 1/4" = 1'-0"

AS BUILT

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

10-19-87

BASEMENT HVAC PLAN

Sherman-Carter-Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606-254-1351

JOB NO. 8706
DATE 10-16-87
DRAWN WE CASE
CHECKED
FILE NO. 4316

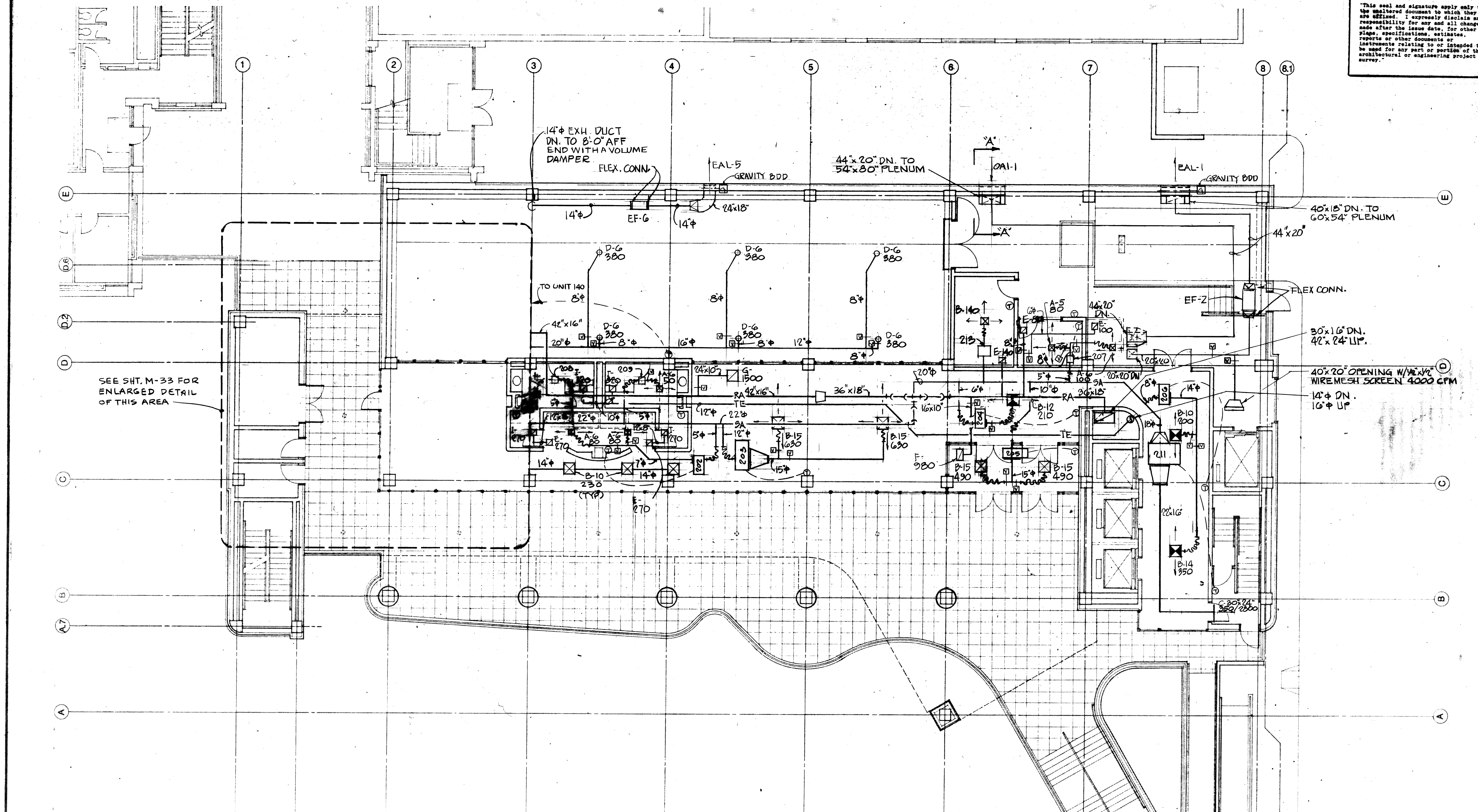
REVISIONS
3 - 90% REVIEW

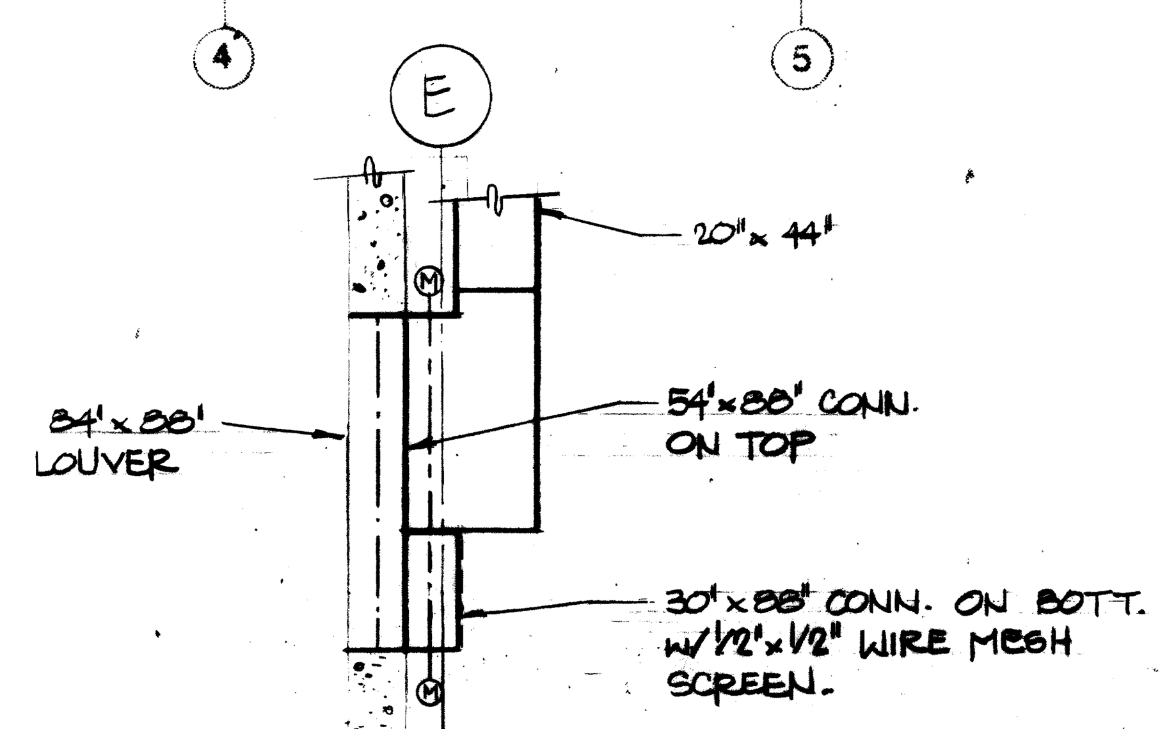
SHEET
M•2

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CM-002-3

Cab # 82 Slot B-3 Document # 004933

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."





SECTION "A-A"
SCALE: 1/4" = 1'-0"

AS BUILT

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CM-003-3

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

1ST FLOOR PLAN

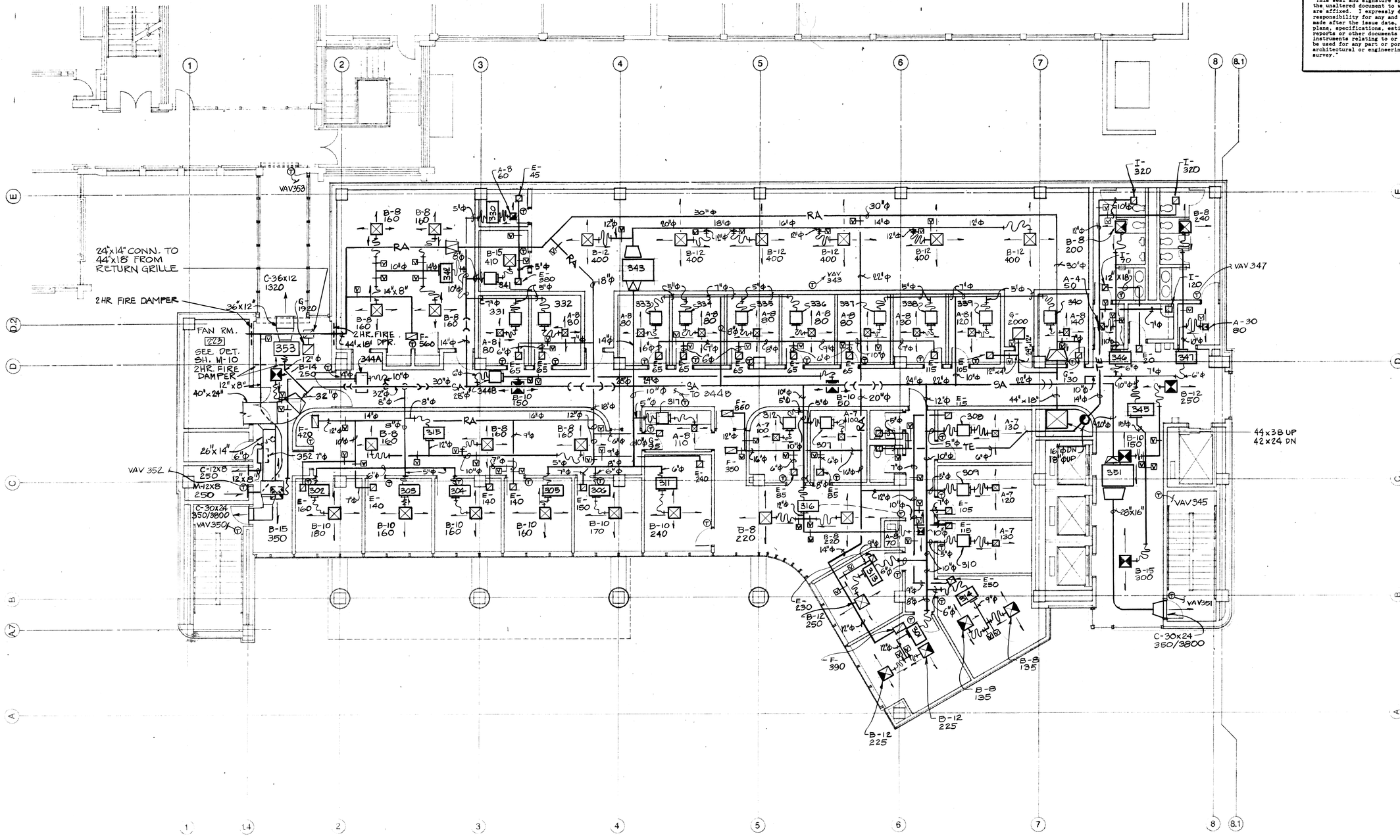
Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1800 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606-254-1251

JOB NO. 8706
DATE 10-16-87
DRAWN S. THOMPSON
CHECKED
FILE NO. 4316

REVISIONS
3 - 90% REVIEW

SHEET
M-3

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."



SECOND FLOOR PLAN

1/8" = 1'-0"

BLDG. NORTH

AS BUILT

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CM-004-3

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

10/19/87

2ND FLOOR HVAC PLAN

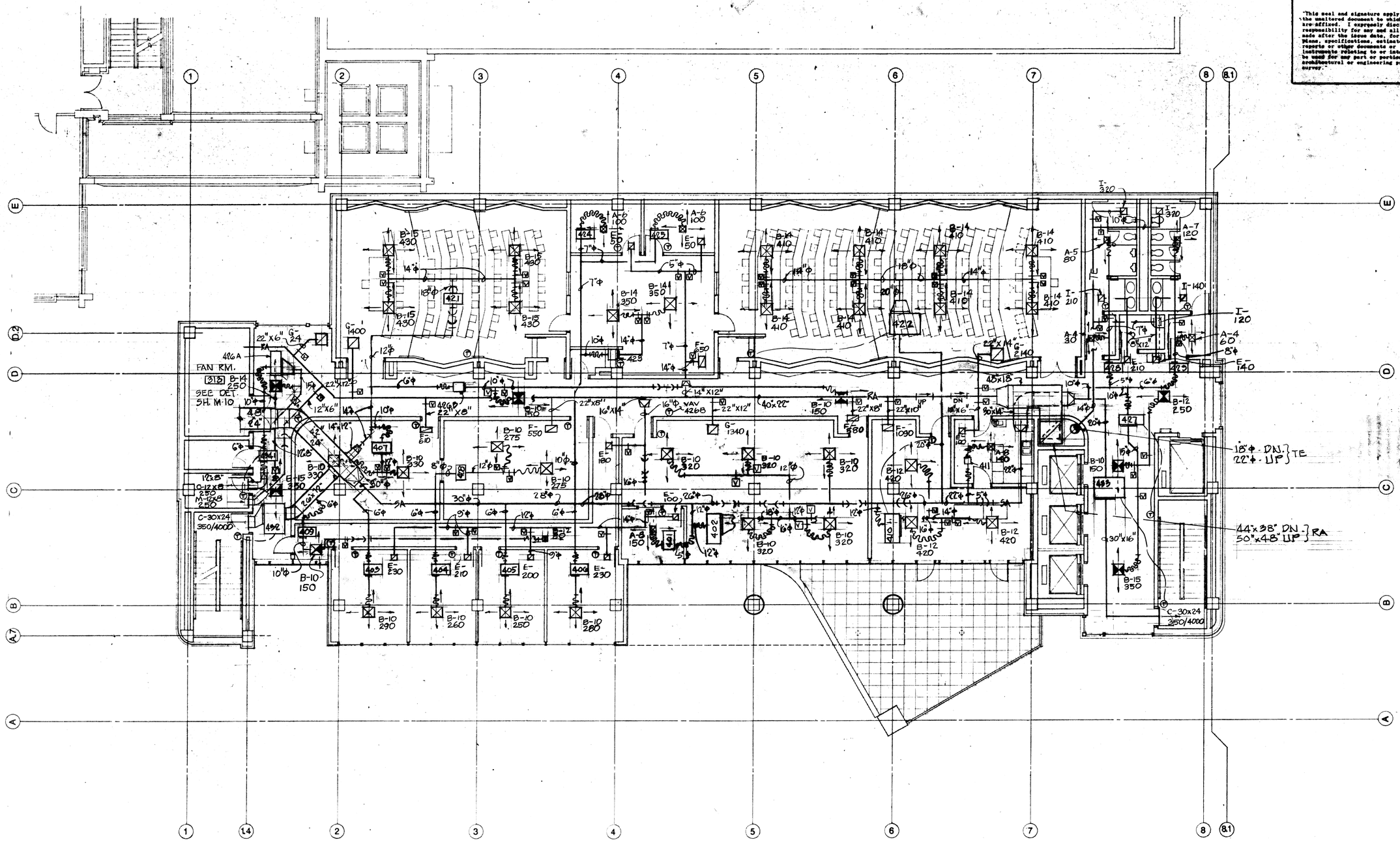
Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1990 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606-254-1351

JOB NO. 8706
DATE 10-16-87
DRAWN KE CASE
CHECKED MMC
FILE NO. 451.6

REVISIONS
3-90% REVIEW

SHEET
M•4

Cab # 82 Shot B-3 Document # 0014935



"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project of survey."

COMMONWEALTH OF KENTUCKY — ROBERT L. SMITH 13,904 — REGISTERED PROFESSIONAL ENGINEER

ROBOTICS FACILITY

LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

11-9-87

3RD FLOOR HVAC PLAN

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606-254-1351

JOB NO. 8706
DATE 10-16-87
DRAWN WE CASE
CHECKED
FILE NO. 4306

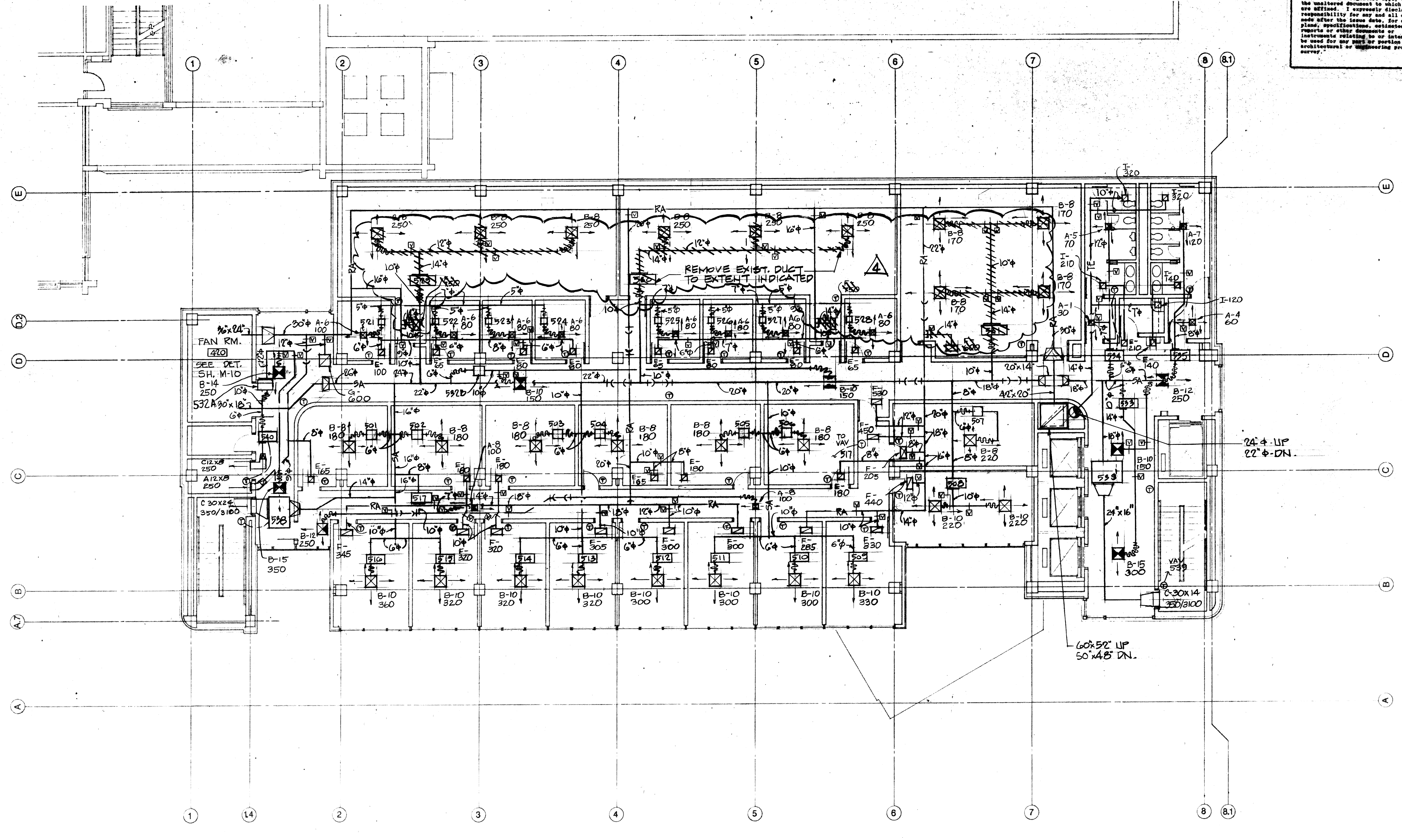
REVISIONS
3-90% REVIEW

SHEET
M-5

AS BUILT

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CM-005-3

Cab # 82 Slot B-3 Document # 0049936



FOURTH FLOOR PLAN

1/8" = 1'-0"

NOTES~

1- WORK UNDER REV. 4 SHOWN ON THIS SHEET INCLUDE DUCTWORK REMOVAL, AIR TERMINAL & VAV BOX REMOVAL TO THE EXTENT INDICATED.

ROBOTICS FACILITY

LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

10-19-87

4TH FLOOR HVAC PLAN

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1800 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606 254 1351

JOB NO.	8706
DATE	10-16-87
DRAWN	S. THOMPSON
CHECKED	
FILE NO.	431.0

REVISIONS
3- 90% REVIEW
4- ADD COMPUTER ROOM SYSTEM

SHEET M-8

AS BUILT

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CM-006-3

B-14A 900 CFM
NEW DUCT & DIFFUSER
NEW 14"x12"x12" TEE

CHANGE FROM 12"ϕ CONNECTION TO 14"ϕ OUTLET.

532A. INCREASE TO 1500 CFM. REMOVE HEATING COIL AND CAP PIPING

NOTE- DIFFUSERS B-14, B-14A & B-15 MUST BE RE-BALANCED

SEE A/C ROOM 1/4" SCALE PLAN THIS AREA, THIS SHEET.

SEE NOTE BELOW

24"ϕ-UP
22"ϕ-DN.

60"x52" UP
50"x48" DN.

FOURTH FLOOR PLAN

1/8" = 1'-0"

BLDG. NORTH

GLYCOL PIPING DIAGRAM

NTS.

EXPANSION TANK AT HIGHEST POINT IN SYSTEM ON ROOF
DRYCOOLER COIL ON ROOF
FILL
GLYCOL PUMPS ON ROOF
EACH SUPPLY CIRCUIT TO HAVE CHECK VALVE
EACH RETURN CIRCUIT TO HAVE STRAINER
1½" TYP.
FLOW SWITCH
2½" GLYCOL SUPPLY TO UNIT
2½" GLYCOL RETURN FROM UNIT
SHUTOFF VALVES ON 4TH FLOOR
HOSE BIBS ON 4TH FLOOR
A/C UNIT ON 4TH FLOOR

A/C ROOM 1/4" SCALE PLAN

SCALE 1/4" = 1'-0"

EXISTING 30"ϕ DUCT TO REMAIN
NEW A/C UNIT NOTE 4
RETURN AIR DUCT AND PLENUM RISER RUN EXPOSED BELOW CEILING DUE TO EXISTING PIPE AND DUCT OBSTRUCTIONS.
95"x11" RETURN AIR DUCT CONN. @ UNIT
20"x95" RETURN AIR PLENUM
20"x30" RETURN AIR DUCT TO PLENUM
30"x16" SUPPLY AIR DUCT
22"ϕ SUPPLY AIR DUCT
20"x20" RETURN AIR DUCT 30"x16" TO 22"ϕ TRANSITION
30"x16" SUPPLY AIR DUCTS WITH ONE DUCT UP AND OVER THE OTHER DUCT TYPICAL FOR 2 PLACES.
30"x16" SUPPLY AIR DUCT
30"x16" TO 20"ϕ TRANSITION
20"ϕ SUPPLY AIR DUCT
20"x14"

NOTES:
1. REMOVE EXISTING THERMOSTATS PLUG PNEUMATIC TUBING & PROVIDE BLANK PLATE OVER T-STAT BASE.
2. ALL NEW DUCTWORK TO BE INSULATED.
3. FIELD VERIFY LOCATION OF EXISTING DUCTS & COORDINATE NEW DUCT ELEVATIONS TO MATCH NEW CONNECTION POINTS SHOWN.
4. INSTALL OWNER PURCHASED A/C UNIT, CONDENSER, PUMP PACKAGE & ACCESSORIES

AS BUILT

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CM-0006-3

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

10-19-87

4TH FLOOR HVAC PLAN

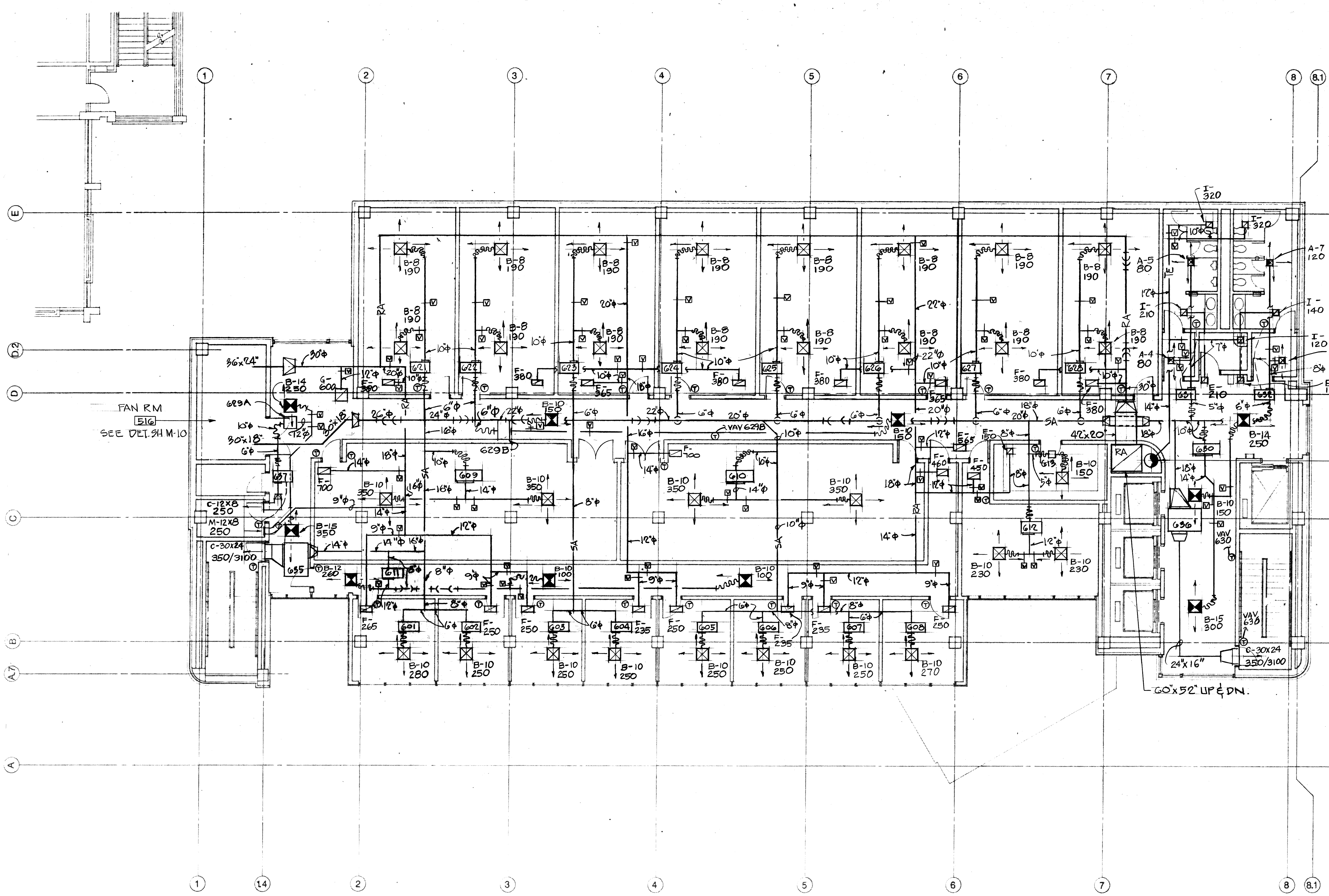
Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606 254-1351

JOB NO. 8706
DATE 10-16-87
DRAWN S. THOMPSON
CHECKED
FILE NO. 431.8

REVISIONS
3- 90% REVIEW
4- ADD COMPUTER ROOM SYSTEM

SHEET
M-6A

Cabin Slot Document # 82 B-3 0229B7



FIFTH FLOOR PLAN

1/8" = 1'-0"

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

STATE OF KENTUCKY ROBERT L. SMITH 13904

ROBOTICS FACILITY

LEXINGTON CAMPUS

UNIVERSITY OF KENTUCKY

LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by: [signature] director, design and construction division

date: 10·19·87

5TH FLOOR HVAC PLAN

Sherman·Carter·Barnhart

PARTNERS IN ARCHITECTURE

SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606-254-1351

JOB NO. 8706

DATE 10-16-87

DRAWN WE CASE

CHECKED [initials]

FILE NO. 4310

REVISIONS

3- 90% REVIEW

AS BUILT

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242

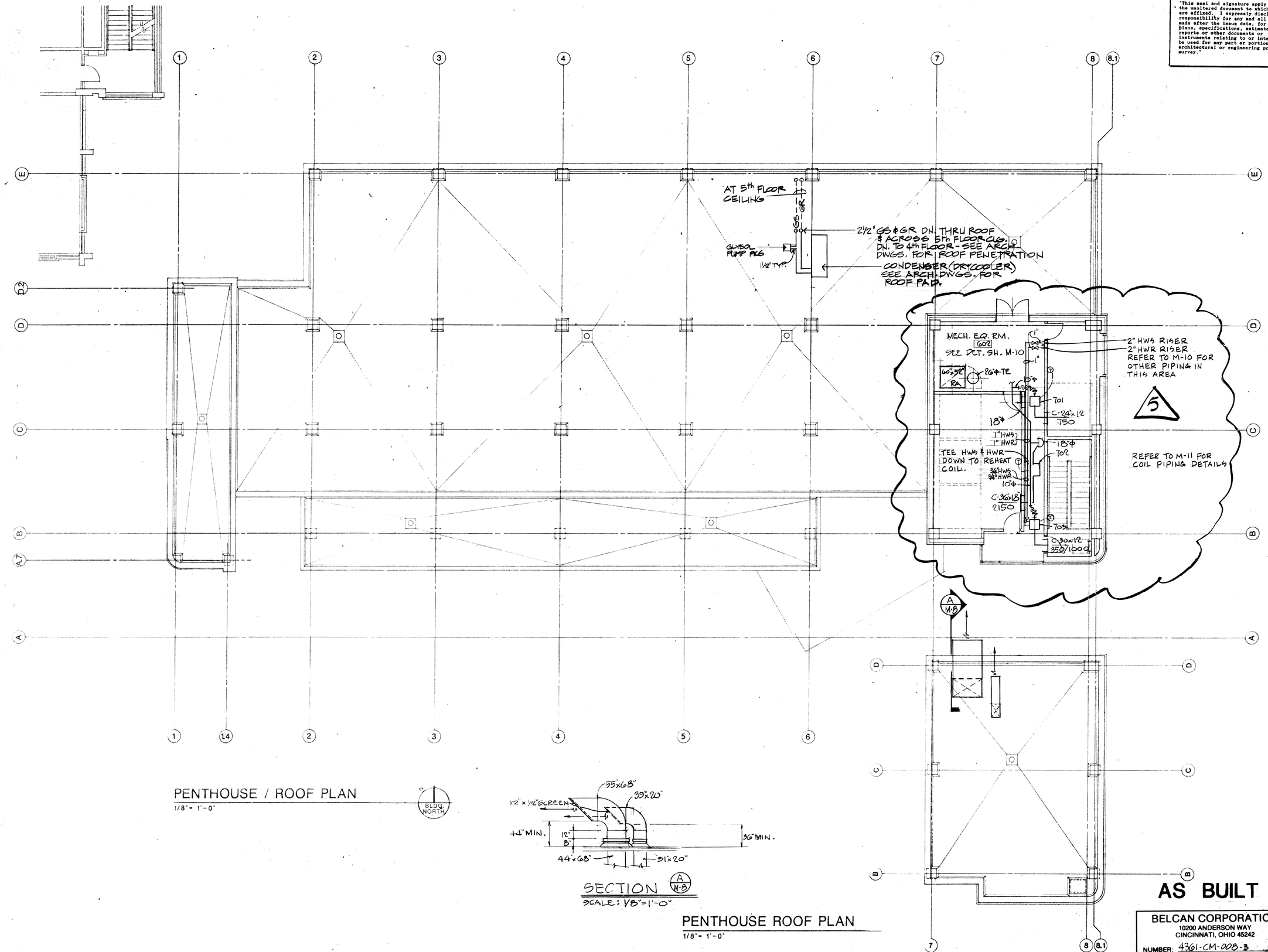
NUMBER: 4361-CM-007-3

SHEET

M·7

Cab # 82 Slot B-3 Document # 004938

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."



PENTHOUSE / ROOF PLAN

1/8" = 1'-0"

BLDG NORTH

SECTION A M-8

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

PENTHOUSE ROOF PLAN

1/8" = 1'-0"

AS BUILT

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CM-008-3

ROBERT L. SMITH 13,904 REGISTERED ARCHITECT KENTUCKY

ROBOTICS FACILITY

LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

9.19.92

PENTHOUSE/ROOF HVAC PLAN

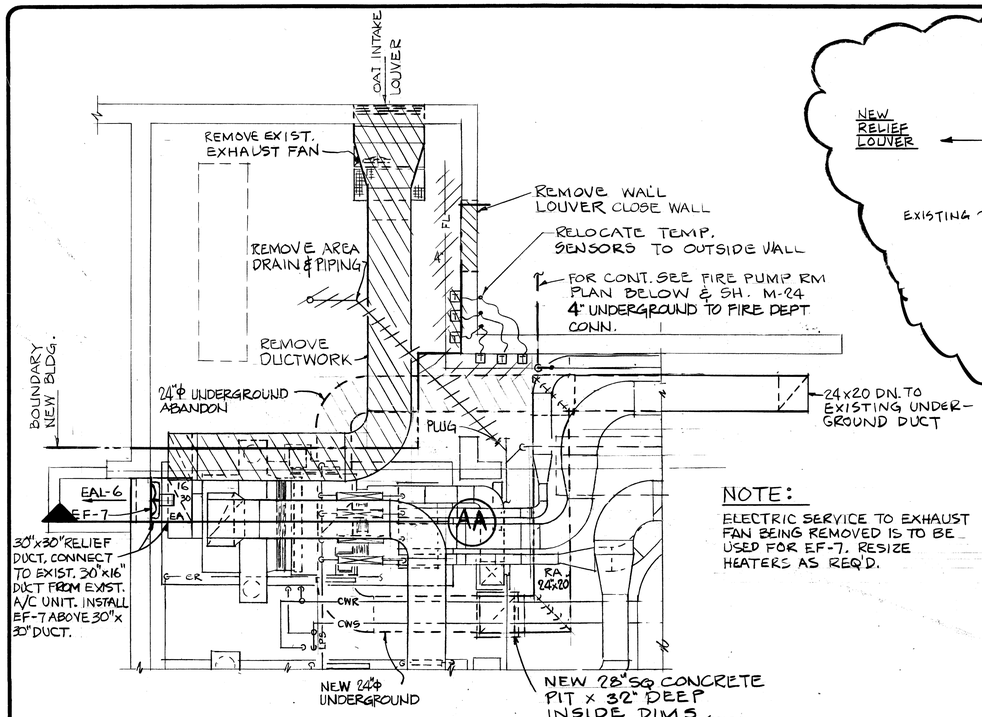
Herman · Carter · Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606 254-1351

JOB NO. 8706
DATE 10-16-87
DRAWN S. Thompson
CHECKED
FILE NO. 431.0

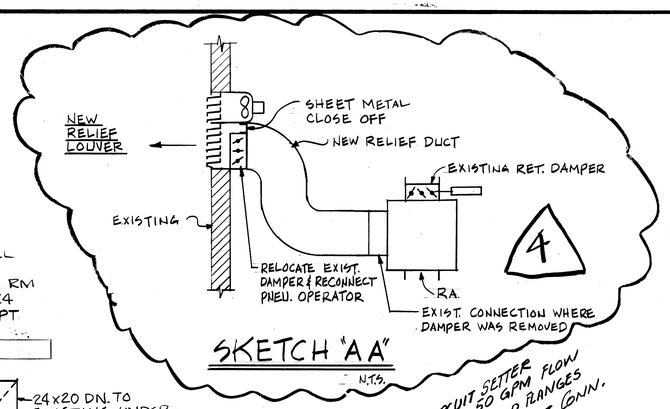
REVISIONS
3- 90% REVIEW
4- ADD COMPUTER ROOM SYSTEM
5- AS BUILT

SHEET M-8

Call # 82 Slot B-3 Document # 0049939

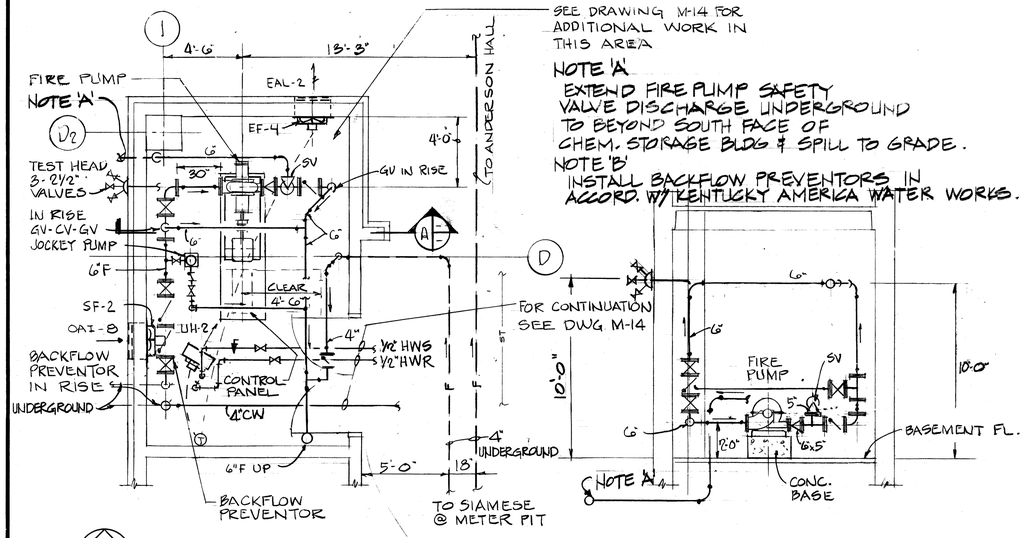


NOTE:
ELECTRIC SERVICE TO EXHAUST FAN BEING REMOVED IS TO BE USED FOR EF-7. RESIZE HEATERS AS REQ'D.



SKETCH "AA"
N.T.S.

PART. PLAN - ANDERSON HALL MECH. EQUIP. RM.
SCALE : 1/4"=1'-0"



NOTE 'A'
EXTEND FIRE PUMP SAFETY VALVE DISCHARGE UNDERGROUND TO BEYOND SOUTH FACE OF CHEM. STORAGE BLDG & SPILL TO GRADE.

NOTE 'B'
INSTALL BACKFLOW PREVENTORS IN ACCORD. W/ KENTUCKY AMERICA WATER WORKS.

PART PLAN - FIRE PUMP RM.
SCALE : 1/4"=1'-0"

SECTION - "A-A"
SCALE : 1/4"=1'-0"

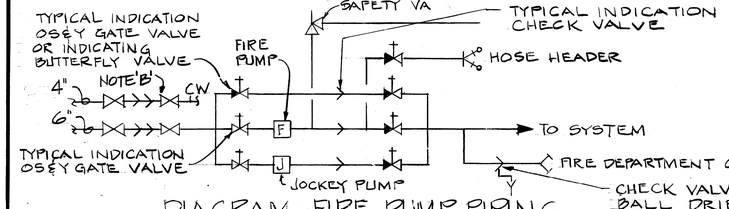
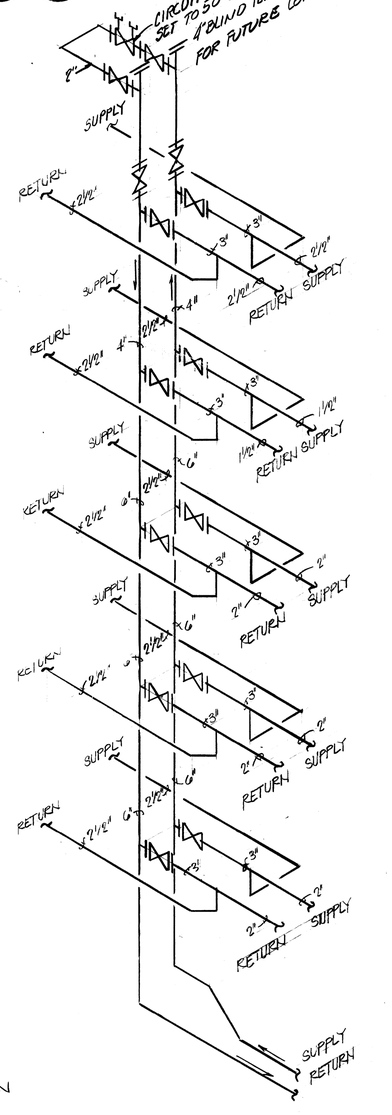
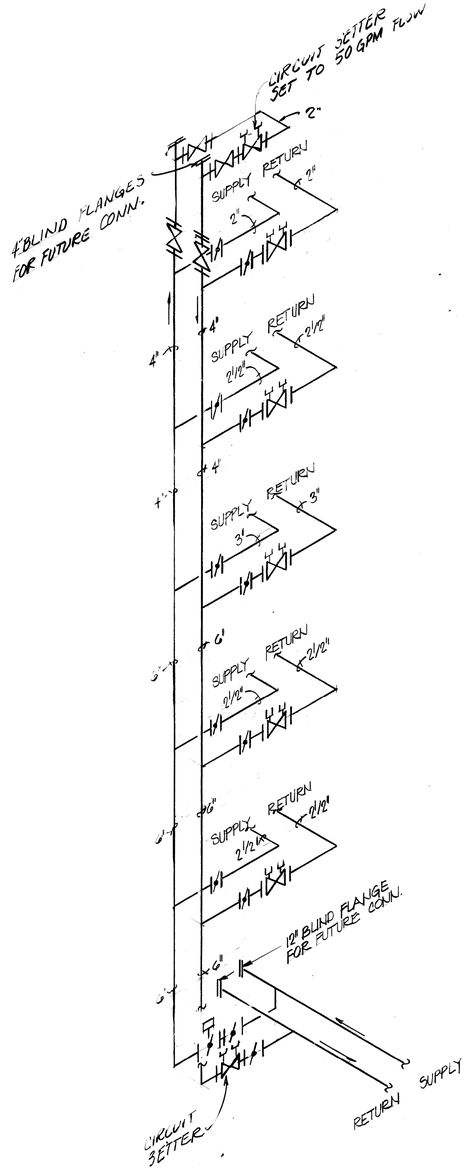


DIAGRAM - FIRE PUMP PIPING
SCALE : NTS

GENERAL NOTE:
ALL FLOOR MOUNTED MECHANICAL EQUIP. IS TO BE SET ON A 4" HIGH PAD 4" WIDER IN ALL DIRECTIONS THAN THE EQUIP. SEE DETAIL ON ARCHITECTURAL DRAWINGS.



HEATING HOT WATER RISER DIAGRAM
NO SCALE



CHILLED WATER RISER DIAGRAM
NO SCALE

AS BUILT

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CM-0009-3

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved by
director - design and construction division
10-12-87
date

PART PLANS HVAC & PIPING

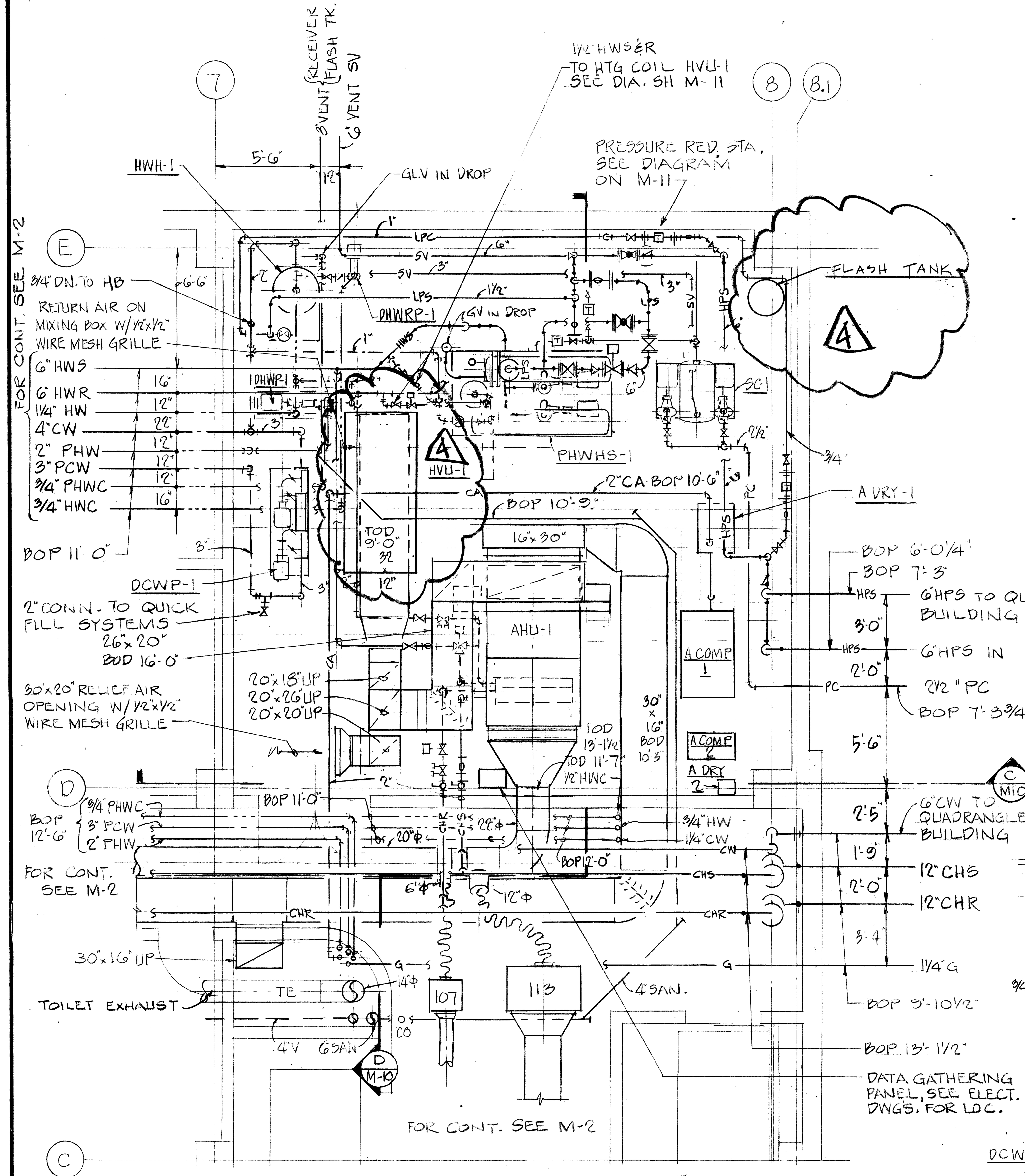
Herman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1800 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606-254-1351

JOB NO. 8706
DATE 10-16-87
DRAWN LE CASE
CHECKED
UK FILE NO. 431.0

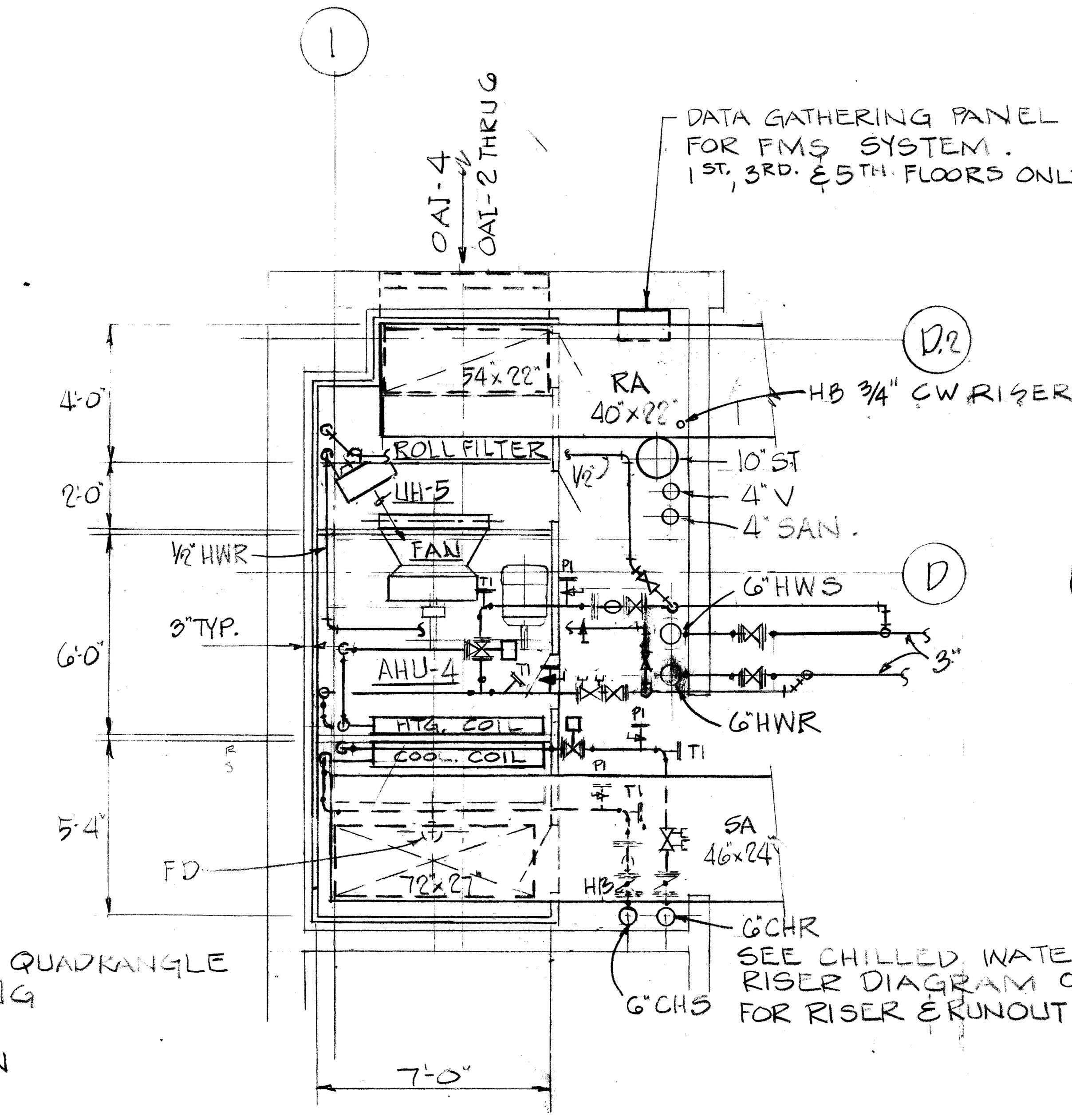
REVISIONS
3-90% REVIEW
4-AS BUILT

SHEET
M-9

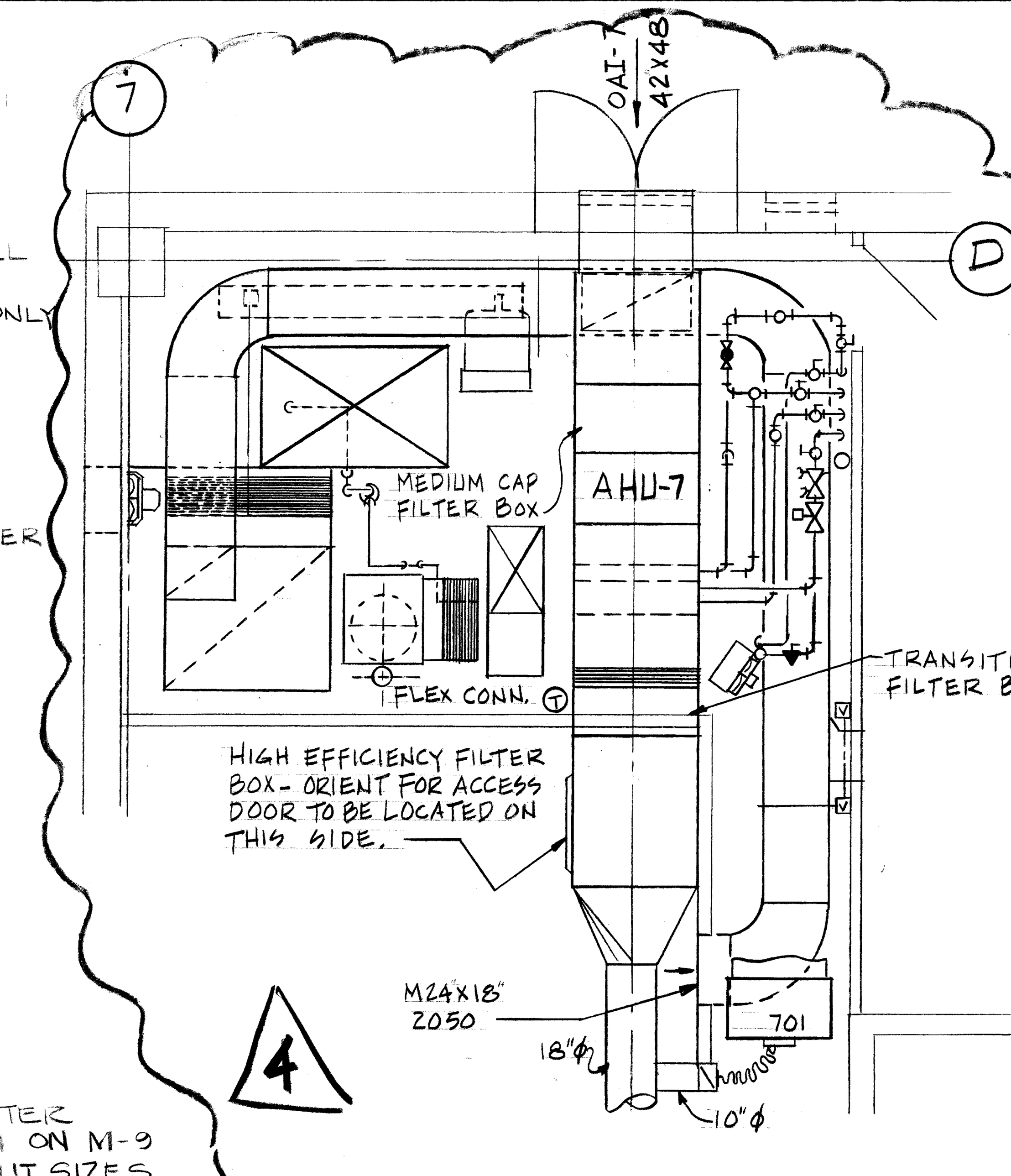
Cab.# 82 Slot B-3 Document# 004940



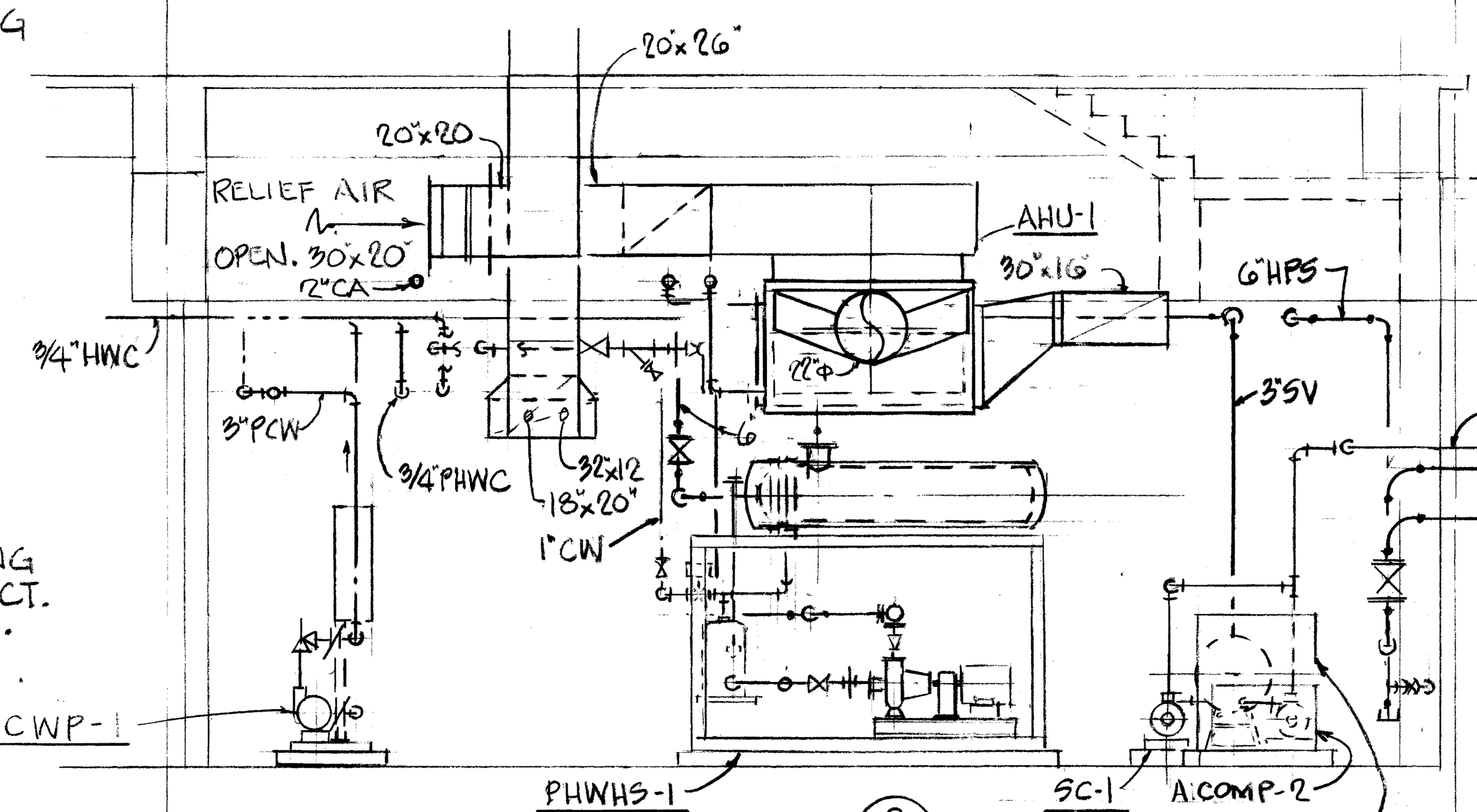
PLAN - MECH. EQ. RM. B-02
SCALE: 1/4" = 1'-0"



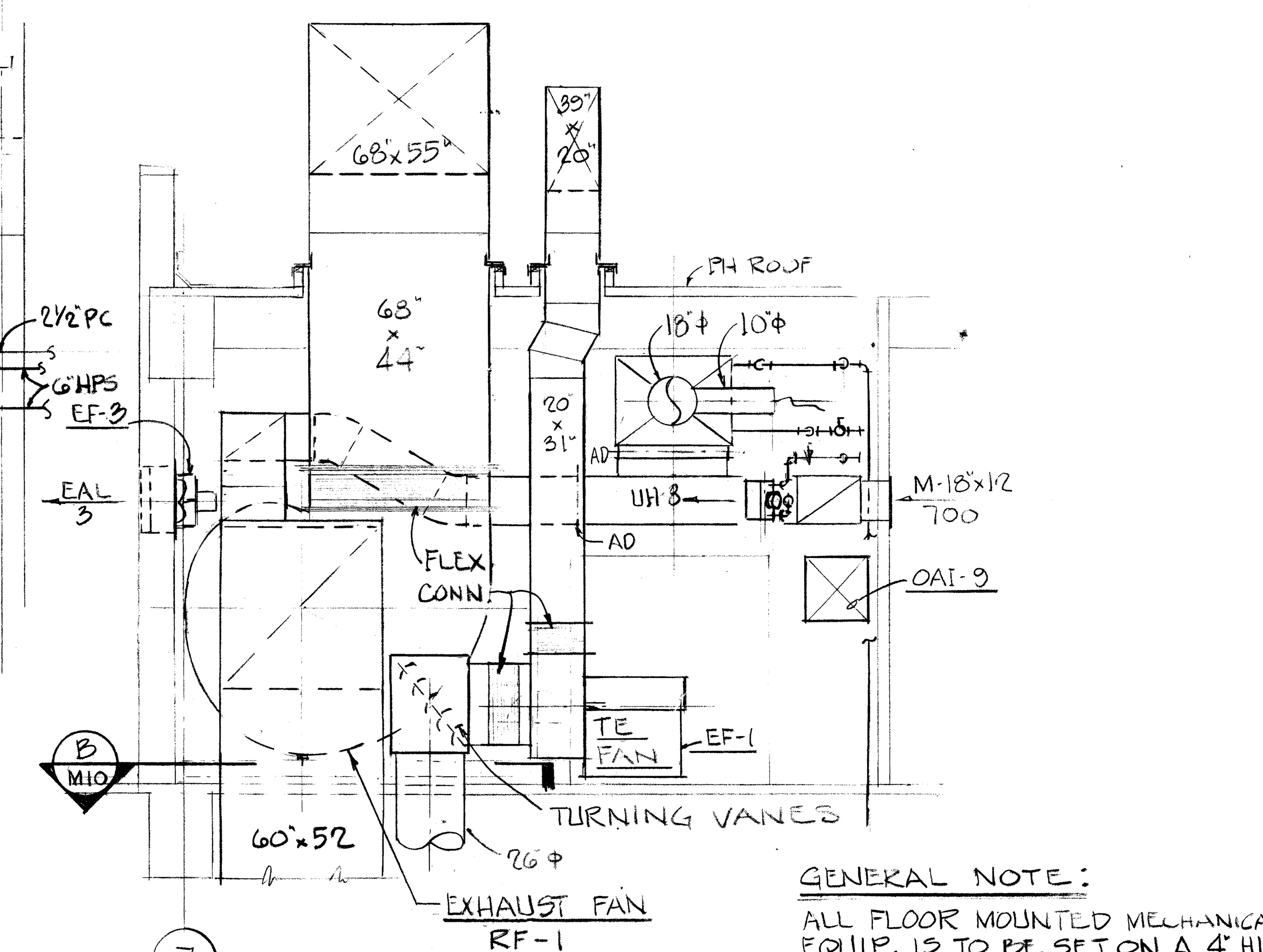
PLAN - 3RD. FLOOR FAN RM. #313
SCALE: 1/4" = 1'-0"
FAN RMS. #115, 223, 420 & 516 SIMILAR



PLAN - MECH. EQ. RM. 602
SCALE: 1/4" = 1'-0"



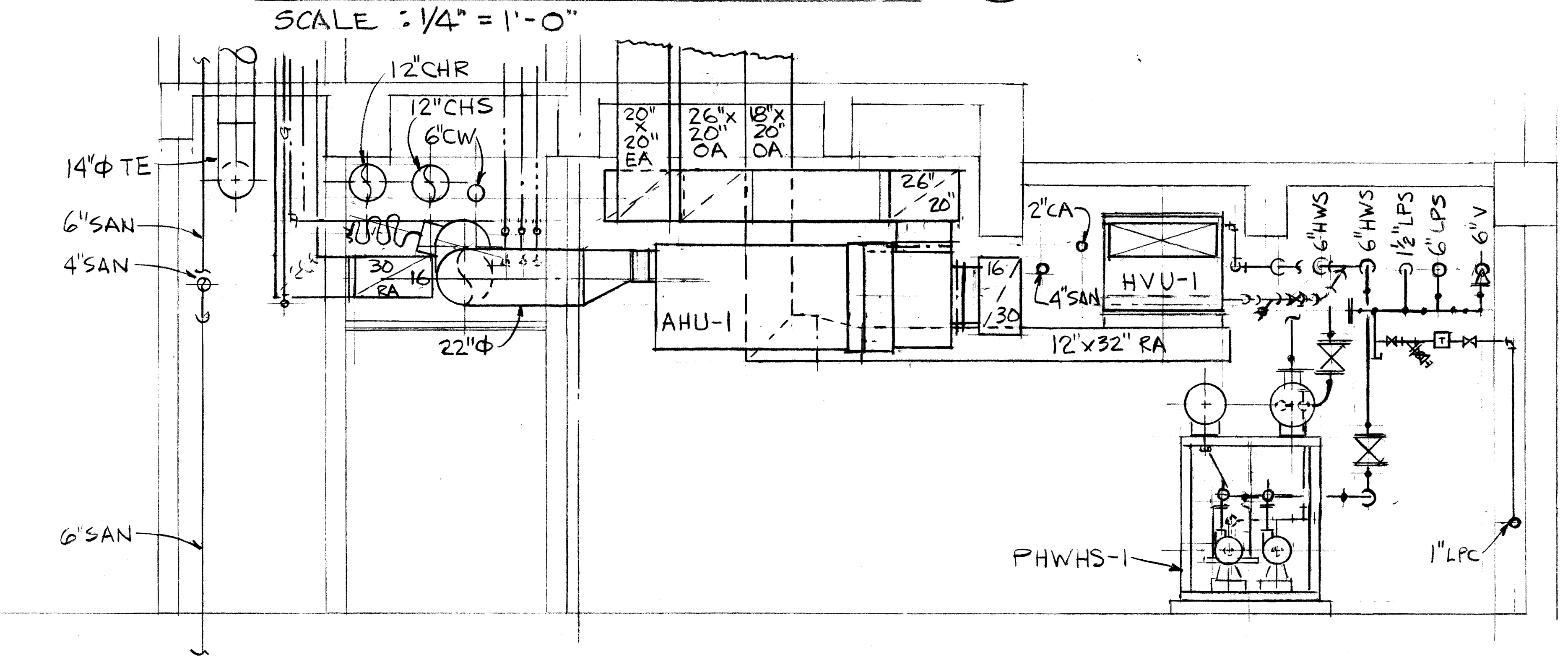
SECTION (C/M10)
SCALE: 1/4" = 1'-0"



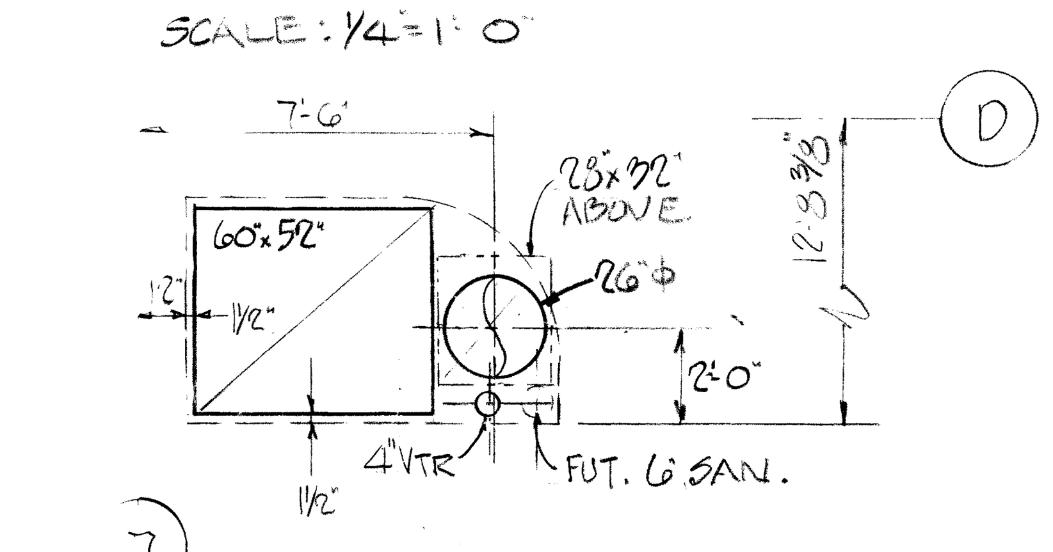
EXHAUST FAN RF-1

SECTION (A/M10)
SCALE: 1/4" = 1'-0"

GENERAL NOTE:
ALL FLOOR MOUNTED MECHANICAL EQUIP. IS TO BE SET ON A 4" HI. PAD, 4" WIDER IN ALL DIRECTIONS THAN THE EQUIP.



SECTION (D/M10)
SCALE: 1/4" = 1'-0"



SECTION (B/M10)
SCALE: 1/4" = 1'-0"

AS BUILT

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CM-010-3

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved: director - design and construction division
date: 10-19-87

PART PLANS HVAC & PIPING

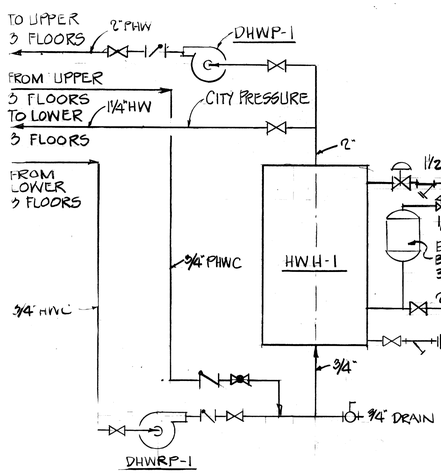
Sherman · Carter · Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-1351

JOB NO. 8706
DATE 10-16-87
DRAWN S. THOMPSON
CHECKED

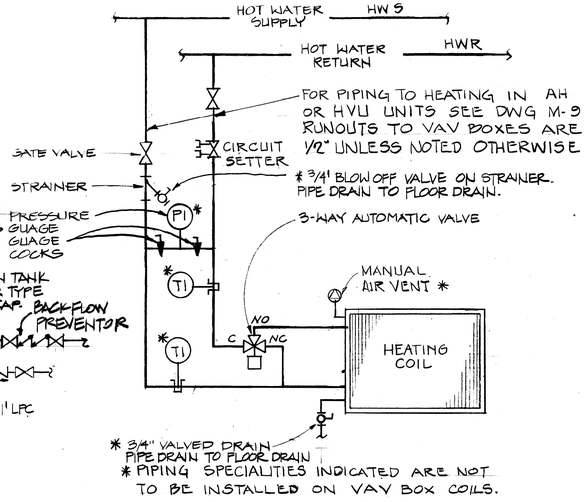
REVISIONS
3 - 90% REVIEW
4 - AS BUILT

SHEET
M·10

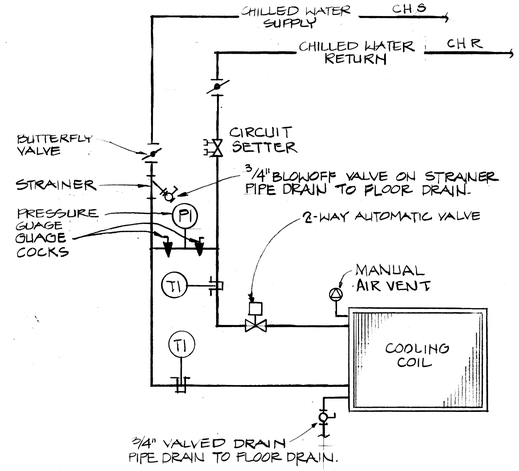
Cab # B-3 Slot 82 Document # 004941



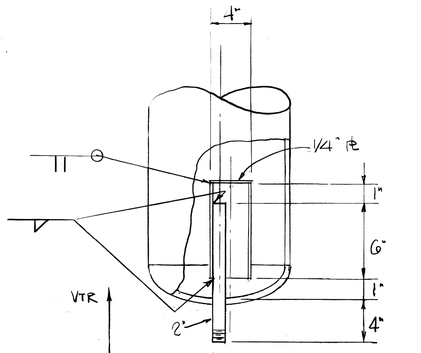
HOT WATER HEATER PIPING
N.T.S.



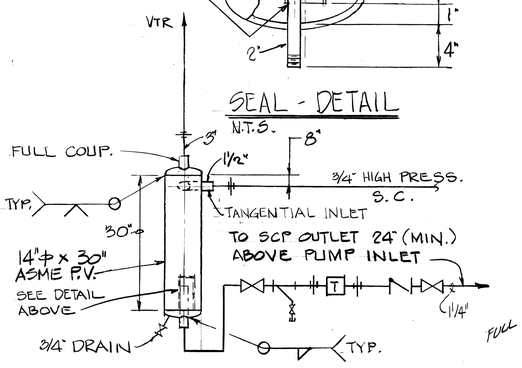
HOT WATER HEATING COIL PIPING
N.T.S.



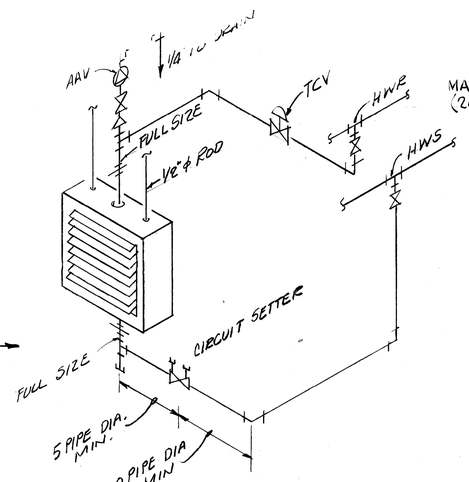
CHILLED WATER COOLING COIL PIPING
N.T.S.



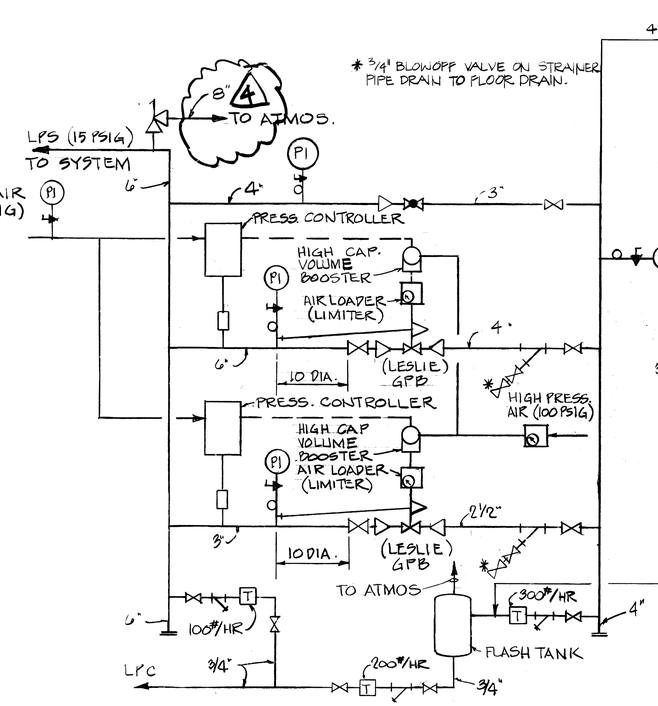
SEAL - DETAIL
N.T.S.



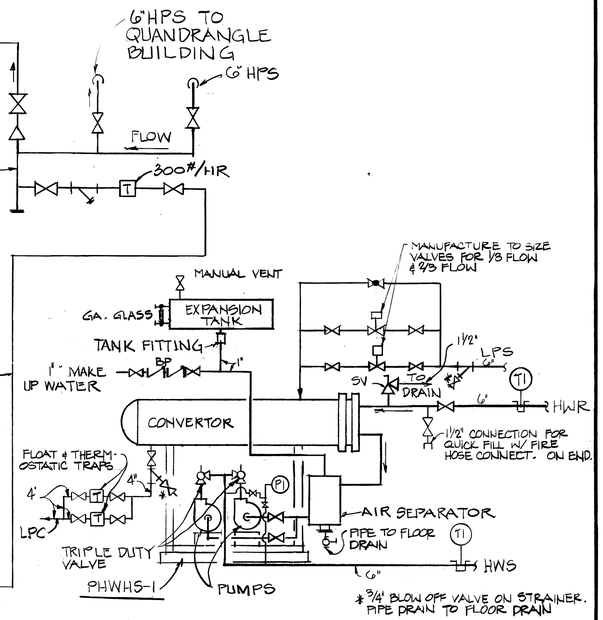
FLASH TANK DETAIL
N.T.S.



TYPICAL HORIZONTAL HOT WATER UNIT HEATER
N.T.S.



STEAM PRESSURE REDUCING SYSTEM CONTROL
N.T.S.



HEATING HOT WATER CONVERTOR PIPING
N.T.S.

AS BUILT

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361 CM-011-3

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by: director - design and construction division
10-19-87 date

MECHANICAL DETAILS

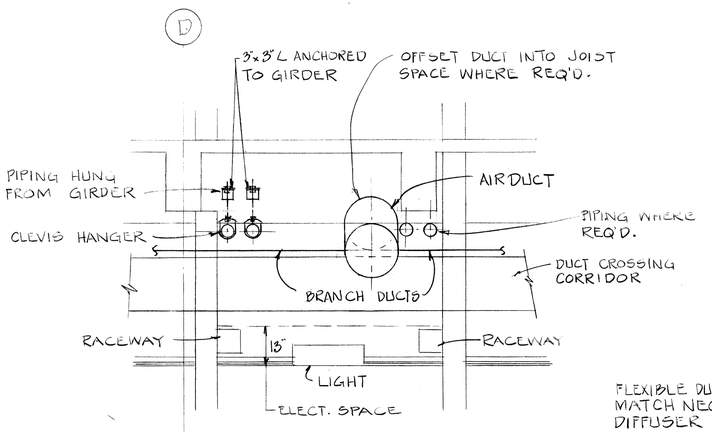
Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-1351

JOB NO. 8706
DATE 10-16-87
DRAWN S. THOMPSON
CHECKED
VA FILE NO. 431.6

REVISIONS
3 - 90% REVIEW
4 - AS BUILT

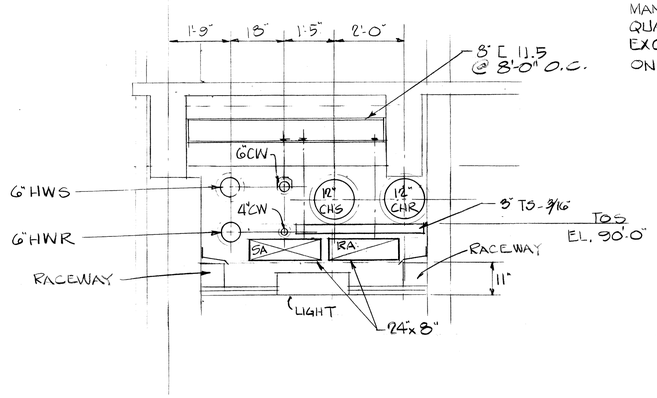
SHEET
M-11

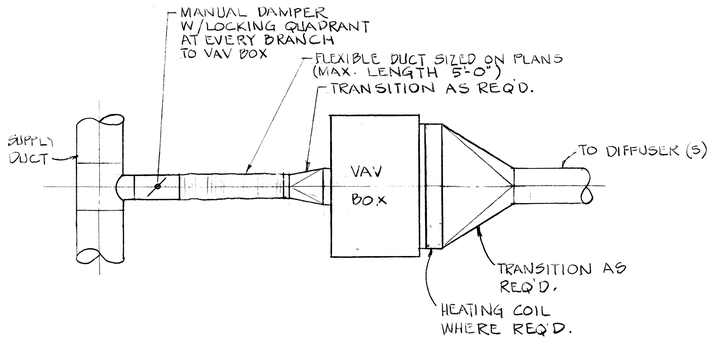
Cab # 82 Slot B-3 Document # 604942



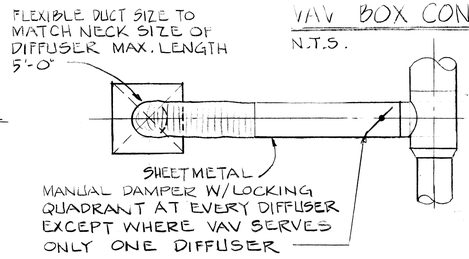
TYPICAL CORRIDOR SECTION
2ND. THRU 5TH. FLOOR

SCALE: 1/2" = 1'-0"

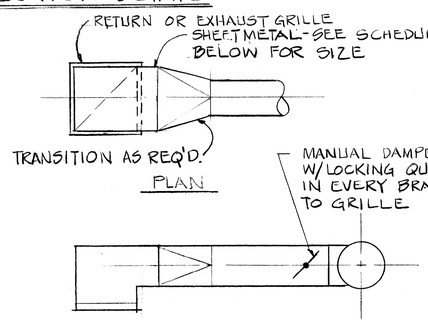




VAV BOX CONNECTION DETAIL
N.T.S.



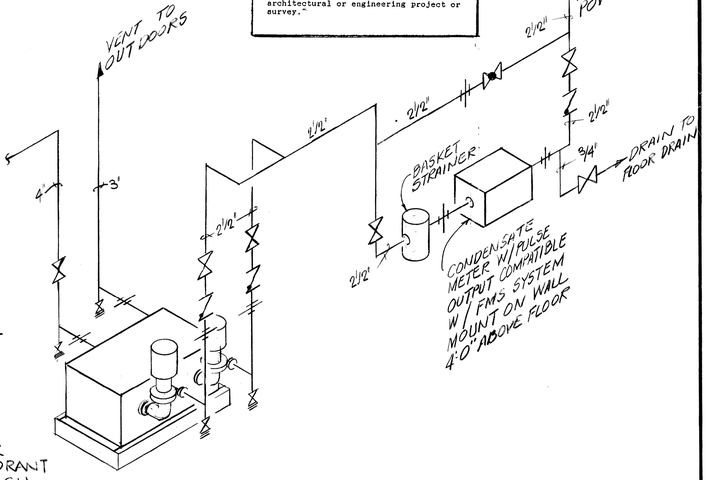
CEILING DIFFUSER DETAIL
N.T.S.



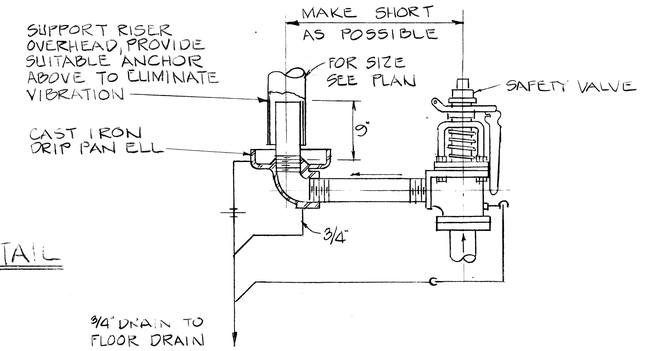
DUCT SIZE - SCHEDULE

NECK SIZE	DUCT SIZE
10"x10"	10"x10"
10"x22"	10"x22"
12"x22"	22"x14"

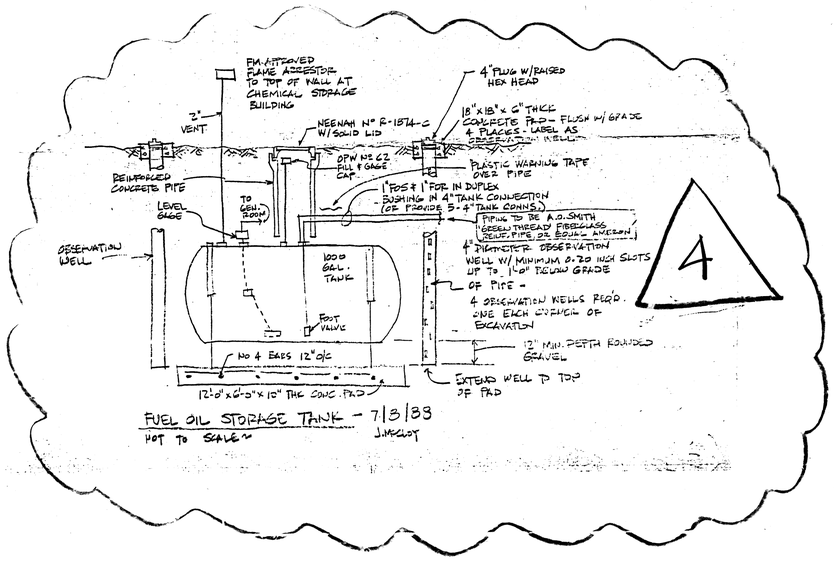
RETURN/EXHAUST GRILLE DETAIL
N.T.S.



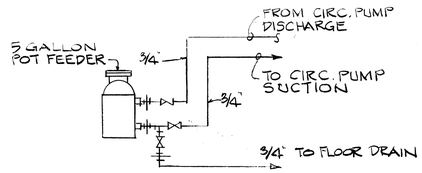
CONDENSATE PUMP AND METER PIPING
N.T.S.



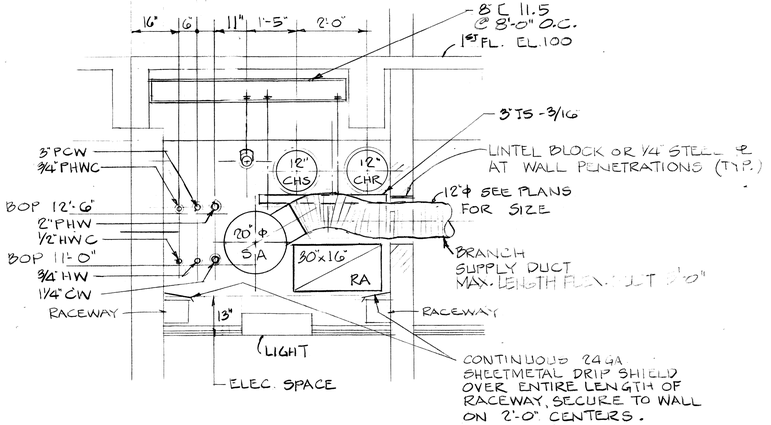
DRIP PAN ELBOW INSTALLATION
N.T.S.



FUEL OIL STORAGE TANK - 7/13/88
NOT TO SCALE



CHEMICAL FEEDER PIPING
N.T.S.



BASMT. CORRIDOR EAST
SCALE: 1/2" = 1'-0"

BASMT. CORRIDOR WEST
SCALE: 1/2" = 1'-0"

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by — director - design and construction division — date 10-19-87

MECHANICAL DETAILS

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-1351

JOB NO. 8706
DATE 10-16-87
DRAWN S. THOMPSON
CHECKED
UK FILE NO. 42.13

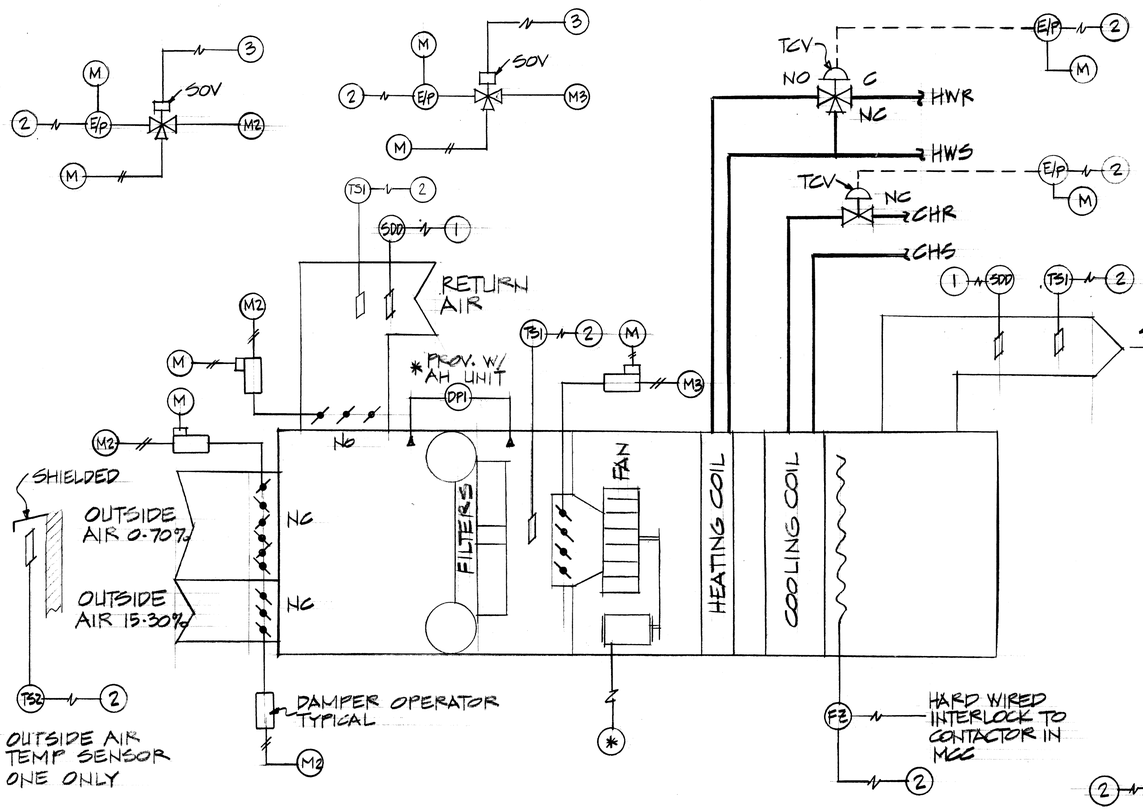
REVISIONS
3 - 90% REVIEW
4 - AS BUILT

SHEET M-12

Cab. # 82 Slot B-3 Document # 004943

AS BUILT

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CM-012-3



TEMPERATURE CONTROL - AH-1

TYPICAL FOR AH-1 THRU AH-7

TEMPERATURE CONTROL LEGEND

- (PA) 20 PSIG MAIN AIR.
- (M) CONTROL AIR-MIXING DAMPERS & VALVES.
- (IVC) CONTROL AIR-FAN INLET VANES
- ( ) 24V SIGNAL TO FIRE ALARM SYSTEM (WIRING UNDER DIV 16, SECTION 16 [illegible])
- ( ) 24V SIGNAL TO SMS SYSTEM (WIRING UNDER DIV 15, SECTION 15 [illegible])
- (SD) SMOKE CONTROL ACTUATED FROM FIRE ALARM SYSTEM (SMOKE CONTROL PROVIDED UNDER DIV 15, SECTION 15973)
- (GG) CLOSED GAGE MANOMETER
- (TE) TEMPERATURE SENSOR-OMEGA PR-12-2-100
- (PE) PRESSURE SENSOR-ROBINSON-HALPERN 157G NOSOD
- (SDD) PHOTOELECTRIC SMOKE DETECTOR-(FURNISHED & WIRED UNDER DIV 16, INSTALLED UNDER DIV 15)
- (T-M) FREE-STAT-OPSD. (WIRED UNDER DIV 15, SECTION 15973)
- (E/P) ELECTRONIC PNEUMATIC TRANSDUCER (FURNISHED & WIRED UNDER DIV 15, SECTION 15973)
- (TCV) TEMPERATURE CONTROL VALVES (FURNISHED UNDER SECTION 15973, INSTALLED UNDER SECTION 15510) SEE EQUIPMENT SCHEDULES FOR CAPACITY REQUIREMENTS
- ( ) REFER TO DESCRIPTION OF OPERATION
- (TS) TEMPERATURE SENSOR-OMEGA PR-12-2-10 W/ [illegible] WELL (FURN. UNDER SECTION 15973, INST. SECTION 15510

CONTROLS

UNOCCUPIED CYCLE

WHEN UNIT SUPPLY FAN IS DE-ENERGIZED THRU THE FMS, OUTSIDE AIR DAMPERS TO GO TO MINIMUM POSITION.

NIGHT CYCLE

SPACE TEMPERATURE SENSOR SHALL, THRU THE EMS, CYCLE THE UNIT FAN TO MAINTAIN DESIGN UNOCCUPIED TEMPERATURE (78F SUMMER, 55F WINTER)

TEMPERATURE CONTROL

TEMPERATURE SENSOR IN SUPPLY AIR DUCT SHALL THRU EMS, MODULATE HW [illegible] VALVES OR CHILLED WATER COIL OR THREE WAY CONTROL VALVE TO MAINTAIN SET SUPPLY AIR TEMPERATURE [illegible] TEMPERATURE SHALL BE RESET AS REQUIRED BY SPACE TEMPERATURE LOAD RESET SCHEDULE.

SMOKE CONTROL

ACTUATION OF MANUAL PULL STATION, DUCT SMOKE DETECTOR, AREA SMOKE DETECTOR OR SPRINKLER FLOW SWITCH, IN BUILDING FIRE ALARM SYSTEM (NOT PART OF EMS SYSTEM) TO CAUSE THE FOLLOWING ACTIONS:

- TRANSMIT A SINGLE ALARM SIGNAL TO THE EMS.

FOR THE ZONE ACTUATED, AND FUNCTIONING AS PART OF THE BUILDING TEMPERATURE CONTROL SYSTEM, SEMI-INDEPENDENT OF THE EMS-

A. ACTUATE HEATING WATER CONVERTER VALVES TO FULL OPEN POSITION WHENEVER OUTSIDE TEMPERATURE IS 55F OR LESS.

B. AFTER A 5 MINUTE (TIME DELAY (ADJUSTABLE) SHUT DOWN UNIT SUPPLY FAN IN ACTUATED FIRE ZONE, ENERGIZE RELIEF FAN AND UNIT SUPPLY FANS OF ALL OTHER FLOORS

C. OPEN VANE DAMPERS ON ENERGIZED UNIT SUPPLY FANS RELIEF FAN DAMPER TO 50 PERCENT OPEN (ADJUSTABLE) TO FULL OPEN POSITION, AND OPEN OUTSIDE AIR DAMPERS ON ENERGIZED UNITS TO FULL OPEN POSITION.

D. OPEN VAV BOX SUPPLIES TO STAIRWELLS TO FULL AIR FLOW, AND CLOSE EXTERIOR ZONE BOXES TO MINIMUM POSITION AIR FLOW INTERIOR ZONE BOXES TO GO TO FULL SHUTOFF.

E. SMOKE CONTROL SYSTEM DEACTIVATED BY NORMAL CONDITION IN FIRE ALARM SYSTEM.

OPERATION

A DOUBLE POLE FREEZE STAT WITH SENSORY LACED ACROSS FACE OF CHILLED WATER COIL SHALL BE HARD WIRE INTERLOCKED TO STOP SUPPLY FAN AND CLOSE OUT DAMPERS WH ANY ONE FOOT SECTION OR ELEMENT SENSES 40F [illegible] ON DROP ALARM SIGNAL SHALL ALSO BE TRANSMITTED TO EMS.

VARIABLE VOLUME BOXES

INTERIOR ZONE BOXES SHALL BE TIGHT SHUTOFF, COOLING ONLY WITH PNEUMATIC THERMOSTAT FOR RESPECTIVE BOX.

EXTERIOR ZONE BOXES SHALL HAVE MINIMUM SUPPLY POSITION AND HOT WATER HEATING COILS WITH THREE WAY CONTROL VALVES CONTROLLED FROM PNEUMATIC HEATING-COOLING THERMOSTAT FOR RESPECTIVE BOX.

SEQUENCE OF OPERATION

TYPICAL FOR AH-1 THRU AH-7

POWER FOR AIR HANDLING UNIT FANS AND RELIEF FAN IS SUPPLIED BY MCC IN BASEMENT WITH H-O-A SWITCHES FOR EACH RESPECTIVE MOTOR.

IN THE AUTOMATIC SWITCH POSITION, FANS ARE STARTED FROM THE EMS. ON START-UP, INLET VANES SHALL BE IN THE MINIMUM POSITION.

A STATIC PRESSURE CONTROLLER FOR EACH SYSTEM SHALL, THROUGH THE EMS MODULATE VARIABLE INLET VANES TO MAINTAIN OPTIMIZED DUCT STATIC PRESSURE.

OCCUPIED CYCLE

WHEN UNIT SUPPLY FAN IS STARTED, OUTDOOR AIR DAMPER TO OPEN TO MINIMUM POSITION. BASED ON OUTSIDE TEMPERATURE, OUTSIDE AIR, RETURN AIR AND INLET VANES ON RELIEF FAN TO MODULATE TO MAINTAIN MIXED AIR SETPOINT TEMPERATURE (55F).

A MORNING WARM-UP CYCLE TO BE INCORPORATED WHICH MAINTAINS OUTSIDE AIR DAMPERS IN CLOSED POSITION UNTIL SPACE TEMPERATURE IS 70F (ADJUSTABLE).

SUMMER WINTER SWITCHOVER

SYSTEM TO SWITCH TO SUMMER OPERATION WHEN THE FOLLOWING CONDITIONS HAVE BEEN MET, AS DETERMINED THROUGH THE EMS:

- SPACE TEMPERATURE INDICATES COOLING IS REQUIRED
- OUTSIDE AIR TEMPERATURE INDICATES COOLING IS REQUIRED
- CHILLED WATER IS AVAILABLE
- CHILLED WATER TEMPERATURE INDICATES COOLING IS AVAILABLE

CONTINUED

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

AS BUILT

NOTE~
THIS DRAWING ISSUED FOR REFERENCE FOR COORDINATION OF CONTROL VALVES, THERMOWELLS, SMOKE DETECTORS AND PRESSURE TAPS INSTALLED UNDER DIV. 15, THESE SPECIFICATIONS.

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CM-013-3

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

Herman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
LEXINGTON, KY 40507 • 606-254-1351

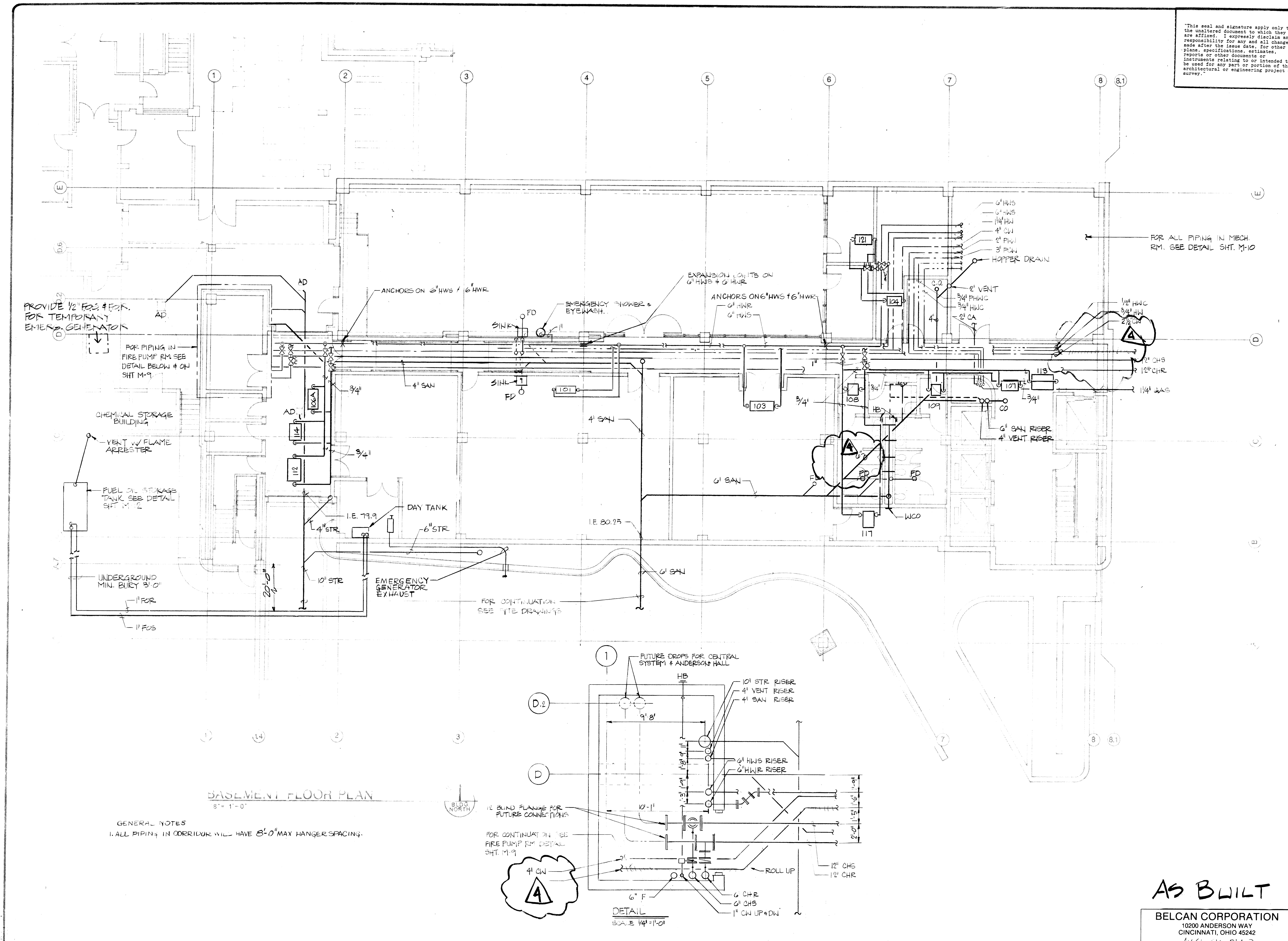
TEMPERATURE CONTROLS

JOB NO. 3706
DATE 10-16-87
DRAWN J.M.
CHECKED
UK FILE NO 4310

REVISIONS
3-90% REVIEW

SHEET
M•13

Cab # Slot Document # 004944
82 B-3



PROVIDE 1/2" FOS & FOR. FOR TEMPORARY EMERG. GENERATOR
FOR PIPING IN FIRE PUMP RM SEE DETAIL BELOW & ON SHT M-9
ANCHORS ON 6" HWS & 6" HWR
EMERGENCY SHOWER & EYEWASH
EXPANSION JOINTS ON 6" HWS & 6" HWR
ANCHORS ON 6" HWS & 6" HWR
6" HWR
6" HWS
6" HWS
6" HWS
1 1/4" HW
4" CW
2" PHW
3" PCW
HOPPER DRAIN
FOR ALL PIPING IN MECH. RM. SEE DETAIL SHT. M-10
2" VENT
3/4" PHWC
3/4" HWC
2" CA
1/2" HWC
3/4" HW
2 1/2" CW
12" CHS
12" CHR
1 1/4" GAS
4" SAN
CHEMICAL STORAGE BUILDING
VENT W/ FLAME ARRESTER
FUEL OIL STORAGE TANK SEE DETAIL SHT. M-2
4" SAN
6" SAN RISER
4" VENT RISER
6" SAN
I.E. 79.9
DAY TANK
4" STR
6" STR
I.E. 80.25
WCO
UNDERGROUND MIN. BURY 3'-0"
1" FOR
1" FOS
10" STR
EMERGENCY GENERATOR EXHAUST
FOR CONTINUATION SEE SITE DRAWINGS
6" SAN
BASEMENT FLOOR PLAN
1/8" = 1'-0"
BLDG NORTH
FUTURE DROPS FOR CENTRAL SYSTEM & ANDERSON HALL
HB
10" STR RISER
4" VENT RISER
4" SAN RISER
6" HWS RISER
6" HWR RISER
12" BLIND FLANGE FOR FUTURE CONNECTIONS
FOR CONTINUATION SEE FIRE PUMP RM DETAIL SHT. M-9
4" CW
ROLL UP
12" CHS
12" CHR
6" F
6" CHR
6" CHS
1" CW UP & DW
DETAIL
SCALE 1/4" = 1'-0"

GENERAL NOTES

1. ALL PIPING IN CORRIDOR WILL HAVE 8'-0" MAX HANGER SPACING.

AS BUILT

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

ROBOTICS FACILITY

LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

10-19-87

BASEMENT PLBG. & PIPING PLAN

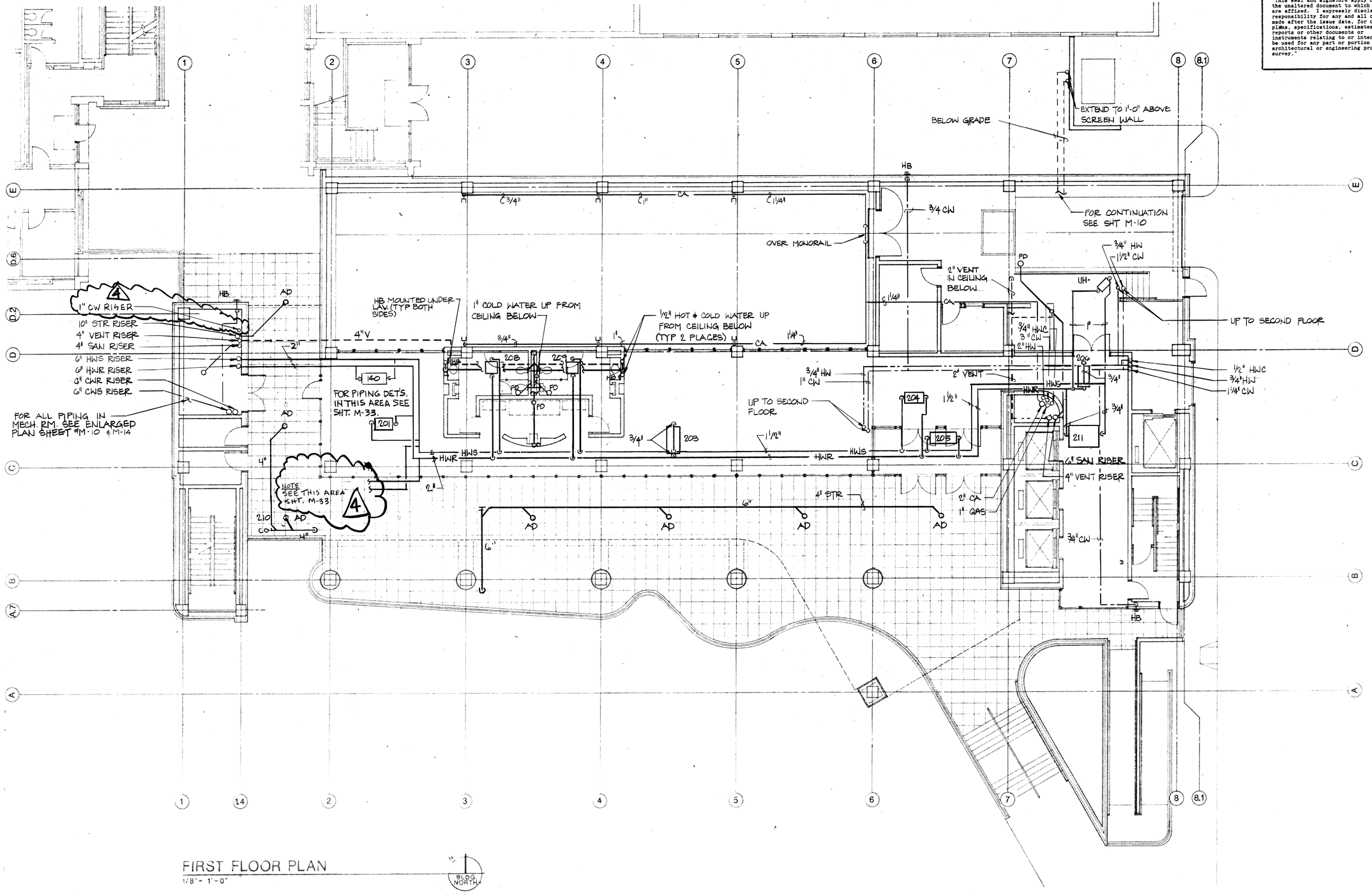
Sherman · Carter · Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606 254-1351

JOB NO.	8706
DATE	10-16-87
DRAWN	LE CASE
CHECKED	
FILE NO.	431.0

REVISIONS
3 - 90% REVIEW
4 - AS BUILT

SHEET
M•14

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CM-014.3



FIRST FLOOR PLAN

1/8" = 1'-0"

BLDG. NORTH

AS BUILT

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CM-015-3

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

KENTUCKY — ROBERT L. SMITH — 13764 — LICENSED PROFESSIONAL ENGINEER

ROBOTICS FACILITY

LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by — director design and construction division — 10.19.87 date

1ST FLOOR PLBG. & PIPING PLAN

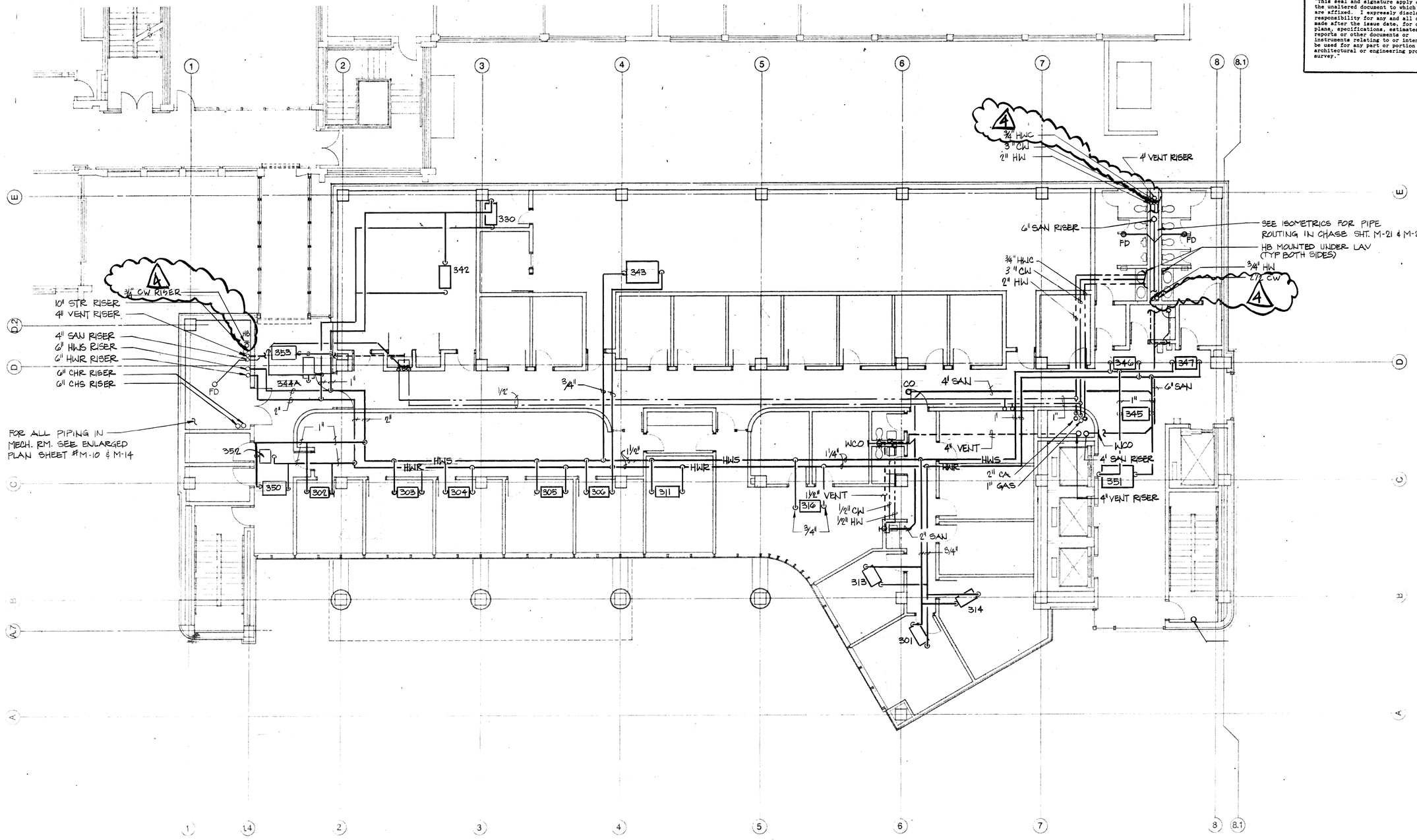
Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606 254-1351

JOB NO. 8706
DATE 10-16-87
DRAWN TAE CASE
CHECKED
FILE NO. 4316

REVISIONS
3- 90% REVIEW
4- AS BUILT

SHEET
M•15

Cab.# Slot Document #



SECOND FLOOR PLAN

1/8" = 1'-0"

BLDG NORTH

AS BUILT

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CM-016-3

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

COMMONWEALTH OF KENTUCKY
ROBERT L. BETTS
13904
REGISTERED PROFESSIONAL ENGINEER

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

10-19-87
date

approved by
Director design and construction Division

2ND FLOOR PLBG. & PIPING PLAN

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606-254-1351

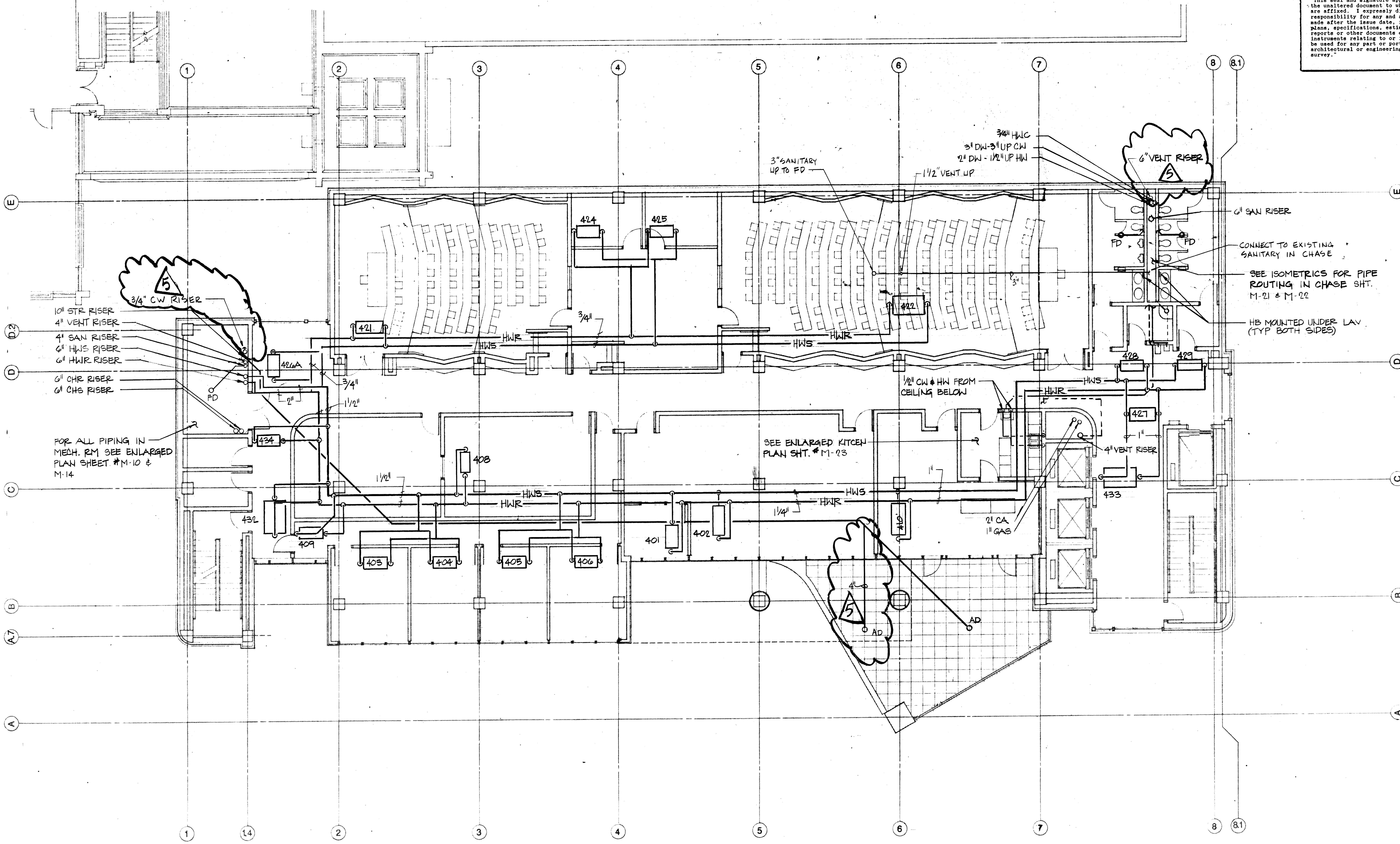
JOB NO. 8706
DATE 10-16-87
DRAWN WE CASE
CHECKED
FILE NO. 4310

REVISIONS
3- 90% REVIEW
4- AS BUILT

SHEET
M•16

Cab # 82 Slot D-3 Document # 0049947

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."



THIRD FLOOR PLAN

1/8" = 1'-0"

BLDG. NORTH

AS BUILT

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242

NUMBER: 4361-CM-017-3

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

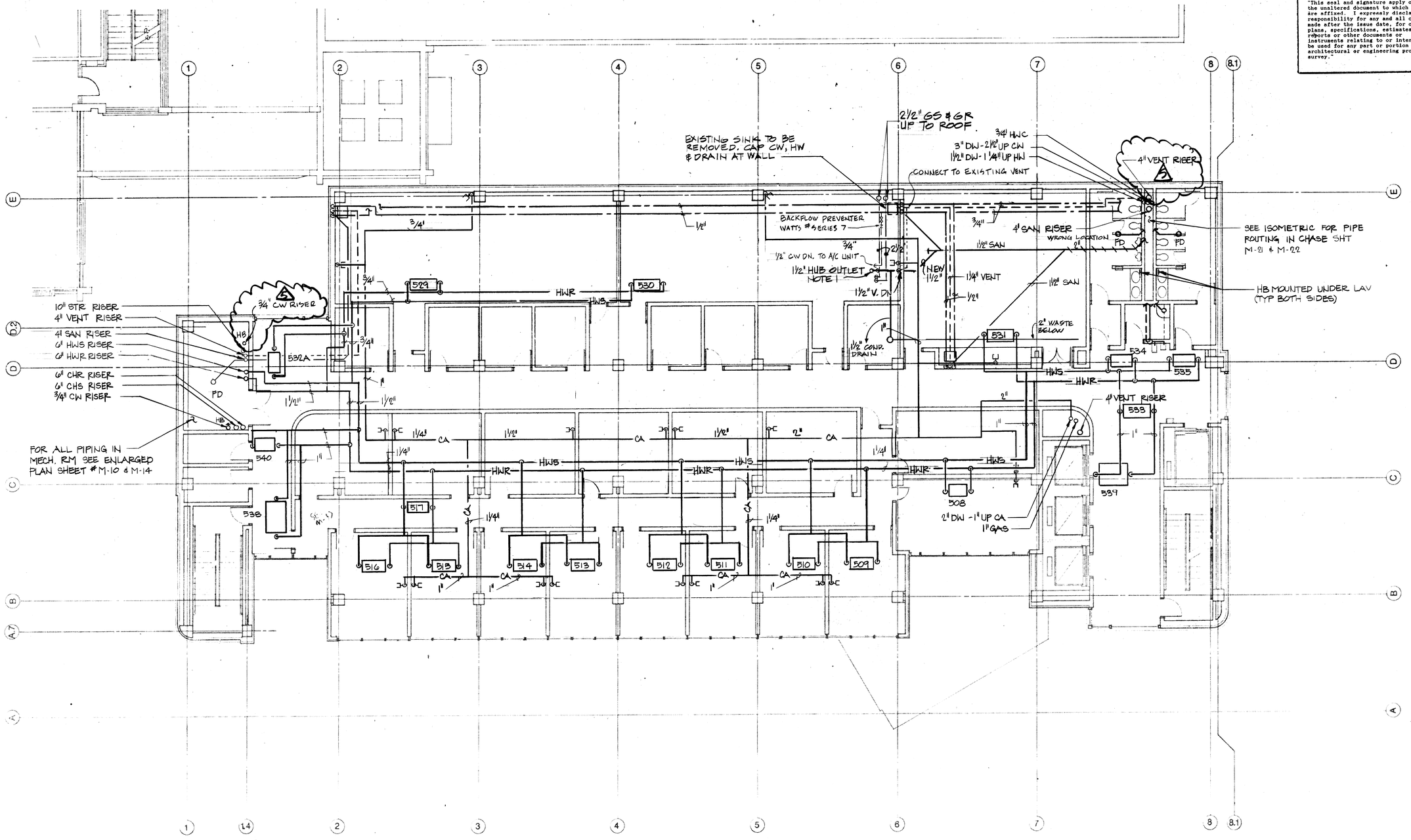
3RD FLOOR PLBG. & PIPING PLAN

Sherman-Carter-Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606-254-1351

JOB NO. 8706
DATE 10-16-87
DRAWN WE CASE
CHECKED
FILE NO. 4316

REVISIONS
3- 90% REVIEW
4- ADD COMPUTER ROOM SYSTEM
5- AS BUILT

SHEET
M•17



FOURTH FLOOR PLAN
1/8" = 1'-0"

BLDG NORTH

NOTES-
1- WORK UNDER REV. 4 INCLUDES NEW CW TO AC UNIT HUMIDIFIER, HUB OUTLET, DRAIN & VENT FOR AC CONDENSATE & REMOVAL OF EXIST. SINK. NEW MATLS. TO MATCH EXIST.

AS BUILT

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CM-018-3

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

10-19-87

4TH FLOOR
PLBG. & PIPING PLAN

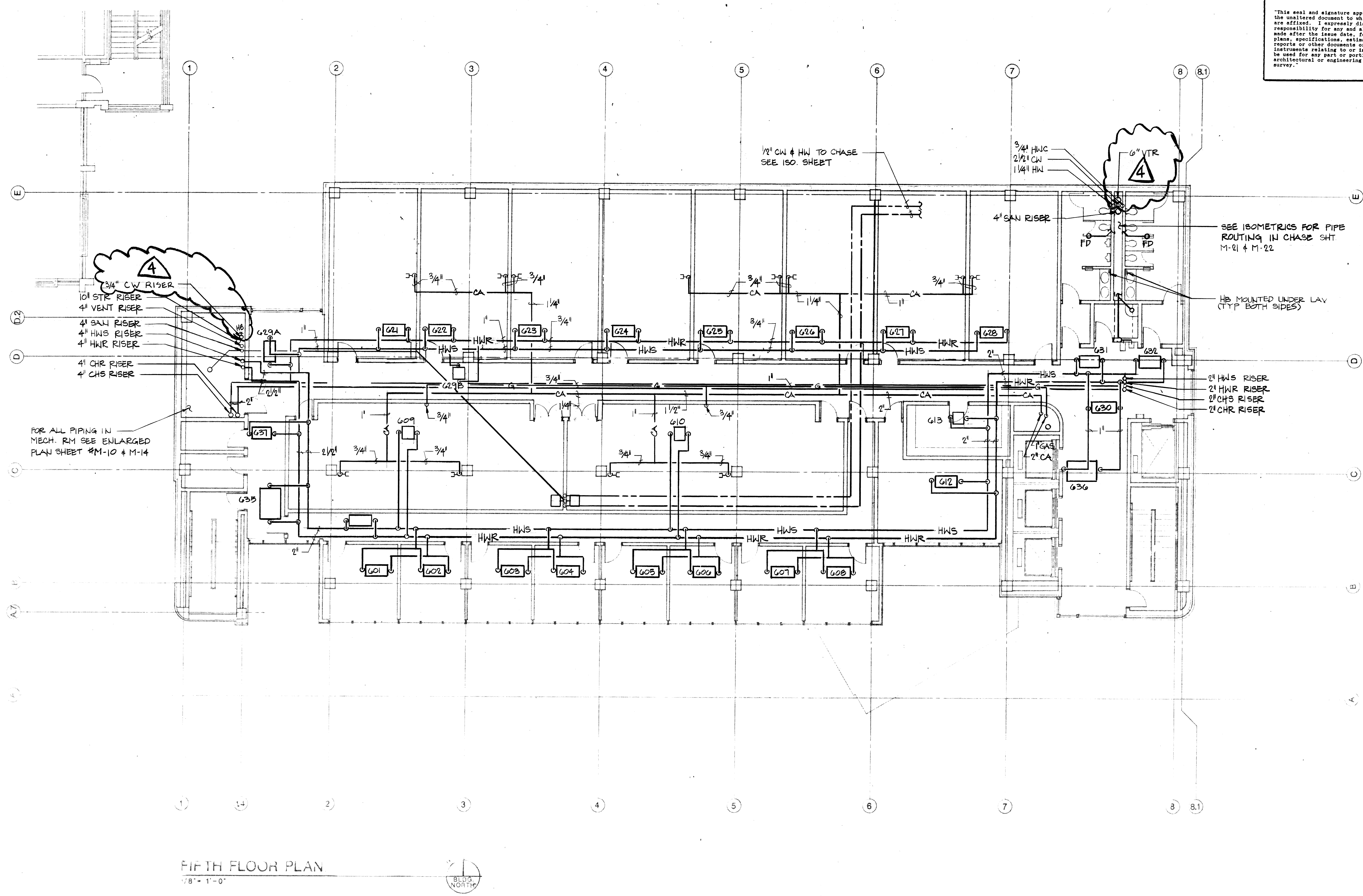
Herman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606-254-1351

JOB NO. 8706
DATE 10-16-87
DRAWN WE CASE
CHECKED
FILE NO. 431.8

REVISIONS
3- 70% REVIEW
4- ADD COMPUTER ROOM SYSTEM
5- AS BUILT

SHEET
M-18

Cab # 82 Slot C-3 Document # 004949



"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

ROBOTICS FACILITY

LEXINGTON CAMPUS

UNIVERSITY OF KENTUCKY

LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

5TH FLOOR PLBG. & PIPING PLAN

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606 254-1351

JOB NO. 8706
DATE 10-16-87
DRAWN WE CASE
CHECKED
FILE NO. 431.0

REVISIONS
3- 90% REVIEW
4- AS BUILT

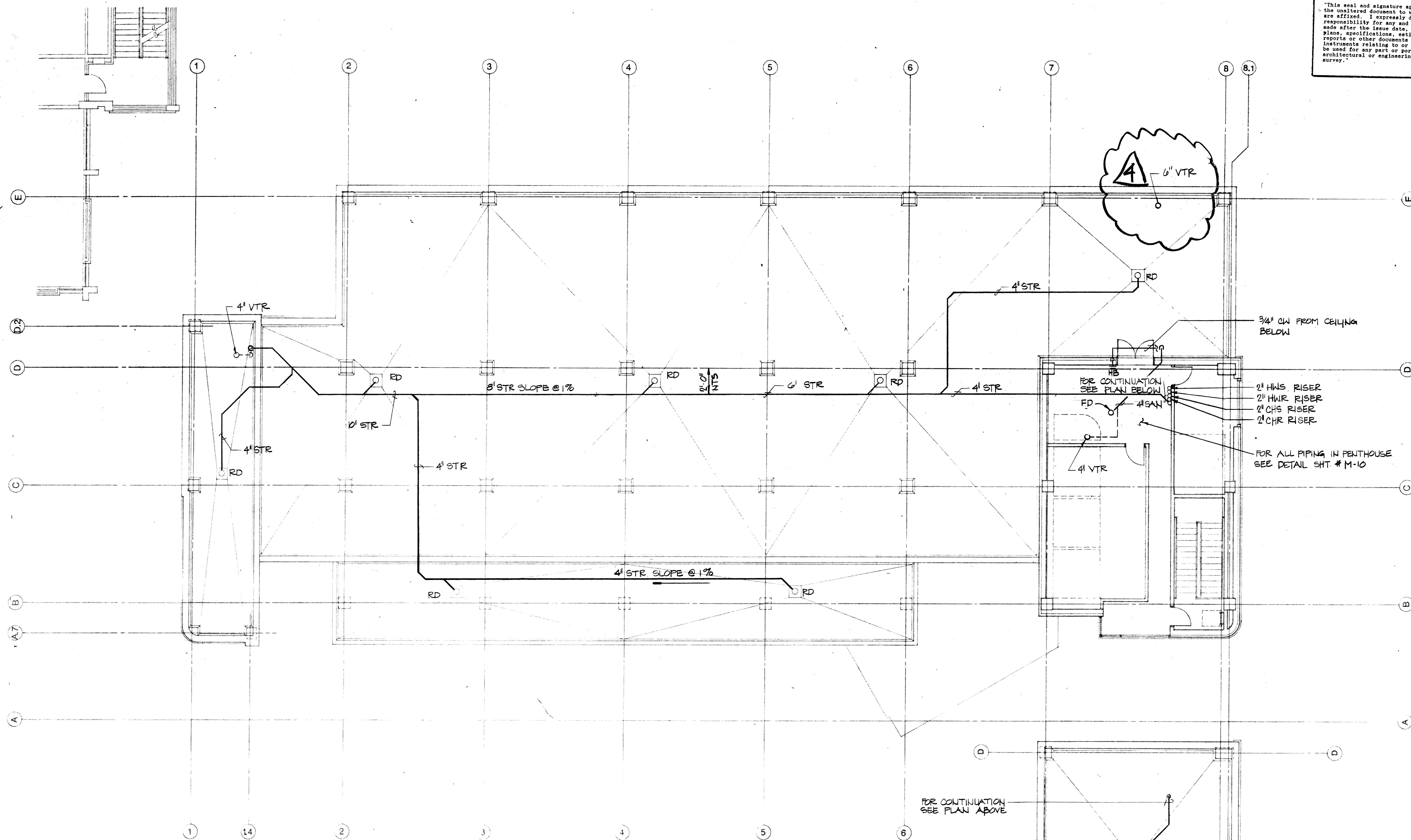
SHEET
M•19

AS BUILT

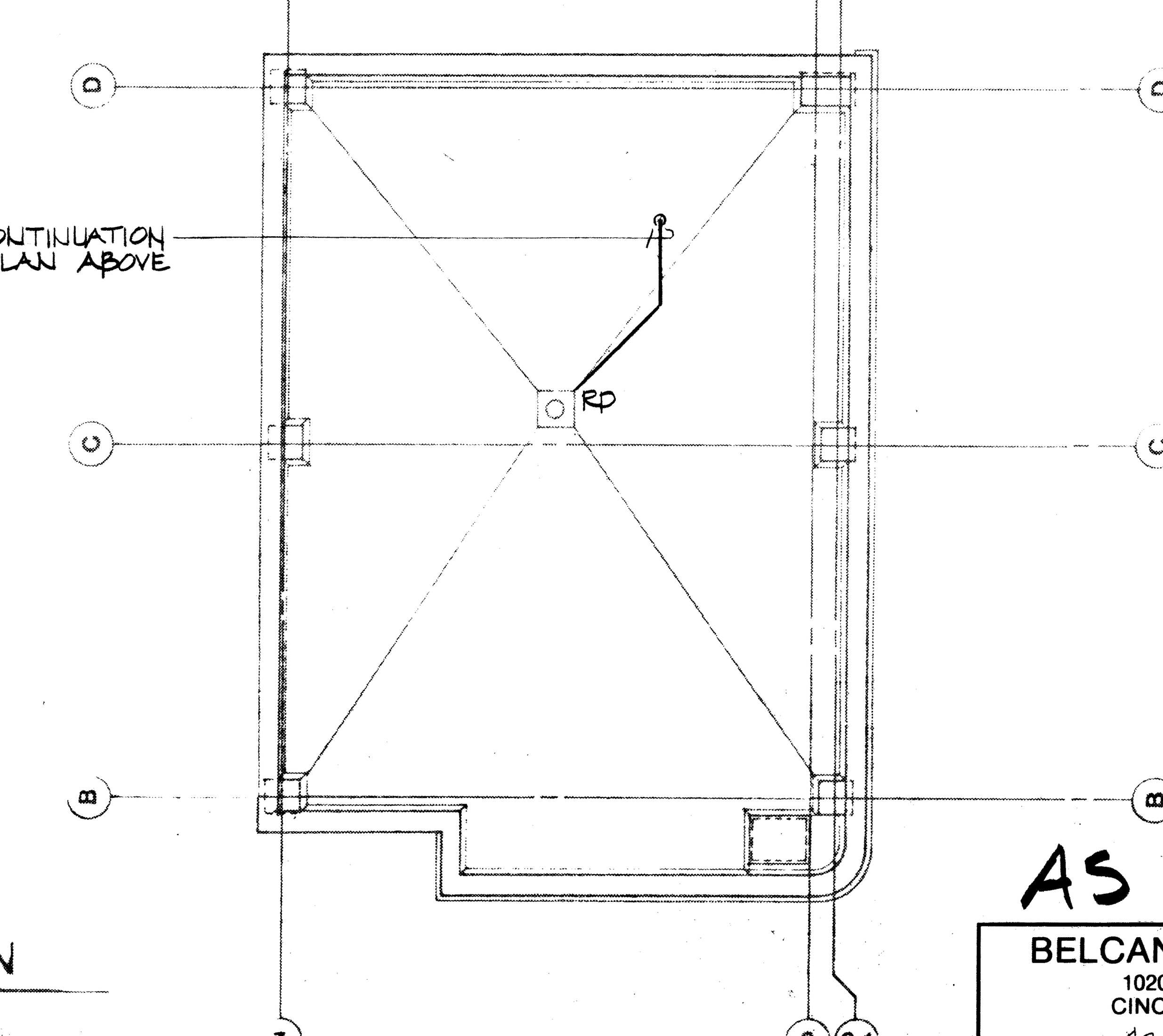
BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CM-09-3

Cab # 82 Slot C-3 Document # 004950

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."



PENTHOUSE / ROOF PLAN
1/8" = 1'-0"



PENTHOUSE ROOF PLAN
1/8" = 1'-0"

AS BUILT

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CM-020-3

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
10.19.87

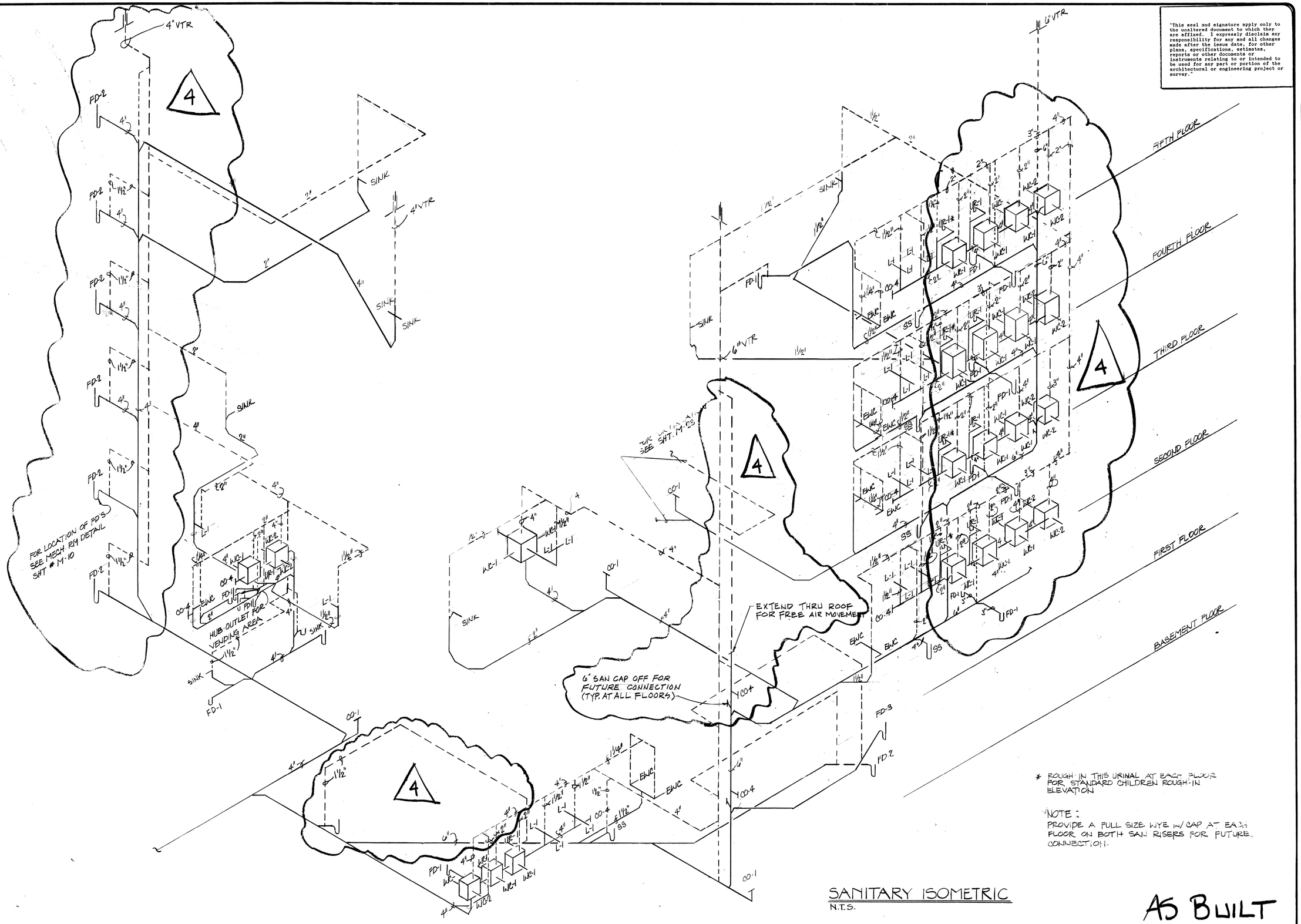
PENTHOUSE/ROOF PLBG. & PIPING PLAN

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606 254-1351

JOB NO. 8706
DATE 10-16-87
DRAWN LE CASE
CHECKED
FILE NO. 431.6

REVISIONS
3- 90% REVIEW
4- AS BUILT

SHEET
M•20



* ROUGH-IN THIS URINAL AT EACH FLOOR FOR STANDARD CHILDREN ROUGH-IN ELEVATION

NOTE:
PROVIDE A FULL SIZE WYE W/ CAP AT EACH FLOOR ON BOTH SAN RISERS FOR FUTURE CONNECTION.

SANITARY ISOMETRIC
N.T.S.

AS BUILT

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CM021-3

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved by [signature] director - design and construction division
10.19.87 date

SANITARY ISOMETRIC

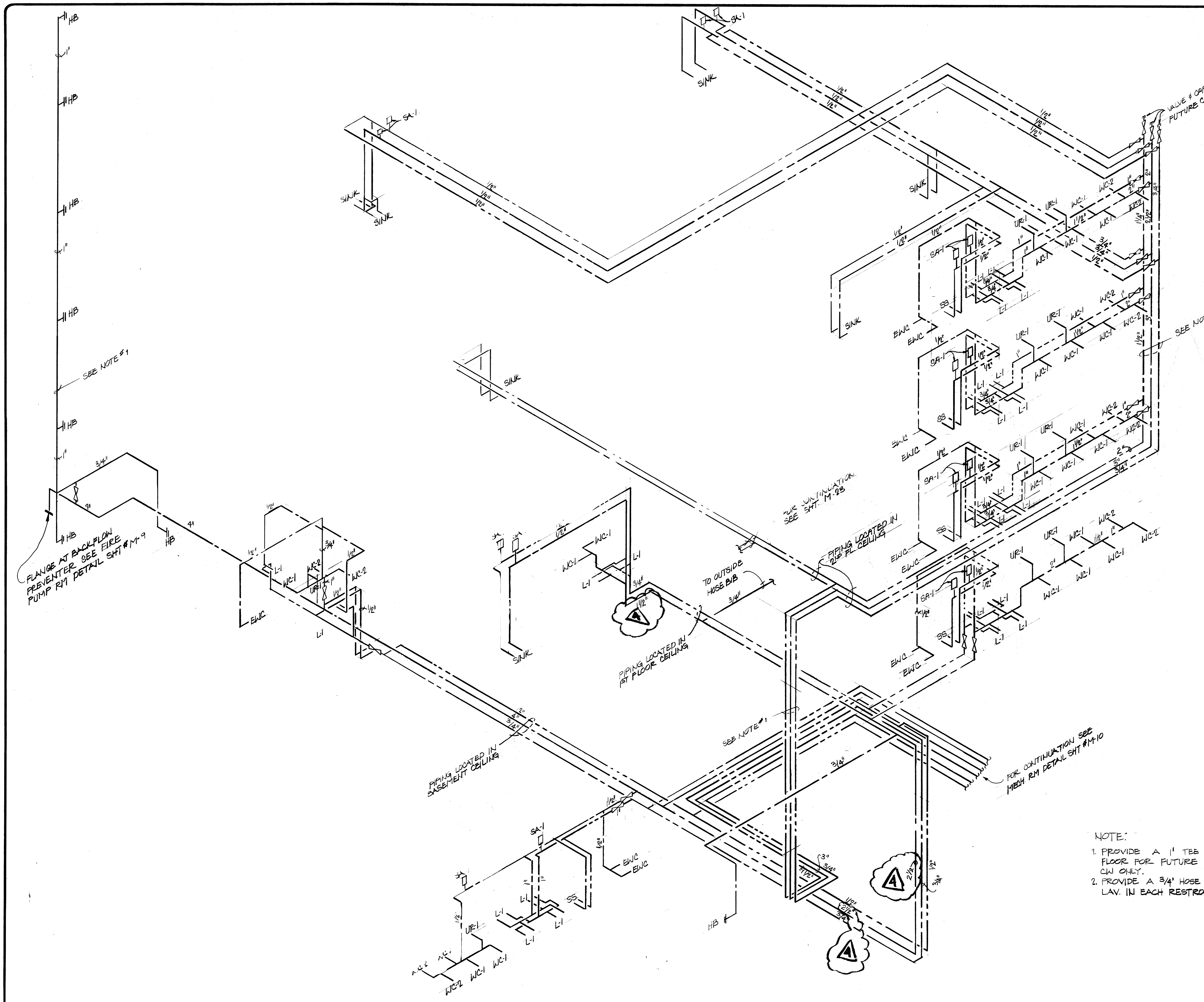
Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-1351

JOB NO. 8706
DATE 10-16-87
DRAWN KE CASE
CHECKED [signature]
UK FILE NO 4310

REVISIONS
3- 90% REVIEW
4- AS BUILT

SHEET
M•21

Cab # 82 Shel C-3 Document # 004952



NOTE:

1. PROVIDE A 1" TEE W/ VALVE & CAP AT EACH FLOOR FOR FUTURE CONNECTION HW & CW ONLY.
2. PROVIDE A 3/4" HOSE BIBB MOUNTED UNDER LAV. IN EACH RESTROOM. (14 REQ'D)

AS BUILT

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by [signature] 10-19-87
director - design and construction division — date

DOMESTIC WATER ISOMETRIC

Sherman · Carter · Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606-254-1351

JOB NO. 8706
DATE 10-16-87
DRAWN LE CASE
CHECKED [initials]
UK FILE NO. 4316

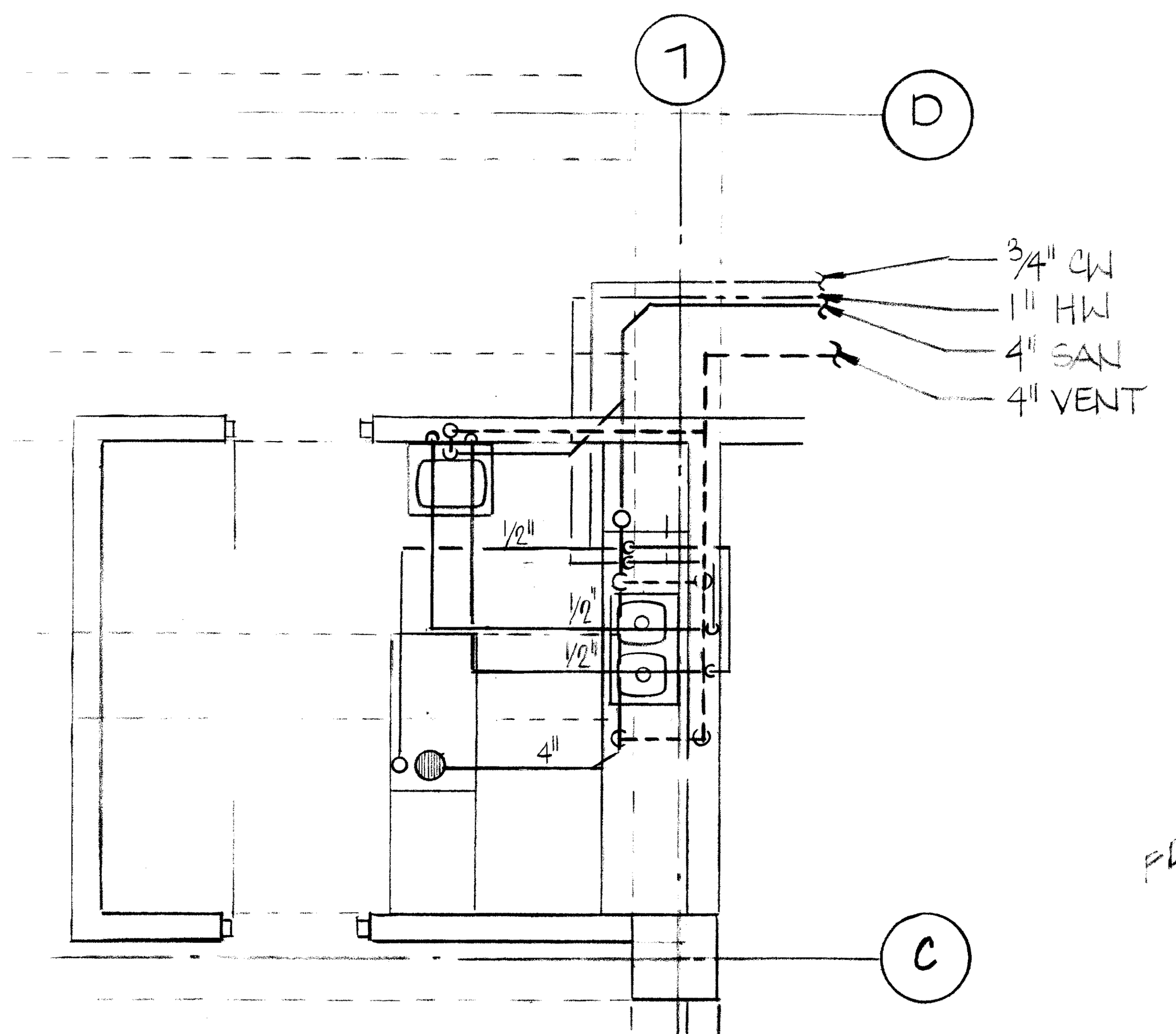
REVISIONS
3- 90% REVIEW
4- AS BUILT

SHEET
M•22

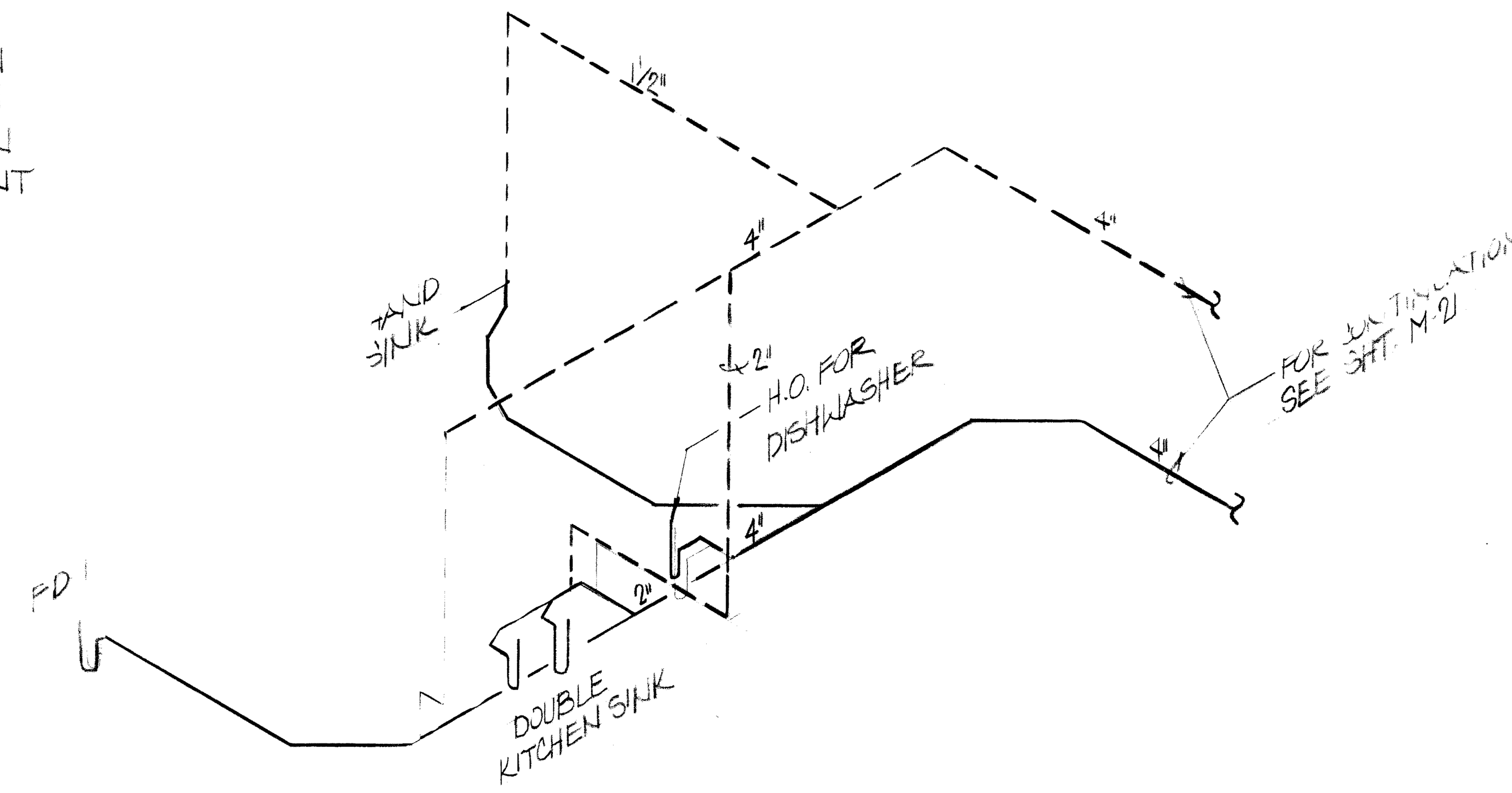
Cab #	Slot	Document #
82	C-3	004953

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CM-022-3

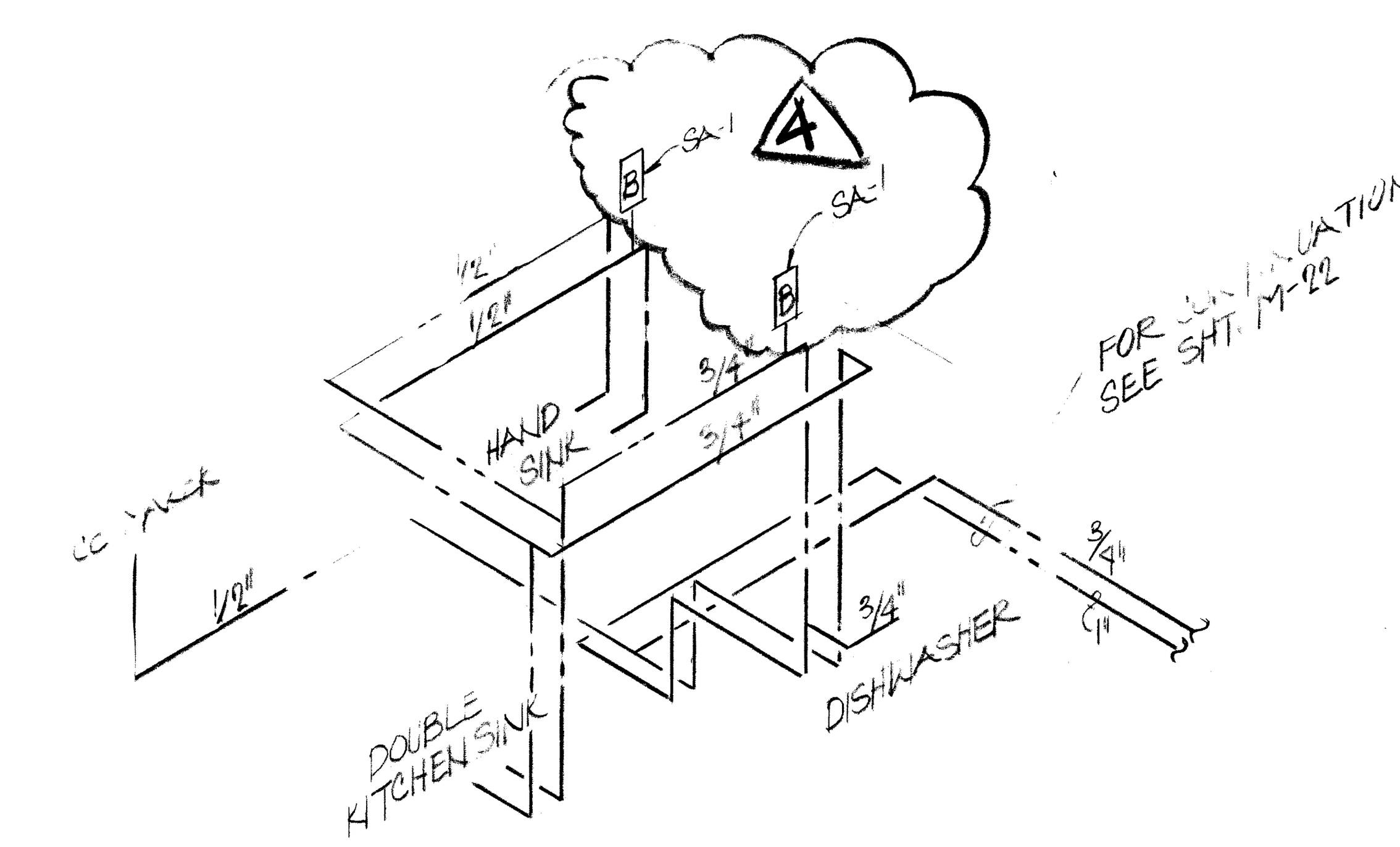
"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."



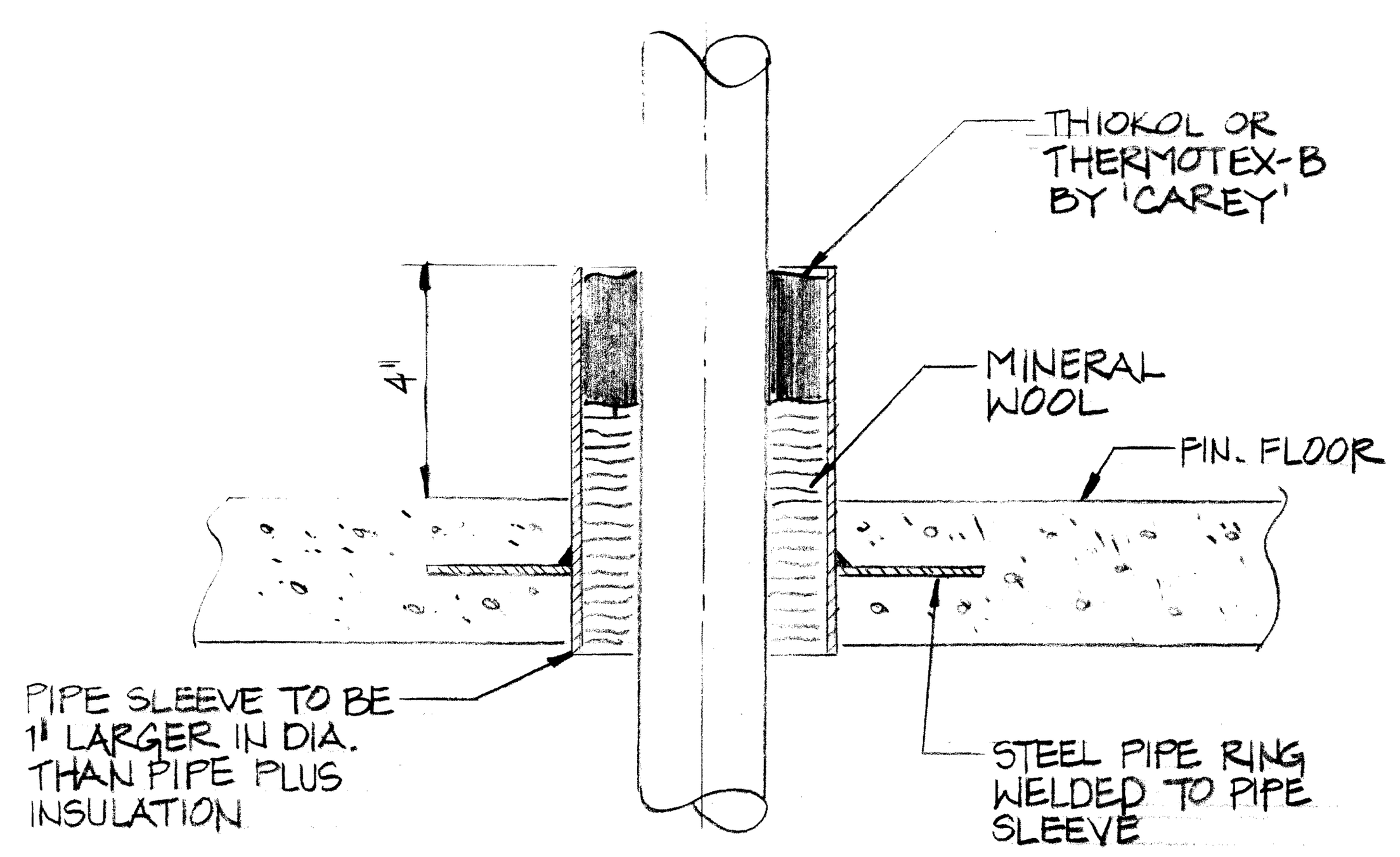
KITCHEN PLUMBING PLAN
SCALE: 1/4" = 1'-0"



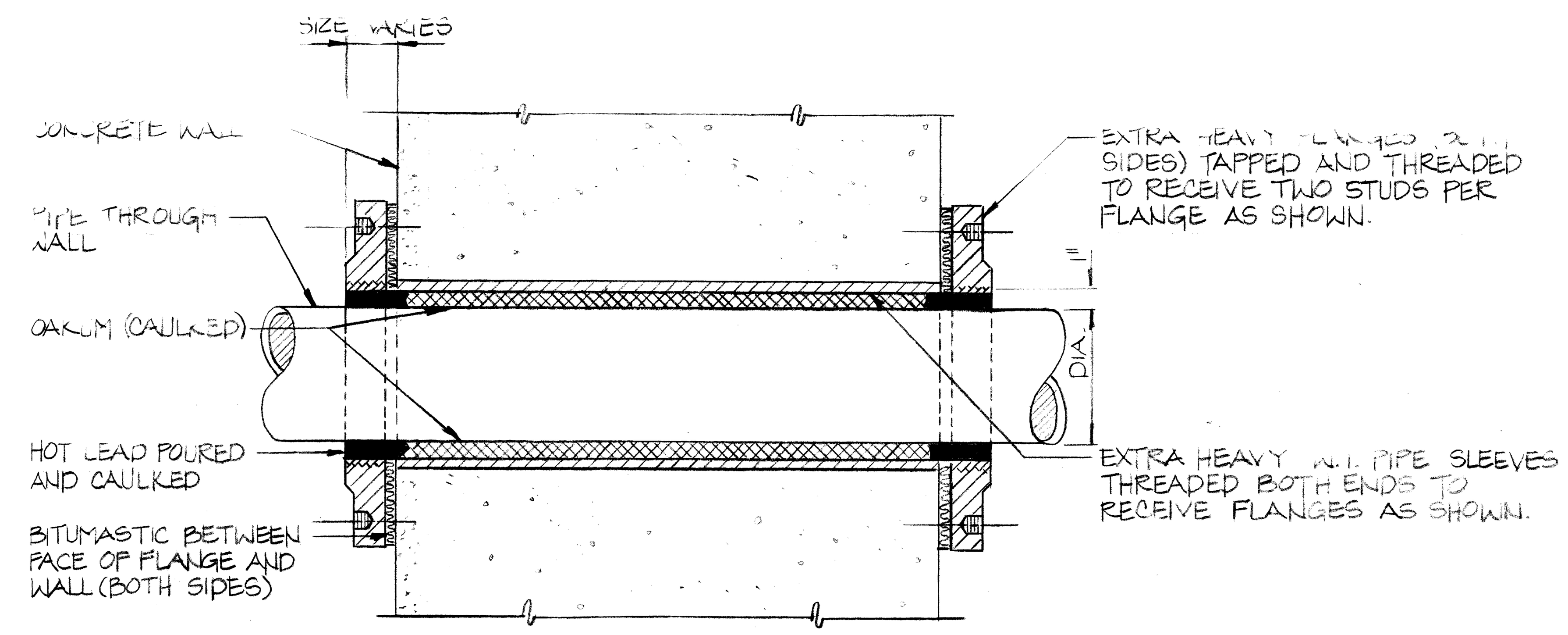
KITCHEN SANITARY ISOMETRIC
NO SCALE



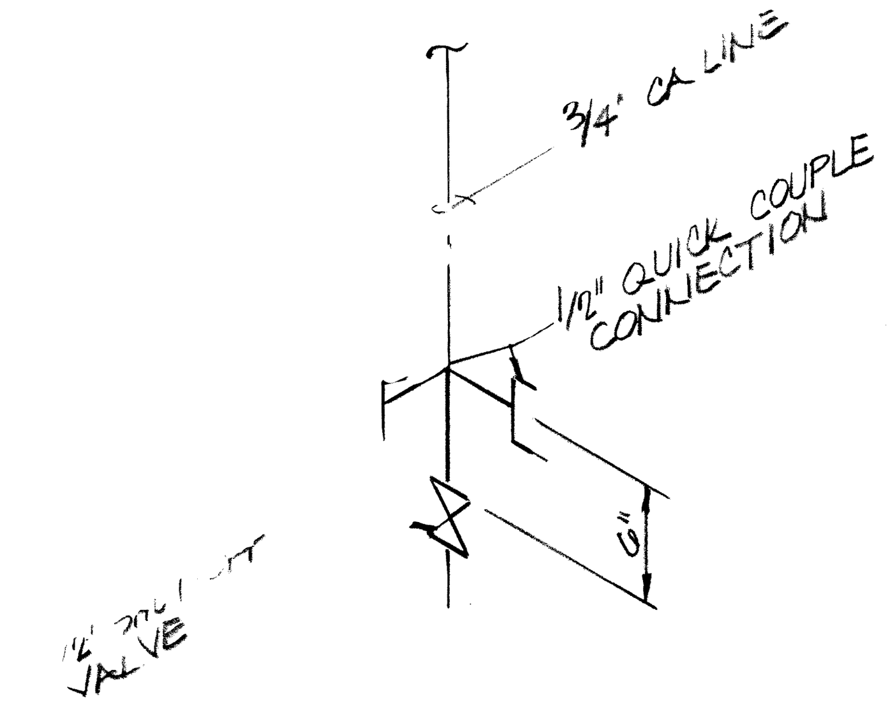
KITCHEN DOMESTIC WATER ISOMETRIC
NO SCALE



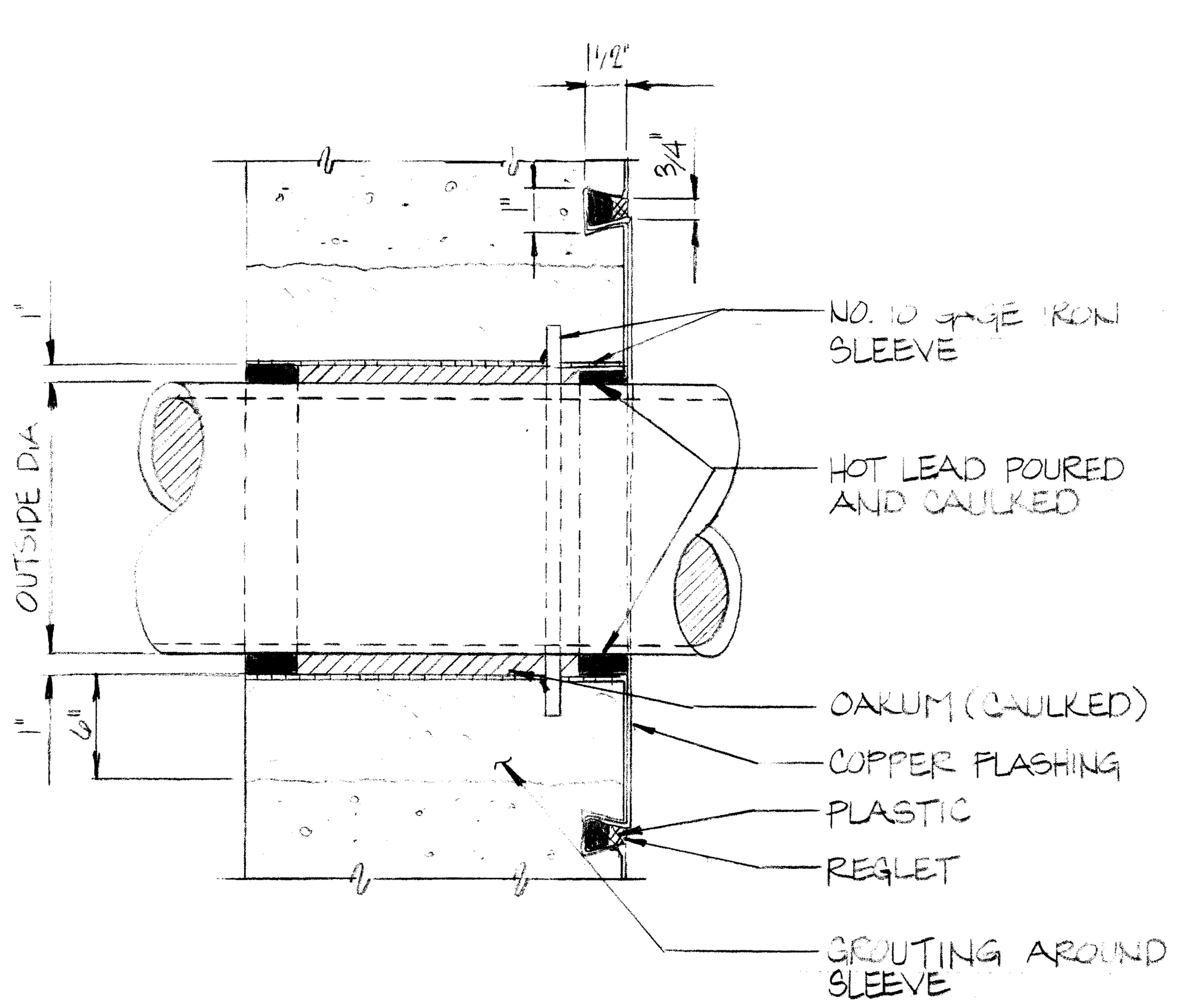
SLEEVE THRU MECH. ROOM FLOORS
NO SCALE



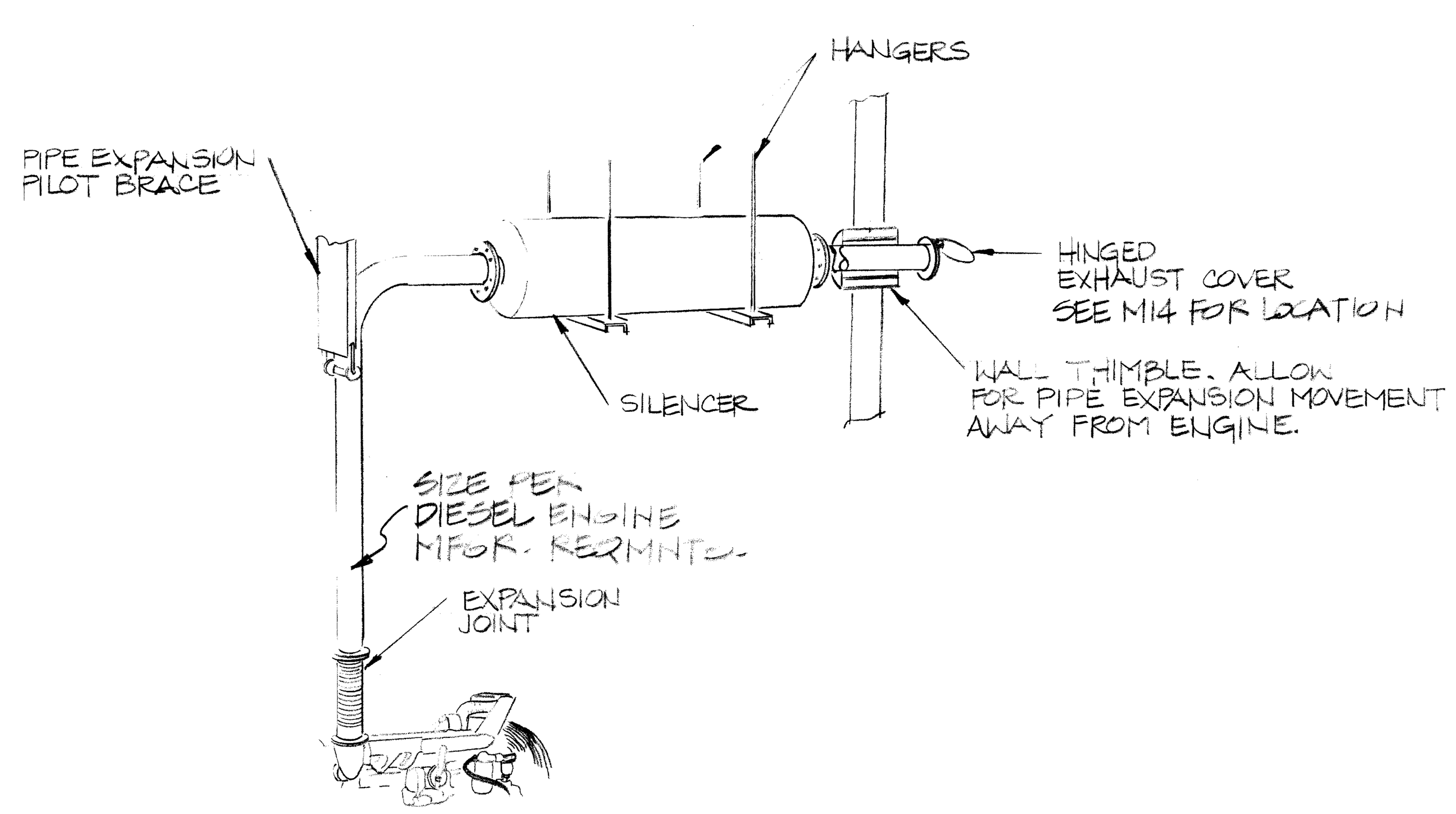
SLEEVE DETAIL FOR PIPES 8" DIA & SMALLER
NO SCALE
* STOP PIPE INSULATION AT EACH SIDE OF WALL & FINISH EDGES WATERTIGHT.



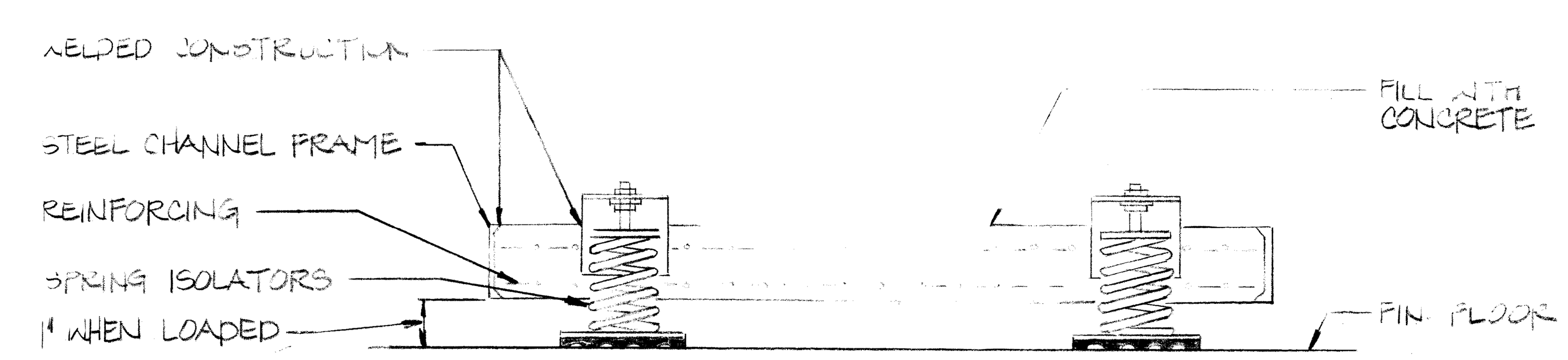
TYP. COMPRESSED AIR DROP
NO SCALE



SLEEVE DETAIL FOR PIPE 8" & OVER
NO SCALE



EMERGENCY GENERATOR EXHAUST PIPING
NO SCALE



INERTIA BASE - RF 1
NO SCALE

AS BUILT

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CM-023-3

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved by: director · design and construction division
10·19·87

DETAILS

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-1351

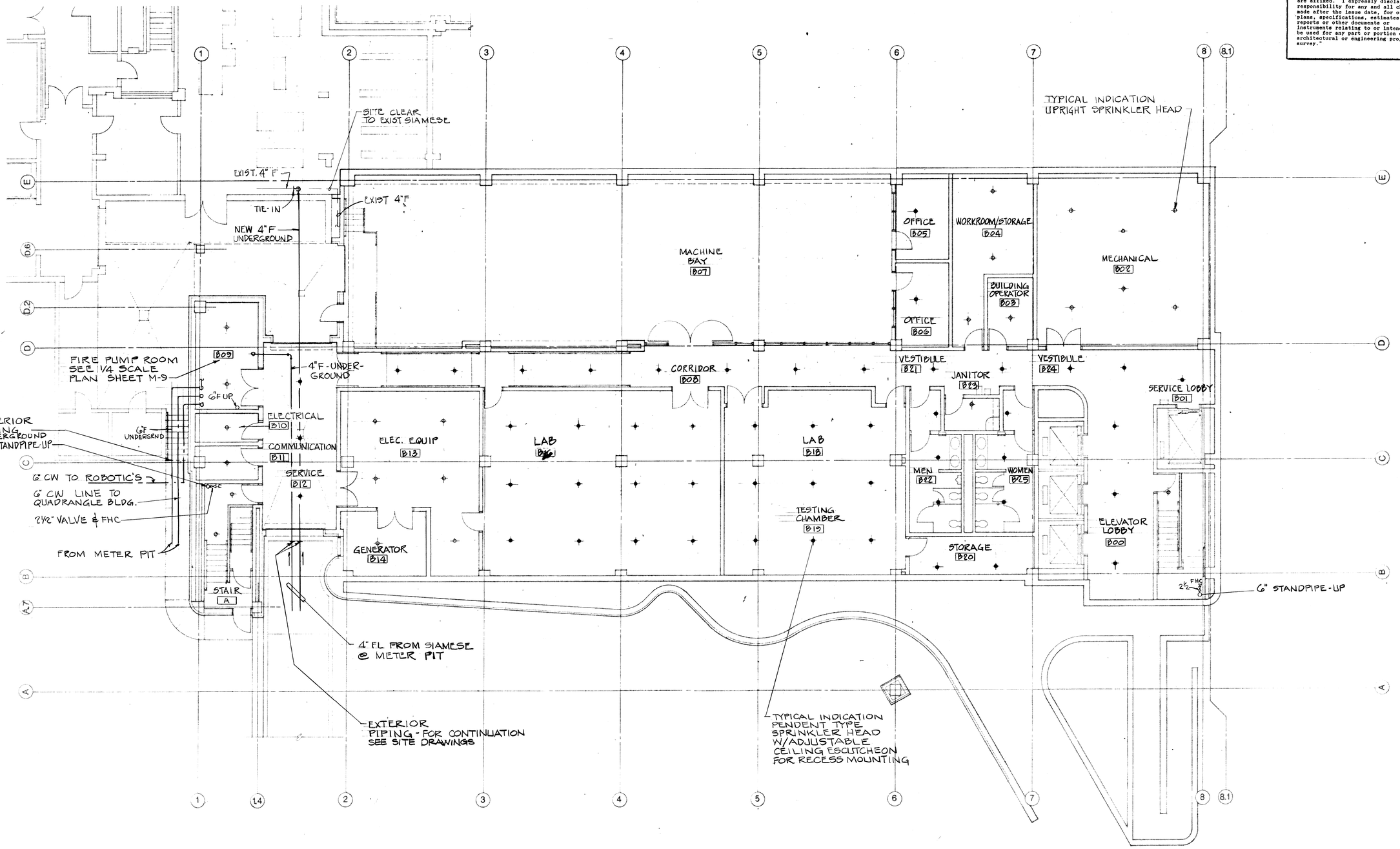
JOB NO. 8706
DATE 10-16-87
DRAWN W. CASS
CHECKED
UK FILE NO. 431.60

REVISIONS
3 - 90% REVIEW
4 - AS BUILT

SHEET
M•23

Cab # 82 Slot C3 Document # 004954

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."



BASEMENT FLOOR PLAN

1/8" = 1'-0"

BLDG. NORTH

AS BUILT

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-6M-024-3

ROBOTICS FACILITY

LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by [signature] 10.19.87
date

BASEMENT FIRE PROTECTION

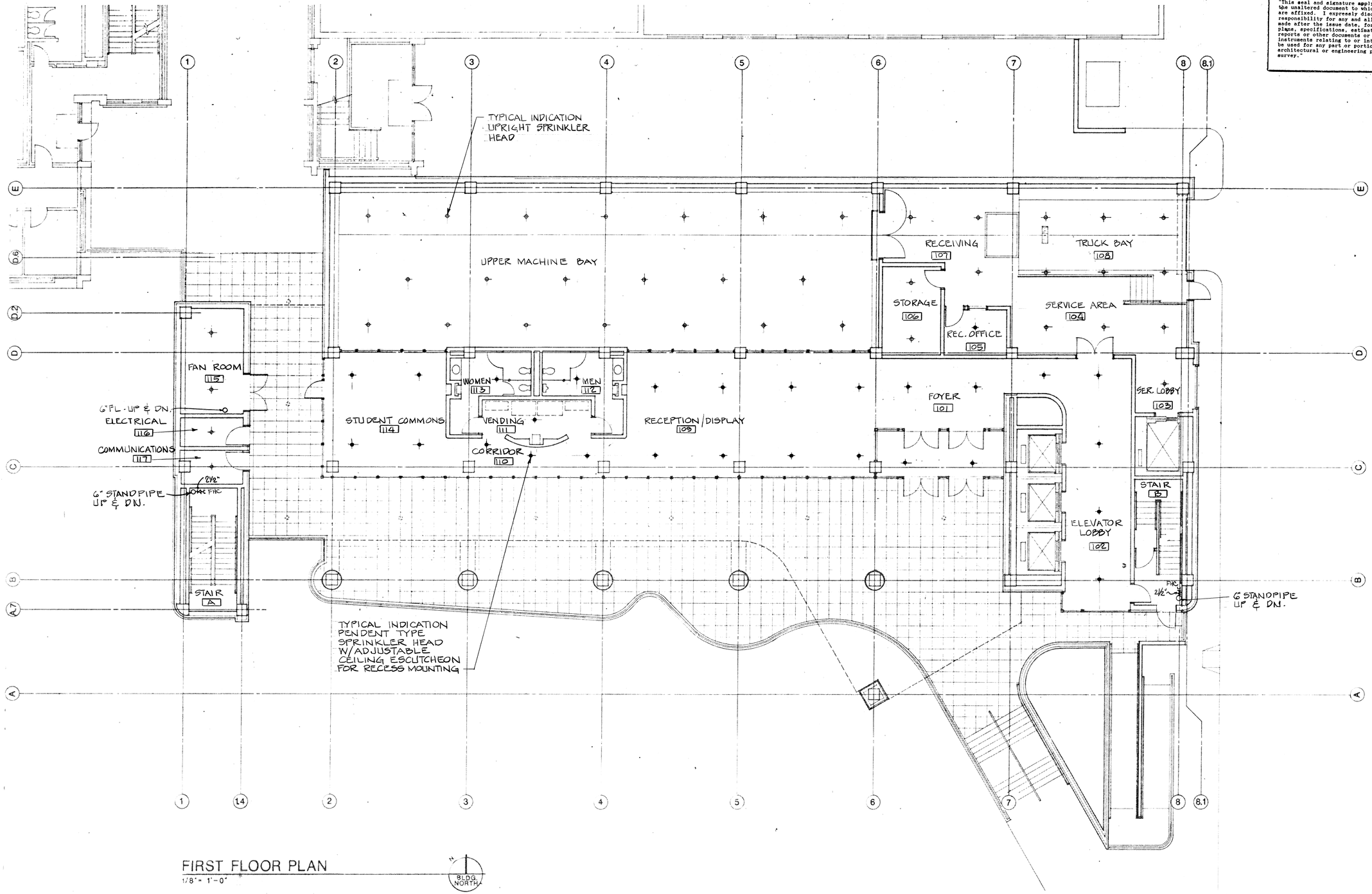
Sherman Carter Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606-254-1351

JOB NO. 8706
DATE 10-16-87
DRAWN S. THOMPSON
CHECKED [signature]
FILE NO. 431.0

REVISIONS
3- 90% REVIEW

SHEET
M-24

Cab # Slot Document # 004955



FIRST FLOOR PLAN
1/8" = 1'-0"

BLDG. NORTH

AS BUILT

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

COMMONWEALTH OF KENTUCKY — ROBERT L. SMITH — 13,904 — REGISTERED ENGINEER — PROFESSIONAL ENGINEER

ROBOTICS FACILITY

LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

10.19.87

1 ST FLOOR FIRE PROTECTION

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606 254-1351

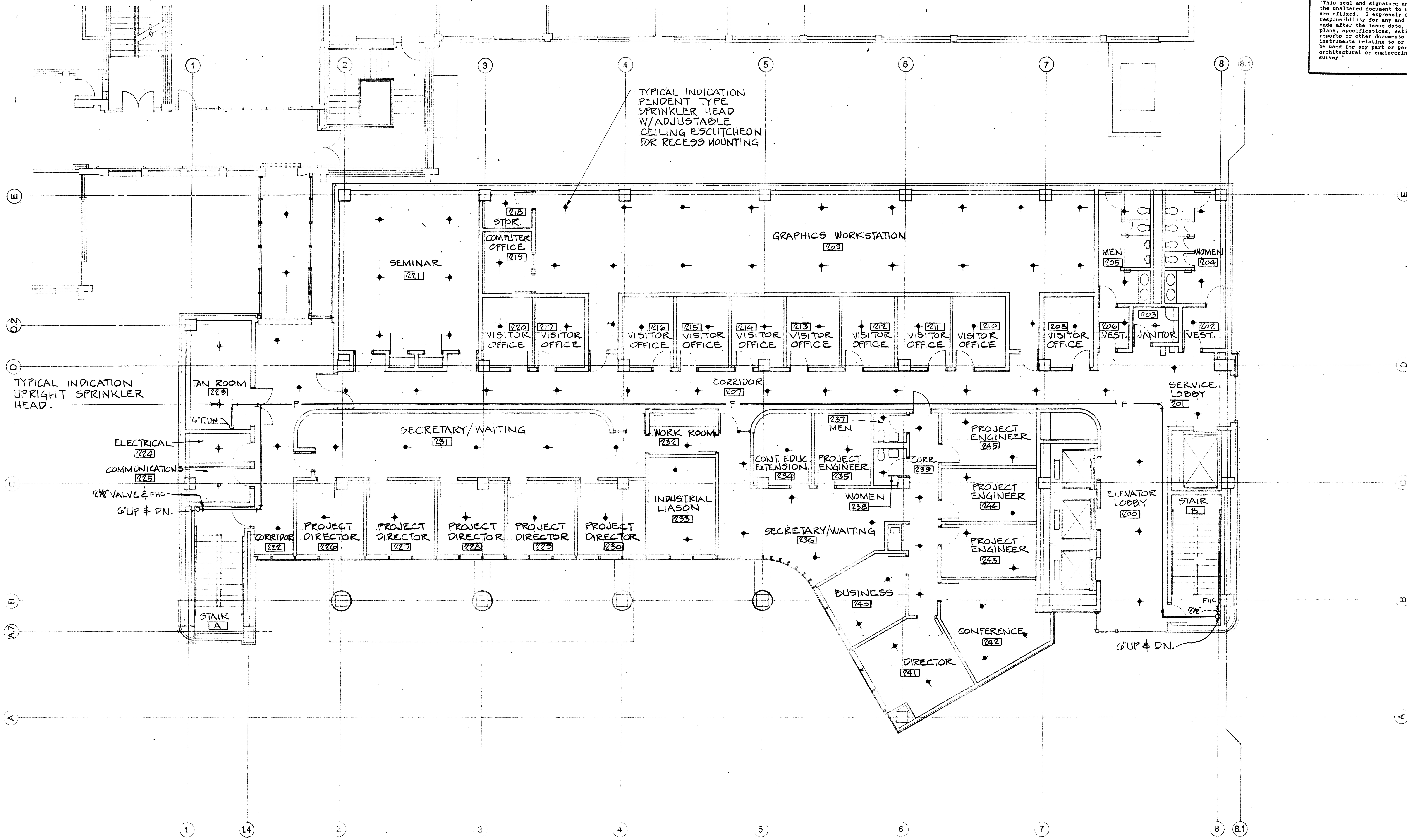
JOB NO. 8706
DATE 10-16-87
DRAWN S. THOMPSON
CHECKED
FILE NO. 4361.2

REVISIONS
3- 90% REVIEW

SHEET
M-25

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CM-025-3

Cab # 82 Slot C-3 Document # 061956



SECOND FLOOR PLAN
1/8" = 1'-0"

BLDG. NORTH

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

STATE OF KENTUCKY
ROBERT L. SMITH
REGISTERED PROFESSIONAL ENGINEER

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved by [signature]
director · design and construction division
date 10.19.87

2 ND FLOOR FIRE PROTECTION

Sherman · Carter · Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606-254-1351

JOB NO. 8706
DATE 10-16-87
DRAWN S. THOMPSON
CHECKED [signature]
FILE NO. 4316

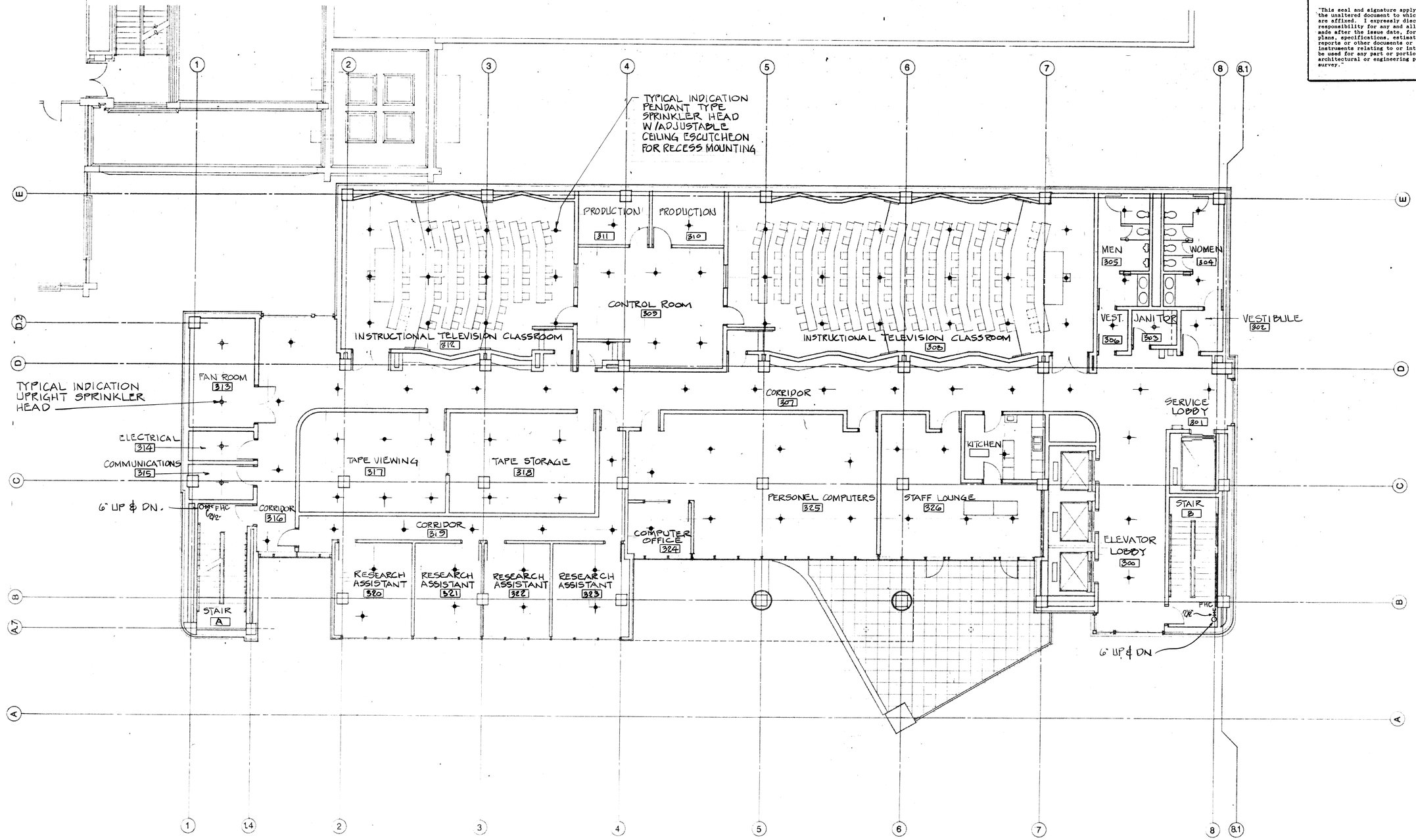
REVISIONS
3- 90% REVIEW

AS BUILT

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CM-026-3

SHEET
M•26

Cab #	Slot	Document #
82	C-3	004957



THIRD FLOOR PLAN

1/8" = 1'-0"

BLDG. NORTH

AS BUILT

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER 4361-CM-027-3

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

STATE OF KENTUCKY REGISTERED PROFESSIONAL ENGINEER ROBERT L. SMITH 13904

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

10.19.87 date

approved by

3 RD FLOOR FIRE PROTECTION

Herman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606 254 1351

JOB NO. 8706
DATE 10-16-87
DRAWN S. THOMPSON
CHECKED
FILE NO. 4B1.0

REVISIONS
3-90% REVIEW

SHEET
M-27

Cab # Slot Document #
82 C-3 004958

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project, or survey."

COMMONWEALTH OF KENTUCKY — ROBERT SMITH — 13534 — REGISTERED PROFESSIONAL ENGINEER — LICENSED

TYPICAL INDICATION, PENDANT TYPE SPRINKLER HEAD W/ ADJUSTABLE CEILING ESCUTCHEON FOR RECESS MOUNTING

TYPICAL INDICATION UPRIGHT SPRINKLER HEAD

6" UP & DN.

2½" FHC

LAB 416 · LAB 412 · LAB 408 · MEN 405 · WOMEN 404 · VESTIBULE 406 · JANITOR 403 · VESTIBULE 402

VISITOR 419 · VISITOR 418 · VISITOR 417 · VISITOR 415 · FOYER 414 · VISITOR 413 · VISITOR 411 · VISITOR 410 · VISITOR 409

FAN ROOM 420 · CORRIDOR 407 · SERVICE LOBBY 401

ELECTRICAL 421 · COMMUNICATIONS 422 · CORRIDOR 423

LAB 424 · LAB 426 · LAB 428 · LAB 432 · LAB 435 · LAB 436 · LAB 440 · LAB 439

CORRIDOR 430

LAB 425 · LAB 427 · LAB 429 · LAB 431 · LAB 433 · LAB 434 · LAB 437 · LAB 438

STAIR A · STAIR B · ELEVATOR LOBBY 400

1 · 1.4 · 2 · 3 · 4 · 5 · 6 · 7 · 8 · 8.1 · A · A.7 · B · C · D · D.2 · E

FOURTH FLOOR PLAN

1/8" = 1'-0"

BLDG. NORTH

AS BUILT

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CM-028-3

ROBOTICS FACILITY

LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

10-19-87

4TH FLOOR FIRE PROTECTION

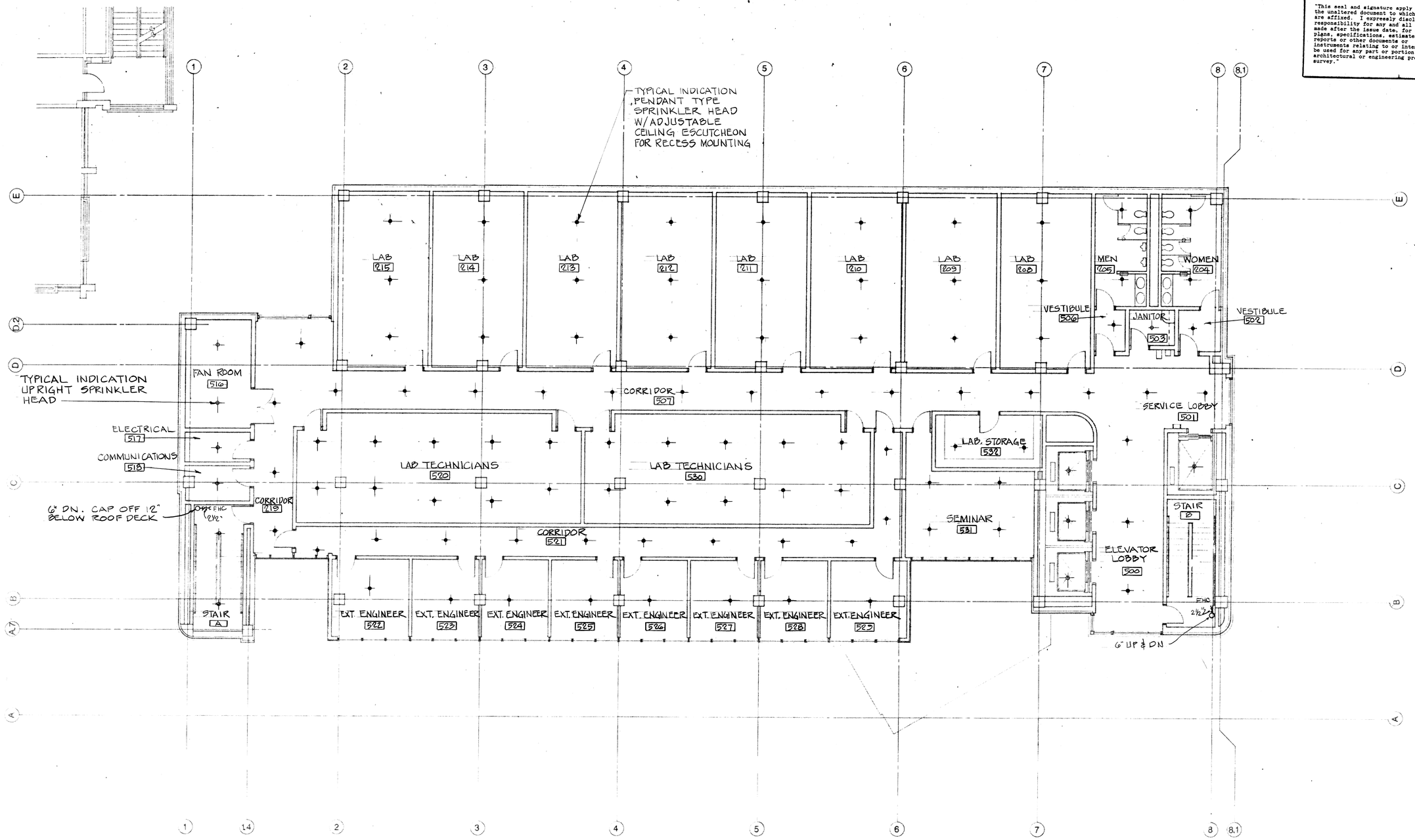
Herman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606-254-1351

JOB NO. 8706
DATE 10-16-87
DRAWN S. THOMPSON
CHECKED
FILE NO. 431.8

REVISIONS
3- 90% REVIEW

SHEET
M-28

Cab # 82 · Slot C-3 · Document # 004959



FIFTH FLOOR PLAN

1/8" = 1'-0"

BLDG. NORTH

AS BUILT

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CM-029-3

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

COMMONWEALTH OF KENTUCKY — ROBERT L. [illegible] — REGISTERED ENGINEER

ROBOTICS FACILITY

LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

10-19-87
date

5TH FLOOR FIRE PROTECTION

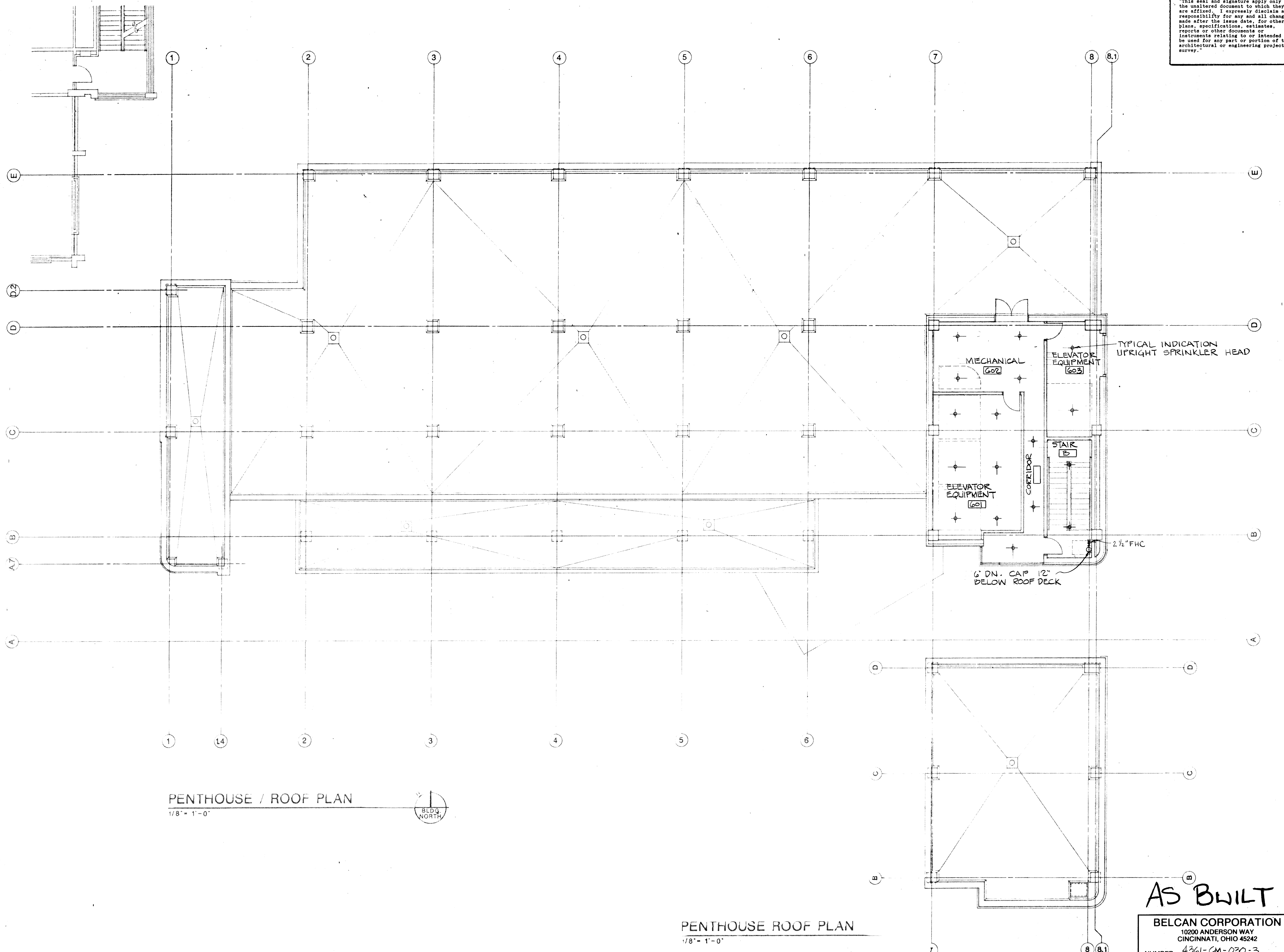
Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606 254-1351

JOB NO. 8706
DATE 10-16-87
DRAWN S. THOMPSON
CHECKED
FILE NO. 431.02

REVISIONS
3-90% REVIEW

SHEET
M•29

Cab # 82 Slot C-3 Document # 004960



PENTHOUSE / ROOF PLAN
1/8" = 1'-0"

PENTHOUSE ROOF PLAN
1/8" = 1'-0"

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved 10-19-87
director design and construction division

PENTHOUSE/ROOF
FIRE PROTECTION

Sherman-Carter-Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1010 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606 254-1351

JOB NO. 8706
DATE 10-16-87
DRAWN S. THOMPSON
CHECKED
FILE NO. 4318

REVISIONS
3-90% REVIEW

AS BUILT

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CM-030-3

SHEET
M•30

Cab # 82 Slot C-3 Document # 004961

VARIABLE AIR VOLUME BOX SCHEDULE

BOX DESIG.	TRANE MODEL NO./SIZE	MAX. CFM	MIN. CFM	MAX. UNIT PRES.DROP	MBH HT'G REQ'D
101	VCWC/2000	1200	400	.22	26
103	VCWC/1200	800	280	.20	11
104	VCWC/400	250	90	.16	8
105	VCCC/200	80	0	.07	–
106A	VCWC/1200	600	600	.11	40
106B	VCCC/400	300	0	.24	–
107	VCWC/800	450	320	.20	25
108	VCWC/200	110	110	.13	4
109	VCWC/200	110	110	.13	4
112	VCWC/2000	1400	350	.28	30
113	VCWC/2000	1400	350	.28	21
114	VCWC/400	250	250	.16	7
115	VCWC/800	450	150	.24	–
117	VCWC/400	250	250	.16	9
121	VCWC/2000	110	40	.03	3
122	VCCC/200	110	0	.03	–
140	VCWC/3000	3040	1500	.40	73
201	VCWC/2000	1860	920	.49	47
202	VCCC/200	160	0	.07	–
203	VCWC/2000	1260	440	.23	23
204	VCWC/400	210	80	.12	10
205	VCWC/1200	980	680	.31	87
206	VCWC/800	550	380	.27	22
207	VCCC/200	80	0	.07	–
208	VCCC/200	50	0	.03	–
209	VCCC/200	50	0	.03	–
210	VCWC/3000	2800	350	.34	50
211	VCWC/3000	2800	350	.34	42
212	VCWC/200	250	250	.16	7
213	VCCC/400	140	0	.06	–
301	VCWC/800	440	150	.18	10
302	VCWC/400	180	70	.09	5
303	VCWC/400	160	70	.07	5
304	VCWC/400	160	70	.07	5
305	VCWC/400	160	70	.07	5
306	VCWC/400	170	70	.08	5
307	VCCC/200	100	0	.11	–
308	VCCC/200	130	0	.18	–
309	VCCC/200	120	0	.15	–
310	VCCC/200	130	0	.18	–
311	VCWC/400	260	100	.18	–
312	VCCC/200	100	0	.11	–
313	VCWC/400	250	90	.16	8
314	VCWC/400	270	110	.19	5
315	VCCC/800	480	0	.27	–

VARIABLE AIR VOLUME BOX SCHEDULE

BOX DESIG.	TRANE MODEL NO./SIZE	MAX. CFM	MIN. CFM	MAX. UNIT PRES.DROP	MBH HT'G REQ'D
429	VCWC/400	180	50	.20	4
432	VCWC/4000	4000	350	.69	57
433	VCWC/4000	4000	350	.69	57
434	VCWC/400	250	250	.16	7
501	VCCC/400	180	0	.11	–
502	VCCC/400	180	0	.11	–
503	VCCC/400	180	0	.11	–
504	VCCC/400	180	0	.11	–
505	VCCC/400	180	0	.11	–
506	VCCC/400	180	0	.11	–
507	VCCC/400	220	0	.16	–
508	VCWC/800	440	140	.18	10
509	VCWC/400	330	100	.29	5
510	VCWC/400	300	80	.24	5
511	VCWC/400	300	80	.25	5
512	VCWC/400	300	80	.24	5
513	VCWC/400	320	50	.27	5
514	VCWC/400	320	50	.27	5
515	VCWC/400	320	50	.27	5
516	VCWC/400	360	70	.34	5
517	VCWC/800	450	150	.18	4
521	VCCC/200	100	0	.11	–
522	VCCC/200	80	0	.07	–
523	VCCC/200	80	0	.07	–
524	VCCC/200	80	0	.07	–
525	VCCC/200	80	0	.07	–
526	VCCC/200	80	0	.07	–
527	VCCC/200	80	0	.07	–
528	VCCC/200	80	0	.07	–
529	VCWC/1200	750	250	.18	2
530	VCWC/1200	750	250	.18	10
531	VCWC/1200	680	230	.15	10
532A	VCWC/1200	600	320	.11	14
532B	VCCC/400	300	0	.30	–
533	VCWC/1200	700	470	.16	15
534	VCWC/200	110	20	.03	4
535	VCWC/400	180	50	.09	7
538	VCWC/4000	3100	350	.41	47
539	VCWC/4000	250	350	.41	47
540	VCWC/400	250	250	.16	7
601	VCWV/400	280	90	.21	6
602	VCWC/400	250	70	.16	6
603	VCWC/400	250	70	.16	6
604	VCWC/400	250	70	.16	6
605	VCWC/400	250	70	.16	6

PACKAGE HOT WATER HEATING SYSTEM SCHEDULE

UNIT	
DESIGNATION	PHWHS-1
SHELL	
POUNDS OF STEAM/HOUR	7936
STEAM PRESSURE (PSIG)	10
TUBE	
GPM	750
E.W.T./L.W.T. (F)	180/200
MAX. WATER PRESSURE DROP (FT.WTR.)	10
PUMPS	
MODEL NO.	2-1510-53G
GPM/TOTAL HEAT (FT.WTR.)	375 EA/140
HP/RPM	25 EA/1750
VOLTAGE/PHASE/HERTZ	208/3/60
AIR SERARATOR W/AIRTROL FITTING	
GPM/MAX. LOSS (FT.WTR.)	375/6
MODEL NO.	[illegible]-6
TRIPLE DUTY VALVE	[illegible]00
MODEL NO.	[illegible]6
EXPANSION TANK	
CAPACITY (GALLONS)	120
OVERALL SIZE (IN.)	75x24 DIA.
MAX. OPERATING PRESSURE (PSIG)	125
MANUFACTURER'S DATA	
MANUFACTURER	B & G
MODEL NUMBER	[illegible]TP2-850

REMARKS: UNIT [illegible] PREPIPED, PREWIRED & PRETESTED W/RELIEF VALVE, REDUCING VALVE, TEMP. AND PRES. GAUGES, CHANNEL & ANGLE IRON FRAME, MOTOR STA[illegible], DUAL STEAM CONTROL VALVES AND DUAL CONDENSATE TRAPS.

HOT WATER UNIT HEATER SCHEDULE

GENERAL			
UNIT DESIGNATION	UH-1	UH-2	UH-3 TO [illegible]
HEATER			
TOTAL HEATING (MBH)	[illegible]	19	6.3
CFM	2381	[illegible]	[illegible]
HP/FAN RPM	.17/100	.03/135[illegible]	.04/1030
E.A.T./L.A.T. (F)	60/105	60/93	60/81
E.W.T./L.W.T. (F)	200/180	200/180	200/180
MOUNTING HEIGHT (FT.)	12	10	12
DISCHARGE ARRANGEMENT	HORIZ.	HORIZ.	HORIZ.
ELECTRICAL			
VOLTAGE/PHASE/HERTZ	120/1/60	120/1/60	120/1/60
MANUFACTURER'S DATA			
MANUFACTURER	TRANE	TRANE	TRANE
MODEL NUMBER	168-S	38-S	18-S

REMARKS: COMPLETE WITH WALL MOUNTING BRACKET AND LOUVER FIN DIFFUSER.

PUMP SCHEDULE

UNIT			
DESIGNATION	DWP-1	DHWP-1	DHWRP-1
PUMP			
GPM	150	50	[illegible]
TOTAL HEAD (FT.WTR.)	80	80	35
HP/PUMP RPM	(2) 5/3600	2/1750	75/[illegible]750
MAXIMUM LIQUID TEMPERATURE (F)	80	150	[illegible]
LIQUID TYPE	WATER	WATER	WATER
SIZE - SUCT./DISCH./IMPELLER (IN.)	4" HEADER	1.25x1.5x[illegible]	[illegible]
PUMP TYPE	END SUCT.	END SUCT.	END SUCT.
ELECTRICAL			
VOLTAGE/PHASE/HERTZ	208/3/60	208/3/60	208/3/60
MANUFACTURER'S DATA			
MANUFACTURER	SYSTECON	AURORA	B.&G.
MODEL NUMBER	ES	344A	60
REMARKS			

HEATING & VENTILATING UNIT SCHEDULE

UNIT	
DESIGNATION	HVU-1
SUPPLY FAN	
SUPPLY CFM	4000
MINIMUM OUTSIDE AIR CFM	2000
EXTERNAL STATIC PRESSURE (IN.WG.)	1.2
TOTAL STATIC PRESSURE (IN.WG.)	2.3
HP/FAN RPM	3/1080
WATER HEATING COIL	
FACE AREA (SQ.FT.)/TRANE FIN TYPE	7.5/PF
ROWS/FINS	1/80
AIR PRESSURE DROP (IN.WG.)	.08
E.A.T./L.A.T. (F)	35/70
GPM/WATER TEMP. DROP (F)	15.2/20
WATER PRESSURE DROP (FT.WTR.)	10
AIR FILTER - 2" THROWAWAY	
% EFFICIENCY/AREA (SQ.FT.)	30/7.87
A.P.D. CLEAN/DIRTY (IN.WG.)	.2/.5
HP/NO OF MOTORS	.18/1
VOLTAGE/PHASE/HERTZ	120/1/60
ELECTRICAL	
VOLTAGE/PHASE/HERTZ	208/3/60
MANUFACTURER'S DATA	
MANUFACTURER	TRANE
MODEL NUMBER	CLCH-8
ARRANGEMENT	BLOW-THRU
OPERATING WEIGHT (LBS.)	1600

REMARKS: COMPLETE WITH MIXING BOX

VARIABLE AIR VOLUME BOX SCHEDULE

BOX DESIG.	TRANE MODEL NO./SIZE	MAX. CFM	MIN. CFM	MAX. UNIT PRES.DROP	MBH HT'G REQ'D
316	VCWC/800	510	200	.24	28
317	VCCC/200	110	0	.13	–
330	VCWC/200	60	15	.01	2
331	VCCC/200	80	0	.07	–
332	VCCC/200	80	0	.07	–
333	VCCC/200	80	0	.07	–
334	VCCC/200	80	0	.07	–
335	VCCC/200	80	0	.07	–
336	VCCC/200	80	0	.07	–
337	VCCC/200	80	0	.07	–
338	VCCC/200	130	0	.18	–
339	VCCC/200	120	0	.15	–
340	VCCC/200	140	0	.21	–
341	VCCC/800	410	0	.20	–
342	VCWC/1200	640	170	.13	10
343	VCWC/3000	2400	450	.25	20
344A	VCWC/1200	600	300	.11	11
344B	VCCC/400	300	0	.30	–
345	VCWC/1200	700	440	.16	25
346	VCWC/400	250	50	.16	2
347	VCWC/400	320	100	.27	5
350	VCWC/4000	3800	350	.62	57
351	VCWC/4000	3800	350	.62	57
352	VCWC/400	250	250	.16	7
353	VCWC/2000	1320	450	.25	26
401	VCWC/200	150	50	.06	4
402	VCWC/2000	1600	240	.36	14
403	VCWC/400	290	90	.22	6
404	VCWC/400	260	80	.18	6
405	VCWC/400	250	80	.16	6
406	VCWC/400	280	90	.21	6
407	VCCC/1200	660	0	.17	–
408	VCWC/800	550	250	.30	5
409	VCWC/400	230	80	.14	4
410	VCWC/2000	1260	570	.23	32
411	VCCC/200	140	0	.21	–
421	VCWC/2000	1720	280	.42	10
422	VCWC/4000	3280	450	.46	15
423	VCCC/1200	700	0	.19	–
424	VCWC/400	100	40	.03	2
425	VCWC/400	100	40	.03	2
426A	VCWC/1200	600	330	.11	14
426B	VCCC/400	300	0	.30	–
427	VCWC/1200	700	420	.26	15
428	VCWC/400	110	30	.16	2

VARIABLE AIR VOLUME BOX SCHEDULE

BOX DESIG.	TRANE MODEL NO./SIZE	MAX. CFM	MIN. CFM	MAX. UNIT PRES.DROP	MBH HT'G REQ'D
606	VCWC/400	250	70	.16	6
607	VCWC/400	250	70	.16	6
608	VCWC/400	270	80	.19	6
609	VCWC/1200	700	240	.19	7
610	VCWC/1200	700	240	.19	7
611	VCWC/800	460	160	.19	7
612	VCWC/800	460	160	.19	2
613	VCWC/200	150	50	.24	10
621	VCWC/400	380	130	.38	8
622	VCWC/400	380	130	.38	8
623	VCWC/400	380	130	.38	8
624	VCWC/400	380	130	.38	8
625	VCWC/400	380	130	.38	8
626	VCWC/400	380	130	.38	8
627	VCWC/400	380	130	.38	8
628	VCWC/400	380	130	.38	8
629A	VCWC/1200	600	320	.11	17
629B	VCWC/400	300	100	.30	6
630	VCWC/1200	700	490	.16	15
631	VCWC/200	110	30	.03	3
632	VCWC/400	180	30	.09	5
635	VCWC/4000	3100	350	.41	49
636	VCWC/4000	3100	350	.41	49
637	VCWC/400	250	250	.16	7
701	VCWC/1200	750	190	.18	11
702	VCWC/3000	2150	540	.20	19
703	VCWC/1200	1000	350	.32	24

VAV BOX NOTES

1. ALL UNITS REQUIRE 0.5" STATIC PRESSURE AT DISCHARGE.
2. ALL VCWC UNITS HAVE A WATER HEATING COIL. THE DUTY OF EACH BOX IS 56F ENTERING AIR TEMP, 200F ENTERING WATER TEMP. AND 20F WATER TEMP. DROP. THE REQUIRED HEATING LOAD IS AS LISTED ON THE SCHEDULE.
3. VAV BOXES AND ASSOCIATED DUCT SYSTEM ARE REQUIRED TO HAVE A MAXIMUM SOUND LEVEL OF A NC OF 30 IN ANY ROOM BEING SUPPLIED FROM A VAV BOX.

4

NOTE
FOR INSTALLED EQUIPMENT PHYSICAL DATA SEE MAINTENANCE AND OPERATING MANUAL

AS BUILT

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date. For other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CM-031-3

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved: director · design and construction division
date: 10-19-87

SCHEDULES

Sherman-Carter-Barnhart
PARTNERS IN ARCHITECTURE

JOB NO 8706
DATE 10/16/87
DRAWN
CHECKED
431.5

REVISIONS
3 - 90% REVIEW
4 - AS BUILT

SHEET
M•31

AIR HANDLING UNIT SCHEDULE

UNIT							
DESIGNATION	AHU-1	AHU-2	AHU-3	AHU-4	AHU-5	AHU-6	AHU-7
FAN							
CFM	5670	9190	12630	14510	10420	10420	3250
*EXTERNAL STATIC PRESSURE (IN.WG.)	2.8	4.1	4.2	4.0	3.2	3.4	2.5
*TOTAL STATIC PRESSURE (IN.WG.)	5.4	5.9	6.1	6.5	5.2	5.4	4.8
FAN WHEEL SIZE/TYPE	16/FC	24.5/AF	27/AF	30/AF	24.5/AF	24.5/AF	13/FC
HP/FAN RPM	10/1478	20/1888	25/1819	30/1881	20/1937	20/1961	7.5/1708
CHILLED WATER COIL							
FACE AREA (SQ.FT.)/TRANE FIN TYPE	10.63/PF	20/PF	27.5/PF	30.25/PF	22.5/PF	22.5/PF	7/PF
ROWS/FINS PER FOOT	8/118	8/118	8/109	10/91	8/106	8/103	8/93
AIR PRESSURE DROP (IN.WG.)	.74	.63	.60	.73	.57	.56	.44
E.A.T. (F.D.B./ F.W.B.)	82.5/65.5	82.3/65.6	82/64.9	83.5/66.7	81.4/63.9	81.3/63.8	80.0/62.4
L.A.T. (F.D.B./ F.W.B.)	52.7/52.5	52.4/52.3	52.2/52	52.5/52.3	52.1/51.8	53.1/51.9	53.5/51.3
GPM/WATER TEMP. RISE (F)	34.7/12	60.5/12	79.7/12	104.8/12	60.8/12	59.8/12	16.6/12
WATER PRESSURE DROP (FT.WTR.)	4.4	3.8	7.3	13.2	3.8	3.7	1.1
WATER HEATING COIL							
FACE AREA (SQ.FT.)/TRANE FIN TYPE	10.63/PF	27.5/PF	27.5/PF	30.25/PF	22.5/PF	22.5/PF	7/PF
ROWS/FINS PER FOOT	1/90	1/89	1/87	1/89	1/88	1/88	1/124
AIR PRESSURE DROP (IN.WG.)	.08	.06	.06	.07	.06	.06	.07
E.A.T./L.A.T. (F)	0/50	0/50	0/50	0/50	0/50	0/50	0/70
GPM/WATER TEMP. DROP (F)	29.3/20	49.9/20	68.6/20	78.8/20	56.6/20	56.6/20	24.7/20
WATER PRESSURE DROP (FT.WTR.)	1.5	.7	1.6	1.8	1.0	1.0	1.8
AIR FILTER - ROLL TYPE							
% EFFICIENCY	30	30	30	30	30	30	** 30
A.P.D. CLEAN/DIRTY (IN.WG.)	.2/.4	.2/.4	.2/.4	.2/.4	.2/.4	.2/.4	.2/.4
OVERALL SIZE OR FACE AREA(SQ.FT.)	10.6	72x72	72x72	72x72	72x72	72x72	7.87
HP/NUMBER OF MOTORS	.18/1	.18/1	.18/1	.18/1	.18/1	.18/1	N/A
VOLTAGE/PHASE/HERTZ	120/1/60	120/1/60	120/1/60	120/1/60	120/1/60	120/1/60	N/A
AIR FILTER - PLEATED CARTRIDGE							
% EFFICIENCY	55	55	55	55	55	55	55
A.P.D. CLEAN/DIRTY (IN.WG.)	.2/.6	.3/.8	.3/.8	.3/.8	.3/.8	.3/.8	.2/.6
OVERALL SIZE OR FACE AREA(SQ.FT.)	6	60x60	60x60	60x60	60x60	60x60	8
UNIT ELECTRICAL							
VOLTAGE/PHASE/HERTZ	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60
MANUFACTURER'S DATA							
MANUFACTURER	TRANE	WEBCO	WEBCO	WEBCO	WEBCO	WEBCO	TRANE
MODEL NUMBER	CLCH-12	CUS-10000	CUS-13000	CUS-15000	CUS-11000	CUS-11000	CLCH-8
ARRANGEMENT	BLOW-THRU	BLOW-THRU	BLOW-THRU	BLOW-THRU	BLOW-THRU	BLOW-THRU	BLOW-THRU
OPERATING WEIGHT (LBS.)	2200						1900

REMARKS: AHU-1 & AHU-7 COMPLETE WITH HI-EFFICIENCY MIXING BOX AND INLET VANES. AHU-1 HAS WIDE COIL.
* EXTERNAL STATIC PRESSURE INCLUDES ALL STATIC PRESSURE LOSSES EXTERNAL TO THE UNIT. ALL COIL, PLENUM, BAFFLES, INTERNAL DAMPERS, AND FILTERS (USE A TOTAL OD 1.2" LOSS FOR DIRTY FILTERS FOR AHU-2 TO AHU-6. 1" FOR AHU-1 AND AHU-7. .4" IS FOR THE ROLL FILTER AND .8" FOR THE CARTRIDGE FILTERS) IS CONSIDERED INTERNAL TO THE UNIT AND WILL BE INCLUDED WITH THE TOTAL STATIC PRESSURE.
** 2" THROWAWAY FILTER

DUPLEX STEAM CONDENSATE PUMP SCHEDULE

UNIT	
DESIGNATION	[illegible]
PUMP	
GPM [illegible]	45
MAXIMUM [illegible]OR (SQ.F[illegible])	30000
TOTAL HEAD (PSIG)	50
HP EACH/PUMP RPM	3/1750
RECEIVER SIZE (GALLONS)	60
ELECTRICAL	
VOLTAGE/PHASE/HERTZ	208/3/60
MANUFACTURER'S DATA	
MANUFACTURER	AURORA
MODEL NUMBER	SERIES 21[illegible]

REMARKS: COMPLETE W/THERMOM[illegible], PRESSURE GAUGES, NEMA 1 CONTROL [illegible] STARTERS 2 HAND-OFF-AUTO SWITCH[illegible], 2 SELEC[illegible]OR SWITCHES, 4" VENT CONNECTION, ELECTRIC ALTERNATOR, INLET "Y" STRAINER, TOTALLY PRE[illegible]ED, PIPED AND TESTED

STEAM PRESS.SAFETY RELIEF VALVE SCHEDULE

GENERAL	
UNIT DESIGNATION	SV-1
VALVE	
SIZE (IN.)	4 x 6
PRESSURE SETTING (PSIG)	15
CAPACITY (LBS./HOUR)	[illegible]3629
MANUFACTURER'S DATA	
MANUFACTURER	CONSOLIDATED
MODEL NUMBER	1905P/P1 & P2
REMARKS	

FAN SCHEDULE

UNIT										
DESIGNATION	EF-1	EF-2	EF-3	EF-4	EF-5	EF-6	SF-1	SF-2	RF-1	EF-7
DUTY	TOILET EXHAUST	BSMT.MECH. EXHAUST	ROOF MECH. EXHAUST	F.PUMP RM. EXHAUST	EMER.GEN. RM.EXH.	WELDING EXHAUST	EMER.GEN. RM.SUP.	F.PUMP RM. SUPPLY	RELIEF AIR	ANDERSON HALL MECH ROOM EXH
FAN										
CFM	4540	8000	1000	1000	5000	1000	5000	1000	53500	5000
EXTERNAL STATIC PRESSURE (IN.WG.)	1.5	.75	.5	.5	.5	.75	.75	.75	2.8	.4
TOTAL STATIC PRESSURE (IN.WG.)	1.7	.95	.6	.6	.6	.9	.9	.9	3.5	.5
HP/FAN RPM	3/922	5/1651	.5/3450	.5/3450	.75/1750	.5/1227	1/1750	.5/1227	50/628	.75/1742
DRIVE TYPE	BELT	BELT	DIRECT	DIRECT	BELT	BELT	DIRECT	BELT	BELT	BELT
DISCHARGE ARRANGEMENT	UPBLAST	1	N/A	N/A	N/A	2	N/A	2	UPBLAST	N/A
FAN TYPE	SWSI	INLINE	*PROP	*PROP	*PROP	INLINE	*PROP	INLINE	SWSI	* PROP
ELECTRICAL										
VOLTAGE/PHASE/HERTZ	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60
MANUFACTURER'S DATA										
MANUFACTURER	TRANE	TRANE	AEROVENT	AEROVENT	AEROVENT	TRANE	AEROVENT	TRANE	TRANE	AEROVENT
MODEL NUMBER	**24AFSW	Q-24	12M618	12M618	24L222	Q-16	24L420	Q-16	**60AFSW	24L222

REMARKS: * WITH MOUNTING ADAPTER AND FLAT WIRE GUARD
** COMPLETE WITH BELT GUARD AND INERTIA BASE

OUTSIDE AIR INTAKE LOUVER SCHEDULE

GENERAL						
UNIT DESIGNATION	OAI-1	OAI-2 TO 6	OAI-7	OAI-8	OAI-9	OAI-10
LOUVER						
CAPACITY, CFM	9400	14510 MAX.	3250	1000	1000	5000
AIR PRESSURE DROP (IN.WG.)	.1	.1	.1	.1	.1	.1
DAMPER SIZE (IN.)	54x88 30x88	- -	- -	24x24	24x24	30x30
OVERALL SIZE (IN.)	84x88	60x120	42x48	24x24	24x24	30x30
MANUFACTURER'S DATA						
MANUFACTURER	AIROLITE	AIROLITE	AIROLITE	AIROLITE	AIROLITE	AIROLITE
MODEL NUMBER	K-609	K-609	K-609	K-609	K-609	K-609
REMARKS:COLOR TO BE SELECTED ARCHITECT						

RELIEF AND EXHAUST LOUVER SCHEDULE

GENERAL						
UNIT DESIGNATION	EAL-1	EAL-2	EAL-3	EAL-4	EAL-5	EAL-6
LOUVER						
CAPACITY, CFM	8000	1000	1000	5000	1000	7000
AIR PRESSURE DROP (IN.WG.)	15	.15	.15	.15	.15	.15
OVERALL SIZE (IN.)	60X56	24X24	24X24	41.5x144	24X24	30x60
MANUFACTURER'S DATA						
MANUFACTURER	AIROLITE	AIROLITE	AIROLITE	AIROLITE	AIROLITE	AIROLITE
MODEL NUMBER	K-609	K-609	K-609	K-609	K-609	K-609
REMARKS: COLOR TO BE SELECTED BY ARCHITECT						

4

NOTE
FOR INSTALLED EQUIPMENT PHYSICAL DATA SEE MAINTENANCE AND OPERATING MANUAL.

AS BUILT

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CM-032-3

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

STATE OF KENTUCKY – ROBERT L. SMITH – 13904 – REGISTERED PROFESSIONAL ENGINEER

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved: director - design and construction division
date: 10.19.97

SCHEDULES

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606-254-1351

JOB NO. 8706
DATE 10/16/97
DRAWN [illegible]
CHECKED [illegible]
UK FILE NO 431.0

REVISIONS
3- 90% REVIEW
4- AS BUILT

SHEET
M•32

Cab # 82 | Slot C-3 | Document # 004963

DIFFUSER, GRILLE AND REGISTER SCHEDULE

UNIT														
DESIGNATION	A	B	C	D	E	F	G	H	I	J	K	L	M
TYPE	CEILING DIFFUSER	CEILING DIFFUSER	SUPPLY REGISTER	TERMINAL OUTLET	CEILING GRILLE	CEILING GRILLE	CEILING GRILLE	CEILING GRILLE	CEILING GRILLE	CEILING GRILLE	CEILING GRILLE	CEILING GRILLE	WALL GRILLE
OVERALL SIZE (IN.)	12x12	24x24	**	**	12x12	12x24	24x24	**	12x12	12x24	24x24	**	**
NECK SIZE (IN.)	*	*	*	*	10x10	10x22	22x22	*	10x10	10x22	22x22	*	*
MAXIMUM NC	30	30	30	30	30	30	30	30	30	30	30	30	30
OPPOSED BLADE DAMPER	YES	YES	YES	NO	YES	YES	NO	NO	NO	NO	NO	NO	NO
FRAME TYPE	T-BAR	T-BAR	SURFACE	N/A	T-BAR	T-BAR	T-BAR	T-BAR	T-BAR	T-BAR	T-BAR	T-BAR	SURFACE
MANUFACTURER'S DATA													
MANUFACTURER	TITUS	TITUS	TITUS	UNITED SHT.METAL	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS
SERIES NO.	TMSA	TMSA	272FL5	FACTAIR MODEL 100	50F5	50F5	50F5	50F5	23RL	23RL	23RL	23RL	23RL

REMARKS: COLOR TO BE SELECTED BY ARCHITECT
* AS INDICATED ON THE DRAWINGS
** SAME AS THE NECK SIZE

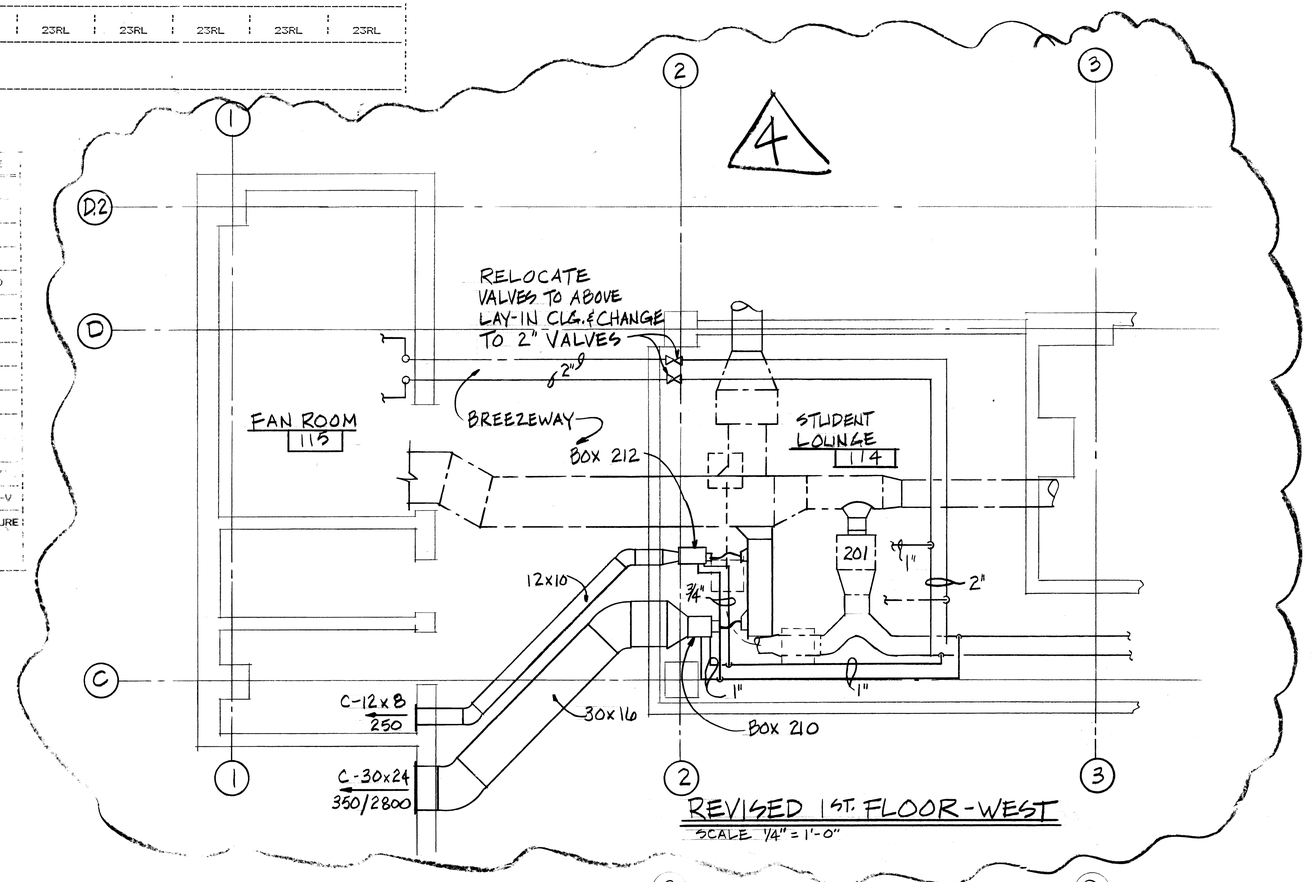
STEAM PRESSURE REDUCING VALVE SCHEDULE

GENERAL		
UNIT DESIGNATION	PRV-1	PRV-2
VALVE		
BODY SIZE (IN.)	3/4	2
CAPACITY (LBS./HOUR)	1768	7280
RANGE (LBS./HOUR)	0-1768	0-7280
INLET PRESSURE (PSIG)	175	175
OUTLET PRESSURE (PSIG)	15	15
TYPE	BRONZE	BRONZE
MANUFACTURER'S DATA		
MANUFACTURER	LESLI	LESLIE
MODEL NUMBER	GPB	429
REMARKS		

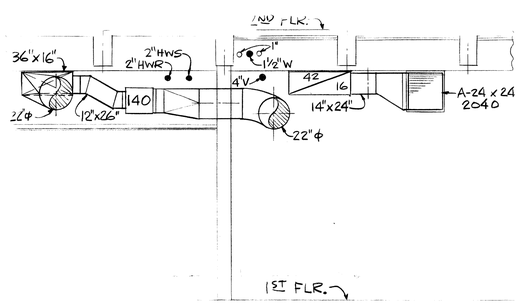
STEAM WATER HEATER SCHEDULE

UNIT	
DESIGNATION	HWH-1
WATER	
GALLONS PER HOUR	120
E.W.T./L.W.T. (F)	40/140
STEAM	
POUNDS OF STEAM/HOUR	110
STEAM PRESSURE (PSIG)	10
OPERATING PRESSURE (PSIG)	60
STORAGE	
STORAGE CAPACITY (GALLON)	240
MANUFACTURER'S DATA	
MANUFACTURER	PAT.KEL.
MODEL NUMBER	200 2/2-V

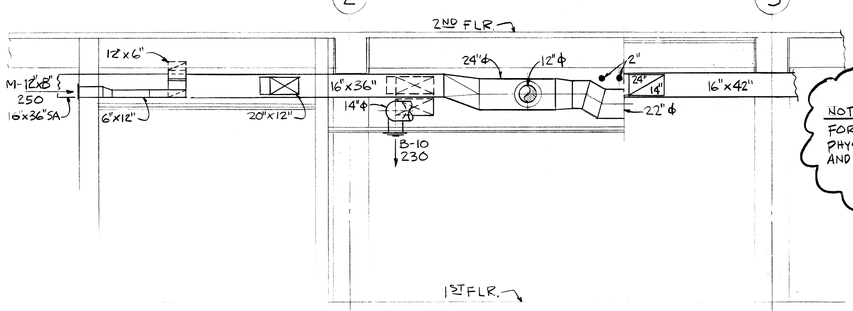
REMARKS: SUPPLY FACTORY INSTALLED TEMPERATURE AND PRESSURE RELIEF VALVE ON WATER SIDE.



REVISED 1ST. FLOOR-WEST
SCALE 1/4" = 1'-0"



SECTION "B-B"
SCALE: 1/4" = 1'-0"



SECTION "A-A"
SCALE: 1/4" = 1'-0"

4
NOTE
FOR INSTALLED EQUIPMENT PHYSICAL DATA, SEE MAINTENANCE AND OPERATING MANUAL.

AS BUILT
BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CM-033-3

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved by
director - design and construction division
date 10.19.97

SCHEDULES

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-1351

JOB NO. 9706
DATE 10/16/97
DRAWN
CHECKED
431.6

REVISIONS
3-90% REVIEW
4-AS BUILT

SHEET
M-33

Cab # Slot Document #
C-3 0443K4
82

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

FORM ECSUK

EQUIPMENT COORDINATION SCHEDULE

JOBNAME : U.K ROBOTICS COMM. NO. : 4361 DATE 9/25/87 BY JOHN MCCLOY

MARK	DESCRIPTION	LOCATION	FURN. BY	INST. BY	HP	KW	FLA	VOLTS	PH.	HZ	CONNECT TYPE DIR.	CONNECT TYPE PLUG	DISCONNECT DEVICE TYPE	DISCONNECT FURN. BY	DISCONNECT INST. BY	DISCONNECT LOC.	DISCONNECT WIRED BY LINE	DISCONNECT WIRED BY LOAD	CONTROLLER TYPE	CONTROLLER FURN. BY	CONTROLLER INST. BY	CONTROLLER WIRED BY LINE	CONTROLLER WIRED BY LOAD	CONTROLS TYPE	CONTROLS FURN. BY	CONTROLS INST. BY	CONTROLS WIRED BY LINE	CONTROLS WIRED BY LOAD	INTER LOCK	SCHM. NO.
AH-1	AIR HANDLING UNIT	MECH. RM. BSM'T	M	M	10			208	3	60			FSD	E	E	MCC	E	E	FVNR	E	E	E	E	HOA	E	E	E	E		
																								SDD	E	M	E	E	SPCL	
																								SDD	E	M	E	E	SPCL	
																								FZ	M	M	M	M	DDC	
AH-2	AIR HANDLING UNIT	1ST FLOOR VAV ROOM	M	M	20			208	3	60			FSD	E	E	MCC	E	E	FVNR	E	E	E	E	HOA	E	E	E	E		
																								SDD	E	M	E	E	SPCL	
																								SDD	E	M	E	E	SPCL	
																								FZ	M	M	M	M	DDC	
AH-3	AIR HANDLING UNIT	2ND FLOOR VAV ROOM	M	M	25			208	3	60			FSD	E	E	MCC	E	E	FVNR	E	E	E	E	HOA	E	E	E	E		
																								SDD	E	M	E	E	SPCL	
																								SDD	E	M	E	E	SPCL	
																								FZ	M	M	M	M	DDC	
AH-4	AIR HANDLING UNIT	3RD FLOOR VAV ROOM	M	M	30			208	3	60			FSD	E	E	MCC	E	E	FVNR	E	E	E	E	HOA	E	E	E	E		
																								SDD	E	M	E	E	SPCL	
																								SDD	E	M	E	E	SPCL	
																								FZ	M	M	M	M	DDC	
AH-5	AIR HANDLING UNIT	4TH FLOOR VAV ROOM	M	M	20			208	3	60			FSD	E	E	MCC	E	E	FVNR	E	E	E	E	HOA	E	E	E	E		
																								SDD	E	M	E	E	SPCL	
																								SDD	E	M	E	E	SPCL	
																								FZ	M	M	M	M	DDC	
AH-6	AIR HANDLING UNIT	5TH FLOOR VAV ROOM	M	M	20			208	3	60			FSD	E	E	MCC	E	E	FVNR	E	E	E	E	HOA	E	E	E	E		
																								SDD	E	M	E	E	SPCL	
																								SDD	E	M	E	E	SPCL	
																								FZ	M	M	M	M	DDC	
AH-7	AIR HANDLING UNIT	MECH. RM. PENTHOUSE	M	M	7.5			208	3	60			FSD	E	E	MCC	E	E	FVNR	E	E	E	E	HOA	E	E	E	E		
																								SDD	E	M	E	E	SPCL	
																								SDD	E	M	E	E	SPCL	
																								FZ	M	M	M	M	DDC	
ACOMP-1	AIR COMPRESSOR	MECH. RM. BSM'T	M	M	30			208	3	60			NFSD	V	V	U	E	V	FVNR	V	V	V	V	ON-OFF	V	V	V	V	DDC	
ADRY-1	COMP. AIR DRYER	MECH. RM. BSM'T	M	M		3		208	3	60			NFSD	V	V	U	E	V	FVNR	V	V	V	V	ON-OFF	V	V	V	V		
ACOMP-2	AIR COMPRESSOR	MECH. RM. BSM'T	M	M	5			208	3	60			NFSD	V	V	U	E	V	FVNR	V	V	V	V	ON-OFF	V	V	V	V	DDC	
ADRY-2	COMP. AIR DRYER	MECH. RM. BSM'T	M	M		1		208	3	60			NFSD	V	V	U	E	V	FVNR	V	V	V	V	ON-OFF	V	V	V	V		
SCP-1	CONDENSATE PUMP	MECH. RM. BSM'T	M	M	(2) 3			208	3	60			FSD	V	V	U	E	V	(2)FVN	V	V	V	V	LS	V	V	V	V	DDC	
HHWP-1,2	HEATING HW PUMP		M	M	(2) 20			208	3	60			FSD	E	E	MCC	E	E	FVNR	E	E	E	E	HOA	E	E	E	E	DDC	
FP-1	FIRE PUMP	FIRE PUMP ROOM	M	M	50			208	3	60			NFSD	V	V	U	E	V	FVNR	V	V	V	V	HOA	V	V	E	V	SPCL	
JP-1	JOCKEY PUMP		M	M	0			208	3	60			NFSD	V	V	U	E	V	FVNR	V	V	V	V	HOA	V	V	E	V	SPCL	
DWP-1,2	DOMESTIC WATER PUMP	MECH. RM. BSM'T	M	M	(2) 5			208	3	60			FSD	V	V	U	E	V	(2)FVN	V	V	V	V	HOA	V	V	V	V		
DHWP-1	DOMESTIC HOT WATER PUMP	MECH. RM. BSM'T	M	M	2			208	3	60			FSD	E	E	MCC	E	E	FVNR	E	E	E	E	SS	E	E	E	E		
DHWRP-1	DOM. HOT WATER RECIRC. PUMP	MECH. RM. BSM'T	M	M	.75			208	3	60			FSD	E	E	MCC	E	E	FVNR	E	E	E	E	SS	E	E	E	E		

FORM ECSUK

EQUIPMENT COORDINATION SCHEDULE

MARK	DESCRIPTION	LOCATION	FURN. BY	INST. BY	HP	KW	FLA	VOLTS	PH.	HZ	CONNECT TYPE DIR.	CONNECT TYPE PLUG	DISCONNECT DEVICE TYPE	DISCONNECT FURN. BY	DISCONNECT INST. BY	DISCONNECT LOC.	DISCONNECT WIRED BY LINE	DISCONNECT WIRED BY LOAD	CONTROLLER TYPE	CONTROLLER FURN. BY	CONTROLLER INST. BY	CONTROLLER WIRED BY LINE	CONTROLLER WIRED BY LOAD	CONTROLS TYPE	CONTROLS FURN. BY	CONTROLS INST. BY	CONTROLS WIRED BY LINE	CONTROLS WIRED BY LOAD	INTER LOCK	SCHM. NO.
SF-1	SUPPLY FAN EMER. GEN.	EMER. GEN RM.	M	M	1			208	3	60			FSD	E	E		E	E	FVNR	E	E	E	E	HOA	E	E	E	E		
																								PS	M	M	E	E		
																								SDD	E	M	E	E	SPCL	
RF-1	RELIEF FAN	MECH. RM. PENTHOUSE	M	M	50			208	3	60			FSD	E	E	MCC	E	E	FVNR	E	E	E	E	HOA	E	E	E	E	DDC	
																								SDD	E	M	E	E	SPCL	
EF-1	EXHAUST FAN TOILET	MECH. RM. PENTHOUSE	M	M	2			208	3	60			FSD	E	E	MCC	E	E	FVNR	E	E	E	E	HOA	E	E	E	E	DDC	
EF-2	EXHAUST FAN MECH RM. BSM'T	MECH. RM. BSM'T	M	M	5			208	3	60			FSD	E	E	MCC	E	E	FVNR	E	E	E	E	HOA	E	E	E	E	DDC	
EF-3	EXH. FAN MECH RM. PENTHOUSE	MECH. RM. PENTHOUSE	M	M	.5			208	3	60			FSD	E	E	MCC	E	E	FVNR	E	E	E	E	HOA	E	E	E	E	DDC	
EF-4	FIRE PUMP ROOM EXHAUST	FIRE PUMP ROOM	M	M	.5			208	3	60			FSD	E	E		E	E	FVNR	E	E	E	E	HOA	E	E	E	E	SF-2	
																								PS	M	M	E	E		
EF-5	EXHAUST EMERGENCY GENERATOR	EMERGENCY GENERATOR RM.	M	M	1			208	3	60			FSD	E	E		E	E	FVNR	E	E	E	E	HOA	E	E	E	E	SF-1	
																								TS	M	M	E	E		
EF-6	WELDING EXHAUST	MACINE BAY	M	M	.5			208	3	60			FSD	E	E	MCC	E	E	FVNR	E	E	E	E	HOA	E	E	E	E		
																								SS	E	E	E	E		
SF-2	FIRE PUMP ROOM SUPPLY	FIRE PUMP ROOM	M	M	.5			208	3	60			FSD	E	E		E	E	FVNR	E	E	E	E	HOA	E	E	E	E		
																								TS	M	M	E	E		
F-1 TO 6	ROLL FILTERS	RECIR. AH 1 TO AH 6	M	M	.1			120	1	60									MAN	M	M	E	M	SS	M	M	E	M		
HVU-1	HEAT & VENT. UNIT	MECH. RM. BSM'T	M	M	3			208	3	60			FSD	E	E	MCC	E	E	FVNR	E	E	E	E	HOA	E	E	E	E		
																								SDD	E	M	E	E	SPCL	
																								SDD	E	M	E	E	SPCL	
																								PS	M	M	E	E		
UH-1	UNIT HEATER	TRUCK DOCK	M	M	.17			120	1	60									MAN	E	E			TS	M	M	E	E		
UH-2	UNIT HEATER	FIRE PUMP ROOM	M	M	.05			120	1	60									MAN	E	E			TS	M	M	E	E		
UH-3	UNIT HEATER	1ST FLOOR VAV ROOM	M	M	.05			120	1	60									MAN	E	E			TS	M	M	E	E		
UH-4	UNIT HEATER	2ND FLOOR VAV ROOM	M	M	.05			120	1	60									MAN	E	E			TS	M	M	E	E		
UH-5	UNIT HEATER	3RD FLOOR VAV ROOM	M	M	.05			120	1	60									MAN	E	E			TS	M	M	E	E		
UH-6	UNIT HEATER	4TH FLOOR VAV ROOM	M	M	.05			120	1	60									MAN	E	E			TS	M	M	E	E		
UH-7	UNIT HEATER	5TH FLOOR VAV ROOM	M	M	.05			120	1	60									MAN	E	E			TS	M	M	E	E		
UH-8	UNIT HEATER	MECH. ROOM ROOF	M	M	.05			120	1	60									MAN	E	E			TS	M	M	E	E		

SYMBOL LEGEND

CONTRACTOR	LOCATION	DISCONNECT	CONTROLLER	CONTROLS	
M- PROVIDED UNDER DIV 15	U- LOCATED AT UNIT	FSD- FUSED	FVNR- FULL VOLTAGE, NON-REV	HOA- HAND-OFFAUTO SEL SW	SC- STEP CONTROLLER
E- PROVIDED UNDER DIV 16	R- LOCATED REMOTELY	NFSD- NON-FUSED	FNR- FULL VOLTAGE, REV.	ON-OFF- ON-OFF SEL SW	SCR- SILICON CONT'L RECT.
O- OWNER	S- LOCATED IN STARTER		2SP- TWO SPEED	SS- START-STOP SW	PLC PROG LOGIC CONTROLLER
V- VENDOR OR EQ. MFGR.	MCC- LOCATED IN MCC		MAN- MANUAL	LS- LEVEL SW	DDC- DIRECT DIG CONTROLLER
	ACP- LOCATED IN EQ. MFG.		COMB- COMBINATION STARTER	PS- PRESSURE SW	SPCL- SPECIAL
				SOV- SOLENOID VALVE	LZ- LIMIT SWITCH
				SDD- SMOKE DETECTOR	PL- PILOT LIGHT
				FR- FIRE STAT	- R - RED
				FZ- FFEEZE STAT	- G - GREEN
				TS- TEMP SWITCH	- A - AMBER

AS BUILT

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CM-034-3

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved by [signature] 10-19-87
director - design and construction division
date

SCHEDULES

Sherman · Carter · Barnhart
PARTNERS IN ARCHITECTURE
SUITE 900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606-254-1351

JOB NO 8706
DATE 10-16-87
DRAWN LE CASE
CHECKED
UK FILE NO 431.0

REVISIONS
3 - 90% REVIEW

SHEET
M•34

Cab # 82 Slot C-3 Document # 004965

	DIAGRAMATIC SLIDE OR GRAPHIC	INTERCOM STATION	ANALOG INDICATION: TEMPERATURE	PRESSURE	RELATIVE HUMIDITY	TOTALIZATION	CHILLER STATUS	ALARM: DIGITAL (CONTROL)	ANALOG	MINOR ALARM	MAJOR ALARM	MAINTENANCE	CONTROL: START/STOP & STATUS	STATUS	OPEN/CLOSED	*PROGRAM CONTROL	RESET CONTROL PT. ADJ.	DAMPER POS. ADJ.	DAMPER CPA	POSITION FEEDBACK FOR CPA OR DPA	REMARKS
AH UNITS 1-7																					
SUPPLY FAN													X			X					SUPPLY FAN VAV CONTROLLED BY SOFTWARE
DISCHARGE AIR			X						X												EACH AHU TO HAVE 60MIN OVERRIDE
RETURN AIR			X						X												RUN SWITCH ACCESSIBLE TO OCCUPANTS
MIXED AIR			X						X												FAN STARTS FROM AUX. CONTACT AT STARTER
SPACE TEMP.			X						X												
HOT & CHILLED WATER COILS																		X			CONTROLLED THRU SOFTWARE
DAMPERS																		X			CONTROLLED THRU SOFTWARE
FREEZE								X						X							
FILTERS																					
DUCT STATIC				X																	READOUT AT CENTRAL PANEL
CONDENSATE PUMP								X													FLOAT PROVIDED BY HONEYWELL
HOT WATER PUMP #1													X								ALT. PUMP THRU SOFTWARE
HOT WATER PUMP #2													X								ALT. PUMP THRU SOFTWARE
MAIN CHILL WATER VALVE															X						
EMER. GENERATOR														X							
MAIN EXHAUST FAN													X					X			VANE ACT. CONTROLLED THRU SOFTWARE
EX. FAN #1													X								
EX. FAN #2													X								
EX. FAN #3													X								
OUTSIDE DOORS 1 THRU 7														X							
HOT WATER SUPPLY			X						X												
HOT WATER RETURN			X						X												
CONVERTOR VALVES																		X			CONTROLLED THRU SOFTWARE
OUTDOOR TEMP.			X																		
PRV STEAM IN				X					X												
PRV STEAM OUT				X					X												
BTU METER						X															
AIR COMPRESSOR LAB				X					X												
AIR COMPRESSOR T C				X					X												
CHILLED WATER SUPPLY			X						X												
CHILLED WATER RETURN			X						X												
KW METERING						X															
DOMESTIC HOT WATER			X						X												
CONDENSATE METER						X															
LIEBERT UNIT			X		X		X			X	X			X							

* PROGRAM CONTROL CONSISTS OF :
1. SUMMER WINTER CHANGEOVER
2. NIGHT PURGE
3. NIGHT CYCLE
4. DUTY CYCLE
5. LOAD RESET
6. LOAD SHED
7. OPTIMUM S/S
8. DAY/NIGHT SWITCH

AS BUILT

NOTE:
THIS DRAWING ISSUED FOR REFERENCE FOR COORDINATION OF CONTROL VALVES, THERMOWELLS, SMOKE DETECTORS AND PRESSURE TAPS INSTALLED UNDER DIV.15, THESE SPECIFICATIONS.

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CM-035-3

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

10-15-87
approved
director - design and construction division

SCHEDULES

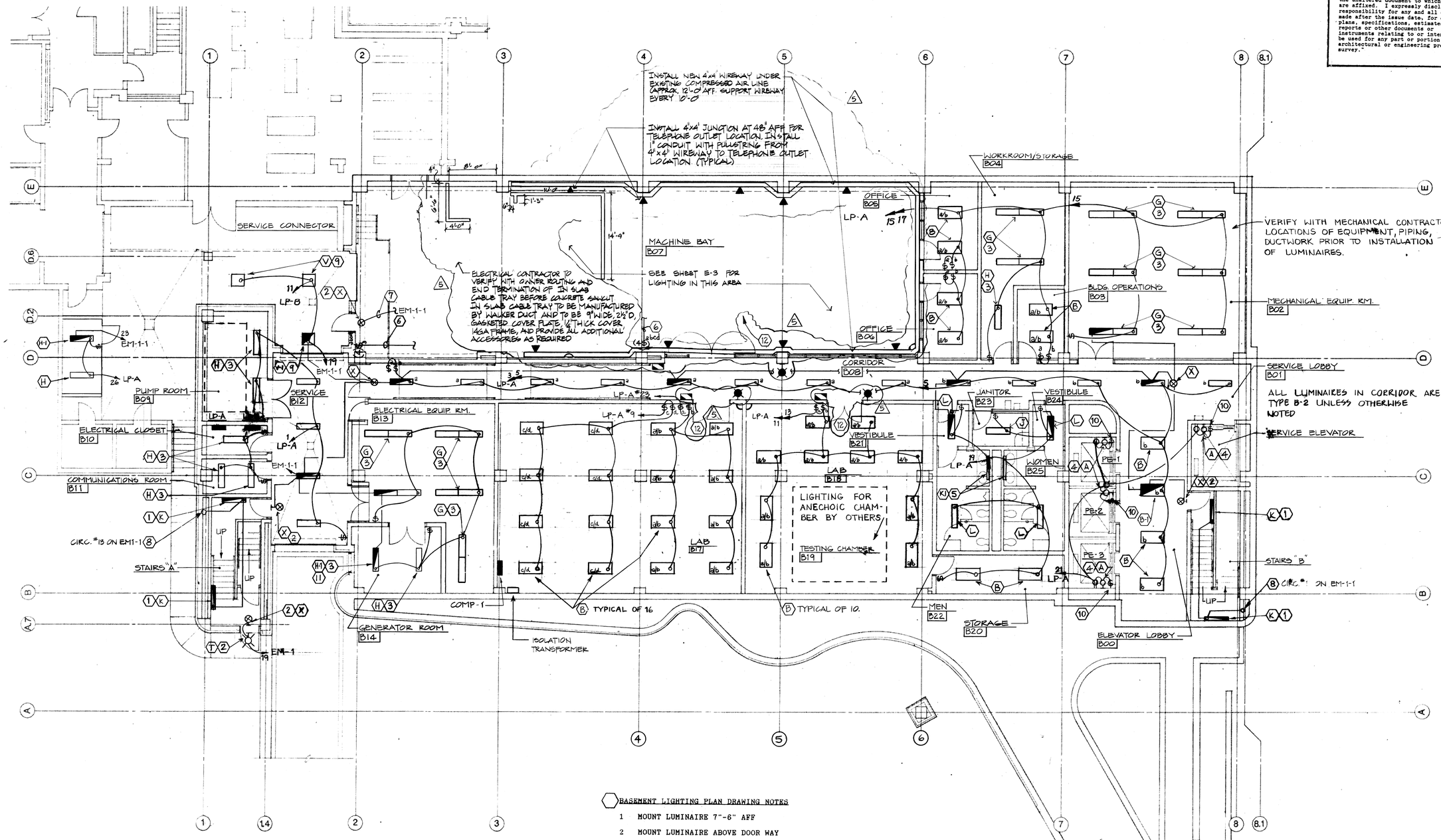
Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-1351

JOB NO. 8706.0
DATE 10/16/87
DRAWN S. THOMPSON
CHECKED
UK FILE NO. 431.0

REVISIONS
3- 90% REVIEW

SHEET
M-35

Cab # 82 Slot C-3 Document # 004966



BASEMENT FLOOR PLAN

1/8" = 1'-0"

BLDG. NORTH

BASEMENT LIGHTING PLAN DRAWING NOTES

1. MOUNT LUMINAIRE 7"-6" AFF
2. MOUNT LUMINAIRE ABOVE DOOR WAY
3. CHAIN SUSPEND LUMINAIRE FROM CEILING CONSTRUCTION TO 9'-0" AFF.
4. MOUNT LIGHT AND RECEPTACLE IN ELEVATOR PIT. 18" AFF MOUNT NEAR PIT ACCESS LADDER
5. MOUNT LUMINAIRE DIRECTLY ABOVE MIRROR
6. ROUTE SWITCH LEGS TO LUMINAIRES IN MACHINE BAY. SEE SHEET E-3 FOR LOCATIONS OF LUMINAIRES.
7. CONNECT TO LUMINAIRES ON EMERGENCY CIRCUIT IN MACHINE BAY. SEE SHEET E-3 FOR LOCATION.
8. STAIR POWER RISER. ROUTE UP TO THIRD FLOOR. SEE THIRD FLOOR LIGHTING PLAN FOR CONTINUATION.
9. MOUNT LUMINAIRE TO UNDERSIDE OF PEDWAY CONSTRUCTION
10. MOUNT SWITCH FOR PIT LIGHT 4'-0" ABOVE BASEMENT FLOOR LEVEL
11. CONNECT EMERGENCY BALLAST MOUNTED IN LUMINAIRE TO LINE AHEAD OF ALL SWITCHING.
12. INSTALLER TO PROVIDE MOTION DETECTORS AS REQUIRED IN SECURED ROOM (5)

AS BUILT
3-1-91

NORTH

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CE-001-4

8706
8/7/2016

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

83
B1

University of Kentucky
Lexington, Kentucky

10-19-87
energy, design and construction division

BASEMENT FLR. LIGHTING PLAN

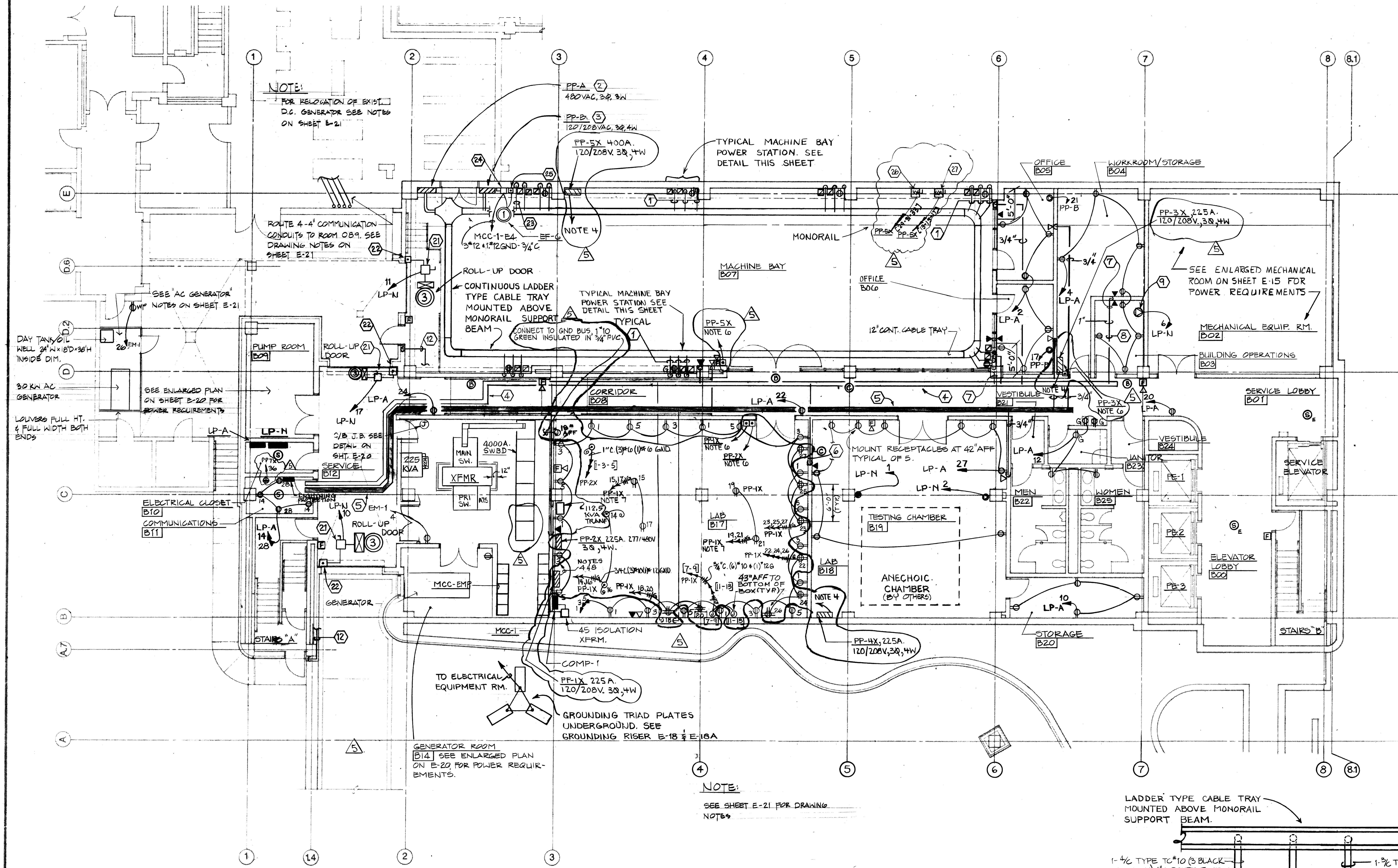
Herman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606-254-1351

JOB NO. 8706
DATE 9-30-87
DRAWN D. MEYER
CHECKED M. GOLDEN
FILE NO. 431.0

REVISIONS
3-90% REVIEW 10-16-87
4-GENERAL 7-18-87
5-RENOVATION 2-16-88

SHEET
E-1

Cab # 83 Shelf B-1 Document # 6043967



NOTE:

SEE SHEET E-21 FOR DRAINING NOTES

NOTES

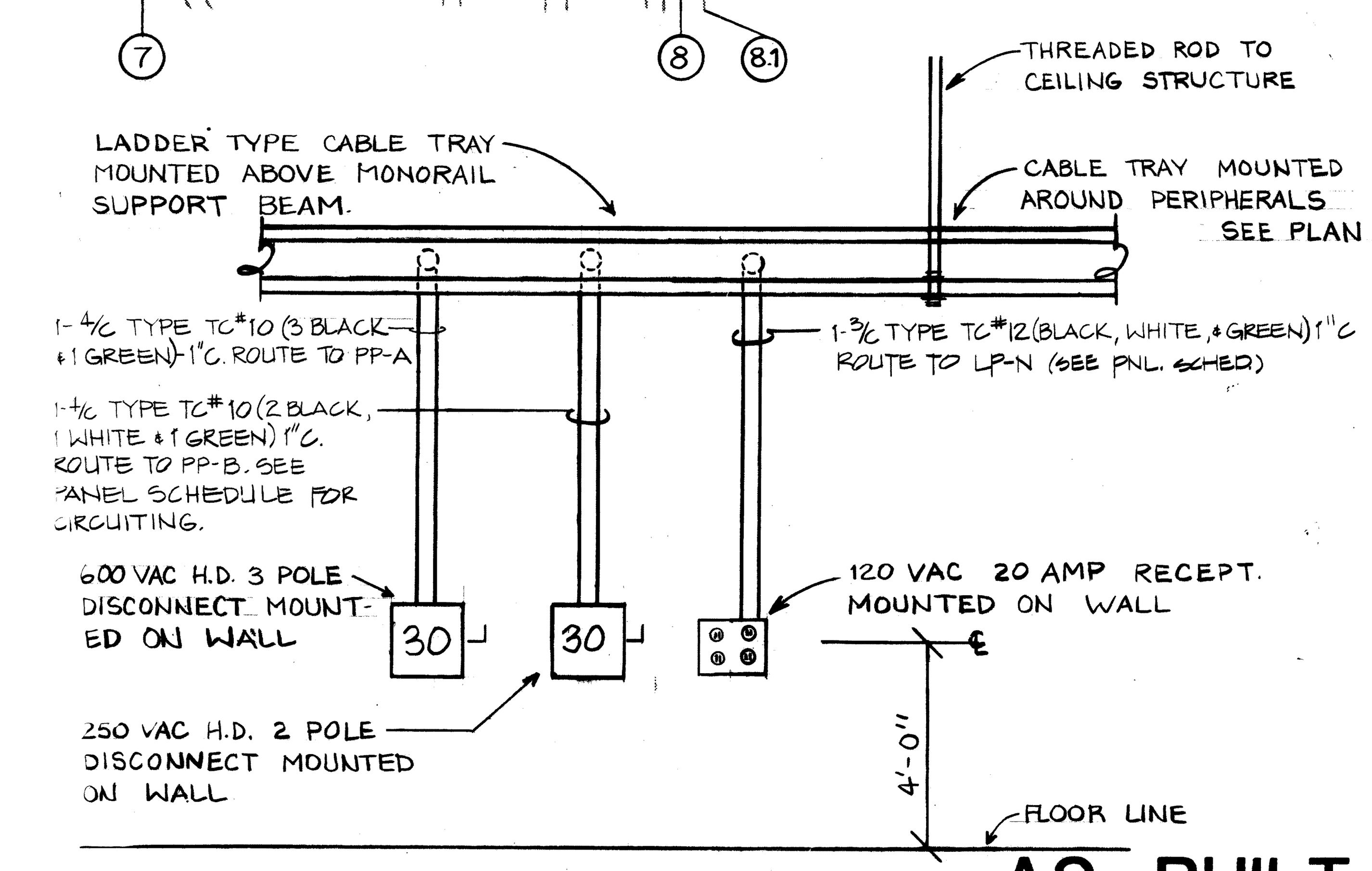
1. ROUTE ALL PROGRAMMED BELLS ON BASEMENT, 1ST, & 2ND FLOORS ON COMMON CIRCUIT TO C/B JUNCTION BOX LOCATED IN ELECTRICAL EQUIPMENT ROOM IN BASEMENT. ROUTE ALL BELLS TO CIRCUIT LP-A-16.
2. ROUTE ALL CLOCKS ON BASEMENT, 1ST, & 2ND FLOORS ON COMMON CIRCUIT TO C/B JUNCTION BOX LOCATED IN ELECTRICAL EQUIPMENT ROOM IN BASEMENT. ROUTE ALL CLOCKS TO CIRCUIT LP-A-18.
3. FOR WIRING OF FIRE ALARM SYSTEM AND COMPONENTS SEE FIRE ALARM RISER DIAGRAM ON SHEET E-19.
4. CONTRACTOR TO ROUTE CONDUIT AS REQUIRED. FOR CONDUCTORS & CONDUIT SIZES SEE DWG. E-23 (TYP.)

BASEMENT FLOOR PLAN

1/8" = 1'-0"

BLDG. NORTH

5. FOR PANELS PP-6X PP-7X PP-8X ROUTE CONDUITS THROUGH VERTICAL CHASE IN ELECTRICAL CLOSETS (SEE DWGS. E4 & E-10)
6. PROVIDE RED MUSHROOM PUSH BUTTON (MOMENTARY CONTACT) STATION FOR POWER PANELS SHUNT TRIP. (3/4"C. 2 #14, 1 #12 GND - TYPICAL) MTG HT 72" AFF PROVIDE CLEAR, PLASTIC HINGED SAFETY COVER BOX ENCLOSING PUSHBUTTON STATION.
7. MOUNT RECEPTACLE 7'-0" AFF FROM FLEX CONDUIT THRU CEILING
8. TRANSFER LOADS FROM CKT'S 2,4,6 FROM EXISTING PANEL COMP-1 TO CKT'S 31, 33, 35 IN PANEL PP-1X



MACHINE BAY POWER STATION DETAIL (TYPICAL OF 7)

NO SCALE

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

STATE OF KENTUCKY — HERBERT R. NICHOLS — 14967

871016

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
10.19.87

BASEMENT FLOOR POWER PLAN

Sherman-Carter-Barnhart
PARTNERS IN ARCHITECTURE
SUITE 900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606-254-1351

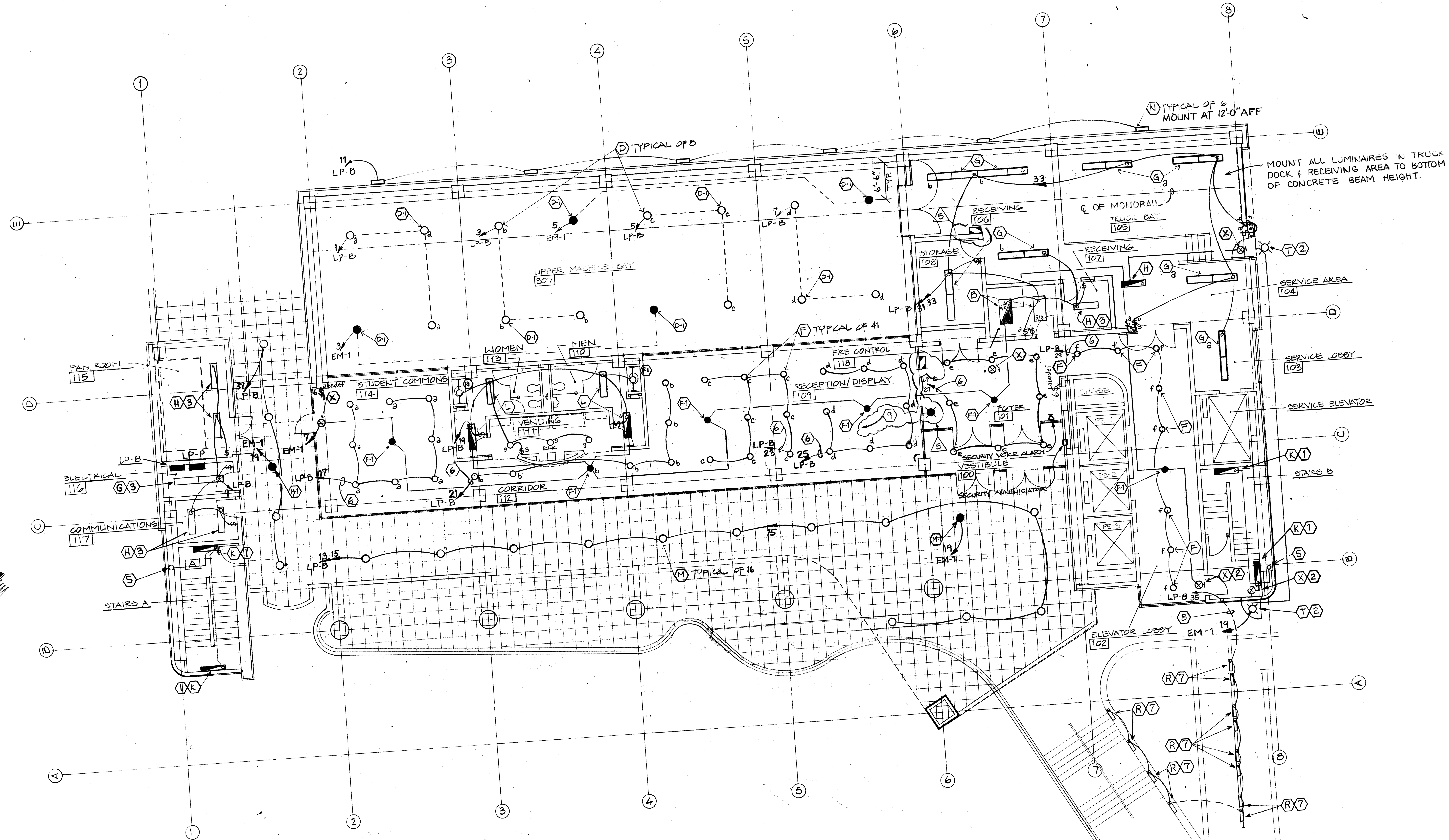
JOB NO.	8706
DATE	9-30-87
DRAWN	D. MEYER
CHECKED	M. GOLDBERG
FILE NO.	431.0

REVISIONS
3-90% REVIEW 10-16-87
4-GENERAL 7-18-88
5-[illegible] 2-16-9[illegible]

AS BUILT

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CE-002-4

SHEET
E•2



FIRST FLOOR PLAN

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

FIRST FLOOR LIGHTING PLAN DRAWING NOTES

1 MOUNT LUMINAIRE 7'- 6" AFF
2 MOUNT LUMINAIRE ABOVE DOOR WAY
3 CHAIN SUSPEND LUMINAIRE FROM CEILING CONSTRUCTION TO 9'- 0" AFF
4 NOT USED
5 STAIRWAY LIGHTING POWER RISER. ROUTE UP TO SECOND FLOOR. SEE SECOND FLOOR LIGHTING PLAN.
6 ROUTE TO CIRCUIT INDICATED VIA SWITCHING BANK. CONNECT TO SWITCH INDICATED.
7 MOUNT LUMINAIRE 2'-6" ABOVE CONCRETE.
8 ROUTE FEEDER UNDER PAVED WALKWAY AND TURN UP IN WALL TO ABOVE CEILING SPACE FOR HOMERUN BACK TO PANEL.
9 INSTALLER TO PROVIDE MOTION DETECTORS AS REQUIRED. IN SECURED ROOM

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

STATE OF KENTUCKY HERBERT R. NICHOLS 871013

ROBOTICS FACILITY

LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by director - design and construction division

10·19·87 date

FIRST FLOOR LIGHTING PLAN

Sherman·Carter·Barnhart

ARCHITECTURE

JOB NO. 8706
DATE 9-30-
DRAWN D. ME
CHECKED M. GO
UK FILE NO 431.0

REVISIONS
3-90% REVIEW
4-GENERAL
5-RENOVATION

SHEET

E•

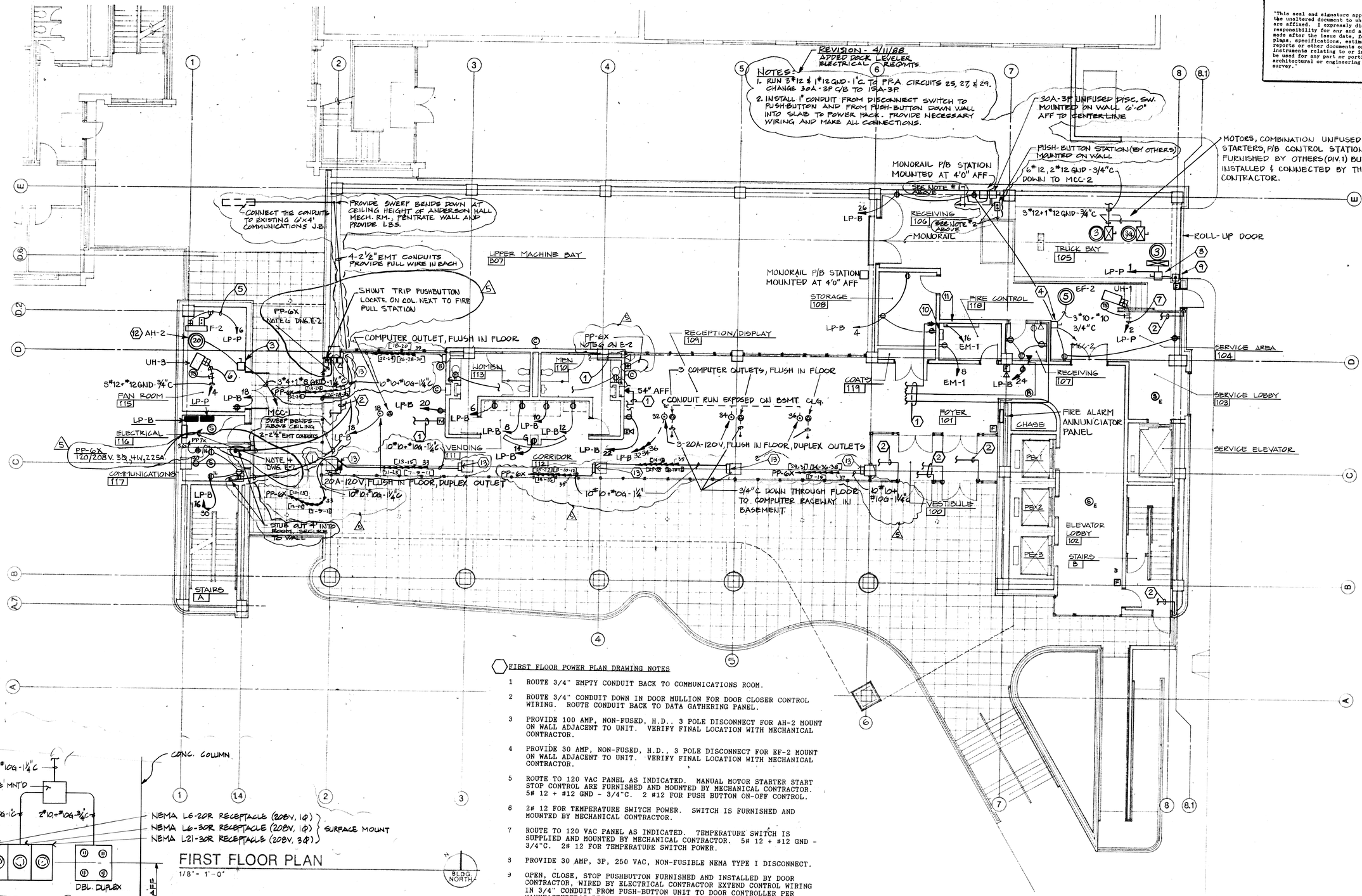
AS BUILT

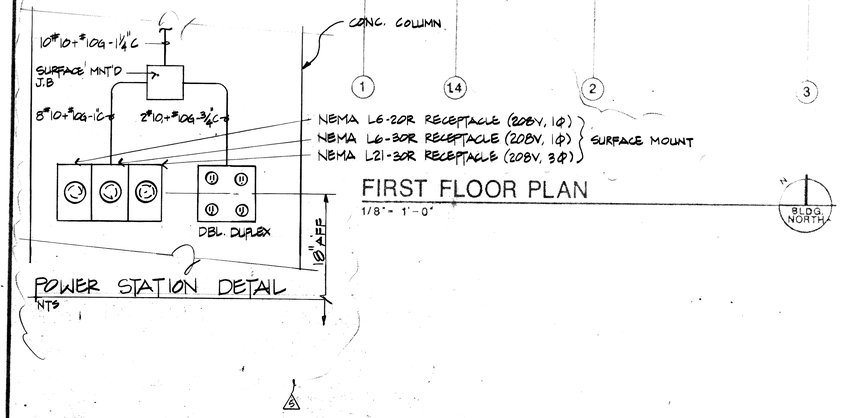
3-1-91

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242

NUMBER: 4361 CE-003-4

NORTH





FIRST FLOOR PLAN

1/8" = 1'-0"

BLDG. NORTH

FIRST FLOOR POWER PLAN DRAWING NOTES

1 ROUTE 3/4" EMPTY CONDUIT BACK TO COMMUNICATIONS ROOM.

2 ROUTE 3/4" CONDUIT DOWN IN DOOR MULLION FOR DOOR CLOSER CONTROL WIRING. ROUTE CONDUIT BACK TO DATA GATHERING PANEL.

3 PROVIDE 100 AMP, NON-FUSED, H.D., 3 POLE DISCONNECT FOR AH-2 MOUNT ON WALL ADJACENT TO UNIT. VERIFY FINAL LOCATION WITH MECHANICAL CONTRACTOR.

4 PROVIDE 30 AMP, NON-FUSED, H.D., 3 POLE DISCONNECT FOR EF-2 MOUNT ON WALL ADJACENT TO UNIT. VERIFY FINAL LOCATION WITH MECHANICAL CONTRACTOR.

5 ROUTE TO 120 VAC PANEL AS INDICATED. MANUAL MOTOR STARTER START STOP CONTROL ARE FURNISHED AND MOUNTED BY MECHANICAL CONTRACTOR. 5# 12 + #12 GND - 3/4"C. 2 #12 FOR PUSH BUTTON ON-OFF CONTROL.

6 2# 12 FOR TEMPERATURE SWITCH POWER. SWITCH IS FURNISHED AND MOUNTED BY MECHANICAL CONTRACTOR.

7 ROUTE TO 120 VAC PANEL AS INDICATED. TEMPERATURE SWITCH IS SUPPLIED AND MOUNTED BY MECHANICAL CONTRACTOR. 5# 12 + #12 GND - 3/4"C. 2# 12 FOR TEMPERATURE SWITCH POWER.

8 PROVIDE 30 AMP, 3P, 250 VAC, NON-FUSIBLE NEMA TYPE I DISCONNECT.

9 OPEN, CLOSE, STOP PUSHBUTTON FURNISHED AND INSTALLED BY DOOR CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR EXTEND CONTROL WIRING IN 3/4" CONDUIT FROM PUSH-BUTTON UNIT TO DOOR CONTROLLER PER MANUFACTURER'S RECOMMENDATIONS.

10 ELEVATOR FIRE ALARM ANNUNCIATOR LOCATION. UNIT TO BE SUPPLIED BY ELEVATOR CONTRACTOR.

11 FIRE ALARM CONTROL PANEL LOCATION.

12 ELECTRICAL CONTRACTOR SHALL FURNISH AND WIRE DUCT MOUNTED SMOKE DETECTOR (1 IN SUPPLY, 1 IN RETURN) FOR AH-2. SEE FIRE ALARM RISER. DETECTORS ARE MOUNTED BY MECHANICAL CONTRACTOR.

B POWER STATION LOCATION, SEE DETAIL THIS SHEET.

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

STATE OF KENTUCKY HERBERT R. NICHOLS 14967 REGISTERED PROFESSIONAL ENGINEER

871013

ROBOTICS FACILITY

LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

10.19.87

FIRST FLOOR POWER PLAN

Herman · Carter · Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606-254-1351

JOB NO.	8706
DATE	9-30-87
DRAWN	D. MEYER
CHECKED	N. GOLDBERG
FILE NO.	431.0

REVISIONS		
3- 90% REVIEW	10-16-87	
4- GENERAL	7-15-88	
5- RENOVATION	2-16-90	

SHEET

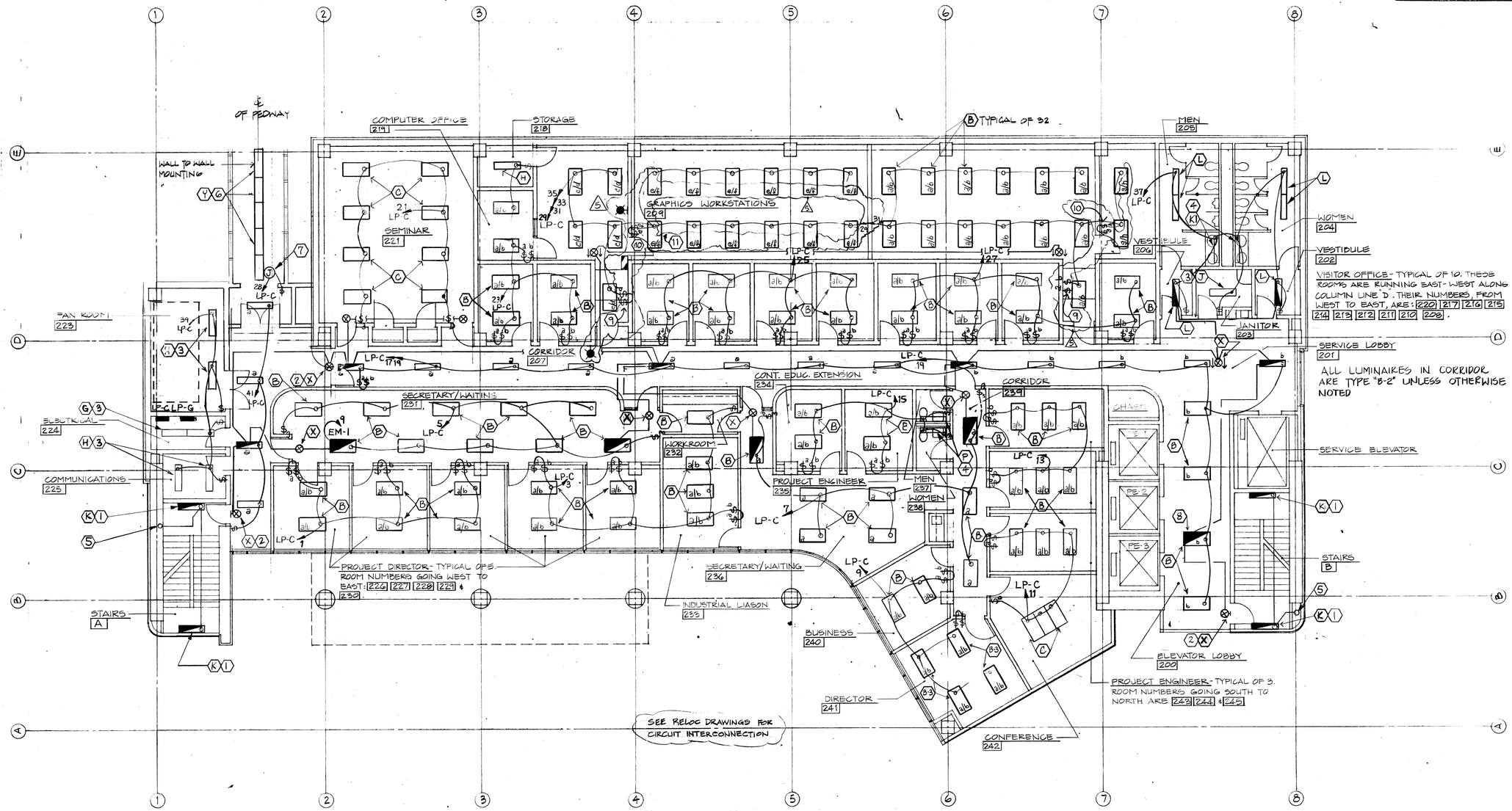
E•4

AS BUILT
3-1-91

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CE-004-4

NORTH

Cab # 83 Slot B-1 Document # 004970



SECOND FLOOR PLAN

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

SECOND FLOOR LIGHTING PLAN DRAWING NOTES

1. MOUNT LUMINAIRE 7'-6" AFF.
2. MOUNT LUMINAIRE ABOVE DOORWAY.
3. CHAIN SUSPEND LUMINAIRE FROM CEILING CONSTRUCTION TO 9'-0" AFF.
4. MOUNT LUMINAIRE DIRECTLY ABOVE MIRROR.
5. STAIRWELL LIGHTING POWER RISER ROUTE UP TO THIRD FLOOR. SEE THIRD FLOOR LIGHTING PLAN.
6. MOUNT AIRCRAFT CABLE HANGERS FROM CENTER MULLION FOR LUMINAIRE MOUNTING.
7. DROP FEED FOR LUMINAIRES DOWN IN WALL AND FEED TO END OF LUMINAIRE FOR END FEED. PROVIDE JUNCTION BOX FOR END FEED. VERIFY MOUNTING HEIGHT OF LUMINAIRES PRIOR TO ROUGH-IN OF POWER.
8. JONNECT EMERGENCY BALLAST MOUNTED IN LUMINAIRE TO LINE AHEAD OF ALL SWITCHING.
9. REMOVE 4 EXISTING 3-WAY SWITCHES AND REPLACE WITH 2 NEW SINGLE POLE SWITCHES. REWIRE EXISTING LUMINAIRES FROM NEW SWITCHES TO PROVIDE SWITCHING SCHEME SHOWN.
10. PROVIDE 2 NEW SINGLE POLE SWITCHES IN EXISTING LIGHTING CIRCUIT TO PROVIDE SWITCHING SCHEME AS SHOWN.

NOTES: (CONT.)

11 INSTALLER TO PROVIDE MOTION DETECTORS AS REQ'D. IN SECURED ROOM

AS BUILT 3-1-91

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361 CE-005-4

NORTH

STATE OF KENTUCKY — HERBERT — 871016

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved 10-19-87
director - design and construction division
date

2ND FLOOR LIGHTING PLAN

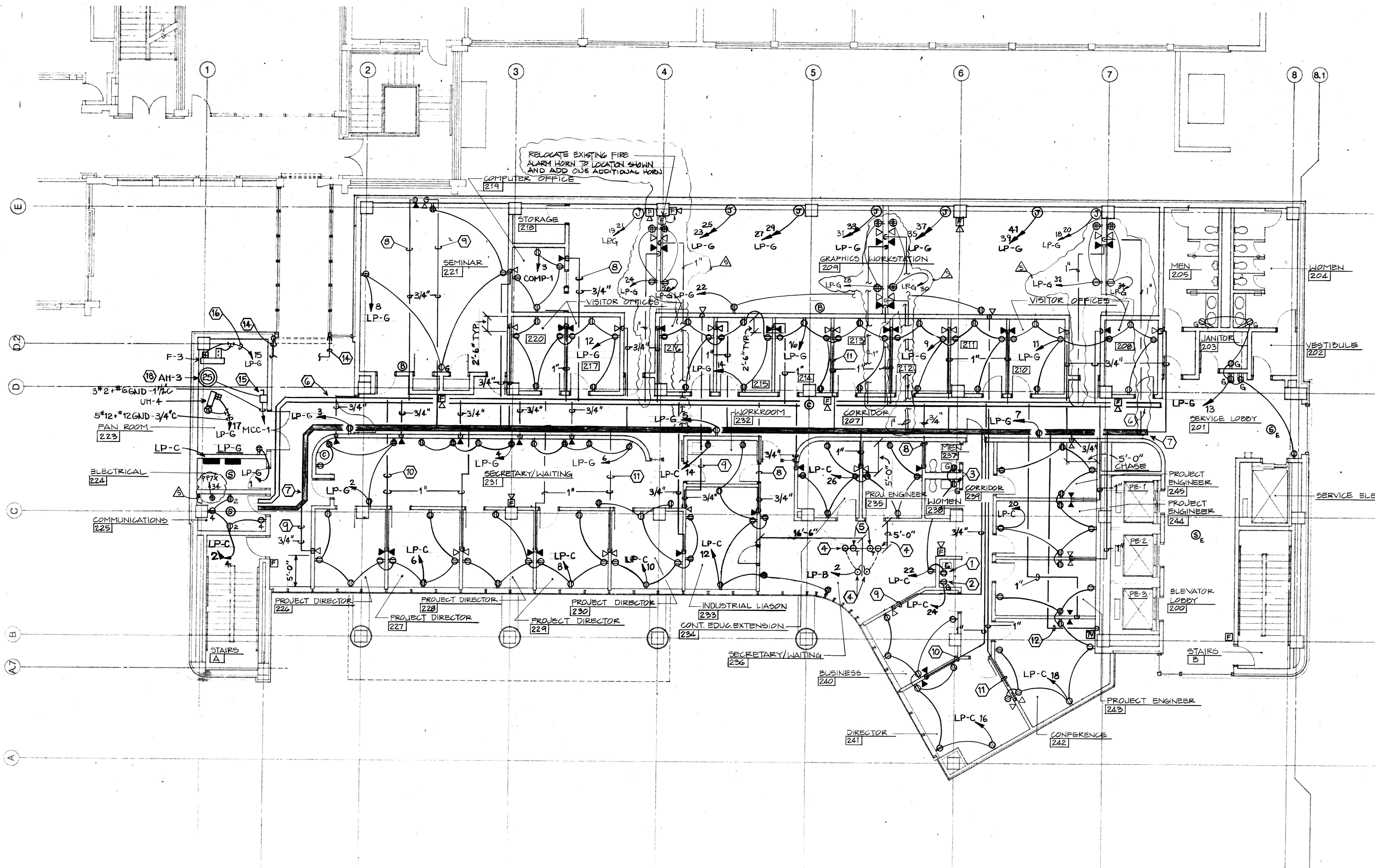
Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606 254-1351

JOB NO. 8706
DATE 9-30-87
DRAWN D. MEYER
CHECKED M. GOLDBERG
UK FILE NO 4361.0

REVISIONS
3-90% REVIEW 10-16-87
4-GENERAL 7-18-88
5-RENOVATION 2-16-90

SHEET E•5

Cab # 83 Slot B-1 Document # 043971



"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

STATE OF KENTUCKY · HERBERT R. NICHOLS 14967 · REGISTERED · 871016

NOTE:
SEE SHEET E-21 FOR DRAWING NOTES

SECOND FLOOR PLAN
1/8" = 1'-0"

ROBOTICS FACILITY

LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

10.19.87

2ND FLOOR POWER PLAN

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606-254-1351

JOB NO.	8706
DATE	9-30-87
DRAWN	D. MEYER
CHECKED	M. GOLDBERG
FILE NO.	431.0

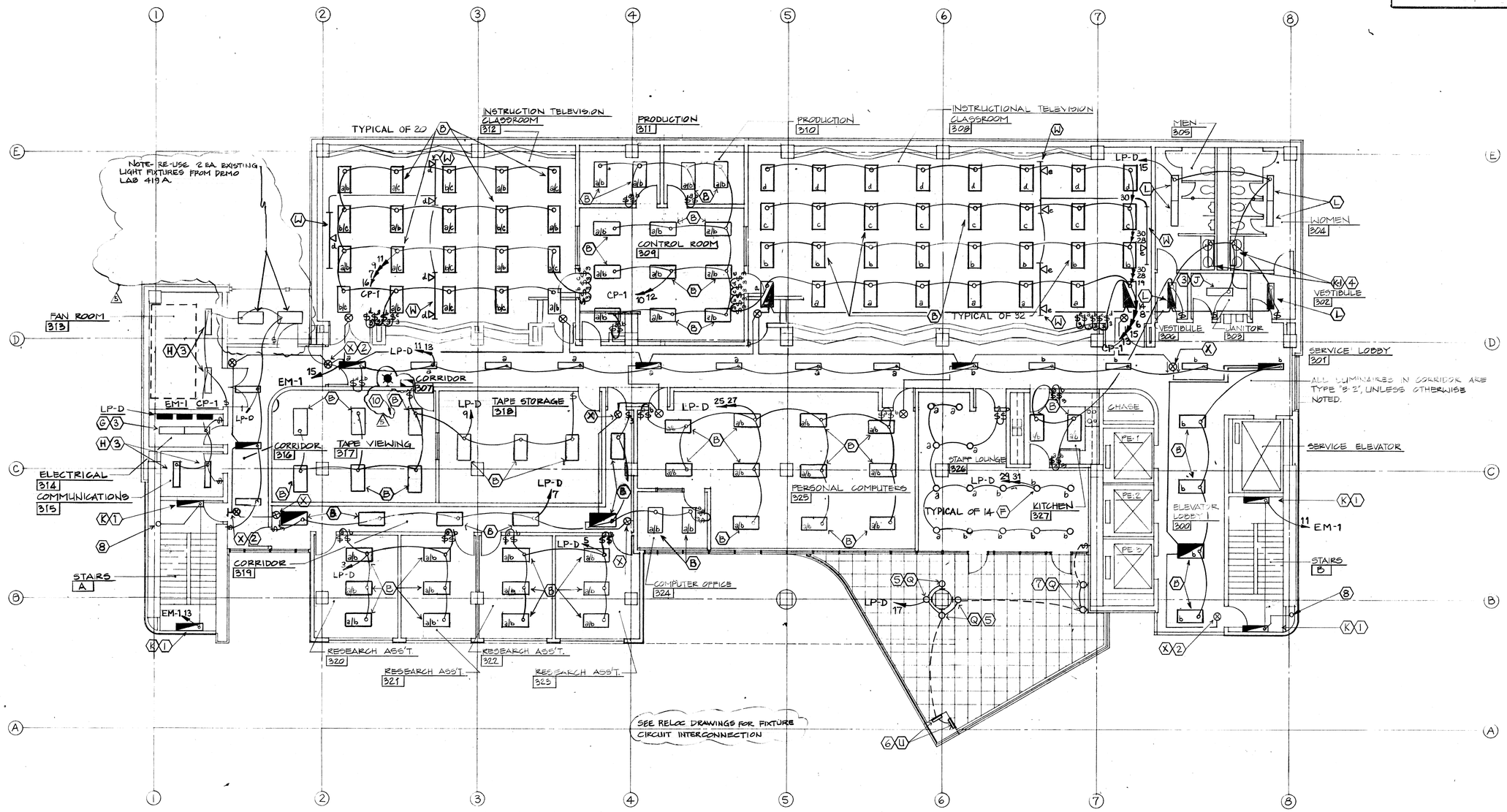
REVISIONS
3-90% REVIEW 10-16-87
4- GENERAL 7-18-88
5-RENOVATION 2-16-90

AS BUILT
3-1-91

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CE-006-A

SHEET
E•6

Cab # 83 Slot B-1 Document # 004972



THIRD FLOOR PLAN

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

THIRD FLOOR LIGHTING PLAN DRAWING NOTES

1. MOUNT LUMINAIRE 7'-6" AFF.
2. MOUNT LUMINAIRE ABOVE DOORWAY.
3. CHAIN SUSPEND LUMINAIRE FROM CEILING CONSTRUCTION TO 9'-0 AFF.
4. MOUNT LUMINAIRE DIRECTLY ABOVE MIRROR.
5. MOUNT LUMINAIRE ON COLUMN 6'-6" AFF.
6. MOUNT LUMINAIRE 3'-0" AFF IN COLUMN.
7. MOUNT LUMINAIRE 6'-6" AFF ON WALL.
8. STAIRWELL LIGHTING POWER RISER. ROUTE UP TO FOURTH FLOOR STAIRS. SEE FOURTH FLOOR LIGHTING PLAN FOR CONTINUATION.
9. CONNECT EMERGENCY BALLAST MOUNTED IN LUMINAIRE TO LINE AHEAD OF ALL SWITCHING.
10. INSTALLER TO PROVIDE MOTION DETECTORS AS REQ'D IN SECURED ROOM (5)

AS BUILT
3-1-91

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361 CE-007-4

NORTH

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved by
director - design and construction division
10/19/87
date

3RD FLOOR LIGHTING PLAN

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606/254-1351

JOB NO.	8706
DATE	9-30-87
DRAWN	D. MEYER
CHECKED	M. GOLDBERG
UK FILE NO	4310

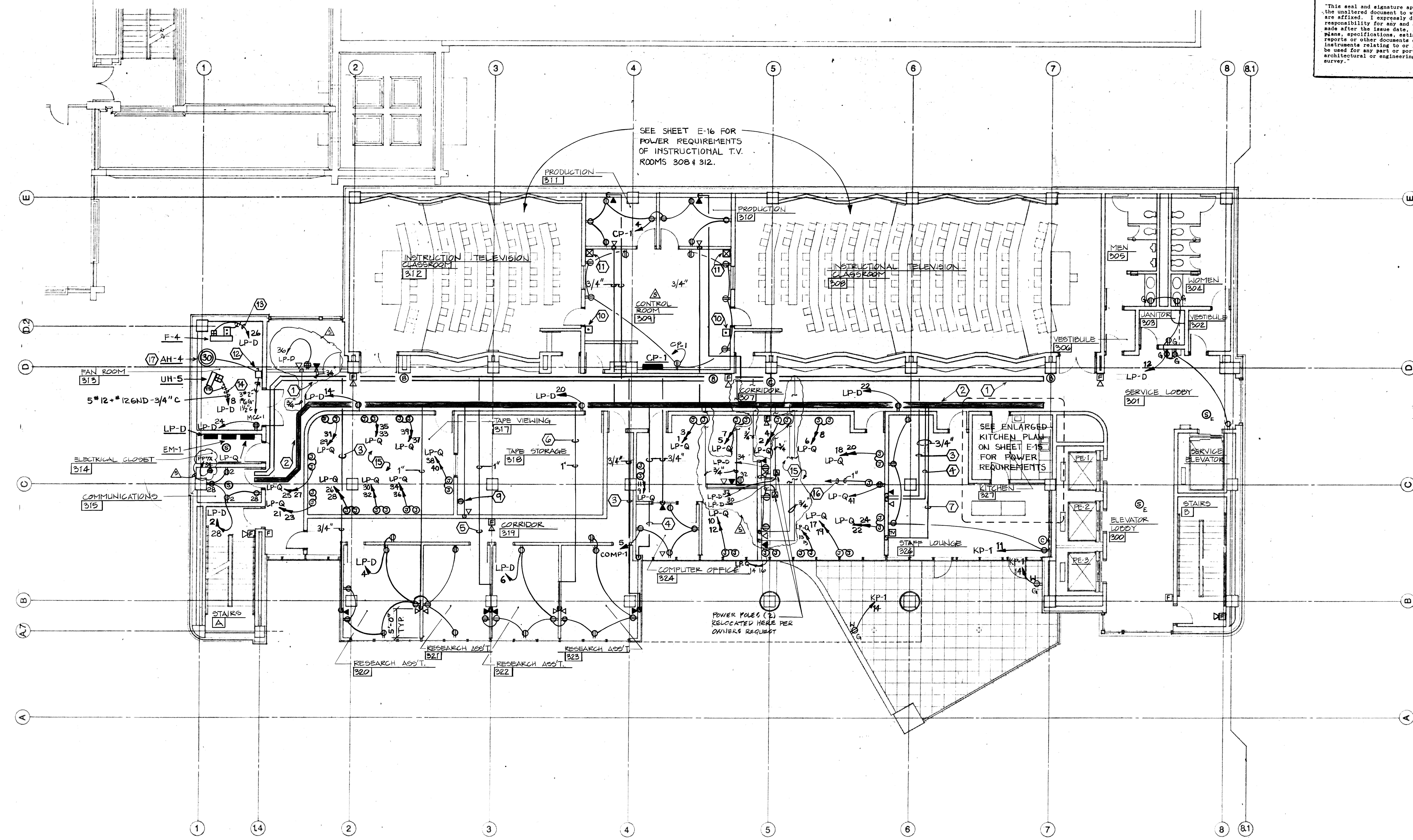
REVISIONS
3- 90% REVIEW 10-16-87
4- GENERAL 7-18-88
5- RENOVATION 2-16-90

SHEET
E•7

Cab # 83 Slot B-1 Document # 004973

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

871016



NOTE:

SEE SHEET E-21 FOR DRAWING NOTES

THIRD FLOOR PLAN

1/8" = 1'-0"

BLDG. NORTH

1. ROUTE ALL PROGRAMMED BELLS ON 3RD, 4TH, & 5TH FLOORS ON COMMON CIRCUIT TO C/B JUNCTION BOX LOCATED IN ELECTRICAL EQUIPMENT ROOM IN BASEMENT. ROUTE BELLS TO CIRCUIT LP-D-16.

2. ROUTE ALL CLOCKS ON 3RD, 4TH, & 5TH FLOORS ON COMMON CIRCUIT TO C/B JUNCTION BOX LOCATED IN ELECTRICAL EQUIPMENT ROOM IN BASEMENT. ROUTE CLOCKS TO CIRCUIT LP-D-18.

AS BUILT
3-1-91

NORTH

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CE-008-4

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved — director design and construction division — date 10.19.87

3RD FLOOR POWER PLAN

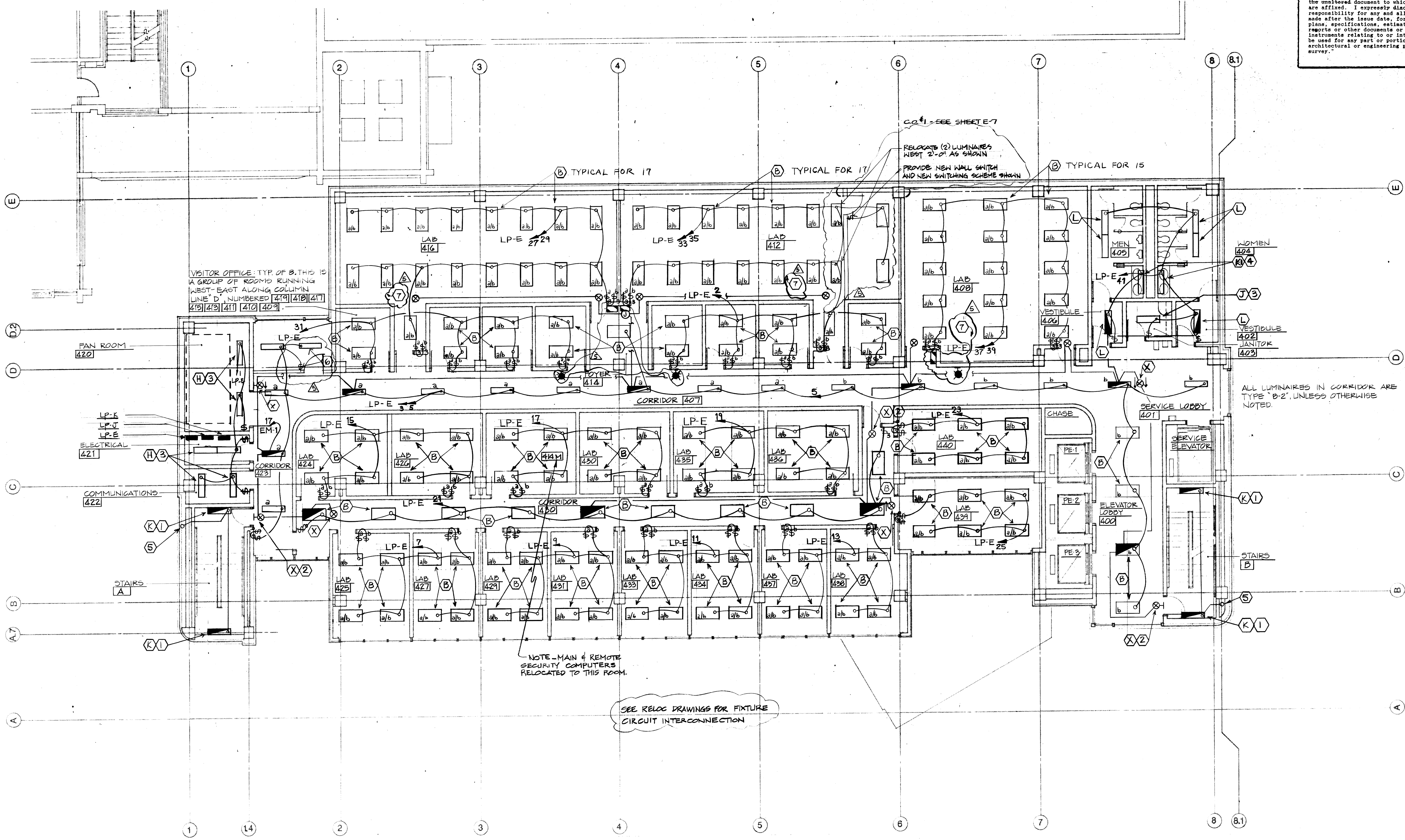
Sherman-Carter-Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606 254-1351

JOB NO.	8706
DATE	9-30-87
DRAWN	D. MEYER
CHECKED	M. GOLDBERG
FILE NO.	431.0

REVISIONS
3- 90% REVIEW 10-16-87
4- GENERAL 7-18-88
5- RENOVATION 2-16-90

SHEET
E•8

Cab # 83 Slot B-1 Document # 004974



"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

871016

FOURTH FLOOR PLAN

1/8" = 1'-0"

BLDG. NORTH

FOURTH FLOOR LIGHTING PLAN DRAWING NOTES

1. MOUNT LUMINAIRE 7'-6" AFF.
2. MOUNT LUMINAIRE ABOVE DOORWAY.
3. CHAIN SUSPEND LUMINAIRE FROM CEILING CONSTRUCTION TO 9'-0" AFF.
4. MOUNT LUMINAIRE DIRECTLY ABOVE MIRROR.
5. STAIRWELL LIGHTING POWER RISER. ROUTE UP TO FIFTH FLOOR. SEE FIFTH FLOOR LIGHTING PLAN FOR CONTINUATION.
6. RELOCATE EXISTING LUMINAIRE FROM 3RD FLOOR SAME AREA AND ADD NEW WALL SWITCH IN NEW WALL.
7. INSTALLER TO PROVIDE MOTION DETECTORS AS REQ'D IN SECURED ROOM

5

ROBOTICS FACILITY

LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

10.19.87

4TH FLOOR LIGHTING PLAN

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606-254-1351

JOB NO. 8706
DATE 9-30-87
DRAWN D. MEYER
CHECKED M. GOLDBERG
FILE NO. 431.0

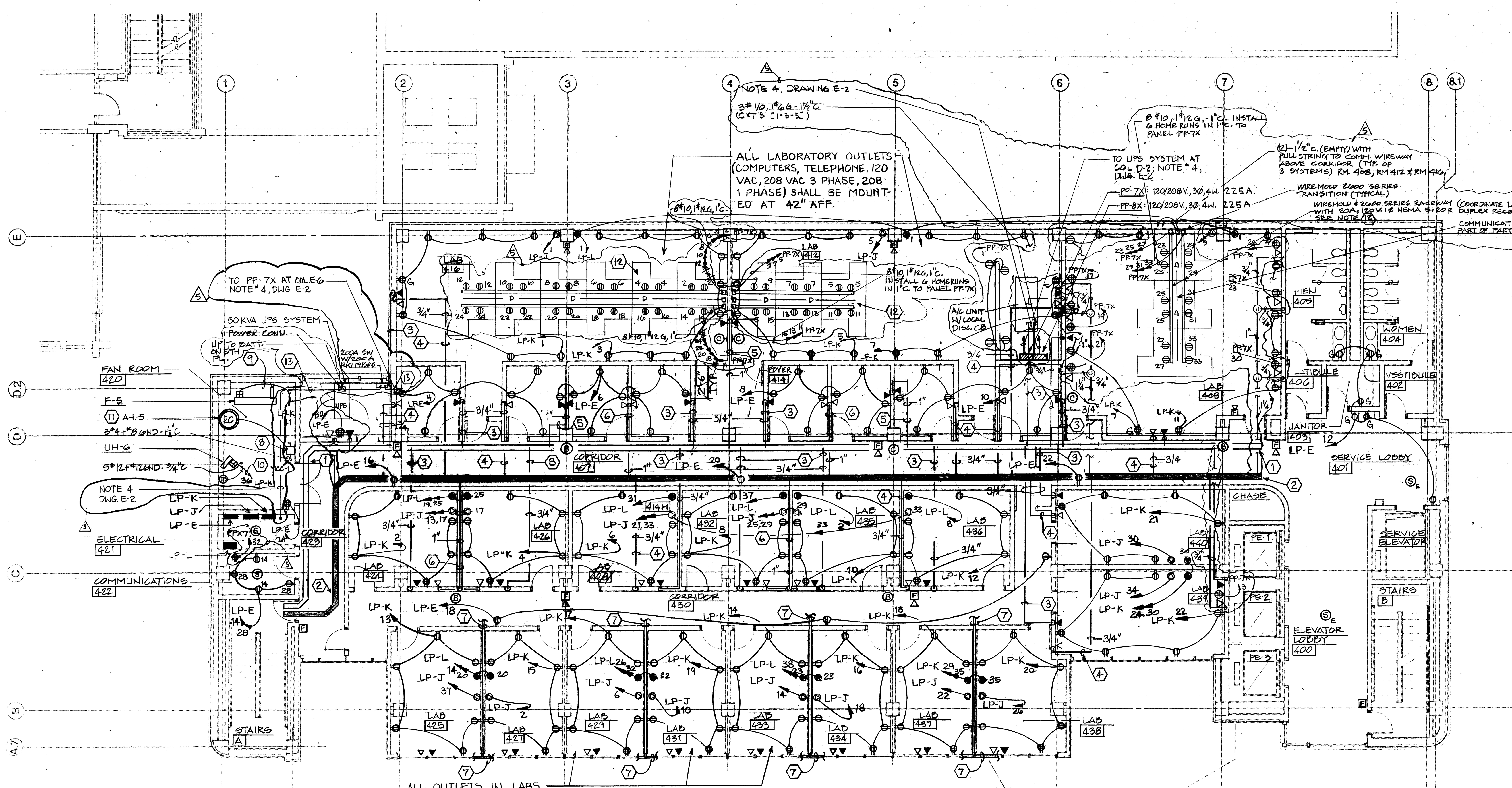
REVISIONS
3 - 90% REVIEW 10-16-87
4 - GENERAL 7-18-88
5 - RENOVATION 2-16-90

AS BUILT
3-1-91

NORTH

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CE-009-4

SHEET
E•9



FOURTH FLOOR PLAN

1/8" = 1'-0"

BLDG. NORTH

FOURTH FLOOR POWER PLAN NOTES

1. 8" X 8" WIREWAY MOUNTED ABOVE CEILING FOR TELEPHONE CABLING ONLY. RUN FROM TELEPHONE BOARD IN COMMUNICATIONS ROOM THROUGH CORRIDOR.
2. 8" X 8" WIREWAY MOUNTED ABOVE CEILING FOR COMMUNICATIONS AND COMPUTER CABLING. RUN FROM COMMUNICATIONS ROOM THROUGH CORRIDOR.
3. EXTEND 3/4" EMPTY CONDUIT (WITH PULLSTRING) FROM WIREWAY IN CORRIDOR TO TELEPHONE OUTLET. ROUTE CONDUIT ABOVE CEILING AND DOWN IN WALL. TYPICAL FOR SINGLE TELEPHONE OUTLET.
4. EXTEND 3/4" EMPTY CONDUIT (WITH PULLSTRING) FROM WIREWAY IN CORRIDOR TO COMPUTER OUTLET. ROUTE CONDUIT ABOVE CEILING AND DOWN IN WALL. TYPICAL FOR SINGLE COMPUTER OUTLET.
5. EXTEND 1" EMPTY CONDUIT (WITH PULLSTRING) FROM WIREWAY IN CORRIDOR TO (2) TELEPHONE OUTLETS. ROUTE CONDUIT ABOVE CEILING AND DOWN IN WALL TO OUTLETS. TYPICAL FOR DOUBLE TELEPHONE OUTLETS.
6. EXTEND 1" EMPTY CONDUIT (WITH PULLSTRING) FROM WIREWAY IN CORRIDOR TO (2) COMPUTER OUTLETS. ROUTE CONDUIT ABOVE CEILING AND DOWN IN WALL TO OUTLETS. TYPICAL FOR DOUBLE COMPUTER OUTLETS.
7. (2) 1" CONDUIT ((1) TELEPHONE; (1) COMPUTER) FROM WIREWAYS IN MAIN CORRIDOR ROUTED IN CEILING SPACE. TURN DOWN IN WALL AND ROUTE TO WINDOW WALL. ROUTE 18" ABOVE FINISHED FLOOR TO OUTLETS ON WINDOW WALL AS SHOWN.
8. PROVIDE 250 VAC, 100 AMP, NON-FUSED, H.D., 3 POLE, DISCONNECT FOR AH-5. MOUNT DISCONNECT ON WALL ADJACENT TO UNIT. VERIFY FINAL LOCATION WITH MECHANICAL CONTRACTOR.
9. ROUTE 5# 12 + #12 GND TO 120 VAC PANEL INDICATED FOR ROLL FILTER F-5. MANUAL MOTOR STARTER AND START-STOP BUTTON FURNISHED AND MOUNTED BY MECHANICAL CONTRACTOR. 2# 12 FOR START-STOP BUTTON POWER.
10. 2# 12 TO BE FOR TEMPERATURE SWITCH POWER. TEMPERATURE SWITCH IS SUPPLIED AND MOUNTED BY MECHANICAL CONTRACTOR.
11. ELECTRICAL CONTRACTOR SHALL FURNISH AND WIRE DUCT MOUNTED SMOKE DETECTOR (1 IN SUPPLY, 1 IN RETURN) FOR AH-5. SEE FIRE ALARM RISER DIAGRAM. DETECTORS ARE MOUNTED BY MECHANICAL CONTRACTOR.
12. DO NOT WIRE RECEPTACLES IN PARTITION SYSTEM, TAPE AND TUCK WIRES INSIDE PARTITION.
13. SEE SINGLE LINE DIAGRAM, DWG. E-23 FOR SIZES OF CONDUIT AND WIRE.

AS BUILT
3-1-91

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CE-010-4

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

871016

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

4TH FLOOR POWER PLAN

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-1351

JOB NO.	8706
DATE	9-30-87
DRAWN	D. MEYER
CHECKED	M. GOLDBERG
FILE NO.	431.0

REVISIONS
3-90% REVIEW 10-16-87
4-GENERAL 7-18-88
5-RENOVATION 2-16-90

SHEET
E-10

FIFTH FLOOR PLAN

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

FIFTH FLOOR LIGHTING PLAN NOTES

1. MOUNT LUMINAIRE 7'-6" AFF.
2. MOUNT LUMINAIRE ABOVE DOORWAY.
3. CHAIN SUSPEND LUMINAIRE FROM CEILING CONSTRUCTION TO 9'-0" AFF.
4. MOUNT LUMINAIRE DIRECTLY ABOVE MIRROR.
5. STAIRWELL LIGHTING POWER RISER. ROUTE DOWN TO FOURTH FLOOR. SEE FOURTH FLOOR LIGHTING PLAN FOR CONTINUATION.
6. STAIRWELL LIGHTING POWER RISER. ROUTE UP TO PENTHOUSE. SEE PENTHOUSE LIGHTING PLAN FOR CONTINUATION.
7. MOUNT PHOTOCELL ON WEST FACE OF VAV ROOM. FOR CONTROL OF EMERGENCY LIGHTING CIRCUIT. SEE EXTERIOR EMERGENCY LIGHTING DIAGRAM.
8. RELOCATE EXISTING LUMINAIRE FROM 3RD FLOOR, SAME AREA AND ADD NEW WALL SWITCH IN NEW WALL

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

Herbert Michel
870106

ROBOTICS FACILITY

LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

APPROVED BY: director - design and construction division
DATE: 10.19.87

5TH FLOOR LIGHTING PLAN

Herman Carter Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606 254-1251

JOB NO. 8706
DATE 9-30-87
DRAWN D. MEYER
CHECKED M. GOLDBERG
UK FILE NO 431.0

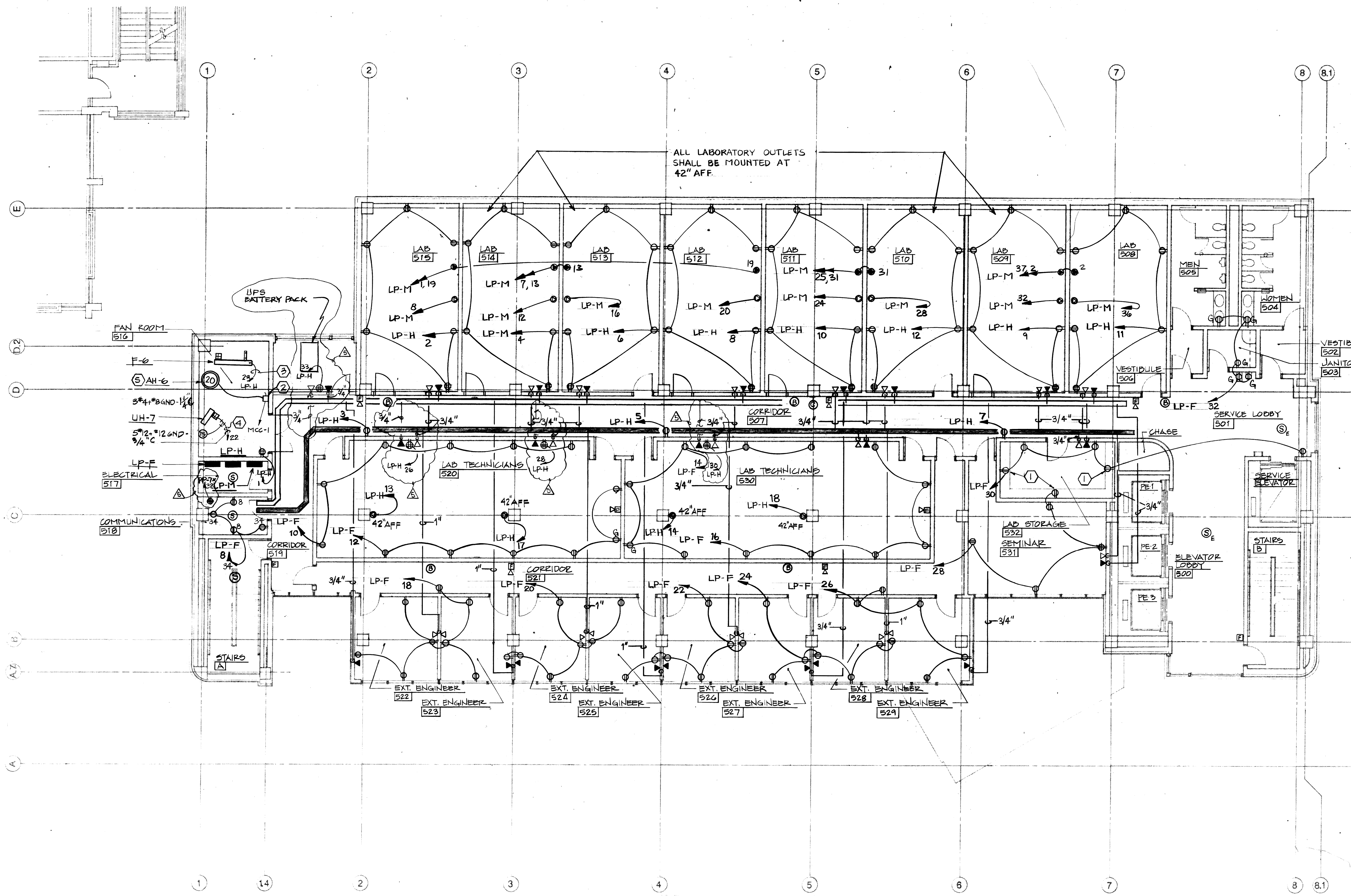
REVISIONS
3-90% REVIEW 10-16-87
4- GENERAL 7-18-88
5- RENOVATION 2-16-90

SHEET E•11

Cab # 83 Slot B-1 Document # 003977

AS BUILT
3-1-91
BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361 CE-C11-4

NORTH



FIFTH FLOOR PLAN

1/8" = 1'-0"

BLDG. NORTH

FIFTH FLOOR POWER PLAN NOTES

1 MOUNT RECEPTACLE 42" AFF. (ABOVE COUNTER)

2 PROVIDE 250 VAC, 100 AMP, NON-FUSED, H.D. 3 POLE DISCONNECT FOR AH-6. MOUNT DISCONNECT ON WALL ADJACENT TO UNIT. VERIFY FINAL LOCATION WITH MECHANICAL CONTRACTOR.

3 ROUTE 5# 12 + #12 GND - 3/4"C TO 120 VAC PANEL INDICATED FOR ROLL FILTER F-6. MANUAL MOTOR STARTER AND START-STOP BUTTON FURNISHED AND MOUNTED BY MECHANICAL CONTRACTOR. 2# 12 FOR START-STOP BUTTON POWER.

4 ROUTE 2# 12 FOR TEMPERATURE SWITCH. TEMPERATURE SWITCH IS FURNISHED AND MOUNTED BY MECHANICAL CONTRACTOR.

5 ELECTRICAL CONTRACTOR SHALL FURNISH AND WIRE DUCT MOUNTED SMOKE DETECTOR (1 IN SUPPLY, 1 IN RETURN) FOR AH-6 SEE FIRE ALARM RISER DIAGRAM. DETECTORS ARE MOUNTED BY MECHANICAL CONTRACTOR.

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

STATE OF KENTUCKY
HERBERT R. NICHOLS
14967
REGISTERED PROFESSIONAL ENGINEER
871016

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by director - design and construction division, 10-19-87 date

5TH FLOOR POWER PLAN

Sherman · Carter · Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-1351

JOB NO.	8706
DATE	9-30-87
DRAWN	D. MEYER
CHECKED	M. GOLDBERG
FILE NO.	431.0

REVISIONS	
3-90% REVIEW	10-16-87
4-GENERAL	7-18-88
5-RENOVATION	2-16-90

SHEET
E•12

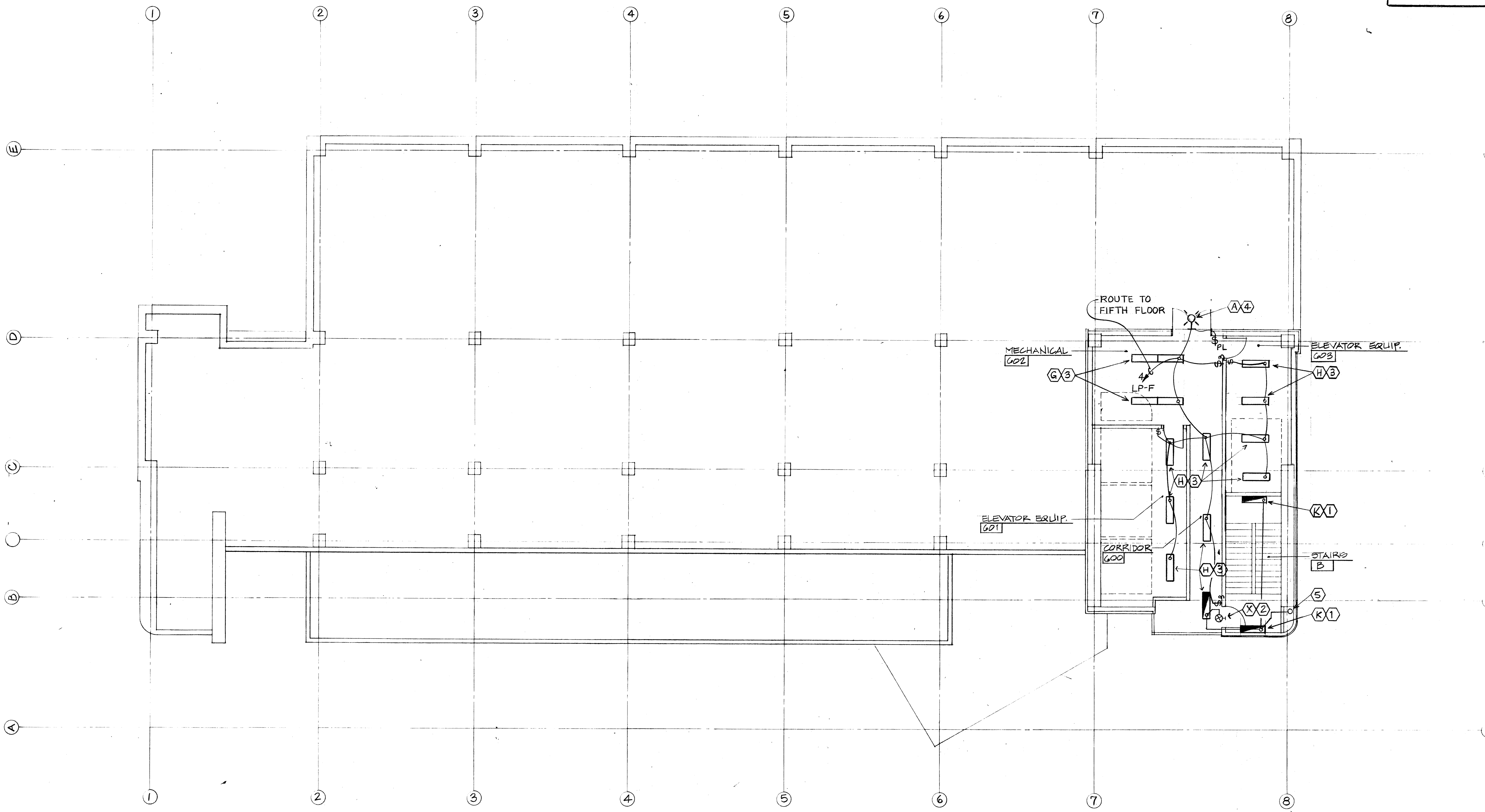
AS BUILT
3-1-91

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CE-012-4

Cab # 83 Slot B-1 Document # 004978

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

871016



PENTHOUSE LIGHTING PLAN DRAWING NOTES

1. MOUNT LUMINAIRE 7'-6" AFF.
2. MOUNT LUMINAIRE ABOVE DOORWAY.
3. CHAIN SUSPEND LUMINAIRE TO 9'-0" AFF.
4. MOUNT LUMINAIRE DIRECTLY ABOVE DOOR.
5. STAIRWELL LIGHTING POWER RISER ROUTE DOWN TO FIFTH FLOOR. SEE FIFTH FLOOR LIGHTING PLAN.

PENTHOUSE PLAN

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

AS BUILT
3-1-91

0099-14

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
10-19-87

PENTHOUSE LIGHTING PLAN

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606-254-1351

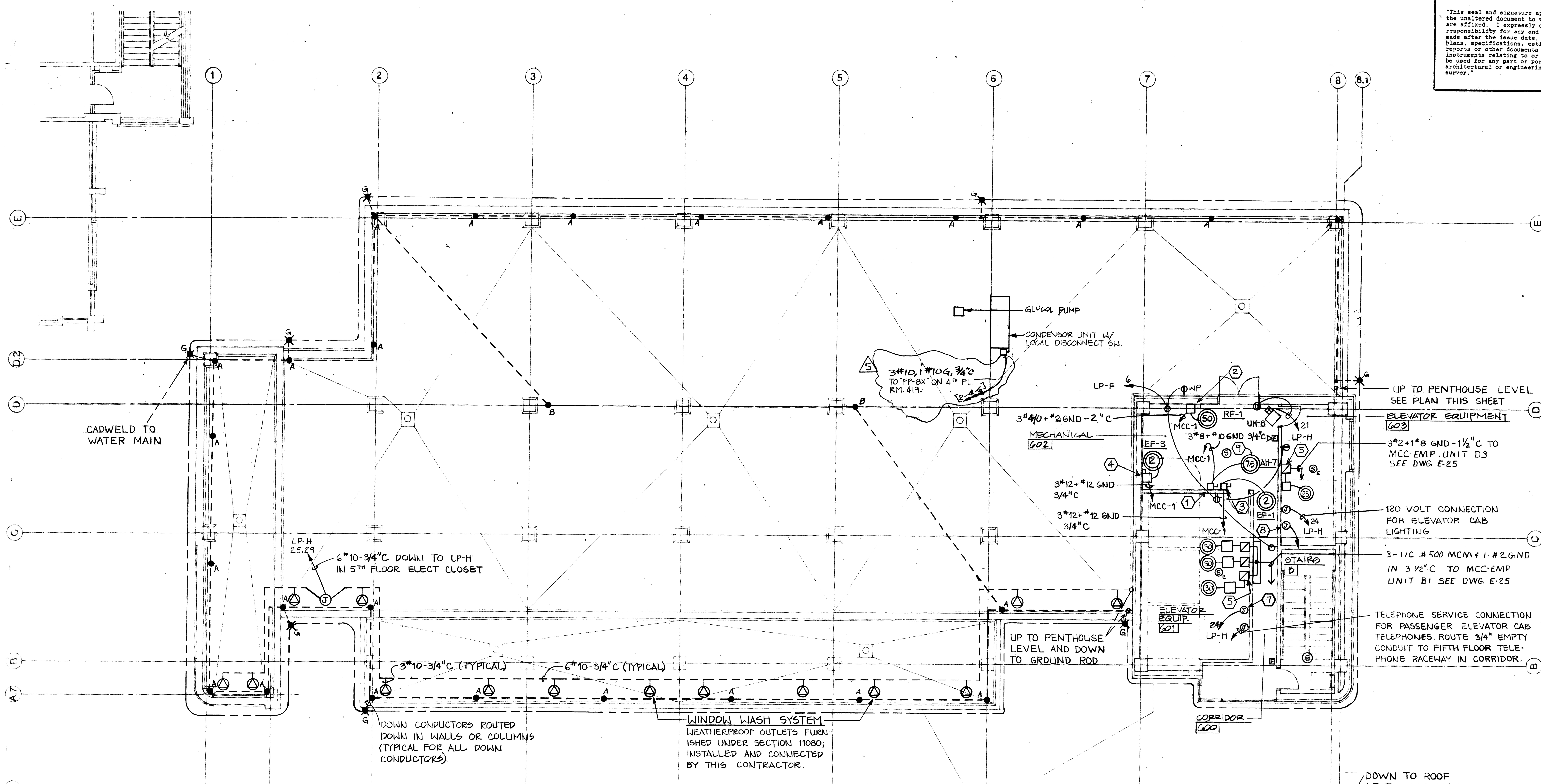
JOB NO 8706
DATE 9-30-87
DRAWN D. MEYER
CHECKED M. GOLDBERG
431.0

REVISIONS
3-90% REVIEW 10-16-87
4-GENERAL 7-18-88

SHEET
E•13

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361 CE-013-4

Document # 004979
Slot B-1
Cab # 83



LEGEND

- •A AIR TERMINAL, PARAPET MOUNTING
- ---- ROOF CABLE
- -·-·- BURIED GROUND CONDUCTOR
- •B AIR TERMINAL, FLAT ROOF MOUNTING
- ✕G GROUND ROD

PENTHOUSE / ROOF PLAN
1/8" = 1'-0"

PENTHOUSE POWER PLAN DRAWING NOTES

1 PROVIDE 250 VAC, 60 AMP, NON-FUSED, H.D., 3 POLE DISCONNECT FOR AH-7. MOUNT DISCONNECT ON WALL ADJACENT TO UNIT. VERIFY FINAL LOCATION WITH MECHANICAL CONTRACTOR.

2 PROVIDE 250 VAC, 200 AMP, NON-FUSED, H.D., 3 POLE DISCONNECT FOR RF-1. MOUNT DISCONNECT ON WALL ADJACENT TO UNIT. VERIFY FINAL LOCATION WITH MECHANICAL CONTRACTOR.

3 PROVIDE 250 VAC, 30 AMP, NON-FUSED, H.D., 3 POLE DISCONNECT FOR EF-1. MOUNT DISCONNECT ON WALL ADJACENT TO UNIT. VERIFY FINAL LOCATION WITH MECHANICAL CONTRACTOR.

4 PROVIDE 250 VAC, 30 AMP, NON-FUSED, H.D., 3 POLE DISCONNECT FOR EF-3. MOUNT DISCONNECT ON WALL ADJACENT TO UNIT. VERIFY FINAL LOCATION WITH MECHANICAL CONTRACTOR.

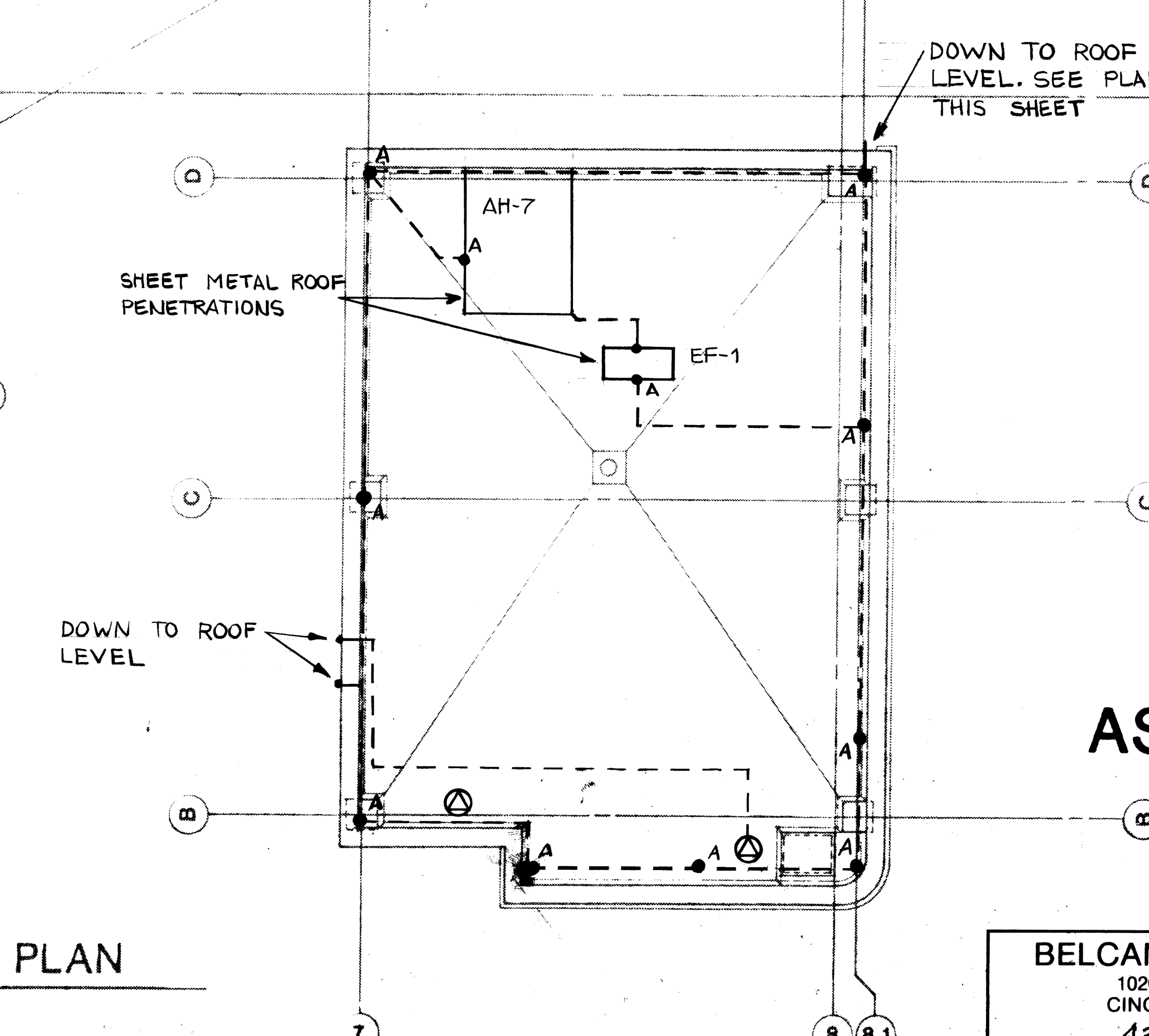
5 INDIVIDUAL FUSED DISCONNECT SWITCH FOR ELEVATORS. SEE ELEVATOR RISER DIAGRAMS ON SHEET E-17.

6

7 120 VOLT CONNECTION FOR ELEVATOR CAB LIGHTING.

8 TELEPHONE SERVICE CONNECTION FOR PASSENGER ELEVATOR CAB TELEPHONES. ROUTE 3/4" EMPTY CONDUIT TO FIFTH FLOOR TELEPHONE RACEWAY IN CORRIDOR.

9 ELECTRICAL CONTRACTOR SHALL FURNISH AND WIRE DUCT MOUNTED SMOKE DETECTOR (1 IN SUPPLY, 1 IN RETURN) FOR AH-7. SEE FIRE ALARM RISER. DETECTORS ARE MOUNTED BY MECHANICAL CONTRACTOR.



PENTHOUSE ROOF PLAN
1/8" = 1'-0"

AS BUILT
3-1-91

NORTH

HERBERT R. NICHOLS
871016

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved: 10-19-87
director · design and construction division

PENTHOUSE POWER PLAN

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 150, 250 WEST MAIN STREET · LEXINGTON, KY 40507 · 606 254-1351

JOB NO.	8706
DATE	9-30-87
DRAWN	D. MEYER
CHECKED	M. GOLDBERG
FILE NO.	451.0

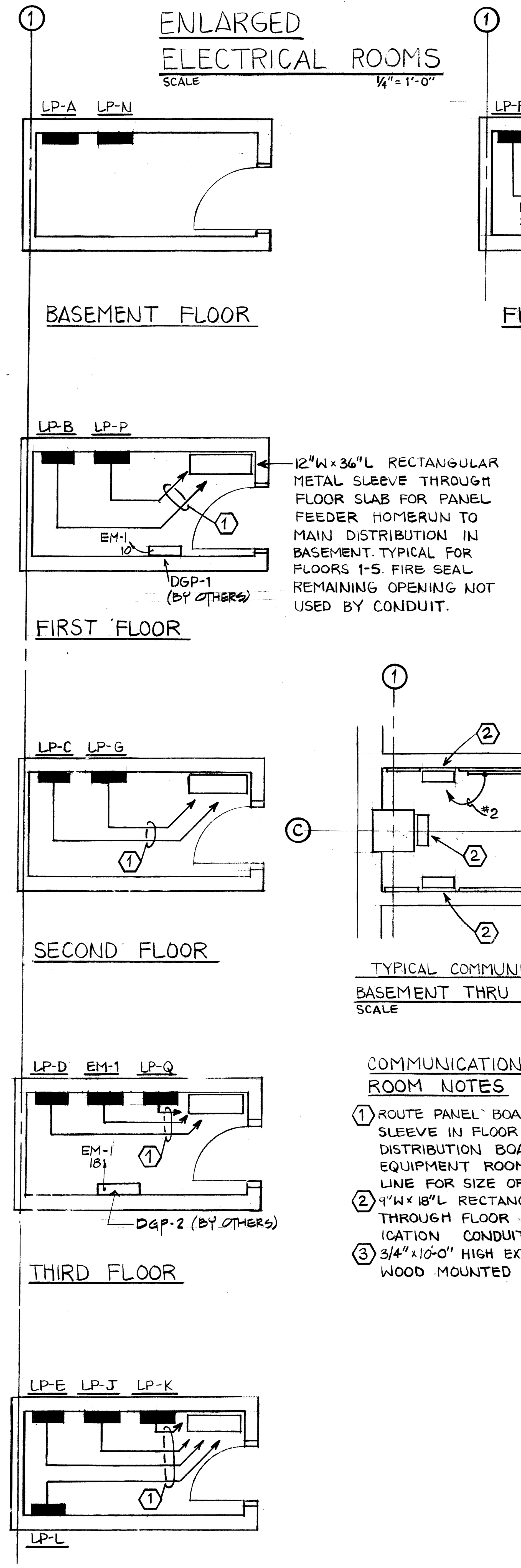
REVISIONS
3-90% REVIEW 10-16-87
4-GENERAL 7-18-88
5-RENOVATION 2-16-90

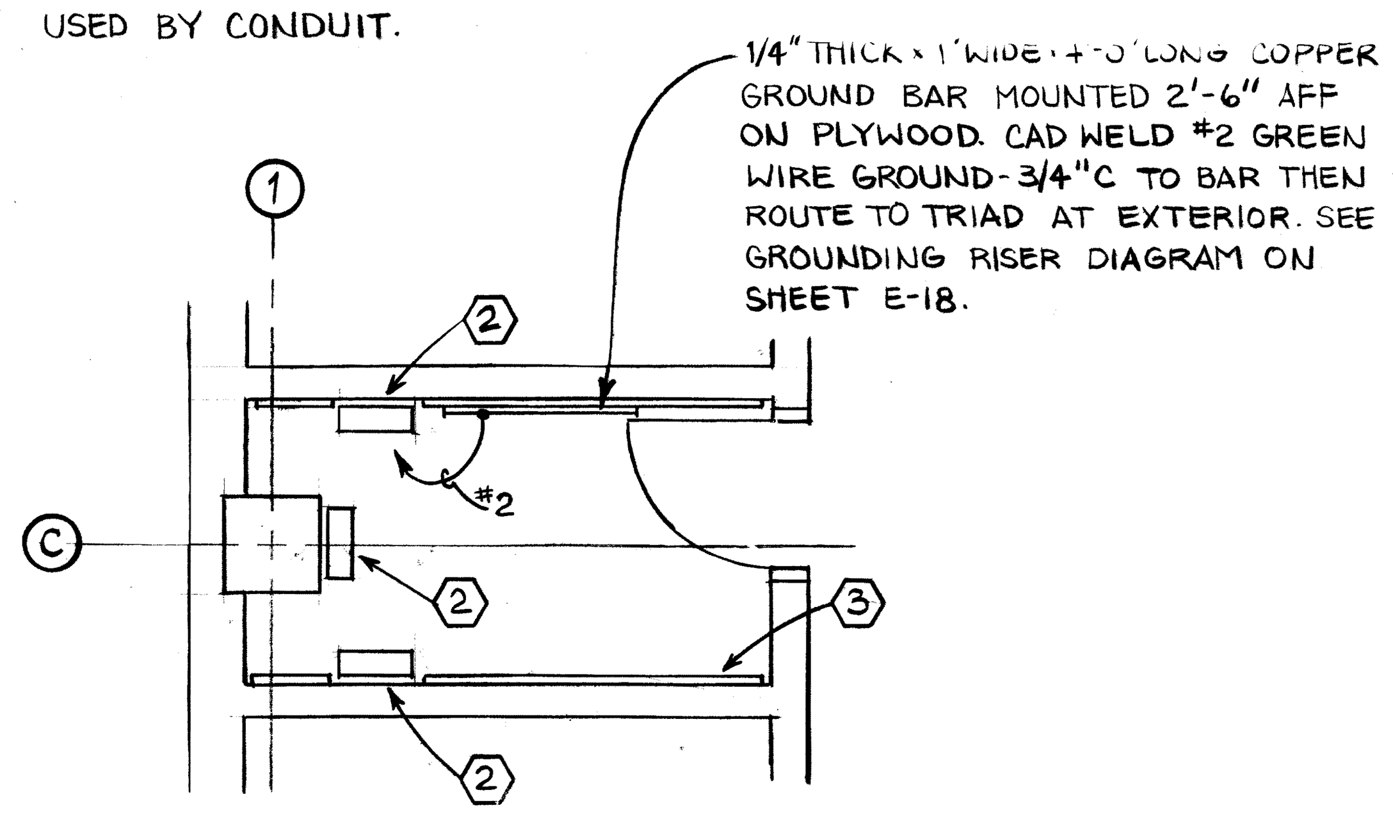
SHEET
E•14

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CE-014-4

ENLARGED ELECTRICAL ROOMS

SCALE 1/4" = 1'-0"

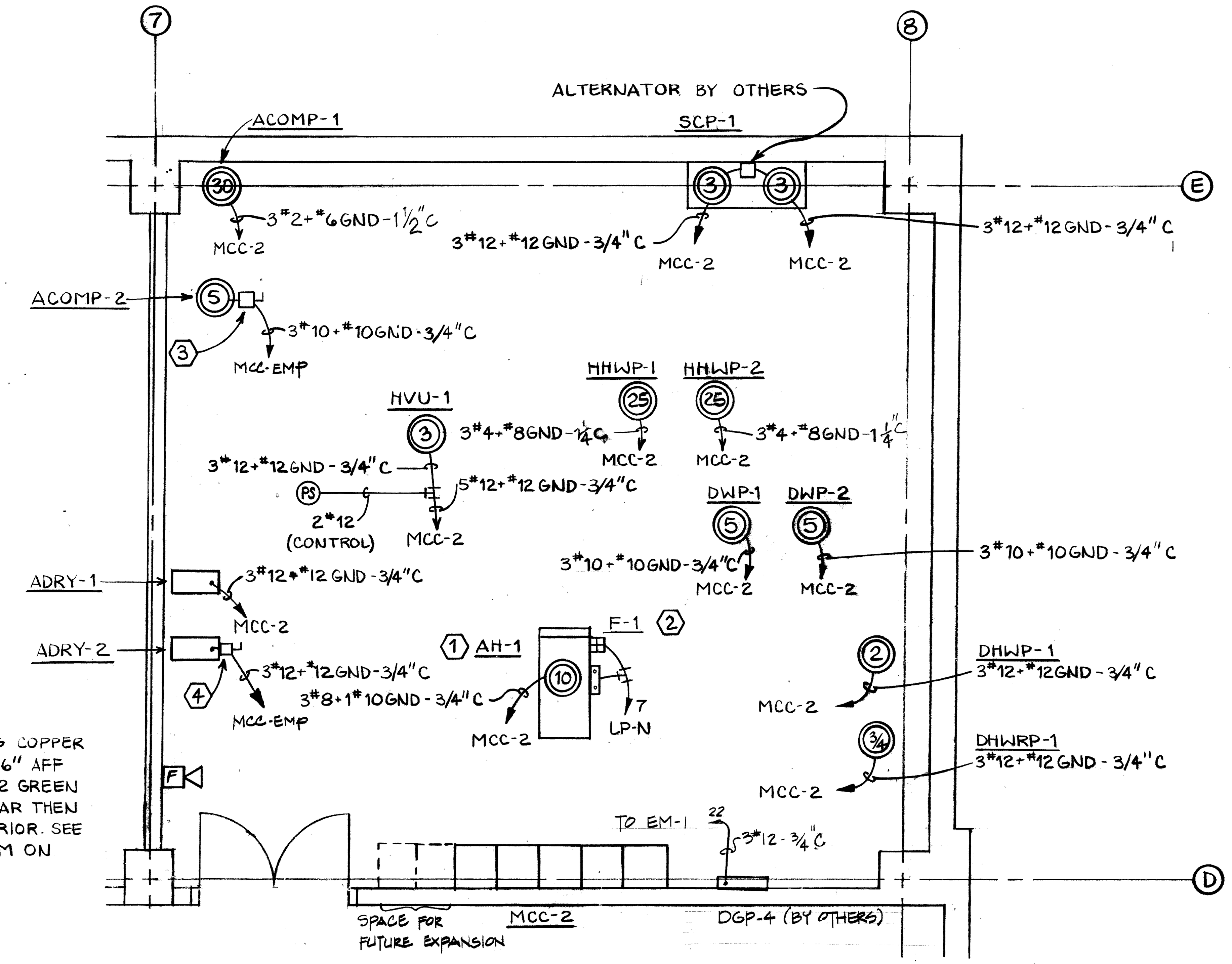




TYPICAL COMMUNICATIONS ROOM
BASEMENT THRU FIFTH FLOORS
SCALE 1/4" = 1'-0"

COMMUNICATIONS & ELECTRICAL ROOM NOTES

1. ROUTE PANEL BOARD FEEDERS THRU SLEEVE IN FLOOR DOWN TO MAIN DISTRIBUTION BOARD IN ELECTRICAL EQUIPMENT ROOM B-13. SEE SINGLE LINE FOR SIZE OF FEEDERS.
2. 9"W x 18"L RECTANGULAR METAL SLEEVE THROUGH FLOOR SLAB FOR COMMUNICATION CONDUIT.
3. 3/4" x 10'-0" HIGH EXTERIOR GRADE PLYWOOD MOUNTED 2'-0" ABOVE FLOOR.



ENLARGED MECHANICAL PLAN

SCALE: 1/4":1'-0"

NOTES

CONNECTIONS TO ALL MOTORS IN MECHANICAL ROOM SHALL BE IN SEAL TITE FLEXIBLE CABLE. LENGTH SHALL BE (2) TIMES THE DISTANCE TO MOTOR TERMINAL BOX.

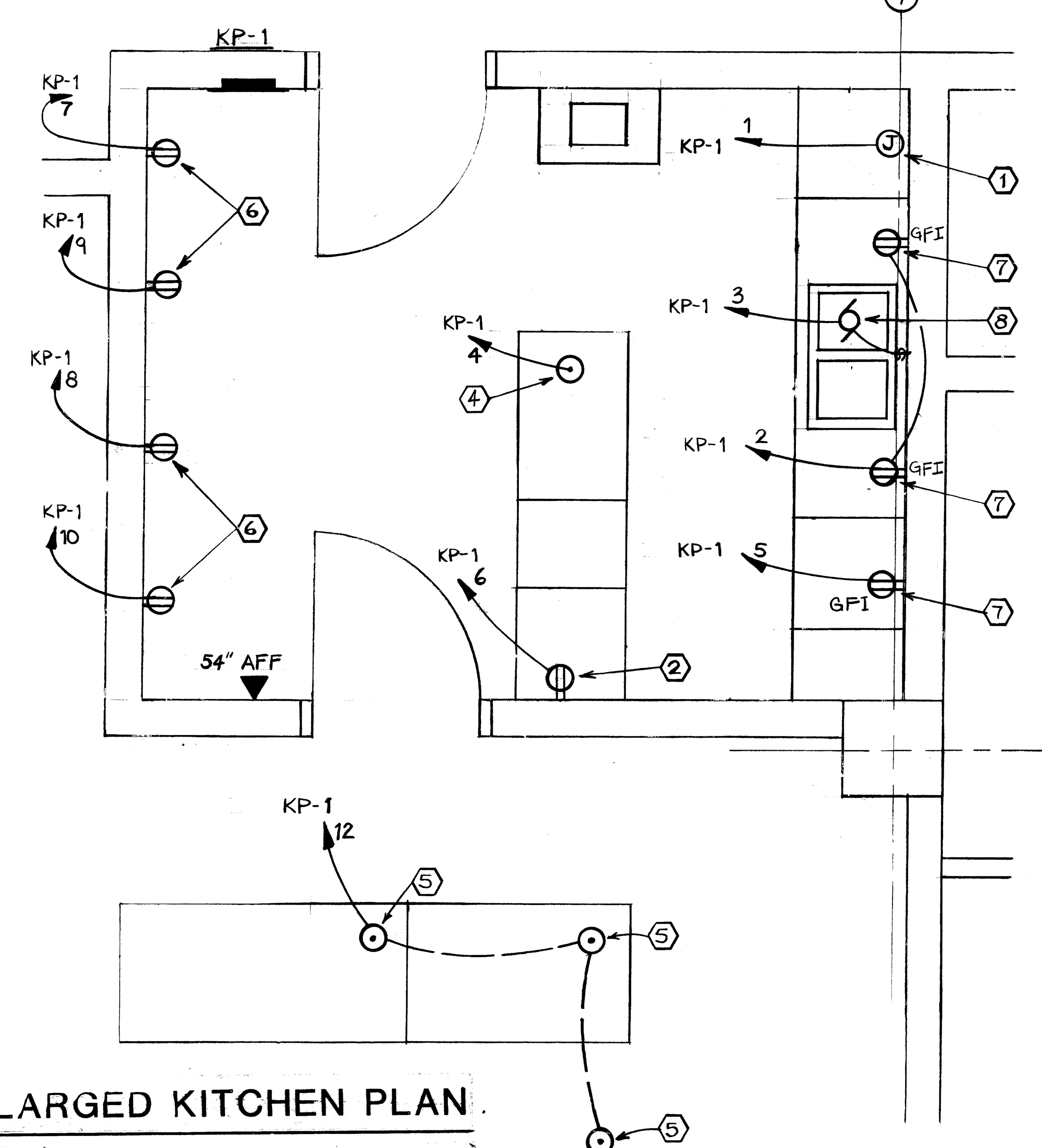
ENLARGED MECHANICAL ROOM DRAWING NOTES

1 ELECTRICAL CONTRACTOR SHALL FURNISH AND WIRE DUCT MOUNTED SMOKE DETECTOR (1 IN SUPPLY, 1 IN RETURN) FOR AH-1. SEE FIRE ALARM RISER. DETECTORS ARE MOUNTED BY MECHANICAL CONTRACTOR.

2 ROUTE TO 120 VAC POWER FOR ROLLER FILTER F-1 AS INDICATED. MANUAL MOTOR STARTER AND START-STOP BUTTON FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR.

3 PROVIDE 30 AMP, 250 VAC, H.D. 3 PHASE NON-FUSED DISCONNECT FOR A COMP-2. VERIFY MOUNTING LOCATION WITH MECHANICAL CONTRACTOR.

4 PROVIDE 30 AMP, 250 VAC, H.D. 3 PHASE, NON-FUSED DISCONNECT FOR ADRY-2. VERIFY MOUNTING LOCATION WITH MECHANICAL CONTRACTOR.



ENLARGED KITCHEN PLAN

SCALE: 1/2":1'-0"

ENLARGED KITCHEN POWER PLAN NOTES

1 MOUNT JUNCTION BOX 48" AFF FOR DIRECT CONNECTION TO DISHWASHER. VERIFY FINAL CONNECTION WITH MANUFACTURER.

2 MOUNT RECEPTACLE 26" AFF FOR REFRIGERATOR.

3 MOUNT RECEPTACLE 42" AFF FOR COUNTERTOP MICROWAVE.

4 CORE DRILL FLOOR SLAB FOR FLUSH TYPE FLOOR RECEPTACLE. FOR ICE BIN. ROUTE TO CIRCUIT UNDER FLOOR SLAB AND UP TO PANEL. VERIFY FINAL LOCATION OF EQUIPMENT PRIOR TO INSTALLATION.

5 CORE DRILL FLOOR SLAB FOR FLUSH TYPE FLOOR RECEPTACLE FOR FOOD UNITS. ROUTE FEED UNDER FLOOR AND UP TO PANEL VERIFY FINAL LOCATION OF EQUIPMENT PRIOR TO INSTALLATION.

6 EQUALLY SPACE RECEPTACLES ON WALL FOR FOOD WARMERS VERIFY TERMINATION REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.

7 MOUNT GFI RECEPTACLES 42" AFF FOR ABOVE COUNTER RECEPTACLES. MOUNT RECEPTACLES HORIZONTALLY.

8 PROVIDE CONNECTION TO DISPOSAL. MOUNT SWITCH ON WALL ADJACENT TO SINK FOR DISCONNECTING MEANS.

AS BUILT

3-1-91

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CE-015-4

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

87/016

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved by director design and construction division

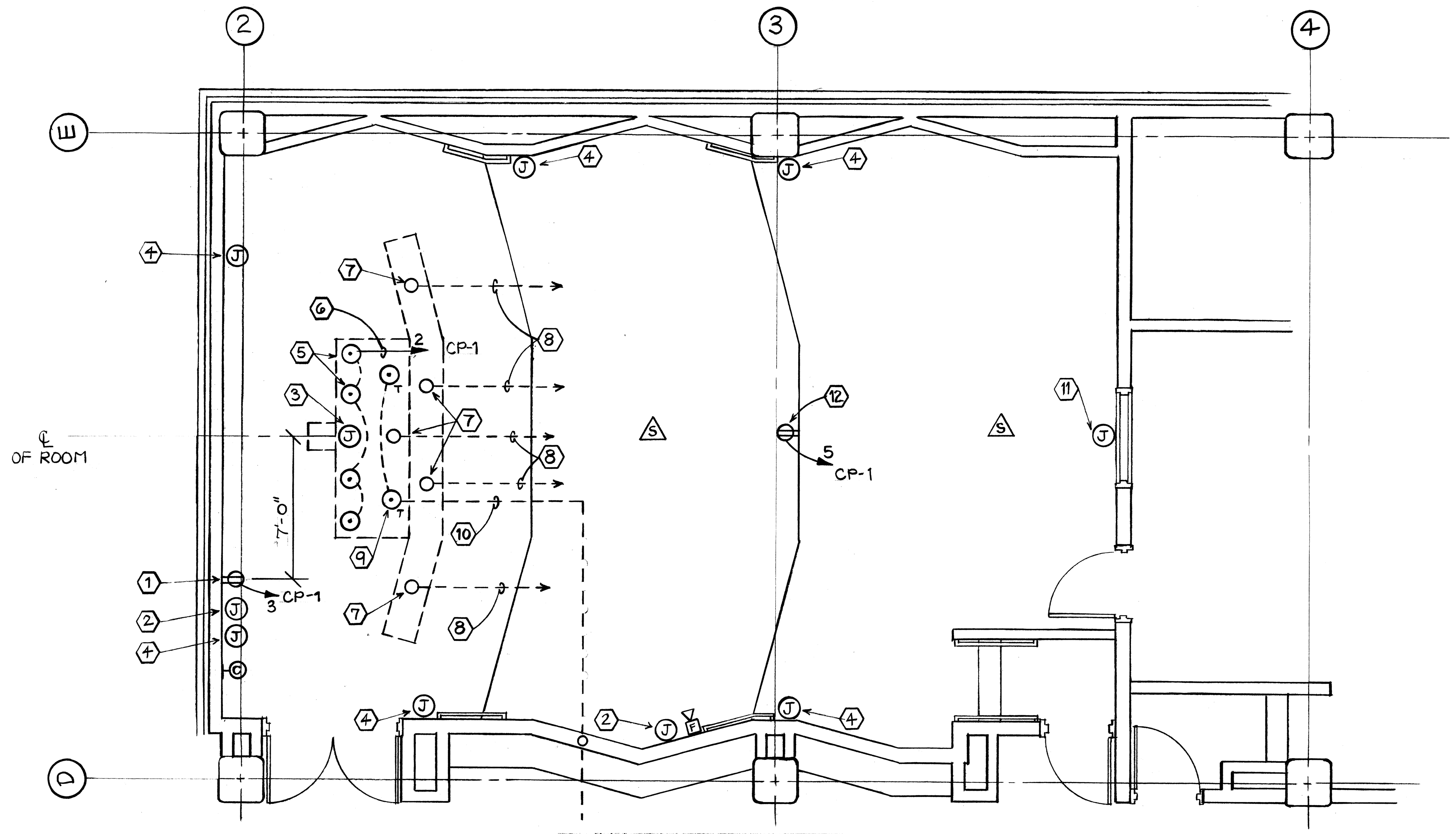
ELECTRICAL CLOSETS PLAN

Sherman Carter Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606-254-1351

JOB NO.	8706
DATE	9-30-87
DRAWN	D. MEYER
CHECKED	M. GOLDBERG
UK FILE NO.	431.0

REVISIONS
3-90% REVIEW 10-16-87
4-GENERAL 7-18-88

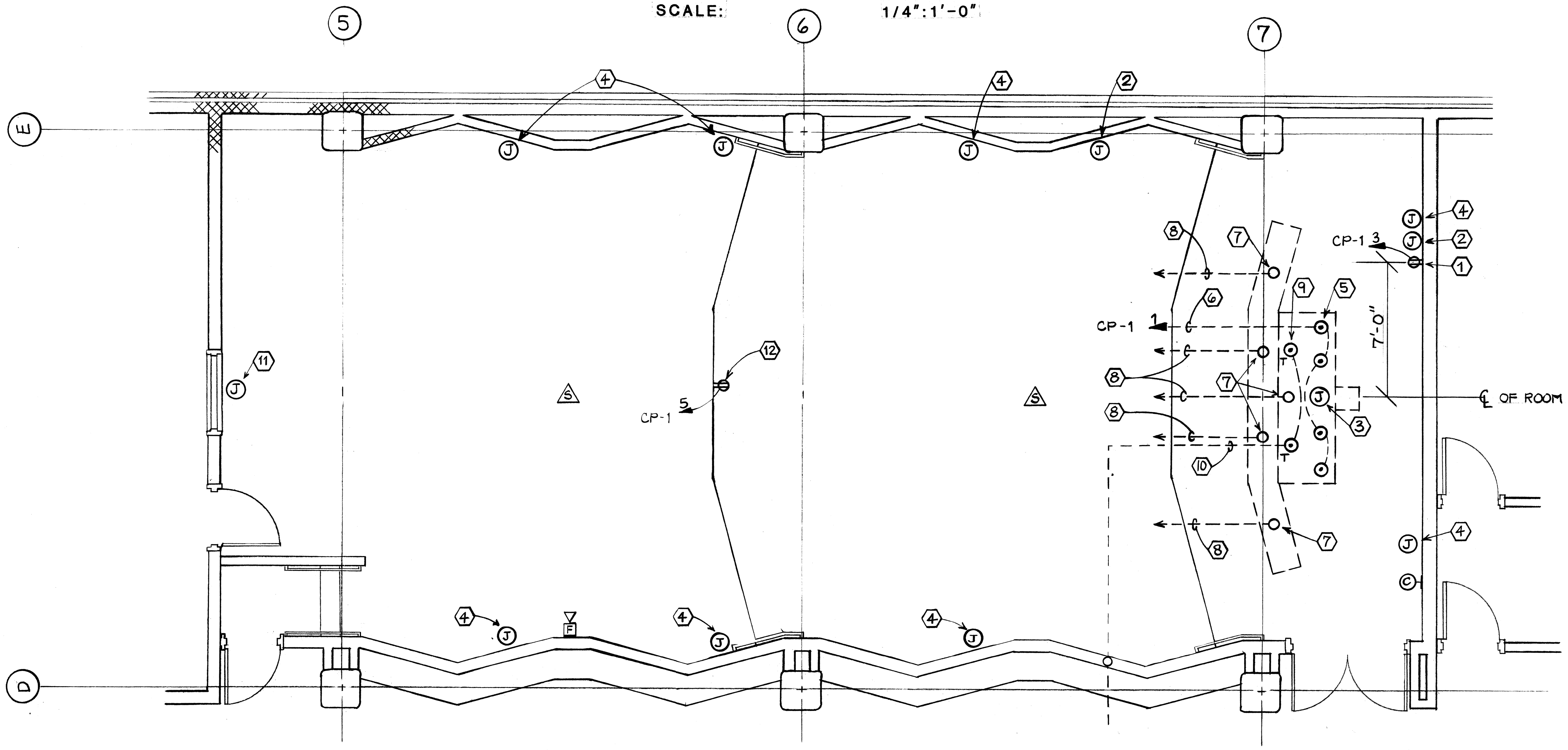
SHEET
E•15



ENLARGED INSTRUCTIONAL

TELEVISION ROOM 312

SCALE: 1/4":1'-0"



ENLARGED INSTRUCTIONAL

TELEVISION ROOM 308

SCALE: 1/4":1'-0"

ENLARGED ITV ROOMS DRAWING NOTES

1 MOUNT RECEPTACLE FOR MOTORIZED PROJECTION SCREEN IN WALL 8'-0" AFF. VERIFY RECEPTACLE TYPE WITH SCREEN MANUFACTURER. ROUTE FEED BACK TO CONTROL ROOM PANEL VIA PUSHBUTTON CONTROL DEVICE.

2 PROVIDE FLUSH MOUNTED JUNCTION BOX IN WALL 8'-0" AFF FOR T.V. CAMERA. ROUTE 1-1/2" EMPTY CONDUIT FROM JUNCTION BOX TO CONTROL ROOM PROVIDE GROMMETTED COVER PLATE.

3 PROVIDE FLUSH MOUNTED JUNCTION BOX IN CEILING FOR T.V. CAMERA. CENTER ABOVE DESK. ROUTE 1-1/2" EMPTY CONDUIT FROM JUNCTION BOX TO CONTROL ROOM. PROVIDE GROMMETTED COVER PLATE.

4 PROVIDE FLUSH MOUNTED JUNCTION BOX IN WALL 8'-0" AFF FOR T.V. UNIT. ROUTE EMPTY 3/4" CONDUIT FROM JUNCTION BOX TO CONTROL ROOM. ROVIDE GROMMETTED COVER PLATE.

5 CORE DRILL FLOOR FOR FLUSH MOUNTED DUPLEX RECEPTACLE UNDER DESK LOCATION.

6 ROUTE FEED FROM RECEPTACLE UNDER SLAB TO RAISED FLOOR LOCATION. ROUTE UP THRU SLAB TO CONTROL ROOM PANEL.

7 DRILL 1" OPENING IN FLOOR FOR MICROPHONE CABLE ROUTING. ROUTE CABLE BACK TO CONTROL ROOM.

8 ROUTE 1" CONDUIT FROM UNDER RAISED FLOOR TO MICROPHONE CABLE OPENING.

9 CORE DRILL FLOOR SLAB FOR FLUSH MOUNTED TELEPHONE OUTLET.

10 ROUTE TELEPHONE CONDUIT (1") UNDER SLAB FROM OUTLET TO UP IN WALL TO 8" X8" TELEPHONE WIREWAY IN CORRIDOR.

11 PROVIDE FLUSH MOUNTED JUNCTION BOX IN WALL 8'-0" AFF FOR T.V. CAMERA. ROUTE 1-1/2" EMPTY CONDUIT FORM J.B. TO CONTROL ROOM. PROVIDE GROMMETTED COVER PLATE.

12 MOUNT DUPLEX RECEPTACLE IN FACE OF STEP.

STATE OF KENTUCKY HERBERT R. NICHOLS 14867 REGISTERED PROFESSIONAL ENGINEER

877016

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved: director design and construction division
10.19.87

ITV ROOM'S PLAN

Sherman-Carter-Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606 254-1351

JOB NO	8706
DATE	9-30-87
DRAWN	D. MEYER
CHECKED	M. GOLDBERG
UK FILE NO	431.0

REVISIONS
3-90% REVIEW 10-16-87
4-GENERAL 7-18-88

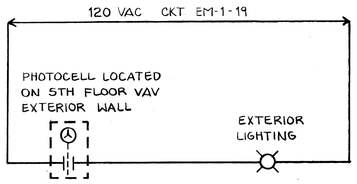
AS BUILT
3-1-91

NORTH

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CE-016-4

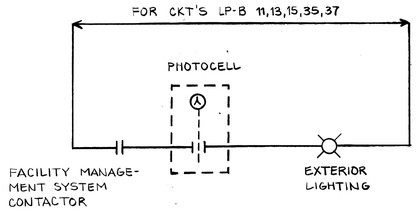
SHEET
E•16

Cab# 83 Slot B-2 Document # 004982



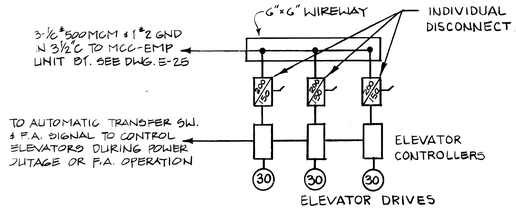
EXTERIOR EMERGENCY LIGHTING CONTROL DIAGRAM

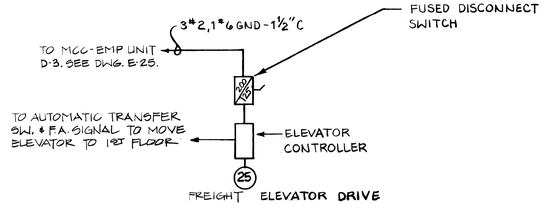
NO SCALE



EXTERIOR LIGHTING CONTROL DIAGRAM

NO SCALE

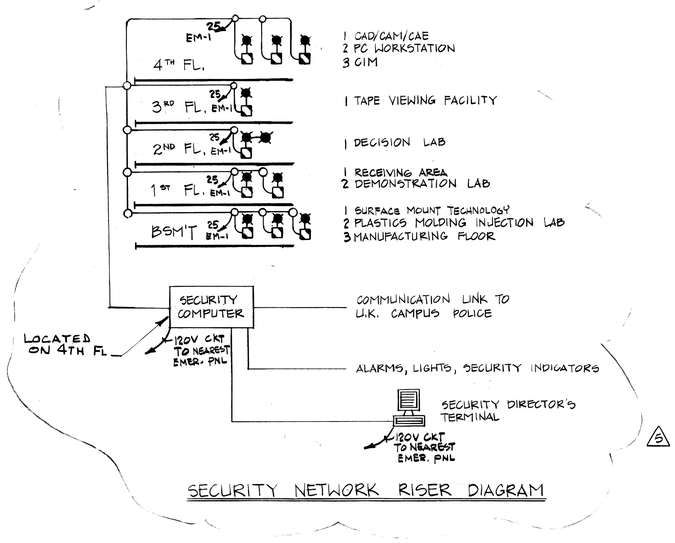




ELEVATOR RISER DIAGRAMS

NOTES FOR ELEVATOR RISER DIAGRAMS

1. CONTACT "EO" IS CLOSED WHEN AUTOMATIC TRANSFER SWITCH IS IN THE NORMAL POWER POSITION AND OPEN WHEN SWITCH IS IN THE EMERGENCY POWER POSITION.
2. CONTACT "NOX" CLOSES 20 SECONDS PRIOR TO TRANSFER OF POWER IN EITHER DIRECTION, OPENS WHEN TRANSFER IS COMPLETE.
3. TRANSFER SWITCH AND AUXILIARY CONTACTS ALONG WITH WIRING TO AND FROM THESE DEVICES IS TO BE FURNISHED BY THE ELECTRICAL CONTRACTOR.



SECURITY NETWORK RISER DIAGRAM

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

STATE OF KENTUCKY — ROBERT P. NICHOLS — LICENSED PROFESSIONAL ENGINEER

871016

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by — director - design and construction division — 10.14.87 date

ELECTRICAL DETAILS

Herman Carter Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606-254-1351

JOB NO. 8706
DATE 9-30-87
DRAWN D. MEYER
CHECKED M. GOLDBERG
VA FILE NO 431.0

REVISIONS
3-90% REVIEW 10-16-87
4-GENERAL 7-18-88
5-RENOVATION 2-16-90

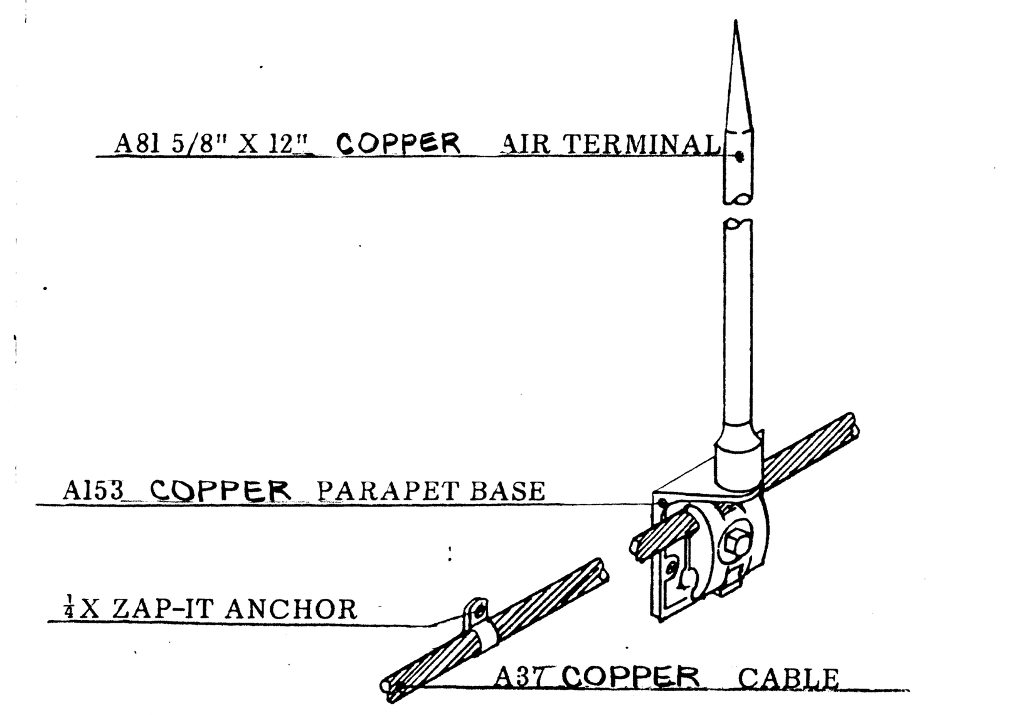
SHEET
E•17

Cab # — Slot — Document #
83 — B-2 — 004983

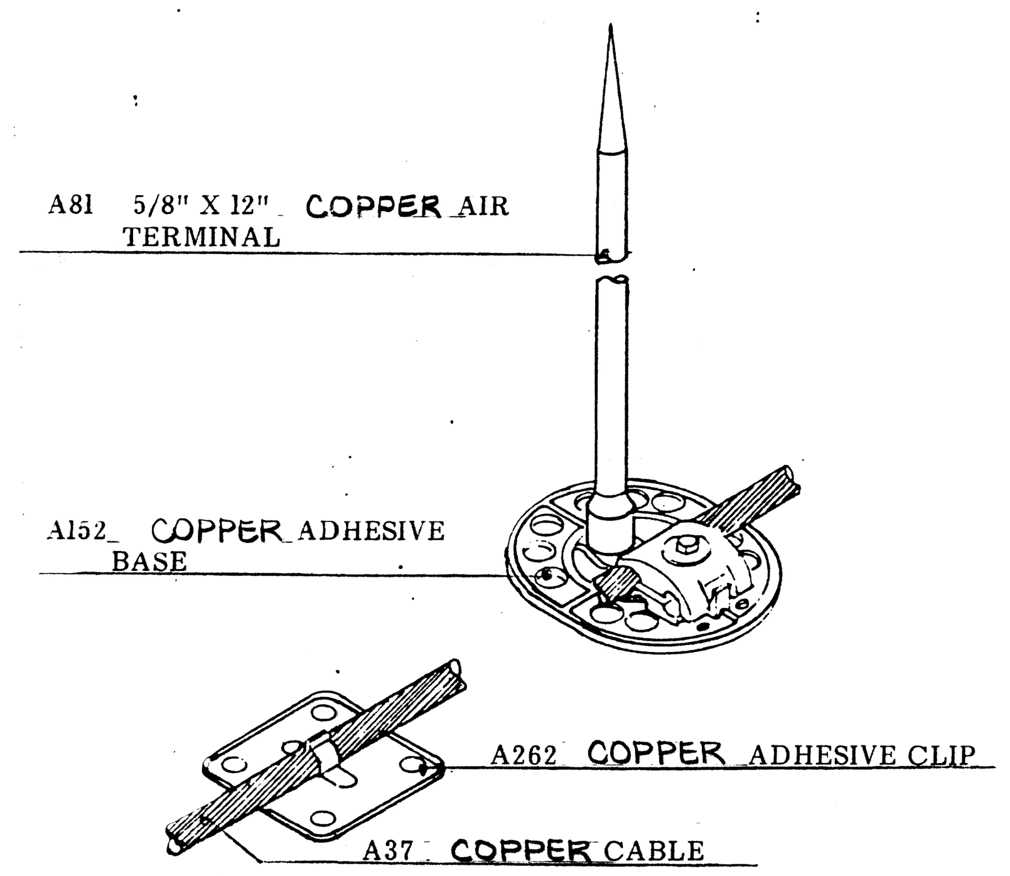
AS BUILT
3-1-91

NORTH

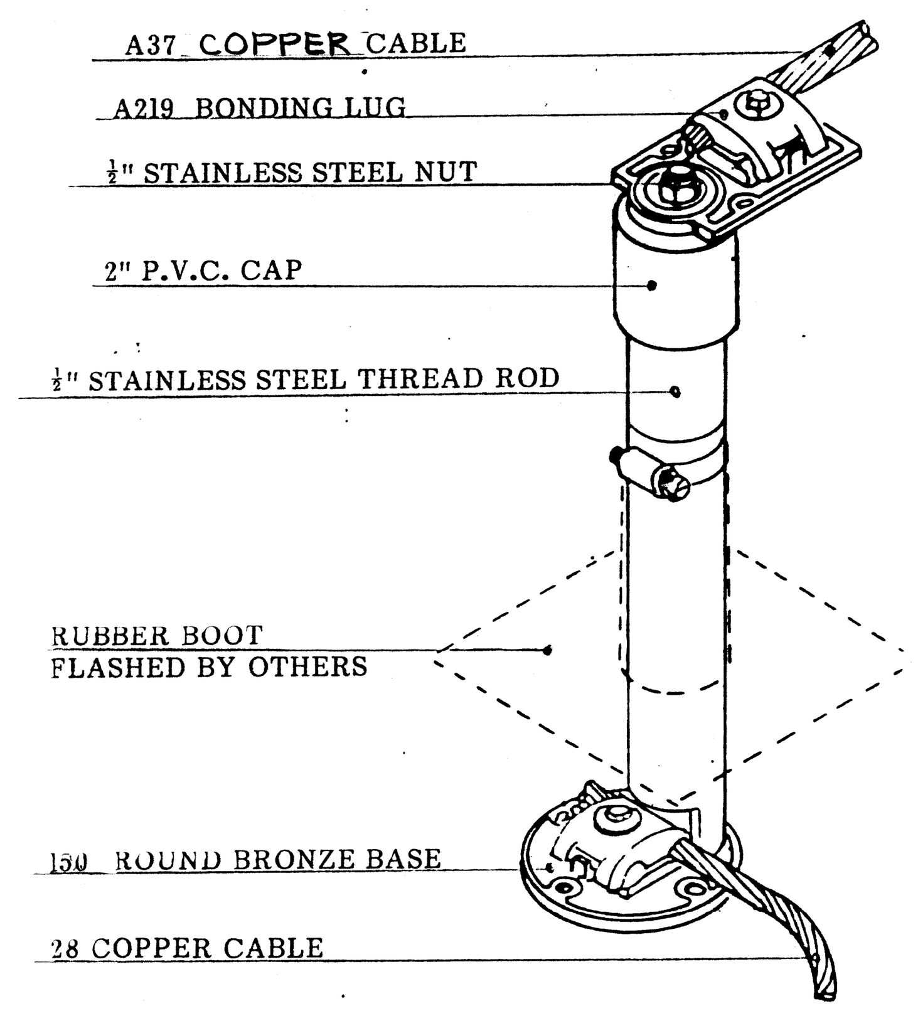
BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER 4361-CE-017-4



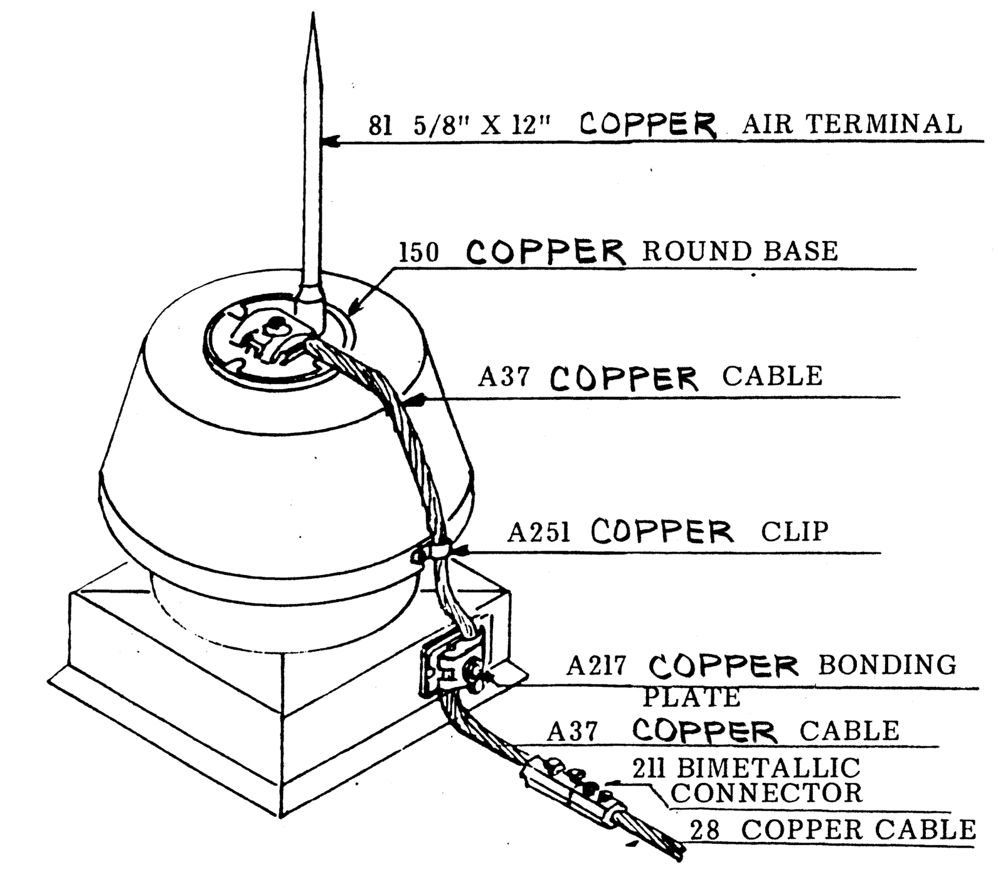
AIR TERMINAL DETAIL "A"



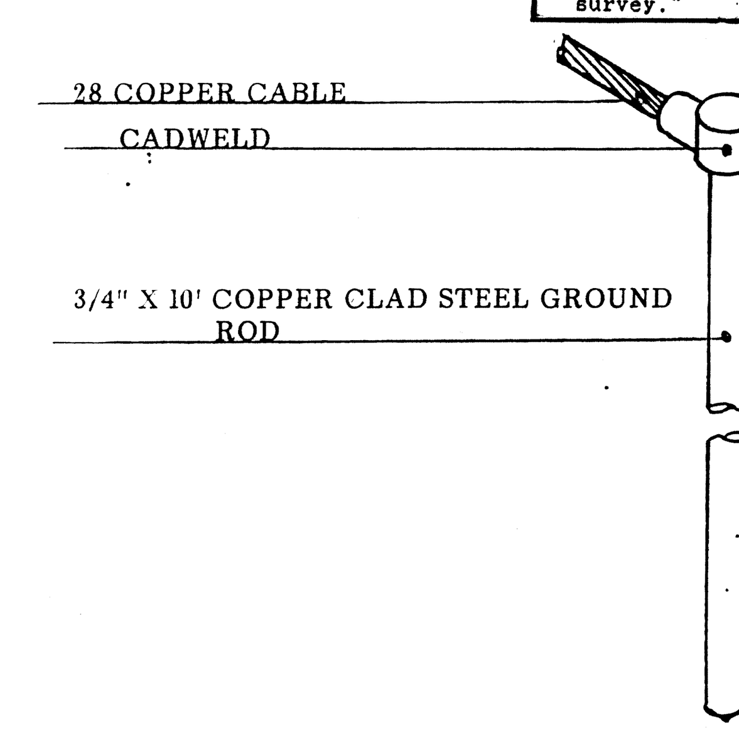
AIR TERMINAL DETAIL "B"



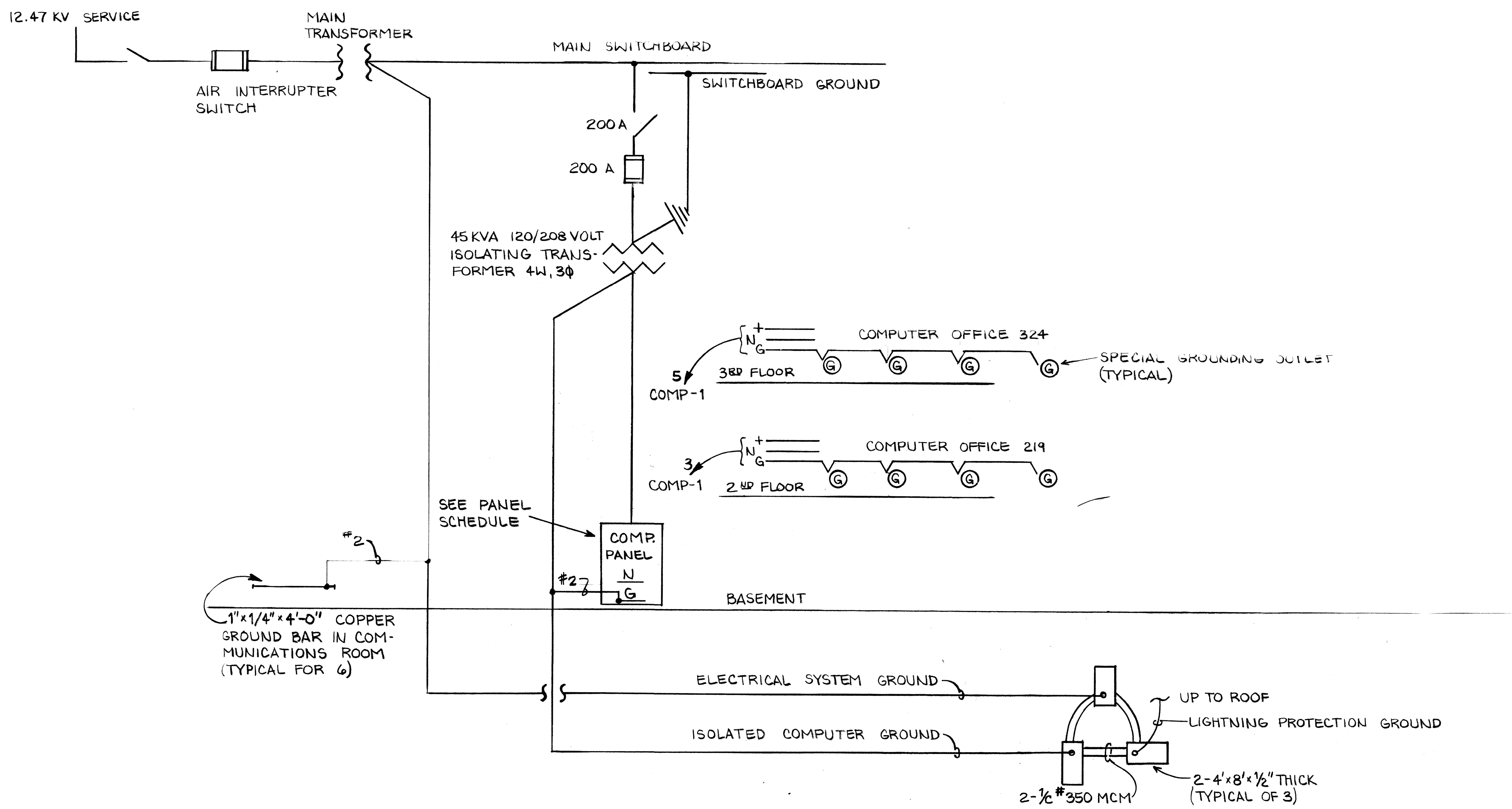
THRU—ROOF DETAIL



AIR TERMINAL DETAIL



GROUNDING DETAIL



GROUND RISER DIAGRAM
NO SCALE

AS BUILT
3-1 31

BELCAN CORPORATION
10200 ANDERSON WAY

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

871016

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
10.19.87
director design and construction

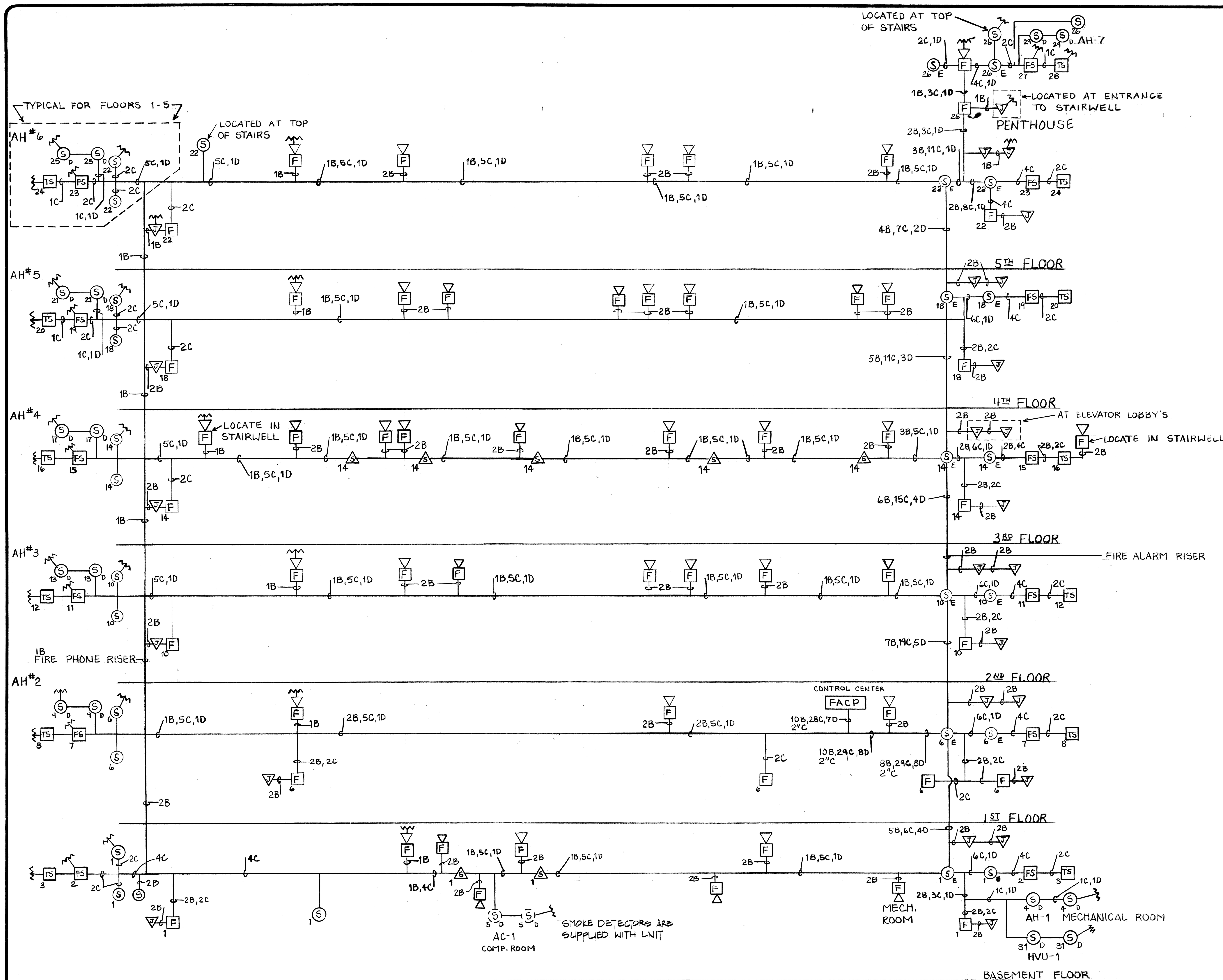
GROUND RISER DIAGRAM

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606 254 7351

JOB NO	8706
DATE	9-30-87
DRAWN	D. MEYER
CHECKED	M. GOLDBERG
UK FILE NO	431.0

REVISIONS
3-90% REVIEW 10-16-87
4-GENERAL 7-18-88

SHEET
E•18



FIRE ALARM - RISER DIAGRAM

SYMBOL LIST

- F — MANUAL PULL STATION (Z INDICATES ZONE #)
- SPEAKER A/V LIGHT UNIT
- S — SMOKE DETECTOR
- SMOKE DETECTOR UNDER RAISED FLOOR
- S_E — SMOKE DETECTOR IN ELEVATOR LOBBY
- END OF LINE RESISTOR
- S_D — DUCT SMOKE DETECTOR
- FS — WATER FLOW SWITCH (FURNISHED BY OTHERS)
- TS — TAMPER SWITCH (FURNISHED BY OTHERS)
- FIRE PHONE JACK
- PIV — PIV (FURNISHED BY OTHERS)
- B = TWISTED SHEILDED #14 PAIR (SPEAKER & PHONE CKTS)
- C = 2 #14 (ZONE WIRING)
- D = 2 #14 (POWER OR CONTROL WIRES)
- SMOKE DETECTOR W/ AUXILIARY RELAY

ZONE #	ZONE DESCRIPTION
1	BASEMENT AREA
2	BASEMENT FS
3	BASEMENT TS
4	BASEMENT MECHANICAL ROOM AH#1
5	BASEMENT COMPUTER ROOM AC-1
6	FIRST FLOOR AREA
7	FIRST FLOOR FS
8	FIRST FLOOR TS
9	FIRST FLOOR AH#2
10	SECOND FLOOR AREA
11	SECOND FLOOR FS
12	SECOND FLOOR TS
13	SECOND FLOOR AH#3
14	THIRD FLOOR AREA
15	THIRD FLOOR FS
16	THIRD FLOOR TS
17	THIRD FLOOR AH#4
18	FOURTH FLOOR AREA
19	FOURTH FLOOR FS
20	FOURTH FLOOR TS
21	FOURTH FLOOR AH#5
22	FIFTH FLOOR AREA
23	FIFTH FLOOR FS
24	FIFTH FLOOR TS
25	FIFTH FLOOR AH#6
26	PENTHOUSE AREA
27	PENTHOUSE FS
28	PENTHOUSE TS
29	PENTHOUSE AH#7
30	MAIN P.I.V.
31	HVU-1
32	SPARE
33	SPACE FOR 15 FUTURE ZONES (OR SPARES)

FIRE ALARM RISER NOTES

1. Fire phone in each elevator. Add 2B to Elevator Riser.
2. Electrical Contractor shall provide 1 relay at each AH Motor Controller for shutdown. This relay will be picked by a FA Relay.
3. Elevator control wires are not shown on riser. Take 2 # 14 from the first floor elevator lobby smoke detector to the Elevator Controller. Also, take 2 # 14 (looped together) from all other floors to the Elevator Controller. This must be done for each elevator.
4. Provide 9 sets of contacts to Honeywell Panel for Floor Alarm tie in, plus 1 contact for common system trouble (wires not shown).
5. One speaker circuit per floor.
6. One speaker circuit for each elevator cab. (Wires not shown.)
7. Fire Phone Riser Circuits.
   Far end stair entrance
   Elevator stair entrance
   Elevator lobby
   Passenger Elevator Cab 1,2,3 — Wires not shown
   Freight Elevator Cab 4 — Coordinate with Elevator Contractor
8. CONDUIT FOR EAST AND WEST VERTICAL RISERS SHALL BE 3"C. HORIZONTAL CONDUIT SIZED AS INDICATED OR REQUIRED BY NEC.

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

871016

AS BUILT 3-1-91

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CE-019-4

NORTH

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved by — 10.19.87

FIRE ALARM RISER DIAGRAM

Sherman-Carter-Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • 606 254-1351

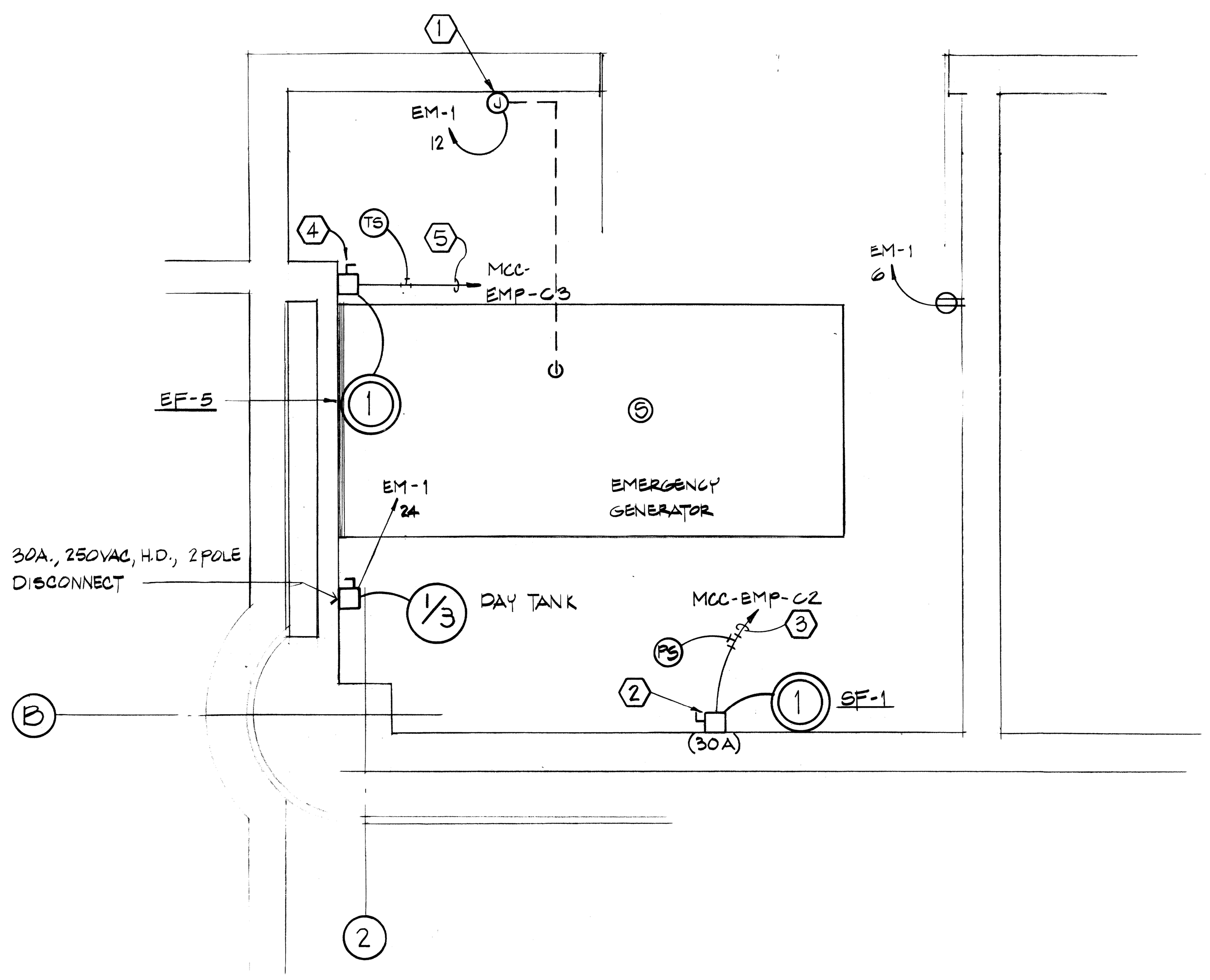
JOB NO	8706
DATE	9-30-87
DRAWN	D. MEYER
CHECKED	M. GOLDBERG

REVISIONS

3-90% REVIEW	10-16-87
4-GENERAL	7-18-88

SHEET E•19

Cab # 83 Slot B-2 Document # 004985



ENLARGED EMERGENCY GENERATOR RM. B14
SCALE ½"=1'-0"

ENLARGED EMERGENCY GENERATOR ROOM

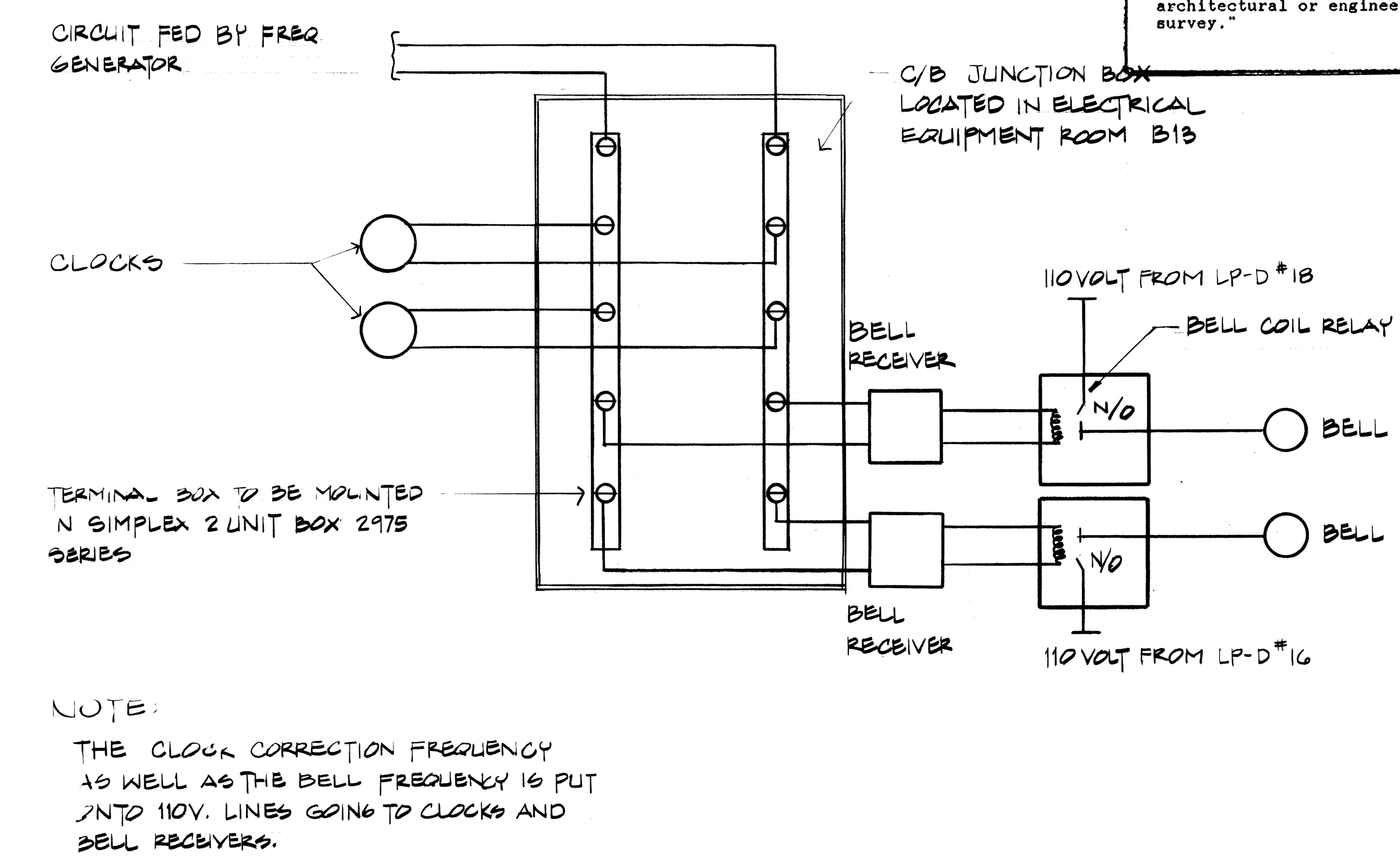
1 PROVIDE 208 VOLT. RECEPTACLE FOR ENGINE JACKET HEATER. VERIFY WITH MANUFACTURER TERMINIATION TYPE. ROUTE FEED TO GENERATOR. VERIFY LOCATION OF HEATER JACKET PRIOR TO INSTALLATION.

2 PROVIDE 250 VAC, 3 POLE, NON FUSED, H.D. DISCONNECT FOR SF-1. MOUNT DISCONNECT ON WALL ADJACENT TO MOTOR.

3 ROUTE 5 #12 +1#12 GND - 3/4" C TO MCC-EMP. 2 #12 TO BE CONNECTED TO PRESSURE SWITCH FOR CONTROL OF SF-1, (SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR) WIRE BY ELECTRICAL CONTRACTOR.

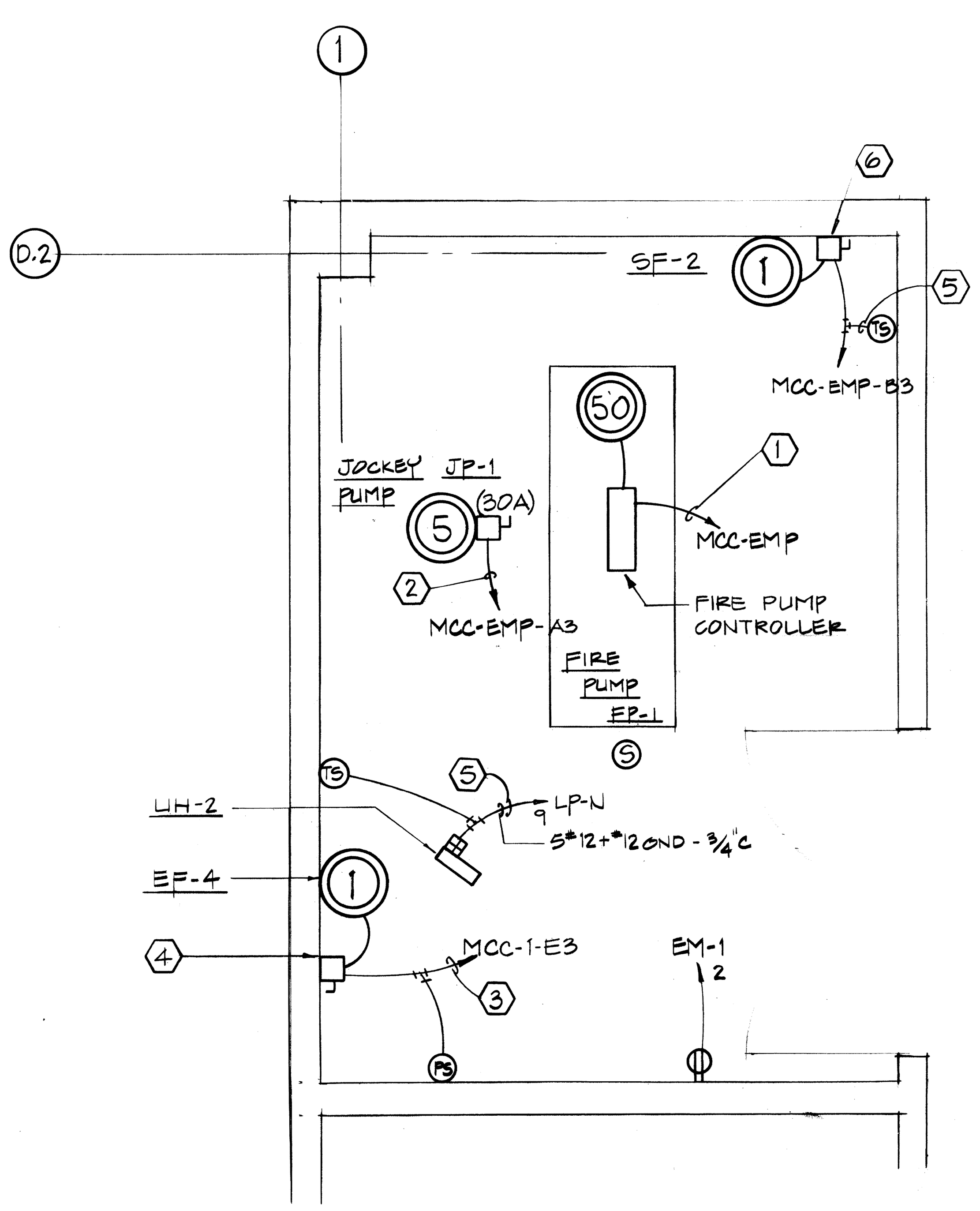
4 PROVIDE 30 AMP. NON-FUSED, H.D., 3 POLE DISCONNECT MOUNTED ON WALL ADJACENT TO EF-5.

5 ROUTE 5 #12 +1#12 GND -3/4"C TO MCC-EMP. 2 #12 TO BE CONNECTED TO TEMPERATURE SWITCH FOR CONTROL OF EF-5. TEMPERATURE SWITCH IS SUPPLIED AND MOUNTED BY MECHANICAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.



NOTE:
THE CLOCK CORRECTION FREQUENCY AS WELL AS THE BELL FREQUENCY IS PUT ONTO 110V. LINES GOING TO CLOCKS AND BELL RECEIVERS.

CLOCK & BELL SYSTEM DIAGRAM
NO SCALE



ENLARGED FIRE PUMP ROOM B09
SCALE ⅜"=1'-0"

ENLARGED FIRE PUMP ROOM NOTES

1 ROUTE FEEDER FOR FIRE PUMP (FP-1) UNDER SLAB, ENCASED IN CONCRETE, (MINIMUM OF 2" AROUND CONDUIT), AND STAB UP IN EMERGENCY GENERATOR ROOM. DISCONNECT FOR FIRE PUMP IS SUPPLIED BY OTHERS. FEEDER SIZE TO BE 4# 4/0 + #6 GND-2½"CONDUIT VERIFY STUB UP LOCATION IN EMERGENCY GENERATOR ROOM PRIOR TO INSTALLATION.

2 ROUTE FEEDER FOR JOCKEY PUMP (JP-1) UNDER SLAB. ENCASED IN CONCRETE (MINIMUM OF 2" AROUND CONDUIT), AND STUB UP IN EMERGENCY GENERATOR ROOM. DISCONNECT FOR JOCKEY PUMP IS SUPPLIED BY OTHERS. FEED SIZE IS 3# 10 + #10 GND - 3/4"C. VERIFY STUB UP LOCATION IN EMERGENCY GENERATOR ROOM PRIOR TO INSTALLATION.

3 ROUTE 5#12+1#12 GND - 3/4"C BACK TO MCC-1. WIRE 2# 12 TO PRESSURE SWITCH LOCATED AND INSTALLED BY MECHANICAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.

4 PROVIDE 30 AMP DISCONNECT, NON-FUSED, 250 VAC, WEATHERPROOF, 3 POLE DISCONNECT FOR EF-4, MOUNT DISCONNECT ON WALL ADJACENT TO UNIT.

5 2# 12 FOR TEMPERATURE SWITCH POWER. SWITCH IS FURNISHED AND MOUNTED BY MECHANICAL CONTRACTOR.

6 PROVIDE 250 VAC, 30 AMP, NON-FUSED, H.D. DISCONNECT FOR SF-2. MOUNT ON WALL ADJACENT TO FAN.

AS BUILT
3-1-11

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361 CE-020-4

871016

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved by — director · design and construction division
date 11-19-87

ELECTRICAL DETAILS

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606-254-1351

JOB NO.	8706
DATE	9-30-87
DRAWN	D. MEYER
CHECKED	M. GOLDBERG
UK FILE NO	431.0

REVISIONS
3-90% REVIEW 10-16-87
4-GENERAL 7-18-88

SHEET
E•20

Cab # 83 Slot B-2 Document # 0049986

BASEMENT POWER PLAN DRAWING NOTES

1 ROUTE CONDUIT DOWN FACE OF WALL TO ELECTRICAL EQUIPMENT FROM LADDER CABLE TRAY. SEE DETAIL THIS SHEET.

2 MOUNT POWER PANEL PP-A ON WALL. ROUTE CONDUIT SURFACE MOUNTED DOWN FACE OF WALL.

3 MOUNT POWER PANEL PP-B ON WALL. ROUTE CONDUIT SURFACE MOUNTED DOWN FACE OF WALL.

4 8" X 8" WIREWAY MOUNTED ABOVE CEILING FOR TELEPHONE CABLING ONLY. RUN FROM TELEPHONE BOARD IN COMMUNICATIONS ROOM THROUGH CORRIDOR.

5 8" X 8" WIREWAY MOUNTED ABOVE CEILING FOR COMMUNICATIONS AND COMPUTER CABLING. RUN FROM COMMUNICATIONS ROOM THROUGH CORRIDOR.

6 EXTEND 3/4" EMPTY CONDUIT (WITH PULLSTRING) FROM WIREWAY IN CORRIDOR TO TELEPHONE OUTLET. ROUTE CONDUIT ABOVE CEILING AND DOWN IN WALL. TYPICAL FOR SINGLE TELEPHONE OUTLET.

7 EXTEND 1" EMPTY CONDUIT (WITH PULLSTRING) FROM WIREWAY IN CORRIDOR TO (2) TELEPHONE OUTLETS. ROUTE CONDUIT ABOVE CEILING AND DOWN IN WALL TO OUTLETS. TYPICAL FOR DOUBLE TELEPHONE OUTLETS.

8 EXTEND 1" EMPTY CONDUIT (WITH PULLSTRING) FROM WIREWAY IN CORRIDOR TO (2) COMPUTER OUTLETS. ROUTE CONDUIT ABOVE CEILING AND DOWN IN WALL TO OUTLETS. TYPICAL FOR DOUBLE COMPUTER OUTLETS.

9 MOUNT 208 VAC 1 PHASE OUTLET 18" AFF.

10 8"x8" WIREWAY MOUNTED ABOVE CEILING FOR 120 VOLT POWER TO CABLE TRAY IN MACHINE BAY.

11 NOT USED

12 ROUTE EMPTY 3/4" CONDUIT DOWN IN WALL FOR DOOR CLOSER CONTROL WIRING. ROUTE CONDUIT BACK TO DATA GATHERING PANEL.

17 NOT USED

18 NOT USED

19 NOT USED

20 NOT USED

21 DOOR CONTRACTOR TO PROVIDE 30 AMP, 3P, 250 VAC NON-FUSIBLE NEMA TYPE 1 DISCONNECT.

22 OPEN, CLOSE, STOP PUSHBUTTON FURNISHED AND INSTALLED BY DOOR CONTRACTOR WIRED BY ELECTRICAL CONTRACTOR EXTEND CONTROL WIRING IN 3/4" CONDUIT FROM PUSH-BUTTON UNIT TO DOOR CONTROLLER PER MANUFACTURERS RECOMMENDATIONS. STARTER AND CONTROLS BY DOOR CONTRACTOR.

23 PROVIDE 60 AMP DROP (480 VOLT 3 PHASE) FROM CABLE TRAY FOR WELDING OUTLET.

24 PROVIDE 30 AMP, NON-FUSED, H.D., 3 POLE DISCONNECT MOUNTED ON WALL FOR EF-6. VERIFY FINAL LOCATION OF EF-6 PRIOR TO INSTALLATION.

25 MOUNT START STOP BUTTON ADJACENT TO EF-6 FOR CONTROL. START STOP BUTTON IS FURNISHED, INSTALLED, AND WIRED BY ELECTRICAL CONTRACTOR.

26. PROVIDE 30 AMP. NON-FUSED HEAVY DUTY 3 POLE DISCONNECT MOUNTED ON WALL FOR CONTROLLER UNIT. 5

27. PROVIDE 60 AMP NON-FUSED HEAVY DUTY 3 POLE DISCONNECT MOUNTED ON WALL FOR WELDER UNIT.

SECOND FLOOR POWER PLAN NOTES

1 MOUNT GFI RECEPTACLE 42" AFF, (ABOVE COUNTER) ROTATE RECEPTACLE 90 DEGREES SO RECEPTACLE IS MOUNTED HORIZONTALLY.

2 PROVIDE RECEPTACLE FOR UNDER COUNTER REFRIGERATOR.

3 PROVIDE GFI RECEPTACLE MOUNTED 42" AFF.

4 CORE DRILL FLOOR SLAB FOR FLUSH TYPE RECEPTACLE. ROUTE FEEDER BACK TO 1ST FLOOR PANEL AS INDICATED. VERIFY FINAL LOCATION PRIOR TO ROUGH-IN.

5 CORE DRILL FLOOR SLAB FOR FLUSH TYPE TELEPHONE OUTLET. ROUTE 3/4" CONDUIT FROM EACH OUTLET TO TELEPHONE RACEWAY ON 1ST FLOOR.

6 8" X 8" WIREWAY MOUNTED ABOVE CEILING FOR TELEPHONE CABLING ONLY. RUN FROM TELEPHONE BOARD IN COMMUNICATIONS ROOM THROUGH CORRIDOR.

7 8" X 8" WIREWAY MOUNTED ABOVE CEILING FOR COMMUNICATIONS AND COMPUTER CABLING. RUN FROM COMMUNICATIONS ROOM THROUGH CORRIDOR.

8 EXTEND 3/4" EMPTY CONDUIT (WITH PULLSTRING) FROM WIREWAY IN CORRIDOR TO TELEPHONE OUTLET. ROUTE CONDUIT ABOVE CEILING AND DOWN IN WALL. TYPICAL FOR SINGLE TELEPHONE OUTLET.

9 EXTEND 3/4" EMPTY CONDUIT (WITH PULLSTRING) FROM WIREWAY IN CORRIDOR TO COMPUTER OUTLET. ROUTE CONDUIT ABOVE CEILING AND DOWN IN WALL. TYPICAL FOR SINGLE COMPUTER OUTLET.

10 EXTEND 1" EMPTY CONDUIT (WITH PULLSTRING) FROM WIREWAY IN CORRIDOR TO (2) TELEPHONE OUTLETS. ROUTE CONDUIT ABOVE CEILING AND DOWN IN WALL TO OUTLETS. TYPICAL FOR DOUBLE TELEPHONE OUTLETS.

11 EXTEND 1" EMPTY CONDUIT (WITH PULLSTRING) FROM WIREWAY IN CORRIDOR TO (2) COMPUTER OUTLETS. ROUTE CONDUIT ABOVE CEILING AND DOWN IN WALL TO OUTLETS. TYPICAL FOR DOUBLE COMPUTER OUTLETS.

12 EXTEND 3/4" CONDUIT (WITH PULLSTRING) FROM WIREWAY IN CORRIDOR TO TELEVISION OUTLET. ROUTE CONDUIT ABOVE CEILING AND DOWN IN WALL TO OUTLET.

13 MOUNT JUNCTION BOX 24" AFF FOR FUTURE CONNECTION TO WORKSTATION UNITS. VERIFY LOCATION PRIOR TO INSTALLATION.

14 ROUTE EMPTY 3/4" CONDUIT DOWN IN WALL FOR DOOR CLOSER CONTROL WIRING. ROUTE CONDUIT BACK TO DATA GATHERING PANEL.

15 PROVIDE 100 AMP, NON-FUSED, H.D., 250 VAC DISCONNECT FOR AH-3 MOUNT ON WALL ADJACENT TO UNIT. VERIFY FINAL LOCATION WITH MECHANICAL CONTRACTOR.

16 ROUTE 5# 12 + #12 GND - 3/4"C TO 120 VAC PANEL INDICATED FOR ROLL FILTER F-3. MOTOR STARTER AND START-STOP BUTTON FURNISHED AND MOUNTED BY MECHANICAL CONTRACTOR. 2# 12 FOR START-STOP CONTROL.

17 ROUTE 5# 12 + #12 GND - 3/4"C TO 120 VAC PANEL INDICATED. TEMPERATURE SWITCH IS FURNISHED AND MOUNTED BY MECHANICAL CONTRACTOR. 2# 12 IS FOR TEMPERATURE SWITCH POWER.

18 ELECTRICAL CONTRACTOR SHALL FURNISH AND WIRE DUCT MOUNTED SMOKE DETECTOR (1 IN SUPPLY, 1 IN RETURN) FOR AH-3 SEE FIRE ALARM RISER DIAGRAM. DETECTORS ARE MOUNTED BY MECHANICAL CONTRACTOR.

THIRD FLOOR POWER PLAN NOTES

1 8" X 8" WIREWAY MOUNTED ABOVE CEILING FOR TELEPHONE CABLING ONLY. RUN FROM TELEPHONE BOARD IN COMMUNICATIONS ROOM THROUGH CORRIDOR.

2 8" X 8" WIREWAY MOUNTED ABOVE CEILING FOR COMMUNICATIONS AND COMPUTER CABLING. RUN FROM COMMUNICAITONS ROOM THROUGH CORRIDOR.

3 EXTEND 3/4" EMPTY CONDUIT (WITH PULLSTRING) FROM WIREWAY IN CORRIDOR TO TELEPHONE OUTLET. ROUTE CONDUIT ABOVE CEILING AND DOWN IN WALL. TYPICAL FOR SINGLE TELEPHONE OUTLET.

4 EXTEND 3/4" EMPTY CONDUIT (WITH PULLSTRING) FROM WIREWAY IN CORRIDOR TO COMPUTER OUTLET. ROUTE CONDUIT ABOVE CEILING AND DOWN IN WALL. TYPICAL FOR SINGLE COMPUTER OUTLET.

5 EXTEND 1" EMPTY CONDUIT (WITH PULLSTRING) FROM WIREWAY IN CORRIDOR TO (2) TELEPHONE OUTLETS. ROUTE CONDUIT ABOVE CEILING AND DOWN IN WALL TO OUTLETS. TYPICAL FOR DOUBLE TELEPHONE OUTLETS.

6 EXTEND 1" EMPTY CONDUIT (WITH PULLSTRING) FROM WIREWAY IN CORRIDOR TO (2) COMPUTER OUTLETS. ROUTE CONDUIT ABOVE CEILING AND DOWN IN WALL TO OUTLETS. TYPICAL FOR DOUBLE COMPUTER OUTLETS.

7 EXTEND 3/4" EMPTY CONDUIT (WITH PULLSTRING) FROM WIREWAY IN CORRIDOR TO TELEVISION OUTLET. ROUTE CONDUIT ABOVE CEILING AND DOWN IN WALL TO OUTLETS.

8 NOT USED

9 PROVIDE DUPLEX OUTLET FOR INVENTORY CONTROL COMPUTER.

10 PROVIDE FLUSH MOUNTED PUSH BUTTON STATION FOR MOTORIZED PROJECTION SCREEN OPERATION CONTROL. ROUTE CONTROL WIRES TO PROJECTION SCREEN'S CONTROLLER.

11 PROVIDE 4" X 4" SURFACE MOUNTED DUCT FOR SPEAKER AND CAMERA CABLING TO EXTEND BELOW RAISED FLOOR TO ABOVE ACOUSTICAL CEILING.

12 PROVIDE 250 VAC, 200 AMP, NON-FUSED, H.D., 3 POLE DISCONNECT FOR AH-4. MOUNT DISCONNECT ON WALL ADJACENT TO UNIT. VERIFY FINAL LOCATION WITH MECHANICAL CONTRACTOR.

13 ROUTE 5# 12 + #12 CND - 3/4"C TO 120 VAC PANEL AS INDICATED FOR ROLL FILTER F-4. MANUAL MOTOR STARTER AND START-STOP BUTTON FURNISHED AND MOUNTED BY MECHANICAL CONTRACTOR. 2# 12 FOR START-STOP BUTTON POWER.

14 2# 12 IS FOR TEMPERATURE SWITCH POWER. TEMPERATURE SWITCH IS SUPPLIED AND MOUNTED BY MECHANICAL CONTRACTOR.

15 MOUNT JUNCTION BOX IN WALL AT 18" AFF FOR FUTURE CONNECTION TO WORKSTATIONS. MOUNT JUNCTION BOXES 6'-0" O.C. ALONG WALLS.

16 PROVIDE JUNCTION BOX MOUNTED ABOVE CEILING WITH 1" EMPTY CONDUIT ROUTED BACK TO ELECTRICAL EQUIPMENT ROOM.

17 ELECTRICAL CONTRACTOR SHALL FURNISH AND WIRE DUCT MOUNTED SMOKE DETECTOR (1 IN SUPPLY, 1 IN RETURN) FOR AH-4. SEE FIRE ALARM RISER DIAGRAM. DETECTORS ARE MOUNTED BY MECHANICAL CONTRACTOR.

RELOCATION NOTES - AC GENERATOR

- Contractor must inspect the site & existing installation.
- Relocate existing 30KW AC Generator and all associated equipment to this location.
- Mount associated equipment on west retaining wall.
- Architect to design & furnish enclosure. Clear height in enclosure to be 9'-0" AFF.
- Reconnect relocated AC Generator to Anderson Hall existing emergency circuits.
- Routing of conduits to be a field condition. University approval must be obtained before installation of any conduit or equipment.
- Install 1 Type "H" & 1 TYPE H-1 RLM lighting fixtures. Chain mounted 8'-0" AFF with wall switch at door. FIXTURE TO HAVE LOW TEMP. BALLAST.
- Connect new 20A-1P, 120V, GFI receptacle to emergency panelboard in MCC-EMP.

NOTES: DC GENERATOR

- Contractor must inspect the site and existing conditions.
- Relocate existing DC Generator and all associated equipment to alocation in the Anderson Hall basement Mechanical Room. The exact location will be indicated during site inspection.
- Construct a "Unistrut Type" support frame to mount associated equipment. Locate frame adjacent to generator.
- Provide drip shield to under side of piping above generator to prevent dripping on generator.
- Reconnect relocated DC Generator to existing circuits.
- Routing of conduits to be a field condition. University approval must be obtained before installation of any conduit or equipment.

NOTES: COMMUNICATION CONDUIT

- Others will install 4-4" conduits and stub up along north face of south wall of Anderson Hall basement Mechanical Room. See Drawing E-2 for approximate location of stub-ups.
- This contractor to extend 4-4" conduit (with fishwire) exposed through Mechanical Room to Communication Room No. 89. Terminate bushed conduits in Room.
- Exact routing of conduit to be determined in field. University approval must be obtained before installation of conduit.

STATE OF KENTUCKY HERBERT N. NICHOLS 14967 PROFESSIONAL ENGINEER

871016

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved by ____ director - design and construction division ____ date

ELECTRICAL DRAWING NOTES

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606-254-1351

JOB NO.	8706
DATE	9-30-87
DRAWN	D. MEYER
CHECKED	M. GOLDBERG
UK FILE NO	

REVISIONS
3-90% REVIEW 10-16-87
4-GENERAL 7-18-88
5-RENOVATION 2-16-90

AS BUILT
3-1-9.

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CE-021-4

SHEET
E•21

Cab #	Slot	Document #
83	B-2	004987

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	LAMP	MFR. NO.
A	WALL MOUNTED VAPORTIGHT INCANDESCENT WITH CAST ALUMINUM HOUSING & GUARD, TEMPERED GLASS GLOBE U.L. WET LABEL	1-150W A-21	HUBBELL VW-151 EQUALS BY GE OR ARROW HART
B	2X4 FLUORESCENT TROFFER MOUNTING IN 2X2 CEILING BAKED WHITE ENAMEL FINISH. ALUMINUM DOOR WITH MITERED CORNERS. ENERGY SAVING BALLAST. .125" MINIMAL LENS THICKNESS.	4-FT12CW 40W	DAYBRITE CG244-CFA02D-ESB-120 EQUALS BY COLUMBIA BENJAMIN
B-1	SAME AS TYPE 'B' BUT W/ EMERGENCY BALLAST	4 FT12CW 40W	DUAL-LITE UFO-2X EQUAL BY CHLORIDE
C	SAME AS TYPE "B" BUT WITH DIMMING BALLAST	4-FT12CW 40W	DAYBRITE CG244-CFA 12D DIMMING-120 EQUALS COLUMBIA, BENJAMIN
C-1	SAME AS TYPE 'C' BUT WITH EMERGENCY BALLAST	4-FT12CW. 40W	DUAL - LITE UFO-2X EQUAL BY CHLORIDE
D	PENDANT MOUNTED H.I.D. WITH DIE CAST BALLAST HOUSING, WITH HEAVY GAUGE ALUMINUM REFLECTOR WITH SEMI-SPECULAR FINISH WITH POWER HOOK MOUNTING ASSEMBLY	1-400W METAL HALIDE	DAYBRITE HB40MH-120 -S16 EQUALS BY GE HUBBELL
D-1	SAME AS TYPE D BUT WITH QUARTZ RESTRIKE	1-400 WATT METAL HALIDE 1-QUARTZ MANF. STANDARD	DAYBRITE HB40MH-120-S16 - QZ EQUALS BY GE HUBBELL
E	NOT USED.		
F	RECESSED INCANDESCENT WITH GOLD ALZAK REFLECTOR WITH TRIM RING 6-3/4" APERATURE	1-200W A-23	MARCO D302203 EQUALS BY PRESCOLITE KURT VERSEN
F-1	SAME AS TYPE 'F' BUT DIFFERENT LAMP	1-200W A-23 130VOLT	MARCO D302203 EQUAL BY KURT VERSEN, PRESCOLITE
G	CHAIN SUSPENDED FLUORESCENT INDUSTRIAL WITH HIGH REFECTANCE FINISH 25% UPLIGHT. 96" LONG WITH END PLATES AND ENERGY SAVING BALLAST	4-FT12CW 40W	DAYBRITE R-41252W-8 EQUAL BY KEYSTON BENJAMIN
G-1	SAME AS TYPE "G" BUT WITH EMERGENCY BALLAST	4-FT12CW 40W	DUAL-LITE UFO-2X EQUALS BY CHLORIDE
H	SAME AS TYPE G BUT 48" LONG	2-FT12 CW 40 W	DAYBRITE R-41252W-4 EQUALS BY KEYSTONE BENJAMIN
H-1	SAME AS TYPE H BUT WITH EMERGENCY BALLAST	2FT12CW 40W	DUAL-LITE UFO-2X EQUAL BY CHLORIDE
J	CHAIN SUSPENDED 48" LONG FLUORESCENT CHANNEL	2-FT12CW 40W	DAYBRITE C-240 OR EQUAL BY KEYSTONE BENJAMIN
~~K~~	~~WALL MOUNTED FLUORESCENT WITH UP AND DOWN LIGHT. 4'-0" LONG, 7-5/8" DEEP .125 VIRGIN ACRYLIC LENS, WHITE EXTERIOR FINISH~~	~~2-FT12CW 40 W~~	~~BENJAMIN CZX-2224-4 OR EQUAL BY KEENE~~
K-1	TYPE "K-1" C240-ES-120 W/F40CW		
L	1X4 RECESSED FLUORESCENT TROFFER MOUNTING IN 2X2 CEILING ALUMINUM DOOR WITH MITERED CORNERS AND ENERGY SAVING BALLAST .125 ACTUAL LENS THICKNESS	2-FT12CW 40 W	DAYBRITE SG142-SFA 12A-ESB EQUALS BY COLUMBIA BENJAMIN
M	12" ROUND 8" HIGH RECESSED H.I.D. WITH FLAT FRESNEL LENS INNER GRAY TRIM OUTER WHITE TRIM	1-175 WATT METAL HALIDE	MARCO LR611742-GP EQUALS BY PRESCOLITE KURT VERSEN
M-1	SAME AS TYPE 'M' BUT WITH QUARTZ RESTRIKE	1-175 WATT METAL HALIDE 1-QUART RESTRIKE	MARCO LS616850-KP/11 EQUALS BY PRESCOLITE KURT VERSEN
N	WALL MOUNTED H.I.D. WITH BRONZE FINISH DIECAST ALUMINUM HOUSING WITH HIGH IMPACT ACRYLIC LENS	1-175 WATT METAL HALIDE	DAYBRITE WL17MHDT EQUALS BY GENERAL ELECTRIC HUBBELL
P-1	TYPE "P1" C230-ES-120 W/F30CW		
P	24" WALL MOUNTED FLUORESCENT WITH UP AND DOWN LIGHT .125 VIRGIN ACRYLIC LENS, WHITE EXTERIOR FINISH	2-FT12CW 20 WATT	BENJAMIN CZW 2222-2 OR EQUAL BY KEENE
Q	10" WALL MOUNTED INCANDESCENT GLOBE. GLOBE TO BE BRONZE GLASS WITH BLACK HOUSING	1-100W A-19	HADCO B-4461-R PRESCOLITE SPAULDING
R	SEMI-RECESSED WALL MOUNTED H.I.D. 12" SQ. CAST ALUMINUM HOUSING DARK BRONZE FINISH TEMPERED GLASS	1-100W MERCURY VAPOR	MOLDCAST MDL-2-02-11 -12-TPH OR EQUAL BY KIM
S	2X4 FLUORESCENT TROFFER WITH ACTUAL .125 ACRYLIC LENS AND LOW TEMPERATURE BALLAST	4-FT12CW 40 WATT	DAYBRITE CG244-CFA 12D-120-LT EQUALS BY COLUMBIA BENJAMIN
T	WALL MOUNTED FLUORESCENT DARK BRONZE FINISH POLYCARBONATE LENS	2-PLT 7 WATT TWIN TUBES	FAIL SAFE FBP144-120
U	SAME AS TYPE 'R' BUT WITH DIFFERENT DISTRIBUTION	1-100W MERCURY VAPOR	MOLDCAST MDL-3-02-11 12-PTH OR EQUAL BY KIM
V	SURFACE MOUNTED H.I.D. WITH DIE CAST ALUMINUM HOUSING AND GASKETED LENS WET LABLE	1-175W METAL HALIDE	PRESCOLITE HV13C06 EQUALS BY ALKCO MCPHILBEN
V-1	SAME AS TYPE V BUT WITH QUARTZ RESTRIKE	1-175W METAL HALIDE	HV13C06-MM EQUALS BY ALKCO MCPHILBEN
W	RECESSED 8'-0 TRACK SINGE CIRCUIT WITH WHITE FINISH. TO BE RECESSED IN SUSPENDED CEILING WITH HEADS BLACK FINISH AND BARN DOORS NO. OF HEADS AS INDICATED ON DRWGS.	1-150W R-40	PRESCOLITE T114-BL-T64 EQUALS BY MARCO
X	UNIVERSAL MOUNTED EXIT SIGN (CEILING,WALL,END) WITH RED LETTERS, BRUSHED ALUMINUM HOUSING AND FLUORESCENT LAMPS. DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS	MANF. STD.	DUAL-LITE 6WRNN-EL EQUALS BY PRESCOLITE
Y	SINGLE LAMP FLUORESCENT PENDANT MOUNTED 6"X 6" SQUARE SYMMETRICAL REFLECTOR. END TO END CONTINUOUS MOUNTING. WALL TO WALL INSTALLATION FACTORY WIRED. SUSPENDED BY AIRCRAFT CABLE. NON-ILLUMINATING TELESCOPING MEMBERS. 1/2" X 1/2" X 1/2" GOLD PARACUBE LENS. HOUSING TO BE STEEL AND FINISH BY ARCHITECT. START FEED TO THRU END.	1-FT12CW 40W	COLUMBIA S6-12-31 EQUALS BY PEERLESS & LITE CONTROL
B-2	SAME AS TYPE "B" EXCEPT TO BE 1 X 4	2-FT12CW 40W	DAYBRITE CG142-C02A-120 EQUALS BY COLUMBIA BENJAMIN
B-3	SAME AS TYPE "B" EXCEPT TO HAVE PARABOLIC LENS	4-FT12CW 40W	DAYBRITE CG244-C02A-120 EQUALS BY COLUMBIA BENJAMIN

SYMBOL LEGEND

- 2X4 FLUORESCENT LUMINAIRE. a/b DENOTES EACH BALLAST CONTROLLED BY SEPERATE SWITCH
- 2X4 FLUORESCENT LUMINAIRE WITH ONE BALLAST CONNECTED TO EMERGENCY PANEL
- EXIT SIGN (CONNECT TO EMERGENCY PANEL)
- LUMINAIRE TYPE (SEE LUMINAIRE SCHEDULE)
- SEE DRAWING NOTE 2
- DUPLEX RECEPTACLE MOUNTED 18" AFF UNLESS OTHERWISE NOTED
- HOMERUN DESIGNATION. LP-A DESIGNATES PANEL, 5 DESIGNATES CIRCUIT
- JUNCTION OR OUTLET BOX
- RACEWAY CONCEALED IN WALL OR CEILING
- RACEWAY EXPOSED
- TELEPHONE OUTLET MOUNTED 18" AFF UNLESS OTHERWISE NOTED
- WALL MOUNTED LUMINAIRE
- SMOKE DETECTOR
- SMOKE DETECTOR FOR ELEVATOR LOBBY
- SMOKE DETECTOR MOUNTED UNDER FLOOR
- MANUAL PULL STATION
- FIRE ALARM SPEAKER
- 208 VAC, 3 PHASE, 30 AMP OUTLET. 4 #10 + #10 GND TO OUTLET. VERIFY TERMINATION CONFIGURATION.
- 208 VAC, 1 PHASE, 30 AMP OUTLET. 2 #10 + #10 GND TO OUTLET VERIFY TERMINATION CONFIGURATION.
- FLUSH FLOOR OUTLET
- PHOTOCELL
- 8" X 8" TELEPHONE WIREWAY
- 8" X 8" COMMUNICATIONS WIREWAY
- COMPUTER OUTLET WITH GROMMETTED FACE PLATE MOUNTED 18" AFF
- CLOCK OUTLET
- CONDUIT TURNING DOWN
- TELEVISION OUTLET WITH GROMMETTED FACE PLATE MOUNTED 18" AFF
- DOUBLE DUPLEX RECEPTACLE
- GROUNDING OUTLET MOUNTED UNDER RAISED FLOOR.
- DUPLEX RECEPTACLE: -G INDICATES GFI -W INDICATES WEATHERPROOF
- BELL
- SINGLE POLE WALL SWITCH; a DENOTES LOAD SWITCHED. 3=3WAY; 4=4WAY; D=DIMMER SWITCH; PL=PILOT LIGHT. ALL SWITCHES MOUNTED 48" AFF.
- NON-FUSED DISC. SWITCH, NEMA 1 - UNLESS NOTED OTHERWISE.
- MAGNETIC MOTOR STARTER
- PUSH-BUTTON STATION

5

- HOMERUN W/3Ø CONDUCTORS, 1 NEUTRAL & 1 GROUND CONDUCTOR, ALL #12 IN 3/4"C., UNLESS MARKED OTHERWISE
- JUNCTION BOX ABOVE CEILING W/VERTICAL FLEXIBLE CONDUIT DROP INCLUDING CONDUCTORS. INSTALL LENGTH TO FLOOR PLUS 3 FEET. COIL & PROTECT.
- POWER POLE WITH POWER RECEPT'S & COMPUTER OUTLET
- KEYPAD & DOORLOCK MECHANISM
- ALARM INDICATOR LIGHT & SIREN
- INFARED MOTION DETECTORS

AS BUILT
3-1-91

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CE-022-4

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

STATE OF KENTUCKY HERBERT R. NICHOLS 871016

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved by: director - design and construction division
date 10.19.87

LUMINAIRE SCHED. & SYMBOLS

Sherman · Carter · Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606 254-1351

JOB NO. 8706
DATE 9-30-87
DRAWN D. MEYER
CHECKED M. GOLDBERG
UK FILE NO. 431.0

REVISIONS
3-90% REVIEW 10-16-87
4-GENERAL 7-18-88
5-RENOVATION 2-16-90

SHEET
E•22

Cab # 83 Slot B-2 Document # 004988

MAIN SWITCHBOARD

SUBSTATION

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

HERBERT R. NICHOLS
871016

SINGLE LINE DIAGRAM
NO SCALE

AS BUILT

3-1-91

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CE-023-4

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved by
director - design and construction division
10.19.87
date

SINGLE LINE DIAGRAM

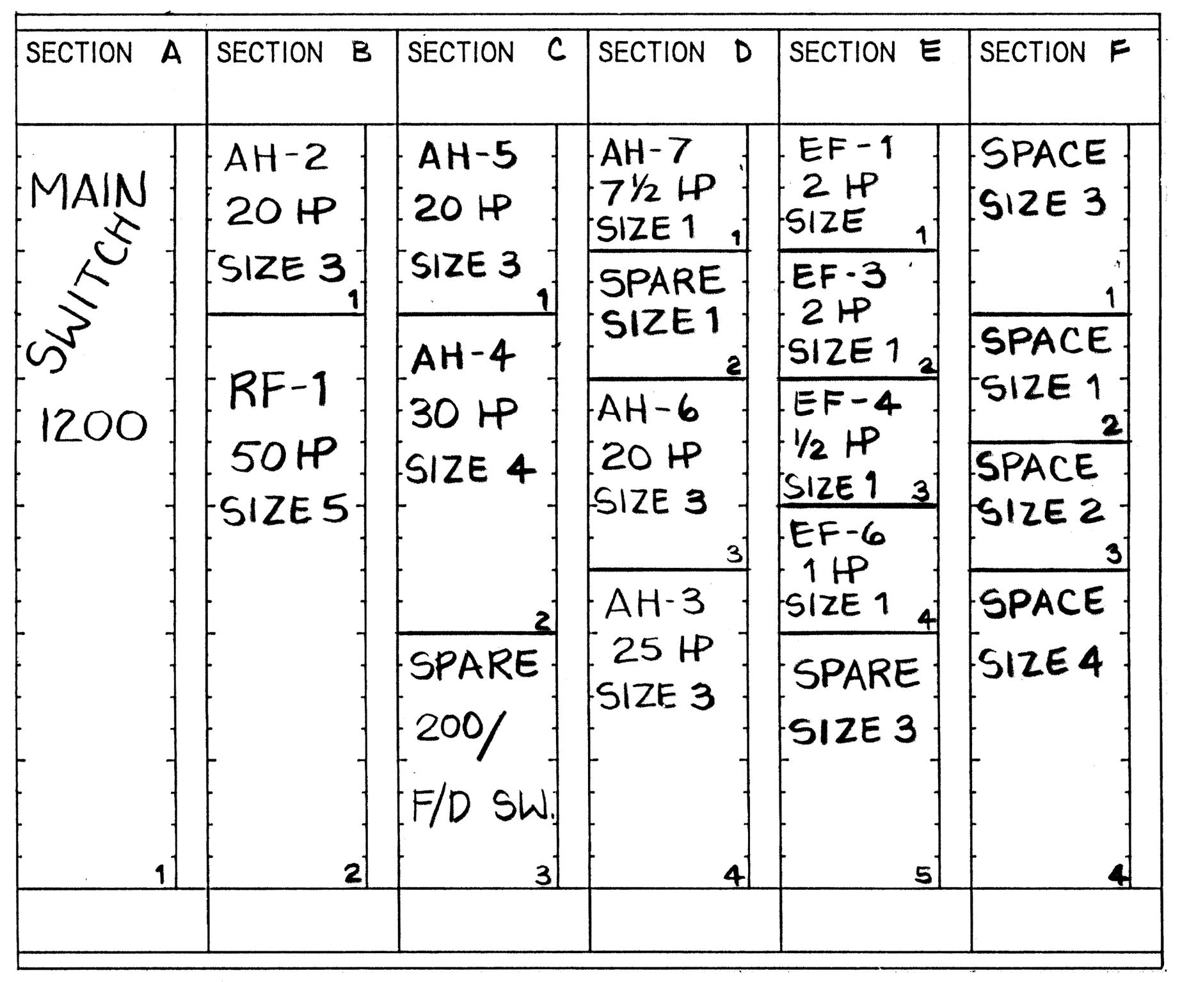
Sherman · Carter · Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606-254-1351

JOB NO. 8706
DATE 9-30-87
DRAWN D. MEYER
CHECKED M. GOLDBERG
UK FILE NO 431.0

REVISIONS
3- 90% REVIEW 10-16-87
4- GENERAL 7-18-88
5- RENOVATION 2-16-90

SHEET
E•23

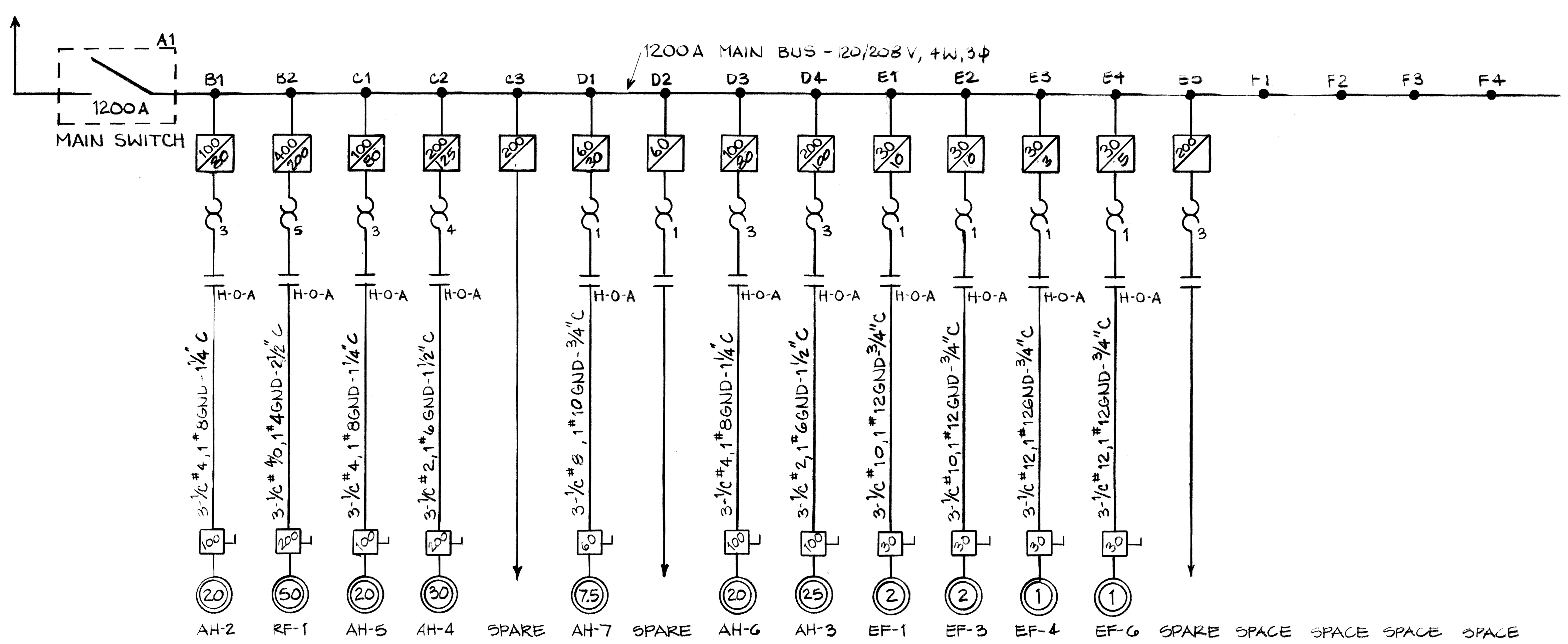
Cab.# 83 Slot B-2 Document # 0049989



FRONT ELEVATION MCC-1

Unit Location	Circuit Designation (Name Plate Details)	Unit Type	NEMA Size	HP	C/B Trip Fuse Clip Size	Space (inches)	UNIT FEATURES
A-1	Main Disconnect Switch				1200		
B-1	AH-2	FVNR	3	20	100/400A		H-O-A
B-2	RF-1	FVNR	5	50	400/225A		H-O-A
C-1	AH-5	FVNR	3	20	100/100A		H-O-A
C-2	AH-4	FVNR	4	30	200/150A		H-O-A
C-3	SPARE	F-D			200/		
D-1	AH-7	FVNR	1	7.5	60/40A		H-O-A
D-2	Spare	FVNR	1		60/		
D-3	AH-6	FVNR	3	20	100/100A		H-O-A
D-4	AH-3	FVNR	3	25	200/125A		H-O-A
E-1	EF-1	FVNR	1	2	30/15A		H-O-A
E-2	EF-3	FVNR	1	2	30/15A		H-O-A
E-3	EF-4	FVNR	1	½	30/10A		H-O-A
E-4	EF-6	FVNR	1	1	30/10A		H-O-A
E-5	Spare	FVNR	3		200/		
F-1	Space		3				
F-2	Space		1				
F-3	Space		2				
F-4	Space		4				

MCC-1 SCHEDULE



MCC-1 SINGLE LINE DIAGRAM

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

871016

ROBOTICS FACILITY

LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by
director - design and construction division
date 11-19-87

MCC RISER & DIAGRAM

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE

JOB NO 8706
DATE 9-30-87
DRAWN D. MEYER
CHECKED M. GOLDBERG
UK FILE NO

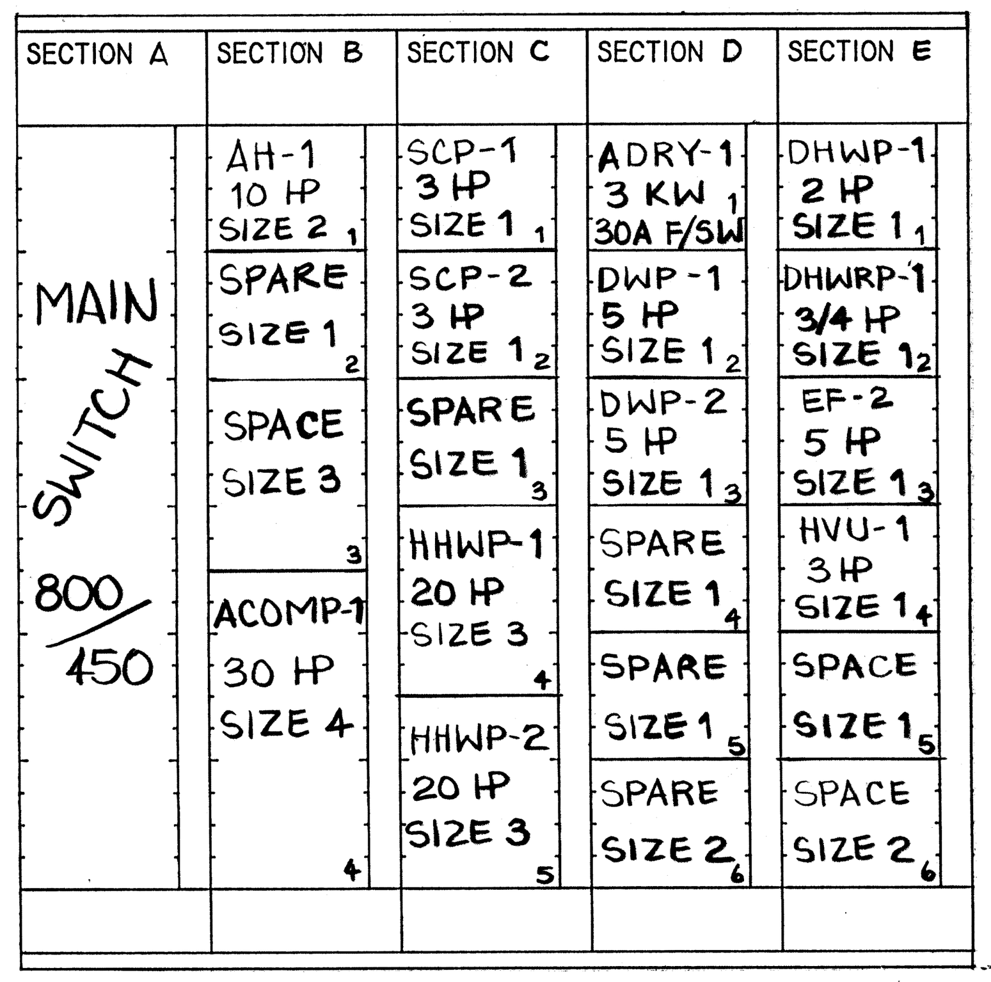
REVISIONS
3-90% REVIEW 10-16-87
4-GENERAL 7-18-88

AS BUILT
3-1-..1

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CE-024-4

SHEET
E•24

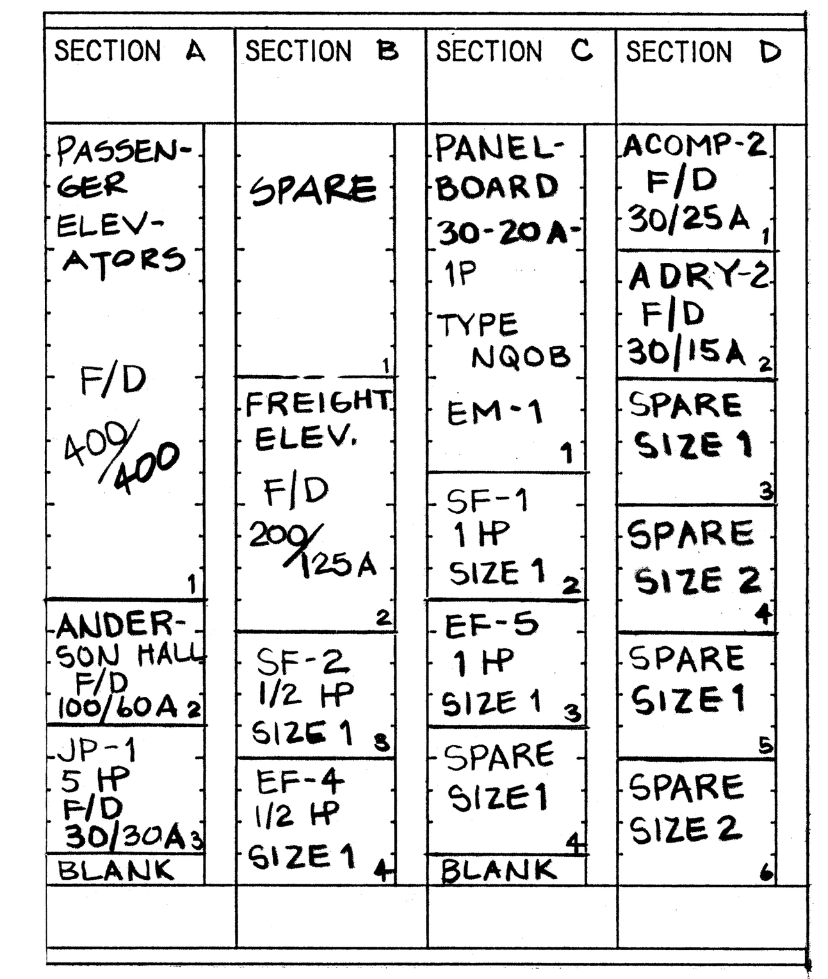
Cab # 83 Shelf B-2 Document # 004990



FRONT ELEVATION MCC-2

Unit Location	Circuit Designation (Name Plate Details)	Unit Type	NEMA Size	HP	C/B Trip Fuse Clip Size	Space (inches)	UNIT FEATURES
A-1	Main Disconnect Switch				800		
B-1	AH-1	FVNR	2	10	60/50A		H-O-A
B-2	SPARE	FVNR	1		30		
B-3	Space		3				
B-4	Acomp-1	F/D		30	200/150A		
C-1	SCP-1	F/D		3	30/20A		
C-2	SCP-2	F/D		3	30/20A		
C-3	Spare	FVNR	1		30/		
C-4	HHWP-1	FVNR	3	20	100/100A		H-O-A
C-5	HHWP-2	FVNR	3	20	100/100A		H-O-A
D-1	ADRY-1	F/D		3KW	30/15A		
D-2	DWP-1	F/D		5	30/30A		
D-3	DWP-2	F/D		5	30/30A		
D-4	Spare	FVNR	1		30/		
D-5	Spare	FVNR	1		30/		
D-6	Spare	FVNR	2		60/		
E-1	DHWP-1	FVNR	1	2	30/15A		Start-Stop
E-2	DHWRP-1	FVNR	1	3/4	30/6A		Start-Stop
E-3	EF 2	FVNR	1	5	30/30A		H-O-A
E-4	HVU-1	FVNR	1	3	30/15A		H-O-A
E-5	MONORAIL	F/D	-	3/4	30/15A	-	
E-6	MONORAIL HOIST	F/D	-	3	30/20A		

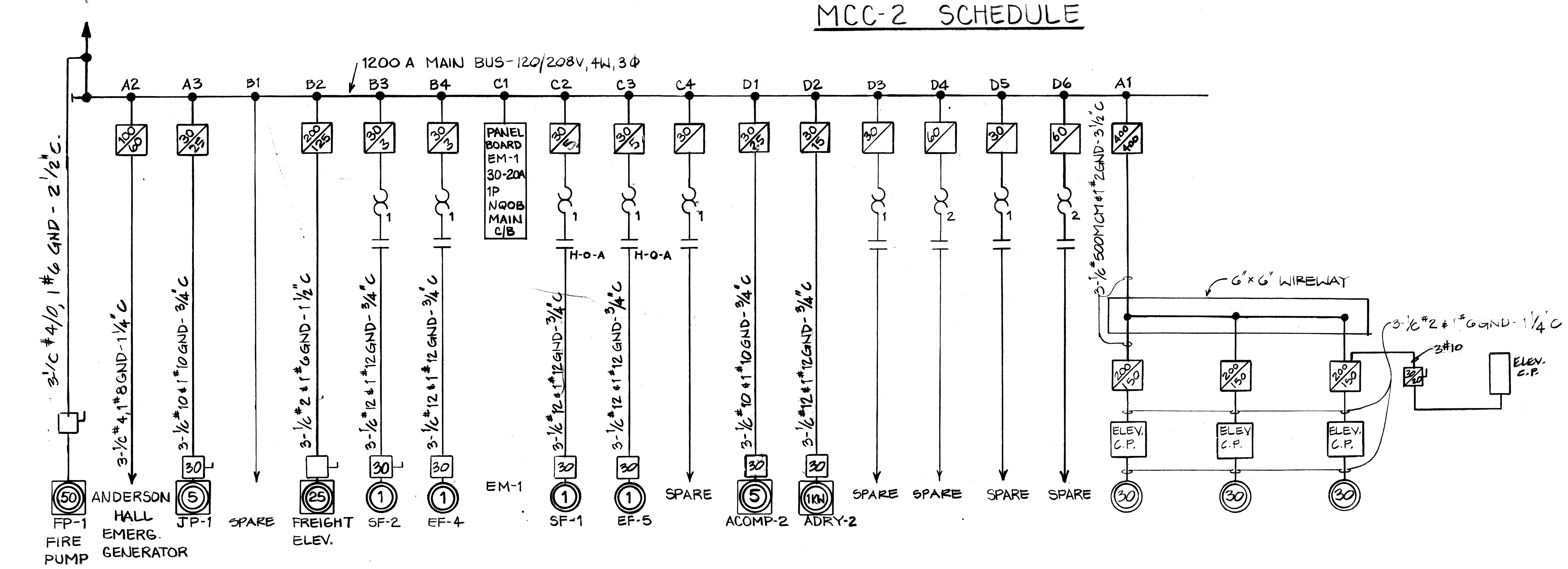
MCC-2 SCHEDULE



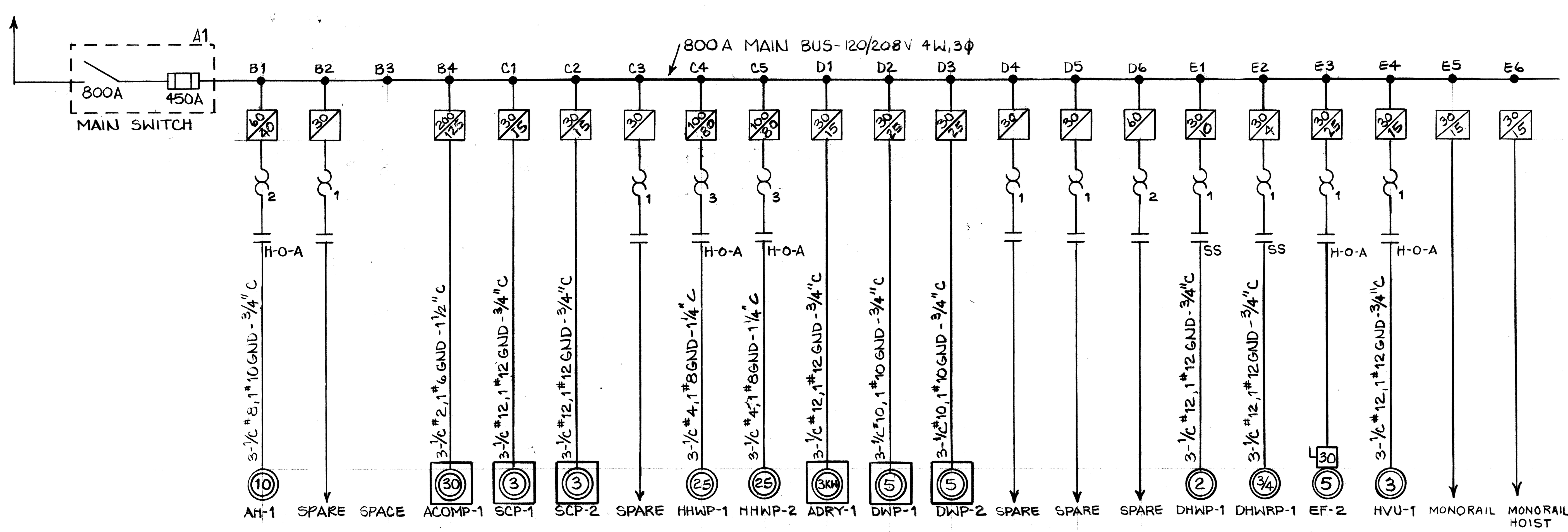
FRONT ELEVATION MCC-EMP

Unit Location	Circuit Designation (Name Plate Details)	Unit Type	NEMA Size	HP	C/B Trip Fuse Clip Size	Space (inches)	UNIT FEATURES
A-1	PASSENGER ELEVATORS	F/D		3-30	400/400A		
A-2	Anderson Hall Emerg.	F/D		18KW	100/60A		
A-3	Jockey Pump JP-1	F/D		5	30/30A		
B-1	SPARE	F/D		30	200/		
B-2	Freight Elev.	F/D		25	200/125A		
B-3	SF-2	FVNR	1	1	30/10A		
B-4	EF-4	FVNR	1	1	30/10A		
C-1	Emergency Panelboard EM-1						100A-3P Main C/B
C-2	SF-1	FVNR	1	1	30/10A		H-O-A
C-3	EF-5	FVNR	1	1	30/10A		H-O-A
C-4	Spare	FVNR	1		30/		H-O-A
D-1	Acomp-2	F/D		5	30/30A		
D-2	ADRY-2	F/D		1KW	30/15A		
D-3	Spare	FVNR	1		30/		
D-4	Spare	FVNR	2		60/		
D-5	Spare	FVNR	1		30/		
D-6	Spare	FVNP	2		60/		

MCC-EMP SCHEDULE



MCC-EMP SINGLE LINE DIAGRAM



MCC-2 SINGLE LINE DIAGRAM

SYMBOLS:

- FUSED DISCONNECT SWITCH
- STARTER-NUMBER INDICATES STARTER SIZE
- CONTACT IN STARTER H-O-A = TYPE OF CONTROL

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

STATE OF KENTUCKY HERBERT R. NICHOLS 14967 REGISTERED PROFESSIONAL ENGINEER
87/10/6

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved by
director - design and construction division
10·19·87
date

MCC RISERS & DIAGRAMS

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606 254 1351

JOB NO. 8706
DATE 9-30-87
DRAWN D. MEYER
CHECKED M. GOLDBERG
UK FILE NO 431.0

REVISIONS
3-95% REVIEW 10-16-87
4-GENERAL 7-18-88

AS BUILT
3-1-91

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CE-025-4

SHEET
E•25

Cab #	Slot	Document #
83	B-2	004991

LP-A PANELBOARD SCHEDULE BASEMENT

LOAD DESCRIPTION	CKT. NO.	CKT. BKR	CONNECTED KVA A	B	C	CKT. BKR	CKT. NO.	LOAD DESCRIPTION
LGTS RMS 309, 310, 311, 312	1	20	.85		1.5	20	2	RECEPTS RMS 305, 306
LGTS RM 308 (WEST)	3	20	.7		.7	20	4	RECEPTS RMS 303, 304
LGTS RM 308 (EAST)	5	20	1.1		.8	20	6	COMPUTER OFFICE
LGTS RMS 313, 314	7	20	1.1	.8		20	8	STORAGE
LGTS RM 317 (WEST)	9	20	1.6		.8	20	10	RECEPTS ROOM 320
LGTS ROOM 318	11	20	1.0		.9	20	12	RECEPTS RMS 322, 323, 325
LGTS ROOM 318	13	20	1.0	3.6		20	14	RECEPTS RM 311
LGTS ROOM 302	15	20	1.2		.5	20	16	BELL CIRCUIT
LGTS RMS. 303, 304, 305, 306	17	20	1.7		.5	20	18	CLOCK CIRCUIT
LGTS RMS 320 322-325	19	20	1.1	.2		20	20	RECEPTS ROOM 301
LGTS & RECEPTS ELEV. PITS	21	20	1.3		.2	20	22	RECEPTS CORRIDOR RM 308
LAB ROOM 317 (EAST)	23	20	1.6		.2	20	24	RECEPTS CORRIDOR RM 308
SPARE	25	20		.15		20	26	30KW GEN ROOM
RECEPTS ROOM 318 (EAST)	27	20	1.5		.4	20	28	RECEPTS ROOM 311
COMMUNICATION RM REC	29	20		.36		20	30	SPARE
SPARE	31	20				20	32	
	33	20				20	34	
	35	20				20	36	
	37						38	
	39						40	
	41						42	
Φ KW TOTALS			10.3	8.9	7.8			

VOLTAGE: 120/208 VAC, 3Φ, 4W
MAIN LUGS:
MAIN BREAKER 125A

TOTAL KW. CONNECTED: 27
TOTAL KW. DEMAND : 27
76A

FEEDER SIZE: SEE DWG. E-23
FED FROM : MAIN SW. BD

LP-B PANELBOARD SCHEDULE FIRST FLOOR

LOAD DESCRIPTION	CKT. NO.	CKT. BKR	CONNECTED KVA A	B	C	CKT. BKR	CKT. NO.	LOAD DESCRIPTION
MACHINE BAY LTG. B07	1	20	1.4		.72	20	2	2ND FLR SECTRY. RECEPT RM 236
MACHINE BAY LTG. B07	3	20		1.4	.72	20	4	BLDG. STORAGE RECEPT RM 108
MACHINE BAY LTG. B07	5	20		1.4	.2	20	6	RECEPT VENDING ROOM 111
MACHINE BAY LTG. B07	7	20	1.4		.2	20	8	
LGTS. RMS 115, 116, 117	9	20	.8		.2	20	10	
SERVICE CONNECTOR (EXTERIOR)	11	20		1.2	.2	20	12	
CANOPY LTG	13	20	1.2		.2	20	14	WATER COOLER RM 111
CANOPY LTG.	15	20	1.2		.72	20	16	COMM. RM 117 RECEPTS
STUDENT COMM. LTG. RM 114	17	20		1.6	.4	20	18	RECEPT ROOM 114
STUD. COMM. LTG. RMS 111, 113, 110	19	20	1.0		.2	20	20	RECEPT ROOM 114
LTG. Rooms 109, 112	21	20	1.2		.72	20	22	RECEPT ROOM 109
LTG. RECEPTION RM 109	23	20		1.6	.9	20	24	RECEPT ROOM 101
LTG. RECEPTION RM 109	25	20	1.6		.7	20	26	RECIEVING AREA #104, 106 RECEPTS
LTG. RECEPTION RM 101	27	20	1.6			20	28	SPARE
LTG. ROOMS 101, 102	29	20		1.6	.72	20	30	COMM. ROOM 117 RECEPTS
LTG. ROOMS 106, 107, 108	31	20	1.6		.2	20	32	STUD. COMMONS RM 109 RECEPT
LTG. ROOMS 103, 104, 105, 106	33	20		1.6	.2	20	34	
EXTERIOR STAIR LTG	35	20		1.5	.2	20	36	
CANOPY LIGHTING	37	20	.8		.36	20	38	COMMUNICATION RM REC
SPARE	39	20				20	40	SPARE
↓	41	20				20	42	SPARE
Φ KW TOTALS			11.22	10.36	11.52			

VOLTAGE: 120/208 VAC, 3Φ, 4W
MAIN LUGS:
MAIN BREAKER 150A

TOTAL KW. CONNECTED: 33.1
TOTAL KW. DEMAND : 33.1
93A

FEEDER SIZE: SEE DWG E-23
FED FROM : MAIN SW. BD.

LP-C PANELBOARD SCHEDULE SECOND FLOOR

LOAD DESCRIPTION	CKT. NO.	CKT. BKR	CONNECTED KVA A	B	C	CKT. BKR	CKT. NO.	LOAD DESCRIPTION
DIR. OFF. LTG. RMS 226, 227, 228	1	20	1.2		.4	20	2	COMMUNICATION RECEPT.
LTG. RMS 230, 232, 233	3	20		1.6	.4	20	4	COMMUNICATION RECEPT.
SECTRY. WAITING LTG. RM. 231	5	20		1.8	1.5	20	6	DIRECTOR RECEPTACLES
LTG. ROOM 236	7	20	1.4		1.5	20	8	DIRECTOR RECEPTACLES
DIR. & BUS. LTG. RMS. 240, 241	9	20		1.2	1.5	20	10	DIRECTOR RECEPTACLES
CONF. & ENG. OFF. LTG. RMS. 242, 243	11	20		1.2	1.3	20	12	LIASON RECEPTACLES
PROJ. ENG. LTG. RMS 244, 245	13	20	1.2		.2	20	14	COPIER
LTG. RMS 234, 235, 237, 238	15	20	.9		1.5	20	16	DIRECTOR RECEPTACLES
CORRIDOR LTG RM 207	17	20		.7	1.7	20	18	CONFERENCE RECEPT. *
CORRIDOR LTG RM 207	19	20	1.1		1.7	20	20	ENGINEER RECEPTACLES
SEMINAR LTG RM 221	21	20	1.6		.72	20	22	COUNTER RECEPTACLES
LTG. RMS 217, 218, 219, 220	23	20		1.3	.2	20	24	REFRIGERATOR
VISITOR LTG RMS 213, 214, 215, 216	25	20	1.6		1.5	20	26	CONT. ED RECEPTACLES
VISITOR LTG. RMS 208, 210, 211, 212	27	20		1.6	.25	20	28	PEDWAY LIGHTING
GRAPHICS W/K STA. LTG. RM 209	29	20		1.6	.36	20	30	COMMUNICATION RM REC
GRAPHICS W/K STA. LTG. RM 209	31	20	1.6			20	32	SPARE
GRAPHICS W/K STA. LTG. RM 209	33	20		1.6		20	34	
GRAPHICS W/K STA. LTG. RM 209	35	20		1.6		20	36	
TOILET LTG RMS 202 THRU 206	37	20	.9			20	38	
ELECT. RM LTG. RMS. 223, 224, 225	39	20		.8		20	40	
WEST CORRIDOR LTG	41	20		.4		20	42	
Φ KW TOTALS			14.3	13.7	13.3			

VOLTAGE: 120/208 VAC, 3Φ, 4W
MAIN LUGS:
MAIN BREAKER 150A

TOTAL KW. CONNECTED: 41.3
TOTAL KW. DEMAND : 41.3
116A

FEEDER SIZE: SEE. DWG. E-23
FED FROM : MAIN SW. BD.

* GFI BREAKER

NOTE:
1. EACH PANEL SHALL HAVE SEPARATE NEUTRAL AND GROUNDING BUSS

LP-D PANELBOARD SCHEDULE THIRD FLOOR

LOAD DESCRIPTION	CKT. NO.	CKT. BKR	CONNECTED KVA A	B	C	CKT. BKR	CKT. NO.	LOAD DESCRIPTION
LTG. RMS 313, 314, 315, 316	1	20	1.2		.36	20	2	RECEPTS RM 315
LTG. RMS 320, 321	3	20	1.2		1.7	20	4	RECEPTS RMS 320, 321 RESEARCH
LTG. RMS 322, 323	5	20		1.2	1.8	20	6	RESEARCH RECEPTS RMS 322, 323
CORRIDOR LTG. RM 319	7	20	1.4		.2	20	8	UNIT HTR UH-5 RECEPT RM 313
LTG RM. 317, 318	9	20	1.8			10		SPARE
CORRIDOR LIGHTING RM 307	11	20			.7	20	12	ELECT. WTR. CLR. RECEPT RM 303
CORRIDOR LIGHTING RM 307	13	20	1.1		.2	20	14	CORRIDOR RECEPT NEAR 317
LTG. RMS 302-306, 327	15	20	1.3		.5	20	16	BELL CIRCUIT
BALCONY LIGHTING	17	20		.85	.5	20	18	CLOCK CIRCUIT
COMMUNICATION RM REC	19	20	.36		.2	20	20	CORRIDOR RECEPT NEAR RM 318
SPARE	21	20			.2	20	22	CORRIDOR RECEPT NEAR RM 315
↓	23	20			.36	20	24	RECEPT ROOM 313
PERSONAL COMP. RM 325 LTG	25	20	1.1		.2	20	26	ROLL FILTER F-4 ROOM 313
PERSONAL COMP. RM 325 LTG	27	20	1.1		.36	20	28	COMM. ROOM RECEPT RM 315
FACULTY LNG. LTG. RM 326	29	20	1.4		1.0	20	30	POWER POLE COL C-5
FACULTY LNG. LTG. RM 326	31	20	1.4	1.0		20	32	POWER POLE COL C-5
SPARE	33	20		.72		20	34	RECEPT'S COL C-5
↓	35	20			.54	20	36	RECEPT'S COL D-2
	37	20				20	38	
	39	20				20	40	
	41	20				20	42	
Φ KW TOTALS			7.36	8.16	7.91			

VOLTAGE: 120/208 VAC, 3Φ, 4W
MAIN LUGS:
MAIN BREAKER 125A

TOTAL KW. CONNECTED: 23.43
TOTAL KW. DEMAND : 23.43
67A

FEEDER SIZE: SEE DWG. E-23
FED FROM : MAIN SW. BD.

LP-E PANELBOARD SCHEDULE FOURTH FLOOR

LOAD DESCRIPTION	CKT. NO.	CKT. BKR	CONNECTED KVA A	B	C	CKT. BKR	CKT. NO.	LOAD DESCRIPTION
ELECT. RM LTG RMS 420, 421, 422	1	20	.6		1.6	20	2	VISITOR LTG. RMS 409, 410, 411, 413
CORRIDOR LTG RM 407	3	20		1.5	1.3	20	4	VISITOR RECEPTS RMS 418, 419
CORRIDOR LTG RM 407	5	20		1.1	1.6	20	6	VISITOR RECEPTS RMS 415, 417, 418
LAB LIGHTING RM 425, 427	7	20	1.6		1.5	20	8	VISITOR RECEPTS RMS 410, 411, 413
LAB LIGHTING RM 429, 431	9	20		1.6	1.5	20	10	VISITOR RECEPTS RMS 409, 410
LAB LIGHTING RM 433, 434	11	20		1.6	1.1	20	12	ELECT. WTR CLR RECEPT. RM 403
LAB LIGHTING RM 437, 438	13	20	1.6		.4	20	14	COMM ROOM 422 RECEPT.
LAB LIGHTING RM 424, 426	15	20		1.6	.2	20	16	CORRIDOR RECEPT. RM 407
LAB LIGHTING RM 428, 432	17	20		1.6	.6	20	18	CORRIDOR RECEPT. RM 430
CORRIDOR LTG RM 430	19	20	1.6		.2	20	20	CORRIDOR RECEPT. RM 407
CORRIDOR LTG RM 430	21	20		1.7	.2	20	22	CORRIDOR RECEPT RM 407
LAB LTG. RM 440	23	20		1.2	.4	20	24	FAN ROOM 420 RECEPT.
LAB LTG RM 439	25	20	1.2			20	26	SPARE
LAB LIGHTING RM 416	27	20		1.7	.4	20	28	COMM. ROOM 422 RECPT.
LAB LIGHTING RM 416	29	20		1.7	.36	20	30	RECEPTACLES COL D-2
VISITOR LTG RMS 415, 417, 418, 419	31	20	1.6		.36	20	32	COMMUNICATION RM REC
LAB LIGHTING RM 412	33	20		1.7		20	34	SPARE
LAB LIGHTING RM 412	35	20		1.7		20	36	
LAB LIGHTING RM 408	37	20	1.5			20	38	
LAB LIGHTING RM 408	39	20		1.5		20	40	
TOILET & RMS 402-406	41	20		.9		20	42	
Φ KW TOTALS			13.4	14.9	13.5			

VOLTAGE: 120/208 VAC, 3Φ, 4W
MAIN LUGS:
MAIN BREAKER 200A

TOTAL KW. CONNECTED: 41.8
TOTAL KW. DEMAND : 41.8
117 A

FEEDER SIZE: SEE DWG E-23
FED FROM : MAIN SW. BD.

LP-F PANELBOARD SCHEDULE FIFTH FLOOR

LOAD DESCRIPTION	CKT. NO.	CKT. BKR	CONNECTED KVA A	B	C	CKT. BKR	CKT. NO.	LOAD DESCRIPTION
ELECT. RMS. 516, 517, 518 LTG.	1	20	.6		1.0	20	2	LTG RMS 531, 532
CORRIDOR LTG RM 507	3	20		1.1	.4	20	4	PENTHOUSE LTG RMS 600-603
CORRIDOR LTG RM 507	5	20		1.1	.9	20	6	PENTHSE RECEPTS RMS 600-603
LAB TECH LTG RM 520	7	20	1.9		.4	20	8	COMM. RECEPTS RM 518
LAB TECH LTG RM 520	9	20		1.9	1.1	20	10	LAB RECEPTACLES RM 520
EXT. ENGR. LTG RMS 522, 523	11	20		1.2	1.1	20	12	LAB RECEPTACLES RM 530
EXT. ENGR. LTG RMS 524, 525	13	20	1.2		1.1	20	14	LAB RECEPTACLES RM 530
EXT. ENGR. LTG RMS 526, 527	15	20		1.2	1.1	20	16	LAB RECEPTACLES RM 530
EXT. ENGR. LTG RMS 528, 529	17	20		1.2	1.5	20	18	EXT. ENG. RECEPTS RMS 522, 523
LAB LIGHTING RM 515	19	20	1.6		1.3	20	20	EXT. ENG. RECEPTS RMS 524, 525
LAB LIGHTING RM 514	21	20		1.6	1.3	20	22	EXT. ENG. RECEPTS RM 526
LAB LIGHTING RM 513	23	20		1.6	1.3	20	24	EXT. ENG. RECEPTS RMS 527, 528
LAB LIGHTING RM 512	25	20	1.6		.9	20	26	EXT. ENG. RECEPTS RMS 528, 529
LAB LIGHTING RM 511	27	20		1.6	1.1	20	28	SEMINAR RECEPTS RMS 531, 532
LAB LIGHTING RM 510	29	20		1.6	.9	20	30	STORAGE RECEPT RM 532
LAB LIGHTING RM 509	31	20	1.6		.9	20	32	ELEC. WTR. CLRS. RMS 501, 503-505
LAB LIGHTING RM 508	33	20		1.6	.4	20	34	COMM RECEPTS. ROOM 518
TOILET LTG RMS 502-506	35	20		1.6	.36	20	36	COMMUNICATION RM REC
CORRIDOR LTG. ROOM 521	37	20	1.7			20	38	SPARE
LAB TECH. LTG RM 530	39	20		1.9		20	40	
LAB TECH. LTG RM 530	41	20		1.9		20	42	
Φ KW TOTALS			15.8	17.3	15.9			

VOLTAGE: 120/208 VAC, 3Φ, 4W
MAIN LUGS:
MAIN BREAKER 200A

TOTAL KW. CONNECTED: 49
TOTAL KW. DEMAND : 49
137A

FEEDER SIZE: SEE. DWG. E-23
FED FROM : MAIN SW. BD.

EM-1 PANELBOARD SCHEDULE THIRD FLOOR

LOAD DESCRIPTION	CKT. NO.	CKT. BKR	CONNECTED KVA A	B	C	CKT. BKR	CKT. NO.	LOAD DESCRIPTION
EMERG. LGTS BSMT.	1	20	.5		.4	20	2	RECEPT FIRE PUMP RM B09
MACHINE BAY LTG. B07	3	20		.9		20	4	ELECTRICAL RM RECEPT
MACHINE BAY LTG. B07	5	20			.9	20	6	RECEPT. GEN ROOM B14
FIRST FLOOR LTG.	7	20	1.4		.2	20	8	FIRE ALARM PNL RM REC.
SECOND FLOOR CORRIDOR	9	20		.9		20	10	DATA GATHERING PANEL DGP-1
EAST STAIRWELL LGTS	11	20			1.3	20	12	ENGINE JACKET HEATER
WEST STAIRWELL LGTS	13	20	1.0		.2	2	14	ROOM B14
THIRD FLOOR CORRIDOR	15	20		.9		20	16	FIRE ALARM PANEL
FOURTH FLOOR CORRIDOR	17	20			.9	20	18	DATA GATHERING PNL DGP-2
EXTERIOR LIGHTING	19	20	.14		.1.0	20	20	DATA GATHERING PNL DGP-3
FIFTH FLOOR CORRIDOR	21	20		1.2		20	22	DATA GATHERING PNL DGP-4
30 KW AC GEN RM	23	20				20	24	DAY TANK PUMP
SECURITY SYSTEM	25	20			.96	20	26	GEN. RECEPT ROOM B14
SPARE	27	20			.96	20	28	
↓	29	20			.96	20	30	↓
Φ KW TOTALS			6.8	8.76	7.66			

VOLTAGE: 120/208 VAC, 3Φ, 4W
MAIN LUGS:
MAIN BREAKER 100A

TOTAL KW. CONNECTED: 23.22
TOTAL KW. DEMAND : 23.22
67A

FEEDER SIZE: 1N MCC-EMP
FED FROM : BUS

KP-1 PANELBOARD SCHEDULE THIRD FLOOR

LOAD DESCRIPTION	CKT. NO.	CKT. BKR	CONNECTED KVA A	B	C	CKT. BKR	CKT. NO.	LOAD DESCRIPTION
DISHWASHER RM 327	1	20	1.7		.5	20	2	KITCHEN RECEPTACLES
DISPOSAL RM 327	3	20		1.2	1.5	20	4	ICE MACHINE RM 327
MICROWAVE RM 327	5	20		1.2	1.5	20	6	REFRIGERATOR RM 327
FOOD WARMERS RM 327	7	20	1.5		1.5	20	8	FOOD WARMERS RM 327
FOOD WARMERS RM 327	9	20		1.5	1.5	20	10	FOOD WARMERS RM 327
FACULTY RECEPTACLES	11	20		.7	1.5	20	12	FOOD UNITS RM 327
SPARE	13	20			.4	20	14	TERRACE RECEPTACLES
↓	15	20				20	16	SPARE
	17	20				20	18	SPARE
	19						20	
	21						22	
	23						24	
	25						26	
	27						28	
	29						30	
	31						32	
	33						34	
	35						36	
	37						38	
	39						40	
	41						42	
Φ KW TOTALS			5.6	5.7	4.9			

VOLTAGE: 120/208 VAC, 3Φ, 4W
MAIN LUGS: 100 AMP
MAIN BREAKER ——

TOTAL KW. CONNECTED: 16.2
TOTAL KW. DEMAND : 16.2
49A

FEEDER SIZE: 4#4 & 1#8 GND
FED FROM : MAIN SW. BD

CP-1 PANELBOARD SCHEDULE THIRD FLOOR

LOAD DESCRIPTION	CKT. NO.	CKT. BKR	CONNECTED KVA A	B	C	CKT. BKR	CKT. NO.	LOAD DESCRIPTION
ITC SPEAKER RECEPTS RM 308	1	20	1.0		1.0	20	2	ITC SPEAKER RECEPTS RM 312
ITC RECEPTS. RMS. 308, 312	3	20		.5	1.5	20	4	PROD. RECEPTS RMS 310, 311
ITC RECEPTS. RMS. 308, 312	5	20		.5	1.6	20	6	ITV CLASSROOM LTG RM 308
ITV CLASS ROOM LTG. 312	7	20	1.0		1.6	20	8	ITV CLASS ROOM LTG RM 308
312	9	20	1.0		1.3	20	10	ITV LTG RMS 309, 310, 311
312	11	20	1.0		1.3	20	12	ITV LTG RMS 309, 310, 311
308	13	20	1.6		.5	20	14	CONTROL ROOM LTG RM 308
ITV CLASSROOM LTG. 308	15	20		1.6	1.0	20	16	ITV CLASSROOM LTG 312
SPARE	17	20				20	18	SPARE
	19	20				20	20	
	21	20				20	22	
	23	20				20	24	
	25	20				20	26	
	27	20				20	28	
	29	20				20	30	
	31	20				20	32	
	33	20				20	34	
	35	20				20	36	
	37	20				20	38	
	39	20				20	40	
	41	20				20	42	
Φ KW TOTALS			6.7	6.9	4.4			

VOLTAGE: 120/208 VAC, 3Φ, 4-W
MAIN LUGS: 225AMPS
MAIN BREAKER ——

TOTAL KW. CONNECTED: 18
TOTAL KW. DEMAND : 18
50A

FEEDER SIZE: 4#1/0 & 1#6 GND.
FED FROM : MAIN SW. BD

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

Herbert Nicholas
87101B

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved by
director design and construction division
date 10.19.87

PANEL SCHEDULES

Sherman·Carter·Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON, KY 40507 • (606) 254-1551

JOB NO 8706
DATE 9-30-87
DRAWN D. MEYER
CHECKED M. GOLDBERG
UK FILE NO 431.0

REVISIONS
3-90% REVIEW 10-16-87
4-GEN. REVISIONS 7-18-88
5-RENOVATIONS 2-16-90

SHEET
E•26

Cab # 83 Slot B-2 Document # 004992

AS BUILT
3-1-91
BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4301-CE-026-4

PP-A PANELBOARD SCHEDULE BASEMENT

LOAD DESCRIPTION	CKT. No.	FUSE	A	B	C	A	B	C	FUSE	CKT. No.	LOAD DESCRIPTION
POWER STATION 3E	1	30	6.4			6.4			30	2	POWER STATION 3-D
MACHINE BAY				6.4			6.4				MACHINE BAY
ROOM B07		3			6.4			6.4	3		ROOM B07
POWER STATION 4-E	7	30	6.4			6.4			30	8	POWER STATION 4-D
MACHINE BAY				6.4			6.4				MACHINE BAY
ROOM B07		3			6.4			6.4	3		ROOM B07
POWER STATION 5-E	13	30	6.4			6.4			30	14	POWER STATION 6 D
MACHINE BAY				6.4			6.4				MACHINE BAY
ROOM B07		3			6.4			6.4	3		ROOM B07
POWER STATION 6-E	19	30	6.4						60	20	SPARE
MACHINE BAY				6.4							
ROOM B07		3			6.4				3		
SPARE	25	30							30	26	SPARE
		3							3		
SPARE	31	60							60	32	SPARE
		3							3		
Φ KW TOTALS						44.8	44.8	44.8			

VOLTAGE: 480 VAC 3Φ 3 W
MAIN LUGS: 225 AMP
MAIN BREAKER
TOTAL KVA CONNECTED: 134.4
TOTAL KVA DEMAND : 67
81A
FEEDER SIZE: 3#350MCM+#2GND-3"C
FED FROM : SWITCHBOARD

PP-B PANELBOARD SCHEDULE BASEMENT

LOAD DESCRIPTION	CKT. No.	FUSE	A	B	C	A	B	C	FUSE	CKT. No.	LOAD DESCRIPTION
STATION 3E DISCONNECT	1	30	4.8			4.8			30	2	STATION 3-D DISCONNECT
MACHINE BAY ROOM B07		2		4.8			4.8		2		MACHINE BAY RM. B07
STATION 4E DISCONNECT	5	30			4.8			4.8	30	6	STATION 4D DISCONNECT
MACHINE BAY ROOM B07		2	4.8			4.8			2		MACHINE BAY RM. B07
STATION 5E DISCONNECT	9	30		4.8			4.8		30	10	STATION 5D DISCONNECT
MACHINE BAY ROOM B07		2			4.8			4.8	2		MACHINE BAY RM. B07
STATION 6E DISCONNECT	13	30	4.8						30	14	SPARE
MACHINE BAY RM. B07		2		4.8					2		
OFFICE RECEPTACLE	17	30			4.8				30	18	
ROOM B06		2	4.8						2		
OFFICE RECEPTACLE	21	30		4.8					30	22	
ROOM B05		2			4.8				2		
SPARE	25	20							30	26	
		2							2		
	29									30	
	31									32	
	33									34	
	35									36	
	37									38	
	39									40	
	41									42	
Φ KW TOTALS						28.8	28.8	28.8			

VOLTAGE: 120/208 VAC, 3Φ, 4W
MAIN LUGS: 225 AMP
MAIN BREAKER
TOTAL KVA CONNECTED: 86.4
TOTAL KVA DEMAND : 44
124A
FEEDER SIZE: 3-#3/0 & 1-#4 GND
FED FROM : MAIN SW. BD.

LP-N PANELBOARD SCHEDULE BASEMENT

LOAD DESCRIPTION	CKT. No.	CKT. BKR	A	B	C	A	B	C	CKT. BKR.	CKT. No.	LOAD DESCRIPTION
LAB RECEPTACLE	1	30	2.8			2.4			30	2	LAB RECEPTACLE
ROOM B18 @ COL. C-5				2.8			2.4		2		ROOM B18
		3			2.8			2.4	30	6	BUIL. OPER. OUTLET
ROLL FILTER F-1	7	20	.2			2.4			2		ROOM B03
UNIT HEATER UH-2	9	20		.3			1.4		20	10	ROLL-UP DOORS
ROLL-UP DOORS	11	20			1.4			1.4			ROOM B12 SOUTH
ROOM B07			1.4			1.4			3		
		3		1.4			1.5		20	16	POWER STATION 3E
ROLL-UP DOORS	17	20			1.4			1.5	20	18	POWER STATION 4E
ROOM B12			1.4			1.5			20	20	POWER STATION 5E
		3		1.4			1.5		20	22	POWER STATION 6E
SPARE	23	20						1.5	20	24	POWER STATION 3D
	25	20				1.5			20	26	POWER STATION 4D
	27	20					1.5		20	28	POWER STATION 6D
	29	20							20	30	SPARE
	31									32	
	33									34	
	35									36	
	37									38	
	39									40	
	41									42	
Φ KW TOTALS						12.0	15.8	15.6			

VOLTAGE: 120/208VAC, 3Φ, 4W
MAIN LUGS:
MAIN BREAKER 100A
TOTAL KVA CONNECTED: 43.4
TOTAL KVA DEMAND : 22.0
62A
FEEDER SIZE: SEE DWG E-23
FED FROM : MAIN SW. BD.

NOTE:
EACH PANEL SHALL HAVE SEPARATE NEUTRAL AND GROUNDING BUSS

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

STATE OF KENTUCKY HERBERT R. NICHOLS 14857 REGISTERED ENGINEER
871016

LP-G PANELBOARD SCHEDULE SECOND FLOOR

LOAD DESCRIPTION	CKT. No.	CKT. BKR	A	B	C	A	B	C	CKT. BKR.	CKT. No.	LOAD DESCRIPTION
VAV ROOM RECEPT. RM 223	1	20	.4			1.1			20	2	SECRETARIAL RECEPT. RM 231
CORRIDOR RECEPT. RM 207	3	20		.2			1.1		20	4	SECRETARIAL RECEPT RM 231
CORRIDOR RECEPT. RM 207	5	20			.2			.9	20	6	SECRETARIAL RECEPT-231
CORRIDOR RECEPT. RM 207	7	20	.2			.7			20	8	SEMINAR RECEPT RM 221
VISITOR RECEPT. RM 211, 212	9	20		1.5					20	10	SPARE
VISITOR RECEPT. RM 208, 210	11	20			1.5			1.5	20	12	VISITOR RECEPT.-RM 217, 220
WATER COOLERS RM 201, 203	13	20	1.1			1.5			20	14	VISITOR RECEPT. RM 215, 216
ROLL FILTER F-3 RM 223	15	20		.2			1.5		20	16	VISITOR RECEPT. RM. 213, 214
UH-4 RM 223	17	20			.2			1.5	20	18	GRAPHICS WORKSTA. RM 209
GRAPHICS WORKSTA. RM 209	19	20	1.5			1.5			20	20	GRAPHICS WORKSTA. RM 209
↓	21	20		1.5			1.5		20	22	GRAPHICS WORKSTA. RM 209
	23	20			1.5			.54	20	24	WORKSTATION COL E-4
	25	20	1.5			.54			20	26	WORKSTATION COL E-4
	27	20		1.5			.72		20	28	WORKSTATION COL E-5
	29	20			1.5			.72	20	30	WORKSTATION COL E-6
	31	20	1.5			.54			20	32	WORKSTATION COL E-7
	33	20		1.5			.54		20	34	WORKSTATION COL E-7
	35	20			1.5				20	36	SPARE
	37	20	1.5						20	38	
	39	20		1.5					20	40	
	41	20			1.5				20	42	↓
Φ KW TOTALS						12.5	12.0	11.8			

5

VOLTAGE: 120/208 VAC, 3Φ, 4W
MAIN LUGS:
MAIN BREAKER 150A
TOTAL KVA CONNECTED: 36.3
TOTAL KVA DEMAND : 19
53A
FEEDER SIZE: SEE DWG E-23
FED FROM : MAIN SW. BD.

LP-H PANELBOARD SCHEDULE FIFTH FLOOR

LOAD DESCRIPTION	CKT. No.	CKT. BKR	A	B	C	A	B	C	CKT. BKR.	CKT. No.	LOAD DESCRIPTION
VAV ROOM RECEPT RM 516	1	20	.4			1.3			20	2	LAB RECEPTACLES RM 515
CORRIDOR RECEPT RM 507	3	20		.2			1.3		20	4	LAB RECEPTACLES - 514
CORRIDOR RECEPT RM 507	5	20			.2			1.7	20	6	LAB RECEPTACLES - 513
CORRIDOR RECEPT RM 507	7	20	.2			1.3			20	8	LAB RECEPTACLES - 512
LAB RECEPT RM 509	9	20		1.3			1.3		20	10	LAB RECEPTACLES - 511
LAB RECEPT RM 508	11	20			1.3			1.3	20	12	LAB RECEPTACLES - 510
LAB TECHNICIANS	13	30	2.4			2.4			30	14	LAB TECHNICIANS RECEPT
ROOM 520		2		2.4			2.4		2		ROOM 530
LAB TECHNICIANS	17	30			2.4			2.4	30	18	LAB TECHNICIANS RECEPT
ROOM 520		2	2.4			2.4			2		ROOM 530
UH-8 ROOM 603	21	20		.2			.2		20	22	UNIT HEATER UH-7 RM 516
ROLL FILTER F-6 RM 516	23	20			.2			.5	20	24	ELEVATOR CAB LTG
WINDOW WASH	25	30	2.4			.36			20	26	RECEPTACLES COL D-2
PENTHOUSE ROOF		2		2.4			.36		20	28	RECEPTACLES COL D-3
WINDOW WASH	29	30			2.4			.36	20	30	RECEPTACLES COL D-4
PENTHOUSE ROOF		2	2.4						20	32	SPARE
RECEPTACLES COL D-2	33	20		.36					20	34	↓
~~SPARE~~	35	20							20	36	
	37									38	
	39									40	
	41									42	
Φ KW TOTALS						17.6	11.7	12.4			

5

VOLTAGE: 120/208 VAC, 3Φ, 4W
MAIN LUGS:
MAIN BREAKER 100A
TOTAL KVA CONNECTED: 41.7
TOTAL KVA DEMAND : 21.0
59A
FEEDER SIZE: SEE DWG E-23
FED FROM : MAIN SW. BD.

LP-J PANELBOARD SCHEDULE FOURTH FLOOR

LOAD DESCRIPTION	CKT. No.	CKT. BKR	A	B	C	A	B	C	CKT. BKR.	CKT. No.	LOAD DESCRIPTION
LAB RECEPTACLE	1	30	2.4			2.4			30	2	LAB RECEPTACLE
ROOM 416		2		2.4			2.4		2		ROOM 427
LAB RECEPTACLE	5	30			2.4			2.4	30	6	LAB RECEPTACLE
ROOM 412		2	2.4			2.4			2		ROOM 429
LAB RECEPTACLE	9	30		2.4			2.4		30	10	LAB RECEPTACLE
ROOM 408		2			2.4			2.4	2		ROOM 431
LAB RECEPTACLE	13	30	2.4			2.4			30	14	LAB RECEPTACLE
ROOM 424		2		2.4			2.4		2		ROOM 433
LAB RECEPTACLE	17	30			2.4			2.4	30	18	LAB RECEPTACLE
ROOM 426		2	2.4			2.4			2		ROOM 434
LAB RECEPTACLE	21	30		2.4			2.4		30	22	LAB RECEPTACLE
ROOM 428		2			2.4			2.4	2		ROOM 437
LAB RECEPTACLE	25	30	2.4			2.4			30	26	LAB RECEPTACLE
ROOM 432		2		2.4			2.4		2		ROOM 438
LAB RECEPTACLE	29	30			2.4			2.4	30	30	LAB RECEPTACLE
ROOM 435		2	2.4			2.4			2		ROOM 440
LAB RECEPTACLE	33	30		2.4			2.4		30	34	LAB RECEPTACLE
ROOM 436		2			2.4			2.4	2		ROOM 439
LAB RECEPTACLE	37	30	2.4						30	38	SPARE
ROOM 425		2		2.4					2		
	41									42	
Φ KW TOTALS						31.2	31.2	28.8			

VOLTAGE: 120/208 VAC, 3Φ, 4W
MAIN LUGS:
MAIN BREAKER 150A
TOTAL KVA CONNECTED: 91.2
TOTAL KVA DEMAND : 46
129 A
FEEDER SIZE: SEE DWG E-23
FED FROM : MAIN SW. BD.

LP-K PANELBOARD SCHEDULE FOURTH FLOOR

LOAD DESCRIPTION	CKT. No.	CKT. BKR	A	B	C	A	B	C	CKT. BKR.	CKT. No.	LOAD DESCRIPTION
LAB RECEPTACLES RM 416	1	20	1.7			1.3			20	2	LAB RECEPTACLES RM 424
RM 416	3	20		1.7			1.3		20	4	RM 426
RM 412	5	20			1.7			1.3	20	6	RM 428
RM 412	7	20	1.7			1.3			20	8	RM 432
RM 408	9	20		1.7			1.3		20	10	RM 435
RM 408	11	20			1.7			1.3	20	12	RM 436
RM 425	13	20	1.1			1.3			20	14	RM 433
RM 427	15	20		1.1			1.3		20	16	RM 434
RM 429	17	20			1.7			1.3	20	18	RM 437
RM 431	19	20	1.1			1.3			20	20	RM 438
RM 440	21	20		1.3			1.3		20	22	RM 439
LAB RECEPTACLE	23	30			2.8			2.8	30	24	LAB RECEPTACLE
ROOM 434			2.8			2.8					ROOM 439
		3		2.8			2.8		3		
LAB RECEPTACLE	29	30			2.8			2.8	30	30	LAB RECEPTACLE
ROOM 437			2.8			2.8					ROOM 440
		3		2.8			2.8		3		
LAB RECEPTACLE	35	30			2.8			.2	20	36	UNIT HEATER UH6 RM 420
ROOM 438			2.8						20	38	SPARE
		3		2.8					20	40	
ROLL FILTER F-5 RM 420	41	20			.2				20	42	↓
Φ KW TOTALS						24.8	25.0	23.4			

VOLTAGE: 120/208 VAC, 3Φ, 4W
MAIN LUGS:
MAIN BREAKER 150 A
TOTAL KVA CONNECTED: 73.2
TOTAL KVA DEMAND : 37
104 A
FEEDER SIZE: SEE DWG E-23
FED FROM : MAIN SW. BD

LP-L PANELBOARD SCHEDULE FOURTH FLOOR

LOAD DESCRIPTION	CKT. No.	CKT. BKR	A	B	C	A	B	C	CKT. BKR.	CKT. No.	LOAD DESCRIPTION
3- LAB RECEPTACLES	1	30	2.8			2.8			30	2	LAB RECEPTACLE
1- ROOM 408				2.8			2.8				ROOM 435
1- ROOM 412 1- ROOM 416		3			2.8			2.8	3	6	
SPARE	7	30	2.8			2.8			30	8	LAB RECEPTACLE
				2.8			2.8				ROOM 436
		3			2.8			2.8	3		
SPARE	13	30	2.8			2.8			30	14	LAB RECEPTACLE
				2.8			2.8				ROOM 425
		3			2.8			2.8	3		
LAB RECEPTACLE	19	30	2.8			2.8			30	20	LAB RECEPTACLE
ROOM 424				2.8			2.8				ROOM 427
		3			2.8			2.8	3		
LAB RECEPTACLE	25	30	2.8			2.8			30	26	LAB RECEPTACLE
ROOM 426				2.8			2.8				ROOM 429
		3			2.8			2.8	3		
LAB RECEPTACLE	31	30	2.8			2.8			30	32	LAB RECEPTACLE
ROOM 428				2.8			2.8				ROOM 431
		3			2.8			2.8	3		
LAB RECEPTACLE	37	30	2.8			2.8			30	38	LAB RECEPTACLE
ROOM 432				2.8			2.8				ROOM 433
		3			2.8			2.8	3		
Φ KW TOTALS						39.2	39.2	39.2			

VOLTAGE: 120/208 VAC, 3Φ
MAIN LUGS:
MAIN BREAKER 225A
TOTAL KVA CONNECTED: 117.6
TOTAL KVA DEMAND : 59
165A
FEEDER SIZE: SEE DWG E-23
FED FROM : MAIN SW BD

LP-M PANELBOARD SCHEDULE FIFTH FLOOR

LOAD DESCRIPTION	CKT. No.	CKT. BKR	A	B	C	A	B	C	CKT. BKR.	CKT. No.	LOAD DESCRIPTION
LAB RECEPTACLE	1	30	2.8			2.8			30	2	LAB RECEPTACLE
ROOM 515				2.8			2.8				ROOM 508
		3			2.8			2.8	3		
LAB RECEPTACLE	7	30	2.8			2.4			30	8	LAB RECEPTACLE
ROOM 514				2.8			2.4		2		ROOM 515
		3			2.8			2.4	30	12	LAB RECEPTACLE
LAB RECEPTACLE	13	30	2.8			2.4			2		ROOM 514
ROOM 513				2.8			2.4		30	16	LAB RECEPTACLE
		3			2.8			2.4	2		ROOM 513
LAB RECEPTACLE	19	30	2.8			2.4			30	20	LAB RECEPTACLE
ROOM 512				2.8			2.4		2		ROOM 512
		3			2.8			2.4	30	24	LAB RECEPTACLE
LAB RECEPTACLE	25	30	2.8			2.4			2		ROOM 511
ROOM 511				2.8			2.4		30	28	LAB RECEPTACLE
		3			2.8			2.4	2		ROOM 510
LAB RECEPTACLE	31	30	2.8			2.4			30	32	LAB RECEPTACLE
ROOM 510				2.8			2.4		2		ROOM 509
		3			2.8			2.4	30	36	LAB RECEPTACLE
LAB RECEPTACLE	37	30	2.8			2.4			2		ROOM 508
ROOM 509				2.8					30	40	SPARE
		3			2.8				2		↓
Φ KW TOTALS						36.8	36.8	36.8			

VOLTAGE: 120/208 VAC, 3Φ, 4W
MAIN LUGS:
MAIN BREAKER 200A
TOTAL KW. CONNECTED: 110.4
TOTAL KW. DEMAND : 55
154 A
FEEDER SIZE: SEE DWG E-23
FED FROM : MAIN SW. BD.

AS BUILT
3-1-91

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CE-027-4

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved by [signature] director · design and construction division
10.19.87 date

PANEL SCHEDULES

Sherman · Carter · Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606 254 1351

JOB NO. 8706
DATE 9-30-87
DRAWN D. MEYER
CHECKED M. GOLDBERG
UK FILE NO 431.0

REVISIONS
3 90% REVIEW 10-16-87
4 GEN. REVISIONS 7-18-88
5 RENOVATION

SHEET
E•27

Cab # 83 Slot B-2 Document # 004993

COMP-1 PANELBOARD SCHEDULE BASEMENT

LOAD DESCRIPTION	CKT. Nº.	CKT. BKR	A	B	C	A	B	C	CKT. BKR.	CKT. Nº.	LOAD DESCRIPTION
SPARE	1	20							20	2	SPARE
↓	3	20							20	4	↓
	5	20							20	6	
	7	20							20	8	
	9	20							20	10	
	11	20							20	12	
	13	20							20	14	
	15	20							20	16	
	17	20							20	18	
	19	20							20	20	
	21	20							20	22	
	23	20							20	24	
	25									26	
	27									28	
	29									30	
	31									32	
	33									34	
	35									36	
	37									38	
	39									40	
	41									42	
	Φ KW TOTALS					1.3	1.3	1.3			

VOLTAGE: 120/208 VAC, 3Φ, 4W
MAIN LUGS: 225 AMPS
MAIN BREAKER/FUSE:

TOTAL KW. CONNECTED: 3.9
TOTAL KW. DEMAND : 2
5.6 AMPS

FEEDER SIZE: 4-1/C #1/0 & 1 #6 GND.
FED FROM : MAIN SW. BOARD

RELOCATE LAB RECEPT. RM. #010 TO NEW POWER PANEL PP-1X

5

LP-P PANELBOARD SCHEDULE FIRST FLOOR

LOAD DESCRIPTION	CKT. Nº.	CKT. BKR	A	B	C	A	B	C	CKT. BKR.	CKT. Nº.	LOAD DESCRIPTION
ROLL-UP DOOR	1	20/	1.4			.2			20	2	UH-1 ROOM #104
				1.4			.2		20	4	UH-3 ROOM #115
		/3			1.4			.2	20	6	ROLL-FILTER(F-2)RM. #115
SPARE	7	20							20	8	SPARE
↓	9	20							20	10	↓
	11	20							20	12	
	13									14	
	15									16	
	17									18	
	19									20	
	21									22	
	23									24	
	25									26	
	27									28	
	29									30	
	31									32	
	33									34	
	35									36	
	37									38	
	39									40	
	41		1.4	1.4	1.4	.2	.2	.2		42	
	Φ KW TOTALS					1.6	1.6	1.6			

VOLTAGE: 120/208 VAC, 3Φ, 4W
MAIN LUGS:
MAIN BREAKER 30A

TOTAL KW. CONNECTED: 4.8
TOTAL KW. DEMAND : 2.5
7 AMPS

FEEDER SIZE: SEE DWG. # E-23
FED FROM : MAIN SW. BD.

LP-Q PANELBOARD SCHEDULE THIRD FLOOR

LOAD DESCRIPTION	CKT. Nº.	CKT. BKR	A	B	C	A	B	C	CKT. BKR.	CKT. Nº.	LOAD DESCRIPTION
PERSONAL COMP. OUTLETS	1	20	1.5			1.5			20	2	PERSONAL COMP. OUTLETS
ROOM #325	3	20		1.5			1.5		20	4	ROOM #325
↓	5	20			1.5			1.5	20	6	↓
	7	20	1.5			1.5			20	8	
	9	20		1.5			1.5		20	10	
	11	20			1.5			1.5	20	12	
	13	20	1.5			1.5			20	14	
	15	20		1.5			1.5		20	16	
	17	20			1.5			1.5	20	18	
	19	20	1.5			1.5			20	20	
TAPE VIEWING RECEPT.	21	20		1.5			1.5		20	22	
ROOM #317	23	20			1.5			1.5	20	24	
↓	25	20	1.5			1.5			20	26	TAPE VIEWING RECEPT.
	27	20		1.5			1.5		20	28	ROOM #317
	29	20			1.5			1.5	20	30	↓
	31	20	1.5			1.5			20	32	
	33	20		1.5			1.5		20	34	
	35	20			1.5			1.5	20	36	
	37	20	1.5			1.5			20	38	
	39	20		1.5			1.5		20	40	
PERS. COMP. RECEPT.-RM. #325	41	20			1.4				20	42	SPARE
	Φ KW TOTALS					21.0	21.0	21.4			

VOLTAGE: 120/208 VAC, 3Φ, 4W
MAIN LUGS:
MAIN BREAKER 100A

TOTAL KW. CONNECTED: 61.4
TOTAL KW. DEMAND : 31.0
87 AMPS

FEEDER SIZE: SEE DWG. # E-23
86.1 AMPS
FED FROM : MAIN SW. BD.

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."

STATE OF KENTUCKY
HERBERT R. NICHOLS
871016

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved by
director - design and construction division
date 10.19.87

PANEL SCHEDULES

Sherman · Carter · Barnhart
PARTNERS IN ARCHITECTURE
SUITE 1900 • 250 WEST MAIN STREET • LEXINGTON KY 40507 • 606-254-1351

JOB NO. 8706
DATE 9-30-87
DRAWN D. MEYER
CHECKED M. GOLDBERG
UK FILE NO 431.0

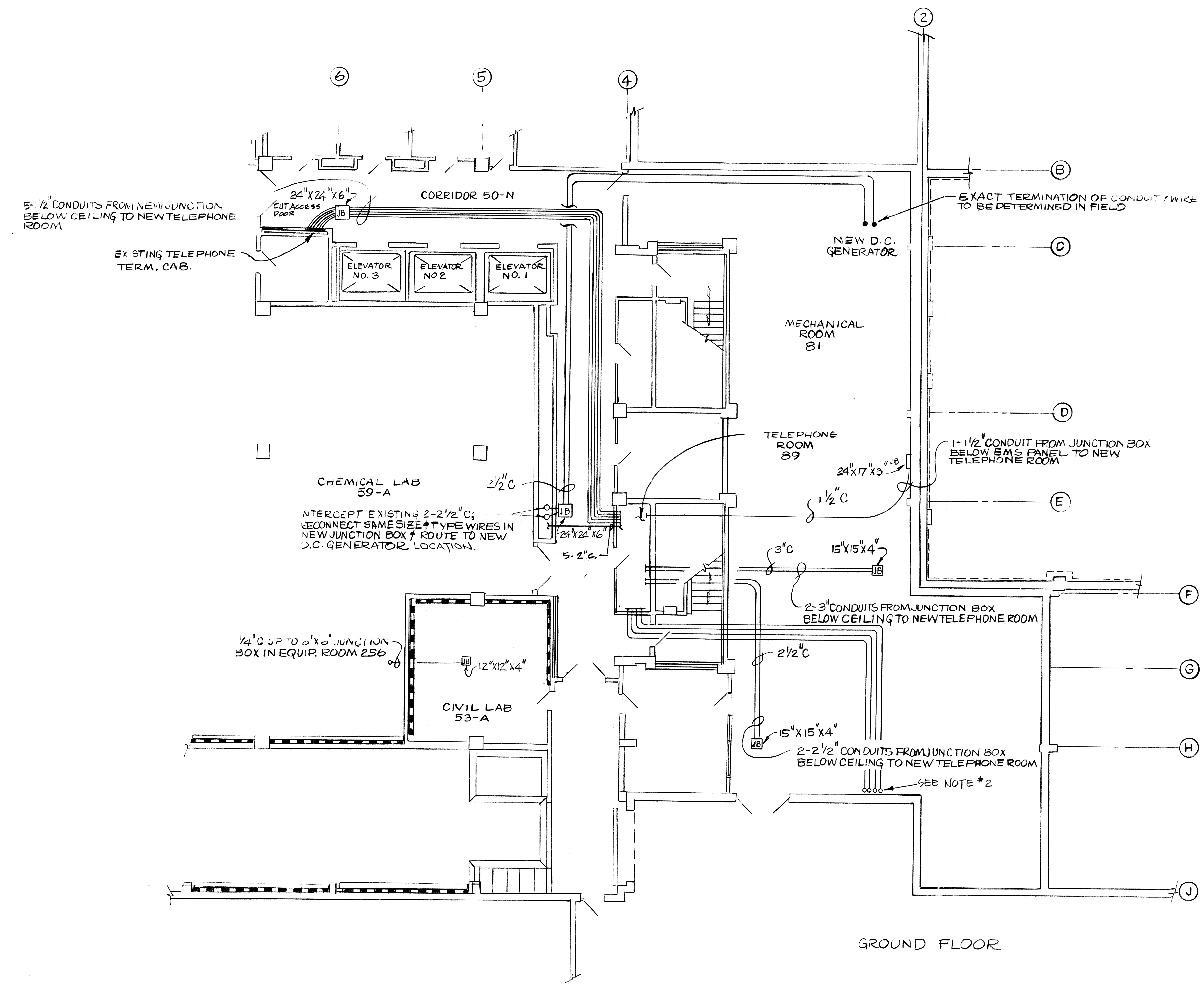
REVISIONS
3-90% REVIEW 10-6-87
4-GENERAL 7-18-88
5-RENOVATION 2-16-90

AS BUILT
3-1-91
BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361-CE-028-4

SHEET
E•28

Cab # 83
Slot B-2
Document # 004994

"This seal and signature apply only to the unaltered document to which they are affixed. I expressly disclaim any responsibility for any and all changes made after the issue date, for other plans, specifications, estimates, reports or other documents or instruments relating to or intended to be used for any part or portion of the architectural or engineering project or survey."



NOTES

1. CONDUIT ROUTINGS & JUNCTION BOX LOCATIONS ARE DIAGRAMATIC. CONTRACTOR MUST INSPECT SITE TO CONFIRM EXACT LOCATIONS AND ROUTINGS.
2. + 4"C STUBBED UP UNDER DIVISION 2 WORK. THIS CONTRACTOR TO EXTEND 4-4"C TO NEW TELEPHONE ROOM #89.

AT THE REQUEST OF THE ELECTRICAL INSPECTOR IT IS NECESSARY TO ADD A DISCONNECT SWITCH AND A SAFETY GUARD TO THE D.C. GENERATOR SET.

1) 200AMP, 250V, 3 PHASE, INDOOR SAFETY SWITCH, RELOCATE THE CONTACTOR, RUN 2" CONDUIT BETWEEN THE TWO UNITS AND PULL 3/0 COPPER WIRE THROUGH CONDUIT AND RECONNECT.
2) FURNISH AND INSTALL AN EXPANDED METAL, REINFORCED GUARD, IN A HALF ROUND SHAPE OVER THE D.C. GENERATOR UNIT.

AS BUILT
3-1-91

NORTH

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 4361 CE-029-4

STATE OF KENTUCKY — HERBERT R. NICHOLS — 871016

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky
approved by — director - design and construction division — date 10-19-87

TELEPHONE RENOVATION
ANDERSON HALL

Sherman · Carter · Barnhart
PARTNERS IN ARCHITECTURE
LEXINGTON KY 40507 • 606-254-1351

JOB NO	8706
DATE	9-30-87
DRAWN	H. BALDWIN
CHECKED	M. GOLDBERG
UK FILE NO	431.0

REVISIONS
3-90% REVIEW 10-16-87
4-GENERAL 7-18-88

SHEET
E•29

Cab # 83 — Slot B-2 — Document # 004995

PP-1X (225A.) PANELBOARD SCHEDULE BASEMENT/RM.010

LOAD DESCRIPTION	CKT. NO.	CKT. BKR	CONNECTED KVA A	B	C	A	B	C	CKT. BKR	CKT. NO.	LOAD DESCRIPTION
	1	100							30	2	
	3	↓							↓	4	
	5	↓							↓	6	
CKT IN J-BOX COL B-4	7	30							30	8	
	9	↓							↓	10	
CKT IN J-BOX COL B-4	11	30							↓	12	
	13	↓							30	14	CLG DROP COL C-3
CLG. DROP RECEPT. (C-3)	15	20							30	16	CLG DROP COL B-3
CLG. DROP RECEPT. (C-3)	17	20							20	18	QUAD RECEPT (B-4)
CLG. DROP RECEPT. (C-4)	19	20							20	20	QUAD RECEPT (B-4)
CLG. DROP RECEPT. (C-4)	21	20							20	22	QUAD RECEPT (B-5)
QUAD RECEPT (C-5)	23	20							20	24	QUAD RECEPT (B-5)
QUAD RECEPT (C-5)	25	20							20	26	QUAD RECEPT (B-5)
QUAD RECEPT (C-5)	27	20							20	28	
	29	20							20	30	
TAPE STORAGE RM G18	31	20							20	32	
COMPUTER OFFICE RM219	33	20							20	34	
COMPUTER OFFICE RM234	35	20							20	36	
SPACE	37								20	38	
↓	39									40	SPACE
	41									42	↓
			Φ KW TOTALS								

VOLTAGE: 120/208VAC, 3Φ, 4W MAIN BREAKER 200A. WITH SHUNT TRIP

TOTAL KW. CONNECTED: TOTAL KW. DEMAND !

FED FROM : MAIN SW. BOARD

PP-2X (225A.) PANELBOARD SCHEDULE BASEMENT/RM. 010

LOAD DESCRIPTION	CKT. NO.	CKT. BKR	CONNECTED KVA A	B	C	A	B	C	CKT. BKR	CKT. NO.	LOAD DESCRIPTION
	1	50							50	2	
CEILING DROP COL C-3	3	↓							↓	4	
	5	↓							↓	6	
	7	75								8	SPACE
	9	↓								10	
	11	↓								12	
SPACE	13									14	
↓	15									16	
	17									18	
	19									20	
	21									22	
	23									24	↓
	25									26	
	27									28	
	29									30	
	31									32	
	33									34	
	35									36	
	37									38	
	39									40	
	41									42	
			Φ KW TOTALS								

VOLTAGE: 277/480, 3Φ, 3W MAIN BREAKER 200A. WITH SHUNT TRIP

TOTAL KW. CONNECTED: TOTAL KW. DEMAND !

FED FROM : MAIN SW. BOARD

PP-3X (225A.) PANELBOARD SCHEDULE BASEMENT/RM. 015

LOAD DESCRIPTION	CKT. NO.	CKT. BKR	CONNECTED KVA A	B	C	A	B	C	CKT. BKR	CKT. NO.	LOAD DESCRIPTION
	1	60							60	2	
	3	↓							↓	4	
	5	↓							↓	6	
	7	30							30	8	
	9	↓							↓	10	
	11	↓							↓	12	
	13	60							60	14	
	15	↓							↓	16	
	17	30							30	18	
	19	↓							↓	20	
	21	30							30	22	
	23	20							20	24	
	25	20							20	26	
	27	20							20	28	
	29	20							20	30	
	31	20							20	32	
SPACE	33									34	SPACE
↓	35									36	↓
	37									38	
	39									40	
	41									42	
			Φ KW TOTALS								

VOLTAGE: 120/208, 3Φ, 4W MAIN BREAKER 200A. WITH SHUNT TRIP

TOTAL KW. CONNECTED: TOTAL KW. DEMAND !

FED FROM : MAIN SW. BOARD

PP-4X. (225A.) PANELBOARD SCHEDULE BASEMENT RM. 012

LOAD DESCRIPTION	CKT. NO.	CKT. BKR	CONNECTED KVA A	B	C	A	B	C	CKT. BKR	CKT. NO.	LOAD DESCRIPTION
	1	100							60	2	
	3	↓							↓	4	
	5	↓							↓	6	
	7	30							60	8	
	9									10	
	11	↓							↓	12	
	13	30							60	14	
	15								↓	16	
	17	↓							60	18	
	19	30							↓	20	
	21	↓							30	22	
	23	30							30	24	
	25	↓							20	26	
	27	20							20	28	
	29	20							20	30	
	31	20								32	SPACE
SPACE	33									34	
↓	35									36	↓
	37									38	
	39									40	
	41									42	
			Φ KW TOTALS								

VOLTAGE: 120/208, 3Φ, 4W MAIN BREAKER 200A. WITH SHUNT TRIP

TOTAL KW. CONNECTED: TOTAL KW. DEMAND !

FED FROM : MAIN SW. BOARD

PP-5X (400A.) PANELBOARD SCHEDULE BASEMENT/RM.009

LOAD DESCRIPTION	CKT. NO.	CKT. BKR	CONNECTED KVA A	B	C	A	B	C	CKT. BKR	CKT. NO.	LOAD DESCRIPTION
	1	100							100	2	
	3									4	
	5	↓							↓	6	
	7	100							100	8	
	9									10	
	11	↓							↓	12	
60 AMP 3-POLE SW.	13	60							60	14	
COL. E-5	15								↓	16	
	17	↓							60	18	
	19	60							↓	20	
	21								60	22	
	23	↓							↓	24	
	25	60							60	26	
	27	↓							↓	28	
	29	30							30	30	
30AMP 3-POLE SW.	31									32	
COL. E-5	33	↓							↓	34	
	35	30							30	36	
	37									38	
	39	↓							↓	40	
SPACE	41									42	SPACE
			Φ KW TOTALS								

VOLTAGE: 120/208, 3Φ, 4W MAIN BREAKER 400A. WITH SHUNT TRIP

TOTAL KW. CONNECTED: TOTAL KW. DEMAND !

FED FROM : MAIN SW. BOARD

PP-6X (225A.) PANELBOARD SCHEDULE FIRST FL./RM. 116

LOAD DESCRIPTION	CKT. NO.	CKT. BKR	CONNECTED KVA A	B	C	A	B	C	CKT. BKR	CKT. NO.	LOAD DESCRIPTION
	1	60							60	2	
	3									4	
	5	↓							↓	6	
L21-30R, COL C-2 & 3	7	30							30	8	L21-30R, COL C-4 & 5
L21-30R, COL C-2 & 3	9									10	L21-30R, COL C-4 & 5
L21-30R, COL C-2 & 3	11	↓							↓	12	L21-30R, COL C-4 & 5
L6-30R, COL C-2	13	30							30	14	L6-30R, COL C-4
L6-30R, COL C-3	15	↓							↓	16	L6-30R, COL C-5
L6-30R, COL C-6	17	30							30	18	L6-30R, COL D-2
L6-30R, COL C-6	19	↓							↓	20	L6-30R, COL D-3
L6-20R, COL C-2	21	20							20	22	L6-20R, COL D-2
L6-20R, COL C-3	23	↓							↓	24	L6-20R, COL D-3
L6-20R, COL C-4	25	20							30	26	L21-30R COL D-2 & 3
L6-20R, COL C-5	27	↓								28	L21-30R COL D-2 & 3
L6-20R COL C-6	29	20							↓	30	L21-30R COL D-2 & 3
L6-20R, COL C-6	31	↓							20	32	
DBL DUPLEX, COL C-2 & 3	33	20							30	34	L21-30R, COL C-6
DBL DUPLEX, COL C4 & C5	35	20								36	L21-30R COL C-6
DBL DUPLEX COL C-6	37	20							↓	38	L21-30R COL C-6
DBL DUPLEX, COL D2 & D3	39	20							20	40	
	41	20							20	42	
			Φ KW TOTALS								

VOLTAGE: 120/208, 3Φ, 4W MAIN BREAKER 200A. WITH SHUNT TRIP

TOTAL KW. CONNECTED: TOTAL KW. DEMAND !

FED FROM : MAIN SW. BOARD

PP-7X (225A.) PANELBOARD SCHEDULE 4th FL. COOLING/PWR. RM

LOAD DESCRIPTION	CKT. NO.	CKT. BKR	CONNECTED KVA A	B	C	A	B	C	CKT. BKR	CKT. NO.	LOAD DESCRIPTION
RECEPTACLES COL E-6	1	20	.72			.4			20	2	RECEPT'S COL E-4
RECEPTACLES COL C-7	3	20		.54			.4		20	4	RECEPT'S COL E-4
RECEPT'S COL E-5	5	20			.4			.4	20	6	RECEPT'S COL E-3
RECEPT'S COL E-5	7	20	.4			.4			20	8	RECEPT'S COL E-3
RECEPT'S COL E-5	9	20		.4			.4		20	10	RECEPT'S COL E-3
RECEPT'S COL E-5	11	20			.4			.4	20	12	RECEPT'S COL E-3
RECEPT'S COL E-5	13	20	.4			.4			20	14	RECEPT'S COL E-3
RECEPT'S COL E-5	15	20		.4			.4		20	16	RECEPT'S COL E-3
RECEPT'S COL E-6	17	20			.4			.4	20	18	RECEPT'S COL E-3
RECEPT'S COL E-6	19	20	.4			.4			20	20	RECEPT'S COL E-3
RECEPT'S COL D.2-6	21	20		.4			.4		20	22	RECEPT'S COL E-2
RECEPT'S COL E-7	23	20			.4			.4	20	24	RECEPT'S COL E-2
RECEPT'S COL E-7	25	20	.4			.4			20	26	RECEPT'S COL E-7
RECEPT'S COL E-7	27	20		.4			.4		20	28	RECEPT'S COL E-7
RECEPT'S COL E-7	29	20			.4			.4	20	30	RECEPT'S COL D.2-7
RECEPT'S COL D.2-7	31	20	.4						20	32	
RECEPT'S COL D.2-7	33	20		.4					20	34	
	35	20							20	36	
	37	20							20	38	
	39	30							30	40	
	41	30							30	42	
			Φ KW TOTALS								

VOLTAGE: 120/208, 3Φ, 4W MAIN BREAKER 200A. WITH SHUNT TRIP

TOTAL KW. CONNECTED: TOTAL KW. DEMAND !

FED FROM : 50 KVA UPS

PP-8X (225A.) PANELBOARD SCHEDULE

LOAD DESCRIPTION	CKT. NO.	CKT. BKR	CONNECTED KVA A	B	C	A	B	C	CKT. BKR	CKT. NO.	LOAD DESCRIPTION
	1	150							20	2	
AC UNIT (COOL & POWER)	3									4	CONDENSING UNIT (ROOF)
	5	↓							↓	6	
	7								20	8	
	9									10	GLYCOL PUMP (ROOF)
	11								↓	12	
	13									14	
	15									16	
	17									18	
	19									20	
	21									22	
	23									24	
	25									26	
	27									28	
	29									30	
	31									32	
	33									34	
	35									36	
	37									38	
	39									40	
	41									42	
			Φ KW TOTALS								

VOLTAGE: 120/208, 3Φ, 4W MAIN BREAKER 200A.

TOTAL KW. CONNECTED: TOTAL KW. DEMAND !

FED FROM : MAIN SW. BOARD

PANELBOARD SCHEDULE

LOAD DESCRIPTION	CKT. NO.	CKT. BKR	CONNECTED KVA A	B	C	A	B	C	CKT. BKR	CKT. NO.	LOAD DESCRIPTION
	1									2	
	3									4	
	5		(NOT							6	
	7			USED)						8	
	9									10	
	11									12	
	13									14	
	15									16	
	17									18	
	19									20	
	21									22	
	23									24	
	25									26	
	27									28	
	29									30	
	31									32	
	33									34	
	35									36	
	37									38	
	39									40	
	41									42	
			Φ KW TOTALS								

VOLTAGE: MAIN

TOTAL KW. CONNECTED: TOTAL KW. DEMAND !

FED FROM :

AS BUILT
3-1-91

BELCAN CORPORATION
10200 ANDERSON WAY
CINCINNATI, OHIO 45242
NUMBER: 5529-CE-030-1

ROBOTICS FACILITY
LEXINGTON CAMPUS
UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY

University of Kentucky
Lexington, Kentucky

approved by

PANEL SCHEDULES
University of Kentucky
Design and Construction
Division
architects engineers
221 Peterson Service Building
Lexington, Kentucky

JOB NO 5529
DATE 1/30/90
DRAWN D. MEYER
CHECKED
FILE NO.

NEW DRAWING

SHEET
E•30

Cab # Slot Document #
83 B-2 004996