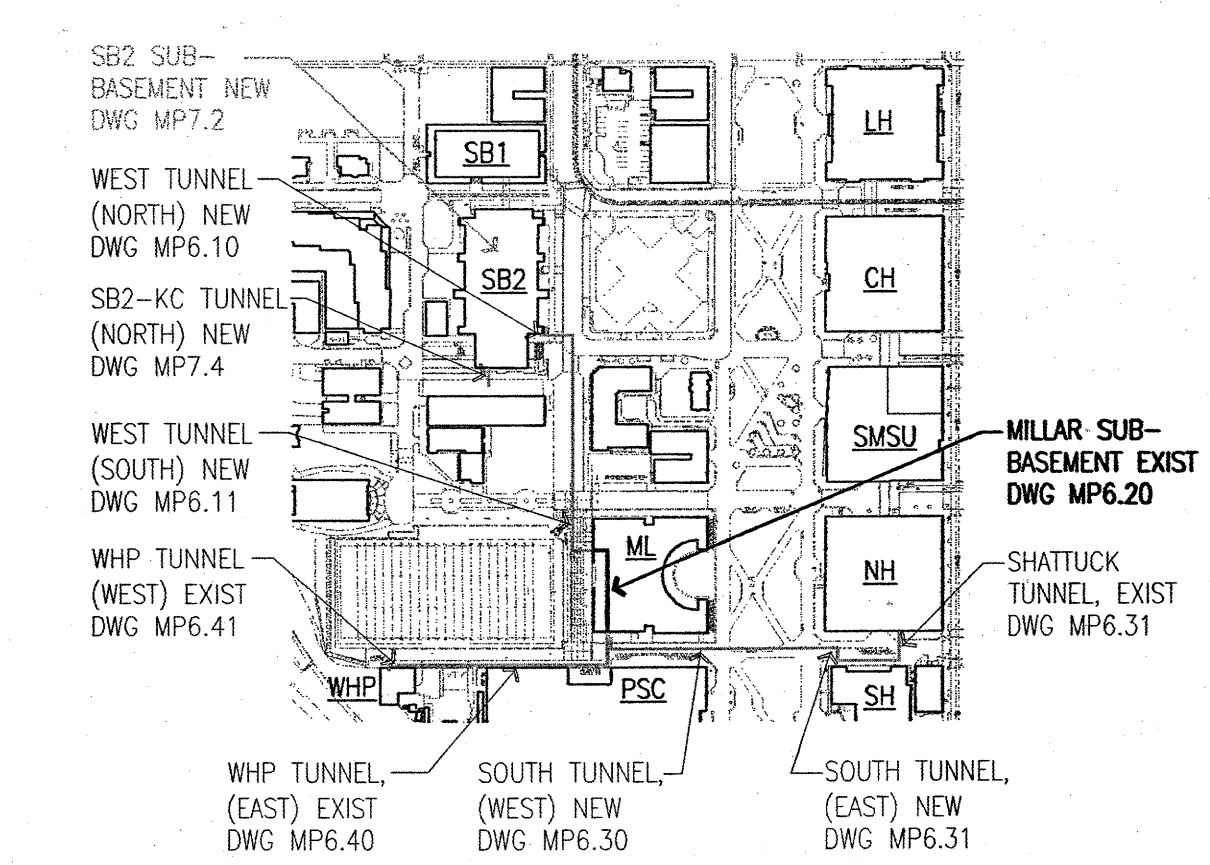


- KEYED NOTES**
- 1 ROTATE EXISTING VALVE HANDLE AWAY FROM TUNNEL ACCESS.
  - 2 1/2" DRN (SUMP DRAIN), ROUTE TO MILLAR LIBRARY. FIELD LOCATE NEAREST FLOOR DRAIN OR SUMP.
  - 3 2" CR SLOPED TOWARDS MILLAR LIBRARY. NEW CONDENSATE PUMP STATION LOCATED IN MILLAR.
  - 4 CWS/CWR PIPING CAN BE EITHER VICTALUX OR WELDED.
  - 5 PIPE RACK DESIGNED BY CONTRACTOR. SEE STRUCTURAL PERFORMANCE SPEC ON DRAWING SO.4. CO-ORDINATE AVAILABLE EMBEDDED CHANNELS IN PRECAST TUNNEL SECTIONS WITH PRIME CONTRACTOR.



NO.	DATE	DESCRIPTION	BY	CHKD
1	12/15/11	REVISIONS	RSF	APR
2				
3				
4				
5				

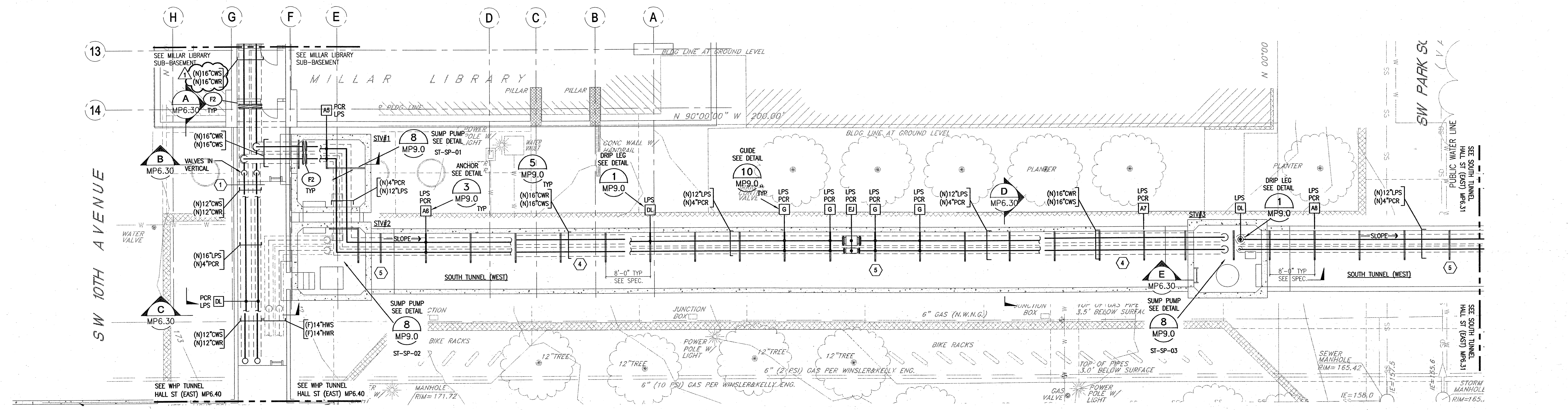
**WINZLER & KELLY**  
15575 SW SEVILLA PARKWAY, SUITE 140  
PORTLAND, OREGON 97224  
PH: 503-226-3821 FAX: 503-226-3926

DESIGNED: [ ]  
DRAWN: [ ]  
DATE: 06/07/09  
SCALE: 1/8" = 1'-0"  
PROJECT: CAMPUS WIDE LOOP PHASE 2  
SHEET: 139 OF 198

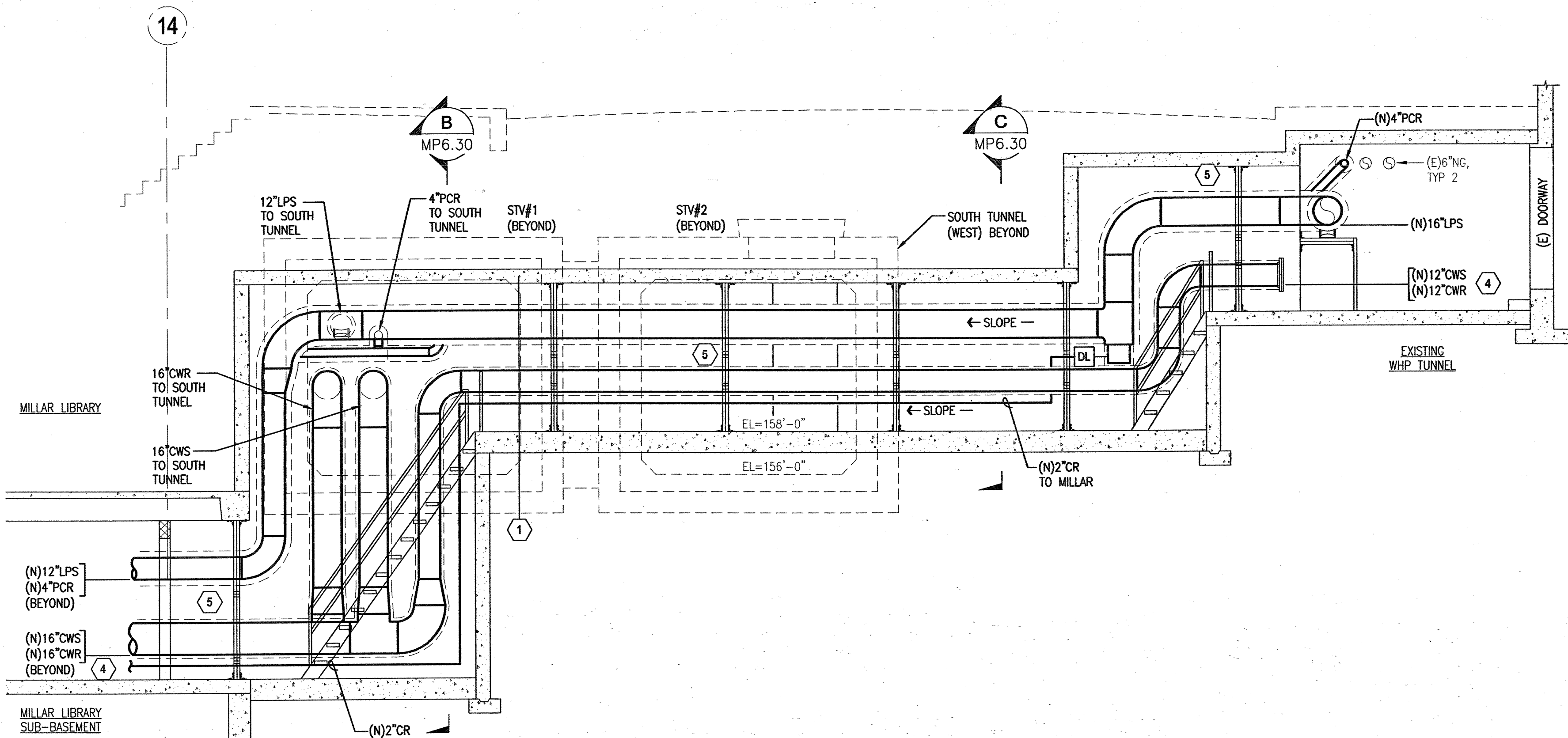
PORTLAND STATE UNIVERSITY  
CAMPUS WIDE LOOP PHASE 2  
STEAM & CHILLED WATER IMPROVEMENTS  
MECHANICAL  
MILLAR LIBRARY PIPING PLAN AND  
ELEVATIONS

JOB NUMBER: 10909-09001  
SHEET: 139 OF 198  
MP6.20

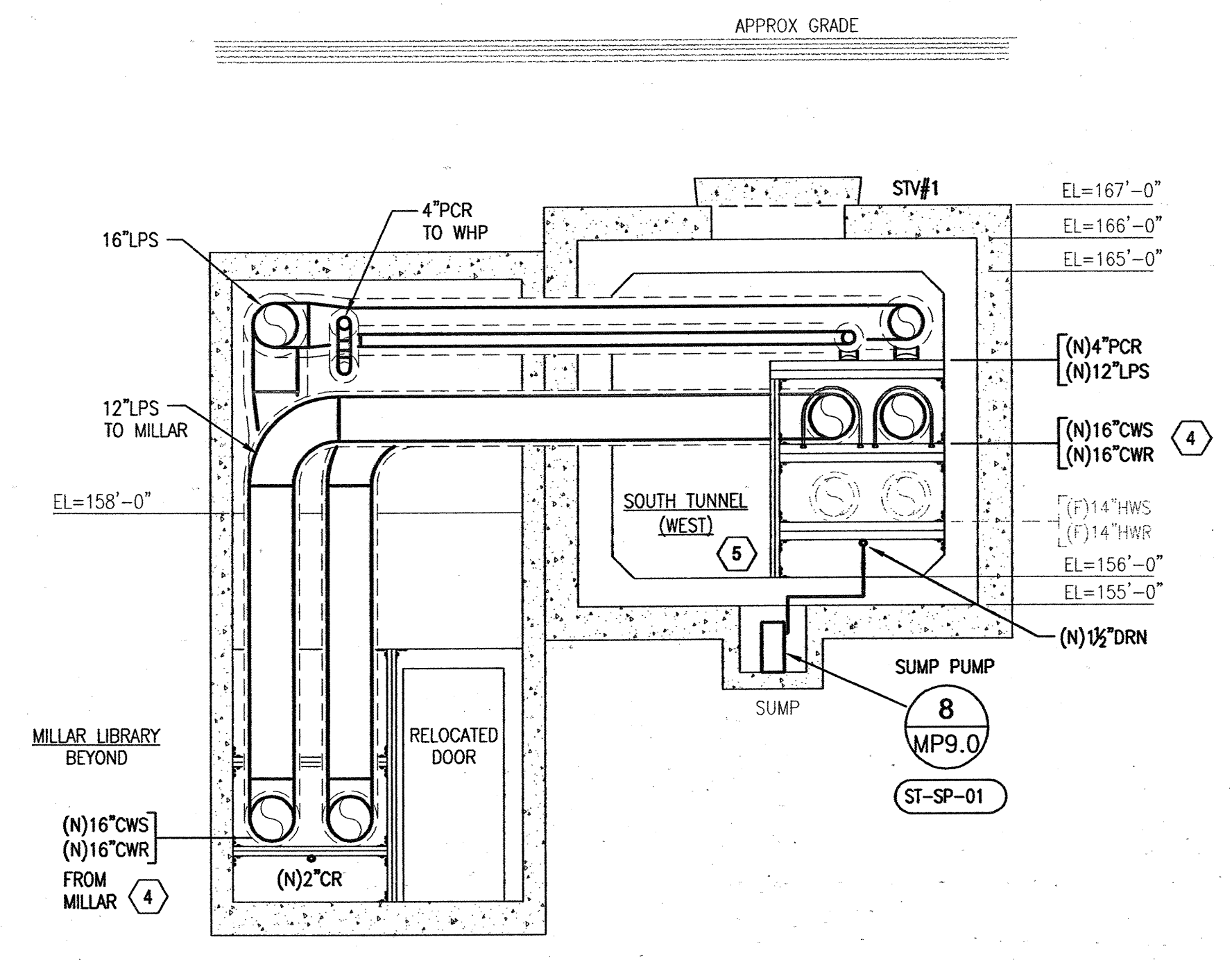
01/10/09 - PSU (PORTLAND STATE UNIVERSITY) 10909-09001 PSU CAMPUS WIDE LOOP PHASE 2 (MECHANICAL) 10909-09001\_L09\_MPS\_20-MILLAR LIBR COMPARED 12/23/2011 10:23 AM



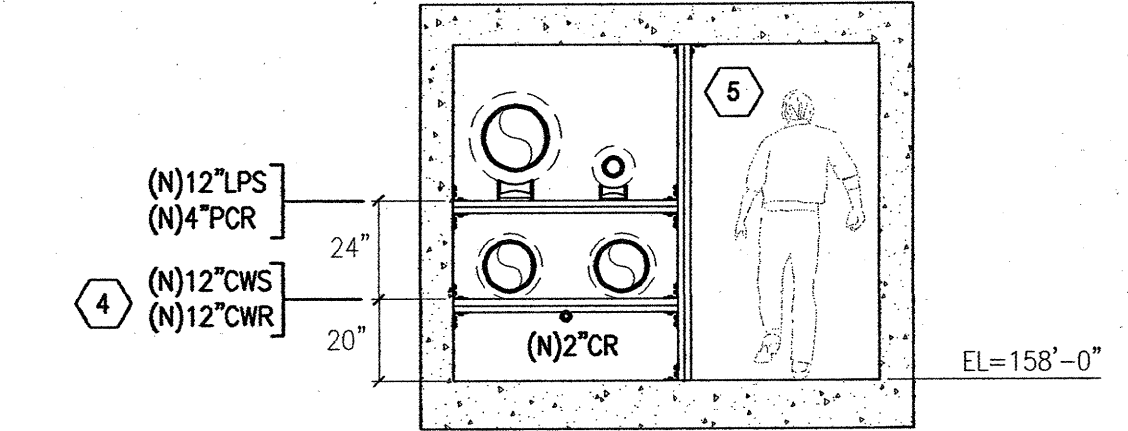
**1 SOUTH TUNNEL PIPING PLAN HALL STREET (WEST)**  
SCALE: 1/8" = 1'-0"



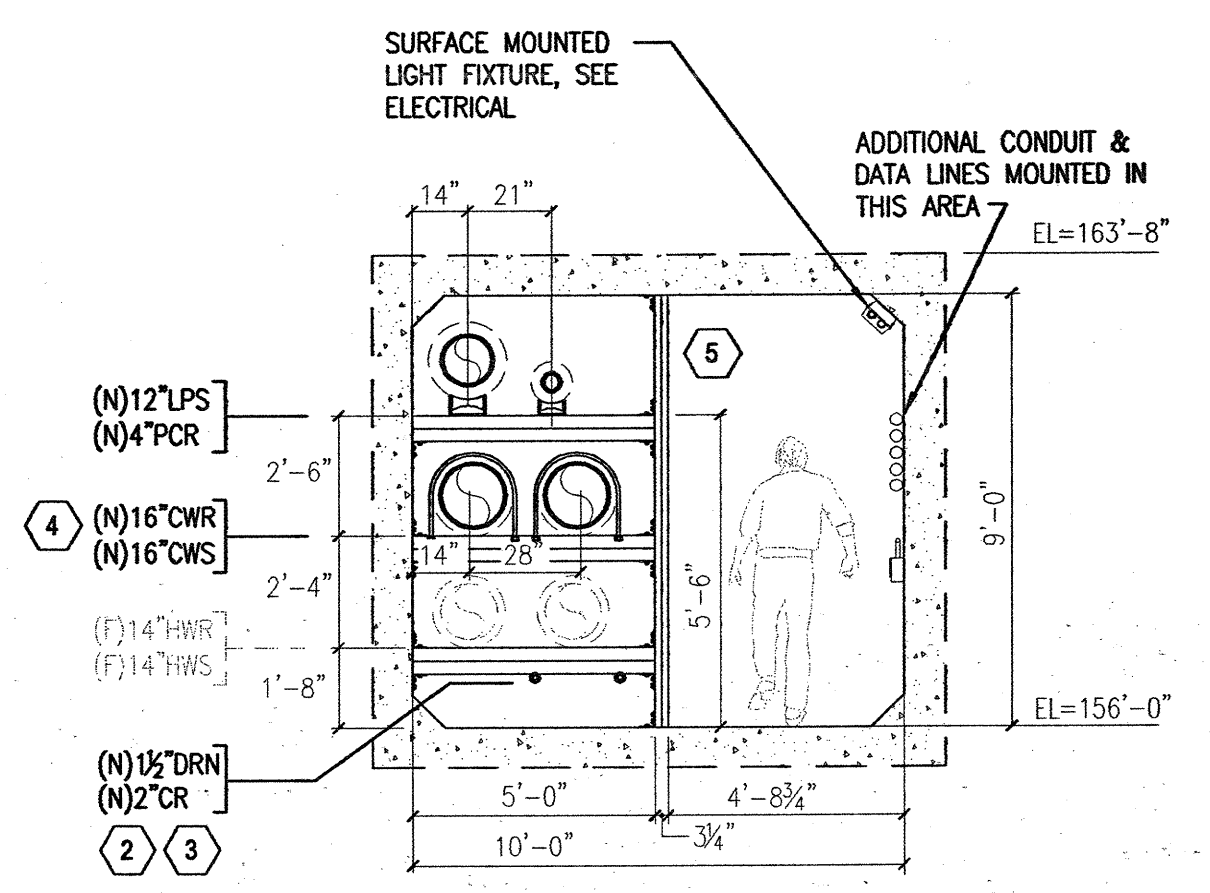
**A SOUTH TUNNEL PIPING SECTION HALL STREET (WEST)**  
SCALE: 1/4" = 1'-0"



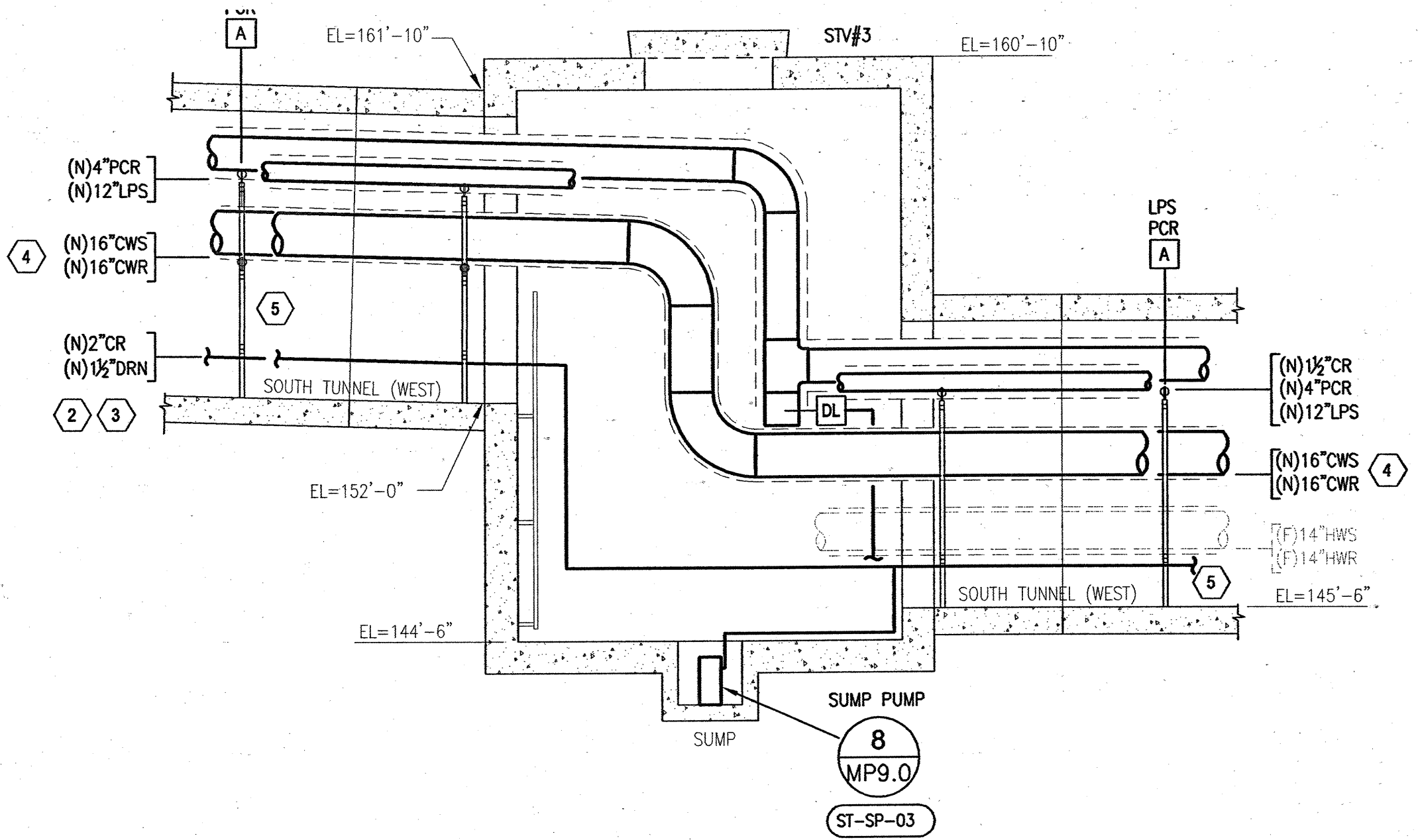
**B SOUTH TUNNEL PIPING SECTION HALL STREET (WEST)**  
SCALE: 1/4" = 1'-0"



**C SOUTH TUNNEL PIPING SECTION HALL STREET (WEST)**  
SCALE: 1/4" = 1'-0"



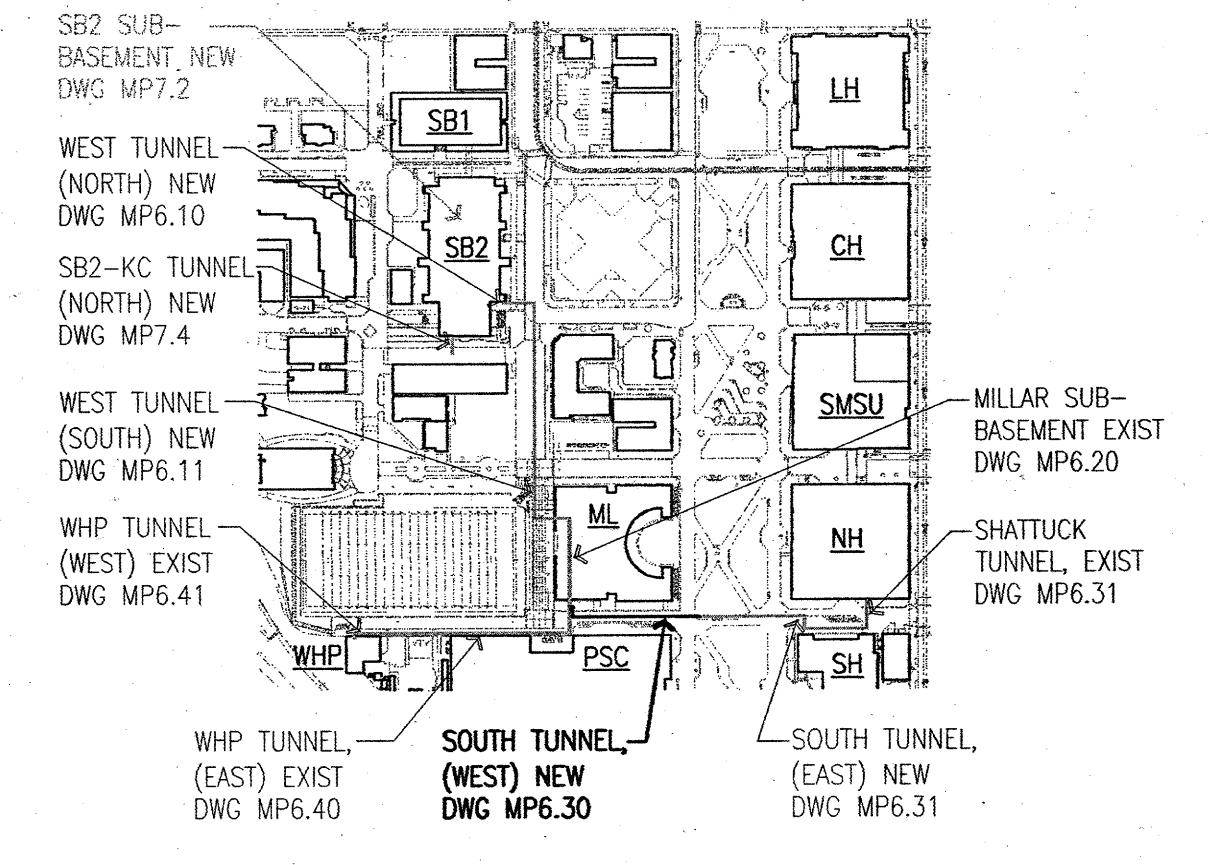
**D SOUTH TUNNEL PIPING SECTION HALL STREET (WEST)**  
SCALE: 1/4" = 1'-0"



**E SOUTH TUNNEL PIPING SECTION HALL STREET (WEST)**  
SCALE: 1/4" = 1'-0"

**KEYED NOTES**

- START OF AB-1. IF AB-1 IS NOT INCLUDED IN SCOPE OF WORK, EXISTING LPS/PCR FROM WEST HEATING PLANT TUNNEL WILL TIE INTO NEW CAMPUS LOOP AT THIS LOCATION.
- 1/2" DRN (SUMP DRAIN), ROUTE TO MILLAR LIBRARY. FIELD LOCATE NEAREST FLOOR DRAIN OR SUMP.
- 2" CR SLOPED TOWARDS MILLAR LIBRARY. NEW CONDENSATE PUMP STATION LOCATED IN MILLAR.
- CWS/CWR PIPING CAN BE EITHER VICTAULIC OR WELDED.
- PIPE RACK DESIGNED BY CONTRACTOR. SEE STRUCTURAL PERFORMANCE SPEC ON DRAWING SO.4. CO-ORDINATE AVAILABLE EMBEDDED CHANNELS IN PRECAST TUNNEL SECTIONS WITH PRIME CONTRACTOR.



**PIPING KEY PLAN CAMPUS WIDE LOOP PHASE 2**

1/8" = 1'-0" 5' 0 5' 10' 15' 20' 25'

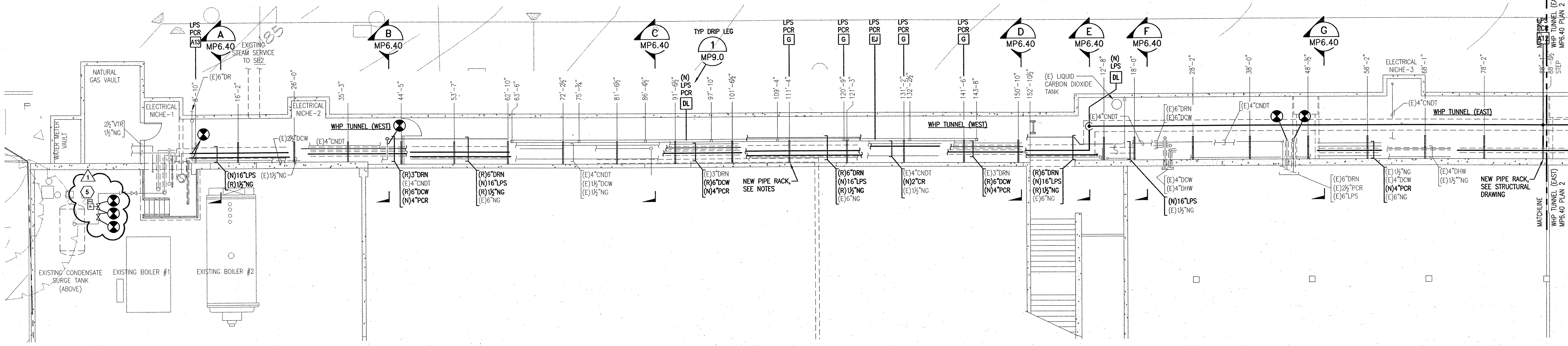
NO.	DATE	DESCRIPTION	REVISIONS
0	12/15/11	RECORD DRAWING	REVISED

**WINZLER & KELLY**  
15575 SW SEQUOIA PKWY, SUITE 140  
PORTLAND, OR 97224  
PH: 503-228-3921 FAX: 503-228-3928

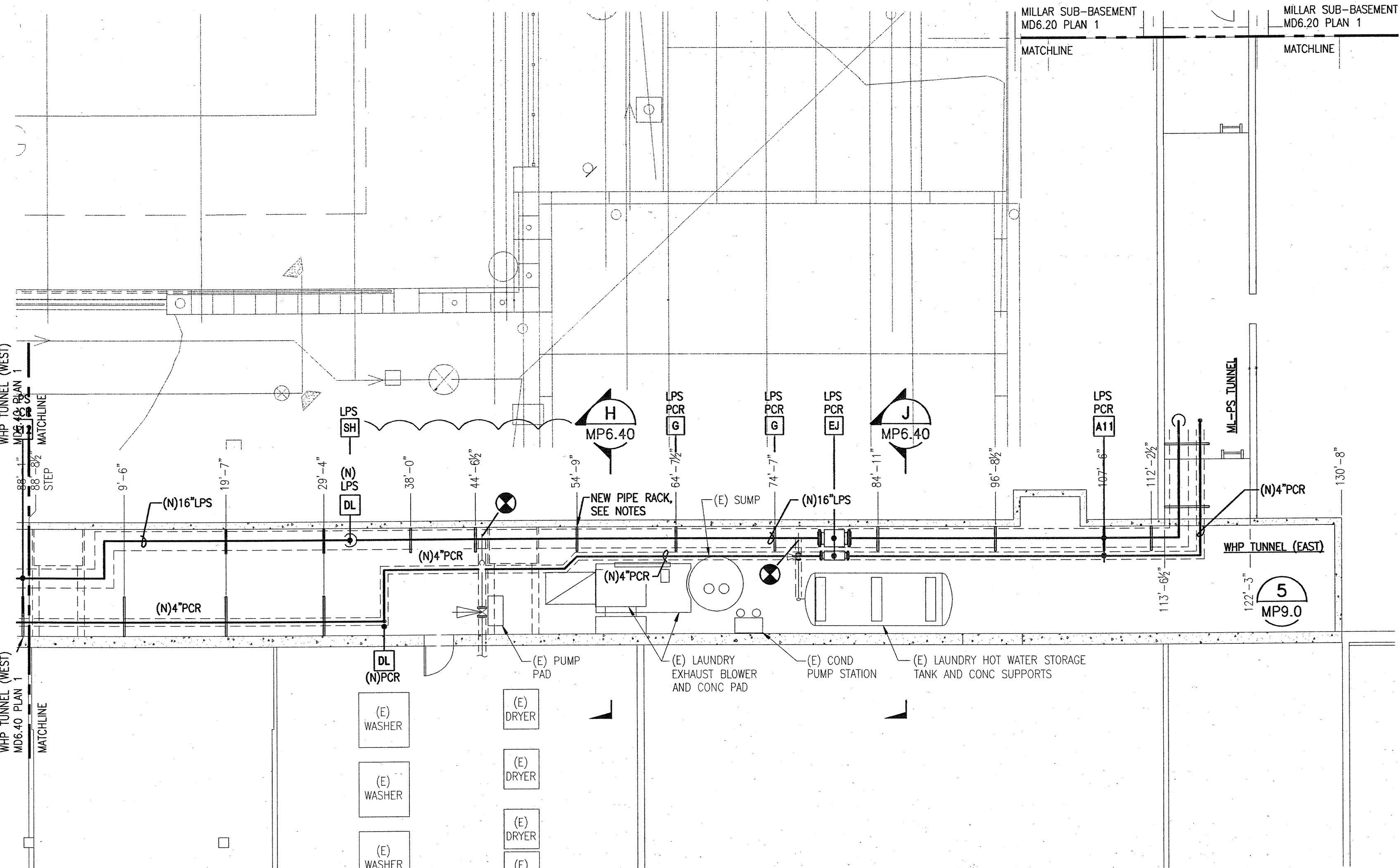
DESIGNED	CHECKED	DATE	SCALE
		05/22/09	1/8" = 1'-0"

PORTLAND STATE UNIVERSITY  
**CAMPUS WIDE LOOP PHASE 2  
STEAM & CHILLED WATER IMPROVEMENTS**  
MECHANICAL  
**SOUTH TUNNEL PIPING PLAN AND SECTIONS  
HALL STREET (WEST)**

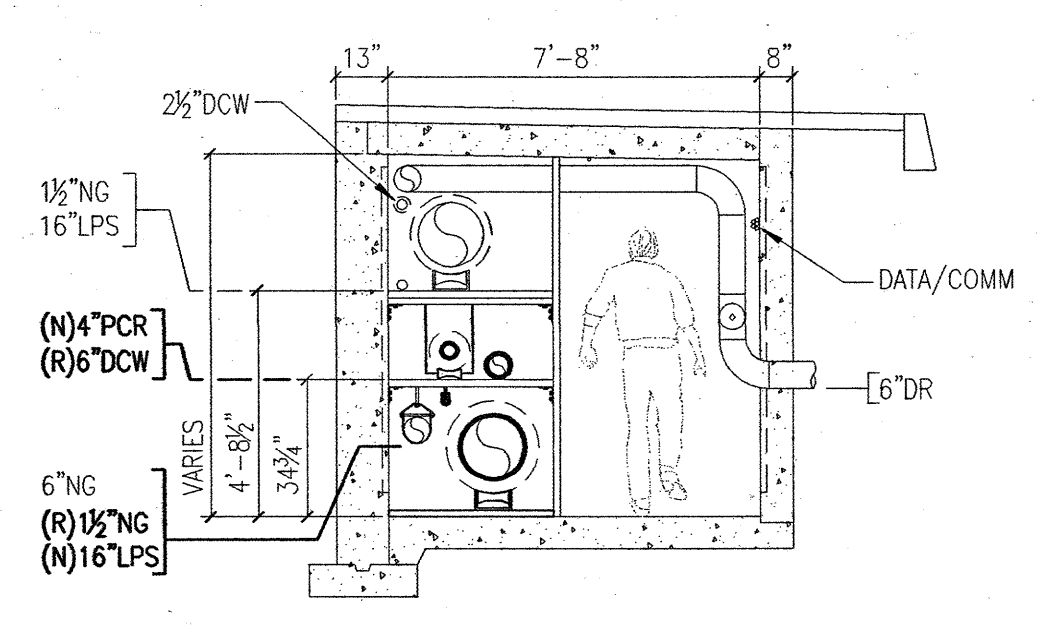
JOB NUMBER: 10909-09001  
SHEET: 140 OF 198  
**MP6.30**



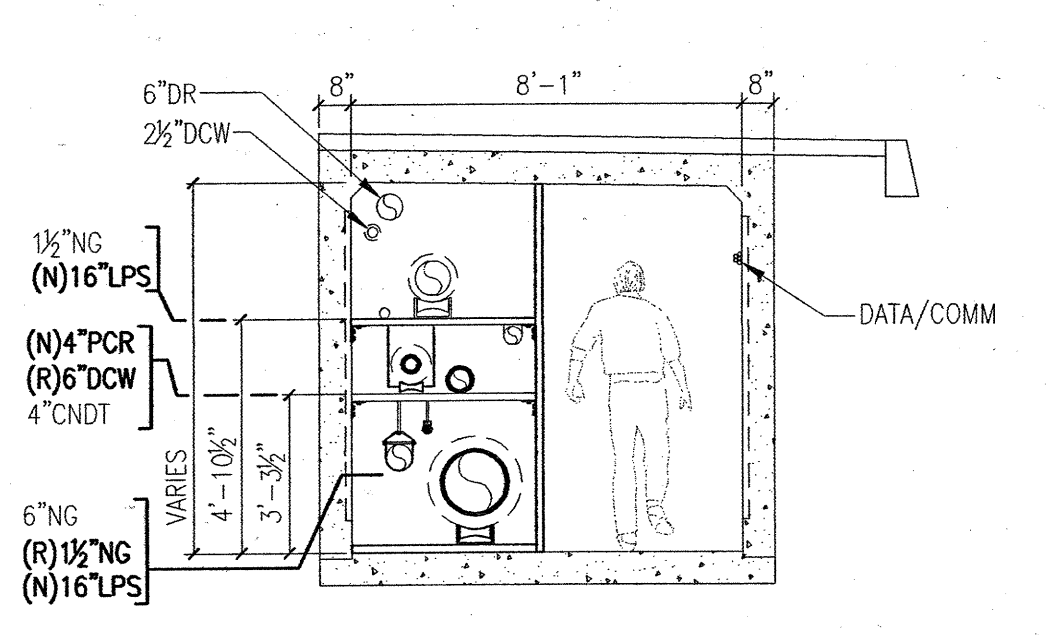
1  
MP6.40  
NEW PIPING PLAN  
WEST HEATING PLANT TUNNEL (WEST)  
SCALE: 1/8" = 1'-0"



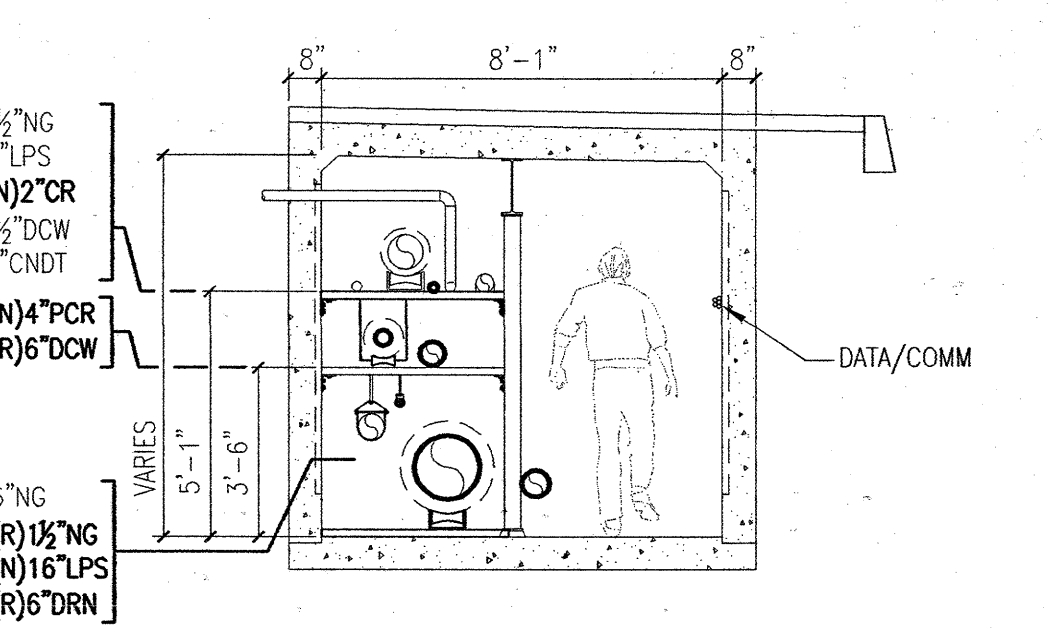
2  
MP6.40  
NEW PIPING PLAN  
WEST HEATING PLANT TUNNEL (EAST)  
SCALE: 1/8" = 1'-0"



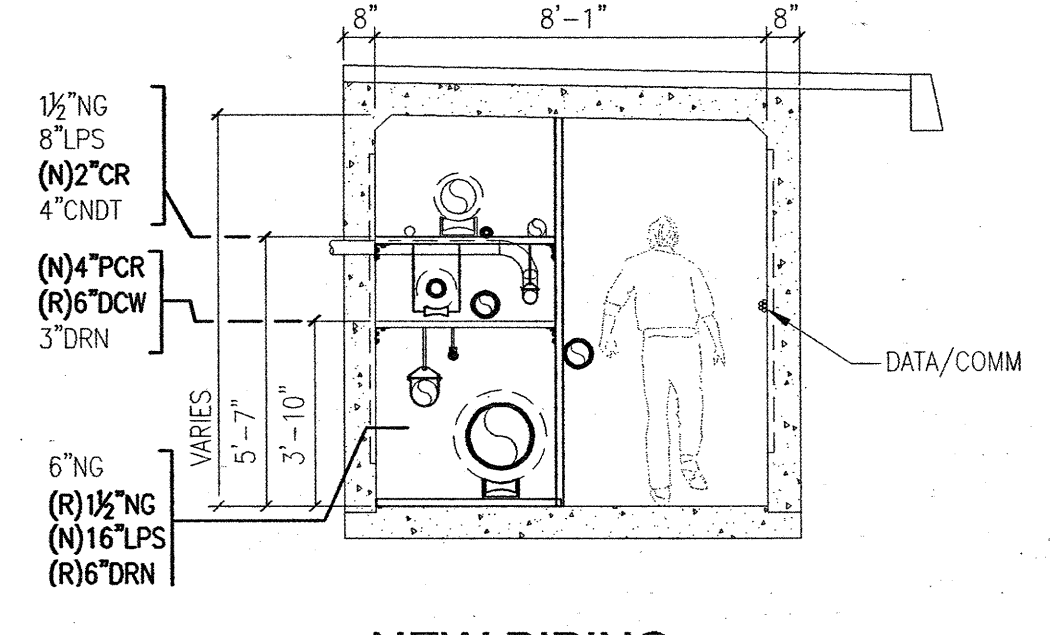
A  
MP6.40  
NEW PIPING  
TUNNEL SECTION  
SCALE: 1/4" = 1'-0"



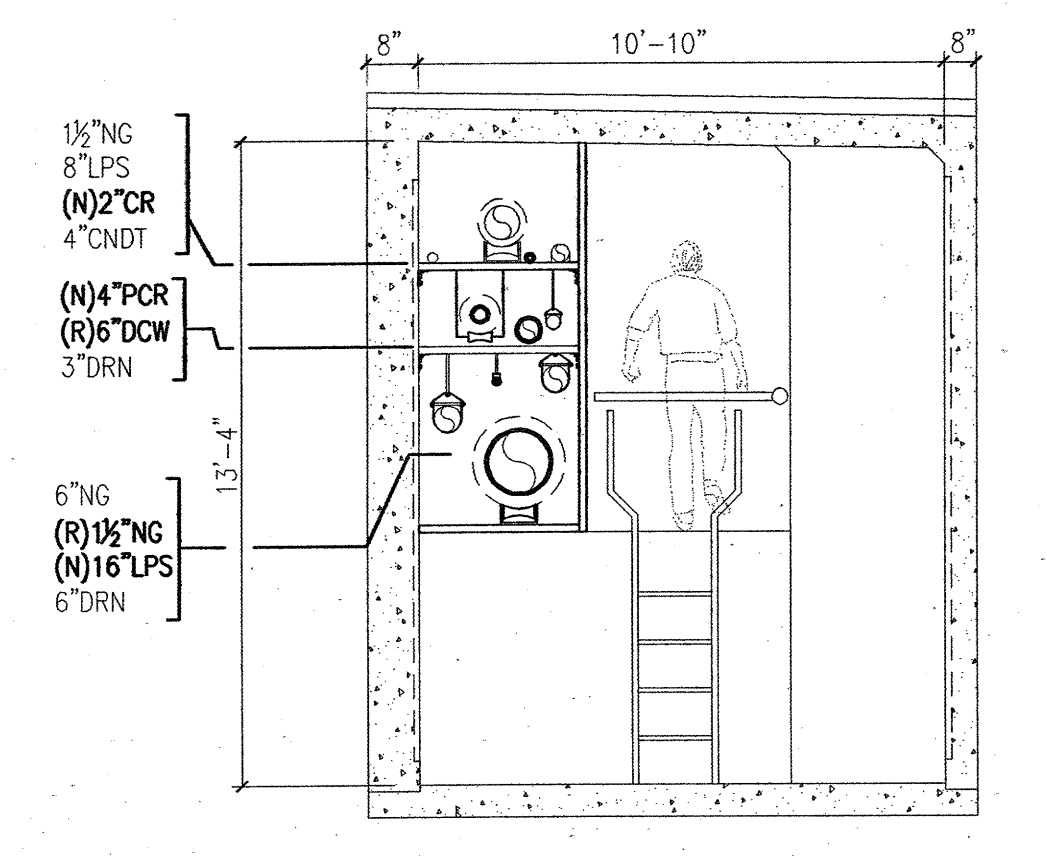
B  
MP6.40  
NEW PIPING  
TUNNEL SECTION  
SCALE: 1/4" = 1'-0"



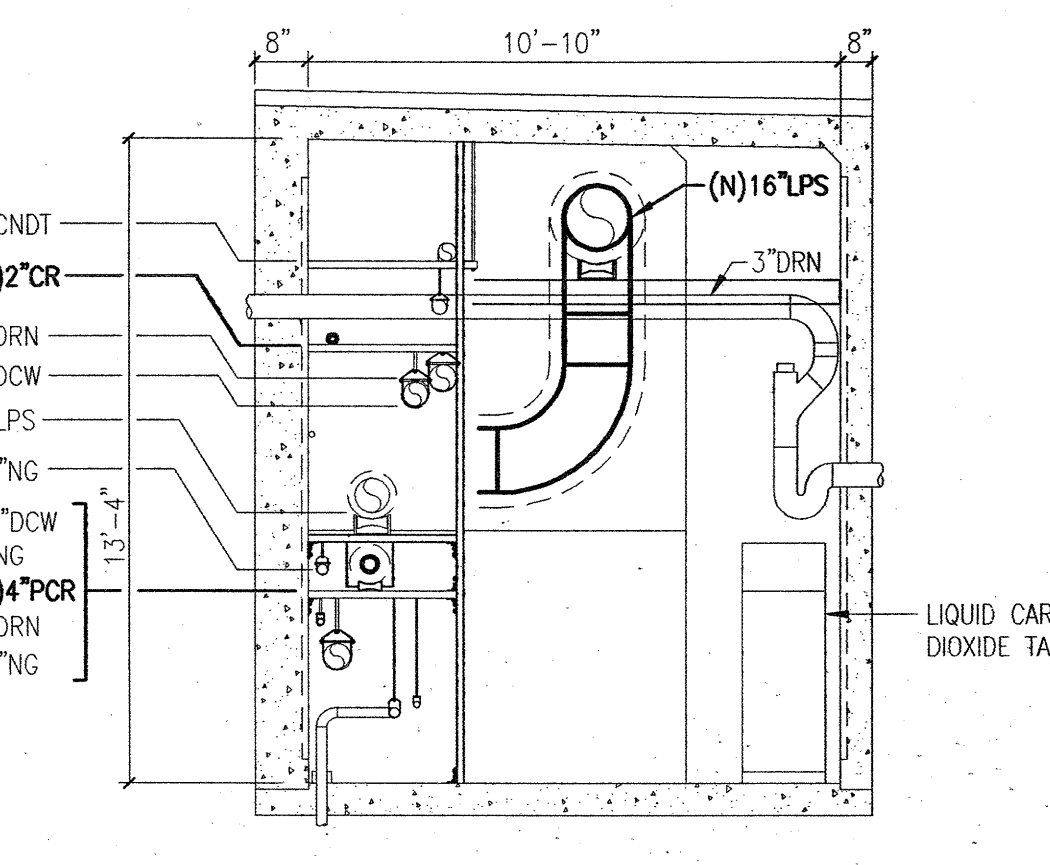
C  
MP6.40  
NEW PIPING  
TUNNEL SECTION  
SCALE: 1/4" = 1'-0"



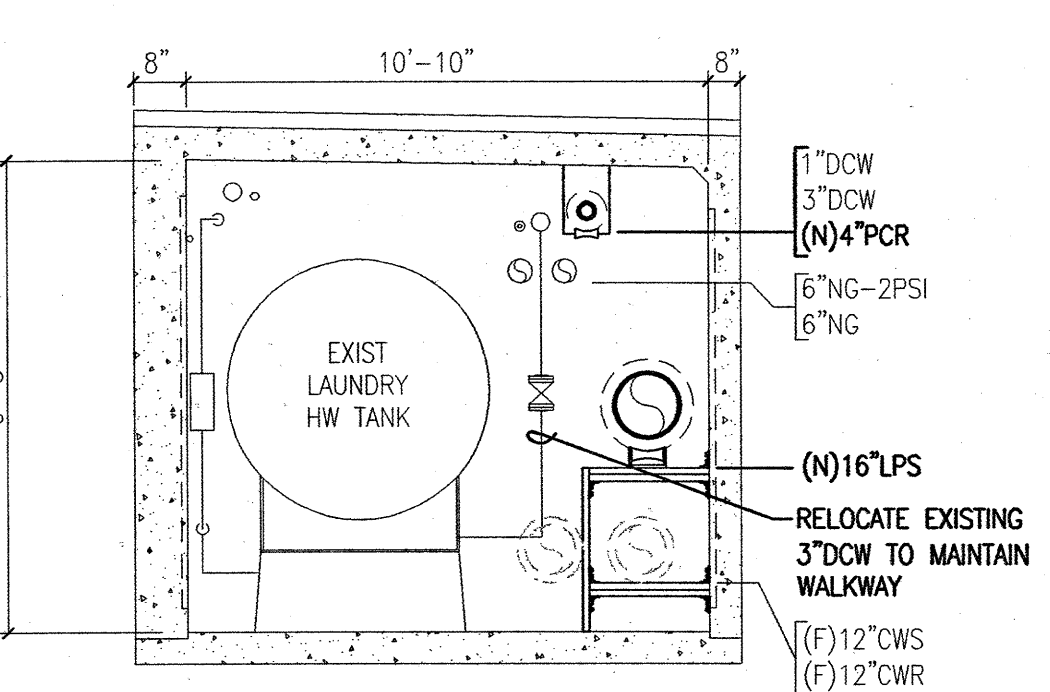
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NEW PIPING  
TUNNEL SECTION  
SCALE: 1/4" = 1'-0"



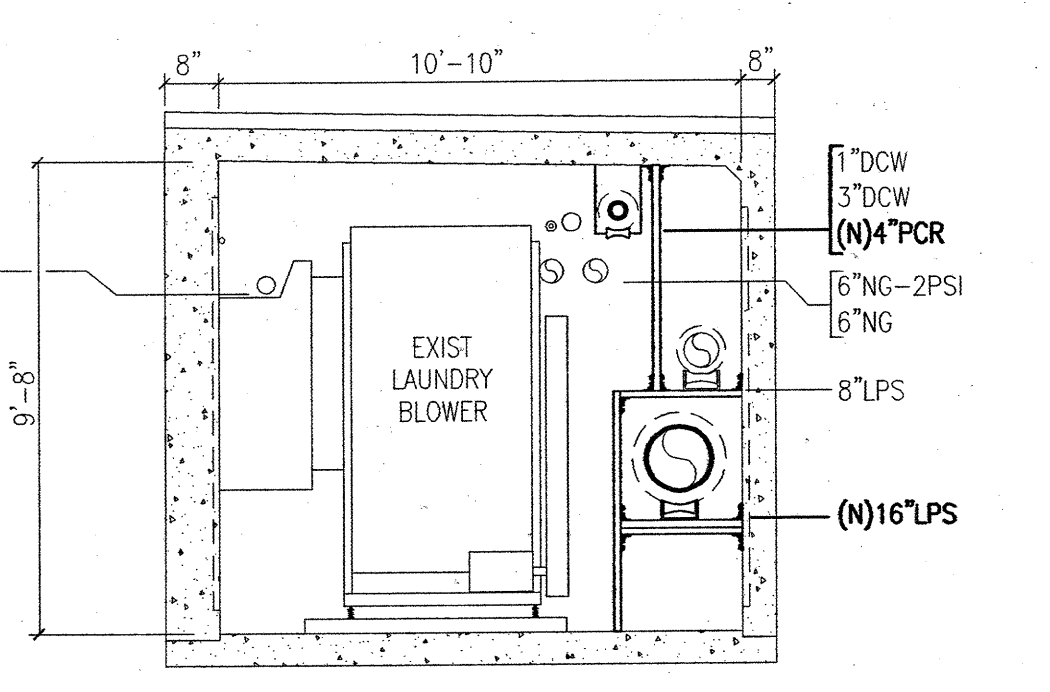
E  
MP6.40  
NEW PIPING  
TUNNEL SECTION  
SCALE: 1/4" = 1'-0"



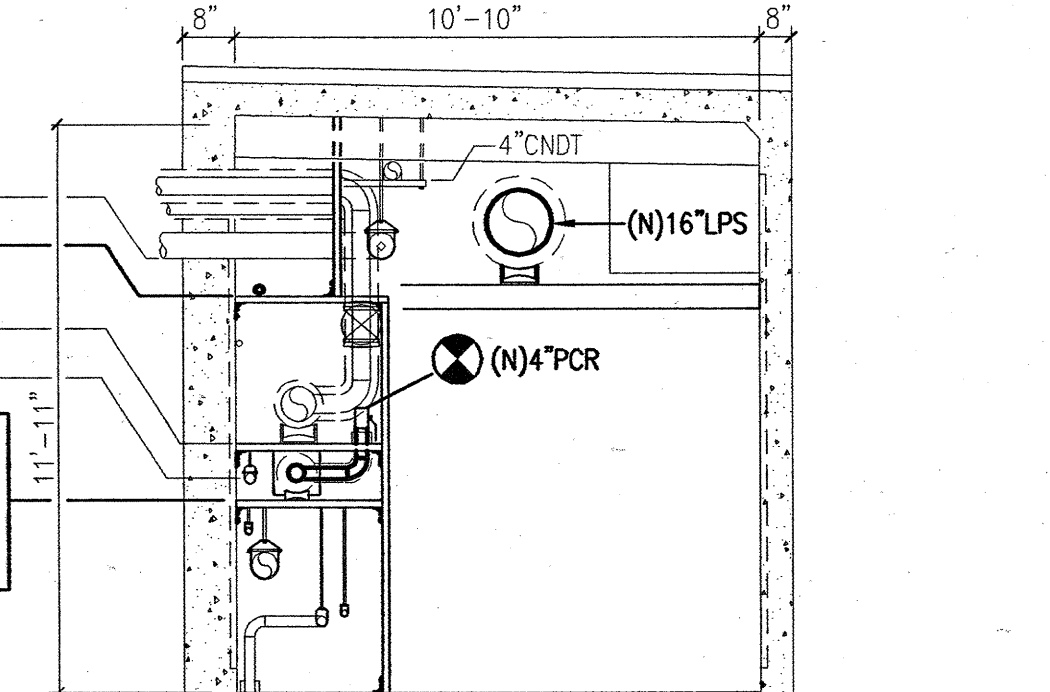
F  
MP6.40  
NEW PIPING  
TUNNEL SECTION  
SCALE: 1/4" = 1'-0"



J  
MP6.40  
NEW PIPING  
TUNNEL SECTION  
SCALE: 1/4" = 1'-0"



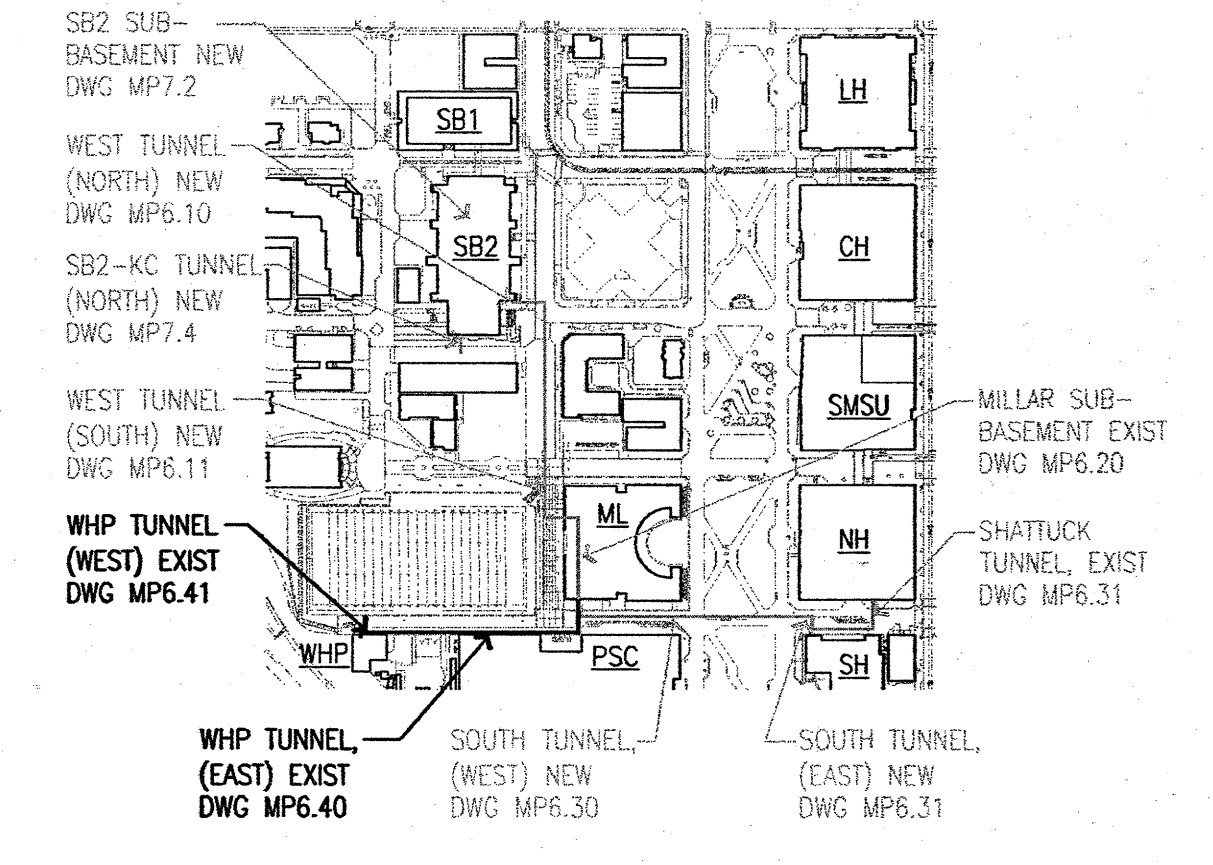
H  
MP6.40  
NEW PIPING  
TUNNEL SECTION  
SCALE: 1/4" = 1'-0"



G  
MP6.40  
NEW PIPING  
TUNNEL SECTION  
SCALE: 1/4" = 1'-0"

**KEYED NOTES**

- 1 1/2" DRN (SUMP DRAIN), ROUTE TO MILLAR LIBRARY. FIELD LOCATE NEAREST FLOOR DRAIN OR SUMP.
- 2" CR SLOPED TOWARDS SOUTH TUNNEL #4. NEW CONDENSATE PUMP STATION LOCATED IN STV#4.
- 3 CWS/CWR PIPING CAN BE EITHER VICTAULIC OR WELDED.
- 4 PIPE RACK DESIGNED BY CONTRACTOR. SEE STRUCTURAL PERFORMANCE SPEC ON DRAWING SO.4. CO-ORDINATE AVAILABLE EMBEDDED CHANNELS IN PRECAST TUNNEL SECTIONS WITH PRIME CONTRACTOR.
- 5 INSTALL CONTROL VALVE ONLY. INSTRUMENTATION WILL FOLLOW IN P2-BP4.



PIPING KEY PLAN  
CAMPUS WIDE LOOP  
PHASE 2

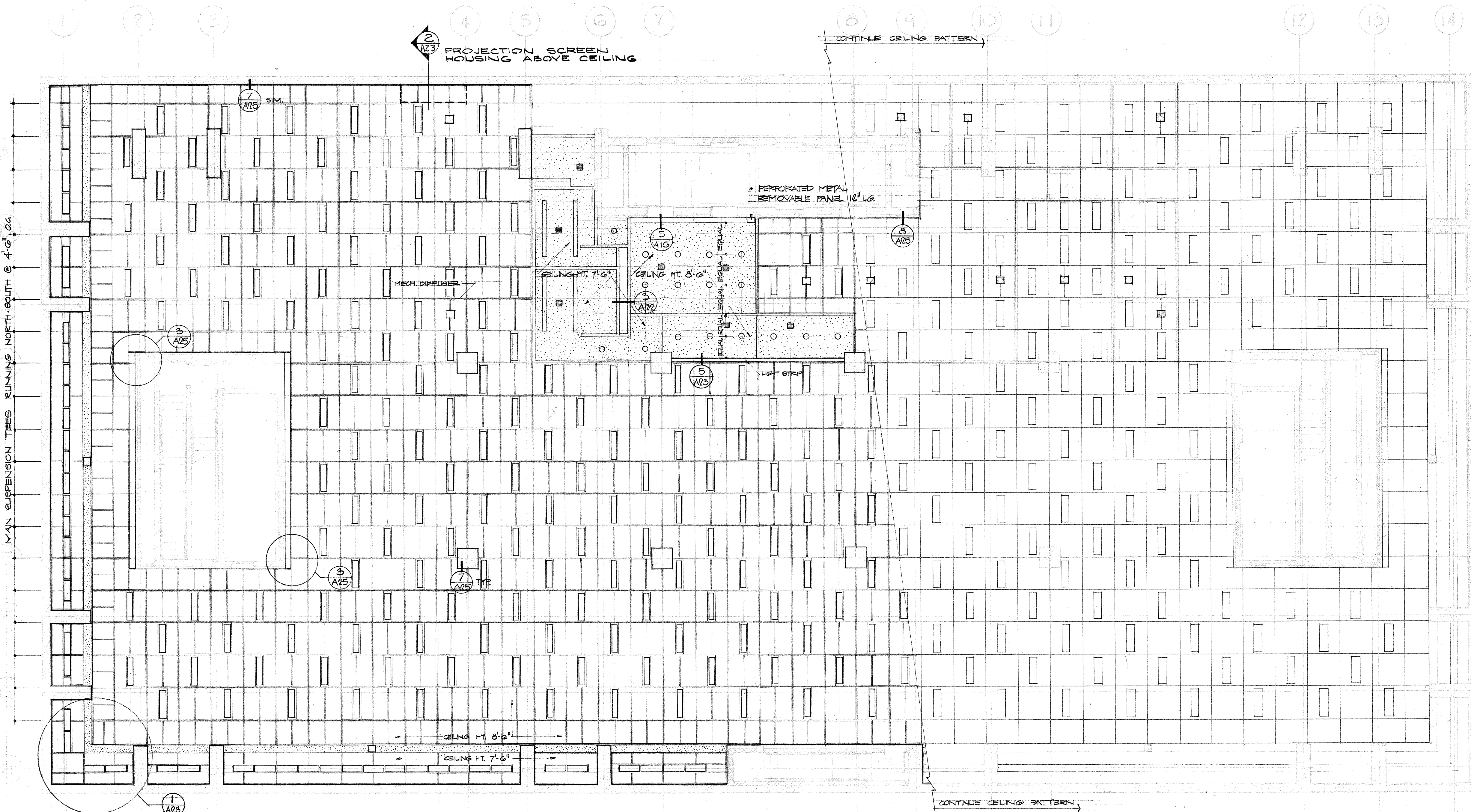
1/8" = 1'-0" 5' 0' 5' 10' 15' 20' 25'

**WINZLER & KELLY**  
1575 SW SECOND AVENUE, SUITE 140  
PORTLAND, OR 97224  
PH: 503-226-3921 FAX: 503-226-3926

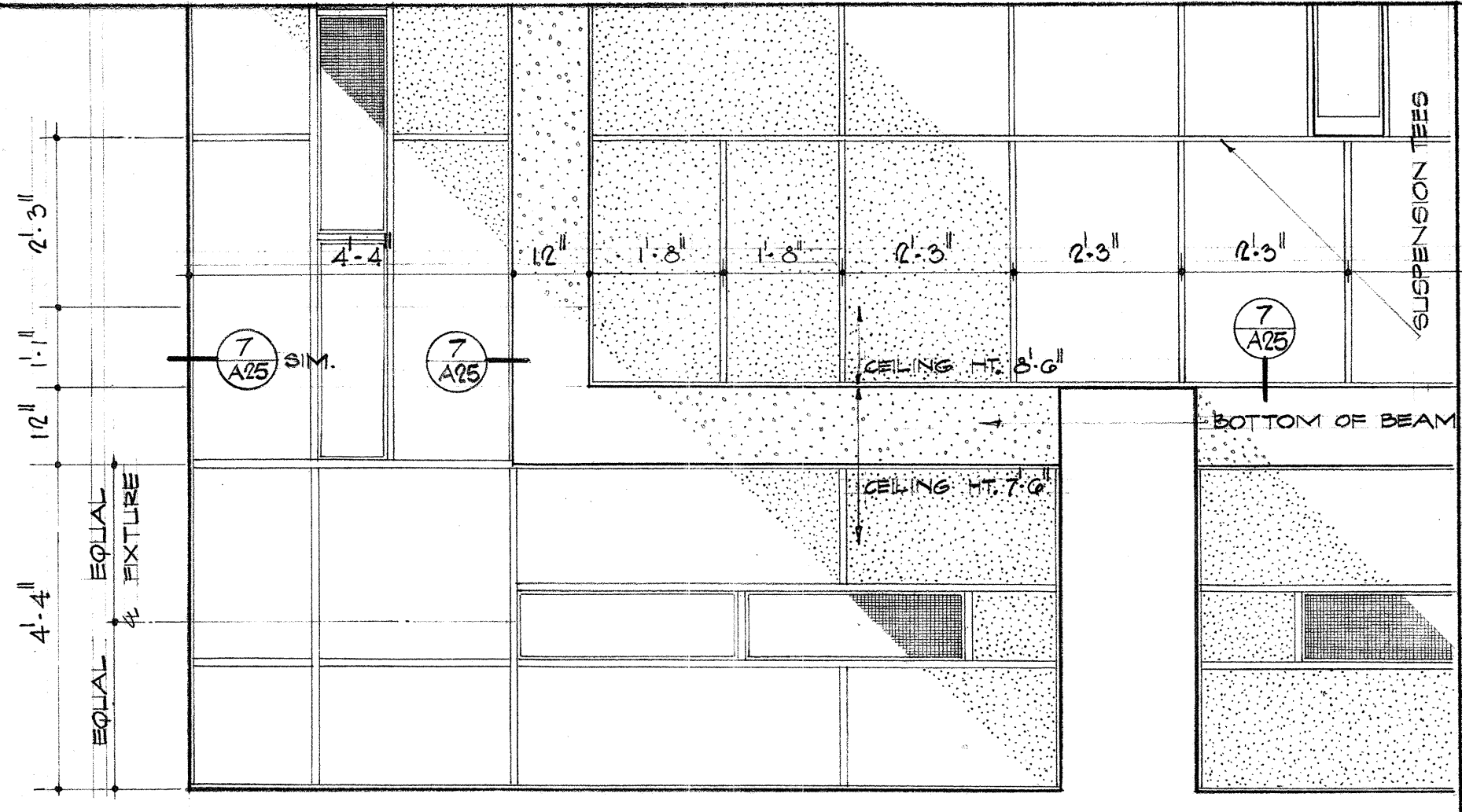
ISSUED	DATE	BY	DESCRIPTION
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12/15/11 <td>12/15/11 <td>RSF <td>DATE</td> </td></td>	12/15/11 <td>RSF <td>DATE</td> </td>	RSF <td>DATE</td>	DATE

PORTLAND STATE UNIVERSITY  
CAMPUS WIDE LOOP PHASE 2  
STEAM & CHILLED WATER IMPROVEMENTS  
MECHANICAL  
WEST HEATING PLANT TUNNEL  
PIPING PLAN

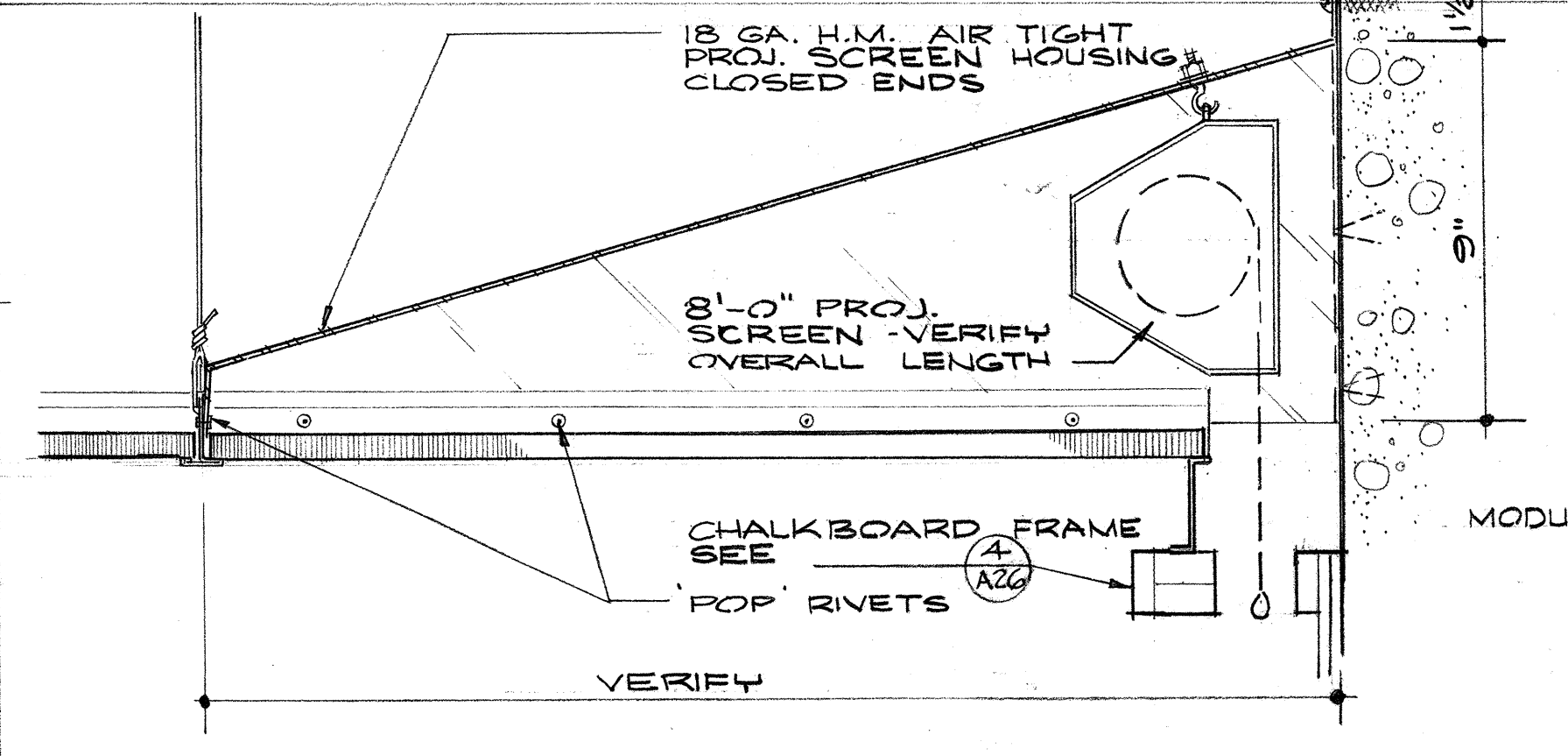
JOB NUMBER  
10909-09001  
SHEET  
142 of 198  
MP6.40



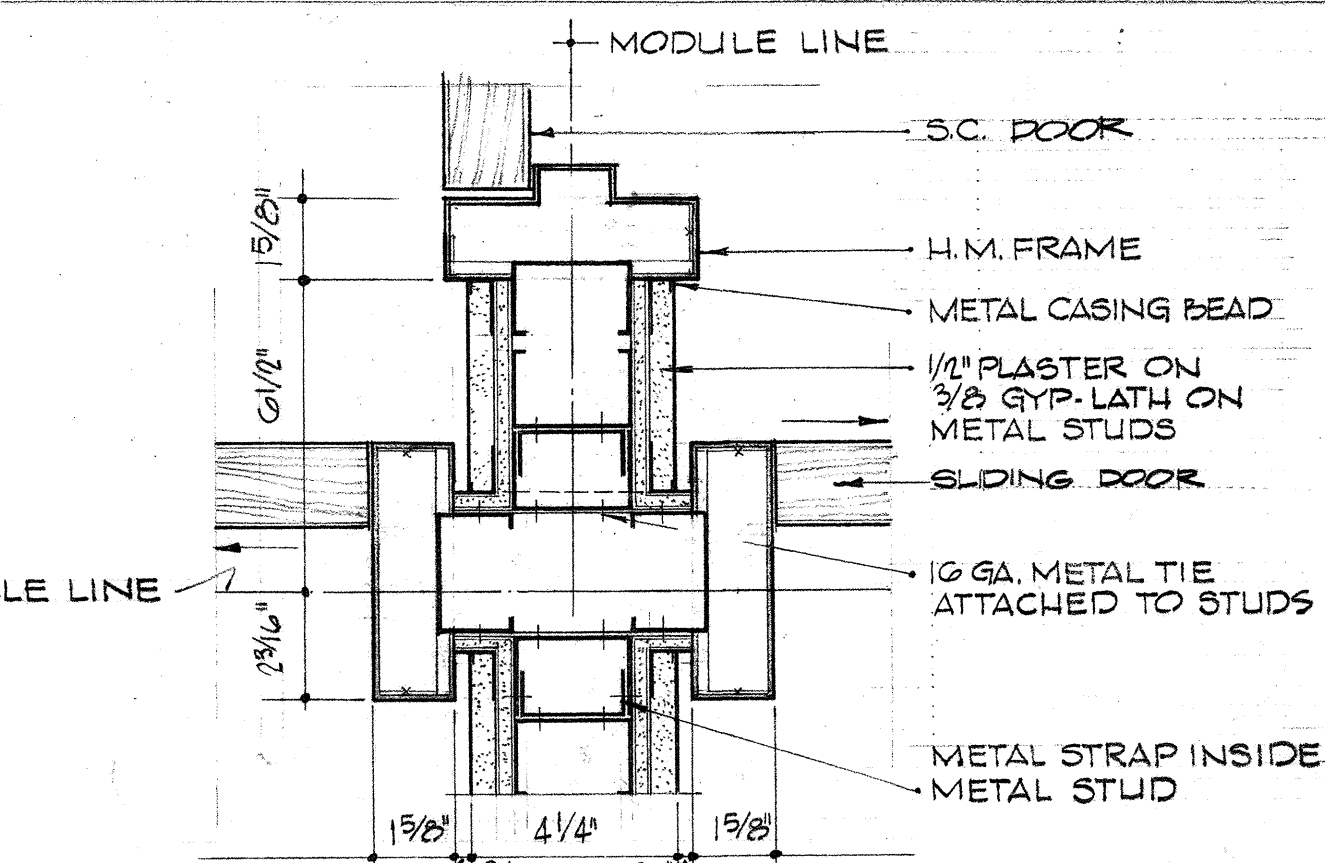
**A** BASEMENT REFLECTED CEILING PLAN  
SCALE 1/8" = 1'-0"



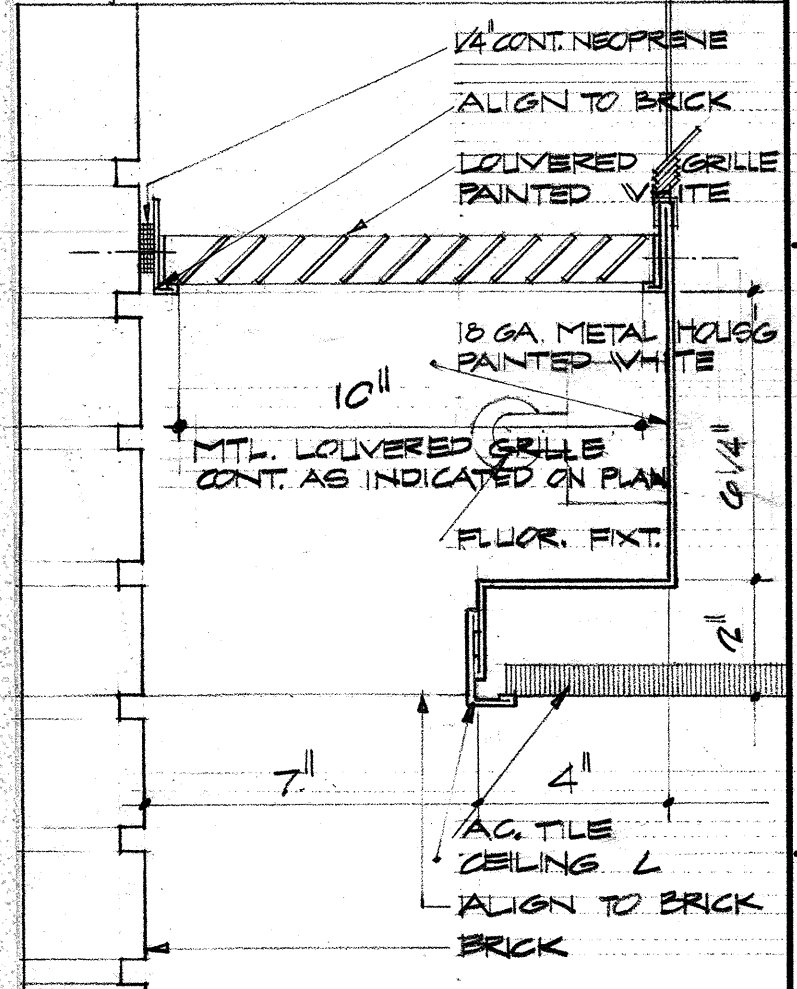
**1** ENLARGED REFLECTED CORNER  
SCALE 1/2" = 1'-0"



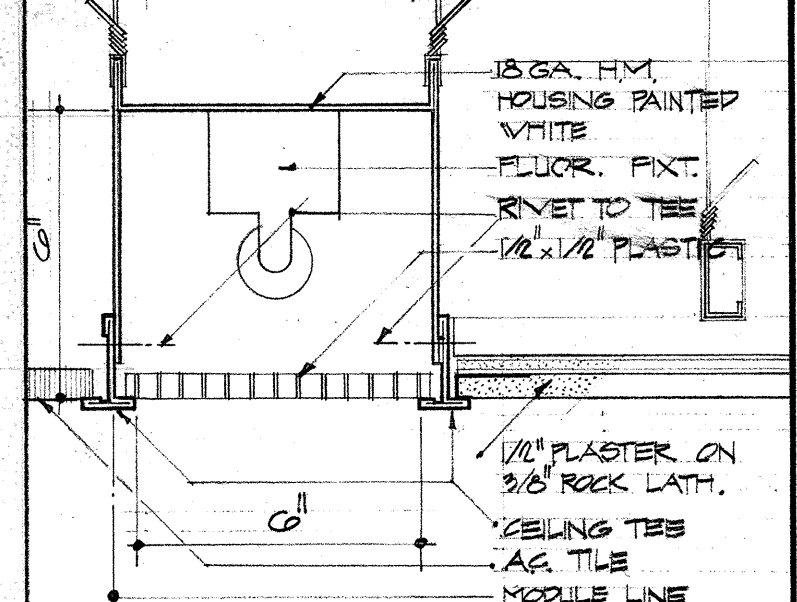
**2** PROJECTION SCREEN HOUSING  
SCALE 3" = 1'-0"



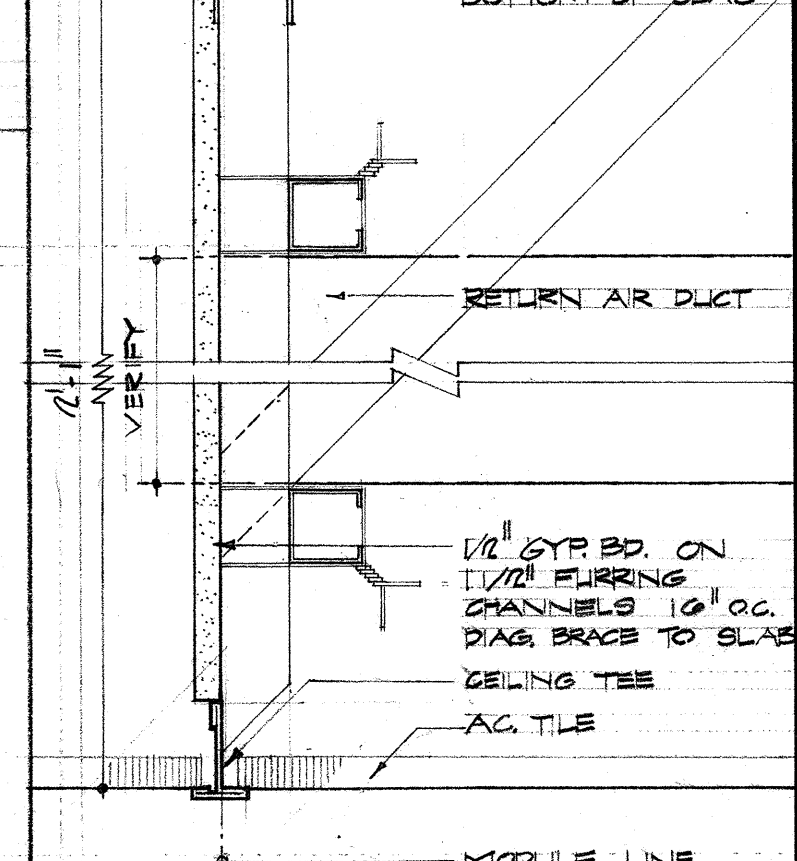
**3** JAMB DETAIL  
SCALE 3" = 1'-0"



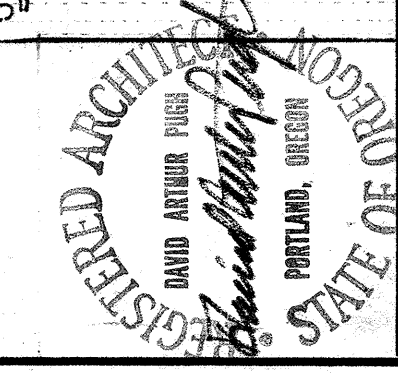
**4** LOWERED LOUVE LIGHT  
SCALE 3" = 1'-0"



**5** RECESSED LIGHT STRIP  
SCALE 3" = 1'-0"



**4** DUCT SPACE CLOSER  
SCALE 3" = 1'-0"



**SKIDMORE, OWINGS & MERRILL**  
ARCHITECTS  
PORTLAND, OREGON

JOB NUMBER 15342D  
DATE ISSUED 3-31-66  
DATE APPROVED \_\_\_\_\_  
DATE REVISED \_\_\_\_\_

**PORTLAND STATE COLLEGE**  
LIBRARY  
PORTLAND, OREGON

**BASEMENT REFLECTED**  
CEILING PLAN

**A-23**  
DRAWING NO.  
230-A-39

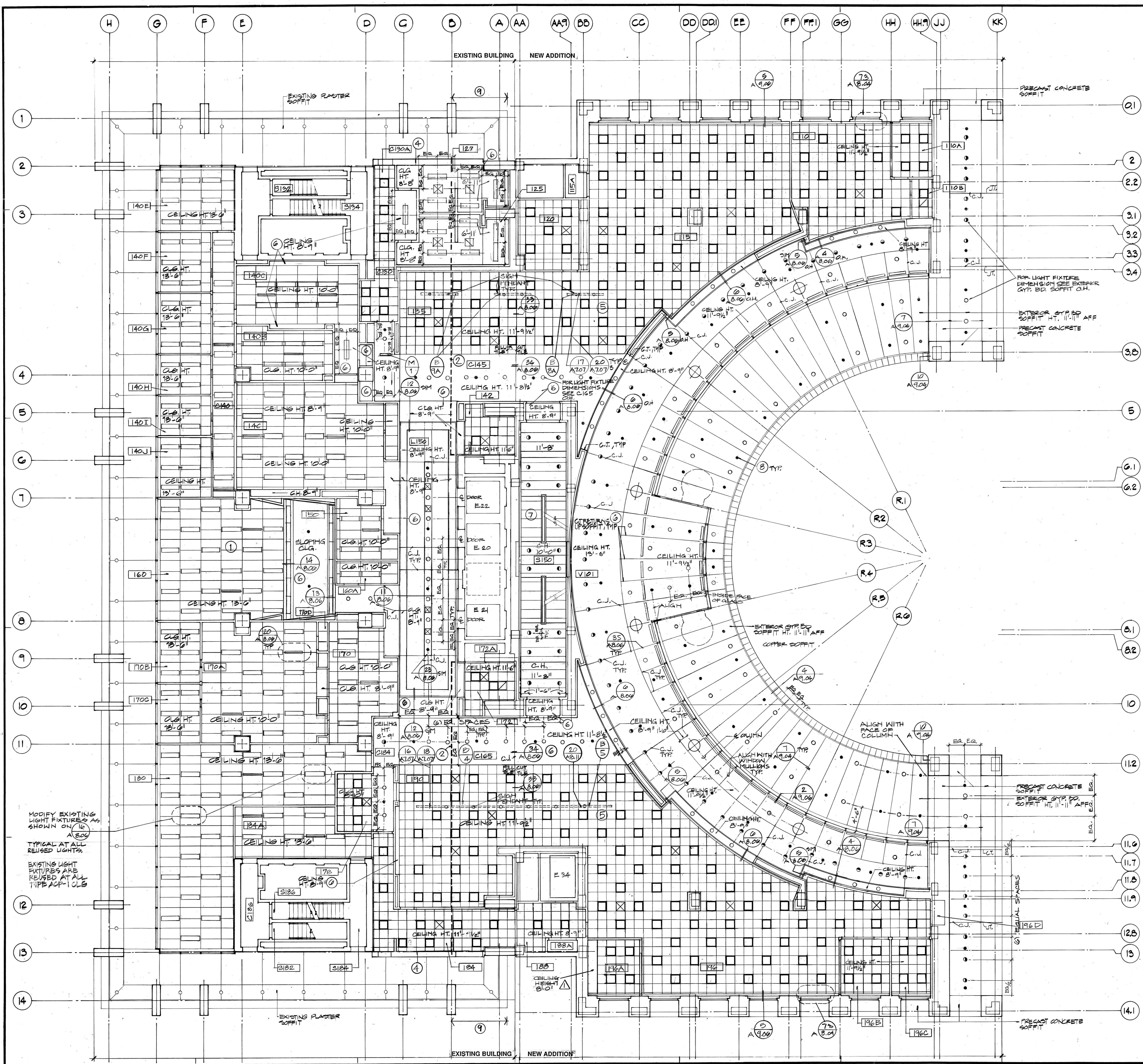












**NOTES**

- 1 All ceiling materials at first floor are new. Existing ceiling materials removed from this floor can be reused at other floors where ACP-1E is scheduled. Where ACP-1E is scheduled, layout of grid and size of acoustical panels is the same as existing material ACP-1E replaced. Existing grid can be reused in place where possible. See floor plans for locations where new partitions are required to extend full height to structure and require modification of existing grid.
- 2 Line of existing window wall to be removed.
- 3 Overall core plan dimensions are based on relationship to centerline of building with layout of 2' x 2' ACP-2 ceiling grid. Adjust face of partitions as necessary or cut full 2' x 2' ACP to achieve ceiling grid layout intersection at partition corners as detailed without introduction of thin piece of ACPs at partition faces.
- 4 Remove existing plaster soffit and replace as required for new construction.
- 5 ACP-2 ceiling.
- 6 Veneer plaster (VP) ceiling.
- 7 Perforated metal panels (PMP).
- 8 Sprinkler system heads are only shown at VP ceilings as preferred locations for aesthetic reasons. Contractor responsible for total layout of heads to comply with code requirements. See Section FIRE PROTECTION.
- 9 Remove existing exterior plaster soffit at east side of building between column lines 2 and 13 as required for construction of new addition.
- 10 See ROOM MATERIAL SCHEDULE for ceiling heights not shown, or verify with Architect.

**MILLAR LIBRARY ADDITION**

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Approved for the Owner by \_\_\_\_\_

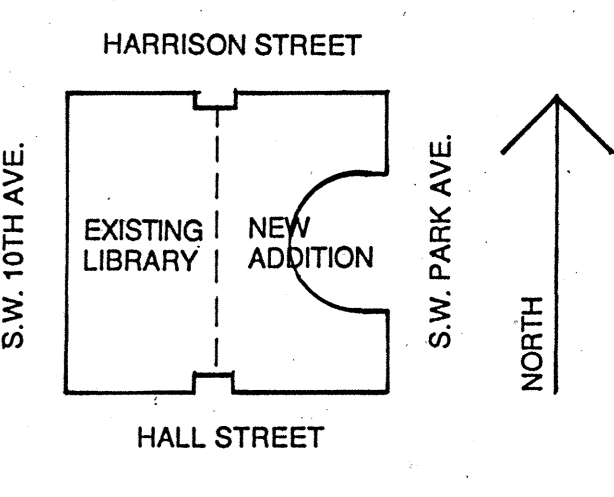
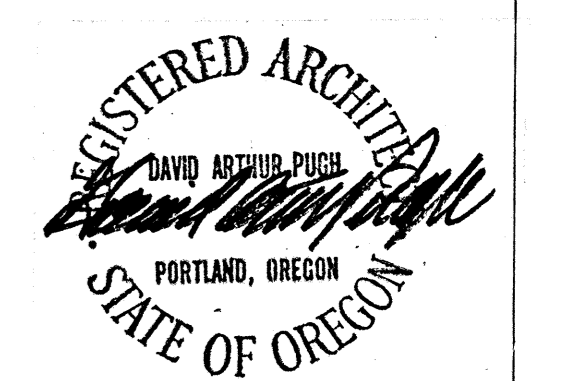
Approved for the Architect by \_\_\_\_\_

Drawn by PR Job Number 16403.100

Checked by RE Date 2 SEP 1988

**Revisions**

No.	Revisions Indicated thus: Δ	Date
1	ISSUED FOR BUILDING PERMIT	9-6-88
2	ISSUED FOR CONSTRUCTION	11-8-88
3	REISSUED FOR CONSTRUCTION	3 APR 89
4	Construction Change Directive No. 7	22 SEP 89



**FIRST FLOOR REFLECTED CEILING PLAN**

1/8" = 1'-0"

A6.02

# MILLAR LIBRARY ADDITION

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Approved for the Owner by

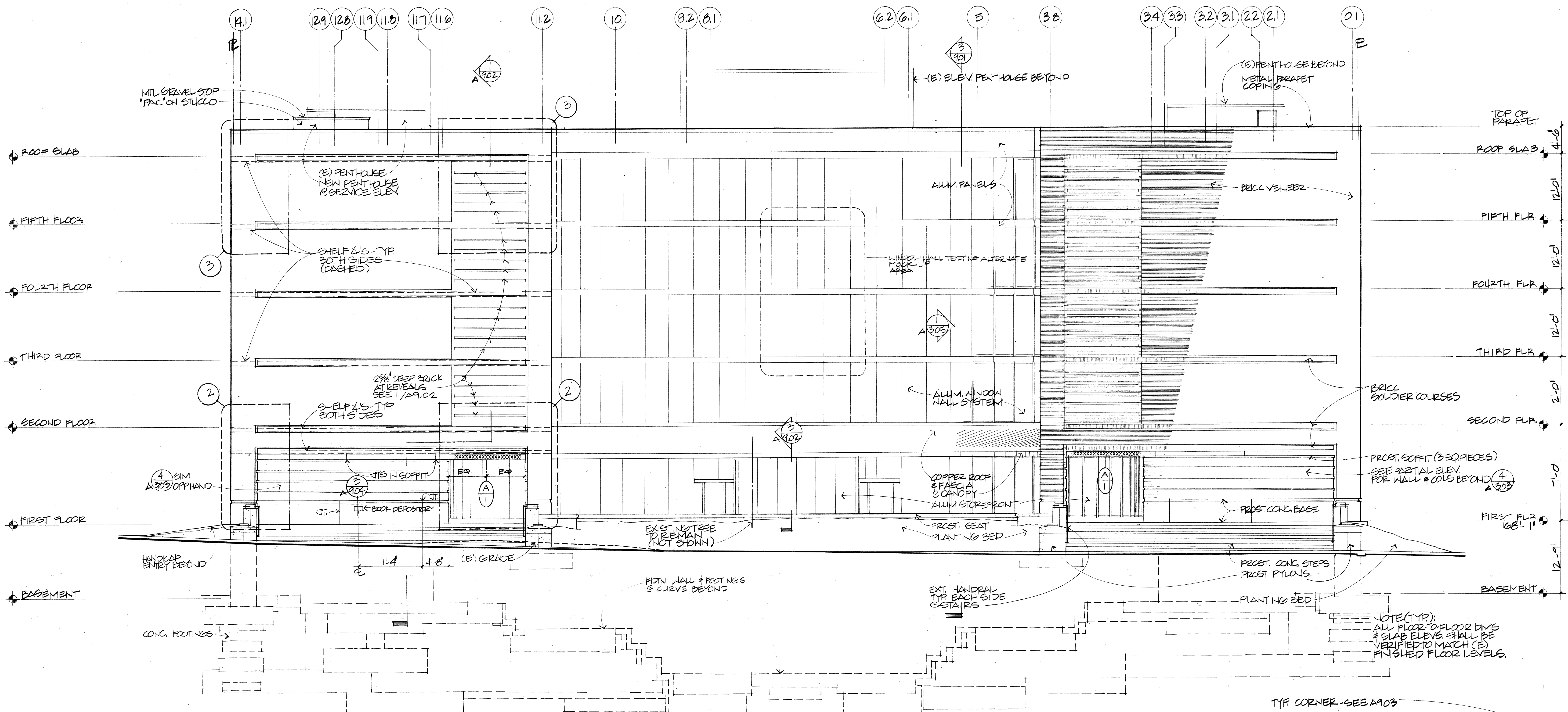
Approved for the Architect by

Drawn by MMT Job Number 16403.100

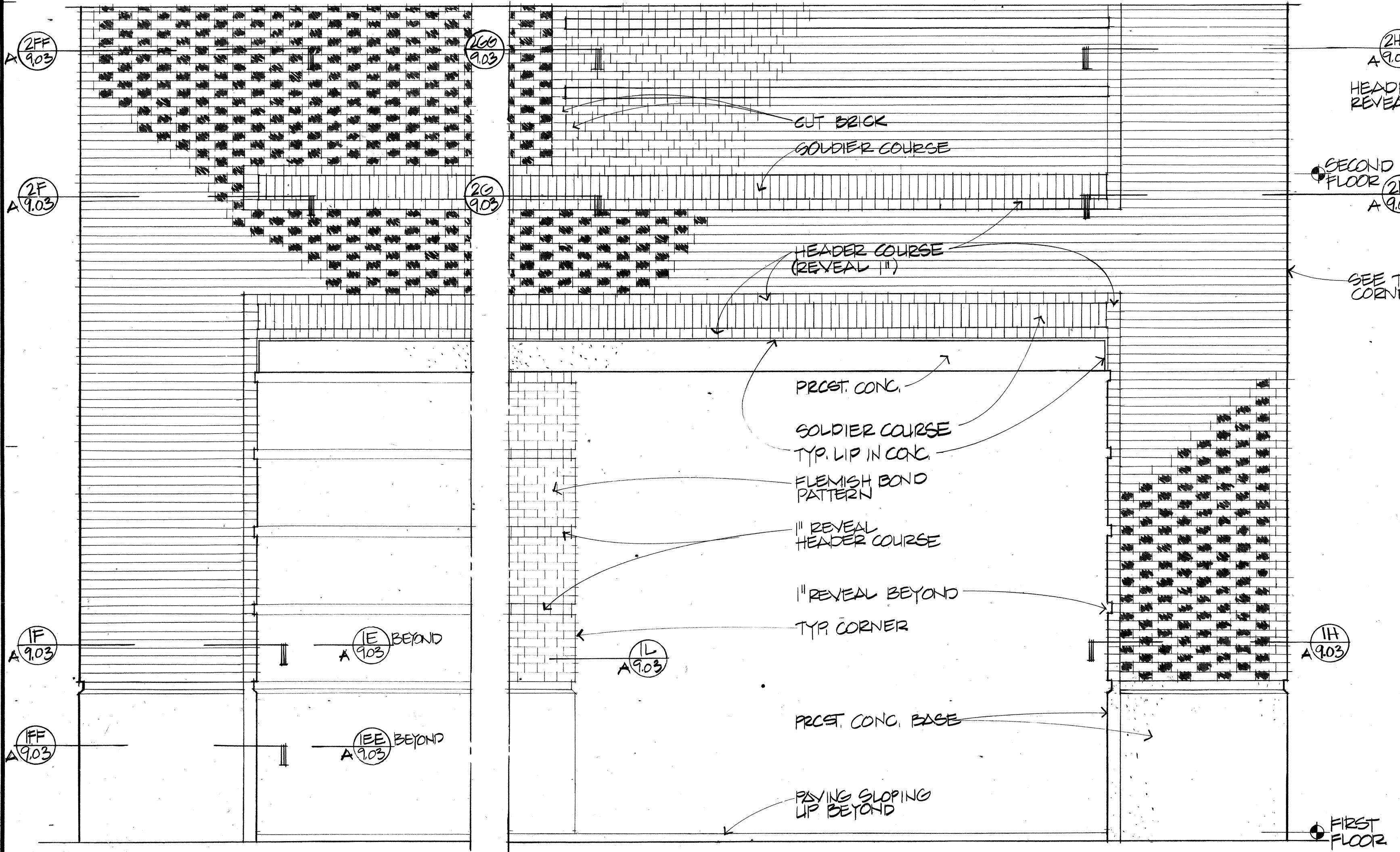
Checked by BZ, SW, RE Date 2 SEP 1988

Revisions

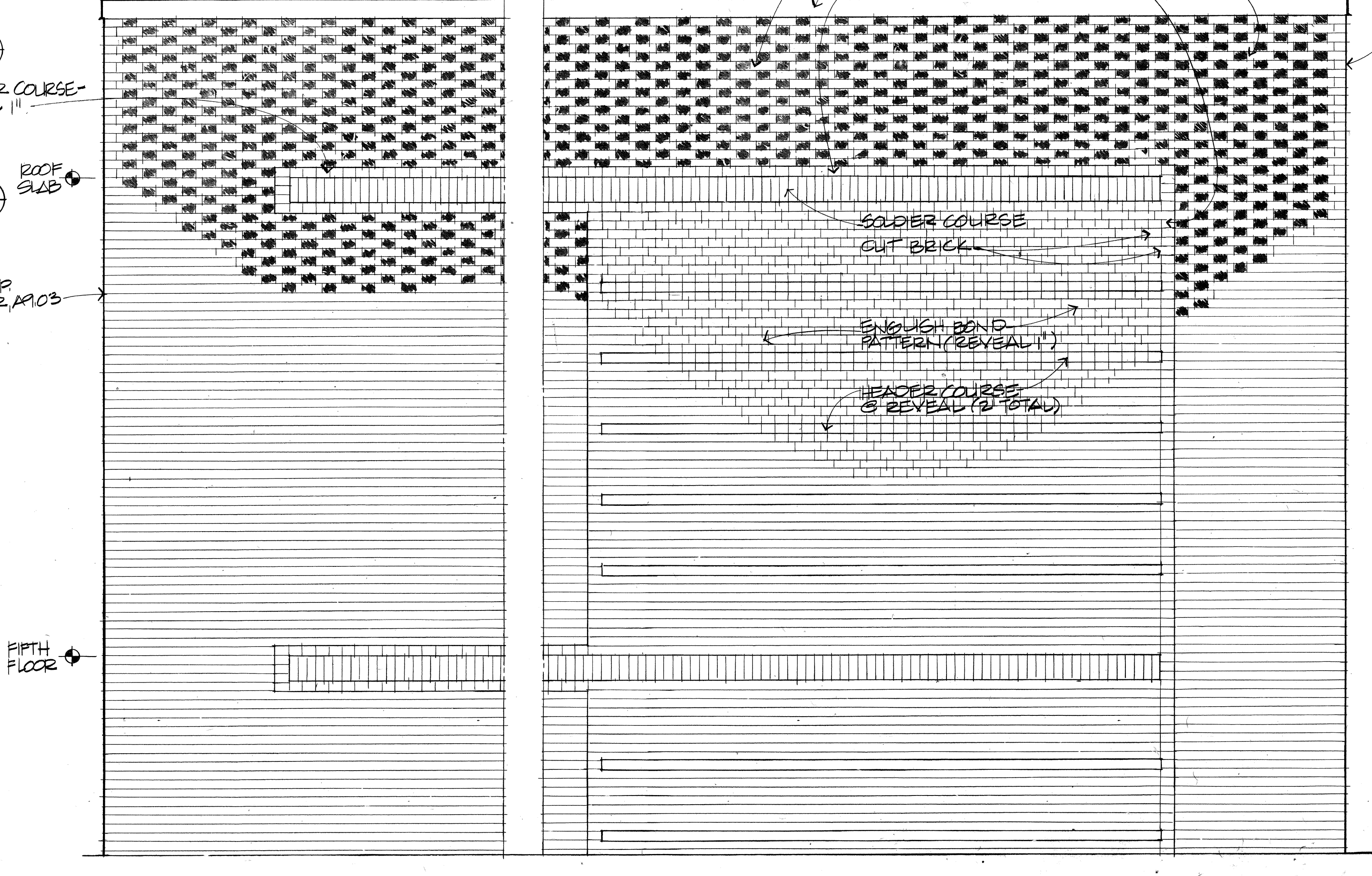
No.	Revisions Indicated thus Δ:	Date
1	ISSUED FOR BUILDING PERMIT	9-6-88
2	ISSUED FOR CONSTRUCTION	11-8-88
3	REISSUED FOR CONSTRUCTION	3 APR 89



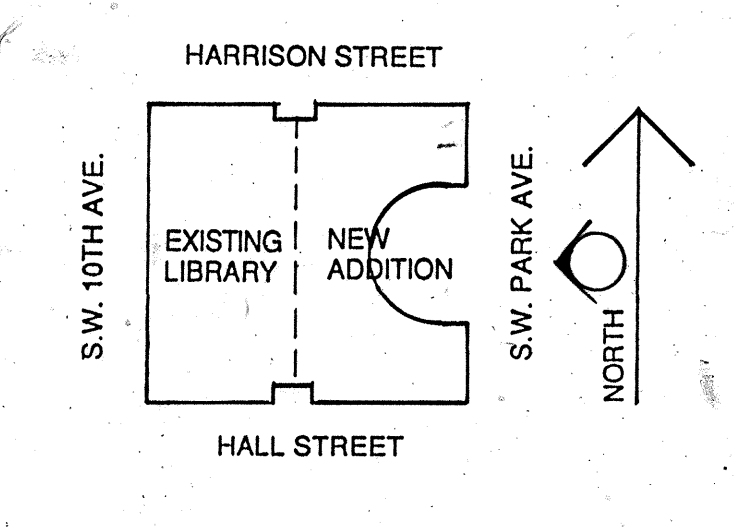
① EAST ELEVATION  
1/8" = 1' - 0"



② DETAIL ELEVATION  
1/2" = 1' - 0"



③ DETAIL ELEVATION  
1/2" = 1' - 0"



## EAST ELEVATION

RECORD DOCUMENTS  
These record documents  
are complete and  
accurate  
*[Signature]*  
As Shown

A3.01

# MILLAR LIBRARY ADDITION

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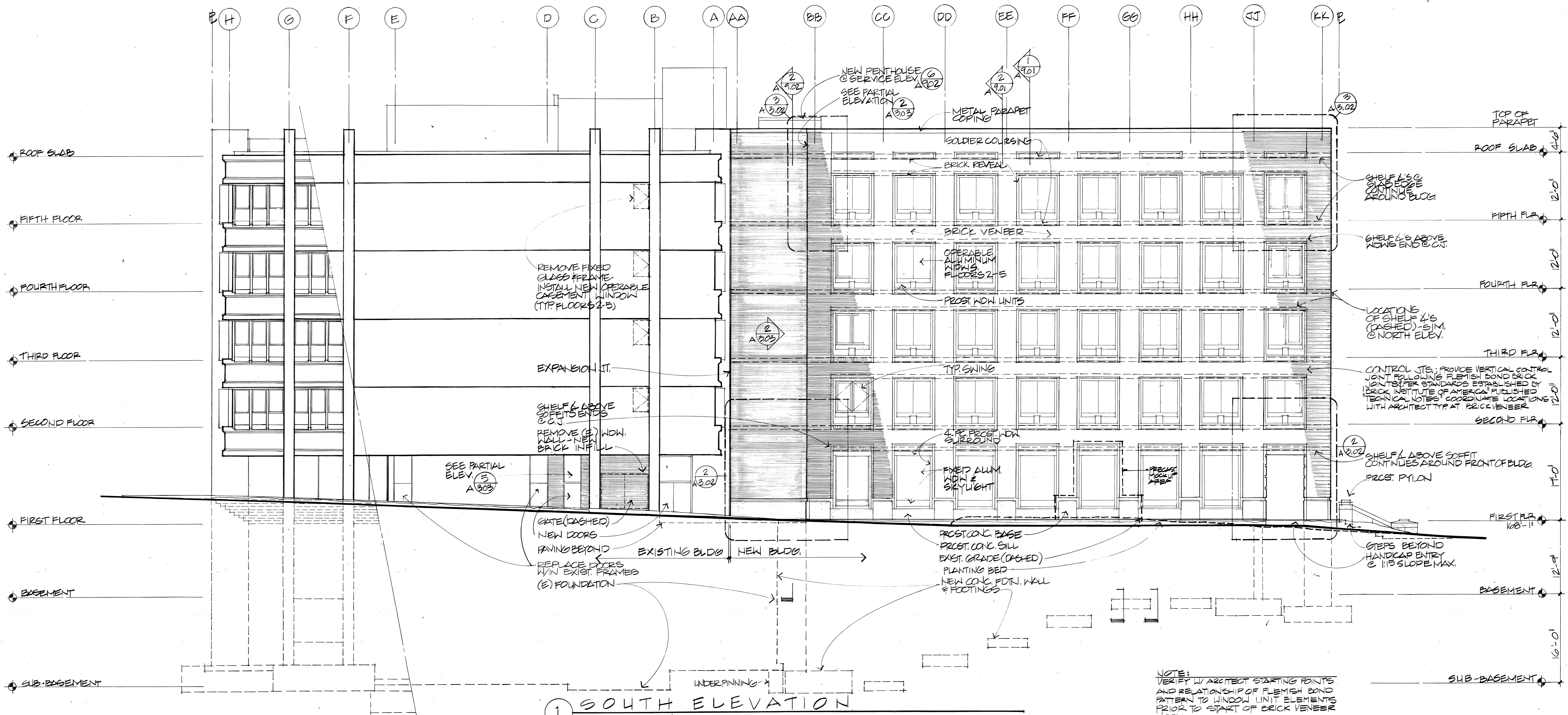
Approved for the Owner by

Approved for the Architect by

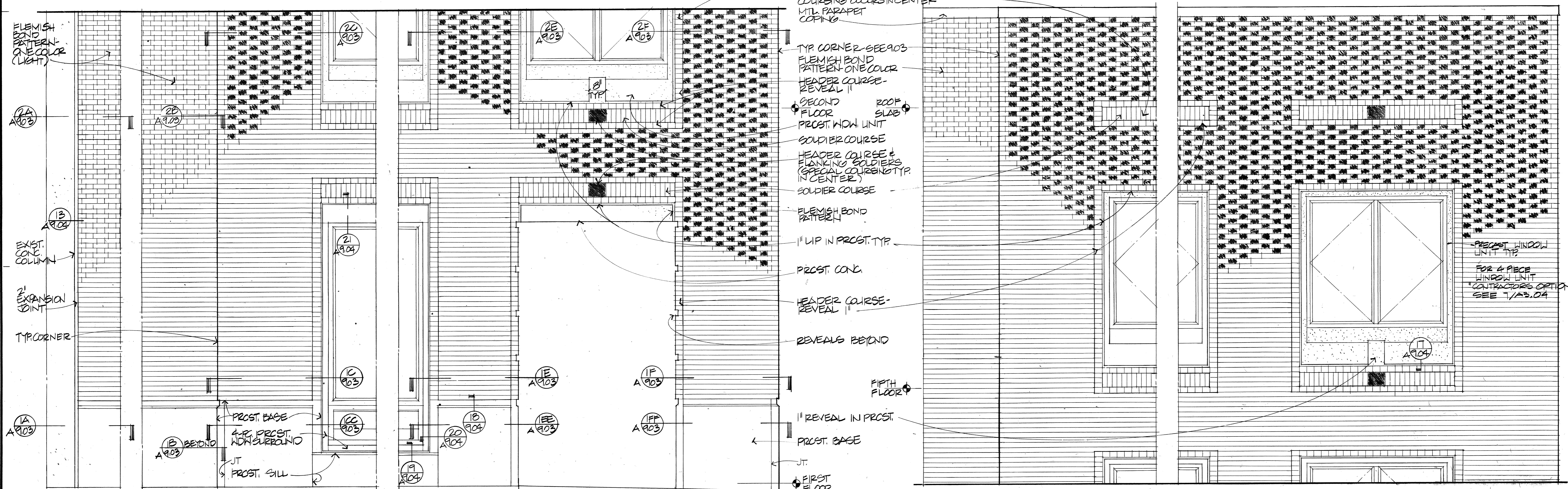
Drawn by MMT Job Number 16403.100  
Checked by EZ SWRE Date 2 SEP 1988

### Revisions

No.	Revisions Indicated thus Δ:	Date
1	ISSUED FOR BUILDING PERMIT	9-6-88
2	ISSUED FOR CONSTRUCTION	11-8-88
3	REISSUED FOR CONSTRUCTION	3 APR 89

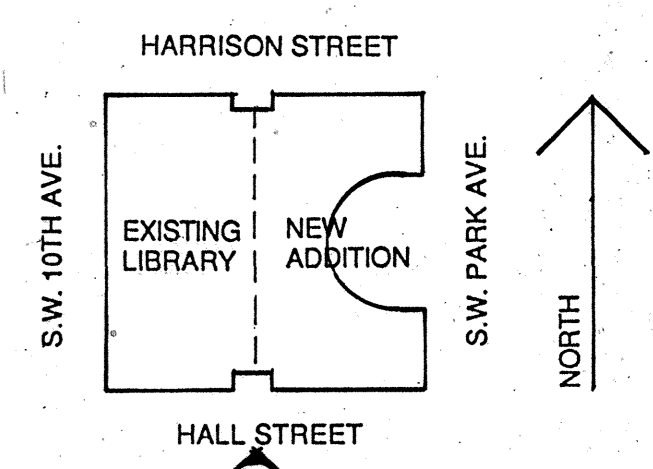
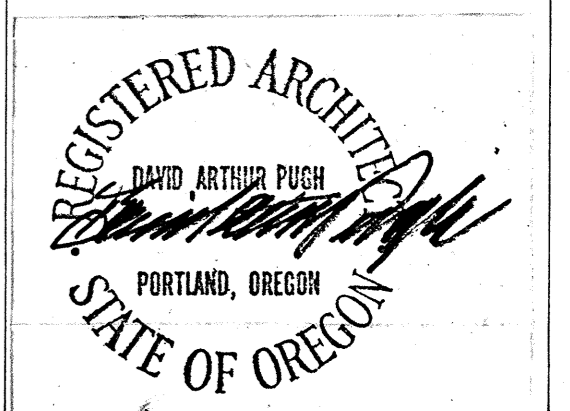


1 SOUTH ELEVATION  
1/8" = 1'-0"



2 DETAIL ELEVATION  
1/2" = 1'-0"

3 DETAIL ELEVATION  
1/2" = 1'-0"

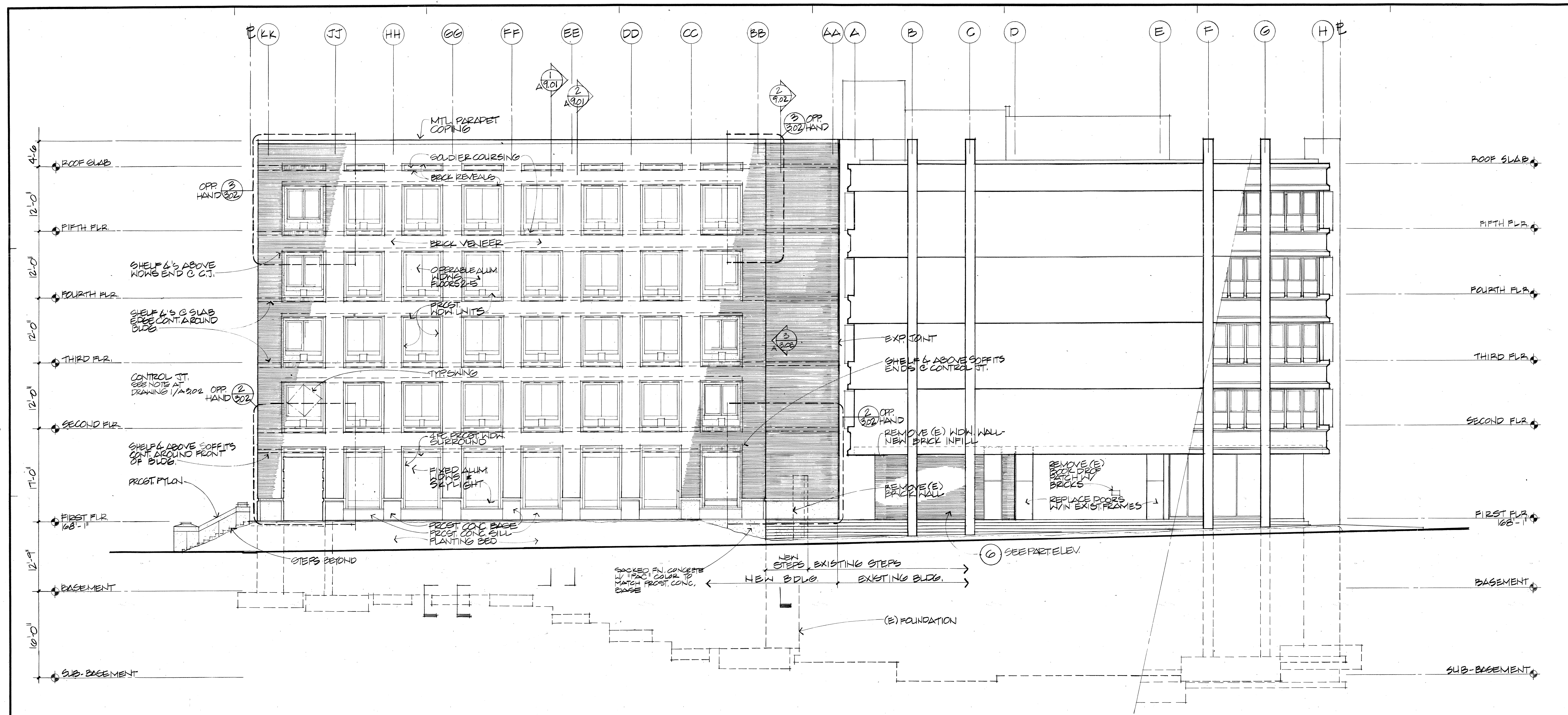


### SOUTH ELEVATION

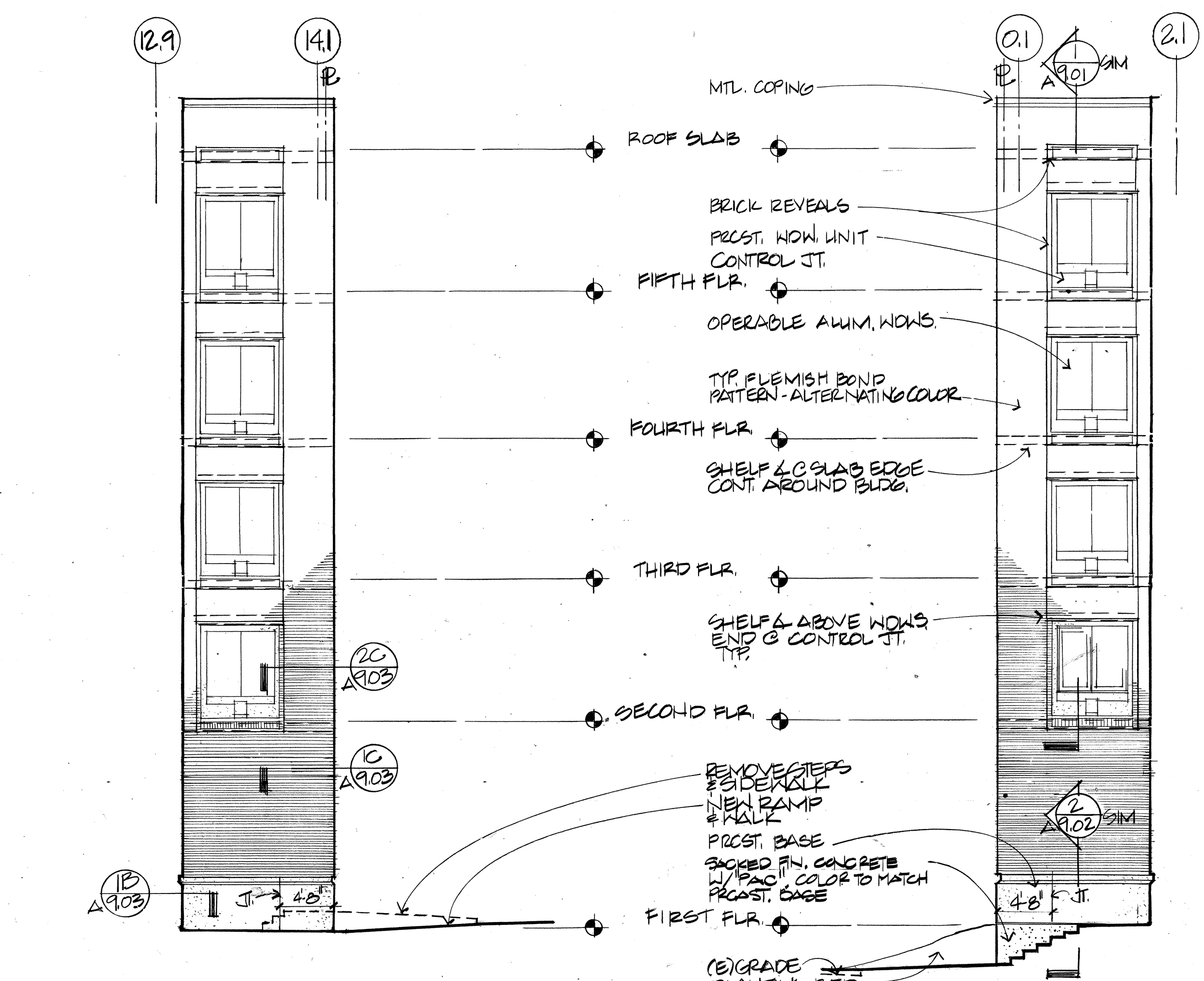
RECORD DOCUMENTS  
These record documents  
are complete and  
accurate  
*David Arthur Pugh*

As Shown

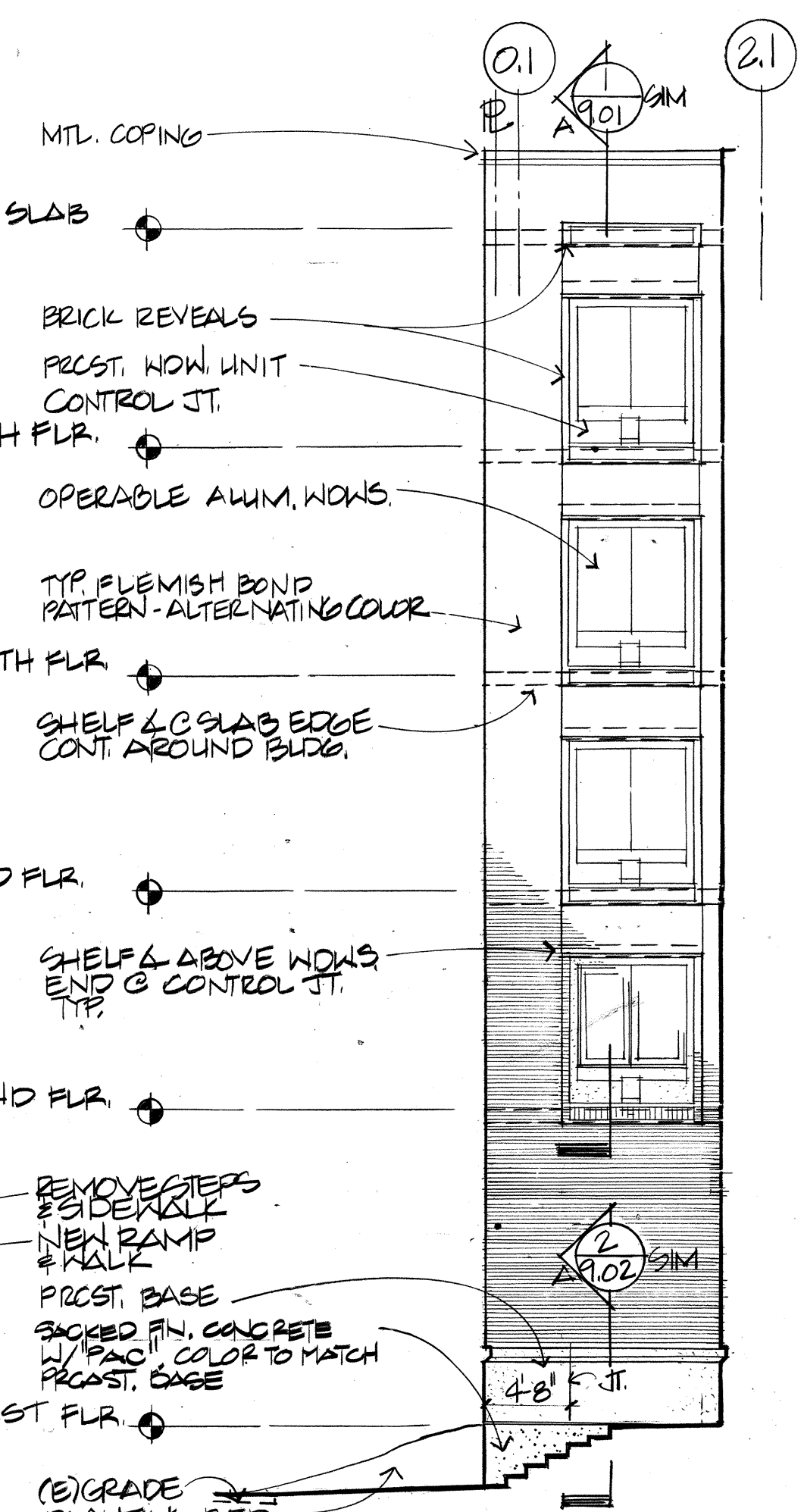
A3.02



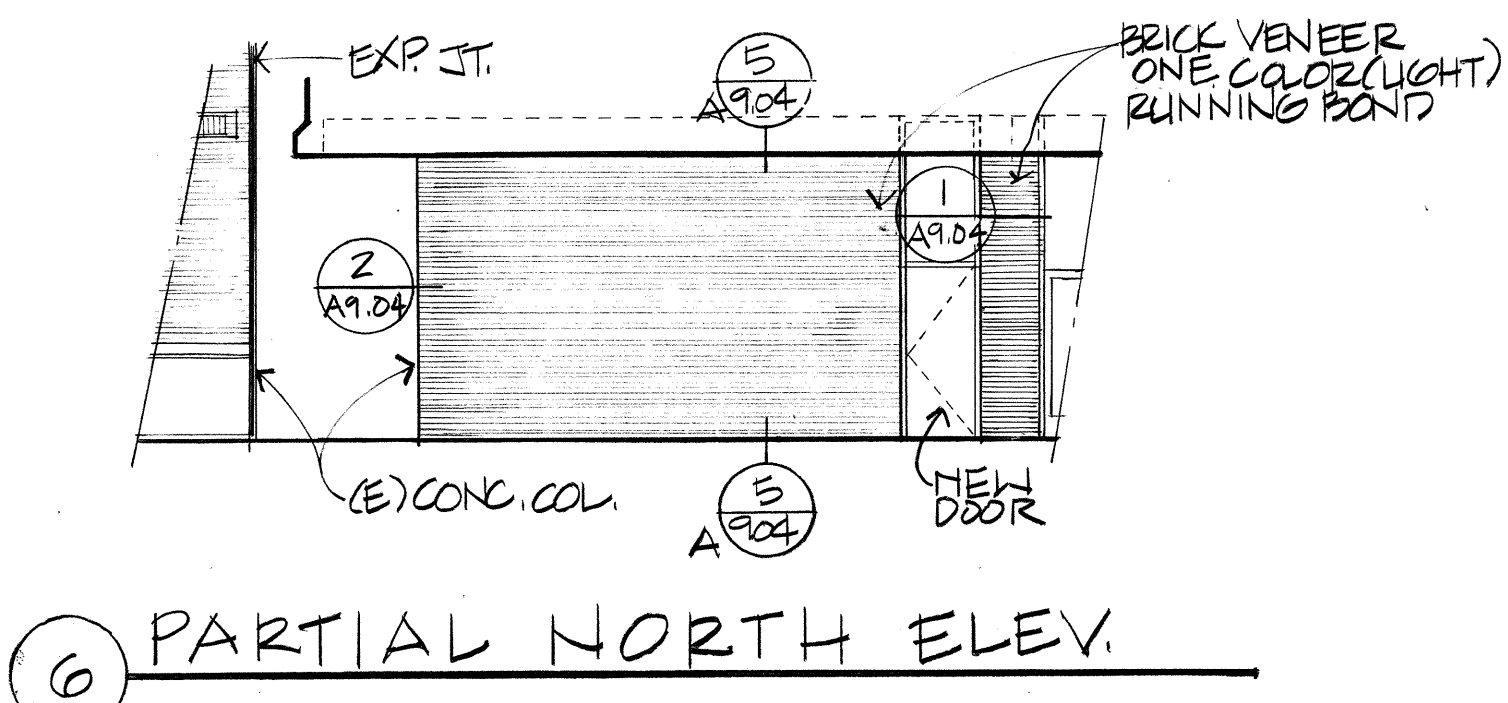
1 NORTH ELEVATION



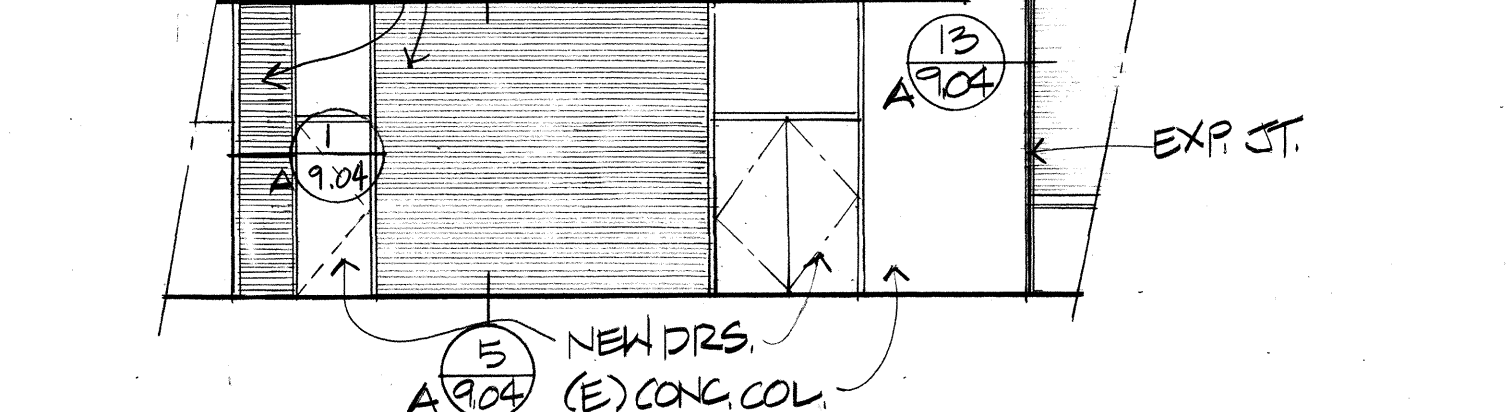
2 PARTIAL WEST ELEV. 1/8" = 1'-0"



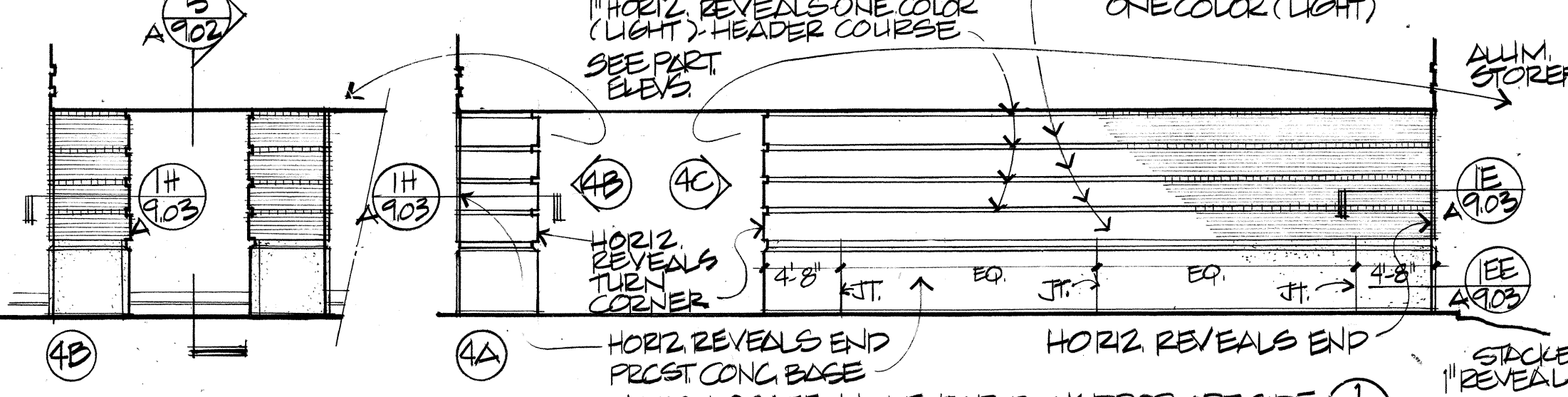
3 PARTIAL WEST ELEV. 1/8" = 1'-0"



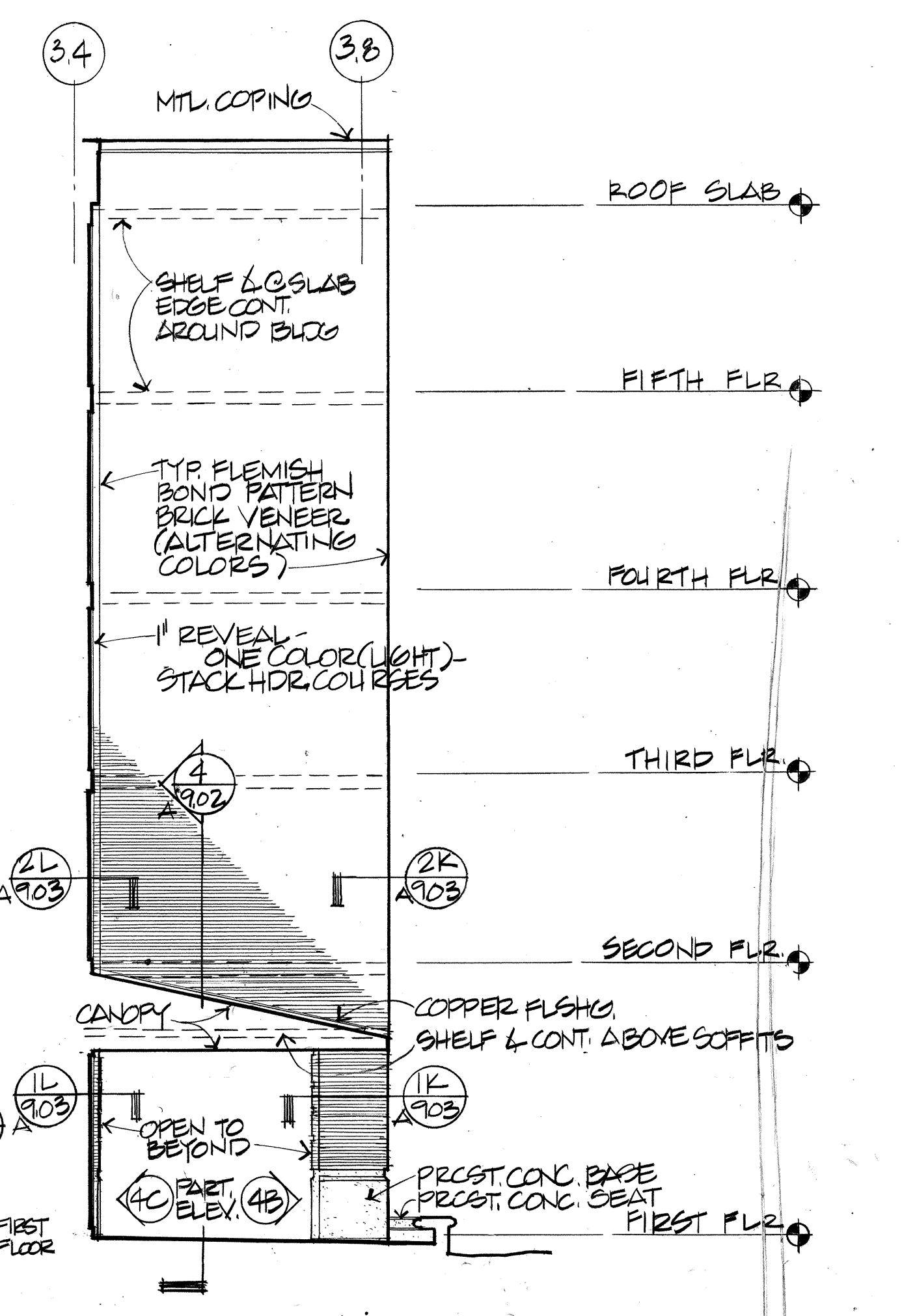
6 PARTIAL NORTH ELEV.



5 PARTIAL SOUTH ELEV.



4 PARTIAL EAST ELEV. 1/8" = 1'-0"



7 PARTIAL WEST ELEV. 1/8" = 1'-0"

**MILLAR LIBRARY ADDITION**

PORTLAND STATE UNIVERSITY

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Approved for the Owner by \_\_\_\_\_

Approved for the Architect by \_\_\_\_\_

Drawn by **MMT** Job Number **16403.100**

Checked by **EZ SW, RE** Date **2 SEP 1988**

No.	Revisions Indicated thus: Δ	Date
1	ISSUED FOR BUILDING PERMIT	9-6-88
2	ISSUED FOR CONSTRUCTION	11-8-88
3	REISSUED FOR CONSTRUCTION	3 APR 89

REGISTERED ARCHITECT  
 ANDREW RUSSELL  
 PORTLAND, OREGON  
 STATE OF OREGON

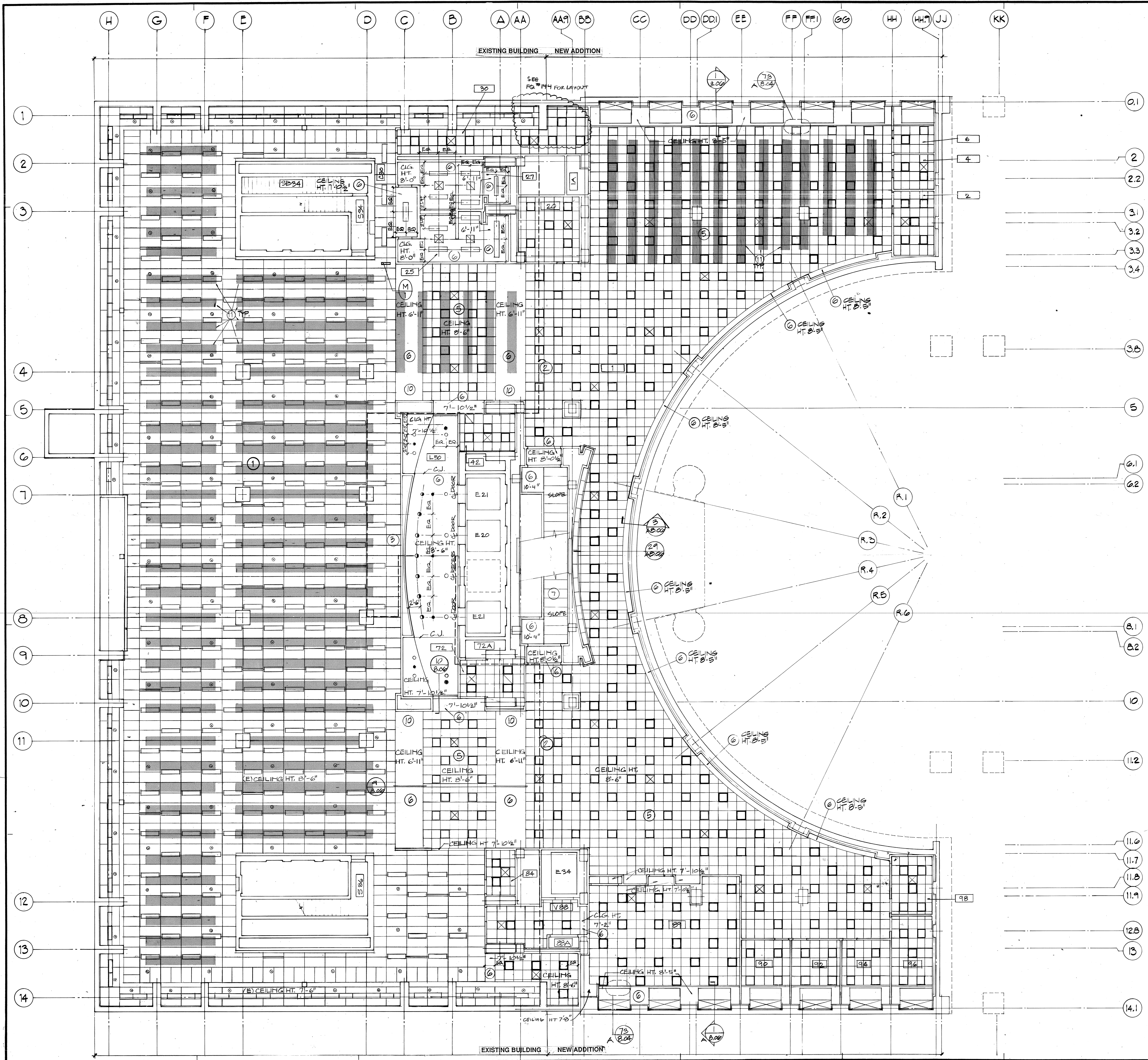
HARRISON STREET  
 S.W. 10TH AVE. EXISTING LIBRARY NEW ADDITION S.W. PARK AVE. NORTH  
 HALL STREET

**NORTH ELEVATION & PARTIAL ELEVATIONS**

RECORD DOCUMENTS  
 These record documents are complete and accurate

1/8" = 1'-0"

**A3.03**



**NOTES**

- 1 Area of existing ACP-1E to remain. Replace damaged material during renovation with ACP-1E removed from other areas and replaced with new construction. Provide transition of existing ACP-1E to new ceilings as required.
  - 2 Existing ACP-1E west of this line. Remove and replace with new ACP-2 and up ceilings as shown. Reuse removed ACP-1E where ACP-1E is shown to be extended into renovated areas.
  - 3 Extend ACP-1E into this area.
  - 4 Not used.
- 
- 5 ACP-2 ceiling.
  - 6 Veneer plaster (VP) ceiling.
  - 7 Perforated Metal Panels (PMP).
  - 8 Overall core plan dimensions are based on relationship to centerline of building with layout of 2' x 2' ACP to achieve ceiling grid layout intersection at partition corners as detailed without introduction of thin pieces of ACP at partition faces.
  - 9 See ROOM MATERIAL SCHEDULE for ceiling heights not shown, or verify with Architect.
  - 10 For typical ceiling dimensions for this area see drawing A6.03.
  - 11 Stack location shown shaded. Coordinate sprinkler head locations to accommodate 90" high stack.
- SEE FG #170 FOR RELATION OF DIFFUSERS

**REFLECTED CEILING LEGEND**

- LIGHT FIXTURE (RECESSED OR SURFACE-MOUNTED)
- AIR DIFFUSER (SUPPLY)
- AIR DIFFUSER (RETURN)
- LINEAR AIR DIFFUSER
- SPRINKLER - (NEW)
- SPRINKLER - (EXISTING)

# MILLAR LIBRARY ADDITION

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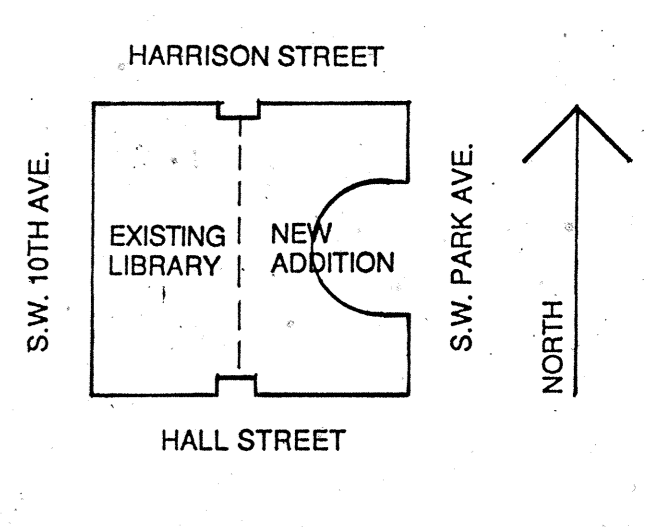
Approved for the Architect by \_\_\_\_\_

Drawn by FR Job Number 16403/100

Checked by RE Date 2 SEP 1988

**Revisions**

No.	Revisions Indicated thus Δ	Date
1	ISSUED FOR BUILDING PERMIT	9-6-88
2	ISSUED FOR CONSTRUCTION	11-8-88
3	ISSUED FOR CONSTRUCTION	3 APR 89
4	FG #82	
5	FG #80	
6	FG #12B	
7	FG #144	
8	FG #15B	
9	FG #170	



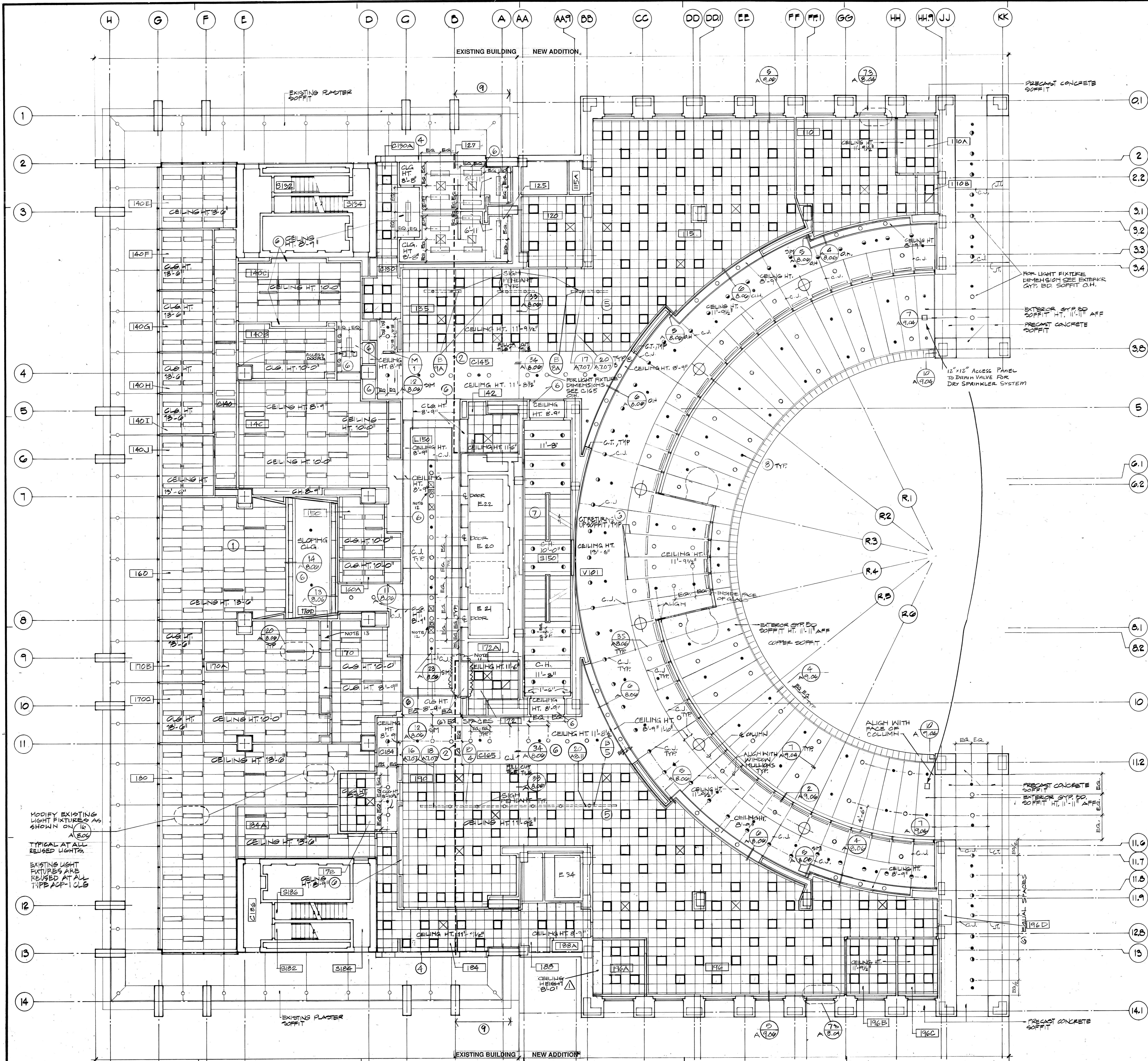
## BASEMENT REFLECTED CEILING PLAN

RECORD DOCUMENTS  
These record documents are complete and accurate.

*[Signature]*

1/8" = 1'-0"

**A6.01**



**NOTES**

- 1) All ceiling materials at first floor are new. Existing ceiling materials removed from this floor can be reused at other floors where ACP-1E is scheduled. Where ACP-1 is scheduled, layout of grid and size of acoustical panels is the same as existing material ACP-1E replaced. Existing grid can be reused in place where possible. See floor plans for locations where new partitions are required to extend full height to structure and require modification of existing grid.
- 2) Line of existing window wall to be removed.
- 3) Overall core plan dimensions are based on relationship to centerline of building with layout of 2' x 2' ACP-2 ceiling grid. Adjust face of partitions as necessary or cut full 2' x 2' ACP to achieve ceiling grid layout intersection at partition corners as detailed without introduction of thin piece of ACPs at partition faces.
- 4) Remove existing plaster soffit and replace as required for new construction.
- 5) ACP-2 ceiling.
- 6) Veneer plaster (VP) ceiling.
- 7) Perforated metal panels (PMP).
- 8) Sprinkler system heads are only shown at VP ceilings as preferred locations for aesthetic reasons. Contractor responsible for total layout of heads to comply with code requirements. See Section FIRE PROTECTION.
- 9) Remove existing exterior plaster soffit at east side of building between column lines 2 and 13 as required for construction of new addition.
- 10) See ROOM MATERIAL SCHEDULE for ceiling heights not shown, or verify with Architect.
- 11) PROVIDE 24" x 24" ACCESS PANEL IN WALL ABOVE DOOR #184
- 12) PROVIDE DETECTORS TO MATCH EXISTING. EXTEND WIRING & CONNECT AS REQ'D TO NEAREST DETECTOR & ASSOCIATED ZONE ON FIRST FLOOR.
- 13) TYPE C1 LIGHTING FIXTURE

**MILLAR LIBRARY ADDITION**

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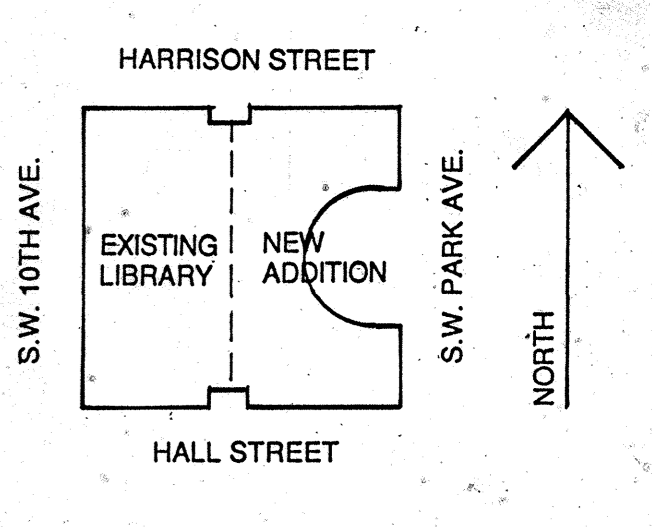
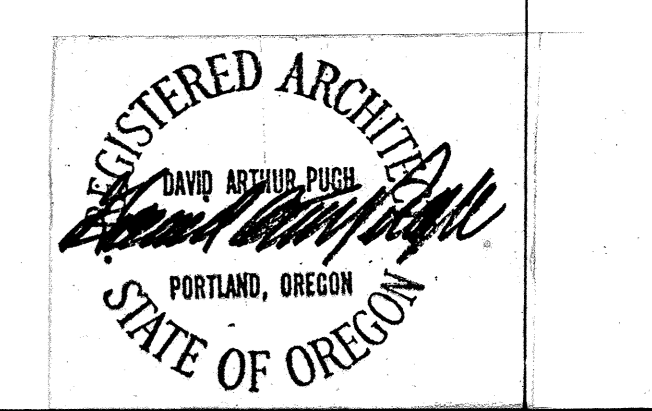
Approved for the Owner by

Approved for the Architect by

Drawn by PK Job Number 16403.100  
 Checked by RE Date 2 SEP 1988

**Revisions**

No.	Revisions Indicated thus Δ:	Date
1	ISSUED FOR BUILDING PERMIT	9-6-88
2	ISSUED FOR CONSTRUCTION	11-8-88
3	REISSUED FOR CONSTRUCTION	3 APR 89
4	Construction Change Directive No. 7	22 Sep 89
5	CGD # 7/2	
6	FG # 215	
7	FG # 216	
8	FG # 221	
9	FG # 223	
10	FG # 237	
11	FG # 239	



- REFLECTED CEILING LEGEND**
- LIGHT FIXTURE (RECESSED OR SURFACE-MOUNTED)
  - ⊗ AIR DIFFUSER (SUPPLY)
  - ⊘ AIR DIFFUSER (RETURN)
  - LINEAR AIR DIFFUSER
  - SPRINKLER - (NEW)

**FIRST FLOOR REFLECTED CEILING PLAN**

RECORD DOCUMENTS  
 These record documents are complete and accurate  
*J. Markes*  
 1/8" = 1'-0"