

UNIVERSITY OF OREGON HOUSING

RILEY RESIDENCE HALL

FIRE PROTECTION

EUGENE, OREGON

Construction Documents

MAY, 2014



OWNER

REPRESENTATIVE:
UNIVERSITY of
OREGON

Campus Planning, Design &
Construction
1276 University of Oregon
Eugene, Oregon 97403-1220
Contact: George Bleekman
Construction Project Manager
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Civil Engineer
tlg@capitalengineering.co

STRUCTURAL:
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ENGINEERS

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Principal Architect
TraceW@glas-arch.com

**MECHANICAL &
ELECTRICAL:**
SYSTEMS WEST
ENGINEERS

411 High Street
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f. 541.342.7220
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pfooks@systemswestengineers.com

HOUSING'S REPRESENTATIVE:
UNIVERSITY of OREGON
HOUSING

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Contact: David Opp-Beckman
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dbeckman@uoregon.edu



FIRE PROTECTION

RILEY RESIDENCE
HALL

SHEET INDEX

1	G-001	TITLE SHEET: CONTACTS, VICINITY MAP & SHEET INDEX
2	G-002	SITE WORK PLAN
3	C-001	SITE FIRE PROTECTION WATER BFP RETROFIT PLAN
4	S-100	STRUCTURAL NOTES AND DETAILS
5	A-120	FLOOR PLAN - BASEMENT, DETAILS
6	A-121	FLOOR PLAN & REFLECTED CEILING PLAN - FIRST FLOOR
7	A-122	FLOOR PLAN & REFLECTED CEILING PLAN - SECOND FLOOR
8	A-123	FLOOR PLAN & REFLECTED CEILING PLAN - THIRD FLOOR, PARTIAL ROOF PLAN
9	M-001	LEGEND, SCHEDULES & SITE PLAN
10	M-140	FIRE PROTECTION PLANS - BASEMENT
11	M-141	FIRE PROTECTION PLANS - FIRST FLOOR
12	M-142	FIRE PROTECTION PLAN - SECOND FLOOR
13	M-143	FIRE PROTECTION PLANS - THIRD FLOOR & PARTIAL ROOF
14	M-541	DETAILS & SECTION
15	E-001	LEGEND, SCHEDULES, GENERAL NOTES & SITE PLAN
16	E-101	LIGHTING AND POWER DEMOLITION AND NEW BASEMENT
17	E-102	LIGHTING AND POWER DEMOLITION PLAN - FIRST FLOOR
18	E-103	LIGHTING DEMOLITION PLAN - PARTIAL SECOND AND THIRD FLOORS
19	E-112	LIGHTING AND POWER PLAN - FIRST FLOOR
20	E-113	LIGHTING AND POWER PLAN - PARTIAL SECOND AND THIRD FLOORS
ORIGINAL STRUCTURAL DRAWINGS - FOR REFERENCE ONLY		
21	S4	GROUND FLOOR FRAMING PLAN
22	S5	SECOND FLOOR FRAMING PLAN
23	S6	THIRD FLOOR FRAMING PLAN
24	S7	ROOF FRAMING PLAN

CODE ANALYSIS

2010 OREGON STRUCTURAL SPECIALTY CODE

OCCUPANCY GROUP: R-2
CONSTRUCTION TYPE: I-B (ASSUMED EXISTING)

DEFERRED SUBMITTAL

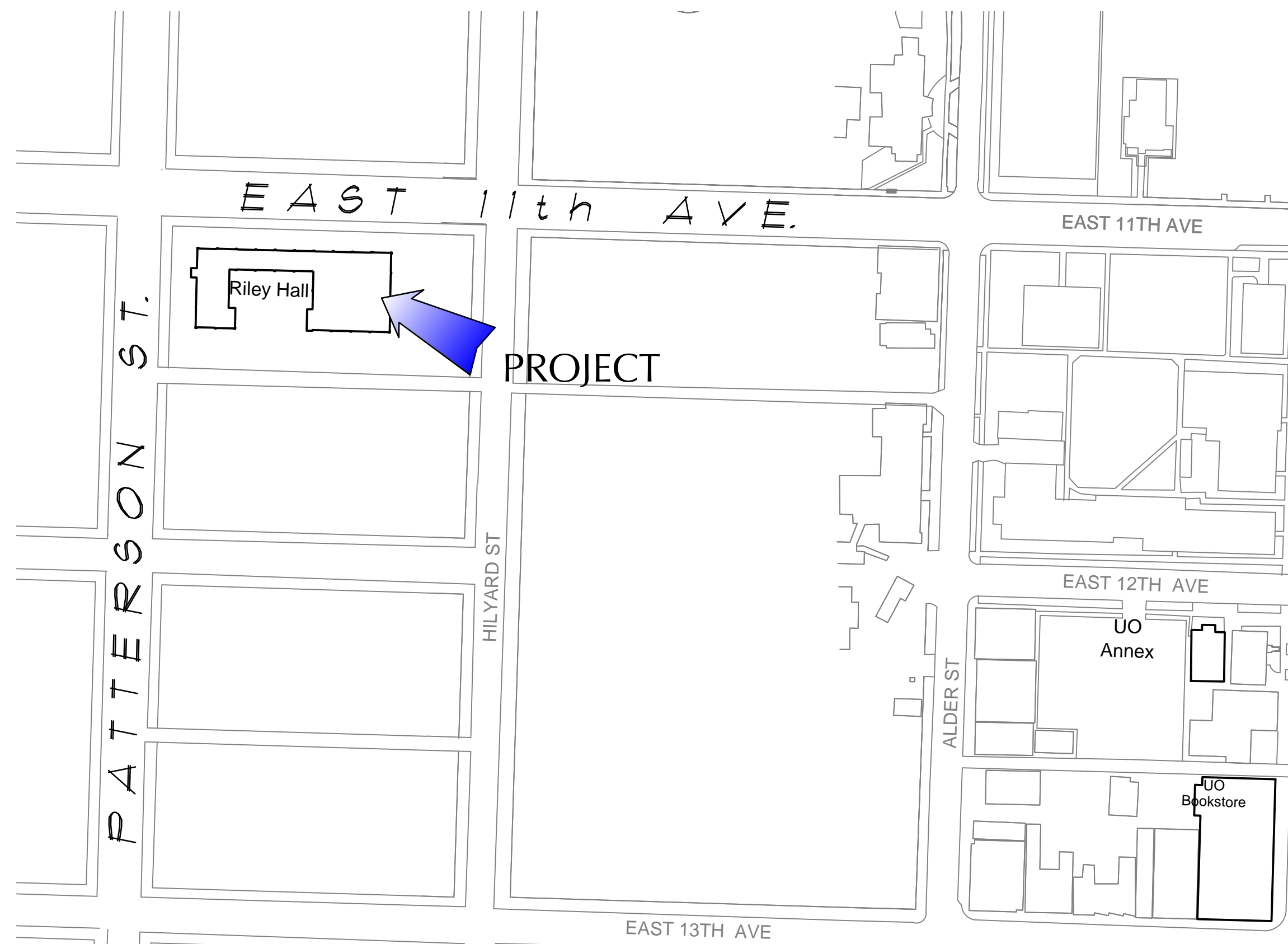
THE FOLLOWING WILL BE SUBMITTED TO THE CITY AS DEFERRED SUBMITTALS. THE SUBCONTRACTOR RESPONSIBLE FOR THE WORK WILL PREPARE THE SUBMITTAL AND SUBMIT TO THE ENGINEER AND THE CITY PRIOR TO BEGINNING THE WORK ON SITE:

- AUTOMATIC FIRE SPRINKLERS: COMPLETE SYSTEM DESIGN DRAWINGS, INCLUDING PIPE SIZING CALCULATIONS, VALVES, DRAINS, HEAD LOCATIONS, AND SEISMIC RESTRAINTS. DESIGN IN CONFORMANCE WITH NFPA 13, AND FM GLOBAL REQUIREMENTS.

LOCATION:
650 East 11th Avenue
Eugene, OR 97401

OWNER:
University of Oregon
Housing

TITLE SHEET:
CONTACTS,
VICINITY MAP &
SHEET INDEX



VICINITY MAP

MARK DATE DESCRIPTION

DESIGNED PEK/S6S

DRAWN KMG

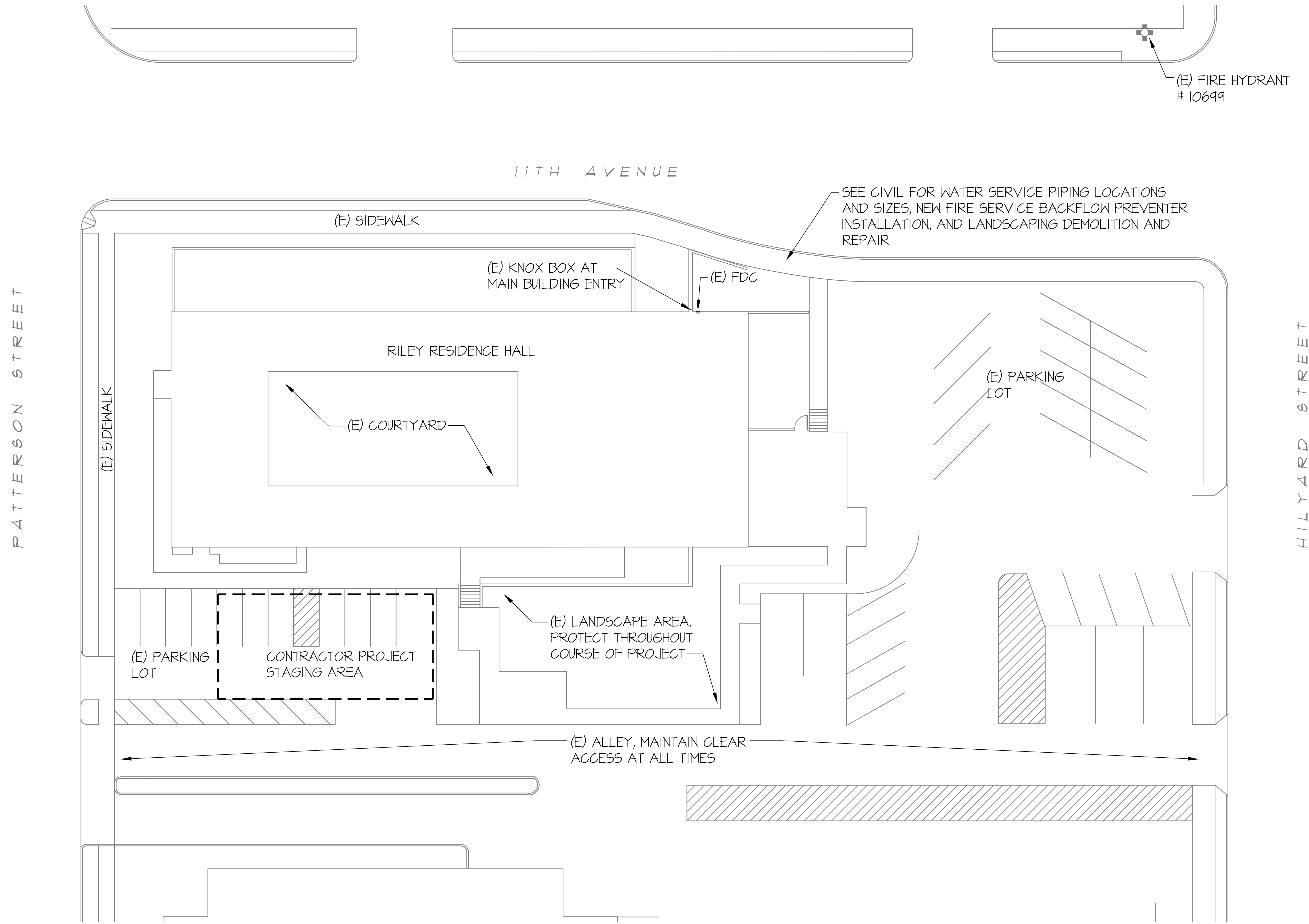
CHECKED GNL

FILENAME
G-001

DATE 09MAY2014

PROJECT PO10.01

G-001



FIRE PROTECTION

RILEY RESIDENCE HALL

LOCATION:
650 East 11th Avenue
Eugene, OR 97401

OWNER:
University of Oregon
Housing

SITE WORK PLAN

MARK	DATE	DESCRIPTION
■		

DESIGNED PEF

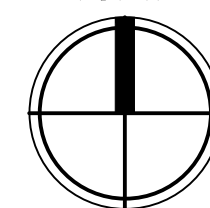
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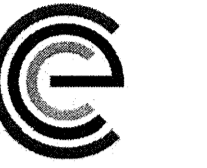
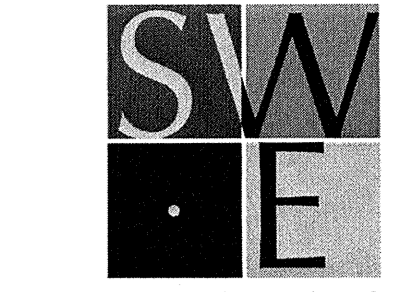
CHECKED GNL
FILENAME
G-002_SP

DATE 09MAY2014

PROJECT PO10.01

G-002

NORTH

1 WORK SITE PLAN
 SCALE: 1/16" = 1'-0"



FIRE PROTECTION

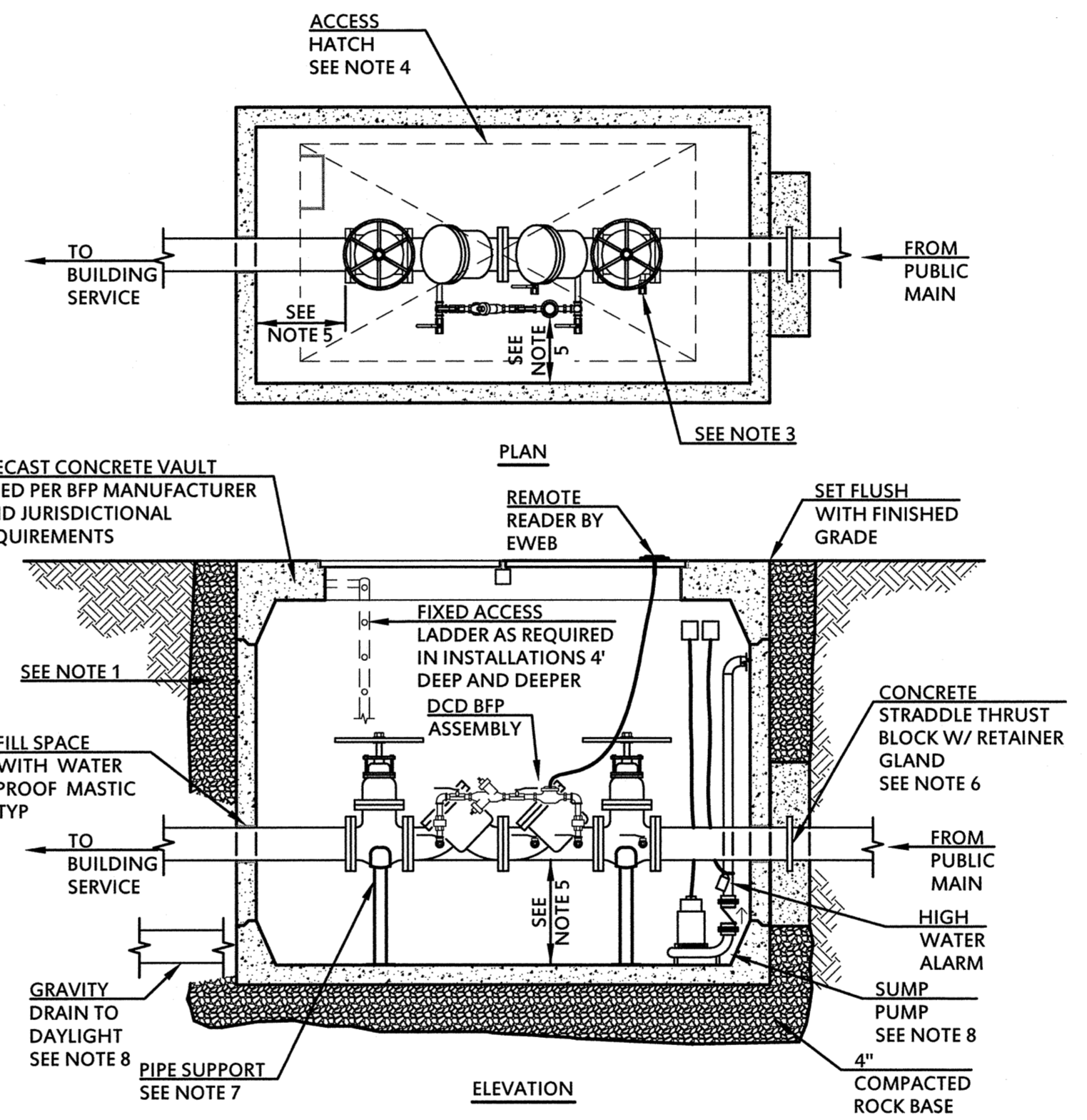
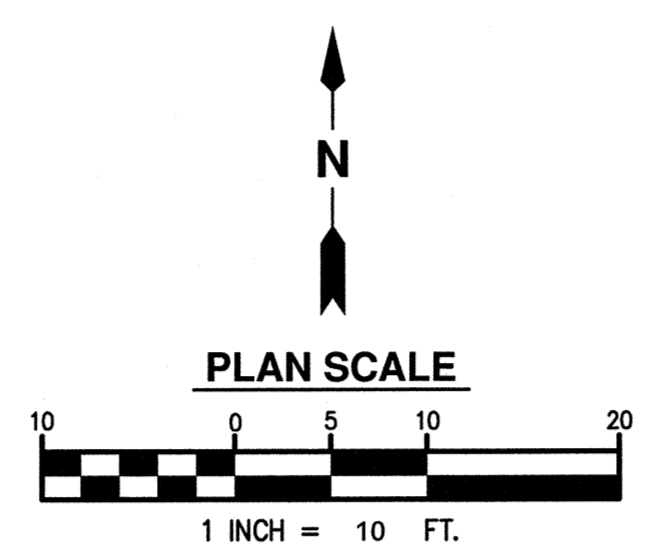
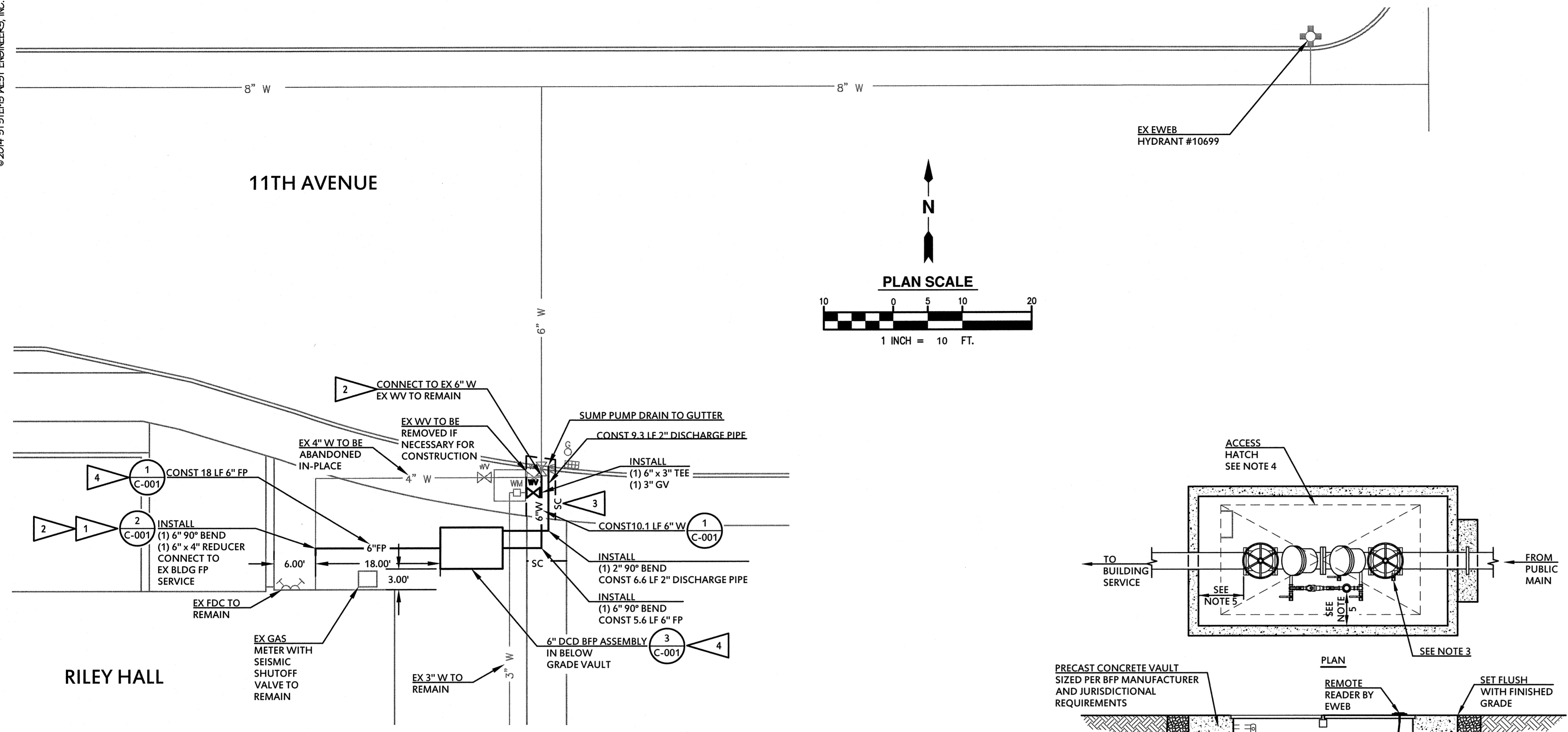
RILEY RESIDENCE HALL

LOCATION:
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Eugene, OR 97401
OWNER:
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Housing

SITE FIRE PROTECTION WATER BFP RETROFIT PLAN

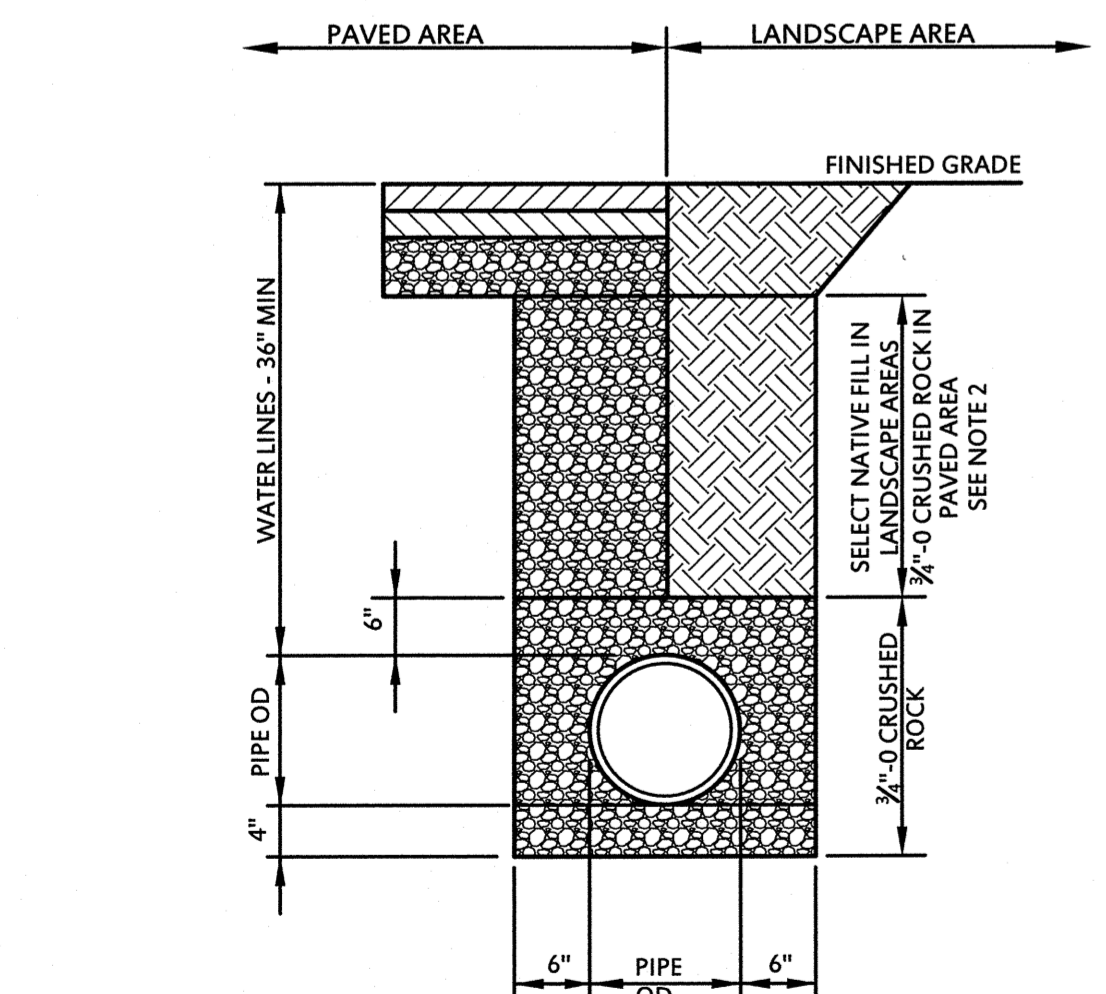
MARK	DATE	DESCRIPTION
DESIGNED	SBF	
DRAWN	SBF	
CHECKED	TLG	
FILENAME	C10	
DATE	09MAY2014	
PROJECT	PO10.01	

C-001



FLOW TEST INFORMATION

A. DATE OF HYDRAULIC MODEL TEST: MARCH 26, 2014
 B. TEST LOCATION: NW CORNER OF 11TH AND HILYARD
 C. STATIC/RESIDUAL PRESSURE AND FLOW: 76.6/74.8 PSI @ 2046 GPM
 D. CALCULATED FLOW AT 20 PSI: >10,000 GPM



- NOTES**
- WATER LINES THAT ARE NOT HORIZONTALLY SEPARATED FROM SANITARY SEWER LINES BY 10' MINIMUM SHALL BE LOCATED A MINIMUM OF 12" ABOVE SEWER LINES.
 - WITHIN 5' OF A BUILDING STRUCTURE, BUILDING CODE APPROVED PIPE MATERIAL AND 3/4" CRUSHED ROCK BACKFILL SHALL BE USED.
 - MATCH EXISTING PAVEMENT AND/OR LANDSCAPING IN AREAS WHICH DO NOT RECEIVE NEW IMPROVEMENTS.

BEARING AREA OF THRUST BLOCKS IN SQ. FT.

FITTING SIZE	TEE, WYE AND HYDRANT			STRADDLE 90° BEND PLUGGED			CROSS TEE PLUGGED ON RUN			45° BEND			22 1/2° BEND			11 1/4° BEND			
	4"	6"	8"	10"	12"	16"	20"	24"	4"	6"	8"	10"	12"	16"	20"	24"	4"	6"	8"
4"	1.3	1.6	1.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
6"	2.8	3.7	4.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
8"	5.0	6.5	7.1	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
10"	7.9	10.2	11.1	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
12"	11.3	14.7	16.0	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
16"	20.1	26.1	28.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
20"	31.4	40.8	44.4	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
24"	45.2	58.8	64.0	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6

VALUES BASED ON 200 PSI WATER PRESSURE AND 2,000 PSF SOIL BEARING CAPACITY

TABLE 1 - HORIZONTAL BLOCKING

THRUST BLOCK VOLUMES (CU YDS)

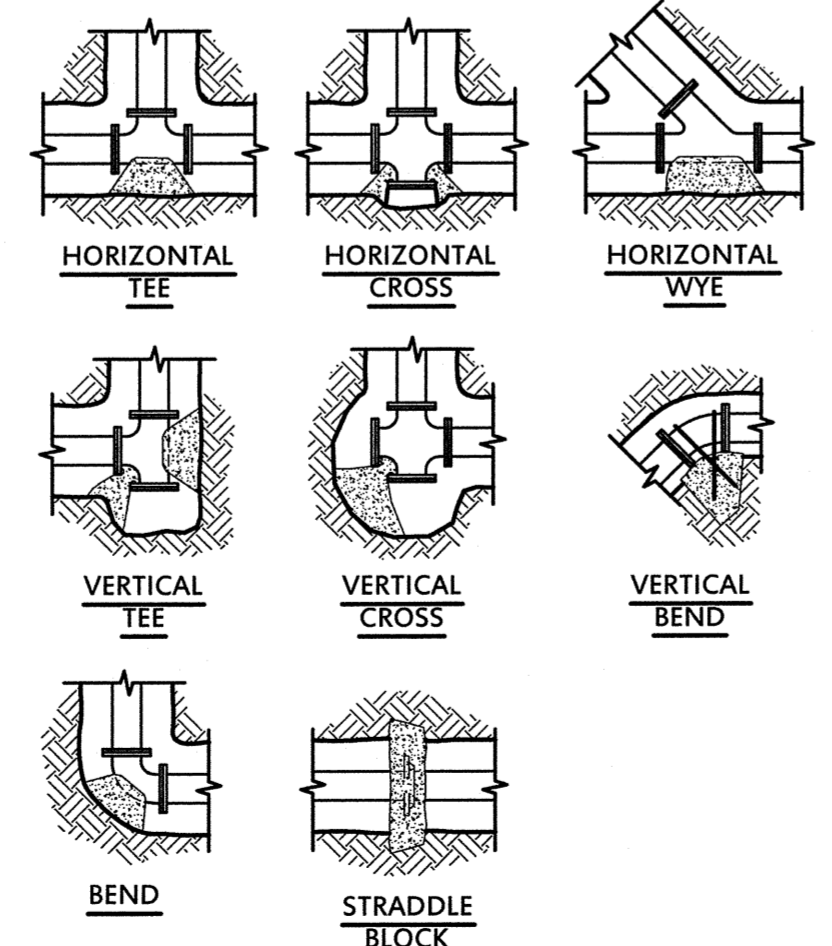
FITTING SIZE	45°			22 1/2°			11 1/4°		
	BEND	BEND	BEND	BEND	BEND	BEND	BEND	BEND	BEND
4"	1.1	0.4	0.2	1.1	0.4	0.2	1.1	0.4	0.2
6"	2.7	1.0	0.4	2.7	1.0	0.4	2.7	1.0	0.4
8"	4.0	1.5	0.6	4.0	1.5	0.6	4.0	1.5	0.6
10"	6.0	2.3	0.9	6.0	2.3	0.9	6.0	2.3	0.9
12"	8.5	3.2	1.3	8.5	3.2	1.3	8.5	3.2	1.3
14"	11.5	4.3	1.8	11.5	4.3	1.8	11.5	4.3	1.8
16"	14.8	5.6	2.3	14.8	5.6	2.3	14.8	5.6	2.3

TABLE 2 - VERTICAL BLOCKING

THRUST BLOCK REINFORCING

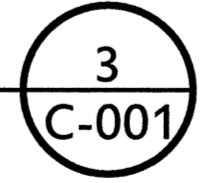
FITTING SIZE	ROD SIZE	EMBEDMENT	
		#	30"
12"	#6	2	30"
14"	#8	2	36"

TABLE 3 - REINFORCING



THRUST BLOCKS NOT TO SCALE

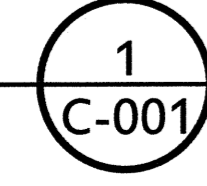
DOUBLE CHECK DETECTOR BACKFLOW PREVENTER & VAULT WITH SUMP



ABBREVIATIONS AND LEGEND

ABBREVIATION	DESCRIPTION	EXISTING	PROPOSED
BFP	BACKFLOW PREVENTION		
BLDG	BUILDING		
CONST	CONSTRUCT		
CU	CUBIC		
DC	DOUBLE CHECK		
DCD	DOUBLE CHECK DETECTOR		
DWG	DRAWING		
ELEV	ELEVATION		
EWEB	EUGENE WATER & ELECTRIC BOARD		
EX	EXISTING	— 4" W —	EXISTING WATER LINE WITH SIZE
FDC	FIRE DEPARTMENT CONNECTION		
FP	FIRE PROTECTION		
FT	FEET		
GV	GATE VALVE		
LF	LINEAR FEET		
MAX	MAXIMUM		
MIN	MINIMUM		
OAR	OREGON ADMINISTRATIVE RULE		
OD	OUTSIDE DIAMETER		
PSF	POUNDS PER SQUARE FOOT		
PSI	POUNDS PER SQUARE INCH		
PVC	POLYVINYL CHLORIDE		
SCH	SCHEDULE		
SQ	SQUARE		
STD	STANDARD		
TYP	TYPICAL		
W	DOMESTIC WATER		
WV	WATER VALVE		
YDS	YARDS		

TRENCH BACKFILL NOT TO SCALE



STRUCTURAL NOTES

GENERAL

- THESE DRAWINGS ARE COPY RIGHTED INSTRUMENTS OF SERVICE OF HOHBACH-LEWIN, INC. FOR USE ONLY ON THIS PROJECT.
- CONTRACTOR RESPONSIBILITY - CONSTRUCTION DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, SEQUENCES AND SAFETY PRECAUTIONS, INCLUDING BUT NOT LIMITED TO SHORING AND TEMPORARY BRACING.
- DIMENSIONS - USE WRITTEN DIMENSIONS ONLY. VERIFY ALL DIMENSIONS AT JOB SITE BEFORE COMMENCING WORK AND REPORT ANY DISCREPANCIES. WHERE NO DIMENSIONS ARE PROVIDED, OBTAIN CLARIFICATION PRIOR TO PROCEEDING WITH WORK.
- COORDINATION - OPENINGS THROUGH BEAMS, WALLS, AND FLOORS FOR MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE COORDINATED BY CONTRACTOR AND CONSTRUCTED PER TYPICAL DETAILS SHOWN IN THESE DOCUMENTS. NO MECHANICAL OR ELECTRICAL SYSTEM COMPONENTS SHALL BE EMBEDDED IN SLABS OR WALLS UNLESS SPECIFICALLY DETAILED IN THESE DOCUMENTS.
- OMISSIONS AND CONFLICTS - OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE CONSTRUCTION DOCUMENTS SHOULD BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM. IF CERTAIN FEATURES ARE NOT FULLY DELINEATED IN THE CONSTRUCTION DOCUMENTS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE DELINEATED.
- STRUCTURAL DRAWINGS ARE INTENDED TO BE USED IN COORDINATION WITH MECHANICAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK. SEE THE MECHANICAL DRAWINGS FOR LAYOUT/EXTENT OF NEW FIRE SPRINKLER PIPING.
- THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
- THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS.

EXISTING CONSTRUCTION/ CONDITIONS

- SHORING: THE CONTRACTOR SHALL PROVIDE SHORING WHEREVER NECESSARY TO ALLOW INSTALLATION OF THE WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE DESIGN, INSTALLATION AND MAINTENANCE OF ALL SHORING AND TEMPORARY WORK REQUIRED THROUGHOUT THE PROGRESS OF THE WORK.
- EXISTING CONSTRUCTION: EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS WAS OBTAINED FROM LIMITED VISUAL OBSERVATIONS. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND SHALL NOTIFY THE STRUCTURAL ENGINEER OF RECORD OF ALL EXCEPTIONS AND RECEIVE DIRECTION PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.
- DEMOLITION: THE REMOVAL, CUTTING, DRILLING, ETC. OF EXISTING WORK SHALL BE PERFORMED WITH GREAT CARE AND WITH APPROPRIATE TOOLS IN ORDER TO NOT JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE BUILDING.

DESIGN BASIS

APPLICABLE CODE: 2010 OREGON STRUCTURAL SPECIALTY CODE (2009 INTERNATIONAL BUILDING CODE WITH 2010 OSBC AMMENDMENTS)

A. VERTICAL LOADS:

ROOF:
LIVE LOAD: 20psf
SNOW LOAD: 25psf
FLOOR:
LIVE LOAD: 60psf
100 psf (LOUNGES)

B. LATERAL LOADS:

DESIGN SEISMIC CRITERIA:
SITE CLASS: D
 $S_{ps} = 0.364g$
IMPORTANCE FACTOR, $I = 1.0$
SEISMIC DESIGN CATEGORY: D
OCCUPANCY CATEGORY: II

MATERIALS

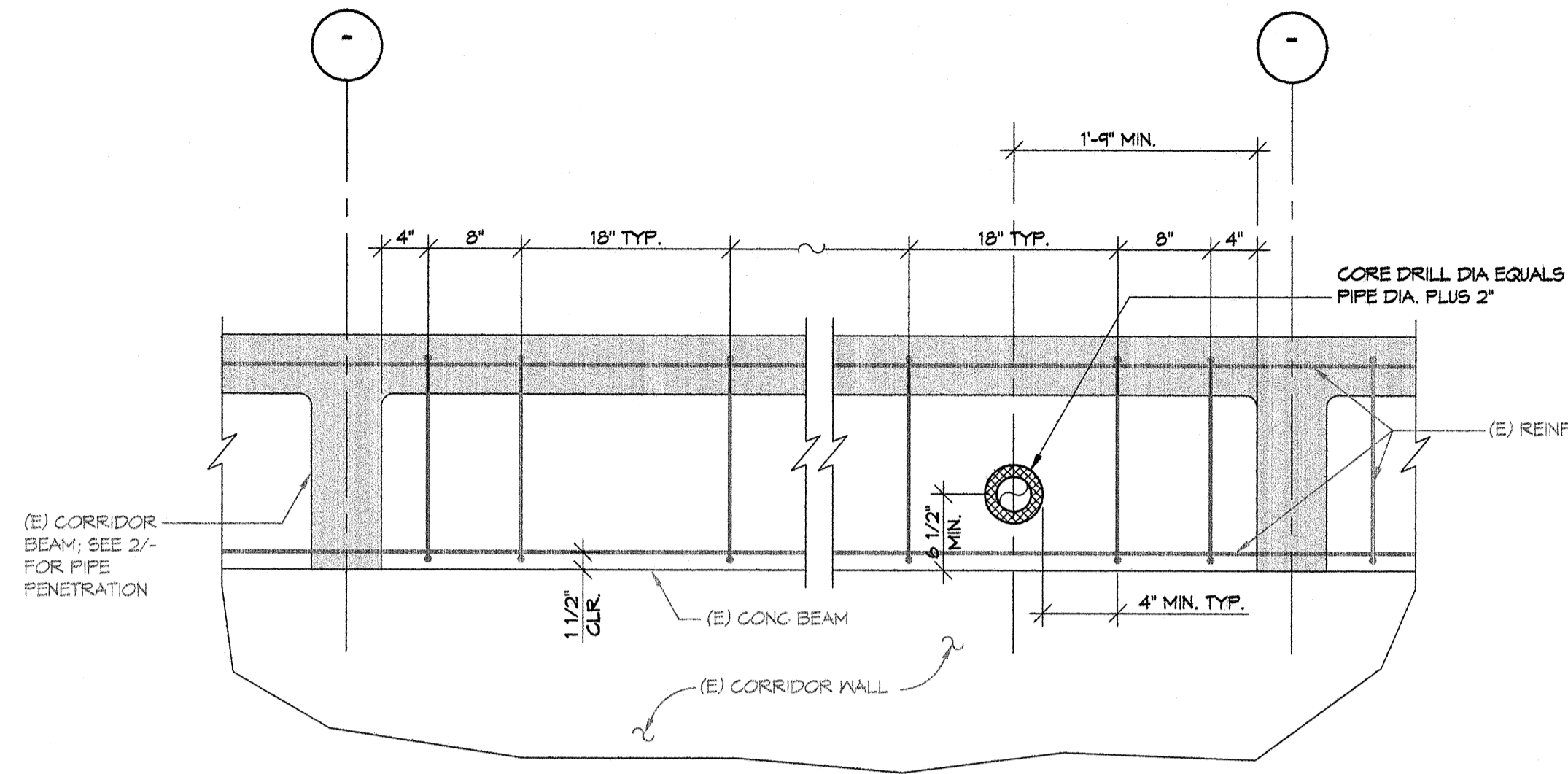
- EXPANSION ANCHORS: HILTI KB-TZ ICC-ESR 1917
- COUPLER NUTS: RATED FOR CAPACITY OF CONNECTED ROD
- THREADED ROD: ASTM A307

TESTING SPECIAL INSPECTION AND OBSERVATION

- THE FOLLOWING WORK IS REQUIRED IF MARKED TO BE TESTED, SPECIAL INSPECTED, OR STRUCTURALLY OBSERVED. PER OSBC CHAPTER 17 REQUIREMENTS. TESTING SHALL BE MADE IN ACCORDANCE WITH THE CURRENT CODE BY AN APPROVED SPECIAL TESTING LAB, SPECIAL INSPECTOR, AND OR BY AN ENGINEER RETAINED BY THE OWNER.
- INSPECTION MAY BE PERIODIC.

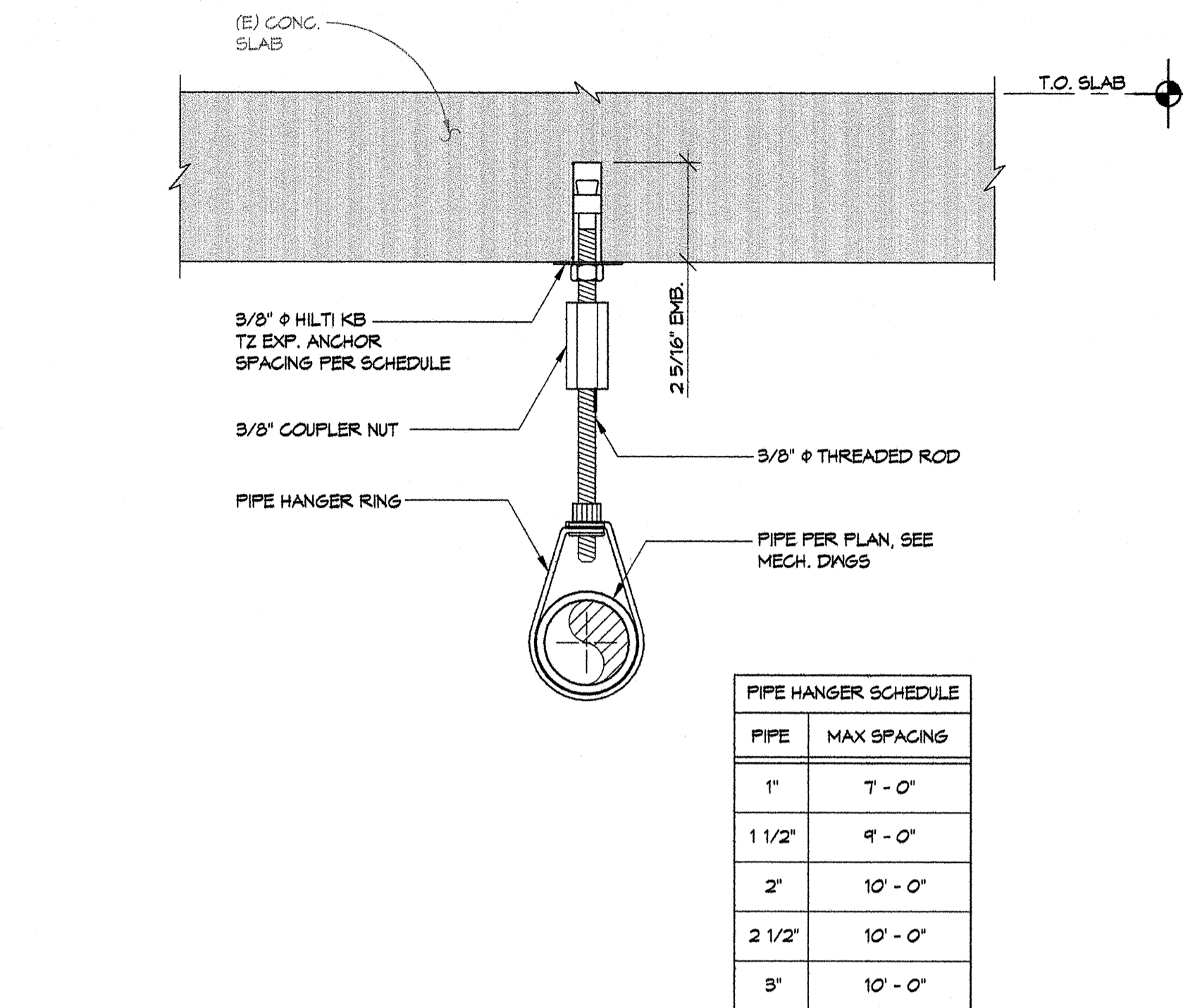
ITEM	TO BE PROVIDED IF MARKED (1)		
	TESTING	SPECIAL INSPECTION	ENGINEERS OBSERVATION
EXPANSION ANCHORS		X (2)	

NOTE:
(E) REINF. LAYOUT IS BASED ON ORIGINAL STRUCTURAL DRAWINGS. CONTRACTOR TO VERIFY REINF. LOCATIONS VIA X-RAY. DO NOT CUT (E) REINF.



3 TYPICAL CORE DRILL FOR PIPE INSTALLATION AT (E) CORRIDOR WALL

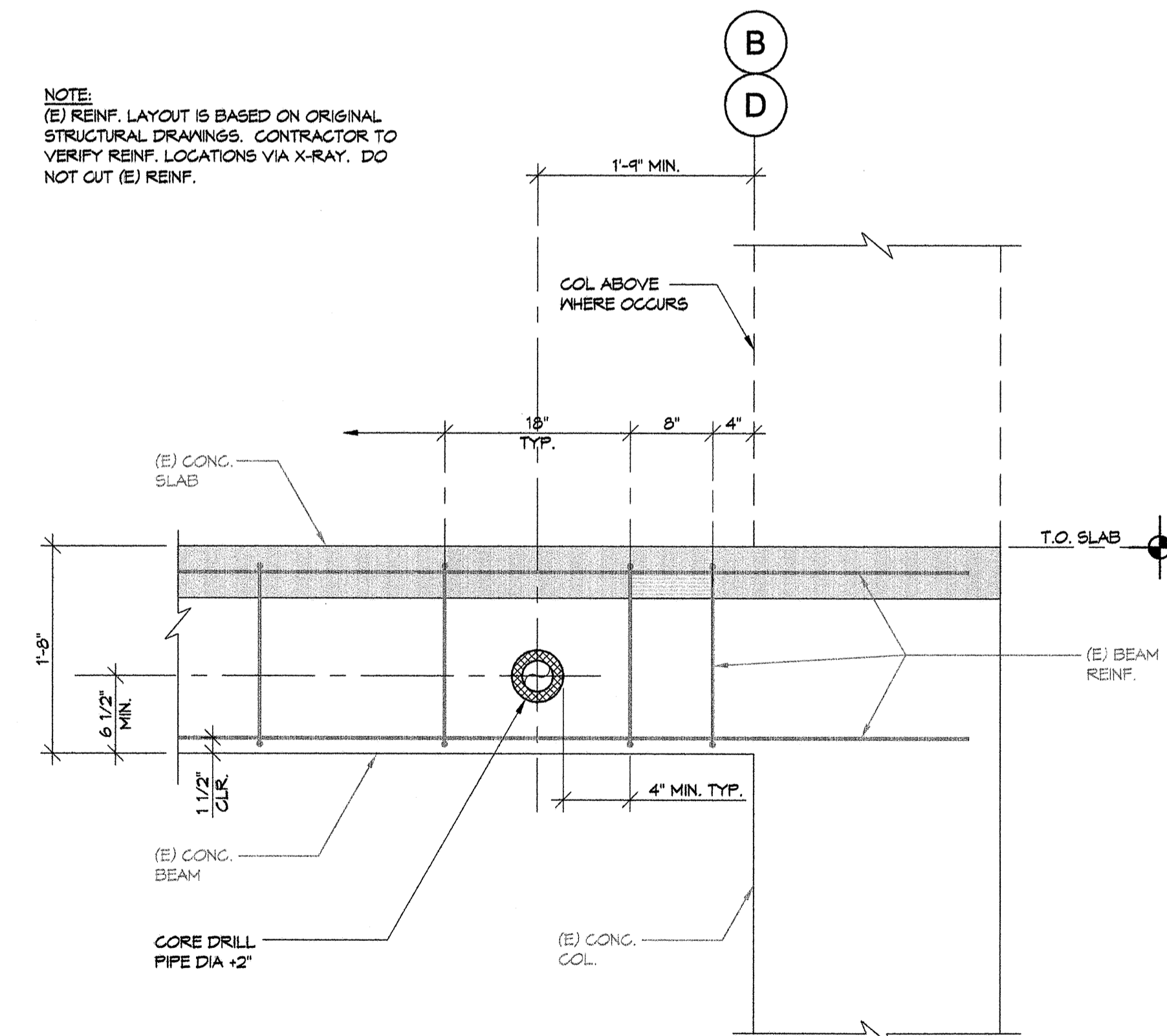
1" = 1'-0"



1 TYPICAL SPRINKLER PIPE ANCHORAGE

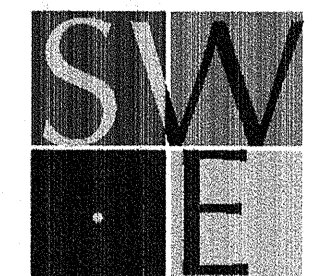
3" = 1'-0"

NOTE:
(E) REINF. LAYOUT IS BASED ON ORIGINAL STRUCTURAL DRAWINGS. CONTRACTOR TO VERIFY REINF. LOCATIONS VIA X-RAY. DO NOT CUT (E) REINF.

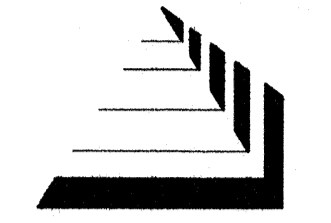


2 TYPICAL CORE DRILL FOR PIPE INSTALLATION AT (E) CORRIDOR BEAM

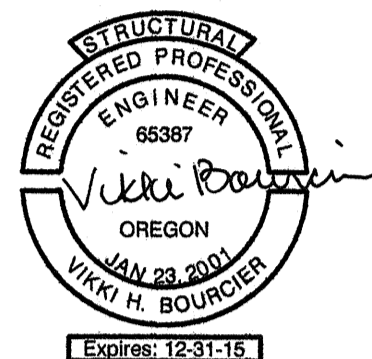
1" = 1'-0"



SYSTEMS WEST ENGINEERS, INC.
411 High Street
Eugene, Oregon 97401-2427
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HOHBACH-LEWIN, INC.
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296 East 5th Ave, Suite 302
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(541) 349-1701, Fax (541) 349-1702



FIRE PROTECTION

RILEY RESIDENCE HALL

LOCATION:
650 East 11TH Avenue
EUGENE, OREGON

OWNER:
University of Oregon
Housing

STRUCTURAL
NOTES AND
DETAILS

MARK DATE DESCRIPTION

DESIGNED VHB

DRAWN AMA

CHECKED VHB

FILENAME:
48315100

DATE 09MAY2014

PROJECT PO10.01

S-100

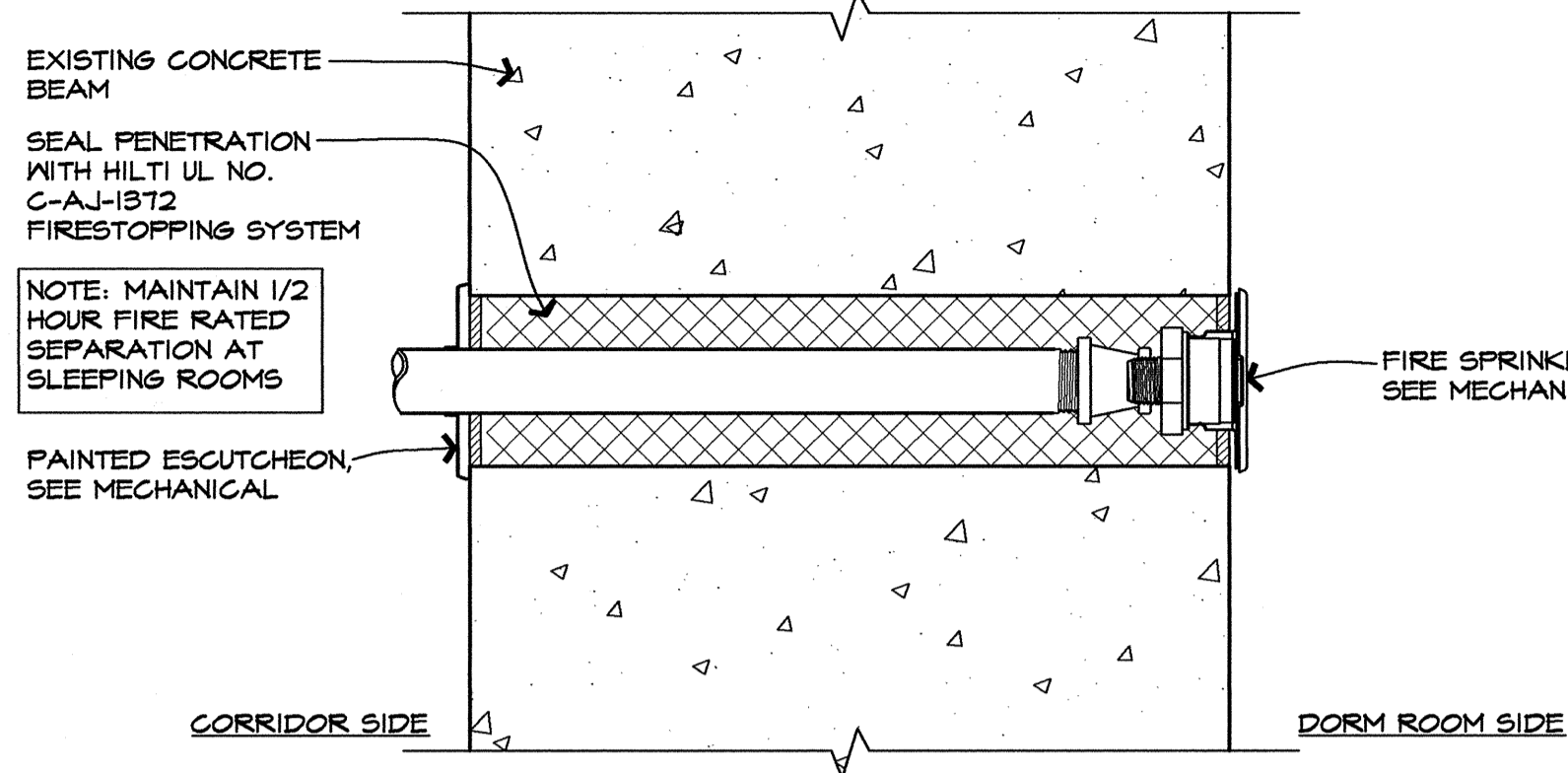
MARK	DATE	DESCRIPTION
DESIGNED	gLas	
DRAWN	gLas	
CHECKED	gLas	
FILENAME	A-120	

GENERAL NOTES:

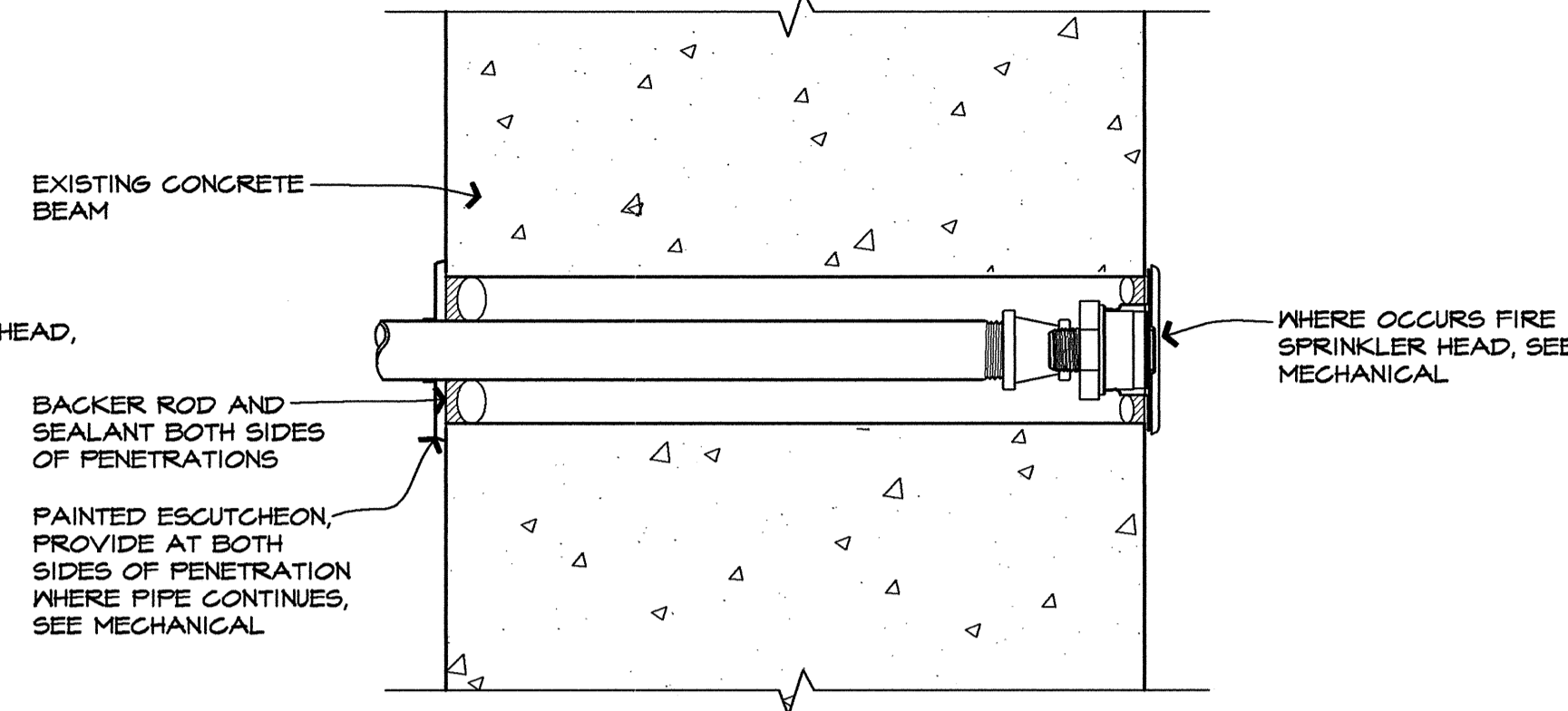
- REVIEW FIRE PROTECTION DRAWINGS AND PERFORM ALL CORE DRILLING AND SAW CUTTING AS REQUIRED FOR COMPLETE INSTALLATION OF FIRE PROTECTION SYSTEM. REMOVE ONLY AS MUCH WALL OR FLOOR SLAB AS NECESSARY FOR PIPING INSTALLATION. SEE STRUCTURAL.
- ALL EXPOSED PIPING, COUPLINGS, AND ASSOCIATED HARDWARE FOR COMPLETE INSTALLATION OF FIRE PROTECTION SYSTEM SHALL BE PAINTED WHERE EXPOSED TO VIEW - DO NOT PAINT SPRINKLER HEADS, MASK HEADS TO PREVENT OVERSPRAY.

R.C.P. NOTES:

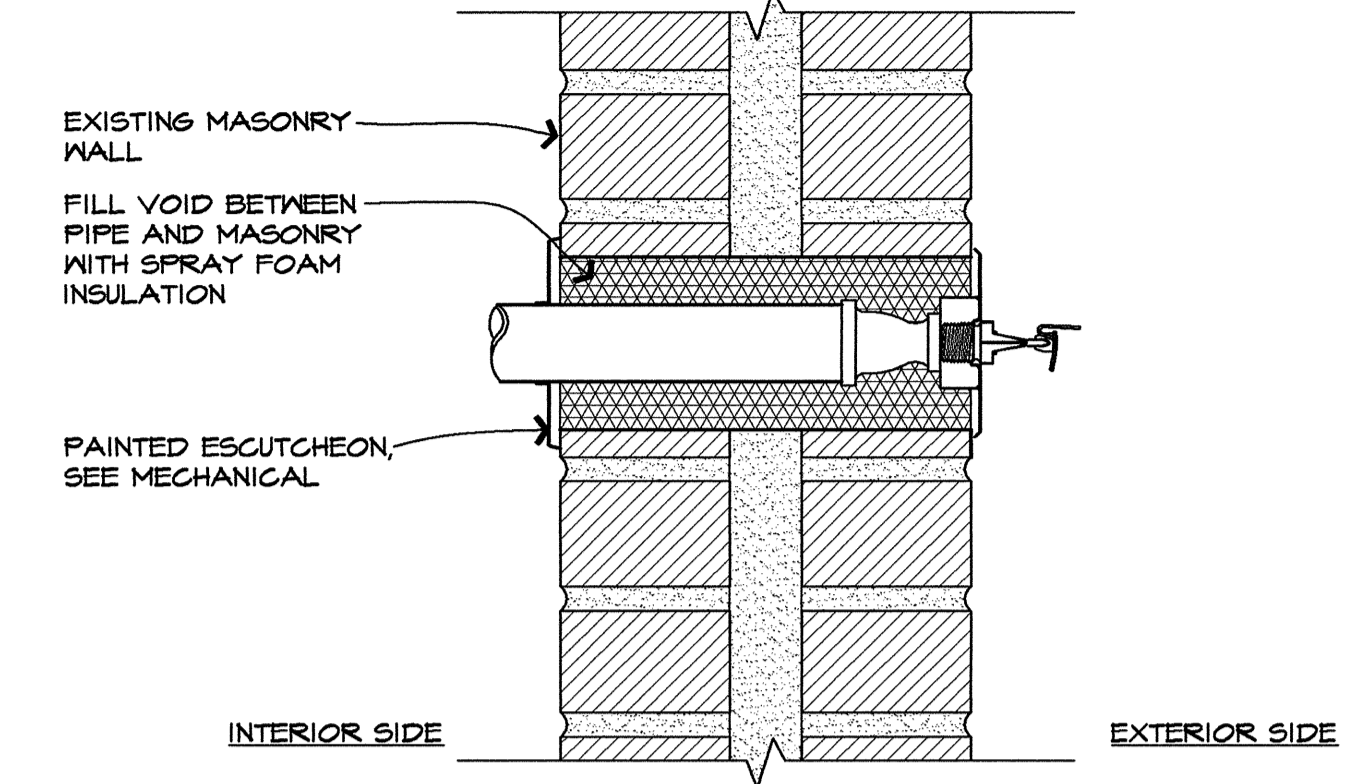
- WALL PENETRATION AT PLASTER WALL OR SIDE OF SOFFIT. PATCH PLASTER FINISH TO MATCH ADJACENT. TOUCH-UP PAINT AS NECESSARY, WITH PAINT COVERAGE TO EXTEND TO NEXT WALL BREAK.
- NOT USED, THIS SHEET
- WALL PENETRATION AT NON-RATED CONCRETE BEAM. TOUCH-UP PAINT AS NECESSARY, WITH PAINT COVERAGE TO EXTEND TO NEXT WALL BREAK. SEE DETAIL.
- NOT USED, THIS SHEET.
- PATCH WALL PENETRATION AT CONCRETE OR MASONRY WALL WHERE PIPING IS REMOVED. FILL VOID SOLID WITH NON-SHRINK GROUT AND TOOL TO A SMOOTH SURFACE FLUSH WITH ADJACENT - BOTH SIDES. TOUCH-UP PAINT AS NECESSARY, WITH PAINT COVERAGE TO EXTEND TO NEXT WALL BREAK.



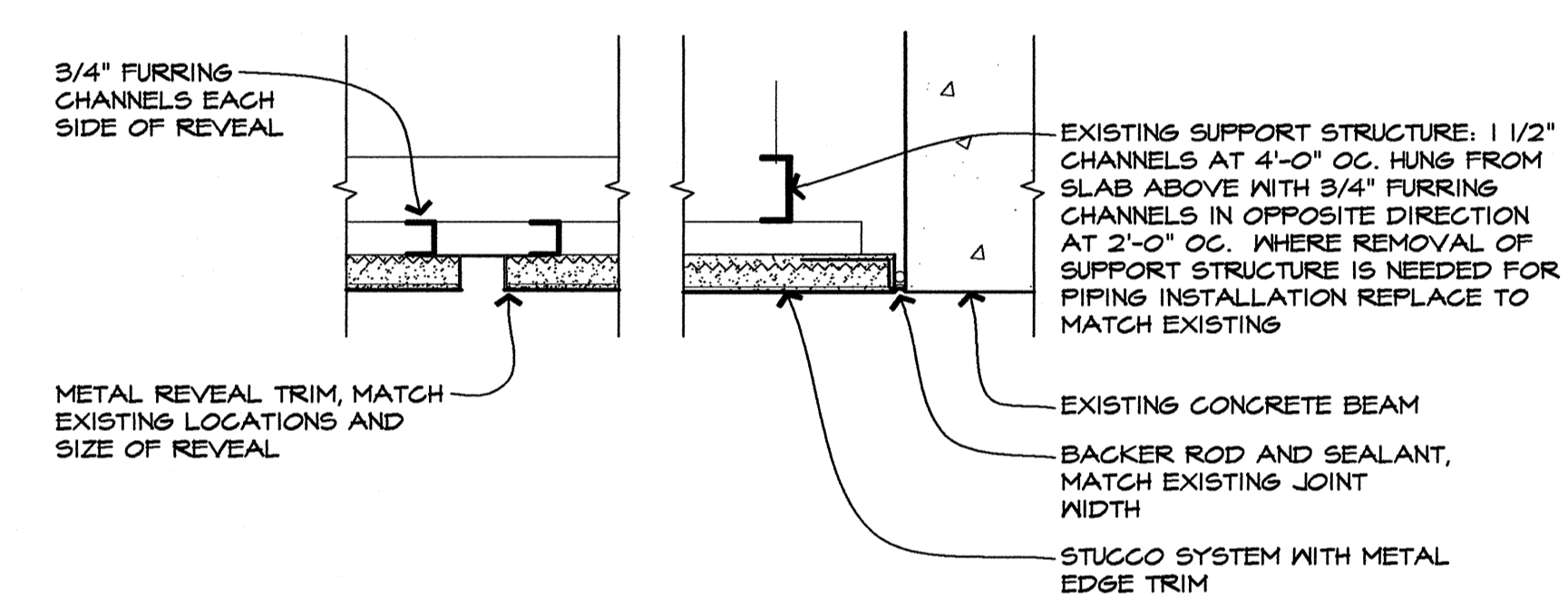
2 RATED PENETRATION AT CONCRETE BEAM
SCALE: 3" = 1'-0"



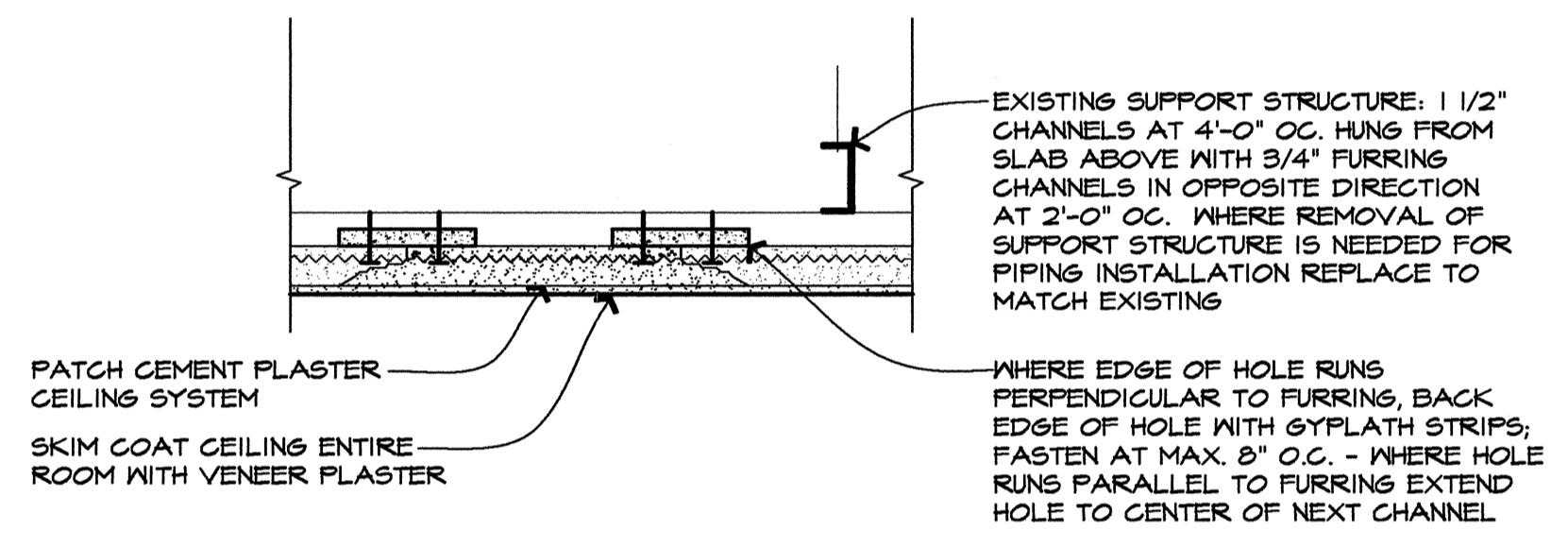
3 PENETRATION AT NON-RATED CONCRETE BEAM
SCALE: 3" = 1'-0"



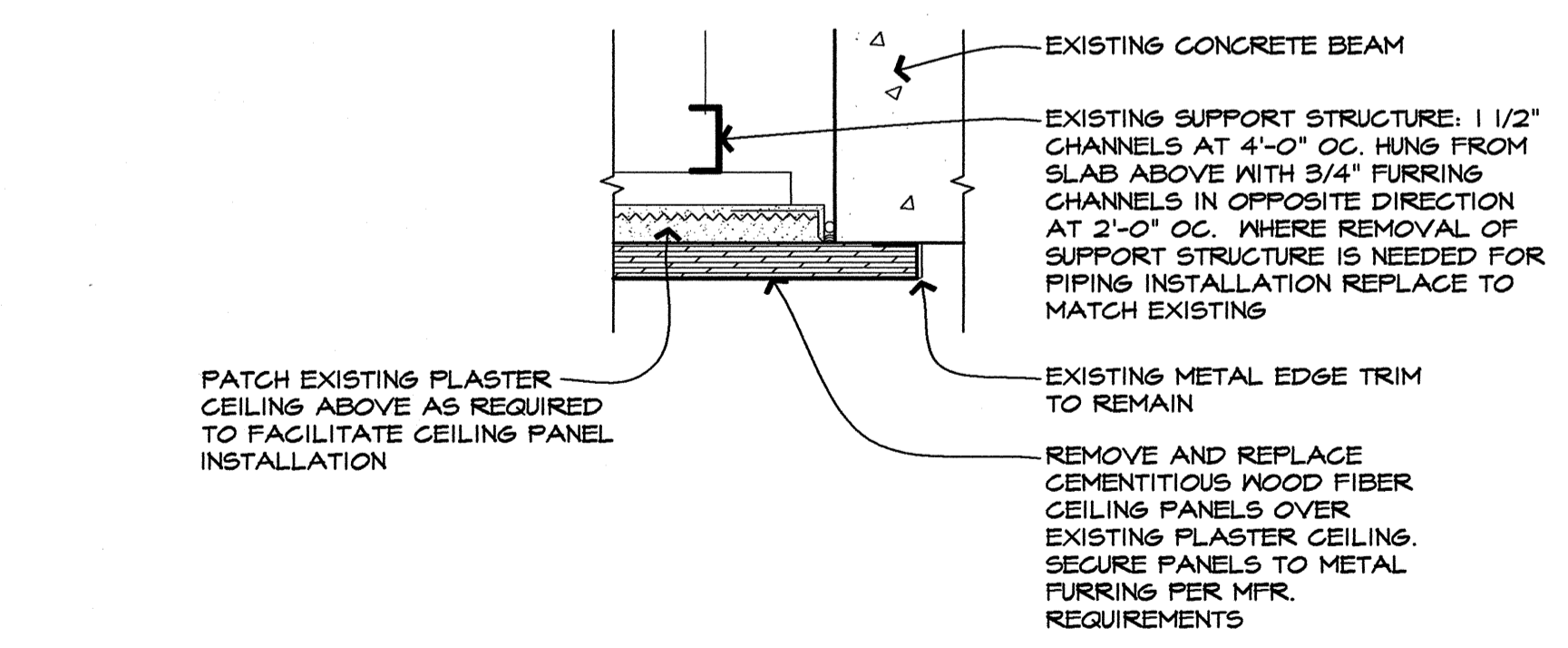
4 PENETRATION AT EXTERIOR WALL
SCALE: 3" = 1'-0"



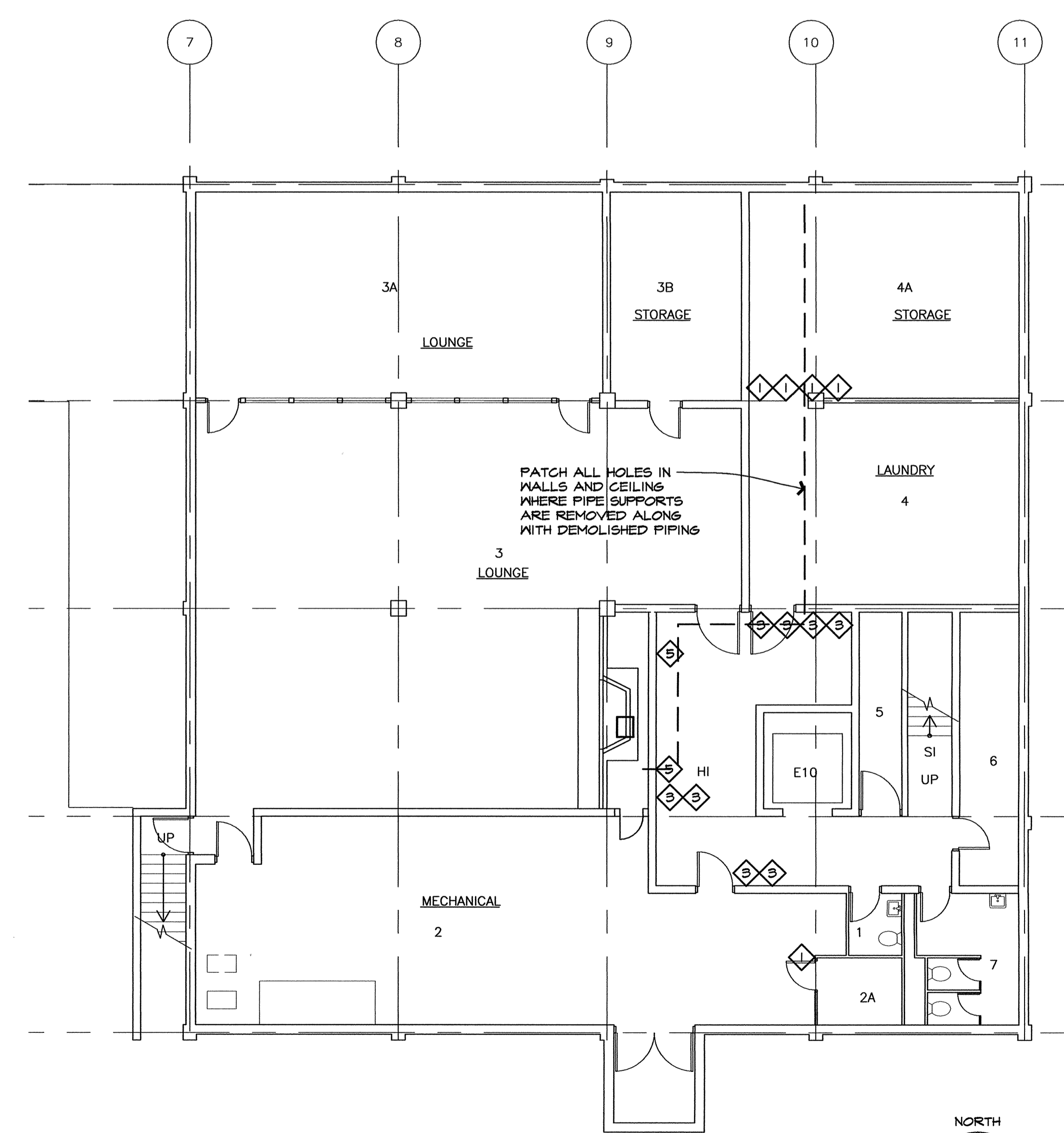
5 STUCCO SOFFIT REPLACEMENT
SCALE: 3" = 1'-0"



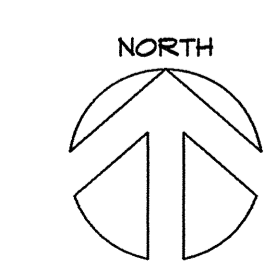
6 TYPICAL PLASTER CEILING PATCH
SCALE: 3" = 1'-0"



7 CEILING AT HALLS H253 AND H353
SCALE: 3" = 1'-0"



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



MARK	DATE	DESCRIPTION
DESIGNED	gLas	
DRAWN	gLas	
CHECKED	gLas	
FILENAME	A-121	

GENERAL NOTES:

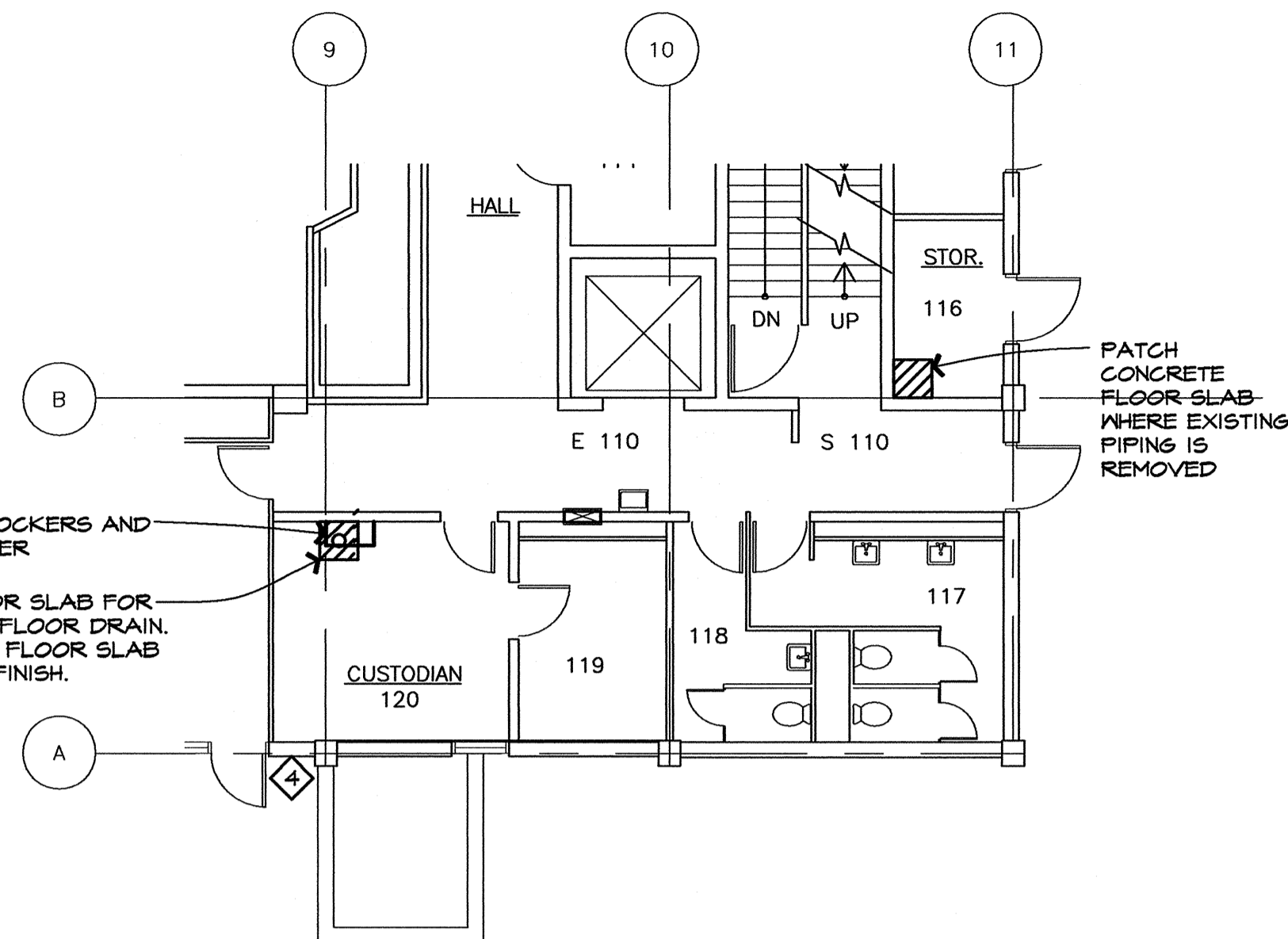
- REVIEW FIRE PROTECTION DRAWINGS AND PERFORM ALL CORE DRILLING AND SAW CUTTING AS REQUIRED FOR COMPLETE INSTALLATION OF FIRE PROTECTION SYSTEM. REMOVE ONLY AS MUCH WALL OR FLOOR SLAB AS NECESSARY FOR PIPING INSTALLATION. SEE STRUCTURAL.
- ALL EXPOSED PIPING, COUPLINGS, AND ASSOCIATED HARDWARE FOR COMPLETE INSTALLATION OF FIRE PROTECTION SYSTEM SHALL BE PAINTED WHERE EXPOSED TO VIEW - DO NOT PAINT SPRINKLER HEADS, MASK HEADS TO PREVENT OVERSPRAY.

R.C.P. NOTES:

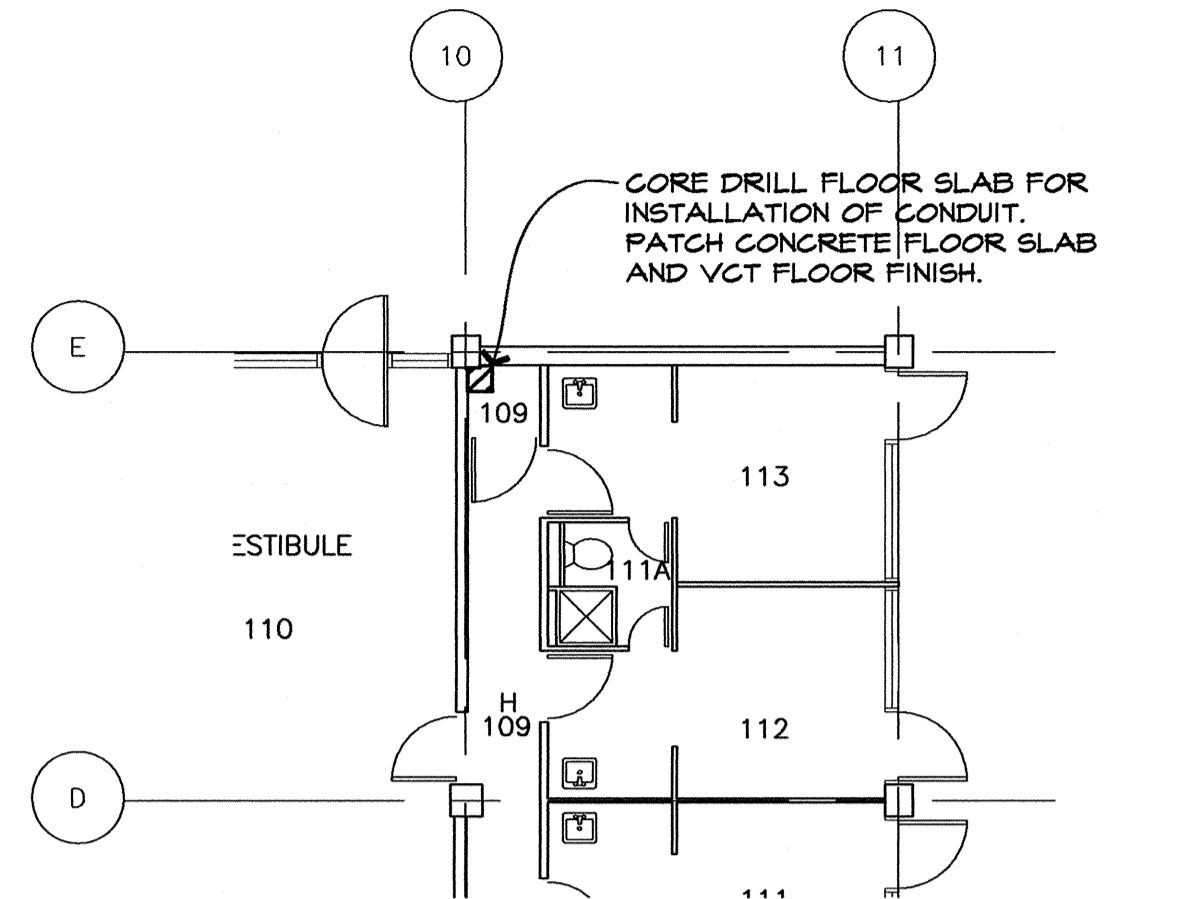
- WALL PENETRATION AT PLASTER WALL OR SIDE OF SOFFIT. PATCH PLASTER FINISH TO MATCH ADJACENT. TOUCH-UP PAINT AS NECESSARY, WITH PAINT COVERAGE TO EXTEND TO NEXT WALL BREAK.
- NOT USED, THIS SHEET.
- WALL PENETRATION AT NON-RATED CONCRETE BEAM. TOUCH-UP PAINT AS NECESSARY, WITH PAINT COVERAGE TO EXTEND TO NEXT WALL BREAK. SEE DETAIL 3-A-120.
- WALL PENETRATION AT EXTERIOR CONCRETE OR MASONRY WALL. SEE DETAIL 4-A-120.

R.C.P. LEGEND:

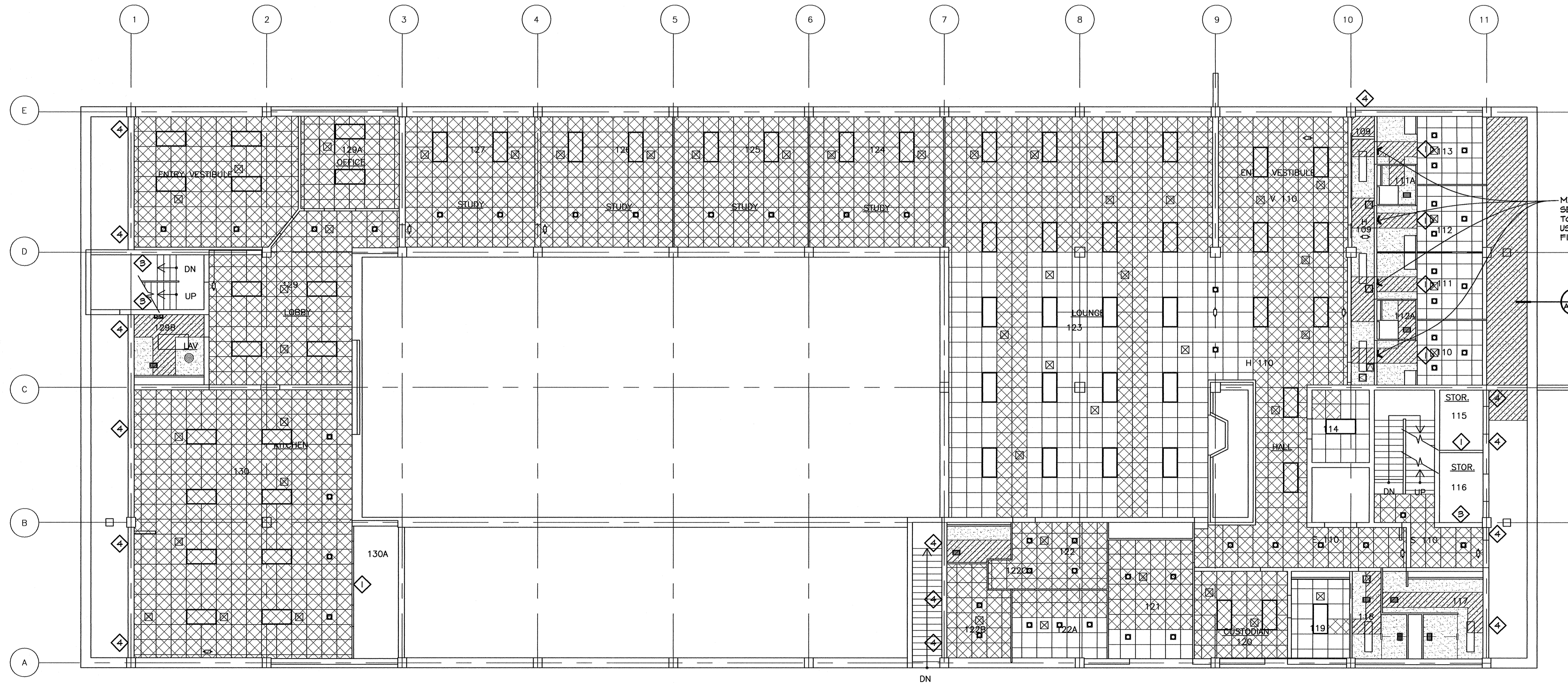
- HATCH IDENTIFIES AREAS WHERE EXISTING CEMENT PLASTER CEILING OR STUCCO SOFFIT IS TO BE REMOVED. CUT AND REMOVE ENOUGH CEILING OR SOFFIT TO ALLOW FOR INSTALLATION OF NEW PIPING AND SPRINKLER HEADS AND PATCH BACK THE CEILING OR SOFFIT TO MATCH EXISTING, SEE 5-A-120 6-A-120.
- HATCH INDICATES THAT CEILING IN ENTIRE ROOM SHALL RECEIVE A SKIM COAT OF PLASTER AND PAINT SYSTEM TO MASK PATCHING. REMOVE AND REINSTALL ALL CEILING MOUNTED ITEMS TO ALLOW FOR SKIM COAT AND PAINT WORK INCLUDING GRILLS, LIGHT FIXTURES, TOILET AND SHOWER PARTITIONS, ACCESS PANELS, SMOKE DETECTORS, ETC.
- HATCH IDENTIFIES AREAS WHERE EXISTING SUSPENDED CEILING PANELS AND RUNNERS ARE TO BE REMOVED AS REQUIRED FOR COMPLETION OF WORK AND EITHER REPLACED OR REINSTALLED TO A LIKE-NEW CONDITION. CEILING REMOVAL AND REPLACEMENT SHALL BE COORDINATED TO ALLOW FOR INSTALLATION OF NEW FIRE SPRINKLER PIPING AND HEADS.
- LIGHT FIXTURES, REMOVE AND REINSTALL AS NEEDED TO PERFORM WORK AT CEILING, SEE ELECTRICAL.
- MECHANICAL GRILL OR ACCESS PANEL, REMOVE AND REINSTALL AS NEEDED TO PERFORM WORK AT CEILING, SEE MECHANICAL.
- OVERHEAD BRACED TOILET OR SHOWER PARTITIONS, REMOVE AND REINSTALL AS NEEDED TO PERFORM WORK AT CEILING.



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

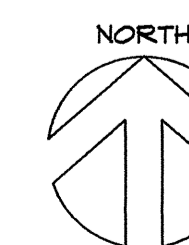


3 PARTIAL 1ST FLOOR PLAN
SCALE: 1/8" = 1'-0"



1 1ST FLOOR REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

MAINTAIN 1/2 HOUR FIRE RATED SEPARATION AT PENETRATIONS TO SLEEPING ROOMS, TYPICAL. USE HILTI UL NO. C-A-1512 FIRESTOPPING SYSTEM.



R.C.P. LEGEND:

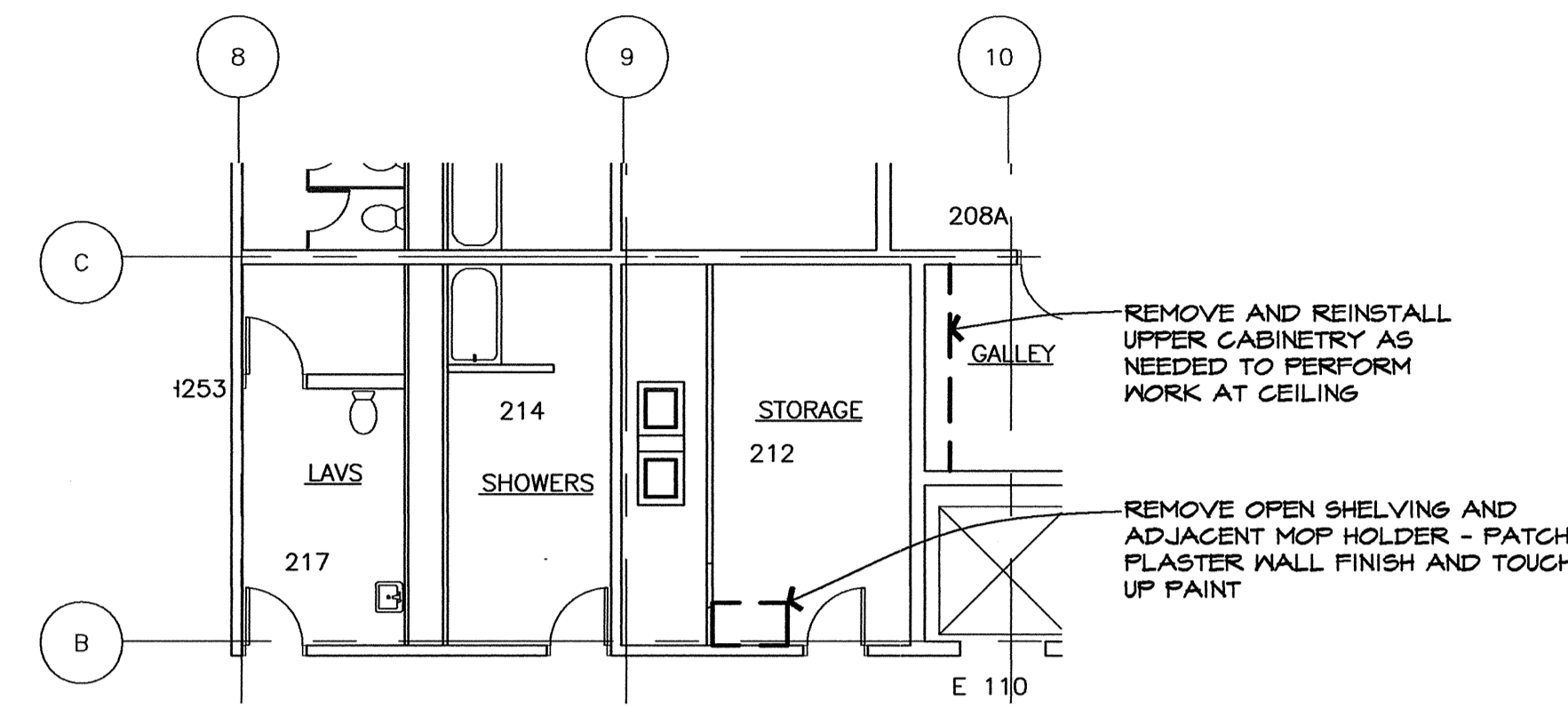
- HATCH IDENTIFIES AREAS WHERE EXISTING CEMENT PLASTER CEILING OR STUCCO SOFFIT IS TO BE REMOVED. CUT AND REMOVE ENOUGH CEILING OR SOFFIT TO ALLOW FOR INSTALLATION OF NEW PIPING AND SPRINKLER HEADS AND PATCH BACK THE CEILING OR SOFFIT TO MATCH EXISTING. SEE (5) (6) (A-120) (A-120)
- HATCH INDICATES THAT CEILING IN ENTIRE ROOM SHALL RECEIVE A SKIM COAT OF PLASTER AND PAINT SYSTEM TO MASK PATCHING. REMOVE AND REINSTALL ALL CEILING MOUNTED ITEMS TO ALLOW FOR SKIM COAT AND PAINT WORK INCLUDING GRILLS, LIGHT FIXTURES, TOILET AND SHOWER PARTITIONS, ACCESS PANELS, SMOKE DETECTORS, ETC.
- HATCH INDICATES AREAS WHERE CEMENTITIOUS WOOD FIBER CEILING OVER SUSPENDED PLASTER CEILING IS TO BE REMOVED. CUT AND REMOVE ENOUGH PLASTER CEILING ABOVE FOR INSTALLATION OF NEW PIPING AND SPRINKLER HEADS AND PATCH BACK. REPLACE CEMENTITIOUS WOOD FIBER CEILING. SEE (7) (A-120)
- LIGHT FIXTURES, REMOVE AND REINSTALL AS NEEDED TO PERFORM WORK AT CEILINGS, SEE ELECTRICAL.
- MECHANICAL GRILL OR ACCESS PANEL, REMOVE AND REINSTALL AS NEEDED TO PERFORM WORK AT CEILINGS, SEE MECHANICAL.
- OVERHEAD BRACED TOILET OR SHOWER PARTITIONS, REMOVE AND REINSTALL AS NEEDED TO PERFORM WORK AT CEILING.

GENERAL NOTES:

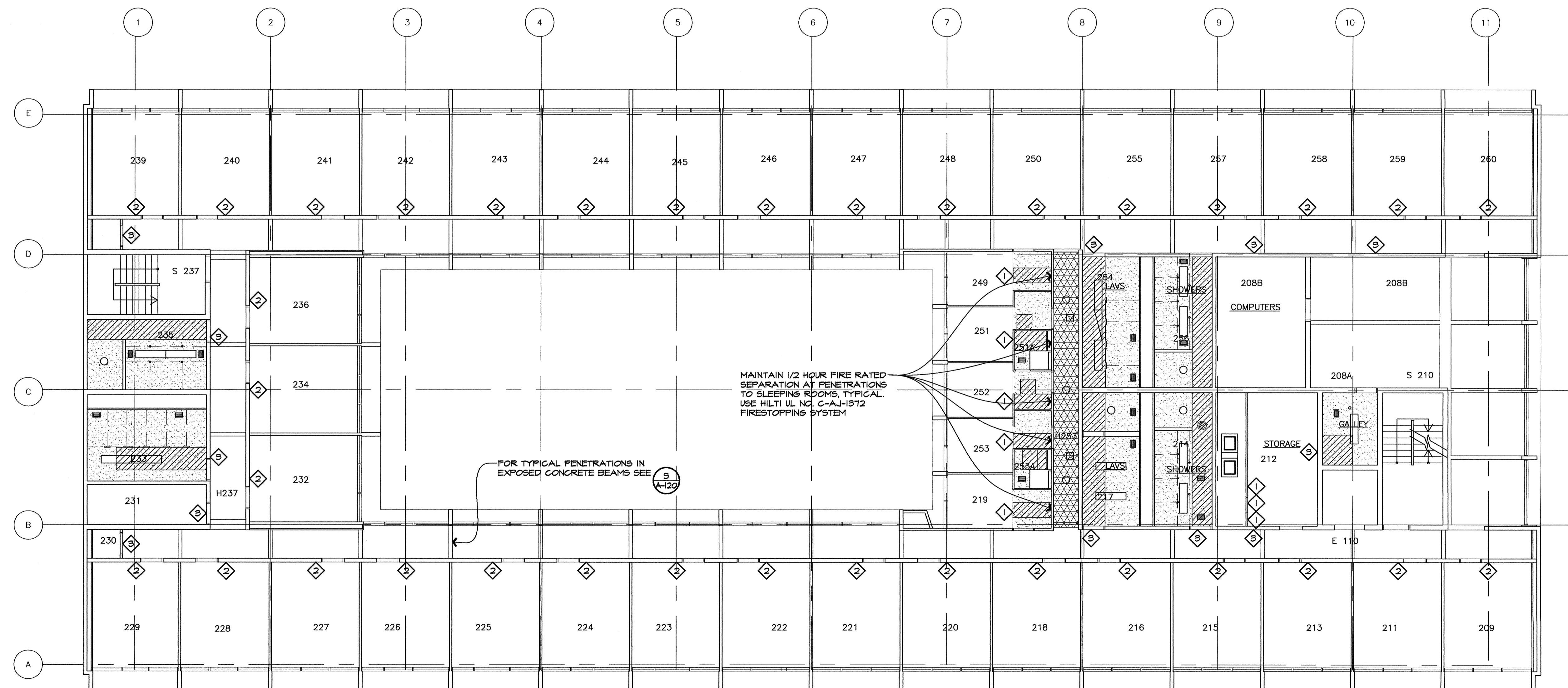
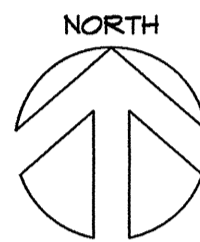
1. REVIEW FIRE PROTECTION DRAWINGS AND PERFORM ALL CORE DRILLING AND SAM CUTTING AS REQUIRED FOR COMPLETE INSTALLATION OF FIRE PROTECTION SYSTEM. REMOVE ONLY AS MUCH WALL OR FLOOR SLAB AS NECESSARY FOR PIPING INSTALLATION. SEE STRUCTURAL.
2. ALL EXPOSED PIPING, COUPLINGS, AND ASSOCIATED HARDWARE FOR COMPLETE INSTALLATION OF FIRE PROTECTION SYSTEM SHALL BE PAINTED WHERE EXPOSED TO VIEW - DO NOT PAINT SPRINKLER HEADS, MASK HEADS TO PREVENT OVERSPRAY.

R.C.P. NOTES:

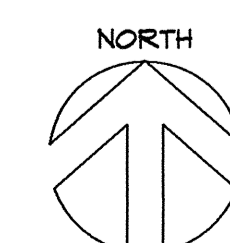
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- WALL PENETRATION AT RATED CONCRETE BEAM. TOUCH-UP PAINT AS NECESSARY, WITH PAINT COVERAGE TO EXTEND TO NEXT WALL BREAK. SEE DETAIL (3) (A-120)
- WALL PENETRATION AT NON-RATED CONCRETE BEAM. TOUCH-UP PAINT AS NECESSARY, WITH PAINT COVERAGE TO EXTEND TO NEXT WALL BREAK. SEE DETAIL (3) (A-120)



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



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



MARK	DATE	DESCRIPTION
DESIGNED		gLas
DRAWN		gLas
CHECKED		gLas
FILENAME		A-123

R.C.P. LEGEND:

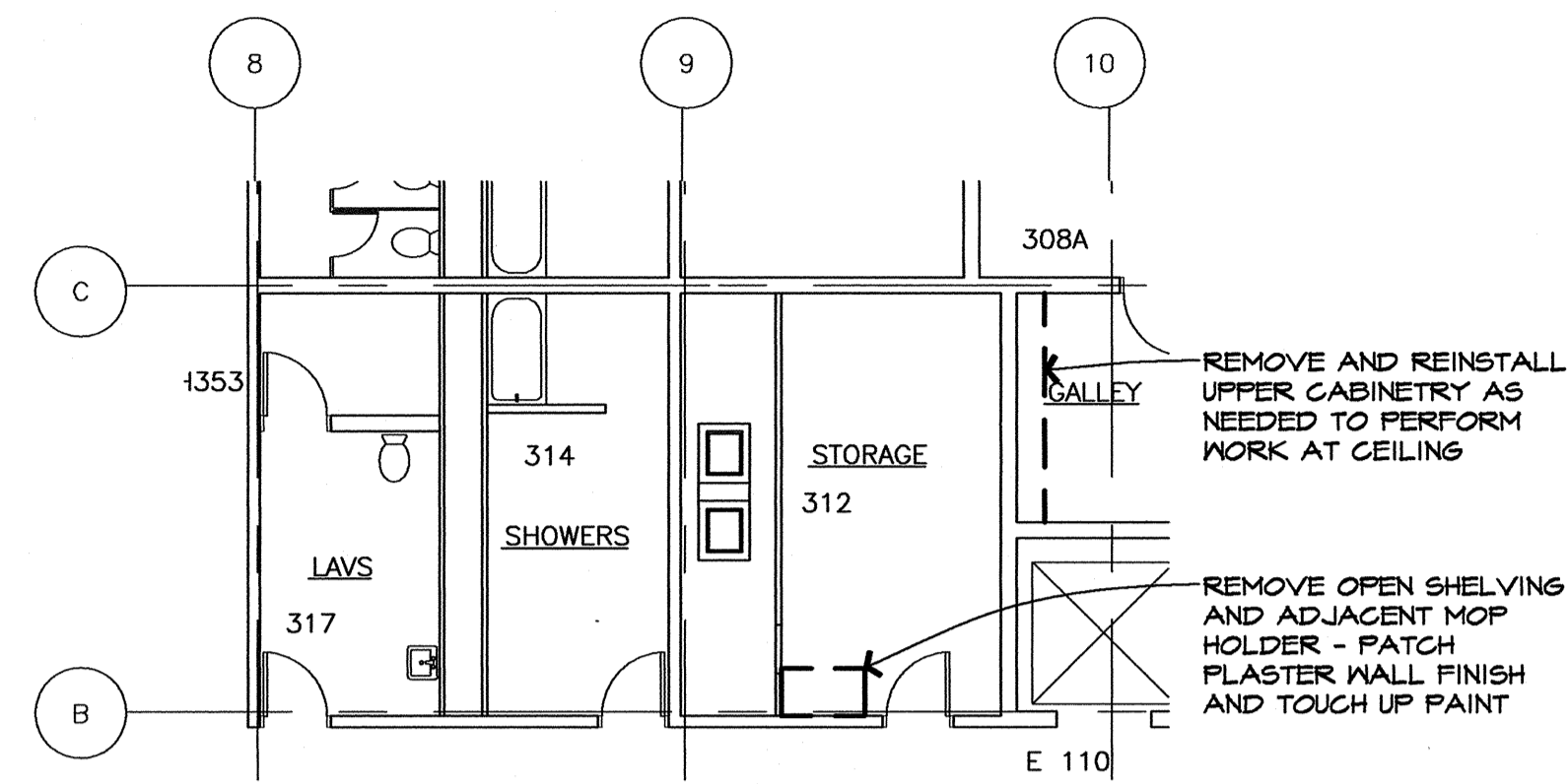
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- HATCH INDICATES AREAS WHERE CEMENTITIOUS WOOD FIBER CEILING OVER SUSPENDED PLASTER CEILING IS TO BE REMOVED. CUT AND REMOVE ENOUGH PLASTER CEILING ABOVE FOR INSTALLATION OF NEW PIPING AND SPRINKLER HEADS AND PATCH BACK. REPLACE CEMENTITIOUS WOOD FIBER CEILINGS, SEE (7) (A-120)
- LIGHT FIXTURES, REMOVE AND REINSTALL AS NEEDED TO PERFORM WORK AT CEILING, SEE ELECTRICAL.
- MECHANICAL GRILL OR ACCESS PANEL, REMOVE AND REINSTALL AS NEEDED TO PERFORM WORK AT CEILING, SEE MECHANICAL.
- OVERHEAD BRACED TOILET OR SHOWER PARTITIONS, REMOVE AND REINSTALL AS NEEDED TO PERFORM WORK AT CEILING.

GENERAL NOTES:

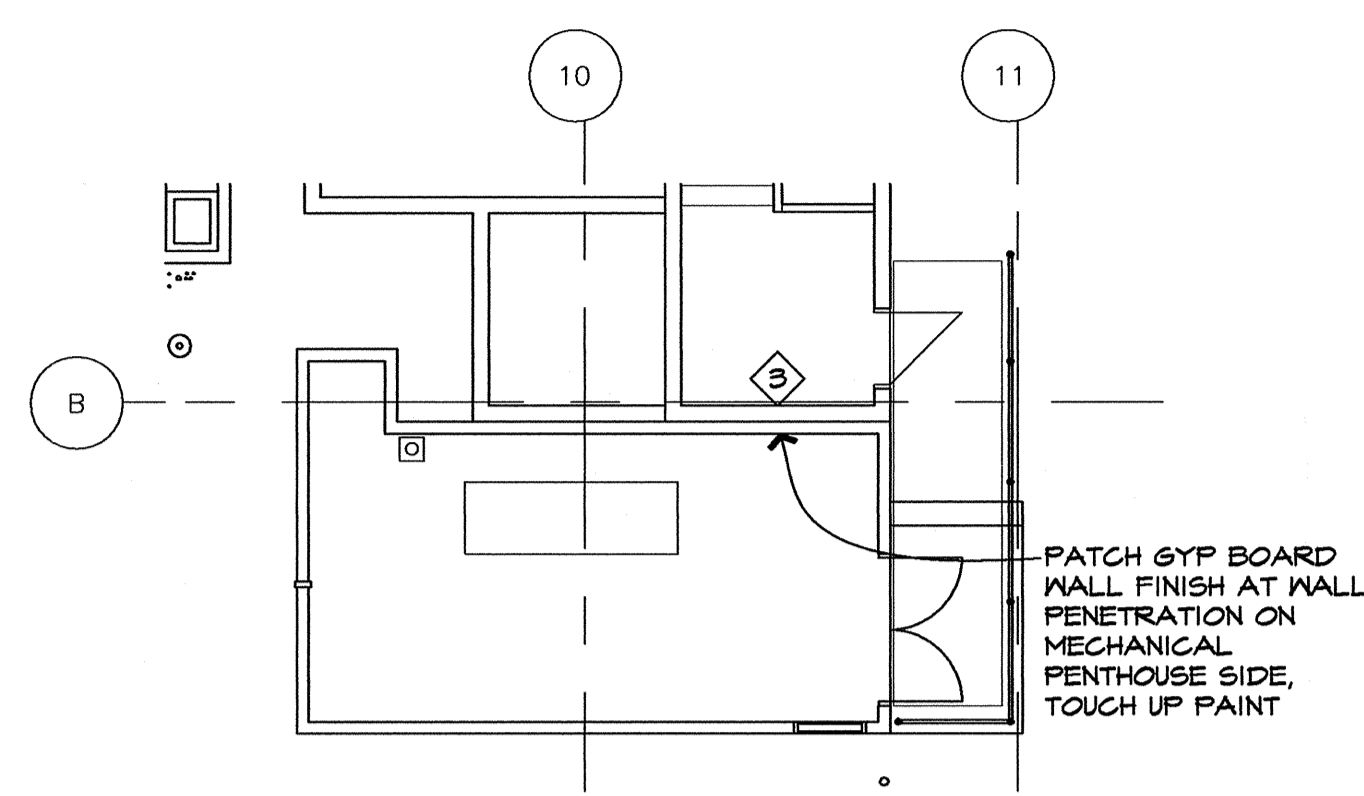
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2. ALL EXPOSED PIPING, COUPLINGS, AND ASSOCIATED HARDWARE FOR COMPLETE INSTALLATION OF FIRE PROTECTION SYSTEM SHALL BE PAINTED WHERE EXPOSED TO VIEW - DO NOT PAINT SPRINKLER HEADS, MASK HEADS TO PREVENT OVERSPRAY.

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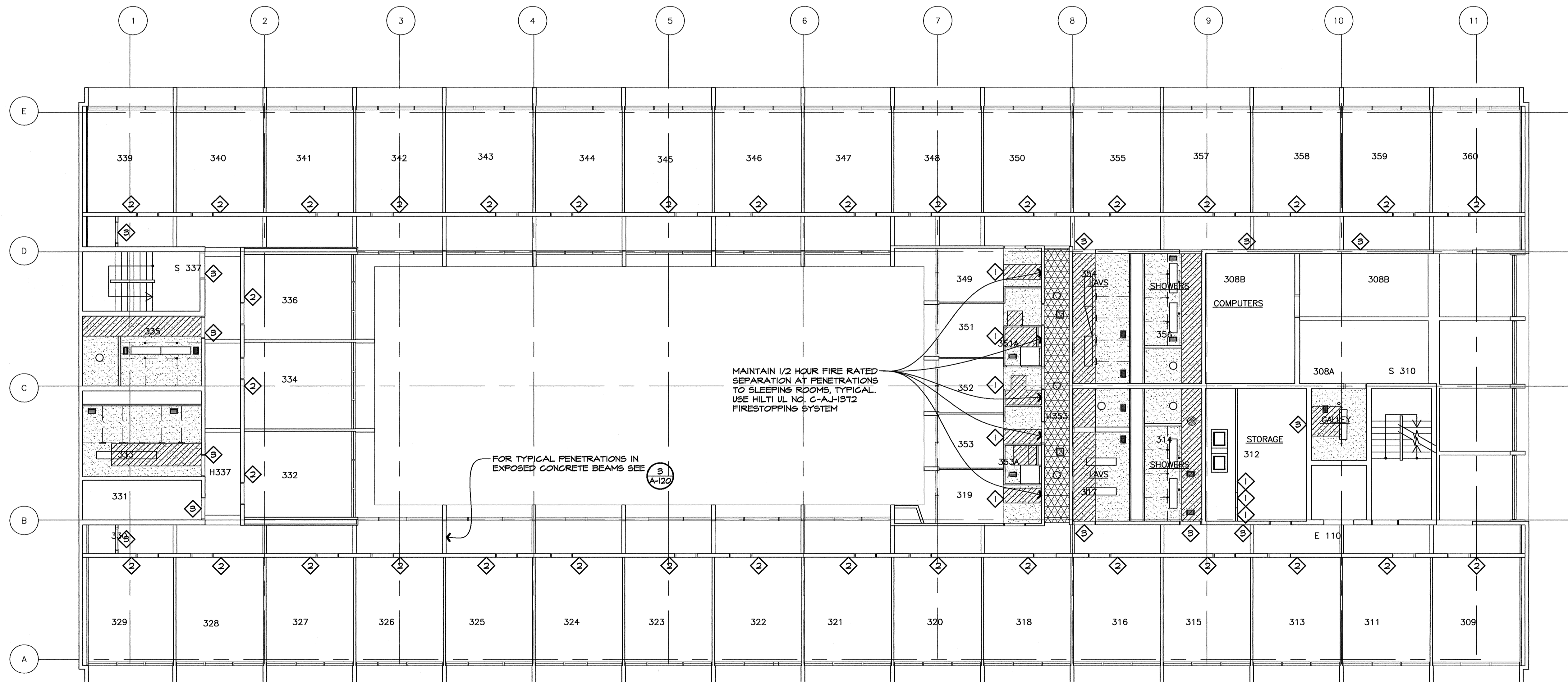
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- 2 WALL PENETRATION AT RATED CONCRETE BEAM. TOUCH-UP PAINT AS NECESSARY, WITH PAINT COVERAGE TO EXTEND TO NEXT WALL BREAK. SEE DETAIL (2) (A-120)
- 3 WALL PENETRATION AT NON-RATED CONCRETE BEAM. TOUCH-UP PAINT AS NECESSARY, WITH PAINT COVERAGE TO EXTEND TO NEXT WALL BREAK. SEE DETAIL (3) (A-120)



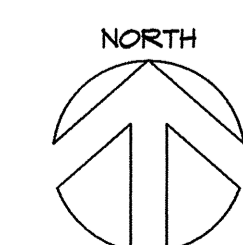
2 PARTIAL THIRD FLOOR PLAN
SCALE: 1/8" = 1'-0"



3 PARTIAL ROOF PLAN
SCALE: 1/8" = 1'-0"



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



MECHANICAL LEGEND

PIPING

SYMBOL	ABBREV.	DESCRIPTION	SYMBOL	ABBREV.	DESCRIPTION
	F	FIRE SPRINKLER SUPPLY			PIPING UP
	AF	ANTI-FREEZE FIRE SPRINKLER SUPPLY			PIPING DOWN
	FDC	FIRE DEPARTMENT CONNECTION			SLOPE OF PIPE IN DECIMALS OF FEET
		SIDEWALL SPRINKLER HEAD			DRAIN VALVE
		DRY SIDEWALL SPRINKLER HEAD		BV	BALL VALVE
		PENDANT SPRINKLER HEAD		BF	BUTTERFLY VALVE
		UPRIGHT SPRINKLER HEAD			CHECK VALVE
		EXTENDED COVERAGE PENDANT SPRINKLER HEAD		GV	GATE VALVE
		EXTENDED COVERAGE UPRIGHT SPRINKLER HEAD			PRESSURE GAUGE
	D	DRAIN			WATER FLOW SWITCH (OAFS)
	CW	POTABLE COLD WATER			DOUBLE CHECK BACKFLOW PREVENTER
	W	SANITARY WASTE			REDUCED PRESSURE BACKFLOW PREVENTER
	V	VENT		SDC	CEILING SUPPLY DIFFUSER
				EGC	CEILING EXHAUST GRILLE

GENERAL

SYMBOL	ABBREVIATION	DESCRIPTION
	(E)	EXISTING
	φ OR dial	DIAMETER
		NEW TO EXISTING POINT OF CONNECTION
	2 M-122 M-501	PLAN OR DETAIL REFERENCE MARKER
	A M-401	SECTION REFERENCE MARKER
	DEF 2	EQUIPMENT TYPE, EQUIPMENT NUMBER
	208	EQUIPMENT MARKER
		ROOM NUMBER
		EXISTING SHOWN LIGHT
		NEW WORK SHOWN BOLD
		EXISTING TO BE REMOVED

ABBREVIATIONS

ACH	AIR CHANGES PER HOUR	IN WC	INCHES WATER COLUMN
AFF	ABOVE FINISHED FLOOR	IPLV	INTEGRATED PART LOAD VALUE
AFS	AUTOMATIC FIRE SPRINKLER	IW	INDIRECT WASTE
AL	ALUMINUM	LAT	LEAVING AIR TEMPERATURE
ALT	ALTERNATE	LBS	POUNDS
APD	AIR PRESSURE DROP	LWT	LEAVING WATER TEMPERATURE
BAS	BUILDING AUTOMATION SYSTEM	Ma	MILLIAMPERE
BHP	BRAKE HORSEPOWER	MAX	MAXIMUM
BOD	BOTTOM OF DUCT	MBH	THOUSAND BTUs per HOUR
BTUH	BRITISH THERMAL UNITS PER HOUR	MCA	MINIMUM CIRCUIT AMPS
CFH	CUBIC FEET per HOUR	MFR	MANUFACTURER
CFM	CUBIC FEET per MINUTE	MIN	MINIMUM
CMU	CONCRETE MASONRY UNIT	MOP	MAX. OVERCURRENT PROTECTION
CONC	CONCRETE	NC	NOISE CRITERIA
CONT	CONTINUATION	NC	NORMALLY CLOSED
DB	DRY BULB	NIC	NOT IN CONTRACT
DBa	DECIBELS ACOUSTIC	NO	NORMALLY OPEN
DN	DOWN	NPLV	NON-STANDARD PART LOAD VALUE
DP	DIFFERENTIAL PRESSURE	NPSH	NET POSITIVE SUCTION HEAD
EAT	ENTERING AIR TEMPERATURE	OFCL	OWNER FURNISHED/ CONTRACTOR INSTALLED
EER	ENERGY EFFICIENCY RATIO	PD	PRESSURE DROP
EFF	EFFICIENCY	PH	PHASE
ESP	EXTERNAL STATIC PRESSURE	PPH	POUNDS per HOUR
EWT	ENTERING WATER TEMPERATURE	PSI	POUNDS per SQUARE INCH
FLA	FULL LOAD AMPS	PSIG	POUNDS per SQUARE INCH GAUGE
FPM	FEET PER MINUTE	REQ'D	REQUIRED
FT	FEET	RF	RETURN FAN
FT WC	FEET WATER COLUMN	RH	RELATIVE HUMIDITY
FUT	FUTURE	RPM	REVOLUTIONS per MINUTE
GPH	GALLONS PER HOUR	SEER	SEASONAL ENERGY EFFICIENCY RATIO
GPM	GALLONS PER MINUTE	SF	SUPPLY FAN
GYP BD	GYPSON WALL BOARD	SS	STAINLESS STEEL
HP	HORSEPOWER	STL	STEEL
HSPF	HEATING SEASONAL PERFORMANCE FACTOR	TSP	TOTAL STATIC PRESSURE
HVAC	HEATING, VENTILATING, & AIR CONDITIONING	TYP	TYPICAL
HZ	HERTZ (CYCLES PER SECOND)	VFD	VARIABLE FREQUENCY DRIVE
IAQ	INDOOR AIR QUALITY	WB	WET BULB
IE	INVERT ELEVATION	WC	WATER COLUMN
IN	INCHES	WG	WATER GAUGE

GENERAL NOTES

- SIZE AND LOCATION OF ALL EXISTING PIPING AND OTHER MECHANICAL EQUIPMENT IS APPROXIMATE. CONTRACTOR SHALL SITE VERIFY THE EXACT LOCATION OF EXISTING AND CONSTRUCT ALL WORK FROM FIELD DIMENSIONS. CONTRACTOR SHALL MAKE ALL ADJUSTMENTS NECESSARY TO ACCOMMODATE MINOR DEVIATIONS AT NO COST TO OWNER.
- FINE (LIGHT) LINE WORK INDICATES EXISTING PIPING AND OTHER MECHANICAL EQUIPMENT. BOLD (HEAVY) LINE WORK INDICATES NEW PIPING AND OTHER MECHANICAL EQUIPMENT.



4111 High Street
Eugene, Oregon 97401-2427
541-342-7210
systemswestengineers.com



FIRE PROTECTION

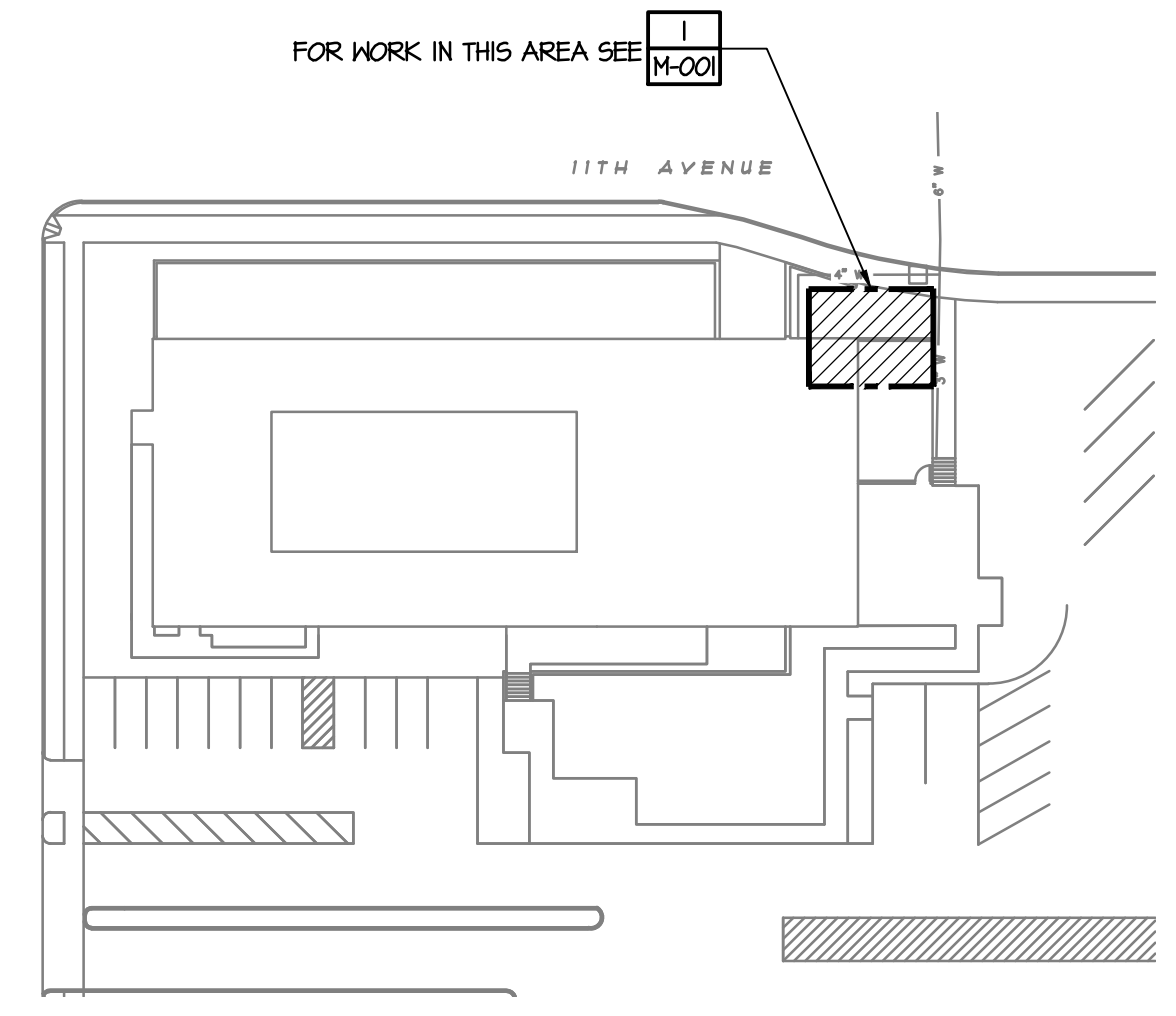
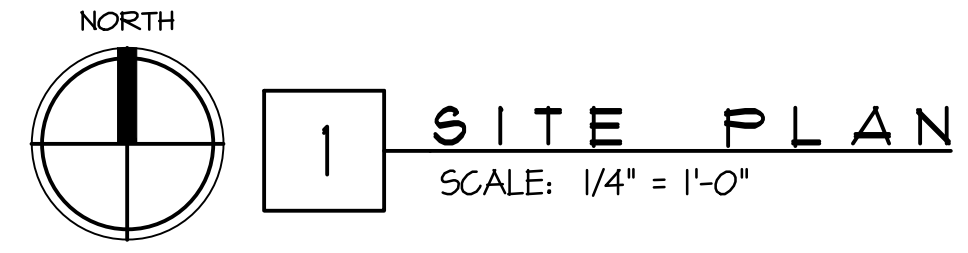
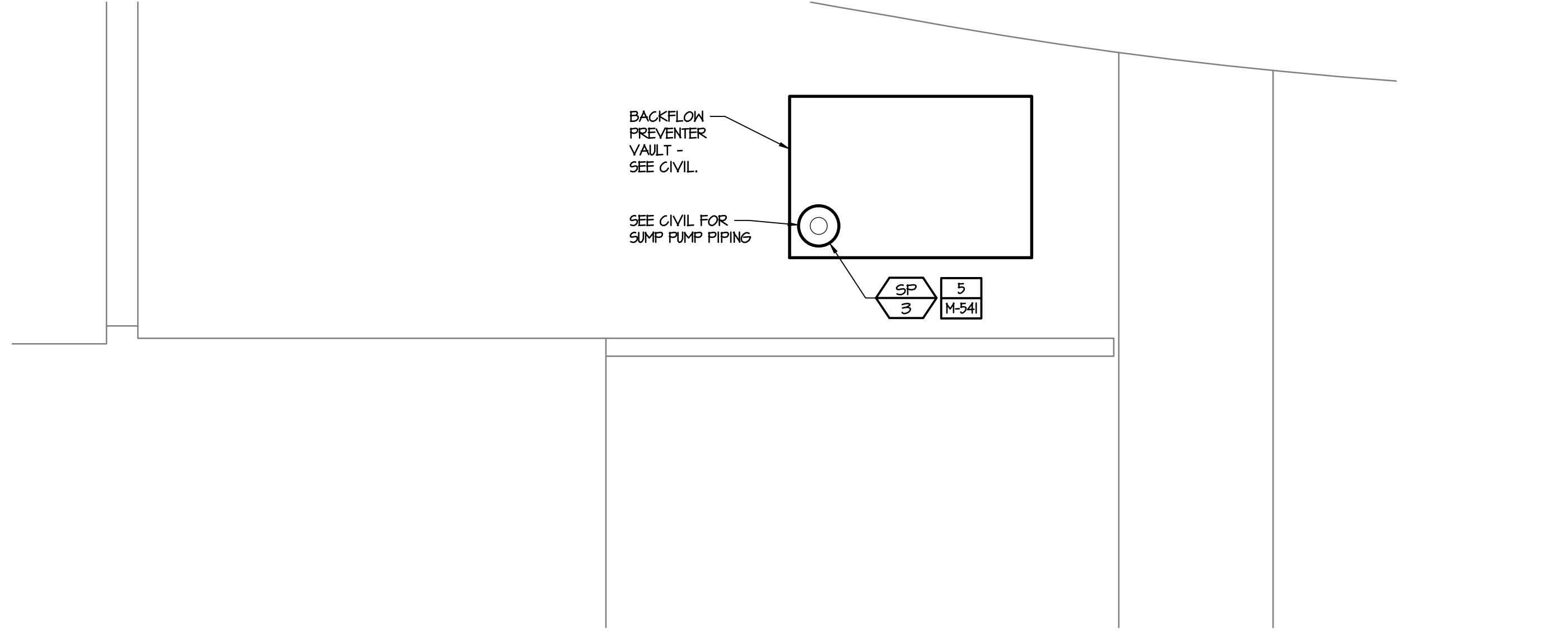
PUMP SCHEDULE (SP)

TAG No.	MANUFACTURER & MODEL No.	SERVICE	TYPE	FLOW (GPM)	TOTAL HEAD (FT)	MIN EFF (%)	BHP	NPSH (FT)	MOTOR				REMARKS
									VOLTS	PHASE	RPM	HP	
SP-3	WEIL 1409	SUMP	SUBMERSIBLE	15	10	--	--	--	115	1	1750	1/3	

FIRE PROTECTION SCHEDULE

ZONE	FLOOR	FLOOR AREA (SF)	ZONE FLOOR AREA TOTALS (SF)	REMARKS
1	BASEMENT	5,100	5,100	
2	FIRST	8,850	8,850	
3	FIRST	1,500	1,950	FREEZE PROTECTED
		450		
4	SECOND	11,500	11,500	
5	THIRD	11,500		
	ROOF/PENTHOUSE	350	11,850	

NOTES: FLOOR AREA VALUES ARE APPROXIMATE. VERIFY.



KEY PLAN
NOT TO SCALE

RILEY RESIDENCE HALL

LOCATION:
650 East 11th Avenue
Eugene, OR 97401

OWNER:
University of Oregon
Housing

LEGEND,
SCHEDULES
& SITE PLAN

MARK	DATE	DESCRIPTION
DESIGNED	PEF	
DRAWN	KMG	
CHECKED	GNL	
FILENAME	M-001_L65HSP	

DATE 09MAY2014
PROJECT PO10.01

M-001

SHEET NOTES:

1. REMOVE AND REPLACE EXISTING SPRINKLER HEADS THROUGHOUT BASEMENT WITH NEW QUICK RESPONSE TYPE HEADS.
2. FULL EXTENT OF EXISTING DUCTWORK AND PIPING NOT SHOWN. VERIFY EXISTING CONDITIONS ON SITE.

REFERENCE NOTES:

- ① REMOVE EXISTING FIRE SPRINKLER PIPING CONNECTIONS THROUGH ELEVATOR SHAFT WALL. CAP AT ACTIVE MAIN.
- ② FIRE SPRINKLER RISER. SEE 1/M-541.
- ③ BASEMENT ZONE CONTROL ASSEMBLY. SEE 3/M-541
- ④ INSTALL MECHANICAL SEAL ON FIRE SERVICE AND DRAIN PIPES THROUGH EXISTING WALL OPENINGS. ENLARGE OPENINGS AS REQUIRED.
- ⑤ PIPE ROUTING ELEVATION APPROXIMATELY 10'-6" ABOVE FINISH FLOOR. COORDINATE WITH EXISTING PIPING AND LIGHTS.



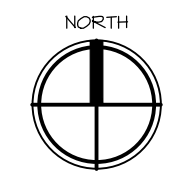
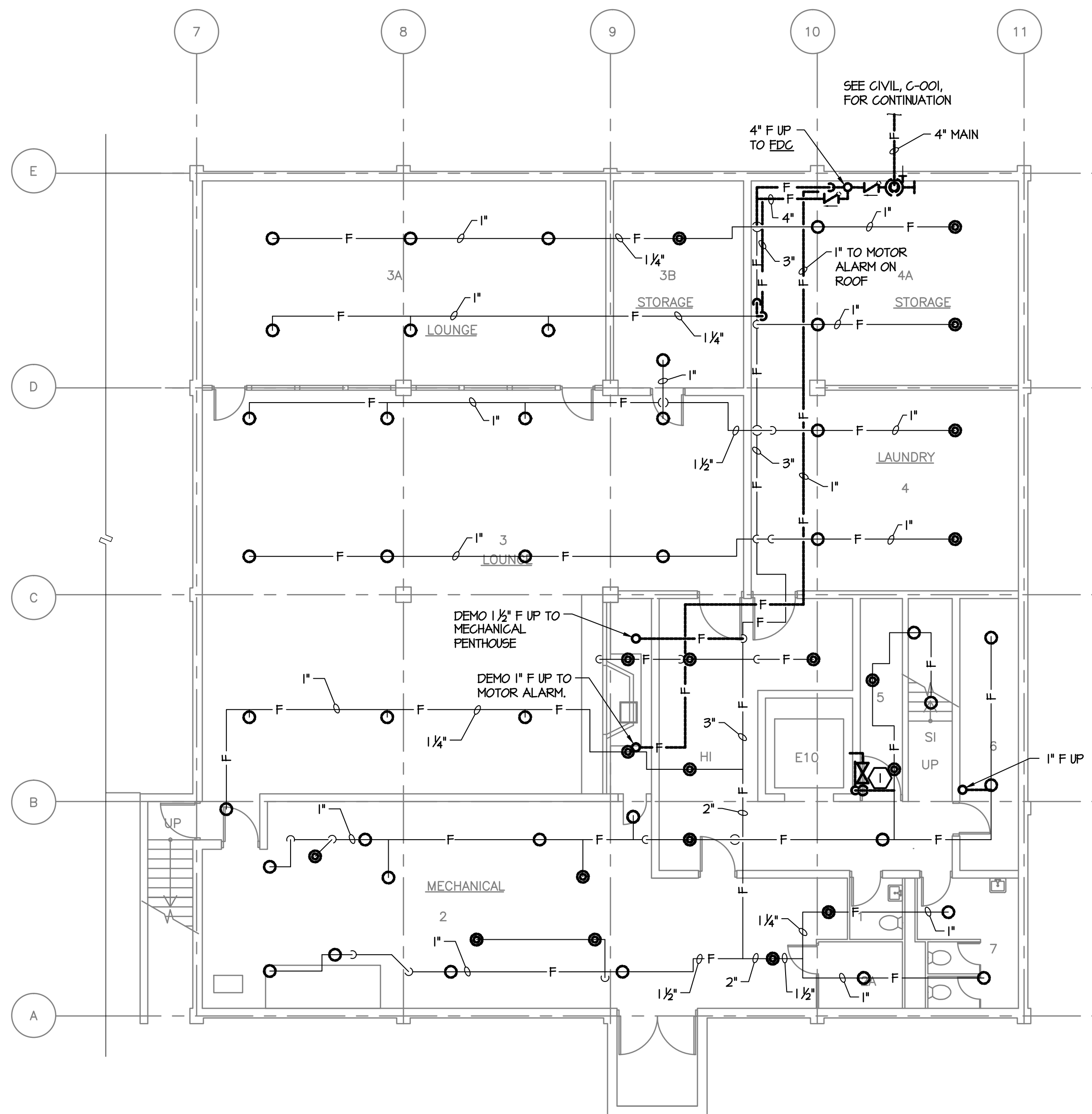
FIRE PROTECTION

RILEY RESIDENCE HALL

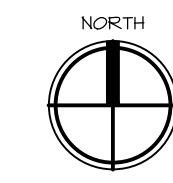
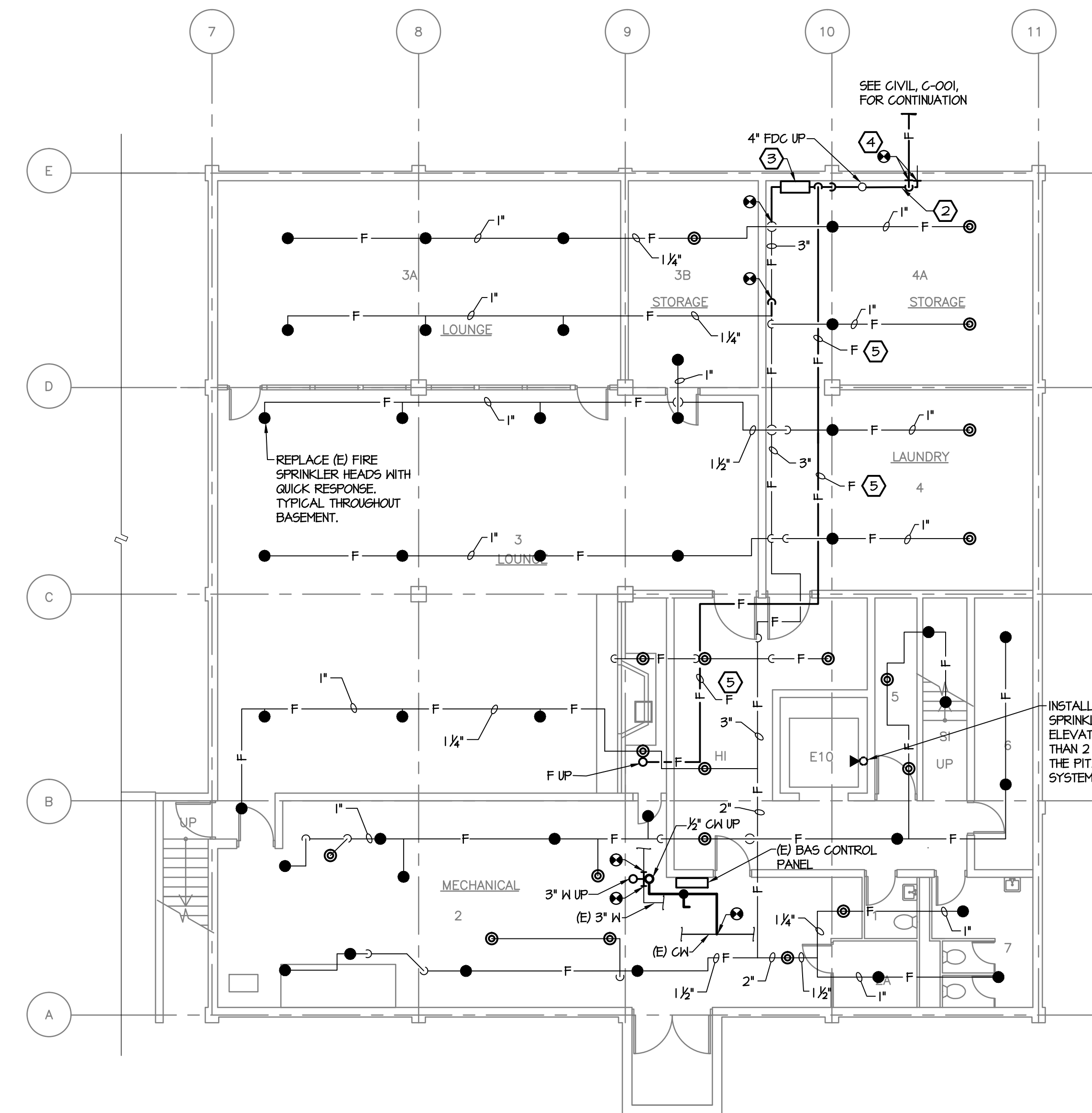
LOCATION:
650 East 11th Avenue
Eugene, OR 97401

OWNER:
University of Oregon
Housing

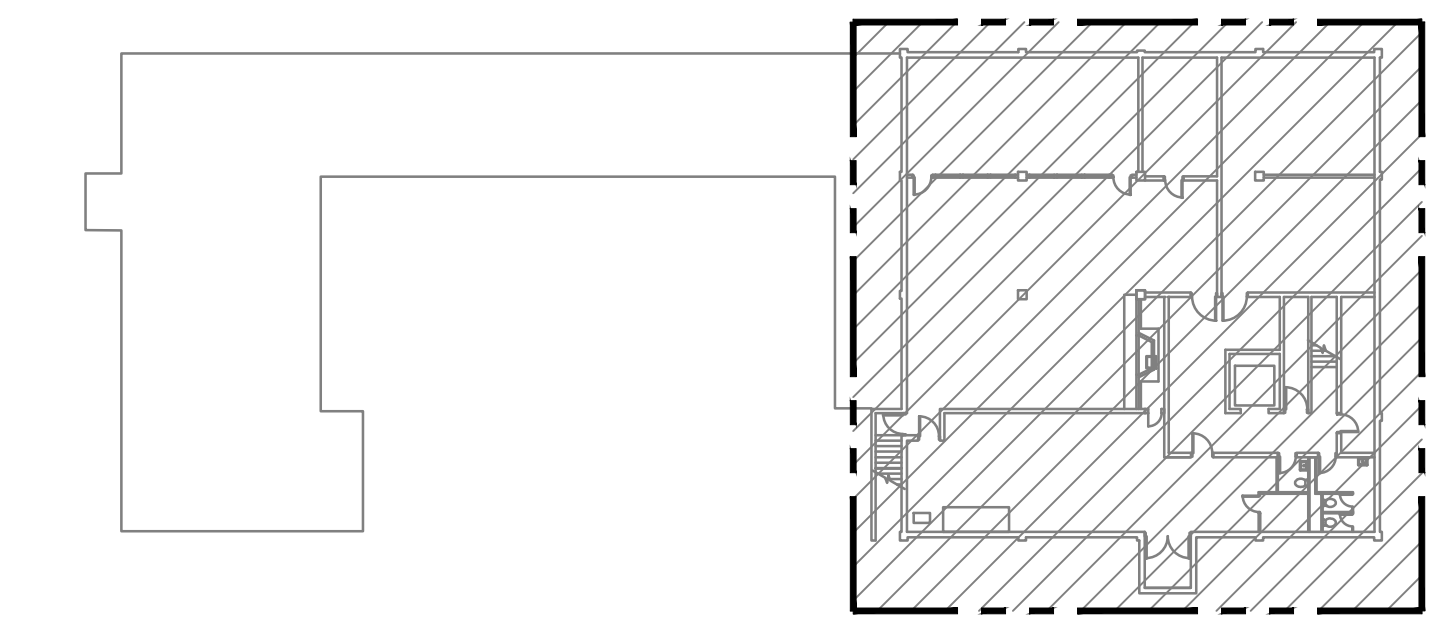
FIRE PROTECTION PLANS - BASEMENT



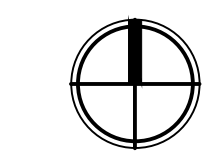
1 FIRE PROTECTION DEMOLITION PLAN - BASEMENT
SCALE: 1/8" = 1'-0"



2 FIRE PROTECTION PLAN - BASEMENT
SCALE: 1/8" = 1'-0"

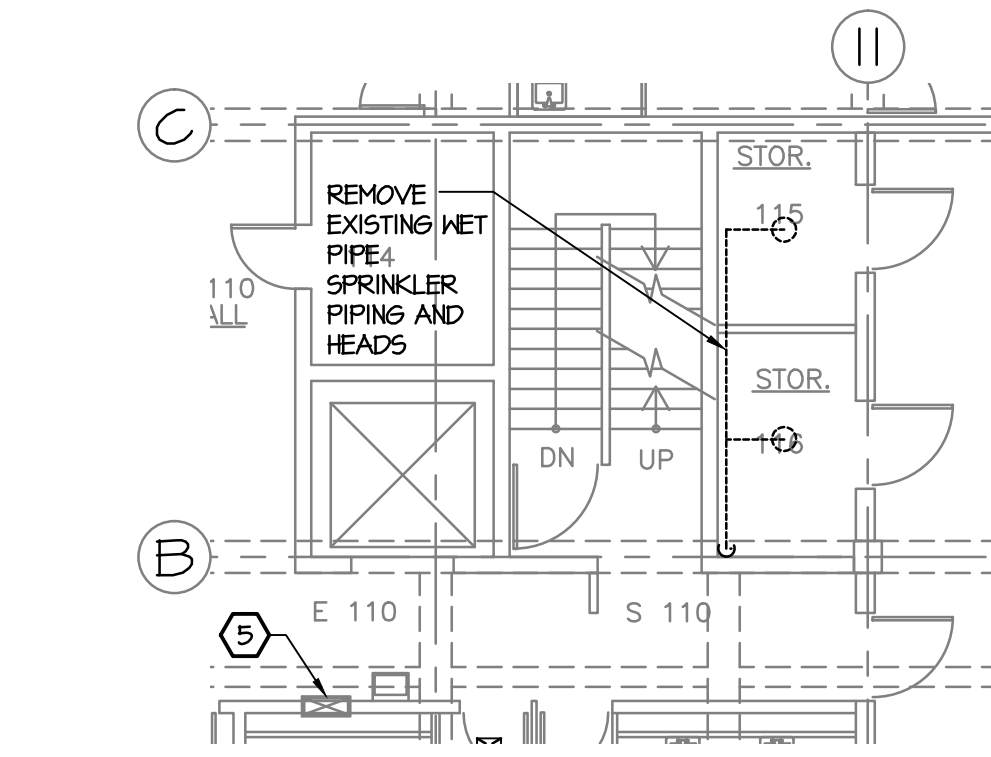


KEY PLAN
NOT TO SCALE

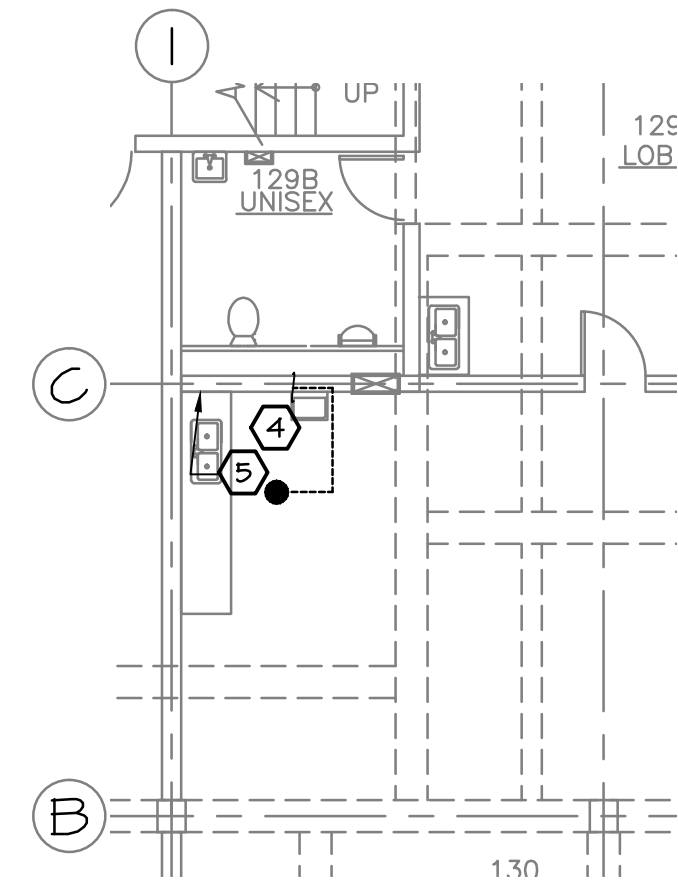


MARK	DATE	DESCRIPTION
DESIGNED	SGS/PEF	
DRAWN	KMG	
CHECKED	GNL	
FILENAME	M-140_FFPRPB	
DATE	09MAY2014	
PROJECT	PO10.01	

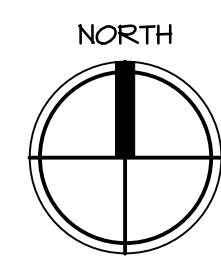
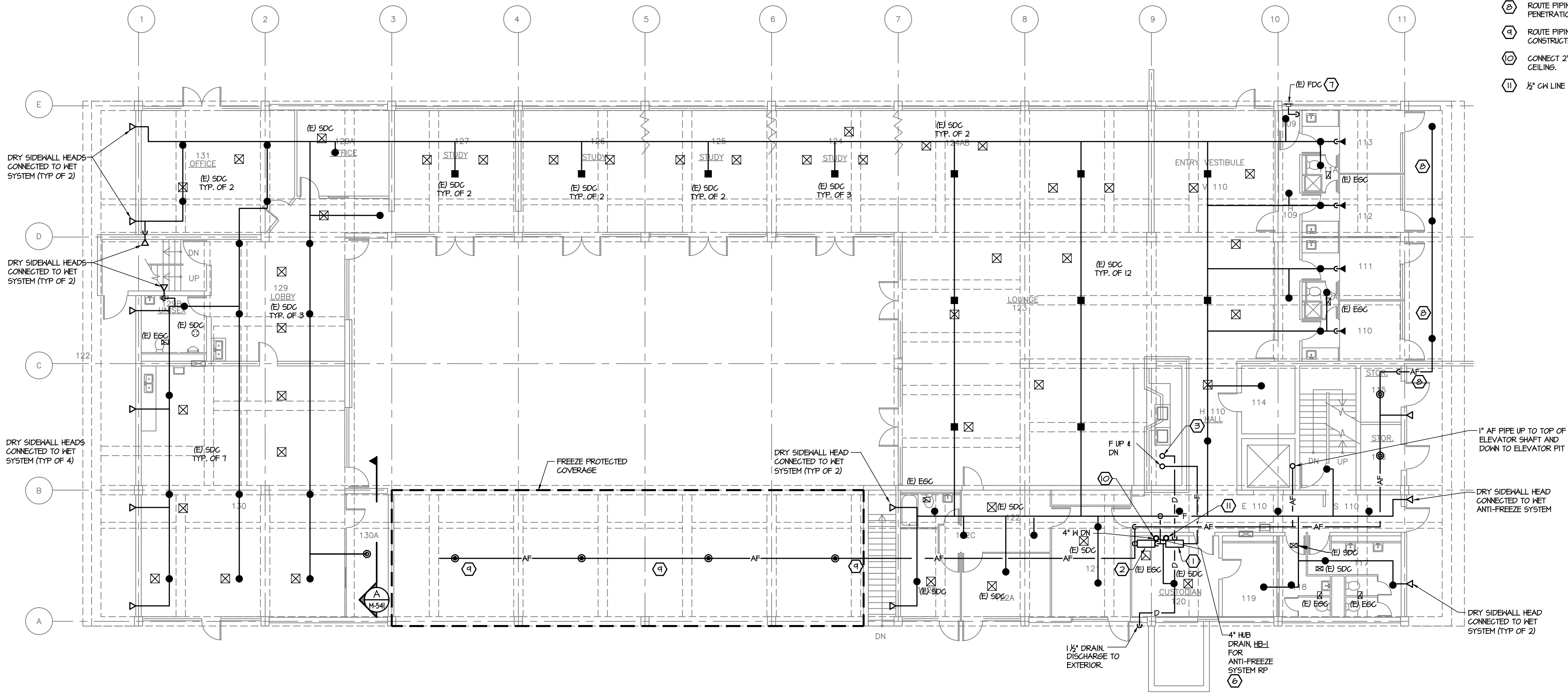
M-140



**PARTIAL 1ST FLOOR
FIRE PROTECTION
DEMOLITION PLAN**
SCALE: 1/8" = 1'-0"



**PARTIAL 1ST FLOOR
FIRE PROTECTION
DEMOLITION PLAN**
SCALE: 1/8" = 1'-0"



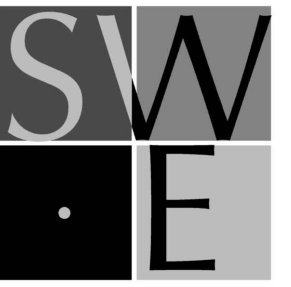
1 FIRE PROTECTION PLAN - FIRST FLOOR
SCALE: 1/8" = 1'-0"

SHEET NOTES:

1. FULL EXTENT OF EXISTING DUCTWORK AND PIPING NOT SHOWN. VERIFY EXISTING CONDITIONS ON SITE.
2. SEE ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLANS.
3. REMOVE AND REINSTALL EXISTING HVAC GRILLES AND DIFFUSERS AS REQUIRED FOR CEILING DEMOLITION AND REPLACEMENT. LOCATIONS SHOWN ARE APPROXIMATE. VERIFY EXACT LOCATIONS IN FIELD.
4. EXISTING OVERHEAD STRUCTURE DEPICTED ON FLOOR PLAN FOR CONTRACTOR REFERENCE. VERIFY FIELD CONDITIONS FOR DETERMINING EXACT LOCATIONS WHERE STRUCTURAL PENETRATIONS ARE REQUIRED FOR FIRE SPRINKLER.
5. SEE SECTION A-M-54I FOR TYPICAL SPRINKLER MAIN ELEVATION FOR FLOOR LEVEL. COORDINATE WITH EXISTING PIPING AND DUCTWORK IN CEILING SPACE.

REFERENCE NOTES:

- ① FIRST FLOOR ZONE CONTROL ASSEMBLY. SEE 3/M-54I.
- ② ANTI-FREEZE FILL AND DRAIN VALVES. SEE 2/M-54I.
- ③ 1 1/2" DRAIN FROM ABOVE
- ④ REMOVE EXISTING DOUBLE CHECK VALVE ASSEMBLY, PIPING, AND SPRINKLER HEAD. GAP AT ACTIVE MAIN.
- ⑤ REMOVE VALVE FROM PREVIOUSLY ABANDONED FIRE HOSE CABINET, AND GAP AT ACTIVE MAIN.
- ⑥ EXISTING, ACTIVE RADIANT FLOOR PIPING IN FIRST FLOOR SLAB. VERIFY PIPING LOCATION PRIOR TO LOCATING AND MAKING PENETRATION, TO PREVENT PIPING DAMAGE.
- ⑦ INSTALL NEW ALARM BELL AND SIGNAGE ON WALL, APPROX. 8' ABOVE GRADE, ABOVE FDC.
- ⑧ ROUTE PIPING WITHIN STRUCTURAL BEAM SPACE, WITH BEAM PENETRATIONS WHERE REQUIRED.
- ⑨ ROUTE PIPING EXPOSED BELOW EXISTING STRUCTURE AND CONSTRUCTED CEILING.
- ⑩ CONNECT 2" V FROM HUB DRAIN TO EXISTING 2" VENT ABOVE CEILING.
- ⑪ 1/2" CH LINE FROM BELOW TO TRAP PRIMER ON WALL.



SYSTEMS WEST ENGINEERS, INC.
411 high street
eugene, oregon 97401-2427
541.342.7210
systemswestengineers.com



FIRE PROTECTION

**RILEY RESIDENCE
HALL**

LOCATION:
650 East 11th Avenue
Eugene, OR 97401

OWNER:
University of Oregon
Housing

**FIRE
PROTECTION
PLANS - FIRST
FLOOR**

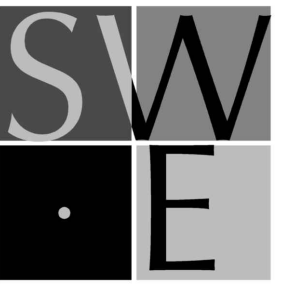
MARK DATE DESCRIPTION

DESIGNED SCS/PEF
DRAWN KMG
CHECKED GNL
FILENAME
M-141_FFPRP1

DATE 09MAY2014

PROJECT PO10.01

M-141



SHEET NOTES:

1. FULL EXTENT OF EXISTING DUCTWORK AND PIPING NOT SHOWN. VERIFY EXISTING CONDITIONS ON SITE.
2. SEE ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLANS.
3. REMOVE AND REINSTALL EXISTING HVAC GRILLES AND DIFFUSERS AS REQUIRED FOR CEILING DEMOLITION AND REPLACEMENT. LOCATIONS SHOWN ARE APPROXIMATE, VERIFY EXACT LOCATIONS IN FIELD.
4. TYPICAL FIRE SPRINKLER PIPE ROUTING WITHIN OVERHEAD STRUCTURAL BEAM SPACE, WITH CONCRETE WALL AND BEAM PENETRATIONS REQUIRED FOR INSTALLATION. VERIFY FIELD CONDITIONS FOR DETERMINING LOCATIONS WHERE STRUCTURAL PENETRATIONS ARE REQUIRED FOR FIRE SPRINKLER INSTALLATION. SEE SECTION A/M-541 FOR TYPICAL SPRINKLER MAIN ELEVATION FOR FLOOR LEVEL.
5. EXISTING OVERHEAD STRUCTURE DEPICTED ON FLOOR PLAN FOR CONTRACTOR REFERENCE.
6. SEE 4/M-541 FOR TYPICAL RESIDENCE ROOM SIDEWALL DETAIL.

REFERENCE NOTES:

- ① SECOND FLOOR ZONE CONTROL ASSEMBLY. SEE 3/M-541.
- ② 1/2" DRAIN UP & DOWN
- ③ REMOVE VALVE FROM PREVIOUSLY ABANDONED FIRE HOSE CABINET, AND CAP AT ACTIVE MAIN.
- ④ OFFSET PIPING AT BEAM FOR PENETRATION AWAY FROM INTERNAL STRUCTURAL REINFORCEMENT.



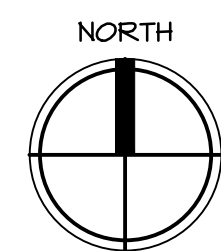
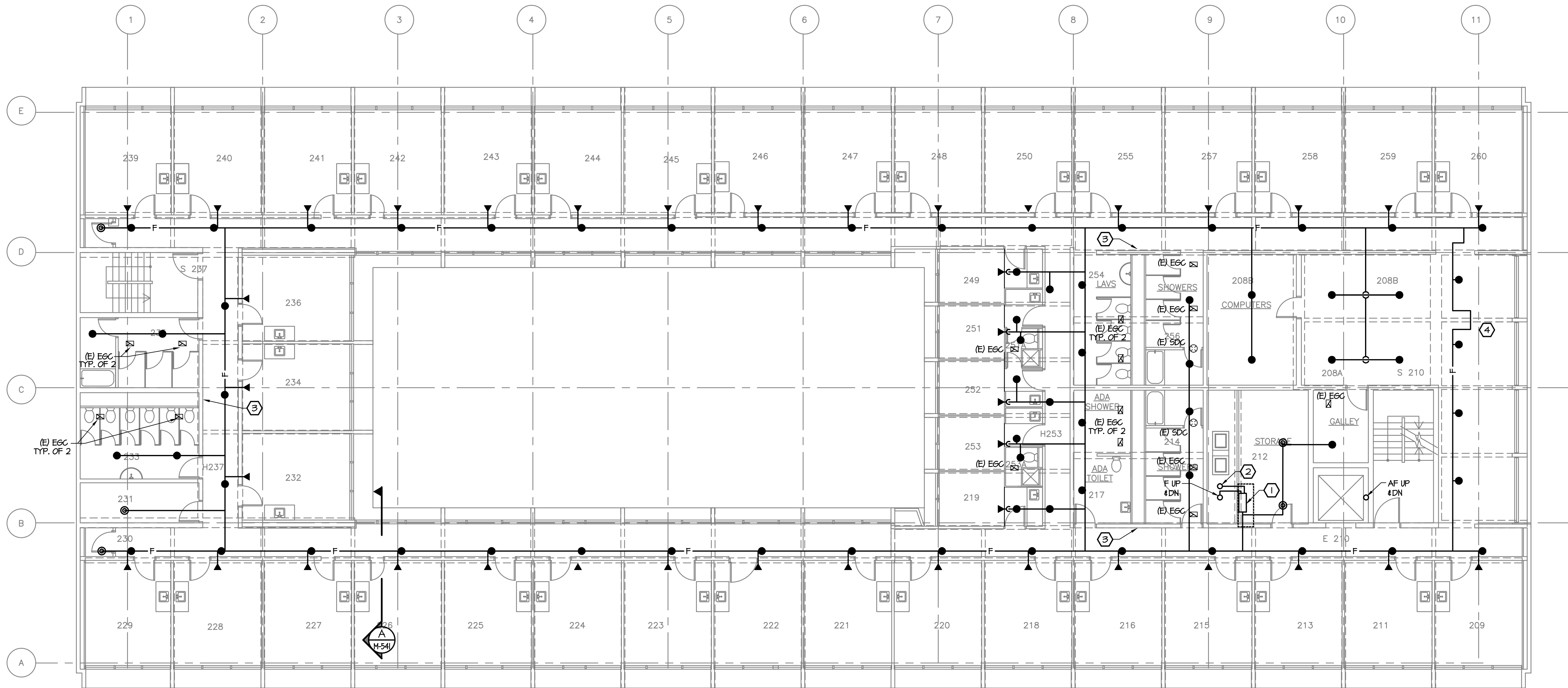
FIRE PROTECTION

RILEY RESIDENCE HALL

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Housing

FIRE PROTECTION PLAN - SECOND FLOOR



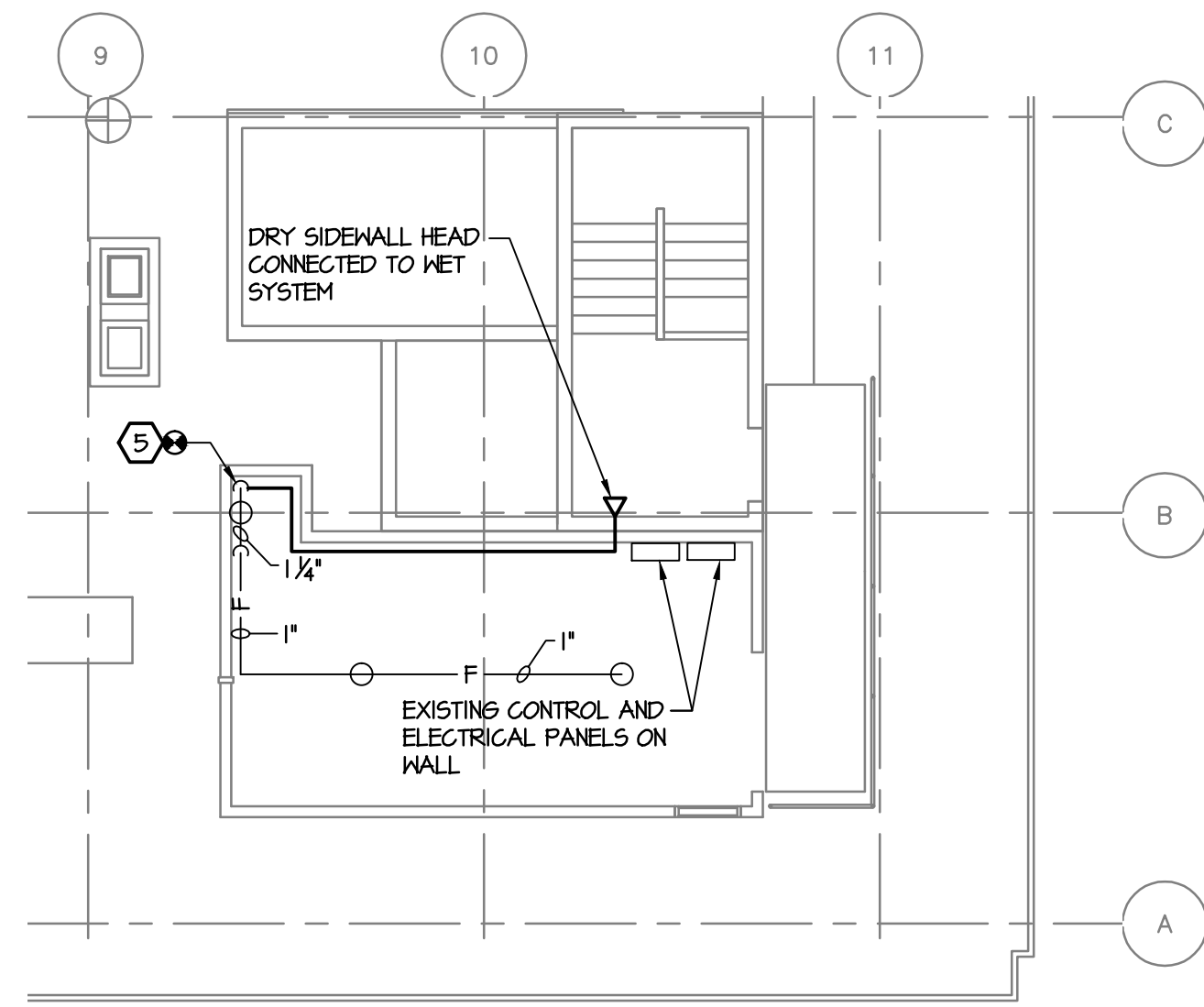
1 FIRE PROTECTION PLAN - SECOND FLOOR
SCALE: 1/8" = 1'-0"

MARK DATE DESCRIPTION

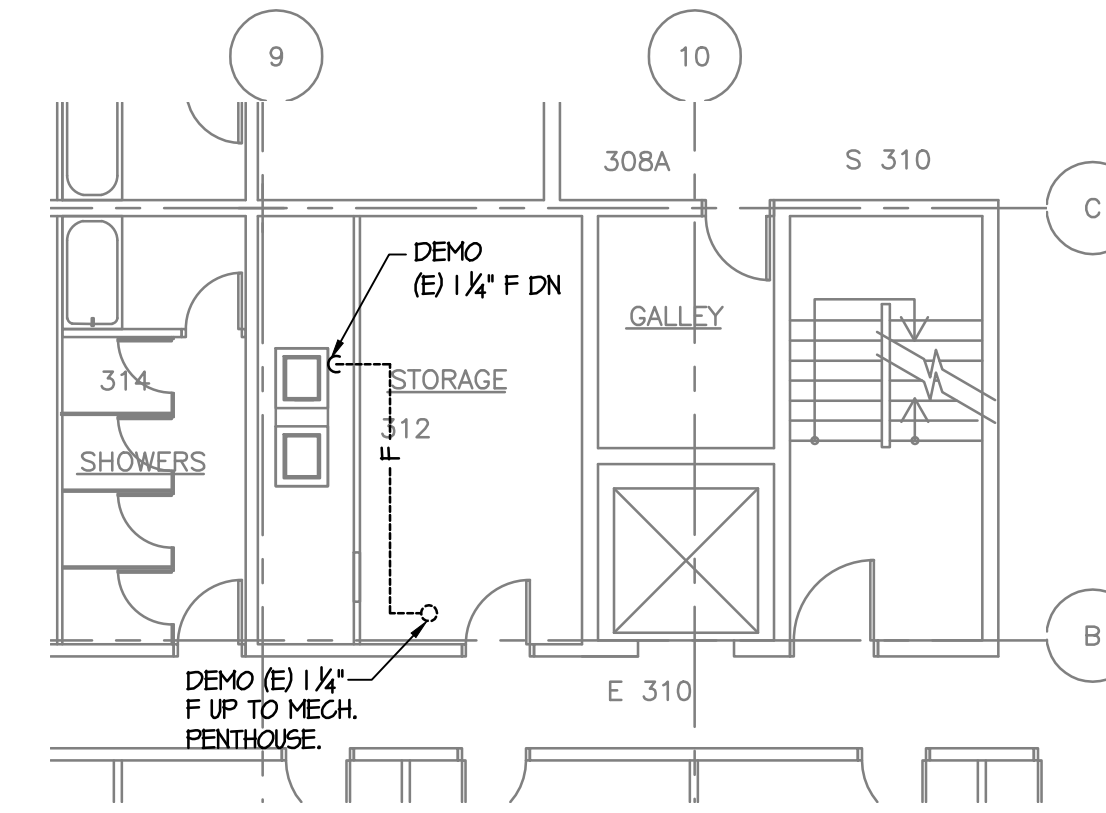
DESIGNED SCS/PEF
DRAWN KMG
CHECKED GNL
FILENAME M-142_FPRFP2

DATE 09MAY2014
PROJECT PO10.01

M-142



2 FIRE PROTECTION PLAN - PARTIAL ROOF
SCALE: 1/8" = 1'-0"



3 FIRE PROTECTION DEMOLITION PLAN - PARTIAL THIRD FLOOR
SCALE: 1/8" = 1'-0"

SHEET NOTES:

- FULL EXTENT OF EXISTING DUCTWORK AND PIPING NOT SHOWN. VERIFY EXISTING CONDITIONS ON SITE.
- SEE ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLANS.
- REMOVE AND REINSTALL EXISTING HVAC GRILLES AND DIFFUSERS AS REQUIRED FOR CEILING DEMOLITION AND REPLACEMENT. LOCATIONS SHOWN ARE APPROXIMATE, VERIFY EXACT LOCATIONS IN FIELD.
- TYPICAL FIRE SPRINKLER PIPE ROUTING WITHIN OVERHEAD STRUCTURAL BEAM SPACE, WITH CONCRETE WALL AND BEAM PENETRATIONS REQUIRED FOR INSTALLATION. VERIFY FIELD CONDITIONS FOR DETERMINING LOCATIONS WHERE STRUCTURAL PENETRATIONS ARE REQUIRED FOR FIRE SPRINKLER INSTALLATION. SEE SECTION AM-541 FOR TYPICAL SPRINKLER MAIN ELEVATION FOR FLOOR LEVEL.
- EXISTING OVERHEAD STRUCTURE DEPICTED ON FLOOR PLAN FOR CONTRACTOR REFERENCE.
- SEE 4M-541 FOR TYPICAL RESIDENCE ROOM SIDEWALL DETAIL.

REFERENCE NOTES:

- THIRD FLOOR ZONE CONTROL ASSEMBLY. SEE 3M-541.
- 1 1/2" F UP TO MECHANICAL PENTHOUSE
- 1 1/2" DRAIN DOWN
- REMOVE VALVE FROM PREVIOUSLY ABANDONED FIRE HOSE CABINET, AND GAP SUPPLY AT ACTIVE MAIN.
- CONNECT 1 1/2" F FROM BELOW TO (E) 1 1/4" F.
- OFFSET PIPING AT BEAM FOR PENETRATION AWAY FROM INTERNAL STRUCTURAL REINFORCEMENT.



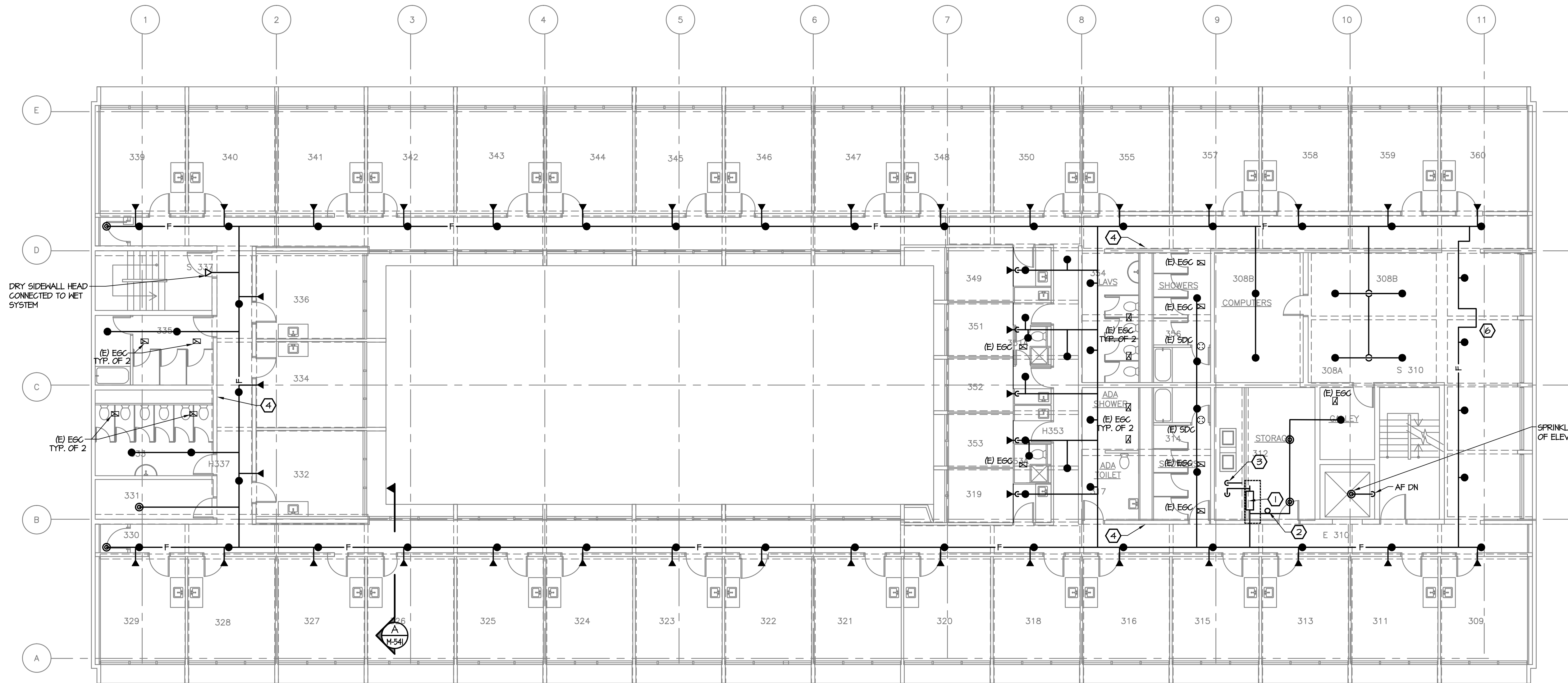
FIRE PROTECTION

RILEY RESIDENCE HALL

LOCATION:
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Eugene, OR 97401

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Housing

FIRE PROTECTION PLANS - THIRD FLOOR & PARTIAL ROOF



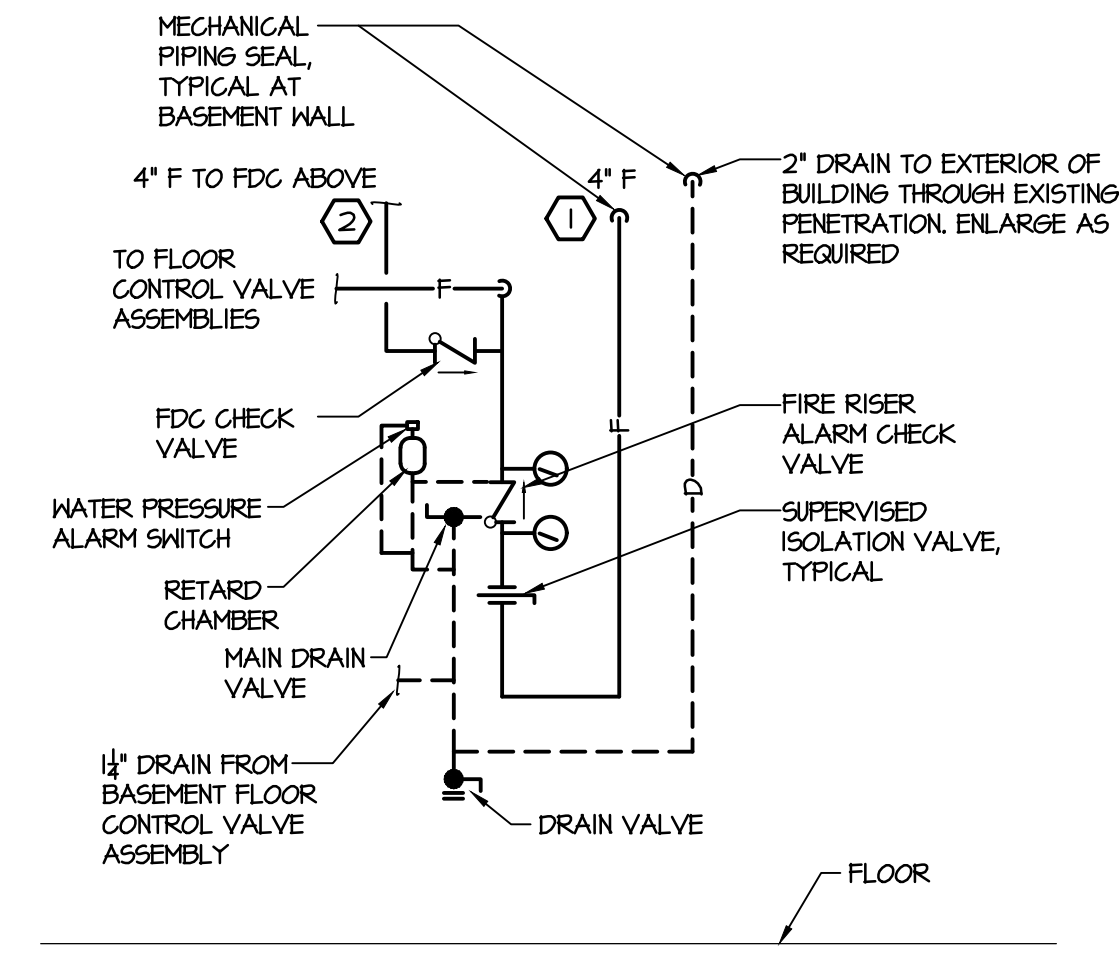
1 FIRE PROTECTION PLAN - THIRD FLOOR
SCALE: 1/8" = 1'-0"

MARK	DATE	DESCRIPTION

DESIGNED SCS/PEF
DRAWN KMG
CHECKED GNL
FILENAME M-143_FFPRP3R

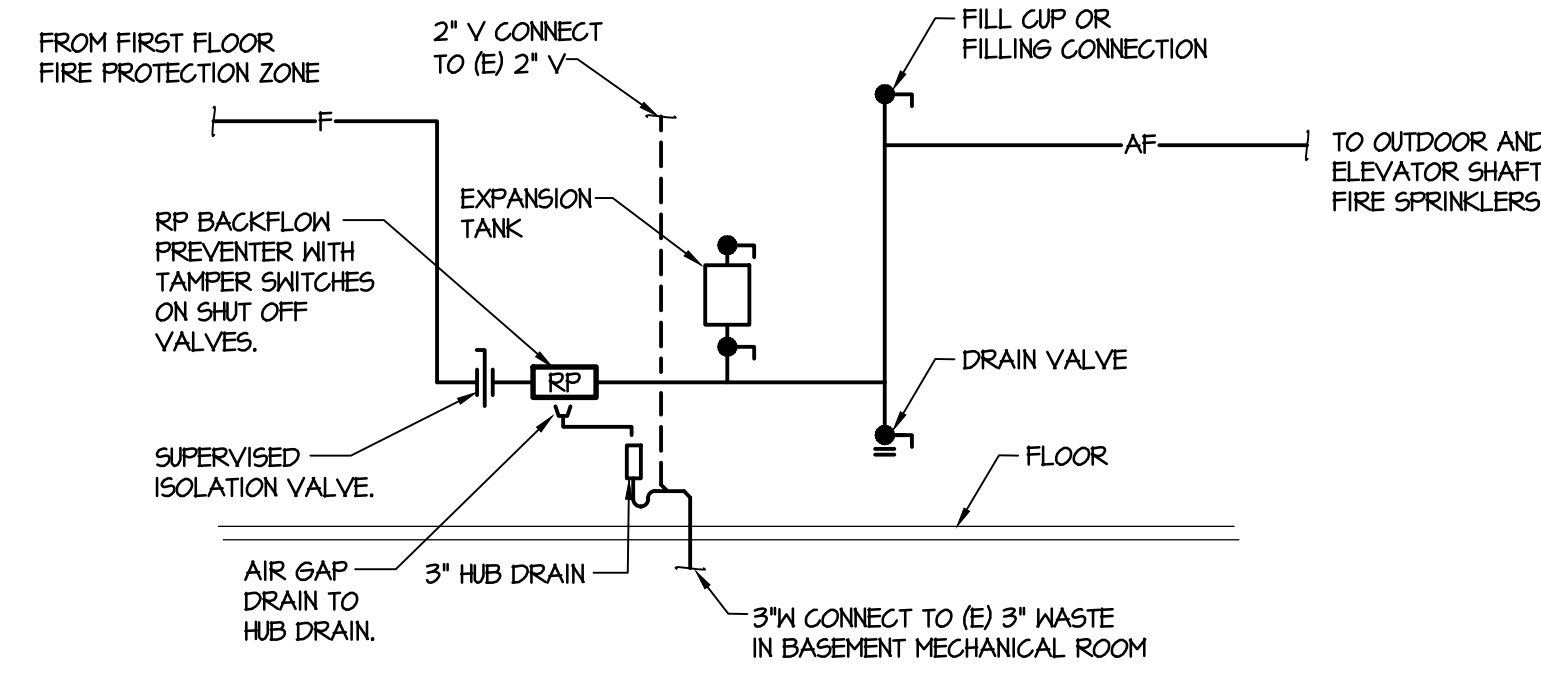
DATE 09MAY2014
PROJECT PO10.01

M-143



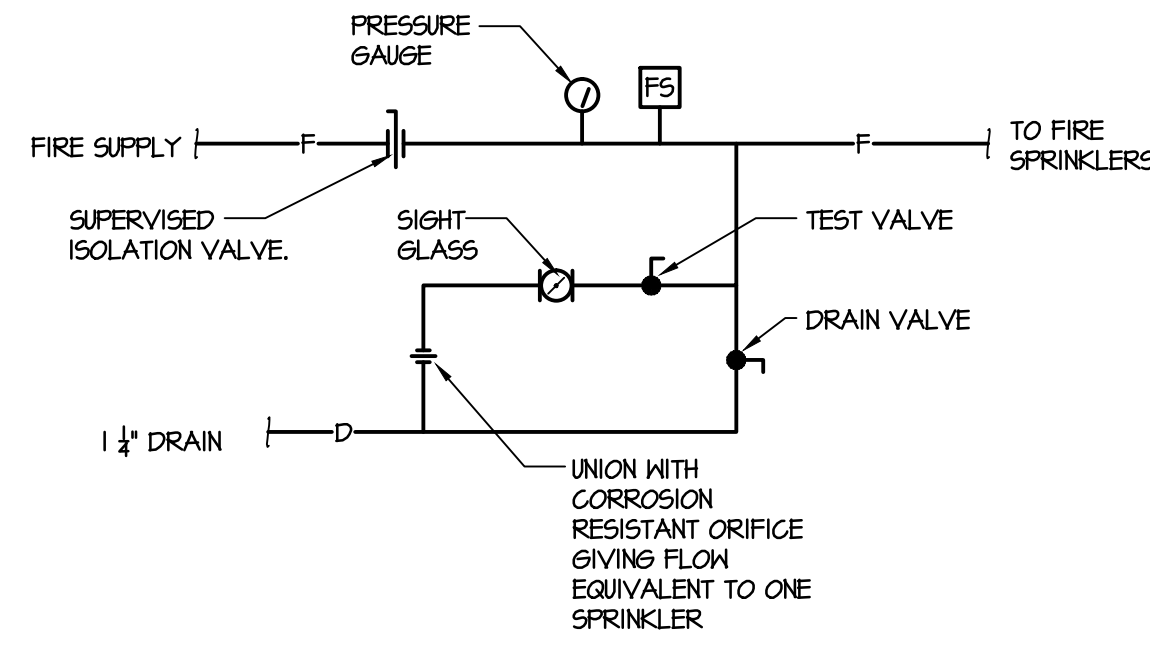
NOTES:
 ① SEE CIVIL DRAWINGS FOR DOUBLE CHECK DETECTOR VALVE ASSEMBLY.
 ② PROVIDE CONNECTION TO EXISTING THREADED 4" FDG PIPING.

1 RISER DIAGRAM
 NOT TO SCALE

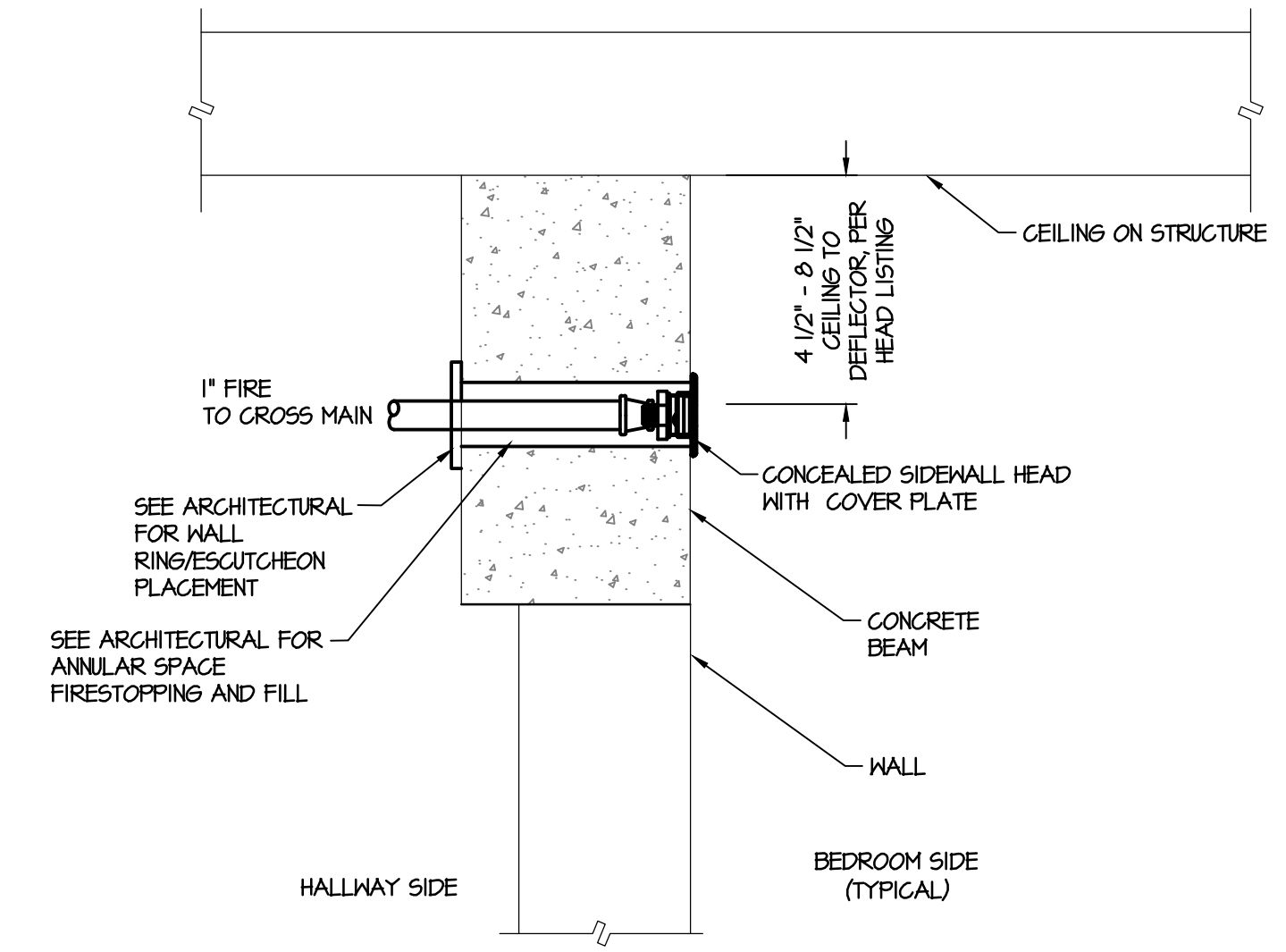


NOTE: INSTALL TRAP PRIMER VALVE ON WALL. CONNECT TO COLD WATER, AND PIPE TO HUB DRAIN TRAP

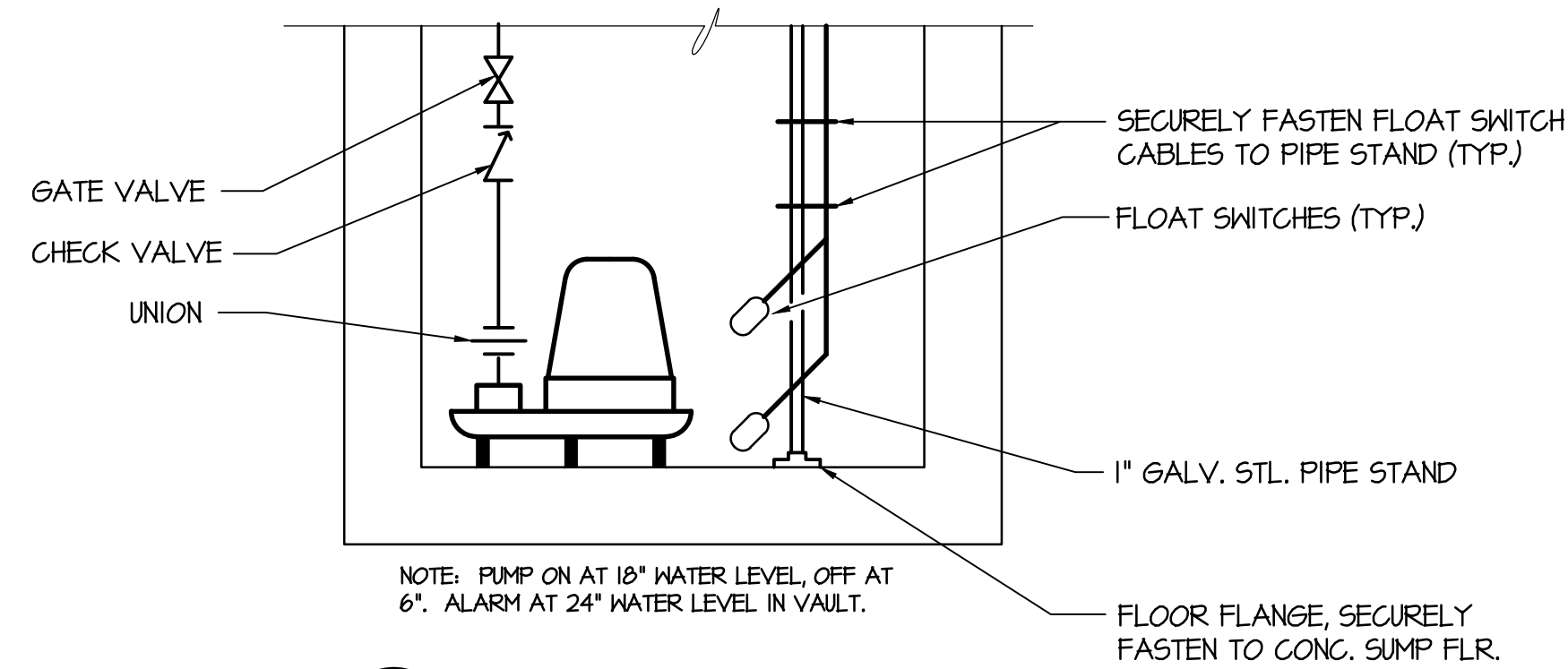
2 ANTI-FREEZE FILL DIAGRAM
 NOT TO SCALE



3 FLOOR CONTROL VALVE ASSEMBLY
 NOT TO SCALE

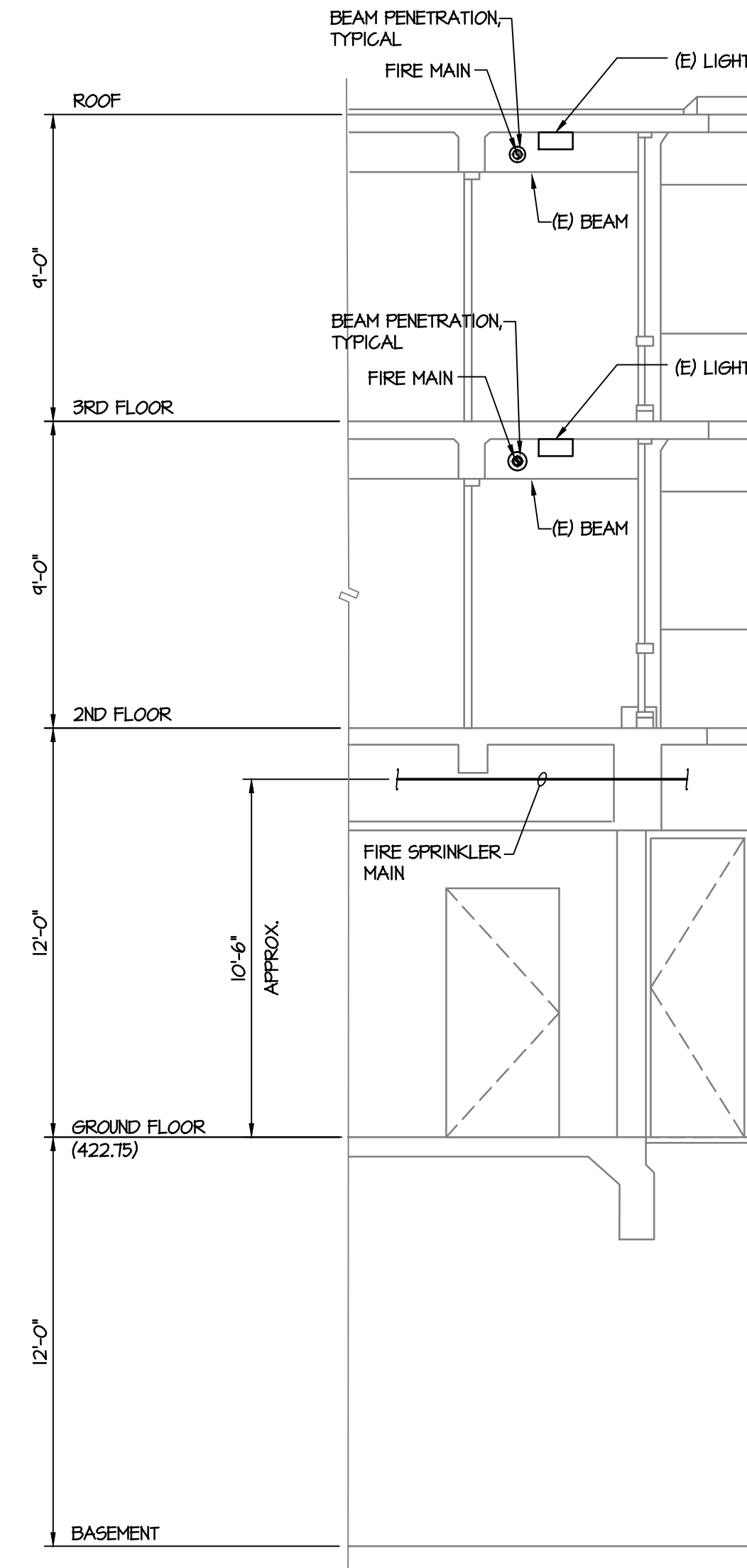


4 SIDEWALL HEAD THRU WALL DETAIL
 NOT TO SCALE

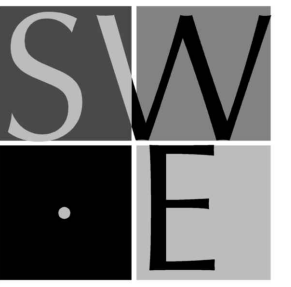


NOTE: PUMP ON AT 18" WATER LEVEL, OFF AT 6". ALARM AT 24" WATER LEVEL IN VAULT.

5 SUMP PUMP
 NOT TO SCALE



A SECTION
 NOT TO SCALE



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 Housing

DETAILS & SECTION

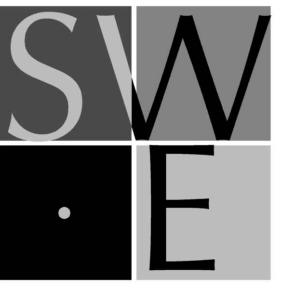
MARK	DATE	DESCRIPTION

DESIGNED PEF
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 CHECKED GNL
 FILENAME M-541_DT

DATE 09MAY2014
 PROJECT PO10.01

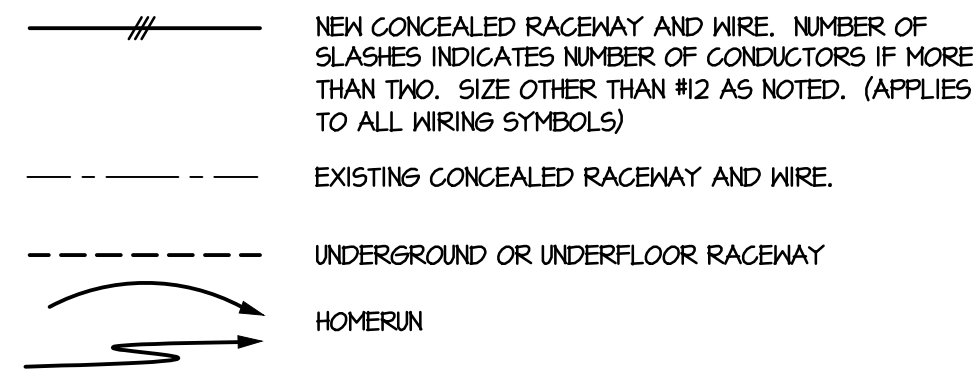
M-541

SYMBOLS AND ABBREVIATIONS LEGEND



SYSTEMS WEST ENGINEERS, INC.
411 high street
eugene, oregon 97401-2427
541-342-7210
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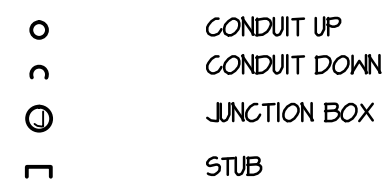
DIVISION 26 05 19: LOW-VOLTAGE ELECTRICAL CONDUCTORS & CABLES



DIVISION 26 05 26: GROUNDING & BONDING FOR ELECTRICAL SYSTEMS



DIVISION 26 05 33: RACEWAYS & BOXES FOR ELECTRICAL SYSTEMS



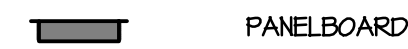
DIVISION 26 09 23: LIGHTING CONTROL EQUIPMENT



DIVISION 26 22 13: LOW-VOLTAGE DISTRIBUTION



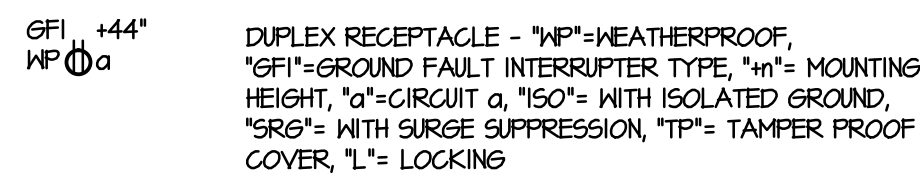
DIVISION 26 24 16: PANELBOARDS



DIVISION 26 27 16: ELECTRICAL CABINETS & ENCLOSURES



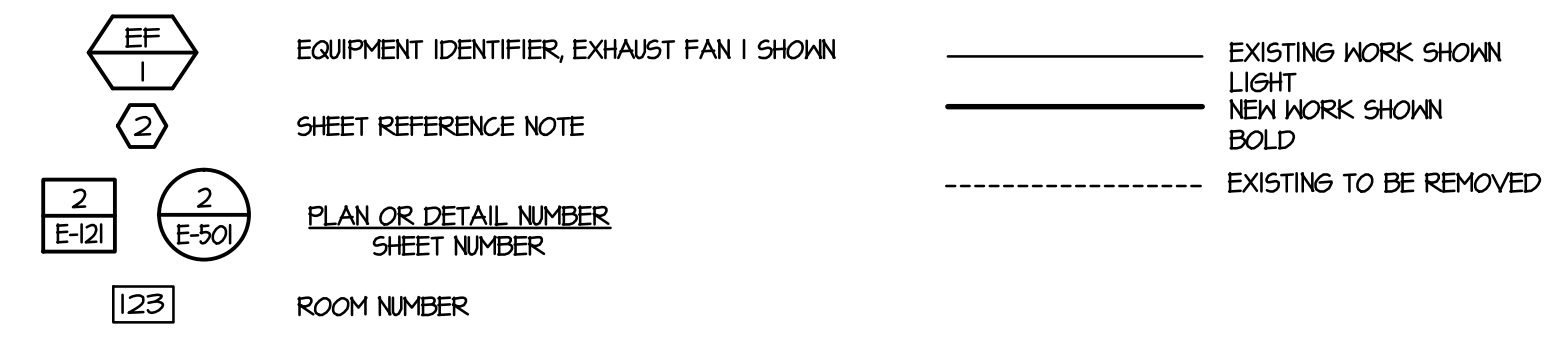
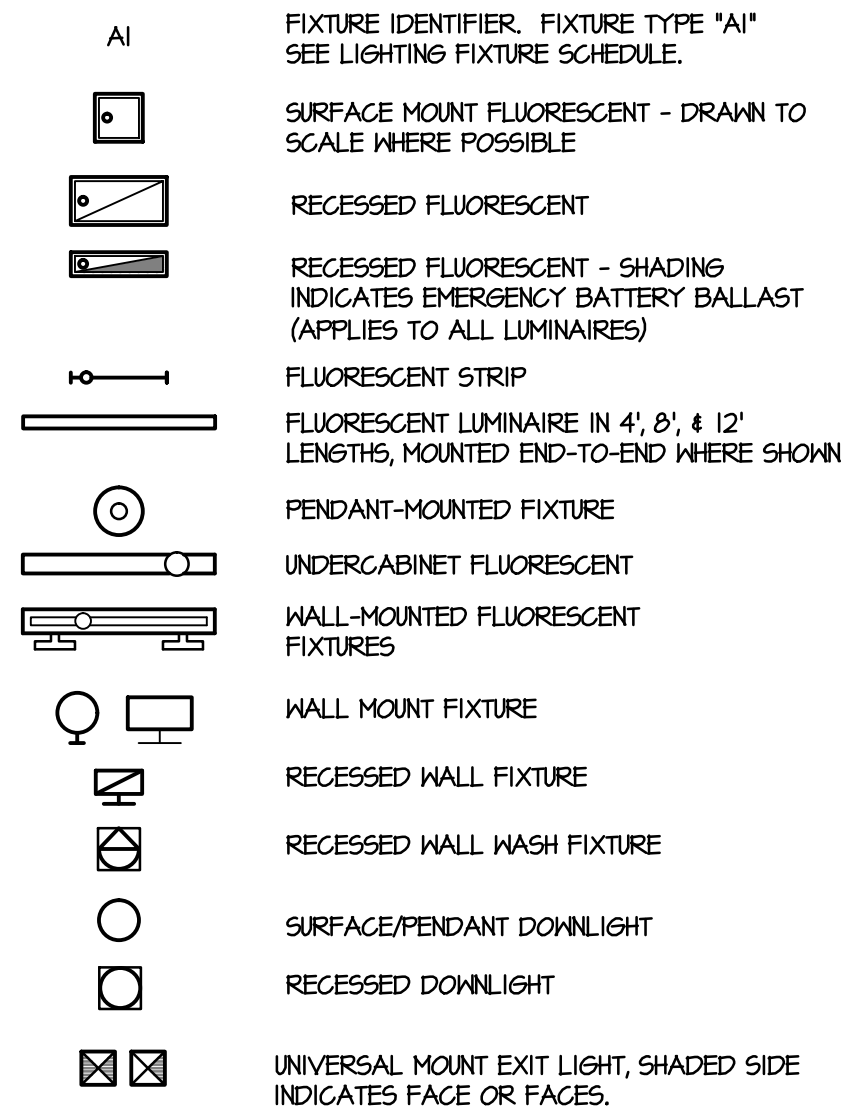
DIVISION 26 27 26: WIRING DEVICES



FIRE DETECTION & ALARM

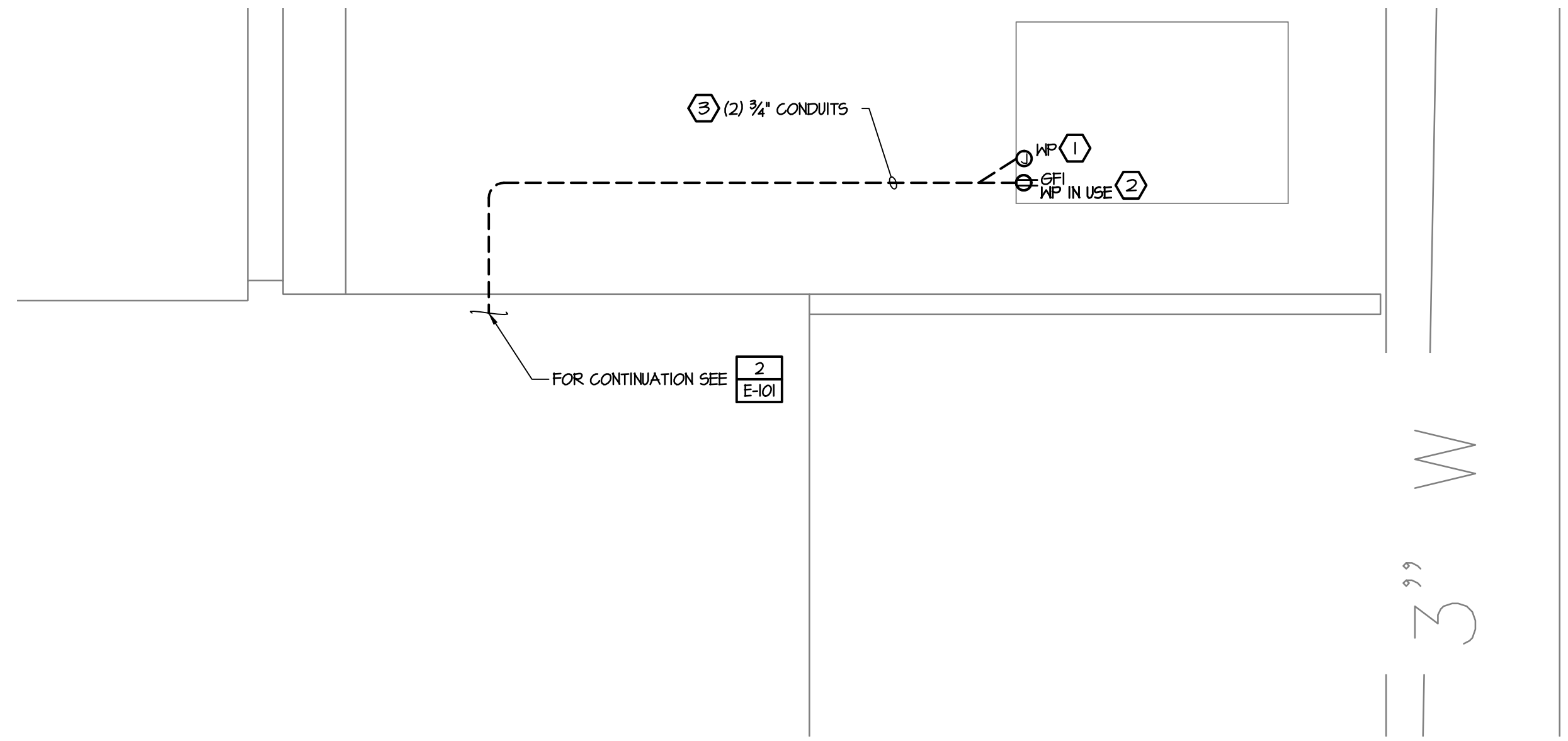


DIVISION 26 51 00: LIGHTING FIXTURES



ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	IDF	INTERMEDIATE DISTRIBUTION FRAME
BLDG	BLDG	L.V.	LOW VOLTAGE
C	CONDUIT	MDF	MAIN DISTRIBUTION FRAME
cd	CANDELA	MECH	MECHANICAL
GCT	CIRCUIT	(N)	NEW
DIM	0-10V DIMMING	PNL	PANEL
DSP	DIGITAL SIGNAL PROCESSOR	PRS	PROGRAM RAPID START
(E)	EXISTING	SHED	SWITCHBOARD
ELEC	ELECTRICAL	TTB	TELEPHONE TERMINAL BOARD
EMERG	EMERGENCY	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
FAM	FIRE ALARM MASTER	TYP	TYPICAL
GFI	GROUND FAULT INTERRUPTER	WG	WIREGUARD
END	GROUND	WP	WEATHERPROOF
HVAC	HEATING, VENTILATING, & AIR CONDITIONING		



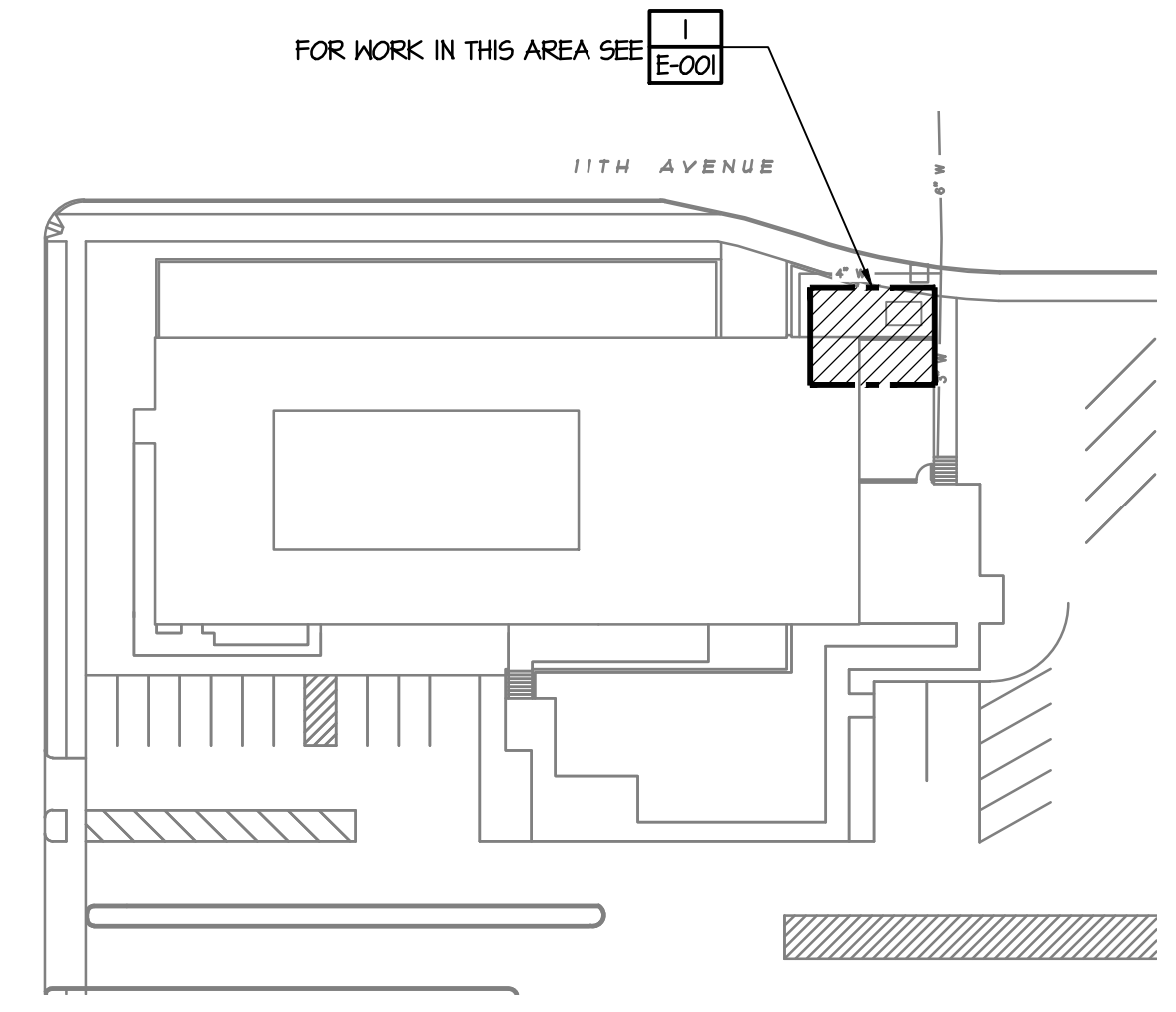
1 SITE PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. SIZE AND LOCATION OF ALL EXISTING ELECTRICAL EQUIPMENT IS APPROXIMATE. CONTRACTOR SHALL SITE VERIFY THE EXACT LOCATION OF EXISTING AND CONSTRUCT ALL WORK FROM FIELD DIMENSIONS. CONTRACTOR SHALL MAKE ADJUSTMENTS NECESSARY TO ACCOMMODATE MINOR DEVIATIONS AT NO COST TO OWNER.
2. LIGHT LINE WORK INDICATES EXISTING ELECTRICAL CIRCUITRY AND OTHER ELECTRICAL EQUIPMENT. DASHED LINE WORK INDICATES ELECTRICAL DEVICES AND EQUIPMENT TO BE REMOVED.
3. WHERE EXISTING EQUIPMENT IS REMOVED AND NOT REPLACED IN THE SAME LOCATION, PATCH AND PAINT SURFACES TO MATCH ORIGINAL CONDITION.
4. REMOVE ALL ABANDONED RACEWAY AND WIRING.
5. RECONNECT ALL CIRCUITRY TO REMAINING DEVICES AND EQUIPMENT.
6. PROVIDE BLANK FACE PLATES FOR ALL SWITCHES AND COMMUNICATIONS/DATA BEING REMOVED.
7. WHERE ALL LOAD IS REMOVED FROM A BREAKER PROVIDE NEW TYPED PANEL SCHEDULE IDENTIFYING BREAKER AS "SPARE"
8. THE FACILITY WILL REMAIN IN OPERATION DURING CONSTRUCTION. COORDINATE ALL SHUTDOWNS AND CONSTRUCTION ACTIVITY WITH FACILITIES STAFF.
9. MAINTAIN ACCESSIBILITY OF EQUIPMENT AND JUNCTION BOXES AS PER NEG AND TO OWNER'S SATISFACTION.
10. SECURE ALL LIGHT FIXTURES TO CEILING/WALLS AT (2) LOCATIONS PER FIXTURE.
11. PAINT ALL NEW EXPOSED RACEWAY RUNS, FITTINGS, AND ATTACHMENTS TO MATCH COLOR OF BACKGROUND CEILINGS, MULLIONS, AND WALLS. RACEWAY MAY BE PREPAINTED PRIOR TO INSTALLATION. CONDUIT AND BOXES ON CONCRETE SURFACES MAY BE GRAY. PAINTING DOES NOT APPLY TO SURFACE RACEWAY PRODUCTS.

REFERENCE NOTES:

- ① PROVIDE WEATHERPROOF JUNCTION BOX FOR HIGH WATER ALARM IN BACKFLOW PREVENTER VAULT. COORDINATE LOCATION WITH MECHANICAL. ALARM WIRING PROVIDED BY OTHERS.
- ② RECEPTACLE SHALL SERVE SUMP PUMP LOCATED IN BACKFLOW PREVENTER VAULT. COORDINATE LOCATION WITH MECHANICAL.
- ③ CONDUIT ROUTING SHALL PARALLEL WATER PIPING. COORDINATE LOCATION WITH MECHANICAL.



KEY PLAN
NOT TO SCALE



FIRE PROTECTION

RILEY RESIDENCE HALL

LOCATION:
650 East 11th Avenue
Eugene, OR 97401
OWNER:
University of Oregon
Housing

LEGEND,
SCHEDULES &
SITE PLAN

MARK	DATE	DESCRIPTION
DESIGNED	MBR	
DRAWN	MBR	
CHECKED	JLG	
FILENAME	E-001_LESH45P	
DATE	09MAY2014	
PROJECT	PO10.01	

E-001

SHEET NOTES:

- EQUIPMENT SHOWN ON DEMOLITION PLAN SHALL BE REMOVED WITH THE INTENT TO RE-INSTALL AND RECONNECT IN THE SAME LOCATION AFTER SPRINKLER PIPING INSTALLATION IS COMPLETE, UNLESS OTHERWISE NOTED.
- EQUIPMENT SHOWN AS EXISTING ARE TO REMAIN IN PLACE DURING SPRINKLER PIPING INSTALLATION.
- EQUIPMENT SHOWN AS NEW SHALL BE INSTALLED AND RECONNECTED WHERE INDICATED. WHERE REQUIRED EXISTING WIRING SHALL BE INTERCEPTED AND EXTENDED TO FACILITATE RE-INSTALLATION.

REFERENCE NOTES:

- PROVIDE 15 AMP, SINGLE POLE BREAKER TO SERVE NEW SUMP PUMP IN BACKFLOW PREVENTER VAULT. BREAKER TO MATCH EXISTING.
- PROVIDE (2) 3/4" CONDUITS ROUTED FROM BACKFLOW PREVENTER VAULT AS SHOWN. ONE CONDUIT SHALL CONTAIN (2) #12 CU, # (1) #12 GND. FOR POWER TO SUMP PUMP IN VAULT. ONE CONDUIT FOR HIGH WATER ALARM SIGNAL. WIRING FOR ALARM PROVIDED BY OTHERS.
- PROVIDE 4-SQUARE JUNCTION BOXES FOR FLOW AND TAMPER SWITCHES AS SHOWN. 3/4" PATHWAY FOR WIRING SHALL ROUTE BACK TO EXISTING FIRE ALARM PANEL. WIRING FOR FIRE ALARM EQUIPMENT PROVIDED BY OTHERS.
- ROUTE 3/4" CONDUIT UP IN CHASE TO FIRST FLOOR JUNCTION BOXES.
- ROUTE 3/4" CONDUIT UP TO TO FIRST FLOOR, ROOM 104.
- PROVIDE (3) 3/4" CONDUITS FOR THE FOLLOWING:
-POWER FOR VAULT SUMP PUMP
-HIGH WATER ALARM SIGNAL (CONDUIT ONLY)
-FIRE ALARM DEVICES (CONDUIT ONLY)



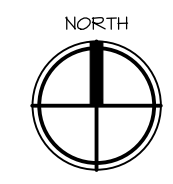
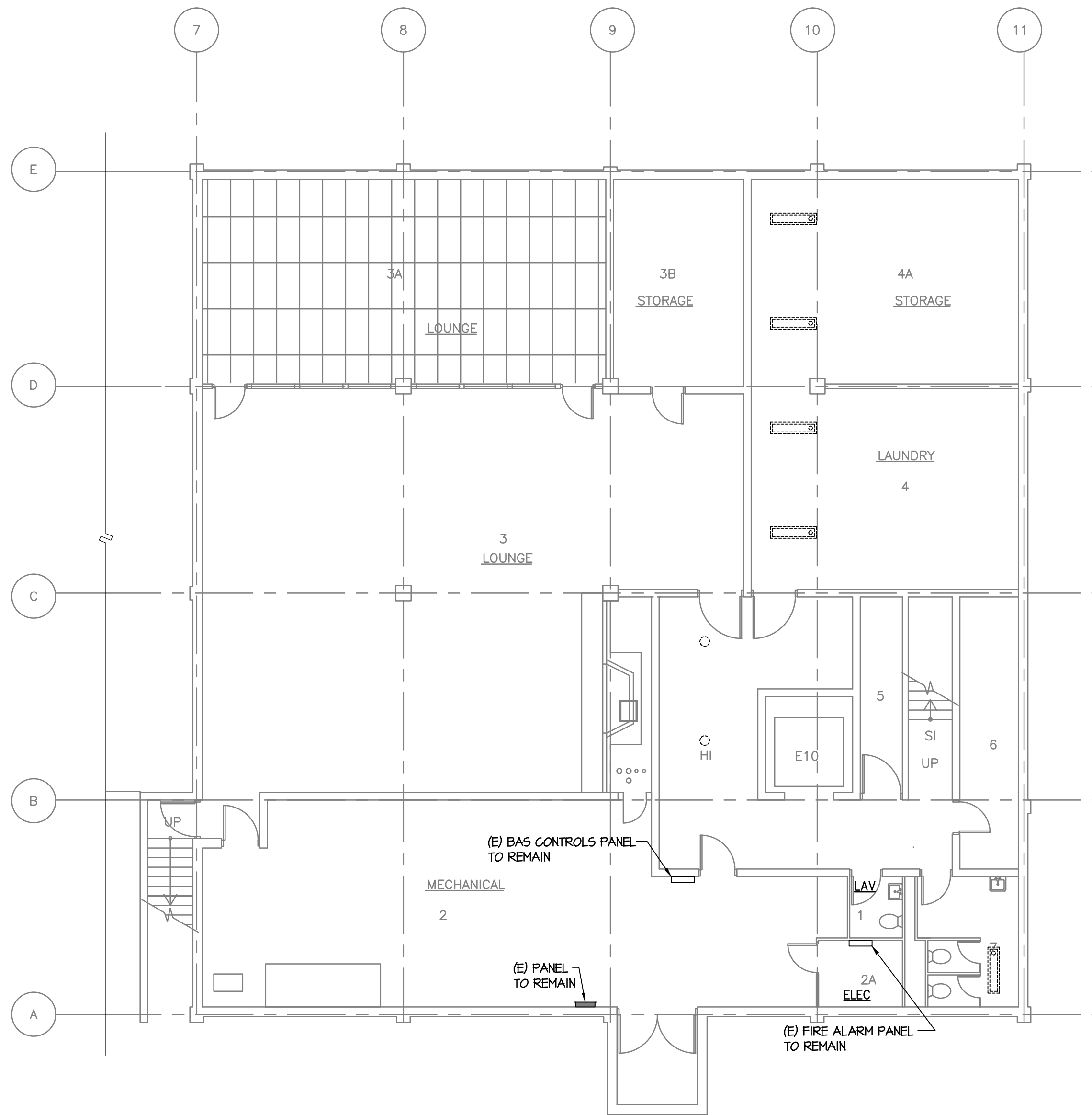
FIRE PROTECTION

RILEY RESIDENCE HALL

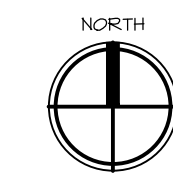
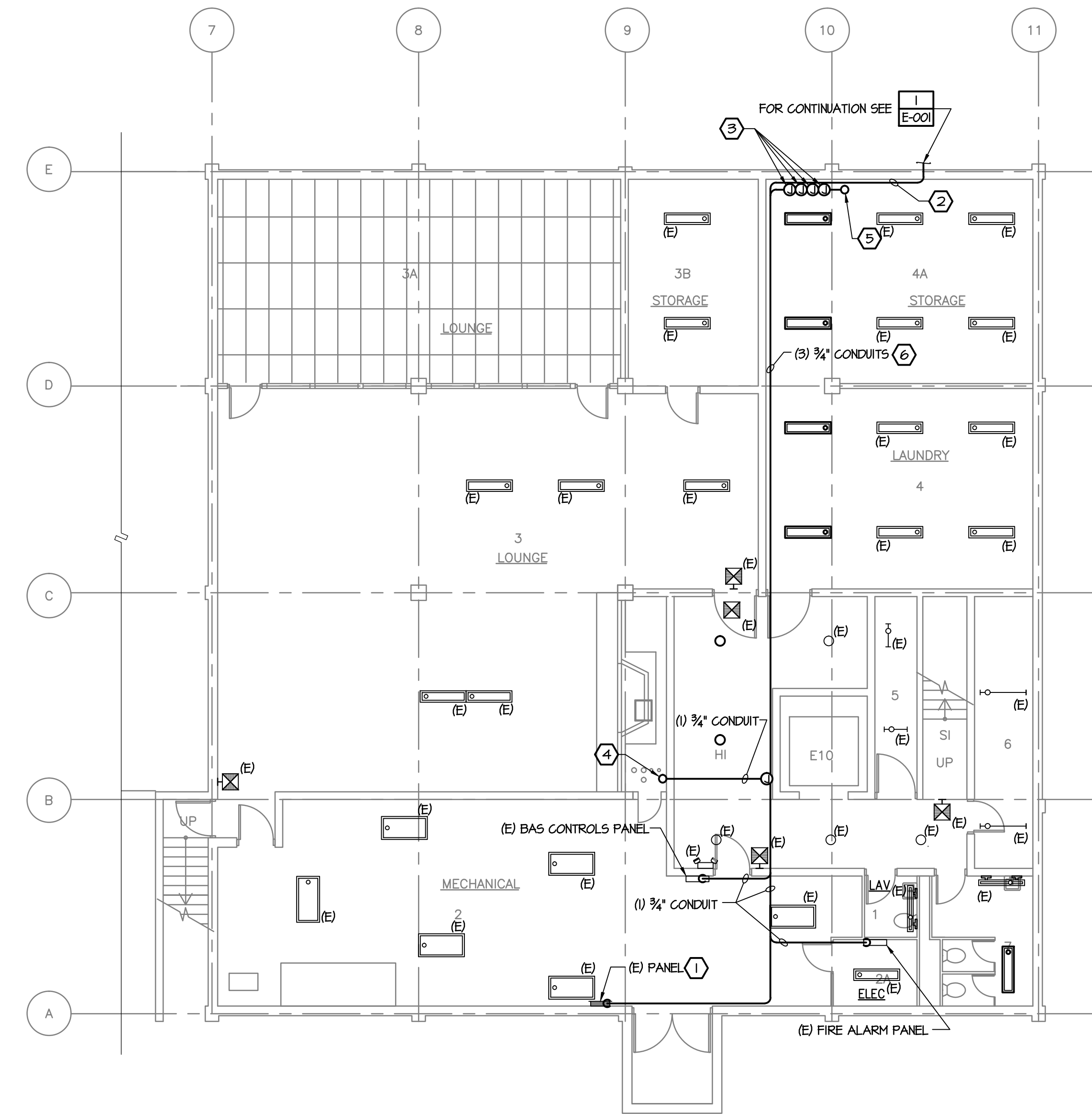
LOCATION:
650 East 11th Avenue
Eugene, OR 97401

OWNER:
University of Oregon
Housing

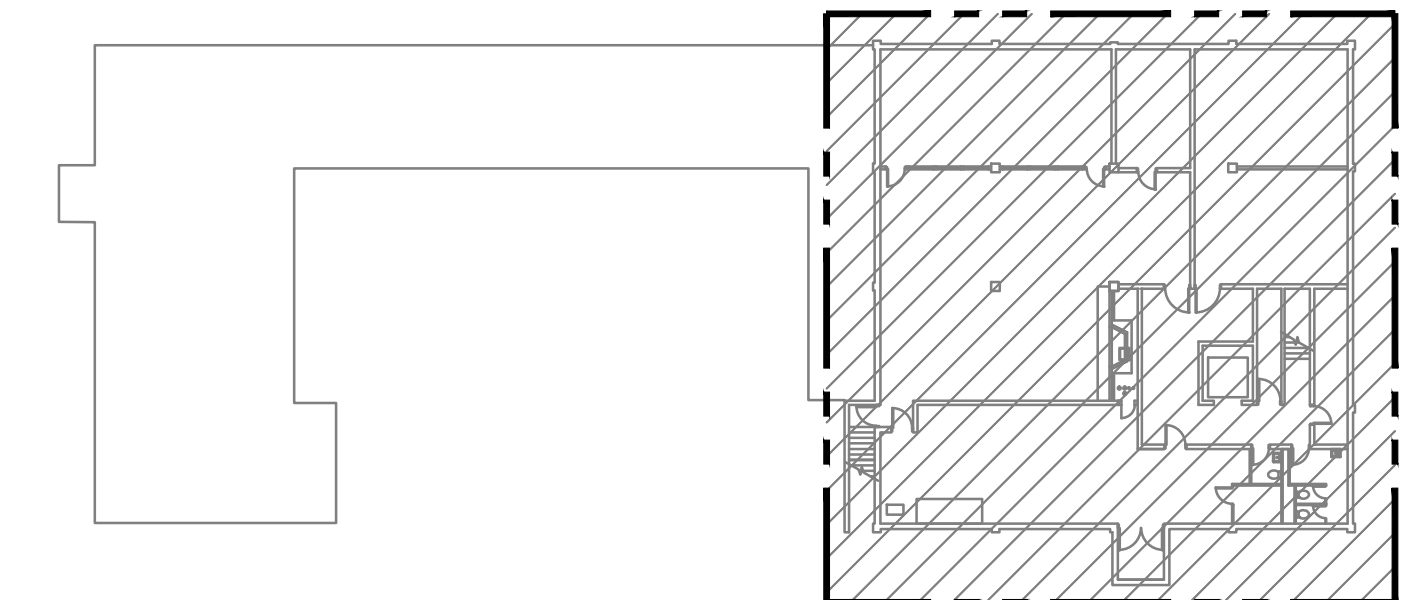
LIGHTING AND POWER
DEMOLITION
AND NEW
BASEMENT



1 LIGHTING DEMOLITION PLAN - BASEMENT
SCALE: 1/8" = 1'-0"



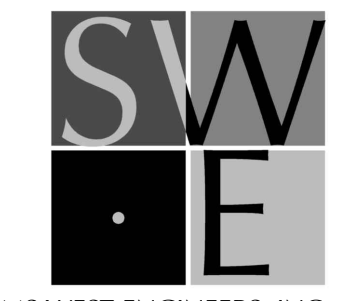
2 LIGHTING AND POWER PLAN - BASEMENT
SCALE: 1/8" = 1'-0"



KEY PLAN
NOT TO SCALE

MARK	DATE	DESCRIPTION
DESIGNED	MBR	
DRAWN	MBR	
CHECKED	JLG	
FILENAME	E-101_DPLTG#PWRB	
DATE	09MAY2014	
PROJECT	PO10.01	

E-101



SYSTEMS WEST ENGINEERS, INC.
 411 high street
 eugene, oregon 97401-2427
 541-342-7210
 systemswestengineers.com

SHEET NOTES:

- EQUIPMENT SHOWN ON DEMOLITION PLAN SHALL BE REMOVED WITH THE INTENT TO RE-INSTALL AND RECONNECT IN THE SAME LOCATION AFTER SPRINKLER PIPING INSTALLATION IS COMPLETE, UNLESS OTHERWISE NOTED.
- FIXTURES SHOWN AS EXISTING ARE TO REMAIN IN PLACE DURING SPRINKLER PIPING INSTALLATION.

REFERENCE NOTES:

- (1) REMOVE EXISTING ELEVATOR DISCONNECT. WIRING SHALL REMAIN.



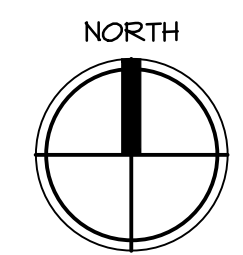
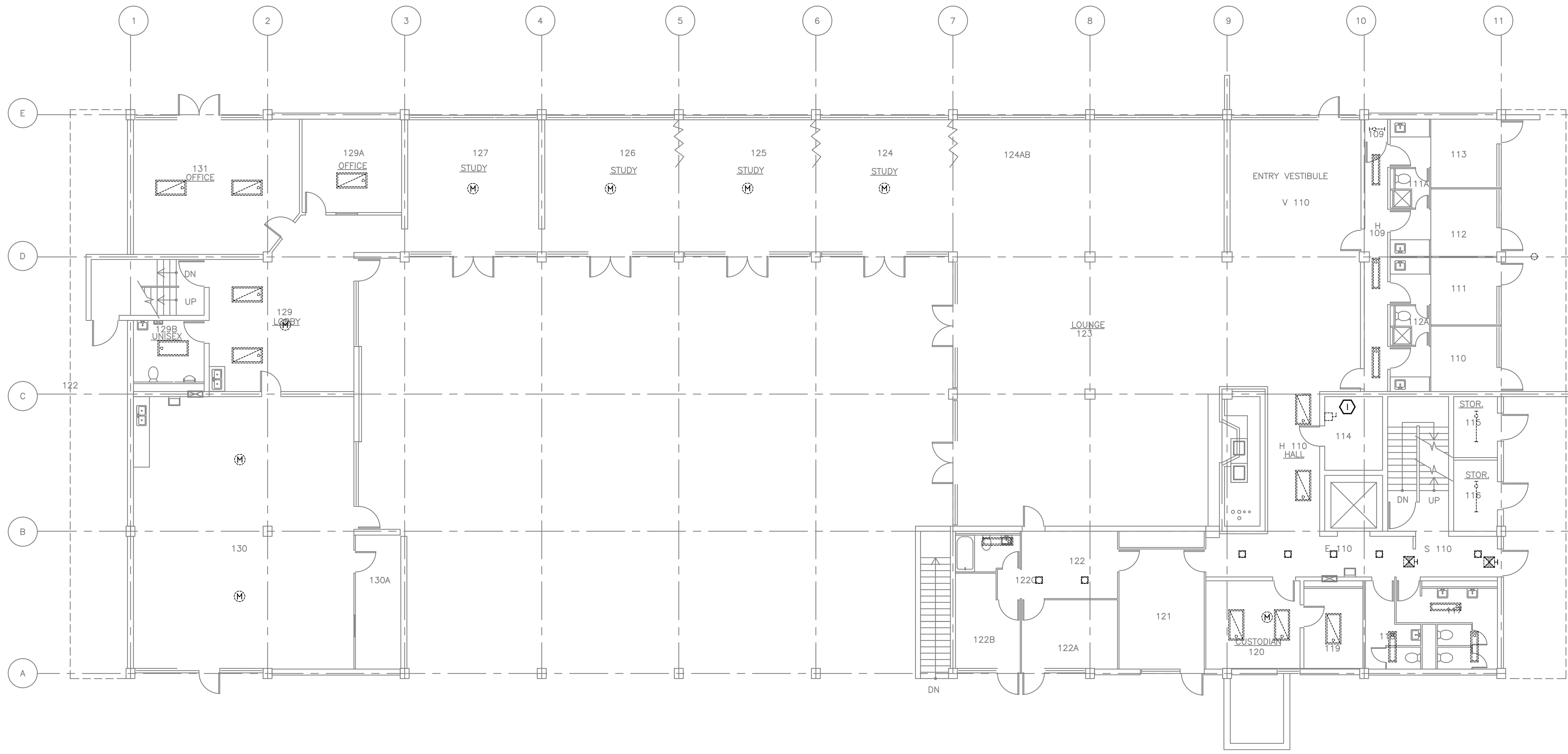
FIRE PROTECTION

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 Housing

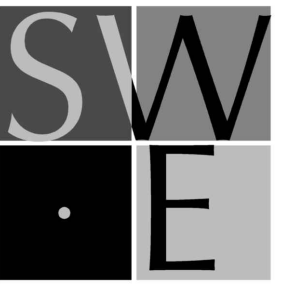
LIGHTING AND POWER
 DEMOLITION PLAN
 FIRST FLOOR



1 LIGHTING AND POWER DEMOLITION PLAN - FIRST FLOOR
 SCALE: 1/8" = 1'-0"

MARK	DATE	DESCRIPTION
DESIGNED	MBR	
DRAWN	MBR	
CHECKED	JLG	
FILENAME	E-102_DPFP1	
DATE	09MAY2014	
PROJECT	PO10.01	

E-102

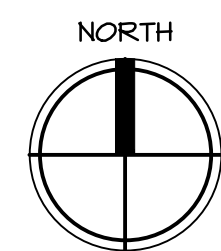
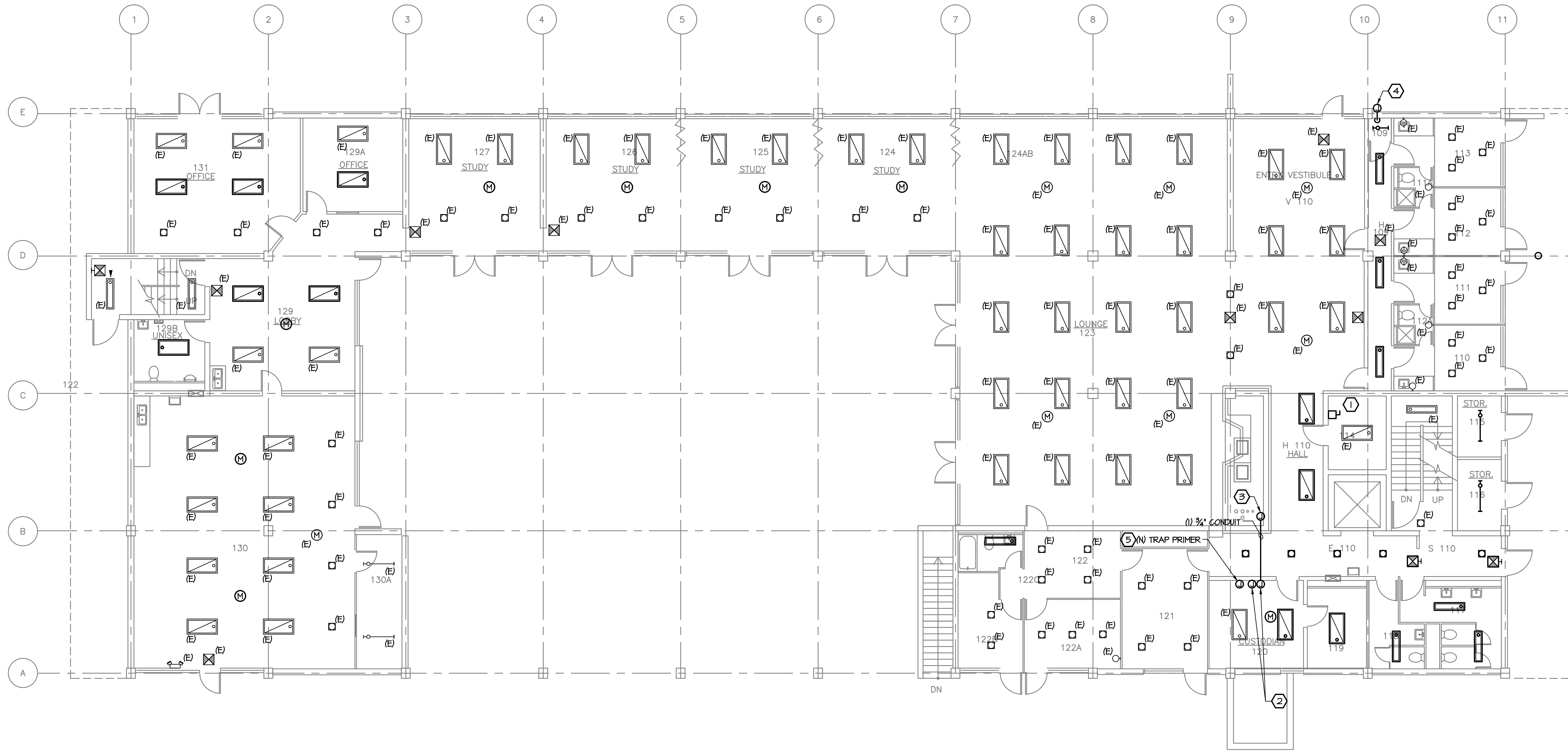


SHEET NOTES:

1. LIGHT FIXTURES AND EQUIPMENT SHOWN AS EXISTING ARE TO REMAIN IN PLACE DURING SPRINKLER PIPING INSTALLATION.
2. LIGHT FIXTURES SHOWN AS NEW SHALL BE INSTALLED AND RECONNECTED WHERE INDICATED. WHERE REQUIRED EXISTING WIRING SHALL BE INTERCEPTED AND EXTENDED TO FACILITATE RE-INSTALLATION.

REFERENCE NOTES:

- ① PROVIDE 200A SHUNT-TRIP BREAKER. INTERCEPT AND EXTEND EXISTING ELEVATOR WIRING TO FACILITATE INSTALLATION.
- ② PROVIDE 4-SQUARE JUNCTION BOXES FOR FLOW AND TAMPER SWITCHES AS SHOWN. 3/4" PATHWAY FOR WIRING SHALL ROUTE BACK TO EXISTING FIRE ALARM PANEL. WIRING FOR FIRE ALARM EQUIPMENT PROVIDED BY OTHERS.
- ③ ROUTE 3/4" CONDUIT UP TO SECOND FLOOR JUNCTION BOXES.
- ④ PROVIDE WEATHER PROOF JUNCTION BOX FOR FIRE ALARM BELL. FIRE ALARM EQUIPMENT PROVIDED BY OTHERS.
- ⑤ PROVIDE CONNECTION TO NEW TRAP PRIMER. INTERCEPT AND EXTEND EXISTING CIRCUIT FROM NEAREST RECEPTACLE LOCATED IN ROOM TO SERVE TRAP PRIMER. UTILIZE #12 WIRE FOR CIRCUIT EXTENSION. APPROXIMATE TRAP PRIMER LOAD 30VA AT 120V.



1 LIGHTING AND POWER - FIRST FLOOR
 SCALE: 1/8" = 1'-0"

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 Housing

LIGHTING AND
 POWER PLAN
 FIRST FLOOR

MARK	DATE	DESCRIPTION

DESIGNED MBR
 DRAWN MBR
 CHECKED JLG
 FILENAME
 E-112_FPLTG#PWRI

DATE 09MAY2014

PROJECT PO10.01

E-112

SHEET NOTES:

1. LIGHT FIXTURES AND EQUIPMENT SHOWN AS EXISTING ARE TO REMAIN IN PLACE DURING SPRINKLER PIPING INSTALLATION.
2. LIGHT FIXTURES SHOWN AS NEW SHALL BE INSTALLED AND RECONNECTED WHERE INDICATED. WHERE REQUIRED EXISTING WIRING SHALL BE INTERCEPTED AND EXTENDED TO FACILITATE RE-INSTALLATION.

REFERENCE NOTES:

- 1 PROVIDE 4-SQUARE JUNCTION BOXES FOR FLOW AND TAMPER SWITCHES AS SHOWN. 3/4" PATHWAY FOR WIRING SHALL ROUTE BACK TO EXISTING FIRE ALARM PANEL. WIRING FOR FIRE ALARM EQUIPMENT PROVIDED BY OTHERS.
- 2 ROUTE 3/4" CONDUIT UP TO THIRD FLOOR JUNCTION BOXES.



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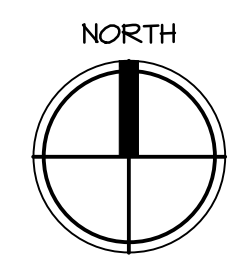
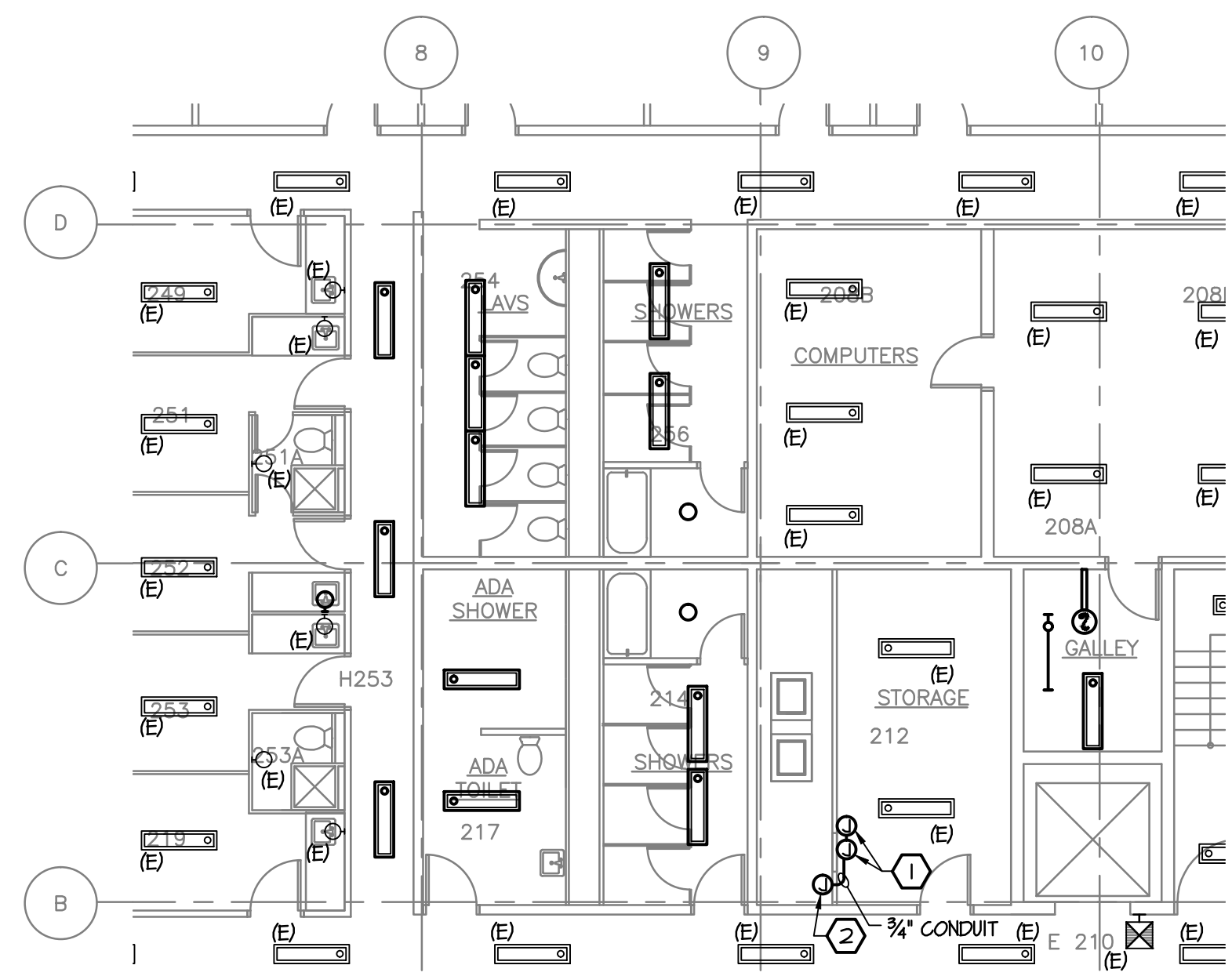
LIGHTING AND POWER PLAN
PARTIAL
SECOND AND
THIRD FLOORS

MARK	DATE	DESCRIPTION
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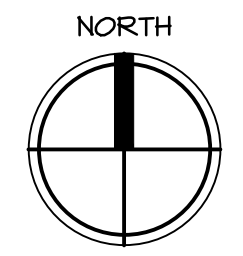
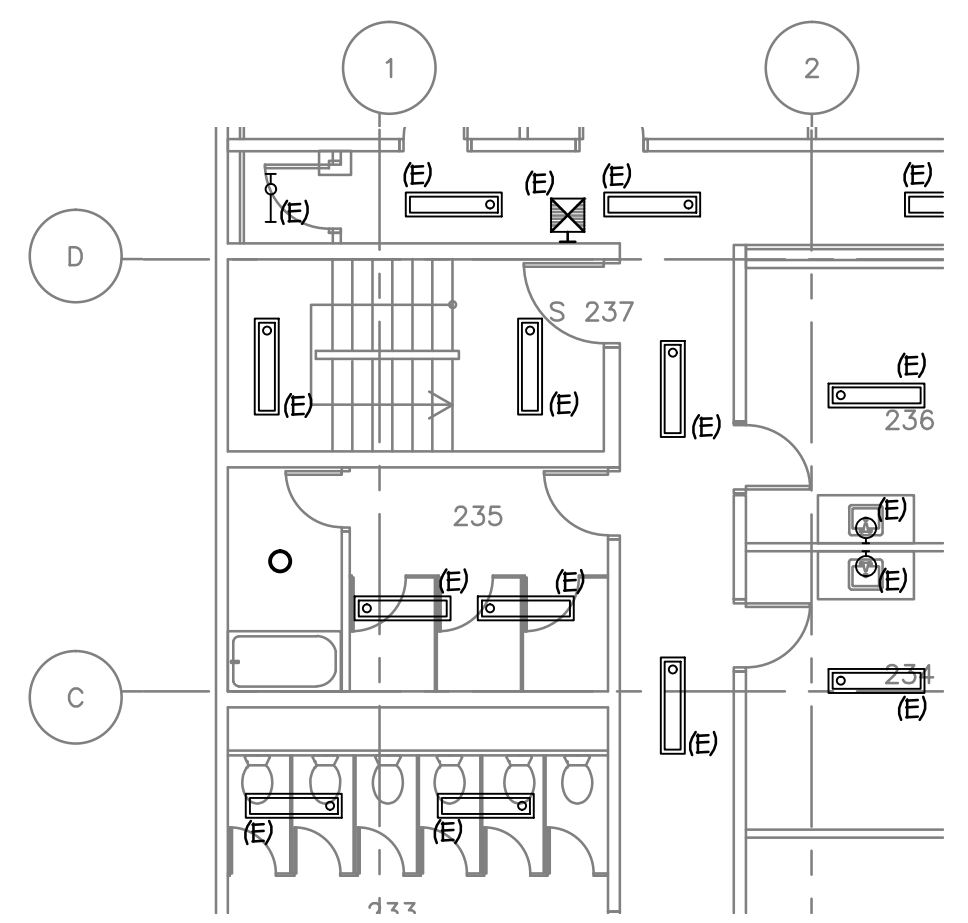
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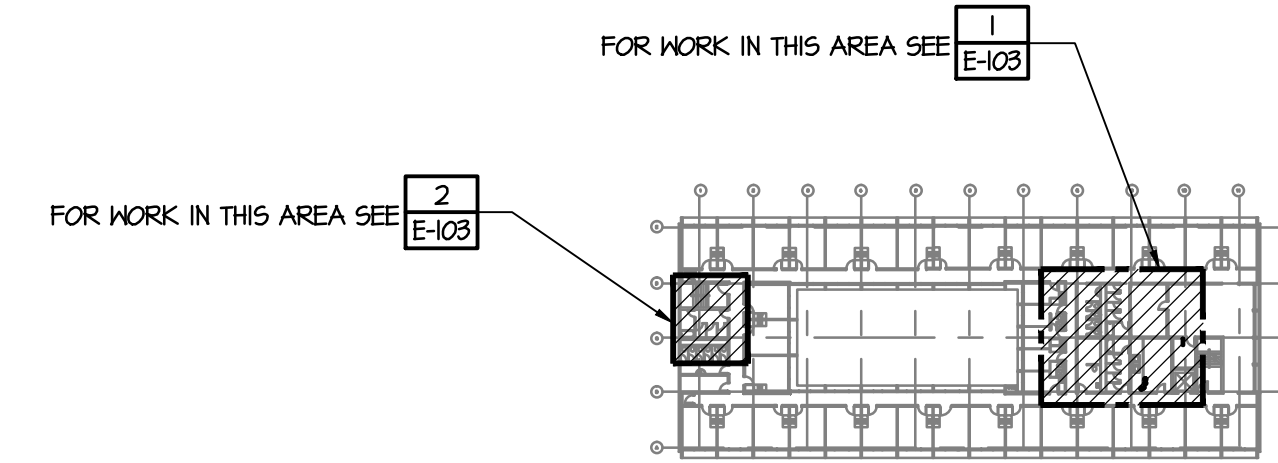
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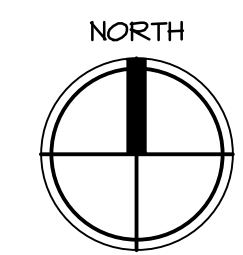
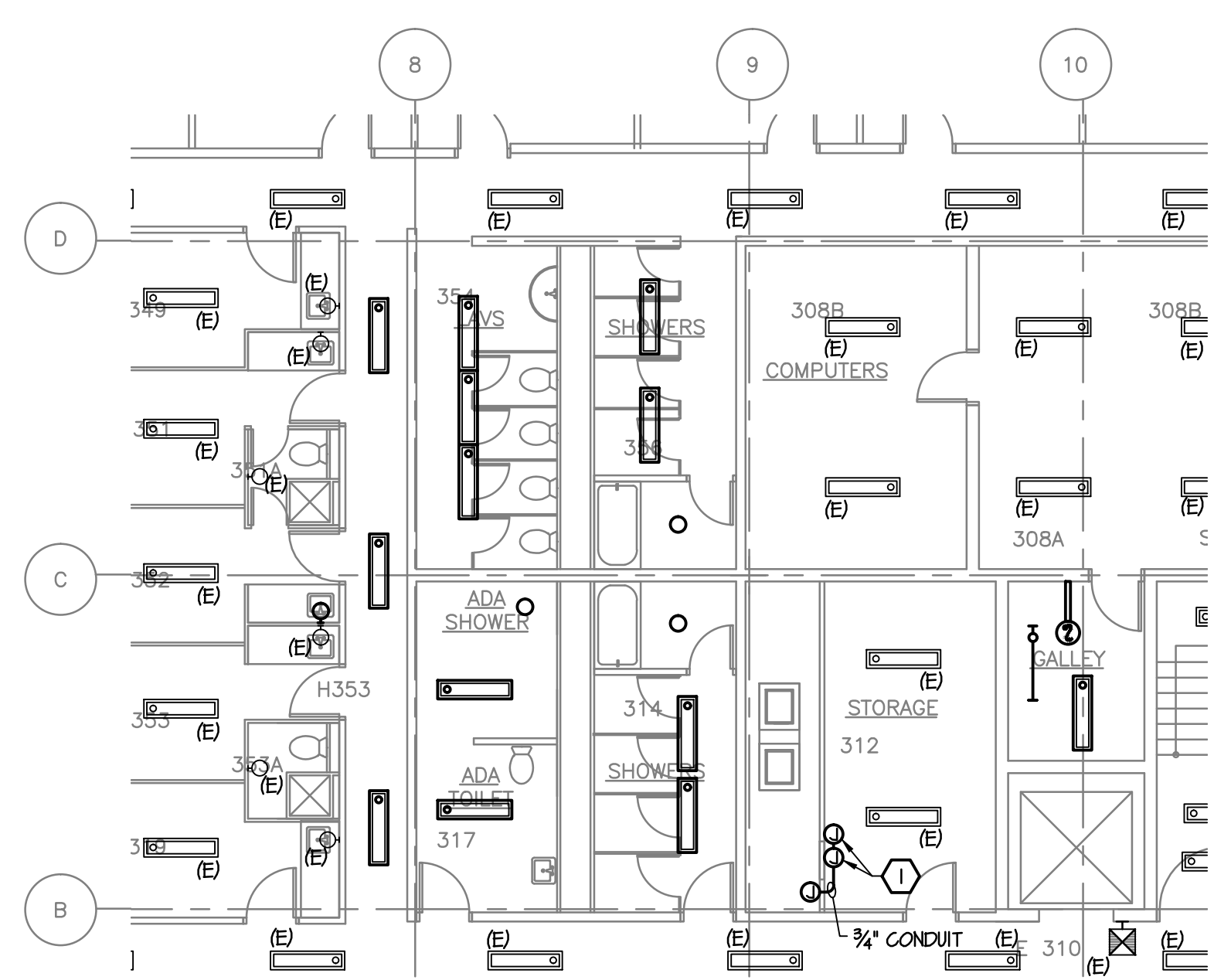
1 LIGHTING AND POWER PLAN - PARTIAL SECOND FLOOR
SCALE: 1/8" = 1'-0"



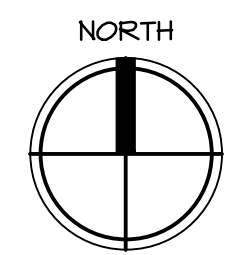
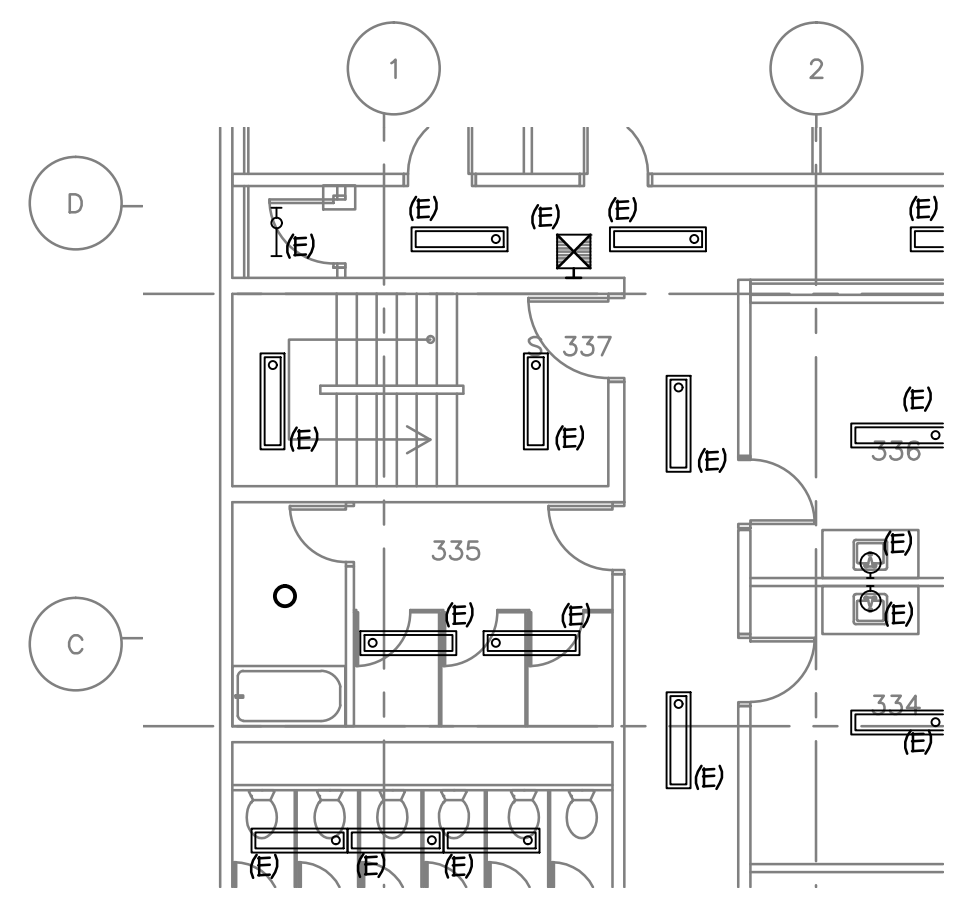
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SCALE: 1/8" = 1'-0"



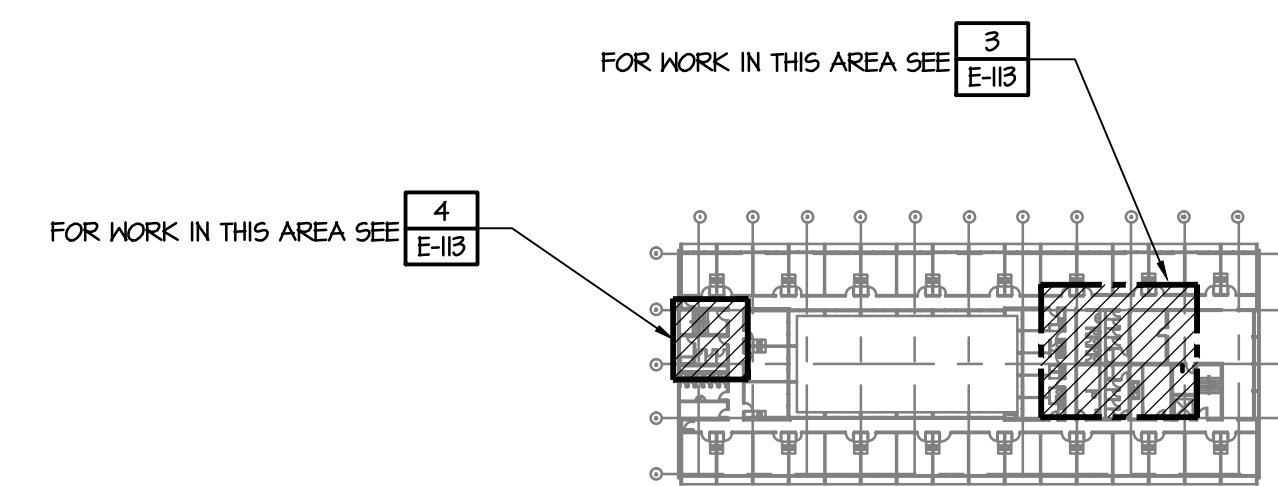
KEY PLAN - SECOND FLOOR
NOT TO SCALE



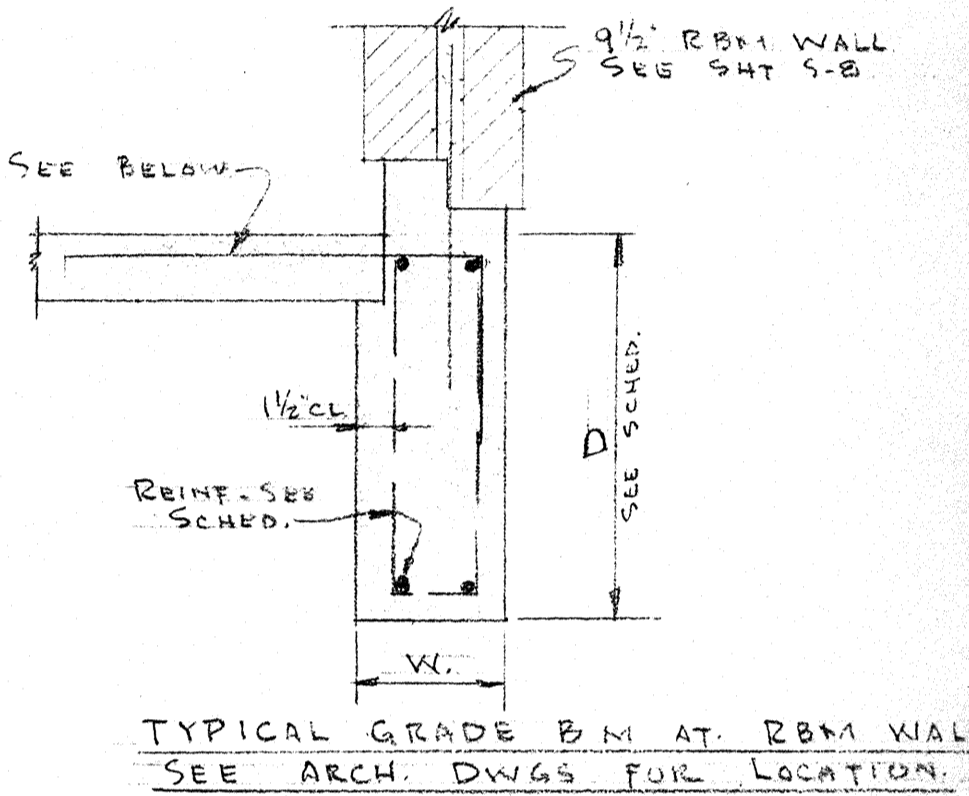
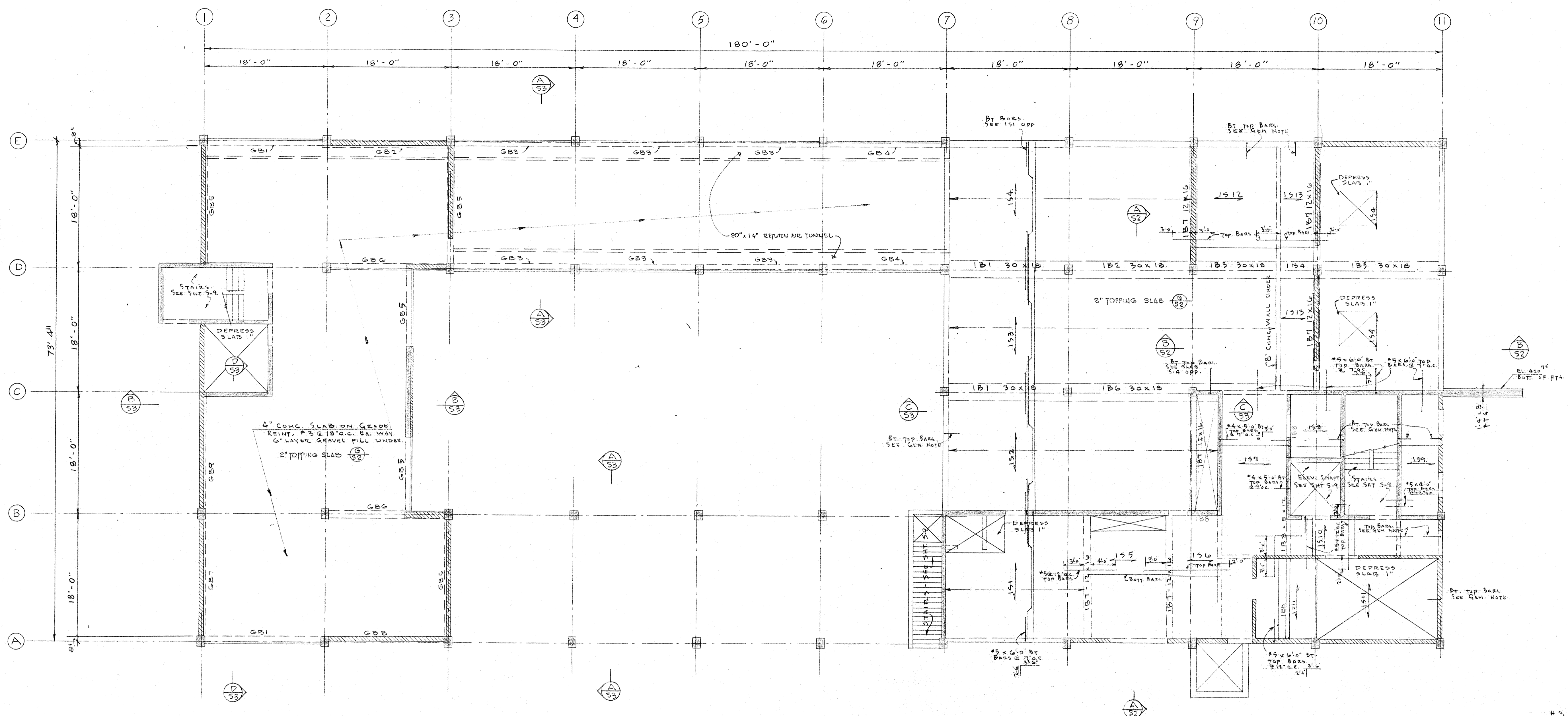
3 LIGHTING AND POWER PLAN - PARTIAL THIRD FLOOR
SCALE: 1/8" = 1'-0"



4 LIGHTING AND POWER PLAN - PARTIAL THIRD FLOOR
SCALE: 1/8" = 1'-0"



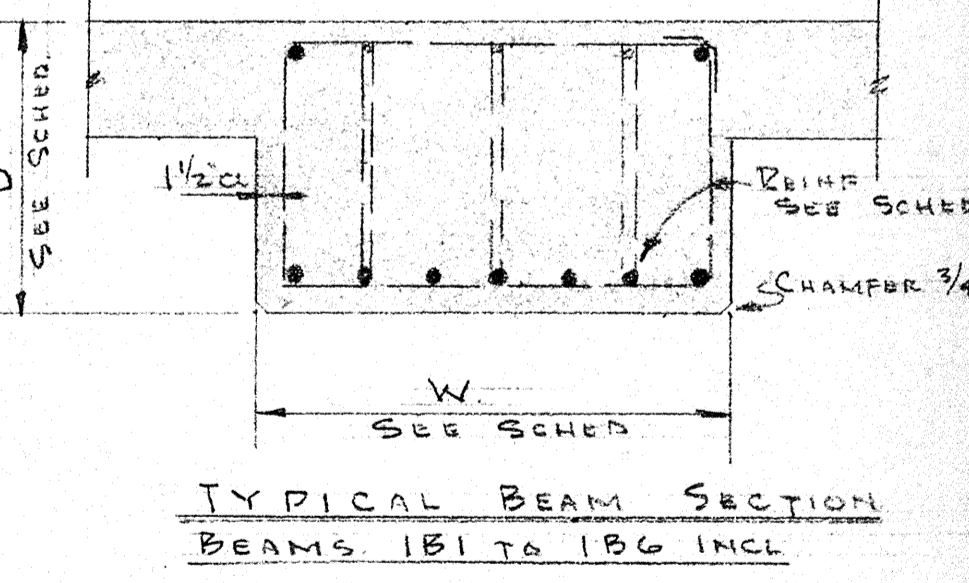
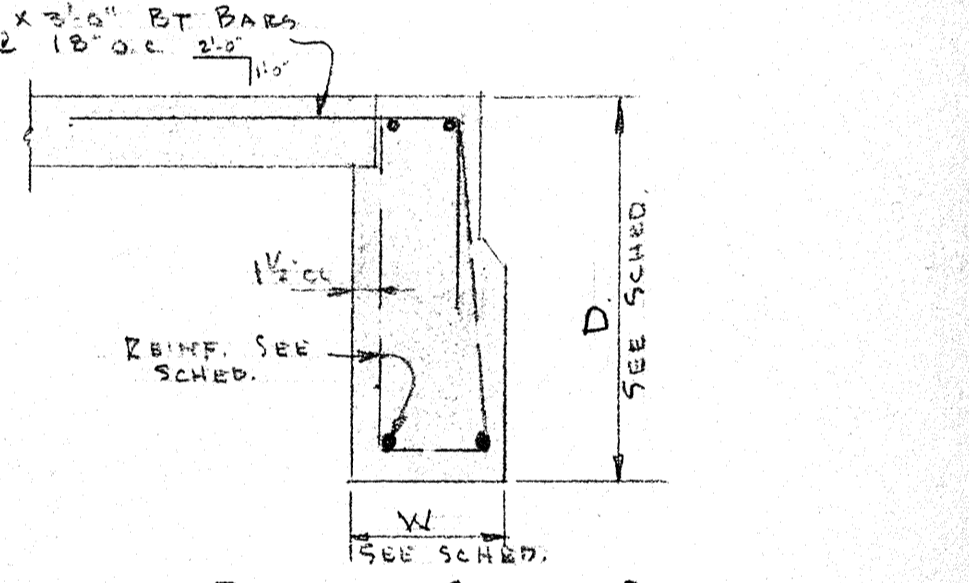
KEY PLAN - THIRD FLOOR
NOT TO SCALE



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

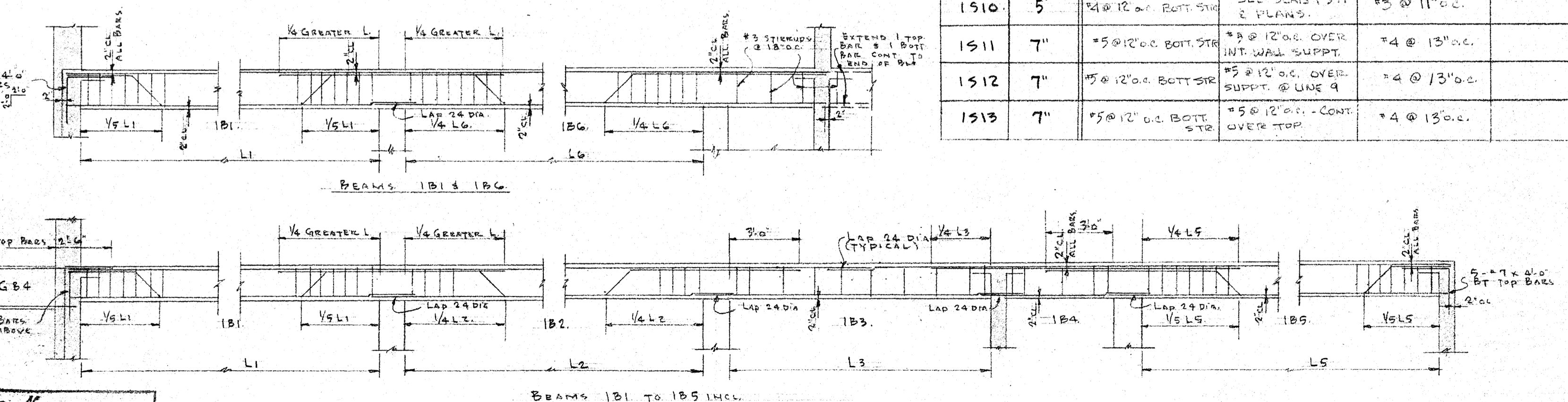
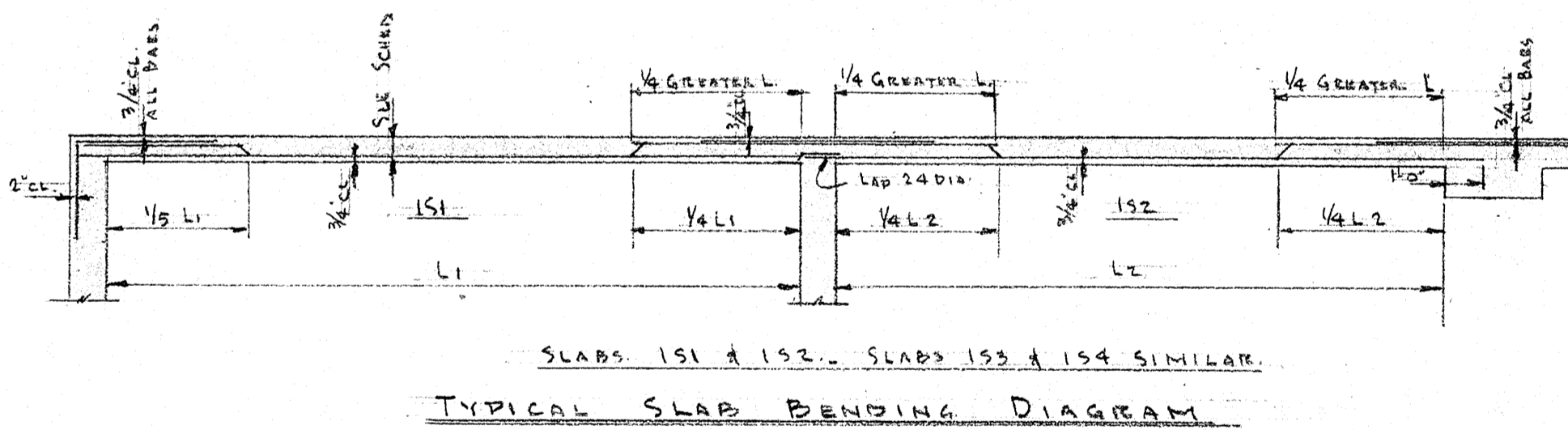
GROUND FLOOR BEAM SCHEDULE

BEAM MARK	BEAM SIZE	REINFORCING			
		LONGITUDINAL	STIRRUPS		
W	D	NO. SIZE	REMARKS	NO. SIZE	SPACING FROM FACE OF SUPPORT OR END
181	30 18	4-#7	BOTT. STR.	16-#3	103" 7@7"
		4-#7	BENT		
		2-#7	TOP STR. CONT. FROM END SUPPT. TO CTR. OF 182 OR 184		
182	30 18	3-#7	BOTT. STR.	10-#3	103" 4@7"
		2-#8	TOP STR. CONT. FROM CTR. OF 182 TO CTR. OF 183		
		6-#6	SEE ADJ. BEAMS FOR TOP STR.		
183	30 18	6-#3	103" 2@7"	6-#3	103" 2@7"
			FILL @ 18" O.C.		
184	30 18	4-#7	BOTT. STR.	5-#3	103" 1@7"
		2-#7	TOP STR. CONT. FROM CTR. OF 184 TO CTR. OF 185		
		2-#7	TOP STR. CONT. TO W. PTS. OF ADJ. RM. ON EACH SIDE		
185	30 18	4-#7	BOTT. STR.	14-#3	103" 6@7"
		2-#7	TOP STR. CONT. FROM CTR. OF 185 TO END SUPPT.		
		4-#7	BENT		
186	30 18	16-#3	103" 7@7"	16-#3	103" 7@7"
		4-#7	TOP STR. FROM CTR. OF 186 CONT. OVER SUPPT. @ C-9		
		4-#7	BENT		
187	12 16	4-#8	BOTT. STR.	18-#3	103" 8@6"
		4-#8	TOP STR. - HK @ EXT. END & EXT. INT. END 3'-0" BEYOND SUPPT.		
188	8 12	2-#7	BOTT. STR.	16-#3	103" 7@5"
		2-#7	TOP STR. - EXTEND 2'-0" AT ENDS OR HK		
GB1	9 1/2 24	2-#5	BOTT. STR.	#3	106" FILL @ 18" O.C.
		2-#5	TOP STR. FROM EXT. END TO CTR. OF GB1 OR GB2		
		2-#7	BOTT. STR.		
GB2	9 1/2 24	2-#7	TOP STR. CONT. FROM CTR. OF GB1 TO CTR. OF GB3	#3	106" FILL @ 18" O.C.
		2-#5	BOTT. STR. - LAP & SUPPT.		
		2-#5	TOP STR. - LAP @ SPAN CTR.		
GB4	9 1/2 24	2-#5	BOTT. STR.	#3	106" FILL @ 18" O.C.
		2-#5	TOP STR. - EXTEND 2'-0" INTO B.M.T. WALL OR RM. 181		
		2-#7	BOTT. STR.		
GB5	9 1/2 24	2-#7	TOP STR. - HK @ ENDS	#3	106" FILL @ 18" O.C.
		2-#7	TOP STR. - HK @ INT. WALL		
		2-#7	BOTT. STR.		
GB6	9 1/2 24	2-#7	TOP STR. - HK @ EXT. END	#3	106" FILL @ 18" O.C.
		2-#7	TOP STR. - HK @ INT. END		
		2-#7	BOTT. STR.		
GB7	9 1/2 24	2-#7	BOTT. STR.	#3	106" FILL @ 18" O.C.
		2-#7	TOP STR. - LAP @ SPAN CTR. & HK @ EXT. SUPPORTS		
		2-#7	BOTT. STR.		
GB8	9 1/2 24	2-#7	TOP STR. FROM SUPPT. @ A-3 TO CTR. OF GB1 HK @ EXT. END	#3	106" FILL @ 18" O.C.
		2-#7	BOTT. STR.		
		2-#7	TOP STR. CONT.		
GB9	9 1/2 48	2-#7	BOTT. STR.	#3	106" FILL @ 18" O.C.
		2-#7	TOP STR. CONT.		



GROUND FLOOR SLAB SCHEDULE

SLAB MARK	SLAB DEPTH	REINFORCING				REMARKS
		MAIN STL	TOP STL	TEMP. STL		
151	7"	#5 @ 8" O.C. ALT. STR. 1 FT.	#5 @ 6" O.C. @ 14" O.C. OVER SUPPT. @ LINE 'B'	#4 @ 13" O.C.	SEE DETAIL G/8 & 9 FOR 2" TOPPING SLAB.	
152	7"	#5 @ 8" O.C. ALT. STR. 1 FT.	#3 @ 6" O.C. @ 18" O.C. OVER SUPPT. @ LINE 'C'	#4 @ 13" O.C.		
153	7"	#5 @ 8" O.C. ALT. STR. 1 FT.	#3 @ 6" O.C. @ 12" O.C. OVER SUPPT. @ LINE 'D'	#4 @ 13" O.C.		
154	7"	#5 @ 7" O.C. ALT. STR. 1 FT.	SEE PLAN 5 ADJ. SLAB	#4 @ 13" O.C.		
155	7"	#5 @ 12" O.C. BOTT. STR.	SEE PLAN 4 SLAB 156	#4 @ 13" O.C.		
156	7"	#5 @ 12" O.C. BOTT. STR.	#5 @ 12" O.C.	#4 @ 13" O.C.		
157	5"	#4 @ 10" O.C. BOTT. STR.	#4 @ 5" O.C. @ 7" O.C. OVER WALL SUPPT.	#3 @ 11" O.C.		
158	5"	#4 @ 10" O.C. BOTT. STR.	SEE PLAN 157 & PLAN 4	#3 @ 11" O.C.		
159	5"	#4 @ 12" O.C. BOTT. STR.	SEE PLAN 4	#3 @ 11" O.C.		
1510	5"	#4 @ 12" O.C. BOTT. STR.	SEE SLAB 1511 & PLAN 4	#3 @ 11" O.C.		
1511	7"	#5 @ 12" O.C. BOTT. STR.	#3 @ 12" O.C. OVER INT. WALL SUPPT.	#4 @ 13" O.C.		
1512	7"	#5 @ 12" O.C. BOTT. STR.	#5 @ 12" O.C. OVER SUPPT. @ LINE 9	#4 @ 13" O.C.		
1513	7"	#5 @ 12" O.C. BOTT. STR.	#5 @ 12" O.C. - CONT. OVER TOP	#4 @ 13" O.C.		



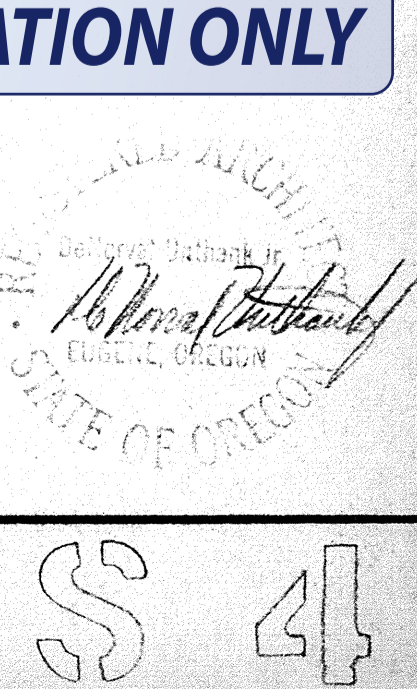
Henry & Kramer
Civil Structural Engineers
Portland, Oregon

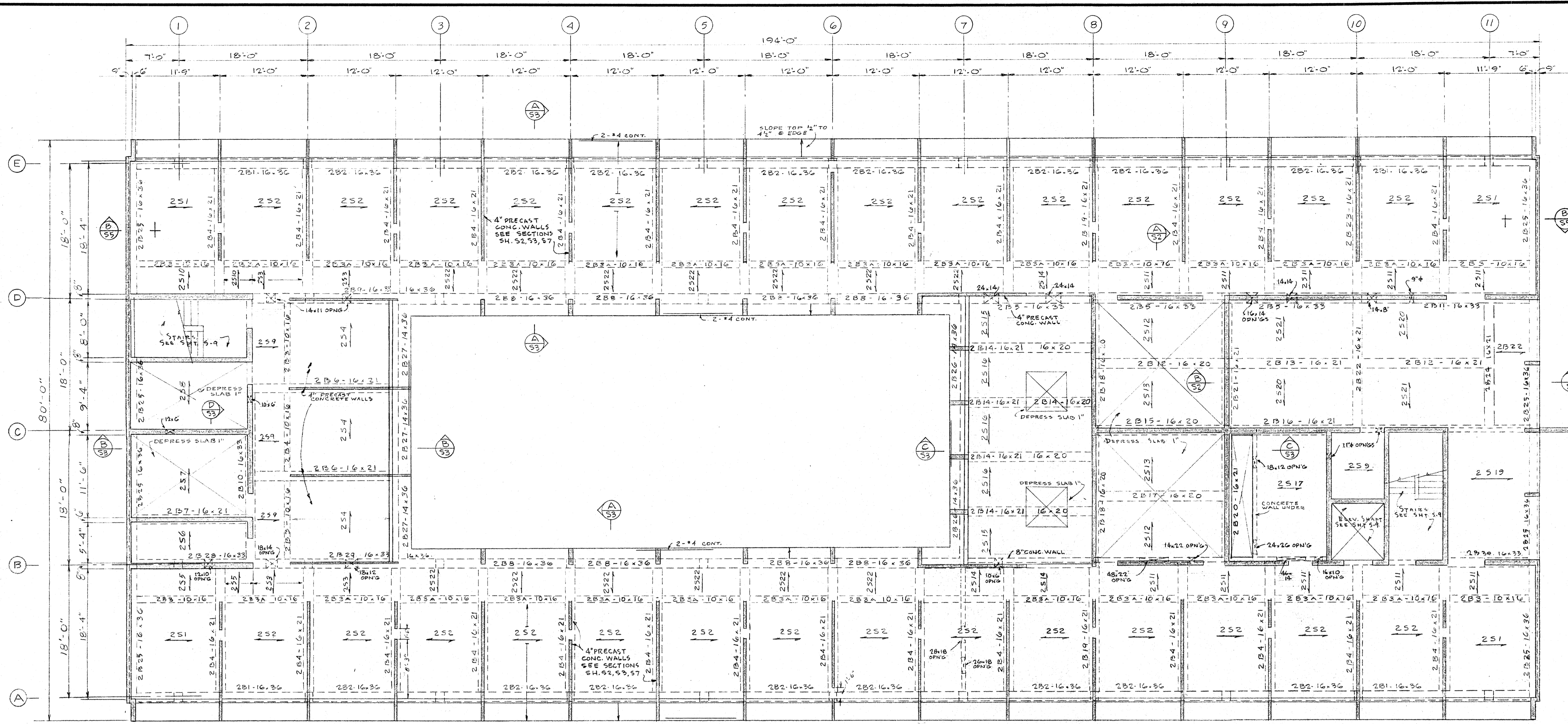
AS CONSTRUCTED
REVISIONS DATE

Architects WILMSEN ENDICOTT & UNTHANK AIA
EUGENE OREGON 868 THIRTEENTH AVENUE EAST DIAMOND 4-8432

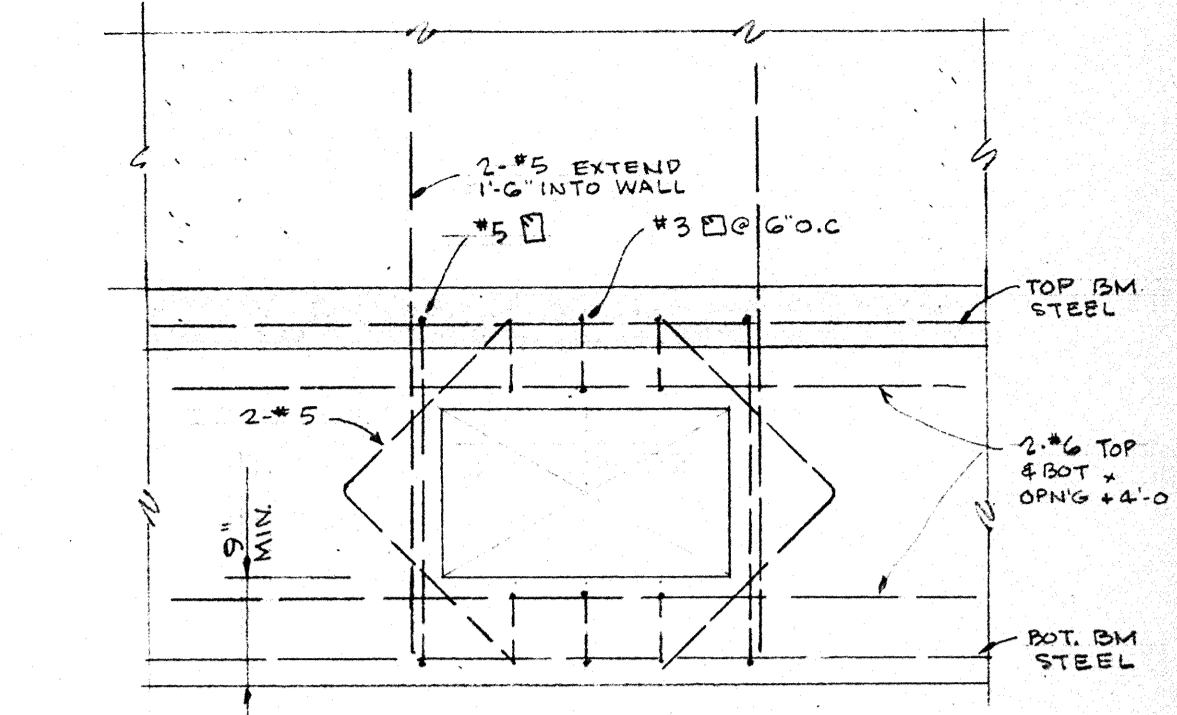
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SACRED HEART GENERAL HOSPITAL, EUGENE, OREGON

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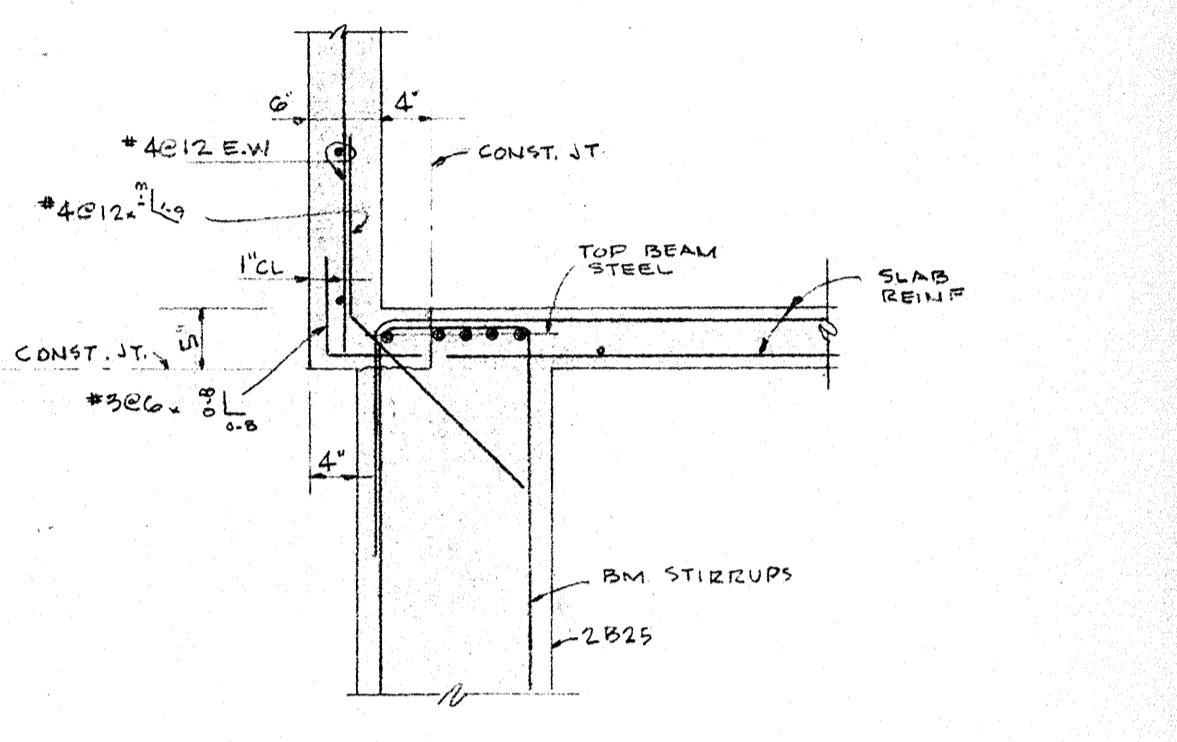




SECOND FLOOR FRAMING PLAN
SCALE: 1/8"=1'-0"



TYPICAL MECHANICAL DUCT OPENING REINF. AT 2ND FL. BEAMS
SCALE - NONE



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

NOTES:
1. SEE SHIT 9-6 FOR ADDED TOP BARS OVER BEAMS & WALLS AND AT SLAB-WALL INTERSECTIONS. STEEL SHALL BE PROVIDED AS SHOWN ON THAT PLAN UNLESS OTHERWISE SHOWN ABOVE.
2. SEE SHIT 5-6 FOR TYPICAL SLAB PLACING DIAGRAMS.

SECOND FLOOR SLAB SCHEDULE

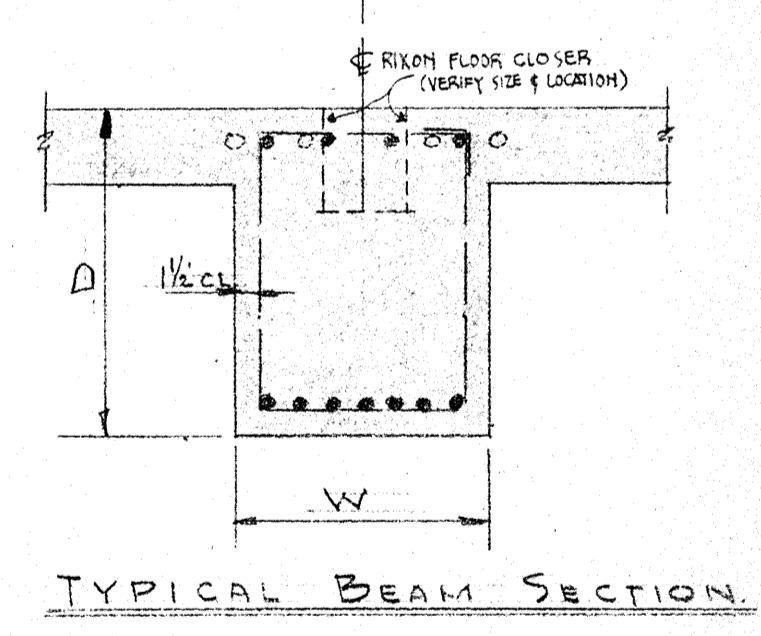
SLAB MARK	SLAB DEPTH	REINFORCING			
		BENT OR STR BOTTL STR	TOP STL	TEMP. STL	REMARKS
251	5"	#3 @ 6" o.c. ALT. STR. & BEAMS	#3 @ 4" o.c. @ 12" o.c. OVER SUPPT. BETWEEN 251 & 252	#3 @ 11" o.c.	
252	5"	#3 @ 6" o.c. ALT. STR. & BEAMS	#3 @ 4" o.c. @ 18" o.c. CTR. OVER SUPPORTS	#3 @ 11" o.c.	
253	5"	#3 @ 11" o.c. STR	#3 @ 10" o.c. EXTEND 2'-0" BEYOND CTR. OF SUPPT. EA. END	#3 @ 11" o.c.	
254	5"	#3 @ 5 1/2" o.c. ALT. STR. & BT	#3 @ 4" o.c. @ 18" o.c. CTR. OVER SUPPT.	#3 @ 11" o.c.	
255	5"	#3 @ 11" o.c. STR	#3 @ 12" o.c. CONT. OVER SLABS 253 & 254 EXTEND 2'-0" BEYOND SUPPT. SEE 255 ABOVE. ADD #3 @ 5" o.c. @ 7" o.c. OVER SUPPT. BETWEEN 254 & 257	#3 @ 11" o.c.	
256	5"	#3 @ 11" o.c. STR	#3 @ 5" o.c. @ 7" o.c. OVER SUPPT. BETWEEN 257 & 258	#3 @ 11" o.c.	
257	5"	#3 @ 5 1/2" o.c. STR	#3 @ 4" o.c. @ 18" o.c. OVER SUPPT. BETWEEN 257 & 258	#3 @ 11" o.c.	
258	5"	#3 @ 6" o.c. STR	#3 @ 2" o.c. @ 5 1/2" o.c. OVER SUPPT. AT STAIR WALL	#3 @ 11" o.c.	
259	5"	#3 @ 11" o.c. STR	#3 @ 9" o.c. @ 6" o.c. OVER SUPPT. AT STAIR WALL	#3 @ 11" o.c.	
2510	5"	#3 @ 11" o.c. STR	#3 @ 12" o.c. CONT. EXTEND 2'-0" BEYOND SUPPT. EA. END	#3 @ 11" o.c.	
2511	5"	#3 @ 11" o.c. STR	#3 @ 12" o.c. CONT. EXTEND 2'-0" BEYOND SUPPT. EA. END	#3 @ 11" o.c.	
2512	4"	#3 @ 6" o.c. STR	#3 @ 5" o.c. @ 6" o.c. OVER SUPPT. BETWEEN 2512 & 2513	#3 @ 12" o.c.	
2513	4"	#3 @ 6" o.c. STR	#3 @ 5" o.c. @ 6" o.c. OVER SUPPT. BETWEEN 2513 & 2514	#3 @ 12" o.c.	
2514	5"	#3 @ 11" o.c. STR	#3 @ 11" o.c. EXTEND 2'-0" BEYOND CTR. OF SUPPT. EA. END	#3 @ 11" o.c.	
2515	5"	#3 @ 11" o.c. STR	#3 @ 5" o.c. @ 9" o.c. CTR. OVER SUPPT.	#3 @ 11" o.c.	
2516	5"	#3 @ 11" o.c. STR	#3 @ 5" o.c. @ 9" o.c. CTR. OVER SUPPT.	#3 @ 11" o.c.	
2517	5"	#3 @ 11" o.c. STR	SEE ADJ. SLABS 259 & 2518	#3 @ 11" o.c.	
2519	5"	#3 @ 4" o.c. STR.	SEE PLAN	#3 @ 11" o.c.	
2520	5"	#3 @ 11" o.c. STR	#3 @ 5" o.c. @ 6" o.c. OVER SUPPORTS EA. END	#3 @ 11" o.c.	
2521	5"	#3 @ 11" o.c. STR	SEE ADJ. SPANS 2511 & 2520	#3 @ 11" o.c.	
2522	5"	#3 @ 11" o.c. STR	#3 @ 11" o.c. CONT. EXTEND 2'-0" INT. END & 1'-0" INT. END. BEYOND SUPPT.	#3 @ 11" o.c.	

SECOND FLOOR BEAM SCHEDULE

BEAM MARK	BEAM SIZE	REINFORCING		
		LONGITUDINAL	REMARKS	STIRRUPS
2B1	16 36	5-#7 8-#9	BOTT. STR. TOP STR. FROM CANTILEVER END TO CTR. OF BEAM	#4 18" x 18" @ 16" o.c. FILL @ 8"
2B2	16 36	7-#7 8-#7	BOTT. STR. TOP STR. CONT. LAP & CTR. OF SPAN	#3 18" x 18" @ 16" o.c. FILL @ 8"
2B3	10 16	2-#6 2-#5	BOTT. STR. TOP STR. FROM EXT. SUPPT. TO CTR. OF 2B3	4-#3 18" x 18" @ 16" o.c.
2B3A	10 16	2-#6 2-#5	BOTT. STR. TOP STR. CONT. LAP & CTR. OF SPAN	4-#3 18" x 18" @ 16" o.c.
2B4	16 21	7-#8 2-#7	BOTT. STR. TOP STR. EXTEND 2'-0" BEYOND FACE OF SUPPT. EA. END	18-#3 18" x 18" @ 16" o.c.
2B5	16 33	4-#8 6-#8	BOTT. STR. TOP STR. - LAP & SPAN CENTERLINE	32-#3 18" x 18" @ 16" o.c.
2B6	16 21	7-#9 4-#8	BOTT. STR. TOP STR. EXTEND 2'-0" BEYOND FACE OF SUPPT. EA. END	22-#3 18" x 18" @ 16" o.c.
2B7	16 21	6-#7 5-#7	BOTT. STR. TOP STR. EXT. END & EXTEND INT. END 2'-0" BEYOND SUPPT.	4-#3 18" x 18" @ 16" o.c.
2B8	16 36	4-#8 6-#7	BOTT. STR. TOP STR. CONT. LAP & SPAN CENTERLINE	20-#3 18" x 18" @ 16" o.c.
2B9	16 36	4-#7 2-#7	BOTT. STR. TOP STR. FROM STAIR WALL TO CTR. OF ADJ. BEAM	38-#3 18" x 18" @ 16" o.c.
2B10	16 33	6-#7 7-#10	BOTT. STR. TOP STR. FROM CTR. OF 2B10 TO SUPPT. AT 2B10	34-#3 18" x 18" @ 16" o.c.
2B11	16 33	8-#9 10-#9	BOTT. STR. TOP STR. CONT. FROM CTR. OF 2B11 TO END OF CANTILEVER	20-#3 18" x 18" @ 16" o.c.
2B12	16 33	4-#7 2-#7	BOTT. STR. TOP STR. CONT. TO CTR. OF 2B12 TO SUPPT. AT 2B12	4-#3 18" x 18" @ 16" o.c.
2B13	16 21	4-#6 4-#7	BOTT. STR. TOP STR. CONT. TO CTR. OF 2B13 ON EA. SIDE	4-#3 18" x 18" @ 16" o.c.
2B14	16 21	5-#7 2-#7	BOTT. STR. TOP STR. EXTEND 2'-0" BEYOND FACE OF SUPPT. EA. END	4-#3 18" x 18" @ 16" o.c.
2B15	16 20	2-#7 6-#7	BOTT. STR. TOP STR. FROM SUPPT. AT COL. 108 TO CTR. OF 2B15	18-#3 18" x 18" @ 16" o.c.

SECOND FLOOR BEAM SCHEDULE

BEAM MARK	BEAM SIZE	REINFORCING		
		LONGITUDINAL	REMARKS	STIRRUPS
2B16	16 21	3-#7 2-#7	BOTT. STR. TOP STR. FROM CTR. OF 2B16 TO SUPPT. EA. END	4-#3 18" x 18" @ 16" o.c.
2B17	16 20	6-#7 2-#7	BOTT. STR. TOP STR. EXTEND 2'-0" BEYOND FACE OF SUPPT. EA. END	4-#3 18" x 18" @ 16" o.c.
2B18	16 20	4-#8 5-#8	BOTT. STR. TOP STR. FROM CTR. OF 2B18 TO CTR. OF 2B18	20-#3 18" x 18" @ 16" o.c.
2B19	16 20	4-#8 6-#8	BOTT. STR. TOP STR. FROM CTR. OF 2B19 TO CTR. OF 2B19	22-#3 18" x 18" @ 16" o.c.
2B20	16 21	2-#7 2-#7	BOTT. STR. TOP STR. FROM CTR. OF 2B20 TO CTR. OF 2B20	#3 18" x 18" @ 16" o.c.
2B21	16 21	6-#8 5-#8	BOTT. STR. TOP STR. FROM CTR. OF 2B21 TO CTR. OF 2B21	#3 18" x 18" @ 16" o.c.
2B22	16 21	6-#8 4-#7	BOTT. STR. TOP STR. FROM CTR. OF 2B22 TO SUPPT. EA. END	#3 18" x 18" @ 16" o.c.
2B23	16 21	4-#8 2-#7	BOTT. STR. TOP STR. FROM CTR. OF 2B23 TO SUPPT. EA. END	#3 18" x 18" @ 16" o.c.
2B24	16 21	5-#8 2-#7	BOTT. STR. TOP STR. EXTEND 2'-0" BEYOND SUPPT. EA. END	#3 18" x 18" @ 16" o.c.
2B25	16 36	5-#7 5-#7	BOTT. STR. TOP STR. CONT. LAP & SPAN CTR.	#3 18" x 18" @ 16" o.c.
2B26	14 36	4-#7 4-#7	BOTT. STR. TOP STR. FROM CTR. OF 2B26 TO SUPPT. EA. END	#3 18" x 18" @ 16" o.c.
2B26A	14 36	4-#7 6-#7	BOTT. STR. TOP STR. FROM CTR. OF 2B26A TO CTR. OF 2B26A	#3 18" x 18" @ 16" o.c.
2B27	14 36	2-#7 11-#9	BOTT. STR. TOP STR. CONT. LAP & SPAN CTR.	#3 18" x 18" @ 16" o.c.
2B28	16 33	12-#9 5-#8	BOTT. STR. TOP STR. - 2 LAYERS FROM CTR. OF 2B28 TO END OF CANTILEVER	63-#4 18" x 18" @ 16" o.c.
2B29	16 36	5-#8 5-#8	BOTT. STR. TOP STR. FROM CTR. OF 2B29 TO SUPPT. EA. END	26-#3 18" x 18" @ 16" o.c.
2B30	16 33	8-#9 10-#9	BOTT. STR. TOP STR. EXTEND 2'-0" BEYOND WALL SUPPT. & TO END OF CANTILEVER	25-#4 18" x 18" @ 16" o.c.
2B31	8 33	2-#6 2-#6	BOTT. STR. TOP STR. - 8" x 6" LG.	#3 18" x 18" @ 16" o.c.



TYPICAL BEAM SECTION

Henry & Kramer
Consulting Structural Engineers
Portland, Oregon

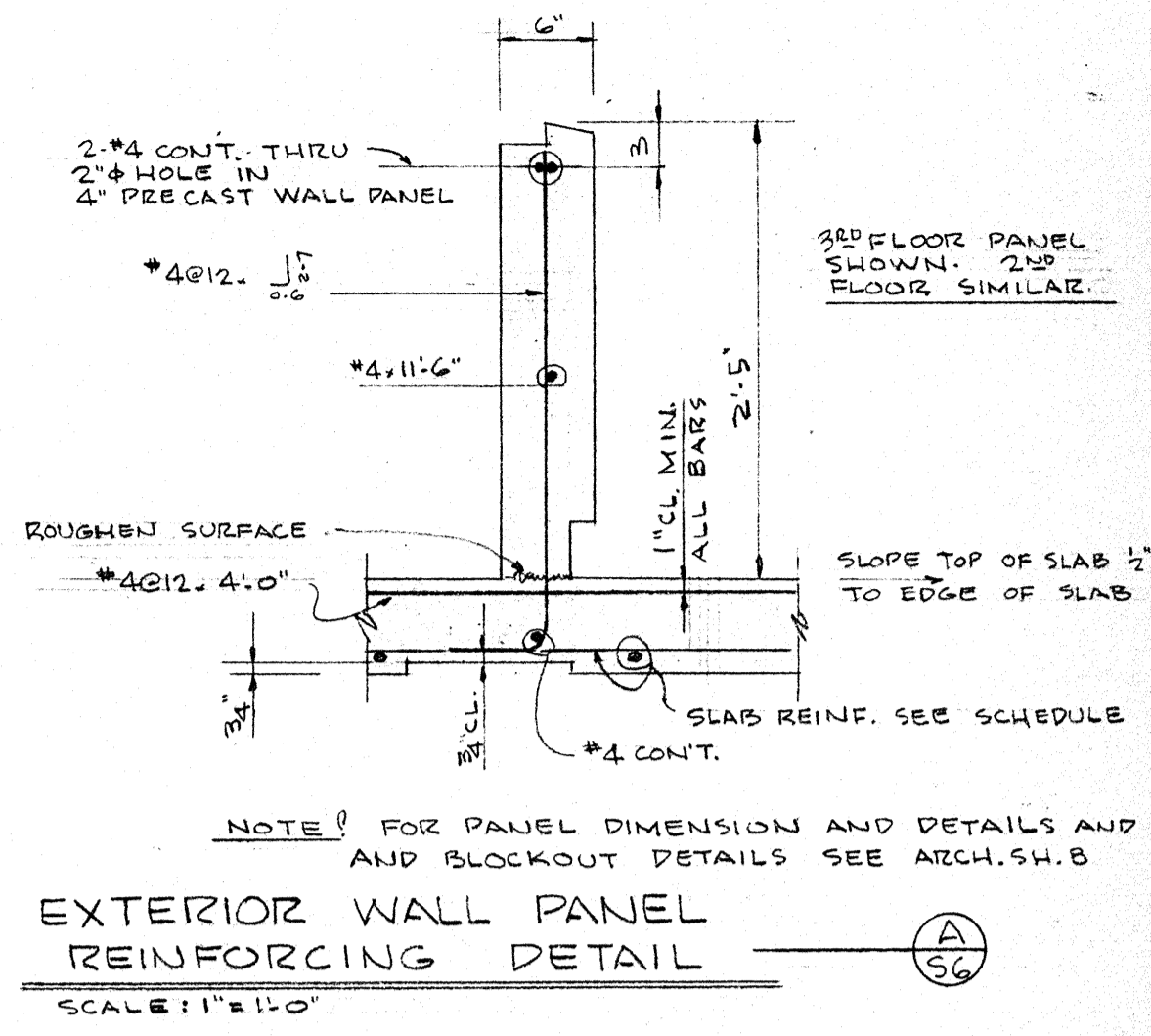
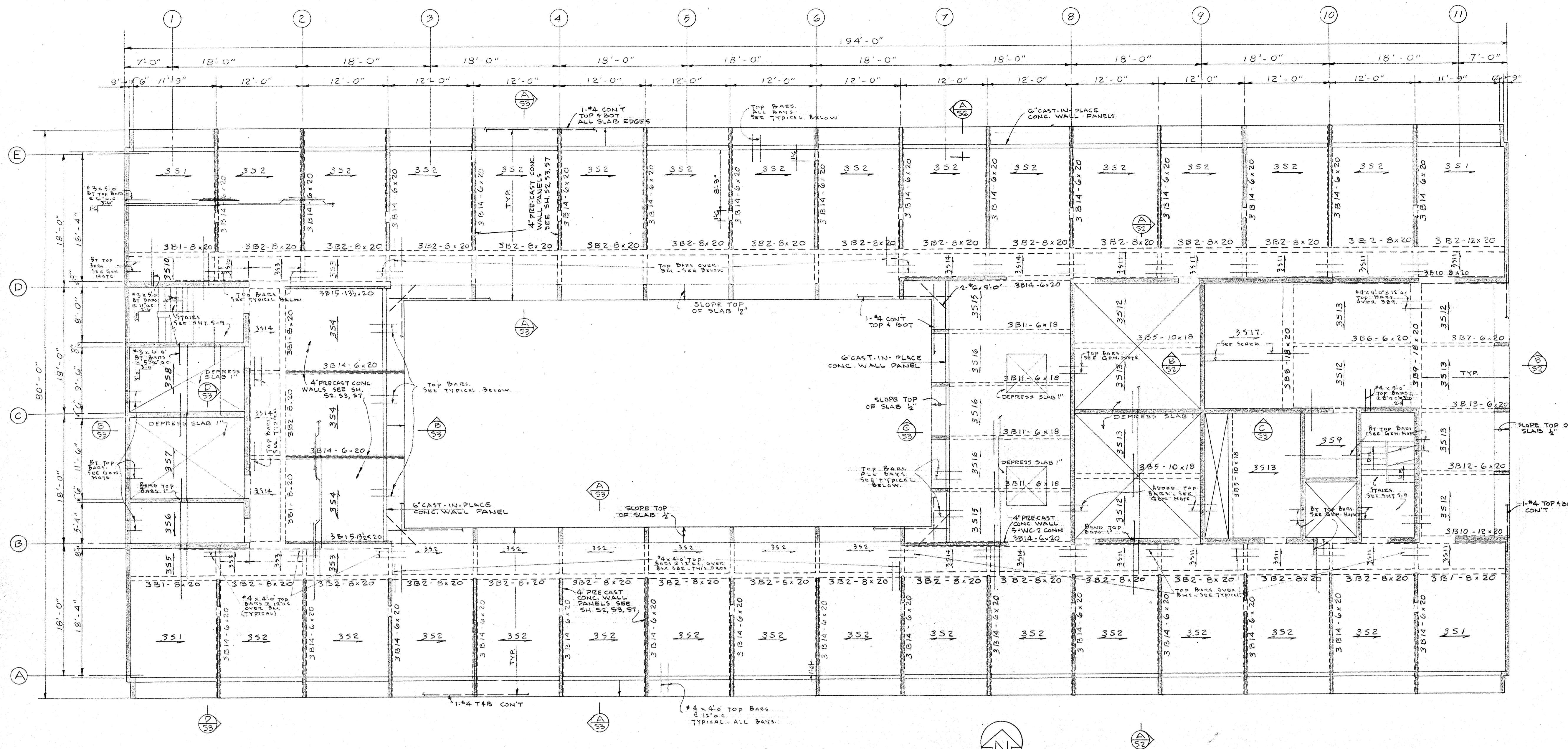
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REVISIONS DATE

Architects WILMSEN ENDICOTT & UNTHANK AIA
EUGENE OREGON 863 THIRTEENTH AVENUE EAST DIAMOND 4-8432

DORMITORY FOR STUDENT NURSES
SACRED HEART GENERAL HOSPITAL, EUGENE, OREGON

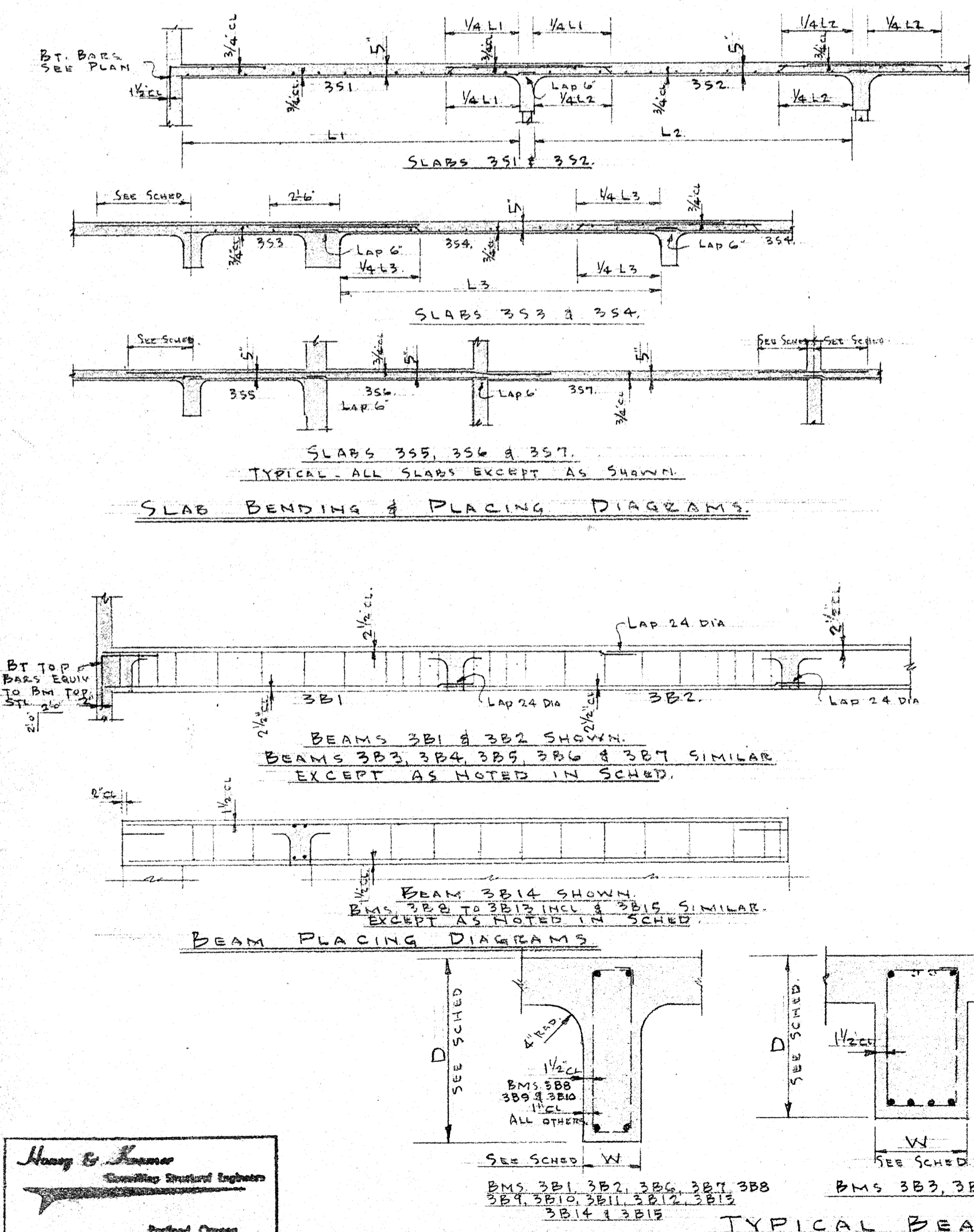
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REGISTERED ARCHITECT
EUGENE, OREGON
STATE OF OREGON



THIRD FLOOR FRAMING PLAN

NOTE: ALL BEAM INTERSECTIONS TO HAVE 4\"/>



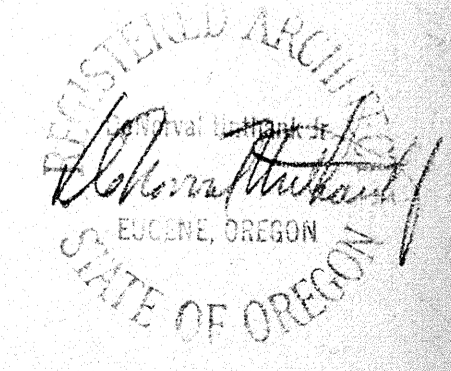
THIRD FLOOR SLAB SCHEDULE

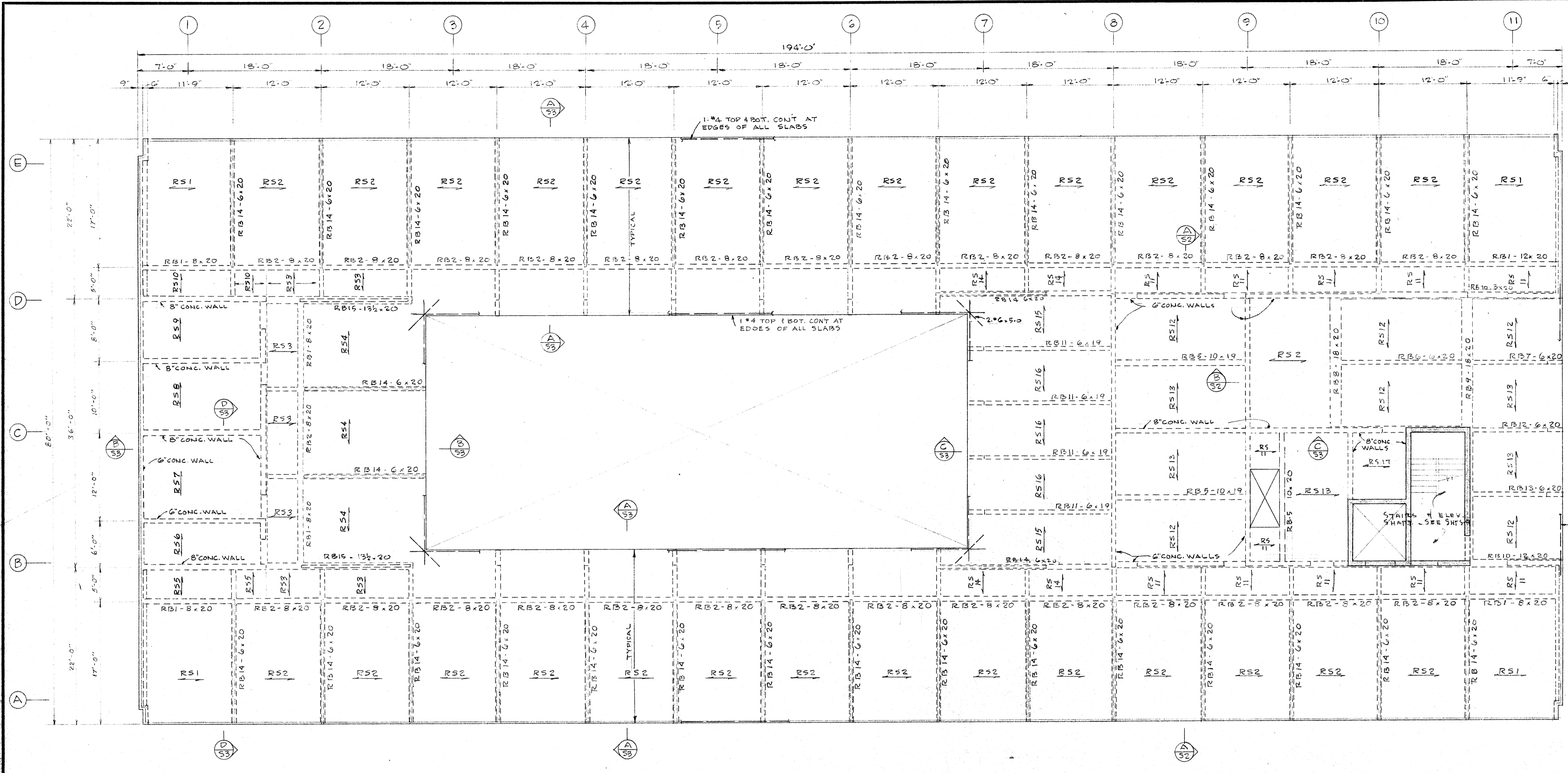
SLAB MARK	SLAB DEPTH	REINFORCING			REMARKS
		BENT OR STR. BOT. STL.	TOP STL.	TEMP. STL.	
351	5"	#3 @ 6" o.c. ALT. STR. 1 FT.	#3 @ 4'-0" @ 12" o.c. OVER SUPPT. BETWEEN 351 & 352	#3 @ 11" o.c.	
352	5"	#3 @ 6" o.c. ALT. STR. 1 FT.	#3 @ 4'-0" @ 18" o.c. CTR. OVER SUPPTS.	#3 @ 11" o.c.	
353	5"	#3 @ 11" o.c. STR.	#3 @ 10" o.c. EXTEND 3'-6" BEYOND CTR. OF SUPPT. EA. END	#3 @ 11" o.c.	
354	5"	#3 @ 5 1/2" o.c. ALT. STR. 1 FT.	#3 @ 4'-0" @ 18" o.c. CTR. OVER ALL SUPPTS.	#3 @ 11" o.c.	
355	5"	#3 @ 11" o.c. STR.	#3 @ 12" o.c. - CONT. OVER SLABS 355 & 356 BEYOND 30" BEYOND SUPPT.	#3 @ 11" o.c.	
356	5"	#3 @ 11" o.c. STR.	#3 @ 10" o.c. - CONT. OVER SLABS 355 & 356 BEYOND 30" BEYOND SUPPT.	#3 @ 11" o.c.	
357	5"	#3 @ 5 1/2" o.c. STR.	#3 @ 6" o.c. @ 4' o.c. OVER SUPPT. BETWEEN 357 & 358	#3 @ 11" o.c.	
358	5"	#3 @ 6" o.c. STR.	#3 @ 5'-0" @ 12" o.c. OVER INT. WALL. PER PLAN. 3'-6" OVER SUPPT. PER PLAN. 3'-6" OVER SUPPT. PER PLAN. 3'-6" OVER SUPPT. PER PLAN.	#3 @ 11" o.c.	
359	5"	#3 @ 11" o.c. STR.	#3 @ 5'-0" @ 12" o.c. OVER INT. WALL. PER PLAN. 3'-6" OVER SUPPT. PER PLAN. 3'-6" OVER SUPPT. PER PLAN.	#3 @ 11" o.c.	
3510	5"	#3 @ 11" o.c. STR.	#3 @ 11" o.c. - EXTEND 2'-0" BEYOND CTR. OF SUPPT. EA. END.	#3 @ 11" o.c.	
3511	5"	#3 @ 11" o.c. STR.	#3 @ 5'-0" @ 12" o.c. OVER SUPPT. EA. END	#3 @ 11" o.c.	
3512	4"	#3 @ 6" o.c. STR.	#3 @ 6" o.c. @ 4' o.c. CTR. OVER SUPPT. BETWEEN 3512 & 3513	#3 @ 12" o.c.	
3513	4"	#3 @ 6" o.c. STR.	#3 @ 6" o.c. @ 4' o.c. CTR. OVER SUPPT.	#3 @ 12" o.c.	
3514	5"	#3 @ 11" o.c. STR.	#3 @ 11" o.c. - EXTEND 2'-0" BEYOND CTR. OF SUPPT. EA. END	#3 @ 11" o.c.	
3515	5"	#3 @ 11" o.c. STR.	#3 @ 5'-0" @ 12" o.c. CTR. OVER SUPPTS.	#3 @ 11" o.c.	
3516	5"	#3 @ 11" o.c. STR.	#3 @ 5'-0" @ 12" o.c. CTR. OVER SUPPTS.	#3 @ 11" o.c.	
3517	5"	#3 @ 6 1/2" o.c. STR.	#3 @ 6" o.c. @ 2' o.c. OVER SUPPTS.	#3 @ 11" o.c.	

THIRD FLOOR BEAM SCHEDULE

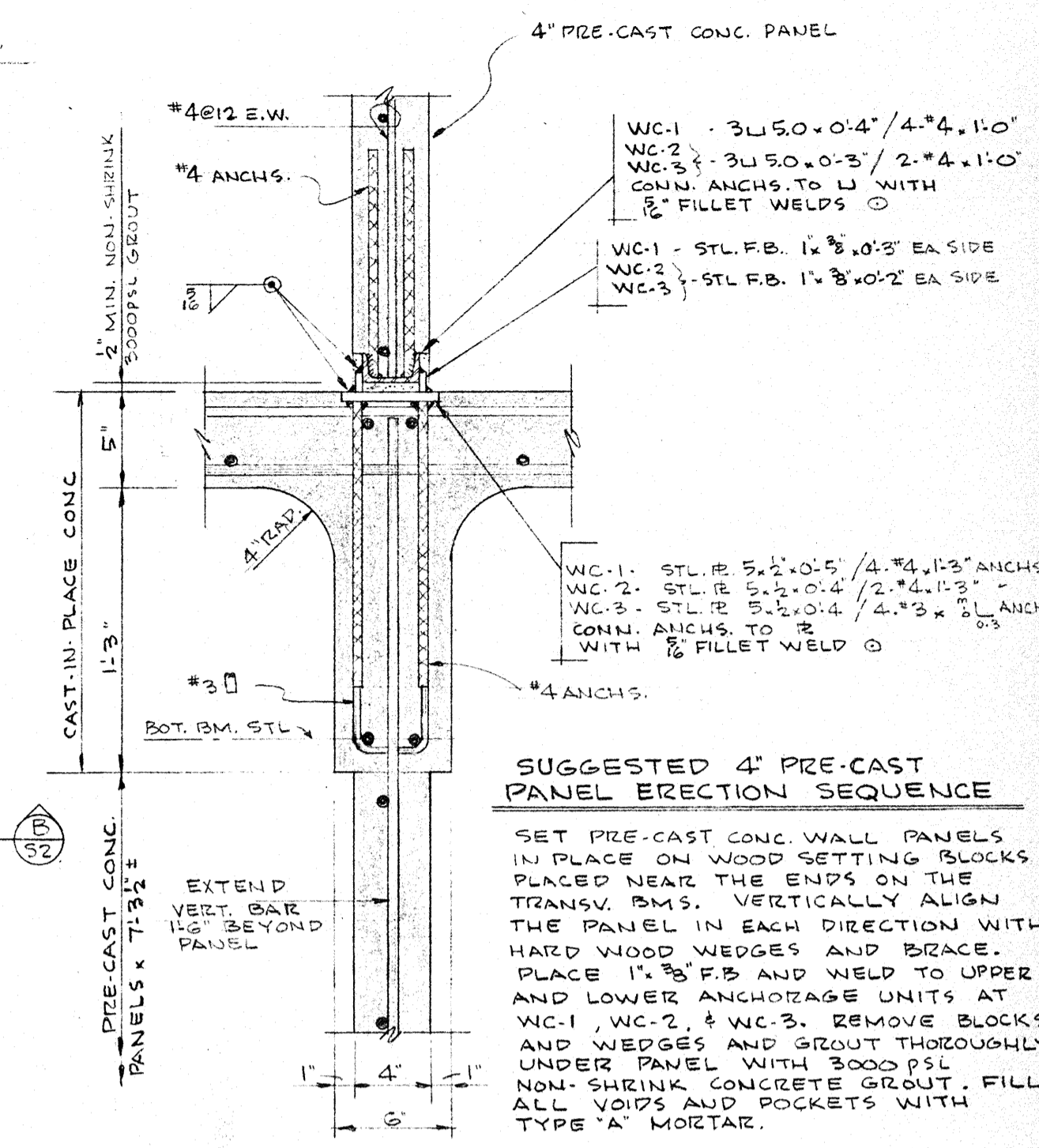
BEAM MARK	BEAM SIZE	REINFORCING			STIRRUPS		
		W	D	LONGITUDINAL			
3B1	8 x 20			2-#5	BOTT. STR.	#3	1 @ 4' 3 3/8" FILL @ 18" o.c.
				2-#5	TOP STR. FROM EXT. SUPPT. TO CTR. OF 120. 3B2		
3B2	8 x 20			1-#4	TOP STR. 5'-0" LG. CTR. OVER 1ST INT. SUPPT.	#3	1 @ 4' 10 5/8" FILL @ 18" o.c.
				2-#5	BOTT. STR.		
				2-#5	TOP STR. CONT. - LAP @ SPAN CTR.		
3B5	10 x 18			4-#7	BOTT. STR.	#3	1 @ 4' 6 @ 7" FILL @ 18" o.c.
				2-#6	TOP STR. CONT. - EXTEND 2'-0" BEYOND SUPPT. EA. END		
3B6	6 x 20			4-#6	BOTT. STR. (2 LAYERS)	#3	1 @ 4' 10 @ 8" FILL @ 18" o.c.
				2-#6	TOP STR. CONT. OVER BMS 3B6 & 3B7		
3B7	6 x 20			2-#7	BOTT. STR.	#3	1 @ 4' 6 @ 8" FILL @ 18" o.c.
				2-#6	TOP STR. - 9'-0" LG. CTR. OVER SUPPT. @ 3B7		
3B8	18 x 20			4-#7	BOTT. STR.	#3	1 @ 4' 13 @ 8" FILL @ 18" o.c.
				2-#7	TOP STR. - EXTEND 2'-0" BEYOND SUPPT. EA. END		
				4-#7	TOP STR. - 9'-0" LG. CTR. OVER WALL AT LINE "C"		
3B9	18 x 20			7-#7	BOTT. STR.	#3	1 @ 4' FILL @ 8"
				2-#7	TOP STR. CONT. - EXTEND 2'-0" BEYOND SUPPT. EA. END		
				6-#7	TOP STR. - 10'-0" LG. CTR. OVER INT. STAIR WALL		
3B10	12 x 20			2-#5	BOTT. STR.	#3	1 @ 4' 1 @ 8" FILL @ 18" o.c.
				2-#5	TOP STR. CONT. - EXTEND 2'-0" BEYOND SUPPT. EA. END		
3B11	6 x 18			4-#7	BOTT. STR. (2 LAYERS)	#3	1 @ 4' 9 @ 7" FILL @ 18" o.c.
				3-#7	TOP STR. - EXTEND 2'-0" BEYOND SUPPT. EA. END		
3B12	6 x 20			2-#6	BOTT. STR.	#3	1 @ 4' 4 @ 8" FILL @ 18" o.c.
				2-#6	TOP STR. - EXTEND 2'-0" INTO STAIR WALL INT. END		
3B13	6 x 20			2-#5	BOTT. STR.	#3	1 @ 4' 4 @ 8" FILL @ 18" o.c.
				2-#6	TOP STR.		
3B14	6 x 20			2-#5	BOTT. STR.	#3	1 @ 4' 1 @ 8" FILL @ 18" o.c.
				2-#4	TOP STR.		
3B15	12 x 20			3-#5	BOTT. STR.	#3	1 @ 4' 1 @ 8" FILL @ 18" o.c.
				3-#4	TOP STR.		

INFORMATION ONLY

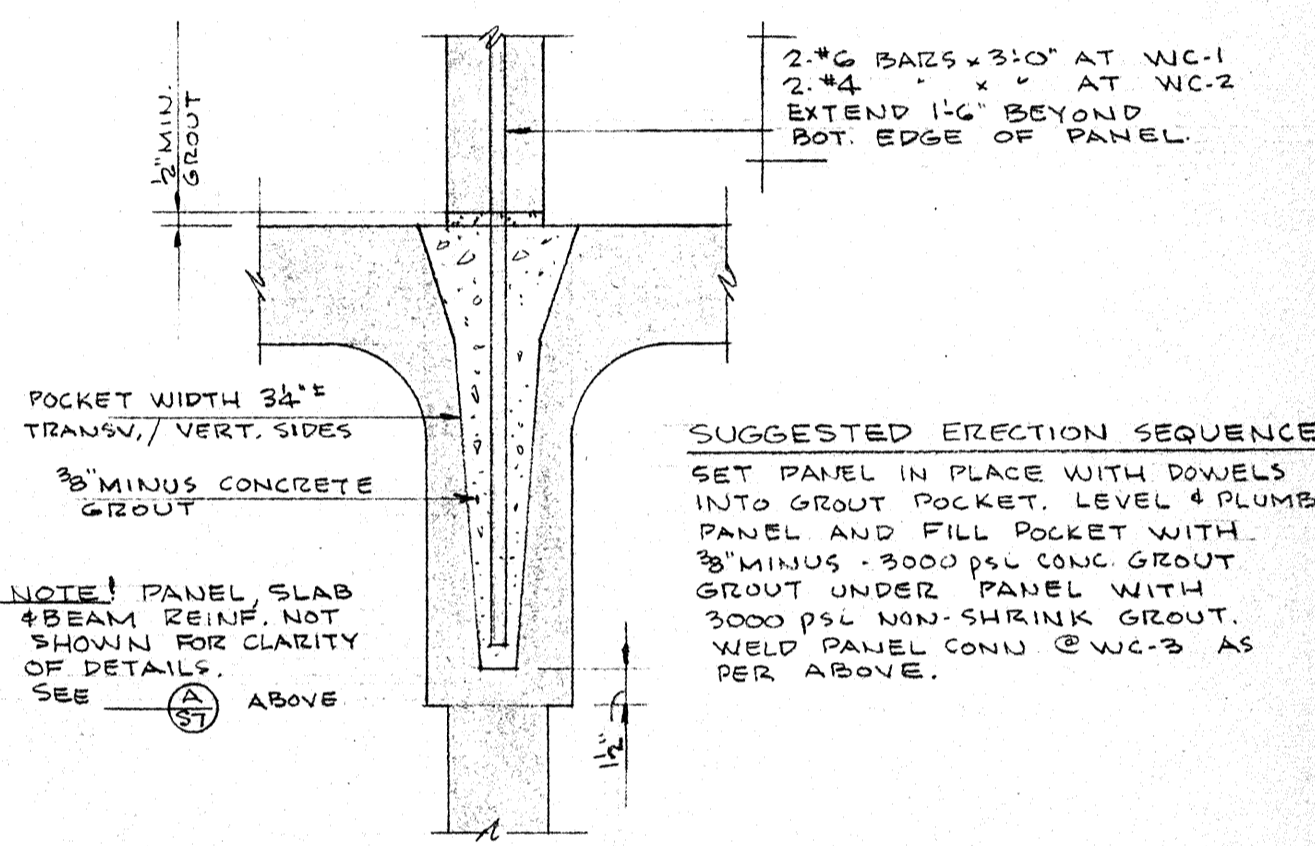




ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"



TYPICAL SECTION AND CONNECTION OF PRE-CAST CONCRETE WALL PANELS
SCALE: 1/2" = 1'-0"



ALTERNATE CONN. OF PRE-CAST WALL PANELS AT WC-1 & WC-2
SCALE: 1/2" = 1'-0"

NOTES
1. SHORING OR RE-SHORING FOR ALL FLOORS INCLUDING ROOF TO REMAIN IN PLACE UNTIL CONCRETE STRENGTH OF ROOF SLAB CONFORMS WITH DESIGN SPECIFICATIONS.
2. ALL BEAM INTERSECTIONS TO HAVE 4" RAD. CORNERS IN HORIZ. PLANE AS SHOWN ON REFLECTED CEILING PLAN - ARCH. SHT. #12
3. SEE SHT. 5-6 FOR TYPICAL BEAM & SLAB PLACING DIAGRAMS. TYPICAL BEAM SECTIONS & ADDED TOP STEEL OVER BEAMS & WALLS, ALSO BT BARS AT WALL-SLAB INTERSECTIONS TO BE PROVIDED AS SHOWN ON SHTS. 5-6 UNLESS OTHERWISE SHOWN ON PLAN ABOVE.

ROOF SLAB SCHEDULE

SLAB MARK	SLAB DEPTH	REINFORCING			REMARKS
		BENT OR BOT. STL.	TOP STL.	TEMP. STL.	
RS1	5"	#3 @ 9" O.C. ALT. STR. 1 FT.	#3 @ 18" O.C. 4'-0" TO 18" O.C. 4'-0" 1/2" ADDED OVER INT. SUPPTS.	#3 @ 11" O.C.	
RS2	5"	#3 @ 9" O.C. ALT. STR. 1 FT.	#3 @ 18" O.C. 4'-0" TO 18" O.C. 4'-0" 1/2" ADDED OVER INT. SUPPTS.	#3 @ 11" O.C.	
RS3	5"	#3 @ 11" O.C. STR.	#3 @ 12" O.C. EXTEND 2'-6" BEYOND CTR. OF SUPPT. EA. END	#3 @ 11" O.C.	
RS4	5"	#3 @ 9" O.C. ALT. STR. 1 FT.	#3 @ 18" O.C. 4'-0" TO 18" O.C. 4'-0" 1/2" ADDED OVER ALL SUPPTS.	#3 @ 11" O.C.	
RS5	5"	#3 @ 11" O.C. STR.	#3 @ 18" O.C. CONT. OVER SLABS RS5 & RS6. EXTEND 2'-6" BEYOND SUPPT.	#3 @ 11" O.C.	
RS6	5"	#3 @ 11" O.C. STR.	SEC. RS5 ABOVE ADD #3 @ 12" O.C. 2'-6" OVER SUPPT. BETWEEN RS7 & RS8	#3 @ 11" O.C.	
RS7	5"	#3 @ 7" O.C. STR.	#3 @ 12" O.C. 2'-6" OVER SUPPT. BETWEEN RS7 & RS8	#3 @ 11" O.C.	
RS8	5"	#3 @ 11" O.C. STR.	#3 @ 18" O.C. BARS @ 9" O.C. OVER SUPPT. BETWEEN RS8 & RS9	#3 @ 11" O.C.	
RS9	5"	#3 @ 11" O.C. STR.	SEE ADJ. SLABS	#3 @ 11" O.C.	
RS10	5"	#3 @ 11" O.C. STR.	#3 @ 12" O.C. EXTEND 2'-6" BEYOND CTR. OF SUPPT. EA. END	#3 @ 11" O.C.	
RS11	5"	#3 @ 11" O.C. STR.	#3 @ 11" O.C. EXTEND 2'-6" BEYOND CTR. OF SUPPT. EA. END	#3 @ 11" O.C.	
RS12	5"	#3 @ 11" O.C. STR.	#3 @ 10" O.C. CTR. OVER SUPPT. BETWEEN RS12 & RS13	#3 @ 11" O.C.	
RS13	5"	#3 @ 11" O.C. STR.	#3 @ 12" O.C. EXTEND 2'-6" BEYOND CTR. OF SUPPT. EA. END	#3 @ 11" O.C.	
RS14	5"	#3 @ 11" O.C. STR.	#3 @ 12" O.C. EXTEND 2'-6" BEYOND CTR. OF SUPPT. EA. END	#3 @ 11" O.C.	
RS15	5"	#3 @ 11" O.C. STR.	#3 @ 12" O.C. EXTEND 2'-6" BEYOND CTR. OF SUPPT. EA. END	#3 @ 11" O.C.	
RS16	5"	#3 @ 11" O.C. STR.	#3 @ 12" O.C. EXTEND 2'-6" BEYOND CTR. OF SUPPT. EA. END	#3 @ 11" O.C.	
RS17	5"	#3 @ 11" O.C. STR.	#3 @ 12" O.C. EXTEND 2'-6" BEYOND CTR. OF SUPPT. EA. END	#3 @ 11" O.C.	

ROOF BEAM SCHEDULE

BEAM MARK	BEAM SIZE	REINFORCING		REMARKS	STIRRUPS
		NO	SIZE		
RB1	8 x 20	1-#5	BOTT. STR.		
		1-#5	TOP STR. FROM EXT. SUPP. TO CTR. OF ADJ. BEAM	#3	1 @ 6" FILL @ 18"
		1-#4	TOP STR. CONT. - CTR. OVER INT. SUPPT.		
RB2	8 x 20	1-#5	BOTT. STR.		#3 1 @ 6" FILL @ 18"
		1-#5	TOP STR. CONT. - LAP @ SPAN CTRS.		
RB3	10 x 19	4-#5	BOTT. STR.		
		2-#5	TOP STR. CONT. OVER INT. SUPP. 18" O.C. EXTEND 2'-6" BEYOND SUPPT.	#3	1 @ 6" FILL @ 18"
		2-#5	TOP STR. 7'-0" LO. CTR. OVER WALL OR ELEV. SHAFT.		
RB5	10 x 20	4-#6	BOTT. STR.		#3 1 @ 6" FILL @ 18"
		2-#6	TOP STR. CONT. - EXTEND 2'-6" BEYOND SUPPT. EA. END		
RB6	6 x 20	2-#7	BOTT. STR.		#3 1 @ 4" 6 @ 8" FILL @ 18"
		2-#5	TOP STR. CONT. OVER INT. SUPPT.		
RB7	6 x 20	1-#6	BOTT. STR.		#3 1 @ 4" 4 @ 8" FILL @ 18"
		2-#5	TOP STR. 7'-0" LO. CTR. OVER SUPPT. AT RB7		
RB8	18 x 20	4-#6	BOTT. STR.		
		2-#5	TOP STR. CONT. - EXTEND 2'-6" BEYOND SUPPT. EA. END	#3	1 @ 6" FILL @ 18"
		3-#6	TOP STR. 7'-0" LO. CTR. OVER WALL AT LIME CT.		
RB9	18 x 20	5-#7	BOTT. STR.		#3 1 @ 6" FILL @ 18"
		2-#5	TOP STR. CONT. - EXTEND 2'-6" BEYOND SUPPT. EA. END		
		5-#6	TOP STR. 7'-0" LO. CTR. OVER WALL INTO STAIR WALL.		
RB10	12 x 20	2-#5	BOTT. STR.		#3 1 @ 6" FILL @ 18"
		2-#5	TOP STR. CONT. - EXTEND 2'-6" BEYOND SUPPT. EA. END		
RB11	6 x 19	3-#7	BOTT. STR.		#3 1 @ 4" 4 @ 8" FILL @ 18"
		2-#7	TOP STR. - EXTEND 2'-6" BEYOND SUPPT. INT. END		
RB12	6 x 20	2-#5	BOTT. STR.		#3 1 @ 6" FILL @ 18"
		2-#5	TOP STR. - EXTEND 2'-6" INTO STAIR WALL - INT. END		
RB13	6 x 20	2-#5	BOTT. STR.		#3 1 @ 6" FILL @ 18"
		2-#5	TOP STR.		
RB14	6 x 20	2-#4	BOTT. STR.		#3 1 @ 6" FILL @ 18"
		2-#4	TOP STR.		
RB15	1 1/2 x 20	3-#5	BOTT. STR.		#3 1 @ 4" 1 @ 8" FILL @ 18"
		3-#4	TOP STR.		

INFORMATION ONLY

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APPROVED: [Signature]
DRAWN: [Signature]
DATE: 7/8/63
JOB: 395-62

REGISTERED ARCHITECT
D. M. [Signature]
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57