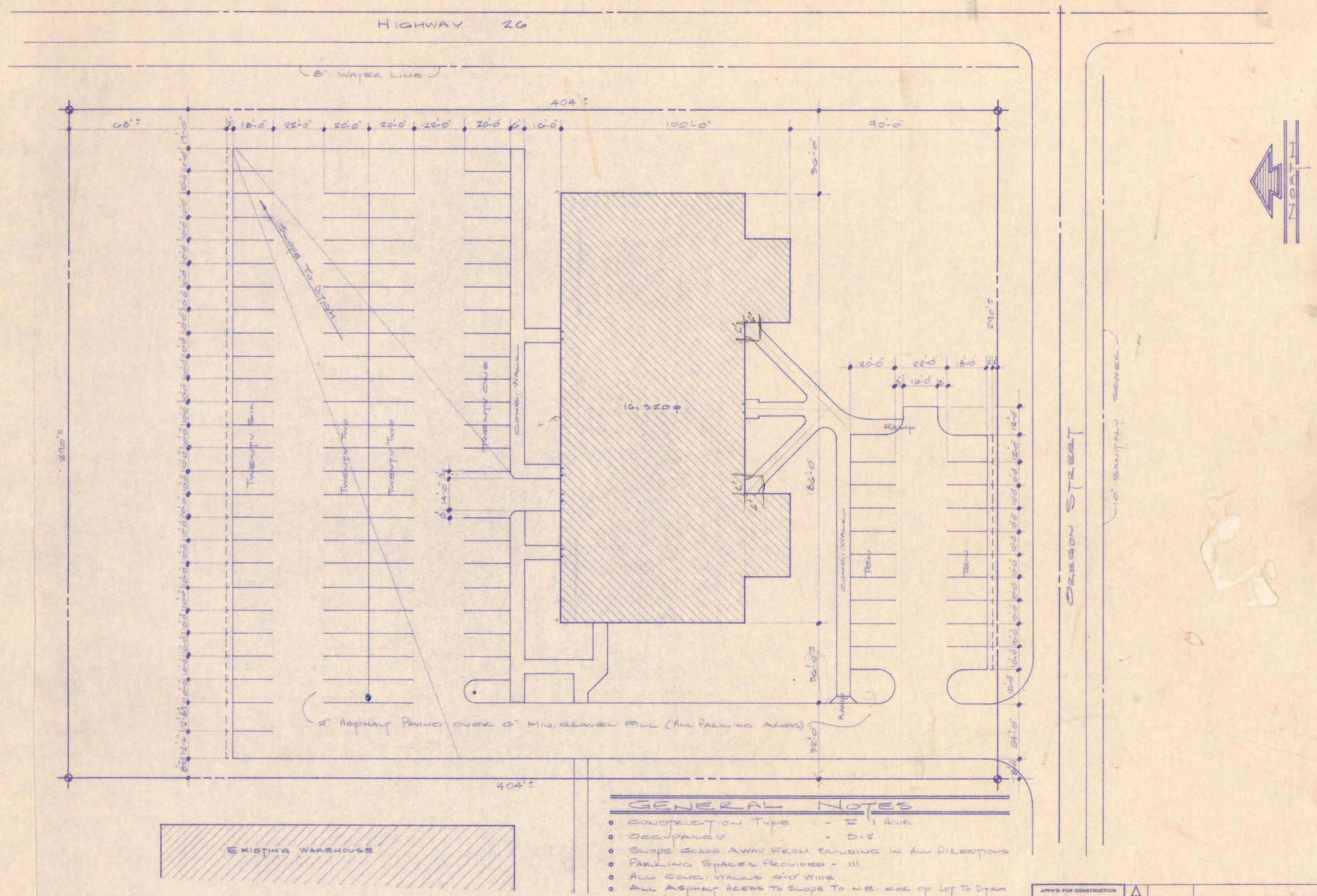
MATERIAL SCHEDULE			
ITEM	REQ.	DESCRIPTION	DIMENSION



GENERAL NOTES

- CONSTRUCTION TYPE - V 1 HOUR
- OCCUPANCY - B-2
- SLOPE GRADE AWAY FROM BUILDING IN ALL DIRECTIONS
- PARKING SPACES PROVIDED - 111
- ALL CONC. WALKS 6'-0" WIDE
- ALL ASPHALT AREAS TO SLOPE TO N.E. EDGE OF LOT TO DITCH
- SEE LEGAL DESCRIPTION ATTACHED.

PLOT PLAN SCALE 1"=20'-0"

APPV'D FOR CONSTRUCTION				
DATE	REV.	DATE	EXPLANATION	BY

REGISTERED PROFESSIONAL ENGINEER 4480 OREGON OCT. 30, 1979 ROBERT J. HILL

Robert J. Hill

6-30-82

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B.L.M. DISTRICT OFFICE
VALE, OREGON

DATE DRAWN: | DRAWN BY: | DATE CHECKED: | CHECKED BY: | SCALE: | DRAWING NO.

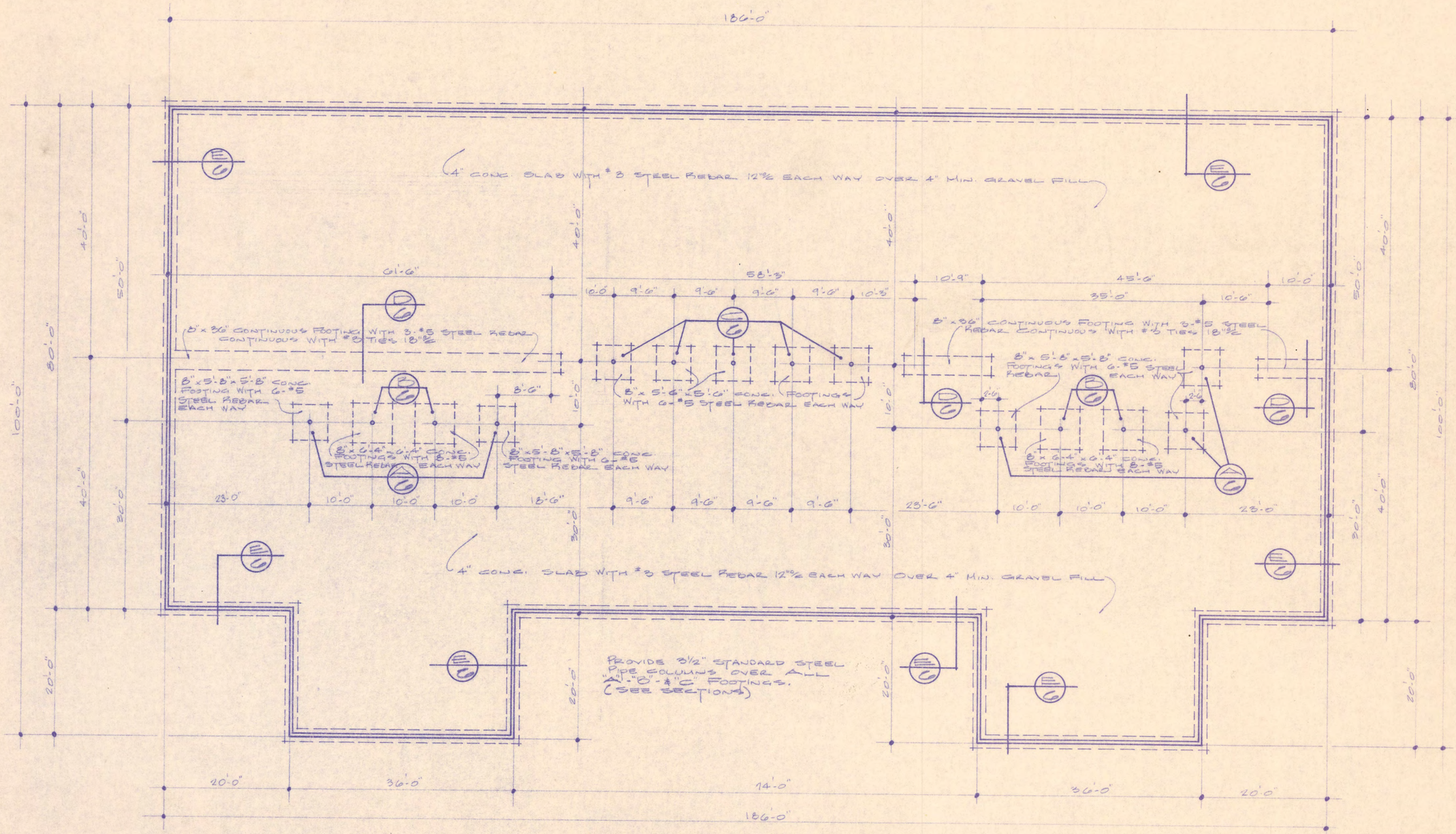
R. J. HILL ENGINEERING CO. 8285.1

EUGENE, OREGON

REV. NO.

1/15

MATERIAL SCHEDULE			
ITEM	REQ.	DESCRIPTION	DIMENSION



FOUNDATION PLAN

SCALE 1/8" = 1'-0"

APPV'D FOR CONSTRUCTION				
DATE	REV.	DATE	EXPLANATION	BY

REGISTERED PROFESSIONAL ENGINEER 4480 OREGON OCT. 30, 1979 ROBERT J. HILL

6-30-82

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B.L.M. DISTRICT OFFICE
VALE, OREGON

DATE DRAWN:	DRAWN BY:	DATE CHECKED:	CHECKED BY:	SCALE

R. J. HILL ENGINEERING CO.
EUGENE, OREGON

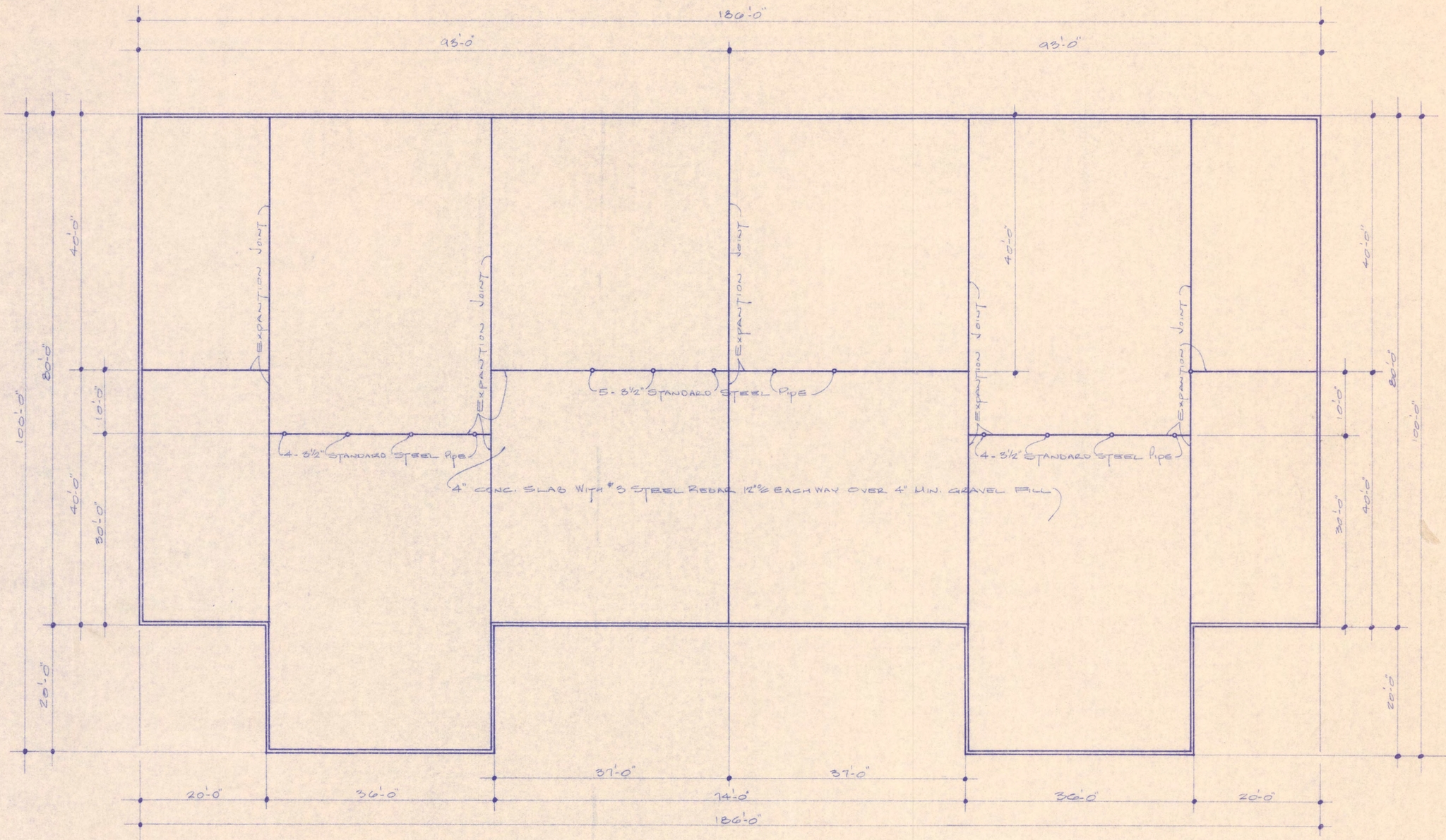
DRAWING NO. 8205

REV. NO.

2/13

BULLFROG ENTERPRISES, EUGENE, OR.

MATERIAL SCHEDULE			
ITEM	REQ.	DESCRIPTION	DIMENSION



EXPANSION JOINT PLAN SCALE 1/8" = 1'-0"

3/15

APPV'D FOR CONSTRUCTION					
DATE		REV.	DATE	EXPLANATION	BY

REGISTERED PROFESSIONAL ENGINEER 4480 Robert J. Hill OREGON OCT. 30, 1979 ROBERT J. HILL

6-30-82

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B.L.M. DISTRICT OFFICE
VALE, OREGON

DATE DRAWN:	DRAWN BY: JOH	DATE CHECKED:	CHECKED BY:	SCALE

R. J. HILL ENGINEERING CO.
EUGENE, OREGON

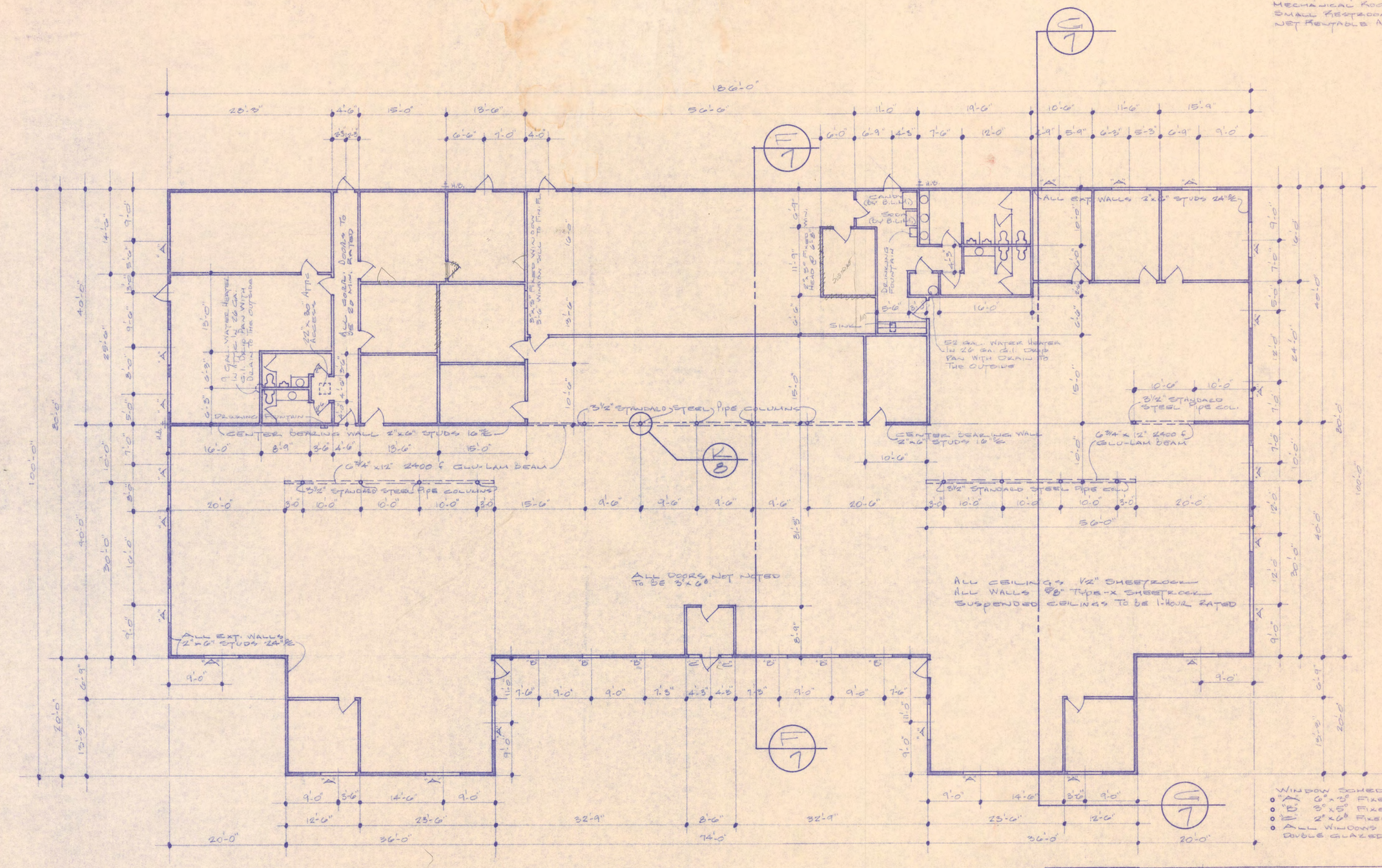
DRAWING NO. 82052

REV. NO.

HILLFORD ENTERPRISES, EUGENE, OR.

MATERIAL SCHEDULE			
ITEM	REQ.	DESCRIPTION	DIMENSION

TOTAL AREA	16,340 ♯
6" PERIMETER WALLS	306 ♯
VESTIBULE	64 ♯
HANDICAP RESTROOMS	360 ♯
MECHANICAL ROOM	224 ♯
SMALL RESTROOMS	164 ♯
NET RENTABLE AREA	15,191 ♯



WINDOW SCHEDULE
- "A" 6'x3' FIXED
- "B" 3'x5' FIXED
- "C" 2'x6' FIXED 3/16" TEMP. GL.
- ALL WINDOWS WILL BE DOUBLE GLAZED

4/5

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

APPV'D FOR CONSTRUCTION				
DATE	REV.	DATE	EXPLANATION	BY

REGISTERED PROFESSIONAL ENGINEER 4480 OREGON OCT. 30, 1979 ROBERT J. HILL

6-30-82

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B.L.M. DISTRICT OFFICE
VALE, OREGON

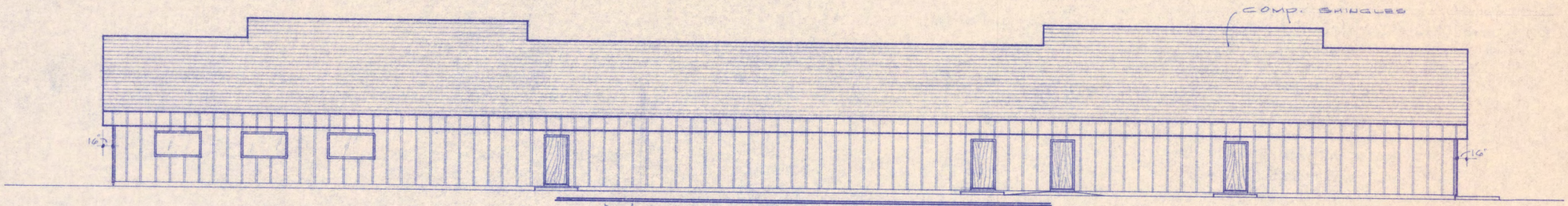
DATE DRAWN:	DRAWN BY:	DATE CHECKED:	CHECKED BY:	SCALE

R. J. HILL ENGINEERING CO.
EUGENE, OREGON

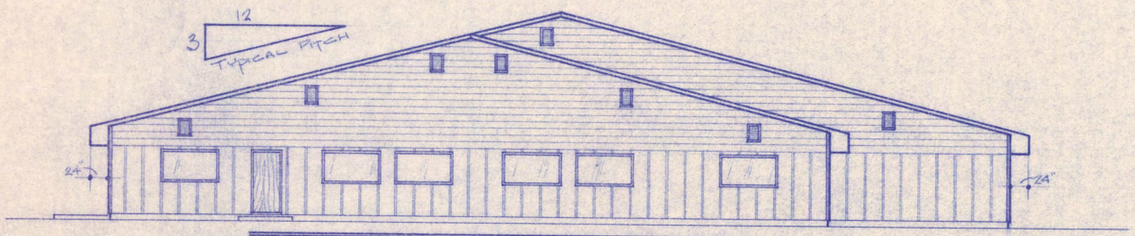
DRAWING NO. 8205E

REV. NO.

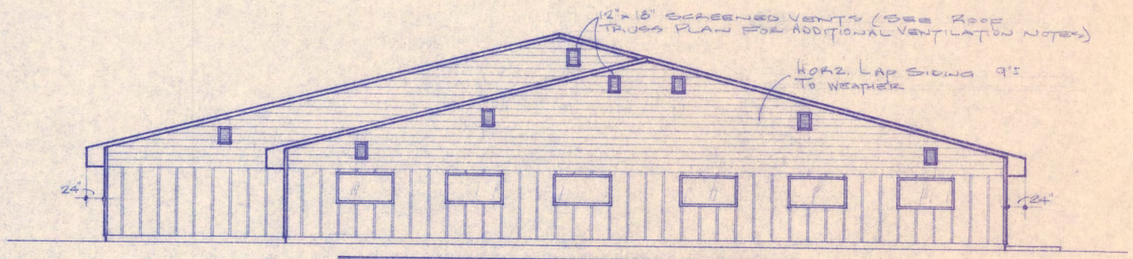
MATERIAL SCHEDULE			
ITEM	REQ.	DESCRIPTION	DIMENSION



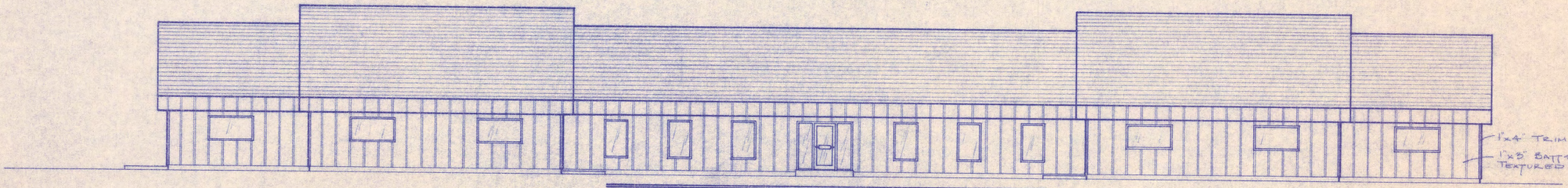
NORTH ELEVATION



WEST ELEVATION



EAST ELEVATION



SOUTH ELEVATION

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

5/15

APPV'D FOR CONSTRUCTION				
DATE		REV.	DATE	EXPLANATION	BY

REGISTERED PROFESSIONAL ENGINEER 4480 OREGON OCT. 30, 1979 ROBERT J. HILL

Robert J. Hill

6-30-82

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B.L.M. DISTRICT OFFICE
VALE, OREGON

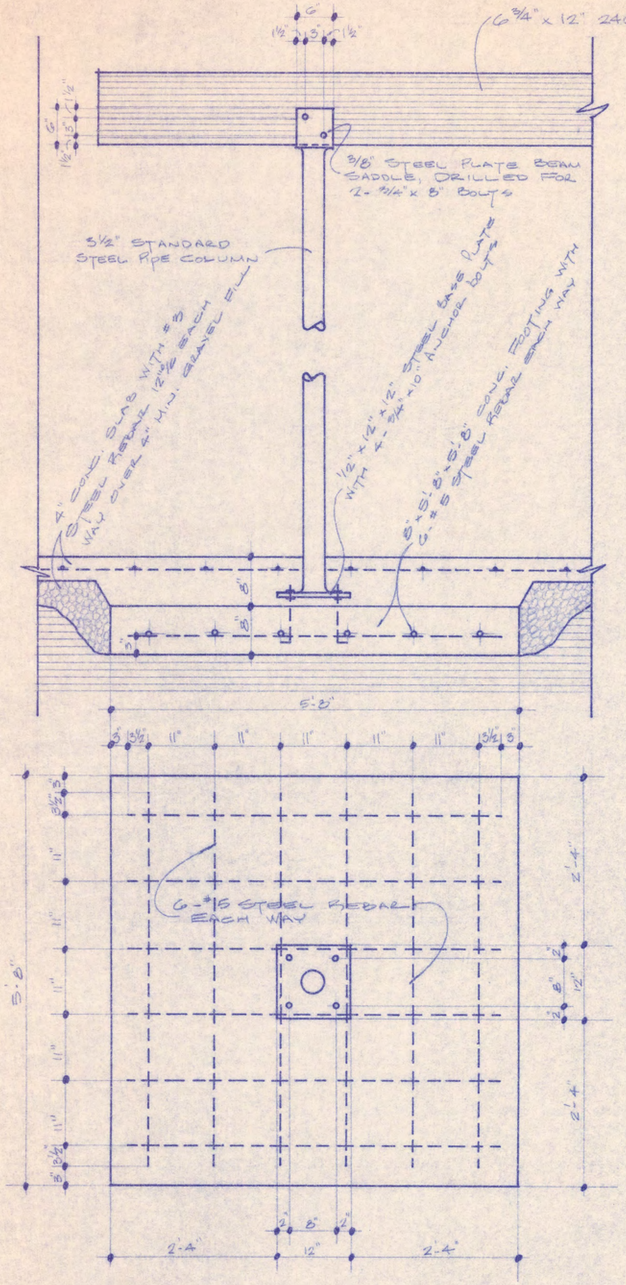
DATE DRAWN:	DRAWN BY: SMM	DATE CHECKED:	CHECKED BY:	SCALE

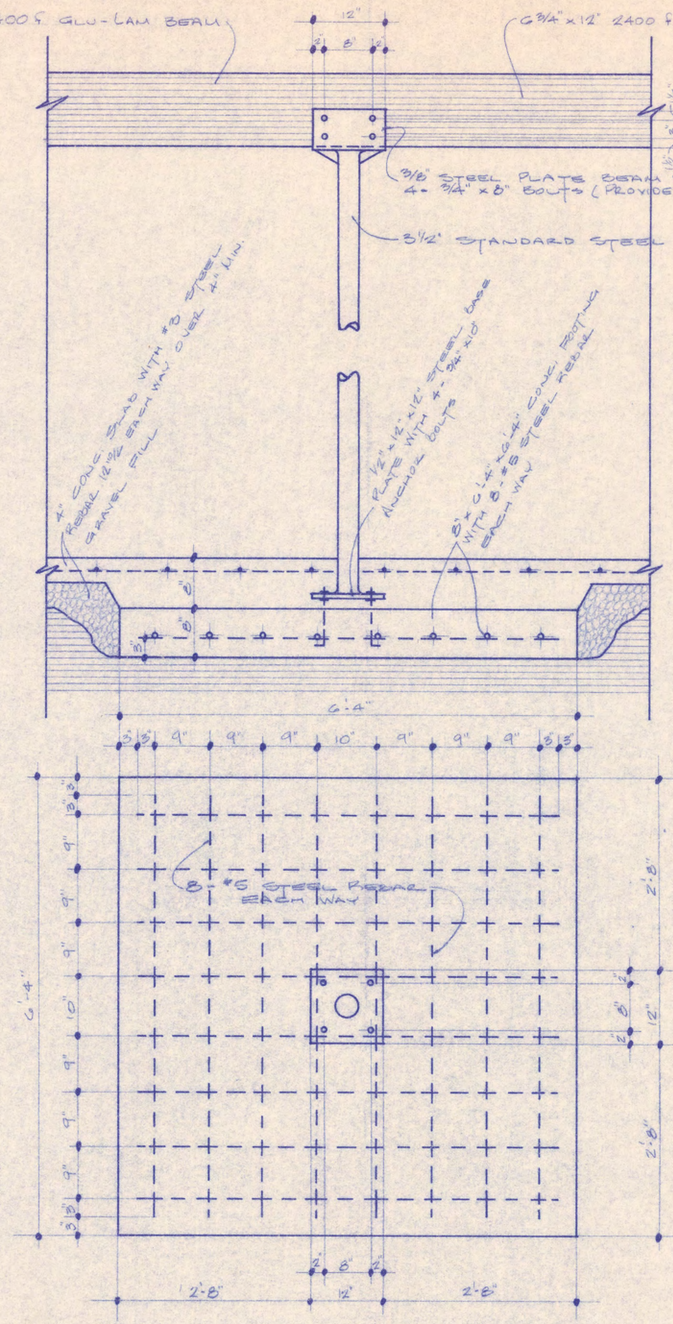
R. J. HILL ENGINEERING CO.
EUGENE, OREGON

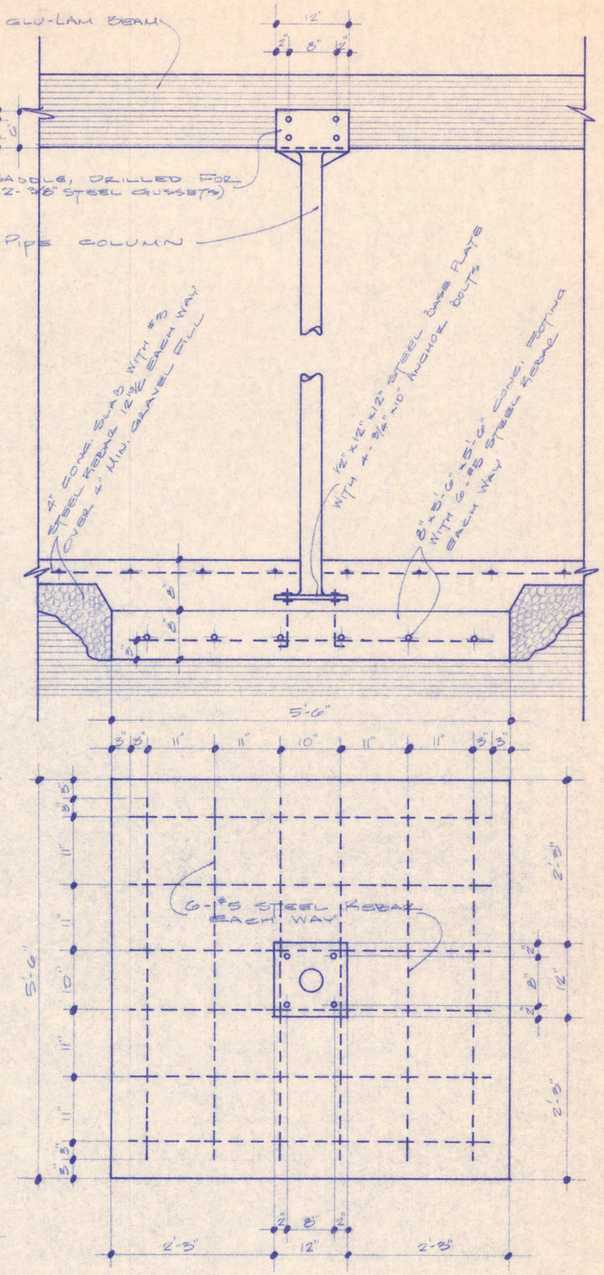
DRAWING NO. 8205 E

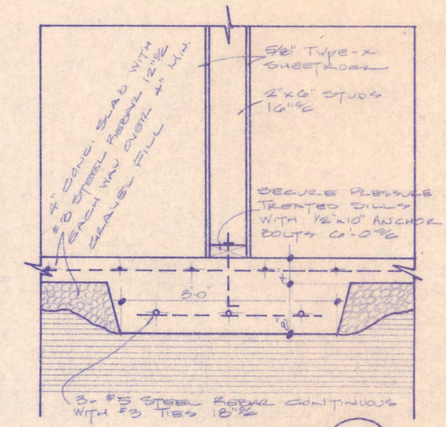
REV. NO.

BULLFROG ENTERPRISES, EUGENE, OR.

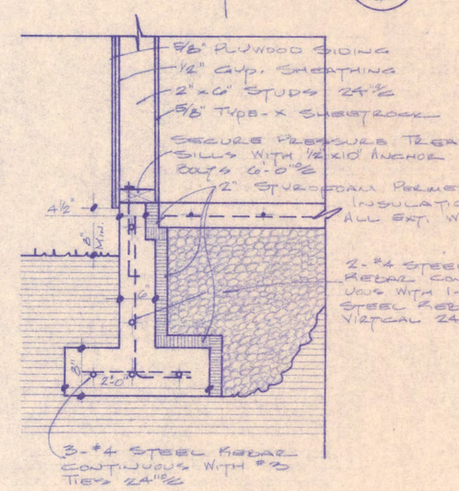








SECTION D/6



SECTION A/6 — SECTION B/6 — SECTION C/6 — SECTION E/6

FOUNDATION & FOOTING DETAILS

SCALE 1" = 1'-0"

6/15

MATERIAL SCHEDULE

ITEM	REQ.	DESCRIPTION	DIMENSION

- ALL CONC. TO BE PLACED ACCORDING TO LATEST A.C.I. SPECS.
- ALL CONC. TO BE 3000 P.S.I. 28 DAY STRENGTH
- ALL STEEL REBAR TO BE GRADE 40
- ALL STEEL REBAR TO BE A MIN. OF 3" FROM SURFACE OF CONC.
- ALL STEEL REBAR TO BE LAPPED AT LEAST 20 BAR DIA.

APPV'D FOR CONSTRUCTION		REV.	DATE	EXPLANATION	BY
DATE					

REGISTERED PROFESSIONAL ENGINEER 4480 OREGON OCT. 30, 1980 ROBERT J. HILL 6-30-82

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B.L.M. DISTRICT OFFICE
VALE, OREGON

DATE DRAWN:	DRAWN BY:	DATE CHECKED:	CHECKED BY:	SCALE

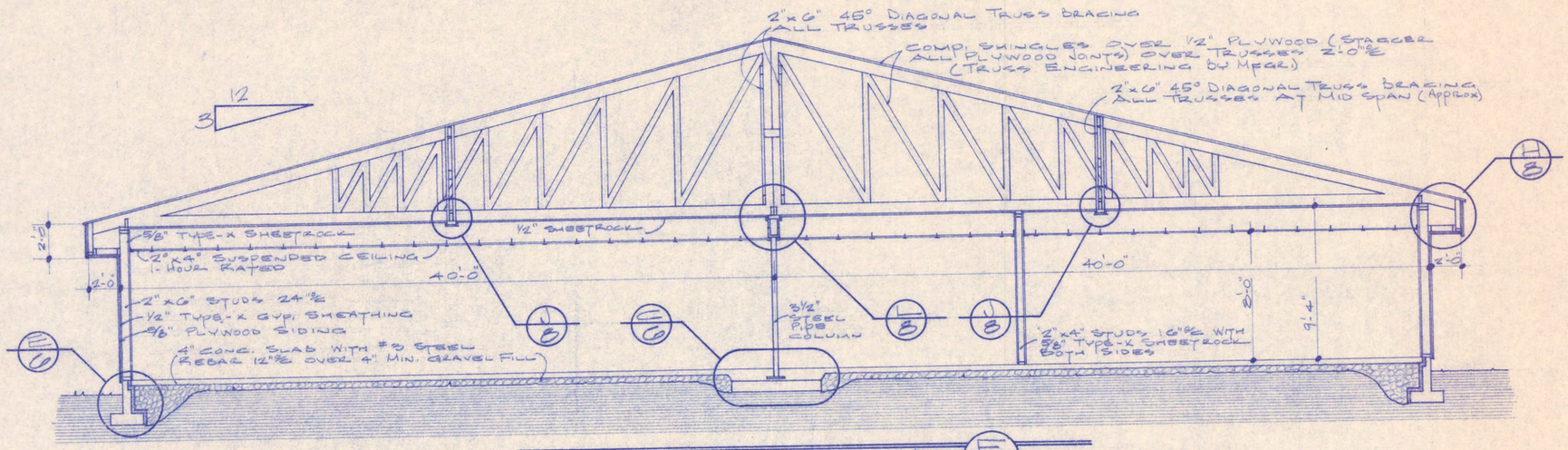
R. J. HILL ENGINEERING CO.
EUGENE, OREGON

DRAWING NO. 8205-2

REV. NO.

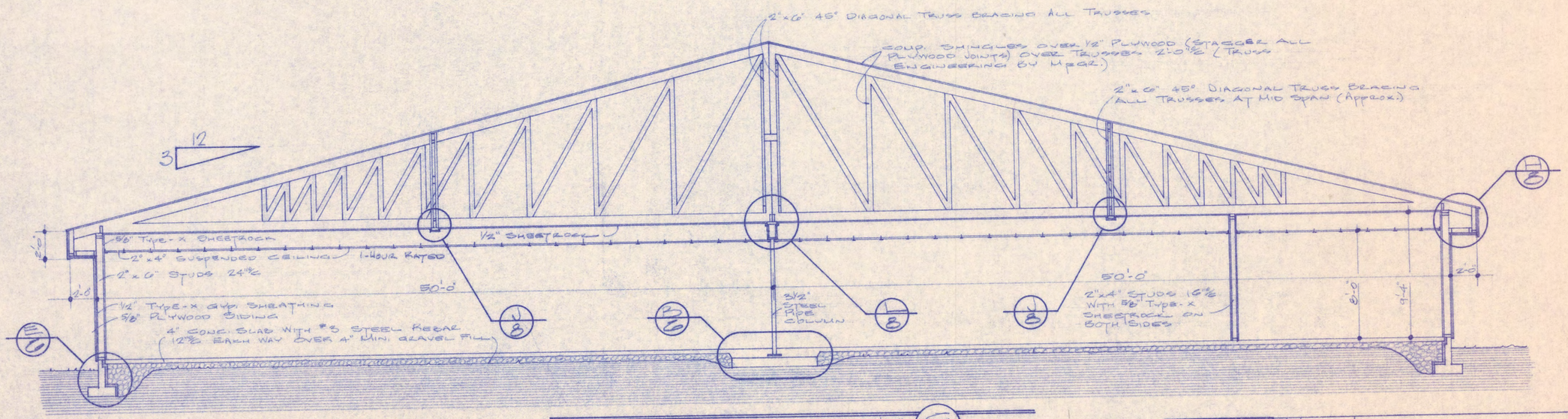
BULLFROG ENTERPRISES, EUGENE, OR.

MATERIAL SCHEDULE			
ITEM	REQ.	DESCRIPTION	DIMENSION



SECTION SCALE 1/4"=1'-0" F/7

ALL TRUSSES TO BE BRACED AS PER MFGR'S. SPECS.



SECTION SCALE 1/4"=1'-0" G/7

7/15

APPV'D FOR CONSTRUCTION		REV.	DATE	EXPLANATION	BY
DATE					

REGISTERED PROFESSIONAL ENGINEER 4480 Robert J. Hill OREGON OCT. 30, 1979 ROBERT J. HILL 6-30-82

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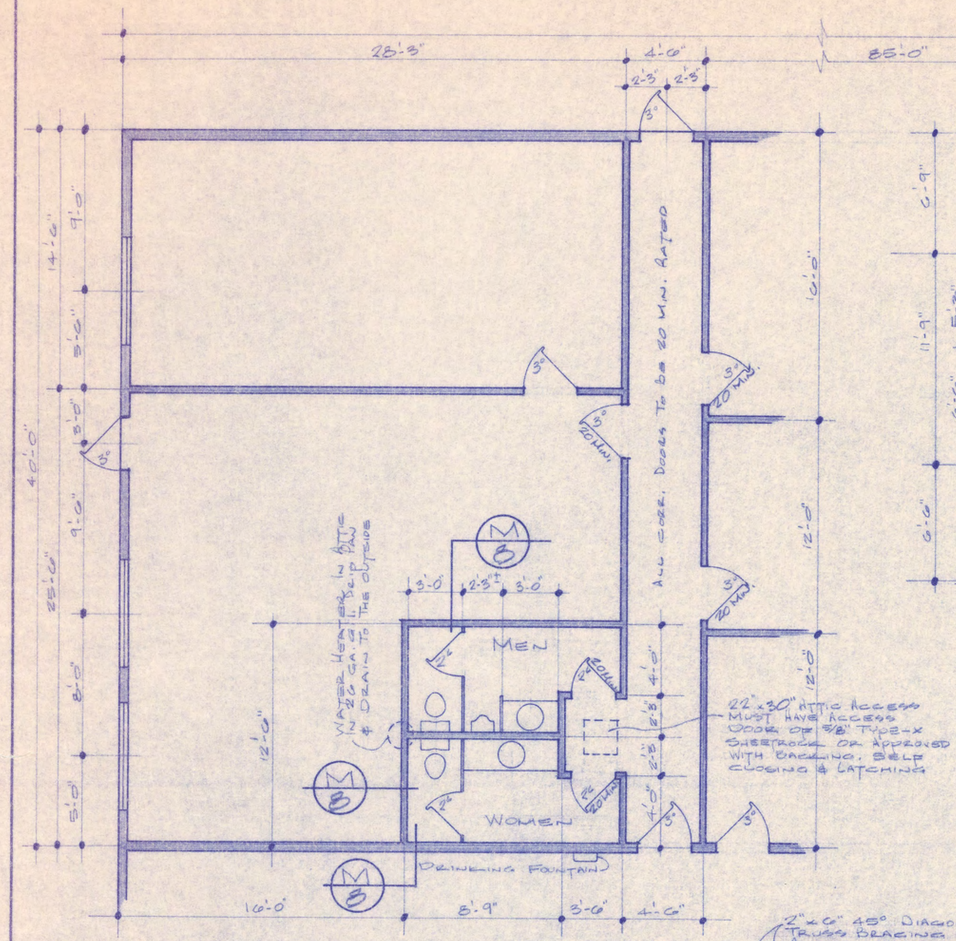
B.L.M. DISTRICT OFFICE
VALE, OREGON

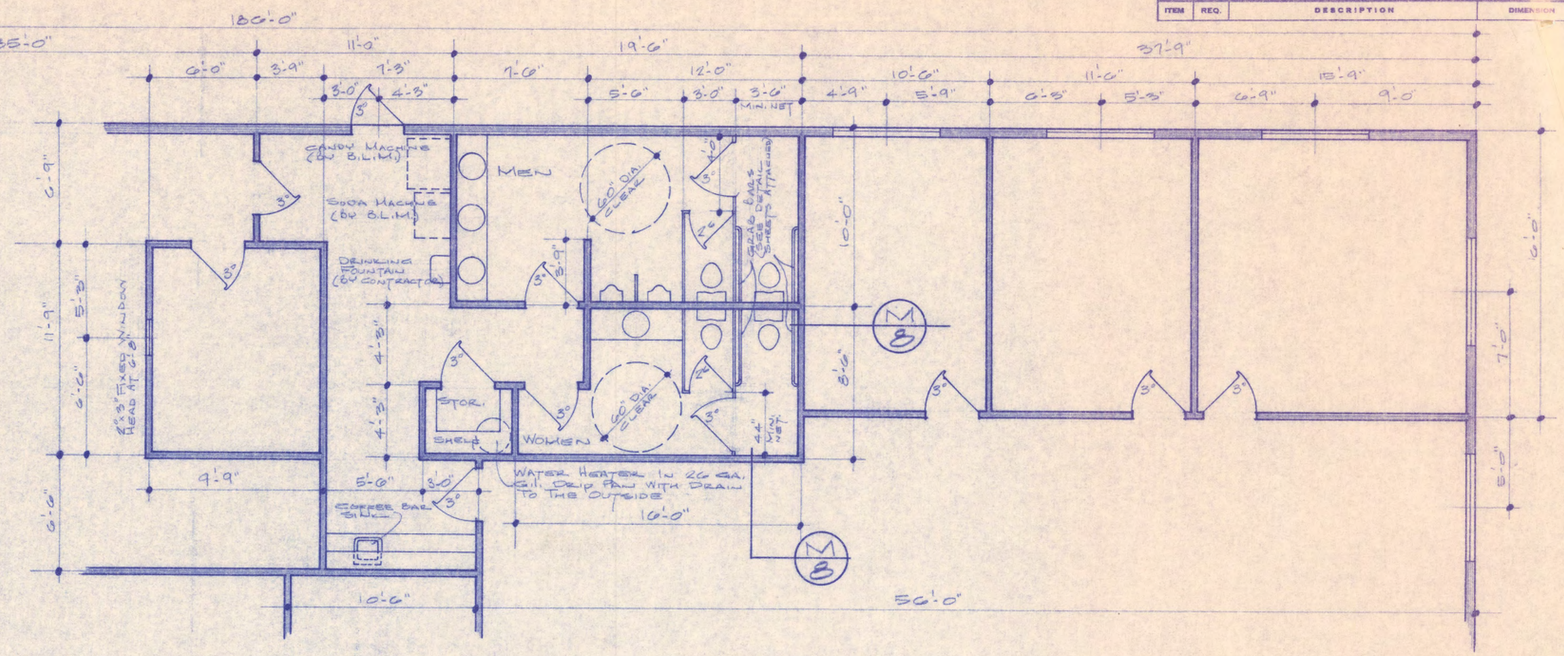
DATE DRAWN:	DRAWN BY:	DATE CHECKED:	CHECKED BY:	SCALE
				DRAWING NO. 8205 12

R. J. HILL ENGINEERING CO.
EUGENE, OREGON

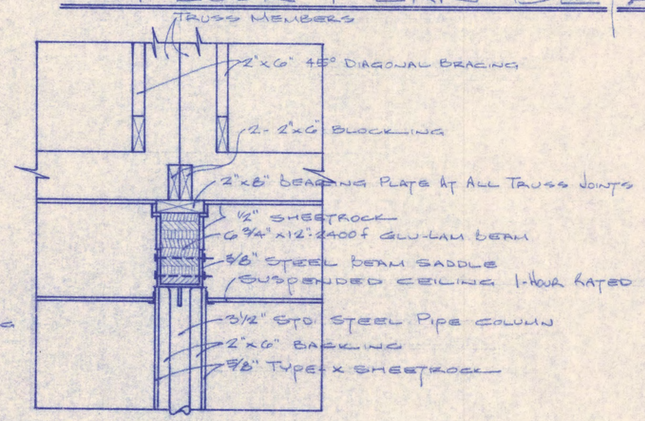
REV. NO.

MATERIAL SCHEDULE			
ITEM	REQ.	DESCRIPTION	DIMENSION

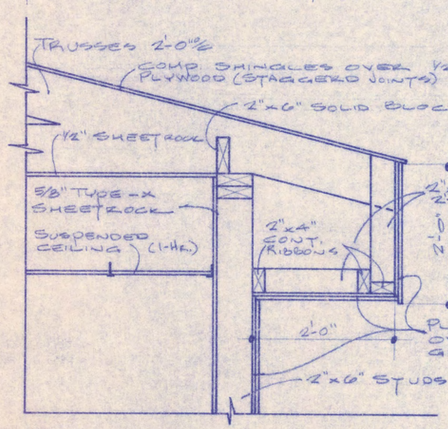




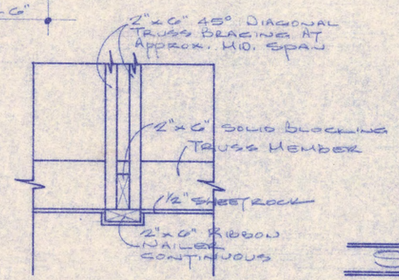
FLOOR PLAN DETAILS SCALE 1/4" = 1'-0"



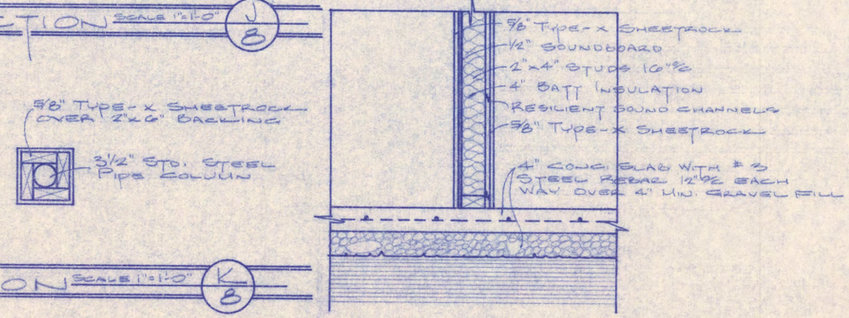
SECTION SCALE 1"=1'-0" L/8



SECTION SCALE 1"=1'-0" H/8



SECTION SCALE 1"=1'-0" J/8



SECTION SCALE 1"=1'-0" M/8

SECTION SCALE 1"=1'-0" K/8

GENERAL NOTES

- FLASH & COUNTERFLASH ALL EXT. OPNGS. & ALL HORZ. WOOD TRIM.
- PROVIDE PRESSURE RELIEF VALVES ON ALL HOT WATER HEATERS IN 26 GA. G.I. DRIP PANS DRAINED TO THE OUTSIDE. EXTEND DRAIN DOWN TO DRIP PAN.
- VENT ALL FANS TO THE OUTSIDE.
- ASSUMED SOIL BEARING 1000 P.S.F.
- ASSUMED CONC. STRENGTH 3000 P.S.I.
- ALL FOOTINGS TO REST ON SOLID UNDISTURBED SOIL, TO BE 24" MIN. BELOW FINISH GRADE.
- LUMBER GRADE - #2 & BETTER
- PLYWOOD GRADE - C.D.X.
- BATH SPECS:
  PROVIDE A SMOOTH, HARD, NON-ABSORBENT FINISH ON FLOORS & UP WALLS 5' MIN. & UP WALLS 48" AT W.C. COMPARTMENTS. SUBMIT MATERIAL SPECS TO BUILDING INSPECTOR FOR APPROVAL BEFORE INSTALLATION (ALL RESTROOMS)
- INSULATION SPECS:
  FLOORS - R-
  WALLS - R-19
  CEILINGS - R-38
- NAIL ALL ROOF PLYWOOD 6" o/c ON PERIMETER & 12" o/c IN FIELD.
- NAIL ALL WALL PLYWOOD 8" o/c ON PERIMETER & 8" o/c IN FIELD.
- MAX. THRESHOLD LIP NOT TO EXCEED 1/2"
- SEE ATTACHED DETAILS FOR HANDICAPPED
- VERIFY ALL CONSTRUCTION, DIMENSIONS, & CODES BEFORE STARTING.

8/15

APPV'D FOR CONSTRUCTION					
DATE		REV.	DATE	EXPLANATION	BY

REGISTERED PROFESSIONAL ENGINEER 4480 OREGON OCT. 30, 1979 ROBERT J. HILL 6-30-82

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B.L.M. DISTRICT OFFICE
VALE, OREGON

DATE DRAWN:	DRAWN BY:	DATE CHECKED:	CHECKED BY:	SCALE

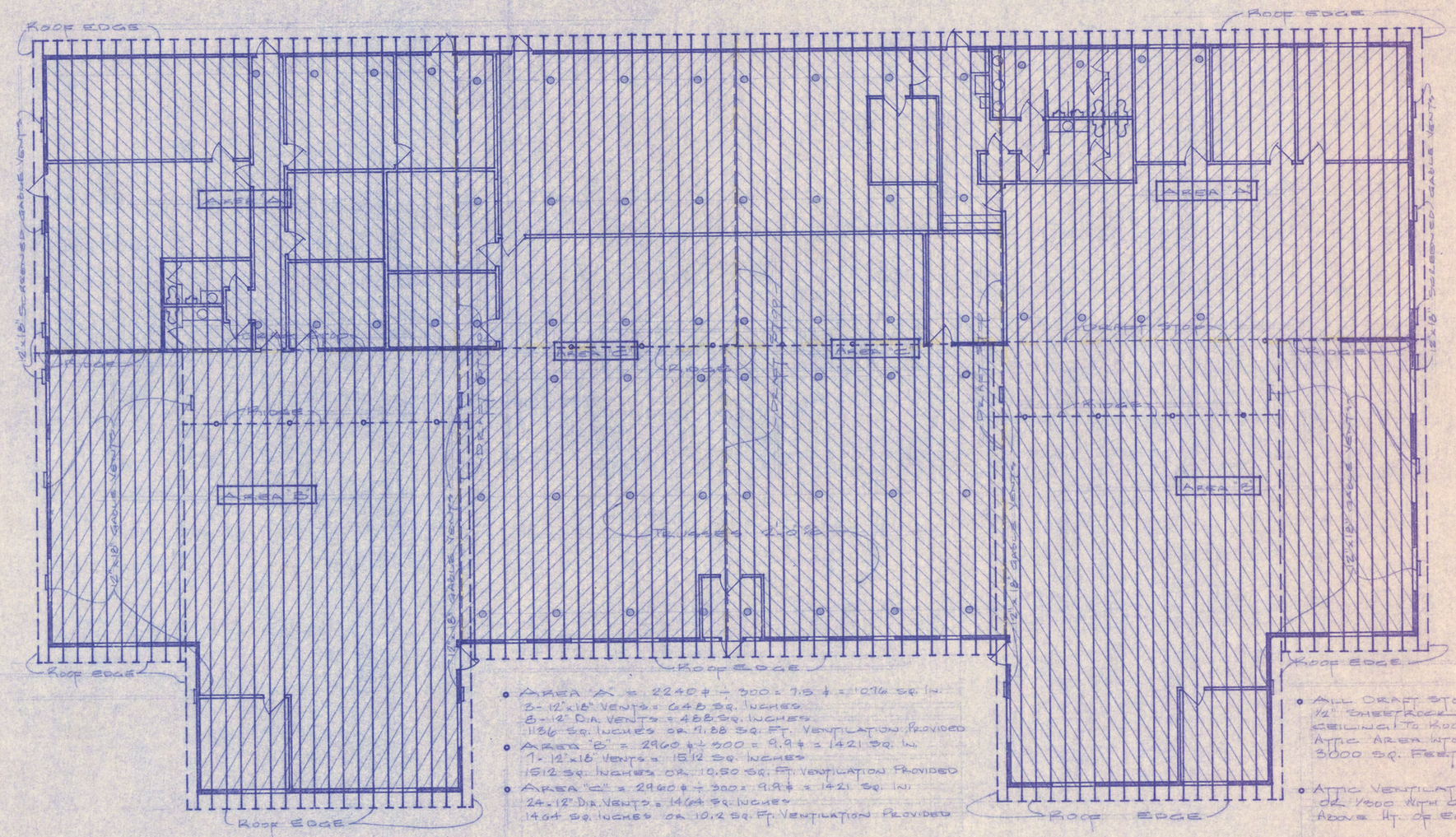
R. J. HILL ENGINEERING CO.
EUGENE, OREGON

DRAWING NO. 8205 12
REV. NO.

BULLFROG ENTERPRISES, EUGENE, OR.

MATERIAL SCHEDULE			
ITEM	REQ.	DESCRIPTION	DIMENSION

TOTAL AREA	16,320 #
6" PERIMETER WALLS	306 #
VESTIBULE	64 #
HANDICAP RESTROOMS	360 #
MECHANICAL ROOM	224 #
SMALL RESTROOMS	169 #
NET RENTABLE AREA	15,197 #



- AREA "A" = 2240 # ÷ 300 = 7.5 # = 1076 SQ. IN.
  3-12"x18" VENTS = 648 SQ. INCHES
  8-12" DIA. VENTS = 488 SQ. INCHES
  1136 SQ. INCHES OR 7.88 SQ. FT. VENTILATION PROVIDED
- AREA "B" = 2960 # ÷ 300 = 9.9 # = 1421 SQ. IN.
  1-12"x18" VENTS = 1512 SQ. INCHES
  1512 SQ. INCHES OR 10.50 SQ. FT. VENTILATION PROVIDED
- AREA "C" = 2960 # ÷ 300 = 9.9 # = 1421 SQ. IN.
  24-12" DIA. VENTS = 1464 SQ. INCHES
  1464 SQ. INCHES OR 10.2 SQ. FT. VENTILATION PROVIDED

- ALL DRAFT STOPS WILL BE 3/8" PLYWOOD OR 1/2" SHEETROCK PARTITIONS EXTENDING FROM CEILING TO ROOF SHEATHING & WILL DIVIDE THE ATTIC AREA INTO NOTED AREAS NOT TO EXCEED 3000 SQ. FEET.
- ATTIC VENTILATION WILL BE 1/150 OF ATTIC AREA OR 1/300 WITH GABLE VENTS SITUATED 3' ABOVE HT. OF EAVE VENTS.
- ⊙ SYMBOL FOR 12" DIA. SCREENED ROOF VENT (61 SQ. INCHES VENTILATION)

9/15

ROOF TRUSS PLAN & VENTILATION DETAILS

SCALE 1/8"=1'-0"

APPV'D FOR CONSTRUCTION				
DATE		REV.	DATE	EXPLANATION	BY

REGISTERED PROFESSIONAL ENGINEER 4490 Robert J. Hill OREGON OCT. 30, 1979 ROBERT J. HILL 6-30-82

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B.L.M. DISTRICT OFFICE
VALE, OREGON

DATE DRAWN:	DRAWN BY:	DATE CHECKED:	CHECKED BY:	SCALE

R. J. HILL ENGINEERING CO.
EUGENE, OREGON

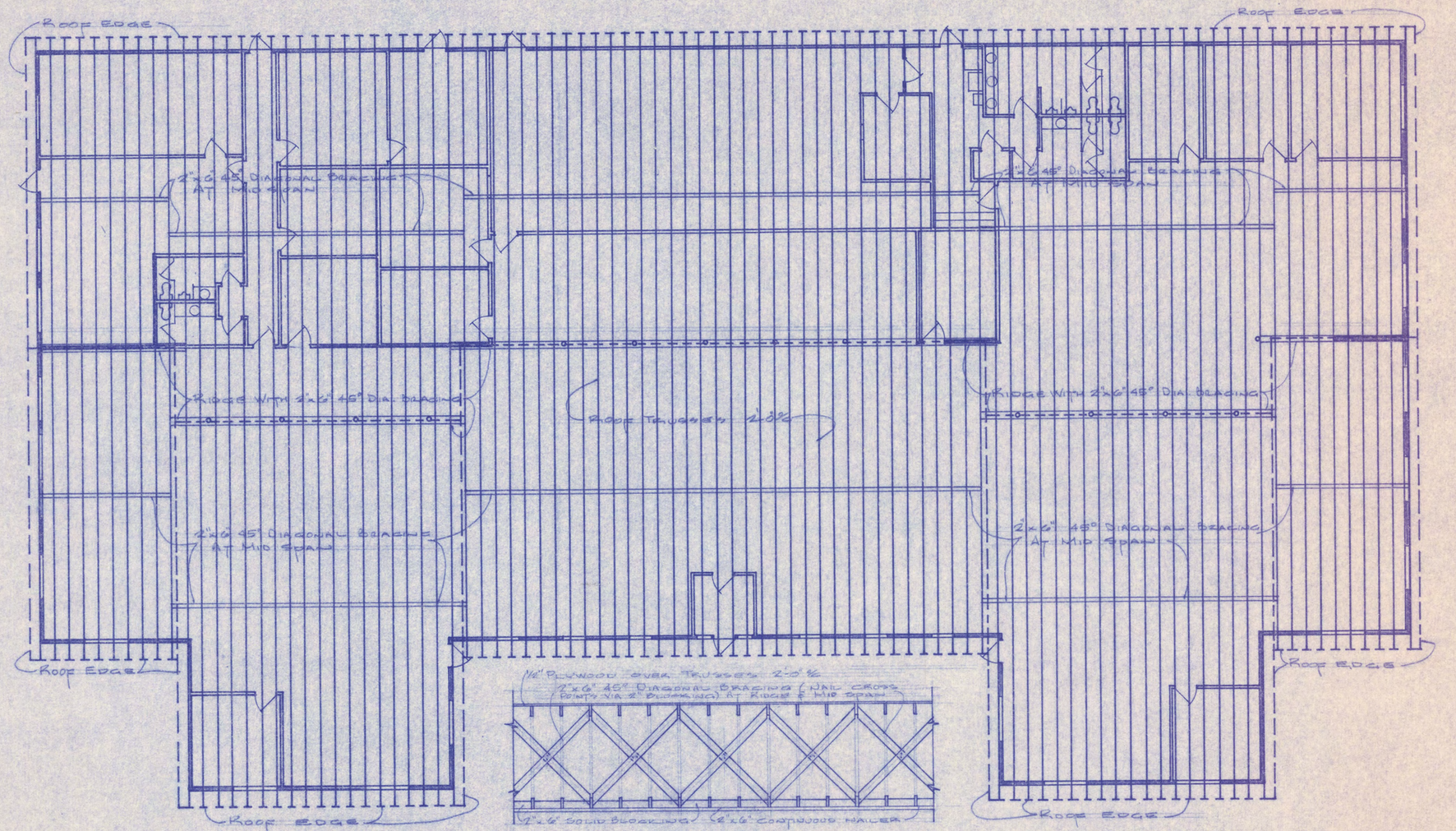
DRAWING NO. 8205 10

REV. NO.

BULLFROG ENTERPRISES, EUGENE, OR.

MATERIAL SCHEDULE			
ITEM	REQ.	DESCRIPTION	DIMENSION

TOTAL AREA	16,320 #
6" PERIMETER WALLS	306 #
VESTIBULE	64 #
HANDICAP RESTROOMS	360 #
MECHANICAL ROOM	224 #
SMALL RESTROOMS	169 #
NET RENTABLE AREA	15,197 #



BRACING DETAIL SCALE 1/4"=1'-0"

ROOF TRUSS BRACING PLAN SCALE 1/8"=1'-0"

10/15

APPV'D FOR CONSTRUCTION				
DATE	REV.	DATE	EXPLANATION	BY

REGISTERED PROFESSIONAL ENGINEER 4480 Robert J. Hill OREGON OCT. 20, 1978 ROBERT J. HILL 6-30-82

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B.L.M. DISTRICT OFFICE
VALE, OREGON

DATE DRAWN:	DRAWN BY:	DATE CHECKED:	CHECKED BY:	SCALE

R. J. HILL ENGINEERING CO.
EUGENE, OREGON

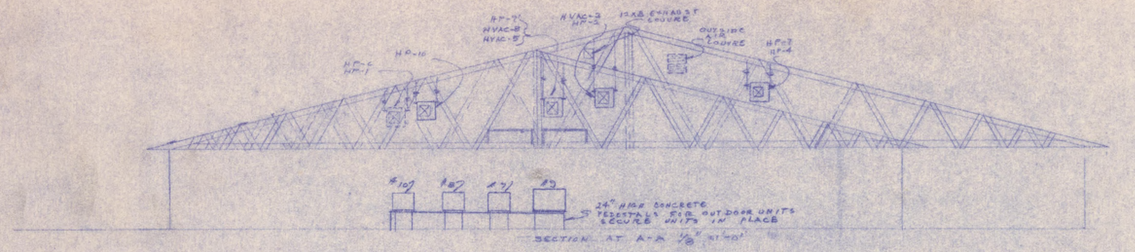
DRAWING NO. 8205 10

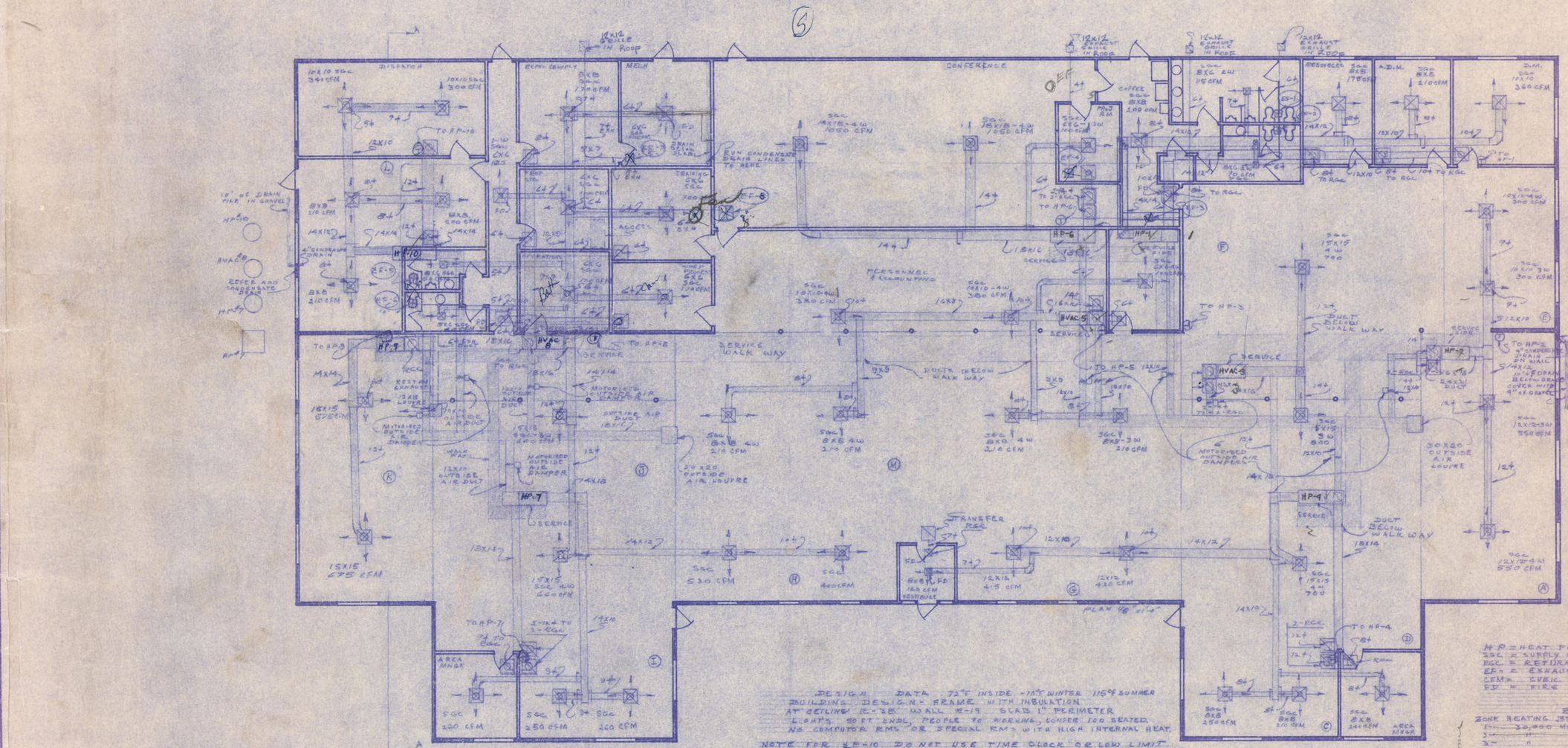
REV. NO.

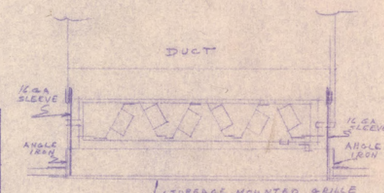
BULLFROG ENTERPRISES, EUGENE, OR.

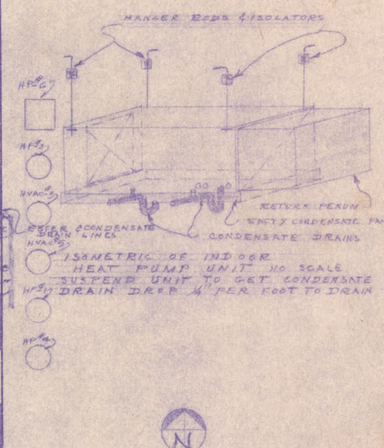
MATERIAL SCHEDULE			
ITEM	REQ.	DESCRIPTION	DIMENSION

TOTAL AREA	16,320 #
6" PERIMETER WALLS	306 #
VESTIBULE	64 #
HANDICAP RESTROOMS	360 #
MECHANICAL ROOM	224 #
SMALL RESTROOMS	169 #
NET RENTABLE AREA	15,197 #









DESIGN DATA 72°F INSIDE -10°F WINTER 115°F SUMMER
BUILDING DESIGN - FRAME WITH INSULATION
AT CEILING R-38 WALL R-19 SLAB 1' PERIMETER
LIGHTS 80 FT. END, PEOPLE 70 WORKING, LOWER 100 SEATED.
NO COMPUTER RMS OR SPECIAL RM'S WITH HIGH INTERNAL HEAT.

NOTE FOR HP-10 DO NOT USE TIME CLOCK OR LOW LIMIT
USE MOTORIZED OUTSIDE AIR ONLY 24 HR. OCCUPANCY

LEGEND
HP = HEAT PUMP
SGC = SUPPLY GRILLE CEILING
RGC = RETURN GRILLE CEILING
EF = EXHAUST FAN
CFM = CUBIC FEET PER MINUTE
FD = FIRE DAMPER

ZONE	REQUIREMENTS HEATING BTU/H	COOLING-TOTAL	COOLING SENSIBLE
1-	30,000 MINIMUM	27000/ BTU/H	22000/ BTU/H
2-	" "	37000/ "	31500/ "
3-	" "	51000/ "	41000/ "
4-	" "	37000/ "	31500/ "
5-	" "	37000/ "	31500/ "
6-	" "	51000/ "	41000/ "
7-	" "	37000/ "	31500/ "
8-	" "	51000/ "	41000/ "
9-	" "	51000/ "	41000/ "
10-			

AIR BALANCE ALL ZONES BY PROFESSIONAL BALANCER

CARRIER HEAT PUMP EQUIPMENT SCHEDULE

	UNIT	WT	MODEL-NO	HEATER MFGR	CARRIER	CFM	KW	FLA	VOLTAGE	INDOOR FAN HP	FLA	COMPRESSOR FLA	OUTDOOR-FAN HP	FLA	EER	COP	CFM O.A.
HEAT PUMP	OUTDOOR-#1	120 LBS	38GA 033												7.0	2.5	400
	INDOOR	180 LBS	40GD 048			1700	7.5	30.0	230/1/60	1/2	4.8	26.1	1/4	2.4			
HEAT PUMP	OUTDOOR-#2	210 LBS	38GA 044									27.0	1/4	2.4			500
	INDOOR-#2	180 LBS	40GD 060			2500	7.5	30.0		3/4	3.6						
HVAC	OUTDOOR-#3	210 LBS	38GA 060									20.8	1/4	2.1			650
	INDOOR-#3	180 LBS	40GD 048			1700	7.5	30.0		1/2	4.8						
HEAT PUMP	OUTDOOR-#4	120 LBS	38GA 033									17.8	1/4	2.4			500
	INDOOR-#4	180 LBS	40GD 048			1700	7.5	30.0		1/2	4.8						
HVAC	OUTDOOR-#5	210 LBS	38GA 060									16.4	1/4	2.0			650
	INDOOR-#5	180 LBS	40GD 060			2500	7.5	30.0		3/4	3.6						
HEAT PUMP	OUTDOOR-#6	380 LBS	38GQ 006									35.8	1/2	2.1			800
	INDOOR-#6	180 LBS	40GD 060			1700	7.5	30.0		1/2	3.8						
HEAT PUMP	OUTDOOR-#7	120 LBS	38GA 044									27.0	1/4	2.4			650
	INDOOR-#7	180 LBS	40GD 060			2500	7.5	30.0		3/4	3.6						
HVAC	OUTDOOR-#8	380 LBS	38GQ 060									20.8	1/3	2.1			650
	INDOOR-#8	180 LBS	40GD 060			2500	7.5	30.0		3/4	3.6						
HEAT PUMP	OUTDOOR-#9	380 LBS	38GQ 006									35.3	1/3	2.1			500
	INDOOR-#9	180 LBS	40GD 036			1250	7.5	30.0		1/3	3.6						
HEAT PUMP	OUTDOOR-#10	215 LBS	38GA 033									20.1	1/4	2.4			

EXHAUST FANS: EF-1 REST RMS 150 CFM EACH SWITCH WITH LIGHTS DUCT TO EXTERIOR
EF-3 COFFEE BAR OPTIONAL SWITCH WITH TIMER MANUAL DUCT TO EXTERIOR 220 CFM
EF-4 PROJECTOR RM SWITCH WITH LIGHTS DUCT TO EXTERIOR 120 CFM
EF-5 EF-6 REST RM EXHAUST 100 CFM EACH SWITCH WITH LIGHTS DUCT TO EXTERIOR
EF-7 - MECHANICAL ROOM 220 CFM SWITCH WITH STAT TO OPEN AUTOMATIC DUCT TO EXTERIOR
EF-8 - CONFERENCE RM. 350 CFM MANUAL SWITCH DUCT TO EXTERIOR
SOUND LEVEL FOR EXHAUST FANS NOT TO EXCEED 3.5 SONES.

NOTES
#1 - THERMOSTATS TO ALL HP UNITS TO BE AUTOMATIC CHANGE OVER WITH TIME CLOCKS & NIGHT LOW LIMIT 65°F LOW SETTING ALL TIME CLOCKS TO HAVE MANUAL OVERRIDE SWITCH - LOCATE BESIDE NIGHT LOW LIMIT STAT WITH 4 HR TIMER TO CLOSE TO MINIMUM 5% WITH NIGHT LOW LIMIT & 40°F WINTER AND 70°F SUMMER.
#2 - ALL OUTSIDE AIR INTAKE MOTORIZED OUTSIDE DAMPERS
#3 - ALL RECTANGULAR DUCT IS TO BE METAL LINED WITH 1/2" INSULATION OR DUCT BOARD WITH EQUIVALENT RATING. ROUND DUCT IS RIGID ROUND OR FLEX. ALL SUPPLY & RETURN DUCTS, SUPPLY GRILLE DOORS, RETURN GRILLE DOORS TO BE SOUND ATTENUATED, USE VOLUME DAMPERS ON ALL ROUND DUCT TAKE OFFS.
#4 - FIRE DAMPERS TO BE U.L. LABELED.
#5 - ALL OUTSIDE AIR DUCTS TO BE INSULATED WITH VAPOR BARRIER
#6 - SUPPLY GRILLES ARE KROEGER PERFORATED, EXCEPT AT REST RMS & OFFICE CEILINGS THAT ARE SHEET ROCK & WHERE FIRE DAMPERS ARE LOCATED USE CURVED BLADE SURFACE MOUNTED.
#7 - ALL DUCT DIMENSIONS SHOWN ARE INSIDE MINIMUM FREE AREA
#8 - COMPLETE INSTALLATION TO BE AS PER ALL STATE & LOCAL CODES.
#9 - ALL INDOOR HP UNITS TO HAVE SAFTY CONDENSATE PANS WITH CONDENSATE DRAINS FROM UNIT & SAFTY PAN TO BE RUN TO DRAIN WITH 1/4" DROP PER FOOT RUN.
#10 - RUN DUCTS UNDER SERVICE WALK WAY IN ATTIC.
#11 - ALL DUCTS, PIPE, CONDUITS ETC TO BE RUN TO MAINTAIN CLEARANCE FOR SERVICE OF ALL UNITS, FILTERS, ETC.
#12 - EXHAUST SYSTEMS TO BE BY MECHANICAL CONTRACTOR

APPV'D FOR CONSTRUCTION	Δ			
DATE	REV.	DATE	EXPLANATION	BY
			Ralph Greenhoot 473-4163	

REGISTERED PROFESSIONAL ENGINEER 4480 Robert J. Hill OREGON OCT. 20, 1978 ROBERT J. HILL
6-30-82

The Professional Engineer's Seal appearing on this drawing applies only to the work as shown on this drawing for the original title block designation. Any alteration or reuse of this drawing without the written consent of the engineer is prohibited.

B.L.M. DISTRICT OFFICE
VALE, OREGON

DATE DRAWN:	DRAWN BY: Jan	DATE CHECKED:	CHECKED BY:	SCALE
				DRAWING NO. 8205
				REV. NO.

R. J. HILL ENGINEERING CO.
EUGENE, OREGON

11/15

BULLFROG ENTERPRISES, EUGENE, OR.

LIGHTING FIXTURE SCHEDULE

CODE	MANUFACTURE	CATALOG NO.	LAMPS	MOUNTING	FINISH	REMARKS
A	LITHONIA	2GP-240-A12-ES	2- F40LW/RS/SS	RECESSED	WHITE	2'X4' FLOURESCENT TROFFER WITH LOW ENERGY BALLAST AND LAMPS. PROVIDE 12' FLEX PIGTAIL.
A1	LITHONIA	2GP-240-A12-EL-ES	2-F40LW/RS/SS	RECESSED	WHITE	SAME AS FOR TYPE "A", EXCEPT WITH BATTERY PACK.
B	LITHONIA	8TUN-240-WG9	2-F40LW/RS/SS	SURFACE	WHITE	OPEN STRIP FLOURESCENT FIXTURE WITH WIRE GUARD.
C	MARCO	NKF21	1-150W,IF	SURFACE WALL	BLACK TOP SHIELD	INCANDESCENT BRACKET LIGHT, VANDAL PROOF.
EX	LITHONIA	XSIG-EL	FURNISHED WITH FIXTURE	SURFACE	BLACK	EXIT SIGN WITH STANDBY BATTERY PACK.

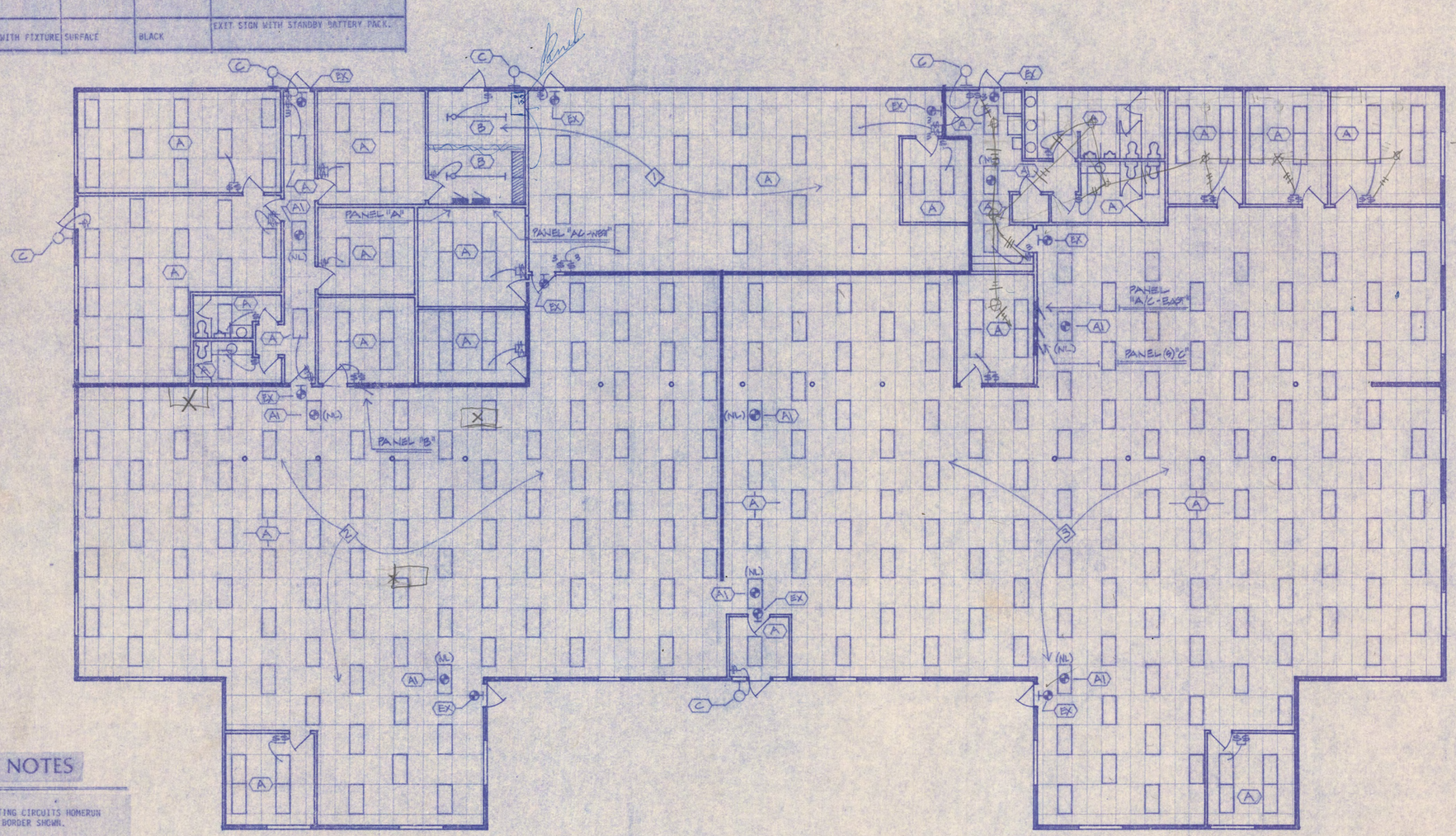
ELECTRICAL SYMBOLS

- FLOURESCENT FIXTURE, CODE LETTER SHOWN.
- FLOURESCENT STRIPLIGHT, CODE LETTER SHOWN.
- LIGHT OUTLET, BRACKET, CODE LETTER SHOWN.
- (NL) LIGHT OUTLET, CONNECTED ON NITE LIGHT CIRCUIT.
- LIGHT OUTLET, EXIT SIGN.
- (A) LIGHT FIXTURE CODE DESIGNATED. SEE LIGHT FIXTURE SCHEDULE.
- SWITCH, SINGLE POLE.
- SWITCH, THREE WAY.
- DUPLEX RECEPTACLE, GROUNDING TYPE.
- (GFI) DUPLEX RECEPTACLE, GROUNDING TYPE, WITH GROUND FAULT TRIP.
- (AC) DUPLEX RECEPTACLE, ABOVE COUNTER TOP.
- DUPLEX RECEPTACLE ON DEDICATED BRANCH CIRCUIT.
- TELEPHONE OUTLET, WALL MTD. UP +12" UNLESS OTHERWISE NOTED.
- TELEPOWER POLE, SEE SPECS.
- BRANCH PANEL.
- SPECIAL 250 VOLT POWER OUTLET (XEROX, HOT WATER HEATER, ETC.).
- (3) PLAN NOTE.

MATERIAL SCHEDULE

ITEM	REQ.	DESCRIPTION	DIMENSION

TOTAL AREA	16,320 #
6" PERIMETER WALLS	306 #
VESTIBULE	64 #
HANDICAP RESTROOMS	360 #
MECHANICAL ROOM	224 #
SMALL RESTROOMS	169 #
NET RENTABLE AREA	15,197 #



PLAN NOTES

1. AREA "A". ALL LIGHTING CIRCUITS HOMERUN TO PANEL "A" WITHIN BORDER SHOWN.
2. AREA "B". ALL LIGHTING CIRCUITS HOMERUN TO PANEL "B" WITHIN BORDER SHOWN.
3. AREA "C". HOMERUN TO PANEL "C1".

FLOOR PLAN --- LIGHTING

1/8"=1'-0"

12/15

APPV'D FOR CONSTRUCTION		REV.	DATE	EXPLANATION	BY
DATE					

REGISTERED PROFESSIONAL ENGINEER 1480 Robert J. Hill OREGON OCT. 30, 1979 ROBERT J. HILL 6-30-82

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B.L.M. DISTRICT OFFICE
VALE, OREGON

DATE DRAWN:	DRAWN BY:	DATE CHECKED:	CHECKED BY:	SCALE

R. J. HILL ENGINEERING CO.
EUGENE, OREGON

DRAWING NO. 8205-10
REV. NO.

BULLFROG ENTERPRISES, EUGENE, OR.

LIGHTING FIXTURE SCHEDULE

CODE	MANUFACTURE	CATALOG NO.	LAMPS	MOUNTING	FINISH	REMARKS
A	LITHONIA	2GR-240-A12-ES	2- F40LW/RS/SS	RECESSED	WHITE	2'x4' FLOURESCENT TROFFER WITH LOW ENERGY BALLAST AND LAMPS. PROVIDE 72" FLEX PIGTAIL.
A1	LITHONIA	2GP-240-A12-EL-ES	2-F40LW/RS/SS	RECESSED	WHITE	SAME AS FOR TYPE "A", EXCEPT WITH BATTERY PACK.
B	LITHONIA	8TUN-240-WG9	2-F40LW/RS/SS	SURFACE	WHITE	OPEN STRIP FLOURESCENT FIXTURE WITH WIRE GUARD.
C	MARCO	NKP21	1-150W,IF	SURFACE WALL	BLACK TOP SHIELD	INCANDESCENT BRACKET LIGHT, VANDAL PROOF.
EX	LITHONIA	XSIG-EL	FURNISHED WITH FIXTURE	SURFACE	BLACK	EXIT SIGN WITH STANDBY BATTERY PACK.

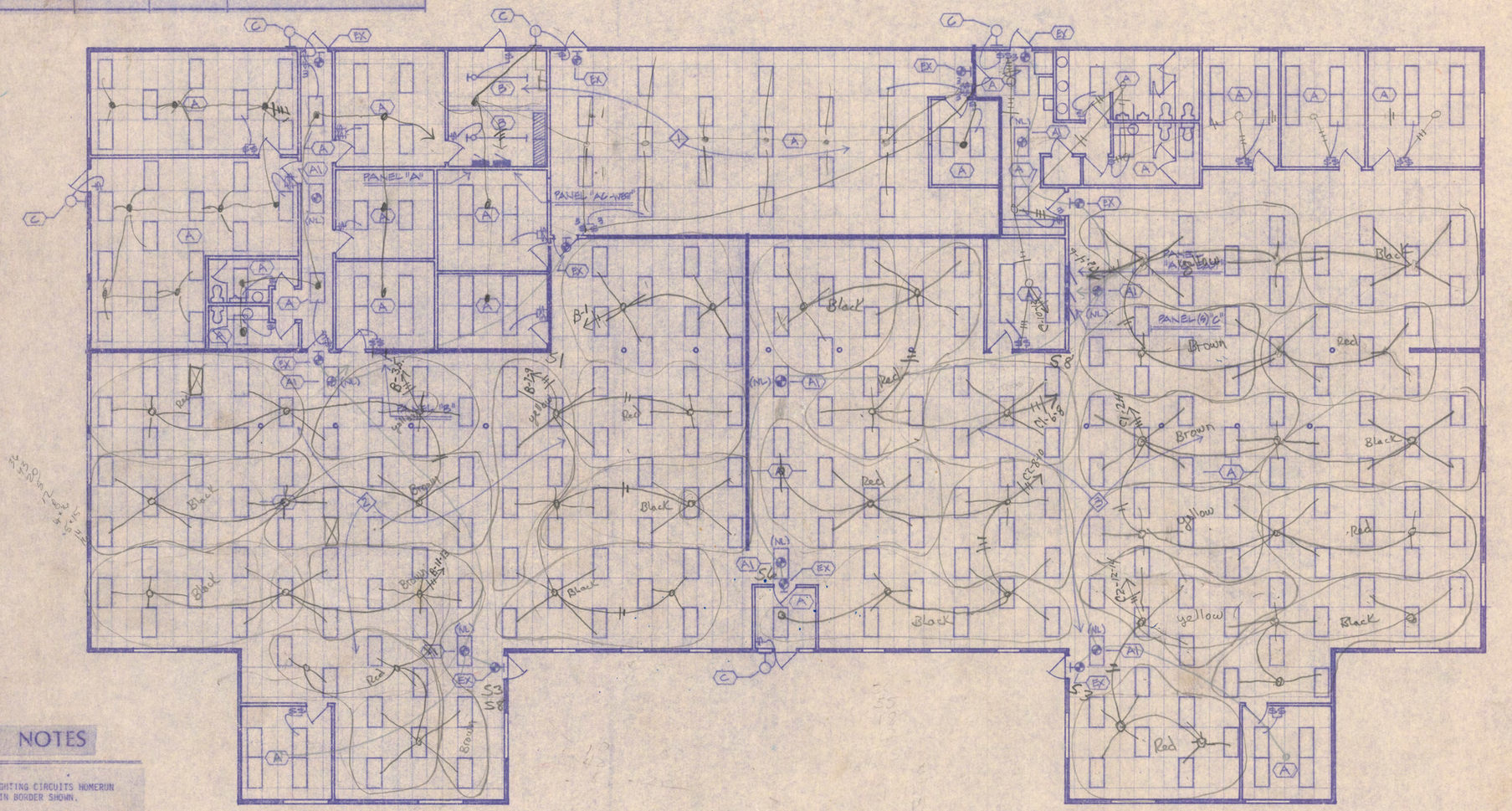
ELECTRICAL SYMBOLS

- FLOURESCENT FIXTURE, CODE LETTER SHOWN.
- FLOURESCENT STRIPLIGHT, CODE LETTER SHOWN.
- LIGHT OUTLET, BRACKET, CODE LETTER SHOWN.
- (NL) LIGHT OUTLET, CONNECTED ON NITE LIGHT CIRCUIT.
- LIGHT OUTLET, EXIT SIGN.
- (A) LIGHT FIXTURE CODE DESIGNATED. SEE LIGHT FIXTURE SCHEDULE.
- SWITCH, SINGLE POLE.
- $3 SWITCH, THREE WAY.
- DUPLEX RECEPTACLE, GROUNDING TYPE.
- (GFI) DUPLEX RECEPTACLE, GROUNDING TYPE, WITH GROUND FAULT TRIP.
- DUPLEX RECEPTACLE, ABOVE COUNTER TOP.
- DUPLEX RECEPTACLE ON DEDICATED BRANCH CIRCUIT.
- TELEPHONE OUTLET, WALL MTD. UP +12" UNLESS OTHERWISE NOTED.
- TELEPOWER POLE; SEE SPECS.
- BRANCH PANEL.
- SPECIAL 250 VOLT POWER OUTLET (XEROX, HOT WATER HEATER, ETC.).
- (3) PLAN NOTE.

MATERIAL SCHEDULE

ITEM	REQ.	DESCRIPTION	DIMENSION

TOTAL AREA	16,320 #
6" PERIMETER WALLS	306 #
VESTIBULE	64 #
HANDICAP RESTROOMS	360 #
MECHANICAL ROOM	224 #
SMALL RESTROOMS	169 #
NET RENTABLE AREA	15,197 #



PLAN NOTES

1. AREA "A". ALL LIGHTING CIRCUITS HOMERUN TO PANEL "A" WITHIN BORDER SHOWN.
2. AREA "B". ALL LIGHTING CIRCUITS HOMERUN TO PANEL "B" WITHIN BORDER SHOWN.
3. AREA "C". HOMERUN TO PANEL "C1".

FLOOR PLAN --- LIGHTING

1/8"=1'-0"

NORTH

12/15

APP'D FOR CONSTRUCTION					
DATE		REV.	DATE	EXPLANATION	BY

REGISTERED PROFESSIONAL ENGINEER #480 Robert J. Hill OREGON OCT. 30, 1979 ROBERT J. HILL 6-30-82

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B.L.M. DISTRICT OFFICE
VALE, OREGON

DATE DRAWN:	DRAWN BY: Jaus	DATE CHECKED:	CHECKED BY:	SCALE

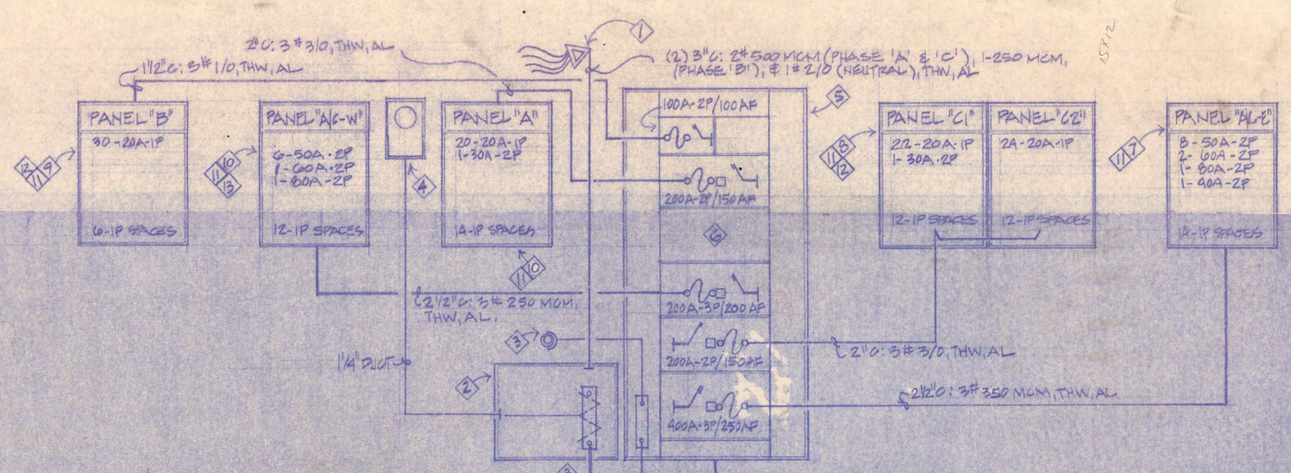
R. J. HILL ENGINEERING CO.
EUGENE, OREGON

DRAWING NO. 8205-10
REV. NO.

GUILFORD ENTERPRISES, EUGENE, OR.

RISER DIAGRAM NOTES

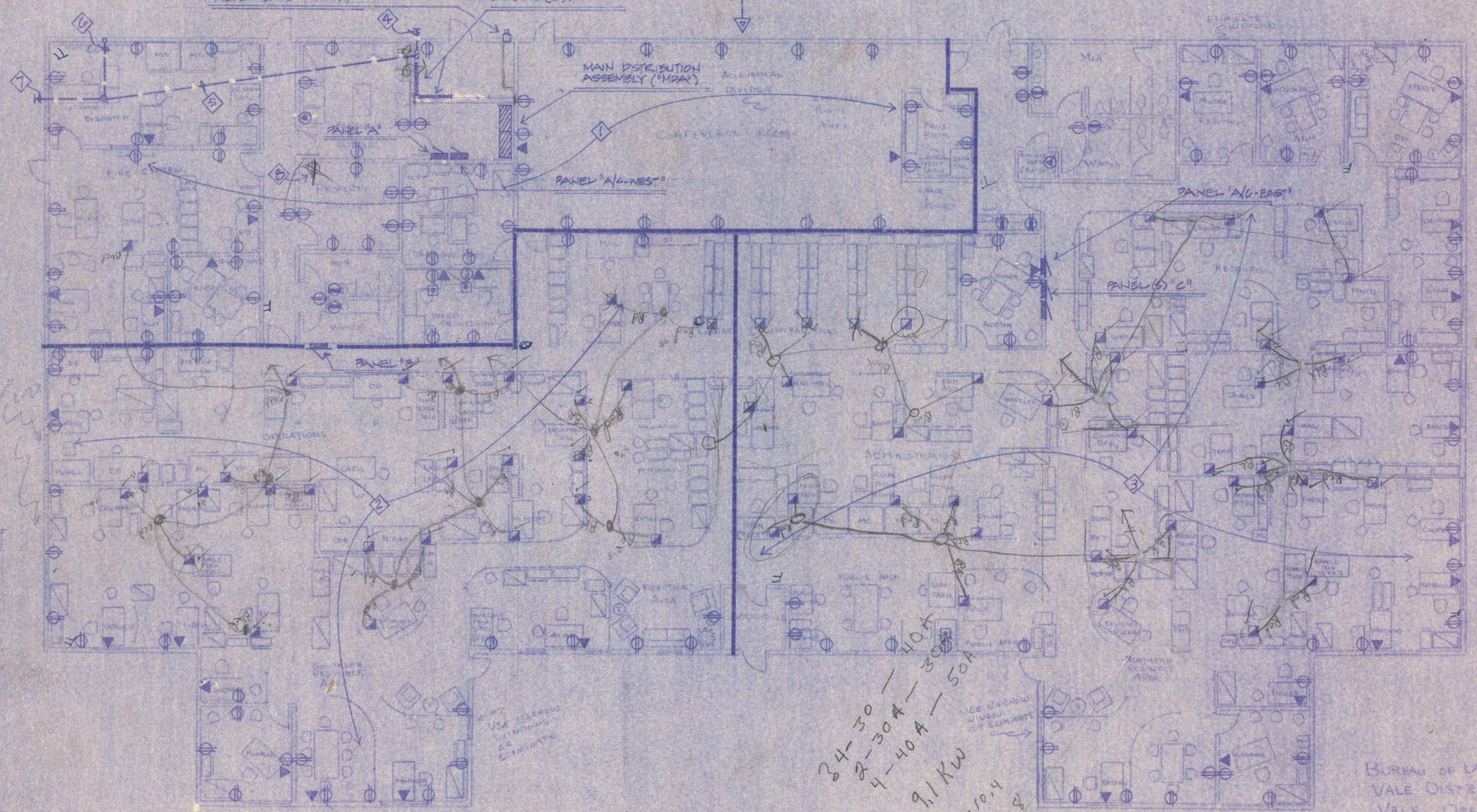
1. PROVIDE SERVCIE WEATHER HEADS FOR OVERHEAD DROP. SIZE DUCTS AS SHOWN.
2. PROVIDE CURRENT TRANSFORMER ENCLOSURE, SUITABLY SIZED, INSTALL C.T.'S WITHIN.
3. PROVIDE CODE GROUND. CONNECT TO BUILDING WATER SERVICE.
4. PROVIDE METER BASE, SEMI-RECESSED.
5. 100 AMP, 120/240 VOLT, 3P, 4W PASSD SWITCH ASSEMBLY, SQ."D" TYPE "QMB" SUITABLE FOR SERVICE ENTRANCE. BOLT TO WALL.
6. 200 AMP - 2 POLE SPACE FOR FUTURE.
7. 400 AMP, 3P, 3W PANELBOARD, FLUSH MOUNTED.
8. 225 AMP, 1P, 3W PANELBOARD, RECESSED INTO WALL.
9. 100 AMP, 1P, 3W PANELBOARD, RECESSED INTO WALL.
10. SAME AS FOR NOTE 8, BUT SURFACE MOUNTED.
11. ALL PANELBOARDS & CIRCUIT BREAKERS RATED 10,000 A.I.C. MINIMUM. USE BOLT TO BUS PANELS.
12. CIRCUIT BREAKERS MUST BE RATED FOR "SWITCHING DUTY".
13. 225 AMP, 3P, 3W PANELBOARD, SURFACE.



RISER DIAGRAM --- 120/240 V, 3 PHASE, 4 WIRE, WILD LEG, DELTA

CONNECTED LOAD SCHEDULE

LOAD DESCRIPTION	PHASE	LOAD (KILOWATTS)
LIGHTING	1	24.0
RECEPTACLES	1	42.0
POWER (MISC.)	1	7.0
HOT WATER HEATING	1	4.5
HVAC & HEATING	1	76.0
HVAC MOTORS	1	75.0
		227.5 (228KW)



PLAN NOTES

1. AREA "A". ALL POWER CIRCUITS HOMERUN TO PANEL "A" WITHIN BORDER SHOWN.
2. AREA "B". HOMERUN POWER CIRCUITS TO PANEL "B". ALL HEAT PUMP CIRCUITS IN AREAS "A" OR "B" HOMERUN TO PANEL "A/C - WEST".
3. AREA "C". HOMERUN POWER CIRCUITS TO PANEL "C2". ALL HEAT PUMP CIRCUITS IN AREA "C" HOMERUN TO PANEL "A/C - EAST".
4. PROVIDE 2" PVC DUCT WITH PULL WIRE FOR UNDERGROUND TELEPHONE SERVICE. EXTEND DUCT TO TELEPHONE COMPANY POINT OF SERVICE (VERIFY).
5. PROVIDE 2" UNDERFLOOR DUCT TO DISPATCH DESK LOCATION WITH PULL WIRE. STUB UP THRU FLOOR SLAB.
6. STUB 2" UNDERFLOOR DUCT UP AT DESK AND AT OUTSIDE WALL INTO CEILING SPACE FOR POWER CIRCUITS.
7. STUB 2" UNDERFLOOR DUCT UP AT DESK AND THRU OUTSIDE FOUNDATION WALL FOR ANTENNA CABLE ENTRANCE.
8. INSTALL TWELVE (12) DUPLEX RECEPTACLES AT THIS LOCATION ON DEDICATED CIRCUIT. COORDINATE WITH OWNER.

FLOOR PLAN --- POWER / SIGNAL

1/8"=1'-0"

NORTH

REGISTERED PROFESSIONAL ENGINEER 4480 OREGON OCT. 30, 1979 ROBERT J. HILL

6-30-82

BUREAU OF LAND MANAGEMENT
VALE DISTRICT OFFICE
VALE, OREGON

NOT APPROVED 6-18-82
B. NICHOLAS

GENERAL ELECTRICAL PROVISIONS - SECTION 16010

PART 1 - GENERAL

DRAWINGS

Work of this Section is bound by the accompanying electrical drawings.

PERMITS AND INSPECTIONS

Permits. Obtain all permits and pay fees required by governing agencies having jurisdiction over this work.

Inspections. Arrange and pay for inspections and tests required by codes or ordinances during construction.

CODES

Conform to all Utility Company requirements and to all applicable codes, laws, ordinances, rules and regulations. Pay all fees in connection therewith. The apparatus, equipment, materials and installation shall conform with standards of NEMA, UL, IEEE, NEC, NFPA and all local codes, laws or ordinances.

SHOP DRAWINGS, PRODUCT DATA & SAMPLES

Submit for:

Main Service Equipment
Panelboards
Switches, All Types
Receptacles, All Types
Lighting Fixtures
Fuses
Ambient Noise System Equipment

PART 2 - PRODUCTS

MATERIALS

All materials shall be new of the quality herein specified, free from defects and approved by the Underwriter's Laboratories, Inc. Each type of material shall be of the same manufacture throughout the building.

ENGRAVED NAMEPLATES

Nameplates shall be provided for identification of main service equipment, main breakers, panelboards, motor starters, safety switches, and control relays.

Identification nameplates shall be made of laminated black-white-black phenolic plastic, engraved to show white lettering on black background. "MAIN DISCONNECT" labels shall be red-white-red. Gothic lettering shall be used with 3/16 inch minimum letter heights.

Nameplates shall be located on equipment exteriors, visible from working spaces and attached to the equipment with adhesive bond.

CIRCUIT DIRECTORIES

Typewritten index cards shall be provided for branch circuit panelboards to identify areas and equipment served by individual circuits.

Directories shall be mounted under transparent protective cover, set in metal frame on inside of door.

BASIC MATERIALS AND METHODS - SECTION 16100

PART 1 - GENERAL

DRAWINGS

Work of this Section is bound by the accompanying electrical drawings.

CONDUIT

Rigid Steel. Zinc coated hot dipped galvanized. Manufacturers: Western Tube and Conduit Co., Triangle Wire and Conduit, Republic Steel Corp., Rome Wire and Cable Co., or approved.

Electrical Metallic Tubing (EMT). Same protection and manufacture as specified for rigid steel conduit.

Flexible Metal Conduit and Liquid Tight Flexible Metal Conduit. Manufacturers: Triangle Wire and Conduit, Acme, Anaconda Metal Hose Division, Electri-flex Co., or approved.

PVC Conduit Polyvinylchloride Schedule 40. Manufacturers: Carlon Products, Western Plastics Corporation, Portco Corporation, or approved.

WIRE

General: All service entrance, feeder, and branch circuit wiring exposed in or on building or installed in masonry walls shall be run in conduit. General branch circuit wiring concealed for lighting and power circuits may be of the non-metallic sheathed cable type (where permitted by Code), except for outlets located in concrete or concrete block walls. All building wire shall be copper unless aluminum (AL) is specifically shown. All wire shall be color coded, marked with gauge type and manufacturer on 24" centers, bear Underwriter's label and be delivered to job in original unbroken containers. All wire #8 AWG size and larger shall be stranded. All wire #10 AWG size and smaller shall be solid. Manufacturers: General Cable Co., Okonite, Triangle Cable Co., Anaconda, or approved.

Copper Wire. Not less than 98% conductivity.

Aluminum Wire. Not less than 61% conductivity.

Insulation Types. Copper wire #10 AWG size and smaller Type "TW" or "THHN"; #8 AWG size and larger Type "THW" or "XHHW". All aluminum wire, Type "THW" or "XHHW".

All wire run in ballast compartment of continuous row fluorescent fixtures shall be Type "RHH". Other fixture wire shall be of Type "AF" or "SFF".

WALL SWITCHES - SINGLE POLE, DOUBLE POLE, 3-WAY, 4-WAY, KEY OPERATED

Premium Specification Grade meeting Federal Specification W-S-896d. 20 amp, 120/277 volt, lifetime quiet type. Toggle and switch plates: Ivory color. Raised galvanized may be used in unfinished areas where conduits run exposed. Manufacturers: Arrow-Hart, Bryant, G.E. Hubbell, Leviton, P & S, Sierra, Slater, or approved. Reference example: Sierra #5021 Series.

WALL SWITCHES - PILOT LIGHT TYPE (LIGHTED TOGGLE - "ON")

Same specification grade as for general wall switches. Reference example: Sierra #5027R.

250 VOLT RECEPTACLES

Heavy duty, Specification Grade, configuration and amperage as noted on drawings, or, if not noted, to match owner's equipment. Manufacturers: Arrow-Hart, Bryant, G.E., Hubbell, Leviton, P & S, Sierra, Slater, or approved.

DUPLEX RECEPTACLES

Premium Specification Grade meeting Federal Specification W-C-596e, and NEMA Standard WD-1. 15 amp, 125 volt. Industry Class 5252. Outlets and Outlet Plates: Ivory color. Manufacturers: Arrow-Hart, Bryant, G.E., Hubbell, Leviton, P & S, Sierra, Slater, or approved. Reference example: Sierra #1400 Series.

WEATHERPROOF RECEPTACLES

Each receptacle to consist of duplex receptacle as specified above, mounted in cast metal box with gasketed, weatherproof cast metal coverplate and cap, Sierra WP-26, Hubbell 5211 or approved.

DUPLEX RECEPTACLES - GROUND FAULT INTERRUPTING TYPE: Specification Grade, feed thru type, 15 amp, 125 volt. Manufacturers: Same as for standard duplex receptacles.

TELEPOWER POLES

Brushed anodized aluminum, two compartment (power/communications), 2" square cross section with four single grounding type receptacles. Wiremold, Catalog No. ALTP-4.

OUTLET BOXES

Galvanized or sherardized, one piece pressed steel of proper size and depth to accommodate number of conductors, fixture or device indicated.

Deep type boxes used with 1" conduits and larger.

Boxes for fixtures: Not less than 4".

Boxes for switches: At least 1-1/2" deep, rectangular or square, with switch plaster ring and gang cover.

Boxes installed in wet or damp locations: FS or FD type, cast metal.

PART 3 - EXECUTION

CONDUIT

Conduit shall be concealed except in electrical equipment rooms, mechanical equipment areas, in attics and crawl spaces, and where otherwise noted or approved.

Rigid Galvanized Steel Use where run in ground, in concrete floors, in contact with the ground, in all hazardous locations or run outside of building or where subject to mechanical damage. Make up joints with cold galvanizing compound and where underground paint with asphaltic compound 12" each side of coupling.

Electrical Metallic Tubing (EMT) Use in dry locations in ceilings, walls, and furred areas. May be used in masonry or concrete walls.

Fittings Steel gripping ring type with insulated throat, or steel indenter type where used indoors in dry locations only. Cast metal fittings are not acceptable.

Flexible Metal Conduit Shall be used for connection of all motors or other moveable or vibrating equipment connections.

Liquid tight flexible metallic conduit shall be used for similar connections in all wet or damp locations.

Provide ground connections per code requirements.

PVC Conduit Used where shown on drawings. Install with sealed joints. Make watertight.

WIRE

Size #12 AWG Wire: The minimum size wire used for lighting and power circuits. Control circuits made be #14 AWG wire provided this size is adequate for voltage and current involved.

OUTLET BOXES

Installation: Place accurately for finish. Support independently and securely with appropriate mounting device and align to present a neat and finished appearance.

Sound Control: Install outlet boxes and conduit using installation methods which minimize sound transmission from one room to adjacent rooms.

Boxes mounted in a common wall, wherever possible offset horizontally so that they are not mounted back-to-back, connect with flexible conduit not to exceed 18" in length. Where it is not practical to offset boxes, mount back-to-back with a minimum clearance of 1/4" between boxes and with a sheet of high density fiber glass between boxes.

EQUIPMENT CONNECTIONS - SECTION 16170

PART 1 - GENERAL

DRAWINGS

Work of this Section is bound by the accompanying electrical drawings.

DESCRIPTION

The Contractor shall furnish and install power wiring and make electrical connections from building wiring system to all equipment items having electrical power requirements, but not furnished under this division.

PART 2 - PRODUCTS

DISCONNECTS

Provide branch circuit protection and disconnect switches required by code and manufacturer's instructions.

PART 3 - EXECUTION

MOUNTING

Mount items that are specifically electrical in nature and wired through under this Section such as time switches, relays, motor starters, alarm bells, etc., furnished by supplier/installer.

Motor starters and disconnect switches shall be readily accessible and with clearance as required by applicable codes.

IDENTIFICATION

Install engraved coverplates or nameplates in accordance with Section 16040 on all controls and switches installed under this Section for operation of equipment.

ROUGH-IN

Verify exact equipment service points of fixtures and equipment with supplier/installer prior to rough-in.

FLEXIBLE CONDUIT

Use for connection from junction box to motors and mechanical equipment. Allow sufficient length for full travel of equipment. Route in full loop for noise and vibration control.

SERVICE AND DISTRIBUTION - SECTION 16400

PART 1 - GENERAL

DRAWINGS

Work of this Section is bound by the accompanying electrical drawings.

SYSTEM OF DISTRIBUTION

Electrical System Characteristics: 120/240V, three phase, 4 wire, Delta

IDENTIFICATION

See Section 16040.

NEW OVERHEAD SERVICE

Provide weatherheads, service entrance ducts and conductors for a complete electrical service system. Coordinate all aspects of work with serving utility; verify all requirements of the Owner.

METERING

Provide meter base and C.T. enclosure as shown on drawings. Coordinate all aspects with utility.

PART 2 - PRODUCTS

SERVICE ENTRANCE DUCT

Rigid steel conduit, sized as shown at Riser Diagram; location as shown on plans.

MAIN DISTRIBUTION ASSEMBLY

Arrange for 120/240 volt 3-phase, 4-wire service with half size neutral, dead front, indoor construction, fabricated from cold rolled steel. See Riser Diagram.

Distribution Assembly shall be bussed with rectangular aluminum bus bars and braced to withstand fault current of 50,000 amperes symmetrical.

Prior to painting, the sheet metal shall be thoroughly cleaned from all welding splatter, dirt and rust. It shall be primed with chromate rust preventative and an additional prefinish coat. The finish shall be baked enamel, free of blemish, orange peel effects, runs or ripples, providing a first class finish.

Manufacturer shall be Gould - ITE, Westinghouse, General Electric, Square 'D', FPE, Cutler Hammer or approved.

PANELBOARDS

Panelboards: factory assembled, bolted to bus, dead front safety type as manufactured by General Electric, Westinghouse, Gould-ITE, Square 'D', FPE, Cutler Hammer or approved.

Panelboard enclosures: code guage galvanized metal with hinged doors with locks. All locks keyed alike. Inner door equipped with bakelite nameplate and circuit identification card. Cards filled out with description to indicate area served and type of load.

CIRCUIT BREAKERS

Molded case, thermal magnetic circuit breakers are to be totally front accessible and front connectable. The circuit breakers are to be mounted in the switchboard to permit installation, maintenance and testing without reaching over any line size bussing. Line side circuit breaker connections are to be bolt-on type.

Each circuit breaker is to be furnished with an externally operable mechanical means to trip the circuit breaker, enabling maintenance personnel to verify the ability of the circuit breaker trip mechanism to operate as well as exercise the breaker latch and operating mechanisms.

FUSIBLE SWITCHES

Heavy duty, quick-make, quick break with Class R rejection feature, size as shown on plans. Gould-ITE, Square D, FPE, General Electric, Cutler Hammer, Westinghouse, or approved.

FUSES

All fuses shall be U.L. rejection type "R". Fuses shall be labeled as current-limiting with an interrupting rating of 200,000 r.m.s. amperes. In main disconnects, fuses shall be U.L. Class RK1 without time delay, Shawmut Amp-Trap A2K or approved equal.

PART 3 - EXECUTION

OVERHEAD SERVICE

Verify all requirements with utility.

Electrical Contractor to make secondary service conductor connections at Main Distribution Assembly.

METERING

Loop new service entrance conductors through C.T.'s furnished by utility, but installed by Electrical Contractor inside "NDA" C.T. Section.

MAIN DISTRIBUTION ASSEMBLY

Securely anchor to building wall. Caulk all duct and cable penetrations thru floor watertight. Provide cable supports for all cables entering distribution assembly from point of entry to their respective circuit breaker, or fusible switch as applicable.

PANELBOARDS

Installation:

Panelboards shall be flush or surface mounted as shown on Drawings. Install with top of enclosure 6'-0" above finished floor.

Balance electrical loads at panelboards. Check rotation of all motors and correct if necessary after final service connections are made.

GROUNDING: GENERAL

All conduit systems, supports, cabinets, equipment cases, switchboards, motor frames and system neutral conductors shall be permanently and effectively grounded. Continuity of equipment ground shall be maintained throughout the system. Ground clamps shall be approved types specifically designed for grounding. Where the grounding conductor is enclosed in conduit, ground clamp shall be of type which grounds both the conductor and conduit.

LIGHTING - SECTION 16500

PART 1 - GENERAL

DRAWINGS

Work of this Section is bound by the accompanying electrical drawings.

PART 2 - PRODUCTS

LIGHT FIXTURES

Fixture Types: Use fixtures as listed in Light Fixture Schedule on drawings.

LAMPS

Fluorescent Lamps: "Lite White", second generation energy saving type, as manufactured by General Electric, Westinghouse, Sylvania, or approved.

Wet Locations: Fixtures installed in wet or damp locations UL approved "Wet" or "Damp" Label.

Incandescent Lamps: Extended service type, same manufacturer as for fluorescent lamps, 130 volts.

BALLASTS

Fluorescent Ballasts: Energy saving type required for the number and type of lamps in each case, HPF-ETL and UL approved. Rapid start ballasts shall be Premium Grade Class P thermally protected reset ballasts to meet Section 410-71(e) of the National Electrical Code; shall be Advance Kool Koil Mark III or equal. All ballasts shall be guaranteed by the manufacturer for a period of two years after installation. Rapid start ballasts shall be certified to have an "A" sound rating. Exterior ballasts shall be special for cold weather use. The voltage rating of the ballast shall be as required for the service voltage.

Noisy Ballasts shall be replaced at no cost to Owner.

DIFFUSING MEDIA

All plastic diffusing media furnished by the specified manufacturers listed in Light Fixture Schedule is to be, without exception, 0.125" thick (nominal), 100% virgin acrylic plastic. Approved manufacturers: KSH Plastics, Carolite Plastics or Plaskolite, Inc.

LIGHTING FIXTURES

Provide lighting fixtures at the outlets as shown on the drawings according to the symbol at the outlets and as listed in the fixture schedule. Fixtures as specified or their approved equal shall be installed complete with lamps.

Lighting Fixture Accessories: The lighting fixture supplier shall provide all necessary hanging or mounting devices for all fixtures and shall be responsible for checking and verifying the type needed for various ceiling conditions.

Prior to ordering any lighting fixtures, coordinate ceiling construction and trim details with the ceiling systems as finally selected.

Fixture Support: Recessed fluorescent fixtures in T-bar ceiling.

Each fixture shall be wired with a 72" piece of flexible conduit. Provide 2 "T" bar locking clips for each lay-in fluorescent fixture installed into exposed "T" bar ceiling systems. Attach clips to fixture with sheet metal screws or similar device and secure to main or supporting "T" bar runners.

TELEPHONE SYSTEM - SECTION 16740

PART 1 - GENERAL

DRAWINGS

Work of this Section is bound by the accompanying electrical drawings.

PART 2 - PRODUCTS

DUCTS

Provide duct sleeved thru foundation wall where shown on drawings to receive underground service. Coordinate sleeve location with Owner. Connect sleeve to service duct. Use Schedule 40, Polyvinyl chloride, with pull wire.

TELEPHONE TERMINAL BOARDS (TTB'S)

4'x4'x8', 3/4" thick plywood, exterior construction. Paint 2 coats grey enamel. Provide 120 volt outlet and ground wire to electrical service ground as required.

OUTLET BOXES

Wall Type: 4" square metallic with single gang, plaster ring and blank cover plate. Plate finish to match other device plates. Provide 3/4" conduit stubs into accessible ceiling or crawl space as shown on drawings.

TELEPHONE EQUIPMENT

All wires, cables, and terminals by telephone system installer.

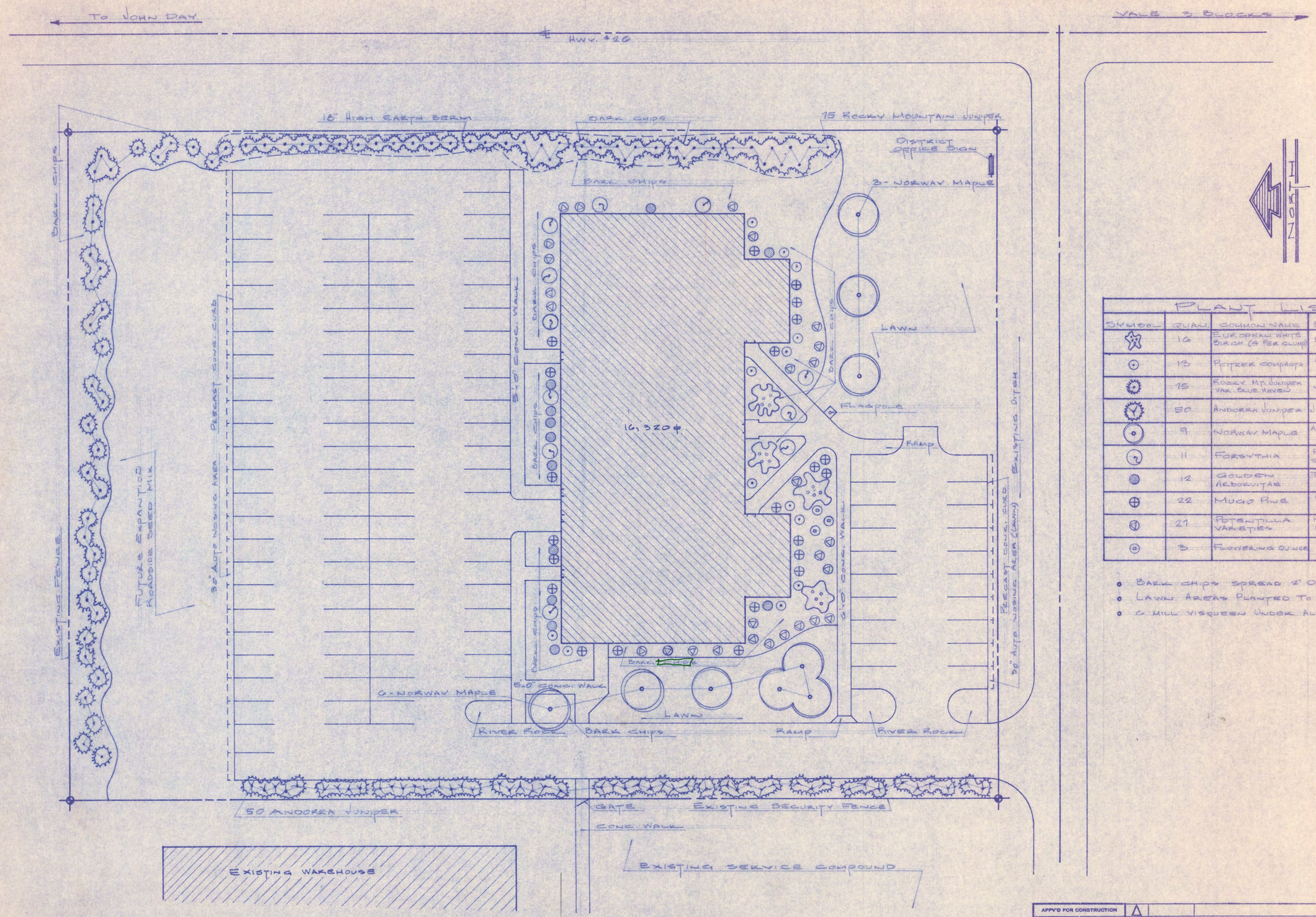
PART 3 - EXECUTION

WIRING

Cable installation by telephone system installer.

REGISTERED PROFESSIONAL ENGINEER
OREGON
OCT. 30, 1979

MATERIAL SCHEDULE			
ITEM	REQ.	DESCRIPTION	DIMENS



LANDSCAPE PLAN SCALE 1" = 20'-0"

NORTH

PLANT LIST

SYMBOL	QUAN.	COMMON NAME	BOTANIC NAME	SIZE
☆	16	EUROPEAN WHITE BIRCH (4 PER CLUMP)	BETULA PENDULA	8-9' BR
⊙	13	PFITZER COMPACTA	JUNIPERUS PFITZERIAN COMPACTA	12"-15"
✿	15	ROCKY MT. JUNIPER VAR. BLUE HAVEN	J. SCOPULORUM	2'-3'
Y	50	ANDORRA JUNIPER	J. HORIZONTALIS PLUMOSA	1 GAL. 8-10" SP
⊙	9	NORWAY MAPLE	ACER PLATANOIDES SCHWEDLER	6-8 BR
⊙	11	FORSYTHIA	F. INTERMEDIA SPRING GLORY	2'-3' BR
●	12	GOLDEN ARBORVITAE	THUJA OCCIDENTALIS BERKMANS	10"-12"
⊕	22	MUGO PINE	PINUS MUGO MUGHUS	12"-15"
◐	21	POTENTILLA VARIETIES	POTENTILLA FRUTICOSA	12"-15"
⊕	3	FLOWERING QUINCE	CHAENOMELES CHOSAL SEEM	12"-15"

- BARK CHIPS SPREAD 2" DEEP (APPROX. 15 UNITS)
- LAWN AREAS PLANTED TO PROP. LINE
- 6 MIL VISQUEEN UNDER ALL RIVER ROCK & BARK

APPV'D FOR CONSTRUCTION			
DATE	REV.	DATE	EXPLANATION

REGISTERED PROFESSIONAL ENGINEER 4480 OREGON OCT. 30, 1979 ROBERT J. HILL
6-30-82

The Professional Engineer's Seal appearing on this drawing applies only to the work as shown on this drawing for the original title block designation. Any alteration or reuse of this drawing without the written consent of the engineer is prohibited.

B.L.M. DISTRICT OFFICE
VALE, OREGON

DATE DRAWN:	DRAWN BY:	DATE CHECKED:	CHECKED BY:	SCALE
				DRAWING 820

R. J. HILL ENGINEERING CO.
EUGENE, OREGON

REV. NO.

BULLFROG ENTERPRISES, EUGENE, OR.