

HVAC LEGEND	
	NEW DUCT WORK AND/OR EQUIPMENT
	EXISTING DUCT WORK AND/OR EQUIPMENT
	HIDDEN DUCT WORK AND/OR EQUIPMENT
	DUCT WORK AND/OR EQUIPMENT TO BE DEMOLISHED
	RETURN AIR DUCT UP
	SUPPLY AIR DUCT UP
	EXHAUST AIR DUCT UP
	RETURN AIR DUCT DOWN
	SUPPLY AIR DUCT DOWN
	EXHAUST AIR DUCT DOWN
	ELBOWS WITH TURNING VANES
	TEE DUCT WITH TURNING VANES
	DUCT WITH ACOUSTICAL LINING
	DUCT DROP (IN DIRECTION OF AIRFLOW)
	DUCT RISE (IN DIRECTION OF AIRFLOW)
	TRANSITION SQUARE TO ROUND
	TRANSITION SQUARE TO SQUARE/ROUND TO ROUND
	FLEXIBLE DUCT
	FLEXIBLE CONNECTION
	RADIUS ELBOW
	SUPPLY AIR RECTANGULAR CEILING DIFFUSER
	RETURN AIR CEILING REGISTER/GRILLE
	EXHAUST AIR REGISTER GRILLE
	VERTICAL DUCT DROP
	VERTICAL DUCT RISE
	DETAIL TOP - I.D. NUMBER REF. BOTTOM - SHT. NUMBER
	SECTION TOP - I.D. NUMBER REF. BOTTOM - SHT. NUMBER
	FIRE DAMPER
	COMBINATION OF SMOKE & FIRE DAMPER
	MANUAL VOLUME DAMPER
	DOOR LOUVER
	UNDERCUT (DOOR)
	CONDENSATE DRAIN
	THERMOSTAT
	SMOKE DETECTOR
	DIAMETER/ROUND
	SQUARE FEET
	PROVIDED AND INSTALLED BY DIVISION 15
	PROVIDED AND INSTALLED BY DIVISION 15 CONTROL
	PROVIDED AND INSTALLED BY DIVISION 16
	POC POINT OF CONNECTION
	DIFFUSER NECK SIZE CFM

- ### GENERAL NOTES
- MECHANICAL CONTRACTOR SHALL EXAMINE ALL OTHER SPECIFICATIONS, DRAWINGS AND ALL FEATURES OF BUILDING CONSTRUCTION WHICH MAY AFFECT HIS WORK AND SHALL BE GOVERNED BY THESE AND OTHER SPECIFICATIONS, INCLUDING THE GENERAL CONDITIONS AND PARTICULAR INSTRUCTIONS TO ALL BIDDER AND SUPPLIERS.
 - ALL WORK SHALL BE EXECUTED AND INSPECTED IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND/OR STATE CODES, LAWS, ORDINANCES, RULES AND REGULATIONS APPLICABLE TO THIS PARTICULAR CLASS OF WORK, AND EACH CONTRACTOR SHALL INCLUDE IN HIS PRICE ALL APPLICABLE SERVICE CHARGES, FEES, PERMITS, TAXES, AND OTHER SIMILAR COSTS IN CONNECTION THEREWITH.
 - PRIOR TO FABRICATION OF DUCTWORK, THE MECHANICAL CONTRACTOR SHALL EXAMINE AND VERIFY ALL CONDITIONS ABOVE AND BELOW THE CEILING WHICH MAY INTERFERE WITH THE DUCT SYSTEM AND NOTIFY THE ARCHITECT OF ANY CONFLICT ENCOUNTERED. CONTRACTOR SHALL PROVIDE ALL OFFSETS, ETC. WHICH MAY BE REQUIRED, WITHOUT ADDITIONAL COST TO THE OWNER.
 - ALL SHEET METAL DUCT CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH "SMACNA" LOW PRESSURE DUCT CONSTRUCTION STANDARD.
 - TURNING VANES SHALL BE INSTALLED IN ALL BENDS IN RECTANGULAR DUCT EXCEEDING 30"
 - ALL DUCTS SHALL BE SUPPORTED WITH 1" WIDE, 16 GAUGE, GALVANIZED STEEL BANDS.
 - ALL RECTANGULAR DUCT SHALL BE INSULATED WITH A MIN. OF 1" INTERNAL LINER, 2 LBS. DENSITY R-6.0. ALL ROUND DUCTS AND DIFFUSER TOPS SHALL HAVE A MIN. 2" THICK OF FOIL BACKED BLANKET TYPE INSULATION R=4-4.2, WITH ALL JOINTS BUTTED AND TAPED.
 - ALL DUCT DIMENSIONS SHOWN ON PLANS ARE INTERNAL
 - THE MECHANICAL CONTRACTOR SHALL COORDINATE THE LOCATION OF SUPPLY AND RETURN AIR REGISTERS, DUCTS, GRILLES AND DIFFUSERS WITH LIGHTING AND CEILING PATTERNS.
 - PROVIDE LATERAL BRACING OF ALL DUCTS AND PIPES AS REQUIRED BY CODE.
 - INSULATE AND SEAL ALL DUCTWORK PER CHAPTER 10 OF THE STATE MECHANICAL CODE (T-24, PART 4).
 - MOUNT ALL THERMOSTATS AT 48" ABOVE FINISHED FLOOR.
 - ALL BRACING OF DUCTS AND PIPING SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES.
 - WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT AND THE MECHANICAL ENGINEER.
 - DUCT SMOKE DETECTOR SHALL BE INSTALLED BELOW THE ROOF.
 - HVAC SYSTEM AND COMPONENTS WILL BE TESTED, ADJUSTED AND BALANCED IN ACCORDANCE WITH ONE OF THE FOLLOWING STANDARDS:
 - TABB'S CONSTRUCTION SPECIFICATION INSTITUTE MASTERFORMAT
 - NEBB'S STANDARDS FOR TESTING, ADJUSTMENT, AND BALANCING AND BALANCING OF ENVIRONMENTAL SYSTEMS (7TH EDITION)
 - AABC'S NATIONAL STANDARDS FOR TOTAL SYSTEM BALANCE (6TH EDITION)
 - ASHRAE'S STANDARD 111-2008
 - A FINAL REPORT FOR THE TESTING AND ADJUSTING OF ALL NEW SYSTEMS SHALL BE COMPLETED PRIOR TO FINAL APPROVAL BY THE FIELD INSPECTOR. THIS REPORT SHALL BE SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.
 - ALL COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION.
 - A FINAL REPORT FOR THE TESTING AND ADJUSTING OF ALL NEW SYSTEMS SHALL BE COMPLETED PRIOR TO FINAL APPROVAL BY THE FIELD INSPECTOR. THIS REPORT SHALL BE SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.

PACKAGED AIR CONDITIONING UNIT SCHEDULE (HEAT PUMP)

SYMBOL	LOCATION	MANUFACTURE MODEL	SUPPLY AIR CFM	ESP IN. WG	CLG CAP TOT MBH	CLG CAP SENS MBH	HTG CAP MBH	COMP. RLA	O.F. FLA	I.F. FLA	MCA	MOCP	POWER EXH FLA	VOLT	PH	HZ	SEER	EEER	OSA CFM	OPER. WT (LBS)	EFFIE--CIENCY	REMARKS
	ROOF	"AMANA" APH14M 36M41A	1200	0.50	34.4	26.2	33.2	16.7	-	-	26.6	40	-	208/230	1	60	14.00	11.0	-	400	82%	FURNISH AND INSTALL FILTERS WITH RAINHOOD. PROGRAMMABLE THERMOSTAT PER MANUFACTURER'S RECOMMENDATIONS.

EXHAUST FAN SCHEDULE

MARK	SERVING	TYPE	SELECTION BASED ON				MOTOR DATA				WEIGHT LBS	REMARKS	
			MFR	MODEL	CFM	S.P. IN. W.C.	RPM	DRIVE TYPE	W	HP			VOLTS/PH/HZ
	FIRST FLOOR RESTROOM	CEILING	GREENHECK	SPA-110	70	.125	1400	DIRECT	54.4	-	120/1Ø/60	34	PROVIDE BACKDRAFT DAMPER, CONTROL WITH TIMECLOCK

DIFFUSER, REGISTER AND GRILLE SCHEDULE

TYPE	A	B	C	D	E	F
KRUEGER	RM1	RIDBRI0	1240	180	EGC-5	S80
FACE TYPE	RD	RD	H45	H45	EG	H35
MOUNTING	S	S	S	S	S	S
PATTERN	ADJ	AD	4W	FIX	FIX	FIX
DAMPER	OB	OB	OB	OB	OB	OB
MATERIAL	ST	ST	ST	ST	ST	ST
FINISH	W	W	W	W	W	W

FACE TYPE:
RD - ROUND
PR - PERFORATED
H45 - HORIZ. 45 FIXED BLADES
MOUNTING:
FL - FLUSH
S - SURFACE

PATTERN:
ADJ - ADJUSTABLE
4W - FOUR WAY
FIX - FIXED

DAMPERS:
OB - OPPOSED BLADE

FINISHES:
W - WHITE

MATERIAL:
ST - STEEL

DUCT MATERIAL SCHEDULE

SYSTEM	MATERIAL	PRESSURE CLASS	GAUGE
SUPPLY GENERAL	CALV. STEEL ASTM S261	+2" WG	SMACNA TABLE 1-5, 1-10 THRU 1-13
		4" POS	SMACNA TABLE 1-5, 1-10 THRU 1-13
RETURN GENERAL	CALV. STEEL ASTM S261	-2" WG	SMACNA TABLE 1-5, 1-10 THRU 1-13
			SMACNA TABLE 1-5, 1-10 THRU 1-13
EXHAUST GENERAL	CALV. STEEL ASTM S261	-2" WG	SMACNA TABLE 1-5, 1-10 THRU 1-13
			SMACNA TABLE 1-5, 1-10 THRU 1-13

NOTES:
1. ALL DUCT TO BE INSTALLED SHALL BE CLASS "0" OR CLASS "1" PER CMC, SECTION 603.

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PROJECT NO.
16-068

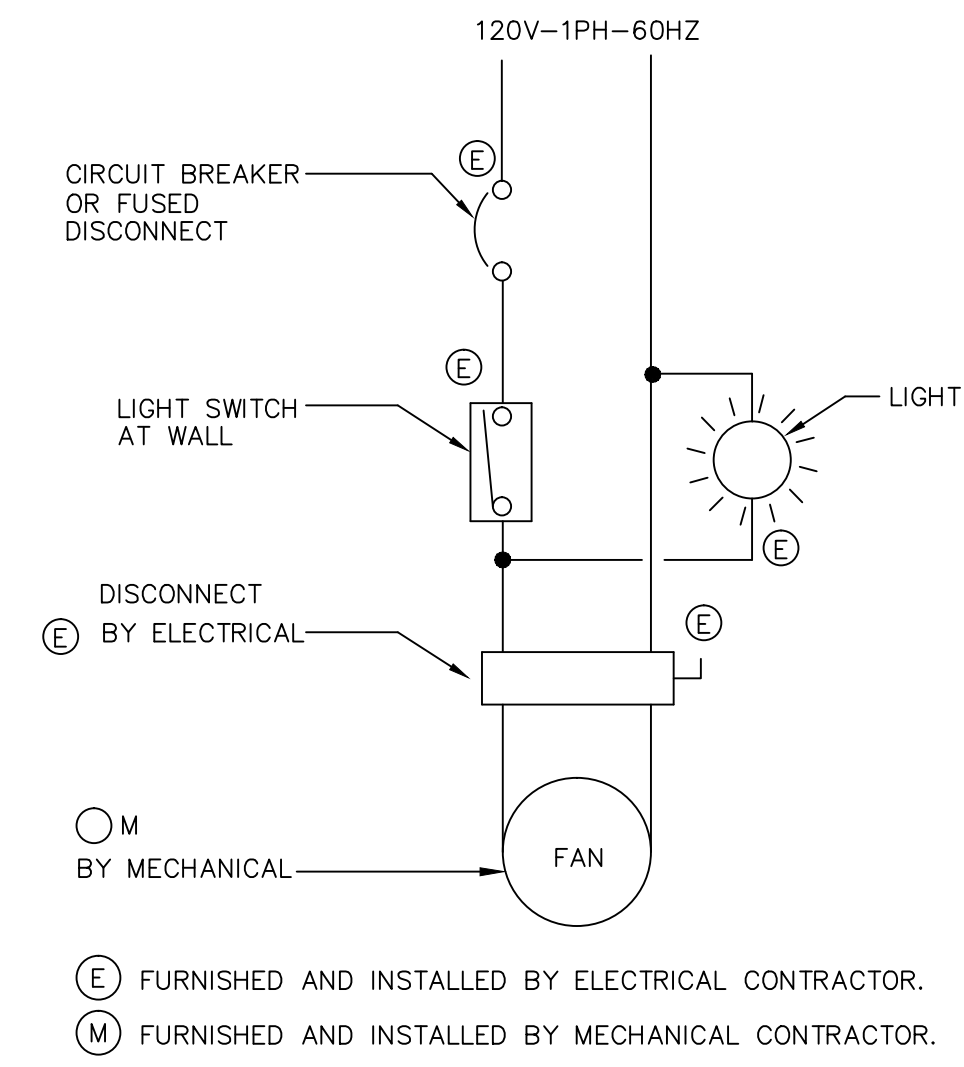


REV	DESCRIPTION	DATE
-	PLAN CHECK	11-07-2016

PROJECT NO.: 16-068
DATE: 2016-10-20
SCALE: AS SHOWN
DRAWN BY: NA
PROJECT NAME: PROJECT NAME

DESCRIPTION:
LEGEND, NOTES AND SCHEDULES

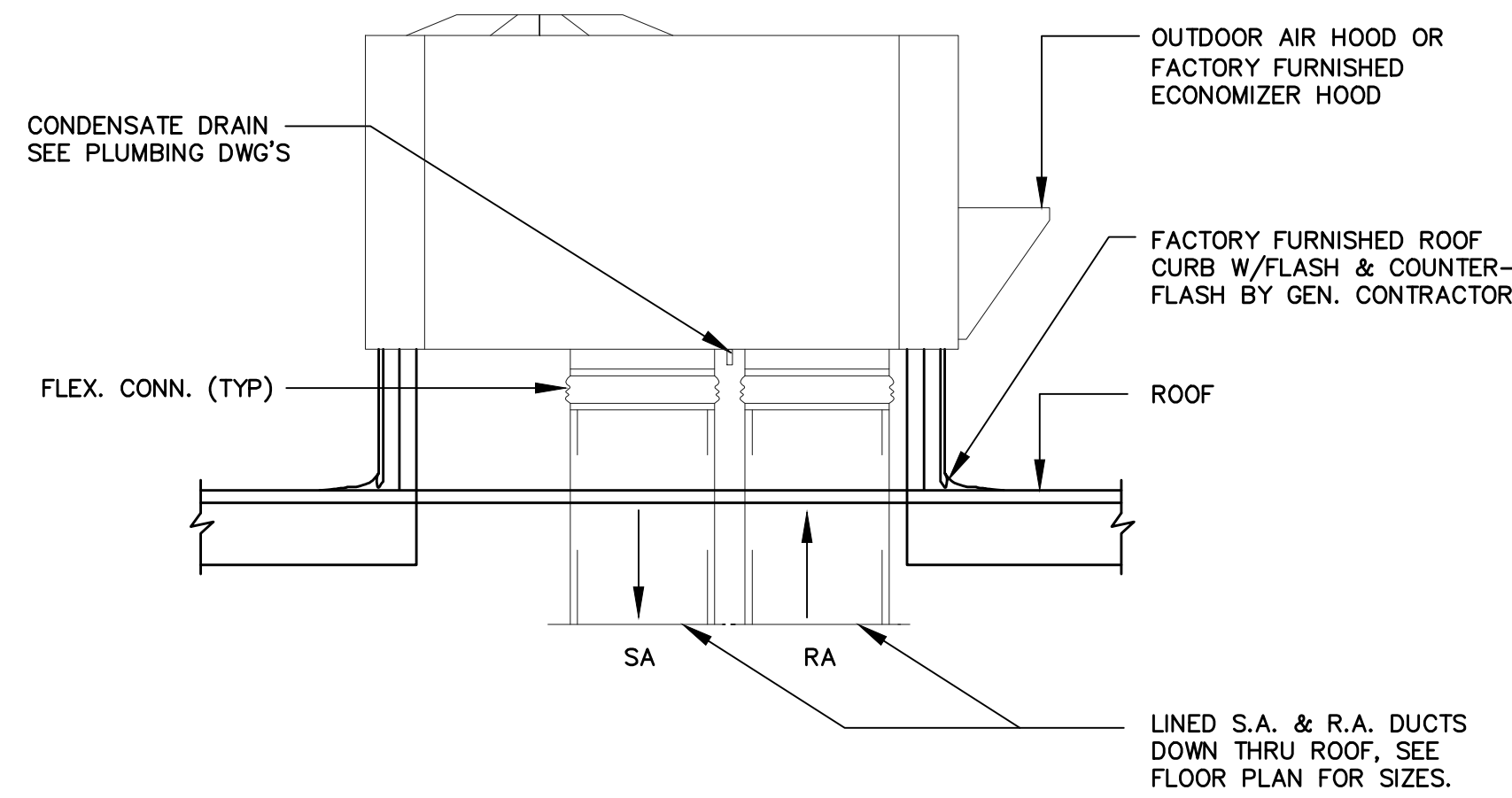
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SINGLE TOILET EXHAUST FAN DIAGRAM.

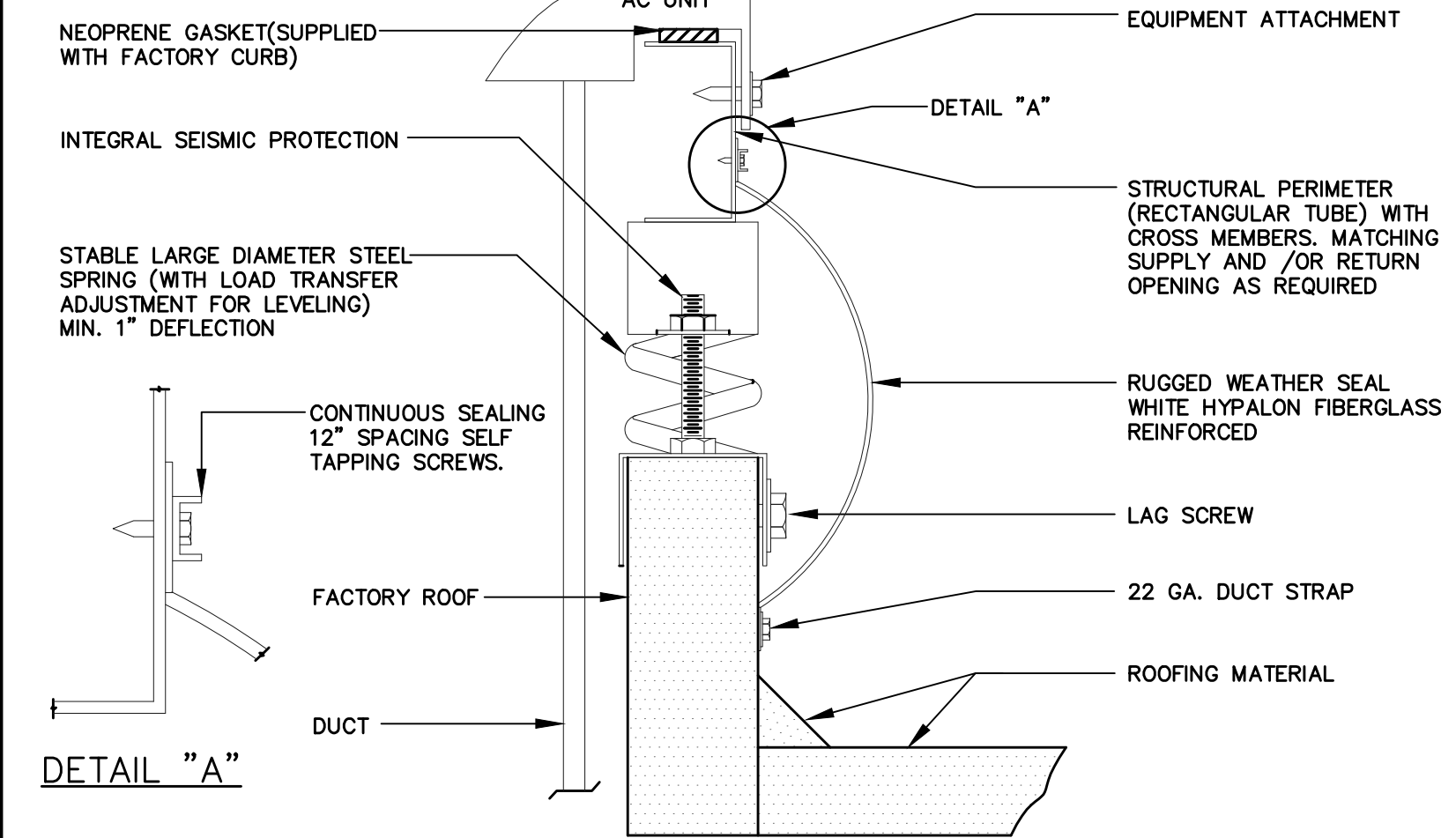
TYPICAL ROOF TOP UNIT DETAIL

SCALE NONE 7



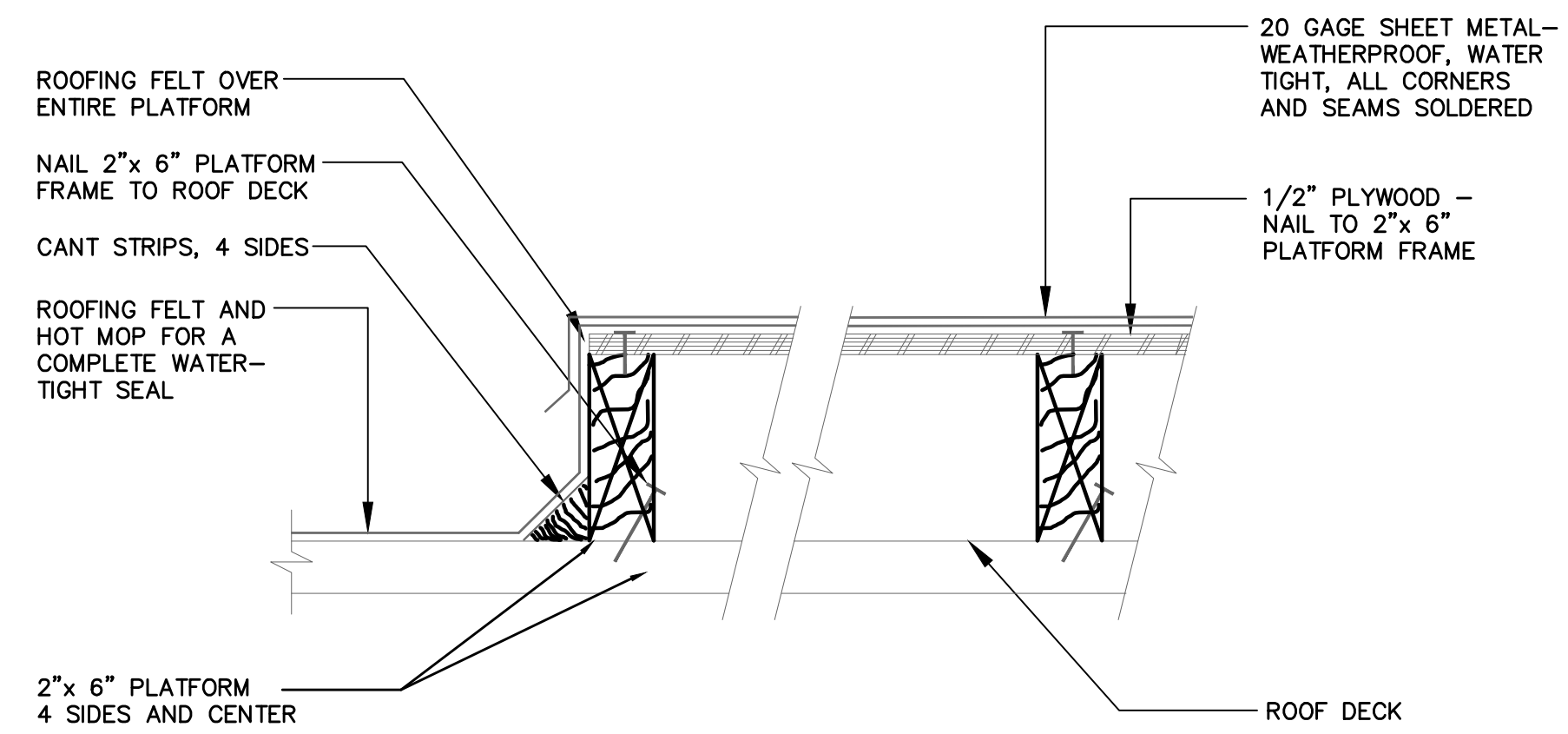
TYPICAL ROOF TOP UNIT DETAIL

SCALE NONE 4



ROOF CURB-SPRING ISOLATOR DETAIL

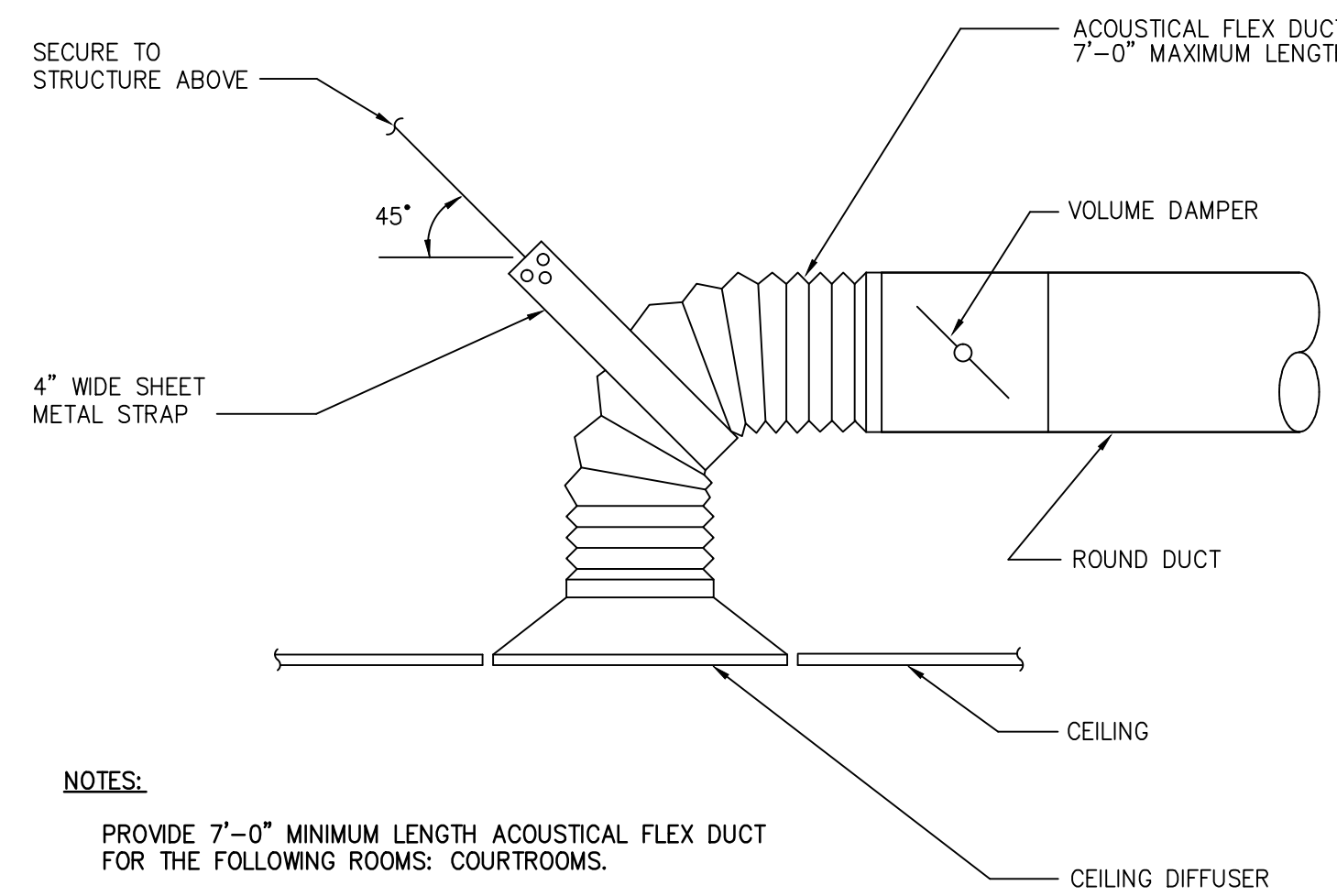
SCALE NONE 1



NOTE: COORDINATE INSTALLATION WITH ARCHITECTURAL DRAWINGS AND DETAILS.

SECTION PLATFORM DETAIL

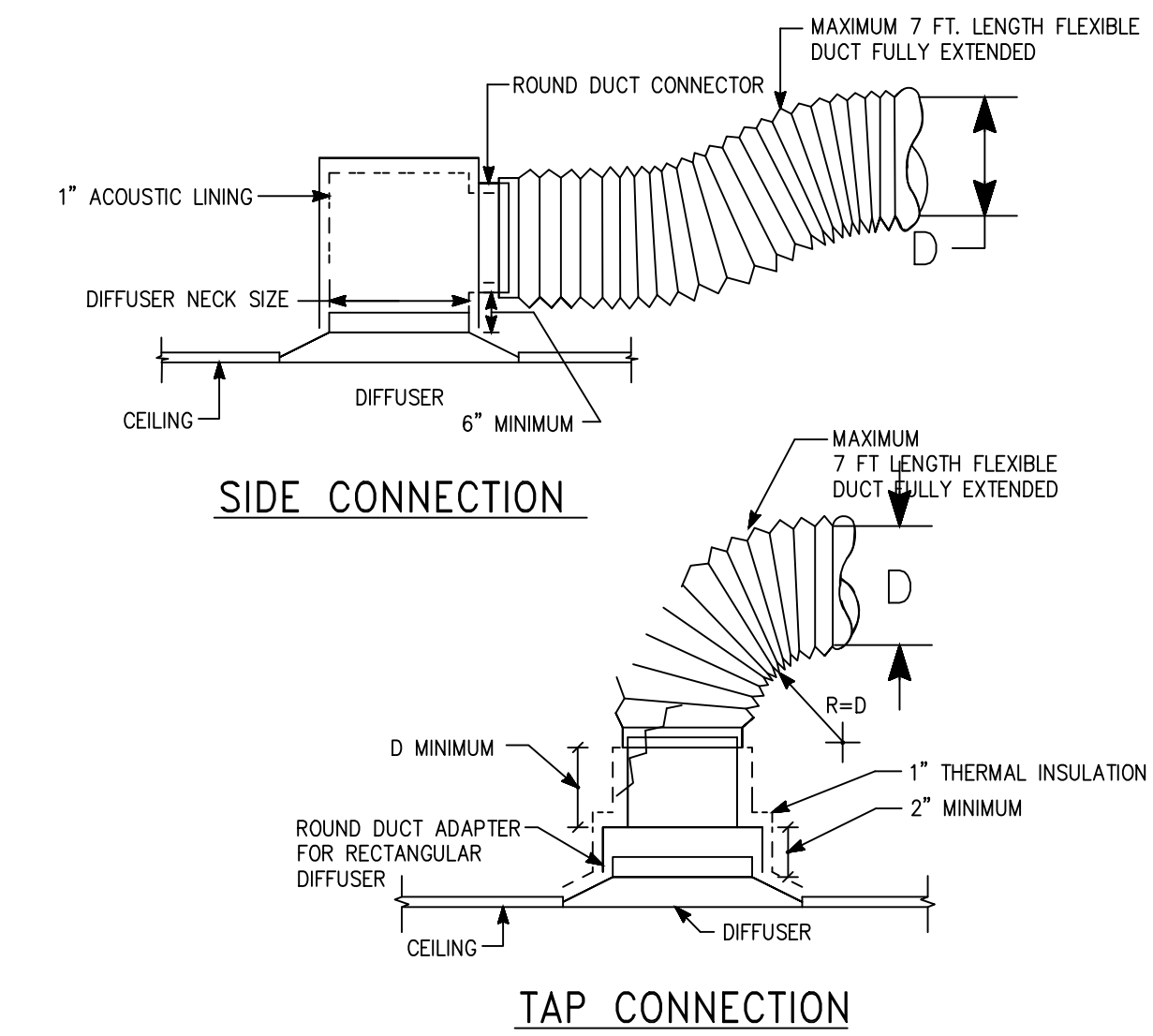
SCALE NONE 8



NOTES:
PROVIDE 7'-0" MINIMUM LENGTH ACOUSTICAL FLEX DUCT FOR THE FOLLOWING ROOMS: COURTROOMS.

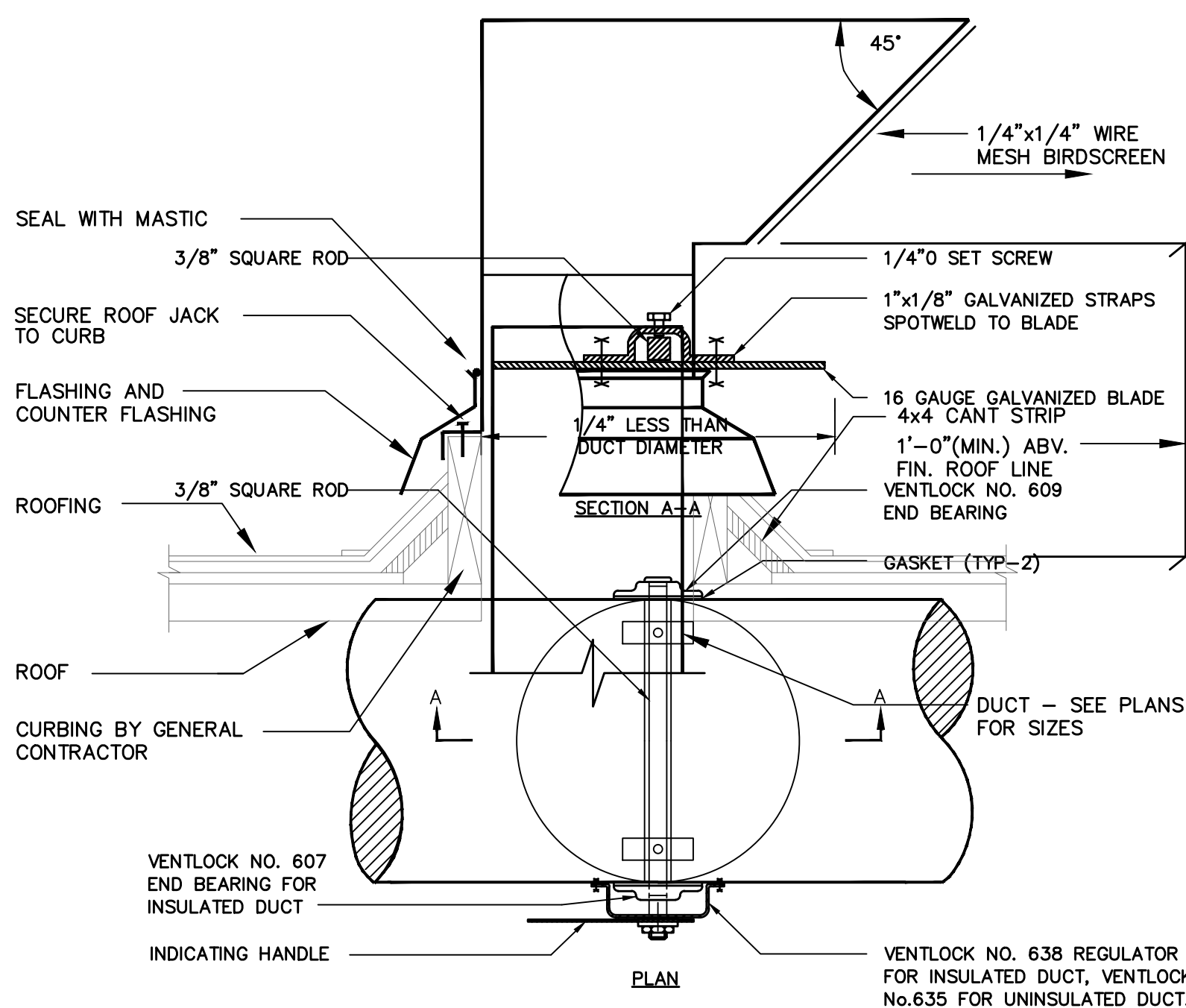
CEILING DIFFUSER

SCALE NONE 5



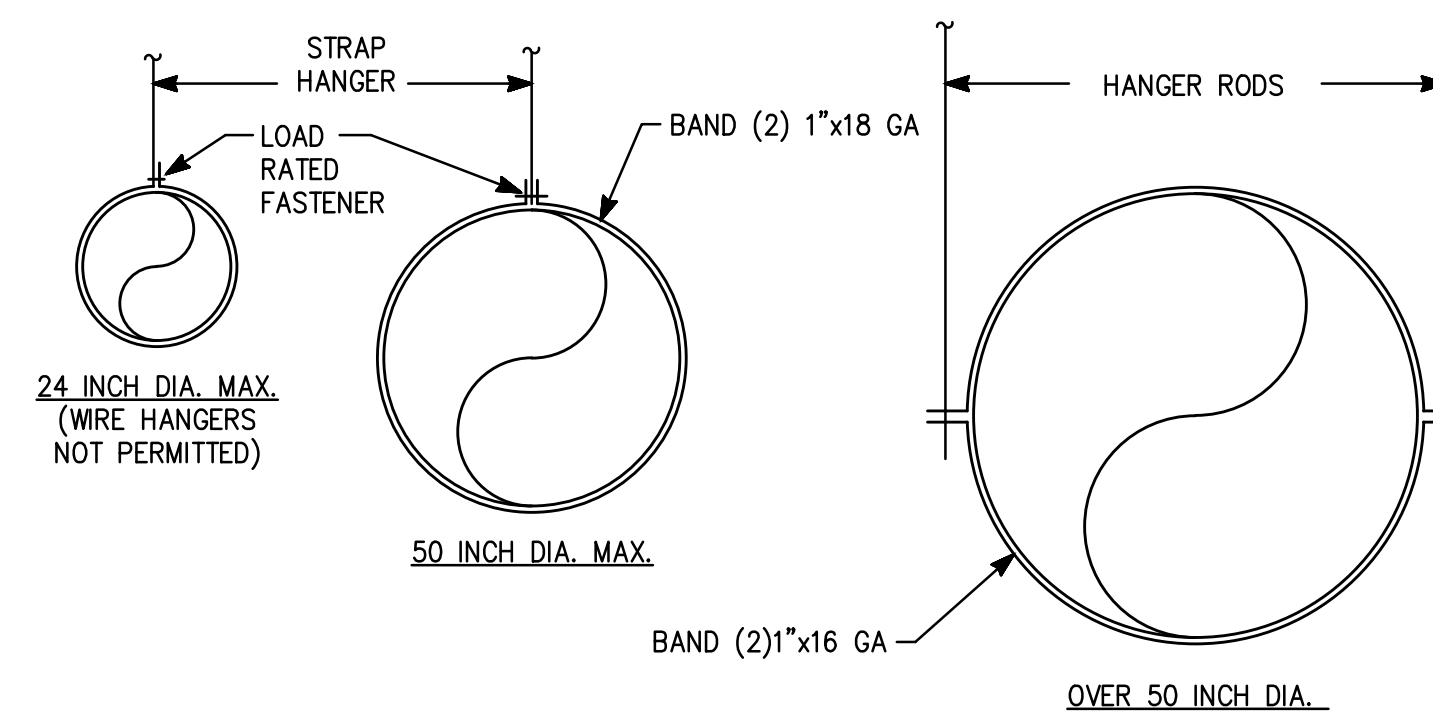
CEILING DIFFUSER CONNECTION DETAIL

SCALE NONE 2



ROOF JACK DETAIL

SCALE NONE 6



NOTES:

- FOR HANGER SIZE AND SPACING, SEE SMACNA HVAC DUCT CONSTRUCTION STANDARDS TABLE 4.2.
- FOR UPPER ATTACHMENT TO BUILDING SEE SMACNA HVAC DUCT CONSTRUCTION STANDARDS FIG. 4-1 AND FIG. 4-2 WITH SPECIFIC BUILDING STRUCTURAL ENGINEER APPROVAL.
- FOR BRACING AND OTHER SEISMIC REQUIREMENTS SEE GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS PUBLISHED BY SMACNA AND PPI. ALSO REFER TO NATIONAL UNIFORM SEISMIC INSTALLATION GUIDELINES (NUSIG).

HORIZ. ROUND DUCT SUPPORTS

SCALE NONE 3

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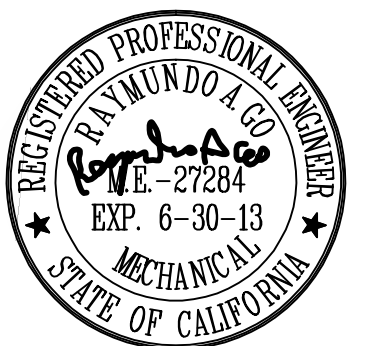
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REV	DESCRIPTION	DATE
-	PLAN CHECK	11-07-2016

PROJECT NO.: 16-068
DATE: 2016-10-20
SCALE: AS SHOWN
DRAWN BY: NA
PROJECT NAME: PROJECT NAME

DESCRIPTION:

MECHANICAL DETAILS

SHEET NUMBER: **M-3.0**

FILE NAME:
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NOT USED

SCALE NONE 8

GENERAL NOTES

- ALL WORK SHALL BE DONE IN STRICT ACCORD WITH THE 2008 NATIONAL ELECTRICAL CODE (NEC) AS ADOPTED BY THE STATE OF CALIFORNIA AND ALL OTHER APPLICABLE STATE AND LOCAL CODES APPLYING TO THE PROPOSED CONSTRUCTION.
- NOTHING ON THE DESIGN DRAWINGS AND SPECIFICATION SHALL BE INTERPRETED AS AUTHORITY TO VIOLATE ANY CODES OR REGULATIONS.
- THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTION REQUIREMENTS. AIR QUALITY CONTROL APPLICATION AND PERMITS ARE TO BE BY OWNER.
- THE CONTRACTOR SHALL FIELD VERIFY EXISTING SITE AND BUILDING CONDITIONS. SUBMITTAL OF BID INDICATES THAT CONTRACTOR IS AWARE OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT AND BUILDING PERMIT.
- ELECTRICAL EQUIPMENT AND MATERIAL TO BE LISTED, LABELED, AND INSTALLED AS PER UNDERWRITERS LABORATORIES, OR EQUAL. ALL MATERIAL AND EQUIPMENT SHALL BE DELIVERED TO THE SITE NEW, BEARING APPROVAL BY U.L., NEMA OR OTHER APPROPRIATE AGENCY.
- THE CONTRACTOR SHALL PROVIDE A COMPLETE AND FUNCTIONING ELECTRICAL SYSTEM MEETING THE CRITERIA HEREIN AND THE INTENT OF THESE PLANS AND SPECIFICATIONS.
- ELECTRICAL LAYOUT DRAWINGS ARE DIAGRAMMATIC. INSTALL THE ELECTRICAL SYSTEMS WITHOUT INTERFERING WITH DUCTS, PIPES, STRUCTURAL STEEL OR OTHER SYSTEMS.
- REFER TO MECHANICAL DRAWINGS FOR EXACT EQUIPMENT AND CONTROL LOCATIONS AND FOR CONTROL SCHEMATICS. ALL LOCATIONS TO BE VERIFIED BEFORE ROUGH-IN.
- ALL ELECTRICAL DEVICES, EQUIPMENT, CONDUITS, ETC. LOCATED OUTSIDE THE BUILDING ENVELOPE SHALL BE SUITABLE FOR THE USE INTENDED.
- ALL CONDUCTORS SHALL BE COPPER AND RATED 600 VOLTS. SIZES #10 AWG AND LARGER TO BE STRANDED AND #12 AND SMALLER SHALL BE SOLID. USE TYPE THHN, THWN, THW. USE TYPE SO FOR CORD CONNECTION TO EQUIPMENT, 600V HEAT-RESISTANT RUBBER INSULATED WITH NEOPRENE JACKET AND EXTRA FLEXIBLE, STRANDED WIRE.
- NON-METALLIC CABLE (ROMEX OR SIMILAR) TO BE USED TO THE FULLEST EXTENT ALLOWED BY CODE. RIGID SCH 40 PVC SHALL BE USED IN OR UNDER CONCRETE SLABS ON GRADE. WHERE EXPOSED TO WEATHER, AND TO MECHANICAL DAMAGE, USE EMT FLEXIBLE CONDUIT SHALL BE USED TO THE MAXIMUM EXTENT AS ALLOWED BY CODE FOR CONNECTIONS TO VIBRATING EQUIPMENT. USE NEOPRENE JACKETED FLEXIBLE CONDUIT AND FITTINGS WHERE EXPOSED TO WEATHER. MC CABLE MAY NOT BE USED.
- ALL MOTORS, A/C UNITS, COMPRESSORS AND METAL HOUSINGS SHALL BE GROUNDED WITH GREEN GROUND WIRES SIZED AND INSTALLED ACCORDING TO CODES. ALL FEEDERS RUN IN NONMETALLIC CONDUITS SHALL HAVE GROUND CONDUCTOR RUN WITH CURRENT CAPACITY CONDUCTOR SIZED IN ACCORD WITH APPLICABLE CODES. THE CONTRACTOR SHALL MAINTAIN UNIFORMITY AND CONTINUITY OF THE GROUNDING SYSTEM. ALL CONDUITS MUST HAVE AN EQUIPMENT GROUND INSTALLED IN THE CONDUIT. THE CONDUIT CAN NOT BE USED FOR AS THE GROUND PATH.
- DUPLX RECEPTACLES TO BE RATED AT 15 AMPS, NEMA CONFIGURATION 5-15 R, 3 WIRE GND TYPE. COLOR SHALL BE BUILDING STANDARD.
- SWITCHES SHALL BE RATED 20 AMPS - 120/277 VOLTS UNLESS OTHERWISE NOTED. COLOR SHALL BE BUILDING STANDARD.
- ALL CIRCUIT BREAKERS USED FOR SWITCHING FLUORESCENT LIGHT FIXTURES SHALL BE APPROVED FOR THAT PURPOSE AND MARKED "SWD".
- ALL CONDUIT PENETRATIONS THROUGH FIRE RATED FLOOR SLABS AND WALLS SHALL BE SEALED AGAINST THE SPREAD OF FIRE OR SMOKE WITH APPROVED CABLE & CONDUIT FIRESTOPS OR FIRE RESISTANT SEALANT TO GIVE THE EQUIVALENT FIRE RATING.
- ALL WIRING DESIGN IS BASED ON 75 DEGREES C CONDITIONS.
- PROVIDE SEPARATE GROUND WIRE IN ALL FLEX, MC CABLE, AND NONMETALLIC CONDUITS.
- ALL EQUIPMENT TO BE SIEMENS OR EQUAL AND ALL WILL BE THE SAME MANUFACTURER. ALL PANELS SHALL BE PANEL BOARD TYPE WITH BOLT-ON CIRCUIT BREAKERS.
- RELEVANT SUBCONTRACTOR SHALL BECOME FAMILIAR WITH ALL ELEMENTS OF THE CONSTRUCTION DRAWINGS. ANY ERRORS, OMISSIONS OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF OWNER REPRESENTATIVE UPON BID SUBMISSION AND PRIOR TO ANY WORK. IF CONTRACTOR FAILS TO DO THIS THEN CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR SUCH ERRORS, OMISSIONS AND DISCREPANCIES.
- ALL JUNCTIONS BOXES AND MECHANICAL EQUIPMENT REQUIRING ACCESS FOR SERVICE SHALL BE LOCATED OVER ACOUSTICAL CEILING. NO ACCESS HATCHES SHALL BE INSTALLED IN THE GYPSUM BOARD CEILING WITHOUT PRIOR APPROVAL BY THE OWNER.
- CONDUIT ABOVE CEILING MUST BE A MINIMUM OF 12" ABOVE THE CEILING GRID.
- MOUNT LIGHT SENSORS OR SWITCHES WITHIN 12" OF EDGE OF DOOR SWING & MAINTAIN CONSISTENT DIMENSION THROUGHOUT.
- "OR EQUAL" MEANS EQUIVALENT OR SUPERIOR IN PERFORMANCE, MATERIALS, WORKMANSHIP AND APPEARANCE TO THOSE SPECIFIED.

ABBREVIATIONS

A/C	AIR CONDITIONER	MTB	MAIN TELEPHONE BOARD
ARCH	ARCHITECTURAL	(N)	NEW DEVICE
CO	CONDUIT ONLY	NIC	NOT IN CONTRACT
CKT	CIRCUIT	NTS	NOT TO SCALE
DISC	DISCONNECT	PB	PULL BOX
DWGS	DRAWINGS	PNL	PANEL
(E)	EXISTING DEVICE	(R)	RELOCATED FROM ANOTHER LOCATION
EF	EXHAUST FAN	(RE)	REMOVE EXISTING AND RELOCATE TO NEW LOCATION
FLA	FULL LOAD AMPERES	REC	RECEPTACLE
GALV	GALVANIZED	SC	SEPARATE CIRCUIT
GND	GROUND	SW	SWITCH
GFI	GROUND FAULT INTERRUPTER	T/C	
LTG	LIGHTING		

SYMBOLS

	C.O. CONDUIT RUN IN WALL OR CEILING.		T.V. CABLE.
	CONDUIT HOME RUN TO PANEL "A", CIRCUITS 1 & 3.		JUNCTION BOX, SIZE AS REQUIRED.
	1/2" CONDUIT 2#12 THHN, CU OR AS NOTED		THERMOSTAT, TO BE MOUNTED AT 60" AFF WIRE INSTALLATION & CONNECTION BY MECHANICAL CONTRACTOR CONDUIT, J-BOX & CONDUIT CONNECTION BY ELECT. CONTRACTOR
	1/2" CONDUIT 3#12 THHN, CU OR AS NOTED.		FUSED DISCONNECT SWITCH. SIZE FUSE PER MANUFACTURER'S NAMEPLATE.
	1/2" CONDUIT 4#12 THHN, CU OR AS NOTED.		EXHAUST FAN.
	1/2" CONDUIT 5#12 THHN, CU OR AS NOTED.		GARBAGE DISP.
	1/2" CONDUIT 6#12 THHN, CU OR AS NOTED.		COMBINATION SMOKE/CARBON MONOXIDE ALARM.
	1/2" CONDUIT 7#12 THHN, CU OR AS NOTED.		DATA (2 JACKS) +15" OR AS NOTED WITH 3/4" CONDUIT STUB UP TO ACCESSIBLE CEILING SPACE.
	DEDICATED DUPLEX CONVENIENCE RECEPTACLE 20 A, 125 V, 3 WIRE GROUND TYPE +15" OR AS NOTED.		TELEPHONE (2 JACKS) & DATA (2 JACKS) TO SHARE SAME BOX/ FACE PLATE UP TO ACCESSIBLE CEILING SPACE +15" OR AS NOTED.
	DUPLEX CONVENIENCE OUTLET 20 A, 125 V, 3 WIRE GROUND TYPE +15" OR AS NOTED.		TELEPHONE OUTLET (2 JACKS) +15" OR AS NOTED WITH 3/4" CONDUIT STUB UP TO ACCESSIBLE CEILING SPACE.
	SPLIT WIRED DUPLEX (HALF-HOT/HALF-SWITCHED) OUTLET.		FLOOR MOUNTED JUNCTION BOX, TELE/DATA. VERIFY CONDUIT SIZE FOR DATA/TELE. REQUIREMENTS. COORDINATE LOCATION W/ TENANT AND FURNITURE CONTRACTOR REQUIREMENTS.
	DOUBLE WIRED DUPLEX (HALF-HOT/HALF-SWITCHED) OUTLET.		SINGLE POLE TOGGLE SWITCH +46" OR AS NOTED.
	DOUBLE DUPLEX OUTLET, AS ABOVE, +15" OR AS NOTED.		BI-LEVEL SWITCHING PER TITLE 24. +46" OR AS NOTED.
	30A-208V 1Ø, 3 WIRE LOCKING RECEPTACLE NEMA L6-3ØR		3 WAY SWITCH. +46" OR AS NOTED.
	GROUND FAULT INTERRUPTING TYPE RECEPTACLE. +42" OR AS NOTED.		4 WAY SWITCH. +46" OR AS NOTED.
	CEILING MOUNT DUPLEX OUTLET-20A, 125V, 3 WIRE GROUND TYPE.		20A, 2P, 2ØB. MOTOR RATED MANUAL DISCONNECT SWITCH WITH PROPER SIZED OVERLOADS FOR MOTOR PROTECTION.
	RELAY AT ACCESSIBLE CEILING. REFER TO PLAN VIEWS FOR AMPACITY.		2 HOUR SPRING WOUND TIME SWITCH.
	PHOTOCELL SENSOR		START/STOP SWITCH
	WIRELESS (RF) SIGNAL IN		DIMMER SWITCH
	WIRELESS (RF) SIGNAL OUT		AUTOMATIC WALL SWITCH
	CAT 5e		CEILING MOUNT OCCUPANCY SENSOR
	TWISTED PAIR DIMMING LEADS ENCLOSURE.		NEW WALL MOUNT MOTION SENSOR WITH SWITCH OVERRIDE
	UTILITY METER & CURRENT TRANSFORMER.		ELECTRICAL PANEL, FLUSH MOUNTED.
	DISCONNECT SWITCH.		ELECTRICAL PANEL, SURFACE MOUNTED.
	TRANSFORMER.		MAIN ELECTRICAL SWITCHBOARD AND/OR METER GROUP.
	GROUND.		MAIN TELEPHONE BACKBOARD
	UTILITY LUG LANDING.		DETAIL REFERENCE SYMBOL
	CURRENT TRANSFORMER.		INDICATES SEPARATE CIRCUIT
	CIRCUIT BREAKER.		RELOCATE EXISTING
	GROUND FAULT EQUIPMENT PROTECTION.		REMOVE EXISTING
	PANELBOARD.		EXISTING
			NEW

SCOPE OF WORK

INTERIOR BRANCH CIRCUIT ALTERATIONS. TITLE 24 LIGHTING COMPLIANCE ONLY.

ELECTRICAL SHEET INDEX	
SHEET	DESCRIPTION
E-0.1	NOTES & SYMBOLS
E-0.4	PANEL SCHEDULE
E-1.0	POWER PLAN
E-2.0	LIGHTING PLAN
E-3.0	PHOTOMETRIC
E-6.0	CUT SHEETS
E-6.1	CUT SHEETS
E-6.2	CUT SHEETS
E-7.0	TITLE 24
E-7.1	TITLE 24
E-7.2	TITLE 24

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PROJECT NO.
16-068



REV	DESCRIPTION	DATE
-	PLAN CHECK	11-07-2016

PROJECT NO.: 16-068

DATE: 2016-11-07

SCALE: AS SHOWN

DRAWN BY: NA

PROJECT NAME: PROJECT NAME

DESCRIPTION:

NOTES & SYMBOLS

SHEET NUMBER:

E-0.1

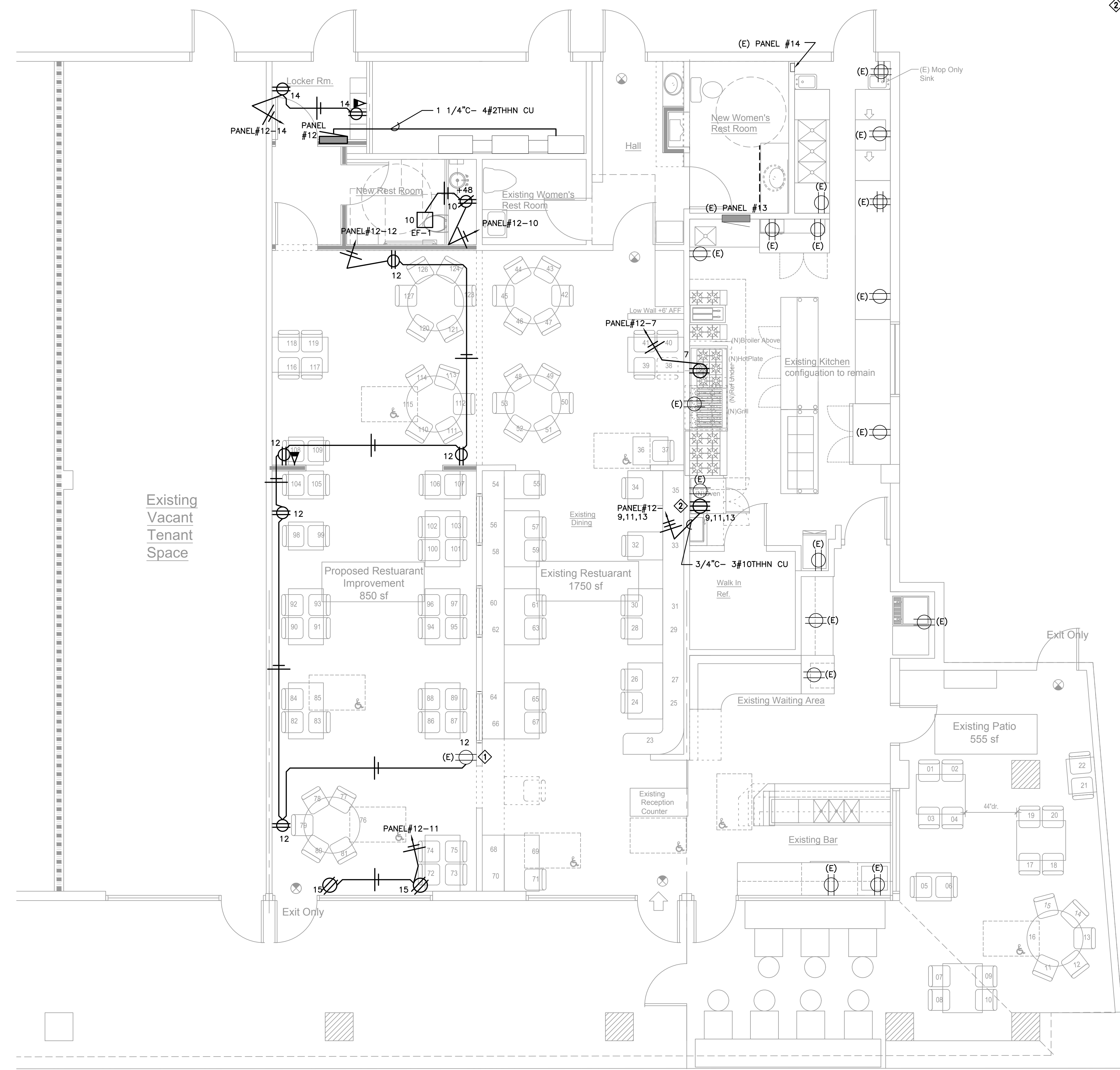
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**SHEET
REFERENCED NOTES**

- ① REWIRE EXISTING RECEPTACLE TO BE FED FROM NEW CIRCUIT #12.
- ② NEMA TWIST-LOCK L15-30 CONFIGURATION

ITEMS MARKED (N) OR SHOWN DARK ARE NEW. ITEMS SHOWN LIGHTS OR MARKED (E) ARE EXISTING.



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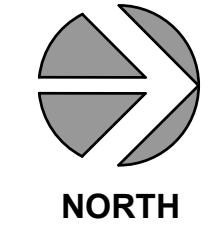


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PROJECT NO.: 16-068
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SCALE: AS SHOWN
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DESCRIPTION:
POWER PLAN

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



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PROJECT NO.
16-068



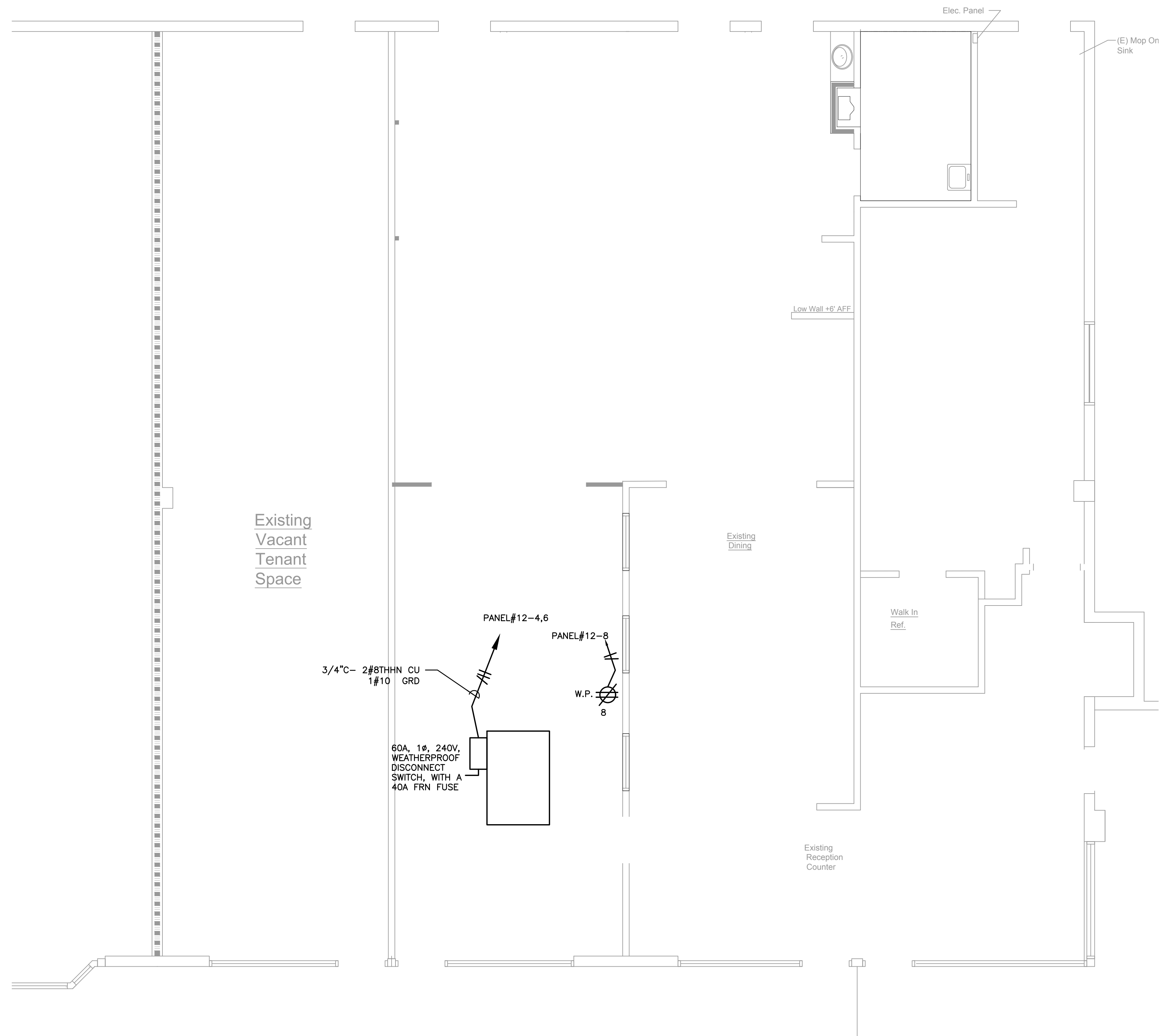
REV	DESCRIPTION	DATE
-	PLAN CHECK	10-28-2016

PROJECT NO.: 16-068
DATE: 2016-10-28
SCALE: AS SHOWN
DRAWN BY: NA
PROJECT NAME: PROJECT NAME

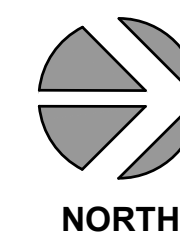
DESCRIPTION:
POWER PLAN

SHEET NUMBER:
E-1.1

FILE NAME:
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1 ROOF PLAN
SCALE : 1/4" = 1'-0"



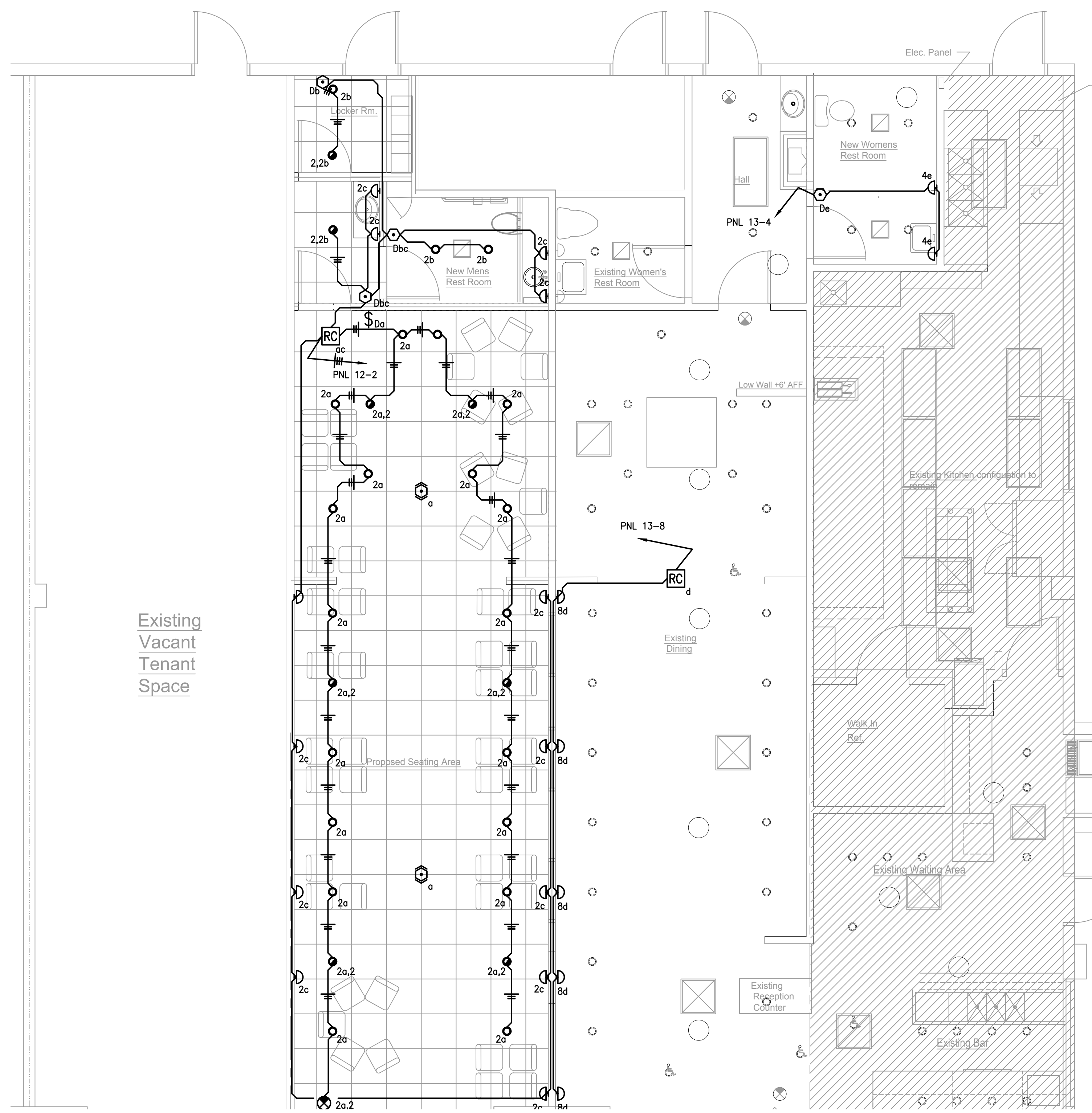
CLIENT:
CATHERINE MCKENNA

21020 VICTORY BLVD.
WOODLAND HILLS,
CA 91367

PROJECT:
CAFE BIZOU

30315 CANWOOD ST. #14
AGOURA HILLS, CA 91301

PROJECT NO.
16-068



OUTSIDE LIGHTING FIXTURE SCHEDULE					
LUMINAIRE INFORMATION			LAMP INFORMATION		MISCELLANEOUS INFORMATION
TAG	SYMBOL	MANUFACTURER CATALOG # AND EQUAL PRODUCT INFO	WATTS VOLTS	MANUFACTURER, QUANTITY, CATALOG # AND EQUAL	NOTES
LF-1		EATON HALO LED H4 EL406930 HOUSING	13 120-277	LED	4" LED RECESSED HOUSING FIXTURE. DIMMABLE.
LF-2		WAC LIGHTING R375002	16 120-277	LED	WALL MOUNTED SCONCE FIXTURE.

CONTROL SCHEDULE				
SYMBOL	TYPE	MANUFACTURER CATALOG # AND EQUAL PRODUCT INFO	CONNECTIVITY	NOTES
	CEILING OCCUPANCY SENSOR	WATTSTOPPER LMDc-100	DIGITAL (CAT5e)	AUTOMATIC CONTROL IN RESPONSE TO OCCUPANCY
	DIMMER STATION	WATTSTOPPER LMDM-101	DIGITAL (CAT5e)	MANUAL MULTI-LEVEL CONTROL AND MANUAL ON-OFF
	WALLBOX OCCUPANCY SENSOR WSWITCH	WATTSTOPPER LMDW-100	DIGITAL (CAT5e)	AUTOMATIC CONTROL IN RESPONSE TO OCCUPANCY WITH MANUAL ON-OFF
	ROOM CONTROLLER, DIMMING	WATTSTOPPER LMRC-220	DIGITAL (CAT5e)	UNIVERSAL DIMMING MULTI-ZONE ROOM CONTROLLER FOR INPUT OF SENSORS. CAT 5e CONNECTIONS BETWEEN WATTSTOPPER DEVICES. DIMMING LEADS TO DIMMABLE FIXTURES, AND LINE VOLTAGE POWER INPUT, SWITCHED LINE VOLTAGE OUTPUT

ROOM NUM./ NAME	SQ. FT.
VESTIBULE	38
LAVATORY	34
RESTROOM	56
WOMENS RESTROOM	77
DINING RESTAURANT 12	667
DINING RESTAURANT 13	667
Grand Total	1539

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

REV	DESCRIPTION	DATE
-	PLAN CHECK	11-07-2016

PROJECT NO.: 16-068
DATE: 2016-11-07
SCALE: AS SHOWN
DRAWN BY: NA
PROJECT NAME: PROJECT NAME

DESCRIPTION:
LIGHTING PLAN

SHEET NUMBER:
E-2.0

FILE NAME:
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CLIENT:
CATHERINE MCKENNA

21020 VICTORY BLVD.
WOODLAND HILLS,
CA 91367

PROJECT:
CAFE BIZOU

30315 CANWOOD ST. #14
AGOURA HILLS, CA 91301

PROJECT NO.
16-068

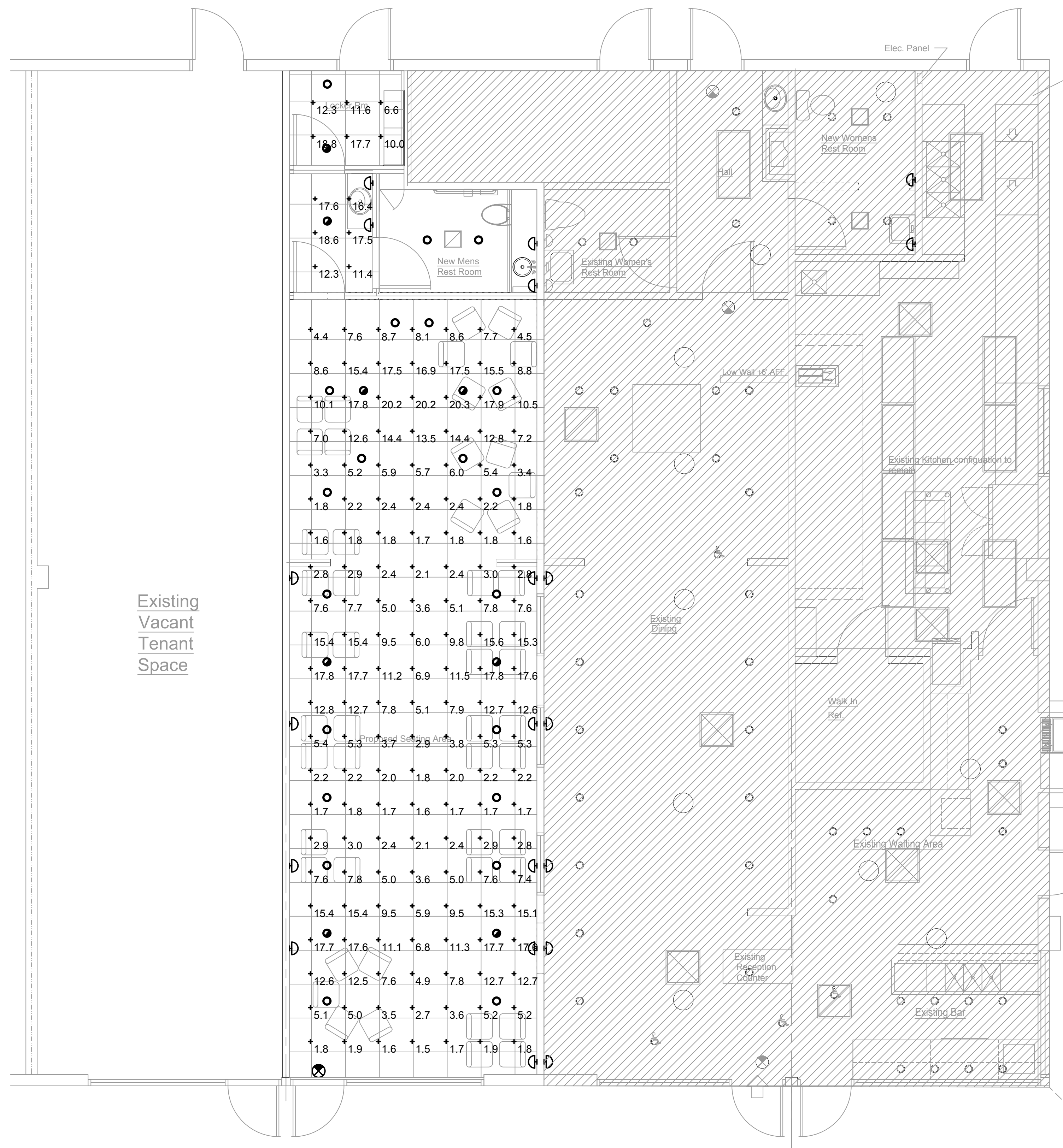


REV	DESCRIPTION	DATE
-	PLAN CHECK	11-07-2016

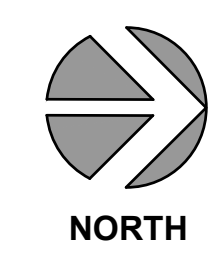
PROJECT NO.: 16-068
DATE: 2016-11-07
SCALE: AS SHOWN
DRAWN BY: NA
PROJECT NAME: PROJECT NAME

DESCRIPTION:
PHOTOMETRIC

SHEET NUMBER: **E-3.0**
FILE NAME:
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Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Dining Restaurant	+	7.5 fc	20.3 fc	1.5 fc	13.5:1	5.0:1
Lavatory	+	15.6 fc	18.6 fc	11.4 fc	1.6:1	1.4:1
Vestibule	+	12.8 fc	18.8 fc	6.6 fc	2.8:1	1.9:1



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

HALO LED H4 Series - 2nd Generation
 The Halo H4 LED is a family of 4" aperture recessed downlight H4S7 series of housings designed for exclusive use with Halo EL406, ELG406, ELSG406 Series LED Light Engines and compatible 4" TL4 and TLS4 LED trims. Halo H4 LED housings have integral LED drivers that offer dimming as a standard feature. This is an insulated ceiling* AIR-TITE™ housing offering 120 volt dimming capability. The H4 LED series offers high quality down-lighting along with high efficacy – the result being great lighting and significant energy savings.

DESIGN FEATURES

MECHANICAL

- Housings**
 - Enclosure of formed aluminum construction.
 - Openings are gasketed AIR-TITE.
 - Designed for insulated ceilings in direct contact with insulation.* (May also be installed in non-insulated ceilings.)
- Plaster Frame**
 - Galvanized steel die-formed construction.
 - The collar can be removed from plaster frame to provide access to the junction box.
 - Collar adjusts for ceilings up to 1-1/2" thick.
 - Plaster frame features include:
 - Patented regressed locking screw positioned for securing hanger bars from below the ceiling.
 - Cutsouts for easily crimping hanger bars in position.
 - AIR-TITE aperture gasket is pre-installed.
 - HALO identify embossed on plaster frame.

Bar Hangers

- Pre-installed nail easily installs in regular lumber, engineered lumber and laminated beams.
- Safety and guidance system prevents snagging, ensures smooth straight nail penetration and allows bar hangers to be easily removed if necessary.
- Automatic leveling flange aligns the housing and sets you hold the housing in place with one hand while driving nails.
- Housing can be positioned at any point within 24" jost span.
- Pass-N-Thru™ feature allows bar hangers to be shortened without removing from plaster frame.
- Score lines allow "toolless" shortening for 12" joists.
- Bar hangers may be repositioned 90°.
- Integral T-bar clip snaps onto T-bars - no additional clips required.

COOPER Lighting
 www.cooperlighting.com

Catalog #	Type
Project	
Comments	Date
Prepared by	

Slide-N-Side™ Junction Box

- Positioned to accommodate straight conduit runs
- Seven 1/2" trade size conduit knockouts with true pry-out slots
- Slide-N-Side™ wire traps allow non-metallic sheathed cable to be installed without tools and without removing knockouts.
- Accepts a wide range of non-metallic (type NM) sheathed cables - the standard cable types used in lighting in both U.S. and Canada.
- Allows wiring connections to be made outside the junction box
- Simply insert the cable directly into the trap after connections are made.
- Accommodates the following standard non-metallic sheathed cable sizes: (US) #14/2, #14/3, #12/2, #12/3 (Canada) #14/2, #14/3, #12/2

Warranty

Cooper Lighting provides a five year limited warranty on Halo LED Luminaires which includes the LED Recessed Housing, LED Light Engine, and LED trims.

Labels

- UL/ULC Listed 1598 Luminaire
- UL/ULC Listed for Damp Location
- UL/ULC Listed for Wet Location, covered ceiling - with select trims
- UL/ULC listed for Direct Contact with insulation and combustible material*

Qualifications

- Use with designated LED light engines and trims for ENERGY STAR® qualification.**
- Can be used for State of California Title 24 high efficacy luminaire compliance†
- Can be used for Washington State Energy Code (WSEC) and International Energy Conservation Code (IECC) high efficacy luminaire compliance

IC and AIR-TITE™

- Certified under ASTM E283 and listed UL/ULC 1598. May be used to meet insulated ceiling and restricted air-flow requirements such as:
 - Washington State Energy Code (WSEC)
 - International Energy Conservation Code (IECC)
 - New York State Energy Conservation Construction Code (NY-ECCC)
 - State of California Title 24 "Recessed Luminaires in Insulated Ceilings."
- Driver is specifically designed for compatibility with EL406 LED Light Engines, and ELG406, ELSG406 Adjustable Gimmel Light Engine / Trims.
- If dimming is not required the fixture can be operated from a standard wall switch.

*Not for use with housings in direct contact with spray foam insulation.
 **Refer to ENERGY STAR® Qualified Products List and CEC (T24) Appliance Database for listings.

HALO®



H457ICAT1E

4-Inch LED Recessed Housing New Construction Insulated Ceiling

High Efficacy LED Housing-Dimmable

FOR USE IN INSULATED CEILING FOR DIRECT CONTACT WITH INSULATION*

ALSO SUITABLE FOR NON-IC APPLICATIONS

H4 Series LED Energy Data -

(Values at non-dimming line voltage) Minimum Starting Temp: -30°C (-22°F)

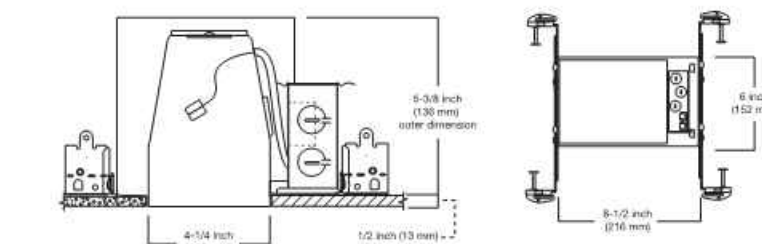
EMER/ FCC Title 47 CFR Part 18 (Consumer)	Sound Rating: Class A standards
Input Voltage: 120V	Power Factor: >0.90
Input Frequency: 50/60Hz	THD: <2%
Input Power: 1.5W	Input Current: 121mA
Driver Compliance: UL6050, IFS rated	Maximum IC Protected Ceiling Ambient Continuous Operating Room Temperature: 25°C (77°F)
Maximum Non-IC Non-Insulated Ceiling Ambient Continuous Operating Room Temperature: 40°C (104°F)	



ADV131740
 December 16, 2013 10:26 AM

HALO®

DIMENSIONS



ORDERING INFORMATION - H4 LED Downlights

SAMPLE NUMBER: H457ICAT1E - ELG406Z7 - TL4150C. Complete unit includes LED housing, light engine and trim, ordered separately.

H4 LED Housing		H4 LED Light Engine			
H4S7	ICAT	EL406	CR1	CCT	
H4S7 = 4" housing H4 LED series downlight, 2nd Generation	ICAT = New Construction Insulated Ceiling, AIR-TITE	EL406 = 4" LED driver, 120V, 50/60 Hz, dimmable, LEDTTE phase control dimmers refer to dimmer manufacturer.	CR1 = 90 CRI	27 = 2700K 30 = 3000K 35 = 3500K 40 = 4000K	

Trim Options		Accessories	
TL4105C = Specular Clear Reflector, Diffuse Polymer Dome Lens, White Ring, Shower Rated	TL4027BZ = Tuscan Bronze Reflector, Solite® Glass Lens, and Tuscan Bronze Ring, Shower Rated	Thin Profile Designer Trim Rings For use with Round TL 4" trim, not compatible with Square TL 5.5" trim, or adjustable gimbals (E.G. ELG406 trim)	TRM400WH = White Ring, Shower Rated
TL4110H = Haze Reflector, Diffuse Polymer Dome Lens, White Ring, Shower Rated	TL4025BK = Specular Black Reflector, Solite® Glass Lens, and White Ring, Shower Rated	TRM400WB = Black Ring, Shower Rated	TRM400SN = Satin Nickel Ring, Shower Rated
TL4109W = White Reflector, Diffuse Polymer Dome Lens, White Ring, Shower Rated	TL4030BS = Black Baffle, Solite® Glass Lens, and White Ring, Shower Rated	TRM400PC = Polished Chrome Ring, Shower Rated	
TL4105S = Satin Nickel Reflector, Diffuse Polymer Dome Lens, Satin Nickel Ring, Shower Rated	TL4040WB = Square Baffle Trim, Solite® Glass Lens, White Ring with White Baffle, Shower Rated		
TL4107TZ = Tuscan Bronze Reflector, Diffuse Polymer Dome Lens, Tuscan Bronze Ring, Shower Rated	TL4050WB = Square Baffle Trim, Solite® Glass Lens, White Ring with Black Baffle, Shower Rated		
TL4105R = Specular Black Reflector, Diffuse Polymer Dome Lens, White Ring, Shower Rated	TL4050NB = Square Baffle Trim, Solite® Glass Lens, Satin Nickel Ring with Black Baffle, Shower Rated		
TL4119B = White Baffle, Diffuse Polymer Dome Lens, White Ring, Shower Rated	TL4050TB = Square Baffle Trim, Solite® Glass Lens, Tuscan Bronze Ring with Black Baffle, Shower Rated		
TL4118B = Black Baffle, Diffuse Polymer Dome Lens, White Ring, Shower Rated	TL4099W = Wall Wash, Semi-Specular Clear Reflector with White Ring, Shower Rated		
TL4025CS = Specular Clear Reflector, Solite® Glass Lens, and White Ring, Shower Rated	TL4099WB = Wall Wash, Semi-Specular Clear Reflector with White Ring, Shower Rated		
TL4029H = Haze Reflector, Solite® Glass Lens, and White Ring, Shower Rated	TL4225P = Polymer "Deep Front" White Baffle & Regressed Lens, White Ring, Shower Rated		
TL4029S = Satin Nickel Reflector, Solite® Glass Lens, and Satin Nickel Ring, Shower Rated			

ORDERING INFORMATION - H4 LED Adjustable Gimbals

SAMPLE NUMBER: H457ICAT1E - ELG406Z0WH. Complete unit includes LED housing, light engine and trim, ordered separately.

H4 LED Light Engine		Optional Accessory Reflector Kit		Optional Len Media	
CR1	CCT	Finish	Reflector	Media	Media
ELG406 = Round LED Adjustable Gimmel Light Engine - 2nd Generation	9 = 90 CRI 27 = 2700K 30 = 3000K 35 = 3500K 40 = 4000K	WH = White SN = Satin Nickel TBZ = Tuscan Bronze	TL4129K includes: • 35° reflector (one is included with gimbal) • 25° reflector • 50° reflector TL4129K is for use with ELG406 and ELG406 gimbals only.	One lens media may be used in place of clear lens. Optical Lenses • L110 Diffuse Standard Beveled Lens • L111 Soft Focus Textured Lens • L113 Prismatic Lens • L115 Linear Spread Lens	Dichroic Color Filters • L114 UV Filter • L120 Red • L121 Amber • L122 Yellow • L123 Green • L124 Daylight • L125 Blue • L127 Cosmetic Color Filters • L130 Yellow

Solite® is a registered trademark of AGC Flat Glass North America

Note: Specifications and Dimensions subject to change without notice. Visit our web site at www.cooperlighting.com

Customer First Center 1121 Highway 74 South Peachtree City, GA 30269 770-485-4800 FAX 770-485-4801
 Cooper Lighting 5925 McLaughlin Rd. Mississauga, Ontario, Canada L4R 1B8 905-807-4800 FAX 905-868-7948

COOPER Lighting
 www.cooperlighting.com

Elemental dweLED Wall Sconce

By WAC Lighting

LUMENS
 LIGHTING
 Call Us 877.445.4486

Product Options

Finish: Brushed Nickel, Chrome

Details

- Rectangular wall plate

Dimensions

Fixture: Height 13.5", Width 4.5", Depth 3.5"

Lighting

- One 15.5 Watt 120 Volt LED array (integrated).

Additional Details

Product URL:

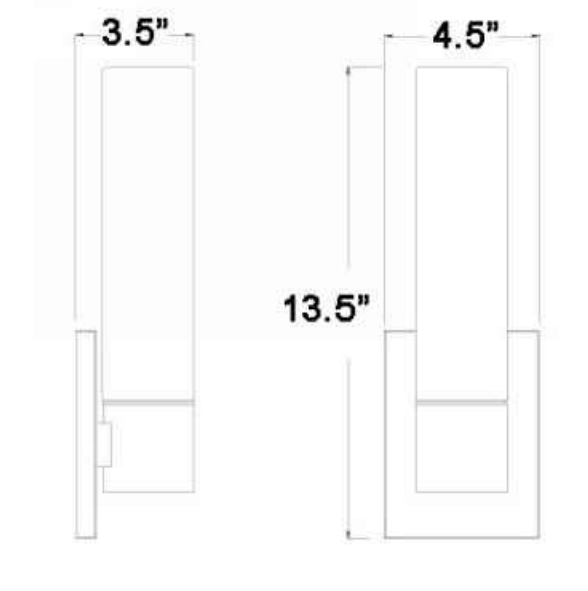
http://www.lumens.com/elemental-dweled-wall-sconce-by-wac-lighting-uu572

062.html

Rating: ETL Listed Wet



Shown in Brushed Nickel finish



Notes:

Product ID: uu572062

Prepared by:

Prepared for:

Project:

Room:

Placement:

Approval:



Created October 25th, 2016

CLIENT:
CATHERINE MCKENNA

21020 VICTORY BLVD.
 WOODLAND HILLS,
 CA 91367

PROJECT:
CAFE BIZOU

30315 CANWOOD ST. #14
 AGOURA HILLS, CA 91301

PROJECT NO.

16-068



9401 RESEDA BLVD. SUITE 200
 NORTH RIDGE, CA 91324
 PHONE: (818) 886-2190 FAX: (818) 886-2131



REV	DESCRIPTION	DATE
-	PLAN CHECK	11-07-2016

PROJECT NO.: 16-068
 DATE: 2016-11-07
 SCALE: AS SHOWN
 DRAWN BY: NA
 PROJECT NAME: PROJECT NAME

DESCRIPTION:

CUT SHEETS

SHEET NUMBER:

E-6.0

FILE NAME:

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A. General Information	
Climate Zone: 9	Conditioned Floor Area: 1,539
Building Type: <input checked="" type="checkbox"/> Nonresidential	Unconditioned Floor Area: 0
<input type="checkbox"/> Schools	<input type="checkbox"/> High-Rise Residential
<input type="checkbox"/> Relocatable Public Schools	<input type="checkbox"/> Hotel/Motel
<input type="checkbox"/> Conditioned Spaces	<input type="checkbox"/> Unconditioned Spaces
Phase of Construction: <input type="checkbox"/> New Construction	<input type="checkbox"/> Addition
<input type="checkbox"/> Alteration	<input type="checkbox"/> Tailored
Method of Compliance: <input type="checkbox"/> Complete Building	<input type="checkbox"/> Area Category
<input type="checkbox"/> Tailored	
Project Address: 30315 Canwood St. #14	

B. Lighting Compliance Documents (select yes for each document included)			
YES	NO	FORM	TITLE
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-01-E	Certificate of Compliance. All Pages required on plans for all submittals.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-03-E	Indoor Lighting Power Allowance
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-04-E	Tailored Method Worksheets
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-05-E	Line Voltage Track Lighting Worksheets

C. Summary of Allowed Lighting Power	
Conditioned and Unconditioned space Lighting must not be combined for compliance	
Indoor Lighting Power for Conditioned Spaces	
1.	Installed Lighting NRCC-LTI-01-E, page 4 + 1,048
2.	PORTABLE ONLY FOR OFFICES NRCC-LTI-01-E, page 3 + 0
3.	Minus Lighting Control Credits NRCC-LTI-02-E, page 2 - 0
4.	Adjusted Installed Lighting Power (row 1 plus row 2 minus row 3) = 1,048
5.	Complies ONLY if Installed ≤ Allowed
6.	Allowed Lighting Power Conditioned NRCC-LTI-03-E, page 1 1,590
Indoor Lighting Power for Unconditioned Spaces	
Installed Lighting NRCC-LTI-02-E, page 2 + 0	
Minus Lighting Control Credits NRCC-LTI-02-E, page 2 - 0	
Adjusted Installed Lighting Power (row 1 minus row 3) = 0	
Complies ONLY if Installed ≤ Allowed	
Allowed Lighting Power Unconditioned NRCC-LTI-03-E, page 1 0	

D. Declaration of Required Installation Certificates			
Declare by selecting yes for all Installation Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)			
YES	NO	Form/Title	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-01-E - Must be submitted for all buildings	<input type="checkbox"/> Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	<input type="checkbox"/> Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.	<input type="checkbox"/> Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	<input type="checkbox"/> Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	<input type="checkbox"/> Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	<input type="checkbox"/> Field Inspector

E. Declaration of Required Certificates of Acceptance			
Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)			
YES	NO	Form/Title	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	<input type="checkbox"/> Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	<input type="checkbox"/> Field Inspector
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	<input type="checkbox"/> Field Inspector

A separate Lighting Schedule Must be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
 CONDITIONED SPACE UNCONDITIONED SPACE

F. Indoor Lighting Schedule and Field Inspection Energy Checklist	
<input type="checkbox"/> The actual indoor lighting power listed on this page and on the next page includes all installed permanent and planned portable lighting systems. <input type="checkbox"/> When Complete Building Method is used for compliance, list each different type of luminaire on separate lines. <input type="checkbox"/> When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines. <input type="checkbox"/> Also include track lighting in schedule, and submit the track lighting compliance form (NRCC-LTI-05-E) when line-voltage track lighting is installed.	

G. Installed Portable Luminaires in Offices - Exception to Section 140.6(a)			
<input type="checkbox"/> This section shall be filled out ONLY for portable luminaires in offices (As defined in §100.1). All other planned portable luminaires shall be documented on next page of this compliance form. <input type="checkbox"/> This section is used to determine if greater than 0.3 watts of portable lighting is planned for any office. <input type="checkbox"/> Fill out a separate line for each different office. Small offices that are typical (having the same general and portable lighting) may be grouped together. This allowance shall not be traded between offices having different lighting systems.			
Office Portable Luminaire Schedule	Office Installed Portable Luminaire Watts Per Square Foot	Office Location	Field Inspector
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
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97	98	99	100
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117	118	119	120
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225	226	227	228
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237	238	239	240
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265	266	267	268
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273	274	275	276
277	278	279	280
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285	286	287	288
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541	542	543	544
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SYMBOLS/ABBREVIATIONS/DEFINITIONS

SYMBOL	ABBREV.	DEFINITION
////	DEMO	DEMOLISH
---ICW	ICW	INDUSTRIAL COLD WATER
---CW	CW	COLD WATER
---HW	HW	HOT WATER
---140'	140'HW	140' HOT WATER
---160'	160'HW	160' HOT WATER
---HWR	HWR	HOT WATER RETURN
---S (OR) W	S (OR) W	SEWER OR WASTE ABOVE GRADE
---S (OR) W	S (OR) W	SEWER OR WASTE BELOW GRADE
---GW	GW	GREASE WASTE
---V	V	VENT
---SD	SD	STORM DRAIN ABOVE GRADE
---SD	SD	STORM DRAIN BELOW GRADE
---G	G	GAS - LOW PRESSURE
---MG	MG	GAS - MEDIUM PRESSURE
---A	A	MEDICAL COMPRESSED AIR
---O ₂	O ₂	OXYGEN
---VAC	VAC	VACUUM
---F	F	FIRE PROTECTION SUPPLY
---CSP	CSP	COMBINATION STANDPIPE
---AS	AS	AUTOMATIC FIRE SPRINKLERS
---SPD	SPD	SUMP PUMP DISCHARGE
---SED	SED	SEWAGE EJECTOR DISCHARGE
---SCW	SCW	SOFT COLDWATER
---ICW	FOV	FUEL OIL VENT
---GV	GV	GATE VALVE
---GLV	GLV	GLOBE VALVE
---ANV	ANV	ANGLE VALVE
---CV	CV	SWING CHECK VALVE
---NCV	NCV	NON-SLAM CHECK VALVE
---BC	BC	BALANCING COCK
---PRV	PRV	PRESSURE REDUCING VALVE
---PTR	PTR	PRESSURE-TEMPERATURE RELIEF VALVE
---BFP	BFP	BACKFLOW PREVENTER
---GC	GC	GAS COCK, GAS STOP
---FHV	FHV	FIRE HOSE VALVE
---FHC	FHC	FIRE HOSE CABINET (SURFACE MOUNTED)
---FHC	FHC	FIRE HOSE CABINET (RECESSED)
---FS	FS	FLOW SWITCH
---PS	PS	PRESSURE SWITCH
---DN	DN	RISER DOWN
---R	R	RISER UP
---RI	RI	RISE OR DROP
---VIR	VIR	VALVE IN RISER
---WCO	WCO	WALL CLEANOUT
---CO	CO	CLEANOUT PLUG
---FCO,COTG	FCO,COTG	FOOR CLEANOUT, CLEANOUT TO GRADE
---CAP	CAP	CAP OR PLUG ON END OF PIPE
---HB	HB	HOSE BIBB
---WHA	WHA	WATER HAMMER ARRESTOR
---IE	IE	INVERT ELEVATION
---HDR	HDR	HEADER
---FU	FU	PLUMBING FIXTURE UNIT
---SPO	SPO	SOIL PLUGGED OUTLET
---VCO	VCO	VENT CAPPED OUTLET
---FPC	FPC	FIRE PROTECTION OUTLET

ABBREV/DEFINITIONS

ABBREV.	DEFINITION
ABV	ABOVE
AD	ACCESS DOOR
AP	ACCESS PANEL
ARCH	ARCHITECT
BEL	BELOW
BLDG	BUILDING
C	COLD AIR
CD	CONDENSATE DRAIN
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CLG	CEILING
CL	CENTER LINE
COMP	COMPRESSOR
CONC	CONCRETE
CONT	CONTINUATION
DET	DETAIL
DIA	DIAMETER
DN	DOWN
DR	DRAIN
DRWG	DRAWING
EL	ELEVATION
ENCL	ENCLOSURE
EXH	EXHAUST
EXIST	EXISTING
FD	FIRE DAMPER
FG	FLOOR GRILLE
FIN	FINISH
FLR	FLOOR
FPF	FINS PER FOOT
FS	ROOF SINK
GALV	GALVANIZED
GPM	GALLONS PER MINUTE
GR	GRADE
H	HOT AIR
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
MIN	MINIMUM
MECH	MECHANICAL
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
OPNG	OPENING
FA	FRESH AIR
PLBG	PLUMBING
POC	POINT OF CONNECTION
SCR	SCREEN
SM	SHEET METAL
TEMP	TEMPERATURE
TYP	TYPICAL
VD	VOLUME DAMPER
VTR	VENT THROUGH ROOF

GENERAL NOTES

- ALL WORK SHALL BE IN STRICT ACCORDANCE WITH ALL CALIFORNIA STATE, LOCAL CODES AND AUTHORITIES HAVING JURISDICTION.
- BEFORE STARTING ANY WORK, VERIFY THE ADEQUACY, LOCATION OF UTILITIES AT POINTS OF CONNECTION, SIZE AND AVAILABILITY OF ALL UTILITIES CONCERNED, INCLUDING SEWER INVERT ELEVATIONS AND WATER PRESSURE BEFORE START OF ANY WORK CONTRACTOR IS TO OBTAIN THE SERVICES OF A PIPE LOCATION COMPANY TO VERIFY ANY PIPE LOCATIONS FOR CONNECTIONS TO BE MADE BELOW.
- THE WORK FOR THIS PROJECT INVOLVES ADDITIONS TO AND ALTERATIONS OF THE EXISTING BUILDING TO ACHIEVE THE ARRANGEMENT INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL VISIT THE JOBSITE TO DETERMINE THE EXTENT OF WORK REQUIRED BY THE CONSTRUCTION ACTIVITIES. THE ARCHITECTURAL DRAWINGS FOR THESE AREAS SHOW THE CHANGES TO BE MADE. THE CONTRACTOR SHALL REVISE, REARRANGE, RE-ROUTE OR REMOVE EXISTING PIPING AS INDICATED TO ACCOMMODATE THE CHANGES AND ADDITION SHOWN TO PROVIDE CONTINUING SERVICE FOR THOSE EXISTING PORTIONS OF THE PROJECT WHICH ARE TO REMAIN IN OPERATIONS.
- ALL WORK THAT INVOLVES A SHUT-DOWN OF EXISTING BUILDING UTILITIES OR PORTIONS THEREOF, SHALL BE DONE AT SUCH TIMES AS WILL CAUSE THE LEAST INCONVENIENCE TO THE SCHOOL'S ACTIVITIES, OR AT THE APPROVAL OF THE ARCHITECT. THE EXACT TIME AND LENGTH OF SHUT-DOWN SHALL BE ARRANGED WITH THE ARCHITECT OR THE BUILDING ENGINEER AT LEAST SEVEN (7) DAYS BUT NOT MORE THAN THIRTY FIVE (35) DAYS IN ADVANCE OF THE REQUIRED SHUT-DOWN.
- DRAWINGS INDICATE SIZE AND TERMINATION OF PIPING AND SUGGEST PROPER ROUTES OF PIPING TO CONFORM THE STRUCTURE TO AVOID OBSTRUCTION AND TO PRESERVE CLEARANCE. IT IS NOT THE INTENTION TO INDICATE ALL NECESSARY OFFSETS AND IT SHALL BE THE RESPONSIBILITY UNDER THIS SECTION TO INSTALL PIPING IN SUCH A MANNER AS TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM, KEEP OPENINGS AND PASSAGEWAYS CLEAR AND MAKE ALL EQUIPMENT REQUIRING INSPECTION, MAINTENANCE AND REPAIR ACCESSIBLE WITH OUR FURTHER INSPECTIONS OR EXTRA COST.
- CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES FOR CLEARANCES AND WORK INCLUDED PRIOR TO START OF WORK.
- KEEP ALL PIPING CLEAR FROM LOAD BEARING FOOTINGS.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT PLUMBING FIXTURES AND EQUIPMENT LOCATIONS.
- ALL VENTS THRU ROOF SHALL BE MINIMUM OF THREE FEET VERTICALLY OR TEN FEET HORIZONTALLY FROM ANY FRESH AIR INTAKES.
- CLEANOUTS SHALL BE INSTALLED PER LATEST UPC CODE SECTIONS, IN ADDITION PROVIDE CLEANOUTS AT EACH WATER CLOSET AND EACH URINAL.
- PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL AS PRESCRIBED IN STATE FIRE MARSHAL STANDARD 43-1, AND SHALL BE U.L. LISTED.
- ALL FIXTURES SHALL BE PROTECTED DURING CONSTRUCTION FROM ANY DAMAGE. REFINISHED FIXTURES WILL NOT BE ACCEPTABLE UNDER ANY CONDITIONS.
- PROVIDE TRAP PRIMER CONNECTION AND TRAP PRIMER VALVES BEHIND ACCESS PANEL FOR ALL FLOOR DRAINS AND FLOOR SINKS.
- DRAWINGS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CODE REQUIREMENTS.
- ALL PLUMBING FIXTURES AND EQUIPMENT SHALL HAVE ISOLATING VALVES ON WATER SUPPLY LINES.
- PROVIDE ACCESS DOORS TO ALL CONCEALED VALVES.
- PROVIDE STOP VALVES FOR ALL FIXTURES.
- PROVIDE ISOLATING VALVES WITH ACCESS PANELS FOR EACH NEW COLD WATER BRANCH FEEDING A RESTROOM.

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	WASTE	TRAP	VENT	COLD WATER	HOT WATER	REMARKS
WC 1	WATER CLOSET (HANDICAPPED)	4	INTEGRAL	2	3/4	-	"AMERICAN STD" CADET 2998.010 ADA 16-1/2" H, 10" ROUGH-IN, ELONGATED TOILET WITH "OLSONITE" OPEN FRONT SEAT 95SSC
L 1	LAVATORY (HANDICAPPED)	1 1/2	1 1/4 X 1 1/2	1 1/2	1/2	1/2	"AMERICAN STD" LUCERNE 0356.015 CHICAGO FAUCET 404-VCP
UR 1	URINAL	2	INTEGRAL	1 1/2	1 1/4	-	"AMERICAN STANDARD" MODEL 6154.100 SMALL FLOWISE FLUSH-FREE CHINA WATERLESS URINAL VITREOUS CHINA. WALL HUNG URINAL WITH INTEGRAL HOUSING AND DRAIN INSERT.

PIPING MATERIAL SCHEDULE

SERVICE	MATERIAL	COPPER TYPE						REMARKS
		"K"	"L"	SCHED. 40 BLACK STEEL	SCHED. 40 GALV. STEEL	CL. SOIL PIPE & FITTINGS, S.M.	VITRIFIED CLAY	
WATER	INSIDE	●						TYPE K WRAPPED WHEN UNDER SLAB WITH FOAM INSULATION
	OUTSIDE							
SANITARY SEWER	INSIDE							
	OUTSIDE							
SANITARY VENT	INSIDE							
	OUTSIDE							
GAS	INSIDE							
	OUTSIDE							
STORM DRAINAGE	INSIDE							
	OUTSIDE							
CONDENSATE DRAIN	INSIDE							PROVIDE FOAM INSULATION
	OUTSIDE							
INDIRECT WASTE	INSIDE							
	OUTSIDE							

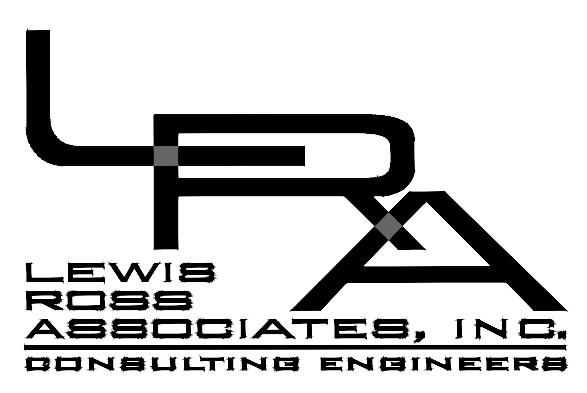
CLIENT:
CATHERINE MCKENNA

21020 VICTORY BLVD.
WOODLAND HILLS,
CA 91367

PROJECT:
CAFE BIZOU

30315 CANWOOD ST. #14
AGOURA HILLS, CA 91301

PROJECT NO.
16-068



9401 RESEDA BLVD. SUITE 200
NORTH RIDGE, CA 91324
PHONE: (818) 886-2190 FAX: (818) 886-2131



REV	DESCRIPTION	DATE
-	PLAN CHECK	11-07-2016

PROJECT NO.: 16-068
DATE: 2016-10-20
SCALE: AS SHOWN
DRAWN BY: NA
PROJECT NAME: PROJECT NAME

DESCRIPTION:
LEGEND, NOTES AND SCHEDULES

SHEET NUMBER:
P-1.0

FILE NAME:
COPYRIGHT LEWIS ROSS ASSOCIATES

CLIENT:
CATHERINE MCKENNA

21020 VICTORY BLVD.
WOODLAND HILLS,
CA 91367

PROJECT:
CAFE BIZOU

30315 CANWOOD ST. #14
AGOURA HILLS, CA 91301

PROJECT NO.
16-068



REV	DESCRIPTION	DATE
-	PLAN CHECK	11-07-2016

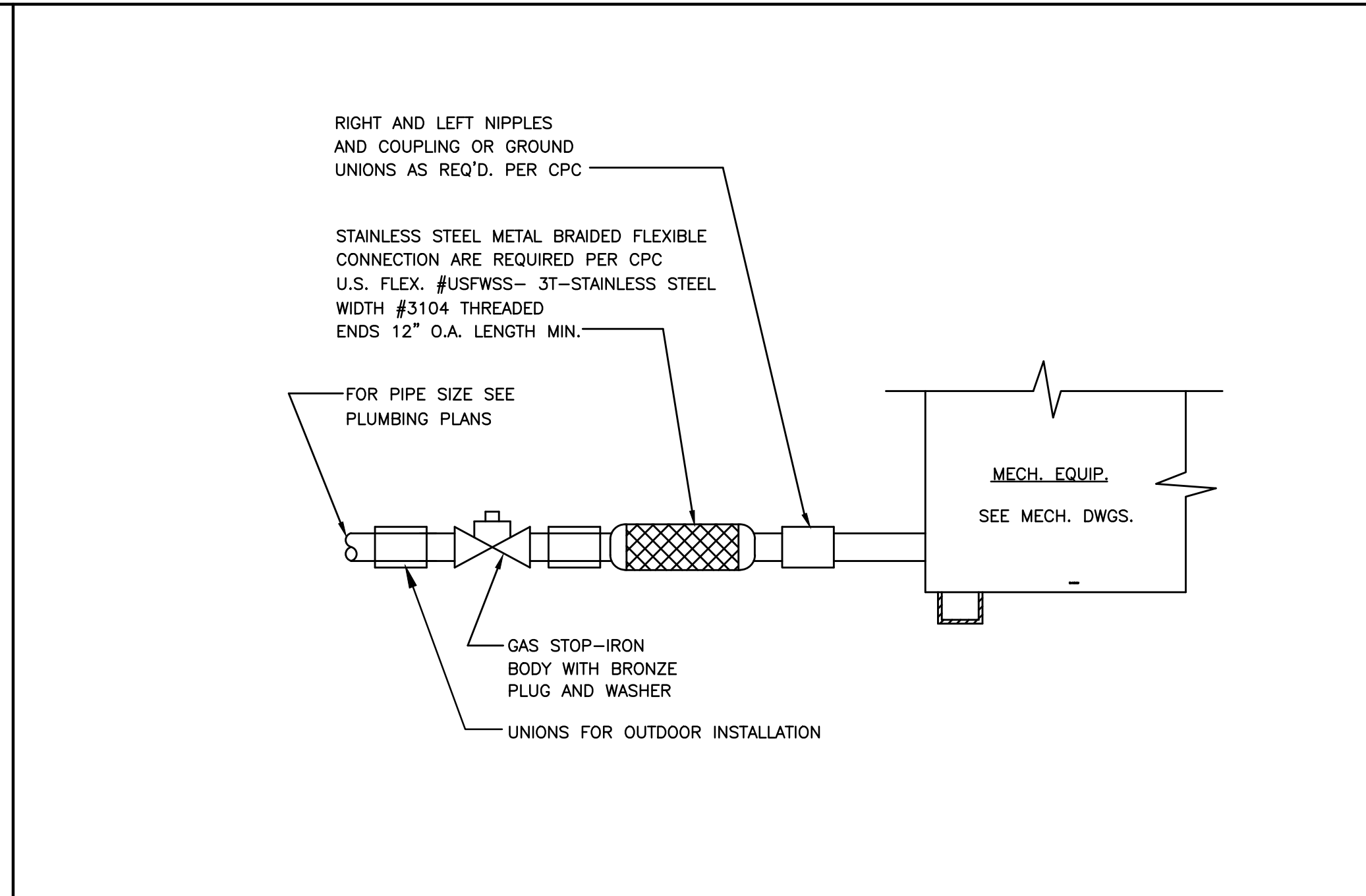
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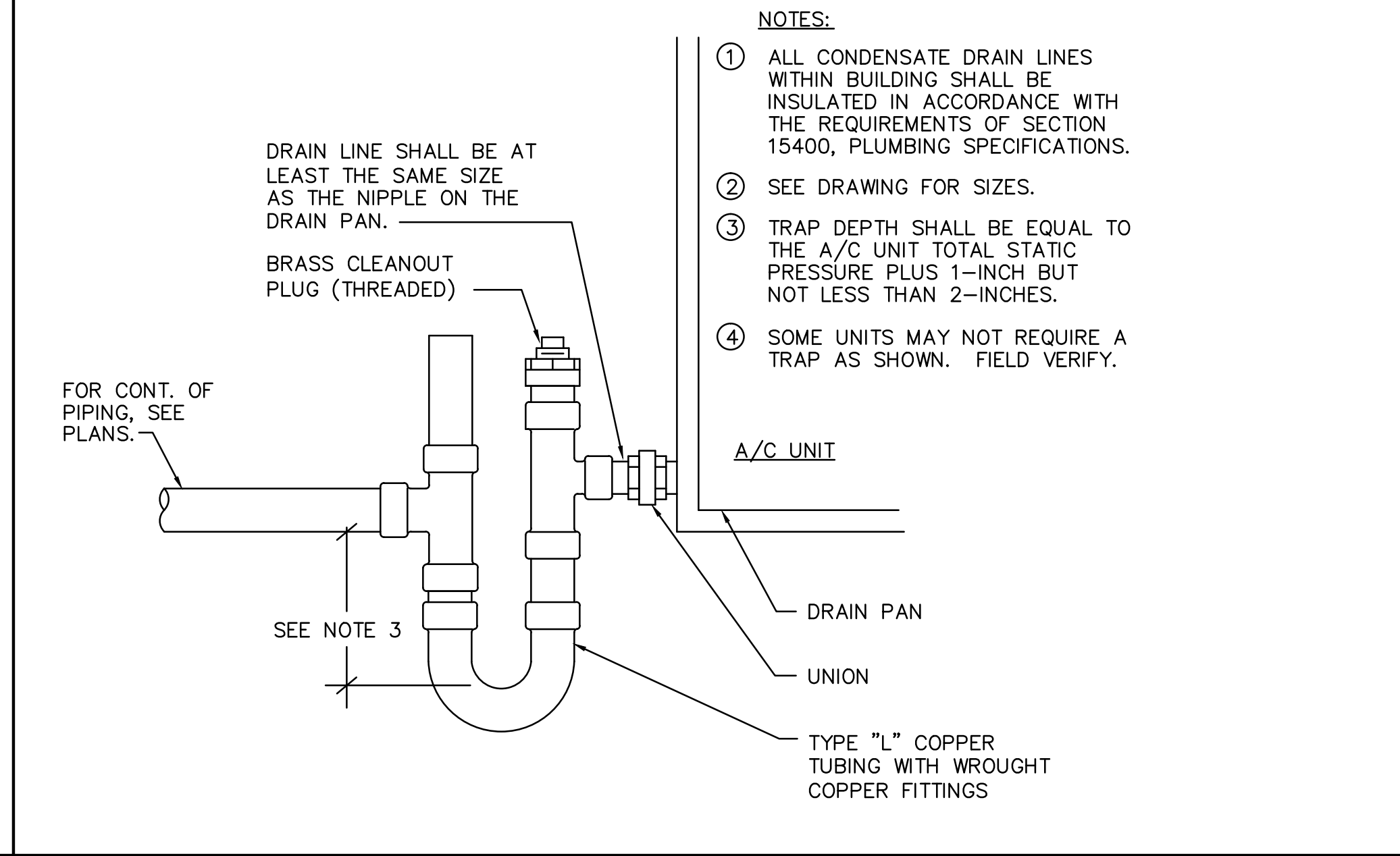
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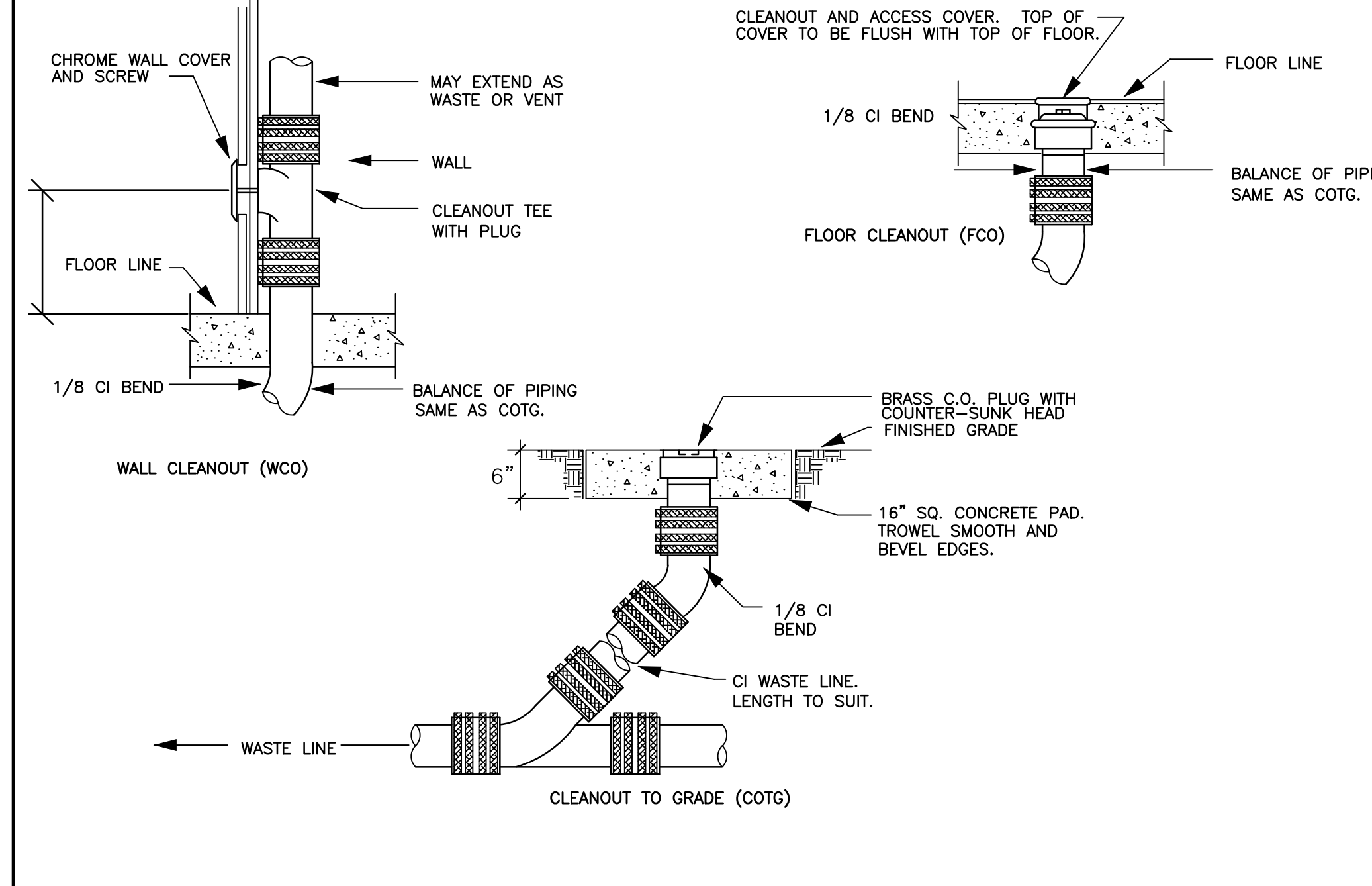
FILE NAME:
COPYRIGHT LEWIS ROSS ASSOCIATES



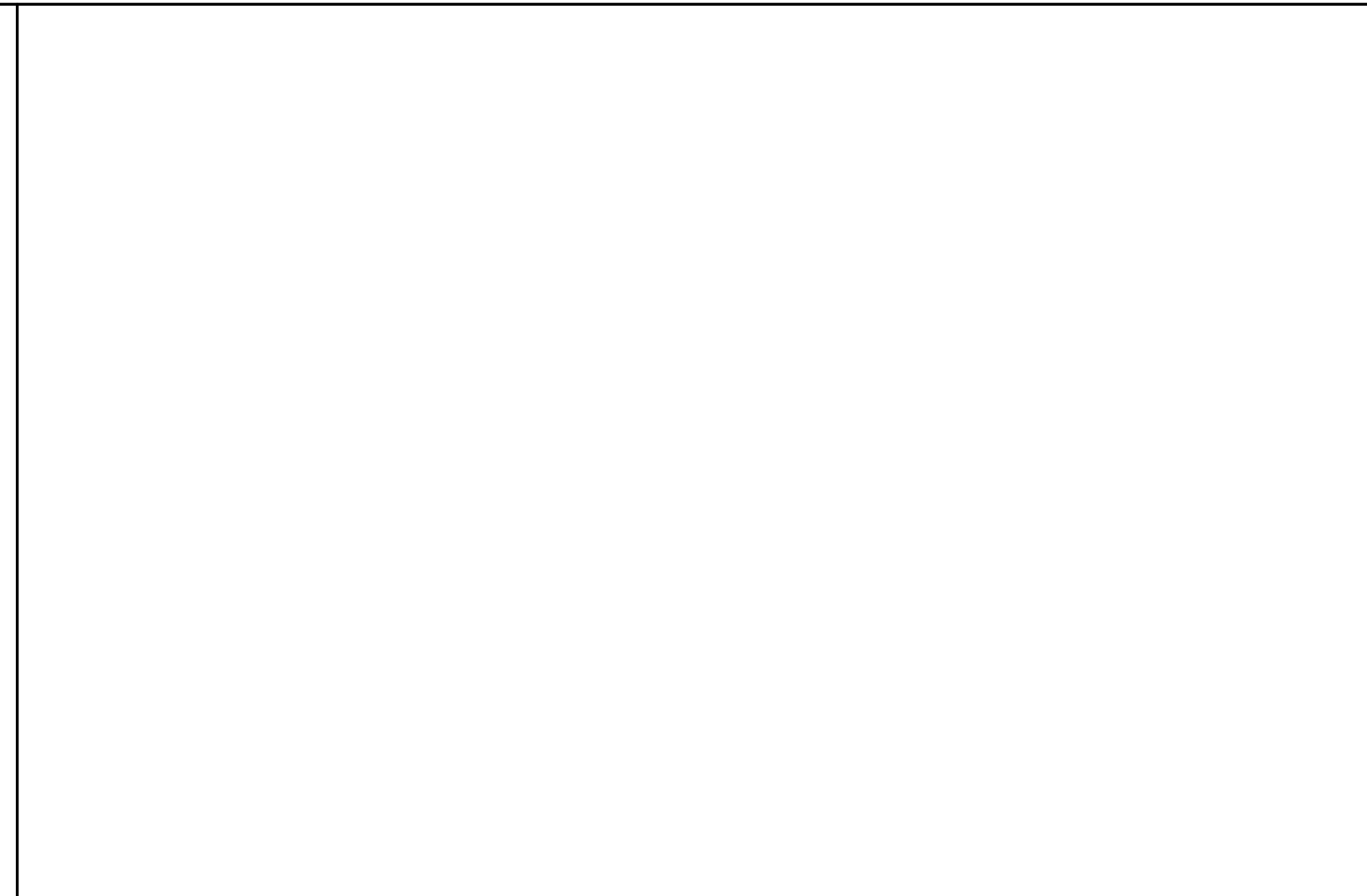
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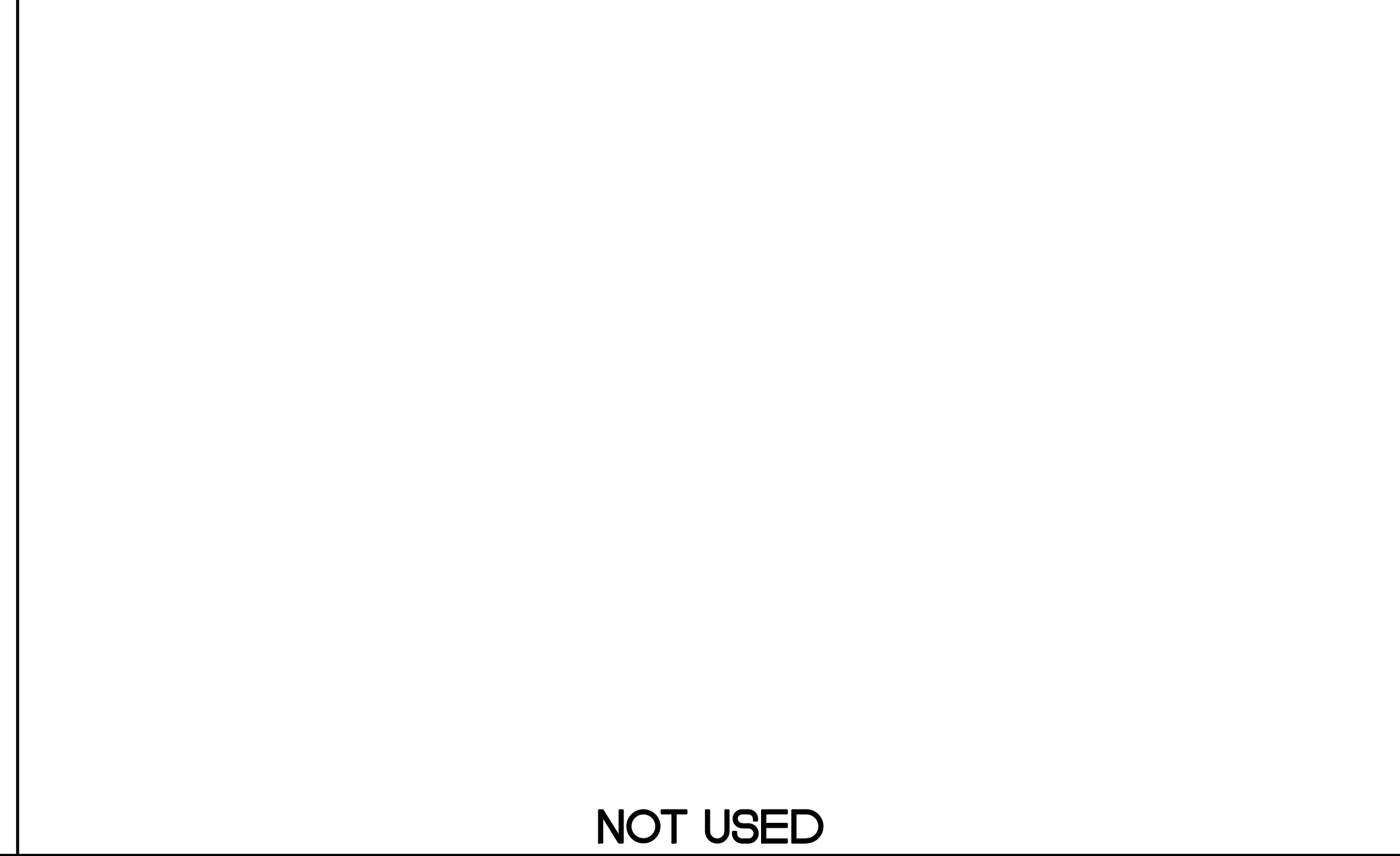
CONDENSATE DRAIN DETAIL SCALE: NONE 2



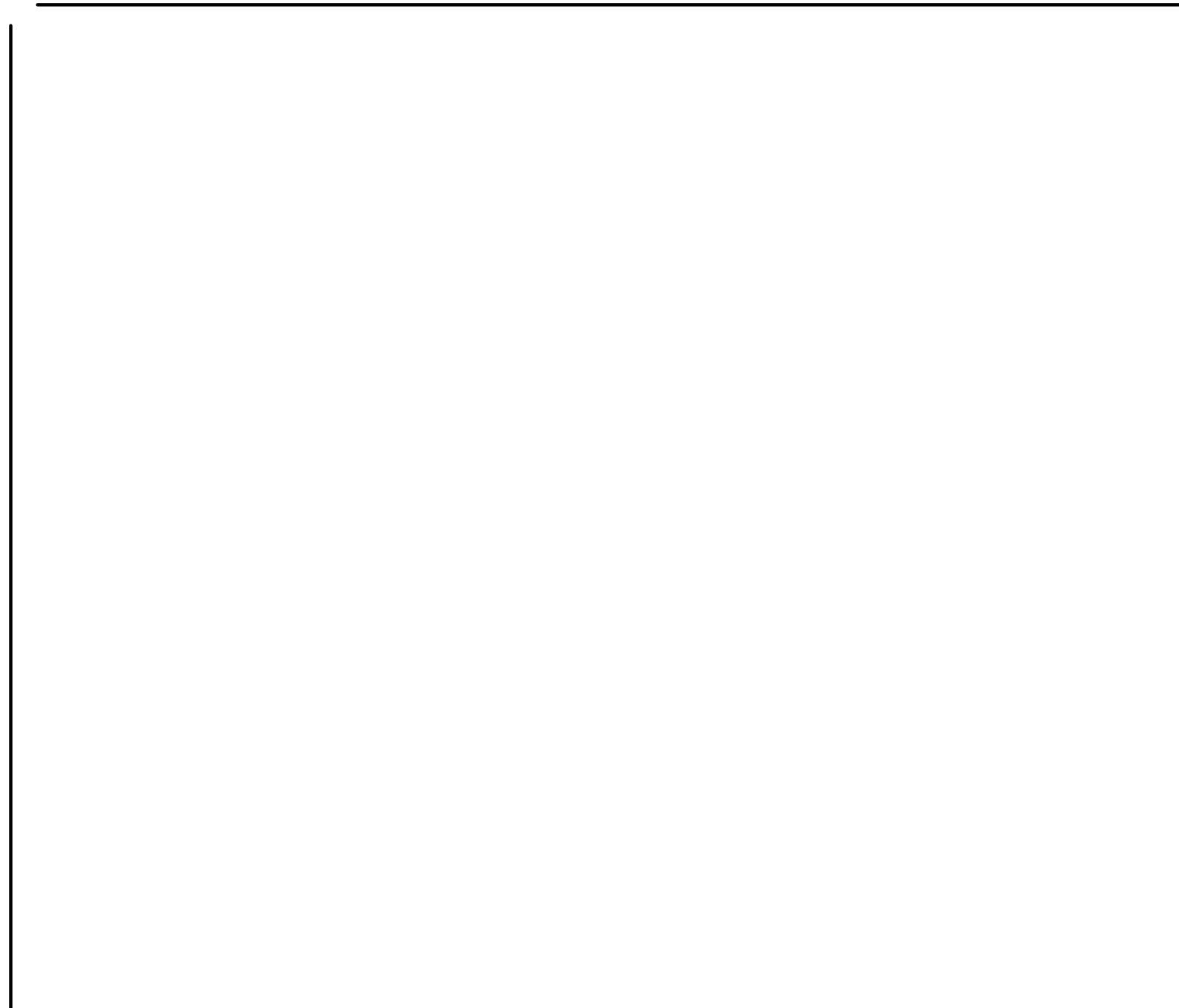
FLOOR/WALL CLEANOUT DETAIL SCALE: NONE 3



PIPE SUPPORT BELOW ROOF SCALE: NONE 6



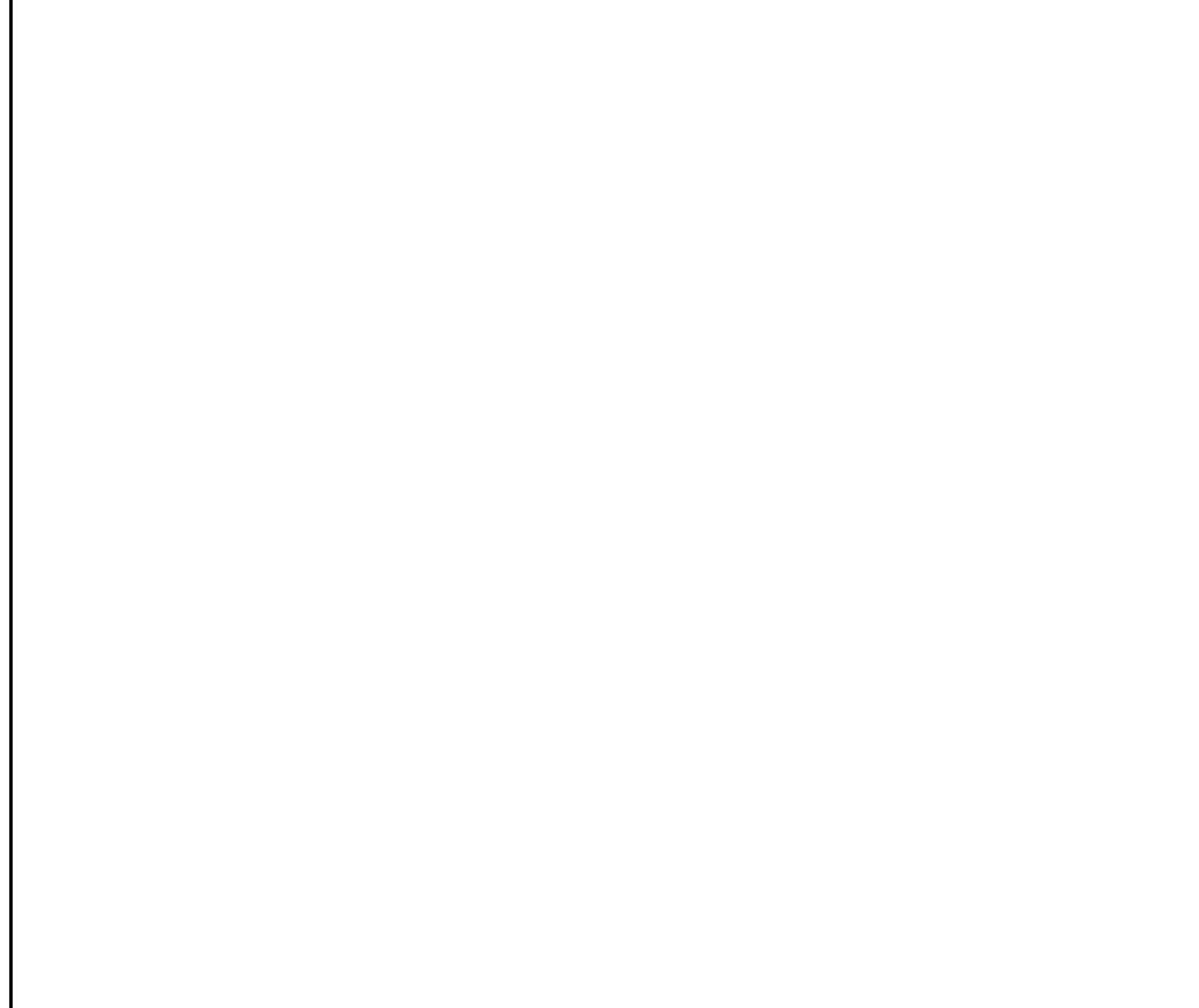
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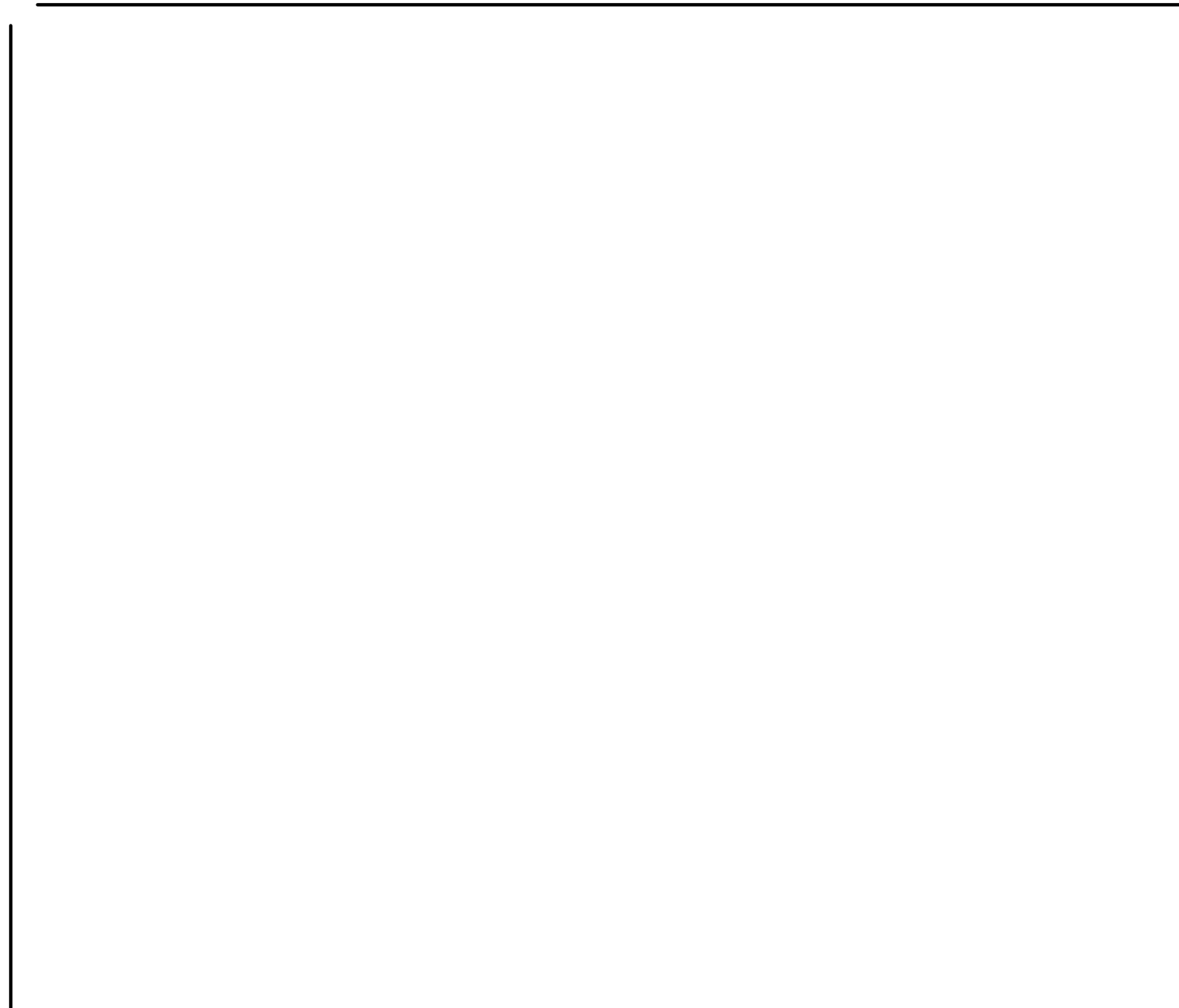
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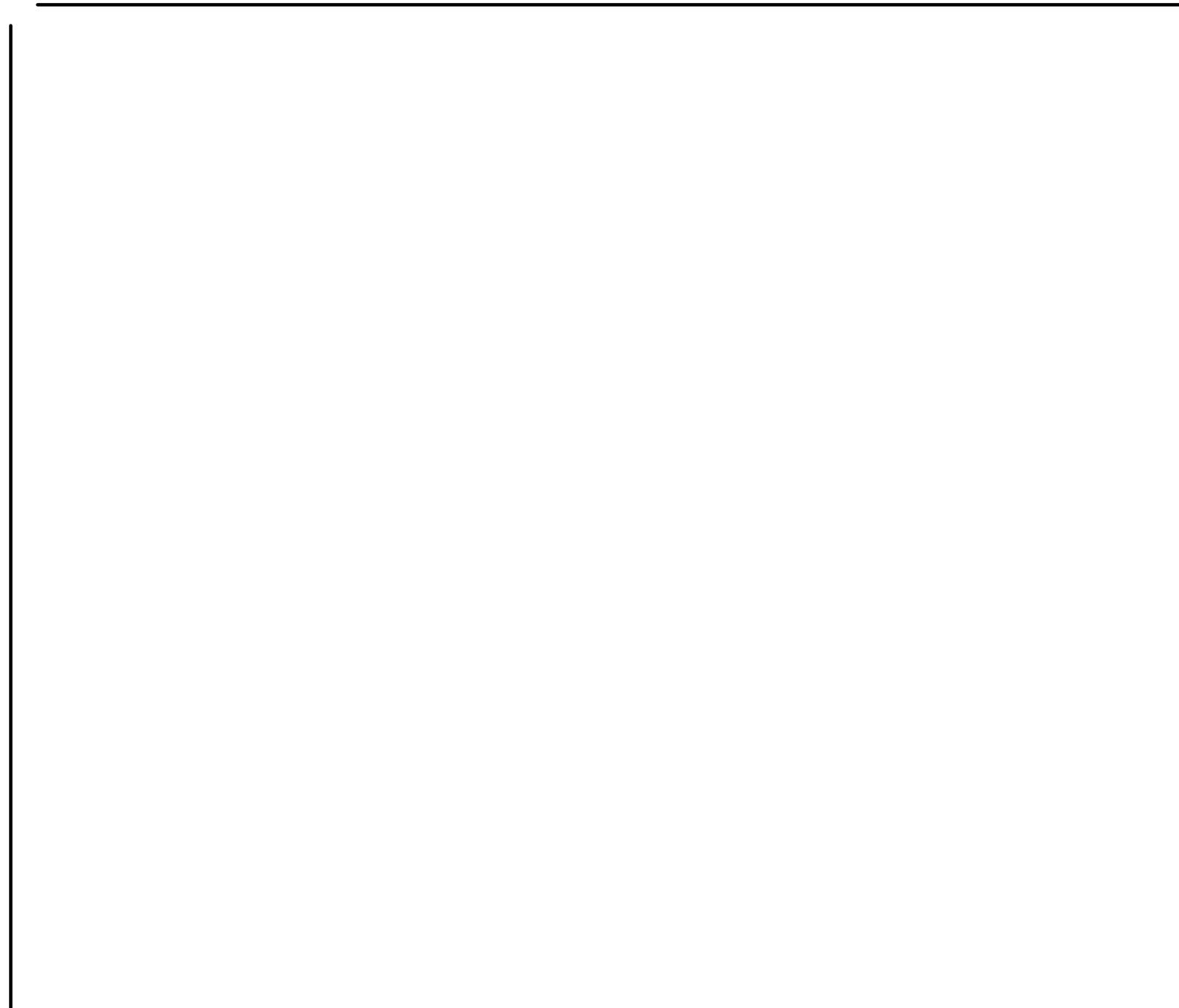
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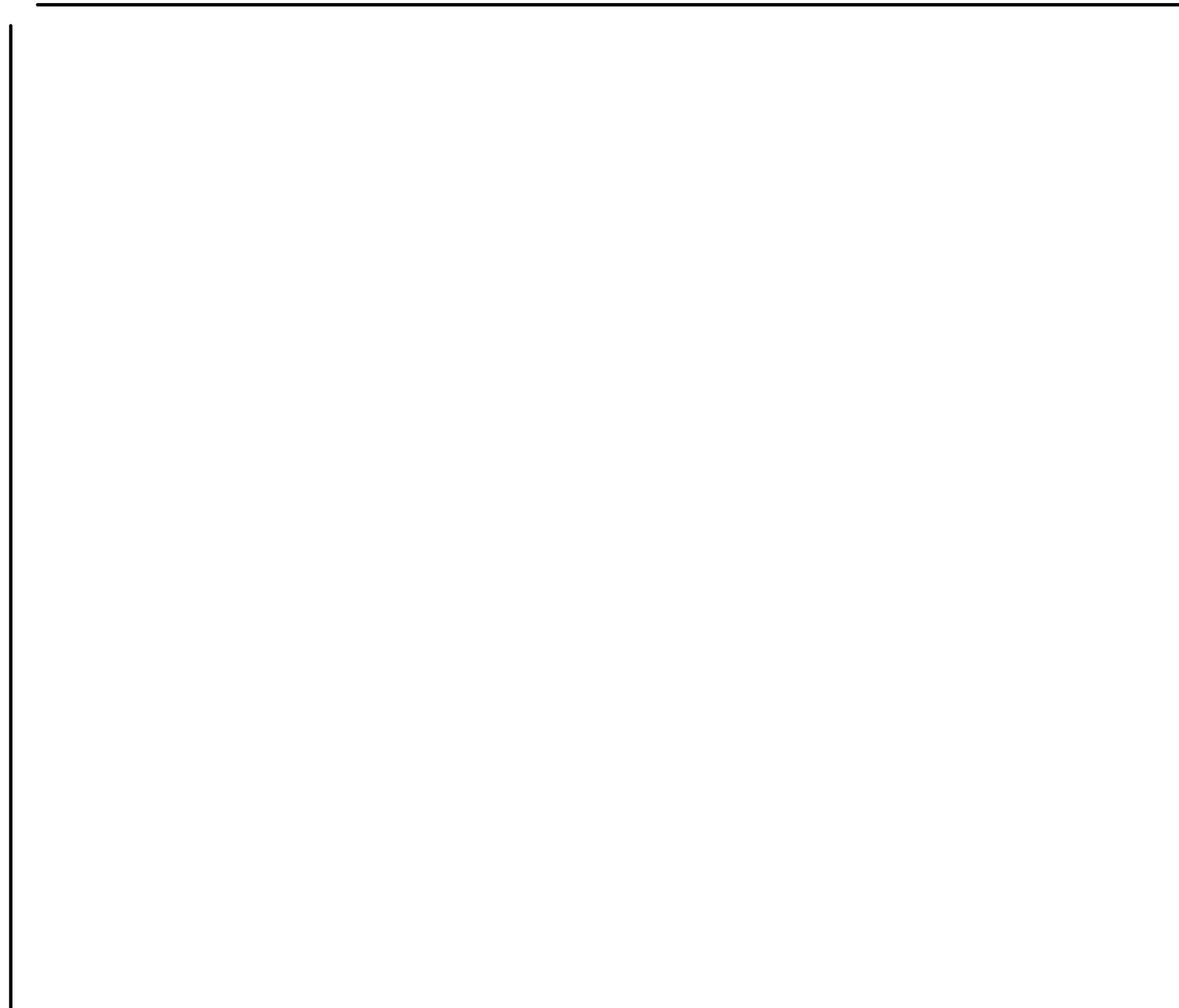
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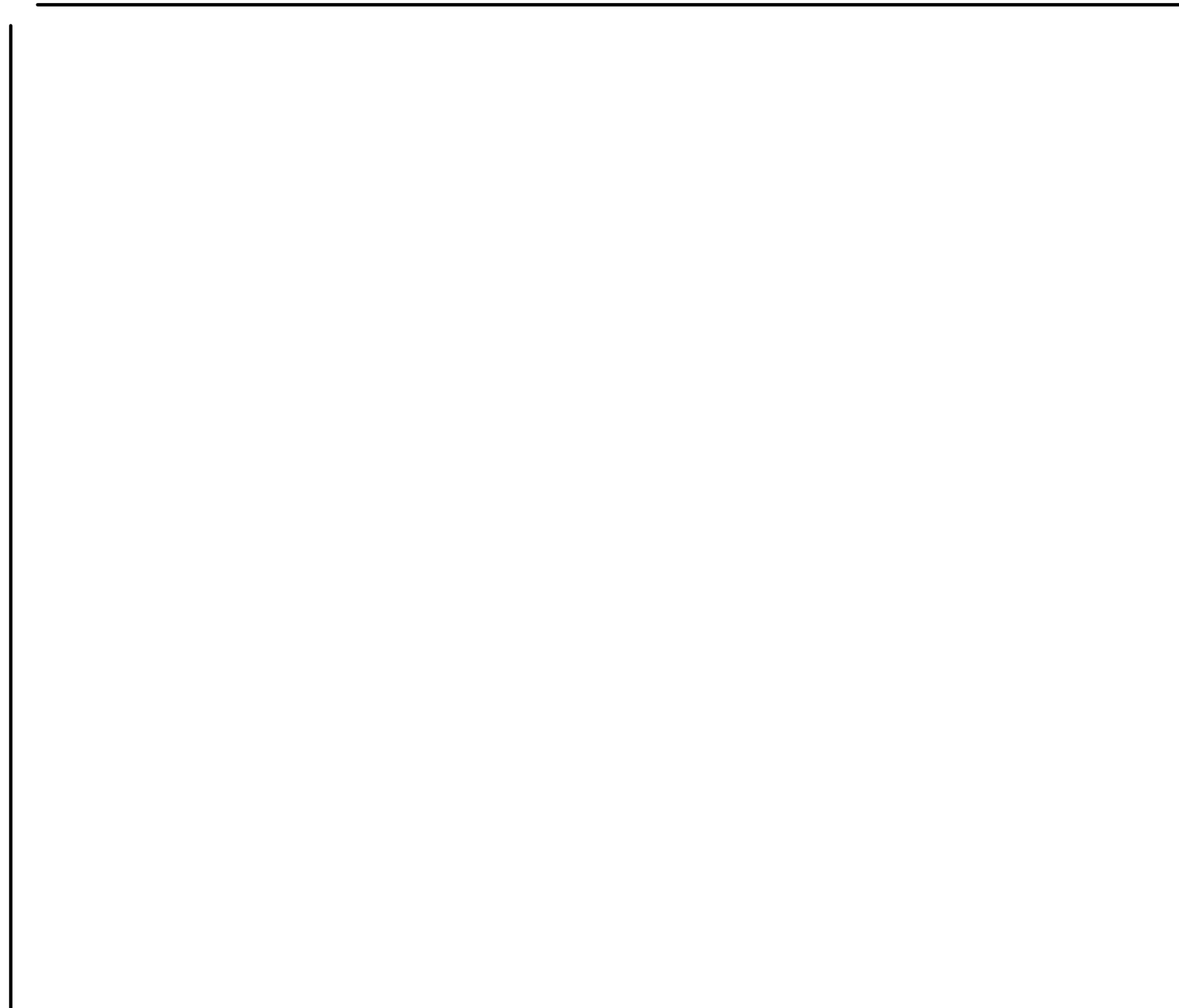
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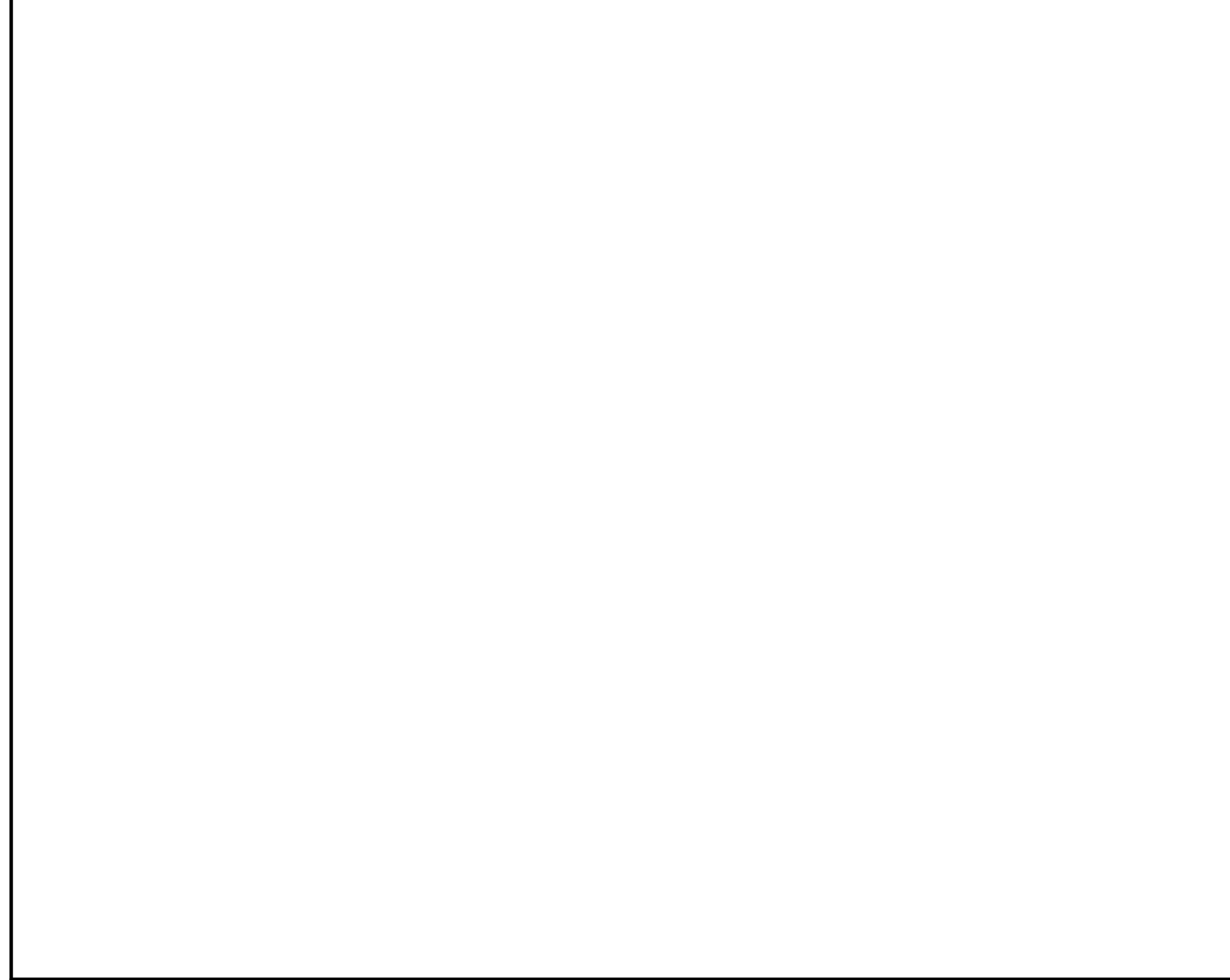
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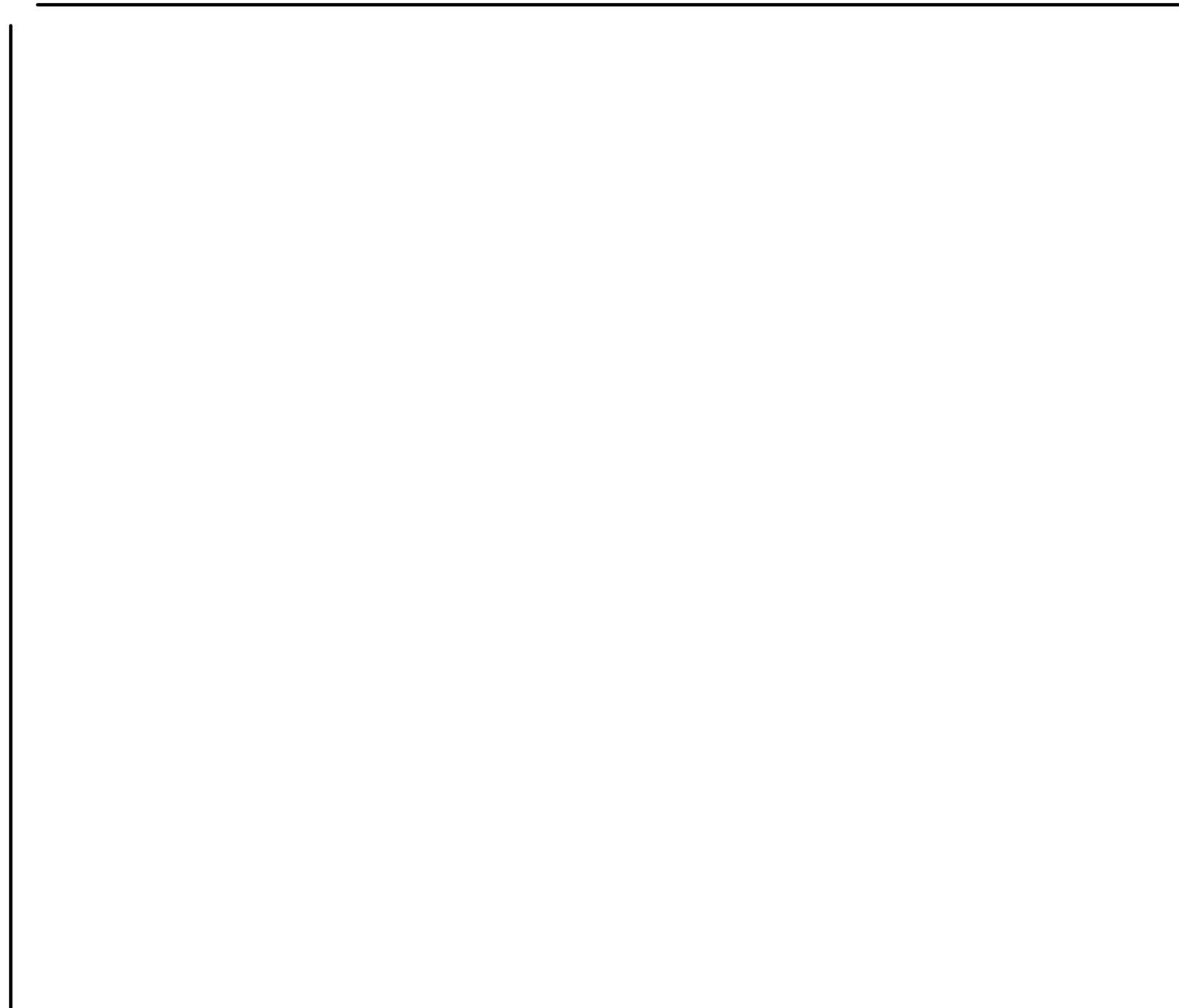
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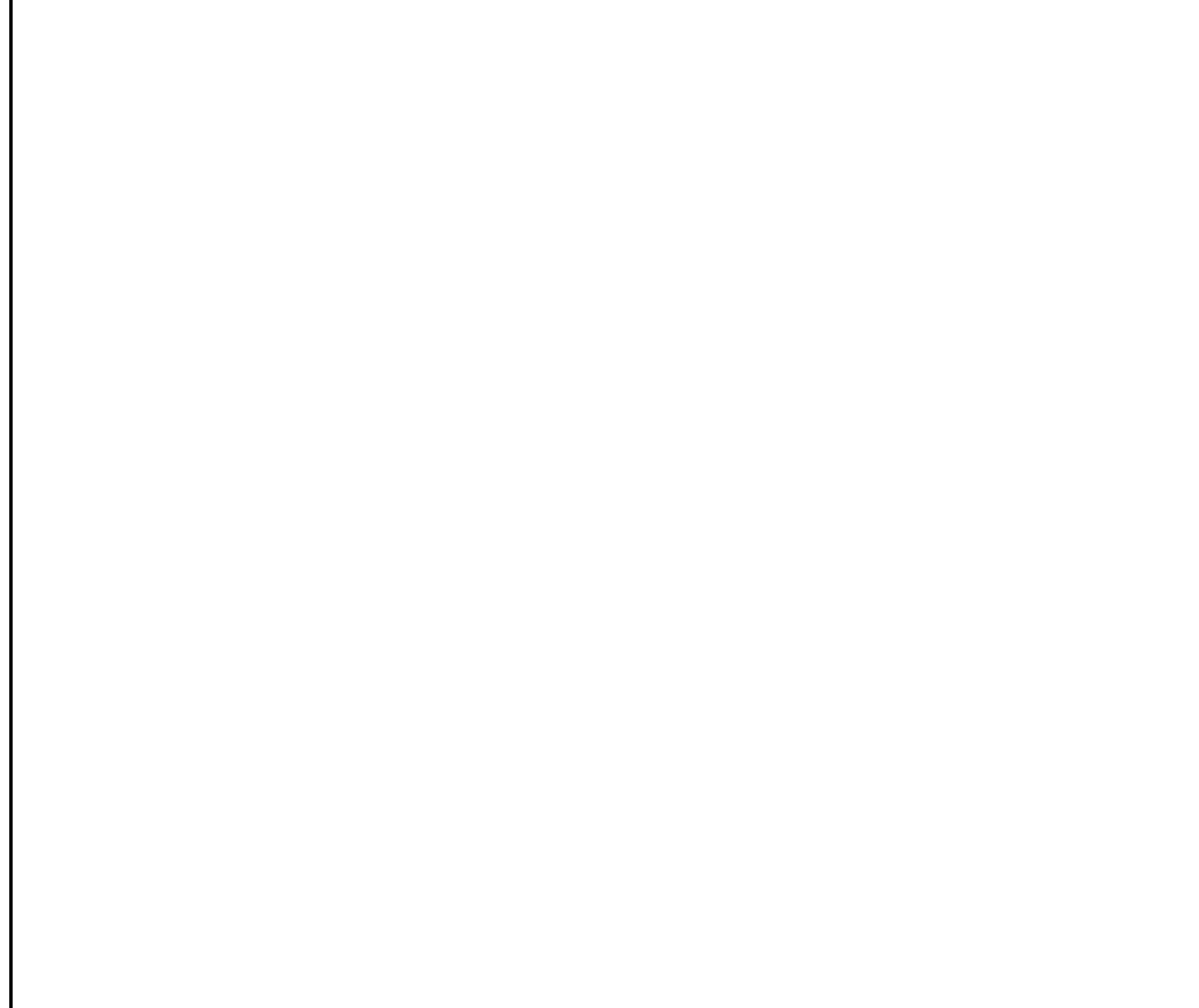
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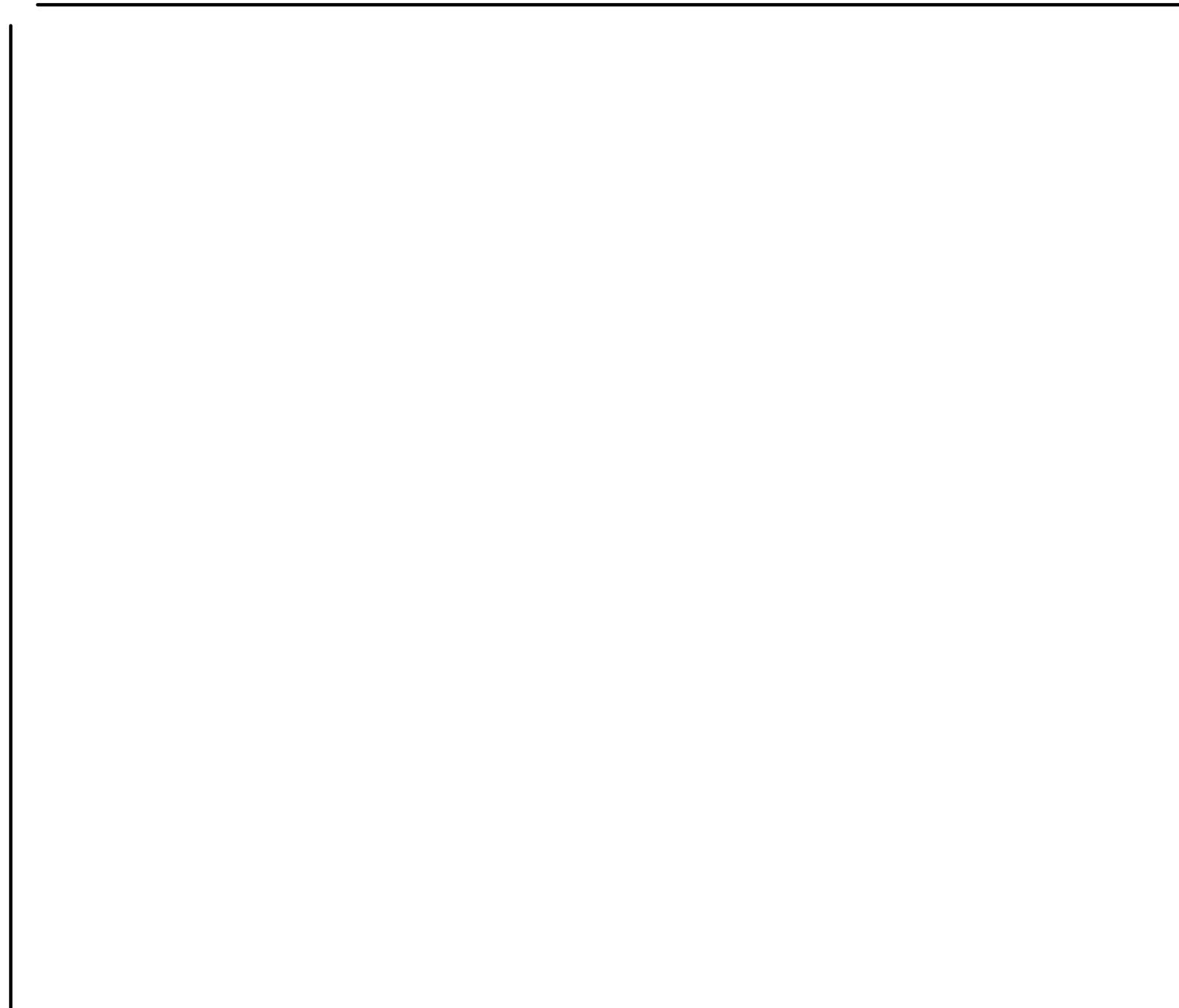
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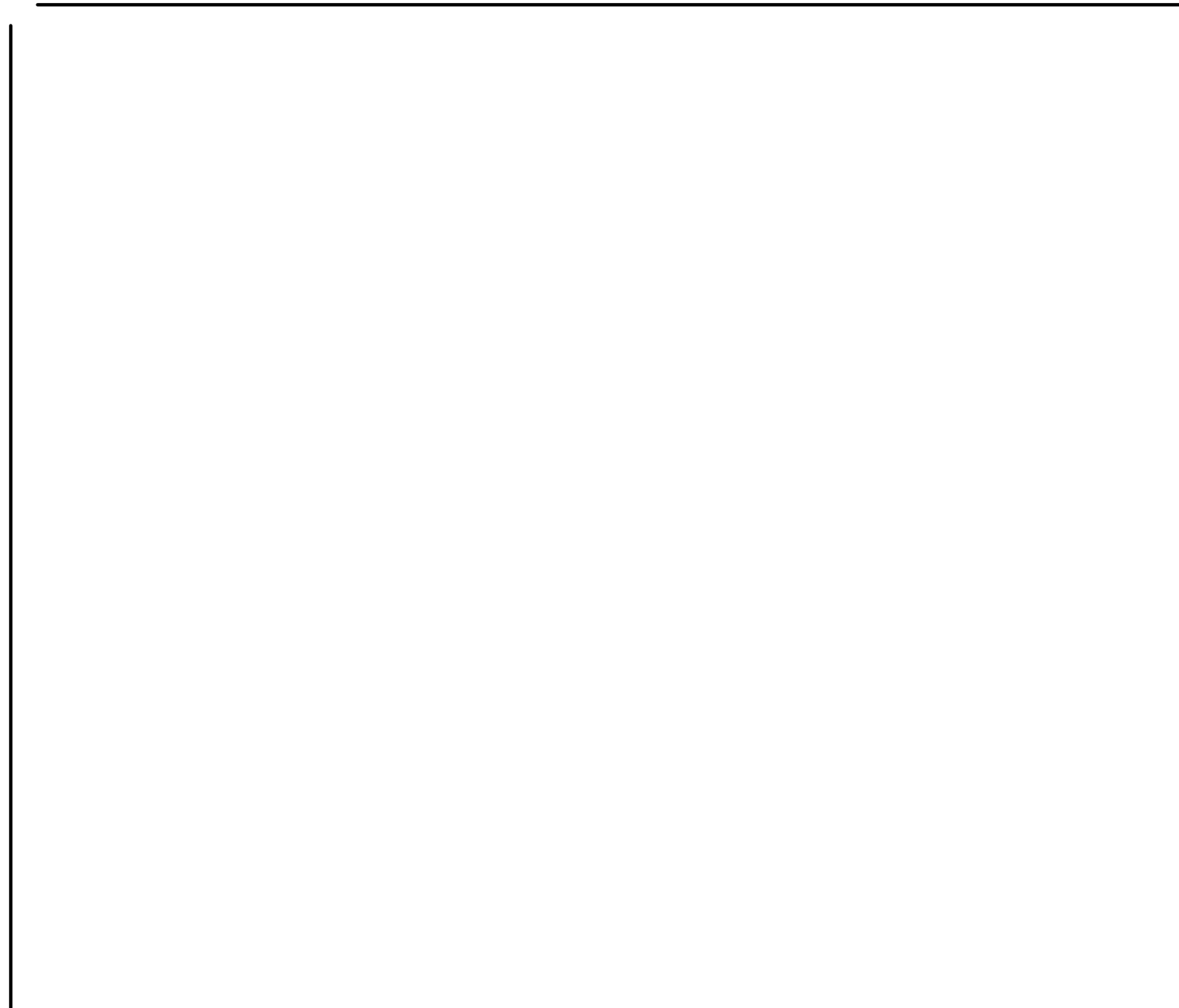
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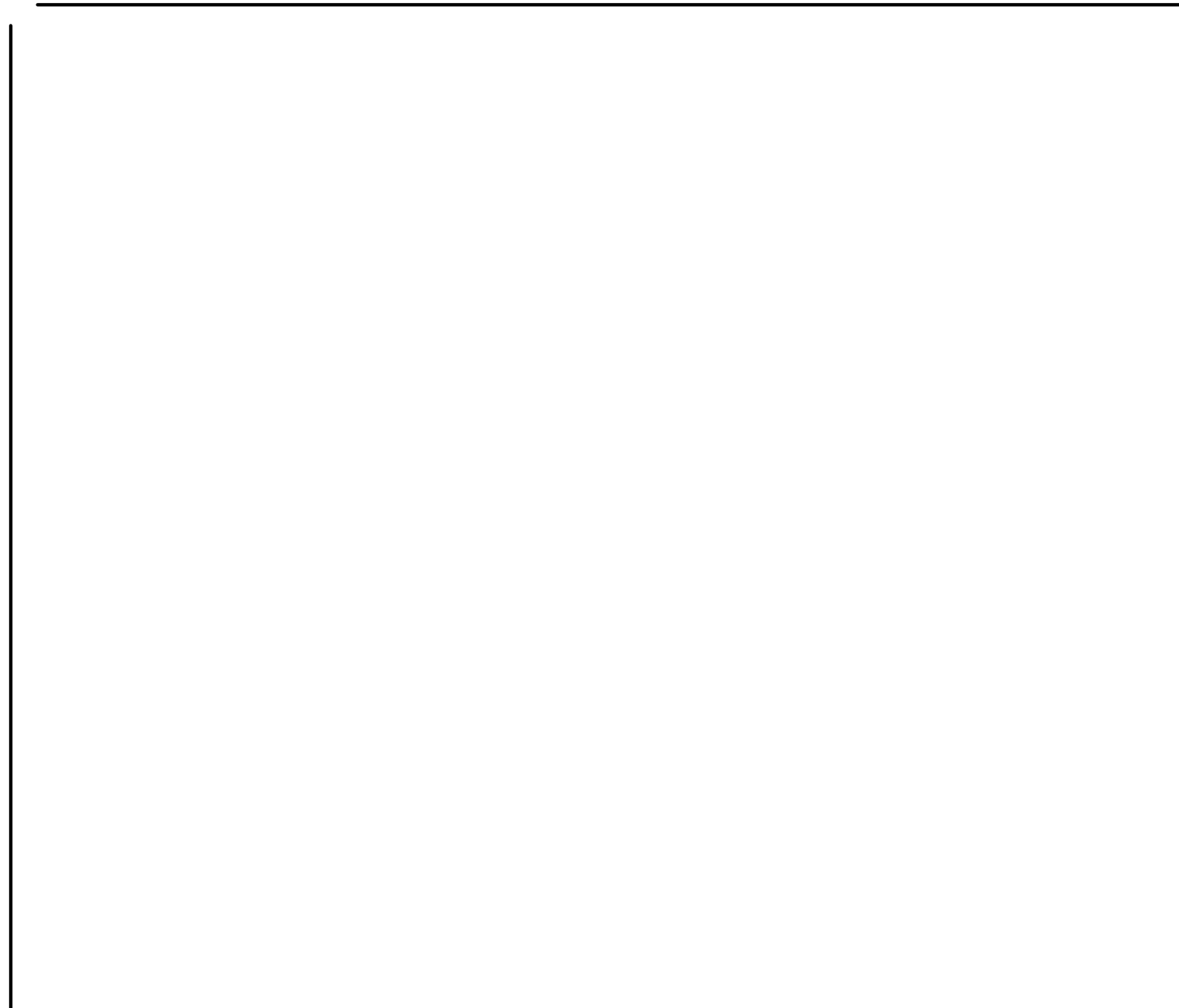
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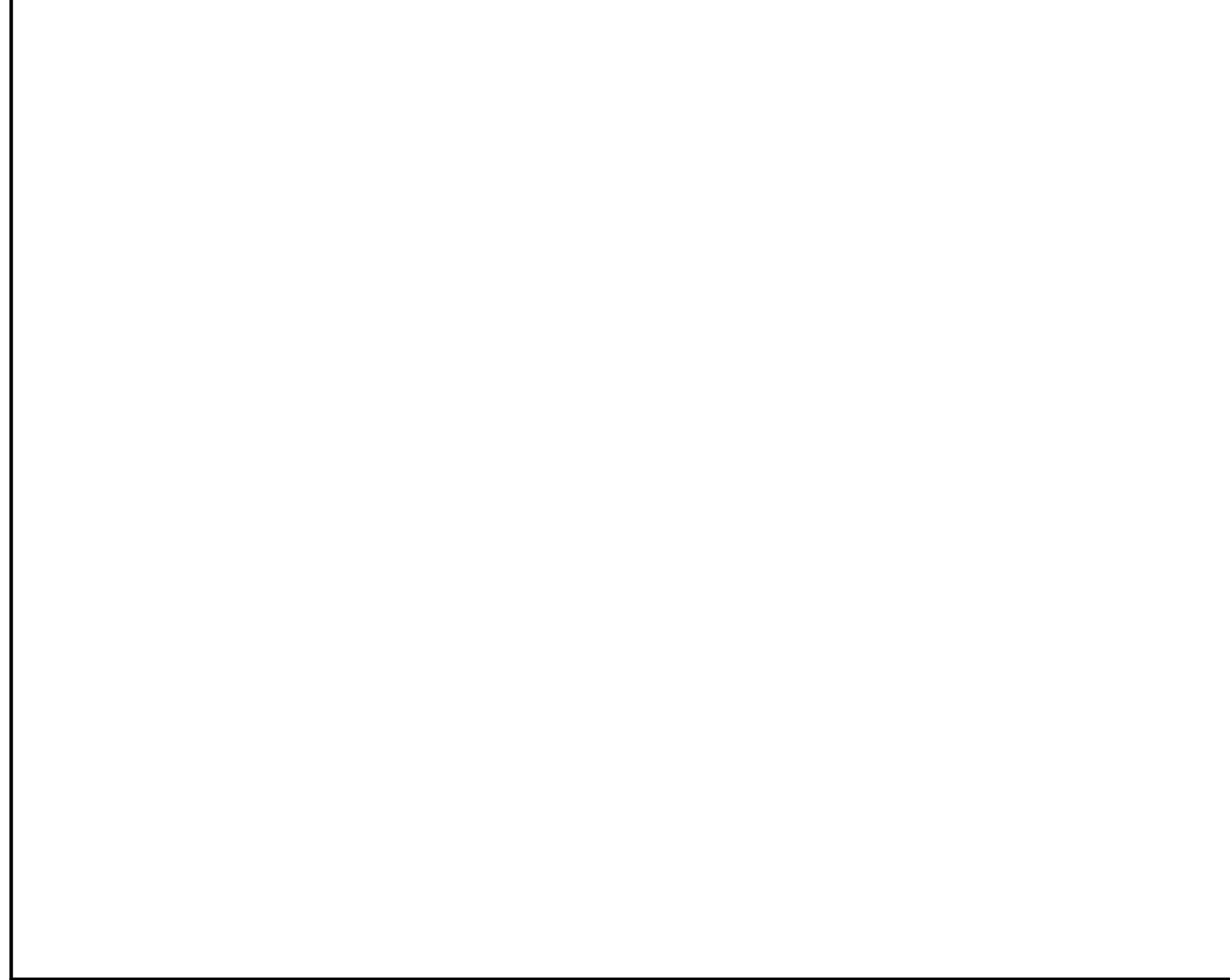
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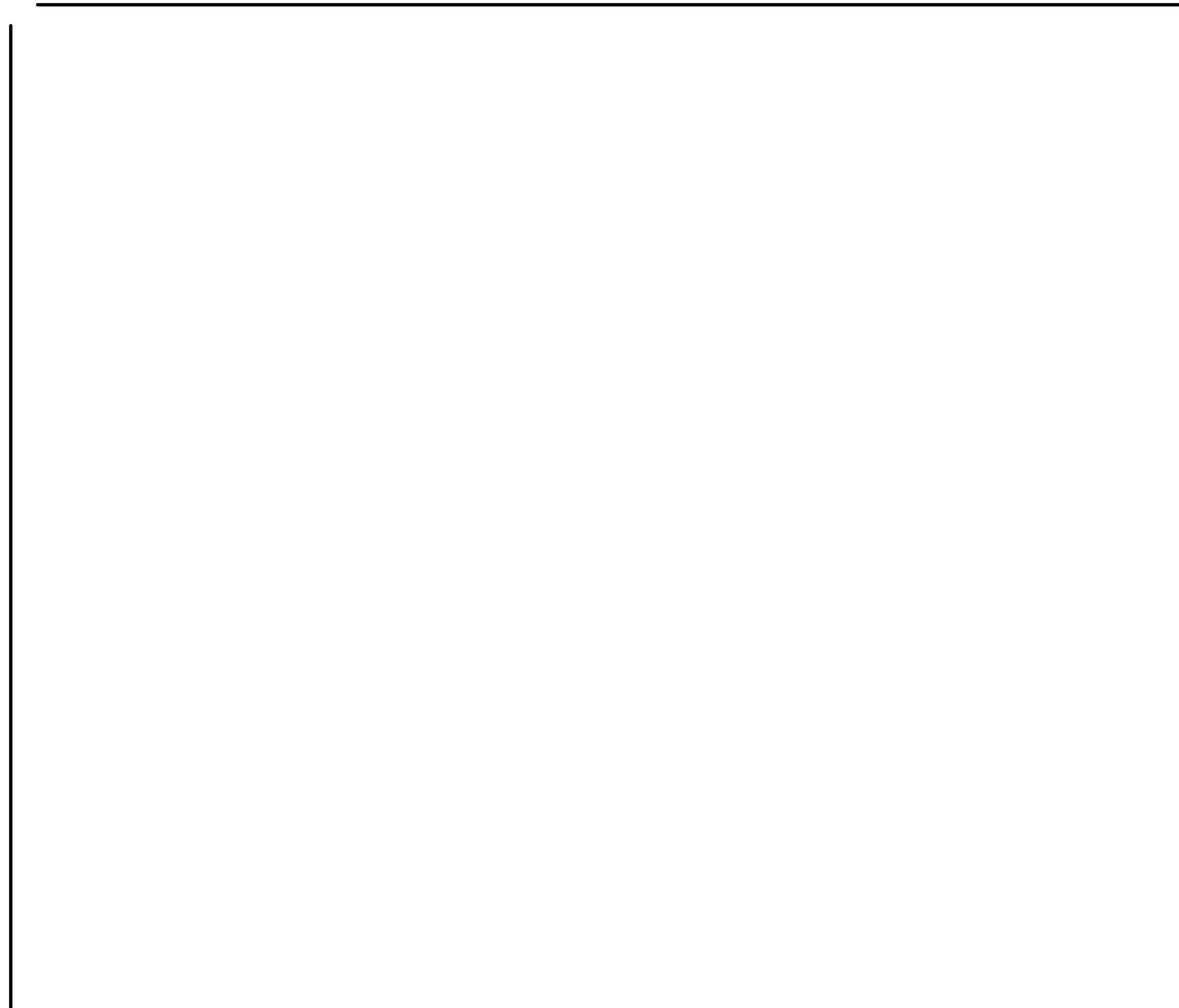
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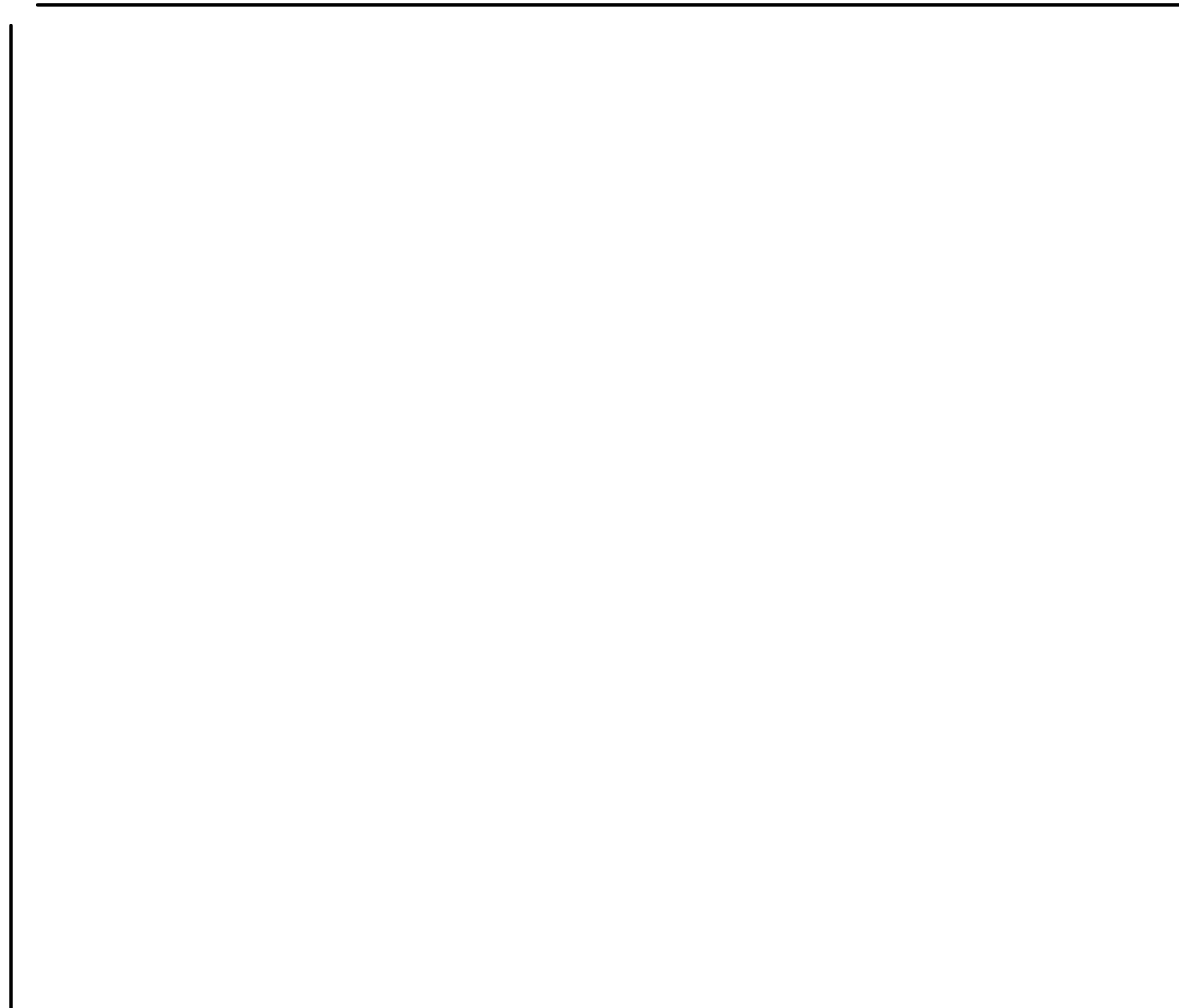
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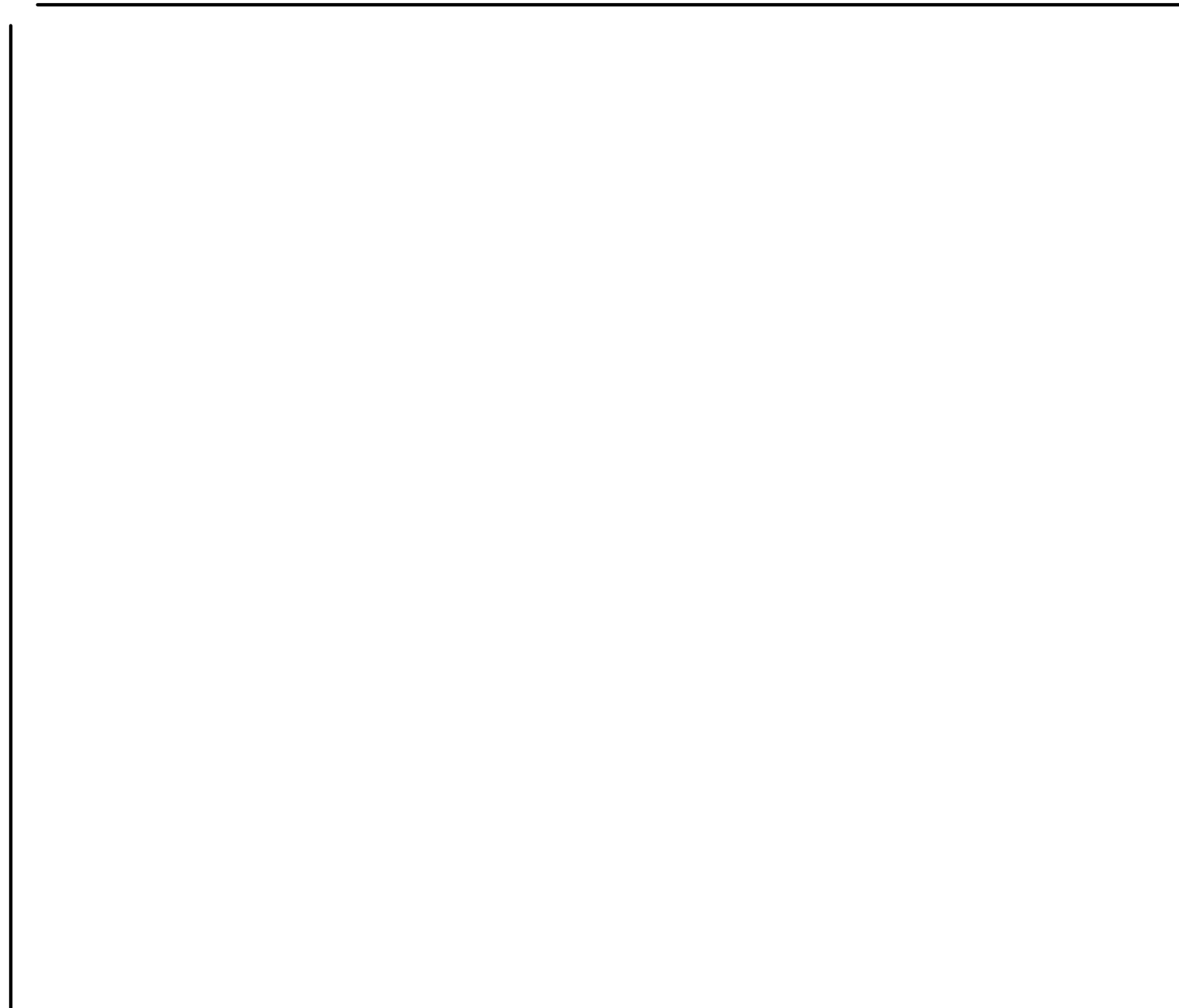
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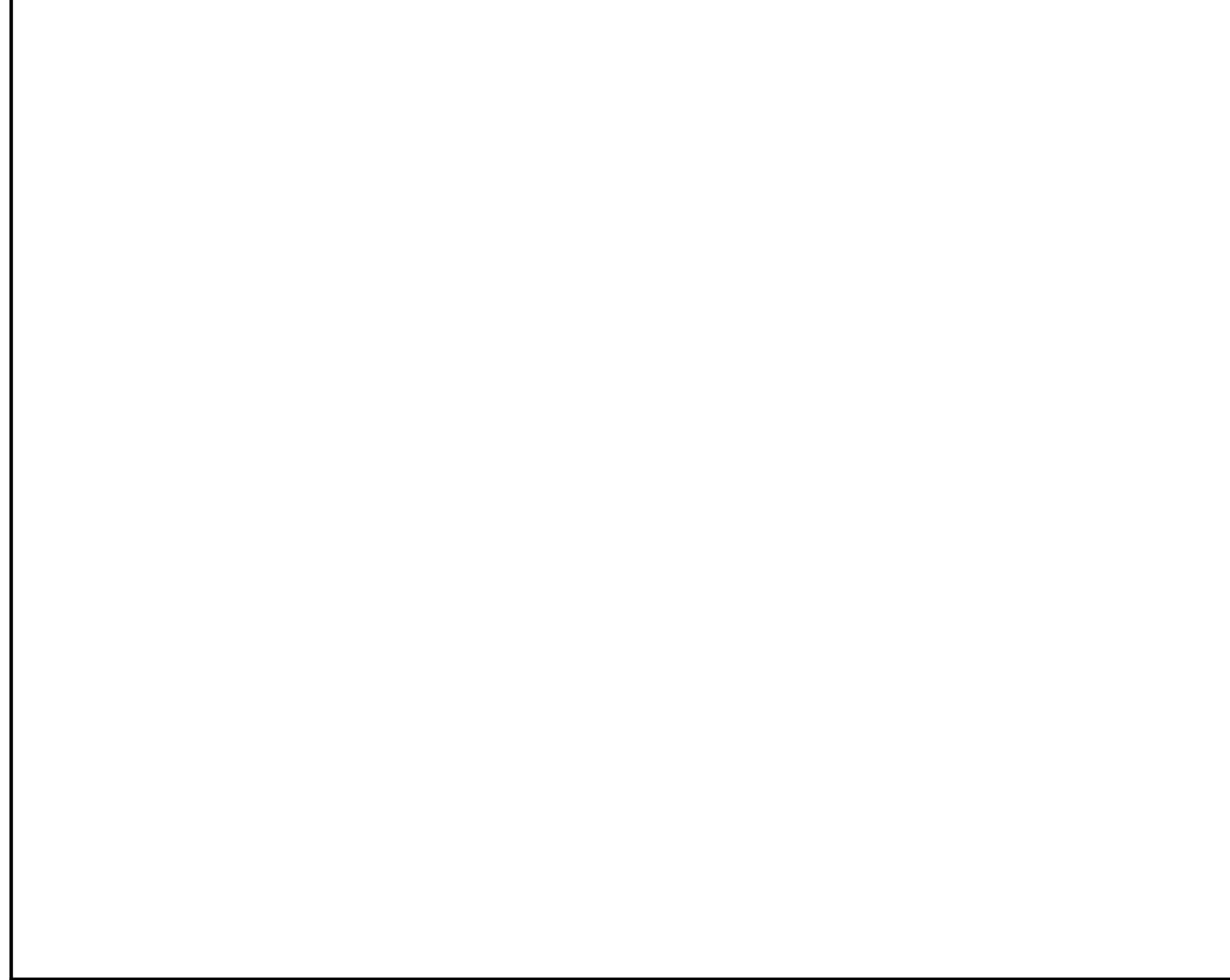
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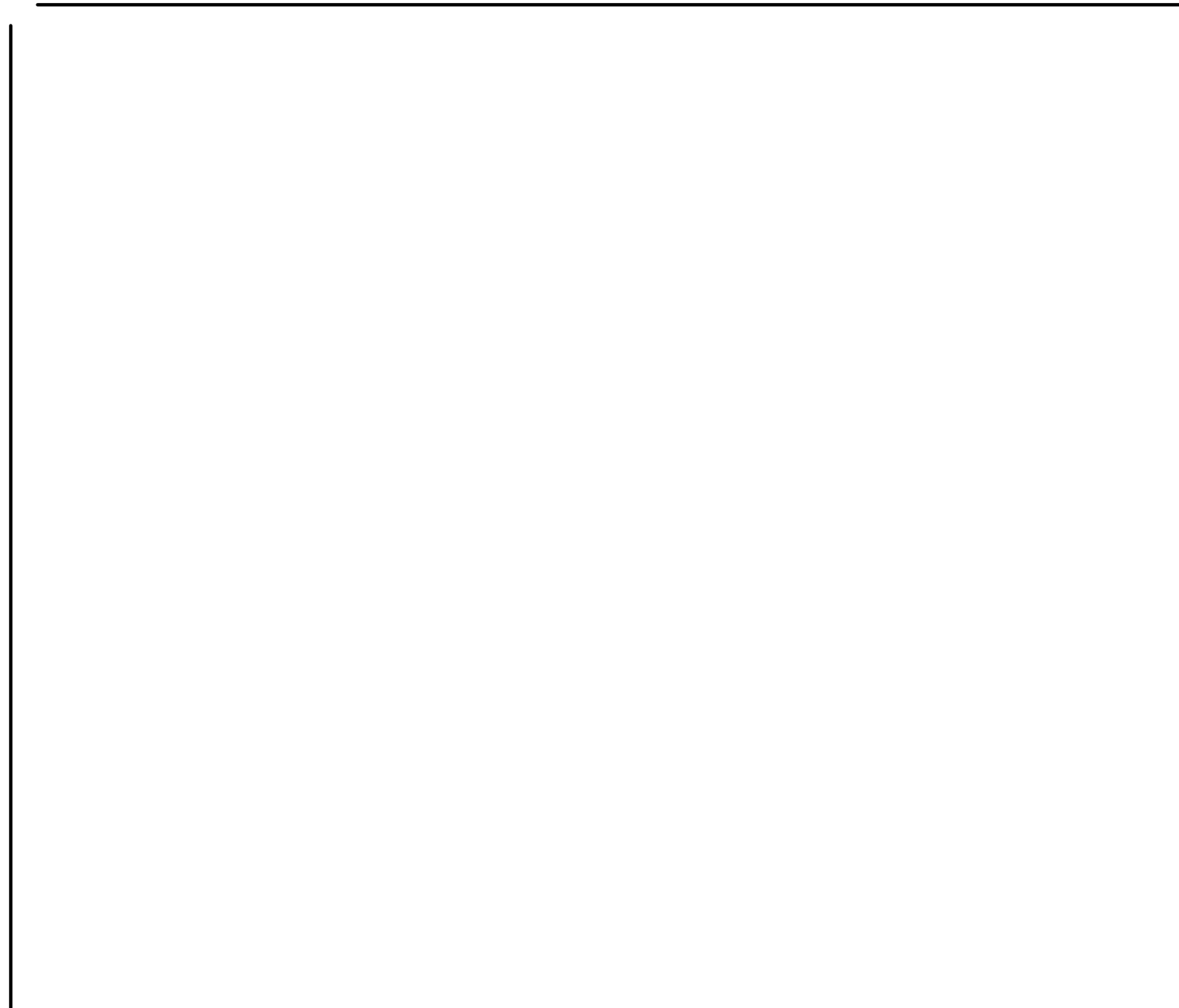
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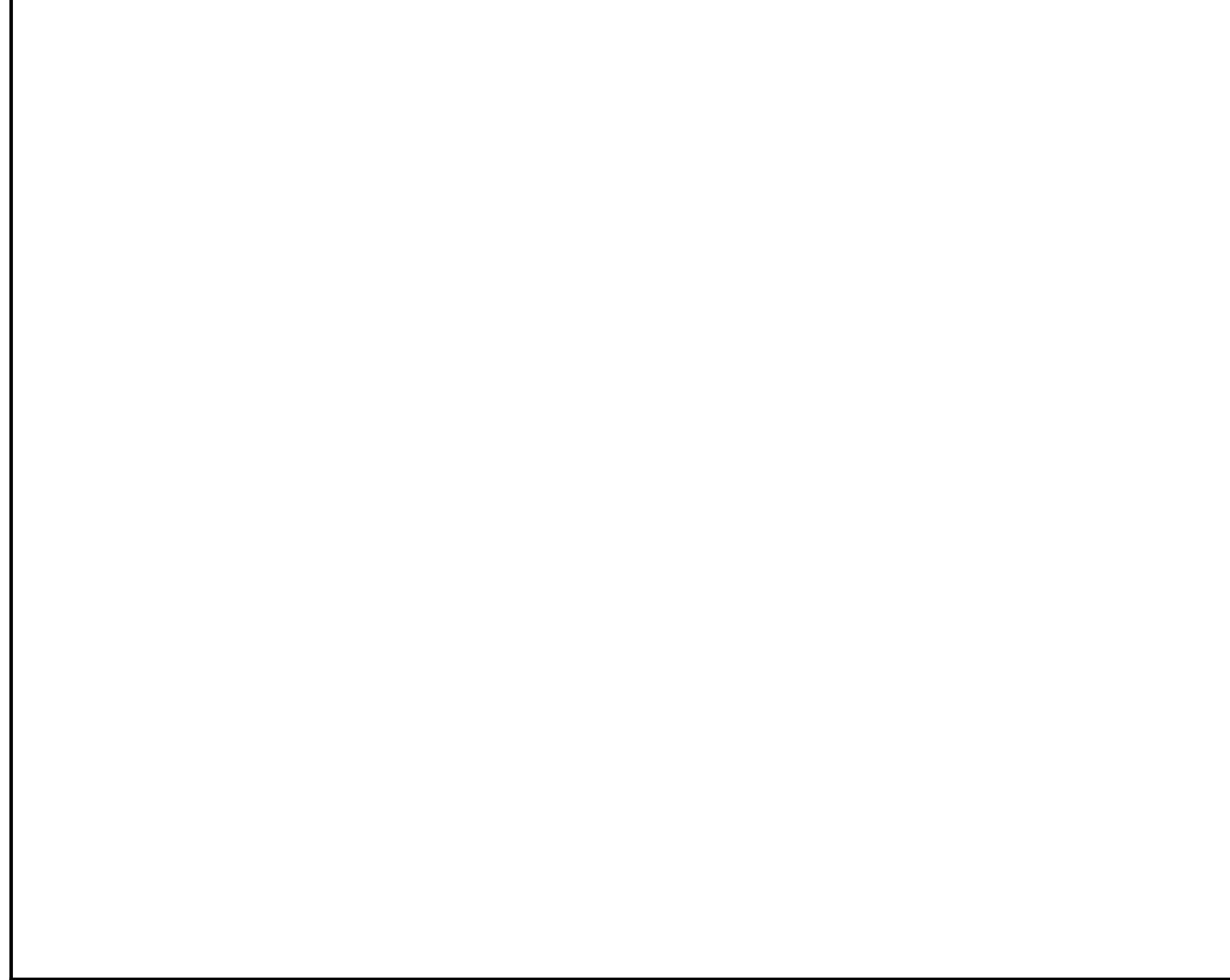
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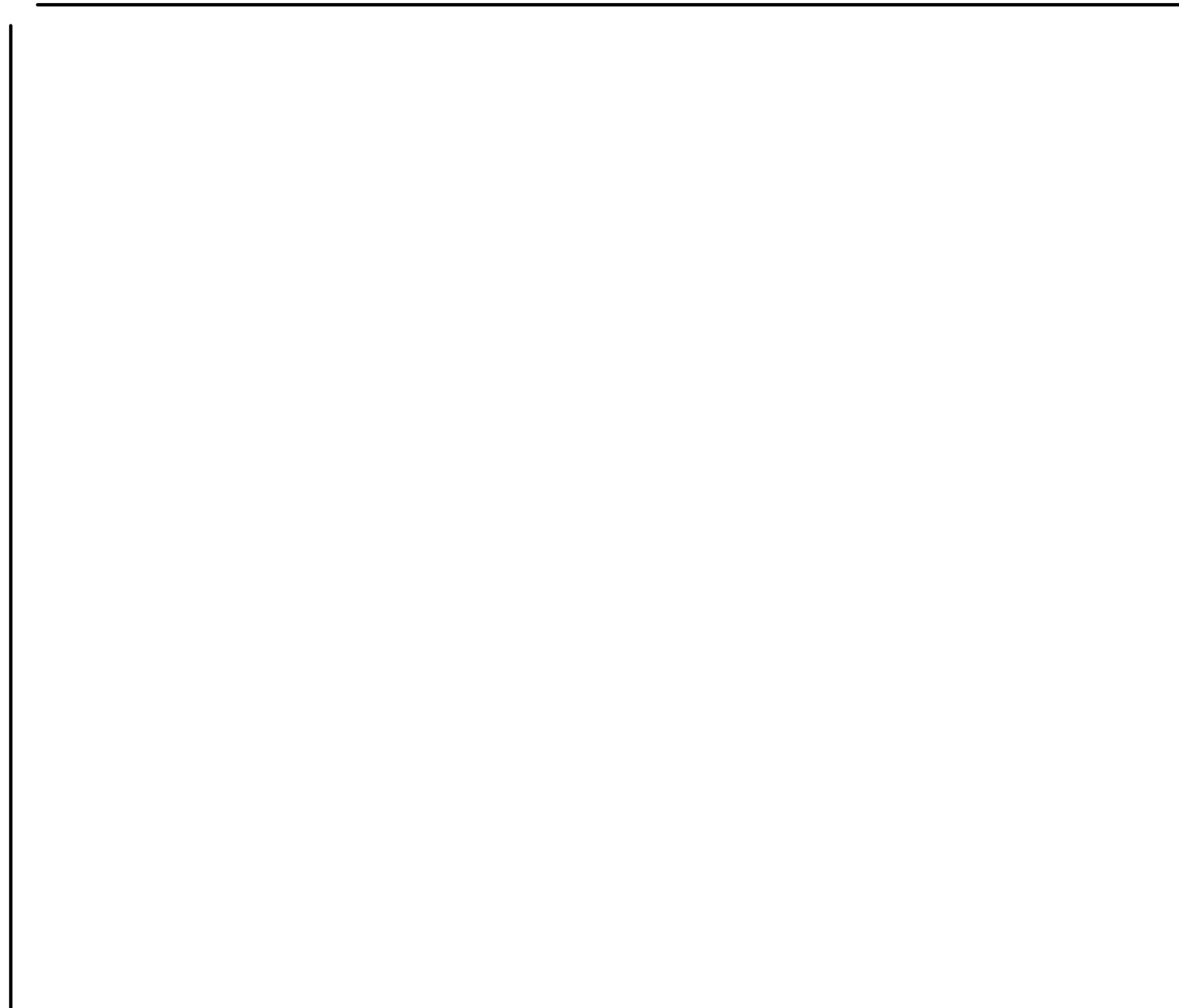
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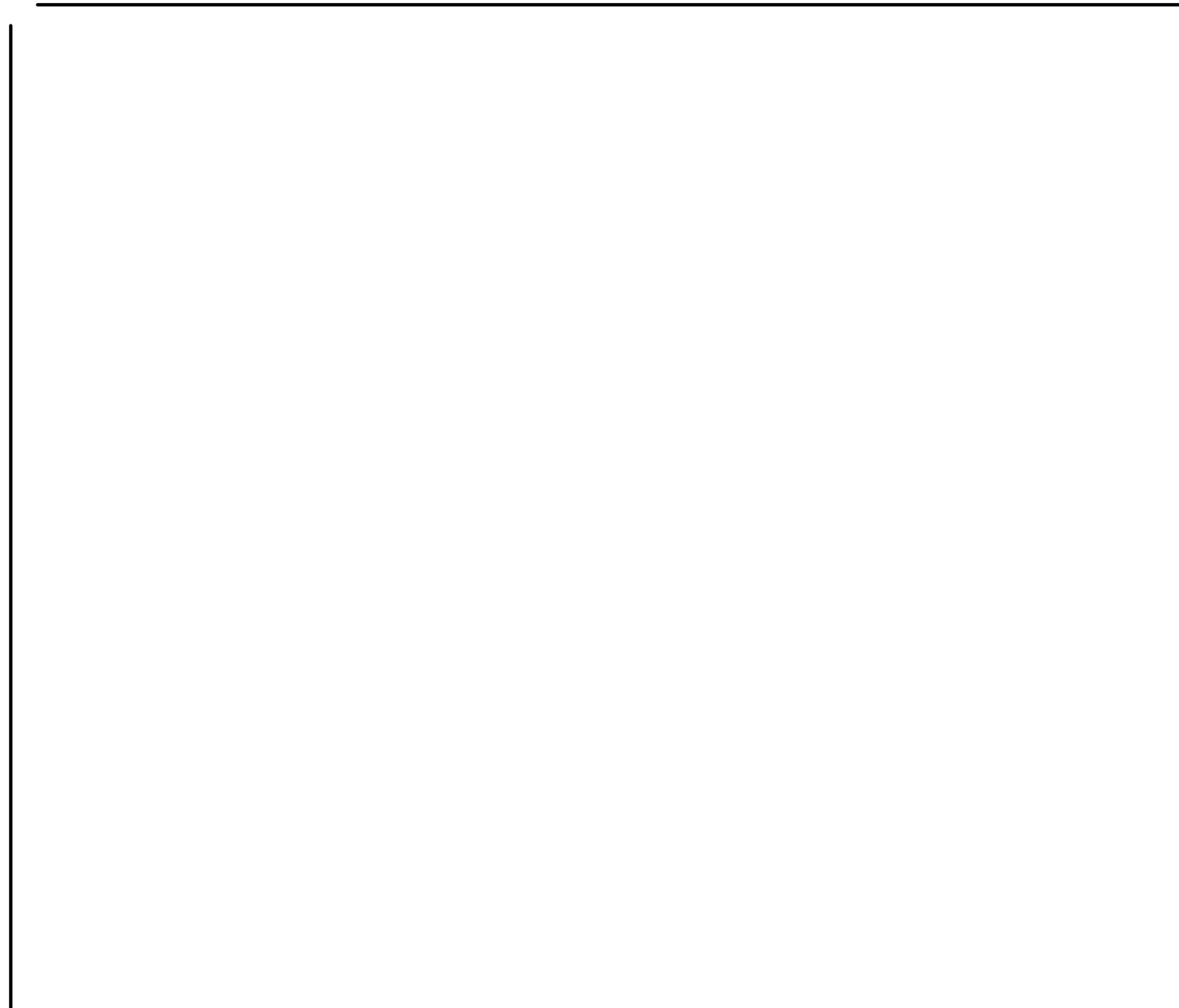
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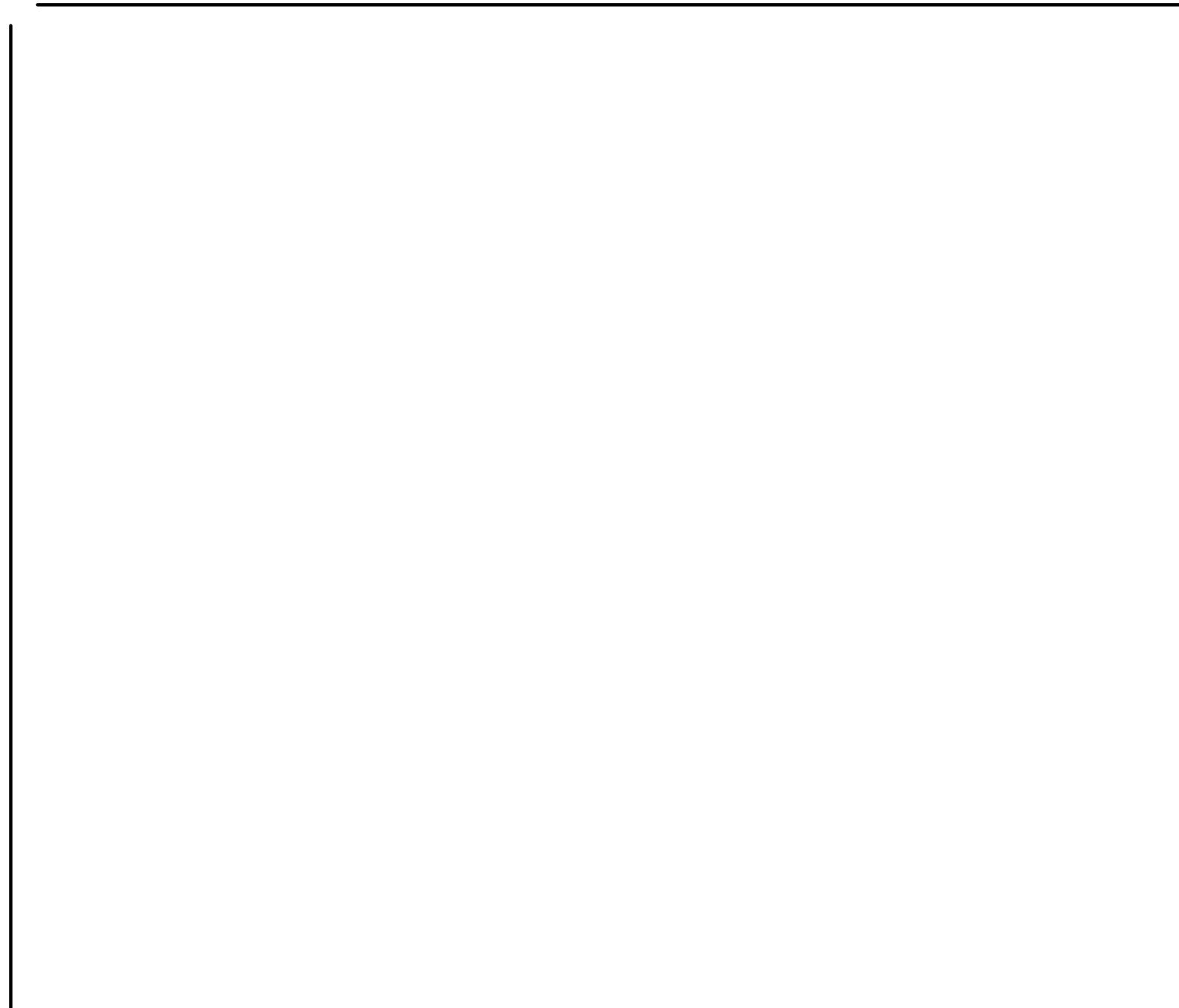
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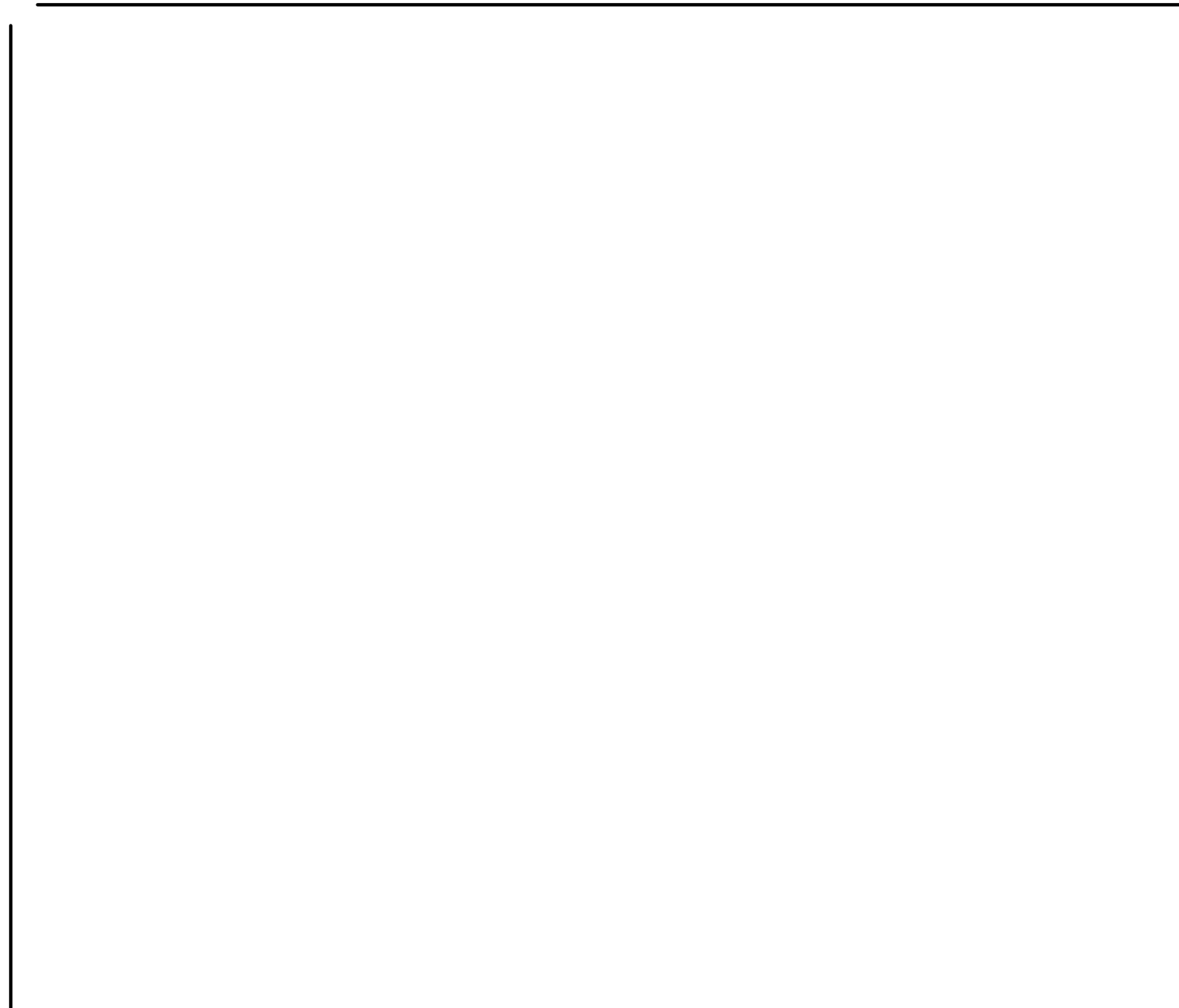
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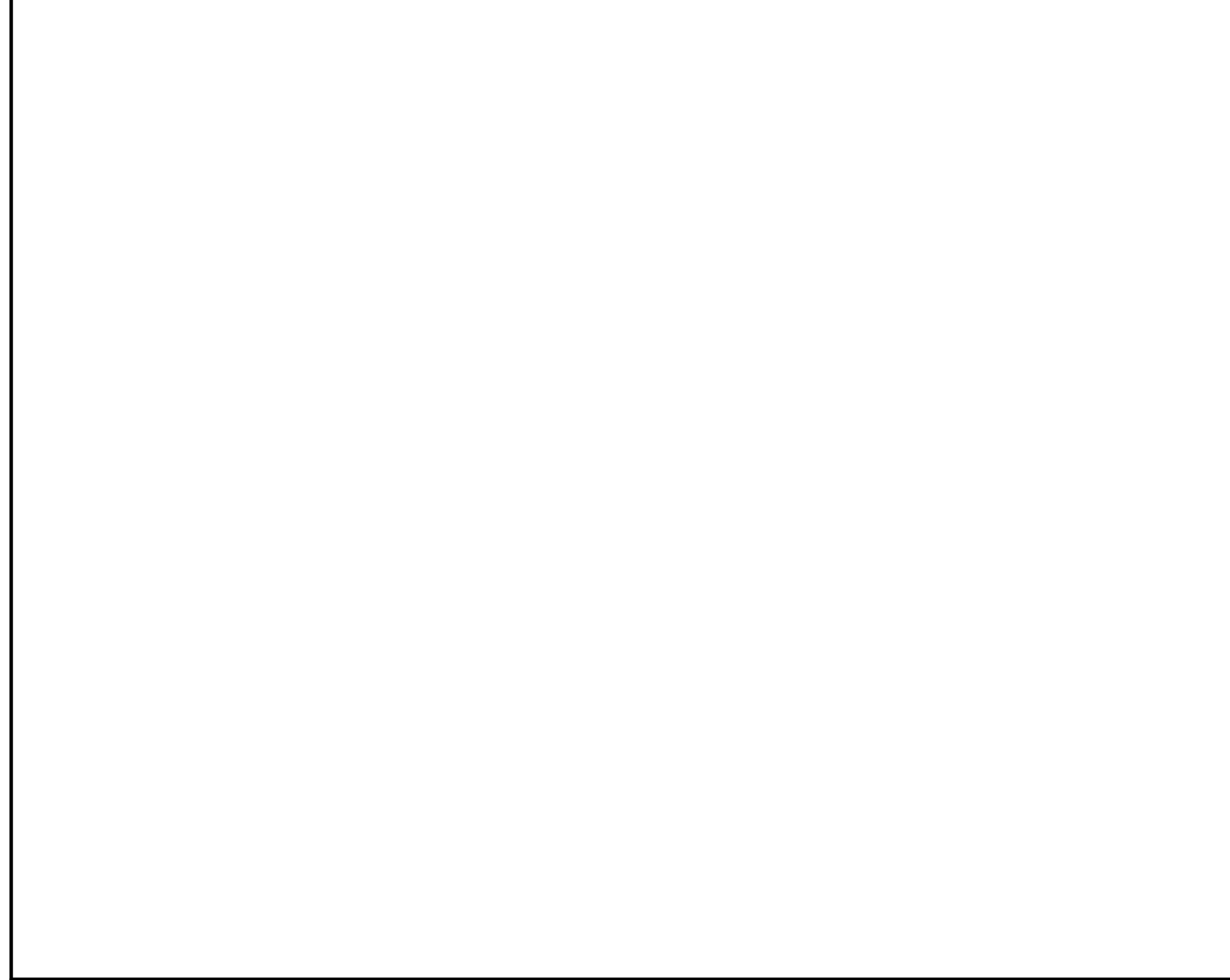
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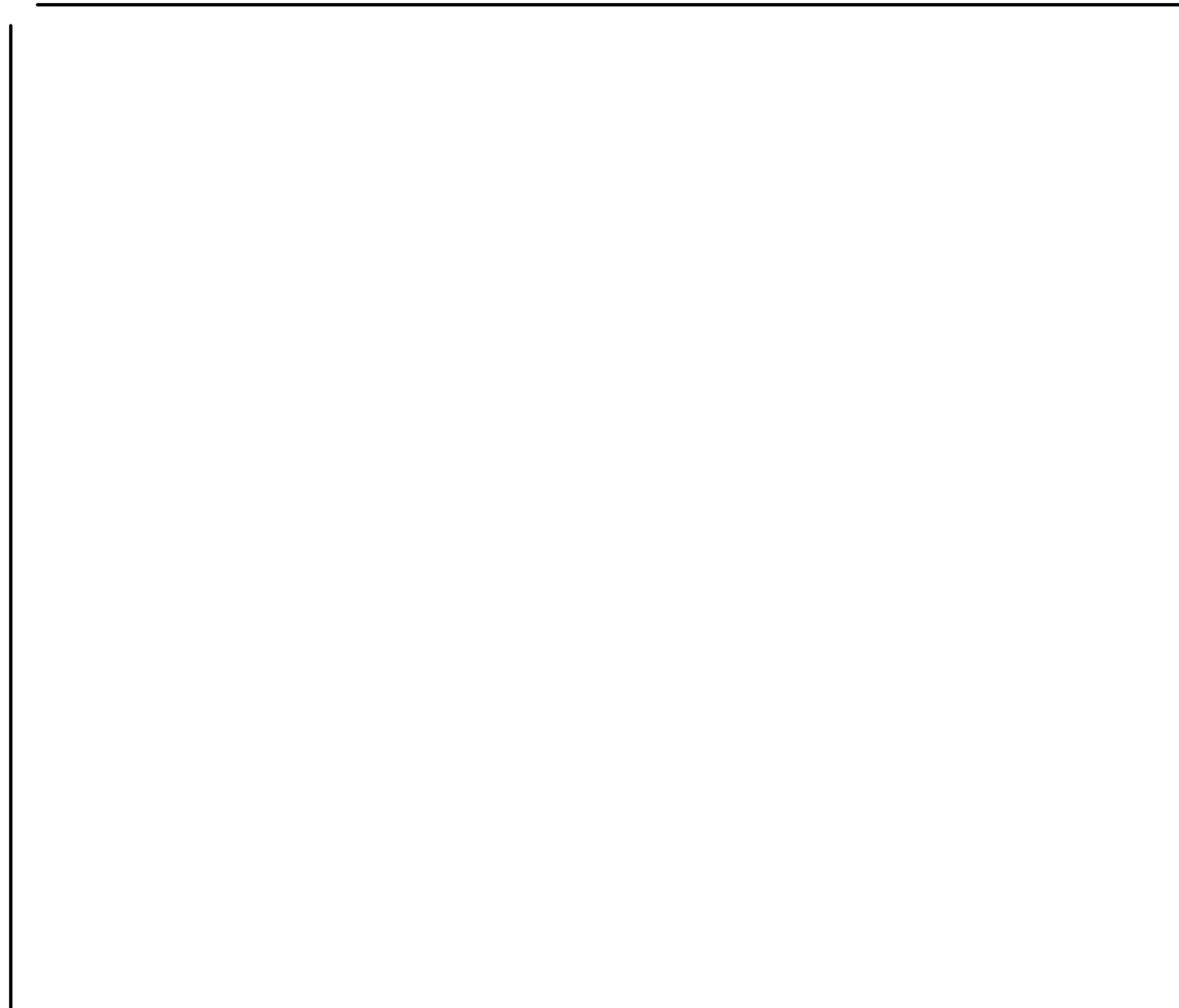
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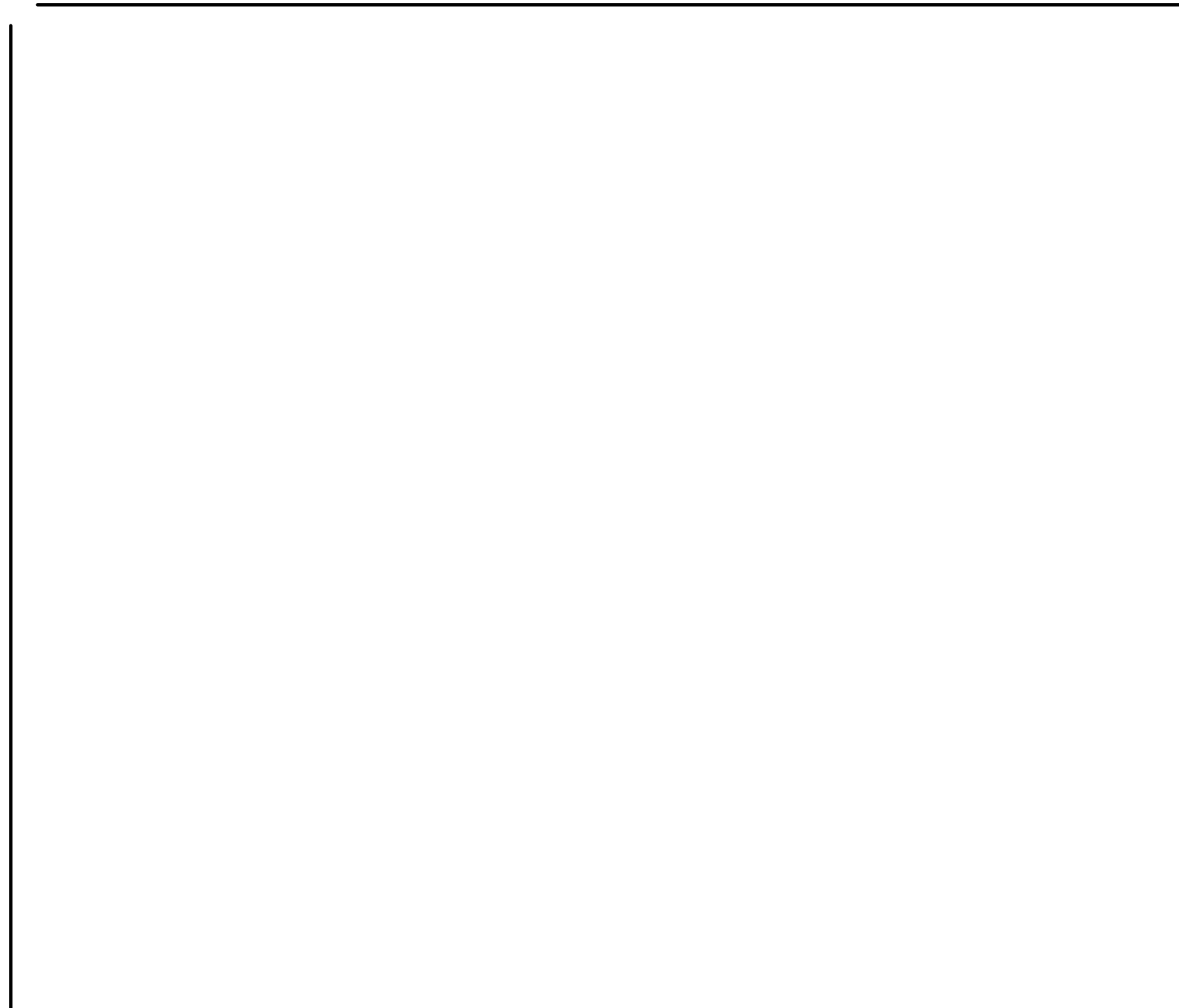
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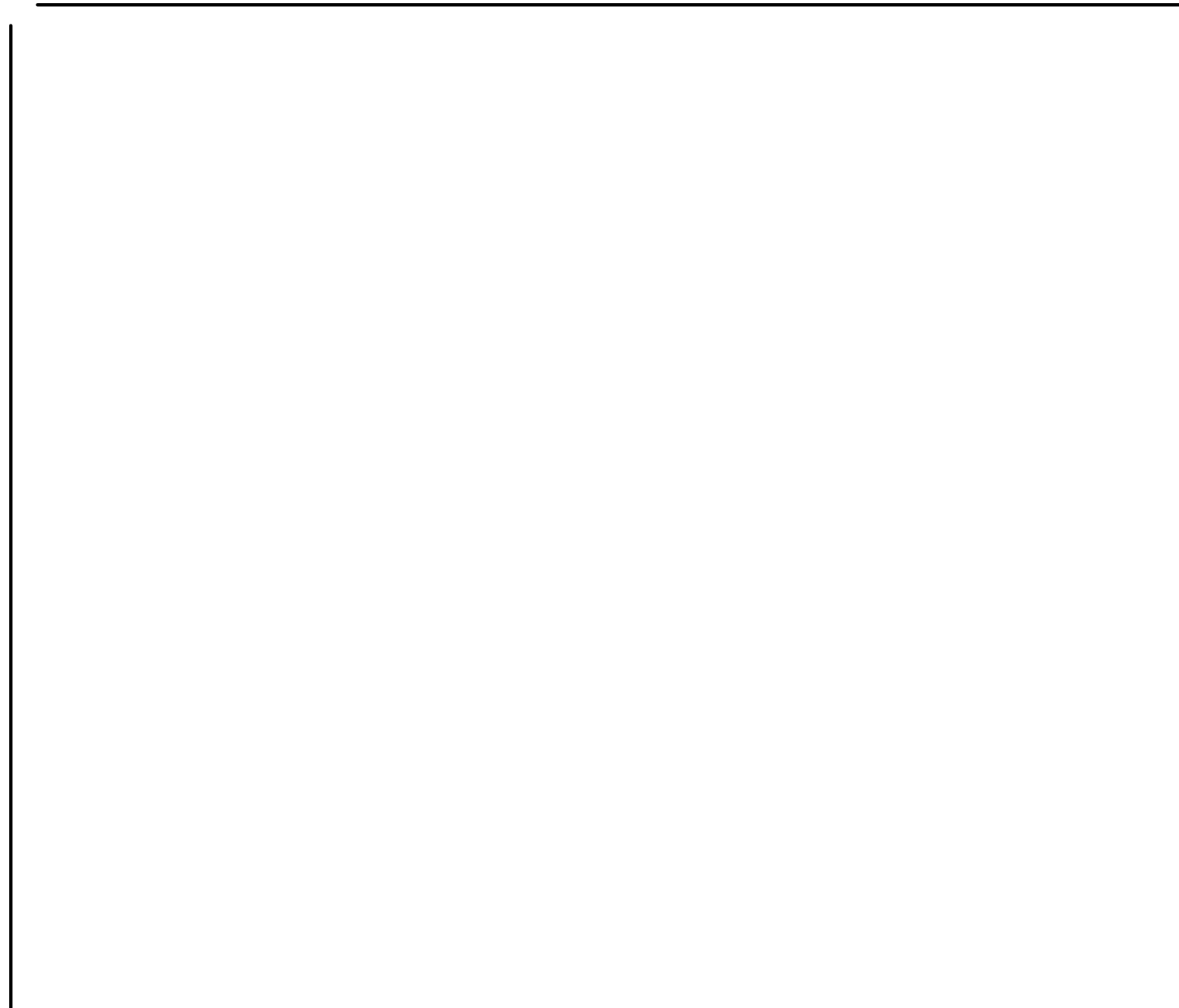
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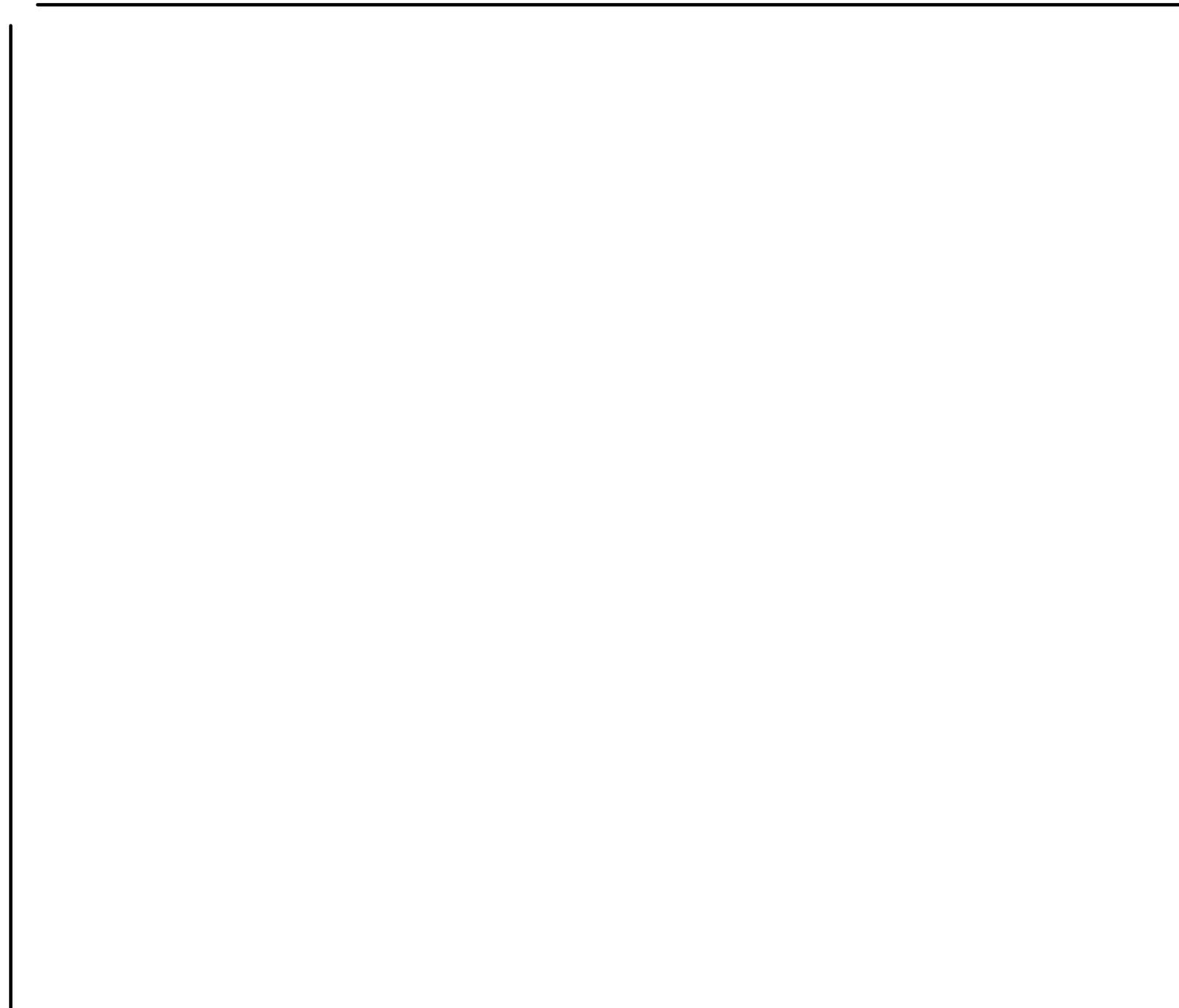
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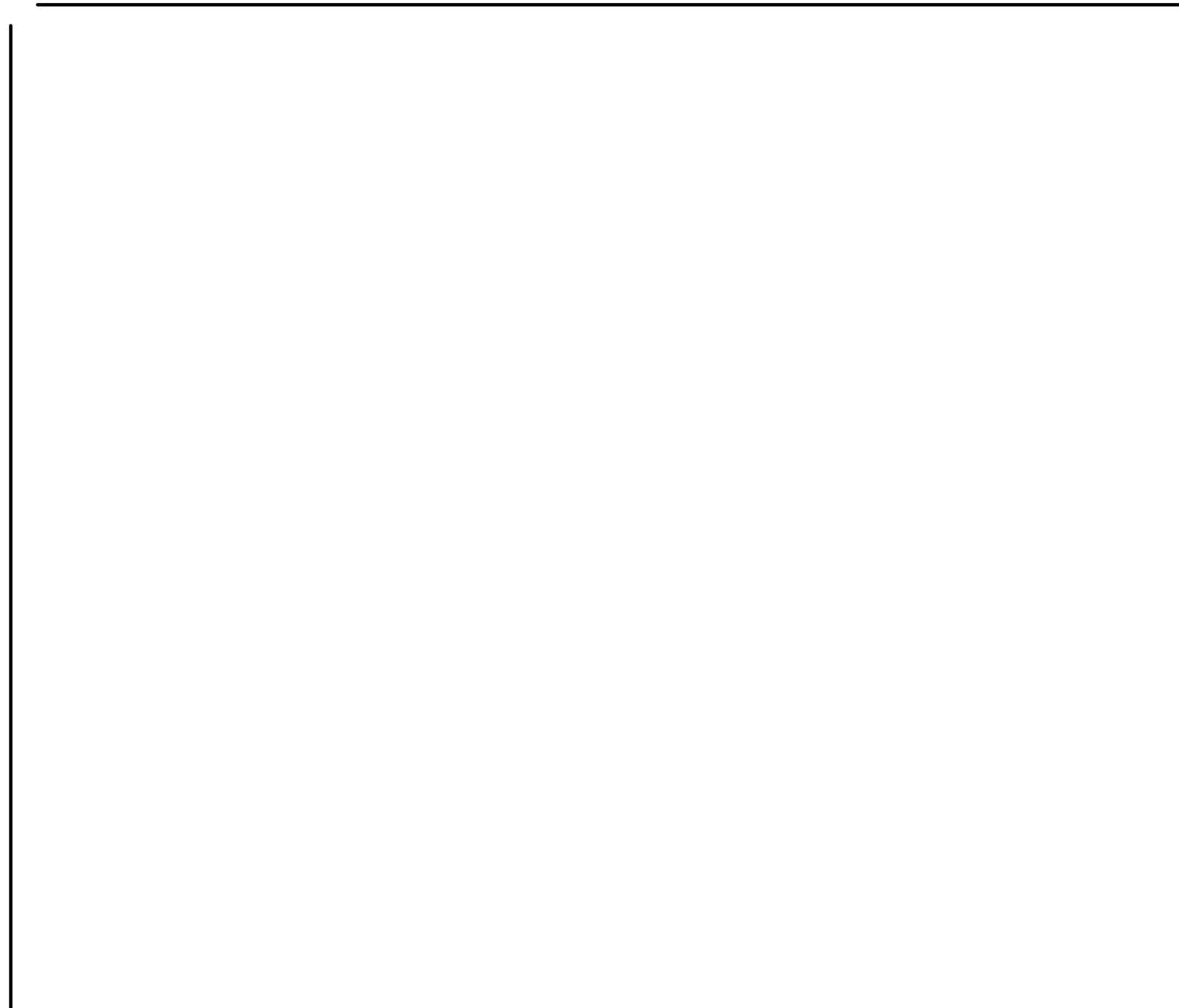
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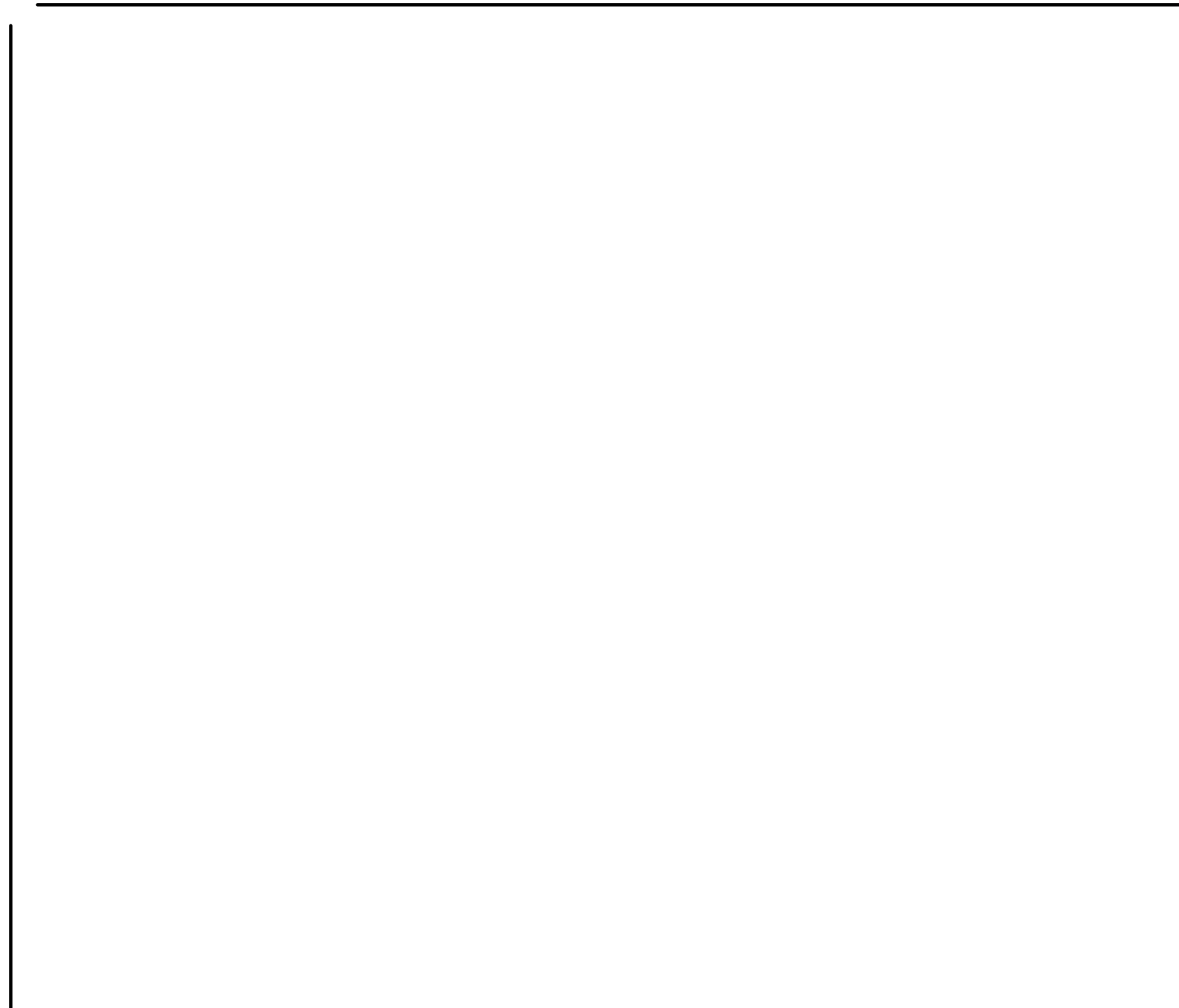
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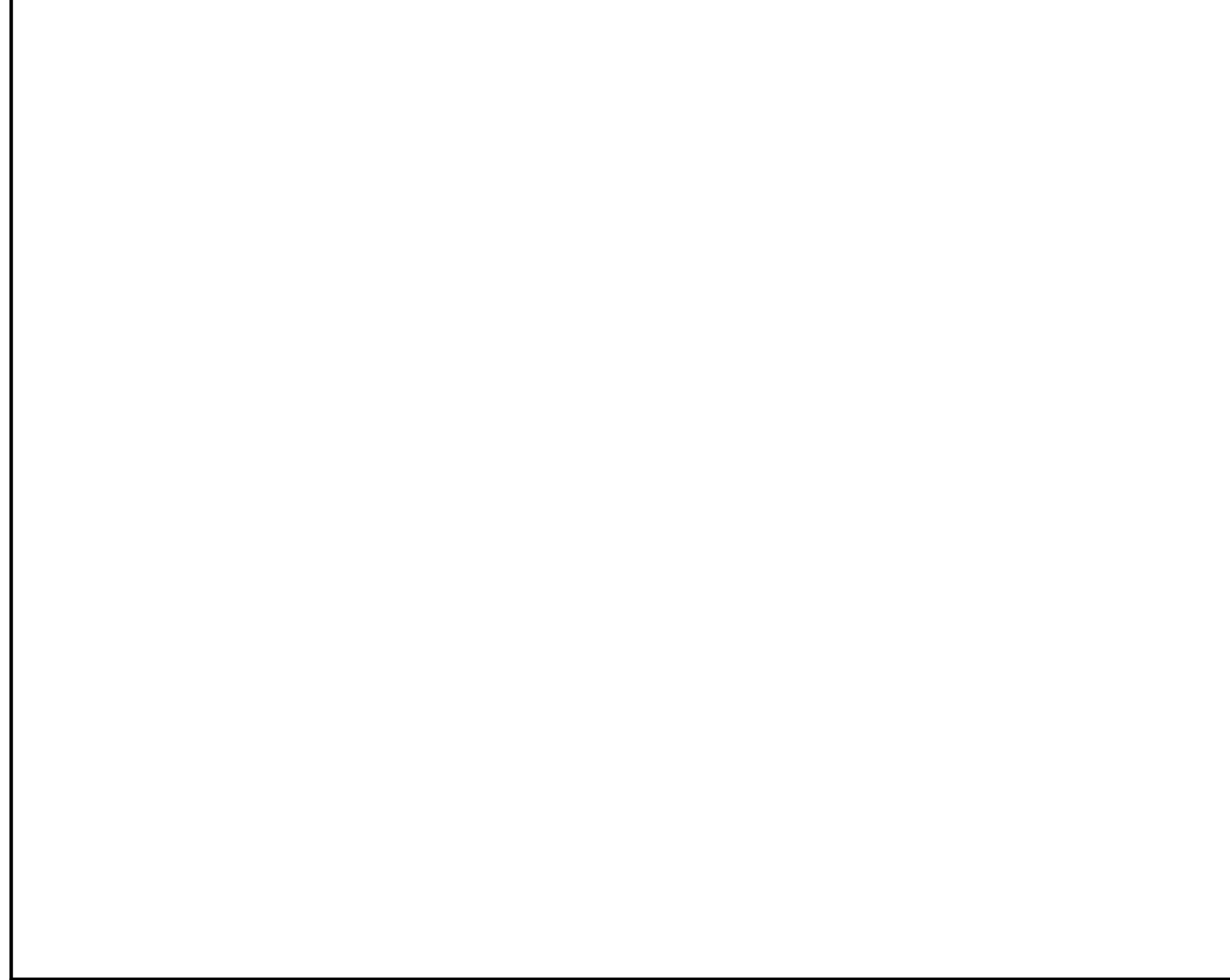
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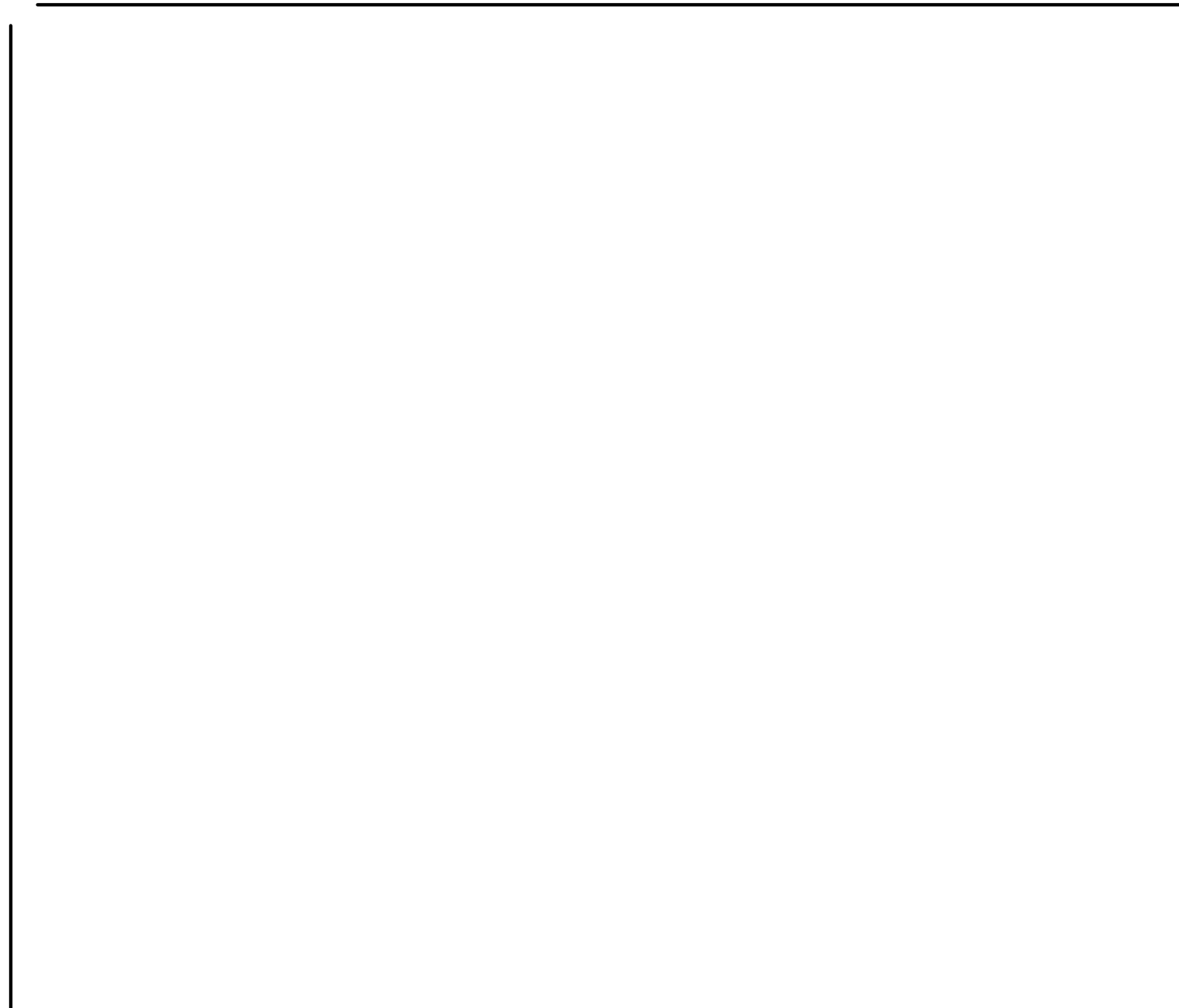
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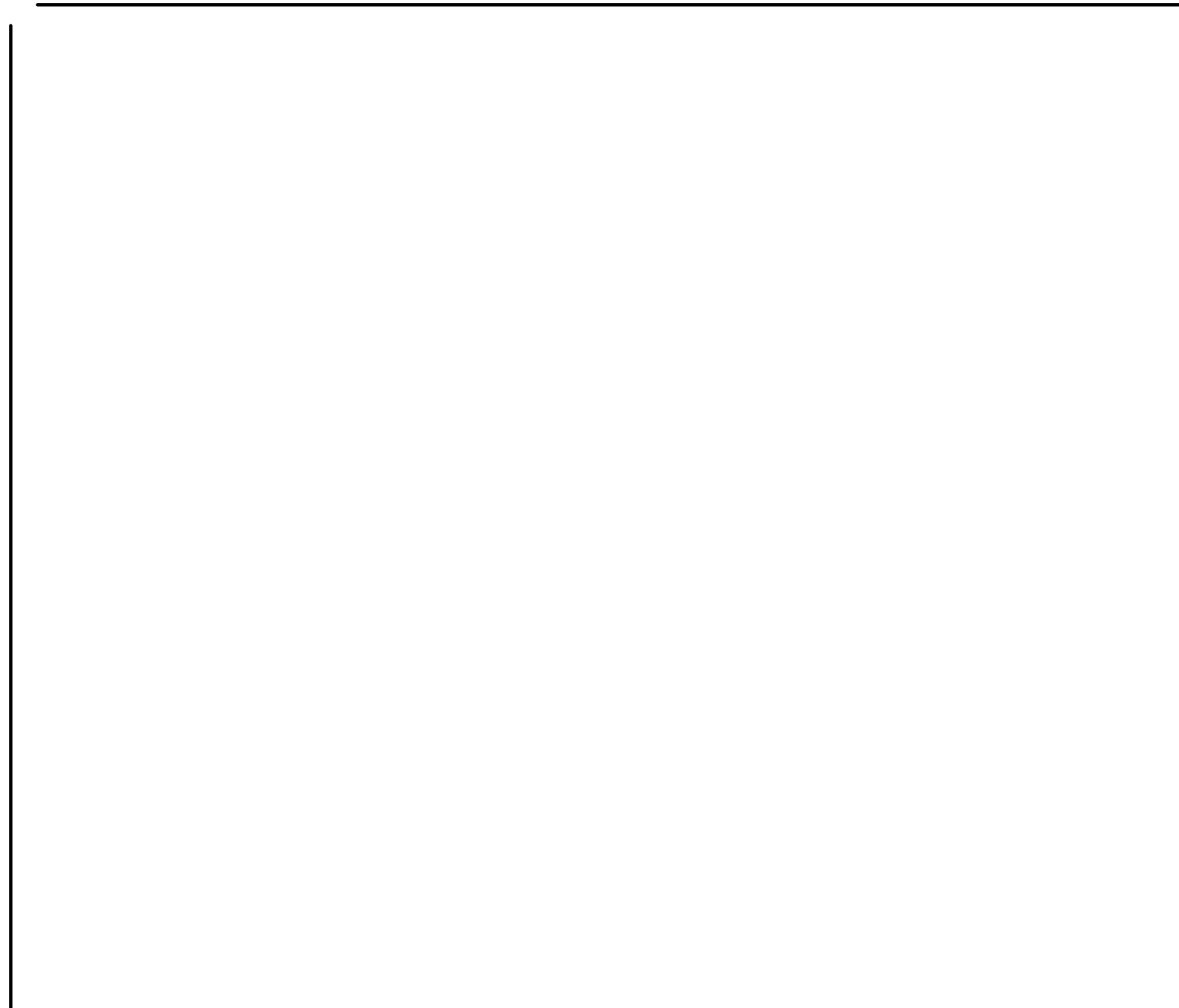
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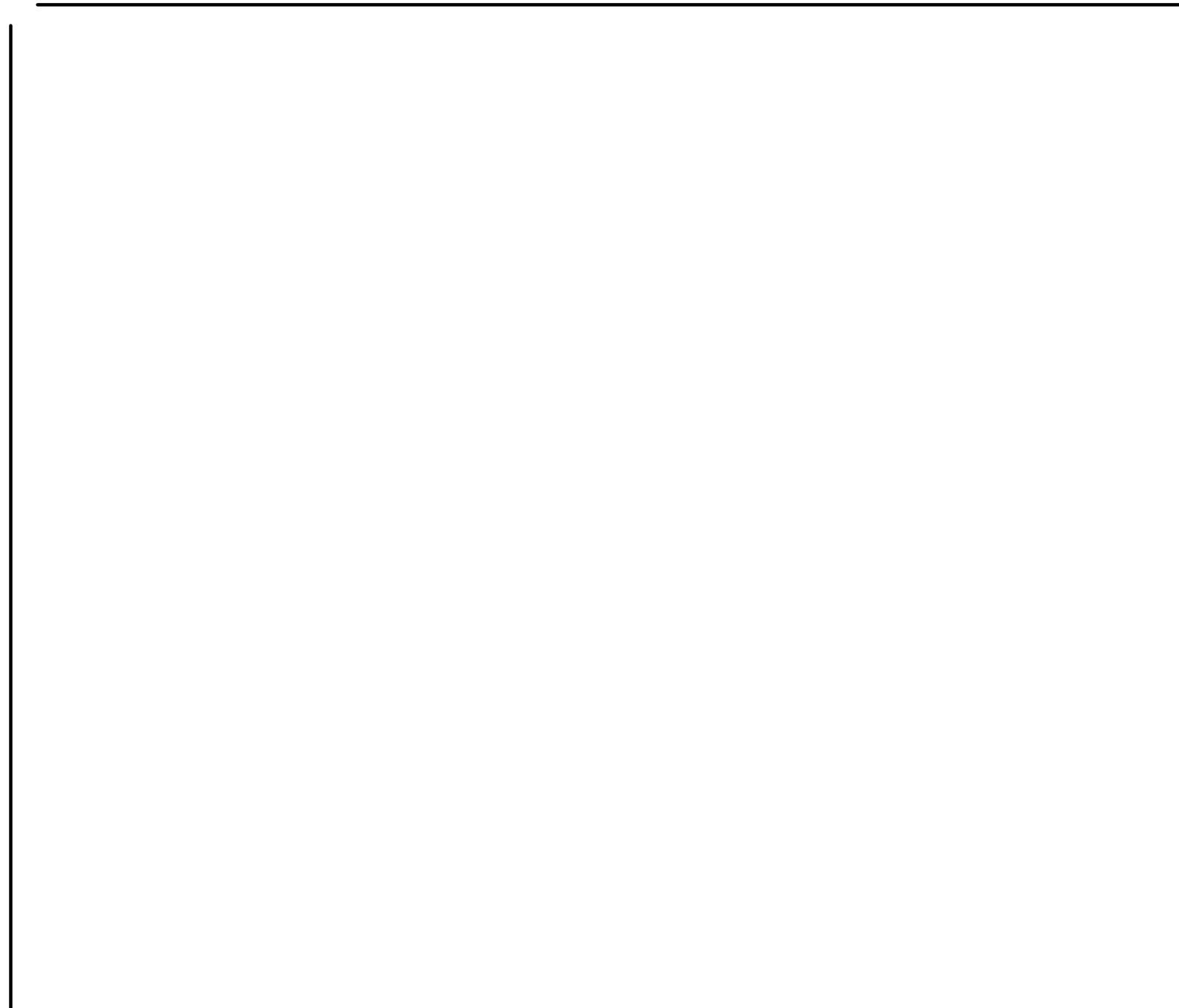
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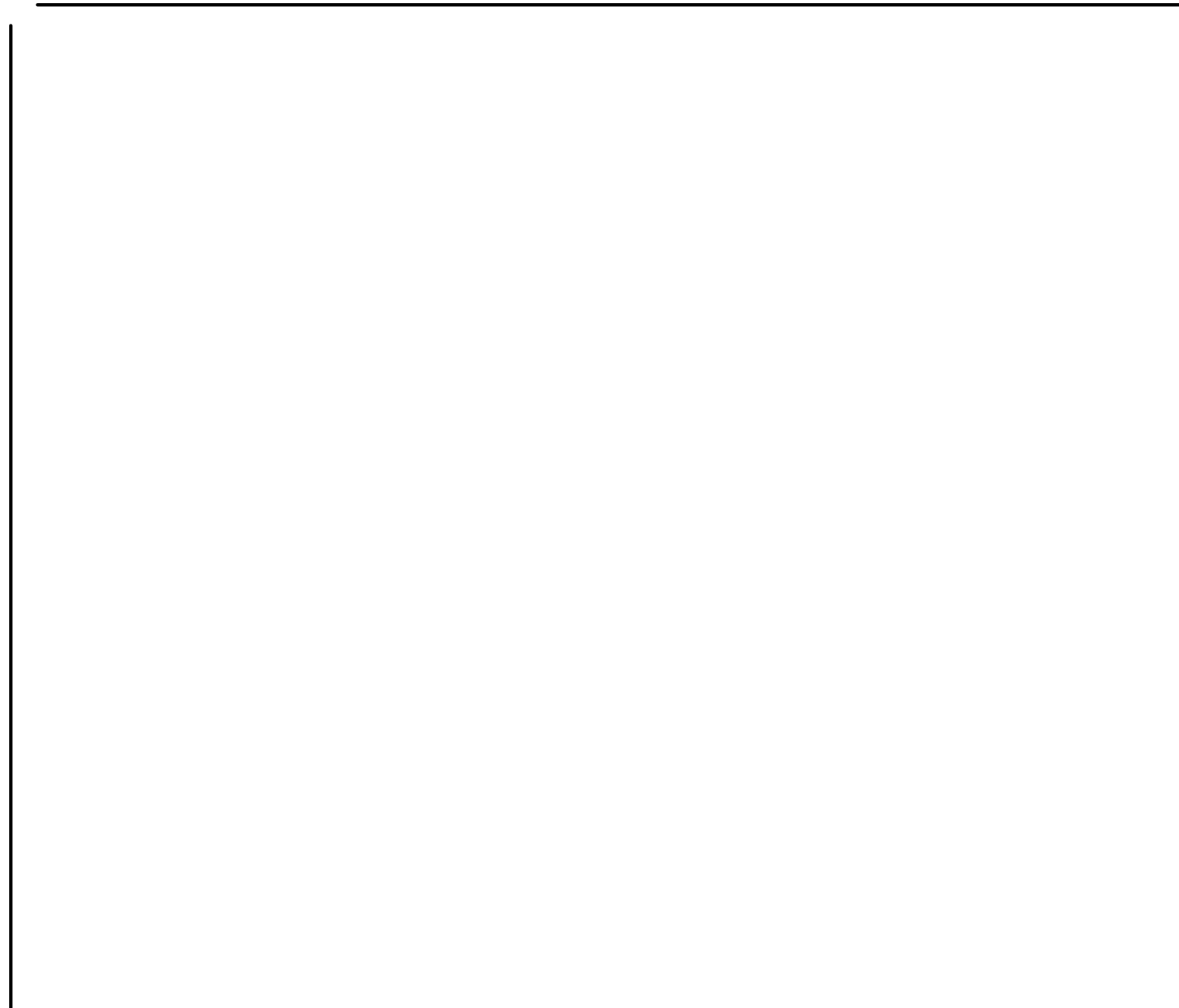
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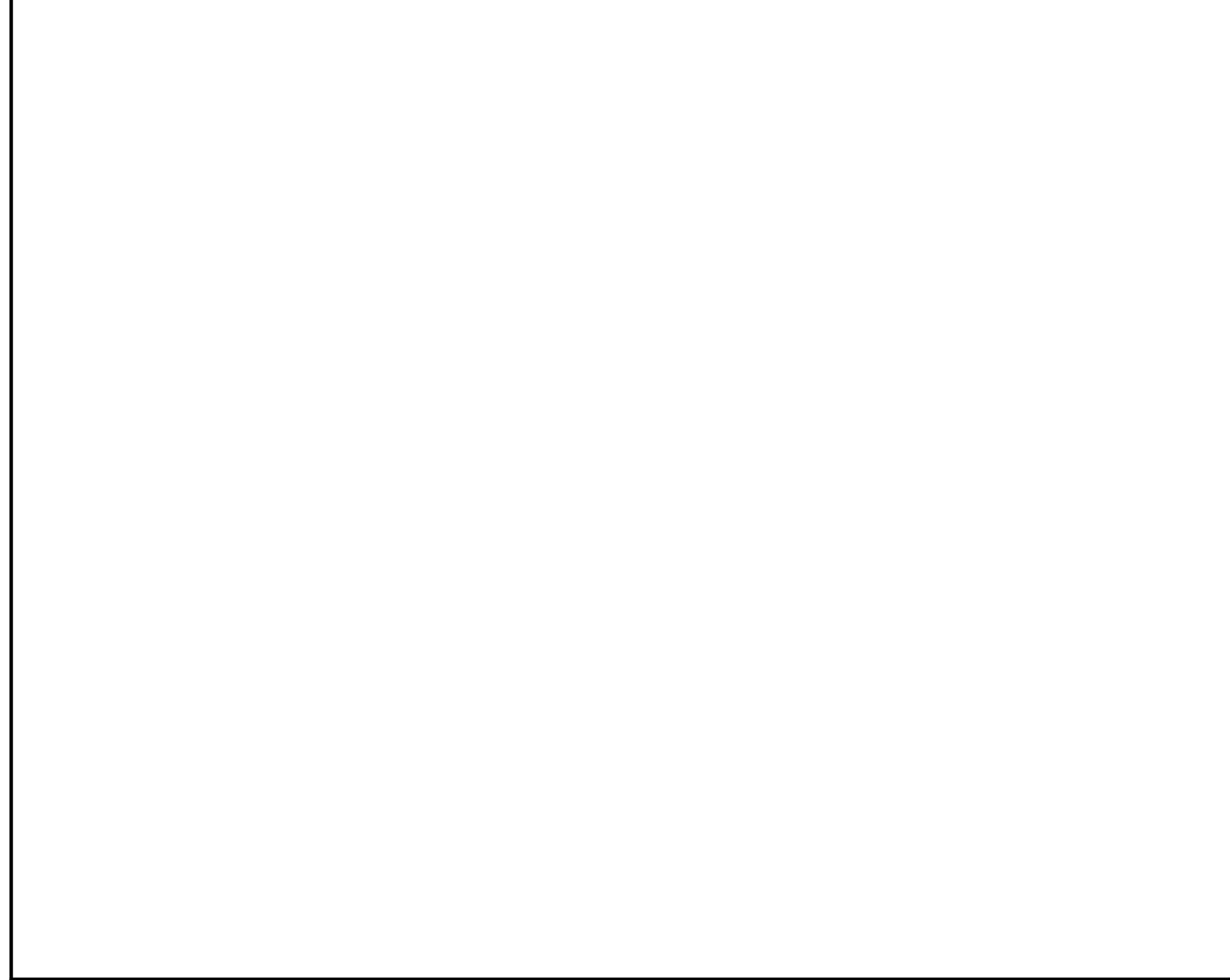
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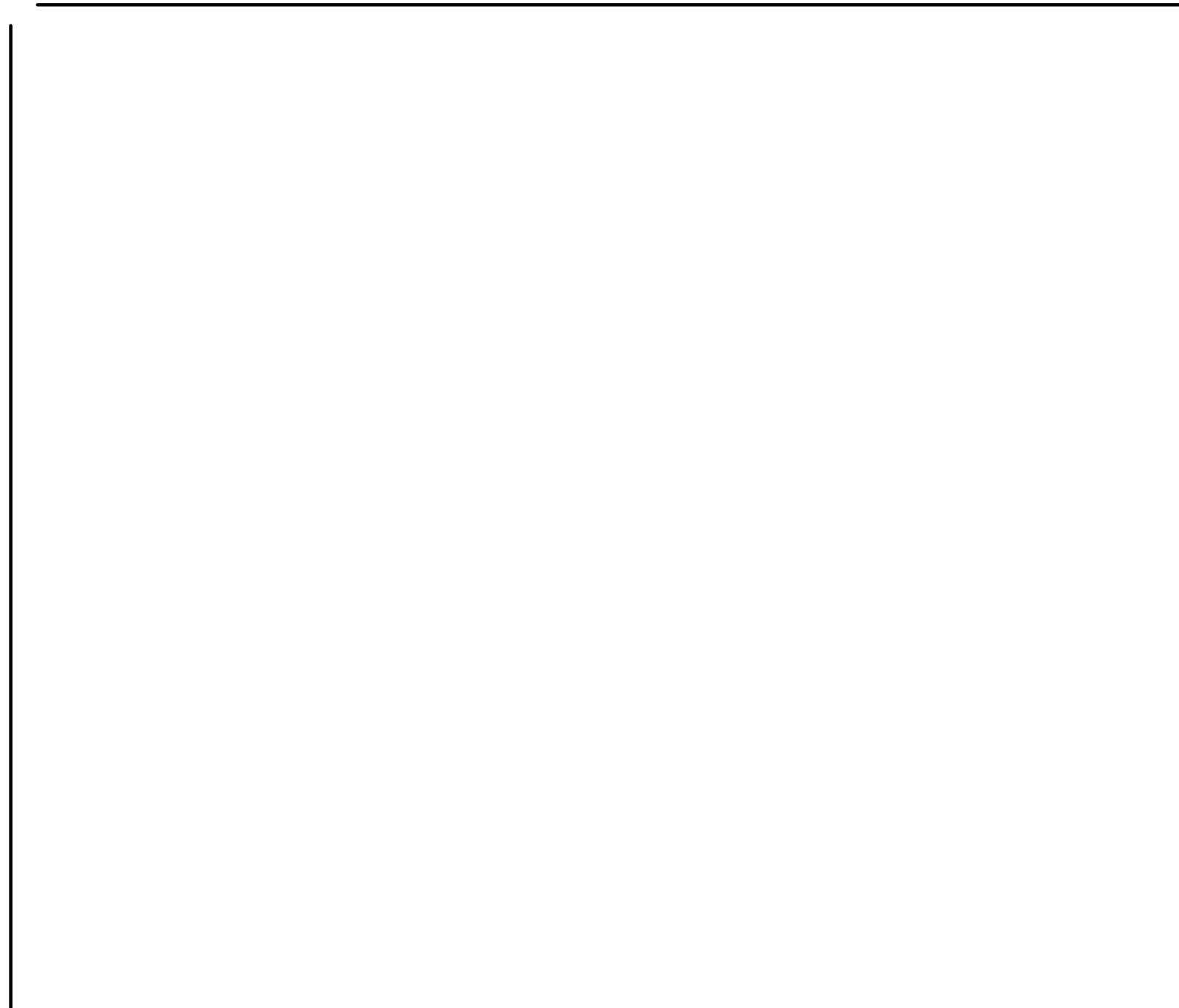
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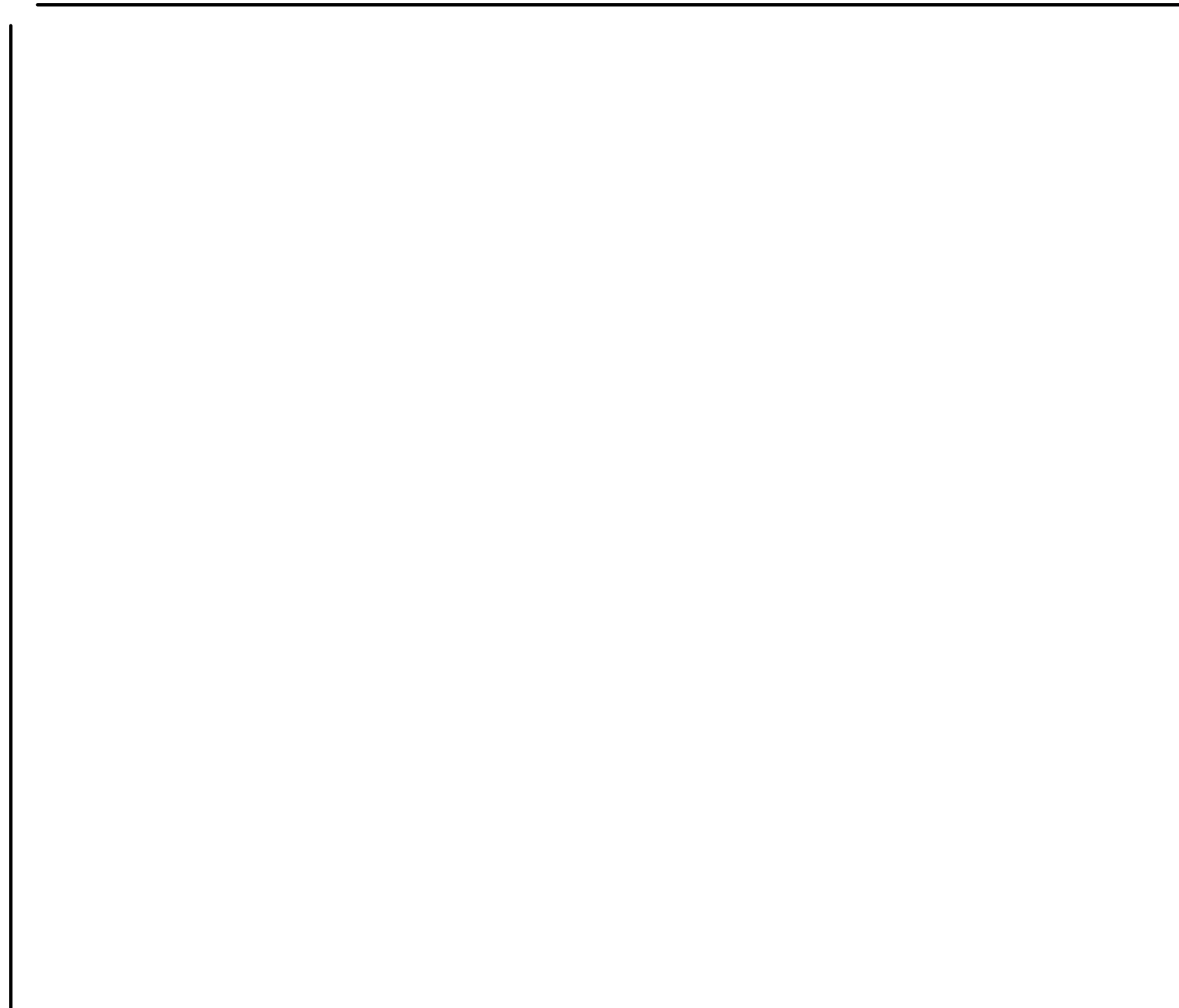
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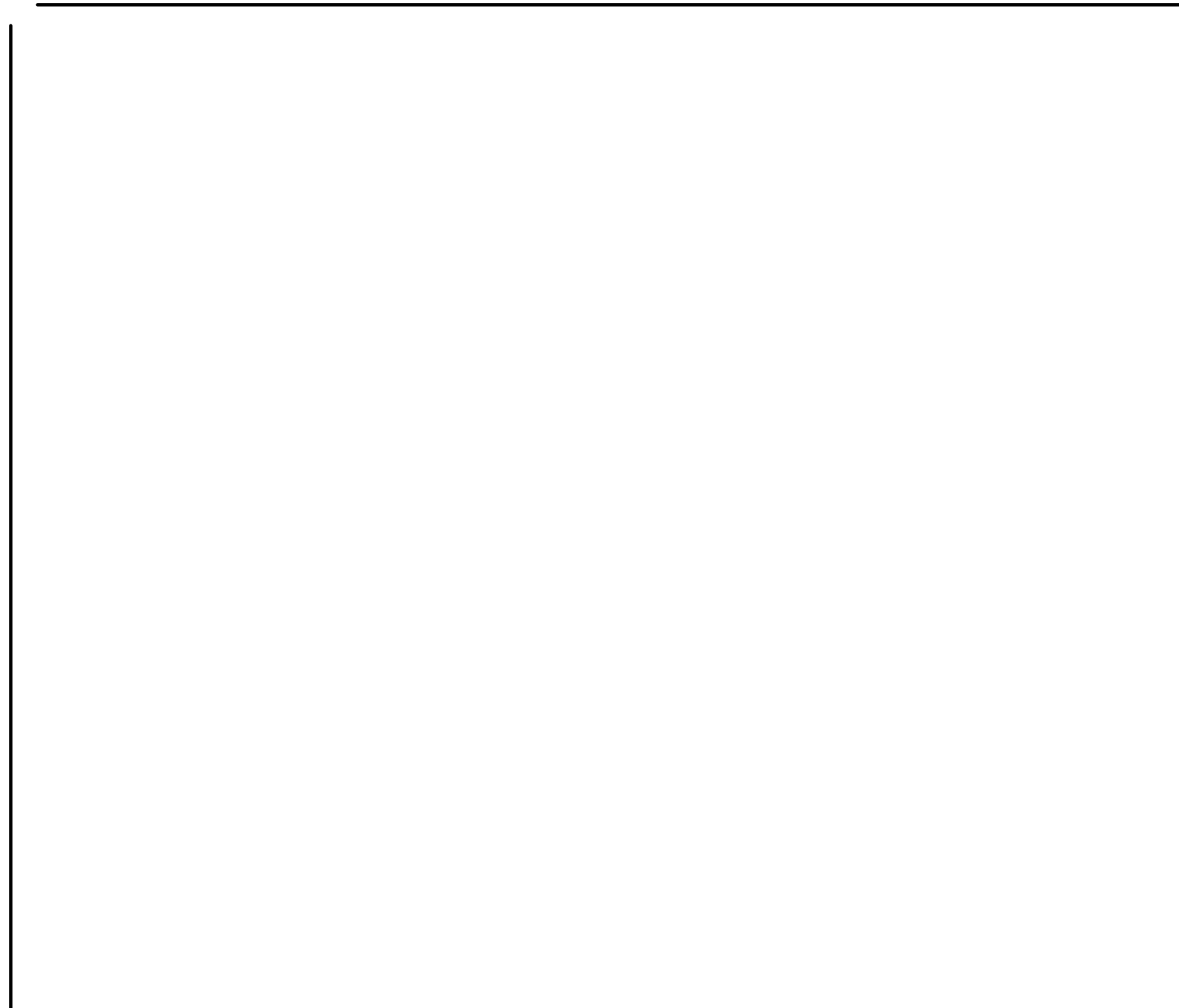
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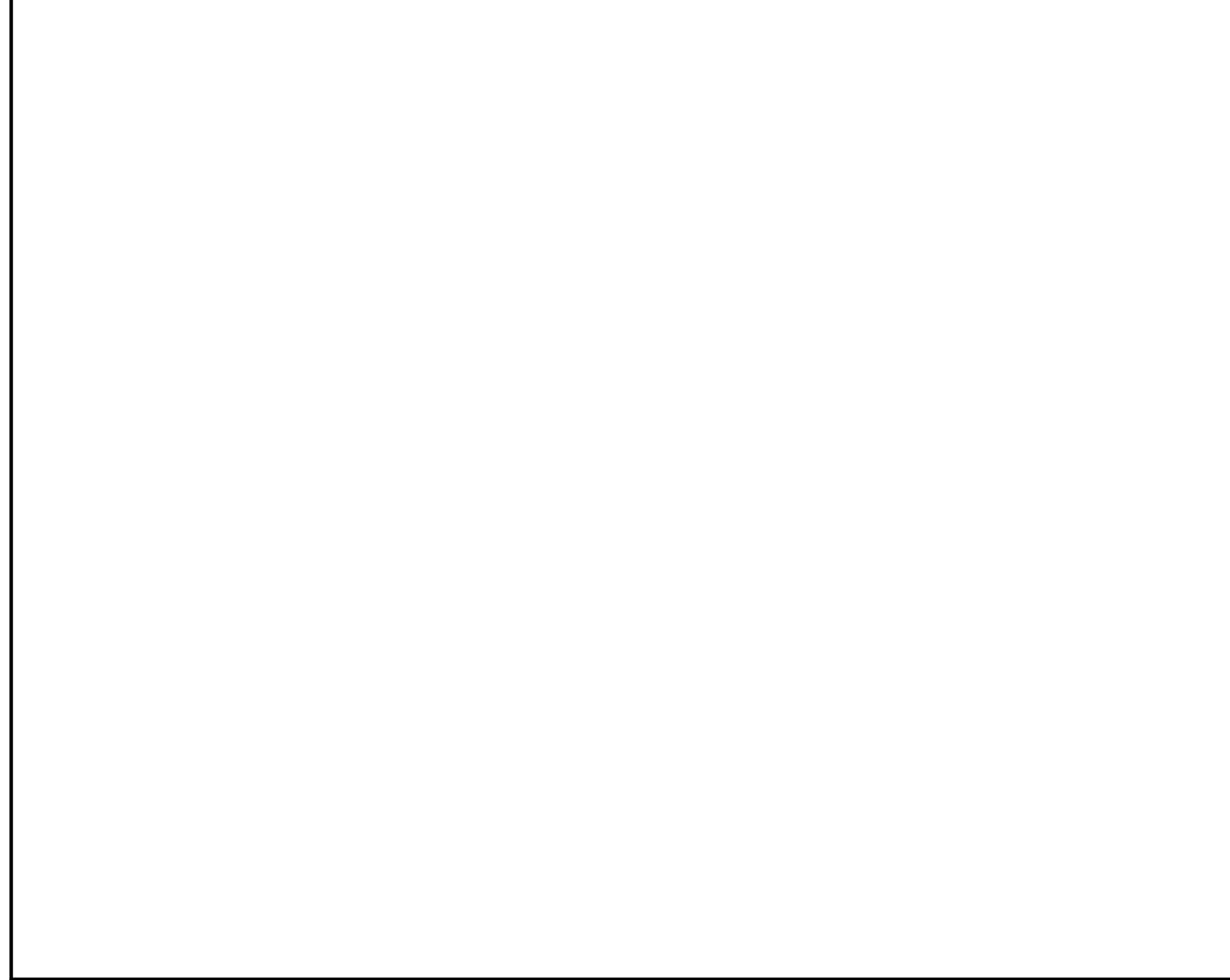
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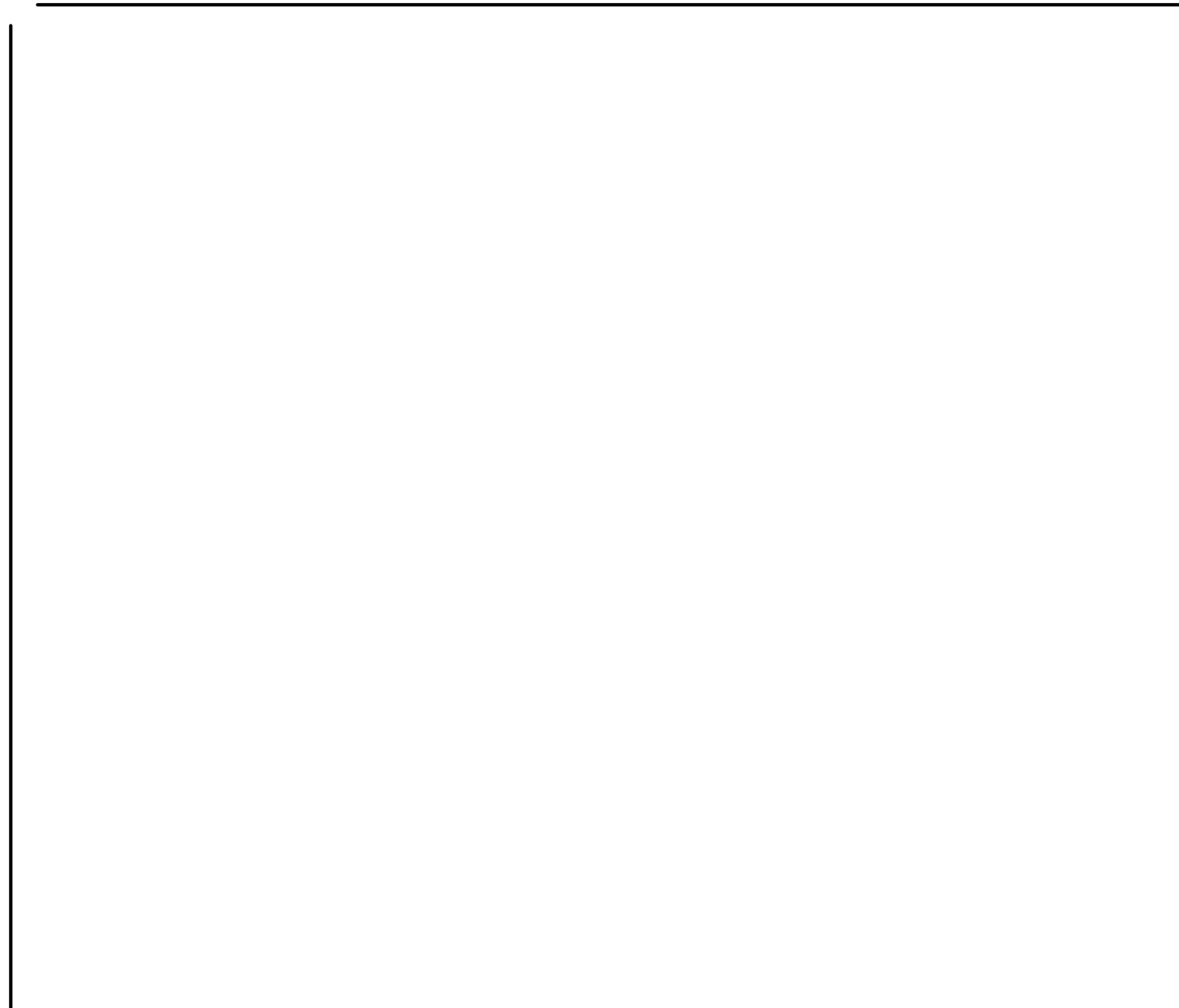
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