

WESTGATE PLAZA ACE HARDWARE

II-B M

Alan J. Plutowski
ARCHITECT
4125 Lakeland Ave N., Suite 200
Minneapolis, Minnesota 55422
Phone: 763-533-7171

BUILDING REMODELING
3401 S. 84TH STREET, OMAHA, NE 68124

**LSC
2012**

**IFC
2012**

**Submit Fire Alarm Plans
To F.P.B. For Approval
Prior To Installation.**

**ALL VALVES CONTROLLING THE WATER
SUPPLY FOR AUTOMATIC SPRINKLER
SYSTEMS AND WATER FLOW SWITCHES
SHALL BE ELECTRONICALLY SUPERVISED.
APPROVED AUDIBLE ALARMS SHALL BE
PROVIDED ON THE EXTERIOR OF THE
BUILDING. AS PER SECT. 903.4 AND
903.4.2 OF THE I.F.C.**

**KNOX
BOX**

**HIGH PILESTORAGE
SHALL COMPLY WITH
CHP 32 IFC 2012**

PROJECT DATA

NAME:	ACE HARDWARE BUILDING REMODELING S. 84TH STREET OMAHA, NE 68124	INTERIOR FINISHES: IBC 903.13	OCCUPANCY: M	STAIRS, RAMPS, EXIT PASSAGEWAYS: B	CORRIDORS FOR EXIT ACCESS: C	ROOMS/ENCL. SPACES: C
COUNTY:	DOUGLAS COUNTY	OCCUPANCY SEPARATIONS: (IBC 903.4)		BUILDING IS NONSEPARATED.		
CLIMATE ZONE:	4A	BUILDING ELEMENT FIRE RESISTANCE RATING TYPE I-B:		TABLE 601 602 (EXTERIOR WALLS)		
FLOOD ZONE:	LOW RISK CLASSIFICATION			A. STRUCTURAL FRAME SUPPORT ROOF ONLY	0 HR	
PROJECT DESCRIPTION:	A COMBINATION OF SIX COMMERCIAL TENANT SPACES AND REMODELING FOR A NEW RETAIL TENANT			B. BEARING WALLS EXTERIOR	0 HR	NO CHANGE
BUILDING:	EXISTING: GROUPS B, A-2, I-M OCCUPANCIES PROPOSED ADDITION: M - MERCANTILE TYPE II-B CONSTRUCTION, NONSEPARATED FIRE SPRINKLERED			C. NONBEARING WALLS ROOFS	0 HR	1 HR (LESS THAN 10') 0 HR (GREATER THAN 10')
APPLICABLE CODE:	2010 INTERNATIONAL BUILDING CODE (IBC) 2012 INTERNATIONAL MECHANICAL CODE (IMC) OMAHA MUNICIPAL CODE 2010 OMAHA PLUMBING CODE (OPC) 2010 INTERNATIONAL EXISTING BUILDING CODE (IEBC) 2011 NATIONAL ELECTRICAL CODE (NEC) 2012 INTERNATIONAL FIRE CODE (IFC) 2012 LIFE SAFETY CODE	CHANGE OF USE SHALL REQUIRE NEW CERTIFICATE OF OCCUPANCY.		D. NONBEARING INT. WALLS EXCEPT AS REQUIRED ELSEWHERE	0 HR	
COMPLIANCE METHOD (IEBC 301.3):	WORK AREA METHOD (IEBC 301.3.2) ALTERATION LEVEL 2 IN ACCORDANCE WITH CH. 8	OCCUPANT LOADS:		E. FLOOR CONSTRUCTION INCL. SUPPORT BMS/JOISTS	0 HR	
REHABILITATION WORK CLASSIFICATION:	RENOVATION WITH PARTIAL CHANGE OF USE (A-2, B, M TO M)	RETAIL 16,092.04 / 30 = 536		F. ROOF	0 HR	
BASIC ALLOWABLE BY OCCUPANCY GROUPS: (IBC 504.3, 504.4, 506.2)	TYPE: M - MERCANTILE ALLOWABLE HEIGHT: 55 FEET ABOVE GRADE PLANE, 2 STORIES (19, 1 STORY) ALLOWABLE AREA: 50,000 SF/FLOOR	STORAGE 4,699.23 / 300 = 16				
ALLOWABLE AREA: (IBC 507.4)	THERE IS NO HIGH-PILED STORAGE.	UTILITY 394.06 / 300 = 1				
BUILDING HEIGHT AND AREA:	UNLIMITED AREA ALLOWED IN 1-STORY, GROUP B, F, M, AND S OCCUPANCIES, ANY CONSTRUCTION TYPE THAT ARE SPRINKLERED AND SURROUNDED BY 60' OPEN SPACE.	OFFICE 530.53 / 150 = 4				
EXISTING BUILDING HEIGHT:	19'-0" HIGHEST POINT	RR/MOP 265.31				
EXISTING BUILDING AREA:	62,010 SF	TOTAL 21,970 S.F. 551 OCC.				
REMODELING OF EXISTING TENANT AREA:	21,970 NSF					
ALLOWABLE BUILDING DATA: (IBC 506.3 FRONTAGE INCREASE)	(1,672 / 1,036 - 0.25) / 30 = 2.72 AREA FACTOR INCREASE 30,000 x 2.72 = 136,000 30,000 + 136,000 = 166,000 SF TOTAL ALLOWABLE AREA	EXIT UNIT CALCULATIONS:				
AUTOMATIC SPRINKLER AND STANDPIPE PROTECTION:	THIS BUILDING IS EQUIPPED WITH A PARTIAL AUTOMATIC SPRINKLER SYSTEM. THE SYSTEM WILL BE FULL EXPANDED AND COMPLETED.	1. MAXIMUM TRAVEL DISTANCE TO EXIT - M: 300' FROM ANY POINT, (IBC TABLE 1017.2)				
BUILDING SETBACKS:	EXISTING TO REMAIN	2. MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE: 100' (IBC TABLE 1006.2.1)				
		3. EGRESS WIDTH 0.2 PER OCCUPANT, TOTAL OCCUPANTS 551 X 0.2 = 111' REQUIRED: AMOUNT PROVIDED 204'				
		FLUMING FIXTURES: (IBC 2402.1)				
		REQUIRED PROPOSED				
		WATER CLOSETS: (1:300)	1	4		
		LAVATORIES: (1:750)	1	2		
		DRINKING FOUNTAINS: (1:100)	1	1 (HIGH-LOW)		
		SERVICE SINK:	1	1		
		ROOF ASSEMBLY/FIRE GLASS: (IBC 1505.1)				
		MINIMUM CLASS C ASSEMBLY IS REQUIRED.				

SHEET SCHEDULE

TITLE SHEETS	ARCHITECTURAL	MECHANICAL DESIGN / BUILD
T1-0 TITLE SHEET & PROJECT DATA SPECIFICATIONS	A2-1 DEMOLITION PLAN & NOTES A3-1 FLOOR PLAN A3-2 ROOF PLAN & DETAILS A3-3 ENLARGED PLAN A4-1 REFLECTED CEILING PLAN A5-1 EXTERIOR ELEVATIONS A6-1 INTERIOR ELEVATIONS A10-1 SCHEDULES, DOOR & FRAME TYPES, WALL TYPES/ASSEMBLIES, DETAILS, ABBREVIATIONS	M1.1 FIRST FLOOR PLAN - MECHANICAL M1.2 ROOF PLAN - MECHANICAL M2.1 MECHANICAL DETAILS AND PLUMBING PLANS M3.1 MECHANICAL SCHEDULES M4.1 MECHANICAL SPECIFICATIONS
CIVIL	STRUCTURAL	ELECTRICAL
C0.0 COVER C0.1 REFERENCE PLAN C1.1 TOPOGRAPHICAL SURVEY/DEMOLITION PLAN C2.1 DIMENSION PLAN C3.1 GRADING PLAN C4.1 UTILITY PLAN L1.1 LANDSCAPE PLAN	S1-0 GENERAL STRUCTURAL NOTES S1-1 STRUCTURAL FLOOR PLAN AND NOTE S2-1 STRUCTURAL ROOF PLAN AND SECTIONS	E1-1 FLOOR PLAN - LIGHTING E2-1 FLOOR PLAN - POWER E3-1 FIRST FLOOR LIGHTING AND POWER PLAN

1. ONE SET OF APPROVED PLANS SHALL BE KEPT ON THE JOBSITE AND SHALL BE AVAILABLE TO INSPECTORS AT ALL TIMES.
2. THIS PERMIT DOES NOT GRANT APPROVAL TO VIOLATE ANY ORDINANCE OF THIS JURISDICTION, STATE, OR FED. LAW.
3. A PERMIT MAY BE REVOKED WHENEVER THE PERMIT IS ISSUED IN ERROR OR DUE TO INCORRECT INFORMATION SUPPLIED.
4. THIS PERMIT SHALL NOT PREVENT THE BUILDING OFFICIAL FROM REQUIRING CONSTRUCTION TO BE IN COMPLIANCE WITH ALL APPLICABLE CODES.
5. THIS PERMIT IS VALID FOR 30 MONTHS IF AN INITIAL INSPECTION OCCURS WITHIN 6 MONTHS OF ISSUANCE.

APPROVED

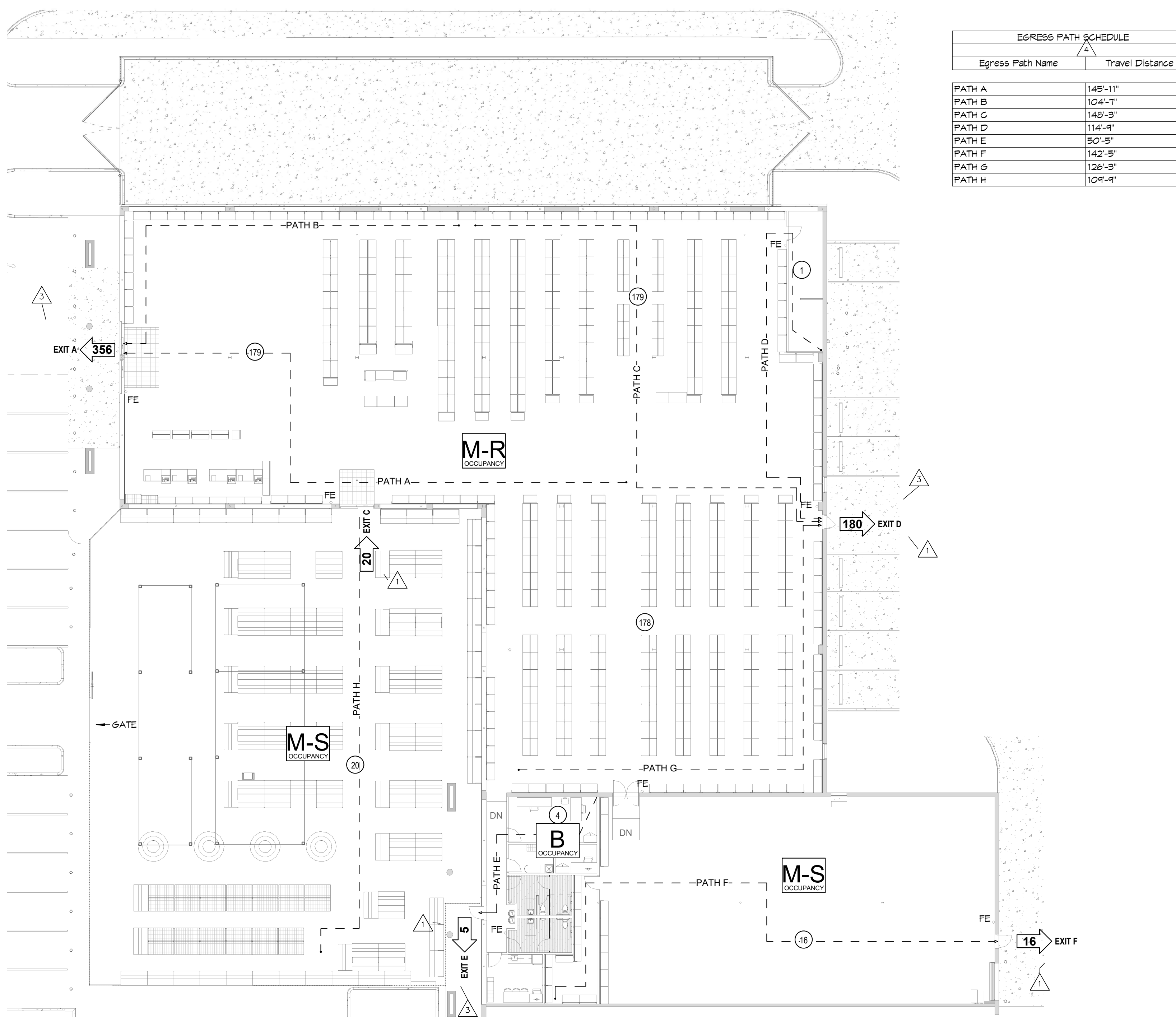
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00001 - MPE (Frank Reid) CODES:
NEC 2023, as amended

CODE ANALYSIS LEGEND

PATH A	EGRESS PATH WITH NAME, SEGMENT LENGTH, AND DIRECTION INDICATED
EXIT A	EXIT INDICATOR WITH NAME OF EXIT AND TOTAL OCCUPANTS EXITING INDICATED
B (OCCUPANCY)	IBC OCCUPANCY GROUP
FE	WALL MOUNTED BRACKET /V/ FIRE EXTINGUISHER. GC VERIFY QUANTITIES WITH FIRE MARSHAL.

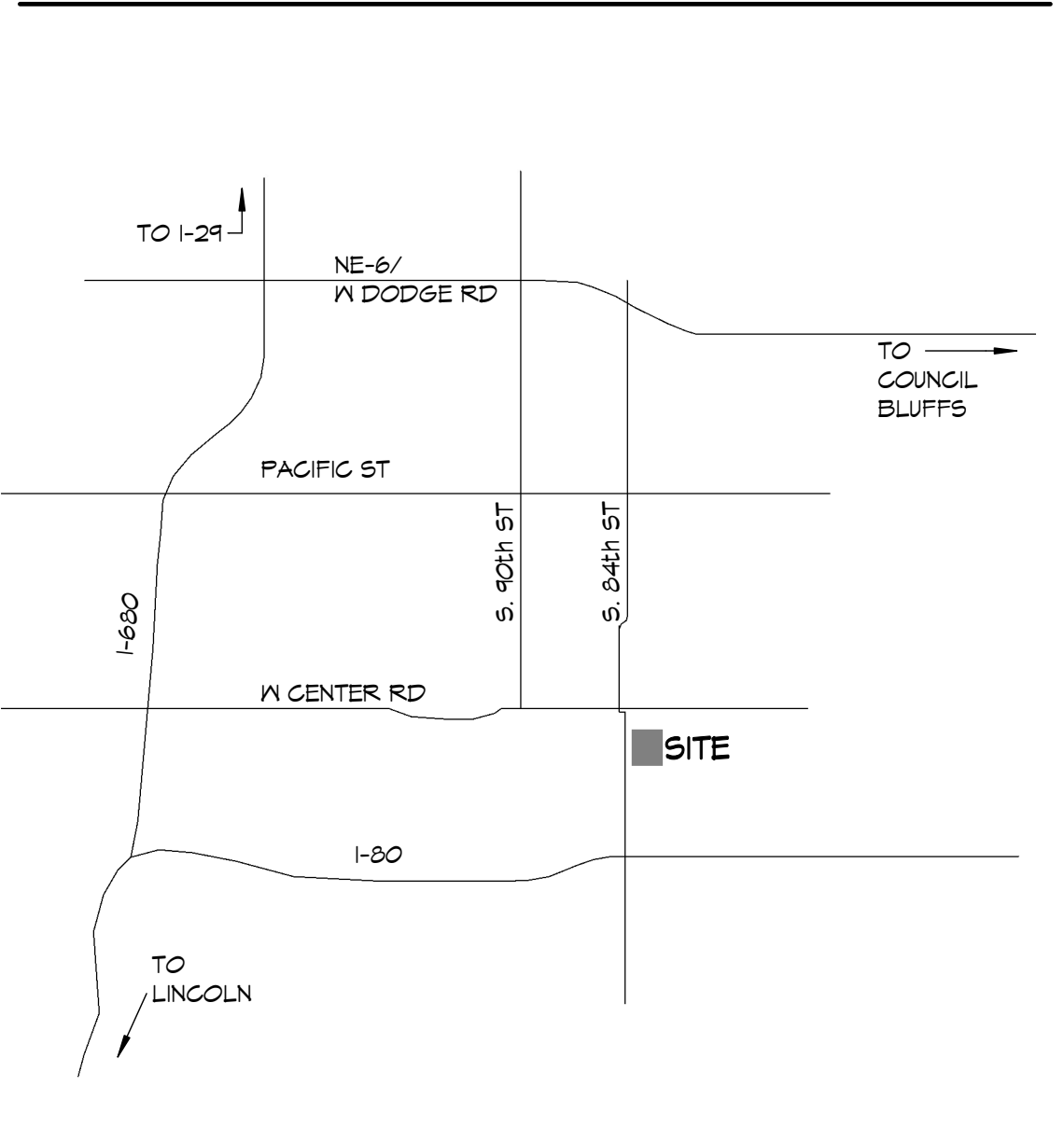
EGRESS PATH SCHEDULE	
Egress Path Name	Travel Distance
PATH A	145'-11"
PATH B	104'-7"
PATH C	140'-3"
PATH D	114'-8"
PATH E	50'-5"
PATH F	142'-5"
PATH G	126'-3"
PATH H	104'-8"



PROJECT TEAM

OWNER	AUTHORITY HAVING JURISDICTION
DAKOTA REIT MANAGEMENT, L.L.C. 3303 32ND AVE. S. SUITE #250 FARGO, ND 58103 CONTACT: ROBERT RUSH, DIR. OF ASSET MANAGEMENT PHONE: 701-239-6978 EMAIL: rrush@dakotareit.com	CITY OF OMAHA PLANNING DEPARTMENT PERMIT & INSPECTIONS 1218 FARMHAY ST OMAHA, NE 68103-1100 PHONE: 402-444-9360 EMAIL: permit.info@cityofomaha.org CONTACT: ANNA BESPOFADNY, BUILDING SUPERINTENDENT
ARCHITECT	TENANT
ALAN J. PLUTOWSKI ARCHITECT 4125 LAKELAND AVENUE N., SUITE 200 MINNEAPOLIS, MINNESOTA 55422 PHONE: 763-533-7171 CONTACT: AMY SCHWABE (EXT. 20) EMAIL: aschwab@etuparchitects.com	WESTLAKE ACE HARDWARE 14000 MARSHALL DRIVE LENEXA, KS 66219 PHONE: 913-912-3090 CONTACT: JOE MEEKER
CIVIL ENGINEER	MECHANICAL ENGINEER (BY DESIGN BUILD)
CIVIL DESIGN ADVANTAGE 4121 NW URBANDALE DRIVE URBANDALE, IA 50322 PHONE: 505-364-4400 CONTACT: NIKKI NEAL, ASLA EMAIL: nicolen@cds-eng.com	MORRISSEY ENGINEERING 4940 NORTH 118TH STREET OMAHA, NE 68164 PHONE: 402-491-4144 CONTACT: COLTON BAYLOR EMAIL: cbaylor@morriseyengineering.com
STRUCTURAL ENGINEER	
PERFORMANCE ENGINEERING 11811 FORT STREET, SUITE 104 OMAHA, NE 68164 PHONE: 402-343-3960 CONTACT: ROB WHORLEY, P.E. EMAIL: rwhorley@performancece.com	
ELECTRICAL ENGINEER	
MORRISSEY ENGINEERING 4940 NORTH 118TH STREET OMAHA, NE 68164 PHONE: 402-491-4144 CONTACT: NICK MANNING, CTS EMAIL: nmanning@morriseyengineering.com	

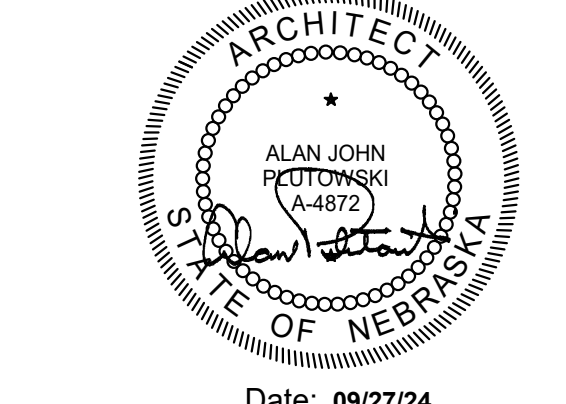
LOCATION PLAN



1 T1-0 1/16" = 1'-0"



Certification



Date: 09/27/24
I, Alan J. Plutowski, am the Coordinating Professional on this Westgate Retail - ACE Hardware project.

Project Information

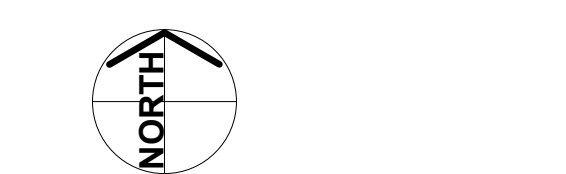
WESTGATE PLAZA
ACE HARDWARE

3401 S. 84TH STREET
OMAHA, NE 68124

Revisions

1	05/30/24	TENANT REVISIONS
2	07/11/24	TENANT REVISIONS
3	09/27/24	CITY COMMENTS
4	10/24/24	CITY COMMENTS

Date: 03/12/2024
Drawn By: DM
Checked By: AS/DC
Job Number: 00324



Sheet Information

TITLE SHEET & PROJECT DATA

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T1-0

SITE PLAN FOR: WESTGATE PLAZA - ACE HARDWARE

OMAHA, NEBRASKA

VICINITY MAP NOT TO SCALE



OMAHA, NEBRASKA

OWNER

DAKOTA UPREIT LIMITED PARTNER
3003 32 AVENUE, SUITE 250
FARGO, ND 58103

ENGINEER

CDA ENGINEERING, LLC
4121 NW URBAN DALE DRIVE
URBAN DALE, IA 50322
CONTACT: NIKKI NEAL
EMAIL: NICOLEN@CDA-ENG.COM
PH: (515) 369-4400

SURVEYOR

HUSKER SURVEYING
4535 NORMAL BLVD
LINCOLN, NE 68506
CONTACT: JAYME MALONE
EMAIL: JAYME@HUSKERSURVEYING.COM
PH: (402) 423-5202

ARCHITECT

TWP ARCHITECTS
4125 LAKELAND AVENUE N, SUITE 200
MINNEAPOLIS, MN 55422
CONTACT: DAN CAYEMBERG
EMAIL: DCAYEMBERG@TWPARCHITECTS.COM
PH: (763) 533-7171

SUBMITTAL DATES

FIRST SUBMITTAL:	04/26/2024
SECOND SUBMITTAL:	07/02/2024
ZONING BOARD OF APPEALS:	07/20/2024
PERMIT SUBMITTAL:	09/24/2024
SIGNED:	10/23/2024
PCSMP SUBMITTAL:	11/13/2024

TITLE DESCRIPTION

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE COUNTY OF DOUGLAS, STATE OF NEBRASKA, AND IS DESCRIBED AS FOLLOWS:
LOT 985, WESTGATE, A SUBDIVISION IN DOUGLAS COUNTY, NEBRASKA.

ZONING

CC-FF - COMMUNITY COMMERCIAL/FLOOD FRINGE DISTRICT
CC - COMMUNITY COMMERCIAL DISTRICT

PROJECT SITE ADDRESS

3457 SOUTH 84TH STREET
OMAHA, NEBRASKA 68124

EXISTING/ PROPOSED USE

EXISTING: MULTI-TENANT RETAIL CENTER
PROPOSED: MULTI-TENANT RETAIL CENTER

DEVELOPMENT SUMMARY

AREA:	8.25 ACRES (359,473 SF)
ZONING:	COMMUNITY COMMERCIAL
DISTRICT:	
SETBACKS:	
FRONT:	25 FEET STREET
SIDE:	15 FEET
INTERIOR SIDE:	NONE
REAR:	15 FEET

PARKING REQUIRED:	
MULTI-TENANT RETAIL CENTER (85,819 SF/250 SF):	343 SPACES
MEDICAL OFFICE (14,722 SF/200 SF):	74 SPACES
OUTDOOR SALES (16,064 SF/2,000 SF):	8 SPACES
RESTAURANT (228 CAPACITY) (1/4 SEATS):	57 SPACES
AUTOMOTIVE REPAIR (4 X CAPACITY):	12 SPACES
RESTAURANT (2,770 SF/40 SERVICE SF):	28 SPACES
	522 SPACES*

*5% PKNG REDUCTION FOR PUBLIC TRANSIT ACCESS:
UPDATED REQUIRED PKNG: 22 SPACES
500 SPACES

PROVIDED: 523 SPACES

OPEN SPACE REQUIRED:	53,921 SF (15%)
EXISTING:	30,233 SF (8%)
PROVIDED:	34,179 SF (10%)

DATE OF SURVEY

04/01/2024

BASIS OF BEARINGS

1. NORTH 87°19'27" EAST, BEING NORTH LINE OF LOT 732 OF WESTGATE SUBDIVISION, DOUGLAS COUNTY, OMAHA, NEBRASKA.

PCSMP

OMA-20240523-7335-P

INDEX OF SHEETS

NO.	DESCRIPTION
C0.0	COVER SHEET
C0.1	REFERENCE PLAN
C1.1	TOPOGRAPHIC SURVEY/DEMOLITION PLAN
C2.1	DIMENSION PLAN
C3.1	GRADING PLAN
C4.1	UTILITY PLAN
L1.1	LANDSCAPE PLAN

APPROVAL CONDITIONS

PROVIDE LANDSCAPE PLAN PER PLANS APPROVED BY THE ZONING BOARD OF APPEALS ON AUGUST 8, 2024 (CASE #24-148).

CONDITIONS OF APPROVAL LISTED AS FOLLOWS:
1. OUTDOOR STORAGE OF BAGGED GOODS ONLY WITHIN THE DESIGNATED AREA;
2. PROVIDING ALL IMPROVEMENTS AS SHOWN ON THE PLANS SUBMITTED, INCLUDING THE INTERIOR AND PERIMETER PARKING LOT LANDSCAPING AND THE SCREEN FENCE TO MITIGATE THE REDUCED BUFFERYARD;
3. SUBMITTAL OF A REZONING APPLICATION TO APPLY THE MCC OVERLAY TO THE SITE.

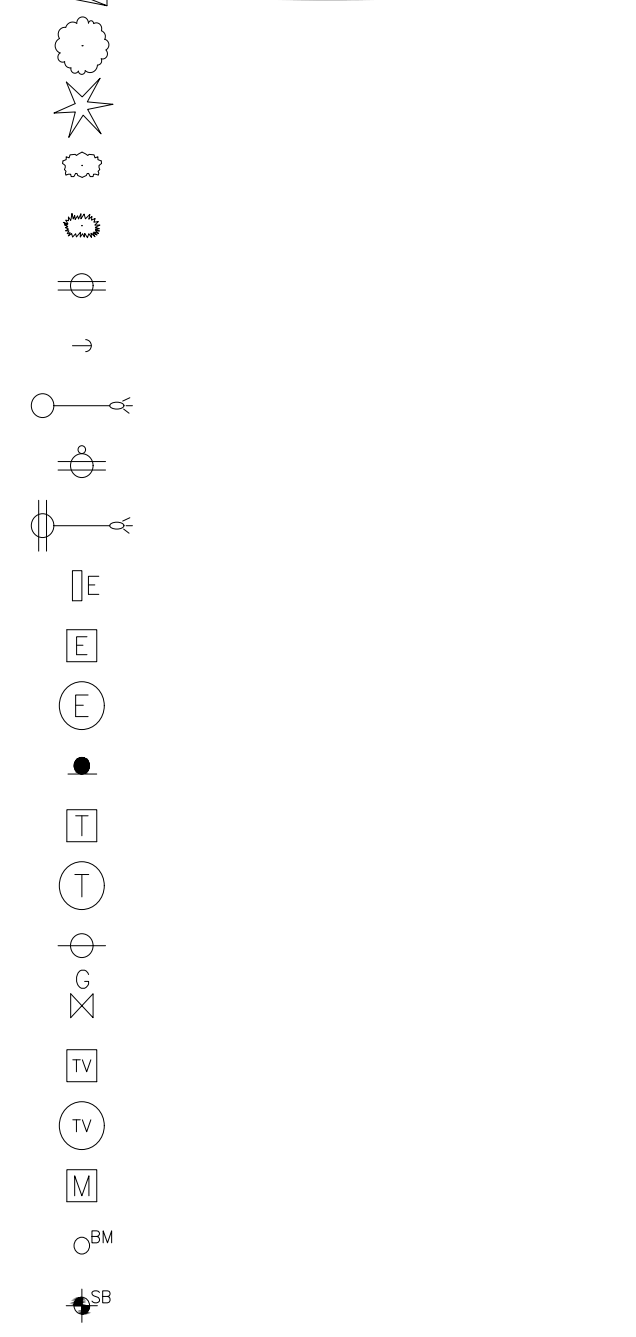


UTILITY WARNING

ANY UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY AND RECORDS OBTAINED BY THIS SURVEYOR. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES SHOWN COMPRISE ALL THE UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION SHOWN.

GENERAL LEGEND

PROPOSED	EXISTING
PROPERTY BOUNDARY	SANITARY MANHOLE
SECTION LINE	WATER VALVE BOX
CENTER LINE	FIRE HYDRANT
RIGHT OF WAY	WATER CURB STOP
BUILDING SETBACK	WELL
PERMANENT EASEMENT	STORM SEWER MANHOLE
TEMPORARY EASEMENT	STORM SEWER SINGLE INTAKE
STORM INTAKE	STORM SEWER DOUBLE INTAKE
STORM INTAKE	FLARED END SECTION
STORM INTAKE	DECIDUOUS TREE
STORM INTAKE	CONIFEROUS TREE
STORM INTAKE	DECIDUOUS SHRUB
STORM INTAKE	CONIFEROUS SHRUB
SANITARY MANHOLE	ELECTRIC POWER POLE
STORM/SANITARY CLEANOUT	GUY ANCHOR
WATER VALVE	STREET LIGHT
FIRE HYDRANT ASSEMBLY	POWER POLE W/ TRANSFORMER
SIGN	UTILITY POLE W/ LIGHT
DETECTABLE WARNING PANEL	ELECTRIC BOX
WATER CURB STOP	ELECTRIC TRANSFORMER
SANITARY SEWER	ELECTRIC MANHOLE OR VAULT
SANITARY SERVICE	TRAFFIC SIGN
STORM SEWER	TELEPHONE JUNCTION BOX
STORM SERVICE	TELEPHONE MANHOLE/VAULT
WATERMAIN WITH SIZE	TELEPHONE POLE
WATER SERVICE	GAS VALVE BOX
SAWCUT (FULL DEPTH)	CABLE TV JUNCTION BOX
SILT FENCE	CABLE TV MANHOLE/VAULT
USE AS CONSTRUCTED (UAC)	MAIL BOX
MINIMUM PROTECTION ELEVATION (MPE)	BENCHMARK
FINISH FLOOR ELEVATION (FFE)	SOIL BORING
	UNDERGROUND TV CABLE
	GAS MAIN
	FIBER OPTIC
	UNDERGROUND TELEPHONE
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC
	FIELD TILE
	SANITARY SEWER W/ SIZE
	STORM SEWER W/ SIZE
	WATER MAIN W/ SIZE



ALL CONSTRUCTION MATERIALS, DUMPSTERS, DETACHED TRAILERS OR SIMILAR ITEMS ARE PROHIBITED ON PUBLIC STREETS OR WITHIN THE PUBLIC R.O.W.

ALL PROJECT PROCEDURES, MATERIALS, BONDS AND RESERVES SHALL CONFORM TO THE CITY OF OMAHA'S STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2024 EDITION ("STANDARD SPECIFICATIONS"), STANDARD PLATES AND MATERIALS.

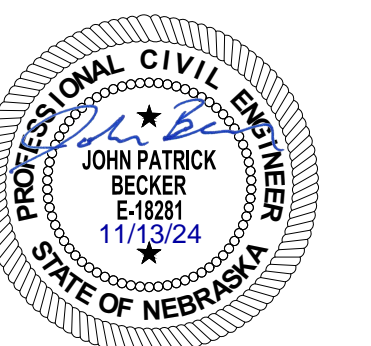


CDA ENGINEERING

4121 NW URBAN DALE DRIVE, URBAN DALE, IA 50322

PH: (515) 369-4400

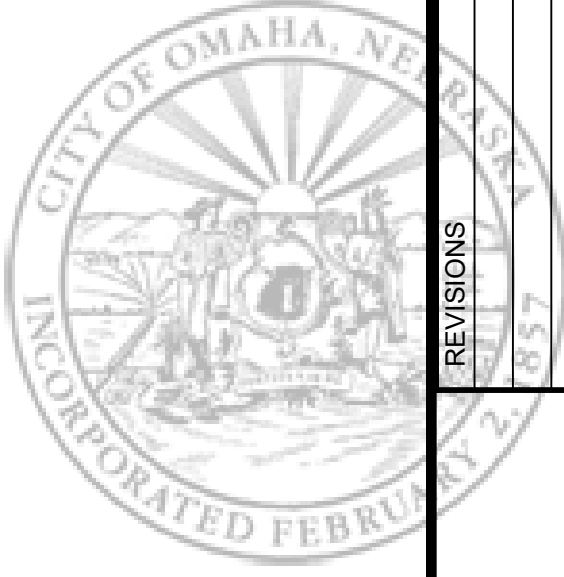
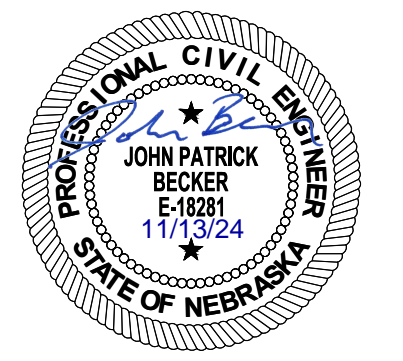
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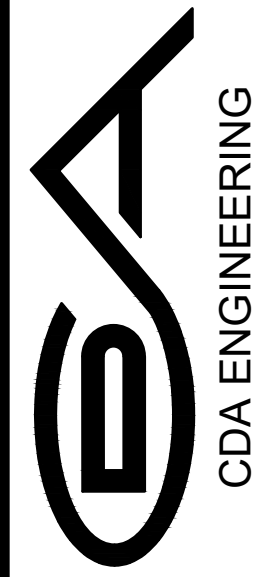
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DRAWN BY: J. BECKER CHECKED BY: J. BECKER PLOTTED BY: J. BECKER



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OMA-20240523-7335-P



WESTGATE PLAZA - ACE HARDWARE REFERENCE PLAN

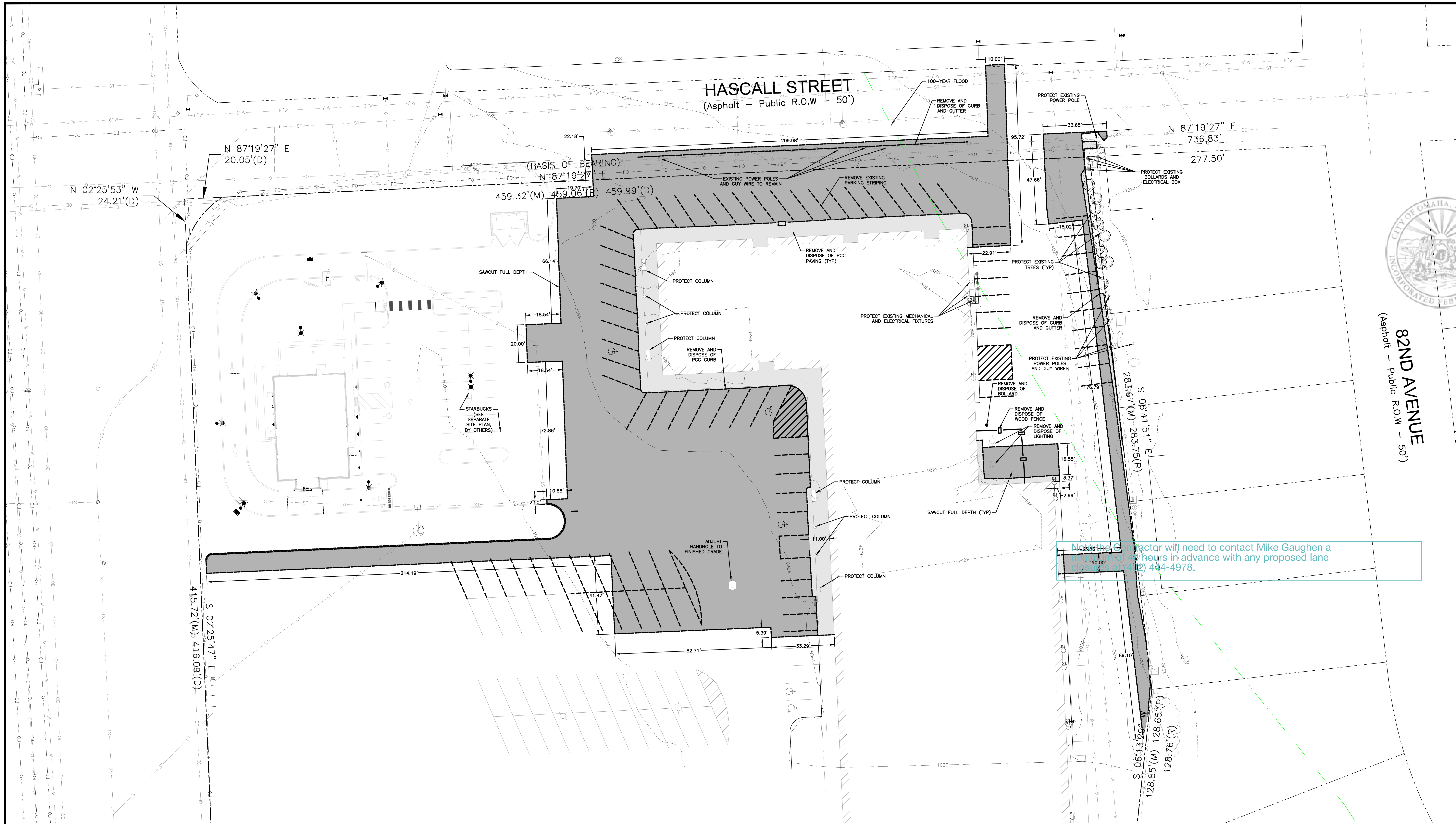


4121 NW URBANDALE DRIVE
URBANDALE, IA 50322
PHONE: (515) 369-4400 FAX: (515) 369-4410
ENGINEER: _____ DRAFTED: _____

REVISIONS	DATE

DATE: 11/13/2024
SHEET NUMBER: **C0.1**
2403.225

3457 S. 84TH ST.
OMAHA, NE



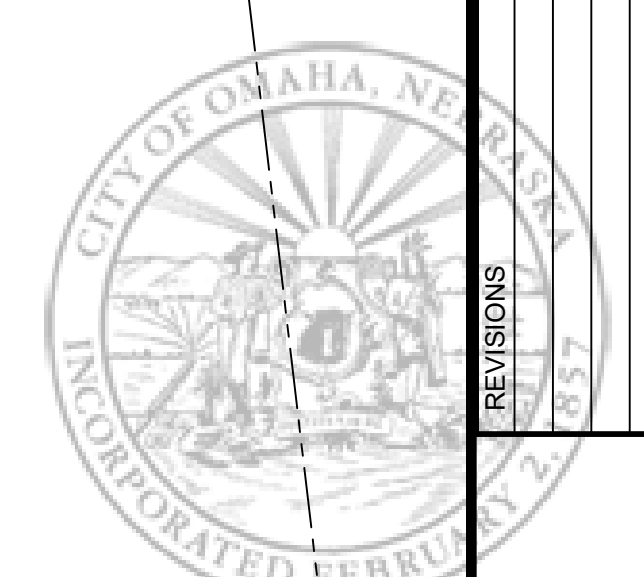
DEMOLITION NOTES

- PRIOR TO ANY WORK AT THE SITE, CONTRACTOR SHALL EXAMINE ANY APPLICABLE DRAWINGS AVAILABLE FROM THE OWNER OR ENGINEER AND CONSULT WITH OWNER'S PERSONNEL AND UTILITY COMPANY REPRESENTATIVES. NO COMPENSATION WILL BE ALLOWED FOR DAMAGE FROM FAILURE TO COMPLY WITH THIS REQUIREMENT.
- PRIOR TO DEMOLITION, CONTRACTOR SHALL NOTIFY IN WRITING (48 HRS NOTICE) THE FOLLOWING:
 - CITY
 - APPROPRIATE UTILITY COMPANIES
 - OWNER
 - CDA ENGINEERING
 - ARCHITECT
- DO NOT DISTURB EXISTING UTILITIES UNLESS OTHERWISE NOTED. COORDINATE REMOVAL OR ABANDONMENT OF ALL UTILITIES WITH THE APPROPRIATE UTILITY SUPPLIER AND REGULATORY AGENCIES.
- PROTECT EXISTING UTILITIES THAT ARE TO REMAIN. THE LOCATIONS OF ALL UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM EXISTING RECORDS. THE EXACT LOCATION AND ELEVATION OF ALL UTILITIES MUST BE DETERMINED BY THE CONTRACTOR. IT SHALL BE THE DUTY OF THE CONTRACTOR TO ASCERTAIN WHETHER ANY ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN ON THE PLAN MAY BE PRESENT.
- BACKFILL ALL EXCAVATIONS WITH COHESIVE MATERIAL COMPACTED TO 95% MAXIMUM STANDARD PROCTOR DRY DENSITY AND MOISTURE RANGE OF OPTIMUM MOISTURE TO 4% ABOVE OPTIMUM MOISTURE. TESTING OF BACKFILL TO BE BY A GEOTECHNICAL ENGINEER EMPLOYED BY THE OWNER. IN THE EVENT OF A TEST FAILURE, ANY RETESTING SHALL BE PAID FOR BY THE CONTRACTOR.
- FIELD VERIFY EXISTING GRADES AND LOCATION OF EXISTING UTILITIES, CONDUIT, LINES, POLES, TREES, PAVING, BUILDING AND OTHER SITE FEATURES PRIOR TO DEMOLITION AND IMMEDIATELY INFORM THE ENGINEER AND/OR OWNER OF ANY DISCREPANCIES.
- DEMOLITION NOTES AS SHOWN ON THE PLAN ARE NOT ALL INCLUSIVE. CONTRACTOR TO ABANDON IN PLACE OR REMOVE AND DISPOSE OF ALL EXISTING SITE IMPROVEMENTS ABOVE AND BELOW GROUND TO COMPLY WITH THE GENERAL INTENT OF THIS DOCUMENT.
- ALL CONSTRUCTION/DEMOLITION DEBRIS SHALL BE DISPOSED OF OFFSITE IN FULL COMPLIANCE WITH CURRENT ENVIRONMENTAL REGULATIONS.
- CONSTRUCTION LIMITS SHALL BE CONFINED TO THE SITE BOUNDARY AS NOTED. ANY DAMAGE TO PROPERTIES OUTSIDE THE SITE BOUNDARY SHALL BE AT THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- ALL WORK SHALL BE IN ACCORDANCE WITH OSHA STANDARDS. NOTHING INDICATED ON THE DRAWINGS SHALL RELIEVE THE CONTRACTOR FROM COMPLYING WITH ANY APPROPRIATE SAFETY REGULATIONS.

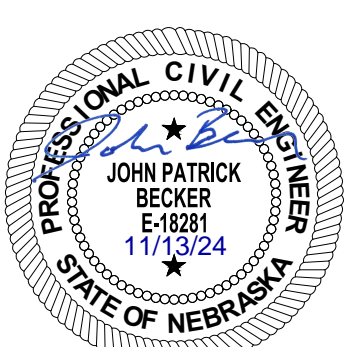
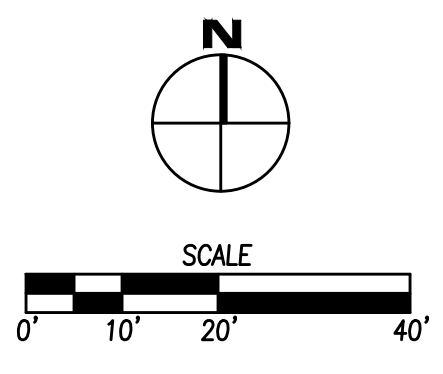
TRAFFIC CONTROL NOTES

- ALL APPLICABLE CITY PERMITS, INCLUDING BUT NOT LIMITED TO CLOSURE PERMITS, SHALL BE OBTAINED PRIOR TO ANY CONSTRUCTION WITHIN CITY R.O.W. OR LANE CLOSURES.
- ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- BARRICADES SHALL CONFORM TO THE OMAHA PUBLIC WORKS "BARRICADING STANDARDS, SPECIFICATIONS, METHODS AND MATERIALS" AND/OR THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", AND ANY ADDITIONS THERETO. THE AFOREMENTIONED PUBLICATIONS CAN BE FOUND AT [HTTPS://PUBLICWORKS.CITYOFOMAHA.ORG/IMAGES/PDF/BARRICADING-STANDARDS-SPECS-METHODS-AND-MATERIALS.PDF](https://publicworks.cityofomaha.org/images/pdf/barricading-standards-specs-methods-and-materials.pdf) AND [HTTPS://MUTCD.FHWA.DOT.GOV/PDFS/2009R1R2/PDF_INDEX.HTM](https://mutcd.fhwa.dot.gov/pdfs/2009r1r2/pdf_index.htm)
- PERMANENT SIGNING THAT CONVEYS A MESSAGE CONTRARY TO THE MESSAGE OF TEMPORARY SIGNING AND NOT APPLICABLE TO THE WORKING CONDITIONS SHALL BE COVERED BY THE CONTRACTOR WHEN DIRECTED BY THE CITY.
- THE CONTRACTOR SHALL COORDINATE HIS TRAFFIC CONTROL WITH OTHER CONSTRUCTION PROJECTS IN THE AREA.
- SIDEWALK CLOSED SIGNS REQUIRED FOR ALL SIDEWALK CLOSURES. THE CONTRACTOR IS CAUTIONED NEITHER TO OBSTRUCT NOR REMOVE ANY EXISTING PAVEMENT, NOR TO DISTURB THE EXISTING TRAFFIC PATTERNS MORE THAN IS NECESSARY FOR THE PROPER EXECUTION OF THE WORK.
- ALL SIGNING AND LANE STRIPING WILL NEED TO COMPLY WITH MUTCD. MAINTENANCE AND REPLACEMENT OF THE SIGNING AND STRIPING WILL BE THE RESPONSIBILITY OF THE APPLICANT.

PCSMP
OMA-20240523-7335-P



82ND AVENUE
(Asphalt - Public R.O.W - 50')



DATE: _____

REVISIONS: _____

4121 NW URBANDALE DRIVE
URBANDALE, IA 50322
PHONE: (515) 369-4400 FAX: (515) 369-4410

ENGINEER: _____ DRAFTED: _____

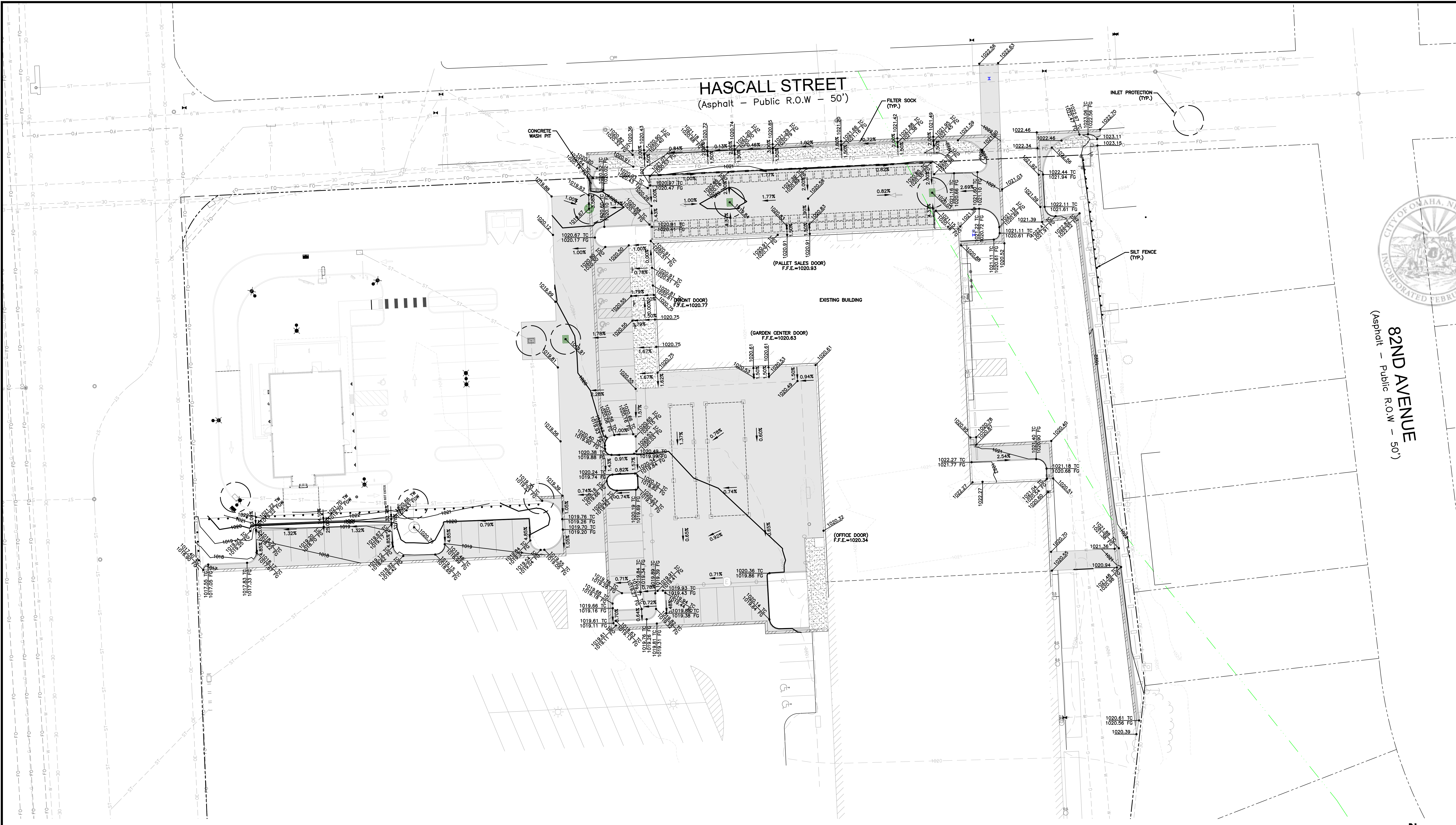
CSA
CDA ENGINEERING

OMAHA, NE

WESTGATE PLAZA - ACE HARDWARE
TOPOGRAPHIC SURVEY/DEMOLITION PLAN

3457 S. 84TH ST.

DATE: 11/13/2024
SHEET NUMBER: **C1.1**
2403.225

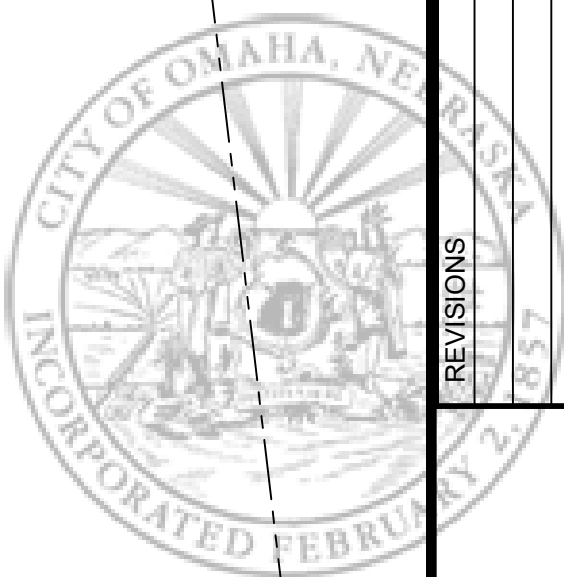


GRADING NOTES

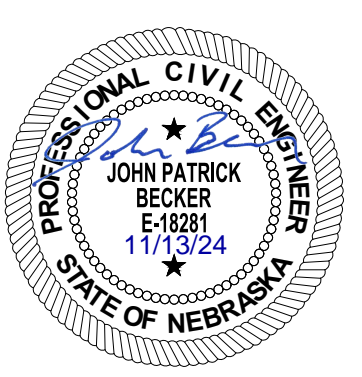
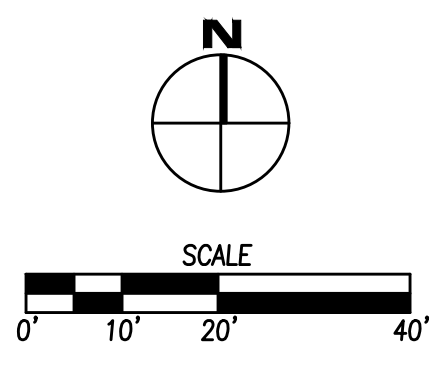
1. PRIOR TO ANY GRADING, A COPY OF THE NPDES PERMIT SHALL BE PROVIDED TO THE CITY'S BUILDING DIVISION.
2. CONTRACTOR SHALL STRIP ALL DELETERIOUS MATERIAL. THE TOP 6" OF TOPSOIL IS TO BE STOCKPILED AND RESPAID AFTER GRADING IS COMPLETE. CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING A SUITABLE TOPSOIL STOCKPILE SITE.
3. EXCAVATION SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF ALL CITY SUPPLEMENTALS, IF APPLICABLE.
4. MATCH EXISTING GRADES AT PROPERTY LINES AND/OR CONSTRUCTION LIMITS.
5. ALL SPOT ELEVATIONS ARE FORM GRADE (FG) OR TOP OF FINISHED SURFACES UNLESS OTHERWISE NOTED.
6. SITE SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS.
7. SLOPES IN PAVEMENT SHALL BE UNIFORM TO AVOID PONDING.
8. THE CONTRACTOR SHALL CONFINE HIS GRADING OPERATIONS TO WITHIN THE CONSTRUCTION LIMITS AND EASEMENTS SHOWN ON THE PLANS. ANY DAMAGE TO PROPERTIES OUTSIDE THE SITE BOUNDARY SHALL BE AT THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
9. THE CONTRACTOR SHALL APPLY NECESSARY MOISTURE CONTROL TO THE CONSTRUCTION AREA AND HAUL ROADS TO PREVENT THE SPREAD OF DUST.
10. REFER TO SEPARATE EROSION CONTROL PLAN FOR DETAILS ON EROSION CONTROL.
11. FINAL FINISH GRADING TO BE APPROVED BY THE ARCHITECT AND CIVIL ENGINEER.
12. MATCH EXISTING GRADES AT THE INTERFACE OF NEW AND EXISTING GRADES OR PAVING SIDEWALKS.
 MAINTAIN 1% MINIMUM AND 5% MAXIMUM LONGITUDINAL SLOPES ON ALL PAVED WALKWAYS. ALL WALKS TO HAVE 2.0% MAXIMUM TRANSVERSE SLOPE IN THE DIRECTION OF NATURAL DRAINAGE. SAW CUT JOINTS AS SOON AS CONCRETE HAS SET. SAW CUTS TO BE 1/8" TO 1/4" WIDE; DEPTH: LONGITUDINAL T/3, TRANSVERSE T/4.

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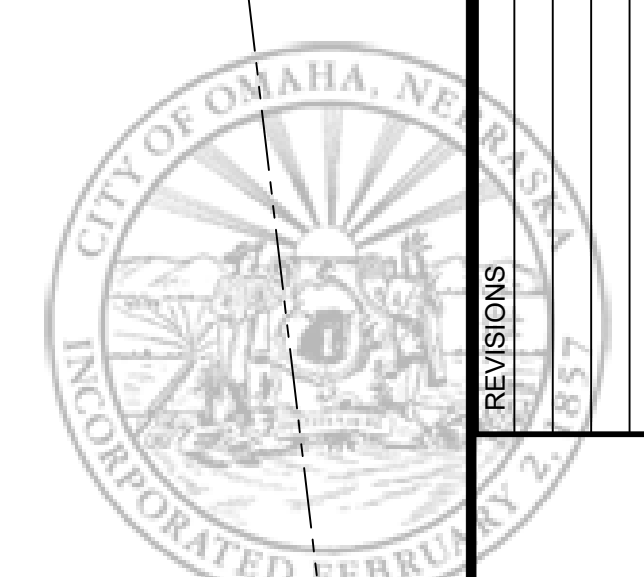
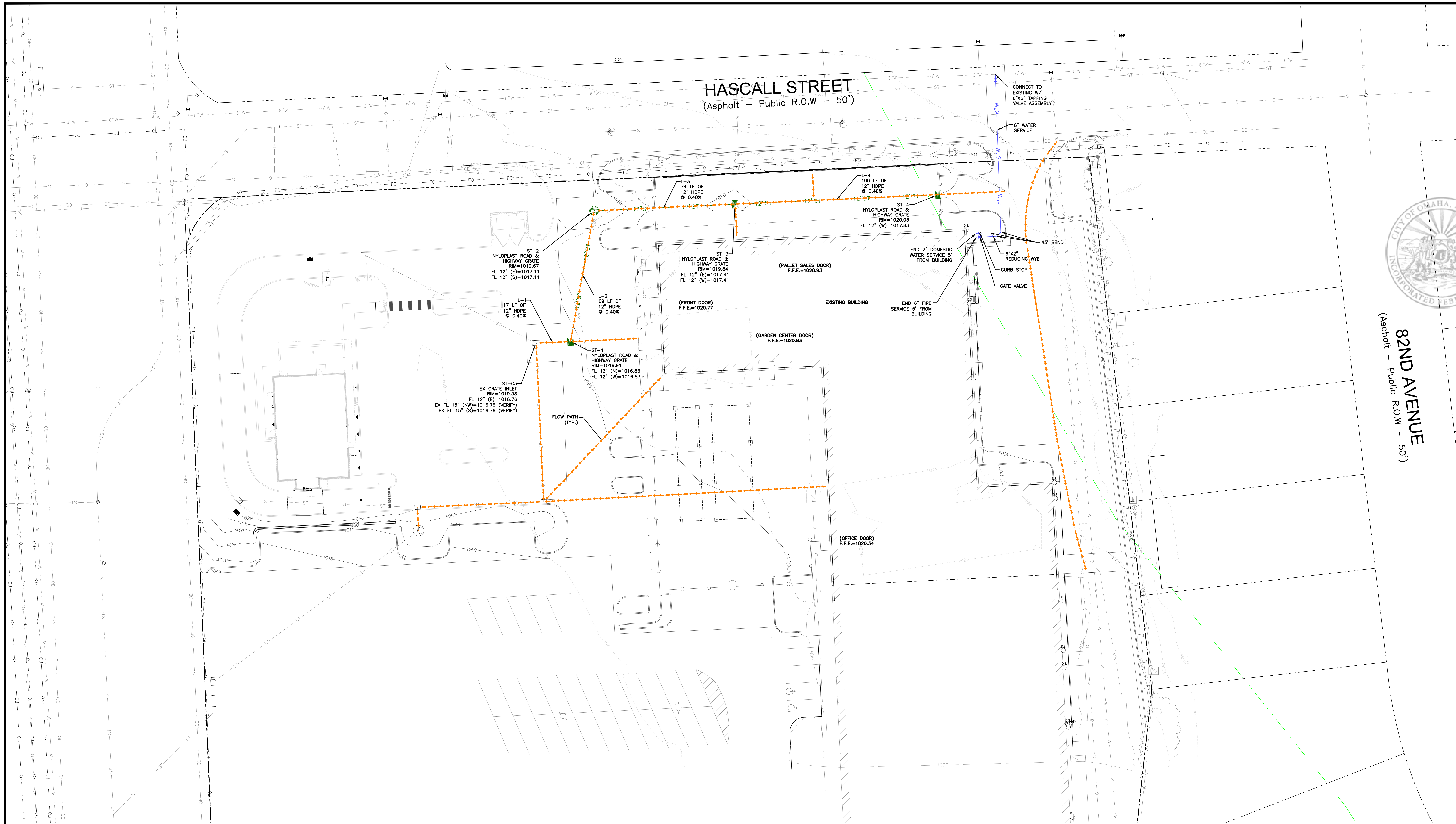
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82ND AVENUE
 (Asphalt - Public R.O.W - 50')



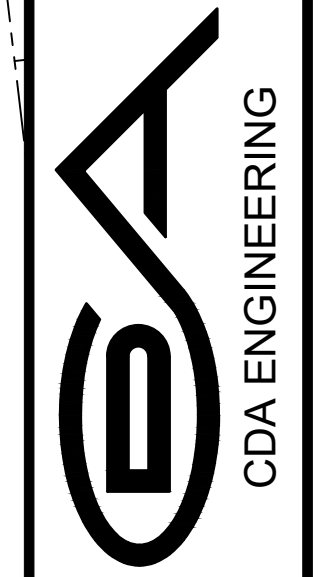
<p>DATE: _____</p> <p>REVISIONS:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 5%;">NO.</th> <th style="width: 15%;">DATE</th> <th style="width: 80%;">DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	DESCRIPTION				<p>4121 NW URBANDALE DRIVE URBANDALE, IA 50322 PHONE: (515) 369-4400 FAX: (515) 369-4410</p> <p>ENGINEER: _____</p> <p>DRAFTED: _____</p>
NO.	DATE	DESCRIPTION					
<p>WESTGATE PLAZA - ACE HARDWARE GRADING PLAN</p>							
<p>OMAHA, NE 3457 S. 84TH ST.</p>							
<p>DATE: 11/13/2024 SHEET NUMBER: C3.1 2403.225</p>							



82ND AVENUE
(Asphalt - Public R.O.W - 50')

DATE	REVISIONS

4121 NW URBANDALE DRIVE
URBANDALE, IA 50322
PHONE: (515) 369-4400 FAX: (515) 369-4410
ENGINEER: DRAFTED:



OMAHA, NE

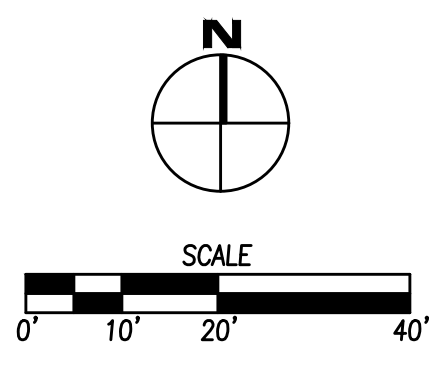
WESTGATE PLAZA - ACE HARDWARE
UTILITY PLAN
3457 S. 84TH ST.

DATE: 11/13/2024
SHEET NUMBER: C4.1
2403.225

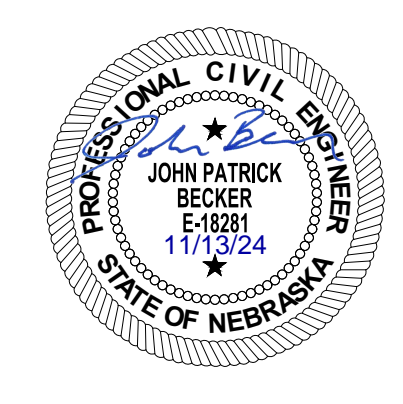
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OMA-20240523-7335-P

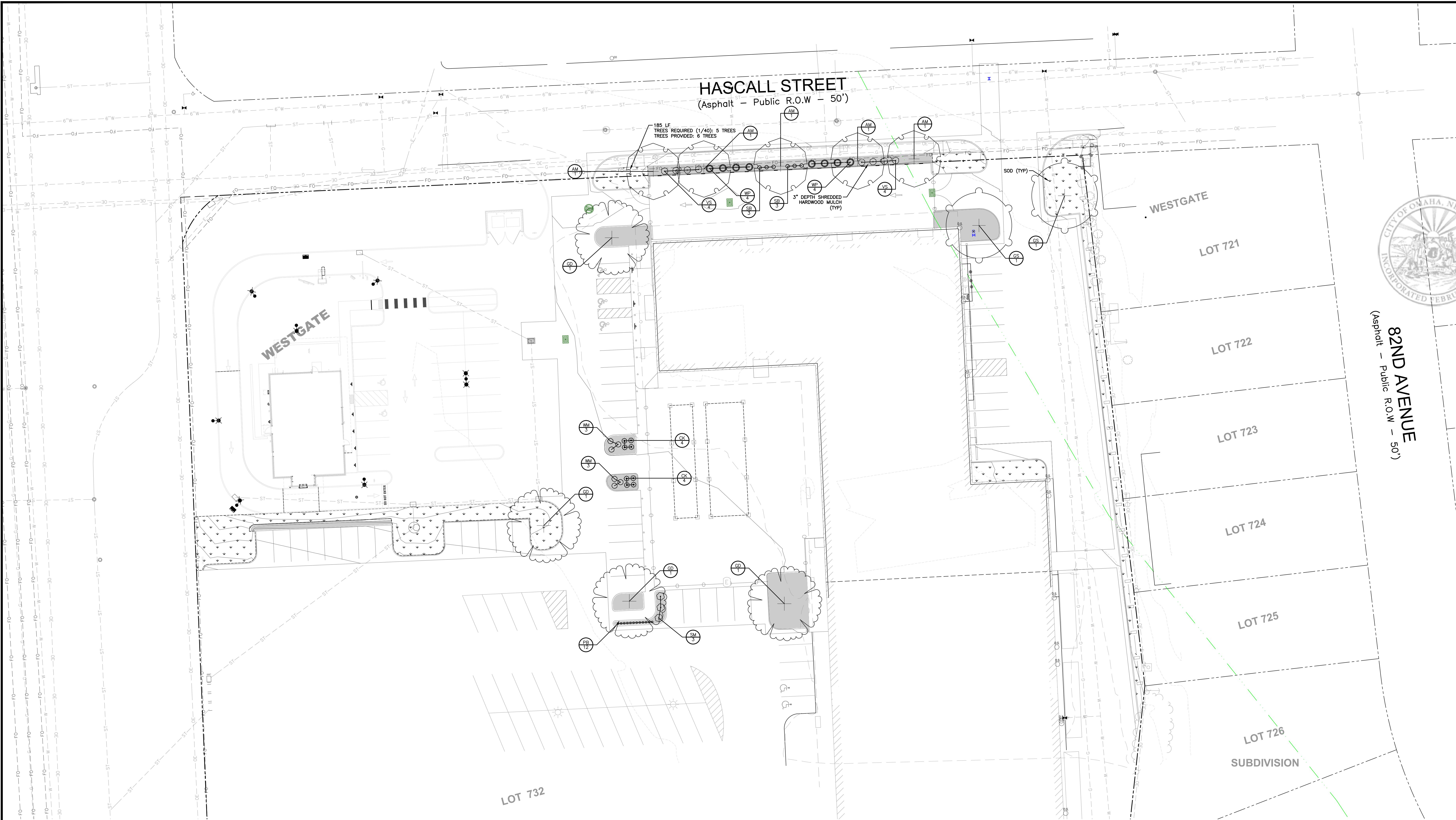
UTILITY NOTES

- REFER TO MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR UTILITY SERVICE SIZES AND EXACT LOCATIONS. REFER TO ELECTRICAL PLANS FOR ELECTRIC AND TELEPHONE SERVICE CONSTRUCTION DETAILS. REFER TO MECHANICAL PLANS FOR GAS SERVICE CONSTRUCTION DETAILS.
- FIELD VERIFY ELEVATIONS AND LOCATIONS OF ALL CONNECTIONS TO EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION.
- PROVIDE TEMPORARY SUPPORT FOR EXISTING UTILITY LINES THAT ARE ENCOUNTERED DURING CONSTRUCTION UNTIL BACKFILLING IS COMPLETE.
- BACKFILL ALL UTILITY TRENCHES ACCORDING TO THE MOST RECENT EDITION OF THE CITY SUPPLEMENTALS. MAINTAIN A MINIMUM OF 5' COVER OVER ALL WATERMANS.
- THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES ARE APPROXIMATE AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCES WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO THE SAME.
- ALL UTILITIES SHALL BE STUBBED TO 5 FEET FROM BUILDINGS. REFER TO MEP PLANS FOR DESIGN FROM 5' OUTSIDE OF BUILDING FACE.
- ADJUST ALL MANHOLES AND INTAKES TO FINISHED GRADES.
- ALL SANITARY SEWER AND WATER SERVICES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY'S PLUMBING CODE.
- CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, VALVE BOXES, MANHOLE RIMS, AND SEWER CLEAN OUTS, ETC. TO FINISH GRADE AS APPLICABLE WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.
- MAINTAIN A MINIMUM OF 10' HORIZONTAL SEPARATION BETWEEN SANITARY SEWER LINES AND WATER MAINS.
- WHERE PUBLIC UTILITY FITURES ARE SHOWN AS EXISTING ON THE PLANS OR ENCOUNTERED WITHIN THE CONSTRUCTION AREA, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNERS OF THOSE UTILITIES PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. THE CONTRACTOR SHALL AFFORD ACCESS TO THESE FACILITIES FOR NECESSARY MODIFICATION OF SERVICES. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATIONS AND TO AVOID DAMAGE THERETO. NO CLAIMS FOR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY INTERFERENCE OR DELAY CAUSED BY SUCH WORK. THE CONTRACTOR IS REQUIRED TO UTILIZE THE UTILITY ONE-CALL SERVICE AT 811 OR 800-331-5666 AT LEAST 48 HOURS PRIOR TO EXCAVATING ANYWHERE ON THE PROJECT.
- ALL WATERMAIN WORK, PUBLIC OR PRIVATE SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT EDITION OF ALL CITY SUPPLEMENTALS.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF WORK OF ALL SUBCONTRACTOR(S) INVOLVED IN THE PROJECT.
- PRIVATE UTILITIES TO BE INSTALLED PER THE CITY'S STANDARD CONSTRUCTION SPECIFICATIONS FOR PUBLIC IMPROVEMENTS AND THE 2012 UNIFORM PLUMBING CODE. CONTACT BUILDING INSPECTION A MINIMUM OF 24 HOURS IN ADVANCE FOR UTILITY INSTALLATION INSPECTIONS.
- OWNER IS RESPONSIBLE FOR MAINTENANCE OF PRIVATE UTILITIES.
- CONTRACTOR SHALL PREVENT ENTRY OF MUD, DIRT, DEBRIS AND OTHER MATERIAL INTO NEW AND EXISTING SEWER SYSTEMS. SHOULD ANY CONTAMINATION OCCUR DURING CONSTRUCTION, THE CONTRACTOR SHALL CLEAN AT NO ADDITIONAL COST TO THE OWNER. INSTALL SILT FENCE AT ALL PERMANENT STORM SEWER INLETS.
- PIPE BEDDING SHALL BE IN ACCORDANCE WITH THE STANDARD PLATE 701-01. ALL SANITARY SEWER PIPE SHALL BE AGGREGATE BEDDED IN ACCORDANCE WITH BEDDING TYPE F3 ON STANDARD PLATE 701-01. TRENCH CONSTRUCTION WITH A 24" MINIMUM WIDTH TRENCH SHALL BE USED.



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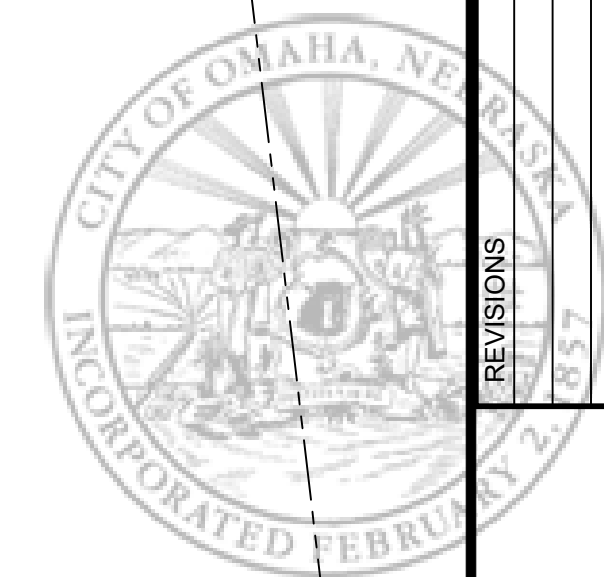
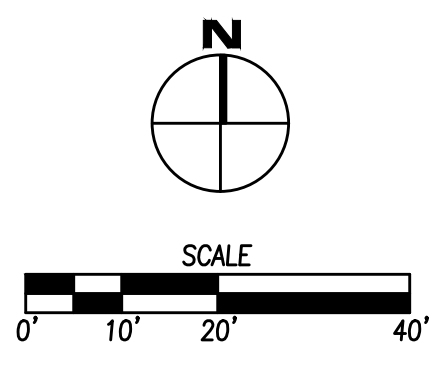


LANDSCAPE NOTES

- LOCATE ALL UTILITIES BEFORE ANY PLANTING BEGINS.
- ALL PROJECT PROCEDURES, MATERIALS, BONDS AND RESERVES SHALL CONFORM TO THE CITY OF OMAHA'S STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2024 EDITION ("STANDARD SPECIFICATIONS"). IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE STANDARD SPECIFICATIONS. THE STANDARD SPECIFICATIONS CAN BE FOUND AT: [HTTPS://PUBLICWORKS.CITYOFOMAHA.ORG/CONTRACTORS-CONSULTANTS2/CONTRACTORS/STANDARD-PLATES-CURB-RAMPS-AND-SPECIFICATIONS](https://publicworks.cityofomaha.org/contractors-consultants2/contractors/standard-plates-curb-ramps-and-specifications)
- REFERENCES TO "STANDARD PLATES" REFERS TO THE CITY OF OMAHA'S 2024 STANDARD PLATE LIST. THESE STANDARD PLATES CAN BE FOUND AT: [HTTPS://PUBLICWORKS.CITYOFOMAHA.ORG/2024-STANDARD-PLATE-TYPE-SIZE-AND-QUALITY-OF-PLANT-MATERIAL](https://publicworks.cityofomaha.org/2024-STANDARD-PLATE-TYPE-SIZE-AND-QUALITY-OF-PLANT-MATERIAL) SHALL CONFORM TO THE MOST CURRENT EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK ANSI Z66.1
- ALL PLANT MATERIAL SHALL BE HEALTHY SPECIMENS WITHOUT DEFORMITIES, VOIDS AND OPEN SPACES, WITH WELL DEVELOPED BRANCH AND ROOT SYSTEMS, TRUE TO HEIGHT, SHAPE AND CHARACTER OF GROWTH OF THE SPECIES OR VARIETY.
- SEED (TYPE 1) OR SOD ALL DISTURBED AREAS AS DIRECTED BY OWNER.
- BACKFILL TO TOP OF CURB. (MINUS 1 1/2" FOR SOD, IF RED.)
- WEED PREVENTER (PRE-EMERGENT) SHALL BE SPREAD OVER SOIL AFTER PLANTING AND BEFORE MULCHING IN ALL PLANTING BEDS PER MANUFACTURER'S RECOMMENDATIONS.
- SHREDDED HARDWOOD MULCH SHALL BE PLACED AROUND ALL TREES, SHRUBS AND IN ALL PLANTING BEDS TO A (MIN) DEPTH OF 3".
- ALL EDGING SHALL BE SPADE CUT EDGE.
- PLANT QUANTITIES ARE SHOWN FOR INFORMATION ONLY, THE DRAWING SHALL PREVAIL IF ANY CONFLICTS ARISE.
- ALL DEBRIS SPILLED IN THE PUBLIC R.O.W. SHALL BE PICKED UP BY THE CONTRACTOR AT THE END OF EACH WORK DAY.
- CONTRACTOR SHALL WARRANT ALL PLANT MATERIALS FOR A PERIOD OF ONE YEAR FROM DATE OF INSTALLATION.
- CONTRACTOR SHALL PROVIDE IRRIGATION DESIGN TO OWNER, IF REQUESTED, FOR APPROVAL.

CODE	QTY	COMMON NAME	BOTANICAL NAME	CONDITION AND SIZE
OVERSTORY TREES				
AM	5	Miyabe Maple	Acer miyabei	8.66, 2" CALIPER
UD	4	Kentucky Coffertree	Gymnocladus dioica 'Espresso'	8.66, 2" CALIPER
DS	2	Skyline Honey Locust	Gleditsia triacanthos inermis 'Skyline'	8.66, 2" CALIPER
SHRUBS				
SM	13	Golden Sunrise Spirea	Spiraea x bumalda 'Monhuf'™	CONT, 3 GAL
VS	8	Summersweet Vanilla Spice	Clethra alnifolia 'Vanilla Spice'	CONT, 3 GAL
WM	6	Minuet Weigela	Weigela florida 'Minuet'	CONT, 3 GAL
WF	8	Pink Poppet Weigela	Weigela florida 'Plangon'	CONT, 3 GAL
GRASSES				
GR	8	Karl Foerster Feather Reed Grass	Calamagrostis x acutiflora 'Karl Foerster'	CONT, 1 GAL
PB	12	Little Bunny Fountain Grass	Pennisetum alopecuroides 'Little Bunny'	CONT, 1 GAL
SB	6	Standing Ovation Little Bluestem	Schizachyrium scoparium 'Standing Ovation'	CONT, 1 GAL

00025 - ZONE (Jacob Placzek)
 Plans approved by the Zoning Board of Appeals on November 14, 2024 (Case #24-187). Conditions of approval listed as follows:
 1) Outdoor storage of bagged goods only within the designated area;
 2) Providing all improvements as shown on the plans submitted, including landscaping and sidewalks.



82ND AVENUE
 (Asphalt - Public R.O.W - 50')

DATE: _____
 REVISIONS: _____
 4121 NW URBANDALE DRIVE
 URBANDALE, IA 50322
 PHONE: (515) 369-4400 FAX: (515) 369-4410
 ENGINEER: _____ DRAFTED: _____
WESTGATE PLAZA - ACE HARDWARE
LANDSCAPE PLAN
 OMAHA, NE
 3457 S. 84TH ST.
 DATE: 11/13/2024
 SHEET NUMBER: **L1.1**
 2403.225

FILE NAME: I:\2024\20240523\PCSMP\PCSMP.dwg
 DATE PLOTTED: 11/13/2024 1:58 PM
 PLOTTED BY: JACOB PLACZEK
 PLOT SCALE: 1"=20'-0"

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 OMA-20240523-7335-P





GENERAL DEMO NOTES:

1. THE GENERAL CONTRACTOR SHALL ACCEPT THE PROJECT AS IT EXISTS. AS-BUILT DRAWINGS HAVE NOT BEEN FIELD VERIFIED. ALL EXISTING CONDITIONS, WHETHER OR NOT SPECIFICALLY NOTED ON THE DRAWINGS (INCLUDING BUT NOT LIMITED TO ADDITIONAL WALLS, DOORS, PLUMBING, ELECTRICAL, ETC. NOT SHOWN ON THE PLANS) SHALL BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK.
2. DEMOLITION DRAWINGS INDICATE GENERAL SCOPE OF WORK ONLY. NOT ALL DEMOLITION WORK NECESSARY IS SPECIFICALLY INDICATED. THE EXTENT AND METHOD OF DEMOLITION SHALL BE AS NEEDED TO ACCOMMODATE THE NEW WORK AS DETAILED.
3. ACCESS ITEMS INDICATED FOR DEMOLITION IN A MANNER DESIGNED TO MINIMIZE IMPACT ON EXISTING WORK INDICATED TO REMAIN. WHENEVER POSSIBLE, PERFORM DEMOLITION ACTIVITIES FROM AREAS TO BE CONCEALED BY NEW WORK.
4. PATCH AND REPAIR ALL EXISTING CONSTRUCTION WHICH IS DAMAGED OR DISTURBED TO MATCH EXISTING OR RESTORE TO ORIGINAL CONDITION. WHERE AREAS OR ITEMS THAT ARE INDICATED TO BE REMOVED ADJACENT TO EXISTING CONSTRUCTION INDICATED TO REMAIN, SAWCUT OR OTHERWISE REMOVE TO PROVIDE A CLEAN EDGE. IF EVIDENCE OF DEMOLITION WILL NOT BE CONCEALED BY NEW WORK, PATCH AND/OR REPAIR TRANSITION TO MATCH ADJACENT SURFACE AND FINISH.
5. ALL CONSTRUCTION SCHEDULING AND SEQUENCING SHALL BE COORDINATED WITH THE OWNER PRIOR TO BEGINNING ANY WORK. COORDINATE ALL DEMOLITION WORK TO ACCOMMODATE OWNER'S NORMAL OPERATIONS.
6. ERECT TEMPORARY PARTITIONS/BARRIERS AS REQUIRED TO PREVENT CONTAMINATION OF ADJACENT AREAS THAT ARE OR WILL BE USED BY THE OWNER FROM DUST, DEBRIS, AND EXCESSIVE NOISE CAUSED BY DEMOLITION ACTIVITIES.
7. SHORE AND/OR BRACE EXISTING WORK AS REQUIRED TO SAFELY REMOVE ITEM(S) OR EXISTING CONSTRUCTION WITHOUT DAMAGE TO EXISTING CONSTRUCTION INDICATED TO REMAIN.
8. DO NOT MODIFY EXISTING STRUCTURE UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR APPROVED IN ADVANCE BY BOTH THE ARCHITECT AND STRUCTURAL ENGINEER.

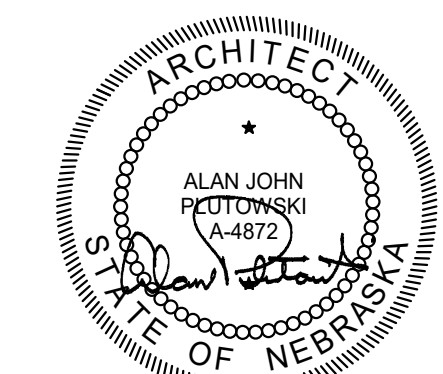
DEMOLITION LEGEND:

- EXISTING TO BE REMOVED
- EXISTING TO REMAIN
- - - - - EXISTING DOOR TO BE REMOVED
- - - - - EXISTING DOOR TO REMAIN

DEMOLITION KEY NOTES:

- D1 REMOVE FLOOR ADHESIVES, CORRECT SLAB IMPERFECTIONS, PROVIDE FLOOR LEVELER AND PREP CONCRETE SLAB TO BE SMOOTH, LEVEL, AND FREE OF IMPERFECTIONS AS REQUIRED FOR FLOOR FINISHES.
- D2 DEMO & REMOVE ALL EXISTING INTERIOR WALLS. THIS SHALL INCLUDE BASES, TRIMS, MIRRORS, POLES, ETC. WHERE APPLICABLE. REMOVE ALL UNUSED CONDUIT & WIRING BACK TO EXISTING ELECTRICAL PANELS.
- D3 DEMO & REMOVE EXISTING INTERIOR DOORS, FRAMES AND HARDWARE.
- D4 EXISTING DEMISING WALL TO REMAIN. PATCH TO MATCH AS NEEDED.
- D5 EXISTING STRUCTURAL STEEL COLUMN TO BE REMOVED IF FEASIBLE. GC TO INVESTIGATE. REMOVE ANY DECORATIVE COVER / WRAPS.
- D6 DEMO & REMOVE EXISTING WATER CLOSETS / URINALS, LAVATORIES, COUNTERTOPS, GRAB BARS AND ALL RESTROOM ACCESSORIES. CAP OR REROUTE PLUMBING TO MEET CODE.
- D7 DEMO & REMOVE EXISTING DRINKING FOUNTAIN. SALVAGE FOR RELOCATION.
- D8 DEMO & REMOVE EXISTING WATER HEATER.
- D9 DEMO & REMOVE EXISTING TOILET STALL PARTITIONS / DOORS.
- D10 DEMO & REMOVE EXISTING SHOWERS, CURTAINS, GYP. BD. CEILING / SOFFITS, AND ANY ASSOCIATED ACCESSORIES.
- D11 DEMO & REMOVE ALL EXISTING VCT FLOOR FINISH & WALL BASE. PATCH, REPAIR AND PREP FLOOR SLAB AS NEEDED TO RECEIVE NEW FINISHES.
- D12 DEMO & REMOVE EXISTING SHELVES / STORE FIXTURES / CASEWORK.
- D13 DEMO & REMOVE EXISTING ACOUSTICAL CEILING TILE & GRID, INCLUDING ANY LIGHT FIXTURES, GELING MOUNTED EQUIPMENT, ETC. IN ITS ENTIRETY. REMOVE EXISTING DUCTWORK, WIRING CONTROLS, ETC. CONNECTED TO CEILING MOUNTED ITEMS BACK TO THE SOURCE (RTU, PANEL, ETC). REMOVE ALL CONDUIT & WIRING BACK TO EXISTING ELECTRICAL PANELS.
- D14 DEMO & REMOVE EXISTING ELECTRICAL PANEL AND TIMBULOCK.
- D15 EXISTING SOFFIT TO REMAIN. PATCH TO MATCH OR REPLACE GYP. BD. SHEATHING.
- D16 DEMO & REMOVE ALL PLUMBING FIXTURES, WATER HEATERS AND ASSOCIATED ACCESSORIES. CAP OR REROUTE PLUMBING TO MEET CODE.
- D17 DEMO & REMOVE ALL ELECTRICAL FIXTURES AND ASSOCIATED ACCESSORIES. REMOVE ALL UNUSED CONDUIT & WIRING BACK TO EXISTING ELECTRICAL PANELS.
- D18 DEMO & REMOVE EXISTING STOREFRONT DOORS, WINDOWS, FRAMES AND PREP AS NEEDED FOR WALL INFILL.
- D19 DEMO & REMOVE EXISTING WOOD FLOOR PLATFORM.
- D20 DEMO & REMOVE EXISTING CEILING MOUNTED EQUIPMENT INCLUDING LIGHT FIXTURES AND DUCTWORK. REMOVE WIRING, CONTROLS, ETC. CONNECTED TO CEILING MOUNTED ITEMS BACK TO EXISTING ELECTRICAL PANELS.
- D21 DEMO & REMOVE EXISTING RAISED PLATFORM / STAGE, RAILING, STAIRS AND ALL ASSOCIATED ITEMS.
- D22 DEMO & REMOVE EXISTING FENCE AND ALL ASSOCIATED PATIO ITEMS.
- D23 CAREFULLY SAWCUT & REMOVE PORTION OF EXISTING CMU WALL AS NEEDED FOR LINTEL AND DOOR OPENING.
- D24 DEMO & REMOVE EXISTING DOOR PAIR, FRAME, ASSOCIATED HARDWARE AND PORTION OF EXISTING CMU WALL AS NEEDED FOR LINTEL AND OVERHEAD COILING DOOR INSTALLATION.
- D25 DEMO & REMOVE EXISTING FURRING WALLS.
- D26 DEMO & REMOVE PORTION OF EXISTING STOREFRONT AND EXTERIOR WALLS AS NEEDED FOR NEW DOORS.
- D27 DEMO & REMOVE EXISTING INTERIOR STOREFRONT DOORS / WINDOWS AND WALLS AT ALCOVES.
- D28 REMOVE ALL PANELING / FURRING, STRIP AND CLEAN INTERIOR FACE OF EXISTING CMU WALLS IN PROPOSED SALES AREA AS NEEDED FOR PAINT FINISH.
- D29 EXISTING CMU BEARING WALL TO REMAIN.
- D30 DEMO & REMOVE EXISTING BITUMINOUS. PREP AS NEEDED FOR CONCRETE INFILL.
- D31 DEMO & REMOVE PORTION OF EXISTING CONCRETE CURB AND SIDEWALK AS NEEDED FOR ADA-COMPLIANT CURB CUT FROM ADA-COMPLIANT ACCESS ASLE. DEMO & REMOVE EXISTING EXTERIOR VINYL CANOPY.
- D32 DEMO & REMOVE ALL EXISTING CARPET FLOOR FINISH AND WALL BASE. PATCH, REPAIR AND PREP FLOOR SLAB AS NEEDED TO RECEIVE NEW FINISHES.
- D33 DEMO & REMOVE EXISTING SLAT WALLS AND FURRING.
- D34 DEMO & REMOVE EXISTING TILE FLOOR AND WALL BASE. PATCH, REPAIR AND PREP FLOOR SLAB AS NEEDED TO RECEIVE NEW FINISHES.
- D35 DEMO & REMOVE EXISTING STOREFRONT DOORS, WINDOWS, FRAMES AND PREP AS NEEDED FOR STOREFRONT REPLACEMENT.
- D36 DEMO & REMOVE EXISTING ROOF MEMBRANE AND INSULATION DOWN TO EXISTING METAL DECK, AND ALL ROOFTOP EQUIPMENT ABOVE AREA OF REMODEL. SEE PLAN FOR EXTENT OF DEMO.
- D37 DEMO & REMOVE ELECTRICAL PANELS AND ELECTRICAL COMPONENTS / WIRING AS NEEDED TO CONDENSE EXISTING SEPARATE SERVICES INTO ONE SERVICE FOR REMODELED SPACE.
- D38 DEMO & REMOVE EXISTING CONCRETE SIDEWALK.
- D39 DEMO & REMOVE EXISTING GYP. BD. CEILING / SOFFIT AND FRAMING.
- D40 DEMO & REMOVE EXISTING E.I.F.S. FINISH AS NEEDED FOR NEW E.I.F.S. FINISH.
- D41 EXISTING DOOR TO REMAIN. CLOSE AND LOCK DOOR. TACK WELD AND SEAL.
- D42 SAWCUT & REMOVE EXISTING CONCRETE RAISED STEP TO PROVIDE FOR FURRING OF WALL ACCESS OPENING FLUSH TO MATCH EXISTING.
- D43 SAWCUT & REMOVE PORTION OF EXISTING CONCRETE SLAB TO PROVIDE FOR NEW POURED CONCRETE RAMP.

Certification



Date: 09/27/24
 I, Alan J. Plutowski, am the Coordinating Professional on this Westgate Retail - ACE Hardware project.

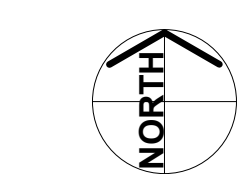
Project Information
WESTGATE PLAZA
ACE HARDWARE

3101 S. 84TH STREET
 OMAHA, NE 68124

Revisions

NO.	DATE	REVISION
1	05/30/24	TENANT REVISIONS
4	10/24/24	CTY COMMENTS

Date: 03/12/2024
 Drawn By: DM
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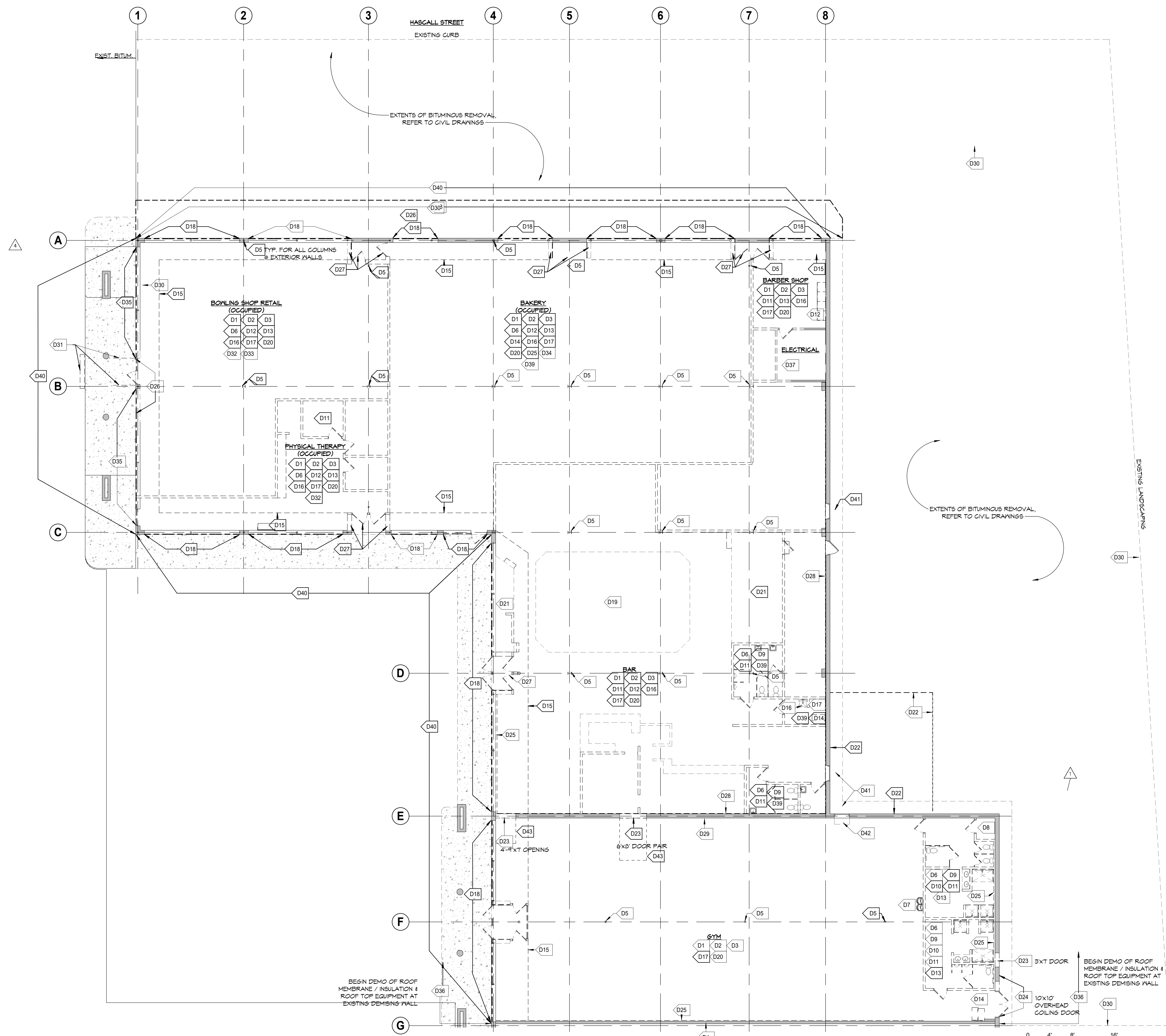


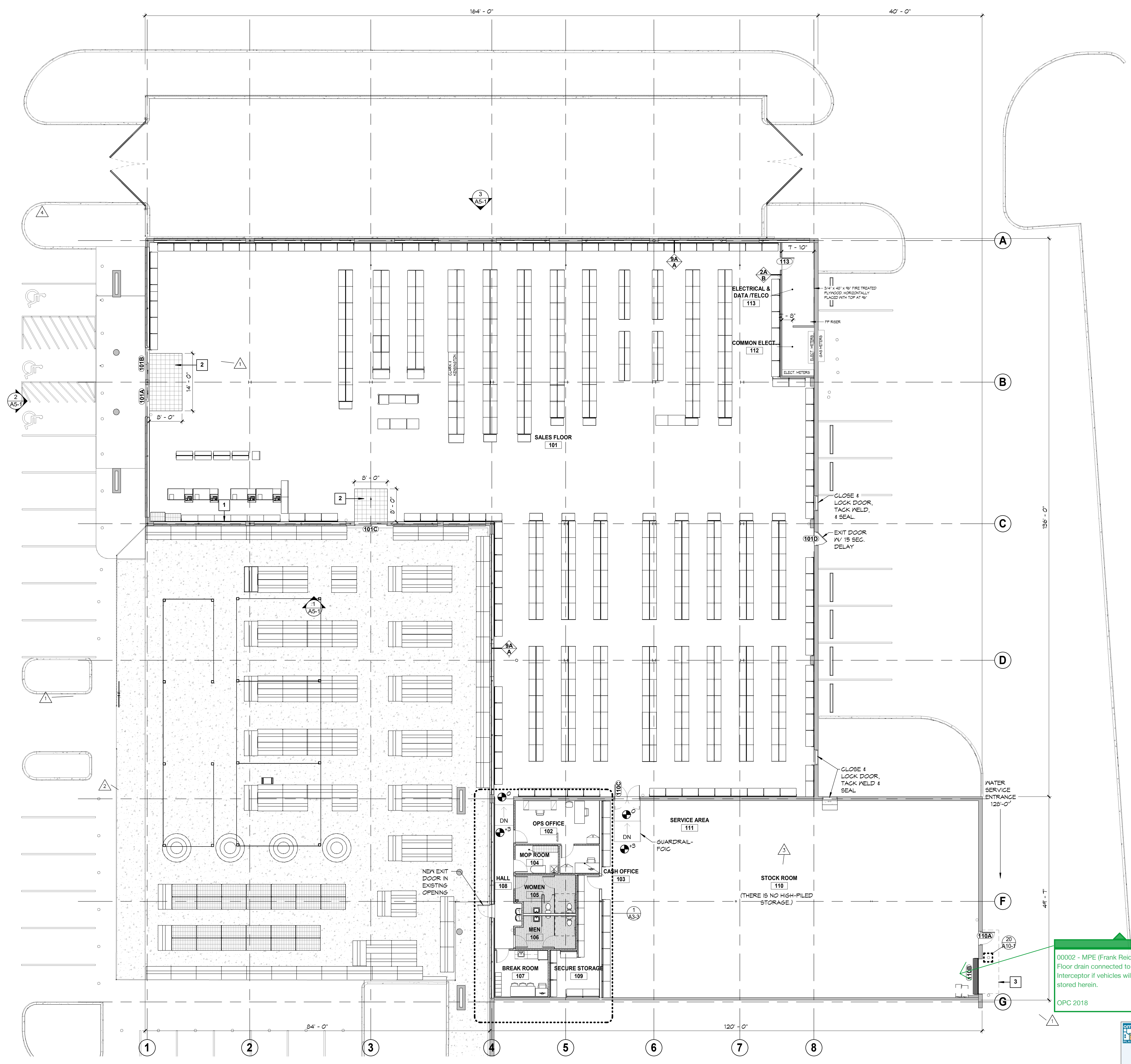
Sheet Information

DEMOLITION PLAN & NOTES

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A2-1



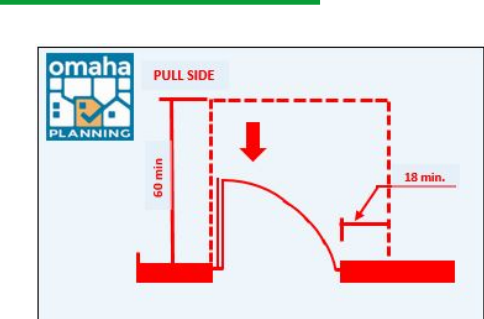


- FLOOR PLAN KEYED NOTES:**
- 1 BARNWOOD FINISH FROM TOP OF BASE TO BOTTOM OF SOFFIT - REQUIRES 1/2" CDX BACKER.
 - 2 WALK-OFF MAT WITH RAMP-STYLE TRANSITION EDGE FRAME.
 - 3 4" WIDE CANVAS AVINGS WITH ALUMINUM FRAME - MIN 12" HT TO BOTTOM - CONFIRM COLOR WITH TENANT.
 - 4 6" DIAMETER CONCRETE-FILLED STEEL PIPE BOLLARDS WITH DECORATIVE COVERS AT JAMBS OF DOCK DOORS.

- KEY TO WALL TYPES AND DOORS:**
- EXISTING WALL TO BE REMOVED
 - - - - - ITEMS TO BE DEMOLISHED SHOWN DASHED
 - EXISTING WALL TO REMAIN
 - NEW STUD WALL - TYP. 2A/B U.N.O.
 - 1-HR RATED WALL
 - EXISTING DOOR # FRAME TO BE DEMOLISHED
 - EXISTING DOOR # FRAME TO REMAIN
 - NEW OR RELOCATED DOOR # FRAME

- GENERAL NOTES:**
- ◆ WALL TYPES REFER TO SHEET A10-1
 - INDICATES CONCRETE CURB. REFER TO — (A10-1)
 - 101A REFER TO SHEET A10-1 FOR DOOR SCHEDULE
 - FD FLOOR DRAIN, REFER TO MECHANICAL CONSTRUCTION JOINTS, REFER TO DETAIL (A10-1)
 - FE FIRE EXTINGUISHER - BRACKET MOUNT W/ SIGN TO MEET CODE. VERIFY ALL LOCATIONS W/ FIRE MARSHAL.
 - DIMENSIONS INTERIOR - ALL DIMENSIONS ARE TO CENTERLINE OF STUDS (UNLESS NOTED OTHERWISE)
 - EXTERIOR - ALL DIMENSIONS ARE TO EXTERIOR FACE OF SHEATHING OR FACE OF MASONRY (UNLESS NOTED OTHERWISE).

00002 - MPE (Frank Reida)
 Floor drain connected to internal Type I Interceptor if vehicles will be parked or stored herein.
 OPC 2018



Certification



Date: 09/27/24
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Project Information
 WESTGATE PLAZA
 ACE HARDWARE

3401 S. 84TH STREET
 OMAHA, NE 68124

Revisions

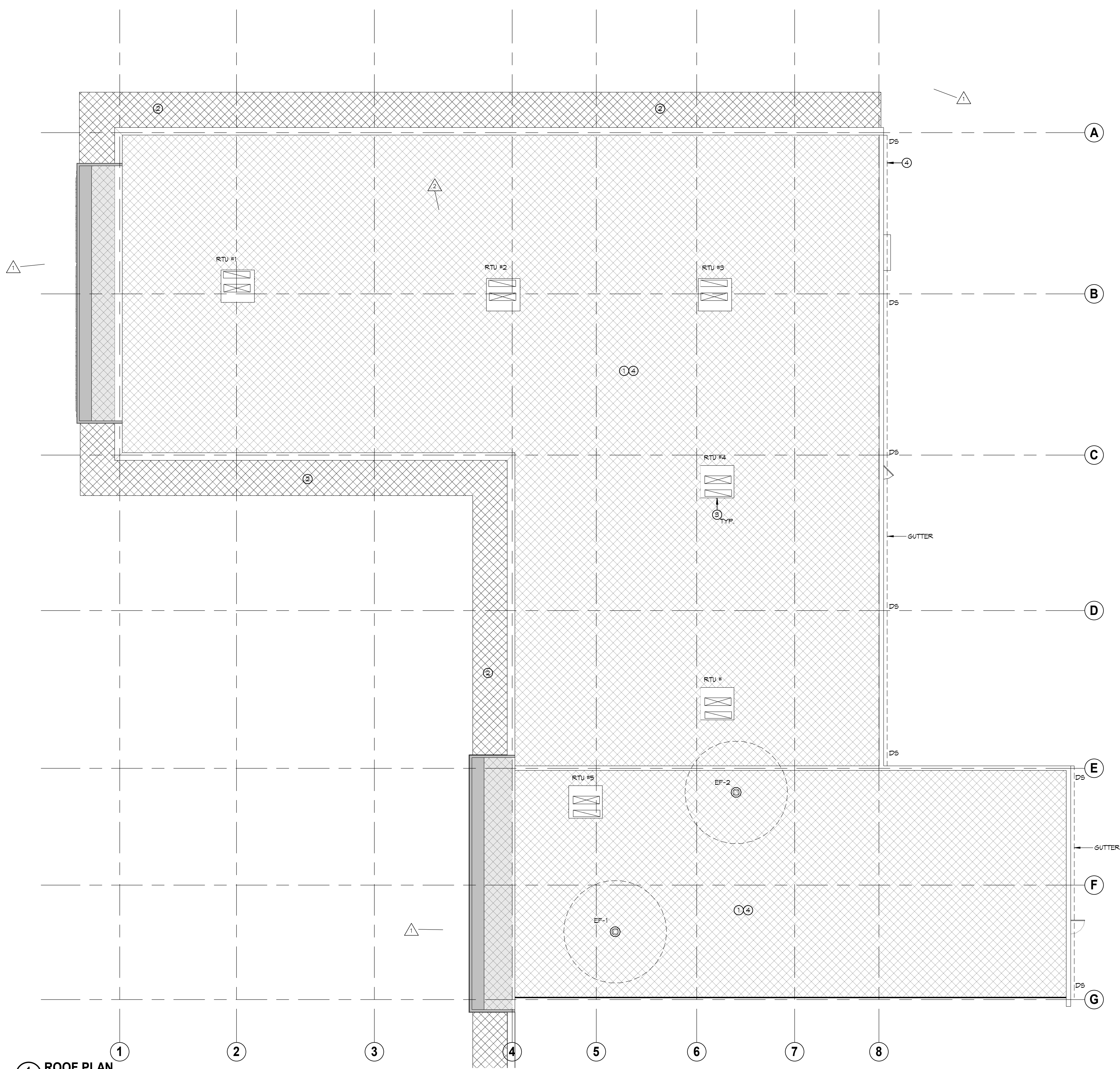
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2	07/11/24	TENANT REVISIONS
3	09/27/24	CITY COMMENTS
4	10/24/24	CITY COMMENTS

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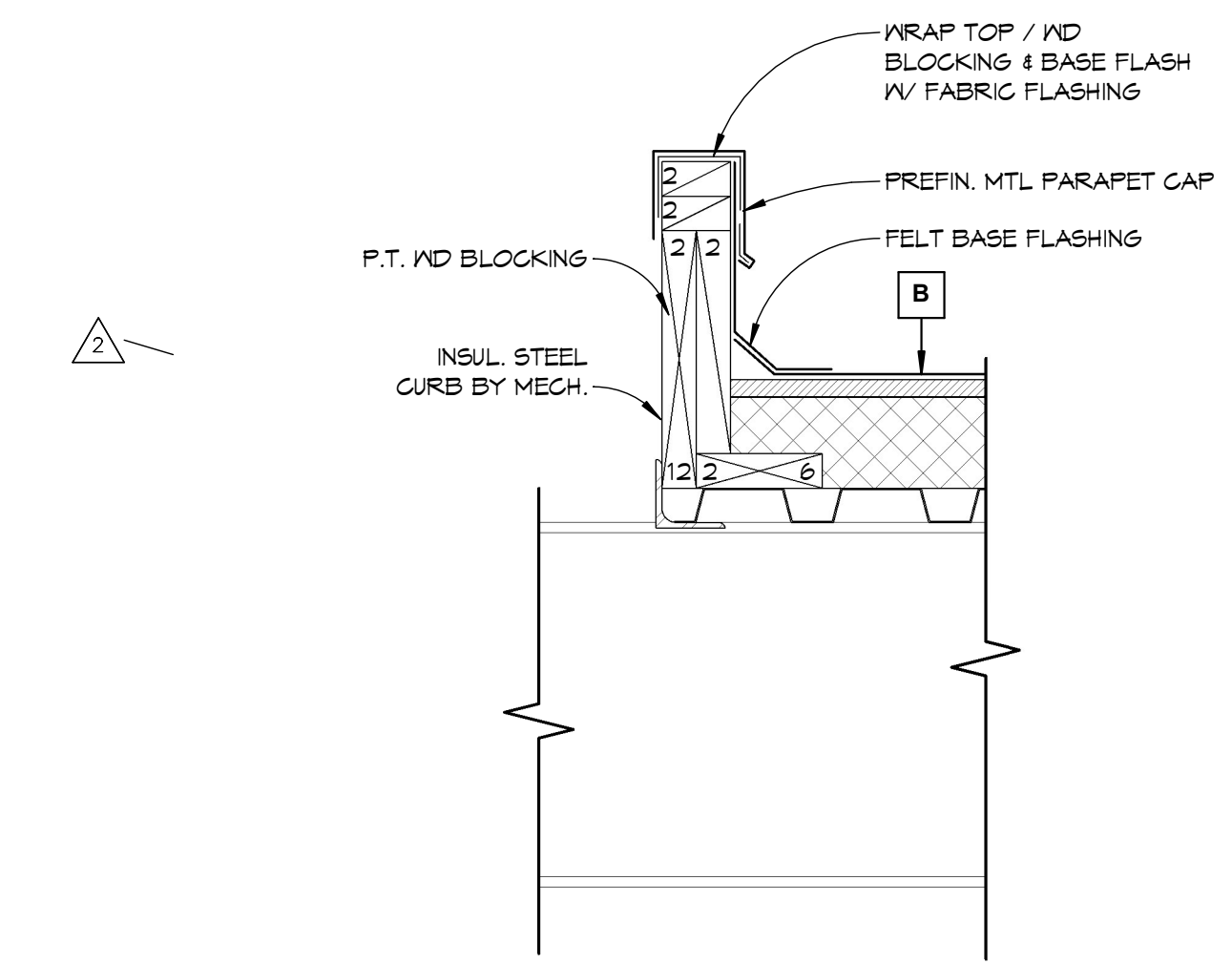


Sheet Information

FLOOR PLAN
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1
A3-2
ROOF PLAN
 3/32" = 1'-0"



2
A3-2
MECH. EQUIP. CURB @ OPENING
 1/12" = 1'-0"

ROOFING KEYED NOTES:

- ① REMOVE ALL EXISTING ROOFING & INSULATION FOR REPLACEMENT
- ② REMOVE ALL EXISTING ROOFING & INSULATION IN CANOPES FOR REPLACEMENT WITH NEW ROOFING. MAINTAIN EXISTING DRAIN LOCATIONS.
- ③ TYPICAL RTU LOCATION IN/ ROOF CURB. SEE MECHANICAL.
- ④ FIELD VERIFY EXISTING ROOF DRAIN, DOWNSPOUTS & OTHER COMPONENT. MAINTAIN EXISTING SYSTEM DESIGN & REPLACE EXISTING EXPOSED COMPONENTS & IN SIMILAR LOCATIONS.

GENERAL ROOF NOTES:

- 1. AVERAGE ROOF INSULATION TO EXCEED CURRENT STATE CODE REQUIREMENTS. SEE SPEC.
- 2. MECHANICAL INFORMATION SHOWN IS INTENDED ONLY TO COMMUNICATE DESIGN INTENT. REFER TO MECHANICAL DRAWINGS FOR DETAILED INFORMATION. COORDINATE / VERIFY ALL EQUIPMENT LOCATIONS WITH MECHANICAL DRAWINGS.
- 3. CONNECT DOWNSPOUTS TO STORM SEWER. REFER TO CIVIL.
- 4. REFER TO CIVIL FOR GRADE CONDITIONS & DRAINAGE.

ROOF LEGEND

- EXTENT OF ROOF REPLACEMENT
- SLOPING STRUCTURE WITH RIGID INSULATION & MEMBRANE ROOFING
 - DSG DOWNSPOUT TO EMPTY AT GRADE (18 A103) SIM
 - DS DOWNSPOUT TIED INTO EXISTING STORM SEWER (18 A103)
 - S EXISTING SCUPPER IN/ MODIFIED DOWNSPOUT
 - ← DRAINAGE ARROW

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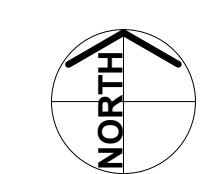
Project Information
WESTGATE PLAZA
ACE HARDWARE

3401 S. 84TH STREET
 OMAHA, NE 68124

Revisions

- 1 05/30/24 TENANT REVISIONS
- 2 07/11/24 TENANT REVISIONS

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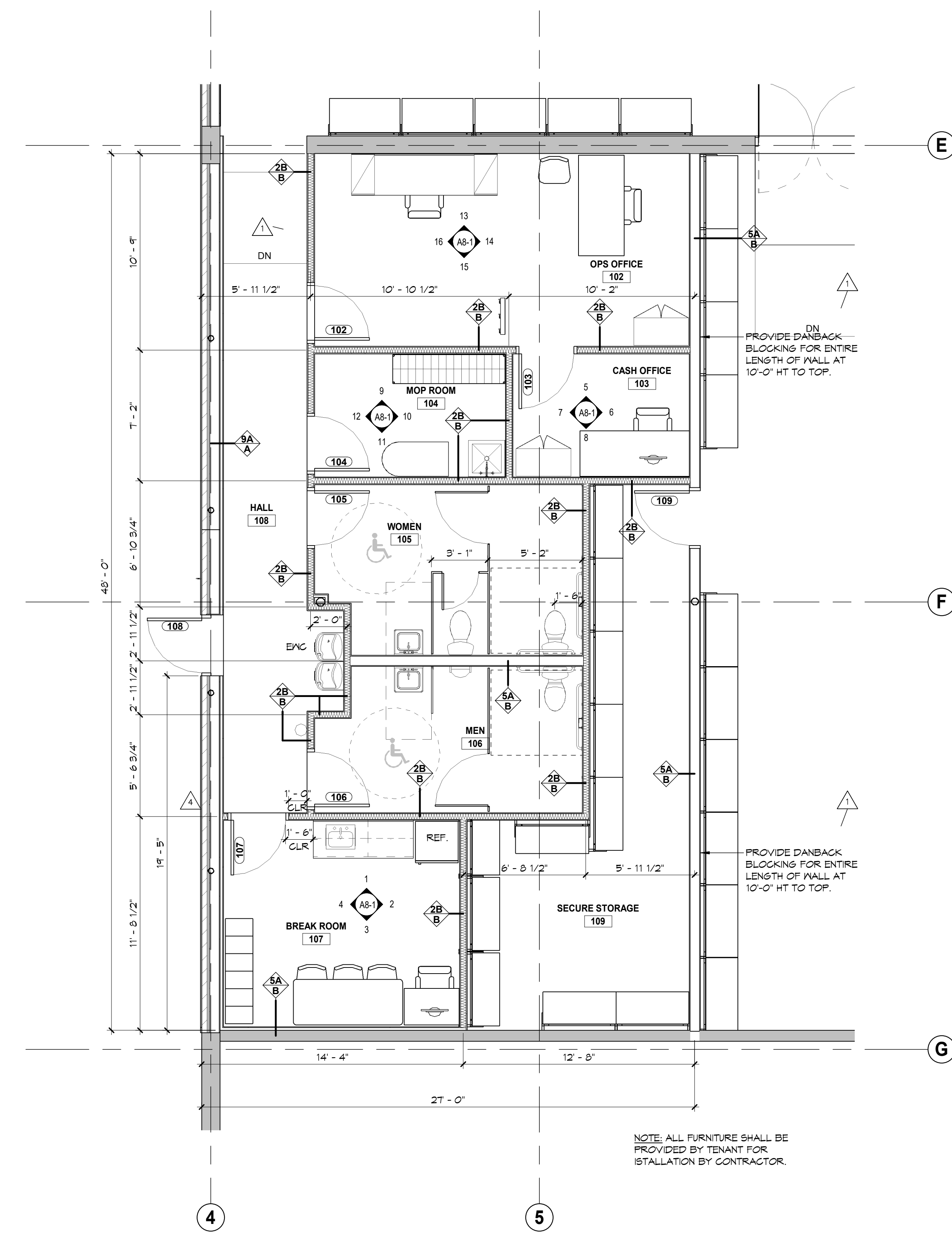


Sheet Information

ROOF PLAN & DETAILS

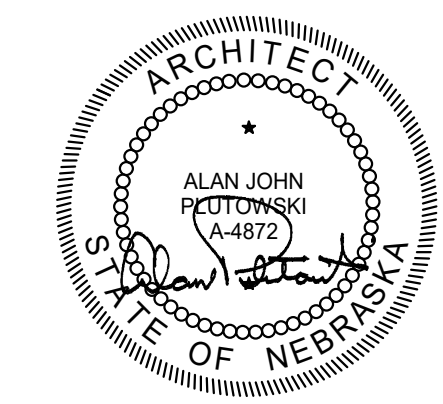
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A3-2



1 ENLARGED FLOOR PLAN
 A3-3 1/4" = 1'-0"

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ACE HARDWARE

3401 S. 84TH STREET
 OMAHA, NE 68124

Revisions

1	09/30/24	TENANT REVISIONS
4	10/24/24	CITY COMMENTS

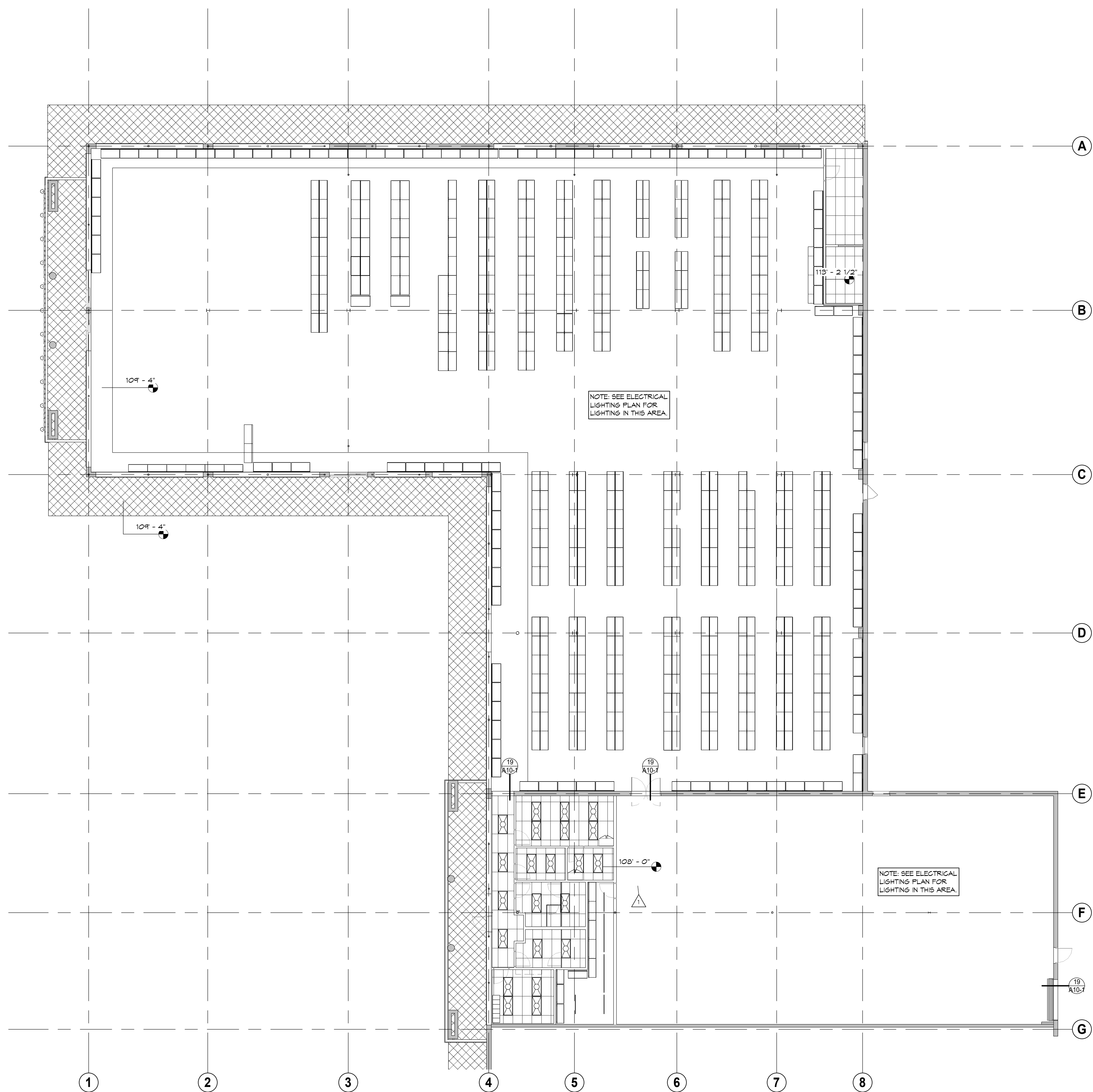
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 Job Number: 00324



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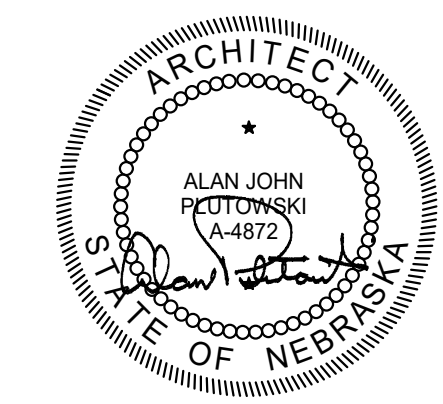
ENLARGED PLAN

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CEILING LEGEND	
	ACT-1: 2x4 ACOUSTIC CEILING TILE AND GRID SYSTEM
	GYF. BD. CEILING @ BOTTOM OF STRUCTURE
	GYF. BD. SOFFIT
	EXISTING EXTERIOR LINEAR WOOD SOFFIT
	EXTERIOR WALL SCOFF
	2x4 LAY-IN LED LIGHT FIXTURE
	4' CEILING MOUNTED LED STRIP LIGHT
	8' CEILING MOUNTED LED STRIP LIGHT

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ACE HARDWARE

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Revisions

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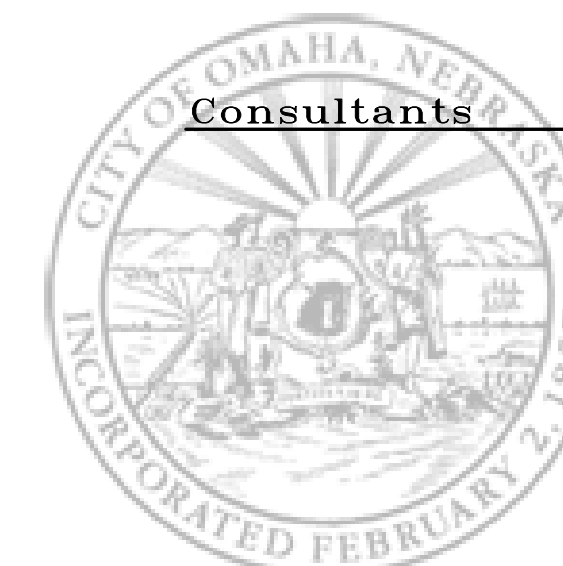


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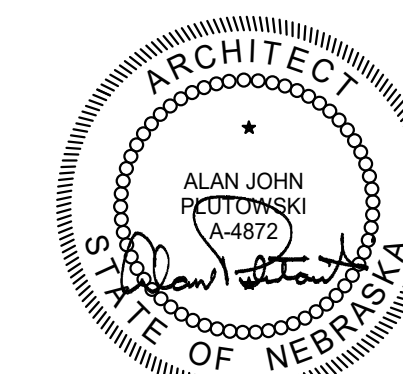
REFLECTED CEILING PLAN

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00018 - URBA (Jed Moulton)
 All rooftop mechanical equipment shall
 be screened from view per section
 55-935(d)(7)a. Field verify.



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Revisions

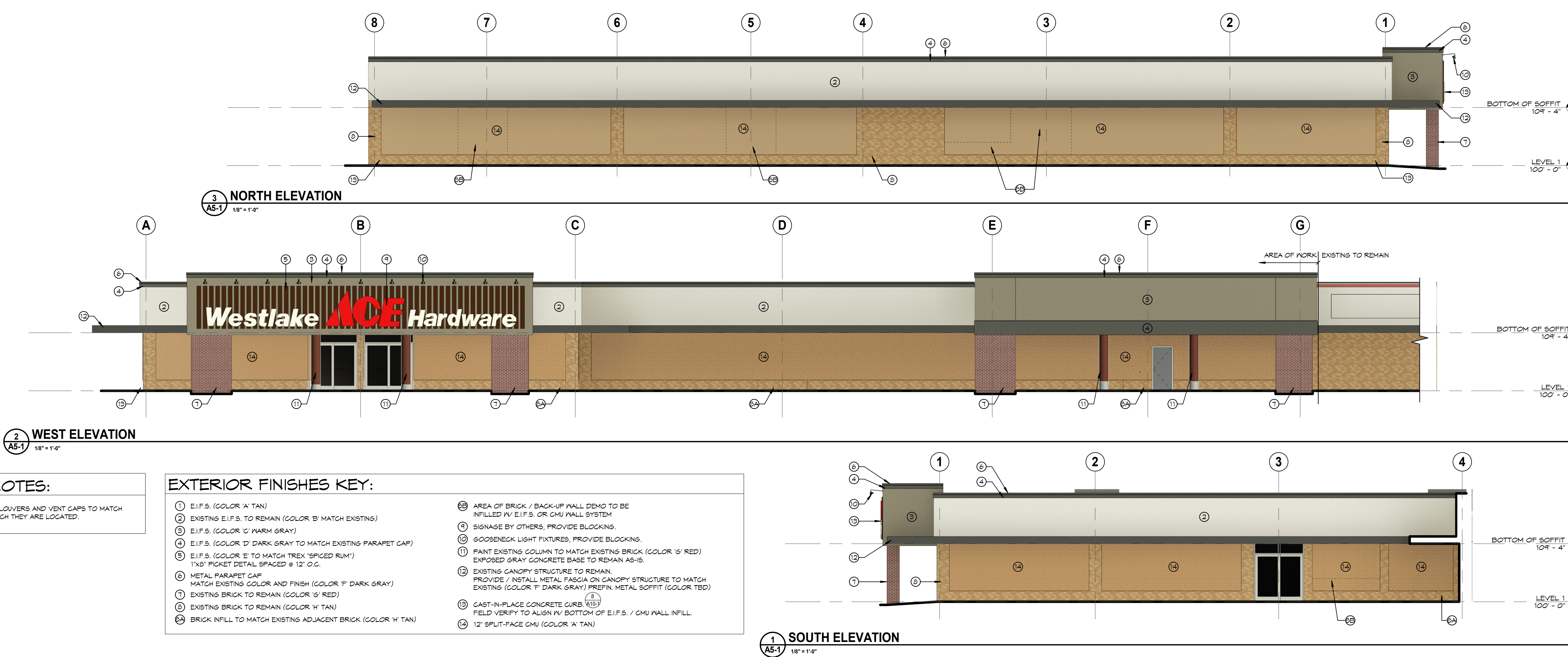
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Sheet Information

EXTERIOR ELEVATIONS

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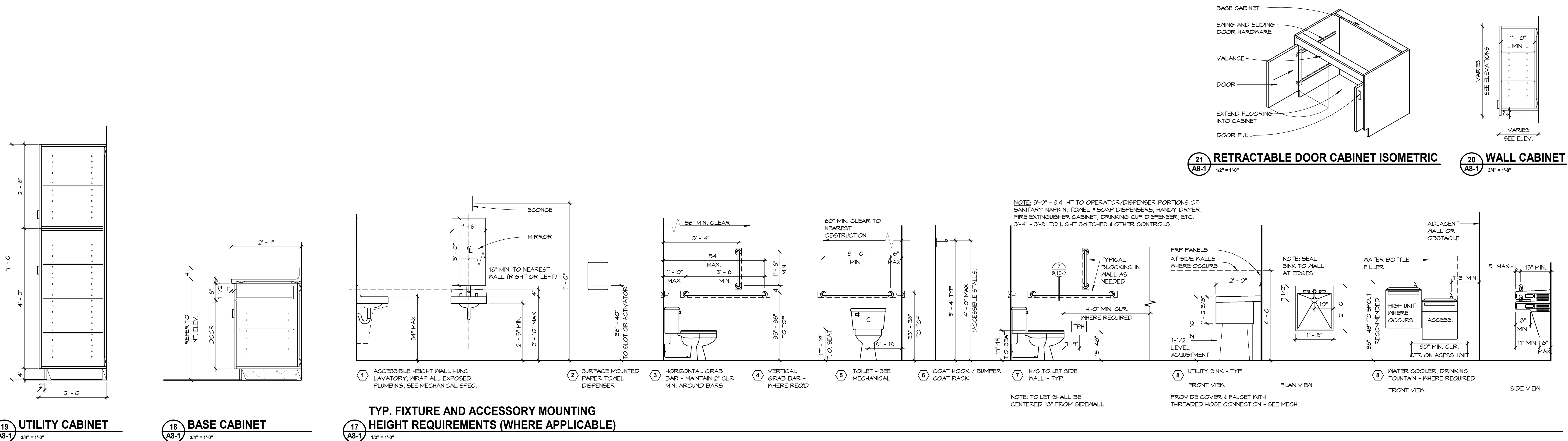
A5-1



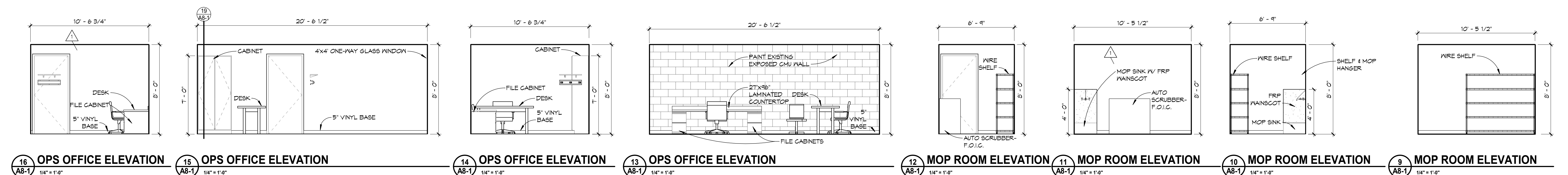
GENERAL NOTES:
 1. PAINT ALL MECHANICAL LOUVERS AND VENT CAPS TO MATCH EXTERIOR FINISH IN WHICH THEY ARE LOCATED.

EXTERIOR FINISHES KEY:

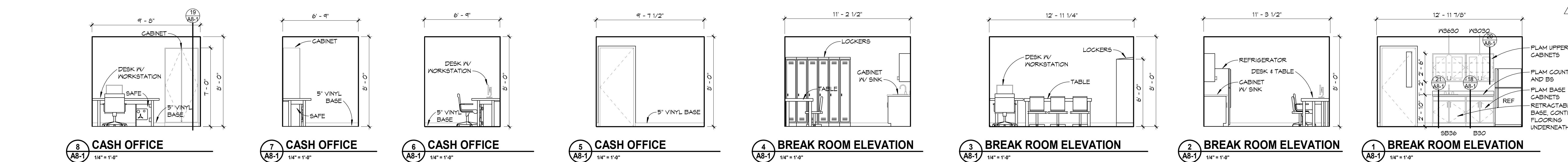
① E.I.F.S. (COLOR 'A' TAN)	⑭ 12" SPLIT-FACE CMU (COLOR 'A' TAN)
② EXISTING E.I.F.S. TO REMAIN (COLOR 'B' MATCH EXISTING)	⑮ AREA OF BRICK / BACK-UP WALL DEMO TO BE INFILLED W/ E.I.F.S. OR CMU WALL SYSTEM
③ E.I.F.S. (COLOR 'C' WARM GRAY)	⑯ SIGNAGE BY OTHERS, PROVIDE BLOCKING.
④ E.I.F.S. (COLOR 'D' DARK GRAY TO MATCH EXISTING PARAPET CAP)	⑰ GOOSENECK LIGHT FIXTURES, PROVIDE BLOCKING.
⑤ E.I.F.S. (COLOR 'E' TO MATCH TREX "SPICED RUM") 1"x8" PICKET DETAIL SPACED @ 12" O.C.	⑱ PAINT EXISTING COLUMN TO MATCH EXISTING BRICK (COLOR 'G' RED) EXPOSED GRAY CONCRETE BASE TO REMAIN AS-IS
⑥ METAL PARAPET CAP MATCH EXISTING COLOR AND FINISH (COLOR 'F' DARK GRAY)	⑳ EXISTING CANOPY STRUCTURE TO REMAIN. PROVIDE / INSTALL METAL FASCIA ON CANOPY STRUCTURE TO MATCH EXISTING (COLOR 'F' DARK GRAY) PREFIN. METAL SOFFIT (COLOR TBD)
⑦ EXISTING BRICK TO REMAIN (COLOR 'G' RED)	㉑ CAST-IN-PLACE CONCRETE CURB (12") FIELD VERIFY TO ALIGN W/ BOTTOM OF E.I.F.S. / CMU WALL INFILL.
⑧ EXISTING BRICK TO REMAIN (COLOR 'H' TAN)	㉒ 12" SPLIT-FACE CMU (COLOR 'A' TAN)
⑨ EXISTING BRICK TO REMAIN (COLOR 'I' TAN)	
⑩ BRICK INFILL TO MATCH EXISTING ADJACENT BRICK (COLOR 'H' TAN)	



19 UTILITY CABINET 3/4" = 1'-0"
18 BASE CABINET 3/4" = 1'-0"
17 TYP. FIXTURE AND ACCESSORY MOUNTING HEIGHT REQUIREMENTS (WHERE APPLICABLE) 1/2" = 1'-0"

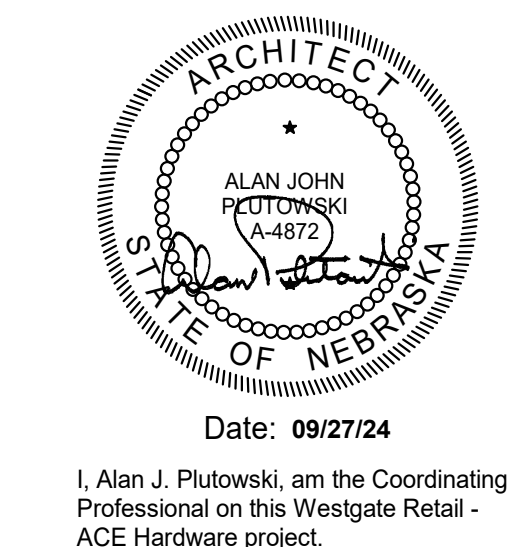


16 OPS OFFICE ELEVATION 1/4" = 1'-0"
15 OPS OFFICE ELEVATION 1/4" = 1'-0"
14 OPS OFFICE ELEVATION 1/4" = 1'-0"
13 OPS OFFICE ELEVATION 1/4" = 1'-0"
12 MOP ROOM ELEVATION 1/4" = 1'-0"
11 MOP ROOM ELEVATION 1/4" = 1'-0"
10 MOP ROOM ELEVATION 1/4" = 1'-0"
9 MOP ROOM ELEVATION 1/4" = 1'-0"



8 CASH OFFICE 1/4" = 1'-0"
7 CASH OFFICE 1/4" = 1'-0"
6 CASH OFFICE 1/4" = 1'-0"
5 CASH OFFICE 1/4" = 1'-0"
4 BREAK ROOM ELEVATION 1/4" = 1'-0"
3 BREAK ROOM ELEVATION 1/4" = 1'-0"
2 BREAK ROOM ELEVATION 1/4" = 1'-0"
1 BREAK ROOM ELEVATION 1/4" = 1'-0"

Certification



Date: 09/27/24

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Project Information

WESTGATE PLAZA ACE HARDWARE

3101 S. 84TH STREET
 OMAHA, NE 68124

Revisions

1	09/30/24	TENANT REVISIONS
4	10/24/24	CITY COMMENTS

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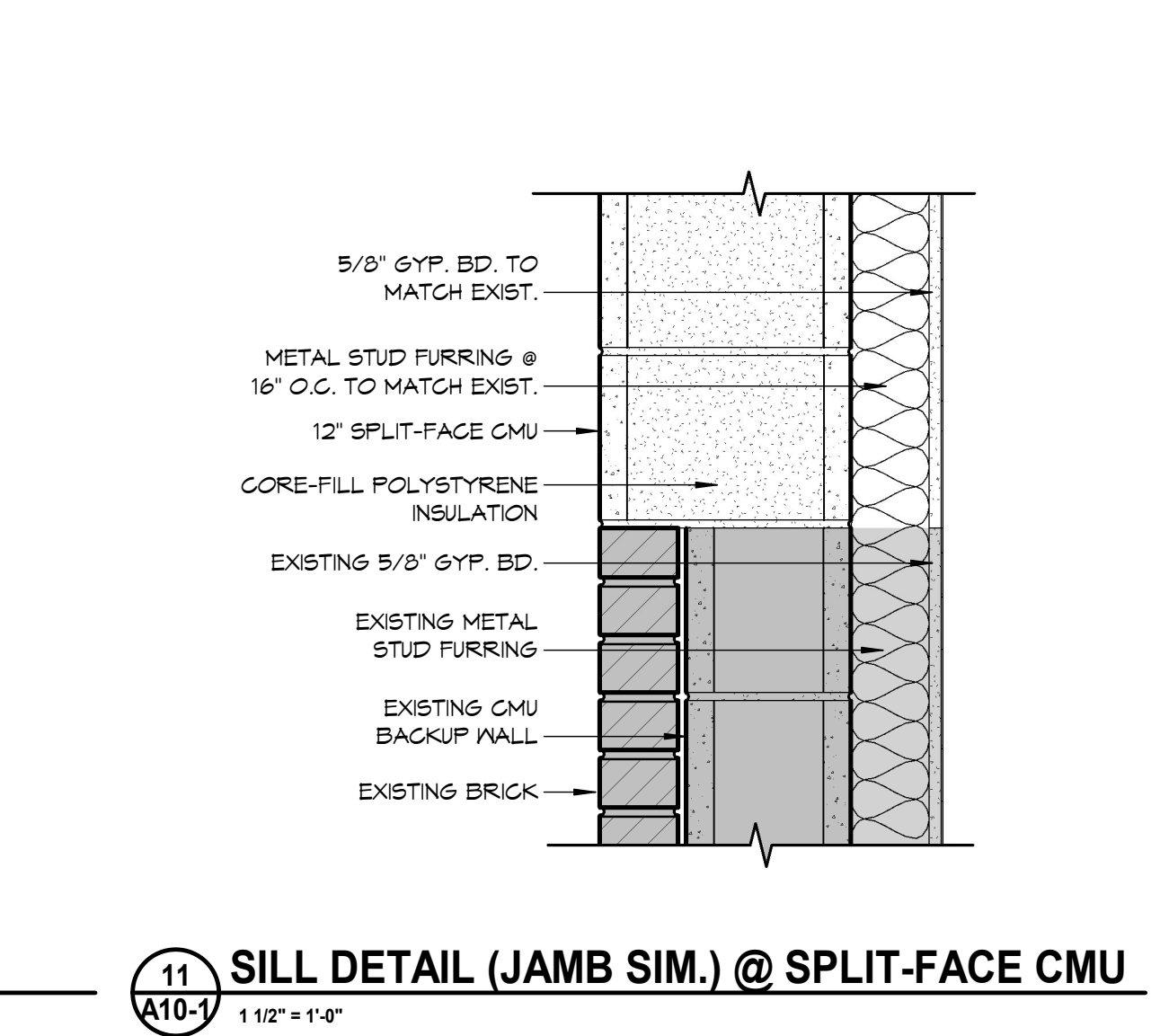
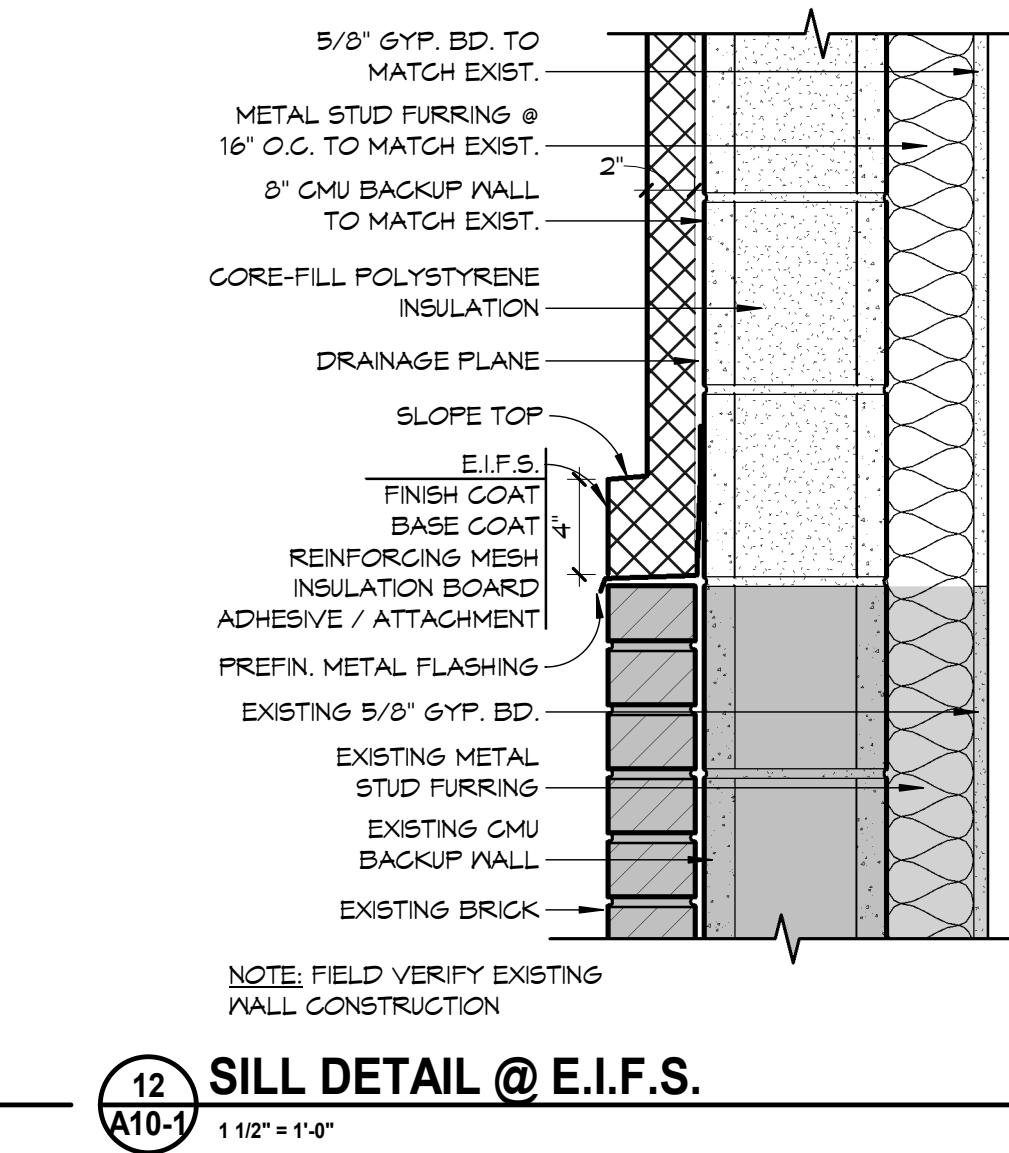
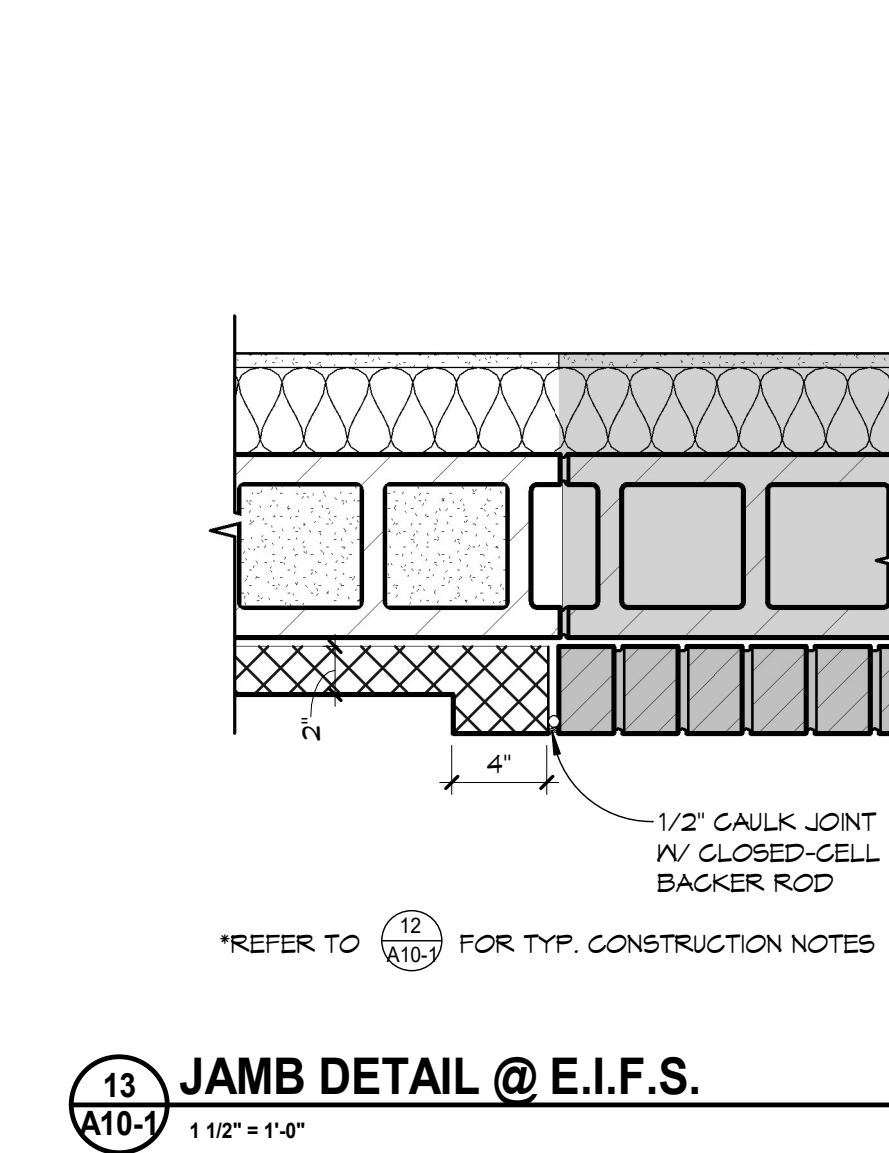
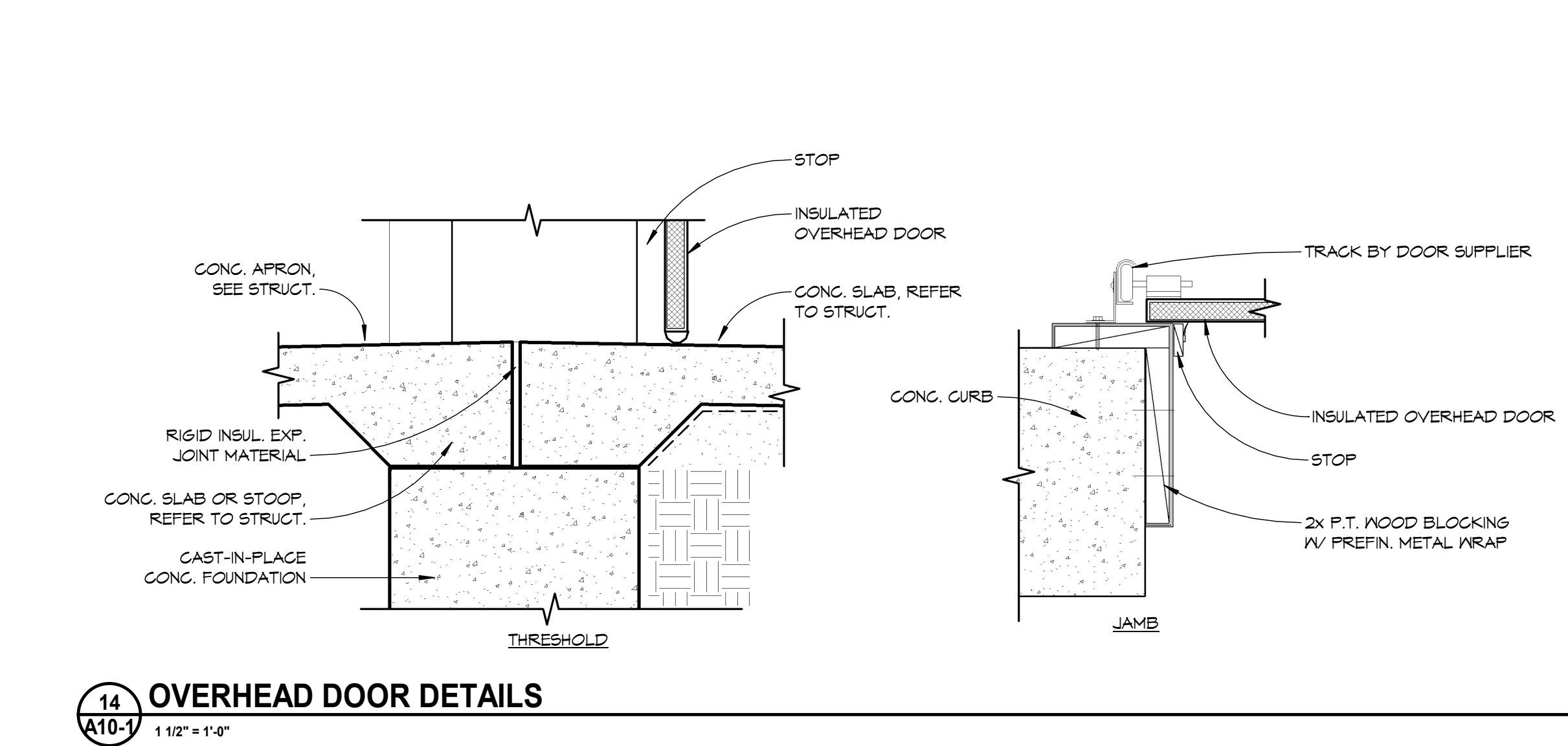
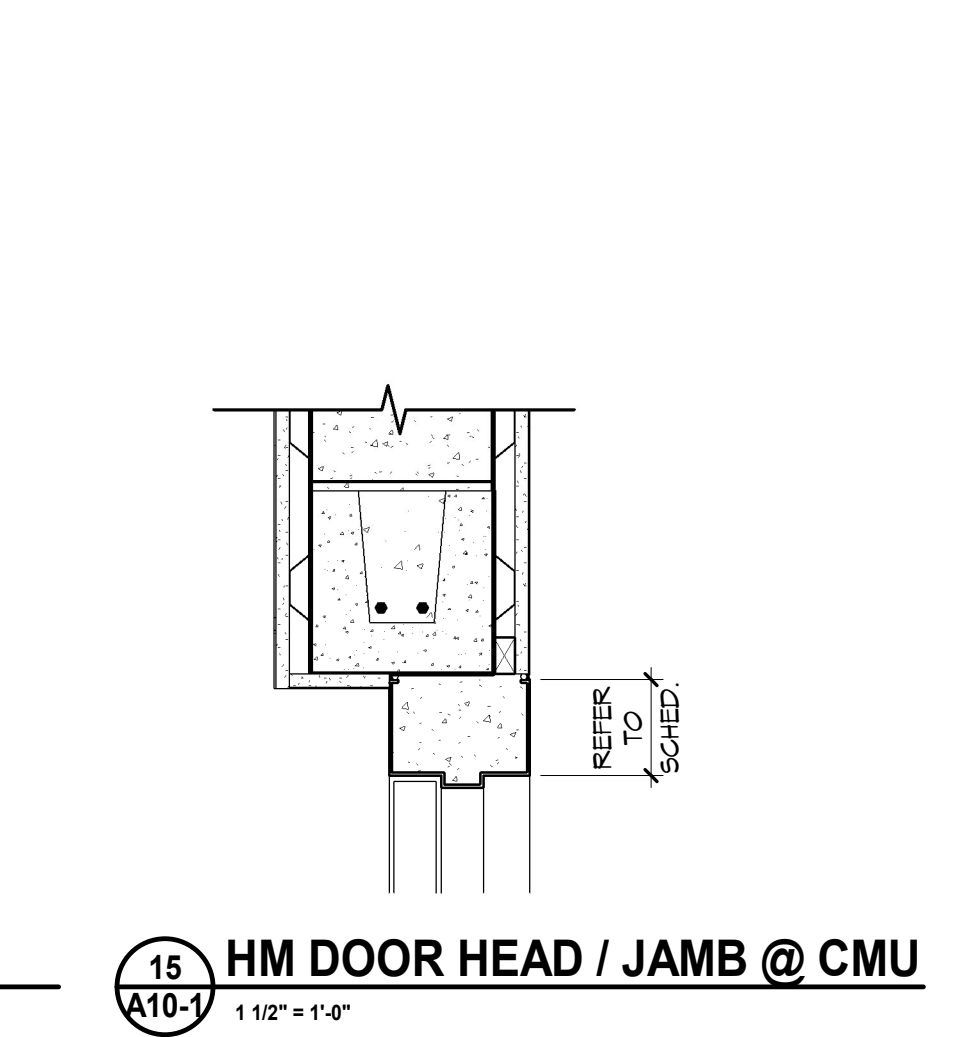
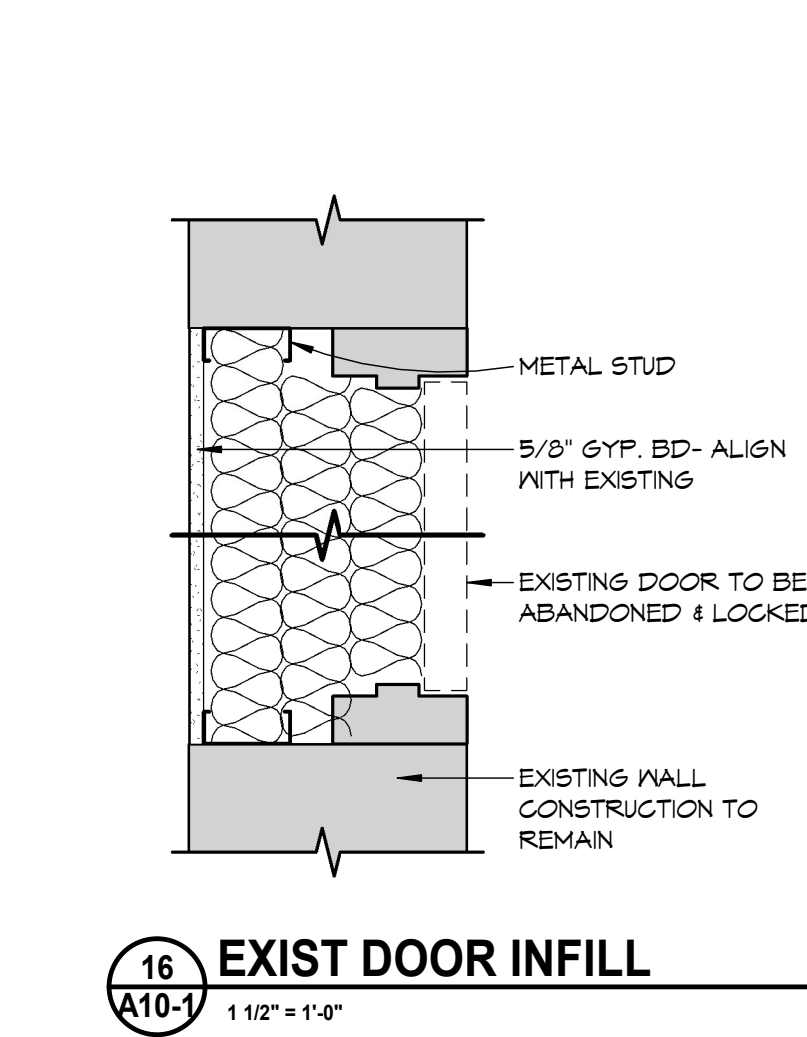
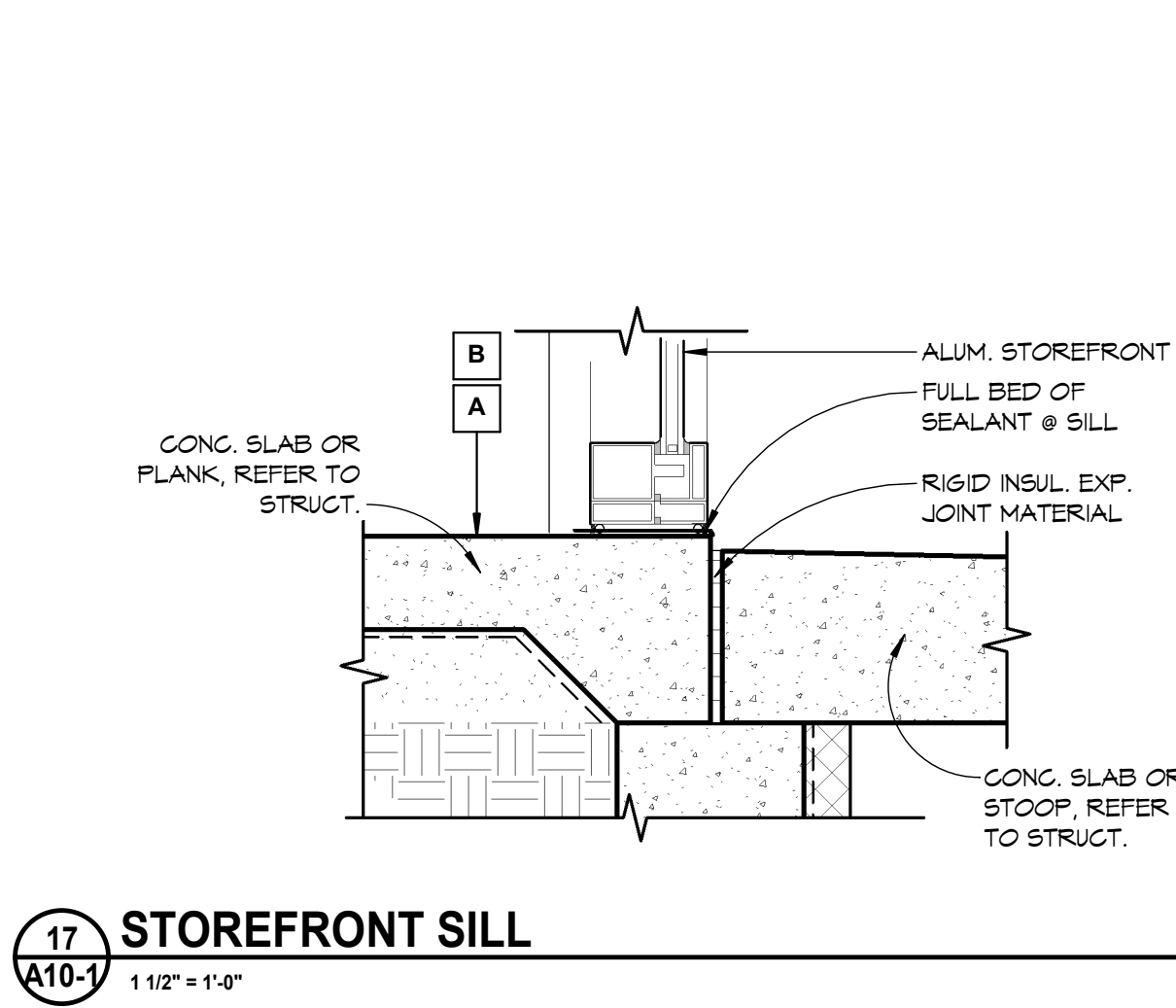
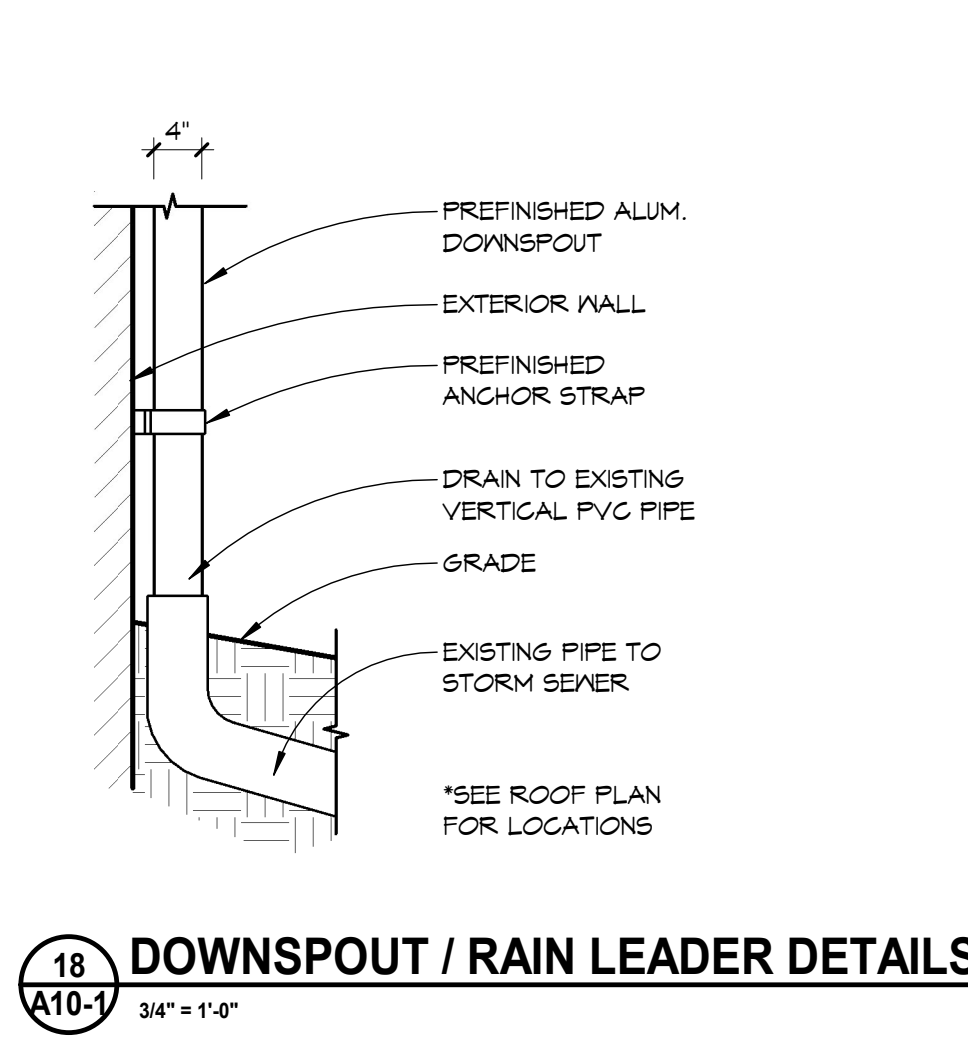
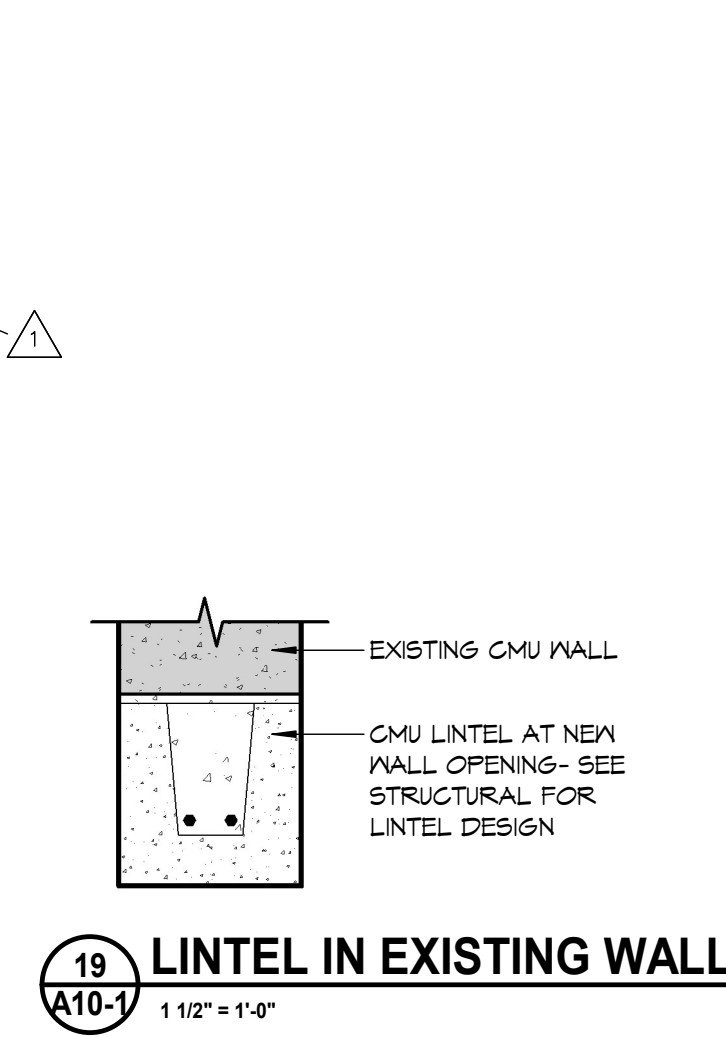
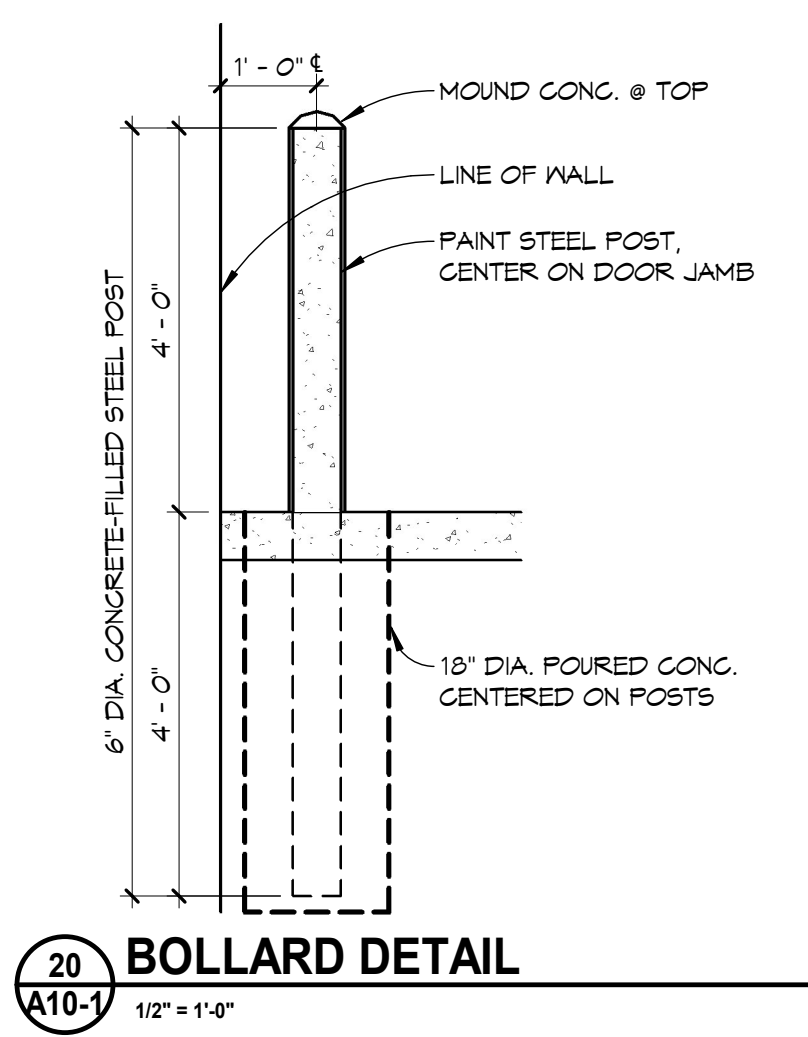
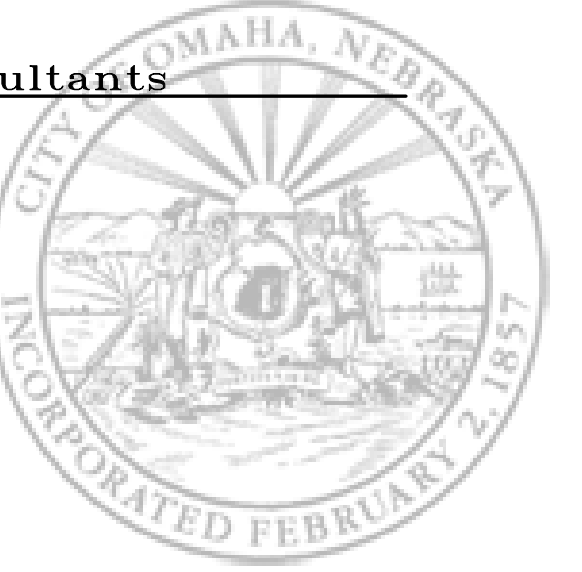
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INTERIOR ELEVATIONS

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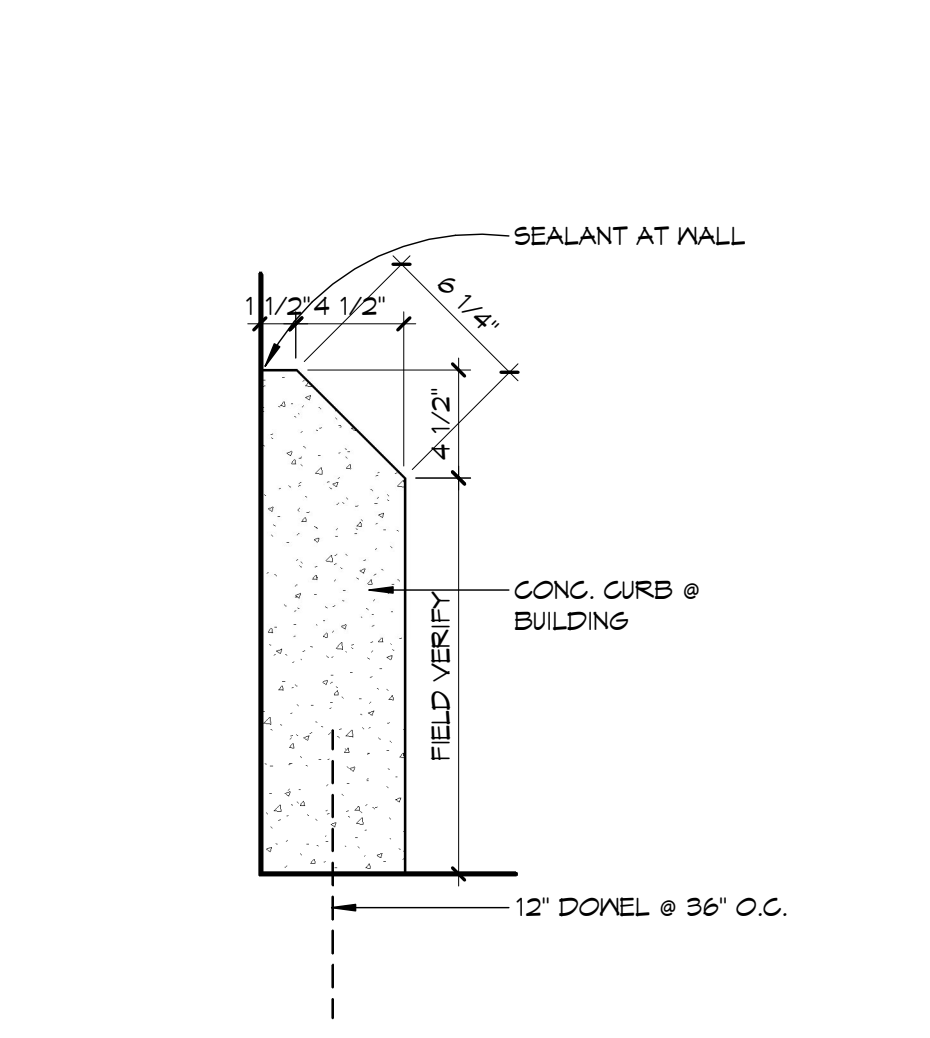
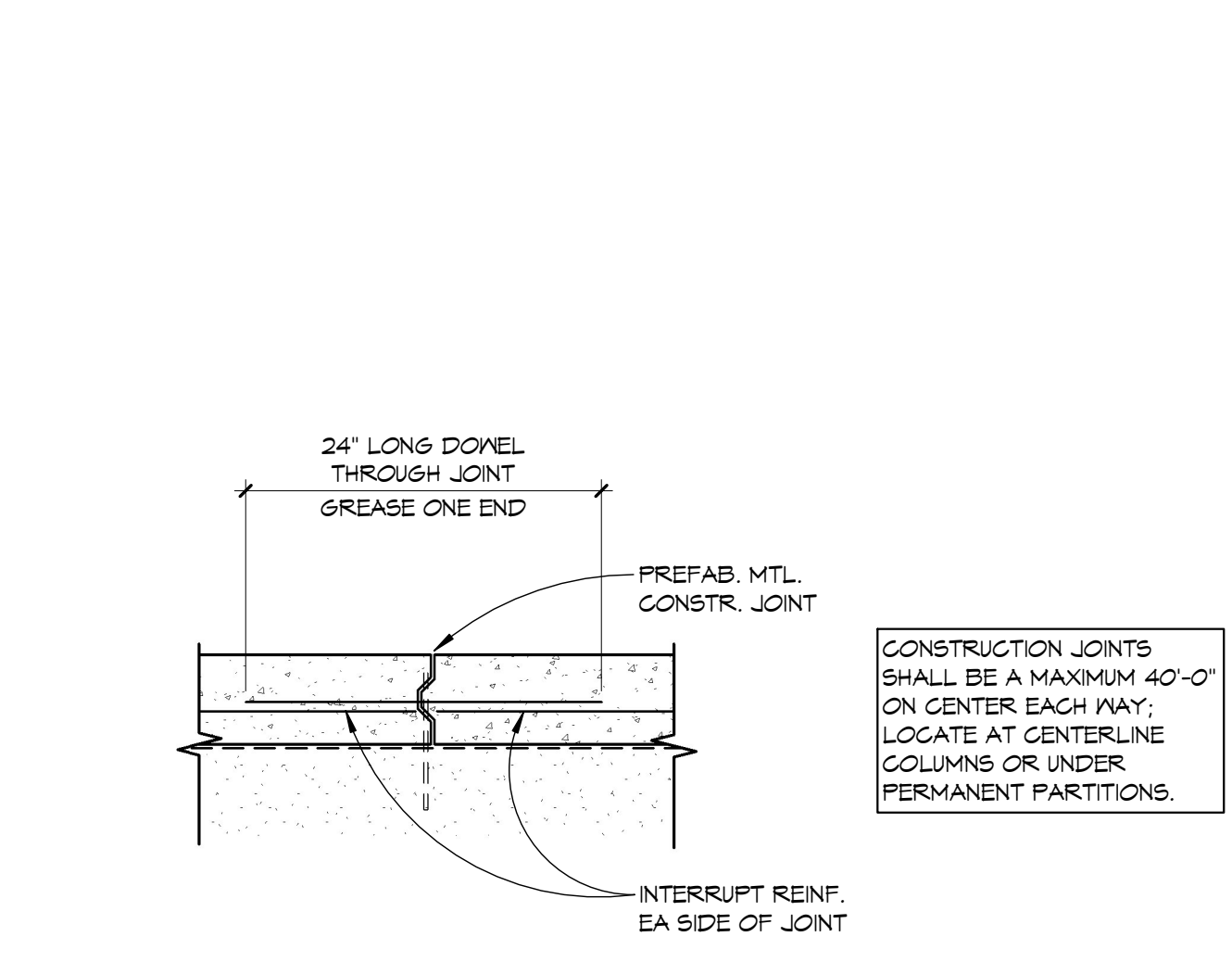
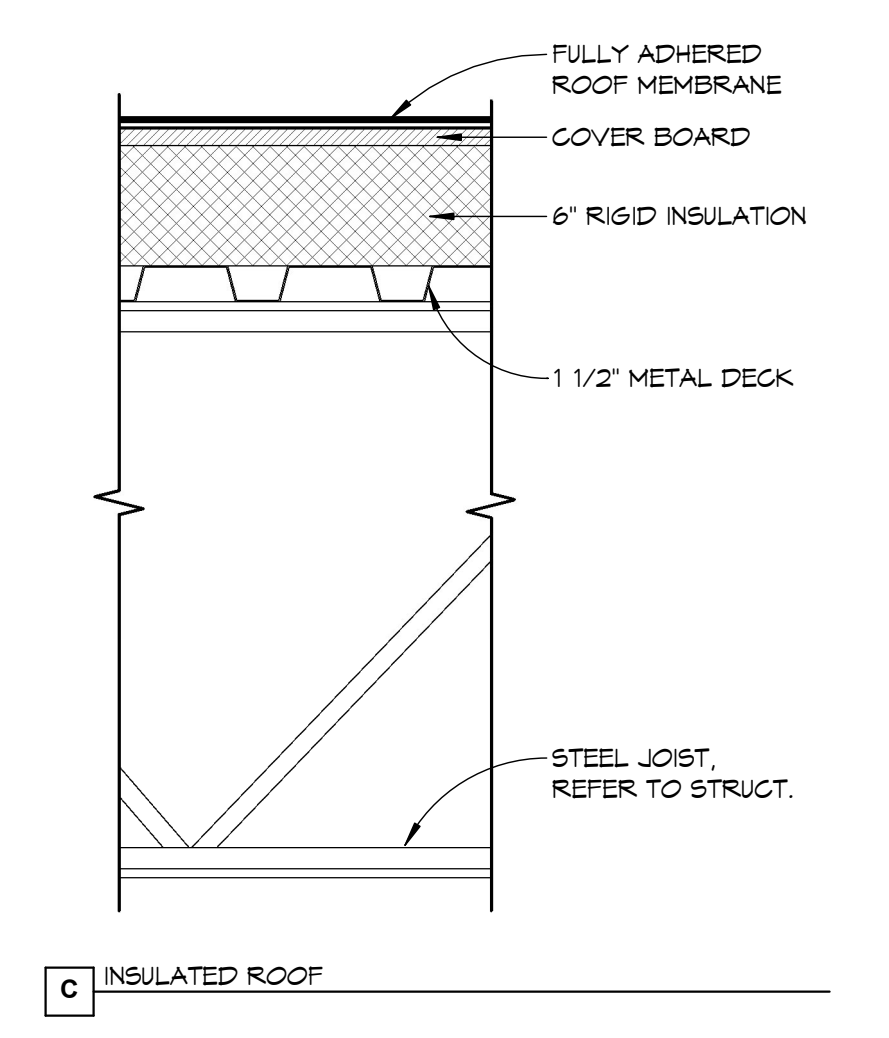
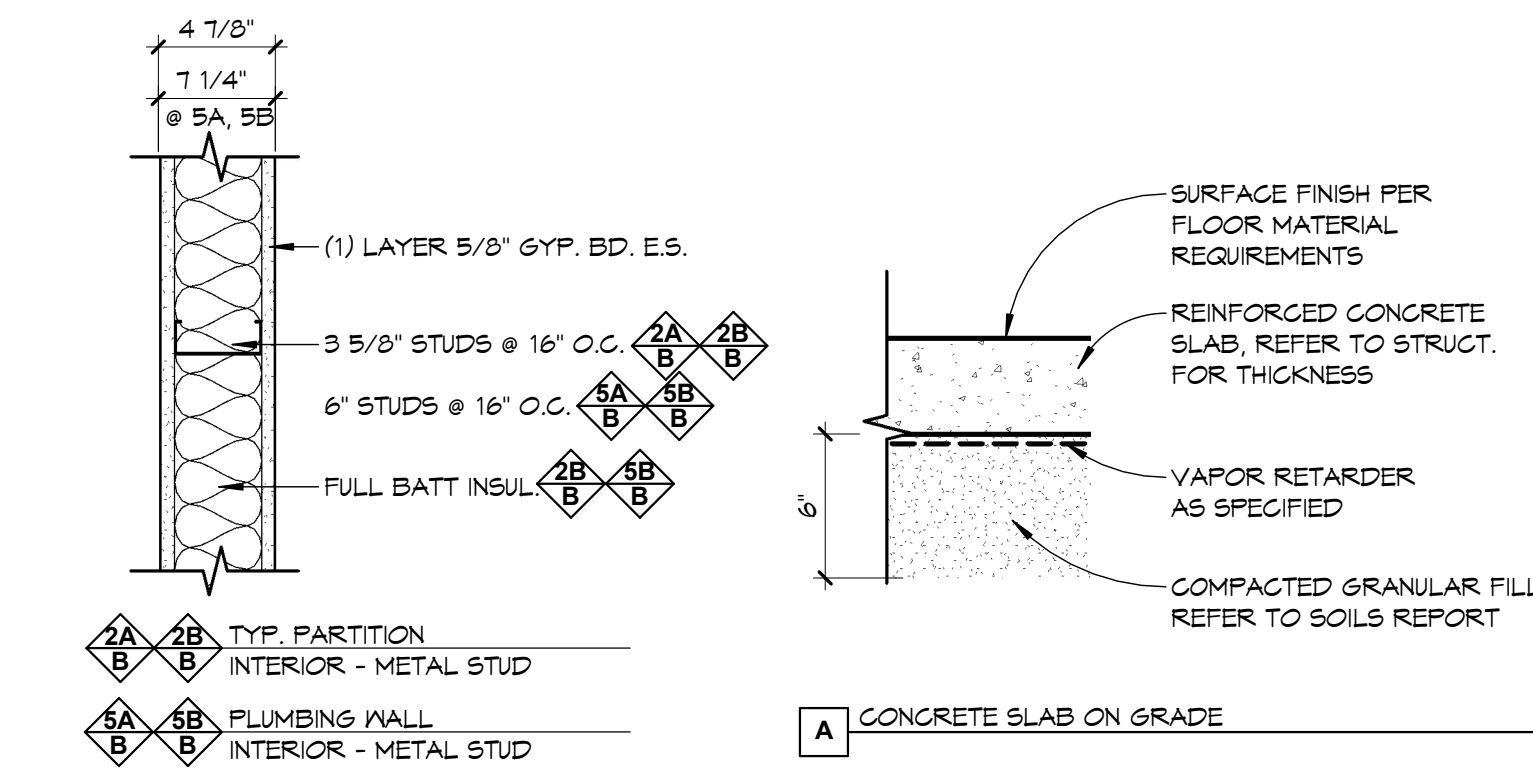
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Consultants

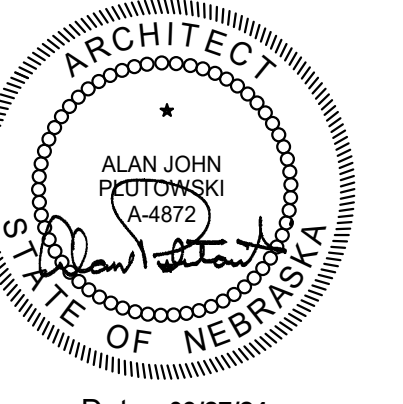


WALL TYPE / ASSEMBLY NOTES:

- PARTITION TYPE INDICATORS ARE NOTED ON FLOOR PLANS.
- FLOOR & ROOF / CEILING ASSEMBLY INDICATORS ARE NOTED ON WALL SECTIONS.
- BLOCKING/BACKING IS REQUIRED AT WALL MOUNTED EQUIPMENT, REFER TO DETAIL (A10-7)



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 OMAHA, NE 68124

Revisions

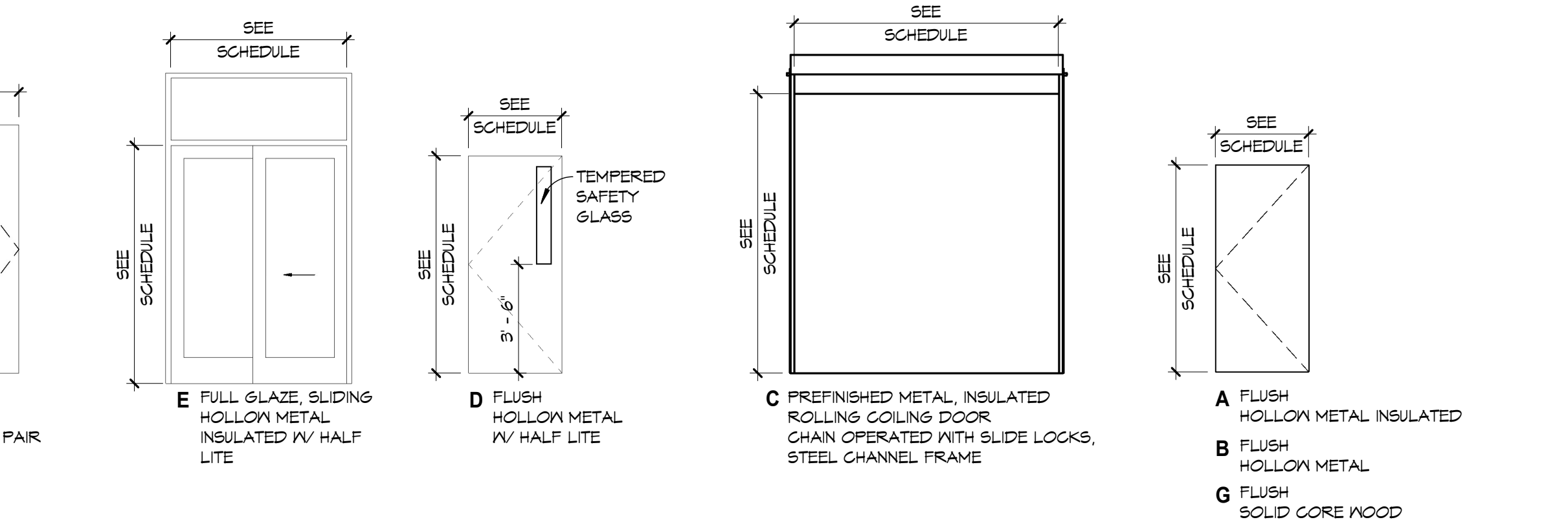
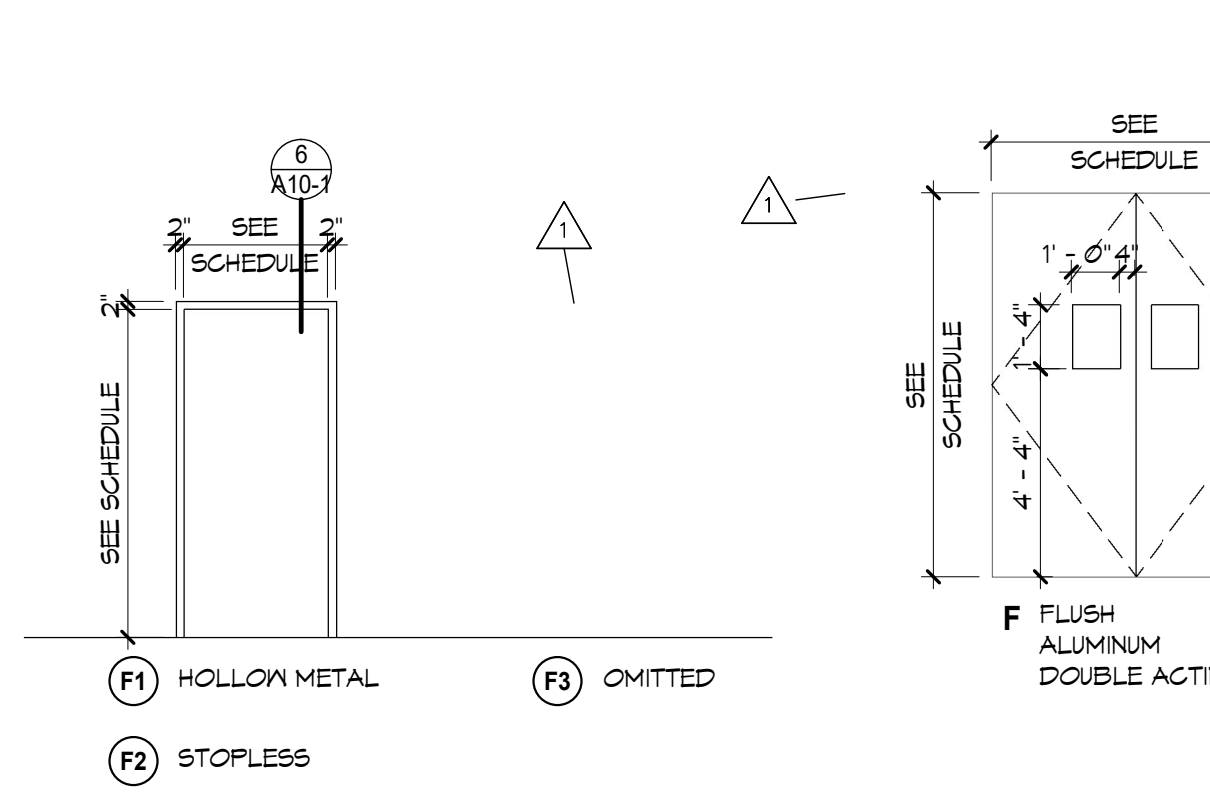
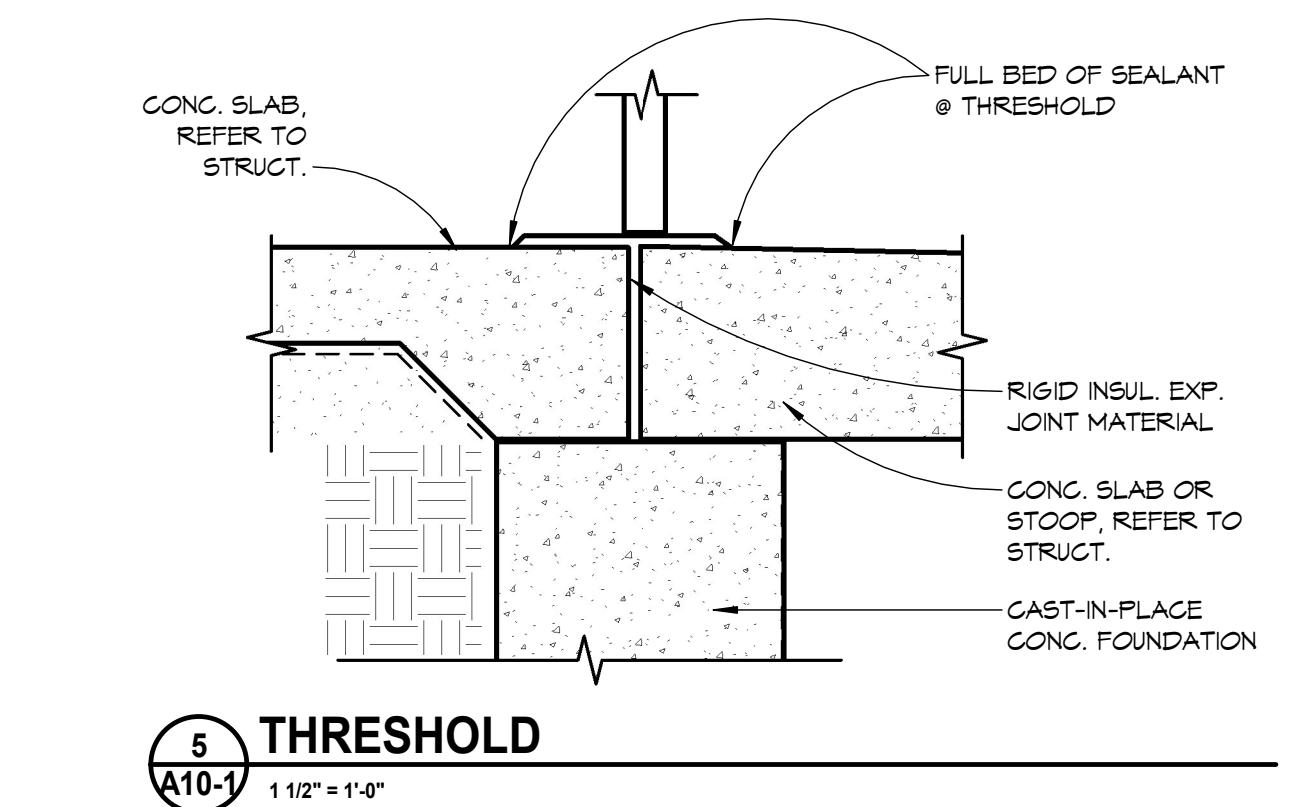
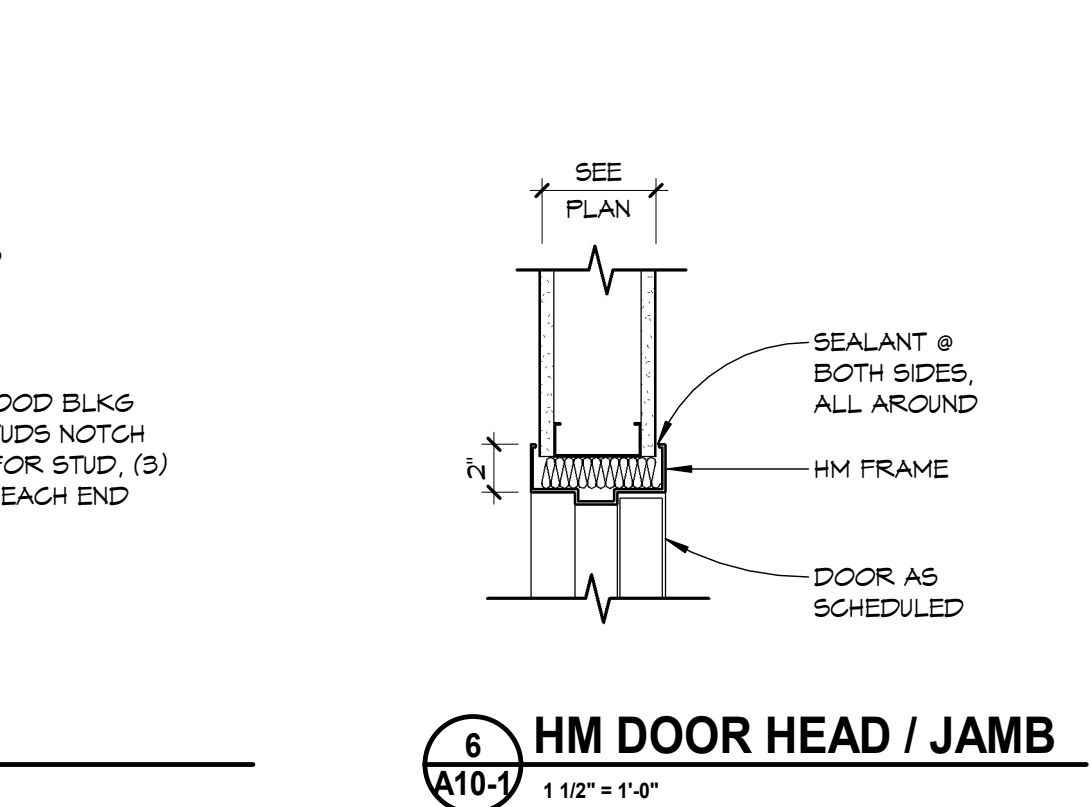
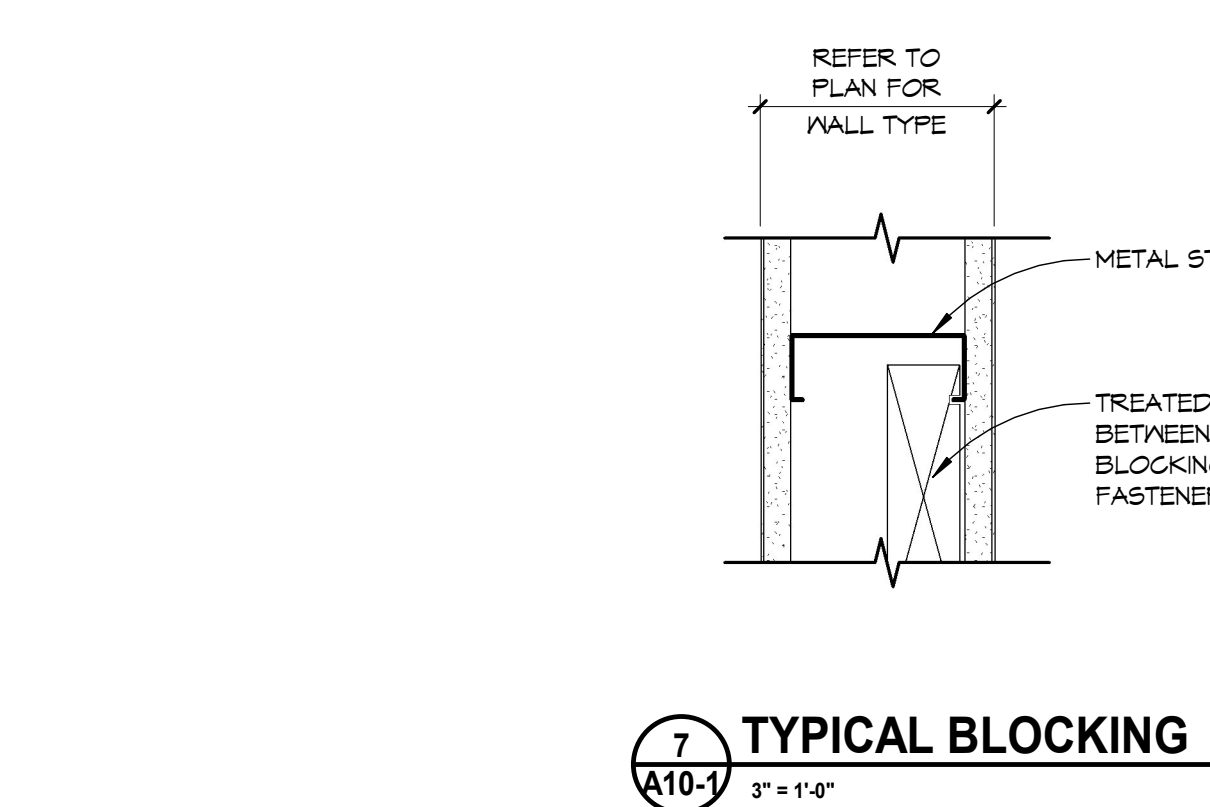
1 05/30/24 TENANT REVISIONS

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Sheet Information

SCHEDULES, DOOR & FRAME TYPES, WALL TYPES/ASSEMBLIES, DETAILS, ABBREVIATIONS
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A10-1



ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS	CEILING	REMARKS
LEVEL 1						
101	SALES FLOOR		POL. CONC.	VB	PT	OPEN - FT FLOOR MATS AT ENTRIES - SEE SPEC.
102	OPS OFFICE		LVT	VB	ACT	
103	CASH OFFICE		LVT	VB	PT	ACT
104	MOP ROOM		LVT	VB	PT	ACT FRP AT UTILITY SINK
105	WOMEN		LVT	VB	FRP / PT	ACT 4' FRP WAINSCOT
106	MEN		LVT	VB	FRP / PT	ACT 4' FRP WAINSCOT
107	BREAK ROOM		LVT	VB	PT	ACT
108	HALL		LVT	VB	PT	ACT
109	SECURE STORAGE		SEAL CONC.	-	ACT	
110	STOCK ROOM		SEAL CONC.	-	FLYND	OPEN
111	SERVICE AREA		SEAL CONC.	-	FLYND	OPEN
112	COMMON ELECT.		SEAL CONC.	-	GYP	OPEN
113	ELECTRICAL / DATA / TELCO		SEAL CONC.	-	GYP	OPEN

NOTE: SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION

ABBREVIATIONS

ACT	ACOUSTIC CEILING TILE
CPT	CARPET
FRP	FIBER REINFORCED PLASTIC
GYP	GYPSUM BOARD
LVT	LUXURY VINYL TILE
FLYND	PLYWOOD
PT	PAINT
POL. CONC.	POLISHED CONCRETE
SEAL CONC.	SEALED CONCRETE
VB	VINYL BASE

ROOM FINISH SCHEDULE

OFFERING NUMBER	ROOM NAME	EXIST/NEW	DOOR TYPE	DOOR SIZE W X H TH	DOOR / FRAME LABEL	FRAME TYPE	DETAILS	HARDWARE GROUP	NOTES
101A	SALES FLOOR	NEW	E	8'-0" T-8'	4 1/2"	GLR. ANOD. ALUM	NA	1	STANLEY DURA-SLIDE 3000, FULL BLACKOUT, FACTORY CONTACTS, 1" INSUL. GLASS
101B	SALES FLOOR	NEW	E	8'-0" T-8'	4 1/2"	GLR. ANOD. ALUM	NA	1	STANLEY DURA-SLIDE 3000, FULL BLACKOUT, FACTORY CONTACTS, 1" INSUL. GLASS
101C	SALES FLOOR	NEW	E	8'-0" T-8'	4 1/2"	GLR. ANOD. ALUM	NA	1	STANLEY DURA-SLIDE 3000, FULL BLACKOUT, FACTORY CONTACTS, 1" INSUL. GLASS
101D	SALES FLOOR	EXIST	EXIST	3'-0" T-0"	1 3/4"	EXIST	EXIST	-	REPAIR AS NEEDED & PAINT
101E				20'-0" B-8'	8'				
102	OPS OFFICE	NEW	G	3'-0" T-0"	1 3/4"	SC WD - STAIN	F1	2	MINIAX 'SLATE' w/ POLYCRYLIC SATIN
103	CASH OFFICE	NEW	G	3'-0" T-0"	1 3/4"	SC WD - STAIN	F1	2A	MINIAX 'SLATE' w/ POLYCRYLIC SATIN
104	MOP ROOM	NEW	G	3'-0" T-0"	1 3/4"	SC WD - STAIN	F1	2B	MINIAX 'SLATE' w/ POLYCRYLIC SATIN
105	WOMEN	NEW	G	3'-0" T-0"	1 3/4"	SC WD - STAIN	F1	3	MINIAX 'SLATE' w/ POLYCRYLIC SATIN
106	MEN	NEW	G	3'-0" T-0"	1 3/4"	SC WD - STAIN	F1	3	MINIAX 'SLATE' w/ POLYCRYLIC SATIN
107	BREAK ROOM	NEW	D	3'-0" T-0"	1 3/4"	SOLID CORE STAIN GRADE	F1	2	MINIAX 'SLATE' w/ POLYCRYLIC SATIN
108	HALL	NEW	A	3'-0" T-0"	1 3/4"	HM - INSULATED	F1/GROUT SOLID	4	PAINT EXT TO MATCH EX. WALL / REVERSE PEXTER S.G.
109	SECURE STORAGE	NEW	B	3'-0" T-0"	1 3/4"	HM	F1	5	PAINT 'REVERSE PEXTER' S.G.
110A	STOCK ROOM	NEW	A	3'-0" T-0"	1 3/4"	HM - INSULATED	SYSTEMS/SHARRED	5	PAINT EXT TO MATCH EX. WALL / REVERSE PEXTER S.G.
110B	STOCK ROOM	NEW	G	8'-8" T-0"	1 3/4"	INSULATED COLING		1	COLING OVERHEAD DOOR, FACTORY FINISH (CLOSEST TO EXT. WALL COLOR)
110C	STOCK ROOM	NEW	F	6'-0" B-0"	1/2"	ALUM DBL ACTION	F2	4	PAIR - DOUBLE ACTING, ELIASON LVP-3 w/ 4" JAMB GUARD 1 3/4" S6 BASE PLATES
113	ELECTRICAL / DATA / TELCO	NEW	G	3'-0" T-0"	1 3/4"	SC WD - STAIN	F1	5	MINIAX 'SLATE' w/ POLYCRYLIC SATIN

NOTE: SEE SPECIFICATIONS FOR HARDWARE AND OTHER INFORMATION.

DOOR SCHEDULE (A10-1)

GENERAL STRUCTURAL NOTES:

A. DESIGN DATA:

DESIGN CODE:	IBC 2018
CONCRETE 28 DAY STRENGTH:	FC = 4,000 PSI
STRUCTURAL STEEL (BEAMS & COLUMNS):	ASTM A992
MISCELLANEOUS ROLLED SECTIONS AND PLATES (ANGLES, CHANNELS, PLATES, ETC.):	ASTM A36
HIGH STRENGTH BOLTS:	ASTM A325
PLAIN BOLTS AND ANCHORS OR GR. 36 (WELDABLE, 51):	ASTM F1554 GR. 36
REINFORCING STEEL:	ASTM A615 FY = 60,000 PSI
WELDED REINFORCING:	ASTM A615 FY = 60,000 PSI
WELDED WIRE FABRIC:	ASTM A195
CONCRETE MASONRY UNITS (ASTM C90 NORMAL WEIGHT/ 1,500 PSI UNIT STRENGTH):	FM = 1,500 PSI
MORTAR TYPE M OR S GROUT 28 DAY STRENGTH:	FC = 2,000 PSI
ALLOWABLE SOIL BEARING CAPACITY:	1,500 PSF (ASSUMED)
DESIGN LOADS:	
GRAVITY LOADS:	
FLOORS:	DL = 25 PSF
ROOFS:	LL = 100 PSF
	DL = 25 PSF
	LL BASED ON GROUND SNOW LOAD OF 30 PSF
	(Cs = 1.0, Cf = 1.0, AND I = 1.0)**

**INCREASE LIVE LOAD FOR SNOW DRIFTING AS REQUIRED IN CONFORMANCE WITH THE AMERICAN SOCIETY OF CIVIL ENGINEERS ANSIS/AISC 7-16.

WIND LOADING CRITERIA (2018 IBC)
BASE WIND SPEED (3 SECOND GUST) V = 115 MPH
BUILDING CATEGORY II
IMPORTANCE FACTOR $I_w = 1.0$
EXPOSURE CATEGORY B

B. FOUNDATION WORK:

- SUBSOILS SUPPORTING OR IN DIRECT CONTACT WITH FOOTINGS, SLABS ON GRADE, OR OTHER FOUNDATION ELEMENTS SHALL BE PROTECTED AGAINST FREEZING CONDITIONS THAT COULD CAUSE MOVEMENT OR OTHER DETRIMENTAL EFFECT TO THE STRUCTURE AS A WHOLE OR TO ANY OF ITS COMPONENT PARTS.
- WHEN WORKING NEAR EXISTING AND/OR NEW CONSTRUCTION, THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION SO AS NOT TO UNDERMINE, DISTURB, DAMAGE OR, IN ANY WAY, CAUSE UNDESIRABLE MOVEMENT, CRACKING, AND/OR SETTLEMENT OF THE ADJACENT CONSTRUCTION.
- ALL SLABS ON GRADE SHALL BEAR ON UNDISTURBED VIRGIN SOIL OR PROPERLY COMPACTED BACKFILL/GRANULAR FILL. ANY UNACCEPTABLE UNDISTURBED VIRGIN SOIL OR BACKFILL/GRANULAR FILL, AS DETERMINED BY THE OWNER'S GEOTECHNICAL ENGINEER, SHALL BE REMOVED AND REPLACED AS REQUIRED BY THE GEOTECHNICAL ENGINEER.
- CONTRACTOR SHALL COORDINATE FOOTING ELEVATIONS WITH FINAL GRADING PLAN TO PROVIDE A MINIMUM OF 4" OF GRADE ABOVE THE BOTTOM OF ALL FOOTINGS FOR FROST PROTECTION.
- CONCRETE:
 - CONCRETE SHALL BE REGULAR WEIGHT (144 PCF) WITH TYPE I CEMENT, POTABLE WATER, AND AGGREGATES CONFORMING TO REQUIREMENTS OF NEBRASKA DEPARTMENT OF ROADS FOR 47-B CONCRETE, UNLESS NOTED OTHERWISE. CONCRETE SHALL CONFORM TO ACI 301-10.
 - MECHANICALLY VIBRATE CONCRETE, EXCEPT THAT SLABS ON GRADE NEED BE VIBRATED ONLY AROUND UNDERFLOOR DUCTS AND OTHER ITEMS EMBEDDED IN THE SLAB.
 - DO NOT PLACE PIPES, DUCTS, OR CHASES IN STRUCTURAL CONCRETE WITHOUT APPROVAL OF THE ARCHITECT/ENGINEER. SEE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR LOCATIONS.
 - CONSTRUCT FORMWORK SO CONCRETE MEMBERS AND STRUCTURES ARE OF SIZE, SHAPE, ALIGNMENT, ELEVATION, AND POSITION INDICATED, WITHIN TOLERANCE LIMITS OF ACI 117.
 - ALL REINFORCING STEEL SHALL BE DEFORMED NEW BILLETS BARS (A615, GRADE 60), BENT COLD, AND DETAILED, FABRICATED, AND HELD IN PLACE IN ACCORDANCE WITH THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI 315 LATEST EDITION) EXCEPT AS OTHERWISE DETAILED OR SPECIFIED.
 - UNLESS NOTED OTHERWISE, SLABS ON GRADE SHALL BE 4" CONCRETE REINFORCED WITH 6 X 6 W1.4 X W1.4 WELDED WIRE FABRIC ON 4" GRANULAR FILL WITH VAPOR BARRIER.

D. MASONRY:

- FURNISH AND CONSTRUCT MASONRY IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFICATIONS FOR MASONRY CONSTRUCTION (ACI 530.1-02/ASCE 6-02/TMS 602-02).
 - LAY MASONRY UNITS IN RUNNING BOND.
 - MAXIMUM GROUT LIFT WITHOUT CLEANOUTS SHALL BE 40" IN BLOCK WALLS AND 8" GROUTED TWO WYTHE WALLS.
 - 8" WALLS PROVIDE CONTINUOUS FULL HEIGHT VERTICAL REINFORCING IN CENTER OF GROUT AT CENTER OF WALL. TYPICAL REINFORCING SHALL BE 1 #5 AT 40" ON CENTER AND 1 #6 AT CORNERS, INTERSECTIONS, WALL ENDS, DOOR AND WINDOW JAMBS, AND SIDE OF EXPANSION OR CONTROL JOINTS UNLESS NOTED OTHERWISE.
 - PROVIDE LADDER TYPE #9 JOINT REINFORCING AT 16" ON CENTER VERTICAL SPACING IN ALL CONCRETE MASONRY AND UNLESS NOTED OTHERWISE.
 - SPLICE MASONRY WALL REINFORCING 48 BAR DIAMETERS.
 - SPLICE PLACE BOND BEAM REINFORCING AT MASONRY CONTROL/EXPANSION JOINTS AS SHOWN ON MASONRY JOINT DETAIL ON THIS SHEET.
 - PROVIDE CONTINUOUS BOND BEAMS AT ALL BEAM BEARING ELEVATIONS AND AT THE TOP OF ALL WALLS.
 - PROVIDE CONTINUOUS WIRE LATH GROUT BARRIERS BELOW BOND BEAMS.
- PROVIDE LINTELS OVER ALL OPENINGS AND RECESSES IN MASONRY WALLS. EXTERIOR LINTELS SHALL BE GALVANIZED, UNLESS NOTED OTHERWISE.
- FOR ALL OPENINGS NOT OTHERWISE DETAILED OR SCHEDULED, MINIMUM LINTELS SHALL BE FOR EACH 4 INCH OF MASONRY WIDTH 1 L 1/2 X 3 1/2 X 1/4 FOR SPANS UP TO 4'-0", 1 L 4 X 3 1/2 X 1/4 FOR SPANS UP TO 6'-0" AND 1 L 5 X 3 1/2 X 5/16 FOR SPANS UP TO 8'-0". FOR SPANS LESS THAN 2'-0" PROVIDE A 5/16" PLATE.
 - ALL LINTELS SHALL HAVE A MINIMUM BEARING OF 8 INCHES EACH END.

E. STEEL:

- STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST AISC SPECIFICATIONS AND OSHA REGULATION 29 CFR PART 1926.
- ALL STEEL BEAMS BEARING ON MASONRY SHALL HAVE A MINIMUM OF 8" OF BEARING. PROVIDE THE BEAMS WITH BEARING PLATES AND WALL ANCHORS UNLESS NOTED OTHERWISE. PROVIDE A MINIMUM OF 4 COURSES OF BRICK OR SOLID CONCRETE MASONRY FOR BEAM BEARING.
- SHOP PAINT STRUCTURAL STEEL WITH FABRICATOR'S STANDARD LEAD- AND CHROMATE-FREE, NONASPHALTIC, RUST-INHIBITING PRIMER, UNLESS NOTED OTHERWISE. ALL EXTERIOR EXPOSED STEEL SHALL BE GALVANIZED. UPON APPROVAL OF ARCHITECT, PAINTING MAY NOT BE REQUIRED FOR SURFACES ENCLOSED IN INTERIOR CONSTRUCTION.
- COMPLY WITH AMERICAN WELDING SOCIETY STANDARDS. ALL WELDERS SHALL HAVE VALID CERTIFICATES AND HAVE CURRENT EXPERIENCE IN TYPE OF WELD CALLED FOR.
- WELDING ELECTRODES SHALL BE E70 FOR ALL STEEL, UNLESS NOTED OTHERWISE.

F. STEEL DECK:

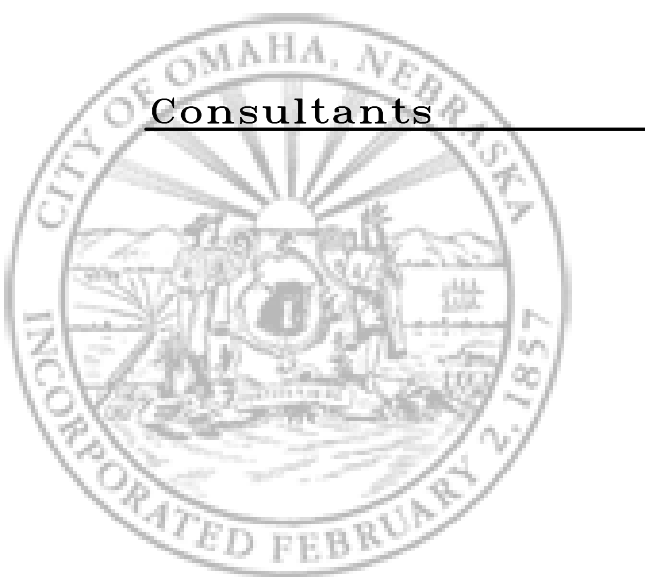
- MATERIAL, DESIGN, MANUFACTURE, AND INSTALLATION OF METAL DECKING SHALL BE FURNISHED BY A MEMBER OF THE STEEL DECK INSTITUTE.
- PROVIDE L 3X3X1/4 ANGLE FRAMING AROUND ALL ROOF PENETRATIONS AND AS REQUIRED FOR SUPPORT OF ROOF CURBS TO STIFFEN METAL DECK EDGES.
- NEW ROOF DECK SHALL MATCH EXISTING PROFILE AND GAUGE. WELD STEEL DECK TO STRUCTURAL MEMBERS WITH MINIMUM 5/8" DIAMETER PUDDLE WELDS AT 6" ON CENTER AT DECK ENDS AND LAPS, 12" ON CENTER AT INTERMEDIATE LOCATIONS. FASTEN STEEL DECK SIDELAPS WITH #10 TEK SCREWS AT 8" ON CENTER.
- LIGHT GAUGE METAL:
 - LIGHT GAUGE METAL FRAMING SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH THE LATEST EDITION OF "THE NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" AND "THE COLD FORMED STEEL FRAMING DESIGN GUIDE" OF THE AMERICAN IRON AND STEEL INSTITUTE.
 - PROVIDE TRACKS, BLOCKING, LINTELS, CLIP ANGLES, STRAP BRACING, SHOES, REINFORCEMENTS, FASTENERS, AND ACCESSORIES TO PROVIDE A COMPLETE METAL FRAME SYSTEM.
 - ISOLATE PARTITIONS FROM STRUCTURAL ELEMENTS WITH SLIP OR CUSHION TYPE JOINTS BETWEEN STEEL FRAMING AND STRUCTURE AS RECOMMENDED BY STEEL FRAMING MANUFACTURER TO PREVENT TRANSFER OF STRUCTURAL LOADS OR MOVEMENTS TO PARTITIONS.
 - INSTALL HORIZONTAL BRIDGING IN WALL SYSTEM AS REQUIRED BY METAL STUD SUPPLIER. MINIMUM BRIDGING SPACING SHALL BE 4'-0" O.C. (VERTICAL DISTANCE.) UNTIL PERMANENT INTERIOR WALL SHEATHING IS INSTALLED.
 - FASTEN PLYWOOD WITH 1/4 INCH TEK SCREWS AT 6 INCH AT ALL SUPPORTS AND EDGES.
 - BEARING STUDS MUST BE FABRICATED WITH FULL STUD END SEATED AGAINST TRACK WEB. DO NOT USE STUD THAT HAS BEEN CUT.
 - PROVIDE DOUBLE METAL STUD AROUND ALL OPENINGS IN STUD WALL SYSTEM AT JAMBS, HEADS, AND SILLS. WELD AT ALL INTERSECTIONS.

H. INSPECTIONS:

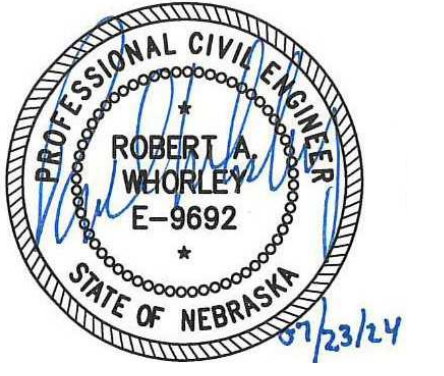
- IN ACCORDANCE WITH 2018 IBC SECTION 1705, AS NOTED BELOW, TESTING AND INSPECTION SHALL BE BY AN INDEPENDENT TESTING/INSPECTION FIRM UNDER THE SUPERVISION OF A LICENSED ENGINEER EMPLOYED BY THAT FIRM. THIS ENGINEER SHALL BE DEEMED THE DESIGNATED ENGINEER OF RECORD FOR SPECIAL INSPECTIONS PERFORMED BY HIS FIRM OR HIS CONSULTANTS. INSPECTORS SHALL BE ICBO CERTIFIED AND APPROVED BY THE BUILDING OFFICIAL.
- THE DESIGNATED ENGINEER OF RECORD FOR SPECIAL INSPECTIONS SHALL BE RESPONSIBLE FOR DEFINING THE ACTIVITIES OF THE INSPECTORS, FOR CERTIFYING THE QUALIFICATIONS OF THE INSPECTORS WITH THE BUILDING OFFICIAL, AND TO ATTEND THE PRE-CONSTRUCTION MEETING TO DEFINE THEIR SCOPE OF SERVICES AND THE TESTING OR TEST PROCEDURES THAT ARE REQUIRED AS OUTLINED IN THE INTERNATIONAL BUILDING CODE.
- SPECIAL INSPECTION IS TO BE PROVIDED IN ADDITION THE INSPECTIONS CONDUCTED BY THE LOCAL DEPARTMENT OF BUILDING SAFETY AND SHALL NOT BE CONSTRUED TO RELIEVE THE OWNER OR HIS AUTHORIZED AGENT FROM REQUESTING THE PERIODIC AND CALLED INSPECTIONS REQUIRED BY SECTION 104.4 OF THE INTERNATIONAL BUILDING CODE.
- SPECIAL INSPECTIONS REQUIRED INCLUDE, BUT MAY NOT BE LIMITED TO, THE FOLLOWING:
 - CONCRETE PER SECTION 1705.3 AND TABLE 1705.3 AND ALL APPLICABLE EXCEPTIONS.
 - WELDING PER SECTION 1705.3.
 - STRUCTURAL MASONRY PER SECTION 1705.4.
- OTHER:
 - UNLESS NOTED OTHERWISE, EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT 3 EXPANSION ANCHORS OR APPROVED EQUAL ADHESIVE (EPOXY) ANCHORS SHALL CONSIST OF HILTI STANDARD HAS-E RODS WITH THE HIT-HY 200 ADHESIVE SYSTEM OR APPROVED EQUAL. INSTALL ANCHOR PER MANUFACTURER'S REQUIREMENTS.
 - VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO STARTING WORK. NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR INCONSISTENCIES.
 - VERIFY IN FIELD ALL EXISTING CONDITIONS SHOWN ON DRAWINGS.
 - ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR MECHANICAL, ELECTRICAL, AND PLUMBING WITH APPROPRIATE TRADES. PROVIDE ALL TEMPORARY BRACING, SHORING, GUYING, OR OTHER MEANS TO AVOID EXCESSIVE STRESSES AND TO HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION.
 - INSTALLING CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SHORING OF EXISTING STRUCTURE AT NEW WALL OPENINGS.
 - ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE STAMP (AND SIGNATURE) OF AN ENGINEER REGISTERED IN NEBRASKA.



Alan J. Plutowski
ARCHITECT
4125 Lakeland Ave N., Suite 200
Minneapolis, Minnesota 55422
Phone: 763-533-7171



Certification



Project Information

WESTGATE PLAZA
ACE HARDWARE

3101 S. 84TH STREET
OMAHA, NE 68124

Revisions

Date: 03/12/2024
Drawn By: Author
Checked By: Checker
Job Number: 00324

Sheet Information

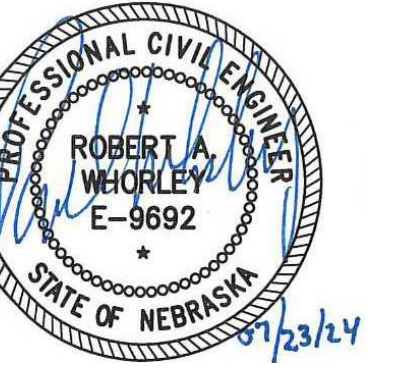
GENERAL STRUCTURAL
NOTES

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S1-0



Certification



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ACE HARDWARE

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 OMAHA, NE 68124

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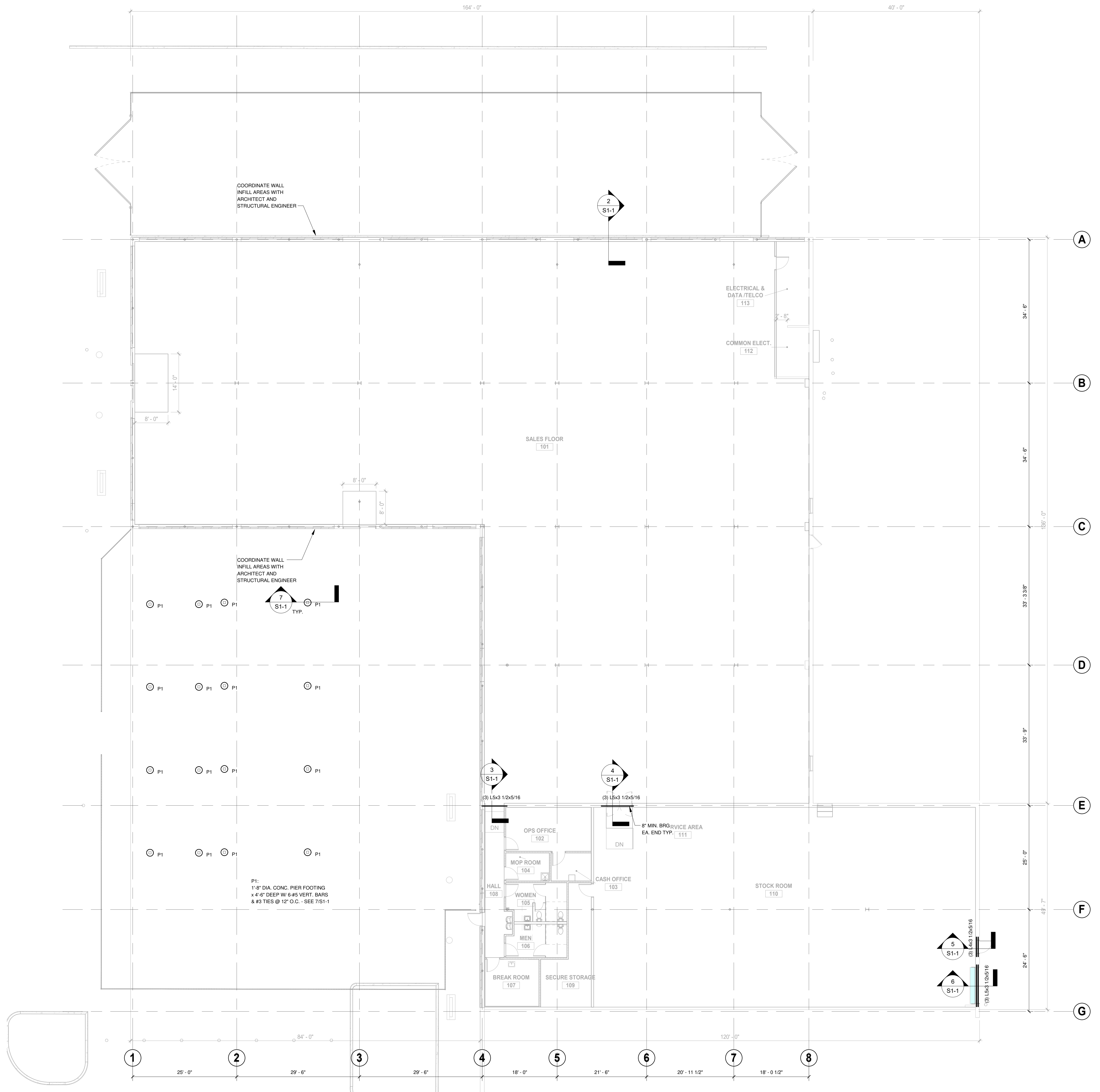


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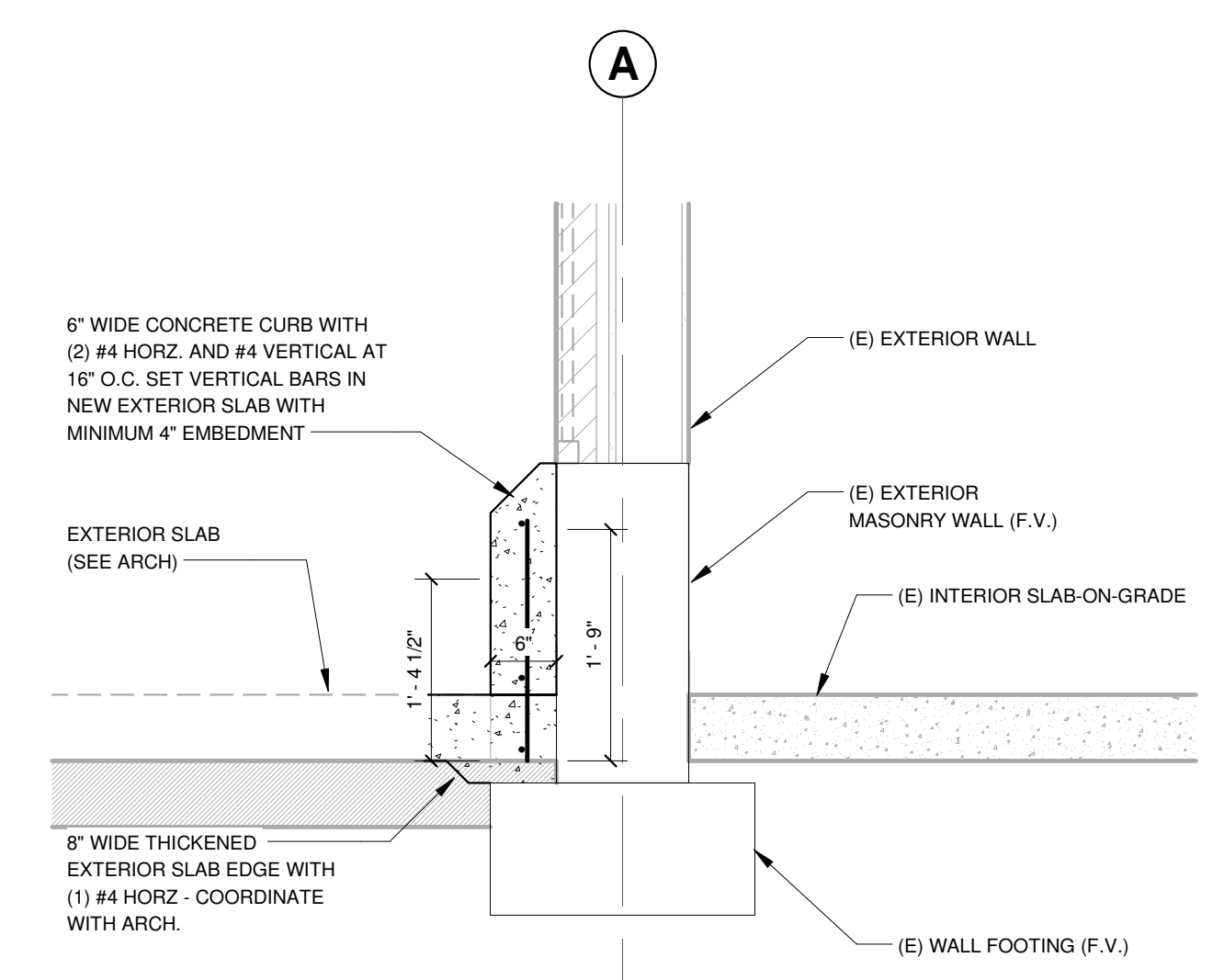
STRUCTURAL FLOOR PLAN
 AND NOTES

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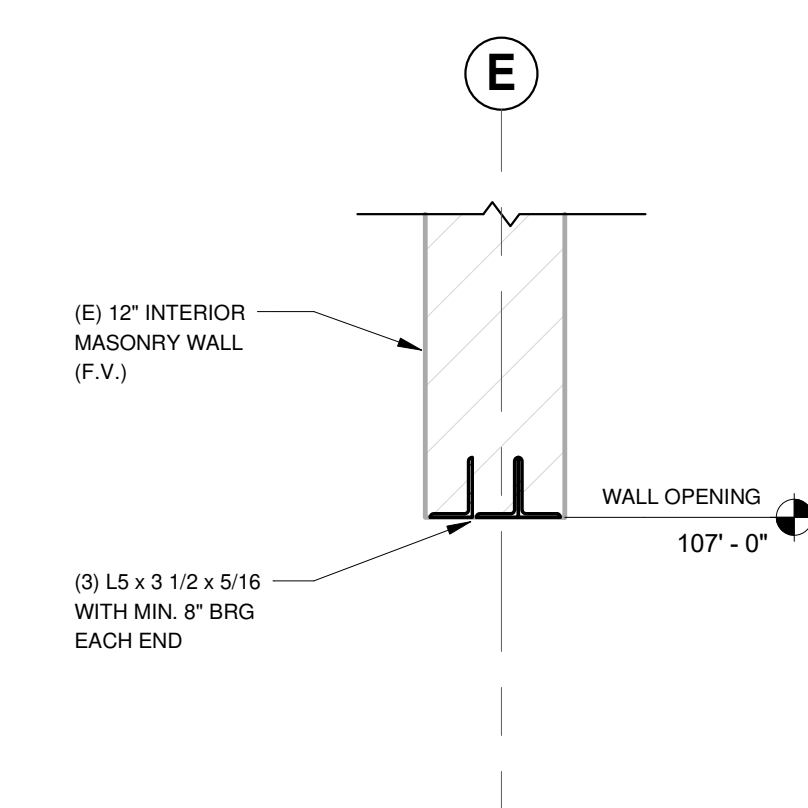
S1-1



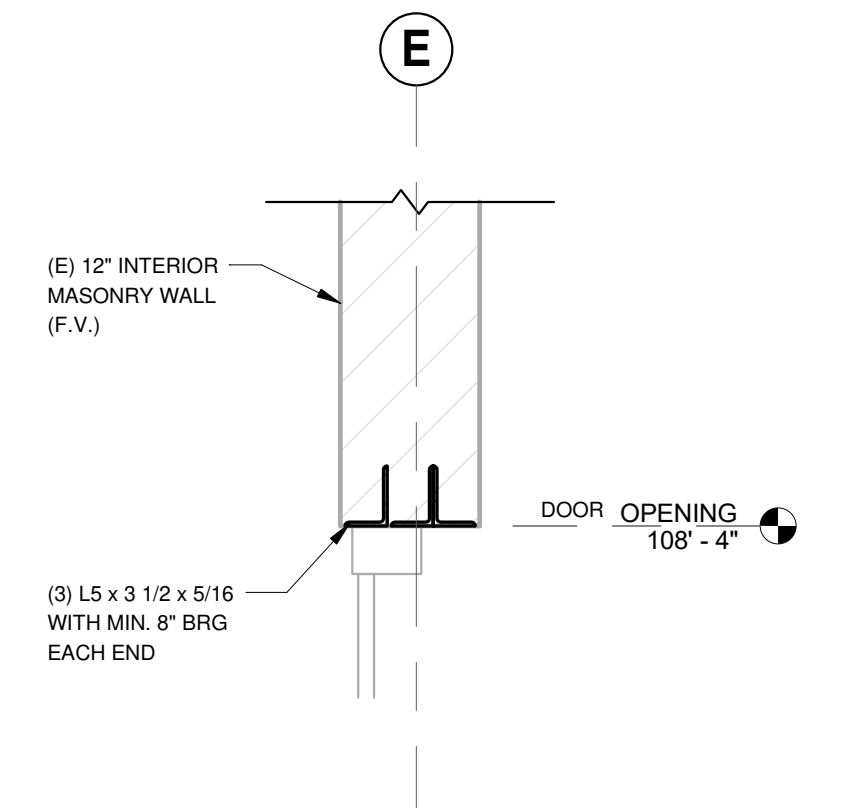
1 STRUCTURAL FLOOR PLAN
 S1-1 3/32" = 1'-0"



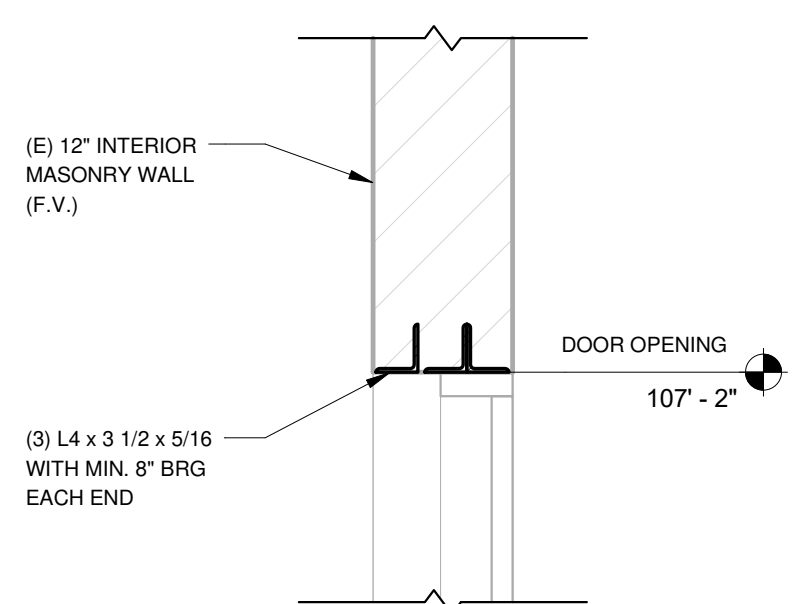
2 SECTION AT FLOOR SLAB
 S1-1 3/4" = 1'-0"



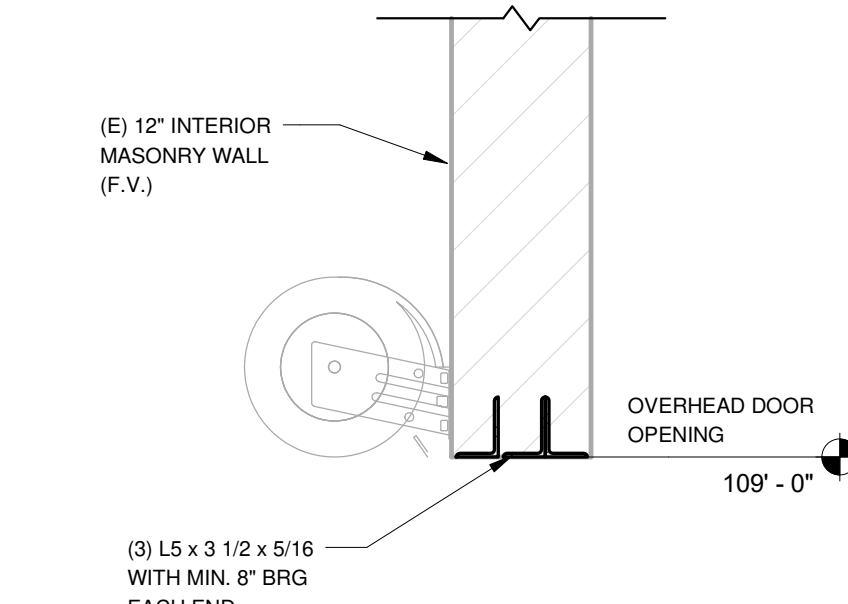
3 LINTEL SECTION
 S1-1 3/4" = 1'-0"



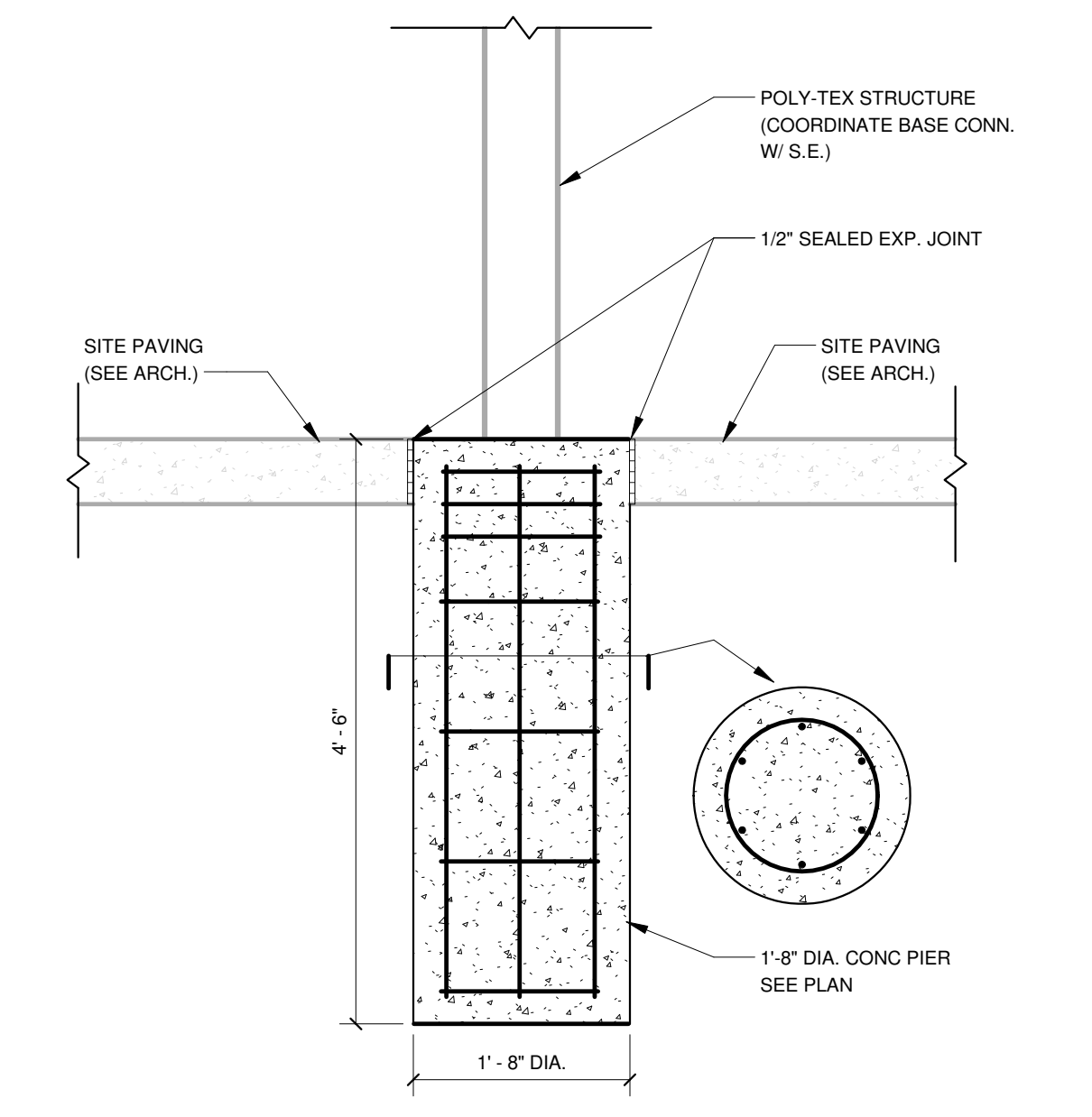
4 LINTEL SECTION
 S1-1 3/4" = 1'-0"



5 LINTEL SECTION
 S1-1 3/4" = 1'-0"

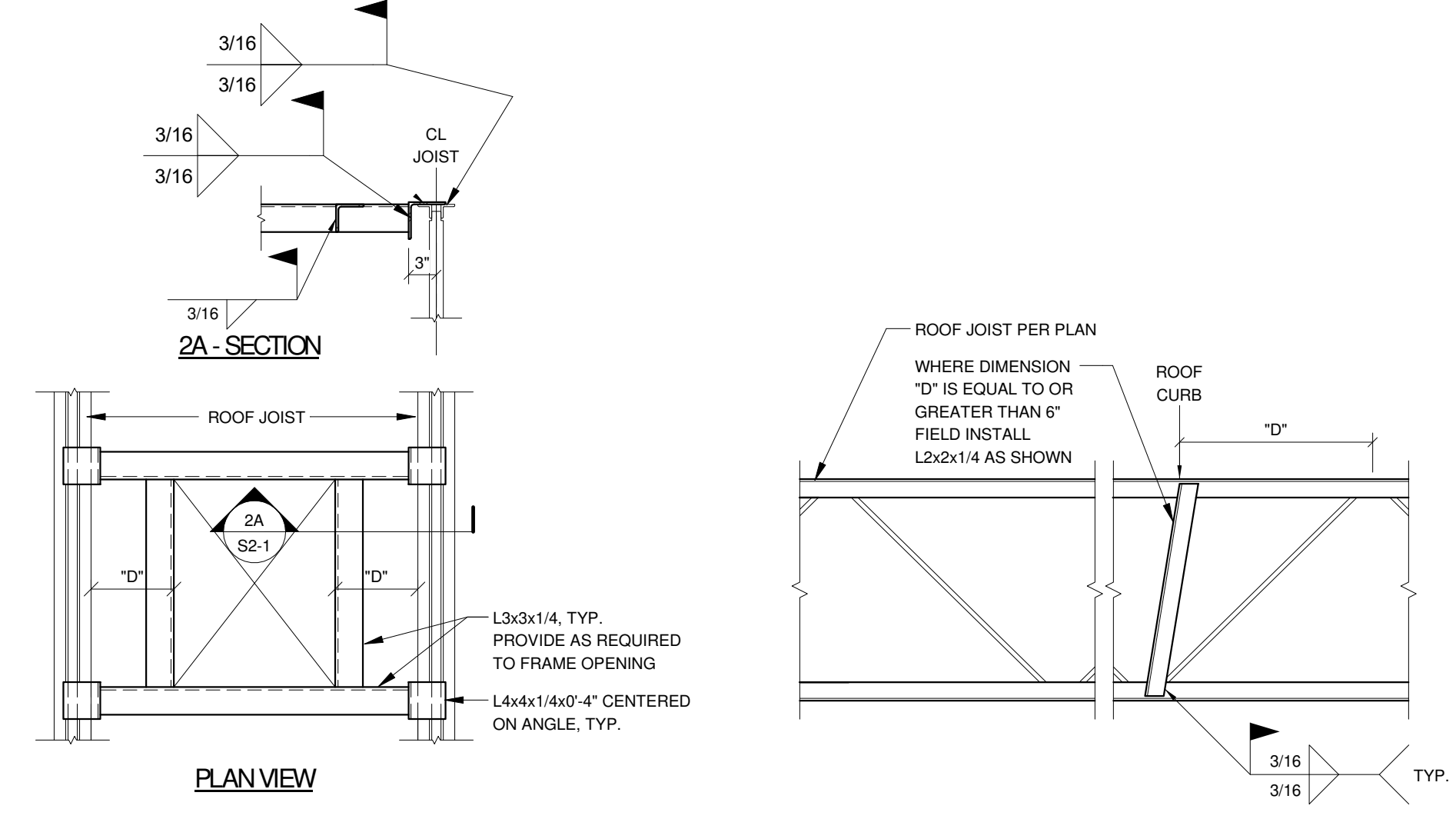


6 LINTEL SECTION
 S1-1 3/4" = 1'-0"



7 PIER FOOTING SECTION
 S1-1 3/4" = 1'-0"

S1-1

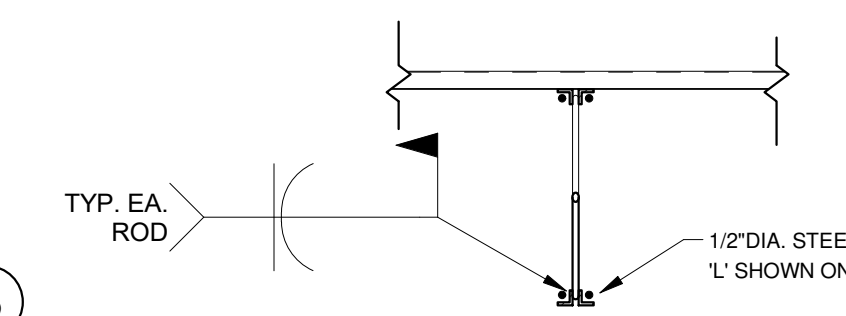


NOTES:
 1. TYPICAL ROOF OPENING DETAIL SHOWN APPLIES TO ALL ROOF OPENINGS WHERE LEAST DIMENSION IS 12" OR LARGER. REINFORCE ROOF OPENINGS LESS THAN 12" BY WELDING 16 GA. SHEET METAL 1'-0" WIDER THAN OPENING TO METAL ROOF DECK. WHERE DIMENSION 'D' IS LESS THAN 6" ANGLE MAY BE OMITTED.

NOTE:
 PROVIDE JOIST REINFORCEMENT PER DETAIL BASED ON ROOF CURB LOCATION.

2 ROOF OPENING SUPPORT DETAIL
 S2-1 3/4" = 1'-0"

3 JOIST LOAD STRUT DETAIL
 S2-1 3/4" = 1'-0"



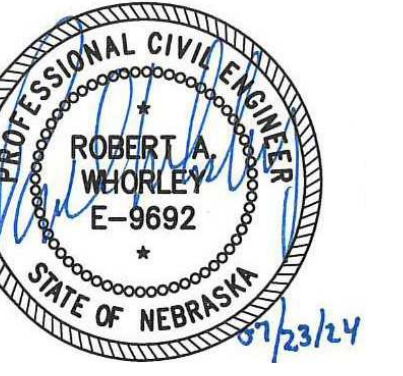
4 JOIST REINFORCEMENT DETAIL
 S2-1 3/4" = 1'-0"

NOTES:
 1. CONTRACTOR SHALL COORDINATE PLAN LOCATION OF NEW ROOFTOP MECHANICAL UNITS WITH ARCHITECT, MECHANICAL SUB-CONTRACTOR, AND STRUCTURAL ENGINEER. DUCT OPENINGS IN EXISTING METAL ROOF DECK SHALL BE REINFORCED PER S2-1. DUCTS SHALL BE ORIENTED TO AVOID CUTTING OR REMOVAL OF EXISTING ROOF JOIST FRAMING.
 2. CONTRACTOR SHALL SUBMIT ROOFTOP EQUIPMENT SUBMITTAL TO STRUCTURAL ENGINEER FOR REVIEW OF EXISTING ROOF FRAMING PRIOR TO PLACEMENT.
 3. EXISTING ROOF JOIST FRAMING SHALL BE REINFORCED PER S2-1.



1 STRUCTURAL ROOF PLAN
 S2-1 3/32" = 1'-0"

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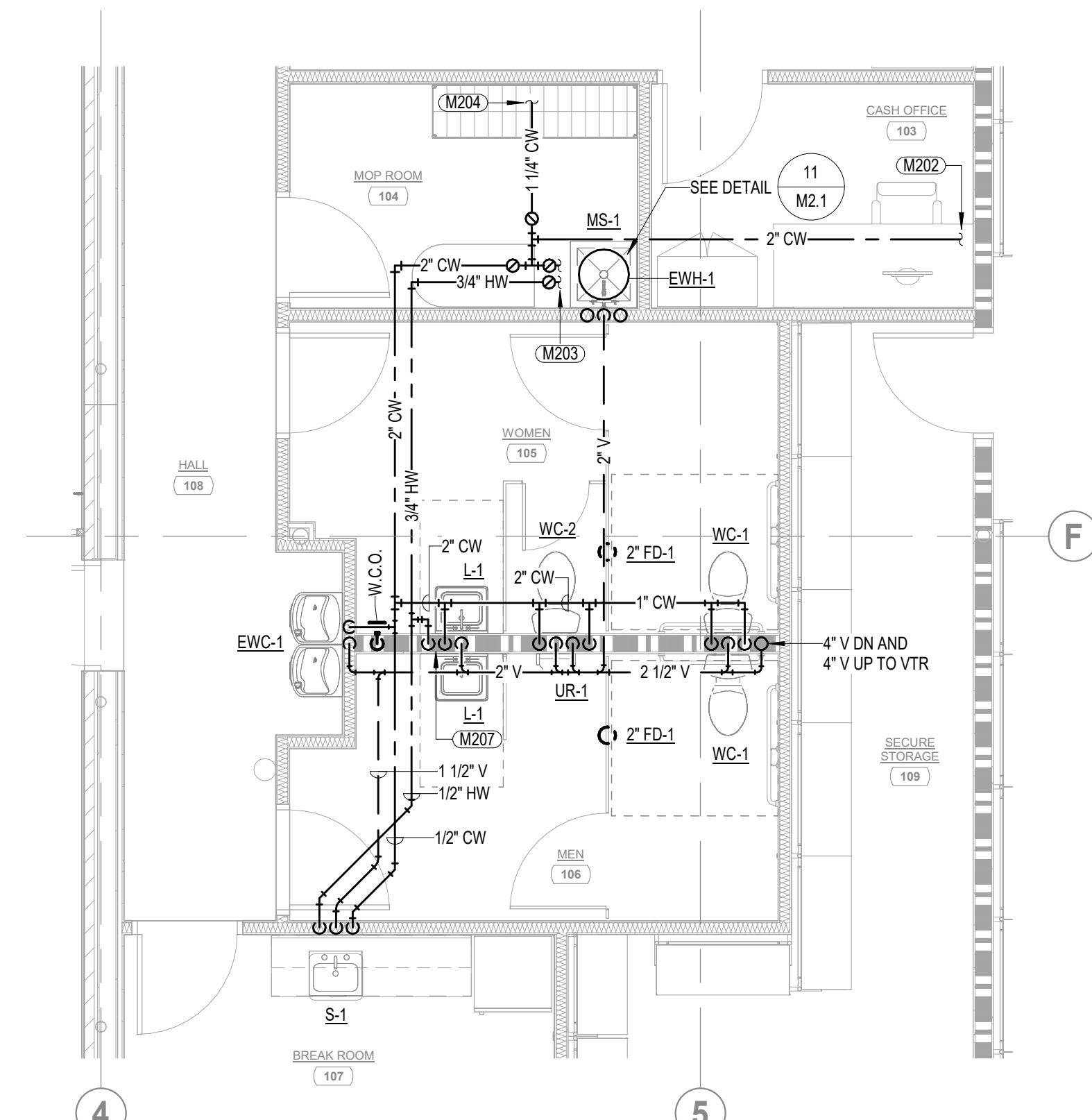


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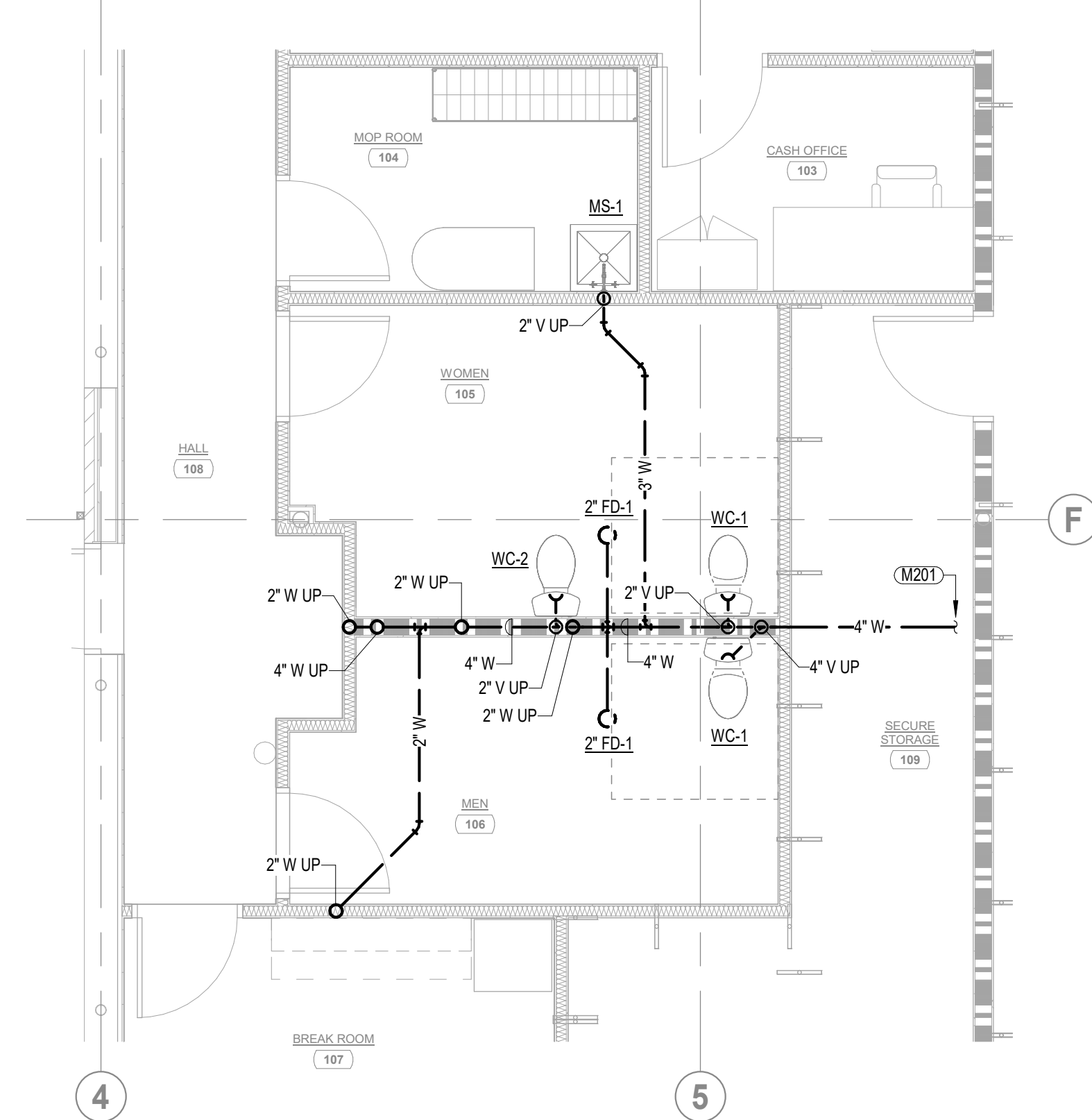
STRUCTURAL ROOF PLAN
 AND SECTIONS

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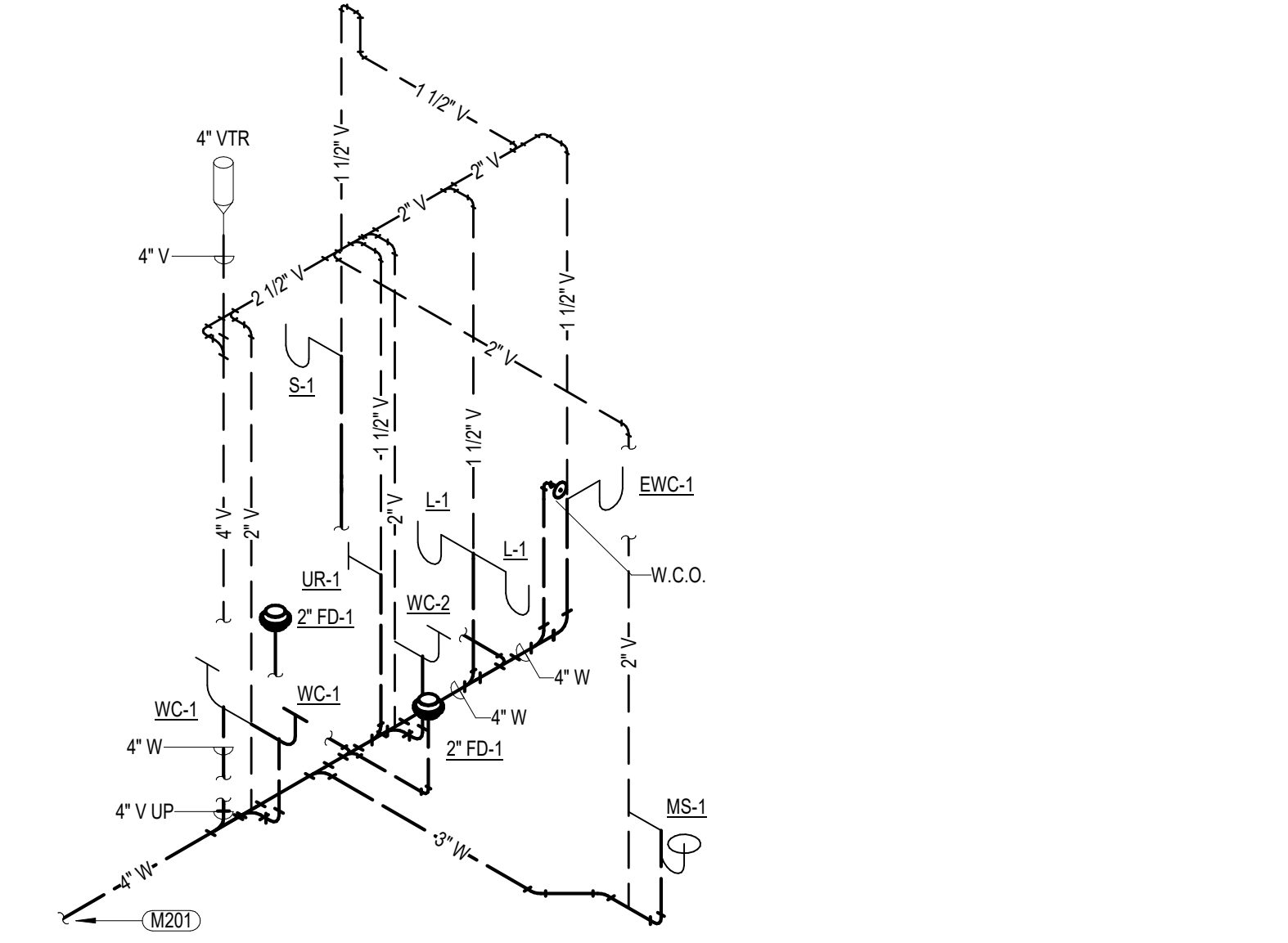
S2-1



1 ENLARGED FLOOR PLAN - PLUMBING
M2.1
1/4" = 1'-0"



2 ENLARGED UNDERGROUND PLAN - PLUMBING
M2.1
1/4" = 1'-0"



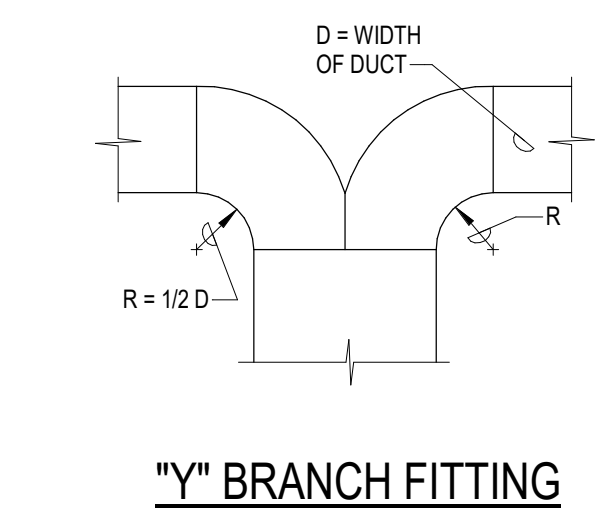
3 WASTE & VENT RISER DIAGRAM
M2.1
NOT TO SCALE

GENERAL PLUMBING NOTES

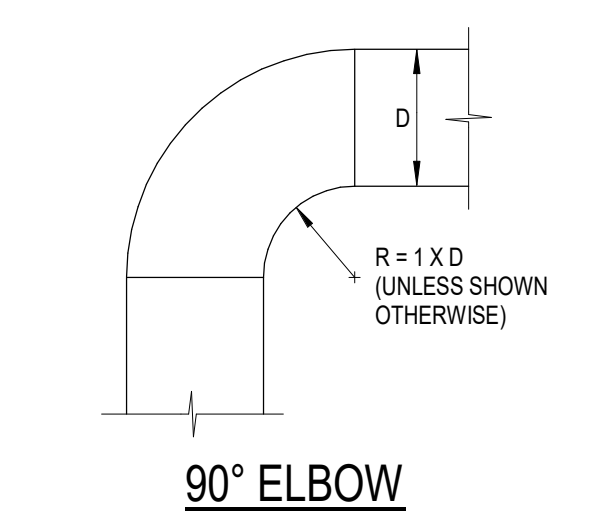
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO NEW WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING PIPING AS NECESSARY TO AVOID CONFLICTS WITH EXISTING STRUCTURE AND WITH ALL TRADES OF NEW WORK.
- DO NOT ROUTE PIPING ABOVE ELECTRICAL PANELS. MAINTAIN ALL CODE REQUIRED CLEARANCES.
- MAINTAIN MINIMUM 10'-0" CLEARANCE TO WASTE VENTS FROM ALL FRESH AIR INTAKES.
- MAINTAIN MANUFACTURER'S REQUIRED CLEARANCE AROUND ALL MECHANICAL EQUIPMENT TO ALLOW PROPER OPERATION AND FOR EASY MAINTENANCE AND FILTER ACCESS.
- COORDINATE EXACT LOCATION OF ALL FLOOR, WALL, AND ROOF PENETRATIONS AND WORK TO BE PERFORMED ABOVE THE FLOORS AND ROOF WITH GENERAL CONTRACTOR. SEAL ALL PENETRATIONS OF EXTERIOR ENVELOPE WEATHER TIGHT.
- UNLESS OTHERWISE NOTED, ROUTE PIPING AS HIGH AS POSSIBLE. UTILIZE JOIST SPACE TO AVOID CONFLICTS. COORDINATE EXACT ROUTING WITH STRUCTURE, LIGHTS, DUCTWORK, AND ALL OTHER TRADES. PROVIDE NECESSARY OFFSETS, TRANSITIONS, AND EXTENSIONS AS REQUIRED TO COMPLETE INSTALLATION AT NO ADDITIONAL COST TO OWNER.
- PLANS ARE SCHEMATIC IN NATURE. PIPE ROUTING IS SHOWN FOR CLARITY AND FOR GENERAL ROUTING INFORMATION. COORDINATE EXACT ROUTING WITH ALL OTHER TRADES. PROVIDE ALL ADDITIONAL OFFSETS AS REQUIRED TO COMPLETE INSTALLATION.
- INSTALL ALL VALVES ABOVE ACCESSIBLE CEILING OR IN ACCESSIBLE LOCATIONS. PROVIDE ACCESS PANELS WHERE REQUIRED.
- DO NOT ROUTE WATER PIPING IN EXTERIOR WALLS UNLESS OTHERWISE NOTED. PIPING ROUTED IN EXTERIOR WALLS SHALL BE LOCATED ON THE INTERIOR SIDE OF INSULATION.
- FIRE CAULK ALL PIPE PENETRATIONS THROUGH FIRE RATED WALLS AND ASSEMBLIES. CAULK AROUND ALL PIPE PENETRATIONS THROUGH FULL HEIGHT SOUND WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL CONSTRUCTION.
- SPACE ABOVE ALL CEILING SHALL BE MAINTAINED AS A RETURN AIR PLENUM PER APPLICABLE BUILDING CODES AND ALL COMBUSTIBLE MATERIALS ARE NOT PERMITTED WITHIN RETURN AIR PLENUM. ONLY PLENUM RATED MATERIALS CAN BE EXPOSED TO RETURN AIR PLENUM.
- ALL PLUMBING SHALL BE IN ACCORDANCE WITH THE LOCAL PLUMBING CODE. NOT ALL CLEANOUTS SHOWN. PROVIDE CLEANOUTS (SEE DETAIL 9) ON THIS SHEET AS REQUIRED PER AUTHORITY HAVING JURISDICTION. COORDINATE CLEANOUT LOCATIONS WITH GENERAL CONTRACTOR.
- SEE WASTE AND VENT RISER DIAGRAMS ON THIS SHEET FOR COMPLETE PLUMBING SIZES AND CONFIGURATION.
- SEE PLUMBING FIXTURE SCHEDULE SHEET M3.1 FOR PLUMBING FIXTURE CONNECTION REQUIREMENTS.

KEYNOTES

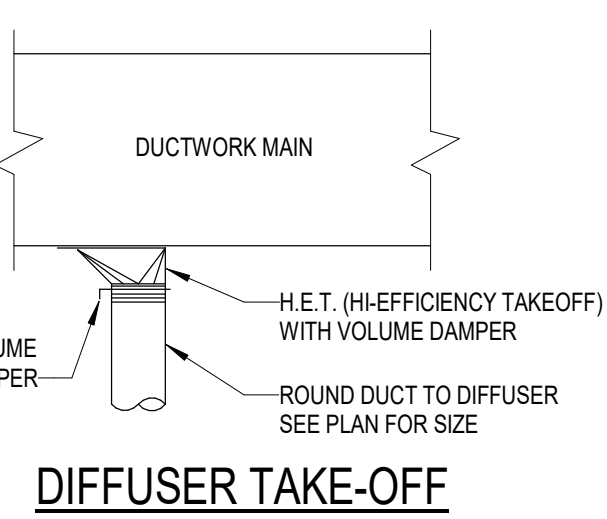
- M201 CONNECT NEW 4" SANITARY WASTE LINE TO EXISTING BELOW GRADE SANITARY MAIN. EXISTING UNDERGROUND SANITARY CONFIGURATION IS NOT KNOWN. CONTRACTOR SHALL FIELD VERIFY EXACT SIZE, LOCATION, DEPTH AND FLOW DIRECTION OF THE EXISTING UNDERGROUND LINE. OFFSET/EXTEND NEW SANITARY AS REQUIRED TO MAKE CONNECTION IF ACTUAL LOCATION VARIES FROM WHAT IS INDICATED ON PLAN. INSPECT EXISTING PIPING AND REPORT ANY DEFICIENCIES TO GENERAL CONTRACTOR.
- M202 CONNECT 2" CW TO EXISTING WATER SERVICE METER ASSEMBLY LOCATED IN STOCK ROOM. PRIOR TO NEW WORK CONTRACTOR SHALL COORDINATE WITH MUD NEW WATER DEMAND AND EXISTING METER CAPACITY RATING. PROVIDE NEW METER UPGRADES AS RECOMMENDED BY MUD. VERIFY EXACT LOCATION AND CONFIGURATION OF EXISTING WATER SERVICE. EXTEND, OFFSET AND TRANSITION PIPING AS REQUIRED TO MAKE CONNECTION. INSPECT EXISTING PIPING AND REPORT ANY DEFICIENCIES TO GENERAL CONTRACTOR.
- M203 1" HW AND 1" CW TO SERVE ELECTRIC WATER HEATER EWH-1. PROVIDE ACCESSORIES, SPECIALTIES, FITTINGS, ETC. AS SHOWN IN ELECTRIC WATER HEATER DETAIL, PREFERENCE SHOWN ON PLAN. TAP OFF 3/4" CW/HW LINES WITH ISOLATION VALVES TO SERVE MOP SINK LOCATED BELOW WATER HEATER.
- M204 ROUTE 1-1/4" CW LINE TO SERVE ROOF HYDRANT AND WALL HYDRANTS. COORDINATE HYDRANT QUANTITIES AND LOCATIONS WITH OWNER AND CONTRACTOR. COORDINATE CONTINUATION OF PIPING WITH ALL TRADES. EXTEND, OFFSET, AND TRANSITION PIPING AS REQUIRED TO SERVE ALL HYDRANTS AND AVOID CONFLICTS.
- M207 12" CW/HW ON TO SERVE LABORATORIES (2-107A). EXTEND, OFFSET AND TRANSITION PIPING AS REQUIRED TO SERVE BOTH FIXTURES.



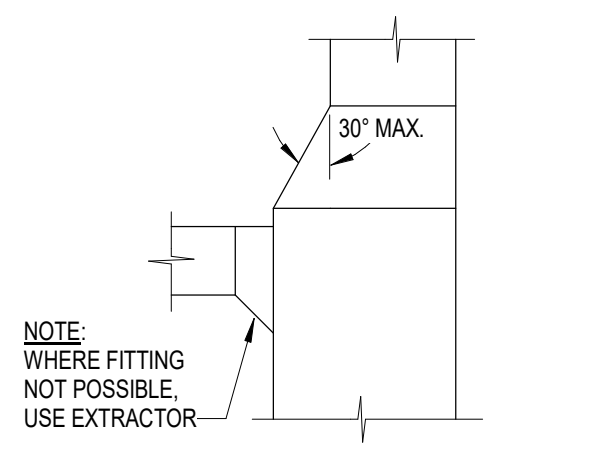
"Y" BRANCH FITTING



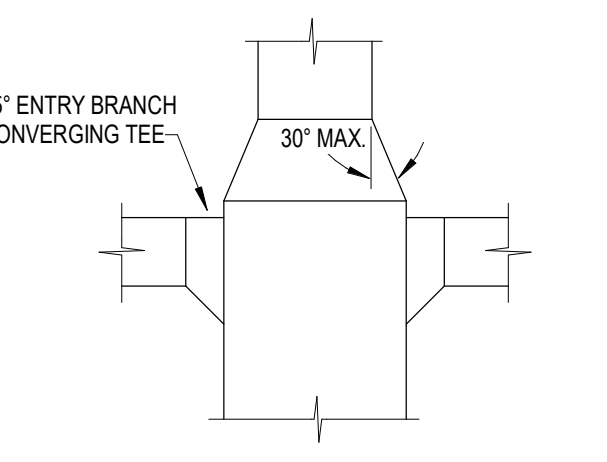
90° ELBOW



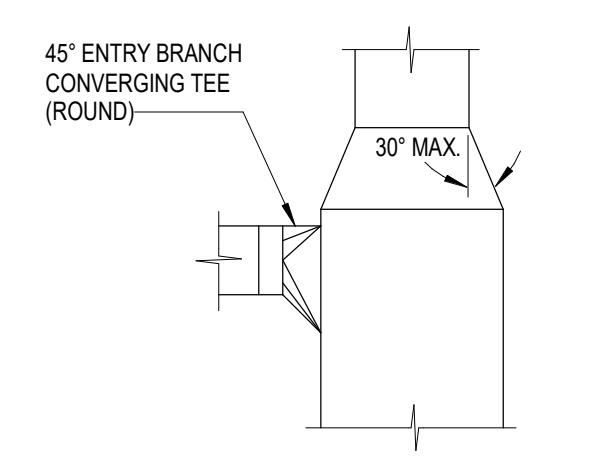
DIFFUSER TAKE-OFF



SINGLE BRANCH TAKE-OFF

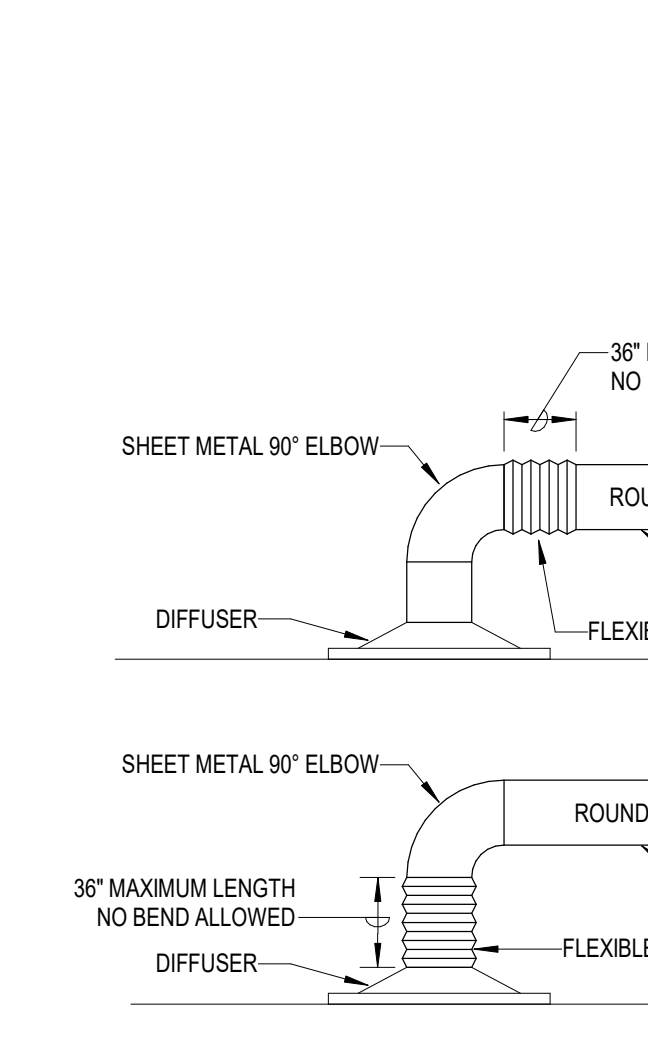


DOUBLE BRANCH TAKE-OFF

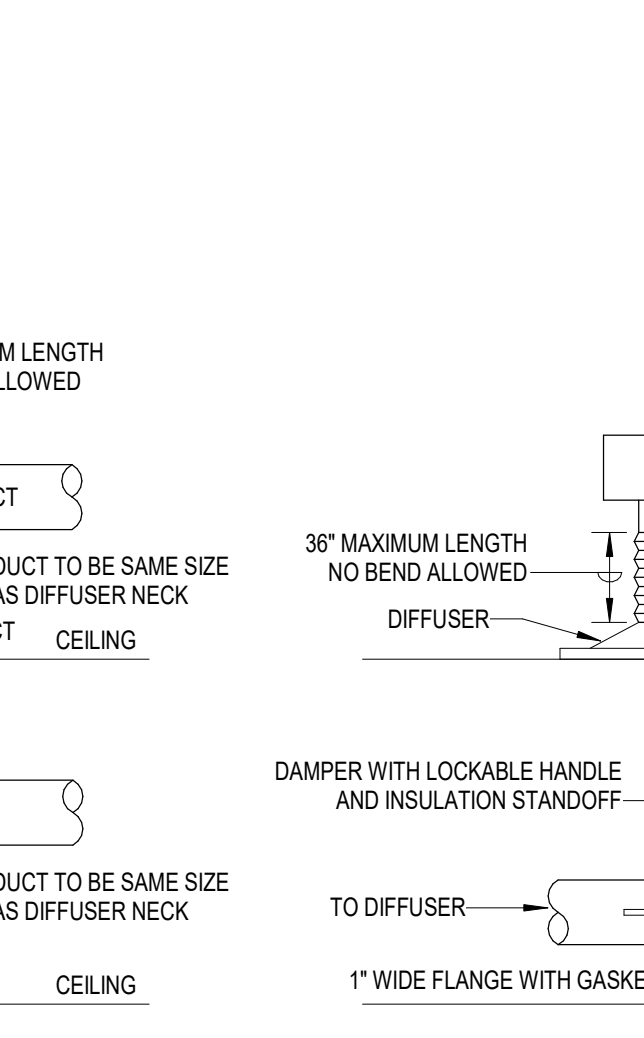


45° ROUND TAKE-OFF

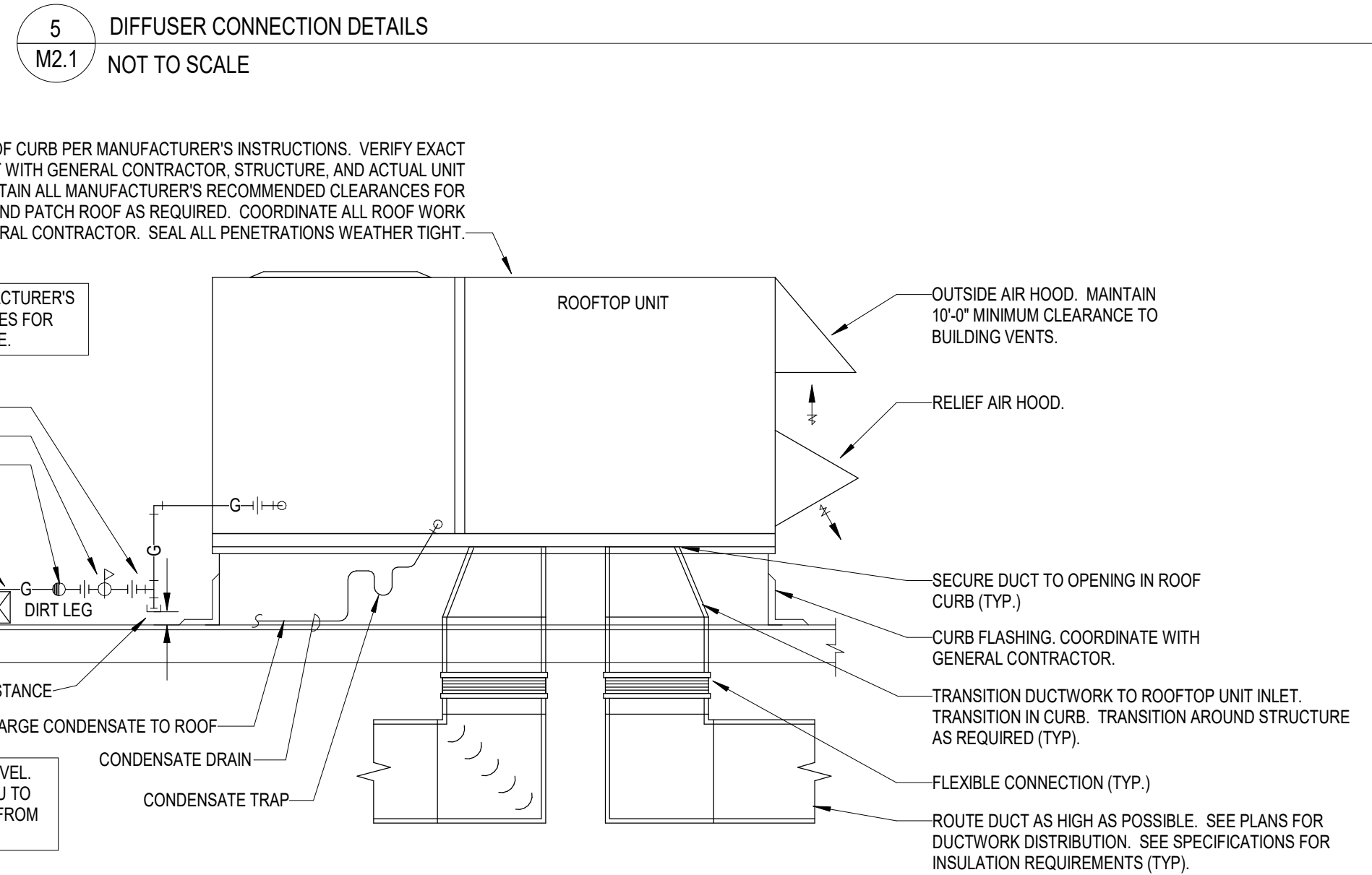
4 DUCT FITTING DETAILS
M2.1
NOT TO SCALE



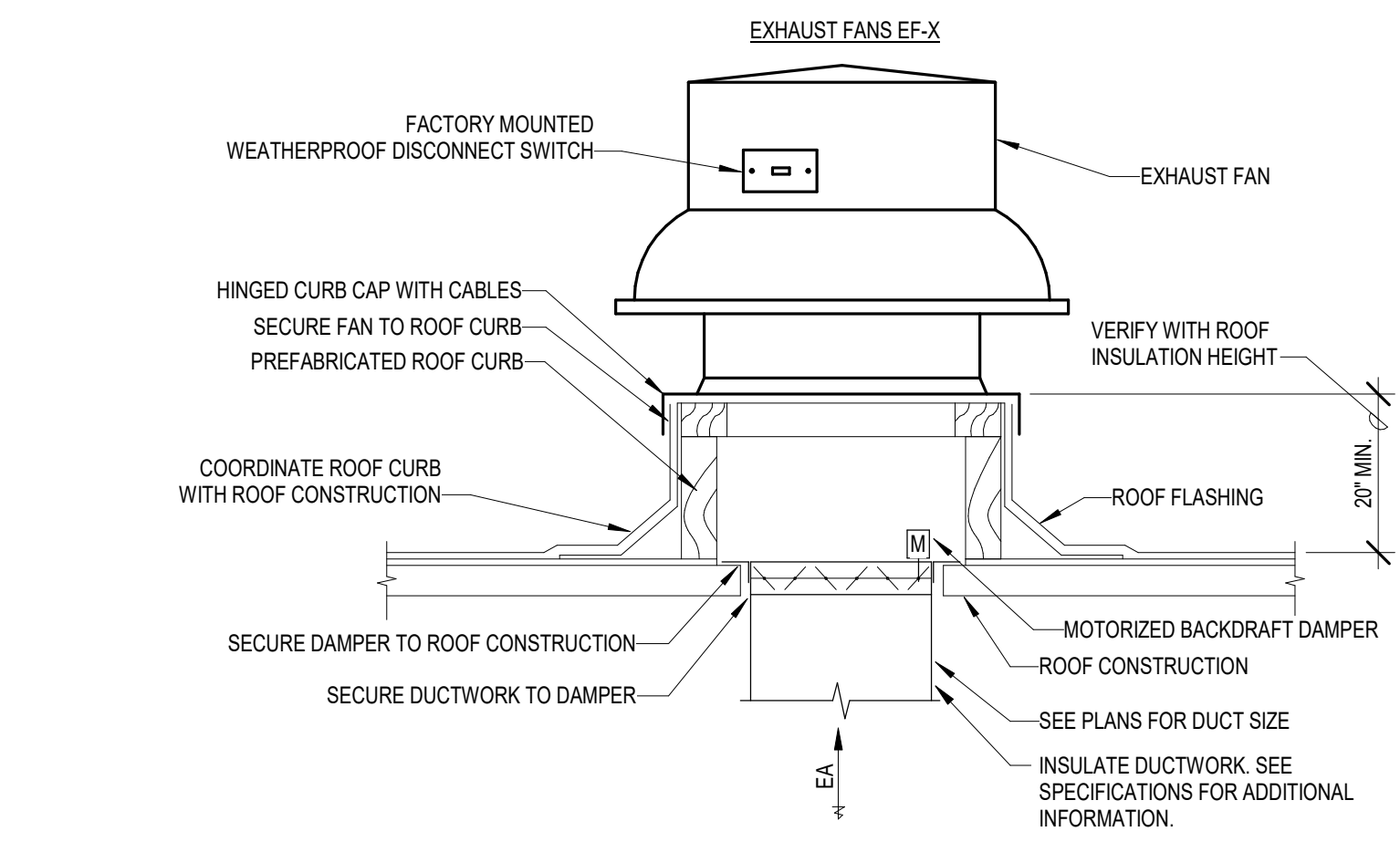
5 DIFFUSER CONNECTION DETAILS
M2.1
NOT TO SCALE



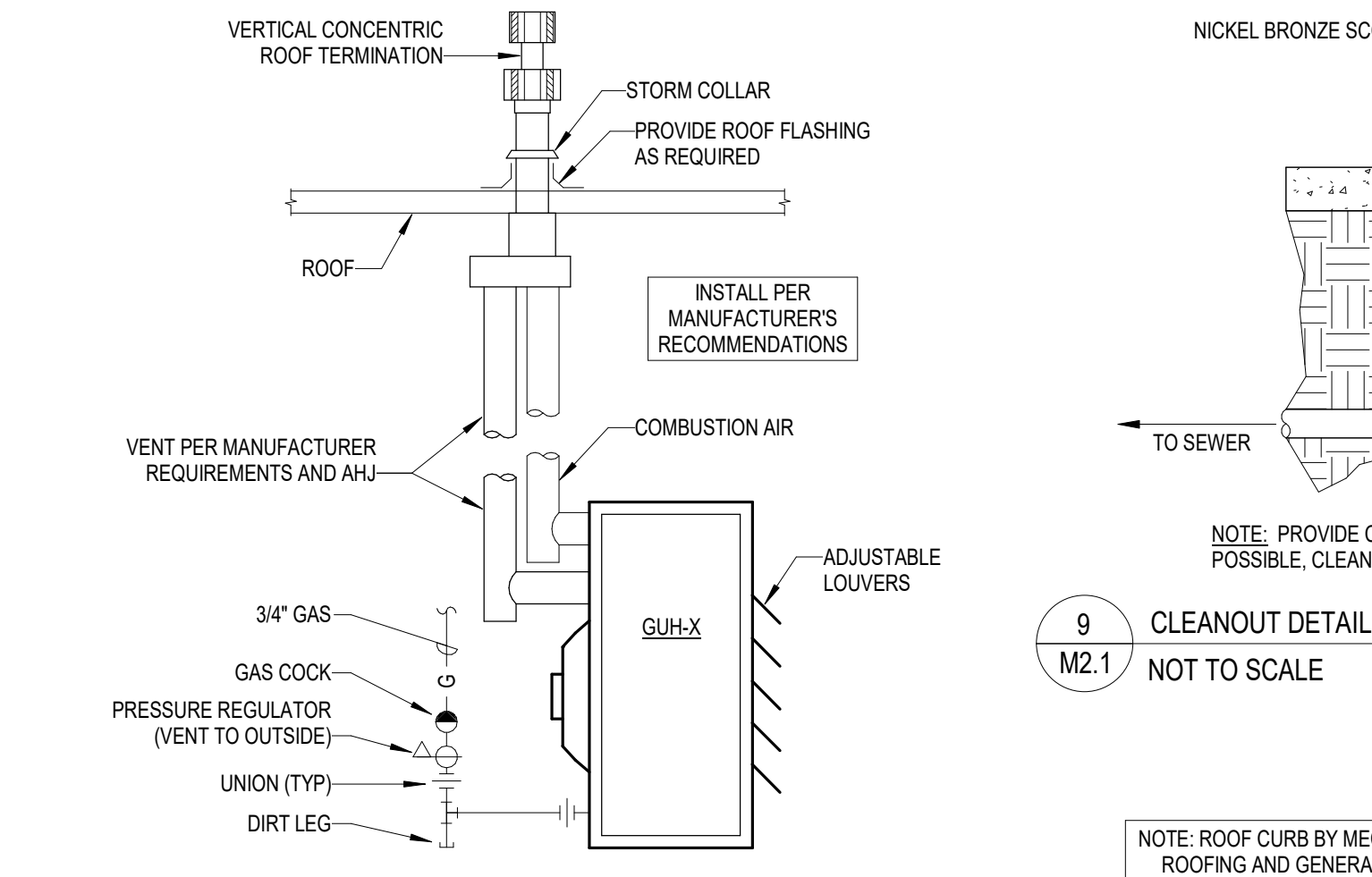
6 DIFFUSER CONNECTION DETAILS
M2.1
NOT TO SCALE



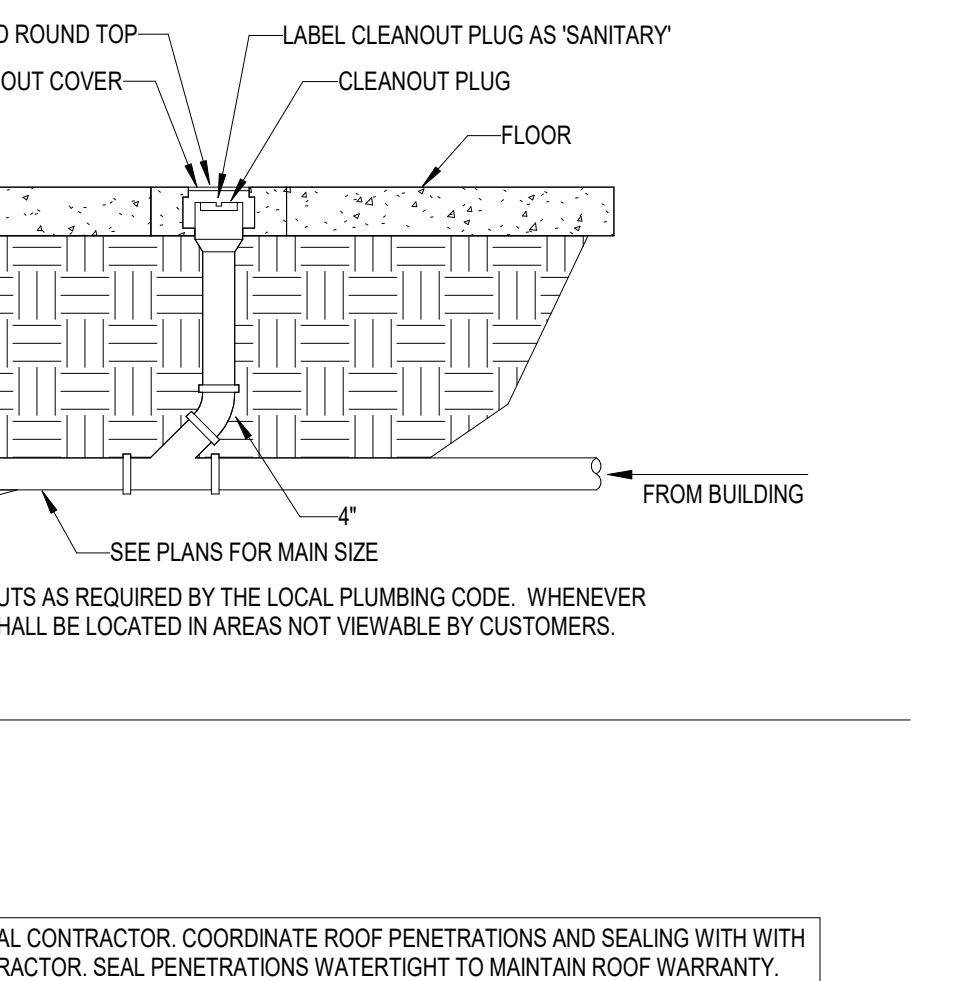
7 ROOFTOP UNIT (RTU-X) DETAIL
M2.1
NOT TO SCALE



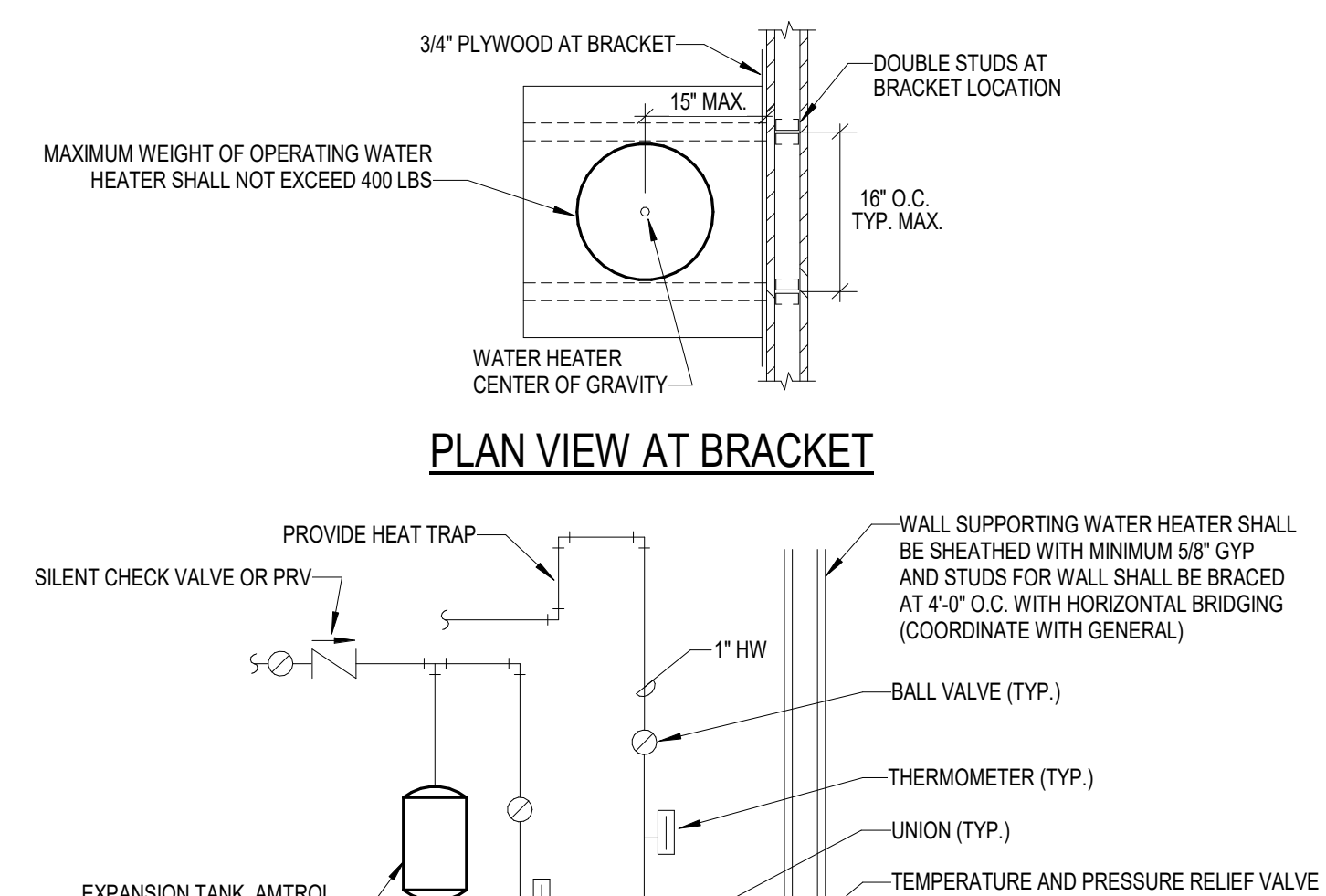
8 ROOF MOUNTED FAN DETAIL
M2.1
NOT TO SCALE



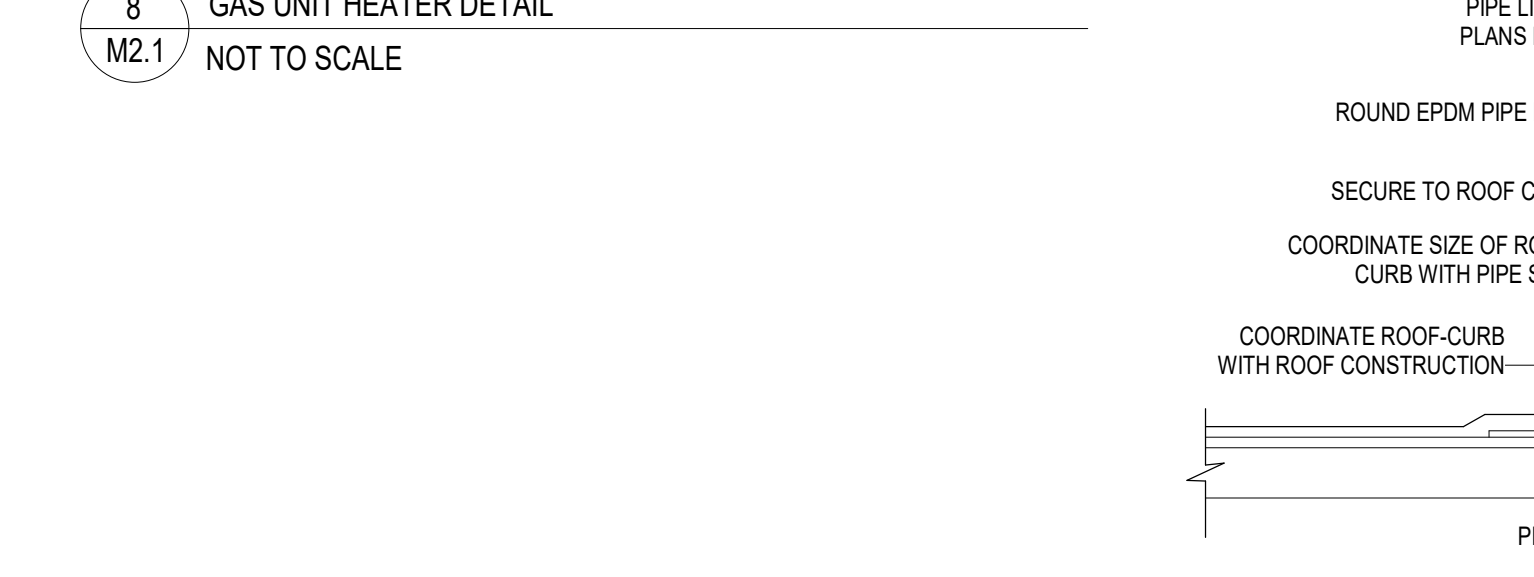
9 GAS UNIT HEATER DETAIL
M2.1
NOT TO SCALE



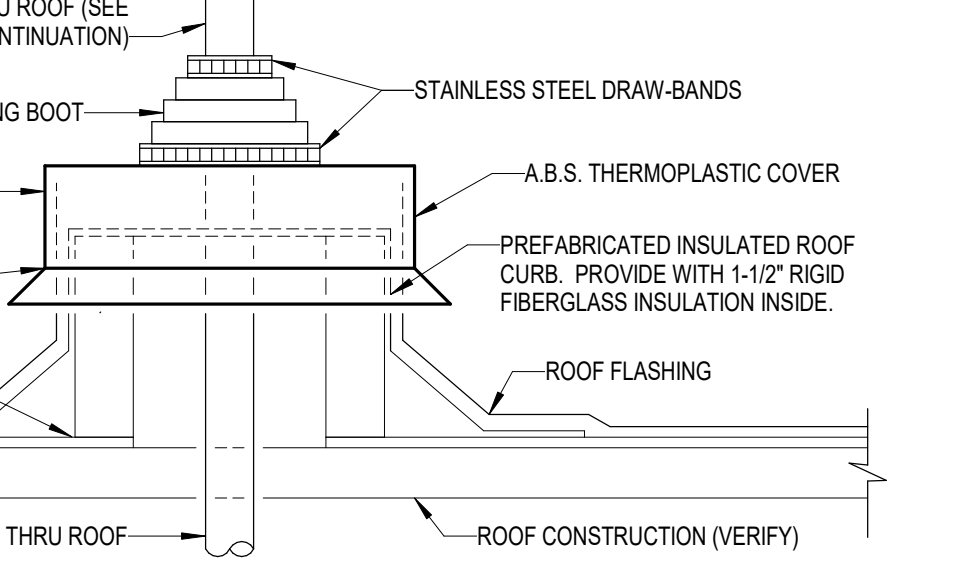
10 CLEANOUT DETAIL
M2.1
NOT TO SCALE



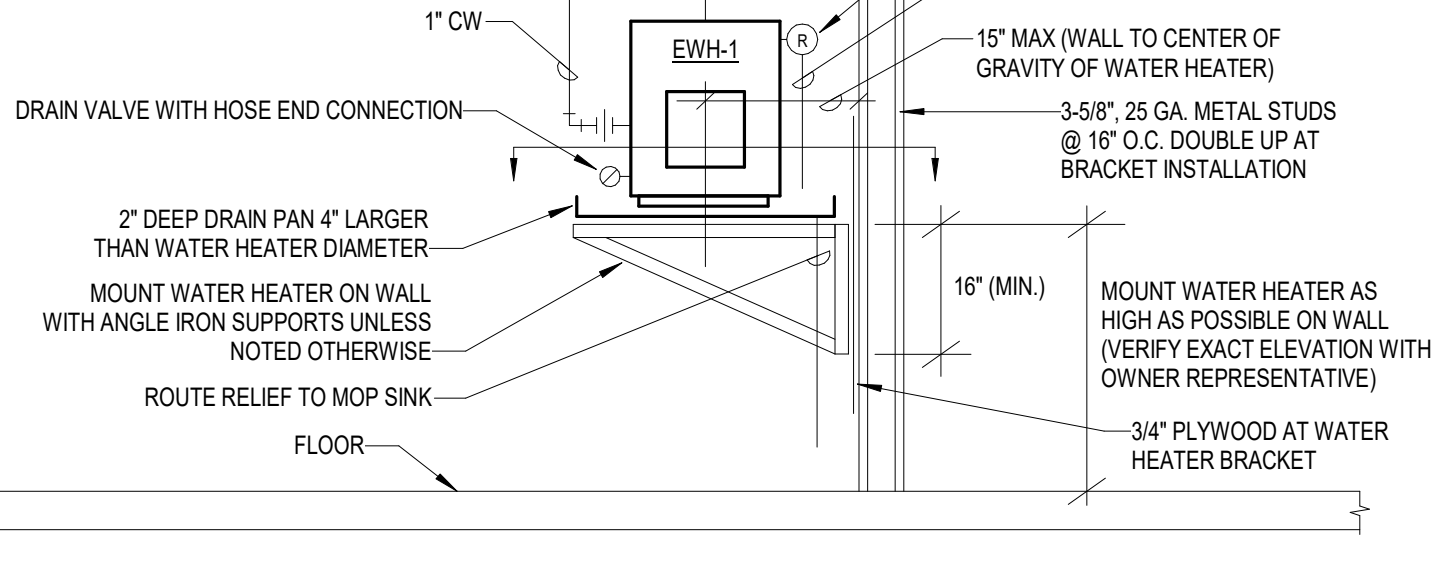
11 ELECTRIC WATER HEATER DETAIL
M2.1
NOT TO SCALE



12 PIPE ROOF PENETRATION DETAIL
M2.1
NOT TO SCALE



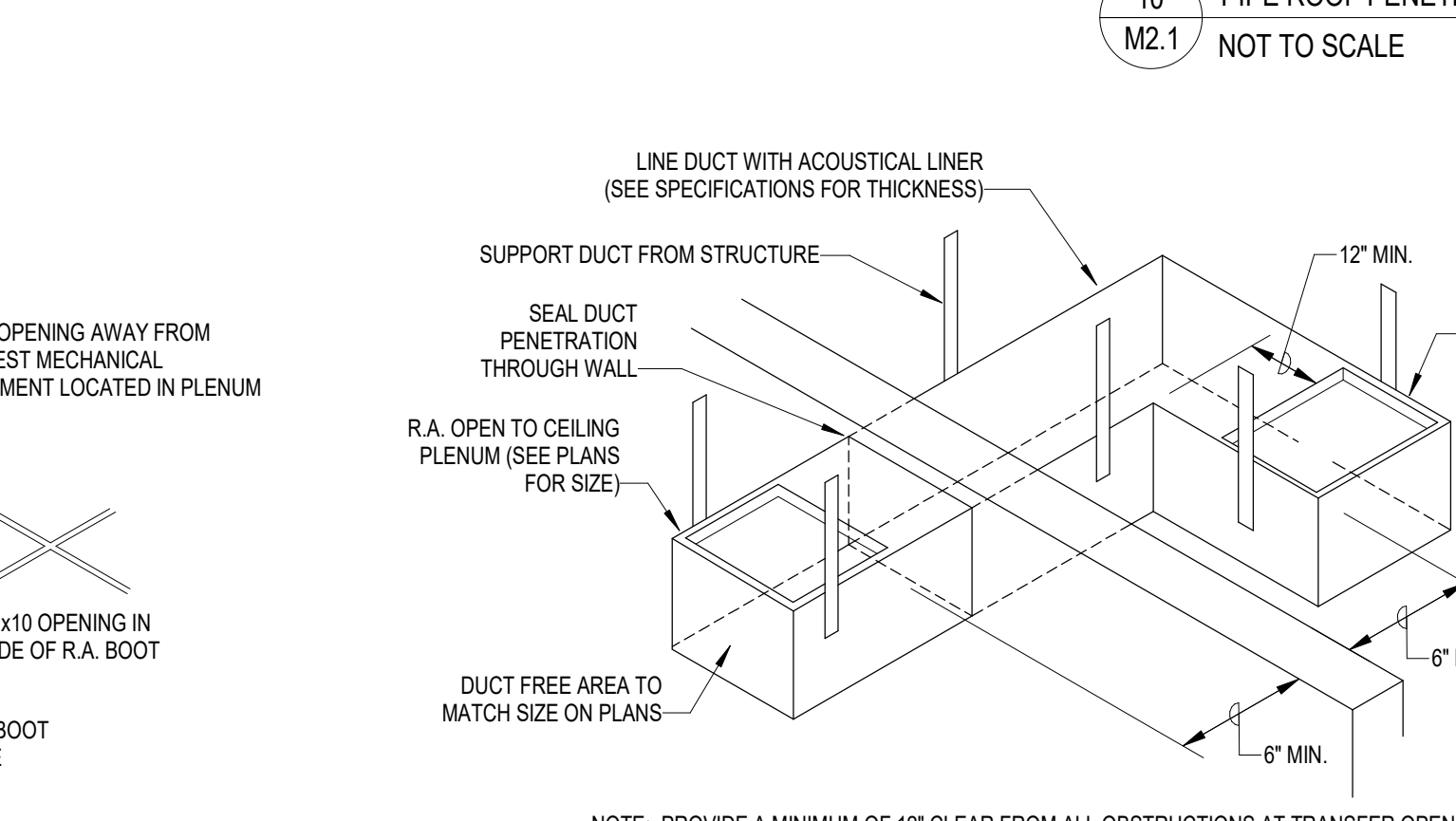
13 PIPE INSULATION DETAILS
M2.1
NOT TO SCALE



14 TRAPEZE HANGER FOR PIPE
M2.1
NOT TO SCALE



15 RETURN BOOT DETAILS
M2.1
NOT TO SCALE



16 TRANSFER AIR DUCT DETAIL
M2.1
NOT TO SCALE

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morrissey engineering inc.
460 North 15th Street
Lincoln, NE 68504
P: 402.401.4444
Nebaska COA Number: CA-0035
www.morrisseyengineering.com

DATE: _____
REVISION: _____
MARK: _____

MECHANICAL DETAILS

WESTGATE PLAZA ACE HARDWARE

agency approval

date: 06/25/2024
project number: 24069
approved by: CPR
designed by: CJB
sheet number:

M2.1

ROOF-TOP UNIT SCHEDULE

REMARKS:
 0. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCT BY ONE OF THE FOLLOWING MANUFACTURERS: CARRIER, LENOX, AAO, YORK, TRANE.
 1. DOWNFLOW, VARIABLE AIR VOLUME, ROOFTOP UNIT WITH DX COOLING, AND GAS HEATING.
 2. PROVIDE WITH CONDENSER COIL, HALL GUARDS IF NOT INTEGRAL TO CONDENSER COIL CONFIGURATION.
 3. PROVIDE WITH DIFFERENTIAL ENTHALPY CONTROLLED OUTSIDE AIR ECONOMIZER AND POWERED EXHAUST FANS.
 4. PROVIDE WITH INSULATED 2" ROOF CURB. DIMENSIONS GIVEN ARE FOR UNIT ONLY, AND DO NOT INCLUDE CURB HEIGHT. STANDARD UNIT WEIGHT GIVEN; WEIGHT FOR CURB AND UNIT ACCESSORIES NOT INCLUDED. CONTRACTOR SHALL CONFIRM ROOF INSULATION THICKNESS AT FINAL PLACEMENT OF EQUIPMENT. PROVIDE ROOF CURB HEIGHT TO ALLOW A MINIMUM 8" ROOF FLASHING UP TO NAILER (VERIFY REQUIRED FLASHING DIMENSION WITH ROOFING CONTRACTOR). INCREASE INDICATED CURB HEIGHT AS REQUIRED.
 5. INTEGRATED SOLID-STATE CONTROLS WITH BLOWER AND LIMIT CONTROLS. PROVIDE WITH THERMOSTAT, WHICH SHALL HAVE THE FOLLOWING FEATURES: 7-DAY PROGRAMMABLE WITH FAN ON/OFF/AUTO, SETBACK CAPABILITIES, 2-HOUR MANUAL OVERRIDE, AND 5°F DEADBAND.
 6. PROVIDE UNIT WITH SUPPLY AIR AND RETURN AIR SMOKE DETECTORS. UNIT SHALL SHUT DOWN UPON SMOKE DETECTION. SEE ELECTRICAL DRAWINGS.
 7. PROVIDE WITH SINGLE POINT CONNECTION AND FACTORY INSTALLED DISCONNECT.
 8. PROVIDE WITH FIELD POWERED OFI CONVENIENCE RECEPTACLE.
 9. PROVIDE WITH 5" MERV 13 FILTERS WITH DIRTY FILTER STATUS SWITCH.
 10. PROVIDE WITH STAINLESS STEEL HEAT EXCHANGERS WITH 10-YEAR MINIMUM WARRANTY.
 11. PROVIDE WITH STAINLESS STEEL CONDENSATE DRAIN PAN AND CONDENSATE OVERFLOW SWITCH.
 12. PROVIDE WITH 5-YEAR COMPRESSOR WARRANTY.
 13. VERIFY TOTAL STATIC PRESSURE WITH MANUFACTURER'S COMPONENTS. EXTERNAL STATIC PRESSURE DOES NOT INCLUDE FILTER, COOLING COIL, AND OTHER RTU COMPONENTS. OVERALL ROOFTOP UNIT STATIC PRESSURE RATING SHALL ACCOMMODATE PRESSURE DROP VALUES OF A WET COIL, MID-LIFE FILTER, INTERNAL UNIT PRESSURE DROP AND EXTERNAL STATIC PRESSURE INDICATED.
 14. PROVIDE WITH DIRECT DRIVE ECM CONTROLLED FAN. BRAKE HORSEPOWER SHALL NOT EXCEED 85% OF NOMINAL MOTOR HORSEPOWER.

PLAN TAG	MFR. (0)	MODEL	SERVES	CONFIG.	PHYSICAL SIZE (4)		AIRFLOW (CFM)		SUPPLY FAN			ELECTRICAL (7)			DX COOLING				GAS FIRED HEATING				REMARKS								
					DIMENSIONS (W x H x L)	WEIGHT (lbs.)	TOTAL SUPPLY AIRFLOW	ECONOMIZER	MINIMUM OA	AIRFLOW (CFM)	E.S.P. (in-wg)	BLOWER TYPE	VOLTAGE / PHASE	MCA	MOCP	NOM TONS	CAPACITY (BTU/H)		AMBIENT AIR TEMP (DB °F)		MIN. NET EER			# OF STAGES		TEMPERATURES (°F)					
																	TOTAL	SENSIBLE	DB / WB	(EAT) / LAT	DB / WB	(EAT) / LAT		FUEL	HIGH (BTU/H) INPUT	LOW (BTU/H) OUTPUT	# OF STAGES	EFF.			
RTU-1	CARRIER	48FCM12	SEE PLANS	(1)	60" x 49" x 88"	900	3,680	3,680	700	3,680	0.75	DIRECT	208 V / 3	54.0 A	60.0 A	10	123,100	89,200	95.0	15	2	80.0 / 67.0	54.5 / 54.4	NATURAL GAS	180,000	147,600	120,000	98,400	2	82.0%	(1-15)
RTU-2	CARRIER	48FCM12	SEE PLANS	(1)	60" x 49" x 88"	900	3,680	3,680	700	3,680	0.75	DIRECT	208 V / 3	54.0 A	60.0 A	10	123,100	89,200	95.0	15	2	80.0 / 67.0	54.5 / 54.4	NATURAL GAS	180,000	147,600	120,000	98,400	2	82.0%	(1-15)
RTU-3	CARRIER	48FCM12	SEE PLANS	(1)	60" x 49" x 88"	900	3,680	3,680	700	3,680	0.75	DIRECT	208 V / 3	54.0 A	60.0 A	10	123,100	89,200	95.0	15	2	80.0 / 67.0	54.5 / 54.4	NATURAL GAS	180,000	147,600	120,000	98,400	2	82.0%	(1-15)
RTU-4	CARRIER	48FCM12	SEE PLANS	(1)	60" x 49" x 88"	900	3,680	3,680	700	3,680	0.75	DIRECT	208 V / 3	54.0 A	60.0 A	10	123,100	89,200	95.0	15	2	80.0 / 67.0	54.5 / 54.4	NATURAL GAS	180,000	147,600	120,000	98,400	2	82.0%	(1-15)
RTU-5	CARRIER	48FCM12	SEE PLANS	(1)	60" x 49" x 88"	900	3,680	3,680	700	3,680	0.75	DIRECT	208 V / 3	54.0 A	60.0 A	10	123,100	89,200	95.0	15	2	80.0 / 67.0	54.5 / 54.4	NATURAL GAS	180,000	147,600	120,000	98,400	2	82.0%	(1-15)
RTU-6	CARRIER	48FCM12	SEE PLANS	(1)	47" x 33" x 74"	500	1,080	1,080	110	1,080	1.00	DIRECT	208 V / 3	27.0 A	30.0 A	3	34,200	23,800	95.0	11.5	1	80.0 / 67.0	54.5 / 54.4	NATURAL GAS	65,000	52,700	0	0	1	81.0%	(1-15)

AIR CURTAIN SCHEDULE

REMARKS:
 1. MOUNT UNIT ABOVE DOOR AND INSTALL PER MANUFACTURER RECOMMENDATIONS.
 2. PROVIDE WITH REMOTE MOUNTED NON-FUSED DISCONNECT.
 3. FREE DISCHARGE.
 4. POWDER COATED DECORATIVE INTAKE GRILLE. FINISH SHALL BE BLACK TO BE CONFIRMED BY ARCHITECT.
 5. UNIT SHALL BE CONTROLLED WITH MOTION DETECTOR WITH BUILT IN TIME DELAY RELAY. AIR CURTAIN SHALL ENABLE BASED ON OUTSIDE AIR TEMPERATURE (CONTRACTOR SHALL COORDINATE TEMPERATURE SENSOR LOCATION WITH OWNER AND ARCHITECT).
 6. PROVIDE WITH DIGITAL CONTROLLER WITH THE FOLLOWING FEATURES: TIME DELAY, FAN SPEED SELECTION, ON/OFF/AUTO OPERATION, START/STOP TIMES, TRANSFORMER FOR 24V CONTROL, TIME CLOCK, LED DISPLAY, EMERGENCY STOP, PRESET PROGRAMS, AND LOCKABLE DISPLAY.
 7. 24V MAGNETIC REED LIMIT SWITCH FOR AUTOMATIC ON/OFF ACTIVATION OF THE AIR CURTAIN FAN WITH THE OPENING AND CLOSING OF THE DOOR. FIELD INSTALLED AND WIRED.
 8. AMCA CERTIFIED AIR PERFORMANCES WITH ELECTRIC HEATER AND LICENSED TO BEAR THE AMCA SEAL.
 9. ALUMINUM WASHABLE AIR INLET FILTER CONCEALED ON THE BACK OF THE AIR INLET SCREEN.

PLAN TAG	MFR.	MODEL	SERVES	FINISH	SIZE		FAN (8)		ELECTRICAL (2)			MOTOR		HEATING		REMARKS	
					WIDTH	HEIGHT	CFM	ESP (IN WC)	NCA	FLA	VOLTAGE / PHASE	QTY	HP	TYPE	CAPACITY (KW)		TEMP RISE (°F)
					ACUR-1A	MARS	STD296-2EBH-OB	WEST ENTRY	(4)	8'-0"	230	2,296	(3)	78.8 A	63 A		208 / 1
ACUR-1B	MARS	STD296-2EBH-OB	WEST ENTRY	(4)	8'-0"	230	2,296	(3)	78.8 A	63 A	208 / 1	2	0.5	TEAO	12.0	17	(1-9)
ACUR-1C	MARS	STD296-2EBH-OB	SOUTH ENTRY	(4)	8'-0"	230	2,296	(3)	78.8 A	63 A	208 / 1	2	0.5	TEAO	12.0	17	(1-9)

ELECTRIC WATER HEATER SCHEDULE

REMARKS:
 0. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCT BY ONE OF THE FOLLOWING MANUFACTURERS: A.O. SMITH, STATE INDUSTRIES, RHEEM MANUFACTURING AND PVI.
 1. ELECTRIC WATER HEATER WITH INTEGRAL GLASS-LINED TANK.
 2. PROVIDE WITH PRESSURE / TEMPERATURE RELIEF VALVE.
 3. ELECTRICAL DISCONNECT BY ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS. COORDINATE ELECTRICAL REQUIREMENTS WITH SUPPLIED UNIT AND WITH ELECTRICAL CONTRACTOR.
 4. DUAL, SIMULTANEOUS ELECTRIC HEATING ELEMENTS.

PLAN TAG	MFR. (0)	MODEL	SERVES	TANK		DOMESTIC HOT WATER			ELECTRICAL		ELECTRIC HEAT		REMARKS		
				STORAGE CAPACITY	DIMENSIONS (DIA. Ø x H)	RECOVERY	DISCHARGE TEMP.	TEMP. RISE	VOLTAGE / PHASE	FLA	CAPACITY (KW)	WATT		# OF ELEMENTS	
EW-1	A.O. SMITH	DEL-10	DCM. HW	10	18"Ø x 19"	15 GP	120 °F	80 °F	208 V / 1	14.4 A	3.0 KW	1.5 KW	1	2	(1)(2)(3)(4)

GAS UNIT HEATER SCHEDULE

REMARKS:
 1. GAS FIRED, SEPARATED COMBUSTION, LOW STATIC, AXIAL FAN UNIT HEATER.
 2. PROVIDE WITH ADJUSTABLE DISCHARGE LOUVERS, FAN GUARDS, AND FACTORY MOUNT DISCONNECT SWITCH. PROVIDE WITH MOUNTING BRACKET AND VIBRATION ISOLATORS.
 3. PROVIDE WITH CONCENTRIC ROOF TERMINATION.
 4. PROVIDE WITH 24V THERMOSTAT (REMOTE MOUNT) AND CONTROL TRANSFORMER. THERMOSTAT SHALL HAVE FAN ONLY SWITCH TO ALLOW FAN (NO HEAT) TO OPERATE MANUALLY.
 5. STANDARD COLOR SELECTED BY ARCHITECT.
 6. FREE DISCHARGE.

PLAN TAG	MFR.	MODEL	SERVES	CONFIG.	PHYSICAL SIZE		FAN		MOTOR		ELECTRICAL		HEATING				REMARKS										
					DIMENSIONS (D x W x H)	WEIGHT (lbs)	AIRFLOW (CFM)	E.S.P. DRIVE	HP	RPM	TYPE	CONTROL DEVICE	VOLTAGE / PHASE	FLA	MOCP	CAPACITY (BTU/H)		GAS FUELED HEATING		# OF STAGES	CONN. SIZES						
					FUEL	INPUT	OUTPUT	IN	EXH.																		
GUH-1	REZNOR	LDX-075	STOCK ROOM	(1)	26" x 27" x 17"	80	1	961	(6)	-	0.06	1550	T.E.F.M.	(4)	120 V / 1	3.7 A	15.0 A	62,300	NATURAL GAS	75,000	62,300	2	83%	1/2"	4"	4"	(2)(3)(5)
GUH-2A	REZNOR	LDX-090	STOCK ROOM	(1)	26" x 27" x 17"	80	1	769	(6)	-	0.06	1550	T.E.F.M.	(4)	120 V / 1	2.4 A	15.0 A	49,800	NATURAL GAS	60,000	49,800	2	83%	1/2"	4"	4"	(2)(3)(5)
GUH-2B	REZNOR	LDX-090	STOCK ROOM	(1)	26" x 27" x 17"	80	1	769	(6)	-	0.06	1550	T.E.F.M.	(4)	120 V / 1	2.4 A	15.0 A	49,800	NATURAL GAS	60,000	49,800	2	83%	1/2"	4"	4"	(2)(3)(5)

FAN SCHEDULE

REMARKS:
 0. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCT BY ONE OF THE FOLLOWING MANUFACTURERS: ACME, GREENHECK, COOK, TWIN CITY.
 1. ROOF MOUNTED, DIRECT DRIVE, CENTRIFUGAL, DOWNBLAST EXHAUST FAN.
 2. PROVIDE WITH 2" INSULATED ROOF CURB COMPATIBLE WITH ROOFING SYSTEM. CONTRACTOR SHALL CONFIRM ROOF INSULATION THICKNESS AT FINAL PLACEMENT OF EQUIPMENT. PROVIDE ROOF CURB HEIGHT TO ALLOW A MINIMUM 8" ROOF FLASHING UP TO NAILER (VERIFY REQUIRED FLASHING DIMENSION WITH ROOFING CONTRACTOR). INCREASE INDICATED CURB HEIGHT AS REQUIRED. ALSO PROVIDE BIRDSCREEN, FAN MOUNTED SPEED CONTROLLER, MOTORIZED DAMPER (SAME VOLTAGE AS FAN MOTOR & INTERLOCKED WITH FAN), AND ELECTRICAL DISCONNECT.
 3. DIRECT DRIVE WITH EC MOTOR.
 4. TIMELOCK BY ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS. FAN TO RUN CONTINUOUSLY DURING OCCUPIED HOURS.
 5. WALL SWITCH WITH TIMER AND SPEED CONTROL FUNCTIONS. COORDINATE LOCATION OF SWITCH WITH ARCHITECT AND OWNER. SEE ELECTRICAL DRAWINGS.

PLAN TAG	MFR. (0)	MODEL	SERVES	TYPE	ACC.	PHYSICAL SIZE		FAN		MOTOR		ELECTRICAL		HEATING		REMARKS						
						ROOF / WALL OPENING SIZE	WEIGHT (lbs)	DIMENSIONS (D x W x H)	AIRFLOW (CFM)	E.S.P. (in-wg)	WHEEL TYPE	DIA. Ø	DRIVE	MAXIMUM RPM	BHP		HP	RPM	VOLTAGE / PHASE	TYPE	CONTROL DEVICE	
						EF-1	GREENHECK	G-098-VG	RESTROOMS	DOWNBLAST (1)	(2)	14.5" x 14.5"	40	24" x 24" x 24"	375 CFM		0.75	B.I.	11.2"	DIRECT	1725	8.7
EF-2	GREENHECK	G-126-VG	STOCK ROOM	DOWNBLAST (1)	(2)	14.5" x 14.5"	50	24" x 24" x 24"	1200 CFM	0.50	B.I.	13.0"	DIRECT	1725	10.3	0.18	0.50	1312	120 V / 1	O.D.P.	(5)	(1)(2)(3)

DIFFUSER REGISTER AND GRILLE SCHEDULE (1) (2)

REMARKS:
 0. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCT BY ONE OF THE FOLLOWING MANUFACTURERS: KRUEGER, NAILOR, PRICE, OR TITUS.
 1. VERIFY ALL FRAMES, FINISHES, AND ACCESSORIES WITH CEILING CONSTRUCTION PRIOR TO FURNISHING MATERIAL.
 a. VERIFY QUANTITIES WITH PLANS.
 b. SEE PLANS FOR NECK SIZES.
 2. NOISE CRITERIA (NC) SHALL BE LESS THAN 25 ON DIFFUSERS, REGISTERS AND GRILLES LOCATED IN OCCUPIED SPACES.
 3. NON-RADIAL OPPOSED BLADE DAMPER. MAIN BALANCING SHALL BE DONE WITH BRANCH VOLUME DAMPER AT TAKEOFF LOCATION OF MAIN DUCT. OPPOSED BLADE DAMPER SHALL BE USED FOR FINE TUNING ONLY.
 4. COORDINATE FINAL FINISH WITH ARCHITECT PRIOR TO THE ORDERING OF DIFFUSERS, GRILLES AND REGISTERS.
 5. PROVIDE RETURN AIR BOOT. SEE DETAIL ON SHEET M2.1.
 6. ROUND DUCT MOUNTED REGISTER WITH DAMPER / EXTRACTOR, FOAM GASKET AND RADIUS MATCHING DUCT SIZE (ACCOUNT FOR DOUBLE WALL DUCT WHERE APPLICABLE).
 7. PRIMER COAT WITH FIELD PAINTING.

APPX. QTY. (1a,1b)	PLAN TAG	MFR. (0)	MODEL	FUNCTION	DESCRIPTION	MOUNTING (1)	DEFLECTION	AIR P.D. (IN WG)	MATERIAL	FINISH (4)	NECK SIZE	FACE SIZE	REMARKS
8	D-1	KRUEGER	PLQ	SUPPLY	PLAQUE DIFFUSER	ACTGYP CEILING	360°	0.10"	STEEL	WHITE	SEE PLANS	24"x24"	(1)(2)(3)
1	D-2	KRUEGER	PLQ	SUPPLY	PLAQUE DIFFUSER	ACTGYP CEILING	360°	0.10"	STEEL	WHITE	SEE PLANS	12"x12"	(1)(2)(3)
3	DD-1	RSS ROOFTOP SYSTEMS	90-578-10	SUPPLY	DRUM DIFFUSER	EXPOSED	6-WAY	0.42"	STEEL	WHITE	22"x22"	48"x48"	(1)(2)(3)
6	G-1	KRUEGER	6490	RETURN / XFR	RECT NECK PERFORATED FACE	ACTGYP CEILING	PERFORATED	0.10"	STEEL	WHITE	12"x24"	(1)(2)(5)	
4	R-1	KRUEGER	580H	EXHAUST	RECT SINGLE DEFLECTION GRILLE	ACTGYP CEILING	SINGLE 3/4"	0.10"	ALUMINUM	WHITE	SEE PLANS	NECK SIZE + 1-3/4"	(1)(2)(3)
22	RR-1	KRUEGER	50MKDR	SUPPLY	DUCT MOUNTED REGISTER	DUCT	DOUBLE 3/4"	0.10"	ALUMINUM	(7)	SEE PLANS	NECK SIZE + 1-3/4"	(1)(2)(3)(5)(7)

PLUMBING FIXTURE SCHEDULE

TAG	CONNECTIONS			REMARKS (1)(2)
	CW	HW	WASTE VENT	
WC-1	1/2"	-	4" 2"	-
WC-2	1/2"	-	4" 2"	-
UR-1	3/4"	-	2" 1-1/2"	-
L-1	1/2"	1/2"	1-1/4" 1-1/4"	-
S-1	1/2"	1/2"	1-1/2" 1-1/2"	-
EW-1	1/2"	-	1-1/4" 1-1/4"	-
MS-1	3/4"	3/4"	3" 2"	-
FD-1	-	-	(3) (3)	-

REMARKS:
 1. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS INCLUDING STOPS, FITTINGS AND ALL OTHER SPECIALTIES.
 2. SPECIFIC PLUMBING FIXTURES WILL BE DETAILED IN SELECTION PACKAGE FURNISHED BY CONTRACTOR AND OWNER. COORDINATE EXACT PLUMBING REQUIREMENTS WITH PACKAGE.
 3. SEE FLOOR PLANS FOR WASTE AND VENT SIZE REQUIREMENTS.

DUCTWORK INSULATION SCHEDULE (1) (2)

SERVICE	DUCTWORK	APPLICATION	INSULATION TYPE	INSULATION THICKNESS	MINIMUM R-VALUE	VAPOR RETARDER	REMARKS
SUPPLY AIR	RECTANGULAR	CONCEALED ABOVE CEILING	MINERAL FIBER BLANKET	2-3/16"	R-6	YES	-
SUPPLY AIR	RECTANGULAR	EXPOSED	DUCT LINER	1-1/2"	R-6	YES	(3)(4)
RETURN AIR	RECTANGULAR	EXPOSED AND CONCEALED	DUCT LINER	1-1/2"	R-6	YES	(3)
RETURN / XFR AIR	RECTANGULAR	PLENUM BOOTS & TRANSFER DUCTS	DUCT LINER	1"	-	NO	-
EXHAUST AIR	FROM FAN	BACK 38" INTO BUILDING	MINERAL FIBER BLANKET	2-3/16"	R-6	YES	-

REMARKS:
 1. INSULATION TYPE AND THICKNESS SHALL MEET ALL REQUIREMENTS OF 2018 IECC / ASHRAE 90.1-2016.
 2. SEE SPECIFICATION SECTION 23 07 00 FOR ADDITIONAL INFORMATION.
 3. PROVIDE EXPOSED DUCTWORK WITH PAINT GRIP WHERE APPLICABLE. COORDINATE FINAL PAINT FINISH WITH ARCHITECT.
 4. PROVIDE DUCT LINERS SPECIFICALLY FOR ROUND DUCT (JOHNSMANVILLE SPRACIOUSIC OR APPROVED EQUAL).

PIPING INSULATION SCHEDULE (1) (2) (3)

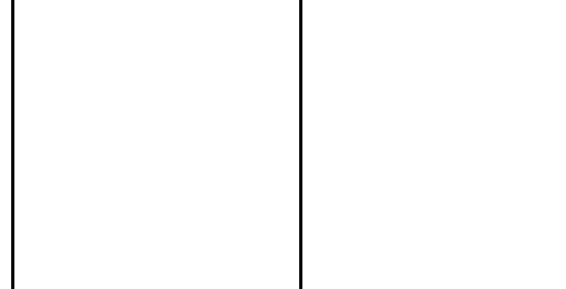
SERVICE	PIPING SIZES	INSULATION TYPE	INSULATION THICKNESS	VAPOR RETARDER	REMARKS
DOMESTIC COLD WATER (CW)	ALL	MINERAL FIBER	1/2"	YES	-
DOMESTIC HOT WATER (HW)	1/2" TO 2"	MINERAL FIBER	1/2"	YES	-
SANITARY WASTE	ALL	NONE	-	-	-
PLUMBING VENTS (24" BELOW ROOF)	ALL	MINERAL FIBER	1/2"	YES	-

REMARKS:
 1. SEE PIPING INSULATION DETAIL ON SHEET M2.1.
 2. INSULATION TYPE AND THICKNESS SHALL MEET ALL REQUIREMENTS OF 2018 IECC / ASHRAE 90.1-2016.
 3. SEE SPECIFICATION SECTIONS 22 07 20 & 23 07 20 FOR ADDITIONAL INFORMATION.

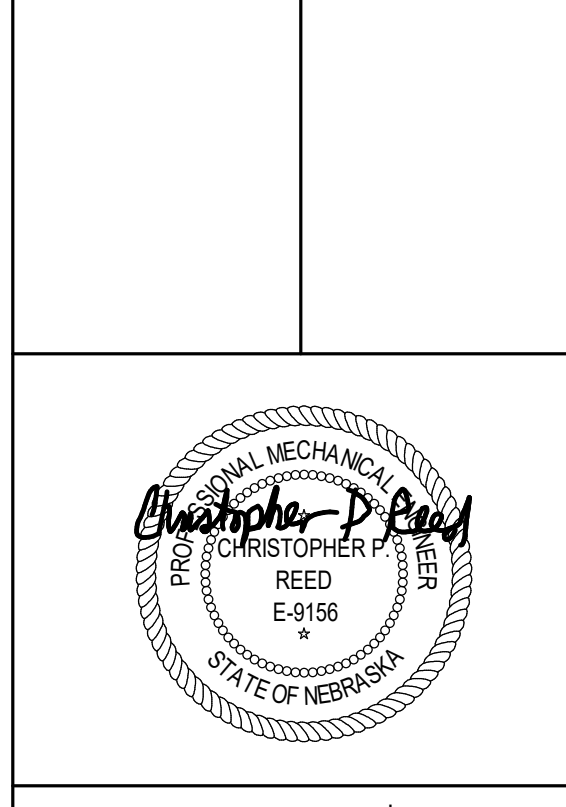
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MARK	REVISION	DATE



MECHANICAL SCHEDULES
WESTGATE PLAZA ACE HARDWARE



agency approval



COMcheck Software Version 4.1.1.0

Mechanical Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: 2018 IECC
Location: Omaha, Nebraska
Climate Zone: 5a
Project Type: Alteration

Construction Site: Owner/Agent: Designer/Contractor:

Mechanical Systems List

Quantity System Type & Description

1	RTU-1 (Single Zone) Heating: 1 each - Central Furnace, Gas, Capacity = 180 kBtu/h Proposed Efficiency = 82.00% EL, Required Efficiency: 80.00 % EL or 80% AFUE Cooling: 1 each - Single Package DX Unit, Capacity = 123 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 15.00 EER, Required Efficiency: 11.00 EER + 12.6 IEER Fan System: Unspecified
1	RTU-2 (Single Zone) Heating: 1 each - Central Furnace, Gas, Capacity = 180 kBtu/h Proposed Efficiency = 82.00% EL, Required Efficiency: 80.00 % EL or 80% AFUE Cooling: 1 each - Single Package DX Unit, Capacity = 123 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 15.00 EER, Required Efficiency: 11.00 EER + 12.6 IEER Fan System: Unspecified
1	RTU-3 (Single Zone) Heating: 1 each - Central Furnace, Gas, Capacity = 180 kBtu/h Proposed Efficiency = 82.00% EL, Required Efficiency: 80.00 % EL or 80% AFUE Cooling: 1 each - Single Package DX Unit, Capacity = 123 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 15.00 EER, Required Efficiency: 11.00 EER + 12.6 IEER Fan System: Unspecified
1	RTU-4 (Single Zone) Heating: 1 each - Central Furnace, Gas, Capacity = 180 kBtu/h Proposed Efficiency = 82.00% EL, Required Efficiency: 80.00 % EL or 80% AFUE Cooling: 1 each - Single Package DX Unit, Capacity = 123 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 15.00 EER, Required Efficiency: 11.00 EER + 12.6 IEER Fan System: Unspecified
1	RTU-5 (Single Zone) Heating: 1 each - Central Furnace, Gas, Capacity = 180 kBtu/h Proposed Efficiency = 82.00% EL, Required Efficiency: 80.00 % EL or 80% AFUE Cooling: 1 each - Single Package DX Unit, Capacity = 123 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 15.00 EER, Required Efficiency: 11.00 EER + 12.6 IEER Fan System: Unspecified
1	RTU-6 (Single Zone) Heating: 1 each - Central Furnace, Gas, Capacity = 60 kBtu/h Proposed Efficiency = 83.00% EL, Required Efficiency: 80.00 % EL or 80% AFUE Cooling: 1 each - Unit Heater, Gas, Capacity = 60 kBtu/h Proposed Efficiency = 83.00% EL, Required Efficiency: 80.00 % EL or 80% AFUE Fan System: Unspecified
1	GLUH-2A (Single Zone) Heating: 1 each - Unit Heater, Gas, Capacity = 60 kBtu/h Proposed Efficiency = 83.00% EL, Required Efficiency: 80.00 % EL or 80% AFUE Fan System: Unspecified
1	GLUH-2B (Single Zone) Heating: 1 each - Unit Heater, Gas, Capacity = 60 kBtu/h Proposed Efficiency = 83.00% EL, Required Efficiency: 80.00 % EL or 80% AFUE Fan System: Unspecified
1	ACUR-1A (Single Zone) Heating: 1 each - Unit Heater, Electric, Capacity = 41 kBtu/h No minimum efficiency requirement applies Fan System: Unspecified
1	ACUR-1B (Single Zone) Heating: 1 each - Unit Heater, Electric, Capacity = 41 kBtu/h No minimum efficiency requirement applies Fan System: Unspecified
1	ACUR-1C (Single Zone) Heating: 1 each - Unit Heater, Electric, Capacity = 41 kBtu/h No minimum efficiency requirement applies Fan System: Unspecified
1	EVH-1 Electric Storage Water Heater, Capacity: 10 gallons Proposed Efficiency: 3.00 SL, %/h (f > 12 kW), Required Efficiency: 3.00 SL, %/h (f > 12 kW)

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Colton Baylor - Project Engineer
Signature: Colton Baylor
Date: 06/25/2024

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
TYPICAL PIPING			
1/2" T	PIPE TEE / PIPE ELBOW	U	UNION
1/2" E	ELBOW DN / ELBOW UP	S	STRAINER
1/2" G	ISOLATION VALVE (BALL OR BUTTERFLY)	C	CHECK VALVE (ARROW INDICATES FLOW)
1/2" B	BALANCING VALVE	A	AUTOMATIC CONTROL VALVE TWO-WAY/THREE-WAY
1/2" G	GATE VALVE	R	PRESSURE REGULATING VALVE (PRV)
1/2" G	GLOBE VALVE	G	PRESSURE GAUGE
1/2" T	PRESSURE/TEMPERATURE TEST PORT	T	THERMISTOMETER
TYPICAL PLUMBING			
WC	WATER CLOSET (SEE SPECIFICATIONS FOR TYPE)	G	GAS COCK
UR	URINAL (SEE SPECIFICATIONS FOR TYPE)	F	FLOOR DRAIN - SIZE TYPE
L	LAVATORY (SEE SPECIFICATIONS FOR TYPE)	R	ROOF DRAIN - SIZE TYPE
S	SINK (SEE SPECIFICATIONS FOR TYPE)	O	OVERFLOW DRAIN - SIZE TYPE
EW	ELECTRIC WATER COOLER (SEE SPECIFICATIONS FOR TYPE)	H	HOSE BIBS
MS	MOP SINK (SEE SPECIFICATIONS FOR TYPE)	W	WALL HYDRANT (NON-FREEZE)
DI	DUCTILE IRON	V	VENT THROUGH ROOF
CI	CAST IRON	IE	INVERT ELEVATION
PVC	POLY VINYL CHLORIDE	FL	FLOW LINE
A	AIR VENT		
HVAC			
1/2" R	SIDEWALL SUPPLY REGISTER OR GRILLE	NECKSIZE (IN), TAG	SENSOR
1/2" R	SIDEWALL RETURN OR EXHAUST REGISTER OR GRILLE	AIRFLOW (CFM)	THERMOSTAT
1/2" R	SUPPLY AIR REGISTER	NECKSIZE (IN), TAG	HUMIDISTAT
1/2" R	SUPPLY AIR REGISTER	AIRFLOW (CFM)	CARBON DIOXIDE SENSOR
1/2" R	SUPPLY AIR REGISTER	NECKSIZE (IN), TAG	OCCUPANCY SENSOR
1/2" R	SUPPLY AIR REGISTER	AIRFLOW (CFM)	MOTORIZED CONTROL DAMPER WITH ACTUATOR
1/2" R	SUPPLY AIR, OUTSIDE AIR OR MIXED AIR DUCT END OR RISER UP/RISER DN	1/2" B	BACKDRAFT DAMPER
1/2" R	RETURN AIR, EXHAUST AIR OR RELIEF AIR DUCT END OR RISER UP/RISER DN	1/2" V	VOLUME DAMPER
1/2" R	RECTANGULAR DUCTWORK (WIDTH/DEPTH(IN) (FIRST NUMBER IS SIDE SHOWN)	1/2" F	FIRE DAMPER WITH SLEEVE AND ACCESS DOOR
1/2" R	ROUND DUCTWORK (DIAMETER(IN) (SPIRAL DUCT IN EXPOSED AREAS)	1/2" S	SMOKE DAMPER WITH SLEEVE AND ACCESS DOOR
1/2" R	TURNING VANES		

ENERGY CODE COMPLIANCE

CODE	2018 IECC	REMARKS
COMCHECK	YES	(1)
COMMISSIONING	YES	(2) (3) (4)
TAB REPORT	YES	(3) (4)

- REMARKS:
- COMCHECK COMPLIANCE REPORT CAN BE FOUND ON THIS SHEET.
 - COMMISSIONING IS REQUIRED.
 - REQUIRED DOCUMENTS (REFER TO CODE) SHALL BE PROVIDED TO THE BUILDING OWNER OR OWNER REPRESENTATIVE WITHIN 90 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.
 - SEE RESPECTIVE SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION.

MECHANICAL SPECIFICATIONS

SECTION 221010 - GENERAL REQUIREMENTS FOR PLUMBING

- A. RELATED DOCUMENTS
- Drawings and general provisions of the Contract, including General and Supplementary Conditions apply to this Section.
 - Division 22 and 23 Conditions apply to this Section.
- B. SUMMARY

- This Section includes general mechanical requirements and shall apply to all phases of the work specified indicated on the drawings or required to provide for complete installation of plumbing systems.
- Refer to Section 23100 for General Requirements for Mechanical
- Refer to Section 239500 for Basic Mechanical Materials and Methods

SECTION 220720 - PIPE INSULATION FOR PLUMBING

- A. MINERAL-FIBER INSULATION: Glass fibers bonded with a thermosetting resin. Preformed Pipe Insulation: Comply with ASTM C 547, Type I, with factory-applied, all-purpose, vapor-retarder jacket. Flame-spread rating of 25 or less, and smoke-developed rating of 50 or less. Apply insulation to pipes by securing each layer of preformed pipe insulation to pipe with wire, tape, or bands without deforming insulation materials.

- B. VAPOR RETARDER: On piping systems operating below ambient space temperature, seal joints and seams with vapor-retarder mastic. Seal penetrations in insulation at hangers, supports, anchors, and other projections with vapor-retarder mastic.

- C. See Piping Installation Schedule on sheet M3.1 for insulation application.

SECTION 221116 - WATER DISTRIBUTION PIPING

- A. DOMESTIC WATER PIPING: Above ground: hard copper tube, ASTM B 88, Type L copper, 95-5 solder-joint fittings, and lead free soldered joints.

- B. VALVES: Provide gate, ball or butterfly isolation valves close to main on each branch and riser serving plumbing fixtures or equipment, and where indicated. Provide globe, ball or butterfly valves for throttling where indicated. Provide supply stops at each plumbing fixture. Provide calibrated or automatic balancing valves as indicated.

- C. TESTING: Test water distribution piping according to authority having jurisdiction. Clean and disinfect water distribution piping. Fill water piping. Check components to determine that they are not air bound and that piping is full of water.

SECTION 221316 - DRAINAGE AND VENT PIPING

- A. ABOVEGROUND, SANITARY WASTE AND VENT PIPING: CISPI 301, ASTM A488, Hubless, cast-iron soil pipe; hubless, cast-iron, soil-pipe fittings and hubless, cast-iron, neoprene sleeve coupling with stainless steel clamps.

- B. CONDENSATE DRAIN LINES: ASTM B 88, Type L, drain-temper copper tubing with soldered joints or Schedule 40, PVC pipe with solvent-welded joints. Do not install PVC in return air plenums.

- B. UNDERGROUND, SANITARY WASTE, AND VENT PIPING: ASTM A74, Hub-and-spigot, cast-iron soil pipe, Service class: hub-and-spigot, cast-iron, soil-pipe fittings, with compression joints.

- C. PIPING INSTALLATION: Make changes in direction for drainage and vent piping using appropriate branches, bends, and long-sweep bends. Do not make change in direction of flow greater than 90 degrees. Lay buried building drain piping beginning at low point of each system. Install traps to grades and alignment indicated, with unbroken continuity of invert. Place hub ends of piping upstream. Install required gaskets according to manufacturer's written instructions.

- D. SLOPE: Install drainage and vent piping at the following minimum slopes, unless otherwise indicated:

- Sanitary Piping: 2 percent downward in direction of flow for piping 3-inch NPS and smaller; 1 percent downward in direction of flow for piping 4-inch NPS and larger.
 - Vent Piping: 1 percent down toward vertical future vent or toward vent stack.
 - Condensate Drain Lines: 1-2 percent downward in direction of flow.
- E. TESTING: Test drainage and vent piping according to procedures of authorities having jurisdiction.

SECTION 221319 - PLUMBING SPECIALTIES

- A. WATER PRESSURE REGULATORS: water regulators, rated for initial working pressure of 150 psig minimum, of size, flow rate, and inlet for 3/8" pipe outlet pressure. Install on building service piping.

- B. WALL CLEANOUTS (WCO): Cast iron body adaptable to pipe with cast bronze or brass cleanout plug; stainless steel cover, vented front screws. Install as shown and as required.

- C. CLEANOUT PLUGS (CO): Cast iron or brass threads complying with ANSI B2.1, countersunk head. Engrave heads to identify system.

- D. FLOOR CLEANOUTS (FCO): Cast iron body and frame with cleanout plug and adjustable round nickel bronze top. Provide to match floor system:

- Exposed finish type, standard mill finish.
- Exposed flush type, standard non-slip grade or abrasive finish.
- Exposed flush type, standard mill finish and carpet marker.

- E. VENT FLASHING (VFR): 24" square minimum. Non-plasticized, chlorinated, polyethylene, concealed, waterproof membrane, 0.40" thick, solvent weldable or Lead sheet, 2-1/2" thick, concealed.

- F. FLOOR DRAIN FLASHING: Non-plasticized, chlorinated, polyethylene, concealed, water-proof membrane, 0.40" thick, solvent weldable. 48" square minimum.

22400 PLUMBING FIXTURES

- A. Installation: Install handles for accessible water closets and urinals with handle mounted on wide side of compartment. Install individual stop valve in each water supply to fixture. Install water-supply stop valves in accessible locations. Install traps on fixtures having integral traps and on indirect wastes. Vent all fixtures as required by local code. Seal joints between fixtures and walls, floors, and counters using amber-type, 1-part, medium-resistant, silicone sealant. Match sealant color to fixture color. Install hot and cold water supply, waste and vent piping of sizes indicated, but not smaller than required by authorities having jurisdiction. See Plumbing Fixture Schedule on sheet M3.1 for plumbing fixture specifications.

SECTION 230100 - GENERAL REQUIREMENTS FOR MECHANICAL

- A. WARRANTIES - All materials, workmanship and equipment shall be warranted against defects or against injury from proper and usual wear for a period of one year after the date of substantial completion. Any item that becomes defective within the warranty period shall be repaired or replaced, at no additional cost to the Owner. Warranty shall include repair of faulty workmanship.

- B. DEFINITIONS ABBREVIATIONS - The following shall apply throughout the contract documents:

Furnish, Supply and deliver to site ready for installation indicated.

- Noted, scheduled or specified
- Provide, Furnish, install and connect complete and ready for final use
- ADA Americans with Disabilities Act
- ANSI American National Standards Institute
- ASME American Society of Mechanical Engineers
- ASHRAE American Society of Heating, Refrigeration and Air Conditioning Engineers
- NEC National Electric Code (NFPA 70)
- NEMA National Electrical Manufacturers Association
- NFPA National Fire Protection Association
- SMACNA Sheet Metal and Air Conditioning Contractors National Association
- UL Underwriters Laboratories Inc.

- C. CODES AND STANDARDS - All work shall be performed by competent craftsmen skilled in the trade involved and shall be done in a manner consistent with normal industry standards. All work shall conform to the currently adopted edition of the National Electric Code (NEC), Local Building Code, Local Plumbing Code, Local Mechanical Code, Local Fire Code, and all other applicable state and local codes or standards. Where there is a conflict between the code and the contract documents, the code shall have precedence only then it is more stringent than the contract documents.

- D. PERMITS - Contractor shall become familiar and comply with all requirements regarding permits, fees, licenses, etc. All permits, licenses, inspections and arrangements required for the work shall be obtained by Contractor's effort and expense. All utilities shall be installed in accordance with the local rules and regulations and all charges shall be paid by the Contractor.

- E. SUBMITTALS - Shop drawings shall be submitted to Architect/Engineer for all items of mechanical equipment including the following:

- Dampers, Registers, Grilles
- Sheet Metal Accessories
- HVAC Equipment
- Plumbing Fixtures
- Plumbing Specialties
- Plumbing Equipment
- Plumbing Piping
- HVAC Piping
- Pipe Accessories
- Pipe Insulation
- Duct Insulation
- Temperature Controls

- Shop drawings include fabrication and installation drawings, diagrams, schedules and other data specifically prepared for the project. Include dimensions and notations showing compliance with specified standards. Unless otherwise noted, submit a minimum of six (6) copies of shop drawings for review. Electronic copies (in pdf format) by e-mail are acceptable in lieu of hard copies.

- Architect/Engineer will review or take appropriate action for submittals. Review is only to determine general conformance with design shown in contract documents. Review of submittals shall not relieve contractor of responsibility for deviation from requirements of the contract documents or from errors or omissions within submittals.

- F. MATERIALS - All materials and equipment used in the construction of the project shall be new, unused and undamaged unless otherwise specified. Materials and equipment shall be of latest design standards of manufacturer specified. Verify installation details and requirements for materials and equipment furnished by others and installed under this contract.

- G. DEMONSTRATION AND TRAINING - Instruct Owner's personnel to adjust, operate, and maintain mechanical systems. Schedule training with Owner with at least seven days advance notice.

- H. STARTING AND ADJUSTING - Start and test all equipment and operating components to confirm proper operation. Test and adjust all systems to achieve designed capacity and performance. All equipment and systems discrepancies shall be corrected prior to final acceptance.

SECTION 232000 - BASIC MECHANICAL MATERIALS AND METHODS

- A. PIPING INSTALLATION: Install piping at required slope. Install components with pressure rating equal to or greater than system operating pressure. Install piping in concealed locations, except in equipment rooms and service areas. Install piping free of sags and bends. Install piping at right angles or parallel to building walls. Install piping tight to slabs, beams, joists, columns, walls, and other building elements. Locate groups of pipes parallel to each other, spaced to permit valve servicing. Install fittings for changes in direction and branch connections. Install pipe escutcheons for exposed pipe penetrations walls and ceilings. Install sleeves for pipes passing through concrete and masonry walls, and concrete floor and roof slabs. Provide electrically fitting where two different types of pipe materials are joined. Comply with MSS-68 for pipe hanger selection and application.

- B. EQUIPMENT INSTALLATION: Install equipment per manufacturer's recommendations. Install equipment as high as possible. Install equipment level and plumb, parallel and perpendicular to building. Install mechanical equipment to facilitate service, maintenance, and repair or replacement of components. Connect equipment for ease of disconnecting, with minimum interference to other installations. Install equipment giving right of way to piping installed at required slope.

C. LABELING AND IDENTIFYING

- Piping: Provide pipe markers on each system where pipe is exposed to view and above removable ceilings. Include pipe description of system and arrows showing normal direction of flow.

- Equipment: Install engraved plastic-laminated sign or equipment marker on or near each major item of mechanical equipment.

- D. CUTTING AND PATCHING: Cut, channel, chase, and drill floors, walls, partitions, ceilings, and other surfaces necessary for mechanical installations. Perform cutting by skilled mechanics of trades involved. Repair cut surfaces to match adjacent surfaces.

SECTION 230200 - TESTING, ADJUSTING, AND BALANCING

- A. Examine air-handling equipment to ensure clean filters have been installed, bearings are greased, belts are aligned and tight, and equipment with functioning controls is ready for operation. Check dampers for proper position.

- B. Perform testing and balancing procedures on each system according to the procedures contained in NEBB's "Procedural Standards for Testing, Adjusting, and Balancing of Environmental Systems" and this Section.

- C. Adjust fans to deliver total design airflow within the maximum allowable rpm listed by the fan manufacturer. Provide new fan shaves as required. Measure fan airflow, static pressure, rpm and amp draw.

- D. Adjust volume dampers to achieve design airflow within 10% of specified values. Adjust diffusers, registers and grilles. Adjust minimum and maximum outside airflow.

- E. Prepare report listing date, project information, equipment data and measured airflow results. Report shall include drawing indicating locations of air outlets and final measured airflow of each outlet. Submit four copies of report to engineer for review.

SECTION 230700 - DUCT INSULATION

- A. MINERAL-FIBER BLANKET THERMAL INSULATION: Glass fibers bonded with a thermosetting resin. Comply with ASTM E 553, Type II, with all-service jacket manufactured from kraft paper, reinforcing scrim, aluminum foil, and foil film. Flame-spread rating of 25 or less, and smoke-developed rating of 50 or less. Apply insulation materials, accessories, and finishes according to the manufacturer's written instructions with the number of joints practical. Seal joints and seams with vapor-retarder mastic on cold air ducts. Seal penetrations in insulation at hangers, supports, anchors, and other projections with vapor-retarder mastic.

- B. ACOUSTICAL DUCT LINER: ASTM C 518 with resin and black mat coated surface exposed to air stream to prevent erosion of glass fibers. Thermal Conductivity (k-Value): 0.26 at 75 deg F main temperature. Nominal Density: 1.5 lbs per cubic foot; minimum noise reduction characteristic shall be 0.55 for 1" thickness, rated for 6000 fpm air velocity; air friction multiplier less than 1.6 at 2000 fpm. Adhere a duct liner with 100 percent coverage of adhesive. But traverse joints without gaps and seal joints with adhesive. Secure liner with mechanical fasteners. Apply metal roofing on leading edge of liner.

- C. See Ductwork Insulation Schedule on sheet M3.1 for insulation application.

SECTION 231123 - NATURAL GAS PIPING

- A. STEEL PIPE: Pipe: ASTM A 53, Type E or S, Grade B, Schedule 40; black, malleable-iron, Threaded Fittings ASME B16.3, Class 150, standard pattern, with threaded ends according to ASME B1.20.1. Unions: ASME B16.39, Class 150, malleable iron with brass-to-iron seat, ground joint, and threaded ends according to ASME B1.20.1. Joint Compound and Tape: Suitable for natural gas.
- B. Install and test gas piping according to NFPA 54 "National Fuel Gas Code" and Authority having jurisdiction.

SECTION 233113 - METAL DUCTS AND ACCESSORIES

- A. GENERAL: Drawings indicate general arrangement of ducts, fittings, and accessories. Minor modifications to route, size and shape of duct may be made to meet structural and other interference. Changes which could affect system performance shall be reviewed by Architect/Engineer prior to fabrication or installation of duct. Coordinate layout with suspended ceiling, fire- and smoke-control dampers, lighting layouts, and similar finished work.

- B. DUCT FABRICATION: Sizes shown on plans are inside clear dimensions. Ductwork utilizing duct liner shall be increased in size to accommodate the duct liner thickness.

- C. MATERIAL: Construct all rectangular and round ducts from galvanized steel. Lock-forming quality; ASTM A 653A 653M, G90 coating designation, mill-phosphatized finish for surfaces of ducts exposed to view.

- D. QUALITY ASSURANCE: Fabricate and install duct per SMACNA "HVAC Duct Construction Standards—Metal and Flexible" and applicable codes. Comply with requirements for metal thickness, reinforcing types and intervals, and joint types and intervals. Comply with NFPA 90A "Installation of Air Conditioning and Ventilating Systems", unless otherwise indicated.

- E. PRESSURE CLASS: Unless otherwise noted construct all ducts to 2.0" WG positive or 2.0" WG negative pressure class.

- F. DUCT SEALING: UL classified, non-combustible, flame spread 25 or less, smoke developed rating of 540 or less, resistant to water, pressure rupture rating of 18" WG minimum, suitable for use alone or with tape, application an operational temperature ranges appropriate for usage. Seal all duct per SMACNA class C duct seal requirements.

- G. TURNING VANES: Fabricate of 1-1/2" wide, curved blades 3/4" on center. Provide turning vanes in all in-vent elbows and duct turns.

- H. DUCT ACCESS DOORS: Install insulated duct access doors with hinges and latches for access to inlet side of coils, equipment, control dampers, fire dampers, and smoke dampers.

- I. VOLUME DAMPERS: Fabricate single blade dampers for duct sizes 9 1/4" high x 30" width maximum. Fabricate multi-blade dampers of opposed blade pattern using minimum 10 gauge steel with maximum blade size 6" x 48" for larger ducts. Provide end bearings with end seals for pressure class required except in round duct 12" in diameter and smaller. Provide locking indicating quadrant regulators on all volume dampers. Mark ends of damper trunks for open/closed indication. Insulated ducts to have elevated dial indicators. Motorized dampers to have 115-volt operators. Provide manual volume dampers at branch take-offs and as shown. Provide motorized dampers as indicated.

- J. FLEXIBLE CONNECTORS: Flame-retarded or noncombustible fabrics, coatings, and adhesives complying with UL 181, Class 1. Neoprene double-coated woven glass fiber fabric in accordance with NFPA 90A, suitable for temperatures and pressures of application, approximately 6" wide, crimped into metal edge strip. Provide flexible connectors to motor driven equipment.

- K. FLEXIBLE DUCTS: Factory-fabricated, insulated, round duct, with an outer jacket enclosing 1-1/2-inch-thick, glass-fiber insulation around a continuous inner liner, steel-wire helix encapsulated in polyethylene inner liner. Comply with UL 181, Class 1. Final connections to air outlets and terminal units may be made with flexible duct. Install flexible ducts with metal collars or sleeves with draw bands. Length of flexible duct shall not exceed 30' path shall not exceed 45'.

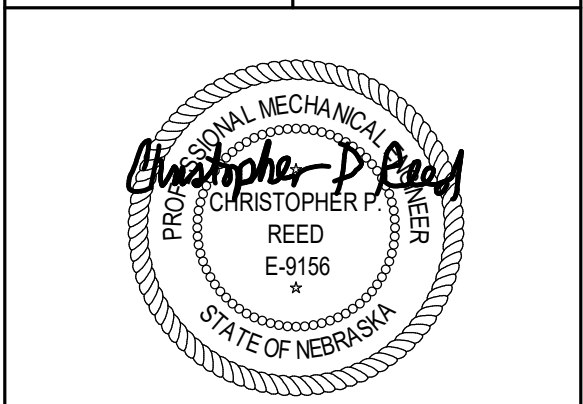
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1111 West 16th Street
Omaha, NE 68102
Phone: 402.464.4444
www.morrisseyengineering.com

DATE	REVISION	MARK

MECHANICAL SPECIFICATIONS
WESTGATE PLAZA ACE HARDWARE



agency approval
date: 06/25/2024
project number: 24069
approved by: CPR
designed by: CJB
sheet number:

M4.1

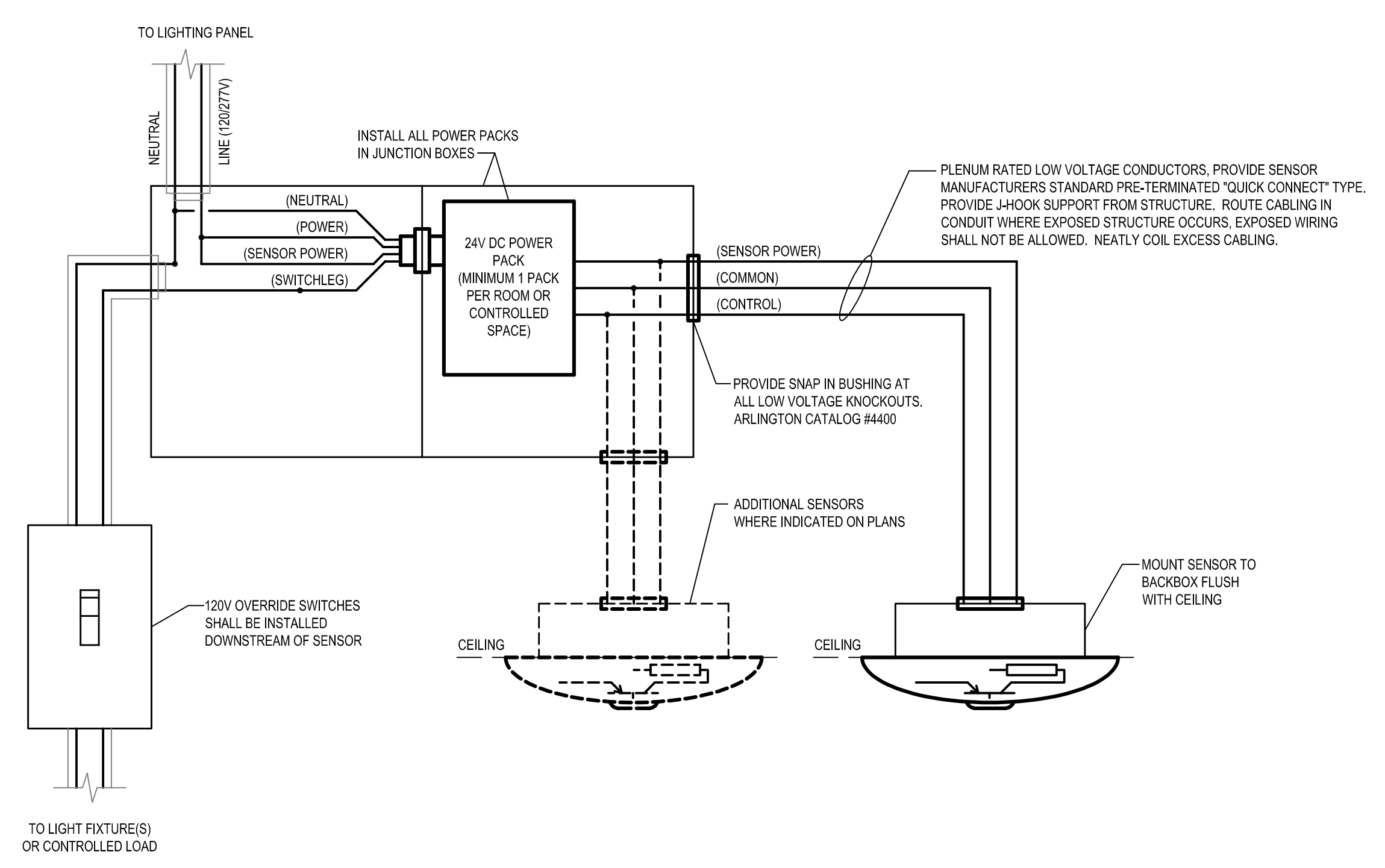
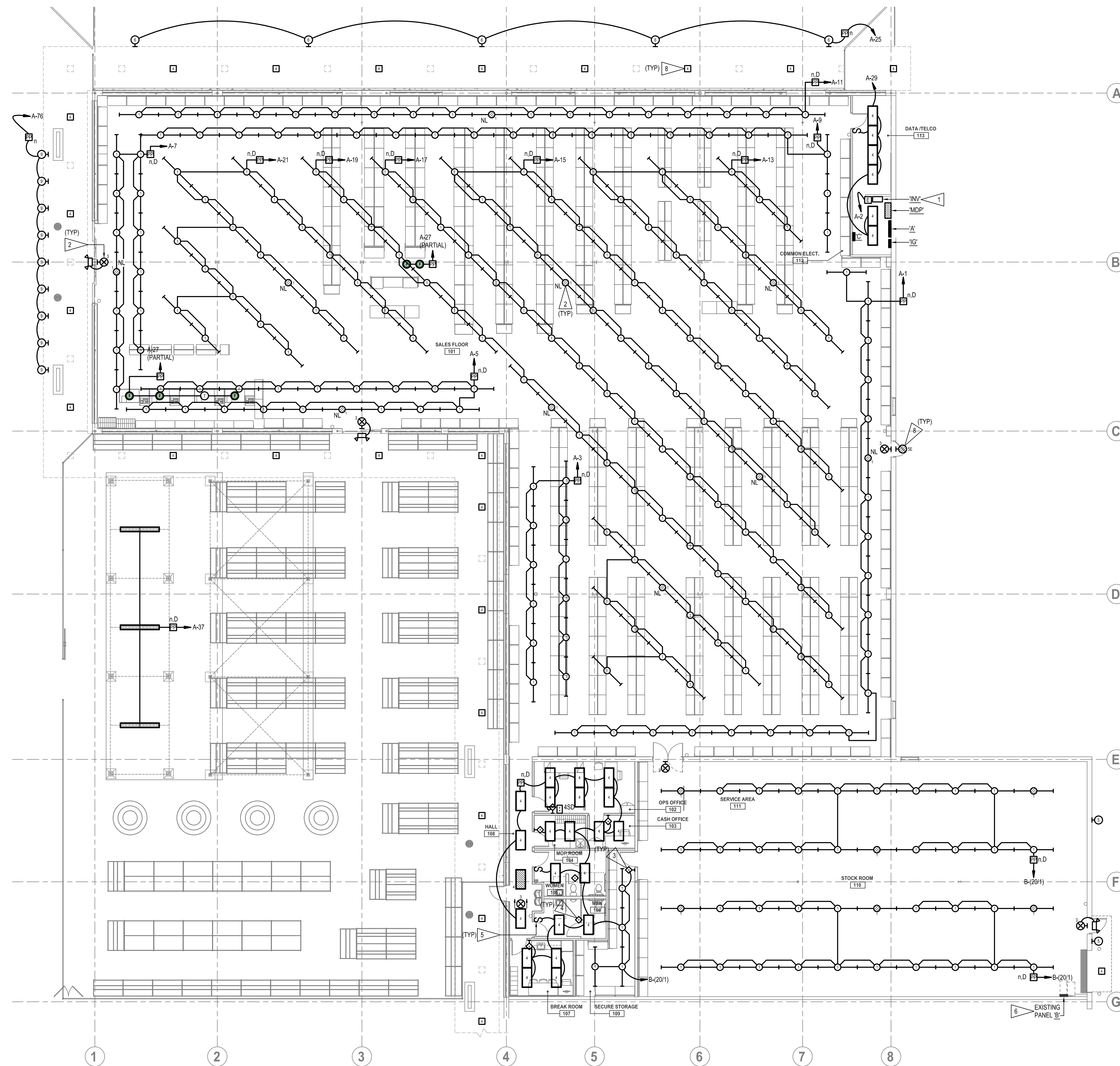
Consultants

morrissey engineering inc
 mechanical | electrical | lighting | technology | consulting
 490 North 18th Street
 Omaha, NE 68104
 P: 402.491.4344
 www.morrisseyengineering.com

MEINCY 24069

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note:
 do not scale drawings. verify all dimensions and distances from architectural, structural, shop and other appropriate drawings or site. lay out and coordinate all work prior to installation to provide clearances required for operation, maintenance, and codes and verify non-interference with other work. do not fabricate prior to verification of clearance for all trades.



2 E1-1 TYPICAL CEILING OCCUPANCY SENSOR CONNECTION DETAIL
 NOT TO SCALE

1 E1-1 FLOOR PLAN - LIGHTING
 3/22' x 1'-0"

FIXT #	MANUFACTURER	CATALOG NO. (NOTE 2)	LAMP DATA			MOUNTING			DESCRIPTION	REMARKS
			QTY.	SIZE	TYPE (NOTE 3)	HS	CS	HEIGHT		
1	LITHONIA, NOTE 1	T2L1N L80 1000LM FST MVOLT 40K 80CRI WH	N/A	10,000 LM / 4000K	LED	120/277	X	X	8FT STRIP LIGHT	
2	LITHONIA, NOTE 1	Z1N L48 5000LM FST MVOLT 40K 80CRI WH	N/A	5,000 LM / 4000K	LED	120/277	X	X	4FT STRIP LIGHT	
3	LITHONIA, NOTE 1	LHOM LED R HO RO	N/A	N/A	LED	120/277	X	X	EXIT LIGHT	NOTE 4
3	LITHONIA, NOTE 1	2GT1.4 48L E21 LPR40	N/A	4,800 LM / 4000K	LED	120/277	X	X	2X4 TROFFER	
4	CREE	CPY250 C 13L 50K7 0 UL DM WH	N/A	13,750 LM / 5000K	LED	120/277	X	X	CANOPY LIGHT	
5	LITHONIA, NOTE 1	WST LED P3 40K 1W MVOLT E20W/C	N/A	6,000 LM / 4000K	LED	120/277	X	X	WALL PACK	W/EM BATTERY
5E	LITHONIA, NOTE 1	WST LED P3 40K 1W MVOLT E20W/C	N/A	6,000 LM / 4000K	LED	120/277	X	X	WALL PACK	W/EM BATTERY
6	LITHONIA, NOTE 1	WDGE3 LED P3 50K 70CRI RFT MVOLT	N/A	10,000 LM / 4000K	LED	120/277	X	X	WALL PACK	
7	LSI ABOLITE	RD200 INC 120 MSV CA120BK	1	NOTE 5	LED	120/277	X	X	PENDANT	
8	WILLIAMS, NOTE 1	86-8-160850-4HFR-DIM-INV	N/A	16,000 LM / 5000K	LED	120/277	X	X	8FT GASKETED	
9	BASELITE	A81241-E12-100W	1	NOTE 6	LED	120/277	X	X	SIGN LIGHT	

- NOTES:**
- FIXTURE SHALL BE CONSIDERED EQUAL AS MANUFACTURED BY COLUMBIA, DAY-BRITE, COOPER, AND H.E. WILLIAMS.
 - CONTRACTOR SHALL VERIFY LIGHT FIXTURE CATALOG NUMBER & INSTALLATION REQUIREMENTS PRIOR TO ORDERING.
 - LAMP TYPE DESCRIPTION: LED=LIGHT EMITTING DIODE
 - WHERE INDICATED ON PLAN PROVIDE REMOTE HEAD - LITHONIA RELA B T SD OVP L0309.
 - PROVIDE WITH LED RETROFIT LAMP - 4000K - 100W EQUIVALENT.
 - PROVIDE WITH LED RETROFIT LAMP - SATCO #539750.

LIGHTING CONTROL DEVICE SCHEDULE			
SYMBOL	MANUFACTURER	CATALOG NUMBER	DESCRIPTION
[Symbol]	SENSORSWITCH	nECY MVOLT ENC 12MO	LIGHTING CONTROL NETWORK HEAD END WITH TIME CLOCK
[Symbol]	SENSORSWITCH	nPDM 4S DX	FOUR SCENE LIGHTING CONTROL NETWORK ENTRY STATION WITH ON / OFF PUSH BUTTONS AND RAISE / LOWER DIMMING CONTROLS
[Symbol]	SENSORSWITCH	nPP16	LIGHTING CONTROL NETWORK POWER PACK - NO DIMMING
[Symbol]	SENSORSWITCH	nPP16 ER	LIGHTING CONTROL NETWORK POWER PACK - NO DIMMING, WITH UL924 EMERGENCY OPERATION
[Symbol]	SENSORSWITCH	nPP16 DS	LIGHTING CONTROL NETWORK POWER PACK - WITH DIMMING
[Symbol]	SENSORSWITCH	nPP16 DS ER	LIGHTING CONTROL NETWORK POWER PACK - WITH DIMMING, WITH UL924 EMERGENCY OPERATION
[Symbol]	SENSORSWITCH	WSX PDT XX	LINE VOLTAGE SINGLE POLE WALL BOX OCCUPANCY SENSOR
[Symbol]	SENSORSWITCH	CM PDT 10	LOW VOLTAGE CEILING SENSOR, STAND ALONE TYPE.

- NOTES:**
- PRODUCTS LISTED INDICATE BASIS OF DESIGN PRODUCTS. REFER TO SPECIFICATIONS FOR ACCEPTABLE EQUIVALENT MANUFACTURERS.
 - COORDINATE DIMMING TYPE REQUIRED WITH ASSOCIATED LIGHT FIXTURE TYPE CONTROLLED.

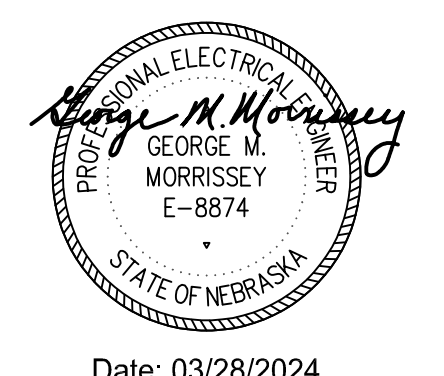
- GENERAL NOTES**
- MINIMUM SIZE FOR BRANCH CIRCUIT CONDUITS SHALL BE 1/2" MINIMUM DATA/COMMUNICATIONS CONDUIT SIZE SHALL BE 1" - SEE DRAWINGS FOR AREAS WHERE LARGER CONDUITS ARE REQUIRED.
 - AT CONTRACTOR'S OPTION, THE USE OF MULTI-WIRE BRANCH CIRCUITS IS ALLOWED. PROVIDE MEANS TO SIMULTANEOUSLY DISCONNECT ALL CIRCUIT BREAKERS SHARING A COMMON NEUTRAL.
 - PROVIDE A GREEN INSULATED GROUND WIRE IN ALL LIGHTING AND POWER BRANCH CIRCUITS.
 - COORDINATE ROUTING OF EXPOSED CONDUIT WITH OWNER AND GENERAL CONTRACTOR PRIOR TO ROUGH IN. MOUNT EXPOSED CONDUIT TIGHT AND PARALLEL TO STRUCTURE.
 - TAKE CARE TO ENSURE THAT ALL ELECTRICAL AND MECHANICAL DEVICES LOCATED WITHIN SAME VICINITY OF EACH OTHER ARE ALIGNED BOTH VERTICALLY AND HORIZONTALLY. SEE DETAIL [Symbol] FOR ADDITIONAL INFORMATION.

ENERGY CODE COMPLIANCE		
CODE	2018 IECC	
ComCheck	YES	
COMMISSIONING	YES	NOTE 1

- NOTES:**
- REQUIRED DOCUMENTS (REFER TO CODE) SHALL BE PROVIDED TO THE BUILDING OWNER OR OWNER REPRESENTATIVE WITHIN 90 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.

- FLAG NOTES**
- PROVIDE NEW CENTRAL INVERTER - EVENITE ALU 1000VA LC 1A 0A C5 FS WM OR EQUAL.
 - CONNECT EXIT LIGHTING AND LIGHTING INDICATED WITH CROSS HATCHING TO ONE OF FIVE DEDICATED OUTPUT BREAKERS IN NEW CENTRAL INVERTER.
 BREAKER #1 - SALES FLOOR EMERGENCY LIGHTING
 BREAKER #2 - STOCK ROOM EMERGENCY LIGHTING
 BREAKER #3 - HALL EMERGENCY LIGHTING
 BREAKER #4 - EXIT LIGHTING
 BREAKER #5 - SPARE
 - PROVIDE ONE [Symbol] FOR EACH OF THREE EMERGENCY LIGHTING CIRCUITS ALLOWING THE LIGHTING TO BE CONTROLLED IN A SIMILAR FASHION AS SURROUNDING LIGHTING UNTIL A POWER OUTAGE. THEN THE LIGHTING IN THESE CIRCUITS WILL TURN TO 100% ON.
 - PROVIDE NEW CEILING MOUNTED OCCUPANCY SENSOR - SEE LIGHTING CONTROL DEVICE SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 ROUTE CIRCUIT THROUGH NEW POWER PACK WITH AUXILIARY RELAYS. CONTROLLED BY NEW OCCUPANCY SENSOR(S). PROVIDE AUXILIARY POWER PACKS AS REQUIRED. SEE DETAIL [Symbol] FOR ADDITIONAL INFORMATION.
 - CONNECT SWITCH DOWNSTREAM OF OCCUPANCY SENSORS. SWITCH SHALL SERVE AS MANUAL SHUTOFF ONLY.
 - EXISTING PANEL BOARD SERVING AREA OF REMODEL. REUSE EXISTING CIRCUITS WHERE POSSIBLE. PROVIDE NEW BREAKERS AS REQUIRED TO ACCOMMODATE REMODEL. PROVIDE AN UPDATED TYPED CIRCUIT DIRECTORY AFTER REMODEL IS COMPLETE.
 - CONNECT TO EXISTING (201) BREAKER IN PANEL INDICATED THAT BECOMES SPARE DURING DEMOLITION OR EXISTING SPARE (201) BREAKER IN PANEL SERVING AREA OF REMODEL.
 - REMOVE EXISTING LIGHT FIXTURE AND REPLACE WITH NEW FIXTURE INDICATED (WHERE APPLICABLE). CONNECT NEW FIXTURE TO EXISTING BRANCH CIRCUIT SERVING EXISTING LIGHT FIXTURE REMOVED.

Certification



Date: 03/28/2024
 I, Alan J. Plutowski, am the Coordinating Professional on this Westgate Retail - ACE Hardware project.

Project Information
WESTGATE PLAZA
ACE HARDWARE

S. 84TH STREET
 OMAHA, NE 68124

Revisions

NO.	DATE	REVISIONS
1	05/30/24	TENANT REVISIONS
2	07/17/24	TENANT REVISIONS

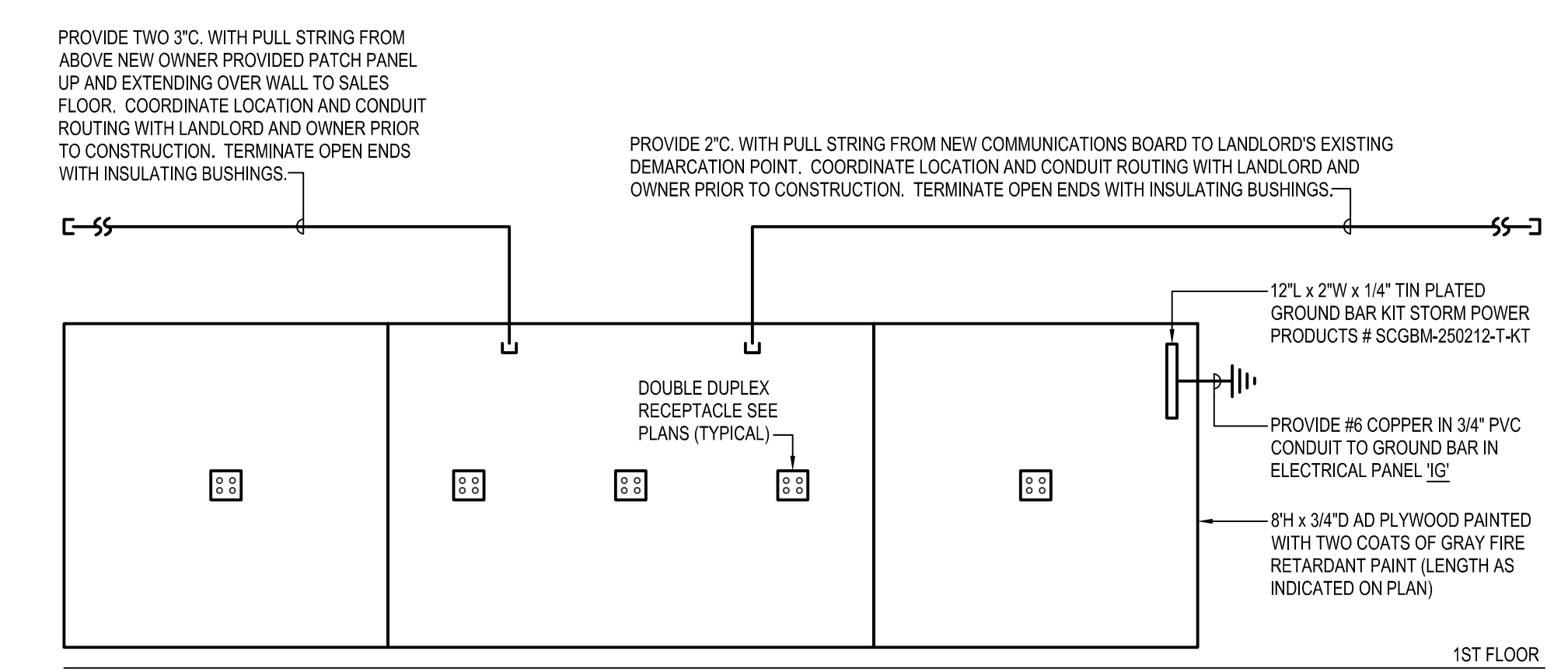
Date: 02/16/2024
 Drawn By: NWM
 Checked By: NWM
 Job Number: 00324

Sheet Information

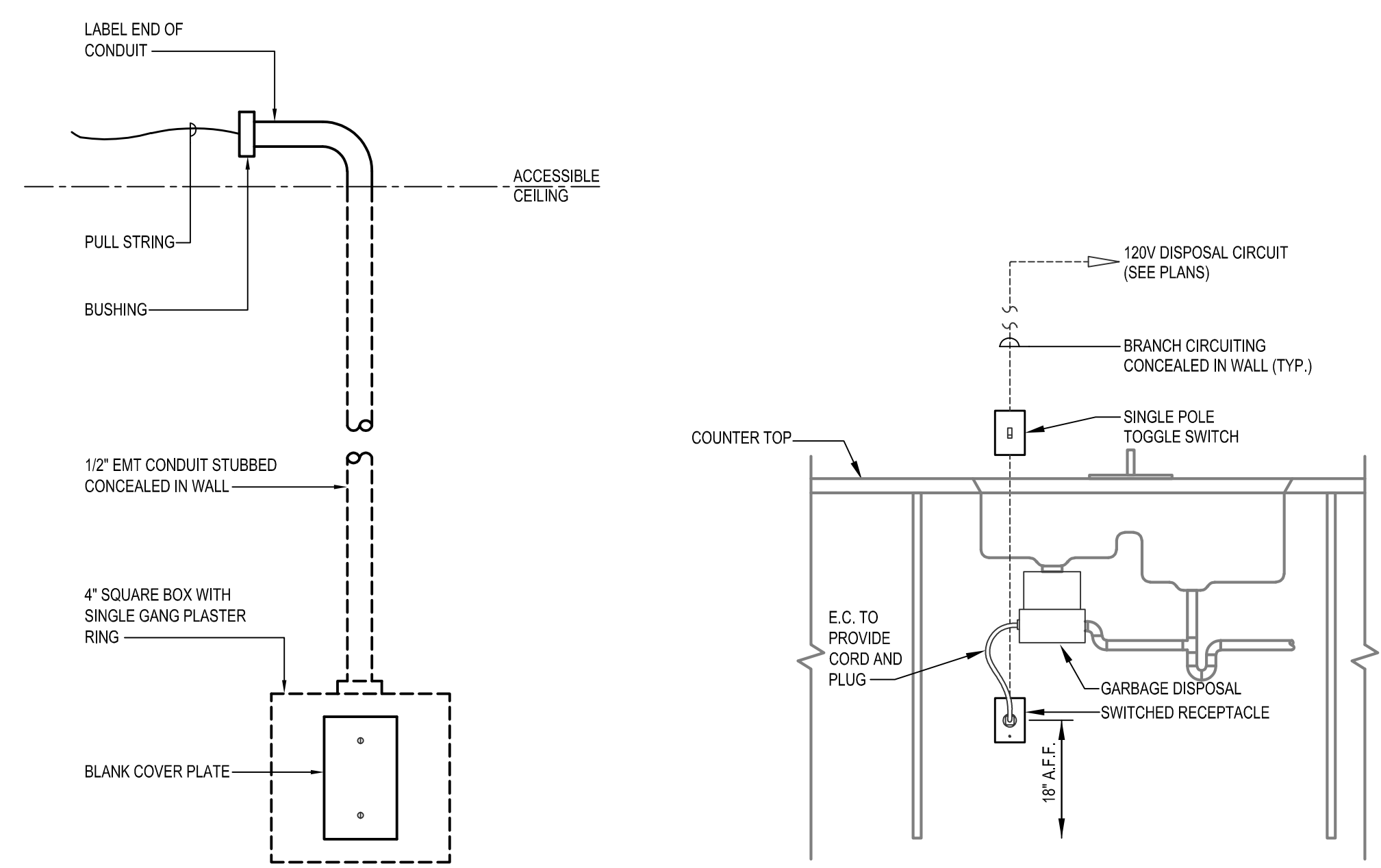
FLOOR PLAN - LIGHTING

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MECHANICAL AND PLUMBING EQUIPMENT IS NOT INDICATED ON THIS PLAN AND INFORMATION WAS NOT AVAILABLE AT THE TIME OF THIS DESIGN. PRIOR TO PURCHASING ELECTRICAL EQUIPMENT, BREAKERS, DISCONNECT SWITCHES, WIRE AND CONDUIT(S) ASSOCIATED WITH MECHANICAL AND PLUMBING EQUIPMENT, COORDINATE EXACT REQUIREMENTS WITH MECHANICAL AND PLUMBING CONTRACTORS. PROVIDE SUPPLY SIDE DUCT SMOKE DETECTORS IN EQUIPMENT WITH CFM RATING OVER 2,000. IF OTHER AIR HANDLING UNITS SHARE THE SAME AIR SYSTEM AS ANY AIR HANDLING UNIT REQUIRING A DUCT SMOKE DETECTOR THEN PROVIDE A FIRE ALARM RELAY TO SHUT DOWN ALL MECHANICAL EQUIPMENT SERVING SAME AIR SYSTEM. PROVIDE REMOTE INDICATOR / RESET STATION WHEN DUCT DETECTOR IS NOT LOCATED IN ACCESSIBLE CEILING SPACE.



4 COMMUNICATION BOARD DETAIL
 E2-1 NOT TO SCALE



3 DATA/COMM ROUGH-IN DETAIL
 E2-1 NOT TO SCALE

2 DISPOSAL CONNECTION DETAIL
 E2-1 NOT TO SCALE

1 FLOOR PLAN - POWER
 E2-1 332' x 1'-0"

GENERAL NOTES

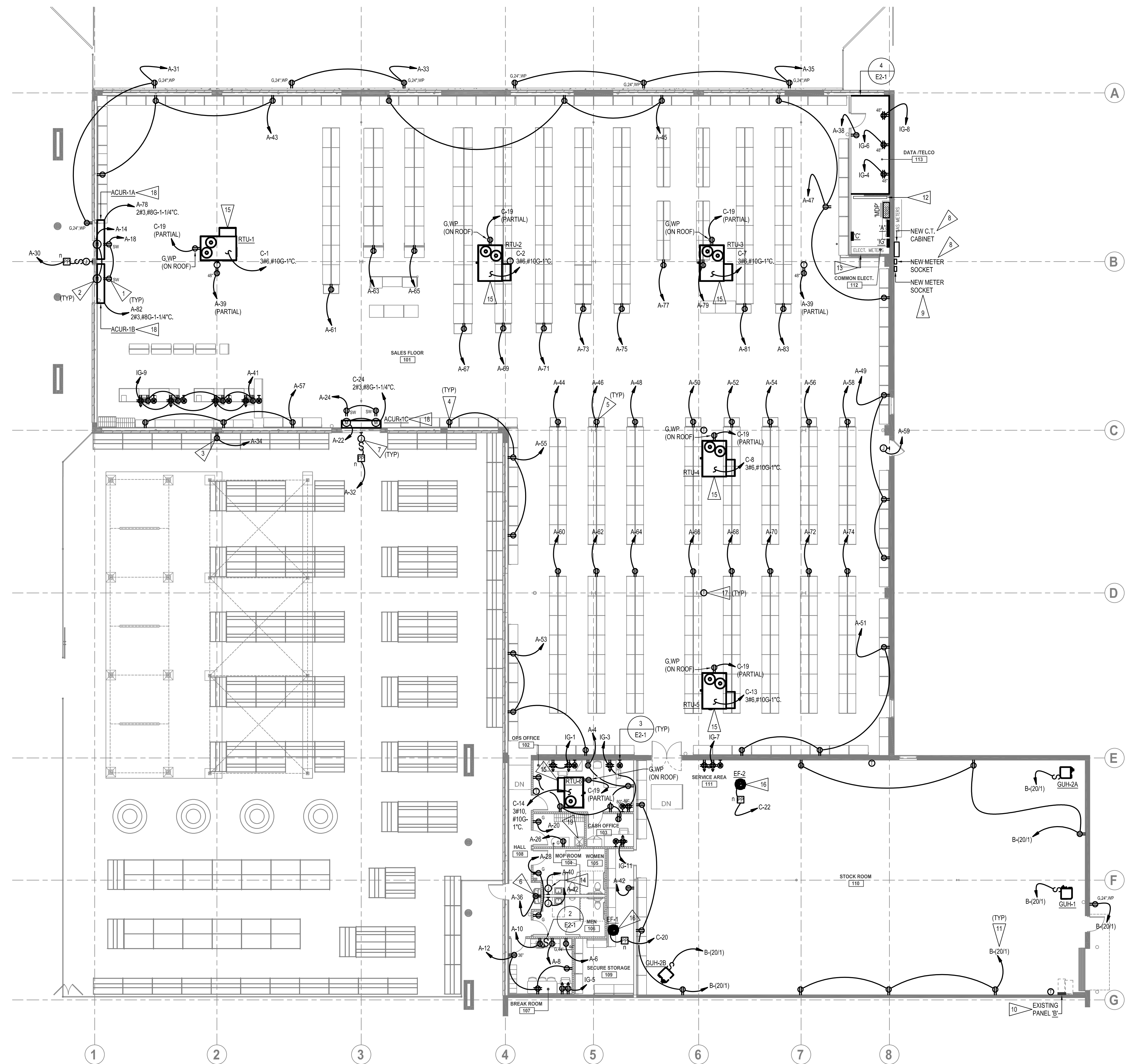
- MINIMUM SIZE FOR BRANCH CIRCUIT CONDUITS SHALL BE 1/2" MINIMUM DATA/COMMUNICATIONS CONDUIT SIZE SHALL BE 1". SEE DRAWINGS FOR AREAS WHERE LARGER CONDUITS ARE REQUIRED.
- AT CONTRACTOR'S OPTION, THE USE OF MULTI-WIRE BRANCH CIRCUITS IS ALLOWED. PROVIDE MEANS TO SIMULTANEOUSLY DISCONNECT ALL CIRCUIT BREAKERS SHARING A COMMON NEUTRAL.
- PROVIDE A GREEN INSULATED GROUND WIRE IN ALL LIGHTING AND POWER BRANCH CIRCUITS.
- COORDINATE ROUTING OF EXPOSED CONDUIT WITH OWNER AND GENERAL CONTRACTOR PRIOR TO ROUGH IN. MOUNT EXPOSED CONDUIT TIGHT AND PARALLEL TO STRUCTURE.
- TAKE CARE TO ENSURE THAT ALL ELECTRICAL AND MECHANICAL DEVICES LOCATED WITHIN SAME VICINITY OF EACH OTHER ARE ALIGNED BOTH VERTICALLY AND HORIZONTALLY. SEE DETAIL 3 FOR ADDITIONAL INFORMATION.

FLAG NOTES

- MOUNT SHOW WINDOW RECEPTABLES (DESIGNATED WITH SUBSCRIPT 'SW') ABOVE GLAZING PER NEC 210.62.
- PROVIDE FINAL CONNECTION TO AUTOMATIC ADA DOOR. INSTALL ALL COMPONENTS PROVIDED WITH DOOR OPERATOR, INCLUDING BUT NOT LIMITED TO: ACTUATORS, PUSHBUTTONS, TRANSFORMERS, ETC. PROVIDE FINAL CONNECTION BETWEEN DOOR OPERATOR AND ASSOCIATED COMPONENTS. COORDINATE REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH IN.
- PROVIDE EXPLOSION PROOF RECEPTACLE AND EMERGENCY SHUTDOWN SWITCH AT PROPANE FILING STATION. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH IN. PROVIDE ALL SWITCHES, RELAYS, ETC. REQUIRED TO ACCOMMODATE SHUTDOWN.
- VERIFY EXACT MOUNTING LOCATION AND HEIGHT OF RECEPTABLES SERVING WALL FIXTURES WITH OWNER PRIOR TO ROUGH IN. MOUNT RECEPTABLES TO FIXTURES. PROVIDE JUNCTION BOX IN WALL NEAR RECEPTACLE. CONNECT RECEPTACLE TO JUNCTION BOX WITH FLEXIBLE CONDUIT.
- VERIFY EXACT MOUNTING LOCATION AND HEIGHT OF RECEPTABLES SERVING GONDOLA FIXTURES WITH OWNER PRIOR TO ROUGH IN. SURFACE MOUNT RECEPTABLES TO TOP FIXTURES FACE UP. PROVIDE JUNCTION BOX AT CEILING NEAR RECEPTACLE. CONNECT RECEPTACLE TO JUNCTION BOX WITH CONDUIT. AT FIXTURE TURN CONDUIT WITH 90 DEGREE BEND AND STUB INTO JUNCTION BOX WITH RECEPTACLE. COORDINATE WHICH RECEPTABLES NEED TO BE INTERLOCKED INTO LIGHTING CONTROL SYSTEM AND PROVIDE NON DIMMING POWER PACK(S) WHERE REQUIRED.
- LOCATE RECEPTACLE FOR ELECTRIC WATER COOLER SO THAT CORD AND PLUG ARE CONCEALED INSIDE OR BEHIND WATER COOLER. PROVIDE 1/2" TYPE CIRCUIT BREAKER.

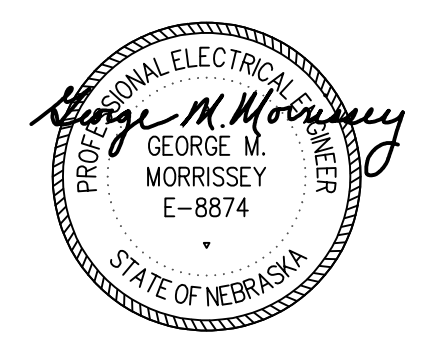
- PROVIDE FINAL CONNECTION TO OWNER FURNISHED INTERNALLY ILLUMINATED ELEVATIONS AND SIGNAGE SUPPLIER PRIOR TO ROUGH IN. PROVIDE TOGGLE SWITCH DISCONNECT CONCEALED WITHIN OR BEHIND SIGNAGE FOR POWER CONNECTIONS.
- COORDINATE LOCATION OF NEW C.T. CABINET AND METER SOCKET SERVING TENANT SPACE WITH OPDP AND ADJACENT UTILITIES PRIOR TO CONSTRUCTION.
- PROVIDE NEW METER SOCKET FOR LANDLORD'S EXISTING ELECTRICAL HOUSE SERVICE. PROVIDE MODIFICATIONS ON INTERIOR OF BUILDING AS REQUIRED TO ACCOMMODATE NEW WORK.
- EXISTING PANEL BOARD SERVING AREA OF REMODEL. REUSE EXISTING CIRCUITS WHERE POSSIBLE. PROVIDE NEW BREAKERS AS REQUIRED TO ACCOMMODATE REMODEL. PROVIDE AN UPDATED TYPED CIRCUIT DIRECTORY AFTER REMODEL IS COMPLETE.
- CONNECT TO EXISTING (201) BREAKER IN PANEL INDICATED THAT BECOMES SPARE DURING DEMOLITION OR EXISTING SPARE (201) BREAKER IN PANEL SERVING AREA OF REMODEL.
- REMOVE EXISTING METER CENTER ON THIS WALL AND ADJACENT SERVICE DISCONNECT AND TELEPHONE CABINET ON ADJACENT WALL COMPLETE. COORDINATE DEMOLITION WITH GENERAL CONTRACTOR AND OPDP PRIOR TO DEMOLITION.
- EXISTING ELECTRICAL HOUSE SERVICE. PROVIDE MODIFICATIONS AS REQUIRED TO FEED FROM NEW METER CENTER INDICATED.
- PROVIDE FINAL CONNECTION TO ELECTRIC WALL MOUNTED HAND DRYER. PROVIDE 60V, 3/4 RATED QUICK DISCONNECT FOR LOCAL DISCONNECTING MEANS WITHIN BODY OF HAND DRYER - MOLEX# 172672002 (MALE CONNECTOR) AND #172672002 (FEMALE CONNECTOR). COORDINATE EXACT LOCATION WITH ARCHITECTURAL INTERIOR ELEVATIONS PRIOR TO ROUGH IN. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH IN.

- ROOF TOP UNIT PROVIDED WITH INTEGRAL DISCONNECT. PROVIDE DUCT SMOKE DETECTOR IN RETURN AIR DUCT. CONNECT TO SHUT DOWN MECHANICAL EQUIPMENT IN EVENT OF ALARM CONDITION. PROVIDE REMOTE INDICATOR / RESET STATION WHEN DUCT DETECTOR IS NOT LOCATED IN ACCESSIBLE CEILING SPACE. PROVIDE FIRE ALARM RELAY(S) TO SHUT DOWN ALL MECHANICAL EQUIPMENT SERVING SAME AIR SYSTEM.
- EXHAUST FAN PROVIDED WITH INTEGRAL DISCONNECT. PROVIDE 120V CONNECTION TO MOTORIZED BACK DRAFT DAMPER.
- PROVIDE ROUGH IN FOR THERMOSTAT / SENSOR. PROVIDE 12V. WITH PULL STRING FROM ROUGH IN TO MECHANICAL EQUIPMENT SERVED. COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH IN.
- AIR CURTAIN PROVIDED WITH INTEGRAL DISCONNECT.
- CONNECT TO PANEL 'C' WITH 2#12 #12G-1/C. PROVIDE NEW LOCKABLE CIRCUIT BREAKER IN PANEL INDICATED TO SERVE WATER HEATER. BREAKER SHALL SERVE AS LOCAL DISCONNECTING MEANS PER NEC 422.31(B). SEE PANEL SCHEDULES FOR ADDITIONAL INFORMATION.



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 note:
 do not scale drawings. verify all dimensions and distances from architectural, structural, shop and other appropriate drawings or field notes. lay out and coordinate all work prior to installation to provide clearances required for operation, maintenance, and codes and verify non-interference with other work. do not fabricate prior to verification of clearance for all trades.

Certification



Date: 03/28/2024
 I, Alan J. Plutowski, am the Coordinating Professional on this Westgate Retail - ACE Hardware project.

Project Information
WESTGATE PLAZA
ACE HARDWARE

S. 84TH STREET
 OMAHA, NE 68124

Revisions

NO.	DATE	REVISIONS
1	05/02/24	TENANT REVISIONS
2	07/17/24	TENANT REVISIONS

Date: 02/16/2024
 Drawn By: DAM
 Checked By: NWM
 Job Number: 00324



Sheet Information

FLOOR PLAN - POWER

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E2-1

ELECTRICAL SPECIFICATIONS

SECTION 26100 - GENERAL ELECTRICAL REQUIREMENTS

A. WARRANTIES - All materials, workmanship and equipment shall be warranted against defects or against injury from proper and usual wear for a period of one year after the date of substantial completion. Any item that becomes defective within the warranty period shall be repaired or replaced, at no additional cost to the Owner. Warranty shall include repair of faulty workmanship.

B. DEFINITIONS/ABBREVIATIONS - The following shall apply throughout the contract documents:

Furnish Supply and deliver to site ready for installation

Indicated Noted, scheduled or specified

Provide Furnish, install and connect complete and ready for final use

NEC National Electrical Code (NFPA 70)

NEMA National Electrical Manufacturers Association

NFPA National Fire Protection Association

UL Underwriters Laboratories Inc.

C. CODES AND STANDARDS - All work shall be performed by competent craftsmen skilled in the trade involved and shall be done in a manner consistent with current industry standards. All work shall conform to the currently adopted edition of the National Electrical Code (NEC), Local Building Code, and all other applicable state and local codes or standards. Where there is a conflict between the code and the contract documents, the code shall have precedence only then it is more stringent than the contract documents.

D. PERMITS - Contractor shall become familiar and comply with all requirements regarding permits, fees, licenses, etc. All permits, licenses, inspections and arrangements required for the work shall be obtained by Contractor's effort and expense. All utilities shall be installed in accordance with the local rules and regulations and all charges shall be paid by the Contractor.

E. SUBMITTALS - Shop drawings shall be submitted to Architect/Engineer for the following items of electrical equipment:

Wiring devices

Enclosed switches, switches, and circuit breakers

Panelboards

Lighting fixtures

Lighting control

Fire alarm

1. Shop drawings include fabrication and installation drawings, diagrams, schedules and area data specifically prepared for the project. Include dimensions and notations showing compliance with specified standards. Unless otherwise noted, submit a PDF copy of shop drawings for review.

2. Architect/Engineer will review or take appropriate action for submittals. Review is only to determine general conformance with design shown in contract documents. Review of submittals shall not relieve Contractor of responsibility for deviation from requirements of the contract documents or from errors or omissions within submittals.

F. MATERIALS - All materials and equipment used in the construction of the project shall be new, unused and undamaged unless otherwise specified. Materials and equipment shall be of latest design standards of manufacturer specified. Verify installation details and requirements for materials and equipment furnished by others and installed under this contract.

G. DEMONSTRATION AND TRAINING - Install Owner's personnel to adjust, operate, and maintain electrical systems. Schedule training with Owner with at least seven days advance notice.

H. STARTING AND ADJUSTING - Start and test all equipment and operating components to confirm proper operation. Test and adjust all systems to achieve designed capacity and performance. All equipment and systems discrepancies shall be corrected prior to final acceptance.

I. TEMPORARY POWER AND LIGHTING - Provide temporary electric power from local utility with metering and payment of use charges.

1. Provide receptacle outlets adequate for connection of power tools and construction equipment.

2. Provide temporary lighting with local ballasting that provides adequate illumination for construction operations and traffic conditions.

SECTION 26200 - BASIC ELECTRICAL MATERIALS AND METHODS

A. QUALITY ASSURANCE - Electrical Components, Devices, and Accessories shall be listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to architect having jurisdiction, and marked for intended use.

B. COORDINATION - Coordinate chases, slots, inserts, sleeves, and openings with general construction work and arrange in building structure during progress of construction to facilitate the electrical installations that follow. Sequence, coordinate, and integrate installing electrical materials and equipment for efficient flow of the work.

C. CONDUCTORS - All conductors shall be installed in raceways. Conductors for pilot and control circuits shall be #14. All other conductors shall be #12 or larger.

1. Conductors, No. 10 AWG and Smaller: Solid or stranded copper.

2. Conductors, Larger Than No. 10 AWG: Stranded copper.

3. Insulation: Thermoplastic, rated at 75 deg C minimum.

4. Wire Connectors and Splices: Units of size, assembly rating, material, type, and class suitable for service indicated.

D. RACEWAYS - Minimum raceway size shall be 1/2". Raceway types and applications shall be as follows:

1. Electrical metallic tubing (EMT), ANSI C90.3, steel-coated steel, with set-screw or compression fittings. EMT shall be used for all other applications not listed below.

2. Liquid tight flexible metal conduit (LFMC), zinc-coated steel with sunlight-resistant and mineral-oil-resistant plastic jacket. LFMC shall be used for connections to vibrating equipment or in wet or damp locations.

3. Raceway Fittings: Specifically designed for the raceway type with which used.

E. JUNCTION AND DEVICE BOXES - Minimum box size shall be 4" square with extension or plaster ring as required. Box types and applications shall be as follows:

1. Sheet metal boxes: NEMA OS 1 galvanized steel. Sheet metal boxes shall be used for all surface mounted applications and flush mounting in gypsum or plaster walls.

2. Masonry boxes: square concrete suitable for flush mounting in masonry construction.

3. Cast metal boxes: NEMA FB 1, Type FD, cast box with gasketed cover. Cast metal boxes shall be used for exterior surface mounted applications.

F. ELECTRICAL IDENTIFICATION - All conductors shall be color coded throughout the installation. Color coding shall be as prescribed by ANSI A13.1 and NFPA 70.

1. Provide engraved-plastic labels for all disconnected switches, switchboards, panelboards, transformers, and control devices. Labels shall be melamine plastic laminate engraving stock with 3/8" engraved lettering and shall be punched or drilled for mechanical fasteners.

G. FRESHENING - Apply freshening to cable and raceway penetrations of finished floor and wall assemblies to achieve fire-resistance rating of the assembly.

H. DEMOLITION - Protect existing electrical equipment and installations indicated to remain. If damaged or disturbed in the course of the work, remove damaged portions and install new products of equal capacity, quality, and functionality.

I. CUTTING AND PATCHING - Cut, channel, chase, and drill floors, walls, partitions, ceilings, and other surfaces required to permit electrical installations. Perform cutting by skilled mechanics using tools and methods.

1. Repair and refinish disturbed finish materials and other surfaces to match adjacent undisturbed surfaces. Install new freshening where existing freshening has been disturbed. Repair and refinish materials and other surfaces by skilled mechanics of trades involved.

SECTION 26240 - PANELBOARDS

A. GENERAL - Panelboard covers shall be NEMA PB 1, type 1 zinc coated steel with manufacturer's standard enamel finish over corrosion-resistant treatment or primer coat. Each panelboard shall be furnished with a directory card indicating the load served by each branch circuit.

1. Panelboard bus material shall be hard-drawn copper, 98 percent conductivity.

2. Provide each panelboard with an equipment ground bus adequate for feeder and branch-circuit equipment ground conductors. Bus shall be bonded to bus.

3. Where future devices (spaces) are scheduled, provide mounting brackets, bus connections, and necessary apertures required for replacement of devices.

4. Each panelboard shall be fully rated to interrupt symmetrical short-circuit current available at terminals. See schedules for required interrupting current (A.I.C.).

5. Panelboards shall be mounted with top of trim 7'4" above finished floor, unless otherwise indicated.

6. Panelboards shall be mounted plumb and rigid without distortion of box. Mount suspended panelboards with fronts uniformly flush with wall finish.

7. Panelboards shall be manufactured by Cutler-Hammer, General Electric, Siemens, or Square D.

B. LIGHTING AND APPLIANCE BRANCH-CIRCUIT PANELBOARDS

1. Overcurrent Protective Devices: Broken-circuit breakers, replaceable without disturbing adjacent units.

2. Doors: Front mounted with concealed hinges; secured with flush latch with lumber lock; keyed alike.

C. DISTRIBUTION PANELBOARDS

1. Overcurrent Protective Devices: Broken-circuit breakers.

2. Doors: Front mounted secured with vaub-type latch with lumber lock; keyed alike.

D. OVERCURRENT PROTECTIVE DEVICES - Thermal-magnetic circuit breakers with inverse time-current element for low-level overloads; and instantaneous magnetic trip element for short circuits. Adjustable magnetic trip setting for circuit-breaker frame sizes 250 A and larger. Circuit breaker lugs shall be mechanical style, suitable for number, size, trip ratings, and material of conductors.

1. Each overcurrent protective device shall have an application listing appropriate for the application.

A. GENERAL - Devices shall be installed plumb and secure. Unless otherwise indicated, flush mount wiring devices with low-level overloads; and instantaneous magnetic trip element for short circuits. Adjustable magnetic trip setting for circuit-breaker frame sizes 250 A and larger. Circuit breaker lugs shall be mechanical style, suitable for number, size, trip ratings, and material of conductors.

1. Cut and remove buried raceway and wiring, indicated to be abandoned in place, 2 inches below the surface of adjacent construction. Cap raceways and patch surface to match existing finish.

2. Remove demohashed materials from Project site.

3. Existing utilities shall not be interrupted without prior written approval from the owner. All interruptions shall occur during off hours.

I. CUTTING AND PATCHING - Cut, channel, chase, and drill floors, walls, partitions, ceilings, and other surfaces required to permit electrical installations. Perform cutting by skilled mechanics using tools and methods.

1. Repair and refinish disturbed finish materials and other surfaces to match adjacent undisturbed surfaces. Install new freshening where existing freshening has been disturbed. Repair and refinish materials and other surfaces by skilled mechanics of trades involved.

SECTION 26260 - ENCLOSED SWITCHES

A. ENCLOSED SWITCHES - Enclosed switches shall be heavy-duty grade with lockable handle. Switches shall be non-flammable unless otherwise indicated and shall have dipole to accommodate fuse sizes indicated on the drawings.

1. Exterior mounted switches shall be NEMA 3R rated and shall be bolted closed.

2. Cartridge fuses shall be class dual-element time delay, Class "RK1" Business low peak. Equivalent fuses as manufactured by Gould Shuman, Miffland, or GE are acceptable.

3. Enclosed switches shall be manufactured by Cutler-Hammer, General Electric, Siemens, or Square D.

SECTION 26510 - LIGHTING

A. LUMINAIRE AND FIXTURE COMPONENTS - All metal parts and components shall be free from burrs, sharp corners, and edges. All fixtures shall be shipped pre-wired and ready for mounting.

1. Doors, frames, and other internal access mechanisms shall be smooth operating, free from light leakage under opening conditions, and arranged to permit re-wiring without saw or bolt.

B. LED LIGHT SOURCE REQUIREMENTS:

1. Rated life (L70): Minimum 50,000 hours as defined by IES LM80 and TM21.

2. Color Rendering Index (CRI): 80 CRI minimum.

3. Each luminaire type shall be binned within a three-step Macadam Ellipse to ensure color consistency among luminaires.

C. LED DRIVER REQUIREMENTS:

1. 0-10V Dimming

2. Total Harmonic Distortion Rating: Less than 20 percent.

3. Ambient Temperature Rating: -40° to +50° C.

4. Power Factor (100% output): >0.95

D. WARRANTY - Include labor allowance required for replacement on-site at no extra cost to Owner within 1-year construction warranty. Transfer remainder of the manufacturer's warranty, including ballast manufacturer's labor stipend to owner after 1-year construction warranty.

1. Drivers: 5-year replacement warranty.

2. LED system Warranty: 5-year replacement warranty.

E. FINISHES - Luminaire finishes shall be manufacturer's standard, unless otherwise indicated. Painted finishes shall be applied over corrosion-resistant treatment or primer, free of defects. Metallic finishes shall be corrosion resistant.

F. INSTALLATION - Luminaires shall be set level, plumb, and square with ceiling and walls, and secured according to manufacturer's written instructions and approved submittal materials.

1. Luminaires in or on grid-type suspended ceiling shall be supported with support clips and a minimum of four ceiling support system rods or wires for each fixture, located not more than 6 inches from fixture corners.

2. Luminaires of Sizes Less Than Ceiling Grid shall be arranged as indicated on reflected ceiling plans or center in acoustical panel, and supported independently with at least two 3/8-inch metal chains spanning and secured to ceiling tees.

SECTION 26520 - LIGHTING CONTROL

A. OCCUPANCY SENSORS - Sensor adapts or "learns" patterns of use specific to controlled space to reduce false tripping.

1. Calling Sensors: Dual technology with infrared and microwave or ultrasonic 32 kHz or 40 kHz sensors integrated into one housing. 360 degree field of view with a minimum coverage of 20 foot radius at 9 foot mounting height, with sensor centered in coverage area. Sensor shall mount light to ceiling surface and shall have a white finish. Provide associated power packs for sensor power and load switching relays. Sensor switch COM FDT 10 or equivalent by Hubbell or Wattstopper.

2. Wall Box Sensors: Passive dual technology with 180 degree adjustable field of view capable of sensing small motion 100' when mounted at 4'. Pushbutton on sensor face provides manual override of load control. Load may be manually turned on or off at any time. Mount in wall box with decorative style louver; sensor shall have gray finish with 302 stainless steel plate. Integral switch shall be mounted on sensor housing shall be rated for 800W ballast or incandescent load at 120V, 1200W ballast load at 277V, and 1/4 hp motor load at 120V. Sensor switch WSD PDT or equivalent by Hubbell or Wattstopper.

3. Adjust occupancy sensors tailored to actual use conditions of controlled space. Make adjustments before and after Owner has occupied space.

B. LIGHTING CONTROL - See plans, schedules, and details for requirements of network type lighting control.

C. WARRANTY - Manufacturer and installer agree to repair or replace devices that fail in materials or workmanship within two years from date of substantial completion.

D. MANUFACTURERS

1. Lighting control system shall be manufactured by SensorSwitch, Inc., Wattstopper, Enclosure.

ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
---	LINEWIRE
---	TERMINAL CONNECTED TO EMERGENCY CIRCUIT OR BATTERY
---	EMERGENCY CIRCUIT
S	SINGLE POLE SWITCH
---	CEILING MOUNTED ROTATION SENSOR SWITCH
---	WALL MOUNTED ROTATION SENSOR SWITCH
---	LOW VOLTAGE LIGHTING CONTROL SWITCH
---	CEILING MOUNTED LIGHT WITH DIRECTIONAL ARROW
---	WALL MOUNTED LIGHT WITH DIRECTIONAL ARROW

SYMBOL	DESCRIPTION
---	POWER
---	POWER RECEPTACLE
---	TERMINAL IDENTIFICATION
---	TERMINAL IDENTIFICATION TYPE
---	TERMINAL IDENTIFICATION

SYMBOL	DESCRIPTION
---	COMMUNICATION
---	COMMUNICATION SYSTEMS UNIT
---	COMMUNICATION SYSTEMS UNIT (NON-RELOCATED/RELOCATED)

SYMBOL	DESCRIPTION
---	GENERAL
---	DISTRIBUTION PANEL, PARTITIONED OR NOTION CONTROL CENTER
---	LOADS, REQUIREMENTS OF CONTROL PANEL, THE INDICATED PANEL
---	BRANCH CIRCUIT - EXPLODED
---	BRANCH CIRCUIT CONDUIT THROUGH CEILING OR WALL
---	BRANCH CIRCUIT CONDUIT IN FLOOR
---	INDICATE THE NUMBER OF APPROXIMATE QUANTITY OF CONDUITS
---	SPECIAL PURPOSE PANELS AS INDICATED
---	INDICATE THE TYPE OF PANEL REQUIRED - TYPICAL MOTOR CONTROL
---	WALL MOUNTED DISTRIBUTION
---	WALL MOUNTED DISTRIBUTION

Interior Lighting Compliance Certificate

Energy Code: 2018 IECC
Project Title: Westgate Plaza Ace Hardware Alteration

Designer/Contractor: Morrissey Engineering, Inc. 4940 North 118th Street, Omaha, NE 68154, 402.491.4144

A Area Category	B Floor Area (SQ FT)	C Allowed Watts /SQ FT	D Allowed Watts (B X C)	E Total Allowed Watts =
	22710	1.06	24073	
Total Allowed Watts =			24073	

Proposed Interior Lighting Power

Figure ID : Description / Lamp / Wattage Per Lamp / Ballast	A Area Category	B Lamps / Fixture	C # of Fixtures	D Fixture Watt.	E Total (C X D)

Panel (22710 sq-ft):
LED 1: 4FT STRIP LIGHT- Other: 1 219 68 14892
LED 2: 4FT STRIP LIGHT- Other: 1 8 34 272
LED 3: 2x4 TRIFLEX- Other: 1 34 38 1284

Interior Lighting PASSES

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.4 and to comply with any applicable mandatory requirements listed in the inspection report.

Project Title: Westgate Plaza Ace Hardware
Data Filename: K:\2024\24069 Ace Hardware 84th and Hasca\Calculations\24069_COMcheck.csk Report date: 03/27/24 Page: 1 of 6

Exterior Lighting Compliance Certificate

Energy Code: 2018 IECC
Project Title: Westgate Plaza Ace Hardware Alteration
Exterior Lighting Zone: 2 (Neighborhood business district (LZZ))

Designer/Contractor: Morrissey Engineering, Inc. 4940 North 118th Street, Omaha, NE 68154, 402.491.4144

A Area/Surface Category	B Quantity	C Allowed Watts /Unit	D Tradeoff Wattage	E Allowed Watts (B X C)	F Total Allowed Watts =

Free standing/attached sales canopy (400 sq ft):
LED 4: CANOPY LIGHT- Other: 1 22 82 1804
LED 5: WALL PACK- Other: 1 1 66 66

Proposed Exterior Lighting Power

Figure ID : Description / Lamp / Wattage Per Lamp / Ballast	A Area Category	B Lamps / Fixture	C # of Fixtures	D Fixture Watt.	E Total (C X D)

(a) Wattage tradeoffs are only allowed between tradeoff areas/surfaces.
(b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradeoff and tradeoff areas/surfaces.

Exterior Lighting PASSES

Compliance Statement: The proposed exterior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.4 and to comply with any applicable mandatory requirements listed in the inspection report.

Project Title: Westgate Plaza Ace Hardware
Data Filename: K:\2024\24069 Ace Hardware 84th and Hasca\Calculations\24069_COMcheck.csk Report date: 03/28/24 Page: 1 of 5

Alan J. Plutowski ARCHITECT

4125 Lakeland Ave N., Suite 200
Minneapolis, Minnesota 55422
Phone: 763-533-7171

ME LIC# 24069

4940 North 118th Street
Omaha, NE 68154
P: 402.491.4144
www.morrisseyengineering.com

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Note: do not scale drawings, verify all dimensions and distances from architectural, structural, shop and other appropriate drawings on all sites. lay out and coordinate all work prior to installation to provide clearances required for operation, maintenance, and codes and verify non-interference with other work. do not fabricate prior to verification of clearance for all trades.

Exterior Lighting Compliance Certificate

Energy Code: 2018 IECC
Project Title: Westgate Plaza Ace Hardware Alteration
Exterior Lighting Zone: 2 (Neighborhood business district (LZZ))

Designer/Contractor: Morrissey Engineering, Inc. 4940 North 118th Street, Omaha, NE 68154, 402.491.4144

A Area/Surface Category	B Quantity	C Allowed Watts /Unit	D Tradeoff Wattage	E Allowed Watts (B X C)	F Total Allowed Watts =

Free standing/attached sales canopy (400 sq ft):
LED 4: CANOPY LIGHT- Other: 1 22 82 1804
LED 5: WALL PACK- Other: 1 1 66 66

Proposed Exterior Lighting Power

Figure ID : Description / Lamp / Wattage Per Lamp / Ballast	A Area Category	B Lamps / Fixture	C # of Fixtures	D Fixture Watt.	E Total (C X D)

(a) Wattage tradeoffs are only allowed between tradeoff areas/surfaces.
(b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradeoff and tradeoff areas/surfaces.

Exterior Lighting PASSES

Compliance Statement: The proposed exterior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.4 and to comply with any applicable mandatory requirements listed in the inspection report.

Project Title: Westgate Plaza Ace Hardware
Data Filename: K:\2024\24069 Ace Hardware 84th and Hasca\Calculations\24069_COMcheck.csk Report date: 03/28/24 Page: 1 of 5

Certification

Date: 03/28/2024

I, Alan J. Plutowski, am the Coordinating Professional on this Westgate Retail - ACE Hardware project.

Project Information

WESTGATE PLAZA ACE HARDWARE

S. 84TH STREET
OMAHA, NE 68124

Revisions

NO.	DATE	REVISIONS
1	05/30/24	TENANT REVISIONS
2	07/17/24	TENANT REVISIONS

Date: 02/16/2024
Drawn By: NWM
Checked By: NWM
Job Number: 00324

Sheet Information

ELECTRICAL SCHEDULES, DETAILS AND SPECIFICATIONS

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E3-1

DESIGNATION	CIRCUIT NUMBER	NAME/PLATE DESIGNATION	ACTIVE	SPARE	FUSE	SPACE	REMARKS
MPD	1	PANEL 'A'	4003				
	2	PANEL 'C'	4003				
	3	PANEL 'G'	1003				
	4	EXISTING PANEL		2003			
	5	SPACE				200A	
	6	SPARE	1003				
	7	SPARE	1003				
	8	SPARE	1003				

LIGHTING PANEL SCHEDULE		VOLTAGE: 208/120V		
LIGHTING PANEL RATING:	400A	PHASE:	3	
MOUNTING TYPE:	SURFACE	WIRE:	4	
	MLO W/IFED THRU LUGS AND GND. BAR	A.I.C. RATING:	SERIES	
DESCRIPTION	Q/C	Q/KT	Q/C	DESCRIPTION
LTG - SALES FLOOR	2011	11 2	201 (L)	LIGHTING CONTROL NETWORK
LTG - SALES FLOOR	2011	3 4	201 (L)	REC - OPS OFFICE
LTG - SALES FLOOR	2011	5 8	201 (G)	REC - REFRIGERATOR
LTG - SALES FLOOR	2011	7 8	201 (L)	REC - BREAK ROOM
LTG - SALES FLOOR	2011	9 10	201 (G)	REC - SALES FLOOR
LTG - SALES FLOOR	2011	1		