VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

TRIA'S PROJECT NUMBER: 24-002

GENERAL BUILDING CODE REQUIREMENTS

BUILDING CODES REFERENCED:
2021 INTERNATIONAL BUILDING CODE & APPENDIX K
CURRENT ILLINOIS ENERGY CONSERVATION CODE/ ILLINOIS ADMINISTRATIVE CODE TITLE 71 PART 600
2021 INTERNATIONAL EXISTING BUILDING CODE
2021 INTERNATIONAL FIRE CODE
2021 INTERNATIONAL FUEL GAS CODE
2021 INTERNATIONAL MECHANICAL CODE
2021 INTERNATIONAL PROPERTY MAINTENANCE CODE
2020 NATIONAL ELECTRICAL CODE NFPA 70
CURRENT STATE OF ILLINOIS PLUMBING CODE
CURRENT ILLINOIS ACCESSIBILITY CODE/ ILLINOIS ADMINISTRATIVE CODE TITLE 71 PART 400
ILLINOIS FOOD SEVICE SANITATION CODE/ ADMINISTRATIVE CODE TITLE 77 PART 750

OCCUPANCY CLASSIFICATIONS:
BUSINESS GROUP B

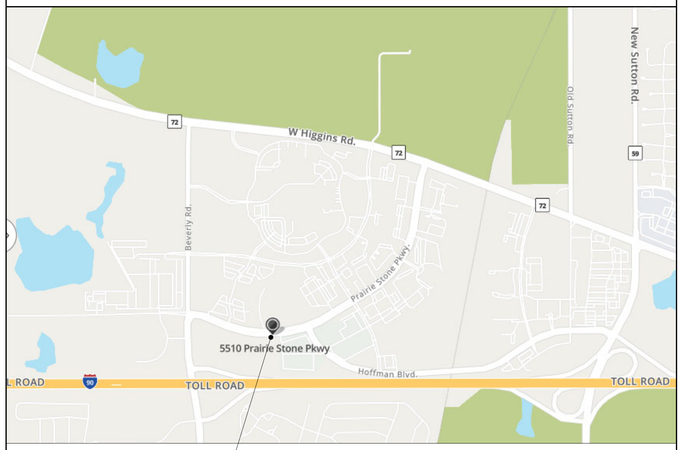
TYPE OF CONSTRUCTION:
II-B

DESIGN FIRM REGISTRATION:
TRIA ARCHITECTURE, INC.
ILLINOIS DEPARTMENT OF PROFESSIONAL REGULATIONS: #184-004118

VILLAGE BOARD

MAYOR	WILLIAM D. MCLEOD
TRUSTEE	KAREN V. MILLS
TRUSTEE	ANNA NEWELL
TRUSTEE	GARY J. PILAFAS
TRUSTEE	GARY G. STANTON
TRUSTEE	KAREN J. ARNET
TRUSTEE	PATRICK KINNANE

SITE LOCATION MAP



VILLAGE GREEN CONSESSIONS
5510 PRAIRIE STONE PARKWAY
HOFFMAN ESTATES, ILLINOIS 60192

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Burr Ridge, Illinois 60527
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Chesterton, Indiana 46304
Company Main: 630.455.4500 Fax: 630.455.4040
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30S Wacker Drive, 22ND Floor
Chicago, Illinois 60606
Phone: 800.728.7805

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JSD PROFESSIONAL SERVICES, INC.
1400 e. Touhy Avenue, Suite 215
Des Plaines, Illinois 60018
Phone: 312.644.3379

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1488 Bond Street Suit 100
Naperville, Illinois 60563-6503
Phone: 630.357.0540

KITCHEN CONSULTANT:
EDGE ASSOCIATES INC.
106W. Wilson Street, Suite 21
Batavia, Illinois 60510
Phone: 855.962.4422

ISSUE FOR BID AND PERMIT:
09/05/2024

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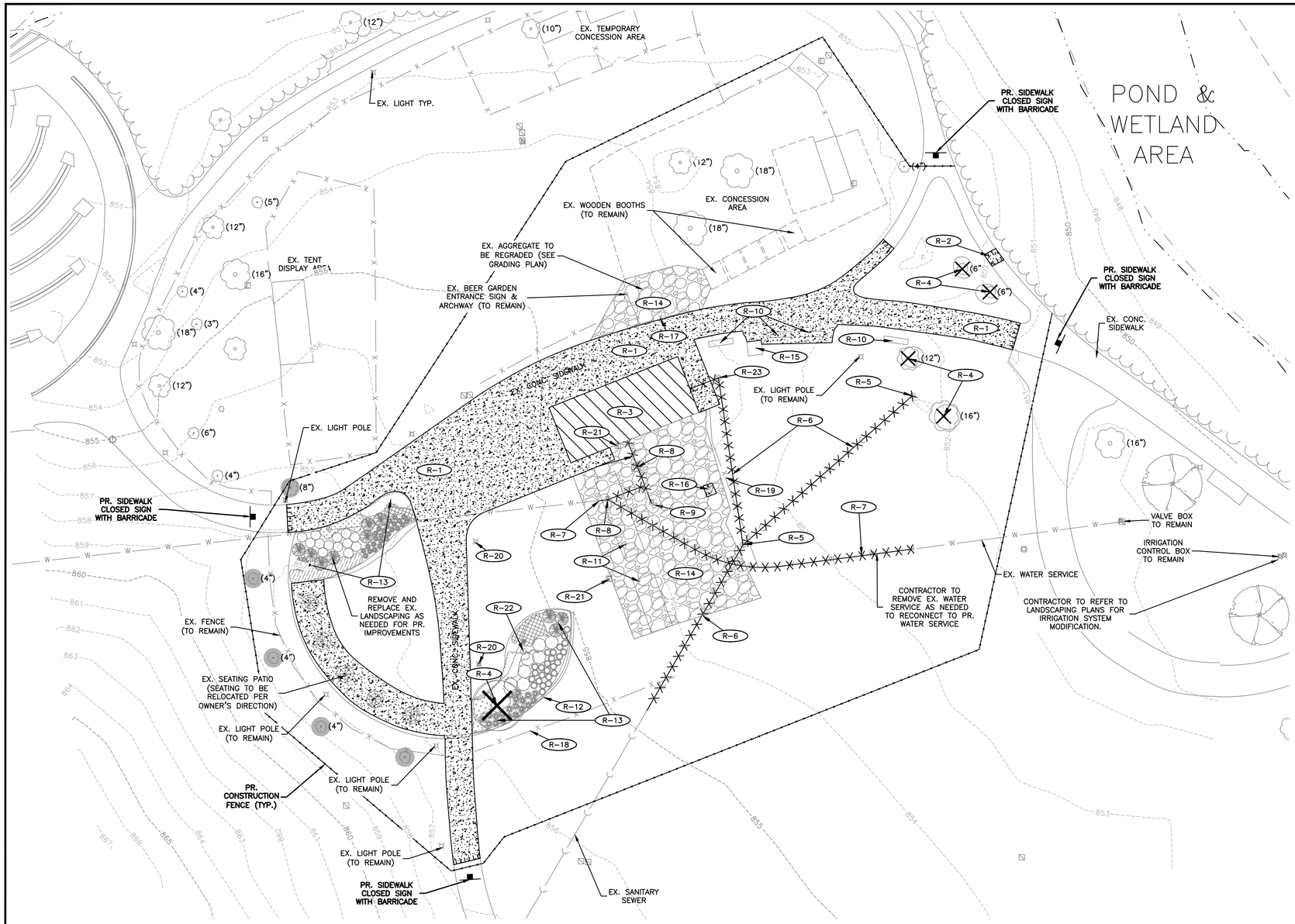
TRIA ARCHITECTURE

REVISION	DATE

T1.00



1 SITE DEMOLITION PLAN
1"=20'-0"

0 10 20 40 60

NOTES:

- LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY GOVERNING AUTHORITIES, IN ADDITION TO, NO LAND CLEARING OR GRADING SHALL BEGIN UNTIL ALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED. INCLUDING STORM WATER POLLUTION PREVENTION PLAN PER THE DEVELOPMENT CRITERIA. (SEE SHEETS C3.00–C3.02 FOR EROSION CONTROL MEASURES)
- CONTOURS AND SPOT GRADES SHOWN ARE FINISH GRADE ELEVATIONS. (SEE SHEETS C2.00–C2.00 FOR SITE GRADING)
- ALL EXISTING UTILITIES AND STORM SEWER TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
- ALL STRUCTURES & DEBRIS SHALL BE REMOVED PRIOR TO CONSTRUCTION & DISPOSED OF OFFSITE.
- ANY EXISTING FIELD DRAIN TILES ENCOUNTERED SHALL BE REPAIRED, RECONNECTED OR CONNECTED TO THE NEAREST FIELD TILE.
- LAYDOWN/STAGING LOCATION TO BE DETERMINED BY CONTRACTOR AND OWNER.
- STOCKPILE LOCATION TO BE DETERMINED BY CONTRACTOR AND OWNER.
- LOCATION OF CONSTRUCTION FENCING SHOWN IS APPROXIMATE. CONTRACTOR TO COORDINATE EXACT LOCATION OF CONSTRUCTION FENCING WITH OWNER IN THE FIELD. CONTRACTOR SHALL ADJUST THE FENCE AS NEEDED TO PROVIDE A WORK AREA AS INDICATED WHILE ALLOWING THE ADJACENT AREAS TO REMAIN OPEN THROUGHOUT CONSTRUCTION.
- THE CONSTRUCTION SITE SHALL BE SECURED WHENEVER CONTRACTOR IS NOT ON SITE.
- SEE DEMOLITIONS SHEET C1.01 FOR REMOVAL, RELOCATION AND ADJUSTMENTS.
- ELECTRICAL WORK WILL BE PERFORMED OUTSIDE OF THE CONSTRUCTION FENCE AREA SHOWN. CONTRACTOR SHALL PROTECT THOSE AREAS AS NEEDED WITH TEMPORARY CONSTRUCTION FENCE, DUPONT CONSTRUCTION FENCING #L60 OR L70.
- ONE WESTBOUND LANE OF TRAFFIC SHALL REMAIN OPEN ON PRAIRIE STONE PARKWAY. ANY LANE CLOSURE ON PRAIRIE STONE PARKWAY SHALL BE IN ACCORDANCE WITH IDOT HIGHWAY STANDARD 701601. ROAD CONSTRUCTION AHEAD AND CONSTRUCTION ACCESS SIGNS SHALL BE PLACED ALONG PRAIRIE STONE PARKWAY. SIDEWALK CLOSURE SIGNS SHALL BE PLACED AS INDICATED ON THE PLANS AND IN ACCORDANCE WITH IDOT HIGHWAY STANDARD 701801. THIS WORK WILL BE PAID FOR PER LUMP SUM AS 'TRAFFIC CONTROL AND PROTECTION'.
- SEE LANDSCAPE ARCHITECTURE DRAWINGS (L SERIES) FOR SITE DESIGN, LAYOUT AND CONSTRUCTION DETAILS.
- SEE ELECTRICAL DRAWINGS (E SERIES) FOR ELECTRICAL DESIGN AND CONSTRUCTION DETAILS.

(R–#) REMOVAL TAGS

REMOVALS / RELOCATES / ADJUSTMENTS

NUMBER		REMARKS
R–1	CONCRETE SIDEWALK	REMOVE
R–2	CONCRETE SIDEWALK	REMOVE & REPLACE IN–KIND
R–3	BUILDING AND FOUNDATION	REMOVE
R–4	TREE	REMOVE
R–5	SANITARY MANHOLE	REMOVE
R–6	SANITARY SEWER	REMOVE
R–7	WATER SERVICE	REMOVE
R–8	WATER VALVE/BOX	REMOVE
R–9	FIRE HYDRANT ASSEMBLY	REMOVE
R–10	BENCH	REMOVE & REINSTALL PER OWNER'S DIRECTION
R–11	MOBILE STRUCTURE/UNIT	RELOCATE PER OWNER'S DIRECTION
R–12	RETAINING WALL	REMOVE
R–13	BUSH/SHRUB	REMOVE
R–14	AGGREGATE	REMOVE
R–15	WOODEN BOOTH	REMOVE & REINSTALL PER OWNER'S DIRECTION
R–16	TRANSFORMER & PAD	REMOVE
R–17	WOODEN FENCE	REMOVE
R–18	ROPE FENCE	REMOVE
R–19	CHAIN LINK FENCE	REMOVE
R–20	BOLLARD WITH LIGHT	REMOVE
R–21	ELECTRICAL METER/BOX	REMOVE
R–22	FLAGPOLE	REMOVE
R–23	GREASE TRAP	REMOVE

IRRIGATION NOTES:

- ANY IRRIGATION LINES DISCONNECTED BY LAND DISTURBING ACTIVITIES SHALL BE RECONNECTED TO THE NEAREST IRRIGATION LINE.
- ANY IRRIGATION VALVES ENCOUNTERED DURING CONSTRUCTION SHALL REMAIN UNLESS OTHERWISE SPECIFIED BY THE VILLAGE.

LEGEND:

- DENOTES CONCRETE SIDEWALK REMOVAL
- DENOTES BUILDING & FOUNDATION REMOVAL
- DENOTES AGGREGATE REMOVAL
- DENOTES UTILITIES TO BE REMOVED
- DENOTES SAWCUT (FULL DEPTH)
- R–# DENOTES MISC. REMOVAL ITEMS (SEE THIS SHEET FOR DESCRIPTION)
- DENOTES TREE AND BRUSH REMOVAL
- DENOTES TREE AND BRUSH PROTECTION

TRIA ARCHITECTURE

KITCHEN CONSULTANT: JSD
edge associates inc. food service design
(P) 855.962.4422

CIVIL CONSULTANT: HRGreen (P) 815.385.1778

LANDSCAPE CONSULTANT: JSD (P) 312.644.3379

STRUCTURAL CONSULTANT: Larson Engineering, Inc. (P) 630.357.0940

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER:	19132101	REVISION	DATE
PROJECT MANAGER:	TMR		
DRAWN BY:	ERN		
ISSUED FOR BID & PERMIT:	09/05/2024		

SITE DEMOLITION PLAN

NOT FOR CONSTRUCTION

C1.01

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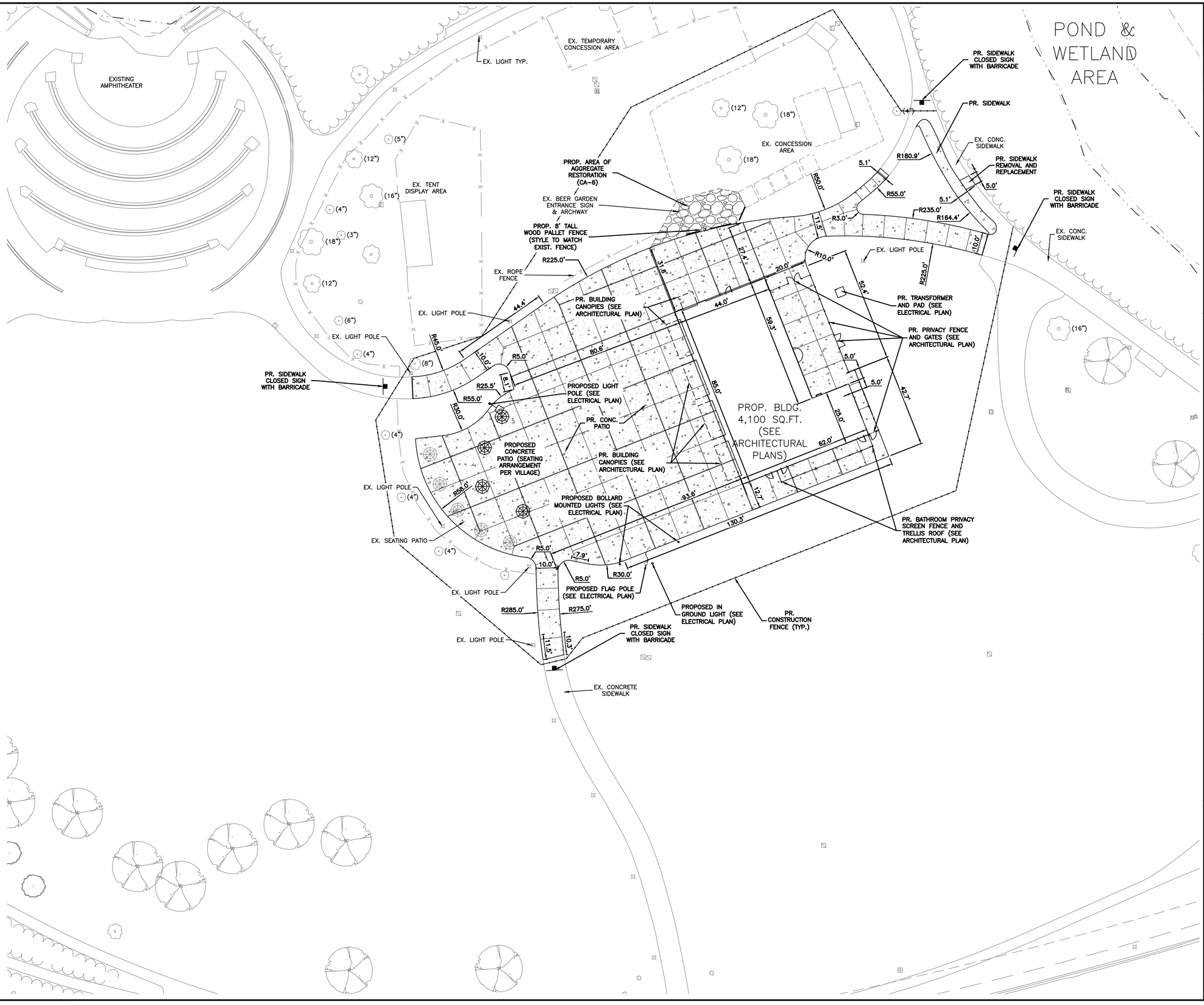

LEGEND:

- DENOTES PROPOSED CONSTRUCTION FENCING
- X — DENOTES PROPOSED FENCING (SEE LABELS)
- DENOTES PROPOSED CONCRETE SIDEWALK/PATIO

1 DETAILED SITE PLAN
1"=20'-0"

0 10 20 40 60

TRIA ARCHITECTURE

KITCHEN CONSULTANT: edge associates inc. food service design (P) 855.962.4422

CIVIL CONSULTANT: HRGreen (P) 815.385.1778

LANDSCAPE CONSULTANT: JSD (P) 312.644.3379

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VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

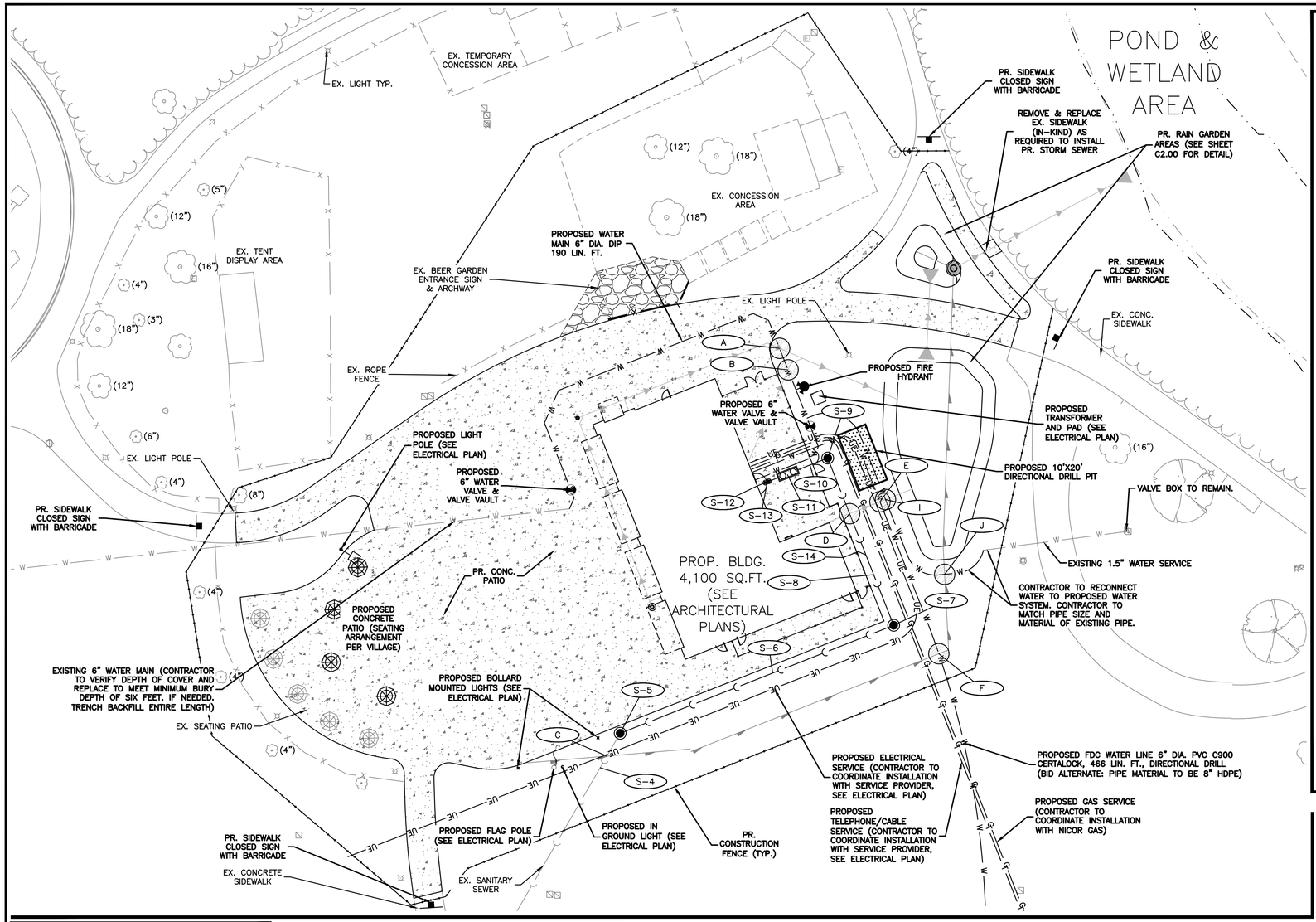
DATE	REVISION

PROJECT NUMBER: 19132.01
PROJECT MANAGER: TMR
DRAWN BY: ERN
ISSUED FOR BID & PERMIT: 09/05/2024

DETAILED SITE PLAN

NOT FOR CONSTRUCTION

C1.02



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S-# SANITARY SEWER TAGS

S-1 EX. SAN SWR MH, 4' DIA.
RIM = 855.28
INV = 832.93 NE/SW 15" DIP
INV = 833.53 S 6" PVC

S-2 EX. SAN SWR, 15" DIP
@ 0.28%

S-3 EX. SAN SWR DROP MH, 4' DIA.
RIM = 857.61
INV = 833.61 NE/W 15" DIP
INV = 835.96 NE 6" DIP
INV = 845.31 NE 6" DIP

S-4 EX. SAN SWR, 8" PVC
CONTRACTOR TO VERIFY DIAMETER AND PIPE MATERIAL
@ 0.47%

S-5 SAN SWR MH, 4' DIA.
RIM = 854.65
INV = 846.61 SW 8"
INV = 846.71 NE 6"
CONTRACTOR TO VERIFY EXIST. PIPE INVERT AND CONTACT ENGINEER IF THERE IS A DISCREPANCY

S-6 99 LIN FT SAN SWR, 6" PVC (SDR 26)
@ 1.04%

S-7 SAN SWR MH, 4' DIA.
RIM = 855.15
INV = 847.74 SW 6"
INV = 847.84 NW 6"

S-8 61 LIN FT SAN SWR, 6" PVC (SDR 26)
@ 1.04%

S-9 SAN SWR MH, 4' DIA.
RIM = 855.00
INV = 848.47 SE 6"
INV = 848.57 SW 4"

S-10 11 LIN FT SAN SWR, 4" PVC (C900)
@ 2.08%

S-11 GREASE TRAP (1,000 GAL.)
SEE BUILDING PLUMBING PLAN FOR DETAILS
RIM(S) = 855.26 SW, 855.21 NE
INV = 848.97 (INLET)
INV = 848.80 (OUTLET)

S-12 7 LIN FT SAN SWR, 4" PVC (C900)
@ 2.08%
INV @ BLDG = 849.12
(VERFIY W/ ARCH)

S-13 TWO-WAY CLEAN OUT (SEE DETAIL)
RIM = 855.35
INV = +/- 849.05

S-14 8 LIN FT SAN SWR, 4" PVC (SDR 26)
@ 2.08%
INV @ S-8 = 848.19
INV @ BLDG = 848.36
(VERFIY W/ ARCH)

WATER UTILITY NOTES:

- THE CONTRACTOR SHALL EXCAVATE DOWN TO THE TOP OF THE WATER MAIN / SERVICE WITHIN THE PROPOSED DEVELOPMENT AREA AND DETERMINE THE ELEVATION OF THE TOP OF THE PIPE. IF NECESSARY, THE CONTRACTOR SHALL REPLACE THE EXISTING 6" WATER LINE SO THAT IT WILL HAVE A MINIMUM OF SIX (6) FEET OF COVER FROM THE TOP OF THE PIPE TO THE PROPOSED FINISHED GRADE. IF NECESSARY, THE CONTRACTOR SHALL REPLACE THE EXISTING 1.5" WATER LINE SO THAT IT WILL HAVE A MINIMUM OF FIVE (5.5) FEET OF COVER FROM THE TOP OF THE PIPE TO THE PROPOSED FINISHED GRADE. IF IT IS DETERMINED LOWERING IS NOT REQUIRED THIS WORK WILL BE REMOVED FROM THE CONTRACT.

LEGEND:

- DENOTES PROPOSED CONSTRUCTION FENCING
- DENOTES EXISTING UTILITIES
- DENOTES PROPOSED UTILITIES
- DENOTES PROPOSED CONCRETE SIDEWALK/PATIO
- DENOTES MAINTAIN 18" VERTICAL SEPARATION PER IEPA'S REQUIREMENTS

A CONFLICT TAGS

A
STORM SEWER TAG 7
BOP = 849.53
PROP. 6" WATER SERVICE
TOP = 848.03
VERT SEP = 1.50' MIN.
LOWERING REQ'D
STORM SEWER SHALL BE WATER MAIN QUALITY PIPE

B
STORM SEWER TAG 15
BOP = 849.86
PROP. 6" WATER SERVICE
TOP = 848.36
VERT SEP = 1.50' MIN.
LOWERING REQ'D
STORM SEWER SHALL BE WATER MAIN QUALITY PIPE

C
STORM SEWER TAG 14
BOP = 852.94
SANITARY SEWER TAG 4
TOP = 847.26
VERT SEP = 5.68'

D
STORM SEWER TAG 16
BOP = 851.04
SANITARY SEWER TAG 8
TOP = 848.78
VERT SEP = 2.26'

E
STORM SEWER TAG 16
BOP = 850.10
PROP. 6" WATER SERVICE
TOP = 847.27
VERT SEP = 2.83'

F
STORM SEWER TAG 14
BOP = 850.58
PROP. 6" WATER SERVICE
TOP = 845.78
VERT SEP = 4.80'

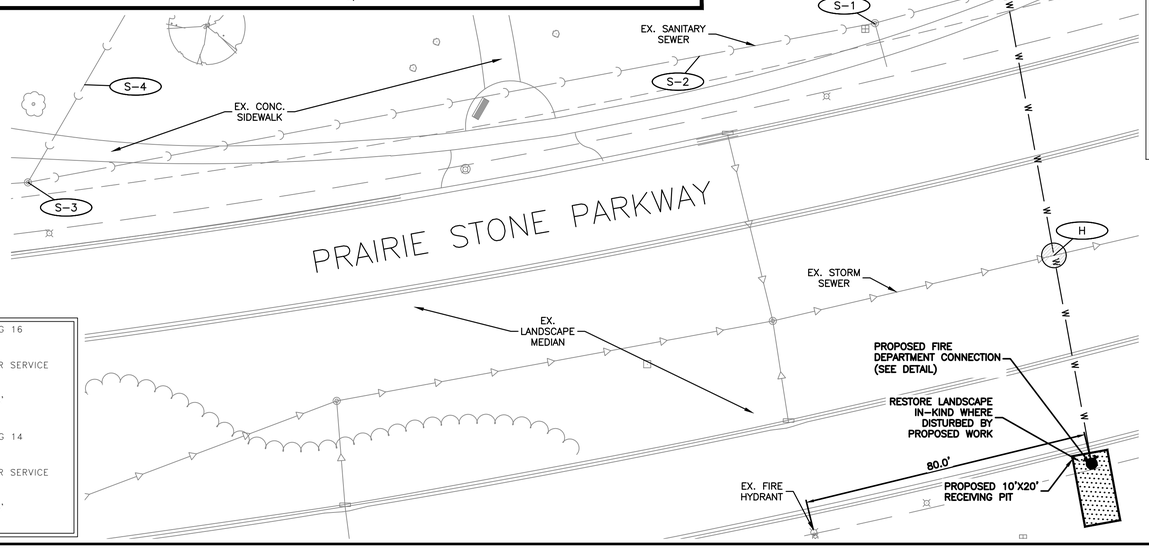
G
PROP. 6" WATER SERVICE
BOP = 848.12
EXIST. SANITARY SEWER
TOP = 834.08
VERT SEP = 14.04'

H
EXIST. STORM SEWER
BOP = 850.42
PROP. 6" WATER SERVICE
TOP = 848.92
VERT SEP = 1.50' MIN.

I
STORM SEWER TAG 16
BOP = 849.93
PROP. 1.5" WATER SERVICE
TOP = 846.68
VERT SEP = 3.25'

J
STORM SEWER TAG 14
BOP = 850.00
PROP. 1.5" WATER SERVICE
TOP = 845.20
VERT SEP = 4.80'

1 DETAILED UTILITY PLAN
1"=20'-0"
0 10 20 40 60



IRRIGATION NOTES:

- ANY IRRIGATION LINES DISCONNECTED BY LAND DISTURBING ACTIVITIES SHALL BE RECONNECTED TO THE NEAREST IRRIGATION LINE.
- ANY IRRIGATION VALVES ENCOUNTERED DURING CONSTRUCTION SHALL REMAIN UNLESS OTHERWISE SPECIFIED BY THE VILLAGE.

DIRECTIONAL DRILL NOTES:

- SEE SHEET C1.04 FOR OVERALL PATH OF WATER DIRECTIONAL DRILL.

LANE CLOSURE NOTES:

- CONTRACTOR TO UTILIZE LANE CLOSURE METHODS AS REQUIRED FOR DIRECTIONAL DRILL OPERATIONS PER IDOT STANDARDS.
- SEE SHEET C5.02 FOR IDOT LANE CLOSURE DETAIL.

TRIA ARCHITECTURE

KITCHEN CONSULTANT: edge associates inc. food service design (P) 855.962.4422
CIVIL CONSULTANT: HRGreen (P) 815.385.1778
LANDSCAPE CONSULTANT: JSD (P) 312.644.3379
STRUCTURAL CONSULTANT: Larson Engineering, Inc. (P) 630.357.0940

VILLAGE OF HOFFMAN ESTATES
VILLAGE GREEN CONCESSIONS
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

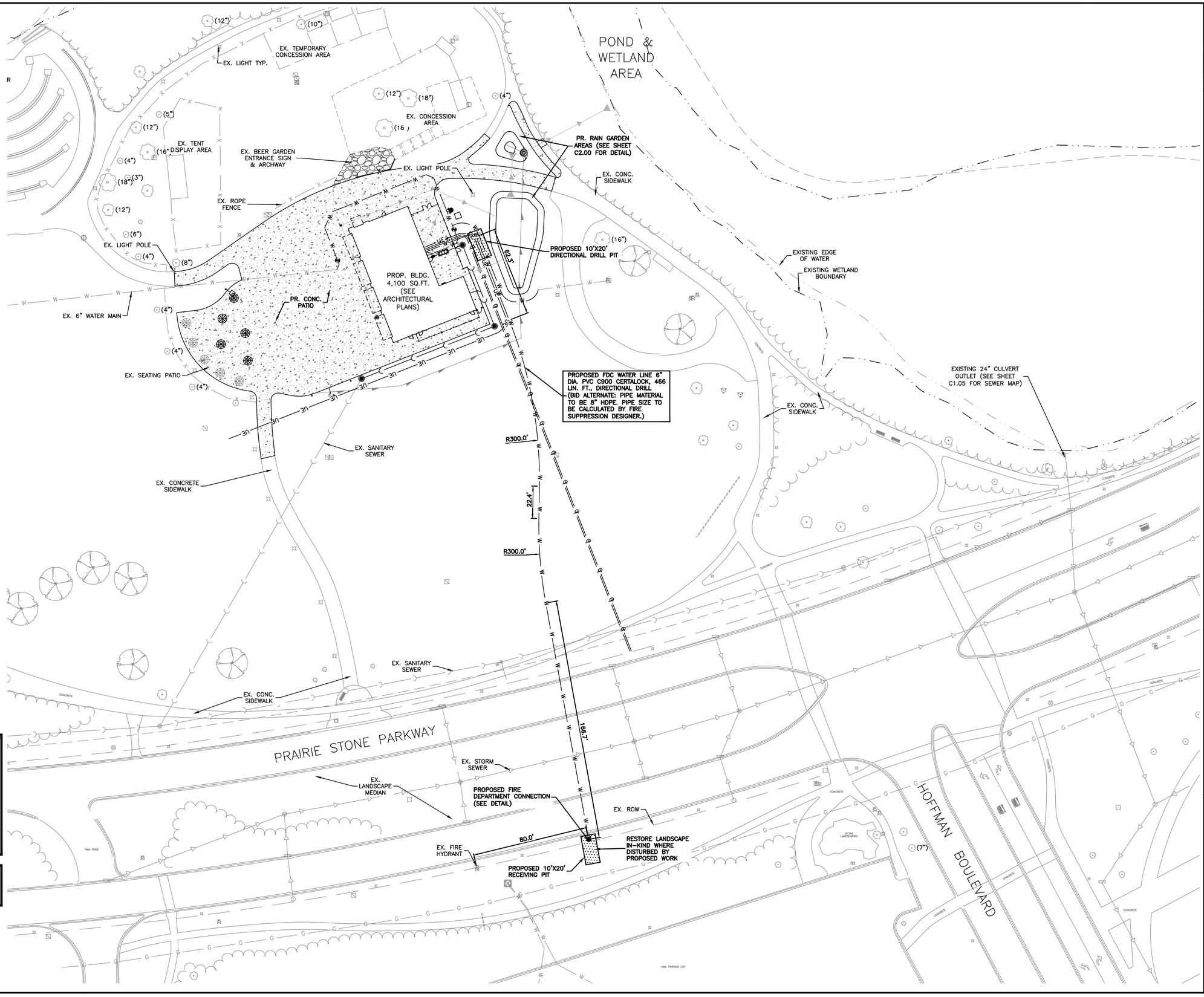
PROJECT NUMBER: 19132101
PROJECT MANAGER: TMR
DRAWN BY: ERN

DATE	REVISION
09/05/2024	ISSUED FOR BID & PERMIT

DETAILED UTILITY PLAN

NOT FOR CONSTRUCTION

C1.03



LEGEND:

- DENOTES PROPOSED CONSTRUCTION FENCING
- DENOTES EXISTING UTILITIES
- DENOTES PROPOSED UTILITIES
- DENOTES PROPOSED CONCRETE SIDEWALK/PATIO
- DENOTES MAINTAIN 18" VERTICAL SEPARATION PER IEPA'S REQUIREMENTS

NOTES:

- SEE SHEET C1.03 FOR DETAILED UTILITY INFORMATION.
- SEE SHEET C1.05 FOR SEWER ROUTING TO MWRD SEWERS.

1 OVERALL UTILITY PLAN
1"=30'-0"

0 15 30 60 90

TRIA ARCHITECTURE

KITCHEN CONSULTANT: edge associates inc. food service design (P) 855.962.4422

CIVIL CONSULTANT: HRGreen (P) 815.385.1778

LANDSCAPE CONSULTANT: JSD (P) 312.644.3379

STRUCTURAL CONSULTANT: Larson Engineering, Inc. (P) 630.357.0940

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER:	191320.01	REVISION	DATE
PROJECT MANAGER:	TMR		
DRAWN BY:	ERN		
ISSUED FOR BID & PERMIT:	09/05/2024		

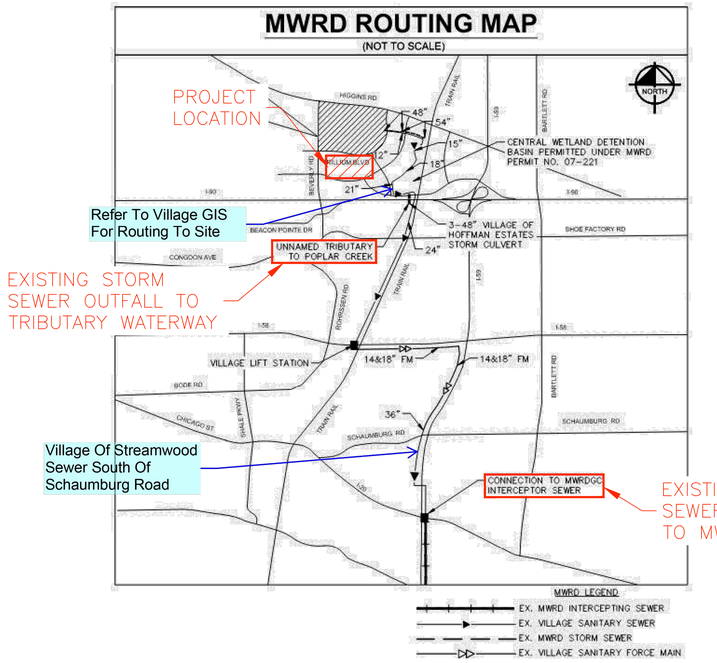
OVERALL UTILITY PLAN

NOT FOR CONSTRUCTION

C1.04

MWRD ROUTING MAP

(NOT TO SCALE)



NOTES:

- SEE SHEET C1.03 FOR DETAILED UTILITY INFORMATION.

VILLAGE OF HOFFMAN ESTATES – STORM SEWER

PROPOSED 18" STORM SEWER TO EXISTING DETENTION POND
PROJECT LOCATION
24" Culvert
12"
42"
60"
18" Culvert
2-42" Culverts
30"
2-30" Culverts
3-48" Culverts
I-90 JANE ADDAMS TOLLWAY
Hoffman Blvd
Sears Centre Arena
Main Street
Prairie Stone Pkwy
Barrington Rd
Beverly Rd
Pratum Ave
Stone Gate Dr
Stone Ridge Dr
Stone Creek Dr
Stone Manor Ln
Stone Pine Ln
Stone Bridge Ln
Stone Hill Dr
Stone Mill Dr
Stone Meadow Ln
Stone Glen Dr
Stone Crest Dr
Stone Fence Ln
Stone Gate Ln
Stone Ridge Ct
Stone Creek Ct
Stone Manor Ct
Stone Pine Ct
Stone Bridge Ct
Stone Hill Ct
Stone Mill Ct
Stone Meadow Ct
Stone Glen Ct
Stone Crest Ct
Stone Fence Ct
Stone Gate Ct

1 DETAILED GRADING PLAN
1"=20'-0"

0 10 20 40 60

N

ST-#	STORM TAGS
ST-1	18" RCP FES INV = 847.40
ST-2	65 LIN FT SS, 18" RCP @ 1.46%
ST-3	STM SWR CB 4' DIA., R-4341-A GRATE RIM = 850.60 INV = 848.35, NE 18" RCP INV = 848.40, S/NW 4" PVC
ST-4	18" RCP FES INV = 849.10
ST-5	30 LIN FT SS, 18" RCP @ 1.00%
ST-6	18" RCP FES INV = 849.40
ST-7	117 LIN FT SS PVC, 6" C900 @ 1.00% INV @ RAIN GARDEN = 849.10
ST-8	CLEANOUT RIM = 855.42 INV = 850.27
ST-9	69 LIN FT SS PVC, 6" SDR 26 @ 1.00% INV @ ST-7 = 850.25
ST-10	CLEANOUT RIM = 855.32 INV = 850.94
ST-11	4 LIN FT SS PVC, 6" SDR 26 (CANOPY DRAIN) @ 1.00% INV @ ST-7 = 850.10 INV @ BLDG = 850.14
ST-12	4 LIN FT SS PVC, 6" SDR 26 (CANOPY DRAIN) @ 1.00% INV @ ST-9 = 850.52 INV @ BLDG = 850.56
ST-13	4 LIN FT SS PVC, 6" SDR 26 (CANOPY DRAIN) @ 1.00% INV @ ST-9 = 850.92 INV @ BLDG = 850.96
ST-14	276 LIN FT SS PVC, 4" SDR 35 PERF. UNDERDRAIN SLOPE TO MATCH SURFACE INV OF PIPE TO BE 1.20' BELOW SURFACE
ST-15	40 LIN FT SS PVC, 4" C900 (ROOF DRAIN) @ 6.00% INV @ ST-7 = 849.45 INV @ BLDG = 851.85
ST-16	32 LIN FT SS PVC, 4" SDR-26 (ROOF DRAIN) @ 8.59% INV @ RAIN GARDEN = 849.10 INV @ BLDG = 851.85 MITER END OF PIPE TO MATCH SLOPE
ST-17	12 LIN FT SS PVC, 4" SDR 35 PERF. UNDERDRAIN SLOPE TO MATCH SURFACE INV OF PIPE TO BE 1.20' BELOW SURFACE

LEGEND:

- DENOTES CONSTRUCTION FENCING
- DENOTES PROPOSED STORM SEWER
- XXX DENOTES CONTOUR ELEVATIONS
- XXX.XX DENOTES SPOT ELEVATIONS
- DENOTES DRAINAGE DIRECTION ARROW
- DENOTES OVERLAND OVERFLOW ROUTE
- ST-# DENOTES STORM SEWER TAG

NOTES:

- LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY GOVERNING AUTHORITIES, IN ADDITION TO, NO LAND CLEARING OR GRADING SHALL BEGIN UNTIL ALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED. (INCLUDING STORM WATER POLLUTION PREVENTION PLAN PER THE DEVELOPMENT CRITERIA.) SEE SHEET C3.00-C3.02 FOR EROSION CONTROL MEASURES)
- CONTOURS AND SPOT GRADES SHOWN ARE FINISH GRADE ELEVATIONS.
- ALL EXISTING UTILITIES AND STORM SEWER TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
- ALL STRUCTURES & DEBRIS SHALL BE REMOVED PRIOR TO CONSTRUCTION & DISPOSED OF OFFSITE.
- ANY EXISTING FIELD DRAIN TILES ENCOUNTERED SHALL BE REPAIRED, RECONNECTED OR CONNECTED TO THE NEAREST FIELD TILE.
- LAYDOWN/STAGING LOCATION TO BE DETERMINED BY CONTRACTOR AND OWNER.
- STOCKPILE LOCATION TO BE DETERMINED BY CONTRACTOR AND OWNER.
- LOCATION OF CONSTRUCTION FENCING SHOWN IS APPROXIMATE. CONTRACTOR TO COORDINATE EXACT LOCATION OF CONSTRUCTION FENCING WITH OWNER IN THE FIELD. CONTRACTOR SHALL ADJUST THE FENCE AS NEEDED TO PROVIDE A WORK AREA AS INDICATED WHILE ALLOWING THE ADJACENT AREAS TO REMAIN OPEN THROUGHOUT CONSTRUCTION.
- THE CONSTRUCTION SITE SHALL BE SECURED WHENEVER CONTRACTOR IS NOT ON SITE.
- SEE LANDSCAPE ARCHITECTURE DRAWINGS (L SERIES) FOR SITE DESIGN, LAYOUT AND CONSTRUCTION DETAILS.
- SEE ELECTRICAL DRAWINGS (E SERIES) FOR ELECTRICAL DESIGN AND CONSTRUCTION DETAILS.

RAIN GARDEN DATA:

- THE PROPOSED RAIN GARDENS SHALL FUNCTION AS VOLUME CONTROL REQUIRED BY MWRD DUE TO IMPERVIOUS AREA BEING INSTALLED ONSITE. THE VOLUME REQUIRED IS EQUAL TO 1" OVER THE NEW IMPERVIOUS AREA INSTALLED BY THIS DEVELOPMENT AND THE REMAINING IMPERVIOUS AREA INSTALLED BY THE PREVIOUS DEVELOPMENT PHASE (SEE STORMWATER REPORT PREPARED BY HR GREEN FOR THIS DEVELOPMENT FOR ADDITIONAL DETAILS).
- IMPERVIOUS AREA INSTALLED BY PREVIOUS AND PROPOSED DEVELOPMENTS = 26,910 SQ. FT. (0.62 ACRE)
- VOLUME CONTROL REQUIRED = 26,910 / 12 = 2,243 CU. FT.
- VOLUME CONTROL PROPOSED = 3,288 CU. FT.
  - OPEN AIR STORAGE = 2,781 CU. FT.
  - BELOW GRADE STORAGE = 507 CU. FT.
- THE OPEN AIR STORAGE REPRESENTS VOLUME AVAILABLE BETWEEN THE ELEVATIONS OF 849.10 AND 850.60.
- THE BELOW GRADE STORAGE REPRESENTS THE VOLUME AVAILABLE WITHIN THE RAIN GARDEN SOILS PER THE MWRD BIORETENTION FACILITY DETAIL, SEE SHEET C5.00.
- CONTRACTOR SHALL COORDINATE WITH ENGINEER TO CONFIRM THE STORAGE VOLUME INSTALLED PRIOR TO COMPLETING CONSTRUCTION.

DISTURBANCE NOTES:

- THE PROPOSED LAND DISTURBING ACTIVITIES ARE ESTIMATED TO DISTURB APPROXIMATELY 0.90 ACRES OF AREA.

TRIA ARCHITECTURE

KITCHEN CONSULTANT: edge associates inc. food service design (P) 855.962.4422

CIVIL CONSULTANT: HRGreen (P) 815.385.1778

LANDSCAPE CONSULTANT: JSD (P) 312.644.3379

STRUCTURAL CONSULTANT: Larson Engineering, Inc. (P) 630.357.0940

VILLAGE GREEN CONCESSIONS

VILLAGE OF HOFFMAN ESTATES

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

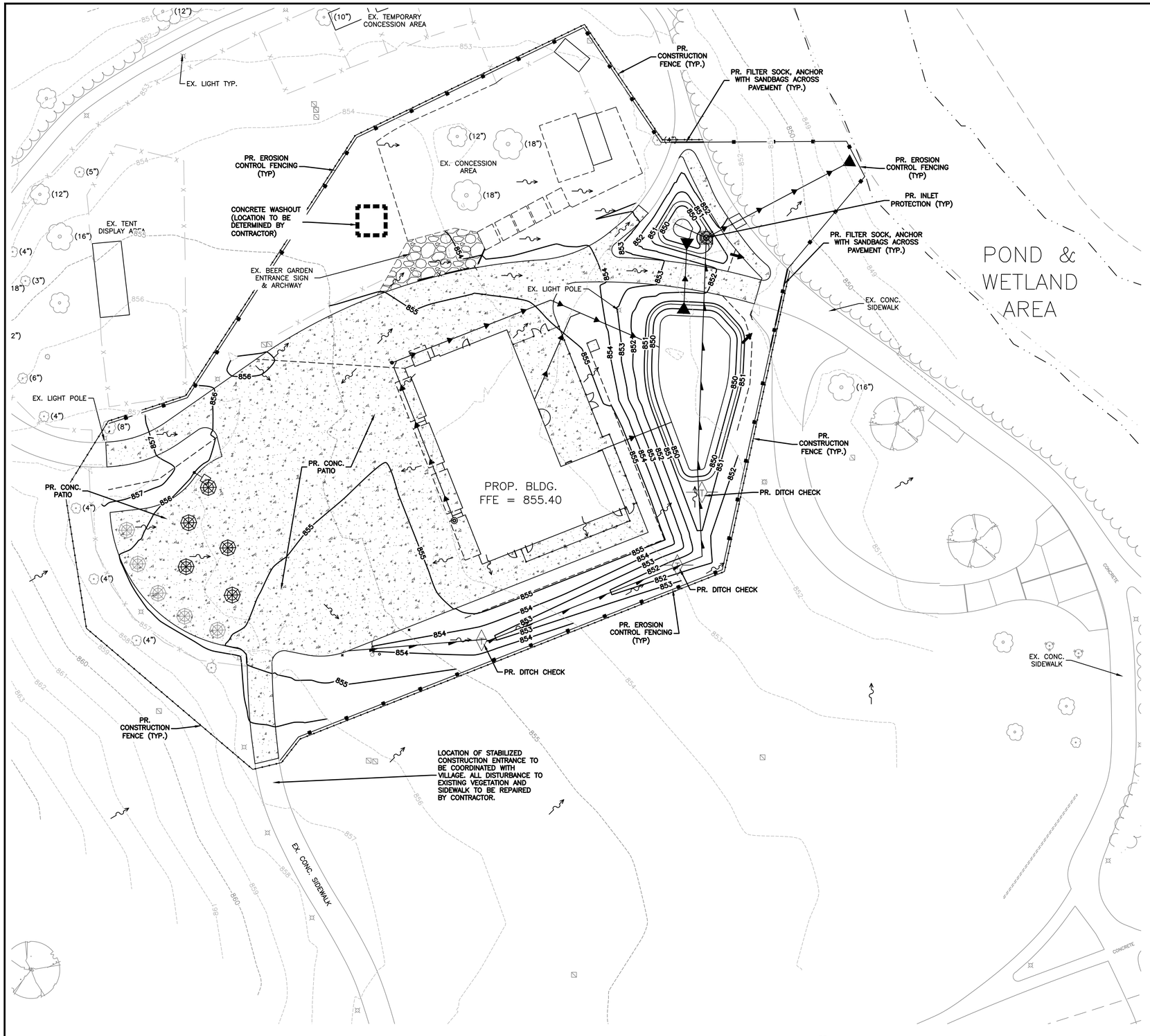
PROJECT NUMBER:	19132101
PROJECT MANAGER:	TMR
DRAWN BY:	ERN

DATE	REVISION
09/05/2024	ISSUED FOR BID & PERMIT

DETAILED GRADING PLAN

NOT FOR CONSTRUCTION

C2.00



1 EROSION CONTROL PLAN
1"=20'-0"

0 10 20 40 60

N

LEGEND:

- EROSION CONTROL BARRIER
- INLET PROTECTION (FILTER BASKET)
- DENOTES PROPOSED STORM SEWER
- DENOTES PROPOSED DRAINAGE DIRECTION ARROW.
- DENOTES OVERLAND OVERFLOW ROUTE
- DITCH CHECK
- CONCRETE WASHOUT

NOTES:

- ALL EROSION, SEDIMENTATION AND DUST CONTROL SHALL FOLLOW ILLINOIS URBAN MANUAL, BEST MANAGEMENT PRACTICES AND THE VILLAGE OF HOFFMAN ESTATES MUNICIPAL CODE.
- LAND DISTURBING ACTIVITIES SHALL NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED BY GOVERNING AUTHORITIES, IN ADDITION TO, NO LAND CLEARING OR GRADING SHALL BEGIN UNTIL ALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED.
- A MWRD WATERSHED MANAGEMENT PERMIT IS REQUIRED FOR THE PROJECT. CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF THE MWRD PERMIT.
- ALL EXISTING UTILITIES AND STORM SEWER TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
- STOCKPILE LOCATION TO BE DETERMINED IN THE FIELD BY THE OWNER AND SITE CONTRACTOR.
- ALL STOCKPILES MUST BE SEEDED IMMEDIATELY FOR EROSION CONTROL AND PROTECTED WITH SILT FENCING UNTIL THE SEEDING IS ESTABLISHED.
- SEE LANDSCAPE ARCHITECTURAL DRAWINGS (L SERIES) FOR SITE DESIGN, LAYOUT AND CONSTRUCTION DETAILS.
- THE INSTALLATION AND MAINTENANCE OF THE CONCRETE WASHOUT SHALL BE INCLUDED IN THE ITEMS BEING CONSTRUCTED.

TRIA ARCHITECTURE

KITCHEN CONSULTANT: edge associates inc. food service design (P) 855.962.4422

CIVIL CONSULTANT: HRGreen (P) 815.385.1778

LANDSCAPE CONSULTANT: JSD (P) 312.644.3379

STRUCTURAL CONSULTANT: Larson Engineering, Inc. (P) 630.357.0940

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER:	191320.01	REVISION	DATE
PROJECT MANAGER:	TMR		
DRAWN BY:	ERN		
ISSUED FOR BID & PERMIT:	09/05/2024		

EROSION CONTROL PLAN

NOT FOR CONSTRUCTION

C3.00

CONTROL MEASURE GROUP	CONTROL MEASURE	APPL.	KEY	CONTROL MEASURE CHARACTERISTICS	TEMP.	PERMNT
SEDIMENT FILTERS	BARRIER FILTER	X	BF	USED FOR SINGLE LOTS OR DRAINAGE AREAS LESS THAN 1/2 ACRE TO FILTER SEDIMENT FROM RUNOFF.	X	
	FILTER BASKET	X	FB	USED FOR FILTERING SEDIMENT WITHIN THE ROADWAY BEFORE ENTERING THE STORM SEWER	X	
	INLET PROTECTION	X	IP	USED FOR FILTERING SEDIMENT WITHIN GRASS AREAS BEFORE WATER ENTERS THE STORM SEWER	X	
WATERWAYS	DITCH CHECK	X	DC	PROVIDES AN ENERGY DISSIPATER ALONG A LENGTHY CHANNEL/DITCH TO REDUCE VELOCITY OF STORMWATER	X	
MUD AND DUST CONTROL	STABILIZED CONST. ENTRANCE	X	SE	PREVENT MUD FROM BEING PICKED UP AND CARRIED OFF-SITE.	X	
	DUST AND TRAFFIC CONTROL	X	DT	PREVENTS DUST FROM LEAVING CONSTRUCTION SITE.	X	

SEEDING / SODDING CHART

	CONTRACTOR RESPONSIBILITY			PER I.D.O.T. SPECIFICATIONS APR. 1 – JUNE 15			CONTRACTOR RESPONSIBILITY		PER I.D.O.T. SPECIFICATIONS AUG. 1 – NOV. 1		CONTRACTOR RESPONSIBILITY	
STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG	SEPT.	OCT.	NOV.	DEC.
TEMPORARY SEEDING												
PERMANENT SEEDING												
SODDING												
				PER I.D.O.T. SPECIFICATIONS					PER I.D.O.T. SPECIFICATIONS			

- *SEE PROJECT MANUAL AND I.D.O.T SPECIFICATIONS FOR INSTALLATION AND APPLICATION REQUIREMENTS*
- *SUPPLEMENTAL WATERING MAYBE REQUIRED. (SEE PROJECT MANUAL AND I.D.O.T. SPECIFICATIONS FOR REQUIREMENTS)*

COUNTY STORM WATER PERMIT REQUIREMENTS
SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. AREAS OF THE DEVELOPMENT SITE THAT ARE NOT TO BE GRADED SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC OR OTHER DISTURBANCE UNTIL FINAL SEEDING IS PREFORMED.

SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, DEVELOPMENT SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.

STABILIZATION BY SEEDING SHALL INCLUDE TOPSOIL PLACEMENT AND FERTILIZATION, AS NECESSARY.

NATIVE SEED MIXTURES SHALL INCLUDE RAPID-GROWING ANNUAL GRASSES OR SMALL GRAINS TO PROVIDE INITIAL, TEMPORARY SOIL STABILIZATION – REFER TO SEPARATE LANDSCAPING PLANS INCLUDED BY OTHERS.

OFFSITE PROPERTY SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. VELOCITY DISSIPATION DEVICES SHALL BE PLACED AT CONCENTRATED DISCHARGE LOCATIONS ALONG THE LENGTH OF ANY OUTFALL CHANNEL, AS NECESSARY TO PREVENT EROSION.

SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE DISTURBANCE OF TRIBUTARY AREAS.

STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE DEVELOPMENT SITE, OR TEMPORARY CEASED ON ANY PORTION OF THE DEVELOPMENT SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. STABILIZATION OF DISTURBED AREAS SHALL BE INITIATED WITHIN 1 WORKING DAY OF PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE, BUT NO LATER THAN 14 CALENDAR DAYS FROM THE INITIATION OF STABILIZATION WORK IN THE AREA. EXCEPTIONS TO THESE TIME FRAMES ARE SPECIFIED AS INSTANCES WHEN THE INITIATION OF STABILIZATION MEASURES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE AND IN AREAS WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED AND WILL RESUME AFTER 14 DAYS, A TEMPORARY STABILIZATION METHOD MAY BE USED.

DISTURBANCE OF STEEPS SLOPES SHALL BE MINIMIZED. AREAS OR EMBANKMENTS HAVING SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED WITH STAKING IN PLACE EROSION CONTROL BLANKET IN COMBINATION WITH SEEDING, OR EQUIVALENT CONTROL MEASURE.

PERIMETER CONTROL MEASURES SHALL BE PROVIDED DOWN SLOPE AND PERPENDICULAR TO THE FLOW OF RUNOFF FROM DISTURBED AREAS, WHERE THE TRIBUTARY AREA IS GREATER THAN 5,000 SQUARE FEET, AND WHERE RUNOFF WILL FLOW IN A SHEET FLOW MANNER. PERIMETER EROSION CONTROL SHALL ALSO BE PROVIDED AT THE BASE OF SOIL STOCKPILES.

THE DRAINAGE SYSTEM SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION DOWN SLOPE FROM DISTURBED AREAS. INLET PROTECTION THAT REDUCES SEDIMENT LOADING, WHILE ALLOWING RUNOFF TO ENTER THE INLET SHALL BE REQUIRED FOR ALL STORM SEWERS. CHECK DAMS, OR AN EQUIVALENT CONTROL MEASURE, SHALL BE REQUIRED FOR ALL CHANNELS. FILTER FABRIC INLET PROTECTION AND STRAW BALE DITCH CHECKS ARE NOT ACCEPTABLE CONTROL MEASURES.

IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G., SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURES). THE ENGINEER, THE VILLAGE AND THE WILL COUNTY SOIL AND WATER CONSERVATION DISTRICT SHALL BE NOTIFIED PRIOR TO THE COMMENCEMENT OF DEWATERING ACTIVITIES.

ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. ALL DISTURBED SOIL AREAS SHALL BE PERMANENTLY STABILIZED.

STOCKPILED SOIL AND MATERIALS SHALL BE REMOVED FROM FLOOD HAZARD AREAS AT THE END OF EACH WORK DAY. SOIL AND MATERIALS STOCKPILED IN IWMC OR BUFFER AREAS SHALL BE PLACED ON TIMBER MATS, OR AN EQUIVALENT CONTROL MEASURE.

EFFECTIVE CONTROL MEASURES SHALL BE UTILIZED TO MINIMIZE THE DISCHARGE OF POLLUTANTS FROM THE DEVELOPMENT SITE. AT A MINIMUM, CONTROL MEASURES SHALL BE IMPLEMENTED IN ORDER TO:

MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATER.

MINIMIZE THE EXPOSURE OF BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, VEHICLE FLUIDS, SANITARY WASTE, AND OTHER MATERIALS PRESENT ON THE DEVELOPMENT SITE TO PRECIPITATION AND TO STORM WATER.

ADEQUATE RECEPTACLES SHALL BE PROVIDED FOR THE DEPOSITION OF ALL CONSTRUCTION MATERIAL DEBRIS GENERATED DURING THE DEVELOPMENT PROCESS. THE CONTRACTOR SHALL NOT CAUSE OR PERMIT THE DUMPING, DEPOSITING, DROPPING, THROWING, DISCARDING OR LEAVING OF CONSTRUCTION MATERIAL DEBRIS UPON OR INTO ANY DEVELOPMENT SITE, CHANNEL OR IWMC. THE DEVELOPMENT SITE SHALL BE MAINTAINED FREE OF CONSTRUCTION MATERIAL DEBRIS.

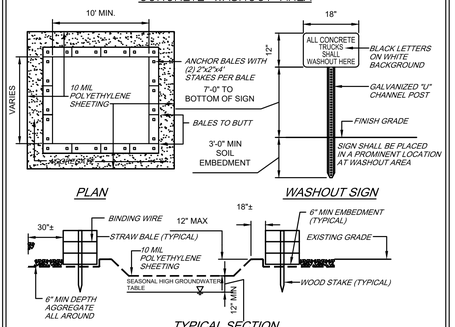
A STABILIZED MAT OF AGGREGATE UNDERLAIN WITH FILTER CLOTH (OR OTHER APPROPRIATE MEASURES) SHALL BE LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION-SITE OF A MAJOR DEVELOPMENT TO OR FROM A PUBLIC RIGHT-OF-WAY, STREET ALLEY, OR PARKING AREA. ANY SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT OF WAY, STREET, ALLEY OR PARKING AREA SHALL BE SCRAPED OR STREET CLEANED AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.

ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN AN EFFECTIVE WORKING CONDITION.

DRAIN TILE SYSTEMS DISTURBED DURING DEVELOPMENT MUST BE RECONNECTED BY THOSE RESPONSIBLE FOR THEIR DISTURBANCE UNLESS THE APPROVED ENGINEERING PLANS.

ALL ABANDONED DRAIN TILES SHALL BE REMOVED IN THEIR ENTIRETY.

CONCRETE WASHOUT AREA



TYPICAL SECTION

NOTES:
1. CONTAINMENT MUST BE STRUCTURALLY SOUND AND LEAK FREE AND CONTAIN ALL LIQUID WASTES.
2. CONTAINMENT DEVICES MUST BE OF SUFFICIENT QUANTITY OR VOLUME TO COMPLETELY CONTAIN THE LIQUID WASTES GENERATED.
3. WASHOUT MUST BE CLEANED OR NEW FACILITIES CONSTRUCTED AND READY TO USE ONCE WASHOUT IS 75% FULL.
4. WASHOUT AREA(S) SHALL BE INSTALLED IN A LOCATION EASILY ACCESSIBLE BY CONCRETE TRUCKS.
5. ONE OR MORE AREAS MAY BE INSTALLED ON THE CONSTRUCTION SITE AND MAY BE RELOCATED AS CONSTRUCTION PROGRESSES.
6. AT LEAST WEEKLY REMOVE ACCUMULATION OF SAND AND AGGREGATE AND DISPOSE OF PROPERLY.

EROSION CONTROL NOTES:

- Land disturbing activities shall not commence until approval to do so has been received by governing authorities, in addition to, no land clearing or grading shall begin until all perimeter erosion and sediment control measures have been installed. (including storm water pollution prevention plan per the development criteria.)
- The general contractor shall strictly adhere to the storm water pollution prevention plan (SWPPP) during construction operations.
- All topsoil shall be stripped prior to filling (structural fill zones).
- All exposed areas shall be seeded as specified within 14 days of final grading.
- Should construction stop for longer than 14 days, the site shall be seeded as specified.
- Sediment and erosion control measures shall be inspected at least once every seven (7) days and within 24 hours of a rainfall exceeding 0.5 inches during a 24-hour period or more frequently if required by governing NPDES general permit. All maintenance required by inspection shall commence within 24 hours and be completed within 48 hours of report.
- This plan shall not be considered all inclusive as the general contractor shall take all necessary precautions to prevent soil sediment from leaving the site.
- General contractor shall comply with all state and local ordinances that apply.
- Additional erosion and sediment control measures will be installed if deemed necessary by on site inspection.
- If installation of storm drainage system should be interrupted by weather or nightfall, the pipe ends shall be covered with filter fabric.
- General contractor shall be responsible to take whatever means necessary to establish permanent soil stabilization.
- All sedimentation and erosion control regulations shall be adhered to per **VILLAGE OF HOFFMAN ESTATE**'s requirements
- All erosion and sediment control practices shall be maintained and repaired as needed to ensure effective performance of the required erosion control measures.
- All erosion and sediment control work shall conform to the I.D.O.T. Manual for, standards and procedures for erosion control.
- All roadways and parking lots shall be cleaned at the end of each construction day.
- All disturbed areas shall be stabilized within 7 days of active disturbance.
- All erosion control measures shall be disposed of within 30 days of final stabilization of the site.
- Ground cover for 5:1 slopes or greater shall be established as soon as possible.
- See landscaping plans for restoration of site.
- Inlet protection such as silt filter fabric or filter baskets shall be placed between frame and grate until vegetation is established.
- Utilize excelsior blanket on all slopes of 5:1 or greater.
- No dimensions shall be assumed by scaling.
- If drain tiles are encountered during construction please notify the engineer immediately.
- No known part of the proposed project is located within a flood hazard 10-100yr area a flood hazard area
- Excess material shall be placed at an approved location. Stockpiles shall be surrounded with filter fence and shall be seeded per I.D.O.T. Manual (latest addition) (temporary) if left more than 14 working days.
- General contractor shall notify all utility companies having underground utilities on site or in right-of-way prior to excavation. Contractor shall contact utility locating company and locate all utilities prior to grading start.

PHASING NOTES:

SEQUENCE OF MAJOR ACTIVITIES

The Contractor will be responsible for implementing the following erosion control and storm water management control measures. The Contractor may designate these tasks to certain subcontractors as he sees fit, but the ultimate responsibility for implementing these controls and ensuring their proper functioning remains with the Contractor. The order of activities will be as follows (refer to the Erosion and Sediment Control Plan Sheet contained in this SWPPP for details):

A. A pre-construction meeting shall be held by the Site Project Manager and the Operator's Engineer prior to land disturbing activities.
B. Install perimeter silt fences and inlet protection to existing storm infrastructure at the locations shown on the Erosion Control Plan.
C. Implement erosion control measures around the existing storm sewer to prevent sedimentation from infiltrating into the storm sewer system as shown on the Erosion Control Plan.
D. Construct temporary construction entrance/exit at location shown on the Erosion Control Plan as needed.
E. Begin clearing and grubbing operations if applicable. Clearing and grubbing shall be done only in areas where earthwork will be performed.
F. Disturbed areas of the site where Construction Activity has ceased for more than 7 days shall be temporarily seeded and watered.
G. Commence site Mass/Rough grading using low points in profile as sediment ponds. If low points are to be drained by pumping, a sump pit shall be installed per the typical detail.
H. Install new perimeter silt fences to newly graded areas per the locations shown on the Grading / Erosion Control plan sheets.
I. Finalize subgrade preparation.
J. Stockpile respread.
K. Temporary seed all fill slopes around perimeter of project (if applicable).
L. Carry out final grading and restoration including additional plantings per landscaping plans.
M. Remove silt fencing only after all surfaces at are at least 70% growth of permanent seedings are stabilized.
N. Remove temporary construction entrance/exit and return to finish grade with restoration.
O. Remove inlet protection around inlets and manholes.

NOTES

This plan has been prepared to comply with the provisions of the NPDES Permit Number issued by the Illinois Environmental Protection Agency for Stormwater Discharges from Construction Site Activities.

The total area of the site that is estimated to be disturbed by excavation, grading, or other activities, is **0.91±** acres of disturbance.

1. Site Description.
   a. The stormwater is tributary to the onsite detention pond. The Overall property area is tributary to site runoff and Village storm sewer to Poplar Creek.
   b. The following is a description of the construction activity which is the subject of this plan: The proposed development consists of construction of, site clearing, grading, proposed sidewalks, curb, and soil erosion and sedimentation control measures.
   c. The construction activities for site improvements will include: site clearing, mass grading, excavation, installation of soil erosion and sedimentation control measures, as a minimum.

   The sequence of the construction activities may be as follows:
   See PHASING NOTES – Sequence of major activities on this sheet.

   The soil erosion and sedimentation control items will be constructed as needed during the above construction activities.

2. Controls.

   This plan addresses the various controls that will be implemented for each of the major construction activities described in 1.b above. For each measure discussed, the contractors will be responsible for its implementation as indicated. Each such contractor has signed the required certification on forms which are attached to, and are a part of, this plan.

   a. Erosion and Sediment Controls.

      (i) STABILIZATION PRACTICES. Provided below is a description of interim and permanent stabilization practices, including site-specific scheduling of the implementation of the practices. Site plans will ensure that existing vegetation is preserved where attainable and disturbed portions of the site will be stabilized. Except as provided in 2.a. (i) (A) and 2.b. stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 10 days after the construction activity in that portions of the site where construction activity will not occur for a period of 21 or more calendar days.

         (A) Where the initiation of stabilization measures by the 14th day after construction activity temporarily or permanently ceases is precluded by snow cover, stabilization measures shall be initiated as soon as practicable thereafter.

         The following interim and permanent stabilization practices, as a minimum, will be implemented to stabilize the disturbed area of the site.
         1. Temporary Seeding
         2. Permanent Seeding
         3. Erosion Blanket
         4. Stabilized Construction Entrance
         5. Barrier Fence
         6. Outlet Protection
         7. Vegetative Channel
         8. Inlet Protection

      (ii) STRUCTURAL PRACTICES. Provided below is a description of structural practices that will be implemented, to the degree attainable, to divert flows from exposed soils, store flows or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. The installation of these devices may be subject to Section 404 of the Clean Water Act.
         1. Detention basins
         2. Storm sewer system
         3. Vegetated drainage swales
         4. Permanent seeding
         5. Inlet and Outlet Protection
         6. Filter fabric

   b. Erosion Control. It shall be the Contractor's responsibility to provide adequate erosion control on the job site. The following erosion control sequence shall be adhered to: See Sequence of major activities on this sheet

      Any siltation of structures or ditches shall be cleaned and maintained by the Contractor, on a weekly basis, until the seeding has taken hold. 70% growth of permanent grass or temporary cover crop. All washouts, gullies, etc. will be regraded and reseeded by the Contractor, at the Contractor's expense.

      The Contractor's responsibility for erosion control shall extend throughout the construction process.
      The Contractor shall be responsible for cleanup of paved surfaces within and adjacent to the project.

      All erosion control practices shall be in compliance with the latest revision of the "Illinois Urban Manual," by the Natural Resources Conservation Service and with "Standards and Specifications for Soil Erosion and Sedimentation Control" as published by the Illinois Environmental Protection Agency.

      If a topsoil stockpile location is provided and approved by the Owner, Contractor shall establish erosion control measures for the stockpile if it is to remain in place for more than three days. In addition, barrier filter fence shall enclose topsoil stockpile location with exception of truck access during construction hours.

   c. Stormwater Management

      (i) Provided below is a description of measures that will be installed during the construction process to control pollutants in stormwater discharges that will occur after construction operations have been completed. The installation of these devices may be subject to Section 404 of the Clean Water Act.

      The practices selected for implantation were determined on the basis of the technical guidance contained in IEPA's Standard Specifications for Soil Erosion and Sedimentation Control, and other ordinances listed in the Specifications.

      The stormwater pollutant control measures shall include:
      1. Silt Filter fence
      2. Drainage Swales
      3. Storm Sewers
      4. Wetland restoration
      5. Native Plantings
      6. Filter Fabric

      (ii) Velocity dissipation devices will be placed at discharge locations and along the length of any outfall channel as necessary to provide a non-erosive velocity flow from the structure to a water course so that the natural physical and biological characteristics and functions are maintained and protected (e.g., maintenance of hydrologic conditions, such as the hydroperiod and hydrodynamics present prior to the initiation of construction activities).

      Stormwater Management Control includes:
      1 Stone Riprap
      2 Filter Fabric
      3 Vegetative channels.
      4 Native Plantings.
      5 Inlet protection.
      6 Wetland Restoration

   d. Approved State and Local Plans.

      The management practices, controls and other provisions contained in this plan are at least as protective as the requirements contained in the Illinois Environmental Protection Agency's Standards and Specifications for Soil and Erosion and Sediment Control dated June 2013. Illinois Procedures and Standards for Urban Soil Erosion and Sedimentation Plan, and the Municipal Subdivision Ordinance. Requirements specified in sediment and erosion control site plans or site permits or stormwater management or site plans or site permits approved by local officials that are applicable to protecting surface water resources are, upon submittal of an NOI to be authorized to discharge under this permit, incorporated by reference and are enforceable under this permit even it they are not specifically included in the plan.

   e. Maintenance.

      The following is a description of procedures that will be used to maintain, in good and effective operating conditions, vegetation, erosion and sediment control measures and other protective measures identified in this plan and Standard Specifications.

      Stabilized construction entrance: The entrance shall be maintained to prevent tracking of sediment onto public streets. This will be done by top dressing with additional stones, remove and replace top layer of stones or washing the entrance. The sediment washed on the public right-of-way will be removed immediately.

      Vegetative erosion control measures: The vegetative growth of temporary and permanent seeding shall be maintained periodically and supply adequate watering. The vegetative cover shall be reseeded as necessary.

      Silt filter fence: The damaged silt filter fence shall be restored to meet the standards or removed and replaced as needed.

      Riprap outlet protection: It shall be inspected after high flows for any scour beneath the riprap or for stones that have been dislodged. It shall be repaired immediately.

      Inlet Protection: Shall be inspected and emptied of silt if filled as required.

      Stabilization of the disturbed areas must be initiated within one working day of permanent or temporary cessation of earth disturbing activities and shall be completed as soon as possible but not later than 14 days form the initiation of the stabilization work in an area.
      (i) Appropriate temporary or permanent stabilization measures shall include seeding, mulching, sodding, and/or non-vegetative measures.
      (ii) Areas having slopes greater than 12 percent shall be stabilized with sod, mat, or blanket in combination with seeding or equivalent.

      Soil storage piles containing more than 10 cu. yds. of material shall not be located with a downslope drainage length less than 25 feet to a roadway or drainage channel. Filter barriers, including straw bales, filter fence, or equivalent, shall be installed immediately on the down slope of the piles.

   3. Other Controls.

      (i) Waste Disposal. The solid waste materials including trash, construction debris, excess construction materials, machinery, tools and other items will be collected and disposed off-site by the contractor. The contractor is responsible to acquire any permit required for such disposal. Burning on the site will not be permitted. No solid materials, including building materials, shall be discharged into Water of the State, except as authorized by a Section 404 permit.
      (ii) The provisions of this plan shall ensure and demonstrate compliance with applicable State and/or local waste disposal, sanitary sewer or septic system regulations.
      (iii) The sanitary sewage will be discharged to the proposed sanitary sewer constructed per IEPA and local standards.

   4. Inspections.

      The Owner, or Owner's representative shall provide qualified personnel to inspect disturbed areas of the construction site which have not been finally stabilized, structural control measures and location where vehicles enter or exit the site. Such inspections shall be conducted at least once every seven (7) calendar days and within 24 hours of the end of a storm that is 0.5 inches or greater or equivalent snowfall.

      a. Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of off-site sediment tracking.

      b. Based on the results of the inspection, the description of potential pollutant sources identified in section 1 above and pollution prevention measures identified in Section 2 above shall be revised as appropriate as soon as practicable after such inspection. Any changes to this plan resulting from the required inspections shall be implemented within 7 calendar days following the inspection.

      c. A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of this stormwater pollution prevention plan and actions taken in accordance with section 4.b shall be made and retained as part of the plan for at least three (3) years after the date of the inspection. The report shall be signed in accordance with Part VI.G of the general permit.

      d. If any violation of the provisions of this plan is identified during the conduct of the construction work covered by this plan, the Resident Engineer or Resident Technician shall complete and file an "Incidence of Noncompliance" (ION) report for the identified violation. The Resident Engineer or Resident Technician shall use forms provided by the Illinois Environmental Protection Agency and shall include specific information on the cause of noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact which may have resulted from the noncompliance. All reports of noncompliance shall be signed by a responsible authority in accordance with Part VI. G of the general permit. The report of noncompliance shall be mailed to the following address:

      Illinois Environmental Protection Agency
      Division of Water Pollution Control
      Attn: Compliance Assurance Section
      2200 Churchill Road
      P.O. Box 19276
      Springfield, Illinois 62794-9276

   5. Non-Stormwater Discharges.

      Except for flows from fire fighting activities, sources of non-stormwater that may be combined with stormwater discharges associated with the construction activity addressed in this plan, are described below:

      a. Water main flushing
      b. Fire hydrant flushing
      c. Watering for dust control
      d. Irrigation drainage for vegetative growth for seeding, etc.

      The pollution prevention measures, as described below, will be implemented for non-stormwater components of the discharge.

      The fire hydrant and water main shall not be flushed directly on the exposed area of sub grade of the pavement. Hoses shall be used to direct the flow into the storm sewer system, if available.

      The erosion due to irrigation of seeding shall be considered minor.

      Contractor to provide the above non-stormwater discharged control to the standard specification required by the County or the approved equal.

   6. Monitoring and Management Plan
      A 3-year maintenance and monitoring plan is required after installation of native landscaping. See Project Specifications for details.

   7. I certify under penalty of law that I understand the terms and conditions of the general National Pollutant Discharge Elimination System (NPDES) permit (ILR10) that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification."

   8. The Notice of Intent (NOI) has **not** been submitted to Illinois Environmental Protection Agency (IEPA) **due to the area of disturbance being less than 1 acre.**

TRIA ARCHITECTURE
KITCHEN CONSULTANT: edge associates inc. food service design (P) 855.962.4122
CIVIL CONSULTANT: HRGreen (P) 815.385.1778
LANDSCAPE CONSULTANT: JSD (P) 312.644.3379
STRUCTURAL CONSULTANT: Larson Engineering, Inc. (P) 630.357.0940

VILLAGE OF HOFFMAN ESTATES
VILLAGE GREEN CONCESSIONS
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

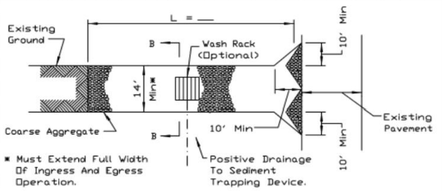
PROJECT NUMBER:	19132.001	REVISION	DATE
PROJECT MANAGER:	TMR		
DRAWN BY:	ERN		
ISSUED FOR BID & PERMIT:	09/05/2024		

EROSION CONTROL SPECIFICATIONS, LEGEND AND GENERAL NOTES

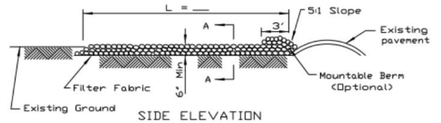
NOT FOR CONSTRUCTION

C3.01

(SE) STABILIZED CONSTRUCTION ENTRANCE PLAN



PLAN VIEW

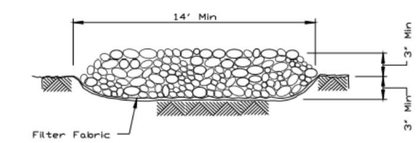


SIDE ELEVATION

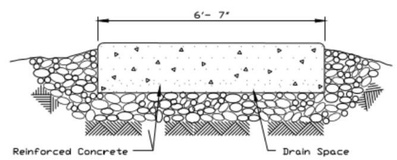
NOTES:
1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table I or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.
2. Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
3. Any drainage facilities required because of washing shall be constructed according to manufacturers specifications.
4. If wash racks are used they shall be installed according to the manufacturer's specifications.

REFERENCE		STANDARD DWG. NO.
Project		NRCS Natural Resources Conservation Service
Designed ____ Date ____		IL-630
Checked ____ Date ____		SHEET 1 OF 2
Approved ____ Date ____		DATE 8-18-94

(SE) STABILIZED CONSTRUCTION ENTRANCE PLAN



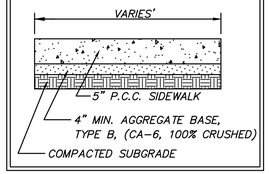
SECTION A-A

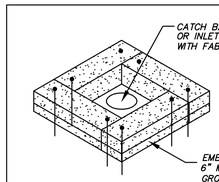


SECTION B-B

REFERENCE		STANDARD DWG. NO.
Project		NRCS Natural Resources Conservation Service
Designed ____ Date ____		IL-630
Checked ____ Date ____		SHEET 2 OF 2
Approved ____ Date ____		DATE 8-18-94

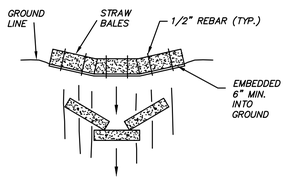
SIDEWALK SECTION DETAIL





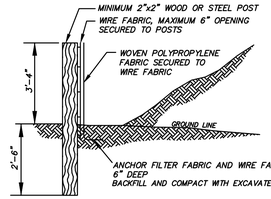
STRAW BALES AROUND DRAIN AREA (TYPICAL)

ALL DRAINAGE STRUCTURES MUST ALSO HAVE FABRIC BETWEEN FRAME AND GRATE



DITCH CHECK DETAIL

1/2" REBAR (2 PER BALE) TO BE DRIVEN A MINIMUM OF 2' INTO THE GROUND

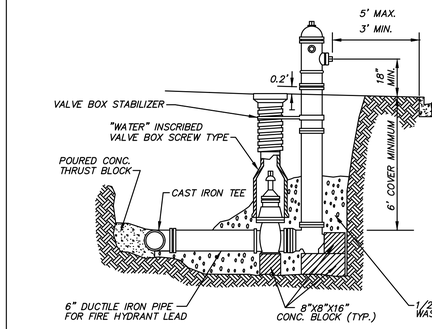


SILT FENCE DETAIL

NOTES:
1. STRAW BALES MUST BE MAINTAINED ON A REGULAR BASIS.
2. EROSION CONTROL TO BE INSTALLED PRIOR TO THE START OF CONSTRUCTION.
3. THE SILT FENCES SHALL BE MAINTAINED WEEKLY AND AFTER EACH RAINFALL FOR THE ENTIRE DURATION OF CONSTRUCTION.
4. ALL EROSION CONTROL MUST FOLLOW THE ILLINOIS URBAN MANUAL.

EROSION CONTROL DETAIL

SCALE	NONE	NO.	REVISIONS	BY	DATE
DATE	5-25-05	1.	MISC UPDATES	SW	2/10
DRAFTER	SLW				
VILLAGE OF HOFFMAN ESTATES			FILE NAME:		SHEET NO.
TRANSPORTATION & ENGINEERING DIVISION			EROSION.DWG		1 OF 1



NOTES

1. HYDRANTS TO BE MUELLER A-423, OR APPROVED EQUAL, CONFORMING TO AWWA C-502. COLOR RED, WITH BREAK AWAY FLANGE IN LOCATIONS SHOWN ON THE PLANS.
2. HYDRANTS SHALL BE A MINIMUM DISTANCE OF 3' FROM BACK OF CURB AND 1'- 6" FROM SIDEWALK.
3. MEGA-LUGS CAN BE USED IN LIEU OF THRUST BLOCKS.
4. PRAIRIE STONE BUSINESS PARK HYDRANTS SHALL BE GREEN WITH SILVER CAPS. GREEN PAINT SHALL BE ZH-G4441, SILVER PAINT SHALL BE AX1440-SWO.

NOTE: THE FIRE HYDRANT SHALL UTILIZE POLY WRAP AND COPPER TRACER WIRE.

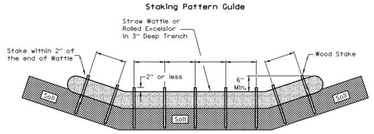
FIRE HYDRANT

FIRE HYDRANT DETAIL

SCALE	NONE	NO.	REVISIONS	BY	DATE
DATE	5-25-05	1.	MISC UPDATES	SW	2/10
DRAFTER	SLW				
VILLAGE OF HOFFMAN ESTATES			FILE NAME:		SHEET NO.
TRANSPORTATION & ENGINEERING DIVISION			FRHYDRNT.DWG		1 OF 1

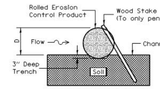
(DC) ROLLED EROSION CONTROL PRODUCTS

Staking Pattern Guide

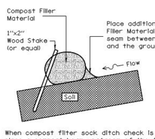


Notes:
1. Overlap minimum is the diameter of the roll.
2. 4' spacing for wattles.
3. 2' spacing for rolled excelsior.
4. Or space according to manufacturer's specifications.

Stake Detail



Compost Filter Sock Detail

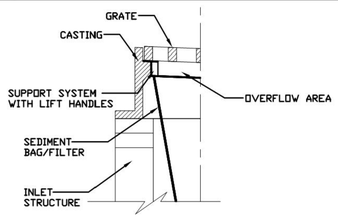


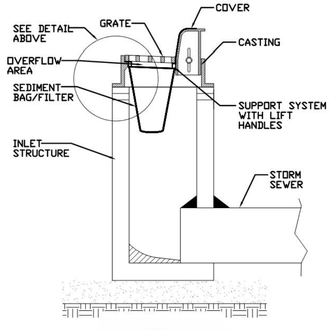
When compost filter sock ditch check is used, place a compost berm upstream of the filter sock (see IUM 805). A trench is not required.

Notes:
1. Drawings are not to scale.
2. Ends of wattles or rolled excelsior shall be turned at least 6" upslope.
3. Recommended stakes are 1 1/8" wide x 1 1/8" thick x 30" long.
4. Stakes shall not extend above the straw wattle more than 2".
5. Spacing: The toe of the upstream ditch check shall create a horizontal line with the top of the downstream ditch check.
6. When compost filter sock ditch check is used, place a compost berm upstream of the filter sock (see IUM 805). A trench is not required.

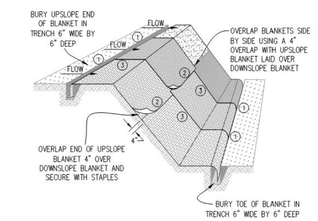
REFERENCE		STANDARD DWG. NO.
Project		
Designed ____ Date ____		IUM-514
Checked ____ Date ____		SHEET 1 OF 1
Approved ____ Date ____		DATE 8-19-11

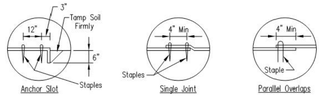
(IP) (FB) INLET PROTECTION - PAVED AREAS DROP-IN PROTECTION



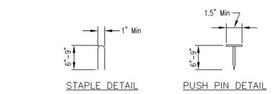


REFERENCE		STANDARD DWG. NO.
Project		
Designed ____ Date ____		IUM-561D
Checked ____ Date ____		SHEET 1 OF 1
Approved ____ Date ____		DATE 01-11-11





DETAIL 1 DETAIL 2 DETAIL 3



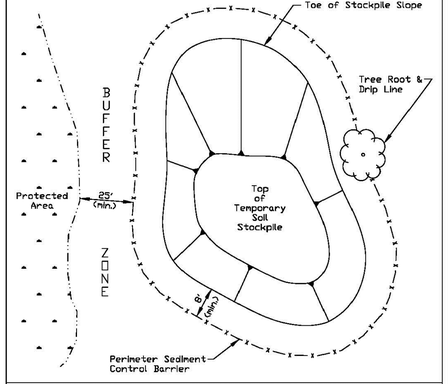
STAPLE DETAIL PUSH PIN DETAIL

NOTES:
1. Staples shall be placed in a diamond pattern at 2 per s.y. for stiched blankets. Non-stiched shall use 4 staples per s.y. of material. This equates to 200 staples with stiched blanket and 400 stapels with non-stiched blanket per 100 s.y. of material.
2. Staple or push pin lengths shall be selected based on soil type and conditions. (minimum staple length is 6")
3. Erosion control material shall be placed in contact with the soil over a prepared seedbed.
4. All anchor slots shall be stapled at approximately 12" intervals.

Date	Description
11/08	Drawn S. JOHNSON

(EB) EROSION CONTROL BLANKET INSTALLATION DETAILS

TEMPORARY SOIL STOCKPILE DETAIL



NOTES:
1. Stockpile slopes should be based on angle of repose of the soil material to avoid potential sloughing of the slope.
2. Soil stockpile to be stabilized in accordance with practical standards.
3. Do not locate stockpile within overland drainage flow path, designated floodways, drip line or over the root crown of adjacent trees.
4. Provisions for sediment control practices may be required along haul roads and entrance/exit locations for access the soil stockpile that can create flow path for stormwater runoff.
5. Installation of benches, terraces, or slope interrupters should be considered.
6. Avoid building soil stockpiles on impervious surfaces.
7. Linlear sediment trap surrounding the stockpile base may be used to control sediment.

REFERENCE		STANDARD DWG. NO.
Project		
Designed ____ Date ____		IUM-627
Checked ____ Date ____		SHEET 1 OF 1
Approved ____ Date ____		DATE JANUARY 2017

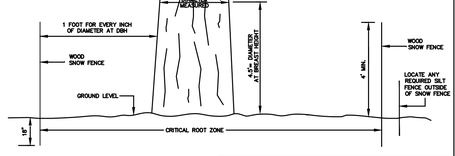
TREE PROTECTION FENCING SHALL CONSIST OF WOODEN SNOW FENCE SECURED TO METAL POSTS AT A MAXIMUM OF 8' INTERVALS. EROSION CONTROL FENCING IN CONJUNCTION WITH TREE PROTECTION FENCING MUST NOT BE TRENCHED INTO THE GROUND. AN ALTERNATE VILLAGE APPROVED METHOD MUST BE UTILIZED. AT A MINIMUM, SIGNS WHICH ARE LEGIBLE AT 10 FEET SHALL BE POSTED AND MAINTAINED AT INTERVALS NO LESS THAN 30 FT. WHICH CLEARLY STATE:
"TREE PROTECTION AREA. DO NOT ENTER.
DO NOT MOVE OR ALTER FENCE.
VIOLATION SUBJECT TO FINE OR WORK STOPPAGE."

THE VILLAGE MAY, AT ITS OPTION, INSTALL THE FENCING UTILIZING FUNDS DEPOSITED WITH THE VILLAGE BY THE DEVELOPER FOR THAT PURPOSE. ALL TREE PROTECTION FENCING MUST BE INSTALLED AND MAINTAINED PRIOR TO ANY CONSTRUCTION AS APPROVED BY THE VILLAGE AS PART OF THE APPROVAL PROCESS. IN NO CASE SHALL TREE PROTECTION FENCING BE REMOVED, BREACHED, TEMPORARILY REMOVED, ALTERED, OR RELOCATED WITHOUT WRITTEN AUTHORIZATION FROM THE DEPARTMENT OF COMMUNITY DEVELOPMENT OF THE VILLAGE.

THE REMOVAL, TEMPORARY REMOVAL, ALTERATION OR RELOCATION OF AN INSTALLED TREE PROTECTION FENCE WITHOUT WRITTEN AUTHORIZATION FROM THE DEPARTMENT OF COMMUNITY DEVELOPMENT OF THE VILLAGE SHALL INCUR A PENALTY OF $10,000 PER OCCURRENCE. THE DEVELOPER/BUILDER SHALL BE RESPONSIBLE FOR PAYING THIS PENALTY.

ENTERING A TREE PRESERVATION AREA THAT WAS REQUIRED TO BE FENCED SHALL RESULT IN AN ADDITIONAL PENALTY OF $50 PER DIAMETER INCH FOR ANY TREE THAT IS DAMAGED IN THE OPINION OF THE VILLAGE, INCLUDING, BUT NOT LIMITED TO, GRADING, TRENCHING, LIMB OR BARK REMOVAL, STORAGE OF MATERIALS OR PARKING OF VEHICLES. THE COST OF ANY NECESSARY REMEDIAL TREE CARE ACTION, IN THE OPINION OF THE VILLAGE, SHALL BE THE RESPONSIBILITY OF THE BUILDER/DEVELOPER.

NOTE:
INSTALL & MAINTAIN 4' TALL WOODEN SNOW FENCE SECURED TO METAL POSTS AT A MAXIMUM OF 8' INTERVALS. FENCE TO BE LOCATED AT A DISTANCE FROM TRUNK EQUAL TO 1 FOOT FOR EVERY INCH OF DIAMETER MEASURED AT DBH (DIAMETER AT BREAST HEIGHT, 4.5' FROM GROUND LEVEL), AS SHOWN ON THE APPROVED SITE PLAN.



NOTE:
REFER TO THE VILLAGE OF HOFFMAN ESTATES' SUBDIVISION CODE SECTION 10-4-7 FOR FURTHER TREE PRESERVATION STANDARDS.

TREE PROTECTION DETAIL

SCALE	NONE	NO.	REVISIONS	BY	DATE
DATE	5-25-05	1.	MISC UPDATES	SW	2/10
DRAFTER	SLW				
VILLAGE OF HOFFMAN ESTATES			FILE NAME:		SHEET NO.
TRANSPORTATION & ENGINEERING DIVISION			TREEPROT.DWG		1 OF 1

TRIA ARCHITECTURE

KITCHEN CONSULTANT: edge associates inc. food service design (P) 855.962.4422

CIVIL CONSULTANT: HRGreen (P) 815.385.1778

LANDSCAPE CONSULTANT: JSD (P) 312.644.3379

STRUCTURAL CONSULTANT: Larson Engineering, Inc. (P) 630.357.0940

VILLAGE OF HOFFMAN ESTATES
VILLAGE GREEN CONCESSIONS
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

DATE	REVISION

PROJECT NUMBER: 191320.01
PROJECT MANAGER: TMR
DRAWN BY: ERN

ISSUED FOR BID & PERMIT: 09/05/2024

EROSION CONTROL DETAILS

NOT FOR CONSTRUCTION

C3.02

A. REFERENCED SPECIFICATIONS

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE FOLLOWING, EXCEPT AS MODIFIED HEREIN OR ON THE PLANS:
   * STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT SS) FOR ALL IMPROVEMENTS EXCEPT SANITARY SEWER AND WATER MAIN CONSTRUCTION;
   * STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION (SSWS) FOR SANITARY SEWER AND WATER MAIN CONSTRUCTION;
   * VILLAGE OF _____ MUNICIPAL CODE;
   * THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (MWRD) WATERSHED MANAGEMENT ORDINANCE AND TECHNICAL GUIDANCE MANUAL;
   * IN CASE OF CONFLICT BETWEEN THE APPLICABLE ORDINANCES NOTED, THE MORE STRINGENT SHALL TAKE PRECEDENCE AND SHALL CONTROL ALL CONSTRUCTION.

B. NOTIFICATIONS

1. THE MWRD LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK (CALL 708-588-4055 OR SEND EMAIL NOTIFICATION WITH PROJECT NAME, LOCATION AND PERMIT NUMBER TO WMOJOBSTART@MWRD.ORG).

2. THE VILLAGE OF _____ ENGINEERING DEPARTMENT AND PUBLIC MUST BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION AND PRIOR TO EACH PHASE OF WORK. CONTRACTOR SHALL DETERMINE ITEMS REQUIRING INSPECTION PRIOR TO START OF CONSTRUCTION OR EACH WORK PHASE.

3. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION FOR THE EXACT LOCATIONS OF UTILITIES AND FOR THEIR PROTECTION DURING CONSTRUCTION. IF EXISTING UTILITIES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, IMMEDIATELY NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED. CALL J.U.L.I.E. AT 1-800-892-0123.

C. GENERAL NOTES

1. ALL ELEVATIONS SHOWN ON PLANS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). CONVERSION FACTOR IS _____ FT.

2. MWRD, THE MUNICIPALITY AND THE OWNER OR OWNER'S REPRESENTATIVE SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION IMPROVEMENTS.

3. THE CONTRACTOR(S) SHALL INDEMNIFY THE OWNER, ENGINEER, MUNICIPALITY, MWRD, AND THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, OR TESTING OF THIS WORK ON THE PROJECT.

4. THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY MWRD AND THE MUNICIPALITY UNLESS CHANGES ARE APPROVED BY MWRD, THE MUNICIPALITY, OR AUTHORIZED AGENT. THE CONSTRUCTION DETAILS, AS PRESENTED ON THE PLANS, MUST BE FOLLOWED. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED ON THE IMPROVEMENTS INDICATED ON THE PLANS.

5. THE LOCATION OF VARIOUS UNDERGROUND UTILITIES WHICH ARE SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND REPRESENT THE BEST KNOWLEDGE OF THE ENGINEER. VERIFY LOCATIONS AND ELEVATIONS PRIOR TO BEGINNING THE CONSTRUCTION OPERATIONS.

6. ANY EXISTING PAVEMENT, SIDEWALK, DRIVEWAY, ETC., DAMAGED DURING CONSTRUCTION OPERATIONS AND NOT CALLED FOR TO BE REMOVED SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.

7. MATERIAL AND COMPACTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPALITY, MWRD, AND OWNER.

8. THE UNDERGROUND CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS TO NOTIFY ALL INSPECTION AGENCIES.

9. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS DISTURBED DURING CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO FINAL INSPECTION.

10. RECORD DRAWINGS SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER AS SOON AS UNDERGROUND IMPROVEMENTS ARE COMPLETED. FINAL PAYMENTS TO THE CONTRACTOR SHALL BE HELD UNTIL THEY ARE RECEIVED. ANY CHANGES IN LENGTH, LOCATION OR ALIGNMENT SHALL BE SHOWN IN RED. ALL WYES OR BENDS SHALL BE LOCATED FROM THE DOWNSTREAM MANHOLE. ALL VALVES, B-BOXES, TEES OR BENDS SHALL BE TIED TO A FIRE HYDRANT.

D. SANITARY SEWER

1. THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY POLLUTED WATER, SUCH AS GROUND AND SURFACE WATER, FROM ENTERING THE EXISTING SANITARY SEWERS.

2. A WATER-TIGHT PLUG SHALL BE INSTALLED IN THE DOWNSTREAM SEWER PIPE AT THE POINT OF SEWER CONNECTION PRIOR TO COMMENCING ANY SEWER CONSTRUCTION. THE PLUG SHALL REMAIN IN PLACE UNTIL REMOVAL IS AUTHORIZED BY THE MUNICIPALITY AND/OR MWRD AFTER THE SEWERS HAVE BEEN TESTED AND ACCEPTED.

3. DISCHARGING ANY UNPOLLUTED WATER INTO THE SANITARY SEWER SYSTEM FOR THE PURPOSE OF SEWER FLUSHING OF LINES FOR THE DEFLECTION TEST SHALL BE PROHIBITED WITHOUT PRIOR APPROVAL FROM THE MUNICIPALITY OR MWRD.

4. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION).

5. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.

6. ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.

7. ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO THE FOLLOWING:

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
VITRIFIED CLAY PIPE	ASTM C-700	ASTM C-425
REINFORCED CONCRETE SEWER PIPE	ASTM C-76	ASTM C-443
CAST IRON SOIL PIPE	ASTM A-74	ASTM C-564
DUCTILE IRON PIPE	ANSI A21.51	ANSI A21.11
POLYVINYL CHLORIDE (PVC) PIPE		
6-INCH TO 15-INCH DIAMETER SDR 26	ASTM D-3034	ASTM D-3212
18-INCH TO 27-INCH DIAMETER F/DY=46	ASTM F-679	ASTM D-3212
HIGH DENSITY POLYETHYLENE (HDPE)	ASTM D-3350 ASTM D-3035	ASTM D-3261,F-2620 (HEAT FUSION) ASTM D-3212,F-477 (GASKETED)
WATER MAIN QUALITY PVC		
4-INCH TO 36-INCH	ASTM D-2241	ASTM D-3139
4-INCH TO 12-INCH	AWWA C900	ASTM D-3139
14-INCH TO 48-INCH	AWWA C905	ASTM D-3139

THE FOLLOWING MATERIALS ARE ALLOWED ON A QUALIFIED BASIS SUBJECT TO DISTRICT REVIEW AND APPROVAL PRIOR TO PERMIT ISSUANCE. A SPECIAL CONDITION WILL BE ADDED TO THE PERMIT WHEN THE PIPE MATERIAL BELOW IS USED FOR SEWER CONSTRUCTION OR A CONNECTION IS MADE.

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
POLYPROPYLENE (PP) PIPE		
12-INCH TO 24-INCH DOUBLE WALL	ASTM F-2736	D-3212, F-477
30-INCH TO 60-INCH TRIPLE WALL	ASTM F-2764	D3212, F-477

8. ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), REQUIRES STONE BEDDING WITH STONE ¼ " TO 1" IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO ⅛ THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES. MATERIAL SHALL BE CA-7, CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF THE PIPE WHEN USING PVC.

9. NON-SHEAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR PIPE MATERIALS.

10. ALL MANHOLES SHALL BE PROVIDED WITH BOLTED, WATERTIGHT COVERS. SANITARY LIDS SHALL BE CONSTRUCTED WITH A CONCEALED PICKHOLE AND WATERTIGHT GASKET WITH THE WORD "SANITARY" CAST INTO THE LID.

11. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:
    a) A CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SHEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUBWYE SADDLE OR HUB-TEE SADDLE.
    b) REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
    c) WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING "BAND SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.

12. WHENEVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATERMAINS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATER MAIN, THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN STANDARDS OR IT SHALL BE ENCASED WITH A WATER MAIN QUALITY CARRIER PIPE WITH THE ENDS SEALED.

13. ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.

14. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.

15. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE PRECAST "RUBBER BOOTS" THAT CONFORM TO ASTM C-923 FOR ALL PIPE CONNECTIONS. PRECAST SECTIONS SHALL CONSIST OF MODIFIED GROOVE TONGUE AND RUBBER GASKET TYPE JOINTS.

16. ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUG.

17. EXCEPT FOR FOUNDATION/FOOTING DRAINS PROVIDED TO PROTECT BUILDINGS, OR PERFORATED PIPES ASSOCIATED WITH VOLUME CONTROL FACILITIES, DRAIN TILES/FIELD TILES/UNDERDRAINS/PERFORATED PIPES ARE NOT ALLOWED TO BE CONNECTED TO OR TRIBUTARY TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS IN COMBINED SEWER AREAS. CONSTRUCTION OF NEW FACILITIES OF THIS TYPE IS PROHIBITED; AND ALL EXISTING DRAIN TILES AND PERFORATED PIPES ENCOUNTERED WITHIN THE PROJECT AREA SHALL BE PLUGGED OR REMOVED, AND SHALL NOT BE CONNECTED TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS.

18. A BACKFLOW PREVENTER IS REQUIRED FOR ALL DETENTION BASINS TRIBUTARY TO COMBINED SEWERS. REQUIRED BACKFLOW PREVENTERS SHALL BE INSPECTED AND EXERCISED ANNUALLY BY THE PROPERTY OWNER TO ENSURE PROPER OPERATION, AND ANY NECESSARY MAINTENANCES SHALL BE PERFORMED TO ENSURE FUNCTIONALITY. IN THE EVENT OF A SEWER SURCHARGE INTO AN OPEN DETENTION BASIN TRIBUTARY TO COMBINED SEWERS, THE PERMITTEE SHALL ENSURE THAT CLEAN UP AND WASH OUT OF SEWAGE TAKES PLACE WITHIN 48 HOURS OF THE STORM EVENT.

E. EROSION AND SEDIMENT CONTROL

1. THE CONTRACTOR SHALL INSTALL THE EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.

2. EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL PRIOR TO HYDROLOGIC DISTURBANCE OF THE SITE.

3. ALL DESIGN CRITERIA, SPECIFICATIONS, AND INSTALLATION OF EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.

4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

5. INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:
   a) UPON COMPLETION OF INITIAL EROSION AND SEDIMENT CONTROL MEASURES, PRIOR TO ANY SOIL DISTURBANCE.
   b) ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.

6. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE CO-PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.

7. A STABILIZED MAT OF CRUSHED STONE MEETING THE STANDARDS OF THE ILLINOIS URBAN MANUAL SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.

8. CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL AND SHALL BE INSTALLED PRIOR TO ANY ON SITE CONSTRUCTION ACTIVITIES INVOLVING CONCRETE.

9. MORTAR WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ADDITION TO CONCRETE WASHOUT FACILITIES FOR ANY BRICK AND MORTAR BUILDING ENVELOPE CONSTRUCTION ACTIVITIES.

10. TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN. VOLUME CONTROL FACILITIES SHALL NOT BE USED AS TEMPORARY SEDIMENT BASINS.

11. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) DAYS.

12. ALL FLOOD PROTECTION AREAS AND VOLUME CONTROL FACILITIES SHALL, AT A MINIMUM, BE PROTECTED WITH A DOUBLE-ROW OF SILT FENCE (OR EQUIVALENT).

13. VOLUME CONTROL FACILITIES SHALL NOT BE CONSTRUCTED UNTIL ALL OF THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.

14. SOIL STOCKPILES SHALL, AT A MINIMUM, BE PROTECTED WITH PERIMETER SEDIMENT CONTROLS. SOIL STOCKPILES SHALL NOT BE PLACED IN FLOOD PROTECTION AREAS OR THEIR BUFFERS.

15. EARTHEN EMBANKMENT SIDE SLOPES SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL BLANKET.

16. STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY APPROPRIATE SEDIMENT CONTROL MEASURES.

17. THE CONTRACTOR SHALL EITHER REMOVE OR REPLACE ANY EXISTING DRAIN TILES AND INCORPORATE THEM INTO THE DRAINAGE PLAN FOR THE DEVELOPMENT. DRAIN TILES CANNOT BE TRIBUTARY TO A SANITARY OR COMBINED SEWER. DRAIN TILES ALLOWED IN COMBINED SEWER AREA FOR GREEN INFRASTRUCTURE PRACTICES.

18. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE SITE INSPECTOR MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.

19. THE CONTRCTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING AND EXCAVATION FOR THE INSTALLATION OF SANITARY SEWERS, STORM SEWERS, WATERMAINS AS WELL AS THEIR SERVICES AND OTHER APPURTENANCES. ANY TRENCH DEWATERING, WHICH CONTAINS SEDIMENT SHALL PASS THROUGH A SEDIMENT SETTLING POND OR EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE. ALTERNATIVES MAY INCLUDE DEWATERING INTO A SUMP PIT, FILTER BAG OR EXISTING VEGETATED UPSLOPE AREA. SEDIMENT LADEN WATERS SHALL NOT BE DISCHARGE TO WATERWAYS, FLOOD PROTECTION AREAS OR THE COMBINED SEWER SYSTEM.

20. ALL PERMANENT EROSION CONTROL PRACTICES SHALL BE INITIATED WITHIN SEVEN (7) DAYS FOLLOWING THE COMPLETION OF SOIL DISTURBING ACTIVITIES.

21. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED ON A YEAR-ROUND BASIS DURING CONSTRUCTION AND ANY PERIODS OF CONSTRUCTION SHUTDOWN UNTIL PERMANENT STABILIZATION IS ACHIEVED.

22. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION.

23. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, SITE INSPECTOR, OR MWRD.

TRIA ARCHITECTURE
KITCHEN CONSULTANT: edge associates inc. food service design (P) 855.962.4422
CIVIL CONSULTANT: HRGreen (P) 815.385.1778
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VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

DATE	REVISION	

PROJECT NUMBER: 191320.01
PROJECT MANAGER: TMR
DRAWN BY: ERN
ISSUED FOR BID & PERMIT: 09/05/2024

MWRD GENERAL NOTES

NOT FOR CONSTRUCTION

C4.00

stainless steel tapping sleeve.

C. Allowable Materials

1. Water Main Pipe

a. All pipes shall be ductile iron pipe conforming to ANSI A21.51 or AWWA C151 with a minimum thickness of Class 52.

b. All pipe shall have a minimum laying length of 18 feet.

c. Pipe joints shall be push-on joints or mechanical joints conforming to AWWA C-111 (ANSI 21.11).

d. All DIP shall be cement-mortar lined in accordance with AWWA C-104 (ANSI A21.4).

e. Alternate pipe materials may be allowed upon review and approval of the Engineering Director.

2. Water Main Fittings

a. All water main fittings shall be ductile iron fittings conforming to AWWA specification C-110 (ANSI 21.10).

b. Fittings shall be cement-lined in accordance with AWWA C-104 (ANSI A21.4).

c. Alternate fitting materials may be allowed upon review and approval of the Engineering Director.

d. All mechanical joint type fittings shall include bolts made of stainless steel.

3. Valves

a. All valves shall be iron body, resilient seated, bronze mounted, nonrising stem gate valves conforming to AWWA C-500. Valves shall be Mueller A-2360 with stainless trim.

Other valves may be allowed upon review and approval of the Engineering Director.

4. Valve Vaults

a. Valve vaults shall consist of precast reinforced concrete sections meeting ASTM C-478 and ASTM C-443 standards.

b. Adjusting rings shall be precast concrete rings. The total number of adjusting rings shall not exceed two for a maximum height of 12 inches.

c. Vault steps shall be polypropylene plastic manufactured by M. A. Industries (PSI-PF) or approved equal.

d. Flexible boots, meeting ASTM C-923, are required at all pipe openings.

e. The placing of valve vaults in paved areas shall be discouraged. In the event that it is unavoidable, all structures in PCC concrete shall be boxed out with 3/4" expansion material.

f. Frame and grates for valve vaults shall be Neenah R-1713 with a Type B lid, East Jordan 1050Z1 with Type A lid or approved equal, embossed with the "Village of Hoffman Estates" and "Water" and have concealed pick holes.

5. Fire Hydrants

a. Fire hydrants shall be dry barrel type with breakaway type flange and auxiliary gate valves and shall conform to AWWA C-502.

b. Hydrants shall have two (2), two and one-half inch (2½") hose nozzles and one (1), four and one-half (4½") National standard pumper nozzle. Hose threads shall be the standard NSHT.

c. Hydrants shall have a main valve opening of five and one-quarter inches (5¼") with a 6" auxiliary valve with mechanical joints. The auxiliary valve shall have a two-piece valve box and plastic valve box stabilizer.

d. Hydrants shall be painted red.

e. Hydrants shall be Mueller A-423. Other hydrants may be allowed upon review and approval of the Engineering Director.

f. The maximum length for a fire hydrant lead is 50 feet.

6. Service Connections

a. All water service lines less than three-inch (3") diameter shall be constructed of Type K copper with flared fittings outside of the building foundation. Service lines three-inches (3") and larger shall

be ductile iron conforming to allowable water main material specifications.

b. Service connection to the water main for services less than three-inch (3") diameter shall be with a Mueller double strap bronze service clamp and a corporation stop Mueller H-15020 or approved equal. Direct taps to the water main must be approved by the Director of Engineering.

Service connections to the water main for services three-inches (3") or larger shall be with a ductile iron fitting conforming to water main fitting specifications. Services three-inches (3") and larger shall have gate valves conforming to water main gate valve specifications. No tapping saddles are permitted on existing AC pipe for any size.

c. Each service less than a three-inch (3") diameter shall have a curb stop Mueller H-15151 and a curb box Mueller H-10302 or approved equal. All services three-inches and larger shall be located in a valve vault.

d. During construction, the contractor shall clearly identify the terminus of each service by placing a 6' long blue tipped 2" X 4" post vertically 2' in the ground over the end of the service.

e. B-boxes shall not be allowed in paved areas including streets, sidewalks, driveways, etc.

7. Bedding and Trench Backfill

Aggregate for bedding and for trench backfill shall conform to requirements of the Trench Backfill Detail and Standard Specifications. There will be no exceptions, tunnel rock or crushed concrete are not allowed.

D. Construction Requirements

1. Before construction can begin, an approved IEPA permit must be received by the Village of Hoffman Estates.

2. Water mains and appurtenances shall be installed in conformance with AWWA C-600, the material manufacturer's recommendations, the Standard Specifications for Water and Sewer Main Construction in Illinois and these requirements. In case of conflicts between the specifications, the more stringent specification shall apply.

3. Trench backfill shall be required in all locations where the water main trench is under or within two feet (2') of existing or proposed pavements including, but not limited to curb and gutter streets, sidewalks, and driveways. The trench backfill shall be mechanically compacted to not less than 95% of the

standard laboratory density.

4. Excavation and backfill for water mains shall conform to the Standard Specifications for Water and Sewer Main Construction in Illinois, latest edition.

5. Unless otherwise shown on the plans or indicated in the special provisions, all pipe shall be laid to a minimum depth of six (6) feet and a maximum of eight (8) feet as measured from the proposed ground surface or established grade to the top of the barrel of the pipe.

6. Sheeting and bracing shall be placed in the ditch, as may be necessary, for the safety of the work and public, for protection of the workers adjacent properties, or structures and for the proper installation of the work. Sheeting and/or bracing shall be progressively removed as the backfill is placed in such a manner as to prevent the caving in of the sides of the trench or excavation, and to prevent damage to the work.

7. The trench, unless otherwise specified, shall have a flat bottom conforming to the proposed grade to which the pipe is laid. The pipe shall be laid on four inches of crushed stone placed on sound soil cut true and even so that the barrel of the pipe will have a bearing for its full length. Bell holes shall be excavated for joints. Any part of the trench excavated below grade shall be replaced with material approved by the Engineering Director and thoroughly compacted.

8. Where water is encountered in the trench, it shall be removed during pipe laying and jointing operations. Trench water shall not be allowed to enter the pipe at any time.

9. Where corrosive soils are encountered which may be damaging to the pipe, a polyethylene wrapping, bonding or cathodic protection may be required by the Engineering Director.

10. All connections to the existing water system shall be made under full water service pressure unless otherwise approved by the Engineering Director.

11. Long radius curves, either horizontal or vertical, may be laid with standard pipe by deflections at the joints.

Maximum deflections at the pipe joints and laying radius for various pipe lengths are as found in the following standards:

Ductile Cast Iron Pipe Mechanical Joints AWWA C600.
Ductile Iron Pipe Push-On Joints AWWA C600.

When rubber gasketed pipe is laid on a curve, the pipe shall be jointed in a

straight alignment and then moved into position. Trenches shall be made wider on curves for this purpose.

12. All valves shall be attached to the water main with a flange connector to facilitate removal of the valve. The valve vault shall be of sufficient size to accommodate the valve and connector.

13. Fire hydrants shall have a minimum of one-half (½) cubic yard of one inch (1") to one and one-half inch (1½") washed gravel placed at the base of the hydrant to provide drainage at the barrel.

The breakline flange of hydrants shall be 0.2' above finished ground elevation. Hydrants in street rights-of-way shall be placed not less than three feet (3'), nor more than five feet (5'), from the back of curb and at least 1½' from the sidewalk.

Hydrants shall not be placed closer than 30' to the building.

14. Water service lines shall have a minimum cover of five feet (5').

Copper service lines shall be one continuous length of pipe from the water main to the B-box.

Curb stops and curb boxes shall be located in public rights-of-way. Such curb stops and boxes shall not be located in any paved areas unless approved by the Engineering Director.

15. Tracer wire (12 gauge copper) with blue insulation shall be installed on the water main continuous run length from valve to valve with accessible termination points at all valves and fire hydrants.

E. Material Testing

1. Pressure Test

The contractor shall pressure test the water main pipeline at all valved sections. The Engineering Director shall be notified of the time of the test a minimum of twenty-four (24) hours prior to the test. Pressure testing the pipeline using compressed air will not be allowed. The test shall be made by closing valves or by tied end caps and/or plugs and filling the pipe slowly with water.

The test shall consist of holding a minimum hydrostatic pressure on the pipe of 150 pounds per square inch for a period of two hours based at the lowest elevation of the test section. A two-pound test gauge with a minimum capacity of 160 pounds will be required. It is recommended that the initial pressure be 3 to 5 PSI above the minimum required pressure due to possible

air in the line. The test shall begin and end at the same pressure. The water necessary to bring to initial pressure shall be measured by a means satisfactory to the engineer. The leakage shall be considered the amount of water entering the pipeline during the test period. The total allowable leakage shall meet the requirements of AWWA C600-82.

Any defective pipe, fittings, valves, or hydrants shall be replaced with new sections. All fire hydrant auxiliary valves shall be open throughout the test in the test section. At the conclusion of the test, a fire hydrant shall be opened to verify that both the pressure drops on the pressure gauge, and that the fire hydrant auxiliary valves are open. The contractor shall provide all of the equipment necessary for the testing.

All testing shall be done prior to the installation of service lines. Suitable means shall be provided for determining the quantity of water lost by leakage under the specified test pressure.

ALLOWABLE LEAKAGE PER 1000 FT OF PIPELINE TABLE* - *gph*

Avg. Test Pressure *psi*	Nominal Pipe Diameter – *in.*												
	6	8	10	12	14	16	18	20	24	30	36	42	48
250	0.71	0.95	1.19	1.42	1.66	1.90	2.14	2.37	2.85	3.56	4.27	4.99	5.70
225	0.68	0.90	1.13	1.35	1.58	1.80	2.03	2.25	2.70	3.38	4.05	4.73	5.41
200	0.64	0.85	1.06	1.28	1.48	1.70	1.91	2.12	2.55	3.19	3.82	4.46	5.09
175	0.59	0.80	0.99	1.19	1.39	1.59	1.79	1.98	2.38	2.98	3.58	4.17	4.77
150	0.55	0.74	0.92	1.10	1.29	1.47	1.66	1.84	2.21	2.76	3.31	3.86	4.41
125	0.50	0.67	0.84	1.01	1.18	1.34	1.51	1.68	2.01	2.52	3.02	3.53	4.03
100	0.45	0.60	0.75	0.90	1.05	1.20	1.35	1.50	1.80	2.25	2.70	3.15	3.60

* For pipe with 18-ft nominal lengths. To obtain the recommended allowable leakage for pipe with 20-ft nominal lengths, multiply the leakage calculated from the table by 0.9. If the pipeline under test contains sections of various lengths, the allowable leakage will be the sum of the computed leakage for each size.

Allowable leakage shall not be greater than that computed as follows:

$$\frac{\text{Footage } X \text{ Allowable Leakage } X \text{ 2 hours}}{1000 \text{ ft}} = \text{Gallon } X 128 \text{ oz/gal} = \text{Total Allowable Leakage in oz}$$

Leakage is defined as the quantity of water required to be supplied to the newly laid pipe necessary to maintain the 150 pound test pressure.

All pressure tests shall be done in the presence of the Engineering Director.

When deemed impractical by Engineering or Public Works to test the new water main installations between existing valves, a static pressure test using system pressure shall be applied from existing valve to existing valve for 24 hours. Excavation will be kept open and barricaded to observe any leakage.

2. Preliminary Flushing

Prior to chlorination, the water main shall be flushed as thoroughly as possible with the water pressure and outlets available. Flushing shall be done after the pressure test is made. It must be understood that such flushing removes only the lighter solids and cannot be relied upon to remove heavy material allowed to get into the main during pipe installation. If no hydrant is installed at the end of the main, a tap should be provided large enough to effect a velocity in the main of at least 2.5 feet per second.

3. Disinfection

a. The point of application of the chlorinating agent shall be at the beginning of the pipeline extension or any valved section of it and through a corporation stop in the top of the newly laid pipe. The injector for delivering the chlorine-gas into the pipe should be supplied from a tap on the pressure side of the gate valve controlling the flow into the pipeline extension.

b. Water from the existing distribution system or other source of supply shall be controlled so as to flow slowly into the newly laid pipeline during the application of chlorine-gas. The rate of chlorine mixture flow shall be in such proportion to the rate of water entering the pipe that the chlorine applied to the water entering the newly laid pipe shall be at least 50 ppm, or enough to meet the requirements during the retention period. This may require as much as 100 ppm of chlorine in the water left in the line after chlorination.

c. Valves shall be manipulated so that the strong chlorine solution in the line being treated will not flow back into the existing line supplying water.

d. Treated water shall be retained in the pipe long enough to destroy all spore-forming bacteria. This retention period shall be at least twenty-four (24) hours. After the chlorine-treated water has been retained for the required time, and after proper flushing, the chlorine residual at the pipe extremities and at other representative points should be at least 1.0 ppm.

e. In the process of chlorinating newly laid pipe, all valves or other appurtenances shall be operated while the pipeline is filled with a chlorinating agent. Dechlorination may be required before discharging highly chlorinated water into the storm sewer.

f. All water mains shall be disinfected and tested according to the requirements of the "Standards for Disinfecting Water Mains," AWWA C651-86, and shall be performed by an independent firm

exhibiting experience in the methods and techniques of this operation, and shall be done in the presence of the Engineering Director. The Engineering Director shall be notified of the time of disinfection a minimum of twenty-four (24) hours prior to the disinfection.

4. Final Flushing and Testing

Chlorinated water will be flushed from all terminations prior to sampling. Bacteriological samples shall be taken at each connection to the existing water main. In accordance with Section 7.1 of the AWWA Standard "at least one sample shall be collected from the new main and one from each branch. In case of extremely long mains it is desirable that samples be collected along the length of the line as well as at its end." The maximum distance allowed between samples in any situation shall be 1000 feet. All branch connections 3" in diameter or larger, greater than or equal to 20 feet in length including building services, are to be considered branches for application of this rule. Samples should never be taken from an unsterilized hose or from a fire hydrant, because such samples seldom meet current bacteriological standards.

Samples shall be taken by the firm performing the disinfection of the main and in the presence of the Engineering Director. Samples shall be transported iced from the construction site to the IEPA approved laboratory. The laboratory shall be instructed to notify the Engineering Division and the Public Works Department of all unsatisfactory results. Two successive satisfactory samples are required. Successive samples shall be taken at least 24 hours apart.

VI. SANITARY SEWER SYSTEM

A. General

1. Except as otherwise provided herein, no residential, commercial or industrial subdivision or development shall be approved unless it is served by sanitary sewers connected to the Village of Hoffman Estates' sewer system.

2. Any building located within the Village of Hoffman Estates shall have sanitary sewer services connected to the sanitary sewer main line. Any and all expenses incurred to extend said sewer system would be totally at the owner's expense.

3. Before commencing the sewer layout, the developer shall confer with the Village of Hoffman Estates to determine the required size and grades for any trunk sewers traversing the subdivision to fit the Village of Hoffman Estates' available capacities of existing offsite facilities to the MWRD interceptor together with the estimated increment of flow caused by the subdivision or

TRIA ARCHITECTURE
KITCHEN CONSULTANT: edge associates inc. food service design (P) 855.962.4422
CIVIL CONSULTANT: HRGreen (P) 815.385.1778
LANDSCAPE CONSULTANT: JSD (P) 312.644.3379
STRUCTURAL CONSULTANT: Larson Engineering, Inc. (P) 630.357.0940

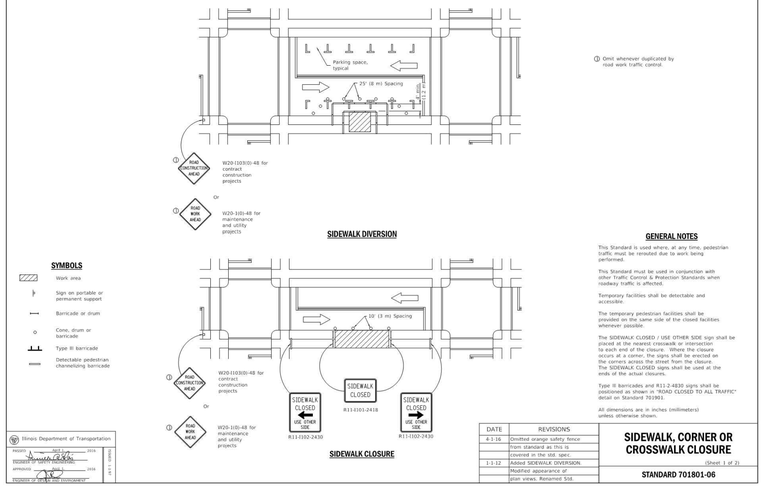
VILLAGE OF HOFFMAN ESTATES
VILLAGE GREEN CONCESSIONS
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

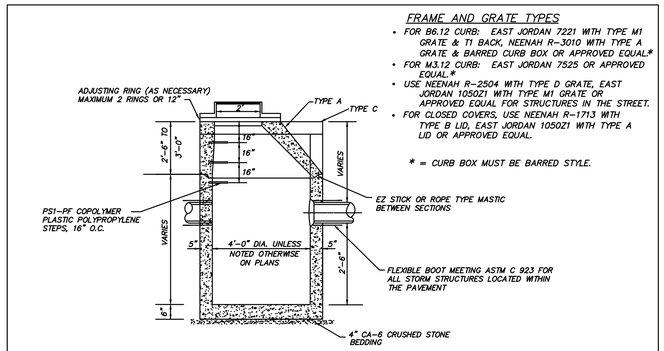
PROJECT NUMBER:	191320.01	REVISION	DATE
PROJECT MANAGER:	TMR		
DRAWN BY:	ERN		
ISSUED FOR BID & PERMIT:	09/05/2024		

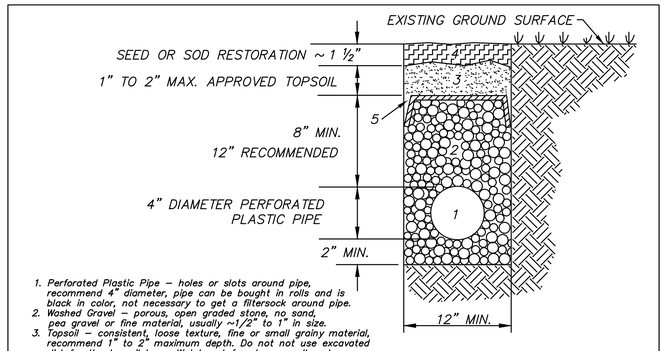
VILLAGE NOTES

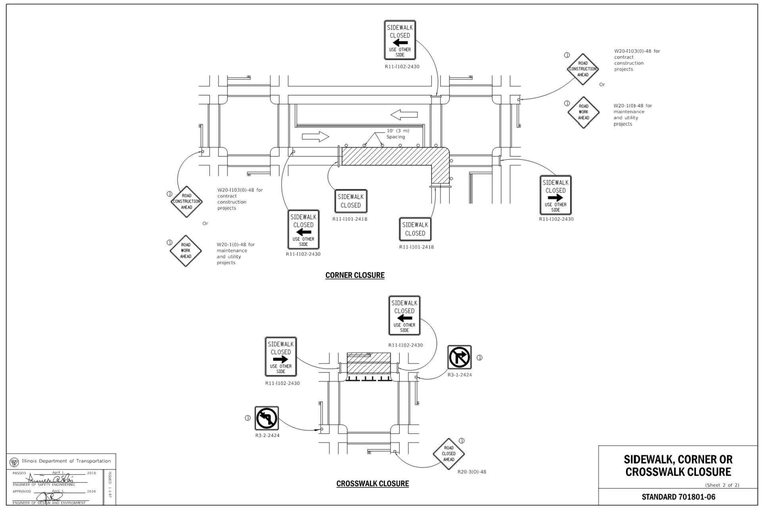
NOT FOR CONSTRUCTION

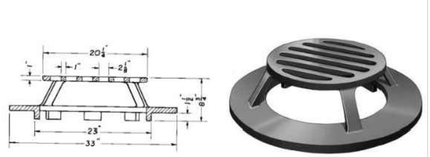
C4.01

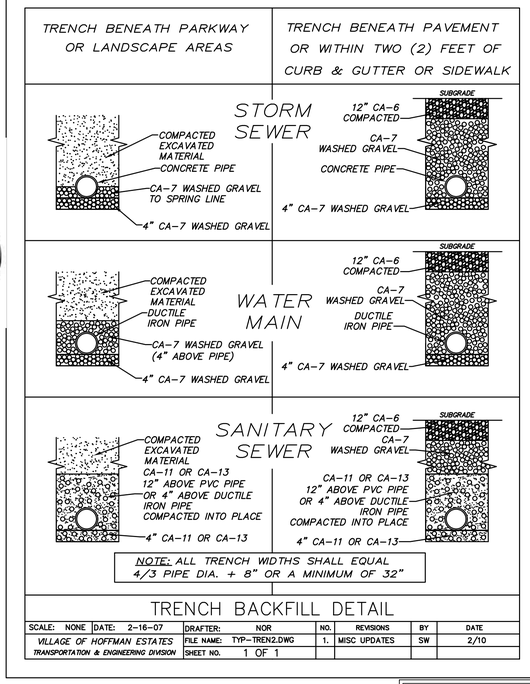


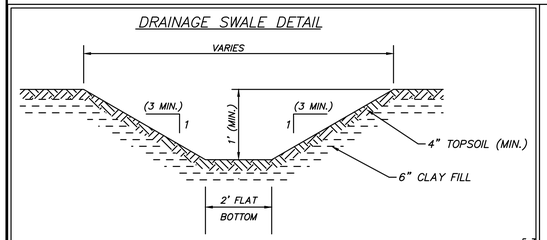


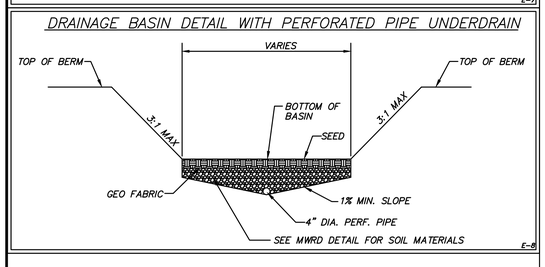


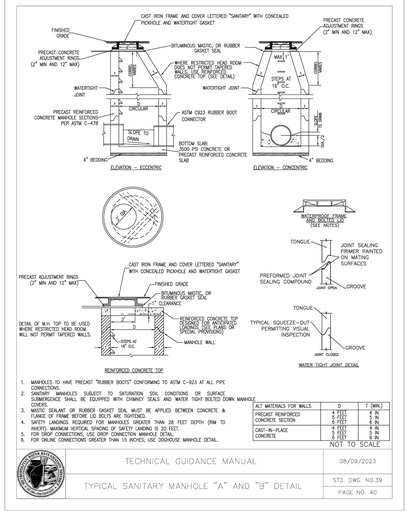


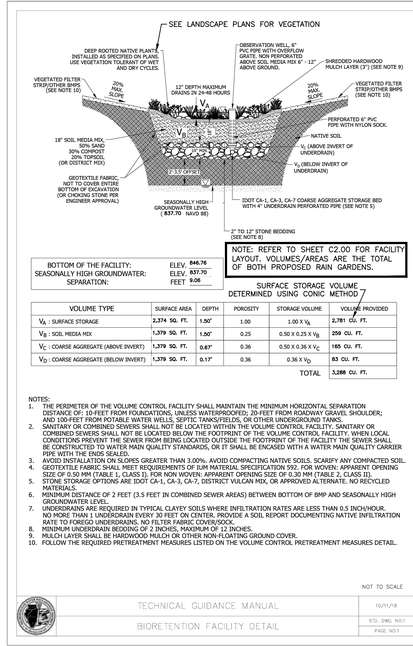


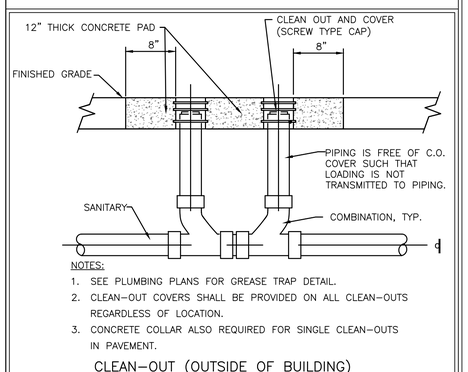


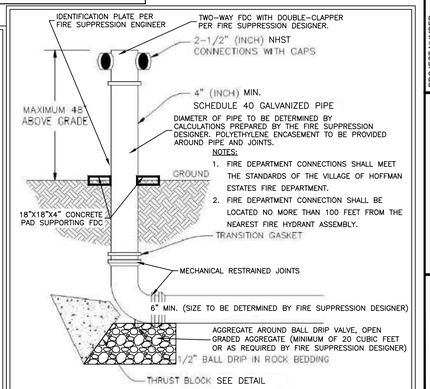












TRIA ARCHITECTURE
KITCHEN CONSULTANT: edge associates inc. food service design (P) 855.962.4422
CIVIL CONSULTANT: HRGreen (P) 815.385.1778
LANDSCAPE CONSULTANT: JSD (P) 312.644.3379
STRUCTURAL CONSULTANT: Larson Engineering, Inc. (P) 630.357.0940

VILLAGE OF HOFFMAN ESTATES
VILLAGE GREEN CONCESSIONS
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

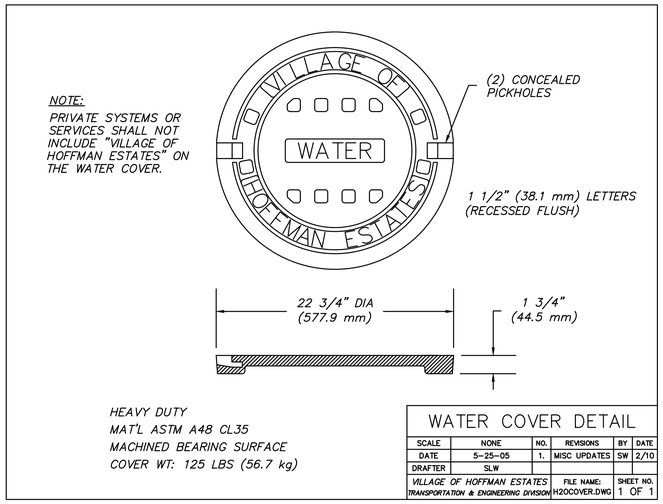
DATE	REVISION

PROJECT NUMBER: 191320.01
PROJECT MANAGER: TMR
DRAWN BY: ERN
ISSUED FOR BID & PERMIT: 09/05/2024

STANDARD DETAILS

NOT FOR CONSTRUCTION

C5.00



WATER COVER DETAIL

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DRAFTER	SLW				
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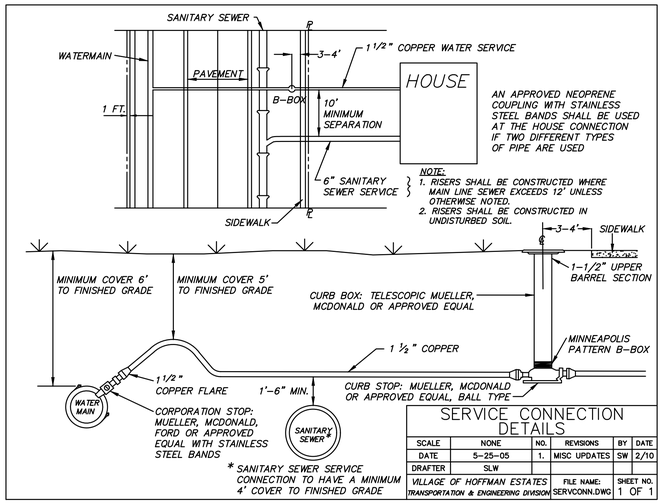

SERVICE CONNECTION DETAILS

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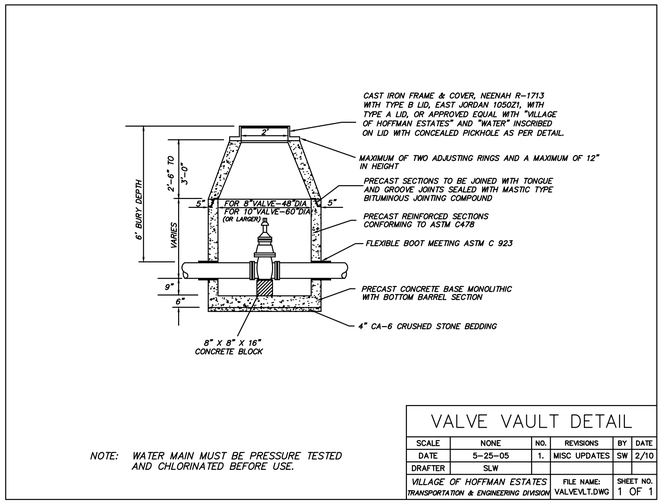

NOTE: WATER MAIN MUST BE PRESSURE TESTED AND CHLORINATED BEFORE USE.

VALVE VAULT DETAIL

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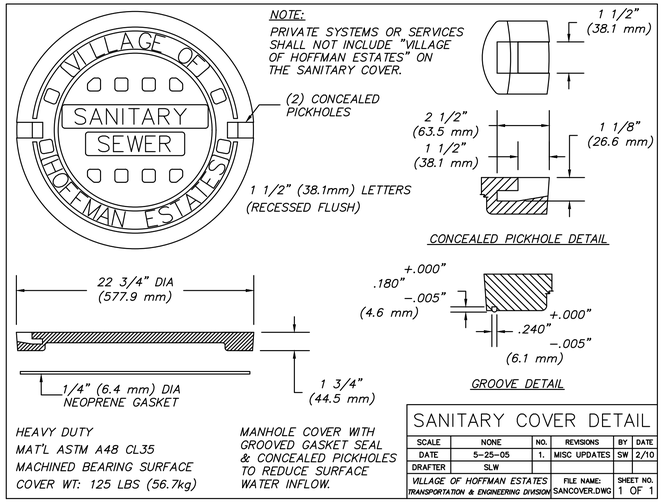

SANITARY COVER DETAIL

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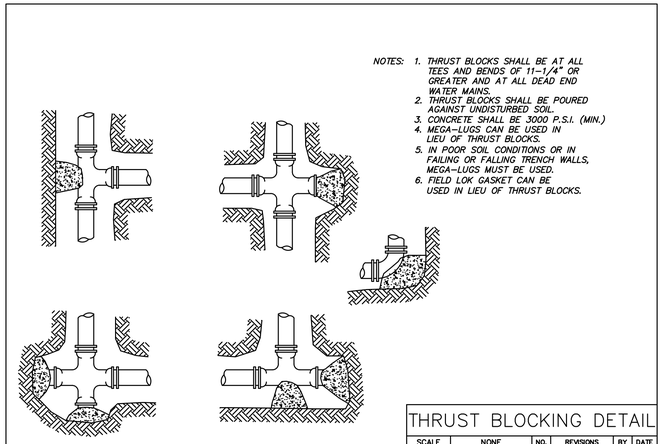

THRUST BLOCKING DETAIL

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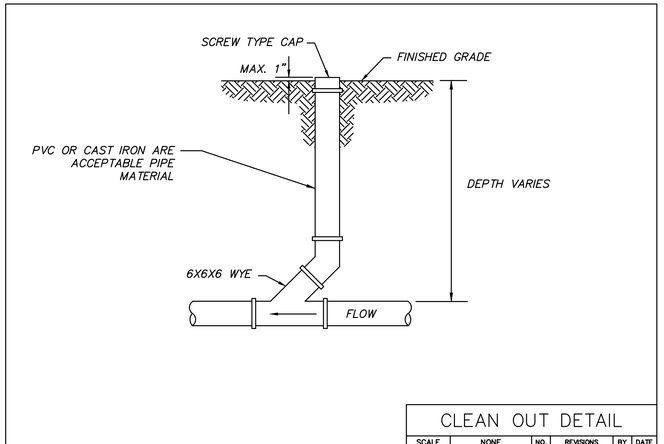

CLEAN OUT DETAIL

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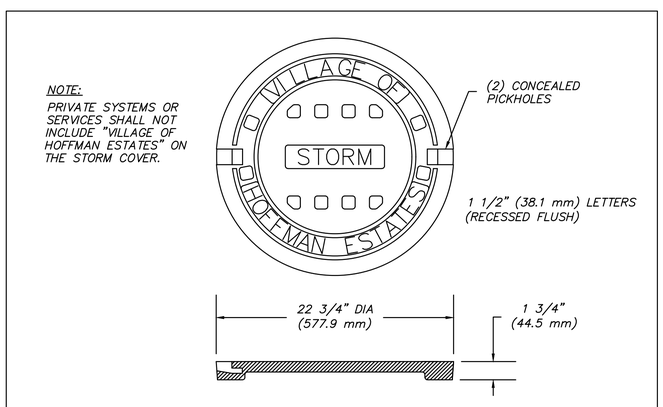

STORM COVER DETAIL

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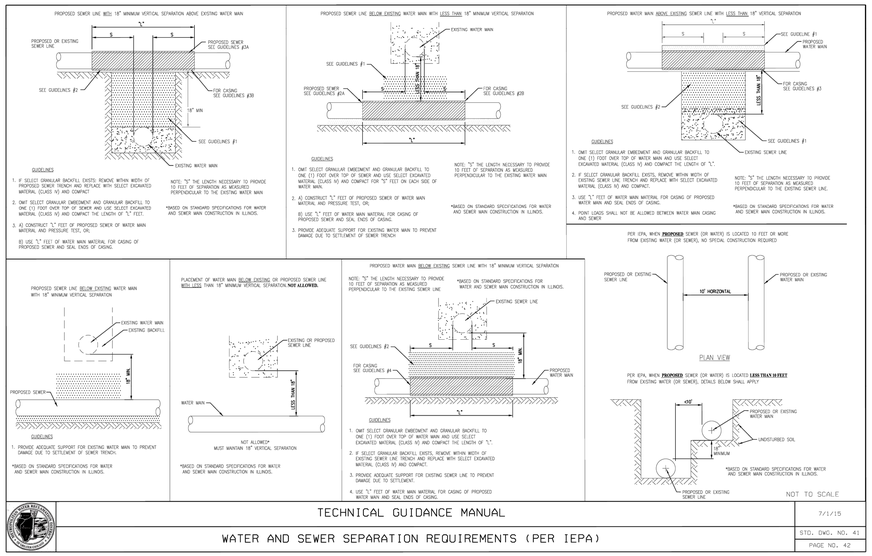


TECHNICAL GUIDANCE MANUAL

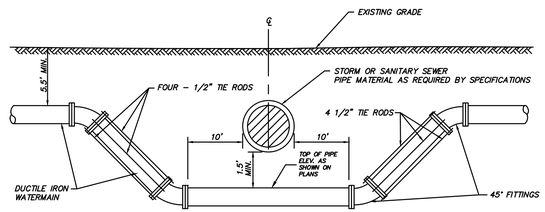
WATER AND SEWER SEPARATION REQUIREMENTS (PER IEPA)

7/1/15

GTD. DWG. NO. 41

PAGE NO. 42

WATER MAIN LOWERING DETAIL



* ALL JOINT FITTINGS ARE TO HAVE MEGALUG JOINT RESTRAINT FASTENERS. W-6

TRIA ARCHITECTURE

KITCHEN CONSULTANT: jsd edge associates inc. food service design (P) 855.962.4422

CIVIL CONSULTANT: HRGreen (P) 815.385.1778

LANDSCAPE CONSULTANT: JSD (P) 312.644.3379

STRUCTURAL CONSULTANT: Larson Engineering, Inc. (P) 630.357.0940

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

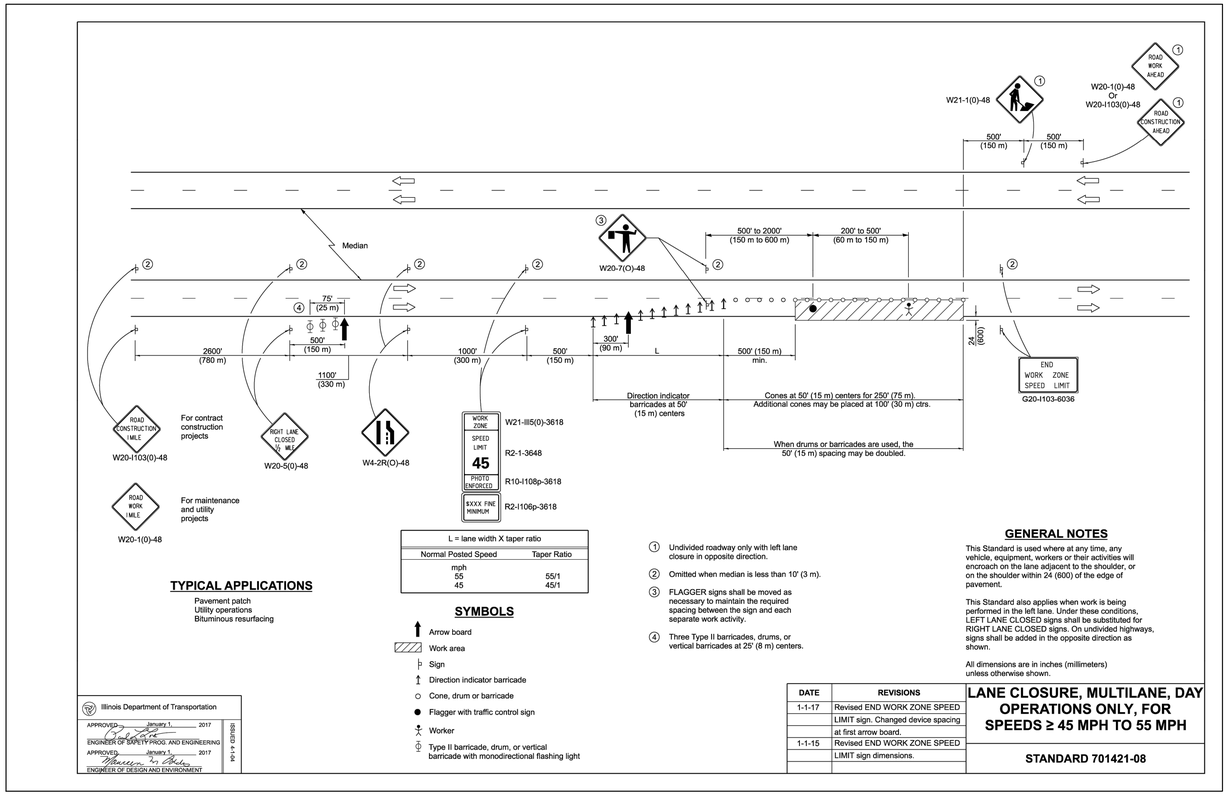
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER:	19132101	REVISION	DATE
PROJECT MANAGER:	TMR		
DRAWN BY:	ERN		
ISSUED FOR BID & PERMIT:	09/05/2024		

STANDARD DETAILS

NOT FOR CONSTRUCTION

C5.01



L = lane width X taper ratio	
Normal Posted Speed	Taper Ratio
mph	
55	55/1
45	45/1

TYPICAL APPLICATIONS

Pavement patch
Utility operations
Bituminous resurfacing

SYMBOLS

- Arrow board
- Work area
- Sign
- Direction indicator barricade
- Cone, drum or barricade
- Flagger with traffic control sign
- Worker
- Type II barricade, drum, or vertical barricade with monodirectional flashing light

1. Undivided roadway only with left lane closure in opposite direction.
2. Omitted when median is less than 10' (3 m).
3. FLAGGER signs shall be moved as necessary to maintain the required spacing between the sign and each separate work activity.
4. Three Type II barricades, drums, or vertical barricades at 25' (8 m) centers.

GENERAL NOTES

This Standard is used where at any time, any vehicle, equipment, workers or their activities will encroach on the lane adjacent to the shoulder, or on the shoulder within 24 (600) of the edge of pavement.

This Standard also applies when work is being performed in the left lane. Under these conditions, LEFT LANE CLOSED signs shall be substituted for RIGHT LANE CLOSED signs. On undivided highways, signs shall be added in the opposite direction as shown.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED January 1, 2017
ENGINEER OF SAFETY, TRAFFIC AND ENGINEERING

APPROVED January 1, 2017
ENGINEER OF DESIGN AND ENVIRONMENT

BDE 801 (D-1-14)

DATE	REVISIONS
1-1-17	Revised END WORK ZONE SPEED
	LIMIT sign. Changed device spacing
	at first arrow board.
1-1-15	Revised END WORK ZONE SPEED
	LIMIT sign dimensions.

LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS ≥ 45 MPH TO 55 MPH

STANDARD 701421-08

TRIA ARCHITECTURE

JSD — LANDSCAPE CONSULTANT: (P) 312.644.3379

edge associates inc. food service design — KITCHEN CONSULTANT: (P) 855.962.4422

Larson Engineering, Inc. — STRUCTURAL CONSULTANT: (P) 630.357.0940

HRGreen — CIVIL CONSULTANT: (P) 815.385.1778

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER: 19132001
PROJECT MANAGER: TMR
DRAWN BY: ERN

DATE	REVISION

ISSUED FOR BID & PERMIT: 09/05/2024

STANDARD DETAILS

NOT FOR CONSTRUCTION

C5.02

TREE PRESERVATION GENERAL NOTES

DURING CONSTRUCTION TAKE ALL REASONABLE STEPS NECESSARY TO PREVENT THE DESTRUCTION OR DAMAGE TO TREES (OTHER THAN THOSE SPECIFIED TO BE REMOVED). INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:

1. NO CONSTRUCTION ACTIVITY, MOVEMENT AND/OR PLACEMENT OF EQUIPMENT OR MATERIAL OR SPOILS STORAGE SHALL BE PERMITTED OUTSIDE THE CONSTRUCTION LIMITS OR WITHIN THE TREE PRESERVATION AREA. NO EXCESS SOIL, ADDITIONAL FILL, LIQUIDS OR CONSTRUCTION DEBRIS SHALL BE PLACED WITHIN THE ROOT ZONE OF ANY TREE THAT IS REQUIRED TO REMAIN.
2. CRUSHED LIMESTONE, HYDROCARBONS AND OTHER MATERIALS DETRIMENTAL TO TREES SHALL NOT BE DUMPED WITHIN THE ROOT ZONE OF ANY TREE, NOR AT ANY HIGHER LOCATION WHERE DRAINAGE TOWARD THE TREE COULD CONCEIVABLY AFFECT THE HEALTH OF THE TREE.
3. APPROPRIATE PROTECTIVE FENCING SHALL BE TEMPORARILY INSTALLED FOR PROTECTION OF REMAINING TREES. APPROPRIATE PROTECTIVE FENCING SHALL INCLUDE WOODEN SNOW FENCE OR VINYL CONSTRUCTION FENCE.
4. ALL REQUIRED PROTECTIVE FENCING OR OTHER PHYSICAL BARRIER MUST BE IN PLACE AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING CONSTRUCTION. THE FENCING MUST REMAIN IN PLACE DURING THE ENTIRE CONSTRUCTION PERIOD TO PREVENT THE IMPINGEMENT OF CONSTRUCTION VEHICLES, MATERIALS, SPOILS AND EQUIPMENT INTO OR UPON THE TREE PRESERVATION AREA.
5. NO ATTACHMENTS, FENCES OR WIRES, OTHER THAN THOSE APPROVED FOR BRACING, GUYING OR WRAPPING, SHALL BE ATTACHED TO TREES DURING THE CONSTRUCTION PERIOD.
6. UNLESS OTHERWISE INDICATED ON THE PLANS, NO SOIL IS TO BE REMOVED FROM WITHIN THE ROOT ZONE OF ANY TREE THAT IS TO REMAIN.
7. WHERE CONSTRUCTION TAKES PLACE WITHIN THE CRITICAL ROOT ZONE OF ONE SIDE OF A TREE PROPOSED FOR PRESERVATION, PROTECTIVE FENCING SHALL BE EXTENDED BEYOND THE CRITICAL ROOT ZONE OF THE OTHER SIDE OF THE TREE TO MAXIMIZE PROTECTION OF THE ROOT SYSTEM.
8. TREES WHICH ARE PRESERVED, BUT WILL BE AFFECTED DURING THE CONSTRUCTION PROCESS SHALL HAVE THE CROWNS AND ROOTS PRUNED BY A CERTIFIED ARBORIST ACCORDING TO THE TREE PRUNING STANDARDS SET BY ANSI 2100.
9. IF, IN THE OPINION OF THE LANDSCAPE ARCHITECT, THE NECESSARY PRECAUTIONS AS SPECIFIED WERE NOT UNDERTAKEN BEFORE CONSTRUCTION COMMENCED, OR ARE NOT MAINTAINED AT ANY TIME DURING CONSTRUCTION, A STOP WORK ORDER SHALL BE ISSUED UNTIL SUCH TIME AS THE CONTRACTOR COMPLIES WITH THE PRECAUTIONS HEREIN.

LANDSCAPE PLAN GENERAL NOTES

1. THE LANDSCAPE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS AND DIRECTIONS OF THE SPECIFICATIONS.
2. THE LANDSCAPE CONTRACTOR SHALL PROTECT ALL WORK FROM DAMAGE BY OTHER UNTIL THE WORK IS COMPLETE AND ACCEPTED BY THE OWNER.
3. THE LANDSCAPE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES.
4. ALL PLANT MATERIALS SHALL CONFORM TO THE LATEST EDITION OF AMERICAN STANDARD FOR NURSERY STOCK AS PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION, 230 SOUTHERN BUILDING, WASHINGTON D.C. 20005 (ANSI Z60.1).
5. ALL PLANTS OF THE SAME SPECIES SHALL BE OBTAINED FROM THE SAME NURSERY SOURCE.
6. THE LANDSCAPE CONTRACTOR SHALL STAKE THE LOCATION OF ALL TREES AND OTHER LANDSCAPE FEATURES FOR APPROVAL BY THE OWNER/LANDSCAPE ARCHITECT AND SHALL CHECK FOR CORRECT SPACING BEFORE PLANTING.
7. THE CONTRACTOR SHALL GIVE AT LEAST 48 HOURS NOTICE TO THE OWNER/LANDSCAPE ARCHITECT AS EACH PHASE OF WORK IS UNDERTAKEN PRIOR TO PLANTING OPERATIONS SO THAT THE OWNER/LANDSCAPE ARCHITECT CAN BE PRESENT TO VERIFY PLANTS IMMEDIATELY PRIOR TO PLANTING. IF NOTICE IS NOT GIVEN BY THE CONTRACTOR, HE SHALL REMOVE/REPLACE PLANTS AS DIRECTED BY THE OWNER/LANDSCAPE ARCHITECT AT NO ADDITIONAL EXPENSE TO THE OWNER.
8. PLANT TREES AND SHRUBS AFTER THE FINAL GRADES HAVE BEEN ESTABLISHED AND PRIOR TO THE PLANTING OF LAWNS UNLESS OTHERWISE ACCEPTABLE TO THE OWNER. IF PLANTING OF TREES OCCURS AFTER LAWN WORK, THE LANDSCAPE CONTRACTOR SHALL PROTECT LAWN AREAS AND PROMPTLY REPAIR DAMAGED LAWN RESULTING FROM PLANTING OPERATIONS.
9. ALL PLANT MATERIAL SHALL BEAR THE SAME RELATIONSHIP TO THE NEW GRADE AS IT BORE TO THE GRADE AT THE NURSERY.
10. PRUNE BROKEN OR CROSS BRANCHING AT THE TIME OF PLANTING. DO NOT REMOVE LEADER.

LANDSCAPE PLAN GENERAL NOTES CONT.

11. FOR TREES PLANTED IN TURF AREAS, THE LANDSCAPE CONTRACTOR SHALL PROVIDE A 6'-0" DIA. SHREDDED HARDWOOD BARK MULCH RING (REMOVE EXISTING TURF) AT A MINIMUM OF 3" THICK (AFTER SETTLEMENT) WITH A CULTIVATED EDGE AT THE BASE OF EACH TREE. MULCH SHALL BE PLACED WITHIN TWO (2) DAYS AFTER TREES ARE PLANTED. THIS SHALL BE CONSIDERED INCIDENTAL TO TREE PLANTINGS. INCLUDE TERRA-SORB HYDROGEL CRYSTALS WITH PLANTING MIX.
12. TREES SHALL BE SET IN TRUE, VERTICAL ALIGNMENT AFTER PLANTING.
13. ALL PLANTS SHALL BE PLANTED PER THE LANDSCAPE PLAN AND SPECIFICATIONS. PLANTINGS NOT FOUND TO BE IN COMPLIANCE SHALL BE REPLANTED CORRECTLY AT NO ADDITIONAL EXPENSE TO THE OWNER.
14. ADJUST SHRUB, PERENNIAL, AND GROUNDCOVER SPACING AS NECESSARY TO EVENLY FILL PLANTING BEDS.
15. THE OWNER/LANDSCAPE ARCHITECT OR OWNER RESERVES THE RIGHT TO REJECT PLANTS ON SITE WHETHER STOCK PILED OR PLANTED IN PLACE. REJECTED PLANTS SHALL BE REMOVED IMMEDIATELY FROM SITE.
16. IN CASE OF DISCREPANCIES BETWEEN THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE.
17. WHERE PLANTING BEDS MEET TURF AREAS, THE CONTRACTOR SHALL PROVIDE A CULTIVATED EDGE. MULCH ALL SHRUB BEDS TO THE LINE SHOWN. THE CONTRACTOR SHALL FURNISH AND INSTALL 3" LAYER OF SHREDDED HARDWOOD MULCH UNDER ALL TREE PLANTINGS AND SHRUB BEDS. (SUBMIT SAMPLE, SEE SPECS.)
18. AN APPROVED ORGANIC PRE-EMERGENT HERBICIDE SHALL BE APPLIED IN ALL PLANTING BEDS AT A RATE SPECIFIED BY MANUFACTURER FOR EACH PLANT VARIETY.
19. STORE ALL PLANTS ON SITE OUT OF DIRECT WINDS IN AN AREA DESIGNATED BY THE OWNER'S AGENT.
20. THE LANDSCAPE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT INJURY TO ALL PLANT MATERIAL DURING DIGGING, HANDLING, PLANTING, AND MAINTENANCE OPERATIONS.
21. ALL PLANTS SHALL BE GROUPED TOGETHER BY SPECIES AND SIZE AND SHALL BE COVERED WITH MULCH OR COMPOST TO PREVENT DESICCATION.
22. FOR ALL GROUNDCOVERS, ROTOTILL 2" OF SPHAGNUM PEAT INTO TOPSOIL TO A DEPTH OF 6" TO YIELD A HOMOGENOUS MIXTURE OF TOPSOIL AND PEAT.
23. GROUNDCOVER AREAS SHALL ONLY RECEIVE 1 ½" SHREDDED HARDWOOD MULCH (NO FABRIC). CAREFULLY PLACE MULCH AROUND PLANT BASE.
24. FINE GRADE, FERTILIZE, AND SEED ALL DISTURBED AREAS WITHIN THE CONSTRUCTION LIMITS AS SHOWN. SEEDED AREAS SHALL INCLUDE EROSION CONTROL BLANKET, SEE SPECIFICATIONS. ALL TURF AREAS SHALL DRAIN COMPLETELY AND SHALL NOT POND NOR PUDDLE. ALL TURF AREAS SHALL RECEIVE 6" THICK BLACK TOPSOIL-ALLOW FOR SETTLEMENT.
25. DURING LANDSCAPE WORK, KEEP PAVEMENTS CLEAN AND WORK AREAS IN AN ORDERLY MANNER. REMOVE ALL DEBRIS FROM THE JOB SITE ON A DAILY BASIS.
26. ALL PLANT MATERIAL SHALL BE FULLY GUARANTEED FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. DEAD OR UNHEALTHY PLANTS SHALL BE REPLACED AS SOON AS CONDITIONS PERMIT.
27. PLANT MATERIAL TO BE INSTALLED MUST BE HEALTHY, FREE OF INSECTS, DISEASE AND SIGNIFICANT PHYSICAL DAMAGE.
28. SUBSTITUTION OF PLANT MATERIAL DUE TO LACK OF AVAILABILITY MUST BE APPROVED BY THE OWNER/LANDSCAPE ARCHITECT. SUBSTITUTE PLANTS SHALL BE THE SAME SIZE, OR LARGER, AND OF EQUAL OR BETTER VALUE THAN THE ITEMS SPECIFIED. THE "EQUALITY" WILL REST WITHIN THE SOLE JUDGMENT OF THE OWNER/LANDSCAPE ARCHITECT.
29. THE LANDSCAPE CONTRACTOR SHALL SUBMIT PHOTOGRAPHS OF ALL TAGGED PLANT MATERIAL PRIOR TO PURCHASE FOR APPROVAL OF THE OWNER/LANDSCAPE ARCHITECT.
30. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR WATERING ALL PLANT MATERIAL UNTIL ESTABLISHED.
31. ALL LANDSCAPE PLANT MATERIAL USED IN THE ABOVE OUTLINED AREAS MUST BE PURCHASED AND SIZED IN ACCORDANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK (MOST RECENT ADDITION).
32. IN ADDITION, PLANT MATERIAL TO BE INSTALLED MUST BE SELECTED FOR APPROPRIATENESS TO CLIMATE, SOIL TYPES AND SUITABILITY TO USE AREA.

SITE FURNISHINGS SCHEDULE

KEY	ITEM	MODEL	MFR.	QUANTITY	COMMENTS
FP	FLAG POLE	IRC30D62-ABL	AFF	1	SENTRY II FLAGPOLE, 2-PIECE POLE, 30-6-188, COLOR: BLACK ANODIZED, INTERNAL HALYARD, 6" BUTT DIAMETER, FLAG BY OWNER. SEE ALSO ELECTRICAL PLANS
TA	OLIVIA TABLE SET	0OL06-CG91144-0000	KR	4	48" ROUND TOP, WITH UMBRELLA HOLE, TABLE W/ GLIDES, 4 CHAIRS W/ GLIDES AND ARMS. TABLE COLOR: BRONZE, CHAIR COLOR: SPARKLE SILVER
TA2	COURTYARD TABLE OLIVIA CHAIRS	0CY13-4LF1000-0000 0OL02-2000000-0000	KR	1 3	COURTYARD TABLE AND BASE, 48" ROUND TABLE TOP WITH UMBRELLA HOLE, BASE WITH 4 LEGS AND ADJUSTABLE GLIDES. COLOR: BRONZE OLIVIA CHAIR WITH ARMS AND GLIDES. 3 CHAIRS PER TABLE. COLOR: SPARKLE SILVER
UM	UMBRELLA UMBRELLA BASE	RUMBA-6000000-0000 RBASE-8000000-0000	KR	5 5	6.5' ALUMINUM MARKET UMBRELLA, ALUMINUM POLE, FABRIC COLOR: CANVAS FOREST GREEN CLASSIC STYLE UMBRELLA BASE, COLOR: GLOSS BLACK

MANUFACTURERS REPRESENTATIVES AND SUPPLIER LIST

2.	AFF	AMERITEX FLAG AND FLAGPOLE, INC.	AMERITEX FLAG 31148 OAKVIEW RD BULVERDE, TX 78163 877-598-3524
3.	KR	KEYSTONE RIDGE	CONTACT: JUSTIN MASKAL KEYSTONE RIDGE 724-284-1213 JUSTINM@KEYSTONERIDGEDESIGNS.COM

CUMULATIVE PLANT SCHEDULE

Deciduous Trees				
Code		**Size**	**Scientific Name**	**Common Name**
ULMO	3	3" bb	Ulmus x 'Morton Glossy'	Triumph Elm
Shrubs				
Code		**Size**	**Scientific Name**	**Common Name**
SPBU	7	5 gal	Spiraea x bumalda 'Denistar'	Superstar Spirea
TATA	3	24" bb	Taxus x media 'Tauntonii'	Taunton Yew
Perennials				
Code		**Size**	**Scientific Name**	**Common Name**
HEHR	17	#01 (gal)	Hemerocallis 'Happy Returns'	Happy Returns Daylily
Ornamental Grasses				
Code		**Size**	**Scientific Name**	**Common Name**
PARO	23	#01 (gal)	Panicum virgatum 'Apache Rose'	Apache Rose Switch Grass
PEAL	20	#01 (gal)	Pennisetum alopecuroides	Fountain Grass
Native Plants				
Code		**Size**	**Scientific Name**	**Common Name**
See Plans	68	#01 (gal)	Dalea purpurea	Purple Prairie Clover
See Plans	68	#01 (gal)	Eryngium yuccifolium	Rattlesnake Master
See Plans	68	#01 (gal)	Monarda fistula	Prairie Bergamot
See Plans	68	#01 (gal)	Panicum virgatum	Switch Grass
See Plans	68	#01 (gal)	Rudbeckia hirta	Black Eyed Susan
See Plans	68	#01 (gal)	Schizachyrium scoparium	Little Bluestem
See Plans	68	#01 (gal)	Symphyotrichum novae-angliae 'Purple Dome'	Purple Dome New England Aster
See Plans	68	#01 (gal)	Verbena stricta	Hoary Vervain
See Plans	68	#01 (gal)	Zizia aurea	Golden Alexander

TRIA ARCHITECTURE

KITCHEN CONSULTANT: edge associates inc. food service design (P) 855.962.4422

CIVIL CONSULTANT: HRGreen (P) 800.728.7805

LANDSCAPE CONSULTANT: JSD (P) 312.644.3379

STRUCTURAL CONSULTANT: Larson Engineering, Inc. (P) 630.357.0940

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

DATE	REVISION

PROJECT NUMBER: 24-002
PROJECT MANAGER: PSN
DRAWN BY: SCD

ISSUED FOR BID & PERMIT: 09/05/24

NOTES & SCHEDULES

NOT FOR CONSTRUCTION

L1.00

LANDSCAPE PLAN NOTES:

1. FOR ALL EXISTING TREES TO REMAIN: PROTECT DURING CONSTRUCTION. FURNISH AND INSTALL TREE PROTECTION FENCING. IT IS THE ESSENCE OF THE CONTRACTOR TO PRESERVE THE PRESENT CONDITION OF THE TREES TO REMAIN. ALL REMOVALS AND DEMOLITION OF MATERIALS BENEATH THE TREE CANOPIES TO BE PERFORMED BY MANUAL OPERATIONS (HAND). NO MACHINERY TO BE USED BENEATH THE CANOPY OF THE TREE IN ORDER TO PROTECT ROOTS FROM DAMAGE.
2. SEE ALSO SPECIFICATIONS FOR PLANTING REQUIREMENTS.
3. FINE GRADE AND SEED DISTURBED AREA, INCLUDE EROSION CONTROL BLANKET. SEE ALSO SPECIFICATIONS AND CIVIL ENGINEERING PLANS.
4. THE CONTRACTOR SHALL WATER ALL NEWLY SEEDED AREAS FOR 60 DAYS AFTER INSTALLATION OR UNTIL A SATISFACTORY STAND OF GRASS HAS BEEN ESTABLISHED AND THE SITE HAS BEEN TURNED OVER TO THE OWNER.
5. CONTRACTOR SHALL RESTORE NATIVE AREA AND COORDINATE WITH LANDSCAPE ARCHITECT FOR NATIVE PLANTING LAYOUT. SEE ALSO NATIVE PLANTING SPECIFICATION. GIVE 48 HOURS NOTICE.
6. FURNISH AND INSTALL UMBRELLA TABLE (TA, UM). SEE ALSO SITE FURNISHINGS SCHEDULE.
7. FURNISH AND INSTALL ADA UMBRELLA TABLE (TA2). SEE ALSO SITE FURNISHINGS SCHEDULE.
8. FURNISH AND INSTALL FLAG POLE (FP). SEE DETAIL AND SITE FURNISHINGS SCHEDULE. SEE ALSO ELECTRICAL PLANS.
9. FURNISH AND INSTALL FLAGSTONE STEPPERS AT FLAG POLE. SEE DETAIL.

LEGEND

- RESTORATION LIMITS
- SEED RESTORATION
- RAIN GARDEN PLANTINGS, SEE PLANT SCHEDULE

* RESTORE OTHER AREAS AS DISTURBED BY CONSTRUCTION AS NEEDED

CONCRETE SCORE JOINTS SHALL ALIGN WITH EXISTING JOINTS

PLANT IN GROUPINGS OF 5:
5 DAPU
5 RUHI
5 SCSC
5 ZIAU

PLANT IN GROUPINGS OF 7 TO 9:
63 DAPY
68 ERYU
68 MOFI
63 RUHI
6 SCSC
68 SYNA
68 VEST
63 ZIAU

TA, UM
TA2
TA, UM
TA, UM
TA, UM

7 SBBU
17 HEHR
20 CANE
20 PEAL
FP
3 TATA
23 PARO

3 ULMO

1 OVERALL LANDSCAPE & RESTORATION PLAN
1"=10'-0"

0 5 10 20 40

BENCHMARKS
NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88)

1. CUT X IN CONCRETE FLAG POLE BASE WEST OF CONCESSION BUILDING. ELEVATION 856.45
2. CUT X IN SIDEWALK IN CENTER MEDIAN OF PRAIRIE STONE PARKWAY, WEST OF HOFFMAN BOULEVARD. ELEVATION 854.58
3. CUT X IN CONCRETE LIGHT POLE BASE, NORTH SIDE OF PRAIRIE STONE PARKWAY AT DRIVEWAY ENTRANCE. ELEVATION 857.83

TRIA ARCHITECTURE

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VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER:	24-002
PROJECT MANAGER:	PSN
DRAWN BY:	SCD

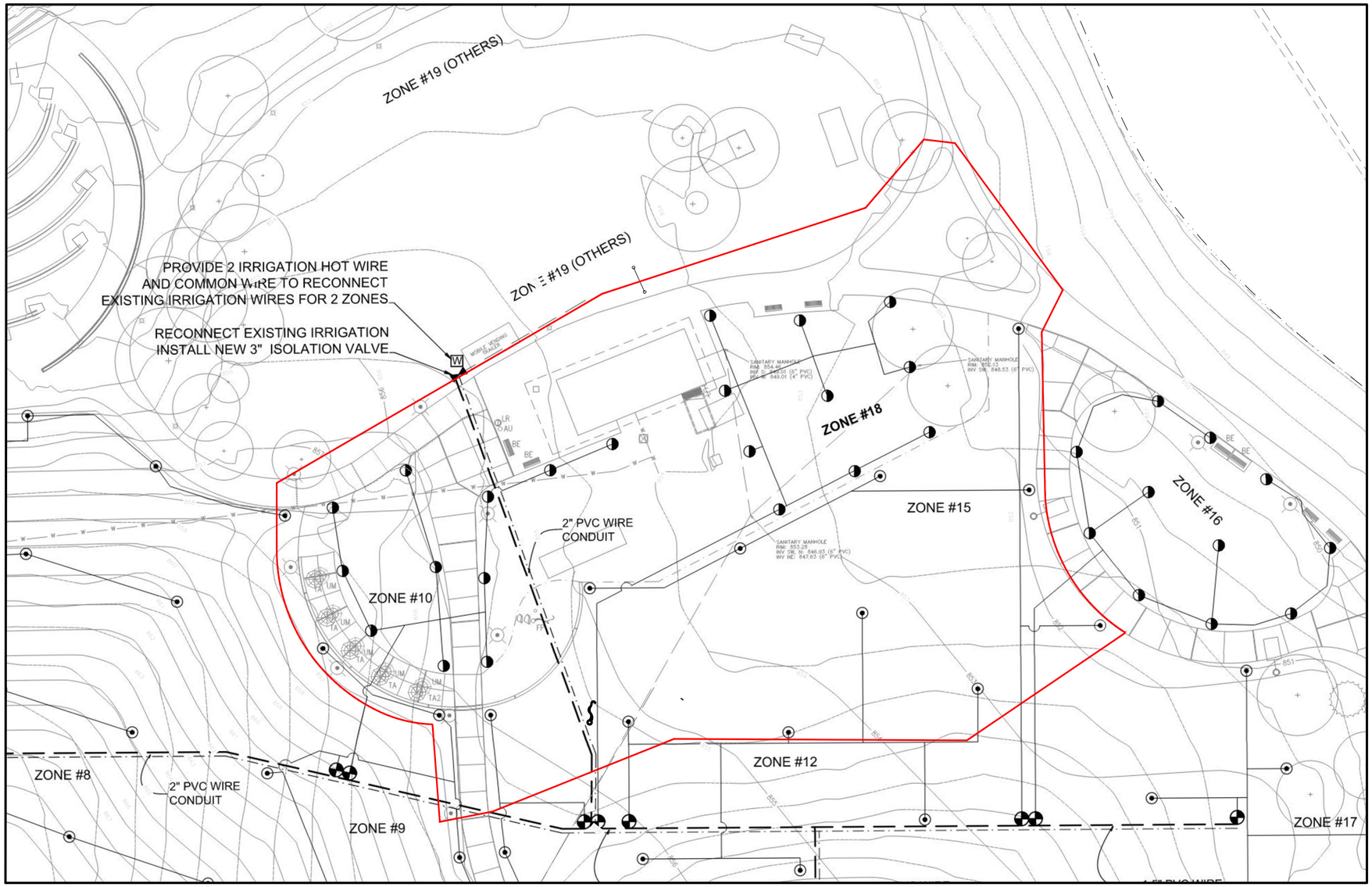
REVISION	DATE

ISSUED FOR BID & PERMIT: 09/05/24

OVERALL LANDSCAPE PLAN & RESTORATION

NOT FOR CONSTRUCTION

L1.10



1 EXISTING IRRIGATION PLAN OVERLAY & PHASE II PROJECT AREA
1"=20'-0"

IRRIGATION PLAN NOTES:

1. REVIEW EXISTING IRRIGATION PLANS PRIOR TO DEMOLITION.
2. ALL EXISTING IRRIGATION LINES HAVE TRACER WIRE TO LOCATE.
3. ALL IRRIGATION ZONES SHALL BE MAINTAINED AND ADJUSTED AS NECESSARY TO PROVIDE COVERAGE FOR TURF AND PLANT MATERIAL.
4. CONTACT CENTRAL LAWN LAWN SPRINKLERS, INC. AT 847-364-6900 FOR ANY QUESTIONS REGARDING THE EXISTING IRRIGATION SYSTEM.
5. PROVIDE AS-BUILT IRRIGATION DRAWINGS TO THE VILLAGE.

0 10 20 40 80

N

BENCHMARKS
NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88)

1. CUT X IN CONCRETE FLAG POLE BASE WEST OF CONCESSION BUILDING. ELEVATION 856.45
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TRIA ARCHITECTURE

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VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER:	24-002
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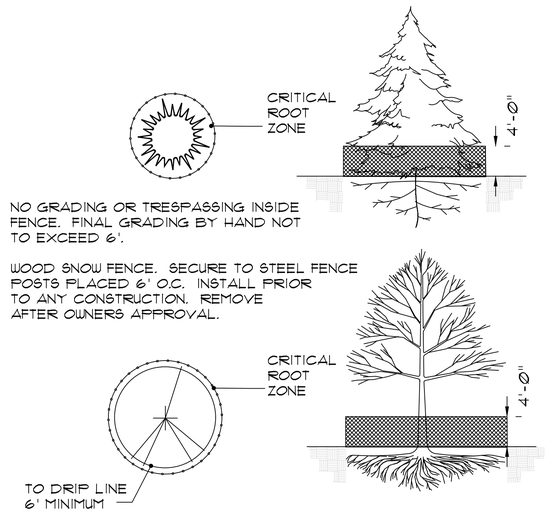
ISSUED FOR BID & PERMIT: 09/05/24	

EXISTING IRRIGATION SYSTEM: PHASE II ADJUSTMENTS

NOT FOR CONSTRUCTION

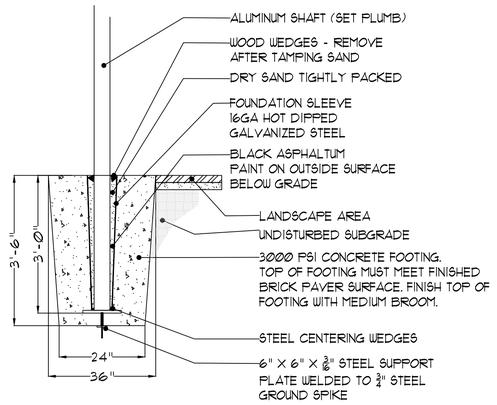
L1.20



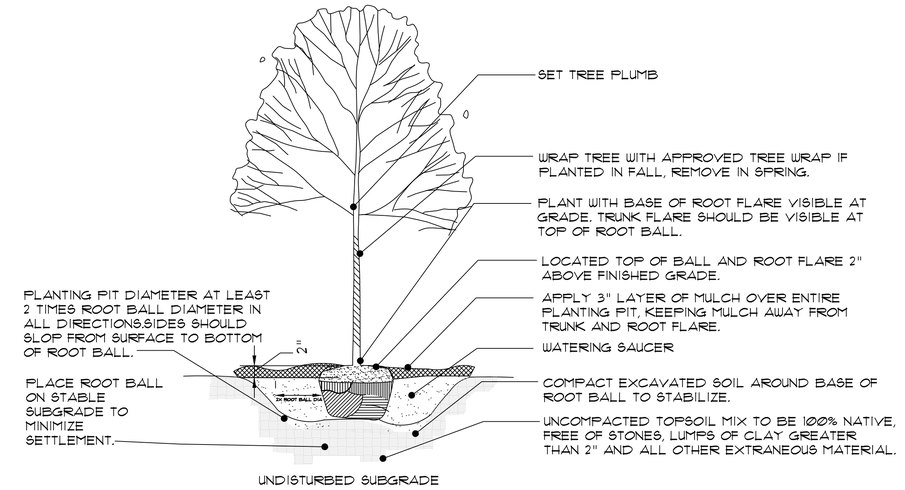
1 TREE PROTECTION FENCING
NTS

NOTE: DO NOT ALLOW CONCRETE TO CONTACT ALUMINUM SHAFT. EXTREME CAUTION SHOULD BE EXERCISED WHEN INSTALLING FLAGPOLES NEAR OVERHEAD POWERLINES, OR IN THE VICINITY OF BURIED CABLES.

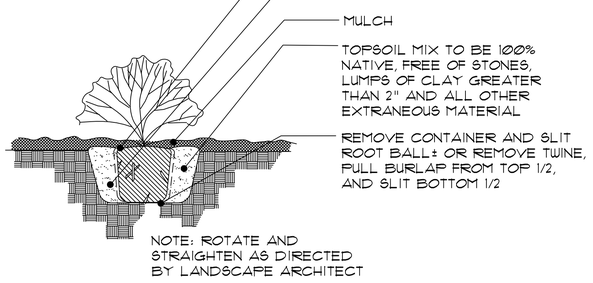
REFER ALSO TO MANUFACTURER'S RECOMMENDATIONS.



2 FLAG POLE FOOTING
NTS

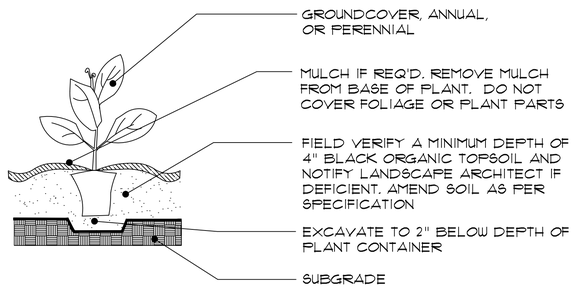


3 DECIDUOUS TREE
NTS

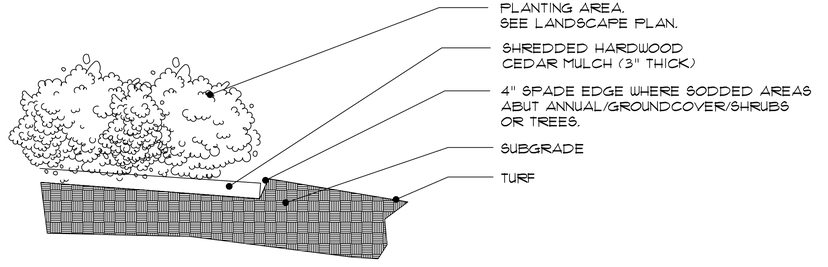


4 EVERGREEN / DECIDUOUS SHRUB
NTS

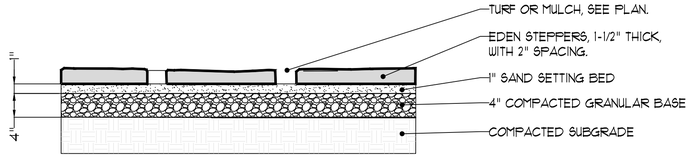
WATER THOROUGHLY AFTER PLANTING AND MAINTAIN AS PER SPECIFICATION



5 PERENNIAL / ORNAMENTAL GRASS
NTS



6 NATURAL SPADE EDGE
NTS



7 FLAGSTONE STEPPERS
NTS

TRIA ARCHITECTURE
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VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

DATE	REVISION

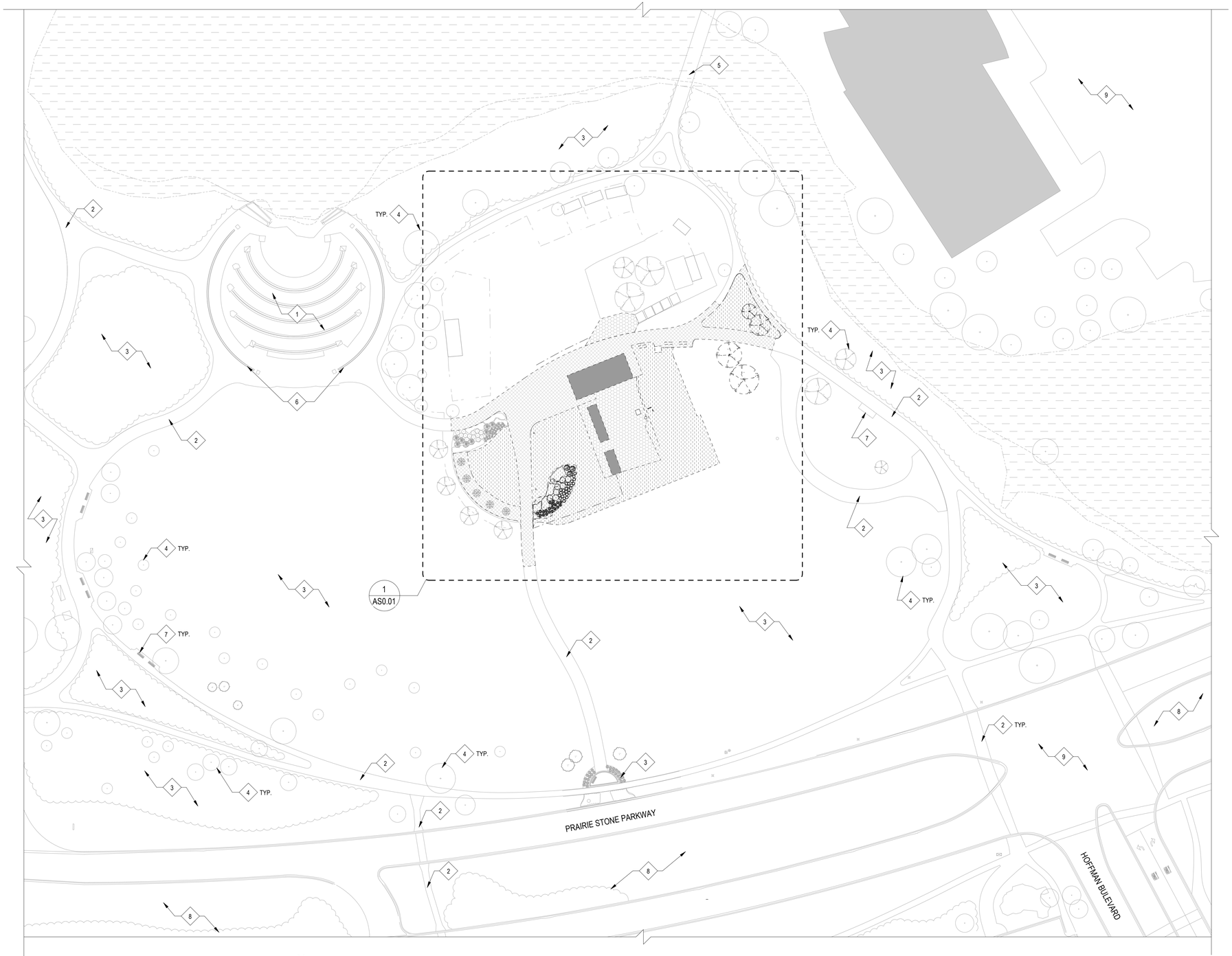
PROJECT NUMBER: 24-002
PROJECT MANAGER: PSN
DRAWN BY: SCD

ISSUED FOR BID & PERMIT: 09/05/24

CONSTRUCTION DETAILS

NOT FOR CONSTRUCTION

L2.00



1 EXISTING OVERALL ARCHITECTURAL SITE PLAN
1" = 40'-0"

N

EXISTING SITE PLAN GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS. IN THE EVENT THAT AN ITEM NOT SHOWN ON THE DRAWINGS CONFLICTS WITH WORK UNDER THIS CONTRACT, CONTACT THE ARCHITECT PRIOR TO REMOVAL OF THAT ITEM. ITEMS SHOWN ARE INDICATED TO GIVE A GENERAL SCOPE OF WORK. ANY ITEMS REQUIRING REMOVAL/ DEMOLITION TO PROPERLY PERFORM CONTRACT WORK BUT NOT SPECIFICALLY SHOWN, SHALL BE REMOVED BY THE CONTRACTOR AT NO ADDITIONAL COST, PROVIDING THE CONDITION WAS VISIBLE DURING BIDDING.
2. SHORE OR BRACE ALL EXISTING CONSTRUCTION AND GRADE AS REQUIRED TO PERFORM DEMOLITION WORK.
3. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORING, CUTTING, PATCHING, INFILLING, REPAIRING, REFINISHING, AND REMOVAL/ REPLACEMENT OF BUILDING CONSTRUCTION REQUIRED TO ACCOMMODATE THE INSTALLATION OR REMOVAL OF THEIR WORK. ALL PATCHING, REPAIRING, AND REFINISHING SHALL BE PERFORMED BY THOSE REGULARLY INVOLVED IN THAT TRADE AND SHALL MATCH THE ADJACENT CONSTRUCTION.
4. PROTECT ALL EXISTING EQUIPMENT AND ADJACENT WORK NOT SCHEDULED TO BE REMOVED FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGED EQUIPMENT OR ADJACENT SURFACES INCLUDING GRASS AND LANDSCAPING SHALL BE REPAIRED OR REPLACED BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
5. REFER TO CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
6. THE OWNER HAS FIRST RIGHT OF REFUSAL FOR ANY MATERIAL OR EQUIPMENT REMOVED
7. AT ALL EXISTING GRASS AREAS, LANDSCAPING ITEMS, AND CONCRETE/ ASPHALT SURFACES TO REMAIN - PROTECT SURFACES DURING CONSTRUCTION AND REPAIR ANY AREAS DAMAGED OR OTHERWISE AFFECTED DURING CONSTRUCTION BACK TO PRECONSTRUCTION CONDITION.

FENCING NOTE

1. PROVIDE TEMPORARY FENCING AS REQUIRED TO ENCLOSE ALL AREAS OF EXTERIOR WORK AT ALL TIMES.
2. COORDINATE FENCE LOCATION WITH OWNER.

EXISTING SITE PLAN REFERENCED NOTES

X

1 EXISTING OUTDOOR AMPHITHEATER TO REMAIN.
2 EXISTING CONCRETE WALK TO REMAIN.
3 EXISTING GRASS AND LANDSCAPING TO REMAIN.
4 EXISTING TREE TO REMAIN.
5 EXISTING WOOD BRIDGE TO REMAIN.
6 EXISTING STONE WALL TO REMAIN.
7 EXISTING BENCH TO REMAIN.
8 EXISTING MEDIAN STRIP TO REMAIN.
9 EXISTING BITUMINOUS PAVEMENT AND DRIVE TO REMAIN.

LEGEND

POND AND WET LAND AREA TO REMAIN

EXISTING BUILDING TO REMAIN

EXISTING CONSTRUCTION TO REMAIN

EXISTING CONSTRUCTION T BE REMOVED/ DEMOLISHED

TRIA ARCHITECTURE

KITCHEN CONSULTANT: edge associates inc. food service design — 401 S. 7TH AVENUE, SUITE 2-A, ST. CHARLES, ILLINOIS 60174 — (P) 855.962.4422

CIVIL CONSULTANT: HRGreen — 1391 CORPORATE CENTER CURVE, EAGAN, MINNESOTA 55121 — (P) 800.728.7805

LANDSCAPE CONSULTANT: JSD — 401 E. 75TH AVENUE, SUITE 215, DARIEN, ILLINOIS 60561 — (P) 312.644.3379

STRUCTURAL CONSULTANT: Larson Engineering, Inc. — 444 E. 75TH STREET, SUITE 100, DARIEN, ILLINOIS 60561 — (P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER:	24-002
PROJECT MANAGER:	PSN
DRAWN BY:	PSN & MM
ISSUE FOR BID & PERMIT:	09/05/24

REVISION	DATE

EXISTING OVERALL ARCHITECTURAL SITE PLAN

AS0.00

1 EXISTING ENLARGED PARTIAL ARCHITECTURAL SITE PLAN
1" = 20'-0"

N

LEGEND

- EXISTING CONCRETE PAVEMENT/ WALK TO BE REMOVED AS REQUIRED TO PROVIDE WORK INDICATED - REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION
- EXISTING GRASS AND LANDSCAPING TO BE REMOVED AS REQUIRED TO PROVIDE WORK INDICATED - REFER TO LANDSCAPE AND CIVIL DRAWINGS FOR ADDITIONAL INFORMATION
- EXISTING GRAVEL AREA TO BE REMOVED AS REQUIRED TO PROVIDE WORK INDICATED - REFER TO LANDSCAPE AND CIVIL DRAWINGS FOR ADDITIONAL INFORMATION
- POND AND WET LAND AREA TO REMAIN
- EXISTING BUILDING TO BE REMOVED IN ITS ENTIRETY
- EXISTING CONSTRUCTION TO REMAIN
- EXISTING FENCE TO REMAIN
- EXISTING CONSTRUCTION TO BE REMOVED

EXISTING SITE PLAN GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS. IN THE EVENT THAT AN ITEM NOT SHOWN ON THE DRAWINGS CONFLICTS WITH WORK UNDER THIS CONTRACT, CONTACT THE ARCHITECT PRIOR TO REMOVAL OF THAT ITEM. ITEMS SHOWN ARE INDICATED TO GIVE A GENERAL SCOPE OF WORK. ANY ITEMS REQUIRING REMOVAL/ DEMOLITION TO PROPERLY PERFORM CONTRACT WORK BUT NOT SPECIFICALLY SHOWN, SHALL BE REMOVED BY THE CONTRACTOR AT NO ADDITIONAL COST, PROVIDING THE CONDITION WAS VISIBLE DURING BIDDING.
2. SHORE OR BRACE ALL EXISTING CONSTRUCTION AND GRADE AS REQUIRED TO PERFORM DEMOLITION WORK.
3. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORING, CUTTING, PATCHING, INFILLING, REPAIRING, REFINISHING, AND REMOVAL/ REPLACEMENT OF BUILDING CONSTRUCTION REQUIRED TO ACCOMMODATE THE INSTALLATION OR REMOVAL OF THEIR WORK. ALL PATCHING, REPAIRING, AND REFINISHING SHALL BE PERFORMED BY THOSE REGULARLY INVOLVED IN THAT TRADE AND SHALL MATCH THE ADJACENT CONSTRUCTION.
4. PROTECT ALL EXISTING EQUIPMENT AND ADJACENT WORK NOT SCHEDULED TO BE REMOVED FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGED EQUIPMENT OR ADJACENT SURFACES INCLUDING GRASS AND LANDSCAPING SHALL BE REPAIRED OR REPLACED BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
5. REFER TO CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
6. THE OWNER HAS FIRST RIGHT OF REFUSAL FOR ANY MATERIAL OR EQUIPMENT REMOVED
7. AT ALL EXISTING GRASS AREAS, LANDSCAPING ITEMS, AND CONCRETE/ ASPHALT SURFACES TO REMAIN - PROTECT SURFACES DURING CONSTRUCTION AND REPAIR ANY AREAS DAMAGED OR OTHERWISE AFFECTED DURING CONSTRUCTION BACK TO PRECONSTRUCTION CONDITION.

FENCING NOTE

1. PROVIDE TEMPORARY FENCING AS REQUIRED TO ENCLOSE ALL AREAS OF EXTERIOR WORK AT ALL TIMES.
2. COORDINATE FENCE LOCATION WITH OWNER.

EXISTING SITE PLAN REFERENCED NOTES

X

1 EXISTING CAMPER AREA TO REMAIN.
2 EXISTING CONCESSION/ RENTAL AREA TO REMAIN.
3 EXISTING STAGE AREA TO REMAIN.
4 EXISTING WOOD HUT TO REMAIN.
5 EXISTING GRAVEL AREA TO REMAIN.
6 EXISTING GRASS AND LANDSCAPING TO REMAIN.
7 EXISTING TREE TO REMAIN.
8 EXISTING TENT AREA TO REMAIN.
9 EXISTING CONCRETE WALK TO REMAIN.
10 EXISTING LIGHT POLE TO REMAIN - REFER TO ELECTRICAL DRAWINGS.
11 EXISTING FENCE TO BE REMOVED BY OWNER.
12 EXISTING FURNISHING TO BE REMOVED BY OWNER.
13 EXISTING STONE WITH DEDICATION PLAQUE TO BE RELOCATED BY OWNER.
14 EXISTING ROPE FENCE TO BE REMOVED BY OWNER.
15 EXISTING MOBILE STRUCTURE UNIT TO BE RELOCATED TO NOW ARENA PARKING LOT - COORDINATE LOCATION WITH OWNER.
16 EXISTING CHAIN LINKED FENCE TO BE REMOVED IN ITS ENTIRETY.
17 EXISTING TRANSFORMER TO BE RELOCATED - REFER TO ELECTRICAL DRAWINGS.
18 EXISTING WOOD BOOTH TO BE REMOVED BY OWNER.
19 EXISTING BENCH TO BE REMOVED BY OWNER.
20 EXISTING TREE TO BE REMOVED - REFER TO CIVIL DRAWINGS.
21 EXISTING BOLLARD WITH LIGHT TO BE RELOCATED - REFER TO ELECTRICAL DRAWINGS.
22 EXISTING FLAGPOLE TO BE REMOVED.

TRIA ARCHITECTURE

KITCHEN CONSULTANT: edge associates inc food service design (P) 855.962.4422
CIVIL CONSULTANT: HRGreen (P) 800.728.7805
LANDSCAPE CONSULTANT: JSD (P) 312.644.3379
STRUCTURAL CONSULTANT: Larson Engineering, Inc. (P) 630.357.0540

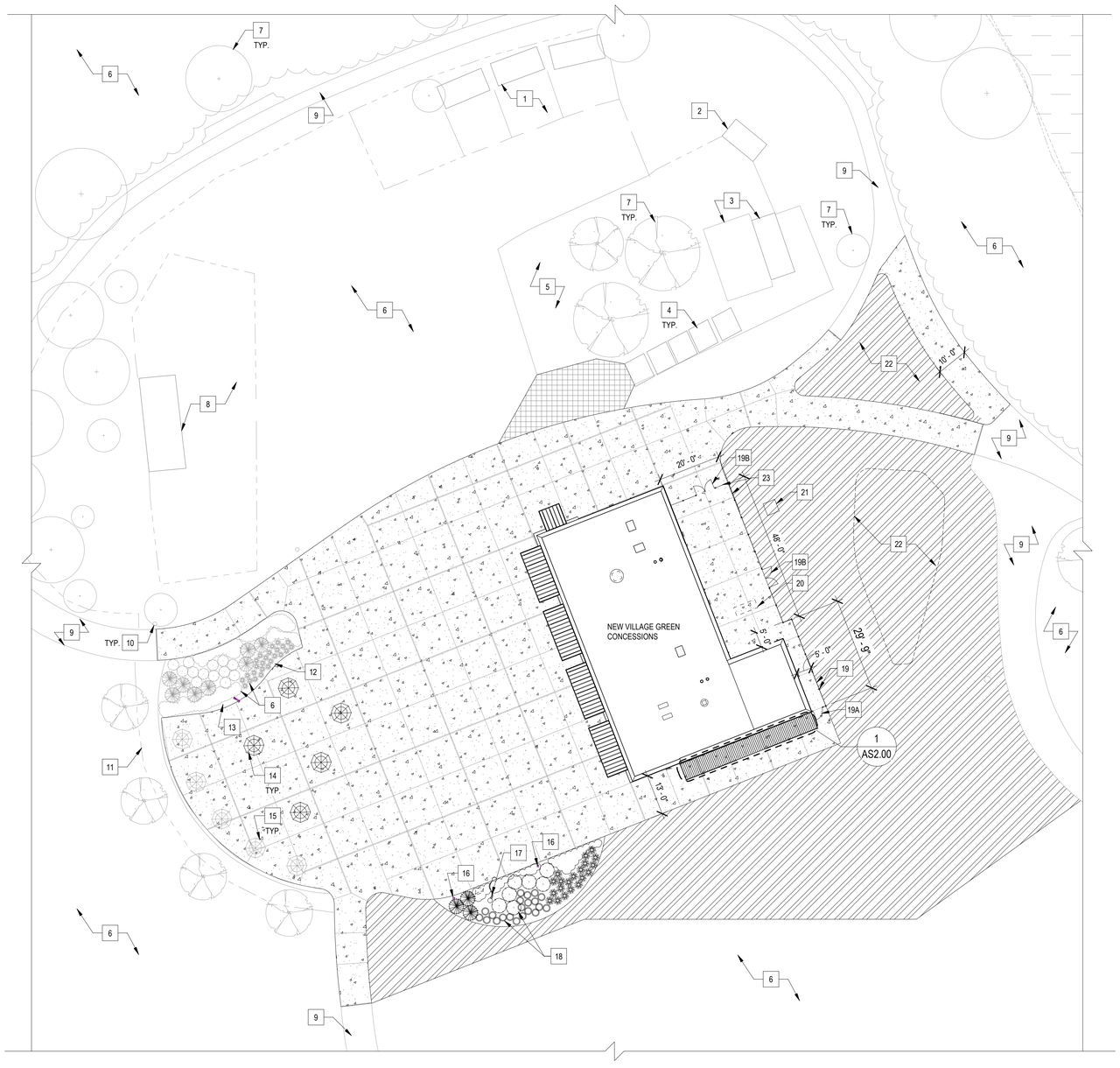
VILLAGE OF HOFFMAN ESTATES
VILLAGE GREEN CONCESSIONS
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER:	24-002
PROJECT MANAGER:	PSN
DRAWN BY:	PSN & MM
ISSUE FOR BID & PERMIT:	09/05/24

REVISION | DATE

EXISTING ENLARGED PARTIAL ARCHITECTURAL SITE PLAN

AS0.01



1 ARCHITECTURAL SITE PLAN
1" = 20'-0"

N

SITE PLAN GENERAL NOTES

1. REFER TO CIVIL, LANDSCAPING, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR MORE INFORMATION.
2. SITE PLAN DIMENSIONS AND INFORMATION SHOWN ARE DERIVED FROM THE PLAT OF SURVEY. CONTRACTOR TO FIELD VERIFY ACCURACY OF ALL DIMENSIONS AND INFORMATION. CONTRACTOR IS TO NOTIFY OWNER AND ARCHITECT IN WRITING OF ANY DISCREPANCIES AS SOON AS DISCOVERED.
3. FIELD VERIFY ALL EXISTING CONDITIONS. IN THE EVENT THAT AN ITEM NOT SHOWN ON THE DRAWINGS CONFLICTS WITH WORK UNDER THIS CONTRACT, IMMEDIATELY CONTACT THE ARCHITECT. ITEMS SHOWN ARE INDICATED TO GIVE A GENERAL SCOPE OF WORK. ANY ITEMS REQUIRED TO PROPERLY PERFORM CONTRACT WORK BUT NOT SPECIFICALLY SHOWN, SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST.
4. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORING, CUTTING, PATCHING, INFILLING, REPAIRING, REFINISHING, AND REMOVAL/ REPLACEMENT OF BUILDING CONSTRUCTION REQUIRED TO ACCOMMODATE THE INSTALLATION OR REMOVAL OF THEIR WORK. ALL PATCHING, REPAIRING, AND REFINISHING SHALL BE PERFORMED BY THOSE REGULARLY INVOLVED IN THAT TRADE AND SHALL MATCH THE ADJACENT CONSTRUCTION.
5. PROTECT ALL EXISTING EQUIPMENT AND ADJACENT WORK, INCLUDING GRASS AREAS AND LANDSCAPING, SCHEDULED TO REMAIN FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGED EQUIPMENT OR ADJACENT SURFACES SHALL BE REPAIRED OR REPLACED BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER. AT ALL EXISTING GRASS AREAS, LANDSCAPING ITEMS AND CONCRETE / ASPHALT SURFACES TO REMAIN - REPAIR ANY AREAS DAMAGED OR OTHERWISE AFFECTED DURING CONSTRUCTION BACK TO PRECONSTRUCTION CONDITION.

SITE PLAN REFERENCED NOTES X

1 EXISTING CAMPER AREA
2 EXISTING CONCESSION/ RENTAL AREA
3 EXISTING STAGE AREA
4 EXISTING WOOD HUT
5 EXISTING GRAVEL AREA
6 EXISTING GRASS AND LANDSCAPING
7 EXISTING TREE
8 EXISTING TENT AREA
9 EXISTING CONCRETE WALK
10 EXISTING LIGHT POLE - REFER TO ELECTRICAL DRAWINGS.
11 EXISTING FENCE REINSTALLED BY OWNER - FOR REFERENCE ONLY.
12 LIGHT POLE - REFER TO ELECTRICAL DRAWINGS
13 OUTLET PEDESTAL - REFER TO ELECTRICAL DRAWINGS
14 FURNISHING - REFER TO LANDSCAPE DRAWINGS
15 EXISTING FURNISHING REINSTALLED BY OWNER - FOR REFERENCE ONLY.
16 EXISTING BOLLARD WITH LIGHT REINSTALL LOCATION - REFER TO ELECTRICAL DRAWINGS.
17 FLAG POLE WITH GROUND LIGHT - REFER TO LANDSCAPE AND ELECTRICAL DRAWINGS.
18 NEW LANDSCAPING - REFER TO LANDSCAPE DRAWINGS.
19 PREFINISHED ALUMINUM PRIVACY FENCE - REFER TO 5/AS2.00.
19A PREFINISHED ALUMINUM PRIVACY 36" WIDE GATE.
19B PREFINISHED ALUMINUM PRIVACY DOUBLE 36" WIDE GATE.
20 GREASE INTERCEPTOR - REFER TO FOOD SERVICE DRAWINGS.
21 RELOCATED EXISTING TRANSFORMER - REFER TO ELECTRICAL DRAWINGS.
22 RAIN GARDEN - REFER TO CIVIL AND LANDSCAPE DRAWINGS.
23 VINYL WALL GRAPHIC ADHERED TO EXTERIOR ALUMINUM PRIVACY FENCE - (6) COLORS, APPROXIMATE SIZE 6' TALL X 30' WIDE.

LEGEND

- NEW CONCRETE PAVIMENT/ WALK - REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION
- NEW GRASS AND LANDSCAPING AREA - REFER TO CIVIL AND LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION
- NEW GRAVEL/ STONE - REFER TO CIVIL DRAWINGS
- EXISTING CONSTRUCTION
- EXISTING FENCE
- NEW CONSTRUCTION

TRIA ARCHITECTURE

KITCHEN CONSULTANT: JSD — 401 E 75th AVENUE, SUITE 215, DYER, INDIANA 46311 — (P) 219.644.3379

LANDSCAPE CONSULTANT: edge associates inc. true service design — 401 W. BURDA STREET, SUITE A, ADDISON, ILLINOIS 60101 — (P) 855.962.4422

STRUCTURAL CONSULTANT: Larson Engineering, Inc. — 444 BAKER STREET, SUITE 100, WINFIELD, ILLINOIS 60190 — (P) 630.357.0540

CIVIL CONSULTANT: HRGreen — 2200 CABOT DRIVE, SUITE 375, LISLE, ILLINOIS 60532 — (P) 800.728.7805

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

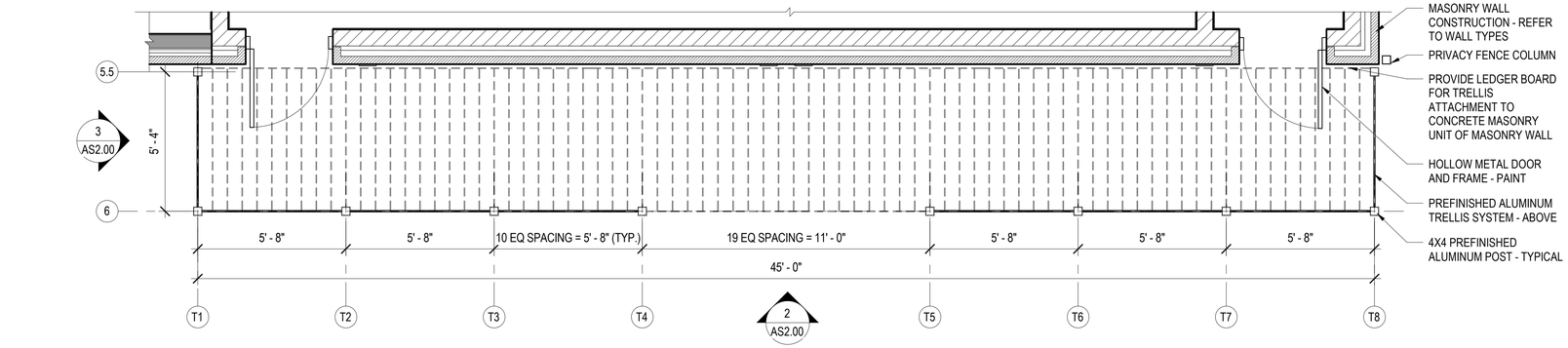
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER:	24-002
PROJECT MANAGER:	PSN
DRAWN BY:	PSN
ISSUE FOR BID & PERMIT:	09/05/24

DATE | REVISION

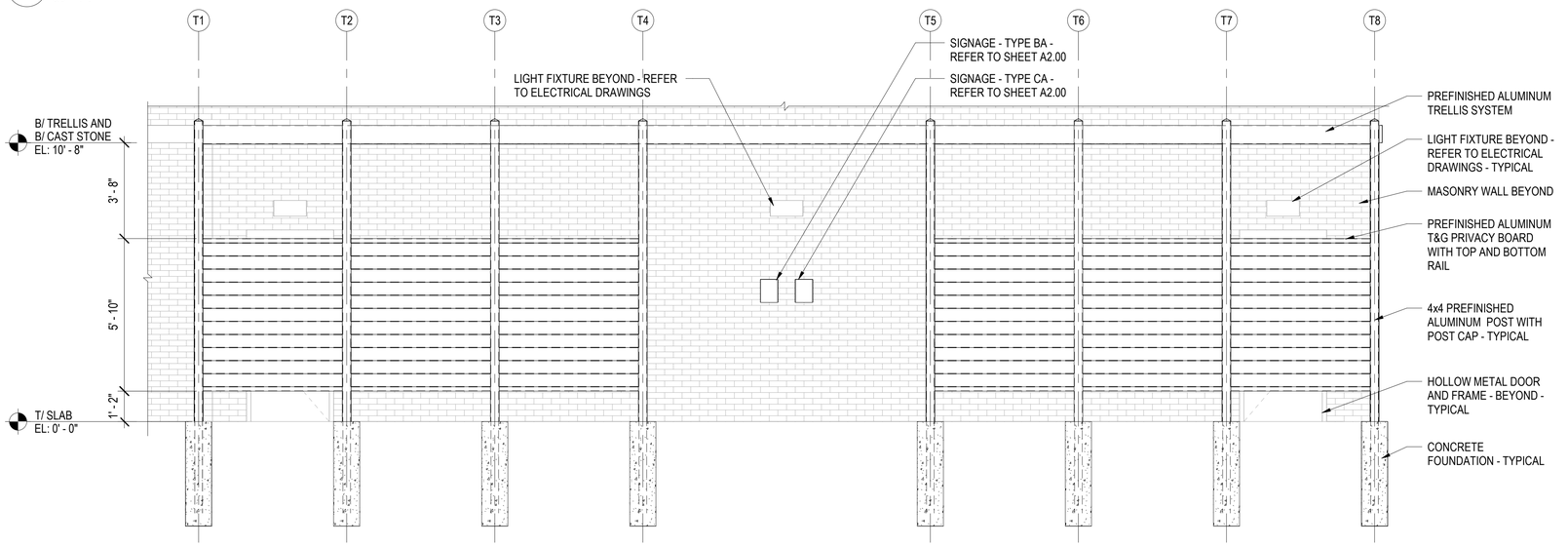
ARCHITECTURAL SITE PLAN

AS1.00

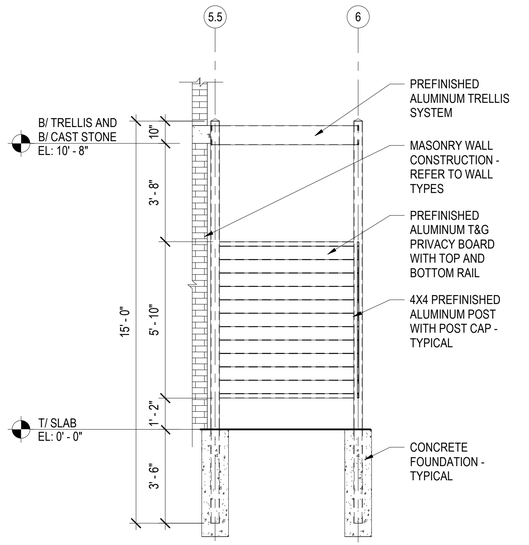


1 BATHROOM SCREEN AND TRELLIS PLAN
3/8" = 1'-0"

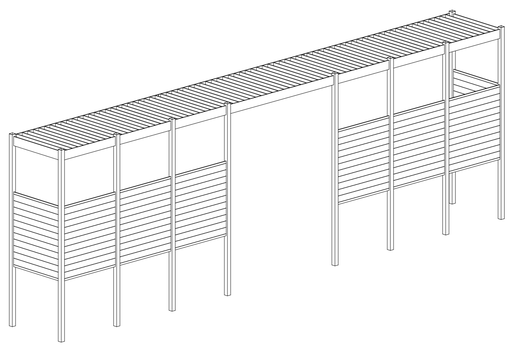
NOTE:
1. ALL PRIVACY SCREEN, FENCE AND TRELLIS COMPONENTS, ANCHORS, FOUNDATIONS AND ACCESSORIES TO BE ENGINEERED BY ALUMINUM FENCE CONTRACTOR.
2. BOTTOM OF TRELLIS TO ALIGN WITH BOTTOM OF CAST STONE ON MASONRY WALL.
3. TRELLIS DESIGNED SIZE IS 5/8" X 8-5/8" DEEP AND SPACING TO BE 6" MINIMUM.
4. PRIVACY SCREEN AND FENCE FENCE DESIGNED SIZE IS 3/4" X 6" TONGUE AND GROOVE BOARD.



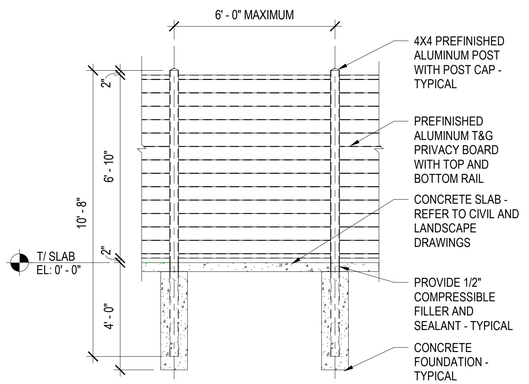
2 BATHROOM SCREEN AND TRELLIS SOUTH ELEVATION
3/8" = 1'-0"



3 BATHROOM SCREEN AND TRELLIS WEST ELEVATION
3/8" = 1'-0"



4 BATHROOM SCREEN AND TRELLIS 3D VIEW



5 FENCE ELEVATION
3/8" = 1'-0"

TRIA ARCHITECTURE

KITCHEN CONSULTANT: JSD (P) 855.962.4422
CIVIL CONSULTANT: HR Green (P) 800.728.7805
LANDSCAPE CONSULTANT: edge associates inc. (P) 312.644.3379
STRUCTURAL CONSULTANT: Larson Engineering, Inc. (P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES
VILLAGE GREEN CONCESSIONS
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER:	24-002
PROJECT MANAGER:	PSN
DRAWN BY:	PSN

ISSUE FOR BID & PERMIT: 09/05/24

DATE	REVISION

TRELLIS AND FENCE DETAILS

AS2.00

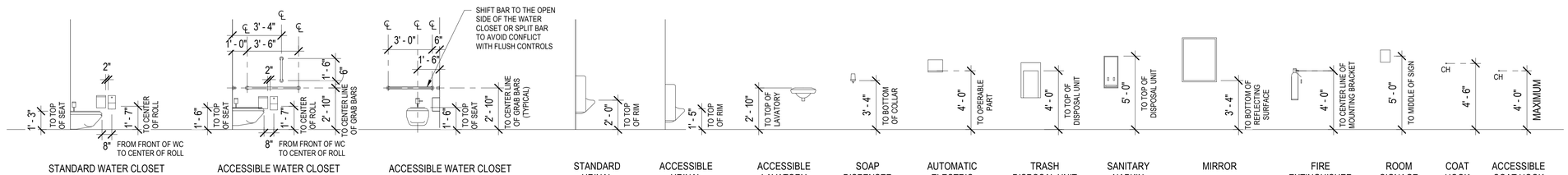
ARCHITECTURAL SYMBOLS AND ABBREVIATIONS

EXIT X / XXX | XXX	SAFETY REFERENCE ROOM INFORMATION TAG
XXX | XXX / EXIT X	SAFETY REFERENCE EXIT INFORMATION TAG
XX	SAFETY REFERENCE EGRESS PATH
	BREAK LINE
X	WINDOW TAG
X	DOOR TAG
N	NORTH ARROW
X / AX.XX	SECTION TAG
X / AX.XX	ELEVATION TAG
X / TITLE / 1'-0" = 1'-0"	DETAIL TAG / DRAWING TITLE
XX	WALL TYPE TAG
X	COLUMN LINE TAG
T/ X / EL: 0'-0"	ELEVATION TAG
X	REMODELING NOTE TAG
X	DEMOLITION NOTE TAG
X	ROOF INSULATION TAGS
ROOM NAME / X	ROOM NAME TAG
	2'X4' RECESSED LED FIXTURE

	RECESSED DOWNLIGHT
	HVAC RETURN GRILLE / EXHAUST
	HVAC SUPPLY DIFFUSER
	S.A.T. CEILING
	PLASTER / GYPSUM BOARD
X	CASEWORK TAG
X / AX.XX	INTERIOR ELEVATION TAG
X / AX.XX	ENLARGED PLAN TAG
X	REVISION TAG

ALT	ALTERNATE
AL	ALUMINUM
AFF	ABOVE FINISHED FLOOR
BCS	BABY CHANGING STATION
CH	COAT HOOK
CONT	CONTINUOUS
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CT	CERAMIC TILE
CMU	CONCRETE MASONRY UNIT
CP	CONDENSATE PIPE
CPT	CARPET
CONC	CONCRETE
CU	CONDENSING UNIT
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DTL	DETAIL
EF	EXHAUST FAN
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC
EP	ELECTRICAL PENETRATION
EQ	EQUAL
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER CHILLER
EX	EXISTING
EXP	EXPOSED
EXT	EXTERIOR
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FLR	FLOOR
FTG	FOOTING
FP	FIRE PROTECTION
GALV	GALVANIZED
GB	GRAB BAR
GL	GLAZING
GP	GAS PIPING
GYP	GYPSUM BOARD
HC	HANDICAPPED ACCESSIBLE
HM	HOLLOW METAL
INT	INTERIOR
JT	JOINT
LAV	LAVATORY
LT	LIGHT
LVR	LOUVER
MAX	MAXIMUM
ME	MATCH EXISTING
MI	MIRROR
MO	MASONRY OPENING
MTL	METAL
MUA	MAKE-UP AIR
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OH	OVERHEAD
OC	ON CENTER
OD	OUTSIDE DIAMETER
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PRT	PORCELAIN TILE
PT	PAINT
PTD	PAPER TOWEL DISPENSER
PTTD	PAPER TOWEL TRASH DISPOSAL
PVC	POLYVINYL CHLORIDE
QT	QUARRY TILE
R	RISER
RB	RUBBER
RBB	RUBBER BASE
RBT	RUBBER TILE FLOORING
RD	ROOF DRAIN
RH	ROOF HATCH
RO	ROUGH OPENING
RTU	ROOFTOP UNIT
RST	RUBBER STAIR TREADS AND RISERS
REF	REFRIGERATOR
SAT	SUSPENDED ACOUSTICAL TILE
SD	SOAP DISPENSER
SGT	STRUCTURAL GLAZED TILE
SIM	SIMILAR
SND	SANITARY NAPKIN DISPOSAL
SNP	SANITARY NAPKIN DISPENSER
STL	STEEL
TDU	TRASH DISPOSAL UNIT
TRZ	TERRAZZO
TTD	TOILET TISSUE DISPENSER
TV	TELEVISION
TYP	TYPICAL
UNF	UNFINISHED
UR	URINAL
VERT	VERTICAL
VIF	VERIFY IN FIELD
VP	VENT PIPE
WC	WATER CLOSET
WD	WOOD
WF	WASH FOUNTAIN
WP	WATER PROOF

TYPICAL MOUNTING HEIGHTS



TRIA ARCHITECTURE

KITCHEN CONSULTANT: edge associates inc. food service design — 459 E. BUTTERFIELD ROAD, SUITE 210, LOMBARD, ILLINOIS 60148 — (P) 855.962.4422

CIVIL CONSULTANT: HRGreen — 1391 CORPORATE BOULEVARD, AURORA, ILLINOIS 60502 — (P) 800.728.7805

LANDSCAPE CONSULTANT: JSD — 450 E. 176TH AVENUE, SUITE 215, CALUMET CITY, ILLINOIS 60409 — (P) 312.644.3379

STRUCTURAL CONSULTANT: Larson Engineering, Inc. — 444 BOND STREET, SUITE 100, LISLE, ILLINOIS 60532-3700 — (P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

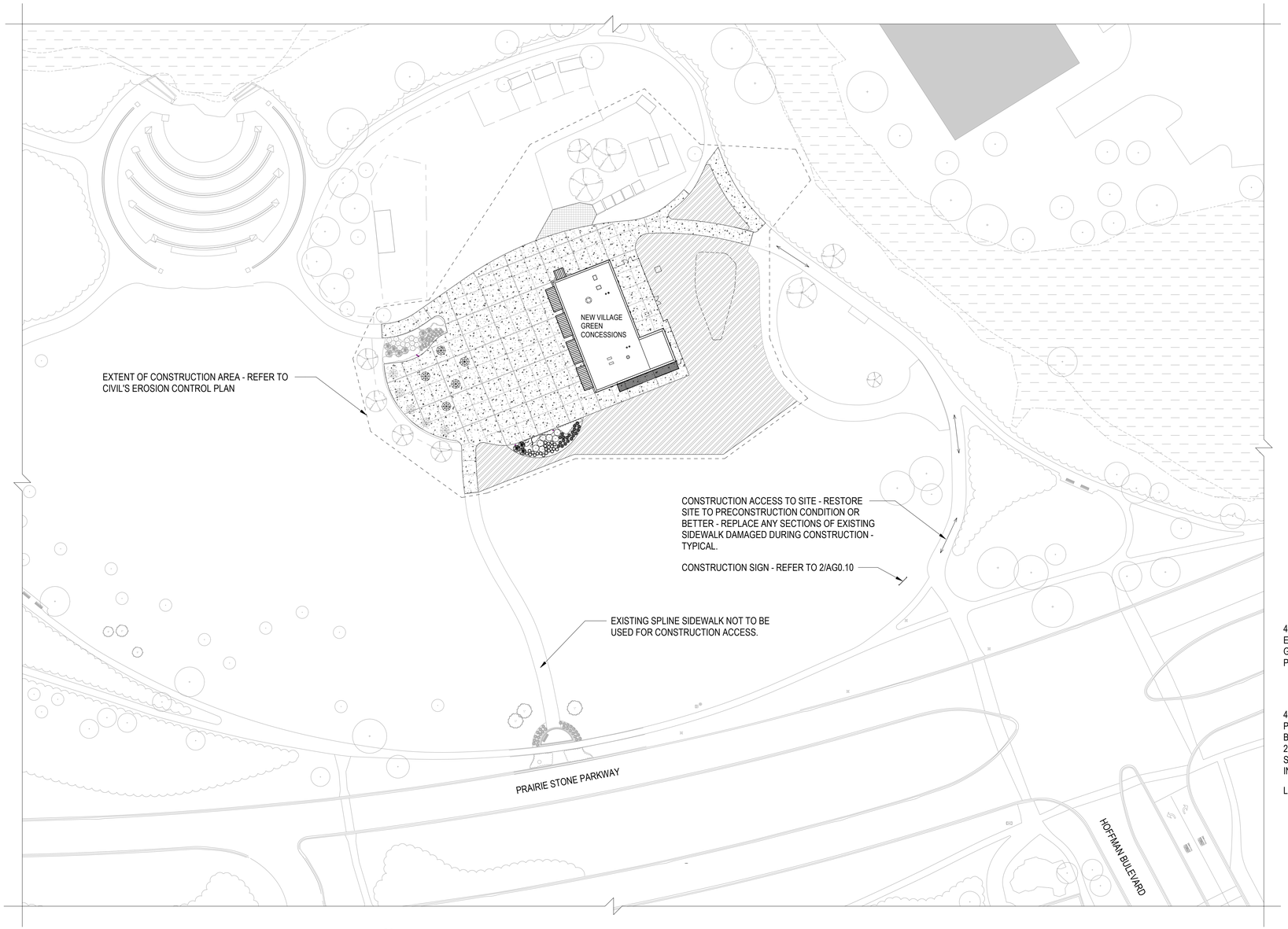
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER:	24-002
PROJECT MANAGER:	PSN
DRAWN BY:	MM & PSN

REVISION	DATE
ISSUE FOR BID & PERMIT	09/05/24

ABBREVIATION, LEGEND & TYPICAL MOUNTING HEIGHTS

AG0.00



1 CONSTRUCTION OPERATIONS SITE PLAN
1" = 40'-0"

GENERAL NOTES

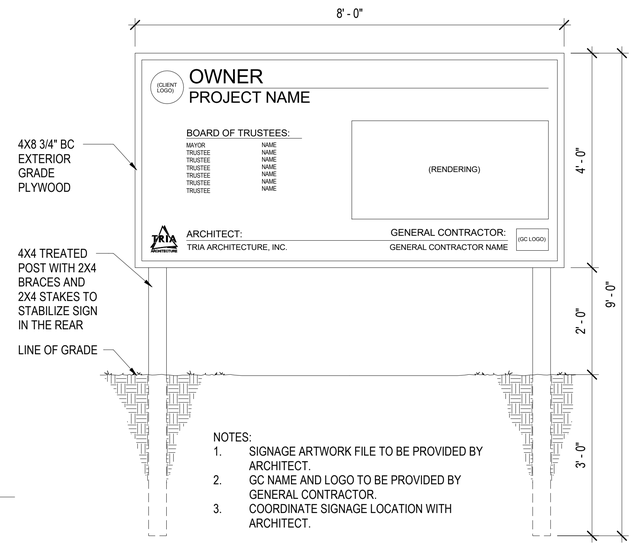
1. CONSTRUCTION SEQUENCING LISTED IS RECOMMENDED. START DATES HAVE BEEN COORDINATED WITH THE OWNERS SCHEDULE. NO WORK MAY BEGIN AT AREAS SHOWN PRIOR TO INDICATED START DATE. CONTRACTOR TO COORDINATE SEQUENCE OF CONSTRUCTION OPERATIONS WITH SUBCONTRACTORS, DESIGN TEAM, AND OWNER PRIOR TO START OF WORK SUCH THAT EQUIPMENT, MATERIALS, AND SURFACES INTENDED TO REMAIN IN USE DO NOT GET REMOVED PREMATURELY.
2. COORDINATE DIRECTLY WITH OWNER TO SECURE ALL CONSTRUCTION ZONES AND TO MAINTAIN SEPARATION FROM NON-CONSTRUCTION ZONES. CONSTRUCTION PARKING LOCATION AND STAGING AREA TO BE COORDINATED IN FIELD.
3. ALL ELECTRICAL WORK SEQUENCING TO BE COORDINATED WITH OWNER FOR SITE ACCESS AND OWNER'S LIGHTING/ POWER FUNCTION NEEDS.
4. FINAL LOCATION OF CONSTRUCTION SIGN TO BE COORDINATED WITH ARCHITECT.

FENCING NOTE

1. PROVIDE 6'-0" HIGH CHAIN LINK TEMPORARY FENCING AS REQUIRED TO ENCLOSE AND SECURE ALL AREAS OF EXTERIOR WORK AT ALL TIMES.
2. CONTRACTOR TO COORDINATE WITH OWNER AND OWNER'S LANDSCAPE CONTRACTOR TO PROVIDE ACCESS TO ALL FENCED AREAS FOR MOWING AND PLOWING.

LEGEND

- NEW CONCRETE PAVIMENT/ WALK - REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION
- NEW GRASS AND LANDSCAPING AREA - REFER TO CIVIL AND LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION
- NEW GRAVEL/ STONE - REFER TO CIVIL DRAWINGS
- POND AND WET LAND AREA
- EXISTING BUILDING



NOTES:
1. SIGNAGE ARTWORK FILE TO BE PROVIDED BY ARCHITECT.
2. GC NAME AND LOGO TO BE PROVIDED BY GENERAL CONTRACTOR.
3. COORDINATE SIGNAGE LOCATION WITH ARCHITECT.

2 CONSTRUCTION SIGN DETAIL
3/4" = 1'-0"

TRIA ARCHITECTURE

KITCHEN CONSULTANT: edge associates inc food service design — 401 E. 75th AVENUE, SUITE 2-3, MERRILLVILLE, ILLINOIS 46410 — (P) 855.962.4422

CIVIL CONSULTANT: HRGreen — 2200 CABOT DRIVE, SUITE 375, LISLE, ILLINOIS 60532 — (P) 800.728.7805

LANDSCAPE CONSULTANT: JSD — 401 E. 75th AVENUE, SUITE 215, CHANNAHON, ILLINOIS 60410 — (P) 312.644.3379

STRUCTURAL CONSULTANT: Larson Engineering, Inc. — 444 BOND STREET, SUITE 100, LOMBARD, ILLINOIS 60148-4000 — (P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

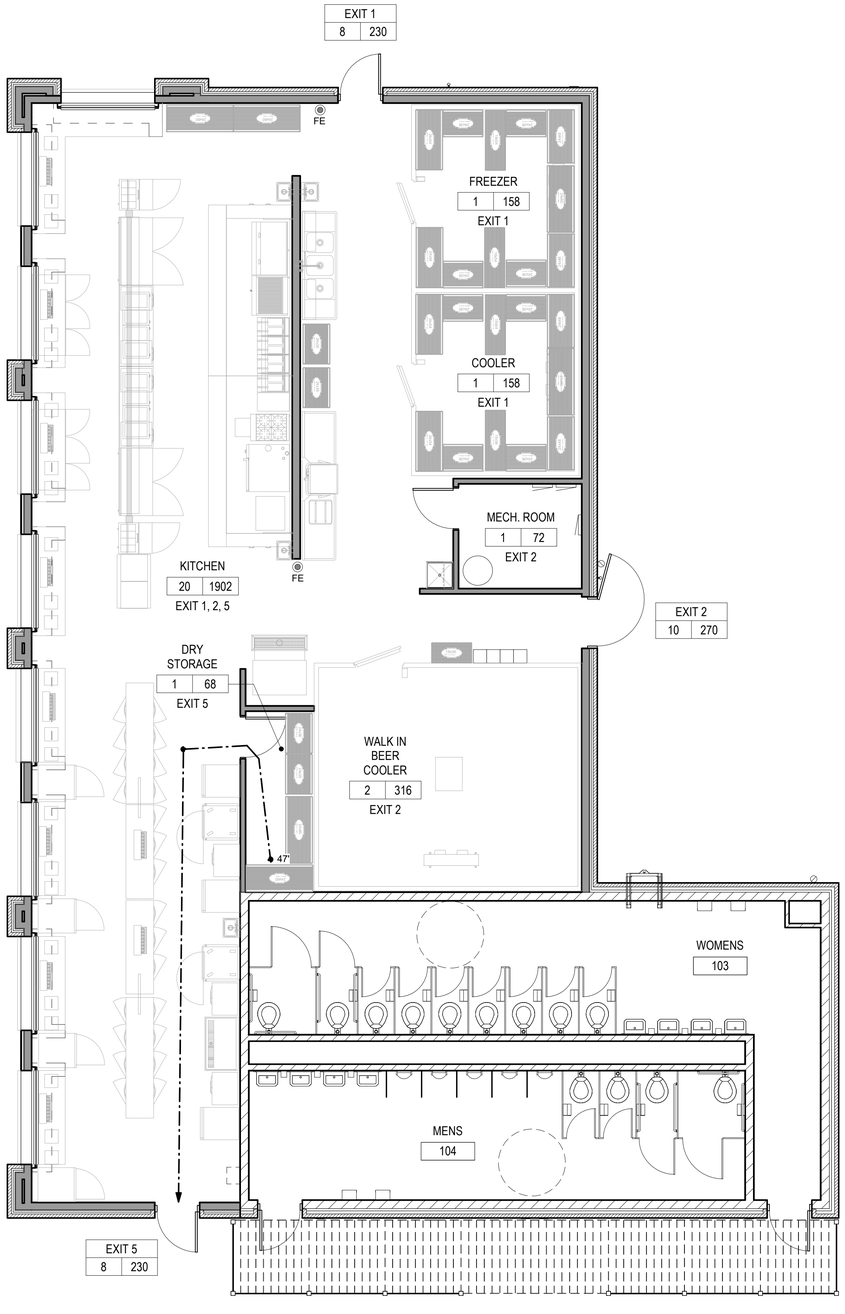
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER:	24-002
PROJECT MANAGER:	PSN
DRAWN BY:	PSN
ISSUE FOR BID & PERMIT:	09/05/24

DATE	REVISION

CONSTRUCTION OPERATIONS SITE PLAN

AG0.10



1 SAFETY REFERENCE PLAN
3/16" = 1'-0"

N

SAFETY REFERENCE LEGEND

OCCUPANCY, AREA (S.F.), EXIT(S) USED, EXIT X	ROOM OCCUPANCY AND EXIT INFORMATION
EXIT NUMBER, EXIT #, EGRESS CAPACITY USED, MAXIMUM EGRESS CAPACITY	EXIT EGRESS
XX'	SAFETY REFERENCE EGRESS PATH AND DISTANCE
FE	FIRE EXTINGUISHER

SAFETY REFERENCE GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH LOCAL AND MUNICIPAL, AND STATE CODES

EGRESS

EXIT ACCESS TRAVEL DISTANCE CALCULATED PER TABLE 1017.2 OF THE 2021 INTERNATIONAL BUILDING CODE

ALL EXIT ACCESS TRAVEL DISTANCE SHALL NOT EXCEED 300 FEET WITH SPRINKLER SYSTEM.

OCCUPANCY

OCCUPANCY LOAD CALCULATED PER TABLE 1004.5 OF THE 2021 INTERNATIONAL BUILDING CODE

KITCHEN	20
MECH. ROOM	1
DRY STORAGE	1
FREEZER	1
COOLER	1
WALK IN BEER COOLER	2
TOTAL OCCUPANCY	26

TRIA ARCHITECTURE

KITCHEN CONSULTANT: edge associates inc. food service design — 451 E. 176th AVENUE, SUITE 215, HOMEWOOD, ILLINOIS 60430 — (P) 855.962.4422

CIVIL CONSULTANT: HRGreen — 2500 SOUTH HIGHLAND AVENUE, SUITE 200, LOMBARD, ILLINOIS 60148 — (P) 800.728.7805

LANDSCAPE CONSULTANT: JSD — 451 E. 176th AVENUE, SUITE 215, HOMEWOOD, ILLINOIS 60430 — (P) 312.644.3379

STRUCTURAL CONSULTANT: Larson Engineering, Inc. — 444 BOND STREET, SUITE 100, LOMBARD, ILLINOIS 60148 — (P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

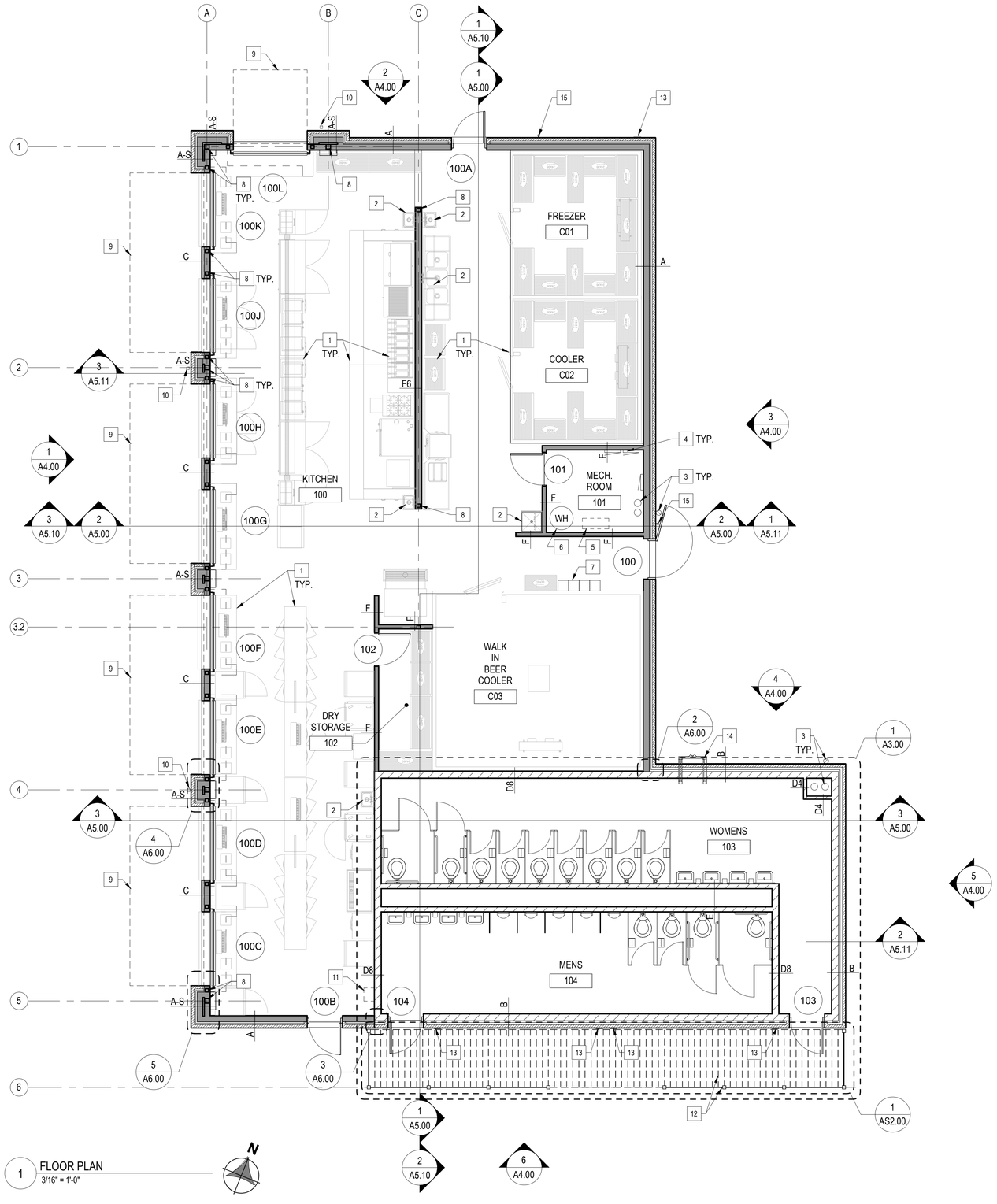
PROJECT NUMBER: 24-002
PROJECT MANAGER: PSN
DRAWN BY: PSN

DATE	REVISION

ISSUE FOR BID & PERMIT: 09/05/24

SAFETY REFERENCE PLAN

AG2.10



1 FLOOR PLAN
3/16" = 1'-0"

FLOOR PLAN GENERAL NOTES

1. ALL CONTRACTORS SHALL REPORT ALL DISCREPANCIES OR DIMENSIONAL QUESTIONS TO THE ATTENTION OF THE ARCHITECT PRIOR TO INSTALLATION.
2. REFER TO PROJECT MANUAL FOR PRODUCTS, MATERIALS, PROCEDURES, AND ADDITIONAL INFORMATION NOT COVERED IN DRAWINGS.
3. PROVIDE LINTELS ABOVE ALL DOORS, PENETRATIONS, LOUVERS, ETC. IN MASONRY WALLS - REFER TO LINTEL SCHEDULE ON STRUCTURAL DRAWINGS - REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL LINTEL LOCATIONS REQUIRED DUE TO DUCT PENETRATIONS, ETC.
4. PROVIDE CONTROL JOINTS IN ALL MASONRY WALLS AS RECOMMENDED BY THE MASONRY ADVISORY COUNCIL, UNLESS NOTED OTHERWISE.
5. REFER TO PLUMBING DRAWINGS FOR LOCATIONS OF ALL FLOOR DRAINS, CLEANOUTS, ETC.
6. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
7. ALL PIPING, DUCTWORK, ELECTRICAL CONDUIT, AND ALL OTHER MECHANICAL, ELECTRICAL, AND PLUMBING ITEMS TO BE FULLY CONCEALED UNLESS NOTED OTHERWISE.

FLOOR PLAN REFERENCED NOTES

1 KITCHEN EQUIPMENT - REFER TO FOOD SERVICE DRAWINGS
2 PLUMBING FIXTURE - REFER TO FOOD SERVICE AND PLUMBING DRAWINGS
3 ROOF DRAIN PIPE AND OVERFLOW COW'S TONGUE - REFER TO EXTERIOR ELEVATION, ROOF PLAN AND PLUMBING DRAWINGS
4 ELECTRICAL PANEL - REFER TO ELECTRICAL DRAWINGS
5 SPRINKLER RISER - REFER TO FIRE PROTECTION DRAWINGS
6 WATER HEATER - REFER TO PLUMBING DRAWINGS
7 LOCKERS - REFER TO SPECIFICATIONS
8 STRUCTURAL COLUMN - REFER TO STRUCTURAL DRAWINGS
9 PREFABRICATED METAL CANOPY SYSTEM WITH INTEGRAL REAR GUTTER - ABOVE
10 PREFINISHED METAL DOWNSPOUT - REFER TO CIVIL AND PLUMBING DRAWINGS
11 NETWORK CABINET ON WALL ABOVE - PROVIDED AND INSTALL BY OWNER.
12 ALUMINUM BATHROOM SCREENING FENCE, TRELLIS AND POST SYSTEM - REFER TO 1/AS2.00
13 BATHROOM SIGNAGE - REFER SHEET A2.00
14 ROOF ACCESS LADDER - REFER TO DRAWING 4/A8.22
15 HOSE BIBB - REFER TO PLUMBING DRAWINGS.

KITCHEN EQUIPMENT NOTES

ALL KITCHEN COUNTERS, FIXTURES, EQUIPMENT - REFER TO FOOD SERVICE SHEETS AND ASSOCIATED MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.

TRIA ARCHITECTURE

KITCHEN CONSULTANT: edge associates inc. food service design (P) 855.962.4422
CIVIL CONSULTANT: HRGreen (P) 800.728.7805
LANDSCAPE CONSULTANT: JSD (P) 312.644.3379
STRUCTURAL CONSULTANT: Larson Engineering, Inc. (P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES
VILLAGE GREEN CONCESSIONS
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER:	24-002
PROJECT MANAGER:	PSN
DRAWN BY:	MM & PSN
ISSUE FOR BID & PERMIT:	09/05/24

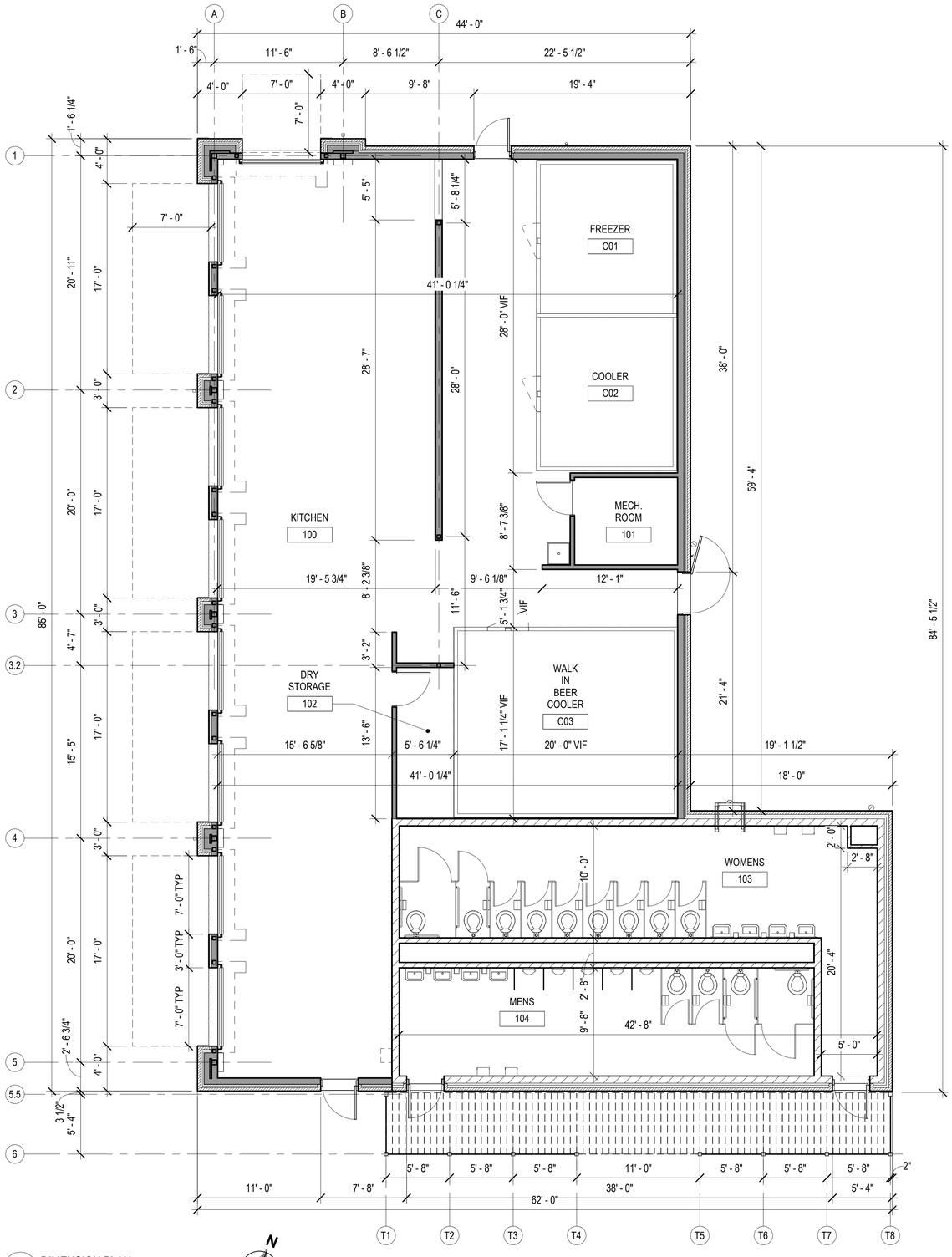
DATE | REVISION

FLOOR PLAN

A1.10

DIMENSION PLAN GENERAL NOTES

1. DIMENSIONS SHOWN FOR REFERENCE ONLY - GENERAL CONTRACTOR TO VERIFY AND COORDINATE ALL LAYOUTS AMONG ALL TRADES AFFECTED - NOTIFY ARCHITECT OF ANY CONFLICTS PRIOR TO INSTALLATION BY ANY TRADE.
2. TRELLIS POST SPACING DIMENSIONS - REFER TO DRAWING 1/AS2.00.



1 DIMENSION PLAN
3/16" = 1'-0"

TRIA ARCHITECTURE

KITCHEN CONSULTANT:
sdge associates inc
food service design
(P) 855.962.4422

CIVIL CONSULTANT:
HRGreen
(P) 800.728.7805

LANDSCAPE CONSULTANT:
JSD
(P) 312.644.3379

STRUCTURAL CONSULTANT:
Larson Engineering, Inc.
(P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER:	24-002
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REVISION	DATE

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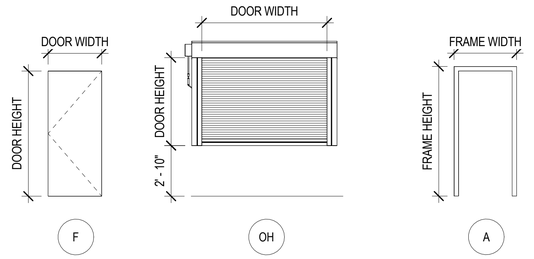
DIMENSION PLAN

A1.11

DOOR AND FRAME SCHEDULE

OPN'G NO.	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR TYPE	DOOR MAT'L	DOOR HDWR SET	DOOR PROT. RATING HRS	FRAME SIZE WIDTH	FRAME SIZE FRAME	FRAME TYPE	FRAME MAT'L	FRAME PROT. RATING HRS	FRAME REF. NOTES	FRAME DETAILS HEAD	FRAME DETAILS JAMB	FRAME DETAILS JAMB	FRAME DETAILS SILL	ROOM TYPE
100	3' - 6"	7' - 0"	F	HM	2	-	3'-10"	7'-4"	A	HM	-	1, 2	1/A2.11	2/A2.11	2/A2.11 SIM	13/A2.10	KITCHEN
100A	3' - 0"	7' - 0"	F	HM	3	-	3'-4"	7'-4"	A	HM	-	1	5/A2.10	9/A2.10	9/A2.10	13/A2.10	KITCHEN
100B	3' - 0"	7' - 0"	F	HM	3	-	3'-4"	7'-4"	A	HM	-	1	5/A2.10	9/A2.10	9/A2.10	13/A2.10	KITCHEN
100C	7' - 0"	4' - 8"	OH	STL	1		-	-	-	-	-	-	10/A2.10	3/A2.10	4/A2.10	14/A2.10	KITCHEN
100D	7' - 0"	4' - 8"	OH	STL	1		-	-	-	-	-	-	10/A2.10	4/A2.10	3/A2.10	14/A2.10	KITCHEN
100E	7' - 0"	4' - 8"	OH	STL	1		-	-	-	-	-	-	10/A2.10	3/A2.10	4/A2.10	14/A2.10	KITCHEN
100F	7' - 0"	4' - 8"	OH	STL	1		-	-	-	-	-	-	10/A2.10	4/A2.10	3/A2.10	14/A2.10	KITCHEN
100G	7' - 0"	4' - 8"	OH	STL	1		-	-	-	-	-	-	10/A2.10	3/A2.10	4/A2.10	14/A2.10	KITCHEN
100H	7' - 0"	4' - 8"	OH	STL	1		-	-	-	-	-	-	10/A2.10	4/A2.10	3/A2.10	14/A2.10	KITCHEN
100J	7' - 0"	4' - 8"	OH	STL	1		-	-	-	-	-	-	10/A2.10	3/A2.10	4/A2.10	14/A2.10	KITCHEN
100K	7' - 0"	4' - 8"	OH	STL	1		-	-	-	-	-	-	10/A2.10	4/A2.10	3/A2.10	14/A2.10	KITCHEN
100L	7' - 0"	4' - 8"	OH	STL	1		-	-	-	-	-	-	10/A2.10	4/A2.10	4/A2.10	14/A2.10	KITCHEN
101	3' - 0"	7' - 0"	F	HM	6	-	3'-4"	7'-2"	A	HM	-	-	8/A2.10	12/A2.10	15/A2.10	-	MECHANICAL
102	3' - 0"	7' - 0"	F	HM	5	-	3'-4"	7'-2"	A	HM	-	-	8/A2.10	12/A2.10	16/A2.10	-	DRY STORAGE
103	3' - 0"	7' - 0"	F	HM	4	-	3'-4"	7'-4"	A	HM	-	1	7/A2.10	11/A2.10	11/A2.10	13/A2.10	WOMENS
104	3' - 0"	7' - 0"	F	HM	4	-	3'-4"	7'-4"	A	HM	-	1	7/A2.10	11/A2.10	11/A2.10	13/A2.10	MENS



DOOR TYPES
N.T.S.

FRAME TYPE
N.T.S.

DOOR AND FRAME GENERAL NOTES

1. CONTRACTOR TO VERIFY DIMENSIONS, QUANTITIES, AND CONDITIONS OF ALL ROUGH OPENINGS IN FIELD.
2. REFER TO WALL TYPES FOR WALL CONSTRUCTION AT DOOR LOCATIONS.
3. REFER TO SPECIFICATIONS FOR DESCRIPTIONS OF HARDWARE SETS.
4. GROUT JAMBS SOLID AT ALL FRAMES INSTALLED IN MASONRY OPENINGS.
5. ALL EXPOSED ANCHORS ON HOLLOW METAL FRAMES ARE TO BE COUNTERSUNK INTO FRAMES, COVERED IN BONDO, SANDED SMOOTH, AND PAINTED.
6. REFER TO STRUCTURAL DRAWINGS FOR LINTEL INFORMATION.
7. HEIGHT OF DOOR OPERATING HARDWARE SHALL BE NO LESS THAN 34" AND NO MORE THAN 48" ABOVE FINISHED FLOOR. COORDINATE EXACT HEIGHT WITH OWNER AND ARCHITECT.
8. DOOR HARDWARE SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST TO OPERATE.
9. DOOR OPERATING FORCE SHALL NOT EXCEED:
   EXTERIOR HINGED DOORS: 8.5 LB
   INTERIOR HINGED DOORS: 5 LB

DOOR AND FRAME ABBREVIATIONS

HM	HOLLOW METAL	VIF	VERIFY IN FIELD
SIM	SIMILAR	STL	STEEL
TYP	TYPICAL	OPP	OPPOSITE

SIGNAGE NOTES

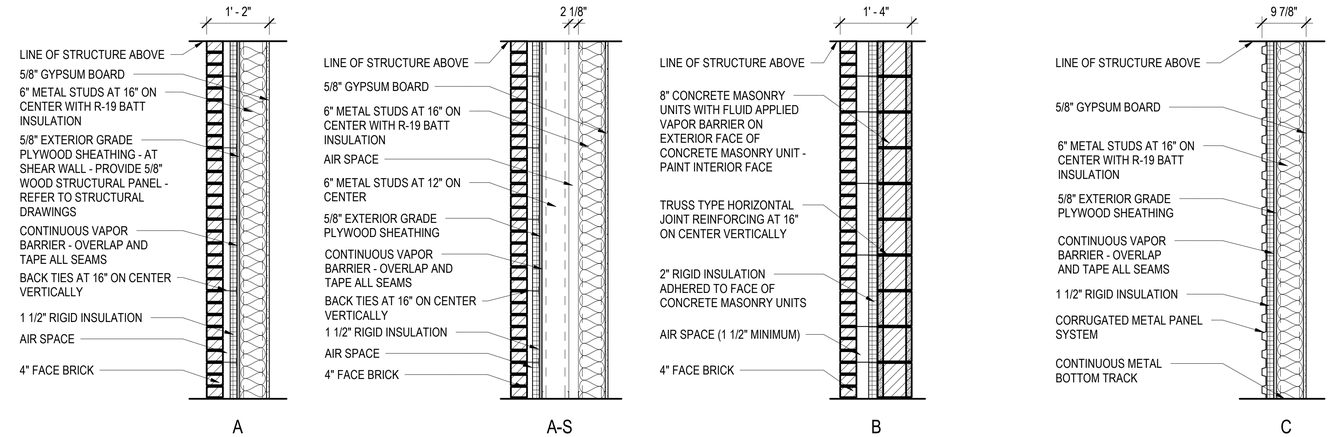
1. PROVIDE IDENTIFICATION SIGNAGE WITH BRAILLE DESIGNATION ON WALLS ADJACENT TO LATCH SIDE OF ALL RESTROOM DOORS AS WELL AS LOCATIONS INDICATED ON FLOOR PLAN AND ELEVATION.
2. MOUNT SIGNS AT 60" ABOVE FINISHED FLOOR TO CENTER LINE OF SIGN AND 2" OFF DOOR FRAME ON WALL.

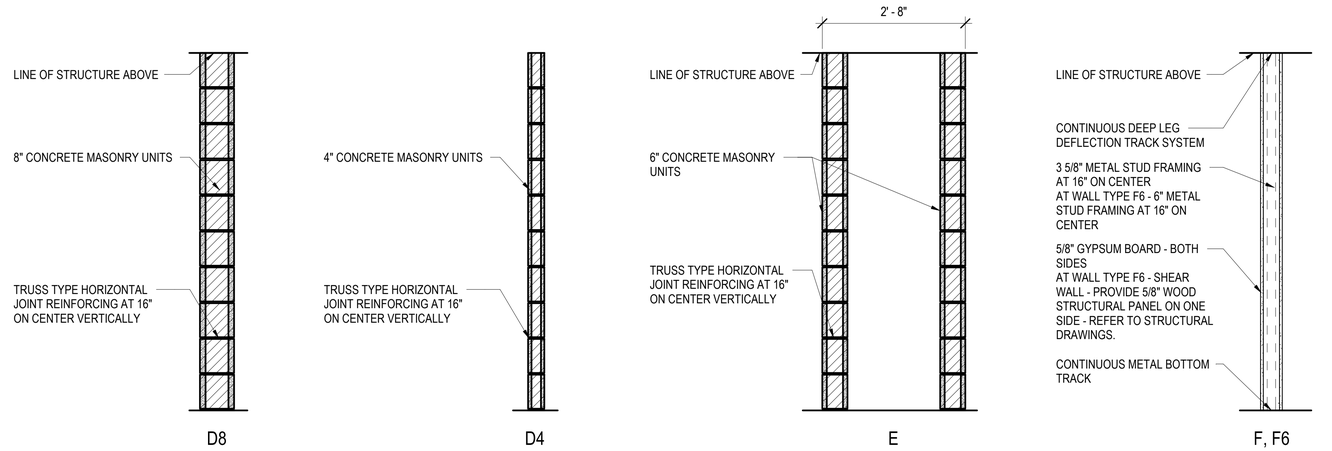
WALL TYPE GENERAL NOTES

1. PROVIDE HORIZONTAL REINFORCING AT FIRST TWO COURSES AT TOP AND BOTTOM OF WALLS AND ABOVE AND BELOW ALL MASONRY OPENINGS.
2. WALL TYPES EXTEND ABOVE AND BELOW ADJACENT OPENINGS UNLESS NOTED OTHERWISE.
3. WALL TYPES TO EXTEND UP AND AROUND ALL INTERFERENCES TO UNDERSIDE OF ROOF DECK ABOVE.

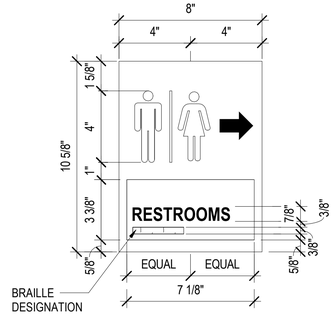
DOOR AND FRAME REFERENCED NOTES

1. PROVIDE METAL KICK PLATE (10" X 34") ON PUSH SIDE.
2. PROVIDE 180 DEGREE HINGE - SET HOLD OPEN TO 165 DEGREE AND INSTALL FLOOR STOP - VERIFY IN FIELD HOLD OPEN EXTENT AND FLOOR STOP LOCATION SO DOOR DOES NOT HIT COW'S TONGUE OVERFLOW DRAIN AND HOSE BIBB.

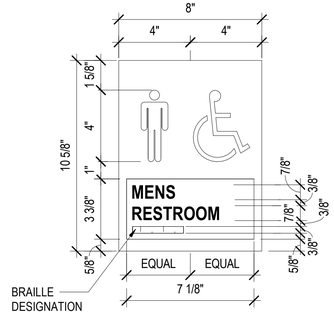




WALL TYPES
N.T.S.



1 TYPE (A) ROOM SIGN
3" = 1'-0"



2 TYPE (B) ROOM SIGN
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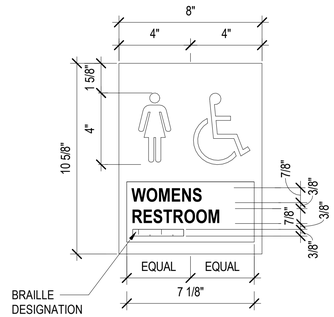

4 TYPE (C) ROOM SIGN
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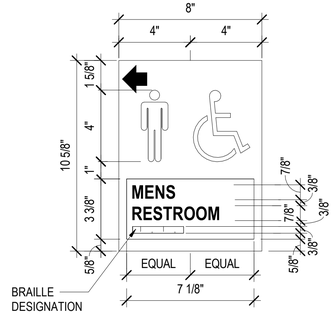

3 TYPE (BA) ROOM SIGN
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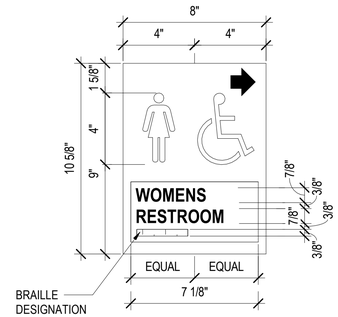

5 TYPE (CA) ROOM SIGN
3" = 1'-0"

TRIA ARCHITECTURE

KITCHEN CONSULTANT:
edge associates inc
food service design
(P) 855.962.4422

CIVIL CONSULTANT:
HRGreen
(P) 800.728.7805

LANDSCAPE CONSULTANT:
JSD
(P) 312.644.3379

STRUCTURAL CONSULTANT:
Larson Engineering, Inc.
(P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES
VILLAGE GREEN CONCESSIONS
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

DATE	REVISION

PROJECT NUMBER: 24-002
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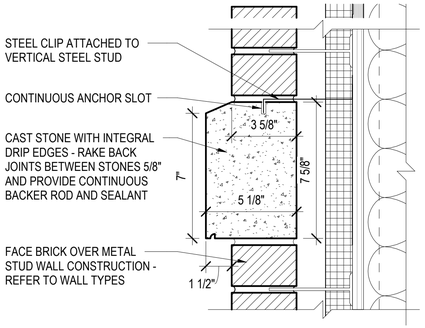
ISSUE FOR BID & PERMIT: 09/05/24

DOOR AND FRAME SCHEDULE, DOOR, FRAME, WALL TYPES AND SIGNAGE DETAILS

A2.00



1 CAST STONE DETAIL
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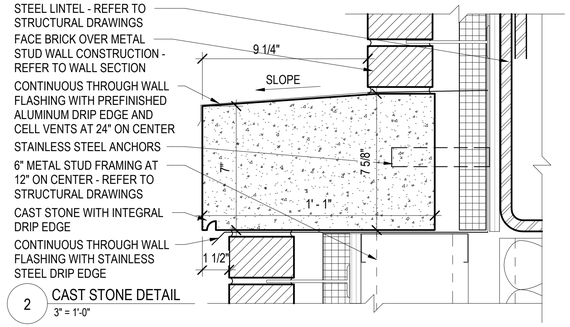

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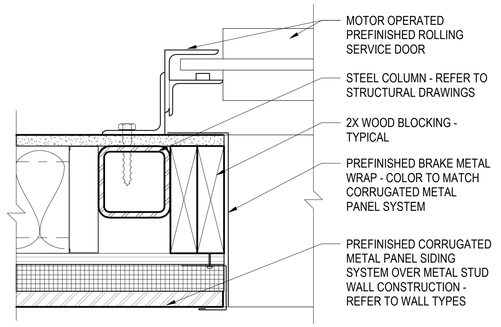

3 JAMB DETAIL
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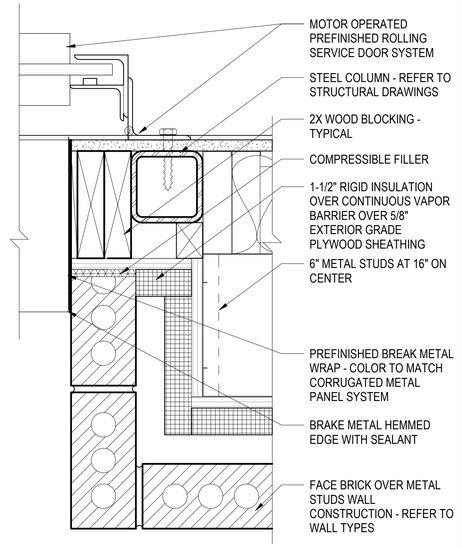

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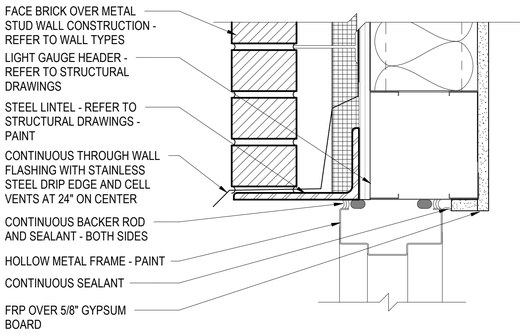
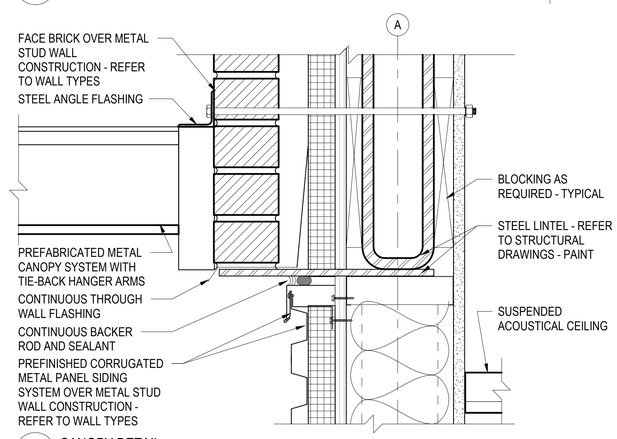


5 HEAD DETAIL
3" = 1'-0"



6 CANOPY DETAIL
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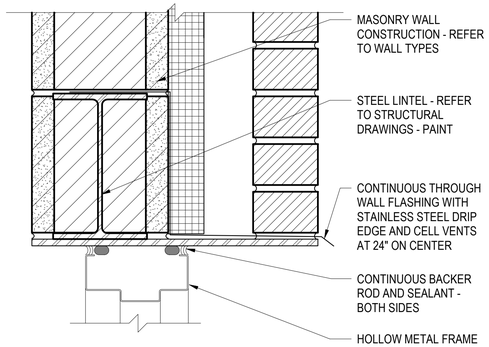
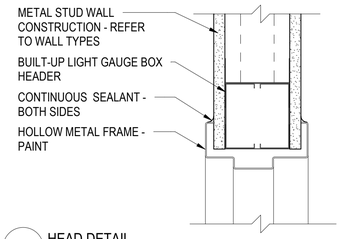


7 HEAD DETAIL
3" = 1'-0"



8 HEAD DETAIL
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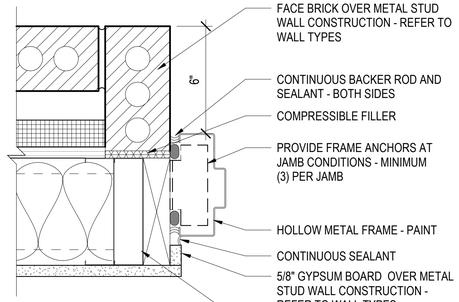

9 JAMB DETAIL
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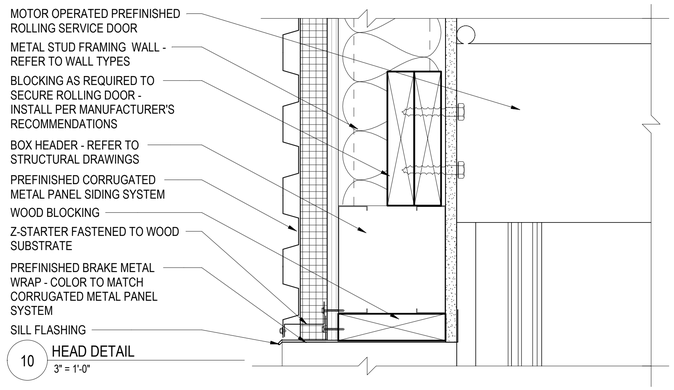
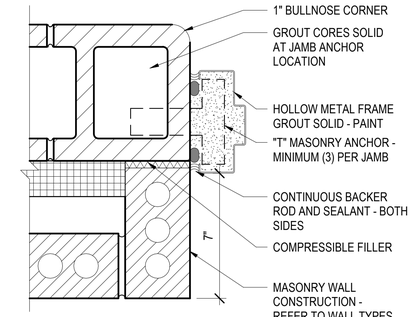
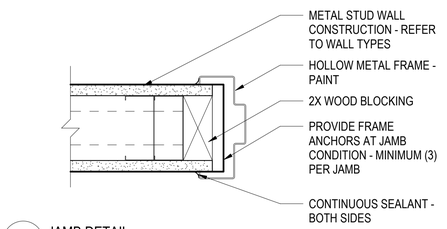


10 HEAD DETAIL
3" = 1'-0"



11 JAMB DETAIL
3" = 1'-0"



12 JAMB DETAIL
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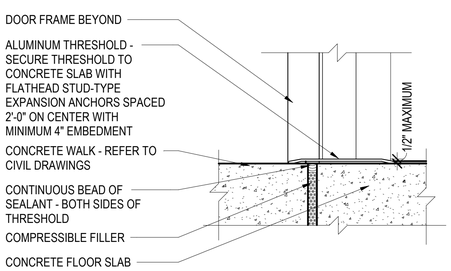
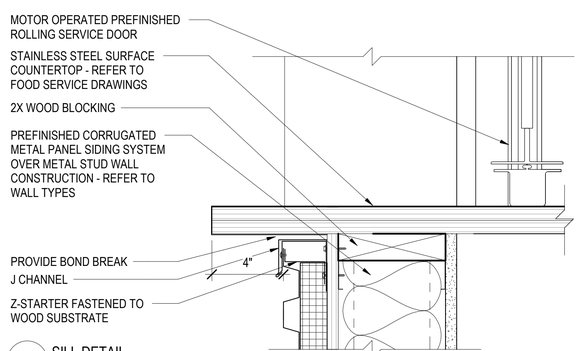


NOTES:
1. MAXIMUM GAP BETWEEN BOTTOM OF DOOR AND TOP OF SILL TO BE 1/4".
2. SLOPE OF THRESHOLD BEVELS SHALL NOT BE GREATER THAN 1:2.

13 SILL DETAIL
3" = 1'-0"



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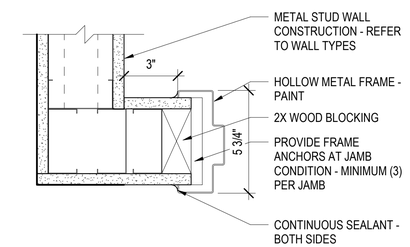

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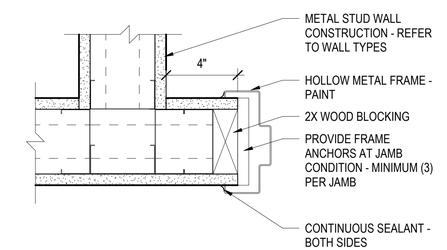
3" = 1'-0"



16 JAMB DETAIL
3" = 1'-0"

TRIA ARCHITECTURE
KITCHEN CONSULTANT: sdge associates inc food service design (P) 855.962.4422
CIVIL CONSULTANT: HRGreen (P) 800.728.7805
LANDSCAPE CONSULTANT: JSD (P) 312.644.3379
STRUCTURAL CONSULTANT: Larson Engineering, Inc. (P) 630.357.0540

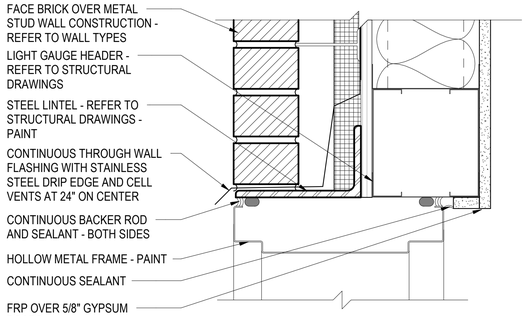
VILLAGE OF HOFFMAN ESTATES
VILLAGE GREEN CONCESSIONS
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

DATE	REVISION

PROJECT NUMBER: 24-002
PROJECT MANAGER: PSN
DRAWN BY: MM & PSN
ISSUE FOR BID & PERMIT: 09/05/24

FRAME DETAILS

A2.10



1 HEAD DETAIL
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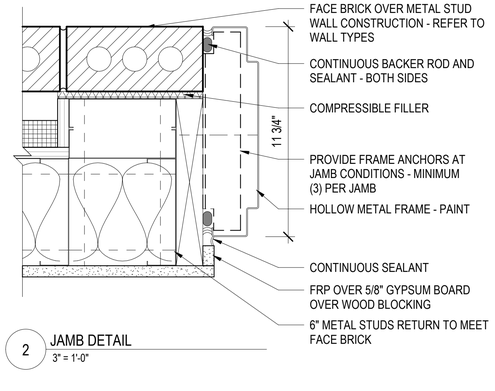

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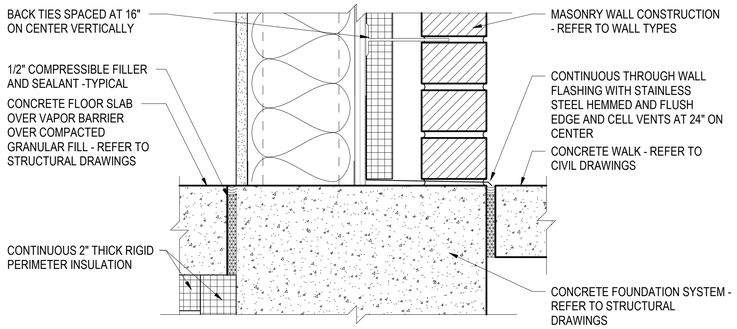
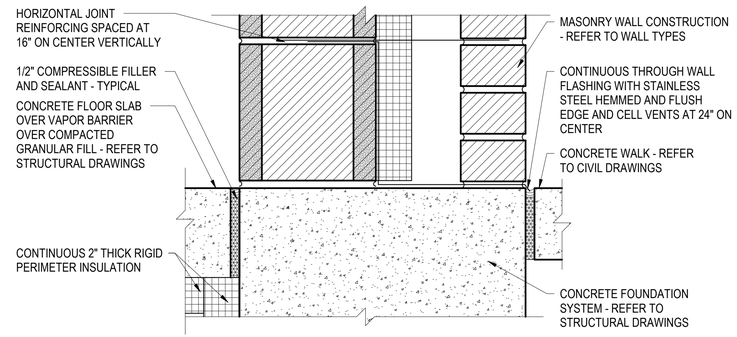
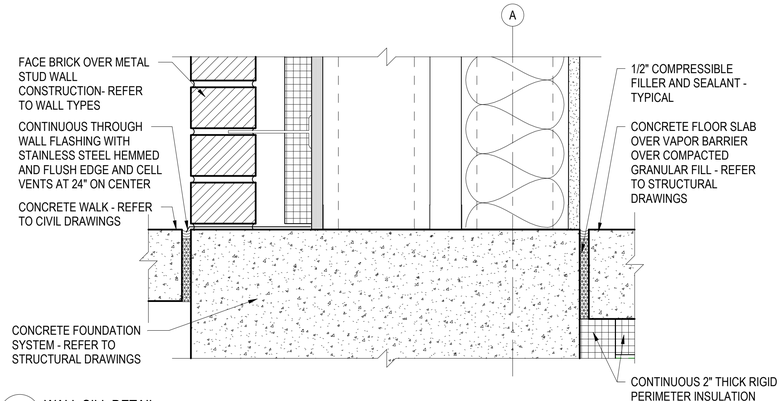


3 WALL SILL DETAIL
3" = 1'-0"



4 WALL SILL DETAIL
3" = 1'-0"



5 WALL SILL DETAIL
3" = 1'-0"

TRIA ARCHITECTURE

KITCHEN CONSULTANT: edge associates inc. food service design (P) 855.962.4422

CIVIL CONSULTANT: HRGreen (P) 800.728.7805

LANDSCAPE CONSULTANT: JSD (P) 312.644.3379

STRUCTURAL CONSULTANT: Larson Engineering, Inc. (P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

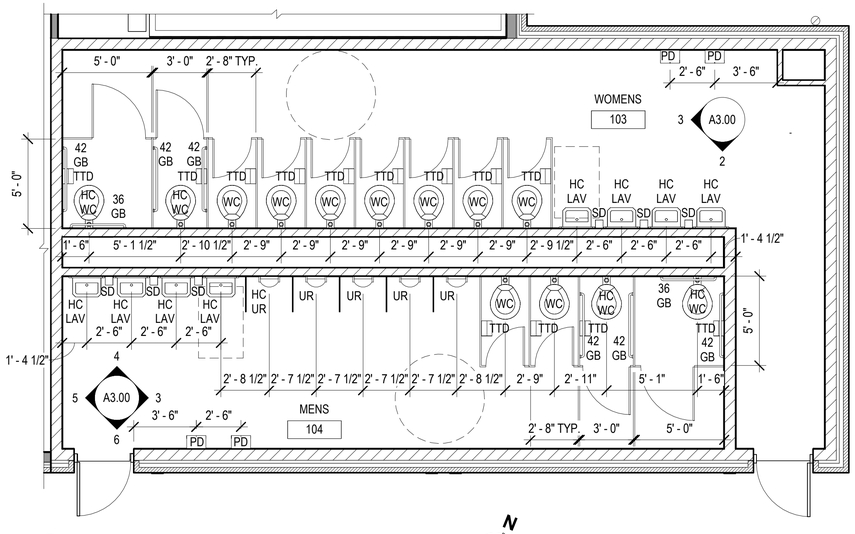
PROJECT NUMBER: 24-002
PROJECT MANAGER: PSN
DRAWN BY: PSN

REVISION	DATE

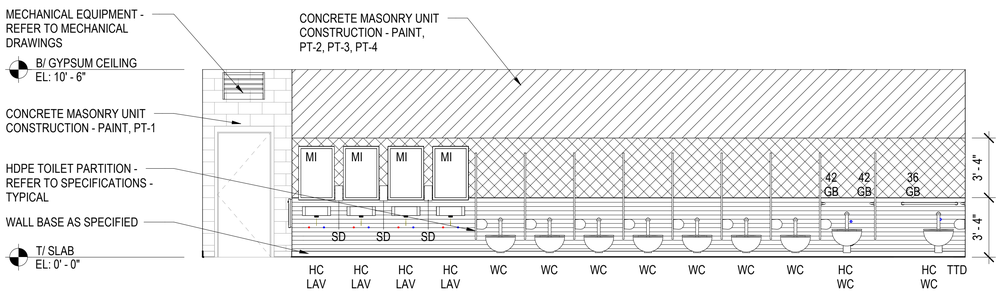
ISSUE FOR BID & PERMIT: 06/05/24

FRAME AND SILL DETAILS

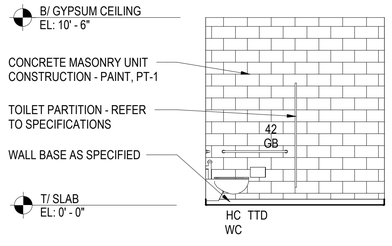
A2.11



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



2 INTERIOR ELEVATION
1/4" = 1'-0"



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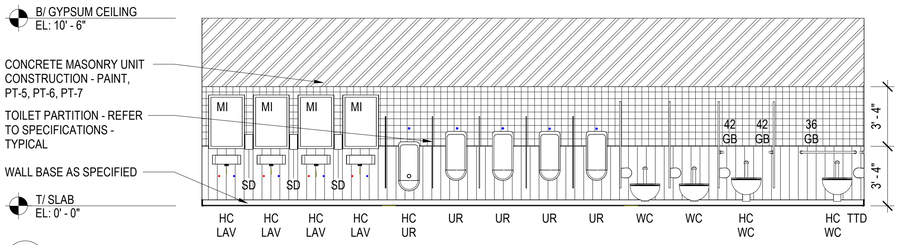
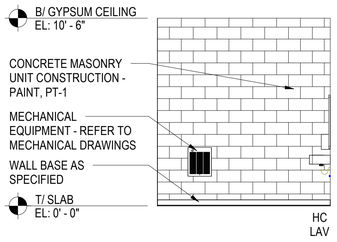
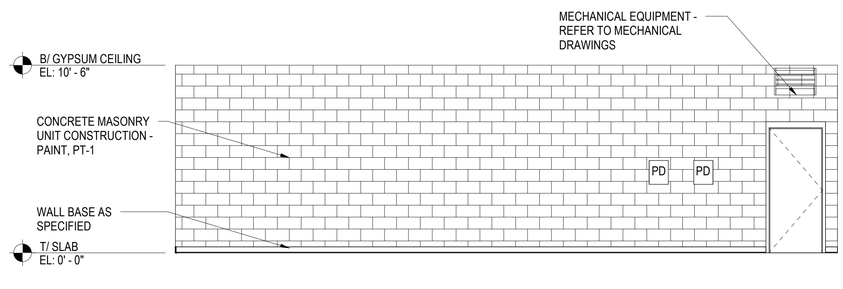
1/4" = 1'-0"



4 INTERIOR ELEVATION
1/4" = 1'-0"



5 INTERIOR ELEVATION
1/4" = 1'-0"



6 INTERIOR ELEVATION
1/4" = 1'-0"

ABBREVIATIONS

HC LAV	ACCESSIBLE LAVATORY
HC UR	ACCESSIBLE URINAL
HC WC	ACCESSIBLE WATER CLOSET
UR	URINAL
WC	WATER CLOSET
PD	PAPER TOWEL DISPENSER
MI	MIRROR
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPOSAL
TDU	TRASH DISPOSAL UNIT
TTD	TOILET TISSUE DISPENSER
FD	FLOOR DRAIN
OH	OPPOSITE HAND

LEGEND

- 60" DIAMETER TURNING RADIUS
- 48" X 30" CLEAR FLOOR SPACE
- 36" GRAB BAR (36 GB)
- 42" GRAB BAR (42 GB)
- PT-2 (BENJAMIN MOORE CSP-1130, TUSCAN TILE)
- PT-3 (BENJAMIN MOORE CSP-135, CORAL BELLS)
- PT-4 (BENJAMIN MOORE CSP-140, EGYPTIAN CLAY)
- PT-5 (BENJAMIN MOORE CSP-710, TROPICAL OASIS)
- PT-6 (BENJAMIN MOORE CSP-715, FAIR ISLE BLUE)
- PT-7 (BENJAMIN MOORE CSP-720, DARK HARBOR)

TRIA ARCHITECTURE

KITCHEN CONSULTANT: JSD
401 E. 75th AVENUE, SUITE 215, DARIEN, ILLINOIS 60561 (P) 312.644.3379

CIVIL CONSULTANT: HRGreen
1220 TOWER ROAD, SCHAUMBURG, ILLINOIS 60173 (P) 800.759.7805

LANDSCAPE CONSULTANT: edge associates inc. tree service design
251 W. BUTTERFIELD ROAD, SUITE 215, ELMHURST, ILLINOIS 60126 (P) 855.962.4422

STRUCTURAL CONSULTANT: Larson Engineering, Inc.
444 BAKER STREET, SUITE 100, BARTLETT, ILLINOIS 60103 (P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

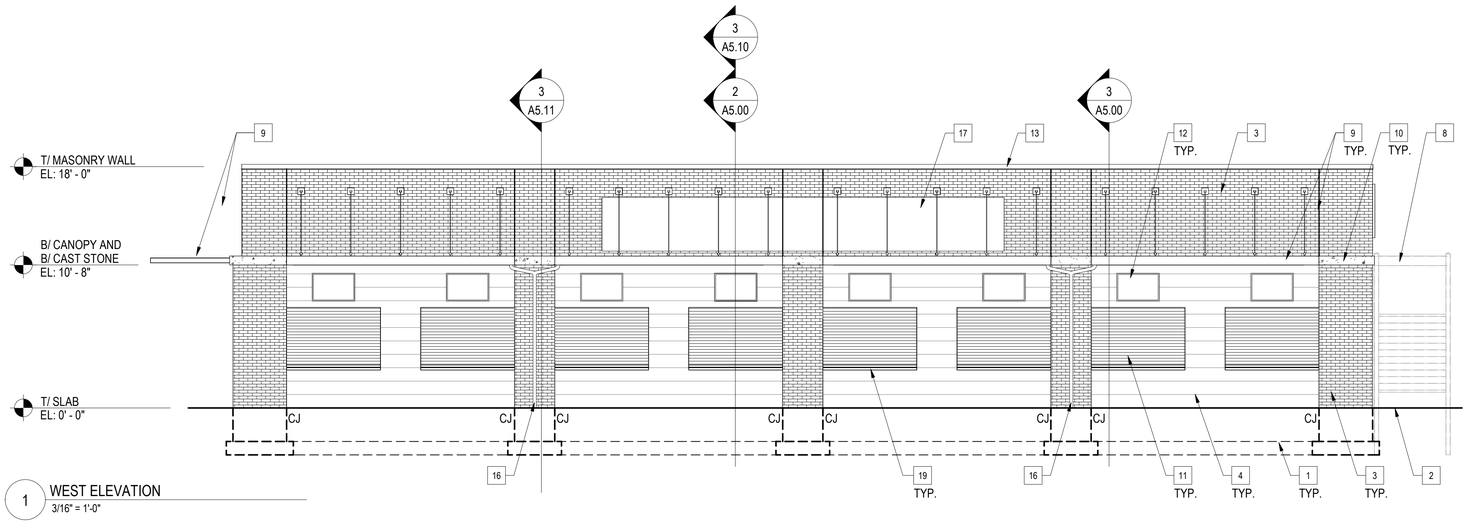
PROJECT NUMBER:	24-002
PROJECT MANAGER:	PSN
DRAWN BY:	MM & PSN

ISSUE FOR BID & PERMIT:	09/05/24

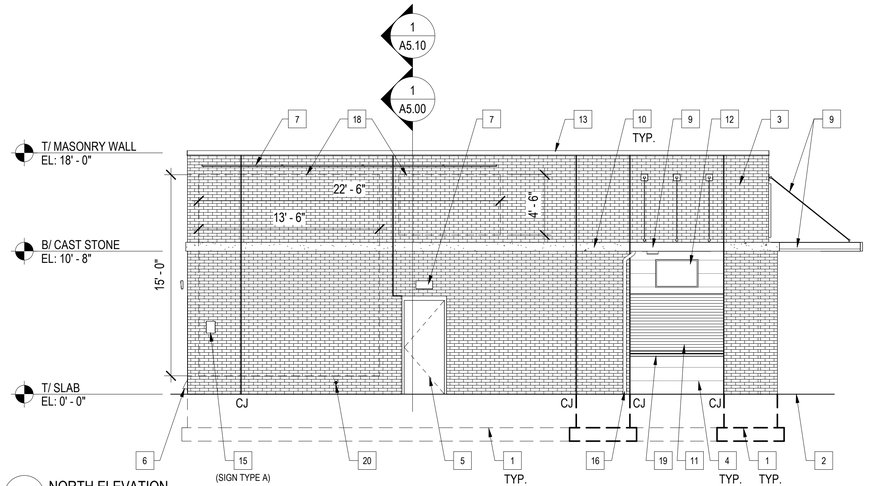
REVISION	DATE

ENLARGED FLOOR PLAN AND INTERIOR ELEVATIONS

A3.00



1 WEST ELEVATION
3/16" = 1'-0"



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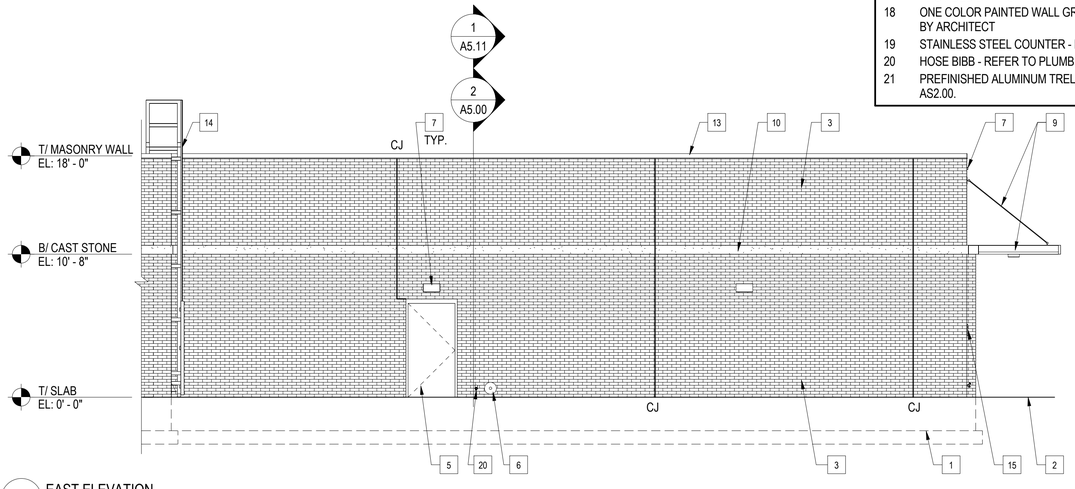
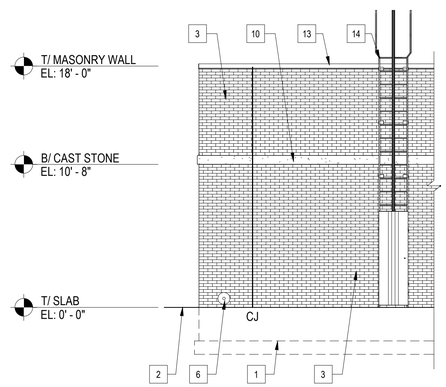
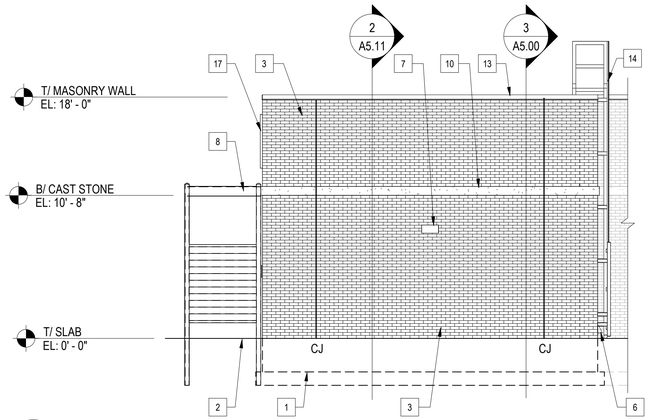


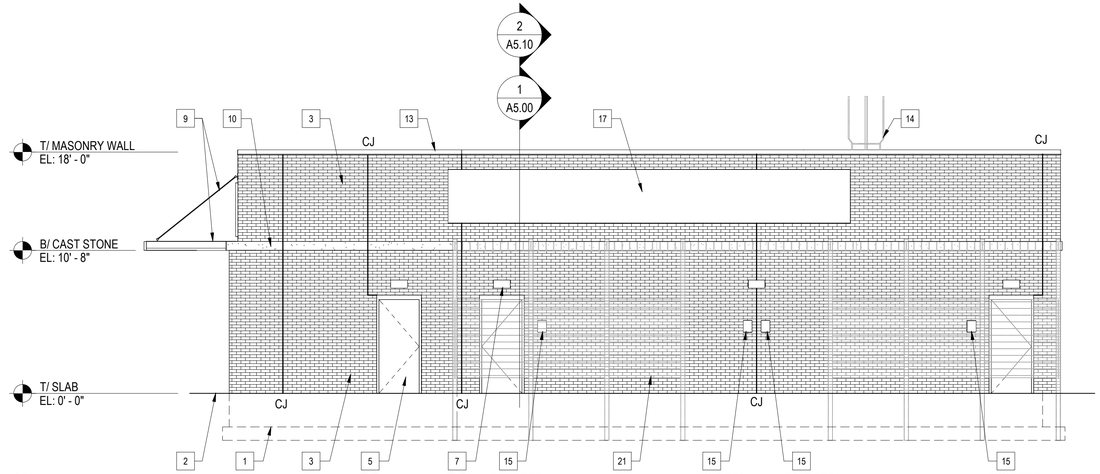
3 EAST ELEVATION
3/16" = 1'-0"



4 NORTH ELEVATION
3/16" = 1'-0"



5 EAST ELEVATION
3/16" = 1'-0"



6 SOUTH ELEVATION
3/16" = 1'-0"

LOUVER NOTES

1. LOCATIONS OF EXTERIOR LOUVERS ARE SHOWN FOR REFERENCE ONLY.
2. PROVIDE LINTEL AT ALL OPENINGS - REFER TO STRUCTURAL DRAWINGS.

LEGEND

- FACE BRICK
- PREFINISHED CORRUGATED METAL SIDING SYSTEM
- CAST STONE BAND

EXTERIOR ELEVATION GENERAL NOTES

1. PROVIDE VERTICAL CONTROL JOINTS (C.J.) AT BRICK VENEER, TYPICAL - 24" FROM ONE SIDE OF ANY CORNER (MINIMUM) AND 25'-0" ON CENTER (MAXIMUM) - REFER TO DETAIL 1/A6.00.

EXTERIOR ELEVATION REFERENCED NOTES

1 CONCRETE FOUNDATION SYSTEM - REFER TO STRUCTURAL DRAWINGS
2 LINE OF CONCRETE WALK
3 4" FACE BRICK VENEER
4 PREFINISHED CORRUGATED METAL PANEL SIDING SYSTEM.
5 HOLLOW METAL DOOR AND FRAME - PAINT
6 COW'S TONGUE PIPE DISCHARGE - REFER TO PLUMBING DRAWINGS
7 <varies>
8 ALUMINUM SCREEN AND TRELLIS - REFER TO SHEET AS2.00
9 PREFABRICATED METAL CANOPY SYSTEM WITH STRUCTURAL SUPPORT ROD, INTEGRAL REAR GUTTER AND RECESSED LIGHTING
10 CAST STONE ACCENT BAND
11 MOTOR OPERATED ROLLING COUNTER DOOR
12 TV SCREEN - SUPPLIED BY OWNER AND INSTALLED BY GC
13 PREFINISHED METAL COPING
14 ROOF LADDER - REFER TO SPECIFICATIONS AND ROOFING DRAWINGS
15 BATHROOM SIGN - REFER TO SHEET A2.00.
16 PREFINISHED METAL DOWNSPOUT - REFER TO PLUMBING DRAWINGS
17 30'X4' BOX WALL SIGN LED ILLUMINATED - ARTWORK FILE TO BE PROVIDED BY ARCHITECT
18 ONE COLOR PAINTED WALL GRAPHIC - ARTWORK FILE TO BE PROVIDED BY ARCHITECT
19 STAINLESS STEEL COUNTER - REFER TO FOOD SERVICE DRAWINGS.
20 HOSE BIBB - REFER TO PLUMBING DRAWINGS.
21 PREFINISHED ALUMINUM TRELLIS AND SCREEN - REFER TO SHEET AS2.00.

TRIA ARCHITECTURE
KITCHEN CONSULTANT: JSD
CIVIL CONSULTANT: HR Green (P) 800.728.7805
LANDSCAPE CONSULTANT: edge associates inc. (P) 312.644.3379
STRUCTURAL CONSULTANT: Larson Engineering, Inc. (P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

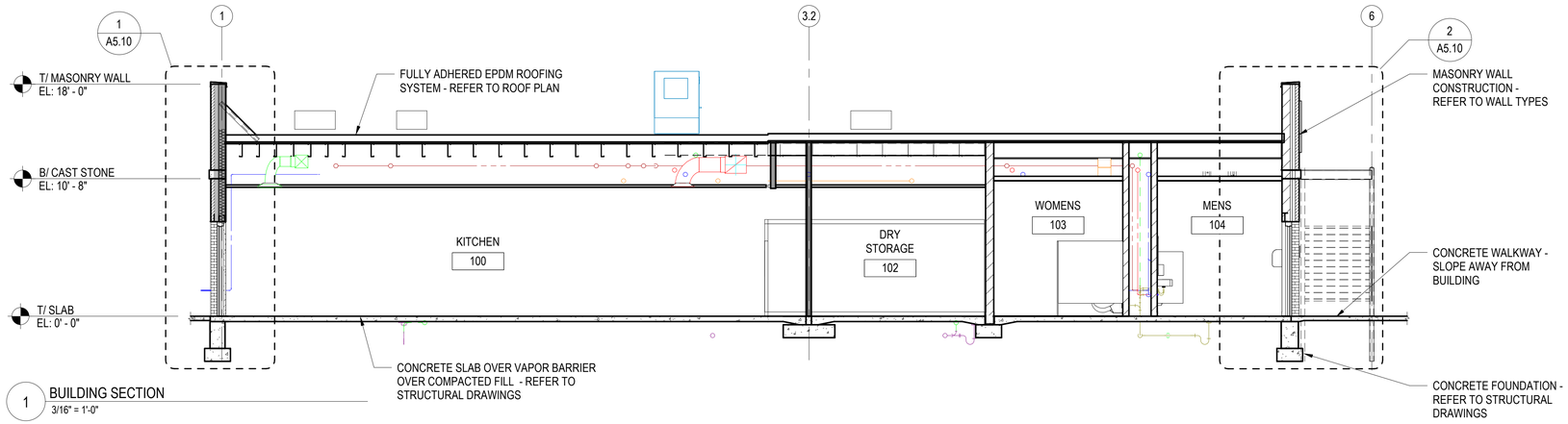
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

DATE	REVISION

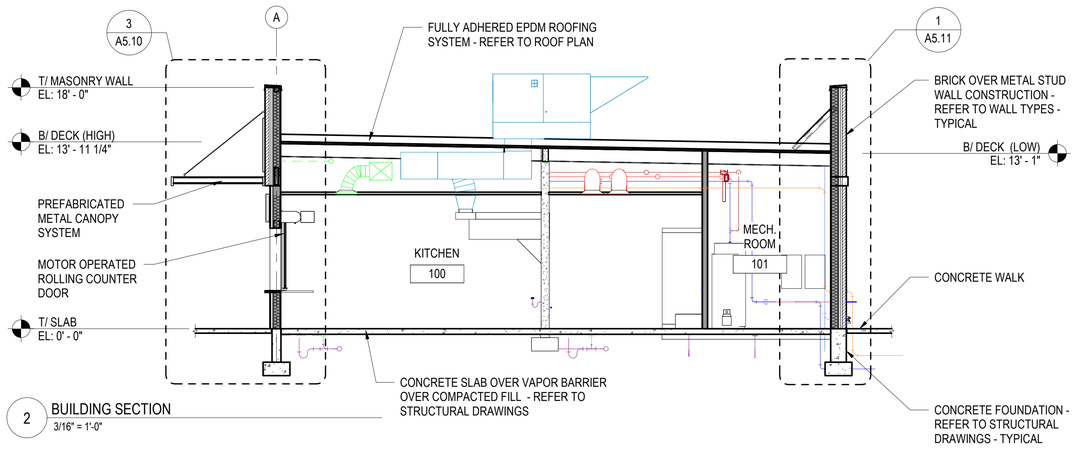
PROJECT NUMBER: 24-002
PROJECT MANAGER: PSN
DRAWN BY: MM & PSN
ISSUE FOR BID & PERMIT: 09/05/24

EXTERIOR ELEVATIONS

A4.00



1 BUILDING SECTION
3/16" = 1'-0"



2 BUILDING SECTION
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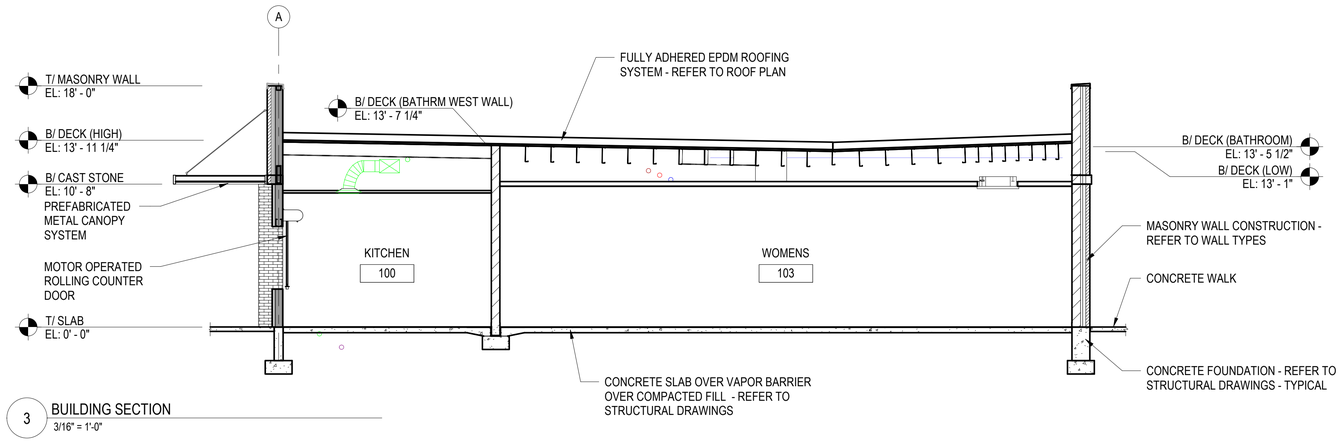


3 BUILDING SECTION
3/16" = 1'-0"

TRIA ARCHITECTURE
KITCHEN CONSULTANT: edge associates inc food service design (P) 855.962.4422
CIVIL CONSULTANT: HRGreen (P) 800.728.7805
LANDSCAPE CONSULTANT: JSD (P) 312.644.3379
STRUCTURAL CONSULTANT: Larson Engineering, Inc. (P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES

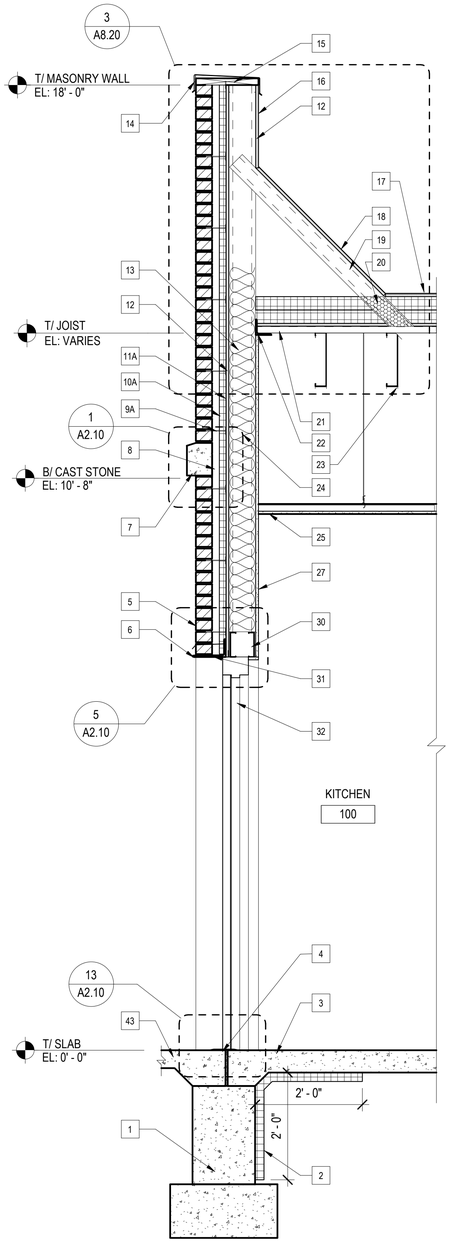
VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

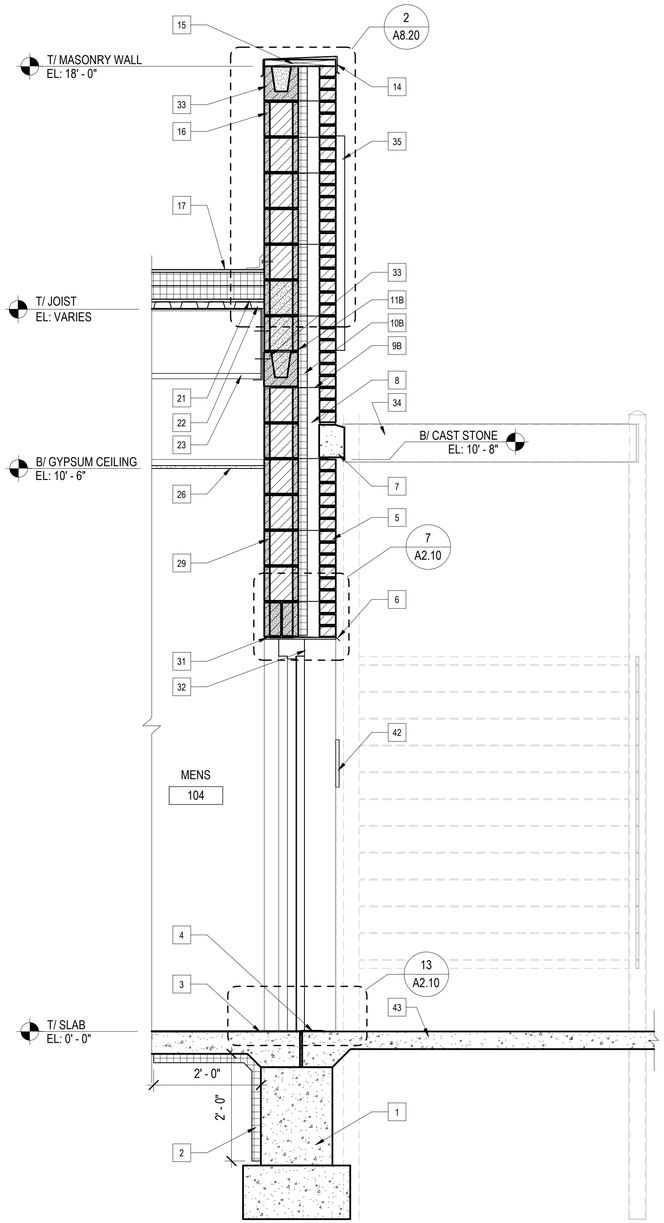
PROJECT NUMBER:	24-002
PROJECT MANAGER:	PSN
DRAWN BY:	MM & PSN
ISSUE FOR BID & PERMIT:	09/05/24

BUILDING SECTIONS

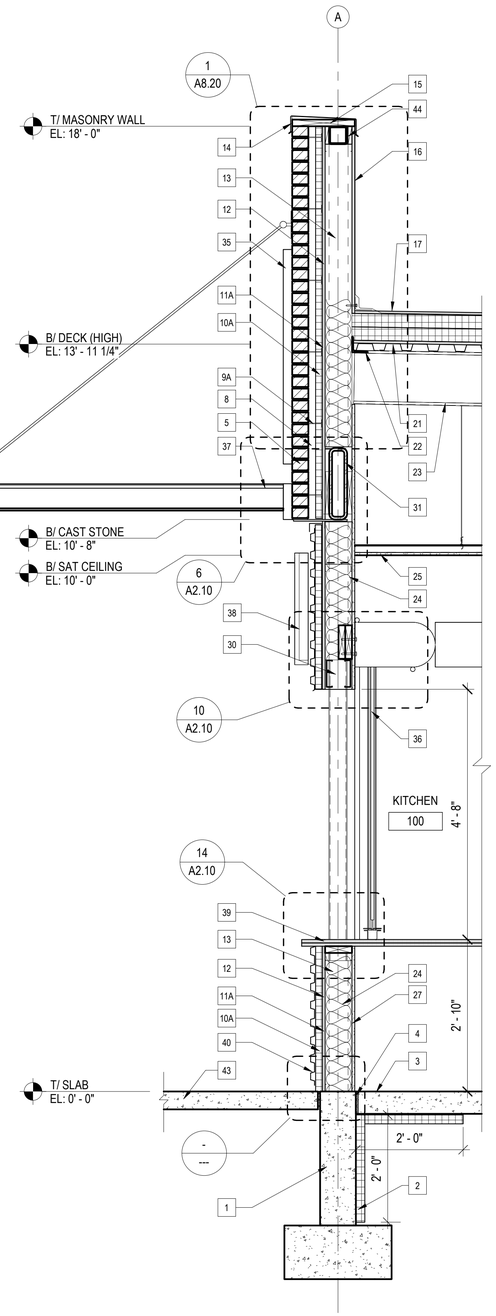
A5.00



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



2 WALL SECTION
3/4" = 1'-0"



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

WALL SECTION REFERENCED NOTES

(NOT ALL NOTES WILL BE REFERENCED ON ALL SHEETS)

1 CONCRETE FOUNDATION SYSTEM - REFER TO STRUCTURAL DRAWINGS.
2 CONTINUOUS 2" THICK RIGID PERIMETER INSULATION.
3 CONCRETE FLOOR SLAB OVER COMPACTED FILL WITH VAPOR BARRIER - REFER TO STRUCTURAL DRAWINGS.
4 CONTINUOUS PERFORMED 1/2" COMPRESSIBLE FILLER AND SEALANT.
5 FACE BRICK
6 CONTINUOUS THROUGH WALL FLASHING WITH STAINLESS STEEL DRIP EDGE AND CELL VENTS AT 24" ON CENTER.
7 CAST STONE BAND.
8 AIR SPACE (1 1/2" MINIMUM).
9A BRICK TIES.
9B HORIZONTAL JOINT REINFORCING AT 16" ON CENTER VERTICAL.
10A CONTINUOUS 1 1/2" RIGID INSULATION.
10B CONTINUOUS 2" RIGID INSULATION.
11A CONTINUOUS VAPOR BARRIER - OVERLAP AND TAPE ALL SEAMS.
11B FLUID APPLIED VAPOR BARRIER.
12 5/8" EXTERIOR GRADE PLYWOOD SHEATHING.
13 6" METAL STUD FRAMING SPACED AT 16" ON CENTER.
13A 6" METAL STUD FRAMING SPACED AT 12" ON CENTER.
14 PREFINISHED ALUMINUM COPING AND CONTINUOUS CLEAT SYSTEM.
15 CONTINUOUS TREATED WOOD BLOCKING.
16 EXTEND MEMBRANE UP AND OVER WOOD BLOCKING.
17 FULLY ADHERED EPDM ROOFING SYSTEM - REFER TO ROOF PLAN.
18 EPDM ROOFING OVER 1/2" COVER BOARD.
19 LIGHT GAUGE METAL STUD KICKERS - REFER TO STRUCTURAL DRAWINGS.
20 SPRAY FOAM INSULATION AT BASE OF KICKER.
21 METAL ROOF DECK - REFER TO STRUCTURAL DRAWINGS.
22 CONTINUOUS STEEL ANGLE - REFER TO STRUCTURAL DRAWINGS.
23 LIGHT GAUGE JOIST - REFER TO STRUCTURAL DRAWINGS.
24 R-19 BATT INSULATION.
25 SUSPENDED ACOUSTICAL TILE CEILING SYSTEM.
26 GYPSUM BOARD CEILING SYSTEM - PAINT
27 FRP PANELS OVER 5/8" GYPSUM BOARD
28 5/8" GYPSUM BOARD - PAINT.
29 8" CONCRETE MASONRY UNIT WALL CONSTRUCTION - PAINT
30 BOX HEADER - REFER TO STRUCTURAL DRAWINGS.
31 STEEL LINTEL - REFER TO STRUCTURAL DRAWINGS - PAINT.
32 HOLLOW METAL DOOR AND FRAME ASSEMBLY - PAINT.
33 BOND BEAM - GROUT SOLID.
34 ALUMINUM TRELLIS SYSTEM.
35 LED ILLUMINATED BOX WALL SIGNAGE - REFER TO EXTERIOR ELEVATION AND ELECTRICAL DRAWINGS.
36 MOTOR OPERATED ROLLING COUNTER DOOR
37 PREFABRICATED METAL CANOPY SYSTEM WITH STRUCTURAL SUPPORT ROD, INTEGRAL REAR GUTTER AND RECESSED LIGHTING - REFER TO ELECTRICAL AND PLUMBING DRAWINGS.
38 TV SCREEN - SUPPLIED BY OWNER AND INSTALLED BY GC - REFER TO ELECTRICAL DRAWINGS.
39 STAINLESS STEEL COUNTER - REFER TO FOOD SERVICE DRAWINGS.
40 PREFINISHED CORRUGATED METAL PANEL SIDING SYSTEM.
41 COW'S TONGUE PIPE DISCHARGE - REFER TO PLUMBING DRAWINGS
42 BATHROOM SIGN - REFER TO SHEET A2.00.
43 CONCRETE WALK - REFER TO CIVIL DRAWINGS.
44 STEEL TUBE - REFER TO STRUCTURAL DRAWINGS.

TRIA ARCHITECTURE

KITCHEN CONSULTANT: sdge associates inc food service design (P) 855.962.4422
CIVIL CONSULTANT: HRGreen (P) 800.728.7805
LANDSCAPE CONSULTANT: JSD (P) 312.644.3379
STRUCTURAL CONSULTANT: Larson Engineering, Inc. (P) 630.357.0540

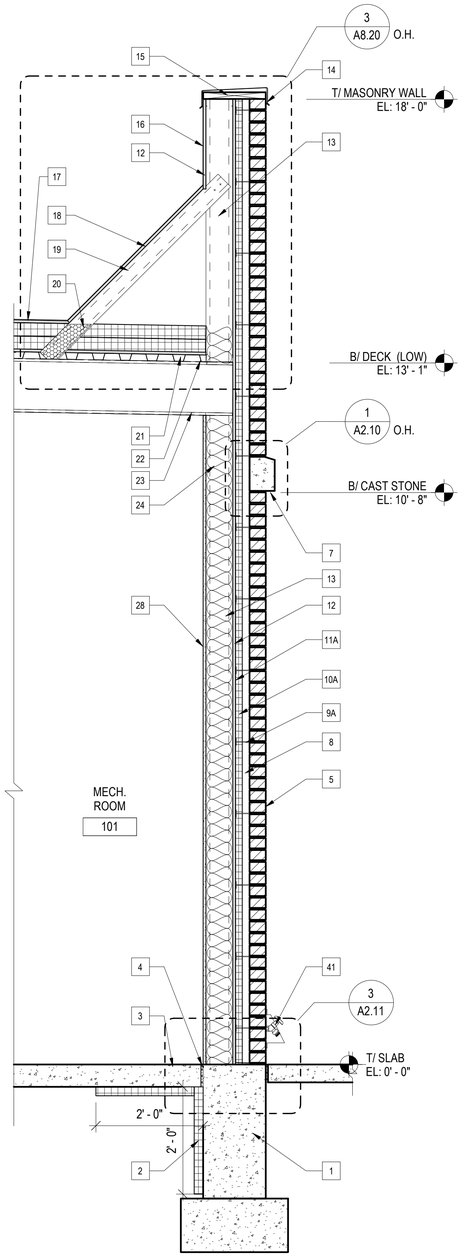
VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

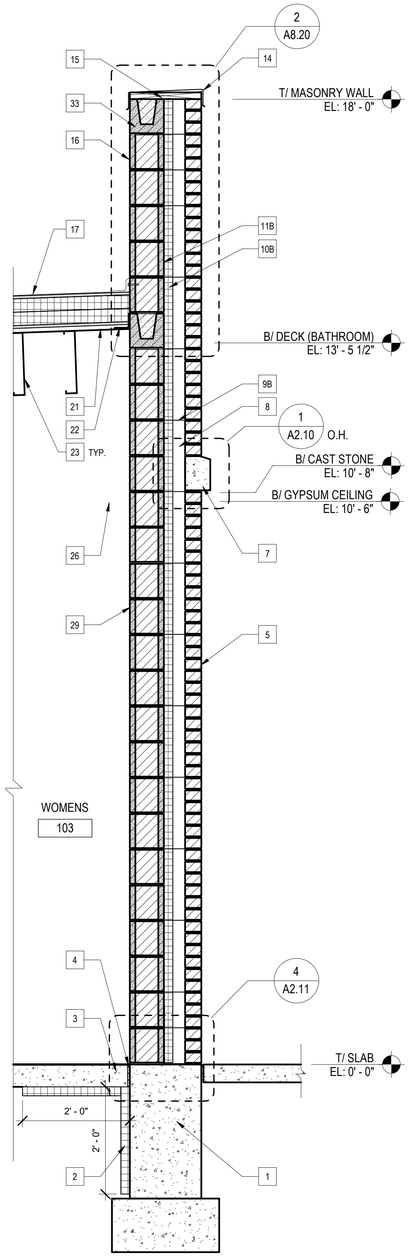
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER:	24-002
PROJECT MANAGER:	PSN
DRAWN BY:	MM & PSN

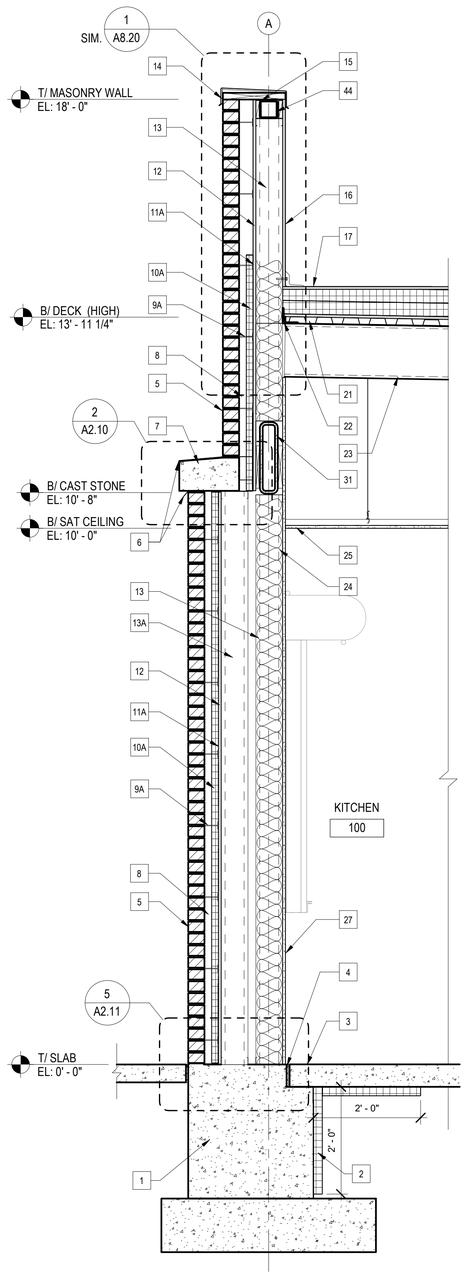
DATE	REVISION



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



2 WALL SECTION
3/4" = 1'-0"



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

WALL SECTION REFERENCED NOTES

(NOT ALL NOTES WILL BE REFERENCED ON ALL SHEETS)

1 CONCRETE FOUNDATION SYSTEM - REFER TO STRUCTURAL DRAWINGS.
2 CONTINUOUS 2" THICK RIGID PERIMETER INSULATION.
3 CONCRETE FLOOR SLAB OVER COMPACTED FILL WITH VAPOR BARRIER - REFER TO STRUCTURAL DRAWINGS.
4 CONTINUOUS PERFORMED 1/2" COMPRESSIBLE FILLER AND SEALANT.
5 FACE BRICK
6 CONTINUOUS THROUGH WALL FLASHING WITH STAINLESS STEEL DRIP EDGE AND CELL VENTS AT 24" ON CENTER.
7 CAST STONE BAND.
8 AIR SPACE (1 1/2" MINIMUM).
9A BRICK TIES.
9B HORIZONTAL JOINT REINFORCING AT 16" ON CENTER VERTICAL.
10A CONTINUOUS 1 1/2" RIGID INSULATION.
10B CONTINUOUS 2" RIGID INSULATION.
11A CONTINUOUS VAPOR BARRIER - OVERLAP AND TAPE ALL SEAMS.
11B FLUID APPLIED VAPOR BARRIER.
12 5/8" EXTERIOR GRADE PLYWOOD SHEATHING.
13 6" METAL STUD FRAMING SPACED AT 16" ON CENTER.
13A 6" METAL STUD FRAMING SPACED AT 12" ON CENTER.
14 PREFINISHED ALUMINUM COPING AND CONTINUOUS CLEAT SYSTEM.
15 CONTINUOUS TREATED WOOD BLOCKING.
16 EXTEND MEMBRANE UP AND OVER WOOD BLOCKING.
17 FULLY ADHERED EPDM ROOFING SYSTEM - REFER TO ROOF PLAN.
18 EPDM ROOFING OVER 1/2" COVER BOARD.
19 LIGHT GAUGE METAL STUD KICKERS - REFER TO STRUCTURAL DRAWINGS.
20 SPRAY FOAM INSULATION AT BASE OF KICKER.
21 METAL ROOF DECK - REFER TO STRUCTURAL DRAWINGS.
22 CONTINUOUS STEEL ANGLE - REFER TO STRUCTURAL DRAWINGS.
23 LIGHT GAUGE JOIST - REFER TO STRUCTURAL DRAWINGS.
24 R-19 BATT INSULATION.
25 SUSPENDED ACOUSTICAL TILE CEILING SYSTEM.
26 GYPSUM BOARD CEILING SYSTEM - PAINT
27 FRP PANELS OVER 5/8" GYPSUM BOARD
28 5/8" GYPSUM BOARD - PAINT.
29 8" CONCRETE MASONRY UNIT WALL CONSTRUCTION - PAINT
30 BOX HEADER - REFER TO STRUCTURAL DRAWINGS.
31 STEEL LINTEL - REFER TO STRUCTURAL DRAWINGS - PAINT.
32 HOLLOW METAL DOOR AND FRAME ASSEMBLY - PAINT.
33 BOND BEAM - GROUT SOLID.
34 ALUMINUM TRELLIS SYSTEM.
35 LED ILLUMINATED BOX WALL SIGNAGE - REFER TO EXTERIOR ELEVATION AND ELECTRICAL DRAWINGS.
36 MOTOR OPERATED ROLLING COUNTER DOOR
37 PREFABRICATED METAL CANOPY SYSTEM WITH STRUCTURAL SUPPORT ROD, INTEGRAL REAR GUTTER AND RECESSED LIGHTING - REFER TO ELECTRICAL AND PLUMBING DRAWINGS.
38 TV SCREEN - SUPPLIED BY OWNER AND INSTALLED BY GC - REFER TO ELECTRICAL DRAWINGS.
39 STAINLESS STEEL COUNTER - REFER TO FOOD SERVICE DRAWINGS.
40 PREFINISHED CORRUGATED METAL PANEL SIDING SYSTEM.
41 COW'S TONGUE PIPE DISCHARGE - REFER TO PLUMBING DRAWINGS
42 BATHROOM SIGN - REFER TO SHEET A2.00.
43 CONCRETE WALK - REFER TO CIVIL DRAWINGS.
44 STEEL TUBE - REFER TO STRUCTURAL DRAWINGS.

TRIA ARCHITECTURE

KITCHEN CONSULTANT: sdge associates inc food service design (P) 855.962.4422
CIVIL CONSULTANT: HRGreen (P) 800.728.7805
LANDSCAPE CONSULTANT: JSD (P) 312.644.3379
STRUCTURAL CONSULTANT: Larson Engineering, Inc. (P) 630.357.0540

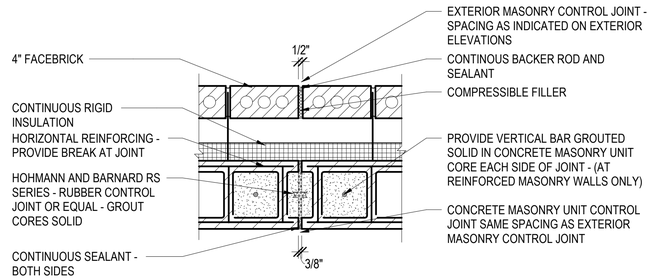
VILLAGE OF HOFFMAN ESTATES
VILLAGE GREEN CONCESSIONS
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER:	24-002	REVISION / DATE
PROJECT MANAGER:	PSN	
DRAWN BY:	MM & PSN	
ISSUE FOR BID & PERMIT:	09/05/24	

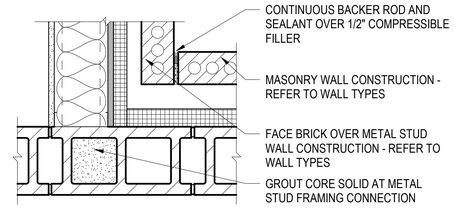
WALL SECTIONS

A5.11

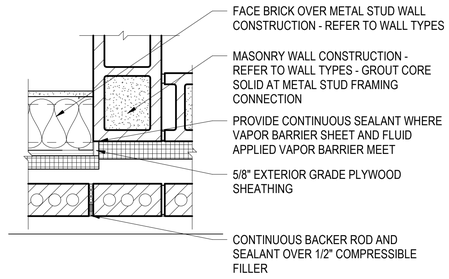
NOTE:
1. BOND BEAMS TO BE CONTINUOUS THROUGH CONTROL JOINT.
2. ALIGN CONCRETE MASONRY UNITS CONTROL JOINT WITH EXTERIOR MASONRY CONTROL JOINT WHERE LOCATED AT DOOR AND WINDOW JAMBS.



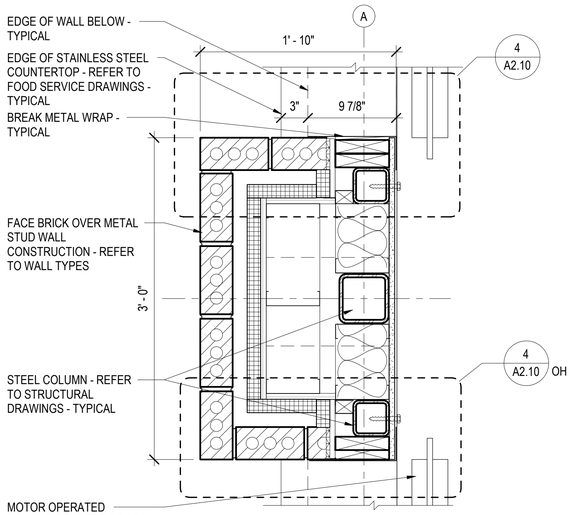
1 CONTROL JOINT PLAN DETAIL
1 1/2" = 1'-0"



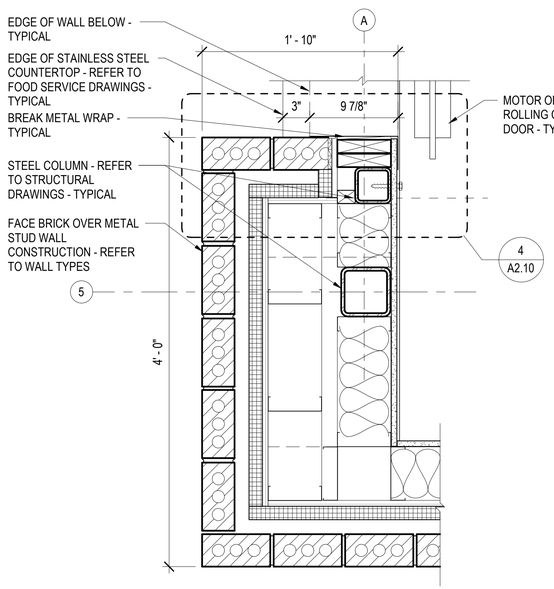
2 PLAN DETAIL
1 1/2" = 1'-0"



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



4 TYPICAL PIER DETAIL
1 1/2" = 1'-0"



5 CORNER PIER DETAIL
1 1/2" = 1'-0"

TRIA ARCHITECTURE

KITCHEN CONSULTANT: JSD (P) 855.962.4422
CIVIL CONSULTANT: HRGreen (P) 800.728.7805
LANDSCAPE CONSULTANT: edge associates inc. (P) 312.644.3379
STRUCTURAL CONSULTANT: Larson Engineering, Inc. (P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

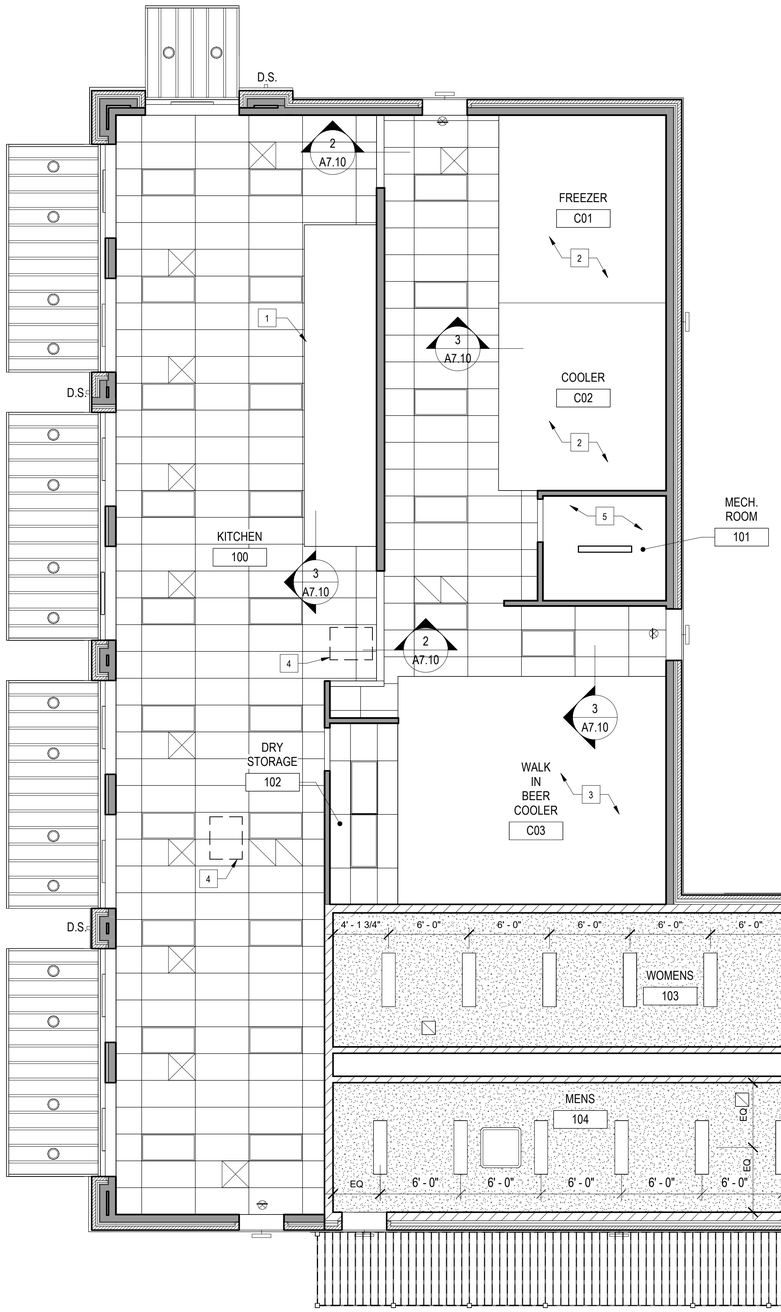
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER:	24-002
PROJECT MANAGER:	PSN
DRAWN BY:	MM & PSN
ISSUE FOR BID & PERMIT:	09/05/24

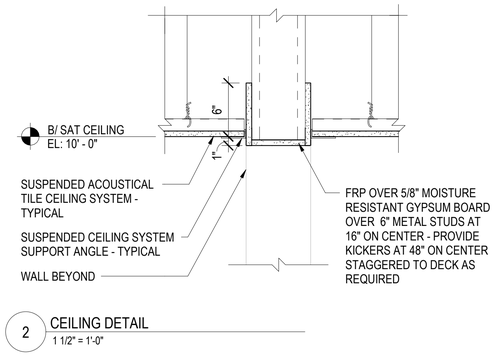
REVISION	DATE

PLAN DETAILS

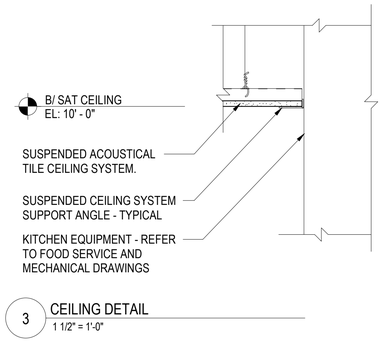
A6.00



1 REFLECTED CEILING PLAN
3/16" = 1'-0"



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



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

REFLECTED CEILING PLAN GENERAL NOTES

1. ALL GYPSUM CEILING TO BE INSTALLED AT 10'-6" UNLESS NOTED OTHERWISE.
2. ALL SUSPENDED ACOUSTICAL TILE CEILING TO BE INSTALLED AT 10'-0" UNLESS NOTED OTHERWISE.
3. REFER TO MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL PIPING, DUCTWORK, EQUIPMENT, ETC.
4. PAINT ALL EXPOSED EDGES OF STEEL LINTELS IN MASONRY WALL.

REFLECTED CEILING PLAN REFERENCED NOTES

1 KITCHEN EXHAUST HOOD - REFER TO FOOD SERVICE AND MECHANICAL DRAWINGS.
2 WALK IN COOLER AND FREEZER - REFER TO FOOD SERVICE AND MECHANICAL DRAWINGS.
3 WALK IN BEER COOLER - REFER TO FOOD SERVICE AND MECHANICAL DRAWINGS.
4 FURNACE ABOVE SAT CEILING - REFER TO MECHANICAL DRAWINGS.
5 OPEN CEILING TO DECK - SUPPORT EQUIPMENT AND DEVICES WITH UNISTRUT SYSTEM - REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS. PAINT ALL EXPOSED STRUCTURE, MECHANICAL, ELECTRICAL AND FIRE PROTECTION AS ALLOWED BY CODE.

LEGEND

- 5/8" GYPSUM BOARD CEILING OVER METAL FRAMING SYSTEM. MOISTURE RESISTANT GYPSUM TOILET ROOMS.
- 2X4 SUSPENDED ACOUSTICAL TILE CEILING SYSTEM
- SUPPLY DIFFUSER - REFER TO MECHANICAL DRAWINGS
- RETURN GRILL - REFER TO MECHANICAL DRAWINGS
- EXHAUST FAN - REFER TO MECHANICAL DRAWINGS
- INDOOR AC UNIT - REFER TO MECHANCIAL DRAWINGS
- 2X4 RECESSED LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
- 1X4 RECESSED LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
- SUPSPENDED STRIP LIGHT - REFER TO ELECTRICAL DRAWINGS
- RECESSED DOWNLIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
- EXTERIOR LED WALL PACK - REFER TO ELECTRICAL DRAWINGS
- LED LINEAR WALL WASH - REFER TO ELECTRICAL DRAWINGS
- EXIT SIGN - REFER TO ELECTRICAL DRAWINGS

TRIA ARCHITECTURE

KITCHEN CONSULTANT: edge associates inc food service design (P) 855.962.4422

CIVIL CONSULTANT: HRGreen (P) 800.728.7805

LANDSCAPE CONSULTANT: JSD (P) 312.644.3379

STRUCTURAL CONSULTANT: Larson Engineering, Inc. (P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

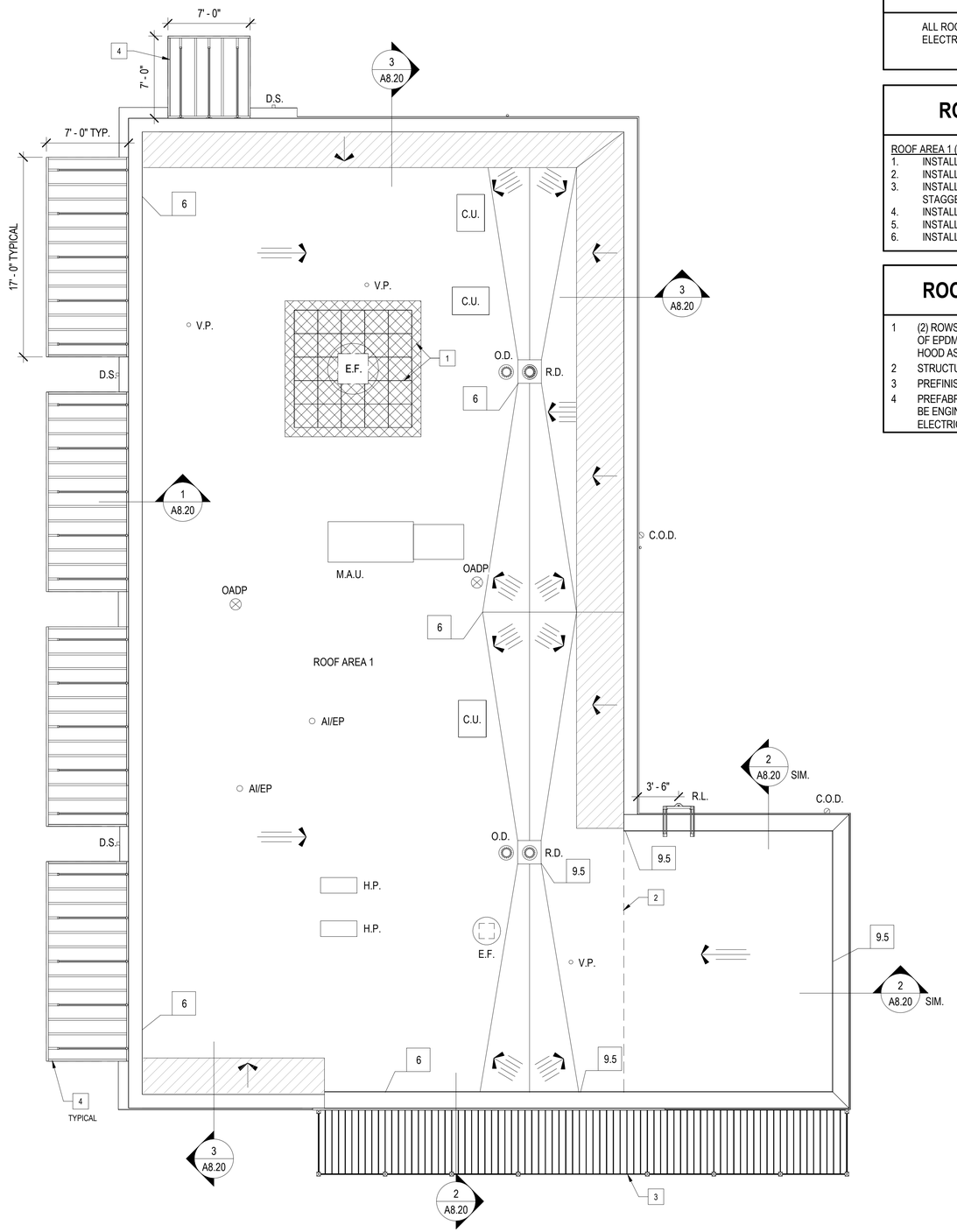
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

DATE	REVISION

PROJECT NUMBER: 24-002
PROJECT MANAGER: PSN
DRAWN BY: MM & PSN
ISSUE FOR BID & PERMIT: 09/05/24

REFLECTED CEILING PLAN AND CEILING DETAILS

A7.10



1 ROOF PLAN
3/16" = 1'-0"

ROOF PENETRATIONS

ALL ROOF PENETRATIONS SHALL BE CONFIRMED WITH MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.

ROOF CONSTRUCTION NOTES

ROOF AREA 1 (METAL DECK, SLOPED STRUCTURE)

1. INSTALL DECK COVER BOARD - MECHANICALLY FASTENED.
2. INSTALL VAPOR BARRIER.
3. INSTALL (2) LAYERS OF 2-1/2" RIGID POLYISOCYANURATE INSULATION - STAGGERED SEAMS - SET IN ADHESIVE.
4. INSTALL 1/2" COVER BOARD - SET IN ADHESIVE.
5. INSTALL 60 MIL EPDM MEMBRANE (WHITE) - FULLY ADHERED.
6. INSTALL PREFINISHED METAL FLASHING.

ROOF PLAN REFERENCED NOTES

1 (2) ROWS OF 24"x24"x2" ROOF CONCRETE PAVERS ON SACRIFICIAL LAYER OF EPDM - CUT CONCRETE PAVERS TO FIT AROUND KITCHEN EXHAUST HOOD AS NECESSARY.

2 STRUCTURAL LOW POINT BELOW - REFER TO STRUCTURAL DRAWINGS.

3 PREFINISHED ALUMINUM TRELLIS - REFER TO SHEET AS2.00.

4 PREFABRICATED METAL CANOPY SYSTEM WITH RECESSED LIGHTING - TO BE ENGINEERED BY CANOPY MANUFACTURER AND REFER TO ELECTRICAL DRAWINGS.

ROOF PLAN GENERAL NOTES

1. ALL INSULATION JOINTS ARE TO BE STAGGERED.
2. ALL INSULATION JOINTS GREATER THAN 1/4" ARE TO BE FILLED WITH INSULATION STRIPS.
3. ALL COUNTER FLASHING, COPING AND MISCELLANEOUS METAL FLASHING PIECES ARE TO HAVE SEALANT APPLIED AT THEIR END CONDITIONS.
4. ALL EXPOSED FASTENERS TO BE CORROSIVE RESISTIVE, HAVE NEOPRENE WASHERS, AND BE COVERED WITH SEALANT FOLLOWING ARCHITECT'S APPROVAL.
5. APPLY EPDM MANUFACTURER'S SEALANT OVER FASTENER HEADS AT BASE FLASHING SECUREMENT.
6. DRAINS TO BE FLASHED AS PER MANUFACTURER'S SPECIFICATIONS.
7. PROVIDE COUNTER FLASHING FOR ALL VERTICAL FLANGES ON ENDWALL FLASHING PIECES.
8. AT SECONDARY ROOF DRAIN DISCHARGE PIPE PROVIDE PREFINISHED STEEL COWS TONGUE EXTENDING FROM WALL A MINIMUM OF 1".
9. MINIMUM ROOF STRUCTURE SLOPE SHALL BE 1/4" PER FOOT.
10. SECONDARY ROOF DRAINS AND OVERFLOW OPENINGS SHALL BE NO MORE THAN 2" ABOVE LOWEST ELEVATION OF ROOF AREA SERVED.
11. ROOF INSULATION TO HAVE AN AVERAGE R-VALUE OF R-33.5.
12. REFER TO SHEETS A8.21, A8.22 AND A8.23 FOR TYPICAL DETAILS.

FLASHING NOTES

1. ALL FLASHING FLANGES ARE TO BE SET IN SEALANT.
2. FOLLOWING INSTALLATION OF THE FLASHING, APPLY SEALANT TO ALL EXPOSED LEADING EDGES.
3. ALL SCREW ANCHOR LOCATIONS TO HAVE PRE-DRILLED 5/16" PILOT HOLES.
4. NON-EXPOSED NAIL FASTENERS TO BE 1-1/2" RING SHANK GALVANIZED ROOFING NAILS.
5. NON-EXPOSED SCREW ANCHORS INTO WOOD TO BE 1-1/4" X 3/16" HHA ATLAS TYPE 'A' POINT SCREWS.
6. EXPOSED SCREW ANCHORS INTO WOOD ARE TO BE 1-1/4" X 3/16" HHA ATLAS TYPE 'A' POINT 304 SERIES.
7. NON-EXPOSED SCREW ANCHORS INTO MASONRY ARE TO BE 1-1/4" X 3/16" TAPCONS.
8. EXPOSED SCREW ANCHORS INTO MASONRY ARE TO BE 1-1/4" X 3/16" TAPCONS WITH CLIMASEAL CORROSION RESISTIVE COATING AND NEOPRENE WASHERS.
9. EXPOSED SCREW FASTENERS INTO SHEET METAL TO BE 3/4" X 1/4" TEKS WITH NEOPRENE WASHERS.
10. ALL EXPOSED SCREW FASTENERS ARE TO BE COVERED WITH SEALANT.

LEGEND

AI/EP	AIR INTAKE/ EXHAUST PENETRATION - REFER TO MECHANICAL DRAWINGS.
C.U.	CONDENSING UNIT AND RAIL CURB - REFER TO DETAIL 2/A8.22 AND FOOD SERVICE AND MECHANICAL DRAWINGS.
D.S.	PREFINISHED METAL DOWNSPOUT - REFER TO PLUMBING DRAWINGS, EXTERIOR ELEVATION AND DETAIL 7/A8.23.
E.F.	MECHANICAL EXHAUST FAN AND ROOF CURB - REFER TO DETAIL 2/A8.22 AND MECHANICAL DRAWINGS.
M.A.U.	MAKEUP AIR UNIT AND CURB - REFER TO DETAIL 2/A8.22 AND FOOD SERVICE AND MECHANICAL DRAWINGS.
OADP	OUTSIDE AIR DUCT PENETRATION - REFER TO DETAIL 8/A8.22 AND MECHANICAL DRAWINGS.
O.D.	OVERFLOW ROOF DRAIN
C.O.D	COW'S TONGUE OVERFLOW DRAIN
H.P.	HEAT PUMP AND CURB - REFER TO DETAIL 2/A8.22 AND MECHANICAL DRAWINGS.
R.D.	ROOF DRAIN IN PITCH PAN - REFER TO DETAIL 13/A8.21 AND PLUMBING DRAWINGS.
R.L.	ROOF LADDER - REFER TO DETAIL 3/A8.22 AND 4/A8.22.
V.P.	VENT PIPE - REFER TO DETAIL 6/A8.22.
	AREA OF 1/4" PER FOOT SLOPED STRUCTURE
	AREA OF 1/2" PER FOOT TAPERED INSULATION
	PARAPET SUPPORT KICKER LOCATION
X	INSULATION THICKNESS (INCHES) INCLUDES COVER BOARD

TRIA ARCHITECTURE

KITCHEN CONSULTANT: edge associates inc. food service design — 451 E. 75th AVENUE, SUITE 215, MERRILLVILLE, ILLINOIS 46410 — (P) 855.962.4422

CIVIL CONSULTANT: HRGreen — 2200 CABOT DRIVE, SUITE 375, LISLE, ILLINOIS 60532 — (P) 800.728.7805

LANDSCAPE CONSULTANT: JSD — 451 E. 75th AVENUE, SUITE 215, MERRILLVILLE, ILLINOIS 46410 — (P) 312.644.3379

STRUCTURAL CONSULTANT: Larson Engineering, Inc. — 444 E. 75th STREET, SUITE 100, DARIEN, ILLINOIS 60561 — (P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

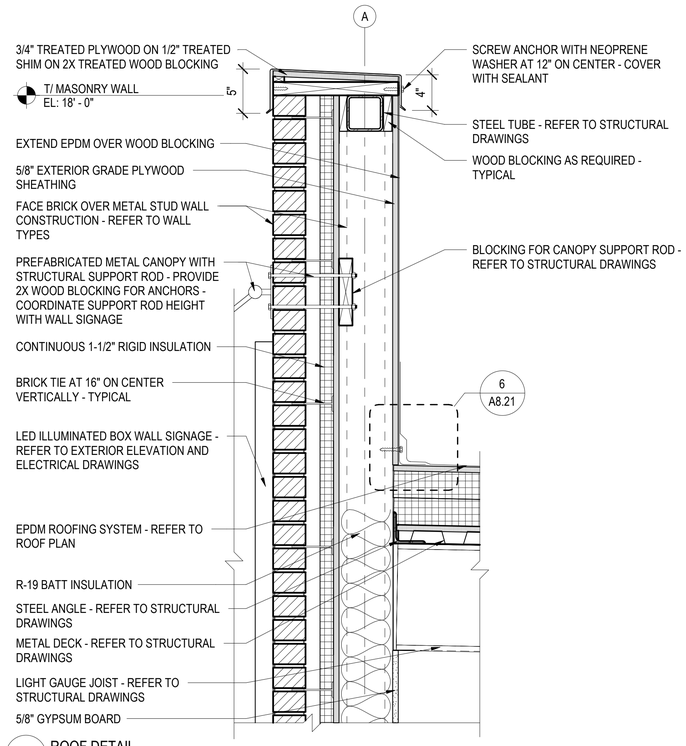
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER:	24-002
PROJECT MANAGER:	PSN
DRAWN BY:	MM & PSN

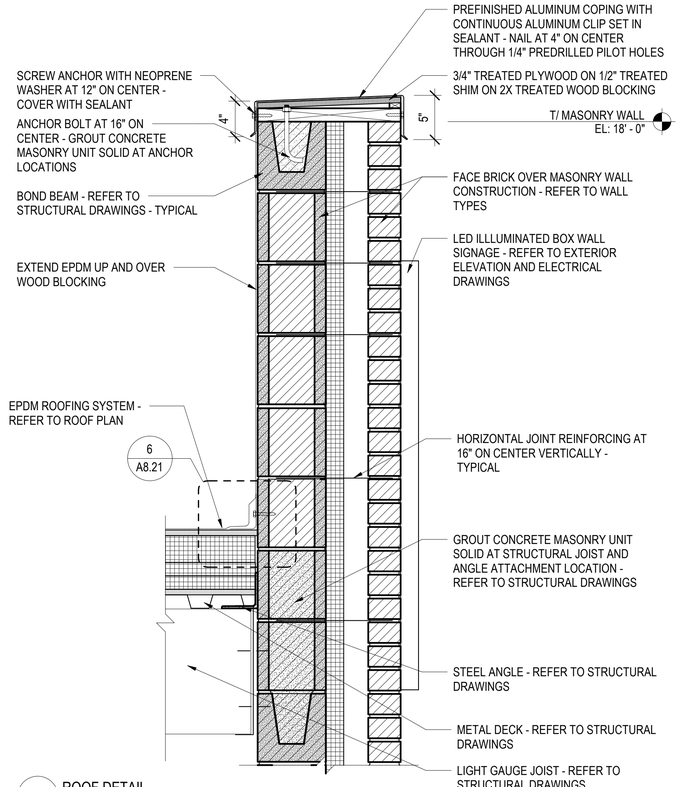
REVISION	DATE
ISSUE FOR BID & PERMIT:	09/05/24

ROOF PLAN

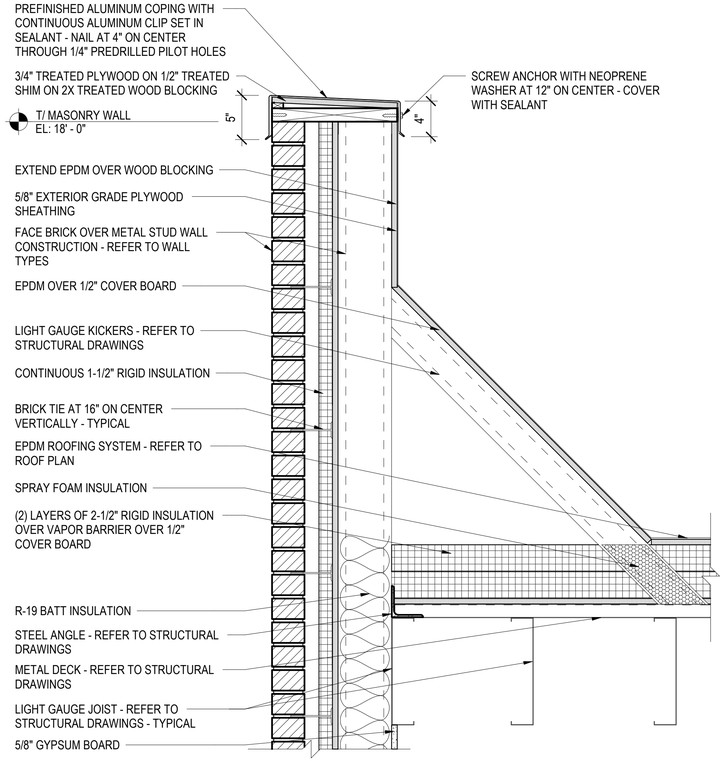
A8.10



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



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



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

TRIA ARCHITECTURE
KITCHEN CONSULTANT: edge associates inc food service design (P) 855.962.4422
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VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

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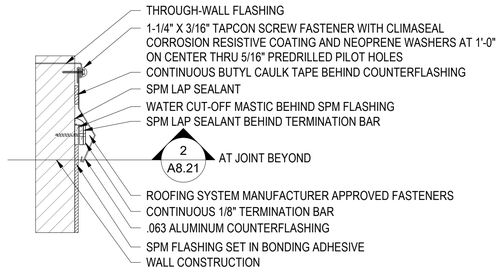
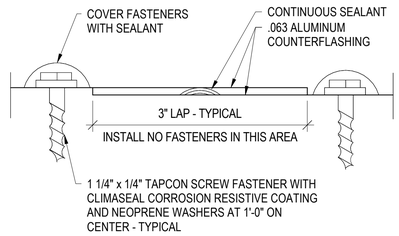
ROOF DETAILS

A8.20

NOTES:
1. TERMINATION BAR AND COUNTERFLASHING ARE TO BE INSTALLED HORIZONTALLY ACROSS MASONRY WALL. COORDINATE HEIGHT OF BASE FLASHING SO THAT AT HIGHEST POINT OF INSULATION TO THE TOP OF THE BASE FLASHING IS 8" MIN. ABOVE THE SURFACE OF THE SPM.
2. TERMINATION BAR TO BE INSTALLED ON TOP OF SPM BASE FLASHING ON SAME DAY BASE FLASHING IS INSTALLED.

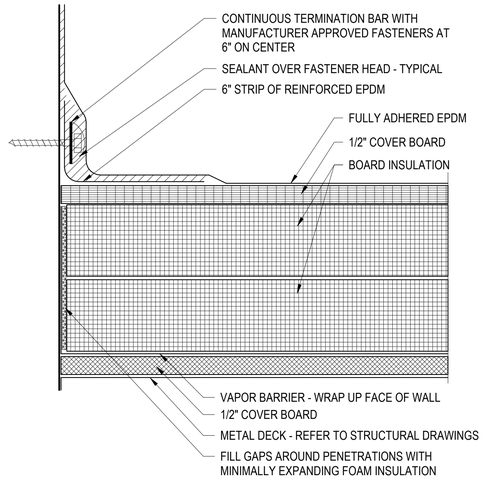


1 COUNTER FLASHING/SPM TERMINATION DETAIL
3" = 1'-0"

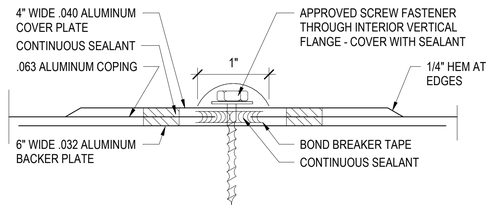


2 TYPICAL COUNTERFLASHING LAP JOINT
12" = 1'-0"

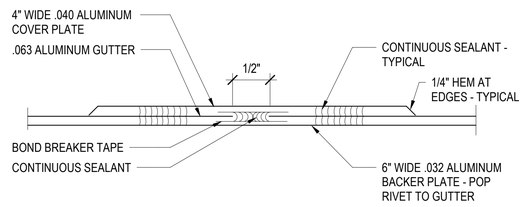
NOTES:
1. ON ROOF CURBS ALL CORNERS TO BE FLASHED WITH 2 LAYERS OF UNCURED EPDM.



6 TYPICAL SPM ANCHOR STRIP DETAIL
6" = 1'-0"

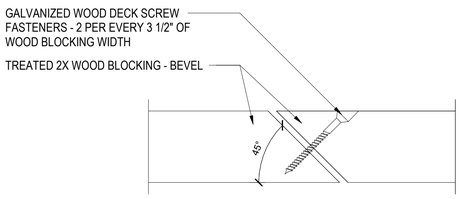


3 TYPICAL COPING / FASCIA JOINT
12" = 1'-0"



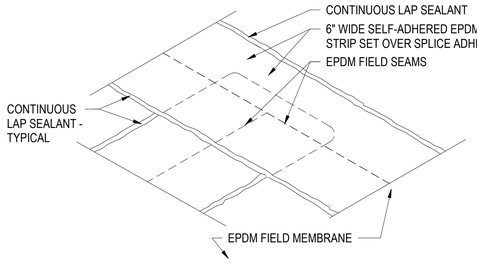
4 TYPICAL COPING / FASCIA JOINT
12" = 1'-0"

NOTES:
1. ALL WOOD BLOCKING TO BE TREATED. JOINTS TO BE STAGGERED, MITERED, AND SCREWED TIGHT.



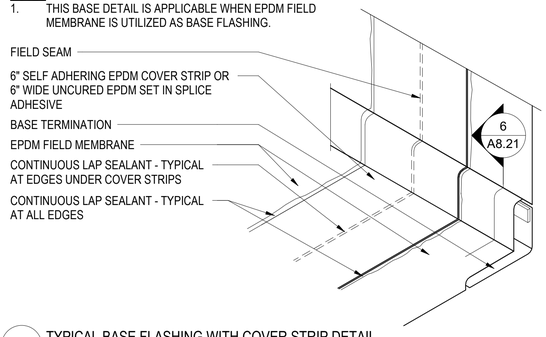
7 TYPICAL MITERED WOOD AT BLOCKING
6" = 1'-0"

NOTES:
1. ALL LAP SEAMS TO BE STRIPPED IN WHETHER SPLICE ADHESIVE OR SPLICE TAPE ARE UTILIZED.
2. WASH LAP SEAMS WITH WATER FOLLOWED BY SPLICE WASHING TO REMOVE CONTAMINANTS.

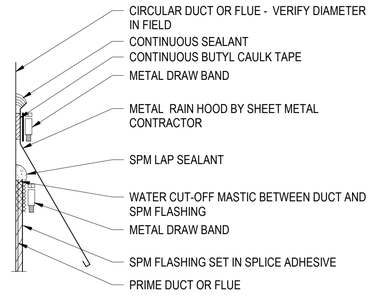


8 LAP SEAM COVER STRIP DETAIL
1 1/2" = 1'-0"

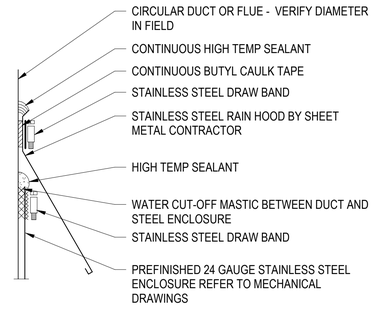
NOTES:
1. THIS BASE DETAIL IS APPLICABLE WHEN EPDM FIELD MEMBRANE IS UTILIZED AS BASE FLASHING.



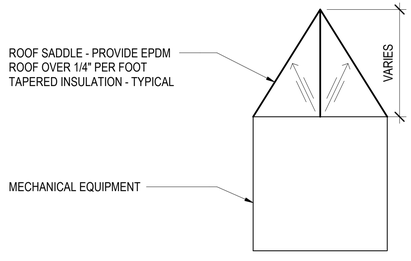
9 TYPICAL BASE FLASHING WITH COVER STRIP DETAIL
1 1/2" = 1'-0"



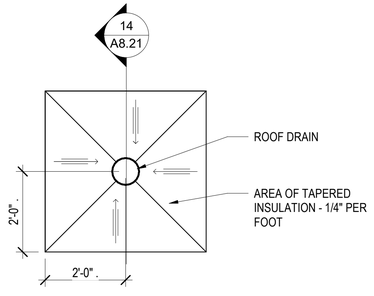
10 RAIN HOOD DETAIL
3" = 1'-0"



11 RAIN HOOD DETAIL (HIGH TEMPERATURE)
3" = 1'-0"

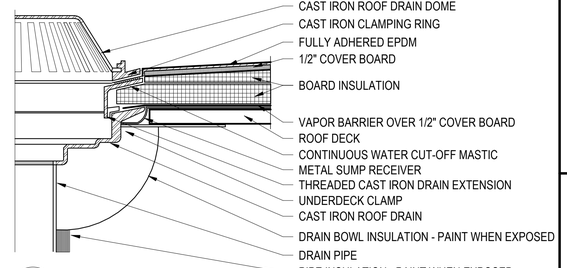


12 ROOF SADDLE DETAIL
1 1/2" = 1'-0"



13 TAPERED INSULATION PLAN
1 1/2" = 1'-0"

NOTES:
1. SLIGHTLY BEVEL TOP EDGE OF BASE INSULATION AND INSERT UNDER DRAIN EXTENSION RING. TIGHTEN EXTENSION RING SO THAT TOP OF SAME IS FLUSH WITH TOP OF BASE INSULATION.
2. CUT TAPERED INSULATION PERPENDICULAR TO DRAIN CLAMPING RING - DO NOT BEVEL.
3. COORDINATE WITH PLUMBING DRAWINGS.



14 ROOF DRAIN DETAIL
1 1/2" = 1'-0"

TRIA ARCHITECTURE

KITCHEN CONSULTANT: edge associates inc. food service design (P) 855.962.4422

CIVIL CONSULTANT: HRGreen (P) 800.728.7805

LANDSCAPE CONSULTANT: JSD (P) 312.644.3379

STRUCTURAL CONSULTANT: Larson Engineering, Inc. (P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

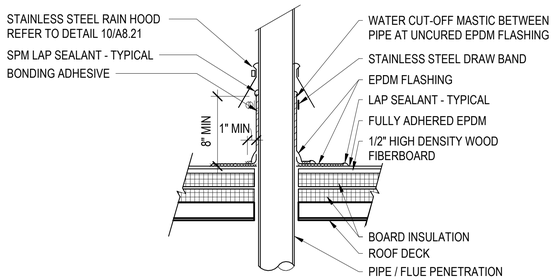
PROJECT NUMBER:	24-002
PROJECT MANAGER:	PSN
DRAWN BY:	MM & PSN

REVISION	DATE
ISSUE FOR BID & PERMIT	09/05/24

ROOF DETAILS

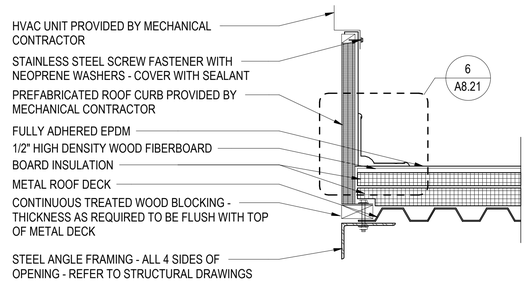
A8.21

NOTES:
1. ALL CORNERS OF EPDM MEMBRANE ARE TO BE ROUNDED.
2. CLEAN PIPE OF ALL CONTAMINANTS.

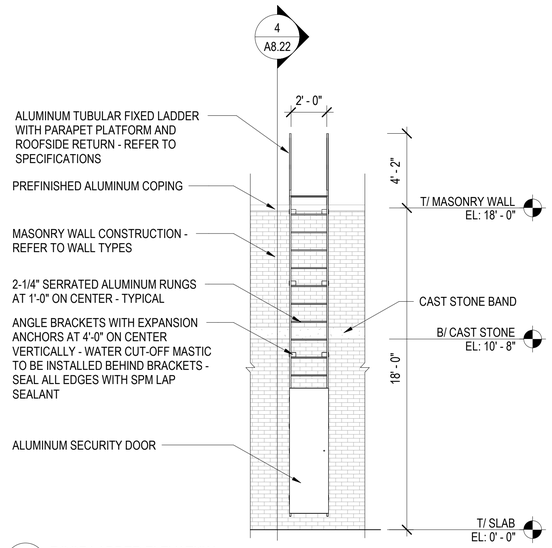


1 PIPE / FLUE PENETRATION DETAIL
1 1/2" = 1'-0"

NOTES:
1. COORDINATE WITH HVAC AND STRUCTURAL CONSULTANT DETAILS.

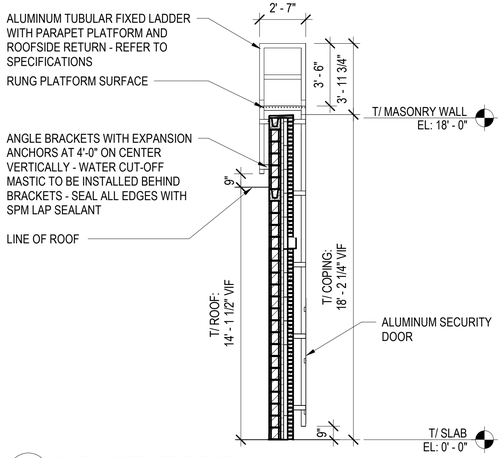


2 HVAC UNIT CURB DETAIL
1 1/2" = 1'-0"



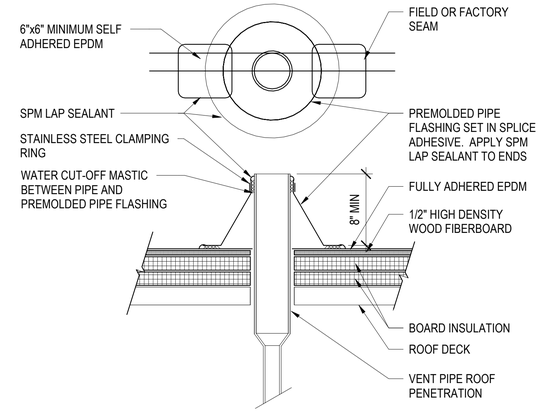
3 ROOF LADDER ELEVATION
1/4" = 1'-0"

NOTES:
1. SET LADDER ANGLE BRACKETS IN SEALANT.



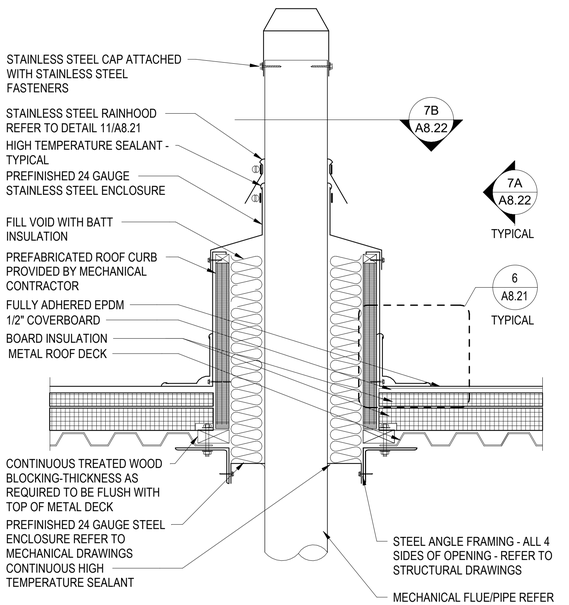
4 ROOF LADDER SIDE ELEVATION
1/4" = 1'-0"

NOTES:
IF FLANGE OF PREMOLDED BOOT FALLS ON FIELD SEAM, APPLY EPDM PATCH.

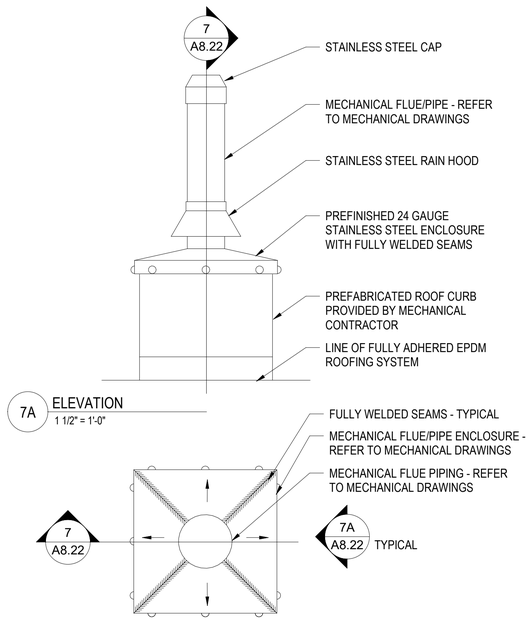


6 VENT PIPE DETAIL
1 1/2" = 1'-0"

NOTES:
1. ALL CORNERS OF EPDM MEMBRANE ARE TO BE ROUNDED.
2. CLEAN PIPE OF ALL CONTAMINANTS.
3. ALL NEW WOOD BLOCKING TO BE TREATED WITH JOINTS STAGGERED, MITERED, AND SCREWED TIGHT.



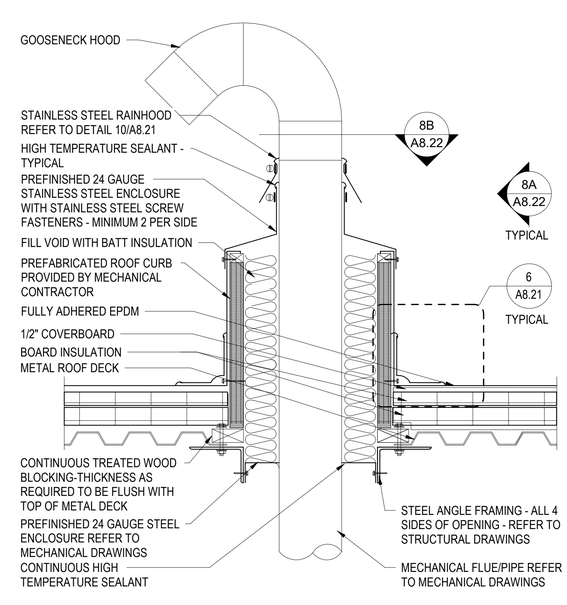
7 FLUE PENETRATION DETAIL
1 1/2" = 1'-0"



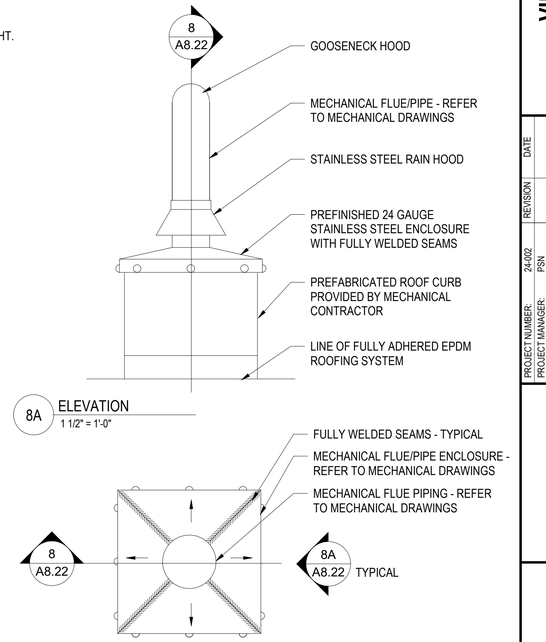
7A ELEVATION
1 1/2" = 1'-0"

7B PLAN
1 1/2" = 1'-0"

NOTES:
1. ALL CORNERS OF EPDM MEMBRANE ARE TO BE ROUNDED.
2. CLEAN PIPE OF ALL CONTAMINANTS.
3. ALL NEW WOOD BLOCKING TO BE TREATED WITH JOINTS STAGGERED, MITERED, AND SCREWED TIGHT.



8 FLUE PENETRATION DETAIL GOOSENECK HOOD
1 1/2" = 1'-0"



8A ELEVATION
1 1/2" = 1'-0"

8B PLAN
1 1/2" = 1'-0"

TRIA ARCHITECTURE

KITCHEN CONSULTANT: edge associates inc. food service design (P) 855.962.4422

CIVIL CONSULTANT: HR Green (P) 800.728.7805

LANDSCAPE CONSULTANT: JSD (P) 312.644.3379

STRUCTURAL CONSULTANT: Larson Engineering, Inc. (P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

DATE	REVISION

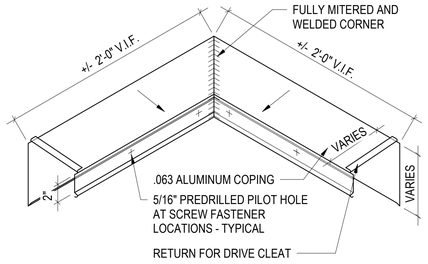
PROJECT NUMBER: 24-002
PROJECT MANAGER: PSN
DRAWN BY: MM & PSN

ISSUE FOR BID & PERMIT: 09/05/24

ROOF DETAILS

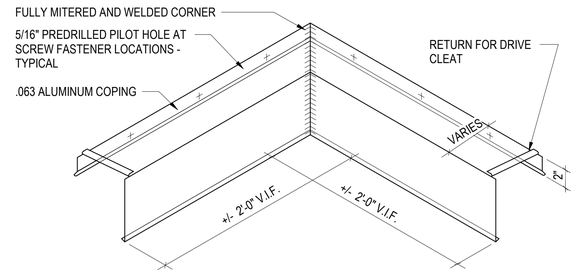
A8.22

NOTES:
1. SHEET METAL CONTRACTOR TO VERIFY ANGLE OF COPING CORNER IN FIELD.
2. ALL CORNERS TO BE FACTORY WELDED AND FINISHED.



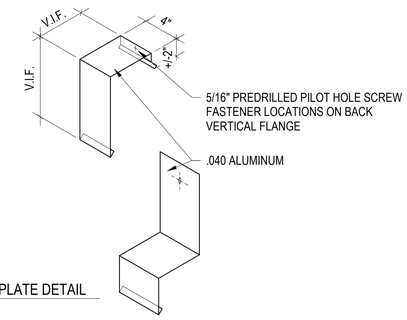
1 OUTSIDE CORNER COPING
1 1/2" = 1'-0"

NOTES:
1. SHEET METAL CONTRACTOR TO VERIFY ANGLE OF COPING CORNER IN FIELD.
2. ALL CORNERS TO BE FACTORY WELDED AND FINISHED.

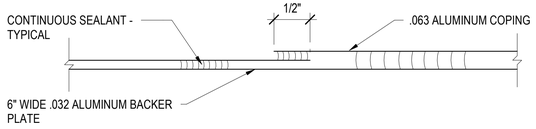


2 INSIDE CORNER COPING
1 1/2" = 1'-0"

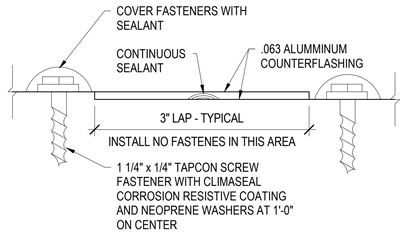
NOTES:
1. EDGES OF COVER PLATE TO BE 1/4" HEMMED - NOT SHOWN FOR CLARITY.
2. SEE DETAILS X/XX AND X/XX FOR HORIZONTAL AND VERTICAL DETAIL CONDITIONS.



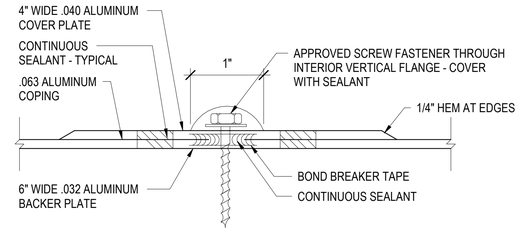
3 COPING COVER PLATE DETAIL
1 1/2" = 1'-0"



4 VERTICAL COPING JOINT DETAIL
12" = 1'-0"

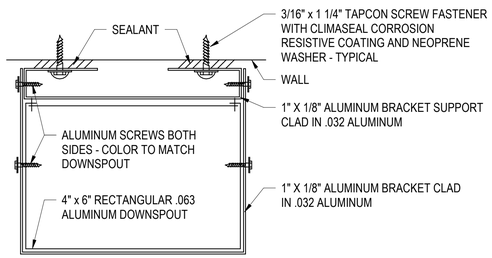


5 TYPICAL COUNTER FLASHING LAP JOINT
12" = 1'-0"



6 VERTICAL COPING / FASCIA JOINT
12" = 1'-0"

NOTES:
1. LOCATE BRACKETS AT DOWNSPOUT ANGLE CHANGES AND AT 4'-0" ON CENTER.



7 DOWNSPOUT BRACKET DETAIL
6" = 1'-0"

TRIA ARCHITECTURE

KITCHEN CONSULTANT: edge associates inc. food service design (P) 855.962.4422

CIVIL CONSULTANT: HRGreen (P) 800.728.7805

LANDSCAPE CONSULTANT: JSD (P) 312.644.3379

STRUCTURAL CONSULTANT: Larson Engineering, Inc. (P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

DATE	REVISION

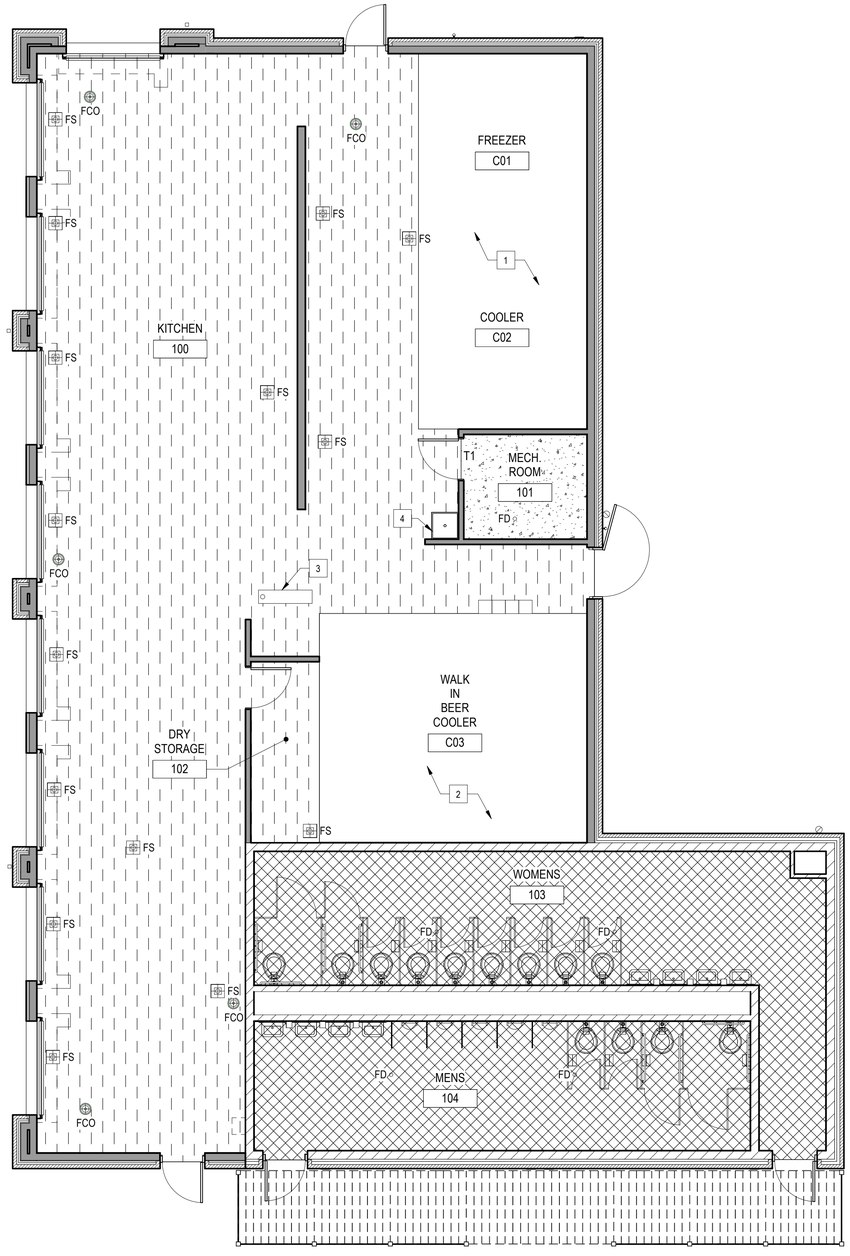
PROJECT NUMBER: 24-002
PROJECT MANAGER: PSN
DRAWN BY: MM & PSN
ISSUE FOR BID & PERMIT: 09/05/24

ROOF DETAILS

A8.23

ROOM FINISH SCHEDULE

ROOM NO	ROOM NAME	NORTH WALL		EAST WALL		SOUTH WALL		WEST WALL		CEILING	FLOORING	REFERENCED NOTES
		WALL	WALL BASE	WALL	WALL BASE	WALL	WALL BASE	WALL	WALL BASE			
100	KITCHEN	FRP	EPY-1	FRP	EPY-1	FRP	EPY-1	FRP	EPY-1	SAT	EPY-1	
101	MECH. ROOM	PT-1	RBB	PT-1	RBB	PT-1	RBB	PT-1	RBB	EXP	S CONC	
102	DRY STORAGE	PT-1	EPY B	-	-	PT-1	EPY B	PT-1	EPY B	SAT	EPY	
103	WOMENS	PT-1	EPY-2	PT-1	EPY-2	PT-1, 2, 3, 4	EPY-2	PT-1	EPY-2	PT-2	EPY-2	1
104	MENS	PT-5, 6, 7	EPY-2	PT-1	EPY-2	PT-1	EPY-2	PT-1	EPY-2	PT-2	EPY-2	1



1 FINISH PLAN
3/16" = 1'-0"

ROOM FINISH LEGEND

EXP	EXPOSED (UNPAINTED)
EPY-1	POURED EPOXY FLOOR WITH 4" INTEGRAL EPOXY COVED BASE (COLOR MIX #1, KITCHEN)
EPY-2	POURED EPOXY FLOOR WITH 4" INTEGRAL EPOXY COVED BASE (COLOR MIX #2, BATHROOMS)
RBB	RUBBER WALL BASE
S CONC	SEALED CONCRETE
FRP	FIBERGLASS REINFORCED PLASTIC WALL PANELS
PT-1	PAINT COLOR 1 (FIELD COLOR - BENJAMIN MOORE OC-18, DOVE WING)
PT-2	PAINT COLOR 2 (ACCENT COLOR - BENJAMIN MOORE CSP-1130, TUSCAN TILE)
PT-3	PAINT COLOR 3 (ACCENT COLOR - BENJAMIN MOORE CSP-135, CORAL BELLS)
PT-4	PAINT COLOR 4 (ACCENT COLOR - BENJAMIN MOORE CSP-140, EGYPTIAN CLAY)
PT-5	PAINT COLOR 5 (ACCENT COLOR - BENJAMIN MOORE CSP-710, TROPICAL OASIS)
PT-6	PAINT COLOR 6 (ACCENT COLOR - BENJAMIN MOORE CSP-715, FAIR ISLE BLUE)
PT-7	PAINT COLOR 7 (ACCENT COLOR - BENJAMIN MOORE CSP-720, DARK HARBOR)
PT-8	PAINT COLOR 8 (CEILING)
PT-9	PAINT COLOR 9 (DOOR AND FRAMES)
PT-10	PAINT COLOR 10 (EXTERIOR MASONRY WALL GRAPHIC)
SAT	SUSPENDED ACOUSTICAL TILE CEILING SYSTEM, TYPE 1

ROOM FINISH REFERENCED NOTES

1. REFER TO INTERIOR ELEVATION FOR WALL PAINT PATTERN.

FINISH PLAN REFERENCED NOTES

1 DEPRESSED CONCRETE SLAB - REFER TO FOOD SERVICE AND STRUCTURAL DRAWINGS
2 EXPOSED CONCRETE SLAB - REFER TO STRUCTURAL DRAWINGS
3 ICE MAKER FLOOR TROUGH - REFER TO FOOD SERVICE AND PLUMBING DRAWINGS
4 MOP SINK - REFER TO FOOD SERVICE DRAWINGS.

FINISH PLAN AND ROOM FINISH GENERAL NOTES

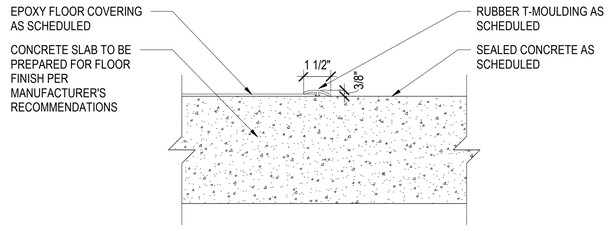
1. ALL INTERIOR WALL AND CEILING FINISH MATERIALS SHALL BE IN ACCORDANCE WITH THE 2021 INTERNATIONAL BUILDING CODE
2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. REFER TO FLOOR PLANS AND WALL TYPES FOR WALL CONSTRUCTION.
4. REFER TO REFLECTED CEILING PLANS FOR CEILING CONSTRUCTION AND SOFFIT LOCATIONS.
5. REFER TO FINISH PLAN FOR FULL EXTEND OF FLOOR FINISH LOCATIONS.
6. REFERENCE ALL ELEVATIONS FOR CLEAR EXTENT OF FINISHES IN THIS AREA.
7. ALL FINISHES, FURNITURE, AND EQUIPMENT ARE TO BE PROTECTED DURING WORK.
8. ALL EXPOSED NEW CONSTRUCTION (LISTED IN THE SCHEDULE OR NOT) SHALL BE PAINTED, EXCEPT FOR PREFINISHED MATERIALS, UNLESS NOTED OTHERWISE.
9. ALL EXPOSED PIPING, DUCTWORK ELECTRICAL CONDUIT, SPRINKLER PIPING, AND ALL OTHER EXPOSED MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION ITEMS TO BE PAINTED, UNLESS NOTED OTHERWISE.
10. ALL EXPOSED STRUCTURAL SURFACES INCLUDING BUT NOT LIMITED TO, FRAMING, DECKING, LINTELS ETC. SHALL BE PAINTED, UNLESS NOTED OTHERWISE.
11. SEAL ALL AREAS OF EXPOSED CONCRETE.
12. ALL NEW HOLLOW METAL DOORS AND FRAMES (ALL EXPOSED FACES) SHALL BE PAINTED, UNLESS NOTED OTHERWISE.
13. DO NOT PAINT PREFINISHED ITEMS (FACE BRICK, FIRE ALARM DEVICES, TILE FINISHES, ETC).
14. CONTRACTOR TO FIELD VERIFY CONDITIONS AT EACH TRANSITION AND SIZE REDUCERS ACCORDINGLY.
15. ALL FLOORING SHALL BE STABLE, FIRM AND SLIP-RESISTANT AND SHALL COMPLY WITH SECTION 400.10(a)5 OF THE STATE OF ILLINOIS ACCESSIBILITY CODE.
16. ALL FLOOR DRAINS, CLEANOUT COVERS AND ELECTRICAL FLOOR DEVICES ARE TO BE FLUSH WITH FINISHED FLOORING. REFER TO PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
17. TRANSITIONS IN FLOOR FINISHES, COLORS, OR PATTERNS ARE TO OCCUR AT THE CENTER OF DOORS, UNLESS NOTED OTHERWISE.
18. ALL TRANSITIONS BETWEEN FLOORING MATERIALS TYPES ARE TO RECEIVE A TRANSITION STRIP, UNLESS NOTED OTHERWISE.
19. FLOOR FINISHES INDICATED IN SCHEDULE SHALL CONTINUE UNDER ALL FIXTURES, EQUIPMENT, AND CASEWORK, UNLESS NOTED OTHERWISE.
20. PROVIDE WALL BASE AT ALL LOCATIONS OF NEW FLOOR FINISH AND/OR NEW WALL CONSTRUCTION, UNLESS NOTED OTHERWISE.
21. FIELD VERIFY ALL DIMENSIONS.

FINISH PLAN LEGEND

- SEALED CONCRETE
- POURED EPOXY FLOOR (EPY-1)
- POURED EPOXY FLOOR (EPY-2)
- FLOOR DRAIN (FD)
- FLOOR CLEAN OUT (FCO)
- FLOOR SINK (FS)

ALL FD, FCO AND FS TOP TO BE FLUSH WITH FLOOR FINISH.

NOTE: REFERENCE SPECIFICATIONS FOR MORE FINISH AND INSTALLATION INFORMATION



2 T1 - TRANSITION DETAIL
3" = 1'-0"

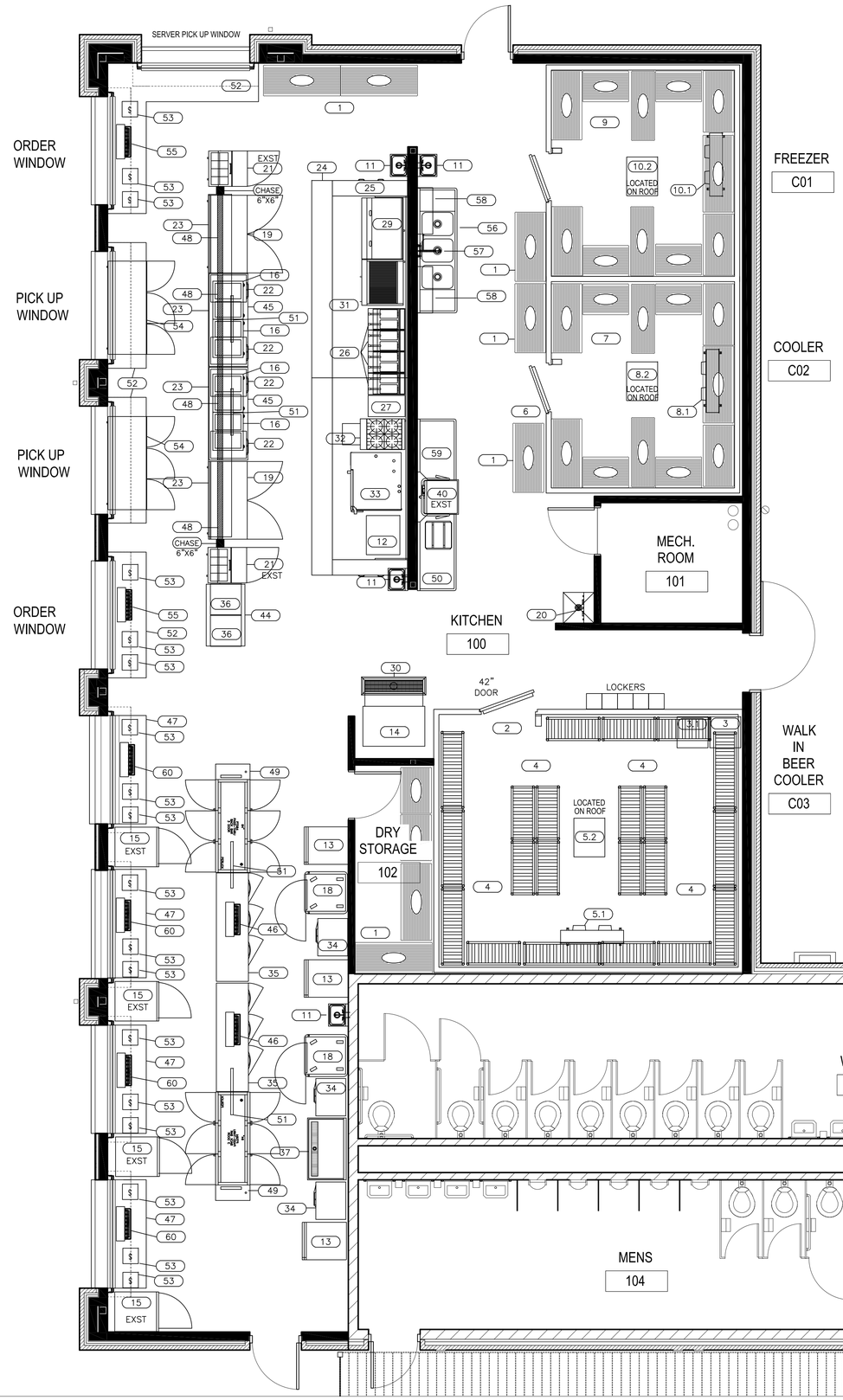
TRIA ARCHITECTURE
KITCHEN CONSULTANT: edge associates inc food service design (P) 855.962.4422
CIVIL CONSULTANT: HRGreen (P) 800.728.7805
LANDSCAPE CONSULTANT: JSD (P) 312.644.3379
STRUCTURAL CONSULTANT: Larson Engineering, Inc. (P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES
VILLAGE GREEN CONCESSIONS
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER:	24-002	DATE	
PROJECT MANAGER:	PSN	REVISION	
DRAWN BY:	MM & PSN		
ISSUE FOR BID & PERMIT:	09/05/24		

FINISH PLAN AND ROOM FINISH SCHEDULE

A9.10



FOOD SERVICE EQUIPMENT

ITEM NUMBER	QUANTITY	ITEM DESCRIPTION
1	LOT	DRY STORAGE SHELVING
2	1	WALK IN BEER COOLER
3	1	GLYCOL POWER PACKS
3.1	1	GLYCOL POWER PACKS
4	LOT	KEG SHELVING
5.1	1	EVAPORATOR COIL - BEER COOLER
5.2	1	CONDENSING UNIT - VERIFY LOCATION
6	1	WALK IN COOLER / FREEZER
7	LOT	COOLER SHELVING
8.1	2	EVAPORATOR COILS - COOLER
8.2	1	CONDENSNG UNIT - VERIFY LOCATION
9	LOT	FREEZER SHELVING
10.1	1	EVAPORATOR COIL - FREEZER
10.2	1	CONDENSING UNIT - VERIFY LOCATION
11	4	HAND SINKS W/ SIDE SPLASHES
12	1	SMOKER, ELECTRIC
13	3	GLASS DOOR MERCHANDISERS - EXISTING
14	1	ICE MAKER W/ BIN
15	4	1 DOOR REFRIGERATOR - EXISTING
16	4	HOT FOOD WELLS - COUNTERTOP - 4 WELL
17	-	OPEN NUMBER
18	2	HEATED CABINETS - MOBILE
19	2	WORK TOP REFRIGERATORS
20	1/1	MOP SINK / CHEMICAL SHELF & MOP HANGER
21	2	REFRIGERATOR - SALAD TOP - EXISTING
22	4	HEATED DRAWERS
23	4	DOUBLE OVERSHELVES
24	1	EXHAUST HOOD
25	1	FIRE SUPPRESSION SYSTEM
26	4	FRYERS W/ FILTERS
27	1	DUMP STATION
28	-	OPEN NUMBER
29	1	GRIDDLE - 48" W/ STAND
30	1	FLOOR TROUGH
31	1	CHAR GRILL W/ STAND
32	1	4 BURNER RANGE W/ OVEN BASE
33	1	DOUBLE COMBI OVEN W/ FILTER
34	3	TRIPLE HEATED DRAWERS, MOBILE
35	2	3 DOOR COOLERS - KEG
36	2	CHURRO WARMERS
37	1	BEVERAGE COUNTER W/ TROUGH
38	-	OPEN NUMBER
39	-	OPEN NUMBER
40	1	DISHMACHINE W/ BOOSTER - VENTLESS
41	-	OPEN NUMBER
42	-	OPEN NUMBER
43	-	OPEN NUMBER
44	1	WORK TABLE
45	2	WORK TABLES
46	2	8 BEER HEADS W/ DRIP PANS
47	4	FRONT COUNTERS W/ LEDGE - S/S
48	4	HEAT LAMPS
49	2	3 DOOR PASS THRU U.C. COOLERS
50	1	SOILED DISHTABLE W/ PRE RINSE
51	4	MONITORS - BY OWNER
52	4	FRONT COUNTERS W/ LEDGE - S/S
53	18	POS SYSTEMS - BY OWNER
54	2	3 DOOR REFRIGERATORS, UNDERCOUNTER
55	2	8 BEER HEADS W/ DRIP PANS
56	1	3 COMPARTMENT SINK
57	1	PRE RINSE SPRAY & FAUCET
58	2	WALL SHELVES
59	1	CLEAN DISHTABLE
60	4	8 BEER HEADS W/ DRIP PAN-TWO TIER

TRIA ARCHITECTURE

KITCHEN CONSULTANT: edge associates inc. food service design
108 W WILSON STREET, SUITE 2L
BATAVIA, ILLINOIS 60510
(P) 855.962.4422

CIVIL CONSULTANT: HRGreen
33 N. LASALLE STREET, 22ND FLOOR
CHICAGO, ILLINOIS 60606
(P) 800.728.7805

LANDSCAPE CONSULTANT: JSD
1400 E. TOUHY AVENUE, SUITE 215
DES PLAINES, ILLINOIS 60018
(P) 312.644.3379

STRUCTURAL CONSULTANT: Larson Engineering, Inc.
1488 BOND STREET, SUITE 100
WATERVILLE ILLINOIS 60563-8303
(P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

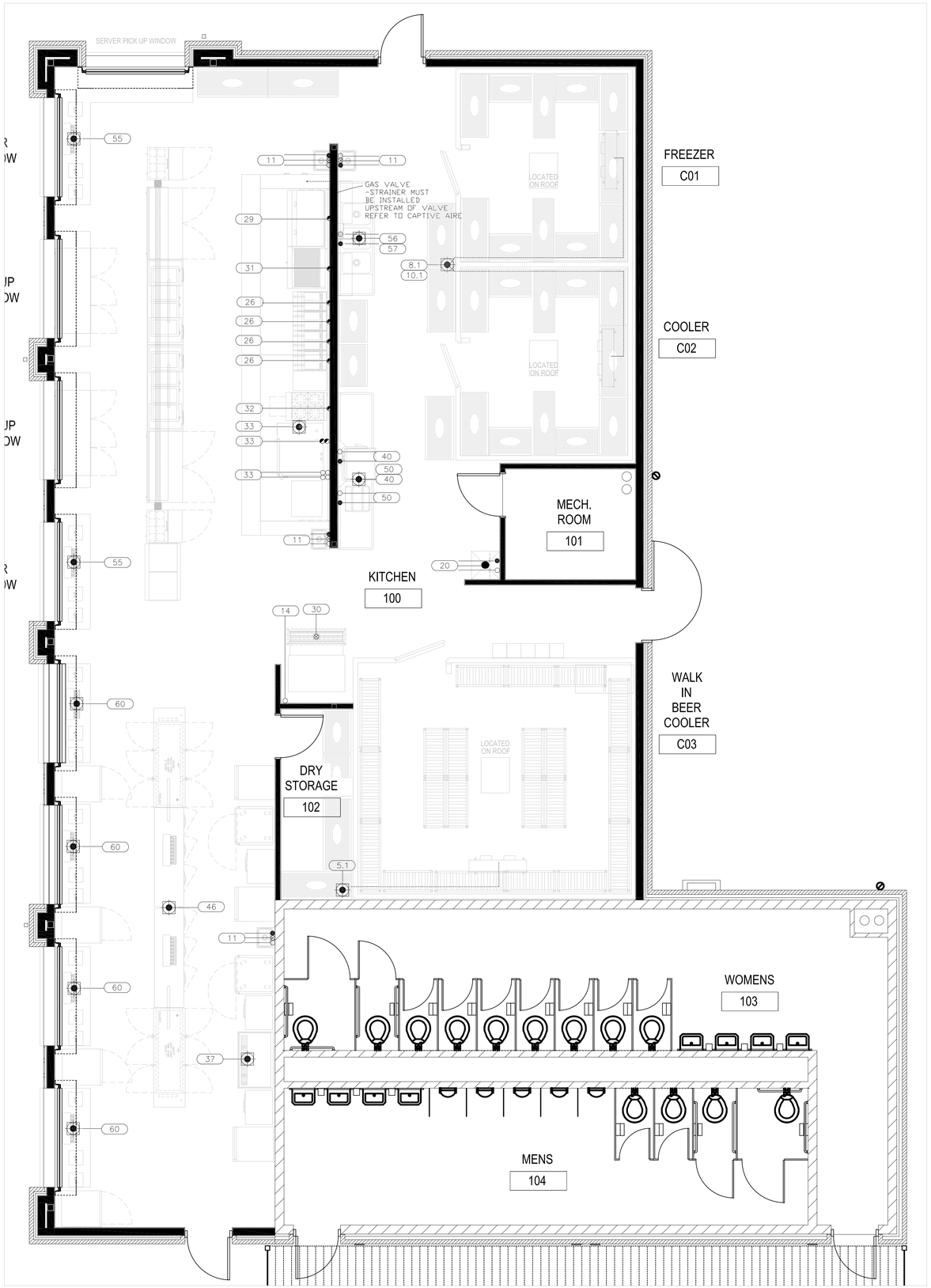
PROJECT NUMBER:	24-002
PROJECT MANAGER:	PSN
DRAWN BY:	MBP

REVISION	DATE

ISSUED FOR BID & PERMIT: 09/05/24

FOOD SERVICE EQUIPMENT PLAN

FS.1



FOOD SERVICE EQUIPMENT

MECHANICAL SCHEDULE

ITEM NUMBER	QUANTITY	ITEM DESCRIPTION	WATER CONNECTIONS: HOT WATER SIZE	WATER CONNECTIONS: COLD WATER SIZE	WATER CONNECTIONS: STUB UP HEIGHT	WATER CONNECTIONS: EQUIP. HEIGHT	WATER CONNECTIONS: H.W. CONSUMPTION GAL. PER HOUR	DRAINS: IND. WASTE SIZE	DRAINS: DIRECT WASTE SIZE	DRAINS: WASTE HEIGHT	GAS: GAS LINE SIZE	GAS: GAS HEIGHT AFF	GAS: MBTU LOAD HEIGHT A.F.F.	GAS: WATER COLUMN	STEAM: STEAM SUPP. SIZE	STEAM: COND. RETURN SIZE	STEAM: HEIGHT	STEAM: BOILER H.P.	REMARKS
1	LOT	DRY STORAGE SHELVING																	
2	1	WALK IN BEER COOLER																	
3	1	GLYCOL POWER PACKS																	
3.1	1	GLYCOL POWER PACKS																	
4	LOT	KEG SHELVING																	
5.1	1	EVAPORATOR COIL - BEER COOLER						1"		FS									
5.2	1	CONDENSING UNIT - VERIFY LOCATION																	
6	1	WALK IN COOLER / FREEZER																	
7	LOT	COOLER SHELVING																	
8.1	2	EVAPORATOR COILS - COOLER						1"		FS									
8.2	1	CONDENSNG UNIT - VERIFY LOCATION																	
9	LOT	FREEZER SHELVING																	
10.1	1	EVAPORATOR COIL - FREEZER						1"		FS									
10.2	1	CONDENSING UNIT - VERIFY LOCATION																	
11	4	HAND SINKS W/ SIDE SPLASHES	.5"	.5"	12"	40"			1.5"	-									
12	1	SMOKER, ELECTRIC																	
13	3	GLASS DOOR MERCHANDISERS - EXISTING																	
14	1	ICE MAKER W/ BIN		.5"	12"	-		.75"		-									CW THRU FILTER - DRAIN TO FLOOR TROUGH
15	4	1 DOOR REFRIGERATOR - EXISTING																	
16	4	HOT FOOD WELLS - COUNTERTOP - 4 WELL																	
17	-	OPEN NUMBER																	
18	2	HEATED CABINETS - MOBILE																	
19	2	WORK TOP REFRIGERATORS																	
20	1/1	MOP SINK / CHEMICAL SHELF & MOP HANGER	.5"	.5"	36"	36"			2"	0"									
21	2	REFRIGERATOR - SALAD TOP - EXISTING																	
22	4	HEATED DRAWERS																	
23	4	DOUBLE OVERSHELVES																	
24	1	EXHAUST HOOD																	
25	1	FIRE SUPPRESSION SYSTEM																	
26	4	FRYERS W/ FILTERS									.75"	16"	110						EACH
27	1	DUMP STATION																	
28	-	OPEN NUMBER																	
29	1	GRIDDLE - 48" W/ STAND									.75"	16"	128						
30	1	FLOOR TROUGH							4"	-4"									
31	1	CHAR GRILL W/ STAND									.75"	16"	90						
32	4	4 BURNER RANGE W/ OVEN BASE									.75"	16"	160						
33	1	DOUBLE COMBI OVEN W/ FILTER		(2).75	24"/48"	-		2"		FS	.5"	16'/32'	68.2						ONE CW TREATED / ONE CW UNTREATED - EACH
34	3	TRIPLE HEATED DRAWERS, MOBILE																	
35	2	3 DOOR COOLERS - KEG																	
36	2	CHURRO WARMERS																	
37	1	BEVERAGE COUNTER W/ TROUGH						.5"		FS									
38	-	OPEN NUMBER																	
39	-	OPEN NUMBER																	
40	1	DISHMACHINE W/ BOOSTER - VENTLESS	.75"	.5"	12"	-		1.5"		FS									CW FOR DRAIN TEMP. KIT - VERIFY
41	-	OPEN NUMBER																	
42	-	OPEN NUMBER																	
43	-	OPEN NUMBER																	
44	1	WORK TABLE																	
45	2	WORK TABLES																	
46	2	8 BEER HEADS W/ DRIP PANS						.5"		FS									VERIFY W/ VENDOR
47	4	FRONT COUNTERS W/ LEDGE - S/S																	
48	4	HEAT LAMPS																	
49	2	3 DOOR PASS THRU U.C. COOLERS																	
50	1	SOILED DISHTABLE W/ PRE RINSE	.5"	.5"	12"	40"		1.5"		FS									VERIFY
51	4	MONITORS - BY OWNER																	
52	4	FRONT COUNTERS W/ LEDGE - S/S																	
53	18	POS SYSTEMS - BY OWNER																	
54	2	3 DOOR REFRIGERATORS, UNDERCOUNTER																	
55	2	8 BEER HEADS W/ DRIP PANS						.5"		FS									
56	1	3 COMPARTMENT SINK						1.5"		FS									MANIFOLD DRAIN LINES - THRU GREASE TRAP
57	1	PRE RINSE SPRAY & FAUCET	.5"	.5"	12"	40"													
58	2	WALL SHELVES																	
59	1	CLEAN DISHTABLE																	
60	4	8 BEER HEADS W/ DRIP PAN-TWO TIER						.5"		FS									

SYMBOLS

- FLOOR SINK (FS)
- FLOOR DRAIN (FD)
- FLOOR DRAIN W/FUNNEL (FDF)
- HOT WATER (HW)
- COLD WATER (CW)
- GAS
- DIRECT WASTE (DW)

AFF = ABOVE FIN. FLR
FA = DOWN FROM ABV.

PLUMBING SYMBOLS

●	HW.	HOT WATER LINE STUB
○	CW.	COLD WATER LINE STUB
⊗	DW.	DIRECT WASTE CONNECTION
	FD.	FLUSH FLOOR DRAIN AND GRATE
	IND.	INDIRECT WASTE DRAIN
	FS.	12" SQUARE FLOOR RECEPTOR
◕	GAS	GAS SUPPLY LINE STUB
	F.D./F.	FLOOR DRAIN W/ FUNNEL
○	SS.	STEAM SUPPLY
○	CR.	CONDENSATE RETURN
	AFF.	ABOVE FINISHED FLOOR
	FA.	DOWN FROM ABOVE

TRADE CONTRACTORS NOTES

1. ALL CONNECTIONS SHOWN ARE THE APPROXIMATE CONNECTION LOCATIONS REQUIRED FOR THE FOOD SERVICE EQUIPMENT BEING FURNISHED BY THE KITCHEN CONTRACTOR AND ALLOWANCES MUST BE MADE TO EXTEND TO THE FINAL CONNECTION.
2. ANY CHANGES TO THESE LOCATIONS SHOULD BE VERIFIED WITH THE ARCHITECT OR FOOD SERVICE CONTRACTOR.
3. ALL DIMENSIONS SHOWN ARE FROM FINISHED WALLS, COLUMNS AND FLOORS. WHERE BASE SIZES ARE SHOWN, THEY SHALL INCLUDE FINISHED SURFACES.
4. TRADES ARE TO MAKE THE FINAL CONNECTIONS FROM ELECTRICAL SERVICE LOCATIONS INDICATED TO EQUIPMENT PER LOCAL CODES.
5. FOR ADDITIONAL INFORMATION REFER TO DETAIL DRAWINGS, MANUFACTURERS SHOP DRAWINGS, SPECIFICATIONS, AND BROCHURE BOOK.
6. VARIOUS TRADES TO BE RESPONSIBLE FOR THE INSTALLATION & FINAL CONNECTION OF ELECTRICAL & PLUMBING COMPONENTS (FAUCETS, WASTES, CONTROL PANELS, ETC.) PROVIDED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR.
7. TRADES SHALL PROVIDE OUTLETS IN EQUIPMENT AS CALLED FOR IN THE FIELD AND DO ALL CONTROL WIRING.
8. VARIOUS TRADES TO FURNISH ANY ADDITIONAL HARDWARE REQUIRED FOR THE PROPER OPERATION OF FOOD SERVICE EQUIPMENT SUCH AS VALVES, STOPS, TRAPS, DISCONNECT SWITCHES AND WIRING TO CONTROL EQUIPMENT LIKE SODA AND REMOTE COMPRESSORS, FIRE SYSTEM AND DISPOSERS AS REQUIRED.
9. TRADES SHALL FURNISH CONNECTIONS TO EQUIPMENT SETTING ON COUNTERS THAT DO NOT COME WITH CORD & PLUGS, FROM OUTLET BOX OR RECEPTACLE.
10. TRADES TO CO-ORDINATE W/ FIRE PROTECTION CONTRACTOR AND INSTALL SHUNT TRIPS IN ELECTRICAL PANELS TO SHUT OFF COOKING EQUIPMENT ITEMS IN CONJUNCTION WITH FIRE SYSTEMS AND RUN TO FIRE ALARM AND VALVES.
11. TRADES TO CO-ORDINATE W/FIRE PROTECTION CONTRACTOR AND INSTALL AUTOMATIC FIRE GAS SHUT-OFF VALVE AND RUN TO FIRE ALARM OR CONTROL PANEL IF REQUIRED. KITCHEN EQUIPMENT CONTRACTOR TO ADVISE TRADES IF MECHANICAL OR SOLENOID SHUT-OFF VALVE IS BEING PROVIDED.
12. TRADES TO PROVIDE OCTAGONAL 4" BOXES (-1/4") WITH 3/4" CONDUIT TO ABOVE FINISHED CEILING FOR FIRE PROTECTION SYSTEM REMOTE PULLS. VERIFY LOCATIONS WITH PROPER AUTHORITY.
13. TRADES TO PROVIDE AND INSTALL GAS PRESSURE REGULATOR VALVE FROM 10 LBS. TO 8" W.C. TO INSURE EQUIPMENT TO OPERATE AT PROPER GAS PRESSURE.
14. ALL DIMENSIONS MUST BE VERIFIED AND AGREE WITH THE LATEST ARCHITECTURAL PLAN.
15. TRADES TO VERIFY WITH OWNER/OPERATOR REQUIREMENTS FOR CASH SYSTEM AND TO SUPPLY ALL NECESSARY COMPONENTS FOR ITS PROPER OPERATION.
16. TRADES TO VERIFY W/MECHANICAL ENGINEER AND LOCAL CODES ALL REQUIRED COMPONENTS (SUCH AS GREASE TRAPS, VACUUM BREAKERS ETC.) FOR THE PROPER OPERATION OF FOOD SERVICE EQUIPMENT AND TYPE OF DRAIN CONNECTIONS REQUIRED AND INSTALL ACCORDINGLY.
17. TRADES TO SUPPLY AND INSTALL ALL REQUIRED PRESSURE REDUCING AND REGULATING VALVES REQUIRED FOR THE PROPER OPERATION OF FOOD SERVICE EQUIPMENT.
18. ELECTRICAL OUTLETS AND PIPING ROUGHED UP UNDER ISLAND EQUIPMENT TO BE STUBBED UP A MAXIMUM OF 4" OR LESS NOT TO INTERFERE WITH INSTALLED EQUIPMENT. ALL FLOOR OPENINGS TO BE SEALED WATER TIGHT.
19. VERIFY W/EQUIPMENT MANUFACTURER PROPER PLUMBING CONNECTIONS AND REQUIREMENTS FOR COFFEE MAKERS, BEVERAGE DISPENSERS, AND ICE MAKERS. PROVIDE BACKFLOW AND/OR RPZ VALVES AS REQUIRED BY LOCAL CODES.
20. ALL CONNECTIONS, ELECTRICAL AND PLUMBING, SHALL BE PER STATE AND LOCAL CODES.
21. ARCHITECT, ENGINEER, & BUILDING TRADES TO VERIFY BUILDING CODE IN REGARD TO ACCEPTABLE DRAIN PIPE MATERIAL. FOODSERVICE DRAINS NEED TO ACCOMODATE TEMPERATURES ABOVE 210°F. DRAINAGE SYSTEM NEEDS TO BE DESIGNED ACCORDINGLY
22. ALL CURBS (I.E. MASONRY BASES FOR FOODSERVICE EQUIPMENT, ROOF CURBS FOR FANS & REFRIGERATION RACKS ETC.) AS REQUIRED, ARE NOT PROVIDED BY THE K.E.C.

TRIA ARCHITECTURE

KITCHEN CONSULTANT: edge associates inc. food service design — 108 W. WILSON STREET, SUITE 2L, BAVARIA, ILLINOIS 60510 — (P) 855.862.4422

CIVIL CONSULTANT: HRGreen — 311 S. WACKER DR., 22ND FLOOR, CHICAGO, ILLINOIS 60606 — (P) 800.728.7805

LANDSCAPE CONSULTANT: JSD — 1400 E. TOUHY AVENUE, SUITE 215, DES PLAINES, ILLINOIS 60018 — (P) 312.644.3379

STRUCTURAL CONSULTANT: Larson Engineering, Inc. — 1488 BOND STREET, SUITE 100, WATERVILLE ILLINOIS 60563-8503 — (P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

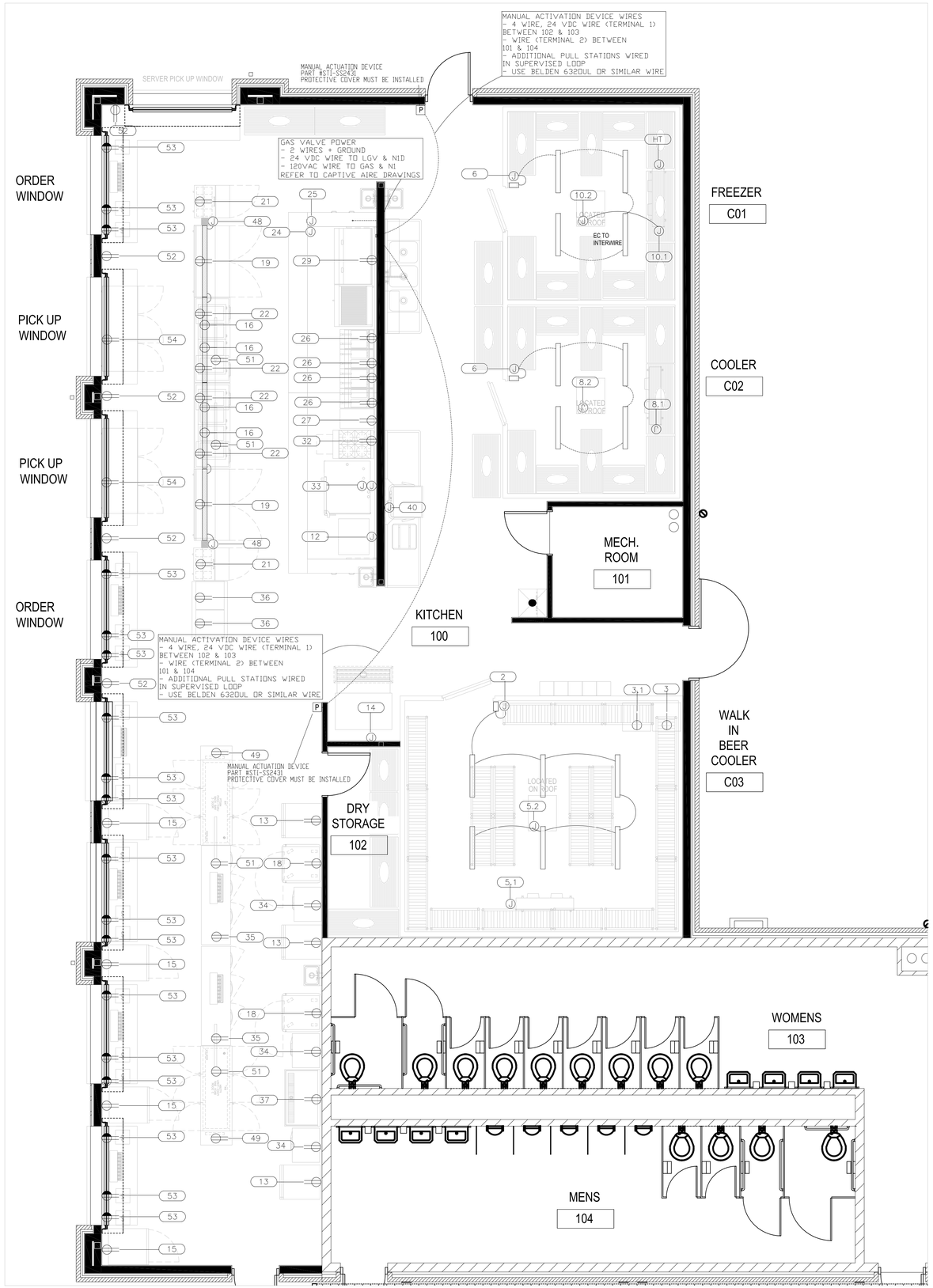
PROJECT NUMBER:	24-002
PROJECT MANAGER:	PSN
DRAWN BY:	MBP

REVISION	DATE

ISSUED FOR BID & PERMIT: 09/05/24

FOOD SERVICE
PLUMBING PLAN

FS.2



FOOD SERVICE EQUIPMENT

ELECTRICAL SCHEDULE

ITEM NUMBER	QUANTITY	ITEM DESCRIPTION	ELECTRICAL CONNECTIONS: VOLTAGE	PHASE	AMPERAGE	KILOWATTS	HORSEPOWER	TYPE OF CONN.	HEIGHT A.F.F.	EQUIP. HEIGHT	REMARKS
1	LOT	DRY STORAGE SHELVING									
2	1	WALK IN BEER COOLER	120	1	15			JB	108"	102"	FOR LIGHTS
3	1	GLYCOL POWER PACKS	208/230	1	14.5		1.5	SGR	108"	-	NEMA 6-20P - VERIFY W/ VENDOR
3.1	1	GLYCOL POWER PACKS	208/230	1	9.5		3/4	SGR	108"	-	NEMA 6-20P - VERIFY W/ VENDOR
4	LOT	KEG SHELVING									
5.1	1	EVAPORATOR COIL - BEER COOLER	120	1	2.4			JB	108"	102"	
5.2	1	CONDENSING UNIT - VERIFY LOCATION	208-230	1	18.3		2	JB			VERIFY LOCATION
6	1	WALK IN COOLER / FREEZER	120	1	15			JB	108"	102"	FOR LIGHTS AND DOOR HEATER
7	LOT	COOLER SHELVING									
8.1	2	EVAPORATOR COILS - COOLER	120	1	1.6			JB	108"	102"	
8.2	1	CONDENSNG UNIT - VERIFY LOCATION	208-230	1	11.4		1	JB			VERIFY LOCATION
9	LOT	FREEZER SHELVING									
10.1	1	EVAPORATOR COIL - FREEZER	208-230	1	9.8			JB	108"	102"	
10.2	1	CONDENSING UNIT - VERIFY LOCATION	208-230	1	17		3	JB			VERIFY LOCATION
11	4	HAND SINKS W/ SIDE SPLASHES									
12	1	SMOKER, ELECTRIC	208	1	57	3.2		JB	14"	-	CORD, NO PLUG
13	3	GLASS DOOR MERCHANDISERS - EXISTING	120	1	15		1/4	DGR	48"		NEMA 5-15P - VERIFY
14	1	ICE MAKER W/ BIN	208	1	20		1	JB	18"	-	
15	4	1 DOOR REFRIGERATOR - EXISTING	120	1	10		1/4	DGR	48"		NEMA 5-15P - EXISTING
16	4	HOT FOOD WELLS - COUNTERTOP - 4 WELL	120	1	15	1.8		SGR	4"		NEMA 5-20P
17	-	OPEN NUMBER									
18	2	HEATED CABINETS - MOBILE	120	1	11.3	1.35		DGR	14"		NEMA 5-15P
19	2	WORK TOP REFRIGERATORS	120	1	10		1/4	DGR	4"		NEMA 5-15P
20	1/1	MOP SINK / CHEMICAL SHELF & MOP HANGER									
21	2	REFRIGERATOR - SALAD TOP - EXISTING	120	1	15		1/4	DGR	4"		NEMA 5-15P
22	4	HEATED DRAWERS	120	1	3.75	.45		DGR	4"		NEMA 5-15P
23	4	DOUBLE OVERSHELVES									
24	1	EXHAUST HOOD	120	1	15			JB	108"	102"	FOR LIGHTS
25	1	FIRE SUPPRESSION SYSTEM	120	1	15			JB	108"	102"	
26	4	FRYERS W/ FILTERS	120	1	15			DGR	14"		NEMA 5-15P
27	1	DUMP STATION	120	1	6.3			DGR	14"		NEMA 5-15P
28	-	OPEN NUMBER									
29	1	GRIDDLE - 48" W/ STAND	120	1	15			DGR	14"		NEMA 5-15P
30	1	FLOOR TROUGH									
31	1	CHAR GRILL W/ STAND									
32	1	4 BURNER RANGE W/ OVEN BASE	120	1	15			DGR	14"		NEMA 5-15P- FOR OVEN CONTROLS
33	1	DOUBLE COMBI OVEN W/ FILTER	120	1	6.1	.6		JB	14"/48"	-	EACH
34	3	TRIPLE HEATED DRAWERS, MOBILE	120	1	7.5	.9		DGR	4"		NEMA 5-15P- VERIFY
35	2	3 DOOR COOLERS - KEG	120	1	10		1/4	DGR	14"		NEMA 5-15P
36	2	CHURRO WARMERS	120	1	10	1		DGR	4"		NEMA 5-15P
37	1	BEVERAGE COUNTER W/ TROUGH	120	1	15			DGR	50"		NEMA 5-15P- CONVENIENCE OUTLET
38	-	OPEN NUMBER									
39	-	OPEN NUMBER									
40	1	DISHMACHINE W/ BOOSTER - VENTLESS	208	3	46		2	JB	14"	-	VERIFY
41	-	OPEN NUMBER									
42	-	OPEN NUMBER									
43	-	OPEN NUMBER									
44	1	WORK TABLE	120	1	15			DGR	4"		NEMA 5-15P - CONVENIENCE OUTLETS
45	2	WORK TABLES	120	1	15		1/4	DGR	50"		NEMA 5-15 - CONVENIENCE OUTLETS
46	2	8 BEER HEADS W/ DRIP PANS									
47	4	FRONT COUNTERS W/ LEDGE - S/S									
48	4	HEAT LAMPS	120	1	15	1		JB	FA	-	FROM ABOVE DOWN CHASE TO JBOX - CONN. TO INFINITE CONTROLS
49	2	3 DOOR PASS THRU U.C. COOLERS	120	1	2.75		1/4	DGR	4"		NEMA 5-15P
50	1	SOILED DISHTABLE W/ PRE RINSE									
51	4	MONITORS - BY OWNER	120	1	15			DGR	FA		FROM ABOVE - VERIFY W/ OWNER
52	4	FRONT COUNTERS W/ LEDGE - S/S	120	1	15			DGR	50"		NEMA 5-15P- CONVENIENCE OUTLETS
53	18	POS SYSTEMS - BY OWNER	120	1	15			DDGR	14"		DEDICATED CIRCUITS - VERIFY W/ OWNER
54	2	3 DOOR REFRIGERATORS, UNDERCOUNTER	120	1	5		1/4	DGR	14"		NEMA 5-15P
55	2	8 BEER HEADS W/ DRIP PANS									
56	1	3 COMPARTMENT SINK									
57	1	PRE RINSE SPRAY & FAUCET									
58	2	WALL SHELVES									
59	1	CLEAN DISHTABLE									
60	4	8 BEER HEADS W/ DRIP PAN-TWO TIER									

SYMBOLS

- JUNCTION BOX (JB)
- DUPLEX RECEPTACLE (DGR)
- SINGLE RECEPTACLE (SGR)
- DEDICATED DUPLEX RECEPTACLE (DDGR)
- JB ON EQUIPMENT
- P ANSUL FIRE PULL

FA=WIRING FROM ABV.
AFF=ABOVE FIN FLR

TRADE CONTRACTORS NOTES

1. ALL CONNECTIONS SHOWN ARE THE APPROXIMATE CONNECTION LOCATIONS REQUIRED FOR THE FOOD SERVICE EQUIPMENT BEING FURNISHED BY THE KITCHEN CONTRACTOR AND ALLOWANCES MUST BE MADE TO EXTEND TO THE FINAL CONNECTION.
2. ANY CHANGES TO THESE LOCATIONS SHOULD BE VERIFIED WITH THE ARCHITECT OR FOOD SERVICE CONTRACTOR.
3. ALL DIMENSIONS SHOWN ARE FROM FINISHED WALLS, COLUMNS AND FLOORS. WHERE BASE SIZES ARE SHOWN, THEY SHALL INCLUDE FINISHED SURFACES.
4. TRADES ARE TO MAKE THE FINAL CONNECTIONS FROM ELECTRICAL SERVICE LOCATIONS INDICATED TO EQUIPMENT PER LOCAL CODES.
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8. VARIOUS TRADES TO FURNISH ANY ADDITIONAL HARDWARE REQUIRED FOR THE PROPER OPERATION OF FOOD SERVICE EQUIPMENT SUCH AS VALVES, STOPS, TRAPS, DISCONNECT SWITCHES, ETC. FOR EXAMPLE, EQUIPMENT LIKE SODA AND REMOTE COMPRESSORS, FIRE SYSTEM AND DISPENSERS AS REQUIRED.
9. TRADES SHALL FURNISH CONNECTIONS TO EQUIPMENT SETTING ON COUNTERS THAT DO NOT COME WITH CORD & PLUGS, FROM OUTLET BOX OR RECEPTACLE.
10. TRADES TO CO-ORDINATE W/ FIRE PROTECTION CONTRACTOR AND INSTALL SHUNT TRIPS IN ELECTRICAL PANELS TO SHUT OFF COOKING EQUIPMENT ITEMS IN CONJUNCTION WITH FIRE SYSTEMS AND RUN TO FIRE ALARM AND VALVES.
11. TRADES TO CO-ORDINATE W/FIRE PROTECTION CONTRACTOR AND INSTALL AUTOMATIC FIRE GAS SHUT OFF VALVE IN LINE AND WIRE VALVE TO CONTROL PANEL IF REQUIRED. KITCHEN EQUIPMENT CONTRACTOR TO ADVISE TRADES IF MECHANICAL OR SOLENOID SHUT-OFF VALVE IS BEING PROVIDED.
12. TRADES TO PROVIDE OCTAGONAL 3" BOXES (+54" WITH 3/4" CONDUIT TO ABOVE FINISHED CEILING FOR FIRE PROTECTION SYSTEM REMOTE PULLS. VERIFY LOCATIONS WITH PROPER AUTHORITY.
13. TRADES TO PROVIDE AND INSTALL GAS PRESSURE REGULATOR VALVE FROM 10 LBS. TO 6" W.C. TO INSURE EQUIPMENT TO OPERATE AT PROPER GAS PRESSURE.
14. ALL DIMENSIONS MUST BE VERIFIED AND AGREE WITH THE LATEST ARCHITECTURAL PLAN.
15. TRADES TO VERIFY WITH OWNER/OPERATOR REQUIREMENTS FOR CASH SYSTEM AND TO SUPPLY ALL NECESSARY COMPONENTS FOR ITS PROPER OPERATION.
16. TRADES TO VERIFY W/MECHANICAL ENGINEER AND LOCAL CODES ALL REQUIRED COMPONENTS (SUCH AS GREASE TRAPS, VACUUM BREAKERS ETC.) FOR THE PROPER OPERATION OF FOOD SERVICE EQUIPMENT AND TYPE OF DRAIN CONNECTIONS REQUIRED AND INSTALL ACCORDINGLY.
17. TRADES TO SUPPLY AND INSTALL ALL REQUIRED PRESSURE REDUCING AND REGULATING VALVES REQUIRED FOR THE PROPER OPERATION OF FOOD SERVICE EQUIPMENT.
18. ELECTRICAL OUTLETS AND PIPING ROUGHED UP UNDER ISLAND EQUIPMENT TO BE STUBBED UP A MAXIMUM OF 4" OR LESS NOT TO INTERFERE WITH INSTALLED EQUIPMENT. ALL FLOOR OPENINGS TO BE SEALED WATER TIGHT.
19. VERIFY W/EQUIPMENT MANUFACTURER PROPER PLUMBING CONNECTIONS AND REQUIREMENTS FOR COFFEE MAKERS, BEVERAGE DISPENSERS, AND ICE MAKERS. PROVIDE BACKFLOW AND/OR RPZ VALVES AS REQUIRED BY LOCAL CODES.
20. ALL CONNECTIONS, ELECTRICAL AND PLUMBING, SHALL BE PER STATE AND LOCAL CODES.
21. ARCHITECT, ENGINEER, & BUILDING TRADES TO VERIFY BUILDING CODE IN REGARD TO ACCEPTABLE DRAIN PIPE MATERIAL. FOODSERVICE DRAINS NEED TO ACCOMODATE TEMPERATURES ABOVE 212°F DRAINAGE SYSTEM NEEDS TO BE DESIGNED ACCORDINGLY
22. ALL CURBS (I.E. MASONRY BASES FOR FOODSERVICE EQUIPMENT, ROOF CURBS FOR FANS & REFRIGERATION RACKS ETC.) AS REQUIRED, ARE NOT PROVIDED BY THE K.E.C.

ELECTRICAL SYMBOLS

SGR.	SINGLE GROUNDED RECEPTACLE	
DGR.	DUPLEX GROUNDED RECEPTACLE	
DDGR.	DEDICATED DUPLEX GROUNDED RECEPTACLE	
C.O.	CONVENIENCE OUTLET	
SPO.	SPECIAL PURPOSE OUTLET	
DR.	DIRECT WIRED CONNECTION	
ECS.	ELECTRICAL CONDUIT STUB UP	
JB.	JUNCTION BOX	
SW.	SWITCH	
TEL.	TELEPHONE	
KW.	KILOWATTS	
V.	VOLT	
AMP.	AMPS	
HP.	HORSEPOWER	
AFF.	ABOVE FINISHED FLOOR	
FA.	WIRED FROM ABOVE	

TRIA ARCHITECTURE

KITCHEN CONSULTANT: edge associates inc. food service design — 106 W. WILSON STREET, SUITE 2L, BAVIA, ILLINOIS 60510 — (P) 855.362.4422

CIVIL CONSULTANT: HR Green — 33 W. MONROE, 22ND FLOOR, CHICAGO, ILLINOIS 60606 — (P) 800.728.7805

LANDSCAPE CONSULTANT: JSD — 1400 E. TOUHY AVENUE, SUITE 215, DES PLAINES, ILLINOIS 60018 — (P) 312.644.3379

STRUCTURAL CONSULTANT: Larson Engineering, Inc. — 1488 BOND STREET, SUITE 100, WATERVILLE ILLINOIS 60563-8563 — (P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

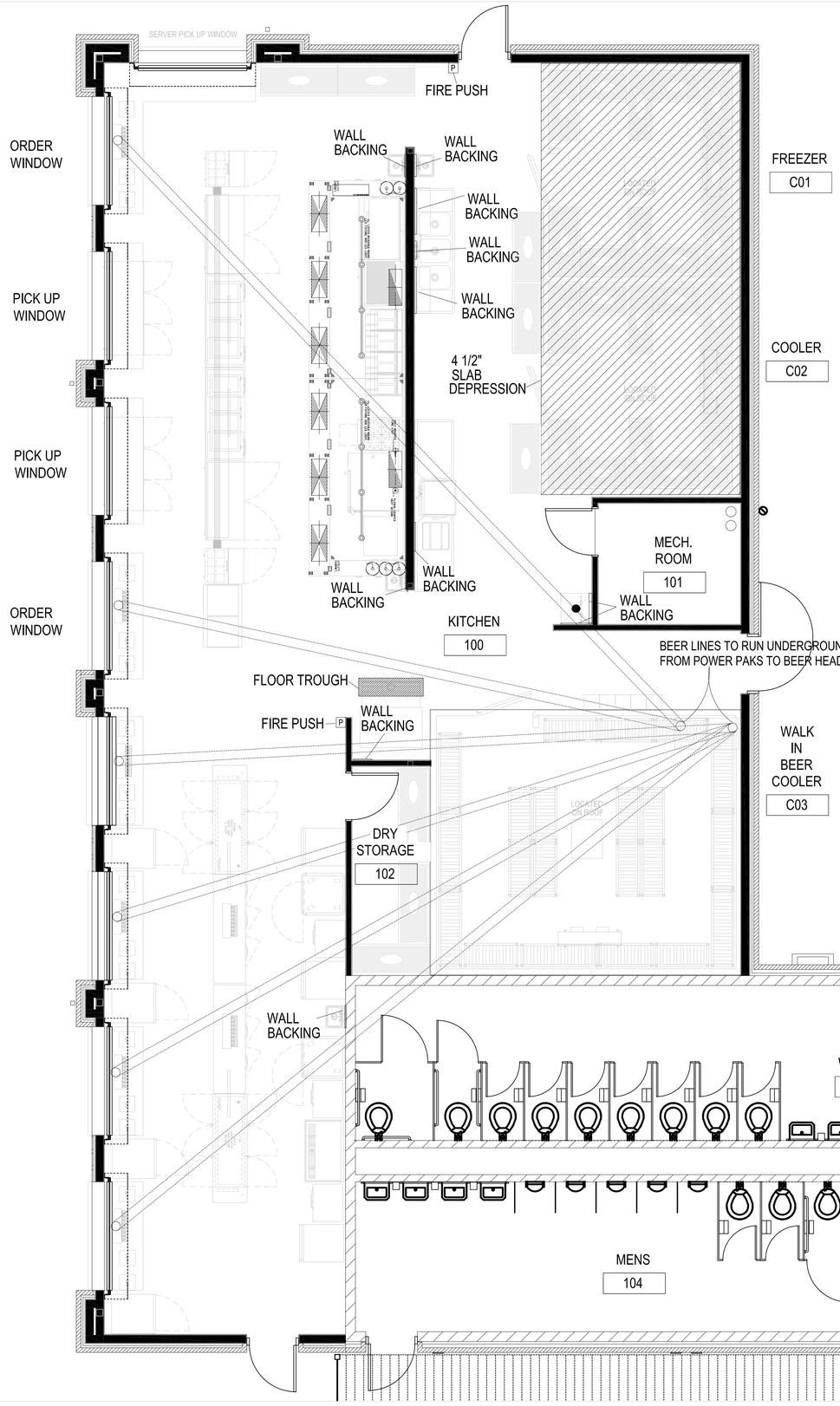
PROJECT NUMBER:	24-002
PROJECT MANAGER:	PSN
DRAWN BY:	MBP

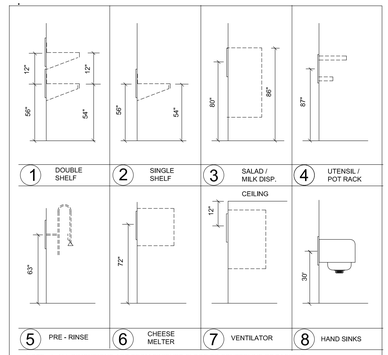
REVISION | DATE

ISSUED FOR BID & PERMIT: 09/05/24

FOOD SERVICE ELECTRICAL PLAN

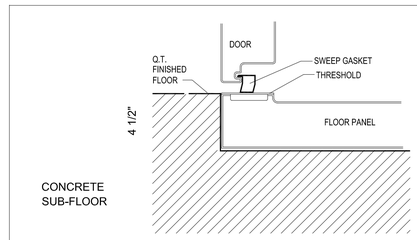
FS.3





NOTE: 1. ALL DIMENSIONS ARE FROM FINISHED FLOOR TO CENTERLINE OF BACKING
2. ALL WALL BACKING TO BE 14. GA. STEEL OR EQUAL, 12" HIGH BY LENGTH INDICATED ON PLAN, SECURELY ATTACHED TO STUDS. (STUDS TO BE 16 GA. IF METAL.)
3. ALL BACKING PROVIDED AND INSTALLED BY GENERAL CONTRACTOR.

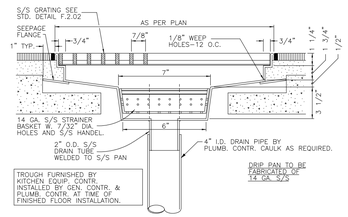
WALL BACKING DETAILS



WALK-IN FLOOR DEPRESSION DETAILS

NO SCALE

INSULATED WALK-IN FLOOR SLAB

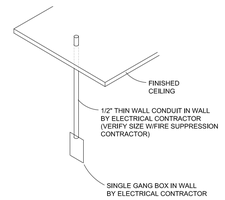


LONGITUDINAL SECTION

ROUGH SLAB APPLICATION

NO SCALE

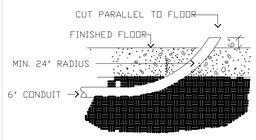
FLOOR TROUGH DETAIL



SUGGESTED FIRE SUPPRESSION

MANUAL ACTUATION DEVICE

HEIGHT AND LOCATIONS TO BE DETERMINED BY LOCAL CODES AND FIRE SUPPRESSION SYSTEM CONTRACTOR, (VERIFY REQUIREMENTS WITH FIRE SUPPRESSION SYSTEM CONTRACTOR)



UNDERGROUND CONDUIT

CONDUIT RUNS UNDERFLOOR MUST HAVE A SMOOTH INTERIOR WITH MINIMUM INSIDE DIAMETER OF SIX INCHES, AND HAVE ONLY (1) 24" OR 30" RADIUS SWEEP BEND (45° OR 90°) AT EACH END.

TRIA ARCHITECTURE

KITCHEN CONSULTANT: edge associates inc. food service design, 106 W. WILSON STREET, SUITE 2A, BAVIA, ILLINOIS 60510, (P) 855.362.4422

CIVIL CONSULTANT: HRGreen, 311 S. WACKER DR., 22ND FLOOR, CHICAGO, ILLINOIS 60606, (P) 800.728.7805

LANDSCAPE CONSULTANT: JSD, 1400 E. TOUHY AVENUE, SUITE 215, DES PLAINES, ILLINOIS 60018, (P) 312.644.3379

STRUCTURAL CONSULTANT: Larson Engineering, Inc., 1488 BOND STREET, SUITE 100, WATERVILLE ILLINOIS 60563-8503, (P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

DATE	REVISION

PROJECT NUMBER: 24-002
PROJECT MANAGER: PSN
DRAWN BY: MBP

ISSUED FOR BID & PERMIT: 09/05/24

FOOD SERVICE SPECIAL CONDITIONS PLAN

FS.4

FOR QUESTIONS, CALL THE
Chicago Foodservice Division
REGION 55
PHONE: (630) 377 - 2611
EMAIL: reg55@captiveaire.com

PATENT NUMBERS

AC-PSP (UNITED STATES) - US PATENT 7963830 B2.
AC-PSP WALL (CANADA) - CA PATENT 2820509.
AC-PSP ISLAND (CANADA) - CA PATENT 2520330.

HOOD INFORMATION - JOB#6836878

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG END TO END	ROW
1	24-L	6024 ND-2-PSP-F	CAPTIVEAIRE	11' 9"	600 DEG	I	HEAVY	250	2938	10"	28"	4"		2938	1511	-1.144"	2600	430 SS WHERE EXPOSED	LEFT	ALONE
2	24-R	6024 ND-2-PSP-F	CAPTIVEAIRE	11' 9"	600 DEG	I	HEAVY	250	2938	10"	28"	4"		2938	1511	-1.144"	2600	430 SS WHERE EXPOSED	RIGHT	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	UTILITY CABINET(S) LOCATION	SIZE	FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1	24-L	CAPTRATE SOLO FILTER	8	16"	16"	85% SEE FILTER SPEC	4	RECESSED ROUND	NO	LEFT	12"x60"x24"	TANK FS	4.0	DCV-1111	1 LIGHT 1 FAN	YES	1004 LBS
2	24-R	CAPTRATE SOLO FILTER	8	16"	16"	85% SEE FILTER SPEC	4	RECESSED ROUND	NO	RIGHT	12"x60"x24"	TANK FS	4.0			YES	1241 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	24-L	FIELD WRAPPER 18.00" HIGH FRONT, LEFT.
		BACKSPLASH 80.00" HIGH X 306.00" LONG 430 SS VERTICAL.
		BALANCE DAMPERS.
		RISER SENSOR INSTALL 6IN PLEN.
		LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
2	24-R	FIELD WRAPPER 18.00" HIGH FRONT, RIGHT.
		BALANCE DAMPERS.
		RISER SENSOR INSTALL 6IN PLEN.
		RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S) WIDTH	LENG	DIA	CFM	SP
1	24-L	Front	153"	18"	6"	MUA	12"	28"		866	0.276"
						MUA	12"	28"		866	0.276"
						MUA	12"	28"		866	0.276"
2	24-R	Front	153"	18"	6"	MUA	12"	28"		865	0.275"
						MUA	12"	28"		865	0.275"
						MUA	12"	28"		865	0.275"

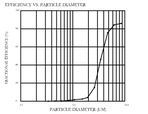
SPECIFICATION: CAPTRATE® GREASE-STOP® SOLO FILTER

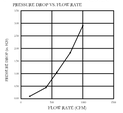
THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNELSIDS.

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

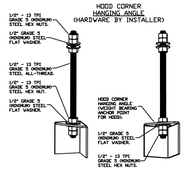
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 10 INCHES OF WATER GAUGE. THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.





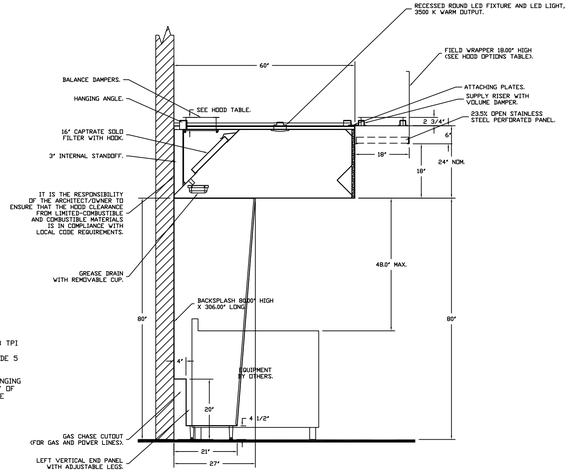
CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-S649.

HOOD CORNER HANGING ANGLE (HARDWARE BY INSTALLER)



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 37 FT-LBS.



SECTION VIEW - MODEL 6024ND-2-PSP-F
HOOD - #1 (24-L)

DUCT TEMPERATURE SENSOR (TYPICAL)

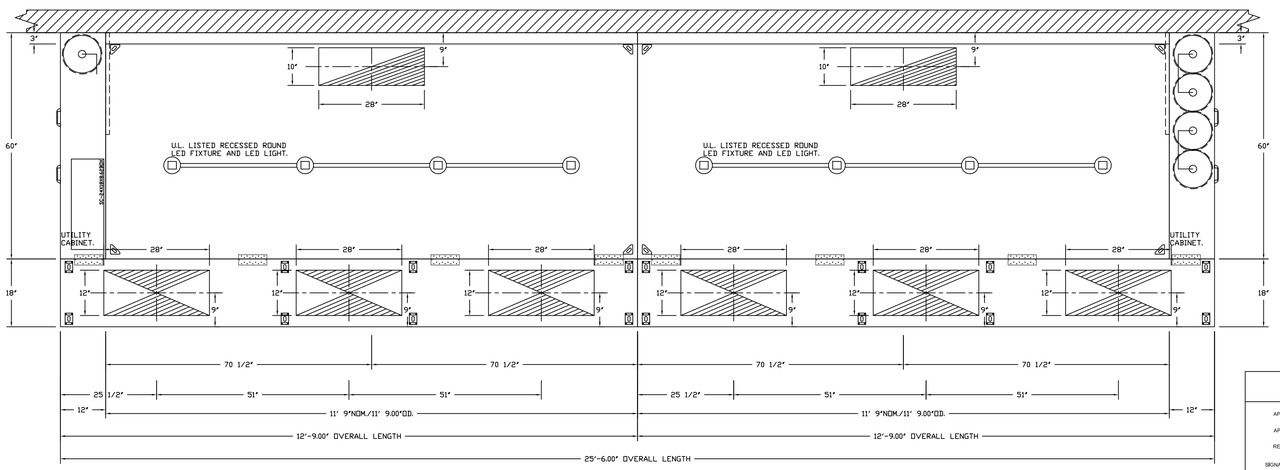
Provides exhaust air temperature for proper hood control operation. For all installations excluding a single hood with factory risers and a hood mounted panel, duct mounted temperature sensors will need to be field wired. 2-wire 18 AVG plenum rated thermistor cable must be used.

ROOM TEMPERATURE SENSOR

Provides room override based on temperature differential between the room and duct. Installed by electrician on a wall, 5'-0" off the finished floor, in the space but not directly under the hood or close to an appliance (including the electrical control box) or near HVAC register so that the reading is accurate for space.

HOOD CONTROL INTERFACE

The LCD interface provides user control and hood status. The faceplate is connected to the hood control panel with a CAT5 cable. The cable includes 2 RJ-45 connectors. One connects to port J4 or J5 in the hood control panel and the other will typically be occupied by a RJ-45 end-of-line terminator.



PLAN VIEW - HOOD #1 (24-L)
11' 9.00" LONG 6024ND-2-PSP-F

PLAN VIEW - HOOD #2 (24-R)
11' 9.00" LONG 6024ND-2-PSP-F

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH
NFPA #96
NSF
E.T.L. LISTED 3054804-001 TO UL 710 & ULC710 STANDARDS

CUSTOMER APPROVAL TO MANUFACTURE:

APPROVED AS NOTED ☐
APPROVED WITH NO EXCEPTIONS ☐
REVISIW AS NOTED AND RESUBMITT ☐
SIGNATURE: _____
YOUR TITLE: _____ DATE: _____

REVISIONS

	DESCRIPTION	DATE:
1		
2		
3		
4		

CAPTIVE-AIRE
Chicago Foodservice Division
1120 Charleston Drive, St. Charles, IL, 60174 PHONE: (630) 377 - 2611 FAX: 9195168738 EMAIL: reg55@captiveaire.com
www.captiveaire.com

Village Green - Phase II_Hoods
5510 Prairie Stone Parkway,
Hoffman Estates, IL, 60192

DATE: 6/20/2024
DWG.#: 6836878
DRAWN BY: WEM
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 1

KITCHEN CONSULTANT: edge associates inc. food service design — 108 W WILSON STREET, SUITE 2L, BATAVIA, ILLINOIS 60510 (P) 855.362.4422
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TRIA ARCHITECTURE

VILLAGE OF HOFFMAN ESTATES
VILLAGE GREEN CONCESSIONS
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER:	24-002
PROJECT MANAGER:	PSN
DRAWN BY:	MBP

REVISION	DATE

ISSUED FOR BID & PERMIT: 09/05/24
FOOD SERVICE EXHAUST
HOOD SHEET 1

FS.5

FIRE SYSTEM INFORMATION – JOB#6836878

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1	25	TANK FS	4.0	20	82	FIRE CABINET LEFT	LEFT, HOOD 1
			4.0/4.0/4.0/4.0	80		FIRE CABINET RIGHT	RIGHT, HOOD 2

GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1	25	SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS

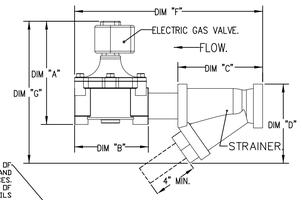
GAS VALVE FOR FS#1

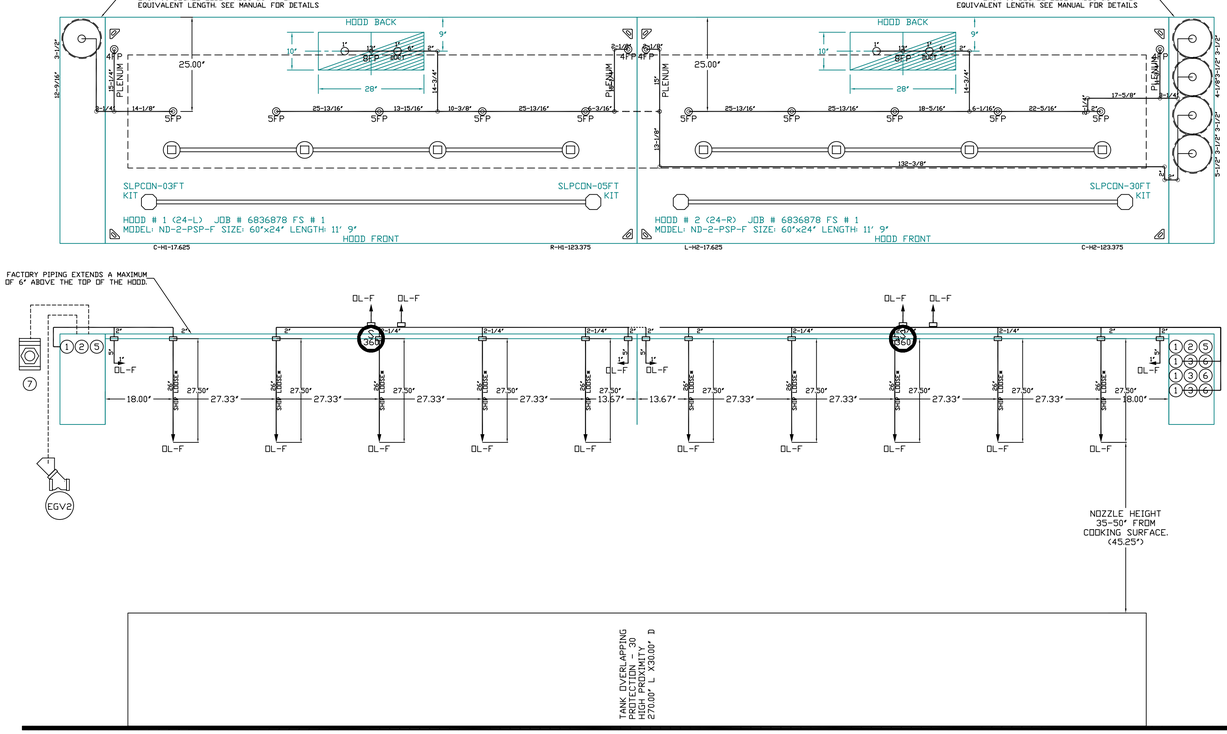
GAS VALVES AND STRAINERS																	
GAS VALVE SIZING							GAS VALVE DIMENSIONS						INSTALLATION	PART NUMBERS			
TYPE	SIZE	VOLTAGE	MIN. INLET PRESSURE	MAX. INLET PRESSURE	FLOW AT 1 IN.W.C. DROP NATURAL GAS	FLOW AT 1 IN.W.C. DROP PROPANE	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"	DIM "G"	MOUNTING ORIENTATION	GAS VALVE PART NUMBER	STRAINER PART NUMBER	GAS VALVE/STRAINER KIT
ELECTRICAL	2"	120 VAC	0 PSI (0 IN.W.C.)	5 PSI (138 IN.W.C.)	2,940,500 BTU/HR	1,908,048 BTU/HR	7-5/8"	6-3/8"	7-1/4"	7-13-16"	15-5/8"	13-15/16"	HORIZONTAL/ VERTICAL	8214280	4417668	(3C)EGVA2

ALL GAS VALVES/STRAINERS
PROPER CLEARANCE MUST BE PROVIDED IN ORDER TO SERVICE THE STRAINERS A MINIMUM OF 4" CLEARANCE DISTANCE MUST BE PROVIDED AT THE BASE OF THE STRAINER CUSTOMER MUST VERIFY BTU CONSUMPTION AS WELL AS PRESSURE RATING SPECIFIC GRAVITY OF NATURAL GAS = 0.64, SPECIFIC GRAVITY OF LP = 1.52.

CALCULATIONS
TO CALCULATE GAS FLOW FOR OTHER THAN 1 IN.W.C. PRESSURE DROP
NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP) X NEW PRESSURE DROP$^{0.5}$
TO CALCULATE GAS FLOW FOR OTHER THAN 0.64 SPECIFIC GRAVITY
NEW BTU/HR = (BTU/HR AT 0.64) X (0.64 / NEW SPECIFIC GRAVITY)$^{0.5}$.

VERIFY VERIFY GAS VALVE SIZE REQUIRED





LEGEND – FIRE CABINET TANK SYSTEM

1 4 GALLON TANK.
2 PRIMARY ACTUATOR RELEASE.
3 SECONDARY ACTUATOR RELEASE.
4 PRESSURE SUPERVISION SWITCH.
5 PRIMARY HOSE ASSEMBLY.
6 SECONDARY HOSE ASSEMBLY.
7 REMOTE MANUAL ACTUATION DEVICE.

JOB #: 6836878.
JOB NAME: VILLAGE GREEN – PHASE II_HOODS.

SYSTEM SIZE: TANK-SP-1 WITH REMOTE TANK-SP-4 DESIGN FP: 82. MAXIMUM FP: 100.
HOOD # 1 11' 9.00" LONG x 60" WIDE x 24" HIGH.
RISER # 1 SIZE: 10" x 28".
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.
HOOD # 2 11' 9.00" LONG x 60" WIDE x 24" HIGH.
RISER # 1 SIZE: 10" x 28".
HOOD # 2 METAL BLOW-OFF CAPS INCLUDED.

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

NOTES
- FIELD PIPE DROPS AS SHOWN
  PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.

- OL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS

INCLUDES: FIELD INSTALLATION AND HOOKUP DURING NORMAL BUSINESS HOURS BY CERTIFIED INSTALLERS ONLY IN THE LOCATION NOTED ABOVE. TWO SITE VISITS ONLY (ONE VISIT TO SET PULL STATION & SYSTEM HOOKUP AND ONE VISIT FOR ONE TEST; ADDITIONAL VISITS WILL RESULT IN ADDITIONAL CHARGES). ONE MECHANICAL OR ELECTRICAL GAS VALVE PER SYSTEM AT A MAXIMUM SIZE OF 2", PERMIT, AND SYSTEM TEST.
EXCLUDES: UNION LABOR & PREVAILING WAGE (LABOR & WAGES WILL BE ADDED IF APPLICABLE), GAS VALVE INSTALLATION, ELECTRICAL HOOKUP AND CONNECTIONS, HANGING OF FIRE CABINET, SHUNT TRIP, HANDHELD EXTINGUISHER(S), ON-SITE RE-PIPING DUE TO EQUIPMENT LAYOUT CHANGES.

REVISIONS

DESCRIPTION	DATE:
△	
△	
△	
△	

CAPTIVEAIRE
Chicago Foodservice Division
1120 Charleston Drive, St. Charles, IL. 60174 PHONE: (630) 377 - 2611 FAX: 9195168738 EMAIL: repl56@captiveaire.com
www.captiveaire.com

Village Green - Phase II_Hoods
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DATE: 6/20/2024
DWG.#: 6836878
DRAWN BY: WEM
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 2

TRIA ARCHITECTURE

KITCHEN CONSULTANT: edge associates inc. food service design — 106 W WILSON STREET, SUITE 2A, BATAVIA, ILLINOIS 60510 (P) 855.362.4422
CIVIL CONSULTANT: HRGreen — 33 N. LASALLE ST., 2700 FLOOR, CHICAGO, ILLINOIS 60606 (P) 800.728.7805
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VILLAGE OF HOFFMAN ESTATES
VILLAGE GREEN CONCESSIONS
5510 PRAIRE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER: 24-002
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ISSUED FOR BID & PERMIT: 09/05/24

REVISION	DATE

FOOD SERVICE EXHAUST
HOOD SHEET 2

FS.6

ELECTRICAL PACKAGE – JOB#6836878

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		FAN TAG	TYPE	Φ	HP	VOLT	FLA
1	ECP-1	DCV-1111	UTILITY CABINET LEFT	UTILITY CABINET LEFT	1 LIGHT	SMART CONTROLS DCV	EF-1	EXHAUST	3	5.000	460	6.9
				HOOD # 1	1 FAN		MUA-1	SUPPLY	3	7.500	460	9.6

CASlink Monitor and Control

- ***Hood control panel to support communications to cloud-based Building Management System.***
- ***Hood Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list.***
- ***Hood Control Panel to allow cloud-based Building Management System to control all control points outlined as CONTROL in the points list.***
- ***Hood Control Panel to allow cloud-based Building Management System to implement SYSTEM ECONOMIZER control strategies for fully integrated Building Management.***

MONITORING AND CONTROL POINTS LIST

DCV Packages	Function
Room Temperature	MONITOR
Duct Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR
Fan Speed	MONITOR
Fan Amperage	MONITOR
Fan Power	MONITOR
VFD Faults	MONITOR
Controller Faults	MONITOR
Fan Faults	MONITOR
Fan Status	MONITOR
PCU Faults	MONITOR
PCU Filter Clog Percentages	MONITOR
Fire Condition	MONITOR
CORE Fire System	MONITOR
PCU Faults	MONITOR
PCU Filter Clog Percentages	MONITOR
Fire Condition	MONITOR
CORE Fire System	MONITOR
Building Pressures	MONITOR
Fans Button(s)	MONITOR & CONTROL
Lights Button(s)	MONITOR & CONTROL
Wash Button	MONITOR & CONTROL

SC Packages	Function
Room Temperature(s)	MONITOR
Duct Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR
Controller Faults	MONITOR
Fan Faults	MONITOR
Fan Status	MONITOR
PCU Faults	MONITOR
PCU Filter Clog Percentages	MONITOR
Fire Condition	MONITOR
CORE Fire System	MONITOR
Building Pressures	MONITOR
Fans Button(s)	MONITOR & CONTROL
Lights Button(s)	MONITOR & CONTROL
Wash Button	MONITOR & CONTROL

JOB NO 6836878 | MODEL NUMBER DCV-1111 | JOB NAME Village Green – Phase II_Hood.. | DRAWN BY | DATE 6/20/2024 | SCHEMATIC TYPE INSTALL | DRG NO ECP #1-1

DESCRIPTION OF OPERATION: Network Control Variations, or control for 1 & 2 Exhaust Fan, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Fire System #1 TANK FS = 42 / Remote = 46/48/49/50 (25). 1 Hood MUA Application for use with VFD's. Heat Output/Fire sensor shipped loose for field installation/verify distance between VFD and Motor; additional cost could apply if distance exceeds 30 feet.

BREAKER PANEL TO PRIMARY CONTROL PANEL
Responsibility: Electrician

BREAKER SIZE SHOWN IS THE MAXIMUM ALLOWED

BREAKER PANEL TO ADDITIONAL CONTROL PANEL
Responsibility: Electrician

BREAKER SIZE SHOWN IS THE MAXIMUM ALLOWED

CONTROL PANEL TO FANS
Responsibility: Electrician

CONTROL PANEL TO FANS
Responsibility: Electrician

CONTROL PANEL TO ACCESSORY ITEMS
Responsibility: Electrician

CONTROL PANEL TO FIRE SYSTEM
Responsibility: ALARM CONTRACTOR

JOB NO 6836878 | MODEL NUMBER DCV-1111 | JOB NAME Village Green – Phase II_Hood.. | DRAWN BY | DATE 6/20/2024 | SCHEMATIC TYPE INSTALL | DRG NO ECP #1-2

DESCRIPTION OF OPERATION: Network Control Variations, or control for 1 & 2 Exhaust Fan, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Fire System #1 TANK FS = 42 / Remote = 46/48/49/50 (25). 1 Hood MUA Application for use with VFD's. Heat Output/Fire sensor shipped loose for field installation/verify distance between VFD and Motor; additional cost could apply if distance exceeds 30 feet.

CONTROL PANEL TO FIRE SYSTEM
Responsibility: CERTIFIED INSTALLER

JOB NO 6836878 | MODEL NUMBER DCV-1111 | JOB NAME Village Green – Phase II_Hood.. | DRAWN BY | DATE 6/20/2024 | SCHEMATIC TYPE INSTALL | DRG NO ECP #1-3

DESCRIPTION OF OPERATION: Fire System #1 TANK FS = 42 / Remote = 46/48/49/50 (25).

TANK PROTECTION ELECTRICAL DETAIL

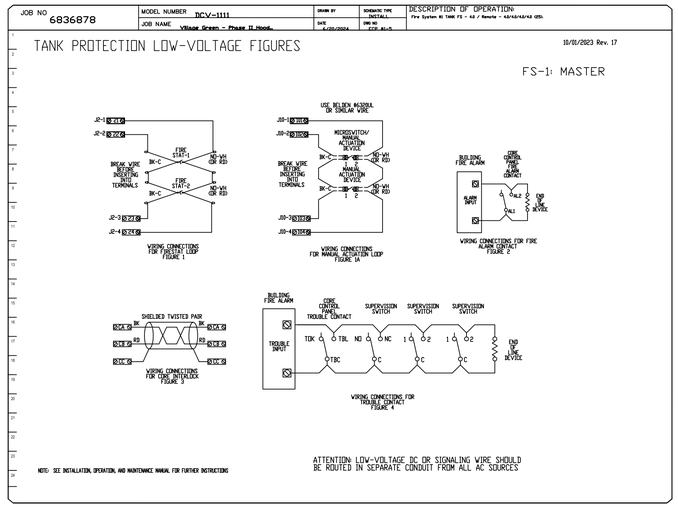
02/10/2021 Rev. 2

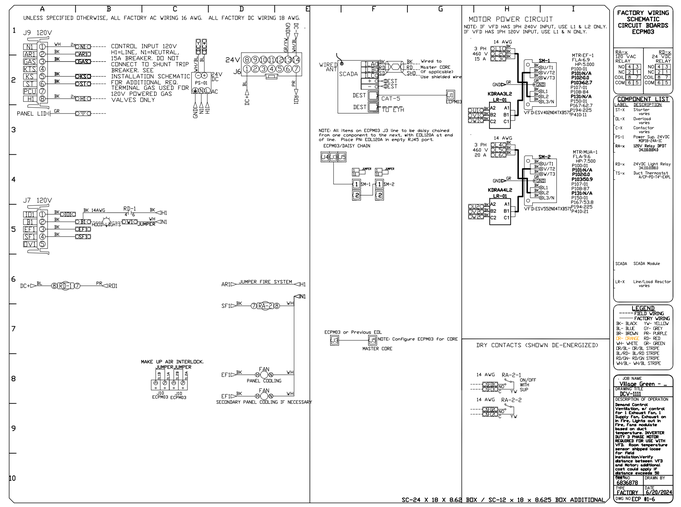
ELECTRICIAN
1. WIRE MAIN CONTROL PANEL PER INCLUDED SCHEMATIC
2. WIRE ALL FANS PER INCLUDED SCHEMATIC
3. WIRE SHUNT TRIP BREAKER (OPTIONAL)
4. WIRE GAS APPLIANCE KILL SWITCH, IF EQUIPPED (OPTIONAL)
5. WIRE GAS VALVE

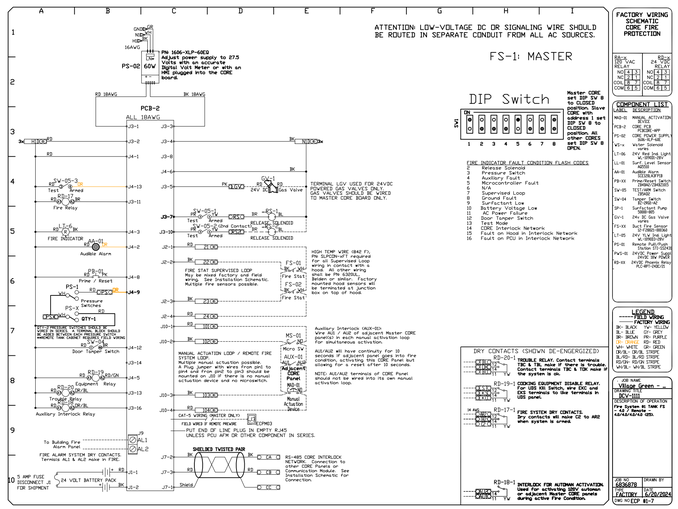
FS-1: MASTER

ELECTRICAL CONTRACTOR REQUIREMENT					
ITEM	CONNECTION IN PANEL	CONNECTION IN DEVICE	VOLTAGE	AMPERAGE	COMMENTS
SHUNT TRIP BREAKER (OPTIONAL)	ST & NI	BREAKER COIL (KI) & (K2)	120 VAC	< 4 AMPS	ST TO K1 ON SHUNT BREAKER COIL AND NEUTRAL TO K2 ON SHUNT TRIP BREAKER COIL
CONTROL PANEL POWER	HI & NI + GROUND	CIRCUIT BREAKER	120 VAC	15 AMPS	CONTROL PANEL POWER MUST NOT BE RUN THROUGH SHUNT TRIP BREAKER
UDS APPLIANCE KILL SWITCH (OPTIONAL)	KTI & NI	KTI & NI	120 VAC	< 4 AMPS	KILL SWITCH TERMINALS MUST BE IN SERIES WITH OTHER KILL SWITCHES
REMOTE 120VAC ANSUL AUTOMAN (OPTIONAL)	AUI, AU2	SOLENOID	120 VAC	< 6 AMPS	120V TO AU1, AU2 TO ANSUL ELECTRIC AUTOMAN, ANSUL SOLENOID TO NEUTRAL
GAS VALVE	120 V NEW GP 24 VDC? SEE 6 NI OF 120 VAC?	RED/RED/GREEN	24 VDC OR 120 VAC	< 1.8 AMPS	IF 24 VDC = 2 WIRES 1 GROUND, NOT TO BE 120 V TO BE, AND GREEN TO GROUND IF 120 VAC = 2 WIRES 1 GROUND (AS IT SEE, NI TO BE RED AND GREEN TO GROUND

CONTROL PANEL POWER
-2 WIRES & GROUND
-120 VAC IF ANY DEVICES
-NEUTRAL TO K2 AND GROUND
-POWER MUST NOT BE DERIVED FROM SHUNT TRIP BREAKER
SHUNT TRIP BREAKER (OPTIONAL)
-2 WIRES FROM SHUNT BREAKER
-NEUTRAL TO K2 ON SHUNT TRIP BREAKER
EXHAUST HOOD
GAS VALVE POWER
-2 WIRES & GROUND
-24 VDC OR 120 VAC & NEUTRAL & NEUTRAL & NEUTRAL

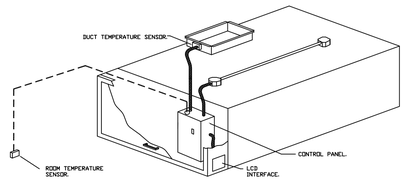






DEMAND CONTROL VENTILATION HOOD CONTROL PANEL SPECIFICATIONS:

- CONTROLS SHALL BE LISTED BY ETL (UL 508A) AND SHALL COMPLY WITH DEMAND VENTILATION SYSTEM TURNDOWN REQUIREMENTS OUTLINED IN IECC 403.7.5 (2021).
- THE CONTROL ENCLOSURE SHALL BE NEMA 1 RATED AND LISTED FOR INSTALLATION INSIDE OF THE EXHAUST HOOD UTILITY CABINET. THE CONTROL ENCLOSURE MAY BE CONSTRUCTED OF STAINLESS STEEL OR PAINTED STEEL.
- TEMPERATURE PROBE(S) LOCATED IN THE EXHAUST DUCT RISER(S) SHALL BE CONSTRUCTED OF STAINLESS STEEL.
- A DIGITAL CONTROLLER SHALL BE PROVIDED TO ACTIVATE THE HOOD EXHAUST FANS DYNAMICALLY BASED ON A FIXED DIFFERENTIAL BETWEEN THE AMBIENT AND DUCT TEMPERATURES SENSORS. THIS FUNCTION SHALL MEET THE REQUIREMENTS OF IMC 507.1.1.
- A DIGITAL CONTROLLER SHALL PROVIDE ADJUSTABLE HYSTERESIS SETTINGS TO PREVENT CYCLING OF THE FANS AFTER THE COOKING APPLIANCES HAVE BEEN TURNED OFF AND/OR THE HEAT IN THE EXHAUST SYSTEM IS REDUCED.
- A DIGITAL CONTROLLER SHALL PROVIDE AN ADJUSTABLE MINIMUM FAN RUN-TIME SETTING TO PREVENT FAN CYCLING.
- VARIABLE FREQUENCY DRIVES (VFDS) SHALL BE PROVIDED FOR FANS AS REQUIRED. THE DIGITAL CONTROLLER SHALL MODULATE THE VFDS BETWEEN A MINIMUM SETPOINT AND A MAXIMUM SETPOINT ON DEMAND. THE DUCT TEMPERATURE SENSOR INPUT(S) TO THE DIGITAL CONTROLLER SHALL BE USED TO CALCULATE THE SPEED REFERENCE SIGNAL.
- THE VFD SPEED RANGE OF OPERATION SHALL BE FROM 0% TO 100% FOR THE SYSTEM, WITH THE ACTUAL MINIMUM SPEED SET AS REQUIRED TO MEET MINIMUM VENTILATION REQUIREMENTS.
- AN INTERNAL ALGORITHM TO THE DIGITAL CONTROLLER SHALL MODULATE SUPPLY FAN VFD SPEED PROPORTIONAL TO ALL EXHAUST FANS THAT ARE LOCATED IN THE SAME FAN GROUP AS THE SUPPLY FAN.
- THE SYSTEM SHALL OPERATE IN PREP MODE DURING LIGHT COOKING LOAD OR COOL DOWN MODE WHEN SUFFICIENT HEAT REMAINS UNDERNEATH THE HOOD SYSTEM AFTER COOKING OPERATIONS HAVE COMPLETED. OPERATION DURING EITHER OF THESE PERIODS WILL DISABLE THE SUPPLY FANS AND PROVIDE AN EXHAUST FAN SPEED THAT IS EQUAL TO THE MINIMUM VENTILATION REQUIREMENT.
- A DIGITAL CONTROLLER SHALL DISABLE THE SUPPLY FAN(S), ACTIVATE THE EXHAUST FAN(S), ACTIVATE THE APPLIANCE SHUNT TRIP, AND DISABLE AN ELECTRIC GAS VALVE AUTOMATICALLY WHEN FIRE CONDITION IS DETECTED IN A COVERED HOOD.
- A DIGITAL CONTROLLER SHALL ALLOW FOR EXTERNAL BMS FAN CONTROL VIA DRY CONTACT (EXTERNAL CONTROL SHALL NOT OVERRIDE FAN OPERATION LOGIC AS REQUIRED BY CODE).
- AN LCD INTERFACE SHALL BE PROVIDED WITH THE FOLLOWING FEATURES:
  A. ON/OFF PUSH BUTTON FAN & LIGHT SWITCH ACTIVATION.
  B. INTEGRATED GAS VALVE RESET FOR ELECTRONIC GAS VALVES (NO RESET RELAY REQUIRED).
  C. VFD FAULT DISPLAY WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  D. DUCT TEMPERATURE SENSOR FAILURE DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  E. MIS-WIRED DUCT TEMPERATURE SENSOR DETECTION WITH AUDIBLE & VISUAL ALARM NOTIFICATION.
  F. A SINGLE LOW VOLTAGE CAT-5 RJ45 WIRING CONNECTION.
  G. AN ENERGY SAVINGS INDICATOR THAT UTILIZES MEASURED KWH FROM THE VFDS.



TYPICAL HOOD CONTROL PANEL INSTALLATION

SEQUENCE OF OPERATIONS:

THE HOOD CONTROL PANEL IS CAPABLE OF OPERATING IN ONE OR MORE OF THE FOLLOWING STATES AT ANY GIVEN TIME:

- AUTOMATIC: THE SYSTEM OPERATES BASED ON THE DIFFERENTIAL BETWEEN ROOM TEMPERATURE AND THE TEMPERATURE AT THE HOOD CAVITY OR EXHAUST DUCT COLLAR. FANS ACTIVATE AT A CONFIGURABLE TEMPERATURE DIFFERENTIAL THRESHOLD. DEPENDING ON THE JOB CONFIGURATION EACH FAN ZONE CAN BE CONFIGURED AS STATIC OR DYNAMIC. THESE TERMS REFER TO WHETHER A VARIABLE MOTOR (SUCH AS EC MOTORS OR VFD DRIVEN MOTORS) MODULATE WITH TEMPERATURE. IF THE PANEL IS EQUIPPED WITH VARIABLE SPEED FANS AND THE ZONE IS DEFINED AS "DYNAMIC", THESE WILL MODULATE WITHIN A USER-DEFINED RANGE BASED ON THE TEMPERATURE DIFFERENTIAL. PANELS EQUIPPED WITH VARIABLE SPEED FANS AND A FAN ZONE DEFINED AS "STATIC", FANS WILL RUN AT A SET SPEED CALCULATED FOR THE DRIVE. DEMAND CONTROL VENTILATION SYSTEMS ARE CAPABLE OF MODULATING EXHAUST AND MAKE UP AIR FAN SPEEDS PER THE REQUIREMENTS OUTLINED IN IECC 403.7.5 (2021).
- MANUAL: THE SYSTEM OPERATES BASED ON HUMAN INPUT FROM AN HMI.
- SCHEDULE: A WEEKLY SCHEDULE CAN BE SET TO RUN FANS FOR A SPECIFIED PERIOD THROUGHOUT THE DAY. THERE ARE THREE OCCUPIED TIMES PER DAY TO ALLOW FOR THE USER TO SET UP A TIME THAT IS SUITABLE TO THEIR NEEDS. ANY TIME THAT IS WITHIN THE DEFINED OCCUPIED TIME, THE SYSTEM WILL RUN AT MODULATION MODE AND FOLLOW THE FAN PROCEDURE ALGORITHM BASED ON TEMPERATURE DURING THIS TIME. DURING UNOCCUPIED TIME, THE SYSTEM WILL HAVE AN EXTRA OFFSET TO PREVENT UNINTENDED ACTIVATION OF THE SYSTEM DURING A TIME WHERE THE SYSTEM IS NOT BEING OCCUPIED.
- OTHER: THE SYSTEM OPERATES BASED ON THE INPUT FROM AN EXTERNAL SOURCE (DDC, BMS OR HARD-WIRED INTERLOCK).
- FIRE: UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM, THE EXHAUST FAN WILL COME ON OR CONTINUE TO TO RUN. THE HOOD MAKEUP AIR WILL SHUTDOWN, AND A SIGNAL WILL BE SENT FOR ACTIVATING THE SHUNT TRIP BREAKER PROVIDED BY THE ELECTRICIAN. FUEL GAS WILL SHUT OFF VIA A MECHANICAL/ELECTRICAL GAS VALVE ACTUATED BY THE HOOD FIRE SUPPRESSION SYSTEM.

SYSTEM DESIGN VERIFICATION (SDV)

IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK. SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP CHARGES.

DURING THE SDV, CAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER. SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED. THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER DISCREPANCIES.

REVISIONS

	DESCRIPTION	DATE:
1		
2		
3		
4		
5		

CAPTIVE-AIRE
Chicago Foodservice Division
1120 Charleston Drive, St. Charles, IL. 60174 PHONE: (630) 377 - 2611 FAX: 9195169738 EMAIL: regs56@captiveaire.com
www.captiveaire.com

TRIA ARCHITECTURE

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CIVIL CONSULTANT: HRGreen — 5711 S. ARCHER AVE. 2ND FLOOR, CHICAGO, ILLINOIS 60638 — (P) 800.728.7805

LANDSCAPE CONSULTANT: JSD — 1400 E. TOUHY AVENUE, SUITE 215, DES PLAINES, ILLINOIS 60018 — (P) 312.644.3379

STRUCTURAL CONSULTANT: Larson Engineering, Inc. — 1488 BOND STREET, SUITE 100, NAPERVILLE, ILLINOIS 60563-8503 — (P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

Village Green - Phase II_Hoods
5510 Prairie Stone Parkway,
Hoffman Estates, IL, 60192

DATE: 6/20/2024

DWG.#: 6836878

DRAWN BY: WEM

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

MASTER DRAWING

SHEET NO. 4

PROJECT NUMBER:	24-002	REVISION	DATE
PROJECT MANAGER:	PSN		
DRAWN BY:	MBP		

ISSUED FOR BID & PERMIT: 09/05/24

FOOD SERVICE EXHAUST HOOD SHEET 4

FS.8

FOR QUESTIONS, CALL THE
Chicago Foodservice Division
REGION 5S
PHONE: (630) 377 - 2611
EMAIL: reg5S@captiveaire.com

EXHAUST FAN INFORMATION – JOB#6868523

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	EF-1	1	DU240HFA	CAPTIVEAIRE	5876	1.650	1049	ODP,PREMIUM	5.000	3.3290	3	460	6.9	1335 FPM	358	23

MUA FAN INFORMATION – JOB#6868523

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MOCP	WEIGHT (LBS)	SONES
2	MUA-1	1	A3-D.500-24D	24MF-3-MOD	A3-D.500	3500	5800	0.375	1246	ODP,PREMIUM	7.500	3.7570	3	460	9.6	12A	20A	843	10.8

GAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO	TAG	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY(%)
2	MUA-1	484251	445511	74°F	7 IN. W.C. - 14 IN. W.C.	NATURAL	92

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	EF-1	1	GREASE BOX
		1	FAN BASE CERAMIC SEAL - DU/DR240HFA - INSTALLED AT PLANT - FOR GREASE DUCTS
		1	LOAD REACTOR MOUNTED IN FAN
		1	2 YEAR PARTS WARRANTY
2	MUA-1	1	SIZE 3 TEMPERED COMMERCIAL DOWN DISCHARGE FOR DIRECT DRIVE AHUS
		1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC
		1	BUTTERFLY MOD VALVE OPTION FOR MOD SIZE 3 (1" MOD VALVE)
		1	SHIP LOOSE GAS STRAINER 1"
		1	CASLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED
		1	MOTORIZED BACKDRAFT DAMPER FOR A3-D HOUSING - MEETS AMCA CLASS 1A RATING
		1	SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) - THREE PHASE ONLY
		1	LOAD REACTOR MOUNTED IN FAN
		1	2 YEAR PARTS WARRANTY

FAN ACCESSORIES

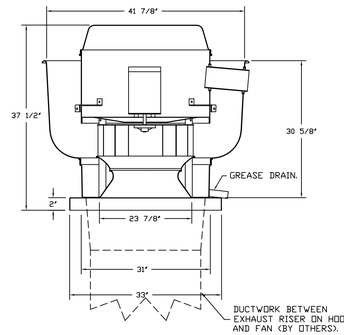
FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	EF-1	YES						
2	MUA-1						YES	

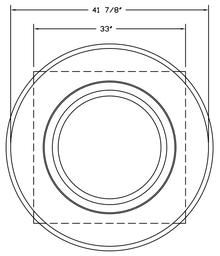
CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	EF-1	48 LBS	CURB	31.500"W X 31.500"L X 24.000"H VENTED HINGED.
2	# 2	MUA-1	84 LBS	CURB	35.000"W X 84.000"L X 20.000"H INSULATED.

HMI SCHEDULE				
UNIT NUMBER	HMI #	HMI LOCATION	TEMP AVERAGING	MODBUS ADDRESS
FAN #2	HMI #1 - UNIT HMI # 1	MOUNTED IN UNIT	NOT AVERAGED	55

FAN #1 DU240HFA - EXHAUST FAN (EF-1)





TOP VIEW

FEATURES:

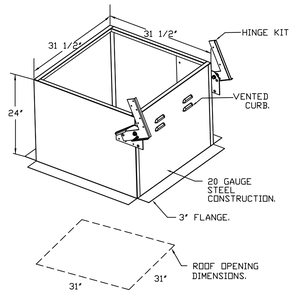
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

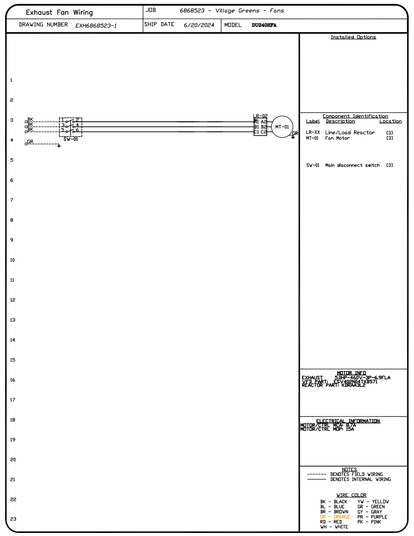
NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

- GREASE BOX.
- FAN BASE CERAMIC SEAL - DU/DR240HFA - INSTALLED AT PLANT - FOR GREASE DUCTS.
- LOAD REACTOR MOUNTED IN FAN.
- 2 YEAR PARTS WARRANTY.





REVISIONS

DESCRIPTION	DATE

CAPTIVEAIRE
Chicago Foodservice Division
1720 Charleston Drive, St. Charles, IL, 60174 PHONE: (630) 377 - 2611 FAX: 919516187138 EMAIL: reg5S@captiveaire.com
www.captiveaire.com

Village Greens - Fans
5510 Prairie Stone Parkway,
Hoffman Estates, IL, 60192

DATE: 6/20/2024

DWG.#: 6868523

DRAWN BY: WEM

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

MASTER DRAWING

SHEET NO. 1

TRIA ARCHITECTURE

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VILLAGE OF HOFFMAN ESTATES
VILLAGE GREEN CONCESSIONS
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER:	24-002
PROJECT MANAGER:	PSN
DRAWN BY:	MBP

REVISION	DATE

ISSUED FOR BID & PERMIT: 06/05/24

FOOD SERVICE EXHAUST
HOOD SHEET 5

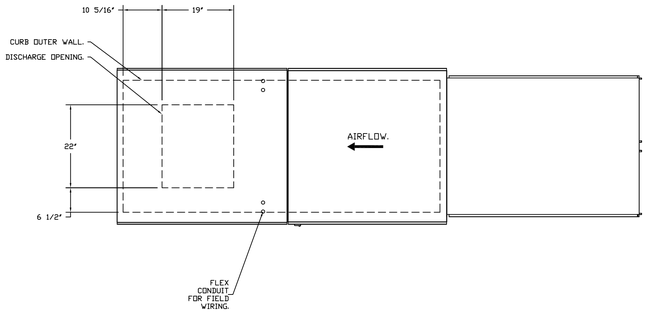
FS.9

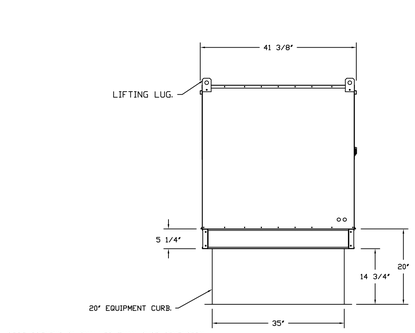
FAN #2 A3-D.500-24D - HEATER (MUA-1)
1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 24" MIXED FLOW DIRECT DRIVE FAN AND 12" BURNER.
2. INTAKE HOOD WITH EZ FILTERS.
3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.
4. DOWN DISCHARGE CONSTRUCTION FOR SIZE 3 DIRECT DRIVE AHUS.
5. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE.
6. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC, 2.5" DIAMETER, 1/4" THREAD SIZE.
7. BUTTERFLY MOD VALVE OPTION FOR MOD SIZE 3 (1" MOD VALVE).
8. SHIP LOOSE GAS STRAINER. TO BE INSTALLED UPSTREAM OF UNIT CONNECTION. 1" CONNECTION.
9. CASLINK BUILDING MONITORING SYSTEM COMMUNICATIONS MODULE. REQUIRES INTERNET & FIELD WIRED ETHERNET CONNECTION OR 3G CELLULAR SERVICE. INCLUDES REV 3 COMM MODULE, RJ45 TO MODBUS CONVERTER, 3 FT CAT5 CABLE, AND 1 FT OF SHIELDED TWISTED PAIR.
10. MOTORIZED BACK DRAFT DAMPER 30" X 30" FOR SIZE 3 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, NF3U.3-S ACTUATOR INCLUDED.
11. SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PREVIRE PANEL OR WITH DCV PACKAGE. PROVIDES SEPARATE 120VAC INPUT TO SUPPLY FAN. THIS 120V SIGNAL MUST BE RUN BY ELECTRICIAN FROM DCV TO MUA SWITCH.
12. MOUNT LOAD REACTOR IN FAN.
13. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER SECTION).
14. 2 YEAR PARTS WARRANTY.

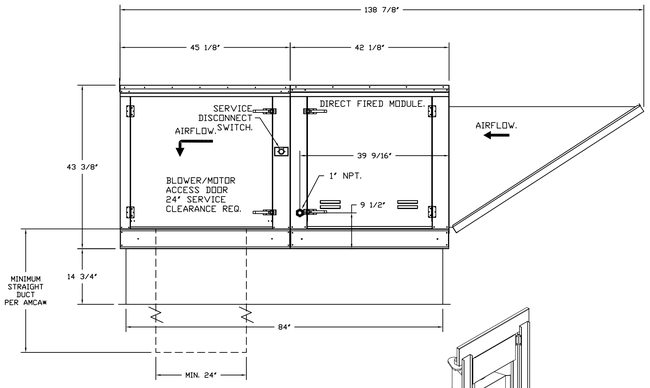
*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 24" x 24".

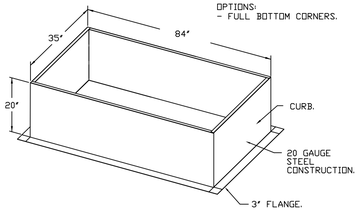
SUPPLY SIDE HEATER INFORMATION:

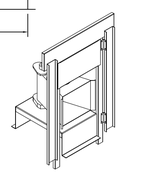
WINTER TEMPERATURE = 1°F. TEMP. RISE = 74°F.
BTus CALCULATED OFF ACTUAL AIR DENSITY.
OUTPUT BTUs AT ALTITUDE OF 0.0 FT. = 498532.
INPUT BTUs AT ALTITUDE OF 0.0 FT. = 498404.
OUTPUT BTUs AT ALTITUDE OF 795 FT. = 445511.
INPUT BTUs AT ALTITUDE OF 795 FT. = 484251.











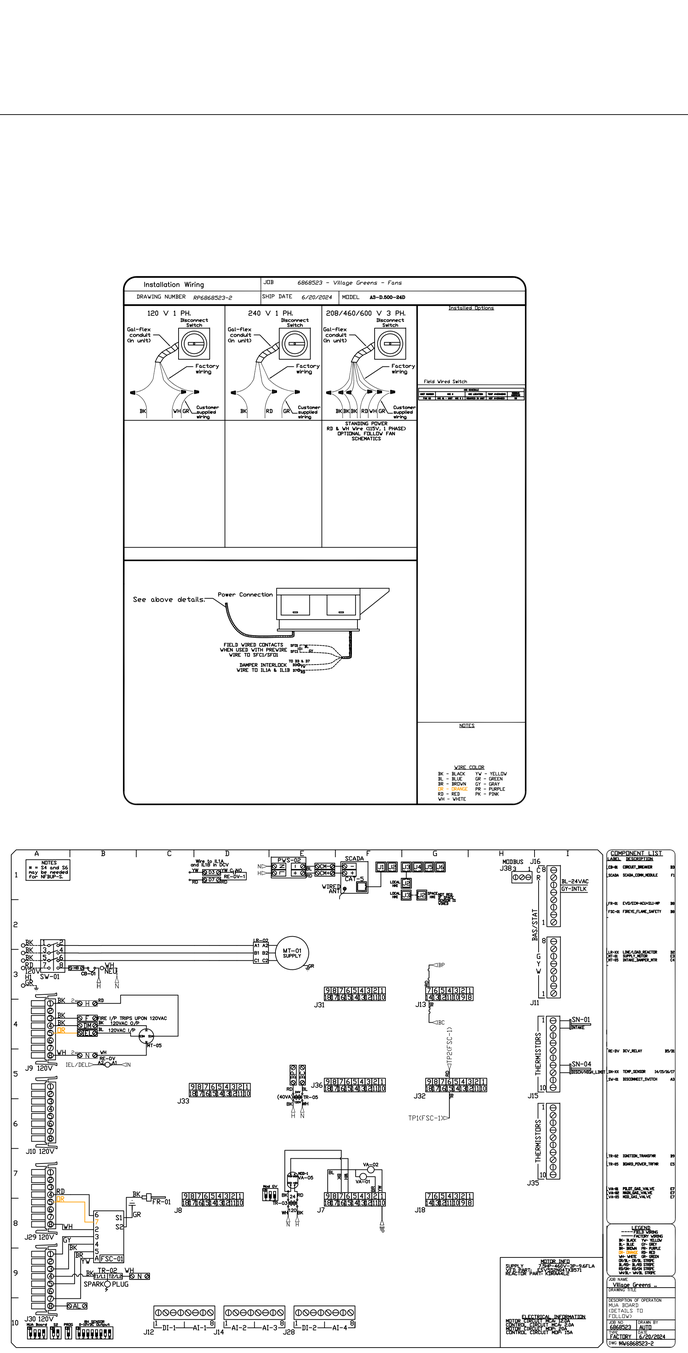
DIRECT FIRED (DF) PROFILE PLATE ASSEMBLY

DIRECT FIRED PROFILE PLATE SPECIFICATIONS:
DESCRIPTION:
DIRECT FIRED BURNERS SHALL HAVE PATENTED (US PATENT NO. US6629931B2), SELF-ADJUSTING PROFILE PLATES DESIGNED TO ENSURE PROPER AIR VELOCITY AND PRESSURE DROP ACROSS THE BURNER. PROFILE PLATES SHALL BE CONSTRUCTED OF 20 GAUGE GALVANIZED STEEL CLOCKWISE TOWARD THE BLOWER TO A PLATED TOP SHAFT AND LOWER BEARING SCREW. PROFILE PLATES SHALL BE ADJUSTABLE TO 7 POSITIONS. UNITS SHALL BE CONFIGURED WITH THE BLOWER MOUNTED DOWNSTREAM OF THE BURNER. THIS ARRANGEMENT WILL ENSURE A CONSISTENT AIRFLOW, REGARDLESS OF INLET AIR TEMPERATURE.

APPLICATION:
SPRING-LOADED BURNER PROFILE PLATES ARE ENGINEERED TO AUTOMATICALLY REACT TO THE MOMENTUM OF A FRESH AIR STREAM, WITHOUT THE NEED FOR ANY MOTORS OR ACTUATORS TO MECHANICALLY ADJUST THEM. WITH THIS FEATURE, ALL DF UNITS ARE DESIGNED FOR DEMAND CONTROL VENTILATION (DCV) REQUIREMENTS.

CERTIFICATIONS:
ALL PROFILE PLATE ASSEMBLIES SHALL BE INCLUDED IN THE DF UNIT'S ETL LISTING AND COMPLY WITH COMBINED SAFETY STANDARDS ANSI Z83.4 AND CSA 3.7 (NON-RECIRCULATING DF HEATERS) AND ANSI Z83.18 (RECIRCULATING DF HEATERS).

GENERAL CONSTRUCTION:
-PROFILE PLATES SHALL BE FORMED FROM 0.90 GALVANIZED STEEL.
-PROFILE PLATES SHALL VARY IN SIZE PER UNIT.
-PROFILE PLATES SHALL BE MOUNTED ALONG THE SAME PLANE AS THE DISCHARGE OF THE BURNER.
-SECTION SHALL INCORPORATE PROPERLY TORQUED, PERMANENTLY MOUNTED SPRING HINGES.
-SPRING HINGES SHALL BE MADE FROM PLATED STEEL.



CAPTIVE-AIRE
Chicago Foodservice Division
1120 Charleston Drive, St. Charles, IL 60174 PHONE: (630) 377 - 2611 FAX: 9195168738 EMAIL: mgs56@captiveaire.com
www.captiveaire.com

REVISIONS	
DESCRIPTION	DATE:

Village Greens - Fans
5510 Prairie Stone Parkway,
Hoffman Estates, IL, 60192

DATE: 6/20/2024

DWG.#: 6868523

DRAWN BY: WEM

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

MASTER DRAWING

SHEET NO. 2

TRIA ARCHITECTURE
KITCHEN CONSULTANT: edge associates inc. food service design — 108 W WILSON STREET, SUITE 2L, BATAVIA, ILLINOIS 60510 (P) 855.962.4422
CIVIL CONSULTANT: HRGreen — 311 S WACKER DR., 22ND FLOOR, CHICAGO, ILLINOIS 60606 (P) 800.728.7805
LANDSCAPE CONSULTANT: JSD — 1400 E TOUHY AVENUE, SUITE 215, DES PLAINES, ILLINOIS 60018 (P) 312.644.3379
STRUCTURAL CONSULTANT: Larson Engineering, Inc. — 1488 BOND STREET, SUITE 100, WATERVILLE ILLINOIS 60563-8503 (P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREENS CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

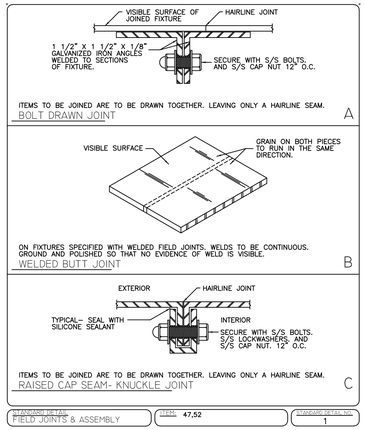
PROJECT NUMBER:	24-002
PROJECT MANAGER:	PSN
DRAWN BY:	MBP

REVISION	DATE

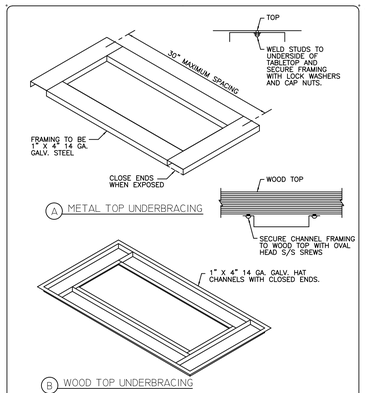
ISSUED FOR BID & PERMIT: 06/05/24

FOOD SERVICE EXHAUST
HOOD SHEET 6

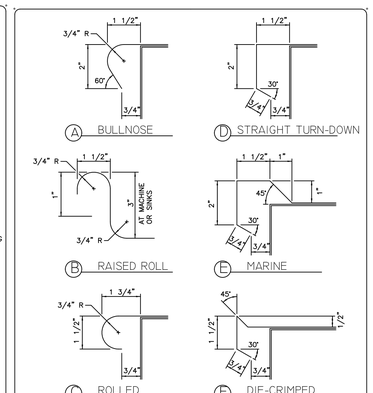
FS.10



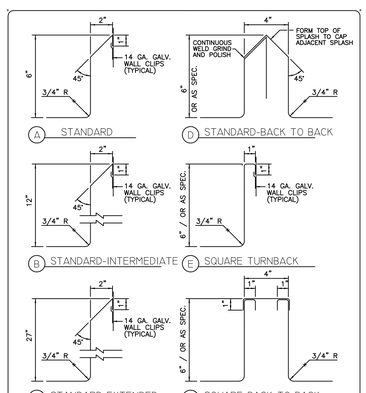
STANDARD DETAIL: FIELD JOINTS & ASSEMBLY | ITEM: 47,52 | STANDARD DETAIL NO.: 1



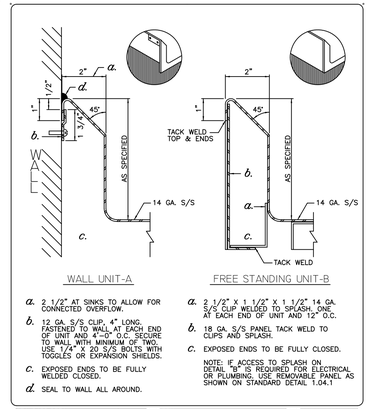
STANDARD DETAIL: TABLE TOP UNDERBRACING | ITEM: 47,52 | STANDARD DETAIL NO.: 2



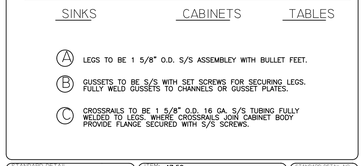
STANDARD DETAIL: EDGES | ITEM: 47,52 | STANDARD DETAIL NO.: 3



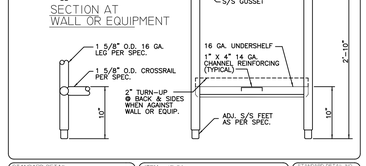
STANDARD DETAIL: RISERS | ITEM: 52 | STANDARD DETAIL NO.: 4



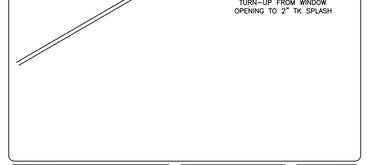
STANDARD DETAIL: BACKSPLASHES | ITEM: 52 | STANDARD DETAIL NO.: 5



STANDARD DETAIL: LEGS & CROSSBRACING | ITEM: 47,52 | STANDARD DETAIL NO.: 6



STANDARD DETAIL: OPEN BASE ST. STL. TABLE | ITEM: 47,52 | STANDARD DETAIL NO.: 7



STANDARD DETAIL: DISHTABLE AT PASS THRU WINDOW | ITEM: 47,52 | STANDARD DETAIL NO.: 8

TRIA ARCHITECTURE

KITCHEN CONSULTANT: edge associates inc. food service design — 106 W WILSON STREET, SUITE 2L, BRAVA, ILLINOIS 60516 — (P) 855.962.4422

CIVIL CONSULTANT: HRGreen — 5151 N. HARLEM AVE., 2ND FLOOR, CHICAGO, ILLINOIS 60656 — (P) 800.728.7805

LANDSCAPE CONSULTANT: JSD — 1400 E. TOUHY AVENUE, SUITE 215, DES PLAINES, ILLINOIS 60018 — (P) 312.644.3379

STRUCTURAL CONSULTANT: Larson Engineering, Inc. — 1488 BOND STREET, SUITE 100, WATERVILLE ILLINOIS 60563-6503 — (P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

DATE	REVISION	

PROJECT NUMBER: 24-002
PROJECT MANAGER: PSN
DRAWN BY: MBP

ISSUED FOR BID & PERMIT: 09/05/24

FOOD SERVICE DETAIL SHEET

FS.11

GENERAL STRUCTURAL NOTES

BUILDING CODES USED FOR DESIGN

1. INTERNATIONAL BUILDING CODE, 2021 EDITION

DESIGN LOADS

1.	DESIGN LIVE LOADS:	
	PUBLIC AREAS	100 PSF
	ROOFS	20 PSF
2.	ROOF SNOW:	
	GROUND SNOW LOAD	25 PSF
	FLAT-ROOF SNOW LOAD	20 PSF***
	SNOW EXPOSURE FACTOR	1.0
	SNOW IMPORTANCE FACTOR	1.0
	THERMAL FACTOR	1.0
3.	WIND:	
	BASIC WIND SPEED	107 MPH
	WIND IMPORTANCE FACTOR	1.0
	WIND EXPOSURE	C
	INTERNAL PRESSURE COEFFICIENT	+/-0.18
	COMPONENTS & CLADDING	ANALYSIS PER ASCE 7-16 CH. 30
4.	SEISMIC:	
	RISK CATEGORY	II
	SEISMIC IMPORTANCE FACTOR, I_e	1.0
	USE GROUP	
	S_S	0.122
	S_1	0.062
	SITE CLASS	D-DEFAULT
	S_{DS}	0.131
	S_{D1}	0.099
	SEISMIC DESIGN CATEGORY	B
	BASIC SEISMIC FORCE-RESISTING SYSTEM	LIGHT-FRAME (CFS) WALLS SHEATHED WITH WOOD STRUCTURAL PANELS & INTERMEDIATE REINFORCED MASONRY SHEAR WALLS
	DESIGN BASE SHEAR	7.4k, EACH WAY
	SEISMIC RESPONSE COEFFICIENT, C_S	0.037
	RESPONSE MODIFICATION COEFFICIENT, R	6.5/3.5
	ANAYSIS PROCEDURE	ELF

*** PLUS DRIFTING AND/OR SLIDING SNOW

NEW CONSTRUCTION

1. THE CONTRACTOR SHALL FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE DRAWINGS.
2. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE CONSTRUED TO APPLY AT ANY SIMILAR CONDITION ELSEWHERE ON THE JOB EXCEPT WHERE A DIFFERENT DETAIL OR SECTION IS SHOWN.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. WHERE DISCREPANCIES OCCUR, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ARCHITECT PRIOR TO CONSTRUCTION.
4. THE STEEL FRAMING COMPONENTS SHOWN RELY ON BUILDING COMPONENTS OTHER THAN STRUCTURAL STEEL FOR FINAL STRUCTURAL STABILITY (PREVIOUSLY REFERRED TO AS A NON-SELF-SUPPORTING STEEL FRAME BY THE AISC "CODE OF STANDARD PRACTICE"). THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND PROVISION OF ANY AND ALL TEMPORARY BRACING AND SHORING AGAINST WIND, ERECTION AND ALL CONSTRUCTION LOADS UNTIL ALL ELEMENTS, MEMBERS AND CONNECTIONS (FLOORS, ROOF, SHEAR WALLS, ETC.), AS SHOWN ON THE CONTRACT DOCUMENTS ARE COMPLETELY INSTALLED. THE STRUCTURAL MEMBERS SHOWN ON THE CONTRACT DOCUMENTS ARE DESIGNED FOR THE ANTICIPATED LOADS THAT THE STRUCTURE WILL BE SUBJECTED TO ONLY AFTER ALL STRUCTURAL ELEMENTS ARE IN PLACE AND FINAL CONNECTIONS ARE COMPLETE.
5. THE GENERAL CONTRACTOR SHALL VERIFY ALL OPENING SIZES, PAD SIZES AND LOCATIONS WITH THE RESPECTIVE CONTRACTORS.

EXCAVATION AND EARTHWORK

1. THE SOILS AND FOUNDATION ENGINEERING REPORT IS FOR INFORMATIONAL PURPOSES ONLY AND SHALL NOT BE CONSIDERED PART OF THE CONTRACT DOCUMENTS. FURTHERMORE, NO WARRANTY IS MADE BY THE OWNER WITH REGARD TO THE COMPLETENESS AND ACCURACY OF THE SUBSURFACE INVESTIGATION DATA, SOIL TEST DATA OR STATEMENTS AND INTERPRETATIONS GIVEN IN REPORT NO. 24G0236 PREPARED BY CONSTRUCTION & GEOTECHNICAL MATERIAL TESTING, INC ON 04-30-24.
2. WATER LEVELS INDICATED ON THE BORING LOGS MAY BE SUBJECT TO SEASONAL AND/OR ANNUAL VARIATIONS. A DEWATERING SYSTEM OF SUFFICIENT CAPACITY SHALL BE INSTALLED AND OPERATED TO MAINTAIN THE CONSTRUCTION AREA FREE OF WATER AT ALL TIMES.
3. THE BEARING VALUE OF THE SOIL WAS DETERMINED BY FIELD EXPLORATION AND LABORATORY ANALYSIS. THE FOUNDATION DESIGN IS BASED ON THE FOLLOWING NET ALLOWABLE BEARING PRESSURE(S):
   SPREAD FOOTINGS 2000 PSF
   WALL FOOTINGS 2000 PSF
4. ALL FOOTING EXCAVATIONS SHALL BE INSPECTED, PRIOR TO CONCRETE PLACEMENT, BY A SOILS ENGINEER TO VERIFY SUITABLE BEARING MATERIAL OF CAPACITY AS SPECIFIED.
5. NOTIFY THE OWNER'S REPRESENTATIVE WHEN ADDITIONAL EXCAVATION IS REQUIRED TO REACH SUITABLE BEARING MATERIAL.
6. THE SOILS ENGINEER SHALL CERTIFY IN WRITING THAT ALL FOUNDATIONS WERE PLACED ON SOIL WITH THE BEARING VALUE AS SPECIFIED.
7. WITHIN THE EXCAVATION AREA OF THE FOUNDATIONS, ALL VEGETATION, TOPSOIL, PREVIOUSLY PLACED FILL AND UNSUITABLE SOILS SHALL BE REMOVED. ALL FOOTINGS SHALL BEAR ON VIRGIN SOIL OR PROPERLY PLACED AND COMPACTED ENGINEERED FILL.
8. FOUNDATION DESIGN DOES NOT ACCOUNT FOR WINTER CONSTRUCTION. ANY UNENCLOSED/UNHEATED SPACES SHALL BE ADEQUATELY PROTECTED AGAINST FROST DURING WINTER CONSTRUCTION BY CONTRACTOR.

BACKFILLING

1. BOTH SIDES OF FOUNDATION WALLS FOR SLAB-ON-GRADE CONSTRUCTION SHALL BE BACKFILLED SIMULTANEOUSLY SO AS TO PREVENT OVERTURNING OR LATERAL MOVEMENT OF WALLS.
2. FOUNDATIONS SHALL BE BACKFILLED AS SOON AS PRACTICABLE SO AS TO LIMIT THE EFFECTS OF WATER INFILTRATION AND FROST HEAVE.
3. UNLESS NOTED OTHERWISE, INTERIOR FOUNDATIONS WERE NOT DESIGNED TO BEAR AT ELEVATIONS REQUIRED TO PROTECT AGAINST FROST HEAVE. IF WINTER CONSTRUCTION IS ANTICIPATED, CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR PROVIDING ADEQUATE MEASURES TO PROTECT AGAINST FROST HEAVE.

CONCRETE

1. ALL CONCRETE WORK INCLUDING FORMING, REINFORCING, MIXING, PLACING AND CURING SHALL BE IN ACCORDANCE WITH THE ACI MANUAL OF CONCRETE PRACTICE INCLUDING "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," ACI 318 AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE," ACI 301.
2. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGN: SUBMIT CONCRETE MIX DESIGN FOR EACH TYPE AND STRENGTH OF CONCRETE DETERMINED BY EITHER LABORATORY TRIAL MIX OR FIELD TEST DATA IN ACCORDANCE WITH ACI 211.1 AND ACI 301. SUBMIT MIX DESIGN AT LEAST 15 DAYS PRIOR TO FIRST POUR. ACQUIRE CEMENT FROM SAME SOURCE AND AGGREGATE FROM SAME SOURCE FOR ENTIRE PROJECT.
3. FOLLOW RECOMMENDATIONS OF ACI 305R WHEN CONCRETING DURING HOT WEATHER OR ACI 306R WHEN CONCRETING DURING COLD WEATHER.
4. ALL CONCRETE SHALL ATTAIN A MINIMUM ULTIMATE COMPRESSIVE STRENGTH AS SPECIFIED AT 28 DAYS. CONCRETE SHALL BE VIBRATED INTO FORMS WHILE PLACING, WITHOUT OVER-VIBRATING. REINFORCING SHALL BE PROTECTED BY CONCRETE OF THICKNESS AS FOLLOWS:
   FOOTINGS 3"
   PIERS 1 1/2" TO TIES
   EXPOSED EXTERIOR CONCRETE 2"
   SLAB ON GRADE t/3 FROM TOP
5. CONCRETE MATERIALS SHALL BE AS FOLLOWS;
   CEMENT PER ASTM C 150, NORMAL PORTLAND TYPE I OR PORTLAND LIMESTONE CEMENT (PLC) PER ASTM C595 TYPE IL EXCEPT AS NOTED. (EXCEPTION: PLC IS NOT PERMITTED IN STATES WITH DEPARTMENTS OF TRANSPORTATION THAT HAVE NOT APPROVED THE USE OF PLC). FINE AND COARSE AGGREGATES PER ASTM C 33. FLY ASH CLASS C OR F PER ASTM C 618. WATER SHALL BE CLEAN AND NOT DETRIMENTAL TO CONCRETE. ADMIXTURES OTHER THAN AIR ENTRAINMENT AND WATER REDUCING ARE NOT PERMITTED WITHOUT APPROVAL BY THE ARCHITECT AND ENGINEER. AIR ENTRAINMENT ADMIXTURE SHALL BE PER ASTM C 260 AND WATER REDUCER SHALL BE TYPE A PER ASTM C 494.
6. CONCRETE MIX DESIGN:
   CONCRETE FOR FOOTINGS AND FOUNDATIONS WALLS:
   A. COMPRESSIVE STRENGTH, WHEN TESTED IN ACCORDANCE WITH ASTM C 39/C 39M AT 28 DAYS: 4000 PSI.
   B. CONCRETE WEIGHT: NORMAL (144 LBS. PER CUBIC FOOT)
   C. FLY ASH CONTENT: MAXIMUM 15 PERCENT OF CEMENTITIOUS MATERIALS BY WEIGHT.
   D. CEMENT CONTENT: MINIMUM 611 LB PER CUBIC YARD.
   E. WATER-CEMENT RATIO: MAXIMUM 55 PERCENT BY WEIGHT.
   F. TOTAL AIR CONTENT: 3 PERCENT NATURALLY OCCURRING, PER ASTM C 173.
   G. MAXIMUM SLUMP: 3 INCHES, PLUS OR MINUS 1 INCH.
   H. MAXIMUM AGGREGATE SIZE: 1 INCH.
   I. WATER REDUCING AGENT REQUIRED.
   CONCRETE FOR SLABS ON GRADE:
   J. COMPRESSIVE STRENGTH, WHEN TESTED IN ACCORDANCE WITH ASTM C 39/C 39M AT 28 DAYS: 4000 PSI.
   K. CONCRETE WEIGHT: NORMAL (144 LBS. PER CUBIC FOOT)
   L. CEMENTITIOUS CONTENT: MAXIMUM 624 LB PER CUBIC YARD.,
   M. WATER-CEMENT RATIO: MAXIMUM 44 PERCENT BY WEIGHT.
   N. TOTAL AIR CONTENT: MAXIMUM 3 PERCENT NATURALLY OCCURRING, PER ASTM C 173.
   O. IF AIR ENTRAINMENT IS ADDED FOR WORKABILITY, WATER-CEMENT RATIO SHALL BE REDUCED TO 40 PERCENT BY WEIGHT.
   P. FLY ASH CONTENT: MAXIMUM 15 PERCENT OF CEMENTITIOUS MATERIALS BY WEIGHT.
   Q. MAXIMUM SLUMP: 3 INCHES PLUS OR MINUS 1 INCH.
   R. MAXIMUM AGGREGATE SIZE: 1-1/2 INCH. COMBINED AGGREGATE SHALL BE WELL GRADED AND SHALL CONTAIN SIZES UP TO AND INCLUDING 1-1/2 INCH.
   S. WATER REDUCING AGENT REQUIRED.
   T. 4 LB/CY MACRO-FIBER REINFORCEMENT.
7. PLACING CONCRETE:
   PLACE CONCRETE IN ACCORDANCE WITH ACI 304R. DO NOT ADD WATER TO CONCRETE DURING TRANSPORT, DELIVERY, AT PROJECT SITE, OR DURING PLACEMENT UNLESS APPROVED BY ARCHITECT. PLACE CONCRETE IN A CONTINUOUS OPERATION AND WITHOUT SEGREGATION. ENSURE REINFORCEMENT, INSERTS, WATERSTOPS, EMBEDDED PARTS, AND FORMED CONSTRUCTION JOINT DEVICES WILL NOT BE DISTURBED DURING CONCRETE PLACEMENT. SEPARATE SLABS ON GRADE FROM VERTICAL SURFACES WITH JOINT FILLER. SLABS ON GRADE SHALL BE PLACED IN CONTINUOUS STRIPS AS PER ACI RECOMMENDATIONS. THE MAXIMUM POUR AREA SHALL NOT EXCEED 3600 SQUARE FEET. ALLOW 24 HOURS TO ELAPSE BETWEEN THE PLACEMENT OF ADJACENT STRIPS. POUR IN ALTERNATING STRIP PATTERN SO THAT NO TWO ADJOINING SLABS ARE POURED THE SAME DAY. MAINTAIN RECORDS OF CONCRETE PLACEMENT. RECORD DATE, LOCATION, QUANTITY, AIR TEMPERATURE, AND TEST SAMPLES TAKEN. SAW CUT JOINTS WITHIN 24 HOURS AFTER PLACING. USE 3/16 INCH THICK BLADE, CUT INTO 1/4 DEPTH OF SLAB THICKNESS. IF NO SPACING OF JOINTS IS INDICATED ON DRAWINGS, PLACE JOINTS AT A MAXIMUM SPACING OF 10 FEET IN EACH DIRECTION.
8. COORDINATE CONCRETE WORK WITH THAT OF OTHER TRADES TO ALLOW FOR SETTING OF SLEEVES, ACCESSORIES, ETC.
9. ALL ANCHOR RODS SHALL BE IN PLACE PRIOR TO POURING OF CONCRETE.
10. CURING AND PROTECTION:
    COMPLY WITH REQUIREMENTS OF ACI 308 UNLESS EXCEEDED HEREIN. IMMEDIATELY AFTER PLACEMENT, PROTECT CONCRETE FROM PREMATURE DRYING, EXCESSIVELY HOT OR COLD TEMPERATURES, AND MECHANICAL INJURY.
    CONCRETE SLAB CURING:
    1. WET CURE ALL CONCRETE SLABS FOR A MINIMUM OF 7 DAYS. COMPLETELY COVER POUR AREA WITH MOISTURE RETAINING COVER AND PROTECT AGAINST MOVEMENT. KEEP MOISTURE RETAINING COVER CONTINUOUSLY MOIST FOR FULL 7 DAY PERIOD. DO NOT PERMIT LOADING OR PARTIAL LOADING CAUSED BY VEHICLE TRAFFIC OR MATERIAL PLACEMENT DURING THIS CURING PERIOD.
    2. IN NO CASE SHALL LIQUID CURING COMPOUND BE USED WHERE COMPOUND MAY BE INCOMPATIBLE WITH FLOOR FINISH MATERIALS.

CONCRETE CONT:

11. FIELD QUALITY CONTROL:
    AN INDEPENDENT TESTING AGENCY WILL PERFORM FIELD QUALITY CONTROL TESTS. PROVIDE FREE ACCESS TO CONCRETE OPERATIONS AT PROJECT SITE AND COOPERATE WITH APPOINTED FIRM. CONTRACTOR MUST PROVIDE MINIMUM 48 HOURS NOTICE TO TESTING AGENCY AND ARCHITECT PRIOR TO ALL CONCRETE POURS. FOR EACH TEST, MOLD AND CURE THREE CONCRETE TEST CYLINDERS. OBTAIN TEST SAMPLES FOR EVERY 50 CU YD OR LESS OF EACH CLASS OF CONCRETE PLACED. OBTAIN REPRESENTATIVE SAMPLES OF FRESH CONCRETE IN ACCORDANCE WITH ASTM C 172. PERFORM COMPRESSION STRENGTH TESTS PER ASTM C 39/C 39M. BREAK ONE CYLINDER AT 7 DAYS AND TWO CYLINDERS AT 28 DAYS. TAKE ONE ADDITIONAL TEST CYLINDER DURING COLD WEATHER CONCRETING, CURED ON JOB SITE UNDER SAME CONDITIONS AS CONCRETE IT REPRESENTS. RECORD AMBIENT TEMPERATURE AT TIME OF CONCRETE SAMPLING.
12. ALL EXTERIOR EXPOSED CONCRETE TO HAVE 6%, PLUS 1% OR MINUS 1.5% ENTRAINED AIR.

JOINTS IN CONCRETE

1. CONSTRUCTION AND/OR CONTRACTION JOINTS SHALL BE MADE AS DETAILED ON THE DRAWINGS.
2. CONSTRUCTION AND/OR CONTRACTION JOINTS FOR SLAB-ON-GRADE CONSTRUCTION SHALL BE LOCATED ON COLUMN LINES.
3. MAXIMUM SPACING OF CONSTRUCTION AND/OR CONTRACTION JOINTS IN SLAB-ON-GRADE CONSTRUCTION SHALL BE 10'-0". JOINTS SHALL BE PLACED TO PRODUCE PANELS THAT ARE AS SQUARE AS POSSIBLE AND NEVER EXCEEDING A LENGTH TO WIDTH RATIO OF 1.5 TO 1.
4. CONSTRUCTION OR CONTRACTION JOINTS IN CONCRETE FOUNDATION WALLS SHALL BE SPACED NO FURTHER THAN 20'-0" APART.

EXPANSION BOLTS

1. ALL EXPANSION BOLTS INSTALLED INTO NORMAL OR LIGHTWEIGHT CONCRETE SHALL BE HILTI KWIK BOLT TZ OR SIMPSON STRONG-BOLT AS NOTED ON THE DRAWINGS. MINIMUM EMBEDMENT, UNLESS OTHERWISE NOTED, SHALL BE: 4" FOR 1/2" DIAMETER, 5" FOR 5/8" AND 6" FOR 3/4" DIAMETER.
2. ALL EXPANSION ANCHORS INSTALLED INTO GROUT FILLED CONCRETE MASONRY SHALL BE HILTI KWIK BOLT 3, SIMPSON WEDGE-ALL, OR POWERS FASTNERS POWER-BOLT. MINIMUM EMBEDMENT, UNLESS OTHERWISE NOTED, SHALL BE: 4" FOR 1/2" DIAMETER, 5" FOR 5/8" AND 3/4" DIAMETER.
3. ALL EXPANSION ANCHORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S GUIDELINES FOR INSTALLATION.
4. SUBSTITUTE EXPANSION ANCHORS QUALIFIED PER ACI 355.2 AND ICC-ES AC193. SPECIFICATION FS A-A 1923A, TYPE 4 MAY BE USED ONLY AFTER SUBMISSION OF TEST DATA OR DESIGN CHARTS AND APPROVAL BY ARCHITECT/ENGINEER.

STEEL ROOF DECK

1. STEEL ROOF DECK SHALL BE PAINTED OR GALVANIZED AS INDICATED IN THE PROJECT SPECIFICATIONS.
2. END JOINTS OF ROOF DECK SHALL HAVE 2" MINIMUM END LAPS.
3. ROOF DECK SHALL BE 1 1/2" x 22 GA. WIDE RIB DECK, TYPE B, UNLESS NOTED OTHERWISE ON DRAWINGS.
4. ROOF DECK SHALL BE WELDED AT 12" OC OVER ALL INTERIOR SUPPORTS AND 6" OC OVER ALL EXTERIOR SUPPORTS, UNLESS NOTED OTHERWISE ON DRAWINGS.
5. WELDS TO HAVE A NOMINAL DIAMETER OF 5/8".
6. PROVIDE ONE SIDELAP SCREW PER SPAN, MINIMUM, UNLESS NOTED OTHERWISE ON DRAWINGS OR REQUIRED FOR MINIMUM SIDELAPS BY THE STEEL DECK INSTITUTE.
7. MAKE JOINTS OVER SUPPORTING MEMBER ONLY AND USE MINIMUM TRIPLE SPANS.
8. MECHANICAL FASTENERS MAY BE USED WITH THE APPROVAL OF THE ARCHITECT AND STRUCTURAL ENGINEER.

REINFORCING STEEL

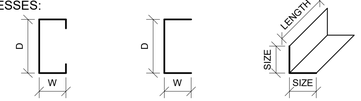
1. THE REINFORCING STEEL CONTRACTOR SHALL FABRICATE ALL REINFORCEMENT AND FURNISH ACCESSORIES, CHAIRS, SPACER BARS AND SUPPORTS NECESSARY TO SECURE THE REINFORCEMENT UNLESS SHOWN OTHERWISE ON THE PLANS AND/OR DETAILS.
2. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.
3. WELDED WIRE REINFORCING SHALL BE SUPPLIED IN FLAT SHEETS AND SHALL CONFORM TO ASTM A1064.
4. CONCRETE REINFORCEMENT SHALL BE PLACED ACCORDING TO CRSI "RECOMMENDED PRACTICE FOR PLACING REINFORCEMENT BARS."
5. ALL REINFORCEMENT SPLICES SHALL BE LAPPED 48 BAR DIAMETERS MINIMUM UNLESS OTHERWISE NOTED. PROVIDE CORNER BARS FOR ALL HORIZONTAL REINFORCEMENT AT CORNERS AND INTERSECTIONS.
6. TOP BARS SHALL BE HOOKED AT END SPANS.
7. IN LIEU OF SYNTHETIC MACRO-FIBERS, CONTRACTOR MAY SUBITUTE 6X6-W2.9XW2.9 WWR PLACED AT AN ELEVATION OF t/3 IN SLAB

MISCELLANEOUS

1. ALL ANCHOR BOLTS FOR MECHANICAL AND ELECTRICAL EQUIPMENT ARE FURNISHED AND LOCATED BY THE RESPECTIVE CONTRACTORS AND SET BY THE GENERAL CONTRACTOR EXCEPT WHERE THE OTHER CONTRACTORS FURNISH THEIR OWN CONCRETE PADS.
2. ALL PIPE SLEEVES ARE FURNISHED BY AND LOCATED BY THE MECHANICAL AND ELECTRICAL CONTRACTOR AND SET BY THE GENERAL CONTRACTOR.
3. THE GENERAL CONTRACTOR SHALL VERIFY ALL OPENING SIZES, PAD SIZES, AND LOCATIONS WITH THE RESPECTIVE CONTRACTORS.
4. ALL CORE DRILLING SHALL BE DONE BY THE MECHANICAL AND ELECTRICAL CONTRACTORS FOR THEIR OWN WORK UNDER THE SUPERVISION OF THE GENERAL CONTRACTOR. NO REINFORCING SHALL BE CUT. VERIFY LOCATION OF REINFORCING BEFORE CORE DRILLING. THERE SHALL NOT BE ANY CORE DRILLING THROUGH BEAMS OR COLUMNS. MAXIMUM CORE HOLE THROUGH SLABS SHALL BE PIPE DIAMETER PLUS 1".

COLD-FORMED STEEL (CFS) FRAMING

1. ALL COLD-FORMED STEEL (CFS) SECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."
2. ALL COLD-FORMED STEEL FRAMING MEMBERS SHALL BE OF THE TYPE, SIZE AND GAUGE AS SHOWN ON THE PLANS, MIN 43 MIL.
3. ALL STUDS, JOISTS, AND ACCESSORIES SHALL BE PRIMED WITH RUST INHIBITIVE PAINT MEETING THE PERFORMANCE REQUIREMENTS OF TT-P-636C, OR SHALL BE FORMED FROM STEEL HAVING A G-60 GALVANIZED COATING CONFORMING TO ASTM A924.
4. ALL PAINTED 97, 68 AND 54 MIL. MEMBERS SHALL MEET THE REQUIREMENTS OF ASTM A1011 WITH A MINIMUM YIELD OF 50,000 PSI. ALL GALVANIZED 97, 68, AND 54 MIL. MEMBERS SHALL MEET THE REQUIREMENTS OF ASTM A653 WITH A MINIMUM YIELD OF 50,000 PSI.
5. ALL PAINTED 43 AND 33 MIL. MEMBERS SHALL MEET THE REQUIREMENTS OF ASTM A1008 WITH A MINIMUM YIELD OF 33,000 PSI. ALL GALVANIZED 43 AND 33 MIL. MEMBERS SHALL MEET THE REQUIREMENTS OF ASTM A653 WITH A MINIMUM YIELD OF 33,000 PSI.
6. WELDING, WHERE PERMITTED, IS TO BE DONE PER MANUFACTURER'S RECOMMENDATIONS ON ROD TYPE AND AMPERAGE. MINIMUM GAUGE FOR WELDING SHALL BE 54 MIL. WELDS WITHIN EXTERIOR FRAMING WALLS SHALL BE TOUCHED UP WITH ZINC RICH PRIMER.
7. ALL COLD-FORMED STEEL STUDS AND JOIST SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS REGARDING MINIMUM INSTALLATION STANDARDS FOR BEARING, BRIDGING AND BRACING.
8. COLD-FORMED STEEL STUDS USED AS BACKUP FOR MASONRY SHALL BE OF A CONFIGURATION AND GAUGE (54 MIL. MIN) TO PROVIDE SUFFICIENT STIFFNESS AS CONTROLLED BY A MAXIMUM DEFLECTION OF L/600 UNDER FULL LATERAL LOAD. ALL STUDS AND ACCESSORIES USED AS BACKUP FOR MASONRY SHALL BE FORMED FROM STEEL HAVING A G-90 GALVANIZED COATING CONFORMING TO ASTM A653. FIELD WELDING SHALL NOT BE PERMITTED.
9. COLD-FORMED STEEL MEMBER DESIGNATIONS ARE PER THE STEEL STUDS MANUFACTURERS ASSOCIATION (SSMA). THE FOLLOWING IS AN EXAMPLE OF HOW TO READ SSMA'S DESIGNATIONS FOR STUDS, TRACK SIZES AND MIL THICKNESSES:



TYPICAL STUD AND RAFTER | TYPICAL TRACK | TYPICAL ANGLE

MEMBERS ARE DESUGNATED ON THIS DRAWING AS FOLLOWS:

33 MILS = 20 GA.
43 MILS = 18 GA.
54 MILS = 16 GA.
68 MILS = 14 GA.
97 MILS = 12 GA.

STUDS AND RAFTERS - 600S162 - 68
D, W, S = STUD, THICKNESS IN MILS

TRACKS - 600T125 - 68
D, W, T = TRACK, THICKNESS IN MILS

ANGLES - ∠ 3 x 3 x 68 x 4 1/2
SIZE, MILS, LENGTH (INCHES)

125 = 1.25" = 1 1/4"	250 = 2.5" = 2 1/2"	550 = 5.5" = 5 1/2"
137 = 1.37" = 1 3/8"	300 = 3.0" = 3"	600 = 6.0" = 6"
162 = 1.62" = 1 5/8"	362 = 3.62" = 3 5/8"	725 = 7.25" = 7 1/4"
200 = 2.00" = 2"	400 = 4.0" = 4"	800 = 8.0" = 8"

LINTEL NOTES

1. LOOSE LINTELS FOR NON-LOAD BEARING WALLS SHALL HAVE A MINIMUM END BEARING OF 8" AND SHALL BE THE FOLLOWING SIZES, UNLESS NOTED OTHERWISE (LINTEL SIZES GIVEN ARE FOR NEW MASONRY CONSTRUCTION ONLY; SPANS NOTED ARE CLEAR SPANS):
   6" WALLS:
   UP TO 4'-0" SPAN — 2-L3 1/2x2 1/2x5/16 LLV
   4'-0" TO 6'-4" SPAN — 2-L3 1/2x2 1/2x3/8 LLV
   TYPICAL WALLS (1-L FOR EACH 4" OF WALL THICKNESS):
   UP TO 4'-0" SPAN — L3 1/2x3 1/2x5/16
   OVER 4'-0" TO 6'-0" — L5x 3 1/2x3/8 LLV
   OVER 6'-0" TO 8'-0" — L6x3 1/2x3/8 LLV
   OVER 8'-0" TO 12'-0" — W8x18 + 5/16 PL ON BOTTOM (PL TO BE 1/2" LESS THAN WALL WIDTH)
2. PLATES ON LINTELS SHALL BE SHOP WELDED TO MEMBER W/ 1/4"x2" FILLET WELDS AT 12" O.C. STAGGERED.
3. WELD TOGETHER ALL BACK-TO-BACK ANGLES.
4. CONTRACTOR SHALL COORDINATE ALL REQUIRED OPENINGS IN NON LOAD BEARING MASONRY WALLS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.

TRIA ARCHITECTURE
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CIVIL CONSULTANT: eBG associates inc. land service group (P) 800.723.7805
LANDSCAPE CONSULTANT: JSD (P) 312.644.3379
STRUCTURAL CONSULTANT: Larson Engineering, Inc. (P) 630.357.0940

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER:	24-002
PROJECT MANAGER:	SWL
DRAWN BY:	
ISSUED FOR BID:	09/06/2024

DATE	REVISION

GENERAL NOTES

100% CD/IFB

S0.00

REINFORCED MASONRY

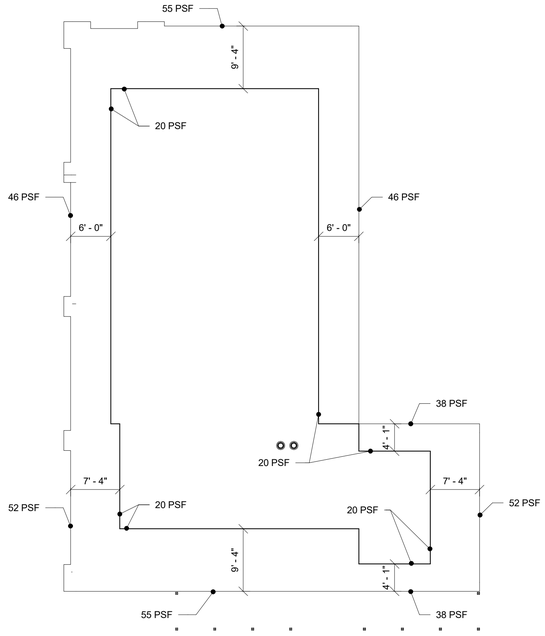
1. ALL MASONRY SHALL CONFORM TO TMS 402-16, "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" AND TMS 602-16 "SPECIFICATION FOR MASONRY STRUCTURES."
2. ALL LOAD BEARING ASTM C90 CONCRETE MASONRY UNITS SHALL HAVE A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2650 PSI OR PROVIDE F'm GREATER THAN OR EQUAL TO 2000 PSI BY THE PRISM STRENGTH TEST METHOD.
3. GROUT FOR VERTICALLY REINFORCED MASONRY WALLS AND BOND BEAMS SHALL CONSIST OF 1 PORTLAND CEMENT: 2 1/2 FINE AGGREGATE: 2 PEA GRAVEL: F'c = 2500 PSI @ 28 DAYS. GROUT SLUMP SHALL BE 9"-10".
4. ALL MASONRY WALLS SHALL HAVE HORIZONTAL JOINT REINFORCING CONSISTING OF TWO OR MORE GALVANIZED STANDARD WEIGHT 9 GA LONGITUDINAL WIRES CONNECTED WITH CROSS WIRES FORMING A TRUSS OR LADDER CONFIGURATION. ALL REINFORCING SHALL BE LOCATED EVERY SECOND COURSE AND WITHIN 16" OF TOP AND BOTTOM OF WALL. PROVIDE ADDITIONAL HORIZONTAL JOINT REINFORCING ABOVE AND BELOW ALL OPENINGS, AND EXTEND 24" MINIMUM BEYOND SIDES OF OPENINGS.
5. SUPPLY VERTICAL REINFORCING IN MINIMUM 4'-0" PLUS 48 BAR DIAMETER LAP LENGTHS.
6. DOWELS SHALL MATCH SIZE AND NUMBER OF VERTICAL WALL REINFORCING UNLESS NOTED OTHERWISE. HOOK INTO FOUNDATION 1'-0" MIN. AND LAP 48 BAR DIAMETER WITH MAIN STEEL.
7. WALL CONSTRUCTION LIFTS FOR REINFORCING BARS AND INSULATION FILL SHALL BE PER TMS 402.
8. TYPE "N" MORTAR REQUIRED FOR ALL WALLS UNLESS NOTED OTHERWISE.
9. SEE ARCHITECTURAL PLANS FOR LOCATION AND DETAIL OF CONTROL JOINTS AND EXPANSION JOINTS. REINFORCED WALLS SHALL HAVE THE FIRST VERTICAL BAR AND DOWEL WITHIN 8" OF JOINT ON EACH SIDE OF JOINT.
10. ALL STEEL BEAMS BEARING ON MASONRY WALLS SHALL HAVE 3 COURSES MINIMUM FILLED WITH GROUT DIRECTLY BELOW THE BEARING POINT EXCEPT AS NOTED ON PLAN.
11. BOND BEAMS 6" OR SMALLER USE 1-#5 CONT., BOND BEAMS 8" OR LARGER USE 2-#5 CONT., UNLESS NOTED OTHERWISE.
12. THE TOP OF ALL NON-LOAD BEARING MASONRY WALLS SHALL BE LATERALLY BRACED AT THE UNDERSIDE OF THE FLOOR OR ROOF DECK ABOVE U.N.O. BRACING SHALL CONSIST OF L'S 3x3x1/4 x 0'-8" LG. AT 4'-0" MAX. O.C. STAGGERED AND ATTACHED WITH (2) #10 TEK SCREWS U.N.O. PROVIDE 1" GAP BETWEEN THE TOP OF WALL AND THE UNDERSIDE OF THE DECK. INSTALL VERTICAL LEGS OF ANGLE FLUSH WITH THE WALL BUT DO NOT FASTEN TO THE WALL.
13. INTERIOR NON-LOAD BEARING MASONRY WALLS THAT ARE NOT LATERALLY BRACED PER THE ABOVE NOTE SHALL BE REINFORCED WITH #5 BARS AT 48" O.C. FULL HEIGHT OF WALL AND DOWELED INTO THE THICKENED SLAB BELOW. COORDINATE LOCATIONS WITH THE GENERAL CONTRACTOR. THE REINFORCEMENT MAY BE OMITTED FOR 6" WALL LESS THAN 5'-0" HIGH, 8" WALLS LESS THAN 7'-0" HIGH, 10" WALLS LESS THAN 8'-6" HIGH AND 12" WALLS LESS THAN 7'-0" HIGH.
14. NON-LOAD BEARING INTERIOR MASONRY WALLS THAT ARE LATERALLY BRACED AT OR NEAR THE TOP OF THE WALL SHALL BE REINFORCED AS FOLLOWS FOR CORRESPONDING WALL HEIGHTS (REINFORCEMENT SHALL BE CENTERED IN THE WALL):
    6" WALLS:
    FOR WALLS UP TO 14'-0" NO REINFORCEMENT REQUIRED
    FOR WALLS 14'-0" TO 24'-0" #6 @ 48" O.C. FULL HEIGHT
    8" CMU:
    FOR WALLS UP TO 18'-0" NO REINFORCEMENT REQUIRED
    FOR WALLS 18'-0" TO 31'-0" #6 @ 48" O.C. FULL HEIGHT
    10" CMU:
    FOR WALLS UP TO 25'-0" NO REINFORCEMENT REQUIRED
15. MASONRY WALLS ARE DESIGNED FOR IN PLACE LOADS. MASONRY CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY BRACING OF WALLS UNTIL ALL CONNECTIONS ARE COMPLETE AND MORTAR AND GROUT HAVE CURED. NOTE THAT INTERIOR WALLS ARE NOT DESIGNED FOR EXTERIOR WIND LOADS SO CARE SHOULD BE TAKEN TO ADEQUATELY BRACE WALL FOR EXTERIOR WIND LOADS DURING CONSTRUCTION.

STRUCTURAL STEEL

1. FABRICATION AND ERECTION OF STRUCTURAL STEEL MEMBERS SHALL BE IN ACCORDANCE WITH THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" AS INDICATED IN THE FOURTEENTH EDITION OF THE "MANUAL OF STEEL CONSTRUCTION" FOR ALLOWABLE STRENGTH DESIGN UNLESS NOTED OTHERWISE.
2. ALL CONNECTIONS SHALL BE BOLTED OR WELDED AND SHALL BE DESIGNED FOR THE SERVICE-LOAD END REACTIONS INDICATED ON PLANS, OR IF NOT INDICATED, SHALL BE DESIGNED TO DEVELOP 60% OF THE ALLOWABLE UNIFORM LOAD TABULATED IN THE FOURTEENTH EDITION OF THE AISC "MANUAL OF STEEL CONSTRUCTION" FOR ALLOWABLE STRENGTH DESIGN, UNLESS NOTED OTHERWISE. NUMBER OF BOLTS MUST SATISFY MINIMUM, REQUIREMENTS AS FOLLOWS: 2 BOLTS PER CONNECTION FOR 8" AND 10" DEEP MEMBERS, 3 FOR 12" AND 14" DEEP MEMBERS, 4 FOR 16" AND 18" DEEP MEMBERS, 5 FOR 21" AND 24" DEEP MEMBERS, AND 6 FOR 27" AND DEEPER MEMBERS. PROVIDE SIGNED AND SEALED CALCULATIONS BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT FOR ALL STEEL CONNECTIONS.
3. ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING STANDARDS:
    STEEL WIDE FLANGES ASTM A992
    STEEL ANGLES AND PLATES ASTM A36 OR ASTM A572, GRADE 50
    STEEL TUBE ASTM A500, GRADE C
4. ALL FILLER METAL USED IN WELDING SHALL BE 70 KSI YIELD, LOW-HYDROGEN.
5. ALL WELDING SHALL BE BY CERTIFIED WELDERS AND SHALL CONFORM TO THE "STRUCTURAL WELDING CODE", AWS D1.1 AND MEET AISC MINIMUM REQUIREMENTS FOR WELD SIZE.
6. FIELD CONNECTIONS ARE TO BE BOLTED AND INSTALLED IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS". USE MIN 3/4" DIAMETER HIGH STRENGTH BOLTS AND NUTS, ASTM F3125 A325-GRADE UNLESS NOTED OTHERWISE. CONNECTIONS SHALL BE ST TYPE EXCEPT WHERE PT OR SC TYPE CONNECTIONS ARE SPECIFICALLY NOTED. WHERE SC TYPE CONNECTIONS ARE NOTED PROVIDED CLASS A FAYING SURFACES, WITH SLIP CHECKED AT SERVICE LEVEL.
7. STEEL COLUMN BASE PLATES SHALL BE SIZE SHOWN ON PLAN WITH 3/4" DIAMETER ANCHOR RODS (F1554, GR 36) UNO AND 3/4" NON-METALLIC, NON-SHRINK GROUT FOR UNIFORM BEARING.
8. UNLESS NOTED OTHERWISE, STRUCTURAL STEEL SUPPLIER IS TO FURNISH L5x3 1/2x5/16 LLV SHOP WELDED ANGLE FRAMES AT ALL FLOOR AND ROOF OPENINGS. VERIFY SIZE AND LOCATION WITH MECHANICAL (M/E/P/FP) CONTRACTOR. NOT ALL OPENINGS REQUIRING FRAMES SHOWN ON DRAWINGS. NO EXTRAS FOR ADDITIONAL FRAMES WILL BE APPROVED DUE TO FAILURE OF GC TO COORDINATE BETWEEN TRADES.
9. ALL PLATES USED IN BOLTED CONNECTIONS SHALL HAVE ROLLED OR GAS CUT EDGES.
10. ALL STRUCTURAL STEEL AND MISCELLANEOUS METALS SHALL BE PRIME PAINTED WITH ONE COAT OF FABRICATOR'S STANDARD RUST-INHIBITIVE PRIMER OR AS INDICATED IN THE PROJECT SPECIFICATION. TOUCH UP ALL DISTURBED AREAS AFTER ERECTION. STEEL TO BE FIREPROOFED SHALL RECEIVE PAINT/FINISH PROCESS COMPATIBLE WITH FIREPROOFING.
11. ADJUSTABLE MASONRY TIES SHALL BE FURNISHED AT 16" OC VERTICALLY AND 24" OC HORIZONTALLY ON ALL STEEL MEMBERS ENCASED IN OR ADJACENT TO MASONRY WALLS WHETHER OR NOT SUCH ANCHORS ARE SHOWN ON THE DRAWINGS. TIES SHALL BE CAPABLE OF TRANSMITTING FORCES PERPENDICULAR TO THE PLANE OF THE WALL.

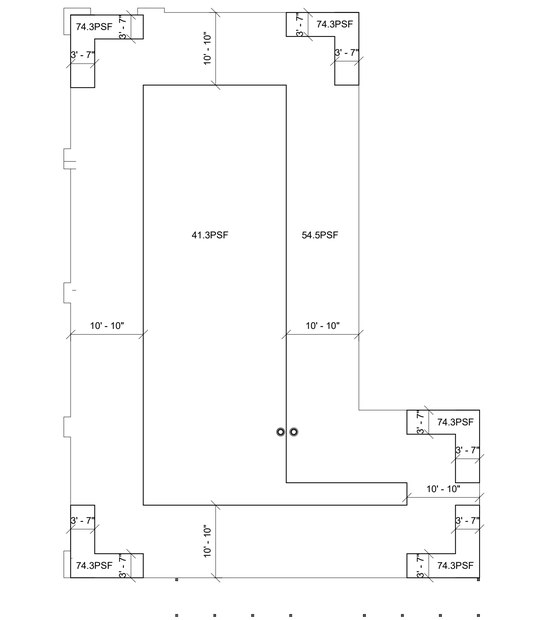
SHOP DRAWINGS

1. SHOP DRAWINGS, UNLESS NOTED OTHERWISE, SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
2. PRIOR TO SUBMITTAL, THE CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS AND MAKE ANY CORRECTIONS REQUIRED. THE CONTRACTOR SHALL STAMP AND SIGN THE DRAWINGS THAT HE HAS REVIEWED THEM. ANY SHOP DRAWINGS RECEIVED WITHOUT THE CONTRACTOR'S SIGNED REVIEW STAMP SHALL BE IMMEDIATELY RETURNED WITHOUT ENGINEER'S REVIEW.
3. SHOP DRAWINGS SHALL BE FURNISHED FOR ALL STRUCTURAL COMPONENTS.



1 S0.01 SNOW DRIFT PLAN
3/32" = 1'-0"

NORTH



2 S0.01 WIND UPLIFT PLAN (UPLIFT)
3/32" = 1'-0"

NORTH

STRUCTURAL ABBREVIATIONS

AB	ANCHOR BOLT	INT	INTERIOR
ADDL	ADDITIONAL	JF	JOINT FILLER
ADJ	ADJACENT	JST	JOIST
AFF	ABOVE FINISH FLOOR	JT	JOINT
AHU	AIR HANDLING UNIT	K	KIP (OR 1000 POUNDS)
ALUM	ALUMINUM	KLF	KIPS PER LINEAR FOOT
ALT	ALTERNATE	L	ANGLE
APPROX	APPROXIMATE(LY)	LATL	LATERAL
ARCH	ARCHITECT/ARCHITECTURAL	LB, #	POUNDS
B/	BOTTOM OF	LF	LINEAR FOOT
B/B	BACK TO BACK	LH	LEFT HAND
BL	BRICK LEDGE	LL	LIVE LOAD
BLDG	BUILDING	LLH	LONG LEG HORIZONTAL
BM	BEAM	LLV	LONG LEG VERTICAL
BOS	BOTTOM OF STEEL	LT GA	LIGHT GAUGE
BOT	BOTTOM	LT WT	LIGHT WEIGHT
BRG	BEARING	LSH	LONG SIDE HORIZONTAL
BRDG	BRIDGING	LVL	LAMINATED VENEER LUMBER
BSMT	BASEMENT	M	MOMENT
BS	BOTH SIDES	MATL	MATERIAL
C/C	CENTER TO CENTER	MAU	MAKE-UP AIR UNIT
C	COMPRESSION	MAX	MAXIMUM
CA	CAISSON	MECH	MECHANICAL
CH	CHANNEL	MEP	MECHANICAL ELECTRICAL PLUMBING
CIP	CAST-IN-PLACE CONCRETE		
CJ	CONTRACTION/CONSTRUCTION JOINT	MEZZ	MEZZANINE
		MFR	MANUFACTURER
CL	CENTER LINE	MFR REC	MANUFACTURER'S RECOMMENDATIONS
CLG	CEILING		
CLR	CLEAR	MIN	MINIMUM
CM	CONSTRUCTION MANAGER	MISC	MISCELLANEOUS
CMU	CONCRETE MASONRY UNIT	MO	MASONRY OPENING
COL	COLUMN	MP	METAL PANEL
CONC	CONCRETE	MTL	METAL
CONF	CONFERENCE	NA	NOT APPLICABLE
CONN	CONNECTION	NIC	NOT IN CONTRACT
CONST	CONSTRUCTION	NO, #	NUMBER
CONT	CONTINUE (D) (OUS)	NOM	NOMINAL
CONTR	CONTRACTOR	NS	NEAR SIDE
COORD	COORDINATE	NTS	NOT TO SCALE
CTR	CENTER	NWC	NORMAL WEIGHT CONCRETE
DBA	DEFORMED BAR ANCHOR	OC	ON CENTER
DBL	DOUBLE	OD	OUTSIDE DIAMETER
DEMO	DEMOLITION	OH	OPPOSITE HAND
DET	DETAIL	OPNG	OPENING
DIA	DIAMETER	OPP	OPPOSITE
DIAG	DIAGONAL	PC	PRECAST CONCRETE
DIM	DIMENSION (S)	PCC	PVC
DL	DEAD LOAD	PCF	POUNDS PER CUBIC FOOT
DP	DRILLED PIER	PL	PLATE
DWG	DRAWING	PLF	POUNDS PER LINEAR FOOT
DWL	DOWEL	PLYWD	PLYWOOD
E	MODULUS OF ELASTICITY	PREFAB	PREFABRICATED
EA	EACH	PRELIM	PRELIMINARY
ECC	ECCENTRICITY	PSF	POUND PER SQUARE FOOT
EF	EACH FACE	PSI	POUND PER SQUARE INCH
EJ	EXPANSION JOINT	PT	POST TENSIONED
EL	ELEVATION	QTY	QUANTITY
EOD	EDGE OF DECK	R	RADIUS
EOR	ENGINEER OF RECORD	RD	ROOF DRAIN
EOS	EDGE OF SLAB	REBAR	REINFORCING STEEL BAR
EQ	EQUAL	REF	REFERENCE
EQUIV	EQUIVALENT	REINF	REINFORCE (D) (MENT)
EQUIP	EQUIPMENT	REQ	REQUIRE (D)
EW	EACH WAY	REV	REVISED/REVISION
EWEF	EACH WAY EACH FACE	RH	RIGHT HAND
EXCAV	EXCAVATE	RTU	ROOF TOP UNIT
EXIST	EXISTING	SCHED	SCHEDULE
EXP	EXPANSION	SECT	SECTION
EXP BT	EXPANSION BOLT	SF	SQUARE FOOT
EXT	EXTERIOR	SHT	SHEET
F/F	FACE TO FACE	SIM	SIMILAR
FAB	FABRICATOR	SL	SNOW LOAD
FD	FLOOR DRAIN	SOG	SLAB ON GRADE
FDTN	FOUNDATION	SPA	SPACES
FIN FLR	FINISHED FLOOR	SPEC	SPECIFICATION
FLR	FLOOR	SST	STAINLESS STEEL
FOC	FACE OF CONCRETE	STD	STANDARD
FOW	FACE OF WALL	STL	STEEL
FP	FIREPROOFING	STRUCT	STRUCTURAL
FS	FAR SIDE	T&B	TOP AND BOTTOM
FSTNR	FASTENER	T&G	TONGUE AND GROVE
FT	FEET OR FOOT	TOC	TOP OF CONC
FTG	FOOTING	TOF	TOP OF FOOTING
GA	GAUGE	TOFDN	TOP OF FOUNDATION
GALV	GALVANIZED	TOP	TOP OF PLANK
GB	GRADE BEAM	TOS	TOP OF SLAB, TOP OF STEEL
GC	GENERAL CONTRACTOR	T	TENSION
GEN	GENERAL	TCX	TOP CHORD EXTENSION
GL	GLUE LAMINATE TIMBER	TD	TRENCH DRAIN
GR	GRADE	THK	THICK
GRTG	GRATING	THRU	THROUGH
GYP	GYPSUM	TYP	TYPICAL
HOR	HORIZONTAL	V	SHEAR
HK	HOOK	VAR	VARIES
HS	HEADED STUD	UNO	UNLESS NOTED OTHERWISE
HT	HEIGHT	VERT	VERTICAL
I	MOMENT OF INERTIA	VIF	VERIFY IN FIELD
IBC	INTERNATIONAL BUILDING CODE	W/	WITH
ID	INSIDE DIAMETER	W/O	WITHOUT
IN, "	INCH OR INCHES	WD	WOOD
INCL	INCLUDE	WP	WORK POINT
INFO	INFORMATION	WS	WATERSTOP
IN-LB	INCH POUND	WT	WEIGHT
INS	INSULATION	WWR	WELDED WIRE REINFORCEMENT

TRIA ARCHITECTURE
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STRUCTURAL CONSULTANT:
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JSD

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER: 24-002
PROJECT MANAGER:
DRAWN BY: SWL

REVISION	DATE
ISSUED FOR BID	09/05/2024

GENERAL NOTES

100% CD/IFB

S0.01

REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCED
1. INSPECT REINFORCING, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT:	-	X	ACI 318: Ch 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
2. REINFORCING BAR WELDING: a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706 b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16" c. INSPECT ALL OTHER WELDS	- X	X X	AWS D1.4 ACI 318:26.6.4	-
3. INSPECT ANCHORS CAST IN CONCRETE	-	X	AIC 318: 17.8.2	-
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4a.	X TABLE 1705.3	X	ACI 318: 17.8.2.4 ACI 318:17.8.2	-
5. VERIFYING USE OF REQUIRED DESIGN MIX.	-	X	ACI 318: CH 19, 26.4.3,26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C 172, ASTM C 31, ACI 318:26.5, 26.12	1908.10
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318: 26.5	1908.6, 1908.7, 1908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318: 26.5.3-26.5.5	1908.9
9. INSPECT OF PRESTRESSED CONCRETE FOR: a. APPLICATION OF PRESTRESSING FORCES. b. GROUTING OF BONDED PRESTRESSING TENDONS.	X X	-	ACI 318:26.10	-
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	-	X	ACI 318: CH 26.9	-
11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-	X	ACI 318: 26.11.2	-
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: 26.11.1.2(b)	-

NOTES:
1. WHERE APPLICABLE, SEE ALSO SECTION 1705.12, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.
2. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318 OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

TABLE 1705.6

REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE DESIGN BEARING CAPACITY	-	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	-	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	-	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	X	-
5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	-	X

MASONRY SHEAR WALL SCHEDULE

MARK	NOMINAL CMU THICKNESS	REINFORCMENT	REMARKS
MSW1	8"	#6 @ 48" OC	(2) #6 @ EA END

LINTEL SCHEDULE

Mark	Type	END BEARING	SHAPE	REMARKS
L1	HSS16X4X5/8			+ 5/16" PL. CONNECT TO COLUMN
L2	L7X4X3/8	8"		
L3	W8X18	8"		+ 5/16" PL

LT GAUGE HEADER SCHEDULE

Mark	Type	END BEARING	SHAPE	REMARKS
H1	(2) 600S250-68	(2) JACK & (2) KING STUDS		

FOOTING SCHEDULE

f'c = 4000psi
fbrg = 2000psf

MARK	SIZE	LONG REINF BARS	SHORT REINF BARS	REMARKS
F4.0	4'-0"x4'-0"x1'-0"	5 #5	5 #5	
F5.0	5'-0"x5'-0"x1'-0"	5 #5	5 #5	

PIER SCHEDULE

MARK	PIER SIZE B x N	VERTICAL REIN	REIN DETAIL	PIER TIES	TOP OF PIER ELEV
P1	20" x 20"	8 #5	3/S0.02	(3) #3 @ 2" OC REST @ 12" OC	-0'-8"
P2	20" x 20"	8 #5	4/S0.02	(3) #3 @ 2" OC REST @ 12" OC	-0'-8"
P3	20" x 20"	8 #5	5/S0.02	(3) #3 @ 2" OC REST @ 12" OC	-0'-8"
P4	20" x 20"	8 #5	6/S0.02	(3) #3 @ 2" OC REST @ 12" OC	-0'-8"

SPECIAL INSPECTION - MASONRY

MINIMUM INSPECTION

VERIFICATION	FREQUENCY			REFERENCE FOR CRITERIA	
	LEVEL 1	LEVEL 2	LEVEL 3	TMS 402	TMS 602
1. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:				A	
a. PROPORTIONS OF SITE-PREPARED MORTAR	NR	P	P		ART 2.1, 2.6A, & 2.6C
b. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES	NR	P	P		ART 2.4B & 2.4H
c. GRADE, TYPE AND SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES	NR	P	P		ART 2.1, 2.6A
d. PRESTRESSING TECHNIQUE	NR	P	P		ART 3.6B
e. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	NR	$C^{(b)}/P^{(c)}$	C		ART 2.1C.1
f. SAMPLE PANEL CONSTRUCTION	NR	P	C		ART 1.6D
2. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
a. GROUT SPACE	NR	P	C	A	ART 3.2D & 3.2F
b. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS	NR	P	P	SEC 10.8 & 10.9	ART 2.4 & 3.6
c. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS	NR	P	C	SEC 6.1, 6.3.1, 6.3.6 7 6.3.7	ART 3.2E & 3.4
d. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	NR	P	P	A	ART 2.6B & 2.4G1.b
3. VERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION:					
a. MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS	NR	P	P		ART 1.5
b. PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION	NR	P	P		ART 3.3B
c. SIZE AND LOCATION OF STRUCTURAL MEMBERS	NR	P	P		ART 3.3F
d. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION	NR	P	C	SEC 1.2.1(e), 6.2.1, & 6.3.1	
e. WELDING OF REINFORCEMENT	NR	C	C	SEC 6.1.6.1.2	
f. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F (4.4°C)) OR HOT WEATHER (TEMPERATURE ABOVE 90°F (32.2°C))	NR	P	P		ART 1.8C & 1.8D
g. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	NR	C	C		ART 3.6B
h. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMMPLIANCE	NR	C	C	A	ART 3.5, 3.6C
i. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	NR	$C^{(b)}/P^{(c)}$	C		ART 3.3B.9 & 3.3F.1.b
4. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE	NR	P	X	X	ART 1.4B.2.a.3, 1.4B.2.b.3, 1.4B.2.c.3, 1.4B.3, & 1.4B.4

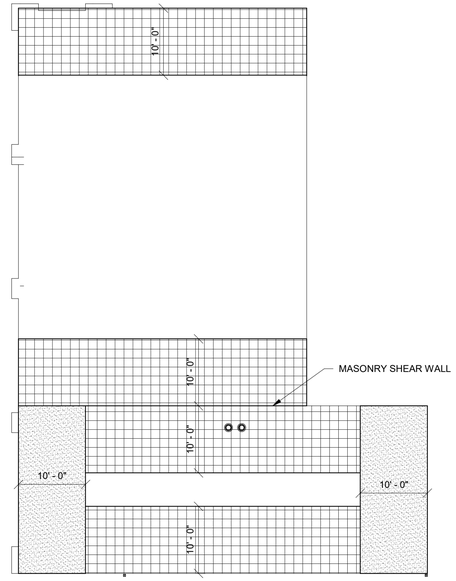
NOTES:
1. FREQUENCY REFERS TO THE FREQUENCY OF INSPECTION, WHICH MAY BE CONTINUOUS DURING THE TASK LISTED OR PERIODICALLY DURING THE LISTED TASK, AS DEFINED IN THE TABLE. NR = NOT REQUIRED, P = PERIODIC, C = CONTINUOUS
2. REQUIRED FOR THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY.
3. REQUIRED AFTER THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY.

COLUMN SCHEDULE

MARK	COLUMN SIZE	BASE PL t x B x N	BOTT OF BASE PL ELEV	ANCHOR ROD	CAP PL "t"	BASE PL DETAIL	REMARKS
C1	HSS5-1/2X5-1/2X3/8	3/4"X12"X1'-0"	T/PIER +1"	(4) 3/4"ØX12" EMBED F1554 GR 36	1/2"	16/S2.00	
C2	HSS4X4X1/4	3/4"x10"x0'-10"	T/PIER +1"	(4) 3/4"ØX12" EMBED F1554 GR 36	1/2"	16/S2.00	
C3	HSS4X4X1/4	3/4"X6"X0'-10"	T/SLAB	(2) 3/4"Ø KB TZ2 W/ 3.75" EMBED	1/2"	17/S2.0	TERMINATE COLUMN AT B/LINTEL L1. WELD ALL-AROUND
C3A	HSS4X4X1/4	3/4"X6"X0'-10"	T/SLAB	(2) 3/4"Ø KB TZ2 W/ 3.75" EMBED	1/2"	17/S2.0	

LT GAUGE SHEAR WALL SCHEDULE

MARK	SHEATHING PANEL	NAILING	**SILL PLATE ANCHORS**	**HOLD-DOWN ANCHORS**	BUILT-UP END STUDS
SW1	5/8" WOOD STRUCTURAL PANEL ONE SIDE	#10 SCREWS @ 6" OC AT PANEL EDGES #10 SCREWS @ 12" OC AT INTERMEDIATE FRAMING MEMBERS	1/2" DIA TITEN HD ANCHOR @ 24" OC W/ 4 1/2" EMBED	SIMPSON S/HDU4 WITH 5/8" DIA HIT-HY 200 V3 + HAS-V-36 ANCHOR. EMBED 12"	(2) 600S162-54 BACK TO BACK
SW2	5/8" WOOD STRUCTURAL PANEL ONE SIDE	#10 SCREWS @ 6" OC AT PANEL EDGES #10 SCREWS @ 12" OC AT INTERMEDIATE FRAMING MEMBERS	1/2" DIA TITEN HD ANCHOR @ 24" OC W/ 4 1/2" EMBED	SIMPSON S/HDU4 WITH 5/8" DIA HIT-HY 200 V3+ HAS-V-36 ANCHOR. EMBED 12"	(2) 600S162-54 BACK TO BACK



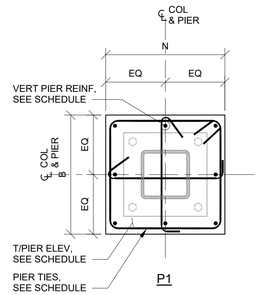
36/5 PATTERN
(4) #12 FASTENERS AT SUPPORTS
(4) #10 FASTENERS AT SIDELAPS

36/4 PATTERN
(2) #12 FASTENERS AT SUPPORTS
(2) #10 FASTENERS AT SIDELAPS

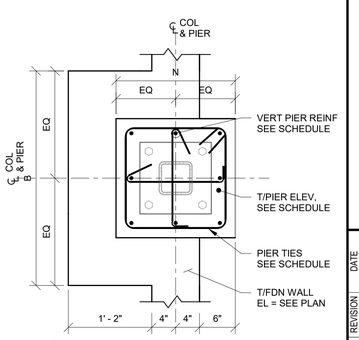
36/4 PATTERN
(1) #12 FASTENERS AT SUPPORTS
(1) #10 FASTENERS AT SIDELAPS

1 S0.02 ROOF DIAPHAGM WELDS & SDIELAPS PATTERN
3/32" = 1'-0"

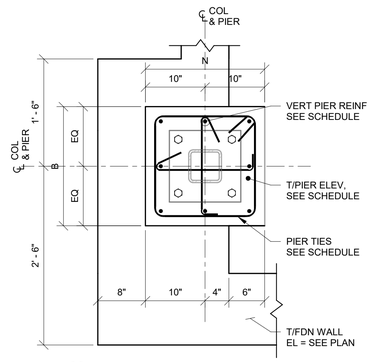
NORTH



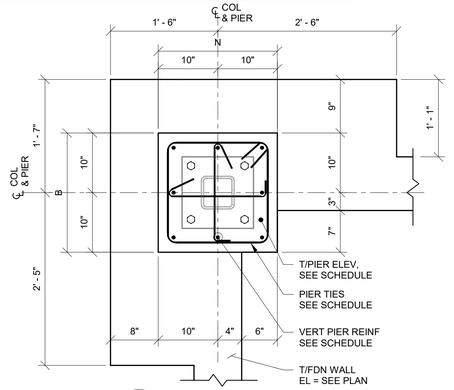
2 S0.02 TYPICAL PIER DETAIL
1" = 1'-0"



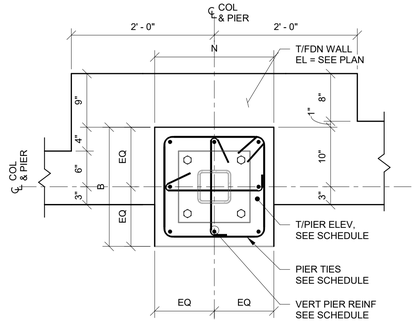
3 S0.02 PIER P1
1" = 1'-0"



4 S0.02 PIER P2
1" = 1'-0"



5 S0.02 PIER P3
1" = 1'-0"



6 S0.02 PIER P4
1" = 1'-0"

TRIA ARCHITECTURE

KITCHEN CONSULTANT:

CIVIL CONSULTANT: (P) 855.562.4422

dlhp associates inc. land service group
(P) 800.728.7805

LANDSCAPE CONSULTANT: JSD (P) 312.644.3379

STRUCTURAL CONSULTANT: Larson Engineering, Inc. (P) 630.357.0940

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

DATE	REVISION

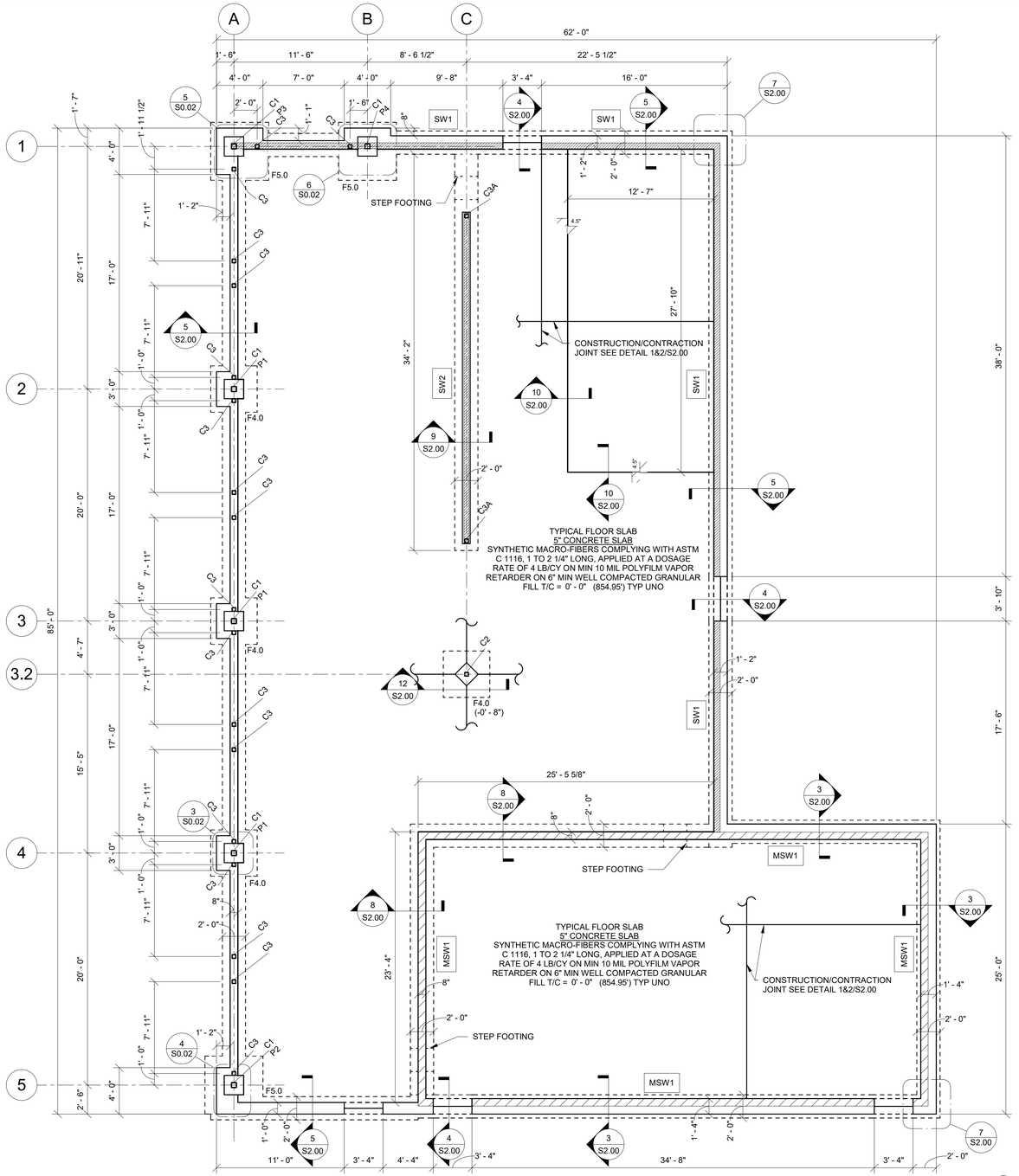
PROJECT NUMBER: 24-002
PROJECT MANAGER:
DRAWN BY: SWL

ISSUED FOR BID: 09/05/2024

SPECIAL INSPECTIONS, SCHEDULES & DIAGRAMS

100% CD/IFB

S0.02



1 S1.00 FOUNDATION PLAN
3/16" = 1'-0"

NORTH

SHEET NOTES:

1) SEE SHEET S0.00, S0.01 & S0.02 FOR GENERAL NOTES, ABBREVIATIONS AND SCHEDULES.
2) VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL, PLUMBING AND MECHANICAL DRAWINGS.
3) CX INDICATES COLUMN. SEE COLUMN SCHEDULE ON SHEET S0.02.
4) T/FOUNDATION WALL ELEVATION = 0'-0" UNLESS NOTED THUS [ ].
5) T/EXTERIOR FOOTING ELEVATION = -3'-6" UNLESS NOTED THUS ( ). T/INTERIOR FOOTING ELEVATION = -0'-8" UNLESS NOTED THUS ( ).
6) LOWER TOP OF FOOTING AND ADD CONCRETE PIER AS REQUIRED, AT LOCATION OF INTERIOR ROOF DRAINS OR WHERE FOOTING WILL INTERFERE WITH PLUMBING INSTALLATION. COORDINATE LOCATIONS AND ELEVATIONS WITH ARCHITECTURAL AND PLUMBING DRAWINGS.
7) PROVIDE THICKENED SLAB PER DETAIL 8 / S2.00 AT ALL INTERIOR NON-LOAD BEARING MASONRY WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR THESE LOCATIONS.
8) PROVIDE DETAIL 6 / S2.00 FOR UTILITY PIPES THROUGH THE FOUNDATION WALL. COORDINATE PIPE LOCATIONS WITH CIVIL, MECHANICAL, ELECTRICAL, PLUMBING AND MECHANICAL DRAWINGS AS WELL AS EXISTING CONDITIONS. NOTE THAT NOT ALL LOCATIONS ARE SHOWN.
9) PROVIDE DOWELS TO MATCH SIZE & SPACING OF VERTICAL MASONRY REINFORCEMENT INDICATED ON FRAMING PLANS.
10) PROVIDE 4" CONCRETE HOUSEKEEPING PAD WITH #4 @ 18" OC EACH WAY AT ALL MECHANICAL PLUMBING OR ELECTRICAL EQUIPMENT. PAD TO BE 6" LARGER THAN UNIT ON ALL SIDES. COORDINATE WITH ARCHITECT AND MECHANICAL AND ELECTRICAL EQUIPMENT CONTRACTOR.
11) COORDINATE FLOOR DRAIN LOCATIONS WITH PLUMBING DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE SLAB SLOPES IN TOLIET ROOMS AND JANITORS CLOSETS.
12) INDICATES LIGHT GAGE FRAMED & MASONRY SHEAR WALL RESEPCTIVELY. PROVIDE (2) #6 VERTICAL REINFORCEMENT AT EACH END OF SHEAR WALL AND ON EACH SIDE OF CONTROLS JOINTS. GROUT CELLS SOLID AT REINFORCEMENT AND PROVIDE DOWELS INTO CONCRETE FOUNDATION TO MATCH WALL REINFORCEMENT. SEE SHEAR WALL SCHEDULE ON S0.02.
13) TYPICAL MASONRY WALL REINFORCEMENT: PROVIDE #6 BARS AT 48" OC. PROVIDE (1) #6 BARS AT JAMBS OF OPENINGS LESS THAN 4'-0" WIDE AND (2) #6 BARS AT JAMBS OF OPENINGS 4'-0" WIDE UP TO 8'-0" WIDE. PROVIDE (2) #6 VERTICAL REINFORCEMENT AT END OF WALL AND ON EACH SIDE OF CONTROL JOINT. GROUT CELLS SOLID AT REINFORCEMENT AND PROVIDE DOWELS INTO CONCRETE FOUNDATION TO MATCH WALL REINFORCEMENT.
14) LT GA MTL STUD WALL SHALL BE 600S162-54 SPACED @ 24" OC TYP A STUD SHALL BE LOCATED DIRECTLY UNDER ANY LT GA JOIST BEARING POINT.

TRIA ARCHITECTURE

JSD

Larson Engineering, Inc.

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STRUCTURAL CONSULTANT:

edge associates inc. land surveying

MEP CONSULTANT: (P) 630.357.0540

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VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

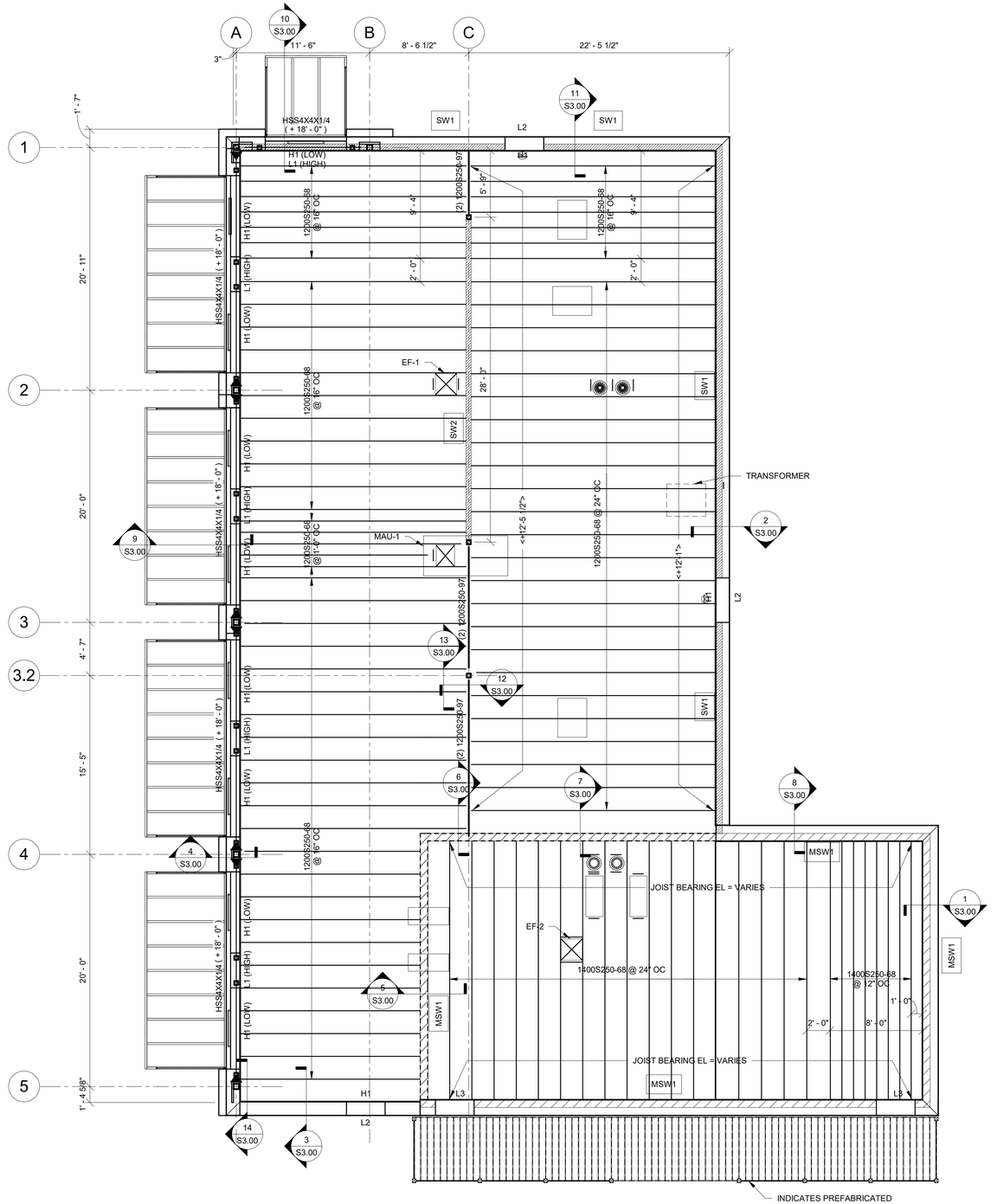
PROJECT NUMBER:	24-002
PROJECT MANAGER:	SWL
DRAWN BY:	
ISSUED FOR BID:	09/06/2024

DATE | REVISION

FOUNDATION PLAN

100% CD/IFB

S1.00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14 S3.00
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2 S3.00
1 S3.00
11' - 6"
8' - 6 1/2"
22' - 5 1/2"
3"
1' - 7"
20' - 11"
20' - 0"
4' - 7"
15' - 5"
1' - 4 5/8"
HSS4X4X1/4 (+ 18' - 0")
HSS4X4X1/4
HSS4X4X1/4 (+ 18' - 0")
HSS4X4X1/4 (+ 18' - 0")
HSS4X4X1/4 (+ 18' - 0")
HSS4X4X1/4 (+ 18' - 0")
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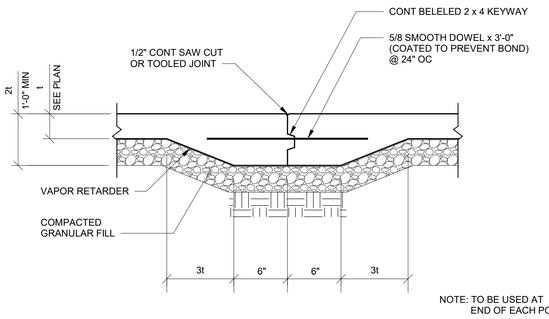
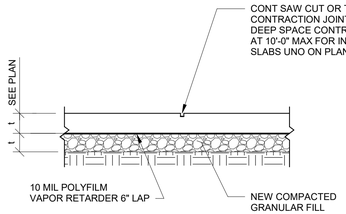
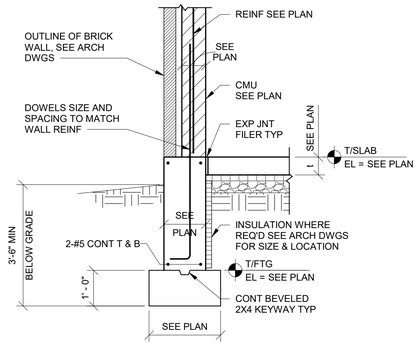


NOTE: TO BE USED AT END OF EACH POUR

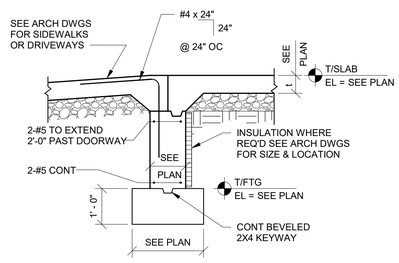
1 S2.00 TYPICAL SLAB CONSTRUCTION JOINT
3/4" = 1'-0"



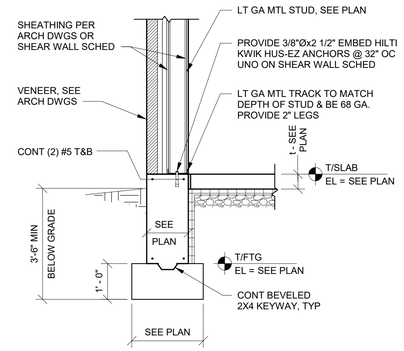
2 S2.00 TYPICAL SLAB CONTRACTION JOINT
3/4" = 1'-0"



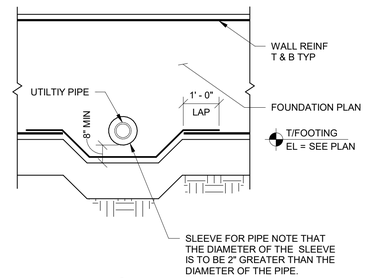
3 S2.00 TYPICAL FROST WALL
1/2" = 1'-0"



4 S2.00 TYPICAL DOOR SECTION
1/2" = 1'-0"



5 S2.00 TYPICAL EXT FROST WALL
1/2" = 1'-0"



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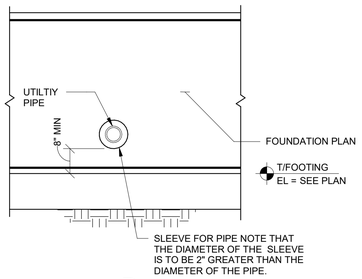

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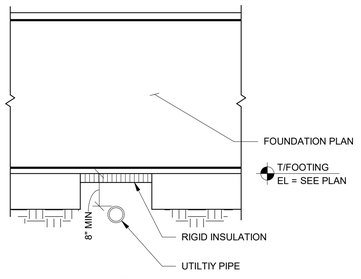

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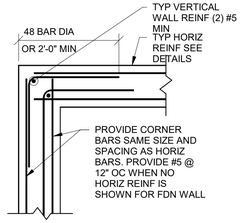
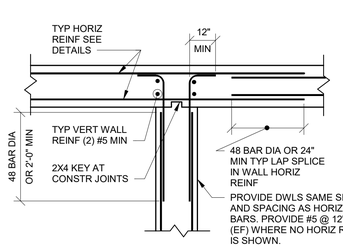
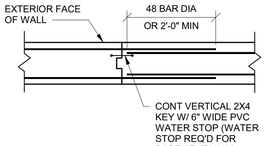


CORNER DETAIL

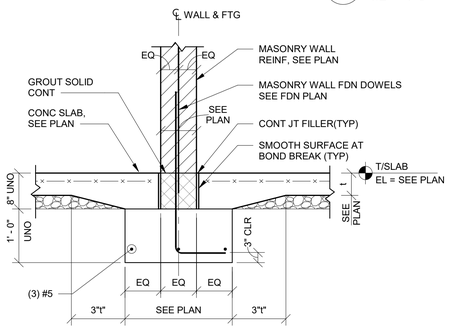


TEE INTERSECTION DETAIL

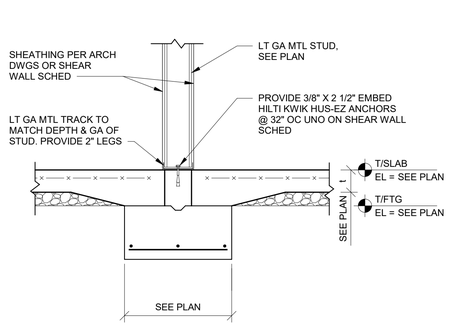


VERTICAL CONSTR JOINT DETAIL

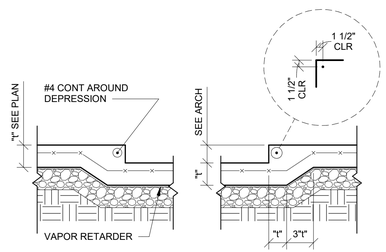
6 S2.00 EXISTING UTILITY PIPE THROUGH NEW FOUNDATION
1/2" = 1'-0"



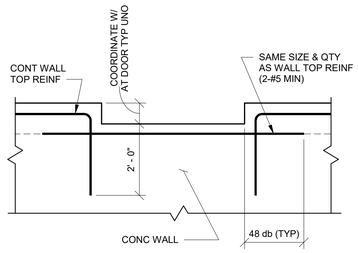
8 S2.00 TYPICAL FOOTING FOR INTERIOR BEARING WALL
3/4" = 1'-0"



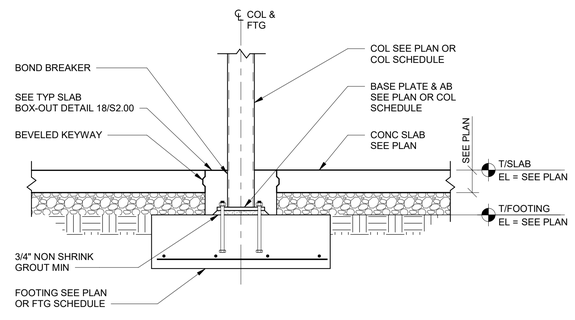
9 S2.00 TYPICAL INTERIOR FOUNDATION
3/4" = 1'-0"



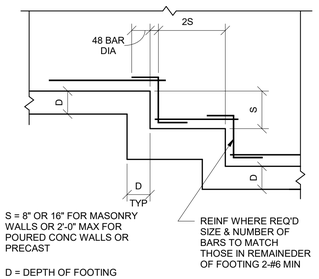
10 S2.00 SECTION @ DEPRESSED SLAB
3/4" = 1'-0"



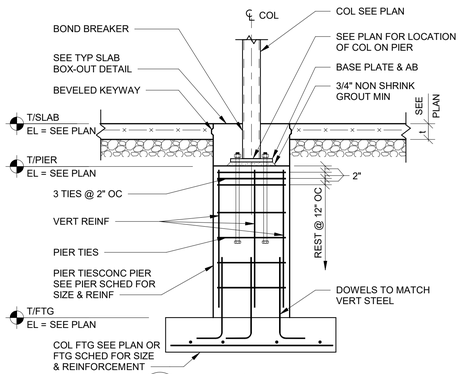
11 S2.00 DOOR DETAIL
1/2" = 1'-0"



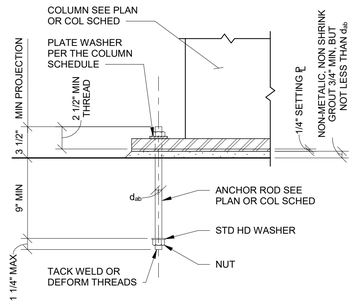
12 S2.00 TYP INTERIOR COLUMN
3/4" = 1'-0"



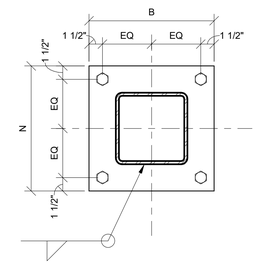
13 S2.00 TYPICAL STEPPED FOOTING
3/4" = 1'-0"



14 S2.00 TYPICAL COLUMN PIER
3/4" = 1'-0"



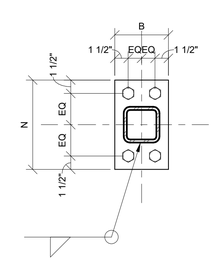
15 S2.00 TYPICAL ANCHOR BOLT DETAIL
1 1/2" = 1'-0"



SEE COLUMN SCHEDULE FOR PLATE & ANCHOR BOLT SIZES

HSS

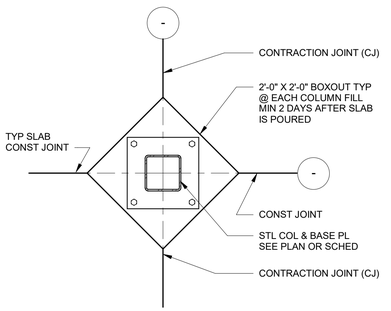
16 S2.00 TYPICAL BASE PLATE DETAILS
1 1/2" = 1'-0"



SEE COLUMN SCHEDULE FOR PLATE & ANCHOR BOLT SIZES

HSS

17 S2.00 TYPICAL BASE PLATE DETAILS
1 1/2" = 1'-0"



18 S2.00 TYPICAL SLAB BOX-OUT AT INTERIOR COLUMN
3/4" = 1'-0"

TRIA ARCHITECTURE

KITCHEN CONSULTANT:

CIVIL CONSULTANT: (P) 630.724.7805

edgp associates inc. land surveying

(P) 855.562.4422

LANDSCAPE CONSULTANT: (P) 312.644.3379

STRUCTURAL CONSULTANT: (P) 630.357.0540

JSD

Larson Engineering, Inc.

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

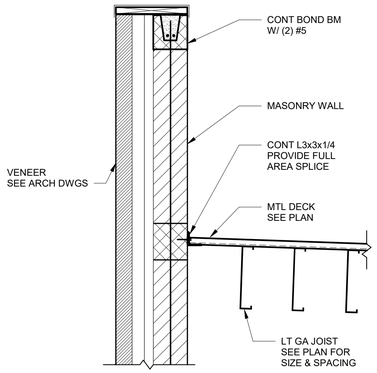
PROJECT NUMBER:	24-002
PROJECT MANAGER:	
DRAWN BY:	SWL
ISSUED FOR BID:	09/06/2024

DATE	REVISION

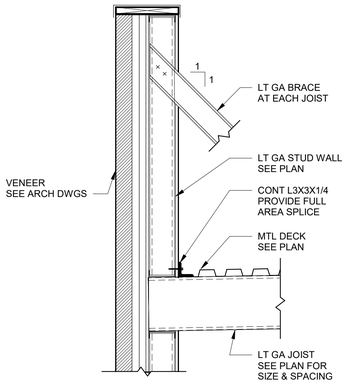
FOUNDATION DETAILS

100% CD/IFB

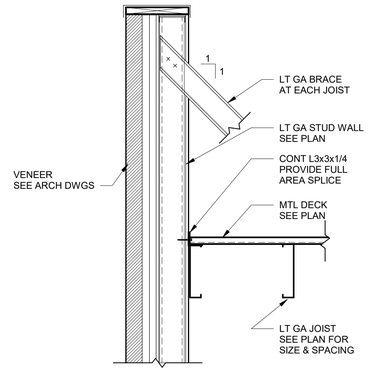
S2.00



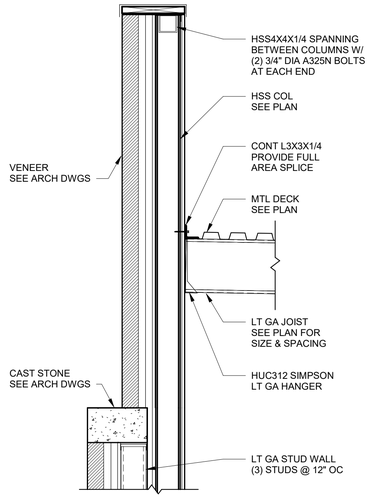
1 S3.00 TYPICAL SECT JOIST PARALLEL TO MASONRY WALL
3/4" = 1'-0"



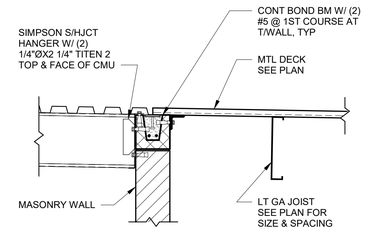
2 S3.00 TYPICAL SECT JOIST PERP TO LT GA WALL
3/4" = 1'-0"



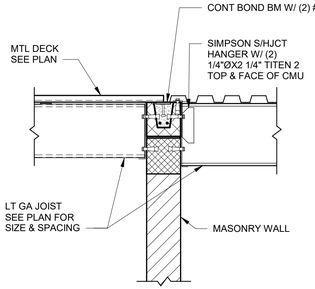
3 S3.00 TYPICAL SECT JOIST PARALLEL TO LT GA WALL
3/4" = 1'-0"



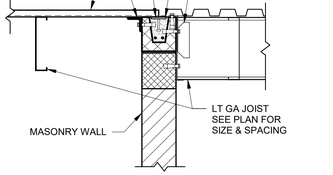
4 S3.00 TYPICAL SECT MOMENT FRAME COLUMN
3/4" = 1'-0"



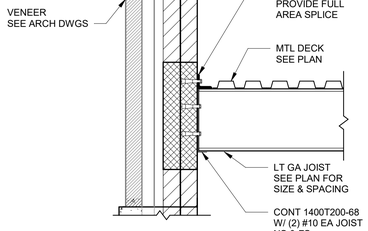
5 S3.00 TYPICAL SECT JOIST BEARING AT SPAN DIRECTION CHANGE
3/4" = 1'-0"



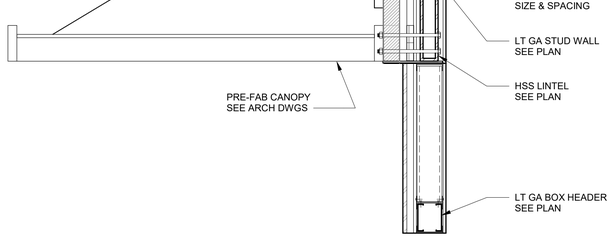
6 S3.00 BUILT-UP JOIST BEARING AT SPAN DIRECTION CHANGE
3/4" = 1'-0"



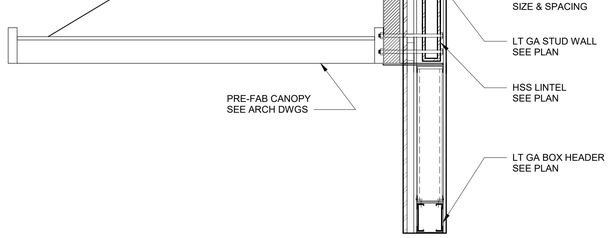
7 S3.00 TYPICAL SECT JOIST BEARING AT SPAN DIRECTION CHANGE
3/4" = 1'-0"



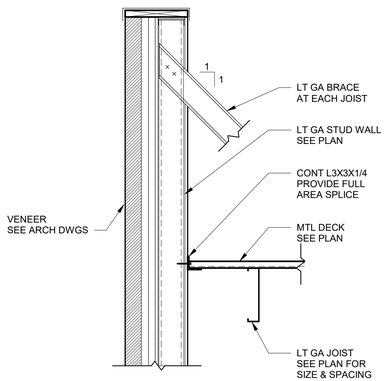
8 S3.00 TYPICAL SECT JOIST PERP TO MASONRY WALL
3/4" = 1'-0"



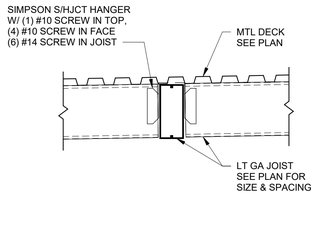
9 S3.00 TYPICAL SECT AT CANOPY
3/4" = 1'-0"



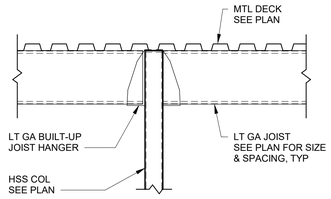
10 S3.00 TYPICAL SECT AT CANOPY JOIST PARALLEL
3/4" = 1'-0"



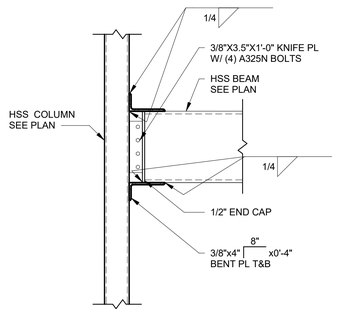
11 S3.00 TYPICAL SECT JOIST PARALLEL TO LT GA WALL
3/4" = 1'-0"



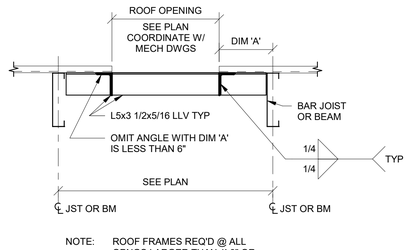
12 S3.00 TYPICAL JOIST CONN TO BUILT-UP JOIST
3/4" = 1'-0"



13 S3.00 TYPICAL BUILT-UP JOIST CONN TO HSS COL
3/4" = 1'-0"



14 S3.00 TYPICAL HSS MOMENT CONNECTION
3/4" = 1'-0"



NOTE: ROOF FRAMES REQ'D @ ALL OPNGS LARGER THAN 1'-0" OR AS NOTED

15 S3.00 TYPICAL ROOF OPENING DETAIL
3/4" = 1'-0"

TRIA ARCHITECTURE

KITCHEN CONSULTANT: edge associates inc. food service design
(P) 855.902.4422

CIVIL CONSULTANT: HR Green
(P) 800.728.7805

LANDSCAPE CONSULTANT: JSD
(P) 312.644.3379

STRUCTURAL CONSULTANT: Larson Engineering, Inc.
(P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES
VILLAGE GREEN CONCESSIONS
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER: 24-002
PROJECT MANAGER: SWL
DRAWN BY:
ISSUED FOR BID: 09/06/2024

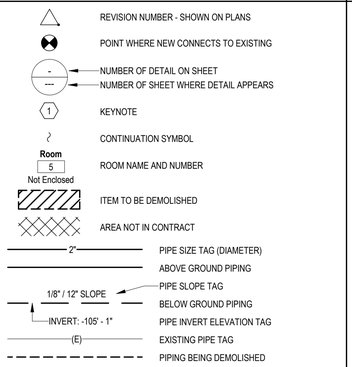
DATE | REVISION

FRAMING DETAILS

100% CD/IFB

S3.00

GENERAL MECHANICAL SYMBOLS



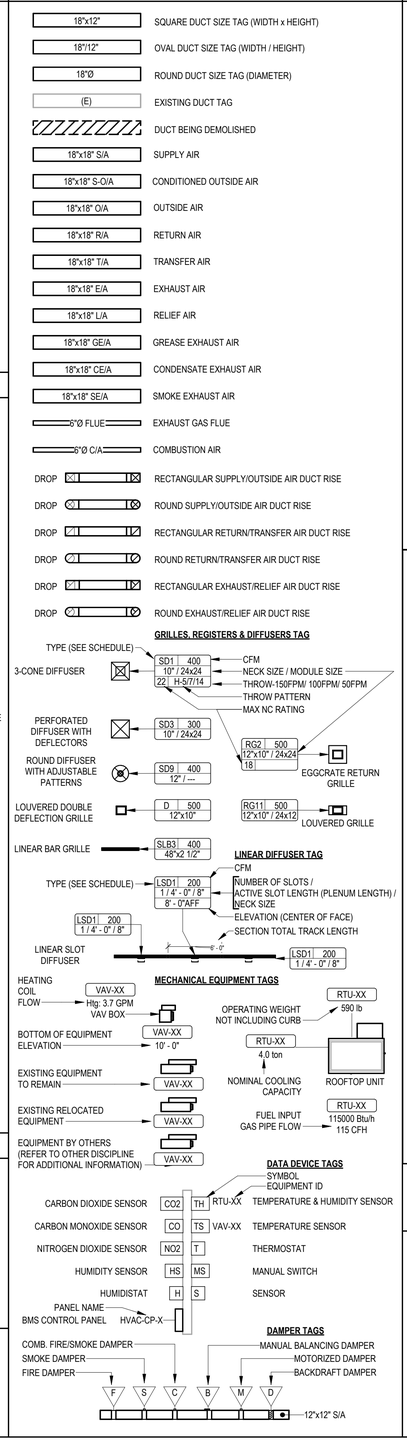
ABBREVIATIONS

Ø	ROUND	LVR	LOUVER
ABV	ABOVE	LWT	LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	M/A	MIXED AIR
AD	AREA DRAIN	MAX	MAXIMUM
ADD	ADDENDUM	MBH	ONE THOUSAND BTU PER HOUR
AFF	ABOVE FINISHED FLOOR	MCF	ONE THOUSAND CUBIC FEET
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MD	MOTORIZED DAMPER
ALT	ALTERNATE	MECH	MECHANICAL
AP	ACCESS PANEL	MFR	MANUFACTURER
ARCH	ARCHITECT/ARCHITECTURAL	MIN	MINIMUM
BFF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BLW	BELOW	MTR	MOTOR
BTU	BRITISH THERMAL UNITS	MUA	MAKE-UP/AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NOISE CRITERIA
CAP	CAPACITY	NC	NORMALLY CLOSED
CB	CATCH BASIN	NIC	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NO	NUMBER
CLG	CEILING	NO	NORMALLY OPEN
CO	CLEAN OUT	NTS	NOT TO SCALE
CW	COLD WATER	O	OXYGEN
D	DEGREE	O/A	OUTSIDE AIR
DB	DRY BULB	ORD	OVERFLOW ROOF DRAIN
DIA	DIAMETER	PD	PRESSURE DROP
DN	DOWN	PIV	POST INDICATOR VALVE
DW	DISTILLED WATER	PLBG	PLUMBING
EA	EACH	PRESS	PRESSURE
EAT	ENTERING AIR TEMPERATURE	PRV	PRESSURE REDUCING VALVE
ELEC	ELECTRICAL	PSI	POUNDS PER SQUARE INCH
EQUIP	EQUIPMENT	PSIG	POUNDS PER SQUARE INCH GAUGE
EWC	ELECTRIC WATER COOLER	PWR	POWER
EWT	ENTERING WATER TEMPERATURE	R	DUCT RISER
E/A	EXHAUST AIR	R/A	RETURN AIR
EXIST	EXISTING	RCP	RADIANT CEILING PANEL
F	DEGREES FAHRENHEIT	RD	ROOF DRAIN
FCO	FLOOR CLEAN OUT	REC	RECESSED
FD	FLOOR DRAIN	RED	REDUCER
FDC	FIRE DEPARTMENT CONNECTION	RH	RELATIVE HUMIDITY
FL	FLOOR	RL/A	RELIEF AIR
FO	FUEL OIL	RM	ROOM
FOV	FUEL OIL VENT	RPM	REVOLUTIONS PER MINUTE
FOR	FUEL OIL RETURN	RW	RAIN WATER
FOS	FUEL OIL SUPPLY	SF	SQUARE FOOT
FPM	FEET PER MINUTE	S/A	SUPPLY AIR
FS	FLOOR SINK	SAN	SANITARY
FT	FOOT/FEET	SF	SQUARE FOOT
FTR	FIN TUBE RADIATION	SD	SMOKE DAMPER
GAL	GALLON	SM	SURFACE MOUNT
GF	GAS-FIRED	SP	STANDPIPE
GC	GENERAL CONTRACTOR	SP	STATIC PRESSURE
GPM	GALLONS PER MINUTE	STM	STEAM
GW	GREASE WASTE	T	THERMOSTAT
HB	HOSE BIB	TD	TEMPERATURE DROP
HP	HORSE POWER	TDR	TRENCH DRAIN
HTG	HEATING	TEMP	TEMPERATURE
HTR	HEATER	TYP	TYPICAL
HW	HOT WATER	UG	UNDERGROUND
HYD	HYDRANT	VAC	VACUUM
ID	INDIRECT	V	VENT
IN	INCH	VAV	VARIABLE AIR VOLUME
INV	INVERT	VENT	VENTILATION
LB	POUND	VTR	VENT THROUGH ROOF
LB/HR	POUNDS PER HOUR	W	WASTE
LAT	LEAVING AIR TEMPERATURE	WB	WET BULB
LP	LOW PRESSURE	WCO	WALL CLEAN OUT
LPG	LIQUEFIED PETROLEUM GAS	WH	WALL HYDRANT

EQUIPMENT ABBREVIATIONS

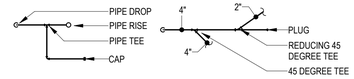
AC	AIR CONDITIONING UNIT	ET	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	EWH	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOILER	GI	GREASE INTERCEPTOR
CH	CHILLER	GRV	GRAVITY ROOF VENTILATOR
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT
CHWP	CHILLED WATER PUMP	PRV	POWER ROOF VENTILATOR
DBP	DOMESTIC WATER BOOSTER PUMP	RE	RETURN/EXHAUST FAN
DC	DUCT MOUNTED COIL	RTU	ROOFTOP UNIT
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP
EF	EXHAUST FAN	UH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	WH	WATER HEATER

HVAC SYMBOLS

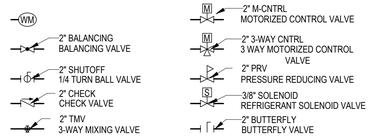


PIPING SYMBOLS

CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CD	CONDENSATE DRAINAGE
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
GWR	GEOTHERMAL WATER RETURN
GWS	GEOTHERMAL WATER SUPPLY
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
G	NATURAL GAS
PG	PROPANE GAS
REF-L	REFRIGERANT-LIQUID
REF-S	REFRIGERANT-SUCTION
REF-HG	REFRIGERANT-HOT GAS
STM	STEAM
CDR	CONDENSATE RETURN



PIPE ACCESSORY TAGS



PROJECT GENERAL NOTES

1. REMOVE ALL UNUSED PIPING, DUCTWORK AND ACCESSORIES FROM PREVIOUS STRUCTURE.
2. COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, AND EQUIPMENT TO PREVENT CONFLICTS.
3. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AS WELL AS THOSE WHICH CAN BE REASONABLY ANTICIPATED INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.
4. FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.
5. LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.
6. ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.
7. LOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS. TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT.
8. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL AS PRESCRIBED IN CSFM STANDARD 43-1 AND SHALL BE U.L. LISTED.
9. PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.
10. MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE, VISUAL INSPECTION OR HAND OPERATION. WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.
11. ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.
12. REFER TO HVAC SERIES DRAWINGS FOR GAS AND A.C. CONDENSATE DRAIN PIPING.
13. PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
14. FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.
15. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
16. LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED ON THE DRAWING, ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.
17. INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.
18. THE CONTRACTOR'S WORK SCHEDULE SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER.
19. PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL MECHANICAL EQUIPMENT, PLUMBING FIXTURES, AND DIFFUSERS.
20. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.
21. PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.

* NOTE *

ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

HVAC GENERAL NOTES

1. CONTRACTOR SHALL LOCATE THERMOSTATS AND TEMPERATURE SENSORS AT 5'-0" AFF, A MINIMUM OF 8" FROM LIGHT SWITCH.
2. REFER TO HVAC DRAWINGS FOR THERMOSTAT AND TEMPERATURE SENSOR LOCATIONS.
3. CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY FEDERAL, STATE, AND LOCAL CODES. CONDENSATE PIPING SHALL BE TYPE "L" COPPER.
4. ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE RATED FOR PRESSURE CLASS OF 2" W.G. UNLESS NOTED OTHERWISE.
5. COORDINATE THE EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES WITH NEW AND EXISTING LIGHTING.
6. PROVIDE DIFFUSERS AND REGISTERS WITH 4-WAY BLOW PATTERN UNLESS OTHERWISE NOTED.
7. PROVIDE A 4" HOUSEKEEPING PAD OR ROOF CURB APPROVED BY EQUIPMENT MANUFACTURER FOR EACH PIECE OF MECHANICAL EQUIPMENT. COORDINATE SIZES WITH MECHANICAL EQUIPMENT SELECTED.
8. THIS CONTRACTOR SHALL BE REQUIRED TO REPLACE FILTERS ON HVAC EQUIPMENT AFTER ALL DUST PRODUCING CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO THE FINAL PUNCH.

NATURAL GAS NOTES

1. CONTRACTOR SHALL COORDINATE LOCATION AND SIZE OF GAS METER WITH GAS UTILITY AND OWNER.
2. EACH PIECE OF GAS FIRED EQUIPMENT SHALL BE PROVIDED WITH A GAS PRESSURE REGULATING VALVE AND SHUT-OFF VALVE. VENT PIPING FROM PRV SHALL VENT TO THE OUTDOORS AND BE WEATHER AND INSECT PROOF.
3. PROVIDE EACH PIECE GAS FIRED EQUIPMENT SHALL BE PROVIDE WITH A 12" DIRT LEG.
4. ALL GAS PIPING SHALL BE SCHEDULE 40 STEEL PIPE, UNLESS OTHERWISE NOTED.
5. PRIOR TO INITIAL OPERATION, GAS LINES SHALL BE PRESSURE TESTED AT 1.5 TIMES THE RATED MAXIMUM PRESSURE BUT NOT LESS THAN 3PSIG. THE TEST DURATION SHALL NOT BE LESS THAN 1/2 HOUR FOR EACH 500 CUBIC FEET OF PIPE VOLUME OR AS NOTED PER LOCAL CODES.

HVAC SHEET INDEX

M0.00 MECHANICAL TITLE SHEET
M1.00 LEVEL 1 MECHANICAL PLAN
M1.10 ROOF MECHANICAL PLAN
M1.20 DUCT RISER DIAGRAM
M2.00 LEVEL 1 NATURAL GAS PIPING PLAN
M2.20 NATURAL GAS PIPING RISER DIAGRAM
M5.00 MECHANICAL DETAILS
M5.01 DUCTWORK DETAILS
M6.01 MECHANICAL SCHEDULES
M7.01 CAPTIVEAIRE SCHEDULES
M7.02 CAPTIVEAIRE SCHEDULES

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VILLAGE OF HOFFMAN ESTATES
VILLAGE GREEN CONCESSIONS
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER:	24-002
PROJECT MANAGER:	
DRAWN BY:	SLB / NSL

ISSUED FOR BID:	09/05/24
REVISION	DATE

MECHANICAL TITLE SHEET

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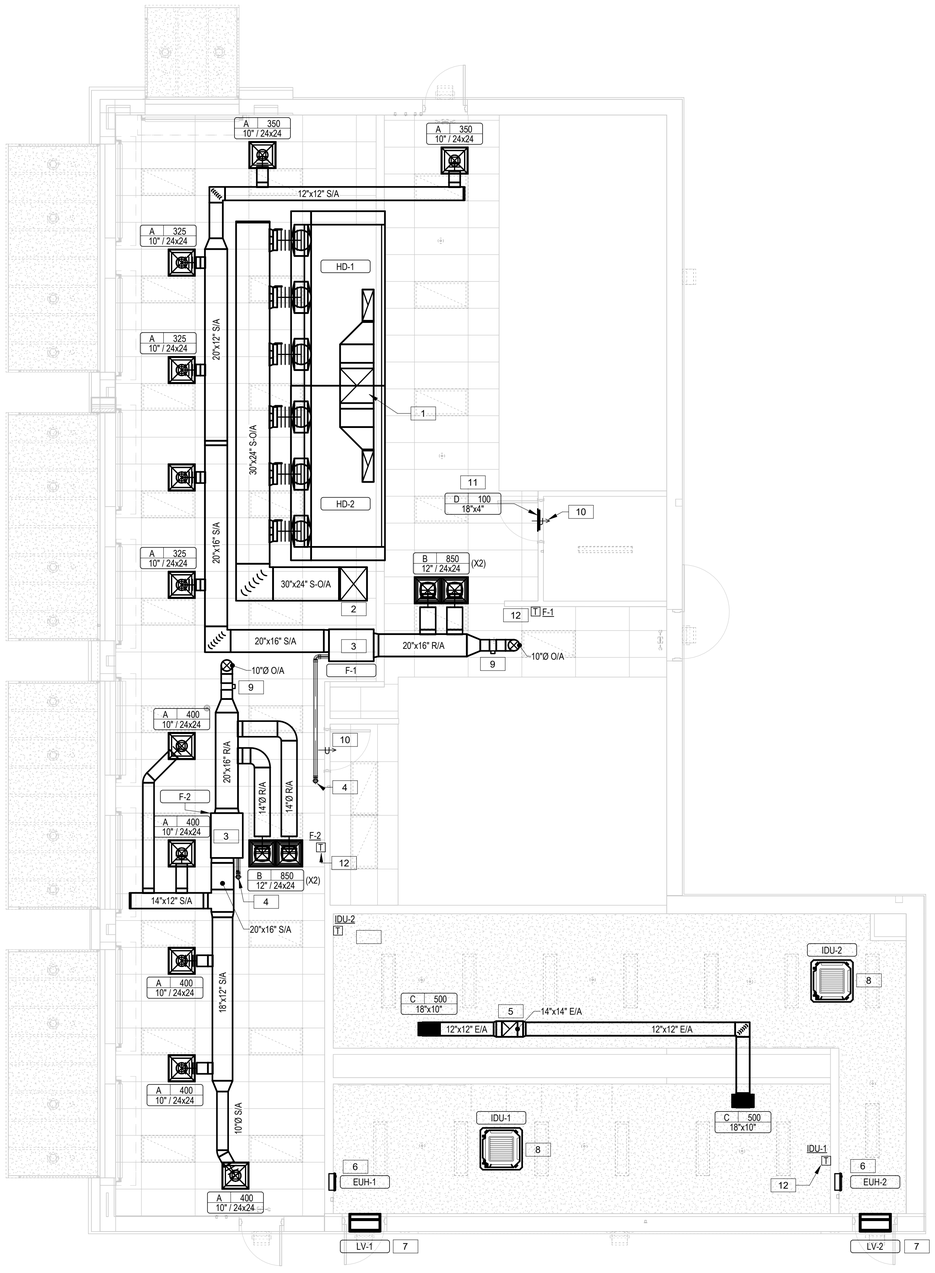
M0.00



HVAC SHEET NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE AND WORKING SYSTEM.
2. INSTALL, SUPPORT, & BRACE NEW DUCTWORK AND ACCESSORIES PER SMACNA GUIDELINES.
3. DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR SHALL MAKE ALLOWANCE FOR ANY INTERIOR LINING, INSULATION, ETC.
4. ALL NEW DUCT ELBOWS SHALL BE RADIUS TYPE. WHERE NECESSARY, CONTRACTOR MAY SUBSTITUTE MITERED ELBOWS WITH TURNING VANES.
5. PROVIDE FLAT BLADE MANUAL VOLUME DAMPERS AT ALL TERMINAL DUCT BRANCHES AND AS INDICATED.
6. INSTALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. ROOFTOP EQUIPMENT SHALL BE LOCATED NO CLOSER THAN 10'-0" FROM THE ROOF EDGE.
7. ALL PRIMARY CONDENSATE DRAIN PIPING SHALL BE INSULATED TO A MINIMUM THICKNESS OF 1/2" AND SHALL INCLUDE A VAPOR RETARDANT OUTSIDE THE INSULATION. SEAL ALL JOINTS AND PENETRATIONS.
8. COORDINATE ALL EXTERIOR PENETRATIONS INCLUDING ROOF PENETRATIONS WITH OTHER TRADES TO PROVIDE A COMPLETE AND FULLY WEATHER-PROOF INSTALLATION.
9. ALL TRANSFER DUCTWORK SHALL BE INTERNALLY LINED WITH MINIMUM 1/2" ACOUSTIC LINING.
10. CONTRACTOR SHALL ENGAGE A TESTING AND BALANCE FIRM CERTIFIED BY AABC TO PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM ACCORDING TO THE PROCEDURES CONTAINED IN AABC'S "NATIONAL STANDARDS.
11. FOR TESTING AND BALANCING HEATING, VENTILATING, AND AIR CONDITIONING SYSTEMS" AND PROVIDE TWO COPIES OF THE CERTIFIED TAB REPORTS.

KEYNOTES

	PROVIDE 7-DAY PROGRAMMABLE T-STAT TO CONTROL EQUIPMENT TAGGED. PROVIDE WITH LOCK BOX TO LIMIT PUBLIC ACCESS.
1	30x30 EXHAUST AIR RISER SERVING HD-1 AND HD-2 TO BE ROUTED TO KITCHEN EXHAUST FAN (KEF-1) LOCATED ON ROOF. HOOD CONNECTIONS SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFER TO CAPTIVEAIRE DRAWINGS FOR ADDITIONAL INFORMATION.
2	30x24 OUTSIDE AIR DUCT FROM GAS FIRED MAKE-UP AIR UNIT (MAU-1) ON ROOF TO BE ROUTED TO SUPPLY AIR PLENUM FOR KITCHEN HOODS (HD-1,2). HOOD CONNECTIONS SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFER TO CAPTIVEAIRE DRAWINGS FOR ADDITIONAL INFORMATION.
3	NEW HORIZONTALLY SUSPENDED DIRECT FIRED FURANCES (F-1,2) TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION. ROUTE 1/2" CONDENSATE AT MINIMUM SLOPE 1/8" PER LINEAL FOOT TO NEAREST OPEN SITE DRAIN.
4	ROUTE COMBUSTION AIR INTAKE AND EXHAUST AS SHOWN ON PLAN TO LOCATION WHERE ROOF PENETRATION MAINTAINS A MINIMUM OF 10'-0" FROM ALL OUTSIDE AIR INTAKES.
5	14x14 EXHAUST AIR RISER SERVING PUBLIC RESTROOMS TO BE ROUTED TO EXHAUST FAN (EF-1) LOCATED ON ROOF. INSTALL WITH BACKDRAFT DAMPER.
6	ELECTRIC UNIT HEATERS (EUH-1,2) TO BE INSTALLED RECESSED IN WALL AT ENTRANCE OF RESTROOMS. INSTALL WITH INTEGRALL THERMOSTAT SET TO 65 DEGREES
7	INTAKE LOUVERS (LV-1,2) SHALL BE INSTALLED ABOVE PUBLIC RESTROOM DOORS TO ALLOW 500 CFM OF FRESH AIR INTO RESTROOMS. PROVIDE MOTORIZED DAMPER INTERLOCKED WITH EF-1 SO WHEN EXHAUST FAN IS TURNED ON THE LOUVERS ARE OPEN, AND WHEN THE EXHAUST FAN IS OFF THE LOUVERS ARE CLOSED.
8	INSTALL CEILING RECESSED AC UNITS (IDU-1,2) IN EACH RESTROOM PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION. CORRESPONDING HEAT PUMPS INSTALLED ON ROOF (HP-1,2).
9	10" DIA. OUTSIDE AIR DUCT CONNECTED TO RETURN AIR DUCT OF FURNACES (F-1,2) SHALL BE ROUTED TO ROOF PENETRATION. PROVIDE MOTORIZED DAMPER IN OUTSIDE AIR DUCT TO RESTRICT FLOW WHEN FURNACES ARE NOT OPERATING.
10	PROVIDE 1/2" DOOR UNDERCUT TO ALLOW AIRFLOW PATH.
11	PROVIDE WALL MOUNTED TRANSFER GRILLE TO ALLOW AIRFLOW PATH. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION.
12	PROVIDE 7-DAY PROGRAMMABLE T-STAT TO CONTROL EQUIPMENT TAGGED. PROVIDE WITH LOCK BOX TO LIMIT PUBLIC ACCESS.

1 M1.00 LEVEL 1 HVAC CEILING PLAN
3/16" = 1'-0"

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VILLAGE OF HOFFMAN ESTATES
VILLAGE GREEN CONCESSIONS
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER:	24-002
PROJECT MANAGER:	
DRAWN BY:	SLB / NSL
ISSUED FOR BID:	09/05/24
REVISION	
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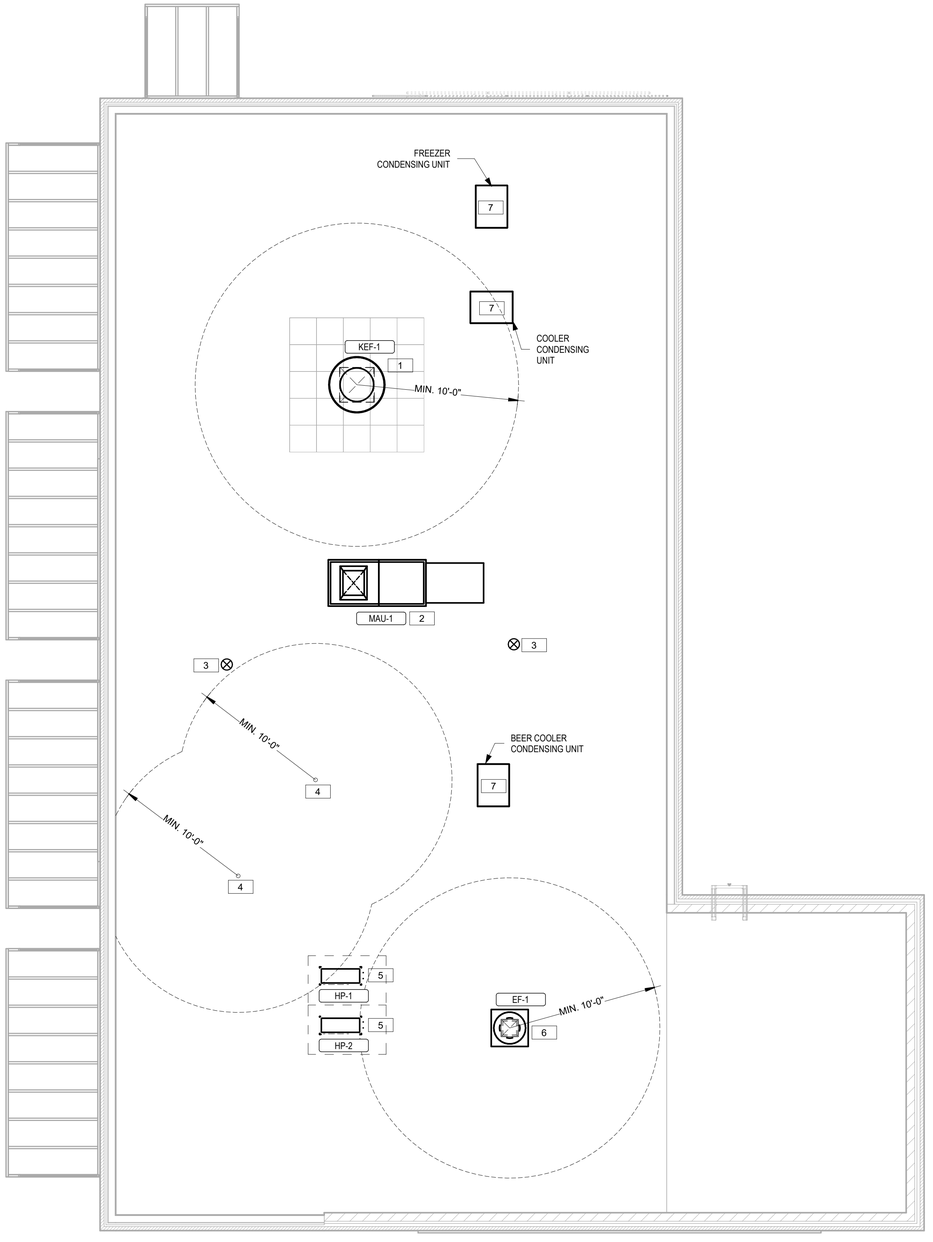
LEVEL 1 MECHANICAL PLAN

100%CD/IFB

M1.00



HVAC SHEET NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE AND WORKING SYSTEM.
2. INSTALL, SUPPORT, & BRACE NEW DUCTWORK AND ACCESSORIES PER SMACNA GUIDELINES.
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5. PROVIDE FLAT BLADE MANUAL VOLUME DAMPERS AT ALL TERMINAL DUCT BRANCHES AND AS INDICATED.
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11. FOR TESTING AND BALANCING HEATING, VENTILATING, AND AIR CONDITIONING SYSTEMS" AND PROVIDE TWO COPIES OF THE CERTIFIED TAB REPORTS.

KEYNOTES

1	KITCHEN EXHAUST FAN (KEF-1) AND CORRESPONDING ROOF CURB TO BE INSTALLED PER MANUFACTURERS INSTALLATION INSTRUCTIONS. MAINTAIN A MINIMUM OF 10'-0" FROM ALL OUTSIDE AIR INTAKES. REFER TO MECHANICAL SCHEDULES AND CAPTIVEAIRE DRAWINGS FOR ADDITIONAL INFORMATION.
2	DIRECT FIRED MAKE-UP AIR (MAU-1) AND CORRESPONDING ROOF CURB TO BE INSTALLED PER MANUFACTURERS INSTALLATION INSTRUCTIONS. REFER TO MECHANICAL SCHEDULES AND CAPTIVEAIRE DRAWINGS FOR ADDITIONAL INFORMATION.
3	10" DIA. OUTSIDE AIR DUCT PENETRATION FROM FURNACES BELOW (F-1,2). TERMINATE WITH GOOSENECK AND PROTECT OPENING WITH BIRDSCREENING.
4	COMBUSTION AIR INTAKE/EXHAUST PENETRATION THROUGH ROOF. COMBINE WITH CONCENTRIC VENTILATION KIT PRIOR PENETRATION. MAINTAIN A MINIMUM OF 10'-0" FROM ALL OUTSIDE AIR INTAKES.
5	HEAT PUMPS (HP-1,2) FOR RESTROOM AC UNITS TO BE INSTALLED ON ROOF PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION.
6	RESTROOM EXHAUST FAN (EF-1) AND CORRESPONDING ROOF CURB TO BE INSTALLED PER MANUFACTURERS INSTALLATION INSTRUCTIONS. MAINTAIN A MINIMUM OF 10'-0" FROM ALL OUTSIDE AIR INTAKES. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION.
7	CONDENSING UNITS FOR KITCHEN COOLER AND FREEZERS SELECTED BY KITCHEN CONSULTANT AN SHOWN FOR REFERENCE ONLY.

1 M1.10 ROOF MECHANICAL PLAN
3/16" = 1'-0"

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STRUCTURAL CONSULTANT: Larson Engineering, Inc. — (P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER: 24-002
PROJECT MANAGER:
DRAWN BY: SLB / NSL
ISSUED FOR BID: 09/05/24

DATE	REVISION

ROOF MECHANICAL PLAN

100%CD/IFB

M1.10

HVAC SHEET NOTES

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5. PROVIDE FLAT BLADE MANUAL VOLUME DAMPERS AT ALL TERMINAL DUCT BRANCHES AND AS INDICATED.
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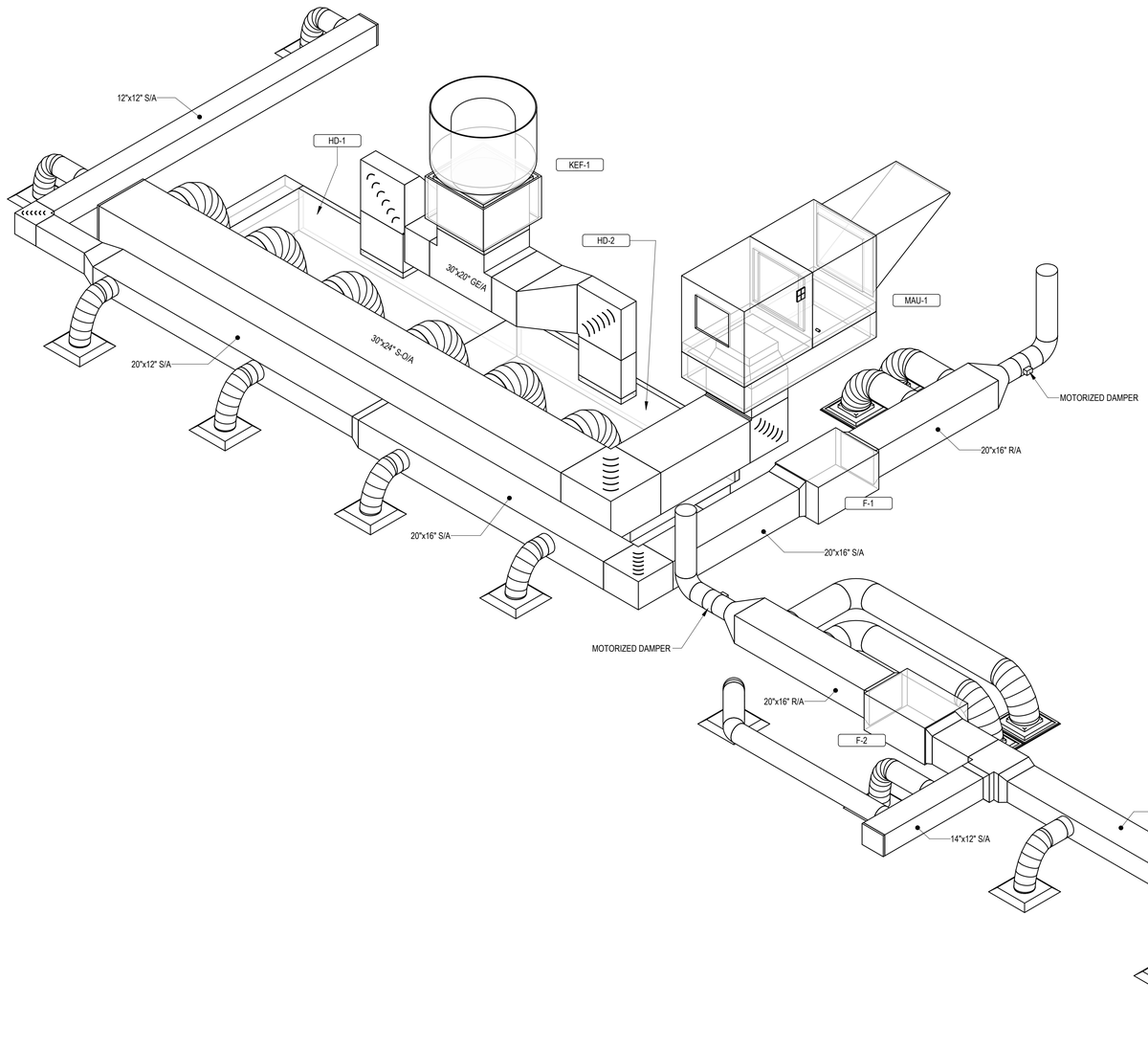

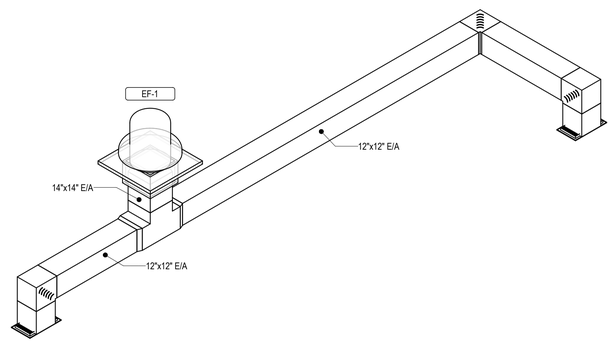

1 M1.20 DUCTWORK RISER DIAGRAM

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DUCT RISER DIAGRAM

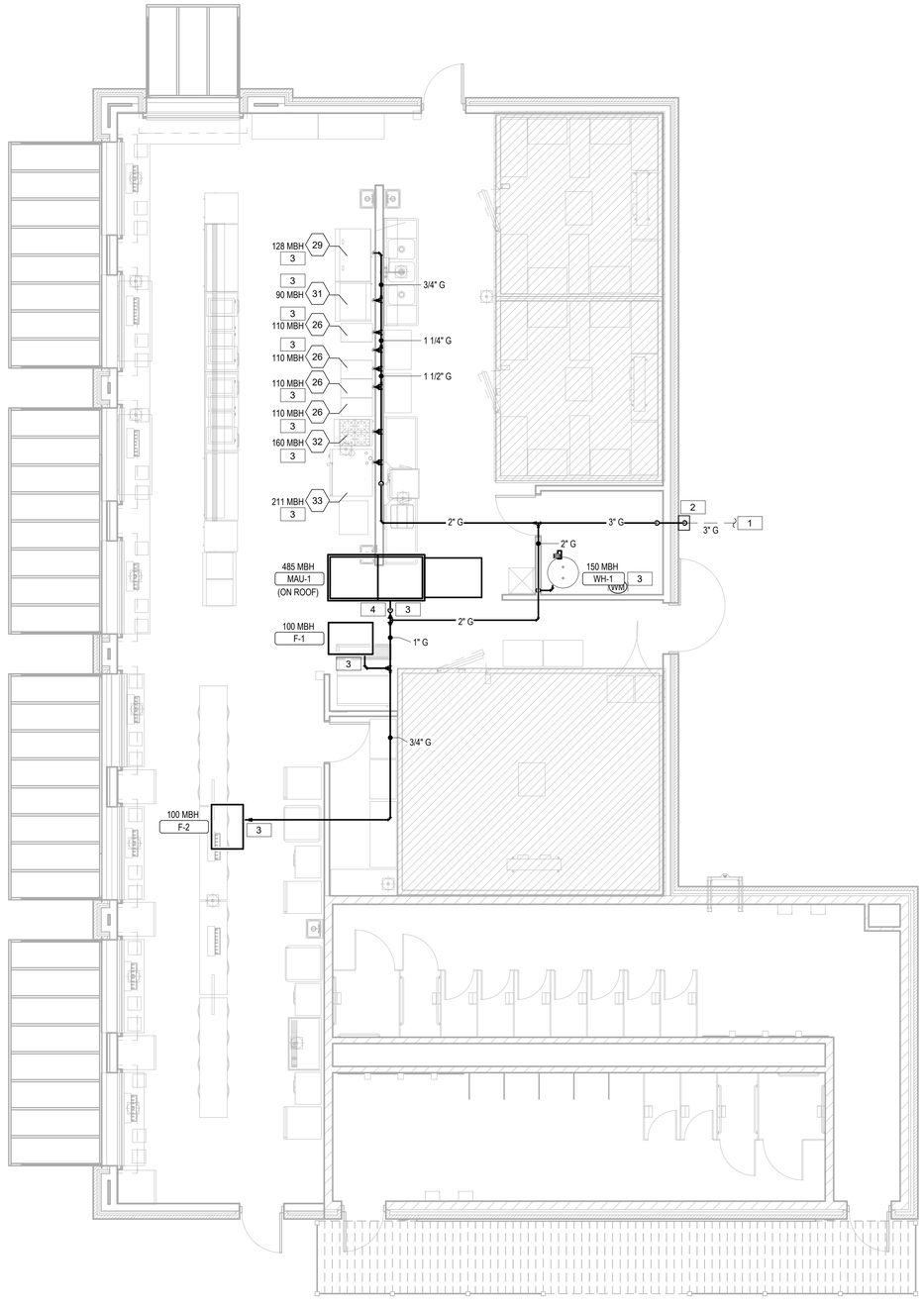
100%CD/IFB

M1.20

TOTAL GAS DEMAND LOAD			
TAG	**DESCRIPTION**	**CONN. SIZE**	**INPUT (MBH)**
MAU-1	MAKE-UP AIR UNIT	1"	485
F-1	FURNACE	1/2"	100
F-2	FURNACE	1/2"	100
WH-1	WATER HEATER	3/4"	150
26	FRYER	3/4"	110
26	FRYER	3/4"	110
26	FRYER	3/4"	110
26	FRYER	3/4"	110
29	48" GRIDDLE	3/4"	128
31	CHAR GRILL	3/4"	90
32	4 BURNER RANGE	3/4"	160
33	COMBI OVEN	3/4"	211
	TOTAL		1864

NOTES:

1. GAS PIPING SIZE IS BASED ON LONGEST RUN METHOD.
2. THE GAS SYSTEM SIZED FOR THE FURNACES IS SIZED FOR A TOTAL DEVELOPED LENGTH OF MAXIMUM 90'-0" FROM THE GAS METER AND AN INLET PRESSURE OF <2.0 PSI WITH 0.5"W.C. PRESSURE DROP (TABLE 402.4)
3. PIPE SIZES SHOWN BASED ON THE 2021 INTERNATIONAL FUEL/GAS CODE. VERIFY FIELD CONDITIONS FOR ACTUAL, DEVELOPED LENGTH AND POSSIBLE ADJUSTMENTS TO PIPE SIZES.



NATURAL GAS NOTES

1. COORDINATE NEW METER AND SERVICE LINE INSTALLATION WITH UTILITIES.
2. PROVIDE SHUT-OFF VALVE AND PRESSURE RUGLATING VALVE AT EACH GAS FIRED APPLIANCE.
3. ALL GAS PIPING SHALL BE ROUTED IN ABOVE CEILING UNLESS OTHERWISE SPECIFIED.
4. GAS PIPING SUPPORT SHALL BE FIELD LOCATED BY CONTRACTOR. MAXIMUM SPACING BETWEEN SUPPORTS SHALL BE 10 FT OR AS REQUIRED BY AHJ.
5. NEW GAS BRANCH TO EXISTING METER: BRANCH LONGEST LENGTH < 90 FT. BRANCH CONNECTED LOAD ~1864 MBH.

KEYNOTES

1	NEW 3" NATURAL GAS LINE TO SERVE BUILDING. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
2	PROPOSED LOCATION OF NEW GAS METER. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH UTILITY IN FEILD. 3" LINE SHALL PENETRATE INTO BUILDING AFTER METER AND BE ROUTED STRAIGHT UP INTO CEILING SPACE.
3	NATURAL GAS LINE TO SERVE EQUIPMENT CALLED OUT ON PLAN. ALL EQUIPMENT PIPING SHALL BE EQUIPPED WITH DIRT LEG AND MAINTENANCE SHUT-OFF VALVE. GAS REGULATOR SHALL BE INSTALLED WHERE REQUIRED TO BRING NATURAL GAS SERVICE PRESSURE TO REQUIRED OPERATIONAL PRESSURE OF EQUIPMENT. REFER TO GAS DEMAND LOAD FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL VERIFY CONNECTION REQUIREMENTS PRIOR TO ANY WORK.
4	1" NATURAL GAS LINE TO PENETRATE ROOF AND SERVE MAU-1.

1 M2.00 LEVEL 1 MECHANICAL PIPING PLAN
3/16" = 1'-0"

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VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER:	24-002
PROJECT MANAGER:	
DRAWN BY:	SLB / NSL
ISSUED FOR BID:	09/05/24

REVISION	DATE

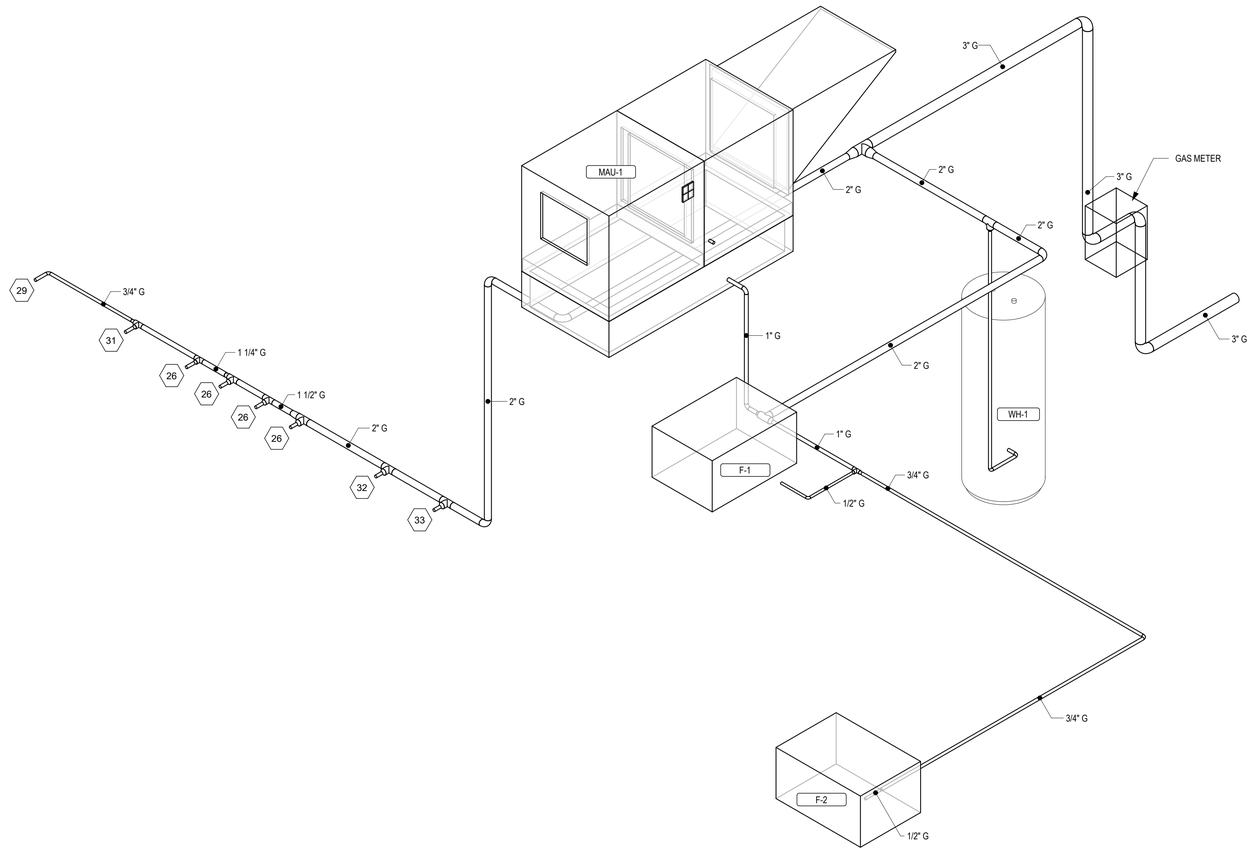
LEVEL 1 NATURAL GAS PIPING PLAN

100%CD/IFB

M2.00

NATURAL GAS NOTES

1. COORDINATE NEW METER AND SERVICE LINE INSTALLATION WITH UTILITIES.
2. PROVIDE SHUT-OFF VALVE AND PRESSURE RUGLATING VALVE AT EACH GAS FIRED APPLIANCE.
3. ALL GAS PIPING SHALL BE ROUTED IN ABOVE CEILING UNLESS OTHERWISE SPECIFIED.
4. GAS PIPING SUPPORT SHALL BE FIELD LOCATED BY CONTRACTOR. MAXIMUM SPACING BETWEEN SUPPORTS SHALL BE 10 FT OR AS REQUIRED BY AHJ.
5. NEW GAS BRANCH TO EXISTING METER: BRANCH LONGEST LENGTH < 90 FT. BRANCH CONNECTED LOAD ~1864 MBH.



1 M2.20 GAS RISER DIAGRAM

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062-065380
STATE OF ILLINOIS

DATE: 09.05.2024

TRIA ARCHITECTURE

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VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER:	24-002
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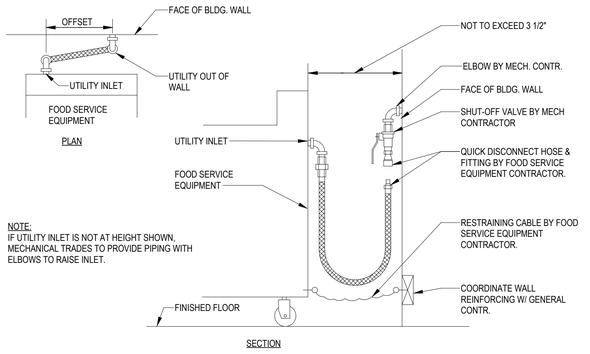
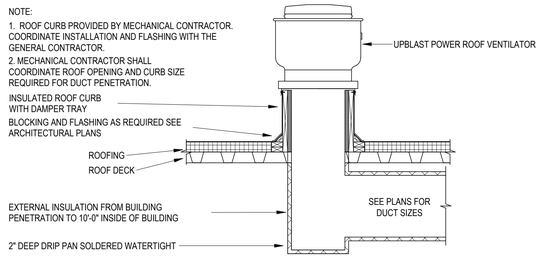
NATURAL GAS PIPING RISER DIAGRAM

100%CD/IFB

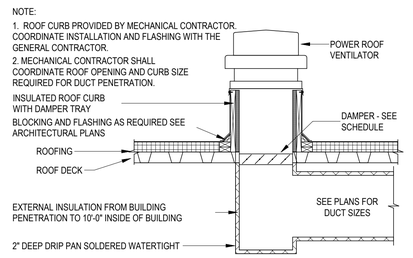
M2.20



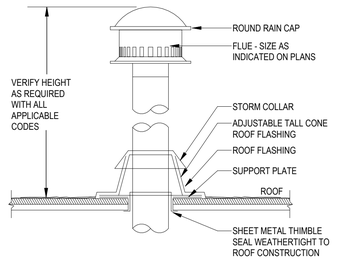
1 M5.00 FOOD SERVICE EQUIPMENT - QUICK DISCONNECT HOSE & FITTING DETAIL
1/8" = 1'-0"



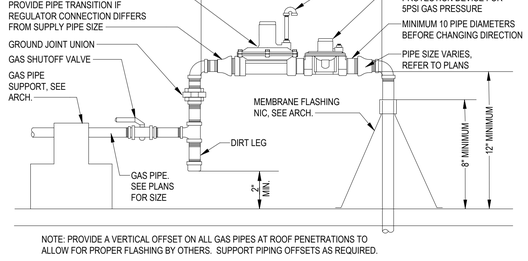
2 M5.00 UPBLAST POWER ROOF VENTILATOR DETAIL - GREASE
NO SCALE



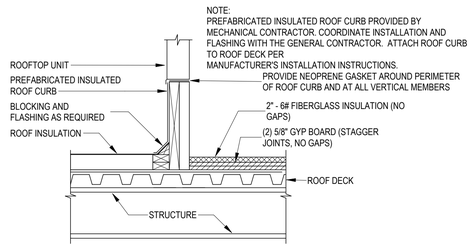
3 M5.00 POWER ROOF VENTILATOR DETAIL
NOT TO SCALE



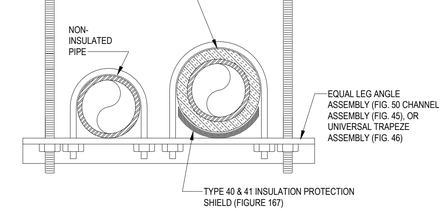
4 M5.00 FLUE VENT AND FLASHING DETAIL
NOT TO SCALE



5 M5.00 GAS PIPE ROOF PENETRATION DETAIL
NOT TO SCALE

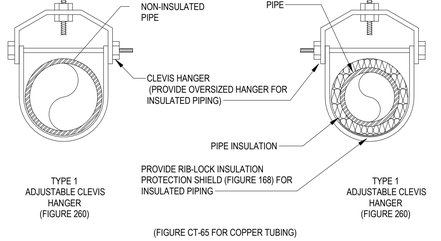


6 M5.00 ROOFTOP UNIT CURB INSTALLATION DETAIL
NOT TO SCALE



NOTES:
1. SIZE RODS, SPRING CUSHION, AND HORIZONTAL MEMBER APPROVED TO SATISFY LOAD REQUIREMENT WITH SAFETY FACTOR OF 5.
2. FIGURE NUMBERS ARE TYPICAL TO GRINNELL SUPPORT NUMBERS.

8X M5.00 TRAPEZE TYPE PIPE SUPPORT
NOT TO SCALE



(FIGURE CT-65 FOR COPPER TUBING)

NOTE:
FIGURE NUMBERS ARE TYPICAL TO GRINNELL SUPPORT NUMBERS.

7 M5.00 SINGLE PIPE CLEVIS HANGER
NOT TO SCALE

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STATE OF ILLINOIS
DATE: 09.05.2024

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VILLAGE OF HOFFMAN ESTATES
VILLAGE GREEN CONCESSIONS
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

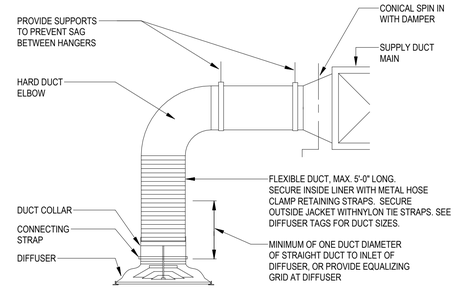
PROJECT NUMBER:	24-002
PROJECT MANAGER:	
DRAWN BY:	SLB / NSL
ISSUED FOR BID:	080524

DATE:
REVISION:

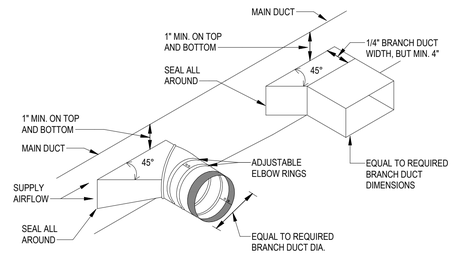
MECHANICAL DETAILS

100%CD/IFB

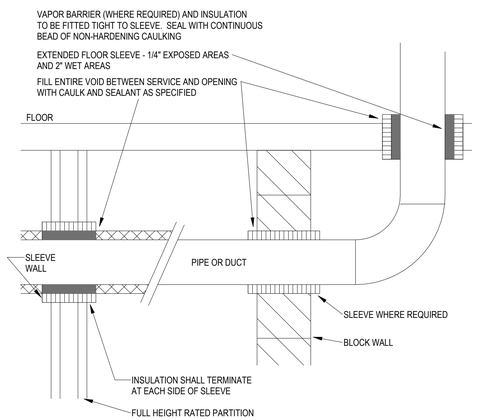
M5.00



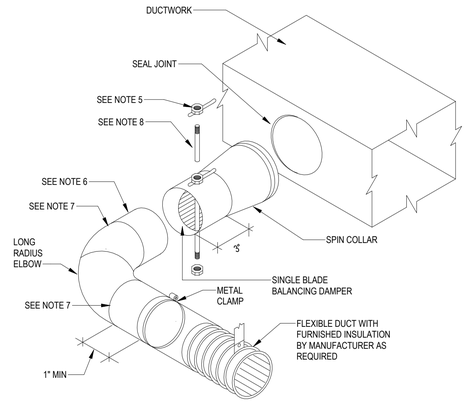
1 M5.01 DIFFUSER FLEXIBLE DUCT CONNECTION
NOT TO SCALE



2 M5.01 TYPICAL BRANCH TAKEOFF FITTING DETAIL
NOT TO SCALE



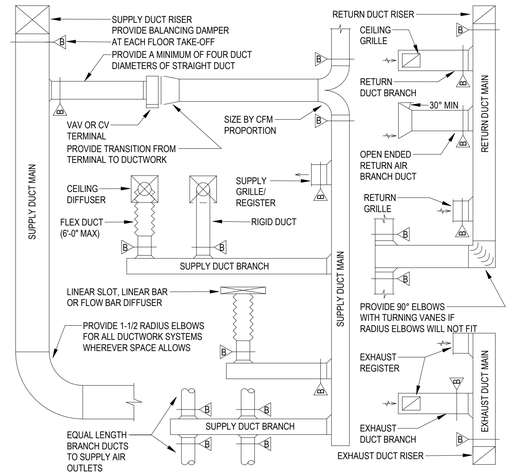
3 M5.01 DUCT OR PIPE WALL AND FLOOR PENETRATION DETAIL
NO SCALE



4 M5.01 SPIN COLLAR FLEXIBLE DUCT CONNECTOR WITH DAMPER AND WITH LONG RADIUS ELBOW
1/8" = 1'-0"

NOTES:
1. SUPPORT DUCTWORK AS REQUIRED.
2. BAND FLEX TO COLLAR 1/2" MINIMUM FROM OUTBOARD END OF COLLAR.
3. INSTALL SPIN COLLAR DAMPER IN OPEN POSITION; FINAL ADJUSTMENT BY TAB CONTRACTOR.
4. PULL FLEXIBLE DUCT INSULATION UP TO END OF SPIN COLLAR AT EDGE OF RECTANGULAR DUCTWORK; SEAL VAPOR BARRIER WITH GREY TAPE TO PREVENT MOISTURE MIGRATION.
5. PROVIDE EXTENSION RODS TO ACCOMMODATE INSULATION, PULL TO EDGE OF DUCTWORK AS REQUIRED AND SEAL TO EFFECT VAPOR BARRIER.
6. POP RIVET OR SHEET METAL SCREWS, MINIMUM 3 EACH AT 120 INTERVALS, CONNECTING STOVEPIPE TO COLLAR. ENSURE RIVETS OR SCREWS DO NOT INTERFERE WITH DAMPER.
7. TAPE AND SEAL ALL JOINTS TO PREVENT LEAKAGE.
8. INSTALL LOCKING QUADRANT AND HANDLE ON BOTTOM OF DUCT FOR EASY SERVICE (SHOWN ON TOP FOR EASE OF ILLUSTRATION ONLY).

NOTES:
1. REFER TO HVAC FLOOR PLANS FOR DUCT SIZES
2. REFER TO SCHEDULES FOR GRILLES, REGISTERS, DIFFUSERS AND TERMINAL SIZES AND TYPES
3. PROVIDE A MANUAL TYPE BALANCING DAMPER FOR EACH SUPPLY OUTLET AND RETURN INLET
4. ALL DUCT RUNOUTS TO DIFFUSERS SHALL BE THE SAME SIZE AS DIFFUSER NECK SIZE, UNLESS OTHERWISE NOTED
5. FLEX DUCT WILL NOT BE ALLOWED ON RETURN OR EXHAUST DUCTWORK SYSTEMS
6. PROVIDE 12" AIR CUSHION AT THE END OF EACH SUPPLY MAIN AND BRANCH DUCT
7. INDIVIDUAL BRANCH BALANCING DAMPERS NOT REQUIRED FOR SUPPLY OR EXHAUST REGISTERS



5 M5.01 DUCTWORK INSTALLATION DIAGRAM
NOT TO SCALE

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VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER:	24-002
PROJECT MANAGER:	
DRAWN BY:	SLB / NSL
ISSUED FOR BID:	09/05/24

REVISION	DATE

DUCTWORK DETAILS

100%CD/IFB

M5.01

MAKE UP AIR UNIT (MAU) SCHEDULE

TAG	AREA SERVED	HEATING - NATURAL GAS		SUPPLY FAN			ELECTRICAL			WEIGHT	MODEL	NOTES
		HEATING - NG - MBH INPUT	HEATING - NG - MBH OUTPUT	SUPPLY FAN - CFM	SUPPLY FAN - MIN OA CFM	SUPPLY FAN - MOTOR (H.P.)	ELECTRICAL - VOLTS/PH/HZ	ELECTRICAL - MCA	ELECTRICAL - MOCP			
MAU-1	KITCHEN	484.2	445.5	5800	5800	7.5	460/3/60	12	20	843	A3-D.500-24D	1

MAKE-UP AIR UNIT SCHEDULE NOTES:
1. REFER TO CAPTIVEAIRE DRAWINGS FOR ADDITIONAL INFORMATION

EXHAUST FAN (EF) SCHEDULE

TAG	AREA SERVED	LOCATION	CFM	E.S.P.	FAN RPM	DRIVE TYPE	FAN TYPE	ELECTRICAL		PLAN CODES OF EQUIP. TO INTERLOCK WITH	WEIGHT	MAKE / MODEL	NOTES
								ELECTRICAL - HP OR WATTS	ELECTRICAL - VOLTS/PH/HZ				
EF-1	RESTROOMS	ROOF	1000	0.1	778	Belt	Centrifugal	1/4 HP	460/3/60	TIMECLOCK	57	GREENHECK / GB-130	1, 2
KEF-1	HD-1,2	ROOF	5876	1.65	1049	-	-	5 HP	460/3/60	-	358	CAPTIVEAIR / DU240HFA	3

EXHAUST FAN SCHEDULE NOTES:
1. E.C. TO SUPPLY ALL 3Ø FAN MOTORS WITH MAGNETIC CONTACT STARTERS. ALL 1Ø FAN MOTORS TO BE SUPPLIED WITH INTERNAL DISCONNECTING MEANS AND AUTO RESET THERMAL PROTECTION.
2. ROOF MOUNTED EXHAUST FAN. PROVIDE WITH FACTORY CURB, 14" BUILT UP, AND BACKDRAFT DAMPER.
3. REFER TO CAPTIVEAIRE DRAWINGS FOR ADDITIONAL INFORMATION.

LOUVER (LV) SCHEDULE

TAG	AREA SERVED	SIZE	AIR FLOW - CFM	S.P.	FREE AREA	VELOCITY (FPM)	MATERIAL	DAMPER - VOLTS/PH/HZ	MAKE / MODEL	NOTES
LV-1	MENS RESTROOM	28x18x6	500	0.02	1.3	383	Aluminum	120/1/60	GREENHECK / ESD-635-28x18	1, 2, 3, 4
LV-2	WOMEN'S RESTROOM	28x18x6	500	0.02	1.3	383	Aluminum	120/1/60	GREENHECK / ESD-635-28x18	1, 2, 3, 4

LOUVER SCHEDULE NOTES:
1. FINAL COLOR AND FINISH TO BE SELECTED BY ARCHITECT.
2. PROVIDE LOUVERS WITH 1/2" X 1/2" BIRDSCREEN.
3. FURNISH AND INSTALL ACTUATOR FOR MOTORIZED DAMPER.
4. INTERLOCK LOUVER WITH ITS RESPECTIVE EXHAUST FAN SO THAT WHEN EF-1 IS ACTIVATED, LV-1,2 OPENS AND EF-1 STARTS.

Furnace (F) Schedule

TAG	AREA SERVED	HEATING - NG - MBH INPUT	HEATING - NG - MBH OUTPUT	SUPPLY FAN - CFM	SUPPLY FAN - MIN OA CFM	SUPPLY FAN - E.S.P.	SUPPLY FAN - MOTOR (H.P.)	ELECTRICAL - VOLTS/PH/HZ	ELECTRICAL - MCA	ELECTRICAL - MOCP	WEIGHT	MAKE / MODEL	NOTES
F-1	KITCHEN	100,000	93,000	1600	240	0.2	1	115/60/1	18.2	20	165	CARRIER / 59SC2E-100M211-22	1, 2
F-2	KITCHEN	100,000	93,000	1600	240	0.2	1	115/60/1	18.2	20	165	CARRIER / 59SC2E-100M211-22	1, 2

FURNACE SCHEDULE NOTES:
1. INSTALL ALL FURNACE UNITS FOLLOWING MANUFACTURER'S RECOMMENDATIONS. INCLUD FLEXIBLE CONNECTION BETWEEN FURNACE AND DUCTWORK, BALANCING DAMPERS, ETC.

ELECTRIC UNIT HEATER (EUH) SCHEDULE

TAG	LOCATION	HEATING DATA		ELECTRICAL		ENCLOSURE			MAKE / MODEL	NOTES
		HEATING DATA - KW	HEATING DATA - BTUH	ELECTRICAL - VOLTS/PH/HZ	ELECTRICAL - AMPS	HEIGHT	WIDTH	DEPTH		
EUH-1	MENS RESTROOM	4.8	16378	277/1/60	17.3	19 5/16"	15 3/4"	5"	QMARK / CWH3000	1, 2
EUH-2	WOMENS RESTROOM	4.8	16378	277/1/60	17.3	19 5/16"	15 3/4"	5"	QMARK / CWH3000	1, 2

ELECTRIC UNIT HEATER SCHEDULE NOTES:
1. ALL ELECTRIC UNIT HEATERS SHALL BE COMPLETE WITH FACTORY MOUNTED DISCONNECTS AND BUILT-IN THERMOSTATS W/ THERMAL CUT-OUT.
2. PROVIDE RECESSED MOUNT ENCLOUSRE. COORDINATE EXACT MOUNTING LOCATION WITH ARCHITECT.

GRILLES, REGISTERS, AND DIFFUSERS (GRD) SCHEDULE

ID	DESCRIPTION	MANUFACTURER	MODEL	QTY	SYSTEM	FACE SIZE	NECK			BLADE DESIGN					INSTALLATION	NOTES
							SIZE	WIDTH	HEIGHT	THICKNESS	SPACING	DEFLECTION ANGLE		ORIENTATION	BORDER TYPE	
												SINGLE	DOUBLE			
A	PLAQUE FACE DIFFUSER	Titus	OMNI	11	S/A	24x24	10"								TYPE 3 (LAY-IN)	1, 2, 3
B	PERFORATED DIFFUSER WITH DEFLECTORS	Titus	PAR	4	R/A	24x24	12"								TYPE 3 (LAY-IN)	1, 2, 3
C	LOUVERED FILTER GRILLE	Titus	355FS	2	E/A			18"	10"	1/8"	1/2"	35.0°		SHORT	TYPE 1 (SURFACE)	1, 2, 3
D	LOUVERED DOUBLE DEFLECTION GRILLE	Titus	300FL	1				18"	4"	1/8"	3/4"	0.0°	0.0°	DOUBLE-LONG	TYPE 1 (SURFACE)	1, 2, 3

GRILLES, REGISTERS, AND DIFFUSERS SCHEDULE NOTES:
1 FURNISH AND INSTALL VOLUME DAMPER FOR AIR FLOW BALANCING PURPOSES IN EACH DUCT TAKE-OFF TO A DIFFUSER, REGISTER OR GRILLE.
2. COORDINATE BORDER TYPES, PLASTER FRAMES, & MOUNTING METHODS WITH THE CEILING TYPE/WALL/FLOOR CONSTRUCTION AT EACH DIFFUSER, REGISTER, & GRILLE LOCATION.
3. FURNISH AND INSTALL COMMERCIAL DIFFUSERS, REGISTERS, AND GRILLES MANUFACTURED BY ONE OF THE FOLLOWING MANUFACTURERS: TITUS, PRICE, KRUEGAR, METALAIRE, OR NAILOR.

Indoor AC Unit (IDU) Schedule

TAG	AREA SERVED	LOCATION	ARRANGMENT	COOLING			HEATING	ELECTRICAL	WEIGHT	MAKE / MODEL
				COOLING - NOM TONS	MBH					
					TOTAL	SENSIBLE	HEAT PUMP MBH	ELECTRICAL - VOLTS/PH/HZ		
IDU-1	MENS RESTROOM	CEILING	4-WAY CASSETTE	3	36.96	27.27	23.48	POWERED BY HP-1	59.97	CARRIER / 40MBCAQ36XA3
IDU-2	WOMENS RESTROOM	CEILING	4-WAY CASSETTE	3	36.96	27.27	23.48	POWERED BY HP-2	59.97	CARRIER / 40MBCAQ36XA3

HEAT PUMP (HP) SCHEDULE

TAG	EQUIPMENT SERVED	LOCATION	COOLING		SEER	EER	HEATING - TOTAL (MBH)	HSPF	COP (17 DEGREES)	ELECTRICAL			WEIGHT	MAKE / MODEL	NOTES
			COOLING - TOTAL - MBH	COOLING - SENS. - MBH						VOLTS/PH/HZ	MCA	MOCP			
HP-1	IDU-1	ROOF	36.96	27.27	18	9.0	23.48	10.6	1.9	208/1/60	30	50	148.59	CARRIER / 38MBRCQ36AA3	1, 2, 3, 4
HP-2	IDU-2	ROOF	36.96	27.27	18	9.0	23.48	10.6	1.9	208/1/60	30	50	148.59	CARRIER / 38MBRCQ36AA3	1, 2, 3, 4

HEAT PUMP SCHEDULE NOTES:
1. INSTALL ALL HEAT PUMP UNITS FOLLOWING MANUFACTURER'S RECOMMENDATIONS.
2. FURNISH AND INSTALL WEATHERPROOF CONCRETE OR PLASTIC PAD FOR ALL UNITS. COORDINATE PADS PLACED ON THE GRADE WITH SNOW HEIGHTS.
3. HACR TYPE OVERCURRENT PROTECTION DEVICES, DISCONNECT SWITCHES, AND MOUNTED AND WIRED GFI RECEPTACLES ON A SEPARATE CIRCUIT WITH SEPARATE DISCONNECT SWITCHES, ARE FURNISHED AND INSTALLED BY EC.
4. FURNISH AND INSTALL UNITS WITH ANTI-SHORT-CYCLE PROTECTION, CRANKCASE HEATER, LIQUID AND SUCTION LINE SERVICE VALVES, FILTER/DRIER,

OUTSIDE AIR VENTILATION TABLE

ROOM # OR DESCRIPTION	OCCUPANCY DESCRIPTION*	AREA (SF)*	2021 IMC TABLE 403.3.1.1 VALUES					OA SUPPLY HVAC UNIT DATA		ROOM DATA					COMPLIES WITH IMC TABLE 403.3.1.1
			OCC LOAD FACTOR (OCC PER 1000 SF)*	NO. OF OCC (IF ** APPLIES, USE NEXT COLUMN)	ARCHITECTS SEATING COUNT	OA VENTILATION RATE (CFM/OCC)	AREA VENTILATION RATE (CFM/SQFT)	EQUIPMENT TAG	SUPPLY EQUIPMENT % OA	OUTSIDE AIR (OA)		EXHAUST AIR (EA)			
										ROOM SUPPLY SA (CFM)	ACTUAL OA DELIVERED BY HVAC UNIT*** (CFM)	TABLE 403.3.1.1 MIN REQ'D OA (CFM)	REQUIRED EA (CFM)	ACTUAL DELIVERED EA (CFM)	EQUIPMENT TAG	
100 - KITCHEN	Food and Bev. - Kitchens (cooking)	2623	20	53		7.5	0.12	MAU-1	100%	5285.4	5289	890.3	1836.1	5876	KEF-1	YES
								F-1,2	15%	3800	570					
101 - MECHANICAL ROOM	Unoccupied	71	0	0		0	0	F-1	15%	100	15	0.0	--	--	--	YES
102 - DRY STORAGE	Storage - Warehouses	71	0	0		0	0.06	F-1	15%	100	15	5.3	--	--	--	YES
103 - WOMENS RESTROOM	Public - Shower Room or Toilet Room	477	0	0		0	0	LV-2	100%	500	500	0.0	450	500	EF-1	YES
104 - MENS RESTROOM	Public - Shower Room or Toilet Room	358	0	0		0	0	LV-1	100%	500	500	0.0	450	500	EF-1	YES
									TOTAL CFM:		6889			6876		

AIR DISTRIBUTION	EFFECTIVENESS (Ez)
Ceiling supply of warm air and ceiling return	0.8

* - PER 2021 IMC, TABLE 403.3.1.1, REQUIRED OUTDOOR VENTILATION AIR.
** - PER ARCHITECT'S SEATING PLAN, EXCEPTION TO SECTION 403.3.1.1.
*** - BASED ON RTUAIR HANDLER OUTSIDE AIR PERCENTAGE

COMcheck Software Version COMcheckWeb

Mechanical Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: Hideaway Concessions
Location: Hoffman Estates, Illinois
Climate Zone: 5a
Project Type: New Construction

Construction Site:
5510 Prairie Stone Parkway
Hoffman Estates, Illinois 60192

Owner/Agent:

Designer/Contractor:
Nathan Lira
Larson Engineering Inc.
630-357-0540

Additional Efficiency Package(s)

Credits: 10.0 Required 0.0 Proposed

Mechanical Systems List

Quantity System Type & Description

2 F-1,2 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 100 kBtu/h
Proposed Efficiency = 93.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE
Fan System: FAN SYSTEM 1 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
FAN 1 Supply, Constant Volume, 1600 CFM, 1.0 motor nameplate hp, 1.00 fan energy index , fan exception: Part of code listed equipment

1 IDU-1,2 / HP-1,2 (Single Zone):
Split System Heat Pump
Heating Mode: Capacity = 23 kBtu/h,
Proposed Efficiency = 10.60 HSPF2, Required Efficiency = 7.50 HSPF2
Cooling Mode: Capacity = 36 kBtu/h,
Proposed Efficiency = 18.00 SEER2, Required Efficiency = 14.30 SEER2
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00

1 Water Heater:
Gas Storage Water Heater, Capacity: 100 gallons, Input Rating: 150 kBtu/h w/ Circulation Pump
Proposed Efficiency: 95.00 % Et, Required Efficiency: 80.00 % Et

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design 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 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist

Nathan Lira - Mechanical Engineer II — Name - Title
Signature
07/29/2024 — Date

Project Title: Hideaway Concessions
Data filename:
Report date: 07/29/24
Page 1 of 10

LICENSED PROFESSIONAL ENGINEER
JASON ANDEJESKI
062-065380
STATE OF ILLINOIS

DATE: 09.05.2024

Larson Engineering Inc.
1488 Bond Street, Suite 100
Naperville, Illinois 60563-6503
(P) 630.357.0540 (F) 630.357.0164
ILLINOIS LICENSE NO. 184-001442
LEIL Comm. No. # 24240047.000

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TRIA ARCHITECTURE

KITCHEN CONSULTANT: cafe associates inc. food service design — (P) 855.962.4422 — 161 N. KLOCK STREET, SUITE 21, SAVAGE, IL 60479

CIVIL CONSULTANT: JDC FirstGreen — (P) 800.728.7805 — 312 JEWETT DRIVE, LAKE ZURICH, IL 60047

LANDSCAPE CONSULTANT: JSD — (P) 312.644.3379 — 1835 E. 170TH AVENUE, SUITE 225, CEDT PLANES, ILLINOIS 60418

STRUCTURAL CONSULTANT: Larson Engineering, Inc. — (P) 630.357.0540 — 1488 BOND STREET, SUITE 100, NAPERVILLE, ILLINOIS 60563

VILLAGE OF HOFFMAN ESTATES
VILLAGE GREEN CONCESSIONS
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

DATE	REVISION

PROJECT NUMBER: 24-002
PROJECT MANAGER: SLB / NSL
DRAWN BY:
ISSUED FOR BID: 09/05/24

MECHANICAL SCHEDULES

100%CD/IFB

M6.01

FOR QUESTIONS, CALL THE
Chicago Foodservice Division
REGION 69
PHONE: (630) 377 - 2911
EMAIL: reg2@captiveaire.com

EXHAUST FAN INFORMATION - JOB#8668523

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	EF-1	1	DU24XHFA	CAPTIVEAIRE	5876	1.650	1049	ODP,PREMIUM	5.000	3.3290	3	460	6.9	1335 FPM	358	23

MUA FAN INFORMATION - JOB#8668523

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MOCP	WEIGHT (LBS)	SONES
2	MUA-1	1	A3-D-500-24D	24MP-3-MOD	A3-D-500	3500	5800	0.375	1246	ODP,PREMIUM	7.500	7.3570	3	460	9.6	12A	20A	843	10.8

GAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO	TAG	INPUT BTUh	OUTPUT BTUh	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY%
2	MUA-1	464251	445511	74°F	7 IN. W.C. - 14 IN. W.C.	NATURAL	92

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	EF-1	1	GREASE BOX
		1	FAN BASE CERAMIC SEAL - DUCRDXHSFA - INSTALLED AT PLANT - FOR GREASE DUCTS
		1	LOAD REACTOR MOUNTED IN FAN
		1	2 YEAR PARTS WARRANTY
2	MUA-1	1	SIZE 3 TEMPERED COMMERCIAL DOWN DISCHARGE FOR DIRECT DRIVE AHUS
		1	INLET PRESSURE GAUGE, 0-30"
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC
		1	BUTTERFLY MOD VALVE (OPTION FOR MOD SIZE 3 (1" MOD VALVE)
		1	5HP LOOSE GAS STRAINER 1"
		1	CANLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED
		1	MOTORIZED BACKDRAFT DAMPER FOR A3-D HOUSING - MEETS AMCA CLASS 1A RATING
		1	SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) - THREE PHASE ONLY
		1	LOAD REACTOR MOUNTED IN FAN
		1	2 YEAR PARTS WARRANTY

FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST				SUPPLY		
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	EF-1	YES						
2	MUA-1						YES	

CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	EF-1	48 LBS	CURB	31.500"W X 31.500"L X 24.000"H VENTED HINGED
2	# 2	MUA-1	84 LBS	CURB	30.000"W X 84.000"L X 20.000"H INSULATED

HMI SCHEDULE

UNIT NUMBER	HMI #	HMI LOCATION	TEMP AVERAGING	MODBUS ADDRESS
FAN #2	HMI #1 - UNIT HMI # 1	MOUNTED IN UNIT	NOT AVERAGED	55

FAN #1 DU24XHFA - EXHAUST FAN (EF-1)

FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL DISCONNECT.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH-HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST:
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DAMAGE OR DISTORTION TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST:
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS:

- GREASE BOX.
- FAN BASE CERAMIC SEAL - DUCRDXHSFA - INSTALLED AT PLANT - FOR GREASE DUCTS
- LOAD REACTOR MOUNTED IN FAN.
- 2 YEAR PARTS WARRANTY.

REVISIONS
DESCRIPTION | DATE

CAPTIVEAIRE
www.captiveaire.com
Chicago Foodservice Division
1125 Charleston Drive, SE, Cheektowaga, NY 14227 PHONE: (800) 417 - 2611 FAX: 919-518-7318 EMAIL: reg2@captiveaire.com

Village Greens - Fans
5510 Prairie Stone Parkway;
Hoffman Estates, IL, 60192

DATE: 6/20/2024
DWG.#: 6868523
DRAWN BY: WEM
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 1

FAN #2 A3-D-500-24D - HEATER (MUA-1)
1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 24" MIXED FLOW DIRECT DRIVE FAN AND 12" BURNER.
2. 5 SECTION CONSTRUCTION.
3. DOWN DISCHARGE - AIR FLOW RIGHT >>(EF)
4. DOWN DISCHARGE CONSTRUCTION FOR SIZE 3 DIRECT DRIVE AHUS.
5. GAS PRESSURE GAUGE, 0 TO +15 INCHES WC, 2.5" DIAMETER.
6. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC, 2.5" DIAMETER, 1/4" THREAD SIZE.
7. MANIFOLD PRESSURE GAUGE, -5 TO +15 INCHES WC, 4" DIAMETER.
8. 5HP LOOSE GAS STRAINER, TO BE INSTALLED UPSTREAM OF UNIT CONNECTION. 1" CONNECTION.
9. CANLINK BUILDING MONITORING SYSTEM - INTERNET OR CELLULAR CONNECTION REQUIRED - 24 WIRED ETHERNET CONNECTION OR A3-CELLULAR SERVICE - INCLUDES REV. 3 CCMIN MODULE, PLAN TO MODBUS CONVERTER, 3 FT CAT5 CABLE, AND 1 FT OF SHIELDED TWISTED PAIR.
10. MOTORIZED BACKDRAFT DAMPER 30" X 30" FOR SIZE 3 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT. STANDARD GALVANIZED CONSTRUCTION. 3/4" REAR FLANGE. LOW LEAKAGE. W/SPLIT ACTUATOR INCLUDED.
11. SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PREWIRE CONFIGURATION. THREE PHASE ONLY. SEPARATE 120VAC INPUT TO SUPPLY FAN. THIS 120V SIGNAL MUST BE RUN BY ELECTRICIAN FROM DCV TO MUA SWITCH.
12. MOUNT LOAD REACTOR IN FAN.
13. 2 YEAR PARTS WARRANTY. ALL BELTED DOOR ASSEMBLY (BURNER/BLOWER SECTION).
14. 2 YEAR PARTS WARRANTY.

"NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN MICA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT. RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. IMPROPER DUCTWORK CAN CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SYSTEM EFFECTS CAN DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 48" x 24".

SUPPLY SIDE HEATER INFORMATION:

WINTER TEMPERATURE = 1°F , TEMP. RISE = 74°F.
BTUh CALCULATED OFF ACTUAL AIR DENSITY.
INPUT BTUh AT ELEVATION OF 0 FT. = 464251.
INPUT BTUh AT ALTITUDE OF 787 FT. = 464511.
INPUT BTUh AT ALTITUDE OF 787 FT. = 464251.

DIRECT FIRED OFF LPG/PILOT PLATE ASSEMBLY

DIRECT FIRED BURNERS (Only Used Approved Burners)
DIRECT FIRED BURNERS (Only Used APPROVED EQUIPMENT) – COMBUSTION, MULTI-ADJUSTING PROFILE PLATES SHALL BE DESIGNED TO ADJUST THE AIR/GAS RATIO ACROSS THE FACE OF THE BURNER. THE BURNER SHALL BE ADJUSTABLE TO ACCOMMODATE CHANGES IN GAS HEATING VALUE AND SPECIFIC GRAVITY. THE BURNER SHALL BE CAPABLE OF MAINTAINING A MINIMUM TURNDOWN RATIO OF 10:1 WITHOUT ADJUSTMENT. DIRECT FIRED BURNERS SHALL BE EQUIPPED WITH A PILOT ASSEMBLY CONSISTING OF A SPARK IGNITION SYSTEM WITH FLAME ROD SENSOR. ALL PILOT GAS SHALL BE REGULATED TO MAINTAIN A CONSTANT SUPPLY PRESSURE REGARDLESS OF MAJOR GAS TRAIN PRESSURE CHANGES. ALL PILOT GAS SHALL BE PIPED FROM A POINT DOWNSTREAM OF THE MAIN GAS VALVE.

APPROVED BURNERS
DIRECT FIRED BURNER ASSEMBLY SHALL BE INCLUDED IN THE UNIT MFG. LISTING AND CARRY A MFG. COMPANY WARRANTY CONSISTENT WITH THE UNIT'S OVERALL WARRANTY. ALL BURNERS SHALL BE APPROVED BY THE MANUFACTURER.

BURNER CONSTRUCTION
DIRECT FIRED BURNER ASSEMBLY SHALL CONSIST OF THE FOLLOWING ITEMS:
-PROFILE PLATES SHALL HAVE BLADE TIES SET
-PROFILE PLATES SHALL BE ADJUSTABLE TO ALLOW FOR FLAME PLANE AT THE DISCHARGE OF THE BURNER.
-BURNER SHALL BE CAPABLE OF MAINTAINING A MINIMUM TURNDOWN RATIO OF 10:1 WITHOUT ADJUSTMENT.
-BURNER SHALL HAVE BEEN FACTORY TESTED AS ASSEMBLED.

FOR QUESTIONS, CALL THE

Chicago Facilities Division

Mike Ryan

PHONE: (630) 371 - 2811

EMAIL: mgt2@ourtowers.com

PATENT NUMBERS

AC-PSP (UNITED STATES) - US PATENT 7663602 B2

AC-PSP WALL (CANADA) - CA PATENT 2635509.

AC-PSP ISLAND (CANADA) - CA PATENT 2635550.

HOOD INFORMATION - JOB#6836878

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM						TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG.	
										WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP		END TO END	ROW
1	24-L	6DX NO-2-PSP-F	CAPTIVEAIRE	11' 9"	600 DEG	1	HEAVY	250	2938	10"	28"	4"		2938	1011	-1.144"	2600	430 SS WHERE EXPOSED	LEFT	ALONE
2	24-R	6DX NO-2-PSP-F	CAPTIVEAIRE	11' 9"	600 DEG	1	HEAVY	250	2938	10"	28"	4"		2938	1011	-1.144"	2600	430 SS WHERE EXPOSED	RIGHT	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)							
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM		ELECTRICAL	SWITCHES	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
												TYPE	SIZE	MODEL #	QUANTITY		
1	24-L	CAPTRATE SOLO FILTER	8	16"	16"	85% SEE FILTER SPEC	4	RECESSED ROUND	NO	LEFT	12"x16"x24"	TANK FS	4.0	DCV-1111	1 LIGHT 1 FAN	YES	1004 LBS
2	24-R	CAPTRATE SOLO FILTER	8	16"	16"	85% SEE FILTER SPEC	4	RECESSED ROUND	NO	RIGHT	12"x16"x24"	TANK FS	4.0			YES	1241 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	24-L	FIELD WRAPPER 18.00" HIGH FRONT, LEFT.
		BACKSPLASH 80.00" HIGH X 306.00" LONG 430 SS VERTICAL.
		BALANCE DAMPERS.
		RISER SENSOR INSTALL 6IN PLEN.
		LEFT VERTICAL END PANEL 2"" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
2	24-R	FIELD WRAPPER 18.00" HIGH FRONT, RIGHT
		BALANCE DAMPERS.
		RISER SENSOR INSTALL 6IN PLEN.
		RIGHT VERTICAL END PANEL 2"" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	INLET(S)							
			LENGTH	WIDTH	HEIGHT	TYPE	WIDTH	LENG	DIA	CFM
1	24-L	Front	153"	18"	6"		MUA	12"	28"	848
							MUA	12"	28"	848
							MUA	12"	28"	848
							MUA	12"	28"	853
2	24-R	Front	153"	18"	6"		MUA	12"	28"	865
							MUA	12"	28"	865

SPECIFICATION: CAPTIVE DREAM™ SOLO FILTER

THE CAPTIVE DREAM™ SOLO FILTER UTILIZES A UNIQUE DUAL STAGE MULTI-CYCLONIC, 4 UNIQUE STAGES OF DESIGN IN CONJUNCTION WITH A ELECTRIC WEAR RATE SENSOR, TO ACHIEVE A 85% EFFICIENCY @ 7 MICRONS.

TO SEE IS 2 ENGAGED STEEL CONSTRUCTION, AND SEES TO FIT WITH STANDARD 12INCH DEEP HOOD CHANNELS.

CAPTRATE SOLO FILTER CONSISTS OF STEEL HANDLES AND HOUSING DESIGNED TO FIT WITH STANDARD 12INCH DEEP HOOD CHANNELS.

THE CAPTRATE SOLO FILTER UTILIZES A UNIQUE DUAL CYCLONIC SYSTEM TO ACHIEVE 85% EFFICIENCY @ 7 MICRONS.

THE CAPTRATE SOLO FILTER CONSISTS OF 2 STEEL HANDLES AND A STEEL HOUSING DESIGNED TO FIT WITH STANDARD 12INCH DEEP HOOD CHANNELS. THE CAPTRATE SOLO FILTER UTILIZES A UNIQUE DUAL CYCLONIC SYSTEM TO ACHIEVE 85% EFFICIENCY @ 7 MICRONS.

THE CAPTRATE SOLO FILTER CONSISTS OF 2 STEEL HANDLES AND A STEEL HOUSING DESIGNED TO FIT WITH STANDARD 12INCH DEEP HOOD CHANNELS. THE CAPTRATE SOLO FILTER UTILIZES A UNIQUE DUAL CYCLONIC SYSTEM TO ACHIEVE 85% EFFICIENCY @ 7 MICRONS.

CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96
NSF
ETL LISTED 3054804-001 TO UL 710 & ULC710 STANDARDS.

ASSEMBLY INSTRUCTIONS

BOLTING ON 6 HEAVY DUTY SUPPORTS WITH 1/2" - 13 TPI GRADE 5 ZINNIBAR BOLTS, 1/2" GRADE 5 ZINNIBAR WASHERS AND 1/2" - 13 TPI GRADE 5 ZINNIBAR NUTS. 1/2" GRADE 5 ZINNIBAR STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 ZINNIBAR HEX NUTS. THE 6 HEAVY DUTY SUPPORTS ARE BOLTED TO THE 6 HEAVY DUTY HOOD HANGING SHELFS AND ABOVE STUD AND MACHINE SMARTRAIL UP OF EXPOSED THREADED BENCH IN BOTTOM HAS NUT. FORGE ALL HEX NUTS 1/2 OF FT LBS.

SECTION VIEW - MODEL 6DXND-2-PSP-F
HOOD - RT SHELF

PLAN VIEW - HOOD #1 (24-L)
11' 9.00" LONG 6DXND-2-PSP-F

PLAN VIEW - HOOD #2 (24-R)
11' 9.00" LONG 6DXND-2-PSP-F

CUSTOMER APPROVAL TO MANUFACTURE:

APPROVED AS NOTED
APPROVED WITH NO EXCEPTIONS
REVIEW AS NOTED AND RESUBMITT
SIGNATURE:
YOUR TITLE: DATE:

CAPTIVE-AIRE
Officially Licensed Vendor
Division
1120 Charleston Drive, St. Charles, IL 60174 PHONE: (630) 377 - 2811 FAX: 919/5983738 EMAIL: mgt2@ourtowers.com
www.captiveaire.com

REVISIONS

Village Green - Phase II_Hoods
5510 Prairie Stone Parkway,
Hoffman Estates, IL 60192

DATE: 6/20/2024
DWG.#: 6836878
DRAWN BY: WEM
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 1

FIRE SYSTEM INFORMATION - JOB#6836878

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1	25	TANK FS	4.0 4.0-6.0-24.0-2	20 85	82	FIRE CABINET LEFT FIRE CABINET RIGHT	LEFT, HOOD 1 RIGHT, HOOD 2

GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1	25	SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS

GAS VALVE TABLE

	MIN. INLET PRESSURE (IN W.C.)	MAX. INLET PRESSURE (IN W.C.)	FLOW AT 10 IN.C. DROP NATURAL GAS (CFH)	FLOW AT 1 IN.W.C. DROP PROPANE (CFH)						MOUNTING ORIENTATION	GAS VALVE PART NUMBER	STRAINER PART NUMBER	GAS VALVE/STRAINER
SC ELECTRICAL	4.0	14.0	1,000	1,700						VERTICAL UPRIGHT	2.000		

REMOTE MANUAL GAS VALVE IS REQUIRED AS PER 2021 IFC SECTION 904.12(A)(2). THE STRAINER IS MANDATORY IF EQUIPMENT'S DISTANCE MUST BE REDUCED AT THE MAKE UP

ELECTRICAL ABBREVIATIONS LIST

1P	1 POLE (2P, 3P, 4P, ETC.)	MCB	MAIN CIRCUIT BREAKER
A	AMPERE	MCC	MOTOR CONTROL CENTER
AC	ABOVE COUNTER	MDC	MAIN DISTRIBUTION CENTER
ACLG	ABOVE CEILING	MDP	MAIN DISTRIBUTION PANEL
ADO	AUTOMATIC DOOR OPENER	MFR	MANUFACTURER
AF	AMP FRAME	MFS	MAIN FUSED DISCONNECT SW
AFF	ABOVE FINISHED FLOOR	MH	MANHOLE
AFG	ABOVE FINISHED GRADE	MIC	MICROPHONE
AFI	ARC FAULT CIRCUIT INTERRUPTER	MIN	MINIMUM
		MISC	MISCELLANEOUS
AHU	AIR HANDLING UNIT	MLO	MAIN LUGS ONLY
AL	ALUMINUM	MMS	MANUAL MOTOR STARTER
ALT	ALTERNATE	MOA	MULTIOUTLET ASSEMBLY
AMP	AMPERE	MSP	MOTOR STARTER PANELBOARD
AMPL	AMPLIFIER	MSBD	MAIN SWITCHBOARD
ANNUN	ANNUNCIATOR	MT	MOUNT
APPROX	APPROXIMATELY	MT.C	EMPTY CONDUIT
AQ-STAT	AQUASTAT	MTS	MANUAL TRANSFER SWITCH
ARCH	ARCHITECT, ARCHITECTURAL	MTR	MOTOR, MOTORIZED
AS	AMP SWITCH	N.C.	NORMALLY CLOSED
AT	AMP TRIP	NEC	NATIONAL ELECTRICAL CODE
ATS	AUTOMATIC TRANSFER SWITCH	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
AUTO	AUTOMATIC		
AUX	AUXILIARY	NFDS	NON-FUSED SAFETY DISCONNECT SWITCH
AV	AUDIO VISUAL		
AWG	AMERICAN WIRE GAUGE	NIC	NOT IN CONTRACT
BATT	BATTERY	NL	NIGHT LIGHT
BD	BOARD	N.O.	NORMALLY OPEN
BLDG	BUILDING	NPF	NORMAL POWER FACTOR
BMS	BUILDING MANAGEMENT SYSTEM	NTS	NOT TO SCALE
C	CONDUIT	OH	OVERHEAD
CAB	CABINET	OL	OVERLOADS
CAT	CATALOG	PA	PUBLIC ADDRESS
CATV	CABLE TELEVISION	PB	PULL BOX OR PUSHBUTTON
CB	CIRCUIT BREAKER	PE	PNEUMATIC ELECTRIC
CCTV	CLOSED CIRCUIT TELEVISION	PED	PEDESTAL
CKT	CIRCUIT	PF	POWER FACTOR
CLG	CEILING	PH	PHASE
COMB	COMBINATION	PIV	POST INDICATING VALVE
CMPR	COMPRESSOR	PNL	PANEL
CONN	CONNECTION	PP	POWER POLE
CONST	CONSTRUCTION	PR	PAIR
CONT	CONTINUATION OR CONTINUOUS	PRI	PRIMARY
CONTR	CONTRACTOR	PROJ	PROJECTION
CONV	CONVECTOR	PRV	POWER ROOF VENTILATOR
CP	CIRCULATING PUMP	PT	POTENTIAL TRANSFORMER
CRT	CATHODE-RAY TUBE	PVC	POLYVINYL CHLORIDE (CONDUIT)
CT	CURRENT TRANSFORMER	PWR	POWER
CTR	CENTER	QUAN	QUANTITY
CU	COPPER	RCPT	RECEPTACLE
DCP	DOMESTIC WATER CIRCULATING PUMP	REQD	REQUIRED
DEPT	DEPARTMENT	RM	ROOM
DET	DETAIL	RSC	RIGID STEEL CONDUIT
DIA	DIAMETER	RTU	ROOF TOP UNIT
DISC	DISCONNECT	SC	SURFACE CONDUIT
DIST	DISTRIBUTION	SEC	SECONDARY
DN	DOWN	SHT	SHEET
DPR	DAMPER	SIM	SIMILAR
DS	SAFETY DISCONNECT SWITCH	S/N	SOLID NEUTRAL
DT	DOUBLE THROW	SPEC	SPECIFICATION
DWG	DRAWING	SPKR	SPEAKER
EC	ELECTRICAL CONTRACTOR	SP	SPARE
ELEC	ELECTRIC, ELECTRICAL	SR	SURFACE RACEWAY
ELEV	ELEVATOR	SS	STAINLESS STEEL
ELU	EMERGENCY LIGHTING UNIT	SSW	SELECTOR SWITCH
EM	EMERGENCY	S/S	STOP/START PUSHBUTTONS
EMS	ENERGY MANAGEMENT SYSTEM	STA	STATION
EMT	ELECTRICAL METALLIC TUBING	STD	STANDARD
EP	ELECTRIC PNEUMATIC	SURF	SURFACE MOUNTED
EQUIP	EQUIPMENT	SW	SWITCH
EWC	ELECTRIC WATER COOLER	SWBD	SWITCHBOARD
EXIST	EXISTING	SYM	SYMMETRICAL
EXH	EXHAUST	SYS	SYSTEM
EXP	EXPLOSION PROOF	TEL	TELEPHONE
FA	FIRE ALARM	TEL/DATA	TELEPHONE/DATA
FABP	FIRE ALARM BOOSTER POWER SUPPLY PANEL	TERM	TERMINAL
		TL	TWIST LOCK
FACP	FIRE ALARM CONTROL PANEL	TR	TAMPER RESISTANT
FCU	FAN COIL UNIT	T-STAT	THERMOSTAT
FIXT	FIXTURE	TTC	TELEPHONE TERMINAL CABINET
FLR	FLOOR	TV	TELEVISION
FLUOR	FLUORESCENT	TVTC	TELEVISION TERMINAL CABINET
FU	FUSE	TYP	TYPICAL
FUDS	FUSED SAFETY DISCONNECT SWITCH	UC	UNDER COUNTER
GA	GAUGE	UE	UNDERGROUND ELECTRICAL
GAL	GALLON	UG	UNDERGROUND
GALV	GALVANIZED	UH	UNIT HEATER
GC	GENERAL CONTRACTOR	UT	UNDERGROUND TELEPHONE
GEN	GENERATOR	UTIL	UTILITY
GFI	GROUND FAULT CIRCUIT INTERRUPTER	UV	ULTRAVIOLET
GFP	GROUND FAULT PROTECTOR	V	VOLT
GND	GROUND	VA	VOLT-AMPERES
GRS	GALVANIZED RIGID STEEL (CONDUIT)	VDT	VIDEO DISPLAY TERMINAL
GYP BD	GYPSUM BOARD	VERT	VERTICAL
HOA	HANDS-OFF-AUTOMATIC SWITCH	VFD	VARIABLE FREQUENCY DRIVE
HORIZ	HORIZONTAL	VOL	VOLUME
HP	HORSEPOWER	W	WATT
HPF	HIGH POWER FACTOR	W/	WITH
HT	HEIGHT	WG	WIRE GUARD
HTG	HEATING	WH	WATER HEATER
HTR	HEATER	W/O	WITHOUT
HV	HIGH VOLTAGE	WP	WEATHERPROOF
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	XFMR	TRANSFORMER
		XFR	TRANSFER
IC	INTERRUPTING CAPACITY		
IG	ISOLATED GROUND		
IMC	INTERMEDIATE METAL CONDUIT		
INCAND	INCANDESCENT	∠	ANGLE
IR	INFRARED	@	AT
I/W	INTERLOCK WITH	▲	DELTA
J-BOX	JUNCTION BOX	'	FEET
KV	KILOVOLT	"	INCHES
KVA	KILOVOLT-AMPERE	#	NUMBER
KVAR	KILOVOLT-AMPERE REACTIVE	Ø	PHASE
KW	KILOWATT	C	CENTER LINE
KWH	KILOWATT HOUR	P	PLATE
LOC	LOCATE OR LOCATION		
LT	LIGHT		
LTG	LIGHTING		
LTNG	LIGHTNING		
LV	LOW VOLTAGE		
MAX	MAXIMUM		
MAG.S	MAGNETIC STARTER		
M/C	MOMENTARY CONTACT		
MC	MECHANICAL CONTRACTOR		

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
	LIGHTING FIXTURES, TYPICAL, RECTANGULAR FILLED CIRCLES INDICATE RECESSED, OPEN CIRCLES INDICATE SURFACE DIAGONAL LINE INDICATES LENSED OUTER DOTS INDICATE SUSPENDED
	LIGHTING FIXTURES, TYPICAL, ROUND CENTER DOT INDICATES PENDANT DIAGONAL LINE INDICATES LENSED CHEVRON INDICATES WALL WASH
	WALL-MOUNTED FIXTURES, TYPICAL
	STRIP FIXTURE
	DIRECTIONAL LIGHT, TRACK, FLOOD
	LINEAR LIGHT, TAPE LIGHT
	EMERGENCY LIGHTING UNIT, CEILING-MOUNTED, INTEGRAL BATTERY
	EMERGENCY LIGHTING UNIT, CEILING-MOUNTED, REMOTE BATTERY
	EMERGENCY LIGHTING UNIT, WALL-MOUNTED, INTEGRAL BATTERY
	EMERGENCY LIGHTING UNIT, WALL-MOUNTED, REMOTE BATTERY
	EXIT LIGHT, CEILING-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION
	EXIT LIGHT, WALL-MOUNTED, SHADING AND ARROWS INDICATE FACES AND DIRECTION
	EXIT/ELU COMBO
	POLE/AREA LIGHTS
	POST-TOP AREA LIGHT
	BOLLARD LIGHT
	DIAGONAL HATCH INDICATES LIGHT ON A CRITICAL CIRCUIT
	SOLID HATCH INDICATES LIGHT ON AN EMERGENCY OR LIFE SAFETY CIRCUIT
S	SINGLE POLE SWITCH
S3	3-WAY SWITCH
S4	4-WAY SWITCH
SK	KEYED SWITCH
SP	SWITCH W/PILOT
SD	DIMMER SWITCH
SM	OCCUPANCY SENSOR W/ MANUAL SWITCH
ST	TIMER SWITCH
STD	TIME DELAY SWITCH
STC	TIME CONTROL SWITCH
FP	FIRE ALARM PULL STATION
FB	FIRE ALARM BELL
FH	FIRE ALARM HORN W/STROBE
FS	FIRE ALARM SPEAKER W/STROBE
FBS	FIRE ALARM BELL W/STROBE
FC	FIRE ALARM CHIME W/STROBE
	FIRE ALARM DOOR HOLDER
	FIRE ALARM DOOR CLOSER
FR	FIRE ALARM SHUT DOWN RELAY
	SPRINKLER FLOW SWITCH
	SPRINKLER VALVE TAMPER SWITCH
	THERMAL DETECTOR
S	DUCT SMOKE DETECTOR
Z	CEILING SMOKE DETECTOR

SYMBOL	DESCRIPTION
	SINGLE RECEPT.
	1 DOOR REFRIGERATORECEPT.
?	(DESIGNATES SPECIFIC MOUNTING HEIGHT) DUPLEX RECEPT.
GFI	GFI DUPLEX RECEPT. (FEED THROUGH)
GFI WP	GFI WEATHERPROOF RECEPT.
	SPLIT DUPLEX RECEPT.
	DUPLEX ISOLATED GROUND RECEPT.
	DUPLEX RECEPT. ON EMERG. CIRCUIT
	FLOOR DUPLEX RECEPT.
CLNG	CEILING DUPLEX RECEPT.
	FOURPLEX RECEPT.
	FOURPLEX RECEPT. ON EMERG. CIRCUIT
	240V RECEPTACLE
	RECEPT. ON CORD REEL
	SPECIAL RECEPT.
J	JUNCTION BOX
J	FLOOR JUNCTION BOX
J CLNG	CEILING JUNCTION BOX
PS - D2	MULTIOUTLET ASSEMBLY
M	COMB. MOTOR STARTER (FUSED)
	SAFETY DISC. SW. (NON-FUSED)
	SAFETY DISC. SW. (FUSED)
R	RELAY
	PUSH BUTTON
T	THERMOSTAT
H	HUMIDISTAT
P	POWER POLE (OPEN OFFICE STYLE)
	SURGERY SERVICE COLUMN
	STATIC GROUND RECEPTACLE
P	UTILITY SERVICE POWER POLE
XX-1	MOTOR
XX-1	IDENTITY (SEE SCHEDULE)
EXISTING TO REMAIN: XX-1	RELOCATED: XX-1
XX-1	DEMOLISHED: XX-1
T1	TRANSFORMER
	BUS DUCT W/ PLUG IN DISCONNECT CABLE TAP BOX

SYMBOL	DESCRIPTION
	TELEPHONE OUTLET
	FLOOR TELEPHONE OUTLET
2V2D	VOICE/DATA OUTLET # OF VOICE AND # OF DATA OUTLETS. FOR EXAMPLE 1V2D = 1 VOICE, 2 DATA
	FLOOR DATA OUTLET
CLNG	CEILING DATA OUTLET
M	MICROPHONE OUTLET
CATV	CATV OUTLET
TV	TV OUTLET
V	VOLUME CONTROL
	DOOR BELL
	DOOR BUZZER
	DOOR CHIME
D	DOOR SIGNAL
	AUTO DOOR PUSH PAD
ES	ELECTRIC STRIKE
ML	MAGNETIC LOCK
CL	COMBINATION LOCK
DC	DOOR CONTACT
CR	CARD READER
SK	SECURITY KEYPAD
MD	MOTION DETECTOR
N	NURSE CALL EMERG. STATION
N	NURSE CALL CODE BLUE STATION
N	NURSE CALL DUTY STATION
N	NURSE CALL STAFF STATION
N	NURSE CALL PATIENT STATION
N -X0 1	NURSE CALL DOME LIGHT (1-COLOR)
N -X0 2	NURSE CALL DOME LIGHT (2-COLORS)
N -X0 4	NURSE CALL DOME LIGHT (4-COLORS)

ELECTRICAL SYMBOL NOTES

S3 / 1d — LIGHTING FIXTURE TAG DESCRIPTORS:
TOP VALUE: FIXTURE TYPE ID.
BOTTOM VALUE, NUMBER: CIRCUIT NUMBER, REFER TO DRAWINGS FOR PANEL.
BOTTOM VALUE, LOWERCASE LETTER: SWITCH DESIGNATION.
ABSENCE OF A SWITCH ID INDICATES FIXTURE IS CONTROLLED BY THE ONLY SWITCH IN THE SPACE.
"x" IN PLACE OF THE SWITCH ID INDICATES NIGHT LIGHT, UNSWITCHED.

EXW1 / 1 — EXIT LIGHTS. STEM INDICATES WALL MOUNTING. NO STEM INDICATES CEILING MOUNTING. SHADED AREA INDICATES ILLUMINATED FACE(S). ARROW INDICATES DIRECTIONAL ARROW ON ILLUMINATED FACE(S). THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. EXAMPLE: THE WALL MOUNTED EXIT LIGHT TYPE "E1" WITH SINGLE FACE AND DIRECTIONAL ARROW IS CONNECTED TO CIRCUIT 1.

1d — DEVICES. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. THE SWITCH DESIGNATION IS INDICATED BY A LOWER CASE LETTER. EXAMPLE: SPLIT DUPLEX RECEPTACLE IS CONNECTED TO CIRCUIT 1 AND ONE RECEPTACLE OUTLET IS CONTROLLED BY SWITCH "d".

S d — THE CONTROL DEVICE DESIGNATION IS INDICATED BY A LOWER CASE LETTER. EXAMPLE: SINGLE POLE SWITCH "d" TO CONTROL LIGHTING FIXTURES INDICATED BY "d".

S D e — WALL BOX DIMMER WITH SIZE AS INDICATED AT DEVICE. EXAMPLE: 600 WATT WALL BOX DIMMER TO CONTROL LIGHTING FIXTURES INDICATED BY "e". SEE SPECIFICATIONS FOR WATTAGE IF NOT INDICATED.

ELEC-1 / 2,4 — SPECIAL CONNECTIONS. THE EQUIPMENT IS INDICATED BY A NUMBER IN A CIRCLE. SEE THE MOTOR AND EQUIPMENT SCHEDULE FOR THE LOAD DESCRIPTION AND TYPE OF CONNECTION. THE CIRCUIT DESIGNATION IS INDICATED BY NUMBER(S) ADJACENT TO THE SYMBOL. EXAMPLE: EQUIPMENT NO. ELEC-1; 1 PHASE CONNECTION TO CIRCUITS 2, 4.

PANELBOARDS. PANELBOARD DOORS MAY BE SHOWN TO INDICATE OPENING SIDE OF RECESSED PANELBOARDS. SEE PANELBOARD IDENTIFICATION FOR DESIGNATION CODES.

FLOOR CLEARANCE AREA

XX-1 — MOTOR CONNECTIONS. THE MOTOR IS INDICATED BY A NUMBER WITHIN OR CHARACTERS ADJACENT TO THE MOTOR SYMBOL. SEE THE MOTOR AND EQUIPMENT SCHEDULE FOR THE MOTOR DESCRIPTION AND ELECTRICAL REQUIREMENTS.

T1 — TRANSFORMERS. THE TRANSFORMER TYPE IS INDICATED BY A NUMBER FOLLOWING THE UPPER CASE LETTER "T". SEE THE TRANSFORMER SCHEDULE OR THE SINGLE LINE DIAGRAM FOR THE TRANSFORMER DESCRIPTION AND REQUIREMENTS. EXAMPLE: TRANSFORMER TYPE "T1".

CONDUIT IN CEILING, FLOOR OR WALL AS REQUIRED BY FIELD CONDITIONS

CONDUIT IN FLOOR

#12 / #10 — CONDUIT SHOWN WITHOUT SLASH MARKS SHALL CONTAIN 1 # 12 CONDUCTOR PER PHASE, NEUTRAL, AND GROUND IN 1/2" CONDUIT UNLESS SPECIFIC EQUIPMENT REQUIRES A DIFFERENT SIZE.
CONDUIT SHOWN SHALL CONTAIN 1 # 10 CONDUCTOR PER PHASE IN ELECTRICAL CODE SIZED MINIMUM CONDUIT UNLESS A CONDUCTOR AND CONDUIT SIZE IS SHOWN ADJACENT.

P4N-102 / 1, 3, 5 — HOME RUN TO BRANCH CIRCUIT PANELBOARD. THE PANELBOARD DESIGNATION IS SHOWN ADJACENT TO THE HOME RUN ARROW AS A NUMERATOR AND THE CIRCUIT DESIGNATION IS SHOWN AS THE DENOMINATOR. CIRCUIT BREAKER SIZES (AMPS/NUMBER OF POLES) ARE SHOWN IN THE PANELBOARD SCHEDULE WITH THE CORRESPONDING PANELBOARD AND CIRCUIT DESIGNATION. EXAMPLE: HOME RUN TO PANELBOARD P4N-102; CIRCUITS 1, 3, 5.

GRAPHICAL REPRESENTATION OF PHASING, TYPICAL FOR ALL SYMBOLS.

EXISTING TO REMAIN
EXISTING TO BE REMOVED
NEW
ITEM TO BE REMOVED
AREA NOT IN CONTRACT

REVISION NUMBER - SHOWN ON PLANS

NUMBER OF DETAIL ON SHEET
NUMBER OF SHEET WHERE DETAIL APPEARS

1 — KEYED NOTE (SEE SCHEDULE)

Room / 6 / Not Enclosed — ROOM NAME AND NUMBER

PANELBOARD IDENTIFICATION

P4N-102

1. EQUIPMENT DESIGNATION:
L = LIGHTING
P = POWER
D = DISTRIBUTION
S = SWITCHBOARD
M = MOTOR CONTROL CENTER
R = RELAY PANEL

2. VOLTAGE DESIGNATION:
1 = 120/240V - 1PH
2 = 240V - 3PH
3 = 208Y/120V - 3PH
4 = 480Y/277V - 3PH
5 = 120/208 - 1PH
6 = SPECIAL

3. SYSTEM DESIGNATION:
N = NORMAL
E = EMERGENCY
C = POWER CONDITIONED
U = UNINTERRUPTIBLE POWER SOURCE

4. FLOOR DESIGNATION:
B = BASEMENT
G = GROUND
1 = FIRST FLOOR
2 = SECOND FLOOR
ETC.

5. PANEL NO. DESIGNATION:
01 = PANELBOARD #1
02 = PANELBOARD #2
03 = PANELBOARD #3
ETC.

ELECTRICAL GENERAL NOTES

A. CONDUCTORS OPERATING AT 50 VOLTS OR GREATER SHALL BE IN RACEWAY. RACEWAY WITHIN THE STRUCTURE ABOVE THE FLOOR SLAB SHALL BE METAL. RACEWAY BELOW THE FLOOR SLAB AND UNDERGROUND RACEWAY OUTSIDE THE STRUCTURE SHALL BE PVC.

B. LOW VOLTAGE CABLES OR CONDUCTORS OPERATING AT LESS THAN 50 VOLTS SHALL BE IN METAL RACEWAY WHERE INSTALLED WITHIN WALLS OR INACCESSIBLE SPACES. LOW VOLTAGE CABLES MAY BE RUN IN CABLE TRAY WHERE NOTED. LOW VOLTAGE CABLES MAY BE RUN IN CABLE SUPPORT HOOKS ABOVE ACCESSIBLE CEILINGS WHERE NOTED. LOW VOLTAGE CABLE SHALL BE PLENUM RATED IN PLENUM SPACES.

B. LOW VOLTAGE CABLES OR CONDUCTORS OPERATING AT LESS THAN 50 VOLTS SHALL BE IN METAL RACEWAY. LOW VOLTAGE CABLES MAY BE RUN IN CABLE TRAY WHERE NOTED. LOW VOLTAGE CABLE SHALL BE PLENUM RATED IN PLENUM SPACES.

C. COORDINATE LOCATIONS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND DETAILS. ARCHITECTURAL ELEVATIONS AND DETAILS TAKE PRECEDENCE OVER LOCATIONS SHOWN ON ELECTRICAL DRAWINGS.

D. PROVIDE CABLE OR CONDUIT AND WIRE AS REQUIRED TO ACHIEVE CIRCUITING SHOWN. SIZE CONDUCTORS PER NEC AMPACITY AND WIRE FILL CRITERIA. PROVIDE DEDICATED NEUTRAL AND GROUND CONDUCTORS FOR CIRCUITING ,UNLESS NOTED OTHERWISE. INCREASE BRANCH CIRCUIT AND/OR FEEDER CONDUCTORS INCLUDING EQUIPMENT GROUNDING CONDUCTORS PROPORTIONALLY FOR NO MORE THAN 3% VOLTAGE DROP ON BRANCH CIRCUITS AND 2% ON FEEDERS PER ENERGY CODE.

E. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE INSTALLATION OF ELECTRICAL SYSTEMS AND THOSE REQUIRING ELECTRICAL CONNECTIONS TO MAINTAIN NEC REQUIRED CLEARANCES, INCLUDED BY NOT LIMITED TO AREAS ABOVE ACCESSIBLE CEILINGS.

F. COORDINATE WITH OTHER TRADES FOR PROPER INSTALLATION OF EQUIPMENT. CONSULT THE DRAWINGS OF OTHER TRADES OR CRAFTS TO AVOID CONFLICTS WITH EQUIPMENT, ETC. CONFLICTS SHALL BE RESOLVED PRIOR TO ROUGH-IN AND AT NO ADDITIONAL COST TO THE OWNER.

G. LEAVE THE SITE CLEAN AND READY FOR OCCUPANCY. REMOVE DIRT, DEBRIS, EMPTY CARTONS, TOOLS, CONDUIT AND WIRE SCRAPS AND MISCELLANEOUS SPARE EQUIPMENT AND MATERIALS USED IN THIS DIVISION OF THE WORK DURING CONSTRUCTION. COMPONENTS SHALL BE FREE OF DUST, GRIT AND FOREIGN MATERIALS AND LEFT AS NEW BEFORE FINAL ACCEPTANCE OF WORK.

H. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

I. PERFORM WORK TO COMPLY WITH THE STANDARD PRACTICES FOR GOOD WORKMANSHIP PUBLISHED BY NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION (NECA). COMPLY WITH THE LATEST ENFORCED EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), LOCAL CODES, AMENDMENTS, AND ORDINANCES.

J. FIELD COORDINATE FINAL MECHANICAL AND EQUIPMENT LOCATIONS ALONG WITH CONNECTION REQUIREMENTS AND CONTROL WIRING PRIOR TO ROUGH-IN. ADJUST CORRESPONDING CIRCUIT BREAKER RATINGS AND BRANCH CIRCUITING ACCORDINGLY.

K. ELECTRICAL WORK SHALL BE PERFORMED UNDER THE SUPERVISION OF A LICENSED MASTER ELECTRICIAN. PROCURE PERMITS AND LICENSES AND PAY FEES ASSOCIATED WITH THIS WORK.

L. MATERIALS FURNISHED FOR THIS PROJECT SHALL BE NEW, COMMERCIAL GRADE, FREE OF DEFECTS, AND LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY UNO.

M. PROVIDE COMPLETE OPERATION & MAINTENANCE MANUAL INCLUDING APPROVED SUBMITTAL DRAWINGS, WARRANTY INFORMATION FOR PRODUCT SUPPLIED,AND MANUFACTURES OPERATION AND MAINTENANCE INSTRUCTIONS.

N. THE CONTRACTOR IS RESPONSIBLE FOR MAKING FINAL WIRING TERMINATIONS TO PRE-INSTALLED RECEPTACLES IN OFFICE FURNITURE. CONTRACTOR IS RESPONSIBLE FOR WIRING AND INSTALLING VOICE/DATA DEVICES IN OFFICE FURNITURE. COORDINATE PLACEMENT OF DEVICES WITH FURNITURE LAY-OUT.

O. SECURITY SYSTEM TO BE PROVIDED UNDER SEPARATE CONTRACT. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO PROVIDE CONDUIT PROVISIONS, BACK BOXES, ROUGH-INS, SLEEVES AND POWER TO HEAD END EQUIPMENT FOR EXACT REQUIREMENTS PRIOR TO START OF WORK.

P. CONDUIT AND WIRE SHALL NOT BE INSTALLED BELOW FLOOR SLAB UNLESS INDICATED ON PLAN BY DASHED CONDUIT.

Q. CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING ELECTRICAL ITEMS SHOWN ON DRAWINGS EXCEPT FOR ITEMS LISTED IN NOTE 'R' BELOW.

R. TV OUTLETS, VOLUME CONTROLS, NURSE CALL DOME LIGHTS, NURSE CALL DEVICES, TELEPHONE OUTLETS, DATA OUTLETS, AND FIRE ALARM DEVICES SHALL CONSIST OF A BACK BOX WTIH CONDUIT STUBBED ABOVE THE ACCESSIBLE CEILING, SEE STUB UP DETAIL.VERIFY SIZE OF BACK BOX REQUIRED WITH DEVICE TO BE INSTALLED. LOCATE BACK BOXES 6" FROM ADJACENT POWER RECEPTACLE INTENDED FOR COMPUTER USE.

S. FURNISH AND INSTALL CONDUIT FROM BACK BOXES FOR THE FOLLOWING DEVICES INTO THE ACCESSIBLE CEILING SPACE IN THE CORRIDOR, UNLESS NOTED OTHERWISE:
1/2"C TV OUTLETS
1/2"C VOLUME CONTROLS
1/2"C DOOR SECURITY DEVICES (CARD READERS, DOOR STRIKES ETC..)
1/2"C NURSE CALL DOME LIGHTS
3/4"C NURSE CALL DEVICES
3/4"C TELEPHONE OUTLETS
3/4"C INFORMATION OUTLETS
3/4"C FIRE ALARM DEVICES

ELECTRICAL SHEET INDEX

SHEET	DESCRIPTION
E0.00	ELECTRICAL TITLE SHEET
ES.01	ELECTRICAL SITE PHOTOMETRIC PLAN
ES.00	ELECTRICAL SITE PLAN
E1.00	ELECTRICAL POWER PLAN
E1.10	ELECTRICAL ROOF POWER PLAN
E2.00	ELECTRICAL LIGHTING PLAN
E3.00	ELECTRICAL DISTRIBUTION DIAGRAM
E4.00	ELECTRICAL SCHEDULES
E4.01	ELECTRICAL SCHEDULES
E5.00	ELECTRICAL DETAILS

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LANDSCAPE CONSULTANT: (P) 312.644.3379
STRUCTURAL CONSULTANT: (P) 630.357.0540
Larson Engineering, Inc.

VILLAGE OF HOFFMAN ESTATES
VILLAGE GREEN CONCESSIONS
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER:	24-002
PROJECT MANAGER:	
DRAWN BY:	SLB / NSL
ISSUED FOR BID:	09/05/2024

DATE / REVISION

ELECTRICAL TITLE SHEET

100%CD/IFB

E0.00

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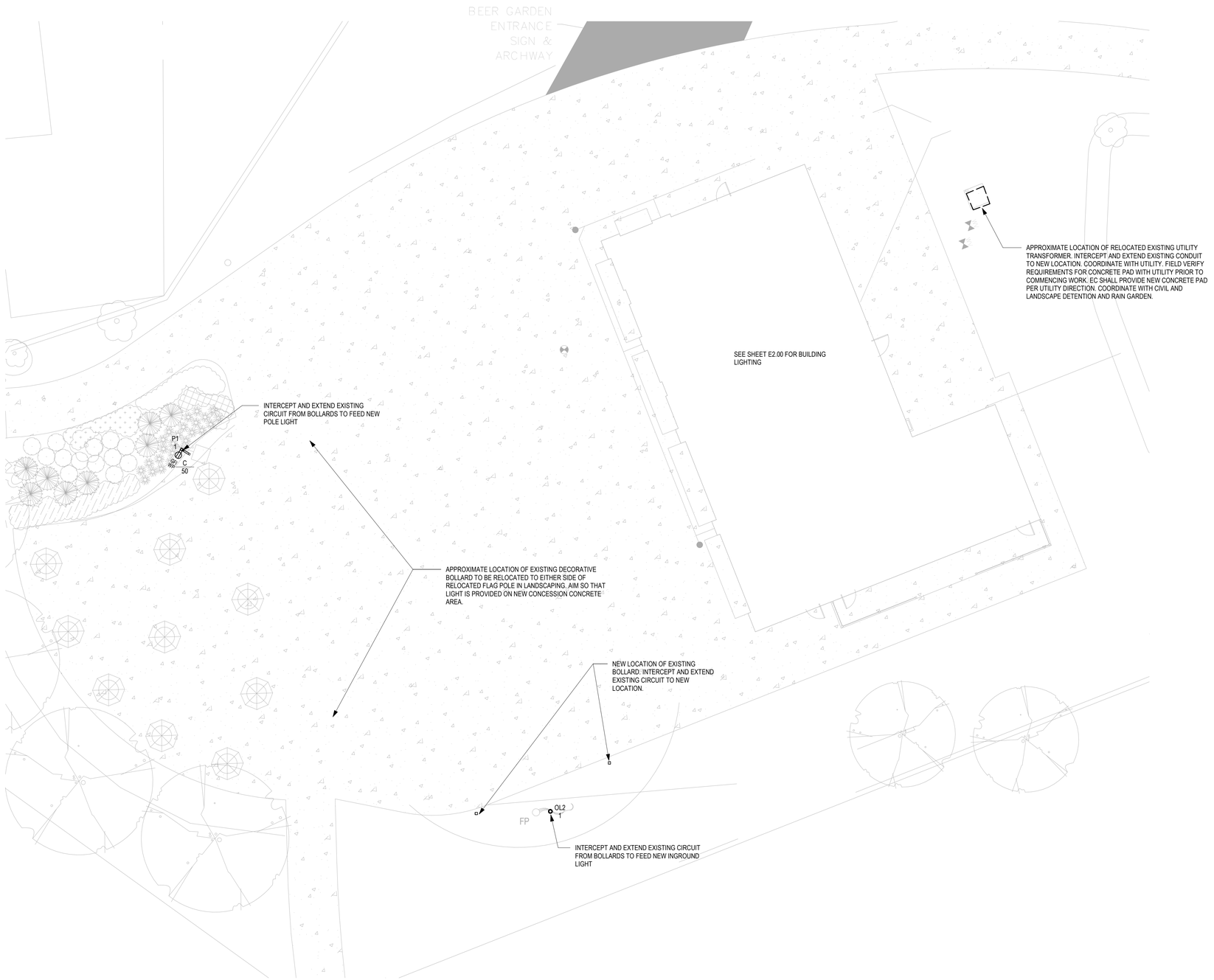
LICENSED PROFESSIONAL ENGINEER
JASON ANDEJESKI
062-065380
STATE OF ILLINOIS

DATE: 09.05.2024



1 ES.00 ELECTRICAL SITE PLAN
3/32" = 1'-0"

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VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

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REVISION | DATE

ELECTRICAL SITE PLAN

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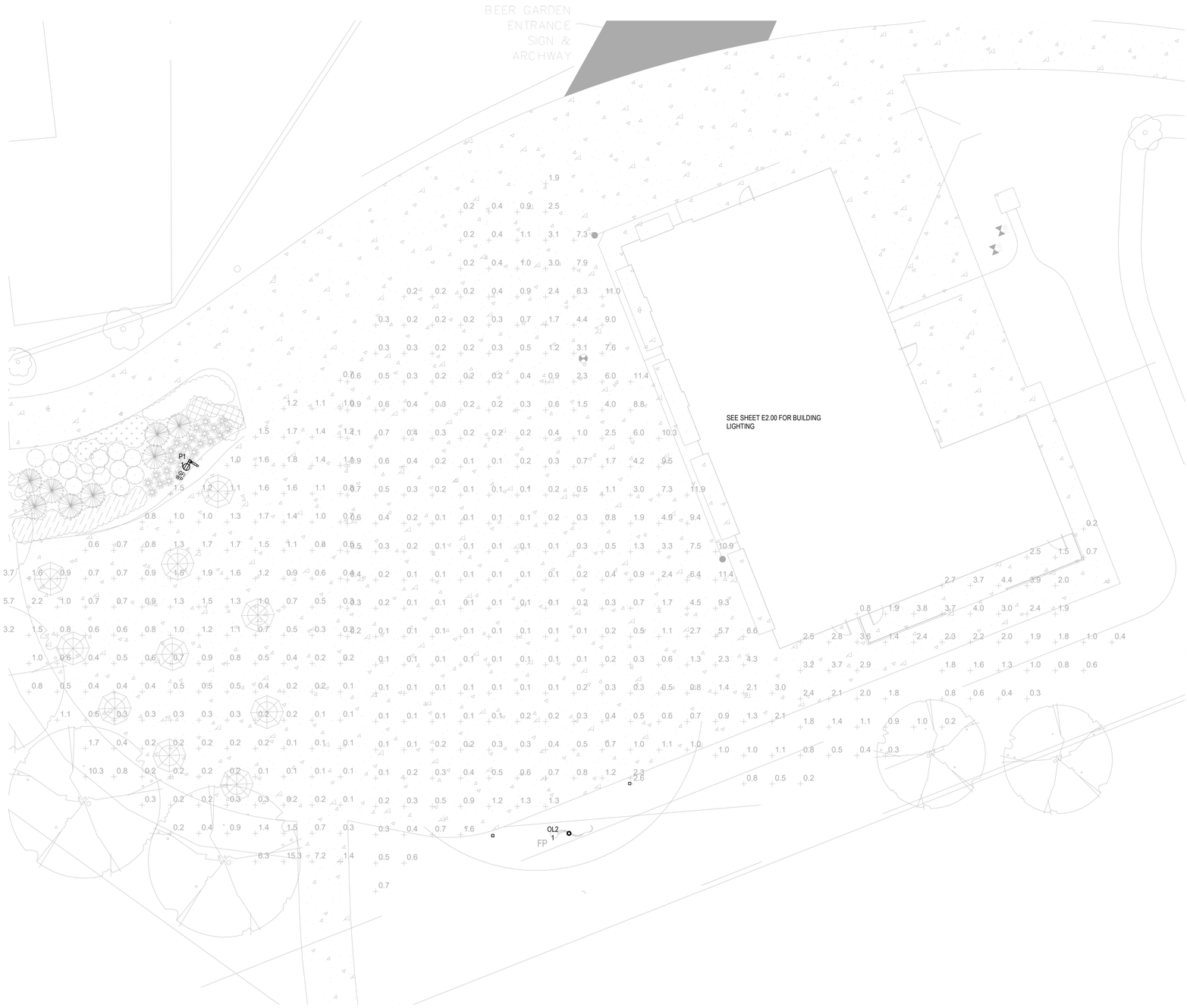
ES.00



1 ES.01 ELECTRICAL SITE PHOTOMETRIC PLAN
3/32" = 1'-0"

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land service group

HR Green

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER: 24-002
PROJECT MANAGER: SLB / NSL
DRAWN BY:
ISSUED FOR BID: 09/06/2024

REVISION	DATE

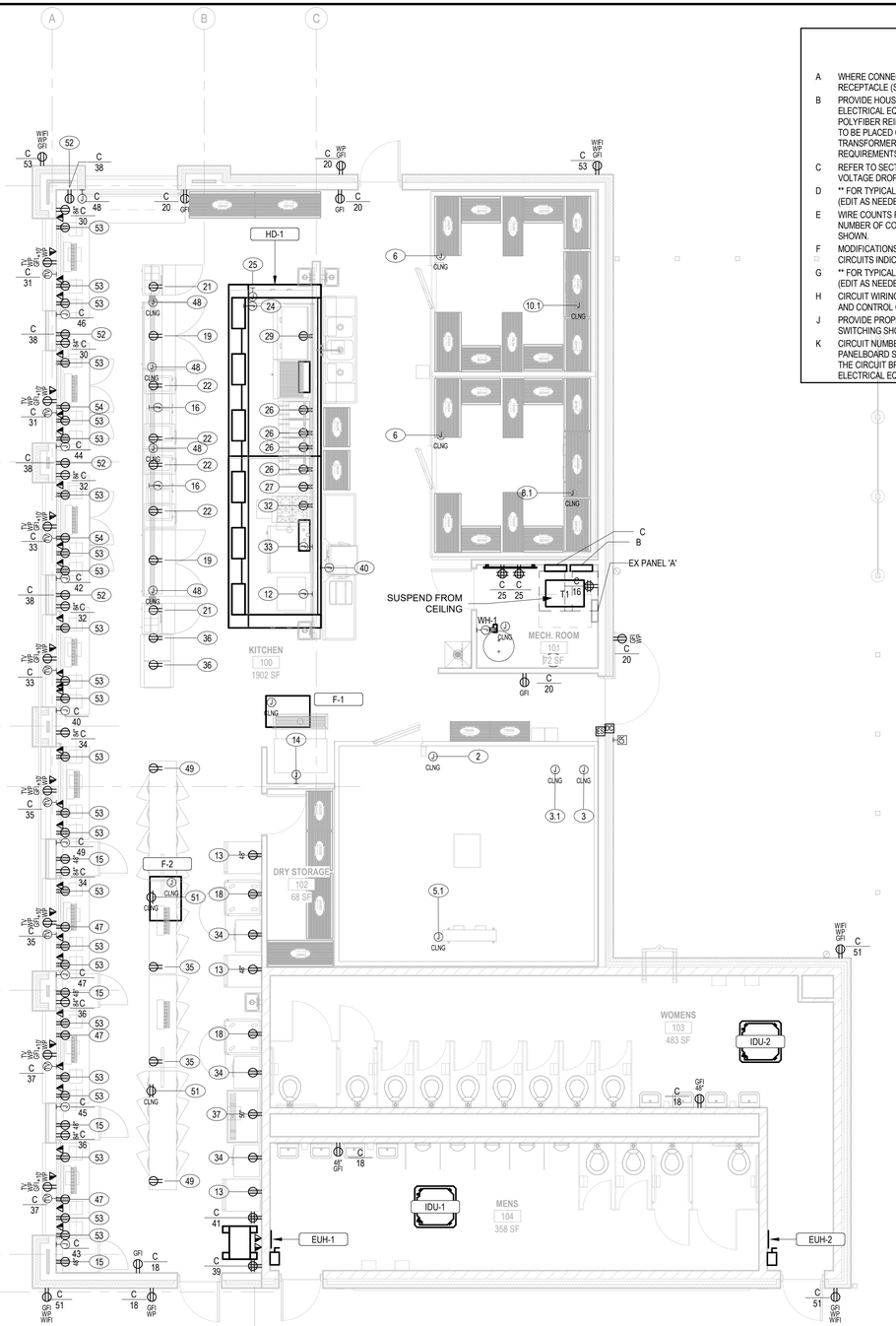
ELECTRICAL SITE PHOTOMETRIC PLAN

100%CD/IFB

ES.01

MCC EQUIPMENT CONNECTION SCHEDULE

TAG	DESCRIPTION	ROOM	Load HP	MCA	Load W	VOLT	PHASE	Panel	Circuit Number	CONDUIT & WIRE SIZE	MOCP	DISC. PROVIDED BY	Remarks
2	WALK-IN BEER COOLER LIGHTS			5.0 A	600 W	120 V	1	B	1	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
3	GLYCOL POWER PACKS			14.5 A	3016 W	208 V	1	B	3,5	3#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	NEMA 6-20P
3.1	GLYCOL POWER PACKS			9.5 A	1976 W	208 V	1	B	7,9	3#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	NEMA 6-20P
5.1	BEER COOLER EVAPORATOR			2.4 A	288 W	120 V	1	B	11	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	J-BOX
5.2	WALK-IN BEER COOLER CONDENSING UNIT			18.3 A		208 V	3	B	13,15		25.0 A	EC	J-BOX
6	WALK-IN COOLER LIGHTS & HEATER			15.0 A	1800 W	120 V	1	B	17	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	J-BOX
6	WALK-IN FREEZER LIGHTS & HEATER			15.0 A	1800 W	120 V	1	B	19	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	J-BOX
8.1	WALK-IN COOLER EVAPORATOR			2.4 A	288 W	120 V	1	B	21	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	J-BOX
8.2	WALK-IN COOLER CONDENSING UNIT			11.4 A		208 V	1	B	23,25		20.0 A	EC	J-BOX
10.1	WALK-IN FREEZER EVAPORATOR			2.4 A	288 W	120 V	1	B	27	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	J-BOX
10.2	WALK-IN FREEZER CONDENSING UNIT			17.0 A		208 V	1	B	29,31		20.0 A	EC	J-BOX
12	ELECTRIC SMOKER			57.0 A	11856 W	208 V	1	B	33,35	3#6CU, 1#10CU GND IN 3/4"C	60.0 A	EC	J-BOX
13	3 DOOR REFRIGERATOR UC			15.0 A	1800 W	120 V	1	B	41	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
13	GLASS DOOR MERCHANDISER			15.0 A	1800 W	120 V	1	B	39	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
13	GLASS DOOR MERCHANDISER			15.0 A	1800 W	120 V	1	B	37	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
14	ICE MAKER			20.0 A	4160 W	208 V	1	B	43,45	3#12CU, 1#12CU GND IN 3/4"C	30.0 A	EC	J-BOX
15	1 DOOR REFRIGERATOR			10.0 A	1200 W	120 V	1	B	47	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
15	1 DOOR REFRIGERATOR			10.0 A	1200 W	120 V	1	B	49	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
15	1 DOOR REFRIGERATOR			10.0 A	1200 W	120 V	1	B	51	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
15	1 DOOR REFRIGERATOR			10.0 A	1200 W	120 V	1	B	53	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
16	HOT FOOD WELLS			19.0 A	4000 W	120 V	1	B	55	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	J-BOX
16	HOT FOOD WELLS			19.0 A	4000 W	120 V	1	B	57	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	J-BOX
18	HEATED CABINETS (MOBILE)			11.3 A	1356 W	120 V	1	B	59	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
18	HEATED CABINETS (MOBILE)			11.3 A	1356 W	120 V	1	B	61	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
19	WORKTOP REFRIGERATOR			10.0 A	1200 W	120 V	1	B	63	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
19	WORKTOP REFRIGERATOR			10.0 A	1200 W	120 V	1	B	65	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
21	SALAD TOP REFRIGERATOR			15.0 A	1800 W	120 V	1	B	67	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
21	SALAD TOP REFRIGERATOR			15.0 A	1800 W	120 V	1	B	69	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
22	HEATED DRAWERS			3.8 A	450 W	120 V	1	B	71	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
22	HEATED DRAWERS			3.8 A	450 W	120 V	1	B	73	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
22	HEATED DRAWERS			3.8 A	450 W	120 V	1	B	75	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
22	HEATED DRAWERS			3.8 A	450 W	120 V	1	B	77	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
24	EXHAUST HOOD			15.0 A	1800 W	120 V	1	B	79	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	J-BOX
25	FIRE SUPPRESSION			15.0 A	1800 W	120 V	1	B	81	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	J-BOX
26	FRYER			15.0 A	1800 W	120 V	1	B	83	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
26	FRYER			15.0 A	1800 W	120 V	1	B	2	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
26	FRYER			15.0 A	1800 W	120 V	1	B	4	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
26	FRYER			15.0 A	1800 W	120 V	1	B	6	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
27	DUMP STATION			6.3 A	756 W	120 V	1	B	8	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
29	GRIDDLE			15.0 A	1800 W	120 V	1	B	10	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
32	4 BURNER RANGE W/OVEN BASE			15.0 A	1800 W	120 V	1	B	12	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
33	COMBI-OVEN			15.0 A	1800 W	120 V	1	B	14	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	J-BOX
34	DOUBLE HEATED DRAWERS			7.4 A	900 W	120 V	1	B	20	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
34	DOUBLE HEATED DRAWERS			7.4 A	900 W	120 V	1	B	18	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
34	DOUBLE HEATED DRAWERS			7.4 A	900 W	120 V	1	B	16	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
35	3 DOOR COOLER			10.0 A	1200 W	120 V	1	B	22	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
35	3 DOOR COOLER			10.0 A	1200 W	120 V	1	B	24	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
36	CHURRO WARMERS			10.0 A	1200 W	120 V	1	B	26	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
36	CHURRO WARMERS			10.0 A	1200 W	120 V	1	B	28	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
40	DISHMACHINE			46.0 A	16572 W	208 V	3	B	30,32,34	3#8CU, 1#10CU GND IN 3/4"C	50.0 A	EC	J-BOX
47	S/S WITH PASS THRU LEDGE			15.0 A	1800 W	120 V	1	B	36	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
47	S/S WITH PASS THRU LEDGE			15.0 A	1800 W	120 V	1	B	38	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
47	S/S WITH PASS THRU LEDGE			15.0 A	1800 W	120 V	1	B	40	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
48	HEAT LAMP			15.0 A	1800 W	120 V	1	B	42	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	J-BOX
48	HEAT LAMP			15.0 A	1800 W	120 V	1	B	44	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	J-BOX
48	HEAT LAMP			15.0 A	1800 W	120 V	1	B	46	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	J-BOX
48	HEAT LAMP			15.0 A	1800 W	120 V	1	B	48	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	J-BOX
49	4 DOOR PASS THRU UC COOLER			4.2 A	504 W	120 V	1	B	52	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
49	4 DOOR PASS THRU UC COOLER			4.2 A	504 W	120 V	1	B	50	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
51	MONITOR			5.0 A	600 W	120 V	1	B	54	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
51	MONITOR			5.0 A	600 W	120 V	1	B	54	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
53	POS			5.0 A	600 W	120 V	1	B	56	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
53	POS			5.0 A	600 W	120 V	1	B	58	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
53	POS			5.0 A	600 W	120 V	1	B	60	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
53	POS			5.0 A	600 W	120 V	1	B	62	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
53	POS			5.0 A	600 W	120 V	1	B	64	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
53	POS			5.0 A	600 W	120 V	1	B	66	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
53	POS			5.0 A	600 W	120 V	1	B	68	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
53	POS			5.0 A	600 W	120 V	1	B	70	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
53	POS			5.0 A	600 W	120 V	1	B	72	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
53	POS			5.0 A	600 W	120 V	1	B	74	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
53	POS			5.0 A	600 W	120 V	1	B	76	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
53	POS			5.0 A	600 W	120 V	1	B	78	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
53	POS			5.0 A	600 W	120 V	1	C	7	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
53	POS			5.0 A	600 W	120 V	1	C	5	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
53	POS			5.0 A	600 W	120 V	1	C	3	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
53	POS			5.0 A	600 W	120 V	1	C	1	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
53	POS			5.0 A	600 W	120 V	1	C	9	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
53	POS			5.0 A	600 W	120 V	1	C	11	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
53	POS			5.0 A	600 W	120 V	1	C	2	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
53	POS			5.0 A	600 W	120 V	1	C	4	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
53	POS			5.0 A	600 W	120 V	1	C	6	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
53	POS			5.0 A	600 W	120 V	1	C	8	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
53	POS			5.0 A	600 W	120 V	1	C	10	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
53	POS			5.0 A	600 W	120 V	1	C	12	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
54	3 DOOR REFRIGERATOR UC			9.0 A	900 W	120 V	1	C	13	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
54	3 DOOR REFRIGERATOR UC			9.0 A	900 W	120 V	1	C	15	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	



1 E1.00 ELECTRICAL POWER PLAN
3/16" = 1'-0"

POWER SHEET NOTES

A WHERE CONNECTED TO A 20A. BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.

B PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT. REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PADS THAT MAY EXCEED THESE REQUIREMENTS.

C REFER TO SECTION 26 0519 FOR MINIMUM CONDUCTOR SIZE ADJUSTMENTS FOR VOLTAGE DROP.

D ** FOR TYPICAL PROJECTS WHERE WIRING IS SHOWN, SELECT THESE NOTES (EDIT AS NEEDED):

E WIRE COUNTS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUIT AND SWITCHING CONNECTIONS SHOWN.

F MODIFICATIONS TO NUMBER OF CONDUCTORS IN HOME RUNS IN ADDITION TO CIRCUITS INDICATED ON THIS DRAWING ARE PROHIBITED.

G ** FOR TYPICAL PROJECTS WHERE WIRING IS NOT SHOWN, SELECT THESE NOTES (EDIT AS NEEDED):

H CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES.

J PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.

K CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.

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JASON ANDEJESKI
062-065380
STATE OF ILLINOIS

DATE: 09.05.2024

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VILLAGE OF HOFFMAN ESTATES
VILLAGE GREEN CONCESSIONS
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

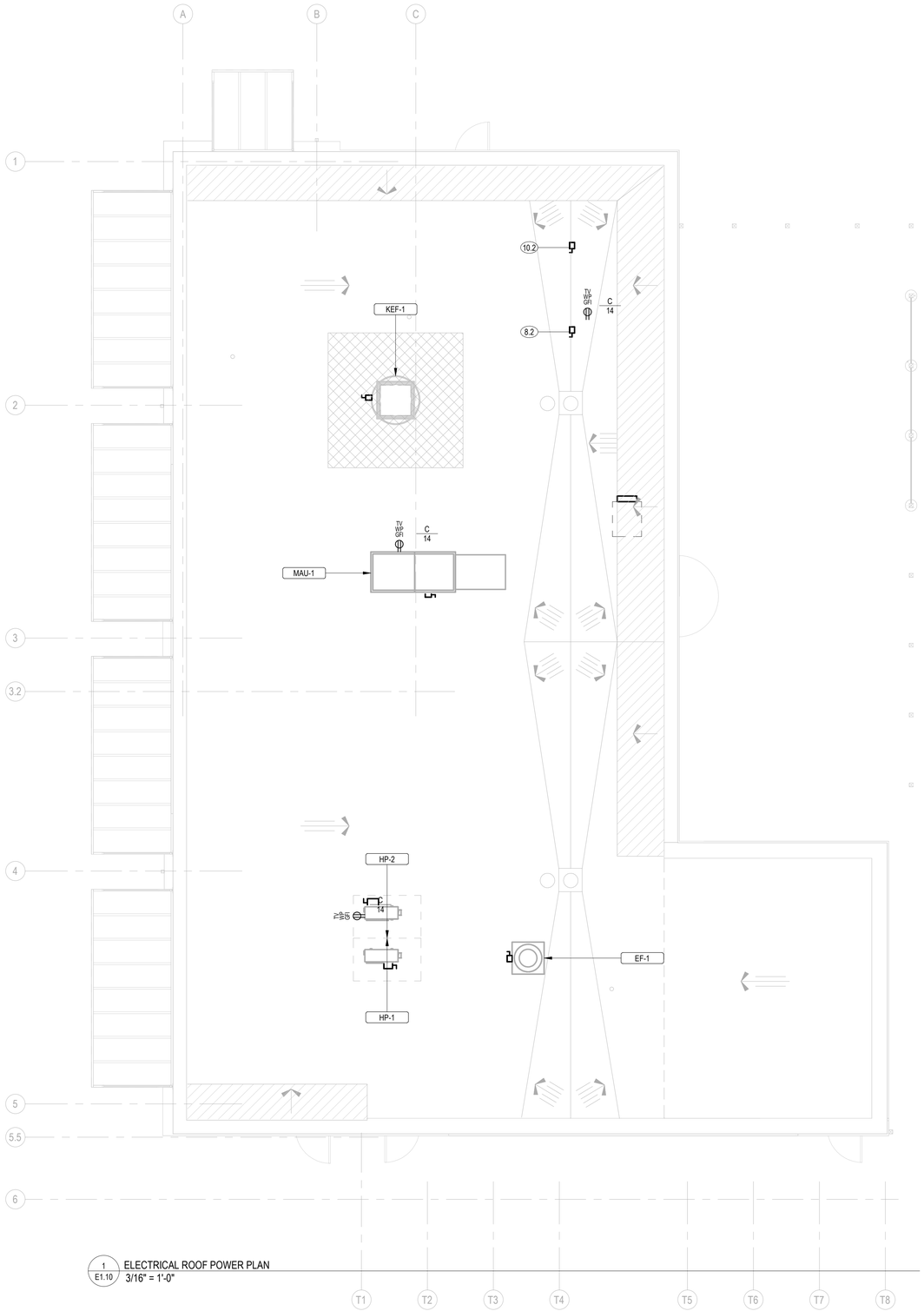
PROJECT NUMBER: 24-002
PROJECT MANAGER: SLB / NSL
DRAWN BY:
ISSUED FOR BID: 09/05/2024

DATE	REVISION

ELECTRICAL POWER PLAN

100%CD/IFB

E1.00



1 E1.10 ELECTRICAL ROOF POWER PLAN
3/16" = 1'-0"

POWER SHEET NOTES

A WHERE CONNECTED TO A 20A. BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.

B PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH, 4% AIR ENTRAINED, POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT. REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PADS THAT MAY EXCEED THESE REQUIREMENTS.

C REFER TO SECTION 26 0519 FOR MINIMUM CONDUCTOR SIZE ADJUSTMENTS FOR VOLTAGE DROP.

D ** FOR TYPICAL PROJECTS WHERE WIRING IS SHOWN, SELECT THESE NOTES (EDIT AS NEEDED):

E WIRE COUNTS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUIT AND SWITCHING CONNECTIONS SHOWN.

F MODIFICATIONS TO NUMBER OF CONDUCTORS IN HOME RUNS IN ADDITION TO CIRCUITS INDICATED ON THIS DRAWING ARE PROHIBITED.

G ** FOR TYPICAL PROJECTS WHERE WIRING IS NOT SHOWN, SELECT THESE NOTES (EDIT AS NEEDED):

H CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES.

J PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.

K CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.

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DATE: 09.05.2024

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eda associates inc. food service design

(P) 800.728.7805

LANDSCAPE CONSULTANT: JSD (P) 312.644.3379

STRUCTURAL CONSULTANT: Larson Engineering, Inc. (P) 630.357.0540

MEP / Design Affiliate
Larson Engineering

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER: 24-002
PROJECT MANAGER:
DRAWN BY: SLB / NSL

REVISION	DATE

ISSUED FOR BID: 09/05/2024

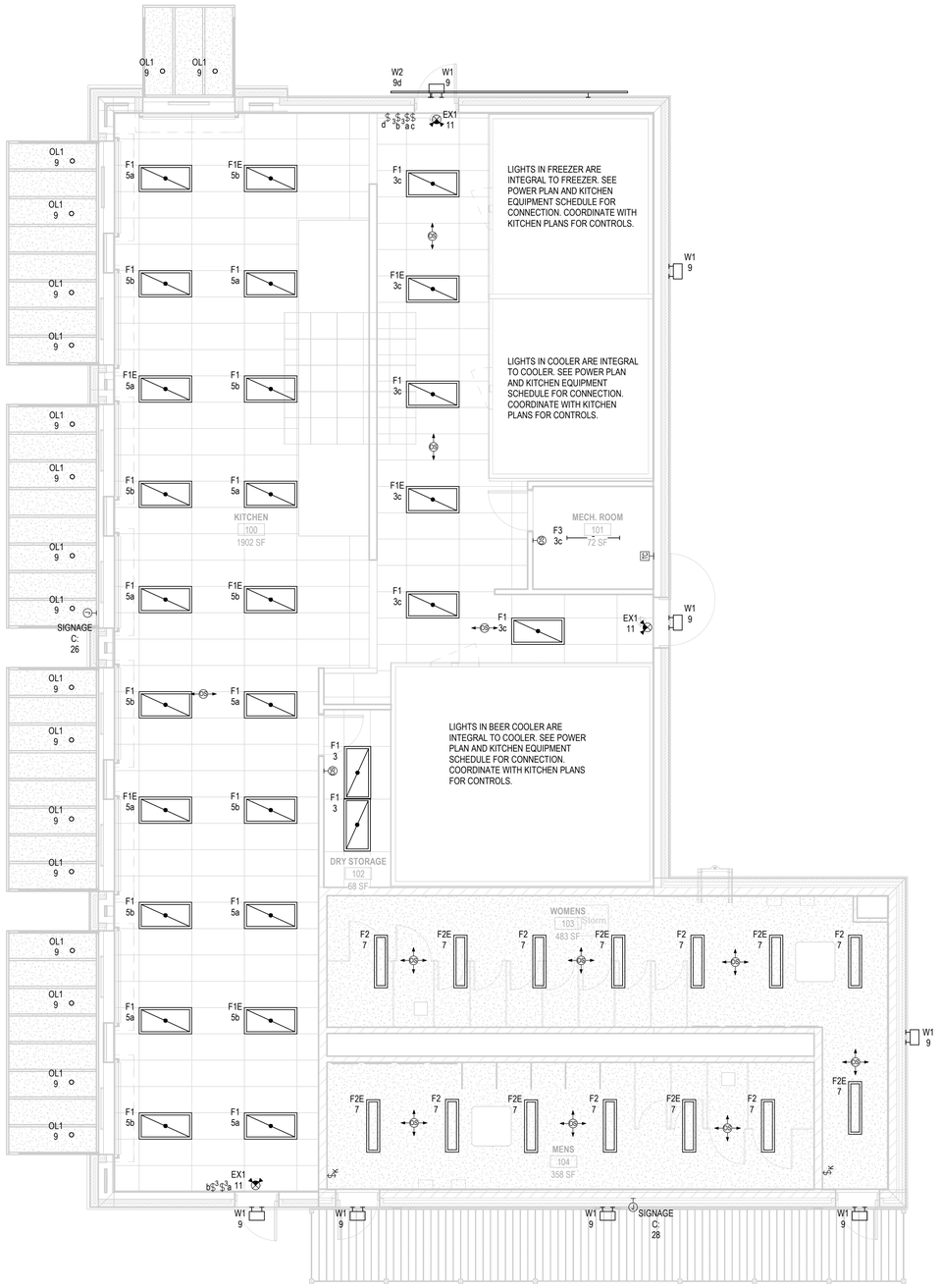
ELECTRICAL ROOF POWER PLAN

100%CD/IFB

E1.10

LIGHTING SHEET NOTES

A ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6' LONG FLEXIBLE METAL CONDUIT.
B ALL MOUNTING HEIGHTS FOR LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURES UNLESS INDICATED OTHERWISE.
C SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTING FIXTURES.
D REFER TO SECTION 26 0519 FOR MINIMUM CONDUCTOR SIZE ADJUSTMENTS FOR VOLTAGE DROP.
E **FOR TYPICAL PROJECTS WHERE WIRING IS SHOWN (EDIT AS NEEDED):.
F WIRE COUNTS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUIT AND SWITCHING CONNECTIONS SHOWN.
G MODIFICATIONS TO NUMBER OF CONDUCTORS IN HOME RUNS IN ADDITION TO CIRCUITS INDICATED ON THIS DRAWING ARE PROHIBITED.
H **FOR TYPICAL PROJECTS WHERE WIRING IS NOT SHOWN (EDIT AS NEEDED):
J CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES.
K PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
L CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE ELECTRICAL EQUIPMENT SCHEDULE.



1 E2.00 ELECTRICAL LIGHTING PLAN
3/16" = 1'-0"

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DATE: 09.05.2024

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STRUCTURAL CONSULTANT: Larson Engineering, Inc. (P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES
VILLAGE GREEN CONCESSIONS
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER:	24-002
PROJECT MANAGER:	
DRAWN BY:	SLB / NSL

REVISION	DATE
ISSUED FOR BID:	09/05/2024

ELECTRICAL LIGHTING PLAN

100%CD/IFB

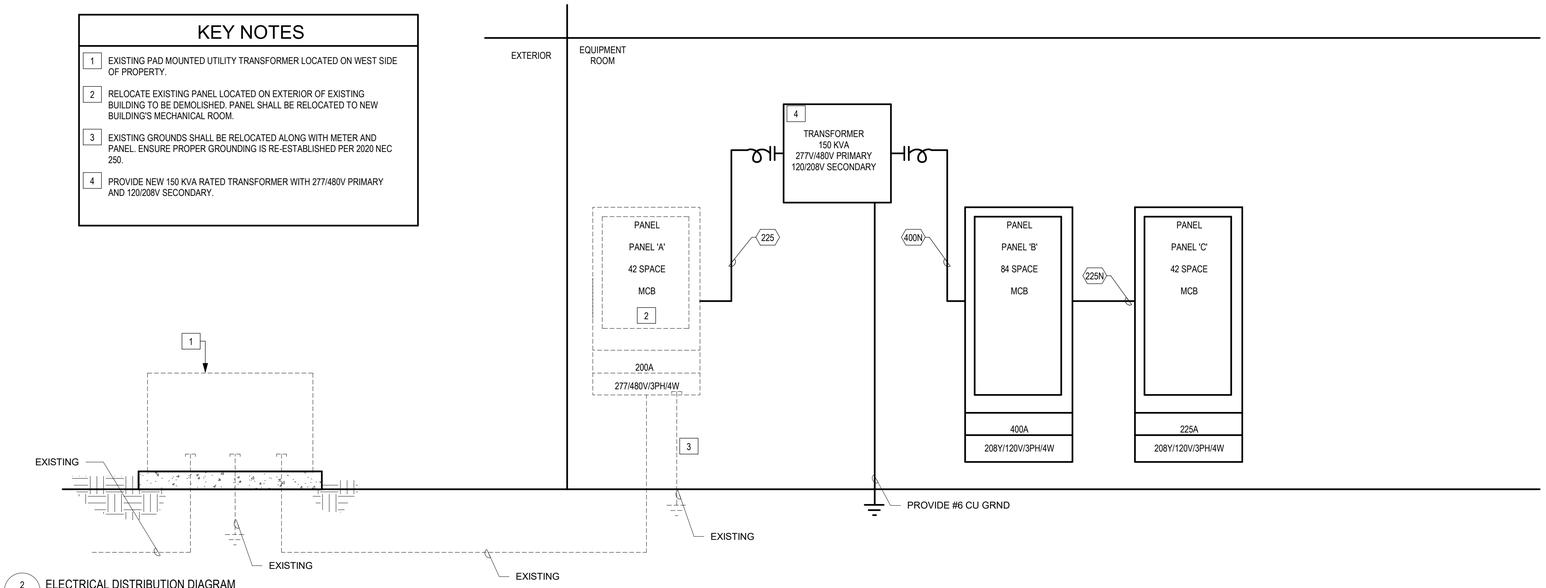
E2.00

ONE LINE DIAGRAM THREE PHASE FEEDER SCHEDULE			
FEEDER TAG	CONDUCTOR SIZE	FEEDER TAG	CONDUCTOR SIZE
20	3#12, 1#12 GRND, 3/4"C.	20N	4#12, 1#12 GRND, 3/4"C.
25	3#10, 1#10 GRND, 3/4"C.	25N	4#10, 1#10 GRND, 3/4"C.
30	3#10, 1#10 GRND, 3/4"C.	30N	4#10, 1#10 GRND, 3/4"C.
35	3#8, 1#10 GRND, 3/4"C.	35N	4#8, 1#10 GRND, 3/4"C.
40	3#8, 1#10 GRND, 3/4"C.	40N	4#8, 1#10 GRND, 3/4"C.
45	3#8, 1#10 GRND, 3/4"C.	45N	4#8, 1#10 GRND, 3/4"C.
50	3#8, 1#10 GRND, 3/4"C.	50N	4#6, 1#10 GRND, 1"C.
60	3#6, 1#10 GRND, 1"C.	60N	4#6, 1#10 GRND, 1"C.
70	3#4, 1#8 GRND, 1"C.	70N	4#4, 1#8 GRND, 1-1/4"C.
80	3#4, 1#8 GRND, 1"C.	80N	4#4, 1#8 GRND, 1-1/4"C.
90	3#3, 1#8 GRND, 1-1/4"C.	90N	4#3, 1#8 GRND, 1-1/4"C.
100	3#3, 1#8 GRND, 1-1/4"C.	100N	4#3, 1#8 GRND, 1-1/4"C.
110	3#3, 1#8 GRND, 1-1/4"C.	110N	4#3, 1#8 GRND, 1-1/4"C.
125	3#1, 1#6 GRND, 1-1/4"C.	125N	4#1, 1#6 GRND, 1-1/2"C.
150	3#1/0, 1#6 GRND, 1-1/2"C.	150N	4#1/0, 1#6 GRND, 1-1/2"C.
175	3#2/0, 1#6 GRND, 2"C.	175N	4#2/0, 1#6 GRND, 2"C.
200	3#3/0, 1#6 GRND, 2"C.	200N	4#3/0, 1#6 GRND, 2"C.
225	3#4/0, 1#4 GRND, 2"C.	225N	4#4/0, 1#4 GRND, 2-1/2"C.
250	3#250, 1#4 GRND, 2-1/2"C.	250N	4#250, 1#4 GRND, 2-1/2"C.
300	3#250, 1#4 GRND, 2-1/2"C.	250N	4#250, 1#4 GRND, 2-1/2"C.
350	3#400, 1#3 GRND, 3"C.	350N	4#400, 1#3 GRND, 3"C.
400	3#500, 1#3 GRND, 3"C.	400N	2 SETS OF 4#3/0, 1#3 GRND, 2"C.
600	2 SETS OF 3#300MCM, 1#1 GRND, 2-1/2"C.	600N	2 SETS OF 4#350MCM, 1#1 GRND, 3"C.
800	2 SETS OF 3#500MCM, 1#1/0 GRND, 3"C.	800N	3 SETS OF 4#300MCM, 1#1/0 GRND, 3"C.
1.0K	3 SETS OF 3#400MCM, 1#2/0 GRND, 3"C.	1.0KN	3 SETS OF 4#500MCM, 1#2/0 GRND, 3-1/2"C.
1.2K	4 SETS OF 3#350MCM, 1#3/0 GRND, 2-1/2"C.	1.2KN	4 SETS OF 4#400MCM, 1#3/0 GRND, 3"C.
2.0K	6 SETS OF 3#400MCM, 1#250 GRND, 3"C.	2.0KN	6 SETS OF 4#500MCM, 1#350 GRND, 3"C.
2.5K	7 SETS OF 3#500MCM, 1#350 GRND, 3"C.	2.5KN	9 SETS OF 4#350MCM, 1#350 GRND, 3"C.
3.0K	8 SETS OF 3#500MCM, 1#400 GRND, 3-1/2"C.	3.0KN	9 SETS OF 4#500MCM, 1#400 GRND, 3-1/2"C.

NOTES:
1) ALL WIRE SHALL BE STRANDED.
2) ALL CONDUCTORS SHALL BE RATED 90°C FOR DRY/WET LOCATIONS.
3) INSULATION TYPES HALL BE AS FOLLOWS:
   A) CONDUCTORS SIZED UP TO NO. 2 SHALL BE DUAL LISTED THHN/THWN-2.
   B) CONDUCTORS NO. 3 AND LARGER SHALL BE LISTED XHHW-2.
   C) SERVICE ENTRANCE CONDUCTORS SHALL BE LISTED RHW-2.

KEY NOTES

1. EXISTING PAD MOUNTED UTILITY TRANSFORMER LOCATED ON WEST SIDE OF PROPERTY.
2. RELOCATE EXISTING PANEL LOCATED ON EXTERIOR OF EXISTING BUILDING TO BE DEMOLISHED. PANEL SHALL BE RELOCATED TO NEW BUILDING'S MECHANICAL ROOM.
3. EXISTING GROUNDS SHALL BE RELOCATED ALONG WITH METER AND PANEL. ENSURE PROPER GROUNDING IS RE-ESTABLISHED PER 2020 NEC 250.
4. PROVIDE NEW 150 KVA RATED TRANSFORMER WITH 277/480V PRIMARY AND 120/208V SECONDARY.



2 E3.00 ELECTRICAL DISTRIBUTION DIAGRAM
3/4" = 1'-0"

Larson Engineering Inc.
1488 Bond Street, Suite 100
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JASON ANDEJESKI
062-065380
LICENSED PROFESSIONAL ENGINEER
STATE OF ILLINOIS

DATE: 09.05.2024

TRIA ARCHITECTURE

KITCHEN CONSULTANT: edge associates inc. food service design (P) 855.562.4422
CIVIL CONSULTANT: HR Green (P) 800.728.7805
LANDSCAPE CONSULTANT: JSD (P) 312.644.3379
STRUCTURAL CONSULTANT: Larson Engineering, Inc. (P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER: 24-002
PROJECT MANAGER:
DRAWN BY: SLB / NSL
ISSUED FOR BID: 09/06/2024

DATE	REVISION

ELECTRICAL DISTRIBUTION DIAGRAM

100%CD/IFB

E3.00

Branch Panel: B

Location: MECH. ROOM 101
Supply From: T1
Mounting: SURFACE
Enclosure: NEMA1

Volts: 208Y/120
Phases: 3
Wires: 4
Ground Bus:

A.I.C. Rating: 10,000 AMPS SYMMETRICAL
Mains Type: MLO
Bus Rating: 400 AMPS
GFP:

Notes:

CCT	Circuit Description	Wire Size	Load...	Rating	Poles	A	B	C	A	B	C	Poles	Rating	Load...	Wire Size	Circuit Description	CCT
1	BEER CLR LTS	1-#12, 1-#12, 1-#12	Ot...	20.0 A	1	600 VA			1800 VA			1	20.0 A	KT...	1-#12, 1-#12, 1-#12	FRYER	2
3	GLYCOL POWER...	2-#12, 1-#12, 1-#12	KT...	20.0 A	2		1508 VA			1800 VA		1	20.0 A	KT...	1-#12, 1-#12, 1-#12	FRYER	4
5								1508 VA			1800 VA	1	20.0 A	KT...	1-#12, 1-#12, 1-#12	FRYER	6
7	GLYCOL POWER...	2-#12, 1-#12, 1-#12	KT...	20.0 A	2	988 VA			756 VA			1	20.0 A	KT...	1-#12, 1-#12, 1-#12	DUMP STATION	8
9							988 VA			1800 VA		1	20.0 A	KT...	1-#12, 1-#12, 1-#12	GRIDDLE	10
11	BEER COOLER...	1-#12, 1-#12, 1-#12	KT...	20.0 A	1			288 VA			1800 VA	1	20.0 A	KT...	1-#12, 1-#12, 1-#12	4 BURNER RNAGE	12
13	BEER COOLER...	2-#12, 1-#12, 1-#12	Ot...	20.0 A	2	1903 VA			1800 VA			1	20.0 A	KT...	1-#12, 1-#12, 1-#12	COMBI-OVEN	14
15							1903 VA			900 VA		1	20.0 A	KT...	1-#12, 1-#12, 1-#12	DOUBLE HEATED...	16
17	COOLER LTS&HTR	1-#12, 1-#12, 1-#12	LIT...	20.0 A	1			1800 VA			900 VA	1	20.0 A	KT...	1-#12, 1-#12, 1-#12	DOUBLE HEATED...	18
19	FREEZER...	1-#12, 1-#12, 1-#12	LIT...	20.0 A	1	1800 VA			900 VA			1	20.0 A	KT...	1-#12, 1-#12, 1-#12	DOUBLE HEATED...	20
21	COOLER EVAP	1-#12, 1-#12, 1-#12	KT...	20.0 A	1		288 VA			1200 VA		1	20.0 A	KT...	1-#12, 1-#12, 1-#12	3 DOOR COOLER	22
23	COOLER...	2-#12, 1-#12, 1-#12	Ot...	20.0 A	2			1186 VA			1200 VA	1	20.0 A	KT...	1-#12, 1-#12, 1-#12	3 DOOR COOLER	24
25						1186 VA			1200 VA			1	20.0 A	KT...	1-#12, 1-#12, 1-#12	CHURRO WARMER	26
27	FREEZER EVAP	1-#12, 1-#12, 1-#12	KT...	20.0 A	1		288 VA			1200 VA		1	20.0 A	KT...	1-#12, 1-#12, 1-#12	CHURRO WARMER	28
29	FREEZER...	2-#12, 1-#12, 1-#12	Ot...	20.0 A	2			1768 VA			5524 VA	3	20.0 A	KTCH	3-#12, 1-#12, 1-#12	DISH MACHINE	30
31						1768 VA			5524 VA								32
33	ELECTRIC SMOKER	2-#4, 1-#4, 1-#10	KT...	60.0 A	2		5928 VA			5524 VA							34
35								5928 VA			1800 VA	1	20.0 A	KT...	1-#12, 1-#12, 1-#12	S/S WITH PASS...	36
37	GLASS DOOR...	1-#12, 1-#12, 1-#12	KT...	20.0 A	1	1800 VA			1800 VA			1	20.0 A	KT...	1-#12, 1-#12, 1-#12	S/S WITH PASS...	38
39	GLASS DOOR...	1-#12, 1-#12, 1-#12	KT...	20.0 A	1		1800 VA			1800 VA		1	20.0 A	KT...	1-#12, 1-#12, 1-#12	S/S WITH PASS...	40
41	3 DOOR UC REF	1-#12, 1-#12, 1-#12	KT...	20.0 A	1			1800 VA			1800 VA	1	20.0 A	KT...	1-#12, 1-#12, 1-#12	HEAT LAMP	42
43	ICE MACHER	2-#12, 1-#12, 1-#12	KT...	20.0 A	2	2080 VA			1800 VA			1	20.0 A	KT...	1-#12, 1-#12, 1-#12	HEAT LAMP	44
45							2080 VA			1800 VA		1	20.0 A	KT...	1-#12, 1-#12, 1-#12	HEAT LAMP	46
47	1 DOOR REF	1-#12, 1-#12, 1-#12	KT...	20.0 A	1			1200 VA			1800 VA	1	20.0 A	KT	1-#12, 1-#12, 1-#12	HEAT LAMP	48
49	1 DOOR REF	1-#12, 1-#12, 1-#12	KT...	20.0 A	1	1200 VA			504 VA			1	20.0 A	KT...	1-#12, 1-#12, 1-#12	PASS THRU UC...	50
51	1 DOOR REF	1-#12, 1-#12, 1-#12	KT...	20.0 A	1		1200 VA			504 VA		1	20.0 A	KT...	1-#12, 1-#12, 1-#12	PASS THRU UC...	52
53	1 DOOR REF	1-#12, 1-#12, 1-#12	KT...	20.0 A	1			1200 VA			1200 VA	1	20.0 A	R	1-#12, 1-#12, 1-#12	MONITOR	54
55	HOT FOOD WELL	1-#12, 1-#12, 1-#12	KT...	20.0 A	1	4000 VA			600 VA			1	20.0 A	R	1-#12, 1-#12, 1-#12	POS	56
57	HOT FOOD WELL	1-#12, 1-#12, 1-#12	KT...	20.0 A	1		4000 VA			600 VA		1	20.0 A	R	1-#12, 1-#12, 1-#12	POS	58
59	HEATED CABINET	1-#12, 1-#12, 1-#12	KT...	20.0 A	1			1356 VA			600 VA	1	20.0 A	R	1-#12, 1-#12, 1-#12	POS	60
61	HEATED CABINET	1-#12, 1-#12, 1-#12	KT...	20.0 A	1	1356 VA			600 VA			1	20.0 A	R	1-#12, 1-#12, 1-#12	POS	62
63	WORKTOP REF	1-#12, 1-#12, 1-#12	KT...	20.0 A	1		1200 VA			600 VA		1	20.0 A	R	1-#12, 1-#12, 1-#12	POS	64
65	WORKTOP REF	1-#12, 1-#12, 1-#12	KT...	20.0 A	1			1200 VA			600 VA	1	20.0 A	R	1-#12, 1-#12, 1-#12	POS	66
67	SALAD TOP REF	1-#12, 1-#12, 1-#12	KT...	20.0 A	1	1800 VA			600 VA			1	20.0 A	R	1-#12, 1-#12, 1-#12	POS	68
69	SALAD TOP REF	1-#12, 1-#12, 1-#12	KT...	20.0 A	1		1800 VA			600 VA		1	20.0 A	R	1-#12, 1-#12, 1-#12	POS	70
71	HEATED DRAWER	1-#12, 1-#12, 1-#12	KT...	20.0 A	1			450 VA			600 VA	1	20.0 A	R	1-#12, 1-#12, 1-#12	POS	72
73	HEATED DRAWER	1-#12, 1-#12, 1-#12	KT...	20.0 A	1	450 VA			600 VA			1	20.0 A	R	1-#12, 1-#12, 1-#12	POS	74
75	HEATED DRAWER	1-#12, 1-#12, 1-#12	KT...	20.0 A	1		450 VA			600 VA		1	20.0 A	R	1-#12, 1-#12, 1-#12	POS	76
77	HEATED DRAWER	1-#12, 1-#12, 1-#12	KT...	20.0 A	1			450 VA			600 VA	1	20.0 A	R	1-#12, 1-#12, 1-#12	POS	78
79	EXHAUST HOOD	1-#12, 1-#12, 1-#12	KT...	20.0 A	1	1800 VA			14220 VA								80
81	FIRE SUPRESSION	1-#12, 1-#12, 1-#12	Ot...	20.0 A	1		1800 VA			14276 VA		3	20.0 A	Other;...	3-#12, 1-#12, 1-#12	PANEL 'C'	82
83	FRYER	1-#12, 1-#12, 1-#12	KT...	20.0 A	1			1800 VA			15564 VA						84
					Tot...	55435 VA		58437 VA		57722 VA							
					Tot...	462.0 A		489.9 A		483.9 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	29033 VA	65.00%	18871 VA		
KTCH	109720 VA	65.00%	71318 VA	**Total Conn. Load:**	171593 VA
L	2880 VA	125.00%	3600 VA	**Total Est. Demand:**	116739 VA
KT	1800 VA	65.00%	1170 VA	**Total Conn.:**	476.3 A
R	24560 VA	70.36%	17280 VA	**Total Est. Demand:**	324.0 A
LITES	3600 VA	125.00%	4500 VA		

Notes:
Motor = LARGEST MOTOR
MN = MOTOR (NON-SEASONAL)
L = LIGHTING (CONTINUOUS)
R = RECEPTACLE
C = CONTINUOUS
PN = POWER NON-SEASONAL (NON-CONTINUOUS)
VT = VERTICAL TRANSPORTATION

Branch Panel: EX PANEL 'A'

Location: MECH. ROOM 101
Supply From:
Mounting: SURFACE
Enclosure: NEMA 3R

Volts: 480Y/277
Phases: 3
Wires: 4
Ground Bus:

A.I.C. Rating: 14,000 AMPS SYMMETRICAL
Mains Type: MAIN CB
Mains Rating: 200.0 A
Bus Rating: 200 AMPS
GFP:

Notes:

CCT	Circuit Description	Wire Size	Load Type	Rating	Poles	A	B	C	A	B	C	Poles	Rating	Load Type	Wire Size	Circuit Description	CCT
1	EXISTING BOLLARDS	1-#12, 1-#12, 1-#12	Oth...	20.0 A	1	75 VA			4800 VA			1	20.0 A	Other	1-#12, 1-#12, 1-#12	EUH-1	2
3	LITES	1-#12, 1-#12, 1-#12	LIT...	20.0 A	1		325 VA			4800 VA		1	20.0 A	Other	1-#12, 1-#12, 1-#12	EUH-2	4
5	LITES	1-#12, 1-#12, 1-#12	LITES	20.0 A	1			733 VA			3325 VA						6
7	LITES	1-#12, 1-#12, 1-#12	LITES	20.0 A	1	420 VA			3325 VA			3	20.0 A	Other	3-#12, 1-#12, 1-#12	MUA-1	8
9	LITES	1-#12, 1-#12, 1-#12	LITES	20.0 A	1		507 VA			3325 VA							10
11	LITES	1-#12, 1-#12, 1-#12	LITES	20.0 A	1			11 VA			1912 VA						12
13						400 VA			1912 VA			3	20.0 A	Kitchen	3-#12, 1-#12, 1-#12	KEF-1	14
15	EF-1	3-#12, 1-#12, 1-#12	Other	20.0 A	3		400 VA			1912 VA							16
17								400 VA									18
19																	20
21																	22
23																	24
25																	26
27																	28
29																	30
31																	32
33																	34
35																	36
37									55435...								38
39										58437...		3	225.0 A	Other;...	3-#300, 1-#300, 1-#4	T1	40
41											57722...						42
					Total Load:	66367 VA		69706 VA		64103 VA							
					Total Amps:	240.9 A		252.9 A		231.4 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	33 VA	100.00%	33 VA		
Other	49850 VA	65.00%	32403 VA	**Total Conn. Load:**	200175 VA
KTCH	109720 VA	65.00%	71318 VA	**Total Est. Demand:**	138535 VA
L	2880 VA	125.00%	3600 VA	**Total Conn.:**	240.8 A
KT	1800 VA	65.00%	1170 VA	**Total Est. Demand:**	166.6 A
R	24560 VA	70.36%	17280 VA		
LITES	5596 VA	125.00%	6995 VA		
Kitchen	5736 VA	100.00%	5736 VA		

Notes:
Motor = LARGEST MOTOR
MN = MOTOR (NON-SEASONAL)
L = LIGHTING (CONTINUOUS)
R = RECEPTACLE
C = CONTINUOUS
PN = POWER NON-SEASONAL (NON-CONTINUOUS)
VT = VERTICAL TRANSPORTATION

Branch Panel: C

Location: MECH. ROOM 101
Supply From: B
Mounting: SURFACE
Enclosure: NEMA1

Volts: 208Y/120
Phases: 3
Wires: 4
Ground Bus:

A.I.C. Rating: 10,000 AMPS SYMMETRICAL
Mains Type: MLO
Bus Rating: 225 AMPS
GFP:

Notes:

CCT	Circuit Description	Wire Size	Load...	Rating	Poles	A	B	C	A	B	C	Poles	Rating	Load...	Wire Size	Circuit Description	CCT
1	POS	1-#12, 1-#12, 1-#12	R	20.0 A	1	600 VA			600 VA			1	20.0 A	R	1-#12, 1-#12, 1-#12	POS	2
3	POS	1-#12, 1-#12, 1-#12	R	20.0 A	1		600 VA			600 VA		1	20.0 A	R	1-#12, 1-#12, 1-#12	POS	4
5	POS	1-#12, 1-#12, 1-#12	R	20.0 A	1			600 VA			600 VA	1	20.0 A	R	1-#12, 1-#12, 1-#12	POS	6
7	POS	1-#12, 1-#12, 1-#12	R	20.0 A	1	600 VA			600 VA			1	20.0 A	R	1-#12, 1-#12, 1-#12	POS	8
9	POS	1-#12, 1-#12, 1-#12	R	20.0 A	1		600 VA			600 VA		1	20.0 A	R	1-#12, 1-#12, 1-#12	POS	10
11	POS	1-#12, 1-#12, 1-#12	R	20.0 A	1			600 VA			600 VA	1	20.0 A	R	1-#12, 1-#12, 1-#12	POS	12
13	3 DOOR UC REF	1-#12, 1-#12, 1-#12	KT...	20.0 A	1	900 VA			540 VA			1	20.0 A	R	1-#12, 1-#12, 1-#12	RECEPT - ROOF	14
15	3 DOOR UC REF	1-#12, 1-#12, 1-#12	KT...	20.0 A	1		900 VA			360 VA		1	20.0 A	R	1-#12, 1-#12, 1-#12	RECEPT - PANEL	16
17	HP-1	2-#12, 1-#12, 1-#12	Ot...	20.0 A	2			3120 VA			720 VA	1	20.0 A	R	1-#12, 1-#12, 1-#12	RECEPT -...	18
19						3120 VA			900 VA			1	20.0 A	R	1-#12, 1-#12, 1-#12	RECEPTS - CONV	20
21	HP-2	2-#12, 1-#12, 1-#12	Ot...	20.0 A	2		3120 VA			600 VA		1	20.0 A	Ot...	1-#12, 1-#12, 1-#12	WH-1	22
23								3120 VA			528 VA	1	20.0 A	Ot...	1-#12, 1-#12, 1-#12	RCP-1	24
25	TTB	1-#12, 1-#12, 1-#12	R	20.0 A	1	720 VA			1440 VA			1	20.0 A	L	1-#12, 1-#12, 1-#12	SIGNAGE	26
27	F-1	1-#12, 1-#12, 1-#12	Ot...	20.0 A	1		1656 VA			1440 VA		1	20.0 A	L	1-#12, 1-#12, 1-#12	SIGNAGE	28
29	F-2	1-#12, 1-#12, 1-#12	Ot...	20.0 A	1			1656 VA			400 VA	1	20.0 A	R	1-#12, 1-#12, 1-#12	RECEPT - WINDOW	30
31	OUTDOOR TV	1-#12, 1-#12, 1-#12	R	20.0 A	1	400 VA			400 VA			1	20.0 A	R	1-#12, 1-#12, 1-#12	RECEPT - WINDOW	32
33	OUTDOOR TV	1-#12, 1-#12, 1-#12	R	20.0 A	1		400 VA			400 VA		1	20.0 A	R	1-#12, 1-#12, 1-#12	RECEPT - WINDOW	34
35	OUTDOOR TV	1-#12, 1-#12, 1-#12	R	20.0 A	1			400 VA			400 VA	1	20.0 A	R	1-#12, 1-#12, 1-#12	RECEPT - WINDOW	36
37	OUTDOOR TV	1-#12, 1-#12, 1-#12	R	20.0 A	1	400 VA			720 VA			1	20.0 A	R	1-#12, 1-#12, 1-#12	RECEPTS - CONV	38
39	DATA RACK	1-#12, 1-#12, 1-#12	R	20.0 A	1		360 VA			700 VA		1	20.0 A	KT...	1-#12, 1-#12, 1-#12	SHUTTER	40
41	DATA RACK	1-#12, 1-#12, 1-#12	R	20.0 A	1			360 VA			700 VA	1	20.0 A	KT...	1-#12, 1-#12, 1-#12	SHUTTER	42
43	SHUTTER	1-#12, 1-#12, 1-#12	KT...	20.0 A	1	700 VA			700 VA			1	20.0 A	KT...	1-#12, 1-#12, 1-#12	SHUTTER	44
45	SHUTTER	1-#12, 1-#12, 1-#12	KT...	20.0 A	1		700 VA			700 VA		1	20.0 A	KT...	1-#12, 1-#12, 1-#12	SHUTTER	46
47	SHUTTER	1-#12, 1-#12, 1-#12	KT...	20.0 A	1			700 VA			700 VA	1	20.0 A	KT...	1-#12, 1-#12, 1-#12	SHUTTER	48
49	SHUTTER	1-#12, 1-#12, 1-#12	KT...	20.0 A	1	700 VA			180 VA			1	20.0 A	R	1-#12, 1-#12, 1-#12	RECEPT - LIGHT...	50
51	RECEPTS - WIFI	1-#12, 1-#12, 1-#12	R	20.0 A	1		540 VA										52
53	RECEPTS - WIFI	1-#12, 1-#12, 1-#12	R	20.0 A	1			360 VA									54
55																	56
57																	58
59																	60
61																	62
63																	64
					Tot...	14220 VA		14276 VA		15564 VA							
					Tot...	118.5 A		119.0 A		129.8 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	16920 VA	65.00%	10998 VA		
KTCH	8100 VA	65.00%	5265 VA	**Total Conn. Load:**	44060 VA
L	2880 VA	125.00%	3600 VA	**Total Est. Demand:**	32943 VA
R	16160 VA	80.94%	13080 VA	**Total Conn.:**	122.3 A
				Total Est. Demand:	91.4 A

Notes:
Motor = LARGEST MOTOR
MN = MOTOR (NON-SEASONAL)
L = LIGHTING (CONTINUOUS)
R = RECEPTACLE
C = CONTINUOUS
PN = POWER NON-SEASONAL (NON-CONTINUOUS)
VT = VERTICAL TRANSPORTATION

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LICENSED PROFESSIONAL ENGINEER
JASON ANDEJESKI
062-065380
STATE OF ILLINOIS

DATE: 09.05.2024

TRIA ARCHITECTURE

KITCHEN CONSULTANT: (P) 855.902.4422

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LANDSCAPE CONSULTANT: (P) 312.644.3379

STRUCTURAL CONSULTANT: (P) 630.357.0540

JSD

ebg associates inc. land service corp

Larson Engineering, Inc.

VILLAGE OF HOFFMAN ESTATES
VILLAGE GREEN CONCESSIONS
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER:	24-002
PROJECT MANAGER:	SLB / NSL
DRAWN BY:	
ISSUED FOR BID:	09/05/2024

DATE / REVISION

ELECTRICAL SCHEDULES

100%CD/IFB

E4.00

LIGHTING FIXTURE SCHEDULE

TYPE	CONSTRUCTION DESCRIPTION	PRODUCT MFR	PRODUCT MODEL	LIGHT SOURCE LUMENS DOWN	ELECTRICAL VOLT	ELECTRICAL INPUT WATTS	NOTE
EX1	EXIT/ELU COMBO	LITHONIA	ECC	104 lm	277 V	3 W	
F1	2X4 LED RECESSED	LITHONIA	CPX 2X4 4000LM 80 35K SWL MIN10 ZT MVOLT	4000 lm	277 V	33 W	--
F1E	2X4 LED RECESSED WITH EMERGENCY	LITHOINA	CPX 2X4 4000LM 80 35K SWL MIN10 ZT MVOLT E10WLCP	4000 lm	277 V	33 W	--
F2	1x4 RECESSED	LITHONIA	CPX 1X4 3200LM 80 35 SWL MIN10 ZT MVOLT	3200 lm	277 V	27 W	--
F2E	1x4 RECESSED	LITHONIA	CPX 1X4 3200LM SWL MIN10 ZT MVOLT E10WCLP	3200 lm	277 V	27 W	--
F3	4' LED STRIP WITH EMERGENCY BATTERY	LITHONIA	CLX L48 5000LM SEF WDL MVOLT GZ10 35K 80CRI THCLX E10WLCP	5000 lm	277 V	29 W	
OL1	RECESSED LED INTEGRAL WITH CANOPY	JUNO	4RLD G4 09LM 30K 90CRI 120 FRPC WWH L3	900 lm	277 V	12 W	--
OL2	LED IN-GROUND	Kim Lighting	LTVB1-FF-NF-36L-4K-UV-SR-RCA81	2900 lm	277 V	42 W	
P1	LED POLE LIGHT	Architectural Area Lighting	KM41-T4-FO-3040	3093 lm	277 V	33 W	PROVIDE WITH GFCI RECEPTACLE 24" FROM BASE
W1	EXTERIOR LED WALL PACK	LITHONIA	WDGE2 LED P4 30K 80CRI T4M MVOLT SRM PE E10WH	4672 lm	277 V	16 W	--
W2	18' LED LINEAR WALL WASH	PINNACLE	MW WHE 830 18' WH18" U FSD 1 FINISH V	13500 lm	277 V	113 W	--

EQUIPMENT CONNECTION SCHEDULE

TAG	DESCRIPTION	Load HP	MCA	Load Watts	VOLT	PHASE	Panel	Circuit Number	CONDUIT & WIRE SIZE	MOCP	DISC. PROVIDED BY	Remarks
EF-1	MAKE UP AIR UNIT		12.0 A	9976 W	480 V	3	EX PANEL 'A'	13,15,17	3#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	NEMA 3R DISCONNECT
EUH-1	ELECTRIC UNIT HEATER		17.3 A	4800 W	277 V	1	EX PANEL 'A'	2	3#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
EUH-2	ELECTRIC UNIT HEATER		17.3 A	4800 W	277 V	1	EX PANEL 'A'	4	3#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
F-1	GAS FIRED FURNACE		13.8 A		120 V	1	C	27	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
F-2	GAS FIRED FURNACE		13.8 A		120 V	1	C	29	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
HP-1	HEAT PUMP MINI SPLIT		30.0 A	6240 W	208 V	1	C	17,19	3#10CU, 1#10CU GND IN 3/4"C	50.0 A	EC	POWER INDOOR UNIT
HP-2	HEAT PUMP MINI SPLIT		30.0 A	6240 W	208 V	1	C	21,23	3#10CU, 1#10CU GND IN 3/4"C	50.0 A	EC	POWER INDOOR UNIT
KEF-1	KITCHEN EXHAUST FAN		6.9 A	5736 W	480 V	3	EX PANEL 'A'	12,14,16	3#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	NEMA 3R DISCONNECT
MUA-1	MAKE UP AIR UNIT		12.0 A	9976 W	480 V	3	EX PANEL 'A'	6,8,10	3#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	NEMA 3R DISCONNECT
RCP-1	RECIRCULATION PUMP		4.4 A		120 V	1	C	24	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	
WH-1	WATER HEATER		5.0 A		120 V	1	C	22	2#12CU, 1#12CU GND IN 3/4"C	20.0 A	EC	J-BOX

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STATE OF ILLINOIS

DATE: 09.05.2024

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VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

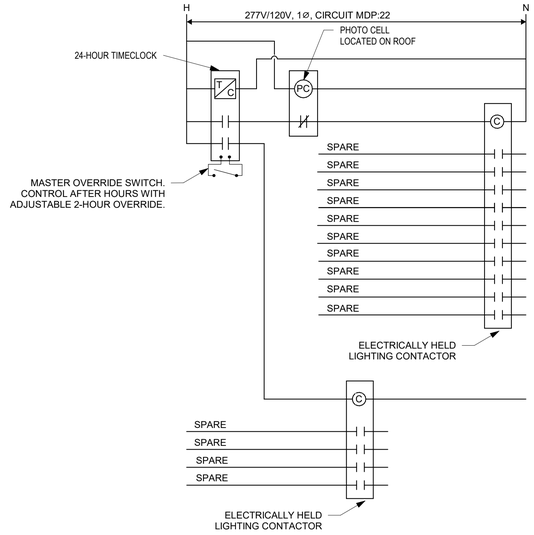
PROJECT NUMBER: 24-002
PROJECT MANAGER: SLB / NSL
DRAWN BY:
ISSUED FOR BID: 09/06/2024

REVISION | DATE

ELECTRICAL SCHEDULES

100%CD/IFB

E4.01



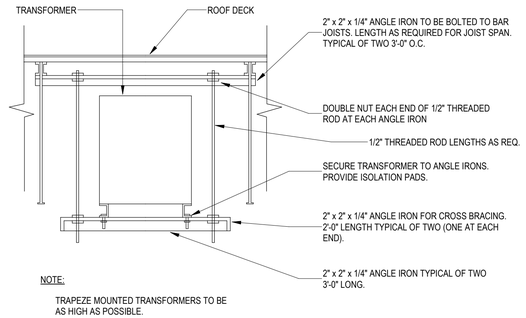
4 E5.00 LIGHTING CONTROL DIAGRAM
NOT TO SCALE

GENERAL NOTES

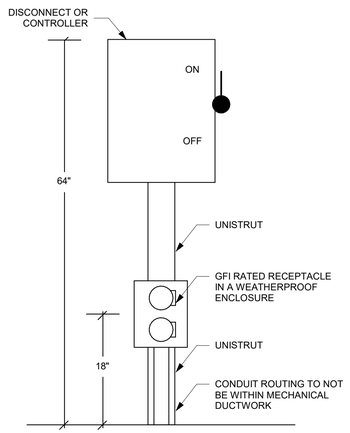
1. CATEGORY 5e CABLE APPROXIMATELY SIZED AT .22" O.D. CATEGORY 6 APPROXIMATELY SIZED AT 0.24"/0.26" O.D. VERIFY WITH APPROVED MANUFACTURER PRODUCT.
2. CABLE TABLE 5.9 FROM 2000 BICSI TDMM, 10TH EDITION MANUAL, CH.5 HORIZONTAL CABLING SYSTEM. INCORPORATES GUIDLINES FROM ANSI/TIA/EIA - 569-B.

TRADE SIZE	CABLE OUTSIDE DIAMETER cm (in.)									
	0.33 (0.13)	0.46 (0.18)	0.56 (0.22)	0.61 (0.24)	0.74 (0.29)	0.79 (0.31)	0.94 (0.37)	1.35 (0.53)	1.58 (0.62)	1.78 (0.70)
3/4	6	5	4	3	2	2	1	0	0	0
1	8	8	7	6	3	3	2	1	0	0
1-1/4	16	14	12	10	6	4	3	1	1	1
1-1/2	20	18	16	15	7	6	4	2	1	1
2	30	26	22	20	14	12	7	4	3	2
2-1/2	45	40	36	30	17	14	12	6	3	3
3	70	60	50	40	20	20	17	7	6	6
3-1/2	-	-	-	-	-	-	22	12	7	6
4	-	-	-	-	-	-	30	14	12	7

3 E5.00 CABLE CONDUIT FILL CHART
NOT TO SCALE



5 E5.00 TRAPEZE MOUNTED TRANSFORMER DETAIL
NOT TO SCALE

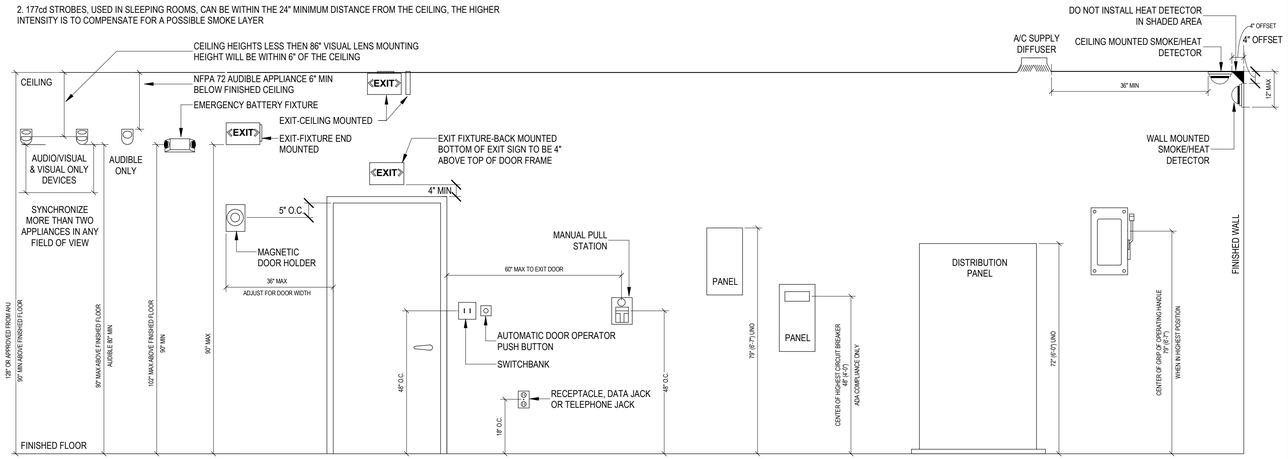


2 E5.00 ROOFTOP RECEPTACLE MOUNTING DETAIL
NOT TO SCALE

TYPICAL MOUNTING HEIGHTS

VISUAL MOUNTING APPLIANCE MOUNTING HEIGHT IN SLEEPING ROOMS:

1. MINIMUM DISTANCE IN SLEEPING ROOMS IS 24" FROM CEILING TO THE TOP OF LENS FOR 110cd STROBES WITHIN 16' OF PILLOW
2. 177cd STROBES, USED IN SLEEPING ROOMS, CAN BE WITHIN THE 24" MINIMUM DISTANCE FROM THE CEILING, THE HIGHER INTENSITY IS TO COMPENSATE FOR A POSSIBLE SMOKE LAYER



1 E5.00 EQUIPMENT AND DEVICE MOUNTING DETAIL
NOT TO SCALE

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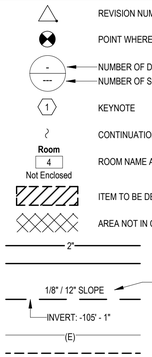
ELECTRICAL DETAILS

100%CD/IFB

E5.00

GENERAL MECHANICAL SYMBOLS



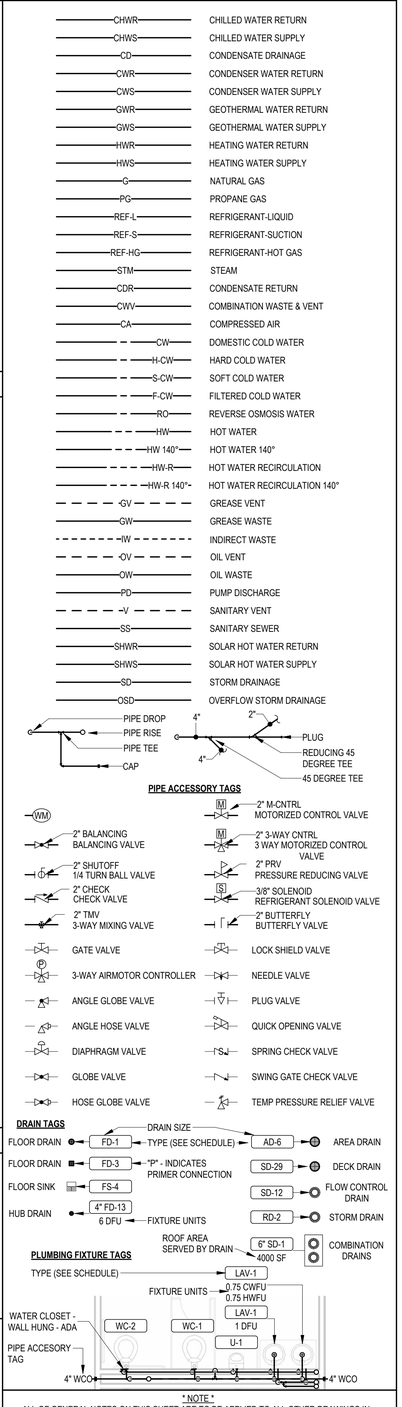
ABBREVIATIONS

Ø	ROUND	LVR	LOUVER
ABV	ABOVE	LWT	LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	M/A	MIXED AIR
AD	AREA DRAIN	MAX	MAXIMUM
ADD	ADDENDUM	MBH	ONE THOUSAND BTU PER HOUR
AFF	ABOVE FINISHED FLOOR	MCF	ONE THOUSAND CUBIC FEET
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MD	MOTORIZED DAMPER
ALT	ALTERNATE	MECH	MECHANICAL
AP	ACCESS PANEL	MFR	MANUFACTURER
ARCH	ARCHITECT/ARCHITECTURAL	MIN	MINIMUM
BFF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BLW	BELOW	MTR	MOTOR
BTU	BRITISH THERMAL UNITS	MU/A	MAKE-UP/AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NOISE CRITERIA
CAP	CAPACITY	NC	NORMALLY CLOSED
CB	CATCH BASIN	NIC	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NO	NUMBER
CLG	CEILING	NO	NORMALLY OPEN
CO	CLEAN OUT	NTS	NOT TO SCALE
CW	COLD WATER	O	OXYGEN
D	DEGREE	O/A	OUTSIDE AIR
DB	DRY BULB	ORD	OVERFLOW ROOF DRAIN
DIA	DIAMETER	PD	PRESSURE DROP
DN	DOWN	PIV	POST INDICATOR VALVE
DW	DISTILLED WATER	PLBG	PLUMBING
EA	EACH	PRESS	PRESSURE
EAT	ENTERING AIR TEMPERATURE	PRV	PRESSURE REDUCING VALVE
ELEC	ELECTRICAL	PSI	POUNDS PER SQUARE INCH
EQUIP	EQUIPMENT	PSIG	POUNDS PER SQUARE INCH GAUGE
EWC	ELECTRIC WATER COOLER	PWR	POWER
EWT	ENTERING WATER TEMPERATURE	R	DUCT RISER
E/A	EXHAUST AIR	R/A	RETURN AIR
EXIST	EXISTING	RCP	RADIANT CEILING PANEL
F	DEGREES FAHRENHEIT	RD	ROOF DRAIN
FCO	FLOOR CLEAN OUT	REC	RECESSED
FD	FLOOR DRAIN	RED	REDUCER
FDC	FIRE DEPARTMENT CONNECTION	RH	RELATIVE HUMIDITY
FL	FLOOR	RL/A	RELIEF AIR
FO	FUEL OIL	RM	ROOM
FOV	FUEL OIL VENT	RPM	REVOLUTIONS PER MINUTE
FOR	FUEL OIL RETURN	RW	RAIN WATER
FOS	FUEL OIL SUPPLY	SF	SQUARE FOOT
FPM	FEET PER MINUTE	S/A	SUPPLY AIR
FS	FLOOR SINK	SAN	SANITARY
FT	FOOT/FEET	SF	SQUARE FOOT
FTR	FIN TUBE RADIATION	SD	SMOKE DAMPER
GAL	GALLON	SM	SURFACE MOUNT
GF	GAS-FIRED	SP	STANDPIPE
GC	GENERAL CONTRACTOR	SP	STATIC PRESSURE
GPM	GALLONS PER MINUTE	STM	STEAM
GW	GREASE WASTE	T	THERMOSTAT
HB	HOSE BIB	TD	TEMPERATURE DROP
HP	HORSE POWER	TDR	TRENCH DRAIN
HTG	HEATING	TEMP	TEMPERATURE
HTR	HEATER	TYP	TYPICAL
HW	HOT WATER	UG	UNDERGROUND
HYD	HYDRANT	VAC	VACUUM
ID	INDIRECT	V	VENT
IN	INCH	VAV	VARIABLE AIR VOLUME
INV	INVERT	VENT	VENTILATION
LB	POUND	VTR	VENT THROUGH ROOF
LB/HR	POUNDS PER HOUR	W	WASTE
LAT	LEAVING AIR TEMPERATURE	WB	WET BULB
LP	LOW PRESSURE	WCO	WALL CLEAN OUT
LPG	LIQUEFIED PETROLEUM GAS	WH	WALL HYDRANT

EQUIPMENT ABBREVIATIONS

AC	AIR CONDITIONING UNIT	ET	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	EWH	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOILER	GI	GREASE INTERCEPTOR
CH	CHILLER	GRV	GRAVITY ROOF VENTILATOR
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT
CHWP	CHILLED WATER PUMP	PRV	POWER ROOF VENTILATOR
DBP	DOMESTIC WATER BOOSTER PUMP	RE	RETURN/EXHAUST FAN
DC	DUCT MOUNTED COIL	RTU	ROOFTOP UNIT
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP
EF	EXHAUST FAN	UH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	WH	WATER HEATER

PLUMBING AND PIPING SYMBOLS



PIPE ACCESSORY TAGS

DRAIN TAGS

PLUMBING FIXTURE TAGS

* NOTE *

ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

PROJECT GENERAL NOTES

1. REMOVE ALL UNUSED PIPING, DUCTWORK AND ACCESSORIES FROM PREVIOUS STRUCTURE.
2. COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, AND EQUIPMENT TO PREVENT CONFLICTS.
3. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AS WELL AS THOSE WHICH CAN BE REASONABLY ANTICIPATED INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.
4. FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.
5. LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.
6. ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.
7. LOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS. TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT.
8. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL AS PRESCRIBED IN CSFM STANDARD 43-1 AND SHALL BE U.L. LISTED.
9. PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.
10. MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE, VISUAL INSPECTION OR HAND OPERATION. WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.
11. ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.
12. REFER TO HVAC SERIES DRAWINGS FOR GAS AND A.C. CONDENSATE DRAIN PIPING.
13. PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
14. FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.
15. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
16. LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED ON THE DRAWING, ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.
17. INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.
18. THE CONTRACTOR'S WORK SCHEDULE SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER.
19. PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL MECHANICAL EQUIPMENT, PLUMBING FIXTURES, AND DIFFUSERS.
20. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.
21. PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.

PLUMBING GENERAL NOTES

1. FIELD VERIFY ALL NEW WATER, WASTE, AND VENT PIPING CONNECTIONS AND PROVIDE NEW CONNECTIONS AS REQUIRED FOR PROPERLY OPERATING SYSTEMS.
2. PITCH ALL UNDERFLOOR STORM OR SANITARY WASTE PIPING 4" AND GREATER AT 1/8" PER FOOT, UNLESS NOTED OTHERWISE. PITCH ALL OTHER STORM AND SANITARY WASTE PIPING AT 1/4" PER FOOT UNLESS OTHERWISE NOTED.
3. FIELD VERIFY LOCATION AND INVERTS OF SITE UTILITIES PRIOR TO INSTALLATION.
4. ROUTE DOMESTIC WATER, FIRE PROTECTION, SANITARY SEWER, AND STORM SEWER SERVICES TO SITE UTILITIES 5'-0" FROM BUILDING UNLESS NOTED OTHERWISE. REFER TO CIVIL PLANS.
5. WASTE AND VENT PIPING BELOW FLOOR AND THROUGH FLOOR SHALL BE 2" MINIMUM.
6. PROVIDE CLEANOUT IN ACCESSIBLE LOCATION AT THE BASE OF ALL PLUMBING RISERS.

DISINFECTION OF POTABLE WATER SYSTEMS

1. SYSTEM (OR PART THEREOF) SHALL BE FILLED WITH A CHLORINE SOLUTION CONTAINING AT 50 PARTS PER MILLION OF CHLORINE, VALVED OFF AND ALLOWED TO STAND FOR 24 HOURS OR FILLED WITH A CHLORINE SOLUTION CONTAINING 200 PARTS PER MILLION OF CHLORINE AND ALLOWED TO STAND FOR THREE (3) HOURS.
2. AFTER REQUIRED (STANDING) TIME, SYSTEM SHALL BE FLUSHED WITH CLEAN POTABLE WATER UNTIL CHLORINE LEVEL IS WITHIN ACCEPTABLE LIMITS FOR POTABLE WATER.

INSPECTIONS AND TESTS

1. TESTING SHALL BE DONE IN THE PRESENCE OF GOVERNING AUTHORITY AND OWNER'S REPRESENTATIVE. PROVIDE FIVE (5) DAYS NOTICE TO THE OWNER, ARCHITECT OF RECORD AND GOVERNING AUTHORITY. PROVIDE ALL NECESSARY EQUIPMENT, MATERIAL AND LABOR TO PERFORM TEST.
2. ROUGHED-IN PLUMBING: THE DRAINAGE AND VENT PIPING SYSTEMS SHALL BE TESTED UPON COMPLETION OF ROUGHED-IN PIPING INSTALLATION, BY USING WATER OR AIR TO PROVE WATERTIGHT.
3. WATER TEST: WATER TEST SHALL BE APPLIED TO THE DRAINAGE SYSTEM EITHER IN ITS ENTIRETY OR IN SECTIONS AFTER PIPING HAS BEEN ROUGHED-IN. DRAINAGE SYSTEM SHALL NOT BE TESTED WITH LESS THAN TEN (10) FOOT HEAD OF WATER. THE WATER SHALL BE KEPT IN THE SYSTEM OR SECTION BEING TESTED FOR AT LEAST FIFTEEN (15) MINUTES BEFORE INSPECTION STARTS. TESTING OF THE SYSTEM SHALL CONFIRM THAT THE SYSTEM IS TIGHT AT ALL POINTS.
4. AIR TEST: AIR TEST SHALL BE MADE BY ATTACHING AN AIR COMPRESSOR TESTING APPARATUS TO A SUITABLE OPENING AFTER CLOSING ALL OTHER INLETS AND OUTLETS TO THE SYSTEM. FORCE AIR INTO THE SYSTEM UNTIL THERE IS A UNIFORM GAUGE PRESSURE OF FIVE (5) PI OR SUFFICIENT TO BALANCE A COLUMN OF MERCURY TEN (10) INCHES IN HEIGHT. PRESSURE SHALL BE HELD WITHOUT INTRODUCTION OF ADDITIONAL AIR FOR A PERIOD OF AT LEAST FIFTEEN (15) MINUTES.
5. WATER SUPPLY SYSTEM: WATER SUPPLY SYSTEM SHALL BE TESTED AND PROVED WATERTIGHT UPON COMPLETION OF A SECTION OR THE ENTIRE SYSTEM. SYSTEM SHALL BE TESTED UNDER A WATER PRESSURE OF AT LEAST 1.5 TIMES THE SYSTEM PRESSURE, BUT AT LEAST 100 PSI AT A MINIMUM BY AIR OR WATER. TESTING PRESSURE SHALL BE MAINTAINED FOR A LEAST FIFTEEN (15) MINUTES AND WATER USED FOR TEST SHALL BE FROM POTABLE WATER.

PLUMBING SHEET INDEX

P0.00	PLUMBING TITLE SHEET
P1.00	UNDERFLOOR PLUMBING PLAN
P1.10	SANITARY & VENT PLUMBING PLAN
P1.11	SANITARY & VENT RISER DIAGRAMS
P1.20	DOMESTIC WATER PLUMBING PLAN
P1.21	DOMESTIC WATER RISER DIAGRAM
P1.30	STORM WATER PLUMBING PLAN
P1.31	STORM WATER ROOF PLUMBING PLAN
P2.00	PLUMBING DETAILS
P2.01	GREASE INTERCEPTOR DETAILS
P3.00	PLUMBING SCHEDULES

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VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

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PROJECT NUMBER:	24-002	REVISION	DATE
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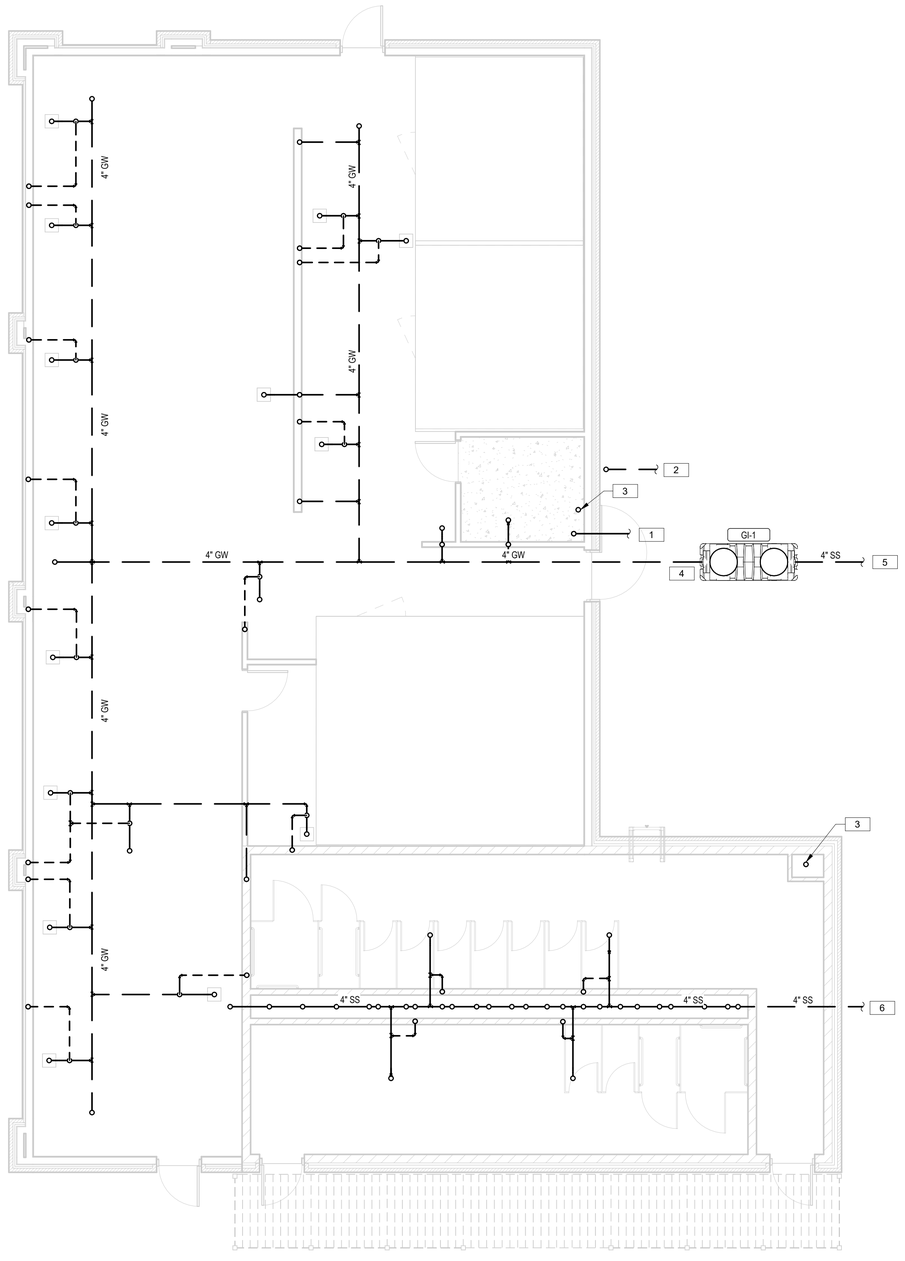
ISSUED FOR BID:	09/05/2024		

PLUMBING TITLE SHEET

100%CD/IFB

P0.00



PLUMBING SHEET NOTES	
1	THIS PLAN IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE LOCATION OR DIMENSION OF THE WORK. CONTRACTOR SHALL VERIFY EXACT LOCATION OF PIPING AND PENETRATIONS.
2	CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE NEW AND EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE APPROVAL THE CITY INSPECTOR.
3	REPAIR WALL SURFACE AFTER INSTALLATION AND INSPECTION OF EACH PLUMBING FIXTURE AND PIPING INSTALLED.
4	ALL WALL-MOUNTED ACCESS PANELS SHALL BE LOCKABLE TYPE.
5	ABOVE-GRADE WASTE PIPE SHALL BE RUN AT 2% GRADE. BELOW-GRADE WASTE PIPE SHALL BE RUN AT 1% GRADE.
6	ALL CONDENSATE DRAIN PIPE SHALL BE RUN AT 1% GRADE.
7	MAINTAIN MINIMUM 10-0" SEPARATION BETWEEN FLUE AND PLUMBING VENT OUTLETS AND ANY FRESH AIR INTAKE. COORDINATE WITH HVAC CONTRACTOR.
8	FLOORS SHALL SLOPE TO DRAINS AT 1% MINIMUM SLOPE. SEE ARCHITECTURAL PLANS FOR MORE INFORMATION.
9	PROVIDE ALL FLOOR DRAINS, FLOOR SINKS, TRENCH DRAINS, ETC. WITH TRAP GUARD DEVICES (ASSE 1072 COMPLIANT).
10	PROVIDE WALL CLEAN OUTS IN ALL VENT RISERS ON BRANCHES LONGER THAN 5'-0" AND ON BRANCHES SERVING SINKS OR URINALS.
11	SEE RISER DIAGRAMS FOR ADDITIONAL SIZING INFORMATION.

KEYNOTES	
1	INCOMING 6" COMBINED DOMESTIC AND FIRE PROTECTION WATER LINE ROUTED FROM UNDERGROUND IN MECHANICAL ROOM. SERVICE TO SPLIT INTO 2-1/2" DOMESTIC COLD WATER SERVICE LINE AND ASSUMED 4" FIRE PROTECTION LINE. DOMESTIC CW TO BE ROUTED TO METER LOCATED IN MECHANICAL ROOM. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
2	3" NATURAL GAS SERVICE LINE ROUTED TO METER ON EXTERIOR WALL OUTSIDE OF MECHANICAL ROOM. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
3	4" STORM WATER PIPE ROUTED UNDERGROUND TO NEAREST STORM WATER CITY CONNECTION. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
4	4" GREASE WASTE ROUTED FROM KITCHEN FIXTURES TO GREASE INTERCEPTOR INSTALLED FLUSH WITH GROUND SURFACE. REFER TO GREASE INTERCEPTOR SCHEDULE AND DETAILS FOR ADDITIONAL INFORMATION.
5	4" SANITARY SEWER LEAVING GREASE INTERCEPTOR SHALL BE ROUTED TO CITY CONNECTION. REFER TO CIVIL DRAWINGS FOR CONTINUATION. APPROXIMATE INVERT DEPTH LEAVING GREASE INTERCEPTOR CALCULATED TO BE 2'-0" B.F.F. CONTRACTOR SHALL DETERMINE EXACT LOCATION AND INVERT IN FIELD.
6	4" SANITARY SEWER SERVING BUILDING SHALL BE ROUTED TO CITY CONNECTION. REFER TO CIVIL DRAWINGS FOR CONTINUATION. APPROXIMATE INVERT DEPTH LEAVING BUILDING CALCULATED TO BE 1'-6" B.F.F. CONTRACTOR SHALL DETERMINE EXACT LOCATION AND INVERT IN FIELD.

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1 / P1.00 UNDERFLOOR PLUMBING PLAN
3/16" = 1'-0"

LICENSED PROFESSIONAL ENGINEER
JASON ANDEJESKI
062-065380
STATE OF ILLINOIS

DATE: 09.05.2024

TRIA ARCHITECTURE

KITCHEN CONSULTANT: cdfe associates inc. food service design (P) 855.952.4422

CIVIL CONSULTANT: JDC FERGUSON (P) 800.728.7805

LANDSCAPE CONSULTANT: JSD (P) 312.644.3379

STRUCTURAL CONSULTANT: Larson Engineering, Inc. (P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

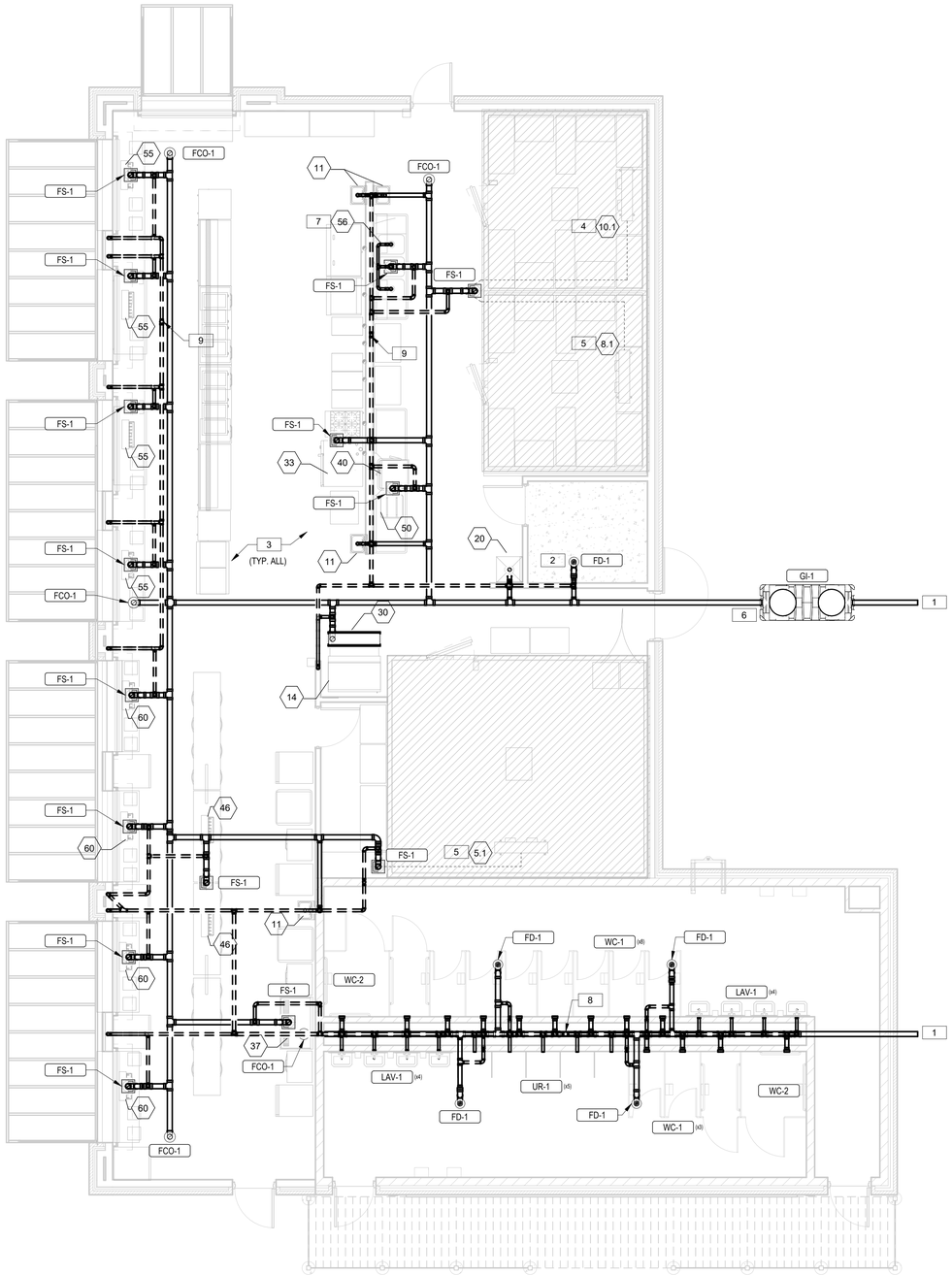
PROJECT NUMBER:	24-002
PROJECT MANAGER:	
DRAWN BY:	SLB / NSL
ISSUED FOR BID:	09/09/2024

REVISION / DATE

UNDERFLOOR PLUMBING PLAN

100%CD/IFB

P1.00



1 SANITARY & VENT PLUMBING PLAN
P1.10 3/16" = 1'-0"

PLUMBING SHEET NOTES	
1	THIS PLAN IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE LOCATION OR DIMENSION OF THE WORK. CONTRACTOR SHALL VERIFY EXACT LOCATION OF PIPING AND PENETRATIONS.
2	CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE NEW AND EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE APPROVAL THE CITY INSPECTOR.
3	REPAIR WALL SURFACE AFTER INSTALLATION AND INSPECTION OF EACH PLUMBING FIXTURE AND PIPING INSTALLED.
4	ALL WALL-MOUNTED ACCESS PANELS SHALL BE LOCKABLE TYPE.
5	ABOVE-GRADE WASTE PIPE SHALL BE RUN AT 2% GRADE. BELOW-GRADE WASTE PIPE SHALL BE RUN AT 1% GRADE.
6	ALL CONDENSATE DRAIN PIPE SHALL BE RUN AT 1% GRADE.
7	MAINTAIN MINIMUM 10-0" SEPARATION BETWEEN FLUE AND PLUMBING VENT OUTLETS AND ANY FRESH AIR INTAKE. COORDINATE WITH HVAC CONTRACTOR.
8	FLOORS SHALL SLOPE TO DRAINS AT 1% MINIMUM SLOPE. SEE ARCHITECTURAL PLANS FOR MORE INFORMATION.
9	PROVIDE ALL FLOOR DRAINS, FLOOR SINKS, TRENCH DRAINS, ETC. WITH TRAP GUARD DEVICES (ASSE 1072 COMPLIANT).
10	PROVIDE WALL CLEAN OUTS IN ALL VENT RISERS ON BRANCHES LONGER THAN 5'-0" AND ON BRANCHES SERVING SINKS OR URINALS.
11	SEE RISER DIAGRAMS FOR ADDITIONAL SIZING INFORMATION.

KEYNOTES	
1	4" SANITARY LINE TO CONNECT INTO CITY SANITARY SERVICE. SEE CIVIL SHEET FOR CONTINUATION.
2	WATER HEATER CONDENSATE LINE TO BE ROUTED TO NEAREST OPEN SITE DRAIN AND TERMINATED WITH AIR GAP NOT LESS THAN TWICE THE EFFECTIVE DIAMETER.
3	NUMBER TAGS ARE REPRESENTATIVE OF FIXTURE/EQUIPMENT PROVIDED BY KITCHEN CONSULTANT. REFER TO FIXTURE SCHEDULES AND KITCHEN DRAWINGS FOUND ON SHEET P3.0 FOR MORE INFORMATION. (TYP. ALL).
4	P.C. TO COORDINATE ROUTING OF CONDENSATE LINE SERVING FREEZER CONDENSING UNIT TO NEAREST FLOOR SINK.
5	P.C. TO COORDINATE ROUTING OF CONDENSATE LINE SERVING COOLER CONDENSING UNIT TO NEAREST FLOOR SINK.
6	P.C. TO COORDINATE INVERT OF GREASE WASTE LINE TO INLET CONNECTION POINT OF GREASE INTERCEPTOR.
7	3- COMPARTMENT SINK TO DISCHARGE INTO FLOOR SINK. DISCHARGE LINE TO BE TERMINATED WITH AIR GAP NOT LESS THAN TWICE THE EFFECTIVE DIAMETER.
8	3" VTR TO BE ROUTED UP THROUGH ROOF. MAINTAIN A MINIMUM OF 10'-0" FROM ALL FRESH AIR INTAKES. (TYP. ALL).
9	2-1/2" VTR TO BE ROUTED UP THROUGH ROOF. MAINTAIN A MINIMUM OF 10'-0" FROMALL ALL FRESH AIR INTAKES. (TYP. ALL)

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JASON ANDEJESKI
062-065380
STATE OF ILLINOIS
DATE: 09.05.2024

TRIA ARCHITECTURE

KITCHEN CONSULTANT: JSD — 1401 E. 75TH AVENUE, SUITE 231, DYER, INDIANA 46311 — (P) 855.952.4422
CIVIL CONSULTANT: eda associates inc. civil service design — 150 N. RIVER ROAD, SUITE 210, DES PLAINES, IL 60016 — (P) 800.728.7805
LANDSCAPE CONSULTANT: JSD — 1401 E. 75TH AVENUE, SUITE 231, DYER, INDIANA 46311 — (P) 312.644.3379
STRUCTURAL CONSULTANT: Larson Engineering, Inc. — 1488 BOND STREET, SUITE 100, NAPERVILLE, ILLINOIS 60563 — (P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES
VILLAGE GREEN CONCESSIONS
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

REVISION	DATE

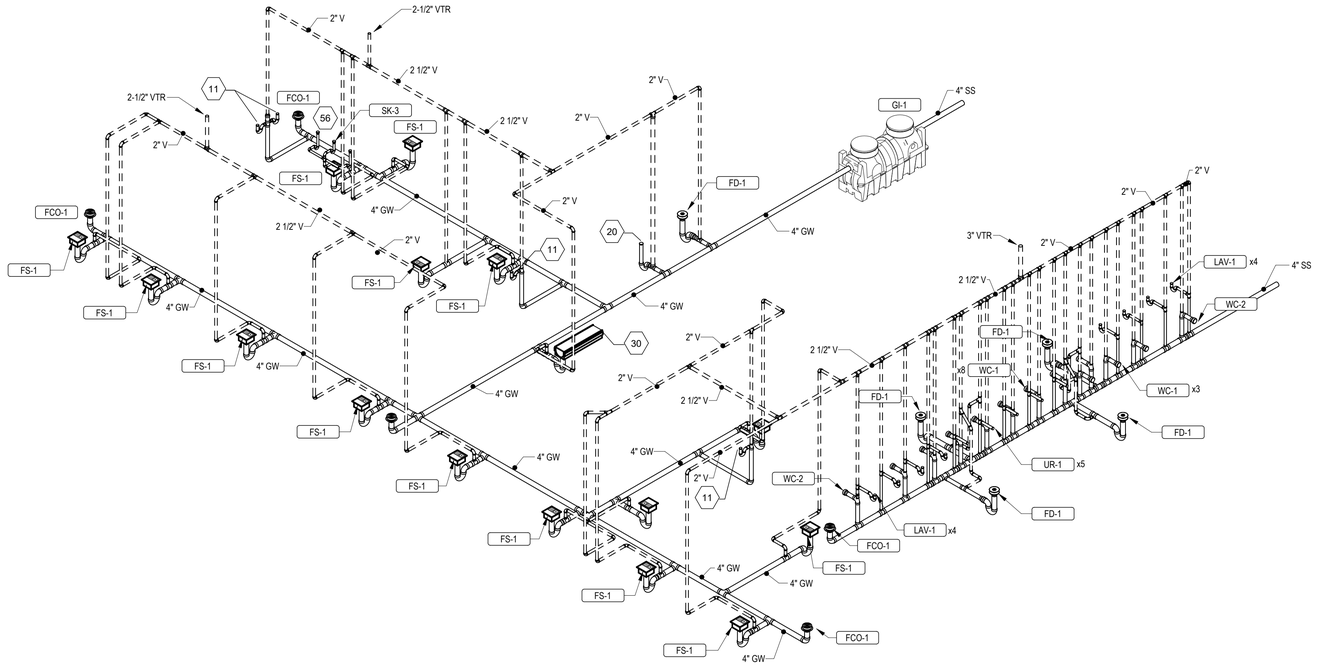
PROJECT NUMBER: 24-002
PROJECT MANAGER: SLB / NSL
DRAWN BY:
ISSUED FOR BID: 09/05/2024

SANITARY & VENT PLUMBING PLAN

100%CD/IFB

P1.10

PLUMBING SHEET NOTES	
1	THIS PLAN IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE LOCATION OR DIMENSION OF THE WORK. CONTRACTOR SHALL VERIFY EXACT LOCATION OF PIPING AND PENETRATIONS.
2	CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE NEW AND EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE APPROVAL THE CITY INSPECTOR.
3	REPAIR WALL SURFACE AFTER INSTALLATION AND INSPECTION OF EACH PLUMBING FIXTURE AND PIPING INSTALLED.
4	ALL WALL-MOUNTED ACCESS PANELS SHALL BE LOCKABLE TYPE.
5	ABOVE-GRADE WASTE PIPE SHALL BE RUN AT 2% GRADE. BELOW-GRADE WASTE PIPE SHALL BE RUN AT 1% GRADE.
6	ALL CONDENSATE DRAIN PIPE SHALL BE RUN AT 1% GRADE.
7	MAINTAIN MINIMUM 10-0" SEPARATION BETWEEN FLUE AND PLUMBING VENT OUTLETS AND ANY FRESH AIR INTAKE. COORDINATE WITH HVAC CONTRACTOR.
8	FLOORS SHALL SLOPE TO DRAINS AT 1% MINIMUM SLOPE. SEE ARCHITECTURAL PLANS FOR MORE INFORMATION.
9	PROVIDE ALL FLOOR DRAINS, FLOOR SINKS, TRENCH DRAINS, ETC. WITH TRAP GUARD DEVICES (ASSE 1072 COMPLIANT).
10	PROVIDE WALL CLEAN OUTS IN ALL VENT RISERS ON BRANCHES LONGER THAN 5'-0" AND ON BRANCHES SERVING SINKS OR URINALS.
11	SEE RISER DIAGRAMS FOR ADDITIONAL SIZING INFORMATION.



1 P1.11 WASTE & VENT RISER DIAGRAM

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JASON ANDEJESKI
062-065380
STATE OF ILLINOIS

DATE: 09.05.2024

TRIA ARCHITECTURE

KITCHEN CONSULTANT: cafe associates inc. food service design 161 N. KLEIN STREET, SUITE 21, GENEVA, IL 60134 (P) 855.922.4422

CIVIL CONSULTANT: HPC Hanson Professional Services Inc. 312 W. ARGYLE STREET, 2ND FLOOR CHICAGO, ILLINOIS 60640 (P) 800.728.7805

LANDSCAPE CONSULTANT: JSD 1431 E. 75TH AVENUE, SUITE 231 DYER, INDIANA 46311 (P) 312.644.3379

STRUCTURAL CONSULTANT: Larson Engineering, Inc. 1488 BOND STREET, SUITE 100 NAPERVILLE, ILLINOIS 60563 (P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

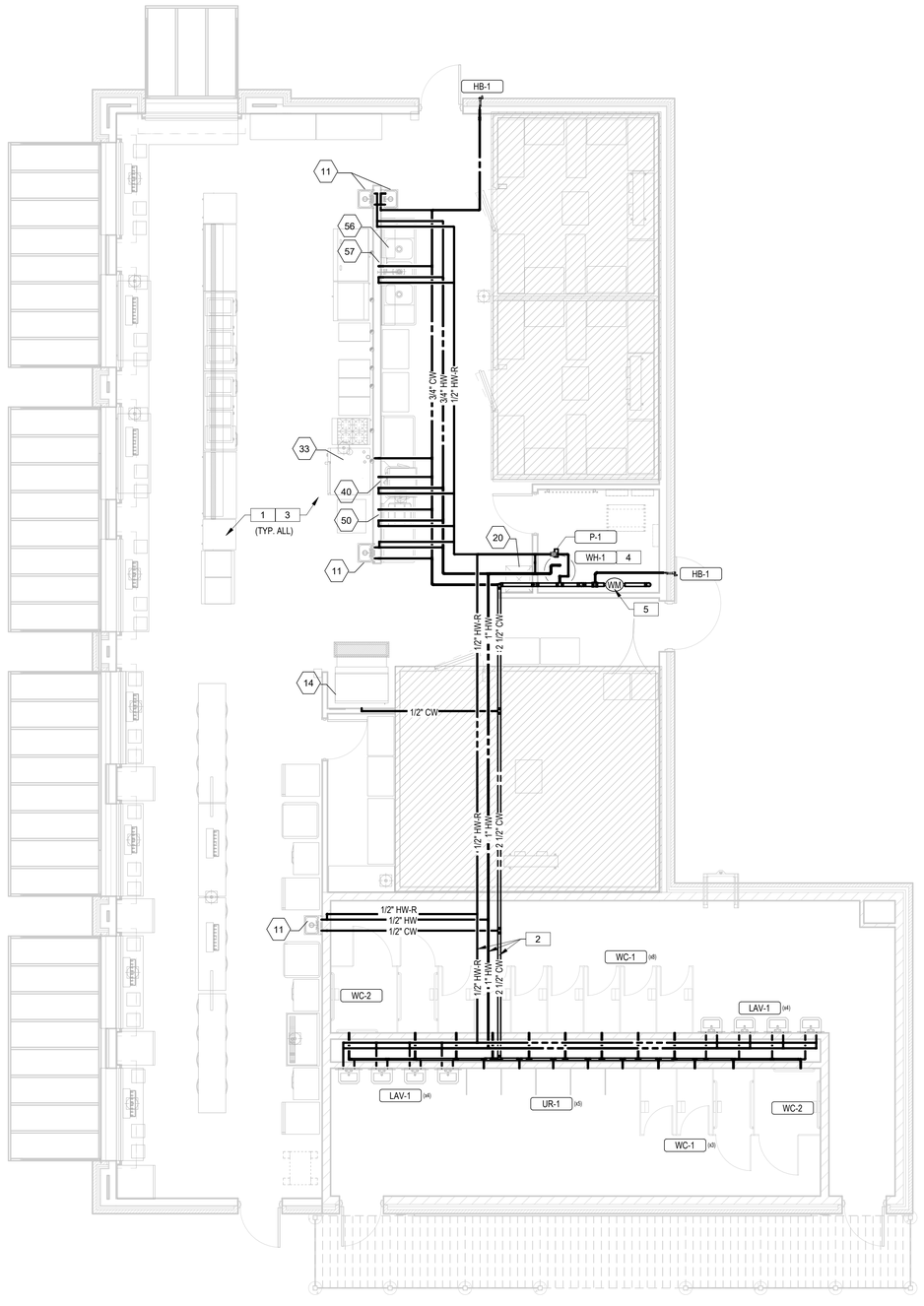
PROJECT NUMBER: 24-002
PROJECT MANAGER:
DRAWN BY: SLB / NSL
ISSUED FOR BID: 09/06/2024

REVISION	DATE

SANITARY & VENT RISER DIAGRAMS

100%CD/IFB

P1.11



1 P1.20 DOMESTIC WATER PLUMBING PLAN
3/16" = 1'-0"

PLUMBING SHEET NOTES	
1	THIS PLAN IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE LOCATION OR DIMENSION OF THE WORK. CONTRACTOR SHALL VERIFY EXACT LOCATION OF PIPING AND PENETRATIONS.
2	CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE NEW AND EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE APPROVAL THE CITY INSPECTOR.
3	REPAIR WALL SURFACE AFTER INSTALLATION AND INSPECTION OF EACH PLUMBING FIXTURE AND PIPING INSTALLED.
4	ALL WALL-MOUNTED ACCESS PANELS SHALL BE LOCKABLE TYPE.
5	ABOVE-GRADE WASTE PIPE SHALL BE RUN AT 2% GRADE. BELOW-GRADE WASTE PIPE SHALL BE RUN AT 1% GRADE.
6	ALL CONDENSATE DRAIN PIPE SHALL BE RUN AT 1% GRADE.
7	MAINTAIN MINIMUM 10-0" SEPARATION BETWEEN FLUE AND PLUMBING VENT OUTLETS AND ANY FRESH AIR INTAKE. COORDINATE WITH HVAC CONTRACTOR.
8	FLOORS SHALL SLOPE TO DRAINS AT 1% MINIMUM SLOPE. SEE ARCHITECTURAL PLANS FOR MORE INFORMATION.
9	PROVIDE ALL FLOOR DRAINS, FLOOR SINKS, TRENCH DRAINS, ETC. WITH TRAP GUARD DEVICES (ASSE 1072 COMPLIANT).
10	PROVIDE WALL CLEAN OUTS IN ALL VENT RISERS ON BRANCHES LONGER THAN 5'-0" AND ON BRANCHES SERVING SINKS OR URINALS.
11	SEE RISER DIAGRAMS FOR ADDITIONAL SIZING INFORMATION.

KEYNOTES	
1	NUMBER TAGS ARE REPRESENTATIVE OF FIXTURE/EQUIPMENT PROVIDED BY KITCHEN CONSULTANT. REFER TO FIXTUE SCHEDULES AND KITCHEN DRAWINGS FOUND ON SHEET P3.0 FOR MORE INFORMATION. (TYP. ALL).
2	P.C. TO PROVIDE AND INSTALL SHUTOFF VALVES FOR RESTOOM CW/HW/HWR BRANCHES. PROVIDE ACCESS PANEL IN CEILING FOR SERVICIABILITY OF SHUTOFF VALVES.
3	P.C. TO PROVIDE AND INSTALL LOCALIZED SHUTOFF VALVES FOR ALL KITCHEN FIXTURES. (TYP. ALL).
4	P.C. TO COORDINATE ROUTING OF CONCENTRIC VENTING KIT TO SERVE WATER HEATER. REFER TO WATER HEATER SCHEDULE ON SHEET P2.0 FOR ADDITIONAL INFORMATION. MAINTAIN A MINIMUM OF 10'-0" FROM ALL FRESH AIR INTAKES.
5	P.C. TO FURNISH AND INSTALL RPZ BACKFLOW PREVENTOR, AND 2-1/2" WATER METER IN ACCORDANCE WITH ALL LOCAL AND STATE CODES.

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062-065380
STATE OF ILLINOIS
DATE: 09.05.2024

TRIA ARCHITECTURE

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CIVIL CONSULTANT: HPC Hinrichsen — (P) 800.728.7805

LANDSCAPE CONSULTANT: JSD — (P) 312.644.3379

STRUCTURAL CONSULTANT: Larson Engineering, Inc. — (P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER: 24-002
PROJECT MANAGER: SLB / NSL
DRAWN BY:
ISSUED FOR BID: 09/06/2024

REVISION	DATE

DOMESTIC WATER PLUMBING PLAN

100%CD/IFB

P1.20

PLUMBING SHEET NOTES	
1	THIS PLAN IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE LOCATION OR DIMENSION OF THE WORK. CONTRACTOR SHALL VERIFY EXACT LOCATION OF PIPING AND PENETRATIONS.
2	CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE NEW AND EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE APPROVAL THE CITY INSPECTOR.
3	REPAIR WALL SURFACE AFTER INSTALLATION AND INSPECTION OF EACH PLUMBING FIXTURE AND PIPING INSTALLED.
4	ALL WALL-MOUNTED ACCESS PANELS SHALL BE LOCKABLE TYPE.
5	ABOVE-GRADE WASTE PIPE SHALL BE RUN AT 2% GRADE. BELOW-GRADE WASTE PIPE SHALL BE RUN AT 1% GRADE.
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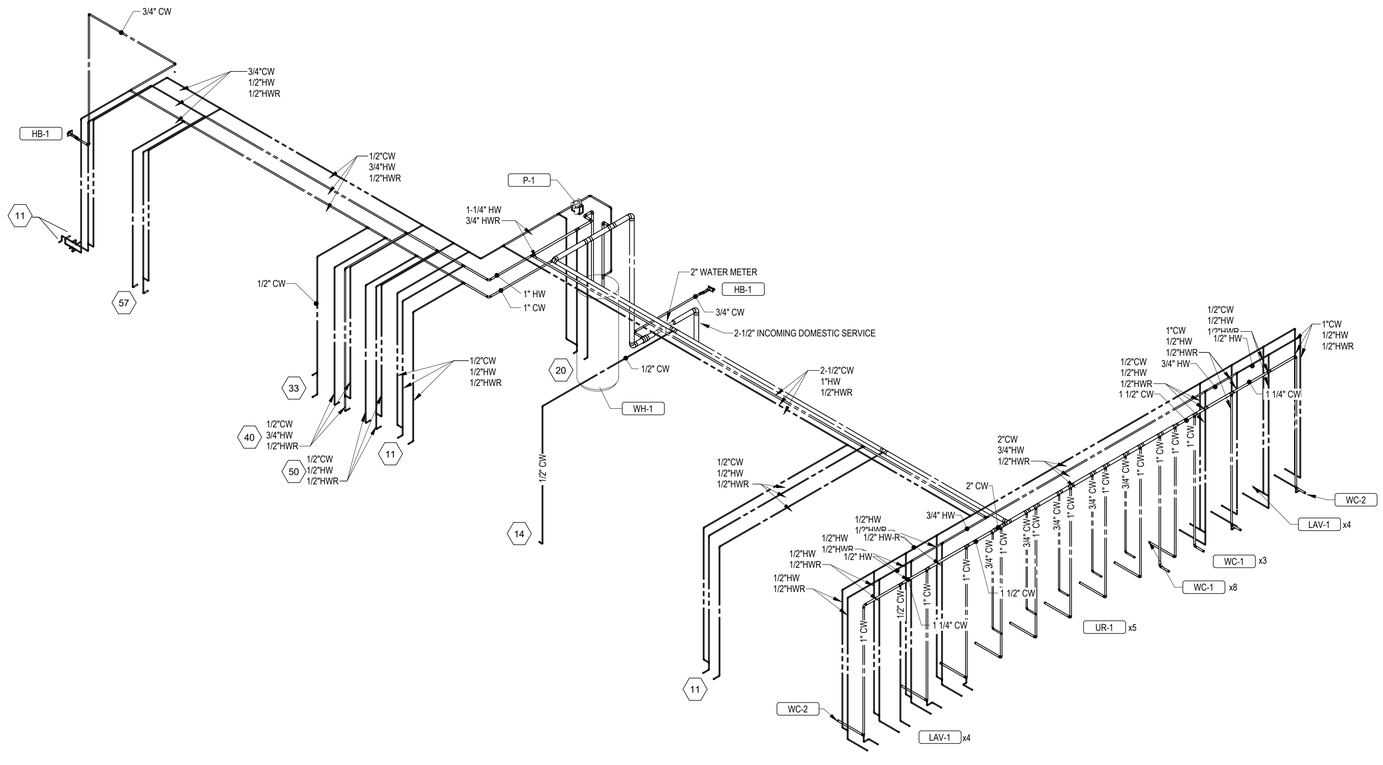
7	MAINTAIN MINIMUM 10-0" SEPARATION BETWEEN FLUE AND PLUMBING VENT OUTLETS AND ANY FRESH AIR INTAKE. COORDINATE WITH HVAC CONTRACTOR.
8	FLOORS SHALL SLOPE TO DRAINS AT 1% MINIMUM SLOPE. SEE ARCHITECTURAL PLANS FOR MORE INFORMATION.
9	PROVIDE ALL FLOOR DRAINS, FLOOR SINKS, TRENCH DRAINS, ETC. WITH TRAP GUARD DEVICES (ASSE 1072 COMPLIANT).
10	PROVIDE WALL CLEAN OUTS IN ALL VENT RISERS ON BRANCHES LONGER THAN 5'-0" AND ON BRANCHES SERVING SINKS OR URINALS.
11	SEE RISER DIAGRAMS FOR ADDITIONAL SIZING INFORMATION.



1 P1.21 DOMESTIC WATER RISER DIAGRAM

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JASON ANDEJESKI
062-065380
STATE OF ILLINOIS

DATE: 09.05.2024

TRIA ARCHITECTURE

KITCHEN CONSULTANT: cafe associates inc. food service design 161 N. KNOX STREET, SUITE 2L GENEVA, IL 60134 (P) 855.962.4422

CIVIL CONSULTANT: JDC engineering 312 JEWETT DRIVE, 2ND FLOOR SPARTA, NEW JERSEY 07871 (P) 800.728.7805

LANDSCAPE CONSULTANT: JSD 1431 E. 75TH AVENUE, SUITE 225 DYER, ILLINOIS 46318 (P) 312.644.3379

STRUCTURAL CONSULTANT: Larson Engineering, Inc. 1488 BOND STREET, SUITE 100 NAPERVILLE, ILLINOIS 60563 (P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

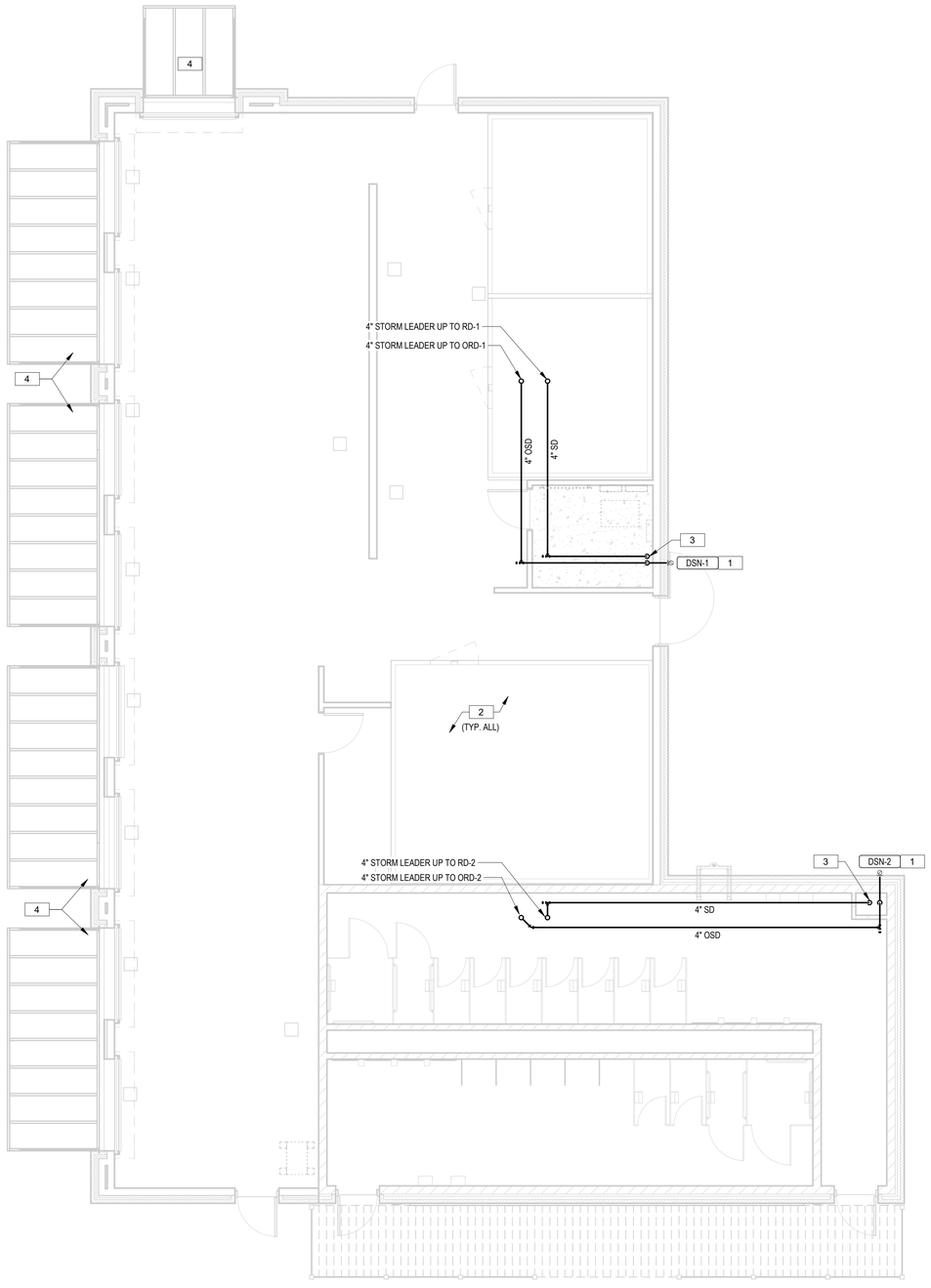
PROJECT NUMBER:	24-002
PROJECT MANAGER:	
DRAWN BY:	SLB / NSL
ISSUED FOR BID:	09/06/2024

REVISION	DATE

DOMESTIC WATER RISER DIAGRAM

100%CD/IFB

P1.21



1 STORM WATER PLUMBING PLAN
SCALE: 1/8" = 1'-0"

PLUMBING SHEET NOTES	
1	THIS PLAN IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE LOCATION OR DIMENSION OF THE WORK. CONTRACTOR SHALL VERIFY EXACT LOCATION OF PIPING AND PENETRATIONS.
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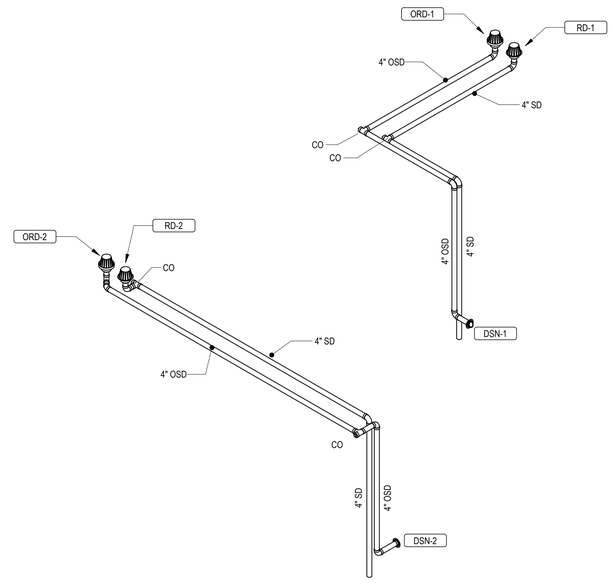
3	REPAIR WALL SURFACE AFTER INSTALLATION AND INSPECTION OF EACH PLUMBING FIXTURE AND PIPING INSTALLED.
4	ALL WALL-MOUNTED ACCESS PANELS SHALL BE LOCKABLE TYPE.
5	ABOVE-GRADE WASTE PIPE SHALL BE RUN AT 2% GRADE. BELOW-GRADE WASTE PIPE SHALL BE RUN AT 1% GRADE.
6	ALL CONDENSATE DRAIN PIPE SHALL BE RUN AT 1% GRADE.
7	MAINTAIN MINIMUM 10-0" SEPARATION BETWEEN FLUE AND PLUMBING VENT OUTLETS AND ANY FRESH AIR INTAKE. COORDINATE WITH HVAC CONTRACTOR.
8	FLOORS SHALL SLOPE TO DRAINS AT 1% MINIMUM SLOPE. SEE ARCHITECTURAL PLANS FOR MORE INFORMATION.
9	PROVIDE ALL FLOOR DRAINS, FLOOR SINKS, TRENCH DRAINS, ETC. WITH TRAP GUARD DEVICES (ASSE 1072 COMPLIANT).
10	PROVIDE WALL CLEAN OUTS IN ALL VENT RISERS ON BRANCHES LONGER THAN 5'-0" AND ON BRANCHES SERVING SINKS OR URINALS.
11	SEE RISER DIAGRAMS FOR ADDITIONAL SIZING INFORMATION.

KEYNOTES	
1	PROPOSED LOCATION OF DOWNSPOUT WITH NOZZLE TO SPLASH-TO-GRADE. COORDINATE DISCHARGE ELEVATION WITH ARCHITECT.
2	ALL HORIZONTAL STORM PIPING 4" OR SMALLER SHALL BE SLOPED AT A MINIMUM OF 1/8" PER LINEAR FOOT UNLESS OTHERWISED NOTED OR REQUIED BY AHJ. (TYP. ALL)
3	4" STORM PIPING TO CONNECT TO STORM MAIN. SEE CIVIL FOR CONTINUATION. COORDINATE INVERT THROUGH FOOTING WITH STRUCTURAL AND CIVIL.
4	METAL CANOPIES SHALL BE SLOPED TO PREFINISHED METAL DOWNSPOUT ROUTED UNDERGROUND. REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR ADDITIONAL INFORMATION



2 STORM WATER RISER DIAGRAM
P1.30

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JASON ANDEJESKI
062-065380
STATE OF ILLINOIS

DATE: 09.05.2024

TRIA ARCHITECTURE

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CIVIL CONSULTANT: KLOA 2550 W. Golf Road, Suite 250 Rolling Meadows, IL 60008 (P) 800.728.7805

LANDSCAPE CONSULTANT: JSD 1401 E. 75th Ave., Suite 231 Dyer, IN 46311 (P) 312.644.3379

STRUCTURAL CONSULTANT: Larson Engineering, Inc. 1456 Feehanville Drive, Suite 100 Naperville, Illinois 60563-6503 (P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES
VILLAGE GREEN CONCESSIONS
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

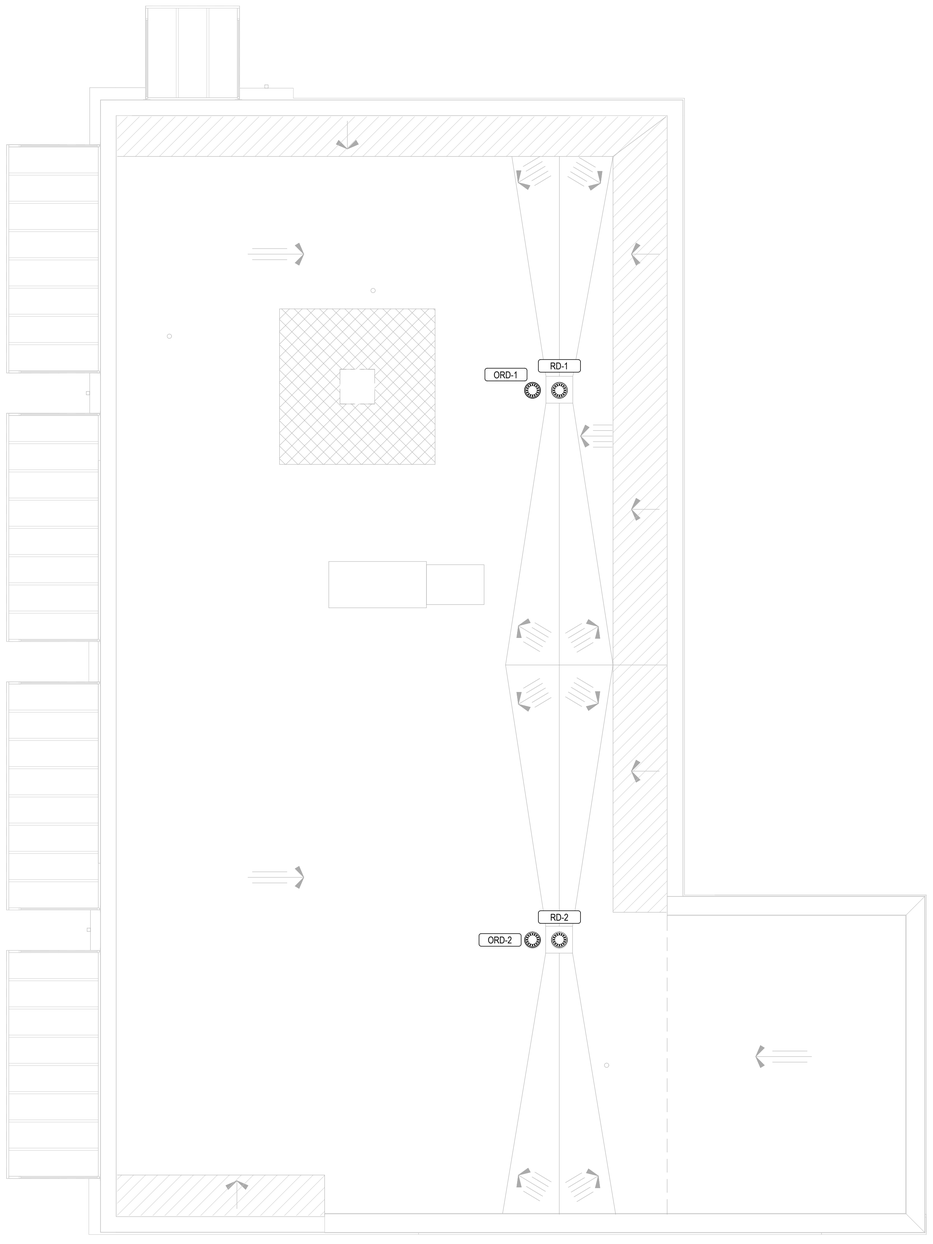
PROJECT NUMBER: 24-002
PROJECT MANAGER: SLB / NSL
DRAWN BY:

ISSUED FOR BID:	09/06/2024		
REVISION:			
DATE			

STORM WATER PLUMBING PLAN

100%CD/IFB

P1.30



ROOF DRAIN SIZING			
DRAIN TAG	DRAIN AREA (SQ. FT.)	FLOW RATE (GPM)	DRAIN SIZE (IN.)
RD/ORD-1	1678	63.46	4"
RD/ORD-2	2080	79.13	4"
RAINFALL RATE:		3.2 IN./HR	

PLUMBING SHEET NOTES	
1	THIS PLAN IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE LOCATION OR DIMENSION OF THE WORK. CONTRACTOR SHALL VERIFY EXACT LOCATION OF PIPING AND PENETRATIONS.
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8	FLOORS SHALL SLOPE TO DRAINS AT 1% MINIMUM SLOPE. SEE ARCHITECTURAL PLANS FOR MORE INFORMATION.
9	PROVIDE ALL FLOOR DRAINS, FLOOR SINKS, TRENCH DRAINS, ETC. WITH TRAP GUARD DEVICES (ASSE 1072 COMPLIANT).
10	PROVIDE WALL CLEAN OUTS IN ALL VENT RISERS ON BRANCHES LONGER THAN 5'-0" AND ON BRANCHES SERVING SINKS OR URINALS.
11	SEE RISER DIAGRAMS FOR ADDITIONAL SIZING INFORMATION.

1 P1.31 ROOF PLUMBING PLAN
3/16" = 1'-0"

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LICENSED PROFESSIONAL ENGINEER
JASON ANDEJESKI
062-065380
STATE OF ILLINOIS

DATE: 09.05.2024

TRIA ARCHITECTURE

KITCHEN CONSULTANT: cafe associates inc. food service design
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CIVIL CONSULTANT: Larson Engineering, Inc.
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LANDSCAPE CONSULTANT: JSD
(P) 312.644.3379

STRUCTURAL CONSULTANT: Larson Engineering, Inc.
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VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

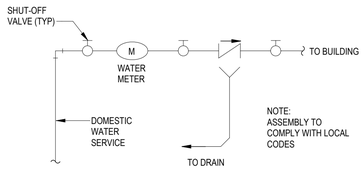
PROJECT NUMBER:	24-002
PROJECT MANAGER:	
DRAWN BY:	SLB / NSL
ISSUED FOR BID:	09/06/2024

REVISION	DATE

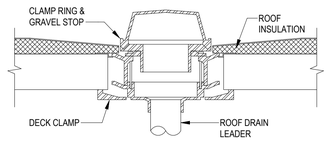
STORM WATER ROOF PLUMBING PLAN

100%CD/IFB

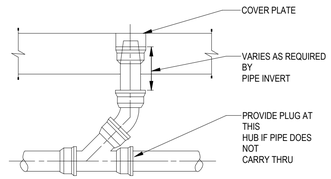
P1.31



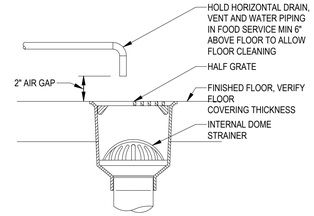
1 P2.00 WATER SERVICE PIPING DETAIL
NOT TO SCALE



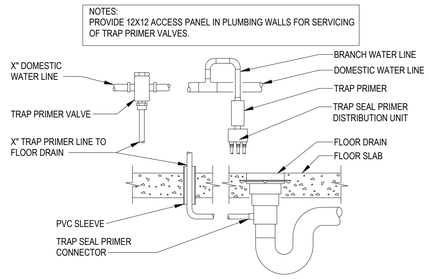
2 P2.00 ROOF DRAIN DETAIL
1/8" = 1'-0"



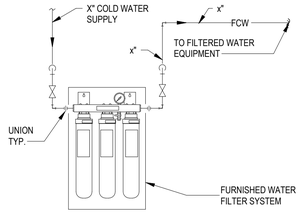
3 P2.00 CLEAN OUT AND PLUGGED RISER
1/8" = 1'-0"



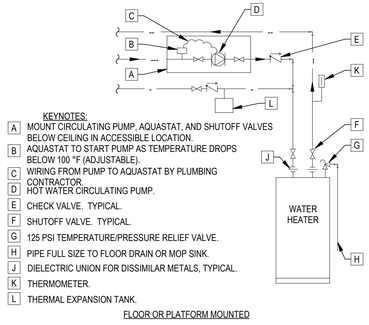
4 P2.00 FLOOR SINK
NOT TO SCALE



5 P2.00 TRAP PRIMER DETAIL
1/8" = 1'-0"



6 P2.00 FOOD SERVICE WATER FILTER PIPING SCHEMATIC
NOT TO SCALE

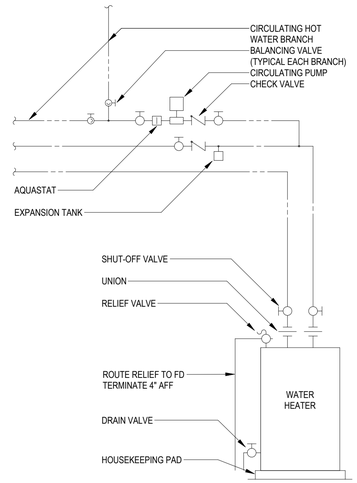


KEYNOTES:

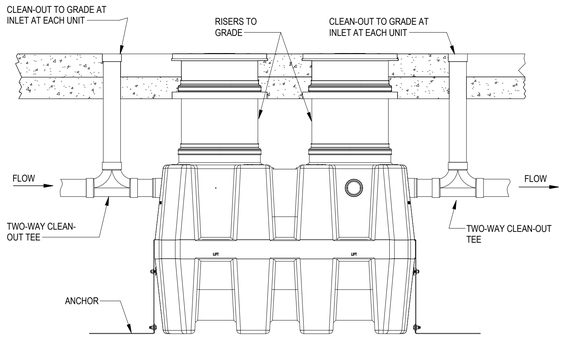
A MOUNT CIRCULATING PUMP, AQUASTAT, AND SHUTOFF VALVES BELOW CEILING IN ACCESSIBLE LOCATION.
B AQUASTAT TO START PUMP AS TEMPERATURE DROPS BELOW 100 °F (ADJUSTABLE).
C WIRING FROM PUMP TO AQUASTAT BY PLUMBING CONTRACTOR.
D HOT WATER CIRCULATING PUMP.
E CHECK VALVE. TYPICAL.
F SHUTOFF VALVE. TYPICAL.
G 125 PSI TEMPERATURE/PRESSURE RELIEF VALVE.
H PIPE FULL SIZE TO FLOOR DRAIN OR MOP SINK.
J DIELECTRIC UNION FOR DISSIMILAR METALS, TYPICAL.
K THERMOMETER.
L THERMAL EXPANSION TANK.

FLOOR OR PLATFORM MOUNTED

7 P2.00 HOT WATER CIRCULATING PUMP PIPING DETAIL
NOT TO SCALE



8 P2.00 WATER HEATER PIPING DETAIL - SINGLE W/RECIRCULATION
NOT TO SCALE



9 P2.00 GREASE INTERCEPTOR SIDE VIEW DETAIL
1/8" = 1'-0"

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LICENSED PROFESSIONAL ENGINEER
JASON ANDEJESKI
062-065380
STATE OF ILLINOIS

DATE: 09.05.2024

TRIA ARCHITECTURE

KITCHEN CONSULTANT: JSD
LANDSCAPE CONSULTANT: eda associates inc. land service design
STRUCTURAL CONSULTANT: Larson Engineering, Inc.
CIVIL CONSULTANT: HR Green

VILLAGE OF HOFFMAN ESTATES
VILLAGE GREEN CONCESSIONS
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

DATE	REVISION

PROJECT NUMBER: 24-002
PROJECT MANAGER:
DRAWN BY: SLB / NSL
ISSUED FOR BID: 09/05/2024

PLUMBING DETAILS

100%CD/IFB

P2.00

GREASE INTERCEPTOR CALCULATIONS

Reference No. 69776 — Project Name: Hideaway Beer Garden

CALCULATIONS - USING ILLINOIS PLUMBING CODE

Step 1: Liquid Holding Capacity to grease interceptor

Tot. Fixture Capacity:	150.9 gal
Outdoor factor	0.5

150.9 x 0.5 = 75.45 gal

Step 2: Grease Production

Servings per day: 640

Grease production value: Snack Bar

(medium / no flatware: 0.025 lbs per serving)

Days between pump-outs: 90 days

640 x 0.025 x 90 = 1440 lbs of FOG

Servings per day x Grease production value x Days between pump-outs = Grease output

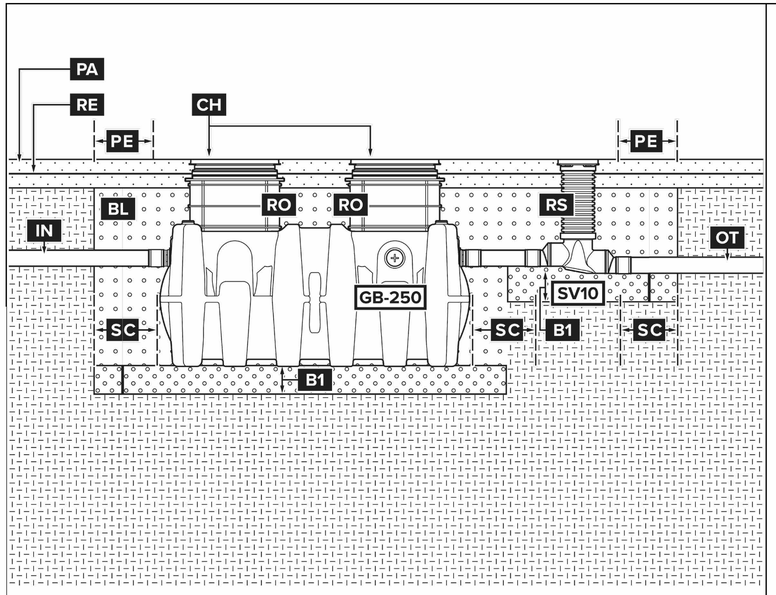
SCHIER MODEL	
GB-250	**Description:** GREASE INTERCEPTOR 100 GPM / 200 GPM, 4" PLAIN/FPT CONNECTIONS, H-20 RATED PICKABLE CAST IRON COVERS **Dimensions:** Length: 87", Width: 33", Height: 44" **Flow Rate/Grease Capacity:** 100 GPM / 1895 lbs **Liquid Capacity:** 277 gal

FIXTURE INFORMATION

NAME/TAG	TYPE	QTY	DIMENSIONS	CAPACITY
3 Compartment Sink	3 Compartment Sink	1	21" x 21" x 14"	80.18 gal
Dishwasher	Dishwasher (Conveyor)	1	25 gal.	25 gal
Hand Sink	Hand Sink	4	10" x 14" x 5"	3.03 gal
Ice Machine (with drai...	Ice Machine (with drain)	1	N/A	0 gal
Mop Basin	Mop Basin	1	24" x 24" x 10"	24.94 gal
Pre-Rinse Sink One Bow...	Pre-Rinse Sink One Bowl	1	20" x 20" x 5"	8.66 gal

Specification Note: This Great Basin model has been sized to the flow rate and grease production requirements of the application and may not be substituted by liquid capacity alone. Any substitution requests must be approved by the specifying engineer and the authority having jurisdiction.

Please contact support@schierproducts.com for technical and procurement support for the specified Great Basin model.



B1 6" minimum compacted base (clean aggregate 3/4" in size or smaller)

BL Backfill (clean aggregate 3/4" in size or smaller) - DO NOT COMPACT BACKFILL MECHANICALLY

CH H-20 load rated cast iron cover

IN 4" diameter inlet pipe

OT 4" diameter outlet pipe

PA Minimum 8" thick concrete pad with rebar required for vehicular traffic. Concrete to be 28 day compressive strength to 4,000 PSI.

PE Pad to extend 18" minimum beyond edge of tank on all sides.

RE No. 4 rebar, grade 60 steel

RO FCR2 field cut riser to grade

RS FCR10 field cut riser to grade

SC 12" clear all sides

DETAIL Hideaway Beer Garden — Outdoors, Below Grade

GB-250 GREASE INTERCEPTOR 100 GPM / 200 GPM, 4" PLAIN/FPT CONNECTIONS, H-20 RATED PICKABLE CAST IRON COVERS

SV10 SEWER VIEWER SAMPLING PORT, 4" CONNECTIONS (FIELD MODIFIABLE TO 6"), POLYETHELENE COVER

Disclaimer: this Detail represents manufacturer directed guidance regarding the grease interceptor system. The contents of this document are not a substitute for local jurisdiction requirements and plumbing code standards. Please follow all local ordinances when installing.

SCHIER

LIFETIME GUARANTEED
GREASE INTERCEPTORS

schierproducts.com

PECIFICATIONS

otes:

4" FPT inlet/outlet with 4" plain end adapters, single inlet and triple outlet.
Unit weight - w/ cast iron covers: 376 lbs. (For wet weight add 2,310 lbs.)
Maximum operating temperature: 150° F continuous
Capacities - Liquid: 277 gal.;
Grease: 1,895 lbs. (260 gal.) @100GPM
Grease: 1,196 lbs. (164 gal.) @200GPM
Solids: 69 gal.
This unit does not require flow control for 100 GPM applications. Built-in flow control is provided for 200 GPM applications. For series installations, only install flow control on the first unit in the series if necessary.
For gravity drainage applications only.
Do not use for pressure applications.
Cover placement allows full access to tank for proper maintenance.
Vent not required unless per local code.

). Engineered inlet and outlet diffusers with inspection ports are removable to inspect / clean piping.
1. Integral air relief / Anti-siphon / Sampling access.
2. Adjustable cover adapters provide up to 4" of additional height.
3. Designed for below-grade, above-grade, indoor or outdoor installations.
4. Safety Star®, access restrictor built into each cover adapter, prevents accidental entry to tanks (450 lb rating).

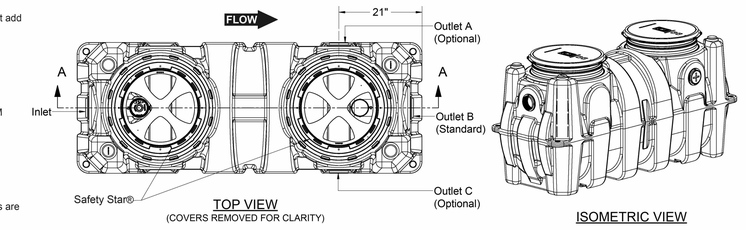
NGINEER SPECIFICATION GUIDE

chier Great Basin™ grease interceptor model # GB-250 shall lifetime guaranteed and made in USA of seamless, tationally-molded polyethylene with minimum 3/8" uniform all thickness. Interceptor shall be furnished for above or low-grade installation with adjustable cover adapters, Safety ar® access restrictor built into each cover adapter, built-in w control (for 200 GPM only) and three outlet options. terceptor shall be certified to ASME A112.14.3 (Type D for 0 GPM, type C for 200 GPM) and CSA B481.1. Interceptor w rate shall be 100 GPM or 200 GPM. Interceptor grease apacity shall be 1,895 lbs. @ 100 GPM or 1,196 lbs. @ 200 PM. Cover shall provide water/gas-tight seal and have inimum 16,000 lbs. load capacity.

ERTIFIED PERFORMANCE

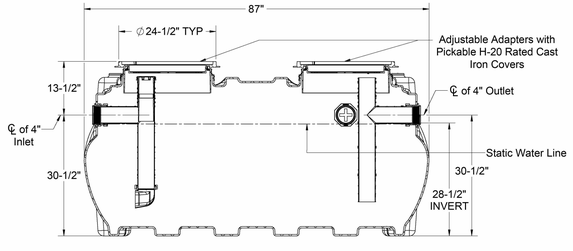
reat Basin™ hydromechanical grease interceptors are third arty performance-tested and listed by IAPMO to ASME #A112.14.3 and CSA B481.1 grease interceptor standards and greatly exceed requirements for grease separation and storage. They are compliant to the Uniform Plumbing Code and the International Plumbing Code.

Type D certification does not require a flow control

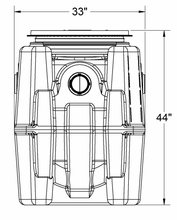


TOP VIEW
(COVERS REMOVED FOR CLARITY)

ISOMETRIC VIEW



SECTION A-A



END VIEW

SPECIFICATION SHEET

MODEL NUMBER:	PART NUMBER: 4055-007-02			
GB-250	DESCRIPTION: GB-250 GREASE INTERCEPTOR 100 GPM / 200 GPM, 4" INLET/OUTLET, H-20 RATED CAST IRON COVERS			
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UPC ® UPC C ®

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L.(CENSED PROFESSIONAL ENGINEER) JASON ANDEJESKI 062-065380 STATE OF ILLINOIS

DATE: 09.05.2024

TRIA ARCHITECTURE

KITCHEN CONSULTANT: cafe associates inc. food service design — (P) 855.962.4422

CIVIL CONSULTANT: JDC FGH Gleen — (P) 800.728.7805

LANDSCAPE CONSULTANT: JSD — (P) 312.644.3379

STRUCTURAL CONSULTANT: Larson Engineering, Inc. — (P) 630.357.0540

VILLAGE OF HOFFMAN ESTATES

VILLAGE GREEN CONCESSIONS

5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER:	24-002
PROJECT MANAGER:	
DRAWN BY:	SLB / NSL
ISSUED FOR BID:	09/05/2024
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DATE	

GREASE INTERCEPTOR DETAILS

100%CD/IFB

P2.01

WATER HEATER (WH) SCHEDULE

TAG	LOCATION	INPUT HEATING INPUT BTUHR	INPUT HEATING KW	RECOVERY GPH 90 DEGREE (F) RISE	ELECTRICAL VOLTS/PH/HZ	ELECTRICAL F.L.A.	MANUFACTURER	MODEL NUMBER	NOTES
WH-1	-	150,000	-	198	120/1/60	-	A. O. Smith	BTH-150(A)	1

WATER HEATER SCHEDULE NOTES:
1. DISCONNECT SWITCHES AND POWER SOURCE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
2. AIR INTAKE AND EXHAUST VENT PIPING FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR.
3. GAS PIPING FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR.
4. PROVIDE WITH FACTORY SUPPLIED T&P RELIEF VALVE AND INTEGRAL HEAT TRAPS.
5. PROVIDE WITH STAINLESS STEEL DRAIN PAN, ACID NEUTRALIZATION KIT, AND CONCENTRIC VENTING KIT.

GREASE INTERCEPTOR SCHEDULE

TAG	DISCRIPTION	MODEL	FLOW CAPACITY	SOLIDS CAPACITY	ACCESSORIES	NOTES
GI-1	GREASE INTERCEPTOR	GB-250	200 GAL	69 GAL	4" INLET, 4" OUTLET	1

GREASE INTERCEPTOR SCHEDULE NOTES:
1. GREASE INTERCEPTOR IS SIZED FOR CITY SEWER APPLICATIONS ONLY. DO NOT USE FOR SEPTIC FIELDS.

PUMP (P) SCHEDULE

TAG	LOCATION	DISCRIPTION	FLOW (GPM)	HEAD (FT)	SUCTION (INCH)	DISCHARGE (INCH)	PUMP HP	PUMP RPM	HP OR WATTS	VOLTS/PH/HZ	MANUFACTURER	MODEL	NOTES
P-1	MECH 101	RECIRCULATION PUMP	10	8	3/4"	3/4"	1/25	3/4"	1/25	115/1/60	TACO	008-VDTD6	2

PUMP SCHEDULE NOTES:
1. PUMP TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	MODEL	FAUCET/VALVE - MANUFACTURER	FAUCET/VALVE - MODEL NUMBER	FIXTURE DESCRIPTION	WASTE	VENT	CW	HW
FCO-1		Z1400	-	-	FLOOR CLEANOUT - PROVIDE SCREW COVER. MATCH SIZE OF PIPE	-	-	-	-
FD-1	FLOOR DRAIN	Z-415W/ TYPE B STRAINER	-	-	FLOOR DRAIN W/ 5" NICKALOY STRAINER TOP PROVIDE AUXILLARY INLET FITTING FOR TRAP PRIMER CONNECTION.	3"	2"	-	-
FS-1	FLOOR SINK	Z-1901	-	-	FLOOR SINK - 12"X12" X 8" DEEP SUMP, 4" OUTLET	4"	2"	-	-
HB-1	HOSE BIBB	65	-	-	FROST-PROOF, ANTI-SIPHON WALL HYDRANT, MAX 125 PSI	-	-	3/4"	-
LAV-1	LAVATORY	"LUCERNE" 0355.012	SUMMONS	S-20-0.5	DEARBORN 507-1 1-1/4" P TRAP W/CO. CR 19-1/2"X3/8" CP ANGLE STOP. 1-12A 3/8"X1/2" LAV RISER. 760-1 DEARBORN GRID DRAIN. TRUEBRO 102E-Z WHITE COVER KITS. PROVIDE WITH POINT OF USE THERMOSTATIC MIXING VALVE WATTS LFUSG-B ASSE 1070 COMPLIANT SET TO A MAX. 110 DEGREES. 2.2 GPM WITH 0.5 GPM FLOR RESTRICTOR FAUCET.	2"	1-1/4"	1/2"	1/2"
UR-1	WALL HUNG URINAL	"TRIMBROOK" 6561.017	-	-	WALL- HUNG, VITREOUS CHINA, FLUSH VALVE URINAL (HANDICAP) FLUSH VALVE - SLOAN NO.186-1.0 LOW WATER CONSUMPTION (1.0 GALLON PER FLUSH) MOUNT TOP OF FRONT RIM AT 17" A.F.F. TO MEET A.D.A. PROVIDE SUITABLE FIXTURE CARRIER	2"	2"	3/4"	-
WC-1	WATER CLOSET	"AWFALL" 2856.128	-	-	WALL-HUNG VITREOUS CHINA WATER CLOSET W/ ELONGATED BOWL. MOUNT TOP OF RIM AT 14" A.F.F. FLUSH VALVE - SLOAN 111. SEAT - OLSONITE NO 95CT. LOW WATER CONSUMPTION (1.3 GPF)	3"	2"	1"	-
WC-2	WATER CLOSET	"AWFALL" 2856.128	-	-	WALL-HUNG VITREOUS CHINA WATER CLOSET W/ ELONGATED BOWL (HANDICAP). MOUNT TOP OF TIM AT 17" A.F.F. TO MEET ADA. FLUSH VALVE - SLOAN 111. SEAT - OLSONITE NO 95CT. LOW WATER CONSUMPTION (1.3 GPF)	3"	2"	1"	-

FOOD SERVICE EQUIPMENT / MECHANICAL SCHEDULE

ITEM NUMBER	QUANTITY	ITEM DESCRIPTION	WATER CONNECTIONS: HOT WATER SIZE	COLD WATER SIZE	STUB UP HEIGHT	EQUIP. HEIGHT	H.W. CONSUMPTION GAL. PER HOUR	DRAINS: IND. WASTE SIZE	DIRECT WASTE SIZE	WASTE HEIGHT	GAS: GAS LINE SIZE	GAS HEIGHT AFF	MBTU LOAD HEIGHT A.F.F.	WATER COLUMN	STEAM: STEAM SUPP. SIZE	COND. RETURN SIZE	HEIGHT	BOILER H.P.	REMARKS
1	LOT	DRY STORAGE SHELVING																	
2	1	WALK IN BEER COOLER																	
3	1	GLYCOL POWER PACKS - BY VENDOR																	
3.1	1	GLYCOL POWER PACKS - BY VENDOR																	
4	LOT	KEG SHELVING - BY VENDOR																	
5.1	1	EVAPORATOR COIL - BEER COOLER						1"		FS									
5.2	1	CONDENSING UNIT - VERIFY LOCATION																	
6	1	WALK IN COOLER / FREEZER																	
7	LOT	COOLER SHELVING																	
8.1	2	EVAPORATOR COILS - COOLER						1"		FS									
8.2	1	CONDENSNG UNIT - VERIFY LOCATION																	
9	LOT	FREEZER SHELVING																	
10.1	1	EVAPORATOR COIL - FREEZER						1"		FS									
10.2	1	CONDENSING UNIT - VERIFY LOCATION																	
11	4	HAND SINKS W/ SIDE SPLASHES	.5"	.5"	12"	40"			1.5"	-									
12	1	SMOKER, ELECTRIC																	
13	3	GLASS DOOR MERCHANDISERS - EXISTING																	
14	1	ICE MAKER W/ BIN (2000 LB)		.5"	12"	-		.75"		-									CW THRU FILTER - DRAIN TO FLOOR TROUGH
15	4	1 DOOR REFRIGERATOR - EXISTING																	
16	2	HOT FOOD WELLS - COUNTERTOP - 4 WELL																	
17	-	OPEN NUMBER																	
18	2	HEATED CABINETS - MOBILE																	
19	2	WORK TOP REFRIGERATORS																	
20	1/1	MOP SINK / CHEMICAL SHELF & MOP HANGER	.5"	.5"	36"	36"			2"	0"									
21	2	REFRIGERATOR - SALAD TOP - EXISTING																	
22	4	HEATED DRAWERS, EXISTING																	
23	4	DOUBLE OVERSHELVES																	
24	1	EXHAUST HOOD																	
25	1	FIRE SUPPRESSION SYSTEM																	
26	4	FRYERS W/ FILTERS									.75"	16"	110						EACH
27	1	DUMP STATION																	
28	-	OPEN NUMBER																	
29	1	GRIDDLE - 48" W/ STAND									.75"	16"	128						
30	1	FLOOR TROUGH							4"	-4"									
31	1	CHAR GRILL W/ STAND									.75"	16"	90						
32	1	4 BURNER RANGE W/ OVEN BASE									.75"	16"	160						
33	1	COMBI OVEN W/ FILTER		(2).5"	12"	48"		2"		FS	.75"	16"	211						ONE CW TREATED / ONE CW UNTREATED
34	2	DOUBLE HEATED DRAWERS, MOBILE - EXST																	
35	2	3 DOOR COOLERS - KEG																	
36	2	CHURRO WARMERS																	
37	1	BEVERAGE COUNTER W/ TROUGH						.5"		FS									
38	-	OPEN NUMBER																	
39	-	OPEN NUMBER																	
40	1	DISHMACHINE W/ BOOSTER - VENTLESS - EXST	.75"	.5"	12"	-		1.5"		FS									CW FOR DRAIN TEMP. KIT - VERIFY
41	-	OPEN NUMBER																	
42	-	OPEN NUMBER																	
43	-	OPEN NUMBER																	
44	1	WORK TABLE																	
45	2	WORK TABLES																	
46	2	8 BEER HEADS W/ DRIP PANS - BY VENDOR						.5"		FS									VERIFY W/ VENDOR
47	4	WORK COUNTERS - S/S W/ PASS THRU LEDGE																	
48	4	HEAT LAMPS																	
49	2	4 DOOR PASS THRU U.C. COOLERS																	
50	1	SOILED DISHTABLE W/ PRE RINSE - EXST	.5"	.5"	12"	40"		1.5"		FS									VERIFY
51	2	MONITORS - BY OWNER																	
52	LOT	FRONT COUNTER - S/S																	
53	24	POS SYSTEMS - BY OWNER																	
54	2	3 DOOR REFRIGERATORS, UNDERCOUNTER																	
55	5	8 BEER HEADS W/ DRIP PANS						.5"		FS									
56	1	3 COMPARTMENT SINK						1.5"		FS									MANIFOLD DRAIN LINES - THRU GREASE TRAP
57	1	PRE RINSE SPRAY & FAUCET	.5"	.5"	12"	40"													
58	2	WALL SHELVES																	
59	1	CLEAN DISHTABLE																	
60	4	8 BEER HEADS W/ DRIP PAN-TWO TIER -VENDOR						.5"		FS									

SYMBOLS

FLOOR SINK (FS)	HOT WATER (HW)
FLOOR DRAIN (FD)	COLD WATER (CW)
FLOOR DRAIN W/FUNNEL (FDF)	GAS
	DIRECT WASTE (DW)
	AFF = ABOVE FIN. FLR
	FA = DOWN FROM ABV.

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LEIL Comm. No. # 24240047.000

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LICENSED PROFESSIONAL ENGINEER
JASON ANDEJESKI
062-065380
STATE OF ILLINOIS

DATE: 09.05.2024

TRIA ARCHITECTURE
KITCHEN CONSULTANT: cafe associates inc. food service design (P) 855.962.4422
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VILLAGE OF HOFFMAN ESTATES
VILLAGE GREEN CONCESSIONS
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

PROJECT NUMBER:	24-002
PROJECT MANAGER:	
DRAWN BY:	SLB / NSL
ISSUED FOR BID:	09/05/2024

REVISION	DATE

PLUMBING SCHEDULES

100%CD/IFB

P3.00

GENERAL MECHANICAL SYMBOLS

- REVISION NUMBER - SHOWN ON PLANS
- POINT WHERE NEW CONNECTS TO EXISTING
- NUMBER OF DETAIL ON SHEET / NUMBER OF SHEET WHERE DETAIL APPEARS
- KEYNOTE
- CONTINUATION SYMBOL
- ROOM NAME AND NUMBER (Room 1 Not Enclosed)
- ITEM TO BE DEMOLISHED
- AREA NOT IN CONTRACT
- 2" — PIPE SIZE TAG (DIAMETER)
- ABOVE GROUND PIPING
- 1/8" / 12" SLOPE — PIPE SLOPE TAG
- BELOW GROUND PIPING
- INVERT: -105' - 1" — PIPE INVERT ELEVATION TAG
- (E) — EXISTING PIPE TAG
- PIPING BEING DEMOLISHED

ABBREVIATIONS

Ø	ROUND	LVR	LOUVER
ABV	ABOVE	MAX	MAXIMUM
AD	AREA DRAIN	MD	MOTORIZED DAMPER
ADD	ADDENDUM	MECH	MECHANICAL
AFF	ABOVE FINISHED FLOOR	MFR	MANUFACTURER
ALT	ALTERNATE	MIN	MINIMUM
AP	ACCESS PANEL	MISC	MISCELLANEOUS
ARCH	ARCHITECT/ARCHITECTURAL	MTR	MOTOR
BFF	BELOW FINISHED FLOOR	NC	NORMALLY CLOSED
BLW	BELOW	NIC	NOT IN CONTRACT
CAP	CAPACITY	NO	NUMBER
CB	CATCH BASIN	NO	NORMALLY OPEN
CLG	CEILING	NTS	NOT TO SCALE
CO	CLEAN OUT	PD	PRESSURE DROP
CW	COLD WATER	PIV	POST INDICATOR VALVE
D	DEGREE	PRESS	PRESSURE
DIA	DIAMETER	PRV	PRESSURE REDUCING VALVE
DN	DOWN	PSI	POUNDS PER SQUARE INCH
EA	EACH	PSIG	POUNDS PER SQUARE INCH GAUGE
ELEC	ELECTRICAL	PWR	POWER
EQUIP	EQUIPMENT	REC	RECESSED
E/A	EXHAUST AIR	RED	REDUCER
F	DEGREES FAHRENHEIT	RM	ROOM
FD	FLOOR DRAIN	RPM	REVOLUTIONS PER MINUTE
FDC	FIRE DEPARTMENT CONNECTION	SF	SQUARE FOOT
FL	FLOOR	SAN	SANITARY
FO	FUEL OIL	SF	SQUARE FOOT
FOV	FUEL OIL VENT	SD	SMOKE DAMPER
FOR	FUEL OIL RETURN	SM	SURFACE MOUNT
FOS	FUEL OIL SUPPLY	SP	STANDPIPE
FPM	FEET PER MINUTE	SP	STATIC PRESSURE
FT	FOOT/FEET	T	THERMOSTAT
GAL	GALLON	TD	TEMPERATURE DROP
GF	GAS-FIRED	TEMP	TEMPERATURE
GC	GENERAL CONTRACTOR	TYP	TYPICAL
GPM	GALLONS PER MINUTE	UG	UNDERGROUND
HB	HOSE BIB	V	VENT
HP	HORSE POWER	VENT	VENTILATION
HTR	HEATER	W	WASTE
HYD	HYDRANT	WH	WALL HYDRANT
ID	INDIRECT		
IN	INCH		
INV	INVERT		
LB	POUND		

EQUIPMENT ABBREVIATIONS

AC	AIR CONDITIONING UNIT	ET	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	EWH	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOILER	GI	GREASE INTERCEPTOR
CH	CHILLER	GRV	GRAVITY ROOF VENTILATOR
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT
CHWP	CHILLED WATER PUMP	PRV	POWER ROOF VENTILATOR
DBP	DOMESTIC WATER BOOSTER PUMP	RE	RETURN/EXHAUST FAN
DC	DUCT MOUNTED COIL	RTU	ROOFTOP UNIT
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP
EF	EXHAUST FAN	UH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	WH	WATER HEATER

* NOTE *

ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET.THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

FIRE PROTECTION SYMBOLS

- FP-D — FIRE PROTECTION DRY
- FP-O — FIRE PROTECTION OTHER
- FP-PA — FIRE PROTECTION PRE-ACTION
- FP-W — FIRE PROTECTION WET
- FP-DOM-W — COMBINATION FIRE & DOMESTIC
- UPRIGHT SPRINKLER HEAD
- PENDENT SPRINKLER HEAD
- RECESSED SPRINKLER HEAD
- CONCEALED SPRINKLER HEAD
- DRY SPRINKLER HEAD (D)
- SIDEWALL SPRINKLER HEAD
- EXTENDED COVERAGE SIDEWALL SPRINKLER HEAD
- 48"x18" S/A — OBSTRUCTION FROM DUCTWORK 48" AND GREATER
- PIPE DROP
- PIPE RISE
- PIPE TEE
- CAP
- 4" — PLUG
- 2" — REDUCING 45 DEGREE TEE
- 4" — 45 DEGREE TEE

PIPE ACCESSORY TAGS

- WM — 2" BALANCING BALANCING VALVE
- 2" SHUTOFF 1/4 TURN BALL VALVE
- 2" CHECK CHECK VALVE
- 2" TMV 3-WAY MIXING VALVE
- ALARM CHECK VALVE
- DRY PIPE VALVE
- FREESTANDING SIAMESE FIRE DEPARTMENT CONNECTION
- INDICATING BUTTERFLY VALVE
- OS&Y VALVE
- PREACTION VALVE
- FIRE DAMPER
- SMOKE DAMPER
- M — 2" M-CNTRL MOTORIZED CONTROL VALVE
- M — 2" 3-WAY CNTRL 3 WAY MOTORIZED CONTROL VALVE
- 2" PRV PRESSURE REDUCING VALVE
- S — 3/8" SOLENOID REFRIGERANT SOLENOID VALVE
- 2" BUTTERFLY BUTTERFLY VALVE
- FIRE SMOKE DAMPER
- POST INDICATOR VALVE
- RISER
- SIAMESE FIRE DEPARTMENT CONNECTION
- SINGLE FIRE DEPARTMENT CONNECTION
- THRUST BLOCK
- VALVE NONRISING STEM

PROJECT GENERAL NOTES

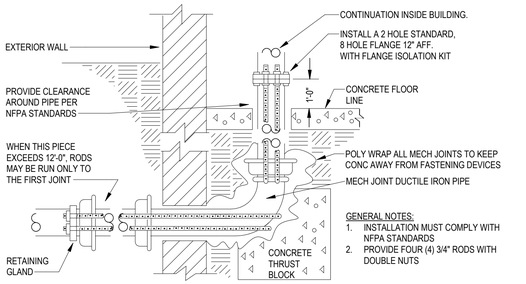
1. REMOVE ALL UNUSED PIPING, DUCTWORK AND ACCESSORIES FROM PREVIOUS STRUCTURE.
2. COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, AND EQUIPMENT TO PREVENT CONFLICTS.
3. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AS WELL AS THOSE WHICH CAN BE REASONABLY ANTICIPATED INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.
4. FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.
5. LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.
6. ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.
7. LOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS. TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT.
8. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL AS PRESCRIBED IN CSFM STANDARD 43-1 AND SHALL BE U.L. LISTED.
9. PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.
10. MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE, VISUAL INSPECTION OR HAND OPERATION. WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.
11. ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.
12. REFER TO HVAC SERIES DRAWINGS FOR GAS AND A.C. CONDENSATE DRAIN PIPING.
13. PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
14. FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.
15. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
16. LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED ON THE DRAWING, ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.
17. INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.
18. THE CONTRACTOR'S WORK SCHEDULE SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER.
19. PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL MECHANICAL EQUIPMENT, PLUMBING FIXTURES, AND DIFFUSERS.
20. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.
21. PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.

FIRE PROTECTION GENERAL NOTES

1	THE SPRINKLER SYSTEM SHALL BE DESIGNED BASED UPON ACTUAL WATER FLOW TEST DATA OBTAINED AT OR NEAR THE JOB SITE.
2	PROVIDE A COMPLETE WET TYPE FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE FLOOR PLAN AND CEILING TYPES INCLUDING MAINS, BRANCHES, HEADS, VALVES, AND ACCESSORIES AS REQUIRED. THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, NFPA, AND FACTORY MUTUAL.
3	REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION REGARDING SPRINKLER HEAD LOCATION AND PIPE, UNLESS NOTED OTHERWISE.
4	DIVISION 21 CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR PROPER INSTALLATION OF THE FIRE PROTECTION SYSTEMS ALARM DEVICES INVOLVED WITH FIRE SPRINKLER SYSTEM.
5	ALL SPRINKLER SYSTEM PIPING SHALL BE CONCEALED ABOVE THE SUSPENDED CEILING SYSTEM, UNLESS NOTED OTHERWISE. WRITTEN AUTHORIZATION SHALL BE OBTAINED FROM THE ARCHITECT PRIOR TO EXPOSING ANY PIPING IN ANY ROOM WHICH HAS A SUSPENDED CEILING.
6	THIS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL SPRINKLER HEADS AS REQUIRED TO ENSURE AN APPROVED FIRE PROTECTION SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
7	AUXILIARY DRAINS SHALL BE EXPOSED WITH 1" DRAIN VALVES. WHEN 5 OR MORE GALLONS ARE TRAPPED, THIS CONTRACTOR SHALL PROVIDE FIXED PIPING TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE DRAIN. WHEN LESS THAN 5 GALLONS ARE TRAPPED, A HOSE BIB SHALL BE PROVIDED AT THE DRAIN VALVE.
8	AUXILIARY DRAINS SHALL NOT BE LOCATED ABOVE PLASTER OR GYPSUM BOARD CEILING SYSTEMS. ONLY BY A SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER WILL A VARIANCE BE PROVIDED.
9	AN INSPECTOR'S TEST CONNECTION SHALL BE PROVIDED FOR EACH FIRE SPRINKLER ZONE. THIS CONTRACTOR SHALL PROVIDE FIXED PIPING FROM THE TEST CONNECTION TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE TEST. EXTERIOR DISCHARGE OF THE TEST CONNECTION SHALL BE PERMITTED ONLY BY SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER.
10	SHOW ALL ROOM NUMBERS ON SHOP DRAWING PLANS.
11	ROUTE SPRINKLER PIPING SUCH THAT IT DOES NOT RUN ABOVE ELECTRICAL PANELS, SWITCHGEAR, OR SIMILAR EQUIPMENT. SPRINKLER MAINS SHALL NOT RUN THROUGH ELECTRICAL OR COMMUNICATION ROOMS. SPRINKLER HEADS IN THESE ROOMS SHALL BE SERVED BY A DEDICATED BRANCH LINE FOR EACH ROOM.
12	THIS DRAWING INDICATES A GENERAL PIPING ARRANGEMENT AND SUGGESTED SIZING ONLY. THIS CONTRACTOR SHALL DETERMINE THE ACTUAL PIPE SIZING REQUIRED AND COORDINATE WORK WITH ALL OTHER TRADES TO AVOID CONFLICTS.
13	THIS CONTRACTOR SHALL PREPARE HYDRAULIC CALCULATIONS BASED UPON THE CONFIGURATION OF THE ACTUAL SYSTEM DESIGN AS SHOWN ON THIS CONTRACTOR'S SHOP DRAWINGS.

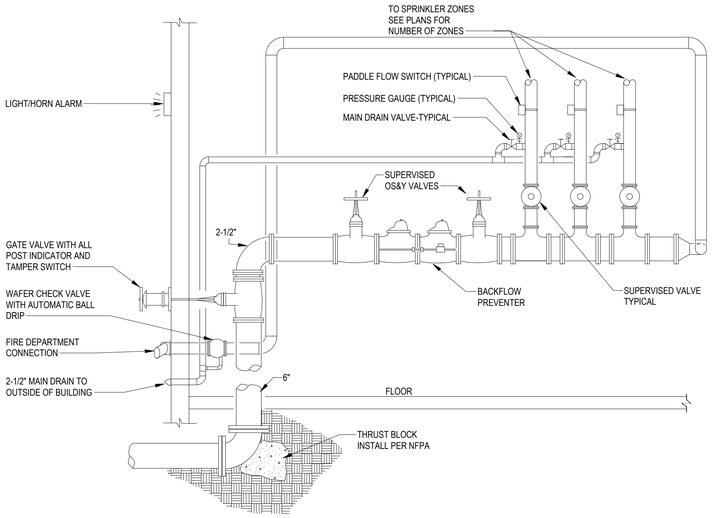
FIRE PROTECTION SHEET INDEX

FP0.00 FIRE PROTECTION TITLE SHEET
FP1.00 FIRE PROTECTION PLAN



NOTE: ACCEPTABLE ALTERNATIVE TO MECHANICAL JOINTS AND FITTINGS FOR LEAD-IN PIPING IS STAINLESS STEEL, SINGLE PIECE 90 DEGREE FITTING AS DESCRIBED IN SPECIFICATION.

1 / FP0.00 WATER SERVICE LINE EXTENSION DETAIL
NO SCALE



EXTERIOR WALL MOUNTING HEIGHTS:
1. MOUNT WALL POST INDICATING VALVE A MINIMUM 3'-6" AND A MAXIMUM 5'-6" ABOVE GRADE.
2. MOUNT FIRE DEPARTMENT CONNECTION A MINIMUM 1'-6" AND A MAXIMUM 3'-6" ABOVE GRADE.

2 / FP0.00 FIRE PROTECTION RISER ELEVATION
NO SCALE

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STATE OF ILLINOIS

DATE: 09.05.2024

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VILLAGE OF HOFFMAN ESTATES
VILLAGE GREEN CONCESSIONS
5510 PRAIRIE STONE PARKWAY, HOFFMAN ESTATES, IL 60192

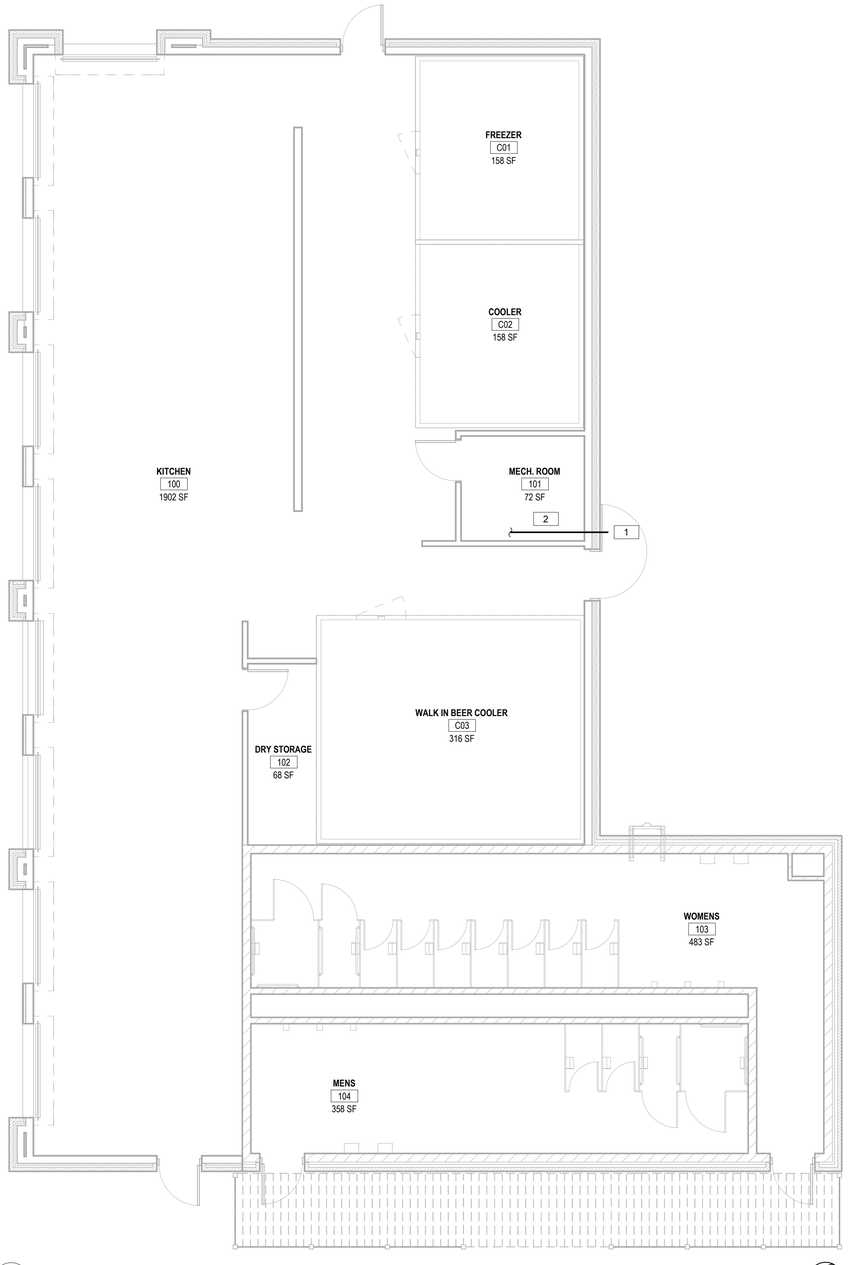
DATE	REVISION

PROJECT NUMBER: 24-002
PROJECT MANAGER:
DRAWN BY: Author
ISSUED FOR BID: 09/05/2024

FIRE PROTECTION TITLE SHEET

100%CD/IFB

FP0.00



1 FP1.00 Level 1 Fire Protection Plan
3/16" = 1'-0"

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KEYNOTES

1	REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTING DEVICE FOR BUILDING FIRE SUPPRESSION SYSTEM. COORDINATE SPACE REQUIREMENTS WITH FIRE CONTRACTOR.
2	NEW INCOMING 6" COMBINED SERVICE TO SPLIT AND SERVE 2-1/2" DOMESTIC SERVICE AND 4" FIRE SUPRESSION SYSTEM. FINAL SIZING TO BE CONFIRMED BY FIRE CONTRACTOR AS PART OF HYDRAULIC CALCULATIONS. ANY FIRE SPRINKLER PIPING SHOWN FOR REFERENCE ONLY, FINAL DESIGN BY FIRE CONTRACTOR.

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FIRE PROTECTION PLAN

100%CD/IFB

FP1.00