GENERAL NOTES

A. ALL CONTRACTORS ARE RESPONSIBLE FOR PROVIDING COMPLETE INSTALLATION OF ALL COMPONENTS AND SHALL COORDINATE THEIR SCOPE OF WORK WITH ALL OTHER TRADES PRIOR TO SUBMITTING BIDS TO ENSURE THERE ARE NO MISSING OR DUPLICATE COMPONENTS WITH-IN THEIR SCOPE

B. DO NOT SCALE DRAWINGS. USE INDICATED DIMENSIONS ONLY.

C. SHOULD A CONTRACTOR FIND DISCREPANCIES OR AMBIGUITIES IN OR OMISSIONS FROM THE DRAWINGS OR SPECIFICATIONS, OR BE IN DOUBT ABOUT THEIR MEANING, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY.

D. CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE JOB DURING CONSTRUCTION LAYOUT AND ADVISE THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO PERFORMING ANY WORK.

E. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS ON-SITE AND ADVISING ARCHITECT OF ANY DISCREPANCIES WITH DEMOLITION OR NEW WORK PLANS PRIOR TO PERFORMING ANY WORK.

F. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY IF ANY UNFORESEEN STRUCTURAL OR UTILITY RELATED ISSUES ARISE DURING DEMOLITION OR EXCAVATION.

G. ALL SPECIFIED ITEMS SHALL BE PROVIDED AND INSTALLED PER MANUFACTURERS WRITTEN REQUIREMENTS

BUILDING CODE INFORMATION

BUILDING CODE	2015 MICHIGAN BUILDING CODE (2012 IBC)
ENERGY CODE	2015 IECC ENERGY CONSERVATION CODE (ASHRAE 90.1, 2013)
PLUMBING CODE	2015 MICHIGAN PLUMBING CODE (2006 IPC)
MECHANICAL CODE	2015 MICHIGAN MECHANICAL CODE (2012 IMC)
ELECTRICAL CODE	2017 MICHIGAN ELECTRICAL CODE (NEC)
ADA	2015 MICHIGAN BUILDING CODE
GENERAL ADMINISTRATIVE RULES 675 IAC 12	

SEE STRUCTURAL DRAWINGS FOR STRUCTURAL DESIGN CRITERIA

PROJECT CRITERIA

OCCUPANCY	(IBC 302)	B S-1 A-3
CONSTRUCTION TYPE	(IBC 602)	V-B
BUILDING ELEMENT FIRE RESISTANCE	(IBC TABLE 601)	
PRIMARY STRUCTURAL FRAME		0 HR
BEARING WALLS EXTERIOR		0 HR
BEARING WALLS INTERIOR		0 HR
NON BEARING INTERIOR WALLS		0 HR
FLOOR CONSTRUCTION		0 HR
ROOF CONSTRUCTION		0 HR
BUILDING EXTERIOR WALL RATING (DISTANCE FROM BUILDING TO PROPERTY LINE OR ADJACENT BUILDING)	(IBC TABLE 602)	
X < 5'		1 HR
5 < x <10'		1 HR
10' < X < 30'		0 HR
X > 30'		0 HR
ALLOWABLE BUILDING HEIGHT - TABLULAR	(IBC 503)	40'
ACTUAL HEIGHT OF BUILDING		35' +/-
BUILDING AREA - TABULAR (II-B - NON-SPRINKLED)	(IBC 503)	23,000 SF 6,000 SF
BUILDING AREA - FRONTAGE INCREASE (II-B - NON-SPRINKLED)	(IBC 503)	28,750 SF 4,500 SF
BUILDING AREA - TOTAL		10,500 SF
BUILDING AREA - ACTUAL		10,479 SF
OCCUPANCY SEPARATIONS	(IBC TABLE 508.4)	
B / A-3		2 HR
S / A-3		2 HR
S / B		2 HR
INCIDENTAL USES - FURNACE ROOM	(IBC TABLE 509)	0 HR
BUILDING SPRINKLERS	(IBC 903)	NO
OCCUPANT LOAD	(IBC 1004.1.2)	
STORAGE		4
OFFICE		12
KITCHEN		3
MULTI-PURPOSE SPACES		63
ASSEMBLY - CHAPEL		89
ASSEMBLY - DINNING		67
FOOD PANTRY		9
MECHANICAL		1
TOTAL OCCUPANT LOAD		248
REQUIRED EXIT WIDTH (OCC. LOAD x 0.2 = 0.00") EGRESS	(IBC 1005.3.2)	49.60"
MAX OCCUPANT LOAD WITH (1) EXIT 49 OCCUPANTS MAX	(MBC 1021.2.(2))	49
MIN. NUMBER OF EXITS REQUIRED	(IBC 1021)	2
NUMBER OF EXITS PROVIDED		5
EXIT TRAVEL DISTANCE (NON-SPRINKLED)	(IBC 1016.2)	75'
ACCESSIBLE ENTRANCE	(IBC CH 11)	1

THERMAL

ASHRAE 90.1 2007 TABLE 5.5-5 ZONE 5
FOR COMMERCIAL PROJECTS ONLY

ROOF R-3.5 C.I. (INSULATION ABOVE DECK)
(DESCRIBE SYSTEM)

EXTERIOR WALLS R-2.3 + R-1.3 C.I. (STEEL FRAMED)
(DESCRIBE SYSTEM)

FOUNDATION INSULATION R-1.3 C.I. (WALLS BELOW GRADE)
(DESCRIBE SYSTEM)

OPAQUE DOORS
3.97 MAX U-FACTOR (SWINGING)

FENESTRATION
2.56 MAX U-FACTOR (CURTAIN WALL/ STOREFRONT)
0.40 MAX SHGC

PROJECT TEAM

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BYCE & ASSOCIATES, INC.
ENGINEERS | ARCHITECTS

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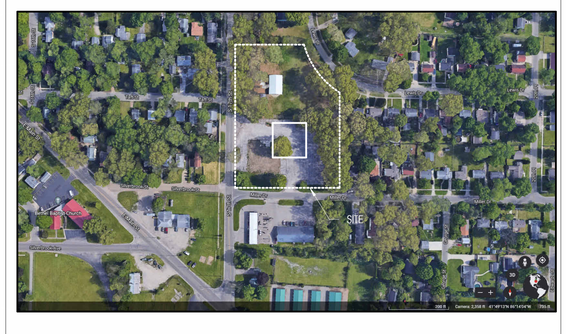
PERSPECTIVE VIEW

VICINITY MAP

LOCATION MAP



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C2.0	SITE LAYOUT PLAN
C3.0	GRADING & DRAINAGE PLAN
C4.0	UTILITY PLAN
C5.0	LANDSCAPE PLAN
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C7.2	CONSTRUCTION DETAILS
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S2.1	FOUNDATION DETAILS
S2.2	FOUNDATION DETAILS
S3.1	STRUCTURAL DETAILS
S3.2	STRUCTURAL DETAILS
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E4.1	ONE-LINE DIAGRAM & DETAILS
EC1.0	ELECTRICAL SITE PLAN

ALTERNATES

ALTERNATE #1

BASE BID: PROVIDE ZIP R-6 INSULATED SHEATHING AT EXTERIOR WALLS AND ZIP SHEATHING AT GABLE ROOF.

ALTERNATE #1: IN LIEU OF BASE BID, AT WALLS PROVIDE 1" T&G XPS RIGID INSULATION OVER ¾" PLYWOOD EXTERIOR WALL SHEATHING. PROVIDE TAPE AT INSULATION PERIMETER AND AT ALL JOINTS, OPENINGS, ETC… TO FORM A COMPLETE WEATHER BARRIER SYSTEM. AT GABLE ROOF PROVIDE ½" PLYWOOD SHEATHING WITH "H" CLIPS OVER PLOYISOCYANURATE RIGID ROOF INSULATION.

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TITLE SHEET

MODELED BY: JCA, JPA, AND
DESIGNED BY: ARD
PM REVIEW: ARD
QA/QC REVIEW: MDN
DATE: 07/31/2023
SEAL:

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ARVIN RIC DELACRUZ
ARCHITECT
No. 1301060203
LICENSED ARCHITECT

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SHEET NO.
T1.1

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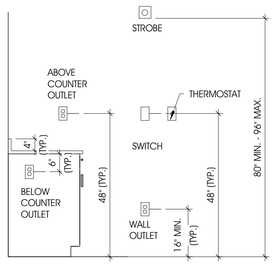
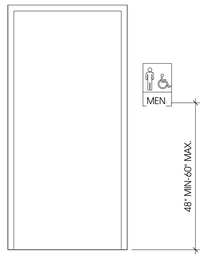


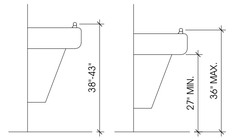
TYP. OUTLET AND SWITCHES

SCALE: 1/2" = 1'-0"



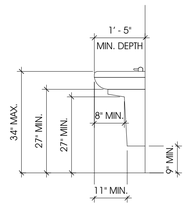
TYP. SIGNAGE

SCALE: 1/2" = 1'-0"



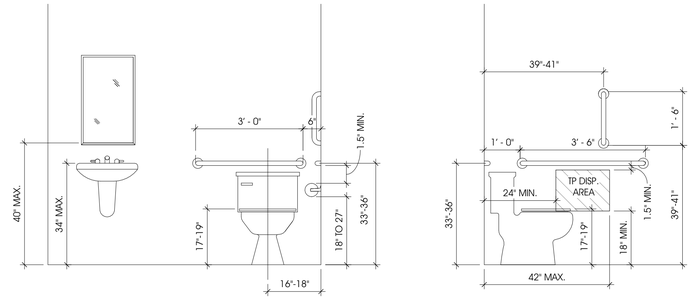
DRINKING FOUNTAIN

SCALE: 1/2" = 1'-0"



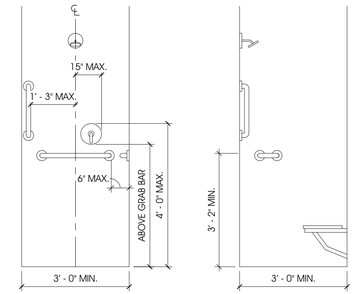
TYP. LAVATORY

SCALE: 1/2" = 1'-0"



TYP. RESTROOM

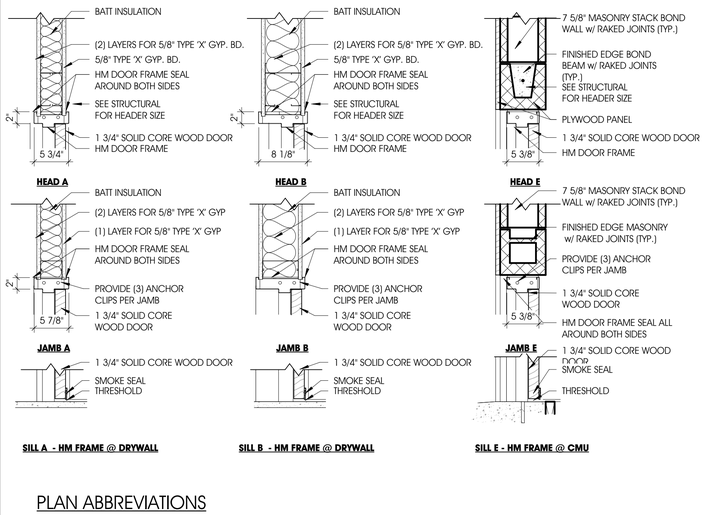
SCALE: 1/2" = 1'-0"



TYP. SHOWER

SCALE: 1/2" = 1'-0"

DOOR FRAME DETAILS



GENERAL NOTES - WALL TYPES

A. METAL STUDS SHALL BE 16" O.C. (TYP) AND SHALL BE CONTINUOUS TO ROOF DECK ABOVE

B. PROVIDE ACOUSTICAL SEALANT AT HEAD AND BASE OF ALL WALLS AND ALL PENETRATION/OPENING LOCATIONS (U.N.O.)

C. PROVIDE SMOKE SEAL WALL ASSEMBLY/FINISH AT ALL FIRE RATED CORRIDOR WALLS, HEAD, BASE, AND PENETRATION/OPENING LOCATIONS

D. PROVIDE UL OR USG RATED ASSEMBLY AT ALL FIRE RATED WALL AND CEILING LOCATIONS

E. PROVIDE 3" MIN. CLOSED CELL POLYISO SPRAY INSULATION AT ALL EXTERIOR METAL STUD WALLS

F. PROVIDE WALL BRACING AS REQUIRED (TYP.)

G. PROVIDE WOOD BLOCKING FOR CASEWORK, GRAB BARS, ACCESSORIES, ETC...

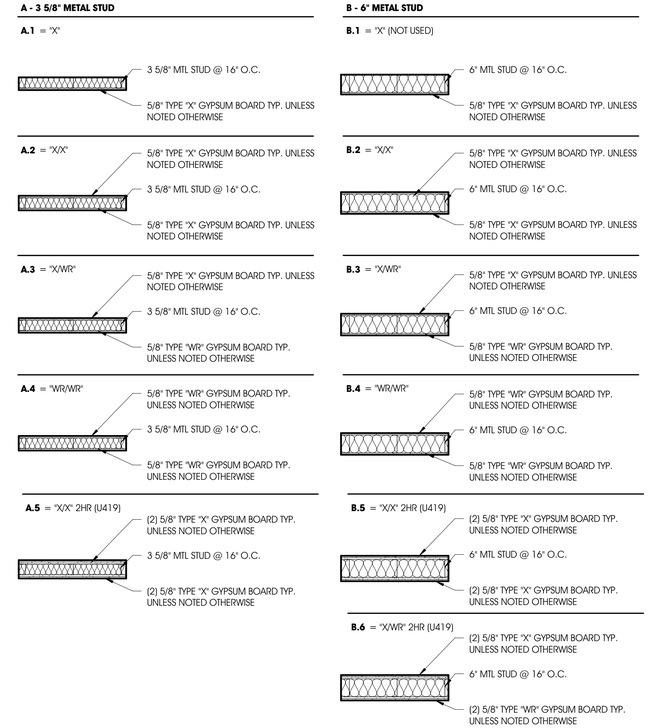
H. PROVIDE 5/8" TYPE "X" GYPSUM WALL BOARD AT ALL WALL AND CEILING LOCATIONS (U.N.O.)

I. PROVIDE 5/8" TYPE "WR" GYPSUM WALL BOARD AT ALL TOILET ROOM CEILINGS AND WALLS, AND AT ALL OTHER WET WALL LOCATIONS

J. REFER TO ROOM FINISH SCHEDULE FOR WALL FINISHES

K. PROVIDE SLIP TYPE HEAD JOINT AT ALL METAL STUD WALLS

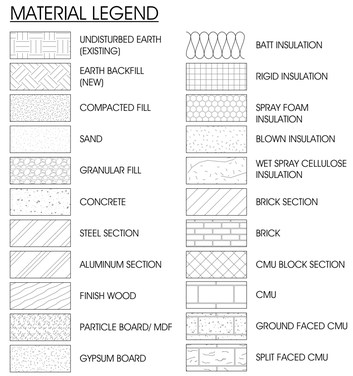
L. PROVIDE CMU WITH FINISHED ENDS AT PERIMETER OF ALL OPENING (JAMBS, SILLS, HEADS, ETC.)



PLAN ABBREVIATIONS

A.C.	AIR CONDITIONING	FIN.	FINISH	PLYW.	PLYWOOD
ADJ	ADJACENT	F.D.	FLOOR DRAIN	P.L.	PROPERTY LINE
A.F.F.	ABOVE FIN. FLOOR	FT.	FOOT/FEET	PNL.	PANEL
AL.	ALUMINUM	FTG.	FOOTING	PR.	PAIR
APPROX.	APPROXIMATE	FDN.	FOUNDATION	P.S.F.	POUNDS PER S.F.
ARCH.	ARCHITECT	FURN.	FURNACE	P.S.I.	POUNDS PER S.I.
&	AND	GALV.	GALVANIZED	P.T.	PRESSURE TREATED
BM.	BEAM	GA	GAUGE	P.V.C.	POLYVINYL CHLORIDE
B.M.	BENCH MARK	G.C.	GENERAL CONTRACTOR	PVMT.	PAVEMENT
BRG.	BEARING	GL.	GLASS	Q.T.	QUARRY TILE
BITUM.	BITUMINOUS	GR.	GRADE	RAD.	RADIUS
BLKG.	BLOCKING	GYP.	GYPSUM	R.A.	RETURN AIR
BD.	BOARD	H.C.	HOLLOW CORE	R. & G.	ROD & GROUT
BOT.	BOTTOM	HDWE.	HARDWARE	R.D.	ROOF DRAIN
B.O.F.	BOTTOM OF FOOTING	H.M.	HOLLOW METAL	REINF.	REINFORCING
BLDG	BUILDING	HORIZ.	HORIZONTAL	REQ'D.	REQUIRED
C/C	CENTER TO CENTER	H.P.	HIGH POINT	R.H.	RIGHT HAND
C.B.	CATCH BASIN	HVAC	HEATING/VENTING/AIR COND.	RM.	ROOM
CEM.	CEMENT	HT., H.	HEIGHT/HIGH	R.O.	ROUGH OPENING
CER.	CERAMIC	HW.	HARDWOOD	RND.	ROUND
C.I.	CAST IRON	I.D.	INSIDE DIAMETER	S.A.	SUPPLY AIR
C.I.P.	CAST IN PLACE	INSUL.	INSULATION	S.C.	SOLID CORE
C.J.	CONTROL JOINT	INT.	INTERIOR	SCHED.	SCHEDULE
CLG.	CEILING	INV.	INVERT	SEC.	SECTION
CL	CENTERLINE	LAM.	LAMINATED	S.F.	SQUARE FOOT
CLO.	CLOSET	L.H.	LEFT HAND	SHT., SH.	SHEET
C.M.U.	CONCRETE MASONRY UNIT	LIN.	LINEAR	S.I.	SQUARE INCH
C.O.	CLEAN OUT	L.L.	LIVE LOAD	SIM.	SIMILAR
COL.	COLUMN	L.P.	LOW POINT	SPEC.	SPECIFICATIONS
CONTR.	CONTRACTOR	MAS.	MASONRY	SQ.	SQUARE
CONC.	CONCRETE	MAT.	MATERIAL	STOR.	STORAGE
CONN.	CONNECTION	MAX.	MAXIMUM	STL.	STEEL
CONT.	CONTINUOUS	MET.	METAL	STRUCT.	STRUCTURAL
CPT.	CARPET	M.T.	MARBLE THRESHOLD	SUSP.	SUSPEND(ED)
C.S.	CARPET STRIP	MTD.	MOUNTED	T & B	TOP & BOTTOM
C.T.	CERAMIC TILE	MECH.	MECHANICAL	TEL.	TELEPHONE
D.L.	DEAD LOAD	MFR.	MANUFACTURER	TG.	TEMPERED GLASS
D.	DEEP/DEPTH	M.H.	MANHOLE	T & G	TONGUE & GROOVE
DET.	DETAIL	MIN.	MINIMUM	THK.	THICKNESS
DIA.	DIAMETER	MISC.	MISCELLANEOUS	T.O.	TOP OF
DIM.	DIMENSION	M.O.	MASONRY OPENING	T.O.C.	TOP OF CONCRETE
DN.	DOWN	MR.	MIRROR	T.O.F.	TOP OF FOOTING
DWG.	DRAWING	N.I.C.	NOT IN CONTRACT	T.O.S.	TOP OF STEEL
EA.	EACH	NO., #	NUMBER	T.O.W.	TOP OF WALL
ELEC.	ELECTRIC(AL)	NOM.	NOMINAL	TYP.	TYPICAL
ELEV., EL.	ELEVATION	N.T.S.	NOT TO SCALE	U.N.O.	UNLESS NOTED OTHERWISE
E.W.	EACH WAY	#	NUMBER/POUND	VERT.	VERTICAL
E.Q.	EQUAL	O.A.	OVERALL	VCT.	VINYL COMPOSITION TILE
EXP.	EXPANSION	O.C.	ON CENTER	VWC.	VINYL WALL COVERING
E.J.	EXPANSION JOINT	O.D.	OUTSIDE DIAMETER	W.C.	WATER CLOSET
EXIST.	EXISTING	O.H.	OVERHEAD	WCT.	WAINSCOAT
EXT.	EXTERIOR	OPNG.	OPENING	WH.	WATER HEATER
EQUIP.	EQUIPMENT	OPP. HD.	OPPOSITE HAND	WD.	WOOD
F.O.B.	FACE OF BRICK	PTN.	PARTITION	WWF.	WELDED WIRE FABRIC
F.O.C.	FACE OF CONCRETE	P.C.	PRECAST	W/	WITH
F.O.M.	FACE OF MASONRY	PLAM.	PLASTIC LAMINATE	W/O	WITHOUT
F.O.S.	FACE OF STUD	PLAS.	PLASTER	XFMR.	TRANSFORMER

MATERIAL LEGEND



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PROJECT:

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1707 MILLER DR. NILES, MI 49120

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DESIGNED BY: ARD
PM REVIEW: ARD
QA/QC REVIEW: MDN
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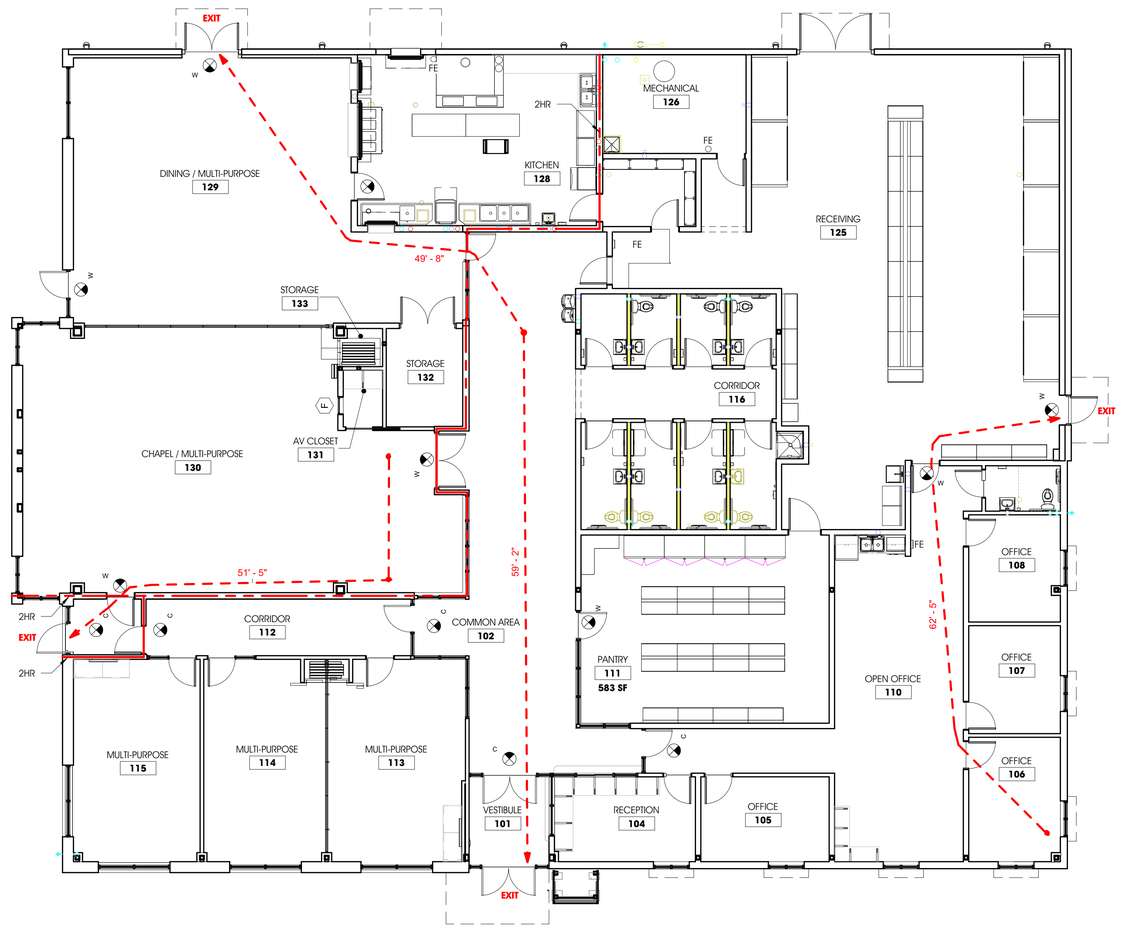
SHEET NO. T1.2



1 / T1.3 T1.2 FIRST FLOOR - LIFE SAFETY PLAN
1/8" = 1'-0"

GENERAL NOTES - LIFE SAFETY

A. TOTAL BUILDING OCCUPANCY OF 198 PEOPLE

B. 2 EXITS PROVIDED FROM EXISTING BUILDING, 1 REQUIRED PER IBC 2012 SECTION 1015

C. PER IBC 2012 SECTION 1014.3 COMMON PATH OF EGRESS TRAVEL DOES NOT EXCEED 75'-0".

D. PER IBC 2012 TABLE 1016.2 EXIT TRAVEL DISTANCE DOES NOT EXCEED 200'-0"

E. EXTERIOR BEARING WALLS TO BE 2 HOUR RATED - EXISTING MASONRY WALLS MEET RATING PER SECTION 722.4.1(1)

F. FLOORS TO BE 1 HOUR RATED PER PROSCRIPTIVE METHOD USING (2) LAYERS OF 5/8" FIRE RATED GYP. BOARD AT CEILING

G. CORRIDORS & WALLS BETWEEN UNITS TO BE 1 HOUR RATED AS FOLLOWS;
U419 AT CORRIDORS TO UNITS W/ RC CHANNEL
U423 BETWEEN GARAGES & BETWEEN TRASH & CORR. W/ 1/2" PLYWOOD
U493 BETWEEN UNITS W/ SOUND INSUL

H. SHAFT WALLS & CEILINGS TO BE 1 HOUR RATED (SHAFT WALLS TO BE U419 & CEILINGS TO HAVE (2) LAYERS OF 5/8" FIRE RATED GYP. BOARD)

I. INTERIOR WALLS OF GARAGES TO BE 8" CMU (U906 NON-BEARING) UNLESS NOTED OTHERWISE

J. ALL DOORS THROUGH FIRE WALLS TO HAVE FIRE RATING PER DOOR SCHEDULE W/ SMOKE SEALS & CLOSERS

K. ALL REQUIRED EGRESS DOORS FROM PUBLIC SPACES TO EXTERIOR TO HAVE PANIC HARDWARE

LIFE SAFETY PLAN LEGEND

FE — WALL HUNG FIRE EXTINGUISHER

FE — PARTIALLY RECESSED ROLLED EDGE CABINET

PATH OF TRAVEL

2 HOUR FIRE RATED WALLS

EXIT SIGN - DUAL LAMP
DIRECTIONAL ARROWS
W = BACK WALL MOUNTED
S = SIDE WALL MOUNTED
C = CEILING MOUNTED
DIRECTIONAL ARROWS

CODE REVIEW

CONSTRUCTION TYPES (CHAPTER 05):

TYPE OF CONSTRUCTION: TYPE-II B
FIRE SUPPRESSION SYSTEM: NONE

HEIGHT & STORY LIMITATIONS (SECTION 504):

ALLOWED:		PROVIDED:	
MAX HEIGHT:	55'	HEIGHT:	35' +/- (REFER TO ELEVATIONS)
MAX STORIES:	2	STORIES:	1

OCCUPANCY LOAD PER USE GROUP (CHAPTER 10):

A3 -	CHAPEL, DINING, STORAGE, AV	2,523 SF/15	= 168.2
B -	OFFICE	5,100 SF/100	= 51
S -	WAREHOUSE	2,150 SF/500	= 4.3
A2 -	KITCHEN	550 SF/200	= 2.8
TOTAL			= 226.3

PLUMBING CODE (CHAPTER 04):

		ALLOWED: WC:	ALLOWED: LAV:	PROVIDED:
A3 -	CHAPEL, DINING, STORAGE, AV	1:150 ~1:75	1:200	3
B -	OFFICE	1:25	1:40	3
S -	WAREHOUSE	1:100	1:100	1
A2 -	KITCHEN	-	-	1

NO.	REVISION DESCRIPTION	BY	DATE

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PROJECT:
DOING THE MOST GOOD
NILES FACILITY
1707 MILLER DR. NILES, MI 49120

SHEET TITLE:
LIFE SAFETY PLAN

MODELED BY: AND
DESIGNED BY: ARD
PM REVIEW: ARD
QA/QC REVIEW: MDN
DATE: 07/31/2023
SEAL: STATE OF MICHIGAN ARVIN RIC DELACRUZ ARCHITECT No. 1301060203 LICENSED ARCHITECT
SIGNATURE:
DATE:

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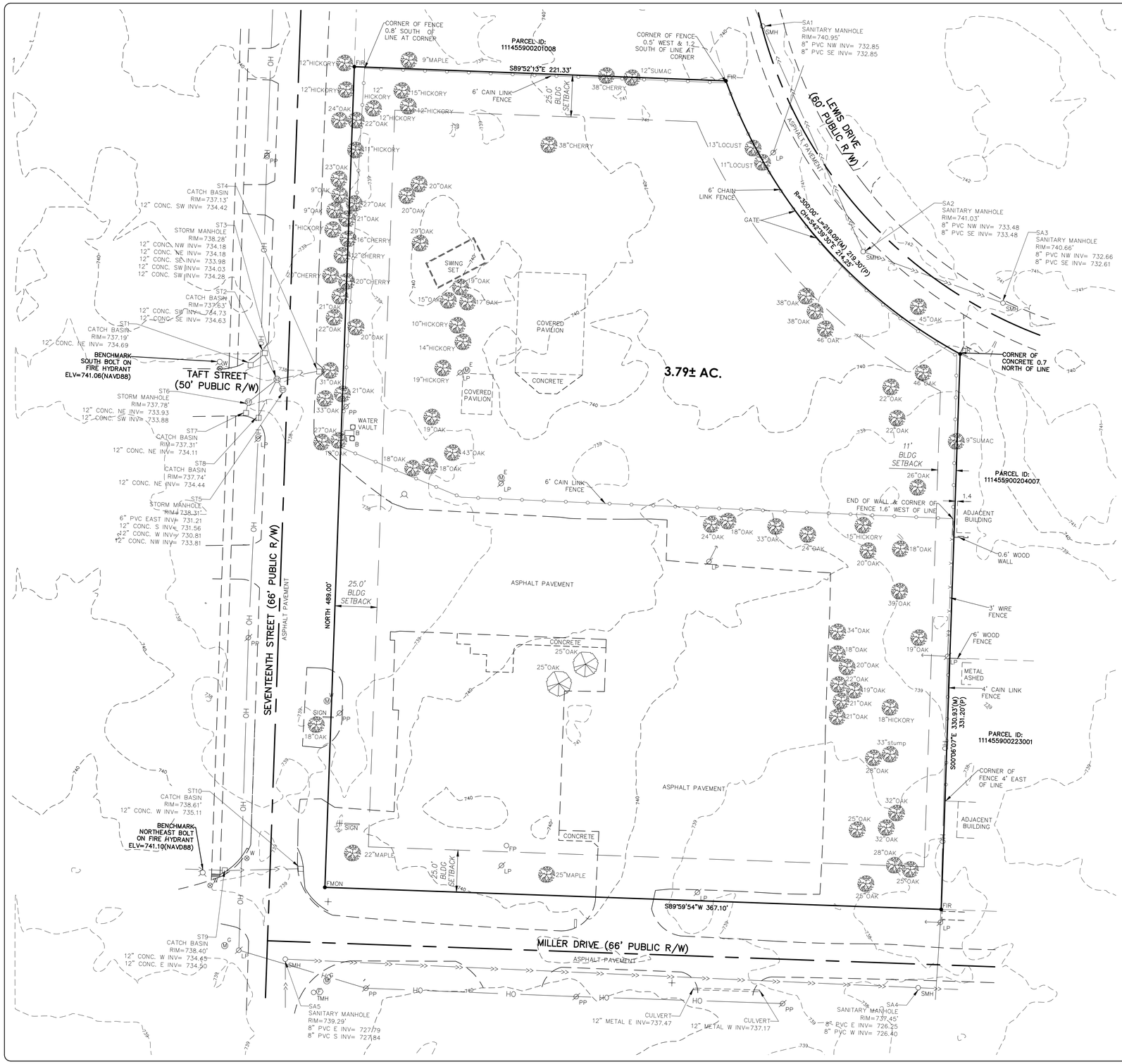
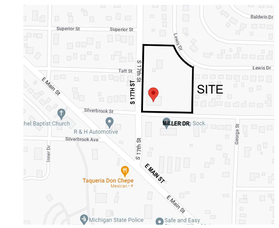
ACI JOB #
22-0578

SHEET NO.
T1.3

7/27/2023 4:44:15 PM O:\Projects\2022\22-0578 Salvation Army - Niles Bldg\1 Drawing Files_Arch_Revit





LOCATION MAP
NOT TO SCALE

LEGEND:

- ELECTRIC METER
- POWER POLE
- LIGHT POLE
- GUY WIRE
- FIRE HYDRANT
- WATER VALVE
- SANITARY MANHOLE
- STORM MANHOLE
- CATCH BASIN
- TELEPHONE MANHOLE
- GAS MANHOLE
- FIBER OPTIC MARK
- SIGN
- MAILBOX
- BOLLARD
- FOUND IRON
- FOUND MONUMENT
- TREE
- STORM DRAINAGE PIPE
- SANITARY SEWER PIPE
- OVERHEAD LINE
- WIRE FENCE
- CHAIN LINK FENCE
- WOOD FENCE

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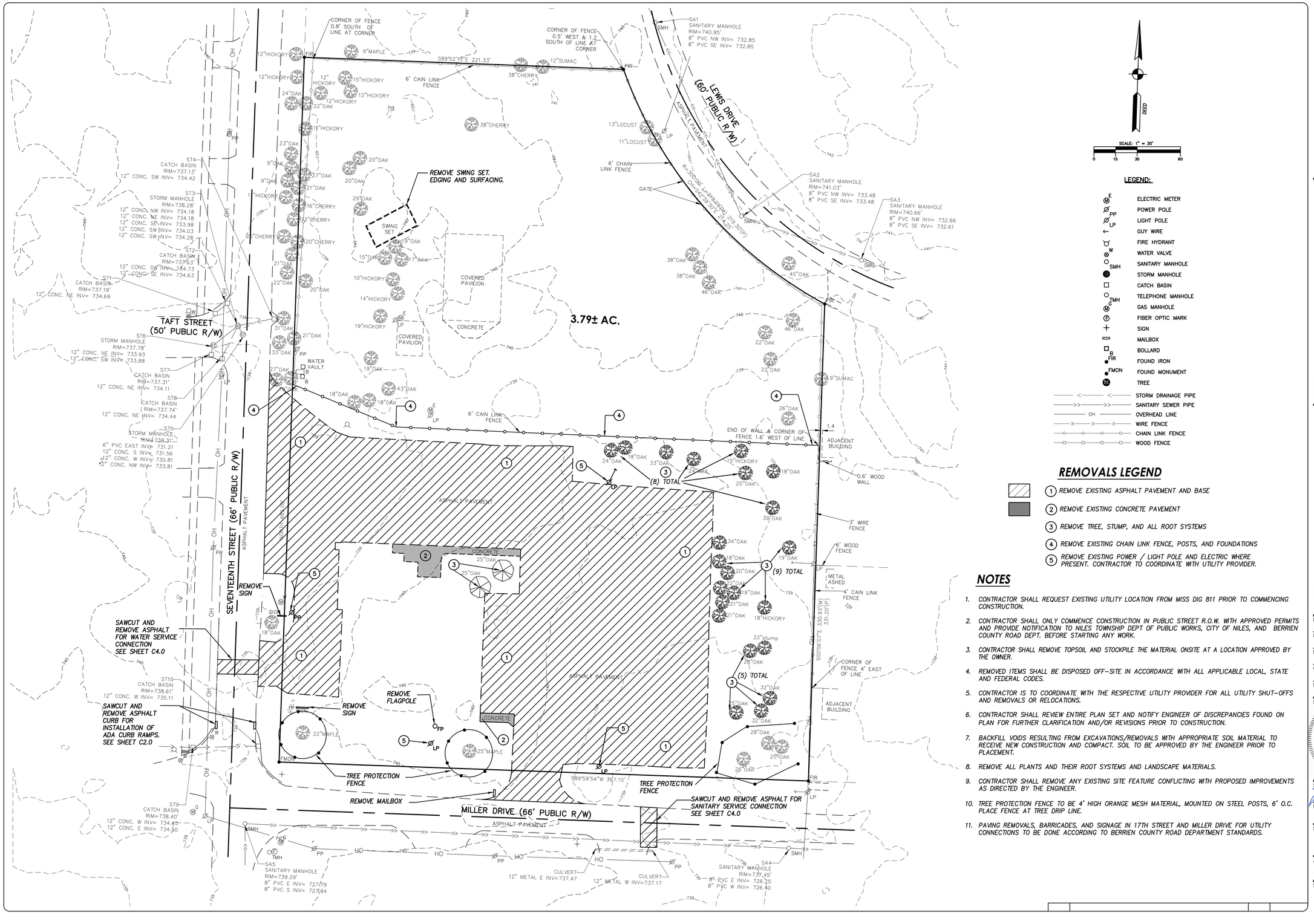
PROJECT:
SALVATION ARMY-NILES FACILITY
THE SALVATION ARMY
1707 MILLER DRIVE
NILES MI 49120

SHEET TITLE:
EXISTING CONDITIONS

DRAWN BY: PHW
DESIGNED BY:
PM REVIEW: ARD
QA/QC REVIEW: RAD
DATE: JULY 31, 2023
SEAL: JEFFREY D. SCHAFFER REGISTERED PE11300116 STATE OF INDIANA PROFESSIONAL ENGINEER
SIGNATURE:
DATE: 07/31/2023
SCALE: HORZ: 1" = 30' VERT:
ACI JOB #: 22-0578
SHEET NO. C0.1



LEGEND:

- ELECTRIC METER
- POWER POLE
- LIGHT POLE
- GUY WIRE
- FIRE HYDRANT
- WATER VALVE
- SANITARY MANHOLE
- STORM MANHOLE
- CATCH BASIN
- TELEPHONE MANHOLE
- GAS MANHOLE
- FIBER OPTIC MARK
- SIGN
- MAILBOX
- BOLLARD
- FOUND IRON
- FOUND MONUMENT
- TREE
- STORM DRAINAGE PIPE
- SANITARY SEWER PIPE
- OVERHEAD LINE
- WIRE FENCE
- CHAIN LINK FENCE
- WOOD FENCE

REMOVALS LEGEND

1. REMOVE EXISTING ASPHALT PAVEMENT AND BASE
2. REMOVE EXISTING CONCRETE PAVEMENT
3. REMOVE TREE, STUMP, AND ALL ROOT SYSTEMS
4. REMOVE EXISTING CHAIN LINK FENCE, POSTS, AND FOUNDATIONS
5. REMOVE EXISTING POWER / LIGHT POLE AND ELECTRIC WHERE PRESENT. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER.

NOTES

1. CONTRACTOR SHALL REQUEST EXISTING UTILITY LOCATION FROM MISS DIG 811 PRIOR TO COMMENCING CONSTRUCTION.
2. CONTRACTOR SHALL ONLY COMMENCE CONSTRUCTION IN PUBLIC STREET R.O.W. WITH APPROVED PERMITS AND PROVIDE NOTIFICATION TO NILES TOWNSHIP DEPT OF PUBLIC WORKS, CITY OF NILES, AND BERRIEN COUNTY ROAD DEPT. BEFORE STARTING ANY WORK.
3. CONTRACTOR SHALL REMOVE TOPSOIL AND STOCKPILE THE MATERIAL ONSITE AT A LOCATION APPROVED BY THE OWNER.
4. REMOVED ITEMS SHALL BE DISPOSED OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES.
5. CONTRACTOR IS TO COORDINATE WITH THE RESPECTIVE UTILITY PROVIDER FOR ALL UTILITY SHUT-OFFS AND REMOVALS OR RELOCATIONS.
6. CONTRACTOR SHALL REVIEW ENTIRE PLAN SET AND NOTIFY ENGINEER OF DISCREPANCIES FOUND ON PLAN FOR FURTHER CLARIFICATION AND/OR REVISIONS PRIOR TO CONSTRUCTION.
7. BACKFILL VOIDS RESULTING FROM EXCAVATIONS/REMOVALS WITH APPROPRIATE SOIL MATERIAL TO RECEIVE NEW CONSTRUCTION AND COMPACT. SOIL TO BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT.
8. REMOVE ALL PLANTS AND THEIR ROOT SYSTEMS AND LANDSCAPE MATERIALS.
9. CONTRACTOR SHALL REMOVE ANY EXISTING SITE FEATURE CONFLICTING WITH PROPOSED IMPROVEMENTS AS DIRECTED BY THE ENGINEER.
10. TREE PROTECTION FENCE TO BE 4' HIGH ORANGE MESH MATERIAL, MOUNTED ON STEEL POSTS, 6' O.C. PLACE FENCE AT TREE DRIP LINE.
11. PAVING REMOVALS, BARRICADES, AND SIGNAGE IN 17TH STREET AND MILLER DRIVE FOR UTILITY CONNECTIONS TO BE DONE ACCORDING TO BERRIEN COUNTY ROAD DEPARTMENT STANDARDS.

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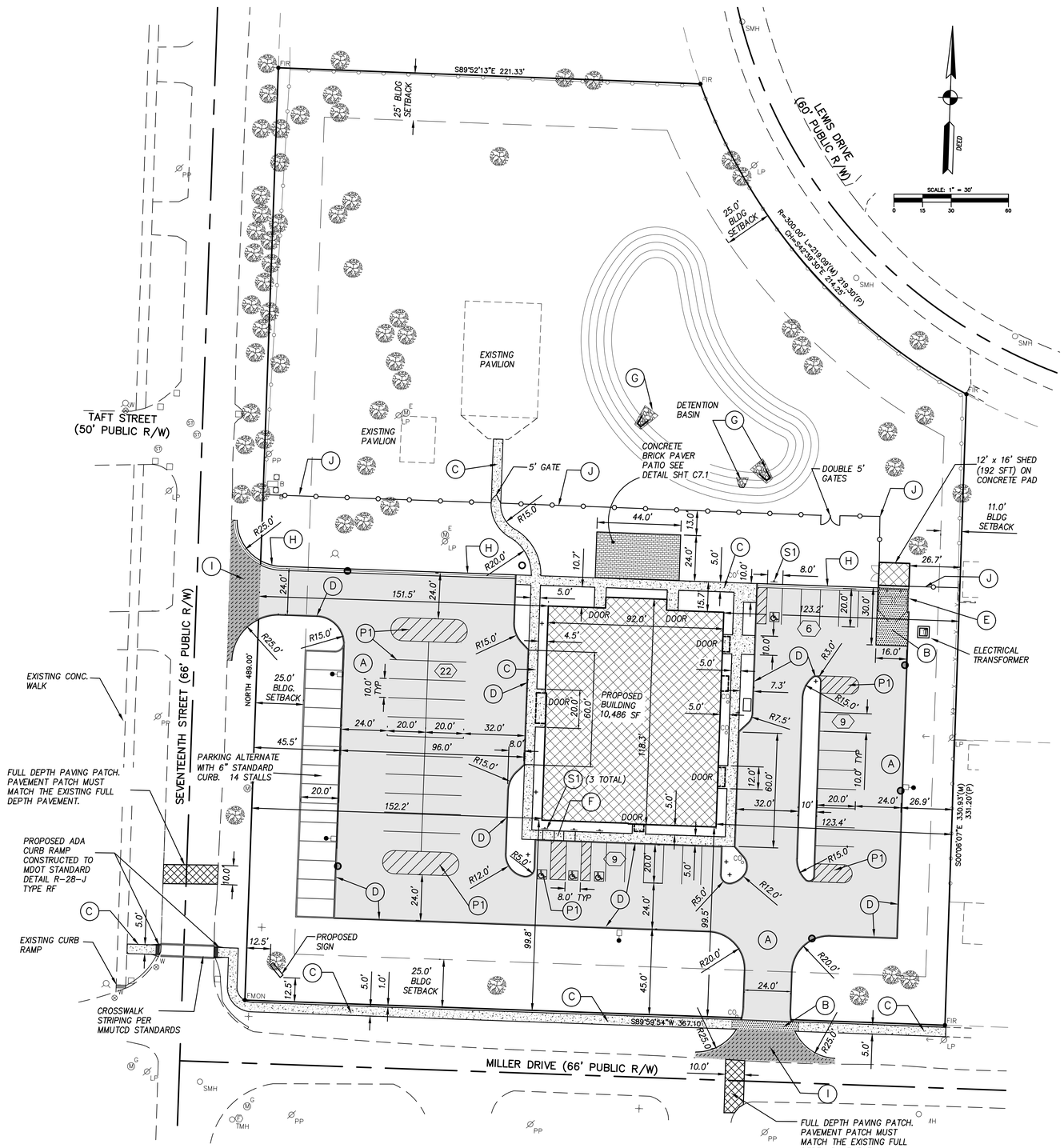
PROJECT:
SALVATION ARMY-NILES FACILITY
THE SALVATION ARMY
1707 MILLER DRIVE
NILES MI 49120

SHEET TITLE:
REMOVALS PLAN

DRAWN BY: PHW
DESIGNED BY: PHW
PM REVIEW: ARD
QA/QC REVIEW: RAD
DATE: JULY 31, 2023
SEAL: JEFFREY D. SCHAFER REGISTERED PE11300116 STATE OF INDIANA PROFESSIONAL ENGINEER
SIGNATURE:
DATE: 07/31/2023
SCALE: HORZ: 1" = 30' VERT:
ACI JOB # 22-0578
SHEET NO. C1.0



PROPOSED FEATURES LEGEND

- PROPOSED BUILDING
- (A) PROPOSED STANDARD DUTY ASPHALT PAVING
- (B) PROPOSED 6" THICK CONCRETE
- (C) PROPOSED 4" CONCRETE SIDEWALK
- (D) PROPOSED STANDARD 6"CONCRETE CURB
- (E) PROPOSED 12'x 16' x 6' HIGH MASONRY REFUSE ENCLOSURE AND GATES
- (F) PROPOSED BARRIER FREE PARKING CURB RAMP
- (G) STORM END SECTION WITH RIP-RAP
- (H) PROPOSED 4" ROLL-OVER CURB AND GUTTER
- (I) PROPOSED HEAVY DUTY ASPHALT PAVING
- (J) PROPOSED 4' HIGH CHAIN LINK FENCE SEE SPECIFICATIONS
- (S1) R7-8: "RESERVED PARKING" (ADA ACCESS) & R7-8P: "VAN ACCESSIBLE"
- (P1) 4" SOLID PAINT LINE YELLOW FOR PARKING SPACE BLUE FOR ADA PARKING SPACE AND AISLE
- PROPOSED LED AREA LIGHT ON 20' POLE
- DRAINAGE STRUCTURE
- STORM MANHOLE
- (12) NUMBER OF PARKING SPACES IN PARKING BAY

PROPOSED LOT COVERAGE

PROPOSED MAIN BUILDING	10,486 SF	6.4%
PROPOSED SHED BUILDING	192 SF	0.1%
EXISTING BUILDINGS TO REMAIN	2832 SF	1.7%
PROPOSED ASPHALT PAVEMENT	41,200 SF	25.0%
PROPOSED HEAVY CONCRETE	476 SF	0.3%
PROPOSED CONCRETE SIDEWALK	3300 SF	2.0%
PROPOSED PAVER PATIO	1056 SF	0.6%
PROPOSED PARKING ALTERNATE	2800 SF	1.7%
TOTAL IMPERVIOUS AREA	62,342 SF	37.83%
TOTAL LAWN AND LANDSCAPING	101,568 SF	62.2%
TOTAL SUBJECT PROPERTY AREA	164,910 SF	100.0%

GENERAL NOTES

1. CURRENT ZONING: 'LB' LOCAL BUSINESS
2. EXISTING LAND USE: ASSEMBLY HALL
3. PROPOSED LAND USE: ASSEMBLY/OFFICE
4. BUILDING SETBACKS : FRONT/REAR= 25' SIDE=11'
5. THE BUILDING WILL BE SERVICED BY NILES CHARTER TOWNSHIP MUNICIPAL WATER AND SEWER.
6. LANDSCAPING, LIGHTING & SIGNAGE WILL BE IN ACCORDANCE WITH THE NILES CHARTER TOWNSHIP ZONING ORDINANCE UNLESS THE PROPER VARIANCES ARE OBTAINED.
7. STORM WATER WILL BE DETAINED ON SITE PER THIS PLAN SET.
8. SEE ARCHITECTURAL DRAWINGS FOR BUILDING ELEVATIONS AND LAYOUT.
9. PROPOSED BUILDING HEIGHT 35'
10. DIMENSIONS AS SHOWN ARE FACE OF CURB
11. RADII ARE SHOWN TO FACE OF CURB
12. FLOODPLAIN: PER FEMA MAP NUMBER 26021C0428C EFFECTIVE 04/17/2006, THIS PARCEL IS LOCATED IN FLOOD ZONE "X" AREAS DETERMINED TO BE OUTSIDE THE 0.2% CHANCE OF ANNUAL FLOODPLAIN.
13. WETLANDS : ACCORDING TO NATIONAL WETLANDS INVENTORY MAP SITE CONTAINS NO WETLANDS NOR ARE PRESENT ON ADJACENT PROPERTIES.
14. REQUIRED PARKING PER NILES CHARTER TOWNSHIP ZONING ORDINANCE

    TOTAL REQUIRED PARKING = 46 SPACES

    PROPOSED PARKING:(43) 10'X20' SPACES + (3) 8'X20' ADA SPACES

    TOTAL PROPOSED PARKING = 46 (PARKING ALTERNATE + 14 SPACES = 60 SPACES TOTAL)

THROUGH FURTHER ANALYSIS ON DIFFERENT USE TYPES, THERE WAS AN ANTICIPATED AMOUNT OF 61 SPACES. HOWEVER, CORRESPONDING TO THE HOURS OF VARIOUS ACTIVITIES, AN ALLOTTED 46 SPOTS PROVIDES THE STANDARD NEEDS AS WELL AS ADDITIONAL ADJACENT PARKING, AVAILABLE FOR USE.

SITE PLAN CONSTRUCTION NOTES

1. CONTRACTOR SHALL REQUEST EXISTING UTILITY LOCATION FROM MISS DIG 811 PRIOR TO COMMENCING CONSTRUCTION.
2. DAMAGE TO PUBLIC AND PRIVATE PROPERTY AS A RESULT FROM CONSTRUCTION SHALL BE REPAIRED TO EQUAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE OWNER.
3. NO STREETS SHALL BE CLOSED OR RESTRICTED WITHOUT PRIOR APPROVAL FROM THE LOCAL AUTHORITY HAVING JURISDICTION..
4. CONTRACTOR SHALL PROTECT THE WORK AND THE SAFETY OF THE PUBLIC AND SHALL PROVIDE, ERECT AND MAINTAIN BARRICADES, SIGNALS, SIGNS AND OTHER TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND AS DIRECTED BY THE AUTHORITY HAVING JURISDICTION.
5. CONTRACTOR SHALL CONSTRUCT SIDEWALKS, RAMPS, PARKING SPACES AND ADA ACCESSIBLE AREAS IN ACCORDANCE WITH THE CURRENT ADA STANDARDS.
6. TRAFFIC SIGN DESIGNATIONS SHALL COMPLY WITH THE U.S. DEPT. OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).
7. CURB RADII NOTED ARE DIMENSIONED ALONG THE FACE OF CURB.
8. CONTRACTOR SHALL BRING DRAWING DISCREPANCIES AND CONFLICTS TO THE ATTENTION OF THE ENGINEER AS SOON AS THEY ARE NOTICED, FOR CLARIFICATIONS AND REVISIONS AS NECESSARY.
9. CONTRACTOR SHALL PREPARE RECORD DRAWINGS WITH FIELD LOCATIONS AND ELEVATIONS UPON COMPLETION OF THE WORK FOR SUBMITTAL TO THE ENGINEER.

1	FENCE/DETENTON BASIN/PATIO LANDSCAPE	PHW	7-19-23

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PROJECT:
SALVATION ARMY-NILES FACILITY
THE SALVATION ARMY
1707 MILLER DRIVE
NILES MI 49120

SHEET TITLE: SITE LAYOUT PLAN

DRAWN BY: PHW
DESIGNED BY: JDS
PM REVIEW: ARD
QA/QC REVIEW: RAD
DATE: JULY 31, 2023

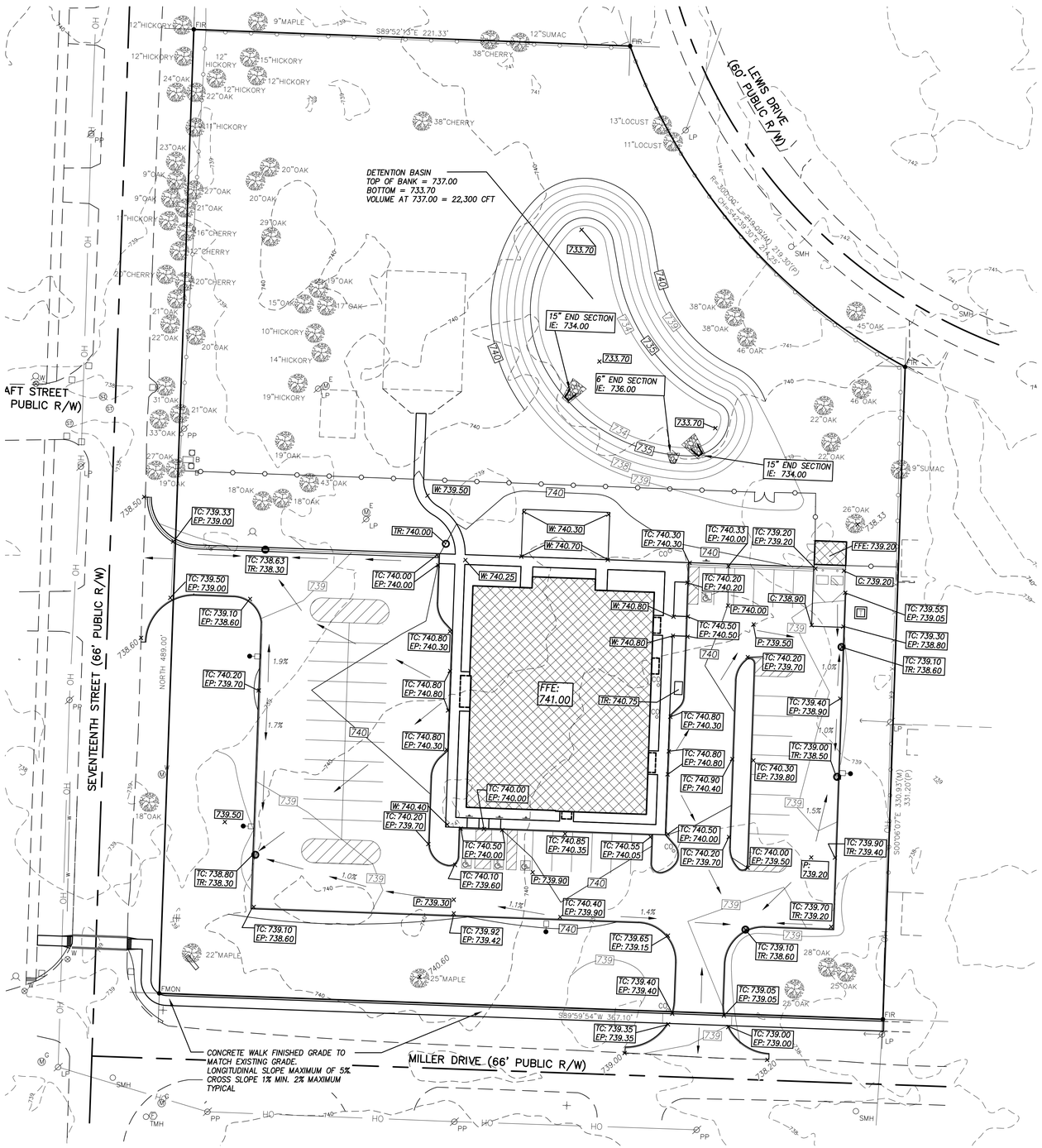
SEAL: JEFFREY D. SCHAFFER REGISTERED PE11300116 STATE OF INDIANA PROFESSIONAL ENGINEER

SIGNATURE:
DATE: 07/31/2023

SCALE:
HORZ: 1" = 30'
VERT:

ACI JOB #
22-0578

SHEET NO.
C2.0



SCALE: 1" = 30'

GRADING LEGEND

TR:729.30	STRUCTURE RIM ELEV.
FFE:722.96	FINISHED FLOOR ELEV.
TC:722.42 EP:721.92	TOP OF CURB ELEV. FINISHED PAVEMENT ELEV.
P:722.96	FINISHED PAVEMENT ELEV.
W:722.96	FINISHED SIDEWALK ELEV.
× 722.96	EXISTING ELEVATION
723	EXISTING CONTOUR
722	PROPOSED CONTOUR
	DIRECTION OF DRAINAGE FLOW & SLOPE

BERRIEN COUNTY DETENTION POND DESIGN CALCULATION SPREADSHEET

Project Name: Salvation Army — Proposed Percent Imperviousness: 38% (K)
Project Location: Niles Charter Township — Proposed Runoff "C" Value: 0.47
Maximum Allowable Outflow (CFS): 0.57 (G)
Cont. Drainage Area (Acres): 3.79 (L) — Storm Recurrence Interval (Yrs): 25

A	B	C	D	E	F	G	H	I	J
Duration (Minutes)	Duration (Hours)	25-Year Total Rainfall (Inches)	25-Year Rainfall Intensity (Inch/Hr)	Proposed Runoff Flowrate (CFS)	Proposed Runoff Volume (CFT)	Maximum Allowable Outflow (CFS)	Required Detention Storage (CFT)	Required Retention Storage (CFT)	Total Required Storage (CFT)
5	0.08	0.53	6.36	11.23	3,370	0.57	3,285	6878.85	10,163
10	0.17	0.93	5.58	9.86	5,913	0.57	5,742	6878.85	12,621
15	0.25	1.20	4.80	8.48	7,630	0.57	7,374	6878.85	14,253
20	0.33	1.35	4.05	7.15	8,583	0.57	8,242	6878.85	15,121
30	0.50	1.65	3.30	5.83	10,491	0.57	9,979	6878.85	16,858
40	0.67	1.8	2.70	4.77	11,445	0.57	10,762	6878.85	17,641
50	0.83	1.95	2.34	4.13	12,398	0.57	11,546	6878.85	18,424
60	1.00	2.09	2.09	3.69	13,288	0.57	12,265	6878.85	19,144
90	1.50	2.35	1.57	2.77	14,942	0.57	13,407	6878.85	20,285
120	2.00	2.58	1.29	2.28	16,404	0.57	14,357	6878.85	21,236
180	3.00	2.85	0.95	1.68	18,121	0.57	15,051	6878.85	21,930
360	6.00	3.34	0.56	0.98	21,236	0.57	15,096	6878.85	21,975
720	12.00	3.87	0.32	0.57	24,606	0.57	12,326	6878.85	19,205
1080	18.00	4.18	0.23	0.41	26,577	0.57	8,157	6878.85	15,036
1440	24.00	4.45	0.19	0.33	28,294	0.57	3,734	6878.85	10,613

Total Storage Detention and Retention Required Storage (CFT): **21,975**

NOTE – DETENTION BASIN OUTFLOW IS VIA INFILTRATION AT A RATE OF 7" PER HOUR OVER 4800 SQUARE FEET AT 0.78 CFS

GRADING PLAN CONSTRUCTION NOTES:

1. CONTRACTOR SHALL REMOVE TOPSOIL AND STOCKPILE THE MATERIAL ONSITE AT A LOCATION APPROVED BY THE OWNER. PLACE A MINIMUM OF 4 INCHES OF TOPSOIL ON ALL DISTURBED AREAS OUTSIDE THE BUILDING AND PARKING AREAS.
2. A QUALIFIED SOIL TESTING FIRM APPROVED BY THE OWNER SHALL PERFORM COMPACTION TESTING DURING CONSTRUCTION.
3. PRIOR TO COMMENCING PAVING OPERATIONS, CONTRACTOR SHALL PROOF ROLL EXPOSED SUBGRADE WITH A GEOTECHNICAL ENGINEER OR QUALIFIED REPRESENTATIVE TO WITNESS THE WORK. EXCAVATE UNSUITABLE SOIL AND BACKFILL AND COMPACT WITH SUITABLE MATERIAL CAPABLE OF SUPPORTING THE ANTICIPATED LOADS.
4. PLACE SITE GRADING BACKFILL IN MAXIMUM SIX INCH LIFTS AND COMPACT TO 100% STANDARD PROCTOR TO THE TOP OF SUBGRADE OR IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
5. FINISHED GRADES AT BUILDING DOORWAYS SHALL MATCH THE BUILDING FINISHED FLOOR ELEVATION, UNLESS OTHERWISE NOTED.
6. CONTRACTOR IS RESPONSIBLE FOR MEETING ADA GUIDELINES AT SIDEWALKS AND PARKING AREAS.
7. PAVING CONTRACTOR IS RESPONSIBLE FOR ADJUSTING ALL CASTINGS LOCATED IN THE PAVEMENT TO FINISHED GRADE.
8. THE PROPOSED CONTOURS AND SPOT ELEVATIONS ON THIS DRAWING SHOW GRADING INTENT ONLY. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THAT THE PROVIDED GRADING PLAN MAINTAINS POSITIVE DRAINAGE TO PREVENT PONDED WATER OR ENCROACHMENT ONTO ADJACENT PROPERTIES; AND SHALL CONTACT THE ENGINEER IF ADDITIONAL GRADES ARE NEEDED, IF THE DESIGN DOES NOT PROVIDE POSITIVE DRAINAGE, OR IF ANY DISCREPANCIES/CONFLICTS ARE FOUND.

1	FENCE/DETENTON BASIN/PATIO LANDSCAPE	PHW	7–19–23

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PROJECT:
SALVATION ARMY-NILES FACILITY
THE SALVATION ARMY
1707 MILLER DRIVE
NILES MI 49120

SHEET TITLE:
GRADING AND DRAINAGE PLAN

DRAWN BY: PHW
DESIGNED BY: PHW
PM REVIEW: ARD
QA/QC REVIEW: RAD
DATE: JULY 31, 2023
SEAL: JEFFREY D. SCHAFFER REGISTERED PE11300116 STATE OF INDIANA PROFESSIONAL ENGINEER
SIGNATURE:
DATE: 07/31/2023
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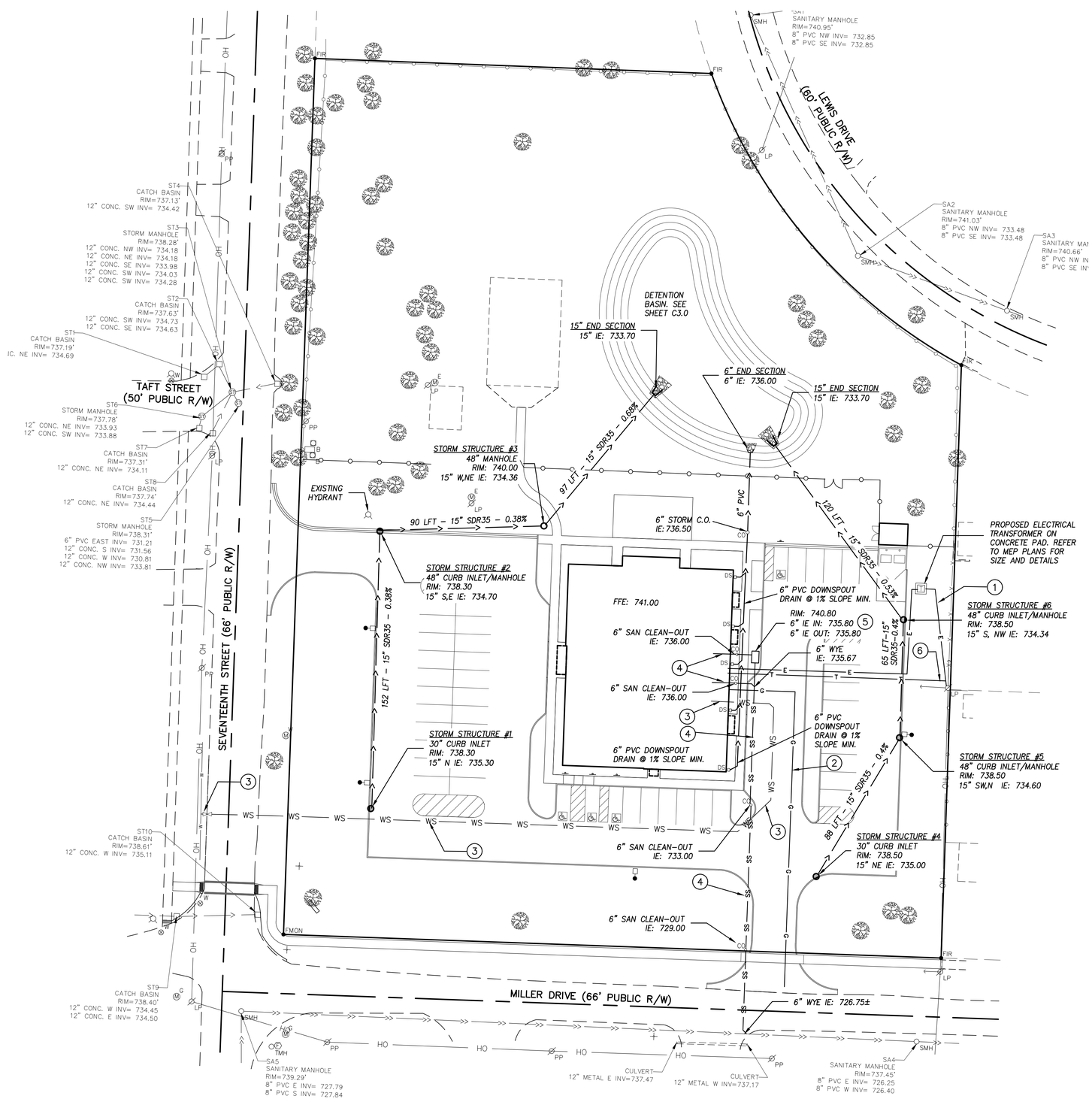

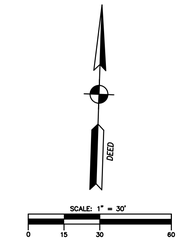

PROPOSED UTILITY KEYNOTES

■○ PROPOSED LED AREA LUMINAIRE MOUNTED ON 20' POLE–SEE LIGHTING PLAN SHEET C6.0

1. PROPOSED ELECTRIC SERVICE –INSTALLED BY THE UTILITY COMPANY. CONTRACTOR TO INSTALL CONDUIT FROM NEAREST SERVICE CONNECTION POINT TO TRANSFORMER. COORDINATE WITH UTILITY PROVIDER FOR CONNECTION POINT. SEE ARCHITECTURAL PLANS FOR ELECTRICAL SCHEDULES AND DETAILS.
2. PROPOSED GAS SERVICE: UTILITY PROVIDER TO INSTALL SERVICE FROM NEAREST EXISTING GAS MAIN. CONNECTION TO GAS METER BY UTILITY PROVIDER. VERIFY CONNECTION POINT WITH MEP PLANS.
3. PROPOSED 2" TEE AND VALVE AND 2" DOMESTIC WATER SERVICE TYPE K COPPER. VERIFY CONNECTION POINT AT BUILDING WITH MEP PLANS.
4. PROPOSED 6" SDR35 SANITARY SERVICE LEAD. INSTALL AT 1% MINIMUM SLOPE AND TO CITY OF NILES GENERAL CONSTRUCTION SPECIFICATIONS. VERIFY UTILITY CONNECTION LOCATION AND ELEVATIONS AT BUILDING WITH ARCHITECTURAL AND PLUMBING PLANS.
5. GREASE TRAP
6. PROPOSED TELECOMMUNICATION SERVICE. INSTALLED FROM NEAREST CONNECTION POINT BY UTILITY PROVIDER.

PROPOSED UTILITY LEGEND

—> ——> —	PROPOSED STORM
——— T ———	PROPOSED U.G. TELECOMMUNICATION SERVICE
——— SS ———	PROPOSED 6" SANITARY SERVICE LATERAL
——— WS ———	PROPOSED WATER SERVICE
——— E ———	PROPOSED U.G. PRIMARY ELECTRIC SERVICE
——— G ———	PROPOSED GAS SERVICE
◎	DRAINAGE STRUCTURE
◎	STORM MANHOLE
C.O. ○	CLEANOUT
⋈	WATER VALVE
DS ○	DOWNSPOUT

NOTES:

1. SANITARY AND WATER UTILITIES TO BE INSTALLED PER NILES CHARTER TOWNSHIP STANDARDS AND SPECIFICATIONS AND DETAILS.
2. SANITARY AND WATER CONNECTIONS IN MILLER DRIVE AND 17TH STREET TO HAVE OPEN CUT THROUGH THE STREET AND PERMIT IS REQUIRED FROM BERRIEN COUNTY ROAD DEPARTMENT.
3. CONTRACTOR IS TO SECURE ALL PERMITS REQUIRED FOR WORK INSIDE THE 17TH STREET AND MILLER DRIVE R.O.W. AND TO COORDINATE WITH THE AUTHORITY HAVING JURISDICTION.
4. REFER TO ARCHITECTURAL / MECHANICAL DRAWINGS FOR LOCATION OF SANITARY OUTLETS FROM BUILDING.
5. BUILDING DOWNSPOUTS TO BE PIPED TO DETENTION BASIN WITH 6" DIA SCH40 SOLID PVC PIPE AT 1% SLOPE MINIMUM.

1	FENCE/DETENTON BASIN/PATIO LANDSCAPE	PHW	7–19–23

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SALVATION ARMY-NILES FACILITY
THE SALVATION ARMY
1707 MILLER DRIVE
NILES MI 49120

SHEET TITLE:
UTILITY PLAN

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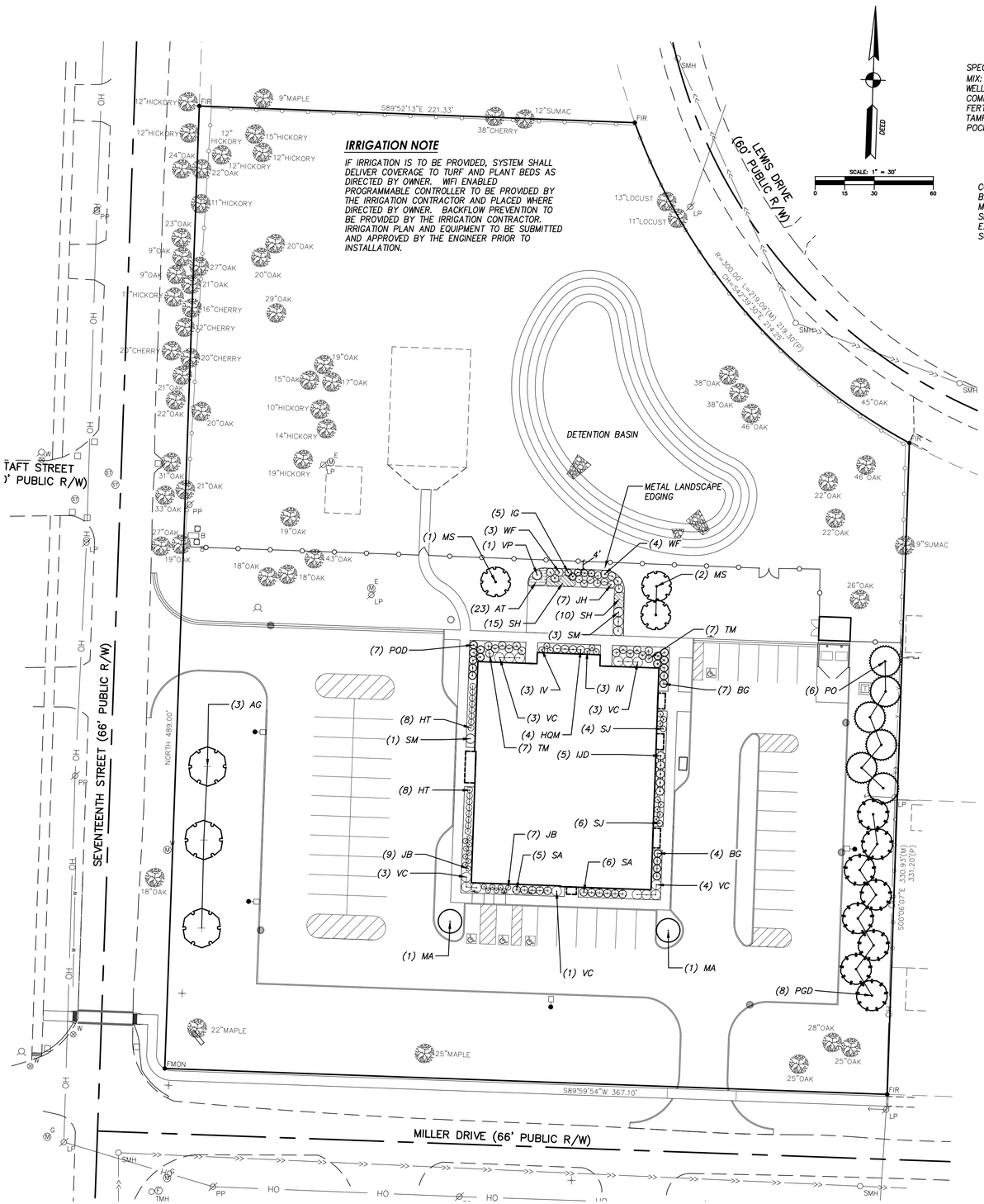
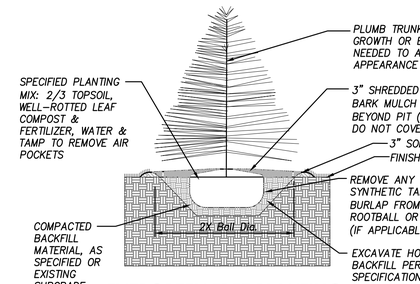
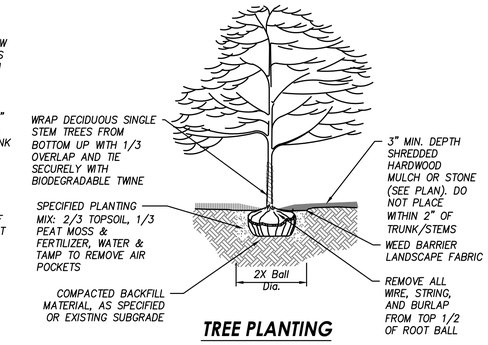
SIGNATURE:
DATE: 07/31/2023
SCALE: HORZ: 1" = 30' VERT:
ACI JOB # 22-0578
SHEET NO. C4.0





EVERGREEN TREE PLANTING

(NOT TO SCALE)



TREE PLANTING

PLANT SCHEDULE

TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER
AG	3	Acer ginnala	Amur Maple	1.5" CAL	B&B
MS	3	Magnolia stellata 'Royal Star'	Royal Star Magnolia	1.5" CAL	B&B
MA	2	Malus x 'Jarmin'	Marilee® Crabapple	2" CAL	B&B

EVERGREEN TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER
PGD	8	Picea glauca 'Densata'	Black Hills White Spruce	5'–6' HT	B&B
PO	6	Picea omorika	Serbian Spruce	5'–6' HT	B&B

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING
BG	11	Buxus x 'Green Gem'	Green Gem Boxwood	15" Ht.	Pot	48" o.c.
HQM	4	Hydrangea quercifolia 'Munchkin'	Oakleaf Hydrangea	24" Ht	Pot	48" o.c.
HT	16	Hypericum kalmianum 'SMHKBF'	Blues Festival® St. Johnswort	15" Ht.	Pot	36" o.c.
IG	5	Ilex glabra 'Shamrock'	Shamrock Inkberry Holly	18" Ht	Pot	48" o.c.
IJD	5	Ilex verticillata 'Jim Dandy'	Jim Dandy Winterberry	24" Ht	Pot	60" o.c.
IV	6	Itea virginica 'Sprich'	Little Henry® Sweetspire	12" Ht.	Pot	36" o.c.
JH	7	Juniperus horizontalis 'Blue Chip'	Blue Chip Creeping Juniper	18" Sp.	Pot	48" o.c.
JB	16	Juniperus squamata 'Blue Star'	Blue Star Juniper	15" Ht.	Pot	36" o.c.
POD	7	Physocarpus opulifolius 'Donna May'	Little Devil™ Dwarf Ninebark	18" Ht	Pot	48" o.c.
SJ	10	Spiraea japonica 'SMNSJMFP'	Double Play® Pink Spirea	15" Ht.	Pot	36" o.c.
SA	11	Spiraea x bumalda 'Anthony Waterer'	Anthony Waterer Spirea	18" Ht	Pot	48" o.c.
SM	4	Syringa meyeri 'Palibin'	Dwarf Korean Lilac	24" Ht	Pot	60" o.c.
TM	14	Taxus x media 'Everlow'	Everlow Anglo–Japanese Yew	3 Gal	Pot	48" o.c.
VC	14	Viburnum carlesii 'Spice Baby'	Korean Spice Viburnum	24" Ht	Pot	60" o.c.
VP	1	Viburnum plicatum 'Newzam'	Newport™ Japanese Snowball	24" Ht	Pot	60" o.c.
WF	7	Weigela florida 'Alexandra'	Wine & Roses® Weigela	18" Ht	Pot	48" o.c.

ORNAMENTAL GRASSES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING
SH	25	Sporobolus heterolepis 'Tara'	Tara Prairie Dropseed	1 Gal	Pot	24" o.c.

PERENNIALS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING
AT	23	Asclepias tuberosa	Butterfly Milkweed	1 Gal	Pot	18" o.c.

LANDSCAPE NOTES

1. LOCATE ALL UTILITIES PRIOR TO BEGINNING WORK. UTILITIES SHOWN WERE LOCATED BY FIELD SURVEY, BUT THEY MAY NOT INDICATE ALL UNDERGROUND IMPROVEMENTS.
2. EXAMINE EXISTING CONDITIONS AND VERIFY CONDITIONS ARE ACCEPTABLE FOR REQUIRED WORK. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES WITH INFORMATION SHOWN ON PLANS PRIOR TO BEGINNING WORK.
3. PROTECT ALL EXISTING PAVING, STRUCTURES, UTILITIES, AND PLANT MATERIAL INDICATED TO REMAIN. CONTRACTOR RESPONSIBLE FOR ANY DAMAGE TO EXISTING FEATURES AT NO EXPENSE TO THE OWNER.
4. CONTRACTOR RESPONSIBLE FOR REMOVAL OF ANY EXISTING GRASS, WEEDS, OR SCRUB GROWTH WITHIN LIMITS OF PLANT BED EDGE OR WITHIN 5' DIAMETER CIRCLE AROUND BASE OF EACH TREE.
5. PLANTS AND OTHER MATERIALS ARE QUANTIFIED AND SUMMARIZED FOR THE CONVENIENCE OF THE OWNER AND JURISDICTIONAL AGENCIES ONLY. CONFIRM AND INSTALL SUFFICIENT QUANTITIES TO COMPLETE THE WORK AS DRAWN ON THE PLANS. NO ADDITIONAL PAYMENTS WILL BE MADE FOR MATERIALS REQUIRED TO COMPLETE THE WORK AS DRAWN. CONTRACTOR RESPONSIBLE FOR VERIFYING ALL QUANTITIES.
6. ALL PROPOSED PLANT SUBSTITUTIONS MUST BE APPROVED BY LANDSCAPE ARCHITECT.
7. ALL PLANT MATERIAL SHALL BE WARRANTIED FOR ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE.
8. PLANTS SHALL CONFIRM TO THE MINIMUM MEASUREMENTS LISTED ON THE PLANT LIST
9. ALL PLANT MATERIAL SHALL COMPLY WITH ALL RECOMMENDATIONS AND REQUIREMENTS OF ANSI Z60.1–2004 "AMERICAN STANDARD FOR NURSERY STOCK." PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS STOCK GROWN WITH GOOD HORTICULTURAL PRACTICE UNDER CLIMACTIC CONDITIONS SIMILAR TO THOSE OF THE PROJECT SITE, AND INSTALLED IN ACCORDANCE WITH METHODS ESTABLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
10. ALL PLANT MATERIAL MUST BE TAGGED BY THE NURSERY OF ORIGIN FOR PROPER IDENTIFICATION IN THE FIELD. TAGS ARE ONLY TO BE REMOVED AFTER ACCEPTANCE AND INSPECTION BY LANDSCAPE ARCHITECT.
11. ALL SHRUB BEDS SHALL BE INSTALLED WITH 4" DEPTH OF 2–3" WASHED RIVER ROCK AND WEED BARRIER FABRIC BELOW.
12. TREES OUTSIDE OF BED LINES SHALL BE INSTALLED WITH 3" DEPTH BARK MULCH, FREE OF FOREIGN MATTER. WITH A 5' DIAMETER MULCH RING. MULCH SHALL NOT BE PLACED WITHIN 3" OF TRUNKS.
13. FINE GRADE TOPSOIL TO ELIMINATE UNEVEN AREAS AND REMOVE DEBRIS, ROOTS, BRANCHES, AND STONES IN EXCESS OF 1 INCH SIZE, AND ENSURE POSITIVE DRAINAGE IS RETAINED AWAY FROM BUILDINGS DURING LANDSCAPE CONSTRUCTION ACTIVITIES.
14. SEED ALL DISTURBED TURF AREAS AS INDICATED IN THE SPECIFICATIONS.
15. METAL LANDSCAPE EDGING TO BE $\frac{1}{8}$" x 4" ALUMINUM, MILL FINISH
16. CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL IN ALL DISTURBED OR SEEDED AREAS.
17. CLEAN ALL SURFACES OF SOIL, MULCH, AND LANDSCAPE DEBRIS AFTER WORK IS COMPLETE.
18. COORDINATE SCHEDULE AND INSTALLATION OF LANDSCAPE WITH IRRIGATION SYSTEM INSTALLATION (IF INCLUDED). ANY IRRIGATION TRENCHING POST–LANDSCAPE INSTALLATION IS TO BE REPAIRED TO FINAL LANDSCAPE CONDITION.

1	FENCE/DETENTON BASIN/PATIO LANDSCAPE	PHW	7–19–23

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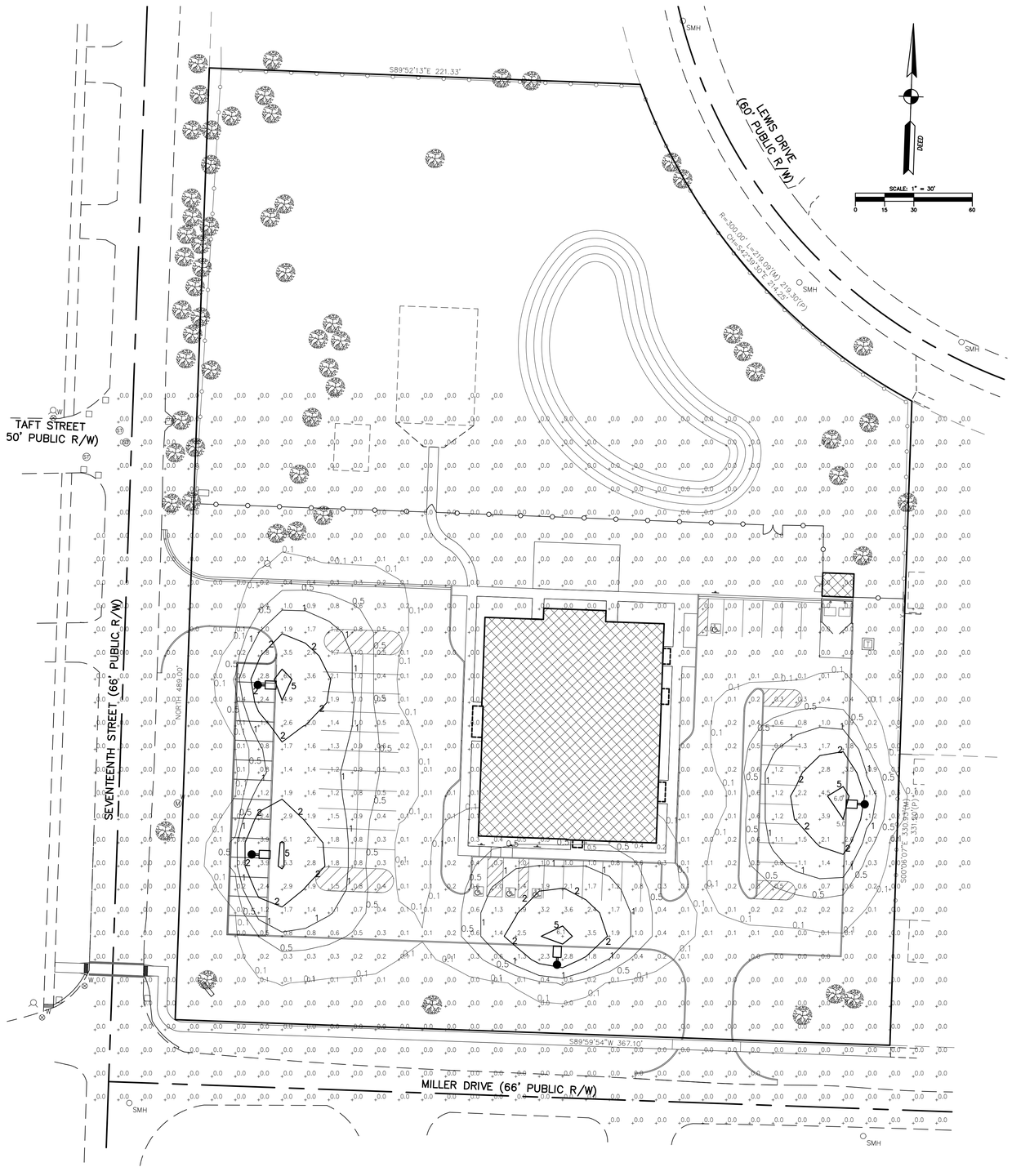
PROJECT:
SALVATION ARMY-NILES FACILITY
THE SALVATION ARMY
1707 MILLER DRIVE
NILES MI 49120

SHEET TITLE:
LANDSCAPE PLAN

DRAWN BY: PHW
DESIGNED BY: PHW
PM REVIEW: ARD
QA/QC REVIEW: RAD
DATE: JULY 31, 2023
SEAL: JEFFREY D. SCHAFFER REGISTERED PE11300116 STATE OF INDIANA PROFESSIONAL ENGINEER
SIGNATURE:
DATE: 07/31/2023
SCALE: HORZ: 1" = 30' VERT:
ACI JOB #: 22-0578
SHEET NO.: C5.0



RSX1 LED
Area Luminaire

Buy American

Catalog Number

Notes

Type

Hit the tab key or mouse over the page to see all interactive elements.

Specifications

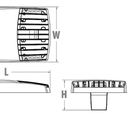
EPA (ft²@90°): 0.57 ft² (0.05 m²)

Length: 21.8" (55.4 cm) (SPA mount)

Width: 13.3" (33.8 cm)

Height: 3.0" (7.6 cm) Main Body; 7.2" (18.4 cm) Arm

Weight (SPA mount): 22.0 lbs (10.0 kg)



Introduction

The new RSX LED Area family delivers maximum value by providing significant energy savings, long life and outstanding photometric performance at an affordable price. The RSX1 delivers 7,000 to 17,000 lumens allowing it to replace 70W to 400W HID luminaires.

The RSX features an integral universal mounting mechanism that allows the luminaire to be mounted on most existing drill hole patterns. This "no-drill" solution provides significant labor savings. An easy-access door on the bottom of mounting arm allows for wiring without opening the electrical compartment. A mast arm adaptor, adjustable integral slipfitter and other mounting configurations are available.

Ordering Information

EXAMPLE: RSX1 LED P4 40K R3 MVOLT SPA DDBXD

RSX1 LED

Series	Performance Package	Color Temperature	Distribution	Voltage	Mounting
RSX1 LED	P1 P2 P3 P4	30K 3000K 40K 4000K 50K 5000K	R2 Type 2 Wide R3 Type 3 Wide R3S Type 3 Short R4 Type 4 Wide R4S Type 4 Short R5 Type 5 Wide [1] R5S Type 5 Short [1] AFR Automotive Front Row AFRR90 Automotive Front Row Right Rotated AFRL90 Automotive Front Row Left Rotated	MVOLT (120V-277V) [2] HVOLT (347V-480V) [3] XVOLT (277V-480V) [3] **(use specific voltage for options as noted)** 120 [3] 277 [3] 208 [3] 347 [3] 240 [3] 480 [3]	SPA Square pole mounting (3.0" min. SQ pole for 1 at 90°, 3.5" min. SQ pole for 2, 3, 4 at 90°) RPA Round pole mounting (3.2" min. dia. RND pole for 2, 3, 4 at 90°, 3.0" min. dia. RND pole for 1 at 90°, 2 at 180°, 3 at 120°) MA Mast arm adaptor (fits 2-3/8" OD horizontal tenon) IS Adjustable slipfitter (fits 2-3/8" OD tenon) [4] WBA Wall bracket [1] WBASC Wall bracket with surface conduit box AASP Adjustable tilt arm square pole mounting [4] AARP Adjustable tilt arm round pole mounting [4] AAWB Adjustable tilt arm with wall bracket [4] AAWSC Adjustable tilt arm wall bracket and surface conduit box [4]

Options

Shipped Installed

HS	House-side shield [1]
PE	Photocontrol, button style [6,9]
PEX	Photocontrol external threaded, adjustable [5,10]
PER7	Seven-wire twist-lock receptacle only (no controls) [8,11,12,13]
CE34	Conduit entry 3/4" NPT (Qty 2)
SF	Single fuse (120, 277, 347) [3]
DF	Double fuse (208, 240, 480) [3]
SPD20KV	20KV Surge pack (10KV standard)
FAO	Field adjustable output [9,14]
DMG	0-10V dimming extend out back of housing for external control (control ordered separate) [9,13]

Shipped Installed

***Standalone and Networked Sensors/Controls (factory default settings, see table page 9)**

NLTAIR2	nLight AIR generation 2 [7,9,15]
PIRHN	Networked, Bi-Level motion/ambient sensor (for use with NLTAIR2) [15,16,18]
BAA	Buy American(n) Act Compliant

***Note: PIRHN with nLight Air can be used as a standalone or networked solution. Sensor coverage pattern is affected when luminaire is tilted.**

Shipped Separately (requires some field assembly)

EGS	External glare shield [7]
EGFV	External glare full visor (360° around light aperture) [7]
BS	Bird spikes [17]

Finish

DDBXD	Dark Bronze
DBLXD	Black
DNAXD	Natural Aluminum
DWHXD	White
DDBTXD	Textured Dark Bronze
DBLBXD	Textured Black
DNATXD	Textured Natural Aluminum
DWHGXD	Textured White

LITHONIA LIGHTING
COMMERCIAL OUTDOOR

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Lithonia RSX1 Area LED
Rev. 03/01/22
Page 1 of 9

LEGEND

PROPOSED LED EXTERIOR AREA LUMINAIRE LITHONIA RX1 P3 30K R4 EGF. 20' MOUNTING HEIGHT.

NOTES

1. *CONTRACTOR TO INSTALL LIGHT FIXTURES, POLES AND BASES ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND DETAILS.*
2. *COLOR OF FIXTURES AND POLES TO BE CHOSEN BY OWNER*

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PROJECT:
SALVATION ARMY-NILES FACILITY
THE SALVATION ARMY
1707 MILLER DRIVE
NILES MI 49120

SHEET TITLE: LIGHTING PLAN

DRAWN BY: PHW
DESIGNED BY: PHW
PM REVIEW: ARD
QA/QC REVIEW: RAD
DATE: JULY 31, 2023
SEAL: JEFFREY D. SCHAFER REGISTERED PE11300116 STATE OF INDIANA PROFESSIONAL ENGINEER
SIGNATURE:
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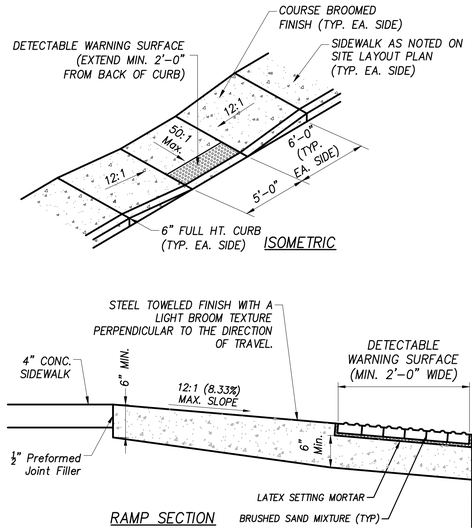
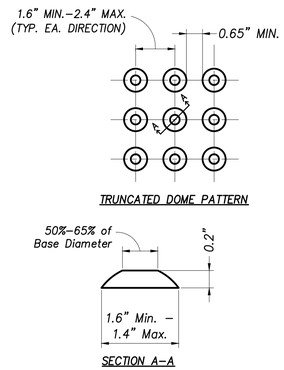
SCALE: HORZ: 1" = 30' VERT:
ACI JOB #: 22-0578
SHEET NO. C6.0



BARRIER FREE CURB RAMP TYPICAL DETAILS

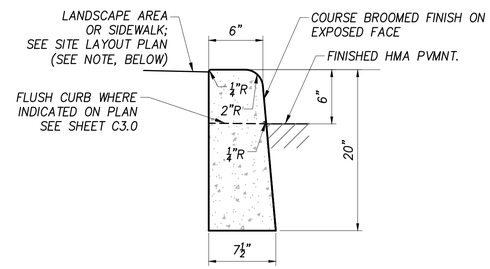
(NOT TO SCALE)



NOTES

1. DETECTABLE WARNING SURFACE (DWS) SHALL CONSIST OF TRUNCATED DOMES AND SHALL BE ALIGNED IN A SQUARE PATTERN.
2. DWS SHALL CONTRAST VISUALLY WITH ADJACENT SURFACES.

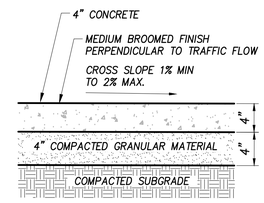
DETECTABLE WARNING SURFACE DETAILS & NOTES



NOTE:
WHERE SIDEWALK IS LOCATED BEHIND CURB, INSTALL 1/2" PREFORMED EXPANSION JOINT BETWEEN CURB & WALK.

STANDARD CONCRETE CURB TYPICAL DETAIL

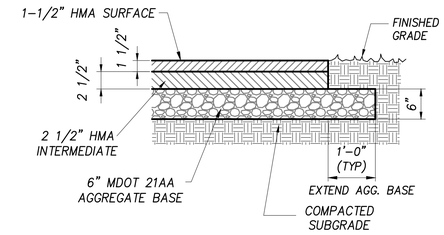
(NOT TO SCALE)



NOTE:
WHERE SIDEWALK IS LOCATED ADJACENT TO THE BUILDING, INSTALL 1/2" PREFORMED EXPANSION JOINT BETWEEN FOUNDATION & WALK

CONCRETE WALK SECTION

(NOT TO SCALE)



ASPHALT PAVING STANDARD DUTY SECTION

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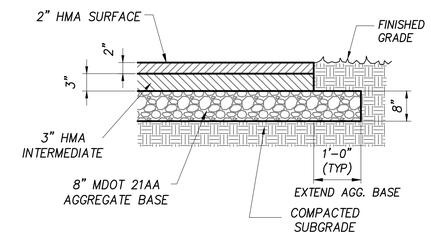

ASPHALT PAVING HEAVY DUTY SECTION (ROAD R.O.W.)

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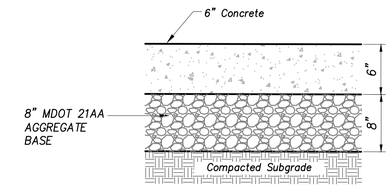
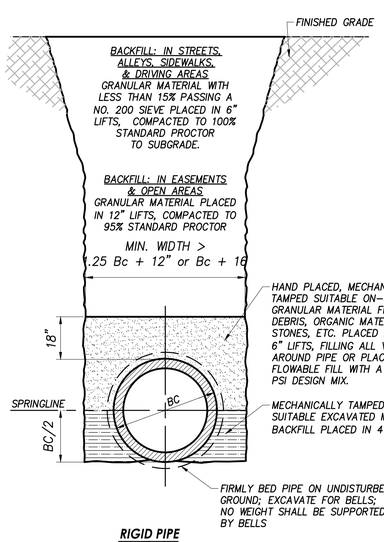


6" CONCRETE PAVEMENT SECTION

(NOT TO SCALE)



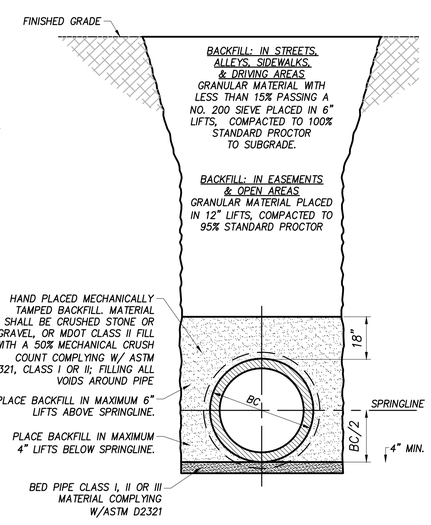
RIGID PIPE

NOTES

1. D = INTERIOR PIPE DIAMETER; BC = EXTERIOR PIPE DIAMETER
2. PVC SANITARY SEWER SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321.
3. DO NOT DISPLACE PIPE DURING PLACEMENT AND COMPACTION OF BACKFILL.
4. THE LOWER 90° ARC OF THE BARREL OF THE PIPE SHOULD BE IN FIRM CONTACT WITH THE UNDISTURBED EARTH. THE BEDDING SHALL BE CONTINUOUS AN AND UNIFORM FOR THE LENGTH OF THE PIPE.
5. SMALL EXCAVATIONS SHOULD BE MADE FOR THE PIPE BELLS AND SHOULD BE NO LARGER THAT NECESSARY TO CLEAR THE BELL.

ALLOWABLE MAXIMUM TRENCH WIDTH AT TOP OF PIPE	
D	"W"
6"	27"
8"	27"
10"	30"
12"	33"
15"	36"
18"	39"
21"	42"
24"	48"
27"	51"
30"	57"
36"	68"
42"	75"
48"	82"

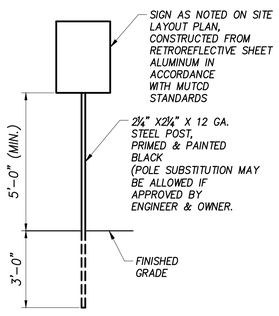
AN ALLOWABLE "W" OF 30" WILL BE PERMITTED WHERE DEPTH OF CUT EXCEEDS 12 FT. AND EXTRA STRENGTH PIPE IS SPECIFIED.



FLEXIBLE PIPE

PIPE BEDDING DETAIL

(NOT TO SCALE)



SIGN & POST TYPICAL DETAIL

(NOT TO SCALE)

CONSTRUCTION NOTES

1. GENERAL
   A. EXCEPT WHERE OTHERWISE INDICATED ON THESE PLANS OR IN THE PROPOSAL AND SUPPLEMENTAL SPECIFICATIONS CONTAINED THEREIN, ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE 2020 MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION.
   B. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND MIX DESIGNS TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ORDERING ANY MATERIAL.
   C. CURE CONCRETE IN ACCORDANCE WITH CURRENT MDOT AND LOCAL SPECIFICATIONS.
1. SIDEWALK
   A. EXPANSION JOINTS SHALL BE 1/2" WIDE WITH ELASTOMERIC FILLER, EXTENDING THE FULL DEPTH OF THE CONCRETE LOCATED AT A MAXIMUM SPACING OF 40'-0" AND WHERE SIDEWALK ABUTS CONCRETE DRIVEWAYS, CURB OR OTHER ADJACENT STRUCTURES.
   B. CONTRACTION JOINTS SHALL BE SCORED 1" DEEP AND SPACED AT 5 FEET.
   C. FORMED JOINTS SHALL BE FINISHED WITH A TOOL HAVING A 1/4" RADIUS.
   D. FINISH: STEEL TOWELED WITH A MEDIUM BROOM TEXTURE PERPENDICULAR TO THE DIRECTION OF TRAVEL.
3. CONCRETE PAVEMENT
   A. APPLY CURING COMPOUND AND PROVIDE BROOM FINISH PERPENDICULAR TO DIRECTION OF TRAFFIC FLOW.
   B. JOINTS SHALL BE IN ACCORDANCE WITH ACI 330 AND SHALL NOT EXCEED 12' FOR A 6" THICK SLAB AND 15' FOR AN 10" THICK SLAB.
   C. SAWCUT JOINTS 2" DEEP AND INSTALL SILICON JOINT SEALANT.

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PROJECT:
SALVATION ARMY-NILES FACILITY
THE SALVATION ARMY
1707 MILLER DRIVE
NILES MI 49120

SHEET TITLE:
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DRAWN BY: PHW
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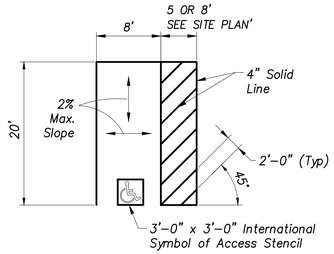
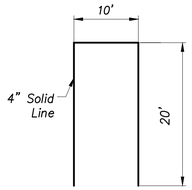


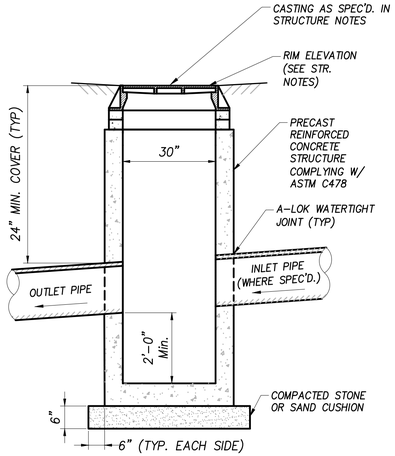
ADA ACCESSIBLE SPACE



STANDARD SPACE

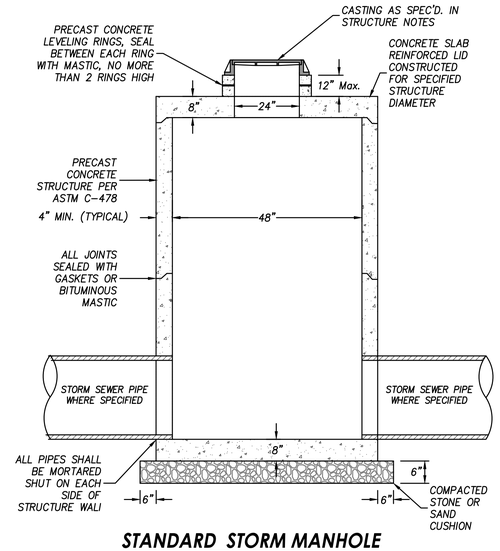
PAVEMENT MARKINGS: PARKING SPACE TYPICAL DETAILS

(Not To Scale)



30" CATCH BASIN TYPICAL DETAIL

(NOT TO SCALE)



STANDARD STORM MANHOLE

(NOT TO SCALE)

WATER DISTRIBUTION CONSTRUCTION NOTES

1. WATER MAIN, DOMESTIC AND FIRE SERVICES, MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION STANDARDS OF THE JURISDICTIONAL MUNICIPALITY, AWWA STANDARDS, AND THESE CONSTRUCTION DRAWINGS.

2. WATER SERVICES (LESS THAN 4-INCH DIAMETER) SHALL BE TYPE 'K' COPPER.

3. ALL GATE VALVES SHALL BE RESILIENT SEALED AND MEET OR EXCEED AWWA C509 (STANDARD FOR RESILIENT WEDGE SEATED VALVES) AND THE JURISDICTIONAL MUNICIPALITY STANDARDS. VALVES SHALL BE RATED FOR 200 PSI WORKING WATER PRESSURE WITH MECHANICAL JOINTS AND OPEN LEFT (COUNTERCLOCKWISE). VALVES SHALL BE ANCHORED WITH RESTRAINED JOINTS AND THRUST BLOCKING. VALVES SHALL BE INSTALLED WITH STANDARD CAST IRON VALVE BOXES, PLUMB OVER THE WRENCH NUT OF THE VALVE AND TO FINISHED GRADE, AND HAVE A ROUND PLUG-TYPE COVER EMBOSSED WITH "WATER".

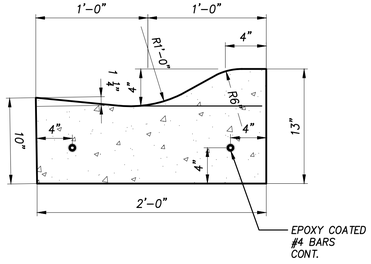
4. RETAINER GLANDS SHALL BE PROVIDED ON ALL VALVES AND FITTINGS IN ACCORDANCE WITH THE JURISDICTIONAL MUNICIPALITY STANDARDS.

5. WATER SERVICE SHALL HAVE A MINIMUM COVER OF 5 FEET.

6. WATER PIPE SHALL BE BACKFILLED IN ACCORDANCE WITH THE REQUIREMENTS AS SET FORTH IN THE PLANS FOR RIGID PIPE BENEATH PAVEMENT.

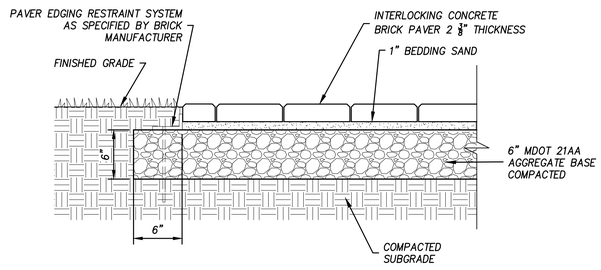
7. MAINTAIN A MINIMUM HORIZONTAL CLEAR SEPARATION 10 FEET BETWEEN WATER AND SEWER PIPES. WHERE WATER AND SEWER PIPES CROSS, MAINTAIN A MINIMUM VERTICAL CLEAR SEPARATION OF 18 INCHES. IF SEPARATION CANNOT BE MET, THE SEWER PIPE SHALL BE CONSTRUCTED OF WATER GRADE PIPE MEETING AWWA STANDARDS FOR A DISTANCE OF 10 FEET EACH SIDE OF THE WATER PIPE. AT CROSSINGS, ONE FULL LENGTH OF WATER PIPE SHALL BE INSTALLED SO THAT THE JOINTS WILL BE AS FAR FROM THE SEWER PIPE AS POSSIBLE.

8. ALL TEES, PLUGS, VALVES, DEAD ENDS, REDUCERS, AND BENDS SHALL BE INSTALLED WITH A RESTRAINED JOINT IN ACCORDANCE WITH JURISDICTIONAL MUNICIPALITY STANDARDS.



4" ROLLOVER CURB & GUTTER TYPICAL DETAIL

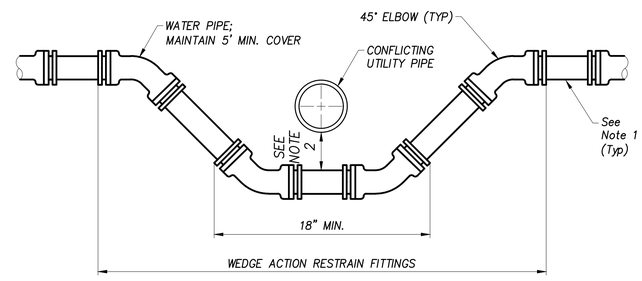
(Not To Scale)



1. INSTALL BRICK PAVERS ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
2. COLOR TO BE CHOSEN BY OWNER.

INTERLOCKING CONCRETE BRICK SECTION DETAIL

(Not To Scale)



NOTES
1. AT ENDS OF CROSSOVER, MINIMUM RESTRAINED JOINT LENGTH REQUIRED FOR THE GIVEN PIPE SIZE, DEPTH, MATERIAL, SOIL CONDITION, ETC. WITH 1.5:1 SAFETY FACTOR AND 150 PSI TEST PRESSURE.
2. 18" MIN. FOR STORM & SANITARY SEWERS. 6" MIN. FOR OTHER UTILTIES.
3. PROVIDE ADEQUATE PIPE SUPPORT AS NEEDED.

WATER PIPE - UTILITY PIPE CROSSING TYPICAL DETAIL

(NOT TO SCALE)

SANITARY SEWER CONSTRUCTION NOTES

1. ALL SEWER MAIN MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH NILES TOWNSHIP CONSTRUCTION STANDARDS AND SPECIFICATIONS.

2. SANITARY SEWER FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF ASTM D3034 WITH A MINIMUM WALL THICKNESS OF SDR 35, AS DEFINED IN 7.4.1, AND MOLDED IN ONE PIECE WITH ELASTOMETRIC JOINTS AND MINIMUM SOCKET DEPTHS AS SPECIFIED IN SECTIONS 6.2 AND 7.3.2. PVC MATERIAL SHALL HAVE A CELL CLASSIFICATION OF 12454-B AND C AS DEFINED IN ASTM D1784.

3. CONTRACTOR SHALL SUPPLY AS-BUILT RECORD DRAWINGS TO THE OWNER AND ENGINEER UPON COMPLETION OF WORK.

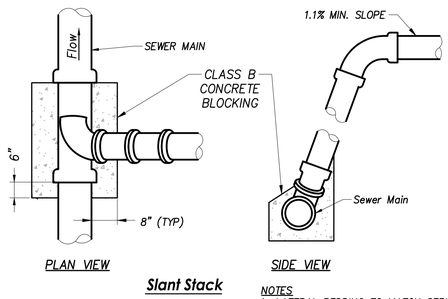
STORM SEWER CONSTRUCTION NOTES

1. CONTRACTOR SHALL SUPPLY AS-BUILT RECORD DRAWINGS TO THE OWNER AND ENGINEER UPON COMPLETION OF WORK.

2. CASTINGS
   A. SOLID CASTING: NEENAH R-1642.
   B. CURB INLET CASTING: NEENAH R-3010

3. STORM SEWER OPEN GRATE CASTINGS SHALL BE STAMPED WITH A FISH IMAGE AND THE MESSAGE: "DUMP NO WASTE - DRAINS TO WATERWAYS"

4. STORM SEWER PIPE
   PIPE TO BE AS NOTED ON PLAN.

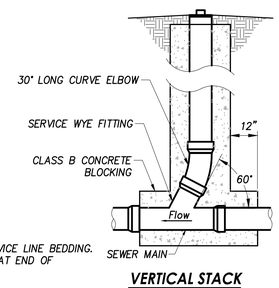


PLAN VIEW

SIDE VIEW

Slant Stack

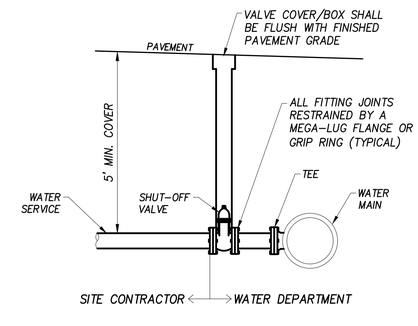
NOTES
1. LATERAL BEDDING TO MATCH SERVICE LINE BEDDING.
2. PLACE MAGNETIC TAPE LOCATOR AT END OF LATERAL.



VERTICAL STACK

SANITARY SEWER LATERAL CONNECTION DETAIL

(NOT TO SCALE)



WATER SERVICE CONNECTION TYPICAL DETAIL

(NOT TO SCALE)

ABONMARCHE
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Grand Haven
Hobart
Lafayette
Portage
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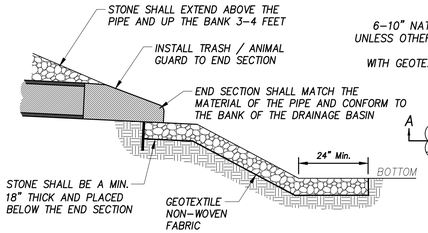
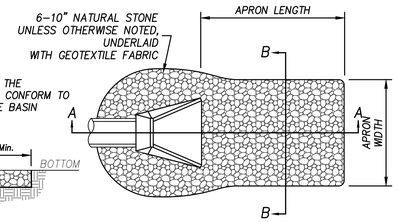
PROJECT:
SALVATION ARMY-NILES FACILITY
THE SALVATION ARMY
1707 MILLER DRIVE
NILES MI 49120

SHEET TITLE:
CONSTRUCTION DETAILS

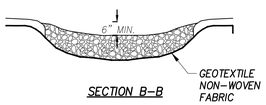
DRAWN BY: PHW
DESIGNED BY:
PM REVIEW: ARD
QA/QC REVIEW: RAD
DATE: JULY 31, 2023
SEAL: JEFFREY D. SCHAFFER REGISTERED PE11300116 STATE OF INDIANA PROFESSIONAL ENGINEER
SIGNATURE:
DATE: 07/31/2023
SCALE:
HORZ: AS NOTED
VERT:
ACI JOB #
22-0578
SHEET NO.
C7.1



SECTION A–A



PLAN VIEW



SECTION B–B

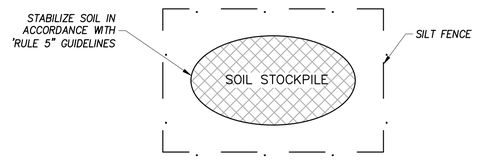
SIZING OF FLOW DISSIPATERS AT PIPE OUTLETS			
PIPE SIZE	AVERAGE STONE DIA.	APRON WIDTH	APRON LENGTH
8 in.	3 in.	6 ft.	7 ft.
12 in.	5 in.	6 ft.	12 ft.
18 in.	8 in.	6 ft.	18 ft.
24 in.	10 in.	8 ft.	22 ft.
30 in.	12 in.	10 ft.	28 ft.
36 in.	14 in.	12 ft.	32 ft.

MAINTENANCE GUIDELINES

1. INSPECTION SHOULD OCCUR AT LEAST ONCE A WEEK AND FOLLOWING EACH ½" OR MORE RAIN EVENT.
2. INSPECT FOR STONE DISPLACEMENT; REPLACE STONES ENSURING PLACEMENT AT FINISHED GRADE.
3. CHECK FOR EROSION OR SCOURING AROUND SIDES OF THE APRON; REPAIR IMMEDIATELY.
4. CHECK FOR PIPING OR UNDERCUTTING; REPAIR IMMEDIATELY.

STORM END SECTION DETIAL

(NOT TO SCALE)



INSTALLATION

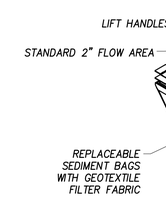
1. STORAGE AREA SHALL BE FREE OF STUMPS, ROCK AND CONSTRUCTION DEBRIS.
2. COVER STOCKPILE WITH VEGETATION AND TARP.
3. SURROUND WITH SEDIMENT BARRIER OR FILTER. SEE "SILT FENCE" DETAIL. IF STRAW BALES ARE UTILIZED, PLACE A MINIMUM OF 10 FEET FROM THE TOE OF SLOPE. EACH BALE SHALL ENTRENCHED A MINIMUM OF 4 INCHES INTO SUBSOIL AND SHALL BE ANCHORED WITH (2) 36–INCH LONG STEEL REBARS OR 2X2 INCH WOOD STAKES DRIVEN THROUGH THE BALE. THE MINIMUM BALE SIZE SHALL BE 14"X18"X36".
4. BACKFILL THE TRENCH WITH SOIL MATERIAL AND COMPACT IT IN PLACE.

MAINTENANCE

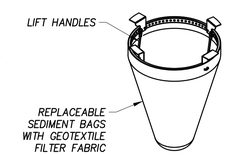
1. INSPECT DAILY.
2. CHECK FOR DAMAGE TO PERIMETER BARRIER; REPAIR IMMEDIATELY.

TEMPORARY SOIL STOCKPILE

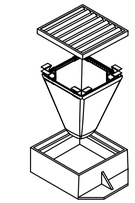
(Not To Scale)



RECTANGULAR FILTER



ROUND FILTER



INSTALLATION DETAIL

INSTALLATION

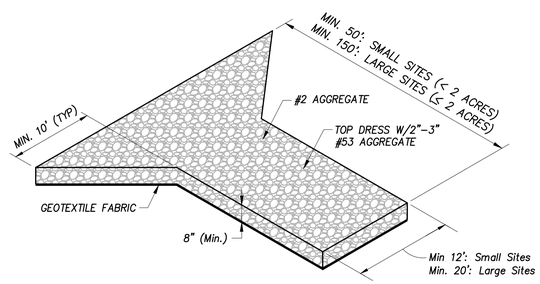
1. PRIOR TO INSTALLATION, CONTRACTOR SHALL SUBMIT BRAND AND MODEL INFORMATION TO OWNER FOR APPROVAL PRIOR TO INSTALLATION. INSTALL PER MANUFACTURER RECOMMENDATIONS.
2. REMOVE GRATE AND CLEAN LEDGE OF THE CASTING FRAME OR DRAINAGE STRUCTURE.
3. DROP FRAME AND SEDIMENT BAG INSERT ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE
4. RE–INSTALL GRATE AND CONFIRM IT IS ELEVATED NO MORE THAN THICKNESS OF INSERT HANGERS.

MAINTENANCE

1. INSPECTION SHOULD OCCUR AT LEAST ONCE A WEEK AND FOLLOWING EACH ½" OR MORE RAIN EVENT.
2. EMPTY THE SEDIMENT BAG IF MORE THAN HALF FILLED WITH SEDIMENT AND DEBRIS.
3. REMOVE THE GRATE, ENGAGE THE LIFTING BARS OR HANDLES AND LIFT FROM THE DRAINAGE STRUCTURE, AND DISPOSE OF ANY SEDIMENT OR DEBRIS IN ACCORDANCE WITH EPA GUIDELINES.
4. REMOVE ANY CAKED ON SILT FROM THE SEDIMENT BAG AND REVERSE FLUSH THE BAG WITH MEDIUM SPRAY FOR OPTIMAL FILTRATION.
5. REPLACE THE BAG IF TORN OR PUNCTURED TO ½" DIAMETER OR GREATER ON THE LOWER HALF OF THE BAG.
6. WHEN THE CONTRIBUTING DRAINAGE AREA WITHIN 50 FEET UPSTREAM OF THE INLET HAS BEEN STABILIZED, REMOVE INSERT (BASKET) AND PROPERLY DISPOSE OF SEDIMENT DEPOSITS.

SEDIMENT BAG TEMPORARY INLET PROTECTION

(NOT TO SCALE)



INSTALLATION

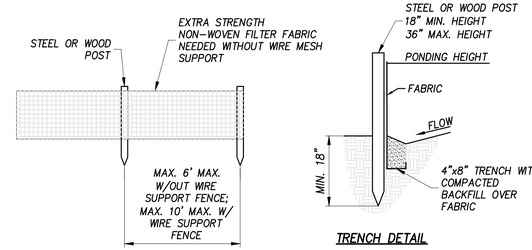
1. REMOVE ALL VEGETATION AND OTHER OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA.
2. GRADE FOUNDATION AND CROWN FOR POSITIVE DRAINAGE. IF THE SLOPE OF THE CONSTRUCTION ENTRANCE IS TOWARD A PUBLIC ROAD AND EXCEEDS TWO PERCENT, CONSTRUCT AN 8–INCH HIGH DIVERSION RIDGE WITH A RATIO OF 3–TO–1 SIDE SLOPES ACROSS THE FOUNDATION AREA ABOUT 15 FEET FROM THE ENTRANCE TO DIVERT RUNOFF AWAY FROM THE ROAD.
3. INSTALL A CULVERT PIPE UNDER THE PAD IF NEEDED TO MAINTAIN PROPER PUBLIC ROAD DRAINAGE.
4. IF WET CONDITIONS ARE ANTICIPATED, PLACE GEOTEXTILE FABRIC ON THE GRADED FOUNDATION TO IMPROVE STABILITY.
5. PLACE SPECIFIED AGGREGATE TO THE DIMENSIONS SHOWN LEAVINCG THE SURFACE SMOOTH AND SLOPED FOR DRAINAGE.
6. TOP–DRESS THE FIRST 50 FEET ADJACENT TO THE PUBLIC ROADWAY WITH 2–3 INCHES OF WASHED #53 AGGREGATE [OPTIONAL, USED PRIMARILY WHERE THE PURPOSE OF THE PAD IS KEEP SOIL FROM ADHERING TO VEHICLE TIRES]
7. WHERE POSSIBLE, DIVERT ALL STORM WATER RUNOFF AND DRAINAGE FROM THE PAD TO A SEDIMENT TRAP OR BASIN.

MAINTENANCE

1. INSPECT DAILY.
2. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
3. TOP DRESS WITH CLEAN AGGREGATE AS NEEDED.
4. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS.
5. FLUSHING SHOULD ONLY BE USED IF THE WATER CAN BE CONVEYED INTO A SEDIMENT TRAP.

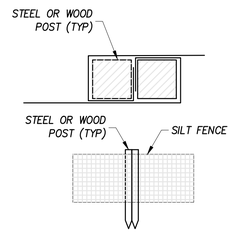
TEMPORARY CONSTRUCTION ENTRANCE

(NOT TO SCALE)



ELEVATION

TRENCH DETAIL



FENCE JOINING DETAIL

INSTALLATION

1. LAY OUT THE LOCATION OF THE FENCE SO THAT IT IS PARALLEL TO THE CONTOUR OF THE SLOPE AND AT LEAST 10 FEET BEYOND THE TOE OF THE SLOPE TO PROVIDE A SEDIMENT STORAGE AREA. TURN THE ENDS OF THE FENCE UP SLOPE SUCH THAT THE POINT OF CONTACT BETWEEN THE GROUND AND THE BOTTOM OF THE FENCE END TERMINATES AT A HIGHER ELEVATION THAN THE TOP OF THE FENCE AT ITS LOWEST POINT.
2. EXCAVATE AN 8–INCH DEEP BY 4–INCH WIDE TRENCH ALONG THE ENTIRE LENGTH OF THE FENCE. (INSTALLATION BY PLOWING IS ACCEPTABLE)
3. INSTALL SILT FENCE WITH THE FILTER FABRIC LOCATED ON THE UP–SLOPE SIDE OF THE EXCAVATED TRENCH AND THE SUPPORT POSTS ON THE DOWN–SLOPE SIDE OF THE TRENCH.
4. DRIVE THE SUPPORT POSTS AT LEAST 18 INCHES INTO THE GROUND, TIGHTLY STRETCHING THE FABRIC BETWEEN THE POSTS AS EACH IS DRIVEN INTO THE SOIL. A MINIMUM OF 12 INCHES OF THE FILTER FABRIC SHOULD EXTEND INTO THE TRENCH.
5. LAY THE LOWER 4 INCHES OF FABRIC ON THE BOTTOM OF THE TRENCH AND EXTEND IT TOWARD THE UP–SLOPE SIDE OF THE TRENCH.
6. BACKFILL THE TRENCH WITH SOIL MATERIAL AND COMPACT IT IN PLACE.
7. IF THE SILT FENCE IS BEING CONSTRUCTED ONSITE, ATTACH THE FILTER FABRIC TO THE SUPPORT POSTS AND ATTACH WOODEN LATHE TO SECURE THE FABRIC TO THE POSTS. ALLOW FOR AT LEAST 12 INCHES OF FABRIC BELOW GROUND LEVEL. COMPLETE THE SILT FENCE INSTALLATION, FOLLOWING STEPS 1 THROUGH 6 ABOVE.

MAINTENANCE

1. INSPECT WITHIN 24 HOURS OF A HALF–INCH OR GREATER RAIN EVENT AND AT LEAST ONCE EVERY WEEK.
2. IF FENCE FABRIC TEARS OR STARTS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE SECTION IMMEDIATELY IN ACCORDANCE WITH INSTALLATION SPECIFICATIONS ABOVE.
3. REMOVE DEPOSITED SEDIMENT WHEN IT CAUSES FILTER FABRIC TO BULGE OR WHEN IT REACHES 1/2 THE HEIGHT OF THE FENCE AT IT LOWEST POINT.
4. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND SEDIMENT DEPOSITS, GRADE THE SITE TO BLEND WITH THE SURROUNDING AREA AND STABILIZE.

TEMPORARY SILT FENCE

(NOT TO SCALE)

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Grand Haven
Hobart
Lafayette
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South Bend
Southfield
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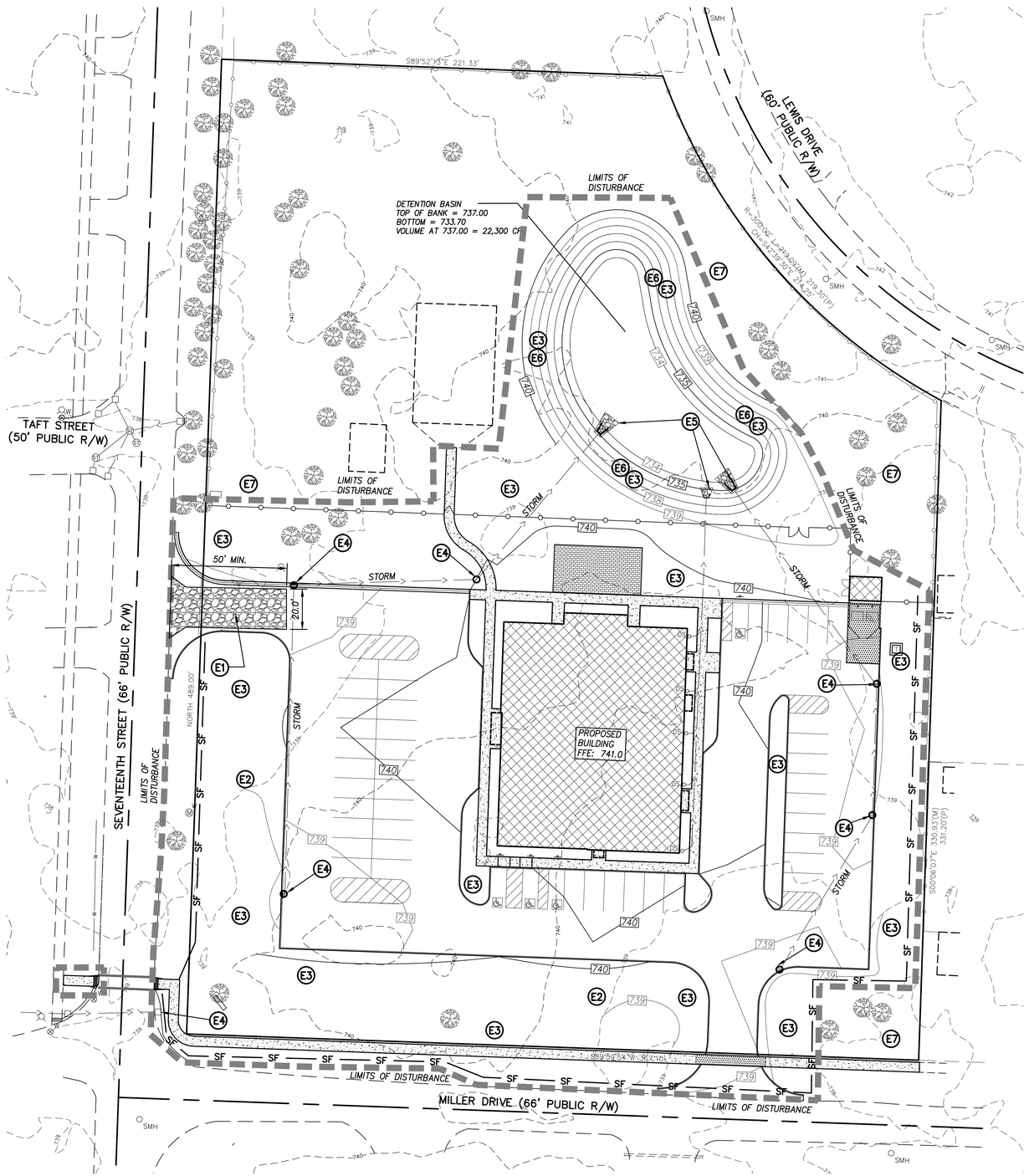
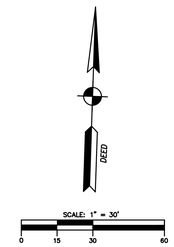
PROJECT:
SALVATION ARMY-NILES FACILITY
THE SALVATION ARMY
1707 MILLER DRIVE
NILES MI 49120

SHEET TITLE:
CONSTRUCTION DETAILS

DRAWN BY: PHW
DESIGNED BY:
PM REVIEW: ARD
QA/QC REVIEW: RAD
DATE: JULY 31, 2023
SEAL: JEFFREY D. SCHAFER REGISTERED PE11300116 STATE OF INDIANA PROFESSIONAL ENGINEER
SIGNATURE:
DATE: 07/31/2023
SCALE:
HORZ: AS NOTED
VERT:
ACI JOB #
22-0578
SHEET NO.
C7.2





LOCATION MAP
NOT TO SCALE

EROSION CONTROL LEGEND

- **E1** TEMPORARY CONSTRUCTION ENTRANCE MINIMUM LENGTH 50'
- **E2** TEMPORARY SOIL STOCKPILE. SEE DETAIL SHEET C7.2
- **E3** STRIP TOPSOIL & VEGETATE DISTURBED AREA W/SEEDING & MULCH; IF DISTURBED AREA REMAINS IDLE FOR MORE THAN 15 DAYS; EROSION CONTROL BLANKET TO BE USED ON AREAS THAT FAIL TO STABILIZE WITH SEED AND MULCH.
- **E4** TEMPORARY INLET PROTECTION SEE DETAIL SHEET C7.2
- **E5** PIPE END SECTION AND RIP-RAP SEE DETAIL SHEET C7.2
- **E6** EROSION BLANKET SLOPE STABILIZATION. SEED AND INSTALL BLANKET ON DETENTION BASIN SIDE SLOPES.
- **E7** EXISTING VEGETATION TO REMAIN
- **SF** SILT FENCE (SEE DETAIL SHEET C7.2)
- LIMITS OF DISTURBANCE TOTAL AREA OF DISTURBANCE = 2.89 ACRES

NOTES:

1. ALL SESC MEASURES SHALL COMPLY WITH THE BERRIEN COUNTY SOIL EROSION AND SEDIMENTATION CONTROL ORDINANCE AND PART 91, SOIL EROSION AND SEDIMENTATION CONTROL PA 451, 1994.
2. EXISTING SOILS: SEE SOIL GEOTECHNICAL REPORT BY WEAVER CONSULTANT GROUP, DATED MAY 18, 2023.
3. INSTALL ALL SESC MEASURES PRIOR TO OR UPON COMMENCEMENT OF THE EARTH CHANGE.
4. CONDUCT INSPECTIONS OF ALL TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROLS WEEKLY AND FOLLOWING RAIN EVENTS TO EVALUATE EFFECTIVENESS OF SESC MEASURES, AND AS DIRECTED BY BERRIEN COUNTY.
5. MAINTAIN TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES IN PROPER WORKING CONDITION FOR THE LIFE OF THE PROJECT UNTIL THE SITE HAS BEEN RESTORED.
6. INSTALL TOPSOIL, SEEDING, FERTILIZER, AND MULCHING/MULCH BLANKETS WITHIN 5 DAYS OF THE COMPLETION OF CONSTRUCTION.
7. NOTIFY BERRIEN COUNTY WHEN PROJECT COMMENCES AND WHEN SITE IS STABILIZED AND READY FOR FINAL INSPECTION.
8. DURING THE ENTIRE CONSTRUCTION PHASE OF THE PROPOSED PROJECT, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE CLEAN-UP OPERATIONS ALONG AND ON THE ROADWAY WHERE DIRT AND/OR DEBRIS HAS BEEN DEPOSITED DUE TO THE CONSTRUCTION ACTIVITIES AND/OR RELATED WORK. AS A MINIMUM, CLEAN-UP WILL BE DONE ON A DAILY BASIS; ADDITIONAL CLEAN-UP WILL BE PERFORMED AS DEEMED NECESSARY BY NILES TOWNSHIP AND BERRIEN COUNTY.
9. CLOSEST LAKE, RIVER, OR STREAM : FRANKLIN PARK DRAIN – 700' WEST AND 650' SOUTHWEST OF SITE ST. JOSEPH RIVER – 1 MILE EAST OF SITE
10. BUILDING DOWNSPOUTS TO BE PIPED TO DETENTION BASIN.

GENERAL CONSTRUCTION ACTIVITY SCHEDULE

	2023				2024							
ANTICIPATED CONSTRUCTION TASKS	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG
CONSTRUCTION ENTRANCE/SILT FENCE INLET PROTECTION		■										
CLEARING/EXCAVATION & GRADING		■										
U.G.UTILITIES/SUBGRADE PREPARATION			■									
BUILDING CONSTRUCTION			■	■	■	■	■	■	■	■	■	■
SITE GRADING/BASE COURSES				■								
ASPHALT / CONCRETE PAVING											■	■
PERMANENT EROSION CONTROL MEASURES												■

1	FENCE/DETENTON BASIN/PATIO LANDSCAPE	PHW	7-19-23

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PROJECT:
SALVATION ARMY-NILES FACILITY
THE SALVATION ARMY
1707 MILLER DRIVE
NILES MI 49120

SHEET TITLE:
SOIL EROSION AND SEDIMENTATION CONTROL PLAN

DRAWN BY: PHW
DESIGNED BY:
PM REVIEW: ARD
QA/QC REVIEW: RAD
DATE: JULY 31, 2023

SEAL: JEFFREY D. SCHAFER REGISTERED PE11300116 STATE OF INDIANA PROFESSIONAL ENGINEER

SIGNATURE:
DATE: 07/31/2023

SCALE:
HORZ: 1" = 30'
VERT:

ACI JOB #
22-0578

SHEET NO.
C8.0

I. DESIGN BASIS

1. BUILDING CODE USED IN THE DESIGN OF THIS STRUCTURE: 2015 MICHIGAN BUILDING CODE.

2. THE EDITIONS REFERENCED IN THE BUILDING CODE LISTED ABOVE SHALL APPLY FOR THE FOLLOWING DESIGN STANDARDS:
   - A. CONCRETE: ACI 318
   - B. STRUCTURAL STEEL: AISC STEEL CONSTRUCTION MANUAL, ASD
   - C. STEEL JOISTS & GIRDERS: SJI AMERICAN NATIONAL STANDARD (ASD)
   - D. COLD-FORMED STEEL: AISI S100
   - E. METAL DECK: SDI MANUALS

3. SOIL CAPACITY (ASSUMED AT BOTTOM OF FOOTING)
   - A. MINIMUM SOIL BEARING PRESSURE = 3,000 PSF
   - B. CONTRACTOR MUST VERIFY THAT THE SOILS CAN SUPPORT THIS PRESSURE.
   - C. SOIL CAPACITIES ARE BASED UPON RECOMMENDATIONS OF GEOTECHNICAL REPORT BY WEAVER CONSULTANTS GROUP DATED MAY 18, 2023.

4. GRAVITY DEAD LOADS
   - A. ROOF = 20 PSF
   - B. ALL OTHER = ACTUAL WEIGHTS

5. GRAVITY LIVE LOADS
   - A. ROOF = 20 PSF

6. WIND LATERAL LIVE LOADS
   - A. ULTIMATE DESIGN WIND SPEED = 115 MPH
   - B. RISK CATEGORY = II
   - C. WIND EXPOSURE = B
   - D. INTERNAL PRESSURE COEFFICIENT, GC_{Pi} = ±0.18
   - E. COMPONENTS/CLADDING WIND PRESSURE
     - ZONE 1 = ±23.8 PSF
     - ZONE 2 = ±39.9 PSF
     - ZONE 3 = ±60.0 PSF
     - ZONE 4 = ±24.8 PSF
     - ZONE 5 = ±31.8 PSF

7. SNOW LOADS
   - A. GROUND SNOW LOAD, P_G = 50 PSF
   - B. SNOW EXPOSURE FACTOR, C_E = 1.0
   - C. SNOW IMPORTANCE FACTOR, I = 1.0
   - D. THERMAL FACTOR, C_t = 1.0
   - E. FLAT ROOF SNOW LOAD, P_f = 35 PSF
   - F. UNBALANCED, SLIDING AND DRIFTS PER ASCE 7-10

8. SEISMIC LATERAL LIVE LOADS
   - A. SEISMIC RISK CATEGORY = II
   - B. SEISMIC DESIGN CATEGORY = B
   - C. SITE CLASS = D
   - D. IMPORTANCE FACTOR, I_s = 1.0
   - E. RESPONSE MODIFICATION FACTOR, R = 2.0
   - F. SEISMIC RESPONSE COEFFICIENT, C_s = 0.050
   - G. MAPPED SPECTRAL RESPONSE ACCELERATIONS: S_s = 0.094; S_1 = 0.055
   - H. SPECTRAL RESPONSE COEFFICIENTS: S_{DS} = 0.100; S_{D1} = 0.089
   - I. BASIC SEISMIC FORCE RESISTING SYSTEM: ORDINARY REINFORCED MASONRY SHEAR WALLS.
   - J. ANALYSIS USED: EQUIVALENT LATERAL FORCE PROCEDURE

9. SERVICEABILITY DEFLECTION (L=STRUCTURAL COMPONENT SPAN LENGTH)
   - A. FLOOR: LIVE LOAD = L/360, TOTAL LOAD = L/240
   - B. ROOF: LIVE LOAD = L/240, TOTAL LOAD = L/180

II. OVERVIEW

A. GENERAL
1. ANY CHANGES TO THE STRUCTURAL DESIGN MUST HAVE WRITTEN APPROVAL FROM THE ENGINEER OR THE CERTIFICATION MAY BE INVALIDATED.

2. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR FOLLOWING SAFETY PRECAUTIONS AND REGULATIONS.

3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR METHODS, TECHNIQUES, SEQUENCING AND SUPERVISION OF THE WORK.

4. THESE DRAWINGS INDICATE GENERAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY DETAILED, CONSTRUCTION SIMILAR TO THE DRAWING DETAILS SHALL BE USED, UNLESS NOTED OTHERWISE.

5. THE CONTRACTOR SHALL USE THESE DRAWINGS TOGETHER WITH THE DRAWINGS AND SPECIFICATIONS OF ALL OTHER DISCIPLINES ON THE PROJECT AND SHALL VERIFY THE REQUIREMENTS OF OTHER TRADES THAT INTERFACE WITH THE STRUCTURAL WORK.

6. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO DESIGN, INSTALL AND INSPECT ADEQUATE AND SAFE TEMPORARY BRACING, SHORING, ETC. REQUIRED DURING CONSTRUCTION UNTIL ALL STRUCTURAL WORK IS COMPLETED.

7. THE CONTRACTOR SHALL COMPLY WITH THE SUPPLIER'S MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION SPECIFICATIONS FOR ALL STRUCTURAL SYSTEM COMPONENTS.

8. THE CURRENT EDITIONS OF ASTM STANDARDS AND ALL REFERENCES SHALL APPLY UNLESS NOTED OTHERWISE.

9. DEMOLISHED ITEMS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE, UNLESS NOTED OTHERWISE.

10. DO NOT SCALE DRAWINGS. USE INDICATED DIMENSIONS ONLY.

B. SHOP DRAWINGS
1. THE GENERAL CONTRACTOR SHALL REVIEW, CHECK AND COORDINATE THE SHOP DRAWINGS AND SUBMIT A REVIEW STAMPED SET TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS WITHOUT A CONTRACTOR REVIEW STAMP WILL BE REJECTED BY THE ENGINEER.

2. THE ENGINEER WILL REVIEW SHOP DRAWINGS ONLY FOR CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE DRAWINGS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS.

3. THE ENGINEER SHALL REVIEW THE SHOP DRAWINGS IN ACCORDANCE WITH A SCHEDULE PRE-APPROVED BY THE ENGINEER; OR, IN THE ABSENCE OF A SCHEDULE, IN A MANNER DEEMED TIMELY BY THE ENGINEER.

4. AS A MINIMUM, SUBMIT THE FOLLOWING APPLICABLE SHOP DRAWINGS FOR REVIEW: (1) CONCRETE MIX DESIGN SPECIFICATIONS; (2) CONCRETE REINFORCING STEEL; (3) LOAD BEARING MASONRY REINFORCING STEEL; (4) STRUCTURAL STEEL; (5) STEEL JOISTS/GIRDERS; (6) METAL DECK; (7) WOOD TRUSSES; (8) LOAD BEARING COLD-FORMED STEEL FRAMING; (9) PRECAST CONCRETE.

II. OVERVIEW CONT.

D. SPECIAL INSPECTIONS
1. THE OWNER SHALL EMPLOY ONE OR MORE 3RD PARTY SPECIAL INSPECTORS WHO SHALL PROVIDE INSPECTIONS AND MATERIALS TESTING DURING CONSTRUCTION. ALL SPECIAL INSPECTIONS AND TESTING SHALL CONFORM TO THE REQUIREMENTS OF THE 2015 MICHIGAN BUILDING CODE (MBC). THIRD PARTY SPECIAL INSPECTORS MUST BE APPROVED BY EOR AND ARCHITECT PRIOR TO CONSTRUCTION.

2. SPECIAL INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE LOCAL BUILDING OFFICIAL. SPECIAL INSPECTIONS SHALL NOT RELIEVE THE OWNER AND CONTRACTOR FROM REQUESTING THE BUILDING OFFICIAL'S INSPECTIONS REQUIRED BY MBC SECTION 110.

3. SPECIAL INSPECTORS SHALL BE GIVEN PROPER NOTICE AND ACCESS TO THE SITE TO PERFORM TESTING AND INSPECTION AS NECESSARY.

4. REQUIRED CATEGORIES OF SPECIAL INSPECTIONS:
   - A. STEEL CONSTRUCTION (MBC SECTION 1705.2)
   - B. CONCRETE CONSTRUCTION (MBC SECTION 1705.3)
   - C. MASONRY CONSTRUCTION (MBS SECTION 1705.4)
   - D. SOILS (MBC SECTION 1705.6)

5. DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:
   - A. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TOVERIFY THAT IT CONFORMS TO CONTRACT DOCUMENTS.
   - B. THE SPECIAL INSPECTOR SHALL NOT AUTHORIZE OR APPROVE DEVIATIONS FROM THE CONTRACT DOCUMENTS. ALL DEVIATIONS FROM THE CONTRACT DOCUMENTS MUST BE INITIATED BY THE CONTRACTOR VIA A WRITTEN REQUEST FOR INFORMATION (RFI) AND APPROVED BY THE ENGINEER OF RECORD PRIOR TO PROCEEDING WITH WORK.
   - C. THE SPECIAL INSPECTOR SHALL FURNISH WRITTEN INSPECTION REPORTS TO THE ENGINEER OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF CORRECTIONS ARE NOT MADE, THE BUILDING OFFICIAL, AND ENGINEER AND ARCHITECT SHALL BE NOTIFIED.

III. CONCRETE

A. CAST-IN-PLACE CONCRETE
1. APPLICABLE SPECIFICATIONS
   - A. STRUCTURAL CONCRETE: ACI 301
   - B. HOT WEATHER CONCRETING: ACI 305
   - C. COLD WEATHER CONCRETING: ACI 306
   - D. CONCRETE MIX: ACI 301
   - E. REINFORCEMENT LAP & EMBEDMENT LENGTH: ACI 318
   - F. REINFORCEMENT DETAILING: ACI 315
   - G. WELDING REINFORCING STEEL: AWS D1.4
   - H. PORTLAND CEMENT CONCRETE: ASTM C150
   - I. AGGREGATE: ASTM C33
   - J. REINFORCING STEEL: ASTM A615
   - K. WELDED WIRE FABRIC, MIN. 70 KSI STRENGTH: ASTM A185
   - L. EPOXY COATED REINFORCING STEEL: ASTM A775
   - M. ADMIXTURES: ASTM C494
   - N. AIR-ENTRAINING ADMIXTURES: ASTM C260
   - O. READY-MIXED CONCRETE: ASTM C94

2. INTERIOR AND FOUNDATION CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 4,000 PSI AT 28 DAYS.

3. CONCRETE EXPOSED TO WEATHER SHALL HAVE A MINIMUM STRENGTH OF 4,000 PSI AT 28 DAYS, LIMESTONE AGGREGATE AND 4%-7% ENTRAINED AIR.

4. MINIMUM CONCRETE COVER FOR REINFORCING STEEL:
   - A. CAST AGAINST & PERMANENTLY EXPOSED TO EARTH: 3"
   - B. FORMED SURFACES EXPOSED TO WEATHER OR IN CONTACT WITH SOIL:
     1. #5 BARS OR LESS: 1-1/2"
     2. #6 BARS OR GREATER: 2"
   - C. FORMED SURFACE NOT EXPOSED TO WEATHER: 1-1/2"
   - D. FORMED SURFACES NOT EXPOSED TO WEATHER OR NOT IN CONTACT WITH SOIL:
     1. SLABS, WALLS, JOISTS: 3/4"
     2. BEAMS & COLUMNS - PRIMARY REINFORCEMENT: 1-1/2"
     3. BEAMS & COLUMNS - TIES, STIRRUPS, SPIRALS: 1-1/2"

5. STEEL REINFORCING SHALL BE GRADE 60. TIES AND STIRRUPS SHALL BE GRADE 60.

6. LAP CONTINUOUS REINFORCING STEEL WITH CLASS B SPLICES PER ACI 315, UNLESS NOTED OTHERWISE.

7. PROVIDE PLASTIC OR STAINLESS STEEL SUPPORTS FOR REINFORCING STEEL TO INSURE MINIMUM CONCRETE COVER.

8. SET REINFORCING STEEL AND SECURE PRIOR TO PLACING CONCRETE. VERTICAL DOWELS FOR MASONRY WALL REINFORCING MAY BE FLOATED IN PLACE.

9. REINFORCING STEEL SHALL BE CONTINUOUS AT CORNERS. EXTEND WALL VERTICAL REINFORCING INTO FOOTINGS AND PROVIDE DOWELS AS REQUIRED.

10. DO NOT FIELD BEND REINFORCING BARS EMBEDDED IN HARDENED CONCRETE.

11. WELDED WIRE FABRIC SHALL CONFORM TO THE SPECIFICATIONS IN THE "SLAB-ON-GRADE" SECTION OF THESE STRUCTURAL NOTES.

12. CONCRETE SUPERSTRUCTURE FORMWORK SHALL REMAIN IN PLACE UNTIL CONCRETE HAS OBTAINED AT LEAST 90% OF 28 DAY COMPRESSIVE STRENGTH. CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING AND RE-SHORING.

B. SLAB-ON-GRADE
1. CONCRETE WORK SHALL CONFORM TO THE SPECIFICATIONS IN THE "CAST-IN-PLACE CONCRETE" SECTION OF THESE STRUCTURAL NOTES.

2. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 SPECIFICATIONS; BE SUPPLIED IN FLAT SHEETS, LAP ADJOINING PIECES BY AT LEAST ONE FULL MESH AND BE HELD IN PLACE AS NEEDED TO REMAIN IN THE PROPER POSITION WHEN CONCRETE IS PLACED.

3. PROVIDE ONE LAYER OF 6X6-W1.4XW1.4 WELDED WIRE FABRIC PLACED 1-1/2" BELOW THE TOP OF THE SLAB, UNLESS NOTED OTHERWISE.

4. EXTERIOR SLABS TO BE UNREINFORCED UNLESS NOTED OTHERWISE. WHERE REINFORCING IS NOTED, ALL EXTERIOR SLAB REINFORCING SHALL BE EPOXY COATED.

5. POLYPROPYLENE FIBER REINFORCEMENT IS PROHIBITED WITHOUT THE WRITTEN AUTHORIZATION OF THE ENGINEER.

6. PROVIDE MIN. 10 MIL POLYETHYLENE VAPOR BARRIER OVER 4" POROUS SUBGRADE OR POROUS FILL COMPACTED TO 95% STANDARD PROCTOR UNDER INTERIOR CONCRETE SLABS.

7. POROUS FILL SHALL BE CLEAN GRANULAR MATERIAL WITH 100% PASSING THROUGH A 1-1/2" SIEVE AND NO MORE THAN 5% PASSING THROUGH A NO. 4 SIEVE.

8. MAXIMUM JOINT SPACING SHALL BE 30 TIMES THE SLAB THICKNESS. SAWCUT JOINTS AS SOON AS POSSIBLE AFTER CONCRETE IS PLACED. DO NOT SPALL JOINT EDGES. FILL SAWN JOINTS WITH EPOXY RESIN 4-6 WEEKS AFTER SLAB IS CAST. REMOVE DEBRIS FROM JOINTS PRIOR TO FILLING.

9. PROVIDE EXPANSION JOINTS BETWEEN EXTERIOR SLABS-ON-GRADE AND THE BUILDING.

10. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF DEPRESSED SLABS AND DRAINS. SLOPE SLAB TO DRAINS.

IV. FOUNDATIONS

A. GENERAL
1. FOLLOW ALL RECOMMENDATIONS OF THE GEOTECHNICAL REPORT FOR SITE BY WEAVER CONSULTANTS GROUP, DATED MAY 18, 2023.

2. FOOTINGS SHALL BEAR ON UNDISTURBED, FIRM, NATURAL SOIL OR COMPACTED FILL CAPABLE OF SUPPORTING THE MINIMUM SOIL BEARING PRESSURE SPECIFIED IN THE "DESIGN BASIS" SECTION OF THESE STRUCTURAL NOTES. A GEOTECHNICAL ENGINEER/TESTING AGENCY SHALL EVALUATE FOUNDATION EXCAVATIONS PRIOR TO PLACING FOUNDATION CONCRETE.

3. CONTRACTOR SHALL REMOVE UNSUITABLE SOILS FROM BELOW THE BUILDING AND PLACE SUITABLE FILL MATERIAL UNDER THE FOUNDATION COMPACTED TO 100% STANDARD PROCTOR IN 8" MAXIMUM LIFTS. A GEOTECHNICAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED SHALL TEST COMPACTED FILL PLACED UNDER FOUNDATIONS.

4. CONCRETE WORK SHALL CONFORM TO THE SPECIFICATIONS IN THE "CAST-IN-PLACE CONCRETE" SECTION OF THESE STRUCTURAL NOTES.

5. IF FOOTINGS ARE NOT PLACED IMMEDIATELY AFTER EXCAVATION, INSTALL A 2" THICK SEAL OF LEAN CONCRETE TO PROTECT THE SOIL FROM MOISTURE DAMAGE.

6. CONTRACTOR MAY LOCATE CONSTRUCTION JOINTS IN FOUNDATION WALLS AN FOOTINGS AT HIS DISCRETION. REINFORCING SHALL BE CONTINUOUS ACROSS CONSTRUCTION JOINTS. IN MAT AND SPREAD FOOTINGS, CONSTRUCTION JOINTS ARE PROHIBITED WITHOUT THE ENGINEER'S APPROVAL.

7. DEPRESS FOUNDATION WALLS 8" AT DOOR OPENINGS, UNLESS NOTED OTHERWISE. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR VERIFICATION OF DOOR OPENING LOCATIONS.

8. SECURE WATER STOPS TO AVOID SHIFTING WHEN CONCRETE IS PLACED.

9. COLUMN CENTERLINES AND PILE CAPS ARE LOCATED ON COLUMN CENTERLINES UNLESS NOTED OTHERWISE.

V. STEEL

A. STRUCTURAL STEEL
1. APPLICABLE SPECIFICATIONS (FY=MINIMUM YIELD STRENGTH)
   - A. W SHAPES, MIN. FY = 50 KSI: ASTM A992
   - B. HSS ROUND SHAPES, MIN FY = 42 KSI: ASTM A500, GRADE B
   - C. HSS RECTANGULAR SHAPES, MIN. FY = 46 KSI: ASTM A500, GRADE B
   - D. M, S, C, MC, L SHAPES, MIN. FY = 36 KSI: ASTM A36
   - E. HP SHAPES, MIN. FY = 50 KSI: ASTM A572, GRADE 50
   - F. BEARING PLATES, MIN. FY = 36 KSI: ASTM A36
   - G. ANCHOR BOLTS: ASTM F1554, GRADE 36
   - H. HIGH STRENGTH BOLTS, MIN. ULTIMATE STRENGTH, FU = 120 KSI: ASTM A325
   - I. THREADED RODS, MIN. FY = 36 KSI: ASTM A36
   - J. NON-SHRINK GROUT, MIN. 8,000 PSI STRENGTH: ASTM C1107
   - K. STRUCTURAL STEEL CONSTRUCTION: AISC, TYPE 2
   - L. HOT-DIP GALVANIZING: ASTM A153
   - M. WELDING, MIN. FY = 58 KSI FOR FILLER MATERIAL: AWS D1.1

2. STEEL FABRICATOR SHALL MAINTAIN DETAILED QUALITY CONTROL PROCEDURES AS REQUIRED BY THE SPECIAL INSPECTION SPECIFICATIONS OF THE INTERNATIONAL BUILDING CODE.

3. CONNECTIONS SHALL BE SHEAR TYPE UNLESS NOTED OTHERWISE AND DESIGNED BY THE FABRICATOR FOR SHEAR LOADS INDICATED ON THESE DRAWINGS IN ACCORDANCE WITH THE AISC SPECIFICATIONS DESIGNATED IN THE "DESIGN BASIS" SECTION OF THESE STRUCTURAL NOTES.

4. COLUMNS, ANCHOR BOLTS, BASE PLATES, ETC. ARE DESIGNED FOR THE FINAL LOADING CONDITION AND HAVE NOT BEEN INVESTIGATED FOR POTENTIAL LOADINGS DURING ERECTION AND CONSTRUCTION. THIS INVESTIGATION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

5. MOMENT CONNECTIONS ARE DENOTED WITH THE SYMBOL ⊢ ON THESE DRAWINGS. THE FABRICATOR SHALL SUBMIT CALCULATIONS AND SHOP DRAWINGS FOR ALL SPECIAL CONNECTIONS, INCLUDING MOMENT CONNECTIONS.

6. BOLTS SHALL BE SNUG-FIT SHEAR/BEARING TYPE WITH MINIMUM 3/4" DIAMETER, UNLESS NOTED OTHERWISE.

7. A CERTIFIED WELDER SHALL PERFORM ALL WELDING WORK. USE E70XX ELECTRODES FOR WELDING, UNLESS NOTED OTHERWISE. PROVIDE CONTINUOUS MINIMUM SIZED FILLET WELDS IN ACCORDANCE WITH AISC SPECIFICATIONS. TOUCH UP WELDED CONNECTIONS WITH ZINC RICH PRIMER.

8. DRILL OR PUNCH HOLES IN STEEL. PROVIDE SMOOTH EDGES FOR SLOTTED HOLES. BURNING AND TORCH CUTTING AT THE SITE IS NOT PERMITTED.

9. SHOP PAINT STRUCTURAL STEEL WITH ONE COAT OF RUST INHIBITIVE ALKYD PRIMER, UNLESS NOTED OTHERWISE.

10. HOT-DIP GALVANIZE STRUCTURAL STEEL PERMANENTLY EXPOSED TO THE WEATHER, INCLUDING BRICK SHELF ANGLES AND LINTELS AT EXTERIOR OPENINGS.

11. FIELD REPAIR PERMANENT COATINGS DAMAGED DURING TRANSPORT, ERECTING AND FIELD WELDING TO MATCH THE SHOP APPLIED COATING.

12. THE STRUCTURAL STEEL ERECTOR SHALL PROVIDE TEMPORARY GUYING AND BRACING.

13. PROVIDE ANGLE FRAMES AT ROOF OPENINGS AND ROOFTOP MECHANICAL UNITS IN ACCORDANCE WITH DETAILS PROVIDED IN THESE DRAWINGS.

B. STEEL JOISTS & JOIST GIRDERS
1. STEEL JOIST INSTITUTE (SJI) STANDARDS AND SPECIFICATIONS SHALL APPLY FOR THE DESIGN, FABRICATION, AND ERECTION OF STEEL JOISTS AND GIRDERS, INCLUDING JOIST BRIDGING AND SHOP PAINTING.

2. JOIST AND GIRDER MANUFACTURERS SHALL BE SJI CERTIFIED AND MAINTAIN APPROVED FABRICATION PROCEDURES AS REQUIRED BY THE SPECIAL INSPECTION SPECIFICATIONS OF THE INTERNATIONAL BUILDING CODE.

3. PRIOR TO FABRICATION, THE JOIST MANUFACTURER SHALL SUBMIT CALCULATIONS TO THE ENGINEER FOR SPECIAL JOISTS AND ALL JOIST GIRDERS, CERTIFIED BY A PROFESSIONAL IN THE STATE WHERE INSTALLED FOR RECORD PURPOSES.

4. PROPERLY ANCHOR JOISTS AT BEARINGS. REFER TO ANY DETAILS IN THESE DRAWINGS.

5. COMPLETELY INSTALL JOIST BRIDGING AND CONNECTIONS PRIOR TO PLACING ANY CONSTRUCTION LOADS ON THE JOISTS. CONSTRUCTION LOADS SHALL NOT EXCEED JOIST DESIGN LOAD.

6. AT STANDING SEAM ROOFS, PROVIDE ADDITIONAL BRIDGING TO ADEQUATELY BRACE TOP CHORDS AGAINST LOADS ON THE JOISTS. CONSTRUCTION LOADS SHALL NOT EXCEED JOIST DESIGN LOAD.

7. DESIGN ROOF JOISTS AND GIRDERS FOR A NET WIND UPLIFT AS SPECIFIED ON THESE DRAWINGS. MANUFACTURER SHALL PROVIDE BOTTOM CHORD BRACING FOR JOISTS AS REQUIRED TO RESIST WIND UPLIFT.

8. JOIST ON COLUMN CENTERLINES SHALL HAVE EXTENDED BOTTOM CHORD CONNECTIONS. REFER TO ANY DETAILS IN THESE DRAWINGS. DO NOT CONNECT BOTTOM CHORD EXTENSION TO STABILIZER PLATE.

9. ATTACH FIELD INSTALLED MEMBERS AT CONCENTRATED LOADS NOT OCCURING AT PANEL POINTS.

10. INSTALL ADDITIONAL JOISTS UNDER PARTITIONS RUNNING PARALLEL TO JOISTS.

V. STEEL CONT.

C. METAL ROOF & FLOOR DECK
1. AMERICAN STEEL DECK INSTITUTE "DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS AND ROOF DECKS" SHALL APPLY FOR THE MANUFACTURING AND ERECTION OF METAL DECK.

2. CONCRETE TOPPING SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI WITH MAXIMUM 1/2 INCH AGGREGATE SIZE AND MAXIMUM 4 INCH SLUMP, UNLESS NOTED OTHERWISE.

3. WELDING SHALL BE IN ACCORDANCE WITH AWS D3.1 SPECIFICATIONS. PROVIDE WELDING WASHERS FOR FLOOR DECK WELDS. TOUCH UP DECK WELDS WITH PAINT.

4. CONTRACTOR TO SUBMIT SHOP DRAWINGS PRIOR TO FABRICATION WITH LAYOUT, DECK TYPES, CONNECTION DETAILS AND OTHER RELATED ITEMS.

5. DECK SHALL NOT SUPPORT SUSPENDED CEILINGS, LIGHT FIXTURES, DUCTS AND OTHER PERMANENT SUSPENDED LOADS.

6. ROOF DECK SHALL BE GALVANIZED.

7. CONNECT ROOF DECK AS SHOWN IN THESE DRAWINGS. AT ENDS OF CANTILEVERS, ATTACH ROOF DECK SIDELAPS AT A MAXIMUM SPACING OF 12 INCHES ON CENTER. COMPLETELY ATTACH ROOF DECK TO SUPPORTS AND AT SIDELAPS PRIOR TO APPLYING ANY LOAD TO THE CANTILEVER.

VII. MASONRY

A. GENERAL
1. APPLICABLE SPECIFICATIONS
   - A. HOLLOW AND SOLID LOAD BEARING CMU: ASTM C90
   - B. HOLLOW NON-LOAD BEARING CMU: ASTM C129
   - C. REINFORCING STEEL: ASTM A615
   - D. GROUT FOR MASONRY: ASTM C476
   - E. MORTAR FOR MASONRY: ASTM C270
   - F. MASONRY CONSTRUCTION: ACI 530

2. MINIMUM PRISM COMPRESSIVE STRENGTH (F'M) SHALL BE 1,500 PSI AT 28 DAYS AS DETERMINED BY THE UNIT STRENGTH METHOD OF ACI 530.1.

3. PROVIDE SPECIAL INSPECTION ON STRUCTURAL MASONRY.

4. MASONRY CONTRACTOR SHALL PROVIDE REQUIRED TEMPORARY WALL BRACING DURING CONSTRUCTION.

5. LAY WALLS IN RUNNING BOND UNLESS NOTED OTHERWISE. BOND CORNERS AND INTERSECTIONS OF LOAD BEARING WALLS.

B. GROUT & MORTAR
1. FILL BOND BEAMS AND REINFORCED CELLS SOLIDLY WITH GROUT HAVING A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2,800 PSI.

2. THE USE OF MASONRY CEMENT IS STRICTLY PROHIBITED. MORTAR SHALL BE MADE WITH NON-AIR ENTRAINED PORTLAND CEMENT/LIME. USE TYPE S MORTAR FOR MASONRY ABOVE GRADE AND TYPE M MORTAR FOR MASONRY BELOW GRADE AND IN CONTACT WITH THE EARTH.

3. USE CONSTRUCTION PROCEDURES OR ADMIXTURES TO MINIMIZE GROUT SHRINKAGE AND TO MAXIMIZE THE BOND BETWEEN THE REINFORCEMENT, GROUT AND UNITS.

4. IF PROVIDED, CONSTRUCT MASONRY WALLS IN ACCORDANCE WITH LOW-LIFT OR HIGH-LIFT GROUTING DETAILS. ONLY SPECIFICALLY QUALIFIED CONTRACTORS SHALL CONSTRUCT WITH HIGH-LIFT GROUTING AND SHALL HAVE SUCCESSFULLY COMPLETED AT LEAST THREE PREVIOUS PROJECTS UTILIZING HIGH-LIFT GROUTING. CONTRACTOR SHALL SUBMIT A DETAILED HIGH-LIFT GROUTING CONSTRUCTION PROCEDURE FOR APPROVAL, INCLUDING DOCUMENTATION OF SPECIFICALLY TRAINED PERSONNEL.

C. STEEL REINFORCING
1. REINFORCING STEEL SHALL BE GRADE 60. SHOP FABRICATE HOOKED OR BENT BARS. PROVIDE A MINIMUM LAP LENGTH OF 48 TIMES THE BAR DIAMETER, UNLESS NOTED OTHERWISE.

2. PROVIDE DOWELS FROM FOUNDATIONS TO MATCH VERTICAL REINFORCING AND SPACING. DOWELS SHALL HAVE STANDARD 90 DEGREE HOOKS AND LAP WITH THE FIRST LIFT OF REINFORCING.

3. PROVIDE #4 VERTICAL REINFORCING BARS SPACED AT 48 INCHES ON CENTER, CENTERED IN CORES, UNLESS NOTED OTHERWISE AND AT WALL CORNERS INTERSECTIONS AND OPENING EDGES.

4. PROVIDE CONTINUOUS HORIZONTAL REINFORCING IN BOND BEAMS. DISCONTINUE HORIZONTAL REINFORCING AT CONTROL JOINTS EXCEPT FOR BOND BEAMS AT BEARING ELEVATIONS.

5. PROVIDE BOND BEAM LINTELS AND BRICK SHELF ANGLES ABOVE WALL OPENINGS. LINTELS SHALL HAVE A MINIMUM 8 INCHES OF BEARING AT EACH END, UNLESS NOTED OTHERWISE. CONFIRM WINDOW AND DOOR LOCATIONS WITH ARCHITECTURAL DRAWINGS.

6. STEEL BEARING CENTERLINE IS AT THE MASONRY UNIT CENTERLINE. PROVIDE BEAM POCKETS IN MASONRY.

7. PROVIDE BEARING PLATES AND OTHER ACCESSORIES AS INDICATED ON THESE DRAWINGS. PROVIDE THREE COURSES OF SOLIDLY TAMPED GROUTED MASONRY UNITS BELOW BEAM BEARINGS OVER A WIDTH OF 32 INCHES, CENTERED ON THE WALL.

8. PROVIDE CONTROL JOINTS SUCH THAT SPACING DOES NOT EXCEED THREE TIMES THE WALL HEIGHT WITH A MAXIMUM SPACING OF 35 FEET. WHERE BEAMS AND LINTELS BEAR AT MASONRY UNIT CONTROL JOINTS, OFFSET AND LAP VERTICAL REINFORCING A DISTANCE EQUAL TO 48 TIMES THE BAR DIAMETER.

9. PROVIDE STANDARD 9 GAGE HORIZONTAL WALL JOINT REINFORCING AT 16 INCHES ON CENTER CONTINUOUS IN WALLS, UNLESS NOTED OTHERWISE. PROVIDE TRUSS TYPE JOINT REINFORCING FOR CONCRETE MASONRY. LAP REINFORCING AT WALL CORNERS, TEES AND REINFORCING SPLICES. TRUSS CONFIGURATION SHALL NOT EXTEND ACROSS THE CAVITY TO THE BRICK VENEER. COORDINATE BRICK TIE-BACK REQUIREMENTS WITH THE ARCHITECT. DISCONTINUE HORIZONTAL JOINT REINFORCING AT CONTROL JOINTS UNLESS NOTED OTHERWISE.

10. WALL TIES SHALL BE 3/4 INCH, 22 GAGE GALVANIZED STEEL SPACED TO SUPPORT A MAXIMUM AREA OF TWO SQUARE FEET BUT SHALL HAVE A MAXIMUM HORIZONTAL SPACING OF 24 INCHES ON CENTER.

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PROJECT:

DOING THE MOST GOOD

NILES FACILITY
1707 MILLER DR. NILES, MI
49120

SHEET TITLE:
STRUCTURAL SPECIFICATIONS

MODELED BY: JMO
DESIGNED BY: JMO
PM REVIEW: SFL
QA/QC REVIEW: SFL
DATE: 07/31/2023
SEAL:

STATE OF MICHIGAN
SCOTT FRANCIS LEBLANG
ENGINEER
No. 6201067898
LICENSED PROFESSIONAL ENGINEER

SIGNATURE:
DATE:

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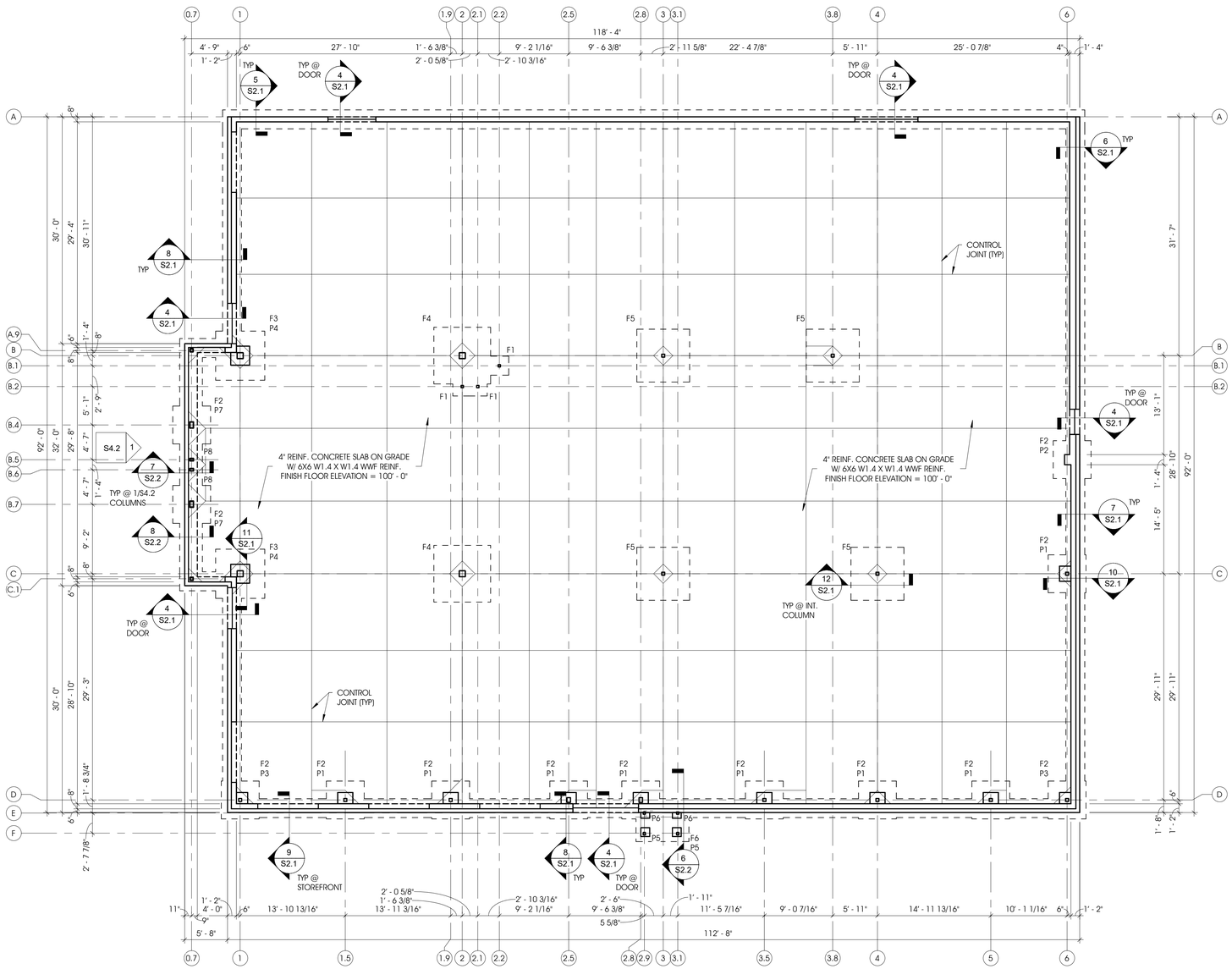

1 FOUNDATION PLAN
S1.0 1/8" = 1'-0"

GENERAL NOTES

A. ALL SLABS ON GRADE TO BE AT FINISH FLOOR ELEVATION 100'-0" = 741.00' U.N.O.

B. ALL SLABS TO BE 4" THICK CONCRETE WITH 6X6 - W1.4XW1.4 WWF REINFORCING. LOCATE 1-1/2" BELOW TOP OF SLAB U.N.O.

C. BUILDING FLOOR SLABS TO BE SUPPORTED ON A MINIMUM OF 6" THICK WELL-COMPACTED GRANULAR BASE COURSE (MDOT NO. 53 CRUSHED STONE) BEARING ON A SUITABLY PREPARED SUB GRADE.

D. EXACT LOCATION OF PLUMBING TO BE COORDINATED WITH PLUMBING PLANS.

FOOTING SCHEDULE

MARK	DIMENSIONS	THICK	T/FTG. ELEV.	TOP REINF.	BOT. REINF.	QNTY	T/PEDESTAL ELEV.
F1	2'-6"X2'-6"	12"	99'-4"	N/A	#5 @ 12 E.W.	3	N/A
F2	5'-0"X5'-0"	12"	97'-0"	N/A	#5 @ 12 E.W.	13	97'-0"
F3	6'-6"X6'-6"	12"	97'-0"	N/A	#5 @ 12 E.W.	2	97'-0"
F4	7'-6"X7'-6"	12"	99'-4"	N/A	#5 @ 12 E.W.	2	N/A
F5	7'-0"X7'-0"	12"	99'-4"	#5 @ 12 E.W.	#5 @ 12 E.W.	4	N/A
F6	7'-0"X5'-8"	12"	97'-0"	#5 @ 12 E.W.	#5 @ 12 E.W.	1	100'-0"

PEDESTAL SCHEDULE

MARK	DIMENSIONS	VERTICAL REINF.	HORIZONTAL REINF.	QNTY	T/PEDESTAL ELEV.
P1	24"X32"	26 #5 DOWELS	#4 @ 10"	7	99'-4"
P2	16"X24"	14 #5 DOWELS	#4 @ 10"	1	100'-0"
P3	32"X32"	34 #5 DOWELS	#4 @ 10"	2	99'-4"
P4	30"X30"	30 #5 DOWELS	#4 @ 10"	2	99'-4"
P5	14"X14"	8 #5 DOWELS	#4 @ 9"	4	100'-0"
P6	14"X23"	10 #5 DOWELS	#4 @ 9"	2	100'-0"
P7	20"X24"	14 #5 DOWELS	#4 @ 10"	2	99'-4"
P8	20"X12"	8 #5 DOWELS	#4 @ 10"	2	99'-4"
P9	18"X18"	8 #5 DOWELS	#4 @ 9"	2	99'-4"

COLUMN SCHEDULE

MARK	SHAPE	BASE PLATE	LOCATION	BRG. ELEV.	T/COL. ELEV.	QNTY
C1	HSS 4X4X5/16	10"X10"X3/4"	B.1-2.2; B.2-2; B.2-2.1	99'-5 1/2"	113'-5"	3
C2	HSS 4X4X3/8	8"X8"X3/4"	E-2.9	100'-0"	115'-6"	1
C3	HSS 4X4X3/8	8"X8"X3/4"	G-2.9; G-3.1; E-3.1	100'-0"	120'-1 5/8"	3
C4	HSS 4X4X3/8	10"X8"X3/4"	E-2.5; G-2.5	110' - 11 15/16"	120'-1 5/8"	2
C5	HSS 5X5X3/16	11"X11"X3/4"	D-1; D-1.5; D-1.9; D-3.5; D-4; D-5; D-6	99'-5 1/2"	115'-10 9/16"	7
C6	HSS 5X5X3/16	11"X11"X3/4"	C-6	99'-5 1/2"	115'-3 1/8"	1
C7	HSS 5X5X1/4	11"X11"X3/4"	C-3; C-4	99'-5 1/2"	115'-3 1/8"	2
C8	HSS 5X5X1/4	11"X11"X3/4"	B-3; B-3.8	99'-5 1/2"	114'-7 7/8"	2
C9	HSS 6X4X5/16	10"X7"X3/4"	B.5-0.7; B.6-0.7	99'-5 1/2"	-	2
C10	HSS 8X6X3/8	14"X12"X3/4"	D-2.5; D-2.8	99'-5 1/2"	115'-10 9/16"	2
C11	HSS 10X6X3/8	16"X7"X3/4"	B.4-0.7; B.7-0.7	99'-5 1/2"	130'-3 5/8"	2
C12	HSS 10X10X1/2	16"X11"X3/4"	B-1; C-1	99'-5 1/2"	121'-1 5/16"	2
C13	HSS 10X10X1/2	16"X16"X3/4"	B-2; C-2	99'-5 1/2"	121'-1 5/16"	2
C14	HSS 5X5X3/16	11"X11"X3/4"	A.9-0.7; C.1-0.7	99'-5 1/2"	110'-5 1/4"	2

NOTES: BRG. ELEVATION EQUALS BOT. OF BASE PLATE ELEVATIONS. SEE DETAILS FOR NON-SHRINK GROUT REQUIREMENTS AND TOP OF FDTN. ELEVATIONS.

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PROJECT:
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49120

FOUNDATION PLAN

SHEET TITLE:

MODELED BY: JMO
DESIGNED BY: JMO
PM REVIEW: SFL
QA/QC REVIEW: SFL
DATE: 07/31/2023
SEAL: STATE OF MICHIGAN — SCOTT FRANCIS LEBLANG — ENGINEER — No. 6201067898 — LICENSED PROFESSIONAL ENGINEER
SIGNATURE:
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SHEET NO. S1.0

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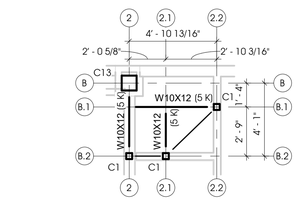
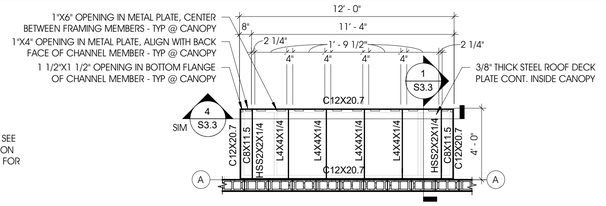
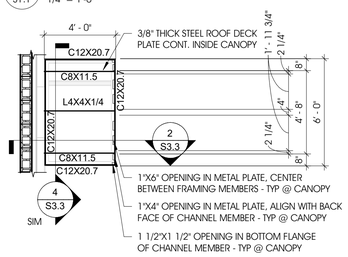


7 S1.1 PARTIAL ROOF FRAMING PLAN - PARTITION WALL SUPPORT
1/4" = 1'-0"



5 S1.1 12' CANOPY FRAMING PLAN
1/4" = 1'-0"



6 S1.1 6' CANOPY FRAMING PLAN
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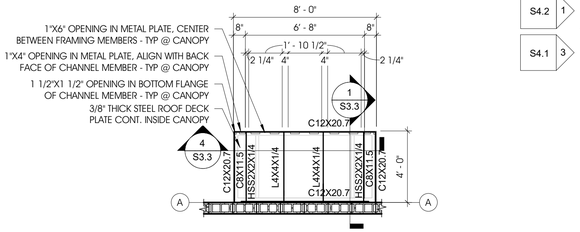
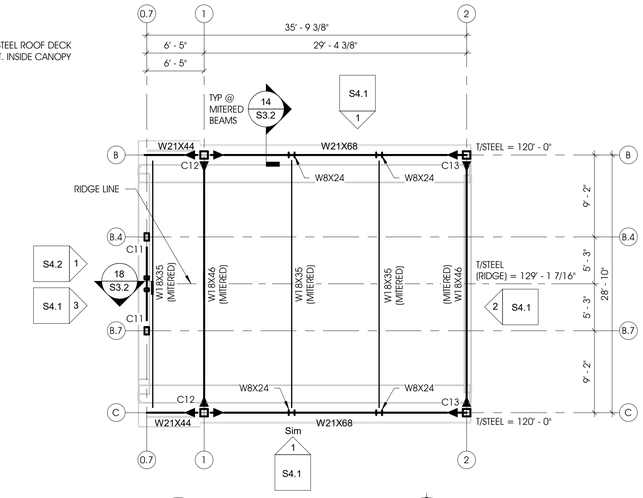
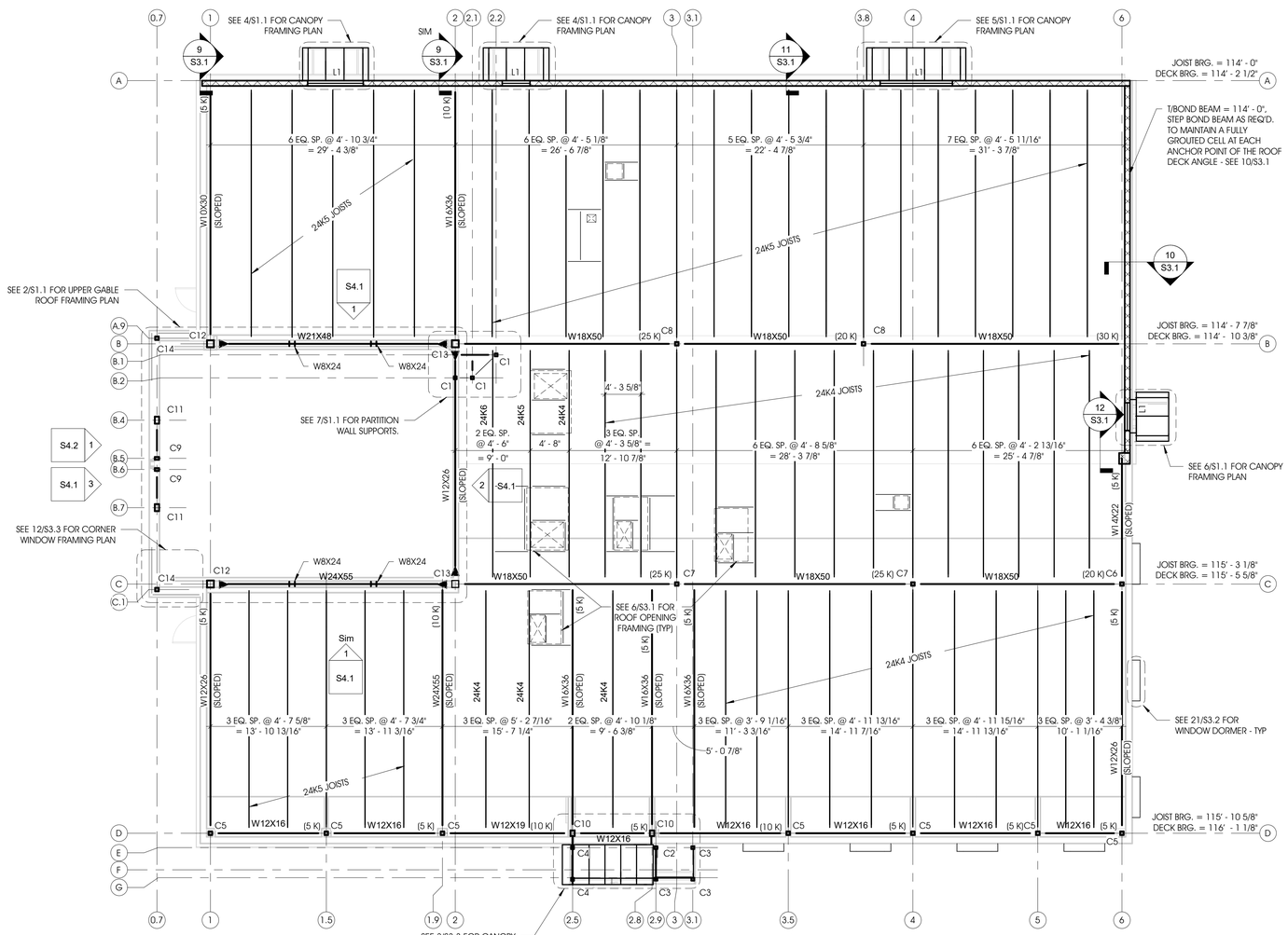


4 S1.1 8' CANOPY FRAMING PLAN
1/4" = 1'-0"



2 S1.1 UPPER GABLE ROOF - FR EL. = 121' -7"N
1/8" = 1'-0"



1 S1.1 LOWER ROOF - FRAMING PLAN
1/8" = 1'-0" EL. = 114' - 0"

GENERAL NOTES

1. ALL BEAMS TO BEAR ON BEARING PLATES (MIN. 10"x6") IN POCKET IN CMU WALLS AND ON CMU PILASTER (6" MIN. BEARING LENGTH, WELD TO PLATE) PROVED HEADED STUDS AT PLATE UNDERSIDE.
2. ALL CMU WALLS TO BE REINFORCED WITH #5 VERTICAL BARS @ 48" O.C., CENTERED IN WALL (U.N.O) MIN. LAP = 24".
3. PROVIDE BOND BEAM AT TOP OF PARAPET WALL W/ (2) CONT. #5 BARS.
4. JOIST BEARING VARIES, SEE PLAN FOR JOIST BEARING ELEVATIONS.
5. ROOF DECK = 1.5B20 METAL DECK U.N.O.
6. T/STL. EL. AS NOTED ON PLANS. T/STL. EL. = JOIST BRG. EL. U.N.O. ALL SLOPED STEEL BEAM TO HAVE T/STL. ALIGNED W/ ADJACENT PARALLEL ROOF JOISTS.
7. UPPER GABLE ROOF DECK = 3X6 DOUGLAS FIR, KD SELECT DEX TONGUE AND GROOVE TIMBER DECKING.
8. FASTENERS IN TONGUE AND GROOVE TIMBER DECKING SHALL NOT PENETRATE THE INTERIOR FACE OF THE TIMBER DECKING
8. MECH. ENGINEER TO VERIFY LOCATION AND SIZE OF OPENINGS AND ANGLE FRAMES AT RTU'S.
9. JOISTS HAVE BEEN DESIGNED FOR SNOW AND DEAD LOADS. JOIST MANUF. TO REFER TO MECH. DRAWINGS TO DESIGN JOISTS FOR RTU LOADING.
10. DECK OPENINGS TO BE FRAMED WITH L5X3-1/2X1/4 U.N.O. SEE S6/S3.1 FOR FRAMING DETAIL.
11. CANOPIES TO BE SHOP WELDED WITH HSS BRACES SEPERATE FROM CANOPY U.N.O - CONNECTION DESIGN BY STEEL MANUF. ALL EXTERIOR CANOPY FRAMING TO BE HOT DIP GALVANIZED, SHOP PRIMED, AND PAINTED PER SPECIFICATIONS.

COLUMN SCHEDULE

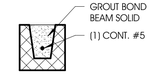
MARK	SHAPE	BASE PLATE	LOCATION	BRG. ELEV.	T/COL. ELEV.	QNTY
C1	HSS 4X4X5/16	10"X10"X3/4"	B.1-2.2; B.2-2; B.2-2.1	99'-5 1/2"	113'-5"	3
C2	HSS 4X4X3/8	8"X8"X3/4"	E-2.9	100'-0"	115'-6"	1
C3	HSS 4X4X3/8	8"X8"X3/4"	G-2.9; G-3.1; E-3.1	100'-0"	120'-1 5/8"	3
C4	HSS 4X4X3/8	10"X8"X3/4"	E-2.5; G-2.5	110' - 11 15/16"	120'-1 5/8"	2
C5	HSS 5X5X3/16	11"X11"X3/4"	D-1; D-1.5; D-1.9; D-3.5; D-4; D-5; D-6	99'-5 1/2"	115'-10 9/16"	7
C6	HSS 5X5X3/16	11"X11"X3/4"	C-6	99'-5 1/2"	115'-3 1/8"	1
C7	HSS 5X5X1/4	11"X11"X3/4"	C-3; C-4	99'-5 1/2"	115'-3 1/8"	2
C8	HSS 5X5X1/4	11"X11"X3/4"	B-3; B-3.8	99'-5 1/2"	114'-7 7/8"	2
C9	HSS 6X4X5/16	10"X7"X3/4"	B.5-0.7; B.6-0.7	99'-5 1/2"	-	2
C10	HSS 8X6X3/8	14"X12"X3/4"	D-2.5; D-2.8	99'-5 1/2"	115'-10 9/16"	2
C11	HSS 10X6X3/8	16"X7"X3/4"	B.4-0.7; B.7-0.7	99'-5 1/2"	130'-3 5/8"	2
C12	HSS 10X10X1/2	16"X11"X3/4"	B-1; C-1	99'-5 1/2"	121'-1 5/16"	2
C13	HSS 10X10X1/2	16"X16"X3/4"	B-2; C-2	99'-5 1/2"	121'-1 5/16"	2
C14	HSS 5X5X3/16	11"X11"X3/4"	A.9-0.7; C.1-0.7	99'-5 1/2"	110'-5 1/4"	2

NOTES: BRG. ELEVATION EQUALS BOT. OF BASE PLATE ELEVATIONS. SEE DETAILS FOR NON-SHRINK GROUT REQUIREMENTS AND TOP OF FDTN. ELEVATIONS.

LINTEL LEGEND

HEADER MARK	LINTEL SIZE	REINFORCING
L1	8" BOND BEAM	1 CONT. #5 BAR

NOTES:
1. PROVIDE MINIMUM 8" BEARING EACH SIDE OF OPENING.
2. ALL LOOSE LINTELS TO BE HOT-DIP GALVANIZED.
3. PROVIDE L4X4X3/8 LINTEL FOR VENEER SUPPORT AS REQUIRED.



LINTEL SECTION
SCALE: 1" = 1'-0"

BEAM KEY PLAN

(SHAPE) SHEAR REACTION (KIPS ASD)
(T/STL. EL.)

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PROJECT:
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NILES FACILITY
1707 MILLER DR. NILES, MI 49120

SHEET TITLE:
ROOF FRAMING PLANS

MODELED BY: JMO
DESIGNED BY: JMO
PM REVIEW: SFL
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DATE: 07/31/2023
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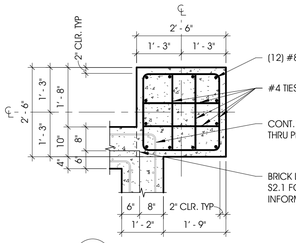
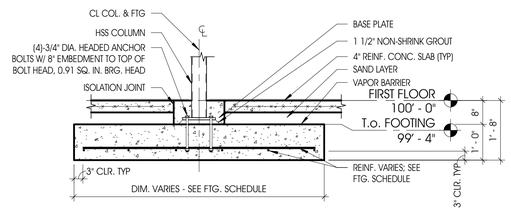
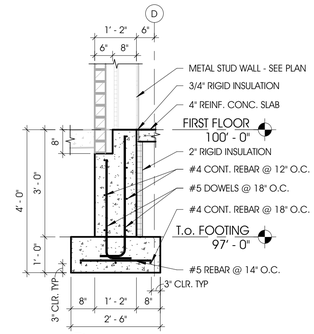


16 PEDESTAL - P4 DETAIL
S2.1 1/2" = 1'-0"



12 FOUNDATION DETAIL
S2.1 1/2" = 1'-0"



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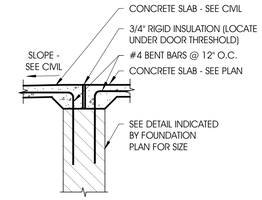
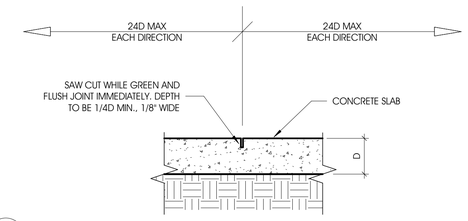


4 FOUNDATION @ DOOR DETAIL
S2.1 1/2" = 1'-0"



3 FLOOR SLAB CONTROL JOINT DETAIL
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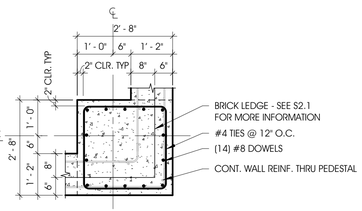

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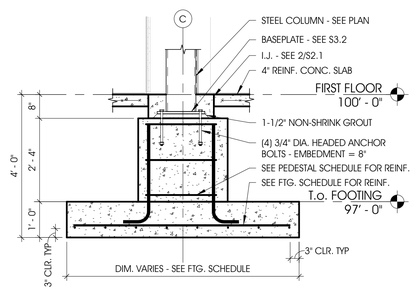

11 FOUNDATION DETAIL
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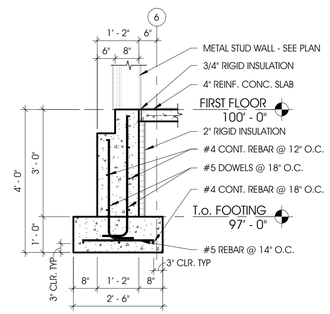

7 FOUNDATION DETAIL
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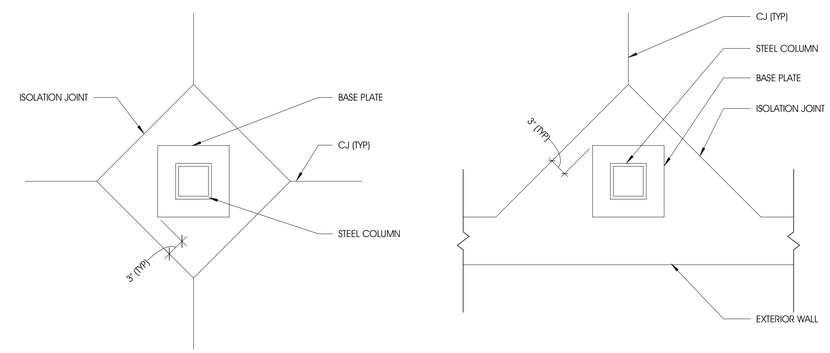
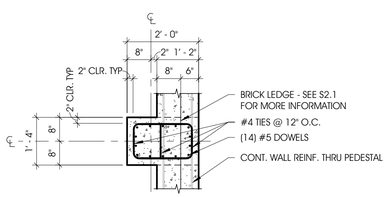


INTERIOR ISOLATION JOINT **EXTERIOR WALL ISOLATION JOINT**

2 ISOLATION JOINT
S2.1 1" = 1'-0"



14 PEDESTAL - P2 DETAIL
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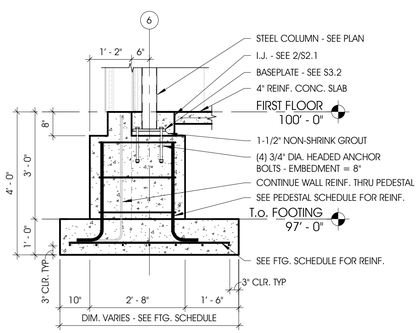
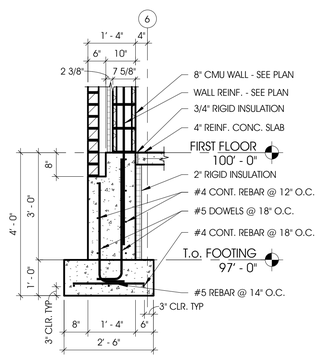
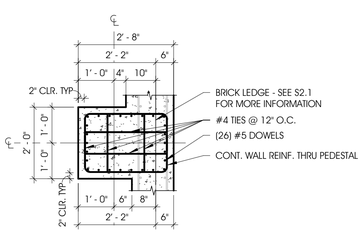


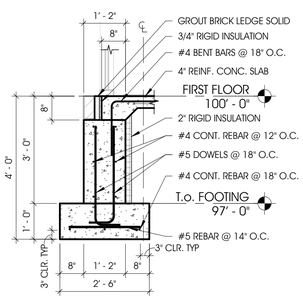
10 FOUNDATION DETAIL
S2.1 1/2" = 1'-0"



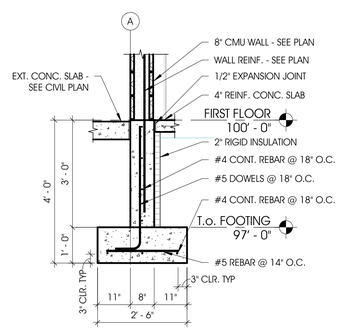
6 FOUNDATION DETAIL
S2.1 1/2" = 1'-0"



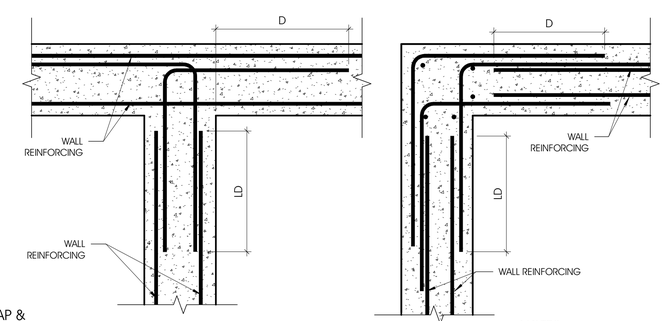
13 PEDESTAL - P1 DETAIL
S2.1 1/2" = 1'-0"



9 FOUNDATION DETAIL
S2.1 1/2" = 1'-0"



5 FOUNDATION DETAIL
S2.1 1/2" = 1'-0"



TEE INTERSECTION CORNER

MINIMUM REQUIRED LAP & DEVELOPMENT LENGTH, Ld

REINF. BAR SIZE	VERT. BARS	HORIZ. BARS
#4	25"	33"
#5	31"	41"
#6	37"	48"

TYP. FOUNDATION INTERSECTIONS

NOTES

1. BAR DEVELOPMENT LENGTH SHALL BE IN ACCORDANCE WITH ACI 318 AND "MINIMUM REQUIRED LAP & DEVELOPMENT LENGTH, LD" TABLE, THIS DETAIL.

2. CORNER REINF. MAY BE AN EXTENSION OF THE WALL REINFORCING AT THE CONTRACTOR'S OPTION.

1 TYPICAL FOUNDATION REINF DETAILS
S2.1 1 1/2" = 1'-0"

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1707 MILLER DR. NILES, MI
49120

SHEET TITLE:
FOUNDATION DETAILS

MODELED BY: JMO
DESIGNED BY: JMO
PM REVIEW: SFL
QA/QC REVIEW: SFL
DATE: 07/31/2023
SEAL: STATE OF MICHIGAN — SCOTT FRANCIS LEBLANG — ENGINEER — No. 6201067898 — LICENSED PROFESSIONAL ENGINEER
SIGNATURE:
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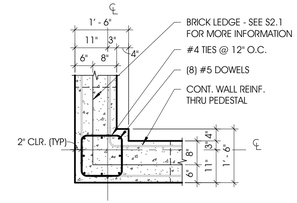
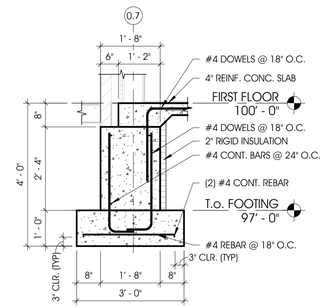


5 S2.2 PEDESTAL - P9
1/2" = 1'-0"



8 S2.2 FOUNDATION DETAIL
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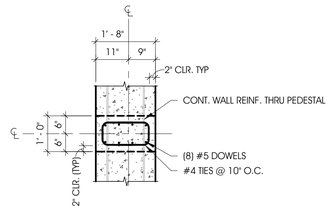
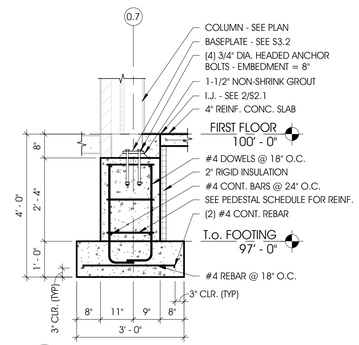
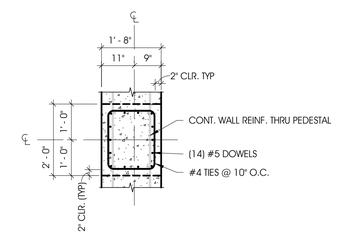


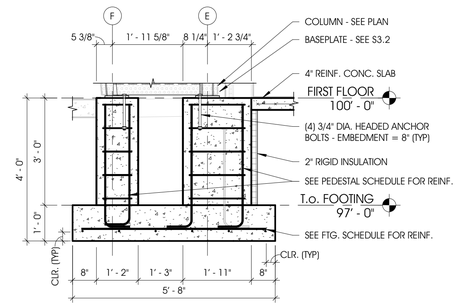
4 S2.2 PEDESTAL - 8 DETAIL
1/2" = 1'-0"



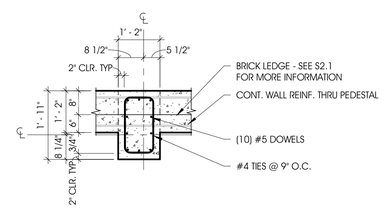
7 S2.2 FOUNDATION DETAIL
1/2" = 1'-0"



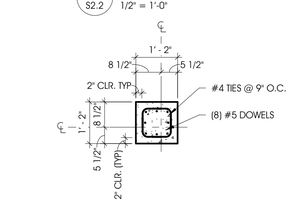
3 S2.2 PEDESTAL - 7 DETAIL
1/2" = 1'-0"



6 S2.2 FOUNDATION DETAIL
1/2" = 1'-0"



2 S2.2 PEDESTAL - 6 DETAIL
1/2" = 1'-0"



1 S2.2 PEDESTAL - P5 DETAIL
1/2" = 1'-0"

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SHEET TITLE:

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PM REVIEW: SFL
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SEAL:

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SCOTT FRANCIS LEBLANG
ENGINEER
No. 6201067898
LICENSED PROFESSIONAL ENGINEER

SIGNATURE:
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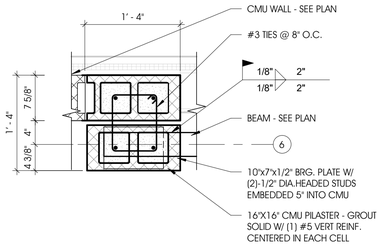
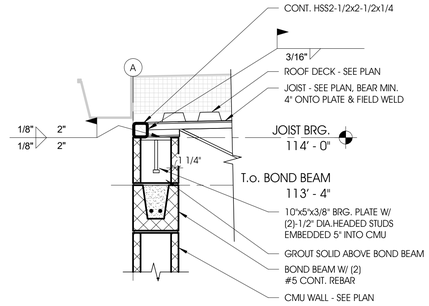
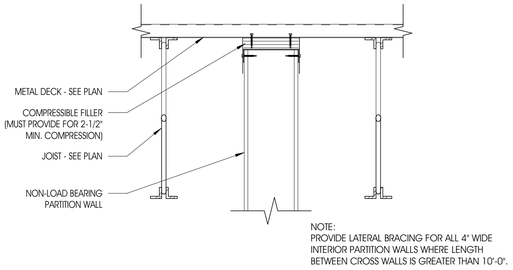


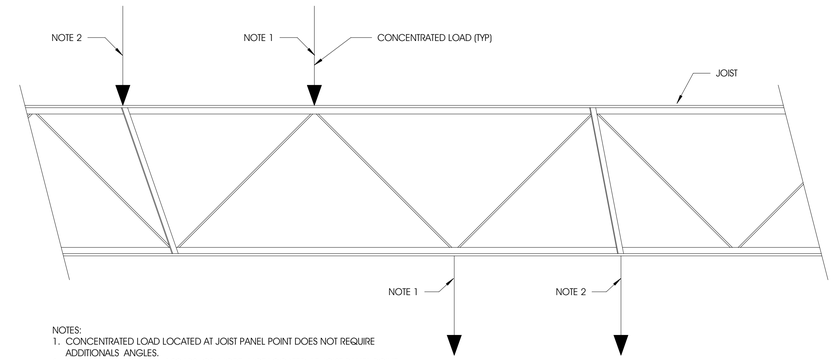
13 S3.1 PILASTER DETAIL
1" = 1'-0"



11 S3.1 JOIST BRG. AT CMU WALL
1" = 1'-0"

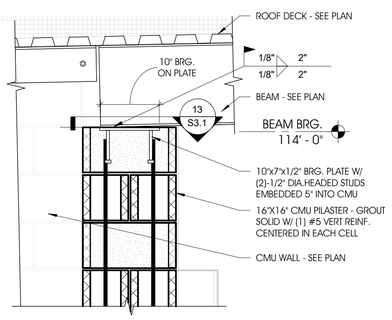


7 S3.1 JOIST BEARING DETAIL
1 1/2" = 1'-0"

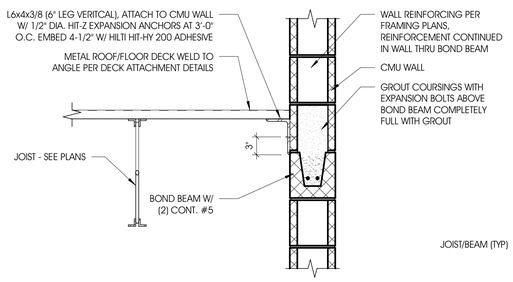


NOTES:
1. CONCENTRATED LOAD LOCATED AT JOIST PANEL POINT DOES NOT REQUIRE ADDITIONALS ANGLES.
2. CONCENTRATED LOAD, 100 LBS. OR MORE, NOT LOCATED AT JOIST PANEL POINT REQUIRES LL1x1x1/8 TO JOIST PANEL POINT AS SHOWN.

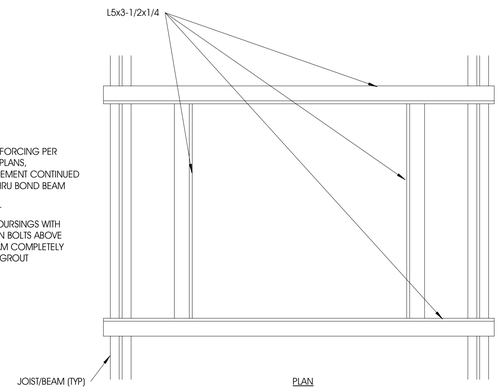
4 S3.1 JOIST CONCENTRATED LOAD
1" = 1'-0"

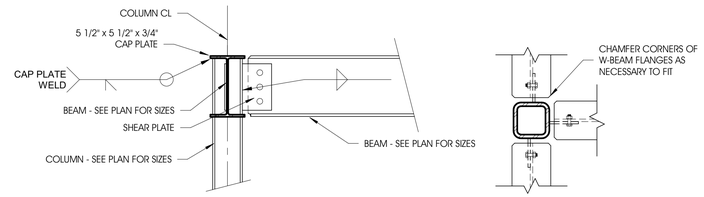


12 S3.1 BEAM BRG. AT CMU PILASTER
1" = 1'-0"

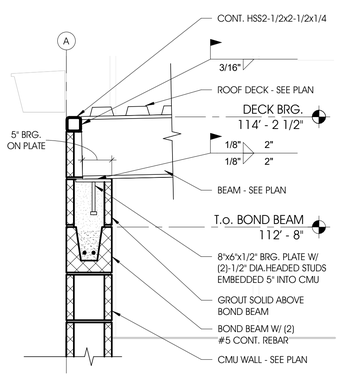


10 S3.1 SHELF ANGLE AT CMU WALL DETAIL
1" = 1'-0"

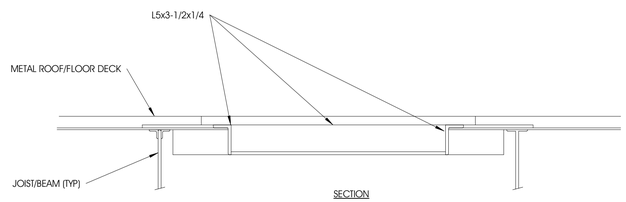




3 S3.1 TYPICAL SHEAR CONNECTION DETAIL
1" = 1'-0"

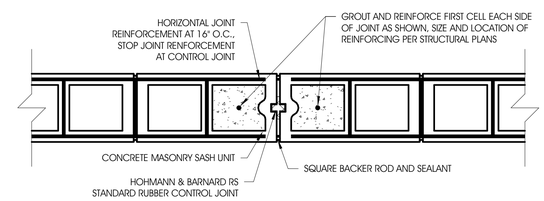


9 S3.1 BEAM BRG. AT CMU WALL
1" = 1'-0"

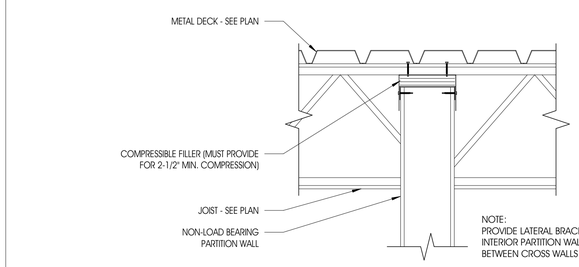


NOTES:
1. EXACT LOCATION & DIMENSIONS OF OPENINGS PROVIDED BY OWNERS
2. FRAME NOT REQUIRED FOR OPENINGS SMALLER THAN 12"x12"

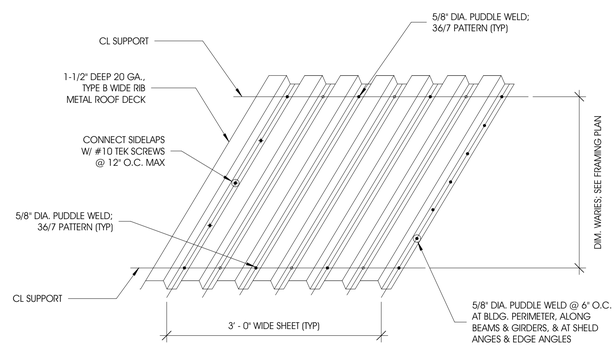
6 S3.1 DECK OPENING FRAME DETAIL
1" = 1'-0"



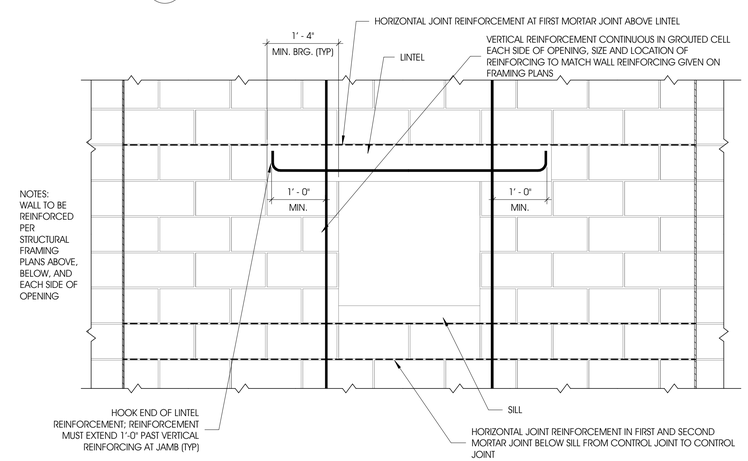
2 S3.1 TYPICAL CONTROL JOINT DETAIL
1 1/2" = 1'-0"



8 S3.1 JOIST BEARING DETAIL
1 1/2" = 1'-0"



5 S3.1 TYPICAL ROOF DECK DETAIL
1" = 1'-0"



1 S3.1 TYPICAL LINTEL BEARING DETAIL
3/4" = 1'-0"

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SHEET TITLE:
STRUCTURAL DETAILS

MODELED BY: JMO
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PM REVIEW: SFL
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DATE: 07/31/2023
SEAL: STATE OF MICHIGAN — SCOTT FRANCIS LEBLANG — ENGINEER — No. 6201067898 — LICENSED PROFESSIONAL ENGINEER
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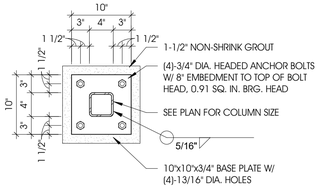
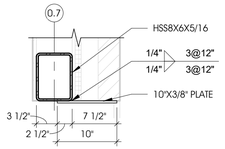
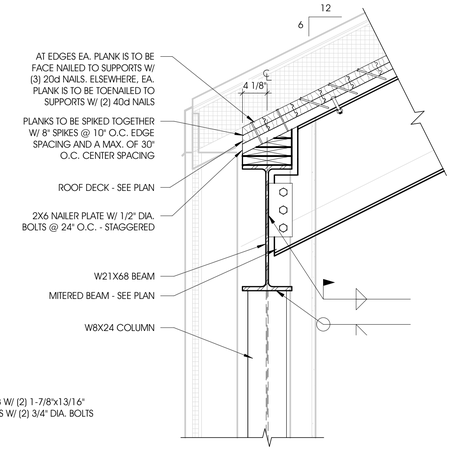


23 BASE PLATE DETAIL: C1
S3.2 1" = 1'-0"

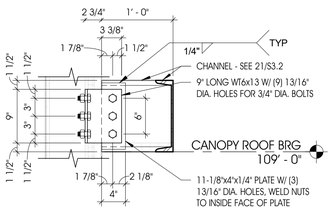


18 STRUCTURAL DETAIL
S3.2 1" = 1'-0"



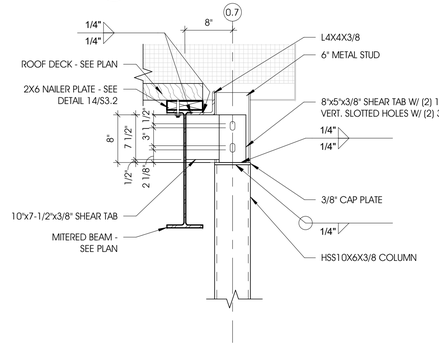
NOTE:
FABRICATOR TO DESIGN EACH BEAM CONNECTION FOR THE FOLLOWING ASD (SERVICE LOADS) REACTIONS: V=10 KIPS

14 STRUCTURAL DETAIL
S3.2 1" = 1'-0"



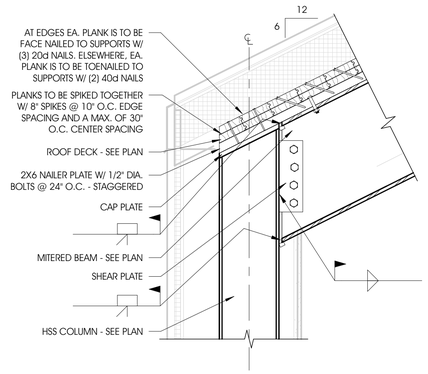
NOTE:
FABRICATOR TO DESIGN EACH BEAM CONNECTION FOR THE FOLLOWING ASD (SERVICE LOADS) REACTIONS: V=400 LB, M=200 LB-FT

22 SHADE STRUCTURE CONNECTION DETAIL
S3.2 1" = 1'-0"



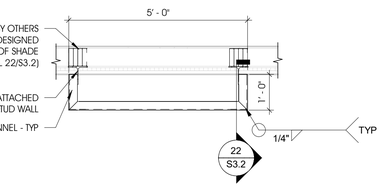
NOTE:
FABRICATOR TO DESIGN EACH BEAM CONNECTION FOR THE FOLLOWING ASD (SERVICE LOADS) REACTIONS: V=5 KIPS

17 STRUCTURAL DETAIL
S3.2 1" = 1'-0"

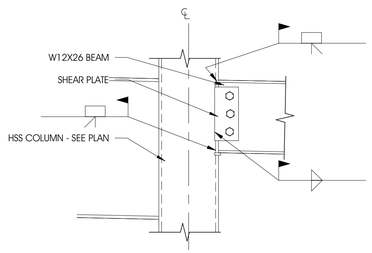


NOTE:
FABRICATOR TO DESIGN EACH BEAM CONNECTION FOR THE FOLLOWING ASD (SERVICE LOADS) REACTIONS: V=10 KIPS, M=25 K-FT

13 MOMENT CONNECTION DETAIL
S3.2 1" = 1'-0"

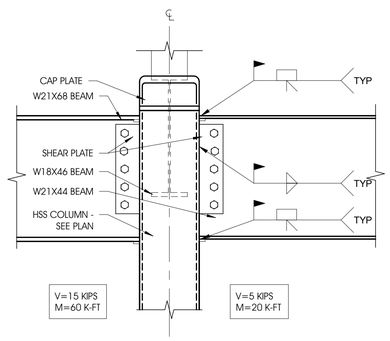


21 WINDOW SHADE STRUCTURE FRAMING PLAN
S3.2 1/2" = 1'-0"



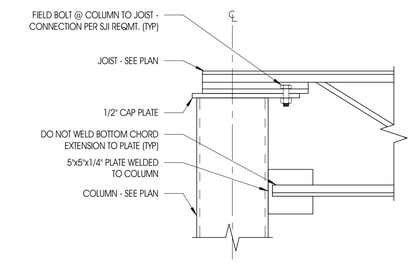
NOTE:
FABRICATOR TO DESIGN EACH BEAM CONNECTION FOR THE FOLLOWING ASD (SERVICE LOADS) REACTIONS: V=5 KIPS, M=25 K-FT

16 MOMENT CONNECTION DETAIL
S3.2 1" = 1'-0"

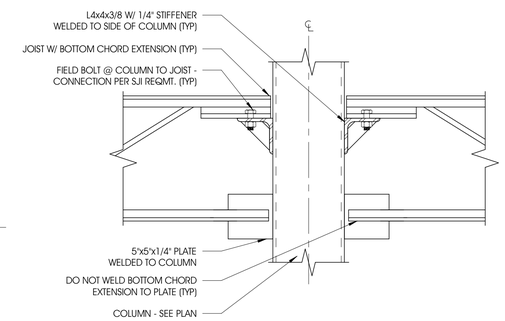


NOTE:
FABRICATOR TO DESIGN EACH BEAM CONNECTION FOR THE FOLLOWING ASD (SERVICE LOADS) REACTIONS:

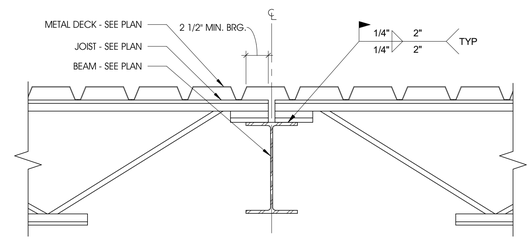
12 MOMENT CONNECTION DETAIL
S3.2 1" = 1'-0"



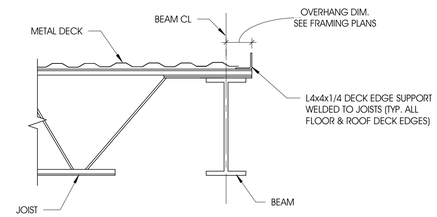
11 JOIST BEARING DETAIL
S3.2 1 1/2" = 1'-0"



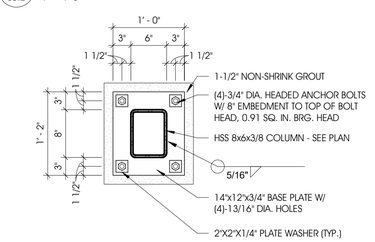
10 JOIST BEARING DETAIL
S3.2 1 1/2" = 1'-0"



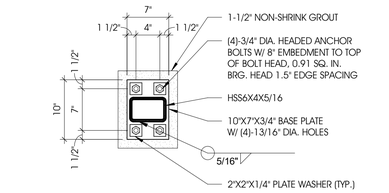
9 JOIST BEARING DETAIL
S3.2 1 1/2" = 1'-0"



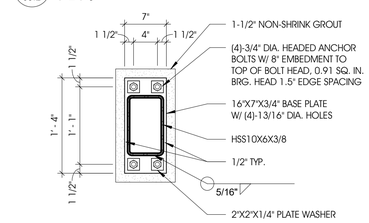
8 JOIST BEARING DETAIL
S3.2 1" = 1'-0"



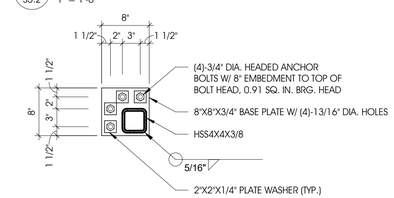
7 BASE PLATE DETAIL: C10
S3.2 1" = 1'-0"



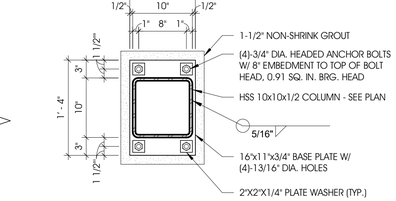
6 BASE PLATE DETAIL: C9
S3.2 1" = 1'-0"



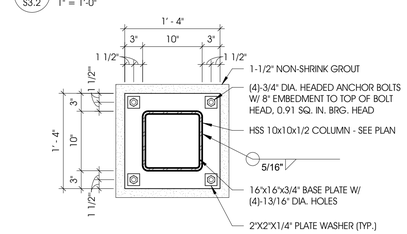
5 BASE PLATE DETAIL: C11
S3.2 1" = 1'-0"



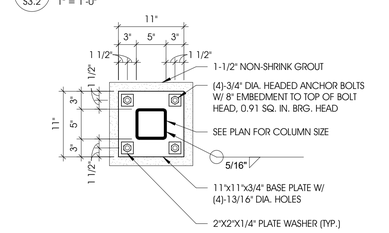
4 BASE PLATE DETAIL: C2 - C3
S3.2 1" = 1'-0"



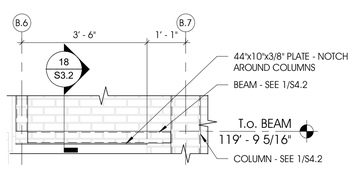
3 BASE PLATE DETAIL: C12
S3.2 1" = 1'-0"



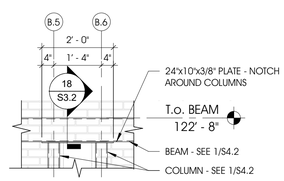
2 BASE PLATE DETAIL: C13
S3.2 1" = 1'-0"



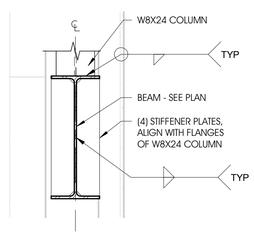
1 BASE PLATE DETAIL: C5, C8, C14
S3.2 1" = 1'-0"



20 BRICK LINTEL DETAIL
S3.2 1/2" = 1'-0"



19 BRICK LINTEL DETAIL
S3.2 1/2" = 1'-0"



NOTE:
FABRICATOR TO DESIGN EACH BEAM CONNECTION FOR THE FOLLOWING ASD (SERVICE LOADS) REACTIONS: V=5 KIPS, M=15 K-FT

15 MOMENT CONNECTION DETAIL
S3.2 1" = 1'-0"

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49120

STRUCTURAL DETAILS

SHEET TITLE:

MODELED BY: JMO
DESIGNED BY: JMO
PM REVIEW: SFL
QA/QC REVIEW: SFL
DATE: 07/31/2023
SEAL: STATE OF MICHIGAN — SCOTT FRANCIS LEBLANG — ENGINEER — No. 6201067898 — LICENSED PROFESSIONAL ENGINEER
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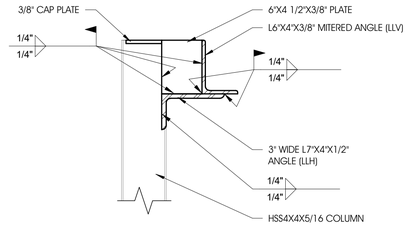
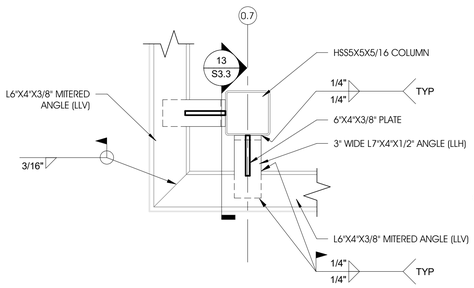
SHEET NO.
S3.2

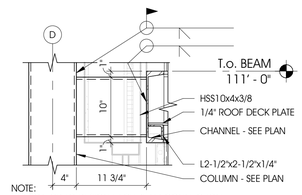


13 S3.3 CORNER WINDOW FRAME DETAIL
1 1/2" = 1'-0"



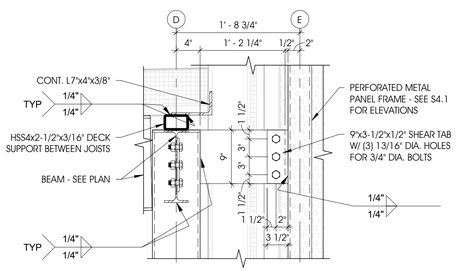
NOTE: L6"X4"X3/8" TO BEAR A MINIMUM OF 8" ON THE BRICK VENEER

12 S3.3 CORNER WINDOW FRAMING
1 1/2" = 1'-0"

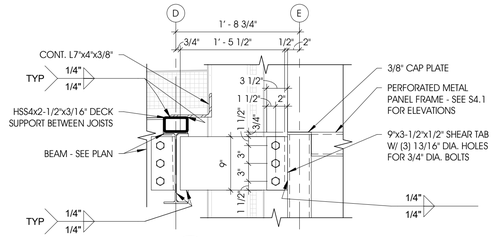


NOTE:
FABRICATOR TO DESIGN EACH BEAM CONNECTION FOR THE FOLLOWING ASD (SERVICE LOADS)
REACTIONS: V=10 KIPS, M=25 K-FT

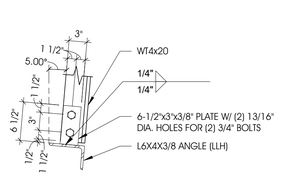
11 S3.3 STRUCTURAL DETAIL
1" = 1'-0"



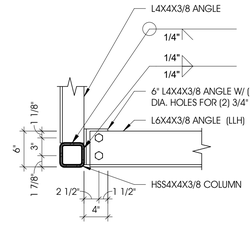
10 S3.3 STRUCTURAL DETAIL
1" = 1'-0"



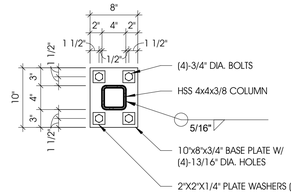
9 S3.3 STRUCTURAL DETAIL
1" = 1'-0"



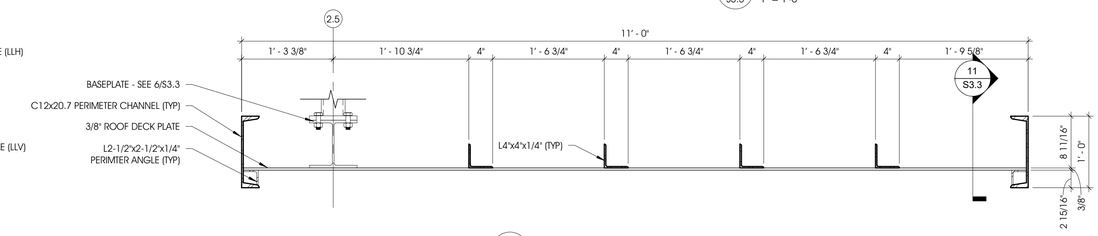
8 S3.3 STRUCTURAL DETAIL
1" = 1'-0"



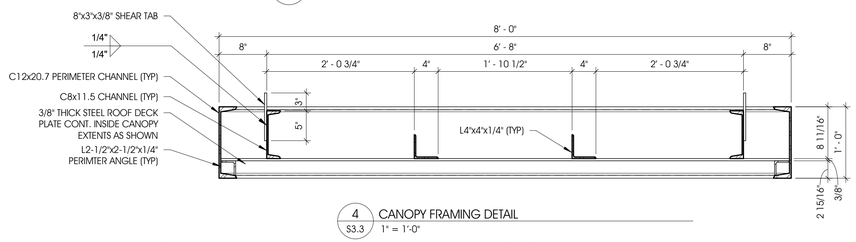
7 S3.3 STRUCTURAL DETAIL
1" = 1'-0"



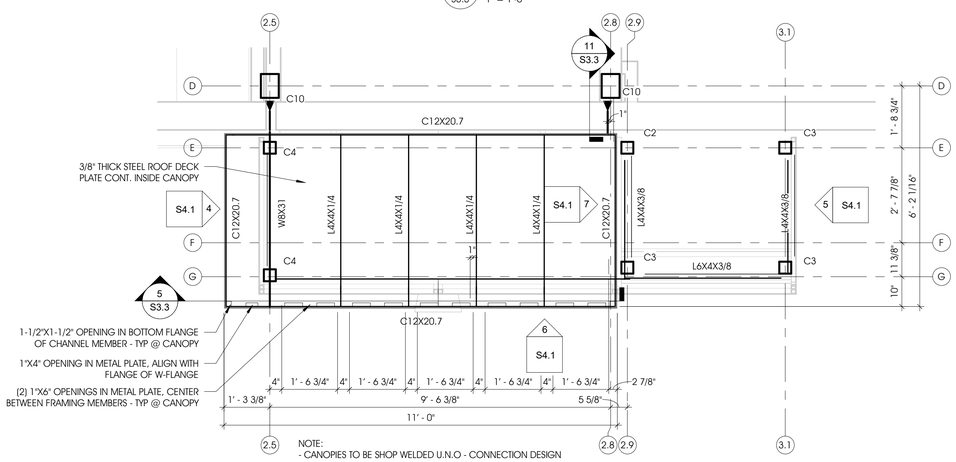
6 S3.3 BASE PLATE DETAIL: C4
1" = 1'-0"



5 S3.3 CANOPY FRAMING PLAN
1" = 1'-0"

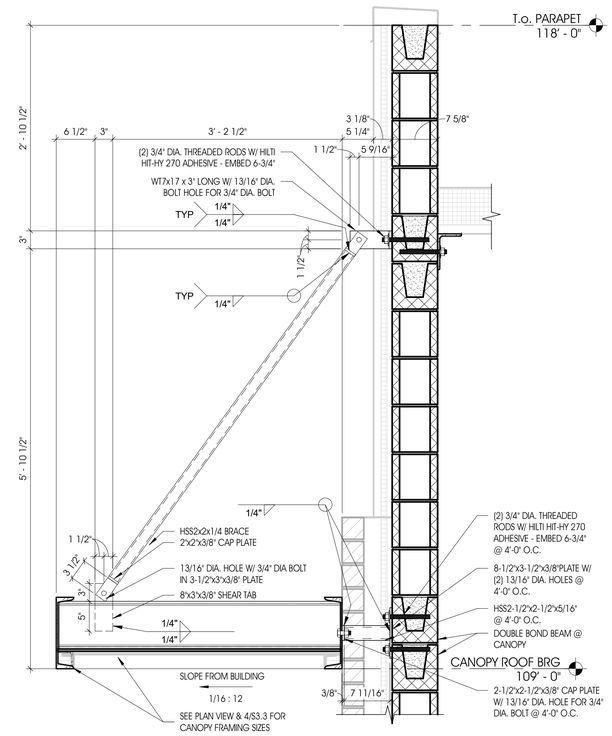


4 S3.3 CANOPY FRAMING DETAIL
1" = 1'-0"

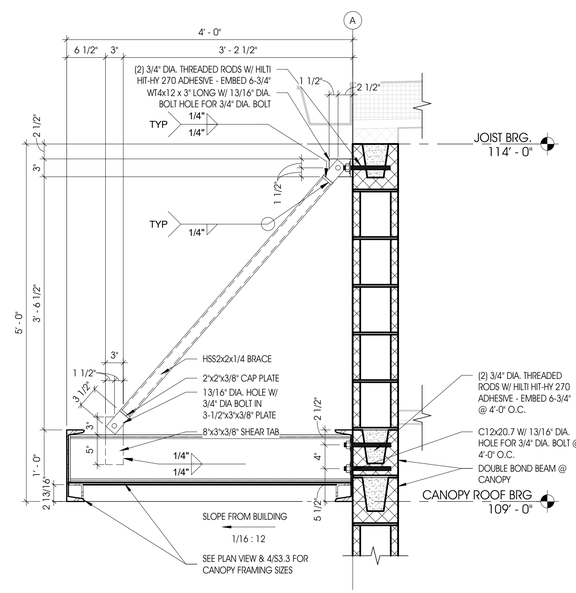


NOTE:
- CANOPIES TO BE SHOP WELDED U.N.O - CONNECTION DESIGN BY STEEL MANUF.
- ALL EXTERIOR CANOPY FRAMING TO BE HOT DIP GALVANIZED, SHOP PRIMED, AND PAINTED PER SPECIFICATIONS.

3 S3.3 5'-0" CANOPY FRAMING PLAN
1/2" = 1'-0"



2 S3.3 CANOPY FRAMING DETAIL
1" = 1'-0"



1 S3.3 CANOPY FRAMING DETAIL
1" = 1'-0"

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1707 MILLER DR. NILES, MI 49120

STRUCTURAL DETAILS

SHEET TITLE:

MODELED BY: JMO
DESIGNED BY: JMO
PM REVIEW: SFL
QA/QC REVIEW: SFL
DATE: 07/31/2023
SEAL: STATE OF MICHIGAN — SCOTT FRANCIS LEBLANG — ENGINEER — No. 6201067898 — LICENSED PROFESSIONAL ENGINEER
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SHEET NO. S3.3

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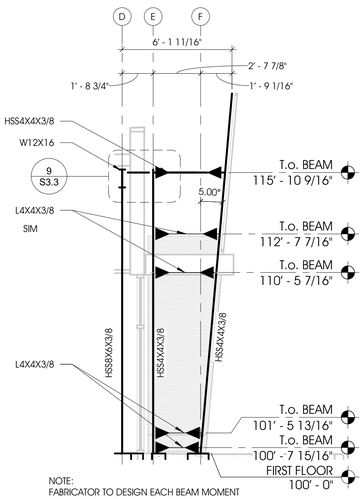
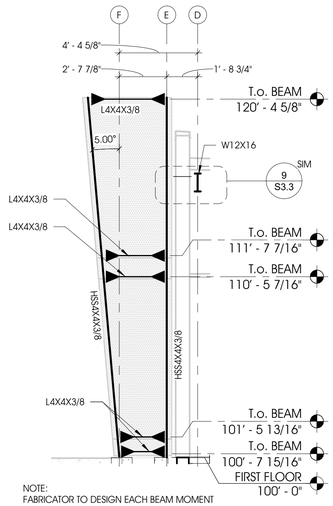


NOTE:
FABRICATOR TO DESIGN EACH BEAM MOMENT CONNECTION FOR THE FOLLOWING ASD (SERVICE LOADS)
REACTIONS: V=5 KIPS, M=5 K-FT

PERFORATED METAL FRAMES TO BE SHOP WELDED U.N.O - CONNECTION DESIGN BY STEEL MANUF.

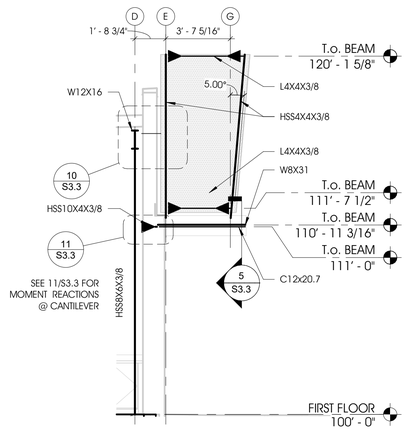
7 / S4.1 ENTRANCE ELEVATION - GRID 2.8
1/4" = 1'-0"



NOTE:
FABRICATOR TO DESIGN EACH BEAM MOMENT CONNECTION FOR THE FOLLOWING ASD (SERVICE LOADS)
REACTIONS: V=500 LBS, M=500 LB-FT

PERFORATED METAL FRAMES TO BE SHOP WELDED U.N.O - CONNECTION DESIGN BY STEEL MANUF.

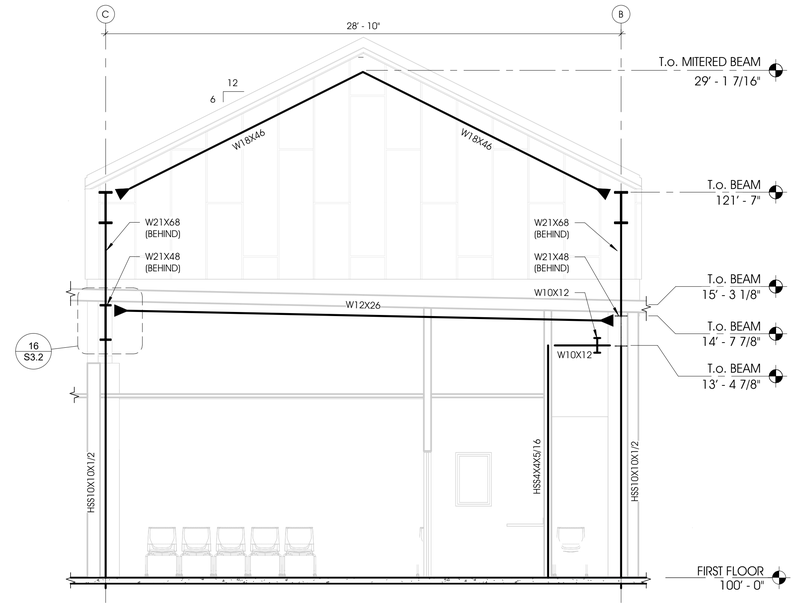
5 / S4.1 ENTRANCE ELEVATION - GRID 3.1
1/4" = 1'-0"



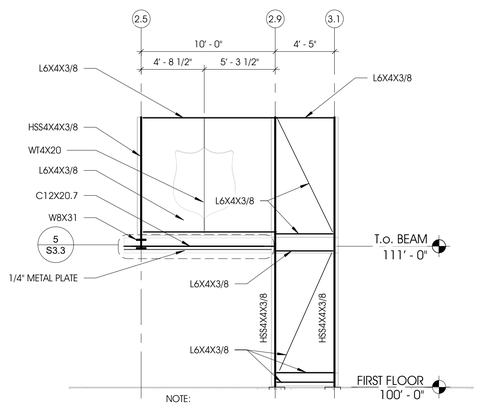
NOTE:
FABRICATOR TO DESIGN EACH BEAM MOMENT CONNECTION FOR THE FOLLOWING ASD (SERVICE LOADS)
REACTIONS: V=5 KIPS, M=5 K-FT

PERFORATED METAL FRAMES TO BE SHOP WELDED U.N.O - CONNECTION DESIGN BY STEEL MANUF.

4 / S4.1 ENTRANCE ELEVATION - GRID 2.5
1/4" = 1'-0"



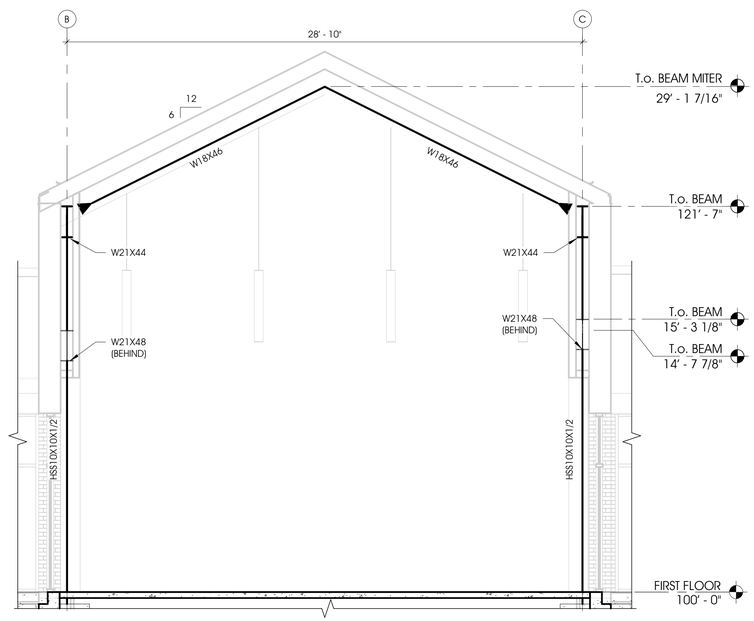
2 / S4.1 CHAPEL ELEVATION PT.2
1/4" = 1'-0"



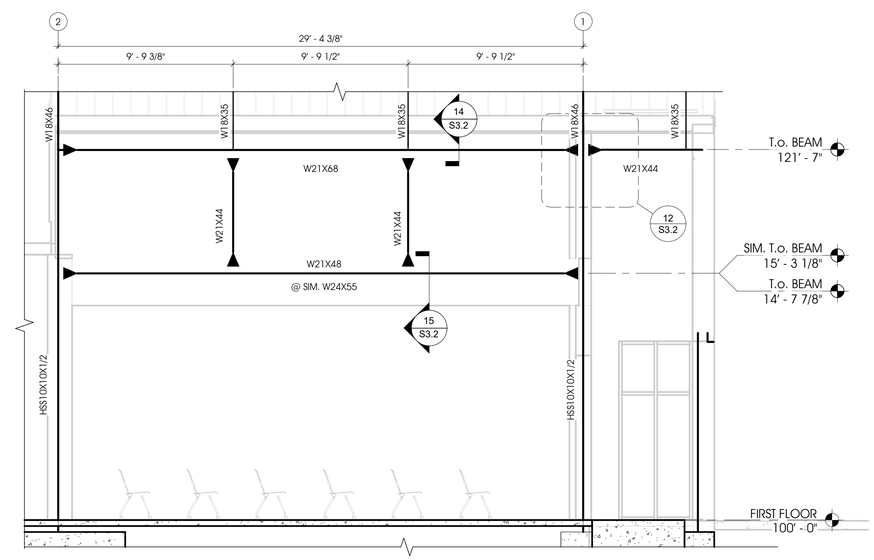
NOTE:
SEE ARCH. PLANS FOR ELEVATIONS OF L6X4X3/8 ANGLES

SHEAR REACTIONS FOR ANGLE AND WT BEAMS IS 500 LBS

6 / S4.1 ENTRANCE ELEVATION FRONT
3/16" = 1'-0"



3 / S4.1 CHAPEL ELEVATION PT.3
1/4" = 1'-0"



1 / S4.1 CHAPEL ELEVATION PT.1
1/4" = 1'-0"

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49120

STRUCTURAL ELEVATIONS

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MODELED BY: JMO
DESIGNED BY: JMO
PM REVIEW: SFL
QA/QC REVIEW: SFL
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SCOTT FRANCIS LEBLANG
ENGINEER
No. 6201067898
LICENSED PROFESSIONAL ENGINEER
SIGNATURE:
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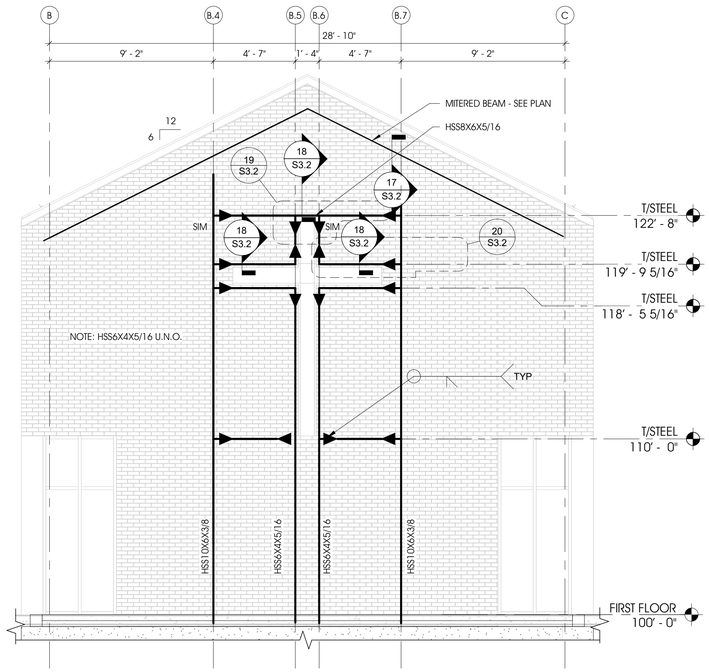
SHEET NO.
S4.1



NOTE:
METAL FRAME TO BE SHOP WELDED U.N.O - CONNECTION DESIGN BY STEEL MANUF.

1 / S4.2 BRICK CROSS FRAME
1/4" = 1'-0"

NO.	REVISION DESCRIPTION	BY	DATE

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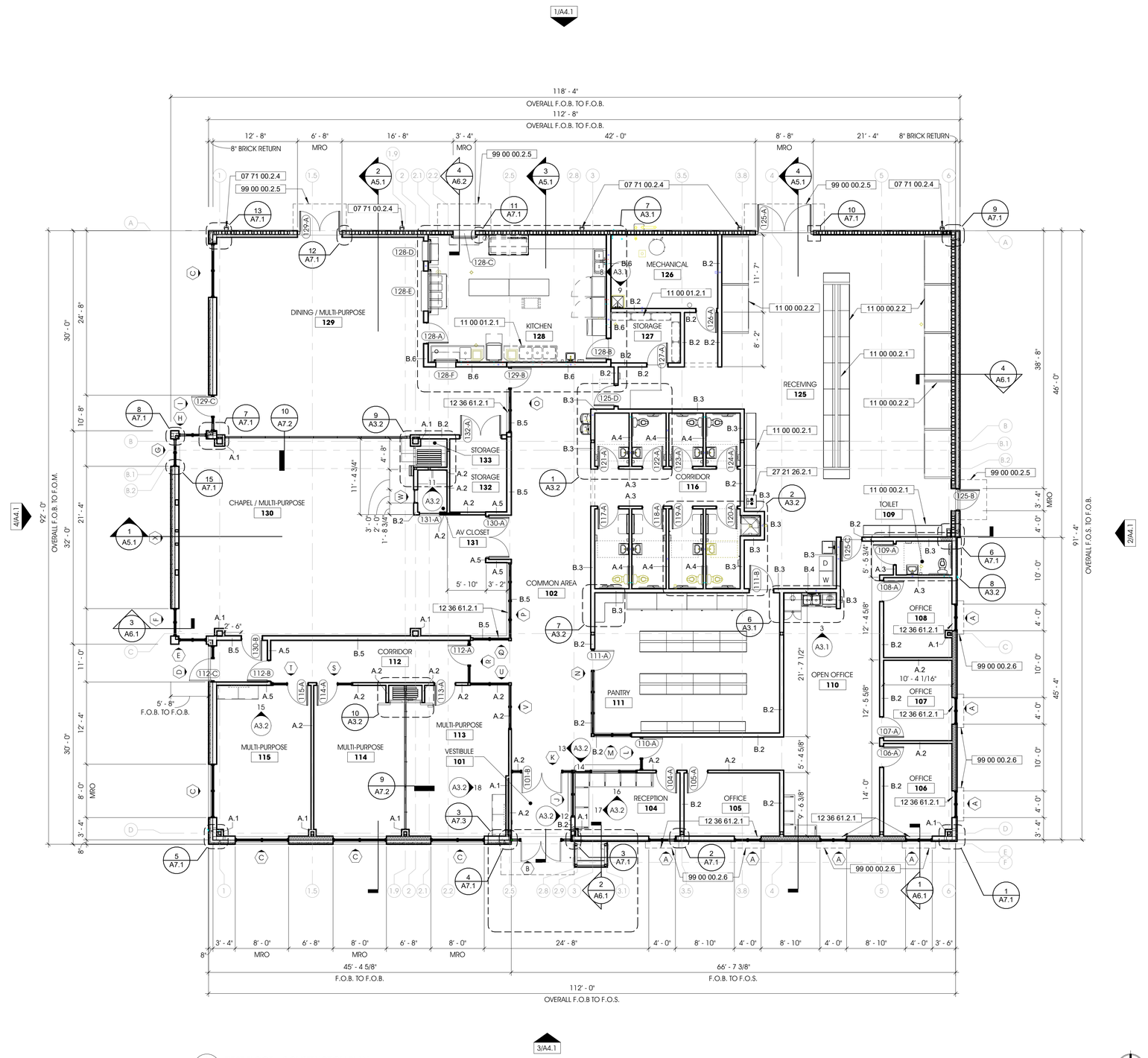
S4.2



1 A1.1 FIRST FLOOR - CONSTRUCTION PLAN
1/8" = 1'-0"

GENERAL NOTES - FLOOR PLAN

A. DO NOT SCALE DRAWINGS - USE WRITTEN DIMENSIONS PROVIDED ONLY

B. ALL SPECIFIED ITEMS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR AS COMPLETE SYSTEMS WITH ALL ACCESSORY ITEMS REQUIRED FOR A COMPLETE INSTALLATION. GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ALL TRADES, CONSTRUCTION TYPES, ETC…TO PREVENT EXCLUSION OR DUPLICATION. GENERAL CONTRACTORS BIDS SHALL BE ALL INCLUSIVE.

C. REFER TO SHEET T1.2 FOR WALL TYPES

D. REFER TO SHEET A8.1 ROOM FINISH SCHEDULE FOR INTERIOR FINISH MATERIALS.

E. REFER TO SHEET A8.2 FOR DOOR AND FRAME ELEVATIONS.

F. REFER TO SHEET A8.3 FOR WINDOW AND STOREFRONT ELEVATIONS

G. REFER TO STRUCTURAL DRAWINGS & SPECIFICATIONS FOR ADDITIONAL INFORMATION

H. REFER TO MEP DRAWING & SPECIFICATIONS FOR ADDITIONAL INFORMATION

I. REFER TO EQUIPMENT PLAN FOR ADDITIONAL INFORMATION

KEYNOTE LEGEND

Key Value	Keynote Text
07 71 00.2.4	ALUMINUM DOWNSPOUT SHALL BE HEAVY DUTY, SMOOTH, 4" x 4" RECTANGULAR SHAPE. COLOR SHALL BE DARK BRONZE.
11 00 00.2.1	CONTRACTOR SHALL PROVIDE NEW (48"W x 18"D x 84"H) Z-BEAM SHELVING FROM "WAREHOUSE RACK & SHELF" - rackandshelf.com (OR EQUAL)
11 00 00.2.2	CONTRACTOR SHALL PROVIDE NEW (96"W x 42"D x 96"H) PALLET RACKING FROM "WAREHOUSE RACK & SHELF" - rackandshelf.com (OR EQUAL)
11 00 01.2.1	OWNER SUPPLIED/CONTRACTOR INSTALLED EQUIPMENT AND/OR FIXTURES
12 36 61.2.1	WINDOW STOOL SHALL BE SOLID SURFACE - REFER TO SHEET A8.1
27 21 26.2.1	DATA COMMUNICATIONS 24" X 22" IT CABINET
99 00 00.2.5	DOOR CANOPY - REFER TO DETAILS ON SHEET A2.1
99 00 00.2.6	WINDOW CANOPY - REFER TO DETAIL 4/A2.1

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PROJECT:
DOING THE MOST GOOD
NILES FACILITY
1707 MILLER DR. NILES, MI 49120

SHEET TITLE:
FIRST FLOOR - CONSTRUCTION PLAN

MODELED BY: JCA, AND
DESIGNED BY: ARD
PM REVIEW: ARD
QA/QC REVIEW: MDN
DATE: 07/31/2023
SEAL: STATE OF MICHIGAN ARVIN RIC DELACRUZ ARCHITECT No. 1301060203 LICENSED ARCHITECT
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SHEET NO. A1.1

NO.	REVISION DESCRIPTION	BY	DATE

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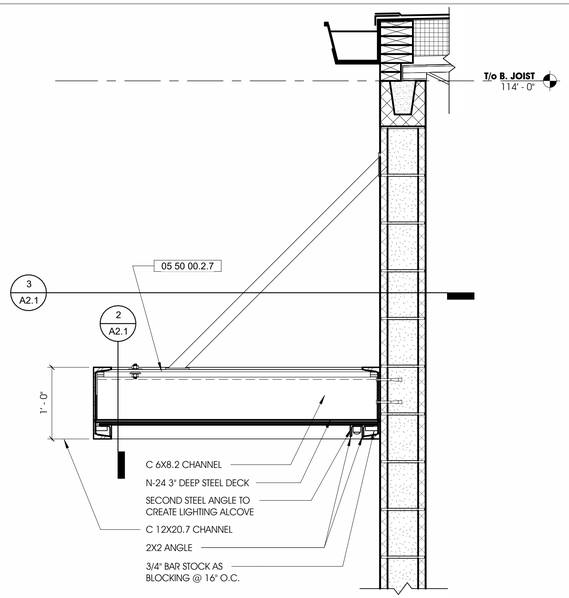
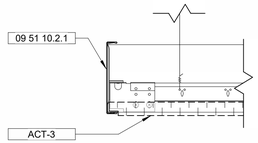
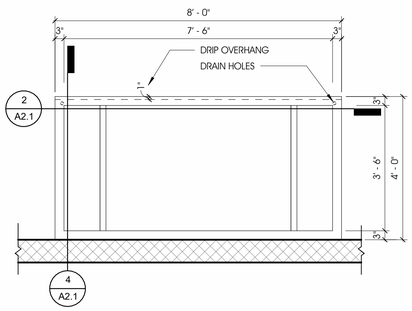


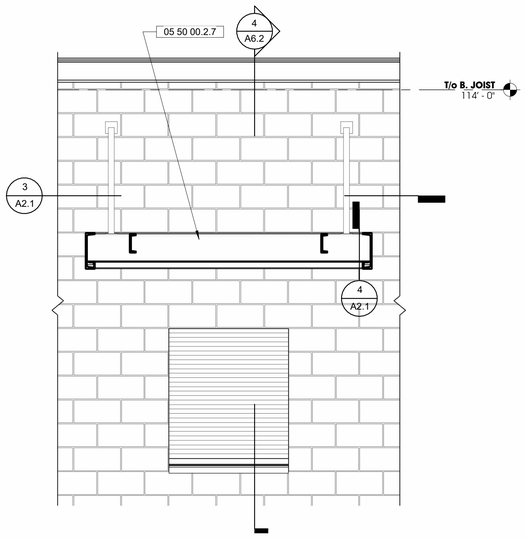
4 A2.1 CANOPY WALL SECTION
1" = 1'-0"



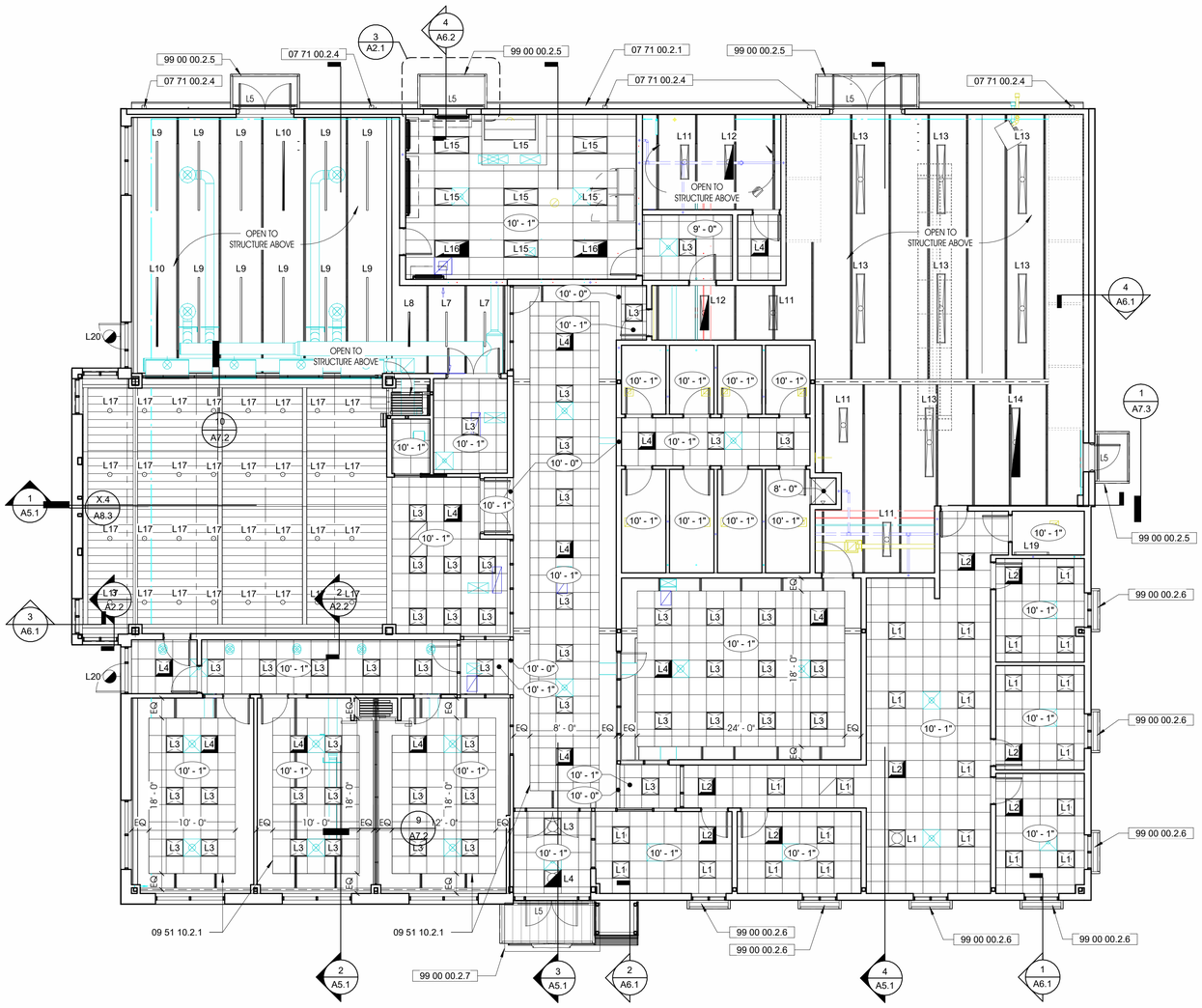
5 A2.1 COMPASSO CEILING SYSTEM DETAIL
3" = 1'-0"



3 A2.1 CANOPY PLAN VIEW
1/2" = 1'-0"



2 A2.1 CANOPY ELEVATION
1/2" = 1'-0"



1 A2.1 REFLECTED CEILING PLAN - FIRST FLOOR
1/8" = 1'-0"

GENERAL NOTES - REFLECTED CEILING PLAN

A. REFER TO ELECTRICAL DRAWINGS FOR ADDTIONAL INFORMATION.

B. PROVIDE ROLLER SHADE AT ALL EXTERIOR WINDOWS.

C. PROVIDE USG COMPASSO TRIM @ ALL LOCATIONS WHERE LIG CEILING IS NOT CONTINUOUS TO PERIMETER WALLS. REFER TO DETAIL 1/A2.1

D. PROVIDE SOUND ATTENUATION BATT INSULATION ABOVE CEILINGS TO ABSORB SOUND, TYP. @ OFFICE / ADMINISTRATION SPACES.

KEYNOTE LEGEND

Key Value	Keynote Text
05 50 00.2.7	CUSTOM STEEL AWNINGS & CANOPIES, REFER TO STRUCTURAL
07 71 00.2.1	ALUMINUM GUTTER SHALL BE HEAVY DUTY. PROVIDE ADDITIONAL 1/8"x1 1/2" SUPPORT BRACKETS AT 36" O.C. GUTTER PROFILE SHALL BE 9"W x 7"D STYLE 'A' PER SMACNA ARCHITECTURAL SHEET METAL MANUAL. GUTTER AND SUPPORT BRACKET COLOR SHALL BE DARK BRONZE.
07 71 00.2.4	ALUMINUM DOWNSPOUT SHALL BE HEAVY DUTY, SMOOTH, 4" x 4" RECTANGULAR SHAPE. COLOR SHALL BE DARK BRONZE.
09 51 10.2.1	
99 00 00.2.5	DOOR CANOPY - REFER TO DETAILS ON SHEET A2.1
99 00 00.2.6	WINDOW CANOPY - REFER TO DETAIL 4/A2.1
99 00 00.2.7	MAIN ENTRY CANOPY & SCREENWALL - REFER TO SHEET A7.3

CEILING FINISHES

SUSPENDED ACOUSTIC TILE: 24"X24"

SUSPENDED ACOUSTIC TILE: 24"X48"

HARD CEILING: 5/8" GYPSUM BOARD

PLANKS

L1	2X2 LED (BASIS OF DESIGN = LITHONIA BLT - 3000K @ OFFICE AREAS)
L2	(L1 EM) 2X2 LED (BASIS OF DESIGN = LITHONIA BLT - 3000K @ OFFICE AREAS)
L3	2X2 LED (BASIS OF DESIGN = LITHONIA BLT - 3500K @ COMMON AREAS)
L4	(L3 EM) 2X2 LED (BASIS OF DESIGN = LITHONIA BLT - 3500K @ COMMON AREAS)
L5	EXTERIOR LED STRIP LIGHTS
L6	(L5 EM) EXTERIOR LED STRIP LIGHTS
L7	Suspended 2"W x 4'L Linear LED
L8	(L7 EM) Suspended 2"W x 4'L Linear LED
L9	Suspended 2"W x 8'L Linear LED
L10	(L9 EM) Suspended 2"W x 8'L Linear LED
L11	Suspended 1x4 Linear LED Utility Light @ 10' - 1"
L12	(L11 EM) Suspended 1x4 Linear LED Utility Light @ 10' - 1"
L13	Suspended 1x8 Linear LED Utility Light @ 10' - 1"
L14	(L13 EM) Suspended 1x8 Linear LED Utility Light @ 10' - 1"
L15	2X4 LED (BASIS OF DESIGN = LITHONIA BLT - 3500K @ COMMON AREAS)
L16	(L15 EM) 2X4 LED (BASIS OF DESIGN = LITHONIA BLT - 3500K @ COMMON AREAS)
L17	6D 48L HPC PENDANT
L18	(L17 EM) 6D 48L HPC PENDANT
L19	4"W x 4'L Wall Mount LED
L20	EXT. EM EXIT LIGHT

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PROJECT:
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1707 MILLER DR. NILES, MI 49120

SHEET TITLE:
FIRST FLOOR - REFLECTED CEILING PLAN

MODELED BY: JPA, AND
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PM REVIEW: ARD
QA/QC REVIEW: MDN
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SHEET NO. A2.1

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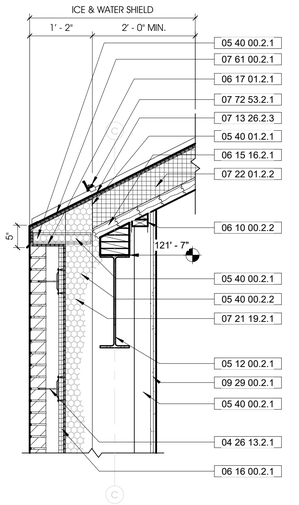
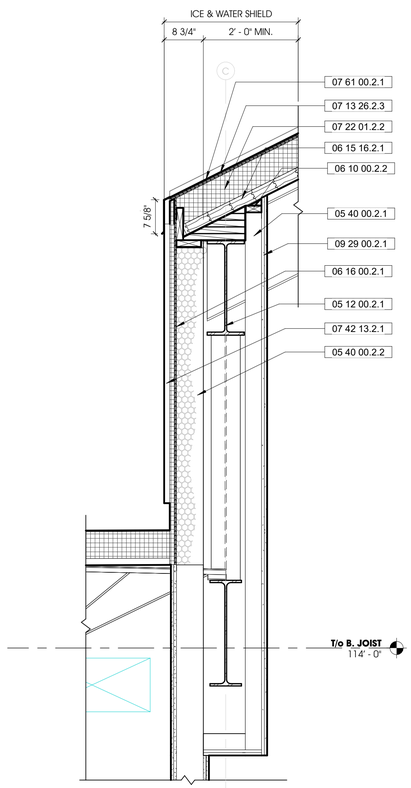
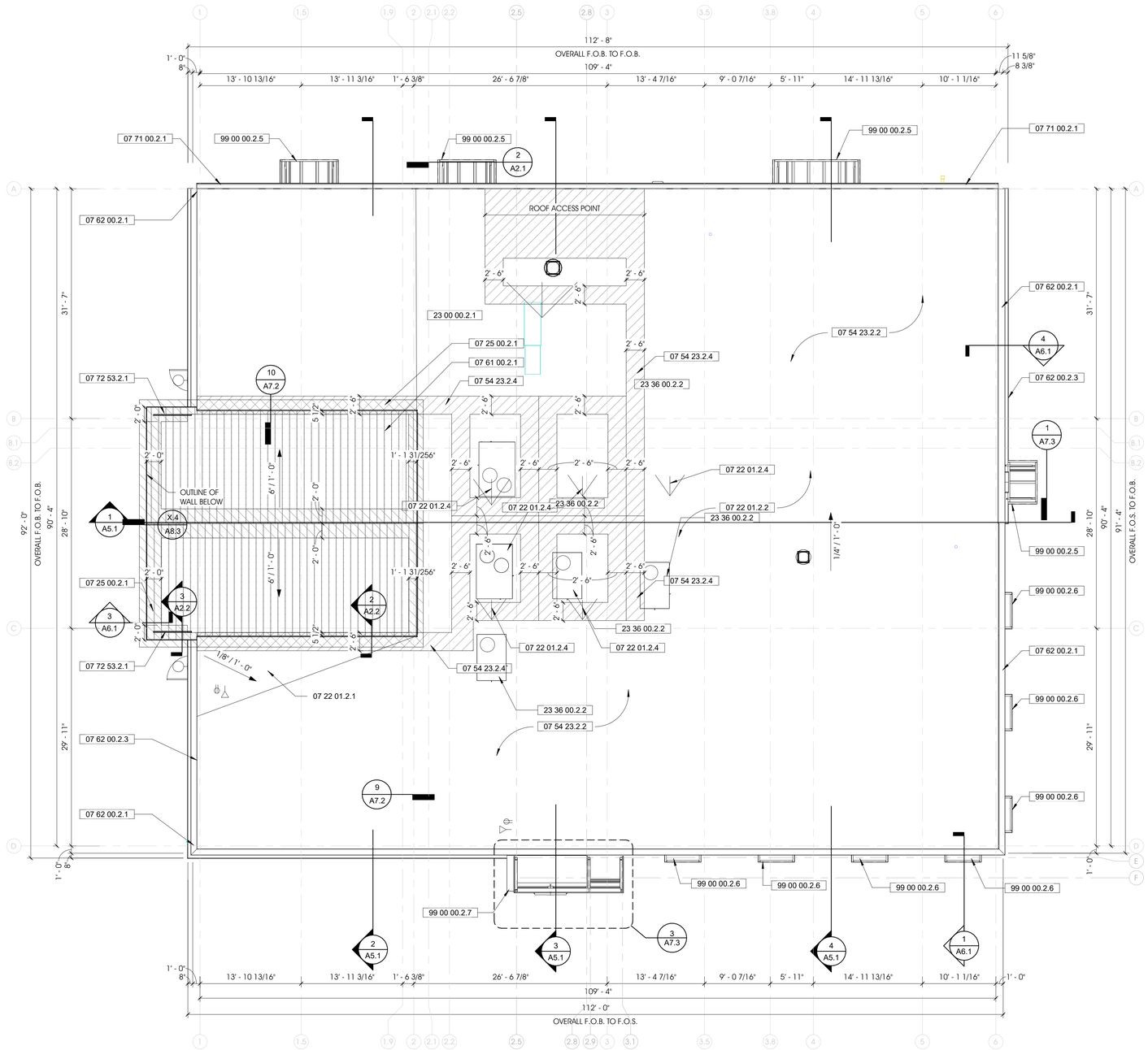


3 A2.2 Detail @ GABLE ROOF EAVE (BRICK)
3/4" = 1'-0"



2 A2.2 Detail @ GABLE ROOF EAVE (MTL PANEL)
3/4" = 1'-0"



1 A2.2 CONSTRUCTION PLAN - ROOF
1/8" = 1'-0"

GENERAL NOTES - ROOF PLAN

A. ALL MATERIALS SHALL BE INSTALLED AS REQUIRED BY MANUFACTURERS WRITTEN REQUIREMENTS.

B. PROVIDE CRICKETS BEHIND ALL MECHANICAL EQUIPMENT CURBS, ETC.

C. MINIMUM SLOP AT ALL CRICKET SHALL BE 1/4" PER FOOT. DO NOT SCALE PLANS FOR CRICKET REQUIREMENTS.

D. PROVIDE CURBS AND FLASHING AT ANY EQUIPMENT NOT PROVIDED WITH PRE-MANUFACTURED CURBS.

E. SEPARATE ALL DISSIMILAR METALS WITH BITUMINOUS COATINGS OR OTHER METHODS ACCEPTABLE TO THE ARCHITECT.

F. FLASHING DETAILS SHALL BE IN STRICT COMPLIANCE APPROVED ROOFING MANUFACTURES STANDARDS FOR APPLICATION AND SHALL BE FABRICATED IN ACCORDANCE WITH THE LATEST EDITION OF THE "SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA) TECHNICAL MANUAL.

G. PROVIDE FLASHING PER ROOF MANUFACTURES STANDARD DETAILS AT ALL ELECTRICAL CONDUIT, HVAC LINES, ROOF PENETRATIONS, ETC..

H. CONTRACTOR AND ALL SUBTRADES SHALL EXERCISE THE NECESSARY CARE TO KEEP CLEAR OF DEBRIS AND LIMIT TRAFFIC AND PREVENT DAMAGE TO THE ROOF MEMBRANE.

I. REFER TO CIVIL DRAWINGS FOR STORMWATER MANAGEMENT DETAILS

J. PROVIDE WALKWAY PADS AT EACH MECHANICAL UNIT & ROOF ACCESS POINT.

KEYNOTE LEGEND

Key Value	Keynote Text
04 26 13.2.1	BRICK - RUNNING BOND - SHALL BE BELDEN 'BOYSTOWN MATT' (OR EQUAL) - PROVIDE HECKMAN TRIANGULAR TIES @ 24 O.C. (HORIZ) AND 16" O.C. (VERT). PROVIDE HORIZONTAL LADDER REINFORCING AT 16" O.C. AND AT PERIMETER OF ALL OPENINGS. PROVIDE MORTARNET CAVITY WALL DRAINAGE SYSTEM, STAINLESS STEEL FLASHING, AND CELLULAR WEEP VENTS AT 24" O.C. LOCATED AT TOP OF WALL, BOTTOM OF WALL, ABOVE ALL SHELF ANGLES AND LINTELS AND BELOW ALL WINDOW SILLS. PROVIDE CONTROL JOINTS (HORIZ) AT ALL SHELF ANGLES AND (VERT) AT BOTH SIDES OF ALL OPENING (FULL HEIGHT), BETWEEN DISSIMILAR MATERIALS AND OTHERWISE EQUALLY SPACED PER IMI WRITTEN REQUIRMENTS (U.N.O.)"
05 12 00.2.1	STEEL BEAM - REFER TO STRUTURAL
05 40 00.2.1	3-5/8" MTL STUD
05 40 00.2.2	6" MTL STUD
05 40 01.2.1	CUSTOME METAL TRACK
06 10 00.2.2	TREATED WOOD BLOCKING SHALL BE PROVIDED AT ALL LOCATIONS EXPOSED TO MOISTURE. EXTERIOR BUILDING ENVELOPE, ADJACENT TO CONCRETE OR MASONRY, AND AS OTHERWISE REQUIRED.
06 15 16.2.1	3" x 6" DOUBLE T&G WOOD ROOF DECKING SHALL BE EXPOSED. FINISH SHALL BE SMOOTH AND FREE OF MANUFACTURER STAMPS AND MARKINGS. PROVIDE STAIN & VARNISH.
06 16 00.2.1	ZIP R-6 INSULATED WALL SHEATHING AND WEATHER BARRIER SYSTEM. PROVIDE ZIP SYSTEM TAPE AT ALL SEAMS AND BETWEEN ROOF AND WALL SHEATHING (TYP) FOR A COMPLETE WEATHER BARRIER SYSTEM BY HUBER ENGINEERED WOODS, www.huberwood.com, 1-800-933-9220
06 17 01.2.1	3/4" PLYWOOD SHEATHING
07 13 26.2.3	ZIP SYSTEM FLASHING TAPE SHALL BE CONTINUOUS AROUND BLOCKING TO PROVIDE CONTINUOUS WEATHER BARRIER
07 21 19.2.1	3" (MIN) CLOSED CELL SPRAY POLYURETHANE FOAM INSULATION AND VAPOR BARRIER SYSTEM
07 22 01.2.1	TAPERED RIGID INSULATION - POLY ISO
07 22 01.2.2	POLY ISO INSULATION AND COVER BOARD
07 22 01.2.4	CRICKET
07 25 00.2.1	SILL SEALER GASKET SHALL BE CONTINUOUS AT STUD WALLS AND STOREFRONT (TYP)
07 42 13.2.1	METAL WALL PANELS SHALL BE DRI-DESIGN PAINTED ALUMINUM. PANELS WIDTH SHALL BE 2FT (U.N.O.). PANEL LENGTH SHALL BE 3FT, 6FT, AND 9FT w/ 1/3RD STAGGARD PATTERN. COLOR SHALL BE RANDOM PATTERN OF (4) CUSTOM SHADES OF RED TO MATCH ARCHITECT SAMPLES
07 54 23.2.2	TPO ROOFING
07 54 23.2.4	WALKWAY MAT
07 61 00.2.1	PAC-CLAD TITE-LOC-PLUS STANDING SEAM METAL ROOF - COLOR SHALL BE MIDNIGHT BRONZE
07 62 00.2.1	FASCIA, TRIM, COPING, ETC… SHALL BE .080 ALUMINUM. PROVIDE BUTT SEAMS WITH BACK LIP PLATES (10 FT MAX LENGTH). CORNERS SHALL BE FULLY WELDED WITH 24" (MIN) RETURN. ALL FASTENERS SHALL BE CONCEALED. COLOR SHALL MATCH ADJACENT WALL FINISH (U.N.O.).
07 62 00.2.3	THROUGH WALL FLASHING
07 71 00.2.1	ALUMINUM GUTTER SHALL BE HEAVY DUTY. PROVIDE ADDITIONAL 1/8"x1 1/2" SUPPORT BRACKETS AT 36" O.C. GUTTER PROFILE SHALL BE 9"W x 7"D STYLE 'A' PER SMACNA ARCHITECTURAL SHEET METAL MANUAL. GUTTER AND SUPPORT BRACKET COLOR SHALL BE DARK BRONZE.
07 72 53.2.1	PAC-CLAD S-5 COLORGARD SNOW RETENTION SYSTEM
09 29 00.2.1	GYPSUM WALL BOARD SHALL BE 5/8" (TYP). PROVIDE TYPE 'WR' AT ALL TOILET ROOM AND WET WALL LOCATIONS. ALL OTHER LOCATIONS SHALL BE TYPE 'X' (TYP). PROVIDE MUDDABLE CORNER BEAD AND 'J' TRIM AT ALL EXPOSED DRYWALL END AND OPENING LOCATIONS. DRYWALL FINISH SHALL BE LEVEL 4 (TYP). PROVIDE CONTROL JOINTS AT 30FT O.C. (MAX) EQUALLY SPACED. PROVIDE CONTROL JOINTS AT ALL DOOR AND WINDOW LOCATIONS. WALLS SCHEDULED TO RECEIVE TILE FINISH SHALL BE CEMENT BACKER BOARD.
23 00 00.2.1	Heating, Ventilating, and Air-Conditioning (HVAC)
23 36 00.2.2	AIR TERMINAL UNITS - REFER TO MEP DRAWINGS
99 00 00.2.5	DOOR CANOPY - REFER TO DETAILS ON SHEET A2.1
99 00 00.2.6	WINDOW CANOPY - REFER TO DETAIL 4/A2.1
99 00 00.2.7	MAIN ENTRY CANOPY & SCREENWALL - REFER TO SHEET A7.3

ROOF LEGEND

STANDING SEAM METAL ROOF

ICE & WATER SHIELD

WALKWAY MAT

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49120

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ROOF PLAN

MODELED BY: JCA, AND

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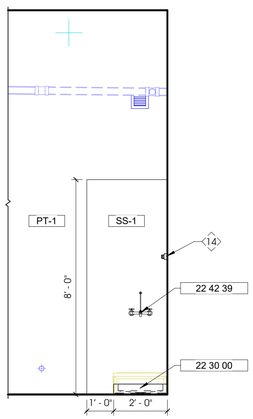
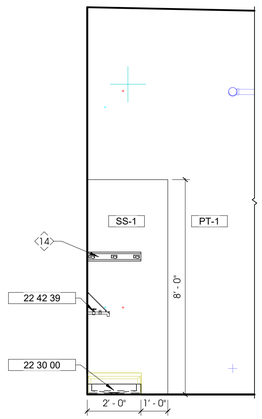
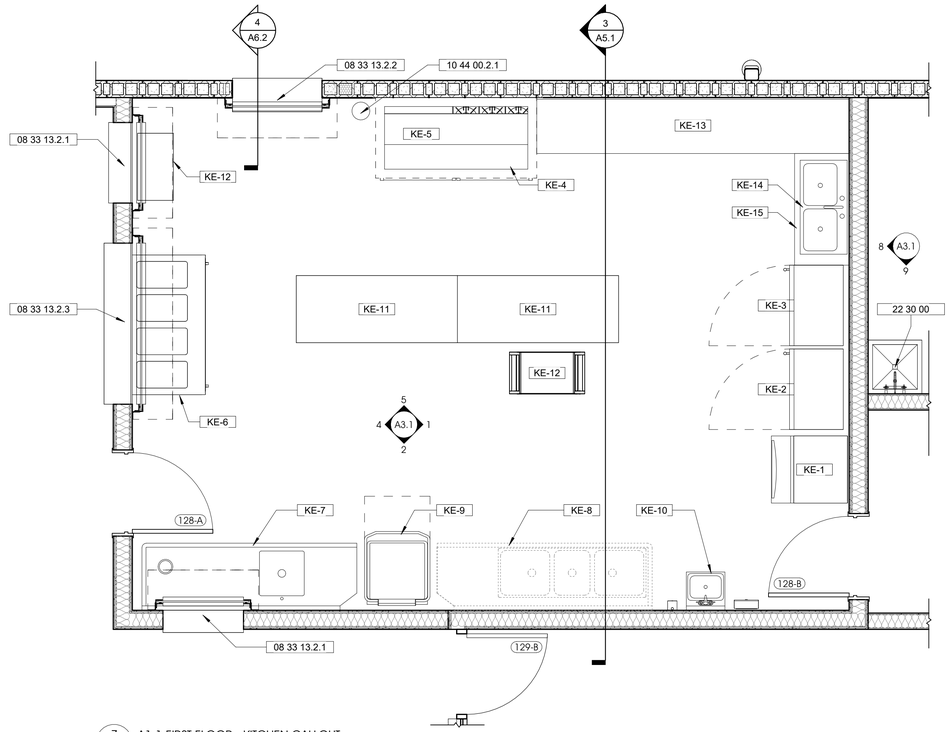


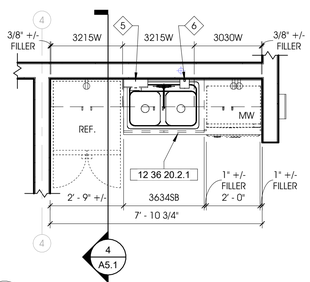
9 A3.1 MECHANICAL 126 - WEST INTERIOR ELEVATION
3/8" = 1'-0"



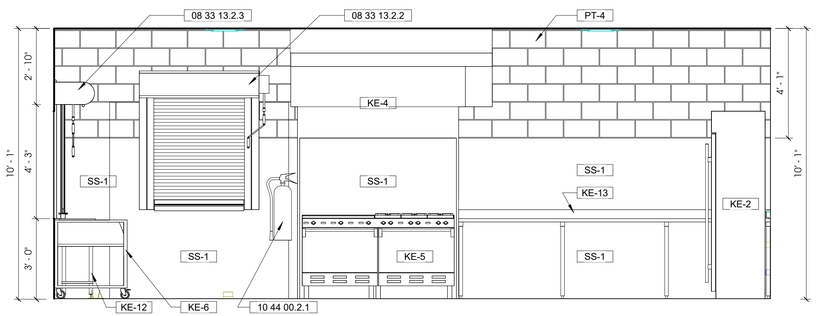
8 A3.1 MECHANICAL 126 - NORTH INTERIOR ELEVATION
3/8" = 1'-0"



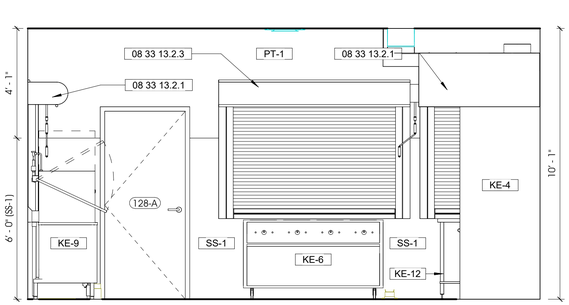
7 A3.1 A1.1 FIRST FLOOR - KITCHEN CALLOUT
3/8" = 1'-0"



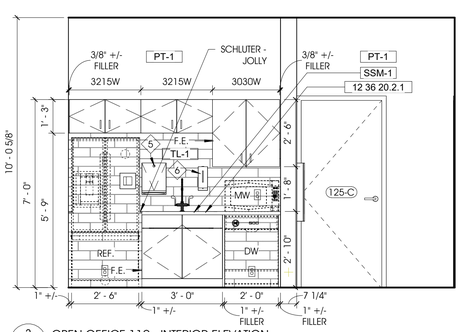
6 A1.1 OPEN OFFICE 110 - PLAN DETAIL
SCALE: 3/8" = 1'-0"



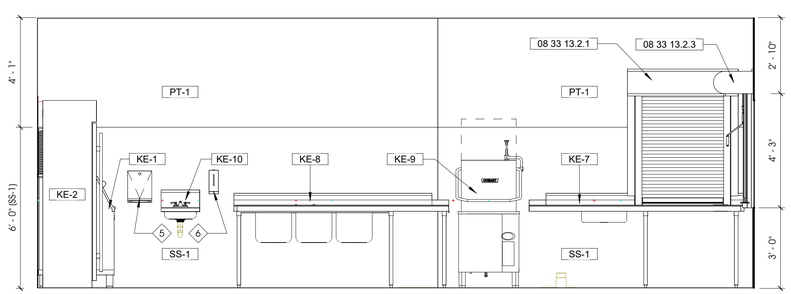
5 A3.1 KITCHEN 127 -NORTH INTERIOR ELEVATION
3/8" = 1'-0"



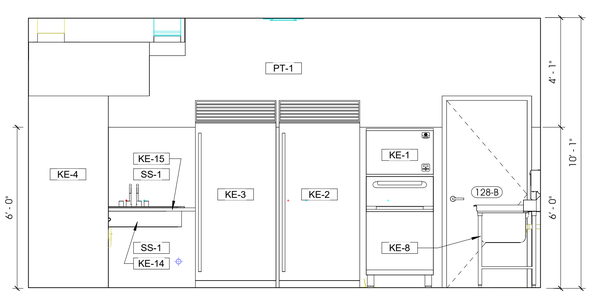
4 A3.1 KITCHEN 127 - WEST INTERIOR ELEVATION
3/8" = 1'-0"



3 A3.1 OPEN OFFICE 110 - INTERIOR ELEVATION
3/8" = 1'-0"



2 A3.1 KITCHEN 127 - SOUTH INTERIOR ELEVATION
3/8" = 1'-0"



1 A3.1 KITCHEN 127 - EAST INTERIOR ELEVATION
3/8" = 1'-0"

GENERAL NOTES - INTERIOR ELEVATIONS

A. PROVIDE BLOCKING AT ALL CASEWORK, EQUIPMENT, AND TOILET ACCESSORY LOCATIONS (TYP.)

B. PROVIDE CLOSURE PLATE ON TOP OF ALL CASEWORK AT FILLER STRIP LOCATIONS

C. TOP OF ALL WALL MOUNT SINKS SHALL BE 34" A.F.F.

D. PROVIDE 6" TILE WALL BASE AT ALL TOILET ROOMS (TYP.)

E. FLOOR AND WALL TILE GROUT LINES SHALL ALIGN (TYP.) CONFIRM w/ ARCHITECT PRIOR TO INSTALLATION.

F. PROVIDE LOCKS AT ALL CASEWORK DOORS & DRAWERS

G. PROVIDE RAKKS EH1818FM - INSIDE WALL MOUNT COUNTER SUPPORT BRACKETS EQUALLY SPACED AT ALL SPANS 36" OR MORE. BRACKETS SHALL BE CENTERED IN SPAN AND 36" O.C. (MAX). PROVIDE BLOCKING IN WALLS AS REQUIRED. BRACKET SIZE SHALL BE AS REQUIRED FOR COUNTERTOP DEPTH.

H. GENERAL CONTRACTOR SHALL COORDINATE ALL MEP COMPONENTS AND REQUIREMENTS WITH MEP DRAWINGS AND SPECS.

I. TRIPLE BASIN KITCHEN SINK SHALL BE PURCHASED BY OWNER AND INSTALLED BY G.C. ALL OTHER KITCHEN EQUIPMENT SHALL BE PROVIDED BY G.C.

J. PROVIDE ADDITIONAL BLOCKING AND TRIM @TOILET ROOM MIRRORS WHERE MIRROR OVERLAPS WALL TILE. (TYP.)

KEYNOTE LEGEND

Key Value	Keynote Text
08 33 13.2.1	36" COILING COUNTER DOOR WITH (MANUAL) W/ INTEGRAL STAINLESS STEEL COUNTERTOP
08 33 13.2.2	40" COILING COUNTER DOOR WITH (MANUAL) W/ INTEGRAL STAINLESS STEEL COUNTERTOP
08 33 13.2.3	72" COILING COUNTER DOOR WITH (MANUAL) W/ INTEGRAL STAINLESS STEEL COUNTERTOP
10 44 00.2.1	PROVIDE FIRE EXTINGUISHERS AS REQUIRED BY CODE. PROVIDE WALL MOUNT BRACKETS AT CONCEALED LOCATIONS, MECHANICAL ROOMS, ELECTRICAL ROOMS, ETC... PROVIDE SEMI-RECESSED CABINETS AT ALL VISIBLE LOCATIONS. COLOR SHALL BE WHITE WITH RED LETTERING - REFER TO SHEET 11.3 FOR LOCATIONS
12 36 20.2.1	
22 30 00	PLUMBING EQUIPMENT
22 42 39	COMMERCIAL FAUCETS

KITCHEN EQUIPMENT

Key Value	Keynote Text
KE-1	Ice Maker w/ Bin
KE-2	Full Height Stainless Steel Freezer
KE-3	Full Height Stainless Steel Refrigerator
KE-4	Commercial Range Hood
KE-5	Commercial (6) Burner Range with Built-in Griddle
KE-6	Mobile Food Warming Station
KE-7	Soiled Dishtable - Left Handed
KE-8	Soiled Dishtable with (3) Compartment Sink - Left Handed (BY OWNER)
KE-9	Commerical Dishwasher with Booster Heater
KE-10	Stainless Steel Hand Sink
KE-11	36"x72" Stainless Steel Cart
KE-12	30"x36" Stainless Steel Cart
KE-13	STAINLESS STEEL KITCHEN COUNTER
KE-14	STAINLESS STEEL KITCHEN SINK
KE-15	KE-15 STAINLESS STEEL KITCHEN COUNTER W/ SINK HOLES

LEGEND - FINISHES

Key Value	Keynote Text
ACT-1	2'x2' USG ACOUSTICAL CEILING TILE
ACT-2	2'X4' USG ACOUSTICAL CEILING TILE
ACT-3	ACOUSTICAL CEILING TILE 3
CPT-1	MOHAWK - SIDE STRIPE - HERITAGE 963 (INSTALL IN BRICK ASHLAR, STRIPES GOING N TO S.)
CPT-2	MOHAWK - MELLOW D - SOLITUDE 969 (INSTALL IN BRICK ASHLAR)
CPT-3	MOHAWK - VISUAL CONNECTIONS - IRON 969 (INSTALL IN BRICK ASHLAR)
CPT-4	MOHAWK - FIRST STEP II - OBSIDIAN 989 (INSTALL IN QUARTER TURN PATTERN)
EPF-1	EPOXY FLECK FLOORING (TO BE CONFIRMED WITH ARCHITECT) W/ 6" INTEGRAL WALL BASE
LVT-1	MOHAWK - REFORESTATION - RACEHORSE 939 (INSTALL IN RANDOM LAY PATTERN)
LVT-2	MILLIKEN - LIGHT STITCH - REVEAL (INSTALL IN RANDOM LAY PATTERN)
LVT-3	MILLIKEN - LIGHT STITCH - DIM (INSTALL IN RANDOM LAY PATTERN)
PT-1	SHERWIN WILLIAMS - PROMAR 200 - ALABASTER SW 7008
PT-2	SHERWIN WILLIAMS - PROMAR 200 - TRICORN BLACK 6528
PT-3	SHERWIN WILLIAMS - PROMAR 200 - REAL RED 6868
PT-4	SHERWIN WILLIAMS - PROMAR 200 - EGRET WHITE SW 7570
RB-1	THERMOPLASTIC WALL BASE
SC-1	SEALED CONCRETE
SS-1	STAINLESS STEEL WALL PROTECTION
SSM-1	CORIAN SOLID SURFACE (OR EQUAL) - LINEN
TL-1	LOUISVILLE TILE - SOHO SUBWAY - MATTE WHITE 4X16
WV-1	WALL VINYL - INSTALL WALL VINYL LOGO TO MATCH CLIENTS BRANDING

NO.	REVISION DESCRIPTION	BY	DATE

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PROJECT:
DOING THE MOST GOOD
NILES FACILITY
1707 MILLER DR. NILES, MI 49120

SHEET TITLE:
INTERIOR ELEVATIONS

MODELED BY: JPA, AND
DESIGNED BY: ARD
PM REVIEW: ARD
QA/QC REVIEW: MDN
DATE: 07/31/2023
SEAL: STATE OF MICHIGAN ARVIN RIC DELACRUZ ARCHITECT No. 1301060203 LICENSED ARCHITECT
SIGNATURE:
DATE:

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ACI JOB # 22-0578

SHEET NO. A3.1

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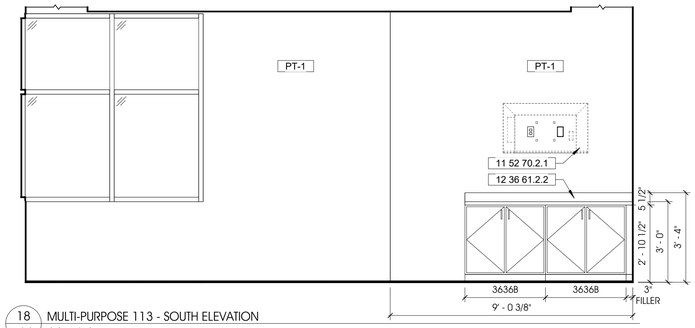
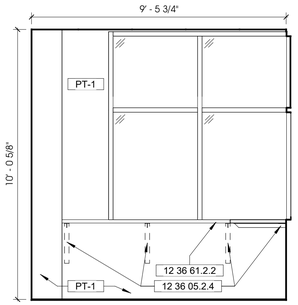


18 A3.2 MULTI-PURPOSE 113 - SOUTH ELEVATION
3/8" = 1'-0"



17 A3.2 RECEPTION 104 - NORTH INTERIOR ELEVATION
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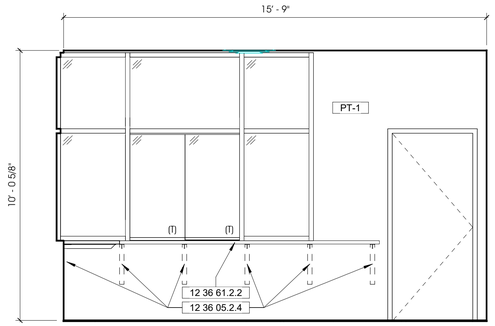
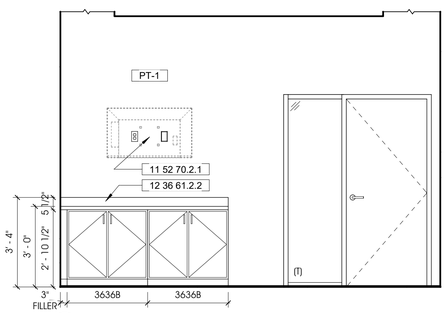
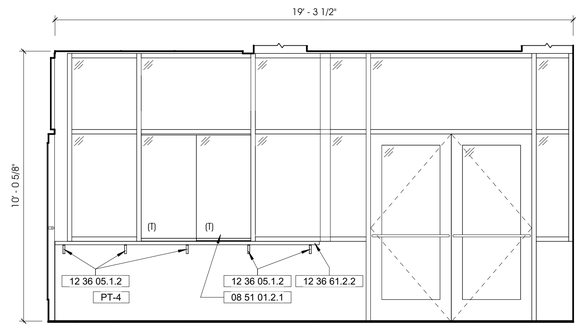


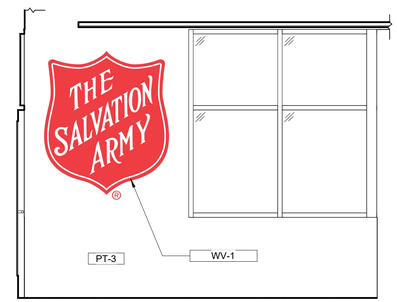
16 A3.2 RECEPTION 104 - EAST INTERIOR ELEVATION
3/8" = 1'-0"



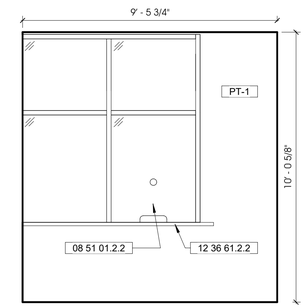
15 A3.2 MULTI-PURPOSE 115 - EAST ELEVATION
3/8" = 1'-0"



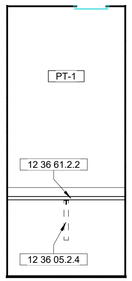
14 A3.2 COMMON AREA 102 - WEST INTERIOR ELEVATION
3/8" = 1'-0"



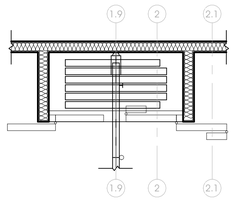
13 A3.2 ENTRY - MURAL WALL
3/8" = 1'-0"



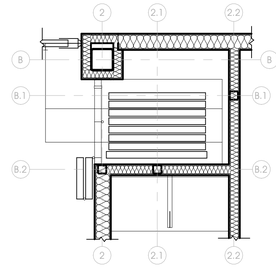
12 A3.2 VESTIBULE 101 - SOUTH INTERIOR ELEVATION
3/8" = 1'-0"



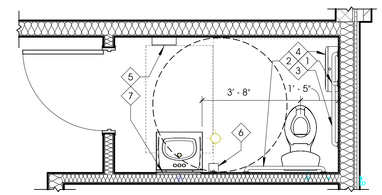
11 A3.2 AV CLOSET 131 - EAST ELEVATION
3/8" = 1'-0"



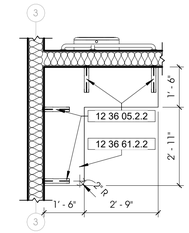
10 A3.2 ENLARGED PLAN - MULTI-PURPOSE PARTISION WALL
3/8" = 1'-0"



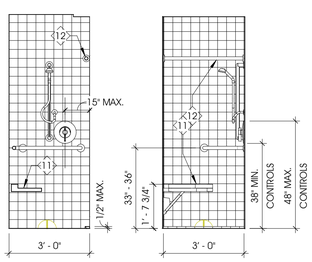
9 A3.2 ENLARGED PLAN - CHAPEL PARTITION WALL
3/8" = 1'-0"



8 A3.2 ENLARGED PLAN @ OFFICE TOILETROOM
3/8" = 1'-0"

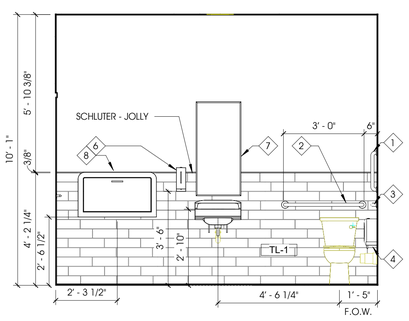


7 A3.2 ENLARGED PLAN - PANTRY
3/8" = 1'-0"

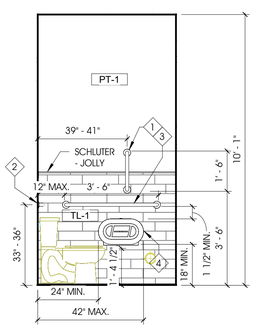


6 A3.2 SHOWER - WEST
3/8" = 1'-0"

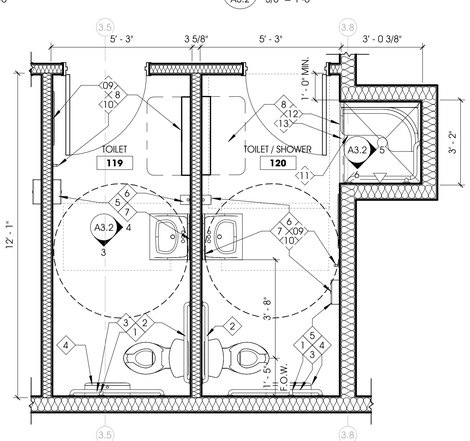
5 A3.2 SHOWER - SOUTH
3/8" = 1'-0"



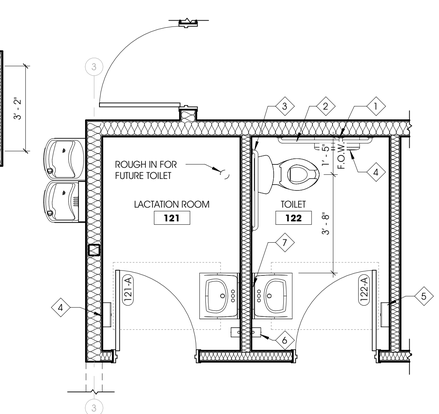
4 A3.2 TYP. ADA TLT ROOM - SOUTH
3/8" = 1'-0"
* SIMILAR @ TOILET ROOMS 117 & 119 *
* MIRRORED @ TOILET ROOMS 118 & 120 *



3 A3.2 TYP. ADA TLT ROOM - WEST
3/8" = 1'-0"



2 A3.2 ENLARGED PLAN @ ACCESSIBLE TOILET ROOMS WITH SHOWER
3/8" = 1'-0"
* SIMILAR @ ALL OTHER ASSESSABLE TOILET ROOMS *



1 A3.2 ENLARGED PLAN @ TOILET ROOMS
3/8" = 1'-0"
* SIMILAR @ ALL OTHER TOILET ROOMS *

GENERAL NOTES - INTERIOR ELEVATIONS

A. PROVIDE BLOCKING AT ALL CASEWORK, EQUIPMENT, AND TOILET ACCESSORY LOCATIONS (TYP.)

B. PROVIDE CLOSURE PLATE ON TOP OF ALL CASEWORK AT FILLER STRIP LOCATIONS

C. TOP OF ALL WALL MOUNT SINKS SHALL BE 34" A.F.F.

D. PROVIDE 6" TILE WALL BASE AT ALL TOILET ROOMS (TYP.)

E. FLOOR AND WALL TILE GROUT LINES SHALL ALIGN (TYP.) CONFIRM w/ ARCHITECT PRIOR TO INSTALLATION.

F. PROVIDE LOCKS AT ALL CASEWORK DOORS & DRAWERS

G. PROVIDE RAKKS EH1818FM - INSIDE WALL MOUNT COUNTER SUPPORT BRACKETS EQUALLY SPACED AT ALL SPANS 36" OR MORE. BRACKETS SHALL BE CENTERED IN SPAN AND 36" O.C. (MAX). PROVIDE BLOCKING IN WALLS AS REQUIRED. BRACKET SIZE SHALL BE AS REQUIRED FOR COUNTERTOP DEPTH.

H. GENERAL CONTRACTOR SHALL COORDINATE ALL MEP COMPONENTS AND REQUIREMENTS WITH MEP DRAWINGS AND SPECS.

I. TRIPLE BASIN KITCHEN SINK SHALL BE PURCHASED BY OWNER AND INSTALLED BY G.C. ALL OTHER KITCHEN EQUIPMENT SHALL BE PROVIDED BY G.C.

J. PROVIDE ADDITIONAL BLOCKING AND TRIM @TOILET ROOM MIRRORS WHERE MIRROR OVERLAPS WALL TILE. (TYP.)

KEYNOTE LEGEND

Key Value	Keynote Text
08 51 01.2.1	DOUBLE SLIDING GLASS WINDOW w/ BASE TRACK FULLY RECESSED INTO COUNTERTOP AND HEAD TRACK RECESSED INTO STOREFRONT MULLION. PROVIDE PULL HANDLES AND RATCHET LOCK
08 51 01.2.2	PROVIDE 12"W x 3"H TRANSACTION HOLE AND 3" DIA SPEAK HOLE w/ SOFTENED EDGES
11 52 70.2.1	TV AND TV BRACKET SHALL BE PURCHASED BY OWNER AND INSTALLED BY CONTRACTOR. CONTRACTOR SHALL PROVIDE BLOCKING AT ALL WALL MOUNTED TV LOCATIONS. EC SHALL PROVIDE POWER AND DATA TYP
12 36 05.1.2	4" x 6" RAKKS - SILL SUPPORT BRACKET (LOW PROFILE SUPPORT FOR SHELVES & SILLS UP TO 10" DEEP)
12 36 05.2.2	EH-1212FM RAKKS - CONCEALED EH COUNTERTOP SUPPORT BRACKET (COUNTERS UP TO 18" DEPTH)
12 36 05.2.4	EH-1824FM RAKKS - CONCEALED EH COUNTERTOP SUPPORT BRACKET (COUNTERS UP TO 30" DEPTH)
12 36 61.2.2	COUNTERTOPS SHALL BE CORIAN SOLID SURFACE (OR EQUAL)WITH WELDED SEAMS AND MATCHING BACKSPLASH AL ALL WET WALL LOCATIONS. VANITY SINKS SHALL BE INTEGRAL. COLOR SHALL BE SELECTED BY ARCHITECT FROM MANUFACTURERS FULL COLOR LIBRARY

KEYNOTES - TOILET ACCESSORIES

TAG	ITEM	PURCHASED BY	INSTALLED BY	ADA	NOTES
1	18" GRAB BAR (VERT)	G.C.	G.C.	40" AFF TO BOTTOM	MOUNT VERTICALLY
2	36" GRAB BAR (HORZ)	G.C.	G.C.	34" AFF TO BOTTOM	
3	42" GRAB BAR (HORZ)	G.C.	G.C.	34" AFF TO BOTTOM	
4	TOILET PAPER DISPENSER	G.C.	G.C.	19" AFF TO CENTER OF ROLL	
5	PAPER TOWEL DISPENSER	G.C.	G.C.	48" AFF TO BOTTOM	
6	SOAP DISPENSER	G.C.	G.C.	44" AFF TO BOTTOM	
7	MIRROR 20" x 46"	G.C.	G.C.	40" AFF MAX TO BOTTOM	
8	BABY CHANGING STATION	G.C.	G.C.	30.5" TO BOTTOM OF STATION	
09	FULL LENGTH MIRROR	G.C.	G.C.	12" AFF TO BOTTOM	
10	ROBE HOOK	G.C.	G.C.	48" AFF TO BOTTOM	
11	ADA SHOWER SEAT	G.C.	G.C.		
12	SHOWER ROD	G.C.	G.C.		
13	SHOWER CURTAIN	G.C.	G.C.		
14	BROOM/ MOP HOLDER	G.C.	G.C.		

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PROJECT:
DOING THE MOST GOOD
NILES FACILITY
1707 MILLER DR. NILES, MI 49120

SHEET TITLE:
ENLARGED FLOOR PLANS AND ELEVATIONS

MODELED BY: JCA, AND
DESIGNED BY: ARD
PM REVIEW: ARD
QA/QC REVIEW: MDN
DATE: 07/31/2023
SEAL: STATE OF MICHIGAN ARVIN RIC DELACRUZ ARCHITECT No. 1301060203 LICENSED ARCHITECT
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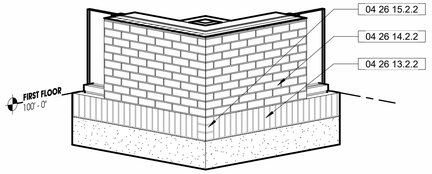
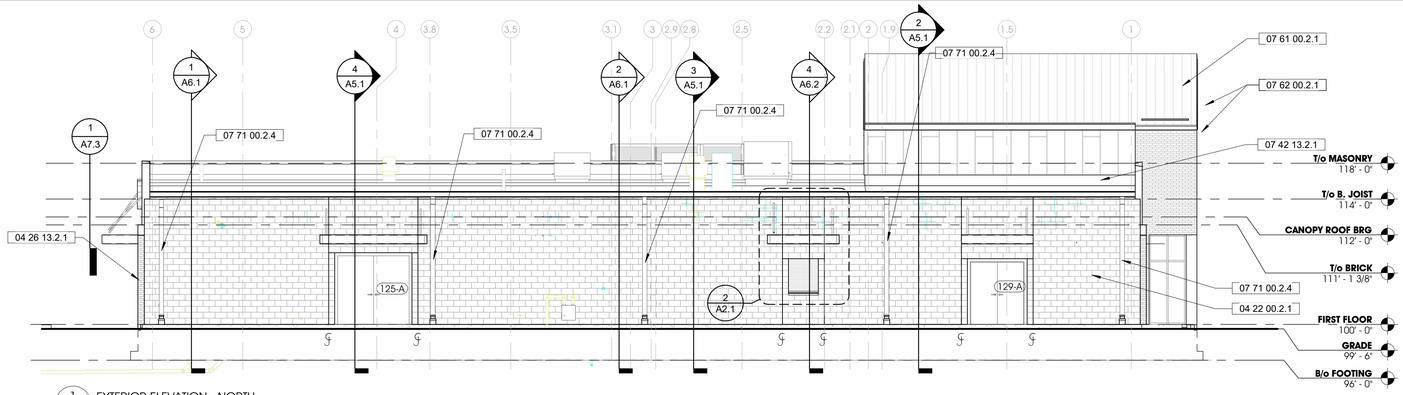
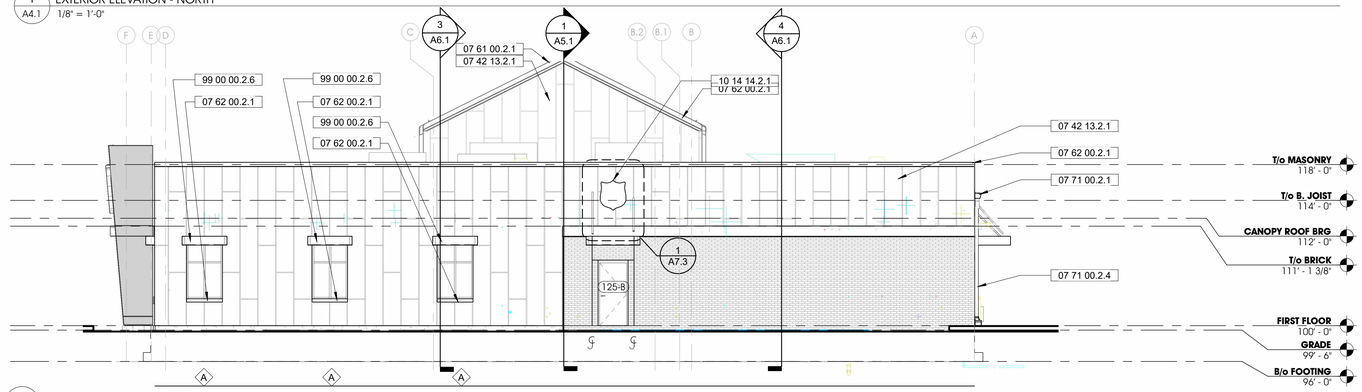


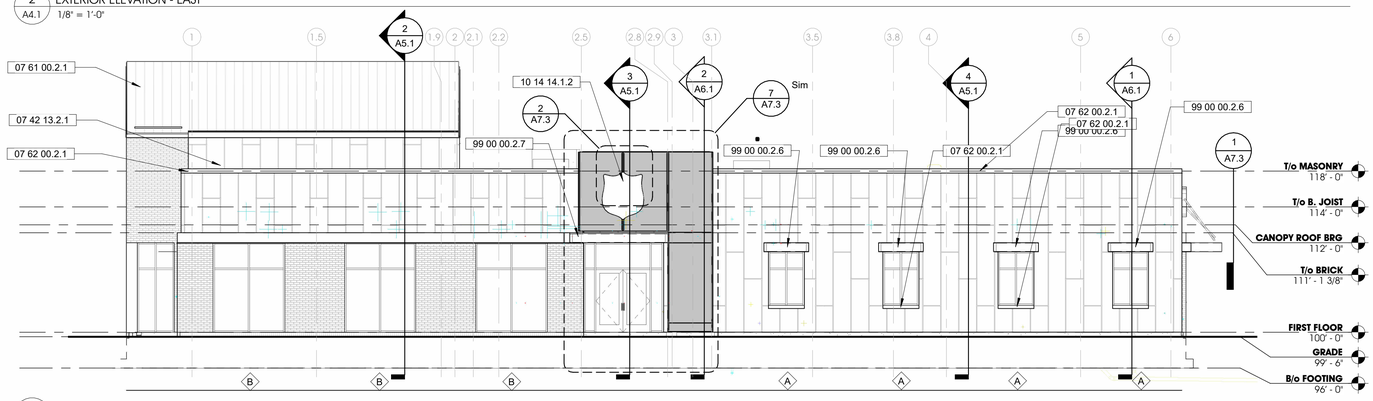
5 A4.1 DETAIL @ SOLDIER COURSE OUTSIDE CORNER (TYP)



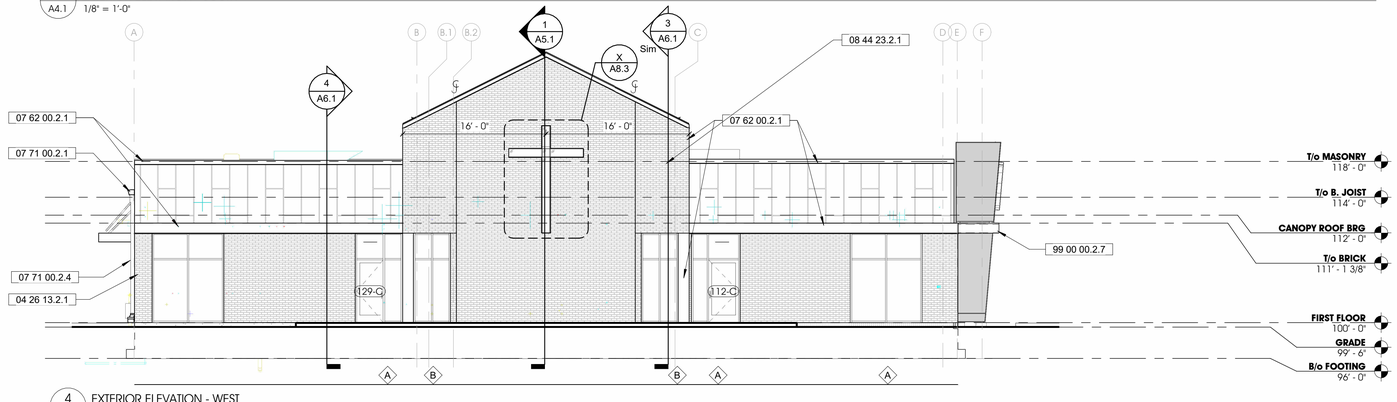
1 A4.1 EXTERIOR ELEVATION - NORTH
1/8" = 1'-0"



2 A4.1 EXTERIOR ELEVATION - EAST
1/8" = 1'-0"



3 A4.1 EXTERIOR ELEVATION - SOUTH
1/8" = 1'-0"



4 A4.1 EXTERIOR ELEVATION - WEST
1/8" = 1'-0"

GENERAL NOTES - EXTERIOR ELEVATIONS

A. PROVIDE SEALANT AND BACKER ROD BETWEEN ALL DISSIMILAR MATERIALS

B. REFER TO SHEET 2/A2.1 FOR CANOPY DETAILS

C. REFER TO SHEET 2/A4.2 & 3/A4.2 FOR SIGN DETAILS

D. REFER TO SHEET 2/4.2 FOR ENTRY MESH TOWER/ CANOPY DETAILS

E. ALL MATERIALS SHALL BE INSTALLED PER MFR. WRITTEN REQUIREMENTS & DETAILS FOR A COMPLETE INSTALLATION.

KEYNOTE LEGEND

Key Value	Keynote Text
04 22 00.2.1	CMU SHALL BE STANDARD GRAY WITH W.R. GRACE, DRYBLOCK INTEGRAL WATER REPELLENT (TYP). PROVIDE HORIZONTAL LADDER REINFORCING AT 16" O.C. AND AT PERIMETER OF ALL OPENINGS. PROVIDE BLOCK FLASH AT WALL BASE AND ABOVE ALL BOND BEAMS (TYP). ALL CORES NOT SCHEDULED TO BE GROUTED SOLID SHALL BE INSULATED WITH PERLITE INSULATION - RUNNING BOND PATTERN
04 26 13.2.1	BRICK - RUNNING BOND - SHALL BE BELDEN 'BOYSTOWN MATT' (OR EQUAL) - PROVIDE HECKMAN TRIANGULAR TIES @ 24 O.C. (HORIZ) AND 16" O.C. (VERT). PROVIDE HORIZONTAL LADDER REINFORCING AT 16" O.C. AND AT PERIMETER OF ALL OPENINGS. PROVIDE MORTARNET CAVITY WALL DRAINAGE SYSTEM, STAINLESS STEEL FLASHING, AND CELLULAR WEEP VENTS AT 24" O.C. LOCATED AT TOP OF WALL, BOTTOM OF WALL, ABOVE ALL SHELF ANGLES AND LINTELS AND BELOW ALL WINDOW SILLS. PROVIDE CONTROL JOINTS (HORIZ) AT ALL SHELF ANGLES AND (VERT) AT BOTH SIDES OF ALL OPENING (FULL HEIGHT), BETWEEN DISSIMILAR MATERIALS AND OTHERWISE EQUALLY SPACED PER IMI WRITTEN REQUIRMENTS (U.N.O.)"
04 26 13.2.2	BRICK SOLDIER COURSE
04 26 14.2.2	BRICK RUNNING BOND COURSE
04 26 15.2.2	BRICK STACKED 1/2 BRICK
07 42 13.2.1	METAL WALL PANELS SHALL BE DRI-DESIGN PAINTED ALUMINUM. PANELS WIDTH SHALL BE 2FT (U.N.O.). PANEL LENGTH SHALL BE 3FT, 6FT, AND 9FT w/ 1/3RD STAGGARD PATTERN. COLOR SHALL BE RANDOM PATTERN OF (4) CUSTOM SHADES OF RED TO MATCH ARCHITECT SAMPLES
07 61 00.2.1	PAC-CLAD TITE-LOC-PLUS STANDING SEAM METAL ROOF - COLOR SHALL BE MIDNIGHT BRONZE
07 62 00.2.1	FASCIA, TRIM, COPING, ETC... SHALL BE .080 ALUMINUM. PROVIDE BUTT SEAMS WITH BACK UP PLATES (10 FT MAX LENGTH). CORNERS SHALL BE FULLY WELDED WITH 24" (MIN) RETURN. ALL FASTENERS SHALL BE CONCEALED. COLOR SHALL MATCH ADJACENT WALL FINISH (U.N.O.).
07 71 00.2.1	ALUMINUM GUTTER SHALL BE HEAVY DUTY. PROVIDE ADDITIONAL 1/8"x1 1/2" SUPPORT BRACKETS AT 36" O.C. GUTTER PROFILE SHALL BE 9"W x 7"D STYLE 'A' PER SMACNA ARCHITECTURAL SHEET METAL MANUAL. GUTTER AND SUPPORT BRACKET COLOR SHALL BE DARK BRONZE.
07 71 00.2.4	ALUMINUM DOWNSPOUT SHALL BE HEAVY DUTY, SMOOTH, 4" x 4" RECTANGULAR SHAPE. COLOR SHALL BE DARK BRONZE.
08 44 23.2.1	DARK BRONZE ANODIZED ALUMINUM FRAMED STRUCTURAL SEALANT GLAZED CURTAIN WALL SHALL BE TUBELITE 400T SSG CASSETTE SERIES WITH 2 1/2" x 6 1/4" FRAME AND 1" INSULATED CLEAR GLAZING
10 14 14.1.2	INTERALLY LIT LED LOGO SIGN
10 14 14.2.1	NON-LIT LOGO SIGN
99 00 00.2.6	WINDOW CANOPY - REFER TO DETAIL 4/A2.1
99 00 00.2.7	MAIN ENTRY CANOPY & SCREENWALL - REFER TO SHEET A7.3

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Engineering, Architecture, Land Surveying

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NILES FACILITY
1707 MILLER DR. NILES, MI 49120

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EXTERIOR ELEVATIONS

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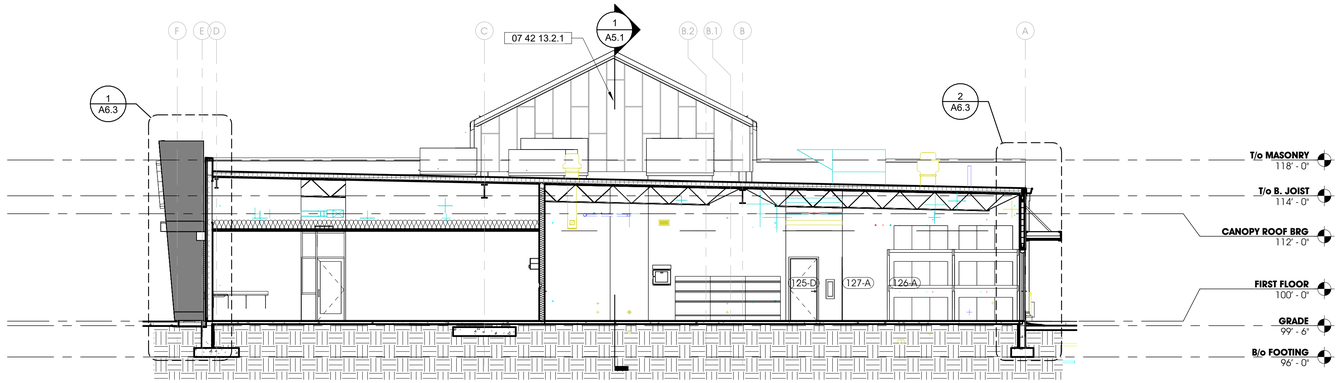
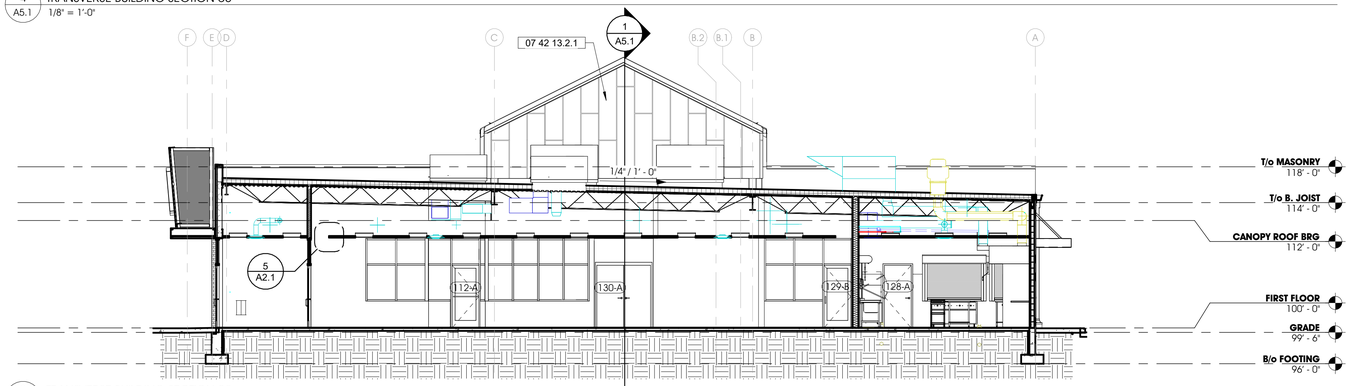
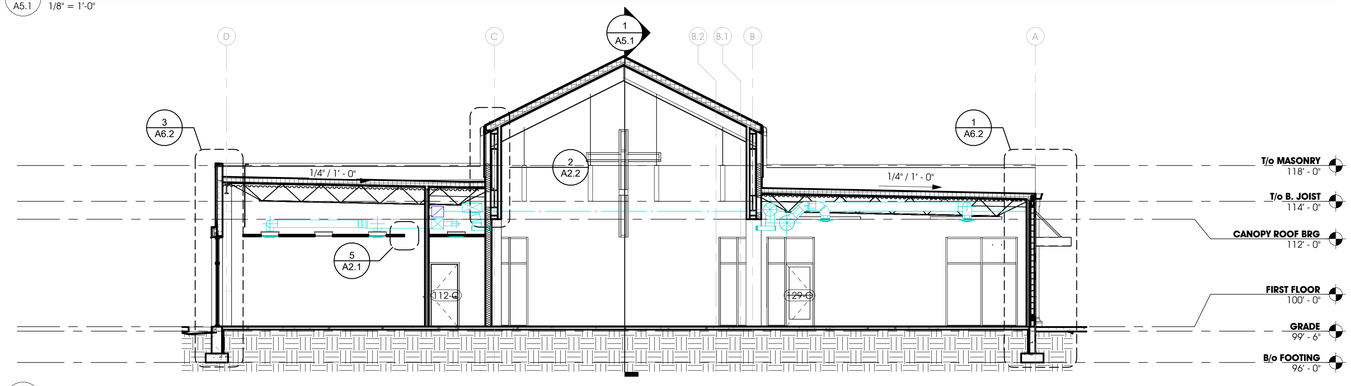


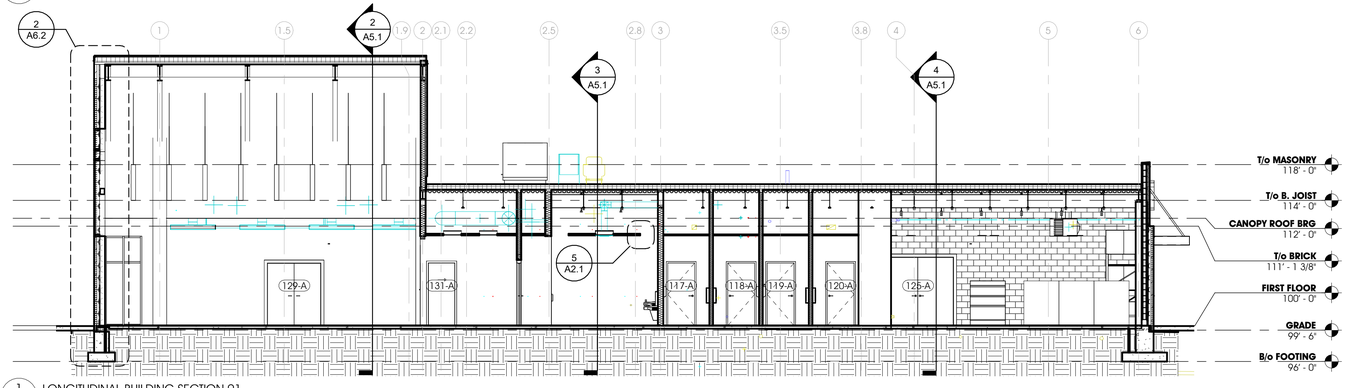
4 A5.1 TRANSVERSE BUILDING SECTION 03
1/8" = 1'-0"



3 A5.1 TRANSVERSE BUILDING SECTION 02
1/8" = 1'-0"



2 A5.1 TRANSVERSE BUILDING SECTION 01
1/8" = 1'-0"



1 A5.1 LONGITUDINAL BUILDING SECTION 01
1/8" = 1'-0"

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PROJECT:

DOING THE MOST GOOD

NILES FACILITY
1707 MILLER DR. NILES, MI 49120

SHEET TITLE:

BUILDING SECTIONS

MODELED BY: JPA, AND
DESIGNED BY: ARD
PM REVIEW: ARD
QA/QC REVIEW: MDN
DATE: 07/31/2023
SEAL:

STATE OF MICHIGAN
ARVIN RIC DELACRUZ
ARCHITECT
No. 1301060203
LICENSED ARCHITECT

SIGNATURE:
DATE:

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SCALE:
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ACI JOB #
22-0578

SHEET NO.
A5.1

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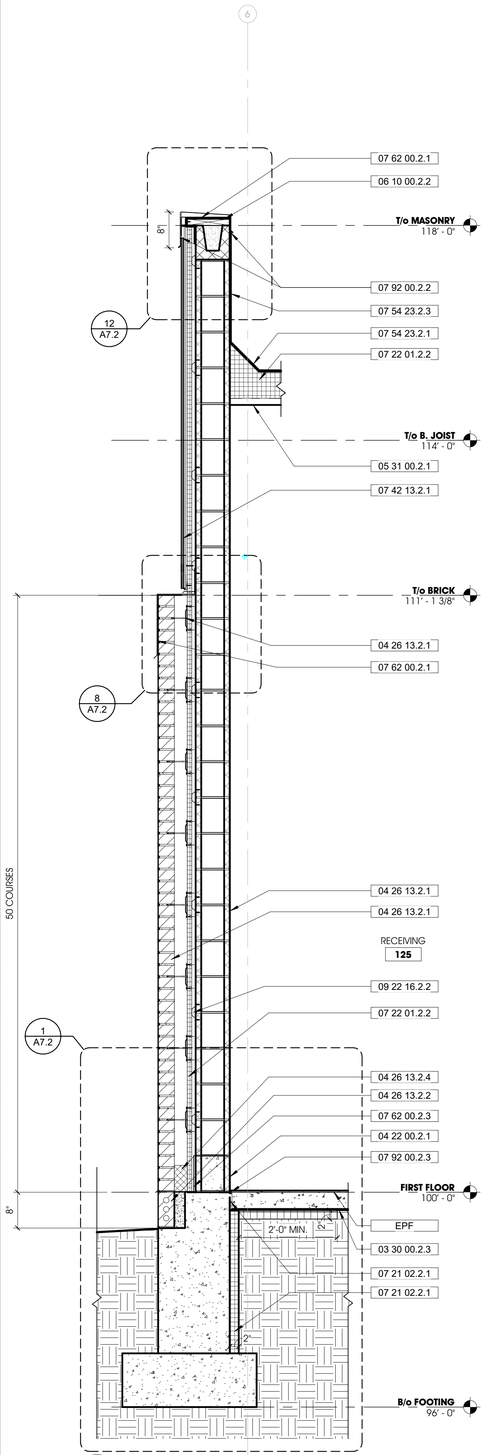
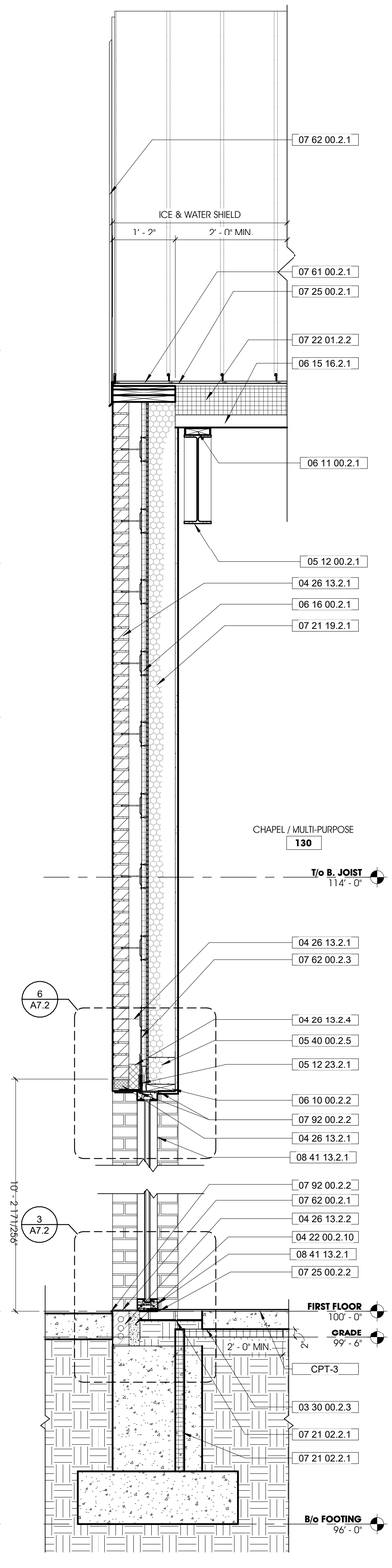
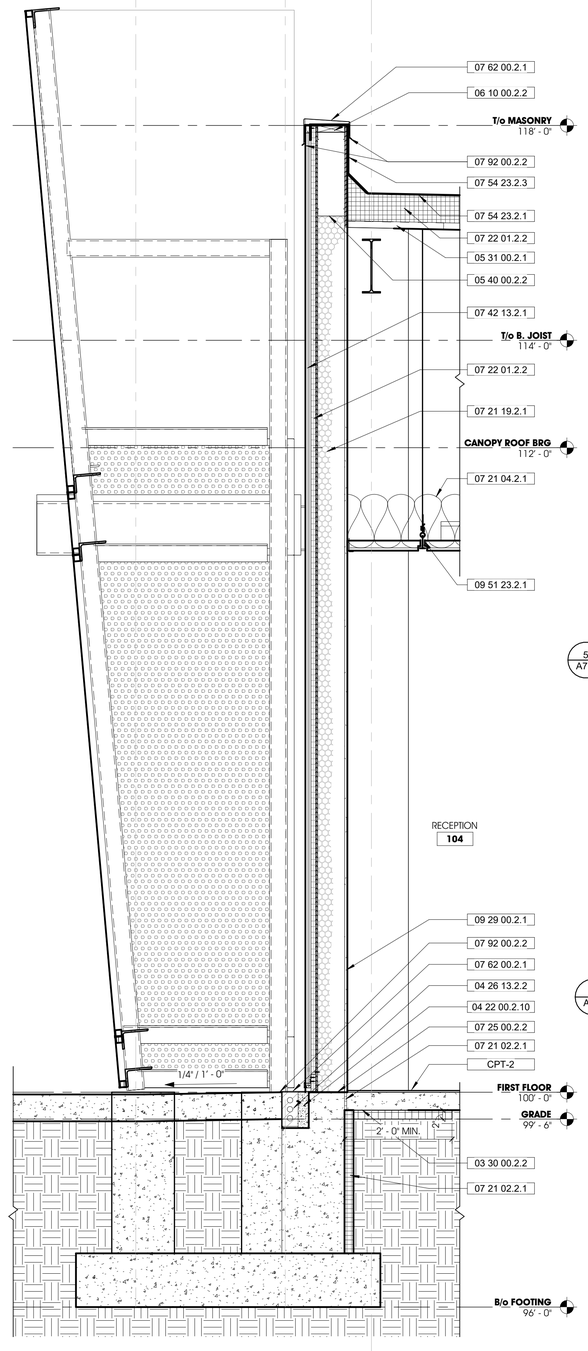


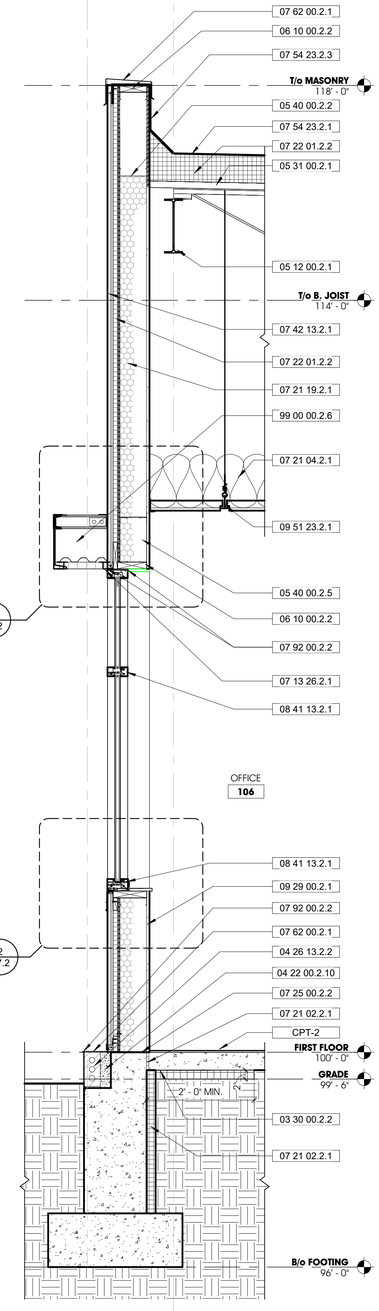
4 A6.1 WALL SECTION - SOUTH WALL SECTION
3/4" = 1'-0"



3 A6.1 WALL SECTION - NORTH WALL SECTION
3/4" = 1'-0"



2 A6.1 WALL SECTION - WEST WALL SECTION 03
3/4" = 1'-0"



1 A6.1 WALL SECTION - WEST WALL SECTION 02
3/4" = 1'-0"

GENERAL NOTES - WALL SECTIONS

A. ALL CONTRACTORS ARE RESPONSIBLE FOR PROVIDING COMPLETE INSTALLATION OF ALL COMPONENTS AND SHALL COORDINATE THEIR SCOPE OF WORK WITH ALL OTHER TRADES PRIOR TO SUBMITTING BIDS TO ENSURE THERE ARE NO MISSING OR DUPLICATE COMPONENTS WITH-IN THEIR SCOPE

B. DO NOT SCALE DRAWINGS. USE INDICATED DIMENSIONS ONLY.

C. SHOULD A CONTRACTOR FIND DISCREPANCIES OR AMBIGUITIES IN OR OMISSIONS FROM THE DRAWINGS OR SPECIFICATIONS, OR BE IN DOUBT ABOUT THEIR MEANING, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY.

D. CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE JOB DURING CONSTRUCTION LAYOUT AND ADVISE THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO PERFORMING ANY WORK.

E. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS ON-SITE AND ADVISING ARCHITECT OF ANY DISCREPANCIES WITH DEMOLITION OR NEW WORK PLANS PRIOR TO PERFORMING ANY WORK.

F. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY IF ANY UNFORESEEN STRUCTURAL OR UTILITY RELATED ISSUES ARISE DURING DEMOLITION OR EXCAVATION.

G. ALL SPECIFIED ITEMS SHALL BE PROVIDED AND INSTALLED PER MANUFACTURERS WRITTEN REQUIREMENTS

KEYNOTE LEGEND

Key Value	Keynote Text
03 30 00.2.2	INTERIOR CONCRETE SLAB OVER CONTINUOUS VAPOR BARRIER AND 6 PROPERLY COMPACTED BASE. CONCRETE SLAB - MIX DESIGN, CONCRETE REINFORCING, AND CONCRETE ACCESSORIES BY STRUCTURAL ENGINEER - PROVIDE CONCRETE DENSIFIER/HARDENER TO SEAL CONCRETE FLOOR - REFER TO STRUCTURAL"
03 30 00.2.3	10 MIL STEGO UNDERSLAB VAPOR BARRIER SHALL BE INSTALLED CONTINUOUS UNDER ENTIRE SLAB PER MANUFACTURERS WRITTEN REQUIREMENTS - PROVIDE STEGO TAPE AT ALL EDGE LOCATIONS INCLUDING BUT NOT LIMITED TO PERIMETER, SEAMS, PENETRATIONS, AND PUNCTURES
04 22 00.2.1	CMU SHALL BE STANDARD GRAY WITH W.R. GRACE, DRYBLOCK INTEGRAL WATER REPELLENT (TYP). PROVIDE HORIZONTAL LADDER REINFORCING AT 16"" O.C. AND AT PERIMETER OF ALL OPENINGS. PROVIDE BLOCK FLASH AT WALL BASE AND ABOVE ALL BOND BEAMS (TYP). ALL CORES NOT SCHEDULED TO BE GROUTED SOLID SHALL BE INSULATED WITH PERLITE INSULATION - RUNNING BOND PATTERN
04 22 00.2.10	GROUT SOLID
04 26 13.2.1	BRICK - RUNNING BOND - SHALL BE BELDEN 'BOYSTOWN MATT' (OR EQUAL) - PROVIDE HECKMAN TRIANGULAR TIES @ 24 O.C. (HORIZ) AND 16" O.C. (VERT). PROVIDE HORIZONTAL LADDER REINFORCING AT 16" O.C. AND AT PERIMETER OF ALL OPENINGS. PROVIDE MORTARNET CAVITY WALL DRAINAGE SYSTEM, STAINLESS STEEL FLASHING, AND CELLULAR WEEP VENTS AT 24" O.C. LOCATED AT TOP OF WALL, BOTTOM OF WALL, ABOVE ALL SHELF ANGLES AND LINTELS AND BELOW ALL WINDOW SILLS. PROVIDE CONTROL JOINTS (HORIZ) AT ALL SHELF ANGLES AND (VERT) AT BOTH SIDES OF ALL OPENING (FULL HEIGHT), BETWEEN DISSIMILAR MATERIALS AND OTHERWISE EQUALLY SPACED PER IMI WRITTEN REQUIRMENTS (U.N.O.)"
04 26 13.2.2	BRICK SOLDIER COURSE
04 26 13.2.4	MASONRY ACCESSORIES - MORTAR NET
05 12 00.2.1	STEEL BEAM - REFER TO STRUTURAL
05 12 23.2.1	STEEL ANGLE - REFER TO STRUCTURAL
05 31 00.2.1	STEEL ROOF DECKING - REFER TO STRUCTURAL
05 40 00.2.2	6" MTL STUD
05 40 00.2.5	STEEL HEADER - REFER TO STRUCTURAL
06 10 00.2.2	TREATED WOOD BLOCKING SHALL BE PROVIDED AT ALL LOCATIONS EXPOSED TO MOISTURE, EXTERIOR BUILDING ENVELOPE, ADJACENT TO CONCRETE OR MASONRY, AND AS OTHERWISE REQUIRED.
06 11 00.2.1	2X NAILER - REFER TO STRUCTURAL
06 15 16.2.1	3" x 6" DOUBLE T&G WOOD ROOF DECKING SHALL BE EXPOSED. FINISH SHALL BE SMOOTH AND FREE OF MANUFACTURER STAMPS AND MARKINGS. PROVIDE STAIN & VARNISH.
06 16 00.2.1	ZIP R-6 INSULATED WALL SHEATHING AND WEATHER BARRIER SYSTEM. PROVIDE ZIP SYSTEM TAPE AT ALL SEAMS AND BETWEEN ROOF AND WALL SHEATHING (TYP) FOR A COMPLETE WEATHER BARRIER SYSTEM BY HUBER ENGINEERED WOODS, www.huberwood.com, 1-800-933-9220
07 13 26.2.1	PROVIDE ZIP SYSTEM STRETCH TAPE AT ALL OPENINGS, PENETRATIONS, ETC...
07 21 02.2.1	XPS RIGID INSULATION - PROVIDE TYPE IV AT ALL CAVITY WALL LOCATIONS, TYPE VI AT ALL FOUNDATION WALL LOCATIONS, AND TYPE VII AT ALL UNDER SLAB LOCATIONS
07 21 04.2.1	SOUND ATTINUATION BATT ABOVE LAY-IN CEILING
07 21 19.2.1	3" (MIN) CLOSED CELL SPRAY POLYURETHANE FOAM INSULATION AND VAPOR BARRIER SYSTEM
07 22 01.2.2	POLY ISO INSULATION AND COVER BOARD
07 25 00.2.1	SILL SEALER GASKET SHALL BE CONTINUOUS AT STUD WALLS AND STOREFRONT (TYP)
07 25 00.2.2	GRACE ICE AND WATER SHIELD SHALL BE PROVIDED AT ROOF EAVES, RAKES, RIDGES, VALLEYS, PENETRATIONS ETC... PER MANUFACTURERS WRITTEN REQUIREMENTS. PROVIDE DOUBLE LAYER AT ALL EAVE LOCATIONS AND WHERE RECOMMENDED BY MANUFACTURER (TYP)
07 42 13.2.1	METAL WALL PANELS SHALL BE DRI-DESIGN PAINTED ALUMINUM. PANELS WIDTH SHALL BE 2FT (U.N.O.). PANEL LENGTH SHALL BE 3FT, 6FT, AND 9FT w/ 1/3RD STAGGARD PATTERN. COLOR SHALL BE RANDOM PATTERN OF (4) CUSTOM SHADES OF RED TO MATCH ARCHITECT SAMPLES
07 54 23.2.1	THERMOPLASTIC-POLYOLEFIN ROOFING (TPO) SHALL BE FIRESTONE ULTRAPLY SINGLE PLY MEMBRANE (OR EQUAL). COLOR SHALL BE GRAY. PROVIDE POLY-ISO INSULATION AT ALL ROOF LOCATIONS AND INTEGRAL COVER BOARD. ALL MATERIALS AND ACCESSORIES, INCLUDING FLASHING SHALL BE SINGLE SOURCE. PROVIDE 20 YEAR RED SHIELD WARRANTY (WIND SPEEDS UP TO 72 MPH). SEPARATE 20 YEAR FIRESTONE ISO 95+ INSTALLATION WARRANTY WITH NO DOLLAR LIMIT.
07 54 23.2.3	TPO MEMBRANE ROOFING SHALL BE CONTINUOUS UP AND OVER PARAPET (TYP)
07 61 00.2.1	PAC-CLAD TITE-LOC-PLUS STANDING SEAM METAL ROOF - COLOR SHALL BE MIDNIGHT BRONZE
07 62 00.2.1	FASCIA, TRIM, COPING, ETC... SHALL BE .080 ALUMINUM. PROVIDE BUTT SEAMS WITH BACK UP PLATES (10 FT MAX LENGTH). CORNERS SHALL BE FULLY WELDED WITH 24" (MIN) RETURN. ALL FASTENERS SHALL BE CONCEALED. COLOR SHALL MATCH ADJACENT WALL FINISH (U.N.O.).
07 62 00.2.3	THROUGH WALL FLASHING
07 92 00.2.2	SEALANT SHALL BE CONTINUOUS (TYP)
07 92 00.2.3	SEALANT AND BACKER ROD SHALL BE PROVIDED BETWEEN ALL DISSIMILAR BUILDING ENVELOPE MATERIALS PER SEALANT MANUFACTURERS WRITTEN REQUIREMENTS. (TYP)
08 41 13.2.1	ALUMINUM FRAMED STOREFRONTS SHALL BE TUBELITE 14000 SERIES. ALL EXTERIOR LOCATIONS SHALL HAVE THERMALLY BROKEN FRAMES WITH 1 INSULATED GLAZING. FRAME AND DOOR COLOR SHALL BE DARK BRONZE ANODIZED ALUMINUM. PROVIDE ACTUAL SAMPLE FOR FINAL APPROVAL. EXTERIOR DOORS SHALL BE INSULATED MEDIUM STILE WITH 5 " VERTICAL STILES AND TOP RAIL, AND 10" BOTTOM RAIL."
09 22 16.2.2	7/8" HAT CHANNEL BY CLARK DIETRICH BUILDING SYSTEMS
09 29 00.2.1	GYPSUM WALL BOARD SHALL BE 5/8" (TYP). PROVIDE TYPE 'WR' AT ALL TOILET ROOM AND WET WALL LOCATIONS. ALL OTHER LOCATIONS SHALL BE TYPE 'X' (TYP). PROVIDE MUDDABLE CORNER BEAD AND 'J' TRIM AT ALL EXPOSED DRYWALL END AND OPENING LOCATIONS. DRYWALL FINISH SHALL BE LEVEL 4 (TYP). PROVIDE CONTROL JOINTS AT 30FT O.C. (MAX) EQUALLY SPACED. PROVIDE CONTROL JOINTS AT ALL DOOR AND WINDOW LOCATIONS. WALLS SCHEDULED TO RECEIVE TILE FINISH SHALL BE CEMENT BACKER BOARD.
09 51 23.2.1	2x2 ACOUSTICAL TILE WITH 15/16" SUSPENDED GRID SHALL BE ARMSTRONG (OR EQUAL)
99 00 00.2.6	WINDOW CANOPY - REFER TO DETAIL 4/A2.1

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PROJECT:
DOING THE MOST GOOD
NILES FACILITY
1707 MILLER DR. NILES, MI 49120

WALL SECTIONS

SHEET TITLE:

MODELED BY: JCA, AND
DESIGNED BY: ARD
PM REVIEW: ARD
QA/QC REVIEW: MDN
DATE: 07/31/2023
SEAL: STATE OF MICHIGAN ARVIN RIC DELACRUZ ARCHITECT No. 1301060203 LICENSED ARCHITECT
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SHEET NO.
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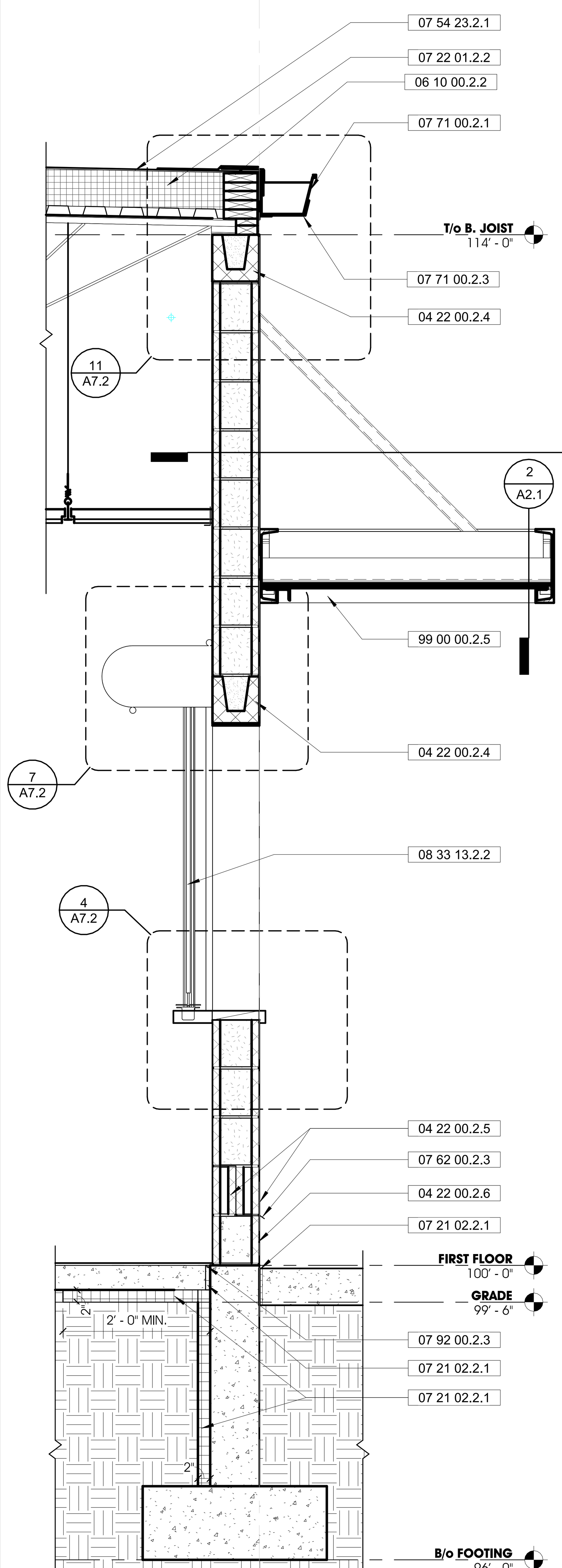
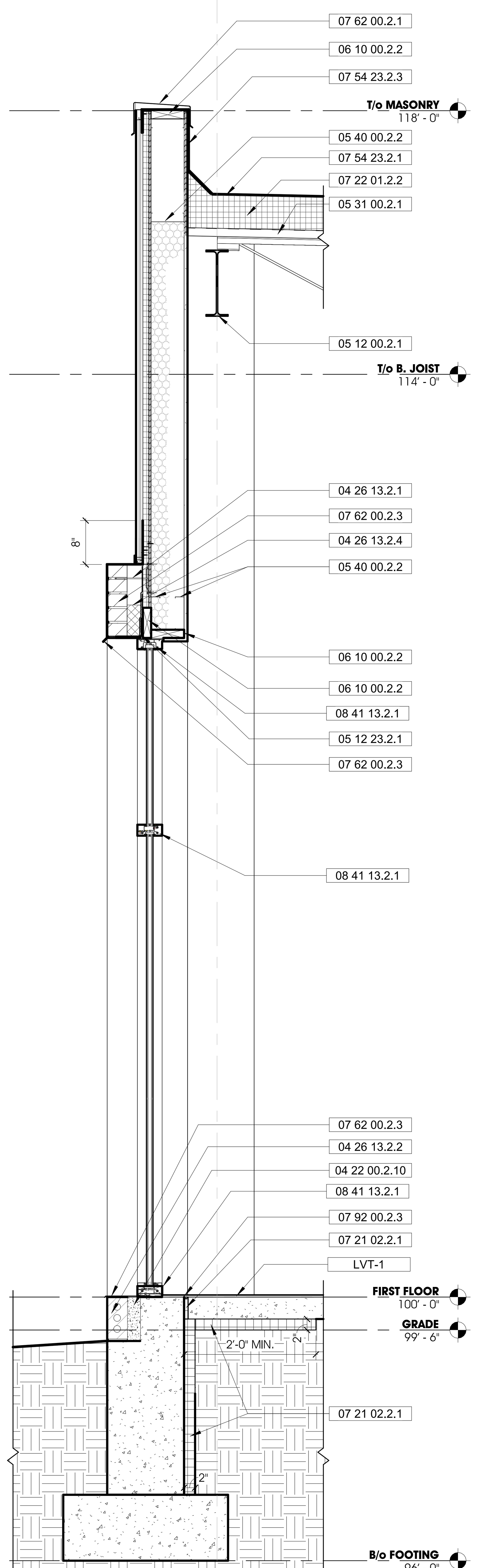


4
A6.2
TRANSVERSE BUILDING SECTION - EAST WALL SECTION 02
3/4" = 1'-0"



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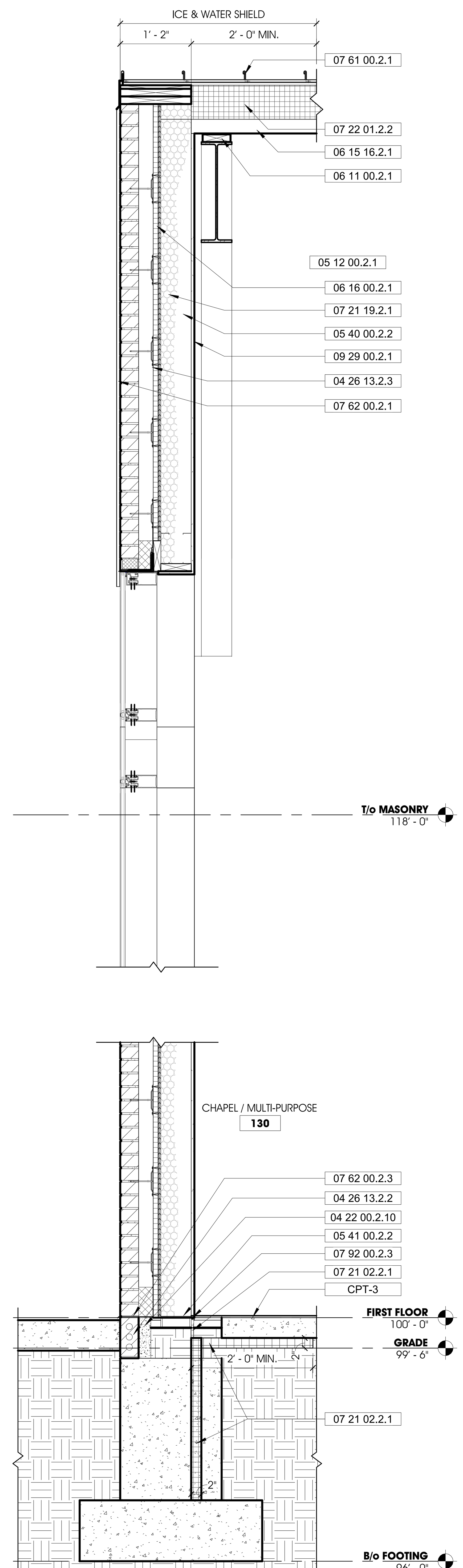
A6.2
TRANSVERSE BUILDING SECTION - WEST WALL SECTION
3/4" = 1'-0"



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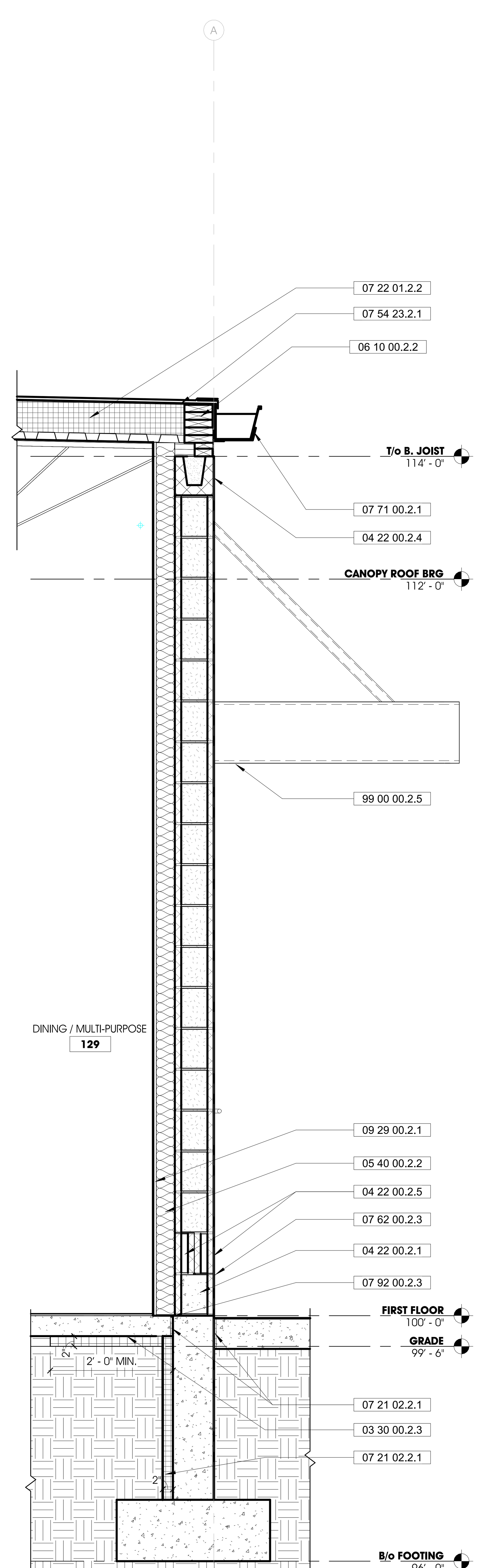
A6.2
LONGITUDINAL BUILDING SECTION - NORTH SECTION
3/4" = 1'-0"



1
A6.2
TRANSVERSE BUILDING SECTION - EAST WALL SECTION 01
3/4" = 1'-0"

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GENERAL NOTES - WALL SECTIONS

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G. ALL SPECIFIED ITEMS SHALL BE PROVIDED AND INSTALLED PER MANUFACTURERS WRITTEN REQUIREMENTS

KEYNOTE LEGEND

Key Value	Keynote Text
03 30 00.2.3	10 MIL STEGO UNDERSLAB VAPOR BARRIER SHALL BE INSTALLED CONTINUOUS UNDER ENTIRE SLAB PER MANUFACTURERS WRITTEN REQUIREMENTS - PROVIDE STEGO TAPE AT ALL EDGE LOCATIONS INCLUDING BUT NOT LIMITED TO PERIMETER, SEAMS, PENETRATIONS, AND PUNCTURES
04 22 00.2.1	CMU SHALL BE STANDARD GRAY WITH W.R. GRACE, DRYBLOCK INTEGRAL WATER REPELLENT (TYP). PROVIDE HORIZONTAL LADDER REINFORCING AT 16"" O.C. AND AT PERIMETER OF ALL OPENINGS. PROVIDE BLOCK FLASH AT WALL BASE AND ABOVE ALL BOND BEAMS (TYP). ALL CORES NOT SCHEDULED TO BE GROUTED SOLID SHALL BE INSULATED WITH PERLITE INSULATION - RUNNING BOND PATTERN
04 22 00.2.4	8" X 8" CMU BOND BEAM
04 22 00.2.5	4" X 8" X 12" CMU - 2 CORE
04 22 00.2.6	8" X 8" X 16" CMU - 2 CORE
04 22 00.2.10	GROUT SOLID
04 26 13.2.1	BRICK - RUNNING BOND - SHALL BE BELDEN 'BOYSTOWN MATT' (OR EQUAL) - PROVIDE HECKMAN TRIANGULAR TIES @ 24 O.C. (HORIZ) AND 16" O.C. (VERT). PROVIDE HORIZONTAL LADDER REINFORCING AT 16" O.C. AND AT PERIMETER OF ALL OPENINGS. PROVIDE MORTARNET CAVITY WALL DRAINAGE SYSTEM, STAINLESS STEEL FLASHING, AND CELLULAR WEEP VENTS AT 24" O.C. LOCATED AT TOP OF WALL, BOTTOM OF WALL, ABOVE ALL SHELF ANGLES AND LINTELS AND BELOW ALL WINDOW SILLS. PROVIDE CONTROL JOINTS (HORIZ) AT ALL SHELF ANGLES AND (VERT) AT BOTH SIDES OF ALL OPENING (FULL HEIGHT), BETWEEN DISSIMILAR MATERIALS AND OTHERWISE EQUALLY SPACED PER IMI WRITTEN REQUIRMENTS (U.N.O.)"
04 26 13.2.2	BRICK SOLDIER COURSE
04 26 13.2.3	HECKMAN TRIANGULAR TIES @ 24" O.C. (HORIZ) AND 16" O.C. (VERT). MASONRY TIES SHALL BE EMBEDDED WITHIN THE MASONRY SYSTEMS AND SHALL BE COATED AND CORROSION RESISTANT MATERIAL
04 26 13.2.4	MASONRY ACCESSORIES - MORTAR NET
05 12 00.2.1	STEEL BEAM - REFER TO STRUTURAL
05 12 23.2.1	STEEL ANGLE - REFER TO STRUCTURAL
05 31 00.2.1	STEEL ROOF DECKING - REFER TO STRUCTURAL
05 40 00.2.2	6" MTL STUD
05 41 00.2.2	
06 10 00.2.2	TREATED WOOD BLOCKING SHALL BE PROVIDED AT ALL LOCATIONS EXPOSED TO MOISTURE, EXTERIOR BUILDING ENVELOPE, ADJACENT TO CONCRETE OR MASONRY, AND AS OTHERWISE REQUIRED.
06 11 00.2.1	2X NAILER - REFER TO STRUCTURAL
06 15 16.2.1	3" x 6" DOUBLE T&G WOOD ROOF DECKING SHALL BE EXPOSED. FINISH SHALL BE SMOOTH AND FREE OF MANUFACTURER STAMPS AND MARKINGS. PROVIDE STAIN & VARNISH.
06 16 00.2.1	ZIP R-6 INSULATED WALL SHEATHING AND WEATHER BARRIER SYSTEM. PROVIDE ZIP SYSTEM TAPE AT ALL SEAMS AND BETWEEN ROOF AND WALL SHEATHING (TYP) FOR A COMPLETE WEATHER BARRIER SYSTEM BY HUBER ENGINEERED WOODS, www.huberwood.com, 1-800-933-9220
07 21 02.2.1	XPS RIGID INSULATION - PROVIDE TYPE IV AT ALL CAVITY WALL LOCATIONS, TYPE VI AT ALL FOUNDATION WALL LOCATIONS, AND TYPE VII AT ALL UNDER SLAB LOCATIONS
07 21 19.2.1	3" (MIN) CLOSED CELL SPRAY POLYURETHANE FOAM INSULATION AND VAPOR BARRIER SYSTEM
07 22 01.2.2	POLY ISO INSULATION AND COVER BOARD
07 54 23.2.1	THERMOPLASTIC-POLYOLEFIN ROOFING (TPO) SHALL BE FIRESTONE ULTRAPLY SINGLE PLY MEMBRANE (OR EQUAL). COLOR SHALL BE GRAY. PROVIDE POLY-ISO INSULATION AT ALL ROOF LOCATIONS AND INTEGRAL COVER BOARD. ALL MATERIALS AND ACCESSORIES, INCLUDING FLASHING SHALL BE SINGLE SOURCE. PROVIDE 20 YEAR RED SHIELD WARRANTY (WIND SPEEDS UP TO 72 MPH), SEPARATE 20 YEAR FIRESTONE ISO 95+ INSTALLATION WARRANTY WITH NO DOLLAR LIMIT.
07 54 23.2.3	TPO MEMBRANE ROOFING SHALL BE CONTINUOUS UP AND OVER PARAPET (TYP)
07 61 00.2.1	PAC-CLAD TITE-LOC-PLUS STANDING SEAM METAL ROOF - COLOR SHALL BE MIDNIGHT BRONZE
07 62 00.2.1	FASCIA, TRIM, COPING, ETC… SHALL BE .080 ALUMINUM. PROVIDE BUTT SEAMS WITH BACK UP PLATES (10 FT MAX LENGTH). CORNERS SHALL BE FULLY WELDED WITH 24" (MIN) RETURN. ALL FASTENERS SHALL BE CONCEALED. COLOR SHALL MATCH ADJACENT WALL FINISH (U.N.O.).
07 62 00.2.3	THROUGH WALL FLASHING
07 71 00.2.1	ALUMINUM GUTTER SHALL BE HEAVY DUTY. PROVIDE ADDITIONAL 1/8"x1 1/2" SUPPORT BRACKETS AT 36" O.C. GUTTER PROFILE SHALL BE 9"W x 7"D STYLE 'A' PER SMACNA ARCHITECTURAL SHEET METAL MANUAL. GUTTER AND SUPPORT BRACKET COLOR SHALL BE DARK BRONZE.
07 71 00.2.3	GUTTER BRACKET 1 1/2" X 1/8" @ 36" O.C.
07 92 00.2.3	SEALANT AND BACKER ROD SHALL BE PROVIDED BETWEEN ALL DISSIMILAR BUILDING ENVELOPE MATERIALS PER SEALANT MANUFACTURERS WRITTEN REQUIREMENTS. (TYP)
08 33 13.2.2	40" COILING COUNTER DOOR WITH (MANUAL) W/ INTEGRAL STAINLESS STEEL COUNTERTOP
08 41 13.2.1	ALUMINUM FRAMED STOREFRONTS SHALL BE TUBELITE 14000 SERIES. ALL EXTERIOR LOCATIONS SHALL HAVE THERMALLY BROKEN FRAMES WITH 1 INSULATED GLAZING. FRAME AND DOOR COLOR SHALL BE DARK BRONZE ANODIZED ALUMINUM. PROVIDE ACTUAL SAMPLE FOR FINAL APPROVAL. EXTERIOR DOORS SHALL BE INSULATED MEDIUM STILE WITH 5 " VERTICAL STILES AND TOP RAIL, AND 10" BOTTOM RAIL."
09 29 00.2.1	GYPSUM WALL BOARD SHALL BE 5/8" (TYP). PROVIDE TYPE 'WR' AT ALL TOILET ROOM AND WET WALL LOCATIONS. ALL OTHER LOCATIONS SHALL BE TYPE 'X' (TYP). PROVIDE MUDDABLE CORNER BEAD AND 'J' TRIM AT ALL EXPOSED DRYWALL END AND OPENING LOCATIONS. DRYWALL FINISH SHALL BE LEVEL 4 (TYP). PROVIDE CONTROL JOINTS AT 30FT O.C. (MAX) EQUALLY SPACED. PROVIDE CONTROL JOINTS AT ALL DOOR AND WINDOW LOCATIONS. WALLS SCHEDULED TO RECEIVE TILE FINISH SHALL BE CEMENT BACKER BOARD.
99 00 00.2.5	DOOR CANOPY - REFER TO DETAILS ON SHEET A2.1

NO.	REVISION DESCRIPTION	BY	DATE

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DOING THE MOST GOOD
NILES FACILITY
1707 MILLER DR. NILES, MI 49120

SHEET TITLE:
WALL SECTIONS

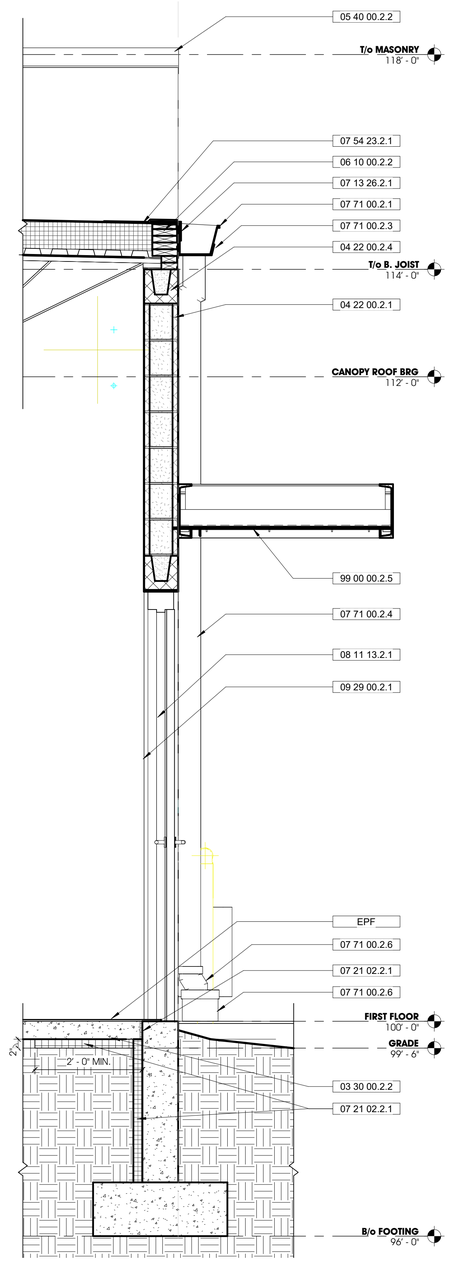
MODELED BY: JCA, AND
DESIGNED BY: ARD
PM REVIEW: ARD
QA/QC REVIEW: MDN
DATE: 07/31/2023
SEAL:
STATE OF MICHIGAN
ARVIN RIC DELACRUZ
ARCHITECT
No. 1301060203
LICENSED ARCHITECT
SIGNATURE:
DATE:

HARD COPY IS INTENDED TO BE 24" x 36" WHEN PLOTTED SCALE(S) INDICATED AND GRAPHIC QUALITY MAY NOT BE ACCURATE FOR ANY OTHER SIZES

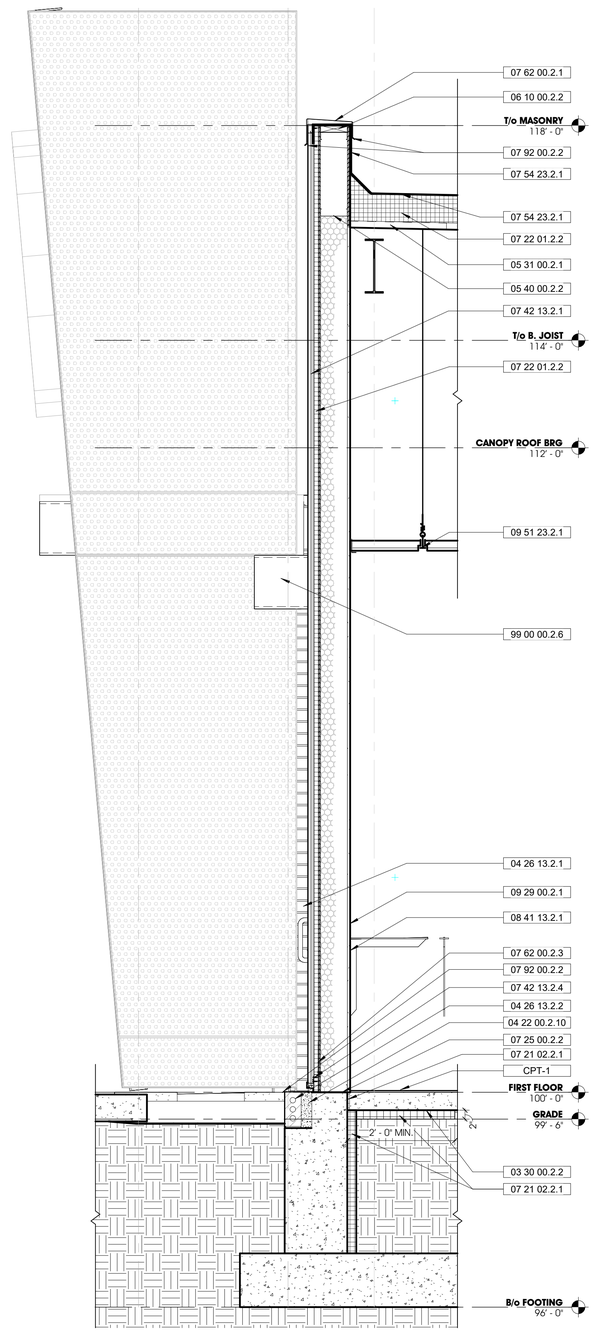
SCALE:
UNLESS NOTED OTHERWISE

ACI JOB #
22-0578

SHEET NO.
A6.2



2 A6.3 TRANSVERSE BUILDING SECTION - EAST WALL SECTION
3/4" = 1'-0"



1 A6.3 TRANSVERSE BUILDING SECTION - WEST WALL SECTION 01
3/4" = 1'-0"

GENERAL NOTES - WALL SECTIONS

A. ALL CONTRACTORS ARE RESPONSIBLE FOR PROVIDING COMPLETE INSTALLATION OF ALL COMPONENTS AND SHALL COORDINATE THEIR SCOPE OF WORK WITH ALL OTHER TRADES PRIOR TO SUBMITTING BIDS TO ENSURE THERE ARE NO MISSING OR DUPLICATE COMPONENTS WITH-IN THEIR SCOPE

B. DO NOT SCALE DRAWINGS. USE INDICATED DIMENSIONS ONLY.

C. SHOULD A CONTRACTOR FIND DISCREPANCIES OR AMBIGUITIES IN OR OMISSIONS FROM THE DRAWINGS OR SPECIFICATIONS, OR BE IN DOUBT ABOUT THEIR MEANING, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY.

D. CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE JOB DURING CONSTRUCTION LAYOUT AND ADVISE THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO PERFORMING ANY WORK.

E. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS ON-SITE AND ADVISING ARCHITECT OF ANY DISCREPANCIES WITH DEMOLITION OR NEW WORK PLANS PRIOR TO PERFORMING ANY WORK.

F. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY IF ANY UNFORESEEN STRUCTURAL OR UTILITY RELATED ISSUES ARISE DURING DEMOLITION OR EXCAVATION.

G. ALL SPECIFIED ITEMS SHALL BE PROVIDED AND INSTALLED PER MANUFACTURERS WRITTEN REQUIREMENTS

KEYNOTE LEGEND

Key Value	Keynote Text
03 30 00.2.2	INTERIOR CONCRETE SLAB OVER CONTINUOUS VAPOR BARRIER AND 6 PROPERLY COMPACTED BASE. CONCRETE SLAB - MIX DESIGN, CONCRETE REINFORCING, AND CONCRETE ACCESSORIES BY STRUCTURAL ENGINEER - PROVIDE CONCRETE DENSIFIER/HARDENER TO SEAL CONCRETE FLOOR - REFER TO STRUCTURAL"
04 22 00.2.1	CMU SHALL BE STANDARD GRAY WITH W.R. GRACE, DRYBLOCK INTEGRAL WATER REPELLENT (TYP). PROVIDE HORIZONTAL LADDER REINFORCING AT 16"" O.C. AND AT PERIMETER OF ALL OPENINGS. PROVIDE BLOCK FLASH AT WALL BASE AND ABOVE ALL BOND BEAMS (TYP). ALL CORES NOT SCHEDULED TO BE GROUTED SOLID SHALL BE INSULATED WITH PERLITE INSULATION - RUNNING BOND PATTERN
04 22 00.2.4	8" X 8" CMU BOND BEAM
04 22 00.2.10	GROUT SOLID
04 26 13.2.1	BRICK - RUNNING BOND - SHALL BE BELDEN 'BOYSTOWN MATT' (OR EQUAL) - PROVIDE HECKMAN TRIANGULAR TIES @ 24 O.C. (HORIZ) AND 16" O.C. (VERT). PROVIDE HORIZONTAL LADDER REINFORCING AT 16' O.C. AND AT PERIMETER OF ALL OPENINGS. PROVIDE MORTARNET CAVITY WALL DRAINAGE SYSTEM, STAINLESS STEEL FLASHING, AND CELLULAR WEEP VENTS AT 24" O.C. LOCATED AT TOP OF WALL, BOTTOM OF WALL, ABOVE ALL SHELF ANGLES AND LINTELS AND BELOW ALL WINDOW SILLS. PROVIDE CONTROL JOINTS (HORIZ) AT ALL SHELF ANGLES AND (VERT) AT BOTH SIDES OF ALL OPENING (FULL HEIGHT), BETWEEN DISSIMILAR MATERIALS AND OTHERWISE EQUALLY SPACED PER IMI WRITTEN REQUIRMENTS (U.N.O.)"
04 26 13.2.2	BRICK SOLDIER COURSE
05 31 00.2.1	STEEL ROOF DECKING - REFER TO STRUCTURAL
05 40 00.2.2	6" MTL STUD
06 10 00.2.2	TREATED WOOD BLOCKING SHALL BE PROVIDED AT ALL LOCATIONS EXPOSED TO MOISTURE, EXTERIOR BUILDING ENVELOPE, ADJACENT TO CONCRETE OR MASONRY, AND AS OTHERWISE REQUIRED.
07 13 26.2.1	PROVIDE ZIP SYSTEM STRETCH TAPE AT ALL OPENINGS, PENETRATIONS, ETC...
07 21 02.2.1	XPS RIGID INSULATION - PROVIDE TYPE IV AT ALL CAVITY WALL LOCATIONS, TYPE VI AT ALL FOUNDATION WALL LOCATIONS, AND TYPE VII AT ALL UNDER SLAB LOCATIONS
07 22 01..2.2	POLY ISO INSULATION AND COVER BOARD
07 25 00.2.2	GRACE ICE AND WATER SHIELD SHALL BE PROVIDED AT ROOF EAVES, RAKES, RIDGES, VALLEYS, PENETRATIONS ETC... PER MANUFACTURERS WRITTEN REQUIREMENTS. PROVIDE DOUBLE LAYER AT ALL EAVE LOCATIONS AND WHERE RECOMMENDED BY MANUFACTURER (TYP)
07 42 13.2.1	METAL WALL PANELS SHALL BE DRI-DESIGN PAINTED ALUMINUM. PANELS WIDTH SHALL BE 2FT (U.N.O.). PANEL LENGTH SHALL BE 3FT, 6FT, AND 9FT w/ 1/3RD STAGGARD PATTERN. COLOR SHALL BE RANDOM PATTERN OF (4) CUSTOM SHADES OF RED TO MATCH ARCHITECT SAMPLES
07 42 13.2.4	DRI-DESIGN (TYP) SILL DETAIL
07 54 23.2.1	THERMOPLASTIC-POLYOLEFIN ROOFING (TPO) SHALL BE FIRESTONE ULTRAPLY SINGLE PLY MEMBRANE (OR EQUAL). COLOR SHALL BE GRAY. PROVIDE POLY-ISO INSULATION AT ALL ROOF LOCATIONS AND INTEGRAL COVER BOARD. ALL MATERIALS AND ACCESSORIES, INCLUDING FLASHING SHALL BE SINGLE SOURCE. PROVIDE 20 YEAR RED SHIELD WARRANTY (WIND SPEEDS UP TO 72 MPH), SEPARATE 20 YEAR FIRESTONE ISO 95+ INSTALLATION WARRANTY WITH NO DOLLAR LIMIT.
07 62 00.2.1	FASCIA, TRIM, COPING, ETC... SHALL BE .080 ALUMINUM. PROVIDE BUTT SEAMS WITH BACK UP PLATES (10 FT MAX LENGTH). CORNERS SHALL BE FULLY WELDED WITH 24" (MIN) RETURN. ALL FASTENERS SHALL BE CONCEALED. COLOR SHALL MATCH ADJACENT WALL FINISH (U.N.O.).
07 62 00.2.3	THROUGH WALL FLASHING
07 71 00.2.1	ALUMINUM GUTTER SHALL BE HEAVY DUTY. PROVIDE ADDITIONAL 1/8"x1 1/2" SUPPORT BRACKETS AT 36" O.C. GUTTER PROFILE SHALL BE 9"W x 7"D STYLE 'A' PER SMACNA ARCHITECTURAL SHEET METAL MANUAL. GUTTER AND SUPPORT BRACKET COLOR SHALL BE DARK BRONZE.
07 71 00.2.3	GUTTER BRACKET 1 1/2" X 1/8" @ 36" O.C.
07 71 00.2.4	ALUMINUM DOWNSPOUT SHALL BE HEAVY DUTY, SMOOTH, 4" x 4" RECTANGULAR SHAPE. COLOR SHALL BE DARK BRONZE.
07 71 00.2.6	DOWNSPOUT BOOT TIE INTO STORM WATER PIPING - REFER TO CIVIL DRAWINGS
07 92 00.2.2	SEALANT SHALL BE CONTINUOUS (TYP)
08 11 13.2.1	HOLLOW METAL DOORS SHALL BE CECO HEAVY DUTY OR EQUAL. EXTERIOR LOCATIONS SHALL BE INSULATED AND GALVANIZED. COLOR SHALL BE SELECTED BY OWNER. PROVIDE RATED DOORS AT RATED WALLS.
08 41 13.2.1	ALUMINUM FRAMED STOREFRONTS SHALL BE TUBELITE 14000 SERIES. ALL EXTERIOR LOCATIONS SHALL HAVE THERMALLY BROKEN FRAMES WITH 1 INSULATED GLAZING. FRAME AND DOOR COLOR SHALL BE DARK BRONZE ANODIZED ALUMINUM. PROVIDE ACTUAL SAMPLE FOR FINAL APPROVAL. EXTERIOR DOORS SHALL BE INSULATED MEDIUM STILE WITH 5 " VERTICAL STILES AND TOP RAIL, AND 10" BOTTOM RAIL."
09 29 00.2.1	GYPSUM WALL BOARD SHALL BE 5/8" (TYP). PROVIDE TYPE 'WR' AT ALL TOILET ROOM AND WET WALL LOCATIONS. ALL OTHER LOCATIONS SHALL BE TYPE 'X' (TYP). PROVIDE MUDDABLE CORNER BEAD AND 'J' TRIM AT ALL EXPOSED DRYWALL END AND OPENING LOCATIONS. DRYWALL FINISH SHALL BE LEVEL 4 (TYP). PROVIDE CONTROL JOINTS AT 30FT O.C. (MAX) EQUALLY SPACED. PROVIDE CONTROL JOINTS AT ALL DOOR AND WINDOW LOCATIONS. WALLS SCHEDULED TO RECEIVE TILE FINISH SHALL BE CEMENT BACKER BOARD.
09 51 23.2.1	2x2 ACOUSTICAL TILE WITH 15/16" SUSPENDED GRID SHALL BE ARMSTRONG (OR EQUAL)
99 00 00.2.5	DOOR CANOPY - REFER TO DETAILS ON SHEET A2.1
99 00 00.2.6	WINDOW CANOPY - REFER TO DETAIL 4/A2.1

NO.	REVISION DESCRIPTION	BY	DATE

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Engineering, Architecture, Land Surveying

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1707 MILLER DR. NILES, MI 49120

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SHEET NO.
A6.3

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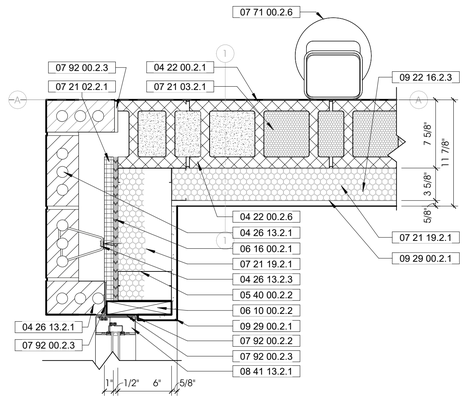
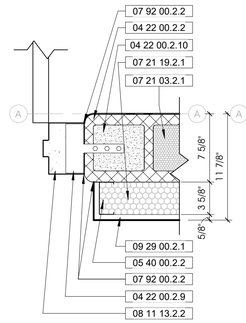


13 A1.1 DETAIL @ BRICK & METAL STUD OUTSIDE CORNER
SCALE: 1 1/2" = 1'-0"



12 A1.1 DETAIL @ DOOR & CMU / FURRED OUT WALL
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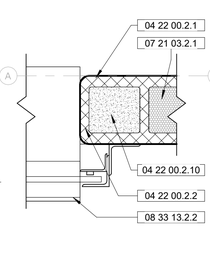

11 A1.1 DETAIL @ SERVICE WINDOW & CMU
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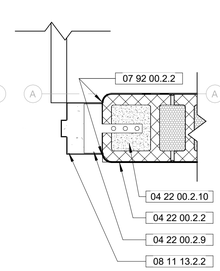

10 A1.1 DETAIL @ DOOR & CMU
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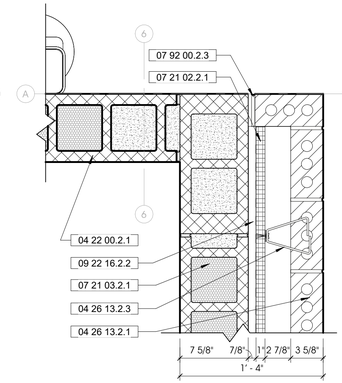

9 A1.1 DETAIL @ BRICK & CMU OUTSIDE CORNER
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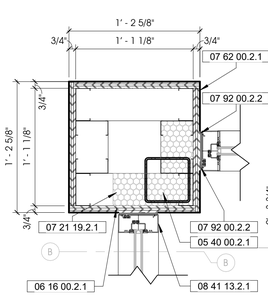
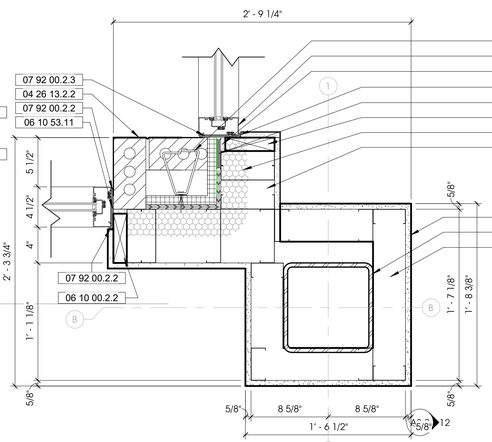
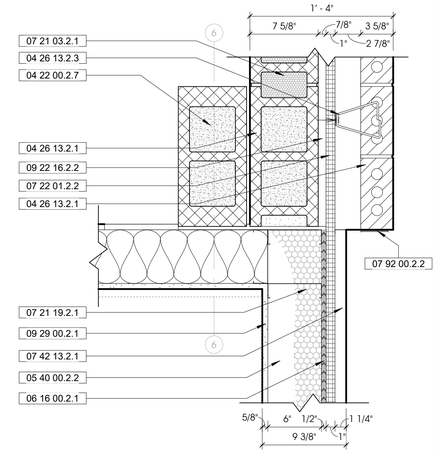


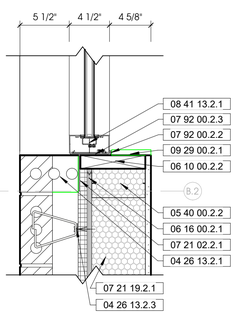


8 A1.1 DETAIL @ STOREFRONT CORNER
SCALE: 1 1/2" = 1'-0"

7 A1.1 DETAIL @ STOREFRONT & BRICK
SCALE: 1 1/2" = 1'-0"



6 A1.1 DETAIL @ M.P. & BRICK
SCALE: 1 1/2" = 1'-0"



15 A1.1 DETAIL @ STOREFRONT WALL
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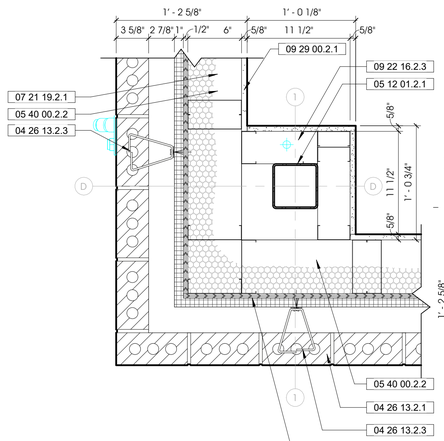

5 A1.1 DETAIL @ BRICK OUTSIDE CORNER
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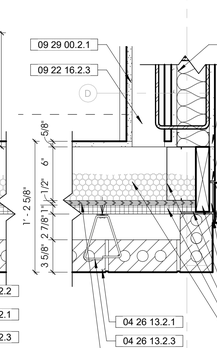

4 A1.1 DETAIL @ ENTRY BRICK & STOREFRONT
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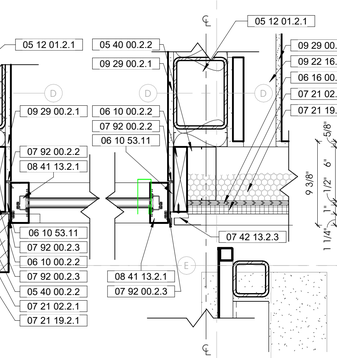

3 A1.1 DETAIL @ ENTRY M.P. AND STOREFRONT
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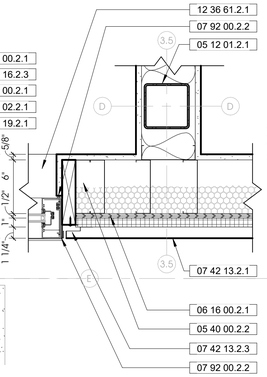
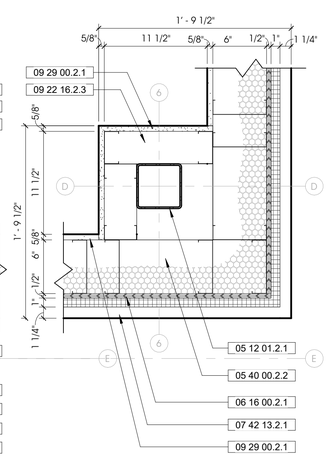


2 A1.1 DETAIL @ M.P. & STOREFRONT
SCALE: 1 1/2" = 1'-0"



1 A1.1 DETAIL @ M.P. OUTSIDE CORNER
SCALE: 1 1/2" = 1'-0"

GENERAL NOTES - PLAN DETAILS

A. BUILDING ENVELOPE SHALL BE WEATHERTIGHT.

B. PROVIDE SEALANT BETWEEN ALL DISSIMILAR MATERIALS. PROVIDE BACKER ROD WHERE REQUIRED. INSTALL PER MANUFACTURER'S WRITTEN REQUIREMENTS.

KEYNOTE LEGEND

Key Value	Keynote Text
04 22 00.2.1	CMU SHALL BE STANDARD GRAY WITH W.R. GRACE, DRYBLOCK INTEGRAL WATER REPELLENT (TYP). PROVIDE HORIZONTAL LADDER REINFORCING AT 16" O.C. AND AT PERIMETER OF ALL OPENINGS. PROVIDE BLOCK FLASH AT WALL BASE AND ABOVE ALL BOND BEAMS (TYP). ALL CORES NOT SCHEDULED TO BE GROUTED SOLID SHALL BE INSULATED WITH PERLITE INSULATION - RUNNING BOND PATTERN
04 22 00.2.2	PROVIDE 1" BULLNOSE CMU AT ALL WALL OPENING JAMB LOCATIONS (TYP)
04 22 00.2.6	8" X 8" X 16" CMU - 2 CORE
04 22 00.2.7	CMU PILASTER - REFER TO STRUCTURAL
04 22 00.2.9	MASONRY "T" ANCHOR"
04 22 00.2.10	GROUT SOLID
04 26 13.2.1	BRICK - RUNNING BOND - SHALL BE BELDEN 'BOYSTOWN MATT' (OR EQUAL) - PROVIDE HECKMAN TRIANGULAR TIES @ 24 O.C. (HORIZ) AND 16" O.C. (VERT). PROVIDE HORIZONTAL LADDER REINFORCING AT 16" O.C. AND AT PERIMETER OF ALL OPENINGS. PROVIDE MORTARNET CAVITY WALL DRAINAGE SYSTEM, STAINLESS STEEL FLASHING, AND CELLULAR WEEP VENTS AT 24" O.C. LOCATED AT TOP OF WALL, BOTTOM OF WALL, ABOVE ALL SHELF ANGLES AND LINTELS AND BELOW ALL WINDOW SILLS. PROVIDE CONTROL JOINTS (HORIZ) AT ALL SHELF ANGLES AND (VERT) AT BOTH SIDES OF ALL OPENING (FULL HEIGHT), BETWEEN DISSIMILAR MATERIALS AND OTHERWISE EQUALLY SPACED PER IMI WRITTEN REQUIRMENTS (U.N.O.)"
04 26 13.2.2	BRICK SOLDER COURSE
04 26 13.2.3	HECKMAN TRIANGULAR TIES @ 24" O.C. (HORIZ) AND 16" O.C. (VERT). MASONRY TIES SHALL BE EMBEDDED WITHIN THE MASONRY SYSTEMS AND SHALL BE COATED AND CORROSION RESISTANT MATERIAL
05 12 01.2.1	STEEL COLUMN - REFER TO STRUTURAL
05 40 00.2.1	3-5/8" MTL STUD
05 40 00.2.2	6" MTL STUD
06 10 00.2.2	TREATED WOOD BLOCKING SHALL BE PROVIDED AT ALL LOCATIONS EXPOSED TO MOISTURE, EXTERIOR BUILDING ENVELOPE, ADJACENT TO CONCRETE OR MASONRY, AND AS OTHERWISE REQUIRED.
06 10 53.11	MISC. ROUGH CARPENTRY - SHIMS & FURRING
06 16 00.2.1	ZIP R-6 INSULATED WALL SHEATHING AND WEATHER BARRIER SYSTEM. PROVIDE ZIP SYSTEM TAPE AT ALL SEAMS AND BETWEEN ROOF AND WALL SHEATHING (TYP) FOR A COMPLETE WEATHER BARRIER SYSTEM BY HUBER ENGINEERED WOODS, www.huberwood.com, 1-800-933-9220
07 21 02.2.1	XPS RIGID INSULATION - PROVIDE TYPE IV AT ALL CAVITY WALL LOCATIONS, TYPE VI AT ALL FOUNDATION WALL LOCATIONS, AND TYPE VII AT ALL UNDER SLAB LOCATIONS
07 21 03.2.1	PROVIDE FULL HEIGHT PERLITE INSULATION IN ALL CMU WALL CORES NOT GROUTED SOLID
07 21 19.2.1	3" (MIN) CLOSED CELL SPRAY POLYURETHANE FOAM INSULATION AND VAPOR BARRIER SYSTEM
07 22 01.2.2	POLY ISO INSULATION AND COVER BOARD
07 42 13.2.1	METAL WALL PANELS SHALL BE DRI-DESIGN PAINTED ALUMINUM. PANELS WIDTH SHALL BE 2FT (U.N.O.). PANEL LENGTH SHALL BE 3FT, 4FT, AND 9FT w/ 1/3RD STAGGARD PATTERN. COLOR SHALL BE RANDOM PATTERN OF (4) CUSTOM SHADES OF RED TO MATCH ARCHITECT SAMPLES
07 42 13.2.3	DRI-DESIGN JAMB DETAIL 8A
07 62 00.2.1	FASCIA, TRIM, COPING, ETC… SHALL BE .080 ALUMINUM. PROVIDE BUTT SEAMS WITH BACK UP PLATES (10 FT MAX LENGTH). CORNERS SHALL BE FULLY WELDED WITH 24" (MIN) RETURN. ALL FASTENERS SHALL BE CONCEALED. COLOR SHALL MATCH ADJACENT WALL FINISH (U.N.O.).
07 71 00.2.6	DOWNSPOUT BOOT TIE INTO STORM WATER PIPING - REFER TO CIVIL DRAWINGS
07 92 00.2.2	SEALANT SHALL BE CONTINUOUS (TYP)
07 92 00.2.3	SEALANT AND BACKER ROD SHALL BE PROVIDED BETWEEN ALL DISSIMILAR BUILDING ENVELOPE MATERIALS PER SEALANT MANUFACTURER'S WRITTEN REQUIREMENTS. (TYP)
08 11 13.2.2	HOLLOW METAL FRAMES SHALL BE CECO HEAVY DUTY OR EQUAL. HOLLOW METAL FRAMES SHALL BE FULLY WELDED. COLOR SHALL BE SELECTED BY OWNER. PROVIDE RATED FRAMES AT RATED WALLS. EXTERIOR FRAMES SHALL BE INSULATED AND GALVANIZED - PROVIDE RATED FRAMES AT RATED WALLS (TYP)
08 33 13.2.2	40" COILING COUNTER DOOR WITH (MANUAL) W/ INTEGRAL STAINLESS STEEL COUNTERTOP
08 41 13.2.1	ALUMINUM FRAMED STOREFRONTS SHALL BE TUBELITE 14000 SERIES. ALL EXTERIOR LOCATIONS SHALL HAVE THERMALLY BROKEN FRAMES WITH 1 INSULATED GLAZING. FRAME AND DOOR COLOR SHALL BE DARK BRONZE ANODIZED ALUMINUM. PROVIDE ACTUAL SAMPLE FOR FINAL APPROVAL. EXTERIOR DOORS SHALL BE INSULATED MEDIUM STILE WITH 5 " VERTICAL STILES AND TOP RAIL, AND 10 " BOTTOM RAIL."
09 22 16.2.2	7/8" HAT CHANNEL BY CLARK DIETRICH BUILDING SYSTEMS
09 22 16.2.3	3 5/8" METAL STUD. BY CLARK DIETRICH BUILDING SYSTEMS. PROVIDE COLD FORMED GALVANIZED STEEL PROSTUD C-STUDS, AND PROTRAK RUNNER AND DRYWALL TRACK. PROVIDE SLIP TYPE HEAD JOINT SLOTTED DEFLECTION TRACK AT ALL LOCATIONS (TYP).
09 29 00.2.1	GYPSUM WALL BOARD SHALL BE 5/8" (TYP). PROVIDE TYPE 'WR' AT ALL TOILET ROOM AND WET WALL LOCATIONS. ALL OTHER LOCATIONS SHALL BE TYPE 'X' (TYP). PROVIDE MUDDABLE CORNER BEAD AND 'J' TRIM AT ALL EXPOSED DRYWALL END AND OPENING LOCATIONS. DRYWALL FINISH SHALL BE LEVEL 4 (TYP). PROVIDE CONTROL JOINTS AT 30FT O.C. (MAX) EQUALLY SPACED. PROVIDE CONTROL JOINTS AT ALL DOOR AND WINDOW LOCATIONS. WALLS SCHEDULED TO RECEIVE TILE FINISH SHALL BE CEMENT BACKER BOARD.
12 36 61.2.1	WINDOW STOOL SHALL BE SOLID SURFACE - REFER TO SHEET A8.1

NO.	REVISION DESCRIPTION	BY	DATE

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Goshen
Hobart
Lafayette
Schererville
Valparaiso
Engineering, Architecture, Land Surveying

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PROJECT:
DOING THE MOST GOOD
NILES FACILITY
1707 MILLER DR. NILES, MI
49120

PLAN DETAILS

SHEET TITLE:

MODELED BY: JCA, AND
DESIGNED BY: ARD
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QA/QC REVIEW: MDN
DATE: 07/31/2023
SEAL: STATE OF MICHIGAN ARVIN RIC DELACRUZ ARCHITECT No. 1301060203 LICENSED ARCHITECT
SIGNATURE:
DATE:

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SCALE:
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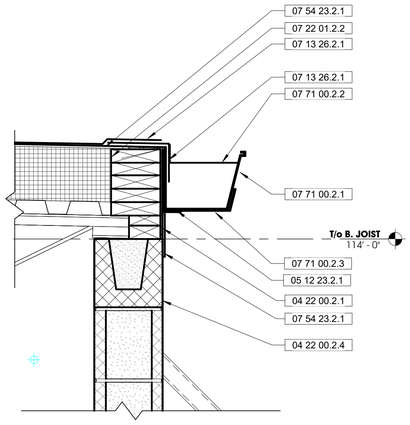
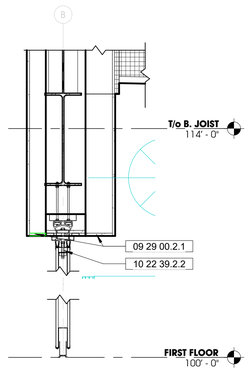
ACI JOB #
22-0578

SHEET NO.
A7.1

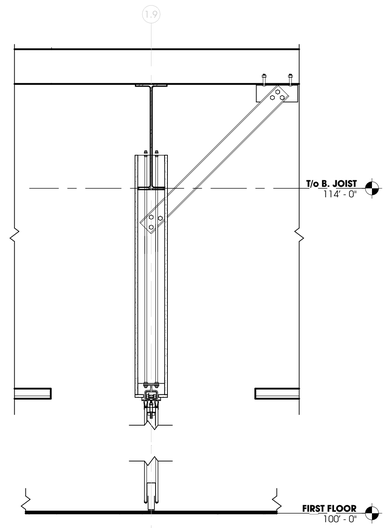
7/27/2023 4:45:11 PM O:\Projects\2022\22-0578 Salvation Army - Niles Bldg\1 Drawing Files_Arch_Revit



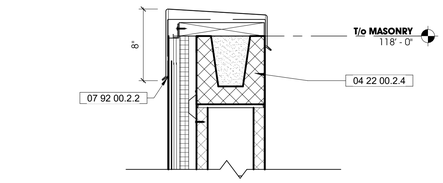
11 A7.2 TOP OF CMU WALL DETAIL
1 1/2" = 1'-0"



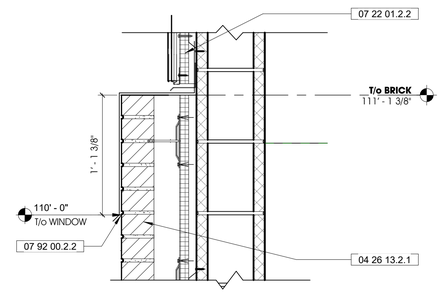
10 A7.2 DETAIL - PARTITION WALL SECTION @ CHAPEL
3/4" = 1'-0"



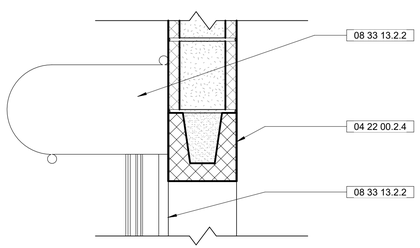
9 A7.2 DETAIL - PARTITION WALL SECTION @ MULTI-PURPOSE
3/4" = 1'-0"



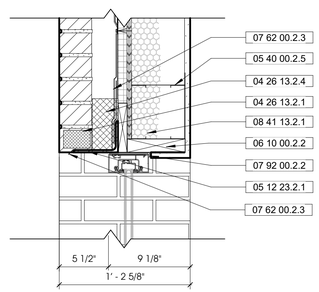
12 A7.2 EXTERIOR WALL - METAL PANEL OVER CMU PARAPET DETAIL
1 1/2" = 1'-0"



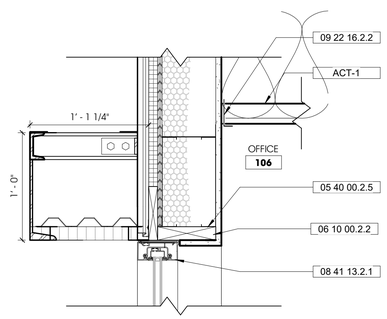
8 A7.2 EXTERIOR WALL - BRICK TO METAL PANEL TRANSITION DETAIL
1 1/2" = 1'-0"



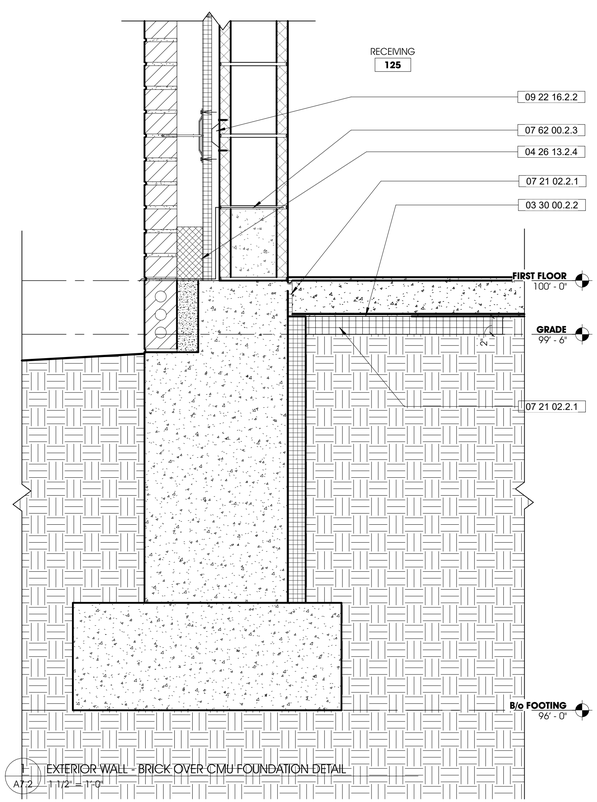
7 A7.2 EXTERIOR SERVICE WINDOW - HEAD
1 1/2" = 1'-0"



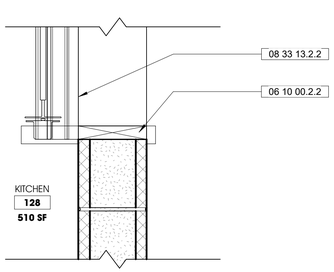
6 A7.2 EXTERIOR STOREFRONT - BRICK HEAD DETAIL
1 1/2" = 1'-0"



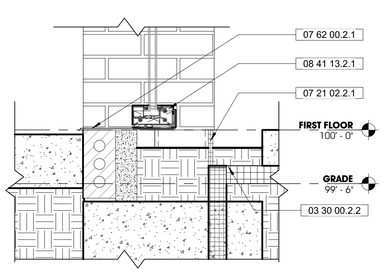
5 A7.2 EXTERIOR STOREFRONT - METAL PANEL HEAD DETAIL
1 1/2" = 1'-0"



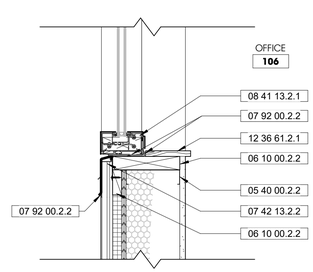
1 A7.2 EXTERIOR WALL - BRICK OVER CMU FOUNDATION DETAIL
1 1/2" = 1'-0"



4 A7.2 EXTERIOR SERVICE WINDOW - SILL
1 1/2" = 1'-0"



3 A7.2 EXTERIOR STOREFRONT - BRICK SILL DETAIL
1 1/2" = 1'-0"



2 A7.2 EXTERIOR STOREFRONT - METAL PANEL SILL DETAIL
1 1/2" = 1'-0"

GENERAL NOTES - DETAILS

A. BUILDING ENVELOPE SHALL BE WEATHER PROOF. PROVIDE SELF ADHERED FLEXIBLE FLASHING @ ALL OPENINGS, CONTINUOUS WEATHER BARRIER AT WALLS, ETC...

B. ROOF MEMBRANE SHALL BE CONTINUOUS UP OVER PARAPETS (TYPICAL). EXTEND MEMBRANE 6" (MIN) DOWN EXTERIOR FACE OF WALL BEHIND COPING/ METAL WALL PANEL.

C. PROVIDE FLASHING ABOVE ALL OPENINGS

KEYNOTE LEGEND

Key Value	Keynote Text
03 30 00.2.2	INTERIOR CONCRETE SLAB OVER CONTINUOUS VAPOR BARRIER AND 6 PROPERLY COMPACTED BASE. CONCRETE SLAB - MIX DESIGN, CONCRETE REINFORCING, AND CONCRETE ACCESSORIES BY STRUCTURAL ENGINEER - PROVIDE CONCRETE DENSIFIER/HARDENER TO SEAL CONCRETE FLOOR - REFER TO STRUCTURAL"
04 22 00.2.1	CMU SHALL BE STANDARD GRAY WITH W.R. GRACE, DRYBLOCK INTEGRAL WATER REPELLENT (TYP). PROVIDE HORIZONTAL LADDER REINFORCING AT 16"" O.C. AND AT PERIMETER OF ALL OPENINGS. PROVIDE BLOCK FLASH AT WALL BASE AND ABOVE ALL BOND BEAMS (TYP). ALL CORES NOT SCHEDULED TO BE GROUTED SOLID SHALL BE INSULATED WITH PERLITE INSULATION - RUNNING BOND PATTERN
04 22 00.2.4	8" X 8" CMU BOND BEAM
04 26 13.2.1	BRICK - RUNNING BOND - SHALL BE BELDEN 'BOYSTOWN MATT' (OR EQUAL) - PROVIDE HECKMAN TRIANGULAR TIES @ 24 O.C. (HORIZ) AND 16" O.C. (VERT). PROVIDE HORIZONTAL LADDER REINFORCING AT 16" O.C. AND AT PERIMETER OF ALL OPENINGS. PROVIDE MORTARNET CAVITY WALL DRAINAGE SYSTEM, STAINLESS STEEL FLASHING, AND CELLULAR WEEP VENTS AT 24" O.C. LOCATED AT TOP OF WALL, BOTTOM OF WALL, ABOVE ALL SHELF ANGLES AND LINTELS AND BELOW ALL WINDOW SILLS. PROVIDE CONTROL JOINTS (HORIZ) AT ALL SHELF ANGLES AND (VERT) AT BOTH SIDES OF ALL OPENING (FULL HEIGHT), BETWEEN DISSIMILAR MATERIALS AND OTHERWISE EQUALLY SPACED PER IMI WRITTEN REQUIRMENTS (U.N.O.)"
04 26 13.2.4	MASONRY ACCESSORIES - MORTAR NET
05 12 23.2.1	STEEL ANGLE - REFER TO STRUCTURAL
05 40 00.2.2	6" MTL STUD
05 40 00.2.5	STEEL HEADER - REFER TO STRUCTURAL
06 10 00.2.2	TREATED WOOD BLOCKING SHALL BE PROVIDED AT ALL LOCATIONS EXPOSED TO MOISTURE, EXTERIOR BUILDING ENVELOPE, ADJACENT TO CONCRETE OR MASONRY, AND AS OTHERWISE REQUIRED.
07 13 26.2.1	PROVIDE ZIP SYSTEM STRETCH TAPE AT ALL OPENINGS, PENETRATIONS, ETC....
07 21 02.2.1	XPS RIGID INSULATION - PROVIDE TYPE IV AT ALL CAVITY WALL LOCATIONS, TYPE VI AT ALL FOUNDATION WALL LOCATIONS, AND TYPE VII AT ALL UNDER SLAB LOCATIONS
07 22 01.2.2	POLY ISO INSULATION AND COVER BOARD
07 42 13.2.2	DRI-DESIGN 5B - PANEL HEAD @ STOREFRONT SILL
07 54 23.2.1	THERMOPLASTIC-POLYOLEFIN ROOFING (TPO) SHALL BE FIRESTONE ULTRAPLY SINGLE PLY MEMBRANE (OR EQUAL). COLOR SHALL BE GRAY. PROVIDE POLY-ISO INSULATION AT ALL ROOF LOCATIONS AND INTEGRAL COVER BOARD. ALL MATERIALS AND ACCESSORIES, INCLUDING FLASHING SHALL BE SINGLE SOURCE. PROVIDE 20 YEAR RED SHIELD WARRANTY (WIND SPEEDS UP TO 72 MPH). SEPARATE 20 YEAR FIRESTONE ISO 95+ INSTALLATION WARRANTY WITH NO DOLLAR LIMIT.
07 62 00.2.1	FASCIA, TRIM, COPING, ETC... SHALL BE .080 ALUMINUM. PROVIDE BUTT SEAMS WITH BACK UP PLATES (10 FT MAX LENGTH). CORNERS SHALL BE FULLY WELDED WITH 24" (MIN) RETURN. ALL FASTENERS SHALL BE CONCEALED. COLOR SHALL MATCH ADJACENT WALL FINISH (U.N.O.).
07 62 00.2.3	THROUGH WALL FLASHING
07 71 00.2.1	ALUMINUM GUTTER SHALL BE HEAVY DUTY. PROVIDE ADDITIONAL 1/8"x1 1/2" SUPPORT BRACKETS AT 36" O.C. GUTTER PROFILE SHALL BE 9"W x 7"D STYLE 'A' PER SMACNA ARCHITECTURAL SHEET METAL MANUAL. GUTTER AND SUPPORT BRACKET COLOR SHALL BE DARK BRONZE.
07 71 00.2.2	Gutter Hanger
07 71 00.2.3	GUTTER BRACKET 1 1/2" X 1/8" @ 36" O.C.
07 92 00.2.2	SEALANT SHALL BE CONTINUOUS (TYP)
08 33 13.2.2	40" COILING COUNTER DOOR WITH (MANUAL) W/ INTEGRAL STAINLESS STEEL COUNTERTOP
08 41 13.2.1	ALUMINUM FRAMED STOREFRONTS SHALL BE TUBELITE 14000 SERIES. ALL EXTERIOR LOCATIONS SHALL HAVE THERMALLY BROKEN FRAMES WITH 1 INSULATED GLAZING. FRAME AND DOOR COLOR SHALL BE DARK BRONZE ANODIZED ALUMINUM. PROVIDE ACTUAL SAMPLE FOR FINAL APPROVAL. EXTERIOR DOORS SHALL BE INSULATED MEDIUM STILE WITH 5 " VERTICAL STILES AND TOP RAIL, AND 10" BOTTOM RAIL."
09 22 16.2.2	7/8" HAT CHANNEL BY CLARK DIETRICH BUILDING SYSTEMS
09 29 00.2.1	GYPSUM WALL BOARD SHALL BE 5/8" (TYP). PROVIDE TYPE 'WR' AT ALL TOILET ROOM AND WET WALL LOCATIONS. ALL OTHER LOCATIONS SHALL BE TYPE 'X' (TYP). PROVIDE MUDDABLE CORNER BEAD AND 'J' TRIM AT ALL EXPOSED DRYWALL END AND OPENING LOCATIONS. DRYWALL FINISH SHALL BE LEVEL 4 (TYP). PROVIDE CONTROL JOINTS AT 30FT O.C. (MAX) EQUALLY SPACED. PROVIDE CONTROL JOINTS AT ALL DOOR AND WINDOW LOCATIONS. WALLS SCHEDULED TO RECEIVE TILE FINISH SHALL BE CEMENT BACKER BOARD.
10 22 39.2.2	12FT HIGH FOLDING PARTITION WALL
12 36 61.2.1	WINDOW STOOL SHALL BE SOLID SURFACE - REFER TO SHEET A8.1

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Southwest
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Engineering, Architecture, Land Surveying

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PROJECT:

DOING THE MOST GOOD

NILES FACILITY
1707 MILLER DR. NILES, MI
49120

SECTION DETAILS

SHEET TITLE:

MODELED BY: JCA, AND
DESIGNED BY: ARD
PM REVIEW: ARD
QA/QC REVIEW: MDN
DATE: 07/31/2023
SEAL: STATE OF MICHIGAN ARVIN RIC DELACRUZ ARCHITECT No. 1301060203 LICENSED ARCHITECT
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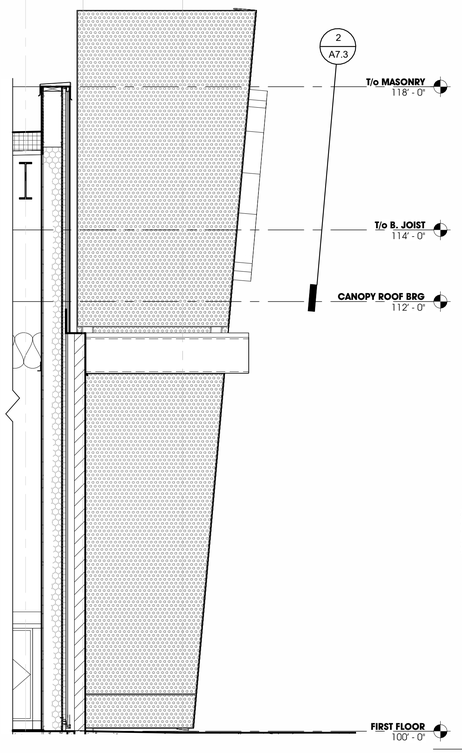
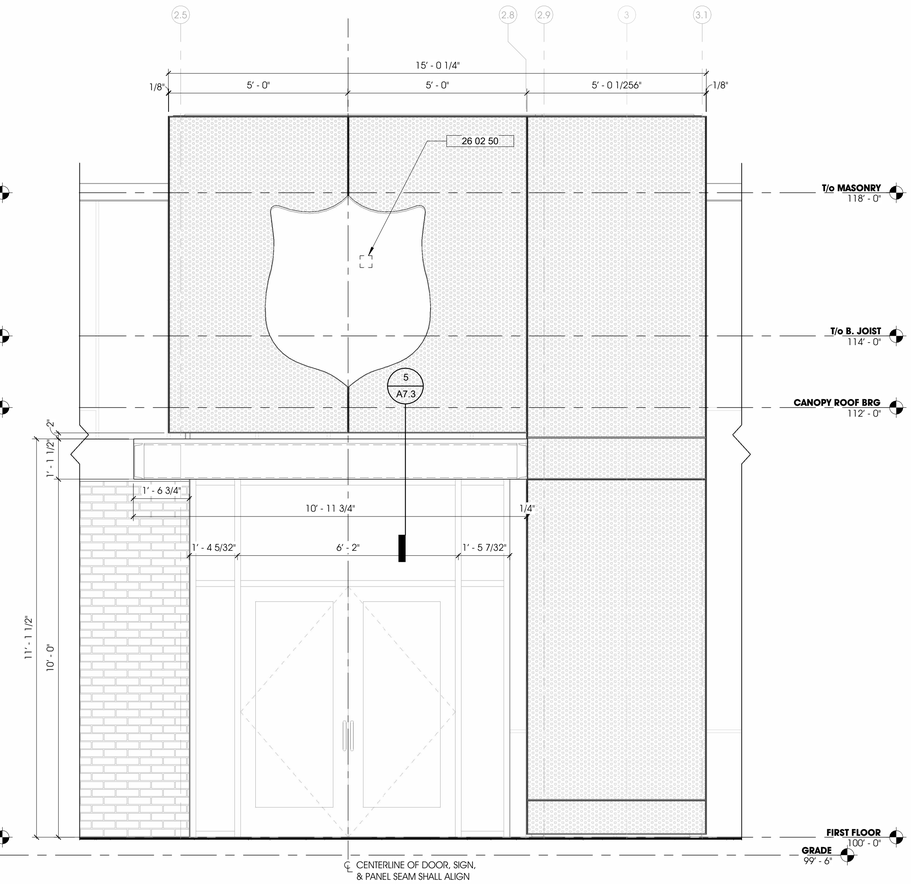


8 A7.3 ENTRY - NORTH ELEVATION
1/2" = 1'-0"



7 A7.3 ENTRY - WEST ELEVATION
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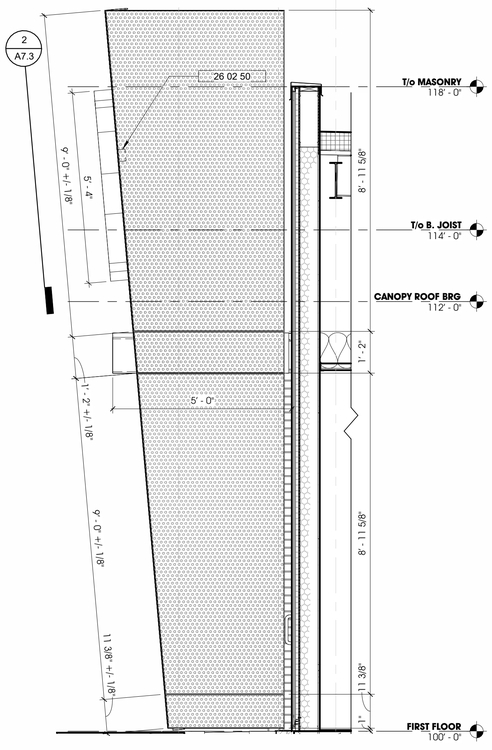
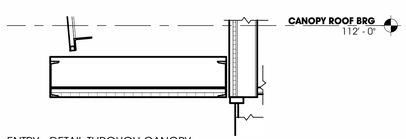
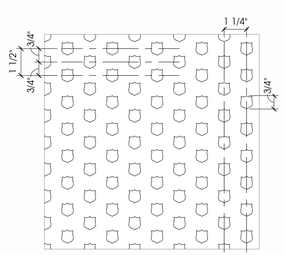


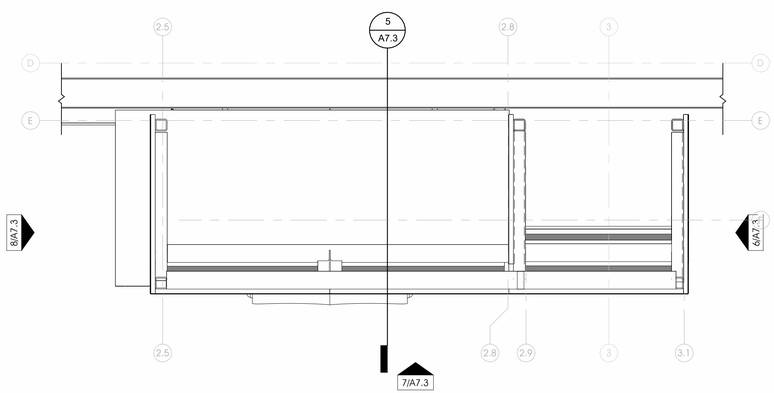
6 A7.3 ENTRY - SOUTH ELEVATION
1/2" = 1'-0"



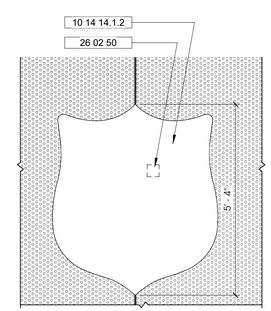
5 A7.3 ENTRY - DETAIL THROUGH CANOPY
1/2" = 1'-0"



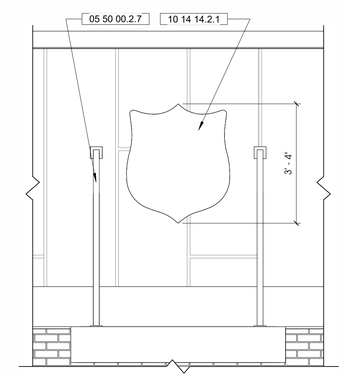
4 A7.3 TSA SHIELD PATTERN LASER CUT
3" = 1'-0"



3 A7.3 ENTRY - CANOPY PLAN VIEW
1/2" = 1'-0"



2 A7.3 DETAIL - ENTRY SIGN
1/2" = 1'-0"



1 A7.3 DETAIL - SIDE ENTRY SIGN
1/2" = 1'-0"

GENERAL NOTES - ENTRY STRUCTURE

A. ALL CONTRACTORS ARE RESPONSIBLE FOR PROVIDING COMPLETE INSTALLATION OF ALL COMPONENTS AND SHALL COORDINATE THEIR SCOPE OF WORK WITH ALL OTHER TRADES PRIOR TO SUBMITTING BIDS TO ENSURE THERE ARE NO MISSING OR DUPLICATE COMPONENTS WITH-IN THEIR SCOPE

B. DO NOT SCALE DRAWINGS. USE INDICATED DIMENSIONS ONLY.

C. SHOULD A CONTRACTOR FIND DISCREPANCIES OR AMBIGUITIES IN OR OMISSIONS FROM THE DRAWINGS OR SPECIFICATIONS, OR BE IN DOUBT ABOUT THEIR MEANING, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY.

D. CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE JOB DURING CONSTRUCTION LAYOUT AND ADVISE THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO PERFORMING ANY WORK.

E. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS ON-SITE AND ADVISING ARCHITECT OF ANY DISCREPANCIES WITH DEMOLITION OR NEW CONSTRUCTION PRIOR TO PERFORMING ANY WORK.

F. CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY IF ANY UNFORESEEN STRUCTURAL OR UTILITY RELATED ISSUES ARISE DURING DEMOLITION OR EXCAVATION.

G. ALL SPECIFIED ITEMS SHALL BE PROVIDED AND INSTALLED PER MANUFACTURERS WRITTEN REQUIREMENTS

KEYNOTE LEGEND

Key Value	Keynote Text
05 50 00.2.7	CUSTOM STEEL AWNINGS & CANOPIES, REFER TO STRUCTURAL
10 14 14.1.2	INTERALLY LIT LED LOGO SIGN
10 14 14.2.1	NON-LIT LOGO SIGN
26 02 50	ELECTRICAL JUNTION BOX - REFER TO ELECTRICAL PLANS

NO.	REVISION DESCRIPTION	BY	DATE

ABONMARCHE
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Fort Wayne
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Hobart
Lafayette
South Bend
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PROJECT:
DOING THE MOST GOOD
NILES FACILITY
1707 MILLER DR. NILES, MI
49120

DETAILS

SHEET TITLE:

MODELED BY: JCA
DESIGNED BY: ARD
PM REVIEW: ARD
QA/QC REVIEW: MDN
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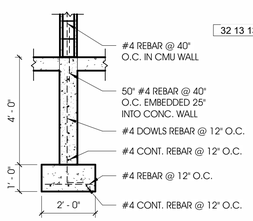
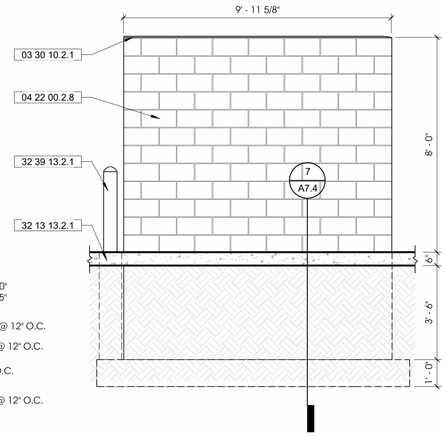
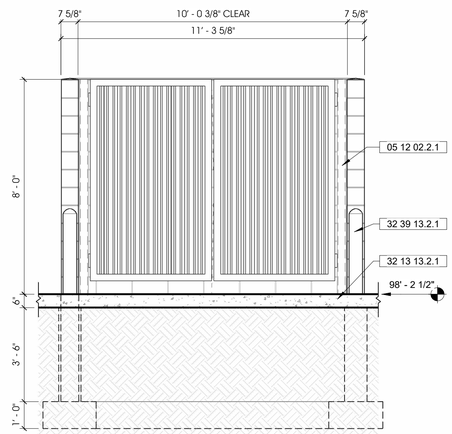


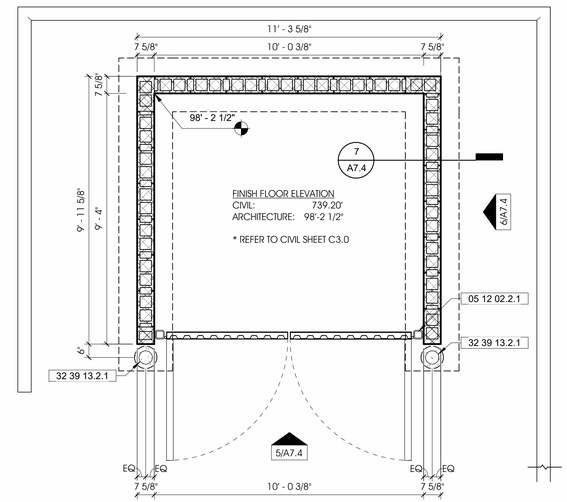
7 / A7.4 DETAIL @ TRASH ENCLOSER
3/8" = 1'-0"



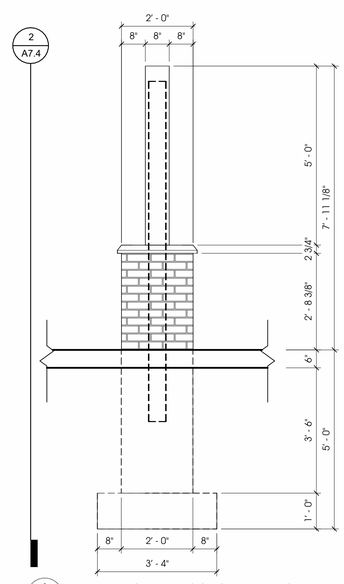
6 / A7.4 DUMPSTER @ EAST ELEVATION
3/8" = 1'-0"



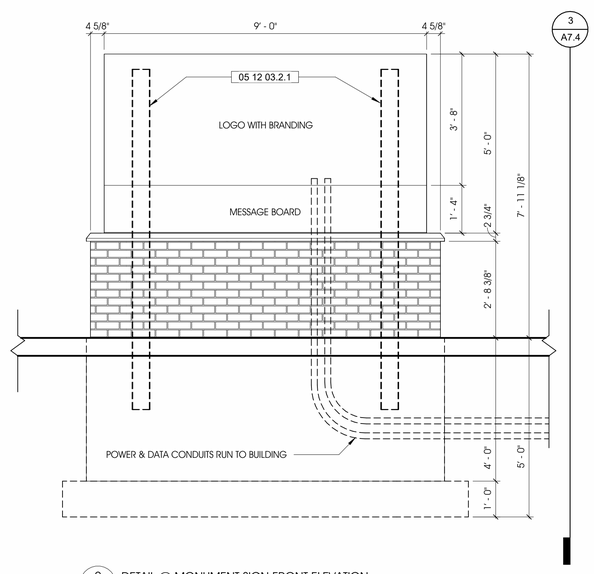
5 / A7.4 DUMPSTER @ SOUTH ELEVATION
3/8" = 1'-0"



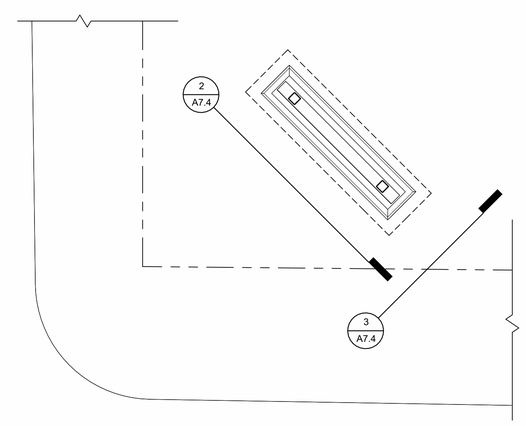
4 / A7.4 ENLARGED PLAN @ DUMPSTER
3/8" = 1'-0"



3 / A7.4 DETAIL @ MONUMENT SIGN SIDE ELEVATION
1/2" = 1'-0"



2 / A7.4 DETAIL @ MONUMENT SIGN FRONT ELEVATION
1/2" = 1'-0"



1 / A7.4 ENLARGED PLAN @ MONUMENTAL SIGN
1/4" = 1'-0"

GENERAL NOTES - SITE DETAILS

A. FINISH FLOOR ELEVATION PROVIDE FOR REFERENCE ONLY. REFER TO CIVIL SHEET C3.0 FOR ALL SITE GRADES.

B. PROVIDE 24" WIDE x 12" DEEP POURED CONC. FOOTING SET 36" BELOW GRADE - REINFORCING TO BE (3) CONT. #4 BARS, 3" ABOVE BOTTOM W/ #4 BENT DOWELS @ 12" O.C. TIED TO CONT. BARS & EXTENDING TO FULL HEIGHT OF FOUNDATION WALL.

C. FOUNDATION WALLS TO BE 8" POURED CONC. REINFORCED W/ (4) HORIZ. #4 BARS - VERT. #4 BARS TO EXTED 25" ABOVE TOP OF WALL.

D. DUMPSTER ENCLOSURE WALLS TO BE 8" SPLIT FACE CMU - WALLS TO BE REINFORCED W/ #4 VERT. BARS IN SOLID GROUTED CORES AT 40" O.C. TIED TO BARS EXTENDING FROM FOUNDATION WALL - PROVIDE BOND BEAM TOP COURSE W/ CONT. #4 BAR IN SOLID CONC. GROUT W/ SLOPED TOP.

E. DOORS TO BE MOUNTED TO 4" x 4" x 1/4" GALV. STEEL TUBES BOLTED TO SOLID GROUTED END CORE OF CMU WALL - PROVIDE (5) GALV. EPOXY ANCHORS 9" LONG W/ 4" MIN. EMBED - TUBES TO HAVE SHOP WELDED TOP CAPS - ALL EXPOSED GALV. STEEL TO BE PRIMED & PAINTED (COLOR TO MATCH BLDG.)

F. GATES TO BE 2" x 2" GALV. STEEL TUBE FRAMES W/ PAC CLAD METAL SIDING OVER EXTERIOR FACE OF FRAME (SIDING TO MATCH TYPE & COLOR USED ON BUILDING) PROVIDE (4) HEAVY DUTY GALV. STEEL HINGES, HASP W/ PADLOCK & PINS W/ SLEEVES -ALL EXPOSED GALV. STEEL TO BE PRIMED & PAINTED (COLOR TO MATCH BLDG.)

G. PROVIDE TWO GALV. STEEL TUBE BOLLARDS SET IN CONC. W/ PVC SLIP ON YELLOW COVERS.

H. ALL GLAVANIZED SURFACES SHALL BE CLEANED AS REQUIRED BY PAINT MANUFACTURER'S WRITTEN REQUIREMENTS. PROVIDE (2) COATS OF SHERWIN WILLIAMS "SUPERPAINT EXTERIOR ACRYLIC LATEX" PAINT OVER SHERWIN WILLIAMS "PRO INDUSTRIAL PRO-CRYL UNIVERSAL ACRYLIC PRIMER.

I. CMU SHALL BE PRIMED AND PAINTED TO MATCH BUILDING CMU.

J. CUSTOM INTERNALLY LIT MONUMENT SIGN W/ MESSAGE BOARD, BARE, FOUNDATION, STRUCTURAL FRAME, AND ALL RELATED COMPONENTS (INCLUDING MESSAGE SIGN CONTROLS) BY SIGNAGE CONTRACTOR. E.C. SHALL PROVIDE POWER & DATA TO SIGN LOCATION. SIGN SHALL MEET LOCAL ORDINANCE REQUIREMENTS. BRICK SHALL MATCH BUILDING.

KEYNOTE LEGEND

Key Value	Keynote Text
03 30 10.2.1	SLOPED GROUT CAP
04 22 00.2.8	CMU SHALL BE A SMOOTH FACE RUNNING BOND PATTERN. PROVIDE HORIZONTAL LADDER REINFORCING AT 16" O.C. AND AT PERIMETER OF ALL OPENINGS - COLOR SHALL MATCH BUILDING
05 12 02.2.1	STEEL 4"X4" TUBE W/ TOP CLOSURE PLATE - COLOR SHALL MATCH CMU
05 12 03.2.1	STEEL 6"X6" TUBE COLUMN
32 13 13.2.1	CONCRETE PAVING - REFER TO CIVIL
32 39 13.2.1	6 Ø PIPE BOLLARD SHALL BE FILLED WITH CONCRETE AND PAINTED SAFETY YELLOW"

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PROJECT:
DOING THE MOST GOOD
NILES FACILITY
1707 MILLER DR. NILES, MI 49120

SHEET TITLE:
SITE DETAILS

MODELED BY: JCA
DESIGNED BY: ARD
PM REVIEW: ARD
QA/QC REVIEW: MDN
DATE: 07/31/2023
SEAL: STATE OF MICHIGAN ARVIN RIC DELACRUZ ARCHITECT No. 1301060203 LICENSED ARCHITECT
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22-0578

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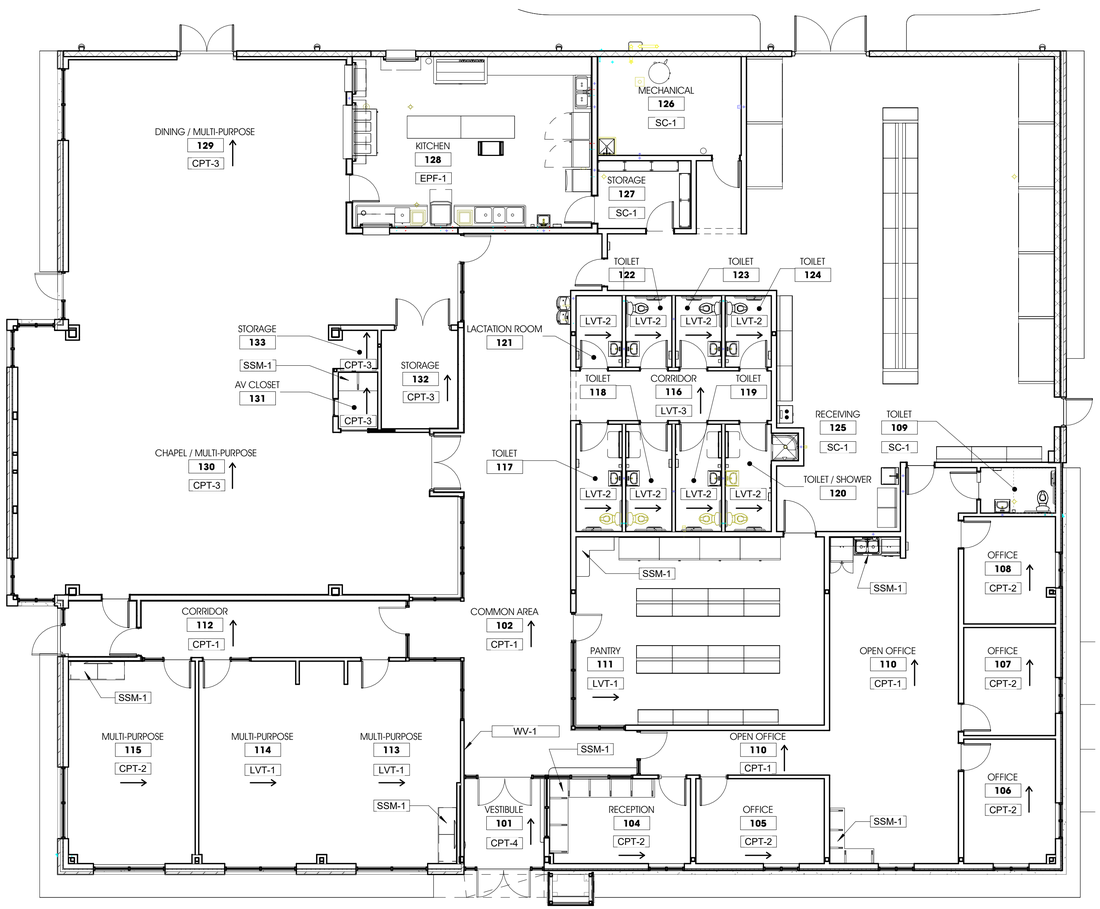
ROOM FINISH SCHEDULE

NO.	ROOM NAME	FLOORING MATERIAL	FLOORING FINISH	BASE	NORTH WALL MATERIAL	NORTH WALL FINISH	EAST WALL MATERIAL	EAST WALL FINISH	SOUTH WALL MATERIAL	SOUTH WALL FINISH	WEST WALL MATERIAL	WEST WALL FINISH	WAINSCOT	CEILING MATERIAL	CEILING FINISH	BULKHEAD	REMARKS
101	VESTIBULE	CONC.	CPT-4	RB-1	GYP.	PT-3	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	-	LIG-1	ACT-1		
102	COMMON AREA	CONC.	CPT-1	RB-1	GYP.	PT-3	GYP.	PT-1	GYP.	PT-1	GYP.	PT-4	-	LIG-2	ACT-3		
103	CORRIDOR	CONC.	CPT-1	RB-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	-	LIG-1	ACT-1		
104	RECEPTION	CONC.	CPT-2	RB-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	-	LIG-1	ACT-1		
105	OFFICE	CONC.	CPT-2	RB-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	-	LIG-1	ACT-1		
106	OFFICE	CONC.	CPT-2	RB-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	-	LIG-1	ACT-1		
107	OFFICE	CONC.	CPT-2	RB-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	-	LIG-1	ACT-1		
108	OFFICE	CONC.	CPT-2	RB-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	-	LIG-1	ACT-1		
109	TOILET	CONC.	LVT-2	TL-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	TL-1	GYP.	PT-1		
110	OPEN OFFICE	CONC.	CPT-1	RB-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	-	LIG-1	ACT-1		
111	PANTRY	CONC.	LVT-1	RB-1	GYP.	PT-1	GYP.	PT-3	GYP.	PT-1	GYP.	PT-1	-	LIG-2	ACT-3		
112	CORRIDOR	CONC.	CPT-1	RB-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	-	LIG-1	ACT-1		
113	MULTI-PURPOSE	CONC.	LVT-1	RB-1	GYP.	-	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	-	LIG-1	ACT-1		
114	MULTI-PURPOSE	CONC.	LVT-1	RB-1	GYP.	PT-1	GYP.	PT-1	GYP.	-	GYP.	PT-1	-	LIG-1	ACT-1		
115	MULTI-PURPOSE	CONC.	CPT-2	RB-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	-	LIG-1	ACT-1		
116	CORRIDOR	CONC.	LVT-3	RB-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	-	LIG-1	ACT-1		
117	TOILET	CONC.	LVT-2	TL-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	TL-1	GYP.	PT-1		
118	TOILET	CONC.	LVT-2	TL-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	TL-1	GYP.	PT-1		
119	TOILET	CONC.	LVT-2	TL-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	TL-1	GYP.	PT-1		
120	TOILET / SHOWER	CONC.	LVT-2	TL-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	TL-1	GYP.	PT-1		
121	LACTATION ROOM	CONC.	LVT-2	TL-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	-	GYP.	PT-1		
122	TOILET	CONC.	LVT-2	TL-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	TL-1	GYP.	PT-1		
123	TOILET	CONC.	LVT-2	TL-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	TL-1	GYP.	PT-1		
124	TOILET	CONC.	LVT-2	TL-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	TL-1	GYP.	PT-1		
125	RECEIVING	CONC.	SC-1	RB-1	GYP.	PT-1	CMU	PT-1	CMU	PT-1	GYP.	PT-1	-	STRUCT.	PT-1		
126	MECHANICAL	CONC.	SC-1	RB-1	GYP.	PT-1	CMU	PT-1	GYP.	PT-1	GYP.	PT-1	-	STRUCT.	PT-1		
127	STORAGE	CONC.	SC-1	RB-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	-	LIG-1	ACT-2		
128	KITCHEN	CONC.	EPF-1	EPF-1	GYP.	PT-1 / SS-1	CMU	PT-1 / SS-1	GYP.	PT-1 / SS-1	GYP.	PT-1 / SS-1	-	LIG-1	ACT-2		
129	DINING / MULTI-PURPOSE	CONC.	CPT-3	RB-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	-	STRUCT.	PT-1		
130	CHAPEL / MULTI-PURPOSE	CONC.	CPT-3	RB-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	-	WD-1	S&V-1		
131	AV CLOSET	CONC.	CPT-3	RB-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	-	GYP.	PT-1		
132	STORAGE	CONC.	CPT-3	RB-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	-	LIG-1	ACT-1		
133	STORAGE	CONC.	CPT-3	RB-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	GYP.	PT-1	-	GYP.	PT-1		



1 / A8.1 FIRST FLOOR - FINISH PLAN
1/8" = 1'-0"

GENERAL NOTES - ROOM FINISH

A. CONCRETE SLAB SHALL BE LEVEL & MEET ALL FLOORING MANUFACTURER'S WRITTEN REQUIREMENTS FOR INSTALLATION

B. ALL FLOORING TRANSITIONS TO BE PLACE HALFWAY UNDER DOOR PANELS

C. REFER TO ARROW BY KEYNOTE FOR DIRECTION OF FLOORING MATERIAL

D. REFER TO KEYNOTE LEGEND FOR FLOORING PATTERNS

E. TL-1 SHALL BE INSTALLED ON ALL WALLS IN ALL BATHROOMS UP TO 4' AFF
PROVIDE ADDITIONAL BACKING @ ALL ACCESSORIES LOCATED @ GYP./ TILE INTERSECTIONS

F. ALL GROUT FOR TL-1 TO BE MAPEI ULTRACOLOR PLUS FA - IRON 107 IN 1/8" GROUT LINES

G. USE SCHLUTER JOLLY TILE TRIM (IN COLOR BRUSHED CHROME ANODIZED) AS TRIM OF TILE ON ALL UNFINISHED EDGES. CONTRACTOR TO VERIFY SIZE BEFORE ORDERING.

H. MITER CUT SCHLUTER JOLLY TILE TRIM AT CORNERS (TYP.)

I. SS-1 SHALL BE INSTALLED ON ALL WALLS IN KITCHEN UP TO 8' A.F.F.

J. G.C. SHALL PROVIDE SMOOTH, LEVEL CONCRETE FINISH THAT MEETS ALL FLOORING MANUFACTURERS WRITTEN REQUIREMENTS FOR INSTALLATION OF EACH FLOOR FINISH. FLOOR PREP, FLOOR LEVELING, FEATHERING, MOISTURE CONTENT, ETC. SHALL BE PROVIDED BY THE G.C. AT NO ADDITIONAL CHARGE TO THE OWNER.

K. G.C. SHALL COORDINATE ALL ADDITIVES, SURFACE APPLIED PRODUCTS, ADHESIVES, ETC. FOR COMPATIBILITY WITH ALL TRADES. IF ADDITIONAL TREATMENT, PRODUCT, ETC. ARE REQUIRED FOR INSTALLATION, THEY WILL BE CONSIDERED PART OF THE CONTRACT SCOPE AND PROVIDED BY THE G.C. AT NO ADDITIONAL COST TO THE OWNER.

LEGEND - FINISHES

Key Value	Keynote Text
ACT-1	2'x2' USG ACOUSTICAL CEILING TILE
ACT-2	2'X4' USG ACOUSTICAL CEILING TILE
ACT-3	ACOUSTICAL CEILING TILE 3
CPT-1	MOHAWK - SIDE STRIPE - HERITAGE 963 (INSTALL IN BRICK ASHLAR, STRIPES GOING N TO S.)
CPT-2	MOHAWK - MELLOW D - SOLITUDE 969 (INSTALL IN BRICK ASHLAR)
CPT-3	MOHAWK - VISUAL CONNECTIONS - IRON 969 (INSTALL IN BRICK ASHLAR)
CPT-4	MOHAWK - FIRST STEP II - OBSIDIAN 989 (INSTALL IN QUARTER TURN PATTERN)
EPF-1	EPOXY FLECK FLOORING (TO BE CONFIRMED WITH ARCHITECT) W/ 6" INTEGRAL WALL BASE
LVT-1	MOHAWK - REFORESTATION - RACEHORSE 939 (INSTALL IN RANDOM LAY PATTERN)
LVT-2	MILLIKEN - LIGHT STITCH - REVEAL (INSTALL IN RANDOM LAY PATTERN)
LVT-3	MILLIKEN - LIGHT STITCH - DIM (INSTALL IN RANDOM LAY PATTERN)
PT-1	SHERWIN WILLIAMS - PROMAR 200 - ALABASTER SW 7008
PT-2	SHERWIN WILLIAMS - PROMAR 200 - TRICORN BLACK 6528
PT-3	SHERWIN WILLIAMS - PROMAR 200 - REAL RED 6868
PT-4	SHERWIN WILLIAMS - PROMAR 200 - EGRET WHITE SW 7570
RB-1	THERMOPLASTIC WALL BASE
SC-1	SEALED CONCRETE
SS-1	STAINLESS STEEL WALL PROTECTION
SSM-1	CORIAN SOLID SURFACE (OR EQUAL) - LINEN
TL-1	LOUISVILLE TILE - SOHO SUBWAY - MATTE WHITE 4X16
WV-1	WALL VINYL - INSTALL WALL VINYL LOGO TO MATCH CLIENTS BRANDING

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PROJECT:
DOING THE MOST GOOD
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1707 MILLER DR. NILES, MI 49120

SHEET TITLE:
FINISH PLAN

MODELED BY: JCH, AND
DESIGNED BY: ARD
PM REVIEW: ARD
QA/QC REVIEW: MDN
DATE: 07/31/2023
SEAL: STATE OF MICHIGAN ARVIN RIC DELACRUZ ARCHITECT No. 1301060203 LICENSED ARCHITECT
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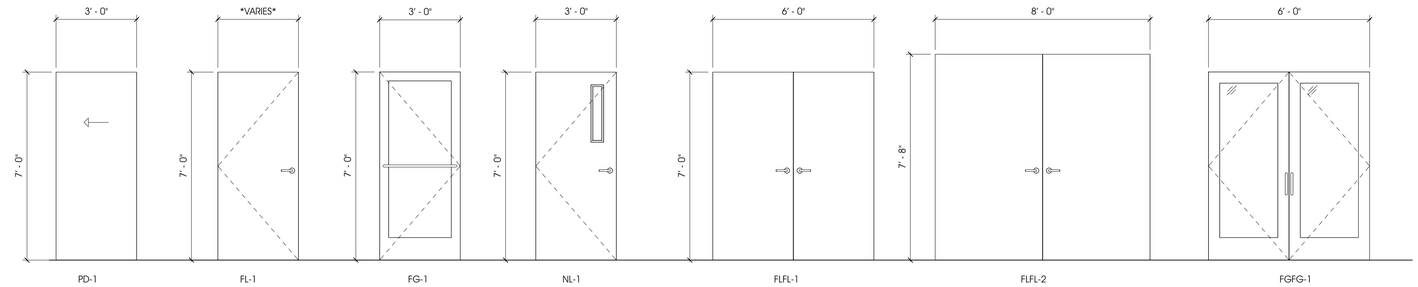
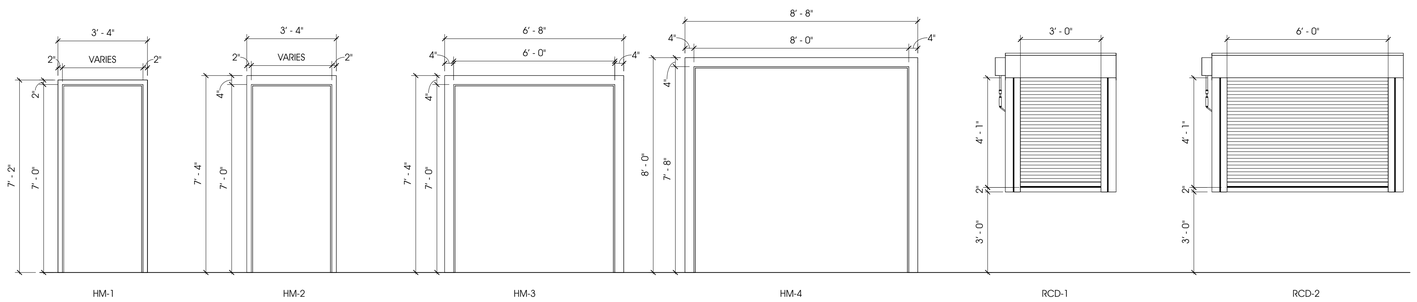


DOOR PANEL ELEVATIONS

SCALE: 3/8" = 1'-0"



DOOR FRAME ELEVATIONS

SCALE: 3/8" = 1'-0"

GENERAL NOTES - DOORS

A. EXTERIOR DOORS & FRAMES SHALL BE INSULATED (TYP.)

B. PROVIDE TEMPERED GLASS @ ALL DOORS AND OPERABLE WINDOWS.

C. ROLLING / COILING DOORS SHALL BE STAINLESS STEEL WITH INTEGRAL COUNTERTOP.

DOOR LEGEND

PD = POCKET DOOR
FL = FLUSH
FG = FULL GLASS (MEDIUM STYLE)
HM = HOLLOW METAL
AL = DARK BRONZE ANODIZED ALUMINUM
SF = STOREFRONT

DOOR SCHEDULES

NO.	TO ROOM	DOOR HANDING	DOOR WIDTH	DOOR HEIGHT	RATING	PANEL TYPE	PANEL CORE	PANEL MATERIAL	PANEL FINISH	PANEL GLAZING	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	HARDWARE GROUP	HARDWARE TYPE	REMARKS
101-B	COMMON AREA	RHR	6' - 0"	7' - 0"		FGFG-1	INSULATED	ALUM.	AL-1	1" INSUL	SF-K	ALUM	AL-1	4	EGRESS (INTERIOR)	ELEC. KEY FOB READER
104-A	RECEPTION	LH	3' - 0"	7' - 0"		NL-1	SOLID	WD	S&V-1	1/4"	HM-1	STL	PT-?	2	OFFICE	
105-A	OFFICE	RH	3' - 0"	7' - 0"		NL-1	SOLID	WD	S&V-1	1/4"	HM-1	STL	PT-?	2	OFFICE	
106-A	OFFICE	LH	3' - 0"	7' - 0"		NL-1	SOLID	WD	S&V-1	1/4"	HM-1	STL	PT-?	2	OFFICE	
107-A	OFFICE	LH	3' - 0"	7' - 0"		NL-1	SOLID	WD	S&V-1	1/4"	HM-1	STL	PT-?	2	OFFICE	
108-A	OFFICE	RH	3' - 0"	7' - 0"		NL-1	SOLID	WD	S&V-1	1/4"	HM-1	STL	PT-?	2	OFFICE	
109-A	TOILET	RH	3' - 0"	7' - 0"		FL-1	SOLID	WD	S&V-1	-	HM-1	STL	PT-?	5	PRIVACY	
110-A	CORRIDOR	LH	3' - 0"	7' - 0"		FG-1	SOLID	WD	AL-1	1/4"	SF-L	ALUM	AL-1	1	PASSAGE	ELEC. KEY FOB READER
110-B			9' - 1 3/8"	8' - 0"												
110-D	VESTIBULE	RHR	6' - 0"	7' - 0"		FGFG-1	INSULATED	ALUM.	AL-1	1" INSUL	SF-B	ALUM	AL-1	4	EGRESS (EXTERIOR)	ELEC. KEY FOB READER
111-A	PANTRY	LH	3' - 0"	7' - 0"		SF-1	SOLID	WD	S&V-1	1/4"	SF-N	ALUM	PT-1	2	OFFICE	
111-B	PANTRY	RHR	3' - 6"	7' - 0"		NL-1	INSULATED	STL	PT-1	1/4"	HM-1	STL	PT-?	1	PASSAGE	ELEC. KEY FOB READER
112-A	CORRIDOR	RH	3' - 0"	7' - 0"		FG-1	SOLID	WD	S&V-1	1/4"	SF-R	STL	PT-?	1	PASSAGE	
112-B			3' - 0"	7' - 0"	90 MIN.											
112-C	CORRIDOR	RHR	3' - 4"	7' - 0"		FL-1	HOLLOW	STL	PT-1	-	HM-1	STL	PT-?	4	EGRESS (EXTERIOR)	
113-A	MULTI-PURPOSE	RH	3' - 0"	7' - 0"		FL-1	SOLID	WD	S&V-1	-	HM-1	STL	PT-?	1	PASSAGE	
114-A	MULTI-PURPOSE	RH	3' - 0"	7' - 0"		FL-1	SOLID	WD	S&V-1	-	HM-1	STL	PT-?	1	PASSAGE	
115-A	MULTI-PURPOSE	LH	3' - 0"	7' - 0"		FL-1	SOLID	WD	S&V-1	-	HM-1	STL	PT-?	1	PASSAGE	
117-A	LACTACTION ROOM	LH	3' - 0"	7' - 0"		FL-1	SOLID	WD	S&V-1	-	HM-1	STL	PT-?	5	PRIVACY	
118-A	TOILET	RH	3' - 0"	7' - 0"		FL-1	SOLID	WD	S&V-1	-	HM-1	STL	PT-?	5	PRIVACY	
119-A	TOILET	LH	3' - 0"	7' - 0"		FL-1	SOLID	WD	S&V-1	-	HM-1	STL	PT-?	5	PRIVACY	
120-A	TOILET	RH	3' - 0"	7' - 0"		FL-1	SOLID	WD	S&V-1	-	HM-1	STL	PT-?	5	PRIVACY	
121-A	TOILET	RH	3' - 0"	7' - 0"		FL-1	SOLID	WD	S&V-1	-	HM-1	STL	PT-?	5	PRIVACY	
122-A	TOILET	LH	3' - 0"	7' - 0"		FL-1	SOLID	WD	S&V-1	-	HM-1	STL	PT-?	5	PRIVACY	
123-A	TOILET	RH	3' - 0"	7' - 0"		FL-1	SOLID	WD	S&V-1	-	HM-1	STL	PT-?	5	PRIVACY	
124-A	TOILET/ SHOWER	LH	3' - 0"	7' - 0"		FL-1	SOLID	WD	S&V-1	-	HM-1	STL	PT-?	5	PRIVACY	
125-A	RECEIVING	RHR	8' - 0"	7' - 8"		FLFL-3	INSULATED	STL	PT-1	-	HM-4	GAL. STL	PT-?	6	STORAGE	ELEC. KEY FOB READER
125-B	RECEIVING	RHR	3' - 0"	7' - 0"		FL-1	INSULATED	STL	PT-1	-	HM-2	GAL. STL	PT-?	4	EGRESS (EXTERIOR)	PROVIDE DOOR VIEWER
125-C	OPEN OFFICE	RH	3' - 0"	7' - 0"		FL-1	INSULATED	STL	PT-1	-	HM-1	STL	PT-?	6	STORAGE	ELEC. KEY FOB READER
125-D	RECEIVING	LHR	3' - 0"	7' - 0"		FL-1	INSULATED	STL	PT-1	-	HM-1	STL	PT-?	6	STORAGE	ELEC. KEY FOB READER
126-A	MECHANICAL	LH	3' - 0"	7' - 0"		FL-1	INSULATED	STL	PT-1	-	HM-1	STL	PT-?	6	STORAGE	
127-A	STORAGE	LH	3' - 0"	7' - 0"		FL-1	INSULATED	STL	PT-1	-	HM-1	STL	PT-?	1	PASSAGE	
128-A	KITCHEN	RH	3' - 0"	7' - 0"		FL-1	INSULATED	STL	PT-1	-	HM-1	STL	PT-?	1	PASSAGE	
128-B	KITCHEN	LH	3' - 0"	7' - 0"	90 MIN.	FL-1	INSULATED	STL	PT-1	-	HM-1	STL	PT-?	1	PASSAGE	
128-C	KITCHEN	-	3' - 4"	4' - 0"		RCD-1	-	-	-	-	-	STL	PT-?	-	-	
128-D	KITCHEN	-	3' - 0"	4' - 0"		RCD-1	-	-	-	-	-	STL	PT-?	-	-	
128-E	KITCHEN	-	6' - 0"	4' - 0"		RCD-2	-	-	-	-	-	STL	PT-?	-	-	
128-F	KITCHEN	-	3' - 0"	4' - 0"		RCD-1	-	-	-	-	-	STL	PT-?	-	-	
129-A	DINING/MULTI-PURPOSE	RHR	6' - 0"	7' - 0"		FLFL-1	INSULATED	STL	PT-1	-	HM-3	GAL. STL	PT-?	4	EGRESS (EXTERIOR)	
129-B	DINING/MULTI-PURPOSE	RHR	3' - 0"	7' - 0"	90 MIN.	FG-1	SOLID	WD	S&V-1	-	HM-1	STL	PT-?	1	PASSAGE	
129-C	DINING/MULTI-PURPOSE	LHR	3' - 0"	7' - 0"		FL-1	INSULATED	ALUM.	PT-1	-	SF-1	ALUM	PT-1	4	EGRESS (EXTERIOR)	
130-A	CHAPEL/MULTI-PURPOSE	RHR	6' - 0"	7' - 0"	90 MIN.	FLFL-1	SOLID	WD	S&V-1	-	HM-1	STL	PT-?	4	EGRESS (INTERIOR)	
130-B	CHAPEL/MULTI-PURPOSE	LHR	3' - 0"	7' - 0"	90 MIN.	NL-1	SOLID	WD	S&V-1	-	HM-1	STL	PT-?	4	EGRESS (INTERIOR)	ELEC. KEY FOB READER
131-A	AV CLOSET	RH POCKET	3' - 0"	7' - 0"		PD-1	SOLID	WD	S&V-1	-	HM-1	STL	PT-?	7	POCKET	
132-A	STORAGE	RHR	6' - 0"	7' - 0"		FLFL-1	SOLID	WD	S&V-1	-	HM-1	STL	PT-?	6	STORAGE	

DOOR HARDWARE SCHEDULE

GROUP	HARDWARE TYPE	LOCKSET	HINGES	CLOSER	FRAME SILENCER	KICKPLATE
1	PASSAGE	A-SERIES	BB 1 1.2 BR - BB KNUCKLE	No	Yes	No
2	OFFICE	ANSI F8	BB 1 1.2 BR - BB KNUCKLE	No	Yes	No
3	EGRESS (EXTERIOR)	SERIES 22 EXT	BB 1 1.2 BR - BB KNUCKLE	Yes	Yes	Yes
4	EGRESS (INTERIOR)	SERIES 22 EXT	BB 3 BR - BB 5 KNUCKLE	Yes	Yes	No
5	PRIVACY	PUSH PULL	BB 1 1.2 BR - BB KNUCKLE	Yes	Yes	No
6	STORAGE	ANSI F86	BB 1 1.2 BR - BB KNUCKLE	No	No	No
7	POCKET			No	Yes	No

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PROJECT:

DOING THE MOST GOOD

NILES FACILITY
1707 MILLER DR. NILES, MI
49120

SHEET TITLE:

DOOR SCHEDULES

MODELED BY: JCA
DESIGNED BY: ARD
PM REVIEW: ARD
QA/QC REVIEW: MDN
DATE: 07/31/2023
SEAL:

STATE OF MICHIGAN
ARVIN RIC DELACRUZ
ARCHITECT
No. 1301060203
LICENSED ARCHITECT

SIGNATURE:

DATE:

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22-0578

SHEET NO.
A8.2

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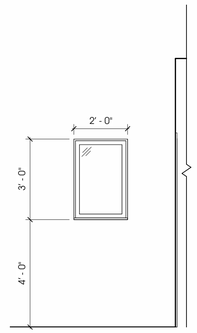
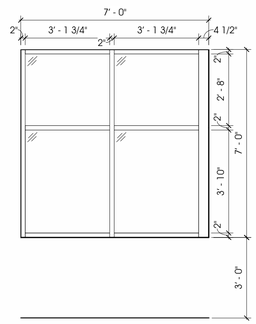
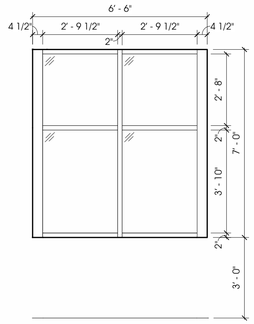


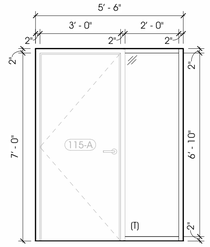
W A8.3 STOREFRONT @ AV CLOSET
3/8" = 1'-0"



V A8.3 STOREFRONT @ MULTI-PURPOSE 113 (SOUTH)
3/8" = 1'-0"



U A8.3 STOREFRONT @ MULTI-PURPOSE 113 (EAST)
3/8" = 1'-0"



T A8.3 STOREFRONT @ MULTI-PURPOSE 115 (EAST)
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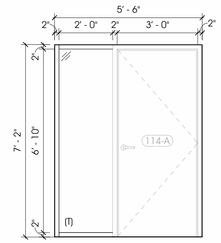
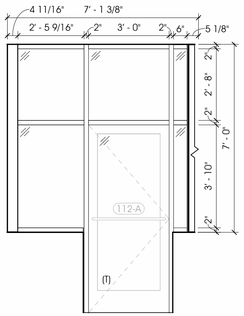
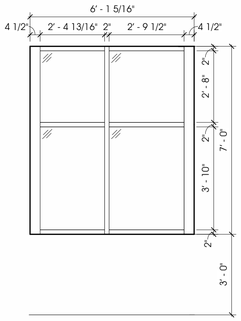


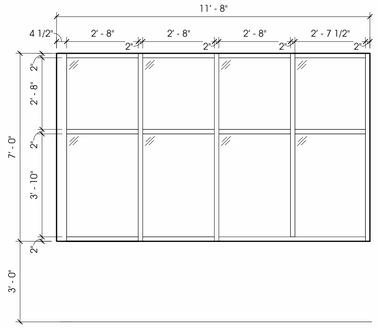
S A8.3 STOREFRONT @ MULTI-PURPOSE 114 (EAST)
3/8" = 1'-0"



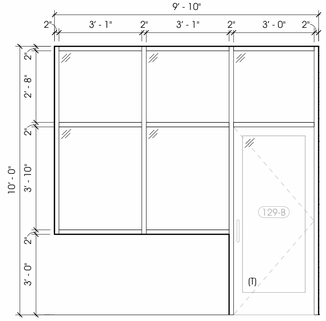
R A8.3 STOREFRONT @ CORRIDOR 112 (SOUTH)
3/8" = 1'-0"



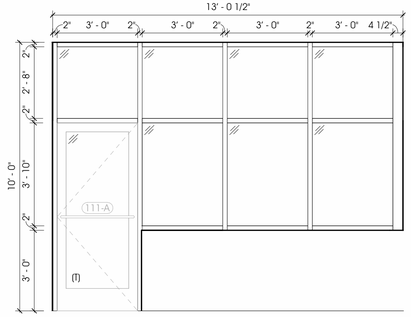
Q A8.3 STOREFRONT @ CHAPEL 130 (WEST-SOUTH)
3/8" = 1'-0"



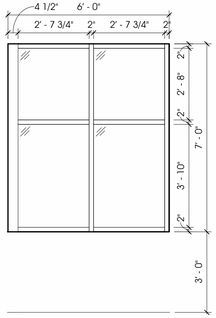
P A8.3 STOREFRONT @ COMMON AREA 102 (SOUTH)
3/8" = 1'-0"



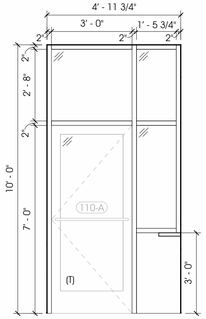
O A8.3 STOREFRONT @ DINING 129 (SOUTH)
3/8" = 1'-0"



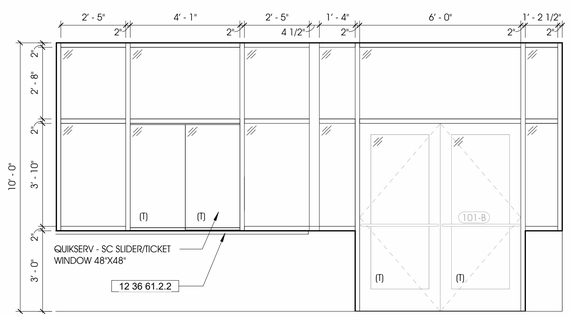
N A8.3 STOREFRONT @ PANTRY 111 (NORTH)
3/8" = 1'-0"



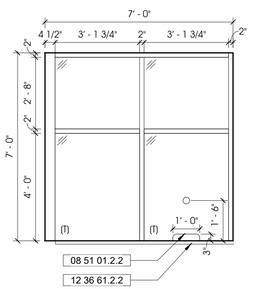
M A8.3 STOREFRONT @ PANTRY 11 (WEST)
3/8" = 1'-0"



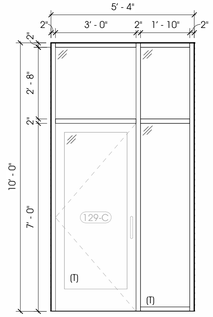
L A8.3 STOREFRONT @ CORRIDOR 103 (NORTH)
3/8" = 1'-0"



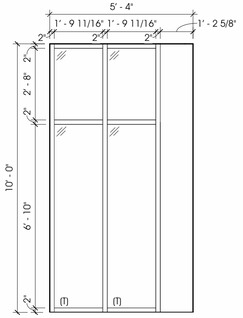
K A8.3 STOREFRONT @ DOOR 101-B
3/8" = 1'-0"



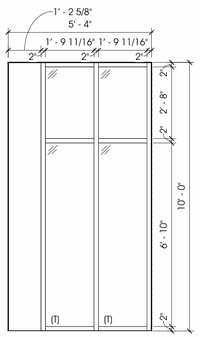
J A8.3 STOREFRONT @ VESTIBULE 101 (SOUTH)
3/8" = 1'-0"



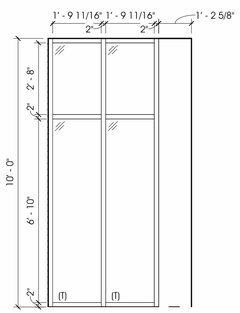
I A8.3 STOREFRONT @ DINING (NORTH)
3/8" = 1'-0"



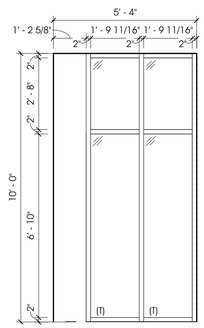
H A8.3 STOREFRONT @ CHAPEL 130 (EAST)
3/8" = 1'-0"



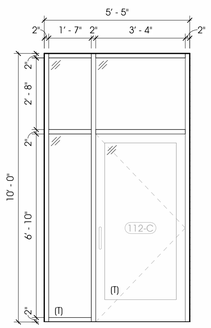
G A8.3 STOREFRONT @ CHAPEL 130 (NORTH-EAST)
3/8" = 1'-0"



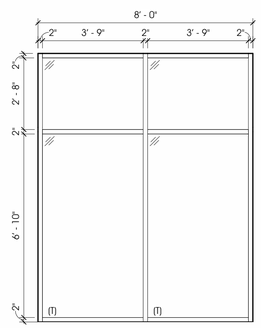
F A8.3 STOREFRONT @ CHAPEL 130 (NORTH-WEST)
3/8" = 1'-0"



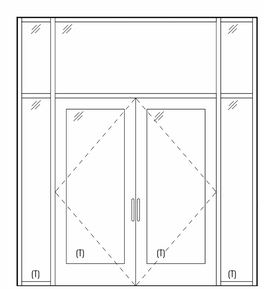
E A8.3 STOREFRONT @ CHAPEL 130 (WEST-NORTH)
3/8" = 1'-0"



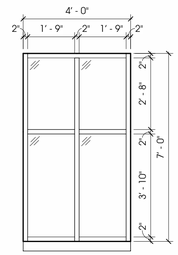
D A8.3 STOREFRONT @ CORRIDOR 112 (NORTH)
3/8" = 1'-0"



C A8.3 STOREFRONT @ MULTI-PURPOSE & DINING
3/8" = 1'-0"



B A8.3 STOREFRONT @ VESTIBULE 101A (WEST)
3/8" = 1'-0"



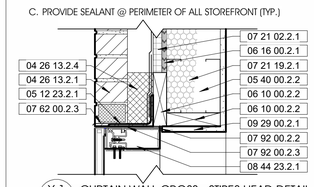
A A8.3 STOREFRONT @ OFFICES
3/8" = 1'-0"

GENERAL NOTES - STOREFRONT

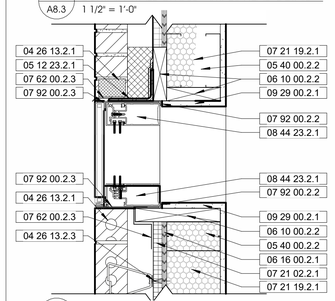
A. STOREFRONT SHALL BE TUBELITE T14000, COLOR SHALL BE DARK BRONZE ANODIZED FINISH
   a. EXTERIOR GLAZING SHALL BE 1" INSULATED LOW-E BRONZE TINTED
   b. INTERIOR GLAZING SHALL BE 1/4" CLEAR
   c. ALL GLAZING IN DOORS OR WITHIN 18" A.F.F. SHALL BE TEMPERED (T)

B. CURTAIN WALL CROSS SHALL BE TUBELITE 400 T SSG CASSETTE SERIES CURTAINWALL
   COLOR SHALL BE DARK BRONZE ANONDIZED FINISH
   a. GLAZING SHALL BE 1" INSULATED LOW-E CLEAR

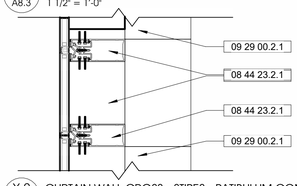
C. PROVIDE SEALANT @ PERIMETER OF ALL STOREFRONT (TYP.)



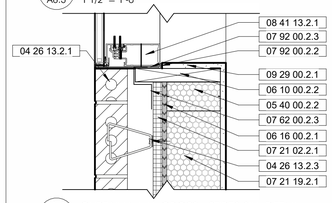
X.1 A8.3 CURTAIN WALL CROSS - STIPES HEAD DETAIL
1 1/2" = 1'-0"



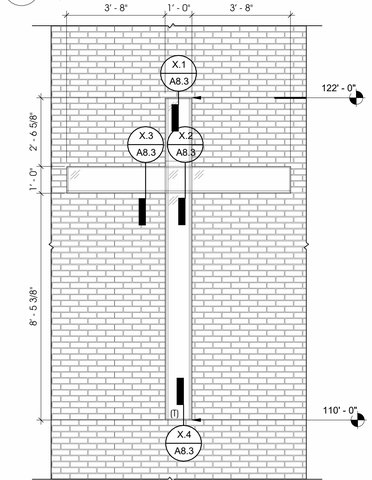
X.3 A8.3 CURTAIN WALL CROSS - PATIBULUM HEAD & SILL DETAIL
1 1/2" = 1'-0"



X.2 A8.3 CURTAIN WALL CROSS - STIPES - PATIBULUM CONNECTION DETAIL
1 1/2" = 1'-0"



X.4 A8.3 CURTAIN WALL CROSS - STIPES SILL DETAIL
1 1/2" = 1'-0"



X A8.3 CURTAIN WALL CROSS
3/8" = 1'-0"

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PROJECT:
DOING THE MOST GOOD
NILES FACILITY
1707 MILLER DR. NILES, MI 49120

SHEET TITLE:
STOREFRONT ELEVATIONS

MODELED BY: JPA, AND
DESIGNED BY: ARD
PM REVIEW: ARD
QA/QC REVIEW: MDN
DATE: 07/31/2023
SEAL: STATE OF MICHIGAN ARVIN RIC DELACRUZ ARCHITECT No. 1301060203 LICENSED ARCHITECT
SIGNATURE:
DATE:

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22-0578

SHEET NO.
A8.3

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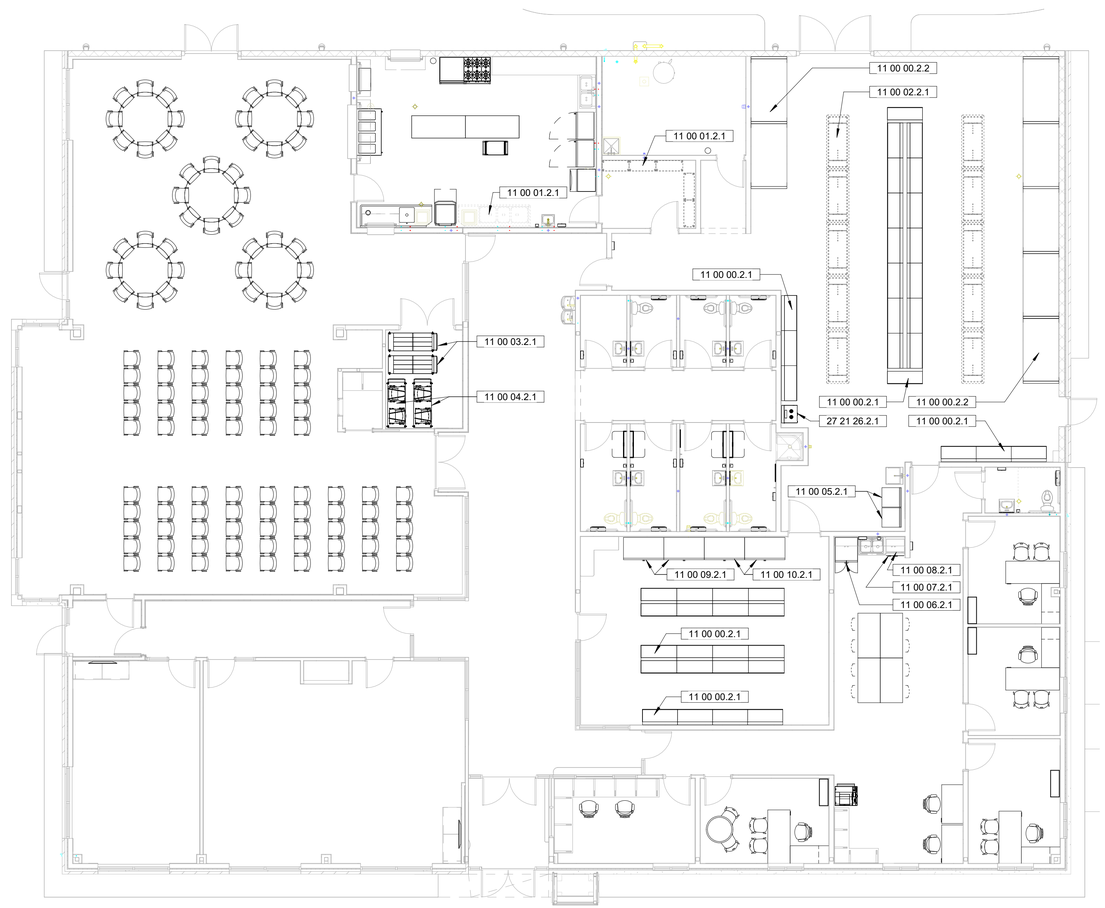

1 / A9.1 FIRST FLOOR - FURNITURE PLAN
1/8" = 1'-0"

GENERAL NOTES - FURNATURE PLAN

A. ALL FURNITURE & EQUIPMENT SHALL BE PROVIDED BY THE GENERAL CONTRATOR U.N.O.

B. ALL APPLIANCES PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR.

C. GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE FURNITURE, FIXTURES & EQUIPMENT INSTALLATION WITH THE OWNER, OWNERS REPRESENTATIVES AND OWNERS FURNITURE & EQUIPMENT VENDORS.

D. FURNITURE PLAN AS SHOWN IS GENERIC. FURNITURE VENDOR TO VERIFY & PROVIDE AN INSTALLATION DRAWING CONFIRMING EXACT LOCATIONS REQUIRED FOR FLOOR AND WALL CONNECTIONS. FLOOR POWER TO BE DIMENSIONED.

E. FURNITURE VENDOR TO CONFIRM AND VERIFY ALL ACTUAL SIZES AS WELL AS SITE CONDITIONS BEFORE PLACING FURNITURE ORDER. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND DRAWINGS.

F. PROVIDE CUT SHEETS FOR ALL SELECTIONS; INCLUDE FINISH OPTIONS TO SELECT FROM AND AVAILABLE COMPONENT OPTIONS.

G. ALL FINISHES, FABRICS, HANDLES AND EDGE TRIM WILL BE SELECTED FROM FULL RANGE OF MANUFACTURER'S FINISHES, U.N.O. PROVIDE CUT SHEETS FOR SELECTION.

H. CONFIRM/ COORDINATE ALL EQUIPMENT ELECTRICAL REQUIREMENTS WITH OWNER, ELECTRICAL ENGINEER & ELECTRICAL CONTRACTOR PRIOR TO PLACING ORDER.

I. TRIPLE BASIN KITCHEN SINK SHALL BE PURCHASED BY OWNER AND INSTALLED BY G.C. ALL OTHER KITCHEN EQUIPMENT SHALL BE PROVIDED BY G.C.

KEYNOTE LEGEND

Key Value	Keynote Text
11 00 00.2.1	CONTRACTOR SHALL PROVIDE NEW (48"W x 18"D x 84"H) Z-BEAM SHELVING FROM 'WAREHOUSE RACK & SHELF' - rackandshelf.com (OR EQUAL)
11 00 00.2.2	CONTRACTOR SHALL PROVIDE NEW (96"W x 42"D x 96"H) PALLET RACKING FROM 'WAREHOUSE RACK & SHELF' - rackandshelf.com (OR EQUAL)
11 00 01.2.1	OWNER SUPPLIED/CONTRACTOR INSTALLED EQUIPMENT AND/OR FIXTURES
11 00 02.2.1	OWNER PROVIDED EQUIPMENT AND/OR FIXTURES
11 00 03.2.1	FOLDING TABLE STORAGE CART
11 00 04.2.1	STACKABLE CHAIR STORAGE CART
11 00 05.2.1	WASHER & DRYER SELECTED BY OWNER AND PROVIDED BY CONTRACTOR
11 00 06.2.1	REFRIGERATOR SELECTED BY OWNER AND PROVIDED BY CONTRACTOR
11 00 07.2.1	DISHWASHER SELECTED BY OWNER AND PROVIDED BY CONTRACTOR
11 00 08.2.1	MICROWAVE OVEN SELECTED BY OWNER AND PROVIDED BY CONTRACTOR
11 00 09.2.1	COMMERCIAL GRADE SWING DOOR FREEZER SELECTED BY OWNER AND PROVIDED BY CONTRACTOR
11 00 10.2.1	COMMERCIAL GRADE SWING DOOR REFRIGERATOR SELECTED BY OWNER AND PROVIDED BY CONTRACTOR
27 21 26.2.1	DATA COMMUNICATIONS 24" X 22" IT CABINET

NO.	REVISION DESCRIPTION	BY	DATE

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DOING THE MOST GOOD
NILES FACILITY
1707 MILLER DR. NILES, MI 49120

SHEET TITLE:
FURNITURE PLAN

MODELED BY: JCH, AND
DESIGNED BY: ARD
PM REVIEW: ARD
QA/QC REVIEW: MDN
DATE: 07/31/2023
SEAL: STATE OF MICHIGAN ARVIN RIC DELACRUZ ARCHITECT No. 1301060203 LICENSED ARCHITECT
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7/27/2023 4:46:15 PM O:\Projects\2022\22-0578 Salvation Army - Niles Bldg\1 Drawing Files_Arch_Revit

LEGEND:

V	PLUMBING SYSTEM VENT
CW	DOMESTIC COLD WATER
SCW	SOFT COLD WATER
TW	TEPID WATER
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
SAN	SANITARY SEWER
G	GAS
RS	REFRIGERANT SUCTION
RL	REFRIGERANT LIQUID
	DIRECTION OF FLOW
	DROP TEE IN-LINE
	CAP
	DROP
	RISE
	REDUCER
	UNION
	GATE VALVE
	GLOBE VALVE
	BALL VALVE
	CHECK VALVE
	CALIBRATED BALANCING VALVE
	BUTTERFLY VALVE
	PLUG VALVE, GAS COCK
	PRESSURE REDUCING VALVE
	RELIEF VALVE
	STRAINER WITH FULL SIZE BLOWDOWN VALVE WITH HOSE END AND CAP
	MANUAL AIR VENT
	PUMP
	PRESSURE GAUGE
P/T	COMBINATION PRESSURE AND TEMPERATURE TEST PLUG WITH EXTENDED NECK AND CAP
	THERMOMETER
	TEMPERATURE WELL
	FLEXIBLE CONNECTION
	THROUGH WALL SLEEVE
	POINT OF NEW CONNECTION TO EXISTING
	VOLUME CONTROL DAMPER IN DUCT
	FIRE DAMPER IN HORIZONTAL DUCT
	FIRE DAMPER IN VERTICAL DUCT
M	MOTORIZED DAMPER
T	THERMOSTAT
S	SENSOR
	SUPPLY AIR (SECTION)
	RETURN / EXHAUST AIR(SECTION)
	AIR FLOW DIRECTION
	DUCT TRANSITION
	FLEXIBLE DUCT

DIFFUSER / GRILLE LEGEND:

TAG:	DESCRIPTION:
S-1 (3)	SUPPLY DIFFUSER TYPE (# OF SIMILAR DIFFUSER IN ROOM, ONLY USE IF GREATER THAN 1)
10"Ø	NECK SIZE OF SQUZRE CEILING DIFFUSER (TYPICALLY 24"x24" FACE FOR LAY-IN CEILINGS
400	CFM
S-1 (4)	SUPPLY DIFFUSER / GRILLE TYPE (# OF SIMILAR DIFFUSER / GRILLE IN ROOM, ONLY USE IF GREATER THAN 1)
40"x12"	SIZE OF SUPPLY GRILLE
1750	CFM
11'-0" AFF	MOUNTING HEIGHT ABOVE FINISHED FLOOR (IF WALL MOUNTED)
45° DN	MOUNTING ANGLE WHEN NEEDED (WHEN MOUNTED ON SPIRAL DUCT)
R-1 (4)	RETURN GRILLE TYPE (# OF SIMILAR GRILLE IN ROOM, ONLY USE IF GREATER THAN 1)
14"x6"	SIZE OF RETURN GRILLE
400	CFM (NOTE: IF PLENUM RETURN, NO CFM NEEDED)
11'-0" AFF	MOUNTING HEIGHT ABOVE FINISHED FLOOR (IF WALL MOUNTED)
E-1 (4)	EXHAUST GRILLE TYPE (# OF SIMILAR GRILLE IN ROOM, ONLY USE IF GREATER THAN 1)
14"x6"	SIZE OF RETURN GRILLE
400	CFM
11'-0" AFF	MOUNTING HEIGHT ABOVE FINISHED FLOOR (IF WALL MOUNTED)

ABBREVIATIONS:

AFF	ABOVE FINISH FLOOR
ATR	AIR TEMPERATURE RISE
BF	BELOW FLOOR
BOD	BOTTOM OF DUCT
BOS	BOTTOM OF STEEL
BTUH	BRITISH THERMAL UNIT PER HOUR
BV	BALANCE VALVE
CA	COMPRESSED AIR
CEF	CEILING EXHAUST FAN
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CH	CABINET HEATER
CO	CLEAN OUT
CONC	CONCRETE
CW	DOMESTIC COLD WATER
DB	DECIBELS, SOUND PRESSURE LEVEL
DN	DOWN
EA	EXHAUST AIR/ EACH
EAL	EXHAUST/RELIEF AIR LOUVER
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
EXIST	EXISITING
FD	FLOOR DRAIN
FS	FLOW SWITCH
GPM	GALLONS PER MINUTE
HB	HOSE BIB
HO	HUB OUTLET
HP	HORSEPOWER
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
LAV,L	LAVATORY
LAT	LEAVING AIR TEMPEATURE/LATENT HEAT
LDB	LEAVING DRY BULB
LWB	LEAVING WET BULB
LWT	LEAVING WATER TEMPERATURE
MAT	MIXED AIR TEMPERATURE
MBH	1000 BRITISH THERMAL UNITS PER HOUR
MIN	MINIMUM
MFG	MANUFACTURER
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OA	OUTSIDE AIR
OAL	OUTISDE AIR LOUVER
OD	OVERFLOW DRAIN
OF	OVERFLOW
OFCI	OWNER FURNISHED - CONTRACTOR INSTALLED
PD	PRESSURE DROP
PT	PRESSURE/TEMPERATURE PLUG
RD	ROOF DRAIN
RH	RELATIVE HUMIDITY/REHEAT
RPM	REVOLUTIONS PER MINUTE
BFP	BACKFLOW PREVENTER
S	SINK
SA	SUPPLY AIR
SAN	SANITARY
SCW	SPFT COLD WATER
SP	STATIC PRESSURE
S.S.	STAINLESS STEEL
ST	STORM
TEMP	TEMPERATURE
TOD	TOP OF DUCT
TOS	TOP OF STEEL
TSP	TOTAL STATIC PRESSURE
V	VENT
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WH	WATER HEATER
WPD	WATER PRESSURE DROP
WTW	WALL TO WALL

GENERAL CONTRACTOR REQUIREMENTS:

1. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, ORDINANCES, AND LAWS.
2. ARRANGE AND PAY FOR ALL PERMITS AND INSPECTIONS AS REQUIRED.
3. MAKE ARRANGEMENTS WITH AND PAY ALL CHARGES REQUIRED BY UTILITY COMPANIES FOR, WATER, AND SEWER SERVICES.
4. ALL WORK SHALL BE PERFORMED TO FACILITATE EXPEDITIOUS PROGRESS ON THE WHOLE PROJECT. COORDINATE WORK WITH OTHER TRADES TO MINIMIZE AND RESOLVE POTENTIAL CONFLICTS.
5. COMPLETED SYSTEM SHALL BE TESTED, BALANCED, AND GUARANTEED.
6. PROVIDE A GAS SHUTOFF VALVE AND DIRT LEG AT EACH PIECE OF GAS FIRED EQUIPMENT.
7. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE. THE CONTRACTOR SHALL PROVIDE FITTINGS, OFFSETS, ETC.., AS NECESSARY TO PROPERLY COMPLETE THE INSTALLATION OF THE SYSTEMS.
8. CONTRACTOR TO FURNISH AND INSTALL WATER HAMMER ARRESTERS AT EACH VALVED FIXTURE.
9. ALL PIPES PASSING THRU FINISHED WALLS, PARTITIONS AND FLOORS SHALL BE FITTED WITH ADJUSTABLE ESCUTCHEONS, AND APPROPRIATE FIRE TOPPING WHERE REQUIRED.
10. FURNISH AND INSTALL ALL VALVING FOR THE PROPER SECTIONALIZING AND OPERATION OF THE PIPING SYSTEM.
11. LAYOUT PLUMBING WORK TO AVOID CONFLICTS WITH OTHER BUILDING COMPONENTS. ESTABLISH ELEVATION OF PUBLIC SEWER SYSTEM.
12. WHERE FIXTURES ARE MOUNTED TO WALLS SEAL ALL INTERSECTIONS WITH SILICONE CAULK.
13. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY DETAIL OF CONSTRUCTION. CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS NECESSARY FOR A COMPLETE CODE COMPLYING MECHANICAL SYSTEM TO BE IN PROPER WOKRING ORDER.
14. PROVIDE APPROPRIATE FIRE STOPPING MATERIALS WHERE FIRE RATED ASSEMBLIES ARE PENETRATED.
15. MATERIALS EXPOSED WITHIN A PLENUM SHALL BE NONCOMUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTEM E84. EXISTING AND NEW PVC PIPING WILL REQUIRE 1/2 INCH MINERAL FIBER INSULATION WITH VAPOR RETARDER FACING THAT MEETS ASTM E84.
16. CONTROLS: MECHANICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL CONDUIT AND WIRING FOR LOW VOLTAGE AND LINE VOLTAGE REQUIREMENTS FOR PROPER FUNCTION AND COMMUNICATION OF EQUIPMENT.

ROOFTOP UNITS

				SUPPLY FAN				RETURN FAN		HEATING COIL			COOLING COIL				HOT GAS RE-HEAT		
MARK	MODEL	MIN OA CFM	MAX OA CFM	CFM	ESP	HP	BHP	CFM	HP	INPUT MBH	OUTPUT MBH	EAT/LAT	TOTAL MBH	SENSIBLE MBH	EAT (DB/WB)	LAT (DB/WB)	MBH	V/P	REMARKS
RTU-1	MPSH10D	90	1200	4000	0.5	3	2.7	4000	1/3	150	121.5	60.0/88.0	122.1	104.0	81.0/66.2	56.9/56.3	48.2	208/3	1,2,3,4,5
RTU-2	MPSA08D	175	990	3,000	0.5	2	1.6	-	-	150	121.5	60.0/97.3	100.0	84.5	81.6/66.6	55.6/55.6	40.5	208/3	1,2,3,4,5
RTU-3	MPSA03D	125	125	1200	1.2	1	-	-	-	75	60.8	60.0/105.5	37.0	27.8	80.0/67.0	59.1/57.5	-	208/3	1,2
RTU-4	MPSA05D	75	340	2000	0.9	1	-	-	-	75	60.8	60.0/88.5	56.8	44.7	78.4/64.4	57.6/54.7	-	208/3	1,2,3,4
RTU-5	MPSA03D	125	275	1200	1.2	1	-	-	-	75	60.8	60/105.5	37.0	27.6	80.0/67.0	59.1/57.5	-	208/3	1,2,3

1. BASED ON "DAIKIN".
2. PROVIDE WITH DISCONNECT, CONVIENECE OUTLET, ROOF CURB, 7-DAY PROGRAMABLE THERMOSTAT, 2-STAGE HEATING AND 2-STAGE COOLING.
3. PROVIDE WITH DEMAND CONTROLLED VENTILATION AND RETURN AIR SMOKE DETECTOR.
4. PROVIDE WITH ECONOMIZER.
5. PROVIDE WITH STAINLESS STEEL BURNER AND 2-STAGE FAN CONTROL.

EXHAUST FANS

MARK	MODEL	CFM	ESP	HP	BHP	RPM	V/P	REMARKS
EF-1	G-120-B	820	0.5	1/6	0.11	1063	120/1	1,2,3
EF-2	SP-A110	100	0.2	17 WATTS	-	950	120/1	1,2,4

1. BASED ON "GREENHECK".
2. PROVIDE WITH DISCONNECT, BACKDRAFT DAMPER AND SOLID STATE SPEED CONTROLLER.
3. PROVIDE WITH 18" ROOF CURB.
4. PROVIDE WITH TIMER SWITCH.

UNIT HEATERS

MARK	MODEL	INPUT MBH	OUTPUT MBH	CFM	HP	RPM	V/P	REMARKS
UH-1	HDS-100	100	82	1490	1/6	1050	120/1	1,3
UH-2	MUH03-81	-	10.2	350	1/100	1600	208/1	2,3

1. BASED ON "MODINE".
2. BASED ON "QMARK".
3. PROVIDE WITH THERMOSTAT AND DISCONNECT.

AIR INLETS AND OUTLETS SCHEDULE

MARK	MODEL	DESCRIPTION	REMARKS
E-1	50F	1/2x1/2x1/2 GRID CORE, LAY-IN, ALUMINUM, BAKED ON ENAMEL	1
E-2	350RL	SINGLE DEFLECTION, SURFACE MOUNTED, STEEL, BAKED ON ENAMEL	1
R-1	50F	1/2x1/2x1/2 GRID CORE, LAY-IN, ALUMINUM, BAKED ON ENAMEL	1
R-2	350RL	SINGLE DEFLECTION, SURFACE MOUNTED, STEEL, BAKED ON ENAMEL	1
S-1	TMS	24x24 LOUVER FACE, LAY-IN, STEEL, BAKED ON ENAMEL	1
S-2	FL-20	5 FOOT LONG 2-SLOT LINEAR SLOT DIFFUSER, 2" SLOT WIDTH, 12" INLET PLENUM, BAKED ON ENAMEL	1
S-3	TMR	ROUND THREE CONE DIFFUSER, SURFACE MOUNTED, STEEL, BAKED ON ENAMEL	1

1. BASED ON "TITUS".

KITCHEN MECHANICAL EQUIPMENT LIST

GEF-1 **GREASE EXHAUST FAN**
MANUFACTURER: CAPTIVEAIRE
MODEL: DU85HFA
AIRFLOW: 1462 CFM
ESP: 1.25 IN. W.G.
RPM: 1377
HP: 3/4
BHP: 0.461
V/P: 120/1
REMARKS: PROVIDE WITH DISCONNECT, GREASE BOX, FAN BASE CERAMIC SEAL & ROOF CURB.

HOOD-1 **COOKING HOOD**
MANUFACTURER: CAPTIVEAIRE
MODEL: 5424ND-2-PSP-F
LENGTH: 6'-6"
WIDTH: 4'-6"
EXHAUST AIRFLOW: 1462 CFM
SUPPLY AIRFLOW 1316 CFM
DESCRIPTION: 430 S.S. CONSTRUCTION WITH (4) 20" x 16" 85% EFFICENT @ 7 MICRON FILTERS, (2) RECCESSED ROUND LIGHTS, 4.0/4.0 TANK FIRE SUPPRESSION SYSTEM, 18" HIGH FONT,LEFT, RIGHT FIELD WRAPPER, 80" H x 90" W 430 S.S BACKSPLASH, 48" H X 54" W 430 S.S. END PANELS ON BOTH LEFT AND RIGHT SIDE, INSULATION FOR BACK OF HOOD, RISER SENSOR, 90" x 16" PERFORATED SUPPLY PLENUM.
REMARKS: PROVIDE WITH GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW" ROUND 20 GAUGE 430 S.S. DUCTWORK LISTED TO UL-1978 INSTALLED WITH "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS.

MAU-1 **MAKE-UP AIR UNIT**
MANUFACTURER: CAPTIVEAIRE
MODEL: A1-D.250-15D
AIRFLOW: 1462 CFM
ESP: 0.5 IN. W.G.
RPM: 1677
HP: 1
BHP: 0.703
INPUT MBH: 130.1
OUTPUT MBH: 119.8
V/P: 120/1
REMARKS: PROVIDE WITH DISCONNECT, MOTORIZED BACKDRAFT DAMPER, SMOKE DETECTOR/ALARM INTERLOCK, & ROOF CURB.

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PROJECT:
NILES FACILITY
THE SALVATION ARMY
1707 MILLER DRIVE
NILES, MI 49120

SHEET TITLE:
MECHANICAL SCHEDULES

MODELED BY: TR
DESIGNED BY: AP
PM REVIEW: AP
QA/QC REVIEW: MF
DATE: 07/31/2023
SEAL:
STATE OF MICHIGAN
ADAM ISAIAH POZNANSKI
ENGINEER
PROFESSIONAL

SIGNATURE:
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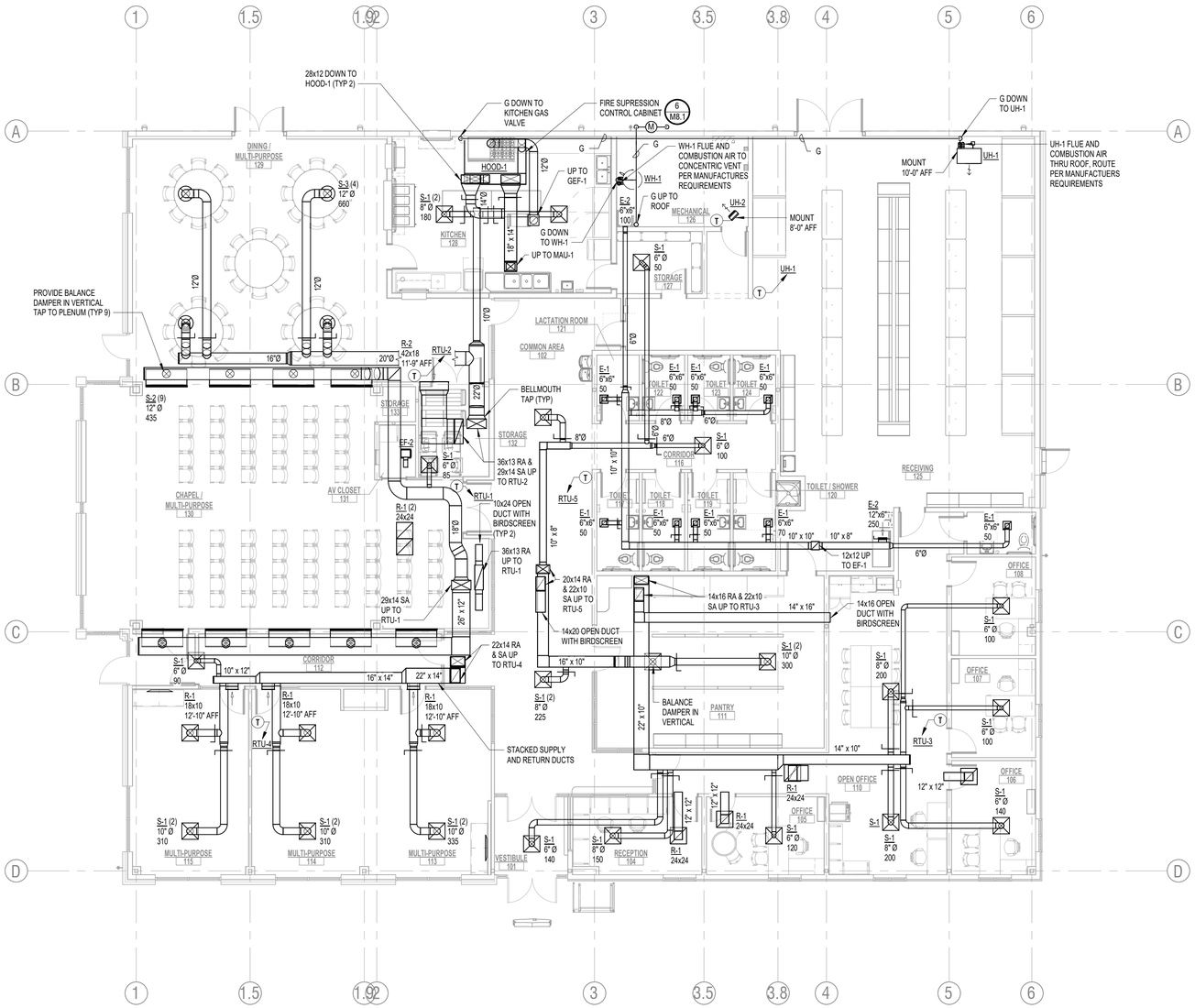
DUCT SIZING CHART	
AIRFLOW (CFM)	SIZE (in) OR EQUIVALENT
0-100	6"Ø
101-250	8"Ø
251-400	10"Ø
401-650	12"Ø
651-1000	14"Ø
1001-1400	16"Ø



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

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FIRST FLOOR - HVAC PLAN

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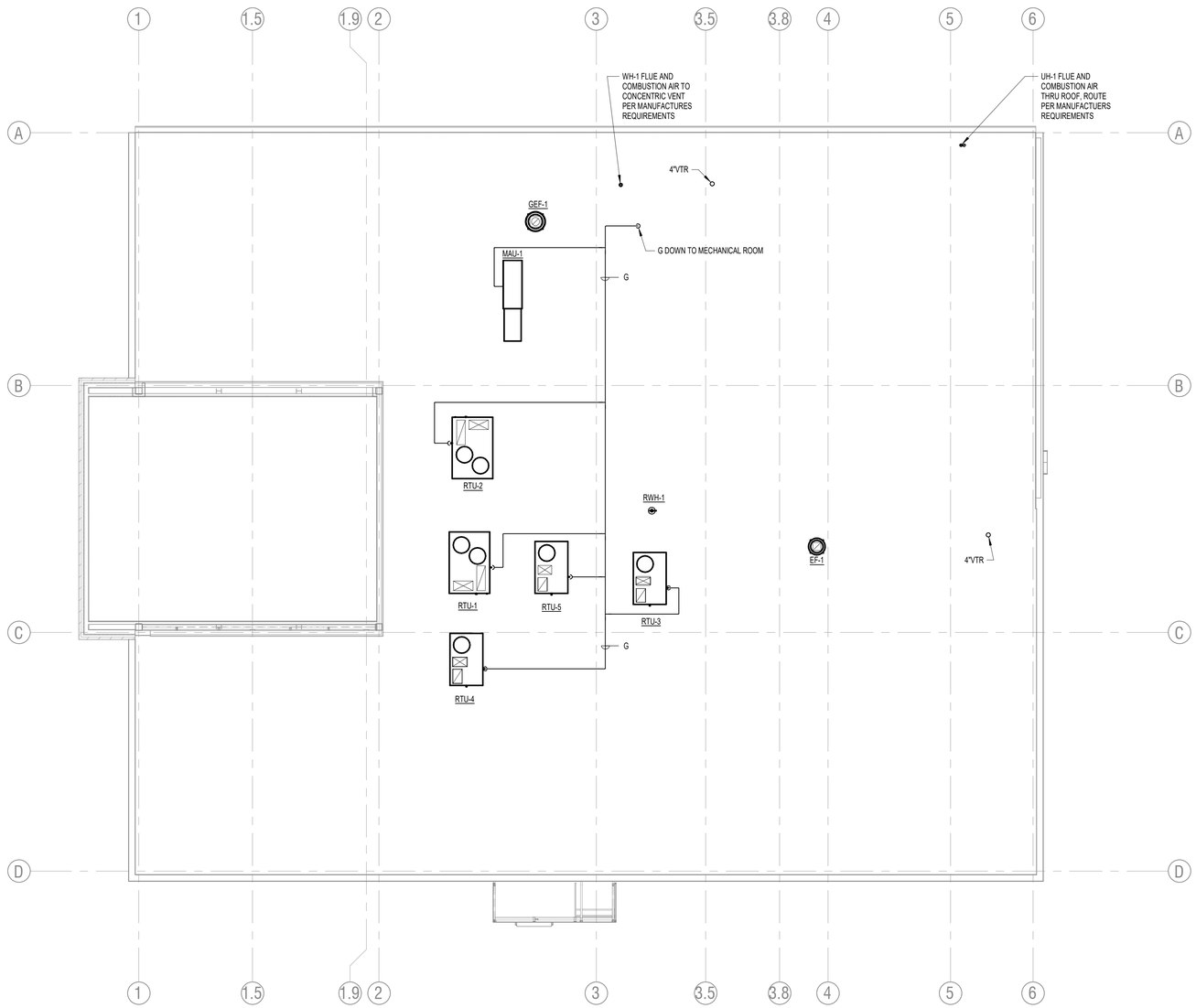

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ROOF - MECHANICAL PLAN
SCALE: 1/8" = 1'-0"

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ROOF - MECHANICAL PLAN

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STATE OF MICHIGAN
ADAM ISAAH POZNANSKI
ENGINEER
No. 6201065600
LICENSED PROFESSIONAL ENGINEER

SIGNATURE:
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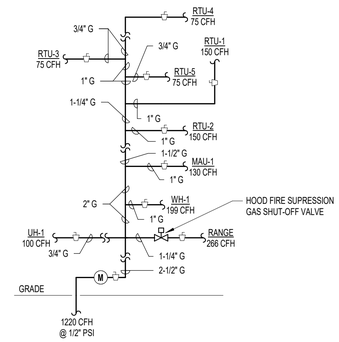
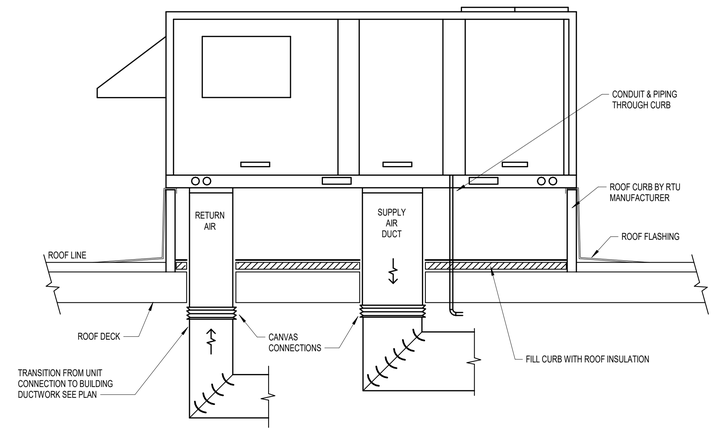


6 / M8.1 **GAS SCHEMATIC**
SCALE: NONE



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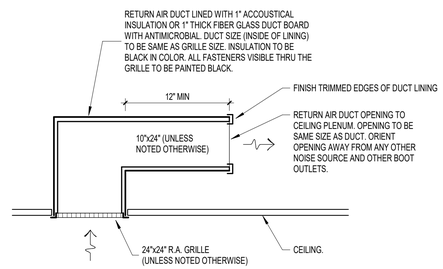

5 / M8.1 **RETURN AIR BOOT**
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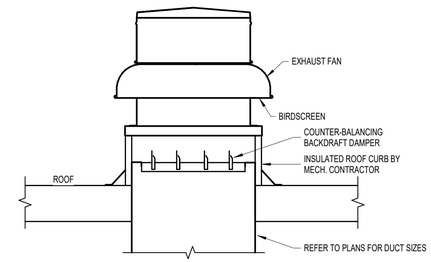
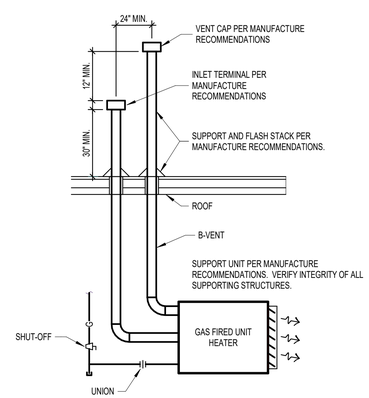
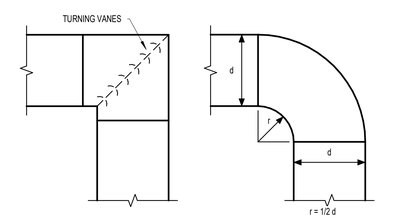


2 / M8.1 **ROOF EXHAUST FAN**
SCALE: NONE



4 / M8.1 **UNIT HEATER (GAS)**
SCALE: NONE



RADIUS TURNS WITH AN INSIDE RADIUS OF
LESS THAN 1/2 d ARE NOT ACCEPTABLE.

1 / M8.1 **ACCEPTABLE DUCT TURNS**
SCALE: NONE

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MECHANICAL DETAILS

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STATE OF MICHIGAN
ADAM IBRAHIM POZNANSKI
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No. 6201065650
LICENSED PROFESSIONAL ENGINEER

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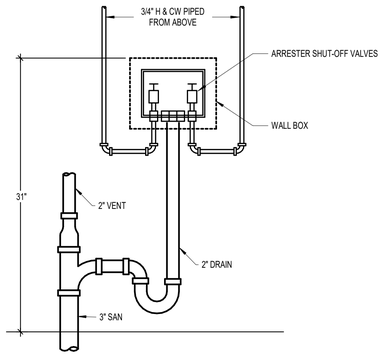

6 / M8.2 **WASHER CONNECTION**
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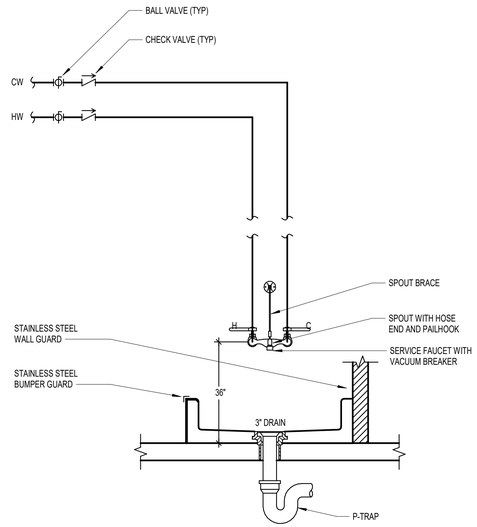
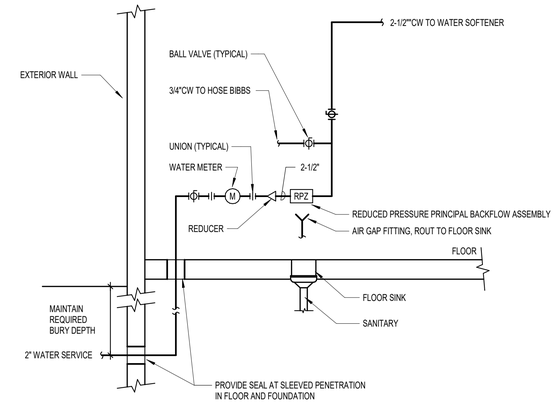
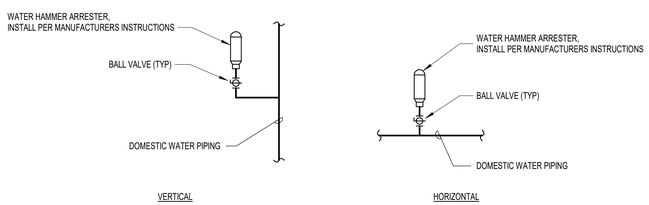


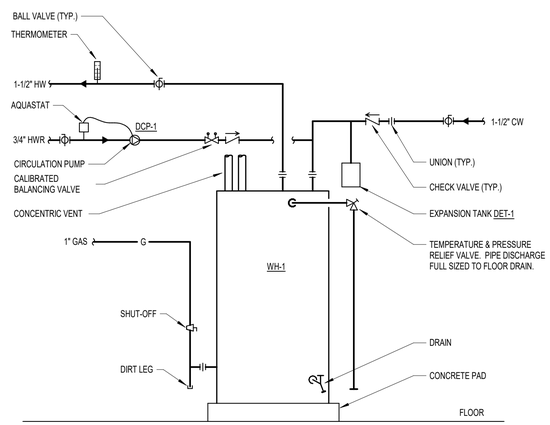
4 / M8.2 **MOP BASIN DETAIL**
SCALE: NONE



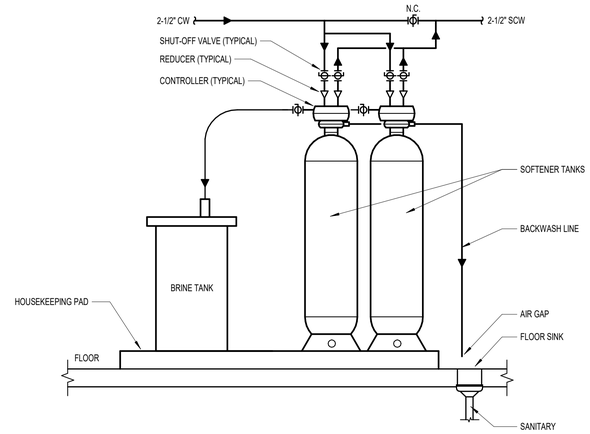
2 / M8.2 **WATER SERVICE**
SCALE: NONE



5 / M8.2 **WATER HAMMER ARRESTER**
SCALE: NONE



3 / M8.2 **WATER HEATER**
SCALE: NONE



1 / M8.2 **WATER SOFTENER DETAIL**
SCALE: NONE

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PROJECT:
NILES FACILITY
THE SALVATION ARMY
1707 MILLER DRIVE
NILES, MI 49120

SHEET TITLE:
MECHANICAL DETAILS

MODELED BY: CS
DESIGNED BY: AP
PM REVIEW: AP
QA/QC REVIEW: MF
DATE: 07/31/2023
SEAL:

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23100151

SHEET NO.
M8.2

File Path

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	CW	HW	SAN	V	FIXTURE MODEL	FIXTURE MANUFACTURER	TRIM MODEL	TRIM MANUFACTURER	DESCRIPTION	REMARKS
CO-HD	CLEANOUT	-	-	4"	-	ZN1400-HD	ZURN	-	-	EXTRA-HEAVY-DUTY LEVEL-TROL ADJUSTABLE FLOOR CLEANOUT - BASEMENT LOCATIONS ONLY	
CO-LD	CLEANOUT	-	-	4"	-	ZN-1400	ZURN	-	-	LIGHT-DUTY LEVEL-TROL ADJUSTABLE FLOOR CLEANOUT - ALL BELOW RAISED FLOOR LOCATIONS	
EWC-1	ELECTRIC WATER COOLER	1/2"	-	1-1/2"	1-1/4"	LVRCTL8WSK	ELKAY	98324C STAINLESS STEEL CANE APRON	ELKAY	EZH2O VANDAL-RESISTANT BOTTLE FILLING STATION, & BI-LEVEL COOLER, FILTERED 8GPH STAINLESS, CHILLING CAPACITY OF 8.0 GPH OF 50 DEGREE F. DRINKING WATER, BASED ON 80 DEGREE F. INLET WATER AND 90 DEGTREE F. AMBIENT, PER ASHRAE 18 TESTING. FEATURES SHALL INCLUDE VISUAL FILTER MONITOR, FILTERED, GREEN TICKER, LAMINAR FLOW, REAL DRAIN, VANDAL-RESISTANT. FURNISHED WITH VANDAL RESISTANT BUBBLER. ELECTRONIC BOTTLE FILLER BUTTON WITH MECHANICAL FRONT BUBBLER BUTTON ACTIVATION. PRODUCT SHALL MOUNT ON WALL, SERVING 2 STATIONS. UNIT SHALL BE LEAD-FREE DESIGN WHICH IS CERTIFIED TO NSF/ANSI 61 & 372 (LEAD FREE) AND MEETS FEDERAL AND STATE LOW-LEAD REQUIREMENTS. PROVIDE STAINLESS STEEL CANE APRON.	
FD-1	FLOOR DRAIN	-	-	3", 4"	-	ZN415B	ZURN	SURE SEAL TRAP SEAL	RECTORSEAL	FLOOR DRAIN, DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS AND "TYP B" POLISHED NICKEL BRONZE, 5" LIGHT DUTY STRAINER. PROVIDE SURE SEAL TRAP SEALS	
FD-2	FLOOR DRAIN	-	-	3", 4"	-	ZN415B-4	ZURN	SURE SEAL TRAP SEAL	RECTORSEAL	FLOOR DRAIN, DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS AND "TYP B" POLISHED NICKEL BRONZE, 5" LIGHT DUTY STRAINER WITH 4" DIAMETER. PROVIDE SURE SEAL TRAP SEALS	
FS-1	FLOOR SINK	-	-	4"	-	ZN1902-2	ZURN	SURE SEAL TRAP SEAL	RECTORSEAL	FLOOR SINK, SANI-FLOR RECEPTOR 12x12x10 DEEP CAST IRON BODY AND SQUARE, LIGHT DUTY GRATE WITH 1/2" SLOTTED OPENINGS, WHITE ACID RESISTING PORCELAIN INTERIOR AND TOP, COMPLETE WITH ABS ANTI-SPLASH INTERIOR BOTTOM DOME STRAINER, PROVIDE HALF GRATE AND SURE SEAL TRAP SEAL	
FS-2	FLOOR SINK	-	-	4"	-	ZN1926-33	ZURN	SURE SEAL TRAP SEAL	RECTORSEAL	FLOOR SINK, SANI-FLOR RECEPTOR 16x16x12 DEEP CAST IRON BODY WITH SEEPAGE FLANGE AND SQUARE, HEAVY-DUTY GRATE WITH 9/16 SLOTTED OPENINGS, WHITE ACID RESISTING EPOXY COATED INTERIOR AND TOP, WHITE A.R.C. ANTI-SPLASH BOTTOM DOME STRAINER, PROVIDE SURE SEAL TRAP SEAL	
HB-1	HOSE BIBB	3/4"	-	-	-	MODEL 68	WOODFORD	-	-	BACKFLOW PROTECTED AUTOMATIC DRAINING FREEZELESS WALL HYDRANT WITH INTEGRAL, LOCKING STAINLESS STEEL HEAD COVER, STANDARD CHROME FINISH, ASSE 1053 LISTED HYDRANT, PATENTED HIGH FLOW DOUBLE CHECK BACK PREVENTER, ASSE 1052 APPROVED	
L-1	LAVATORY - BARRIER FREE	1/2"	1/2"	2"	1-1/2"	0356.421	AMERICAN STANDARD	22C651	DELTA FAUCET	LUCERNE WALL-HUNG LAVATORY, SINGLE CENTER FAUCET HOLE, VITREOUS CHINA, FRONT OVERFLOW, D-SHAPED BOWL, SELF-DRAINING DECK AREA WITH CONTOURED BACK AND SIDE SPLASH SHEILDS, FAUCET LEDGE, PROVIDE FLOOR MOUNT CONCEALED ARMS SUPPORT, OFFSET OPEN GRID STRAINER AND ASSE 1070 MIXING VALVE, SINGLE CONTROL CAST BRASS LAVATORY FAUCET, SINGLE HOLE MOUNT METAL HOLD-DOWN PACKAGE, POLISHED CHROME PLATE FINISH, CERAMIC CARTRIDGE WITH ROTATING LIMIT STOP, VANDAL RESISTANT ADA COMPLIANT LEVER HANDLE WITH COLOR INDEX, 0.5 GPM VANDAL RESISTANT NON-AERATING SPRAY OUTLET	
LT-1	LAUNDRY TRAY	1/2"	1/2"	2"	1-1/2"	FL-1	FIAT	A-1 FAUCET	FIAT	MOLDED STONE, FLOOR MOUNTED SERV-A-SINK WITH FIAT A-1 CHROME PLATED FAUCET, 4" CENTERSET, 4" BLADE HANDLES, 6-3/4" SWING SPOUT	
OSS-1	OIL / SAND SEPARATOR	-	-	4"	3"	OS-50-C24-HP	STRIEM	SR24	STRIEM	50 GPM POLYETHYLENE OIL / SAND SEPERATOR, 4" INLET / OUTLETS SCHEDULE 40 PLAIN END, MAX FLOW RATE 50 GPM, LIQUID CAPACITY: 52 GPM, MAX OIL CAPACITY: 34.1 GALLONS, SAND CAPACITY: 12.5 GALLONS, HIGHWAY RATED CAST IRON COVER	
RWH-1	ROOF WATER HYDRANT	1"	-	-	-	MODEL SRH-MS ROOF	WOODFORD	-	-	FREEZELESS SANITARY ROOF HYDRANT, ASSE 1057 LISTED, SRH-MS WITH MOUNTING SYSTEM, NO DRAIN LINE REQUIRED - WITH HOSE REMOVED, HOSE CONNECTION BACKFLOW PREVENTER, ASSE 1052 LISTED	
SH-1	SHOWER	1/2"	1/2"	2"	1-1/2"	-	SEE ARCHITECTURAL	T177267SS / R10000 FINISH: STAINLESS	DELTA FAUCET	ARA COLLECTION SHOWER TRIM, TEMPASSURE 17T THERMOSTATIC MIXING VALVE CARTRIDGE, H2OKINETIC TECHNOLOGY SHOWER HEAD, PROVIDE MULTI-CHOICE UNIVERSAL ROUGH-IN, SOLID BRASS FORGED BODY, LEVEL VOLUME CONTROL HANDLE; TEMPERATURE ADJUSTMENT DIAL, RED / BLUE INDICATOR MARKINGS, 1.75 GPM @ 80 PSI, SHOWER ARM OVERALL LENGTH = 16 INCHES INCLUDING THREADED ENDS, FINISH: STAINLESS	
SK-1	KITCHEN SINK - BARRIER FREE	1/2"	1/2"	2"	1-1/2"	LRAD292260	ELKAY	101LF-HDF	DELTA FAUCET	ELKAY LUSTERTONE CLASSIC STAINLESS STEEL 39" x 22" x 6" EQUAL DOUBLE BOWL DROP-IN ADA SINK, 18 GAUGE 304 STAINLESS STEEL, WITH LUSTROUS SATIN FINISH, REAR CENTER DRAIN PLACEMENT, BOTTOM ONLY PADS, DELTA COMMERCIAL KITCHEN FAUCET, SINGLE HANDLE, SINGLE HOLE, ALL METAL FABRICATED BODY, 1.5 GPM, ADA VANDAL RESISTANT LEVER HANDLE, DIAMOND COATED CERAMIC CARTRIDGE, ADJUSTABLE HANDLE LIMIT STOP, CHROME PLATED FINISH DDD	
SK-2	KITCHEN SINK	1/2"	1/2"	2"	1-1/2"						
SS-1	SERVICE SINK	1/2"	1/2"	3"	1-1/2"	MSB-2424	FIAT	830-AA	FIAT	24x24 SERVICE SINK, PROVIDE STAINLESS STEEL WALL AND BUMPER GUARDS, MOP HANGER, 5' LONG x 1/2" DIA. HEAVY DUTY HOSE AND STAINLESS HOSE BRACKET, 830-AA SERVICE FAUCET - CHROME PLATED WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HHOK, AND 3/4" HOSE THREAD ON SPOUT	
WB-1	WALL BOX - ICE MACHINE	1/2"	-	-	-	MDWB1AB	GUY GRAY	-	-	RECESSED ICE MAKER OUTLET BOX, QUARTER TURN ARRESTER VALVE KIT WITH 1/2" SWEAT CONNECTION, 3/8" OUTLET	
WB-2	WALL BOX - WASHING MACHINE	1/2"	1/2"	2"	1-1/2"	SSWB3	GUY GRAY	-	-	CENTER DRAIN, 20 GAUGE 304 STAINLESS STEEL WASHING MACHINE OUTLET BOX WITH QUARTER TURN ARRESTER VALVES, 1/2" MIP/SWEAT CONNECTION, 2" SLIPNUT DRAIN, VALVES COMPLY WITH ASME A112.18.1	
WC-1	WATER CLOSET - BARRIER FREE	1"	-	4"	2"	3461.001	AMERICAN STANDARD	ROYAL 111-1.28	SLOAN VALVE	MADERA FLOWISE TOP SPUD FLOOR MOUNT ELONGATED VITREOUS CHINA TOILET, HIGH EFFICIENCY, OPERATES IN THE RANGE OF 1.1 GPF TO 1.6 GPF. PERMANENT EVERCLEAN SURFACE. FULLY GLAZED 2-1/8" TRAPWAY, 1-1/2" TOP SPUD, PROVIDE HEAVY DUTY TOILET SEAT, EXPOSED, MANUAL, WATER CLOSET FLUSHOMETER FOR FLOOR MOUNTED TOP SPUD BOWLS, FINISH: POLISHED CHROME, 1.28 GPF	

WATER HEATER

MARK	MODEL	SERVICE	STORAGE	GPH REC	INPUT BTUH	V/P	REMARKS
WH-1	EF-100T-199E-3N(A)	NATURAL GAS	100 GALLON	235 GALLON @ 100°F	199,999	120/1	1, 2

1. BASED ON "BRADFORD WHITE".
2. PROVIDE CONDENSATE NEUTRALIZATION KIT.

PLUMBING EQUIPMENT LIST

DCP-1 DOMESTIC CIRCULATOR PUMP
MANUFACTURER: BELL & GOSSETT
MODEL: NBF-36
FLOW: 3 GPM
HEAD: 20 FEET
RPM: 3300
WATTS: 270, FLA: 2.3
V/P: 115V, SINGLE PHASE
CONTROLS: PROVIDE AUTOMATIC TIMER TC-1 AND AQUASTAT

WS-1 WATER SOFTENER
MANUFACTURER: MARLO INCORPORATED
MODEL: MGT-300-2 TWIN PARALLEL SOFTENER SYSTEM
CAPACITY: 300,000 GRAINS PER VESSEL
PIPEING SIZE: 2"
SERVICE FLOW RATE: 68 GPM CONTINUOUS @ 15 PSI DROP
PEAK FLOW RATE: 91 GPM @ 25 PSI DROP
BACKWASH RATE: 15 GPM
MEDIA: 10 CU. FT. RESIN
V/P: 120/1

DET-1 DOMESTIC EXPANSION TANK
MANUFACTURER: BELL & GOSSETT
MODEL: PT-12
VOLUME: 4.4 GALLONS
ACCEPTANCE: 3.2 GALLONS

GI-1 GREASE TRAP
MANUFACTURER: SCHIER
MODEL: GB-50
MAXIMUM OPERATING TEMPERATURE: 150° F CONTINUOUS
CAPACITY - LIQUID: 65 GALLONS
GREASE: 439.5 LBS. (60 GALLONS) @ 50 GPM
SOLIDS: 13 GALLONS
INLET/OUTLET: 4"
PROVIDE ACCESSORIES: ANCHOR KIT - AK-1, COMPOSIT COVER - C24BC AND FIELD CUT RISER - FCR2

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PROJECT:
NILES FACILITY
THE SALVATION ARMY
1707 MILLER DRIVE
NILES, MI 49120

SHEET TITLE:
PLUMBING SCHEDULES AND DETAILS

MODELED BY: CS
DESIGNED BY: AP
PM REVIEW: AP
QA/QC REVIEW: MF
DATE: 07/31/2023
SEAL:

STATE OF MICHIGAN
ADAM ISAAH PIZZNAMBO
ENGINEER
No. 6201065660
LICENSED PROFESSIONAL ENGINEER

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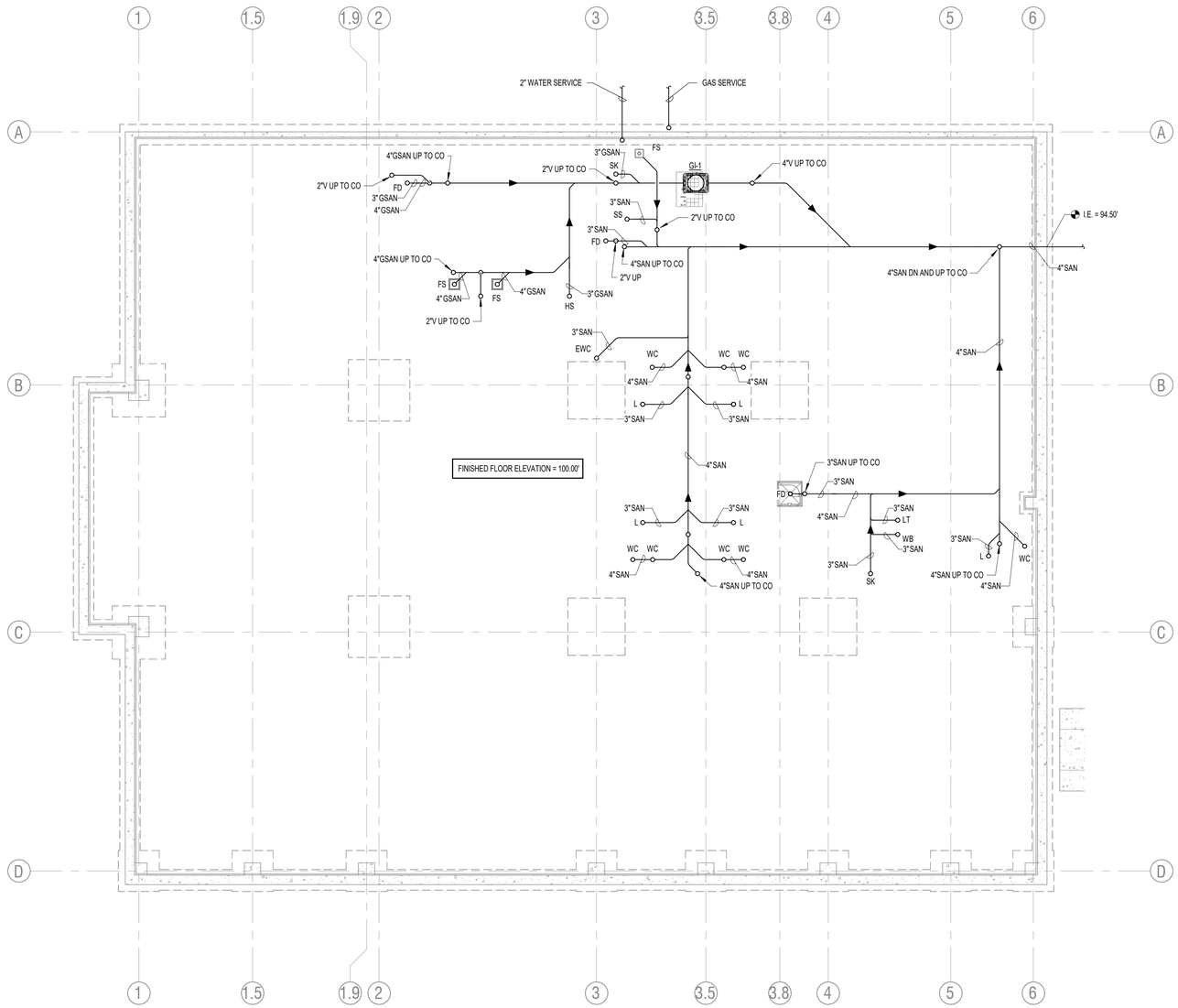

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UNDERGROUND - PLUMBING PLAN
SCALE: 1/8" = 1'-0"

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UNDERGROUND - PLUMBING PLAN

MODELED BY: CS
DESIGNED BY: AP
PM REVIEW: AP
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DATE: 07/31/2023
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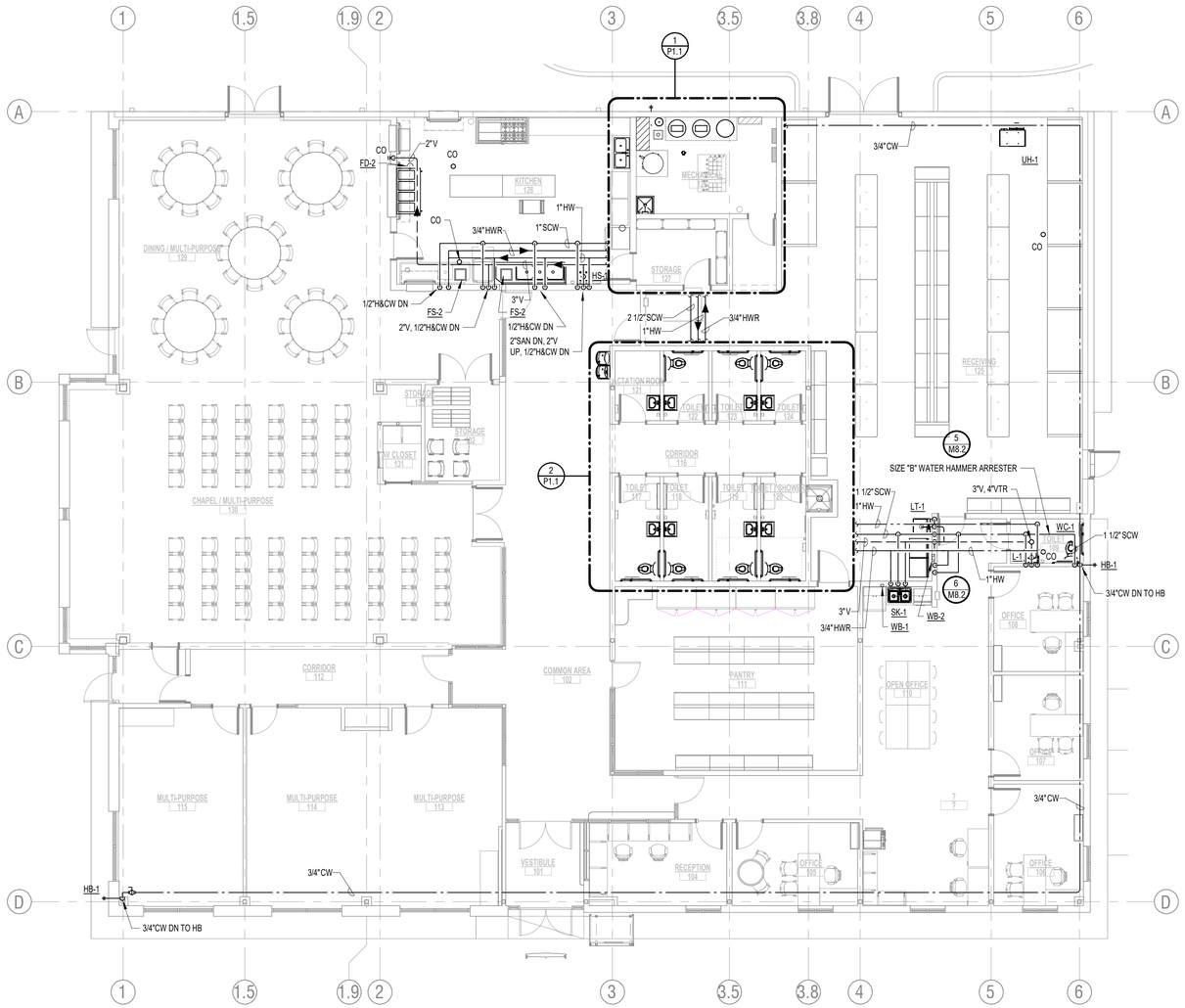
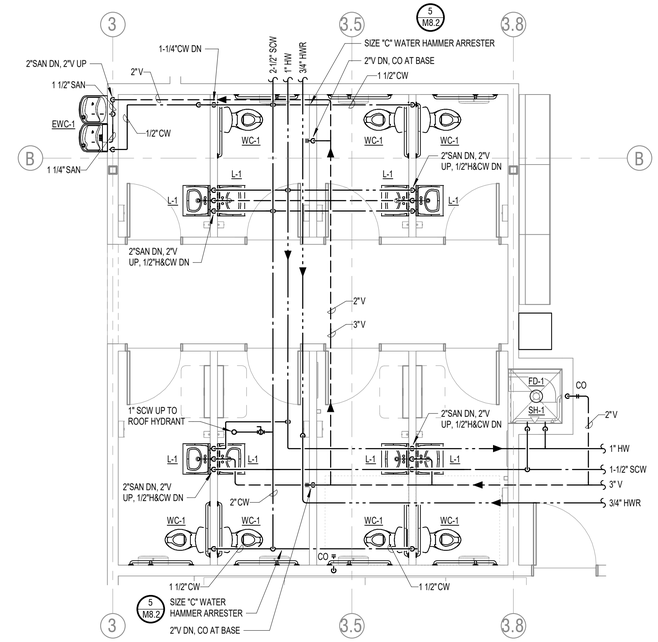
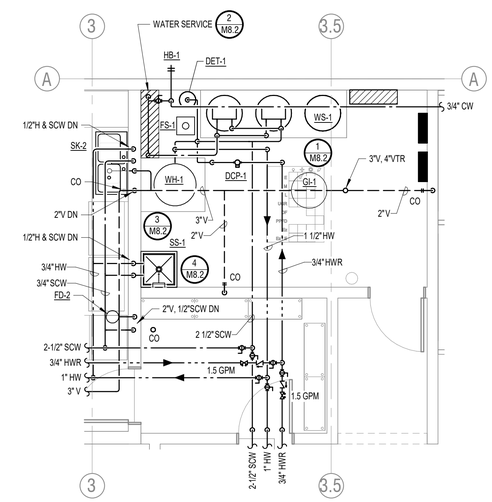


FIRST FLOOR - PLUMBING PLAN
SCALE: 1/8" = 1'-0"



ENLARGED TOILET ROOM PLUMBING PLAN
SCALE: 1/4" = 1'-0"



ENLARGED MECHANICAL PLUMBING PLAN
SCALE: 1/4" = 1'-0"

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NILES, MI 49120

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DATA DEVICES SCHEDULE

CONDUITS AND OUTLETS BY	PROVIDED BY	INSTALLED BY	WIRED BY	E - ELECTRICAL M = MECHANICAL X = OTHERS SYMBOL	DESCRIPTION	M. H. TO CENTER
E	X	X	X		SECURITY BULLET CAMERA, ROUGH IN CEILING. 1 GANG OUTLET BOX W/ 1" CONDUIT TO ACCESSIBLE CEILING SPACE.	96"
E	X	X	X		DATA RECEPTACLE, ROUGH IN. 1-GANG OUTLET BOX W/ 1" CONDUIT TO ACCESSIBLE CEILING SPACE.	18"

ELECTRICAL FIXTURE SCHEDULE

CONDUITS AND OUTLETS BY	PROVIDED BY	INSTALLED BY	WIRED BY	E - ELECTRICAL M = MECHANICAL X = OTHERS SYMBOL	DESCRIPTION	M. H. TO CENTER
E	E	E	E	J	JUNCTION BOX	
E	E	E	E		SINGLE PHASE MOTOR	
E	E	E	E		THREE PHASE MOTOR	
E	E	E	E	$M	MANUAL MOTOR STARTER	NEAR EQUIPMENT
E	E	E	E		AUTOMATIC DOOR CONTROLS	44"
E	E	E	E		DUPLEX RECEPTACLE	18"
E	E	E	E		DUPLEX RECEPTACLE, ABOVE COUNTER OR AS NOTED	44"
E	E	E	E		GFCI RECEPTACLE, WP = WEATHERPROOF IN-USE COVER	18"
E	E	E	E		GFI RECEPTACLE, ABOVE COUNTER OR AS NOTED, WP = WEATHERPROOF IN-USE COVER	44"
E	E	E	E		QUAD PLEX RECEPTACLE, ABOVE COUNTER OR AS NOTED	44"
E	E	E	E		SPECIAL PURPOSE RECEPTACLE	18"
E	E	E	E	TC	TIME CLOCK CONTROL	

ELECTRICAL EQUIPMENT SCHEDULE

CONDUITS AND OUTLETS BY	INSTALLED BY	PROVIDED BY	WIRED BY	E - ELECTRICAL M = MECHANICAL X = OTHERS SYMBOL	DESCRIPTION	M. H. TO CENTER
E	E	E	E		FUSIBLE DISCONNECT SWITCH W/ FUSES TO SUIT, WP = NEMA 3R, XP = CLASS 2, DIVISION 1 RATED	NEAR EQUIPMENT
E	E	E	E		ELECTRIC METER	44"
E	E	E	E		CIRCUIT BREAKER PANEL, SURFACE MOUNTED	44"
E	E	E	E		DISTRIBUTION PANEL, SURFACE	44"
E	E	E	E		OIL TYPE TRANSFORMER	

LIGHTING DEVICES SCHEDULE

CONDUITS AND OUTLETS BY	PROVIDED BY	INSTALLED BY	WIRED BY	E - ELECTRICAL M = MECHANICAL X = OTHERS SYMBOL	DESCRIPTION	M. H. TO CENTER
E	E	E	E	C	LIGHTING CONTACTOR, MULITPLE CIRCUITS	48"
E	E	E	E	DL	DAYLIGHT SENSOR	CEILING
E	E	E	E	VS	VACANCY SENSOR	CEILING
E	E	E	E	OS	OCCUPANCY SENSOR, WALL MOUNTED	80"
E	E	E	E	PC	PHOTOCELL SENSOR, WALL MOUNTED	80"
E	E	E	E	$D	DIMMING VOLTAGE SWITCH	44"
E	E	E	E	$OS	OCCUPANCY SENSOR SWITCH, DUAL TECHNOLOGY	44"
E	E	E	E	$	LOW VOLTAGE LIGHT SWITCH	44"

LIGHT FIXTURE SCHEDULE

MARK	SYMBOL	LAMPS WATTS	LAMPS TYPE	MANUFACTURER	MTG.	REMARKS
L1		35 W	LED	COLUMBIA LIGHTING: #CCL22 - LSCS OR EQUIVALENT	RECESSED	2'X2' FLAT TROFFER LIGHT. 3764 DELIVERED LUMENS.
L2		35 W	LED	COLUMBIA LIGHTING: #CCL22 - LSCS - ELL14 OR EQUIVALENT	RECESSED	2'X2' TROFER LIGHT W/ EMERGENCY BACKUP BATTERY. 3764 DELIVERED LUMENS.
L3		21 W	LED	COLUMBIA LIGHTING: #CCL22 - LSCS OR EQUIVALENT	RECESSED	2'X2' TROFFER LIGHT. 2642 DELIVERED LUMENS.
L4		21 W	LED	COLUMBIA LIGHTING: #CCL22 - LSCS - ELL14 OR EQUIVALENT	RECESSED	2'X2' TROFFER LIGHT W/ EMERGENCY BACKUP BATTERY. 2642 DELIVERED LUMENS.
L5		13 W	LED	PRESCOLITE: #LBRST - 6RD - M - LSSL - CWCS9 - WH OR EQUIVALENT	RECESSED	6" DIAMETER DOWNLIGHT. 1211 DELIVERED LUMENS.
L6		13 W	LED	PRESCOLITE: #LBRST - 6RD - M - LSSL - CWCS9 - WH BATTERY PACK: #PLD - 10 - M - DUAL LITE OR EQUIVALENT	RECESSED	6" DIAMETER DOWNLIGHT W/ EMERGENCY BACKUP BATTERY. 1211 DELIVERED LUMENS.
L7		21 W	LED	LITECONTROL: #2L - P - D - 4 - 04 - SOF - C1 - 35K - D050 - D01 - 1C - UNV - FA1 - W1 OR EQUIVALENT	AIRCRAFT CABLE 12' - 0" AFF	4' LINEAR PENDANT LIGHT. 1920 DELIVERED LUMENS.
L8		21 W	LED	LITECONTROL: #2l - P - D - 4 - 04 - SOF - C1 - 35K - D050 - D01 - 1C - UNV - FA1 - EF - W1 OR EQUIVALENT	AIRCRAFT CABLE 12' - 0" AFF	4' LINEAR PENDANT LIGHT W/ EMERGENCY BACKUP BATTERY. 1920 DELIVERED LUMENS.
L9		42 W	LED	LITECONTROL: #2L - P - D - 8 - 08 - SOF - C1 - 35K - D050 - D01 - 1C - UNV - FA1 - W1 OR EQUIVALENT	AIRCRAFT CABLE 12' - 0" AFF	8' LINEAR PENDANT LIGHT. 3840 DELIVERED LUMENS.
L10		42 W	LED	LITECONTROL: #2L - P - D - 8 - 08 - SOF - C1 - 35K - D050 - D01 - 1C - UNV - FA1 - EF - W1 OR EQUIVALENT	AIRCRAFT CABLE 12' - 0" AFF	8' LINEAR PENDANT LIGHT W/ EMERGENCY BACKUP BATTERY. 3840 DELIVERED LUMENS.
L11		32 W	LED	COLUMBIA LIGHTING: #MPS4 - 35ML - CW - EU OR EQUIVALENT	3'-0" CHAIN HUNG	4' MULTIPURPOSE LINEAR LIGHT. 4419 DELIVERED LUMENS.
L12		32 W	LED	COLUMBIA LIGHTING: #MPS4 - 35ML - CW - EU - ELL14 OR EQUIVALENT	3'-0" CHAIN HUNG	4' MULTIPURPOSE LINEAR LIGHT W/ EMERGENCY BACKUP BATTERY. 4419 DELIVERED LUMENS.
L13		63 W	LED	COLUMBIA LIGHTING: #MPS8 - 35ML - CW - EU OR EQUIVALENT	3'-0" CHAIN HUNG	8' MULTIPURPOSE LINEAR LIGHT. 8838 DELIVERED LUMENS.
L14		63 W	LED	COLUMBIA LIGHTING: #MPS8 - 35ML - CW - EU - ELL14 OR EQUIVALENT	3'-0" CHAIN HUNG	8' MULTIPURPOSE LINEAR LIGHT W/ EMERGENCY BACKUP BATTERY. 8838 DELIVERED LUMENS.
L15		40 W	LED	COLUMBIA LIGHTING: #ESL4 - 35ML - FAW - EDU OR EQUIVALENT	9'-0" AFF	4' ESCALATE LINEAR LIGHT. 4556 DELIVRED LUMENS.
L16		30 W	LED	BEGHELLI: #BX910LED - 4 - SA - LO - WT30 - 120-277V OR EQUIVALENT.	SURFACE	2' CANOPY LIGHT. 4139 DELIVERED LUMENS W/ EMERGENCY INTEGRATED BATTERY PACK.
PA		36 W	LED	BARBICAN. LIGHTING: #01-015 - 10D - 48H - STM - SCDL - UNV - WCF - WEC - WPC - 1200LM - 3500K - 90CRI - 010V10 OR EQUIVALENT	AIRCRAFT CABLE 14' - 0" AFF	48" CHAPEL DECORATIVE PENDANT LIGHT. 5329 DELIVERED LUMENS.
WA		19 W	LED	EXO OUTDOOR LIGHTING: #SG1 - 20 - 37K - FT - UNV - BLT - EH OR EQUIVALENT	WALL 10'-6" ABOVE GRADE	EXTERIOR EGRESS LIGHT W/ EMERGENCY BACKUP BATTERY. 2310 DELIVERED LUMENS.
WB		10 W	LED	ALPHABET LIGHTING: #BETA - 4R - WD - 10LM - 3018 - 97 - HE40 - HCL - WH - WH -W - UNV - DIM10 OR EQUIVALENT	WALL 10'-0" AFF	CHAPEL DECORATIVE WALL SCONCE. 764 DELIVERED LUMENS.
XA		4 W	LED	COMPASS: #CCR OR EQUIVALENT	8'-0" AFF	EMERGENCY EXIT SIGN W/ EMERGENCY BATTERY PACK. PROVIDE FACES AND CHEVRONS AS SHOWN.

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PROJECT:

NILES FACILITY
THE SALVATION ARMY
1707 MILLER DRIVE
NILES, MI 49120

SHEET TITLE:

ELECTRICAL SCHEDULES

MODELED BY: MW
DESIGNED BY: KM
PM REVIEW: AP
QA/QC REVIEW: KM
DATE: 07/31/2023

SEAL:

STATE OF MICHIGAN
KEITH MARTINEZ
ENGINEER
No. 6201065240
LICENSED PROFESSIONAL ENGINEER

SIGNATURE:
7/31/2023
DATE:

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SCALE:

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ACI JOB # 20-0578
23100151

SHEET NO.
E0.1

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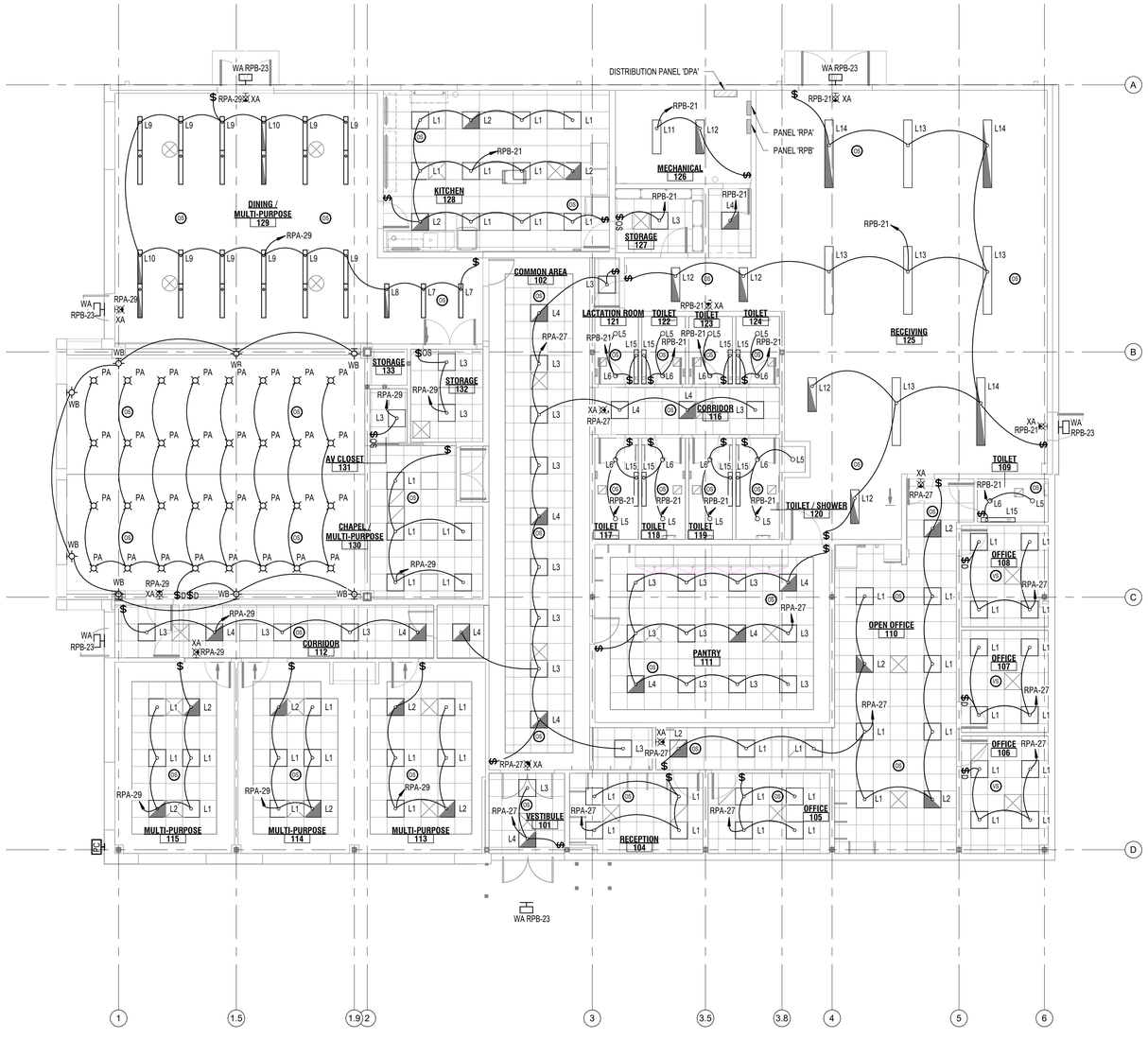

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LIGHTING PLAN
SCALE: 1/8" = 1'-0"

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PROJECT:

NILES FACILITY
THE SALVATION ARMY
1707 MILLER DRIVE
NILES, MI 49120

SHEET TITLE:

LIGHTING PLAN

MODELED BY: Author
DESIGNED BY: KM
PM REVIEW: AP
QA/QC REVIEW: KM
DATE: 07/31/2023

SEAL:

STATE OF MICHIGAN
KEITH MARTINEZ
ENGINEER
No. 62010652240
LICENSED PROFESSIONAL ENGINEER

SIGNATURE:
DATE: 7/31/2023

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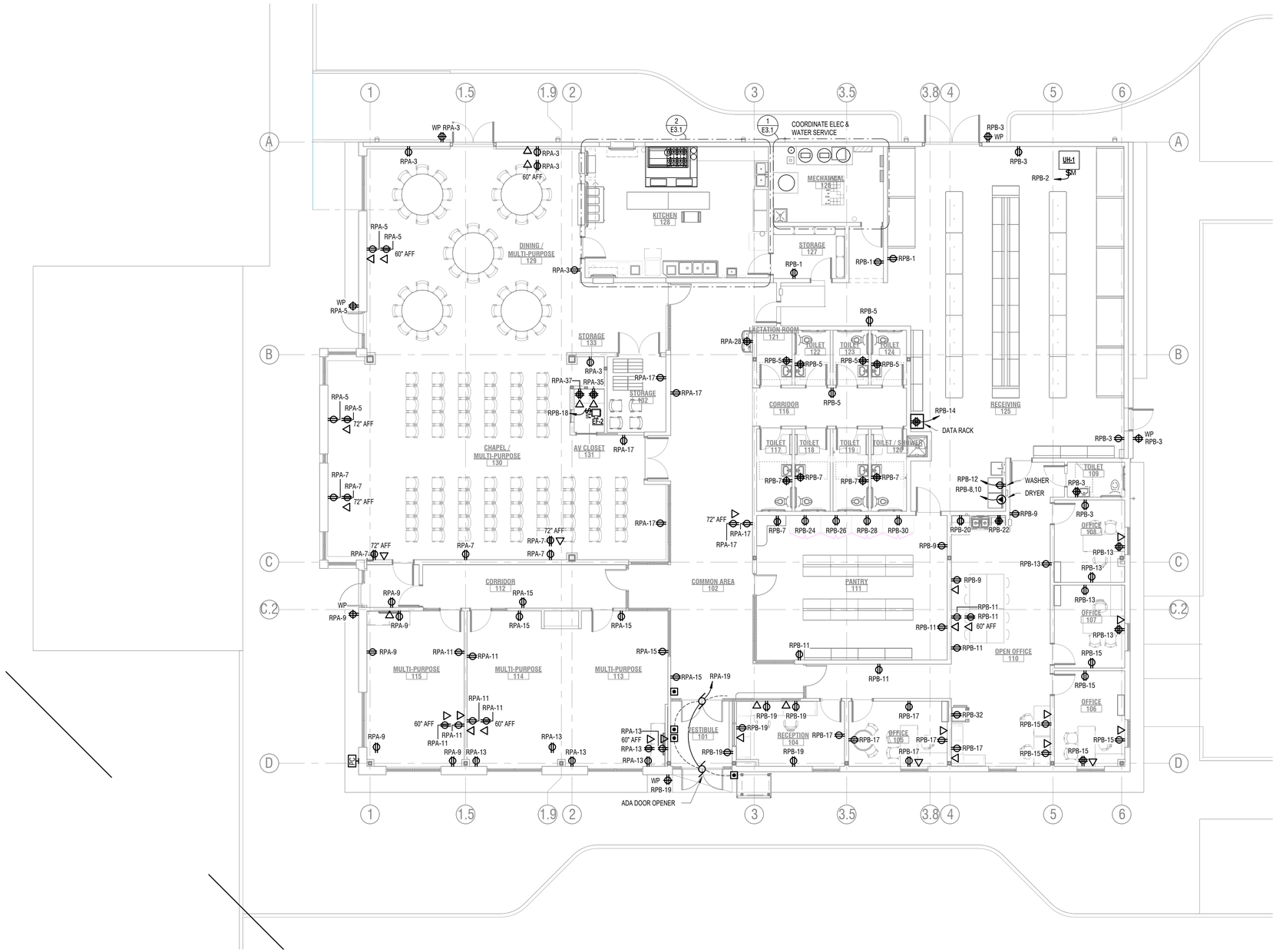
E1.1



POWER & SYSTEMS PLAN
SCALE: 1/8" = 1'-0"

File Path

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NILES FACILITY
THE SALVATION ARMY
1707 MILLER DRIVE
NILES, MI 49120

SHEET TITLE:

POWER PLAN

MODELED BY: Author
DESIGNED BY: KM
PM REVIEW: AP
QA/QC REVIEW: KM
DATE: 07/31/2023

SEAL:

STATE OF MICHIGAN
KEITH MARTINEZ
ENGINEER
No. 6201065240
LICENSED PROFESSIONAL ENGINEER

SIGNATURE:
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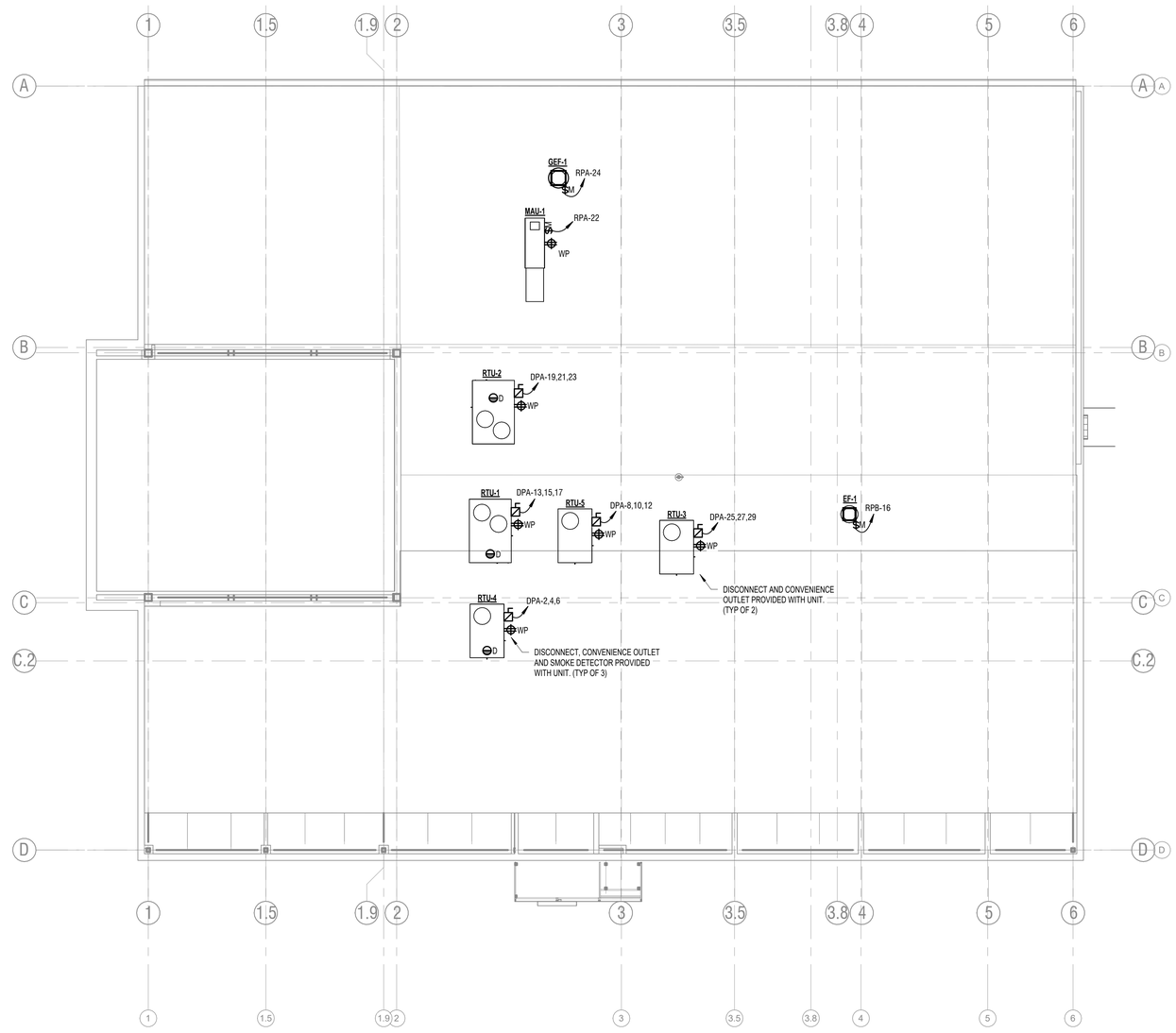
SHEET NO.
E1.2



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

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PROJECT:

NILES FACILITY
THE SALVATION ARMY
1707 MILLER DRIVE
NILES, MI 49120

SHEET TITLE:

ELECTRICAL ROOF PLAN

MODELED BY: Author
DESIGNED BY: KM
PM REVIEW: AP
QA/QC REVIEW: KM
DATE: 07/31/2023

SEAL:

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KEITH MARTINEZ
ENGINEER
No. 6201065240
LICENSED PROFESSIONAL ENGINEER

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SHEET NO.
E2.1

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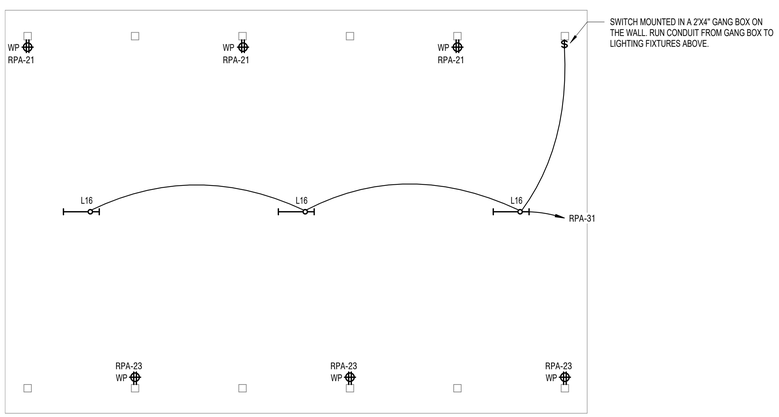
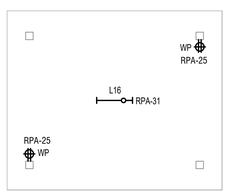
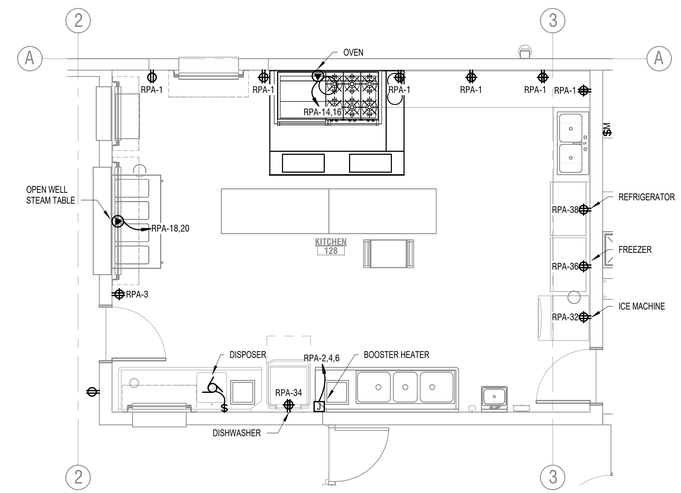
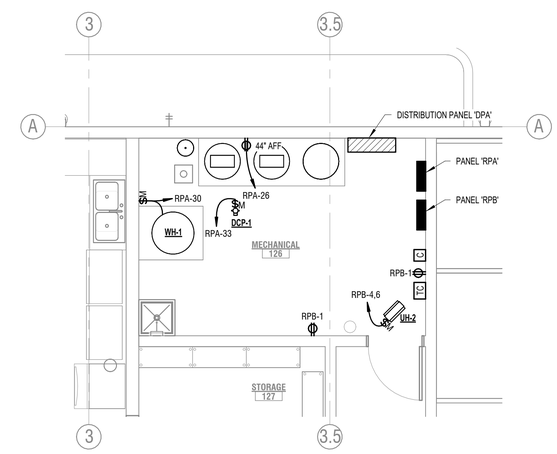




3 / EC1.0 **ENLARGED ELECTRICAL PLAN - OUTDOOR PAVILION**
SCALE: 1/8" = 1'-0"



2 / E1.2 **ENLARGED POWER & SYSTEMS PLAN - KITCHEN**
SCALE: 1/4" = 1'-0"



1 / E1.2 **ENLARGED POWER & SYSTEMS PLAN - ELEC/MECH RM**
SCALE: 1/4" = 1'-0"

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PROJECT:
NILES FACILITY
THE SALVATION ARMY
1707 MILLER DRIVE
NILES, MI 49120

SHEET TITLE:
ENLARGED ELECTRICAL PLANS

MODELED BY: MW
DESIGNED BY: KM
PM REVIEW: AP
QA/QC REVIEW: KM
DATE: 07/31/2023
SEAL:
STATE OF MICHIGAN
KEITH MARTINEZ
ENGINEER
No. 6201065240
LICENSED PROFESSIONAL ENGINEER
SIGNATURE:
7/31/2023
DATE:

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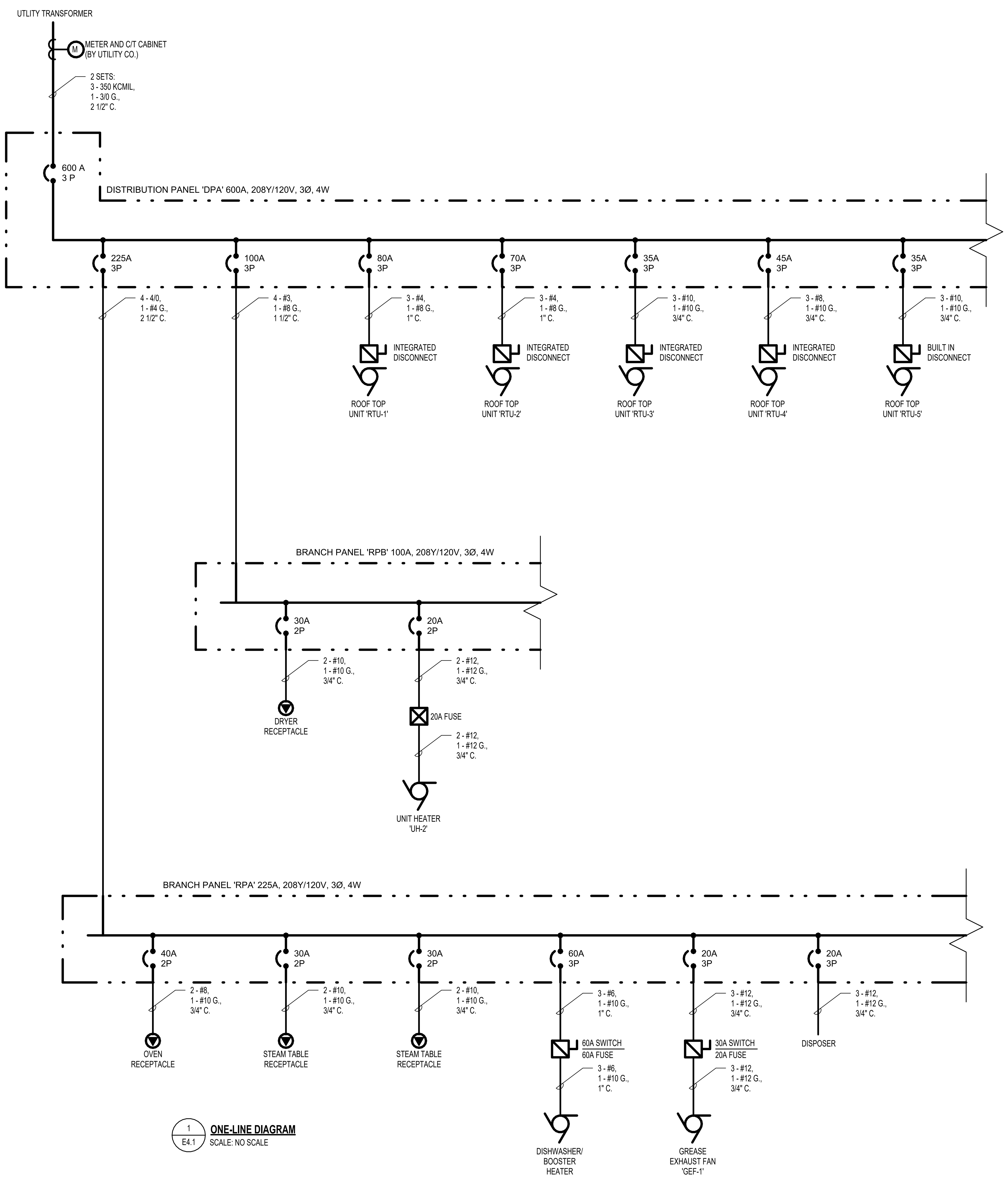

1 E4.1 **ONE-LINE DIAGRAM**
SCALE: NO SCALE

Panel DPA

Location: MECHANICAL 126 — **Supply From:** UTILITY TRANSFORMER — **Mounting:** SURFACE
Voltage: 208Y/120V — **Phases:** 3 — **Wires:** 4
A.I.C. Rating: 65 KAIC — **Mains Rating:** 600 A — **Mains Type:** MAIN CIRCUIT BREAKER

CKT	Description	Trip	Poles	A	A	B	B	C	C	Poles	Trip	Description	CKT
1				15482 VA	4078 VA								2
3	PANEL 'RPA'	225 A	3			15281 VA	4078 VA			3	45 A	RTU-4	4
5								16293...	4078 VA				6
7				8640 VA	2999 VA								8
9	PANEL 'RPB'	100 A	3			8785 VA	2999 VA			3	35 A	RTU-5	10
11								6784 VA	2999 VA				12
13				6717 VA	--					1	--	SPACE	14
15	RTU-1	80 A	3			6717 VA	--			1	--	SPACE	16
17								6717 VA	--	1	--	SPACE	18
19				5518 VA	--					1	--	SPACE	20
21	RTU-2	70 A	3			5518 VA	--			1	--	SPACE	22
23								5518 VA	--	1	--	SPACE	24
25				2999 VA	--					1	--	SPACE	26
27	RTU-3	35 A	3			2999 VA	--			1	--	SPACE	28
29								2999 VA	--	1	--	SPACE	30

Load Classification	Connected Load	Demand Factor	Demand Load
Lighting	3165 VA	100.00%	3165 VA
Receptacle	41854 VA	61.95%	25927 VA
Motor	74592 VA	100.00%	74592 VA
Other	18616 VA	100.00%	18616 VA

Panel Totals	
Total Connected Load:	138193 VA
Total Demand Load:	122266 VA
Total Connected Current:	384 A
Total Demand Current:	339 A

Panel RPA

Location: MECHANICAL 126 — **Supply From:** DPA — **Mounting:** SURFACE
Voltage: 208Y/120V — **Phases:** 3 — **Wires:** 4
A.I.C. Rating: 22 KAIC — **Mains Rating:** 225 A — **Mains Type:** MIAN LUGS ONLY

CKT	Description	Trip	Poles	A	A	B	B	C	C	Poles	Trip	Description	CKT
1	RCPT - WEST WALL...	20 A	1	1080 VA	5458 VA								2
3	RCPT - EAST WALL...	20 A	1			1260 VA	5458 VA			3	60 A	DISHWASHER/BOOSTER HEATER	4
5	RCPT - DINING/CHAPEL	20 A	1					900 VA	5458 VA				6
7	RCPT - WEST WALL CHAPEL	20 A	1	1080 VA	792 VA								8
9	RCPT - MULTI-PURPOSE 115	20 A	1			1080 VA	792 VA			3	20 A	DISPOSER	10
11	RCPT - MULTI-PURPOSE 115	20 A	1					1080 VA	792 VA				12
13	RCPT - MULTI-PURPOSE 114	20 A	1	1080 VA	1500 VA					2	40 A	OVEN - KITCHEN	14
15	RCPT - CORRIDOR 112	20 A	1			900 VA	1500 VA						16
17	RCPT - COMMON AREA 102	20 A	1					1080 VA	1500 VA	2	30 A	STEAM TABLE - KITCHEN	18
19	DOOR OPERATORS -...	20 A	1	500 VA	1500 VA								20
21	RCPT - OUTDOOR PAVILION	20 A	1			540 VA	1392 VA			1	25 A	MUA-1	22
23	RCPT - OUTDOOR PAVILION	20 A	1					540 VA	1068 VA	1	15 A	GEP-1	24
25	RCPT - OUTDOOR PAVILION	20 A	1	360 VA	180 VA					1	20 A	WS-1	26
27	LTG - CORRIDORS	20 A	1			1729 VA	180 VA			1	15 A	EWC-1	28
29	LTG - NORTH	20 A	1					1535 VA	1800 VA	1	20 A	WH-1	30
31	LTG - CHAPEL/DINING	0 A	1	1238 VA	180 VA					1	15 A	RCPT - ICE MACHINE	32
33	DCP-1	15 A	1			270 VA	180 VA			1	15 A	RCPT - DISH WASHER	34
35	RCPT - AV CLOSET - 131	15 A	1					360 VA	180 VA	1	15 A	RCPT - FREEZER	36
37	RCPT - AV CLOSET - 131	15 A	1	360 VA	180 VA					1	15 A	RCPT - REFRIGERATOR	38
39	SPARE	20 A	1			0 VA	--			1	--	SPACE	40
41	SPARE	20 A	1					0 VA	--	1	--	SPACE	42
43	SPARE	20 A	1	0 VA	--					1	--	SPACE	44
45	SPARE	20 A	1			0 VA	--			1	--	SPACE	46
47	SPARE	20 A	1					0 VA	--	1	--	SPACE	48
49	SPARE	20 A	1	0 VA	--					1	--	SPACE	50
51	SPARE	20 A	1			0 VA	--			1	--	SPACE	52
53	SPARE	20 A	1					0 VA	--	1	--	SPACE	54

Load Classification	Connected Load	Demand Factor	Demand Load
Lighting	1720 VA	100.00%	1720 VA
Receptacle	29154 VA	67.15%	19577 VA
Motor	5606 VA	100.00%	5606 VA
Other	10582 VA	100.00%	10582 VA

Panel Totals	
Total Connected Load:	47056 VA
Total Demand Load:	37479 VA
Total Connected Current:	131 A
Total Demand Current:	104 A

Panel RPB

Location: MECHANICAL 126 — **Supply From:** DPA — **Mounting:** SURFACE
Voltage: 208Y/120V — **Phases:** 3 — **Wires:** 4
A.I.C. Rating: 22 KAIC — **Mains Rating:** 100 A — **Mains Type:** MIAN LUGS ONLY

CKT	Description	Trip	Poles	A	A	B	B	C	C	Poles	Trip	Description	CKT
1	RCPT - MECHANICAL 126	20 A	1	900 VA	606 VA					1	15 A	UNIT HEATER 'UH-1'	2
3	RCPT - RECEIVING 125	20 A	1			1080 VA	1508 VA			2	20 A	UNIT HEATER 'UH-2'	4
5	RCPT - EAST TOILETS	20 A	1					1080 VA	1508 VA				6
7	RCPT - WEST TOILETS	20 A	1	900 VA	1500 VA					2	30 A	DRYER RECEIVING 125	8
9	RCPT - OPEN OFFICE 110	20 A	1			540 VA	1500 VA						10
11	RCPT - OPEN OFFICE 110	20 A	1					1080 VA	180 VA	1	20 A	WASHER	12
13	RCPT - OFFICE 108/107	20 A	1	1260 VA	1000 VA					1	20 A	DATA RACK	14
15	RCPT - OFFICE 106	20 A	1			1260 VA	528 VA			1	15 A	EF-1	16
17	RCPT - OFFICE105	20 A	1					1080 VA	528 VA	1	15 A	EF-2	18
19	RCPT - RECEPTION 104	20 A	1	1080 VA	180 VA					1	15 A	RCPT - OFFICE...	20
21	LTG - RECEIVING AND...	20 A	1			1773 VA	180 VA			1	15 A	RCPT - OFFICE MICROWAVE	22
23	LTG - SITE AND EXTERIOR...	20 A	1					481 VA	180 VA	1	15 A	RCPT - PANTRY...	24
25	LTG - SITE AND EXTERIOR...	20 A	1	372 VA	180 VA					1	15 A	RCPT - PANTRY...	26
27	LTG - SITE AND EXTERIOR...	20 A	1			248 VA	180 VA			1	15 A	RCPT - PANTRY...	28
29	SIGNAGE - EXTERIOR	20 A	1					500 VA	180 VA	1	15 A	RCPT - PANTRY...	30
31	SIGNAGE - EXTERIOR	20 A	1	500 VA	180 VA					1	15 A	RCPT - OFFICE PRINTER	32
33	SPARE	20 A	1			0 VA	--			1	--	SPACE	34
35	SPARE	20 A	1					0 VA	--	1	--	SPACE	36
37	SPARE	20 A	1	0 VA	--					1	--	SPACE	38
39	SPARE	20 A	1			0 VA	--			1	--	SPACE	40
41	SPARE	20 A	1					0 VA	--	1	--	SPACE	42

Load Classification	Connected Load	Demand Factor	Demand Load
Lighting	1453 VA	100.00%	1453 VA
Receptacle	12700 VA	89.37%	11350 VA
Motor	2056 VA	100.00%	2056 VA
Other	8034 VA	100.00%	8034 VA

Panel Totals	
Total Connected Load:	24208 VA
Total Demand Load:	22859 VA
Total Connected Current:	67 A
Total Demand Current:	63 A

NO.	REVISION DESCRIPTION	BY	DATE

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PROJECT:
NILES FACILITY
THE SALVATION ARMY
1707 MILLER DRIVE
NILES, MI 49120

SHEET TITLE:
ONE-LINE DIAGRAM & DETAILS

MODELED BY: MW
DESIGNED BY: KM
PM REVIEW: AP
QA/QC REVIEW: KM
DATE: 07/31/2023
SEAL: STATE OF MICHIGAN — KEITH MARTINEZ ENGINEER No. 6201065240 — LICENSED PROFESSIONAL ENGINEER
SIGNATURE:
7/31/2023
DATE:

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23100151
SHEET NO.
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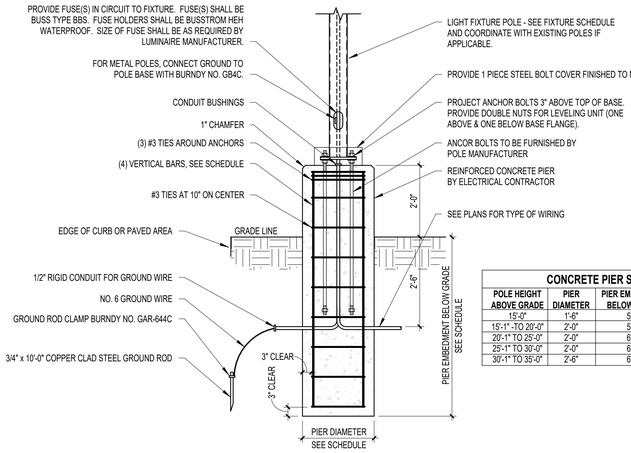


*** VERIFY BASE SIZE WITH MANUFACTURER/SUPPLIER TO ACCOMMODATE POLE FIXTURE(S) LOADING PER IES RECOMMENDATIONS.

2 **LIGHT FIXTURE POLE INSTALLATION DETAIL**
SCALE: NO SCALE

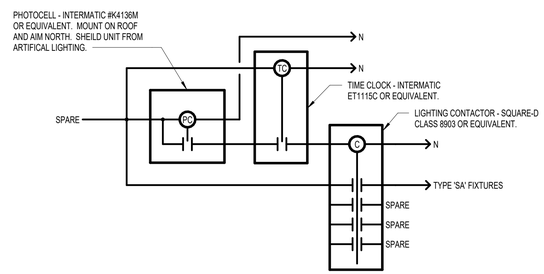
CONCRETE PIER SCHEDULE

POLE HEIGHT ABOVE GRADE	PIER DIAMETER	PIER EMBEDMENT BELOW GRADE	VERTICAL PIER REINFORCEMENT
15'-0"	1'-6"	5'-0"	(4) #4
15'-1" TO 20'-0"	2'-0"	5'-0"	(4) #4
20'-1" TO 25'-0"	2'-0"	6'-0"	(4) #4
25'-1" TO 30'-0"	2'-0"	6'-6"	(4) #4
30'-1" TO 35'-0"	2'-6"	6'-6"	(4) #5

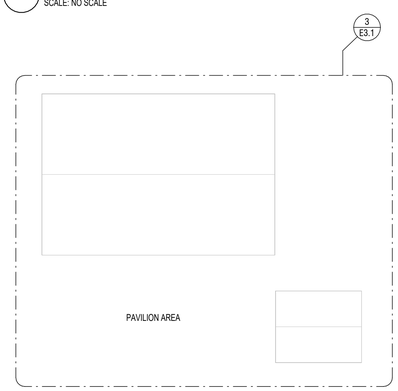
LIGHT FIXTURE SCHEDULE

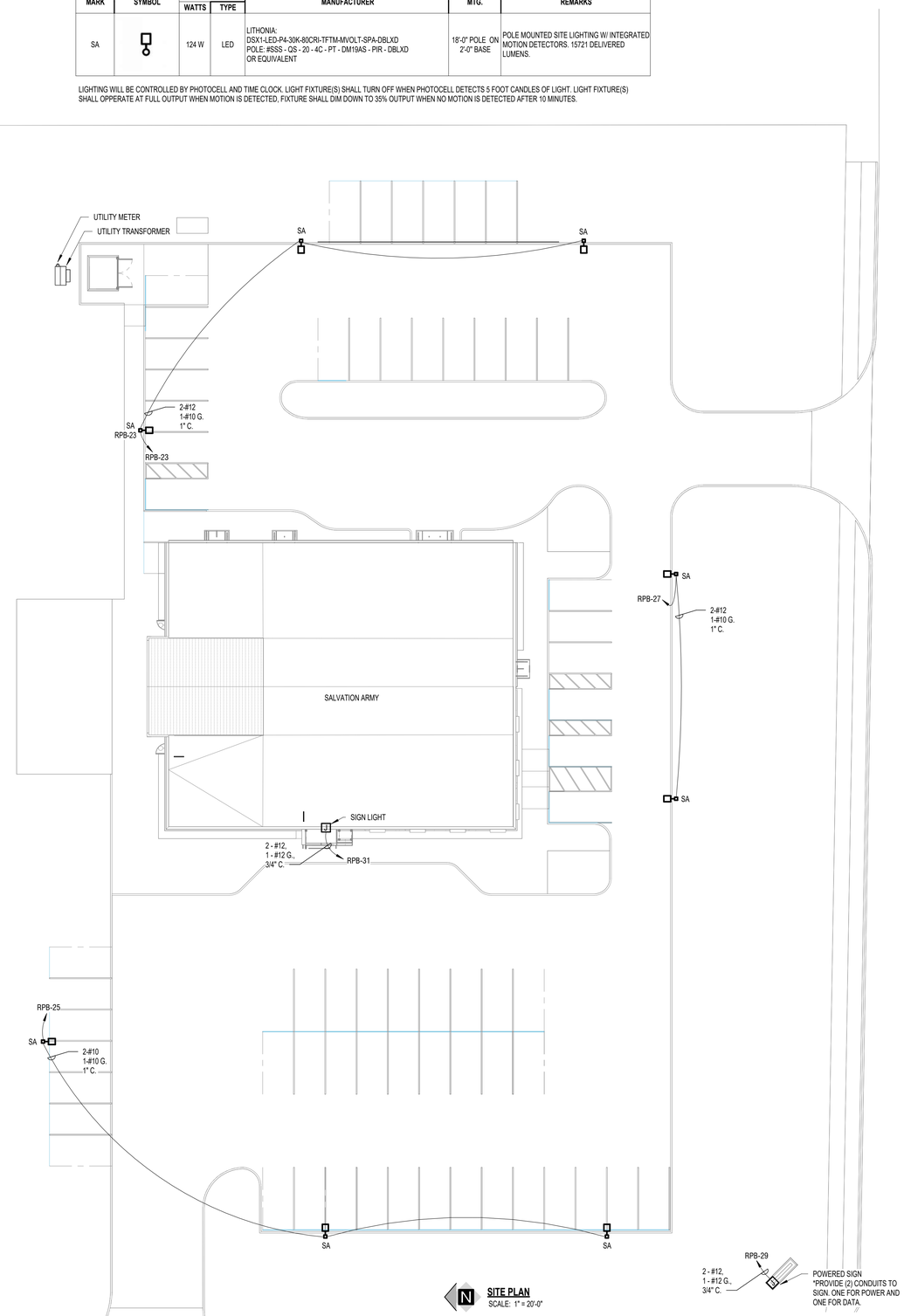
MARK	SYMBOL	LAMPS WATTS	LAMPS TYPE	MANUFACTURER	MTG.	REMARKS
SA		124 W	LED	LITHONIA: DSX1-LED-P4-30K-80CRI-TFTM-MVOLT-SPA-DBLXD POLE: #SSS - QS - 20 - 4C - PT - DM19AS - PIR - DBLXD OR EQUIVALENT	18'-0" POLE ON 2'-0" BASE	POLE MOUNTED SITE LIGHTING W/ INTEGRATED MOTION DETECTORS. 15721 DELIVERED LUMENS.

LIGHTING WILL BE CONTROLLED BY PHOTOCELL AND TIME CLOCK. LIGHT FIXTURE(S) SHALL TURN OFF WHEN PHOTOCELL DETECTS 5 FOOT CANDLES OF LIGHT. LIGHT FIXTURE(S) SHALL OPPERATE AT FULL OUTPUT WHEN MOTION IS DETECTED, FIXTURE SHALL DIM DOWN TO 35% OUTPUT WHEN NO MOTION IS DETECTED AFTER 10 MINUTES.



3 **EXTERIOR LIGHTING CONTROL DETAIL**
SCALE: NO SCALE





N **SITE PLAN**
SCALE: 1" = 20'-0"

NO.	REVISION DESCRIPTION	BY	DATE

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PROJECT:
NILES FACILITY
THE SALVATION ARMY
1707 MILLER DRIVE
NILES, MI 49120

SHEET TITLE:
ELECTRICAL SITE PLAN

MODELED BY: MW
DESIGNED BY: KM
PM REVIEW: AP
QA/QC REVIEW: KM
DATE: 07/31/2023
SEAL:
STATE OF MICHIGAN
KEITH MARTINEZ
ENGINEER
No. 6201065240
LICENSED PROFESSIONAL ENGINEER
SIGNATURE:
DATE: 7/31/2023

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SCALE:
UNLESS NOTED OTHERWISE

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