

CULTIO LLC

GROW FACILITY

Leslie, Michigan

General Notes

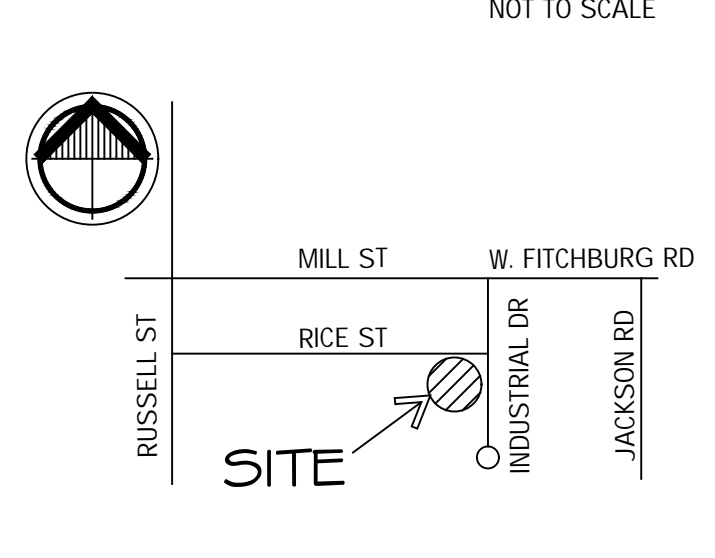
- THESE DRAWINGS HAVE BEEN PREPARED TO MEET GENERALLY ACCEPTED PROFESSIONAL STANDARDS OF REASONABLE CARE, REPRESENT MINIMUM CODE COMPLIANCE, AND NEITHER IMPLY GUARANTEE NOR WARRANTY OF SERVICES.
- CONTRACTORS SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS, IF INCLUDED, AND THEY SHALL NOTIFY THE ARCHITECT OF ANY INCONSISTENCIES, ERRORS, OR CONFLICTS FOR CLARIFICATION.
- SHOULD THERE BE ANY ERRORS, INCONSISTENCIES, OR CONFLICTS WHICH HAVE NOT BEEN RESOLVED BY SUPPLEMENTAL INSTRUCTIONS PRIOR TO THE BID DUE DATE, THEN THE MORE STRINGENT REQUIREMENTS SHALL BE UTILIZED BY THE CONTRACTOR AS PART OF THE BASE BID AND SHALL NOT BECOME A BASIS OF CHANGE ORDERS OR CLAIMS FOR ADDITIONAL COMPENSATION.
- ANY MATERIAL OR LABOR THAT IS NEITHER SHOWN NOR SPECIFIED BUT WHICH IS INHERENTLY NECESSARY TO COMPLETE THE WORK OR TO COMPLY WITH CODE SHALL BE PERFORMED WITHOUT ADDITIONAL COST TO THE ARCHITECT OR OWNER.
- THE CONTRACTOR SHALL NOT PROCEED WITH WORK THAT IS INCONSISTENT WITH OR CONFLICTS WITH THE CONSTRUCTION DOCUMENTS AND SHALL NOTIFY THE ARCHITECT FOR CLARIFICATION.
- SOME UNKNOWN WORK AREA CONDITIONS MAY EXIST. THE CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH THE WORK EXTENTS AND VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS.
- CONTRACTORS ARE RESPONSIBLE FOR COMPLETION OF WORK IN ACCORDANCE WITH APPLICABLE ORDINANCES, LAWS, CODES AND RULES OR REGULATIONS BEARING ON THE WORK AND SHALL EXECUTE THE WORK IN COMPLIANCE WITH LOCAL AUTHORITIES HAVING JURISDICTION AS PART OF THE BASE CONTRACT WITHOUT INCREASE IN COST TO ARCHITECT OR OWNER.
- EACH CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS, PAYMENT OF ALL FEES, LABOR, EQUIPMENT, ETC. AS MAY BE REQUIRED TO COMPLETE THEIR RESPECTIVE WORK. CONTRACTORS SHALL FORWARD TO THE ARCHITECT A COPY OF ALL APPROVED PERMITS AND COMMENTS OF PLAN EXAMINERS WITHIN 48 HOURS OF RECEIPT WITHOUT COST TO THE ARCHITECT.
- ALL CONTRACTORS SHALL OBTAIN 'ALL RISK' INSURANCE, ALL CUSTOMARY STATUTORY INSURANCE, COMPREHENSIVE LIABILITY, ETC. WITH THE ARCHITECT AND OWNER NAMED AS INSURED PARTIES TO THE 'ALL RISK' INSURANCE POLICY.
- WHERE APPLICABLE TO THEIR WORK, CONTRACTORS SHALL FIELD VERIFY ALL VERTICAL DIMENSIONS AND FLOOR LEVEL IN ORDER TO ASSURE ALIGNMENT AND CLEARANCES WITH EXISTING. NOTIFY ARCHITECT OF DISCREPANCIES.
- MECHANICAL, PLUMBING, & ELECTRICAL CONTRACTORS SHALL COORDINATE THEIR WORK WITH OTHER TRADES AS NECESSARY TO ASSURE MINIMUM REQUIREMENTS FOR THEIR SCOPE OF WORK, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - STRUCTURAL LOADINGS
 - POWER REQUIREMENTS
 - CLEARANCE PER CODE & MAINTENANCE
 WHERE THERE IS POTENTIAL OF CONFLICT DUE TO SPACE LIMITATIONS, THE CONTRACTOR SHALL THEN CONVENE COORDINATION MEETINGS WITH THE SUBCONTRACTORS AND HAVE SCALED COORDINATION DRAWINGS PREPARED AS NECESSARY AT NO ADDITIONAL COST TO ARCHITECT OR OWNER.
- MECHANICAL, PLUMBING, & ELECTRICAL CONTRACTORS ARE FULLY RESPONSIBLE FOR THEIR OWN WORK IN TERMS OF, BUT NOT LIMITED TO THE FOLLOWING: ALL CODES, DIMENSIONS, COORDINATION WITH OTHER TRADES AND ALL APPLICABLE MUNICIPAL AND OTHER INSPECTIONS AND APPROVALS BY AUTHORITIES HAVING JURISDICTION.
- THE CONTRACTOR SHALL KEEP AN 'AS-BUILT' RECORD DRAWING AND SPECIFICATION SET MAINTAINED ON SITE AND MARK ALL DEVIATIONS CLEARLY IN RED PENCIL. RETURN TO THE ARCHITECT UPON PROJECT CLOSEOUT.
- ALL CONTRACTORS SHALL BE RESPONSIBLE FOR IMPLEMENTING NECESSARY MEASURES TO PROTECT THE PUBLIC FROM INJURY AND ADJACENT PROPERTY FROM DAMAGE DURING CONSTRUCTION.
- ALL CONTRACTORS SHALL BE RESPONSIBLE FOR PROJECT SECURITY FROM THE COMMENCEMENT OF WORK THROUGH OWNER ACCEPTANCE OF COMPLETION.
- NO SUBSTITUTION OF MATERIALS OR EQUIPMENT WILL BE ACCEPTED UNLESS WRITTEN REQUEST FOR APPROVAL HAS BEEN SUBMITTED TO THE ARCHITECT FOR REVIEW WITH DETAILED DOCUMENTATION WHY THE SPECIFIED MATERIAL OR EQUIPMENT CANNOT BE PROVIDED, AND THE CONTRACTOR HAS RECEIVED WRITTEN APPROVAL FROM THE ARCHITECT.
- SUB-CONTRACTOR COMMUNICATION TO THE ARCHITECT SHALL BE THROUGH THE GENERAL CONTRACTOR. ALL COMMUNICATION OUTSIDE OF THIS WILL BE RETURNED WITHOUT REVIEW OR DISCARDED AT THE ARCHITECT'S DISCRETION AND THE GENERAL CONTRACTOR NOTIFIED.
- SUBMITTALS TO THE ARCHITECT NOT REQUIRED BY THE CONTRACT DOCUMENTS TO COMPLY WITH CODE OR TO FACILITATE COMPLETION WITH DOCUMENT INTENTIONS MAY NOT BE REVIEWED AND MAY BE DISCARDED.
- EACH CONTRACTOR SHALL BE RESPONSIBLE FOR END-OF-DAY MATERIAL SECUREMENT, CLEAN UP AND WASTE DISPOSAL OF THEIR WORK ACTIVITIES AT NO ADDITIONAL COST TO THE GENERAL CONTRACTOR, ARCHITECT OR OWNER.
- ALL SUBCONTRACTORS SHALL BE COMPLIANT AND CURRENT ON ALL OSHA REQUIREMENTS, TRAINING, AND DOCUMENTATION. VISIT WWW.OSHA.GOV FOR ADDITIONAL INFORMATION.

Drawing Notes

- ALL CONSTRUCTION INDICATED SHALL BE NEW UNLESS NOTED OTHERWISE.
- DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN OVER SCALE.
- DIMENSIONS ARE TO FACE OF ROUGH FRAMING, CONCRETE OR TO NOMINAL MASONRY FACES UNLESS NOTED OTHERWISE.
- ALL ANGLES ARE MEASURED IN INCREMENTS OF 45 DEGREES, UNLESS NOTED OTHERWISE.
- MAIN FLOOR ELEVATION IS NOTED AS 100'-0" AND USED AS THE BASIS FOR ELEVATIONS, PLANS, AND SECTIONS. COORDINATE TO CIVIL ENGINEER'S U.S.G.S.
- WHERE SPECIFICATIONS ARE INCLUDED, THEY ARE TO BE READ AS COMPLEMENTARY TO THE DRAWINGS.

Site Location

NOT TO SCALE



Bldg. Summary

2015 MICHIGAN BUILDING CODE
 2017 MICHIGAN PART 8, ELECTRICAL CODE
 2018 MICHIGAN PLUMBING CODE
 2015 MICHIGAN MECHANICAL CODE
 2017 NEC
 ICC A117.1 - 2009 BARRIER FREE CODE
 2015 MICHIGAN UNIFORM ENERGY CODE
 2015 MICHIGAN REHAB CODE

USE GROUP: B/F-1 OFFICE/GROW FACILITY
 CONSTRUCTION TYPE: III-B NON-SPRINKLED
 BUILDING AREA: 11,695 SQ FT EXISTING 1 STORY
 OFFICE: 1,148 SQ FT @ 1/100 = 12 OCCUPANTS
 GROW: 10,485 SQ FT @ 1/100 = 106 OCCUPANTS

REFER TO CODE COMPLIANCE SHEET FOR ADDITIONAL DETAILED CODE REVIEW INFORMATION

Sheet Index

MARK	DESCRIPTION	MARK	DESCRIPTION	MARK	DESCRIPTION
COVER	DRAWING INDEX, SITE MAP, BLDG. SUMMARY, GENERAL NOTES	P1	DOMESTIC AND SANITARY PLANS		
CODE	GENERAL SPECIFICATIONS, BARRIER FREE DTLS.	P2	FERT PLUMBING PLANS		
C-201	EXISTING CONDITIONS AND DEMOLITION PLAN	M1	HVAC PLANS		
C-205	SITE PLAN	MP1	HVAC AND PLUMBING SPECS		
C-300	UTILITY, GRADING & S.E.S.C. PLAN	E1.00	ELECTRICAL LEGEND		
D-11	DEMOLITION PLAN AND NOTES	E4.01	ELECTRICAL ONE LINE		
A-11	MAIN FLOOR PLAN AND NOTES	E5.01	ELECTRICAL PLANS		
A-21	BUILDING ELEVATIONS, NOTES, AND DETAILS	E6.01	POWER PLAN		
A-31	DOOR SCHEDULE AND MISCELLANEOUS DETAILS	E7.01	ARC FLASH ONE-LINE		
A-41	INTERIOR ELEVATIONS, NOTES, AND DETAILS	E8.01	LOAD FLOW FLASH ANALYSIS ONE-LINE AND LOAD SCHEDULE		
A-51	BUILDING SECTIONS				
A-61	WALL SECTIONS AND DETAILS				
A-71	REFLECTED CEILING PLAN, NOTES, AND DETAILS				
FM-11	FINISH PLAN, NOTES, AND DETAILS				

Owner

Linfor East Holdings

510 Industrial Drive
 Leslie, MI 48864

Architect

NEWCO

Design Build LLC
 4131 Roger B. Chaffee Blvd
 Grand Rapids, MI 49548
 (616) 493-9360 Ofc.
 (616) 493-9364 Fax

Contractor

Civil



217 Grandville Ave SW 1 Suite 302
 Grand Rapids, MI 49503
 800.222.1868 | www.nederveld.com

Structural

DESIGN BUILD BY OTHERS

Mechanical



4950 Brooks Rd
 Fruitport, MI 49415

Plumbing



4950 Brooks Rd
 Fruitport, MI 49415

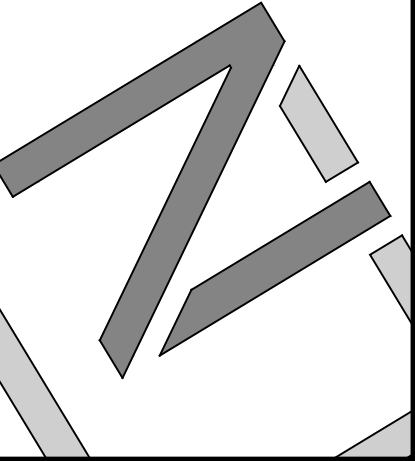
Electrical



4950 Brooks Rd
 Fruitport, MI 49415

Specialty

NEWCO
 Design Build LLC
 4131 Roger B. Chaffee Blvd.
 Grand Rapids, MI 49548
 (616) 493-9360 Tel.
 (616) 493-9364 Fax
 www.NewcoDB.com

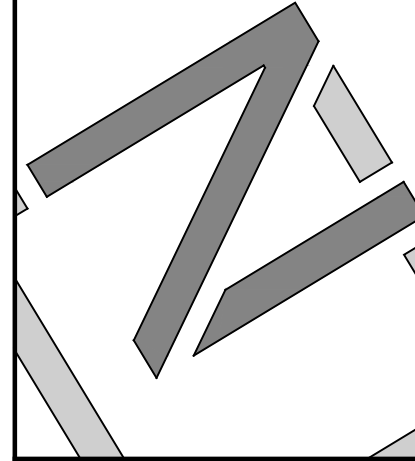


ARCHITECT: BRADFORD W. POTTER
 PROJECT No.: 30-00830

#	DATE	ISSUED FOR
09/06/22	PERMIT	
06/30/22	REVIEW AND PRICING	
05/20/22	REVISED LAYOUT	
05/03/22	PRELIM LAYOUT	

PROJECT NAME: **GROW FACILITY**
 LESLIE, MICHIGAN
 SHEET TITLE: **Title, Index, Code and General Notes**

SHEET No.: **COVER**



ARCHITECT: BRADFORD W. POTTER
PROJECT No: 30-00830

SEAL	DATE	ISSUED FOR

09/06/22	PERMIT		
06/30/22	REVIEW AND PRICING		
05/20/22	REVISED LAYOUT		
05/03/22	PRELIM LAYOUT		

PROJECT NAME: **GROW FACILITY**
LESLIE, MICHIGAN
SHEET TITLE: **General Barrier Free Code Compliance Details**
SHEET No: **CODE**

Barrier Free Notes:

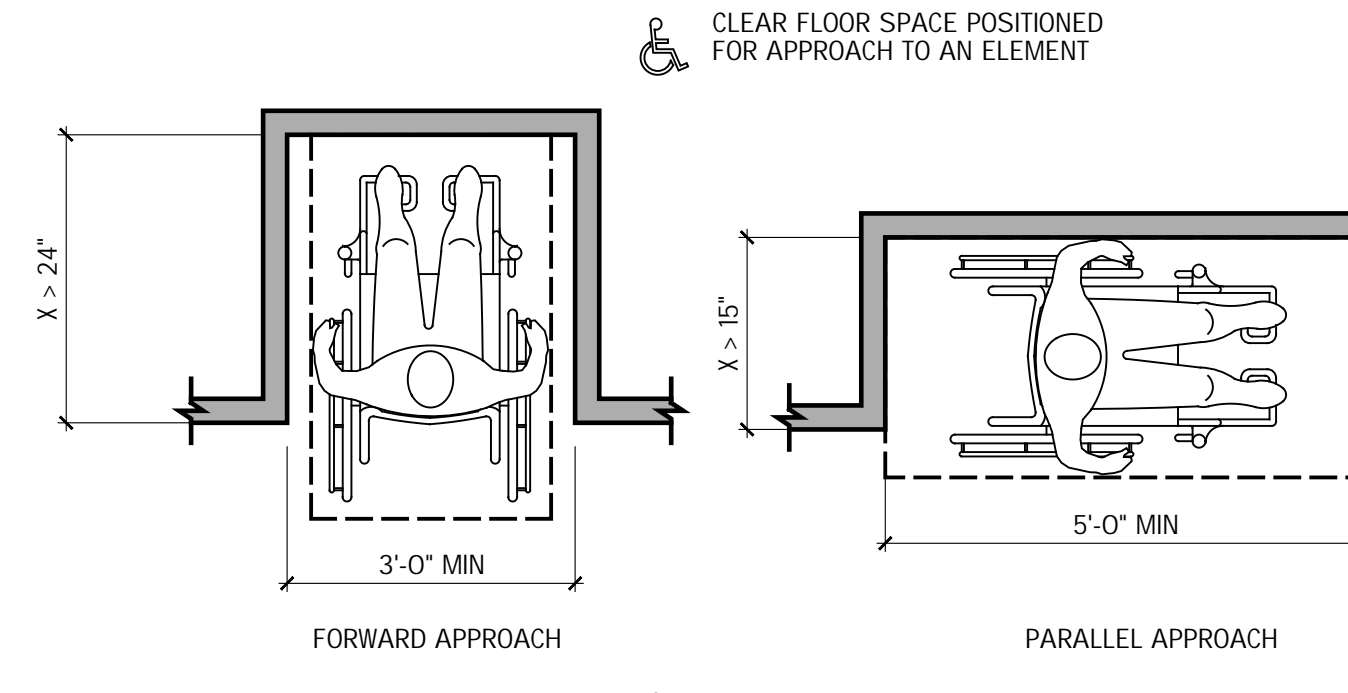
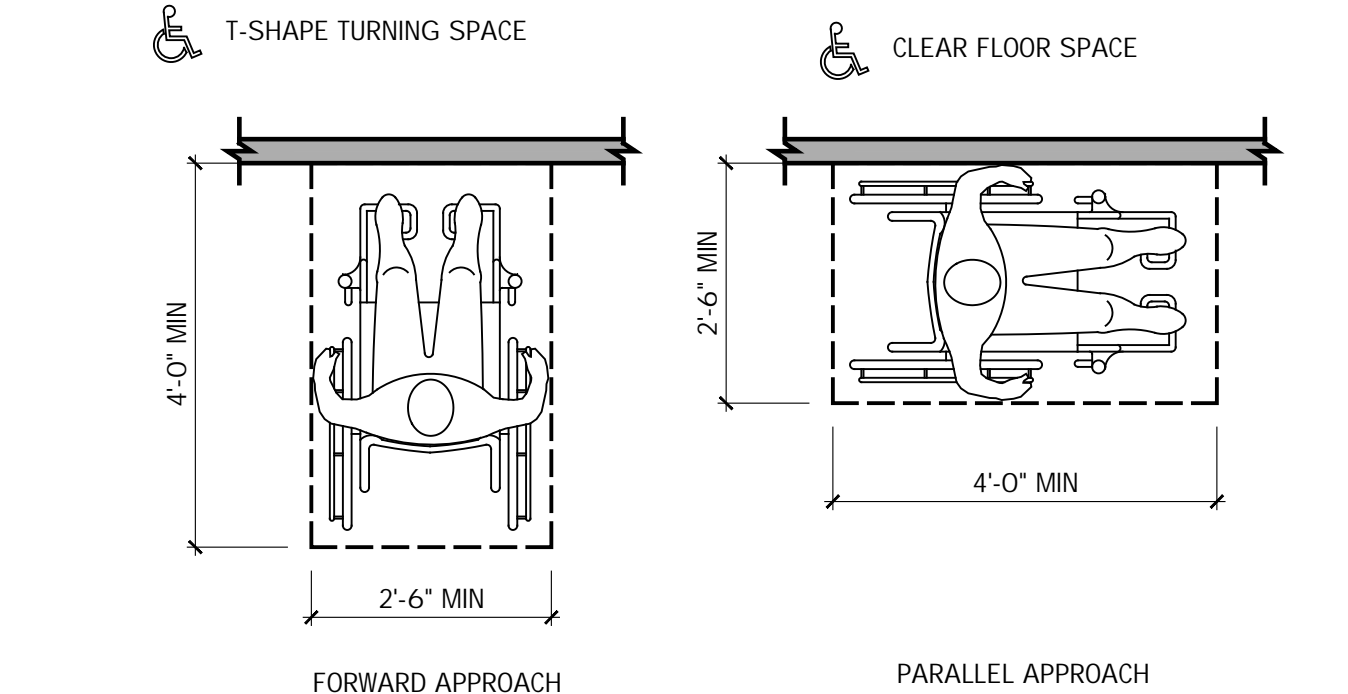
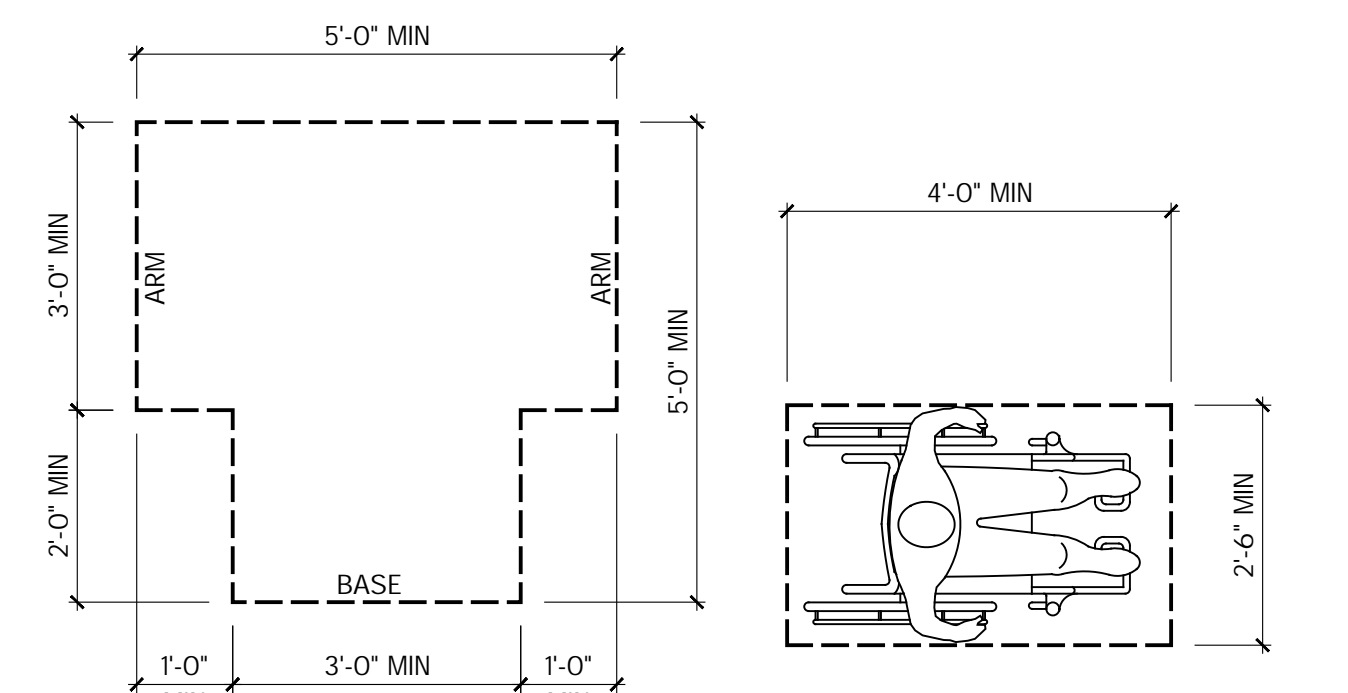
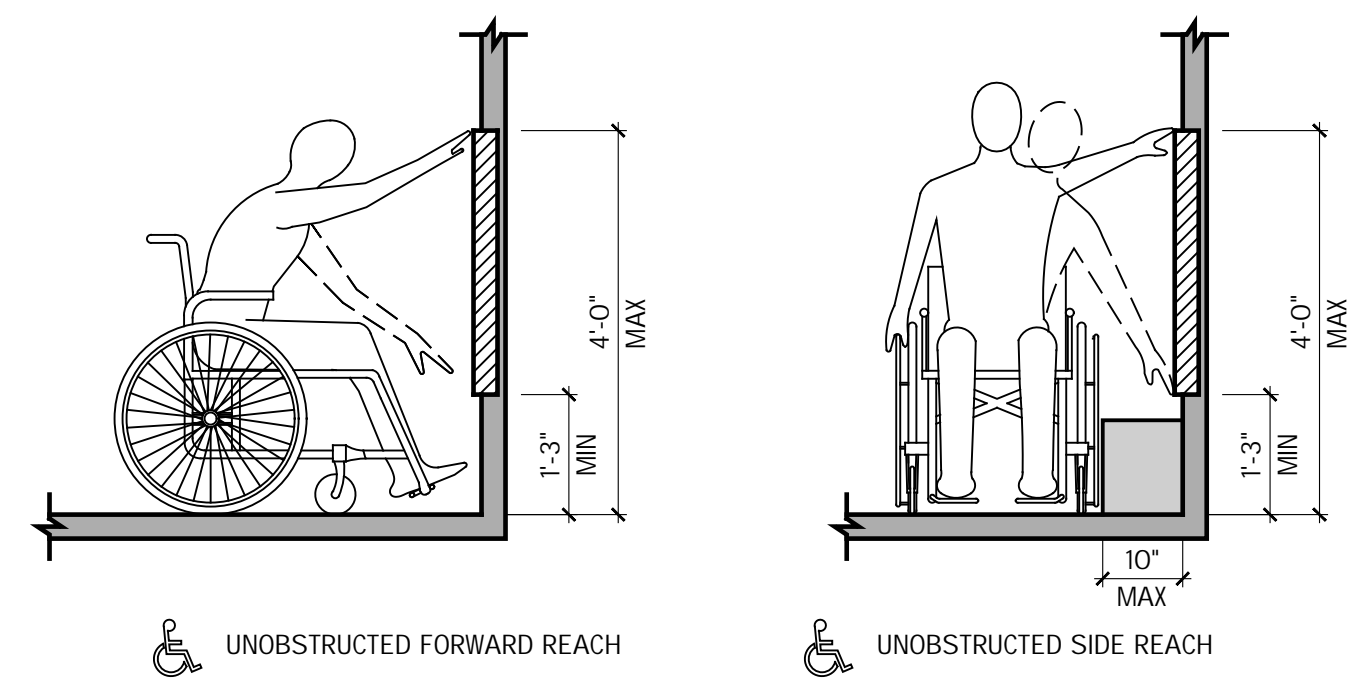
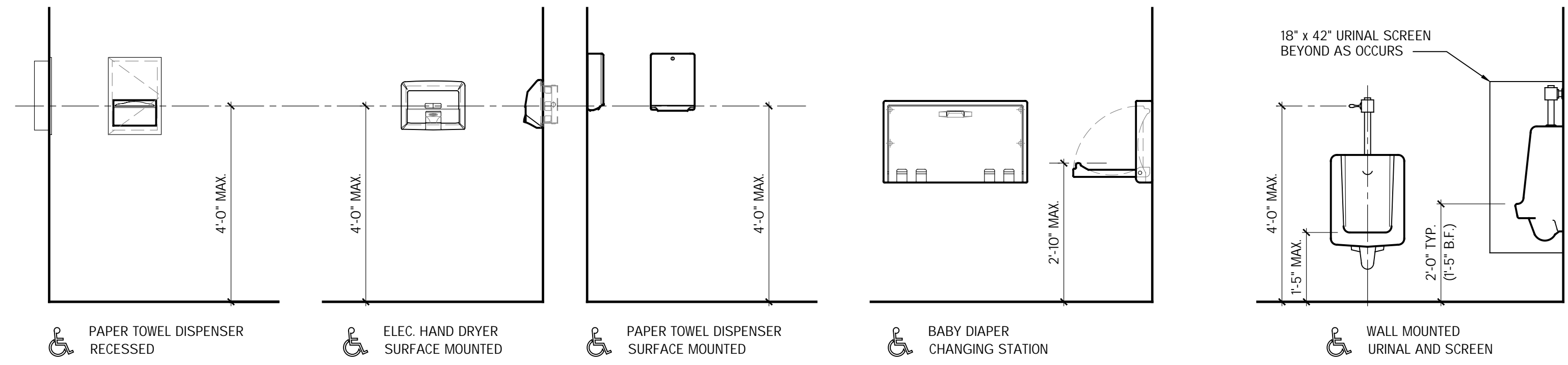
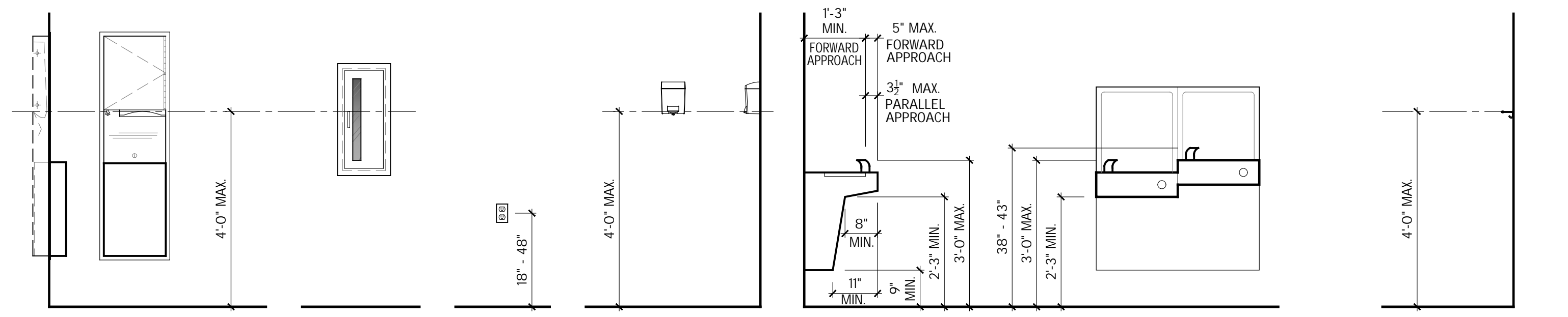
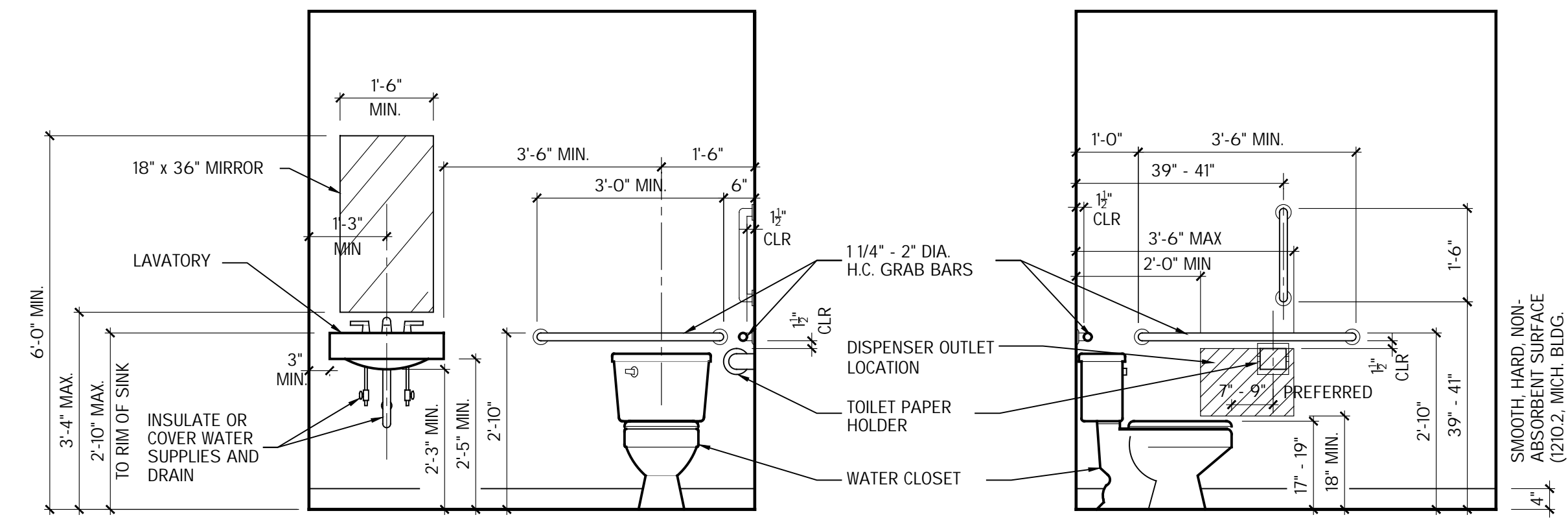
- BUILDINGS AND FACILITIES SHALL BE DESIGNED AND CONSTRUCTED TO BE ACCESSIBLE IN ACCORDANCE WITH THE MICHIGAN BUILDING CODE AND MICHIGAN BARRIER FREE CODE, LATEST ADOPTED EDITIONS. WHERE A CONFLICT EXISTS, THE LATEST ADOPTED ICC/ANSI A117.1 BARRIER FREE MANUAL GOVERNS.
- INDIVIDUAL EMPLOYEE WORK STATIONS ARE NOT REQUIRED TO COMPLY WITH THE ACCESSIBILITY REQUIREMENTS, BUT SHALL BE LOCATED ON AN ACCESSIBLE ROUTE.
- EXISTING BUILDINGS UNDERGOING A CHANGE IN USE GROUP, OCCUPANT LOAD, OR ALTERATION IS REQUIRED TO BE MADE ACCESSIBLE.
- EXISTING BUILDINGS WITH CHANGE AFFECTING LESS THAN 50% OF THE EXISTING FLOOR AREA REQUIRE BRINGING TO ACCESSIBILITY THE AREA AFFECTED AND THE ROUTE TO THE AREA, INCLUDING THE NEAREST ENTRANCE - PUBLIC ACT 1 OF 1966, SECTION 2 (2)(a).
- EXISTING BUILDINGS WITH CHANGE AFFECTING 50% OR GREATER OF THE EXISTING FLOOR AREA REQUIRE BRINGING TO ACCESSIBILITY THE ENTIRE BUILDING AREA USED BY THE PUBLIC - PUBLIC ACT 1 OF 1966, SECTION 2 (2)(b).

Arch'l. General Notes:

- ALL DIMENSIONS INDICATED ON DRAWINGS SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
- DELIVER, HANDLE, AND STORE MATERIALS TO PROTECT FROM DAMAGE AND WEATHER.
- PROVIDE ALL MATERIALS, ACCESSORIES, BRIDGING, BRACING, AND BLOCKING AS REQUIRED FOR WORK.
- CONTRACTOR TO FIELD VERIFY ALL EXISTING EQUIPMENT AND STRUCTURAL CONDITIONS.
- COORDINATE WITH OTHER TRADES; VERIFY PLUMBING, MECHANICAL, ELECTRICAL, COMMUNICATIONS AND SECURITY SYSTEMS PRIOR TO INSTALLATION. NOTIFY ARCHITECT PROMPTLY IF ANY DISCREPANCIES OR CONFLICTS ARE DISCOVERED.
- EXAMINE CONSTRUCTION ROUGH-INS FOR MECHANICAL, ELECTRICAL AND COMMUNICATIONS SYSTEMS TO VERIFY ACCEPTABLE CONNECTION CONDITIONS AND ALL CLEARANCES PRIOR TO INSTALLATION.
- GENERAL CONTRACTOR IS TO VERIFY LOCATION OF ALL EMERGENCY AND EXIT LIGHTS WITH THE BUILDING OFFICIAL PRIOR TO INSTALLATION.
- ELECTRICAL WORK IS TO FOLLOW THE MICHIGAN BUILDING CODE AND NATIONAL ELECTRIC CODE (LATEST ADOPTED EDITIONS).

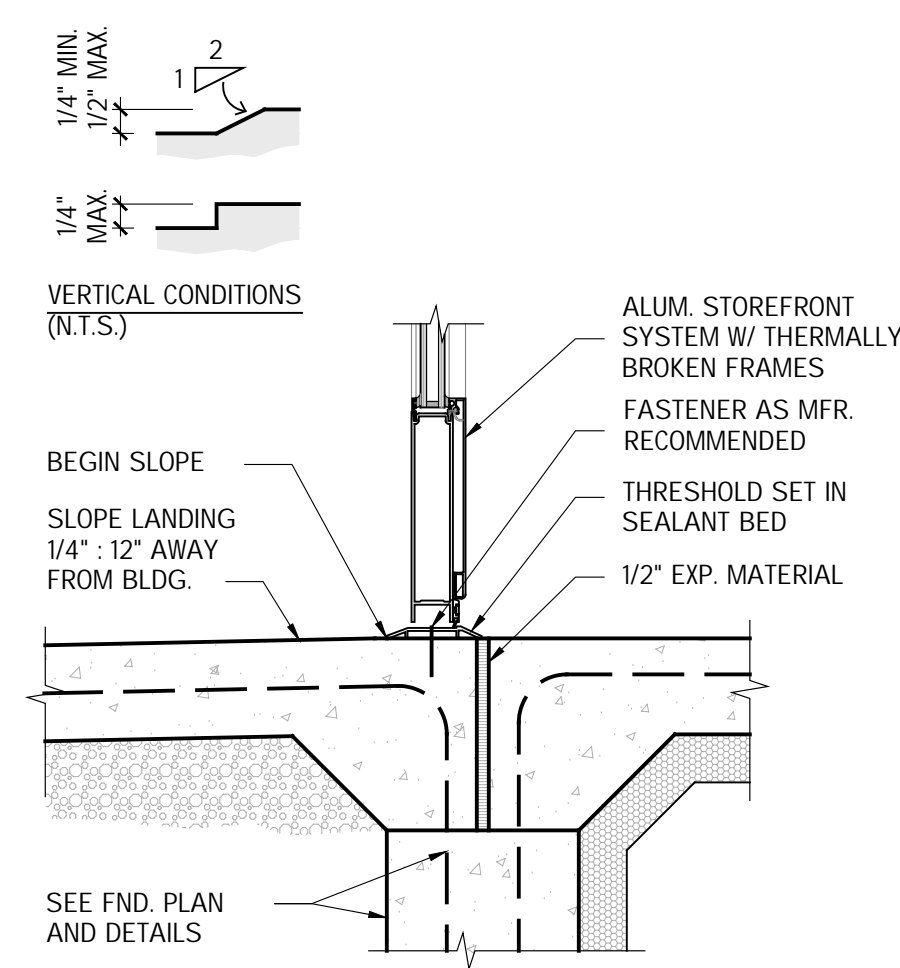
Code Compliance Notes:

- PROVIDE PORTABLE FIRE EXTINGUISHERS, TYPE A-B-C, OF THE CAPACITY AND TRAVEL DISTANCES REQUIRED BY THE I.F.C. (LATEST EDITION), TO BE FIELD COORDINATED WITH THE FIRE MARSHAL AND TENANT BUILD-IN.
- PROVIDE BARRIER FREE SIGNAGE AT TOILET ROOMS, STAIR LANDINGS, AND AREAS OF REFUGE, COMPLYING WITH THE ACCEPTED MICHIGAN BARRIER FREE SYMBOL OF COMPLIANCE, TEXT, AND BRAILLE. REFER TO DETAIL THIS SHEET FOR MOUNTING LOCATION.
- ALL SIGNAGE PROVIDING EMERGENCY INFORMATION, ROOM IDENTIFICATION AND CIRCULATION SHALL MEET BARRIER FREE DESIGN REQUIREMENTS.
- WHERE FASTENING IS NOT NOTED ON STRUCTURAL DRAWINGS, USE FASTENING SCHEDULE PER TABLE 2304.10.1 OF THE MICHIGAN BUILDING CODE (LATEST EDITION).

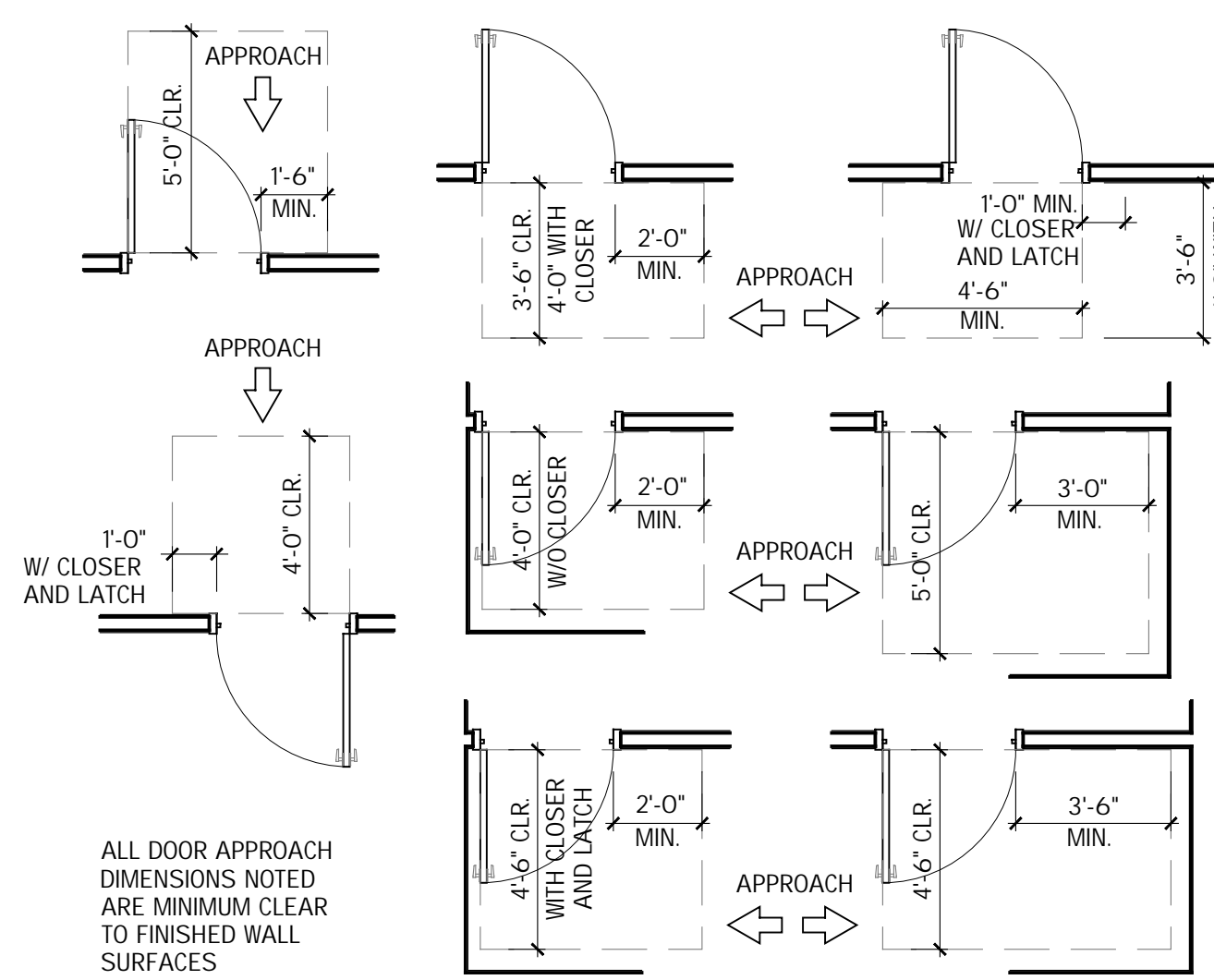


Typical Barrier Free Requirements
SCALE: 1/2" = 1'-0"
2009 ANSI A-117.1 BARRIER FREE CODE

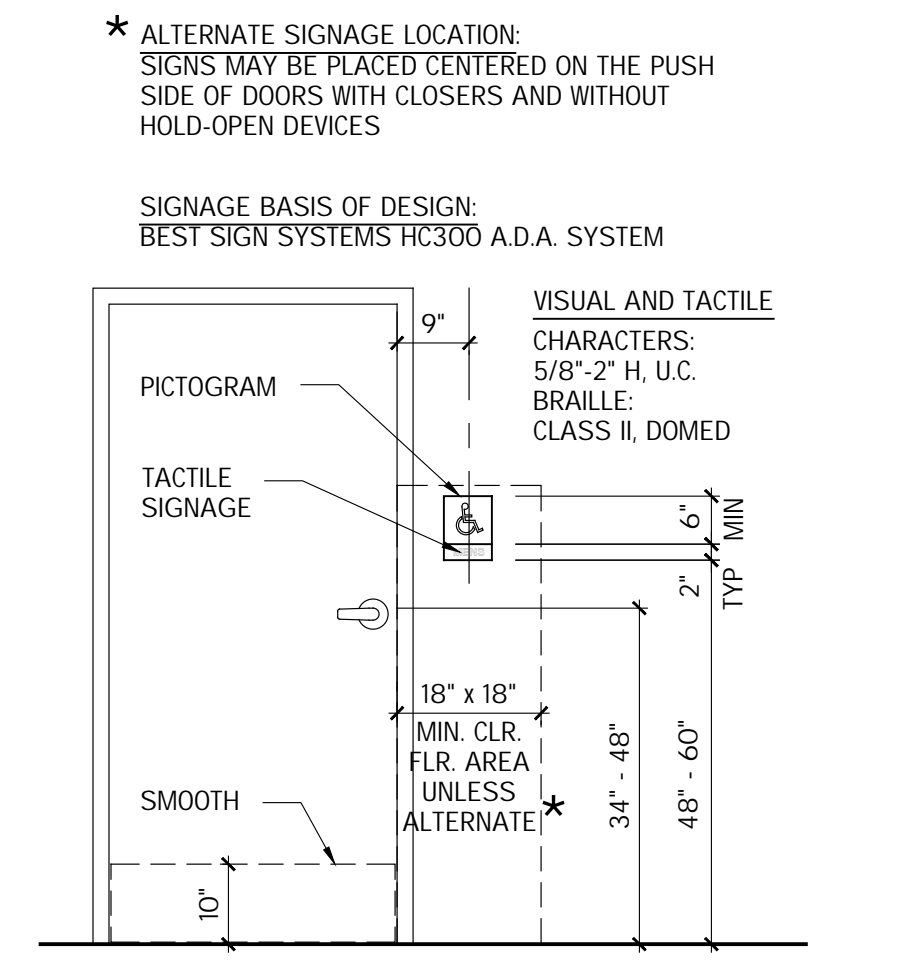
ALL DIMENSIONS NOTED ARE MINIMUM CLEAR TO FINISHED WALL SURFACES. DIMENSIONS THAT ARE NOT STATED AS "MAXIMUM" OR "MINIMUM" ARE ABSOLUTE. ALL DIMENSIONS ARE SUBJECT TO CONVENTIONAL INDUSTRY CONSTRUCTION TOLERANCES.



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



B.F. Door Access Dtl.
SCALE: 1/4" = 1'-0"
2009 ANSI A-117.1 BARRIER FREE CODE



B.F. Door Sign and Hdwe. Detail
SCALE: 1/2" = 1'-0"
2009 ANSI A-117.1 BARRIER FREE CODE

REMOVAL / DEMOLITION NOTES

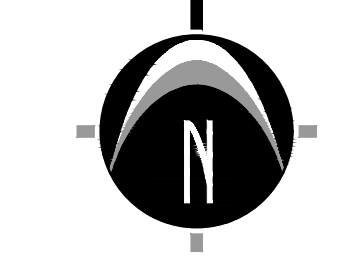
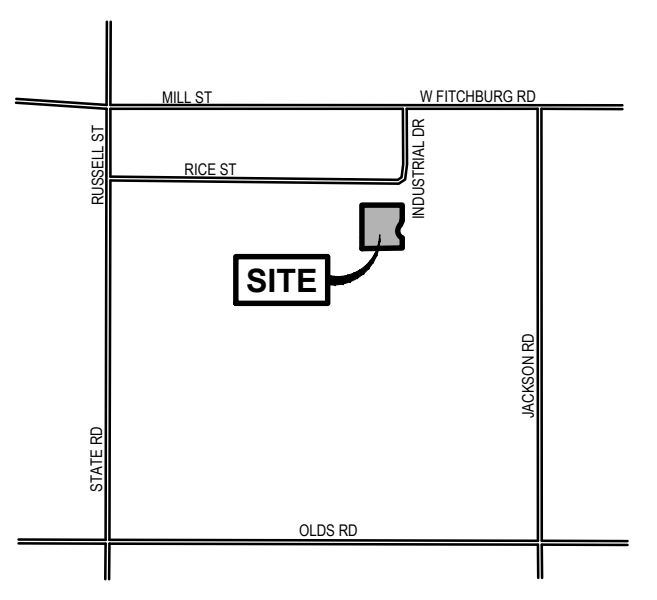
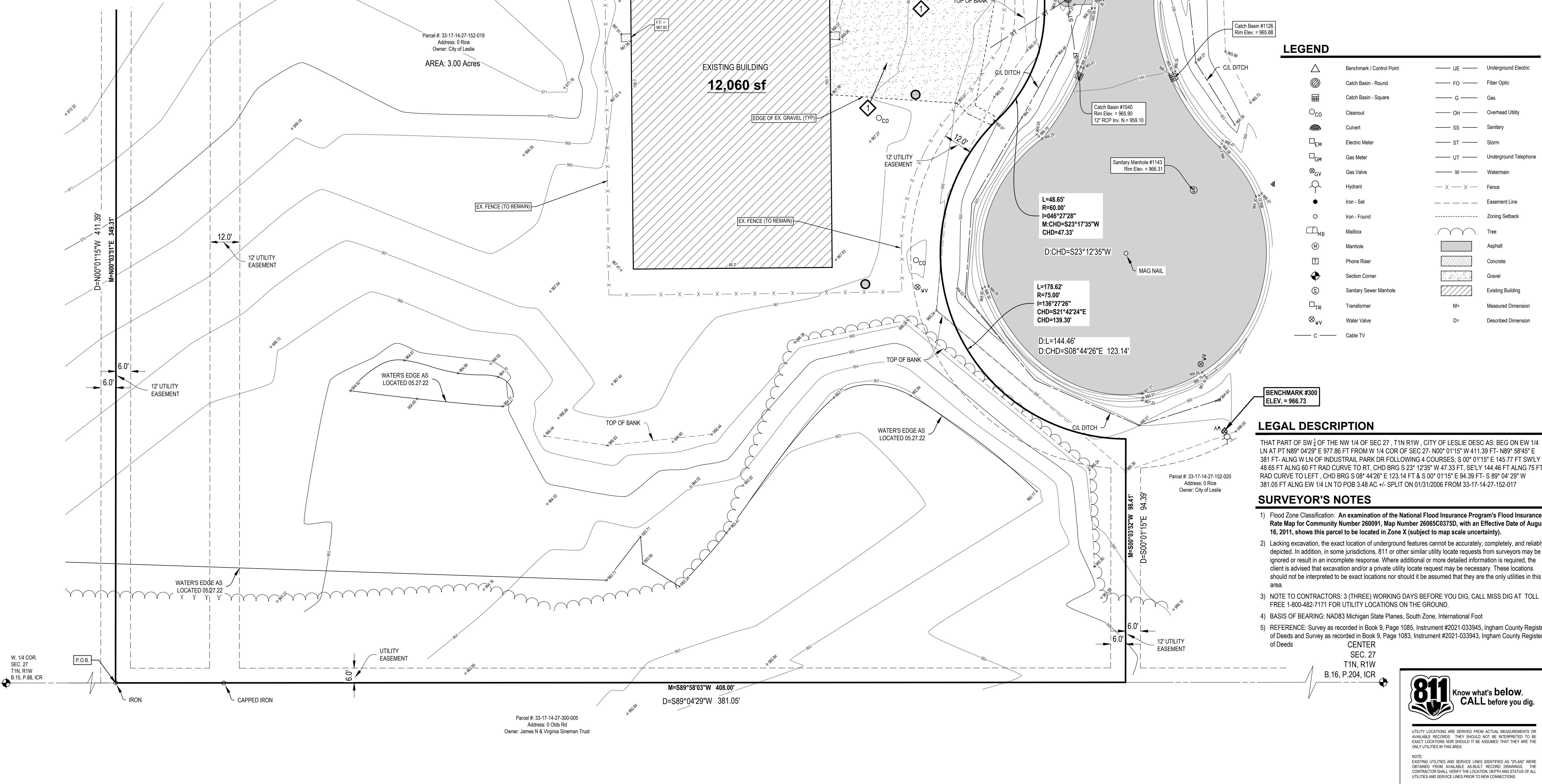
- 1) THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES AT LEAST THREE WEEKS PRIOR TO THE BEGINNING OF CONSTRUCTION OPERATIONS... 2) ALL EXISTING UTILITY INFORMATION SHOWN IS TAKEN FROM EXISTING RECORDS... 3) BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE... 4) THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION WORK... 5) ALL EXISTING UTILITIES, SEWERS AND WATER LINES ARE TO REMAIN UNDISTURBED... 6) THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES REGARDING REMOVAL OF EXISTING POLES... 7) THE CONTRACTOR SHALL MAINTAIN EXISTING UTILITY SERVICE TO ALL ADJOINING PROPERTIES... 8) ALL DEBRIS SHALL BE REMOVED FROM THE SITE... 9) THE CONTRACTOR SHALL LIMIT SAWCUT AND PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE REQUIRED... 10) ASPHALT AREAS SHOWN TO BE SAWCUT AND REMOVED FULL DEPTH ARE ACTUAL FACE OF PROPOSED CURBS... 11) ALL PAVEMENT REMOVAL AREAS SHALL BE FULL PAVEMENT CROSS-SECTION REMOVAL... 12) ALL TREES WITHIN THE GRADING LIMITS SHALL BE REMOVED UNLESS OTHERWISE NOTED.

REMOVAL / DEMOLITION NOTES

- 1) REMOVE/REPLACE EX. GRAVEL AS NECESSARY FOR FINAL ASPHALT LOCATIONS.
2) ADJUST EXISTING FENCING AS NECESSARY FOR PROPOSED DRAINAGE SWALE.

BENCHMARKS

BENCHMARK #300 ELEV. = 966.73 (NAVD83)
BENCHMARK #301 ELEV. = 965.96 (NAVD83)



LEGEND

Table with symbols and descriptions for various features: Benchmark / Control Point, Catch Basin, Cleanout, Culvert, Electric Meter, Gas Meter, Gas Valve, Hydrant, Iron - Set, Iron - Found, Mailbox, Manhole, Phone Riser, Section Corner, Sanitary Sewer Manhole, Transformer, Water Valve, Cable TV, Underground Electric, Fiber Optic, Gas, Overhead Utility, Sanitary, Storm, Underground Telephone, Watermain, Fence, Easement Line, Zoning setback, Tree, Asphalt, Concrete, Gravel, Existing Building, Measured Dimension, Described Dimension.

LEGAL DESCRIPTION

THAT PART OF SW 1/4 OF THE NW 1/4 OF SEC 27, T1N R1W, CITY OF LESLIE DESC AS: BEG ON EW 1/4 LN AT PT N89° 04'29" E 97.76 FT FROM W 1/4 COR OF SEC 27...

SURVEYOR'S NOTES

- 1) Flood Zone Classification: An examination of the National Flood Insurance Program's Flood Insurance Rate Map for Community Number 260091... 2) Lacking excavation, the exact location of underground features cannot be accurately, completely, and reliably depicted... 3) NOTE TO CONTRACTORS: 3 (THREE) WORKING DAYS BEFORE YOU DIG, CALL MISS DIG AT TOLL FREE 1-800-482-7171... 4) BASIS OF BEARING: NAD83 Michigan State Planes, South Zone, International Foot... 5) REFERENCE: Survey as recorded in Book 9, Page 1085, Instrument #2021-033945, Ingham County Register of Deeds...

811 Know what's below. CALL before you dig. UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

NEDERVELD
www.nederveld.com
800.222.1868
GRAND RAPIDS
217 Grandville Ave., Suite 302
Grand Rapids, MI 49503
Phone: 616.575.5190
ANN ARBOR
CHICAGO
COLUMBUS
HOLLAND
INDIANAPOLIS

PREPARED FOR:
For: NEWCO Design Build, LLC
Attention: Burton Cardwell
4131 Roger B Chaffee Memorial Dr SE
Grand Rapids, MI 49548
Telephone: (616) 493-9360

REVISIONS table with columns for Title, Drawn, Checked, Date.

Cultio, LLC
Parcel 3 Leslie Ind. Park
Existing Conditions and Demolition Plan
510 Industrial, Leslie, MI 49251
PART OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 27, T1N, R1W, CITY OF LESLIE, INGHAM COUNTY, MICHIGAN

STAMP:
STEVEN L WITTE
ENGINEER
No. 46769
Professional Engineer

PROJECT NO: 22500108
SHEET NO: C-201
SHEET: 1 OF 3



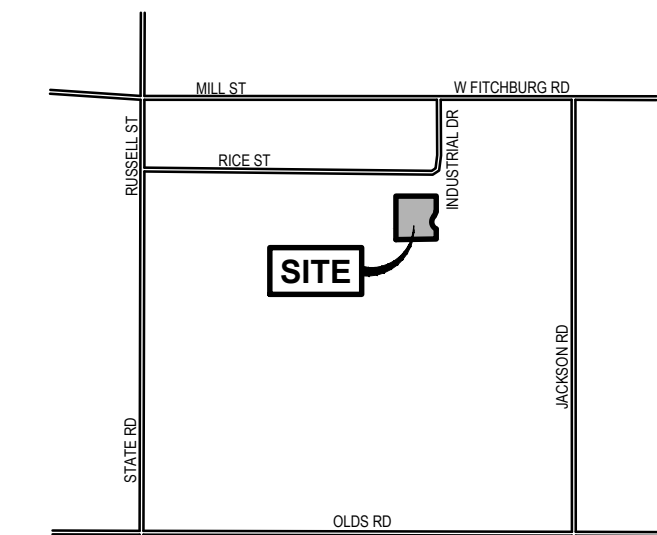
UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

NOTE: EXISTING UTILITIES AND SERVICE LINES IDENTIFIED AS "SPRAY" WERE DETERMINED FROM AVAILABLE AS-BUILT RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH AND STATUS OF ALL UTILITIES AND SERVICE LINES PRIOR TO NEW CONNECTIONS.

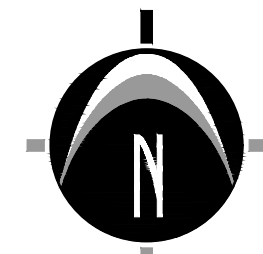
BENCHMARKS

BENCHMARK #300 ELEV. = 966.73 (NAVD88)
Dimple on North side of water valve, located at the cul-de-sac of Industrial Drive 22'-1" from back of curb.

BENCHMARK #301 ELEV. = 965.96 (NAVD88)
Dimple on North side of sanitary manhole, located on the East side of Industrial Drive 16'-1" from back of curb and 270'-1" South of Rice Street.



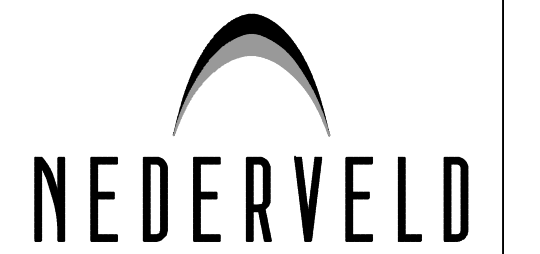
LOCATION MAP
NOT TO SCALE



0' 10' 20' 40'
SCALE: 1" = 20'

PROPERTY OWNER:

LINFOR EAST HOLDINGS
510 INDUSTRIAL DRIVE
LESLIE, MICHIGAN 48864



www.nederveld.com
800.222.1868
GRAND RAPIDS
217 Grandville Ave., Suite 302
Grand Rapids, MI 49503
Phone: 616.575.5190

ANN ARBOR
CHICAGO
COLUMBUS
HOLLAND
INDIANAPOLIS

PREPARED FOR:

For: NEWCO Design Build, LLC
Attention: Burton Cardwell

4131 Roger B Chaffee Memorial Dr SE
Grand Rapids, MI 49548
Telephone: (616) 493-9360

REVISIONS:

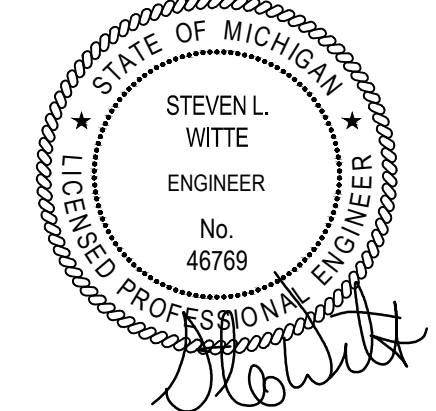
Title: Preliminary Plan	Drawn: SW	Checked: SW	Date: 06/17/22
Title: Site Plan	Drawn: SW	Checked: SW	Date: 07/01/22
Title: Site Plan	Drawn: SW	Checked: SW	Date: 07/15/22
Title: Per SESC Comments from ICDC	Drawn: SW	Checked: SW	Date: 08/18/22

**Cultio, LLC
Parcel 3 Leslie Ind. Park**

Site Plan

510 Industrial - Leslie, MI 48864
PART OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 27, T1N, R1W,
CITY OF LESLIE, INGHAM COUNTY, MICHIGAN

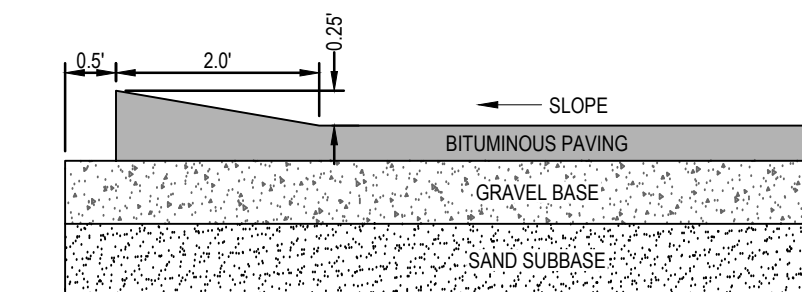
STAMP:



PROJECT NO:
22500108

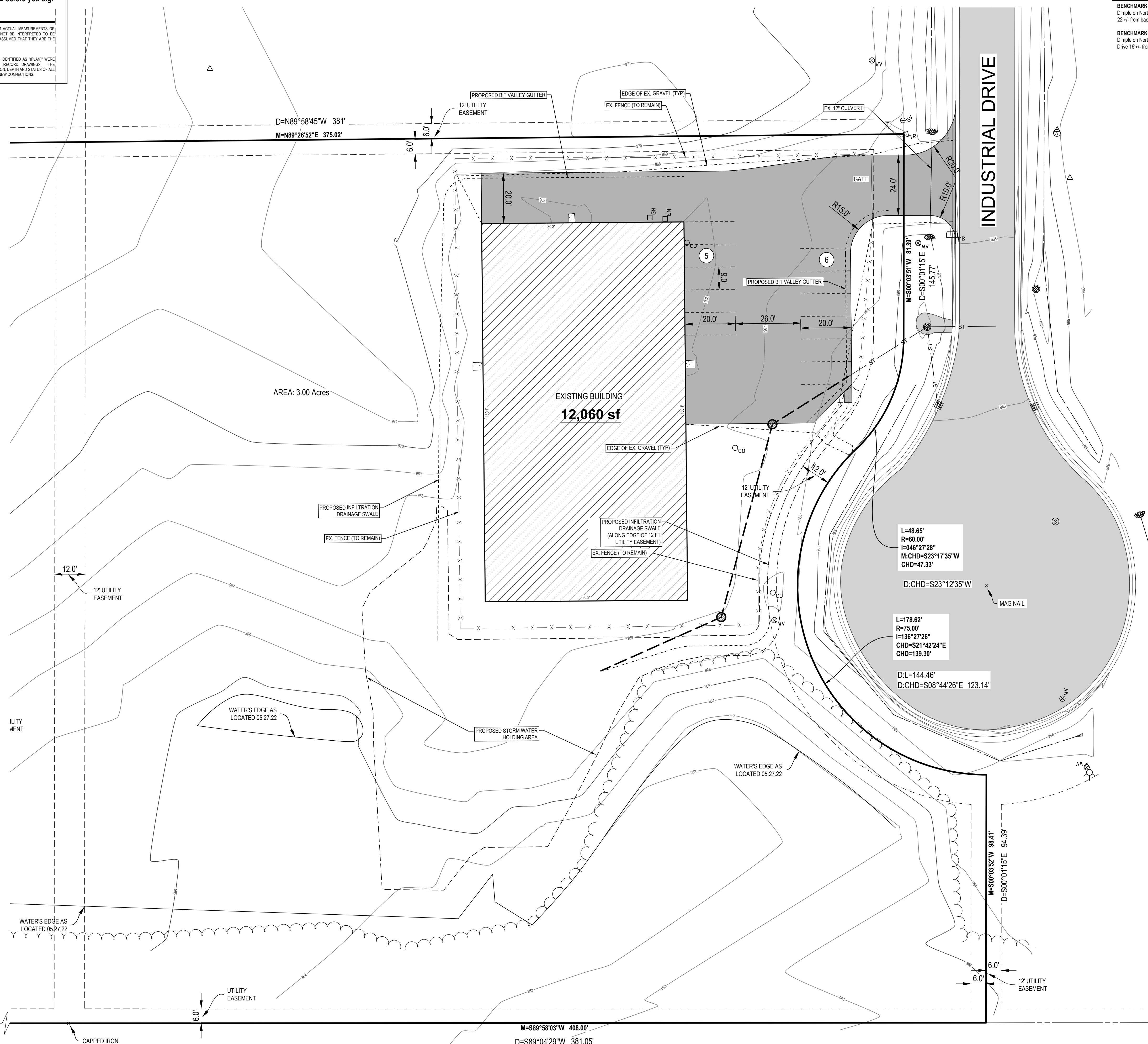
SHEET NO:
C-205

SHEET: 2 OF 3



**PRIVATE ROAD & SITE
BITUMINOUS VALLEY GUTTER DETAIL**
N.T.S.

CENTER
SEC. 27
T1N, R1W
B.16, P.204, ICR



W. 14 COR.
SEC. 27
T1N, R1W
B.15, P.88, ICR

M-S89°58'03"W 408.00'
D-S89°04'29"W 381.05'

GRADING NOTES:

- GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL REFERENCE AND ABIDE BY THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL EVALUATION PREPARED BY ATLAS TECHNICAL CONSULTANTS LLC, DATED APRIL 6, 2022. THE GEOTECHNICAL EVALUATION SHALL BE CONSIDERED A PART OF THE CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL REVIEW AND BECOME FAMILIAR WITH THE ON-SITE SOIL CONDITIONS AND RECOMMENDATIONS STATED THEREIN.
- ESTABLISH PERMANENT BENCH MARK ON-SITE PRIOR TO GRADING.
- PROPOSED SPOT GRADES ARE TO EDGE OF METAL TOP OF PAVEMENT UNLESS OTHERWISE NOTED. THE VERTICAL DIFFERENCE BETWEEN PAVEMENT GRADES AND TOP OF CURB GRADES VARY FOR PITCH IN AND PITCH OUT CURB (SEE DETAIL-THIS SHEET).
- EXISTING AND PROPOSED GRADE CONTOURS SHOWN AT 1 FOOT INTERVALS.
- THE EARTHWORK FOR ALL BUILDING FOUNDATIONS AND SLABS SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND ARCHITECTURAL BUILDING PLANS AND SPECIFICATIONS.
- CONTRACTOR IS RESPONSIBLE FOR UNDERCUTTING EXISTING POOR SOIL AND REPLACING WITH APPROVED FILL. IF POOR SOIL IS ENCOUNTERED THE GENERAL CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO MAKING ANY SOIL CORRECTIONS & SHALL PROVIDE UNIT COSTS IN THEIR BID FOR SUCH WORK.
- BEST MANAGEMENT PRACTICES WILL BE UTILIZED DURING AND AFTER CONSTRUCTION OF THE PROJECT. MEASURES WILL INCLUDE THE USE OF SEEDING AND MULCHING, SEDIMENT INLET FILTERS, COMPACTION AND PAVING. THE OWNER OF THE SUBJECT PARCEL SHALL HAVE THE RESPONSIBILITY TO MAINTAIN THE PERMANENT SOIL EROSION PROTECTION MEASURES.
- UTILITIES SHOWN ARE APPROXIMATE LOCATIONS DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.
- CONTRACTOR TO FIELD VERIFY ALL INVERTS PRIOR TO START OF CONSTRUCTION.
- SIDEWALKS ADJOINING THE BUILDING MUST HAVE A 6" HIGH INTEGRAL CURB.
- SLOPE CONCRETE SIDEWALKS AWAY FROM BUILDING AT A MINIMUM SLOPE OF 1/8" PER FOOT, INCLUDING RECESSED ENTRY.
- FINISHED GRADE AT EXTERIOR WALLS SHALL BE A MINIMUM OF 6" BELOW FINISHED FLOOR AT ALL NON-PAVED AREAS.

UTILITY NOTES

- GENERAL**
- CONSTRUCTION MUST CONFORM TO THE VILLAGE OF SUNFIELD STANDARD SPECIFICATIONS & STANDARD DETAILS.
 - EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
 - CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING UTILITY DURING CONSTRUCTION.
 - UTILITY TRENCHES WITHIN A 1 ON 1 INFLUENCE OF PAVED AREAS SHALL BE BACKFILLED W/ M.D.O.T. CLASS II OR BETTER AND COMPACTED TO 95% MAXIMUM UNIT DENSITY.
 - CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR DATA CUT SHEETS FOR PIPE MATERIALS, VALVES, CASTINGS, STEPS, AND MANHOLE STRUCTURES FOR REVIEW.
 - MAINTAIN A MINIMUM OF 10' HORIZONTAL AND 18" VERTICAL SEPARATION BETWEEN WATER AND SEWERS, AND A MINIMUM OF 5' HORIZONTAL AND 12" VERTICAL SEPARATION BETWEEN WATER AND OTHER UTILITIES.

WATER SERVICE

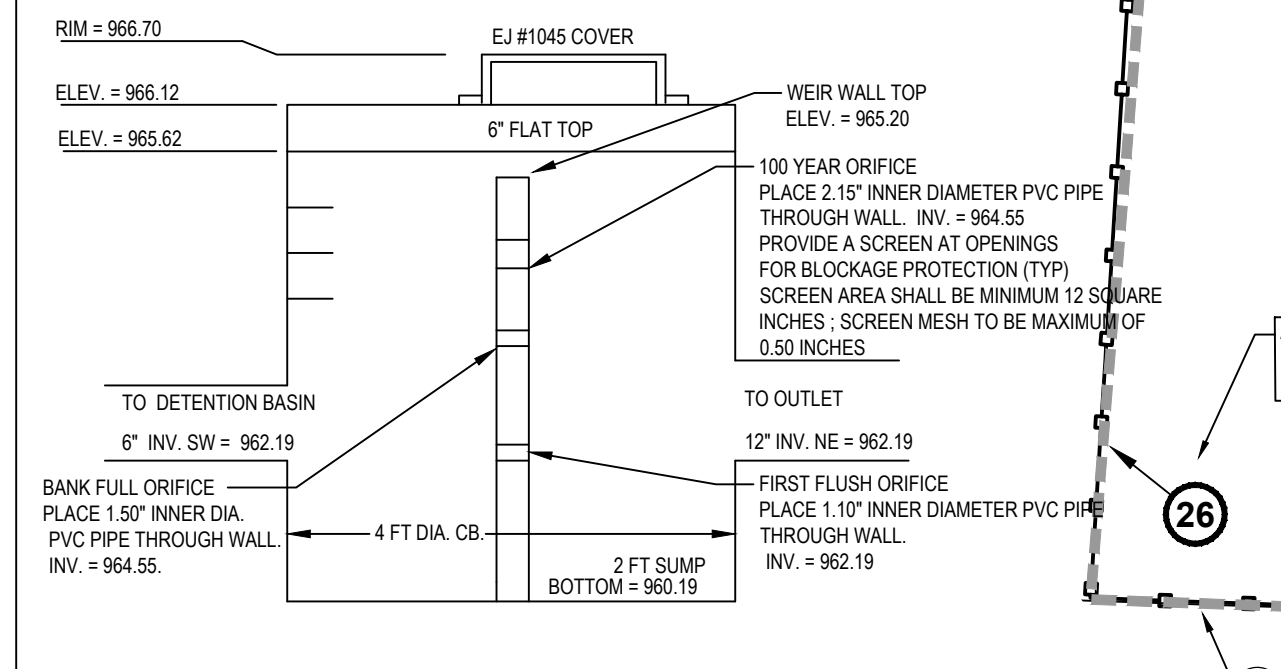
- THE PROPOSED BUILDING WILL BE SERVICED BY A NEW 1" TYPE K COPPER WATER LINE.
- WATER SERVICE AND METER SET TO BE INSTALLED IN ACCORDANCE WITH THE VILLAGE OF SUNFIELD PUBLIC WORKS DEPARTMENT STANDARDS & SPECIFICATIONS.
- ALL WATER SERVICE PIPES MUST BE LAID WITH A MINIMUM OF FIVE (5) FEET, OF COVER, SIX (6) FEET IS PREFERRED.
- THE WATER SERVICE MAY BE PLACED IN THE SAME TRENCH WITH THE SEWER LINE IF APPROVAL IS GIVEN BY THE WATER AND SEWER DEPARTMENT, AND ALL OF THE FOLLOWING CONDITIONS ARE MET:
 - THE BOTTOM OF THE WATER SERVICE PIPE AT ALL POINTS SHALL NOT BE LESS THAN 18 INCHES ABOVE THE TOP OF THE SEWER LINE AT ITS HIGHEST POINT.
 - THE WATER SERVICE PIPE SHALL BE PLACED ON A SOLID SHELF EXCAVATED AT ONE SIDE OF THE COMMON TRENCH.
- IF THE ABOVE CONDITIONS CANNOT BE MET, THE WATER SERVICE AND SEWER LINE SHALL BE SEPARATED BY A MINIMUM OF 10 FEET OF UNEXCAVATED EARTH.

SANITARY SERVICE

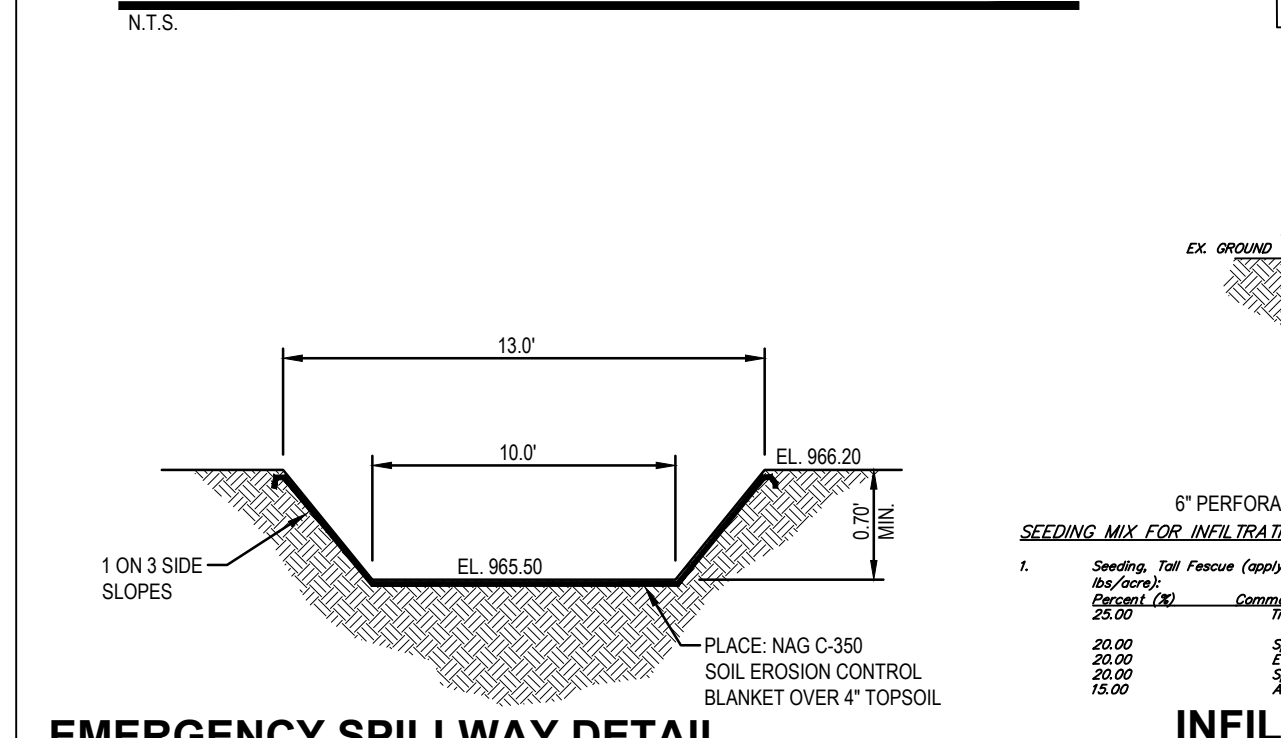
- SANITARY SEWER SERVICE & TAP TO EXISTING SEWER SHALL BE IN ACCORDANCE WITH THE VILLAGE OF SUNFIELD PUBLIC WORKS DEPARTMENT STANDARDS & SPECIFICATIONS.
- THE PROPOSED SANITARY SEWER LEAD SHALL BE PVC SDR-23.5 OR PVC SCH 40 UNLESS OTHERWISE NOTED.
- NO CONNECTION TO RECEIVING STORM WATER, SURFACE WATER OR GROUNDWATER SHALL BE MADE TO SANITARY SEWER.
- NO FOOTING DRAINS SHALL BE CONNECTED TO THE BUILDING SANITARY SEWER.
- TAPS & LEADS MUST BE INSPECTED AND APPROVED BY THE SEWER DEPARTMENT INSPECTORS, BEFORE BEING COVERED.

STORM WATER MANAGEMENT

- THE 100-YEAR STORM WATER RUNOFF GENERATED BY THE PROPOSED SITE IMPROVEMENTS WILL BE DETAINED ON-SITE PER THE REQUIREMENTS OF THE INGHAM COUNTY DRAIN COMMISSIONER.
- ALL CATCH BASINS AND MANHOLES SHALL BE CONCRETE, CONFORMING TO ASTM C-478 WITH BUTYL RUBBER GASKETED JOINTS AND BOOT TYPE PIPE CONNECTED, CONFORMING TO ASTM C-923 ARE REQUIRED FOR ALL PIPE CONNECTIONS 24" DIAMETER AND SMALLER.
- ALL CATCH BASINS SHOULD BE PROVIDED WITH A MINIMUM 2' SUMP.



EMERGENCY SPILLWAY DETAIL



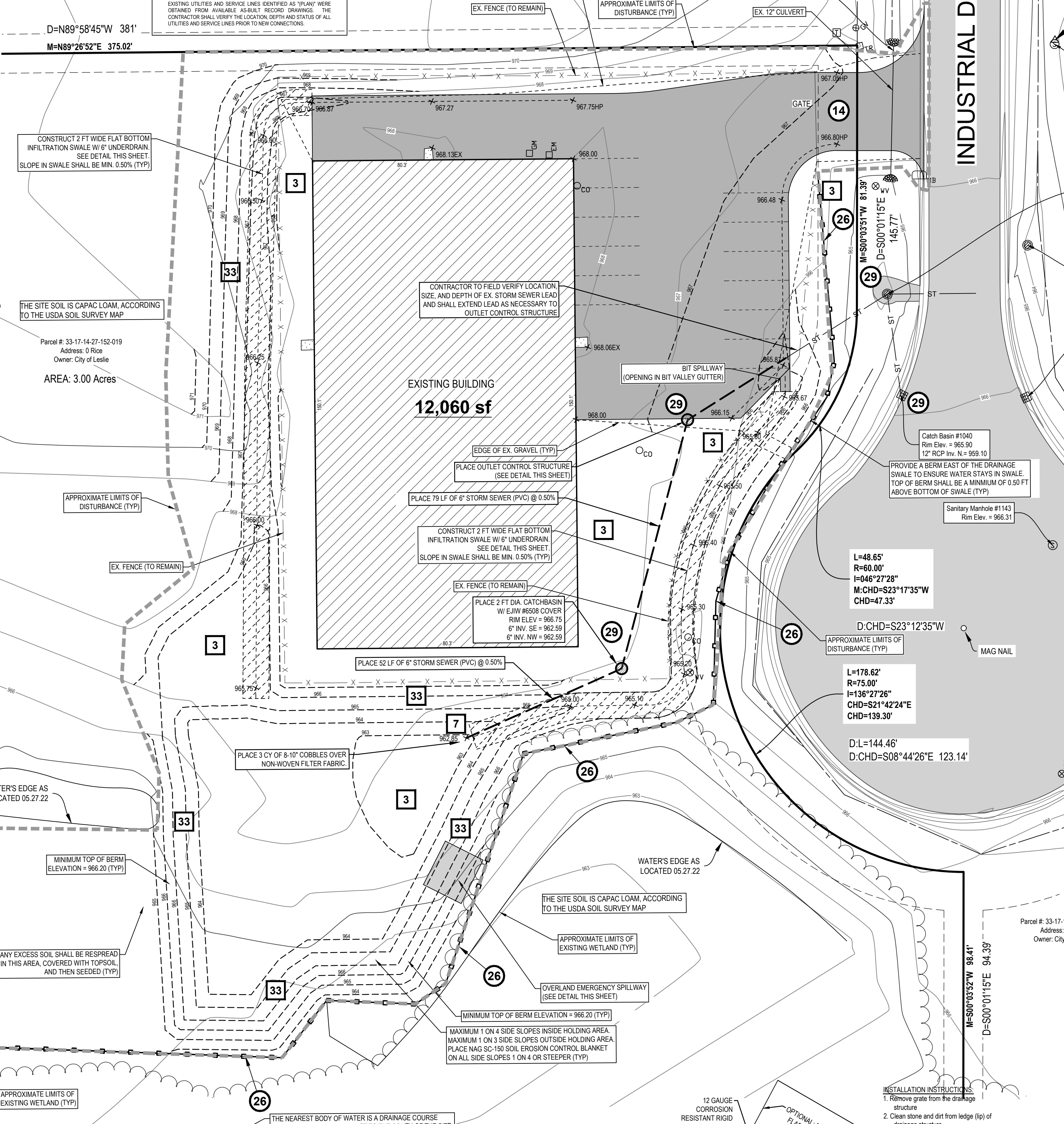
INFILTRATION SWALE DETAIL



UTILITY LOCATIONS ARE DERIVED FROM ACTUAL MEASUREMENTS OR AVAILABLE RECORDS. THEY SHOULD NOT BE INTERPRETED TO BE EXACT LOCATIONS NOR SHOULD IT BE ASSUMED THAT THEY ARE THE ONLY UTILITIES IN THIS AREA.

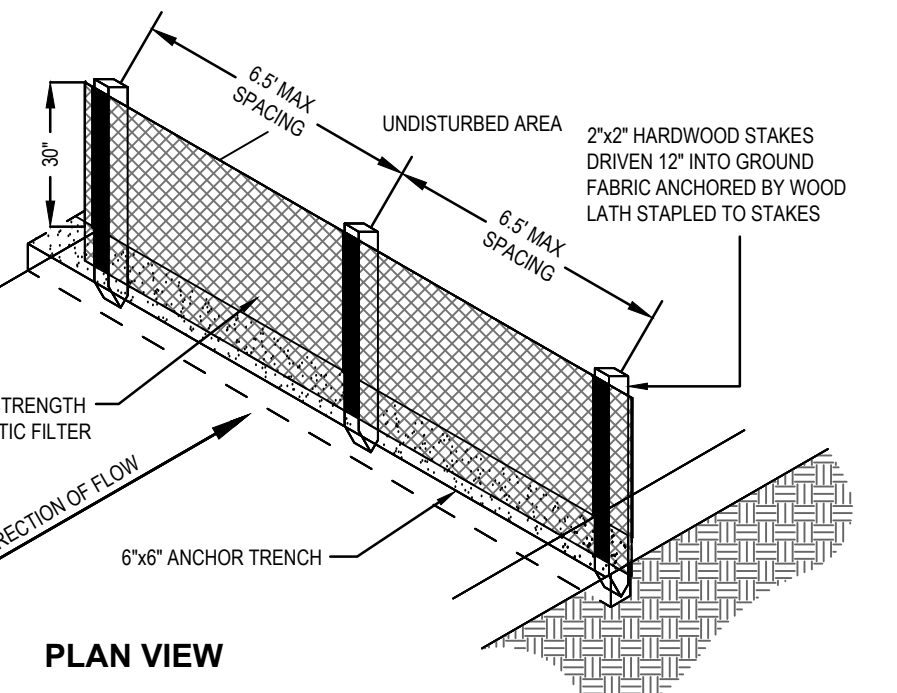
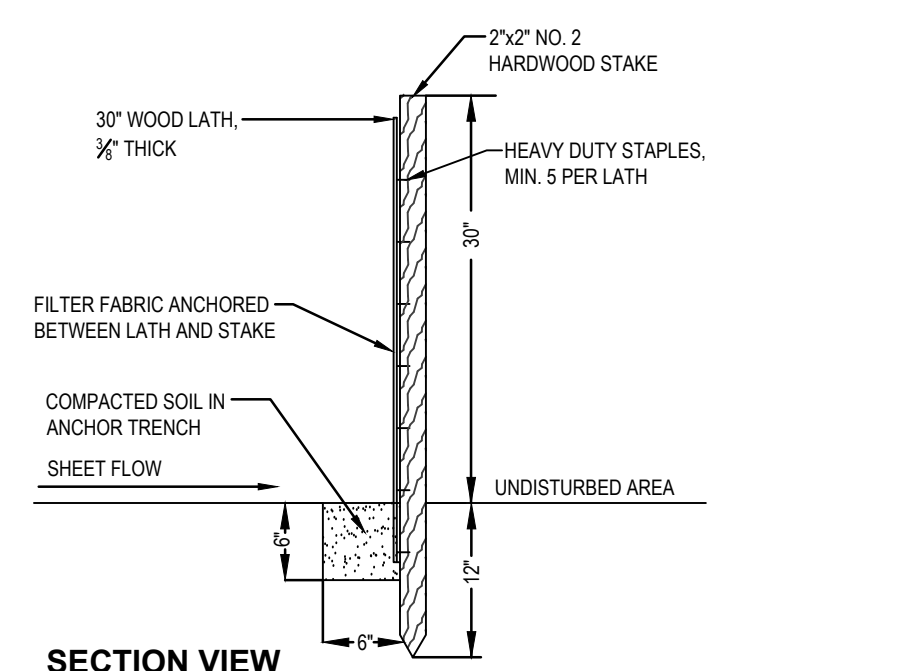
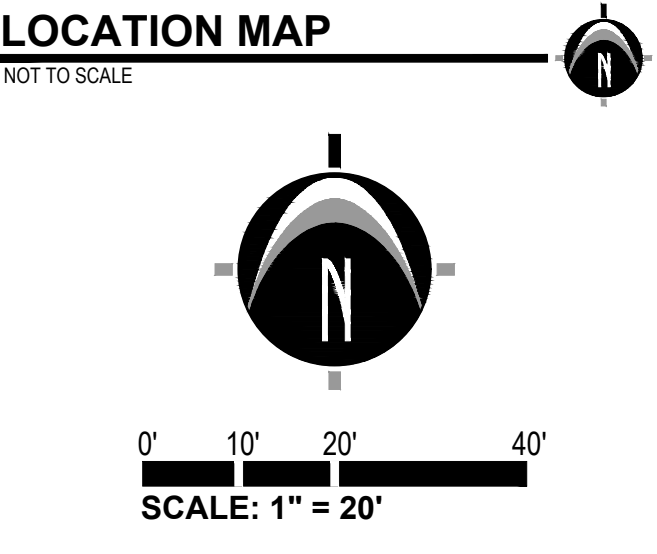
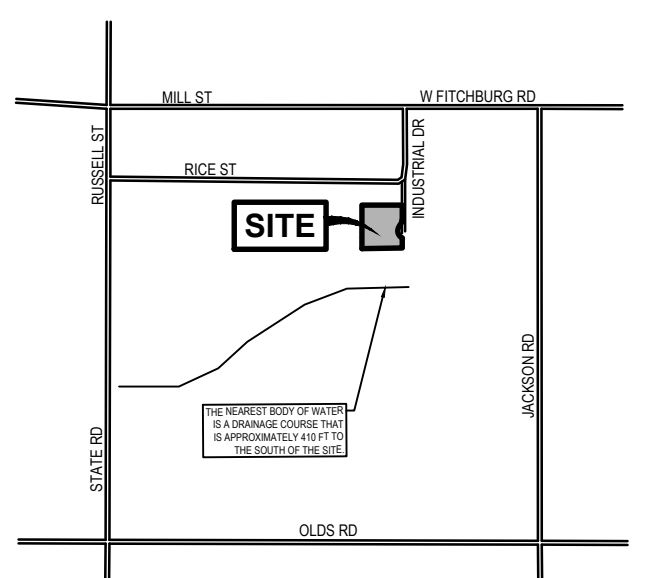
LEGAL DESCRIPTION

THAT PART OF SW 1/4 OF THE NW 1/4 OF SEC 27, T1N R1W, CITY OF LESLIE DESC AS: BEG ON EW 1/4 LN AT PT N89° 04'29" E 97.86 FT FROM W 1/4 COR OF SEC 27-N00° 01'15" W 411.39 FT-N89° 58'42" E 281 FT-ALONG W LN OF INDUSTRIAL PARK DR FOLLOWING 4 COURSES: S 00° 01'15" E 145.77 FT SWLY 48.65 FT ALNG 60 FT RAD CURVE TO RT, CHD BRG S 23° 12'35" W 47.33 FT, SELY 144.46 FT ALNG 75 FT RAD CURVE TO LEFT, CHD BRG S 08° 44'26" E 123.14 FT & S 00° 01'15" E 94.39 FT-S 89° 04' 29" W 381.05 FT ALNG EW 1/4 LN TO POB 3.48 AC + SPLIT ON 01/01/2006 FROM 33-17-14-27-152-017



BENCHMARKS

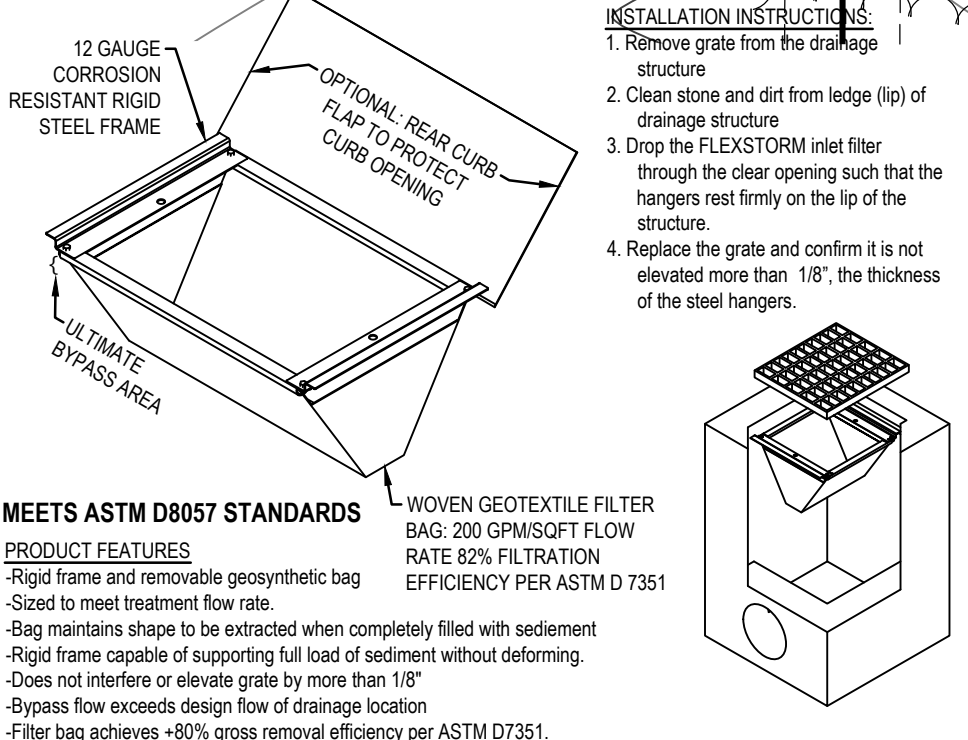
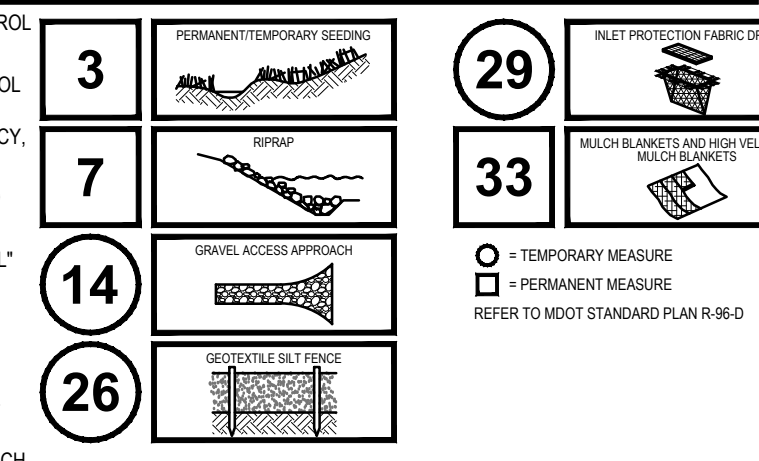
- BENCHMARK #300** ELEV. = 966.73 (NAVD83)
Dimple on North side of water valve, located at the cul-de-sac of Industrial Drive 22'-1" from back of curb.
- BENCHMARK #301** ELEV. = 965.96 (NAVD83)
Dimple on North side of sanitary manhole, located on the East side of Industrial Drive 22'-1" from back of curb and 270'-1" South of Rice Street.
- BENCHMARK #30** ELEV. = 965.96



SILT FENCE DETAIL

SOIL EROSION AND SEDIMENTATION CONTROL NOTES

- CONTRACTOR SHALL POSSESS THE SOIL EROSION AND SEDIMENTATION CONTROL PERMIT PRIOR TO START OF ANY EARTH WORK.
- CONTRACTOR SHALL MODIFY THIS SOIL EROSION AND SEDIMENTATION CONTROL PLAN TO SHOW THE ADDITIONAL CONTROL MEASURES INTENDED TO BE USED DURING CONSTRUCTION. SUBMIT MODIFICATIONS TO THE CONTROLLING AGENCY, THE OWNER, AND THE ENGINEER.
- EROSION PROTECTION SHALL BE PROVIDED AT ALL STORM SEWER INLETS AND OUTLETS. ALL BARE EARTH SHALL BE STABILIZED WITH SEEDING.
- REFER TO THE M.D.O.T. "SOIL EROSION AND SEDIMENTATION CONTROL MANUAL" (APRIL 2006) FOR ADDITIONAL INFORMATION.
- THE ENTIRE STORM SEWER SYSTEM SHALL BE CLEANED AND FLUSHED FOLLOWING CONSTRUCTION AND PAID RECEIPT THEREOF PROVIDED TO THE ENGINEER AND COUNTY SESC AGENT PRIOR TO FINAL PAYMENT BY THE CONTRACTOR OR FINAL ACCEPTANCE OF THE CONSTRUCTION BY THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO INSPECT, TAKE CORRECTIVE ACTION AND MAINTAIN ALL TEMPORARY SESC MEASURES DAILY AND AFTER EACH RAIN EVENT UNTIL FINAL COMPLETION AND ACCEPTANCE OF THE PROJECT.
- THE SITE SOIL IS PRIMARILY CAPAC LOAM PER THE USDA SOIL SURVEY MAP.
- DEWATERING IS NOT PLANNED; HOWEVER, IF DEWATERING BECOMES NECESSARY, A DEWATERING PLAN WILL BE SUBMITTED TO THE INGHAM COUNTY DRAIN COMMISSIONER'S OFFICE FOR APPROVAL PRIOR TO COMMENCEMENT.
- ALL IDLE AREAS MUST HAVE TEMPORARY SEEDING INSTALLED WITHIN 5 DAYS OF ROUGH GRADING. IDLE AREAS ARE DEFINED AS AREAS WHICH WILL NOT BE TRANSVERSED BY FOOT TRAFFIC OR VEHICLES, NOT HAVE STOCK MATERIALS STORED ON THEM, TEMPORARY GRASSES ARE TO BE PRESERVED UNTIL FINAL GRADE AND PERMANENT VEGETATION IS INSTALLED.
- FINAL STABILIZATION MUST OCCUR WITHIN 5 DAYS OF FINE GRADE.



TEMPORARY CRUSHED ROCK TRACKING PAD



PERMANENT LONG-TERM MAINTENANCE

SYSTEM COMPONENTS	PAVED AREAS	PERMANENT MAINTENANCE SYSTEM	STORM CONVEYANCE SYSTEM	STORM CONVEYANCE SYSTEM	CATCH BASIN SWIMERS	CATCH BASIN INLET CASINGS	OUTLET CONTROL STRUCTURE	PERSON / SCHEDULE
INSPECT FOR SEDIMENT ACCUMULATION	X	X	X	X	X	X	X	BY OWNER; SEM-ANNUALLY AS NEEDED*
REMOVAL OF SEDIMENT AND DEBRIS	X	X	X	X	X	X	X	BY OWNER; ANNUALLY
CLEANING FOR FLOATABLES AND DEBRIS	X	X	X	X	X	X	X	BY OWNER; ANNUALLY
INSPECTION FOR EROSION	X	X	X	X	X	X	X	BY OWNER; SEM-ANNUALLY
REESTABLISH PERMANENT VEGETATION ON ERODED SLOPES	X	X	X	X	X	X	X	BY OWNER; AS NEEDED
CLEAN DRIVES AND PARKING LOTS	X	X	X	X	X	X	X	BY OWNER; ANNUALLY
MOWING	X	X	X	X	X	X	X	BY OWNER; AS NEEDED

AS NEEDED MEANS WHEN SEDIMENT HAS ACCUMULATED TO A MAXIMUM OF ONE FOOT DEPTH

NEDERVELD
www.nederveld.com
800.222.1868
GRAND RAPIDS
217 Grandville Ave., Suite 302
Grand Rapids, MI 49503
Phone: 616.575.5190

ANN ARBOR
CHICAGO
COLUMBUS
HOLLAND
INDIANAPOLIS

PREPARED FOR:
For: NEWCO Design Build, LLC
Attention: Burton Cardwell

4131 Roger B Chaffee Memorial Dr SE
Grand Rapids, MI 49548
Telephone: (616) 493-9360

REVISIONS:

Title	Preparation	Checked	SW	Date
Title: Preliminary Plan	Drawn: SW	Checked: SW	Date: 06/17/22	
Title: Site Plan	Drawn: SW	Checked: SW	Date: 07/01/22	
Title: Site Plan	Drawn: SW	Checked: SW	Date: 07/15/22	
Title: Per SESC Comments from ICDC	Drawn: SW	Checked: SW	Date: 08/18/22	

Cultio, LLC
Parcel 3 Leslie Ind. Park
Utility, Grading & S.E.S.C. Plan

510 Industrial - Leslie, MI 49251
PART OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 27, T1N, R1W, CITY OF LESLIE, INGHAM COUNTY, MICHIGAN

STAMP:

STATE OF MICHIGAN
STEVEN WITTE
ENGINEER
No. 46769
LICENSED PROFESSIONAL ENGINEER

PROJECT NO:
22500108

SHEET NO:
C-300

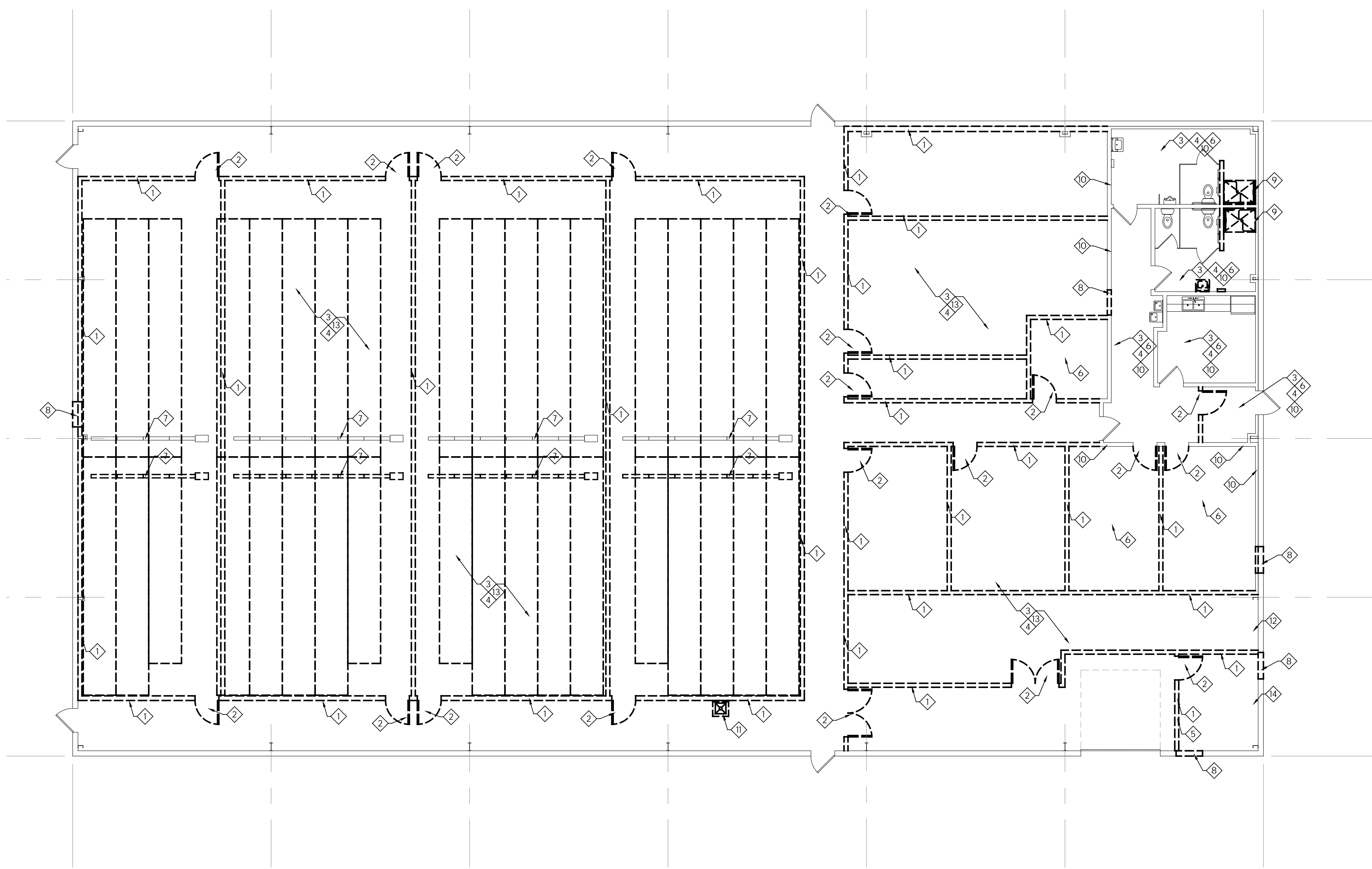
SHEET: 3 OF 3

Plan Keyed Notes:

- 1 REMOVE INTERIOR STUD WALL AND IMP WALL CONSTRUCTION FROM FLOOR TO ROOF DECK - REMOVE LOW CEILING IN GROW SPACES- ENSURE FASTENERS IN SLAB ARE LEVEL WITH THE SLAB - TYPICAL FIELD VERIFY LOCATIONS OF EXISTING UTILITIES, WATER SUPPLIES AND DRAINS THAT MAY NOT BE INDICATED ON DRAWINGS AND ARE TO BE REMOVED AND CAPPED.
- 2 REMOVE EXISTING DOORS, FRAMES, AND HARDWARE-TYP.
- 3 REMOVE EXISTING FLOOR FINISHES INCLUDING MECHANICALLY REMOVING ADHESIVES AND MORTAR RESIDUES, VERIFY CONDITION OF SLAB - CONTACT ARCHITECT IF AREA OF CONCERN IS LOCATED - OTHERWISE PROVIDE FLOOR LEVELING COMPOUND AS NEEDED
- 4 REMOVE LIGHT FIXTURES AND WIRING BACK TO PANEL AND ANY OTHER SYSTEMS NOT REUSED IN OWNER PLAN. RETURN ITEMS TO OWNER OR DISPOSE OF AS DIRECTED BY OWNER. NOTE: ALL CAPPING TO BE BELOW SLAB OR TIGHT TO DECK
- 5 RELOCATE AND REUSE EXISTING ELECTRICAL PANELS, TRANSFORMER, AND PHONE BOARD AS POSSIBLE
- 6 REMOVE EXISTING SUSPENDED CEILING PANELS, GRID SYSTEM, HVAC DUCTWORK, GRILLES AND LIGHTING
- 7 EXISTING TRENCH DRAINS TO REMAIN, EXTEND NEW ROOM DRAINS TO CENTRAL TRENCH DRAIN - CUT SLAB - PREP TRENCH DRAIN FOR NEW CONNECTIONS
- 8 NEW OPENING IN EXISTING WALL - HEIGHT AS NOTED IN ARCHITECTURAL DRAWING - ENSURE FASTENERS IN SLAB ARE LEVEL WITH THE SLAB - TYPICAL FIELD VERIFY LOCATIONS OF EXISTING UTILITIES, WATER SUPPLIES AND DRAINS THAT MAY NOT BE INDICATED ON DRAWINGS AND ARE TO BE REMOVED AND CAPPED. PROVIDE FOR LINTELS AS NEEDED
- 9 REMOVE SHOWER - PREP FOR NEW FIXTURE
- 10 REMOVE EXISTING WALL FINISHES - WALLS SCHEDULED TO REMAIN SHALL BE PATCHED AND REPAIRED AS REQUIRED TO RESTORE TO LIKE NEW CONSTRUCTION AND READY TO RECEIVE OWNER FINISHES
- 11 REMOVE WALL SINK - CUT AND CAP ALL SUPPLY AND WASTE LINES NOT BEING REUSED BELOW FLOOR SLAB OR TIGHT TO DECK - EXTEND TO NEW SINK LOCATIONS AS POSSIBLE
- 12 EXAMINE EXISTING WATER HEATER - REMOVE AS DIRECTED - CUT AND CAP ALL SUPPLY AND WASTE LINES NOT BEING REUSED BELOW FLOOR SLAB OR TIGHT TO DECK
- 13 REMOVE EXISTING GROW EQUIPMENT AS OURS - RETURN TO OWNER - REUSE AS DIRECTED
- 14 EXAMINE EXISTING FURNACE - REMOVE AS DIRECTED - REMOVE ALL DUCT WORK NOT BEING REUSED

Demolition Plan Notes:

1. THE INFORMATION SHOWN IS BASED ON EXISTING INFORMATION PROVIDED TO NEWCO DESIGN-BUILD AND SITE OBSERVATIONS. THE GENERAL CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES.
2. COORDINATE CONSTRUCTION ACTIVITIES WITH OWNER TO MINIMIZE DISRUPTIONS. NOTIFY THE OWNER IN ADVANCE TO COORDINATE TEMPORARY UTILITY SHUT-OFFS.
3. CONTRACTOR TO FIELD VERIFY ALL EXG. EQUIPMENT AND STRUCTURAL CONDITIONS. VERIFY ALL WALLS THAT ARE SCHEDULED TO BE DEMOLISHED ARE NOT LOAD BEARING.
4. PROVIDE SHORING OF EXISTING STRUCTURE AS RECD. CEASE WORK AND NOTIFY ARCHITECT IMMEDIATELY IF CONTRACTOR ENCOUNTERS UNEXPECTED CONDITIONS OR STRUCTURES BEGIN TO FAIL.
5. IT IS UNKNOWN WHETHER HAZARDOUS MATERIALS WILL BE ENCOUNTERED IN THE WORK. IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB. IMMEDIATELY NOTIFY THE ARCHITECT.
6. VERIFY LOCATIONS OF ANY FIRE RATED CONSTRUCTION AND PENETRATION PROTECTION METHODS AS MAY OCCUR AND MAINTAIN INTEGRITY OF ASSEMBLIES AND REQUIRED ACCESS DURING OPERATIONS.
7. PROVIDE AND MAINTAIN PORTABLE U.L. RATED FIRE EXTINGUISHERS AS MAY BE REQUIRED BY AUTHORITIES HAVING JURISDICTION.
8. MAINTAIN SAFE EXITING FROM THE EXG. BUILDING DURING DEMOLITION, INCLUDING ACCESSIBLE TEMPORARY EGRESS - COMPLY WITH ICC/ANSI A117.1 AND THE MICHIGAN BARRIER FREE CODE.
9. CONDUCT SELECTIVE DEMOLITION, STAGING, AND REMOVAL OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH EXTERIOR ROADS, WALKS, AND ADJACENT BUILDINGS AND WITH INTERIOR OCCUPIED AREAS.
10. PROVIDE PROTECTION FROM ADVERSE WEATHER CONDITIONS FOR PORTIONS THAT MIGHT BE EXPOSED TO THE OUTSIDE DURING CUTTING, DEMOLITION AND PATCHING WORK - INSULATE ENCLOSURE DURING COLD WEATHER SEASON FOR OCCUPIED BUILDINGS.
11. AVOID TRAPPING WATER IN WORK. DOCUMENT VISIBLE SIGNS OF MOLD OR WATER DAMAGE AND NOTIFY ARCHITECT.
12. PROVIDE STURDY, LOCKABLE ENTRANCES AT TEMPORARY ENCLOSURES AND LOCK AT END OF EACH WORK DAY.
13. PROVIDE AND MAINTAIN FLOOR TO CEILING TEMPORARY BARRIERS TO PREVENT DUST, FUMES AND ODORS FROM LEAVING AREAS OF DEMOLITION. ISOLATE H.V.A.C. DUCTS IN AREA OF WORK. AT A MINIMUM, UTILIZE MATERIALS WHERE APPROPRIATE OF THE FOLLOWING: REINFORCED 10 MIL POLY-ETHYLENE SHEETING WITH A MAXIMUM FLAME SPREAD OF 15 PER ASTM E 84, G.P.D.W. WITH JOINTS TAPED AT OWNER OCCUPIED SIDE, FIRE RETARDANT PLYWD., GASKETING, AND WALK-OFF MATS.
14. PROTECT AREAS AND SURFACES THAT ARE NOT INDICATED TO BE DEMOLISHED.
15. SHUT-OFF UTILITIES PRIOR TO WORK ON SELECTED UTILITY AREAS. CAP EXISTING PLUMBING TO BE ABANDONED.
16. PROVIDE ACCESS FOR PLUMBING WHERE NECESSARY. COORDINATE WITH PLUMBING CONTRACTOR PRIOR TO COMPLETION OF DEMOLITION WORK.
17. REMOVE FLOOR, WALL AND CEILING IN AREAS OF DEMOLITION AS REQUIRED TO CARRY OUT WORK IN REMAINDER OF DRAWINGS - NOT ALL CONDITIONS ARE NOTED.
18. PERFORM DEMOLITION IN AN ORDERLY AND WORKMANLIKE MANNER. WORK FROM HIGH TO LOW AREAS. PROVIDE WASTE COLLECTION CONTAINERS IN SIZES ADEQUATE TO HANDLE OPERATIONS. PERFORM DAILY CONSTRUCTION CLEANUP.
19. CLEAN AREAS AND SPACES WHERE CUTTING, DEMOLITION, AND PATCHING ARE PERFORMED. COMPLETELY REMOVE PAINT, MORTAR, OILS, PUTTY AND SIMILAR MATERIALS.
20. COMPLETELY DISPOSE OF DUST, DIRT, AND DEBRIS CAUSED BY SELECTIVE DEMOLITION.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL REFUSE OFF SITE UNLESS NOTED OTHERWISE. DO NOT ALLOW THE DEMOLISHED MATERIALS TO ACCUMULATE ON SITE. LEGALLY DISPOSE OF OFF SITE. DO NOT BURN DEMOLISHED MATERIALS.
22. COMPLY WITH ALL GOVERNING E.P.A. NOTIFICATION REGULATIONS. COMPLY WITH HAULING AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
23. PATCH SELECTIVE DEMOLITION TO FINISH FLUSH WITH AND MATCH THE ADJACENT SURFACES BY MATERIAL AND TEXTURE, SUCH THAT THERE IS NO VISIBLE EVIDENCE OF CORRECTIVE WORK.
24. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE SELECTIVE DEMOLITION WORK BEGAN.
25. REFER TO SHEET WITH FINISHES INFORMATION FOR ADDITIONAL REQUIREMENTS ON SURFACE PREPARATION.
26. CONSTRUCTION SITE SAFETY IS TO BE MAINTAINED AT ALL TIMES. ALL SUBCONTRACTORS SHALL REVIEW AND FOLLOW ALL OSHA REGULATIONS. ITEMS OF PARTICULAR CONCERN INCLUDE, BUT ARE NOT LIMITED TO: FALL PREVENTION, LADDER SAFETY, SCAFFOLDING, ELECTRICAL HAZARDS, TRENCHING AND EXCAVATION, AND TRIP HAZARDS. ALL JOBSITES WILL REQUIRE COMPLIANCE WITH THE SILICA STANDARD, OSHA 29 CFR 1926.1153.



Demolition Plan
SCALE: 1/8" = 1'-0"

NEWCO
Design Build LLC

4131 Roger B. Chittlee
Memorial Blvd. SE
Grand Rapids, MI 49508
(616) 493-9340 Tel.
(616) 493-9344 Fax
www.NewcoDB.com

SEAL:

ARCHITECT:
BRADFORD W. POTTER

PROJECT No.:
30-00630

#	DATE	ISSUED FOR
09/06/22	PERMIT	
06/30/22	REVIEW AND PRICING	
05/20/22	REVISED LAYOUT	
05/03/22	PRELIM LAYOUT	

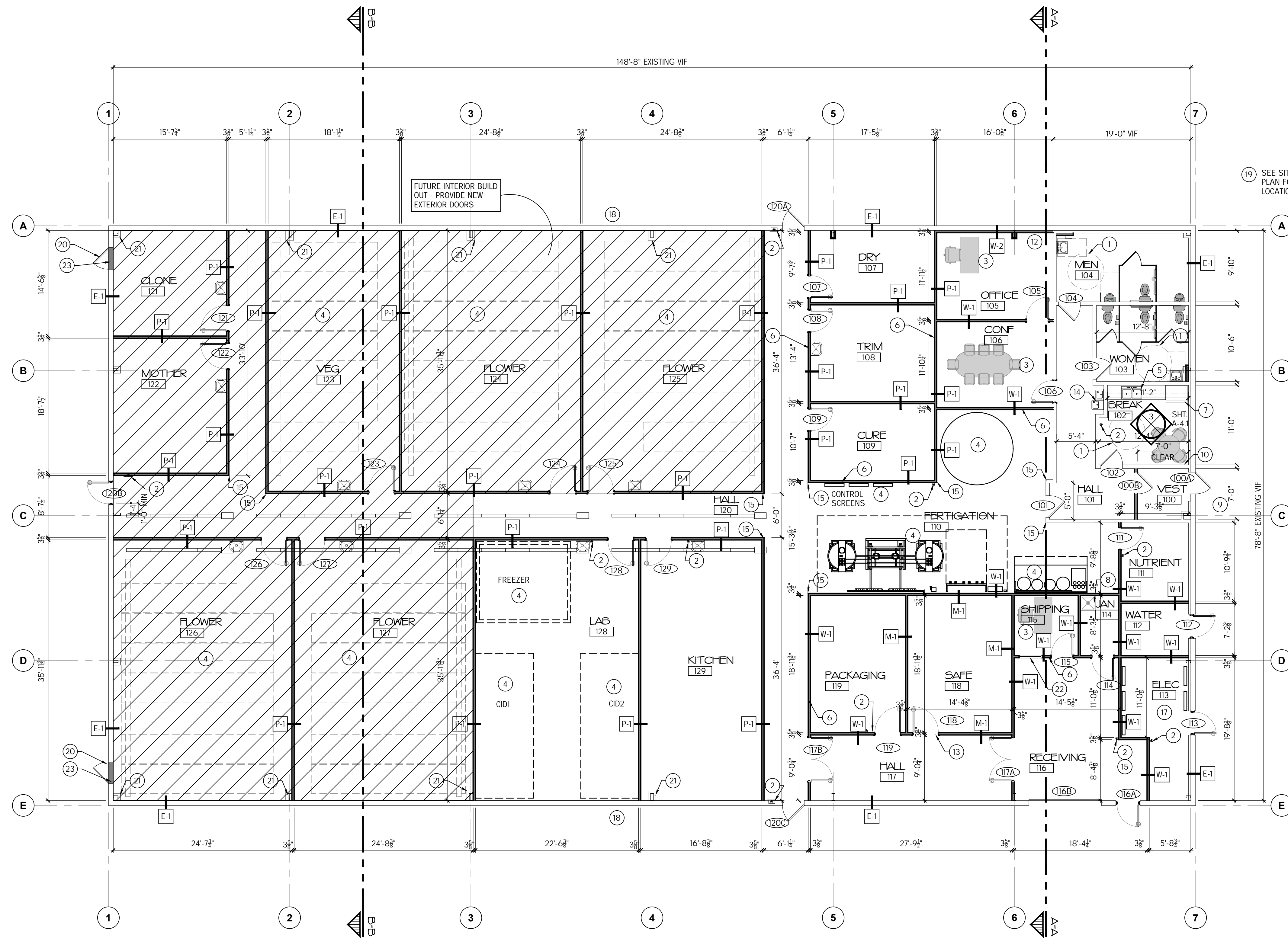
PROJECT NAME:
GROW FACILITY
LESLIE, MICHIGAN

SHEET TITLE:
Demolition Plan and Notes

SHEET No.:
D-1.1

PLOT DATE: 09/06/2022 09:29 AM
PLOT: 01/01/2022

NOTE:
ALL DIMENSIONS ARE FACE OF STUD TO
FACE OF STUD UNLESS NOTED OTHERWISE



Plan Keyed Notes:

- 1 BARRIER FREE 5'-0" DIA. MIN. OR OTHER CLEAR FLOOR AREA AS DENOTED, TYP. WHERE INDICATED.
- 2 CLASS 2-A FIRE EXTINGUISHER PLACE IN SEMI-RECESSED CABINET IN PUBLIC SPACES - COORDINATE WITH AHJ
- 3 FURNISHINGS BY OWNER - SHOWN FOR REFERENCE ONLY - TYPICAL
- 4 EQUIPMENT BY OWNER, SHOWN FOR REFERENCE ONLY. COORDINATE W/ PHONE-DATA-POWER.
- 5 PLASTIC LAMINATE COUNTER AND MILLWORK. REFER TO MILLWORK DETAILS AND INTERIOR ELEVATIONS.
- 6 PROVIDE TYPICAL GYP. BD. CONTROL JOINT DETAIL AS RECOMMENDED BY GYP. BD. MANUFACTURER
- 7 FULL SIZE REFRIGERATOR BY OWNER. PLUMBER TO INSTALL WATER LINE
- 8 NEW MOP SINK BASIN WITH F.R.P. 48" HIGH
- 9 BARRIER FREE DOOR ACTIVATOR - POST MOUNTED - PROVIDE POWER - SEE ELECTRICAL
- 10 PROVIDE SHELVE AND ROD
- 11 PLASTIC LAMINATE SILL AT WINDOWS
- 12 COORDINATE POWER AND DATA FOR SECURITY EQUIPMENT - MULTIPLE MOUNTING HEIGHTS POSSIBLE
- 13 SAFE DOOR AS SELECTED BY OWNER - VERIFY
- 14 EXISTING HI-LO EWC - VERIFY WATER LINE, POWER, AND SANITARY
- 15 STAINLESS STEEL CORNER GUARD AT EXTERIOR CORNERS IN WORK AREAS
- 16 ALIGN NEW WALL FINISH WITH EXISTING
- 17 ELECTRICAL SERVICE - EXACT LOCATION TO BE DETERMINED - SEE ELECTRICAL ENGINEERING DRAWINGS
- 18 GROUND MOUNTED CONDENSING UNITS - SEE MECHANICAL
- 19 PROVIDE SCREENED DUMPSTER ENCLOSURE - SEE DETAILS
- 20 EXISTING DOOR - CLOSE AND LOCK - REMOVE EXTERIOR HARDWARE
- 21 WRAP COLUMNS WHERE INDICATED
- 22 METAL FRAMED WINDOW - 1/4" TEMPERED GLASS
- 23 INFILL EXISTING WALL TO MATCH ADJACENT

GENERAL UTILITIES NOTES:

DATA ELECTRICAL, H.V.A.C. & PHONE TO BE ENGINEERED BY OTHERS. FIELD VERIFY WORK EXTENTS AND COORD. LOCATION OF SWITCHES, DIFFUSERS, LIGHTS, DATA, PHONE AND POWER AS REQ'D. FOR WORK

FLOOR REPAIR NOTE:

INFILL FLOOR AT AREAS OF WALL DEMOLITION WITH 'FLOORSTONE' TO BRING FLUSH TO EXG. FINISHES TO REMAIN

PAINT SCOPE NOTE:

ALL DOOR AND WALL PRIME, PAINT, AND STAIN WORK TO BE BY CONTRACTOR

SECURITY NOTE:

COORDINATE MOUNTING UTILITY AND WIRING REQUIREMENTS WITH OWNER'S SECURITY CONTRACTOR

LIGHTING NOTES:

- 1 GENERAL CONTRACTORS TO VERIFY LOCATION OF ALL EMERGENCY AND EXIT LIGHTS WITH THE BUILDING OFFICIAL PRIOR TO INSTALLATION.
- 2 ELECTRICAL WORK IS TO FOLLOW THE MICHIGAN BUILDING CODE AND NATIONAL ELECTRIC CODE (LATEST EDITIONS).

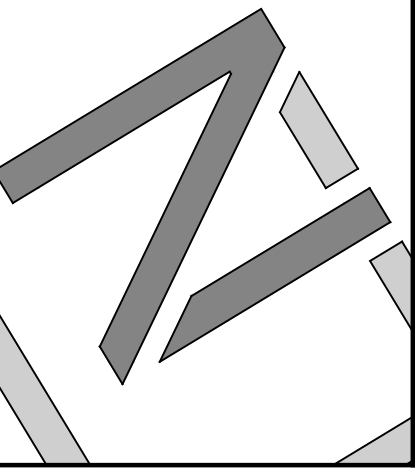
Wall Legend:

Mark:	Description:	Fire:
E-1	EXISTING METAL BUILDING WALL - FIELD VERIFY CONDITION AND REPAIR AS NEEDED - VERIFY INSULATION	NONE
P-1	3 5/8" LOAD BEARING METAL STUDS @ 16" O.C. FILL WITH ROCKWOOL INSULATION - PROVIDE METAL LINER PANEL EACH SIDE OF STUD - AT OFFICES PROVIDE GYP BOARD ON OFFICE SIDE - ANCHOR AND ATTACH AS DIRECTED BY APPROVED SHOP DRAWINGS - EXTEND HALLWAY OR END WALLS TO ROOF LINER PANELS - TOP OF WALL VARIES	NONE
W-1	5/8" GYP. BD. EACH SIDE 3 5/8" METAL STUDS @ 16" O.C. RUN STUDS AND GYP. BD. TIGHT TO UNDERSIDE OF ROOF LINER - UNLESS NOTED OTHERWISE, INSTALL SOUND BATT INSULATION IN STUD CAVITIES. PROVIDE SOUND SEALANT AT STUD TO PERIM. SEE FINISH SCHEDULE	NONE
W-2	5/8" GYP. BD. OVER 3 5/8" METAL FURRING. RUN FURRING AND GYP. BD. TO FIRST GIRT ABOVE CEILING. INSTALL SOUND BATT INSULATION IN CAVITIES. PROVIDE SOUND SEALANT AT PERIM. SEE FINISH SCHEDULE - LINER PANEL ABOVE - SEAL AND CAULK	NONE
W-3	5/8" GYP. BD. OVER 3 5/8" METAL STUDS @ 16" O.C. - PROVIDE CHICKEN WIRE AND 5/8" PLYWOOD TO SAFE SIDE OF STUDS - ANCHOR TO ROOF STRUCTURE - PAINT	NONE

Arch'l. Plan Notes:

- 1 FIELD MEASURE AND VERIFY OR REVISE DIMENSIONAL INFORMATION TO THE EXTENT REQUIRED TO EXECUTE WORK REQUIRED ON THE CONTRACT DOCUMENTS.
- 2 COORDINATE TOLERANCES OF FRAMING AND SUBSTRATES TO FINISH MATERIAL REQUIREMENTS.
- 3 MAIN FLOOR ELEVATIONS 100'-0". SEE CIVIL DRAWINGS FOR ACTUAL ELEVATIONS.
- 4 ALL DIMENSIONS INDICATED ON DRAWINGS SHALL BE VERIFIED PRIOR TO CONSTRUCTION.
- 5 ACQUIRE AND MAINTAIN, ON SITE, MATERIAL MANUFACTURERS' WRITTEN RECOMMENDATIONS AND INSTRUCTIONS FOR INSTALLATION REQUIREMENTS.
- 6 COMPLY WITH MANUFACTURERS' WRITTEN INSTRUCTIONS FOR TEMPERATURE AND RELATIVE HUMIDITY FOR PROPER INSTALLATION.
- 7 EXTEND JAMB STUD FRAMING EACH SIDE OF DOOR OPENING AND ATTACH SECURELY TO STRUCTURE ABOVE.
- 8 UNLESS INDICATED OTHERWISE, INTERIOR WALLS SHALL EXTEND TO AND FASTEN TO BOTTOM OF STRUCTURE.
- 9 BRACE ALL STUD WALLS THAT DO NOT GO TO STRUCTURE ABOVE WITH MIN. 4" NOMINAL STUDS AT 45 DEG. DIAGONAL AND SECURED TO STRUCTURE ABOVE AT 48" O.C. MAXIMUM. COORDINATE WITH MECHANICAL AND ELECTRICAL EQUIPMENT REQUIREMENTS BEFORE INSTALLATION.
- 10 WHERE FINISHED WALLS DO NOT CONTINUE FULL HEIGHT, EXTEND STUDS AS REQ'D. TO SECURE TO STRUCTURE. TERMINATE G.P.D.W. BOARDS AT 4" MIN. PAST LAY-IN ACOUSTICAL PANEL CEILINGS.
- 11 DO NOT BRIDGE BUILDING EXPANSION AND CONTROL JOINTS. INDEPENDENTLY FRAME BOTH SIDES OF JOINTS AND CLOSE AS DETAILED OR BY THE MFR'S. RECOMMENDATIONS WHEN NOT INDICATED.
- 12 WOOD BLOCKING AND NAILERS THAT COME INTO CONTACT WITH CONCRETE OR MASONRY ARE TO BE TREATED WOOD OR PROVIDE MATERIAL BARRIER
- 13 PROVIDE ISOLATION STRIP FOR METAL STUD FRAMING AT EXTERIOR WALLS, MASONRY, AND DISSIMILAR METALS. USE MINIMUM 15# ASPHALT FELT OR ADHESIVE BACKED CLOSED CELL FOAM IN WIDTHS TO SUIT STUD SIZES.
- 14 MAKE JOINTS UNIFORM IN WIDTH. WHERE JOINTS IN EXPOSED WORK ARE NOT INDICATED, ARRANGE FOR THE BEST VISUAL EFFECT. FIT EXPOSED CONNECTIONS TOGETHER TO FORM HAIRLINE JOINTS.
- 15 WHERE SOUND ATTENUATION BATT INSULATION IS SCHEDULED, INSTALL 3 1/2" BATT IN CAVITIES TO MINIMUM 3" ABOVE CEILING AND ADDITIONAL 48" ONTO CEILING EACH SIDE. SEAL ALL APPURTENANCE OPENINGS IN WALL AND OFFSET ONES INSTALLED BACK TO BACK BY ONE STUD CAVITY. APPLY SEALANT BEAD AT SILL PLATE OF WALLS AND AT TOP PLATES OF CEILINGS.
- 16 REMOVE DEBRIS FROM CONCEALED SPACES BEFORE ENCLOSING.
- 17 REPAIR OR REMOVE AND REPLACE DEFECTIVE CONSTRUCTION. REMOVE AND REPLACE DAMAGED SURFACES THAT ARE EXPOSED TO VIEW WHEN SURFACES CANNOT BE CORRECTED WITHOUT VISIBLE EVIDENCE OF REPAIR.
- 18 REFER TO FINISHES SHEET NOTES FOR ADDITIONAL REQUIREMENTS.
- 19 COORDINATE LOCATIONS OF BELOW SLAB UTILITIES AND SLAB REINFORCING PRIOR TO CONCRETE POUR.
- 20 INFORMATION SHOWN IS BASED ON EXISTING REFERENCE RESOURCES PROVIDED TO NEWCO AND FROM SITE OBSERVATIONS. SOME CONDITIONS WHICH MAY AFFECT THE PLANS MAY BE UNKNOWN WITHOUT DESTRUCTIVE OR INVESTIGATIVE METHODS. GENERAL CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
- 21 CONSTRUCTION SITE SAFETY IS TO BE MAINTAINED AT ALL TIMES. ALL SUBCONTRACTORS SHALL REVIEW AND FOLLOW ALL OSHA REGULATIONS. ITEMS OF PARTICULAR CONCERN INCLUDE, BUT ARE NOT LIMITED TO: FALL PREVENTION, LADDER SAFETY, SCAFFOLDING, ELECTRICAL HAZARDS, TRENCHING AND EXCAVATION, AND TRIP HAZARDS. ALL JOBSITES WILL REQUIRE COMPLIANCE WITH THE SILICA STANDARD, OSHA 29 CFR 1926.1153.

NEWCO
Design Build LLC
4131 Roger B. Chaffee
Memphis Blvd. SE
Grand Rapids, MI 49508
(616) 493-4940 Tel.
(616) 493-4944 Fax
www.NewcoDB.com



ARCHITECT:
BRADFORD W. POTTER

PROJECT No.:
30-00630

DATE	ISSUED FOR
09/06/22	PERMIT
06/30/22	REVIEW AND PRICING
05/20/22	REVISED LAYOUT
05/03/22	PRELIM LAYOUT

DATE	ISSUED FOR

PROJECT NAME:
GROW FACILITY
LESLIE, MICHIGAN

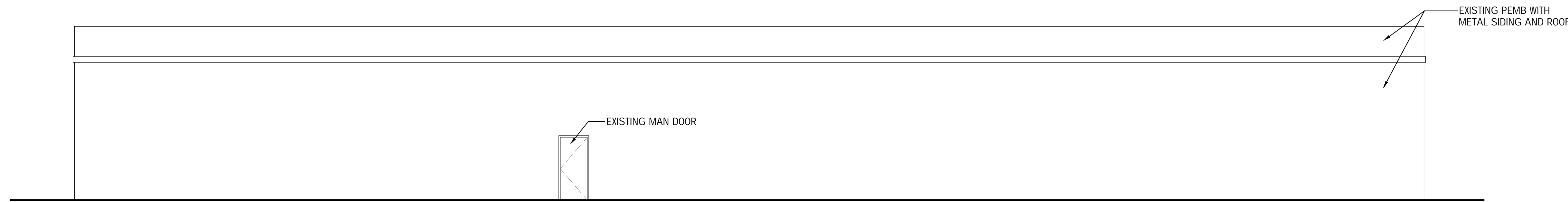
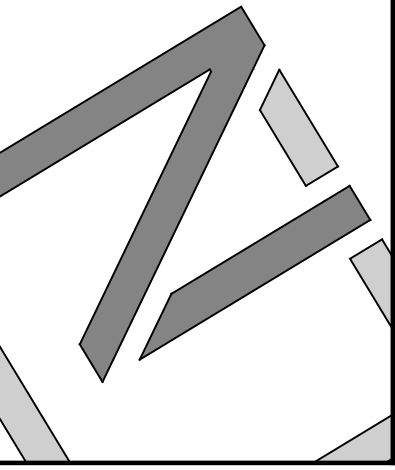
SHEET TITLE:
Main Floor Plan and Notes

SHEET No.:
A-1.1

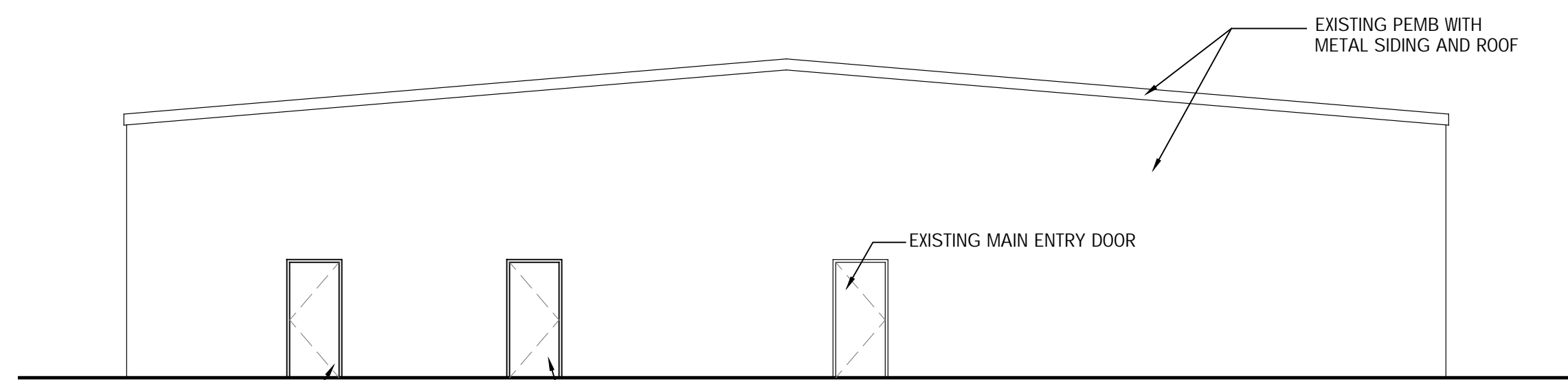
Exterior Elevation Notes:

1. MAIN FLOOR ELEVATIONS ARE 100'-0". REFER TO CIVIL DRAWINGS FOR CORRESPONDING ACTUAL ELEVATIONS.
2. REFER TO SHEET SERIES A-1 AND A-3 FOR DOOR AND WINDOW INFORMATION.
3. REFER TO ROOF PLAN AND BUILDING SECTIONS FOR EAVE DETAILS.
4. REFER TO PLUMBING, MECHANICAL AND ELECTRICAL SHEETS FOR EXTERIOR ITEMS.
5. CONSTRUCTION SITE SAFETY IS TO BE MAINTAINED AT ALL TIMES. ALL SUBCONTRACTORS SHALL REVIEW AND FOLLOW ALL OSHA REGULATIONS. ITEMS OF PARTICULAR CONCERN INCLUDE, BUT ARE NOT LIMITED TO: FALL PREVENTION, LADDER SAFETY, SCAFFOLDING, ELECTRICAL HAZARDS, TRENCHING AND EXCAVATION, AND TRIP HAZARDS. ALL JOBSITES WILL REQUIRE COMPLIANCE WITH THE SILICA STANDARD, OSHA 29 CFR 1926.1153.

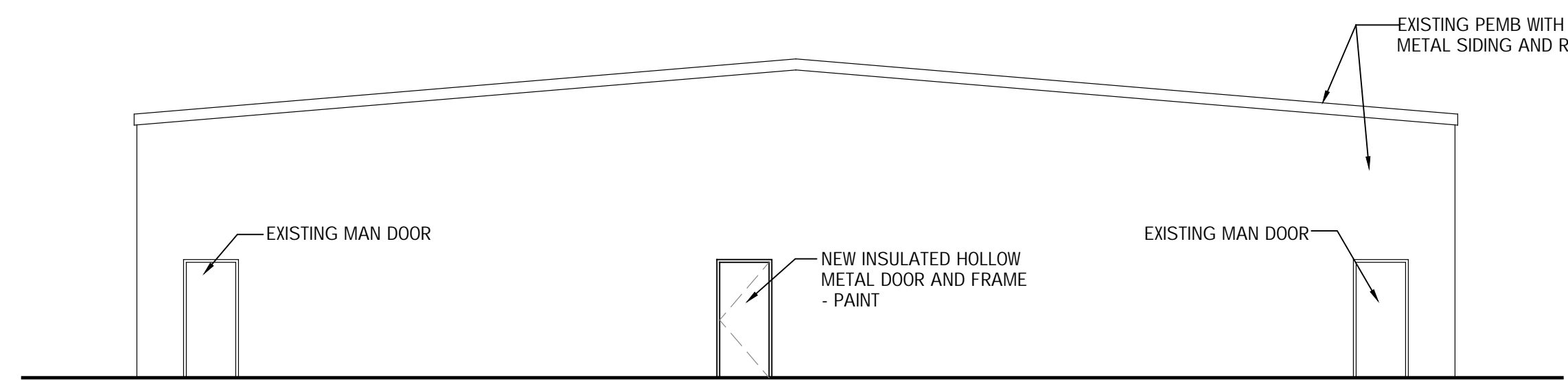
NEWCO
Design Build LLC
4131 Roger B Chaffee
Memorial Blvd. SE
Grand Rapids, MI 49508
(616) 493-9360 Tel.
(616) 493-9364 Fax
www.NewcoDB.com



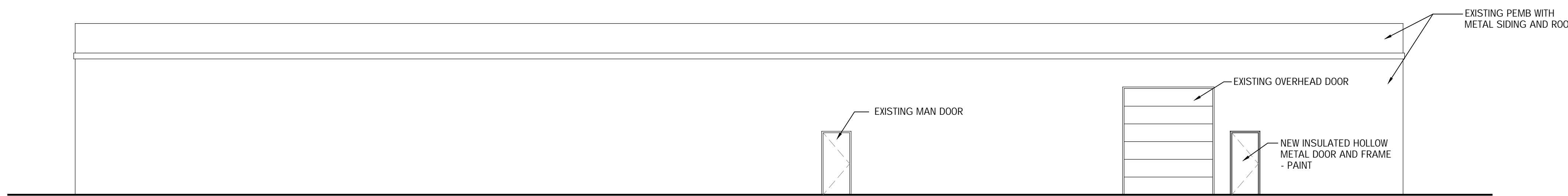
West Elevation
SCALE: 1/8" = 1'-0"



North Elevation
SCALE: 1/8" = 1'-0"



South Elevation
SCALE: 1/8" = 1'-0"



East Elevation
SCALE: 1/8" = 1'-0"

SEAL

ARCHITECT:
BRADFORD W. POTTER

PROJECT No:
30-00830

#	DATE	ISSUED FOR
	09/06/22	PERMIT
	06/30/22	REVIEW AND PRICING
	05/20/22	REVISED LAYOUT
	05/03/22	PRELIM LAYOUT

PROJECT NAME:
GROW FACILITY
LESLIE, MICHIGAN

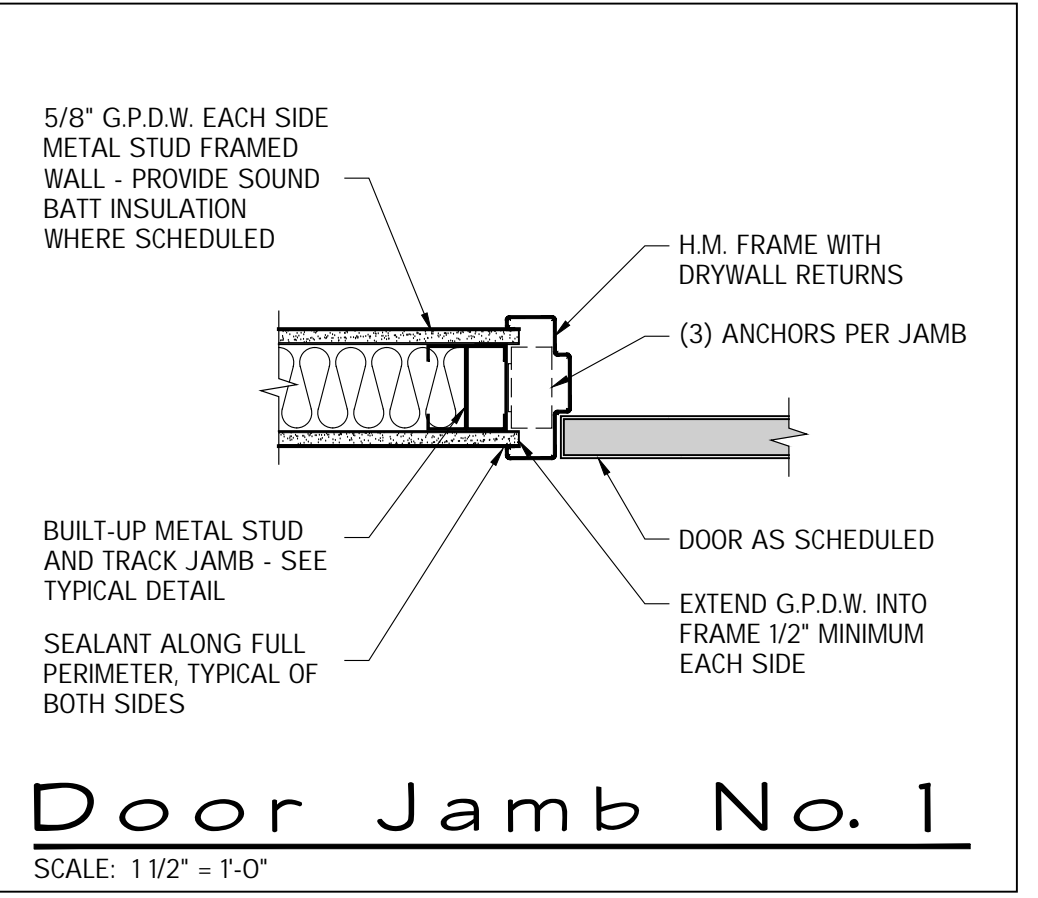
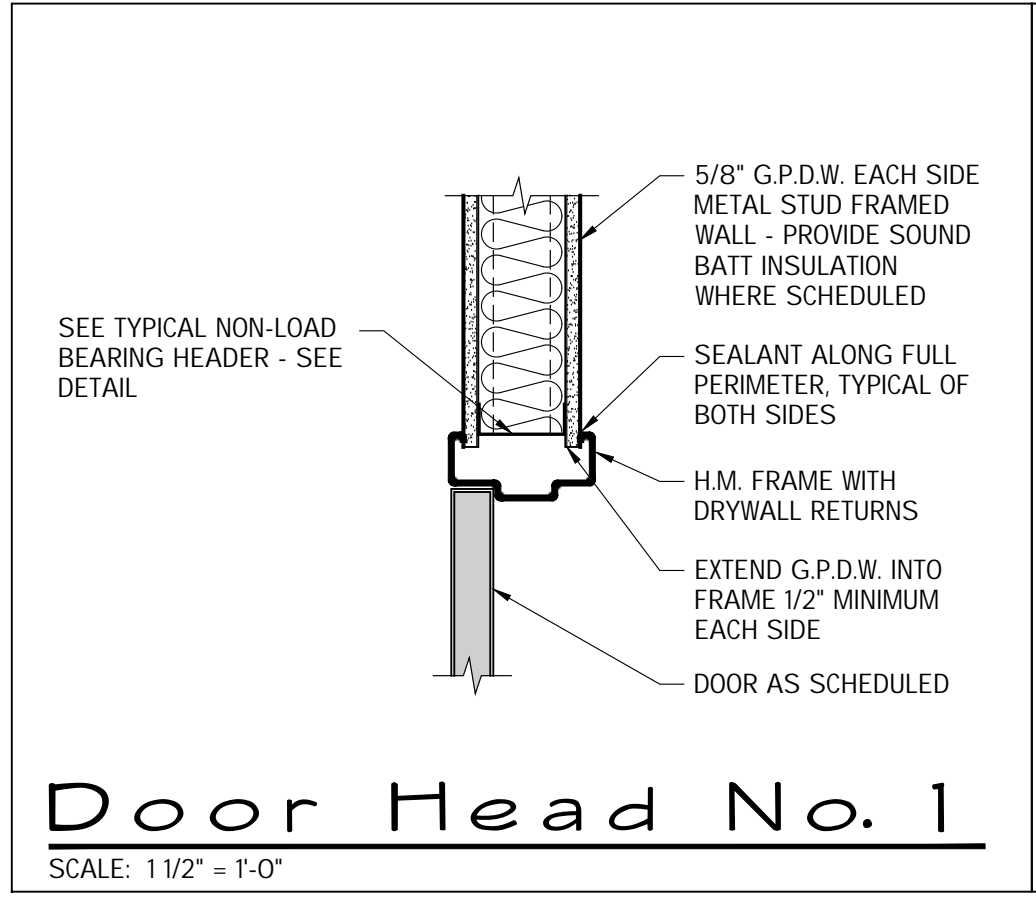
SHEET TITLE:
**Building Elevations, Notes,
and Details**

SHEET No.:
A-2.1

NO.	LOCATION	SIZE	DOOR			FRAME			LEL (MIN)	GLAZING	DETAILS		FDWE	REMARKS
			MAT.	TYPE	FIN.	MAT.	TYPE	FIN.			HEAD	JAMB		
100A	VESTIBULE	CARD READER 3'-0" x 7'-0" x 1 3/4"	EX	EX	EX	EX	EX	EX	---	EX	---	---	1	EXISTING DOOR - VERIFY CONDITION - REPLACE CORE
100B	VESTIBULE	3'-0" x 7'-0" x 1 3/4"	HM	A	PNT	HM	a	PNT	---	---	---	---	5	
101	HALL	3'-0" x 7'-0" x 1 3/4"	HM	A	PNT	HM	a	PNT	---	---	---	---	3	CARD READER
102	BREAK	3'-0" x 7'-0" x 1 3/4"	HM	A	PNT	HM	a	PNT	---	---	---	---	5	
103	WOMEN'S RESTROOM	3'-0" x 7'-0" x 1 3/4"	HM	A	PNT	HM	a	PNT	---	---	---	---	5	
104	MEN'S RESTROOM	3'-0" x 7'-0" x 1 3/4"	HM	A	PNT	HM	a	PNT	---	---	---	---	5	
105	OFFICE	3'-0" x 7'-0" x 1 3/4"	WD	A	PNT	HM	a	PNT	---	---	---	---	1	CARD READER
106	CONFERENCE	3'-0" x 7'-0" x 1 3/4"	WD	A	PNT	HM	a	PNT	---	---	---	---	1	CARD READER
107	DRY	3'-0" x 7'-0" x 1 3/4"	HM	A	PNT	HM	a	PNT	---	---	---	---	2	CARD READER
108	TRIM	3'-0" x 7'-0" x 1 3/4"	HM	A	PNT	HM	a	PNT	---	---	---	---	2	CARD READER
109	CURE	3'-0" x 7'-0" x 1 3/4"	HM	A	PNT	HM	a	PNT	---	---	---	---	2	CARD READER
111	NUTRIENT	3'-0" x 7'-0" x 1 3/4"	HM	A	PNT	HM	a	PNT	---	---	---	---	2	CARD READER
112	WATER	3'-0" x 7'-0" x 1 3/4"	HM	A	PNT	HM	a	PNT	---	---	---	---	2	INSULATED CARD READER
113	ELECTRICAL	3'-0" x 7'-0" x 1 3/4"	HM	A	PNT	HM	a	PNT	---	---	---	---	2	INSULATED CARD READER
114	JANITOR	3'-0" x 7'-0" x 1 3/4"	HM	A	PNT	HM	a	PNT	---	---	---	---	3	
115	SHIPPING	3'-0" x 7'-0" x 1 3/4"	HM	A	PNT	HM	a	PNT	---	---	---	---	1	CARD READER
116A	RECEIVING	3'-0" x 7'-0" x 1 3/4"	HM	A	PNT	HM	a	PNT	---	---	---	---	1	INSULATED CARD READER
116B	RECEIVING	10'-0" x 12'-0" x 1 3/4"	EX	G-1	EX	EX	EX	EX	---	---	---	---	---	EXISTING DOOR - VERIFY CONDITION, INSULATED - REPLACE CORE
117A	HALL	PR 3'-0" x 7'-0" x 1 3/4"	HM	A	PNT	HM	a	PNT	---	---	---	---	6	CARD READER
117B	HALL	PR 3'-0" x 7'-0" x 1 3/4"	HM	A	PNT	HM	a	PNT	---	---	---	---	6	CARD READER
118	SAFE	3'-6" x 7'-0" x 1 3/4"	HM	A	PNT	HM	a	PNT	---	---	---	---	---	VERIFY HARDWARE W/ OWNER CARD READER
119	PACKAGING	3'-6" x 7'-0" x 1 3/4"	HM	A	PNT	HM	a	PNT	---	---	---	---	3	CARD READER
120A	HALL	3'-0" x 7'-0" x 1 3/4"	EX	EX	EX	EX	EX	EX	---	EX	---	---	---	EXISTING DOOR - VERIFY CONDITION, INSULATED - REPLACE CORE
120B	HALL	3'-0" x 7'-0" x 1 3/4"	HM	A	PNT	HM	a	PNT	---	---	---	---	2	INSULATED
120C	HALL	3'-0" x 7'-0" x 1 3/4"	EX	EX	EX	EX	EX	EX	---	EX	---	---	---	EXISTING DOOR - VERIFY CONDITION, INSULATED - REPLACE CORE
121	CLONE	3'-6" x 7'-0" x 1 3/4"	HM	A	PNT	HM	a	PNT	---	---	---	---	2	CARD READER
122	MOTHER	3'-6" x 7'-0" x 1 3/4"	HM	A	PNT	HM	a	PNT	---	---	---	---	2	CARD READER
123	VEG	3'-6" x 7'-0" x 1 3/4"	HM	A	PNT	HM	a	PNT	---	---	---	---	2	CARD READER
124	VEG	3'-6" x 7'-0" x 1 3/4"	HM	A	PNT	HM	a	PNT	---	---	---	---	2	CARD READER
125	FLOWER	3'-6" x 7'-0" x 1 3/4"	HM	A	PNT	HM	a	PNT	---	---	---	---	2	CARD READER
126	FLOWER	3'-6" x 7'-0" x 1 3/4"	HM	A	PNT	HM	a	PNT	---	---	---	---	2	CARD READER
127	FLOWER	3'-6" x 7'-0" x 1 3/4"	HM	A	PNT	HM	a	PNT	---	---	---	---	2	CARD READER
128	LAB	3'-6" x 7'-0" x 1 3/4"	HM	A	PNT	HM	a	PNT	---	---	---	---	2	CARD READER
129	KITCHEN	3'-6" x 7'-0" x 1 3/4"	HM	A	PNT	HM	a	PNT	---	---	---	---	2	CARD READER

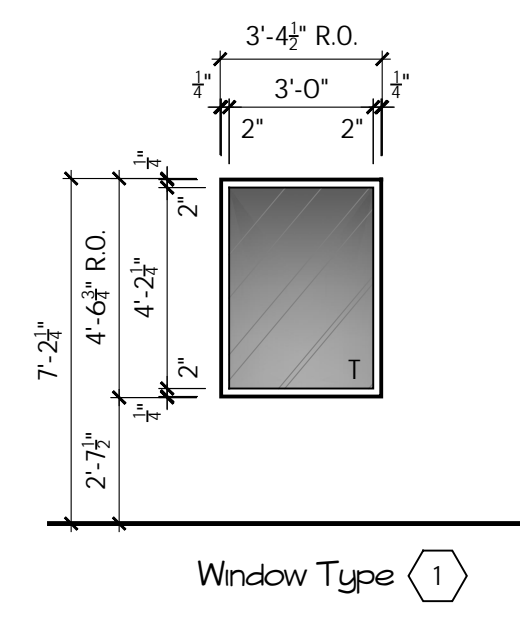
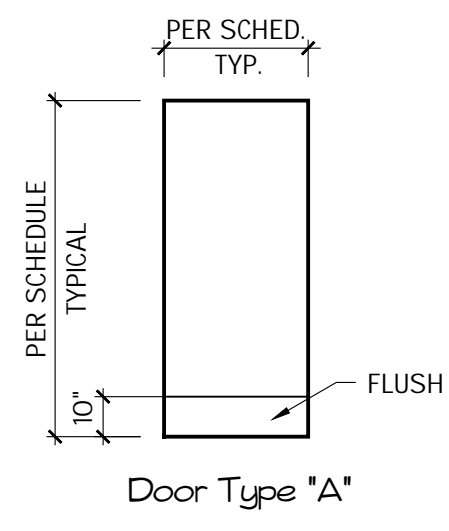
Door and Hardware Notes:

- EGRESS DOOR HARDWARE SHALL BE READILY OPENABLE FROM THE SIDE FROM WHICH EGRESS IS TO BE MADE WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE OR EFFORT.
- ALL DOORS SHALL HAVE HANDLES, PULLS, LATCHES, AND OTHER OPERATING DEVICES WHICH DO NOT REQUIRE THUMBURNS, TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. ALL DOOR HARDWARE SHALL BE NO HIGHER THAN 48" A.F.F.
- ALL DOOR HARDWARE MUST COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS.
- UNLESS NOTED OTHERWISE, ALL DOORS TO HAVE LEVER TYPE OPERATOR.
- CLOSER HARDWARE SHALL MEET ADA REQUIREMENTS, SECTIONS 404.2.7 FOR A DOOR CLOSING SPEED OF 5 SECONDS MINIMUM FROM 90 DEG. TO 12 DEG.
- DOOR OPENING FORCE FOR NON-FIRE DOORS SHALL MEET ADA REQUIREMENTS, SECTION 404.2.8, FOR AN OPERATING FORCE OF 5 LBS. MAX. AT INTERIOR HINGED DOORS. FIRE DOORS SHALL MEET THE MINIMUM FORCE PER THE LOCAL AUTHORITY HAVING JURISDICTION.
- DOOR OPENING FORCE FOR DOORS SHALL MEET 2015 MICHIGAN CODE REQUIREMENTS, SECTION 1008.1.3, FOR AN OPERATING FORCE OF 5 LBS. MAX. AT INTERIOR HINGED DOORS. OTHER SIDE-HINGED SWINGING, SLIDING, AND FOLDING DOORS MUST RELEASE THE LATCH WITH A 15 LB. FORCE. BE SET IN MOTION WITH A 30 LB. FORCE, AND SWING TO THE FULL OPEN POSITION WITH A 15 LB. FORCE FROM THE LATCH SIDE OF THE DOOR.
- ALL LOCKSETS TO BE KEYPED SEPARATELY.
- THE UNLATCHING OF ANY DOOR OR LEAF SHALL NOT REQUIRE MORE THAN ONE OPERATION.
- ALL HARDWARE TO BE US260, SATIN CHROMIUM FINISH, U.N.O.
- PROVIDE SOLID WOOD BLOCKING DOOR REINFORCING AS REQUIRED FOR HARDWARE COMPONENTS. COORDINATE MOUNTING TEMPLATES WITH DOOR MANUFACTURER.
- PROVIDE FLOOR ANCHORS AT ALL HOLLOW METAL FRAMES.
- ALL FRAMES SHALL HAVE 3 ANCHORS PER JAMB.
- FIELD VERIFY ACTUAL DIMENSIONS OF OPENINGS IN EXISTING CONSTRUCTION PRIOR TO FABRICATION OF WINDOW AND DOOR UNITS AND FRAMES. VERIFY THE REQUIRED ROUGH OPENING DIMENSIONS FOR WINDOW AND DOOR UNITS IN NEW CONSTRUCTION.
- PROVIDE ADEQUATE BARRIER AGAINST THE ELECTROLYTIC ACTION BETWEEN DISSIMILAR TYPES OF METALS THAT MAY COME INTO CONTACT WITH EACH OTHER.
- PROVIDE ASPHALTIC COATING TO INTERIOR OF HOLLOW METAL FRAMES WHERE NOTED TO BE GROUTED SOLID.
- CAULK PERIMETERS OF ALL DOOR FRAMES, BOTH SIDES.
- DOORS SHALL HAVE HINGES AS FOLLOWS:
 - UNDER 96" H - 3 HINGES N.R.P.
 - 96" H DOOR - 4 HINGES PER LEAF
- ALIGN CENTERS OF DOORS IN SERIES UNLESS NOTED OTHERWISE.
- WOOD DOORS TO BE TYPE L2, 5 PLY SOLID CORE, WITH GRADE 'A' PLAIN SLICED WHITE MAPLE VENEER BOOK MATCHED FACE, RUNNING MATCH.
- WOOD VENEER DOORS TO HAVE PAIR MATCH VENEERS FOR PAIRED DOORS AND SET MATCH VENEERS FOR PAIRED DOORS IN ADJACENT SETS.
- ALL B.F. DOORS TO BE INDICATED WITH THE BARRIER FREE SYMBOL OF COMPLIANCE - SEE DETAIL ON CODE SUMMARY AND GENERAL NOTES SHEET FOR MOUNTING LOCATION.
- REFER TO MECHANICAL DRAWINGS FOR UNDERCUT DOORS AS REQUIRED.
- CONSTRUCTION SITE SAFETY IS TO BE MAINTAINED AT ALL TIMES. ALL SUBCONTRACTORS SHALL REVIEW AND FOLLOW ALL OSHA REGULATIONS. ITEMS OF PARTICULAR CONCERN INCLUDE, BUT ARE NOT LIMITED TO: FALL PREVENTION, LADDER SAFETY, SCAFFOLDING, ELECTRICAL HAZARDS, TRENCHING AND EXCAVATION, AND TRIP HAZARDS. ALL JOBSITES WILL REQUIRE COMPLIANCE WITH THE SILICA STANDARD, OSHA 29 CFR 1926.1153.



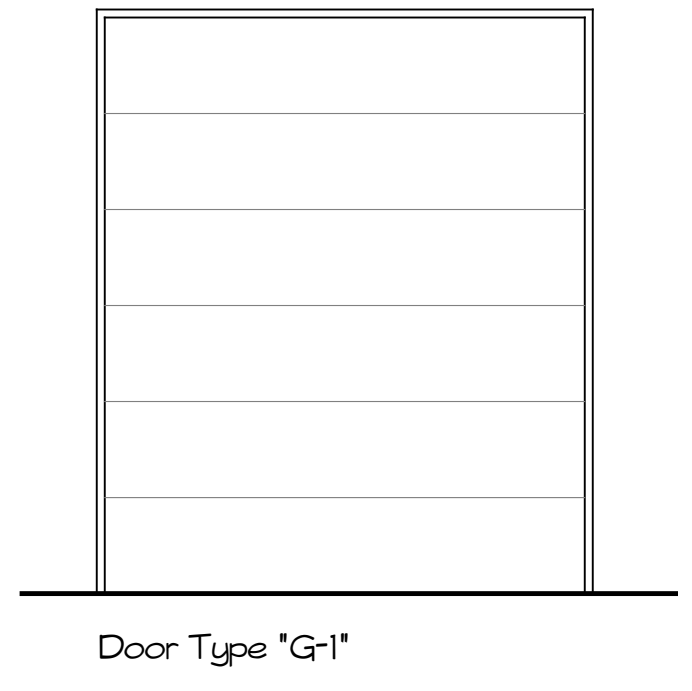
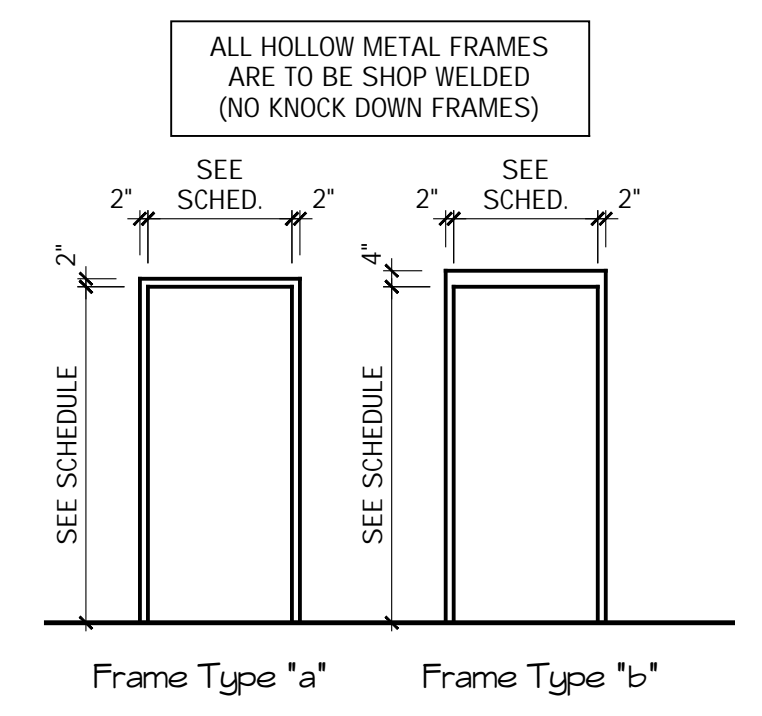
Hardware Sets:

- SET NO. 1
 - (1) OFFICE SET
 - (3) HINGES
 - (1) CLOSER
 - (1) WALL STOP
 - (1) SILENCERS
- SET NO. 2
 - (1) STOREROOM SET
 - (3) HINGES N.R.P.
 - (1) CLOSER
 - (1) WALL STOP
 - (2) KICK PLATE
 - (1) BOTTOM SWEEP
 - WEATHERSTRIPPING
 - SILENCERS
- SET NO. 3
 - (1) STOREROOM SET
 - (3) HINGES N.R.P.
 - (1) CLOSER
 - (1) WALL STOP
 - (2) KICK PLATES
 - SILENCERS
- SET NO. 4
 - (1) STOREROOM SET
 - (3) HINGES N.R.P.
 - (1) CLOSER
 - (1) OVERHEAD STOP
 - SILENCERS
- SET NO. 5
 - (1) PASSAGE SET
 - (3) HINGES
 - (1) CLOSER
 - (1) WALL STOP
 - SILENCERS
- SET NO. 6
 - (2) STOREROOM SET
 - (2) SETS OF 3 HINGES N.R.P.
 - (3) HINGES
 - (1) WALL STOP / OVERHEAD STOP
 - (2) BOTTOM SWEEP
 - (2) KICK PLATES EACH
 - WEATHERSTRIPPING
 - SILENCERS



Door Types
SCALE: 1/4" = 1'-0"

Window Framing Types
SCALE: 1/4" = 1'-0"



Door Framing Types
SCALE: 1/4" = 1'-0"

O.H. Door Type
SCALE: 1/4" = 1'-0"

NEWCO
Design Build LLC
4131 Roger B. Chaffee
Memorial Blvd. SE
Grand Rapids, MI 49548
(616) 493-9360 Tel.
(616) 493-9364 Fax
www.NewcoDB.com

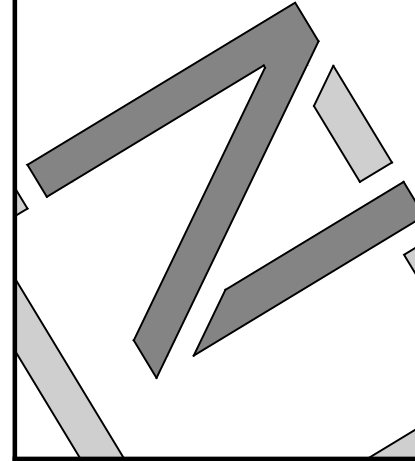
ARCHITECT:
BRADFORD W. POTTER

PROJECT No.:
30-00830

#	DATE	ISSUED FOR
09/06/22	PERMIT	
06/30/22	REVIEW AND PRICING	
05/20/22	REVISED LAYOUT	
05/03/22	PRELIM LAYOUT	

PROJECT NAME:
GROW FACILITY
LESLIE, MICHIGAN

SHEET TITLE:
Door Schedule and Miscellaneous Details

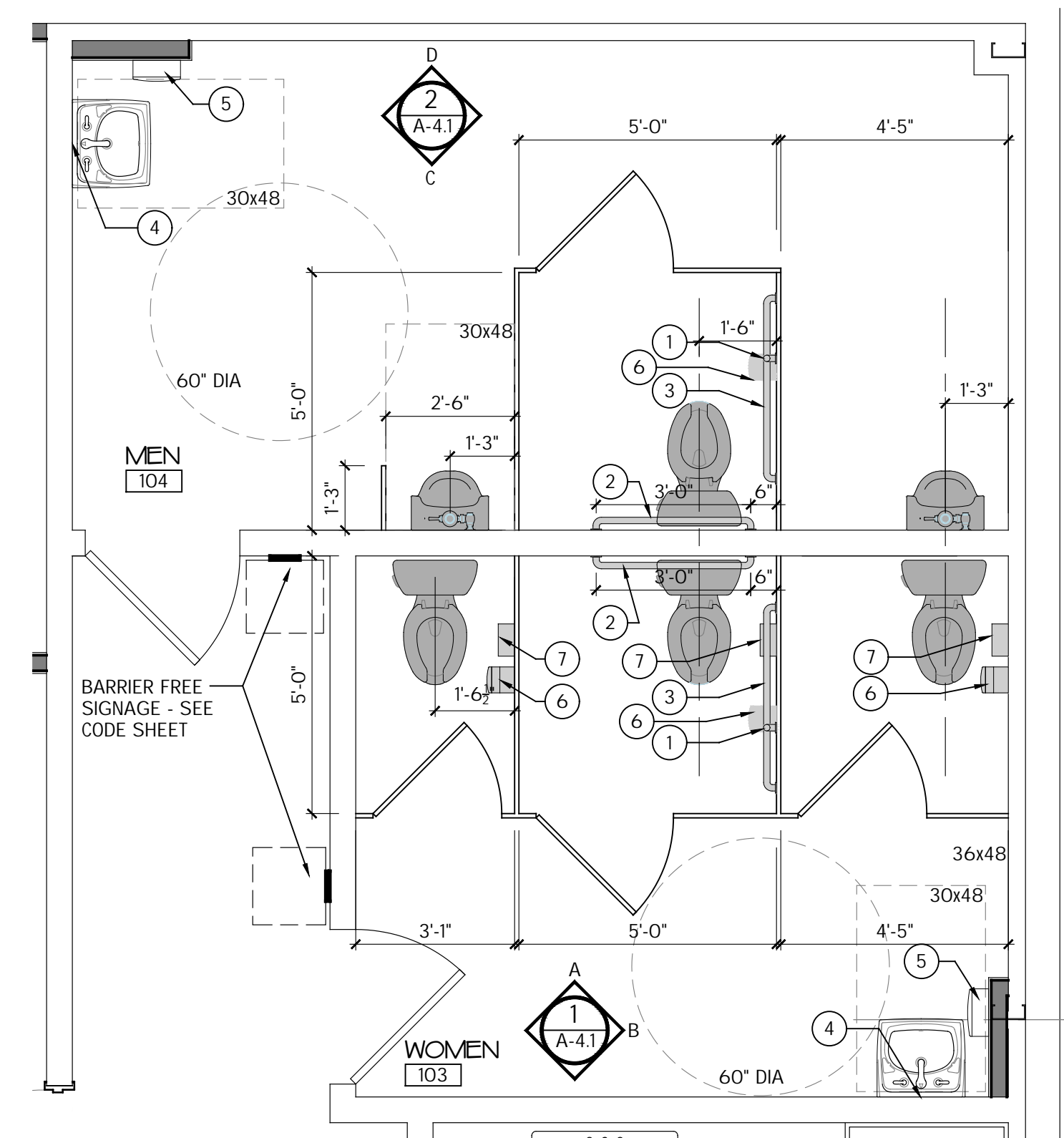
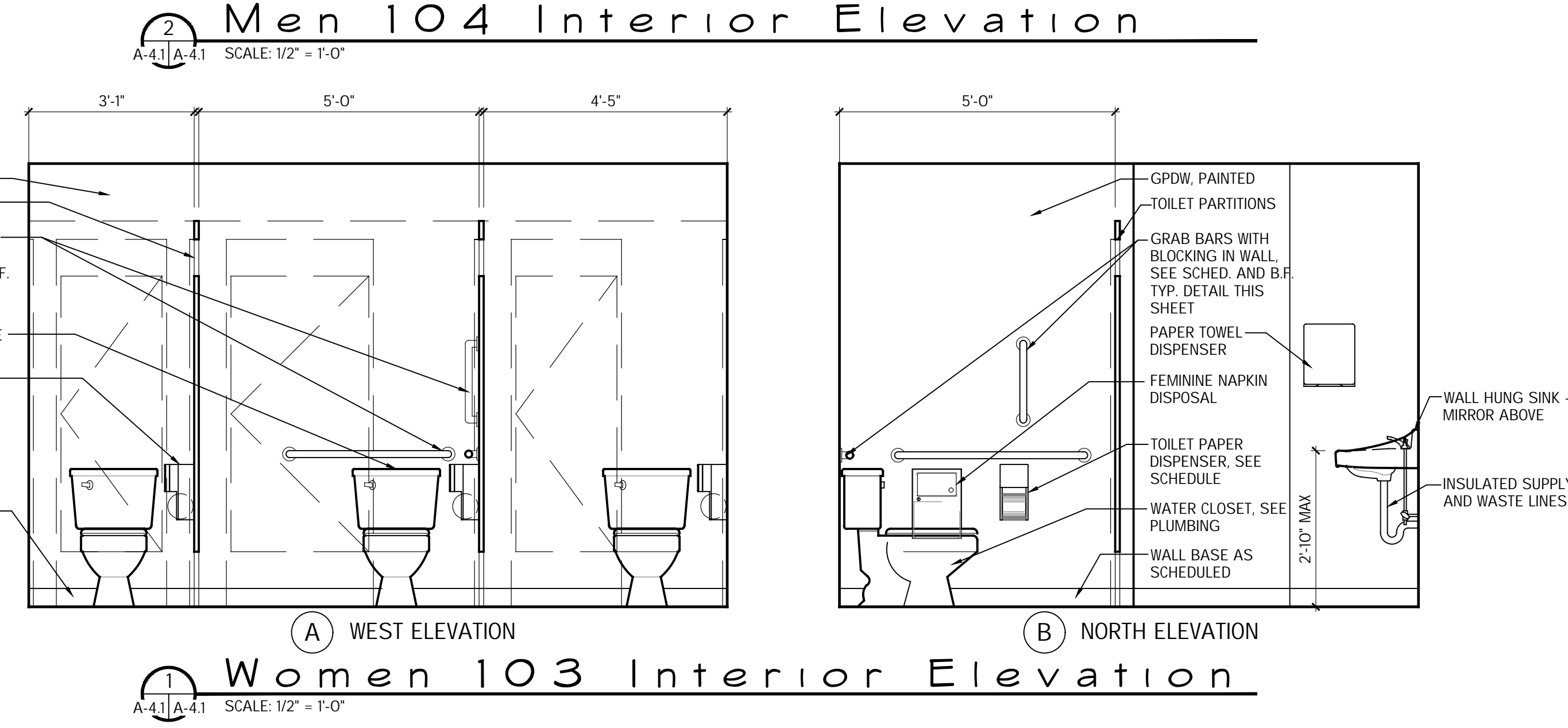
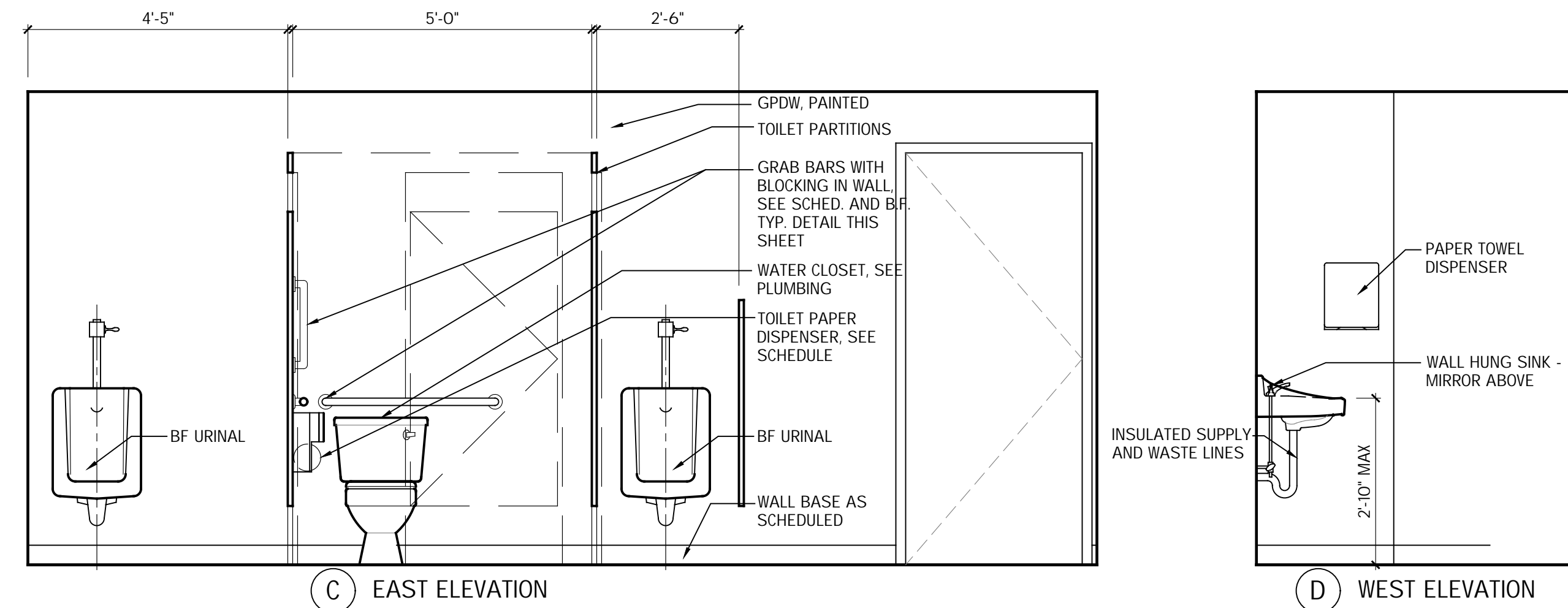


ARCHITECT:	BRADFORD W. POTTER
PROJECT No.:	30-00830

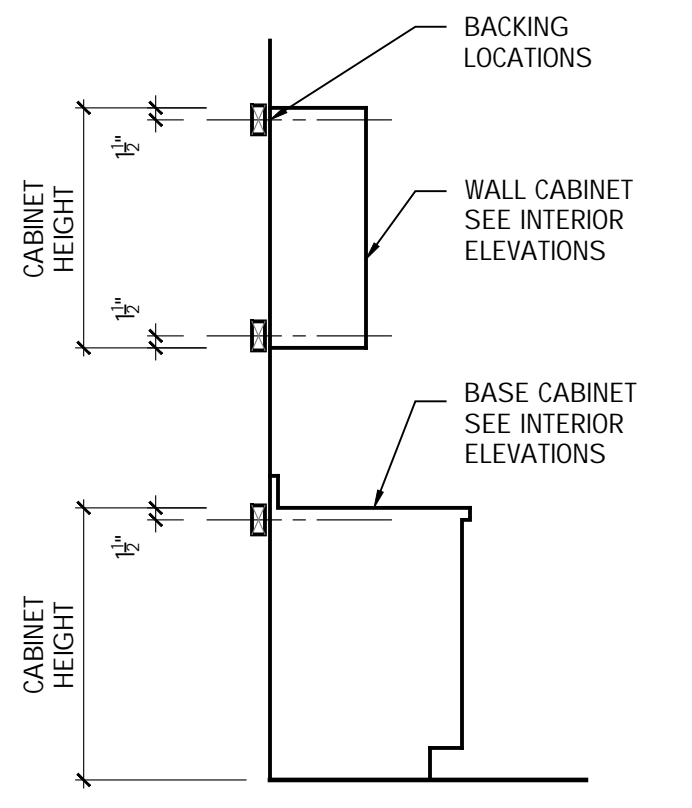
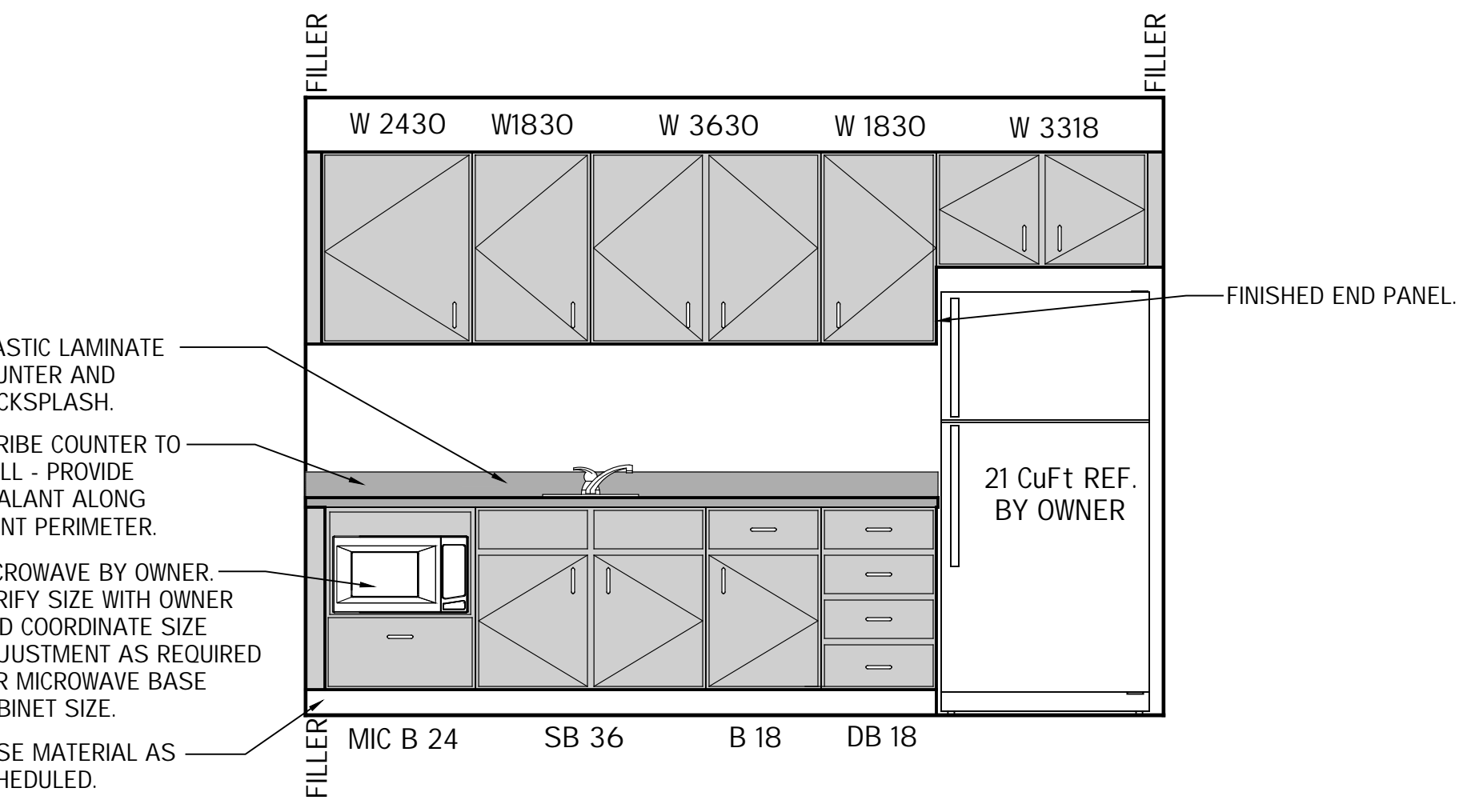
#	DATE	ISSUED FOR
09/06/22	PERMIT	
06/30/22	REVIEW AND PRICING	
05/20/22	REVISED LAYOUT	
05/03/22	PRELIM LAYOUT	

PROJECT NAME:	GROW FACILITY LESLIE, MICHIGAN
SHEET TITLE:	Interior Elevations, Notes, and Details
SHEET No.:	A-4.1

- Interior Elevation Notes:**
- DIMENSIONS ARE TO INTERIOR FACE OF G.P.D.W. AND TOP OF FINISH FLOOR.
 - PROVIDE BLOCKING IN WALL AS REQ'D FOR MILL-WORK AND WALL MOUNTED ACCESSORIES.
 - PLUMBING ACCESSORIES SUCH AS GRAB BARS SHALL BE INSTALLED AND SEALED TO PROTECT WALL FROM MOISTURE.
 - FIELD VERIFY ALL ROOM CLEAR FINISH DIMENSIONS PRIOR TO FABRICATION OF MILL-WORK.
 - MAINTAIN MINIMUM CLEARANCES FROM TOP OF WALL CABINETS AND OPEN SHELVING TO THE UNDERSIDE OF THE FINISH CEILING AT 24" IN NON-SPRINKLERED BUILDINGS AND OF 18" TO BOTTOM OF SPRINKLER HEADS IN SPRINKLERED BUILDINGS.
 - PROVIDE SCHEDULED ROOM FLOOR BASE AROUND BOTTOM OF CABINETS UNLESS NOTED OTHERWISE.
 - PROVIDE CASEWORK FILLER PANELS AT ALL LOCATIONS OF CASEWORK HAVING DOORS THAT ARE ADJACENT TO WALLS. ALL CASEWORK FILLER PANELS TO MATCH ADJACENT CABINETS.
 - PROVIDE FINISHED END PANELS MATCHING ADJACENT CABINETS WHERE CASEWORK ENDS ARE EXPOSED TO VIEW.
 - PROVIDE ACCESS FOR PLUMBING IN BASE CABINETS WHERE NECESSARY. COORDINATE WITH PLUMBING REQUIREMENTS.
 - MANUFACTURER: MERILAT
DESIGN SERIES: CLASSIC
WOOD SPECIES: MAPLE
DOOR STYLE: FUSION
 - PROVIDE SEALANT AT ALL INTERSECTIONS OF MILL-WORK AND COUNTERTOPS TO ADJACENT WALLS.
 - ALL BACKSPLASH AT COUNTERTOPS TO BE 4" HIGH U.N.O. AND PROVIDE END RETURNS WHERE COUNTER IS AGAINST AN END WALL.
 - COUNTERTOPS WITHOUT BACKSPLASH TO BE SCRIBED TO THE WALL AS REQUIRED FOR TIGHT FIT.
 - REFER TO FINISHES SHEET NOTES FOR ADDITIONAL REQUIREMENTS.
 - CONSTRUCTION SITE SAFETY IS TO BE MAINTAINED AT ALL TIMES. ALL SUBCONTRACTORS SHALL REVIEW AND FOLLOW ALL OSHA REGULATIONS. ITEMS OF PARTICULAR CONCERN INCLUDE, BUT ARE NOT LIMITED TO: FALL PREVENTION, LADDER SAFETY, SCAFFOLDING, ELECTRICAL HAZARDS, TRENCHING AND EXCAVATION, AND TRIP HAZARDS. ALL JOBSITES WILL REQUIRE COMPLIANCE WITH THE SILICA STANDARD, OSHA 29 CFR 1926.1153.

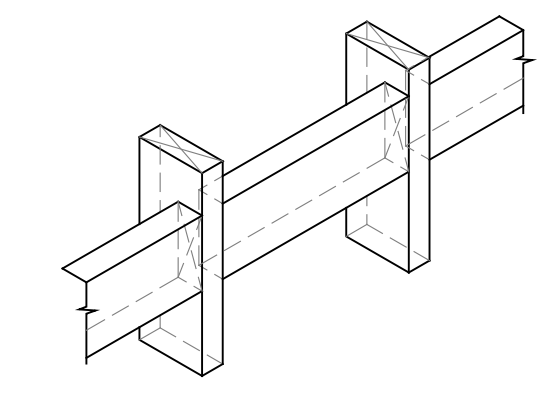


- B.F. Accessories**
- TOILET ROOM ACCESSORIES WHERE APPLICABLE SHALL BE MANUFACTURED BY ASI, BOBRICK, OR BRADLEY AS FOLLOWS:
(ASI NUMBERS SHOWN - ROVAL SUITE)
- GRAB BARS
380x18 (VERTICAL)
 - 380x36 (HORIZONTAL)
 - 380x42 (HORIZONTAL)
 - MIRRORS
8287 SERIES W/ BEVELED EDGE
 - TOWEL DISPENSER/DISPOSAL
(SURFACE - DISPENSER ONLY)
20210
 - TOILET PAPER DISPENSER
20030 (DOUBLE)
 - FEMININE NAPKIN DISPOSAL
20852
- MOP RACK
1308x33 - 3 MOP HOOKS

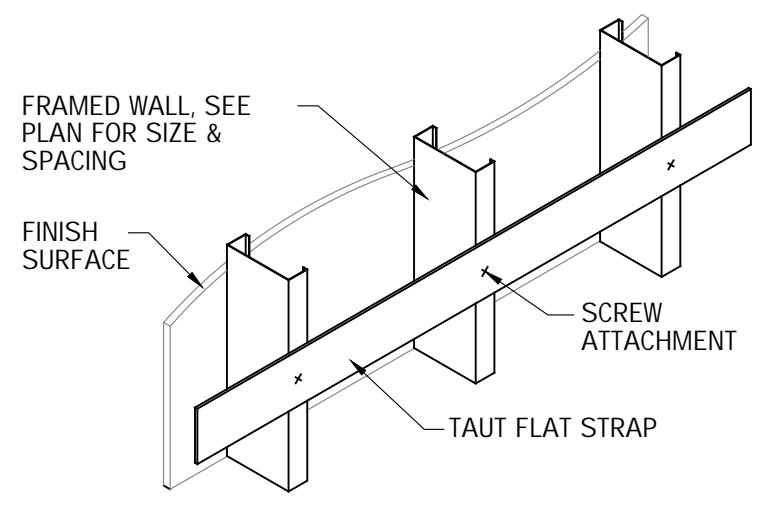


BACKING LOCATIONS
WALL CABINET SEE INTERIOR ELEVATIONS
BASE CABINET SEE INTERIOR ELEVATIONS

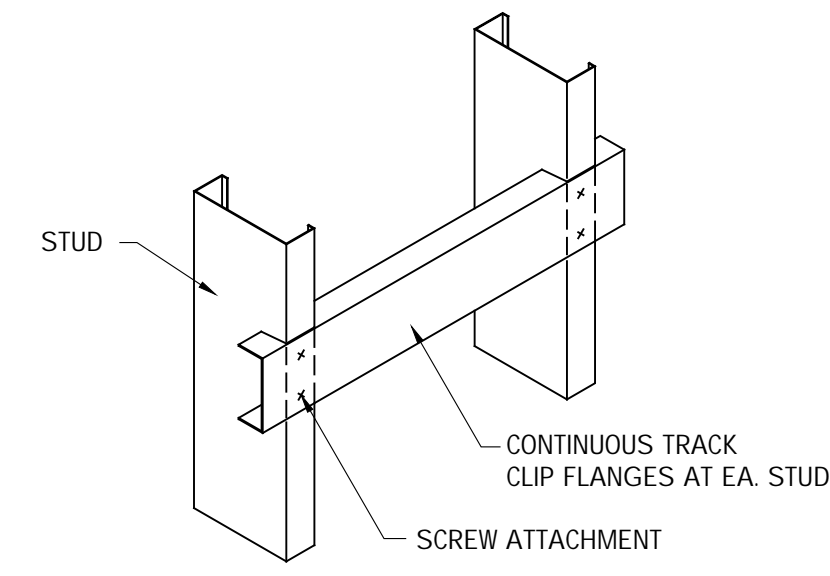
2x BLOCKING MATCH WALL TYPE AS OCCURS - MOUNT FLUSH TO STUDS WITH (3) FASTENERS. EXTEND TO NEAREST STUD BEYOND MOUNTED ITEM. TYPICAL @ GRAB BARS, AND UPPER CASEWORK. PROVIDE 6" X 16 GA. STL. STRAPPING IN LIEU OF STUD BACKING @ TLT. ACCESSORIES, LOWER CASEWORK & FULL HEIGHT CASEWORK. SEE SHEET A1.1 FOR WALL TYPES.



FRAMED WALL, SEE PLAN FOR SIZE & SPACING
FINISH SURFACE
SCREW ATTACHMENT
TAUT FLAT STRAP



STUD
CONTINUOUS TRACK CLIP FLANGES AT EA. STUD
SCREW ATTACHMENT



PLASTIC LAMINATE COUNTER AND BACKSPLASH.
SCRIBE COUNTER TO WALL - PROVIDE SEALANT ALONG JOINT PERIMETER.
MICROWAVE BY OWNER - VERIFY SIZE WITH OWNER AND COORDINATE SIZE ADJUSTMENT AS REQUIRED FOR MICROWAVE BASE CABINET SIZE.
BASE MATERIAL AS SCHEDULED.

Building Section Notes:

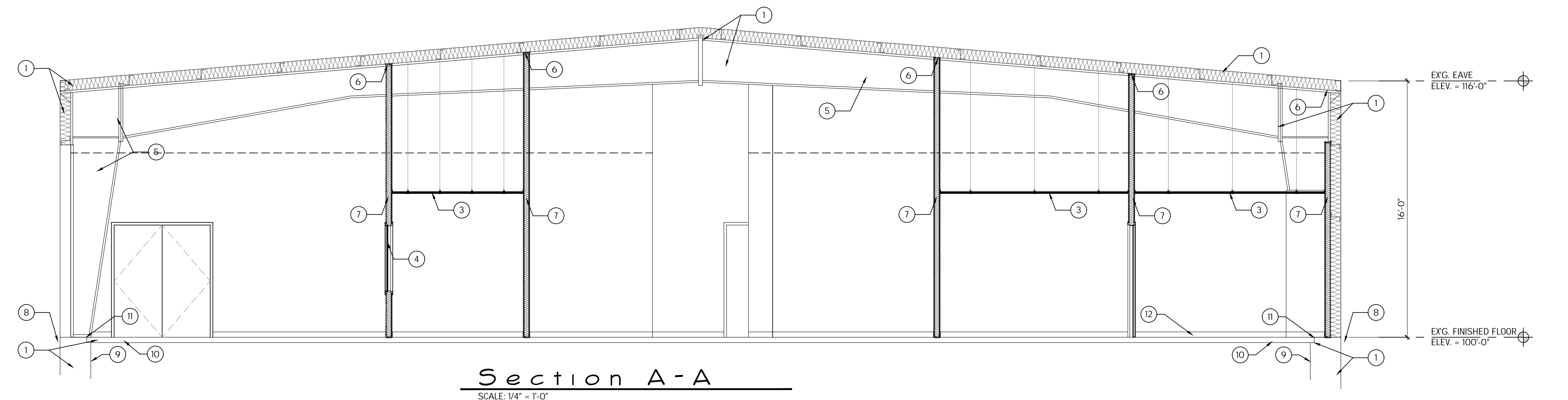
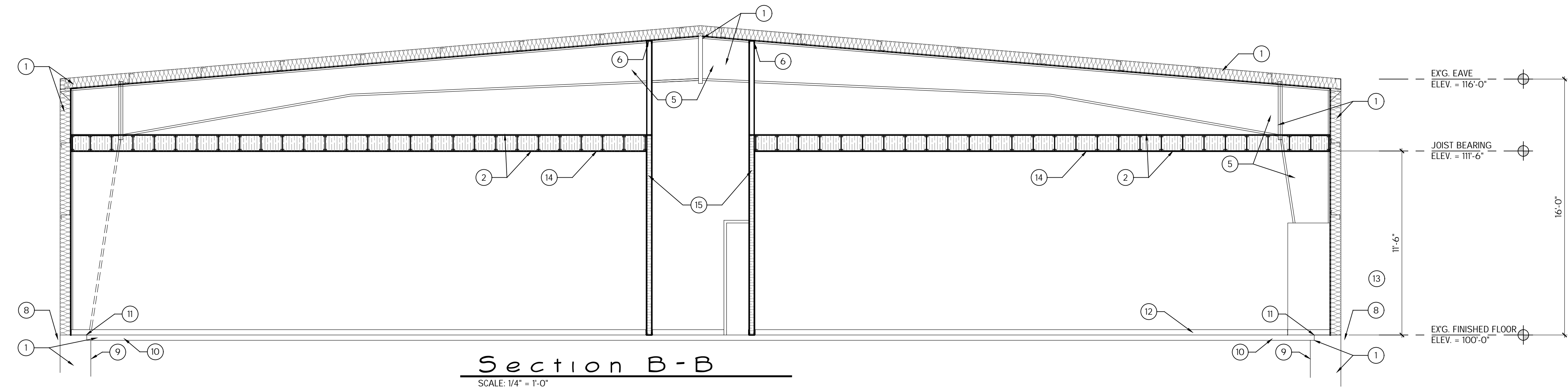
1. MAIN FLOOR ELEVATIONS ARE 100'-0". REFER TO CIVIL DRAWINGS FOR CORRESPONDING ACTUAL ELEVATIONS.
2. REFER TO SHEET SERIES A-1 AND A-3 FOR DOOR AND WINDOW INFORMATION.
3. FOR CLARITY, NOT ALL INTERIOR FINISHES AND CONDITIONS ARE SHOWN.
4. FOR CLARITY, NOT ALL INTERIOR CASEWORK AND MILLWORK IS SHOWN.
5. IF A CONFLICT OR DISCREPANCY OCCURS BETWEEN STRUCTURAL, ARCHITECTURAL, PLUMBING, MECHANICAL OR ELECTRICAL, CONTACT ARCHITECT FOR CLARIFICATION.
6. CONSTRUCTION SITE SAFETY IS TO BE MAINTAINED AT ALL TIMES. ALL SUBCONTRACTORS SHALL REVIEW AND FOLLOW ALL OSHA REGULATIONS. ITEMS OF PARTICULAR CONCERN INCLUDE, BUT ARE NOT LIMITED TO: FALL PREVENTION, LADDER SAFETY, SCAFFOLDING, ELECTRICAL HAZARDS, TRENCHING AND EXCAVATION, AND TRIP HAZARDS. ALL JOBSITES WILL REQUIRE COMPLIANCE WITH THE SILICA STANDARD, OSHA 29 CFR 1926.1153.

Keyed Notes:

- 1 EXISTING PRE-ENGINEERED METAL BUILDING, FOUNDATIONS, SLAB, INSULATION, INTERIOR LINER PANELS, EXTERIOR TRIM, FLASHINGS, SOFFIT, AND SEALANT
- 2 PRE-FINISHED METAL LINER PANEL
- 3 DROP CEILING AS SCHEDULED
- 4 METAL FRAMED WINDOW
- 5 P.E.M.B. STRUCTURE - PAINT WHERE EXPOSED
- 6 PROVIDE SLOTTED DEFLECTION TRACK AND BENT METAL PLATES AT TOP OF WALLS - REFER TO MANUF STANDARD DETAILS
- 7 METAL STUD WITH BATT INSULATION AND GYP BOARD FINISH - PAINT
- 8 SLOPE GRADE TO DRAIN AWAY FROM BUILDING
- 9 EXISTING RIGID INSULATION TO TOP OF FOOTING - MIN R-7.5
- 10 EXISTING 4" POURED CONCRETE SLAB WITH REINFORCING ON 6 MIL POLYETHYLENE VAPOR RETARDER ON MIN. 6" COMPACTED SAND FILL - MINIMUM R-15 INSULATION UNDER SLAB FOR 24" MINIMUM - PROVIDE MESH SUPPORTS - DO NOT PUNCTURE VAPOR BARRIER - TAPE JOINTS
- 11 1/2" EXPANSION MATERIAL
- 12 WALL BASE TRIM AS SCHEDULED
- 13 PROVIDE RIGID INSULATION THERMAL BREAK UNDER EXTERIOR THRESHOLDS
- 14 11-7/8" TJI OR AS REVISED PER STRUCTURAL SHOP DRAWINGS - @ 16" O.C. - FILL WITH ROCKWOOL BATT INSULATION - PROVIDE PREFINISHED METAL LINER PANEL TOP AND BOTTOM - RUN PERPENDICULAR TO JOISTS
- 15 3-5/8" METAL LOAD BEARING STUDS - OR AS REVISED PER STRUCTURAL SHOP DRAWINGS - @ 16" O.C. - FILL WITH ROCKWOOL BATT INSULATION - PROVIDE PREFINISHED METAL LINER PANEL EACH SIDE - NO PANEL REQUIRED OVER UPPER PORTION OF CEILING CONSTRUCTION

CONCRETE PLACED DURING FREEZING OR NEAR-FREEZING WEATHER SHALL BE MAINTAINED ABOVE 50° F AND IN A MOIST CONDITION FOR THE FIRST SEVEN DAYS BY USE OF TENTING AND PROPANE HEATERS.

CONCRETE MATERIALS, REINFORCEMENT, FORMS, FILLERS, AND GROUND WITH WHICH THE CONCRETE IS TO COME IN CONTACT WITH SHALL BE FREE OF FROST. FROZEN MATERIALS AND MATERIALS CONTAINING ICE SHALL NOT BE USED.



NEWCO
Design - Build LLC

4131 Roger B Chaffee
Memorial Blvd. SE
Grand Rapids, MI 49548
(616) 493-9360 Tel.
(616) 493-9364 Fax
www.NewcoDB.com

ARCHITECT:
BRADFORD W. POTTER

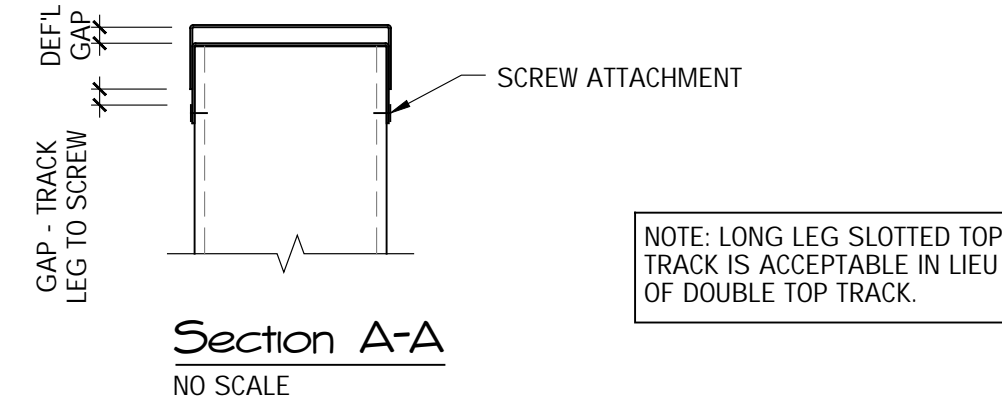
PROJECT No.:
30-00830

#	DATE	ISSUED FOR
09/06/22	PERMIT	
06/30/22	REVIEW AND PRICING	
05/20/22	REVISED LAYOUT	
05/03/22	PRELIM LAYOUT	

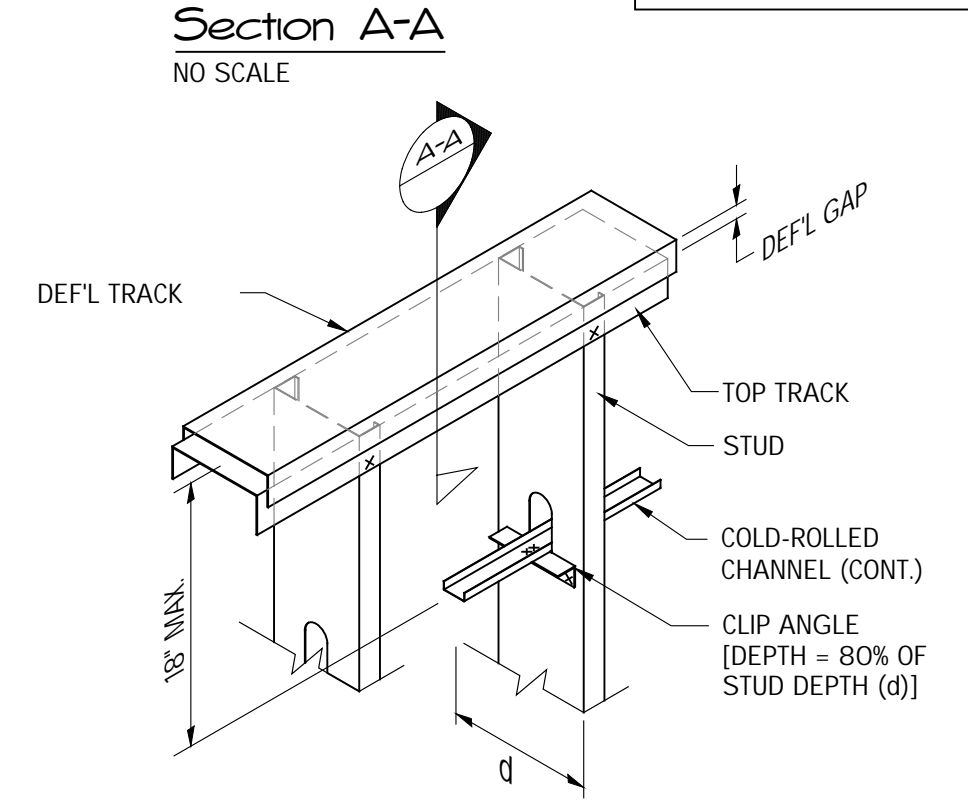
PROJECT NAME:
GROW FACILITY
LESLIE, MICHIGAN

SHEET TITLE:
Building Sections

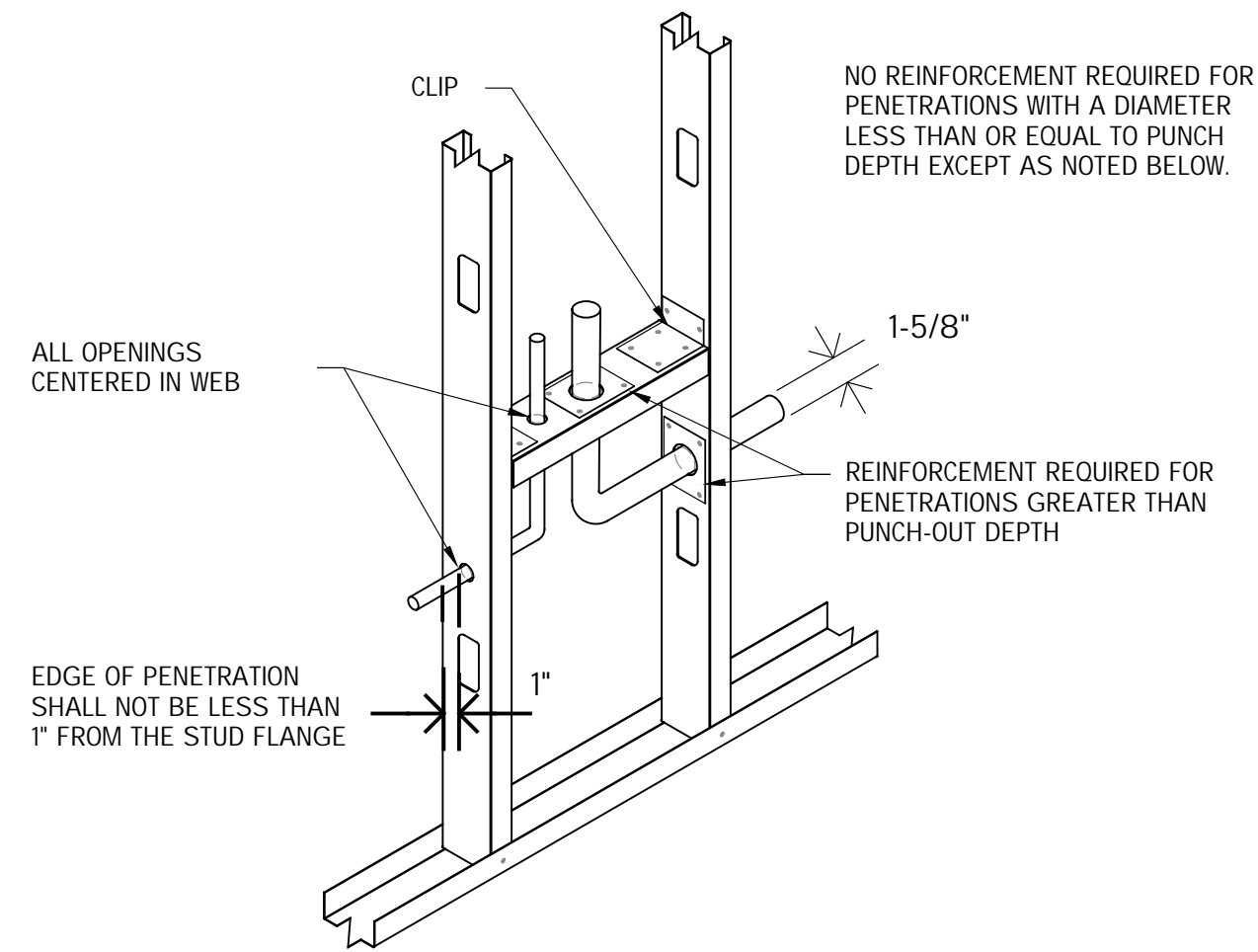
SHEET No.:
A-5.1



NOTE: LONG LEG SLOTTED TOP TRACK IS ACCEPTABLE IN LIEU OF DOUBLE TOP TRACK.

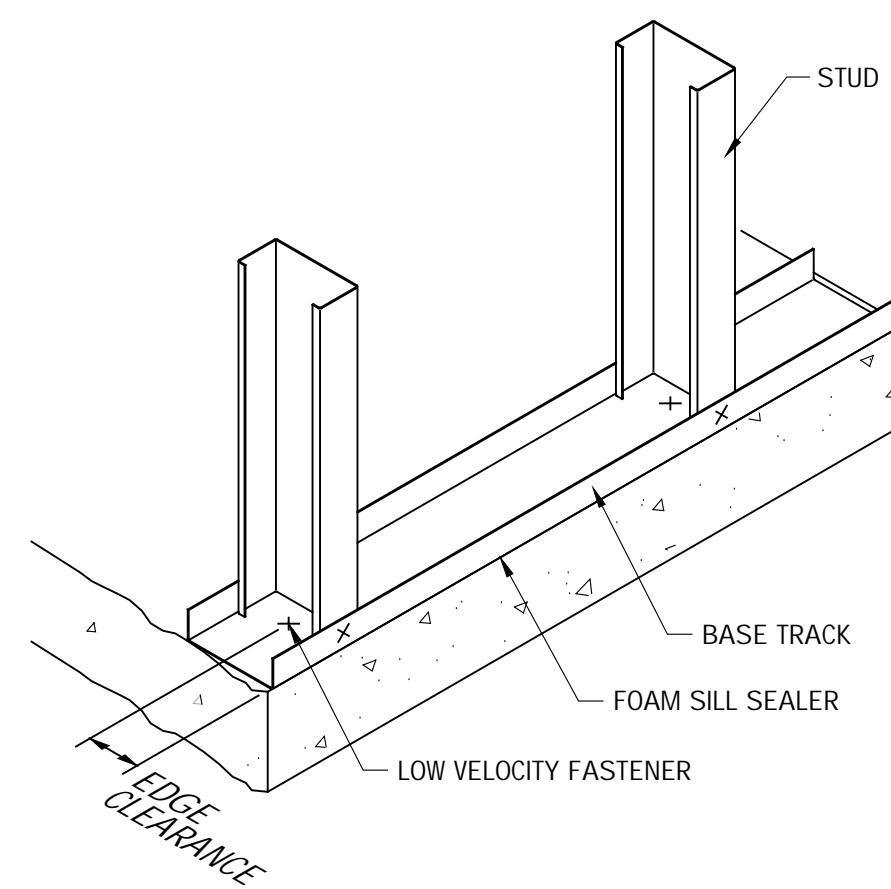


Typical Metal Stud Deflection Track Assembly
NO SCALE

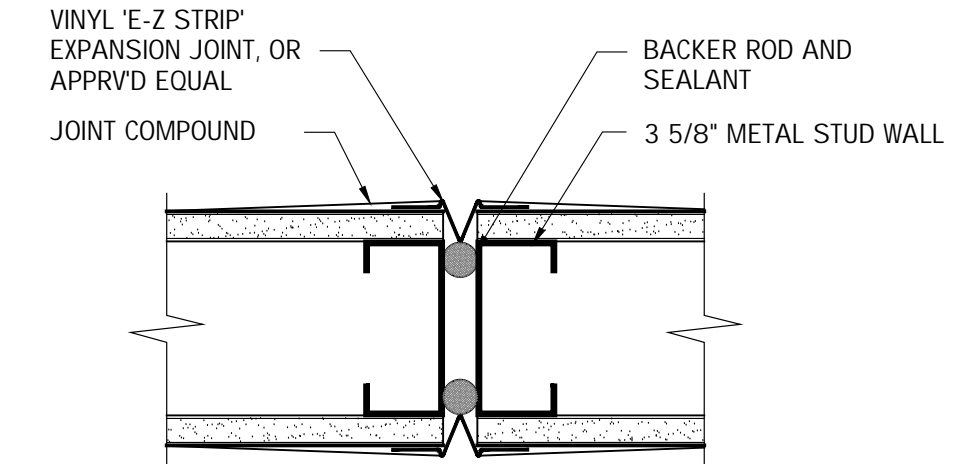


- NOTES:**
1. FLANGES SHALL NOT BE NOTCHED OR CUT.
 2. CAPACITY VERIFICATION BY DESIGN IS REQUIRED FOR ANY OPENINGS LOCATED AT AXIALLY LOAD STUDS AND BEARING ENDS.
 3. DETAIL APPLICABLE TO TRACK AND STUDS.

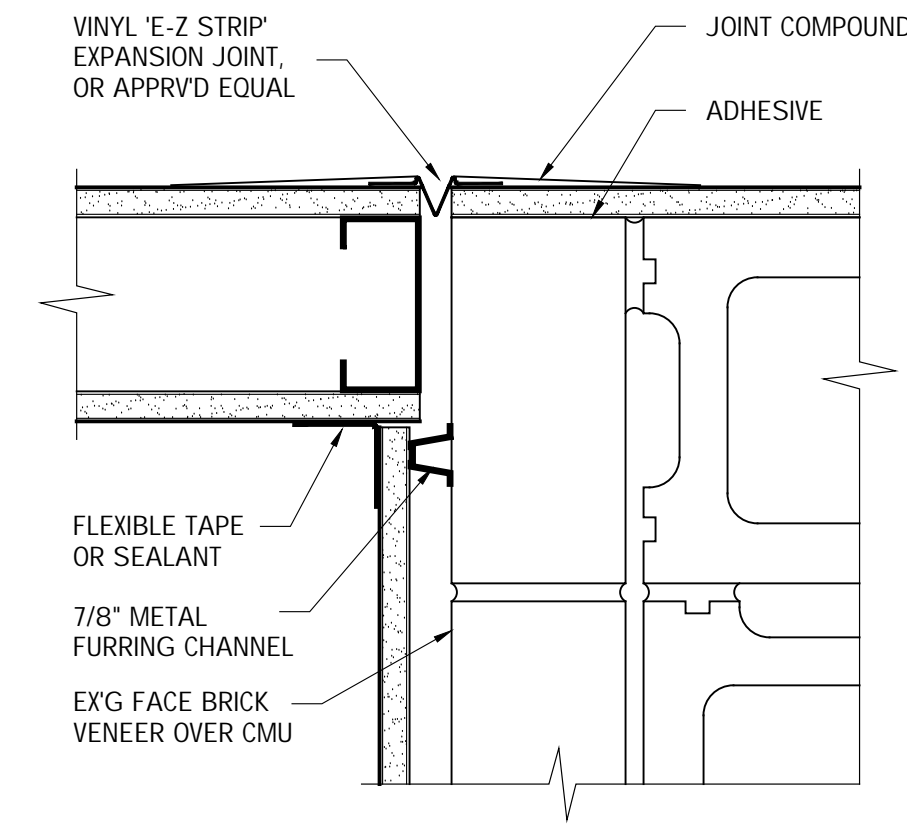
Typical Metal Stud Framing Web Penetrations Detail
NO SCALE



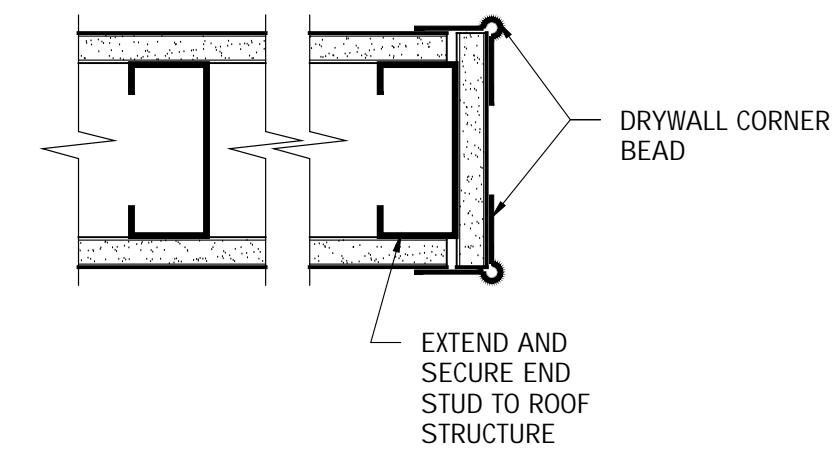
Typical Bottom Track Anchorage
NO SCALE



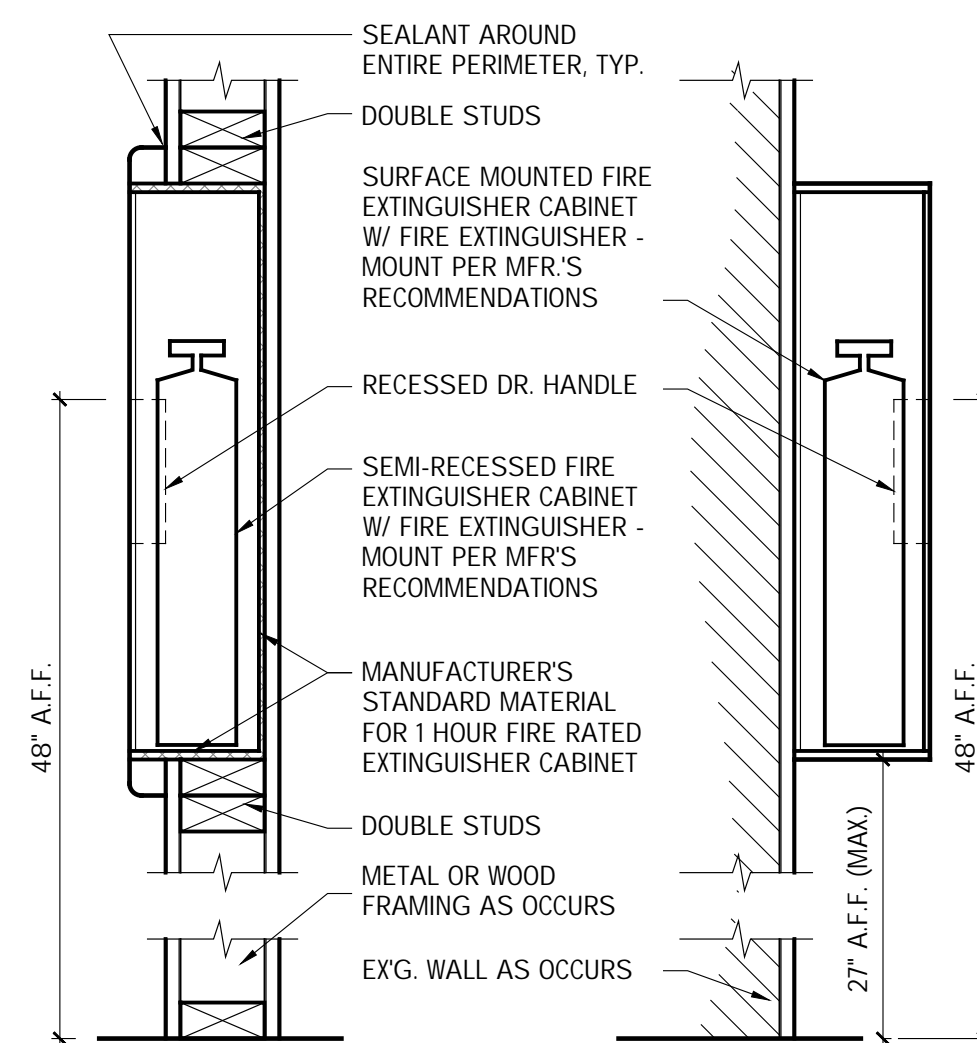
Control Joint
SCALE: 3" = 1'-0"



Control Joint
SCALE: 3" = 1'-0"



Endwall Detail
SCALE: 3" = 1'-0"

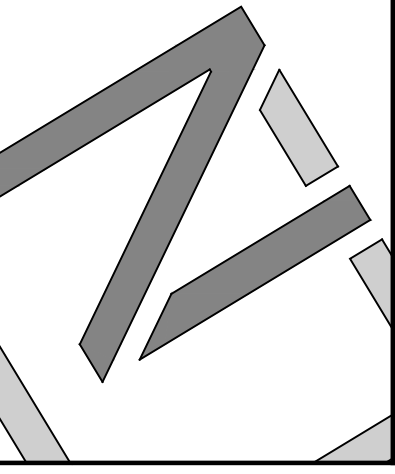


F.E. Cabinet Details
SCALE: 1 1/2" = 1'-0"

Wall Section Notes:

1. MAIN FLOOR ELEVATIONS ARE 100'-0". REFER TO CIVIL DRAWINGS FOR CORRESPONDING ACTUAL ELEVATIONS.
2. REFER TO SHEET SERIES A-1 AND A-3 FOR DOOR AND WINDOW INFORMATION.
3. IF A CONFLICT OR DISCREPANCY OCCURS BETWEEN STRUCTURAL, ARCHITECTURAL, PLUMBING, MECHANICAL OR ELECTRICAL, CONTACT ARCHITECT FOR CLARIFICATION.
4. CONSTRUCTION SITE SAFETY IS TO BE MAINTAINED AT ALL TIMES. ALL SUBCONTRACTORS SHALL REVIEW AND FOLLOW ALL OSHA REGULATIONS. ITEMS OF PARTICULAR CONCERN INCLUDE, BUT ARE NOT LIMITED TO: FALL PREVENTION, LADDER SAFETY, SCAFFOLDING, ELECTRICAL HAZARDS, TRENCHING AND EXCAVATION, AND TRIP HAZARDS. ALL JOBSITES WILL REQUIRE COMPLIANCE WITH THE SILICA STANDARD, OSHA 29 CFR 1926.1153.

NEWCO
Design Build LLC
4131 Roger B Chaffee
Memphis Blvd. SE
Grand Rapids, MI 49548
(616) 493-9360 Tel.
(616) 493-9364 Fax
www.newcodb.com



SEAL	
ARCHITECT:	BRADFORD W. POTTER
PROJECT No.:	30-00830

#	DATE	ISSUED FOR
	09/06/22	PERMIT
	06/30/22	REVIEW AND PRICING
	05/20/22	REVISED LAYOUT
	05/03/22	PRELIM LAYOUT

PROJECT NAME:	GROW FACILITY LESLIE, MICHIGAN
SHEET TITLE:	Wall Sections and Details
SHEET No.:	A-6.1

Ceiling Plan Notes:

1. CEILING ELEVATIONS NOTED ARE FROM FLOOR ELEVATION 100'-0".
2. CONTRACTOR SHALL FOLLOW SUSPENDED ACOUSTICAL PANEL GRID PATTERN AS ESTABLISHED ON THE PLAN. VARIATIONS SHALL BE SUBMITTED FOR APPROVAL BY THE ARCHITECT.
3. REFER TO MECHANICAL, LIGHTING, A/V AND SECURITY SYSTEM DRAWINGS AS REQUIRED FOR ADDITIONAL INFORMATION. PROVIDE BLOCKING AND FRAMING SUPPORTS AS REQUIRED FOR CEILING LAYOUTS.
4. WIRE SUSPENDED CEILING SYSTEMS FROM STRUCTURE ONLY AND AS REQUIRED FOR ADDITIONAL LOADS FROM LIGHTING AND MECHANICAL LAYOUTS.
5. TOUCH UP PAINT GRID AS REQUIRED.
6. INSTALL CONTROL JOINTS IN G.P.D.W. CEILINGS AT 30'-0" O.C. MAX. AND 2.500 S.F.
7. PROVIDE ON THE WARM SIDE OF ATTIC/CEILING AREAS A VAPOR BARRIER NOT EXCEEDING 1 PERM RATING IN ACCORDANCE WITH ASTM E-96.
8. CONSTRUCTION SITE SAFETY IS TO BE MAINTAINED AT ALL TIMES. ALL SUBCONTRACTORS SHALL REVIEW AND FOLLOW ALL OSHA REGULATIONS. ITEMS OF PARTICULAR CONCERN INCLUDE, BUT ARE NOT LIMITED TO: FALL PREVENTION, LADDER SAFETY, SCAFFOLDING, ELECTRICAL HAZARDS, TRENCHING AND EXCAVATION, AND TRIP HAZARDS. ALL JOBSITES WILL REQUIRE COMPLIANCE WITH THE SILICA STANDARD, OSHA 29 CFR 1926.1153.

NEWCO
Design Build LLC

4131 Roger B. Chaffee
Memorial Blvd., SE
Grand Rapids, MI 49508
(616) 493-9360 Tel.
(616) 493-9364 Fax
www.NewcoDB.com

ARCHITECT:
BRADFORD W. POTTER

PROJECT No.:
30-00830

#	DATE	ISSUED FOR
09/06/22	PERMIT	
06/30/22	REVIEW AND PRICING	
05/20/22	REVISED LAYOUT	
05/03/22	PRELIM LAYOUT	

PROJECT NAME:
GROW FACILITY
LESLIE, MICHIGAN

SHEET TITLE:
Reflected Ceiling Plan, Notes, and Details

SHEET No.:

A-7.1



Reflected Ceiling Plan Legend
VERIFY FINAL FINISHES AND COLOR SELECTIONS WITH THE ARCHITECT

- PREFINISHED METAL BUILDING LINER PANEL - EXPOSED
- PREFINISHED METAL INTERIOR LINER PANEL - EXPOSED - PERPENDICULAR TO FRAMING
- ACOUSTICAL CEILING PANEL IN SUSPENDED METAL GRID SYSTEM
PANEL BASIS OF DESIGN:
"ARMSTRONG" #1820 FINE FISSURED 24"x48"x3/4" w/ TEGULAR EDGE
GRID BASIS OF DESIGN:
"ARMSTRONG" PRELUDE ML 15/16" EXPOSED TEE
- DIRECTIONAL CEILING RECESSED LIGHT
- WALL SWITCH, STANDARD
WALL SWITCH, THREE-WAY
- EXIT EXTERIOR DOOR EGRESS LIGHT WITH REMOTE HEAD AND BATTERY BACK UP
- PLACE SPRINKLER HEAD AS DIAGRAMMED - VERIFY REQUIRED FLOOR COVERAGE OF ALL HEADS PRIOR TO FINAL PLACEMENT
- LED FIXTURE, EXPOSED BULB
- 2x4 LAY-IN LED LIGHT FIXTURE
- 2x4 LAY-IN LED LIGHT FIXTURE, WIRED AS CONTINUOUS NIGHT LIGHT FUNCTION

Reflected Ceiling Plan
SCALE: 1/8" = 1'-0"

PLT DATE: 09/06/22 10:58 AM
BWA: POTTER

Room Finish Schedule										SEE ALSO REFLECTED CEILING PLAN AND FINISHES SHEET FOR INFORMATION
NO.	NAME	FLOOR			WALLS		CEILING			REMARKS
		SUBSTRATE	FINISH	BASE	MATERIAL	FINISH	MATERIAL	FINISH	HEIGHT	
100	VESTIBULE	CONCRETE	LVT	VINYL	G.P.D.W.	PAINT	APG	---	10'-0"	
101	HALL	CONCRETE	LVT	VINYL	G.P.D.W.	PAINT	APG	---	10'-0"	
102	BREAK	CONCRETE	LVT	VINYL	G.P.D.W.	PAINT	APG	---	9'-0"	PROVIDE STAINLESS STEEL CLOSET ROD AND WHITE MELAMINE M.D.O. SHELF ON CLEATS
103	WOMEN'S TOILET	CONCRETE	LVT	VINYL	G.P.D.W.	PAINT	APG	---	9'-0"	
104	MEN'S TOILET	CONCRETE	LVT	VINYL	G.P.D.W.	PAINT	APG	---	9'-0"	
105	OFFICE	CONCRETE	CPT TILE	VINYL	G.P.D.W.	PAINT	APG	---	9'-0"	
106	CONFERENCE ROOM	CONCRETE	CPT TILE	VINYL	G.P.D.W.	PAINT	APG	---	9'-0"	
107	DRY	CONCRETE	SEALER	VINYL	MTL PNL	---	MTL PNL	PAINT	11'-6"	
108	TRIM	CONCRETE	SEALER	VINYL	MTL PNL	---	MTL PNL	PAINT	11'-6"	
109	CURE	CONCRETE	SEALER	VINYL	MTL PNL	---	MTL PNL	PAINT	11'-6"	
110	FERTIGATION	CONCRETE	SEALER	VINYL	MTL PNL	---	EXP. DECK	PAINT	VARIES	
111	NUTRIENT	CONCRETE	SEALER	VINYL	G.P.D.W.	PAINT	EXP. DECK	PAINT	VARIES	
112	WATER	CONCRETE	SEALER	VINYL	G.P.D.W.	PAINT	EXP. DECK	PAINT	VARIES	
113	ELECTRICAL	CONCRETE	SEALER	VINYL	G.P.D.W.	PAINT	EXP. DECK	PAINT	VARIES	*PROVIDE F.R. PLYWOOD PHONE BACKER
114	JANITOR	CONCRETE	SEALER	VINYL	G.P.D.W.	PAINT	APG	---	9'-0"	*PROVIDE F.R.P. AT MOP SINK
115	SHIPPING	CONCRETE	SEALER	VINYL	G.P.D.W.	PAINT	APG	---	9'-0"	
116	RECEIVING	CONCRETE	SEALER	VINYL	G.P.D.W.	PAINT	EXP. DECK	PAINT	VARIES	
117	HALL	CONCRETE	SEALER	VINYL	G.P.D.W.	PAINT	EXP. DECK	PAINT	VARIES	
118	SAFE	CONCRETE	SEALER	VINYL	PLY WOOD	PAINT	APG	---	12'-0"	
119	PACKAGING	CONCRETE	SEALER	VINYL	G.P.D.W.	PAINT	APG	---	12'-0"	
120	HALL	CONCRETE	SEALER	VINYL	MTL PNL	---	EXP. DECK	PAINT	VARIES	
121	CLONE	CONCRETE	SEALER	VINYL	MTL PNL	---	MTL PNL	---	11'-6"	
122	MOTHER	CONCRETE	SEALER	VINYL	MTL PNL	---	MTL PNL	---	11'-6"	
123	VEG	CONCRETE	SEALER	VINYL	MTL PNL	---	MTL PNL	---	11'-6"	
124	FLOWER	CONCRETE	SEALER	VINYL	MTL PNL	---	MTL PNL	---	11'-6"	
125	FLOWER	CONCRETE	SEALER	VINYL	MTL PNL	---	MTL PNL	---	11'-6"	
126	FLOWER	CONCRETE	SEALER	VINYL	MTL PNL	---	MTL PNL	---	11'-6"	
127	FLOWER	CONCRETE	SEALER	VINYL	MTL PNL	---	MTL PNL	---	11'-6"	
128	LAB	CONCRETE	SEALER	VINYL	MTL PNL	---	MTL PNL	---	11'-6"	
129	KITCHEN	CONCRETE	SEALER	VINYL	MTL PNL	---	MTL PNL	---	11'-6"	

Abbreviations

- APG = ACOUSTICAL PANEL GRID - 2x4"
- CPT = CARPET
- E, EX, EXG = EXISTING
- EXP = EXPOSED
- FRP = FIBER REINF. PLASTIC
- GPDW = GYPSUM DRYWALL
- MTL = METAL
- PLYWD = PLYWOOD
- PT, PNT = PAINT
- V, VYN = VINYL
- LVT = LUXURY VINYL TILE
- WD = WOOD

INTERIOR WALL AND CEILING FINISHES FOR 'B' USE. SPRINKLERED, SHALL BE CLASS 'B' FOR EXIT ENCLOSURES, 'C' FOR CORRIDORS, AND CLASS 'C' FOR ROOMS AND ENCLOSED SPACES. INTERIOR WALL AND CEILING FINISHES FOR 'F' USE. SPRINKLERED, SHALL BE CLASS 'C' FOR EXIT ENCLOSURES, 'C' FOR CORRIDORS, AND CLASS 'C' FOR ROOMS AND ENCLOSED SPACES. FLAME SPREAD INDEX FOR CLASS 'A' IS 0-25, FOR CLASS 'B' IS 26-75 AND FOR CLASS 'C' IS 76-200. SMOKE DEVELOPED INDEX TO MEET 0-450. MATERIALS TO COMPLY WITH ASTM E-84.

Floor Finishes Legend

- REFER TO ADDL. FINISH NOTES THIS SHEET AND SCHEDULED INFORMATION. VERIFY FINAL FINISHES COLOR SELECTIONS WITH THE ARCHITECT.
- LUXURY VINYL TILE BASIS OF DESIGN: AS SELECTED BY OWNER
 - VINYL WALL BASE - ROPPE OR JOHNSONITE
 - CARPET TILE: ADHESIVE BACKED INSTALLATION BASIS OF DESIGN: AS SELECTED BY OWNER
 - VINYL WALL BASE - ROPPE OR JOHNSONITE
 - CONCRETE WITH HARDENER AND SEALER
 - VINYL WALL BASE - ROPPE OR JOHNSONITE

Floor Finishes Notes:

- REFER TO STRUCTURAL DRAWINGS FOR LOCATION OF CONTROL JOINTS IN CONCRETE SLAB. LOCATE THE CONTROL JOINTS OF FINISH MATERIALS OVER SLAB CONTROL JOINTS.
- REMOVE COATINGS AND DEBRIS THAT ARE INCOMPATIBLE WITH CARPET ADHESIVES. USING MECHL. METHODS RECOMMENDED BY CARPET MANUFACTURER. BROOM AND VACUUM CLEAN SUBSTRATES TO BE COVERED IMMEDIATELY BEFORE INSTALLATION OF CARPETING.
- PROVIDE FLOORING MATERIAL CHANGES AND RECD. TRANSITION STRIPS BENEATH THE CENTERLINE OF DOOR IN CLOSED POSITION UNLESS DEPICTED OTHERWISE IN PLAN.
- CUT AND FIT CARPET TO BUTT TIGHTLY TO VERTICAL SURFACES. PERMANENT FIXTURES AND BUILT-INS. BIND OR SEAL CUT EDGES AS RECOMMENDED BY MANUFACTURER. DO NOT BRIDGE BUILDING EXPANSION JOINTS WITH CARPET.
- INSTALL METAL EDGE STRIPS WHERE EXPOSED EDGE OF TILE MEETS CARPETING OR OTHER FLOORING THAT FINISHES FLUSH WITH OR BELOW THE TOP OF TILE AND NO THRESHOLD IS INDICATED.
- FOR TILE INSTALLED ON WALK SURFACES, COMPLY WITH 0.60 MIN. STATIC COEFFICIENT OF FRICTION PER ASTM C 1028.
- PROVIDE TILE UNITS COMPLYING WITH ANSI STANDARDS REFERENCED BY THE LATEST I.C.N.A. (TILE COUNCIL OF NORTH AMERICA) INSTALLATION METHODS. TILE SHALL BE CLASS IV PER ASTM C-1027 AND BE FACTORY BLENDED SO TILE UNITS TAKEN FROM ONE PACKAGE SHOW THE SAME RANGE IN COLORS AS THOSE TAKEN FROM OTHER PACKAGES TO MATCH APPROVED SAMPLES. MULTIPLE COLORS AND PATTERNS MAY BE SELECTED.
- PROVIDE TILE TRIM UNITS AS REQUIRED, COORDINATED WITH SIZES AND COURSES OF ADJOINING FLAT TILE. SHAPES MAY INCLUDE BASE (COVER), WAINSCOT CAP (BULLNOSE), EXTERNAL AND INTERNAL CORNERS.
- CENTER TILE PATTERN LAYOUT WITHIN ROOMS FOR BEST APPEARANCE WHEN NOT INDICATED ON PLANS. LAY OUT TILE WORK TO MINIMIZE USE OF PIECES LESS THAN HALF A TILE.
- PROVIDE UNIFORM JOINT WIDTHS UNLESS OTHERWISE INDICATED. USE GROUT WIDTHS AS RECOMMENDED BY THE TILE MANUF. FOR TILE SIZE. COORDINATE GROUT JOINT WIDTHS WITH TILE WHEN DIFFERENT SIZES, COLORS, OR MANUFACTURERS ARE USED. ALIGN JOINTS OF ADJOINING FLOOR AND WALL SURFACES WHERE POSSIBLE.
- TERMINATE TILE WORK NEATLY AT ALL OBSTRUCTIONS, EDGES, AND CORNERS WITHOUT DISRUPTING PATTERN OR JOINT ALIGNMENTS.
- USE GROUT AND TILE CLEANERS AND SEALERS THAT WILL NOT HARM, CHANGE COLOR OF, OR APPEARANCE OF SURFACES.
- PROVIDE EXPANSION JOINTS AND OTHER SEALANT FILLED JOINTS IN TILE WORK INCLUDING CONTROL, CONTRACTION, ISOLATION AND PERIMETER JOINTS. FORM JOINTS DURING INSTALLATION INSTEAD OF SAW-CUTTING AFTER SETTING TILE. SPACE MOVEMENT JOINTS AT 24' MAX. O.C. EACH DIRECTION AT INTERIOR.
- PROVIDE CRACK ISOLATION MEMBRANE COMPLYING WITH ANSI A118.12 FOR STANDARD PERFORMANCE AND IS ALSO RECOMMENDED BY THE MANUFACTURER FOR THE APPLICATION INDICATED. INCLUDE REINFORCEMENT AND ACCESSORIES AS RECOMMENDED.
- PROVIDE WATERPROOF MEMBRANE AT TOILET, SHOWER AND JANITOR ROOMS COMPLYING WITH ANSI A118.10 FOR BOTH STANDARD PERFORMANCE AND IS RECOMMENDED BY THE MANUFACTURER FOR THE APPLICATION INDICATED. INCLUDE REINF. AND ACCESSORIES AS RECOMMENDED.
- DO NOT USE WOOD-BASED PANELS SUCH AS PARTICLE BOARD, COMPOSITE PANELS, OSB, WAFER BOARD, SOFTWOOD PLYWOOD OR SIMILAR PANELS AS BACKING MATERIALS FOR DIRECT BONDING OF CERAMIC FLOOR TILES. PLYWOOD WITH EXPOSURE 1 RATING, CEMENT BOARD, OR COATED GLASS MAT WATER-RESISTANT GYPSUM BOARD IS ACCEPTABLE.
- CARPET INSTALLATION TO BE DIRECT GLUE DOWN METHOD. USE TROWELABLE LEVELING AND PATCHING COMPOUNDS. WATER AND MILDEW RESISTANT NON-STAINING ADHESIVES, AND HOT-MELT SEAM TAPE AS RECOMMENDED BY CARPET MANUFACTURER. MULTIPLE COLORS AND PATTERNS MAY BE SELECTED.
- RESILIENT WALL BASE AND ACCESSORIES TO BE GROUP 1: SOLID, HOMOGENEOUS.
- JOB FORM RESILIENT WALL BASE CORNERS WITHOUT PRODUCING DISCOLORED BENDS.

General Finishes Notes:

- CONTRACTOR TO FIELD VERIFY ALL EXISTING SUBSTRATE CONDITIONS ARE SUITABLE PER EACH FINISH MATERIAL MANUFACTURER'S RECOMMENDATIONS. PROCEED TO CLEAN, LEVEL OR ROUGHEN SUBSTRATES AS REQUIRED.
- USE WATER RESISTANT GPDW IN AREAS EXPOSED TO MOISTURE. SERVICE SINK AREAS, DRINKING FOUNTAINS, WALL MOUNTED LAVATORIES, WATER CLOSET WALLS, AND COUNTER MOUNTED SINKS. INSTALL 4 FEET HIGH AND TO WITHIN 2 FEET OF FIXTURES.
- FOR TILE BACKER, USE CEMENT, FIBER CEMENT, OR GLASS MATT GYPSUM IN TUB AND SHOWER AREAS AND CEILING PANELS OVER SHOWERS. USE A MINIMUM OF WATER RESISTANT GPDW FOR WATER CLOSET WALLS. REGULAR GPDW IS PERMITTED AS A TILE BACKER IN OTHER AREAS WHEN INSTALLED PER GA-216 OR ASTM C 840.
- WHERE GPDW ABUTS DISSIMILAR MATERIAL, PROVIDE CASING BEAD AND CAULK.
- INSTALL CONTROL JOINTS IN GPDW AT 30'-0" MAX. O.C. AND 2500 S.F. IN CEILING.
- GYPSUM BOARD FINISHING:
LEVEL 1: CEILING PLENUM AREAS, CONCEALED AREAS
LEVEL 2: TILE SUBSTRATE
LEVEL 4: TYPICAL FOR PAINTED SURFACES EXPOSED TO VIEW
LEVEL 5: WHERE NOTED ON PLANS FOR AREAS OF EXPOSURE TO HARSH AND/OR GRAZED LIGHTING CONDITIONS
- MASK OFF ADJACENT AREAS AS REQUIRED TO PREVENT CONTACT OF PRIMERS, GLUES OR SEALANTS WITH ADJACENT SURFACES THAT CAN BE DAMAGED OR STAINED BY SUCH CONTACT OR CLEAN-UP WORK.
- CLEAN OUT JOINTS IMMEDIATELY BEFORE INSTALLING JOINT SEALANTS, REMOVING FOREIGN MATERIAL, CONTAMINANTS AND FINISHES THAT COULD AFFECT JOINT SEALANT PERFORMANCE.
- PRIME JOINT SUBSTRATES WHERE RECOMMENDED BY JOINT SEALANT MANUFACTURER, AND APPLY SEALANT BACKINGS AND SEALANT PER THE MANUFACTURER'S RECOMMENDATIONS.
- INSTALL SEALANTS TO FULLY WET SURFACES. PRODUCE UNIFORM SHAPES AND DEPTHS, AND TOOL TO FORM A SMOOTH, UNIFORM FINISH. USE TOOLING AGENTS APPROVED BY THE SEALANT MANUFACTURER THAT DO NOT DISCOLOR SEALANTS.
- PROVIDE MEASURES TO ADEQUATELY PROTECT FINISHED SURFACES.
- COORDINATE ALL TRADE WORK TO MINIMIZE INTERFERENCE AND POSSIBILITY FOR DAMAGE TO PROTECT AREAS AND FINISH SURFACES OF OTHER TRADES. TOUCH UP, REPAIR OR REPLACE DAMAGED WORK SUCH THAT THERE IS NO VISIBLE EVIDENCE OF CORRECTIVE WORK.
- AT END OF EACH WORKDAY, REMOVE RUBBISH, EMPTY CANS, RAGS, AND OTHER DISCARDED MATERIALS.
- CLEAN AREAS AND SPACES WHERE FINISH WORK IS PERFORMED. COMPLETELY REMOVE PAINT, MORTAR, OILS, PUTTY, SEALANTS AND SIMILAR MATERIALS FROM COMPLETED WORK AND ADJ. SURFACES.
- PROVIDE EXTRA MATERIALS TO OWNER FOR REPAIRS AND MAINTENANCE, IN THE AMOUNT OF 5% FOR EACH MATERIAL'S FINISH AREA. PROVIDE THE ARCHITECT WITH DOCUMENTATION OF OWNER'S RECEIPT.
- CONSTRUCTION SITE SAFETY IS TO BE MAINTAINED AT ALL TIMES. ALL SUBCONTRACTORS SHALL REVIEW AND FOLLOW ALL OSHA REGULATIONS. ITEMS OF PARTICULAR CONCERN INCLUDE, BUT ARE NOT LIMITED TO: FALL PREVENTION, LADDER SAFETY, SCAFFOLDING, ELECTRICAL HAZARDS, TRENCHING AND EXCAVATION, AND TRIP HAZARDS. ALL JOBSITES WILL REQUIRE COMPLIANCE WITH THE SILICA STANDARD, OSHA 29 CFR 1926.1153.

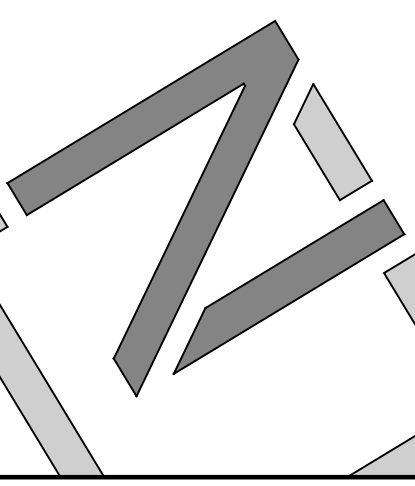
Paints and Stains Notes:

- PAINT PREPARATION AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH REQUIREMENTS IN THE LATEST EDITION OF THE M.P.I. ARCHITECTURAL AND PAINTING SPECIFICATION MANUAL.
- PRIME ALL SURFACES SCHEDULED TO RECEIVE PAINT FINISH. USE COLOR-TINT PRIMER WHERE APPROPRIATE.
- APPLY BLOCK FILLER AND SEALING PRIMER AT ALL CONCRETE MASONRY WALLS SCHEDULED TO RECEIVE PAINT FINISH.
- USE ENAMEL PAINT (OR APPROVED LATEX OF EQUIV. DURABILITY) IN TOILET ROOM AND GLOSSY FINISH LEVELS OF PAINT WITH ARCHITECT. MULTIPLE COLORS MAY BE SELECTED.
- USE WOOD FILLER PASTE AS REQUIRED AT WOOD SCHEDULED TO RECEIVE STAIN.
- USE INTERIOR SEMI-TRANSPARENT STAINS ON WOOD SCHEDULED TO RECEIVE STAIN. VERIFY COLOR AND GLOSS FINISH LEVELS OF STAINS AND VARNISHES WITH ARCHITECT. MULTIPLE COLORS MAY BE SELECTED.
- APPLY MINIMUM TWO FINISH COATS OF PAINT. APPLY TO PRODUCE SURFACE FILMS WITHOUT CLOUDINESS, SPOTTING, LAPS, BRUSH MARKS, ROLLER TRACKING, RUNS, SAGS, ROPEINESS, OR OTHER SURFACE IMPERFECTIONS. CUT IN SHARP LINES AND COLOR BREAKS.
- IF UNDERCOATS OR OTHER CONDITIONS SHOW THROUGH TOPCOAT, APPLY ADDITIONAL COATS UNTIL CURED FILM HAS A UNIFORM FINISH, COLOR AND APPEARANCE.
- MISC. M/P/E ITEMS SUCH AS ELECTRICAL CABINETS AND PANELS, FIRE EXTINGUISHER CABINETS, GRILLES, ETC. TO BE PAINTED TO MATCH AREA INCLUDED WITHIN. IF IN QUESTION, VERIFY WITH ARCHITECT.
- DO NOT REMOVE, DAMAGE, OR PAINT OVER AFFIXED U.L. LABELS ON FIRE RATED ASSEMBLIES.
- AT COMPLETION OF CONSTRUCTION ACTIVITIES, TOUCH UP AND RESTORE DAMAGED OR DEFACED FINISHED PAINTED SURFACES.



Floor Finish Plan
SCALE: 1/8" = 1'-0"

NEWCO
Design Build LLC
4131 Roger B Chaffee Memorial Blvd. SE
Grand Rapids, MI 49548
(616) 493-9349 tel.
(616) 493-9344 fax
www.newcobd.com



ARCHITECT: BRADFORD W. POTTER
PROJECT NO.: 30-00830

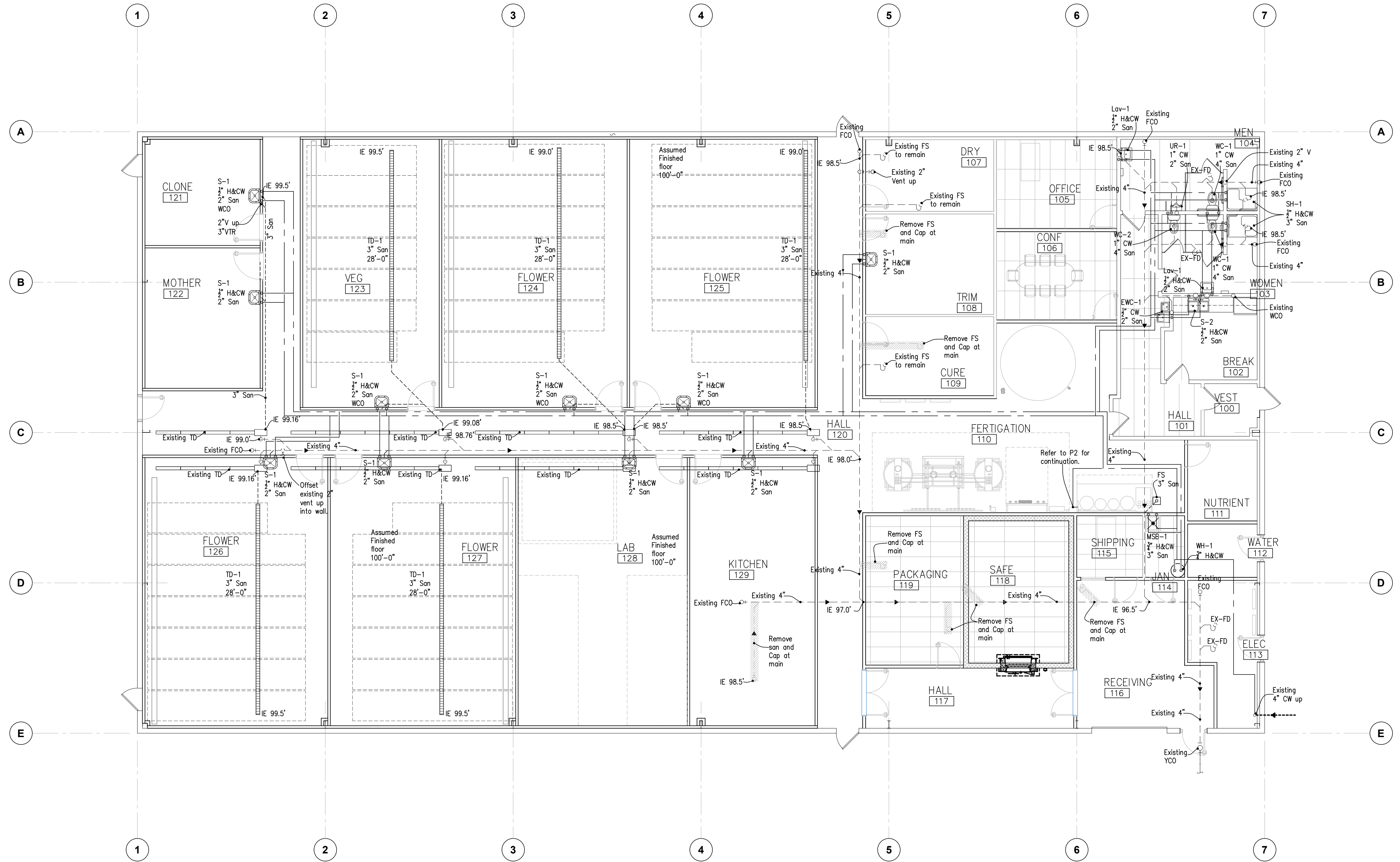
DATE	ISSUED FOR
09/06/22	PERMIT
06/30/22	REVIEW AND PRICING
05/20/22	REVISED LAYOUT
05/03/22	PRELIM LAYOUT

PROJECT NAME: **GROW FACILITY**
LESLIE, MICHIGAN
SHEET TITLE: **Finish Plan, Notes, and Details**

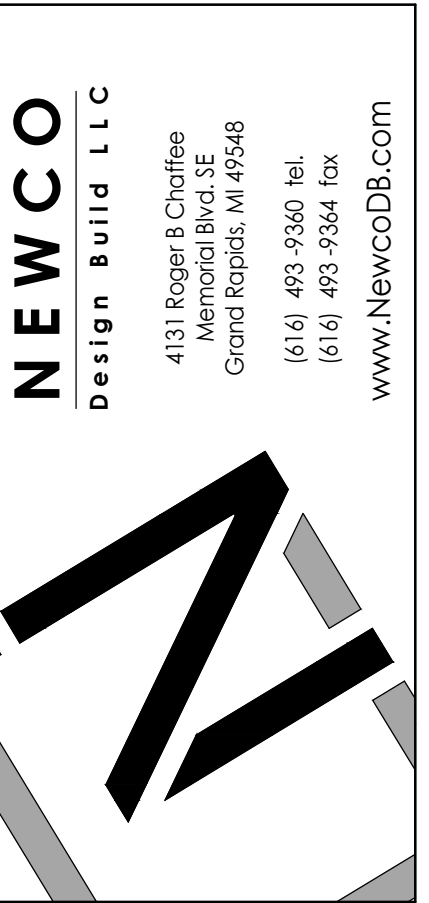
SHEET NO.: **FM-1.1**

DATE PLOTTED: 05/03/22 09:14 AM
PLOT WIDTH: 36.0000

PLUMBING FIXTURE SCHEDULE		
Symbol	Model	Notes
WC-1	2257101	American Standard Afwall 1.6 GPF Wall-Mounted top spud Flush Valve type Vitreous China Fixture (ADA) ;Elongated, standard white, elongated toilet seat with stainless steel check hinge; Brass Closet Bolt/Wax Ring Kit, Sloan Regal XL 111-1.6 (1.6 GPF) Flushometer.
WC-2	2257101	American Standard Afwall 1.6 GPF Wall-Mounted top spud Flush Valve type Vitreous China Fixture (ADA) ;Elongated, standard white, elongated toilet seat with stainless steel check hinge; Brass Closet Bolt/Wax Ring Kit, Sloan Regal XL 111-1.6 (1.6 GPF) Flushometer.
UR-1	6590001	American Standard Washbrook 1.0 GPF Wall-Mounted top spud Flush Valve type Vitreous China Fixture, standard white, Sloan Regal XL 186-0.5 (0.5 GPF) Sensor Flushometer.
LAV-1	0476.028 7755115 USG-B-M2 102EZ	American Standard white drop in lavatory, 4" centers, grid drain, 1-1/4" cast p-trap; wheel handle stop and lavatory supply kit American Standard Polished Chrome 4" centers, sensor 1.5 GPM faucet. Watts Thermostatic Mixing Valve, Compression, ASSE1070, 4 Port Truebro white protector kit, p-trap, 2 angle stop supplies, ADA approved.
S-1	OHSB176C 1903-0737-RCF USG-B	Elkay stain finish 20GA Stainless Steel 16 3/4" x15 3/4" wall hung sink, grid drain, 1-1/4" cast p-trap; wheel handle stop and lavatory supply kit Chicago faucet, two lever 1.5 GPM faucet with hose connection. Watts undersink Thermostatic Mixing Valve, Compression, ASSE1070
S-2	DSE.02322 400-DST USG-B-M2	Elkay 33x22x8 20 gauge Stainless Steel sink, top mount, grid drain, 1-1/4" cast p-trap; wheel handle stop and lavatory supply kit DELTA Chrome single handle with spray 1.5 GPM faucet. Watts Thermostatic Mixing Valve, Compression, ASSE1070, 4 Port
SH-1	SH-6036 T13420 R10000-UN D50-134	Oasis Barrier Free white shower DELTA Chrome single handle Tub and shower trim, with sidebar and personal sprayer DELTA universal valve rough body Square top shower drain
TD-1	ES-MD	Watts 6" wide heavy duty trench drain with Class C grates. Length varies for Flower & Veg
EWC-1	LZSTLBSWLSK	Elkay bi-level pushbar activated water cooler.
HB-1	B67	Woodford wall mounted freezeless covered hydrant.
WH-1	D-100S-199-3N	Bradford White 100 gallon, 199,000 btu/hr gas water heater.



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



SEAL:	
ARCHITECT:	BRADFORD W. POTTER
PROJECT MANAGER:	CHRISTIAN GINI
PROJECT No.:	30-00830

#	DATE	ISSUED FOR
09/06/22	PERMITS	
05/20/22	REVISED LAYOUT	
05/03/22	PRELIM LAYOUT	

PROJECT NAME:
GROW FACILITY
LESLIE, MICHIGAN

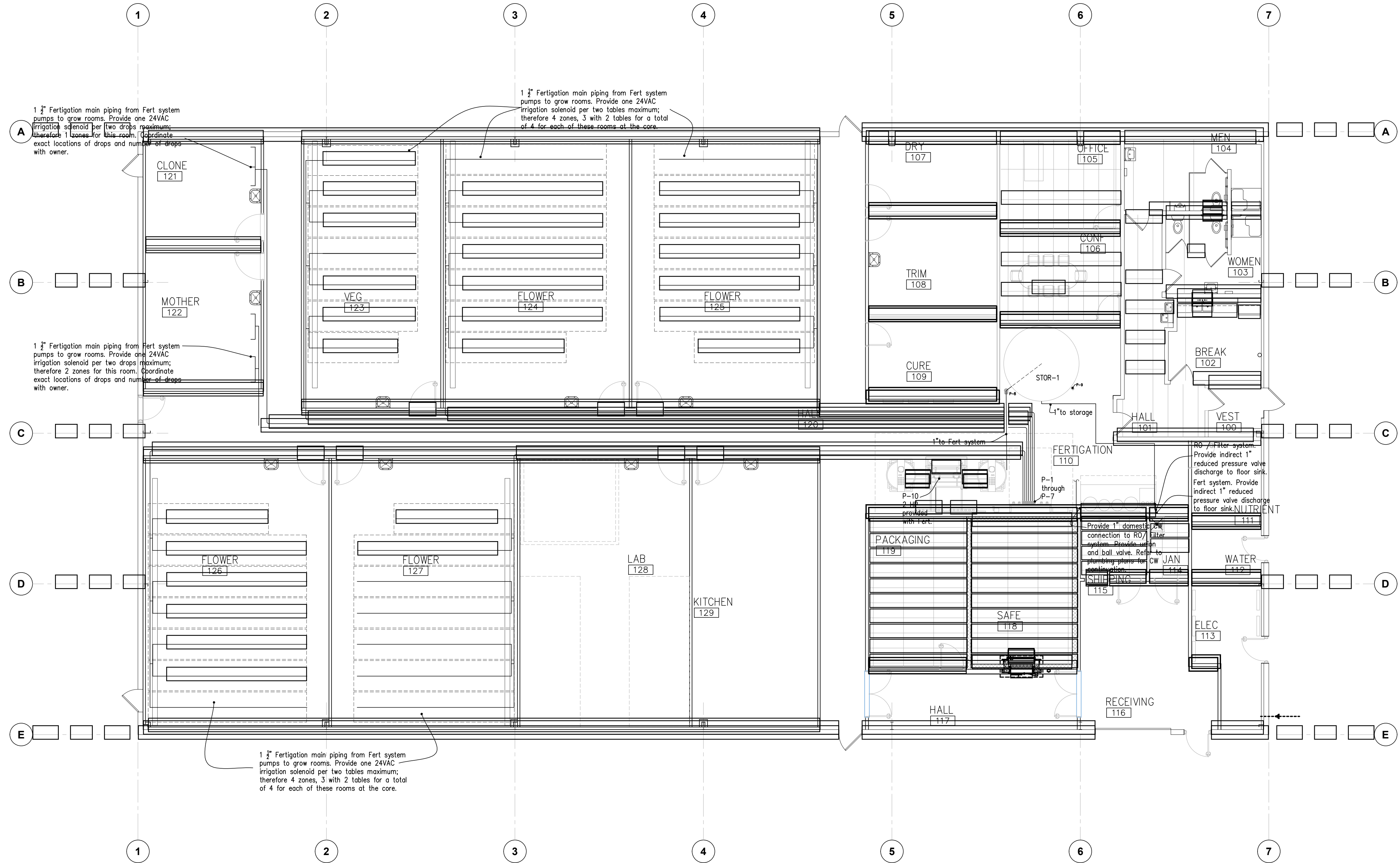
SHEET TITLE:
DOMESTIC & SANITARY PLANS

SHEET No.:

P1

PUMP SCHEDULE								
SYM	GPM	HEAD	SYSTEM SERVED	EQUIPMENT SERVED	WATT	V	φ	REMARKS
P-1	30	35'	Fert to Grow	control valves at grow	440	240	1	GRUNDFOS MAGNA3 40-120F stainless steel
P-2	30	35'	Fert to Grow	control valves at grow	440	240	1	GRUNDFOS MAGNA3 40-120F stainless steel
P-3	30	35'	Fert to Grow	control valves at grow	440	240	1	GRUNDFOS MAGNA3 40-120F stainless steel
P-4	30	35'	Fert to Grow	control valves at grow	440	240	1	GRUNDFOS MAGNA3 40-120F stainless steel
P-5	30	35'	Fert to Grow	control valves at grow	440	240	1	GRUNDFOS MAGNA3 40-120F stainless steel
P-6	30	35'	Fert to Grow	control valves at grow	440	240	1	GRUNDFOS MAGNA3 40-120F stainless steel
P-7	30	35'	Fert to Grow	control valves at grow	440	240	1	GRUNDFOS MAGNA3 40-120F stainless steel
P-8	25	35'	Tank base to Fert	Storage tank	440	240	1	GRUNDFOS MAGNA3 40-120F stainless steel
P-9	20	25'	Turnover of storage	Storage tank	180	240	1	GRUNDFOS MAGNA3 40-120F stainless steel
P-10	x	x	Base of Fert	Fert	2 HP	240	1	Provided with Fert system

STORAGE TANK SCHEDULE				
SYM	DIAMETER	HEIGHT	SYSTEM SERVED	REMARKS
STOR-1	102"	54"	RO STORAGE	PLASTIC MARK CRM-1600 VTS POLYETHYLENE, WHITE, 24" LID, 2" THREADED OUTLET, GALLON INDICATOR.



NEWCO
Design Build LLC
4131 Roger B. Chaffee
Grand Rapids, MI 49548
(616) 493 4360 Tel.
(616) 493 4364 Fax
www.NewcoDB.com

ARCHITECT: BRADFORD W. POTTER
PROJECT MANAGER: CHRISTIAN GINI
PROJECT No.: 30-00830

DATE	ISSUED FOR	#
09/06/22	PERMITS	
05/20/22	REVISED LAYOUT	
05/03/22	PRELIM LAYOUT	

PROJECT NAME: GROW FACILITY
LESLIE, MICHIGAN
SHEET TITLE: FERT PLUMBING PLANS
SHEET No.: P2

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

FAN COILS and EVAPORATORS							
Symbol	CFM	ESP (in)	COOLING		HEATING	Voltage/ phase	Model/ Remarks
			MBH	LDB	LWB	INPUT(MBH)	
FCU-1A	1600	0.7	47	55	54	45	120/single Fujitsu model FH4821TTS
FCU-1B	1600	0.7	47	55	54	45	120/single Fujitsu model FH4821TTS
FCU-1C	1600	0.7	47	55	54	45	120/single Fujitsu model FH4821TTS
FCU-2A	1600	0.7	47	55	54	45	120/single Fujitsu model FH4821TTS
FCU-2B	1600	0.7	47	55	54	45	120/single Fujitsu model FH4821TTS
FCU-2C	1600	0.7	47	55	54	45	120/single Fujitsu model FH4821TTS
FCU-3A	1600	0.7	47	55	54	45	120/single Fujitsu model FH4821TTS
FCU-3B	1600	0.7	47	55	54	45	120/single Fujitsu model FH4821TTS
FCU-3C	1600	0.7	47	55	54	45	120/single Fujitsu model FH4821TTS
FCU-4A	1600	0.7	47	55	54	45	120/single Fujitsu model FH4821TTS
FCU-4B	1600	0.7	47	55	54	45	120/single Fujitsu model FH4821TTS
FCU-4C	1600	0.7	47	55	54	45	120/single Fujitsu model FH4821TTS
FCU-5A	1600	0.7	47	55	54	45	120/single Fujitsu model FH4821TTS
FCU-5B	1600	0.7	47	55	54	45	120/single Fujitsu model FH4821TTS
FCU-5C	1600	0.7	47	55	54	45	120/single Fujitsu model FH4821TTS
FCU-6	659	0.2	22	55	54	25.2	240/ single Fujitsu model ASU24RLXFWH
FCU-7A	659	0.2	22	55	54	25.2	240/ single Fujitsu model ASU24RLXFWH
FCU-7B	659	0.2	22	55	54	25.2	240/ single Fujitsu model ASU24RLXFWH
FCU-8A	1900	0.7	50	55	54	50	120/single Fujitsu model FH6024TTS
FCU-8B	1900	0.7	50	55	54	50	120/single Fujitsu model FH6024TTS
FCU-9	542	0.2	18	55	54	21.6	240/ single Fujitsu model ASU18RLF
FCU-10	659	0.2	22	55	54	25.2	240/ single Fujitsu model ASU24RLXFWH
FCU-11	542	0.2	18	55	54	21.6	240/ single Fujitsu model ASU18RLF
FCU-12	542	0.2	18	55	54	21.6	240/ single Fujitsu model ASU18RLF

1. ACCU-1A, B, C each equal to FO4815RSC, 230V, 3ø, 30MOP, 21 MCA.
2. ACCU-2A, B, C each equal to FO4815RSC, 230V, 3ø, 30MOP, 21 MCA.
3. ACCU-3A, B, C each equal to FO4815RSC, 230V, 3ø, 30MOP, 21 MCA.
4. ACCU-4A, B, C each equal to FO4815RSC, 230V, 3ø, 30MOP, 21 MCA.
5. ACCU-5A, B, C each equal to FO4815RSC, 230V, 3ø, 30MOP, 21 MCA.
6. ACCU-6 is equal to AOJ24RLXFWH, 240V, 1ø, 18MCA, 20 amp circuit breaker.
7. ACCU-7A and 7B each equal to AOJ24RLXFWH, 240V, 1ø, 18MCA, 20 amp circuit breaker.
8. ACCU-8A & 8B each equal to FO6015RSC, 230V, 3ø, 35MOP, 21 MCA.
9. ACCU-9 equal to AOJ18RLF, 240V, 1ø, 17MCA, 20 amp circuit breaker.
10. ACCU-10 equal to AOJ24RLXFWH, 240V, 1ø, 18MCA, 20 amp circuit breaker.
11. ACCU-11 equal to AOJ18RLF, 240V, 1ø, 17MCA, 20 amp circuit breaker.
12. ACCU-12 equal to AOJ18RLF, 240V, 1ø, 17MCA, 20 amp circuit breaker.
13. Field verify location of wired control panel.
14. Field verify exact conditions for proper service clearance.
15. MC to provide disconnects for FCUs and ACCUs. Typical all units.

DEHUMIDIFIERS						
Symbol	CFM	PINT (Day)	Amp draw	Voltage/ phase	Model/ Remarks	
DH-1A	1480	506	10.2	240/ 1	Quest model 506	
DH-1B	1480	506	10.2	240/ 1	Quest model 506	
DH-2A	1480	506	10.2	240/ 1	Quest model 506	
DH-2B	1480	506	10.2	240/ 1	Quest model 506	
DH-3A	526	225	6.9	240/ 1	Quest model 225	
DH-3B	526	225	6.9	240/ 1	Quest model 225	
DH-4A	1480	506	10.2	240/ 1	Quest model 506	
DH-4B	1480	506	10.2	240/ 1	Quest model 506	
DH-5A	1480	506	10.2	240/ 1	Quest model 506	
DH-5B	1480	506	10.2	240/ 1	Quest model 506	
DH-9	526	225	6.9	240/ 1	Quest model 225	

1. MC to provide disconnects for all Dehumidifiers.

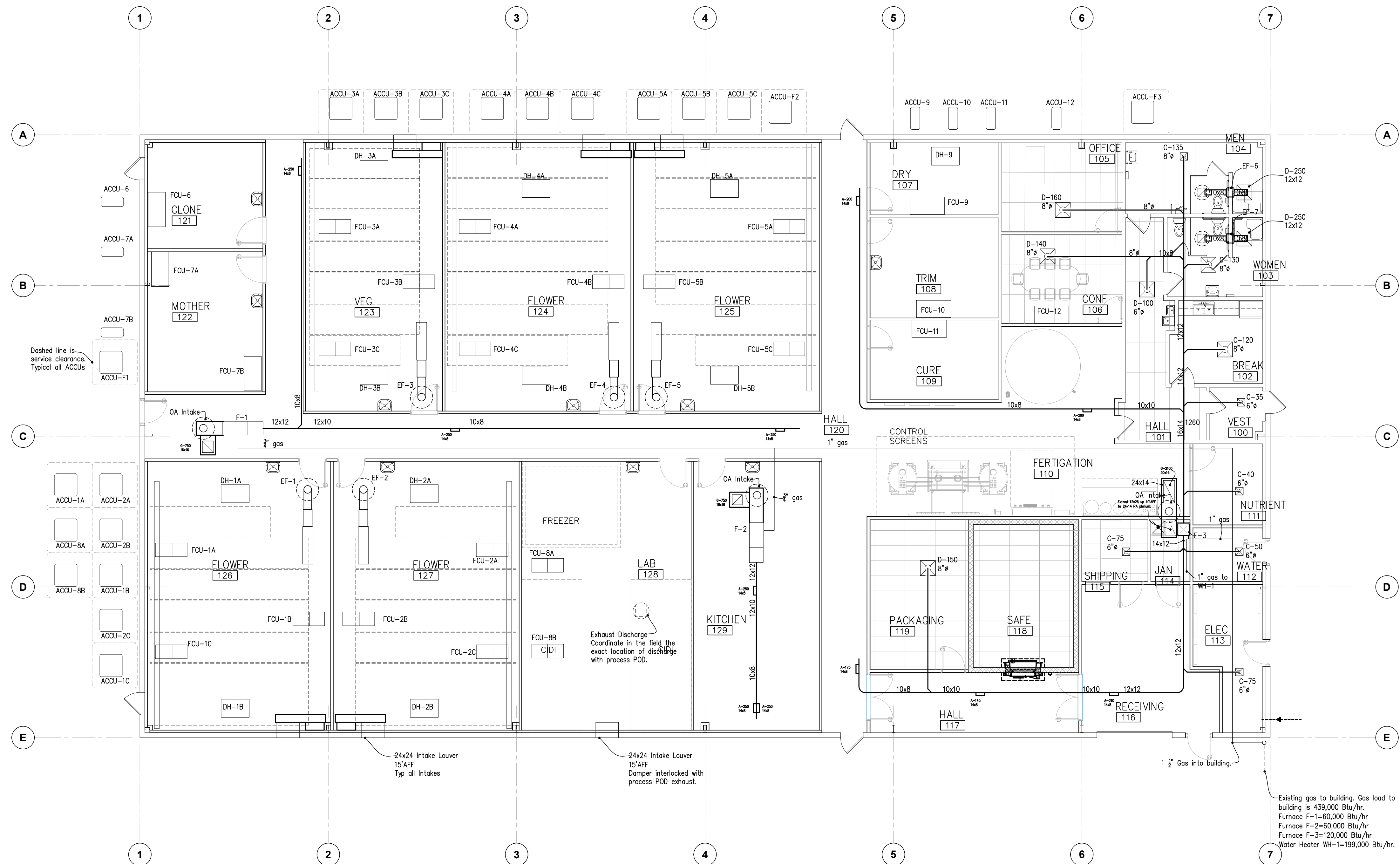
EXHAUST FAN SCHEDULE						
Symbol	CFM	ESP (in)	RPM	Voltage/ phase	Watt	Model/ Remarks
EF-1	1010	0.5	2990	120/ single	228	Equal to Can-Fan Max 10"
EF-2	1010	0.5	2990	120/ single	228	Equal to Can-Fan Max 10"
EF-3	660	0.5	3250	120/ single	179	Equal to Can-Fan Max 8"
EF-4	1010	0.5	2990	120/ single	228	Equal to Can-Fan Max 10"
EF-5	1010	0.5	2990	120/ single	228	Equal to Can-Fan Max 10"
EF-6	250	0.2	900	120/ single	83	Equal to Greenheck CSP-A250
EF-7	250	0.2	900	120/ single	83	Equal to Greenheck CSP-A250

1. EFs to be provided with roof discharge equal to Greenheck GRSR-16
2. EFs to be provided with carbon filter equal to Can-filter 125 on intake.
3. EFs to be interlocked with intake louver.
4. EF-6 and EF-7 each to be interlocked with wall mounted occupancy switch.
5. MC to provide disconnect switches for all units.

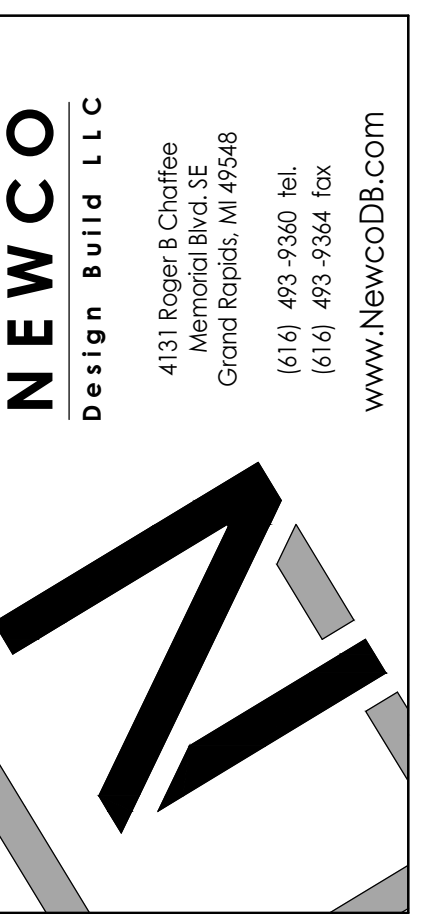
FURNACE (GAS HEAT/ DX)													
Symbol	CFM	ESP (in)	COOLING		HEATING		EAT	LAT	OA CFM (% of Total)	Voltage/ phase	Model/ Remarks	Tons	
			MBH	LDB	LWB	INPUT(MBH)	OUTPUT(MBH)						
F-1	750	0.7	24	55.0	54.5	60	57	64	120	80/10	208/ 3	Goodman model GMS-96-60-3	2
F-2	750	0.7	24	55.0	54.5	60	57	64	120	80/10	208/3	Goodman model GMS-96-60-3	2
F-3	2165	0.7	53.7	55.0	54.5	120	115	64	114	210/10	208/ 3	Goodman model GMS-96-120-5	5

1. Provide furnace discharge and intake through roof. Route and size per manufacturer's recommendation.
2. Field verify gas connection size.
3. Provide matching DX coil and condensing unit with each furnace. Condensing unit ACCU-F1 and ACCU-F2 equal to Goodman GSX13024 13 SEER.
4. Condensing unit ACCU-F3 equal to Goodman GSX13024 13 SEER.
5. Provide motorized outdoor air damper and 8" duct from RA to roof for F-1, F-2, and F-3.
6. Extend condensate line from each furnace to nearest floor drain.
7. Motorized outdoor air damper control interlocked with occupancy. Provide Greenheck GRSI-12 with 8" duct from intake on roof to F-1 and F-3 return air riser.
8. Provide each furnace with 2" MERV 8 or higher.
9. MC to provide disconnects for all Furnaces and ACCUs.

GRILLE AND DIFFUSER SCHEDULE					
Symbol	Mounting Type Surface/Lay-in	Material	Spacing	Color	Model/ Remarks
"A"	Surface	Steel	NA	White	Equal to Titus 300FS supply diffuser, neck size as noted on plans, opposed bladed damper
"B"	Surface	Steel	1/2"	White	Equal to Titus ML-39 1/2" linear supply diffuser, neck size as noted on plans, opposed bladed damper
"C"	Lay-in	Steel	NA	White	Equal to Titus 12x12 Omni supply diffuser, neck size as noted on plans, opposed bladed damper
"D"	Lay-in	Steel	NA	White	Equal to Titus 24x24 Omni supply diffuser, neck size as noted on plans, opposed bladed damper
"G"	Surface	Steel	NA	White	Equal to Titus 50R return/ exhaust grille, neck size as noted on plans, opposed bladed damper



HVAC PLAN
SCALE: 1/8" = 1'-0"
NOTE: All branches to have volume damper.

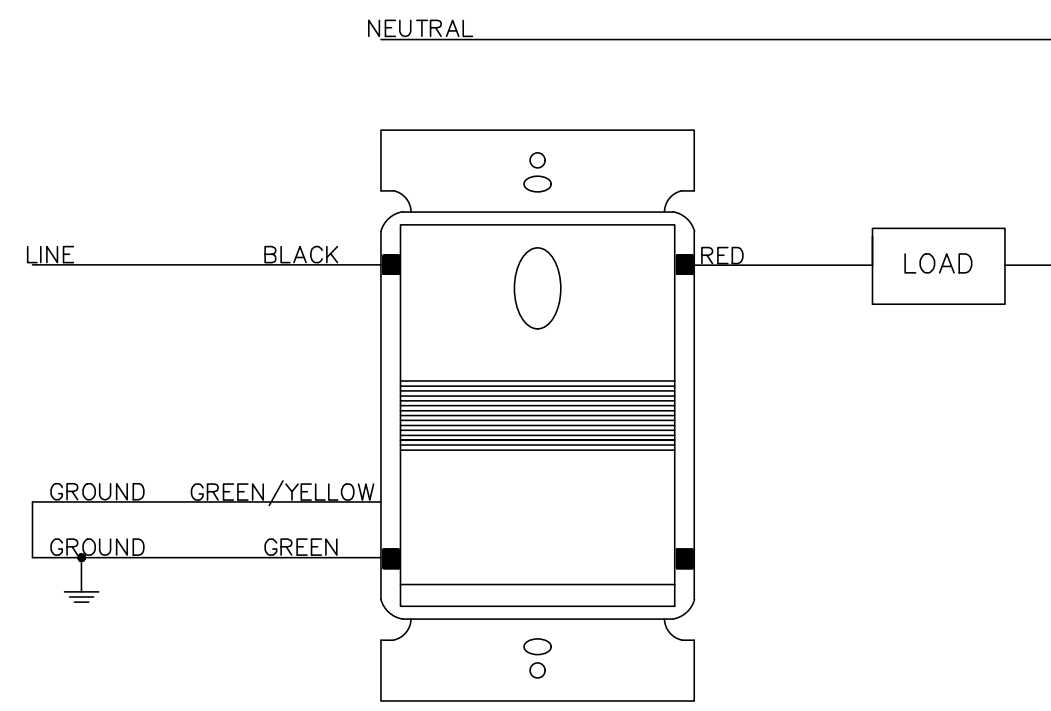


4131 Roger B. Chaffee
Grand Rapids, MI 49548
(616) 493 4360 Tel.
(616) 493 4364 Fax
www.NewcoDB.com

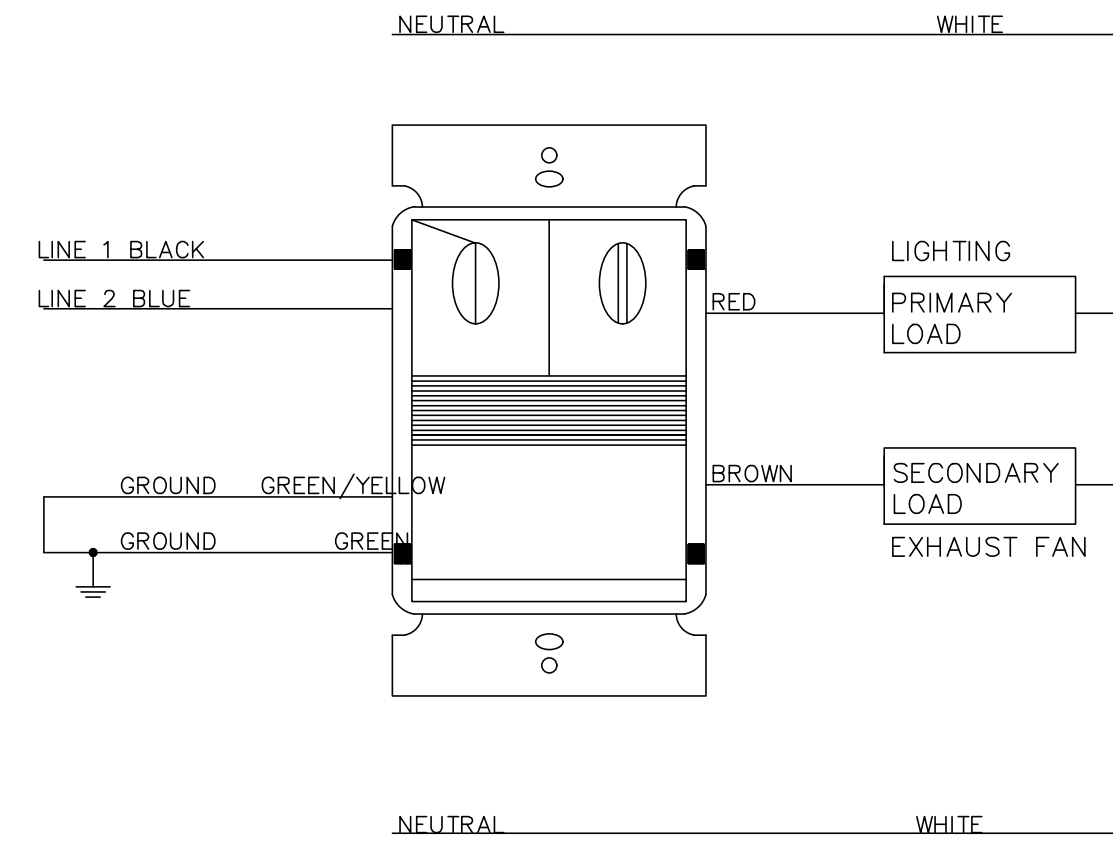
ARCHITECT: BRADFORD W. POTTER
PROJECT MANAGER: CHRISTIAN GINI
PROJECT No.: 30-00830

DATE	ISSUED FOR	#
09/06/22	PERMITS	
05/20/22	REVISED LAYOUT	
05/03/22	PRELIM LAYOUT	

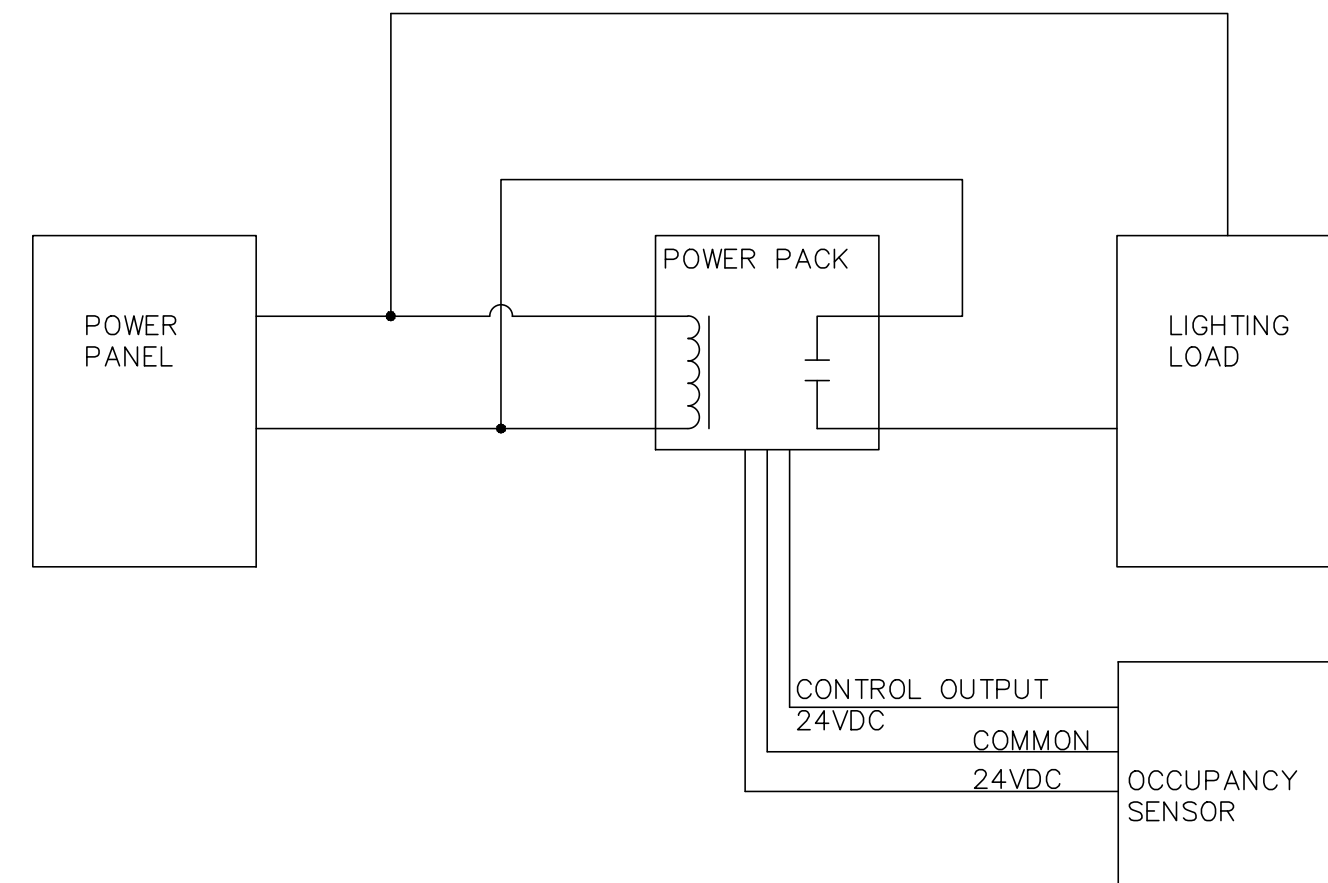
PROJECT NAME: GROW FACILITY
LESLIE, MICHIGAN
SHEET TITLE: HVAC PLANS
SHEET No.: M1



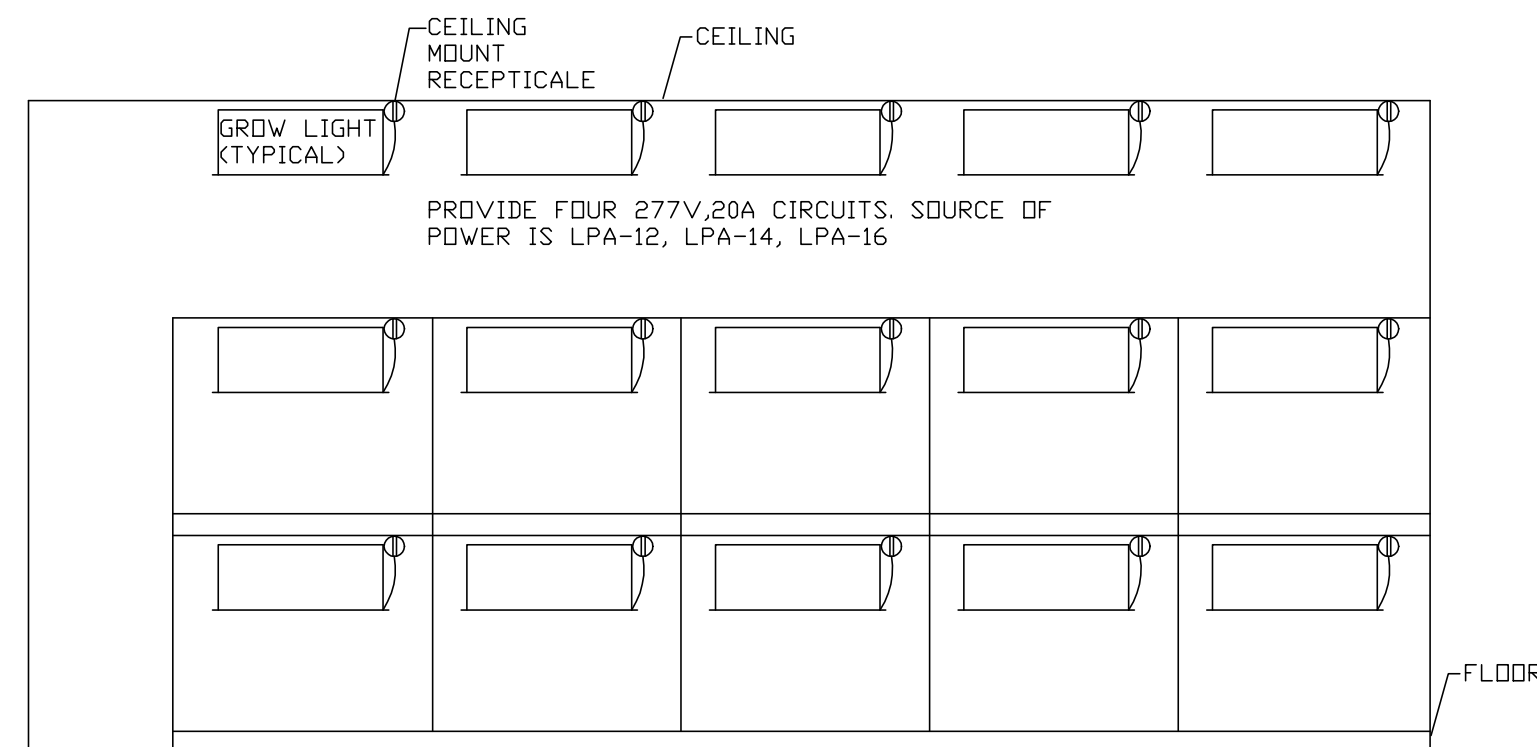
WALL MOUNTED OCCUPANCY SENSOR DETAIL



TYPICAL OCCUPANCY SENSOR & EXHAUST FAN WIRING DETAIL



OCCUPANCY SENSOR/POWER PACK DETAIL



CLONE ROOM ELEVATION

POWER LEGEND

- JUNCTION BOX - FLUSH WALL MOUNTED.
- JUNCTION BOX CONCEALED ABOVE ACCESSIBLE CEILING AREA
- INDICATES CONNECTION TO EQUIPMENT AS REQUIRED.
- SINGLE CONVENIENCE RECEPTACLE IN FLUSH WALL MOUNTED OUTLET BOX. 18" AFF.
- CEILING MOUNT DUPLEX CONVENIENCE RECEPTACLE FOR LIGHT FIXTURE 9" ABOVE FINISH FLOOR. COORDINATE EXACT HEIGHT WITH ARCHITECT
- DUPLEX CONVENIENCE RECEPTACLE IN FLUSH WALL MOUNTED OUTLET BOX. 18" AFF.
- DUPLEX CONVENIENCE RECEPTACLE IN FLUSH WALL MOUNTED OUTLET BOX. SPLIT WIRED. 18" AFF.
- FOUR - PLEX (DOUBLE DUPLEX) CONVENIENCE RECEPTACLE IN ONE FLUSH WALL MOUNTED OUTLET BOX. 18" AFF.
- FOUR - INFLOOR (DOUBLE DUPLEX) CONVENIENCE RECEPTACLE IN ONE FLUSH MOUNTED OUTLET BOX.
- SINGLE 3 PHASE RECEPTACLE. MOUNTED 18" AFF.
- DUPLEX CONVENIENCE RECEPTACLE IN FLUSH WALL MOUNTED OUTLET BOX, WITH INTERNAL GROUND FAULT INTERRUPTOR. 42" AFF.
- 400AF
400AT
3P
CIRCUIT BREAKER (C.B.), FRAME AND TRIP UNIT RATING, AND NO. OF POLES NOTED.
- 30AS
3P
30AF
FUSIBLE DISCONNECT SWITCH. SWITCH AND FUSE RATING, AND NO. OF POLES NOTED.
- 30A
FUSED SAFETY (DISCONNECT) SWITCH. HORSE POWER RATED.
- 30A
POWER OR CONTROL FUSE. AMPACITY AS NOTED.
- COMMON POINT OF CONNECTION TO EQUIPMENT.
- PANEL BOARD, ADJACENT LINE INDICATES FRONT OF PANEL.
- MOTOR, SINGLE PHASE, NUMBER INDICATES HP.
- MOTOR, 3 PHASE, NUMBER INDICATES HP.
- POWER TRANSFORMER AS REQUIRED (REFER TO SPECIFICATIONS). REFER TO DRAWING FOR VOLTAGE, CONFIGURATION, NO. OF PHASES (1 OR 3) AND KVA RATING.
WINDING CONFIGURATIONS:
 - DELTA CONNECTION, UNGROUNDED
 - WYE CONNECTION, UNGROUNDED
 - WYE CONNECTION, GROUNDED
 - WYE CONNECTION, RESISTANCE GROUNDED

LIGHTING LEGEND

- FLUORESCENT FIXTURE, RECESS MOUNTED, WITH OUTLET BOX. SEE FIXTURE SCHEDULE FOR TYPE.
- FLUORESCENT FIXTURE, SURFACE OR PENDANT MOUNTED WITH OUTLET BOX. SEE FIXTURE SCHEDULE FOR TYPE.
- FLUORESCENT STRIP FIXTURE, SURFACE OR PENDANT MOUNTED WITH OUTLET BOX. SEE FIXTURE SCHEDULE FOR TYPE.
- OS
CEILING MOUNT OCCUPANCY SENSOR
- WOS
S
WALL MOUNT OCCUPANCY SENSOR WITH ON OFF SWITCH
- CEILING MOUNT CAN FLUORESCENT FIXTURE. RECESS MOUNTED WITH OUTLET BOX. SEE FIXTURE SCHEDULE FOR TYPE.
- SINGLE-FACE EXIT SIGNS MOUNTED ON FLUSH WALL MOUNTED OUTLET BOX. 7'-6" AFF. SEE FIXTURE SCHEDULE FOR TYPE.
- DOUBLE-FACE EXIT SIGNS MOUNTED ON FLUSH WALL MOUNTED OUTLET BOX. 7'-6" AFF. SEE FIXTURE SCHEDULE FOR TYPE.
- FIXTURE WITH LAMPS ON EMERGENCY OR NIGHT LIGHT (SUBSCRIPTED "NL") CIRCUIT. PROVIDE SEPARATE LAMP BALLASTS AS REQUIRED.
- S
SINGLE POLE TOGGLE SWITCH, 42" AFF IN FLUSH WALL MOUNTED OUTLET BOX. INSTALL MULTIPLE SWITCHES UNDER COMMON COVER PLATE. SUBSCRIPT AT SWITCH SYMBOL INDICATES THE FOLLOWING.
 - 2 - DOUBLE POLE
 - 3 - THREE WAY
 - a,b,c,d, ETC... - IDENTIFICATION OF OUTLET CONTROLLED.
 - 4 - FOUR WAY
 - P - PILOT LIGHT
 - K - KEY OPERA
 - D - DIMMER STY
- DS
WALL MOUNT DIMMER SWITCH
- FROG HEAD LIGHT FIXTURE WITH BATTERY BACK UP

MISCELLANEOUS ELECTRICAL LEGEND

- COOPER-CLAD GROUND ROD. 3/4" DIAMETER, 10'-0" IN LENGTH.
- GROUND ROD WELL (10' DIAMETER, 3/4" THICK WALL) WITH A 3/4" X 10'-0" COOPER-CLAD GROUND ROD AND A CAST IRON SLOTTED GRID.
- EXOTHERMIC WELD, END OF CABLE TO STEEL COLUMN OR GROUND GRID.
- CEILING MOUNT COMMUNICATION RECEPTACLE.
- TELEPHONE/DATA OUTLET FLUSH WALL MOUNTED OUTLET BOX. 18" AFF.
- S
SPEAKER IN FLUSH CEILING MOUNTED SPEAKER HOUSING.
- T
THERMOSTAT OUTLET FLUSH WALL MOUNTED. 5'-0" AFF.

ABBREVIATIONS

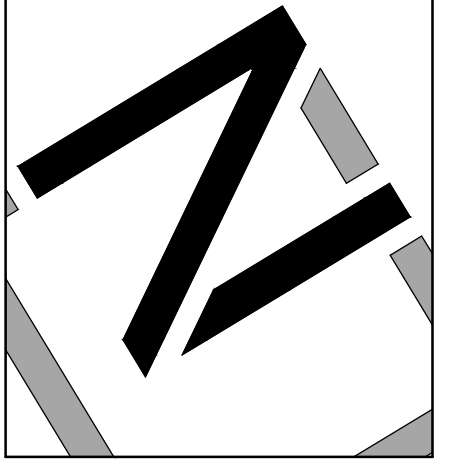
PROVIDE	FURNISH, INSTALL AND CONNECT
CO	CONDUIT ONLY
WP	WEATHERPROOF
GND	GROUND
HP	HORSEPOWER
GFI	GROUND FAULT CURRENT INTERRUPTER
V	VOLTAGE
A, AMP	AMPERE
KW	KILOWATT
KVA	KILOVOLT AMPERES
E, EX	EXISTING EQUIPMENT TO REMAIN
AFF	ABOVE FINISHED FLOOR
30AS	30 AMP SWITCH
20AF	20 AMP FUSES
3P, 1P	THREE POLE, SINGLE POLE
OL, O/L	OVERLOAD
CT	CURRENT TRANSFORMER
PT	VOLTAGE TRANSFORMER
WH	WATT-HOUR METER
AM, AS	AMMETER, AMMETER SWITCH
VM, VS	VOLTAGE METER, VOLTMETER SWITCH
MCP	MOTOR CIRCUIT PROTECTION
ETM	ELASPED TIME METER
3C/#18	3 CONDUCTOR #18 AWG WIRE
1PR18TS	1 PAIR OF #18 TWISTED, SHIELED

NEWCO
Design Build LLC
4131 Roger B Chaffee
Memorial Blvd SE
Grand Rapids, MI 49548
(616) 483-8360 tel
(616) 483-8364 fax
www.NewcoDB.com

ARCHITECT: BRADFORD W. POTTER
PROJECT MANAGER: CHRISTIAN CINI
PROJECT No.: 30-00830

#	DATE	ISSUED FOR
09/06/22	PERMITS	
05/10/22	REVISED LAYOUT	
05/03/22	PRELIM LAYOUT	

PROJECT NAME: GROW FACILITY
LESLIE, MICHIGAN
SHEET TITLE: ELECTRICAL LEGEND



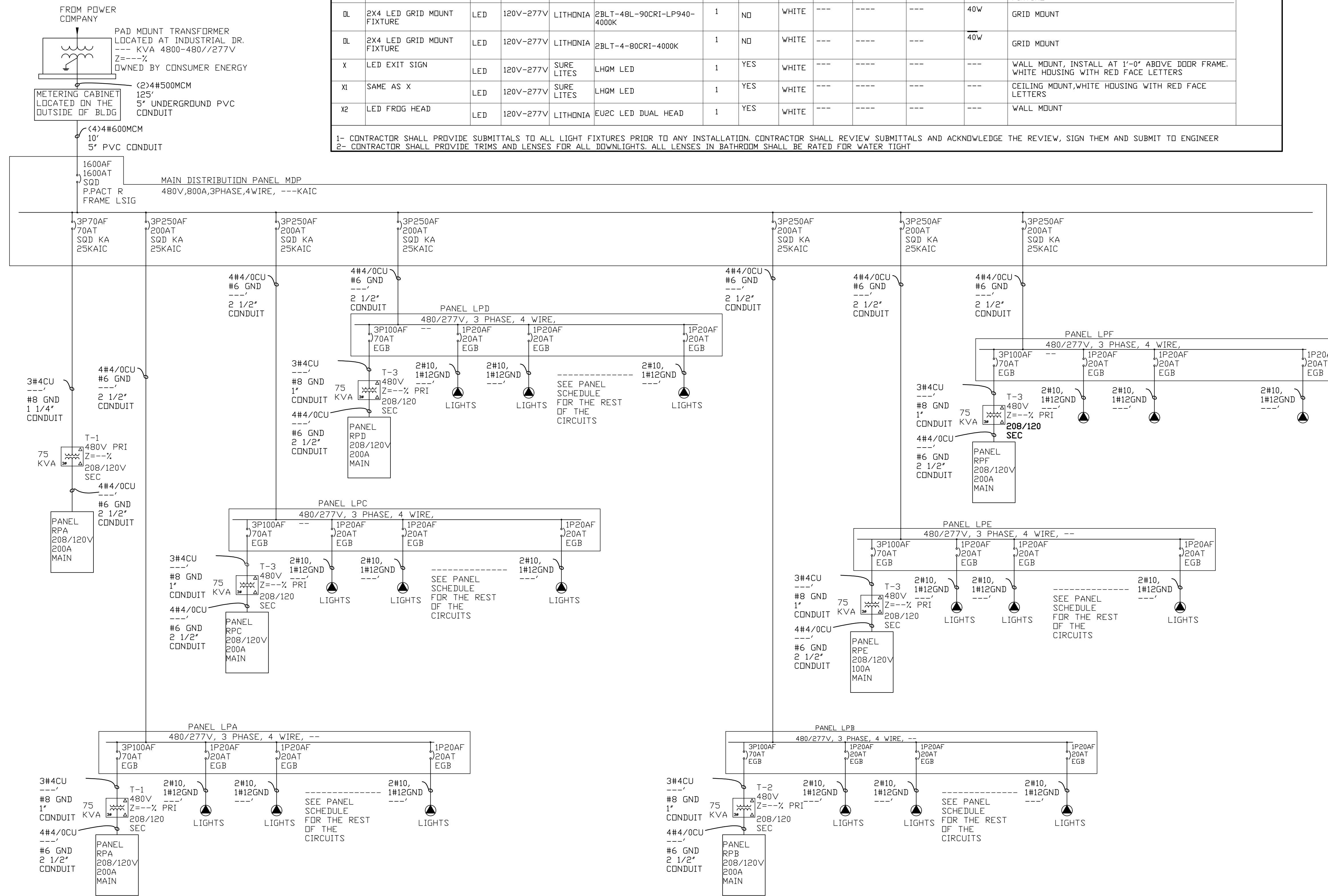
ARCHITECT: BRADFORD W. POTTER
PROJECT MANAGER: CHRISTIAN CINI
PROJECT No.: 30-00830

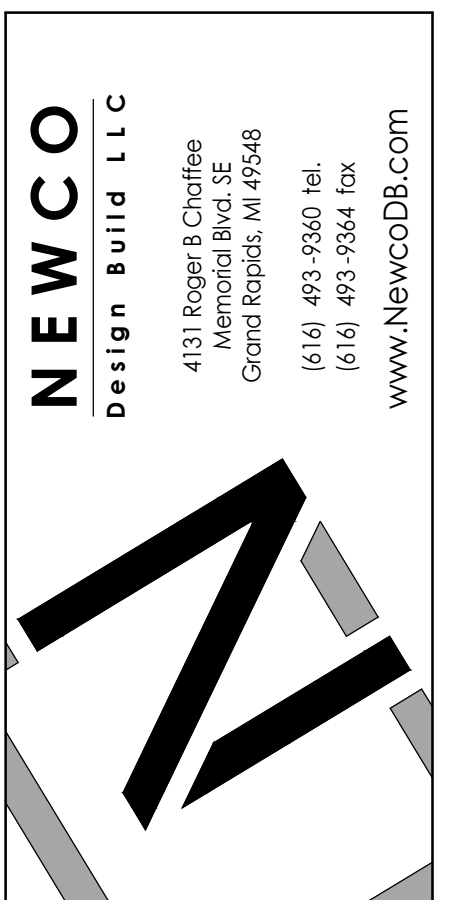
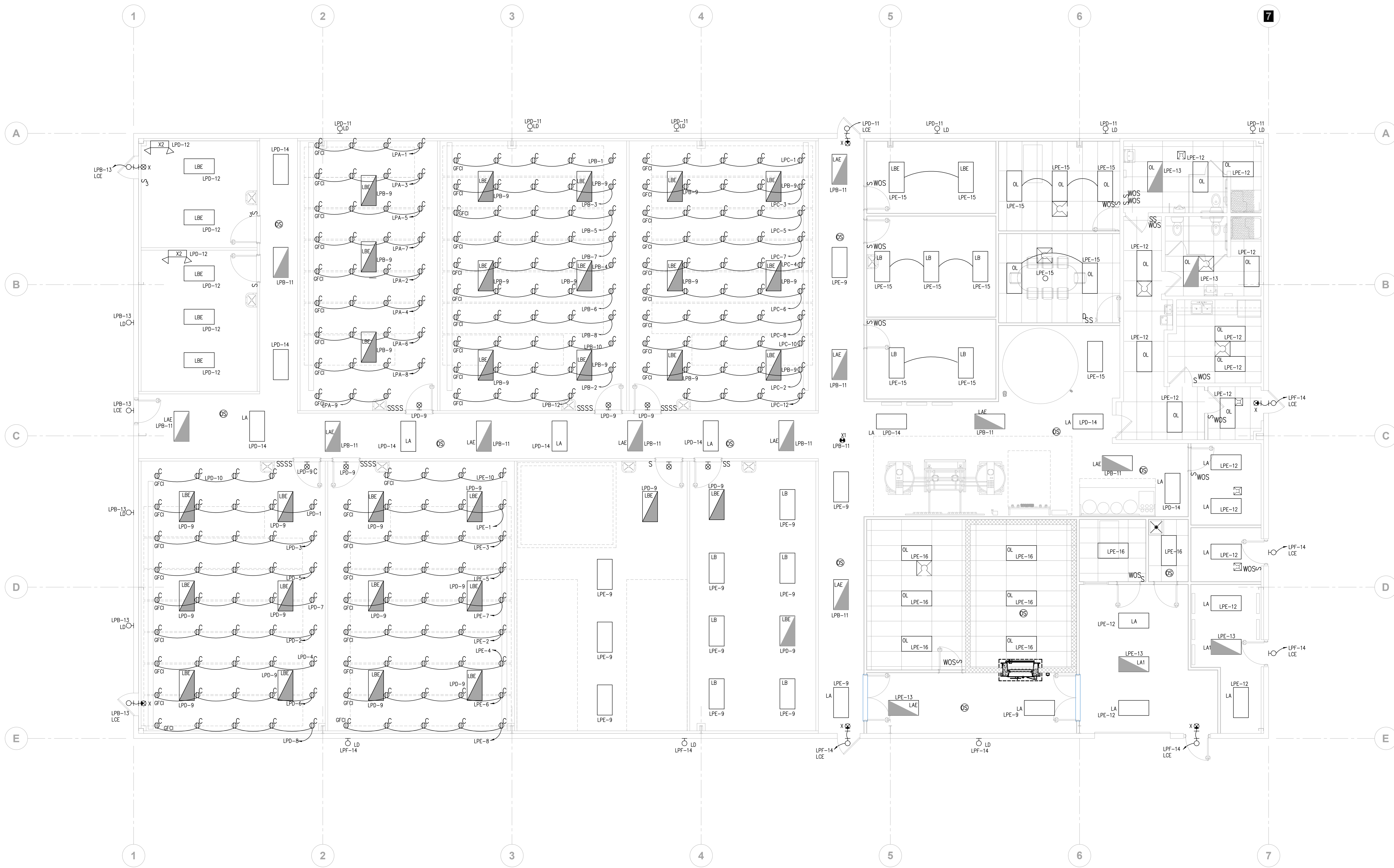
#	DATE	ISSUED FOR
09/06/22	PERMITS	
05/20/22	REVISED LAYOUT	
05/03/22	PRELIM LAYOUT	

PROJECT NAME: **GROW FACILITY**
LESLIE, MICHIGAN
SHEET TITLE: **ELECTRICAL ONE-LINE**

IDENTIF	DESCRIPTION	LAMPS	VOLTAGE	MANUFACT	PART NUMBER	DRIVER	BATTERY PACK	FINISH	BALLAST	MOUNTING HEIGHT	LAMPS INFO	WATTAGE	COMMENTS
LA	4' LED CHAIN HUNG FIXTURE	LED	120V-277V	METALUX	4SNLED-LD5-54HL-LN-UNV-L840-CD1-U-AYC	1	NO	WHITE	0-10V	9 FEET AFF	4000 LUMENS 40W,4000K	40W	RECESSED MOUNT, COORDINATE WITH DWNER
LAE	4' LED CHAIN HUNG FIXTURE	LED	120V-277V	METALUX	4SNLED-LD5-41SL-LW-UNV-EL14W-L840-CD-AYC	1	YES	WHITE	0-10V	9 FEET AFF	4000 LUMENS 40W,4000K	40W	SURFACE MOUNT, COORDINATE WITH DWNER. PROVIDE WITH BATTERY PACK
LB	4' LED CHAIN HUNG GREEN FIXTURE	LED	120V-277V	LOUVERS	ADV-4-2-LED-48W-5K-FR-SM	1	YES	WHITE	0-10V	9 FEET AFF	4151 LUMENS 32W,4000K	32W	SURFACE MOUNT, COORDINATE WITH DWNER.
LBE	4' LED CHAIN HUNG GREEN FIXTURE	LED	120V-277V	LOUVERS	ADV-4-2-LED-48W-5K-EM-FR-SM	1	YES	WHITE	0-10V	9 FEET AFF	4151 LUMENS 32W,4000K	32W	SURFACE MOUNT, COORDINATE WITH DWNER. PROVIDE WITH BATTERY PACK
LCE	EXTERIOR WALL PACK FIXTURE	LED	120V-277V	MCGRAW EDISON	ISS-SAI-450-LED-U-T4FT-BZ-CBP	1	YES	WHITE	0-10V	1' ABOVE DOOR	3000 LUMENS 29W,4000K	29W	RECESSED, COORDINATE WITH DWNER PROVIDE WITH BATTERY BACKUP. MOUNT AT 1' ABOVE DOOR FRAME
LD	LED EXTERIOR WALL MOUNTED SITE LIGHT FIXTURE	LED	120V-277V	MCGRAW EDISON	GWC-AF-01-LED-E1-SL2-BZ-600	1	NO	WHITE	0-10	1' BELOW ROOF LINE	4,196 LUMENS 587W,4000K	587W	SURFACE MOUNT.COORDINATE WITH DWNER IN REGARD TO MOUNTING HEIGHT, PROVIDE ONE PHOTO EYE PER FIXTURE
DL	2X4 LED GRID MOUNT FIXTURE	LED	120V-277V	LITHONIA	2BLT-48L-90CRI-LP940-4000K	1	NO	WHITE	---	---	---	40W	GRID MOUNT
DL	2X4 LED GRID MOUNT FIXTURE	LED	120V-277V	LITHONIA	2BLT-4-80CRI-4000K	1	NO	WHITE	---	---	---	40W	GRID MOUNT
X	LED EXIT SIGN	LED	120V-277V	SURE LITES	LHQM LED	1	YES	WHITE	---	---	---	---	WALL MOUNT. INSTALL AT 1'-0" ABOVE DOOR FRAME. WHITE HOUSING WITH RED FACE LETTERS
XI	SAME AS X	LED	120V-277V	SURE LITES	LHQM LED	1	YES	WHITE	---	---	---	---	CEILING MOUNT,WHITE HOUSING WITH RED FACE LETTERS
X2	LED FRDG HEAD	LED	120V-277V	LITHONIA	EU2C LED DUAL HEAD	1	YES	WHITE	---	---	---	---	WALL MOUNT

1- CONTRACTOR SHALL PROVIDE SUBMITTALS TO ALL LIGHT FIXTURES PRIOR TO ANY INSTALLATION. CONTRACTOR SHALL REVIEW SUBMITTALS AND ACKNOWLEDGE THE REVIEW, SIGN THEM AND SUBMIT TO ENGINEER
2- CONTRACTOR SHALL PROVIDE TRIMS AND LENSES FOR ALL DOWNLIGHTS. ALL LENSES IN BATHROOM SHALL BE RATED FOR WATER TIGHT





NEWCO
Design Build LLC
4131 Roger B. Chaffee
Industrial Center
Grand Rapids, MI 49548
(616) 493-9360 Tel.
(616) 493-9364 Fax
www.NewcoDB.com

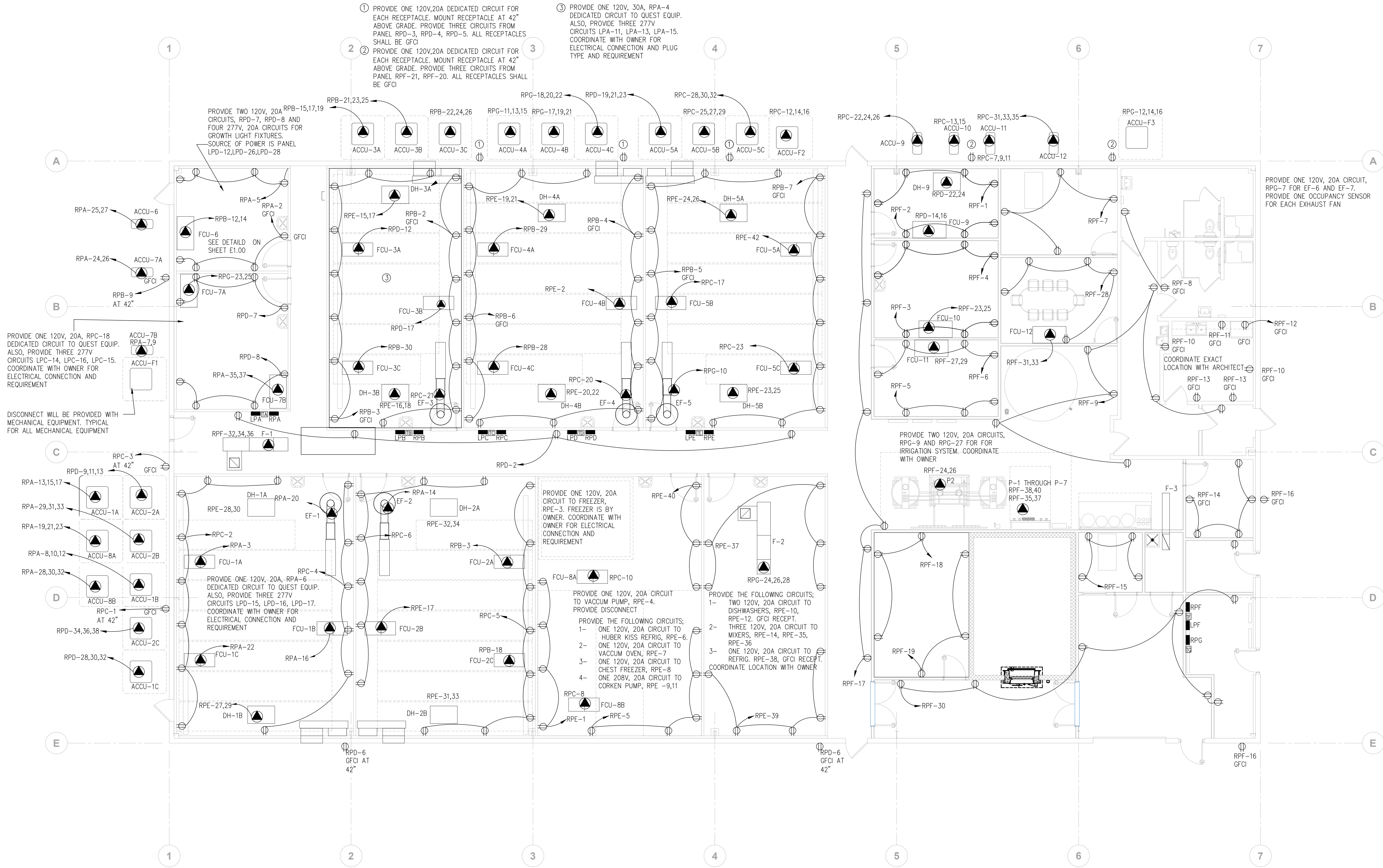
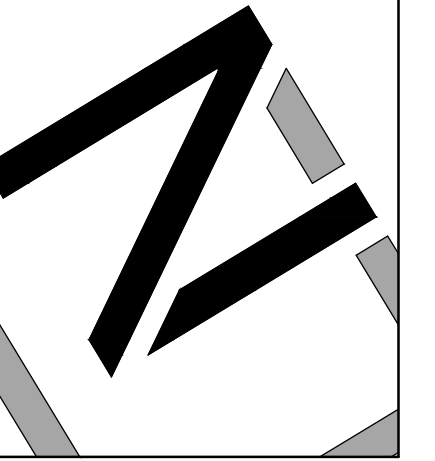
ARCHITECT: BRADFORD W. POTTER	PROJECT No.: 30-00830
PROJECT MANAGER: CHRISTIAN CINI	

#	DATE	ISSUED FOR
09/06/22	PERMITS	
05/20/22	REVISED LAYOUT	
05/03/22	PRELIM LAYOUT	

PROJECT NAME:
GROW FACILITY
LESLIE, MICHIGAN

SHEET TITLE:
ELECTRICAL PLANS

SHEET No.:
E5.01



- ① PROVIDE ONE 120V, 20A DEDICATED CIRCUIT FOR EACH RECEPTACLE. MOUNT RECEPTACLE AT 42" ABOVE GRADE. PROVIDE THREE CIRCUITS FROM PANEL RPD-3, RPD-4, RPD-5. ALL RECEPTACLES SHALL BE GFCI
- ② PROVIDE ONE 120V, 20A DEDICATED CIRCUIT FOR EACH RECEPTACLE. MOUNT RECEPTACLE AT 42" ABOVE GRADE. PROVIDE THREE CIRCUITS FROM PANEL RPF-21, RPF-20. ALL RECEPTACLES SHALL BE GFCI
- ③ PROVIDE ONE 120V, 30A, RPA-4 DEDICATED CIRCUIT TO QUEST EQUIP. ALSO, PROVIDE THREE 277V CIRCUITS LPA-11, LPA-13, LPA-15. COORDINATE WITH OWNER FOR ELECTRICAL CONNECTION AND PLUG TYPE AND REQUIREMENT

PROVIDE TWO 120V, 20A CIRCUITS, RPD-7, RPD-8 AND FOUR 277V, 20A CIRCUITS FOR GROWTH LIGHT FIXTURES. SOURCE OF POWER IS PANEL LPD-12, LPD-26, LPD-28

PROVIDE ONE 120V, 20A, RPC-18 DEDICATED CIRCUIT TO QUEST EQUIP. ALSO, PROVIDE THREE 277V CIRCUITS LPC-14, LPC-16, LPC-15. COORDINATE WITH OWNER FOR ELECTRICAL CONNECTION AND REQUIREMENT

DISCONNECT WILL BE PROVIDED WITH MECHANICAL EQUIPMENT. TYPICAL FOR ALL MECHANICAL EQUIPMENT

PROVIDE ONE 120V, 20A CIRCUIT TO FREEZER, RPE-3. FREEZER IS BY OWNER. COORDINATE WITH OWNER FOR ELECTRICAL CONNECTION AND REQUIREMENT

PROVIDE ONE 120V, 20A CIRCUIT TO VACUUM PUMP, RPE-4. PROVIDE DISCONNECT

PROVIDE THE FOLLOWING CIRCUITS;

- 1- ONE 120V, 20A CIRCUIT TO HUBER KISS REFRIG, RPE-6.
- 2- ONE 120V, 20A CIRCUIT TO VACUUM OVEN, RPE-7
- 3- ONE 120V, 20A CIRCUIT TO CHEST FREEZER, RPE-8
- 4- ONE 208V, 20A CIRCUIT TO CORKEN PUMP, RPE -9,11

PROVIDE THE FOLLOWING CIRCUITS;

- 1- TWO 120V, 20A CIRCUIT TO DISHWASHERS, RPE-10, RPE-12. GFCI RECEPT.
- 2- THREE 120V, 20A CIRCUIT TO MIXERS, RPE-14, RPE-35, RPE-36
- 3- ONE 120V, 20A CIRCUIT TO REFRIG. RPE-38, GFCI RECEPT. COORDINATE LOCATION WITH OWNER

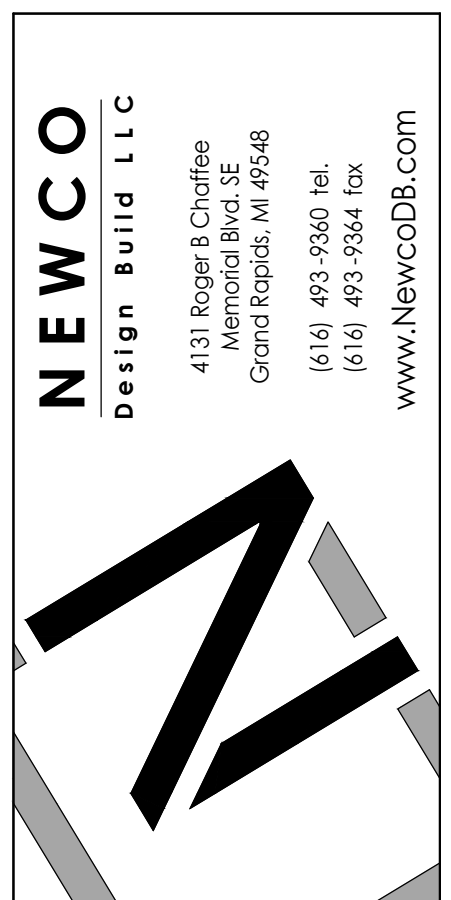
PROVIDE ONE 120V, 20A CIRCUIT, RPE-7 FOR EF-6 AND EF-7. PROVIDE ONE OCCUPANCY SENSOR FOR EACH EXHAUST FAN

PROVIDE TWO 120V, 20A CIRCUITS, RPC-9 AND RPC-27 FOR FOR IRRIGATION SYSTEM. COORDINATE WITH OWNER

COORDINATE EXACT LOCATION WITH ARCHITECT

ARCHITECT:	BRADFORD W. POTTER
PROJECT MANAGER:	CHRISTIAN CINI
PROJECT No.:	30-00830

DATE	ISSUED FOR	#	DATE	ISSUED FOR
09/06/22	PERMITS			
05/20/22	REVISED LAYOUT			
05/03/22	PRELIM LAYOUT			



NEWCO
Design Build LLC
4131 Roger B Chaffee
Memorial Blvd
Grand Rapids, MI 49548
(616) 493-9360 Tel.
(616) 493-9364 Fax
www.newcodb.com

SEAL:
ARCHITECT:
BRADFORD W. POTTER
PROJECT MANAGER:
CHRISTIAN CINI
PROJECT No.:
30-00830

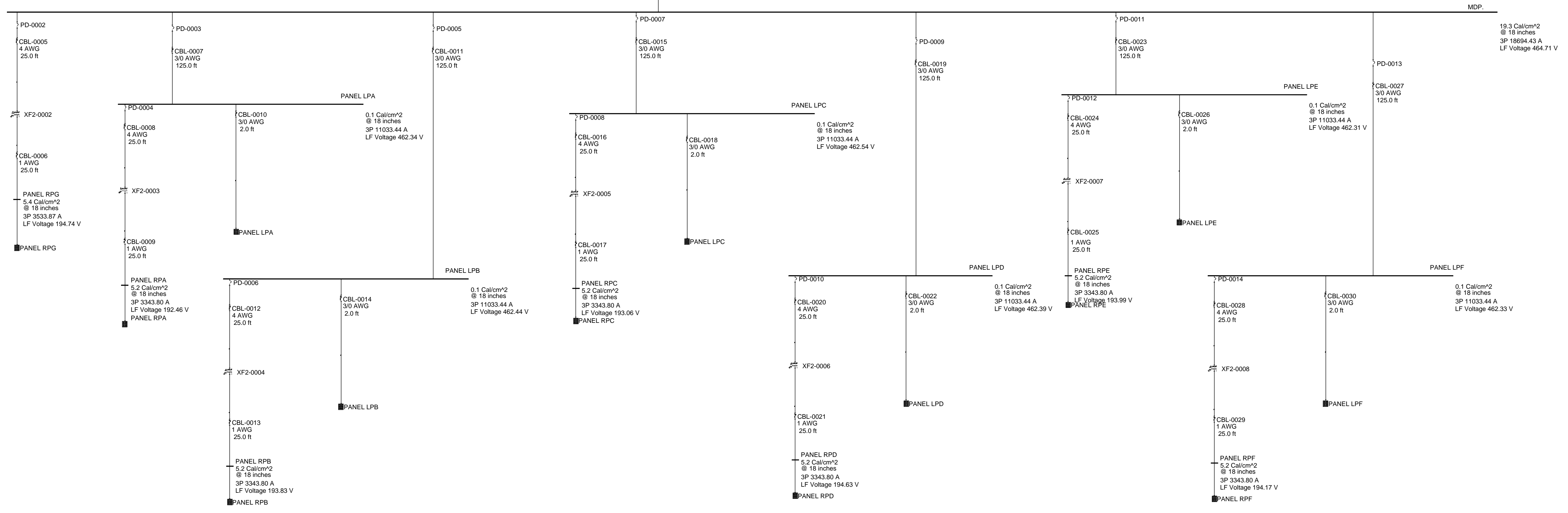
#	DATE	ISSUED FOR
09/06/22	PERMITS	
05/20/22	REVISED LAYOUT	
05/03/22	PRELIM LAYOUT	

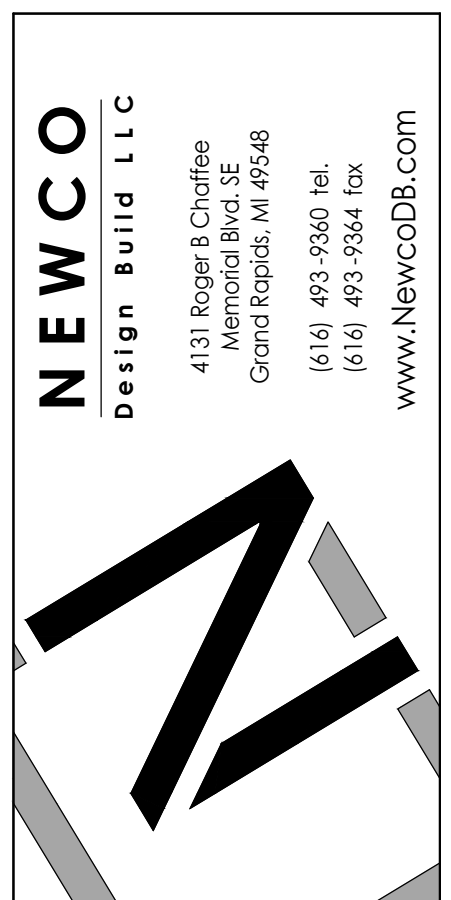
PROJECT NAME:
GROW FACILITY
LESLIE, MICHIGAN
SHEET TITLE:
ARC FLASH ONE-LINE

SHEET No.:
E7.01

UTIL-0001
T-1 PRIMARY
706541.3 Cal/cm²
@ 36 inches
3P 120281296.00 A
LF Voltage 4890.00 V
XF2-0001
T-1 SECONDARY
24 Cal/cm²
@ 18 inches
3P 24055.71 A
LF Voltage 468.11 V
CBL-0001
500 kcmil
125.0 ft
OUTDOOR METERING CABINET
22.2 Cal/cm²
@ 18 inches
3P 19552.48 A
LF Voltage 465.56 V
CBL-0002
500 kcmil
10.0 ft
1800A SERVICE DISCONNECT
22.1 Cal/cm²
@ 18 inches
3P 19258.47 A
LF Voltage 465.28 V
CBL-0003
500 kcmil
10.0 ft
MDP
22 Cal/cm²
@ 18 inches
3P 18972.56 A
LF Voltage 465.00 V
CBL-0004
500 kcmil
10.0 ft
PD-0001

ARC FLASH AND SHORDT CIRCUIT CALCS
ONE LINE DIAGRAM
09-09-2022





NEWCO
Design Build LLC
4131 Roger B Chaffee
Memorial Blvd, N. #2548
Grand Rapids, MI 49548
(616) 493-9360 Tel.
(616) 493-9364 Fax
www.NewcoDB.com

ARCHITECT:
BRADFORD W. POTTER

PROJECT MANAGER:
CHRISTIAN CINI

PROJECT No.:
30-00830

#	DATE	ISSUED FOR
09/06/22	PERMITS	
05/20/22	REVISED LAYOUT	
05/03/22	PRELIM LAYOUT	

PROJECT NAME:
GROW FACILITY
LESLIE, MICHIGAN

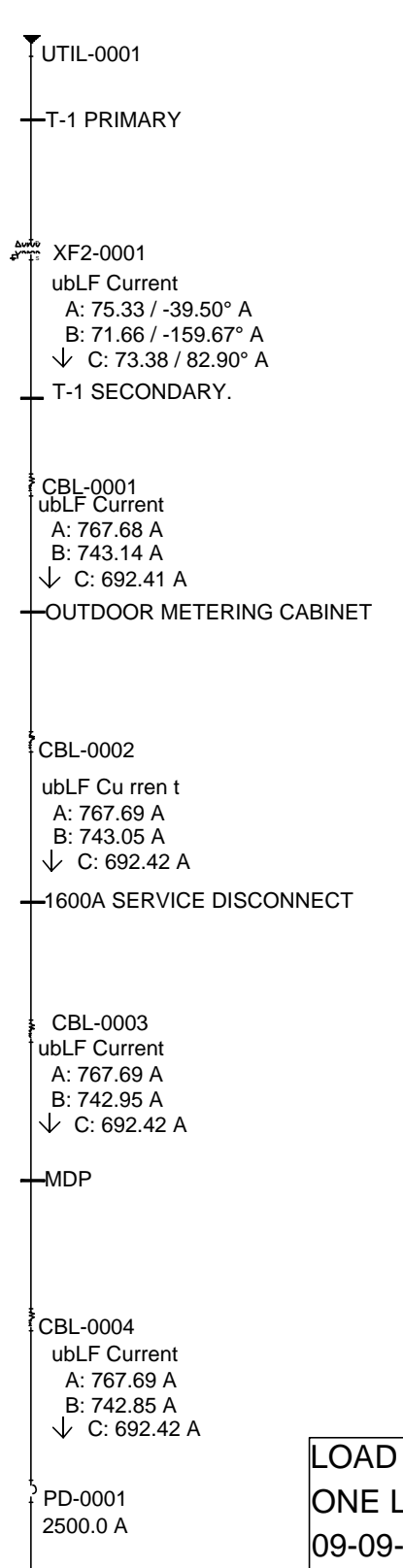
SHEET TITLE:
**LOAD FLOW FLASH ANALYSIS
ONE-LINE &
LOAD SCHEDULE**

SHEET No.:
E8.01

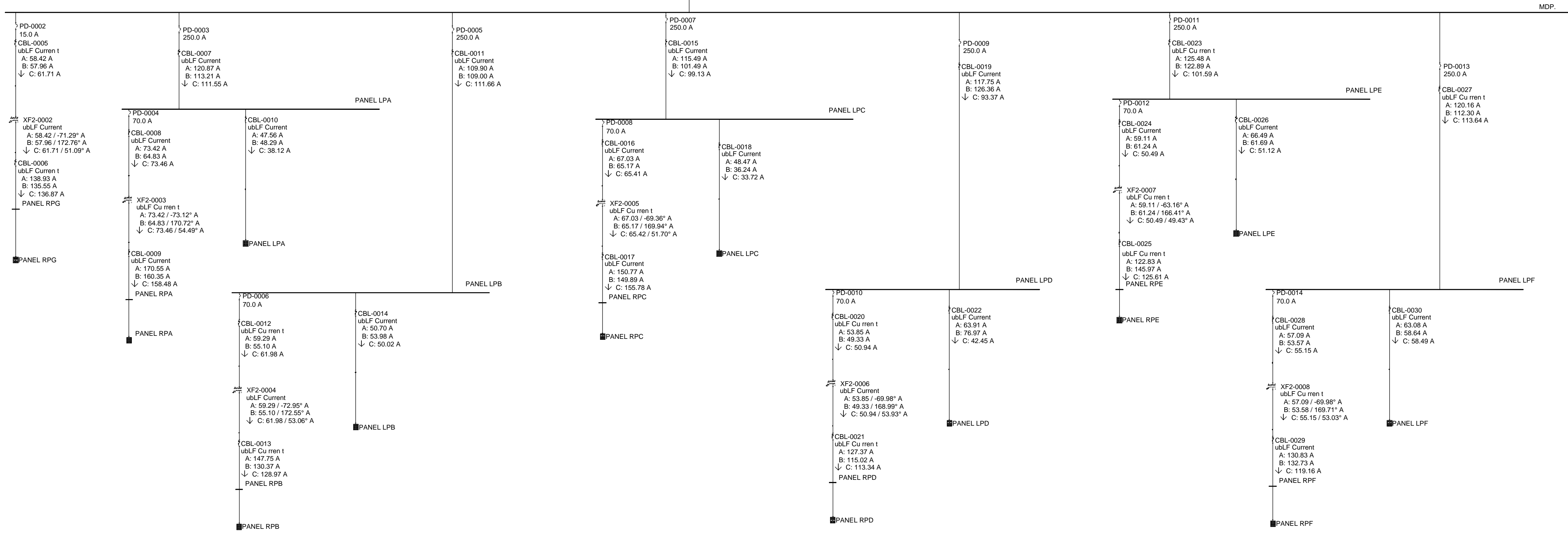
PANEL SCHEDULE: PANEA

OC	NOTES	DESCRIPTION	DEMAND VA	CKT	PHASE LOADS VA	CKT	DEMAND DESCRIPTION	NOTES	OC
AMPS P			A	B	C				AMPS P
201	VEG 123	1 Pole	LIGHTIN 2520 1	5040	2	2520	LIGHTIN 1 Pole	VEG 123	201
201	VEG 123	1 Pole	LIGHTIN 2520 3	5040	4	2520	LIGHTIN 1 Pole	VEG 123	201
201	VEG 123	1 Pole	LIGHTIN 2520 5	5040	6	2520	LIGHTIN 1 Pole	VEG 123	201
201	VEG 123	1 Pole	LIGHTIN 2520 7	5040	8	2520	LIGHTIN 1 Pole	VEG 123	201
201	VEG 123	1 Pole	LIGHTIN 1935 9	5261	10	3326	GENERAL 1 Pole	QUEST EQUIP	201
201	SPARE	1 Pole	GENERAL 0 11	2580	12	2580	LIGHTIN 1 Pole	CLONE ROOM	201
201	SPARE	1 Pole	GENERAL 0 13	2580	14	2580	LIGHTIN 1 Pole	CLONE ROOM	201
201	SPARE	1 Pole	GENERAL 0 15	2580	16	2580	LIGHTIN 1 Pole	CLONE ROOM	201
201	SPARE	1 Pole	GENERAL 0 17	2580	18	2580	LIGHTIN 1 Pole	CLONE ROOM	201
201	SPARE	1 Pole	GENERAL 0 19	0	20	0	GENERAL 1 Pole	SPARE	201
201	SPARE	1 Pole	GENERAL 0 21	0	22	0	GENERAL 1 Pole	SPARE	201
201	SPARE	1 Pole	GENERAL 0 23	0	24	0	GENERAL 1 Pole	SPARE	201
201	SPARE	1 Pole	GENERAL 0 25	0	26	0	GENERAL 1 Pole	SPARE	201
				27					
				28					
				29					
				31					
				33					
				35					
				37					
				39					
				41					
				42					

ALL CONNECTED	KVA	3P AVE AMPS	*PHASE TOTALS	VA	AMPS	BUS TOTALS	KVA
TOTAL CONNECTED	35.74	43.0	*A-N	12660.0	45.7	CONNECTED	35.74
TOTAL DEMAND	35.74	43.0	*B-N	12880.5	46.5	DEMAND	35.74
TOTAL DESIGN	43.84	52.7	*C-N	10200.0	36.8	DESIGN	43.84



LOAD FLOW ANALYSIS
ONE LINE DIAGRAM
09-09-2022



MDP.