OHIO VALLEY EDUCATIONAL CO-OP

Building Addition and Renovation Project for:

7304 Dixie Hwy.
Louisville, KY 40258

ska# 2019-52.06

studio

PROJECT TEAM:

ARCHITECT:

studio kremer architects
1231 S. Shelby Street
Louisville, KY 40203
502.499.1100
CONTACT: Jeremy Adams

SCOTT EDWARD KREMER
REGISTERED
NO. 4634
COMMONWEALTH OF KENTUCKY
ARCHITECT

OWNER:

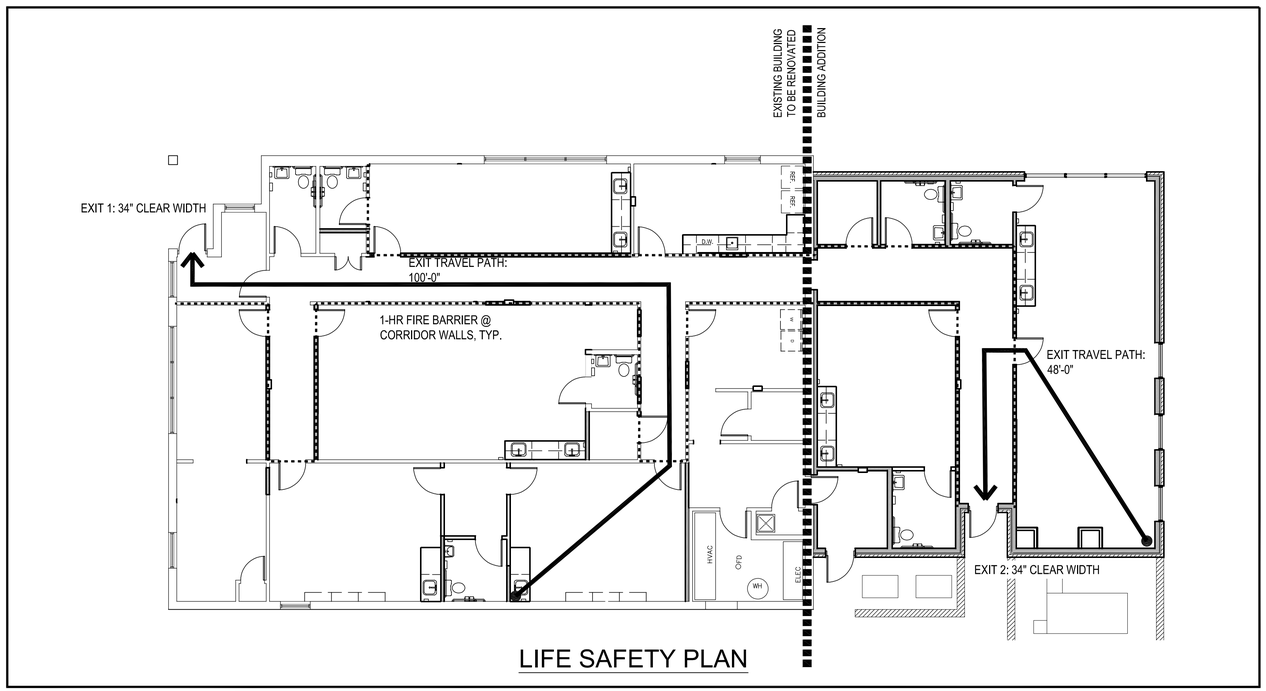
Ohio Valley Educational Co-Op
100 Alpine Rd
Shelbyville, KY 40065
502.647.3533
CONTACT:

MEP ENGINEER:

Pharis Engineering
7110 Austinwood Road
Louisville, KY 40214
502.471.7963
CONTACT: Keith Pharis

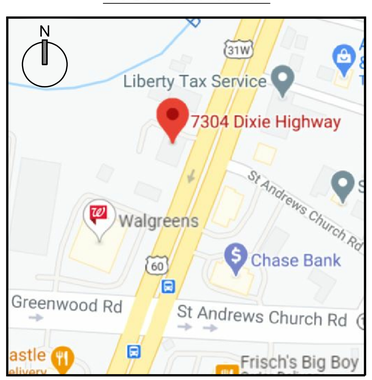
CIVIL ENGINEER:

Land, Design & Development
503 Washburn Avenue, Suite 101
Louisville, KY 40222
502.426.9374
CONTACT: Eric Bartley



LIFE SAFETY PLAN

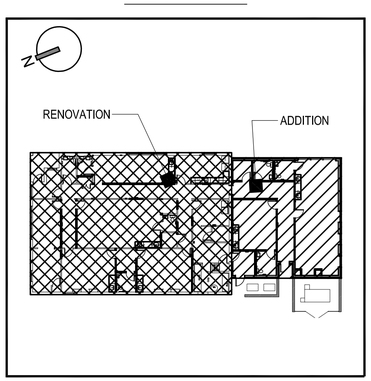
VICINITY MAP



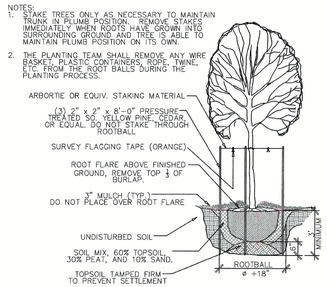
CODE INFORMATION

1. ALL APPLICABLE CODES:
   2018 KENTUCKY BUILDING CODE
   KENTUCKY PLUMBING CODE - CURRENT EDITION
   NATIONAL ELECTRIC CODE - CURRENT EDITION
   ANSI 117.1 2013 EDITION
2. CONSTRUCTION TYPE: 5B
3. OCCUPANCY GROUP:
   "E" EDUCATIONAL
4. TOTAL OCCUPANT LOAD (PER SECTION 427.4, CLIENT LOAD): 75
   CLASSROOM AREA: 2,349
   STUDENTS = 67
   TEACHERS= 8
   TOTAL = 75
5. BUILDING ADDITION FOOTPRINT: 1,665 SQFT
   EXISTING BUILDING FOOTPRINT: 3,580 SQUARE FEET (+/-)
   TOTAL FOOT PRINT: **5,245 SQFT(+/-)**
6. BUILDING DOES NOT INCLUDE A FIRE SPRINKLER SYSTEM
7. CORRIDOR WALLS SHALL BE 1-HR FIRE BARRIER WALLS w/ 45-MINUTE FIRE RATED DOORS AND FRAMES w/ CLOSERS. CORRIDOR CEILINGS SHALL BE PROVIDED w/ (2) LAYERS OF $\frac{5}{8}$" TYPE-X GWB ON RC CHANNEL.
8. NUMBER OF EXITS PROVIDED: 2

KEY PLAN

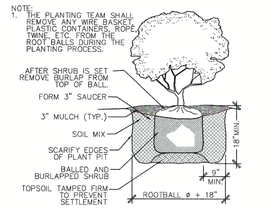


LIST OF DRAWINGS:



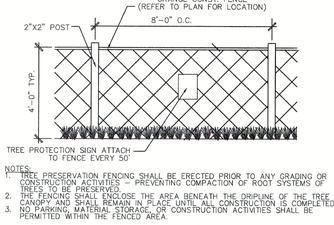
TYPICAL TREE PLANTING & STAKING

N.T.S.



TYPICAL SHRUB PLANTING DETAIL

N.T.S.



TREE PRESERVATION FENCE DETAIL

N.T.S.

TREE CANOPY PROTECTION AREA (TCPA/TCCA):

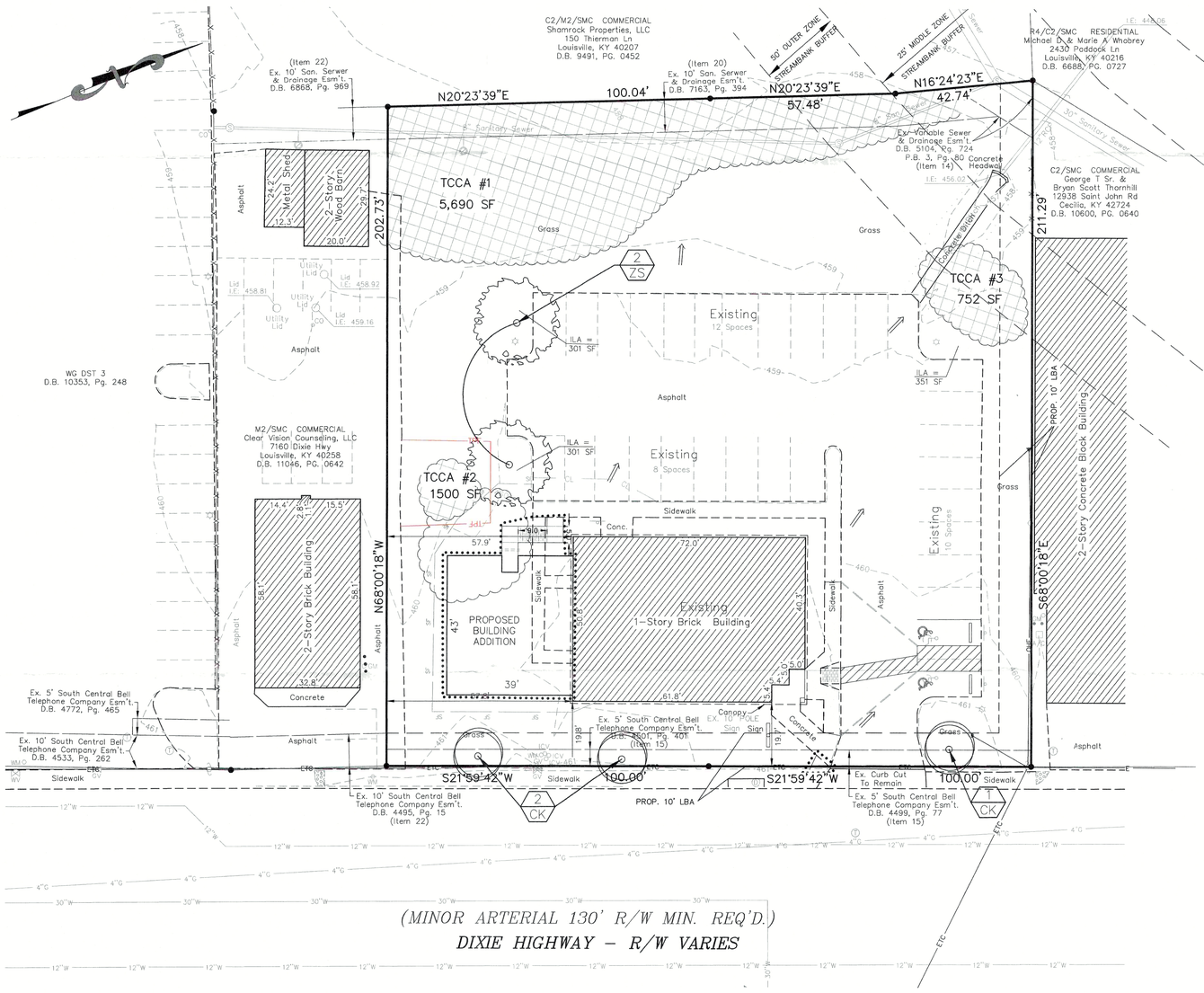
1. TREE CANOPY PROTECTION AREAS (TCPAs)/TREE CANOPY CREDIT AREAS (TCCAs) IDENTIFIED ON THIS PLAN REPRESENT PORTIONS OF THE SITE DESIGNATED TO MEET THE TREE CANOPY REQUIREMENTS OF CHAPTER 10, PART 1 OF THE LAND DEVELOPMENT CODE AND ARE TO BE PERMANENTLY PROTECTED. ALL CLEARING, GRADING, AND FILL ACTIVITY IN THESE AREAS MUST BE IN KEEPING WITH RESTRICTIONS ESTABLISHED AT THE TIME OF PLAN APPROVAL. AS TREES WITHIN THE TCPAs/TCCAs ARE LOST THROUGH NATURAL CAUSES, NEW TREES SHALL BE PLANTED IN ORDER TO MAINTAIN MINIMUM TREE CANOPY AS SPECIFIED ON THE APPROVED DEVELOPMENT OR PRELIMINARY SUBDIVISION PLAN.
2. DIMENSION LINES HAVE BEEN USED ON THIS PLAN TO ESTABLISH THE GENERAL LOCATION OF TCPAs/TCCAs AND REPRESENT MINIMUM DISTANCES. THE FINAL BOUNDARY FOR EACH TCPA/TCCA SHALL BE ESTABLISHED IN THE FIELD TO INCLUDE CANOPY AREA OF ALL TREES AT OR WITHIN THE DIMENSION LINE.
3. TO PROTECT THE EXISTING TREE STANDS AND THEIR ROOT SYSTEMS, TREE PROTECTION FENCING SHALL BE ERECTED ADJACENT TO ALL TCPAs/TCCAs PRIOR TO SITE DISTURBANCE APPROVAL. THE FENCING SHALL BE LOCATED AT LEAST THREE (3) FEET FROM THE OUTSIDE EDGE OF THE TREE CANOPY AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IS COMPLETED.
4. NO PARKING, MATERIAL STORAGE, OR CONSTRUCTION ACTIVITIES ARE PERMITTED WITHIN TCPAs/TCCAs AREAS.
5. REMOVAL OF TREES SHOWN TO BE PRESERVED SHALL CONSTITUTE A VIOLATION. IF A SITE IS FOUND IN VIOLATION OF THE TREE PRESERVATION POLICIES AND APPLICABLE CODE REQUIREMENTS RELATED TO REQUIRED LANDSCAPING, MITIGATION MEASURES WILL BE ENFORCED BY THE APPROPRIATE CODE ENFORCEMENT AGENCY. PENALTIES AND MITIGATION MEASURES FOR REMOVAL OF EXISTING TREES SHOWN TO BE OTHERWISE PEMANENTLY PRESERVED AND REMOVAL OF LANDSCAPING REQUIRED BY THE LDC SHALL BE DETERMINED BY THE PLANNING COMMISSION OR ITS DESIGNEE.

GENERAL LANDSCAPE NOTES:

1. GRASS OR GROUNDCOVER SHALL BE PLANTED ON ALL PORTIONS OF THE LANDSCAPE BUFFER AREA (LBA) NOT OCCUPIED BY OTHER LANDSCAPE MATERIAL.
2. EXISTING TREES AND PLANT MATERIAL ARE BEING USED TO MEET LANDSCAPE CODE REQUIREMENTS. IF ANY TREES OR SCREENING VEGETATION DIE OR ARE REMOVED THEY WILL BE REPLACED AS PER THE LANDSCAPE CODE REQUIREMENTS.
3. IT WILL BE THE RESPONSIBILITY OF THE PROPERTY OWNER TO PERPETUALLY MAINTAIN ALL LANDSCAPE AREAS AND ASSOCIATED PLANT MATERIAL REQUIRED UNDER LAND DEVELOPMENT CODE REGULATIONS. THE PROPERTY OWNER SHALL ALSO BE RESPONSIBLE FOR MAINTAINING THE VERGE AND ASSOCIATED TREES WITHIN THE VERGE UNLESS THE AGENCY HAVING JURISDICTION OVER THAT VERGE ASSUMES THAT RESPONSIBILITY.
4. ALL UNHEALTHY OR DEAD PLANT MATERIAL SHALL BE REPLACED WITHIN ONE YEAR, OR BY THE NEXT PLANTING PERIOD, WHICHEVER COMES FIRST, WHILE OTHER DEFECTIVE PLANT MATERIAL SHALL BE REPLACED OR REPAIRED WITHIN THREE (3) MONTHS.
5. ALL PLANT MATERIAL LOCATED WITHIN A UTILITY EASEMENT THAT IS DAMAGED OR REMOVED DUE TO WORK REQUIRED BY THE UTILITY COMPANY SHALL BE IMMEDIATELY REPLACED BY THE OWNER IN ACCORDANCE WITH LAND DEVELOPMENT CODE CHAPTER 10 REQUIREMENTS
6. ALL ABOVE GROUND SERVICE STRUCTURES SHALL BE SCREENED IN ACCORDANCE WITH LAND DEVELOPMENT CODE CHAPTER 10, SECTION 10.2.6 AND 10.4.9. SERVICE STRUCTURES INCLUDE BUT ARE NOT LIMITED TO: PROPANE TANKS, DUMPSTERS, HVAC UNITS, ELECTRIC TRANSFORMERS, TELECOM BOXES, ETC.
7. AN AUTHORIZED INSPECTOR SHALL HAVE THE RIGHT TO ENTER ONTO ANY PROPERTY TO INSPECT THE HEALTH AND GENERAL CONDITION OF PLANT MATERIAL THAT IS; LOCATED IN THE RIGHT OF WAY; PART OF AN APPROVED DEVELOPMENT/LANDSCAPE PLAN; OR REPORTED AS A PUBLIC HAZARD.
8. A TREE REMOVAL PERMIT SHALL BE ISSUED PRIOR TO REMOVAL OF EXISTING TREES ON NON-RESIDENTIAL AND MULTI-FAMILY DEVELOPMENT SITES WHERE LANDSCAPING AND TREE CANOPY ARE REQUIRED. A PERMIT APPLICATION CAN BE OBTAINED FROM PLANNING DESIGN SERVICES UPON REQUEST.
9. PRIOR TO THE RECEIVING A CERTIFICATE OF OCCUPANCY, A LANDSCAPE ARCHITECT SHALL INSPECT AND CERTIFY THAT ALL REQUIRED LANDSCAPING SHOWN ON THE APPROVED LANDSCAPE PLAN HAS BEEN INSTALLED AND/OR PRESERVED.
10. LANDSCAPE PLANTINGS MUST BE INSTALLED PRIOR TO OCCUPANCY OF THE SITE OR AT THE NEXT AVAILABLE PLANTING SEASON. THESE PLANTINGS ARE TO BE MAINTAINED THEREAFTER. REFER TO NOTES #2, #3, #4 AND #5 FOR MAINTENANCE AND REPLACEMENT OF REQUIRED AND PRESERVED PLAN MATERIAL.
11. THE GROUND PLANE OF ALL INTERIOR LANDSCAPE AREAS (ILA) SHALL BE PLANTED USING EITHER SHRUBS, GROUNDCOVER OR TURF.
12. LIGHT POLES, SIDEWALKS, BENCHES, ETC. SHALL NOT OCCUPY MORE THAN 25% OF ANY INTERIOR LANDSCAPE AREA (ILA) OR REDUCE THE WIDTH OF ANY PLANTED AREA TO LESS THAN 4 FEET. CONTRACTOR SHALL COORDINATE LIGHT POLE LOCATIONS WITH LANDSCAPE PLAN-PROPOSED TREE PLANTING TO AVOID CONFLICT.
30. REMOVE ALL BROKEN, DISEASED, OR WEAK BRANCHES. MAKE ALL CUTS LEVEL, HAVING AS LITTLE STUB AS POSSIBLE. SAUCERS SHALL BE SOAKED WITH WATER AND MULCHED IMMEDIATELY FOLLOWING PLANTING. ALL ROOT BALLS REMOVED FROM CANS SHALL BE SCARIFIED PRIOR TO BACKFILLING. SCARIFY ALL EDGES AND WALLS OF PLANT PITS 8". LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF PLANT MATERIAL AS PER PLANS. PLANT SCHEDULE IS FOR CONTRACTOR'S CONVENIENCE ONLY. CONTRACTOR SHALL VERIFY ALL QUANTITIES. MULCH ALL PLANTS AND PLANT BEDS AS PER DETAILS. ALL TREES MUST BE STRAIGHT TRUNKED AND FULL HEADED. NEVER CUT A LEADER WHEN PRUNING.
31. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES BEFORE COMMENCING CONSTRUCTION AND SHALL BE RESPONSIBLE FOR ANY DAMAGE DURING CONSTRUCTION.
32. MAINTENANCE FOR PLANT MATERIAL SHALL INCLUDE WATERING, SPRAYING, MULCHING, FERTILIZING, PRUNING, ETC., AND IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR UNTIL FINAL APPROVAL BY LANDSCAPE ARCHITECT AND OWNER.
33. THE OWNER SHALL PROVIDE ALL MAINTENANCE (INCLUDING WATERING) THROUGHOUT THE GUARANTEE PERIOD UNLESS OTHERWISE SPECIFIED.
34. ALL PLANT MATERIAL SHALL CONFORM TO THE SIZE AND QUALITY AS SPECIFIED IN THE "AMERICAN STANDARDS FOR NURSERY STOCK" – CURRENT EDITION.
35. ALL PLANT MATERIAL SHALL BE INSTALLED AT THE SAME DEPTH AS GROWN AT THE NURSERY.
36. A MINIMUM 6" HEIGHT CURB WILL BE PROVIDED ON ALL EDGE OF PAVEMENT ON THE SITE TO PROTECT PLANT MATERIAL AND SIDEWALKS FROM DAMAGE BY VEHICLE OVERHANG.
37. CONSTRUCTION FENCING SHALL BE ERECTED PRIOR TO ANY GRADING OR CONSTRUCTION ACTIVITIES – PREVENTING COMPACTION OF ROOT SYSTEMS OF TREES TO BE PRESERVED. THE FENCING SHALL ENCLOSE THE AREA BENEATH THE DRIPLINE OF THE TREE CANOPY AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IS COMPLETED. NO PARKING, MATERIAL STORAGE, OR CONSTRUCTION ACTIVITIES SHALL BE PERMITTED WITHIN THE FENCED AREA.

GENERAL TREE PRESERVATION/PROTECTION NOTES:

1. CONSTRUCTION FENCING SHALL BE ERECTED WHEN OFF-SITE TREES OR TREE CANOPY EXISTS WITHIN 3' OF A COMMON PROPERTY LINE. FENCING SHALL BE IN PLACE PRIOR TO ANY GRADING OR CONSTRUCTION TO PROTECT THE EXISTING ROOT SYSTEMS FROM COMPACTION. THE FENCING SHALL ENCLOSE THE ENTIRE AREA BENEATH THE TREE CANOPY AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IS COMPLETED. NO PARKING, MATERIAL STORAGE OR CONSTRUCTION ACTIVITIES ARE PERMITTED WITHIN THE PROTECTED AREA.
2. PRIOR TO SITE DISTURBANCE OR CONSTRUCTION ACTIVITIES A SITE INSPECTION BY PDS STAFF OR DESIGNEE SHALL BE SCHEDULED TO CONFIRM AND VERIFY THE TREE PRESERVATION/ PROTECTION FENCING AND SIGNAGE IS INSTALLED AND CORRECTLY PLACED. TO SCHEDULE AN INSPECTION APPOINTMENT CALL PDS CUSTOMER SERVICE 574-6230.
3. THE CONTRACTOR SHALL POST SIGNAGE ON THE TREE PRESERVATION/ PROTECTION FENCING AND CONSTRUCTION FENCING IDENTIFYING THE ENCLOSED AREA AS TREE PRESERVATION/ PROTECTION AREA. THE SIGNS SHALL INCLUDE THE FOLLOWING TEXT: *"STAY OUT TREE PRESERVATION/ PROTECTION AREA. NO EQUIPMENT, MATERIALS OR VEHICLES SHALL BE STORED OR PLACED WITHIN THE AREA ENCLOSED BY THIS TREE PRESERVATION/ PROTECTION FENCE. THIS FENCE MAY NOT BE REMOVED WITHOUT THE APPROVAL OF THE METRO LOUISVILLE PLANNING COMMISSION. FAILURE TO COMPLY WILL RESULT IN FINES AND TREE MITIGATION. REPORT NON-COMPLIANCE TO 574-6230."* THE STANDARD TREE PROTECTION SIGN CAN BE DOWNLOADED FROM THIS LINK: Https://louisvilleky.gov/sites/default/files/planning_design/pre-applications/tree_pres_sign_0.pdf.
4. THE TREE PRESERVATION/ PROTECTION AREA SIGNAGE SHALL BE POSTED EVERY 50 FEET ALONG THE TREE PRESERVATION FENCE. THE SIGNS SHALL BE A MINIMUM SIZE OF 8" X 10" AND WEATHER RESISTANT. IF THE SIGNS ARE DAMAGED OR FADE THEY SHALL BE REPLACED WITHIN TEN WORKING DAYS OR TWO WEEKS
5. DURING ALL CONSTRUCTION ACTIVITY (INCLUDES CLEARING, GRADING, BUILDING CONSTRUCTION, AND VUA CONSTRUCTION) A COPY OF THE APPROVED TREE PRESERVATION PLAN SHALL BE ON-SITE.
6. AN AUTHORIZED INSPECTOR SHALL HAVE THE RIGHT TO ENTER ONTO ANY PROPERTY TO INSPECT THE HEALTH AND GENERAL CONDITION OF PLANT MATERIAL THAT IS: LOCATED IN THE RIGHT-OF-WAY; PART OF AN APPROVED DEVELOPMENT/LANDSCAPE PLAN, OR REPORTED AS A PUBLIC HAZARD.



LEGEND

- = EXISTING CONTOUR
- = PROPOSED STORM SEWER, CATCH BASIN W/ INLET PROTECTION AND HEADWALL
- = EXISTING STORM SEWER
- = EXISTING SEWER AND MANHOLE
- = PROPOSED SEWER AND MANHOLE
- = EXISTING DRAINAGE SWALE
- = DISTURBANCE AREA
- = WATER LINES
- = GAS LINES
- = UNDERGROUND ELECTRIC
- = ELECTRIC TELECOMMUNCATIONS OVERHEAD LINES
- = PROPOSED TREE PROTECTION FENCE
- = EXISTING TREE LINE
- = DRAINAGE FLOW DIRECTION
- = WATER METER
- = EXISTING UTILITY POLE
- = TCCA
- = SILT FENCE

TREE PRESERVATION PLAN APPROVED
Date: 02/12/21
By: Planning & Design Services
Louisville Metro Planning Commission

Chapter 10 Landscaping Compliance Plan APPROVED
Date: 02/12/21
Docket No: 21-Landscape-0004
Planning & Design Services
Louisville Metro Planning Commission

PLANT SCHEDULE

TREES						
		BOTANICAL NAME	COMMON NAME	SIZE		
ZS	2	ZELKOVA SERRATA	JAPANESE ZELKOVA	2" CAL.	B&B	TYPE "A" (D)
CK	3	CORNUS KOUSA	KOUSA DOGWOOD	6 FT. HT.	B&B	TYPE "A" (C)

LOCATION MAP

NOT TO SCALE

PROJECT DATA

EX. SITE AREA	= 1.0± Ac. (41,168 SF)
RIGHT-OF-WAY TO BE DEDICATED	= 1,910 SF
PROP. SITE AREA	= 0.9± AC (39,257 SF)
EXISTING ZONING	= M-2 (W/CUP)
FORM DISTRICT	= SUBURBAN MARKETPLACE CORRIDOR
EXISTING USE	= OFFICE
PROPOSED USE	= COMMUNITY SERVICE FACILITY (C.U.P.)
BUILDING HEIGHT	= 1 STORY (60' MAX. ALLOWED)
BUILDING AREA	
EXISTING BUILDING	= 3,578 SF
PROPOSED BUILDING ADDITION	= 1,700 SF (47% INCREASE)
TOTAL BUILDING AREA	= 5,278 SF
F.A.R.	= 0.12 (3.0 MAX. ALLOWED)

PARKING REQUIRED (TO BE DETERMINED BY THE BOARD OF ZONING.)

	MIN.	MAX.
TOTAL VEHICULAR USE AREA	= 11,746 SF	
INTERIOR LANDSCAPE AREA REQUIRED	= 880 SF (7.5%)	
INTERIOR LANDSCAPE AREA PROVIDED	= 963 SF	
EXISTING IMPERVIOUS	= 16,911 SF	
PROPOSED IMPERVIOUS	= 18,402 SF (9% INCREASE)	
ILA TREES REQUIRED (11,746 / 4,000)	= 3 TREES	
ILA TREES PROVIDED	= 3 TREES (2 NEW, 1 EXISTING)	

SECTION 5.3.2 SETBACKS
FRONT = 65 FT MEASURED FROM DIXIE HIGHWAY CENTERLINE
SIDE AND REAR = NONE

NOTE: CURB SIDE TRASH COLLECTION

TREE CANOPY CALCULATION

SITE AREA	= 39,257 SF
EXISTING TREE CANOPY	= 7,942 SF (20%)
EXISTING TREE CANOPY TO BE PRESERVED	
TCCA #1	=5,690 SF
TCCA #2 (Ex. 6" cal. Acer Rubrum Red Maple in good condition)	=1,500 SF
TCCA #3	= 752 SF
TOTAL	= 7,942 SF (20%)
TOTAL TREE CANOPY REQUIRED	= 6,870 SF (17.5%)*
*PER LDC 10.1.2.B.2 (HALF OF 35% REQUIRED = 17.5%)	
NEW TREE CANOPY TO BE PROVIDED	
(2) TYPE A TREES @1,200 SF EACH	= 2,400 SF (6%)
(3) TYPE C TREES @ 240 SF EACH	= 720 SF (2%)
TOTAL CANOPY TO BE PROVIDED PRESERVED + PROPOSED	=11,062 SF (28%)

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

Kentucky 811 Call 811 Before You Dig
CALL 2 WORKING DAYS BEFORE YOU DIG

UTILITY NOTE: ALL UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. THE INDIVIDUAL SERVICE LINES ARE NOT SHOWN. THE CONTRACTOR OR SUBCONTRACTOR SHALL NOTIFY THE UTILITY PROTECTION CENTER, "KENTUCKY 811" (TOLL FREE PHONE NO. 1-800-752-6007 OR LOCAL NO. 502-266-5123) FORTY EIGHT HOURS IN ADVANCE OF ANY CONSTRUCTION ON THIS PROJECT. THIS NUMBER WAS ESTABLISHED TO PROVIDE ACCURATE LOCATIONS OF EXISTING BELOW GROUND UTILITIES (I.E. CABLES, ELECTRIC WIRES, GAS, AND WATERLINES). WHEN CONTACTING THE "KENTUCKY 811" CALL CENTER, PLEASE STATE THAT THE WORK TO BE DONE IS FOR A PROPOSED MSD SEWER OR DRAINAGE FACILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING FAMILIAR WITH ALL UTILITY REQUIREMENTS SET FORTH ON THE PLANS IN THE TECHNICAL SPECIFICATIONS AND SPECIAL PROVISIONS.

CASE 21-LANDSCAPE-0004

RELATED CASES 16VARIANCE1093 & 20-CUP-0100

SITE ADDRESS:
7304 DIXIE HIGHWAY
LOUISVILLE, KY. 40258
TAX BLOCK 1123, LOT 0042
D.B. 6354, PG. 0486

WILLIAM E. & SARAH ERIKSEN
447 TIMBER LANE
ELIZABETHTOWN, KY 42701

COUNCIL DISTRICT – 12
FIRE PROTECTION DISTRICT – PLEASURE RIDGE PARK
MUNICIPALITY – LOUISVILLE

WM#12174

REVISIONS

NO.	DATE	DESCRIPTION	BY
1	02.12.25	AGENCY COMMENTS	AER

PROFESSIONAL'S SEAL

PROJECT DATA
FILE NAME: 20108 – LANDSCAPE
DATE: 1/12/2021
SCALE: 1" = 20'
CHECKED BY: DT
DRAWN BY: BB

LDC CHAPTER 10 LANDSCAPE AND TREE PRESERVATION PLAN

OVEC
7304 DIXIE HWY
DEVELOPER
OHIO VALLEY EDUCATIONAL COOPERATIVE
100 ALPINE ROAD
SHELBYVILLE, KY 40065

L D&D
LAND DESIGN & DEVELOPMENT, INC.
ENGINEERING • LAND SURVEYING • LANDSCAPE ARCHITECTURE
529 WASHBURN AVENUE, SUITE 101, LOUISVILLE, KENTUCKY 40243
PHONE: 502.426.9570
FAX: 502.426.9574
WEB SITE: WWW.LDNDINC.COM

JOB NO. 20108

SHEET L.1 OF 1

GENERAL NOTES:

1. BUILDING CODE: 2018 KENTUCKY BUILDING CODE (2015 IBC).

2. BUILDING RISK CATEGORY: II

3. MINIMUM DESIGN LIVE LOADS:
   SLAB ON GRADE: 100 PSF
   MINIMUM ROOF LIVE LOAD: 20 PSF

4. SNOW LOADS:
   GROUND SNOW LOAD: 15 PSF
   FLAT ROOF SNOW LOAD: 15 PSF
   EXPOSURE FACTOR: 1.0
   THERMAL FACTOR: 1.1
   IMPORTANCE FACTOR: 1.0

5. WIND LOADS
   BASIC WIND SPEED: 115 MPH
   WIND DIRECTIONALITY FACTOR: 0.85
   EXPOSURE: B
   TOPOGRAPHIC FACTOR INCLUDED: N
   INTERNAL PRESSURE COEFFICIENT: ±0.18
   GUST EFFECT FACTOR: 0.85

6. SEISMIC
   KENTUCKY COUNTY: JEFFERSON
   SPECTRAL RESPONSE ACCELERATION COEFFICIENT, SS: 0.215
   SPECTRAL RESPONSE ACCELERATION COEFFICIENT, S1: 0.109
   SEISMIC USE GROUP: II
   IMPORTANCE FACTOR, IE: 1.00
   SITE CLASS: D
   SPECTRAL RESPONSE COEFFICIENT, Sds: 0.230
   SPECTRAL RESPONSE COEFFICIENT, Sd1: 0.172
   SEISMIC DESIGN CATEGORY: C
   ANALYSIS PROCEDURE: ELFP

   BASIC SEISMIC FORCE RESISTING SYSTEM: LIGHT-FRAME WALLS WITH SHEAR PANELS OF ALL OTHER MATERIALS

   RESPONSE MODIFICATION COEFFICIENT, R: 2
   SEISMIC BASE SHEAR COEFFICIENT, CS: 0.115

   SEISMIC BASE SHEAR: 6.3 K (ASD)

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DETAILS AND DIMENSIONS. ANY DISCREPANCY BETWEEN SUCH DETAILS AND DIMENSIONS AS MAY OCCUR SHALL BE REPORTED TO THE ARCHITECT FOR CLARIFICATION BEFORE THE WORK PROCEEDS

FOUNDATION DESIGN

1. ALLOWABLE SOIL BEARING CAPACITY FOR FOOTINGS: 1500 PSF

   ALLOWABLE SOIL BEARING CAPACITY ASSUMED AND SHALL BE VERIFIED BY A QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE FOR FOUNDATIONS

CONCRETE GENERAL

1. CONCRETE FOR GENERAL USE SHALL BE NORMAL WEIGHT WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI. EXTERIOR USE CONCRETE SHALL BE 4500 PSI.

2. ALL LAP LENGTHS AND DEVELOPMENT LENGTHS NOT SHOWN SHALL BE FOR FULL TENSION SPLICE (CLASS B). WHERE BARS ARE OF DIFFERENT SIZE, THE LAP LENGTH SHALL BE BASED ON THE LARGER BAR, UNLESS OTHERWISE SHOWN.

2. DEVELOPMENT LENGTHS OF REINFORCEMENT SHALL CONFORM TO ACI 318.

3. MATERIAL PROPERTIES – REINFORCING AND CONNECTION STEEL:

	Fy (psi)	ASTM
WELDED BARS	60,000	A706 OR A615*
ALL BARS, U.N.	60,000	A615
WELDED WIRE REINFORCEMENT (SMOOTH)	65,000	A185
WELDING FOR STEEL REINF BARS		AWS D1.4
DEFORMED BAR ANCHORS	70,000	A496
HEADED ANCHOR STUDS	60,000	A108
HEADED/TERMINATOR BARS	60,000	A970

   * PREHEAT PER AWS D1.4.

5. PROVIDE BAR SUPPORTS AND SPACERS IN ACCORDANCE WITH ACI DETAILING MANUAL. ALL BAR SUPPORTS IN AREAS WHERE CONCRETE WILL BE EXPOSED SHALL HAVE PLASTIC FEET.

6. DETAILING, FABRICATION AND PLACING OF REINFORCING SHALL CONFORM TO APPLICABLE PROVISIONS OF ACI 315 AND ACI 318.

7. MINIMUM CONCRETE COVER FOR REINFORCING BARS SHALL COMPLY WITH THE REQUIREMENTS OF ACI 318, SECTION 7.7.1 OF ACI CODE.

8. SLABS, FOOTINGS SHALL HAVE NO HORIZONTAL JOINTS. ANY STOP IN CONCRETE WORK MUST BE MADE NEAR CENTER OF SPAN, OR AS INDICATED ON THE DRAWINGS, WITH VERTICAL KEYED BULKHEADS. ALL REINFORCEMENT SHALL CONTINUE THRU JOINTS.

9. BEFORE PLACING CONCRETE, THE CONTRACTOR SHALL NOTIFY ALL SUBCONTRACTORS TO BE SURE ALL SLEEVES, CONDUIT, CHASES, EMBEDS, EQUIPMENT ANCHOR BOLTS, ETC., ARE PROPERLY INSTALLED.

10. ATTENTION IS CALLED TO THE FACT THAT ANY CONCRETE THAT WILL BE EXPOSED MUST HAVE SPECIAL CARE TAKEN TO PREVENT EXPOSURE OF TIE WIRE OR OTHER MATERIAL THAT MAY CAUSE STAINING. PROPER CONCRETE COVER ON ALL REINFORCING STEEL MUST BE MAINTAINED.

11. ALL EXPOSED EDGES AND CORNERS OF CONCRETE SHALL HAVE A ¾" CHAMFER AT 45 DEGREES UNLESS OTHERWISE NOTED.

12. ANCHOR BOLTS FOR ALL COLUMNS AND EQUIPMENT SHALL BE SET BY TEMPLATE AND SHALL BE WIRE TIED IN PLACE. COORDINATE ANCHOR BOLT LAYOUT AND SIZE WITH CERTIFIED METAL BUILDING LAYOUTS.

13. PIPE SLEEVES WHICH PASS THROUGH WALLS SHALL BE PLACED ABOVE FOOTINGS OR ABOVE PRIMARY REINFORCEMENT AND SHALL BE PLACED SO AS NOT TO AFFECT THE STRUCTURAL INTEGRITY OF THE CONCRETE.

CONCRETE MIX DESIGNS

1. MAXIMUM W/C RATIO – 0.45

2. MINIMUM CEMENTITIOUS MATERIALS CONTENT, LB/CY BASED ON MAXIMUM AGGREGATE SIZE:

1.5 INCHES	470 LB/CY
1.0	520
0.75	540
0.375	610

3. AIR ENTRAINMENT 5% +/– 1% FOR EXTERIOR CONCRETE EXPOSED TO FREEZING.

4. SLUMP AT POINT OF DISCHARGE: 4" ±1

5. PRIOR TO DELIVERY TO THE JOBSITE, ENGINEER SHALL BE FURNISHED WITH CONCRETE MIX DESIGN AND ASSOCIATED DATA TO SUBSTANTIATE 28 DAY COMPRESSIVE STRENGTH AND PLASTIC PROPERTIES.

6. DO NOT ADD WATER TO CONCRETE DURING DELIVERY. WATER MAY ADDED ON SITE ONLY IF A TICKET WITH THE WATER UNDERRUN NOTED IS PROVIDED. WATER ADDED MUST NOT EXCEED THE AMOUNT OF WATER NOTED ON THE TICKET. CONCRETE MUST STILL MEET SPECIFICATIONS AFTER THE WATER IS ADDED. CONCRETE ADMIXTURES OF ANY KIND SHALL NOT BE ADDED ON SITE OR DURING DELIVERY.

CONCRETE PLACEMENT

1. BEFORE PLACING CONCRETE, INSPECT AND COMPLETE FORMWORK INSTALLATION. VERIFY REINFORCING STEEL PLACEMENT, SIZES, SPLICES AND EMBEDS TO BE CAST-IN.

2. COMPLY WITH ACI 304R "RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE".

3. DEPOSIT AND CONSOLIDATE CONCRETE IN FORMS IN HORIZONTAL LAYERS NOT DEEPER THAN 18" AND IN A MANNER TO PREVENT INCLINED CONSTRUCTION JOINTS.

4. DEPOSIT AND CONSOLIDATE SLABS IN A CONTINUOUS OPERATION WITHIN LIMITS OF CONSTRUCTION JOINTS UNTIL PLACEMENT OF PANEL OR SECTION IS COMPLETED.

5. PROTECT CONCRETE FROM PHYSICAL DAMAGE OR REDUCED STRENGTH WHICH COULD BE CAUSED BY FROST, FREEZING ACTIONS OR LOW TEMPERATURES IN COMPLIANCE WITH ACI 306R.

6. WHEN HOT WEATHER CONDITIONS EXIST THAT WOULD IMPAIR QUALITY AND STRENGTH OF CONCRETE, PLACE CONCRETE IN COMPLIANCE WITH ACI 305R. CONCRETE AT TIME OF PLACEMENT SHALL BE LESS THAN 90 DEF F AND SHALL BE MAINTAINED SO THAT TEMPERATURE DOES NOT EXCEED 90 DEF F.

7. CONSOLIDATE CONCRETE BY MECHANICAL VIBRATING EQUIPMENT SUPPLEMENTED BY HAND-SPADING RODDING OR TAMPING. DO NOT USE VIBRATORS TO TRANSPORT CONCRETE INSIDE FORMS. DO NOT INSERT VIBRATORS INTO LOWER LAYERS OF CONCRETE THAT HAVE BEGUN TO SET.

FINISH OF HORIZONTAL CONCRETE SURFACES

1. EXTERIOR SLABS SHALL RECEIVE A FINE BROOM FINISH: APPLY A PARTIAL TROWEL FINISH, STOPPING AFTER SECOND TROWELING. IMMEDIATELY AFTER SECOND TROWELING, AND WHEN CONCRETE IS STILL PLASTIC, SLIGHTLY SCARIFY SURFACE WITH A FINE BROOM.

2. INTERIOR SLABS SHALL RECEIVE A TROWEL FINISH. APPLY HARD TROWEL FINISH TO SLAB ON GRADE.

3. WATER SHALL NOT BE APPLIED TO HORIZONTAL SURFACES TO RETEMPER PRIOR TO FINISHING.

4. DRY CEMENT SHALL NOT BE ADDED TO HORIZONTAL SURFACES TO STIFFEN SURFACE PRIOR TO FINISHING.

5. FLOOR SHALL BE FINISHED TO THE FOLLOWING FINISHED PER ACI 302.1 AND ASTM E1155:

   COMPOSITE OVER FLATNESS (F_F): 25
   COMPOSITE OVER FLATNESS (F_F): 20

CONCRETE CURING AND PROTECTION

1. PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES.

2. START INITIAL CURING IMMEDIATELY AFTER FINAL FINISHING IS COMPLETE. KEEP CONTINUOUSLY MOIST FOR NOT LESS THAN 7 DAYS.

3. PERFORM CURING OF CONCRETE BY CURING COMPOUND, MOIST CURING, MOISTURE-RETAINING COVER CURING AND BY COMBINATIONS THEREOF.

QUALITY CONTROL TESTING OF CONCRETE DURING CONSTRUCTION

1. THE OWNER SHALL RETAIN A TESTING LABORATORY TO PERFORM TESTS AND TO SUBMIT TEST REPORTS. THE CONTRACTOR SHALL ALLOW TESTING AGENCY ACCESS TO ALL MATERIALS AND SHALL ASSIST IN OBTAINING SAMPLES.

2. TESTING AGENCY HAS THE AUTHORITY TO REJECT A LOAD OF CONCRETE THAT DOES NOT MEET SPECIFICATIONS. REJECTED CONCRETE SHALL BE REPLACED AT NO COST TO THE OWNER.

ROUGH CARPENTRY

1. WOOD CONSTRUCTION SHALL CONFORM TO ALL REQUIREMENTS SPECIFIED IN CHAPTER 23 OF THE INTERNATIONAL BUILDING CODE.

2. STACK LUMBER, PLYWOOD AND OTHER PANELS; PLACE SPACERS BETWEEN EACH BUNDLE TO PROVIDE AIR CIRCULATION.

3. FACTORY MARK EACH PIECE OF LUMBER WITH GRADE STAMP OF GRADING AGENCY. WHEN LUMBER IS TO BE EXPOSED AND FINISHED PROVIDE GRADE DOCUMENTATION.

4. PROVIDE DRESSED LUMBER, S4S, UNLESS OTHERWISE INDICATED

5. ALL DIMENSIONAL LUMBER AND WALL STUDS, UNLESS OTHERWISE NOTED, SHALL BE SOUTHERN PINE NO. 2. DESIGN PROPERTIES SHALL MEET OR EXCEED THOSE ADOPTED BY THE AMERICAN WOOD COUNCIL (AWC) JUNE 1, 2013.

6. WOOD FASTENING NOT SPECIFICALLY DETAILED IN THESE DOCUMENTS SHALL CONFORM TO FASTENING REQUIREMENTS NOTED IN TABLE 2304.9.1 OF THE INTERNATIONAL BUILDING CODE. SEE SHEET S0.4.

7. PROVIDE DRY LUMBER WITH 19 PERCENT MAXIMUM MOISTURE CONTENT AT TIME OF DRESSING FOR 2 INCH NOMINAL THICKNESS, UNLESS OTHERWISE INDICATED

8. PROVIDE ENGINEERED WOOD PRODUCTS WITH ALLOWABLE DESIGN STRESSES, AS PUBLISHED BY THE MANUFACTURER, THAT MEET OR EXCEED THOSE INDICATED. MANUFACTURER'S PUBLISHED VALUES SHALL BE DETERMINED FROM EMPIRICAL DATA OR BY RATIONAL ENGINEERING ANALYSIS AND DEMONSTRATED BY COMPREHENSIVE TESTING PERFORMED BY A QUALIFIED INDEPENDENT TESTING AGENCY.

9. OBTAIN EACH TYPE OF ENGINEERED WOOD PRODUCT THROUGH ONE SOURCE FROM A SINGLE MANUFACTURER.

10. LAMINATED VENEER LUMBER (LVL) SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM D 5456 AND SHALL HAVE ADHESIVE GLUE COMPLYING WITH ASTM D 2559. PROVIDE LAMINATED VENEER LUMBER WITH THE FOLLOWING MINIMUM VALUES, UNITS ARE IN P.S.I.

BENDING, Fb	2,900
MODULUS OF ELASTICITY	2,000,000
SHEAR PARALLEL TO GRAIN	285

    AT MUTIPLY LVL'S, PROVIDE INTERCONNECTING FASTENING PER VENDOR'S REQUIREMENTS FOR SIDE LOADED MEMBERS.

11. PROVIDE PRESSURE TREATED LUMBER THAT IS IN CONTACT WITH GROUND OR MASONRY. PRESERVATIVE CHEMICALS SHALL BE ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION. PRESSURE TREATED LUMBER SHALL BE KILN DRIED AFTER TREATMENT TO A MAXIMUM MOISTURE CONTENT OF 19 PERCENT FOR LUMBER AND 15 PERCENT FOR PLYWOOD. DO NOT USE MATERIAL THAT IS WARPED OR DOES NOT COMPLY WITH REQUIREMENTS FOR UNTREATED MATERIAL.

12. MARK EACH TREATED ITEM WITH THE TREATMENT QUALITY MARK OF AN INSPECTION AGENCY APPROVED BY THE AMERICAN LUMBER STANDARDS COMMITTEE BOARD OF REVIEW.

13. PLYWOOD ROOF SHEATHING SHALL BE AS INDICATED ON THE ROOF PLAN.

14. OSB WALL SHEATHING SHALL BE APA RATED SHEATHING WITH A SPAN RATING NOT LESS THAN 24/16 AND A THICKNESS NOT LESS THAN 7/16 INCH. ATTACH USING 8d NAILS @ 6" O.C. ALONG PANEL EDGES AND AT 12 AT INTERIOR SUPPORTS AND AT 6 INCHES ALONG TOP AND BOTTOM PLATES.

15. SEE SHEARWALL SCHEDULE FOR SHEARWALL SHEATHING AND FASTENING INFORMATION.

16. WHERE ROUGH CARPENTRY IS EXPOSED TO WEATHER, IN GROUND CONTACT, IN AREAS OF HIGH RELATIVE HUMIDITY OR IN CONTACT WITH TREATED LUMBER, PROVIDE FASTENERS WITH HOT-GALVANIZED ZINC COATING COMPLYING WITH ASTM A 153/A AND IN ACCORDANCE WITH PRESSURE TREATMENT CHEMICAL VENDOR'S RECOMMENDATIONS.

17. PROVIDE FRAMING ANCHORS MADE FROM METAL INDICATED, OF STRUCTURAL CAPACITY, TYPE AND SIZE INDICATED. ZINC COATING SHALL BE MINIMUM G90 OR AS RECOMMENDED BY PRESSURE TREATED LUMBER CHEMICAL VENDOR, WHICHEVER IS MORE STRINGENT.

18. SET ROUGH CARPENTRY TO REQUIRED LEVELS AND LINES, WITH MEMBERS PLUMB, TRUE TO LINE, CUT, AND FITTED. FIT ROUGH CARPENTRY TO OTHER CONSTRUCTION; SCRIBE AND COPE AS NEEDED FOR ACCURATE FIT. LOCATE NAILERS, BLOCKING, AND SIMILAR SUPPORTS TO COMPLY WITH REQUIREMENTS FOR ATTACHING OTHER CONSTRUCTION.

19. DO NOT USE MATERIALS WITH DEFECTS THAT IMPAIR QUALITY OF ROUGH CARPENTRY OR PIECES THAT ARE TOO SMALL TO USE WITH MINIMUM NUMBER OF JOINTS OR OPTIMUM JOINT ARRANGEMENT.

20. USE COMMON WIRE NAILS UNLESS OTHERWISE INDICATED. SELECT FASTENERS OF SIZE THAT WILL NOT FULLY PENETRATE MEMBERS. INSTALL FASTENERS WITHOUT SPLITTING WOOD. PREDRILL AS REQUIRED.

21. INSTALL BLOCKING WHERE INDICATED AND WHERE REQUIRED FOR ATTACHING OTHER WORK. FORM TO SHAPES INDICATED AND CUT AS REQUIRED FOR TRUE LINE AND LEVEL OF ATTACHED WORK. COORDINATE LOCATIONS WITH OTHER WORK INVOLVED.

22. ATTACH ITEMS TO SUBSTRATES TO SUPPORT APPLIED LOADING. RECESS BOLTS AND NUTS FLUSH WITH SURFACES UNLESS INDICATED OTHERWISE. BUILD ANCHOR BOLTS INTO MASONRY DURING INSTALLATION OF MASONRY WORK.

23. STEEL HANGERS AND CLIPS SPECIFIED IN THESE DOCUMENTS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH MANUFACTURERS INSTRUCTIONS. WHERE NAILING OPTIONS ARE GIVEN THE "MAX" NAILING OPTION SHALL BE USED.

24. PROVIDE SIMPSON TSP HOLDOWN AT EACH TRUSS BEARING LOCATION PRIOR TO INSTALLING SHEATHING. AT EXTERIOR WALLS LOCATE HOLDOWN AT OUTSIDE FACE OF WALL.

25. ALL EXTERIOR HARDWARE AND FASTENERS IN CONTACT WITH TREATED LUMBER SHALL BE STAINLESS STEEL. WHERE STAINLESS FASTENERS ARE NOT AVAILABLE, HOT DIPPED GALVANIZED PRODUCTS SHALL BE PROVIDED WITH LOAD RATING GREATER THAN OR EQUAL TO THE SPECIFIED PRODUCT.

METAL-PLATE-CONNECTED WOOD TRUSSES

1. METAL-PLATE-CONNECTED WOOD TRUSSES SHALL BE PLANAR STRUCTURAL UNITS CONSISTING OF METAL-PLATE-CONNECTED MEMBERS FABRICATED FROM DIMENSION LUMBER AND CUT AND ASSEMBLED BEFORE DELIVERY TO PROJECT SITE.

2. TRUSSES SHALL BE CAPABLE OF WITHSTANDING DESIGN LOADS AS REQUIRED BY THE 2018 KENTUCKY BUILDING CODE (2015 IBC/ASCE 7-10 AND SHALL BE DESIGNED AND SEALED BY AN ENGINEER REGISTERED IN THE STATE OF KENTUCKY.

3. TRUSSES SHALL BE DESIGNED FOR UPLIFT DUE TO WIND WITH ALL NECESSARY BRACING TO RESIST BOTTOM FLANGE COMPRESSION BUCKLING. TRUSS HOLD-DOWN SELECTION SHALL BE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER.

4. ROOF TRUSS VERTICAL LIVE LOAD DEFLECTION SHALL NOT EXCEED 1/360 OF SPAN.

5. SHOP DRAWINGS SHALL SHOW LOCATION, PITCH, SPAN CAMBER, CONFIGURATION, AND SPACING, SPECIES, SIZES, AND STRESS GRADES OF LUMBER, SPLICE DETAILS, TYPE, SIZE, MATERIAL FINISH, DESIGN VALUES, ORIENTATION, AND LOCATION OF METAL CONNECTOR PLATES AND BEARING DETAILS FOR EACH TYPE OF TRUSS REQUIRED.

6. METAL CONNECTOR PLATE MANUFACTURER SHALL BE A MEMBER OF TPI AND COMPLY WITH TPI QUALITY CONTROL PROCEDURES FOR MANUFACTURE OF CONNECTOR PLATES PUBLISHED IN TPI 1.

7. MANUFACTURER'S RESPONSIBILITIES INCLUDE PROVIDING PROFESSIONAL ENGINEERING SERVICES. DRAWINGS SHALL BE STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN INDIANA.

8. OBTAIN METAL CONNECTOR PLATES THROUGH ONE SOURCE FROM A SINGLE MANUFACTURER.

9. COMPLY WITH TPI RECOMMENDATIONS FOR DELIVERY, STORAGE AND HANDLING TO AVOID DAMAGE AND LATERAL BENDING. PROVIDE FOR AIR CIRCULATION AROUND STACKS AND UNDER COVERINGS.

10. INSPECT TRUSSES SHOWING DISCOLORATION, CORROSION, OR OTHER EVIDENCE OF DETERIORATION. DISCARD AND REPLACE TRUSSES THAT ARE DAMAGED OR DEFECTIVE.

11. FABRICATE WOOD TRUSSES WITHIN MANUFACTURING TOLERANCES IN TPI 1.

12. INSTALL WOOD TRUSSES ONLY AFTER SUPPORTING CONSTRUCTION IS IN PLACE AND IS BRACED AND SECURED.

13. HOIST TRUSSES IN PLACE BY LIFTING EQUIPMENT SUITED TO SIZES AND TYPES OF TRUSSES REQUIRED, EXERCISING CARE NOT TO DAMAGE TRUSS MEMBERS OR JOINTS BY OUT OF PLANE BENDING OR OTHER CAUSES.

14. INSTALL AND BRACE TRUSSES ACCORDING TO TPI RECOMMENDATIONS.

15. SPACE TRUSSES AS INDICATED AND ADJUST AND ALIGN IN LOCATION BEFORE PERMANENTLY FASTENING.

16. ANCHOR TRUSSES SECURELY AT BEARING POINTS USING METAL FRAMING ANCHORS. INSTALL FASTENERS THROUGH EACH FASTENER HOLE IN METAL FRAMING ANCHOR ACCORDING TO MANUFACTURER'S FASTENING SCHEDULES AND WRITTEN INSTRUCTIONS.

17. INSTALL AND FASTEN PERMANENT BRACING DURING TRUSS ERECTION AND BEFORE CONSTRUCTION LOADS ARE APPLIED. ANCHOR ENDS OF PERMANENT BRACING WHERE TERMINATING AT WALLS OR BEAMS.

18. DO NOT CUT OR REMOVE TRUSS MEMBERS.

19. REPLACE WOOD TRUSSES THAT ARE DAMAGED OR DO NOT MEET REQUIREMENTS.

20. REPAIR DAMAGED GALVANIZED COATINGS ON EXPOSED SURFACES WITH GALVANIZED REPAIR PAINT ACCORDING ASTM A 780 AND MANUFACTURER'S WRITTEN INSTRUCTIONS.

CONCRETE MASONRY CONSTRUCTION

1. CONCRETE MASONRY UNITS SHALL BE GRADE N HOLLOW-LOAD BEARING TYPE (LIGHT WEIGHT), AND SHALL MEET WITH THE REQUIREMENTS OF ASTM C90. ALL CONCRETE MASONRY UNITS SHALL BE PLACED IN ACCORDANCE WITH ACI 530.

2. HORIZONTAL JOINT REINFORCING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A951 AND CONSIST OF W1.7 SIDE RODS AND CROSS RODS. CROSS ROD SPACING SHALL NOT EXCEED 16 INCHES. LENGTHS SHALL NOT BE LESS THAN 10FT WITH PREFABRICATED INTERSECTIONS. VERTICAL SPACING OF JOINT REINFORCEMENT SHALL NOT EXCEED 16 INCHES AND SHALL BE LOCATED 8 INCHES FROM TOP AND BOTTOM OF MASONRY FOUNDATION WALL. MINIMUM COVER SHALL BE 5/8 INCH FOR BELOW GRADE WALLS.

3. CONSOLIDATE GROUT BY MECHANICAL VIBRATING EQUIPMENT SUPPLEMENTED BY HAND-SPADING RODDING OR TAMPING.

4. UNLESS OTHERWISE NOTED, LAP SPLICES OR EMBEDMENT LENGTHS OF REINFORCING SHALL BE AS FOLLOWS:
   #4 = 24"
   #5 = 30"
   #6 = 36"
   #7 = 42"

   EMBEDMENT LENGTHS SHALL BE A MINIMUM OF 48 BAR DIA. FOR ALL LAP SPLICES AND EMBEDMENT REINFORCEMENT SHALL BE WIRE TIED IN PLACE PRIOR TO GROUTING. HOLD VERTICAL BARS IN PLACE USING METAL SUPPORTS, CENTERING CLIPS, SPACERS, TIES, OR CAGING DEVICES NEAR THE END OF EACH BAR AND AT INTERMEDIATE INTERVALS OF NOT MORE THAN 192 DIAMETERS OF THE BAR.

5. NOTE: BARS SHALL NOT BE INSTALLED OR "STUCK" IN PLASTIC GROUT. ANY SUCH CONDITIONS SHALL BE GROUNDS FOR REMOVAL AND REPLACEMENT OF BLOCK/ REINFORCING.

6. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY LATERAL SUPPORT FOR ALL MASONRY WALLS DURING CONSTRUCTION.

7. MASONRY UNITS SHALL BE STORED AND PROTECTED SO THAT THEY ARE MAINTAINED IN A DRY CONDITION. WET MASONRY UNITS SHALL NOT BE LAID. INSTALLED MASONRY SHALL BE COVERED AND PROTECTED UNTIL IT HAS BEEN GROUTED AND HAS ACHIEVED 2/3 OF ITS 28 DAY COMPRESSIVE STRENGTH.

8. COLD WEATHER AND HOT WEATHER CONSTRUCTION REQUIREMENTS SHALL BE FOLLOWED AS REQUIRED PENDING CONSTRUCTION WEATHER CONDITIONS AND SHALL BE IN ACCORDANCE WITH ACI 530.1

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CONSTRUCTION DOCUMENTS

GENERAL NOTES

Addition & Renovation
OVEC Head Start
7304 Dixie Highway
Louisville, KY 40258

DATE : 2/17/21
DRAWN BY : BTC
CHECKED BY : NDC
REVISIONS :

2019-52.06

S0.0

SPECIAL INSPECTIONS

1. GENERAL

A. SPECIAL INSPECTOR MEETING REQUIREMENTS OF CHAPTER 17 OF THE 2018 KENTUCKY BUILDING CODE (2015 INTERNATIONAL BUILDING CODE) ARE REQUIRED FOR THIS PROJECT. THE OWNER SHALL RETAIN THE SERVICES OF A LICENSED PROFESSIONAL QUALIFIED TO PERFORM SPECIAL INSPECTION SERVICES. AS A PART OF THE WORK BID, THE CONTRACTOR AND SUB-CONTRACTORS SHALL FULLY COOPERATE AT ALL TIMES WITH THE OWNER'S SPECIAL INSPECTOR OF RECORD (SIR) AND HIS/HER AGENTS. THE CONTRACTOR AND SUB-CONTRACTORS SHALL PROVIDE ACCESS TO THE SITE AND TO SPECIFIC AREAS OF WORK AS REQUIRED BY THE (SIR) OR HIS/HER AGENTS. THE CONTRACTOR SHALL ASSIST THE (SIR) IN COORDINATING THE TIMING OF INSPECTIONS AND SITE VISITS. THE CONTRACTOR SHALL NOTIFY THE (SIR) OR HIS/HER AGENTS IMMEDIATELY WHEN ITEMS SPECIFIED FOR INSPECTION ARE EITHER NOT COMPLETE OR ARE NOT ACCESSIBLE FOR INSPECTION DUE TO OTHER CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TIME AND COSTS INCURRED WHEN INSPECTION ITEMS ARE NOT COORDINATED PROPERLY.

2. REPORTING AND COMPLIANCE PROCEDURES

A. ON THE FIRST DAY OF EACH MONTH, THE SPECIAL INSPECTOR OF RECORD SHALL FURNISH COPIES OF THE COMBINED PROGRESS REPORTS OF THE SPECIAL INSPECTOR'S OBSERVATIONS. THESE PROGRESS REPORTS SHALL LIST ALL SPECIAL INSPECTIONS OF CONSTRUCTION OR REVIEWS OF TESTING PERFORMED DURING THAT MONTH, NOTE ALL UNCORRECTED DEFICIENCIES, AND DESCRIBE THE CORRECTIONS MADE BOTH TO THESE DEFICIENCIES AND TO PREVIOUSLY REPORTED DEFICIENCIES.

B. ANY DISCREPANCIES, IRREGULARITIES, NON-COMPLIANCE WITH THE CONTRACT DOCUMENTS OBSERVED DURING THE INSPECTION WORK SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT, ENGINEER, CONSTRUCTION MANAGER, AND OWNER IN WRITING BY MEANS OF A "DEFICIENCY LOG". ISSUES INVOLVING ON-GOING CONSTRUCTION AT THE SITE SHOULD BE BROUGHT TO ALL PARTIES ATTENTION IMMEDIATELY BY TELEPHONE, FAX, MAIL AND/OR E-MAIL TO AVOID POSSIBLE MATERIAL AND LABOR WASTE.

C. CONSTRUCTION NOT COMPLYING WITH THE CONTRACT DOCUMENTS AND FOUND NOT IN COMPLIANCE WITH THE SPECIAL INSPECTION PROGRAM SHALL BE REPLACED AT NO COST TO THE OWNER.

D. TESTING AND EMPLOYMENT OF ANY OTHER TESTING AGENCY OR LABORATORY BY THE CONTRACTOR SHALL NOT RELIEVE THE CONTRACTOR OF HIS OBLIGATION TO PERFORM WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

E. THE SPECIAL INSPECTOR OF RECORD (SIR) SHALL SUBMIT A COMBINED FINAL REPORT CONTAINING THE SIGNED FINAL REPORTS OF ALL THE SPECIAL INSPECTORS. THE (SIR) SHALL SIGN THE COMBINED FINAL REPORT ATTESTING THAT ALL FINAL REPORTS OF SPECIAL INSPECTORS THAT PERFORMED WORK TO COMPLY WITH THESE CONSTRUCTION DOCUMENTS ARE CONTAINED THEREIN, AND THAT THE (SIR) HAS REVIEWED AND APPROVED ALL OF THE INDIVIDUAL INSPECTOR'S FINAL REPORTS.

F. AT COMPLETION OF THE PROJECT, THE SPECIAL INSPECTOR OF RECORD SHALL COMPLETE THE FINAL REPORT AND AFFIX THE PROFESSIONAL REGISTRATION SEAL AND SIGNATURE. THE FINAL REPORT SHALL BE SUBMITTED TO THE DEPT. OF HOUSING, BUILDINGS AND CONSTRUCTION AND TO THE PARTIES LISTED ABOVE.

G. SAMPLE REPORTING FORMS ARE AVAILABLE AT WWW.SEOK.ORG.

3. QUALIFICATIONS OF INSPECTION AGENTS

A. WHEN THE REGISTERED DESIGN PROFESSIONAL (RDP) IN RESPONSIBLE CHARGE DEEMS IT APPROPRIATE THAT THE INDIVIDUAL PERFORMING A STIPULATED TEST OR INSPECTION HAVE A SPECIFIC CERTIFICATION OR LICENSE AS INDICATED BELOW, SUCH DESIGNATION SHALL APPEAR BELOW THE AGENCY NUMBER ON THE SCHEDULE. THE RDP MUST DETERMINE WHAT QUALIFICATIONS ARE APPROPRIATE FOR THE PARTICULAR PROJECT AND CONFIRM THAT THE SELECTED AGENCY EMPLOYS INDIVIDUALS WITH THE SPECIFIED QUALIFICATIONS.

PE STRUCTURAL ENGINEER – A LICENSED PE SPECIALIZING IN THE DESIGN OF BUILDING STRUCTURES WITH A MINIMUM OF FIVE YEARS OF LICENSED EXPERIENCE.
PE/GE GEOTECHNICAL ENGINEER – A LICENSED PE SPECIALIZING IN SOIL MECHANICS AND FOUNDATIONS WITH A MINIMUM OF FIVE YEARS OF LICENSED EXPERIENCE.
EIT ENGINEER-IN-TRAINING – A GRADUATE ENGINEER WHO HAS PASSED THE FUNDAMENTALS OF ENGINEERING EXAMINATION.

AMERICAN CONCRETE INSTITUTE (ACI) CERTIFICATION
ACI-CFTT CONCRETE FIELD TESTING TECHNICIAN – GRADE 1
ACI-CCI CONCRETE CONSTRUCTION INSPECTOR
ACI-LTT LABORATORY TESTING TECHNICIAN – GRADE 1&2
ACI-STT STRENGTH TESTING TECHNICIAN

AMERICAN WELDING SOCIETY (AWS) CERTIFICATION
AWS-CWI CERTIFIED WELDING INSPECTOR
AWS/AISC-SSI CERTIFIED STRUCTURAL STEEL INSPECTOR

AMERICAN SOCIETY OF NON-DESTRUCTIVE TESTING (ASNT) CERTIFICATION
ASNT NON-DESTRUCTIVE TESTING TECHNICIAN – LEVEL II OR III.

INTERNATIONAL CODE COUNCIL (ICC) CERTIFICATION
ICC-SMSI STRUCTURAL MASONRY SPECIAL INSPECTOR
ICC-SWSI STRUCTURAL STEEL AND WELDING SPECIAL INSPECTOR
ICC-SFSI SPRAY-APPLIED FIREPROOFING SPECIAL INSPECTOR
ICC-PCSI PRESTRESSED CONCRETE SPECIAL INSPECTOR
ICC-RCSI REINFORCED CONCRETE SPECIAL INSPECTOR

NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET)
NICET-CT CONCRETE TECHNICIAN – LEVELS I, II, III & IV
NICET-ST SOILS TECHNICIAN – LEVELS I, II, III & IV
NICET-GET GEOTECHNICAL ENGINEERING TECHNICIAN – LEVELS I, II, III & IV

4. STATEMENT OF SPECIAL INSPECTIONS

A. THE FOLLOWING TABLES SHALL SERVE AS THE SUMMARY OF THE "STATEMENT OF SPECIAL INSPECTIONS THAT WILL BE COMPLETED BY THE OWNER'S SPECIAL INSPECTOR OF RECORD (SIR). THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE 2018 KENTUCKY BUILDING CODE (2015 INTERNATIONAL BUILDING CODE). THE CONTRACTOR AND ALL SUB-CONTRACTORS SHALL ASSIST THE (SIR) AND HIS/HER AGENT AND SHALL PROVIDE ALL REQUESTED INFORMATION AND DATA TO THE (SIR) AS NECESSARY. THE CONTRACTOR AND SUB-CONTRACTORS SHALL PREPARE, COMPLETE, SIGN, AND SUBMIT ALL CONTRACTOR'S STATEMENT OF RESPONSIBILITY" LETTERS TO THE (SIR) AND THE ARCHITECT OF RECORD.

B. SPECIAL INSPECTIONS INCLUDE THE FOLLOWING DISCIPLINES:
STRUCTURAL

Soils and Foundations

Item	Agency # (Qualif.)	Scope
1. Shallow Foundations	PE/GE	1. Inspect soils below footings for adequate bearing capacity and consistency with geotechnical report. 2. Inspect removal of unsuitable material and preparation of subgrade prior to placement of controlled fill.
2. Controlled Structural Fill	PE/GE	1. Perform sieve tests (ASTM D422 & D1140) and modified Proctor tests (ASTM D1557) of each source of fill material. Inspect placement, lift thickness and compaction of controlled fill. 2. Test density of each lift of fill by nuclear methods (ASTM D2922) 3. Verify extent and slope of fill placement.

Cast-in-Place Concrete

Item	Agency # (Qualif.)	Scope
1. Mix Design	ACI-CCI ICC-RCSI	1. Review concrete batch tickets and verify compliance with approved mix design. 2. Verify that water added at the site does not exceed that allowed by the mix design.
2. Reinforcement Installation	ACI-CCI ICC-RCSI	1. Inspect size, spacing, cover, positioning and grade of reinforcing steel. 2. Verify that reinforcing bars are free of form oil or other deleterious materials. Inspect bar laps and mechanical splices. 3. Verify that bars are adequately tied and supported on chairs or bolsters
3. Welding of Reinforcing	AWS-CWI	1. Visually inspect all reinforcing steel welds. Verify weldability of reinforcing steel. Inspect preheating of steel when required.
4. Anchor Rods	ACI-CCI ICC-RCSI	1. Inspect size, positioning and embedment of anchor rods. 2. Inspect concrete placement and consolidation around anchors.
5. Concrete Placement	ACI-CCI ICC-RCSI	1. Inspect placement of concrete. 2. Verify that concrete conveyance and depositing avoids segregation or contamination. 3. Verify that concrete is properly consolidated.
6. Sampling and Testing of Concrete	ACI-CFTT ACI-STT	1. Test concrete compressive strength (ASTM C31 & C39), slump (ASTM C143), air-content (ASTM C231 or C173) and temperature (ASTM C1064).
7. Curing and Protection	ACI-CCI ICC-RCSI	1. Inspect curing, cold weather protection and hot weather protection procedures.

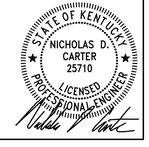
Wood Construction

Item	Agency # (Qualif.)	Scope
1. Material Certification	EIT/PE	1 .Verify size, material and grades of all wall studs, headers, roof joists, and sheathing.
2. Sheathing Fastening	EIT/PE	1. Provide continuous verification of roof, floor sheathing and shear wall fastening.
3. Holdowns	EIT/PE	1. Verify all holdown locations, anchor bolt size and embedment, and connections to wall framing.
4. Metal Plate Trusses	EIT/PE	1. Wood trusses shall be reviewed and inspected for general arrangement, spacing, holdowns at support locations, and lateral bracing/bridging as indicated on approved truss manufacturer submittals.

Masonry

Required Inspection Level: ☒Level 1 ☐Level 2

Item	Agency # (Qualif.)	Scope
1. Mixing of Mortar and Grout	ICC-SMSI	1. Inspect proportioning, mixing and retempering of mortar and grout.
2. Installation of Masonry	ICC-SMSI	1. Inspect size, layout, bonding and placement of masonry units.
3. Mortar Joints	ICC-SMSI .	1. Inspect construction of mortar joints including tooling and filling of head joints
4. Reinforcement Installation	ICC-SMSI AWS-CWI	1. Inspect placement, positioning and lapping of reinforcing steel. 2. Inspect welding of reinforcing steel.
5. Grouting Operations	ICC-SMSI	1. Inspect placement and consolidation of grout. Inspect masonry clean-outs for high-lift grouting.
6. Weather Protection	ICC-SMSI	1. Inspect cold weather protection and hot weather protection procedures. 2. Verify that wall cavities are protected against precipitation.
7. Evaluation of Masonry Strength	ICC-SMSI	1. Test compressive strength of mortar and grout cube samples (ASTM C780). 2. Test compressive strength of masonry prisms (ASTM C1314).
8. Anchors and Ties	ICC-SMSI	1. Inspect size, location, spacing and embedment of dowels, anchors and ties.



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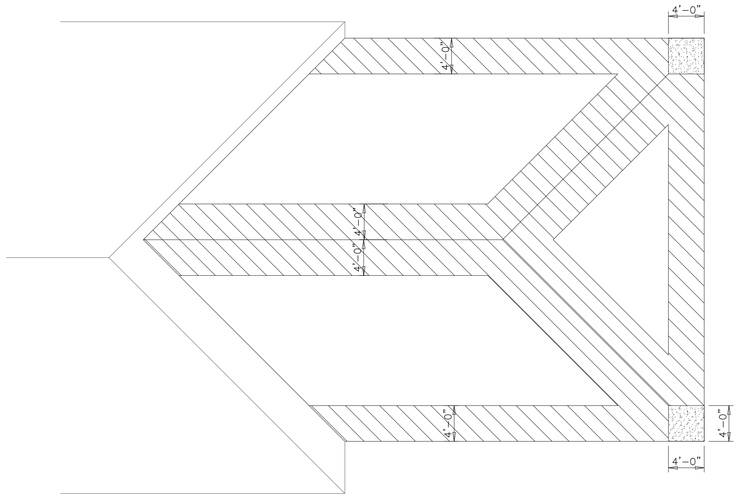


UPLIFT VALUES FOR ROOF TRUSS COMPONENTS & CLADDING DETERMINED IN ACCORDANCE WITH ASCE 7-10, ASSUMING AN EFFECTIVE AREA OF 10 SF. UPLIFT VALUES ARE FACTORED LOADS.

ROOF TRUSS UPLIFT VALUES
(unless otherwise noted)

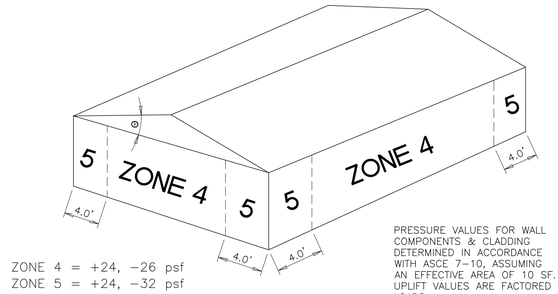
ZONE 1 = +16, -22 PSF

ZONE 2 = +16, -38 PSF

ZONE 3 = +16, -56 PSF

Roof Wind Uplift Zones

No Scale

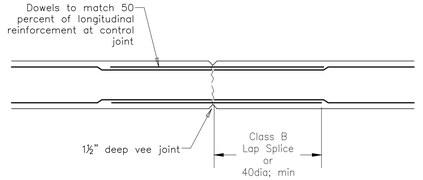


ZONE 4 = +24, -26 psf
ZONE 5 = +24, -32 psf

PRESSURE VALUES FOR WALL COMPONENTS & CLADDING DETERMINED IN ACCORDANCE WITH ASCE 7-10, ASSUMING AN EFFECTIVE AREA OF 10 SF. UPLIFT VALUES ARE FACTORED LOADS.

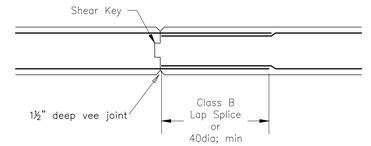
Wall Wind Pressure Zones

No Scale

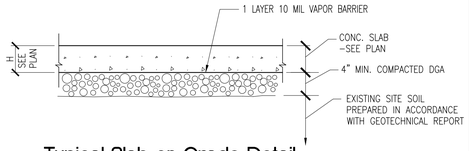


LOCATE CONTROL JOINTS AT 15'-0" MAX

Wall Control Joint



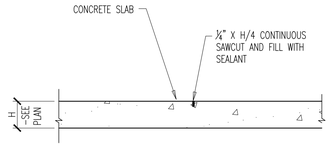
Wall Construction Joint



Typical Slab on Grade Detail

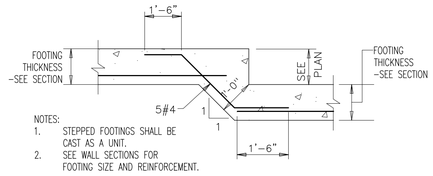
SCALE : NTS

TYPICAL SOIL PROFILES:
- INTERPRETATION OF SITE CONDITIONS SHALL BE AS PER THE DIRECTION OF THE GEOTECHNICAL TESTING AGENCY OVERSEEING SITE PREPARATION WORK.
- TEST ALL EXISTING SOILS PER RECOMMENDATION OF GEOTECHNICAL TESTING AGENCY TO IDENTIFY LOCATIONS OF UNSTABLE SOILS WHICH MAY REQUIRE REMEDIATION.



Interior Slab on Grade Control Joint Detail

SCALE: N.T.S.



NOTES:
1. STEPPED FOOTINGS SHALL BE CAST AS A UNIT.
2. SEE WALL SECTIONS FOR FOOTING SIZE AND REINFORCEMENT.

Typical Footing Step

SCALE: None

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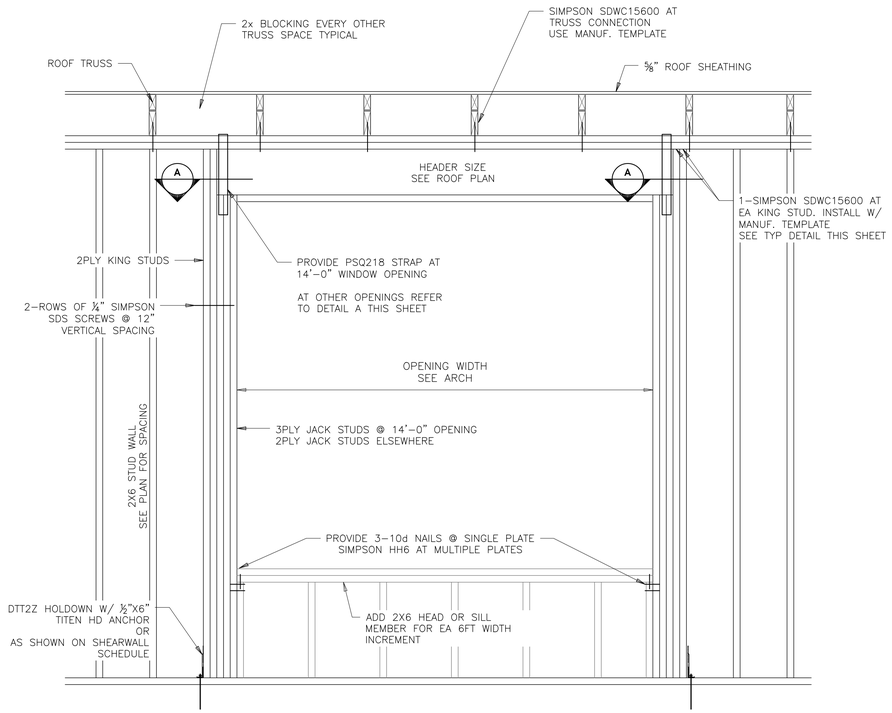
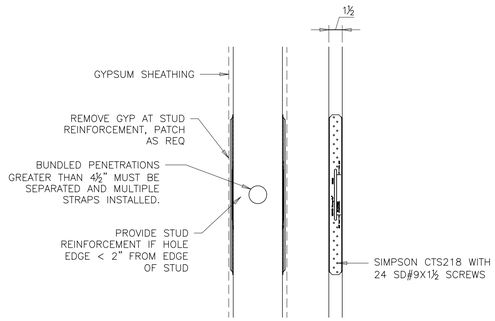
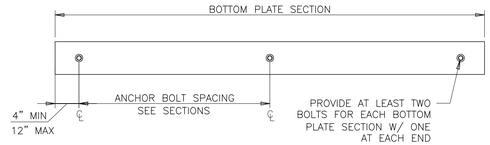


TYPICAL OPENING DETAIL

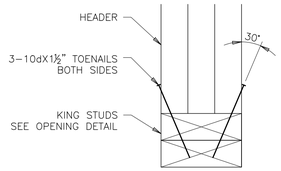


LOAD BEARING STUD REINFORCEMENT

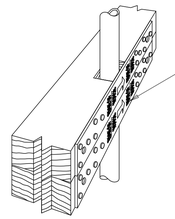


TYPICAL BOTTOM PLATE ANCHOR DETAIL

NO SCALE



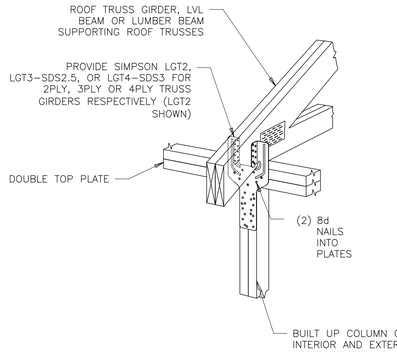
Detail A
Scale: 3" = 1'-0"



SIMPSON RPS18 – WHEN SOLES OR PLATES ARE CUT, A GALVANIZED STRUCTURAL REPAIR STRAP THAT IS 16GA BY 1½" IS REQUIRED FOR EACH MEMBER AND SHALL BE FASTENED WITH 6-16D NAILS ON EACH SIDE OF THE CUT. IF CUT EXTENDS TO MORE THAN 50% OF THE PLATE WIDTH, SUCH AS FOR HVAC CHASES, A 3 INCH REPAIR STRAP (SIMPSON MSTC52) SHALL BE PROVIDED ON BOTH SIDES OF THE CUT. IF THE CUT OCCURS AT ADJACENT BAYS, THE STRAP SHALL BE CONTINUOUS TO THE FAR SIDES OF THE CUTS. PROVIDE 6-16D NAILS PER PLATE ON EXTREME ENDS OF CUTS.

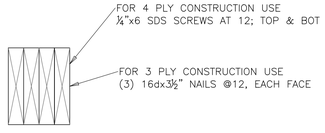
IF PIPING IS CLOSER THAN 1½" TO THE EDGE OF THE LUMBER OR WHEN PLASTIC OR COPPER PIPING PENETRATES FRAMING MEMBERS TO WITHIN 1" OF THE EDGE, A STEEL NAIL PLATE NOT LESS THAN 18GA THAT EXTENDS 1½" BEYOND THE PIPE OR TUBING ON EACH SIDE IN ADDITION TO THE RPS18 STRAP.

TOP PLATE REPAIR

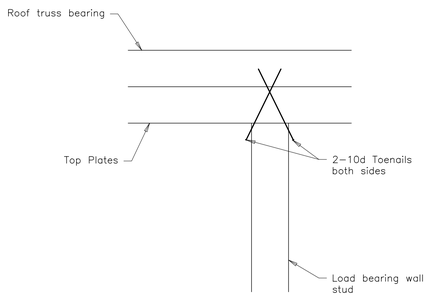


Typical Girder Holdown and Support

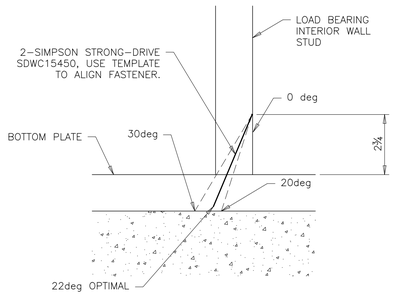
No Scale



BUILT-UP BEAM INTERCONNECTING DETAIL



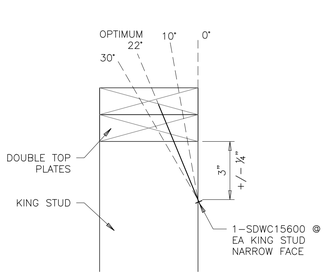
WALL STUD TO DOUBLE TOP PLATE CONNECTION

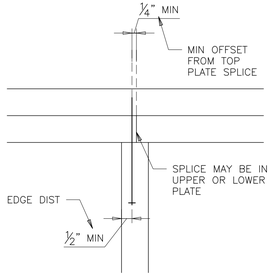


WALL STUD TO BOT PLATE CONNECTION

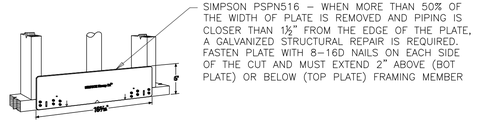
COMMON WIRE NAILS		
Nail Designation	Diameter	Length
8d	0.131"	2½"
10d	0.148"	3"
16d	0.162"	3½"

ALL FASTENERS FOR ROUGH CARPENTRY SHALL BE PER THE FOLLOWING TABLE UNLESS INDICATED OTHERWISE:



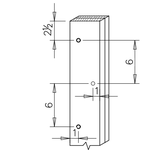


KING STUD TO DOUBLE TOP PLATE CONNECTION

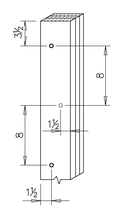


BOTTOM PLATE REPAIR

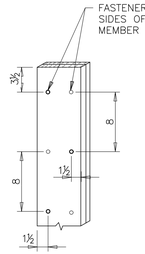
NO SCALE



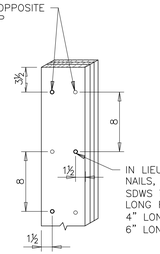
TWO 2X4 LAMINATIONS WITH ONE ROW OF STAGGERED 10D COMMON WIRE NAILS (D=0.148, L = 3)



THREE 2X4 LAMINATIONS WITH ONE ROW OF STAGGERED 30D COMMON WIRE NAILS OR SCREWS (Dmin=0.207, L = 4½)



TWO 2X6 LAMINATIONS WITH TWO ROWS OF 10D COMMON WIRE NAILS OR SCREWS (Dmin=0.148, L = 3)



THREE 2X6 LAMINATIONS WITH TWO ROWS OF STAGGERED 30D COMMON WIRE NAILS OR SCREWS (Dmin=0.207, L = 4½)

UNLESS OTHERWISE INDICATED ON PLANS, AT ROOF TRUSS GIRDER AND LVL BEAM SUPPORTS, PROVIDE BUILT UP COLUMNS WITH ONE COLUMN PLY TO MATCH EACH GIRDER PLY. MEMBER DEPTH TO MATCH WALL THICKNESS.

4X4 MAY BE USED IN LIEU OF 2-2X4
4X6 MAY BE USED IN LIEU OF 3-2X4 OR 4-2X4
6X6 MAY BE USED IN LIEU OF 3-2X6 OR 4-6X6

Typical Built Up Columns

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Minimum Fastening Requirements per IBC Table 2304.10.1

Description Of Building Elements	Number and Type of Fastener	Spacing and Location
ROOF		
1. Blocking between ceiling joists, rafters or trusses to top plate or other framing below	3–8d common (2-1/2"x0.131"); or 3–10d box (3"x0.128"); or 3–3" x 0.131" nails; or 3–3" 14 gage staples, 7/16" crown	Each end, toenail
Blocking between rafters or truss not at the wall top plate; to rafter or truss	2–8d common (2-1/2"x0.131") 2–3" x 0.131" nails 2–3" 14 gage staples	Each end, toenail
	2–16d common (3-1/2"x0.162") 3–3" x 0.131" nails 3–3" 14 gage staples	End nail
Flat blocking to truss and web filler	16d common (3-1/2"x0.162") @ 6" O.C. 3–3" x 0.131" nails 3–3" 14 gage staples	Face nail
2. Ceiling joists to top plate	3–8d common (2-1/2"x0.131"); or 3–10d box (3"x0.128"); or 3–3" x 0.131" nails; or 3–3" 14 gage staples, 7/16" crown	Each joist, toenail
3. Ceiling joist not attached to parallel rafter, laps over partitions (no thrust) (see Section 2308.7.3.1, Table 2308.7.3.1	3–16d common (3-1/2"x0.162"); or 4–10d box (3"x0.128"); or 4–3" x 0.131" nails; or 4–3" 14 gage staples, 7/16" crown	Face nail
4. Ceiling joist attached to parallel rafter (heel joint) (see Section 2308.7.3.1, Table 2308.7.3.1)	Per Table 2308.7.3.1	Face nail
5. Collar tie to rafter	3–10d common (3"x0.148"); or 4–10d box (3"x0.128"); or 4–3" x 0.131" nails; or 4–3" 14 gage staples, 7/16" crown	Face nail
6. Rafter or roof truss to top plate (See Section 2308.7.5, Table 2308.7.5)	3–10d common (3"x0.148"); or 3–16d box (3-1/2"x0.135"); or 4–10d box (3"x0.128"); or 4–3" x 0.131" nails; or 4–3" 14 gage staples, 7/16" crown	Toenail
7. Roof rafters to ridge valley or hip rafters; or roof rafter to 2–inch ridge beam	2–16d common (3-1/2"x0.162"); or 3–10d box (3"x0.128"); or 3–3" x 0.131" nails; or 3–3" 14 gage staples, 7/16" crown	End nail
	3–10d common (3"x0.148"); or 3–16d box (3-1/2"x0.135"); or 4–10d box (3"x0.128"); or 4–3" x 0.131" nails; or 4–3" 14 gage staples, 7/16" crown	Toenail

Minimum Fastening Requirements per IBC Table 2304.10.1

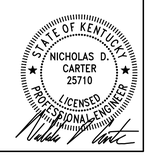
Description Of Building Elements	Number and Type of Fastener	Spacing and Location
WALL		
8. Stud to stud (not at braced wall panels)	16d common (3-1/2"x0.162");	24" o.c. face nail
	10d box (3"x0.128"); or 3" x 0.131" nails; or 3–3" 14 gage staples, 7/16" crown	16" o.c. face nail
9. Stud to stud and abutting studs at intersecting wall corners (at braced wall panels)	16d common (3-1/2"x0.162"); or	16" o.c. face nail
	16d box (3-1/2"x0.135"); or	12" o.c. face nail
	3" x 0.131" nails; or 3–3" 14 gage staples, 7/16" crown	12" o.c. face nail
10. Built–up header (2" to 2" header)	16d common (3-1/2"x0.162"); or	16" o.c. each edge, face nail
	16d box (3-1/2"x0.135")	12" o.c. each edge, face nail
11. Continuous header to stud	4–8d common (2-1/2"x0.131"); or 4–10d box (3"x0.128")	Toenail
12. Top plate to top plate	16d common (3-1/2"x0.162");	16" o.c. face nail
	10d box (3"x0.128"); or 3" x 0.131" nails; or 3" 14 gage staples, 7/16" crown	12" o.c. face nail
13. Top plate to top plate, at end joints	8–16d common (3-1/2"x0.162"); or 12–10d box (3"x0.128"); or 12–3"x0.131" nails; or 12–3" 14 gage staples, 7/16" crown	Each side of end joint, face nail (minimum 24" lap splice length each side of end joint)
14. Bottom plate to joist, rim joist, band joist or blocking (not at braced wall panels)	16d common (3-1/2"x0.162");	16" o.c. face nail
	16d box (3-1/2"x0.135"); or 3" x 0.131" nails; or 3" 14 gage staples, 7/16" crown	12" o.c. face nail
15. Bottom plate to joist, rim joist, band joist or blocking at braced wall panels	2–16d common (3-1/2"x0.162"); or 3–16d box (3-1/2"x0.135"); or 4–3"x0.131" nails; or 3" 14 gage staples, 7/16" crown	16" o.c. face nail
16. Stud to top or bottom plate	4–8d common (2-1/2"x0.131"); or 4–10d box (3"x0.128"); or 4–3"x0.131" nails; or 4–3" 14 gage staples, 7/16" crown; or 4–10d common at 2x8 studs	Toenail
	2–16d common (3-1/2"x0.162"); or 3–10d box (3"x0.128"); or 3–3" x 0.131" nails; or 3–3" 14 gage staples, 7/16" crown 3–16d common at 2x8 studs	End nail
17. Top or bottom plate to stud	2–16d common (3-1/2"x0.162"); or 3–10d box (3"x0.128"); or 3–3" x 0.131" nails; or 3–3" 14 gage staples, 7/16" crown 3–16d common at 2x8 studs	End nail
18. Top plates, laps at corners and intersections	2–16d common (3-1/2"x0.162"); or 3–10d box (3"x0.128"); or 3–3" x 0.131" nails; or 3–3" 14 gage staples, 7/16" crown	Face nail

Minimum Fastening Requirements per IBC Table 2304.10.1

Description Of Building Elements	Number and Type of Fastener	Spacing and Location
WALL		
19. 1" brace to each stud and plate	2–8d common (2-1/2"x0.131"); or 2–10d box (3"x0.128"); or 2–3"x0.131" nails; or 2–3" 14 gage staples, 7/16" crown	Face nail
20. 1"x6" sheathing to each bearing	2–8d common (2-1/2"x0.131"); or 2–10d box (3"x0.128"); or	Face nail
21. 1"x8" and wider sheathing to each bearing	3–8d common (2-1/2"x0.131"); or 3–10d box (3"x0.128"); or	Face nail
FLOOR		
22. Joist to sill, top plate, or girder	3–8d common (2-1/2"x0.131"); or floor 3–10d box (3"x0.128"); or 3–3"x0.131" nails; or 3–3" 14 gage staples, 7/16" crown	Toenail
23. Rim joist, band joist, or blocking to top plate, sill or other framing below	8d common (2-1/2"x0.131"); or 10d box (3"x0.128"); or 3" x 0.131" nails; or 3" 14 gage staples, 7/16" crown	6" o.c., toenail
24. 1"x6" subfloor or less to each joist	2–8d common (2-1/2"x0.131"); or 2–10d box (3"x0.128"); or	Face nail
25. 2" subfloor to joist or girder	2–16d common (3-1/2"x0.162")	Face nail
26. 2" planks (plank & beam–floor & roof	2–16d common (3-1/2"x0.162")	Each bearing, face nail
27. Built–up girders and beams, 2" lumber layers	20d common (4"x0.192")	32" o.c. face nail at top and bottom staggered on opposite sides
	10d box (3"x0.128"); or 3"x0.131" nails; or 3" 14 gage staples, 7/16" crown	24" o.c. face nail at top and bottom staggered on opposite sides
	And: 2–20d common (4"x0.192"); or 3–10d box (3"x0.128"); or 3–3"x0.131" nails; or 3–3" 14 gage staples, 7/16" crown	Ends and at each splice, face nail
28. Ledger strip supporting joists or rafters	3–16d common (3-1/2"x0.162"); or 4–10d box (3"x0.128"); or 4–3" x 0.131" nails; or 4–3" 14 gage staples, 7/16" crown	Each joist or rafter; face nail
29. Joist to band joist or rim joist	3–16d common (3-1/2"x0.162"); or 4–10d box (3"x0.128"); or 4–3" x 0.131" nails; or 4–3" 14 gage staples, 7/16" crown	End nail
30. Bridging or blocking joist, rafter or truss	2–8d common (2-1/2"x0.131"); or 2–10d box (3"x0.128"); or 2–3" x 0.131" nails; or 2–3" 14 gage staples, 7/16" crown	Each end, toenail

Minimum Fastening Requirements per IBC Table 2304.10.1

Description Of Building Elements	Number and Type of Fastener	Spacing and Location	
WOOD STRUCTURAL PANELS (WSP), SUBFLOOR, ROOF & INTERIOR WALL SHEATHING TO FRAMING & PARTICLEBOARD WALL SHEATHING TO FRAMING			
		EDGES (INCHES)	INTERMEDIATE SUPPORTS (INCHES)
31. 3/8" – 1/2"	6d common or deformed (2"x0.113") (subfloor and wall)	6	12
	8d box or deformed (2-1/2"x0.113") (roof)	6	12
	2–3/8"x0.113" nail (subfloor and wall)	6	12
	1–3/4" 16 gage staple, 7/16" crown (subfloor and wall)	4	8
	2–3/8"x0.113" nail (roof)	4	8
	1–3/4" 16 gage staple, 7/16" crown (roof)	3	6
32. 19/32" – 3/4"	8d common (2-1/2"x0.131"); or 6d deformed (2"x0.113")	6	12
	2–3/8"x0.113 nail; or 2" 16 gage staple, 7/16" crown	4	8
33. 7/8" – 1–1/4"	10d common (3"x0.148"); or 8d deformed (2–1/2"x0.131")	6	12
OTHER EXTERIOR WALL SHEATHING			
34. 1/2" fiberboard sheathing	1–1/2" galvanized roof nail (7/16" head diameter); or 1–1/4" 16 gage staple with 7/16" or 1" crown	3	6
35. 25/32" fiberboard sheathing	1–3/4" galvanized roof nail (7/16" head diameter); or 1–1/2" 16 gage staple with 7/16" or 1" crown	3	6
WOOD STRUCTURAL PANELS, COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING			
36. 3/4" and less	8d common (2-1/2"x0.131"); or 6d deformed (2"x0.113")	6	12
37. 7/8" – 1"	8d common (2-1/2"x0.131"); or 8d deformed (2–1/2"x0.131")	6	12
38. 1–1/8" – 1–1/4"	10d common (3"x0.148"); or 8d deformed (2–1/2"x0.131")	6	12
PANEL SIDING TO FRAMING			
39. 1/2" or less	6d corrosion–resistant siding (1–7/8"x0.106"); or 6d corrosion–resistant casing (2"x0.099")	6	12
40. 5/8"	8d corrosion–resistant siding (2–3/8"x0.128"); or 8d corrosion–resistant casing (2–1/2"x0.113")	6	12
INTERIOR PANELING			
41. 1/4"	4d casing (1–1/2"x0.080"); or 4d finish (1–1/2"x0.072")	6	12
42. 3/8"	6d casing (2"x0.099"); or 6d finish (Panel supports at 24 inches)	6	12



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CONSTRUCTION DOCUMENTS

TYPICAL DETAILS

Addition & Renovation
OVEC Head Start
7304 Dixie Highway
Louisville, KY 40258

DATE : 2/17/21
DRAWN BY : BTC
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REVISIONS :

2019-52.06

S0.4

FOUNDATION PLAN

SCALE: ¼"=1'-0"

SEE TYPICAL BUILT UP COLUMNS DETAIL SHEET S0.3

SHEARWALL SCHEDULE

SHEARWALL	SHEATHING	FASTENING	HOLDOWN	POST SIZE	HOLDOWN ANCHOR BOLT	REMARKS
SW1	7/16" APA RATED 24/16 STRUCTURAL SHEATHING	6 – 12 8d common 0.131"x2½"	DTT2Z–SDS2.5	(2) 2x	½" GR. 36 A.B. EMBEDDED 8" INTO FOOTING W/ SIMPSON SET–XP EPOXY.	PANEL EDGES BLOCKED
SW2	⅝" GYPSUM WALL BOARD	4 – 4 6d common 0.120"x2"	DTT2Z–SDS2.5	(2) 2x	½" GR. 36 A.B. EMBEDDED 8" INTO THICKENED SLAB W/ SIMPSON SET–XP EPOXY.	PANEL EDGES BLOCKED

SHEET INTERIOR STUD SPACING

EDGE SPACING

SHEARWALL NOTES:

1. ALL 7/16" OSB SHEARWALL SHEATHING SHALL BE EXPOSURE 1, RATED SHEATHING AND HAVE A SPLAN RATING NOT LESS THAN 24/16.
2. INDICATED NAIL SPACING IS ALONG SHEET EDGES AND ALONG INTERIOR STUDS.
3. ALL PANEL EDGES SHALL BE BLOCKED FOR BOTH SHEAR WALLS.

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FOUNDATION PLAN

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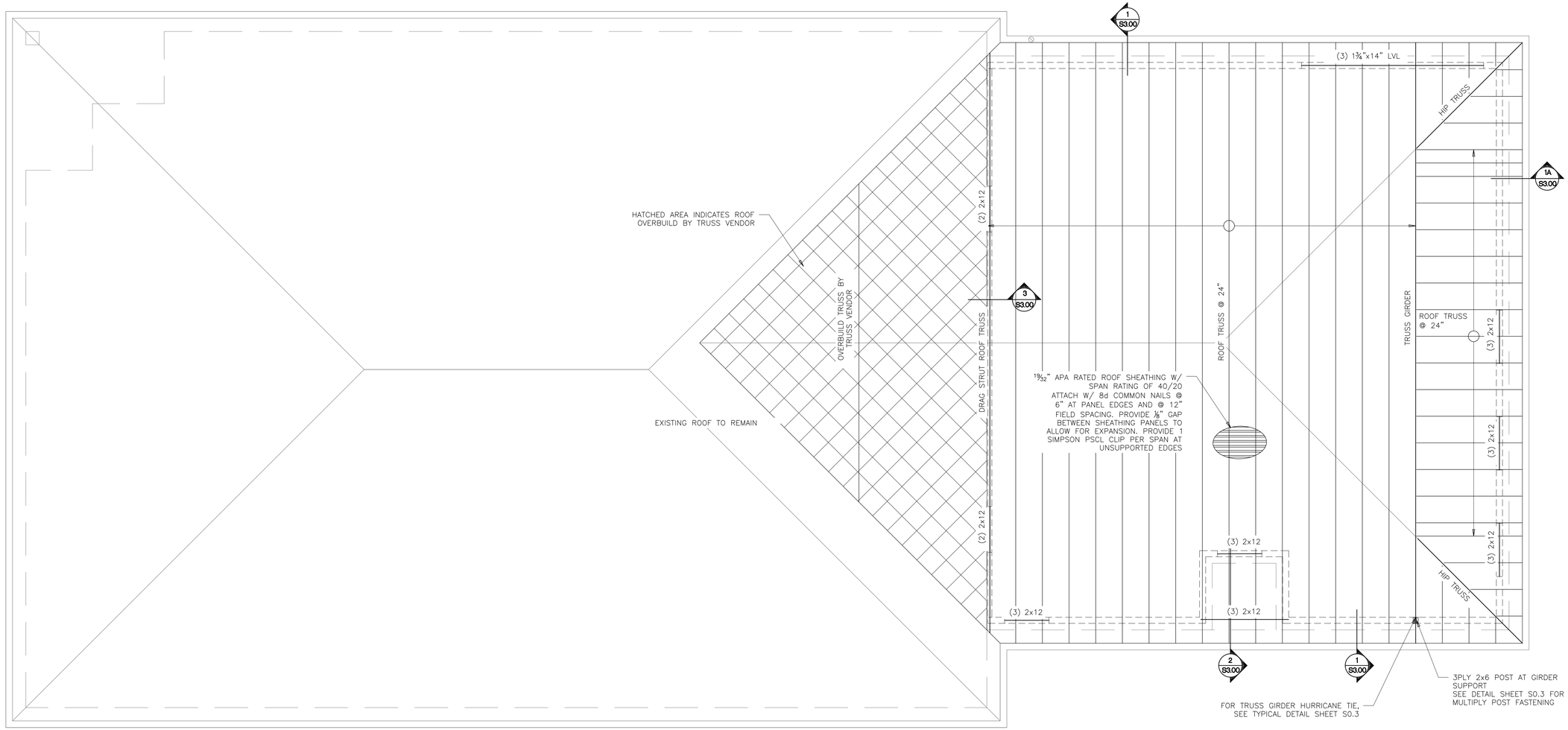

ROOF FRAMING PLAN

SCALE: ¼"=1'-0"

DRAWING NOTES:

1. ROOF TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING LOADS IN ADDITION TO THE ROOF TRUSS SELF WEIGHT:

   DEAD LOAD
   - TOP CHORD 10 PSF
   - BOTTOM CHORD 10 PSF

   LIVE LOAD 20 PSF

   **UNLESS EXCEEDED BY SNOW. SEE GENERAL NOTES

2. TRUSS MANUF. TO ADJUST TRUSS FRAMING AS REQUIRED TO ACCOMMODATE MECHANICAL DUCT PENETRATIONS THRU TRUSS SPACE.
3. ROOF TRUSS SHALL BE DESIGNED FOR THE MINIMUM ROOF LOADS INDICATED.
4. TRUSS MANUF. SHALL PROVIDE BRIDGING AND CONNECTIONS PER TPI-1/BCSI REQUIREMENTS.
5. ROOF TRUSS BEARING ELEV = MATCH EXISTING BUILDING BEARING ELEVATION. CONTRACTOR TO FIELD VERIFY.

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ROOF FRAMING PLAN

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OVEC Head Start
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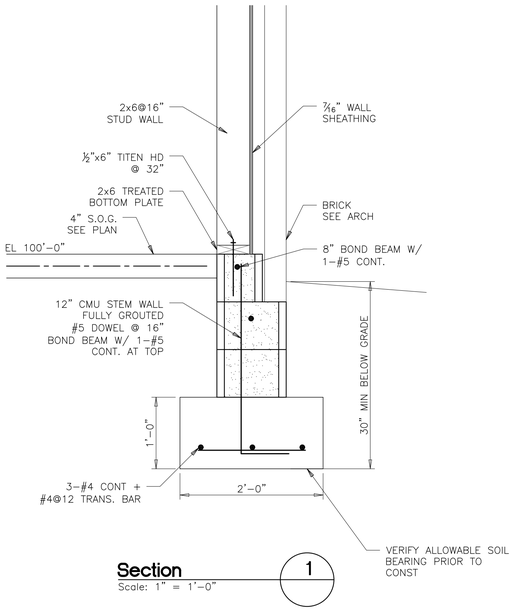
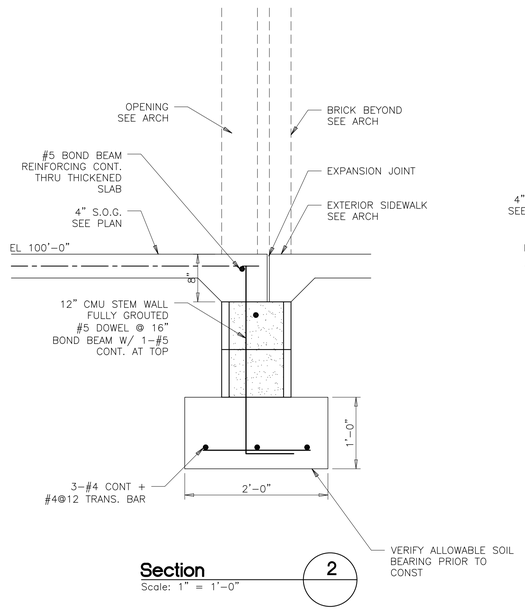


Section 1
Scale: 1" = 1'-0"



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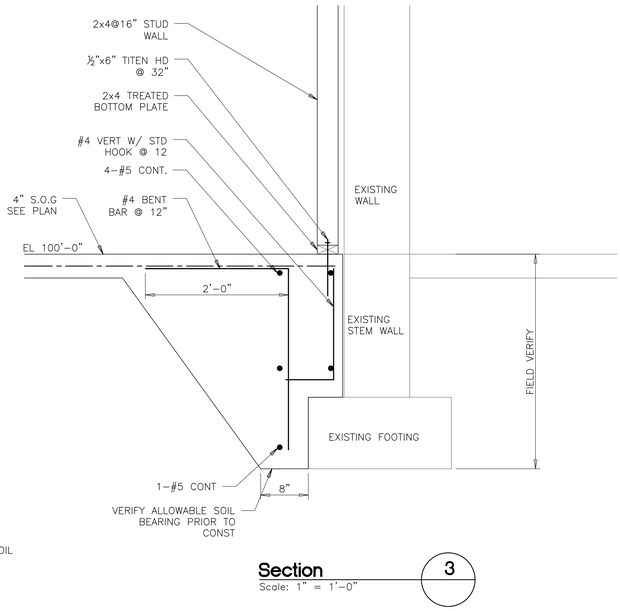

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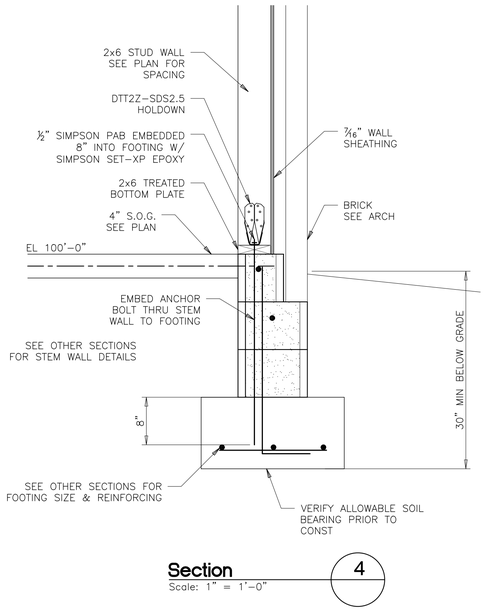

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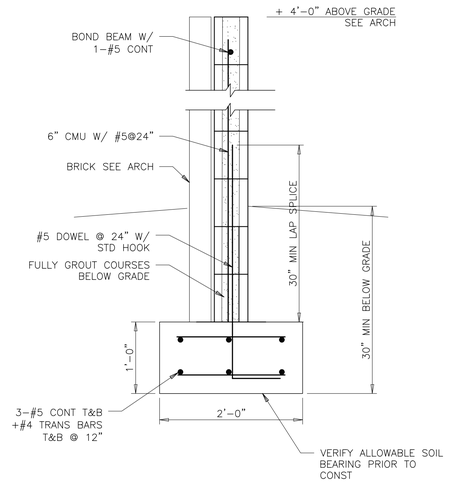

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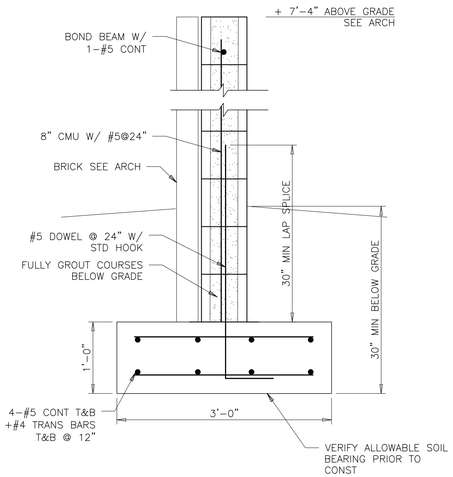

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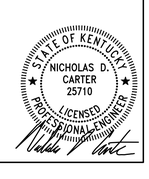

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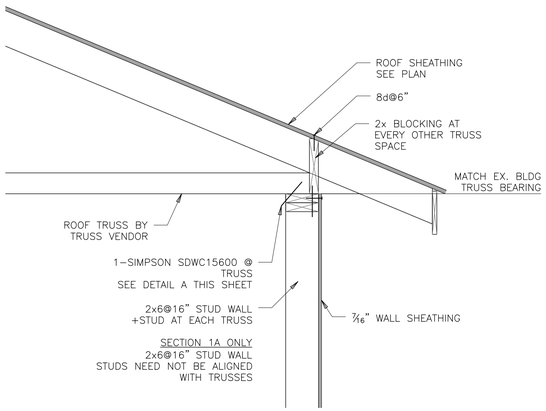

Section 1 1A
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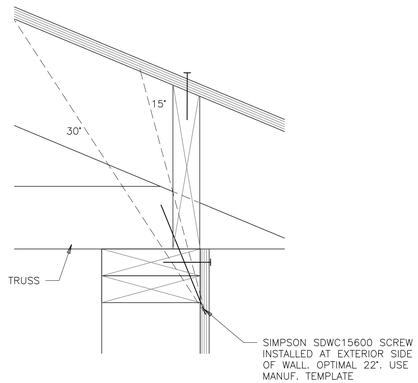

Detail A
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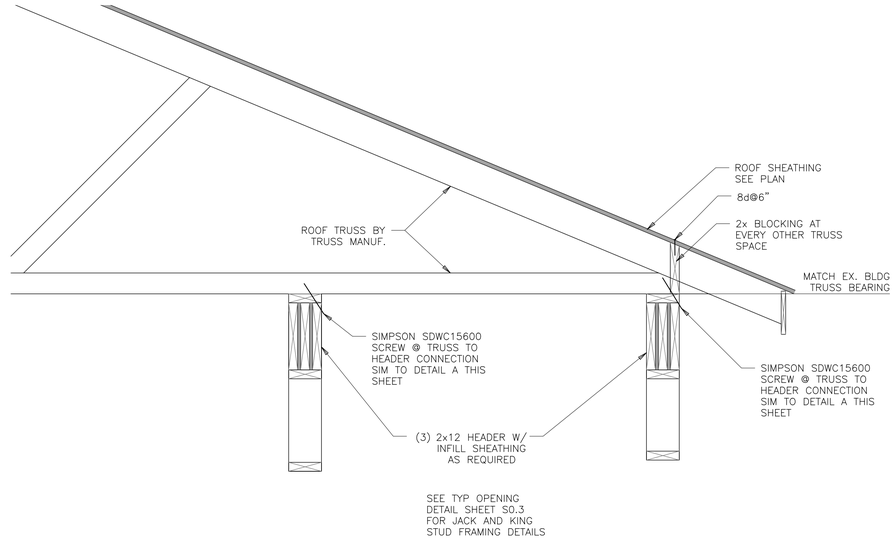

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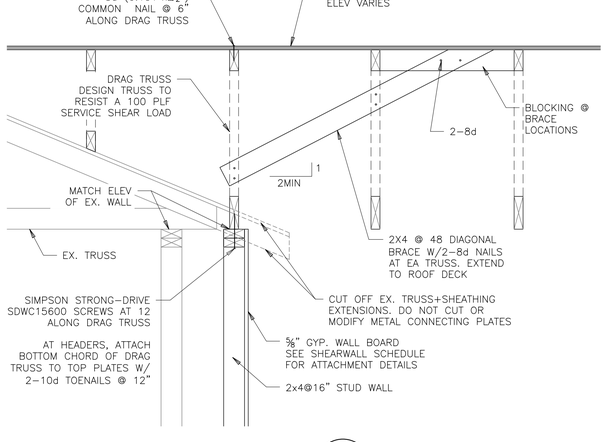

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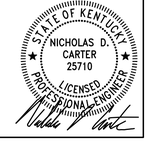

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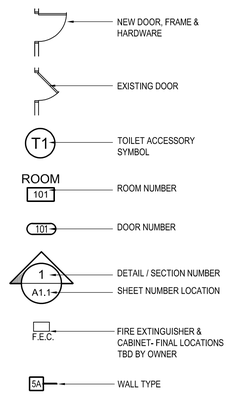
SYMBOLS LEGEND:

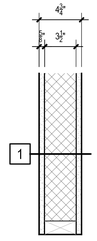


ABBREVIATIONS:

ACT	ACOUSTICAL TILE CEILING
ADJ	ADJACENT
ALUM	ALUMINUM
B.O.	BOTTOM OF
CSWK	CASEWORK
CPT	CARPET
CT	CERAMIC TILE
DED	DEDICATED
D.S.	DOWNSPOUT
DWGS	DRAWINGS (OR SHEETS)
EX	EXISTING
F.O.F.	FACE OF FINISH
GALV	GALVANIZED
GR	GRANITE
GWB	GYPSUM WALL BOARD
IRGWB	IMPACT RESISTANT GYPSUM WALL BOARD
M.O.	MASONRY OPENING
PLY	PLYWOOD
PR	PAIR
PT	PAINT
PTD	PAINTED
QT	QUARRY TILE
RB	RUBBER BASE
ST	STAIN
VB	VINYL BASE
VT	VINYL COMPOSITION TILE
VF	VINYL FACE
VWC	VINYL WALL COVERING
WB	WALL BASE
WD	WOOD
WS	WINDOW SHADES
SC	SEALED CONCRETE
T.O.	TOP OF
U.N.O.	UNLESS NOTED OTHER WISE

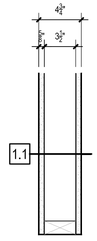
GENERAL NOTES:

1. CONTRACTOR SHALL SUBMIT DRAWINGS FOR BUILDING PERMIT. CONTRACTOR SHALL OBTAIN ALL PERMITS, LICENSES AND INSPECTIONS FROM STATE AND LOCAL AUTHORITIES HAVING JURISDICTION FOR THIS INTERIOR DEVELOPMENT PROJECT.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXISTING CONDITIONS. PRIOR TO ANY WORK, THE CONTRACTOR SHALL VERIFY, IN THE FIELD, ALL DIMENSIONS AND ELEVATIONS WHICH ARE REQUIRED FOR CONNECTIONS TO, OR INSTALLATION IN, AREAS COVERED BY THESE DOCUMENTS. REPORT ANY DISCREPANCIES TO THE ARCHITECT.
3. CONTRACTOR SHALL PROVIDE ONSITE SUPERVISION ANYTIME SUB-CONTRACTOR(S) ARE ON SITE.
4. CONTRACTOR SHALL PROTECT ALL EXISTING ITEMS AND CONSTRUCTION TO REMAIN. ALL EXISTING CONDITIONS SHALL REMAIN UNLESS NOTED OTHERWISE.
5. PROVIDE FIRE STOPPING WHERE REQUIRED BY CODE. FASTENERS FOR WALLS/SOFFIT FRAMING SHALL BE IN ACCORDANCE WITH KENTUCKY BUILDING CODE.
6. PROVIDE BRACING AND SUPPORT AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF THE AREAS OF WORK. ALL REQUIRED SHORING AND BRACING, DESIGN AND INSTALLATION, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
7. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE OWNERS STANDARDS.
8. CONTRACTOR SHALL MAINTAIN ALL EXITS OPEN DURING OCCUPIED TIMES.
9. ALL FURNITURE, EQUIPMENT, DISPLAYS AND SYSTEMS FURNITURE FURNISHED BY OWNER SHALL BE INSTALLED BY THE CONTRACTOR AND COORDINATED WITH THE OWNER.
10. WELDING AND HOT WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE OSHA STANDARDS, JOB SPECIFICATIONS, OWNERS POLICIES & PROCEDURES, AND LOCAL CODES.
11. PROVIDE AUTOMATIC EMERGENCY LIGHTING AND MAINTAIN LIGHTING LEVELS FOR EGRESS OUT OF SPACE PER STATE AND LOCAL CODE.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL CLEANUP IN AND AROUND THE PROJECT AREA, IN ASSOCIATED STAGING OR DUMPING LOCATIONS, AND EXTERIOR AREAS.
13. MECHANICAL / ELECTRICAL/ PLUMBING SHOWN IN ARCHITECTURAL IS FOR REFERENCE ONLY. CONTRACTOR RESPONSIBLE FOR DESIGN AND COORDINATION.
14. CONTRACTOR SHALL PROPERLY REMOVE AND DISPOSE OF ALL ABANDONED OR UNUSED WATER SUPPLY AND WASTE LINE MATERIAL IN A LAWFUL MANNER. ALL ABANDONED OR UNUSED WATER SUPPLY LINES SHALL BE REMOVED BACK TO THE MAIN SUPPLY. ALL ABANDONED OR UNUSED WATER WASTE LINE MATERIAL SHALL BE REMOVED TO A PREDETERMINED LOCATION AND LAWFULLY CAPPED.
15. ALL EXISTING STUD WALLS TO REMAIN SHALL RECEIVE NEW GWB. THIS INCLUDES, BUT IS NOT LIMITED TO, NEW GWB AT ALL EXISTING EXTERIOR WALLS.



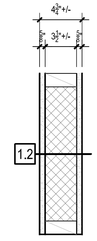
WALL TYPE 1:

- WOOD STUD WALL (5" NOMINAL DIMENSION)
  - 5/8" TYPE "X" GWB
  - 2x4 nom. WOOD STUD FRAMING@ 16"o.c. w/ SOUND BATT INSULATION. - P.T. BASE PLATE WHEN CONTACTING CONCRETE SLAB
  - 5/8" TYPE "X" GWB
  - WOOD FRAMING TO BE BRACED TO ROOF STRUCTURE ABOVE, TYP.



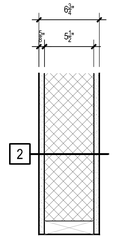
WALL TYPE 1.1:

- WOOD STUD WALL (5" NOMINAL DIMENSION)
  - 5/8" TYPE "X" GWB
  - 2x4 nom. WOOD STUD FRAMING@ 16"o.c. - P.T. BASE PLATE WHEN CONTACTING CONCRETE SLAB
  - 5/8" TYPE "X" GWB
  - WOOD FRAMING TO BE BRACED TO ROOF STRUCTURE ABOVE, TYP.



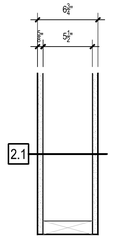
WALL TYPE 1.2:

- WOOD STUD WALL
  - 5/8" TYPE "X" GWB
  - 2x WOOD STUD FRAMING @ 16"o.c. w/ SOUND BATT INSULATION. FRAMING TO BE SIZED ACCORDINGLY @ INFILL AREAS TO MATCH EXISTING WIDTH OF WALL w/ GWB TO BE FLUSH WITH ADJACENT SURFACES.
  - WOOD FRAMING TO BE BRACED TO ROOF STRUCTURE ABOVE OR INFILL EXISTING OPENINGS COMPLETELY.



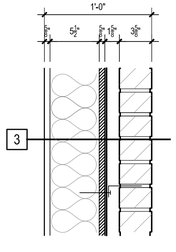
WALL TYPE 2:

- WOOD STUD WALL (7" NOMINAL DIMENSION)
  - 5/8" TYPE "X" GWB
  - 2x6 nom. WOOD STUD FRAMING @ 16"o.c. w/ SOUND BATT INSULATION - P.T. BASE PLATE WHEN CONTACTING CONCRETE SLAB
  - 5/8" TYPE "X"GWB
  - WOOD FRAMING TO BE BRACED TO ROOF STRUCTURE ABOVE, TYP.



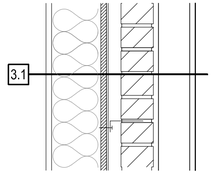
WALL TYPE 2:

- WOOD STUD WALL (7" NOMINAL DIMENSION)
  - 5/8" TYPE "X" GWB
  - 2x6 nom. WOOD STUD FRAMING @ 16" o.c. - P.T. BASE PLATE WHEN CONTACTING CONCRETE SLAB
  - 5/8" TYPE "X"GWB
  - WOOD FRAMING TO BE BRACED TO ROOF STRUCTURE ABOVE, TYP.



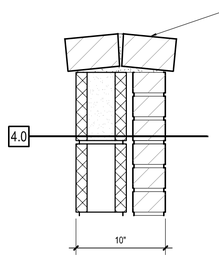
WALL TYPE 3:

- 4" FACE BRICK VENEER
  - 3-5/8" x 2 1/4" x 7-5/8"
  - w/ ADJUSTABLE MASONRY TIES
  - 1 5/8" AIR SPACE
- **2X6 STUD FRAMING @ 16" o.c.**
  - CONT. BUILDING WRAP
  - ½" EXTERIOR SHEATHING
  - R-20 BATT INSULATION WITHIN WALL CAVITIES
  - 5/8" HIGH-IMPACT GWB



WALL TYPE 3.1:

- EXISTING EXTERIOR WALL AT ADDITION
  -PROVIDE NEW ⅝" HIGH-IMPACT GWB AT EXISTING INTERIOR STUD WALL AS REQUIRED.
- **NEW 2X4 STUD FRAMING @ 16" o.c.** AT MASONRY SIDE OF EXISTING WALL, ANCHOR AT TOP AND BOTTOM
  -5/8" HIGH-IMPACT GWB



WALL TYPE 4.0: MECHANICAL SCREEN WALL

- 4" FACE BRICK VENEER
  - 3 ⅝" X 2 ¼" X 7 ⅝"
  - w/ ADJUSTABLE MASONRY TIES
- **6" CMU**

1 / A0.01

WALL TYPES LEGEND

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

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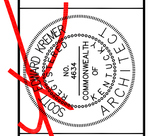


WALL TYPES, LEGENDS, &NOTES

Addition & Renovation
OVEC Head Start
7304 Dixie Highway
Louisville, KY 40258

DATE: 03.17.2021
DRAWN BY: JA / BM
CHECKED BY:
REVISIONS:

2019-52.06

A0.00

GENERAL DEMOLITION NOTES:

A. ALL MATERIAL TO BE REMOVED IS TO BE DISPOSED OF IN A LAWFUL MANNER.

B. COORDINATE FULL SCOPE OF DEMOLITION SCOPE w/ DEMOLITION DRAWINGS **AND** RENOVATION DRAWINGS. SCOPE OF DEMOLITION WORK SHALL BE ADEQUATE TO PROPERLY PROVIDE THE RENOVATION CONDITIONS.

C. COORDINATE ALL MECHANICAL AND ELECTRICAL CUTTING AND PATCHING WITH MEP DRAWINGS.

D. ALL EXISTING GWB AT EXTERIOR WALLS TO BE REMOVED.

DEMOLITION NOTES:

1. REMOVE PORTION OF WALL DOWN TO 42" AFF. PROVIDE WOOD BLOCKING AT THIS ELEVATION TO ACCEPT A SOLID SURFACE TOP.

1.1 REMOVE PORTION OF WALL TO INSTALL NEW DOOR PER DOOR SCHEDULE AND RENOVATION DRAWINGS.

1.2 REMOVE PORTION OF WALL TO 7'-0" AFF AND WRAP JAMB CONDITIONS FOR A GWB OPENING.

1.3 REMOVE WALL COMPLETE - VERIFY THAT WALL IS NOT LOAD BEARING PRIOR TO REMOVAL.

2. REMOVE DOOR AND HARDWARE, PREP REMAINING JAMB CONDITION TO ACCOMMODATE RENOVATION SCOPE OF WORK.

2.1 REMOVE EXISTING DOOR, FRAME AND HARDWARE. PREP JAMB CONDITIONS TO RECEIVE NEW GWB FINISH TO CREATE GWB OPENING.

2.2 REMOVE EXISTING DOOR, FRAME AND HARDWARE AND PREP OPENING TO RECEIVE NEW WALL INFILL PER WALL TYPES SCHEDULE.

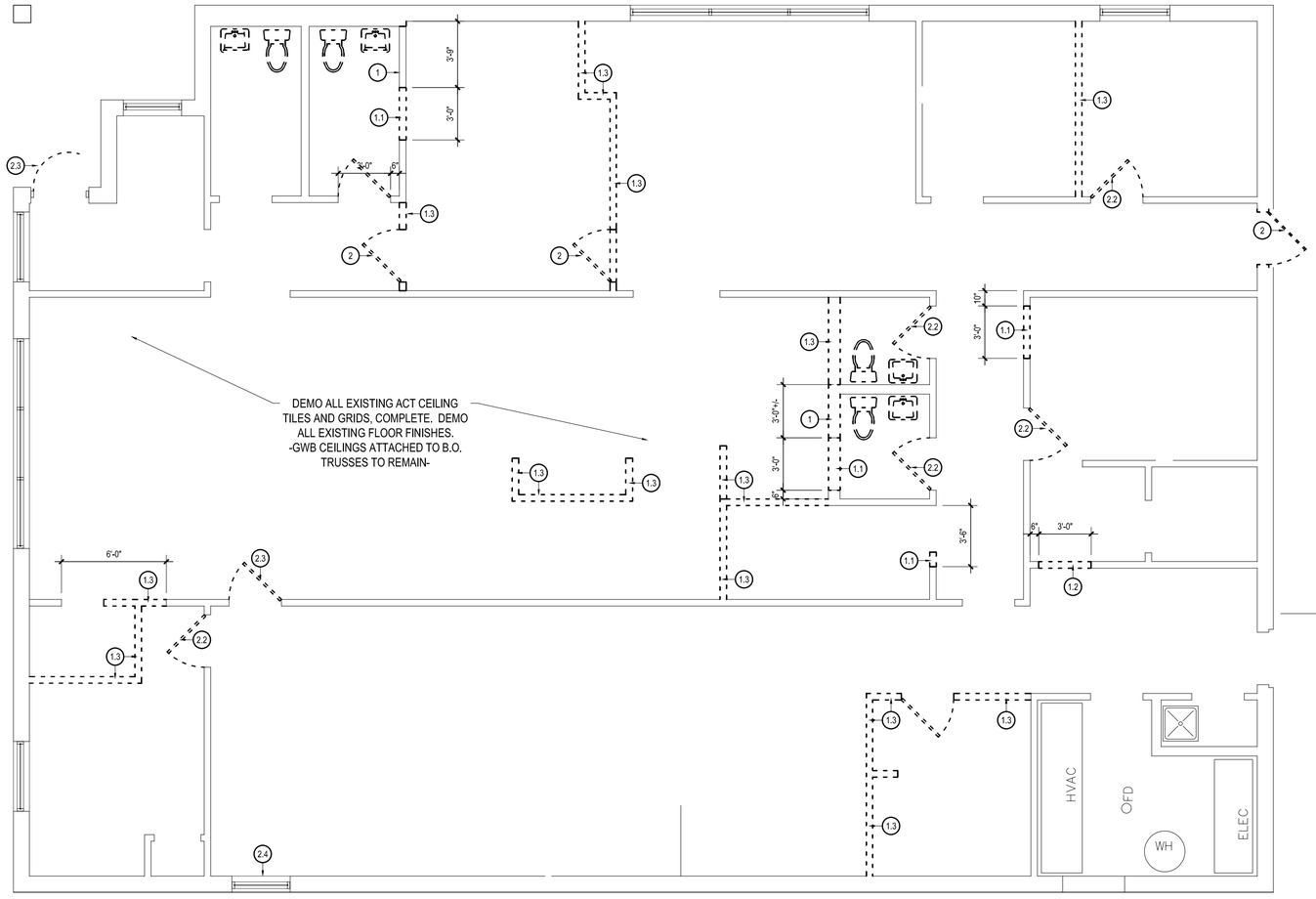
2.3 REMOVE EXISTING DOOR, FRAME AND HARDWARE AND PREP OPENING TO RECEIVE NEW DOOR AND FRAME PER DOOR SCHEDULE.

2.4 REMOVE EXISTING WINDOW AND PREP OPENING TO RECEIVE NEW WINDOW, MATCH EXISTING.

3.1 REMOVE AND DISPOSE OF EXISTING GWB SOFFIT COMPLETE- HANGARS, WIRES, FRAMING AND SUPPORT SYSTEMS. PATCH WALL AS NECESSARY AND PREPARE WALL FOR NEW WALL FINISH.

3.2 REMOVE ALL EXISTING CEILING TILES CONNECTED TO EXISTING CEILING- INCLUDING ALL ASSOCIATED HANGERS, WIRES, FRAMING AND SUPPORT SYSTEMS. PERFORM NECESSARY TESTING AND ABATEMENT AS REQUIRED.

3.3 REMOVE ALL EXISTING GYP. BOARD CEILING- INCLUDING ALL ASSOCIATED HANGERS, WIRES, FRAMING AND SUPPORT SYSTEMS. PERFORM NECESSARY TESTING AND ABATEMENT AS REQUIRED.



01 DEMOLITION FLOOR PLAN

Scale: 1/4" = 1'-0"

studio kremer architects
1231 S Shelby St. Louisville, KY 40203
TEL 502.499.1100 FAX 502.499.1101

DEMOLITION FLOOR PLAN

Addition & Renovation
OVEC Head Start
7304 Dixie Highway
Louisville, KY 40258

DATE: 03.17.2021
DRAWN BY: JA / BM
CHECKED BY:
REVISIONS:

2019-52.06

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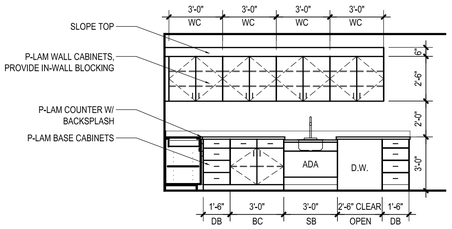
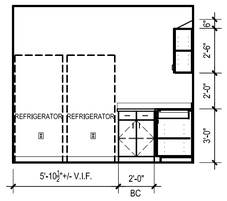


A CASEWORK ELEV

Scale: 1/4" = 1'-0"



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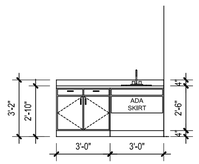

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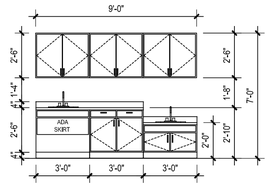

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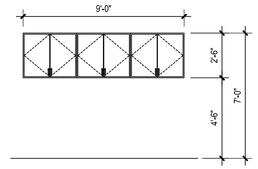

E CASEWORK ELEV

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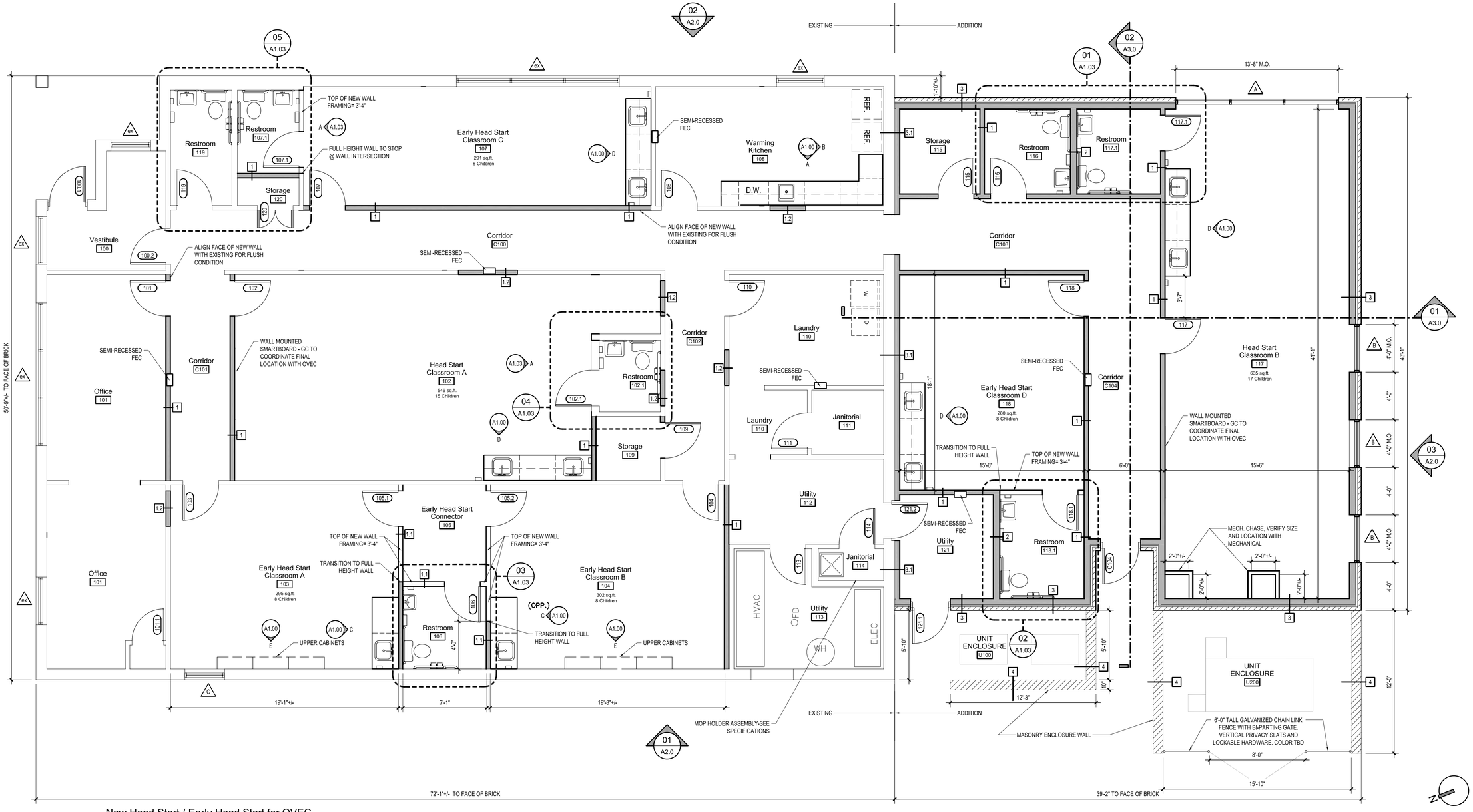

01 New Head Start / Early Head Start for OVEC
FLOOR PLAN

Scale: 1/4" = 1'-0"

studio kremer architects
1231 S Shelby St. Louisville, KY 40203
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RENOVATION FLOOR PLAN

Addition & Renovation
OVEC Head Start
7304 Dixie Highway
Louisville, KY 40258

DATE: 03.17.2021
DRAWN BY: JA / BM
CHECKED BY:
REVISIONS:

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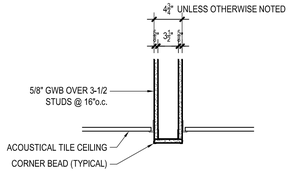
REFLECTED CEILING LEGEND / NOTES:

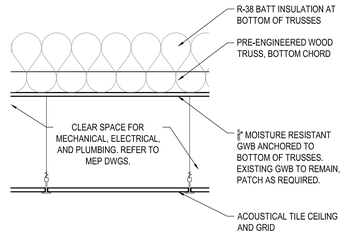
NEW 2x2 SUSPENDED CEILING

NEW GYPSUM WALL BOARD CEILING, SOFFIT OR BULKHEAD

- COORDINATE EXACT GRID LAYOUT WITH FIELD CONDITIONS AND MECHANICAL / ELECTRICAL LIGHTING LAYOUT.
- CEILING TILE SHALL BE WHITE 2'-0"x2'-0" ARMSTRONG ULTIMA SQUARE LAY-IN TILE w/ 15/16" WHITE GRID. REFER TO MANUFACTURER'S DETAILS FOR INSTALLATION REQUIREMENTS. NEW TILES SHOULD MATCH EXISTING, VERIFY IN FIELD PRIOR TO ORDERING AND INSTALL.
- LIGHTING SHOWN FOR REFERENCE ONLY. COORDINATE w/ ELECTRICAL DRAWINGS FOR EXACT LIGHT FIXTURE TYPE AND PLACEMENT.
- REFER TO MECHANICAL DRAWINGS FOR CEILING MOUNTED EQUIPMENT AND SPRINKLER LOCATIONS.
- CENTER **ALL** CEILING MOUNTED DEVICES AND EQUIPMENT IN CEILING PANELS.
- **ALL** GWB CEILINGS, SOFFITS AND BULKHEADS ARE TO BE PREPPED, PRIMED AND PAINTED COMPLETE.
- BULKHEAD AND SOFFIT FRAMING SHALL BE OF 4" NOM. OR 6" NOM. STUD FRAMING AND BRACED BACK TO ROOF STRUCTURE ABOVE.



TYPICAL BULKHEAD SECTION
1" = 1'-0"



TYPICAL CEILNG SECTION
1" = 1'-0"

01 New Head Start / Early Head Start for OVEC
SCHEMATIC FLOOR PLAN

Scale: 1/4" = 1'-0"

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RENOVATION CEILING PLAN

Addition & Renovation
OVEC Head Start
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ROOFING FRAMING NOTES:

A. PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER, REGISTERED TO PRACTICE IN THE STATE OF KENTUCKY. DESIGN SHALL CONFORM TO THE REQUIREMENTS OF THE REFERENCED CODES, THE A.I.T.C., THE TRUSS PLATE INSTITUTE, AND THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION. WRITTEN CERTIFICATION VERIFYING COMPLIANCE SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION AND/OR CONSTRUCTION.

B. TRUSS AND WOOD FRAMING CONNECTIONS SHALL BE DESIGNED ACCORDING TO THE REQUIREMENTS OF THE TRUSS PLATE INSTITUTE, THE NATIONAL FOREST PRODUCTS ASSOCIATION, AND THE AMERICAN INSTITUTE FOR TIMBER CONSTRUCTION (A.I.T.C.).

C. THE TRUSS MANUFACTURER SHALL DESIGN AND FURNISH TRUSS BRACING AND BRIDGING AND MISCELLANEOUS FRAMING REQUIRED BY ANALYSIS.

D. WOOD ROOF TRUSSES SHALL NOT BE ASSUMED STRUCTURALLY STABLE UNTIL ALL MEMBERS ARE IN PLACE. ANY USE OF THE PARTIALLY ERECTED FRAMEWORK FOR TEMPORARY SUPPORT OF ANY KIND SHALL BE DONE ONLY AT THE CONTRACTOR'S RISK.

E. ALL CONNECTORS OF WOOD TRUSSES TO COMMON LUMBER FRAMING SHALL BE SIMPSON "STRONG-TIE" OR APPROVED EQUAL.

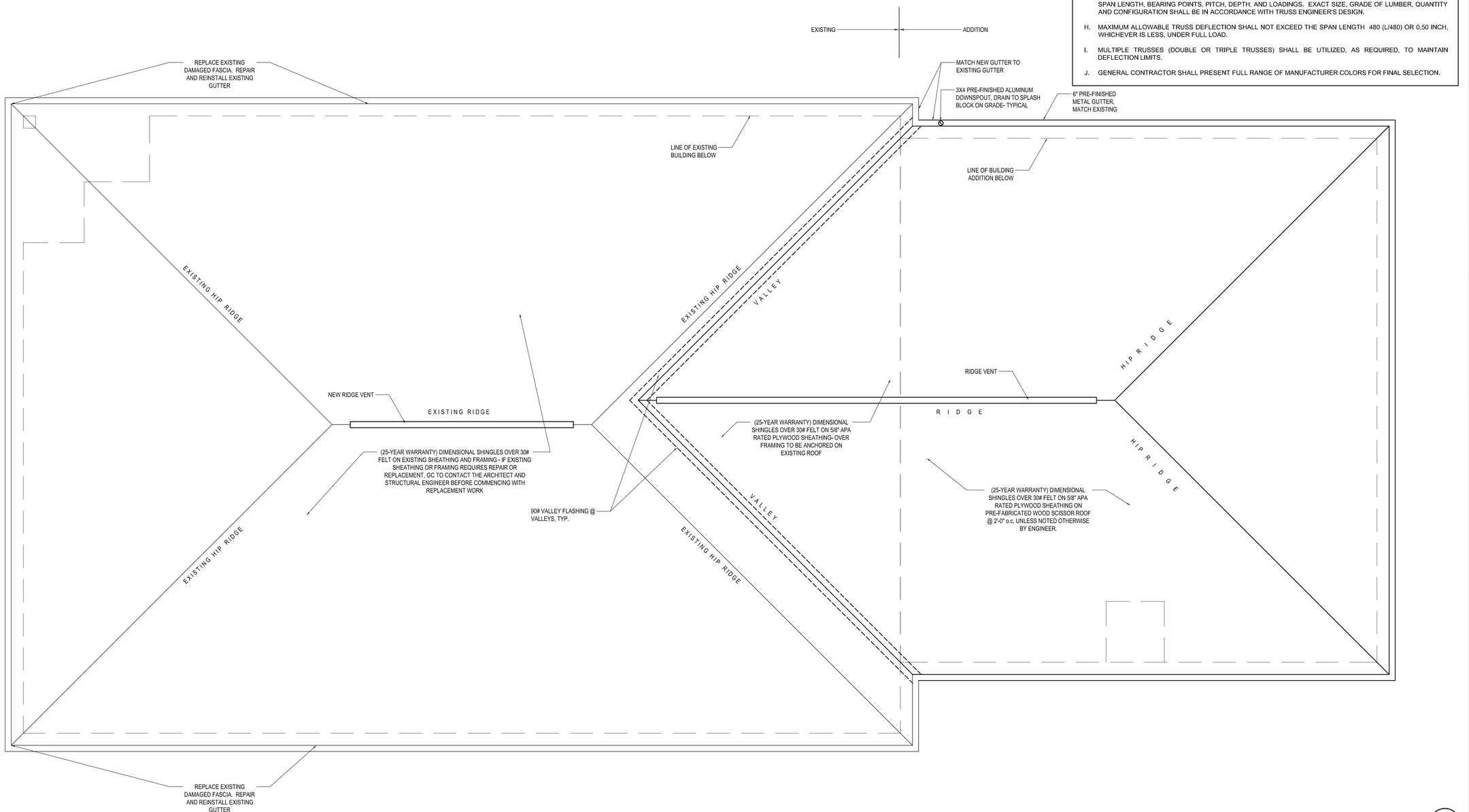
F. TRUSS MANUFACTURER IS RESPONSIBLE FOR FIELD-VERIFYING ALL DIMENSIONS AND FIELD CONDITIONS.

G. TRUSS ELEVATIONS AND SECTIONS ARE DIAGRAMMATIC AND ARE INTENDED TO INDICATE APPROXIMATE SPAN LENGTH, BEARING POINTS, PITCH, DEPTH, AND LOADINGS. EXACT SIZE, GRADE OF LUMBER, QUANTITY AND CONFIGURATION SHALL BE IN ACCORDANCE WITH TRUSS ENGINEER'S DESIGN.

H. MAXIMUM ALLOWABLE TRUSS DEFLECTION SHALL NOT EXCEED THE SPAN LENGTH 480 (L/480) OR 0.50 INCH, WHICHEVER IS LESS, UNDER FULL LOAD.

I. MULTIPLE TRUSSES (DOUBLE OR TRIPLE TRUSSES) SHALL BE UTILIZED, AS REQUIRED, TO MAINTAIN DEFLECTION LIMITS.

J. GENERAL CONTRACTOR SHALL PRESENT FULL RANGE OF MANUFACTURER COLORS FOR FINAL SELECTION.



01 New Head Start / Early Head Start for OVEC
SCHEMATIC ROOF PLAN

Scale: 1/4" = 1'-0"

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RENOVATION ROOF PLAN

Addition & Renovation
OVEC Head Start
7304 Dixie Highway
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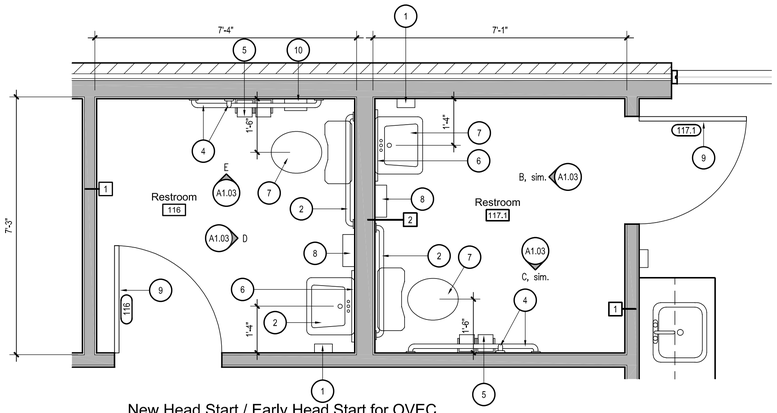
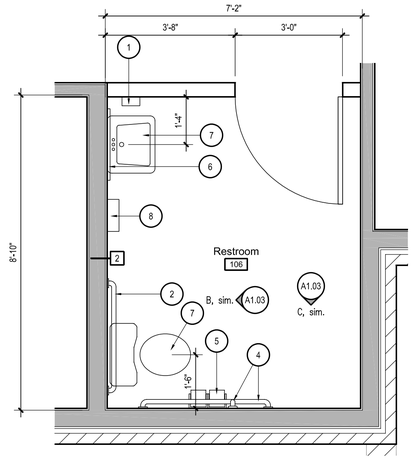
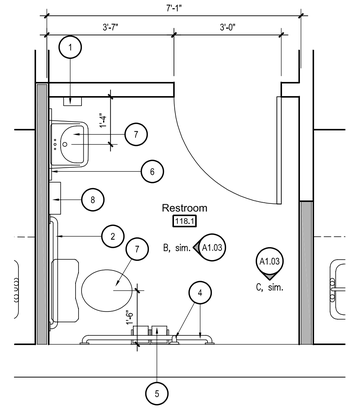


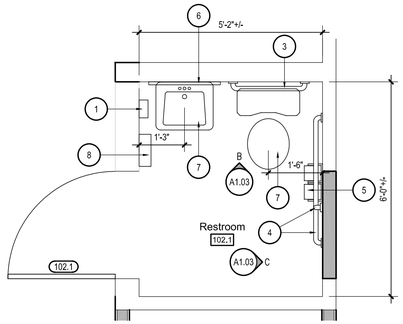
01 New Head Start / Early Head Start for OVEC
ENLARGED RESTROOM PLAN
Scale: 1/2" = 1'-0"



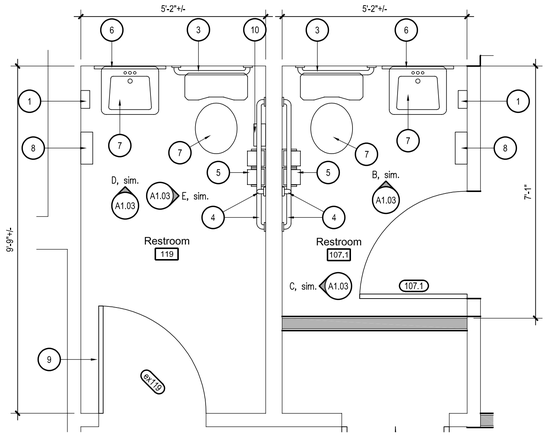
02 New Head Start / Early Head Start for OVEC
ENLARGED RESTROOM PLAN
Scale: 1/2" = 1'-0"



03 New Head Start / Early Head Start for OVEC
ENLARGED RESTROOM PLAN
Scale: 1/2" = 1'-0"



04 New Head Start / Early Head Start for OVEC
ENLARGED RESTROOM PLAN
Scale: 1/2" = 1'-0"



05 New Head Start / Early Head Start for OVEC
ENLARGED RESTROOM PLAN
Scale: 1/2" = 1'-0"

TOILET ACCESSORIES:

SEE ALSO DIVISION 10 SECTION "RESTROOM ACCESSORIES"

1. SOAP DISPENSER.
2. 1 1/2" dia. GRAB BAR - 36".
3. 1 1/2" dia. GRAB BAR - 24".
4. 1 1/2" dia. GRAB BAR - 42" w/ 18" VERTICAL LEG. SEE INTERIOR ELEVATIONS FOR LOCATIONS WHERE VERTICAL GRAB BAR NOT REQUIRED.
5. TOILET PAPER DISPENSER.
6. MIRROR - 24" x 36". SEE SPECIFICATIONS FOR DIFFERENT MODELS AND LOCATIONS.
7. NEW PLUMBING FIXTURE - REFER TO PLUMBING DRAWINGS FOR REQUIREMENTS.
8. PAPER TOWEL DISPENSER.
9. COAT HOOK.
10. SANITARY NAPKIN DISPOSAL.

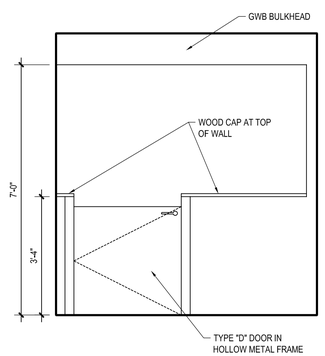
NOTE:

MOUNT ALL ACCESSORIES PER MANUFACTURER INSTRUCTIONS FOR ADA COMPLIANCE. COORDINATE EXACT LOCATION FOR ACCESSORIES IN CHILDREN'S TOILET ROOMS WITH OWNER.

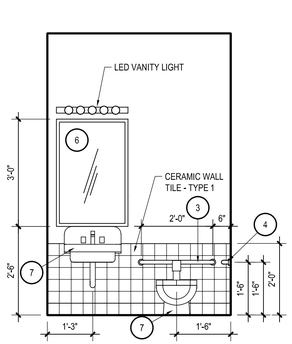
PROVIDE SOLID IN-WALL BLOCKING WHERE REQUIRED BY ACCESSORY MANUFACTURER.

NOT ALL ACCESSORIES SHOWN IN INTERIOR ELEVATIONS FOR SAKE OF CLARITY - REFERENCE THE ENLARGED FLOOR PLANS.

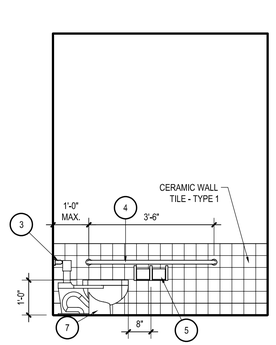
INTERIOR ELEVATIONS ARE "TYPICAL". SEE ENLARGED PLANS FOR DIFFERENCES THAT ARE DICTATED BY EXISTING ROOM SIZES, SUCH AS GRAB BAR LENGTH.



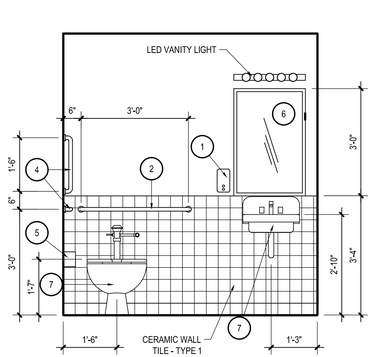
A KNEE WALL
Interior Elevation
Scale: 1/2" = 1'-0"



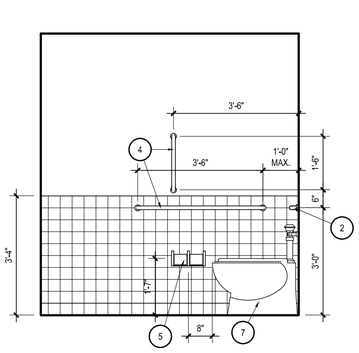
B CHILDREN'S TOILET
Interior Elevation
Scale: 1/2" = 1'-0"



C CHILDREN'S TOILET
Interior Elevation
Scale: 1/2" = 1'-0"



D STAFF TOILET
Interior Elevation
Scale: 1/2" = 1'-0"



E STAFF TOILET
Interior Elevation
Scale: 1/2" = 1'-0"

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ENLARGED RESTROOM PLANS

Addition & Renovation
OVEC Head Start
7304 Dixie Highway
Louisville, KY 40258

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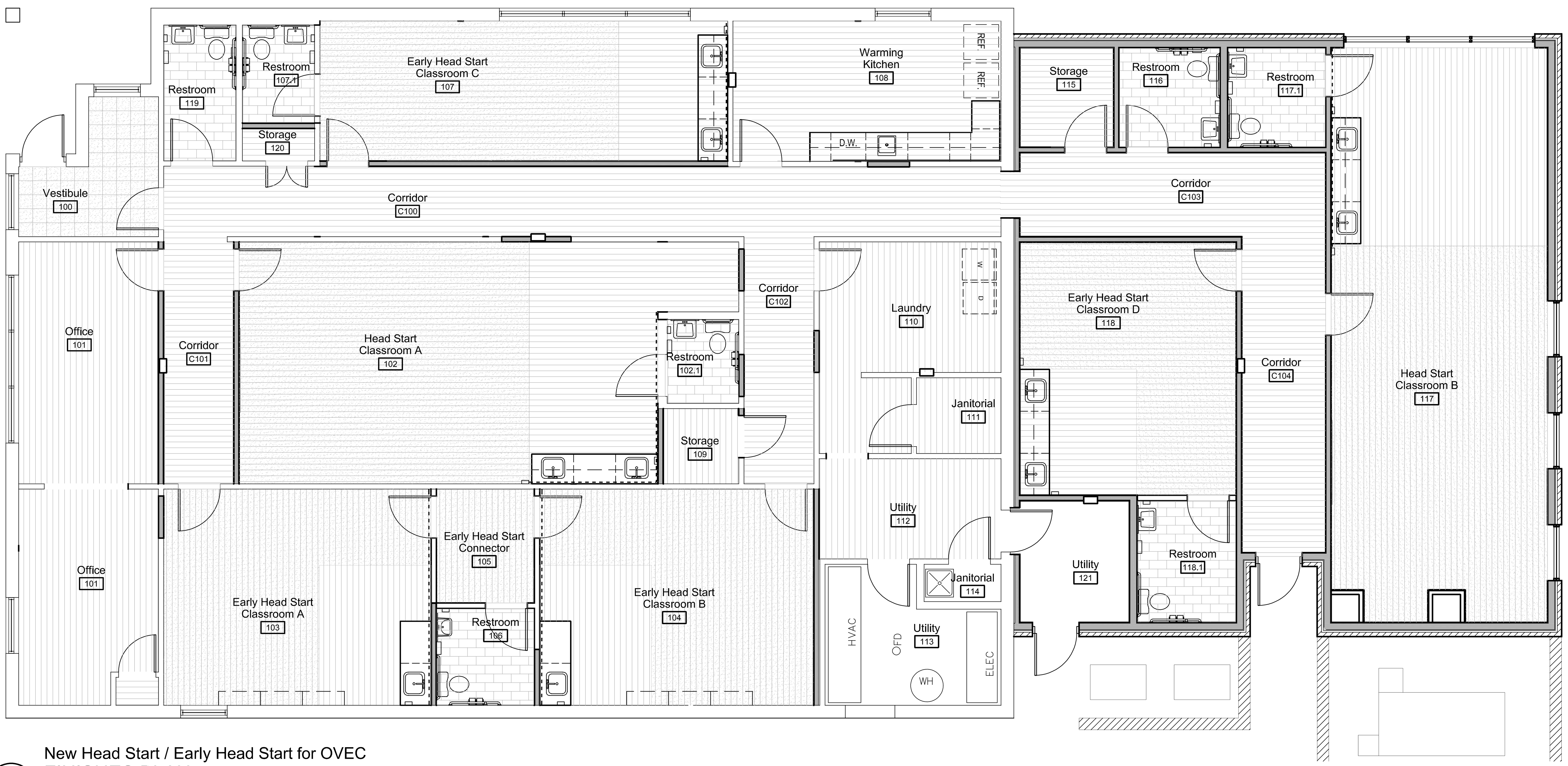

01 New Head Start / Early Head Start for OVEC

FINISHES PLAN

Scale: 3/16" = 1'-0"

FINISH LEGEND

FINAL FINISH SELECTIONS BY OWNER. REFER TO FINISH PLAN FOR MATERIAL LOCATION AND INTALL PATTERN

BASIS OF DESIGN:

LVT - LUXURY VINYL TILE "INTERFACE": BRUSHED LINES PLANK 25CM X 1M - 6 COLORS

CPT 1 - CARPET TILE MODULAR CARPET TILE "INTERFACE": HARMONIZE 25CM X 1M COLOR: PEWTER

CPT 2 - WALK OFF MAT

CT1 - PORCELAIN WALL TILE "ATLAS CONCORDE USA": EON 12"X24" COLOR: ELDORADO

CT2 - PORCELAIN FLOOR TILE "ATLAS CONCORDE USA": EON 12"X24" COLOR: ELDORADO

ACCENT PAINT LOCATOIN SHOWN ON FINISH PLAN WITH DASHED LINE

PT1 - FIELD COLOR PAINT SW 7003 TOQUE WHITE EGGSHELL FINISH

PT 2 - DOOR FRAME PAINT SW 9170 ACIER SATIN FINISH

PT 3 - ACCENT PAINT SW 9055 BILLOW BREEZE EGGSHELL FINISH

PT 4 - ACCENT PAINT SW 6218 TRADEWIND EGGSHELL FINISH

RUBBER WALL BASE - 4" RUBBER BASE "JOHNSONITE": 32 PEBBLE

LAMINATE CASE WORK - PLASTIC LAMINATE CASEWORK "FORMICA" CHERRY RIFTWOOD 6411-NG

LAMINATE COUNTERTOPS - PLASTIC LAMINATE COUNTERTOPS "FORMICA" WHITE DROPS 8824-58

DOOR FINISH - WOOD DOORS PLAIN SLICED RED OAK STAIN:HAZEL #375

ROOM FINISH SCHEDULE

Number	Name	Floor Finish	Wall Finish	Base Finish	Ceiling Finish	Comments
100	VESTIBULE	CPT 2	PT 4	RUBBER	ACT 1	
101	OFFICE	LVT	PT 4	RUBBER	ACT 1	
102	HEAD START "A"	LVT/CPT 1	PT 1/3	RUBBER	ACT 1	
103	EARLY HEAD START "A"	LVT/CPT 1	PT 1/3	RUBBER	ACT 1	
104	EARLY HEAD START "B"	LVT/CPT 1	PT 1/3	RUBBER	ACT 1	
105	CONNECTOR	CPT 1	PT 1	RUBBER	ACT 1	
106	RESTROOM	CT2	CT1/PT 1	CT	ACT 1	SEE ELEVATIONS
107	EARLY HEAD START "C"	LVT/CPT 1	PT 1/3	RUBBER	ACT 1	
107.1	RESTROOM	CT2	CT1/PT 1	CT	ACT 1	SEE ELEVATIONS
108	WARMING KITCHEN	LVT	PT 4	RUBBER	ACT 1	
109	STOR.	LVT	PT 1	RUBBER	PTD	
110	LAUNDRY	LVT	PT 1	RUBBER	PTD	
111	JANITORIAL	LVT	PT 1	RUBBER	PTD	
112	UTILITY	LVT	PT 1	RUBBER	PTD	
113	UTILITY	CONCRETE	PT 1	RUBBER	PTD	CLEAR SEAL FINISH
114	JANITORIAL	CONCRETE	PT 1	RUBBER	PTD	CLEAR SEAL FINISH
115	STOR.	LVT	PT 1	RUBBER	PTD	
116	RESTROOM	CT2	CT1/PT 1	CT	ACT 1	SEE ELEVATIONS
117	HEAD START "B"	LVT/CPT 1	PT 1/3	RUBBER	ACT 1	
117.1	RESTROOM	CT2	CT1/PT 1	CT	ACT 1	SEE ELEVATIONS
118	EARLY HEAD START "D"	LVT/CPT 1	PT 1/3	RUBBER	ACT 1	
118.1	RESTROOM	CT2	CT1/PT 1	CT	ACT 1	SEE ELEVATIONS
119	RESTROOM	CT2	CT1/PT 1	CT	ACT 1	SEE ELEVATIONS
120	STOR.	LVT	PT 1	RUBBER	PTD	
121	UTILITY	CONCRETE	PT 1	RUBBER	PTD	CLEAR SEAL FINISH
C100 C101 C102 C103 C104	CORRIDOR	LVT	PT 1	RUBBER	ACT 1	

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studio

SCOTT EDWARD KREMER REGISTERED ARCHITECT NO. 4634 COMMONWEALTH OF KENTUCKY

FINISH PLAN AND SCHEDULE

Addition & Renovation
OVEC Head Start
7304 Dixie Highway
Louisville, KY 40258

DATE: 03.17.2021
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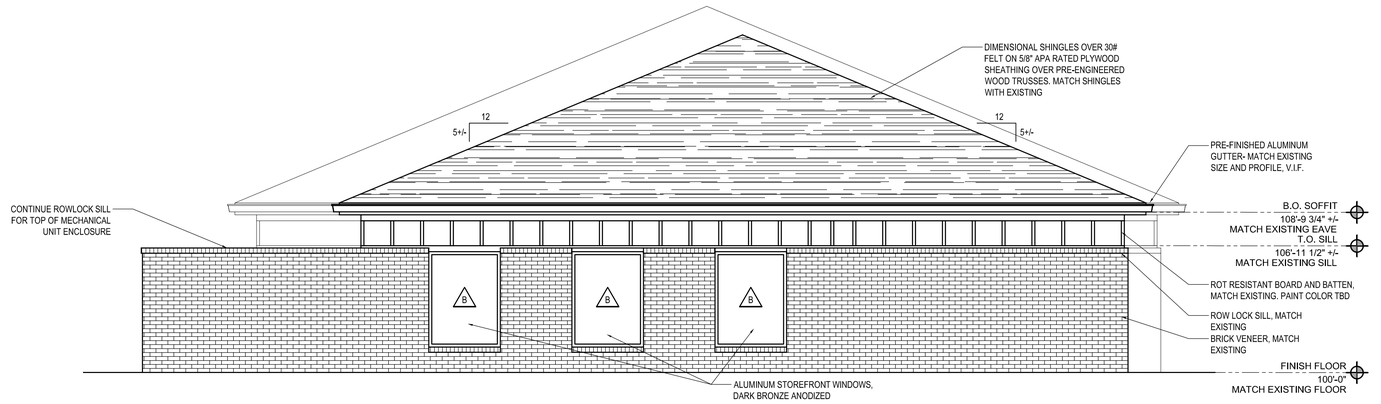
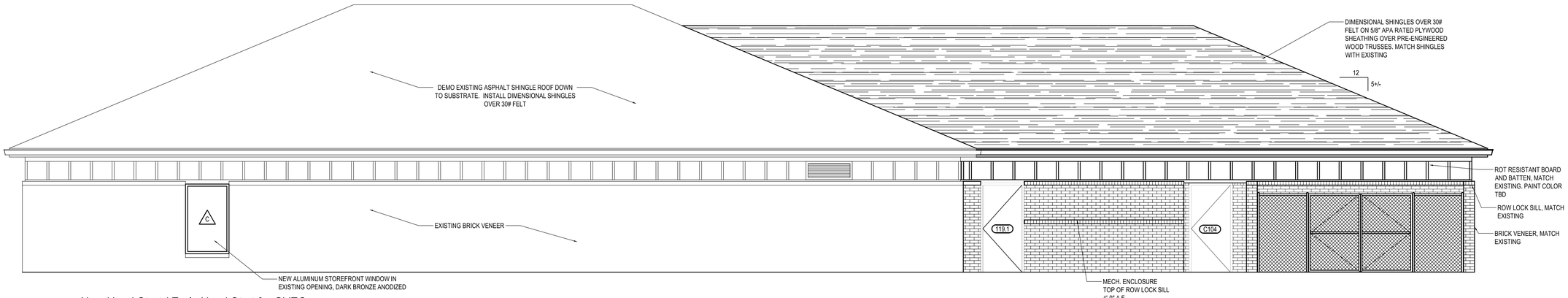


New Head Start / Early Head Start for OVEC

03 BUILDING ELEVATION: SOUTH

Scale: 1/4" = 1'-0"



New Head Start / Early Head Start for OVEC

02 BUILDING ELEVATION: WEST

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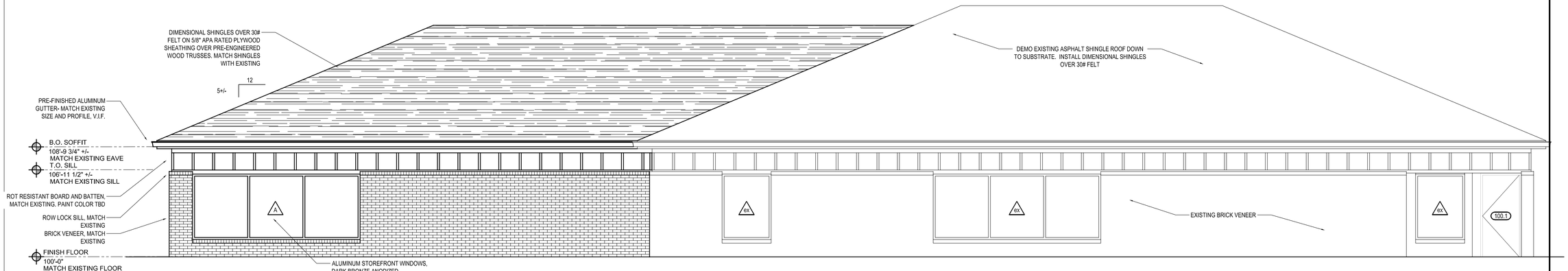

New Head Start / Early Head Start for OVEC

01 BUILDING ELEVATION: EAST

Scale: 1/4" = 1'-0"

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BUILDING ELEVATIONS

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DATE: 03.17.2021
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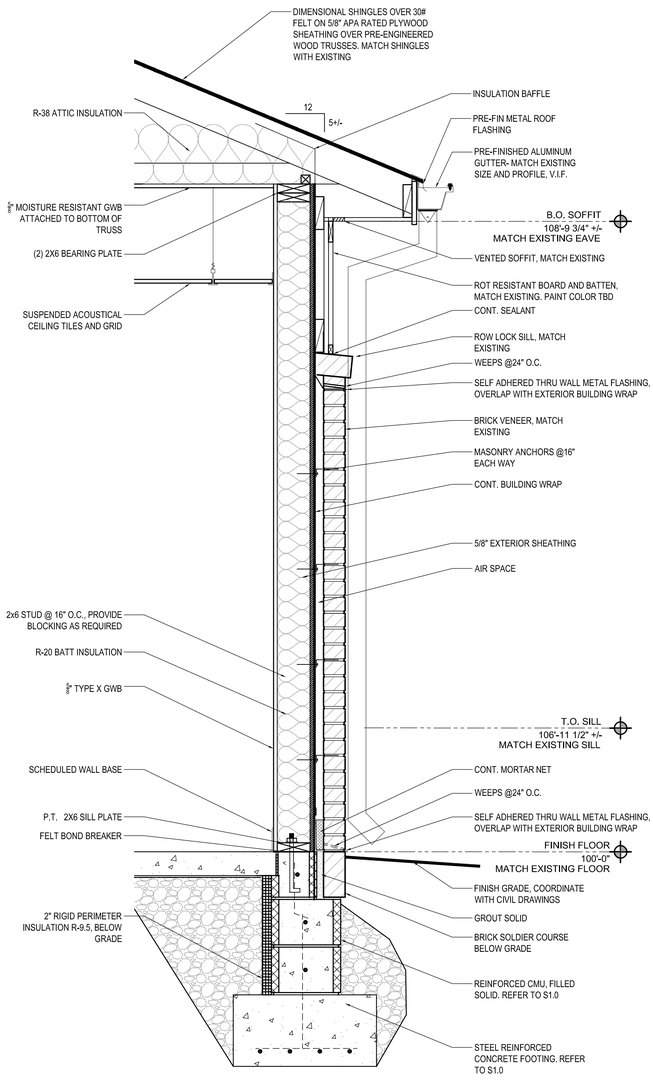
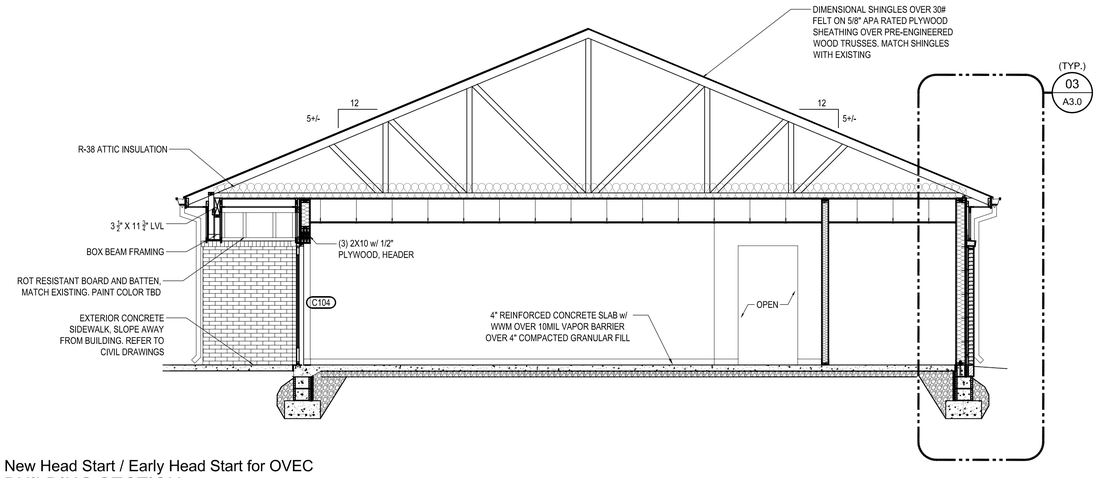


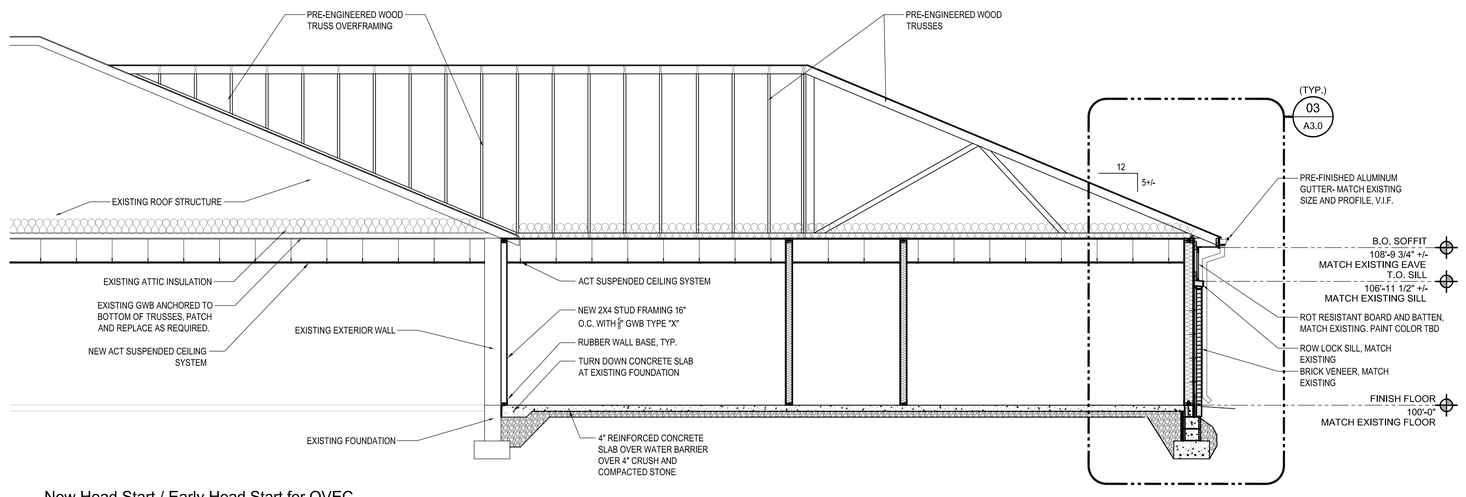
03 New Head Start / Early Head Start for OVEC
BUILDING SECTION

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



02 New Head Start / Early Head Start for OVEC
BUILDING SECTION

Scale: 1/4" = 1'-0"



01 New Head Start / Early Head Start for OVEC
BUILDING SECTION

Scale: 1/4" = 1'-0"

studio kremer architects
1231 S Shelby St. Louisville, KY 40203
TEL 502.499.1100 FAX 502.499.1101

BUILDING SECTIONS

Addition & Renovation
OVEC Head Start
7304 Dixie Highway
Louisville, KY 40258

DATE: 03.17.2021
DRAWN BY: JA / BM
CHECKED BY:
REVISIONS:

2019-52.06

A3.00

DOOR HARDWARE SETS

HARDWARE SET # 1
- *DOOR #100.1, C104*

2EA CYLINDER	AS REQUIRED x FINISH x MK	DOR
2 EA AUTO OPERATOR	120 VAC x HARDWIRED ACTUATORS	DOR
1 EA ELECTRIC STRIKE	FAIL SECURE 24V DC	
1 EA CYLINDER	AS REQ'D x FINISH x MK (KEYSWITCH)	DOR
1 EA KEYSWITCH	MAINTAINED 630	SDC
1 EA BALANCE OF DOOR HARDWARE BY DOOR SUPPLIER / 08410		*B/O*

OPERATIONAL DESCRIPTION:
DOOR NORMALLY CLOSES AND EXIT DEVICES ARE IN THE DOGGED POSITION. AUTO OPERATOR BY HARDWIRED ACTUATORS. AFTER HOURS OPERATION, DOORS ARE CLOSED AND LOCKED. KEYSWITCH DEACTIVATES ACTUATORS. FREE EGRESS AT ALL TIMES. ELECTRIC STRIKE AND POWER TO BE INTEGRATED w/ OWNER'S ACCESS CONTROLS CONTRACTOR.

HARDWARE SET #2
- *DOORS #100.2*

3 EA HINGES	
1 EA PUSH PLATE	ENGRAVED "PUSH"
1 EA PULL PLATE	ENGRAVED "PULL"
1 EA RA CLOSER	
1 EA WALL STOP	

HARDWARE SET #3
- *DOORS #116, 119*

3 EA HINGES
1 EA PRIVACY LOCKSET
1 EA WALL STOP
1 EA CLOSER

HARDWARE SET #4
- *DOORS #102.1, 117.1*

3 EA HINGES
1 EA PASSAGE SET
1 EA FLOOR STOP

HARDWARE SET #5
- *DOORS #105.1, 105.2, 106, 107.1, 118.1*

2 EA HINGES
1 EA PASSAGE SET
1 EA WALL STOP

HARDWARE SET #6
- *DOORS #120*

6 EA HINGES
2 EA CLOSET ROLLER LATCH
2 EA WALL STOP

HARDWARE SET # 7
- *DOORS #102, 103, 104, 107, 108, 117, 118*

3 EA HINGES
1 EA CYLINDER
1 EA CLASSROOM LOCKSET
1 EA RA CLOSER
1 EA KICKPLATE (2" LESS WIDTH)
1 EA WALL STOP

HARDWARE SET #8
- *DOORS #101*

3 EA HINGES
1 EA OFFICE LOCKSET
1 EA RA CLOSER
1 EA WALL STOP

HARDWARE SET #9
- *DOORS #101.1*

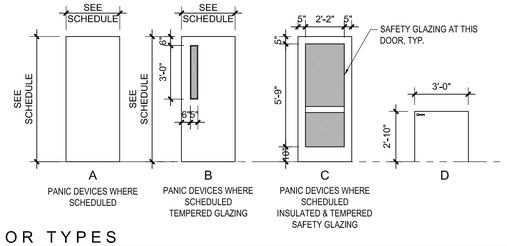
3 EA HINGES
1 EA STOREROOM LOCKSET
1 EA WALL STOP

HARDWARE SET #10
- *DOORS #109, 110, 111, 113, 114, 115, 121.2*

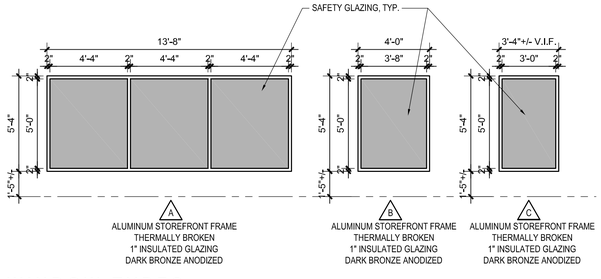
3 EA HINGES
1 EA STOREROOM LOCKSET
1 EA RA CLOSER
1 EA WALL STOP

HARDWARE SET #11
- *DOOR #121.1*

3 EA HINGES
1 EA CLOSER
1 EA CYLINDER
1 EA WEATHERSTRIP
1 EA THRESHOLD
1 EA SWEEP
1 EA DRIP CAP



A5.00 **DOOR TYPES**
Scale: 1/4"=1'-0"



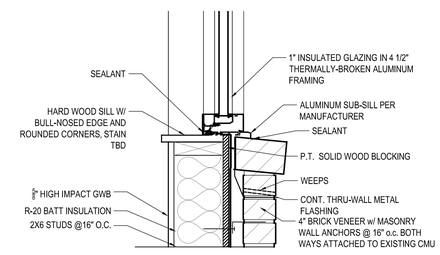
A5.00 **WINDOW TYPES**
Scale: 1/4"=1'-0"

DOOR AND FRAME SCHEDULE

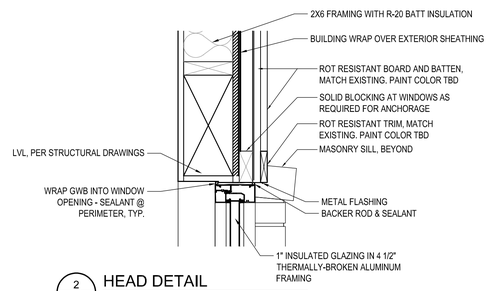
Door No.	Room Name	Door / View Panel Size W	H	T	MAT'L.	FIN.	TYPE	Frame Size MAT'L.	FIN.	TYPE	HDWR SET	Remarks
100.1	Vestibule	3'-0"	7'-0"	1 3/4"	ALUM	ANOD	C	ALUM	ANOD	3	1	NOTE 1, 4
100.2	Vestibule	3'-0"	7'-0"	1 3/4"	SCWD	STAIN	B	ALUM	ANOD	3	2	NOTE 1, 4
101	OFFICE	3'-0"	7'-0"	1 3/4"	SCWD	STAIN	B	HM	PNT	1	8	NOTE 1, 3
101.1	CLOSET	2'-8"	7'-0"	1 3/4"	SCWD	STAIN	A	HM	PNT	1	9	NOTE 1
102	HEAD START "A"	3'-0"	7'-0"	1 3/4"	SCWD	STAIN	B	HM	PNT	1	7	NOTE 3
102.1	RESTROOM	3'-0"	7'-0"	1 3/4"	SCWD	STAIN	A	HM	PNT	1	4	NOTE 2
103	EARLY HEAD START "A"	3'-0"	7'-0"	1 3/4"	SCWD	STAIN	B	HM	PNT	1	7	NOTE 3
104	EARLY HEAD START "B"	3'-0"	7'-0"	1 3/4"	SCWD	STAIN	B	HM	PNT	1	7	NOTE 3
105.1	CONNECTOR	3'-0"	7'-0"	1 3/4"	SCWD	STAIN	B	HM	PNT	1	5	--
105.2	CONNECTOR	3'-0"	7'-0"	1 3/4"	SCWD	STAIN	B	HM	PNT	1	5	--
106	RESTROOM	3'-0"	3'-0"	1 3/4"	SCWD	STAIN	D	HM	PNT	1	5	NOTE 2
107	EARLY HEAD START "C"	3'-0"	7'-0"	1 3/4"	SCWD	STAIN	B	HM	PNT	1	7	NOTE 3
107.1	RESTROOM	3'-0"	3'-0"	1 3/4"	SCWD	STAIN	D	HM	PNT	1	5	NOTE 2
108	WARMING KITCHEN	3'-0"	7'-0"	1 3/4"	SCWD	STAIN	A	HM	PNT	1	7	NOTE 1, 3
109	STORAGE	3'-0"	7'-0"	1 3/4"	SCWD	STAIN	A	HM	PNT	1	10	NOTE 3
110	LAUNDRY	3'-0"	7'-0"	1 3/4"	SCWD	STAIN	A	HM	PNT	1	10	NOTE 3
111	JANITORIAL	3'-0"	7'-0"	1 3/4"	HM	PNT	A	HM	PNT	1	10	NOTE 1
113	UTILITY	3'-0"	7'-0"	1 3/4"	HM	PNT	A	HM	PNT	1	10	NOTE 1
114	JANITORIAL	3'-0"	7'-0"	1 3/4"	HM	PNT	A	HM	PNT	1	10	NOTE 1
115	STORAGE	3'-0"	7'-0"	1 3/4"	SCWD	STAIN	A	HM	PNT	1	10	NOTE 3
116	RESTROOM	3'-0"	7'-0"	1 3/4"	SCWD	STAIN	A	HM	PNT	1	3	NOTE 3
117	HEAD START "B"	3'-0"	7'-0"	1 3/4"	SCWD	STAIN	B	HM	PNT	1	7	NOTE 3
117.1	RESTROOM	3'-0"	7'-0"	1 3/4"	SCWD	STAIN	A	HM	PNT	1	4	NOTE 2
118	EARLY HEAD START "D"	3'-0"	7'-0"	1 3/4"	SCWD	STAIN	B	HM	PNT	1	7	NOTE 3
118.1	RESTROOM	3'-0"	3'-0"	1 3/4"	SCWD	STAIN	D	HM	PNT	1	5	NOTE 2
119	RESTROOM	3'-0"	7'-0"	1 3/4"	SCWD	STAIN	A	HM	PNT	1	3	NOTE 1, 3
120	STORAGE	2(1'-6")	7'-0"	1 3/4"	SCWD	STAIN	A	HM	PNT	1	6	--
121.1	UTILTY	3'-0"	7'-0"	1 3/4"	HM	PNT	A	HM	PNT	2	11	NOTE 1; INSULATED HOLLOW METAL DOOR
121.2	UTILTY	3'-0"	7'-0"	1 3/4"	HM	PNT	A	HM	PNT	2	10	INSULATED HOLLOW METAL DOOR
C104	CORRIDOR	3'-0"	7'-0"	1 3/4"	ALUM	ANOD	C	ALUM	ANOD	3	1	NOTE 4

DOOR NOTES:
1. NEW DOOR AND FRAME TO BE PROVIDED. IF EXISTING FRAME CAN BE RE-USED, COORDINATE w/ HARDWARE SCHEDULE AND PROVIDE CREDIT FOR COST OF FRAME.
2. FOR RESTROOM DOORS THAT DIRECTLY SERVE CLASSROOMS, DOORS SHALL NOT HAVE LOCKING CAPABILITY FROM INSIDE THE RESTROOM.
3. 45-MINUTE FIRE RATED DOOR AND FRAME REQUIRED IN 1-HR FIRE RATED FIRE BARRIER (CORRIDOR WALLS).
4. FRAME AND DOOR TO BE COORDINATED w/ OWNER'S ACCESS CONTROLS CONTRACTOR.

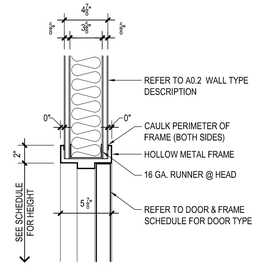
- ALL DOORS TO HAVE LEVER-TYPE DOOR HANDLES TO MEET ADA REQUIREMENTS. COORDINATE HANDLE w/ LOCKSET LISTED IN HARDWARE SCHEDULE.



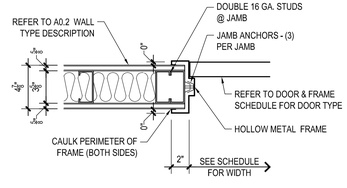
1 A5.0 **SILL DETAIL**
Scale: 1 1/2"=1'-0"



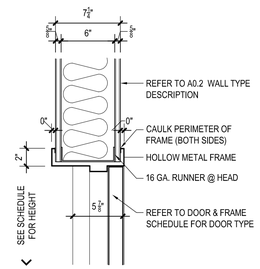
2 A5.0 **HEAD DETAIL**
Scale: 1 1/2"=1'-0"



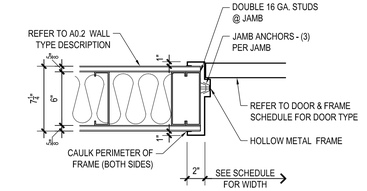
3 A5.00 **HEAD DETAIL**
Scale: 1 1/2" = 1'-0"



4 A5.00 **JAMB DETAIL**
Scale: 1 1/2" = 1'-0"



5 A5.00 **HEAD DETAIL**
Scale: 1 1/2" = 1'-0"



6 A5.00 **JAMB DETAIL**
Scale: 1 1/2" = 1'-0"

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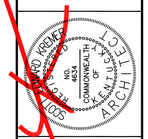

DOOR & WINDOW DETAILS/ SCHEDULE

Addition & Renovation
OVEC Head Start
7304 Dixie Highway
Louisville, KY 40258

DATE: 03.17.2021
DRAWN BY: JA / BM
CHECKED BY:
REVISIONS:

2019-52.06

A5.00

GENERAL NOTES- ELECTRICAL:

A. CONTRACTOR SHALL FOLLOW SEISMIC RESTRAINT AND DESIGN REQUIREMENTS CONTAINED IN LATEST ADOPTED STATE AND INTERNATIONAL BUILDING CODES, WITH ALL AMENDMENTS AS ADOPTED BY THE CURRENT LEGISLATION.

B. THE TERM "PROVIDE" SHALL MEAN CONTRACTOR SHALL FURNISH AND INSTALL ITEMS AND CONNECT AS REQUIRED TO OBTAIN A COMPLETE WORKING SYSTEM.

C. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ALL LOCAL, STATE, AND NATIONAL CODES. INCLUDING BUT NOT LIMITED TO NFPA 70 (NATIONAL ELECTRIC CODE), NFPA 72, INTERNATIONAL BUILDING CODE, ETC.

D. ALL WORK SHALL BE COORDINATE WITH EXISTING CONDITIONS, NEW CONSTRUCTION, OWNER'S VENDORS, ALL TRADES, AND THEIR DOCUMENTS. THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING HIS BID. CONTRACTOR SHALL CONTACT OWNER FOR AN APPOINTMENT TO VISIT THE SITE. NO ALLOWANCE WILL BE MADE FOR EXISTING CONDITIONS NOT KNOWN BY THE CONTRACTOR.

E. NO MORE THAN THREE CIRCUITS (4-SINGLE CONDUCTOR CABLES PLUS GROUND) SHALL BE PULLED IN SINGLE CONDUIT, (EXCEPTION: SEPARATE NEUTRALS FOR GROUND FAULT CIRCUITS). WIRE (EXCEPT GROUND) MUST BE OF SAME SIZE AND MUST BE ON OPPOSITE PHASES IF USING COMMON NEUTRAL. ALL PANELBOARDS AND WIRING SHALL MEET NEC 210.4 MULTIWIRE BRANCH CIRCUITS. IT IS AT THE CONTRACTOR'S DISCRETION TO EITHER PROVIDE DEDICATED NEUTRALS OR MULTI-POLE BREAKERS.

F. WHEN RUNNING MORE THAN 3 CURRENT CARRYING CONDUCTORS IN A SINGLE CONDUIT, DERATE AMPACITIES IN ACCORDANCE WITH NFPA 70.

G. A CODE SIZE INSULATED GROUND CONDUCTOR SHALL BE PROVIDED IN ALL FEEDER AND BRANCH CIRCUIT CONDUITS. THIS INCLUDES EXISTING DEVICES LOCATED WITHIN THE RENOVATED AREA THAT ARE TO REMAIN, REPLACE DEVICES AS REQUIRED.

H. ALL THHN/THWN/THHW/THW/XHHW CONDUCTORS ARE SIZED BASED ON 75°C TEMPERATURE RATING. ALL TERMINATIONS FOR ALL EQUIPMENT AND DEVICES SHALL BE LISTED AND IDENTIFIED FOR USE WITH 75°C CONDUCTORS. IF CONTRACTOR PROVIDES TERMINATIONS OF LESS THAN 75°C, THE ASSOCIATED CONDUCTOR SIZES SHALL BE INCREASED DUE TO THE DERATING AMPACITY PER NEC TABLE 310-15(B)(16). CONTRACTOR SHALL MAKE ALL CHANGES (I.E. CONDUIT SIZES, ETC.) AS NECESSARY AND SHALL MAKE ALL REVISIONS ON "AS-BUILT" DRAWINGS.

I. MINIMUM CONDUIT SIZE IS 3/4 INCH, MINIMUM WIRE SIZE IS #12 AWG (COPPER CONDUCTOR THHN/THWN), UNLESS OTHERWISE NOTED ON PLANS OR IN CIRCUIT REVIEWS.

J. ALL CONDUIT SHALL BE RUN CONCEALED WHEREVER POSSIBLE ABOVE CEILINGS, INSIDE WALLS, OR UNDER FLOOR SLAB (ONLY WHERE SHOWN DASHED ON PLAN), UNLESS OTHERWISE NOTED ON PLAN. IN HIGH-BAY (NO CEILING) AREAS, RUN EXPOSED CONDUIT HIGH AS POSSIBLE. ALL CONDUIT SHALL BE RUN PARALLEL OR PERPENDICULAR TO NEARBY SURFACE OR STRUCTURAL MEMBERS AND FOLLOW THE SURFACE CONTOURS AS MUCH AS PRACTICAL. NO CONDUIT SHALL BE INSTALLED IN FLOOR SLAB UNLESS SPECIFICALLY NOTED OTHERWISE.

K. CONTRACTOR SHALL PROVIDE RIGID METAL SLEEVES TO FACILITATE PATHWAY (I.E. THRU BLOCK WALLS) FOR ELECTRICAL AND TELECOMMUNICATION DEVICES.

L. PROVIDE ALL NECESSARY TEMPORARY OR PERMANENT CAPS OR PLUGS FOR CONDUITS. DO NOT LEAVE PIPING/ CONDUITS OPEN ENDED. PROVIDE END BUSHINGS FOR ALL STUB-OUTS AND SLEEVES DESIGNATED TO BE UTILIZED FOR THIS PROJECT. COORDINATE WITH OWNER'S REPRESENTATIVE FOR SYSTEMS NOT PROVIDED UNDER THIS CONTRACT.

M. PROVIDE FIRE STOP TO ALL CONDUITS AND DEVICES PENETRATING FIRE RATED WALLS, SMOKE WALLS AND FLOORS.

N. MOUNTING HEIGHTS ABOVE FINISHED FLOOR (AFF) ARE TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.

O. DEVICES/OUTLETS SHALL BE COORDINATED WITH ASSOCIATED ARCHITECTURAL DRAWINGS (I.E. FLOOR PLANS, CASEWORK DETAILS/ELEVATIONS, ETC.) FOR EXACT LOCATIONS AND MOUNTING, PRIOR TO ROUGH-IN. IF EXACT LOCATIONS AND MOUNTING ARE NOT INDICATED ON ARCHITECTURAL DRAWINGS, FIELD VERIFY EXACT LOCATIONS AND MOUNTING WITH OWNER AND ALL TRADES.

P. DEVICES SHALL NOT BE INSTALLED BACK TO BACK ON A COMMON WALL WHERE CONDITION EXISTS FOR ADJACENT OFFICE ROOMS OR ROOMS WHERE SOUND TRANSMISSION IS NOT PERMITTED. OR PROVIDE SOUND INSULATION.

Q. RECEPTACLES SHALL BE CIRCUITED WITH A SEPARATE GROUND WIRE. RECEPTACLES PROTECTED BY A GROUND FAULT CIRCUIT INTERRUPTER CIRCUIT BREAKER SHALL HAVE A DEDICATED NEUTRAL WIRE PULLED FOR THAT CIRCUIT. RECEPTACLES PROTECTED BY A GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE SHALL BE WIRED PER MANUFACTURERS RECOMMENDATIONS.

R. RECEPTACLES ARE TO BE INSTALLED WITH THE GROUND PIN IN THE TOP POSITION.

S. FOR EACH RECEPTACLE SUPPLIED FROM A GROUND FAULT CIRCUIT INTERRUPTER BREAKER IN PANELBOARD, PROVIDE A COVER PLATE WITH THE FOLLOWING PERMANENTLY ETCHED OR ENGRAVED MARKING: "G.F.C.I. PROTECTED".

T. ELECTRICAL DRAWINGS SHALL BE COORDINATED WITH EXISTING CONDITIONS, ASSOCIATED MECHANICAL DRAWINGS AND MECHANICAL CONTRACTOR FOR MOTORS, DEVICES, FIXTURES, ETC. FOR EXACT LOCATIONS BEFORE ROUGH-IN OF CONDUIT SYSTEM

U. LIGHTING FIXTURES SHALL BE WIRED TO SWITCHES GENERALLY SHOWN IN EACH ROOM AND CONNECTED TO LIGHTING PANELS WITH THE REQUIRED QUANTITY OF WIRES FOR PROPER OPERATION. A CONTINUOUS GROUND MUST BE PROVIDED THROUGH CONDUIT SYSTEM. EXIT LIGHTS, INVERTORS, AND NIGHT LIGHTS SHALL BE CONNECTED AHEAD OF LOCAL SWITCHING ON SAME CIRCUIT.

V. SEE/VERIFY ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF CEILING MOUNTED DEVICES, i.e. LIGHT FIXTURES, SPEAKERS, FIRE ALARM DEVICES, ETC.

W. FROM EACH TELEPHONE/DATA, CRT, TV, PAGING, ETC. COMMUNICATION TYPE OUTLET, PROVIDE A (MIN.) 1 INCH CONDUIT (WITH PULL WIRE) STUBBED TO ACCESSIBLE CEILING WITH INSULATED BUSHING, UNLESS OTHERWISE NOTED.

X. WHEN ROUTED THROUGH AN AIR RETURN PLENUMS, ALL TELEPHONE/DATA, CRT, TV, PAGING, ETC. COMMUNICATION CABLING SHALL BE ROUTED IN A COMPLETE CONDUIT RACEWAY SYSTEM OR SHALL BE PLENUM RATED. (NO PVC CONDUIT SHALL BE INSTALLED). COORDINATE ALL CONDUIT RUNS WITH ALL TRADES AND THEIR VENDORS. SEE MECHANICAL FOR LOCATION OF ANY AIR RETURN PLENUMS.

Y. TURN OVER TO THE OWNER ALL MANUFACTURERS WARRANTIES FOR EQUIPMENT AND MATERIALS PROVIDED.

Z. PROVIDE NEW UPDATED TYPED PANEL LEDGER/CIRCUIT DIRECTORY FOR EACH NEW AND ALTERED PANELBOARD.

AA. ALL NEW ELECTRICAL JUNCTION BOXES ABOVE CEILING IN AREAS RELATED TO CONSTRUCTION ARE TO BE IDENTIFIED AND LABELED WITH A PERMANENT MARKER. FIRE ALARM JUNCTION BOXES ARE TO BE PAINTED RED.

AB. NO MC CABLE SHALL BE PERMITTED ON PROJECT UNLESS SPECIFICALLY NOTED. WHEN MC CABLE IS ALLOWED, IT SHALL ONLY BE USED FOR POWER CONNECTIONS FOR INTERIOR BRANCH CIRCUITS DOWN INTO WALLS FOR RECEPTACLES AND TO LIGHT FIXTURES. NOTE HARD CONDUIT SHALL STILL BE PROVIDED FROM PANELBOARDS TO CORRIDOR/ACCESSIBLE CEILING LOCATIONS – MC CABLE SHALL BE ROUTED ONLY TO DEVICES/FIXTURES AND IN INTERNAL WALLS/CEILINGS FROM THIS POINT. PROVIDE DEDUCT ALTERNATE FOR INCLUSION OF MC CABLE (HOSPITAL GRADE IN ALL AREAS PER NEC 517).

AC. CONTRACTOR SHALL REMOVE EXISTING ELECTRICAL DEVICES, FIXTURES, ETC. IN AREA OF CONSTRUCTION TO ACCOMMODATE NEW DESIGN, AND COORDINATE WITH GENERAL CONTRACTOR.

SYSTEMS COORDINATION

SYSTEM TYPE	BACK BOX AND CONDUIT	DEVICES AND CABLING	EQUIPMENT	INSTALLATION	POWER	VENDOR	DESIGN	SPECIFICATIONS
FIRE ALARM	IN CONTRACT	IN CONTRACT	IN CONTRACT	IN CONTRACT	IN CONTRACT	PER CD	PER CD	PER CD
VOICE/DATA/INTERNET	IN CONTRACT	BY OWNER	OWNER'S VENDOR	OWNER'S VENDOR	IN CONTRACT	OWNER'S VENDOR	OWNER'S VENDOR	OWNER'S VENDOR
CABLE TV	IN CONTRACT	IN CONTRACT	IN CONTRACT	IN CONTRACT	IN CONTRACT	OWNER'S VENDOR	PER CD	PER CD

REMARKS: COORDINATE ALL SYSTEMS WORK WITH OWNER'S VENDORS FOR ALL, INCLUDING BUT NOT LIMITED TO: DEVICE LOCATIONS, DEVICE REQUIREMENTS, EQUIPMENT LOCATIONS, EQUIPMENT REQUIREMENTS, POWER LOCATIONS, POWER REQUIREMENTS, AND QUANITITIES REQUIRED. PROVIDE ALL LABOR AND MATERIALS FOR A COMPLETE AND OPERABLE SYSTEM.

LUMINAIRE SCHEDULE

NOTE... (WHERE APPICABLE; ALL NOTES APPLY TO ALL LUMINAIRE TYPES)

1. FIXTURE SUBSTITUTIONS SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL 10 DAYS PRIOR TO BID DATE, NO EXCEPTIONS.
2. FINAL SELECTION OF FINISH MATERIAL, ETC. BY ARCHITECT.
3. ALL LED DRIVERS ARE "CONSTANT CURRENT".
4.

TYPE	DESCRIPTION	MOUNTING	LAMP TYPE	DRIVER TYPE	VOLTAGE	INPUT POWER	MANUFACTURER	CATALOG NUMBER	ALTERNATE MANUFACTURERS AND MODEL NUMBERS	REMARKS
D2	6" APERATURE DOWNLIGHT WITH CLEAR SPECULAR REFLECTOR, GALVANIZED STEEL MOUNTING FRAME	RECESSED CEILING	LED	CONSTANT CURRENT	120 V	35 VA	LITHONIA	LDN6 40 20 LO6 AR LD	PER REVIEW BY ENGINEER	
EM	EMERGENCY LIGHTING UNIT	WALL	LED	NICKEL CADMIUM	120 V	3.6 VA	Acuity Brands Lighting	ELM2-LED-SD	PER REVIEW BY ENGINEER	MOUNT AT 7'-8"AFF TO CENTER, UNO. CONNECT COMPLETE AHEAD OF ANY SWITCHING. CIRCUIT WITH SAME AREA.
OL1	EXTERIOR WALL BRACKET WITH DIE-CAST ALUMINUM HOUSING, 3000 LM, 4000K, FORWARD THROW OPTICS, DARK BRONZE, WITH SURFACE MOUNTED BACK BOX AND EMERGENCY BATTERY BACK UP	EXTERIOR WALL	LED	CONSTANT CURRENT	120 V	25 VA	Acuity Brands Lighting	WST LED P2 40K VF MVOLT E20WH BBW DDBXD	PER REVIEW BY ENGINEER	
T2	2X2 SWITCHABLE LUMEN DIMMABLE LED FLAT PANEL, SIWTCH SET TO 2400 LUMENS, 4000K,>80CRI (DGA22) DRYWALL GRID ADAPTER FOR 2X2 LUMINAIRES RECESSED IN DRYWALL CEILINGS WHERE REQUIRED	RECESSED CEILING	LED	CONSTANT CURRENT	120 V	18.9 VA	Acuity Brands Lighting	CPANL 2x2 24/33/44LM 40K - M4-SET SWITCH TO 24LM (2400 LUMENS) - WITH DGA22, WHERE REQUIRED	PER REVIEW BY ENGINEER	
T2S	2X2 SWITCHABLE LUMEN, DIMMABLE LED SURFACE MOUNTED FLAT PANEL, SWITCH SET TO 2400 LUMENS, 4000K, >80CRI (WITH MULTI - USE SURFACE MOUNT KIT 2X2, SHALLOW DEPTH	SURFACE CEILING	LED	CONSTANT CURRENT	120 V	18.9 VA	Acuity Brands Lighting	CPANL 2x2 24/33/44LM 40K - M4 - SET SWITCH TO 24LM (2400 LUMENS) - WITH 2X2 SMKSH KIT	PER REVIEW BY ENGINEER	
V2	LED VANITY LIGHT ABOVE MIRROR, WITH (5) 4.5 WATT LED G25 BULBS, 2700K - MOUNT CENTER OF FIXTURE 4" ABOVE TOP OF MIRROR (VIF TOP OF EACH MIRROR HIEGHT)	WALL ABOVE MIRROR	LED	CONSTANT CURRENT	120 V	24 VA	Acuity Brands Lighting	$100.00 ALLOWANCE	PER REVIEW BY ENGINEER	ALLOWANCE ONLY INCLUDES LUMINAIRE AN BULBS. ALLOWANCE DOES NOT INCLUDE SHIPPING, STORAGE, ANY ADDTIONAL CHARGES, LABOR OR MATERIALS FOR INSTALLATON.
X	SINGLE FACED BACK MOUNTED EXIT LIGHT, THERMOPLASTIC HOUSING IS IMPACT-RESISTANT, SCRATCH-RESISTANT AND CORROSION-PROOF, UV-STABLE WHITE RESIN RESISTS DISCOLORATION FROM NATURAL AND MAN-MADE LIGHT SOURCES, LED, RED LETTERING, UNIVERSAL MOUNT, SELF DIAGN	WALL BACK MOUNTED	LED	NICKEL CADMIUM	120 V	3.3 VA	Acuity Brands Lighting	LHQMSW3R-120/277-N	PER REVIEW BY ENGINEER	ARROWS PER PLANS
X1	SINGLE FACED CEILING MOUNTED EXIT LIGHT, THERMOPLASTIC HOUSING. LED: RED LETTERING, UNIVERSAL MOUNT, SELF DIAGNOSTIC NI-CAD BATTERY.	CEILING MOUNTED	LED	NICKEL CADMIUM	120 V	2 VA	Acuity Brands Lighting	LQMS W 3 R 120/277 ELN	PER REVIEW BY ENGINEER	ARROWS PER PLANS.
X2	DOUBLE FACED CEILING MOUNTED EXIT LIGHT, THERMOPLASTIC HOUSING. LED: RED LETTERING, UNIVERSAL MOUNT, SELF DIAGNOSTIC NI-CAD BATTERY.	CEILING MOUNTED	LED	NICKEL CADMIUM	120 V	2 VA	Acuity Brands Lighting	LQMS W 3 R 120/277 ELN	PER REVIEW BY ENGINEER	ARROWS PER PLANS.
XE	SINGLE FACED BACK MOUNTED EXIT LIGHT, THERMOPLASTIC HOUSING IS IMPACT-RESISTANT, SCRATCH-RESISTANT AND CORROSION-PROOF, UV-STABLE WHITE RESIN RESISTS DISCOLORATION FROM NATURAL AND MAN-MADE LIGHT SOURCES, LED, RED LETTERING, UNIVERSAL MOUNT, SELF DIAGN	WALL BACK MOUNTED	LED	NICKEL CADMIUM	120 V	3 VA	Acuity Brands Lighting	LHQMSW3R-120/277-N	PER REVIEW BY ENGINEER	ARROWS PER PLANS
Z1	ZL1N 48" 3000 LUMENS FROSTED DIFFUSER MVOLT 4000K 80CRI	SURFACE CEILING	LED	CONSTANT CURRENT	120 V	52.1 VA	Acuity Brands Lighting	ZL1N L48 3000LM FST MVOLT 40K 80 CRI	PER REVIEW BY ENGINEER	

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
○	CEILING OUTLET AND INCANDESCENT, FLUORESCENT, LED OR HID FIXTURE
○ □	WALL OUTLET AND INCANDESCENT, FLUORESCENT, LED OR HID FIXTURE
□ □	CEILING OUTLET AND FLUORESCENT FIXTURE OR LED FIXTURE (SEE FIXTURE SCHEDULE)
⋈ ●	FIXTURE ON EMERGENCY POWER OR POWERED BY EMERGENCY INVERTER, SEE PLANS AND KEYNOTES AND FIXTURE SCHEDULE FOR EXACT INFORMATION
◣ ◔	FIXTURE HALF ON NORMAL/HALF ON BATTERY BALLAST CIRCUIT, DUAL CIRCUITS OR WITH DUAL SWITCHING (REQUIRES TWO BALLASTS). CIRCUITING/SWITCHING AS INDICATED.
▭	WALL MOUNTED FLUORESCENT FIXTURE
⟷	FLUORESCENT STRIP/INDUSTRIAL FIXTURE
▽▽▽	TRACK LIGHTS
◁	FLOODLIGHT
	EMERGENCY BATTERY PACK (8'-6" A.F.F. TO CENTER UNLESS OTHERWISE NOTED)
	EMERGENCY LIGHTING REMOTE HEAD
⊗	EXIT SIGN. CEILING MOUNTED
⊗	EXIT SIGN. MOUNT 4" ABOVE DOOR FRAME
a , b , c	LOWER CASE LETTERS AT OUTLETS INDICATE SWITCHING ARRANGEMENT
(A)	LIGHT FIXTURE TYPE CALLOUT. REFER TO FIXTURE SCHEDULE FOR COMPLETE FIXTURE DESCRIPTION. QUANTITY OF THIS TYPE NOTED IN PARENTHESIS.
$	SINGLE POLE SWITCH – 20 AMP, 277V (46" A.F.F.TO BOTTOM, TYP. ALL SWS.)
$D	DIMMER SWITCH, TO MATCH TYPE OF LIGHTING CONTROLLED – COORDINATE WITH FIXTURE MANUFACTURER AND ENGINEER.
$2	2=2-POLE SWITCH,3=THREE-WAY,4=FOUR-WAY, LV##=LOW VOLTAGE FOR OCC SENSOR (SEE DETAIL FOR MODEL NUMBERS), OC=OCCUPANCY SENSOR TYPE SENSOR SWITCH #WSXPDT, VS= VACANCY SENSOR TYPE SENSOR SWITCH #WSXPDTSA (SEMI-AUTOMATIC TO MEET IECC)
(P)	PHOTO-CELL (TORK MODEL B2101 OR EQUAL)
	EXTERIOR POLE MOUNTED LIGHT FIXTURE (# OF HEADS AS INDICATED)
	DUPLEX RECEPTACLE – 20 AMP,125V,2P,3W,TYP.MTG. AT 18" A.F.F. TO BOTTOM UON WITH HEIGHT NOTED AFF
	DEDICATED 20AMP DUPLEX RECEPTACLE
	QUADRAPLEX RECEPTACLE – (2) DUPLEX RECEPTACLES IN 3 GANG BOX WITH 2 GANG PLASTER RING
	FLUSH FLOOR MOUNTED RECEPTACLE(S) PER SYMBOL, BRUSHED ALUMINUM COVER PLATE, UON – VERIFY COVERPLATE WITH FLOOR TYPE BY ARCHITECT PRIOR TO ORDERING. WHEN SHOWN WITH ADJACENT COMMUNICATION DEVICE, PROVIDE COMBINATION DEVICE PER SYMBOL SHOWN. SEE COMMUNICATION DEVICE/GENERAL NOTES FOR ADDITIONAL INFORMATION, ROUTE CONDUITS UNDER FLOOR OVER TO NEAREST WALL AND STUB UP OR DOWN TO ABOVE CEILING AS NECESSARY.
	DUPLEX RECEPTACLE – 20 AMP, 125V, 2P, 3W, TYP MTG. ABOVE DROP CEILING
	JUNCTION BOX
	PLUGSTRIP WITH RECEPTACLES AT 12" O.C, UNO. MOUNT BOTTOM 2" ABOVE COUNTER TOP BACKSPLASH, UNO.
6-20	SPECIAL OUTLET, NEMA CONFIGURATION AS NOTED OR AS REQUIRED BY EQUIPMENT
	SPECIALTY RECEPTACLE – TL = TWIST LOCK, AMPERAGE INDICATED NEMA CONFIGURATION INDICATE. COORDINATE ALL RECEPTACLES WITH EQUIPMENT MANUFACTURES RECOMMENDATIONS AND REQUIREMENTS.
	PUSH-BUTTON REMOTE RELEASE OR DOOR OPERATOR – COORDINATE WITH ARCHITECT, VENDOR/MANUFACTURER/SUPPLIER
EPO	EMERGENCY POWER OFF PUSH-BUTTON, RED MUSHROOM HEAD, AT 54" AFF, UNO.
	START/STOP PUSH-BUTTON STATION, AT 54" AFF, UNO.
	NEMA 1 ENCL, 600 VOLT, 3P, 30AMP, FUSED DISCONNECT SWITCH AT 4'-6" AFF, UNO.
	NEMA 1 ENCL., 600 VOLT, 3P, 30AMP, NON-FUSED DISCONNECT SWITCH AT 4'-6" A.F.F., UNO.
	MAGNETIC STARTER SIZE 1, NEMA 1 ENCLOSURE WITH HAND-OFF-AUTO SELECTOR SWITCH AT 4'-6" AFF, UNO.
	COMBINATION MAGNETIC STARTER AND FUSED SWITCH SIZE 1, NEMA 1 ENCLOSURE WITH HAND-OFF-AUTO SELECTOR SWITCH AT 4'-6" AFF, UNO.
	MOTOR LOCATION
5	EXHAUST FAN WITH INTEGRAL DISCONNECT FURNISHED BY MECHANICAL
$M	MANUAL MOTOR RATED SWITCH/CONTROLLER, SIZE AS REQUIRED BY LOAD. MOUNT 46" A.F.F. UNLESS OTHERWISE NOTED
	CONDUIT CONCEALED WHERE POSSIBLE (NOTE NOT ALL CONDUIT IS INDICATED ON PLANS)
	CONDUIT CONCEALED IN FLOOR OR BELOW GRADE (NOTE NOT ALL CONDUIT IS INDICATED ON PLANS)
	RECESSED MOUNTED PANELBOARDSEE PLANS/SINGLE-LINE FOR NAME, VOLTAGE AND SIZE
	SURFACE MOUNTED PANELBOARD, SEE PLANS/SINGLE-LINE FOR NAME, VOLTAGE AND SIZE
	SURFACE MOUNTED PANELBOARD, SEE PLANS/SINGLE-LINE FOR NAME, VOLTAGE AND SIZE
▽ ▼	BOX AND COVER PLATE FOR COMMUNICATION OUTLET. MOUNT 18" A.F.F. (W = 48" A.F.F., P = PAY PHONE, D = DICTATION). PROVIDE 1" CONDUIT W/BUSHING & PULLSTRING STUBBED ABOVE ACCESSIBLE CEILING U.O.N.
▽ ▼	BOX AND COVER PLATE FOR COMMUNICATION OUTLET. FLOOR MOUNTED. PROVIDE 1" CONDUIT W/BUSHING & PULLSTRING STUBBED ABOVE ACCESSIBLE CEILING U.O.N.
30cd	VISUAL ADA COMPLIANT FIRE ALARM APPLIANCE:(WALL MOUNT AT 80" A.F.F.), 30 CANDELLA(cd), OR AS OTHERWISE REQUIRED BY SPACE TO MEET CODE, (C = CEILING MOUNT). VERIFY CANDELLA OF STROVE WITH CODE AND FIRE ALARM VENDOR.
70db	CALCULATED SOUND VALUE IN DECIBLES(db),ASSUME 100db AT 10FT FROM HORN WITH 35db LOSS THRU DOOR OR PARTITION TO OBTAIN 70db DESIGN AVERAGE
SD	SMOKE DETECTOR IN DUCT SYSTEM WITH REMOTE TEST SWITCH IN CORRIDOR WALL UNLESS OTHERWISE NOTED. CONNECT PER CODE AND MANUFACTURER REQUIREMENTS, COORDINATE WITH HVAC AND FIRE ALARM MANUFACTURER. PROVIDE FOR FAN SHUTDOWN.
FS	FIRE ALARM FLOW SWITCH
PS	FIRE ALARM PRESSURE SWITCH
TS	FIRE ALARM TAMPER SWITCH
F	FIRE ALARM BREAK STATION MOUNTED 46" A.F.F. TO BOTTOM
F	AUDIO/VISUAL ADA COMPLIANT FIRE ALARM DEVICE (WALL MOUNT @80" A.F.F.), HORN (OR SPEAKER IN HIGH RISE) WITH STROBE APPLIANCE, UNLESS NOTED OTHERWISE ON PLAN OR SPECS. VERIFY CANDELLA OF STROBE WITH CODE & FIRE ALARM VENDOR.
S	SPEAKER/SOUNDER CODE COMPLIANT FIRE ALARM DEVICE(WALL MOUNT AT 80" A.F.F.).
SD A	SYSTEM SMOKE DETECTOR, CEILING MOUNTED UNLESS OTHERWISE NOTED. A= LOW FREQ. AUDIBLE BASE TO MEET APPLICABLE RESIDENTIAL CODE REQUIREMENTS, COORDINATE EXACT LOCATION WITH VENDOR, OTHER EQUIPMENT AND CODE.
R	135 DEGREE F.FIXED TEMPERATURE & RATE OF RISE DETECTOR,UNLESS OTHERWISE NOTED ON PLAN
FP	FIRE FIGHTERS PHONE JACK. COORDINATE EXACT REQUIREMENTS WITH FIRE ALARM.
FACP	MAIN"FIRE ALARM CONTROL PANEL"
FAA	REMOTE"FIRE ALARM ANNUNCIATOR"
SDT	BEAM TYPE WALL MOUNTED SMOKE DETECTOR TRANSMITTER, FIELD ALIGN BEAM WITH RECEIVER, SEE PLANS FOR LOCATION.
SDR	BEAM TYPE WALL MOUNTED SMOKE DETECTOR RECEIVER, FIELD ALIGN BEAM FROM TRANSMITTER, SEE PLANS FOR LOCATION.
S	CEILING SPEAKER
	WALL MOUNTED SPEAKER, 12" BELOW CEILING, UNO.
$v	SPEAKER VOLUME CONTROL, CONNECT TO SPEAKERS IN ROOM LOCATED
TV	BOX AND COVER PLATE FOR TV OUTLET, COORDINATE HEIGHT WITH ARCHITECTURAL ELEVATIONS, PROVIDE 120V DUPLEX RECEPTACLE ADJACENT IN SEPARATE BOX/COMPARTMENT W/COMMON COVERPLATE. SEE GENERAL NOTES, PROVIDE RG-6U COAX TO CTV IN DATA/TELECOM ROOM
CTV	INCOMING COAX PATCH PANEL/SPLITTERS BY LOCAL UTILITY. COIL RG-6U COAX AT LOCATION FOR TERMINATION BY LOCAL PROVIDER.
KP	KP = KEYPAD, CR = CARD READER, EL = ELECTRIC LATCH. CONTRACTOR SHALL PROVIDE BACKBOX AND 1"C STUBBED AND TURNED ABOVE ACCESSIBLE CEILING WITH PULL STRING FOR SECURITY/ACCESS CONTROL DEVICE. PROVIDE 120V CONNECTION TO DOOR LATCHES AS REQUIRED, COORDINATE WITH SECURITY VENDOR FOR EXACT REQUIREMENTS
SPD	SURGE PROTECTION DEVICE, ALSO LABELED AS "TVSS" TRANSIENT VOLTAGE SURGE SUPPRESSION
AC	ABOVE COUNTER – BOTTOM OF COVER PLATE FOR OUTLET 2" ABOVE COUNTER TOP BACKSPLASH.
AFF	ABOVE FINISHED FLOOR – (TO CENTER, UNO.)
HD	HD TELEVISION OUTLET DUPLEX RECEPTACLE AT 57"AFF IN A RECESSED FLAT SCREEN COMBINATION BACK BOX, UNO.
C	CONDUIT
IG	ISOLATED GROUND(TYPE RECEPTACLE)
EM	EMERGENCY
NL	NIGHT LIGHT CIRCUIT (NON-SWITCHED)
WP	WEATHERPROOF (NEMA 3R). PROVIDE IN USE TYPE COVER WHERE NEC REQUIRED
GND	GROUND
GFI GF	GROUND FAULT INTERRUPTER(RECEPTACLE)
UON	UNLESS OTHERWISE NOTED
	THIS IS A STANDARD LEGEND. ALL ITEMS MAY NOT APPEAR ON THIS JOB.

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MEP PROJECT #: 19150

ELECTRICAL LEGEND, SCHEDULES AND NOTES

Addition & Renovation
OVEC Head Start
7304 Dixie Highway
Louisville, KY 40258

DATE: 11.06.2020
DRAWN BY: RAB
CHECKED BY: KAP
REVISIONS:

2019-52.06

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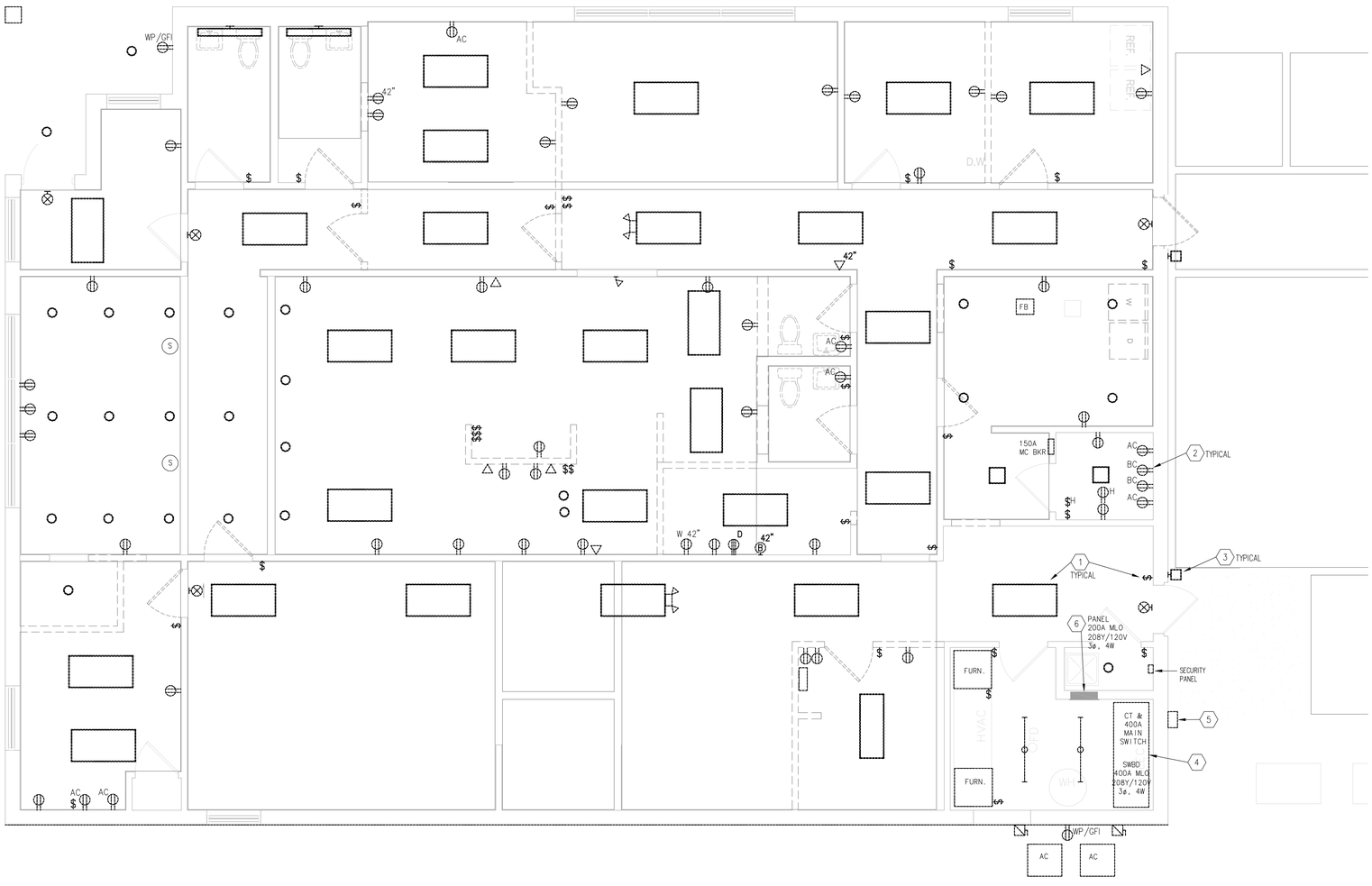

GENERAL NOTES- DEMOLITION

(ALL NOTES MAY NOT APPLY TO THIS SHEET)

A. SEE DRAWING E-0 FOR ADDITIONAL GENERAL NOTES.

B. ALL EXISTING DEVICES ARE NOT INDICATED ON DRAWINGS, DEVICES INDICATED ON DRAWINGS ARE FOR ADDITIONAL CLARIFICATION.

C. COORDINATE WITH ALL TRADES AND THEIR DOCUMENTS FOR THE DEMOLITION AND RELOCATION OF THEIR EQUIPMENT. PROVIDE ALL LABOR AND MATERIAL WHERE REQUIRED.

D. THE LOCATION OF ALL ELECTRICAL DISTRIBUTION EQUIPMENT, DEVICES, SYSTEMS EQUIPMENT, CIRCUITS, FEEDERS, TERMINATIONS, ETC., AS INDICATED ON THIS DRAWING WERE TAKEN FROM VARIOUS SOURCES. THE INFORMATION IS DIAGRAMMATIC ONLY AND IS SUBJECT TO VARIATION FROM EXISTING CONDITIONS. IN FACT, CERTAIN EXISTING CONDITIONS MAY NOT BE INDICATED AT ALL. CONTRACTORS PROPOSING TO DO ANY PART OF THE WORK INDICATED HEREIN OR AS DEFINED IN THE SCOPE OF WORK SHALL REVIEW THE COMPLETE SET OF CONTRACT DOCUMENTS, VISIT THE SITE AND DETERMINE TO HIS/HER SATISFACTION THAT HE/SHE WILL BE ABLE TO COMPLETE ALL WORK REQUIRED FOR THE BID AMOUNT PROPOSED.

E. COORDINATE THE LOCATION OF EXISTING CONDUITS AND JUNCTION BOXES WITH NEW MECHANICAL SYSTEM AND OTHER APPLICABLE SYSTEMS. DEVICES, CONDUITS, CABLING, SUPPORTS, AND JUNCTION BOXES THAT ARE IN CONFLICT SHALL BE RELOCATED TO BOTTOM OF STRUCTURE ABOVE AS NECESSARY TO ACCOMMODATE ALL NEW CONSTRUCTION, INCLUDING BUT NOT LIMITED TO NEW CEILINGS, MECHANICAL, PLUMBING, NEW CONDUIT ROUTING, AND ELECTRICAL EQUIPMENT AND SYSTEMS.

F. THE CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF EXISTING CIRCUITS THAT CONTAIN DEVICES OR EQUIPMENT THAT ARE TO REMAIN. WHERE DEMOLITION/RELOCATION OF DEVICES AND EQUIPMENT IS INDICATED, THE CONTRACTOR SHALL ENSURE THAT OTHER DEVICES OR EQUIPMENT THAT ARE CONNECTED TO THE SAME CIRCUIT, WHETHER "UPSTREAM" OR "DOWNSTREAM", SHALL REMAIN OPERATIONAL. UNUSED CIRCUIT BREAKERS SHALL REMAIN AND BE LABELED AS SPARES IN ALL AFFECTED PANELBOARDS. IN ADDITION, PROVIDE NEW TYPEWRITTEN DIRECTORIES IN ALL AFFECTED PANELBOARDS.

G. COORDINATE WITH ALL TRADES NOT TO DAMAGE EXISTING CABLES AND WIRING (DESIGNATED TO BE RELOCATED IN NEW CONSTRUCTION) BEING TEMPORARILY COILING UP AND STORED ABOVE CEILING. TEST ALL CABLES AND WIRING PRIOR TO DEMOLITION. NOTIFY CONSTRUCTION MANAGER OF ALL CABLES THAT DO NOT OPERATE PER SYSTEMS SPECIFICATIONS. CABLES NOT BEING REUSED SHALL BE REMOVED COMPLETELY. MAINTAIN "UPSTREAM" AND/OR "DOWNSTREAM" CONNECTIONS.

H. COORDINATE WITH CONSTRUCTION MANAGER TO REWORK AND RELOCATE ANY DISTURBED EXISTING SYSTEM DEVICES PER OWNER'S VENDOR.

I. DASHED LINES INDICATE ITEMS TO BE REMOVED. RETAIN EXISTING LIGHTING CIRCUITRY FOR REUSE IN RENOVATION, REFER TO LIGHTING PLANS. POWER OR SIGNAL DEVICE CIRCUITS ARE TO BE REMOVED BACK TO NEAREST REMAINING DEVICE OR PANEL WHICHEVER IS APPLICABLE, CIRCUITS SHALL BE EXTENDED TO NEW DEVICES AS NOTED.

KEYNOTES- DEMOLITION

(ALL NOTES MAY NOT APPLY TO THIS SHEET)

1 REMOVE ALL EXISTING LIGHT FIXTURES AND LIGHTING CONTROL DEVICES AND ASSOCIATED BOXES, CONDUITS, WIRING, AND SUPPORTS COMPLETE. WHERE APPLICABLE, RETAIN EXISTING CONDUITS AND BACK BOXES IN WALLS THAT ARE IN LIKE NEW CONDITION AND MEET MINIMAL CODE AND PROJECT REQUIREMENTS, FOR REUSE IN RENOVATION. REFER TO LIGHTING RENOVATION PLAN, AND COORDINATE WITH ALL CONTRACT DOCUMENTS.

2 REMOVE ALL EXISTING BUT NOT LIMITED TO: ELECTRICAL DEVICES, COMMUNICATIONS DEVICES, SIGNAL-VOLTAGE DEVICES AND ASSOCIATED BOXES, CONDUITS, WIRING, AND SUPPORTS COMPLETE. WHERE APPLICABLE, RETAIN EXISTING CONDUITS AND BACK BOXES IN WALLS THAT ARE IN LIKE NEW CONDITION AND MEET MINIMAL CODE AND PROJECT REQUIREMENTS, FOR REUSE IN RENOVATION. REFER TO POWER AND SYSTEMS RENOVATION PLAN, AND COORDINATE WITH ALL CONTRACT DOCUMENTS.

3 REMOVE ALL EXISTING EXTERIOR LIGHT FIXTURES AND EXTERIOR LIGHTING CONTROL DEVICES AND ASSOCIATED BOXES, CONDUITS, WIRING, AND SUPPORTS COMPLETE. WHERE APPLICABLE, RETAIN EXISTING CONDUITS AND BACK BOXES IN WALLS THAT ARE IN LIKE NEW CONDITION AND MEET MINIMAL CODE AND PROJECT REQUIREMENTS, FOR REUSE IN RENOVATION. REFER TO LIGHTING RENOVATION PLAN, AND COORDINATE WITH ALL CONTRACT DOCUMENTS

4 EXISTING SERVICE ENTRANCE DISTRIBUTION, REFER TO "ELECTRICAL ONE-LINE DIAGRAM", SHEET E-3.

5 EXISTING UTILITY COMPANY METER: COORDINATE INCLUDING BUT NOT LIMITED TO ALL LABOR, MATERIALS, FEES, ETC. FOR A COMPLETE INSTALLATION PER ALL CODES AND UTILITY COMPANY'S REQUIREMENTS.

6 REMOVE EXISTING PANELBOARD COMPLETE.

DEMOLITION
FIRST FLOOR PLAN

GRAPHIC SCALE SUPERSEDES NUMERIC SCALE
0 4 8 16

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MEP PROJECT #: 19150

ELECTRICAL DEMO

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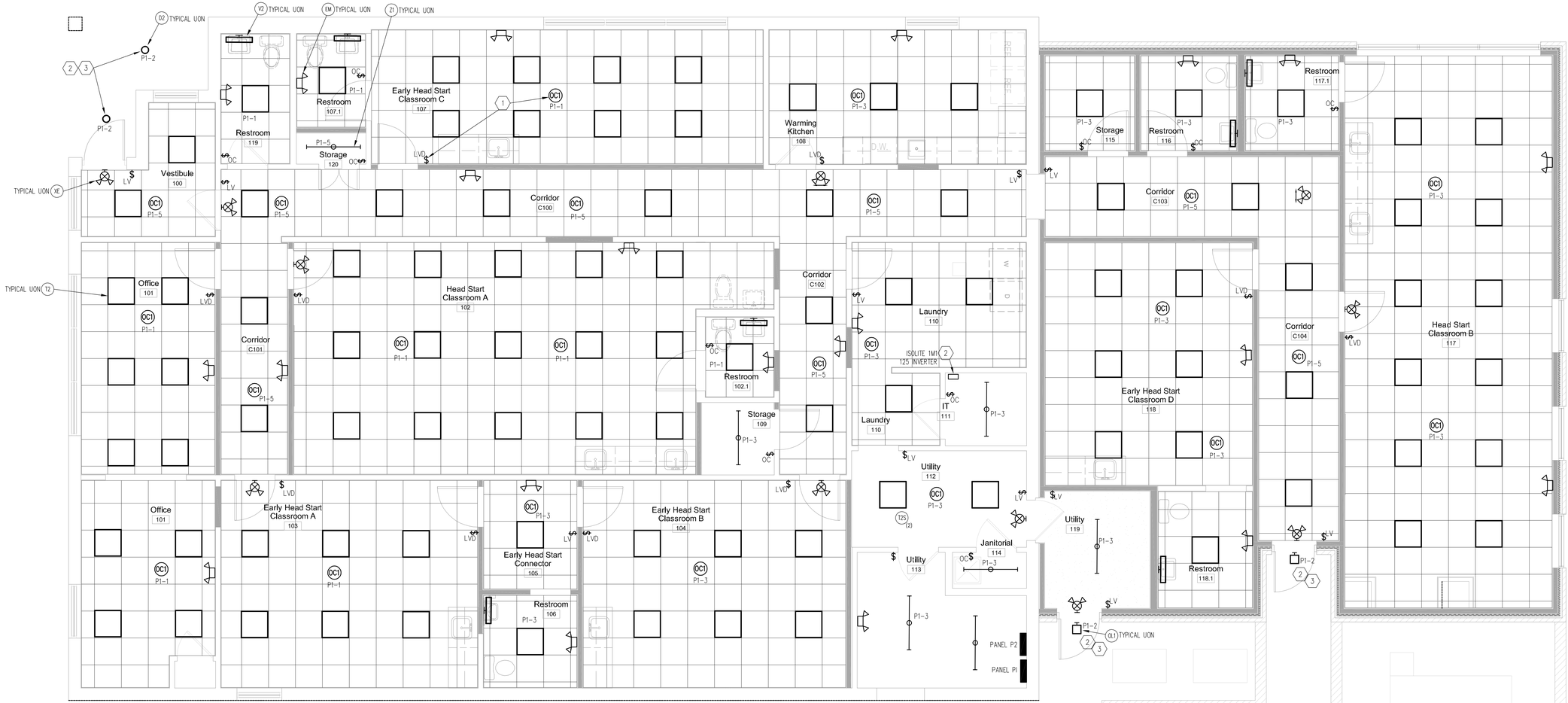

LIGHTING
FIRST FLOOR PLAN

GRAPHIC SCALE SUPERSEDES NUMERIC SCALE

0 2 4 8

GENERAL NOTES - LIGHTING:

(ALL NOTES MAY NOT APPLY TO THIS SHEET)

A. SEE DRAWING E-0 FOR ADDITIONAL NOTES AND FIXTURE SCHEDULE.

B. COORDINATE EXACT MOUNTING HEIGHTS AND LOCATIONS WITH ARCHITECTURAL ELEVATIONS, NEW WORK, AND ALL TRADES (MECHANICAL, PLUMBING EQUIPMENT, DUCTWORK, ETC.)

C. ALL LIGHTING FIXTURES ARE TO BE SUPPORTED PER CURRENT NEC.

D. LIGHTING FIXTURES SHALL BE WIRED TO SWITCHES GENERALLY SHOWN IN EACH ROOM AND CONNECTED TO LIGHTING PANELS WITH THE REQUIRED QUANTITY OF WIRES FOR PROPER OPERATION. A CONTINUOUS GROUND MUST BE PROVIDED THROUGH CONDUIT SYSTEM. EXIT LIGHTS, INVERTERS, AND NIGHT LIGHTS SHALL BE CONNECTED AHEAD OF LOCAL SWITCHING ON SAME CIRCUIT.

E. FOR CEILING MOUNTED OCCUPANCY SENSORS, PROVIDE CEILING MOUNTED LIGHTING CONTROL CONSISTING OF A SENSOR SWITCH, CIRCUIT AHEAD OF ANY WALL BOX CONTROLS OR SWITCHES, (SEE PLAN). COLOR PER ARCHITECT. SEE TYPICAL DIAGRAM DRAWING E-3.

F. FOR WALL SWITCH/OCCUPANCY SENSORS. PROVIDE WALL BOX LIGHTING CONTROL CONSISTING OF A SENSOR SWITCH PER LEGEND OR TYPICAL DIAGRAM DRAWING E-3 AS APPROPRIATE, ALL DEVICES IVORY IN COLOR.

G. FOR LIGHTING SWITCH DESIGNATION SEE LIGHTING CONTROL "SWITCHES" SCHEDULE THIS DRAWING.

H. FOR ALL WALL SWITCH COVER PLATES PROVIDE OUTLET BOX COVER PLATE CONSISTING WITH LUTRON CW-X OUTLET BOX COVER PLATE. (X-INDICATED NUMBER OF DEVICES PER LOCATION. ALL DEVICES AND COVERPLATES IVORY IN COLOR).

I. PROVIDE ALL LABOR AND MATERIALS TO REWORK AND/OR RELOCATE SWITCHING WHERE DOOR AND DOOR FRAMES ARE BEING REPLACED (ENLARGED) AND REQUIRED MOVING SWITCH, COORDINATE WITH ALL CONTRACT DOCUMENTS. PROVIDE NEW DEVICE TO MATCH EXISTING ROOM DEVICE COLOR AND COVER PLATE TO MATCH EXISTING ROOM DEVICE COLOR AND MATERIAL IF APPLICABLE.

KEYNOTES - LIGHTING:

(ALL NOTES MAY NOT APPLY TO THIS SHEET)

1. SEE VACANCY/OCCUPANCY CONTROL TYPICAL WIRING DIAGRAMS ON DRAWING E-3, TYPICAL. COORDINATE WITH ENGINEER. COORDINATE EXACT LOCATION OF CEILING MOUNTED SENSORS WITH MANUFACTURER, OTHER TRADES AND ENGINEER/CONTRACTOR/ARCHITECT PRIOR TO ROUGH-IN TO CONFIRM COVERAGE.
2. CIRCUIT EXTERIOR FIXTURES VIA REMOTE EMERGENCY INVERTER ISOLITE IMI 125 IN THE IT ROOM 111. COORDINATE THIS CONNECTION REQUIREMENT WITH MANUFACTURER FOR CORRECT NUMBER OF CONDUCTORS, ETC. FOR PROPER OPERATION OF NORMAL SWITCHING AND EMERGENCY OPERATION.
3. CIRCUIT EXTERIOR FIXTURES INDICATED THRU PHOTOCELL/TIMECLOCK SYSTEM.
4. PROVIDE NEW CIRCUIT P1-44 FOR EXISTING PARKING LOT LIGHTING STANDARDS. VERIFY EXACT LOCATION OF FIXTURES IN FIELD.
5. PROVIDE NEW CIRCUITS P1-46 AND P1-48 FOR BUILDING SIGNAGE. VERIFY EXACT LOCATIONS IN FIELD.

LIGHTING CONTROL (SWITCHES)

NOTES:
1. POWER PACKS AND CONTROLLED RELAYS ARE NOT INDICATED ON PLANS AND ARE TO BE PROVIDED PER MANUFACTURER'S REQUIREMENTS TO MEET THE INTENT OF THE DESIGN.
2. OTHER POWER PACKS AND CONTROLLED RELAYS AS REQUIRED.

DEVICE LABEL	SYMBOL LABEL	DESCRIPTION	MANUFACTURER	MODEL	DEVICE TYPE
	$	DESIGNER STYLE SINGLE POLE SWITCH. TURN THE LIGHTS ON AND OFF WITH THE PADDLE SWITCH. (VERIFY VOLTAGE AND COLOR)	LUTRON	CA-1PSH	LINE-VOLTAGE SWITCH
OC	$	WALL SWITCH SENSOR, PASSIVE DUAL TECHNOLOGY (1) BUTTON (ON/OFF) PRESET AT "AUTO-ON" FOR ROOM LIGHTS. ("XX" COLOR AS SPECIFIED)	SENSOR SWITCH	WSX PDT XX	LINE-VOLTAGE SWITCH
LV	$	LOW VOLTAGE (2) BUTTON PUSH-BUTTON WALLPOD ("XX" COLOR AS SPECIFIED). USE VACANCY CONTROL TYPE "SA" POWER PACKS, UNLESS NOTED OTHERWISE. COORDINATE PROGRAMMING WITH OWNER.	nLIGHT	NPODM XX	LOW-VOLTAGE SWITCH
LVD	$	LOW VOLTAGE (3) BUTTON (RAISE, LOWER, AND ON/OFF-TOGGLE) PUSH-BUTTON WALLPOD ("XX" COLOR AS SPECIFIED). USE VACANCY CONTROL TYPE "SA" POWER PACKS, UNLESS NOTED OTHERWISE RAISE/LOWER DIMMING WITHOUT WIRES.	nLIGHT	NPODM DX XX	LOW-VOLTAGE SWITCH

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MEP PROJECT #: 19150

PARTIAL FLOOR PLAN - LIGHTING

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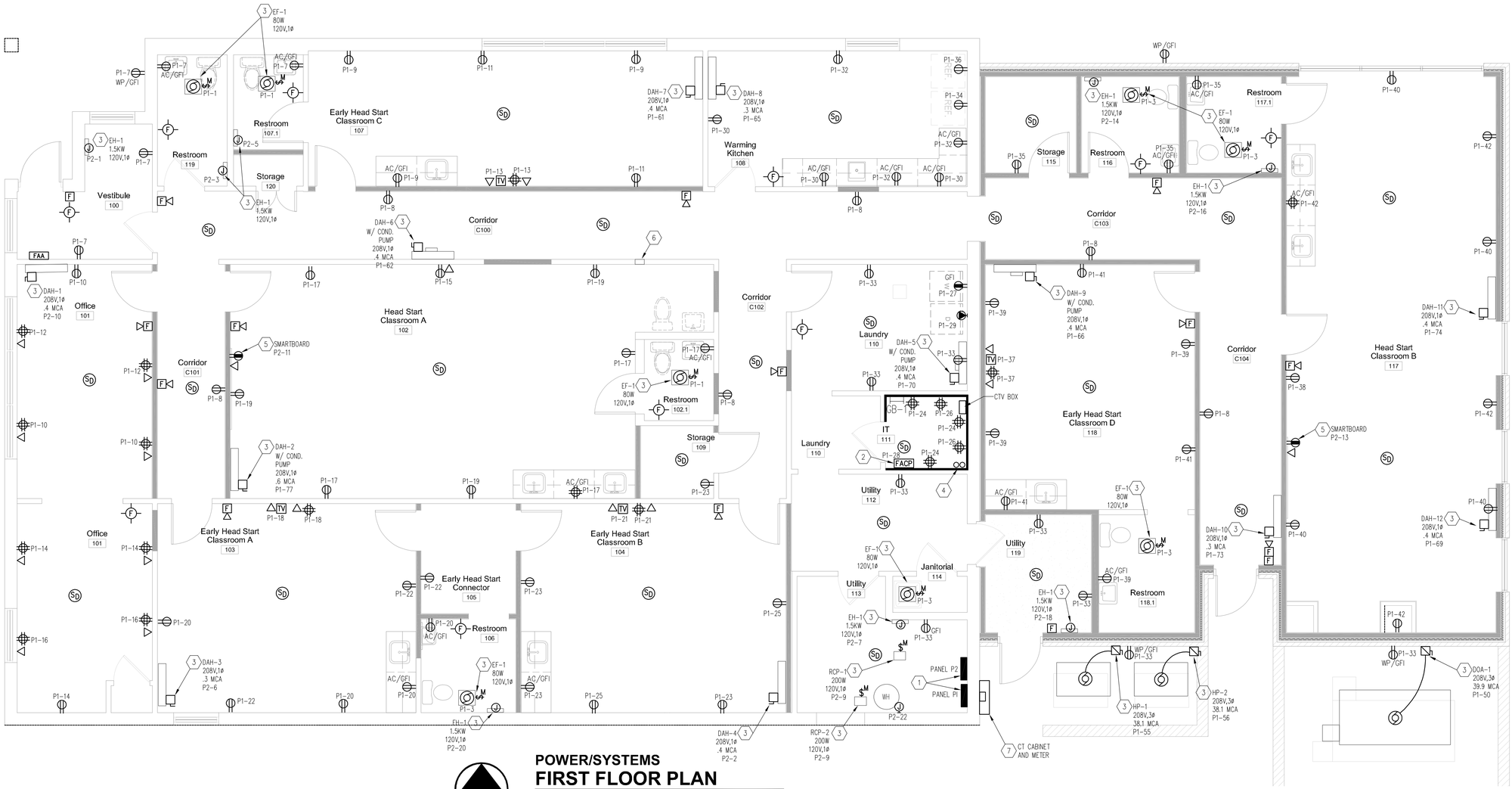

POWER/SYSTEMS

FIRST FLOOR PLAN

GRAPHIC SCALE SUPERSEDES NUMERIC SCALE

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GENERAL NOTES - POWER:

(ALL NOTES MAY NOT APPLY TO THIS SHEET)

A. SEE DRAWING E-0 FOR ADDITIONAL LEGEND, GENERAL NOTES, AND OTHER SCHEDULES.

B. COORDINATE REMOVAL OF HVAC/MECHANICAL/PLUMBING EQUIPMENT WITH MECHANICAL/PLUMBING DRAWINGS. REMOVE ALL ELECTRICAL, PULL ALL CIRCUITS BACK TO SOURCE UNLESS REQUIRED TO POWER NEW EQUIPMENT (SEE PLANS FOR NOTES).

C. COORDINATE EXACT MOUNTING HEIGHTS AND LOCATIONS WITH EXISTING CONDITIONS, ARCHITECTURAL ELEVATIONS, NEW WORK, AND ALL TRADES. ALL DEVICES AND COVERPLATES TO BE IVORY IN COLOR, COORDINATE WITH ARCHITECT.

D. COORDINATE WITH ALL SYSTEMS AND TRADES TO PROVIDE COMPLETE DISTRIBUTION SYSTEMS REQUIRED FOR COMPLETE AND OPERABLE SYSTEMS. INCLUDING BUT NOT LIMITED TO HVAC, PLUMBING, FIRE ALARM, SECURITY, DOOR ELECTRONICS, CCTV, CTV, MONITORING, INTERCOM, CLOCK, PAGING, VOICE/DATA, CABLE TELEVISION, ETC.

E. COORDINATE MOUNTING AND EXACT LOCATIONS OF ALL MECHANICAL AND PLUMBING EQUIPMENT DISCONNECTS, STARTERS, ETC. WITH ALL TRADES AND IN ACCORDANCE WITH ALL STATE, LOCAL, AND NATIONAL CODES. PROVIDE ALL LABOR AND MATERIALS TO CONNECT COMPLETE. PROVIDE SIZES PER UNIT NAME PLATE, FINAL CONNECTIONS WITH SEAL-TITE.

F. PROVIDE DUCT SMOKE DETECTORS FOR ALL SMOKE DAMPERS AND IN ALL NEW MECHANICAL EQUIPMENT PER FIRE ALARM SUPPLIER, HVAC EQUIPMENT SCHEDULES, ALL TRADES AND CODES. COORDINATE EXACT SAMPLING TUBE, EXACT LOCATION, MOUNTING METHODS, QUANTITY AND REQUIREMENTS. PROVIDE ALL LABOR AND MATERIALS TO CONNECT COMPLETE. PROVIDE FAN SHUTDOWN PER APPLICABLE CODES, STANDARDS AND FIRE MARSHALL.

G. COORDINATE EXACT POWER AND SIGNAL-VOLTAGE REQUIREMENTS, LOCATIONS, CONDUITS, AND CABLING REQUIREMENTS FOR ALL SYSTEMS SPECIFIED BY OWNER'S VENDORS AND WITH GENERAL CONTRACTOR AND OWNER. PROVIDE ALL LABOR AND MATERIALS TO CONNECT COMPLETE.

H. REFER TO EQUIPMENT SCHEDULES ON ALL CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION FOR HVAC AND PLUMBING CONNECTIONS. PROVIDE ALL LABOR AND MATERIALS TO CONNECT COMPLETE.

I. COORDINATE EXACT LOCATION AND NUMBER OF "TV" CABLE AND POWER OUTLETS WITH OWNER PRIOR TO INSTALLATION. PROVIDE ALL LABOR AND MATERIALS TO CONNECT COMPLETE.

J. COORDINATE EXACT WALL BOX REQUIREMENTS PRIOR TO ROUGH-IN. WHERE POSSIBLE REUSE EXISTING RACEWAYS AND BOXES, OR FISH WALLS AND PROVIDE RECESSED BACK BOXES. PROVIDE SURFACE MOUNTED RACEWAY CONDUITS, BACK BOXES AND ALL ACCESSORIES EQUAL TO WIREMOLD SERIES #V2000WH WHERE RACEWAYS AND BACK BOXES ARE EXPOSED (VERIFY WITH ARCHITECT PRIOR TO INSTALLATION). PROVIDE ALL LABOR AND MATERIALS TO CONNECT NEW EQUIPMENT, DEVICES, ETC. COMPLETE TO PANEL INDICATED, 20A/1P, U.N.O.

F. ALL RECEPTACLES NEAR SINKS AND OTHER SIMILAR LOCATIONS, EXTERIOR AND ROOFTOP AREAS SHALL BE PROTECTED BY GFCI PER NEC 210.8 (B). IN GENERAL, ALL DEVICES IN AREAS DESIGNATED IN NEC 210.8 SHALL BE GFCI PROTECTED WHETHER INDICATED OR NOT.

G. ALL DEVICES IN GENERAL CARE PEDIATRIC LOCATIONS (AS DEFINED IN NEC 517) SHALL ALSO BE TAMPER-RESISTANT TO MEET NEC 517.18 (C).

H. COORDINATE ALL FIRE ALARM WORK WITH FIRE ALARM SYSTEM VENDOR REPRESENTATIVE BEFORE SUBMITTING BIDS AND PROVIDE A COMPLETE AND FULLY CONDUITED SYSTEM. PAINT ALL JUNCTION BOX COVERS RED AND PROVIDE ALL FIRE ALARM WIRING IN RED CONDUIT MANUFACTURED BY ALLIED TUBE AND CONDUIT. PROVIDE ALL CONNECTIONS TO DUCT SMOKES, ETC. FOR FULLY FUNCTIONAL NFPA COMPLIANT SYSTEM. PROVIDE DEDUCT ALTERNATE TO PROVIDE PLENUM RATED UL LISTED FIRE ALARM CABLING TO MEET ALL APPLICABLE CODES IN LIEU OF A FULLY CONDUITED SYSTEM.

KEYNOTES - POWER:

(ALL NOTES MAY NOT APPLY TO THIS SHEET)

1. PROVIDE NEW ELECTRICAL BRANCH PANELS AS INDICATED. SEE E-3 FOR SINGLE-LINE DIAGRAM AND E-4 FOR PANEL SCHEDULES AND ADDITIONAL INFORMATION.
2. PROVIDE FIRE ALARM SYSTEM WITH DIGITAL DIALER AND ANNUNCIATOR CONFORMING TO ALL LOCAL, STATE AND NATIONAL CODES. COORDINATE WITH LOCAL AHJ/FIRE MARSHALL FOR ALL REQUIREMENTS AND PROVIDE COMPLETE. PROVIDE FOR SPRINKLER MONITORING AND DUCT SMOKE DETECTION/FAN SHUTDOWN TO MEET APPLICABLE CODES. PROVIDE DATA CONNECTION(S) TO DATA CLOSET AS REQUIRED FOR DIGITAL DIALER.
3. POWER CONNECTION FOR MECHANICAL/PLUMBING EQUIPMENT. COORDINATE EXACT LOCATION, CONTROLS, POWER AND REQUIREMENTS WITH EQUIPMENT MANUFACTURER AND ALL TRADES TO INSTALL COMPLETE. PROVIDE DISCONNECT RATED (NEMA 1 INTERIOR, NEMA 3R EXTERIOR) AND SIZED/FUSED PER MANUFACTURER RECOMMENDATIONS IF NOT FACTORY PROVIDED AS PART OF EQUIPMENT (SEE MECHANICAL FOR BASIS OF DESIGN MCA AND MOCP). PROVIDE CIRCUIT TO PANEL INDICATED. EXACT CIRCUIT BREAKER AND BRANCH CIRCUIT SIZE SHALL BE BASED ON ACTUAL EQUIPMENT PROVIDED TO MEET MANUFACTURER'S RECOMMENDATIONS. FINAL CONNECTION WITH SEAL-TITE.
4. PROVIDE FIRE RETARDANT BACKBOARD FOR DATA/TELECOM EQUIPMENT AS INDICATED. PROVIDE DEDICATED 20A, 120V. CIRCUITS TO QUADRAPLEX OUTLETS AS INDICATED. PROVIDE (2) 4"C TO EXTERIOR UTILITY CONNECTION PER LOCAL UTILITY. FIELD COORDINATE EXACT REQUIREMENTS AND LOCATIONS WITH OWNER'S IT REPRESENTATIVE AND LOCAL UTILITY PROVIDER. PROVIDE GROUND BAR AS INDICATED, SEE DETAIL ON E-3.
5. PROVIDE 120V. 1ø CIRCUIT FOR SMARTBOARD. VERIFY EXACT LOCATION WITH ARCHITECT, VERIFY WIRING REQUIREMENTS WITH VENDOR PRIOR TO ROUGH-IN OF BOXES AND CONDUITS.
6. FIRE/SMOKE DAMPER, VERIFY EXACT LOCATION WITH MECHANICAL CONTRACTOR. SEE GENERAL NOTE F, THIS DRAWING.
7. PROVIDE CT CABINET AND METERING PER UTILITY COMPANY REQUIREMENTS. SEE SINGLE – LINE DIAGRAM ON DRAWING E-3.

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MEP PROJECT #: 19150

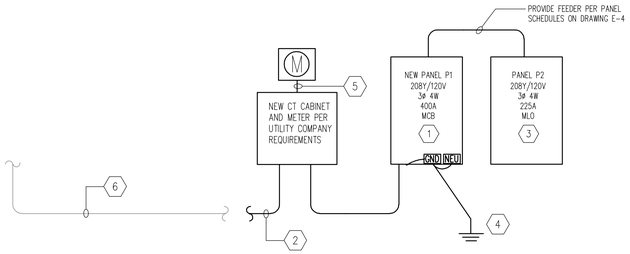
PARTIAL FLOOR PLAN - POWER/SYSTEMS

Addition & Renovation
OVEC Head Start
7304 Dixie Highway
Louisville, KY 40258

DATE: 11.06.2020
DRAWN BY: RAB
CHECKED BY: KAP
REVISIONS:

2019-52.06

E-2



ELECTRICAL SINGLE-LINE DIAGRAM 01

SCALE: NONE

KEYNOTES - SINGLE-LINE DIAGRAM:

1. PROVIDE NEW SERVICE ENTRANCE RATED PANERLBOARD P1 AS INDICATED. PROVIDE FEEDER PER PANEL SCHEDULE ON DRAWING E-4.
2. PROVIDE NEW CT CABINET AND METERING PER UTILLITY COMPANY REQUIREMENTS. INTERCEPT EXISTING UTILITY CONDUIT AND EXTEND TO NEW PANEL P1 PER UTILITY DIRECTION. COORDINATE ALL WITH UTILITY. SEE PANELBOARD SCHEDULE, DRAWING E-4 FOR FEEDER SIZE.
3. PROVIDE NEW DISTRIBUTION/BRANCH PANELBOARD AS INDICATED. SEE PLANS FOR LOCATION – FIELD COORDINATE EXACT LOCATIONS WITH OTHER TRADES AND ARCHITECTURAL LAYOUT TO PROVIDE NECESSARY NEC CLEARANCES, ETC. SEE PANEL SCHEDULES E-4.
4. PROVIDE SERVICE GROUNDING PER LOCAL UTILITY AND NEC, SEE DETAIL 02 FOR ADDITIONAL INFORMATION.
5. PROVIDE METERING PER UTILITY COMPANY REQUIREMENTS, EXACT LOCATION TO BE VERIFIED WITH UTILITY COMPANY.
6. EXISTING CONDUIT TO UTILITY POLE/TRANSFORMERS TO REMAIN. UTILITY TO RUN NEW SERVICE ENTRANCE FROM TRANSFORMERS TO NEW METERING EQUIPMENT. FIELD COORDINATE.

GENERAL NOTES - PANELBOARD AND SINGLE-LINE DIAGRAM:

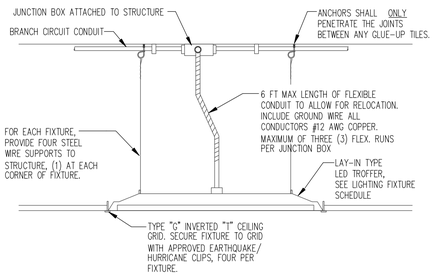
A. PROVIDE PANELBOARDS WITH TYPE WRITTEN SCHEDULES AND AS-BUILT DRAWINGS PER ACTUAL INSTALLATION.

B. FOR ALL PANELBOARD FEEDER SIZES REFER TO PANELBOARD SCHEDULES, DRAWING E-4.

C. ALL EQUIPMENT FEEDER SIZES INDICATED ON PANEL SCHEDULE, UON OR PROVIDE PER NEC TO MATCH NAMEPLATE AND CORRESPONDING OVERCURRENT PROTECTION DEVICE.

D. REFER TO POWER PLAN FOR DISTRIBUTION EQUIPMENT 'BASIS OF DESIGN' PHYSICAL SIZES AND LAYOUTS. CONTRACTOR SHALL PROVIDE AND INSTALL DISTRIBUTION EQUIPMENT TO MEET REQUIREMENTS OF ALL LOCAL, STATE, NATIONAL CODES AND AUTHORITY HAVING JURISDICTION. COORDINATE WITH EXISTING CONDITIONS, ALL NEW WORK, ACTUAL ROOM SIZE, ALL TRADES AND DISTRIBUTION EQUIPMENT SUPPLIER.

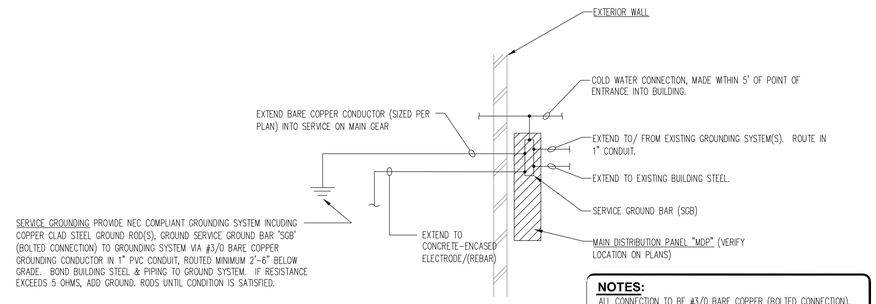
E. VERIFY EXACT A.I.C. RATING FOR ALL DISTRIBUTION EQUIPMENT WITH ACTUAL SITE AND EQUIPMENT CHARACTERISTICS OF AVAILABLE FAULT CURRENT PER LOCAL UTILITY AND PROPER SHORT CIRCUIT CALCULATIONS PER MANUFACTURER CALCULATION. SIZES INDICATED ARE A MINIMAL DESIGN SIZE BASED ON INFORMATION PROVIDED AT TIME OF DESIGN. CONTRACTOR TO VERIFY.



MOUNTING DETAIL

RECESSED LIGHTING FIXTURE 05

SCALE: NONE



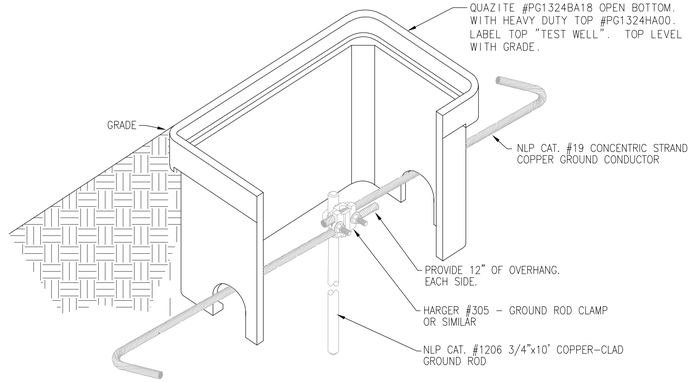
NOTES:

ALL CONNECTION TO BE #3/0 BARE COPPER (BOLTED CONNECTION). PROVIDE ALL LABOR AND MATERIALS TO COMPLY WITH NEC FOR GROUNDING OF ALL SYSTEMS AND EQUIPMENT. ROUTE IN 1" EMT CONDUITS

ALL GROUNDING SHALL MEET APPROVAL OF LOCAL AUTHORITY HAVING JURISDICTION AND SHALL BE CONFIRMED AND COORDINATED PRIOR TO INSTALLATION. DEVIATIONS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW.

GROUND NETWORK DETAIL 02

SCALE: NONE

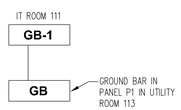


GROUND INSPECTION WELL (TEST WELL) 03

SCALE: NONE

TELECOM KEY NOTES:

1. PROVIDE 1/4"X 4" X 24" COPPER SERVICE GROUND BARS WALL MOUNTED ON 2" STAND-OFF INSULATORS FOR ALL.
2. INTERCONNECT TELECOM GROUND BARS VIA #4 BARE COPPER CONDUCTOR TO GROUND BAR GB AT NEW PANEL P1. PROVIDE ALL MOUNTING HARDWARE NECESSARY.



TELECOMMUNICATION

GROUNDING SYSTEM DETAIL 06

SCALE: NONE

NETWORK LIGHTING CONTROLS GENERAL NOTES

1. QUANTITY AND TYPE OF POWER PACKS ARE SUBJECT TO CHANGE DEPENDING ON CIRCUITRY OR DIMMING TYPE.
2. PROVIDED AN ISOLATED RELAY (AR) DRY CONTACT IN OCCUPANCY SENSORS FOR COMMUNICATION WITH THE HVAC SYSTEM.
3. PROVIDED A NIO PC KIT FOR SITE LIGHTING.
4. CONFIRM BALLAST\DRIVER TYPES MATCH CONTROLS SELECTED PRIOR TO SUBMISSION OF BID.
5. VERIFY SEQUENCE OF OPERATIONS WITH OWNER.
6. PROVIDE AN NCOMKIT FOR ON-SITE COMMISSIONING.
7. GLOBAL CHANNELS ARE REQUIRED TO MEET THE INTENDED SEQUENCE OF OPERATIONS.
8. POWER TO ALL DEVICES WITHIN A SYSTEM SHALL BE DE-ENERGIZED AND REMAIN DE-ENERGIZED UNTIL INSTALLATION OF SYSTEM IS COMPLETE. POWER (CIRCUIT BREAKERS) SERVING CONTROL DEVICE SHALL NOT BE REPETITIVELY SWITCHED ON AND OFF. VERIFY THAT ALL EXTERNAL FAULT PROTECTION (EFP) FUSES ARE IN WORKING CONDITION, REPLACE FAULTY FUSES.

NETWORK LIGHTING CONTROLS

CONSISTS OF SENSORS, POWER PARKS, ENABLED LIGHT FIXTURES, AND USER INTERFACES AS INDICATED ON FLOOR PLANS. NETWORK SOFTWARE SHALL BE USED TO LINK DEVICES TOGETHER, CHANGE SENSOR SETTINGS AND SCHEDULE TIME CLOCK EVENTS.

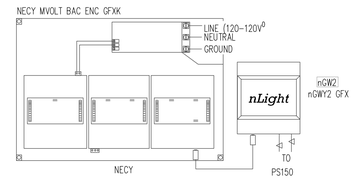
ALL DEVICES SHALL BE ADDRESSABLE AND FUNCTION IN DEFAULT CAPACITY IF NETWORK CONNECTIVITY IS LOST. OCCUPANCY SENSOR SHALL BE CONFIGURABLE THRU SOFTWARE AS MANUAL "ON OR AUTOMATIC "ON". VACANCY "OFF" CONTROL TIME OUT SHALL BE ADJUSTABLE AS A TIME CLOCK EVENT.

SEQUENCE OF OPERATION

A. OFFICES, CONFERENCE ROOMS, STORAGE ROOM
   1. OCCUPANCY CONTROL
      - LIGHTS TURN "ON " WITH MANUAL BUTTON PUSH AND MANUALLY DIM AS OCCUPANT USES RAISE/LOWER BUTTONS. LIGHTS TURN "OFF " BY MANUAL BUTTON PUSH OR "OFF " AUTOMATICALLY AFTER ROOM IS VACANT AND TIME OUT PERIOD HAS EXPIRED.
   2. DAYLIGHTING (IF INDICATED)
      - AUTOMATIC DIMMING OF LIGHTING PER DAYLIGHTING ZONE TARGETING. ARTIFICIAL LIGHT LEVEL SET POINTS. SOFTWARE TO ALLOW ADJUSTMENT OF SENSOR DEAD BAND TIME DELAY TO AVOID RAPID LIGHT LEVEL RAMPING DUE TO NATIONAL LIGHT VARIATION FROM CLOUDS. MANUAL DIMMING SHALL OVERRIDE DAYLIGHTING CONTROL UNTIL LIGHTING IS SWITCHED "OFF " AND BACK "ON."

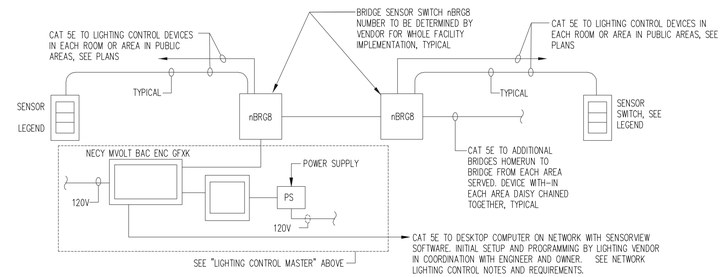
B. COMMON AREAS, CORRIDORS, RESTROOMS, STACK AREAS
   1. OCCUPANCY CONTROL
      - DURING SCHEDULED OPERATING HOURS THE LIGHTING SHALL BE CONTROLLED BY THE TIME CLOCK SCHEDULE EVENTS THROUGH THE LIGHTING SOFTWARE. DURING OPERATING HOURS OCCUPANCY SENSORS SHALL BE MASKED OUT TO KEEP LIGHTING ON. DURING NON-OPERATING HOURS, OCCUPANCY SENSOR TO CONTROL LIGHTING AUTOMATICALLY. LOCAL MANUAL CONTROLS TO BE MASKED OUT AS DIRECTED BY OWNER THROUGH SOFTWARE PROGRAMMING. DURING NON-OPERATING HOURS MANUAL CONTROL SHALL BE FUNCTIONAL.
   2. DAYLIGHT (IF NEEDED)
      - SAME AS OFFICES

LIGHTING CONTROLS SUPPLIER SUBMITTALS TO INCLUDE DATA SHEETS, PROJECT RISER DIAGRAM, FLOOR PLAN DRAWING INDICATING SENSOR COVERAGE AND DEVICE TO DEVICE WIRING. BASIC OF DESIGN IS SENSOR SWITCH N LIGHT, APPROVED ALTERNATIVE MANUFACTURERS ARE LUTRON AND WATTSTOPPER. SOFTWARE TO INCLUDE GRAPHIC FLOOR PLANS INDICATING ZONES, DEVICES, WITH DROP DOWN WINDOWS FOR TIME CLOCK SCHEDULING. LIGHTING CONTROLS SUPPLIER MUST PROVIDE FACTORY AUTHORIZED START-UP AND OWNER TRAINING. OWNER TRAINING TO INCLUDE TWO TIME BLOCKS. ONE FOUR HOUR TRAINING PRIOR TO OWNER ACCEPTANCE AND A SECOND FOUR HOUR BLOCK AFTER THREE TO SIX MONTHS OCCUPANCY AS DETERMINED BY OWNER AND ENGINEER.



nLight Eclypse, 120-277 VAC, 14 1/4"H x 14 1/4"W x 4"D metal enclosure (nECY ENC with Max 50W power supply) for ECLYPSE EnergySyte or nLight ECLYPSE., Includes: NGWY2 GFX & PS 150 power supply with CAT5 cable. (Verify exact location)

LIGHTING CONTROL MASTER



NOTE:
VS ARE STANDALONE ONLY WITH NO NETWORK CONNECTINO REQUIRED

NOTE: EXTERIOR LIGHTING SHALL BE CONTROLLED BY NPP16 POWER PACKS PER ZONES AS INDICATED ON EU100. PROVIDE POWER PACKS FOR EACH ZONE AND CONNECT PER MANUFACTURER'S RECOMMENDATIONS.

TYPICAL NETWORK

LIGHTING CONTROL DIAGRAM 04

SCALE: NONE

SEE LIGHTING CONTROL GENERAL NOTES AND SEQUENCES LOCATED ON DRAWING E-0 WHICH RELATE TO THESE DIAGRAMS

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MEP PROJECT #: 19150

ELECTRICAL DETAILS, DIAGRAMS

Addition & Renovation
OVEC Head Start
7304 Dixie Highway
Louisville, KY 40258

DATE: 11.06.2020
DRAWN BY: RAB
CHECKED BY: KAP
REVISIONS:

2019-52.06

E-3

208Y/120V 3-Phase 4-Wire LIGHTING PANEL — Name: P1

Mains: 400A Main molded case breaker — Min Sym IC: 10000
Trim: Surface — Door: Yes — Fed from: UTILITY
Neutral: S/N — Provide UL SE Label
Ground bar: As required for service entrance equipment — Feeder: Note 1

CIR	DESCRIPTION	CONDUIT	PHASE	NEUT	GND	TRIP	POLES	PHASE LOADS A	PHASE LOADS B	PHASE LOADS C	POLES	TRIP	CONDUIT	PHASE	NEUT	GND	DESCRIPTION	CIR
1	LTG.Class & Off.	3/4" C	#12	#12	#12	20	1	1091										
								100			1	20	3/4" C	#12	#12	#12	Exterior Ltg	2
3	LTG.Class Rm	3/4" C	#12	#12	#12	20	1		1478									
								500			1	20	–				Spare	4
5	LTG.Entry, Corr.	3/4" C	#12	#12	#12	20	1			305								
									500		1	20	–				Spare	6
7	Rec.Ext,RR,Entry	3/4" C	#12	#12	#12	20	1	900										
								1080			1	20	3/4" C	#12	#12	#12	Rec. Corridors	8
9	Rec.HS-8	3/4" C	#12	#12	#12	20	1	720										
								900			1	20	3/4" C	#12	#12	#12	Rec. Office	10
11	Rec.HS-8	3/4" C	#12	#12	#12	20	1		360									
									720		1	20	3/4" C	#12	#12	#12	Rec. Office	12
13	Rec.HS-8	3/4" C	#12	#12	#12	20	1	540										
								900			1	20	3/4" C	#12	#12	#12	Rec. Office	14
15	Rec.HS-15	3/4" C	#12	#12	#12	20	1		540									
									720		1	20	3/4" C	#12	#12	#12	Rec. Office	16
17	Rec.HS-15	3/4" C	#12	#12	#12	20	1			720								
										540	1	20	3/4" C	#12	#12	#12	Rec. HS-8	18
19	Rec.HS-15	3/4" C	#12	#12	#12	20	1	540										
								540			1	20	3/4" C	#12	#12	#12	Rec. HS-8	20
21	Rec.HS-8	3/4" C	#12	#12	#12	20	1		540									
									540		1	20	3/4" C	#12	#12	#12	Rec. HS-8	22
23	Rec.HS-8	3/4" C	#12	#12	#12	20	1			540								
										1080	1	20	3/4" C	#12	#12	#12	Rec. IT room	24
25	Rec.HS-8	3/4" C	#12	#12	#12	20	1	360										
								720			1	20	3/4" C	#12	#12	#12	Rec. IT room	26
27	Rec.WASHER	3/4" C	#12	#12	#12	20	1	1500										
								200			1	20	3/4" C	#12	#12	#12	FACP Panel	28
29	REC. DRYER	3/4"	#10	–	#10	30	2		2500									
									540		1	20	3/4" C	#12	#12	#12	Rec. Break Rm	30
31	–		#10				–	2500										
								540			1	20	3/4" C	#12	#12	#12	Rec. Break Rm	32
33	Rec.Laund, Elect	3/4" C	#12	#12	#12	20	1		1260									
									800		1	20	3/4" C	#12	#12	#12	Rec. Refrig.	34
35	Rec.Stor,Rest RM	3/4" C	#12	#12	#12	20	1			540								
										800	1	20	3/4" C	#12	#12	#12	Rec. Refrig.	36
37	Rec.HS-8	3/4" C	#12	#12	#12	20	1	540										
								540			1	20	3/4" C	#12	#12	#12	Rec. HS-17	38
39	Rec.HS-8	3/4" C	#12	#12	#12	20	1		720									
									900		1	20	3/4" C	#12	#12	#12	Rec. HS-17	40
41	Rec.HS-8	3/4" C	#12	#12	#12	20	1			540								
										720	1	20	3/4" C	#12	#12	#12	Rec. HS-17	42
43	Spare	–				20	1	500										
								1800			1	20	3/4" C	#12	#12	#12	Parking lot ltg	44
45	Spare	–				20	1		500									
									500		1	20	3/4" C	#12	#12	#12	Sign Ltg.	46
47	Spare	–				20	1			500								
										500	1	20	3/4" C	#12	#12	#12	Sign Ltg.	48
49	Spare	–				20	1	500										
								4788			3	50	3/4"	#8	–	#10	DOS	50
51	Spare	–				20	1	500										
								4788			–			#8			–	52
53	Spare	–				20	1		500									
									4788		–			#8			–	54
55	HP-1	3/4"	#8	–	#10	50	3	4572										
								4572			3	60	3/4"	#8	–	#10	HP-2	56
57	–		#8				–		4572									
								4572			–			#8			–	58
59	–		#8				–			4572								
										4572	–			#8			–	60
61	DAH-7	3/4"	#12	–	#12	15	2	42										
								42			2	15	3/4"	#12	–	#12	DAH-6	62
63	–		#12				–		41									
									41		–			#12			–	64
65	DAH-8	3/4"	#12	–	#12	15	2			42								
										42	2	15	3/4"	#12	–	#12	DAH-9	66
67	–		#12				–	41										
								41			–			#12			–	68
69	DAH-12	3/4"	#12	–	#12	15	2		42									
									42		2	15	3/4"	#12	–	#12	DAH-5	70
71	–		#12				–			41								
										41	–			#12			–	72
73	DAH-10	3/4"	#12	–	#12	15	2	42										
								42			2	15	3/4"	#12	–	#12	DAH-11	74
75	–		#12				–		41									
									41		–			#12			–	76
77	DAH-2	3/4"	#12	–	#12	15	2			63								
										———	1	——	–				Space only	78
79	–		#12				–	62										
								7060			3	100	1-1/4"	#3	#3	#8	P2	80
81	Spare	–				20	1	500										
								4483			–			#3			–	82
83	Spare	–				20	1			500								
										4259	–			#3			–	84
				Phase load totals				A 34995										
								B	31981									
								C		30825								

Demand load = 78.0 KVA — Demand amps = 217

Notes for P1:

1 Feeder is (1) 3" – 4#500kcmil THWN Copper

208Y/120V 3-Phase 4-Wire LIGHTING PANEL — Name: P2

Mains: 100A MLO — Min Sym IC: 10000
Trim: Surface — Door: Yes — Fed from: P1
Neutral: S/N — Feeder: Note 1
Ground bar: Yes

CIR	DESCRIPTION	CONDUIT	PHASE	NEUT	GND	TRIP	POLES	PHASE LOADS A	PHASE LOADS B	PHASE LOADS C	POLES	TRIP	CONDUIT	PHASE	NEUT	GND	DESCRIPTION	CIR
1	EH-1 Rm 100	3/4"C	#12	#12	#12	20	1	1500										
								42			2	15	3/4"	#12	–	#12	DAH-4	2
3	EH-1 Rm 119	3/4"C	#12	#12	#12	20	1		1500									
								41			–			#12			–	4
5	EH-1 Rm 107.1	3/4"C	#12	#12	#12	20	1			1500								
										18	2	15	3/4"	#12	–	#12	DAH-3	6
7	EH-1 Rm 113	3/4"C	#12	#12	#12	20	1	1500										
								18			–			#12			–	8
9	Water Htr. RCP-2	3/4"C	#12	#12	#12	20	1	200										
								42			2	15	3/4"	#12	–	#12	DAH-1	10
11	SMARTBOARD RM102	3/4"C	#12	#12	#12	20	1		500									
								41			–			#12			–	12
13	SMARTBOARD RM117	3/4"C	#12	#12	#12	20	1	500										
								1500			1	20	3/4"C	#12	#12	#12	EH-1 Rm 116	14
15	Spare	–				20	1		500									
								1500			1	20	3/4"C	#12	#12	#12	EH-1 Rm 117.1	16
17	Spare	–				20	1			500								
									1500		1	20	3/4"C	#12	#12	#12	EH-1 Rm 119	18
19	Space only	–				——	1	———										
								1500			1	20	3/4"C	#12	#12	#12	EH-1 Rm 108	20
21	Space only	–				——	1		———									
									200		1	20	3/4"C	#12	#12	#12	Water Htr.	22
23	Space only	–				——	1			———								
										200	1	20	3/4"C	#12	#12	#12	Water Htr.RCP-1	24
25	Space only	–				——	1	———										
								500			1	20	–				Spare	26
27	Space only	–				——	1		———									
									500		1	20	–				Spare	28
29	Space only	–				——	1			———								
										———	1	——	–				Space only	30
31	Space only	–				——	1	———										
								———			1	——	–				Space only	32
33	Space only	–				——	1		———									
									———		1	——	–				Space only	34
35	Space only	–				——	1			———								
										———	1	——	–				Space only	36
37	Space only	–				——	1	———										
								———			1	——	–				Space only	38
39	Space only	–				——	1		———									
									———		1	——	–				Space only	40
41	Space only	–				——	1			———								
										———	1	——	–				Space only	42
				Phase load totals				A 7060										
								B	4483									
								C		4259								

Demand load = 15.8 KVA — Demand amps = 44

Notes for P2:

1 Feeder is (1) 1-1/4" – 4#3 + #8 GND THWN Copper

COMPUTATION SUMMARY		VOLT-AMPS	DEMAND FACTOR	DEMAND
Continuous lights		0		0
Noncontinuous lights		0		0
Receptacles	– total =	1000		
	1st 10000	1000 *	1.00 =	1000
Resistance heat		202 *	1.00 =	202
Heat motors (seasonal)		0		0
A/C motors (seasonal)		0		0
Motors (nonseasonal)		0		0
Other continuous		0		0
Other noncontinuous		12200 *	1.00 =	12200
Water heat		400 *	1.00 =	400
Kitchen		0		0
User defined		0		0
Spares		2000 *	1.00 =	2000
Largest motor		0		0
TOTAL DEMAND				15802
Minimum feeder ampacity =		15802 / 360.27 =		44A
Minimum feeder overcurrent protection				45A
Feeder overcurrent protection in use				100A
Usable V-A on 100A feeder =	100 * 360.27 minus 15802		=	20225

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KEITH A. PHARIS 20714 — STATE OF KENTUCKY — PROFESSIONAL ENGINEER

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PHARIS ENGINEERING
7110 Austinwood Road
Louisville KY 40214
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MEP PROJECT #: 19150

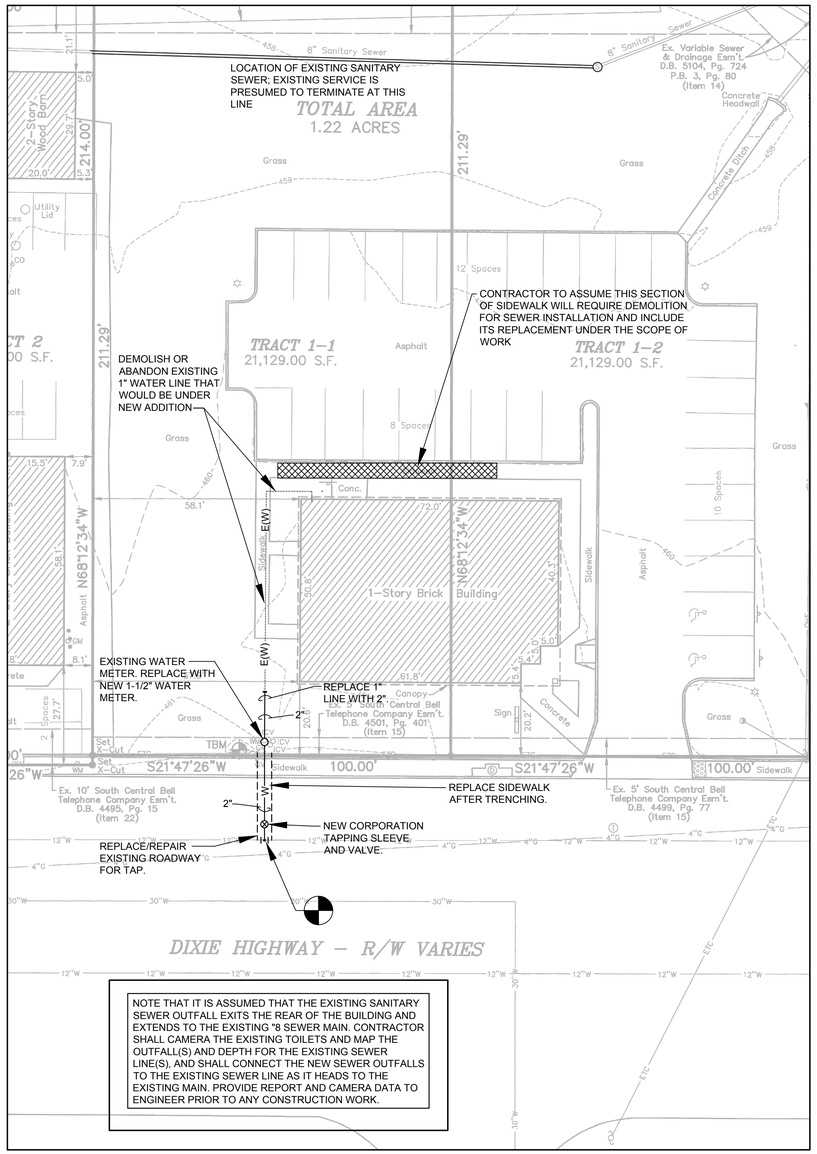
PANEL SCHEDULES

Addition & Renovation
OVEC Head Start
7304 Dixie Highway
Louisville, KY 40258

DATE: 11.06.2020
DRAWN BY: RAB
CHECKED BY: KAP
REVISIONS:

2019-52.06

E-4

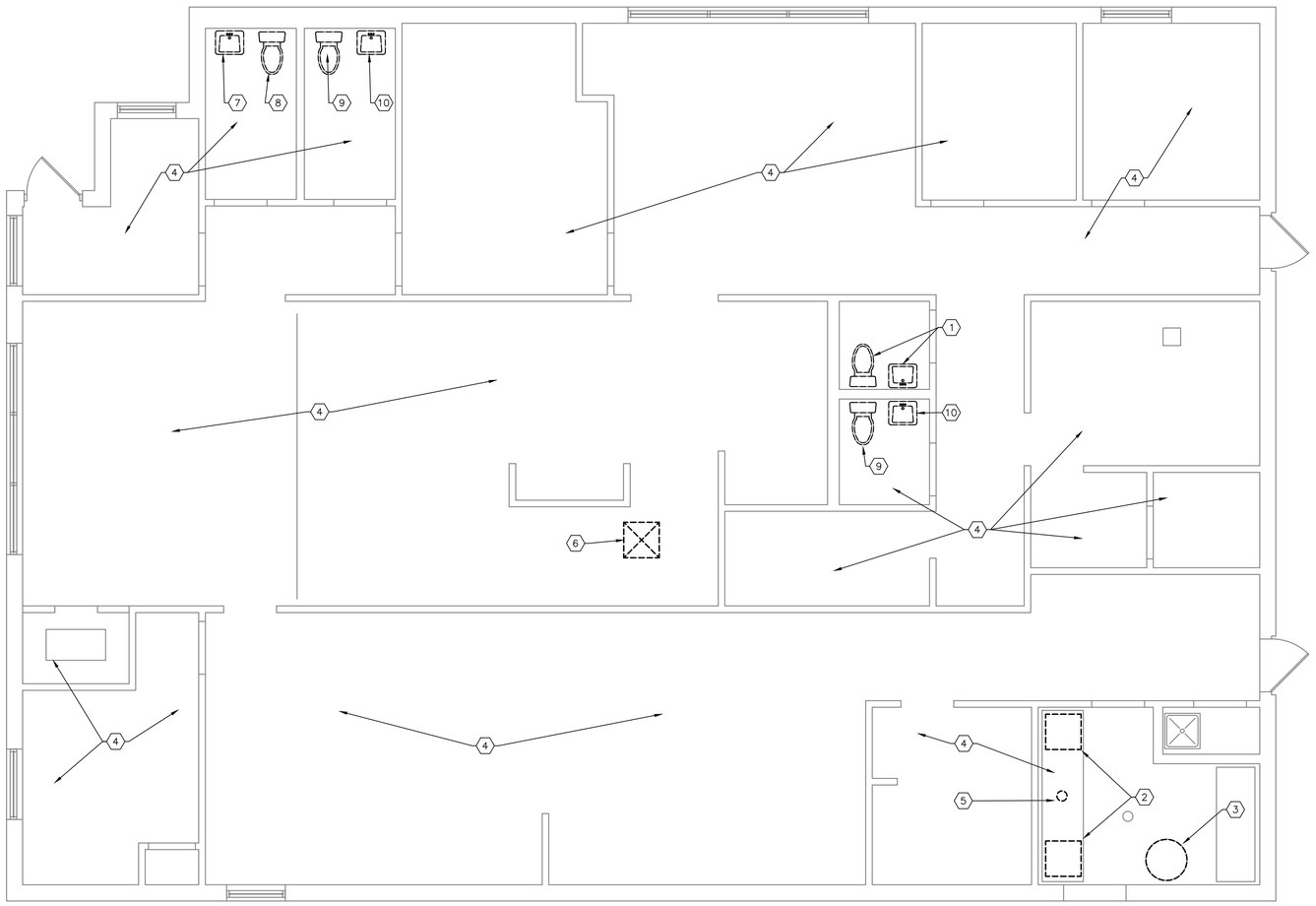


SITE UTILITY PLAN - PLUMBING

1" = 20'-0"

NOTE: ALL WORK WITH RESPECT TO THE NEW WATER SERVICE AND ROAD ENCROACHMENT SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE LOUISVILLE WATER COMPANY AND THE LOUISVILLE METRO PUBLIC WORKS. CONTRACTOR TO FILE ALL REQUIRED SUBMITTALS AND OBTAIN ALL APPROVALS PRIOR TO BEGINNING WORK. RIGHT OF WAY ENCROACHMENT PERMITS SHALL BE OBTAINED. PAY ALL REQUIRED INSPECTION FEES. PROVIDE REQUIRED MOT SIGNAGE, CONES, BARRICADES, FLASHING ARROW BOARDS, ETC. FOR TRAFFIC CONTROL. PROVIDE LOUISVILLE METRO DATES OF PROPOSED WORK FOR ANY FULL OR PARTIAL CLOSURES, WITH PROPOSED TRAFFIC PLANS. PROVIDE SUFFICIENT TEMPORARY STEEL PLATES FOR ROAD OPENINGS WHENEVER WORK HAS PAUSED.

ADHERE TO PERMISSIBLE WORK HOURS. OBTAIN REQUIRED BONDS AND INSURANCE TO OBTAIN ENCROACHMENT PERMISSION.



TAGGED NOTES

1. DEMOLISH EXISTING TOILET AND LAVATORIES AND STRIP PIPING BACK TO THE WALL. REMOVE EXISTING FLOOR FLANGE, CAP BELOW FLOOR AND GROUT OVER CAP.
2. DEMOLISH AIR HANDLING EQUIPMENT, DUCTOWRK AND REMAINING REFRIGERANT PIPING. CAP ANY GAS PIPING TIGHT. REMOVE ALL FLUE VENTING.
3. DEMOLISH WATER HEATER. CAP ANY GAS PIPING TIGHT. REMOVE ALL FLUE VENTING.
4. DEMOLISH ALL EXISTING SUPPLY, RETURN AND EXHAUST AIR DUCTWORK. REMOVE FROM BUILDING.
5. DEMOLISH GAS FLUE VENT THROUGH ROOF AND CAP.
6. REMOVE EXISTING EXHAUST FAN ON ROOF AND CAP ROOF CURB WITH INSULATED CURB CAP.
7. REMOVE EXISTING SINK (AS REQUIRED) AND REPLACE EXISTING SUPPLIED FOR REPLACEMENT SINK.
8. REMOVE EXISTING TOILET AND PREPARE INSTALLATION FOR NEW TOILET.
9. REMOVE EXISTING TOILET AND PREPARE INSTALLATION FOR NEW TOILET. COORDINATE FLOOR FLANGE ROUGH–IN WITH NEW KIDDIE TOILET FIXTURE.
10. REMOVE EXISTING SINK (AS REQUIRED) AND REPLACE EXISTING SUPPLIED FOR REPLACEMENT SINK. SUPPLIED AND SINK DRAIN TO BE LOWERED FOR NEW SINK ELEVATION; REFER TO ARCHITECTURAL ELEVATIONS.

HVAC/PLUMBING DEMOLITION

FLOOR PLAN

GRAPHIC SCALE SUPERSEDES NUMERIC SCALE

0 2 4 8

GENERAL NOTES

1. DEMO ALL EXISTING DUCTWORK, AIR HANDLERS, AND ASSOCIATED HVAC EQUIPMENT.

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MEP PROJECT #: 19150

FLOOR PLAN - HVAC/PLUMBING DEMOLITION

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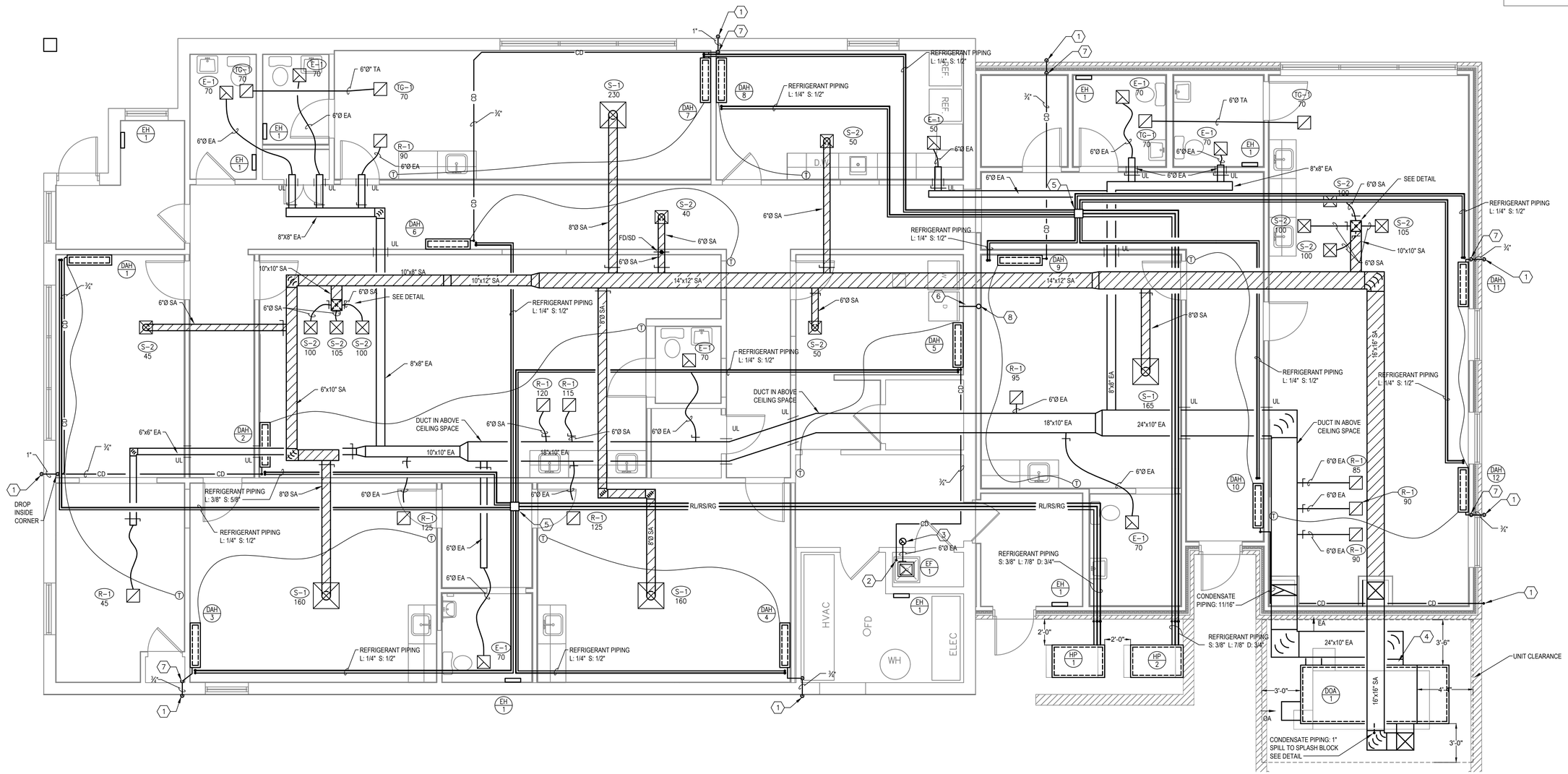

DENOTES DUCT IN ATTIC

HVAC NEW WORK
FIRST FLOOR PLAN

GRAPHIC SCALE SUPERSEDES NUMERIC SCALE

0 2 4 8

TAGGED NOTES

1. SPILL CONDENSATE TO GRADE 6" ABOVE GROUND.
2. SPILL CONDENSATE TO MOP SINK.
3. 6" EXHAUST DUCT UP TO ROOF HOOD.
4. CONNECT 12"x10 EXHAUST DUCT TO RETURN AIR INLET.
5. SIX BRANCH BS BOX.
6. 4" DRYER VENT UP TO ROOF HOOD. VENT STUBBED OUT THROUGH WALL AT 24" AFF.
7. DROP CONDENSATE IN WALL.
8. 4" DRYER VENT UP TO ALUMINUM DRYER

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FLOOR PLAN - HVAC NEW WORK

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M1.1

MECHANICAL SYMBOLS

AFG	ABOVE FINISHED GRADE
FFE	FINISHED FLOOR ELEVATION
AFF	ABOVE FINISHED FLOOR
TYP	TYPICAL
NTS	NOT TO SCALE
FC	FLEXIBLE CONNECTION
EF–#	EXHAUST FAN
FD	FIRE DAMPER
SD	SUCTION DIFFUSER
⬡	TAGGED NOTE
FD/SD	FIRE/SMOKE DAMPER
CO_2	CARBON DIOXIDE SENSOR
CD	CONDENSATE DRAIN LINE
S–# CFM	INDICATES AIR DISTRIBUTION DEVICE SPECIFICATION L = LOUVER T = TRANSFER GRILLE S = SUPPLY DIFFUSER OR REGISTER, R = RETURN GRILLE OR REGISTER, E = EXHAUST GRILLE OR REGISTER) CFM IF INDICATED ON DWG.
SA 20X12	SUPPLY AIR DUCT/DUCT DIM. 20" HORIZ. X 12" VERT. (ONE LINE)
RA	RETURN AIR DUCT (ONE LINE)
EA	EXHAUST AIR DUCT (ONE LINE)
	TRANSITION – RECT. TO ROUND
	TRANSITION – RECT. TO RECT. OR ROUND TO ROUND.
	TRANSITION – FROM OR TO EQUIPMENT TO DUCT SIZE INDICATED.
	VOLUME DAMPER (MANUAL)
	BOWDEN VOLUME DAMPER
UL	U.L. LISTED PENETRATION
	SUPPLY, RETURN, EXHAUST GRILLE
T	THERMOSTAT OR REMOTE SENSOR
	UNION
	LIMIT OF DEMOLITION
	CONNECT TO EXISTING
SD	DUCT MOUNTED SMOKE DETECTOR
	MECHANICAL EQUIPMENT DESIGNATOR
= RS/RL =	SET OF REFRIGERANT LINES
	DENOTES DUCT IN ATTIC

MECHANICAL GENERAL NOTES

1. EACH CONTRACTOR, PROPOSER, SUPPLIER AND/OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO ENSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER VOLTAGE AND CURRENT CHARACTERISTICS TO AVOID CONFLICT WITH ANY OTHER BUILDINGS SYSTEMS.

2. ALL OFFSETS, TURNS, FITTINGS, TRIM–, DETAIL, ETC., MAY NOT BE INDICATED, BUT SHALL BE PROVIDED AS REQUIRED. ADDITIONAL ALLOWANCES SHALL BE INCLUDED FOR SAME IN EACH PROPOSERS BID.

3. OBSERVE ALL APPLICABLE CODES, RULES, AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNCIL, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, OSHA, COMMONWEALTH OF KENTUCKY, ETC.)

4. UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL EQUIPMENT AND/OR MATERIALS WITHIN OCCUPIED SPACES OR EXPOSED TO VIEW ON THE BUILDING EXTERIOR SHALL BE PRIMED AND FINISHED WITH COLOR AS CHOSEN BY ARCHITECT.

5. UNLESS OTHERWISE SPECIFIED OR INDICATED, INSTALL DIFFUSERS, REGISTERS, GRILLES, SMOKE DETECTORS AND OTHER CEILING MOUNTED APPURTENANCES IN A SYMMETRICAL PATTERN. UNLESS SPECIFICALLY INDICATED OTHERWISE, REFER TO THE ARCHITECT'S REFLECTED CEILING PLAN AS APPLICABLE.

6. ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTORS' EXPENSE.

7. DEVIATIONS IN SIZES, CAPACITIES, FIT, FINISH, ETC., FOR EQUIPMENT FROM THAT PRIME SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMODATE A DEVIATION, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.

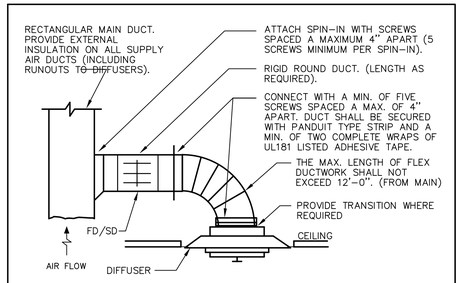
8. DO NOT SCALE FROM DRAWINGS, AS PRINTING DISTORTS SCALE. WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONS SUPPLIED TO THE CONTRACTOR.

9. ALL ELECTRICAL COMPONENTS OR EQUIPMENT SHALL BE LABELED BY UNDERWRITER'S LABORATORIES, OR OTHER APPROVED LISTING AGENCY.

10. ALL SUPPORT FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE, FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES OR EQUIPMENT. HOLD ALL ABOVE CEILING EQUIPMENT TIGHT TO STRUCTURAL SUPPORTING ROOF DECK.

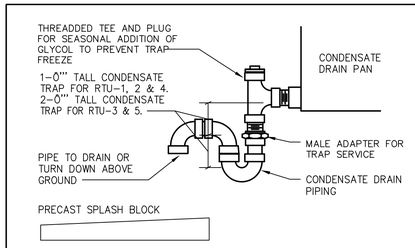
11. WHERE PENETRATING ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE SUCH PENETRATIONS IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR INTEGRITY IN ANYWAY. COORDINATE ALL SUCH PENETRATIONS WITH THE ROOFING MANUFACTURER.

12. CONTRACTOR TO PROVIDE TURNING VANES IN ALL MAIN DUCT 45\90 DEGREE TURNS. THIS APPLIES TO ALL S.A. & R.A. DUCTS.



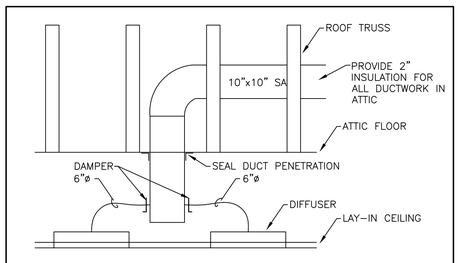
TYPICAL ROUND SUPPLY AIR BRANCH DUCT

NO SCALE



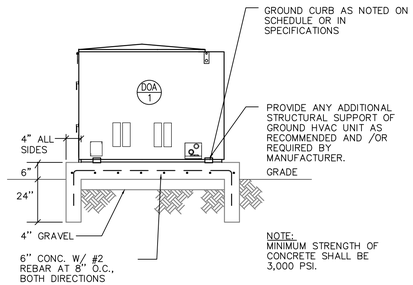
CONDENSATE DRAIN PIPING

NO SCALE



SUPPLY DUCTWORK IN ATTIC DETAIL

NO SCALE



GROUND HVAC UNIT SUPPORT PAD DETAIL

NO SCALE

DUCTLESS VARIABLE REFRIGERANT FLOW OUTDOOR UNITS

MARK	DAIKIN MODEL	TOTAL COOLING (BTUH)	NOMINAL TONNAGE	CAPACITY CONTROL RANGE	AMBIENT OUTDOOR TEMPERATURE	TOTAL HEATING CAPACITY (MBH)	REFRIGERANT	ELECTRICAL MCA	ELECTRICAL MOCP	ELECTRICAL VOLTS/PH	REMARKS
HP–1	REYQ96XATJA	77,034	8	106%	96	73,143	R410A	38.1	45	208/3	1,3,4,6,7
HP–2	REYQ96XATJA	77,297	8	106%	96	73,351	R410A	38.1	45	208/3	1,3,4,6,7

DUCTLESS INDOOR AIR HANDLERS

MARK	DAIKIN MODEL	STYLE	AIRFLOW (CFM)	TOTAL COOLING (BTUH)	SENSIBLE COOLING (BTUH)	TOTAL HEATING (BTUH)	REFRIGERANT	ELECTRICAL MCA	ELECTRICAL MOCP	ELECTRICAL VOLTS/PH	REMARKS
DAH–1	FXAQ12PVJU	WALL MOUNTED	290	10,299	7,593	14,000	R410A	0.4	15	208/1	1,5
DAH–2	FXAQ24PVJU	WALL MOUNTED	635	20,632	14,984	27,500	R410A	0.6	15	208/1	1,2,5
DAH–3	FXAQ18PVJU	WALL MOUNTED	500	15,465	11,478	21,000	R410A	0.4	15	208/1	1,5
DAH–4	FXAQ18PVJU	WALL MOUNTED	500	15,465	11,478	21,000	R410A	0.4	15	208/1	1,5
DAH–5	FXAQ12PVJU	WALL MOUNTED	290	10,299	7,593	14,000	R410A	0.4	15	208/1	1,2,5
DAH–6	FXAQ12PVJU	WALL MOUNTED	290	10,299	7,593	14,000	R410A	0.4	15	208/1	1,2,5
DAH–7	FXAQ18PVJU	WALL MOUNTED	500	15,465	11,478	21,000	R410A	0.4	15	208/1	1,5
DAH–8	FXAQ07PVJU	WALL MOUNTED	260	6,433	5,441	8,700	R410A	0.3	15	208/1	1,5
DAH–9	FXAQ18PVJU	WALL MOUNTED	500	15,465	11,478	21,000	R410A	0.4	15	208/1	1,2,5
DAH–10	FXAQ07PVJU	WALL MOUNTED	260	6,433	5,441	8,700	R410A	0.3	15	208/1	1,2,5
DAH–11	FXAQ18PVJU	WALL MOUNTED	500	15,465	11,478	21,000	R410A	0.4	15	208/1	1,5
DAH–12	FXAQ18PVJU	WALL MOUNTED	500	15,465	11,478	21,000	R410A	0.4	15	208/1	1,5

REMARKS:
1. PROVIDE UNIT WITH SUCTION AND DISCHARGE SERVICE VALVES.
2. PROVIDE OPTIONAL CONDENSATE PUMP.
3. PROVIDE VIBRATION ISOLATION COMPRESSOR.
4. PROVIDE CRANKCASE HEATER.
5. CLEANABLE AIR FILTER.
6. AUTOMATIC DEFROST CONTROL.
7. PROVIDE FILTER, DRYER, AND SIGHT GLASS ON RL PIPE.

REGISTERS, GRILLES AND DIFFUSERS

MARK	E.H. PRICE MODEL	TYPE	NOMINAL SIZE	MOUNTING	CFM MAX.	PD MAX.	THROW @ 100 FPM	OBD	FINISH	NC MAX.	REMARKS
S–1	ASPD SERIES ALUMINUM	SQUARE PLAQUE CEILING DIFFUSER	24"x24" 8"ø NECK	LAY–IN	230	0.03"	4	YES	CHOSEN BY ARCHITECT	22	1,2
S–2	ASPD SERIES ALUMINUM	SQUARE PLAQUE CEILING DIFFUSER	12"x12" 6"ø NECK	LAY–IN	120	0.06"	4	YES	CHOSEN BY ARCHITECT	22	1,2,3
R–1	MODEL 70 ALUMINUM	LOUVER FACED RETURN GRILLE	12"x12"	LAY–IN	270	0.071"	–	YES	CHOSEN BY ARCHITECT	21	2,4
R–2	MODEL 70 ALUMINUM	LOUVER FACED RETURN GRILLE	24"x24"	LAY–IN	840	0.023"	–	–	CHOSEN BY ARCHITECT	22	2,4
TG–1	MODEL 70 ALUMINUM	LOUVER FACED RETURN GRILLE	12"x12"	LAY–IN	270	0.071"	–	YES	CHOSEN BY ARCHITECT	21	2,4
E–1	MODEL 70 ALUMINUM	LOUVER FACED RETURN GRILLE	12"x12"	LAY–IN	270	0.071"	–	YES	CHOSEN BY ARCHITECT	21	2,4

REMARKS:
1. PROVIDE DUCT TRANSITION TO GRILLE/DIFFUSER AS REQUIRED.
2. IF ARCHITECT DOES NOT CHOOSE A COLOR, THEN COLOR SHALL BE OFF–WHITE OR AS INDICATED ON PLANS.
3. PROVIDE MARGINS TO FINISH AS A 24"x12" LAY–IN.
4. PROVIDE PLENUM BOX, FULL SIZE OF AIR DEVICE, 12" DEEP, DUCT TO TAP INTO SIDE. WHERE THE INSIDE OF PLENUM BOXES ARE VISIBLE FROM THE FLOOR, THEY SHALL BE PAINTED FLAT BLACK.
5. PROVIDE MANUFACTURERS INTEGRAL BALANCING DAMPER IN DEVICE TO ALLOW BALANCING OF AIR DEVICE THROUGH FACE OF DEVICE.
6. BLADES PARALLEL TO THE SHORT DIMENSION.

VENTILATING FANS

MARK	GREENHECK MODEL NO.	MOUNTING	FAN DATA CFM	FAN DATA DRIVE	FAN DATA E.S.P.	FAN DATA SONES	ELECTRIC DATA HP	ELECTRIC DATA VOLTS/ø	REMARKS
EF–1	SP–B80	CEILING	50	DIRECT	0.32	1.3	FRACT.	115/1	1,2

REMARKS:
1. PROVIDE NEC COMPLIANT STARTER AND DISCONNECT SWITCH. FUSE PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE NEOPRENE VIBRATION ISOLATORS.

ELECTRIC HEATERS

MARK	MARKEL SERIES	HEATER TYPE	MOUNTING	TYPICAL LOCATION	CFM	kW	ELECTRICAL FLA	ELECTRICAL MFS	ELECTRICAL VOLTS/ø	REMARKS
EH–1	E4315TRPW	FAN FORCED	WALL	BATH,MECH RM	70	1.5	12.5	–	120/1	1,3,6,8

REMARKS:
1. FURNISH WITH UL LISTED AND NEC COMPLIANT DOSCONNECT MEANS.
2. PROVIDE MANUFATURER'S INTEGRAL TAMPER–PROOF THERMOSTAT.
3. PROVIDE SURFACE MOUNTING BOX–FRAME.
4. FINISH SHALL BE STANDARD BAKED ENAMEL WITH BRUSHED ALUMINUM PICTURE FRAME TRIM.
5. PROVIDE UNIT WITH LOW VOLTAGE THERMOSTAT AND CONTROLS COMPONENTS TO CONTROL MULTIPLE PANELS.
6. COORDINATE COLOR SELECTION WITH ARCHITECT AND OWNER.
7. PROVIDE TRIM AS NEEDED BY MANUFACTURER FOR RECESSED LAY–IN CEILING INSTALLATION.
8. HEATERS TO HAVE INTEGRAL THERMAL OVERLOAD PROTECTION.

DEDICATED OUTDOOR AIR UNIT

MARK	GREENHECK MODEL	SUPPLY FAN PERFORMANCE TOTAL OA CFM	ESP, IN. WG.	HP	MOTOR QUANTITY	EXHAUST FAN PERFORMANCE TOTAL EA CFM	ESP, IN. WG.	HP	MOTOR QUANTITY	TOTAL CAP. MBH	SENS. CAP. MBH	COOLING PERFORMANCE OUTSIDE AIR (DB/WB)	SUPPLY AIR (DB/WB)	RETURN AIR (DB/WB)	HEATING PERFORMANCE OUTSIDE AIR (DB)	SUPPLY AIR (DB)	RETURN AIR (DB)	HOT GAS REHEAT INPUT (MBH)	FURNACE CONTROL	HOT GAS REHEAT CAPACITY	LAT	ELECTRICAL VOLTS/PHASE	MCA	MOP	WEIGHT LBS	REMARKS
DOA–1	ERCH–20–15H–5P	1610	0.70	1.5	1	1520	0.70	1.5	1	61.2	44.2	96/76	79/65.9	73/60.7	0	49.7	70	100	4:1 MODULATING	24.5 MBH	68.1	208/3	39.9	50	2026	2,5,6,7,8,9,10,12,13,16,17

OA DESIGN CONDITIONS: 94°F DB/74°F WB SUMMER, 3°F DB WINTER

REMARK:
1. PROGRAMMED VFD FOR SUPPLY FAN
2. OUTSIDE AIR DAMPER W/MODULATING ACTUATOR
3. RETURN AIR DAMPER W/MODULATING ACTUATOR
4. SIGHTGLASSES
5. COMPRESSOR ISOLATION VALVES
6. SINGLE POINT WIRING
7. FAN ISOLATION
8. 5 YEAR COMPRESSOR WARRANTY
9. 1" ALUMINUM HOOD FILTERS
10. MERV 8 FILTERS
11. 4" MERV 14 SUPPLY FILTERS
12. HOT GAS REHEAT
13. NON–FUSED DISCONNECT
14. GFCI OUTLET
15. BACnet MSTB
16. ACTIVE HEAD PRESSURE CONTROL 1.0
17. CONDENSATE DRAIN TRAP.
18. 2" FOAM–INJECTED DOUBLE–WALL PANELS AND ACCESS DOORS (22 GA. GALVANIZED INTERIOR/22 GA. PAINTED EXTERIOR)

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MEP PROJECT #: 19150

SCHEDULES & DETAILS - HVAC

Addition & Renovation
OVEC Head Start
7304 Dixie Highway
Louisville, KY 40258

DATE: 11.06.2020
DRAWN BY: SSG
CHECKED BY: CME
REVISIONS:

2019-52.06

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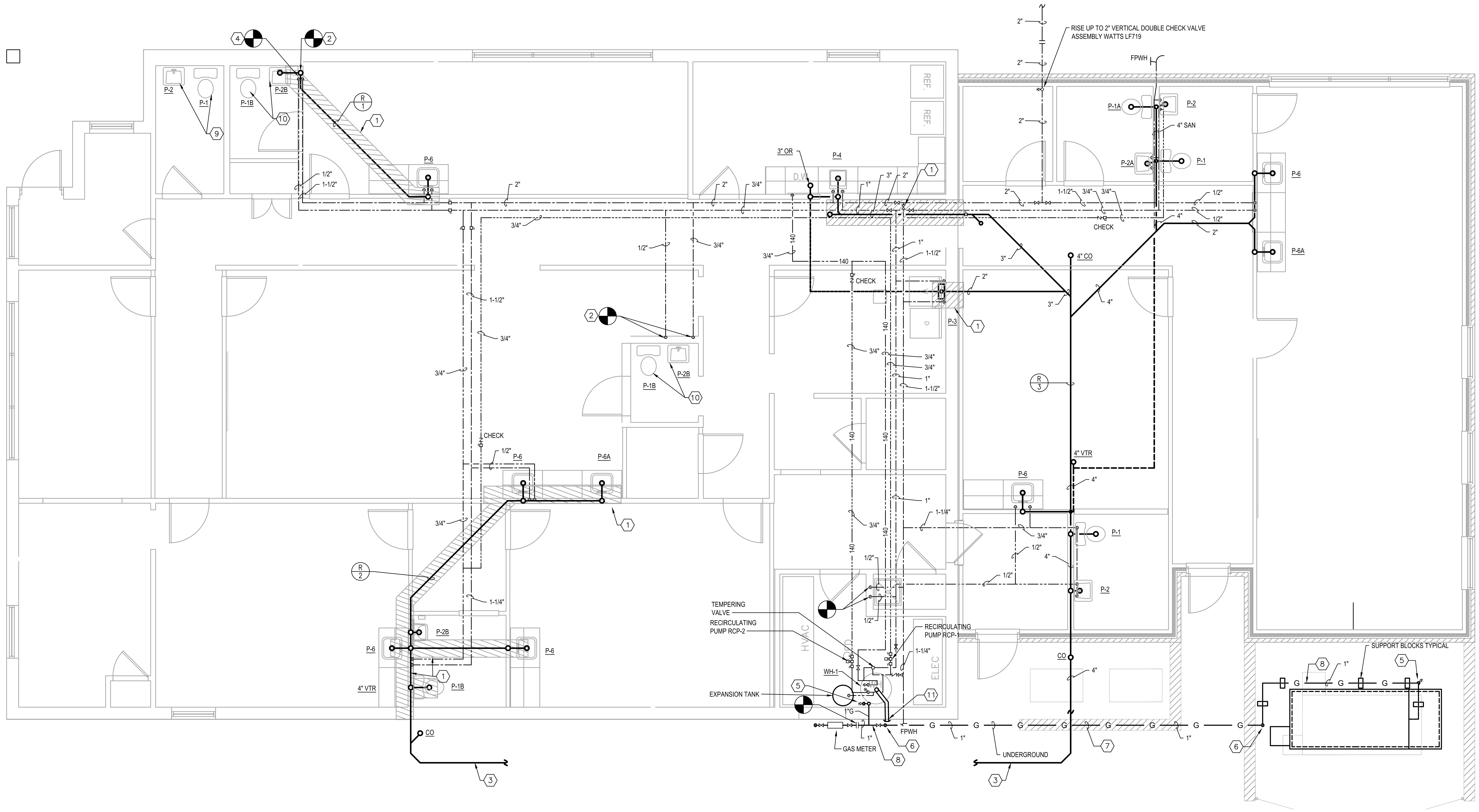

FLOOR PLAN - PLUMBING NEW WORK

1/4" = 1'-0"

– CONNECT TO EXISTING

TAGGED NOTES

1. HATCHING INDICATES FLOOR TRENCHING FOR NEW SEWER SYSTEMS.
2. DROP NEW WATER PIPING DOWN IN WALL TO BACK FEED EXISTING PLUMBING FIXTURES. FLUSH ALL PIPING AFTER CONENCTION TO EXISTING PIPING.
3. PIPE NEW SEWER LINES TO EXISTING SANITRY SEWER OUTFALL(S). AS PER SHEET DM1.1, CONTRACTOR TO DETERMINE EXISTING OUTFALLS AND DEPTHS BY CAMERA. EXTEND NEW PIPING TO OUTFALLS AND CONNECT TO LOCATION WITH ADEQUATE ELEVATION.
4. CONNECT NEW SINK DRAIN LINE TO EXISTING DRAINGE INFRASTRUCTURE UNDERGROUND.
5. PROVIDE GAS EQUIPMENT CONNECTION WITH SHUT–OFF VALVE, DIRT LEG, AND, ELECTRIC UNION.
6. PROVIDE TRANSITION BETWEEN UNDERGROUND THERMOPLASTIC PIPING AND ABOVE GROUND STEEL WITH ANDDELESS RISER.
7. 1" THERMOPLASTIC GAS PIPING UNDERGROUND. PROVIDE #8 COPPER TRACER WIRE.
8. PAINT EXTERIOR STEEL GAS PIPING WITH (2) COATS OF A HIGH ZINC CONTENT EXTERIOR PAINT.
9. REPLACE FIXTURES WITH NEW AS INDICATED. CONNECT TO EXISTING PIPING.
10. REPLACE FIXTURES WITH NEW AS INDICATED. LOWER EXISTING PIPE CONNECTIONS FOR NEW ELEVATIONS, SEE ARCHITECTURAL. MODIFY CLOSET FLANGE IF THE EXISTING CLOSET FLANGE DOESN'T ALIGN WITH NEW TOILET FIXTURE.
11. 3" DIRECT VENT TO CONCENTRIC WALL TERMINATION PIPE FLUE AND INTAKE PER MANUFACTURER'S DETAILS AND SPECIFICATIONS.

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GENERAL NOTES:

GENERAL:
1. COORDINATE MECHANICAL WORK WITH ELECTRICAL, ARCHITECTURAL, STRUCTURAL, CIVIL AND LANDSCAPE WORK SHOWN ON OTHER CONTRACT DOCUMENTS. PROVIDE ADDITIONAL OFFSETS FOR COORDINATED INSTALLATION WHERE REQUIRED.
2. COORDINATE HVAC, PLUMBING AND FIRE PROTECTION WORK PRIOR TO INSTALLATION. DUCTWORK AND EQUIPMENT ACCESS TAKES PRECEDENCE OVER PIPING FOR AVAILABLE SPACE.
3. WHERE USED, THE TERM “PROVIDE” SHALL MEAN “FURNISH AND INSTALL”.
4. COORDINATE EQUIPMENT CONNECTIONS WITH MANUFACTURERS' CERTIFIED DRAWINGS. COORDINATE AND PROVIDE DUCT AND PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.
5. PROVIDE MISCELLANEOUS STEEL REQUIRED TO ENSURE PROPER INSTALLATION OF MECHANICAL SYSTEMS.
6. LOCATE VALVES, WATER HAMMER ARRESTERS, CLEANOUTS AND SIMILAR COMPONENTS SO THAT THEY ARE ACCESSIBLE. PROVIDE ACCESS DOORS FOR MECHANICAL EQUIPMENT INSTALLED BEHIND WALLS, ABOVE INACCESSIBLE CEILINGS AND BELOW FLOORS. COORDINATE ACCESS DOOR LOCATIONS WITH ARCHITECT/ENGINEER. INSTALL TAG ON CEILING GRID FRAME TO INDICATE LOCATION AND TYPE OF EQUIPMENT THAT REQUIRES MAINTENANCE. PROVIDE 16 GA, STEEL, FLUSH TYPE ACCESS DOOR WITH CONCEALED HINGE AND SLOT SCREWDRIVER TYPE CAM LATCH. PROVIDE FACTORY PRIMED IN PAINTED SURFACE AREAS FOR FIELD PAINTING. PROVIDE STAINLESS STEEL FOR ALL OTHER AREAS. PROVIDE UL LISTED AND LABELED DOOR WHERE FIRE-RESISTANCE RATING IS INDICATED ON DRAWINGS. ACCESS DOOR SHALL BE SIZED SO THAT ADJACENT EQUIPMENT IS ACCESSIBLE. PROVIDE ACUDOR, ELMDOR, MILCOR, OR APPROVED.
7. COORDINATE ATTACHMENTS TO STRUCTURE TO VERIFY THAT ATTACHMENT POINTS ON EQUIPMENT AND STRUCTURE CAN ACCEPT SEISMIC, WEIGHT, AND OTHER LOADS IMPOSED.
8. REFER TO TYPICAL DETAILS PROVIDED IN THIS DWG SET FOR DUCTWORK, PIPING, AND EQUIPMENT INSTALLATION. CONTRACTOR IS RESPONSIBLE FOR CONFORMANCE WITH DETAILS.
9. LOCATIONS AND SIZES OF FLOOR, WALL, AND ROOF OPENINGS SHALL BE COORDINATED WITH OTHER TRADES INVOLVED. INCLUDE IN THE COST OF MECHANICAL WORK, CUTTING, CORING, PATCHING AND PAINTING OF EXISTING WALLS, CEILINGS, FLOORS AND ROOFS AS REQUIRED TO ACCOMMODATE WORK AS INDICATED IN THE MECHANICAL CONTRACT DOCUMENTS, UNLESS SPECIFICALLY SHOWN ON ARCHITECTURAL DRAWINGS.
10. PROVIDE ELASTOMERIC FOAM MATERIAL ON MECHANICAL EQUIPMENT THAT PRESENT A SAFETY HAZARD.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFEKEEPING OF HIS OWN PROPERTY ON THE JOB SITE. OWNER ASSUMES NO RESPONSIBILITY FOR PROTECTION OF PROPERTIES AGAINST FIRE, THEFT AND ENVIRONMENTAL CONDITIONS.
12. CLEAN THE JOB SITE DAILY AND REMOVE FROM THE PREMISES ANY DIRT AND DEBRIS CAUSE BY THE PERFORMANCE OF THE WORK INCLUDED IN THIS CONTRACT. BEFORE SUBSTANTIAL COMPLETION, CLEAN EQUIPMENT, FIXTURES, EXPOSED DUCTS, PIPING AND SIMILAR ITEMS.
13. PROVIDE EQUIPMENT THAT FITS INTO THE SPACE ALLOTTED AND ALLOWS ADEQUATE ACCEPTABLE CLEARANCE FOR INSTALLATION, REPLACEMENT, ENTRY, SERVICING AND MAINTENANCE. COORDINATE WITH OTHER TRADES TO ENSURE NO CONFLICT WITH REQUIRED CLEARANCES.
14. PROVIDE OFFSETS IN PIPING WHERE PLUMBING/PIPING WALL IS LOCATED DIRECTLY ABOVE STRUCTURE. OFFSET PIPING INTO CASEWORK OR SHAFT TIGHT TO WALL AND BACK INTO WALL ONCE BELOW STRUCTURE. REFER TO STRUCTURAL DRAWINGS.
15. BUILDING SPACE IS LIMITED. STRONG ATTENTION TO DETAIL AND CARE MUST BE TAKEN WHEN DEVELOPING SHOP DRAWING SO ROUTING IS COORDINATED WITH OTHER DISCIPLINES.
16. MATERIALS WITHIN PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723.

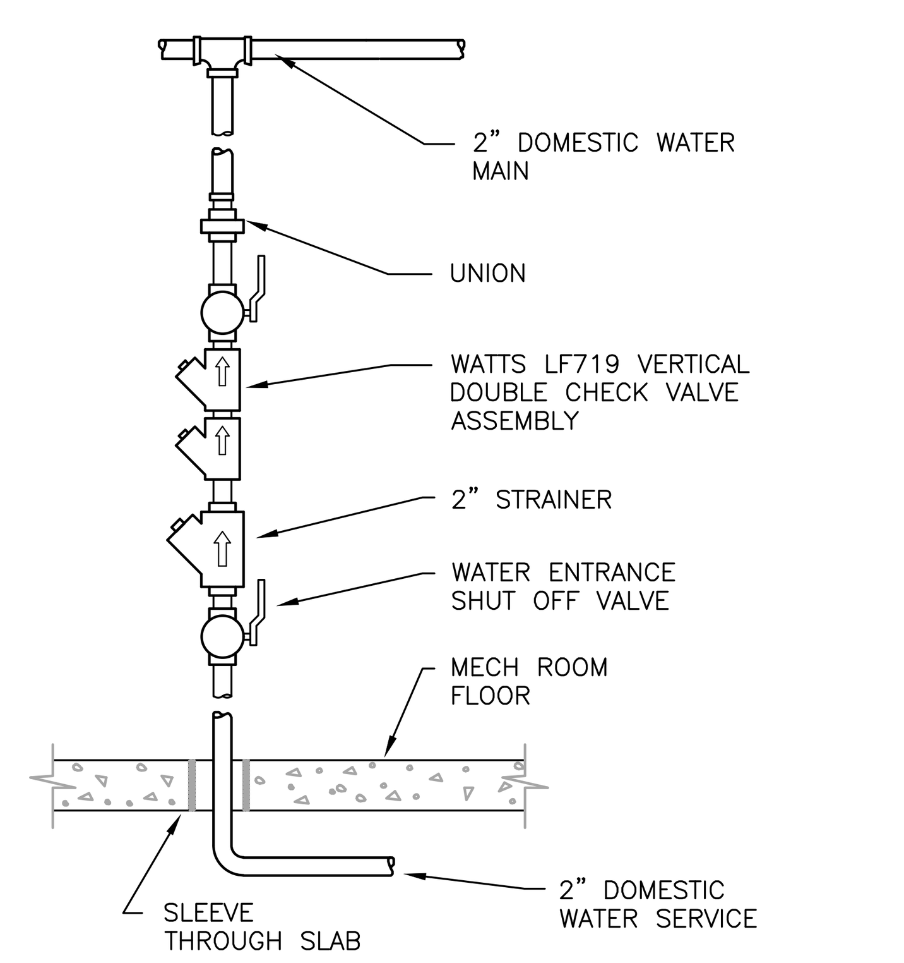
PLUMBING:
1. DOMESTIC WATER TUBE, PIPE, FITTINGS, JOINING MATERIALS, SPECIALTIES, PLUMBING EQUIPMENT, PLUMBING FIXTURES, PLUMBING FITTINGS AND ALL OTHER APPURTENANCES IN CONTACT WITH DRINKING WATER SHALL BE LEAD-FREE EXCEPT THOSE EXPLICITLY EXEMPTED IN SECTION 3874 OF THE SAFE WATER DRINKING ACT. LEAD-FREE SHALL MEAN (A) NOT CONTAINING MORE THAN 0.2 PERCENT LEAD WHEN USED WITH RESPECT TO SOLDER AND FLUX; AND (B) NOT MORE THAN A WEIGHTED AVERAGE OF 0.25 PERCENT LEAD WHEN USED WITH RESPECT TO WETTED SURFACES OF DOMESTIC WATER TUBE, PIPE, FITTINGS, JOINING MATERIALS, SPECIALTIES, PLUMBING EQUIPMENT, PLUMBING FIXTURES, AND PLUMBING FITTINGS.
2. PROVIDE WATER HAMMER ARRESTORS IN DOMESTIC WATER PIPING IN ACCORDANCE WITH PDI-WH 201.
3. PROVIDE LINE SIZE STRAINER UPSTREAM OF EACH BACKFLOW PREVENTER, WATER PRESSURE REDUCING VALVE, CONTROL VALVE, SOLENOID VALVE AND PUMP. PROVIDE SHUTOFF VALVE ON EACH SIDE OF STRAINER.
4. VALVES, EXPANSION FITTINGS/LOOPS, AND PIPING SPECIALTIES SHALL BE FULL SIZE OF PIPE UNLESS NOTED OTHERWISE.
5. PLUMBER RESPONSIBLE FOR TRENCHING SLAB FOR NEW SANITARY AND POURING REPLACEMENT SLAB.

NON-STRUCTURAL MECHANICAL COMPONENTS:
1. THE FOLLOWING ITEMS ARE TAKEN DIRECTLY FROM THE 2012 INTERNATIONAL BUILDING CODE AND FROM THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) STANDARD 7-10. THE CONTRACTOR SHALL REFER TO THE ABOVE FOR ADDITIONAL INFORMATION, EXCEPTIONS, AND FURTHER DESCRIPTIONS. THE CONTRACTOR SHALL ADHERE TO REQUIREMENTS AND AS SUCH, SHALL BE INCLUDED WITHIN BID.
2. 2012 IBC 1613.1 SCOPE: ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND NON-STRUCTURAL COMPONENTS THAT ARE PERMANENTLY ATTACHED TO STRUCTURES AND THEIR SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED AND CONSTRUCTED TO RESIST THE EFFECTS OF EARTHQUAKE MOTIONS IN ACCORDANCE WITH ASCE 7-10, EXCLUDING CHAPTER 14 AND APPENDIX 11A.
3. 2012 IBC 1705.11 CONTRACTOR RESPONSIBILITY: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF A SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM, OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS.
4. HANGERS AND SEISMIC BRACING FOR THE MECHANICAL SYSTEMS SHALL BE DESIGNED AND PROVIDED BY THE MECHANICAL CONTRACTOR. REFER TO CONTRACTOR SHOP DRAWINGS FOR LOCATIONS OF EQUIPMENT AND HUNG MECHANICAL SYSTEMS. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE SUPPORT SYSTEMS AND DESIGN LOADS FOR HUNG MECHANICAL SYSTEMS WITH THE GENERAL CONTRACTOR AND OTHER TRADES THAT MAY BE IMPACTED.

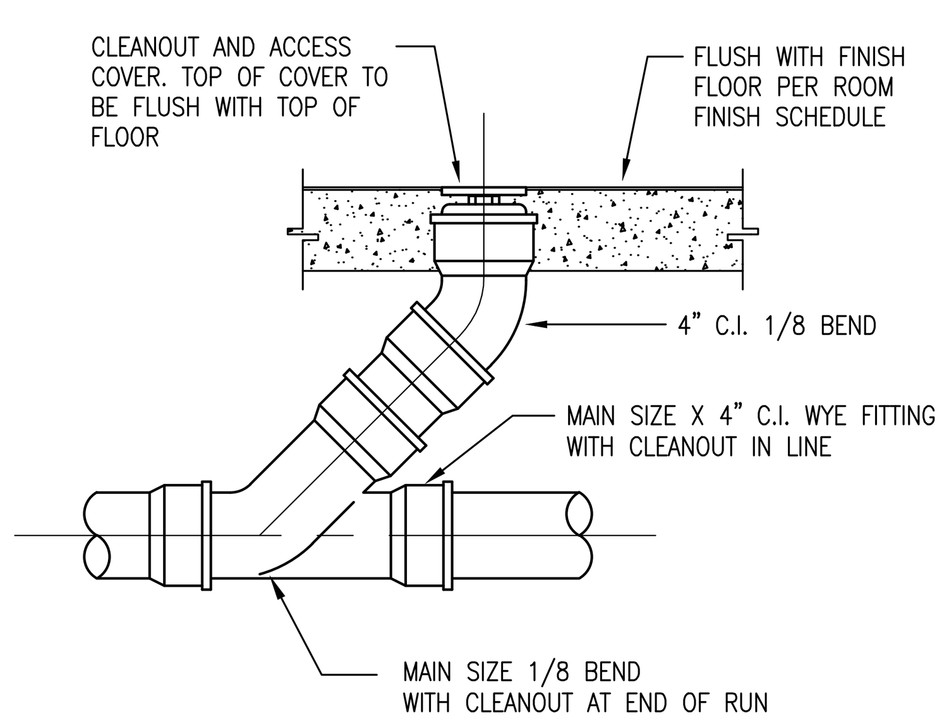
PLUMBING SYMBOLS AND ABBREVIATIONS

NOTE:
SOME SYMBOLS SHOWN IN THIS LEGEND MAY NOT NECESSARILY BE USED FOR THIS PROJECT.

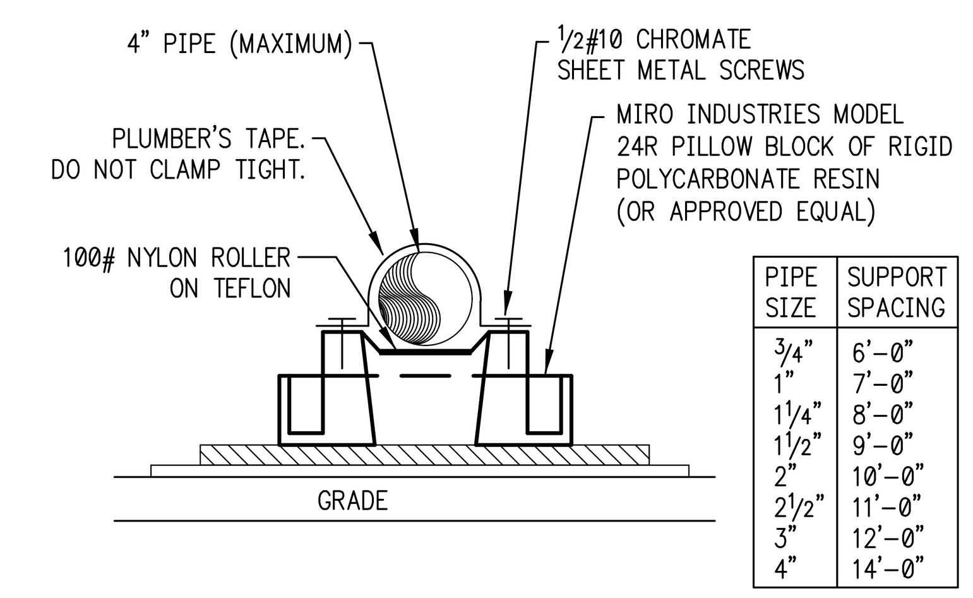
SYMBOL	DESCRIPTION
—X—X—X—X—	DEMOLISH PIPING
—— E(SAN) ——	EXISTING SOIL AND WASTE PIPING
—— SAN ——	SOIL AND WASTE PIPING
	VENT PIPING
	COLD WATER PIPING (CW)
	120 F. HOT WATER PIPING (HW)
	RECIRCULATING HOT WATER PIPING (RHW)
—— 140 ——	140 F. HOT WATER PIPING (HW)
	NATURAL GAS PIPING
VTR	VENT-THRU-ROOF
	UNION
	CHECK VALVE OR BACKFLOW PREVENTER
	BALL VALVE
	VALVE
	CLEANOUT
	CONNECT TO EXISTING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
	POINT OF DEMOLITION
	FREEZE PROOF WALL HYDRANT
	HOSE BIBB



A WATER ENTRANCE DETAIL
NOT TO SCALE



B FLOOR CLEANOUT (CO)
NOT TO SCALE



F GAS PIPING SUPPORT DETAIL
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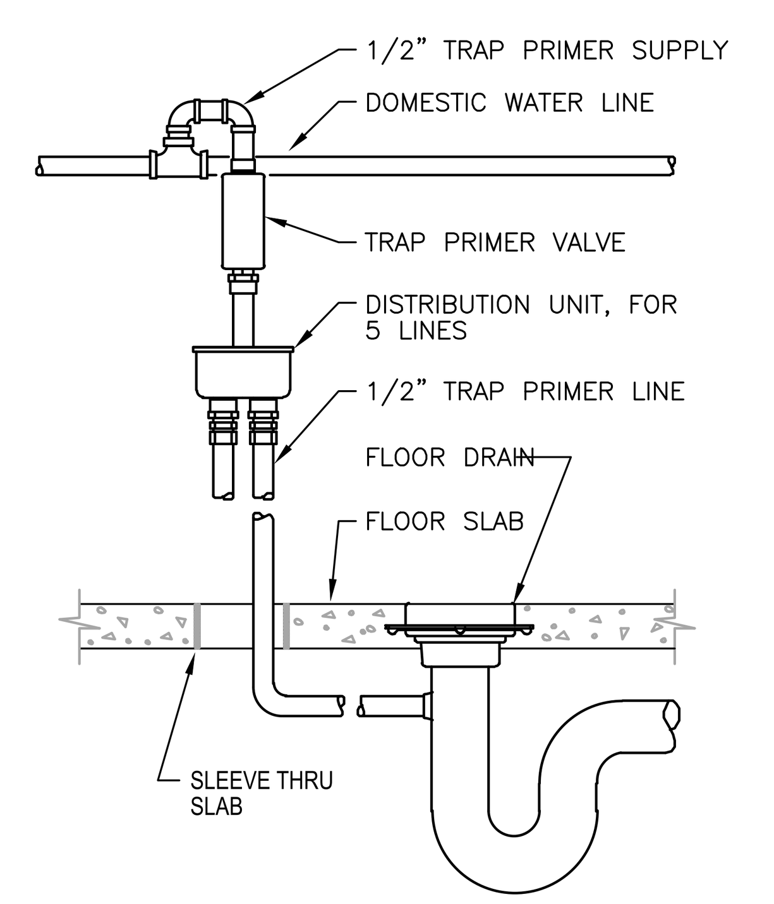
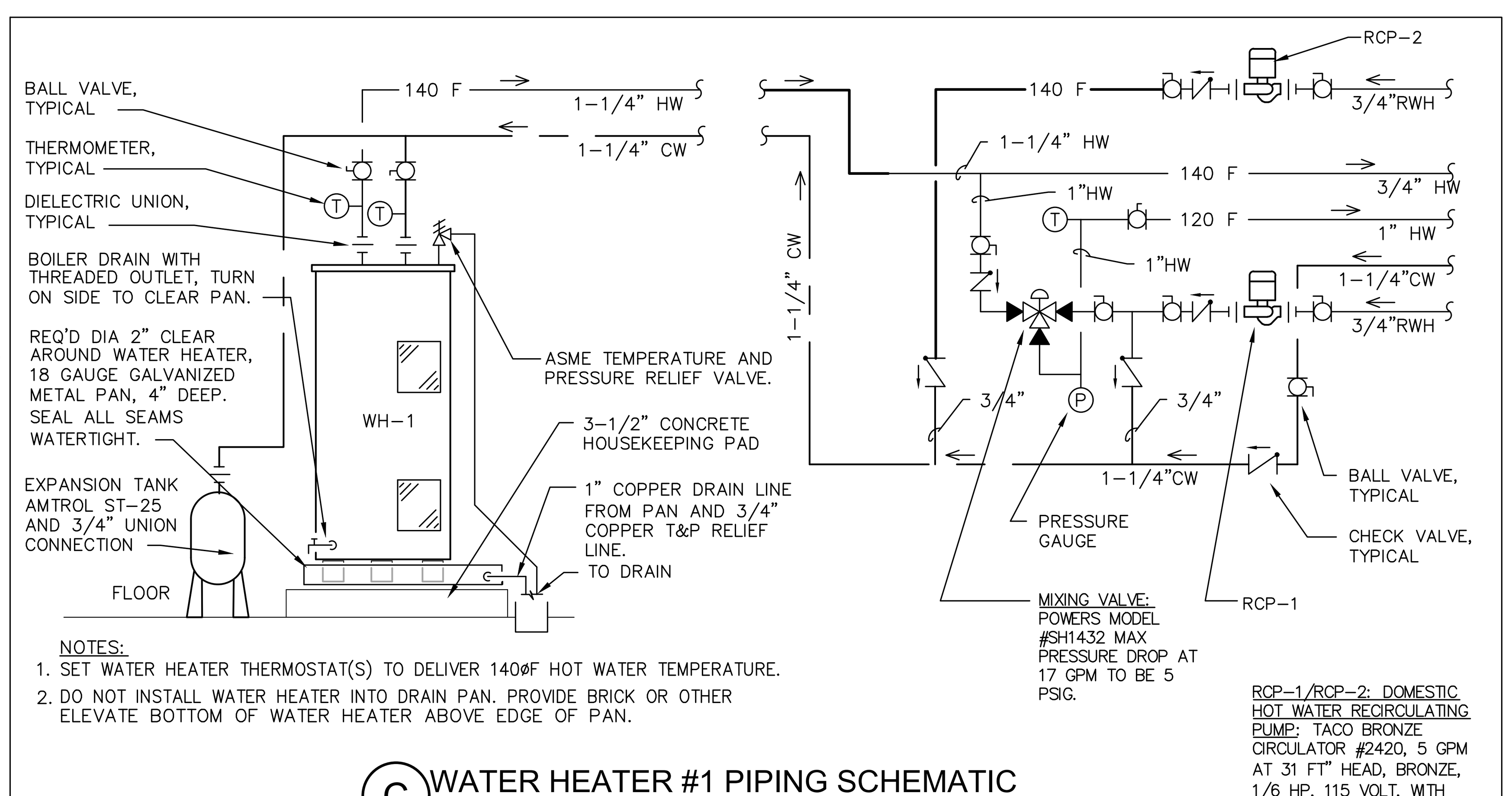
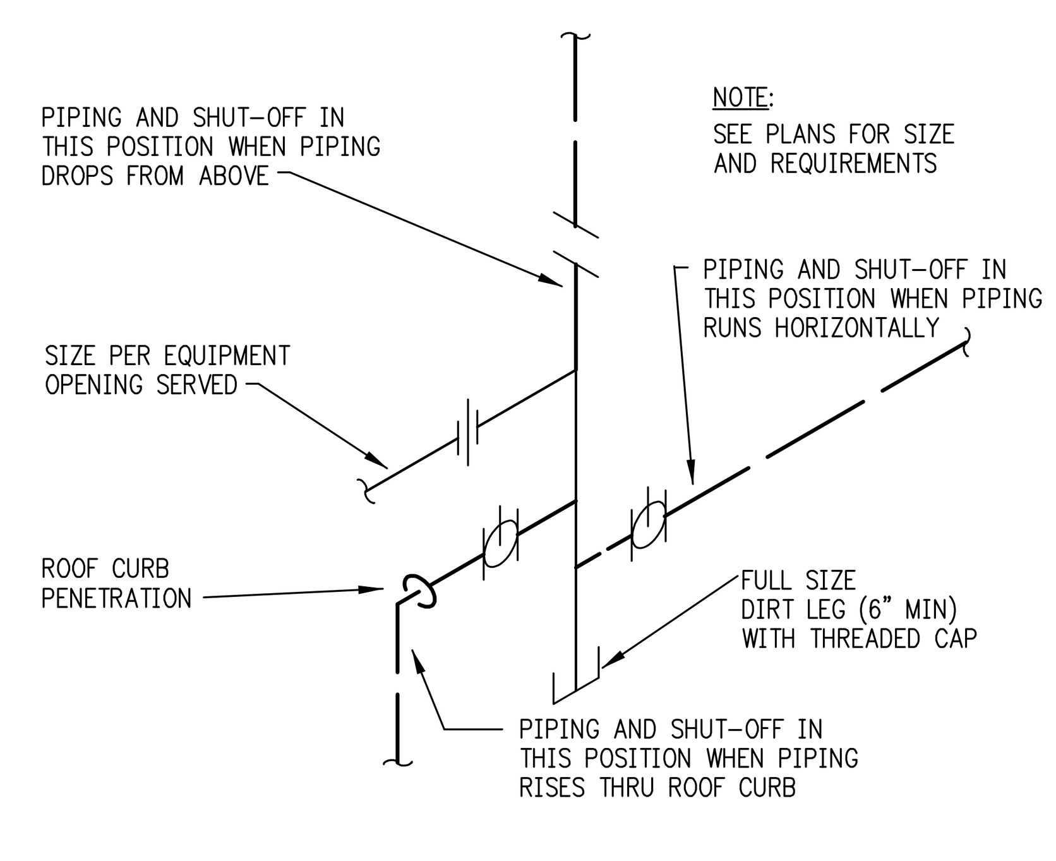


E TRAP SEAL PRIMER DETAIL
NOT TO SCALE



NOTES:
1. SET WATER HEATER THERMOSTAT(S) TO DELIVER 140#F HOT WATER TEMPERATURE.
2. DO NOT INSTALL WATER HEATER INTO DRAIN PAN. PROVIDE BRICK OR OTHER ELEVATE BOTTOM OF WATER HEATER ABOVE EDGE OF PAN.

C WATER HEATER #1 PIPING SCHEMATIC
NO SCALE



D GAS PIPING DIRT LEG DETAIL
NOT TO SCALE

PLUMBING FIXTURE SCHEDULE

MARK	ITEM	HW	CW	WASTE	DESCRIPTION
P-1	WATER CLOSET FLOOR MOUNT SENSOR FLUSH	--	1-1/2"	4"	AMERICAN STANDARD MADERA ELONGATED BOWL WATER CLOSET, FLOOR MOUNTED WITH EXPOSED TOP SPUD SLOAN OPTIMA SENSOR OPERATED FLUSH VALVE #8111-MC-YBYC, BATTERY POWERED, 1.6 GAL/FLUSH. PROVIDE CHURCH 9500C OPEN FRONT SEAT, NO COVER, PROVIDE CHROME SUPPLY AND ESCUTCHEON.
P-2	LAVATORY WALL MOUNT	1/2"	1/2"	1-1/4"	AMERICAN STANDARD LUCERNE #0355.012 WALL HUNG VITREOUS CHINA, 4" CENTERS, FAUCET #2385.004 WITH SINGLE LEVER HANDLE, GRID DRAIN & 0.5 GPM AERATOR. PROVIDE CHROME PLATED P-TRAP AND SUPPLIES.
P-1A	WATER CLOSET FLOOR MOUNT SENSOR FLUSH	--	1-1/2"	4"	AMERICAN STANDARD MADERA #3043.001.020, ADA HEIGHT ELONGATED WATER CLOSET, FLOOR MOUNTED WITH EXPOSED TOP SPUD SLOAN OPTIMA SENSOR OPERATED FLUSH VALVE #8111-MC-YBYC, BATTERY POWERED, 1.6 GAL/FLUSH. PROVIDE CHURCH 9500C OPEN FRONT SEAT, NO COVER, PROVIDE CHROME SUPPLY AND ESCUTCHEON.
P-2A	LAVATORY WALL MOUNT (BARRIER FREE)	1/2"	1/2"	1-1/4"	AMERICAN STANDARD LUCERNE #0355.012 WALL HUNG VITREOUS CHINA, 4" CENTERS, FAUCET #2385.004 WITH SINGLE LEVER HANDLE, GRID DRAIN & 0.5 GPM AERATOR. PROVIDE CHROME PLATED P-TRAP AND SUPPLIES. MOUNT BOTTOM OF APRON AT 31" AFF AND PROVIDE "TRU-BRO" ADA TRAP WRAP FOR BARRIER FREE PROTECTION.
P-1B	WATER CLOSET FLOOR MOUNT	--	1-1/2"	3"	AMERICAN STANDARD BABY DEVERO ELONGATED FLOOR MOUNT FLUSHOMETER BOWL, KIDDIE HEIGHT TOILET. 10-1/2" HEIGHT WITH EXPOSED TOP SPUD. 1.28 GPF MANUAL FLUSH VALVE PROVIDE CHROME SUPPLY AND ESCUTCHEON.
P-2B	LAVATORY WALL MOUNT	1/2"	1/2"	1-1/4"	SAME AS P-2, EXCEPT AT CHILD HEIGHT, SEE ARCHITECTURAL
P-3	WASHER BOX	1/2"	1/2"	2"	20 GA. WASHER BOX WITH GFCI AND 3 WIRE DRYER RECEPTACLE. COORDINATE WITH ARCHITECT FOR COLOR.
P-4	KITCHEN SINGLE BOWL SINK	1/2"	1/2"	1-1/2"	ELKAY ELRAD2521 SINK, 18 GAUGE TYPE 302 SELF RIM, BOWL 25" X 15" X 5-3/8" DEEP, 2 HOLE PUNCH FOR DECK MOUNTED SINGLE LEVEL LKA2438 FAUCET WITH SWING SPOUT, WRISTBLADE HANDLES, AND SPRAY ATTACHMENT. PROVIDE CHROME PLATED P-TRAP AND SUPPLIES.
P-6	SINGLE BOWL SINK, WITH BUBBLER	1/2"	1/2"	1-1/2"	ELKAY DRKAD2220C SINGLE BOWL ADA SINK WITH SINGLE HOLE FAUCET, RIGHT HAND SLOTTED HOLE, LK20858 SINGLE LEVER ADA FAUCET WITH 8" GOOSENECK SPOUT. SINK TO 18 GAUGE TYPE 302 SELF RIM, BOWL 13.5" X 16" X 5-1/2" DEEP, PROVIDE LK1141A BUBBLER, AND WRISTBLADE HANDLES. PROVIDE CHROME PLATED P-TRAP AND SUPPLIES.
P-6A	SINGLE BOWL SINK	1/2"	1/2"	1-1/2"	SAME AS FIXTURE P-6, LESS BUBBLER
OR	OPEN RECEPTACLE	--	--	LINE SIZE	JAY R. SMITH 2646 STRAIGHT SPIGOT ADAPTER WITH TOP AT 2" AFF OR AS REQUIRED. PROVIDE WITH TRAP PRIMER CONNECTION.
CO	CLEANOUT	--	--	LINE SIZE	ZURN 1400 SERIES DUCO CAST IRON BODY WITH ROUND HEAVY DUTY SCORIATED POLISHED BRONZE TOP. ADJUSTABLE TO FLOOR LEVEL AFTER CONCRETE HAS SET.
ECO	EXTERIOR CLEANOUT	--	--	LINE SIZE	ZURN 1400 SERIES DUCO CAST IRON BODY WITH ROUND HEAVY DUTY ENAMEL COATED DUCTILE IRON TOP. ADJUST LEVEL TO CONCRETE APRON. SEE DETAIL THIS SHEET.
FPWH	WALL HYDRANT	--	3/4"	--	WOODFORD MODEL 65C, AUTOMATIC DRAINING, FREEZELESS, WITH VACUUM BREAKER, LOOSE KEY.

DOMESTIC WATER HEATER SCHEDULE

MARK	LOCHINVAR MODEL	TANK SIZE	GPH RECOVERY AT 90°F RISE	GAS INPUT/OUTPUT MBH	HT.	DIA.	ELECTRICAL		REMARKS
							FLA	VOLTS/Ø	
WH-1	PRN050 65ES	50 GAL.	73 GPH	62/45	69"	22"	--	120/1	1, 2, 3

REMARKS:
1. FURNISH WITH ASME TEMPERATURE AND PRESSURE GAUGES.
2. TEMPERATURE CONTROL W/HIGH TEMP CUT OFF
3. POWER DIRECT VENT GAS FIRED WITH SIDEWALL CONCENTRIC 3" PVC FLUE/COMBUSTION AIR INTAKE

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SCHEDULE, NOTES, DETAILS - PLUMB

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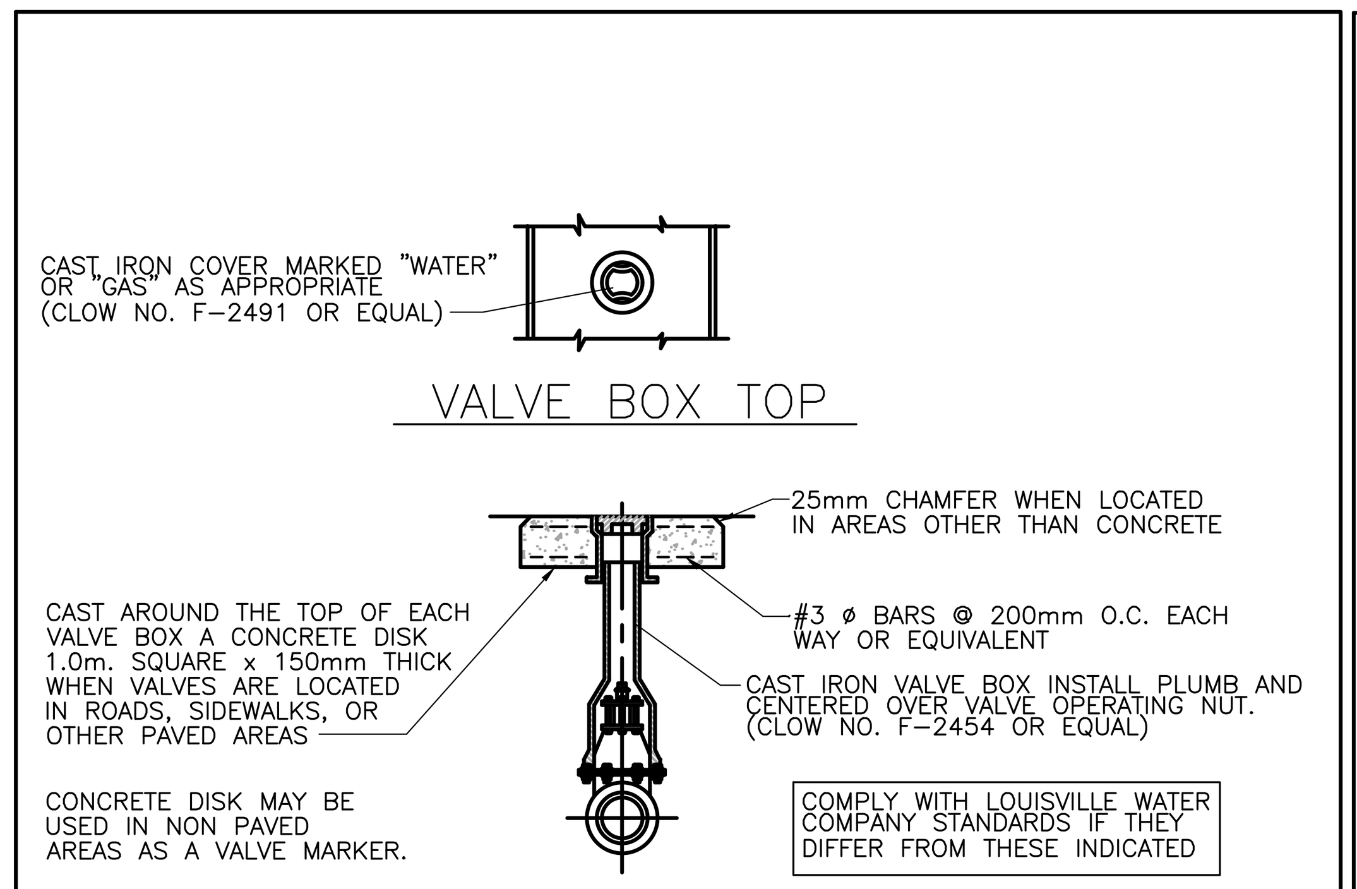
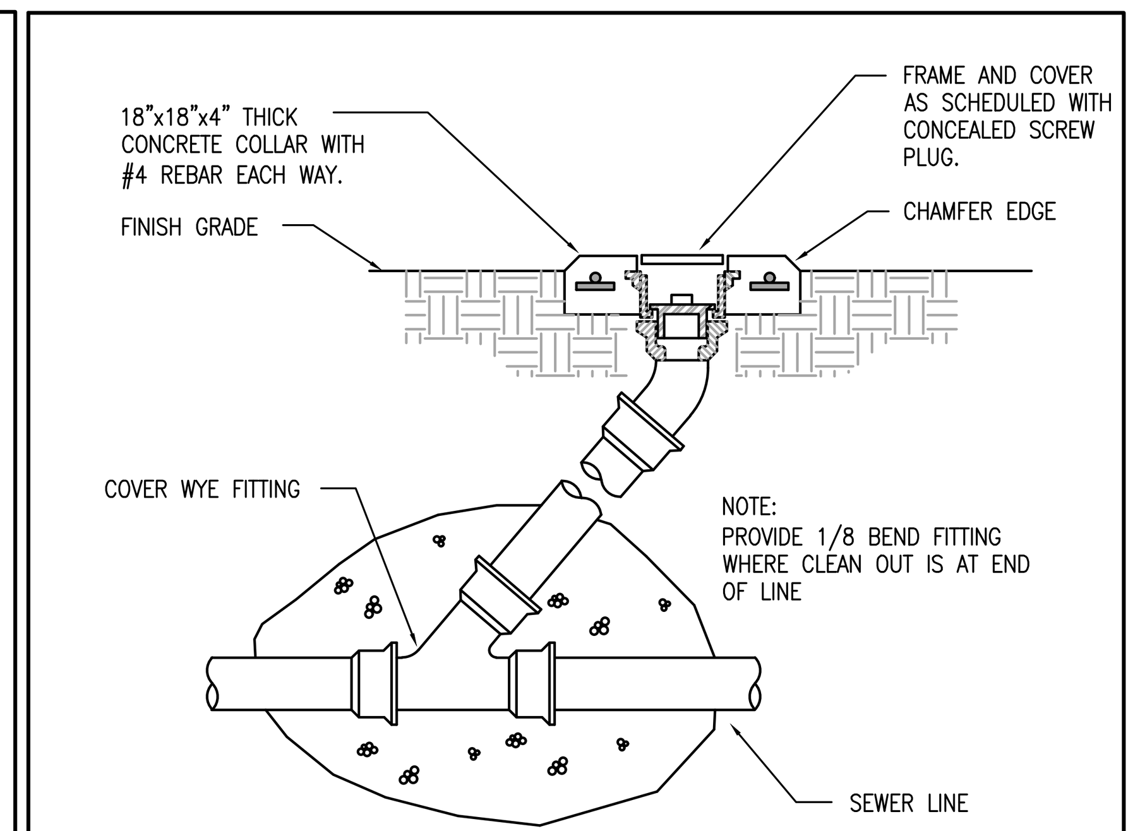


VALVE BOX TOP

DETAIL VALVE BOX

N.T.S.



EXTERIOR CLEANOUT (ECO)

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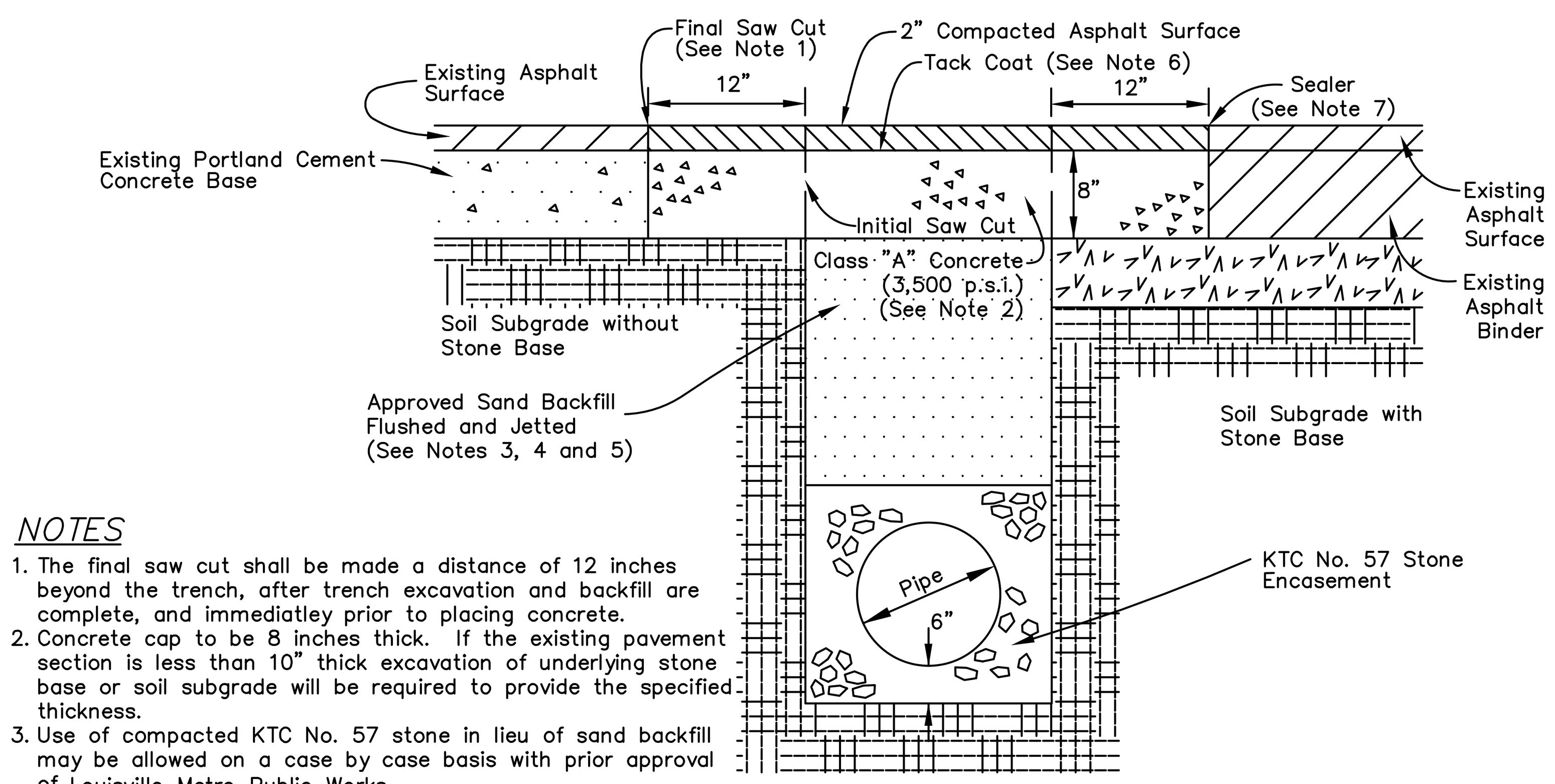

NOTES

1. The final saw cut shall be made a distance of 12 inches beyond the trench, after trench excavation and backfill are complete, and immediatley prior to placing concrete.
2. Concrete cap to be 8 inches thick. If the existing pavement section is less than 10" thick excavation of underlying stone base or soil subgrade will be required to provide the specified thickness.
3. Use of compacted KTC No. 57 stone in lieu of sand backfill may be allowed on a case by case basis with prior approval of Louisville Metro Public Works
4. In roadway embankment situations, when sand backfill is utilized, compacted earth shall be placed on all material within 5 feet (horizontal distance) of the embankment slope.
5. Tack material consisting of emulsified asphalt SS-1h shall be placed on the surface of the concrete cap at the rate of 0.1 gallon per square yard, and allowed to "break" prior to the placement of the asphalt surface.
6. Pavement joints shall be sealed with an approved joint sealant after placement of asphalt surface.
7. The Contractor shall be responsible during the ensuing 5 years for proper backfilling and replacement of the surface. During the 5 year period any pavement settlement shall be immediately repaired by the Contractor at the expense of the Contractor.

TRENCHING AND ASPHALT PAVING RESTORATION DETAIL

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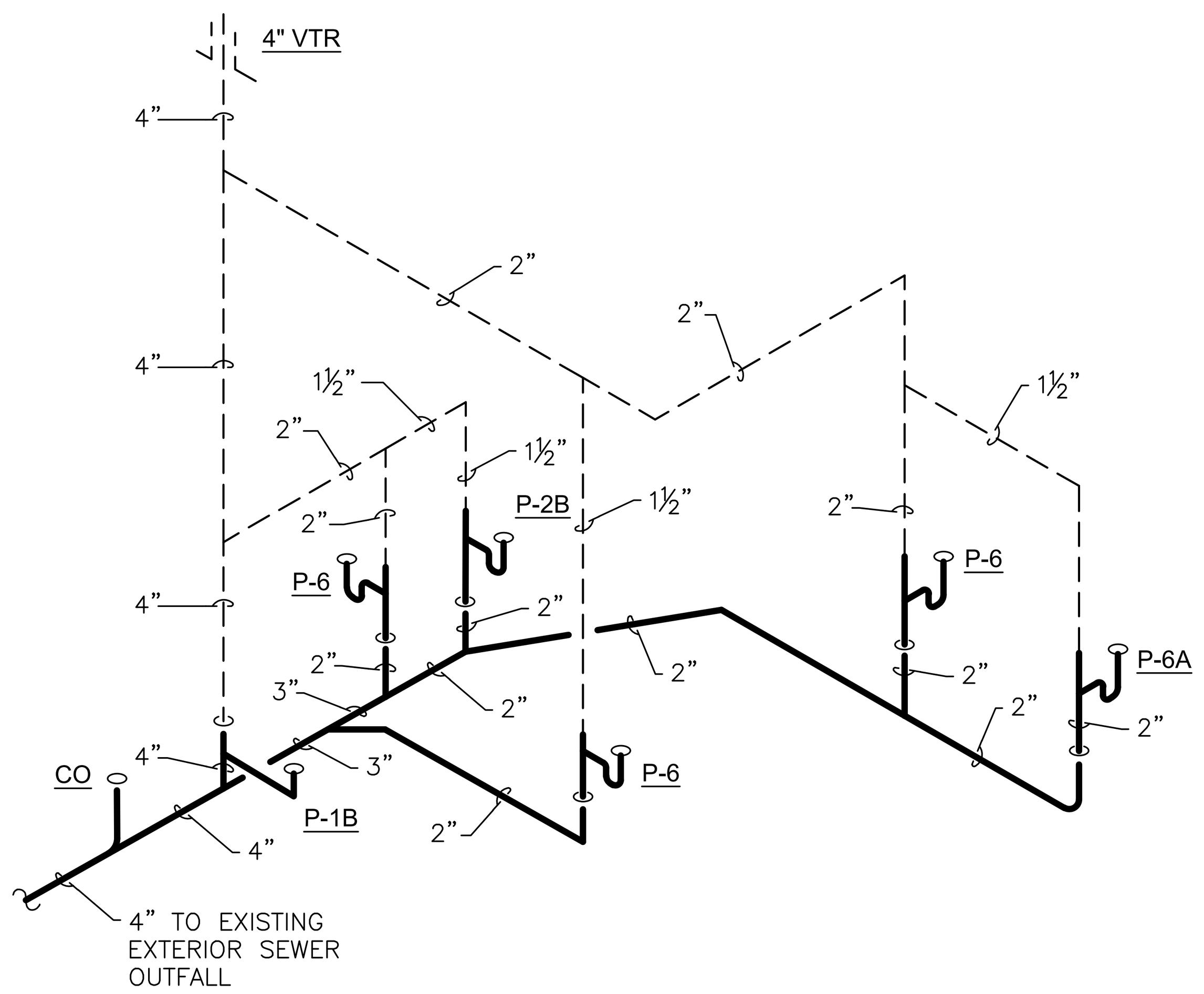

R 1 RISER #1

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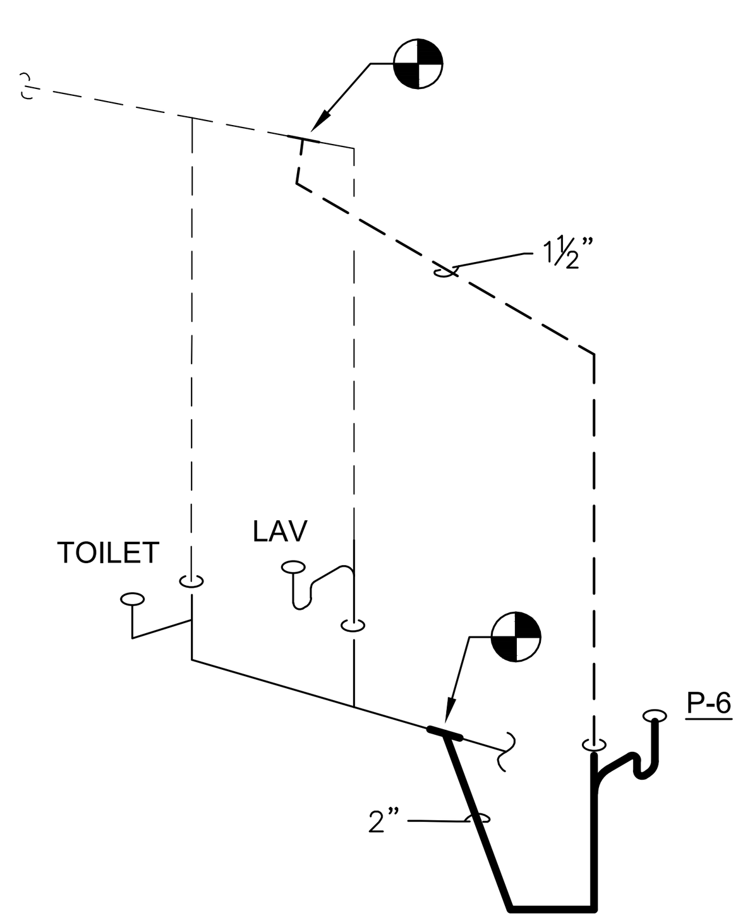

R 2 RISER #2

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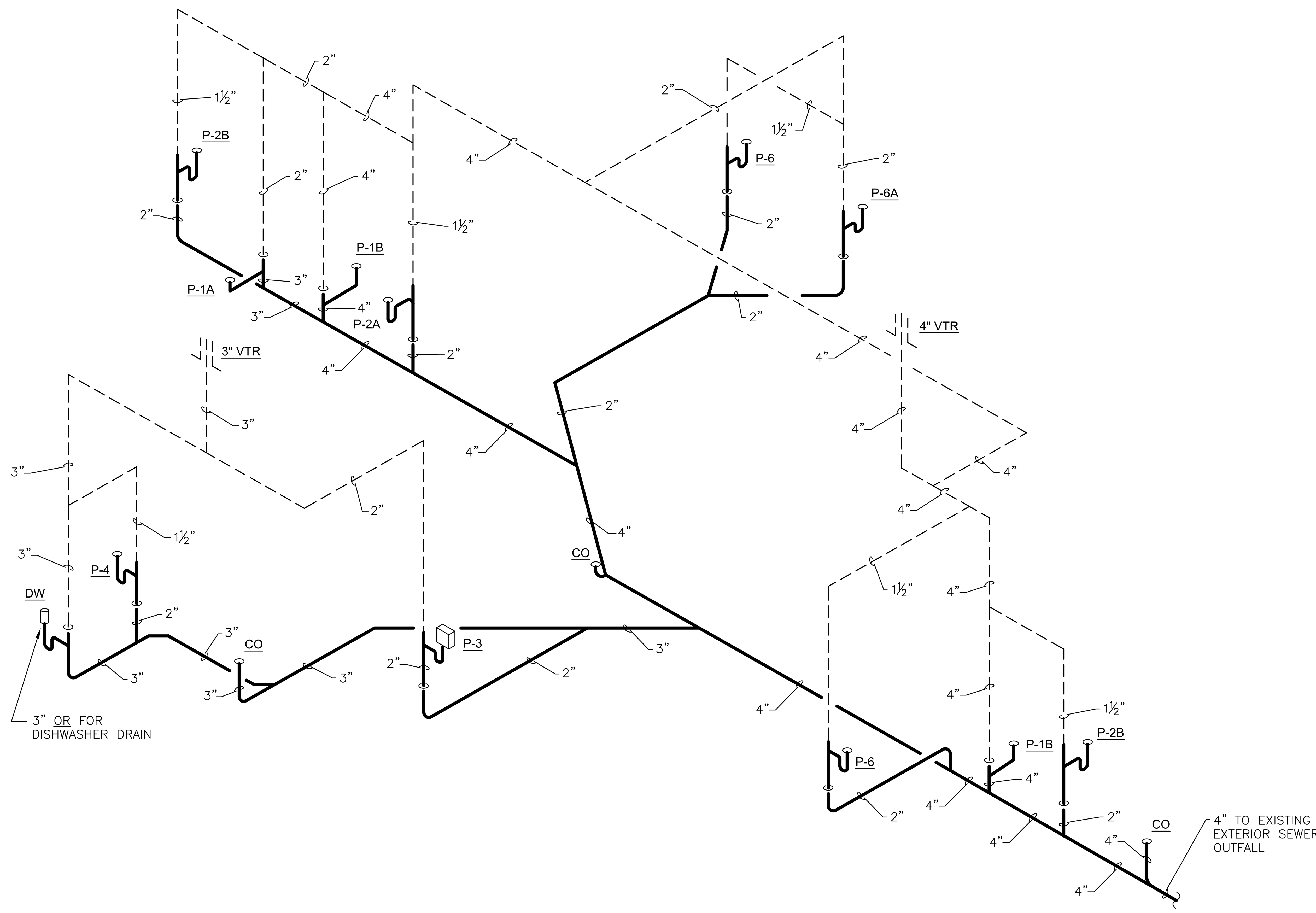

R 3 RISER #3

NO SCALE

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