

DD SET

A0.1 A0.2 A0.3

A0.4 A0.5 A0.6

A0.7

A0.8

A1.1

A1.2

A1.6

A2.1

A3.5 A4.1

A4.2

A4.3

A5.1

A5.2

A7.1

A7.2 A8.1 A9.1

DRAWING INDFX

MECHANICAL & ELECTRICAL ENGINEERS

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STRUCTURAL ENGINEER

Kabil Associates, Inc.

5900 Sharon Woods Blvd, Suite B Columbus, Ohio 43229 (614) 899-8199

(OBC 2024)		S2.2 S3.1 S3.2
POLICE STATION FOR	HEIGHT AND AREA LIMITATIONS BUILDING DESCRIPTION: XXXX FLOOR AREA: XXXX	S3.3 S4.1 S4.2 S4.3 S4.3 S4.4 S4.5 S5.1 S5.1
POLICE STATION	OCCUPANT LOAD XXXXX	S6.2 S6.3 S6.4 S6.5 S6.6 S6.7 S6.8
ETE SLAB WITH STEEL NS, STEEL BAR JOISTS TAL DECK.	FIRE PROTECTION BUILDING DESCRIPTION : FULLY SPRINKLERED	

JRAWING INDEX			
	GENERAL		
G0.1 G0.2 G0.3	COVER SHEET ARCHITECTURAL SITE PLAN STORM SHELTER		
	CIVIL		
C0.0 C0.1 C0.2 C0.3 C0.4 C1.0 C2.0 C3.0 C4.0 C4.1 C5.0 C6.1 C7.0 C7.1 C7.2 C7.3 C8.0 C8.1 C8.2	TITLE SHEET GENERAL NOTES GENERAL DETAILS GENERAL DETAILS GENERAL DETAILS SITE DETAILS EXISTING SURVEY SITE PREPARATION PLAN SITE PLAN SITE PLAN GRADING AND DRAINAGE PLAN GRADING AND DRAINAGE PLAN GRADING DETAILS STORM PROFILES STORM PROFILES STORM PROFILES STORM DETAILS SWPPP TITLE SHEET SWPPP GENERAL EROSION CONT		

LANDSCAPE

L1.0 SITE LANDSCAPE PLAN

ARCHITECTURAL

ABBREVIATIONS AND SYMBOLS FINISH SCHEDULES DOOR SCHEDULES WALL TYPES WINDOW SCHEDULE DOOR AND WINDOW DETAILS OVERHEAD DOOR DETAILS INTERIOR DETAILS REFERENCE PLAN DIMENSION PLAN ROOF PLAN REFLECTED CEILING PLAN EXTERIOR ELEVATIONS BUILDING SECTIONS WALL SECTIONS WALL SECTIONS EXTERIOR DETAILS EXTERIOR DETAILS EXTERIOR DETAILS INTERIOR ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS INTERIOR ELEVATIONS CASEWORK DETAILS FINISH FLOOR PLAN

STRUCTURAL

RUOF FRAMING PLAN
ENLARGED STRUCTURAL PLANS
ENLARGED STRUCTURAL PLANS
FRAMING ELEVATIONS
FRAMING ELEVATIONS
FRAMING ELEVATIONS
STRUCTURAL SECTIONS
STRUCTURAL DETAILS
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3	 1	5

ICC 500, 2014 CHAPTER 3: STRUCTURAL DESIGN CRITERIA

GOVERNING CODES:

• ICC 500 2014

- THE TORNADO SHELTER HAS BEEN DESIGNED PER THE REQUIREMENTS OF ICC 500 2014.
- SHELTER DESIGN WIND SPEED, V(ult): 250 mph WIND EXPOSURE CATEGORY: • INTERNAL PRESSURE COEFFICIENT (GCpi): +/- 0.55 TOPOGRAPHICAL FACTOR: 1.0 DIRECTIONALITY FACTOR: 10 MINIMUM FOUNDATION CAPACITY REQUIREMENTS: REFER TO STRUCTURAL DRAWINGS • SHELTER INSTALLATION REQUIREMENTS: REFER TO STRUCTURAL DRAWINGS

REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL STRUCTURAL NOTES AND DETAILS. ICC 500, 2014 CHAPTER 4: SITING

THE SHELTER IS NOT BEING CONSTRUCTED WITHIN AN AREA SUSCEPTIBLE TO FLOODING PER FEMA.

THE SITE IS LOCATED OUTSIDE OF ANY FLOOD PLAINS. THEREFORE, BASE FLOOD ELEVATION IS NOT APPLICABLE.

THE SHELTER FINISHED FLOOR ELEVATION IS 776.50.

THE SHELTER IS NOT LOCATED IN A PRECAUTIONARY ZONE. PER A SEARCH OF SARA TITLE III FACILITY REPORTS BY THE **MONTGOMERY COUNTY** LOCAL EMERGENCY RESPONSE COUNCIL, NO HAZARDOUS SUBSTANCE FACILITIES OR STORAGE WERE DISCOVERED.

ICC 500 2014, SECTION 501 COMMUNITY SHELTERS TABLE 501.1.1 (TORNADO) - OCCUPANCY DENSITY 5 SF/STANDING OR SEATED MINIMUM • 10 SF/WHEELCHAIR SPACE (1:200) 501.1.2.2 - ALTERNATIVE CALCULATION OF USABLE FLOOR AREA GROSS AREA = 17' - 4 3/4" x 8' - 6" = 147.68 SF WALL AREA - 33.94 SF FIXED OBJECTS 16.02 SF NET CLEAR AREA 97.72 SI

MAXIMUM OCCUPANCY = 15 OCCUPANTS + 1 WHEELCHAIR DECLARED BUILDING OCCUPANCY = 16 OCCUPANTS

501.2 - NUMBER OF DOORS

- BASED ON SHELTER OCCUPANCY, ONLY ONE MEANS OF EGRESS IS REQUIRED. • PER EXCEPTION LISTED UNDER 501.2, NO EMERGENCY ESCAPE OPENING IS REQUIRED FOR SHELTERS WITH AN OCCUPANT LOAD NOT EXCEEDING 16 OCCUPANTS. 501.3 - DIRECTION OF SWING • DOOR SHALL SWING INTO THE SHELTER SPACE IN ACCORDANCE WITH OBC 2017. DOOR ASSEMBLY TO BE TESTED AND LABELED IN ACCORDANCE WITH ICC 500 2014, CHAPTER 8 AND ASTM E361.
- 504 SIGNAGE FOR COMMUNITY SHELTERS
- REFER TO VIEWS F3 AND F5 ON THIS SHEET FOR SIGNAGE LOCATIONS. • REFER TO SIGNAGE LEGEND ON SHEET A.03 FOR SIGNAGE DETAILS.

ICC 500, 2014 CHAPTER 6: FIRE SAFETY

601.1 - FIRE SEPARATION

- ALL SHELTER WALLS ARE 2 HOUR FIRE RATED PARTITIONS. UL DESIGN NO. U905. • SHELTER HORIZONTAL ASSEMBLY (CEILING/ROOF) IS A 2 HR. RATED ASSEMBLY. UL DESIGN NO. D219.
- 602 FIRE EXTINGUISHERS • A WALL HUNG FIRE EXTINGUISHER IS PROVIDED MEETING IBC AND NFPA 10 REQUIREMENTS.
- REFER TO SHEET A0.01 FOR MOUNTING DETAILS.

ICC 500, 2014 CHAPTER 7: SHELTER ESSENTIAL FEATURES AND ACCESSORIES

SECTION 702: TORNADO SHELTERS STORM SHELTER OCCUPANCY IS 16 PEOPLE.

TABLE 702.1.1

- VENTILATION OPENING REQUIREMENTS ARE 5 SQ. IN. PER OCCUPANT. 16 OCCUPANTS REQUIRE 80 SQ. IN. FREE AREA TOTAL A MINIMUM OF 50% OF THE VENTILATION OPENING IS TO BE PROVIDED ABOVE 72" AND A
- MINIMUM OF 25% OF THE VENTILATION OPENING IS TO BE PROVIDED WITHIN 46" OF THE FLOOR. 36 SQ. IN. FREE AREA (60% OF REQUIRED 60 SQ. IN.) IS PROVIDED ABOVE 72" VIA A 6X6
- TRANSFER AIR DUCT WITH A TYPE "A" FIRE DAMPER. 34.5 SQ. IN. FREE AREA (57.5% OF REQUIRED 60 SQ. IN.) IS PROVIDED WITHIN 46" OF THE
- FLOOR VIA A 12X12ICC 500 RATED LOUVER. THE LOUVER PROVIDES OUTSIDE AIR TO THE STORM SHELTER.
- THE OUTSIDE AIR LOUVER IS PROVIDED WITH A POWER CLOSED, SPRING OPEN AUTOMATIC CONTROL DAMPER. DURING NORMAL POWER, THE DAMPER IS NORMALLY CLOSED. UPON LOSS OF POWER, THE DAMPER SPRINGS OPEN.
- A TOTAL OF 70.5 SQ. IN. OF FREE AREA IS PROVIDED. VENTILATION OPENINGS ARE LOCATED ON MULTIPLE WALLS OF THE SHELTER TO
- PROMOTE CROSS VENTILATION OF THE SPACE.
- REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

TABLE 702.2

USAGE.

- ONE WATER CLOSET IS REQUIRED.
- THE LAVATORY IS NOT REQUIRED. HAND SANITIZER WILL BE STORED BY THE OWNER.

BASED ON 3 WATER CLOSET USES PER 8HR PERIOD PER OCCUPANT (FROM L.E.E.D.), IN A 2 HR PERIOD THAT IS 3/4 USES PER PERSON.

FOR 16 PEOPLE, 12 FLUSHES WILL BE REQUIRED.

THE TANK WILL BE FILLED ON ENTRY INTO THE SPACE AS A STORM SHELTER, THE FIRE DEPARTMENT WILL BE REQUIRED TO STORE ENOUGH WATER TO ACCOMMODATE 12 FLUSHES. EACH TANK FILL/FLUSH REQUIRES 1.6 GALLONS OF WATER, 1.6 GALLONS PER FLUSH X 12 = 19.2 GALLONS MINIMUM OF POTABLE WATER NEED TO BE MADE AVAILABLE FOR WATER CLOSET

ADDITIONAL POTABLE WATER SHALL BE STORED FOR DRINKING.

INCLUDE THESE REQUIREMENTS IN THE OWNER'S INSTRUCTIONS. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

702.3 EMERGENCY LIGHTING

- LIGHTING FIXTURES WILL BE CONNECTED TO AN EMERGENCY BATTERY BACK-UP TO POWER LIGHTS IN SHELTER FOR A MINIMUM OF 2 HOURS UPON LOSS OF NORMAL POWER. REFER TO ELECTRICAL DRAWINGS FOR DETAILS.
- A MINIMUM OF (3) FLASHLIGHTS >20 LUMENS EACH ARE TO BE STORED IN THE SHELTER.

STORM SHELTER SPECIAL INSTRUCTIONS

STORM EVENT OPERATIONS PLAN

2

- POSITION DESIGNATED PERSONNEL AT DOOR TO ENSURE THAT ONCE ALL OCCUPANTS ARE INSIDE SHELTER, DOOR REMAINS CLOSED AND LOCKED DURING THE ENTIRE STORM EVENT. OPENING DOOR DURING HIGH PRE-EVENT OR EVENT WINDS COULD DAMAGE THE DEVICE, REMOVE THE DEVICE, OR MAKE IT WHERE THE DEVICE CANNOT BE RE-CLOSED MAKING ALI SHELTER OCCUPANTS VULNERABLE TO THE WIND EVENT FOR WHICH THEY ARE SEEKING
- PROTECTION SHELTER OCCUPANTS ARE NOT TO PHYSICALLY CONTACT THE EXTERIOR WALLS OR OPENING PROTECTIVE DEVICES OF THE SHELTER.
- VERY LARGE POINT LOADS CREATED BY DEBRIS MAY BE EXERTED ON THE EXTERIOR WALL AND THIS KINETIC ENERGY MAY BE TRANSFERRED THROUGH THE SHELTER WALL WHICH COULD INJURE AN INDIVIDUAL THAT IS CONTACT WITH THE EXTERIOR WALL OF THE SHELTER.

STORAGE CABINET CONTENTS

- 20 GALLONS OF POTABLE WATER FOR TOILET FLUSHING (TO BE STORED ON BOTTOM SHELF) - 2 CASES OF 16 OZ. WATER BOTTLES (EQUALING 3 GALLONS) FOR DRINKING - HAND SANITIZER
- FIRST AID KIT - (3) FLASHLIGHTS WITH > 20 LUMENS OUTPUT EACH EVACUATION TOOLS HAMMER
- PRY BAR WORK GLOVES

National Flood Hazard Layer FIRMette



1.000 250 500

1.500





FEMA Legend EE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD **Regulatory Floodway** HAZARD AREAS 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with draina areas of less than one square mile Zone Future Conditions 1% Annual Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. *Zone X* THER AREAS OF FLOOD HAZARD Area with Flood Risk due to Levee Zone D NO SCREEN Area of Minimal Flood Hazard Zone Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone I GENERAL - - - Channel, Culvert, or Storm Sewer STRUCTURES LIIIII Levee, Dike, or Floodwall (B) 20.2 Cross Sections with 1% Annual Chance <u>17.5</u> Water Surface Elevation 8 - - - Coastal Transect ----- 513------ Base Flood Elevation Line (BFE) Limit of Study _____ Jurisdiction Boundary ---- Coastal Transect Baseline OTHER - Profile Baseline FEATURES Hydrographic Feature Digital Data Available No Digital Data Available MAP PANELS Unmapped accuracy standards become superseded by new data over time.

Basemap Imagery Source: USGS National Map 2023

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location. This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/21/2024 at 11:52 AM and does not eflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or This map image is void if the one or more of the following map

elements do not appear: basemap imagery, flood zone labels, egend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for egulatory purpose





STORM SHELTER - KEY PLAN

1:6,000

2.000



1/4" = 1'-0"



- CONCRETE LID IS INDEPENDENT OF ROOF STRUCTURE ABOVE. REFER TO STRUCTURAL DRAWINGS FOR DETAILS.
- REFER TO HVAC DRAWINGS FOR DUCT PENETRATIONS. REFER TO STRUCTURAL DRAWINGS FOR SHROUD DETAILS.
- 10 ACCESS LADDER TO EQUIPMENT PLATFORM. EQUIMENT ACCESSED BY PLATFORM IS NOT MOUNTED ON TOP OF SHELTER.
- 11 EDGE PROTECTION RAILING.



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A. THIS SHEET CONTAINS A GENERAL OVERVIEW OF

THE TORNADO SHELTER INFORMATION. FOR FURTHER NOTES AND DETAILS REFER TO THE

B. REFER TO STRUCTURAL DRAWINGS FOR

REINFORCEMENT DETAILS.

GENERAL NOTES

THIS SET.



SITE DATA	
PARCEL ID	R27-00111-0012
PARCEL AREA	15.78 ACRES
PROJECT AREA	4.07 ACRES
DISTURBED AREA WITHIN PROPERTY	3.31 ACRES
DISTURBED AREA WITHIN RIGHT-OF-WAY	0.76 ACRES
TOTAL DISTURBED AREA	4.07 ACRES
EXISTING IMPERVIOUS AREA	1.22 ACRES
EXISTING PERCENT IMPERVIOUS AREA	30%
PROPOSED IMPERVIOUS AREA	1.84 ACRES
PROPOSED PERCENT IMPERVIOUS AREA	45%

SURVEYOR NOTES:

- 1. BEARINGS BASED ON U.S. STATE PLANE, NAD83 OHIO SOUTH (3402) ESTABLISHED FROM USING THE OHIO REAL TIME NETWORK (RTN) PROVIDED BY THE OHIO DEPARTMENT OF TRANSPORTATION. COORDINATES TAKEN TO GROUND AT LATITUDE N39°45'01.92872", LONGITUDE W84°14'19.62436", PROJECT HEIGHT 669.459', GROUND SCALE FACTOR 1.00007573185807.
- 2. THE UTILITIES SHOWN ARE LOCATED FROM FIELD SURVEY INFORMATION AND/OR EXISTING DRAWINGS SUPPLIED BY CLIENT. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES LOCATED COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UTILITIES LOCATED ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. OUPS TICKETS REFERENCED FOR THIS PROJECT: B407300375-00B, B407300379-00B, B407300387-00B, AND B407300391-00B. FOR UTILITY LINES OR SERVICE LOCATIONS ON PRIVATE PROPERTY CESO RECOMMENDS CONTRACTING A PRIVATE UNDERGROUND UTILITY LOCATION SERVICE.

	BENCHMARK Vertical Datum: NAVD88 derived from GPS Observations
BM "A":	GROUND "X" ON "ARROW" (SOUTH WEST, 1 OF 4) BOLT ON FIRE HYDRANT LOCATED ABOUT $35'\pm$ WEST OF CENTERLINE OF INLAND AVE. AND ABOUT $395'\pm$ SOUTH OF W. 3RD STREET CENTERLINE. ELEVATION = 775.42'
BM "B":	BENCH TIE SET IN EAST SIDE (1' ABOVE GRADE) OF POWER POLE LOCATED ON NORTHWEST CORNER OF BROOKLYN AVE. AND WEST 3RD STREET, ABOUT 60'± WEST OF BROOKLYN AVE. CENTERLINE AND ABOUT 3.5' NORTH OF THE CURB LINE OF WEST 3RD STREET. ELEVATION = 777.45'
BM "C":	BENCH TIE SET IN SOUTHEAST SIDE (1' ABOVE CONCRETE) OF POWER POLE $\#135-29R$ LOCATED 2' EAST OF CURB LINE OF SHOOP AVE. AND ABOUT 75'± NORTH OF WEST 3RD STREET CENTERLINE. ELEVATION = 773.16'

FEMA FLOODPLAIN DATA ACCORDING TO THE FEMA FLOOD MAP SERVICE CENTER, THE SUBJECT PARCEL IS LOCATED WITHIN ZONE X (AREA OF MINIMAL FLOOD HAZARD) AS INDICATED BY FEMA MAP NUMBER 39113C0163E WITH AN EFFECTIVE DATE OF JANUARY 6, 2005.

<u>SURVEYOR</u>

CESO 3601 RIGBY ROAD, SUITE 300 MIAMISBURG, OH 45342 CONTACT: RICK CROSS PHONE: (937) 848–0585

CITY OF DAYTON, OHIO NEW POLICE STATION

10 ABBEY AVENUE DAYTON, OHIO 45417

INDEX MAP SCALE: 1"=50'

APPROVED

SIGNATURE BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSES AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLANS.

DIRECTOR, DEPARTMENT OF WATER CITY OF DAYTON, OHIO

CITY ENGINEER, PUBLIC WORKS CITY OF DAYTON, OHIO

ENGINEER

KABIL ASSOCIATES 5900 SHARON WOODS BLVD COLUMBUS, OH 43229 CONTACT: JEFF EDWARDS PHONE: (614) 899-6707 EMAIL: jedwards@kabil.com <u>OWNER</u> CITY OF DAYTON

101 WEST THIRD STREET DAYTON, OHIO 45402





Kabil Associates rchitects Planner 5900 Sharon Woods Blvd. Columbus, Ohio 43229 Phone: (614) 899-6707

R Registered Engineer

No.



LOCATION MAP NOT TO SCALE

Inc SOC1 Kabil





STANDARD DRAWINGS CITY OF DAYTON G-3 ST-1 ST-2 ST–5 ST-8 WA-1 WA-2 WA-3 WA-5 D-34 D-35

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SHEET NO.



GENERAL NOTES

- ALL EXISTING UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATION ACCORDING TO THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE REQUIRED TO FIELD LOCATE EXACT LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES PRIOR TO SETTING GRADE AND ALIGNMENT. THE CITY OF DAYTON AND THE DEPARTMENT OF WATER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR DEPTH OF THE UNDERGROUND FACILITIES SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF THE SAME AND FOR ANY RESULTING CONTINGENT DAMAGE. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. ALL COST FOR LOCATING, REMOVING AND REPLACING OR RELOCATING THESE UTILITIES SHALL BE INCIDENTAL TO CONSTRUCTION. ALL UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO THE UTILITY OWNER'S SATISFACTION. THE EXACT LOCATION OF EXISTING UTILITIES SHALL BE DETERMINED BY HAND DIGGING.
- 2. LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES, WHETHER OR NOT SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- WHEN UNKNOWN OR INCORRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY OWNER AND THE DEPARTMENT OF WATER.
- -. ALL WORK SHALL CONFORM TO THE CITY OF DAYTON, CONSTRUCTION AND MATERIAL SPECIFICATIONS (LATEST EDITION)
- 5. NO CONSTRUCTION SHALL COMMENCE UNTIL CITY OF DAYTON PERMITS HAVE BEEN ISSUED AS REQUIRED.
- 6. ALL PROJECT ORDERS (FIELD OR OFFICE), REQUESTS, CHANGES, ADDITIONS OR DELETIONS PERTAINING TO PUBLIC WATER MAIN, STORM SEWER, AND SANITARY SEWER FACILITIES SHALL BE ONLY BY DIRECTION OR REQUEST OF THE DEPARTMENT OF WATER.
- THE CONTRACTOR SHALL NOTIFY RESIDENTS AND BUSINESSES AFFECTED BY STREET CLOSURES A MINIMUM OF 48 HOURS IN ADVANCE OF THE ACTUAL STREET CLOSING.
- 3. ROADWAY RESTORATION WITHIN THE CITY OF DAYTON CORPORATION LIMITS SHALL BE DONE IN COMPLIANCE WITH THE DEPARTMENT OF PUBLIC WORKS "RULES AND REGULATIONS FOR MAKING OPENINGS IN A PUBLIC WAY" (LATEST EDITION).
- FORTY-EIGHT HOURS PRIOR TO ANY CONSTRUCTION, EXCAVATION OR DIGGING, THE CONTRACTOR SHALL CALL AND NOTIFY THE OHIO UTILITIES PROTECTION SERVICES (OUPS) AT 1-800-362-2764. ALL OTHER AGENCIES, WHICH MIGHT HAVE UNDERGROUND UTILITIES IN THIS AREA AND ARE NOT MEMBERS OF OUPS, SHALL BE NOTIFIED DIRECTLY BY THE CONTRACTOR.
- 10. APPROVAL OF PLANS BY THE DEPARTMENT OF WATER DOES NOT RELIEVE THE DESIGNER, OWNER, OR PERSON IN CONTROL OF THE PROPERTY FROM LIABILITY FOR INJURY TO PERSONS OR PROPERTY.
- 11. APPROVAL OF THE PLANS SHALL BECOME VOID IF CONSTRUCTION HAS NOT COMMENCED WITHIN TWELVE (12) MONTHS FROM THE DATE APPROVED BY THE DEPARTMENT OF WATER. IN ADDITION, THE PLANS SHALL BECOME VOID IF CONSTRUCTION IS NOT COMPLETED WITHIN TWO (2) YEARS FROM THE DATE APPROVED BY THE DEPARTMENT OF WATER.
- 12. ALL FILLS (INCLUDING TRENCH BEDDING AND BACKFILL) INTENDED TO SUPPORT A WATER MAIN, SANITARY SEWER, STORM SEWER OR DRAINAGE CHANNEL SHALL BE COMPACTED TO NOT LESS THAN 90% MAXIMUM DENSITY (MODIFIED PROCTOR TEST ASTM D1557), UNLESS OTHERWISE NOTED. FIELD VERIFICATION AND FORMAL RESULT SUBMITTALS MAY BE REQUESTED (AS NECESSARY) BY THEDEPARTMENT OF WATER.
- 13. IN ADDITION TO THE NOTES ON THIS SHEET, CONTRACTOR'S ATTENTION SHALL BE DIRECTED TO THE NOTES ON THE ATTACHED SHEETS AS WELL.
- 14. COMPACTED FILLS ARE TO BE MADE TO A MINIMUM OF THREE FEET ABOVE THE CROWN OF ANY PROPOSED WATER LINE, SANITARY OR STORM SEWER LINES PRIOR TO CUTTING OF TRENCHES FOR PLACEMENT OF SAID LINES. ALL FILLS SHALL BE CONTROLLED, COMPACTED AND INSPECTED.

STORM WATER COLLECTION SYSTEM NOTES:

- I. ALL STORM SEWERS AND CATCH BASIN LATERALS SHALL BE REINFORCED CONCRETE ASTM SPECIFICATION NUMBER C-76. CLASS 4 (UNLESS OTHERWISE NOTED).
- 2. STORM MANHOLES SHALL BE EQUAL TO ASTM C-478, CITY OF DAYTON TYPE "A" MANHOLE.
- 3. CHANNEL BOTTOMS OF ALL MANHOLES.
- 4. ALL CONNECTIONS TO EXISTING STORM SEWER MANHOLES SHALL BE MADE USING A DIAMOND CORE DRILL.
- 5. ALL CATCH BASINS TO BE CITY OF DAYTON TYPE "3" OR "3A" WITH "V" TYPE GRATES (UNLESSOTHERWISE NOTED).
- 3. ALL FIELD TILE ENCOUNTERED SHALL BE REPLACED OR CONNECTED TO THE STORM SEWER SYSTEM WITH APPROVAL FROM THE CITY OF DAYTON, DEPARTMENT OF WATER.
- NO ADDITIONS, DELETIONS, OR REVISIONS TO THE STORM SEWER ARE TO BE MADE WITHOUT WRITTEN APPROVAL BY THE DEPARTMENT OF WATER.
- B. DEPARTMENT OF WATER PERSONNEL WILL INSPECT THE STORM SEWER INSTALLATION WITHIN THE PUBLIC RIGHT-OF-WAY OR IN AN EASEMENT. THE DIVISION OF BUILDING SERVICES WILL INSPECT ALL PRIVATE STORM SEWER INSTALLATIONS.

9. ALL STORM SEWER CONSTRUCTION AND MATERIAL SHALL BE IN ACCORDANCE WITH THE CITY OF DAYTON CONSTRUCTION AND MATERIAL SPECIFICATIONS (LATEST EDITION) AND DEPARTMENT OF WATER ENGINEERING STANDARDS FOR WATER, SANITARY SEWER, AND STORM SEWER FACILITIES (LATEST EDITION).

EROSION CONTROL NOTES:

- 1. FORTY-EIGHT HOURS PRIOR TO ANY EARTH DISTURBING WORK, THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF WATER AT (937) 333-3739 (FIELD BUREAU).
- 2. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN. CONSTRUCTION. SEDIMENT CONTROL PRACTICES SHALL BE APPLIED AS A PERIMETER DEFENSE AGAINST ANY TRANSPORTING OF SILT OFF THE SITE. ALL RUNOFF RESULTING FROM CONSTRUCTION OPERATIONS MUST BE FILTERED BY APPROVED METHODS PRIOR TO DISCHARGING TO THE STORM SEWER SYSTEM.
- 3. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSPECTED BY THE CONTRACTOR AND REPAIRED ONCE A WEEK AND AFTER EVERY $\frac{1}{2}$ " OF RAIN. RECORDS OF SUCH INSPECTION SHALL BE KEPT AT THE JOB SITE AND BE AVAILABLE FOR IMMEDIATE REVIEW UPON REQUEST.
- 4. IN ADDITION TO ANY TEMPORARY EROSION, SEDIMENT, AND DEBRIS CONTROL DETAILS AND NOTES SHOWN ON THE PLANS, THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT BASINS, EARTH DIKES, TEMPORARY OR PERMANENT SEEDING MULCHING AND/OR MULCH NETTING OR ANY OTHER GENERALLY ACCEPTED METHODS TO PREVENT EROSION, MUD AND DEBRIS FROM BEING DEPOSITED ON OTHER PROPERTY, ON NEWLY CONSTRUCTED OR EXISTING ROADS, OR INTO EXISTING SEWERS OR NEW SEWERS WITHIN THE DEVELOPMENT.
- 5. ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE TO FINAL GRADE AND ARE TO REMAIN SO SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL. DISTURBED AREAS THAT LIE DORMANT FOR 21 DAYS OR MORE SHALL BE SEEDED OR PROTECTED WITHIN 7 CALENDAR DAYS OF THE DISTURBANCE. OTHER SEDIMENT CONTROLS THAT ARE INSTALLED SHALL BE MAINTAINED UNTIL VEGETATIVE GROWTH HAS BEEN ESTABLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY SEDIMENT DEVICES AT THE CONCLUSION OF CONSTRUCTION BUT NOT BEFORE GROWTH OF PERMANENT GROUND COVER.
- 6. UNTIL IMPROVEMENTS IN THE DEVELOPMENT HAVE BEEN COMPLETED, THE CONTRACTOR SHALL TAKE SUCH MEASURES AS ARE NECESSARY TO PREVENT EROSION OF GRADED SURFACES ONTO ROADWAYS, INTO DRAINAGE COURSES, STORM SEWERS, OR ONTO ADJOINING LAND. FOR ANY EARTH DISTURBANCE OR ANY DEVELOPMENT APPROVED BY THE DEPARTMENT OF WATER, THE CONTRACTOR SHALL CLEAN ANY MUD OR DEBRIS DEPOSITED ON ROADWAYS, DRAINAGE COURSES. OR ADJOINING PROPERTY WHEN THE MUD AND DEBRIS ORIGINATES FROM THE EARTH MOVING OPERATIONS.
- 7. ALL MUD/DIRT TRACKED ONTO ROADS FROM THE SITE, DUE TO CONSTRUCTION, SHALL BE PROMPTLY (WITHIN 24 HOURS) REMOVED.
- 8. FOR DEVELOPMENT SITES, EROSION CONTROL MEASURES SHALL BE ENFORCED ON INDIVIDUAL OR RESIDENTIAL LOTS. THIS SHALL INCLUDE A CONSTRUCTION ENTRANCE (REFER TO DETAIL - ER-8) AND SILT FENCE ACROSS THE FRONTAGE OF EACH PROPERTY AND A TEMPORARY DIVERSION DITCH ON EACH LOT.
- 9. THIS PROJECT IS SUBJECT TO INSPECTION BY THE DEPARTMENT OF WATER PERSONNEL FOR COMPLIANCE WITH THE CITY'S STORM WATER ORDINANCE DURING AND AFTER CONSTRUCTION. THIS INCLUDES BUT IS NOT LIMITED TO INSPECTION OF EROSION CONTROL FACILITIES, SURFACE DRAINAGE, AND DETENTION/RETENTION FACILITIES. ADDITIONAL MEASURES MAY BE REQUIRED IF VIOLATIONS OF THE ORDINANCE OCCUR AND WATER DEPARTMENT PERSONNEL DEEM IT NECESSARY. ALL MEASURES SHALL COMPLY WITH CITY OF DAYTON STANDARDS AND "RAINWATER AND LAND DEVELOPMENT, OHIO'S STANDARD FOR STORM WATER MANAGEMENT, LAND DEVELOPMENT, AND URBAN STREAM PROTECTION", (LATEST EDITION).

WATER DISTRIBUTION SYSTEM NOTES:

- 1. WATER MAINS, BENDS AND FITTINGS SHALL BE DUCTILE CAST IRON PIPE AND CONFORM TO ANSI A-21.51 (AWWA C151), CLASS 51 (UNLESS OTHERWISE NOTED).
- 2. THRUST BLOCKS ARE REQUIRED AT ALL FITTINGS.
- 3. THE LENGTH OF RESTRAINED JOINT REQUIREMENTS ARE INDICATED ON EACH PLAN AND PROFILE SHEET.
- 4. WELDING OF PIPE AND/OR APPURTENANCES IS NOT PERMITTED WITHOUT WRITTEN APPROVAL OF THE CITY OF DAYTON, DEPARTMENT OF WATER.
- 5. WATER MAINS SHALL HAVE A MINIMUM COVER OF 4 FEET, 6 INCHES. WATER MAINS SHALL HAVE A MINIMUM OF 10 FEET HORIZONTAL SEPARATION (OUT-TO-OUT) FROM ANY STORM OR SANITARY SEWER.
- 6. WATER MAINS CROSSING ANY AND ALL SEWERS SHALL HAVE A MINIMUM VERTICAL SEPARATION OF 18 INCHES BETWEEN THE OUTSIDES OF THE PIPES (OUT TO OUT). ALSO, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING SUCH THAT BOTH JOINTS WILL BE OF EQUAL DISTANT AND AS FAR FROM THE SEWER AS POSSIBLE. IF WATER MAIN CROSSES BELOW SANITARY SEWERS, THE SANITARY SEWER MUST BE WATER MAIN MATERIAL FOR THAT SPAN.
- 7. ONLY CITY OF DAYTON PERSONNEL SHALL OPERATE MAIN LINE WATER VALVES WITHIN THE DAYTON CORPORATION LIMITS.
- 8. ALL VALVE-OPERATING NUTS SHALL BE SET AT A MAXIMUM DEPTH OF 6 FEET. THE CONTRACTOR SHALL FURNISH AND INSTALL APPROVED EXTENSIONS AS REQUIRED.
- 9. THE CONTRACTOR SHALL BE ADVISED THAT ANY CLOSURE PIECES OR SLEEVES REQUIRED TO CONNECT SECTIONS OF THE CONCRETE MAIN LINE OR DUCTILE IRON CONNECTIONS. OTHER THAN THOSE SPECIFICALLY SHOWN ON THE CONSTRUCTION DRAWINGS, SHALL BE AT HIS EXPENSE.

- 10. ALL TAPS TO EXISTING WATER MAINS WILL BE MADE BY THE CITY OF DAYTON AT THE CONTRACTOR'S EXPENSE. THIS WORK WILL INCLUDE FURNISHING AND INSTALLING THE TAPPING SLEEVE AND VALVE AND MAKING THE TAP. ALL OTHER WORK INCLUDING EXCAVATION, BACKFILL, AND RESTORATION OVER THE TAPPED MAIN SHALL BE BY THE CONTRACTOR. CONTACT WATER ENGINEERING AT (937) 333-3742.
- 11. SERVICE CONNECTIONS SHALL NOT BE MADE TO THE WATER MAIN UNTIL THE MAIN LINE HAS BEEN INSPECTED, TESTED, DISINFECTED AND RELEASED FOR TAPS. ALL WATER SERVICE CONNECTIONS SHALL BE A MINIMUM OF 1" DIAMETER AND MINIMUM OF 5/8" WATER METER AND CONFORM TO THE CITY OF DAYTON STANDARDS FOR TAPS, SERVICES, METERS, AND BACKFLOW PREVENTION, (LATEST EDITION).
- 12. NO WATER SERVICE BRANCH SHALL BE LAID IN THE SAME TRENCH WITH A SANITARY SEWER LATERAL.
- 13. FIRE HYDRANTS SHALL BE LOCATED 3-FEET FROM THE FACE OF THE CURB OR EDGE OF THE PAVEMENT AND 4-INCH OPENING TO FACE THE STREET. FIRE HYDRANTS LOCATED WITHIN THE WALK MUST COMPLY WITH ADA REGULATIONS.
- 14. NO ADDITIONS, DELETIONS, OR REVISIONS TO THE WATER MAIN ARE TO BE MADE WITHOUT WRITTEN APPROVAL BY THE DEPARTMENT OF WATER.
- 15. DEPARTMENT OF WATER PERSONNEL WILL INSPECT THE WATER MAIN INSTALLATION.
- 16. ALL WATER MAIN CONSTRUCTION AND MATERIAL SHALL BE IN ACCORDANCE WITH THE CITY OF DAYTON CONSTRUCTION AND MATERIAL SPECIFICATIONS (LATEST EDITION) AND DEPARTMENT OF WATER ENGINEERING STANDARDS FOR WATER. SANITARY SEWER, AND STORM SEWER FACILITIES (LATEST EDITION).

SANITARY COLLECTION SYSTEM NOTES:

- 1. SANITARY SEWERS LATERAL SERVICE SHALL CONFORM TO THE PVC-SDR35, F1417 AND D2321.
- 2. CHANNEL BOTTOMS OF ALL MANHOLES.
- 3. ALL CONNECTIONS TO EXISTING SANITARY MANHOLES SHALL BE MADE USING A DIAMOND CORE DRILL AND THE JOINT SEALED WITH "DURA SEAL" RUBBER GASKET OR APPROVED EQUAL.
- 4. SANITARY WYE CONNECTIONS SHALL BE FACTORY FABRICATED
- 5. ROOF DRAINS; FOUNDATION DRAINS OR OTHER "CLEAN WATER" CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
- 6. WITHIN THE PUBLIC RIGHT-OF-WAY, ALL LATERALS TO EXISTING SANITARY SEWERS WILL BE INSTALLED BY THE CITY OF DAYTON AT THE CONTRACTOR'S EXPENSE. THIS WORK WILL INCLUDE FURNISHING AND INSTALLING THE FITTINGS AND MAKING THE CONNECTION. ALL WORK INCLUDING EXCAVATION, BACKFILL, AND RESTORATION SHALL BE BY THE CONTRACTOR. CONTACT WATER ENGINEERING (937) 333-3742.
- 7. NO ADDITIONS. DELETIONS, OR REVISIONS TO THE SANITARY SEWER ARE TO BE MADE WITHOUT WRITTEN APPROVAL BY THE DEPARTMENT OF WATER.
- 8. DEPARTMENT OF WATER PERSONNEL WILL INSPECT THE SANITARY SEWER INSTALLATION.
- 9. ALL SANITARY LATERALS REQUIRE INSPECTION AND A PERMIT FROM THE CITY OF DAYTON DIVISION OF BUILDING INSPECTION.
- 10. ALL SANITARY SEWER CONSTRUCTION AND MATERIAL SHALL BE IN ACCORDANCE WITH THE CITY OF DAYTON CONSTRUCTION AND MATERIAL SPECIFICATIONS (LATEST EDITION) AND DEPARTMENT OF WATER ENGINEERING STANDARDS FOR WATER, SANITARY SEWER. AND STORM SEWER FACILITIES (LATEST EDITION).

SITE CONCRETE

- 1. ALL SITE CONCRETE SHALL BE CITY OF DAYTON CLASS D CONCRETE PER ITEM 499.
- 2. CONCRETE WITH FIBER REINFORCEMENT SHALL BE CLASS D CONCRETE WITH FIBERS ADDED TO THE MIX AT A RATE OF 1.5LB/CY. THE TYPE OF FIBERS SHALL BE FIBERSTRAND F FIBRILLATED POLYPROPYLENE MICRO-FIBER FROM THE EUCLID CHEMICAL COMPANY OR AN APPROVED EQUAL. THIS ITEM SHALL ALSO INCLUDE ALL MATERIAL, LABOR, AND EQUIPMENT NECESSARY TO BURN OFF EXPOSED FIBERS AT THE SURFACE OF THE CONCRETE PAVEMENT AS NEEDED AND DIRECTED BY THE ENGINEER.

EGEND	
— — — ST — — — ST —	EXISTING STORM SEWER
——————————————————————————————————————	EXISTING SANITARY SEWER
——————————————————————————————————————	EXISTING WATER
——————————————————————————————————————	EASMENT
X	EXISTING STEEL FENCE AND GATE
——— СОМ ——— СОМ —	EXITING COMMUNICATION FIBER OPTIC LINE
— — — OHL — — — OHL —	OVERHEAD LINE
	RIGHT-OF-WAY LINE
	PROPERTY LINE
φ	EXISTING UTILITY POLE
Ø	EXISTING LIGHT POLE
⊞	EXISTING STORM INLET
\otimes	EXISTING WATER VALVE
S	EXISTING SANITARY MANHOLE
D	EXISTING STORM MANHOLE
STST	PROPOSED STORM SEWER
	PROPOSED CONTOUR
×	PROPOSED FENCE
LOD	LIMITS OF DISTURBANCE
	MATCHLINE
F	PROPOSED TRAFFIC TURN SIGN
\bigotimes	INLET PROTECTION
→	MAJOR FLOOD ROUTING
	PROPOSED STORM INLET
	PROPOSED CURB INLET
PB	PROPOSED PULL BOX
	STABILIZED CONSTRUCTION ENTRANCE
	CONSTRUCTION WASHOUT AREA

LEGEND





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GENERAL NOTES

SHEET NO.







GENERAL: Catch Basins 2-2A and 2-2B are not intended for traffic bearing applications.

CATCH BASINS 2-2A & B This detail depicts Catch Basin 2-2A.

GRATE AND FRAME: The design shall be essentially the same and equally as strong as the one shown (see construction information table), or meets AASHTO M 306. If necessary, bicycle safe and traffic bearing grates shall be installed.

WALLS: Brick or cast-in-place walls have a nominal thickness of 8". Precast walls shall have a minimum thickness of 6" and be reinforced sufficiently to permit shipping and handling without damage. Brick shall not be used above the flow line of the side opening for Type 2-2A.

CONCRETE: Cast-in-place concrete is to be City of Dayton Class D. All precast concrete shall meet ODOT requirements.

PRECAST BASE: If a precast base is used, it shall be set deep enough so that the top can be placed on the base to provide the grate elevation specified in the plans. Layers of brick shall not be used to adjust the top elevation.

LOCATION AND ELEVATION: When given on the plans, location and elevation are at the top center of the grate. When side openings are provided, the elevation shall be at the flow line of the side inlet.

MINIMUM DEPTH: The minimum depth of CB No. 2-2A shall be the outside diameter (0.D.) of the outlet pipe plus 7".

OPENINGS: Pipe openings shall be the O.D. of the pipe being supplied plus 2" when fabricated or field cut. The interstitial space shall be filled with grout, no knockouts allowed.

2-2A SIDE INLETS: Inlets shall be provided on both sides of the No. 2-2A catch basin in sags and on upstream side only where the ditch has a continuous down grade past the catch basin. The flow line should be 4" to 6" below the normal elevation of the ditch flow line, returning to normal within 10' to 15' of the basin.

2-2B GRATE ELEVATION: Grate elevation is to be placed 4" to 6" below normal ditch returning to normal 10' to 15' each side of inlet.







NOTES:

damage.

ODOT requirements.

GRATE: See details on ST-1 weight of grate 120

sufficiently to permit shipping and handling without

STEPS: Steps shall be provided where the depth

City of Dayton Class D. All concrete shall meet

REINFORCEMENTS: Reinforcing in the top is to be

Catch Basin No. 2-3 use eight bars and for Catch

INLETS OVER 12 FEET IN DEPTH: Shall be precast

specified in the plans. Layers of brick shall not

provided, the elevation shall be at the flow line of

OPENINGS: Pipe openings shall be the O.D. of the pipe being supplied plus 2" when prefabricated or

diameter (O.D.) of the outlet pipe plus 7".

#4 bars spaced at 6" center to center. For

Basin No. 2-4 use twelve bars.

2" clearance from inside wall face.

exceeds 6' and shall meet the requirements of

CONCRETE: Cast-in-place concrete is to be





NO. DATE REVISIONS	320 W MONUMENT AVE	NO.
<u>1 5/13 Convert-AutoCAD</u> CATCH BASINS No. 2-3 & 2-4		1
(Sheet 2 of 2)	DATION, OHIO 43402	2
		3
DRAWING NO ST-2		
	INATER DEPARTMENT OF WATER	
SCALE: NOT TO SCALE	DIVISION OF WATER ENGINEERING	
DRAWN: JANUARY 2001 BY: JBS		

the side inlet.









Ν	10.	DATE	REVISIONS		
	1	5/13	Convert-AutoCAD	TURUST REACKING FOR WATER M	
	2	1/20	Added Notes 4&5	THRUST BLUCKING FOR WATER MA	411N
				DRAWING NO. WA-1	
				SCALE NOT TO SCALE	
_				DRAWN: JANUARY 2001	BY:
				Bratan of a brate 2001	-











FACE OF CORB DATA						
	Curve Table Center Point Table					
Curve #	Length	Radius	Delta	Point #	Northing	Easting
C1	22.83	15.00	87.22	1	642414.15	1479330.26
C2	7.85	5.00	90.00	2	642402.15	1479358.43
C3	7.85	5.00	90.00	3	642399.76	1479392.35
C4	15.71	10.00	90.00	4	642397.79	1479491.54
C5	15.71	10.00	90.00	5	642394.70	1479535.43
C6	24.53	15.00	93.70	6	642348.06	1479329.25
C7	7.85	5.00	90.00	7	642409.13	1479358.92
C8	9.16	5.00	105.00	8	642528.54	1479371.44
C9	3.93	3.00	75.00	9	642530.65	1479384.28
C10	15.71	5.00	180.00	10	642415.39	1479497.79
C11	4.71	3.00	90.00	11	642424.27	1479400.17
C12	4.71	3.00	90.00	12	642454.19	1479402.28
C13	4.71	3.00	90.00	13	642484.12	1479404.39
C14	4.71	3.00	90.00	14	642513.98	1479407.38
C15	4.71	3.00	90.00	15	642509.14	1479476.21
C16	9.16	5.00	105.00	16	642510.97	1479478.60
C17	4.14	7.00	33.85	17	642519.23	1479474.96
C18	0.72	1.00	41.15	18	642523.46	1479479.22
C19	5.76	2.00	165.00	19	642515.82	1479509.24
C20	7.85	5.00	90.00	20	642506.33	1479687.01
C21	7.85	2.50	180.00	21	642474.03	1479697.27
C22	7.85	5.00	90.00	22	642413.51	1479681.11
C23	7.85	2.50	180.00	23	642425.65	1479530.09
C24	4.71	3.00	90.00	24	642478.64	1479482.20
C25	9.16	5.00	105.00	25	642449.99	1479490.42
C26	4.71	3.00	90.00	26	642448.72	1479480.09
C27	9.16	5.00	105.00	27	642484.11	1479518.44
C28	4.71	3.00	90.00	28	642485.71	1479524.16
C29	6.98	3.00	133.30	29	642456.33	1479522.10
C30	2.77	5.00	31.70	30	642457.69	1479523.57
C31	4.71	3.00	90.00	31	642475.81	1479664.82
C32	7.85	5.00	90.00	32	642473.74	1479665.67
C33	7.85	5.00	90.00	33	642447.81	1479663.85
C34	4.71	3.00	90.00	34	642445.88	1479662.71
C35	3.93	3.00	75.00	35	642478.31	1479486.97

Line #	Length	Start Northing
L1	28.94'	642399.19
L2	99.09 '	642387.81
L3	228.00'	642368.71
L4	430.40'	642332.80
L5	7.00'	642408.78
L6	13.00'	642415.03
L7	105.00'	642519.77
L8	12.10'	642523.56
L9	6.66'	642536.03
L10	7.03'	642536.98
L11	12.25'	642527.66
L12	127.00'	642526.80
L13	18.00'	642415.04
L14	13.00'	642415.74
L15	90.00'	642402.77
L16	15.00'	642409.10
L17	2.50'	642427.26
L18	24.00'	642427.44
L19	2.50'	642451.38
L20	30.00'	642453.98
L21	2.50'	642487.11
L22	24.00'	642487.29
L23	3.39'	642511.23
L24	15.00'	642513.77
L25	63.00'	642524.31
L26	15.00'	642524.31
L27	8.80'	642511.93



EACE OF CUER DATA

FACE OF CURB DATA

Line Table Line Table Start Easting End Northing End Easting Line # Length Start Northing Start Easting End Northing End Easting 1479329.21 642397.16 | 1479358.08 L28 8.53' 642525.06 1479470.78 642524.46 1479479.29 1479490.84 642394.77 | 1479392.00 L29 23.98' 1479466.21 642525.06 1479470.78 642548.61 1479762.17 642384.72 | 1479534.73 L30 | 13.47' 642551.17 1479479.43 642548.61 1479466.21 1479759.64 642363.03 1479330.30 L31 38.53' 642553.26 1479499.94 1479507.28 642515.44 1479363.91 642401.79 | 1479363.42 L32 16.02' 1479511.23 1479512.36 642515.68 642531.65 1479346.31 642414.12 1479359.27 L33 | 171.00' 642531.65 1479512.36 642519.64 1479682.94 1479353.68 642415.03 1479346.31 L34 | 13.00' 1479682.02 642519.64 1479682.94 642506.68 1479371.09 642524.41 1479359.02 1479763.97 L35 77.50' 642501.34 1479686.66 642495.89 642529.50 1479376.35 1479375.08 L36 65.00' 642476.52 1479697.45 642471.95 1479762.29 642530.08 1479381.33 1479379.99 L37 | 15.50' 1479697.10 1479712.56 642471.53 642470.44 1479384.07 642526.80 | 1479396.28 1479712.56 1479708.76 L38 54.00' 642470.44 642416.58 1479396.28 642400.11 1479387.36 1479681.46 L39 27.37' 642418.50 642416.58 1479708.76 642397.08 1479502.78 1479501.52 1479676.13 642399.90 1479675.14 L40 14.00' 642413.86 1479492.80 642402.77 1479491.89 L41 | 144.00' 1479675.14 1479531.50 642399.90 642410.01 1479491.89 642409.10 1479402.11 L42 15.50' 642425.47 1479532.59 642410.01 1479531.50 1479402.11 642424.06 1479403.17 642395.40 1479525.46 L43 30.50' 642425.82 1479527.60 1479400.39 642427.44 1479397.89 L44 30.00' 642448.93 1479477.10 642478.85 1479479.20 1479397.89 642451.38 1479399.58 L45 28.45' 642478.88 1479489.92 642450.95 1479495.33 1479399.58 642451.20 1479402.07 1479490.07 1479479.88 L46 | 10.22' 642445.01 642445.72 1479405.27 642483.91 1479407.38 1479513.53 1479518.66 L47 26.92' 642483.16 642456.73 642487.29 1479402.11 1479404.60 1479524.37 1479518.79 L48 5.60' 642488.70 642489.10 1479402.11 642511.23 1479525.09 1479403.79 642485.50 1479527.16 L49 29.46' 642456.12 L50 30.00' 1479403.79 642510.99 1479407.17 1479659.72 642476.02 1479661.82 642446.09 1479410.37 642528.74 1479411.43 L51 26.00' 642473.39 1479670.66 642447.46 1479668.83 1479474.27 642528.74 1479411.43 L52 642506.15 1479476.00 642505.99 1479478.25 2.26' 1479474.27 642509.35 | 1479473.22 L53 4.79' 642481.64 1479482.41 642481.30 1479487.18 642520.57 1479481.83 1479483.51

NOTE: CONCRETE BARRIER CURB PER STD DWG 8/45. SEE SHEET CO.3.

		STOR	RM STRUCTURE	TABLE			
						AS-BUILT	
NUMBER	TYPE	RIM	NORTHING	EASTING	RIM	NORTHING	EASTING
1	OUTLET-CB NO.3A, STD DRAWING ST-2	774.00	642295.9624	1479694.2505			
2	CONCRETE PIPE HEADWALL, STD DRAWING ST-8	771.00	642298.7303	1479532.1760			
3	MANHOLE TYPE A PER G-3	778.00	642302.7706	1479481.3363			
4	CURB INLET – CB NO.3A PER ST-5	775.44	642351.6281	1479485.0703			
5	CURB INLET – CB NO.3A PER ST-5	775.44	642387.5244	1479487.8275			
6	STANDARD CATCH BASIN, NO.2-2B PER ST-1	775.00	642434.1845	1479472.9515			
7	STANDARD CATCH BASIN, NO.2-2B PER ST-1	775.00	642494.0347	1479477.1519			
8	STANDARD CATCH BASIN, NO.2-2B PER ST-1	775.35	642500.7050	1479382.4137			
9	OUTLET-CB NO.3A, STD DRAWING ST-2	770.00	642310.8157	1479609.0872			
10	CURB INLET – CB NO.3A	774.18	642343.7344	1479611.4051			
11	CURB INLET – CB NO.3A	774.18	642378.6478	1479613.8637			
12	STANDARD CATCH BASIN, NO.2-2B PER ST-1	775.00	642434.1354	1479617.7705			
13	STANDARD CATCH BASIN, NO.2-2B PER ST-1	775.00	642493.8626	1479621.9755			
14	STANDARD CATCH BASIN, NO.2-2B PER ST-1	775.00	642439.9808	1479532.9737			
15	STANDARD CATCH BASIN, NO.2-2B PER ST-1	775.00	642500.7448	1479524.2174			
16	STANDARD CATCH BASIN, NO.2-2B PER ST-1	770.50	642526.1878	1479738.4024			
17	STANDARD CATCH BASIN, NO.2-2B PER ST-1	771.50	642546.4179	1479671.3885			
E1	EXISTING MANHOLE 50004				771.91	642426.1760	1479800.7020
E2	EXISTING MANHOLE 50145				770.89	642553.8380	1479802.7090

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S U NO 0 Ш Z ()ISSUE NO. DATE DESCRIPTION DATE 8/14/2024 4205.00 JOB NO. DRAWN ΚT CHECKED JFD COPYRIGHT © 2024 - App Architecture, Inc. TITLE **GRADING AND** DRAINAGE PLAN SHEET NO. **C6.0**







<u>LEGEND</u> ADA DETECTABLE WARNING SURFACE





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Profile View of STM 17 TO MH-50145

HORIZONTAL SCALE 1"=20' VERTICAL SCALE: 1"=5'



CODED NOTES: COMPACTED GRANULAR BACKFILL PER ITEM 813.







PROFILES

SHEET NO.

C7.2



CITY OF DAYTON, OHIO STORM WATER POLLUTION PREVENTION PLAN

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	r_{1} — LS – Abbey Avenue r_{2} — r_{2} – LS – – – –	- M = - M		
-RW				· · · · · · · · · · · · · · · · · · ·
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<u>FEMA</u>	<u>FL00</u>	DPLA		<u>DA1</u>	<u> </u>
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LOCATED	WITHIN	ZONE	Х (А	AREA	OF

SURVEYOR	_
	-

CESO 3601 RIGBY ROAD, SUITE 300 MIAMISBURG, OH 45342 CONTACT: RICK CROSS PHONE: (937) 848–0585

KABIL ASSOCIATES 5900 SHARON WOODS BLVD COLUMBUS, OH 43229 CONTACT: JEFF EDWARDS PHONE: (614) 899-6707 EMAIL: jedwards@kabil.com

SITE DATA	
PARCEL ID	R27-00111-0012
PARCEL AREA	15.78 ACRES
PROJECT AREA	4.07 ACRES
DISTURBED AREA WITHIN PROPERTY	3.31 ACRES
DISTURBED AREA WITHIN RIGHT-OF-WAY	0.76 ACRES
TOTAL DISTURBED AREA	3.91 ACRES
EXISTING IMPERVIOUS AREA	1.22 ACRES
EXISTING PERCENT IMPERVIOUS AREA	30%
PROPOSED IMPERVIOUS AREA	1.84 ACRES
PROPOSED PERCENT IMPERVIOUS AREA	45%

SURVEYOR NOTES:

- 1. BEARINGS BASED ON U.S. STATE PLANE, NAD83 OHIO SOUTH (3402) ESTABLISHED FROM USING THE OHIO REAL TIME NETWORK (RTN) PROVIDED BY THE OHIO DEPARTMENT OF TRANSPORTATION. COORDINÀTES TAKEN TO GROUND AT LATITUDE N39°45'01.92872", LONGITUDE W84°14'19.62436", PROJECT HEIGHT 669.459', GROUND SCALE FACTOR 1.00007573185807.
- 2. THE UTILITIES SHOWN ARE LOCATED FROM FIELD SURVEY INFORMATION AND/OR EXISTING DRAWINGS SUPPLIED BY CLIENT. THE SURVEYOR MAKES NO GUARANTEE THAT THE UTILITIES LOCATED COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UTILITIES LOCATED ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. OUPS TICKETS REFERENCED FOR THIS PROJECT: B407300375-00B, B407300379-00B, B407300387-00B, AND B407300391-00B. FOR UTILITY LINES OR SERVICE LOCATIONS ON PRIVATE PROPERTY CESO RECOMMENDS CONTRACTING A PRIVATE UNDERGROUND UTILITY LOCATION SERVICE.

	BENCHMARK Vertical Datum: NAVD88 derived from GPS Observations
BM "A":	GROUND "X" ON "ARROW" (SOUTH WEST, 1 OF 4) BOLT ON FIRE HYDRANT LOCATED ABOUT $35'\pm$ WEST OF CENTERLINE OF INLAND AVE. AND ABOUT $395'\pm$ SOUTH OF W. 3RD STREET CENTERLINE. ELEVATION = 775.42'
BM "B":	BENCH TIE SET IN EAST SIDE (1' ABOVE GRADE) OF POWER POLE LOCATED ON NORTHWEST CORNER OF BROOKLYN AVE. AND WEST 3RD STREET, ABOUT 60'± WEST OF BROOKLYN AVE. CENTERLINE AND ABOUT 3.5' NORTH OF THE CURB LINE OF WEST 3RD STREET. ELEVATION = 777.45'
BM "C":	BENCH TIE SET IN SOUTHEAST SIDE (1' ABOVE CONCRETE) OF POWER POLE $\#135-29R$ LOCATED 2' EAST OF CURB LINE OF SHOOP AVE. AND ABOUT 75'± NORTH OF WEST 3RD STREET CENTERLINE. ELEVATION = 773.16'

FOR **NEW POLICE STATION** 10 ABBY AVENUE DAYTON, OHIO



INDEX MAP SCALE: 1"=50'

MAP SERVICE CENTER, THE SUBJECT PARCEL IS OF MINIMAL FLOOD HAZARD) AS INDICATED BY FEMA MAP NUMBER 39113C0163E WITH AN EFFECTIVE DATE OF JANUARY 6, 2005.

ENGINEER

<u>OWNER</u>

CITY OF DAYTON, OHIO CONTACT: DAVID ESCOBAR PHONE: 937-333-3849 EMAIL: WWW.DAYTONOHIO.GOV



DISTREET OVER CONTRACTOR OF CO	Kabil Associates, Inc.EngineersArchitectsPlanners5900 Sharon Woods Boulevard Columbus, Ohio 43229Phone: (614) 899-6707Fax: (614) 899-7503	App . Architecture	615 Woodside Drive, Englewood, Ohio 45322	T 937.836.8898 F 937.832.3696 www.app-arch.com
ALE			James R James R James R STEP ONAL	
		CITY OF DATTON	NEW POLICE STATION	던 10 Abbey Ave, Dayton, Ohio 45417
SHEET INDEX SHEET NUMBER SHEET TITL C8.0 SWPPP TITLE C8.1 SWPPP GENEL C8.2 SWPPP SITE C0.00000000000000000000000000000000000	_E SHEET RAL EROSION TES AND EROSION AN	DATE JOB NO. DRAWN CHECKEE COPYRIGHT TITLE SWPF	8/14/20 4205.00 KT JFD © 2024 - App Architec PP TITLE S O. 28	24) ture, Inc. HEET

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SI Melaly paragonay+ +	US 35 SR 4 C 1 Molin Jr Expressway + Home Avenue
44 US 35 SR4 Home Avenue + Hame Avenue	Ethel Avenue South Artmore Ave

LOCATION NOT TO SC

STOR	MWATER POLLUTION	PREVENTION PLAN SITE NARRATIVE	THE DIRECT DISCHARGE O
OEPA PERM	A NPDES GENERAL IIT (OHCOOOOO6) NO:	1GC10009	BE HELD LIABLE FOR THE
PLAN	I DESIGNER:	JAMES DIXON, PE KABIL ASSOCIATES 5900 SHARON WOODS BLVD., COLUMBUS, OHIO 43229 PHONE / EMAIL: 614–361–8329 / JDIXON@KABIL.COM	ALL INLETS RECEIVING FLO BE FITTED WITH AN INLET THE DISCHARGE OF SEDIM PROTECTION IS REQUIRED INLET IS TRIBUTARY TO A
DEVE	LOPER / OWNER	CITY OF DAYTON OHIO	ALL EROSION AND SEDIME DISCRETION OF THE CITY
PROJ	ECT DESCRIPTION:	PROPOSED BUILDING AND ASPHALT PARKING	ANY FXISTING STORM IN F
SITE	DRAINS TO:	EXISTING CITY OF DAYTON STORM SEWER	APPROPRIATE INLET PROT
EXIS	TING SITE CONDITION:	ABANDONED COMMERCIAL PROPERTY	PRIOR TO CONSTRUCTION CONTROL FEATURES SHAL DIMENSIONS MAY BE MADE
ADJA	CENT AREAS:	COMMERCIAL	
CRITI	CAL AREAS:	NONE	AFTER CONSTRUCTION OF OR DAM.
SOILS	5:	PER SOILS WEB SURVEY: CROSBY—URBAN LAND COMPLEX, 0 TO 2% SLOPE 95.3% MIAMIAN—URBAN LAND COMPLEX, UNDULATING 4.7%	IT MAY BECOME NECESSAI FACILITATE THE GRADING IN THE EVENING OR DURIN
EROS SEDIN	SION AND MENT MEASURES:	PERMANENT EROSION AND SEDIMENTATION WILL BE CONTROLLED BY DRY	THE LIMITS OF SEEDING A OUTSIDE THE SEEDING LIM
		DETENTION FACILITY WITH CONTROLLED RELEASE FOR WATER QUANTITY AND QUALITY. TEMPORARY MEASURES DURING CONSTRUCTION INCLUDE: THE USE OF INLET PROTECTION AT STORM SEWER INLETS, SEDIMENT FENCE AT PERIMETER, CONSTRUCTION ENTRANCES, CONCRETE WASHOUT AND THE USE OF CONSTRUCTION TECHNIQUES TO MINIMIZE EROSION AND SEDIMENT	THE COST FOR TEMPORAR EARTHMOVING OPERATIONS CONTROL QUANTITIES.
		RUNOFF.	NOT ALL DETAILS ON THIS
PERM STAB	IANENT BILIZATION:	ALL DISTURBED AREAS WILL BE SEEDED AND MULCHED OR PAVED.	THE CONTRACTOR SHALL VEHICLES AND EQUIPMENT CONSTRUCTION OF A STA
MAIN	TENANCE:	ALL EROSION CONTROL DEVICES ARE TO BE INSPECTED BY THE CONTRACTOR DAILY AND AFTER RAINFALLS. ANY DAMAGED FACILITIES ARE TO BE REPLACED/ REPAIRED IMMEDIATELY AS MAY BE NECESSARY.	THE CONTRACTOR SHALL DISCHARGED INTO STORMU USE OF SEDIMENT FILTERII
CONS SEQU	STRUCTION JENCE:	CONTRACTOR SHALL PROVIDE A SCHEDULE OF OPERATIONS TO THE CITY. SEDIMENTATION AND EROSION CONTROL FEATURES SHALL BE PLACED AND MAINTAINED IN ACCORDANCE WITH THIS SCHEDULE. SEE BELOW FOR MORE	SURFACE WATERS. CONCR MAN-MADE CHANNELS OR CONCRETE SHALL BE CON WASTE MATERIALS SHALL
THE MAIN	PROPERTY OWNER, IT TAIN THE STORM WA	TS ADMINISTRATORS, EXECUTORS, SUCCESSORS, HEIRS OR ASSIGNS SHALL TER CONTROL FACILITY OF FACILITIES IN GOOD WORKING CONDITION	THE CONTRACTOR OR DEV WHICH MAY BE NECESSAR CONTRACTOR TO MAINTAIN DURATION OF CONSTRUCT SUCH PROVISIONS POST C
ACCL	VITIES IN THE STORM	WATER CONTROL FACILITY MAINTENANCE PLAN (SCPMP).	THE CONTRACTOR SHALL LEAVES THE PROJECT, INC
NOTE	S		ACCEPTED METHODS OF P
1.	WATER QUANTITY CO DETENTION AREA AN	ONTROL REQUIREMENTS FOR THIS PLAN ARE PROVIDED BY THE PROPOSED ID OUTLET STRUCTURE.	SEDIMENT BASINS, SILT FI HAY OR STRAW BALES AF
2		TAME LOCATED IN THE IMMEDIATE VICINITY OF THIS SITE AND NO DODTION OF	DETAILS HAVE BEEN PROV

THERE ARE NO STREAMS LOCATED IN THE IMMEDIATE VICINITY OF THIS SITE AND NO PORTION OF THIS SITE DRAINS TO A STREAM.

SEQUENCE OF EROSION & SEDIMENT CONSTRUCTION

- 1. INSTALL PERIMETER FABRIC FENCE
- INSTALL ALL TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES AS INDICATED IN THE 2. PLAN. PRACTICES ARE TO BE MAINTAINED IN EFFECTIVE WORKING CONDITION DURING CONSTRUCTION UNTIL THE DRAINAGE AREAS HAVE BEEN PERMANENTLY STABILIZED.
- 2.1. INSTALL TEMPORARY EROSION CONTROL'S PER PLAN, INCLUDE: DANDY BAGS, CONCRETE WASHOUT, CONSTRUCTION ENTRANCE.
- REMOVE ONLY THOSE TREES. SHRUBS. AND GRASSES THAT MUST BE REMOVED FOR 3. CONSTRUCTION; PROTECT THE REST TO PRESERVE THEIR ASTHETIC AND EROSION-CONTROL VALUES.
- TEMPORARY STABILIZE EACH SEGMENT, GRADED OR OTHERWISE DISTURBED LAND, INCLUDING THE 4 SEDIMENT-CONTROL DEVICES NOT OTHERWISE STABILIZED, BY SEEDING AND MULCHING OR BY MULCHING ALONE, AS CONSTRUCTION IS COMPLETED. PERMANENTLY STABILIZE EACH SEGMENT WITH PERENNIAL VEGETATION AND STRUCTURAL MEASURES.
- 5. INSTALL THE STORM SEWER NETWORK AS DIRECTED PER PLAN. (WAIT TO MAKE FINAL CONNECTION FERTILIZER: ONCE THE ENTIRE PERMANENT STORM NETWORK IS INSTALLED). MULCH:
- 6. CONSTRUCT PROPOSED BUILDING, PAVEMENT, WALKS, AND UTILITY SERVICES.
- 7. LEVEL DIVERSION DIKES, SEDIMENT BASIN AND SILT TRAPS AFTER AREAS THAT DRAIN INTO THEM ARE STABILIZED. ESTABLISH PERMANENT VEGETATION ON THESE AREAS.

EROSION CONTROL GENERAL NOTES

IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE SEDIMENTATION AND EROSION CONTROL ON THIS PROJECT. ANY SEDIMENT OR DEBRIS WHICH HAS REDUCED THE EFFICIENCY OF A CONTROL SHALL BE REMOVED IMMEDIATELY. SHOULD A STRUCTURE OR FEATURE BECOME DAMAGED, THE CONTRACTOR SHALL REPAIR OR REPLACE AT NO ADDITIONAL COST TO OWNER.

THE SITE SHALL BE INSPECTED PERIODICALLY AND WITHIN 24 HOURS OF A SIGNIFICANT RAINFALL. RECORDS OF THESE INSPECTIONS SHALL BE KEPT AND MADE AVAILABLE TO JURISDICTIONAL AGENCIES IF REQUESTED.

NOT ALL EROSION CONTROL MEASURES SHOWN WILL BE IN USE AT THE SAME TIME. PHASING SHALL BE RATES OF APPLICATION OF ITEM 659: DETERMINED BY THE CONTRACTOR AND EROSION CONTROL DEVICES SHALL BE MODIFIED ACCORDINGLY.

STREET CLEANING (ON AN AS-NEEDED BASIS) IS REQUIRED THROUGH THE DURATION OF THIS CONSTRUCTION PROJECT. THIS INCLUDES SWEEPING, POWER CLEANING AND (IF NECESSARY) MANUAL REMOVAL OF DIRT OR MUD IN THE STREET GUTTERS.

THIS PLAN MUST BE POSTED ON-SITE. A COPY OF THE SWPPP PLAN AND APPROVED EPA STORMWATER PERMIT (WITH THE SITE SPECIFIC NOI NUMBER) SHALL BE KEPT ON-SITE AT ALL TIMES. AUGUST 1 TO NOVEMBER SEED: FERTILIZER:

AT THE FOLLOWING RATES:

MARCH 1 TO AUGUST 15

MULCH:

SEED:

NOVEMBER 1 TO MARCH MULCH (ONLY):

"PERMANENT SEEDING" SHALL BE DONE BETWEEN MARCH 15 AND SEPTEMBER 15. IF SEEDING IS DONE BETWEEN SEPTEMBER 15 AND MARCH 15, IT WILL BE CLASSIFIED AS "TEMPORARY SEEDING". PERMANENT SEEDING SHALL BE 40% KENTUCKY BLUE GRASS, 40% CREEPING RED FESCUE, 20% ANNUAL RYEGRASS. PERMANENT SEEDING SHALL CONSIST OF FERTILIZING, WATERING AND SEEDING RATES INDICATED UNDER ITEM 659. SEEDING SHALL BE APPLIED WITHIN TWO (2) DAYS AFTER FINAL GRADING OR FOLLOWING SEED BED PREPARATION.

SEED: FERTILIZER: STRAW (HAY)

THE DIRECT DISCHARGE OF SEDIMENT LADEN WATER TO THE CITY'S SEWER SYSTEM OR A RECEIVING OF OHIO EPA AND CITY OF COLUMBUS REGULATIONS. THE CONTRACTOR WILL VIOLATION AND SUBSEQUENT FINES.

> OW FROM RUNOFF, PUMPING ACTIVITIES, OR OTHER DIRECT DISCHARGES SHALL PROTECTION DEVICE THAT IS PROPERLY SIZED AND SECURED TO REDUCE MENT INTO THE STORM SEWER SYSTEM AND RECEIVING STREAM. INLET ON ALL INLETS RECEIVING DISCHARGE REGARDLESS OF WHETHER OR NOT THE ANY DOWNSTREAM EROSION AND SEDIMENT CONTROLS.

ENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATION AT THE OF DAYTON AND/OR THE OEPA.

ETS IMPACTED BY THE NEW CONSTRUCTION ACTIVITY WILL NEED THE FECTION FOR SEDIMENT CONTROL.

OPERATIONS IN A PARTICULAR AREA, ALL SEDIMENTATION AND EROSION L BE IN PLACE. FIELD ADJUSTMENTS WITH RESPECT TO LOCATIONS AND E BY THE ENGINEER.

PLACE INLET AND CHANNEL PROTECTION FOR EROSION CONTROL IMMEDIATELY THE INLETS OR CHANNELS WHICH ARE NOT TRIBUTARY TO A SEDIMENT BASIN

ARY TO REMOVE PORTIONS OF THE BARRIER DURING CONSTRUCTION TO OPERATIONS IN CERTAIN AREA. HOWEVER THE BARRIER SHALL BE IN PLACE ING ANY INCLEMENT WEATHER.

AND MULCHING ARE SHOWN WITHIN THE PLANS. THOSE AREAS DISTURBED MITS SHALL BE SEEDED AND MULCHED AT THE CONTRACTOR'S EXPENSE.

RY CHANNELS, SEDIMENT DAMS, SEDIMENT BASINS, AND OTHER APPURTENANT S SHALL BE INCLUDED IN THE PRICE BID FOR EROSION AND SEDIMENTATION

IS SHEET MAY BE REQUIRED FOR THIS PROJECT.

BE RESPONSIBLE TO ENSURE THAT OFF-SITE TRACKING OF SEDIMENTS BY IS MINIMIZED. ALL SUCH OFF-SITE SEDIMENT SHALL BE CLEANED DAILY. BILIZED CONSTRUCTION ENTRANCES ARE PART OF THAT RESPONSIBILITY.

BE RESPONSIBLE TO ENSURE THAT NO SOLID OR LIQUID WASTE IS WATER RUNOFF. SEDIMENT-LADEN WATER SHALL BE FILTERED THROUGH THE ING FENCES OR SEDIMENTATION BASINS PRIOR TO THE DISCHARGE TO RETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR INTO NATURAL OR SWALES LEADING THERETO. CONCRETE TRUCK WASH WATER AND SURPLUS IFINED TO AREAS APPROVED BY THE ENGINEER; AFTER SOLIDIFYING, THESE BE REMOVED FROM THE SITE.

VELOPER IS RESPONSIBLE FOR SUBMITTING ALL PERMIT AND DOCUMENTS RY FOR THE PERFORMANCE OF THIS WORK. IT IS THE RESPONSIBILY OF THE N COMPLIANCE WITH ALL OHIO EPA STANDARD AND REGULATIONS FOR THE TION. THE OWNER IS RESPONSIBLE TO MAINTAINING COMPLIANCE WITH ANY CONSTRUCTION.

PROVIDE SEDIMENT CONTROL AT ALL POINTS WHERE STORM WATER RUNOFF ICLUDING WATERWAYS, OVERLAND SHEET FLOW, AND STORM SEWERS.

PROVIDING EROSION/SEDIMENT CONTROL INCLUDE BUT ARE NOT LIMITED TO: LTER FENCE, AGGREGATE CHECK DAMS, AND TEMPORARY GROUND COVER. RE NOT PERMITTED

VIDED ON THE PLANS IN EFFORT TO HELP THE CONTRACTOR PROVIDE EROSION AND SEDIMENTATION CONTROL. THE DETAILS SHOWN ON THE PLAN SHALL BE CONSIDERED A MINIMUM. ADDITIONAL OR ALTERNATE DETAILS MAY BE FOUND IN THE O.D.N.R. MANUAL "RAINWATER AND LAND DEVELOPMENT". THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING NECESSARY AND ADEQUATE MEASURES FOR PROPER CONTROL OF EROSION AND SEDIMENT RUNOFF FROM THE SITE ALONG WITH PROPER MAINTENANCE AND INSPECTION IN COMPLIANCE WITH STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY.

THE CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE OF THE WORK AREA AT ALL TIMES CONSISTENT WITH FROSION CONTROL PRACTICES.

DISTURBED AREAS THAT WILL REMAIN UNWORKED FOR 30 DAYS OR MORE SHALL BE SEEDED OR PROTECTED WITHIN SEVEN CALENDAR DAYS OF THE DISTURBANCE. OTHER SEDIMENT CONTROLS THAT ARE INSTALLED SHALL BE MAINTAINED UNTIL VEGETATIVE GROWTH HAS BEEN ESTABLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY SEDIMENT DEVICES AT THE CONCLUSION OF CONSTRUCTION BUT NOT BEFORE GROWTH OF PERMANENT GROUND COVER.

"TEMPORARY SEEDING" NO AREA WHICH GRADING HAS BEEN COMPLETED OR WHERE A DENUDED AREA <u>WILL REMAIN IDLE FOR MORE THAN 21 DAYS SHALL BE LEFT UNSEEDED FOR LONGER THAN 7 DAYS.</u> IF PERMANENT SEED IS NOT APPLIED AT THIS TIME, TEMPORARY SEEDING SHALL BE DONE

OATS (12:12:12) (STRAW OR HAY)	2 LBS./1,000 SF 25 LBS./1,000 SF 2 TONS/ACRE	
<u>1</u>		
ANNUAL RYE	2 LBS./1,000 SF	
(12:12:12)	25 LBS./1,000 SF	
(STRAW OR HAY)	2 TONS/ACRE	
1		
<u>-</u> (STRAW OR HAY)	2 TONS/ACRE	

4 LBS./1,000 SF (12:12:12)20LBS./1,000 SF 2 TONS/ACRE (3 TONS/ACRE)



- 1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
- 2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" (225mm) MAXIMUM RECOMMENDED STORAGE HEIGHT.
- 3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
- 4. STRAW WATTLES OR COMPOST ROLLS HAVE TO BE A MINIMUM OF 12" IN DIAMETER, PER OEPA STANDARD.
- 5. THE USE OF STRAW WATTLES HAS PROVEN TO BE A VERSATILE AND EFFECTIVE ESC BMP, ESPECIALLY IN RESIDENTIAL SETTINGS. STRAW WATTLES MAY SUBSTITUTED FOR SILT FENCE. STRAW WATTLES OR COMPOST ROLLS HAVE TO BE A MINIMUM OF 12 INCHES IN DIAMETER NOW (OEPA).
- 6. THE USE OF COMPOST FILTER SOCKS AND COMPOST BLANKETS ARE GAINING WIDER ACCEPTANCE NATIONWIDE. THEY ARE NOW APPROVED FOR USE ON ALL COLUMBUS SWP3 PLANS AND CONSTRUCTION SITES.

TYPICAL SILT FENCE DETAIL N.T.S.



INSTALLATION

SECTION A

STAND GRATE ON END. PLACE DANDY BAG OVER GRATE. FLIP GRATE OVER SO THAT OPEN END IS UP. PULL UP SLACK. TUCK FLAP IN. BE SURE END OF GRATE IS COMPLETELY COVERED BY FLAP OR DANDY BAG WILL NOT FIT PROPERLY. HOLDING HANDLES, CAREFULLY PLACE DANDY BAG WITH GRATE INSERTED INTO CATCH BASIN FRAME SO THAT RED DOT ON THE TOP OF THE DANDY BAG IS VISIBLE.

MAINTENANCE: CONTRACTOR TO INSPECT AND CLEAR DEBRIS FROM CLOGGED DANDY BAGS. AFTER SILT HAS DRIED, REMOVE IT FROM THE SURFACE OF DANDY BAG WITH BROOM.

INSTALL DANDY BAG EROSION CONTROL FILTER BY DANDY PRODUCTS. GROVE CITY, OHIO, OR EQUAL.

DANDY BAGS MUST BE PLACED ON: ALL PROPOSED AND EXISTING CATCH BASINS LOCATED ON THE PROPERTY AND ALL CATCH BASINS IMMEDIATELY DOWN STREAM OF THE SITE, INCLUDING BUT NOT LIMITED TO: EXISTING STRUCTURE 50222, & 50079 AND PROPOSED STRUCTURES 1-17. REFERENCE THE SITE PREPARATION PLAN AND MASTER DRAINAGE PLAN FOR MORE INFORMATION.

TYPICAL DANDY BAG DETAIL N.T.S.

- NOTES:

- 1. THE PUMPING OR DIRECT DISCHARGE OF SEDIMENT-LADEN (MUDDY) WATER TO THE CITY'S SEWER SYSTEM OR RECEIVING STREAM IS A VIOLATION OF OHIO EPA AND CITY OF REYNOLDSBURG REGULATIONS.
- 2. ALL INLETS RECEIVING FLOW FROM RUNOFF, PUMPING ACTIVITIES, OR OTHER DIRECT DISCHARGES SHALL BE FITTED WITH AN INLET PROTECTION DEVICE THAT IS PROPERLY SIZED AND SECURED TO REDUCE THE DISCHARGE OF SEDIMENT INTO THE STORM SEWER SYSTEM AND RECEIVING STREAM. INLET PROTECTION IS REQUIRED ON ALL INLETS RECEIVING DISCHARGE REGARDLESS OF WHETHER OR NOT THE INLET IS TRIBUTARY TO ANY DOWNSTREAM EROSION AND SEDIMENT CONTROLS.
 - 3. DISCHARGE HOSES USED DURING PUMPING ACTIVITIES SHALL BE FITTED WITH SEDIMENT BAGS THAT ARE PROPERLY SIZED PER MANUFACTURE'S RECOMMENDATION REGARDLESS OF WHAT OTHER SEDIMENT CONTROLS ARE IN PLACE FURTHER DOWNSTREAM. SEDIMENT BAGS MUST BE PROPERLY SECURED TO THE DISCHARGE HOSE AND PLACED OVER VEGETATED AREAS, WHERE FEASIBLE, DURING DISCHARGE. SEE DETAILS BELOW OF A TYPICAL SEDIMENT **BAG INSTALLATION.**
 - PROPOSED DETENTION BASINS ARE TO BE USED AS A TEMPORARY SEDIMENTATION BASINS WITH A FAIRCLOTH SKIMMER UNTIL THE SITE IS STABILIZED. SEE DETAILS THIS SHEET. AFTER THE SITE HAS BEEN STABILIZED. THE BASINS SHALL BE EXCAVATED TO PLAN DESIGN AND GEOTEXTILE FABRIC. AGGREGATE, UNDERDRAIN, AND OUTLET ORIFICE ARE TO BE CONSTRUCTED. SEE SHEET 13 FOR DETAILS.

PERMANENT STABILIZATION

A REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
REAS THAT WILL LIE DORMANT FOR ONE OR MORE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE
REAS WITHIN 50 FEET OF A SURFACE OF THE STATE AND AT FINAL GRADE	WITHIN TWO DAYS OF REACHING FINAL GRADE
AREAS AT FINAL GRADE	WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREA
TEMPORARY S	STABILIZATION
A REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
REAS WITHIN 50 FEET OF A SURFACE OF THE	WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS
STURBED AREAS THAT WILL BE DORMANT ORE THAN 14 DAYS BUT LESS THAN ONE AND NOT WITHIN 50 FEET OF A SURFACE OF THE STATE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA.





DATE 8/14/2024 JOB NO. 4205.00 KΤ DRAWN CHECKED JFD COPYRIGHT © 2024 - App Architecture, Inc.

TITI F SWPPP GENERAL EROSION CONTROL NOTES AND DETAILS









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	<u>SOUT</u> 343 -	TH ALLE ± LF / 4	\dot{Y} - NORTH SIDE O = 8.58 or 9 TREES REQUIRED	- (NO TREES AT STREET INTERSECTIO	5 PROPC 9 TREES A NS FOR 5	OSED TREES AS SHOWN DIGHT LINES) DIGS SHOWN				5 Woodside I T 9;
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<text></text>	INLAN 320±	ND AVEN ± LF / 4	$\frac{1UE}{0} = 8 \text{ TREES REQUIRED}$	(NO TREES AT STREET INTERSECTION	9 TREES	6 AS SHOWN				
	INLAN 400=	ND AVEN ± LF / 4	$\frac{1UE}{O} = 10 \text{ TREES REQUIRED}$	(NO TREES AT STREET INTERSECTION	I I TREES	6 AS SHOWN		B	ATE	OF OH
Note of the control o	LANDS WITHI PARK 2.5 II LANDS COUN	GCAPING IN THE I ING SP/ NCHES ISCAPEL ISCAPEL NTED AS	OF PARKING LOTS: ANDSCAPED ISLANDS, ONE (1) S ACES. EACH TREE, AT THE TIME O AND A CLEAR TRUNK HEIGHT OF AREAS ADJACENT TO THE PERIN 5 INTERIOR PARKING LOT LANDSO / 10 = 11.5 or 12 TREES REQL	GHADE TREE SHALL BE PROVIDED FOR DF INSTALLATION, SHALL HAVE A MINII AT LEAST SIX (G) FEET. METER OF THE PARKING AREA SHALL N CAPED AREAS.	R EVERY T MUM CAL NOT BE 12 TREES	EN (10) IPER OF AS SHOWN		_	ROC BE FE 44 FG/S CAPE NAME: RC REGISTRATIC EXPIRATE	GER AL ARCH ARCH ARCH ARCH ARCH ARCH ARCH ARCH
Image: Non-Window Control (Control (Contro) (Contro) (Contro) (Control (Control (Contro) (Contro) (Contro)	PARKI SCRE I 50.5 PROP	ING LOT EENING I 565.42 °OSED L NT M	SCREENING: NEXT TO OR ACROSS THE STREE (C). SCREENING DESIGN AND DEV AND USE AND DEVELOPMENT CH	T FROM RESIDENTIAL SHALL BE PER (/ELOPMENT SHALL BE COMPATIBLE W IARACTER OF THE SURROUNDING LAN MEETS REC	CITY COD /ITH THE E ID AND S ⁻ QUIREMEN ⁻	E SECTION EXISTING AND TRUCTURES. T AS SHOWN				
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Image: Additional and the second second based second to be additional and the second based second to be additional and the second to the			DECIDUOU	S TREES						F
	AR	6	BOWHALL MAPLE - Acer rubrum STATE STREET MAPLE - Acer mi	* 'Bowhall' vabel 'Morton'		2-1/2" cal. B/B 2-1/2" cal. B/B	40715' 50735'		Ζ	
Image: Solution control of the method of the solution of the so	GT	7	SKYLINE LOCUST - Gleditsia tria	canthos* 'Skyline'		2" cal. B/B	45'/ 35'		Ō	Ľ
Like ab JEFFFESCHEIM Like June setto enginene Strey Out 2* call B6 T07 50 Like ab CMY CM, LUMPIR: June setto enginene Strey Out # 3 cont. 57.6 Like ab CMY CM, LUMPIR: June setto enginene Strey Out # 3 cont. 47.9 Like ab CMY CM, LUMPIR: June setto enginene Strey Out # 3 cont. 47.9 Like ab CMY CM, LUMPIR: June setto enginene Strey Out # 3 cont. 47.9 Like ab CMY CM, LUMPIR: June setto enginene Strey Out # 3 cont. 47.9 Like ab CMY CM, LUMPIR: June setto enginene Strey Out # 5 cont. 47.9 Like ab CMY CM, LUMPIR: June setto enginene Strey Out # 5 cont. 47.9 Like ab CMY CM, LUMPIR: June setto enginene Strey Out # 5 cont. 47.9 Like ab CMY CM, LUMPIR: June setto enginene Strey Out # 5 cont. 47.9 Like ab CMY CMY CMUPIR: June setto enginene Strey Out 1 cont. 2 con. 307.07 Like ab CMY	GD	8	KENTUCKY COFFEE TREE - Gymn	ocladus dioicus* 'Espresso-JFS' (Seedl	less)	2" <i>ca</i> l. B/B	50% 35'	—		[S
Image: Solution of the state of the sta	UA	20	JEFFERSON ELM - Ulmus amer	ncana* 'Jefferson'		2" cal. B/B	70'/ 50'		A	5
Control of the original and the state of the state o		34	GREY OWI IUNIPER - Juniperus	SHRUBS		# 3 cont	31/ 61		F	_ ;
Image: State of the state		0.1	ORNAMENTA	AL GRASSES		# 0 00m.				ō
• DENOTES OFILO NATIVE PLANT MATERIAL PLANT MATERIALS LIST. • PHASE 2 <u>xet</u> (ary <u>PLANT MATERIALS LIST</u> . • PHASE 2 <u>xet</u> (ary <u>PLANT MATERIALS LIST</u> . • PHASE 2 <u>xet</u> (ary <u>PLANT MATERIALS LIST</u> . • PHASE 2 <u>xet</u> (ary <u>PLANT MATERIALS LIST</u> . • PHASE 2 <u>xet</u> (ary <u>PLANT MATERIALS LIST</u> . • PHASE 2 <u>xet</u> (ary <u>PLANT MATERIALS LIST</u> . • PHASE 2 <u>xet</u> (ary <u>PLANT MATERIALS LIST</u> . • PHASE 2 <u>xet</u> (ary <u>PLANT MATERIALS LIST</u> . • PHASE 2 <u>xet</u> (ary <u>PLANT MATERIALS LIST</u> . • PHASE 2 <u>xet</u> (ary <u>PLANT MATERIALS ALS DEMATTINE CONTENTS</u>) <u>restant area plant area (arget area </u>	PV	59	SWITCH GRASS - Panicum virg	atum [*] 'Shenandoah'		# 3 cont.	47/31		ZÜ	č
PLANT MATERIALS LIST - PHASE 2 Import Part Part North Part Part Part Part Part Part Part Part			* DENOTES OHIO	NATIVE PLANT MATERIAL			I			
Introduction Intervent in the intervent	PLA	NT M/	ATERIALS LIST - PHASE	2					ŏ ĕ	
CP CP PLANT IMAGE INSTALLED SUZE TLOPD. AS 20 WRICHT ERCOTHLES SUGAR MARIL - Accessaccharun' Wright Endliner' 2" call E65 507 35' CENERAL LANDSCAPE REOUREMENTS: 1. DAMULTS OF PLANT MATERIALS AS DRAWN ARE REPRESENTATIVE OF PLANTS AT OR NEAR MATLETY RATHER THAN AT INTUR PLANTING. 1. DAMULTS OF PLANT MATERIALS AS DRAWN ARE REPRESENTATIVE OF PLANTS AT OR NEAR MATLETY RATHER THAN AT INTUR PLANTING. 1. DAMULTS OF PLANT MATERIALS AS DRAWN ARE REPRESENTATIVE OF PLANTS AT OR NEAR MATLETY RATHER THAN AT INTUR PLANTING. 1. DAMULTS OF PLANT MATERIALS AS DRAWN ARE REPRESENTATIVE OF PLANTS AT OR NEAR MATLETY RATHER THAN AT INTUR PLANTING. 1. DAMULTS OF PLANT MATERIALS MAY DE RECESSARY DUE TO NEW OR DESTREE NUMBERS AND LEPS OF PLANT MATERIALS MAY BE RECESSARY DUE TO NEW OR DESTREE NUMBERS AND LEPS OF PLANT MATERIALS MAY BE RECESSARY DUE TO NEW OR DESTREE PLANT BEST DESTRICTORS. ADVECE ARCHICLES AND TREES MITH EXCELLE MAY OF ONE PART TO THE TRACTOR PLANT TO THE TRACTORY OF OWNEL ARCHICLES AND TREES MITH EXCELLE MAY OF ONE PART TO THE TRACTORY AND WEDDS. AFTER TOPSOL. ALL STREE PART TOPSOL. A REPORT TOPSOL A REPORT TOPSOL <t< td=""><td></td><td></td><td></td><td></td><td></td><td>MINIMUM</td><td>MATURE</td><td></td><td></td><td>Ъ</td></t<>						MINIMUM	MATURE			Ъ
As 20 WRIGHT DROTHERS SUGAR, MARLE - Acer saccharum' Wright Drothers' 21 al. 26 \$07.39 As 20 WRIGHT DROTHERS SUGAR, MARLE - Acer saccharum' Wright Drothers' 21 al. 26 \$07.39 CENERAL LANDSCAPE REQUIREMENTS: Image: Soft Plant' Waterials As DRAWN ARE REPRESENTATIVE OF Plants at OR NEAR MATURITY sattler THAN AT INITIAL PLANTING. Image: Soft Plant' Waterials As DRAWN ARE REPRESENTATIVE OF Plants at OR NEAR MATURITY sattler THAN AT INITIAL PLANTING. Image: Soft Plant' Waterials As DRAWN ARE REPRESENTATIVE OF Plants at OR NEAR MATURITY sattler THAN AT INITIAL PLANTING. Image: Soft Plant' Waterials As DRAWN ARE REPRESENTATIVE OF Plants at OR NEAR MATURITY sattler THAN AT INITIAL PLANTING. Image: Soft Plant' Waterials As DRAWN ARE REPRESENTATIVE OF Plants AT OR NEAR MATURITY sattler THAN AT INITIAL PLANTING. Image: Soft Plant' Maturity And Than Drawn Maturity Soft Plant Maturity Soft Plant Maturity Soft Plant Back And The Maturity Soft Plant Maturity Soft Plant Maturity Soft Plant Back And The Maturit	KEY	QTY.		S TREES	11	NSTALLED SIZE	HT./SPD.		[⊙] ≥	S (
CENERAL LANDSCAPE REQUIREMENTS: DAMATERS OF PLANT MATERIALS AS DRAWN ARE REPRESENTATIVE OF PLANTS AT OR NEAR MATURITY RATHER THAN AT INTEL PLANTING. THE PLANT LIST IS INTENDED AS A QUIDE FOR THE LANDSCAPE CONTRACTOR, IN IT HE EVENT OF DISCRTPANE ATTIVITY. ADJUSTMINIST IN ICOLORINO OF PLANT MATERIALS AS DRAWN ARE REPRESENTATIVE OF PLANTS AT OR NEAR MATURITY RATHER THAN AT INTEL PLANTENNE. THE PLANT LIST IS INTENDED AS A QUIDE FOR THE LANDSCAPE CONTRACTOR, IN IT HE EVENT OF DISCRTPANE ATTIVE. THE PLANT LIST IS INTENDED AS A QUIDE FOR THE LANDSCAPE CONTRACTOR, IN IT HE EVENT OF DISCRTPANE APTIV. ADJUSTMINES IN ICOLORING OF PLANT MATERIALS MAY BE INCLOSEDARY DUE TO NEW CREMETING THIE PLANT LIST IS INTENDED AS A QUIDE FOR THE LANDSCAPE CONTRACTOR. THIE MORE OCCURRING IN CONTINUOUS ROW OR FORMAL ARRANGEMENT SHALL BE OF UNITION HEIGHT, STREAD AND HADTO TO FOSOLI. ADJUSTMINED AND ALL AREAS TO LOOSEN SOLI TO A DEPTH OF G' AND REMOVE ROOTS AND WEDDS, AFTER TOPSOLI HAS EEEN STREAD, ROCKIOUND AGAIN TO REMOVE ALL STREAD AND MALE ARRAST TO LOOSEN SOLI TO A DEPTH OF G' AND REMOVE ROOTS AND WEDDS AND LINKED, BARDING THIM PRACTING BED MALE DED MATE & TENDENT OF TOR RECONDERS AND LINKED, SITTIM MAY BE ARCHITECTS REPRESENTATIVE. MULCH TREES AND DENTIFY ON REPORT AND DEDED FOR AMIN. THE DED MATE AT END THE UNDSCAPE CONTRACTOR SHALL BURNEL ALL PLANT MATERIALS DOR ONE-YEAR ROOM DOR ACCEPTIANCE OF THE WORK MAD VERITY XITIM THIM ARCHITECTS REPRESENTATIVE. THE UNDSCAPE CONTRACTOR SHALL BURNEL ALL PLANT MATERIALS FOR OR AMIN. THE PLANT AND PLANT AND ADDED FOR A MIN. THE PLANT AND PLANT AN	AS	20	WRIGHT BROTHERS SUGAR MAN	PLE - Acer saccharum* 'Wright Brothers	5'	2" cal. B/B	50% 35'			۲ ۲
NO. DATE DESCRIPTION CENERAL LANDSCAPE REQUIREMENTS: Image: Contractors of Plant Materials as DRAWN are Representative of Plants at or NEAR MATURITY RATHER than AT INITIAL Planting. Image: Contractors of Plant Materials as DRAWN are Representative of Plants at or NEAR MATURITY RATHER than AT INITIAL Planting. Image: Contractors of Plants and Plants. Image: Contractors of Plants and Plan								-		SUE
6. MULCH TREES AND SHRUBS WITH MIN. 3" DEPTH AND PERENNIAL BEDS WITH 2" DEPTH OF HARDWOOD MULCH. MULCH SHALL EXTEND IN A CONTINUOUS LAYER WITHIN PLANTING BEDS FROM FACE TO FACE OF FACE OF SITE STRUCTURES - WALKS, BUILDING OR OTHER PLANT BED LIMITS. KEEP MULCH MIN. 1/2" BELOW TOP OF CURB & ADJACENT PAVED SURFACES. 7. SEED ALL DISTUREED LAWN AREAS WITHIN PROJECT LIMITS. REFER TO CIVIL DRAWINGS FOR REQUIREMENTS AND EXTENT OF WORK AND VERIFY EXTENT WITH ARCHITECTS REPRESENTATIVE. 8. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN ALL PLANTS AND BEDS FOR A MIN. OF 30 DAYS AFTER ACCEPTANCE OF THE WORK BY THE ARCHITECT'S REPRESENTATIVE. THIS INCLUDES REGULAR WATERING, WEEDING AND MOWING. 9. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIALS FOR ONE-YEAR FROM DATE AT END OF MAINTENANCE PERIOD. BEFORE END OF WARRANTY PERIOD CONTRACTOR SHALL REPLACE ALL TREES, SHRUBS OR PLANTINGS NOT ALIVE OR IN A HEALTHY GROWING CONDITION. FUELOW SPRINGS DESIGN PO BOX 72 205 PARK MEADOWS DR. YELLOW SPRINGS, OHIO 45387 (0) 937.76.78.199 (M) 937.66.4.8199 ysdesigna0000010K com LICENSED IN: OH, KY, PA, IN, IL, MO, IL NO, WE VER AND COMPARISON DE LICENSED IN: OH, KY, PA, IN, IL, MO, IL NO KY, PA, IN, IL, MO, IL NO KY, PA, IN, IL, MO, IL NO KY OR A TO DE VER A TO REFERENCE.	GENE I. DIA RA 2. TH DIS NU 3. AD UTI MA 4. ALL SP 5. A N PRI TO	ERAL AMETER: THER TH E PLANT BCREPA DUSTME ILITIES (ADE. L SHRUE READ A VINIMUI JOR TO D THREE A. AN ST	LANDSCAPE REQUIRE 5 OF PLANT MATERIALS AS DRAW 1AN AT INITIAL PLANTING. 1 LIST IS INTENDED AS A GUIDE F NCY BETWEEN THE NUMBER OF F 5HALL APPLY. ENTS IN LOCATIONS OF PLANT M. DR SITE OBSTRUCTIONS. ADVIS 35 OCCURRING IN CONTINUOUS ND HABIT OF GROWTH. M OF 4" DEPTH OF TOPSOIL SHA PLANT INSTALLATION. BACKFILL PARTS TOPSOIL. ROCKHOUND ALL AREAS TO LOC D WEEDS. AFTER TOPSOIL HAS E ONES AND LUMPS.	EMENTS: VN ARE REPRESENTATIVE OF PLANTS A OR THE LANDSCAPE CONTRACTOR. IF PLANTS ON THE PLANT LIST AND ON T ATERIALS MAY BE NECESSARY DUE TO E ARCHITECT'S REPRESENTATIVE BEFO ROW OR FORMAL ARRANGEMENT SHA LL BE PLACED IN ALL BED AREAS BY L ALL SHRUBS AND TREES WITH BACKF PSEN SOIL TO A DEPTH OF G" AND REM BEEN SPREAD, ROCKHOUND AGAIN TO	AT OR NE, N THE EV THE DRAW O NEW OF ORE ADJU ALL BE OF ANDSCAF FILL MIX O MOVE RO D REMOVE	AR MATURITY ENT OF ING, THE GREAT E EXISTING JSTMENTS ARE UNIFORM HEIG PE CONTRACTOR F ONE PART PEA CKS E ALL	ER GHT, AT	E	NO. DATE	DESCRIPTIC
CURB & ADJACENT PAYED SURFACES. 7. SEED ALL DISTURBED LAWN AREAS WITHIN PROJECT LIMITS. REFER TO CIVIL DRAWINGS FOR REQUIREMENTS AND EXTENT OF WORK AND VERIFY EXTENT WITH ARCHITECTS REPRESENTATIVE. 8. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN ALL PLANTS AND BEDS FOR A MIN. OF 30 DAYS AFTER ACCEPTANCE OF THE WORK BY THE ARCHITECTS REPRESENTATIVE. THIS INCLUDES REGULAR WATERING, WEEDING AND MOWING. 9. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIALS FOR ONE-YEAR FROM DATE AT END OF MAINTENANCE PERIOD. BEFORE END OF WARRANTY PERIOD CONTRACTOR SHALL REPLACE ALL TREES, SHRUBS OR PLANTINGS NOT ALLVE OR IN A HEALTHY GROWING CONDITION. FUELOW SPRINGS DESIGN POS 472 205 PARK MEADOWS DR. YELLOW SPRINGS DESIGN (0) 937.767.8199 (W) 937.654.8199 yddsign8300utlook.com LICENSED IN: OH, KY, PA, IN, IL, MO, WAR TY OK WAR 74 ON WARTEN	6. ML	JLCH TR JLCH. N JLCH. N	EES AND SHRUBS WITH MIN. 3" I MULCH SHALL EXTEND IN A CONTI CTURES WALKS BUILDING OF	DEPTH AND PERENNIAL BEDS WITH 2" NUOUS LAYER WITHIN PLANTING BEDS	DEPTH O S FROM F	F HARDWOOD ACE TO FACE C	0F	-		
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9. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIALS FOR ONE-YEAR FROM DATE AT END OF MAINTENANCE PERIOD. BEFORE END OF WARRANTY PERIOD CONTRACTOR SHALL REPLACE ALL TREES, SHRUBS OR PLANTINGS NOT ALIVE OR IN A HEALTHY GROWING CONDITION.	8. TH AC WE	E LANDS CEPTAN	CAPE CONTRACTOR SHALL MAIN ICE OF THE WORK BY THE ARCHI AND MOWING.	ITAIN ALL PLANTS AND BEDS FOR A M TECT'S REPRESENTATIVE. THIS INCLU	AIN. OF 3 DES REGL	O DAYS AFTER JLAR WATERING	,		JOB NO. Z	1205.00 REB
LANDSCAPE ARCHITECT: TITLE YELLOW SPRINGS DESIGN SITE LANDSCAPE PO Box 472 205 PARK MEADOWS DR. YELLOW SPRINGS, OHIO 45387 YELLOW SPRINGS, OHIO 45387 SHEET NO. (0) 937.767.8199 (M) 937.654.8199 SHEET NO. VICENSED IN: OH, KY, PA, IN, IL, MO, LICENSED IN: OH, KY, PA, IN, IL, MO,	9. TH OF SH	E LANDS MAINTI	BCAPE CONTRACTOR SHALL GUA ENANCE PERIOD. BEFORE END C DR PLANTINGS NOT ALIVE OR IN A	RANTEE ALL PLANT MATERIALS FOR O F WARRANTY PERIOD CONTRACTOR S A HEALTHY GROWING CONDITION.	NE-YEAR 6HALL REF	FROM DATE AT I PLACE ALL TREES	END S,	_F	CHECKED F	REB
Image: All Discape Architect: SITE LANDSCAPE							-CT·		TITLE	
PO Box 472 205 PARK MEADOWS DR. YELLOW SPRINGS, OHIO 45387 (O) 937.767.8199 (M) 937.654.8199 ysdesign830@outlook.com LICENSED IN: OH, KY, PA, IN, IL, MO, MI VA, TX, OK, KS, AZ, CO, NMARUIT					G	YELLOW SPR	RINGS DESIGN		SITE LAN P	DSCAPE LAN
					j	PO Box 472 205 PARI YELLOW SPRINGS, C (O) 937.767.8199 (M) ysdesign830@outlook. LICENSED IN: OH, KY	< MEADOWS DR. HIO 45387 937.654.8199 com , PA, IN, IL, MO, Z CO, NM 8, LT		SHEET NO.	.0

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LAN	NDSC	APE CODE REQUIREMENTS:				4 • 5	
STRE ONE THER THE RIGH ABBE WES 240: 343: SOU	ET FRON TREE SH REOF, AL TOTAL N ED UPON TS-OF-V EY AVE T THIRD ± LF 1 TH ALLE TH ALLE	IAGE:1ALL BE PROVIDED FOR EVERY THIRTY (30) LINEAR FEET OF FRONTAGE, OR F.ONG EACH ROAD. DEVIATIONS FROM THE REGULAR PLACEMENT OF TREES (.UMBER OF TREES REQUIRED) MAY BE APPROVED BY THE ZONING ADMINIST	RACTION BUT NOT RATOR THE S AS SHOWN R SIGHT LINES) STING TREES POSED TREES S AS SHOWN R SIGHT LINES) REES AS SHOWN R SIGHT LINES)		A 	Architecture creative focused design	615 Woodside Drive, Englewood, Ohio 45322 T 937.836.8898 F 937.832.3696
430	± LF/4 ND AVEN	0 = 10.75 or 11 TREES REQUIRED 10 TI (TREES ADJUSTED FO	REES AS SHOWN R LIGHT POLES)			4	
320	± LF / 4	0 = 8 TREES REQUIRED 9 TR (NO TREES AT STREET INTERSECTIONS FO	REES AS SHOWN R SIGHT LINES)				
400	± LF / 4	$\frac{100}{10} = 10 \text{ TREES REQUIRED}$ $(\text{NO TREES AT STREET INTERSECTIONS FO}$	EES AS SHOWN R SIGHT LINES)		В	STATE C	DF OH
LAND WITH PARK 2.5 I LAND COU I I 5 PARK SCRI	SCAPING IIN THE L NCHES DSCAPEE NTED AS SPACES	OF PARKING LOTS:ANDSCAPED ISLANDS, ONE (1) SHADE TREE SHALL BE PROVIDED FOR EVER ACES. EACH TREE, AT THE TIME OF INSTALLATION, SHALL HAVE A MINIMUM (AND A CLEAR TRUNK HEIGHT OF AT LEAST SIX (G) FEET.AREAS ADJACENT TO THE PERIMETER OF THE PARKING AREA SHALL NOT BE INTERIOR PARKING LOT LANDSCAPED AREAS./ 10 = 11.5 or 12 TREES REQUIRED12 TRESCREENING: NEXT TO OR ACROSS THE STREET FROM RESIDENTIAL SHALL BE PER CITY OF	Y TEN (10) CALIPER OF E EES AS SHOWN ODE SECTION		_	NAME: RC REGISTRATIC EXPIRATION	AL 3 TERE ARCH ARCH NO: LA 8100433 ION: 12/31/24
150. PROF	NT M	(C). SCREENING DESIGN AND DEVELOPMENT SHALL BE COMPATIBLE WITH TH AND USE AND DEVELOPMENT CHARACTER OF THE SURROUNDING LAND AND MEETS REQUIREM	MINIMUM	MATURF	С		
KEY	QTY.	PLANT NAME DECIDUOUS TREES	INSTALLED SIZE	HT./SPD.			L
AR	6	BOWHALL MAPLE - Acer rubrum* 'Bowhall'	2-1/2" cal. B/B	40//15			<u>່ວ</u>
AM GT	10	STATE STREET MAPLE - Acer mıyabeı 'Morton' SKYLINE LOCUST - Gleditsıa triacanthos* 'Skyline'	2-1/2" cal. B/B 2" cal. B/B	50'/ 35' 45'/ 35'		0	R
GD	8	KENTUCKY COFFEE TREE - Gymnocladus dioicus* 'Espresso-JFS' (Seedless)	2" cal. B/B	50/ 35'	_	Ĕ	ST
UA	20	JEFFERSON ELM - Ulmus americana* 'Jefferson'	2" cal. B/B	70'/ 50'		4	Ö
JV	34	GREY OWL JUNIPER - Juniperus virginiana 'Grey Owl'	# 3 cont.	3'/ 6'		ST	
P\/	59	ORNAMENTAL GRASSES	# 3 cont	41/31		Z ()	
		* DENOTES OHIO NATIVE PLANT MATERIAL					
PLA	NT M/	ATERIALS LIST - PHASE 2				D	P/
KEV		DI ANIT NANAF	MINIMUM	MATURE			
NE Y	QTT.	DECIDUOUS TREES	INSTALLED SIZE	HI./SPD.		\mathbf{S}	S
AS	20	WRIGHT BROTHERS SUGAR MAPLE - Acer saccharum* 'Wright Brothers'	2" cal. B/B	507 35'			
ENI RATIN NUCLESSION N	ERAL AMETER: ATHER TH IE PLANT SCREPA JUSTME TILITIES (ADE. L SHRUE PREAD A MINIMUI CO THREE A. AN STU JUCH TR JUCH T	LANDSCAPE REQUIREMENTS: 6 OF PLANT MATERIALS AS DRAWN ARE REPRESENTATIVE OF PLANTS AT OR 1AN AT INITIAL PLANTING. 1 LIST IS INTENDED AS A GUIDE FOR THE LANDSCAPE CONTRACTOR. IN THE NCY BETWEEN THE NUMBER OF PLANTS ON THE PLANT LIST AND ON THE DR 5 MALL APPLY. 1 ST IN LOCATIONS OF PLANT MATERIALS MAY BE NECESSARY DUE TO NEW 1 CONTINUOUS OF PLANT MATERIALS MAY BE NECESSARY DUE TO NEW 1 CONTINUOUS ROW OR FORMAL ARRANGEMENT SHALL BE 1 DO TOPSOIL SHALL BE PLACED IN ALL BED AREAS BY LANDSG 1 PLANT INSTALLATION. BACKFILL ALL SHRUBS AND TREES WITH BACKFILL MU 1 PARTS TOPSOIL. 1 ROCKHOUND ALL AREAS TO LOOSEN SOIL TO A DEPTH OF G' AND REMOVE 2 D VEEDS. AFTER TOPSOIL HAS BEEN SPREAD, ROCKHOUND AGAIN TO REMOVE 2 D VEEDS. AFTER TOPSOIL HAS BEEN SPREAD, ROCKHOUND AGAIN TO REMOVE 2 D VEEDS. AFTER TOPSOIL HAS BEEN SPREAD, ROCKHOUND AGAIN TO REMOVE 3 D CONTRACTOR SHALL BY PLANT BED LIMITS. KEEP MULCH MIN 2 DACENT PAVED SURTH MIN. 3" DEPTH AND PERENNIAL BEDS WITH 2" DEPTH 2 DUEDS. AFTER TOPSOIL HAS DEEN SPREAD, ROCKHOUND AGAIN TO REMOVE 3 DESTAND SHRUBS WITH MIN. 3" DEPTH AND PERENNIAL BEDS WITH 2" DEPTH 3 DICTURES - WALKS, BUILDING OR OTHER PLANT BED LIMITS. KEEP MULCH MIN 3 DACENT PAVED SURTACES. 3 DISTURBED LAWN AREAS WITHIN PROJECT LIMITS. REFER TO CIVIL DRAWING 2 ES AND EXTENT OF WORK AND VERIFY EXTENT WITH ARCHITECT'S REPRESES 3 CAPE CONTRACTOR SHALL MAINTAIN ALL PLANTS AND BEDS FOR A MIN. OI 3 DEFORE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIALS FOR ONE-YEAP 2 MANCE PERIOD. BEFORE END OF WARRANTY PERIOD CONTRACTOR SHALL 3 DR MOWING. 3 CAPE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIALS FOR ONE-YEAP 3 DAND MONING. 3 CAPE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIALS FOR ONE-YEAP 3 DAND MOWING. 3 CAPE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIALS FOR ONE-YEAP 3 DANDY DRAWN DEFORE END OF WARRANTY PERIOD CONTRACTOR SHALL DO 3 R PLANTINGS NOT ALIVE OR IN A HEALTHY GROWING CONDITION.	NEAR MATURITY EVENT OF AWING, THE GREAT OR EXISTING DJUSTMENTS ARE OF UNIFORM HEIG CAPE CONTRACTOR OF ONE PART PEA ROCKS DVE ALL 1 OF HARDWOOD M FACE TO FACE OF M FACE TO FACE OF I. 1/2" BELOW TOP CS FOR ENTATIVE. 30 DAYS AFTER EGULAR WATERING AR FROM DATE AT REPLACE ALL TREES LANDSCAPE ARCHITE YELLOW SPRINGS, OF	END TER TER TER TER TER TER TER TER	E	ISS NO. DATE	DESCRIPTION DESCRIPTION 3/14/24 4205.00 REB REB App Architecture, Inc. DSCAPE LAN
		۲ ۲	 YELLOW SPRINGS, C (O) 937.767.8199 (M) ysdesign830@outlook LICENSED IN: OH, KY MI, VA, TX, OK, KS, A 	DHO 45387 937.654.8199 .com ', PA, IN, IL, MO, Z, CO, NM & UT		SHEET NO.	.0



		SYMBOLS	
	$(A1) \frac{F1K31}{1/4"} = 1' - 0"$		LE
		SCALE OF DF	RAWING
			FERENCE NUMBER
	INTERIOR ELEVA	IONS	
		DRAWING REF	ERENCE NUMBER
	4 A1.1 2	DRAWING SHE	ET NUMBER
		SECTION	
HOWER HEAD	A1.1-	DRAWING REF	ERENCE NUMBER ET NUMBER
CLASSIFICATION	ENLARGED DETA	IL	
		B1 DRAWING REF	ERENCE NUMBER
		A1.1-	ET NUMBER
		TIONS	
	4 A1.1 2	DRAWING REF	ERENCE NUMBER
	3	DRAWING SHE	ET NUMBER
JNTER	MATCH LINE		
ATORY WISE	A1	DRAWING REF	ERENCE NUMBER
	A1.1	DRAWING SHE	ET NUMBER
E			
	MATERIAL S	YMBOLS IN SEC	ΓΙΟΝ
OMEN /ALL CABINET	EARTH	LOOSE OR BATT INSULATION	BRICK
TREATMENT	GRANULAR FILL		SOLID SURFACE
	CONCRETE	STEEL	GYPSUM / PLASTER
		PLYWOOD	WOOD, FINISHED
	BLOCKING / SHIM		WOOD, DIMENSIONAL



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				WAINS	SCOT		WAL	LS		CEILING	
ROOM No.	ROOM NAME	FLOOR	BASE	MAT.	HT.	N	S	E	W	MAT.	REMARKS
100	VESTIBULE	MAT-1	RB-1			P-2	P-1	P-2	P-1	APC-1	
101	CORRIDOR	PC-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
102	MULTIPURPOSE/ TRAINING ROOM	CPT-1	RB-1	VWP-1	32"	P-1/VWP-1	P-1/VWP-1	P-1/VWP-1	P-1/VWP-1	APC-1	1
103	RECEPTION	CPT-1	RB-1			Р	P-1	P-1	P-1	APC-1	
104	TLT	PT-1	PTWB-1			PT-1	P-1	P-1	P-1	APC-1	2
105	OFFICE	CPT-1	RB-1			P-1	P-2	P-1	P-1	APC-1	
106	OFFICE	CPT-1	RB-1			P-1	P-2	P-1	P-1	APC-1	
107	OFFICE	CPT-1	RB-1			P-1	P-2	P-1	P-1	APC-1	
108	CONFERENCE ROOM	CPT-1	RB-1	VWP-1	32"	P-1/VWP-1	P-1/VWP-1	P-1/VWP-1	P-1/VWP-1	APC-1	1
109	SECURE CORRIDOR	PC-1	RB-1	VWP-1	48"	P-1/VWP-1	P-1/VWP-1	P-1/VWP-1	P-1/VWP-1	APC-1	
109A	TACTICAL GEAR STORAGE	PC-1	RB-1			P-1	P-1	VWP-1	P-1	APC-1	3
110	TLT.	PT-1	PTWB-1			P-1	P-1	PT-1	P-1	APC-1	
111	ROLL CALL	PC-1	RB-1	VWP-1	32"	P-1	P-1/VWP-1	P-1/VWP-1	P-1/VWP-1	APC-1	1
112	FITNESS	RT-1	RB-1	VWP-1	48"	P-1/VWP-1	P-1/VWP-1	P-1/VWP-1	P-1/VWP-1	APC-1	
113	COMM/SERVICE STORAGE	PC-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
114	IT	PC-1	RB-1			P-1	P-1	P-1	P-1	EXP	
115	REPORT/MAIL	PC-1	RB-1	VWP-1	32"	P-1/VWP-1	P-1	P-1	P-1	APC-1	1
116	MECH / ELE. ROOM	SC-1	-			P-1	P-1	P-1	P-1	EXP	
117	STORM SHELTER	PC-1	-			EP-1	EP-1	EP-1	EP-1	EXP	
118	VEHICLE BAY	SC-1	-			EP-1	EP-1	EP-1	EP-1	EXP	
119A	SERGEANTS	CPT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
119B	SERGEANTS GEAR	MCT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
120	KITCHENETTE	PC-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
121	SGT. MEETING ROOM	CPT-1	RB-1			P-1	P-1	P-1	P-1	APC-1	
122	PERSONAL GEAR	PT-1	PTWB-1			P-1	P-1	P-1	P-1	EXP	
123	DECOMPRESS/ MOTHER'S	CPT-1/MCT-1	RB-1			P-1	P-1	P-1	PT-1/P	APC-1	4
124	PERSONAL GEAR CHANGING ROOM	PT-1	PTWB-1			P-1	P-1	P-1	P-1	APC-1	4
125	JAN.	PC-1	RB-1	VWP-1	48"	P-1/VWP-1	P-1	P-1	P-1/VWP-1	APC-1	

	ROOM FINISH SCHEE
No.	R
1	6" SOLID SURFACE (SSM-1) CHAIR RAIL ABOVE VINYL WALL PROTECTION.
2	PORCELAIN TILE 1/2 WAY UP WET WALL ONLY. CAP WITH SCHULTER STRIP.
3	VINYL WALL PROTECTION INSTALLED BEHIND SHELVES.
4	SEE ROOM FINISH PLAN FOR WET WALL TILE LOCATIONS.

			MATERIAL LEGEND	
ITEM	MATERIAL	MANUFACTURER	MATERIAL MODEL NO.	CONTACT INFO
DAGE				
			1	
RB-1	RUBBER BASE			
CABINETS				
PL-1	PLASTIC LAMINATE			
SS-1	STAINLESS STEEL			
SSM-1	SOLID SURFACE			
CEILING				
APC-1	ACOUSTIC PANEL CEILING			
EXPS-1				
GYB/P-1	GYPSUM BOARD PAINTED			
DOORS				
DEP-1	DOOR & FRAME PAINT			
			1	
MCT-1				
PC-1				
PT-1				
RT-1	RUBBER TILE			
SC-1	SEALED CONCRETE			
	•			
SPECIALTY				
CG-1	CORNER GUARD			
EWP-1	END WALL PROTECTION			
WALL				
CTW-1	CERAMIC TILE			
P-1	PAINT			
P-2	PAINT			
PT-1	PORCELAIN TILE			
VWP-1	VINYL WALL PROTECTION			

MATERIAL LEGEND REMARKS

No. 1.

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DULE REMARKS



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	DOOR No.		IDW. SET	T W	SIZE H 7' - 0"	Т	MAT.		FIN.	U/C MAT.	TYPE	FIN.
	101A	VESTIBULE		3' - 0"	7' - 0"	1 3/4"	WD	F1	STAIN	HM	1	DEP-1
	101B			3' - 0"	7' - 0"	1 3/4"	WD WD	NL1 NL1	STAIN	HM	1	DEP-1 DEP-1
	102A 102B	MULTIPURPOSE/ TRAINING ROOM MULTIPURPOSE/ TRAINING ROOM		3' - 0" 3' - 0"	7' - 0" 7' - 0"	1 3/4" 1 3/4"	WD	F1 F1	STAIN	HM	1	DEP-1 DEP-1
	103 104	RECEPTION TLT		3' - 0" 3' - 0"	7' - 0" 7' - 0"	1 3/4" 1 3/4"	WD WD	F1 F1	STAIN STAIN	HM HM	1	DEP-1 DEP-1
	105 106	OFFICE OFFICE		3' - 0" 3' - 0"	7' - 0" 7' - 0"	1 3/4" 1 3/4"	WD WD	F1 F1	STAIN STAIN	HM HM	1	DEP-1 DEP-1
	107 108	OFFICE CONFERENCE ROOM		3' - 0" 3' - 0"	7' - 0" 7' - 0"	1 3/4" 1 3/4"	WD WD	F1 F1	STAIN STAIN	HM HM	1	DEP-1 DEP-1
	109A 109B	SECURE CORRIDOR SECURE CORRIDOR		3' - 0" 3' - 0"	7' - 0" 7' - 0"	1 3/4" 1 3/4"	HM HM	NL2 NL2	DEP-1 DEP-1	HM HM	1	DEP-1 DEP-1
	109C 110	SECURE CORRIDOR		3' - 0" 3' - 0"	7' - 0" 7' - 0"	1 3/4" 1 3/4"	HM WD	NL2 F1	DEP-1 STAIN	HM HM	1	DEP-1 DEP-1
	111 112A	ROLL CALL		3' - 0" 3' - 0"	7' - 0" 7' - 0"	1 3/4"	WD	F1 AI 1	STAIN	HM HM	1	DEP-1 DEP-1
	112B			3' - 0"	7' - 0"	2"	W/D	AL1	STAIN	HM	1	DEP-1
	113	IT		3' - 0"	7 - 0"	1 3/4"	WD WD	F1	STAIN	HM	1	DEP-1 DEP-1
	115A 115B	REPORT/MAIL REPORT/MAIL		3' - 0" 3' - 0"	7' - 0" 7' - 0"	1 3/4" 1 3/4"	WD HM	F1 NL2	DEP-1	HM HM	1	DEP-1 DEP-1
	116 117	MECH / ELE. ROOM STORM SHELTER		3' - 6" 3' - 0"	7' - 0" 7' - 0"	1 3/4" 1 3/4"	WD HM	F1 F2	STAIN DEP-1	HM HM	1 3	DEP-1 DEP-1
	118 119A	VEHICLE BAY SERGEANTS		3' - 0" 3' - 0"	7' - 0" 7' - 0"	1 3/4" 1 3/4"	HM WD	NL2 F1	DEP-1 STAIN	HM HM	1	DEP-1 DEP-1
	119B 121	SERGEANTS SGT. MEETING ROOM		3' - 0" 3' - 0"	6' - 8" 7' - 0"	2" 1 3/4"	WD WD	F1 F1	STAIN STAIN	HM HM	4	DEP-1 DEP-1
	123	DECOMPRESS/ MOTHER'S PERSONAL GEAR CHANGING BOOM		3' - 0" 3' - 4 1/2"	7' - 0" 7' - 0"	1 3/4"	WD	F1	STAIN	HM	1	DEP-1
	124B	PERSONAL GEAR CHANGING ROOM		3' - 4 1/2" 3' - 4 1/2"	7' - 0" 7' - 0"	1 3/4"		OH4	STAIN	HM	4	DEP-1
	1240 124D	PERSONAL GEAR CHANGING ROOM		3' - 4 1/2"	7' - 0"	1 3/4"		OH4 OH4	STAIN	HM	4	DEP-1
	124E	PERSONAL GEAR CHANGING ROOM PERSONAL GEAR CHANGING ROOM		3' - 4 1/2"	7' - 0"	1 3/4"		0H4 0H4	STAIN	HM	4	DEP-1 DEP-1
	124G 124H	PERSONAL GEAR CHANGING ROOM PERSONAL GEAR CHANGING ROOM		3' - 4 1/2" 3' - 4 1/2"	7' - 0" 7' - 0"	1 3/4" 1 3/4"		OH4 OH4	STAIN STAIN	HM HM	4	DEP-1 DEP-1
	124J 124K	PERSONAL GEAR CHANGING ROOM PERSONAL GEAR CHANGING ROOM		3' - 4 1/2" 3' - 4 1/2"	7' - 0" 7' - 0"	1 3/4" 1 3/4"		OH4 OH4	STAIN STAIN	HM HM	4 4	DEP-1 DEP-1
	125 OH1	SECURE CORRIDOR VEHICLE BAY		3' - 0" 14' - 0"	7' - 0" 14' - 0"	1 3/4"	WD STEEL	F1 OH1	STAIN	HM	1	DEP-1
			2'-6"	4"_7" 	2'-6"	(T)		2" Si HEDULE	SEE	2" 2" SCH	SEE IEDULE 2"	ORS. APPROX. LOCATIONS. BUDGATIONS.
		PE F1 TYPE F2 TYPE NI JSH STORM FLUSH	_1	TYPE NL2 HM INSULATE		/PE AL1 LUMINUM DREFRONT			TYPE 1 GLE / PAIR FANDARD		/PE 2 LE / PAIR NDARD	SEE SCHE
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		DETAILS				
I.	HEAD	JAMB	SILL	FIRE RTG.	REMARKS	
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RESTROOM - TYPE 1





WOMEN'S RESTROOM - TYPE 3



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BASE FIRE RATING	. TYPES SCHEDULE → ⊠		BASE FIRE RATING		BASE	FIRE RATING		-
TYPE WALL WIDTH TESTING AGENCY, ASSEMBLY NO.	DETAILS & NOTES	TYPE	WALL WIDTH TESTING AGENCY, ASSEMBLY NO.	DETAILS & NOTES	TYPE WALL WIDTH	TESTING AGENCY, ASSEMBLY NO.	DETAILS & NOTES	A
A1 3 5/8" -	CEILING 3 5/8" STEEL STUDS @ 16" O.C. 3 1/2" SOUND ATTENUATION 5/8" TYPE "X" GYPSUM BOARD FLOOR NOTES: 5/8" CEMENTITIOUS BACKER UNITS TO FULL HEIGHT OF WALL TILE.	D2	3 5/8"	CEILING 3 5/8" STEEL STUDS @ 16" O.C. 5/8" TYPE "X" GYPSUM BOARD FLOOR	F1	2 HR. UL NO. U905	CEILING 8" NOMINAL CMU EXTEND TO STRUCTURE ABOVE FLOOR	
	DECK 4 7/8" BRACE TO DECK AT 48" O.C.			DECK DEFLECTION TRACK AT HEAD			DEFLECTION TRACK AT HEAD 8" NOMINAL CMU EXTEND TO STRUCTURE ABOVE 3 5/8" STEEL STUDS @ 16" O C	B
A2 3 5/8"	CEILING 5/8" TYPE "X" GYPSUM BOARD 3 5/8" STEEL STUDS @ 16" O.C. 3 1/2" SOUND ATTENUATION 5/8" TYPE "X" GYPSUM BOARD	D5	3 5/8"	CEILING 3 5/8" STEEL STUDS @ 16" O.C. 3 1/2" SOUND ATTENUATION 5/8" TYPE "X" GYPSUM BOARD FLOOR	F2	2 HR. UL NO. U905	3 1/2" SOUND ATTENUATION 5/8" TYPE "X" GYPSUM BOARD	_
B1 6"	DECK DEFLECTION TRACK AT HEAD 5/8" TYPE "X" GYPSUM BOARD CEILING 6" STEEL STUDS @ 16" O.C.	M1		DECK CEILING CEILING 8" NOMINAL CMU EXTEND TO STRUCTURE ABOVE	F3	2 HR. UL NO. U905	DECK DEFLECTION TRACK AT HEAD 8" NOMINAL CMU EXTEND TO STRUCTURE ABOVE 6" STEEL STUDS @ 16" O.C. 5 1/2" SOUND ATTENUATION	С
	5 1/2" SOUND ATTENUATION 5/8" TYPE "X" GYPSUM BOARD FLOOR			FLOOR			FLOOR 5/8" TYPE "X" GYPSUM BOARD	_
B2 6"	DECK 7 1/4" CEILING DEFLECTION TRACK AT HEAD BRACE TO DECK AT 48" O.C. 5/8" TYPE "X" GYPSUM BOARD				GENER			
	6" STEEL STUDS @ 16" O.C. 5 1/2" SOUND ATTENUATION 5/8" TYPE "X" GYPSUM BOARD				 A. MOISTURE/MO AREAS. EXTEN B. PROVIDE & INS C. UL TEST NUMB ACTUALLY US D. DRYWALL CON LABEL TO BE F E. FIRE RATED W PENETRATION 	DED RESISTANT GYPSUM BC ID MINIMUM 24" BEYOND PL STALL DEFLECTION TRACK BERS FOR INTERIOR PARTIT ED. MAINTAIN RATING AND A NTRACTOR TO PAINT WALL PAINTED ABOVE CEILING WI VALLS AND SMOKE PARTITIC S. ALL PENETRATIONS AND	ARD SHALL BE USED BEHIND ALL SINKS, SERVICE SINKS AND SHOWER UMBING FIXTURES. AT ALL INTERIOR WALLS THAT EXTEND TO DECK. HONS WILL VARY DEPENDING ON THE MANUFACTURER OF COMPONENTS ADVISE IF WALL THICKNESS WILL CHANGE. RATINGS LABELS AT MAXIMUM 12 FEET O.C. ON ALL FIRE RATED PARTITIONS. TH A STENCIL MIN. OF 4 INCHES IN HEIGHT, BLACK COLOR. DNS ARE TO BE CONSTRUCTED TIGHT TO STRUCTURE, PIPING AND OTHER PERIMETER OF WALLS TO BE FIRE CAULKED.	
					 F. STEEL STUD F G. REFER TO FLO H. REFER TO THI I. ALL PARTITION WALL TILE. J. APPLY ACOUS K. AT ALL STC-RA 	ARTITIONS SHALL BE BRAC OOR PLANS FOR LOCATIONS S SHEET FOR TYPICAL INTE IS SCHEDULED RECEIVE W TICAL SEALANT AT ENTIRE	ED TO STRUCTURE ABOVE. S OF INTERIOR PARTITION TYPES. RIOR PARTITIONS DETAILS. ALL TILE SHALL HAVE CEMENTITIOUS BACKER UNIT TO FULL HEIGHT OF PERIMETER OF ALL GYPSUM BOARD PARTITIONS. CONTROL TYPE PARTITIONS APPLY ACOUSTICAL SEALANT AT PERIMETER	E
					OF PARTITION SHALL BE APF L. EXISTING BUIL - FIRST FLOO	AND AROUND ELECTRICAL LIED TO BOTH FACES OF PA DING FLOOR TO FLOOR HE R TO T.O. ROOF: 23'-	RECEPTACLES, PIPES AND & DUCT PENETRATIONS. ACOUSTICAL SEALANT ARTITION. GHTS FOR AREAS OF WORK: 1"	
								F

BASE WALL WIDTH	FIRE RATING TESTING AGENCY, ASSEMBLY NO.	DETAILS & NOTES		cused desination desinatio desination desination desination desination desination desina
	2 HR. UL NO. U905	DECK CEILING CEILING FLOOR B" NOMINAL CMU EXTEND TO STRUCTURE ABOVE	A	App F, Archited creative fo 615 Woodside Drive, Englewood, O T 937.836.8898 F 937 www.app
	2 HR. UL NO. U905	DECK DEFLECTION TRACK AT HEAD 8" NOMINAL CMU EXTEND TO STRUCTURE ABOVE 3 5/8" STEEL STUDS @ 16" O.C. 3 1/2" SOUND ATTENUATION 5/8" TYPE "X" GYPSUM BOARD	В	ANT HORADON
	2 HR. UL NO. U905	DECK DEFLECTION TRACK AT HEAD 8" NOMINAL CMU EXTEND TO STRUCTURE ABOVE 6" STEEL STUDS @ 16" O.C. 5 1/2" SOUND ATTENUATION 5/8" TYPE "X" GYPSUM BOARD	C	STATION DL DISTRICT 5417
DISTURE/MC EAS. EXTEN	AL NOTE DLD RESISTANT GYPSUM ND MINIMUM 24" BEYONI	S M BOARD SHALL BE USED BEHIND ALL SINKS, SERVICE SINKS AND SHOWER D PLUMBING FIXTURES.	D	CITY OF DAYTON NEW POLICE WEST PATR 10 Abbey Ave, Dayton, Ohio 4
TEST NUME TUALLY USI TUALLY USI RYWALL CON BEL TO BE F RE RATED W NETRATION EEL STUD P FER TO FLC FER TO FLC FER TO THI L PARTITION ALL STC-RA PARTITION ALL STC-RA PARTITION ALL STC-RA	BERS FOR INTERIOR PA ED. MAINTAIN RATING A NTRACTOR TO PAINT W/ PAINTED ABOVE CEILING /ALLS AND SMOKE PAR IS. ALL PENETRATIONS / PARTITIONS SHALL BE B DOR PLANS FOR LOCATI S SHEET FOR TYPICAL I NS SCHEDULED RECEIV STICAL SEALANT AT ENT ATED ACOUSTICAL / SOU AND AROUND ELECTRI PLIED TO BOTH FACES C	RTITIONS WILL VARY DEPENDING ON THE MANUFACTURER OF COMPONENTS ND ADVISE IF WALL THICKNESS WILL CHANGE. ALL RATINGS LABELS AT MAXIMUM 12 FEET O.C. ON ALL FIRE RATED PARTITIONS. G WITH A STENCIL MIN. OF 4 INCHES IN HEIGHT, BLACK COLOR. TITIONS ARE TO BE CONSTRUCTED TIGHT TO STRUCTURE, PIPING AND OTHER AND PERIMETER OF WALLS TO BE FIRE CAULKED. RACED TO STRUCTURE ABOVE. IONS OF INTERIOR PARTITION TYPES. INTERIOR PARTITIONS DETAILS. E WALL TILE SHALL HAVE CEMENTITIOUS BACKER UNIT TO FULL HEIGHT OF IRE PERIMETER OF ALL GYPSUM BOARD PARTITIONS. JND CONTROL TYPE PARTITIONS APPLY ACOUSTICAL SEALANT AT PERIMETER CAL RECEPTACLES, PIPES AND & DUCT PENETRATIONS. ACOUSTICAL SEALANT OF PARTITION.	E	ISSUE NO. DATE DESCRIPTION 00/00/00 issue
FIRST FLOOP	R TO T.O. ROOF:	23'-1"	F	DATE8/14/24JOB NO.4205.00DRAWNMLGCHECKEDRFWCOPYRIGHT © 2024 - App Architecture, Inc.TITLEWALL TYPESSHEET NO.SHEET NO.



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	WINDO	WANDSI	OREFR	CONT SC	HEDUL	.E	
 ROUGH		FRAME					
WIDTH	HEIGHT	MATERIAL	HEAD	JAMB	SILL	HEAD HEIGHT	REMARKS
9' - 2"	8' - 0"	ALUM				8' - 0"	
10' - 2 1/2"	8' - 0"	ALUM				8' - 0"	
20' - 7 3/32"	4' - 4"	ALUM				16' - 4"	
21' - 1"	4' - 4"	ALUM				16' - 4"	
13' - 10"	4' - 4"	ALUM				16' - 4"	
3' - 4"	8' - 0"	ALUM				8' - 0"	
3' - 4"	8' - 0"	ALUM				8' - 0"	
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3' - 0" -1 3/4" TYP. В



B6 WINDOW W3 3/8" = 1'-0"





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 $\langle 00 \rangle$ INDICATES CONSTRUCTION NOTE.

- 1 SAFE ROOM. INSTALL EMERGENCY LOCK AND 911 CALL BOX.
- SEMI-RECESSED FIRE EXTINGUISHER. REFER TO SPECIFICATIONS AND MOUNTING AND CLEARANCE STANDARDS ON SHEET A0.1
- WALL HUNG FIRE EXTINGUISHER. OWNER FURNISHED, CONTRACTOR INSTALLED. COORDINATE EXACT LOCATION WITH WALL MOUNTED PME ITEMS.
- 4 STORM SHELTER. REFER TO SHEET G0.3 FOR DETAILS.
- 5 SHOWER PAN RECESSED IN CONCRETE. SHOWER PAN ACTS AS FLOOR DRAIN FOR ROOM.
- 6 WALL MOUNTED STORAGE SHELVES. REFER TO CASEWORK DETAILS ON A8.1.
- WALL MOUNTED HEAVY DUTY STORAGE SHELVES WITH VWP-1 BACKING ON WALLS. REFER TO SHEET A8.1 FOR DETAILS.
- 8 MOBILE FIREARM SECURED LOCKERS. REFER TO INTERIOR ELEVATIONS FOR DETAILS.
- 9 FURNITURE SHOWN FOR REFERENCE ONLY. COORDINATE LOCATIONS FOR POWER AND DATA WITH OWNER'S SELECTED SYSTEMS FURNITURE.
- 10 RECESSED PASS THROUGH DEAL TRAY. REFER TO SHEET A8.1 FOR DETAILS.
- 11 STORAGE SHELVES IN SECURITY CAGE.
- 12 EMERGENCY SHOWER. CORODIANTE WITH PLUMBING DRAWINGS.
- 13 DECON WASHER AND DRYER. COORDINATE WITH MECHANICAL AND PLUMBING DRAWINGS.
- 14 WALL MOUNTED TV.
- 15 ADA CHANGING BENCH.
- 16 GEAR LOCKERS WITH POWER HOOK UPS. COORDINATE WITH ELECTRICAL DRAWINGS
- 17 MOP SINK WITH MOP HOLDERS ABOVE. REFER TO PLUMBING DRAWINGS.
- 18 REFRIGERATOR BY OWNER.
- 19 LADDER TO EQUIPMENT PLATFORM. REFER TO A1.3 FOR DETAILS.
- 20 MECHANICAL EQUIPMENT SHOWN FOR REFERENCE.
- REFER TO MEP DRAWINGS FOR EQUIPMENT INFORMATION AND LOCATIONS.
- 21 WALL MOUNTED BOTTLE FILLER.
- 22 ICE MACHINE BY OWNER.
- 23 FITNESS EQUIMPMENT SHOWN FOR REFERENCE ONLY.
- 24 METAL PIPE BOLLARD.
- 25 SLOPE CONCRETE IN VEHICLE BAY TO TRENCH DRAIN. SET 1" BELOW FINISHED GRADE ELEVATION. REFER TO PLUMBING DRAWINGS FOR DETAILS.
- 26 WALL MOUNTED ROBE HOOK. REFER TO SPECIFICATIONS. OFCI.
- 27 WALL MOUNTED PAPER TOWEL DISPENSER. OFCI.

GENERAL NOTES

- A. ALL INTERIOR PARTITIONS ARE TYPE A1 U.N.O.
- B. ALL PARTITIONS ARE TO BE BRACED TO STRUCTURE ABOVE U.N.O.
- C. PROVIDE FIRE RETARDANT WOOD BLOCKING BEHIND ALL WALL HUNG ACCESSORIES, CABINETS, FURNISHINGS, HANDRAILS U.N.O.
- D. REFER TO EQUIPMENT PLAN AND ELEVATIONS FOR TOILET ROOM ACCESSORY CALLOUTS.
- E. FOR SIDEWALKS AND EXTERIOR PADS REFER TO CIVIL SITE AND LANDSCAPE PLANS.
- F. REFER TO FINISHED FLOOR PLAN FOR CORNER GUARD AND END WALL GUARD LOCATIONS.
- G. ALL EXPOSED STRUCTURAL STEEL TO BE EPOXY PAINTED.
- H. DIMENSIONS ARE FROM FINISHED FACE TO FINISHED FACE U.N.O.
- . FURNITURE AND EQUIPMENT SHOWN FOR REFERENCE ONLY.



A1.1





CONSTRUCTION NOTES

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 $\langle \overline{00} \rangle$ INDICATES CONSTRUCTION NOTE.

- 1 ROOF SADDLE WITH TAPERED INSULATION.
- 2 METAL PANEL FASCIA. REFER TO DETAILS SHEET.
- 3 TAPERED ROOF INSULATION. SLOPE AWAY FROM EDGE TO ROOF DRAIN.
- ROOF DRAIN AND OVERFLOW DRAIN. REFER TO PLUMBING DRAWINGS FOR DETAILS. 4
- BUILT-IN INTERNAL GUTTER WITH TAPERED 60 MIL REINFORCED TPO MEMBRANE. 5
- 6 GUTTER DRAIN WITH OUTLET TUBE THROUGH ROOF. DRAIN ONTO GRAVEL BED WITH PERFORATED UNDERDRAIN SYSTEM.
- METAL STANDING SEAM ROOF.
- HIGH POINT OF CURVED ROOF. REFER TO EXTERIOR ELEVATIONS FOR RADIUS INFORMATION. 8
- 9 WALKWAY PADS OVER TPO.

/ood, Ohio 45322 F 937.832.3696 86 Α ЪР _ В С ATIO G C D 0 C C Ζ ()ISSUE NO. DATE DESCRIPTION 00/00/00 issue Ε

GENERAL NOTES

- A. ALL PENETRATIONS THROUGH ROOF SHALL BE PAINTED TO MATCH ROOF.
- B. COORDINATE ROOF PENETRATIONS WITH PLUMBING, ELECTRICAL, AND MECHANICAL DRAWINGS.

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A1.6

SHEET NO.




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 $\langle 00 \rangle$ INDICATES CONSTRUCTION NOTE.

- SOLID SURFACE COUNTERTOP (SSM-1). REFER TO FINISH SCHEDULE.
- 2 SINK. REFER TO PLUMBING DRAWINGS.
- FLOOR MOUNTED TOILET. REFER TO PLUMBING DRAWINGS.
- WALL MOUNTED GRAB BARS. REFER TO MOUNTING AND CLEARANCE STANDARDS ON SHEET A0.1.
- 24" x36" WALL HUNG MIRROR. REFER TO MOUNTING AND CLEARANCE STANDARDS ON SHEET A0.1 FOR DETAILS.
- 6 LIGHT FIXTURE MOUNTED ABOVE MIRROR. REFER TO ELECTRICAL DRAWINGS.
- 7 WALL MOUNTED SOAP DISPENSER.
- 8 WALL MOUNTED PAPER TOWEL DISPENSER. ROLL TYPE.
- 9 WALL MOUNTED PAPER TOWEL DISPENSER. C-FOLD TYPE.
- 10 RECESSED WASTE RECEPTACLE.
- 11 PORCELAIN TILE WALL BASE (PWTB-1). REFER TO FINISH SCHEDULE.
- 12 RUBBER WALL BASE (RB-1). REFER TO FINISH SCHEDULE. 13 12"X24" WALL TILE (PT-2) ON WET WALLS. REFER TO
- FINISH SCHEDULE. 14 VINYL WALL PROTECTION (VWP-1). REFER TO FINISH
- SCHEDULE. PROVIDE TOP TRIM WHERE NECESSARY.
- 15 SOLID SURFACE CHAIR RAIL (SSM-1). ALIGN WITH BACKSPLASH WHERE ABUTS A SOLID SURFACE COUNTERTOP. REFER TO FINISH SCHEUDLE.
- 16 WALL MOUNTED TV. OFCI. REFER TO ELECTRIC DRAWINGS.
- 17 SHOWER ROD. REFER TO SPECIFICATIONS.
- 18 SHOWER MOUNTED GRAB BARS. REFER TO MOUNTING AND CLEARANCE STANDARDS ON SHEET A0.1 FOR DETAILS.
- 19 SOLID SURFACE SHOWER AND ENCLOSURE. REFER TO PLUMBING DRAWINGS FOR DETAILS.
- 20 INTEGRAL SOLID SURFACE SHOWER SHELVES.
- 21 REFIGERATOR. OWNER PROVIDED. REFER TO ELECTRICAL AND PLUMBING DRAWINGS.
- 22 MICROWAVE CABINET. COORDINATE PLACEMENT OF ELECTRICAL OUTLET.
- 23 CORNER GUARD OR END GUARD. REFER TO FINISH PLAN FOR LOCATIONS AND INTERIOR DETAILS.
- 24 SOLID SURFACE COUNTER (SSM-1) WITH RECESSED PASS-THROUGH DEAL TRAY. REFER TO WINDOW AND DOOR DETAILS FOR DETAILS. REFER TO SHEET A0.9 FOR BULLET RESISTANCE INFORMATION.
- 25 SOLID SURFACE WORKSTATION COUNTER (SSM-1).
- 26 PLASTIC LAMINATE WORKSTATION COUNTER (PL-1).
- 27 METAL WORKTOP SUPPORT BRACKET TYP. SPACING 4'-0" O.C. MAX. COLOR AS SPECIFIED.
- 28 HEAVY DUTY SHELVING AND BRACKETS.
- 29 SHELVES FOR CAMERA CHARGING. COORDINATE HEIGHT AND OUTLET LOCATION WITH OWNER.
- 30 FIREARM STORAGE CABINET. MOUNTED TO WALL.
- 31 FRAMED SHELF BELOW CABINET.
- 32 WALL MOUNTED FIRE EXTINGUISHER. REFER TO SHEET A0.1 FOR MOUNTING AND CLEARANCE STANDARDS.
- 33 TOILET TISSUE DISPENSER.
- 34 MECHANICAL EQUIPMENT. REFER TO HVAC DRAWINGS.

GENERAL NOTES

- A. EXAMPLE OF CASEWORK DIMENSIONS (2436)
- INDICATES 24" WIDTH X 36" HEIGHT. FOR DEPTH REFER TO TYPICAL CASEWORK DETAILS U.N.O.
- B. PROVIDE 3/4" PLASTIC LAMINATE SCRIBE AGAINST FINISHED WALLS AT BASE, WALL AND TALL
- CABINETS. C. ALL BASE & WALL CABINET PL-2 U.N.O. D. INSTALL SOLID WOOD (FIRE TREATED)
- (CONTRACTOR OPTION SHEET STEEL) BLOCKING IN WALLS BEHIND WALL MOUNTED ITEMS INCLUDING CASEWORK, TOILET ACCESSORIES, ETC.
- E. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL RECEPTACLE LOCATIONS. F. ALL PLASTIC LAMINATE GRAIN TO RUN VERTICALLY
- U.N.O. G. ALL OUTSIDE CORNERS OF PLAM COUNTERTOPS
- SHALL PROJECT 1" PAST CABINET/SUPPORT AND SHALL HAVE 1 1/2" RADIUS CORNER EXCEPT AT REFRIGERATORS AND EQUIPMENT, WHERE SQUARE CORNERS AND 1/4" PROJECTION SHALL BE USED.
- H. ALL COUNTERTOPS 25" DEEP U.N.O. REFER TO SHEET A0..2 FOR FINISHES DESCRIPTION AND ABBREVIATIONS.





 $\langle 00 \rangle$ INDICATES CONSTRUCTION NOTE.

- 1 SOLID SURFACE COUNTERTOP (SSM-1). REFER TO FINISH SCHEDULE.
- 2 SINK. REFER TO PLUMBING DRAWINGS.
- FLOOR MOUNTED TOILET. REFER TO PLUMBING DRAWINGS.
- WALL MOUNTED GRAB BARS. REFER TO MOUNTING AND CLEARANCE STANDARDS ON SHEET A0.1.
- 24" x36" WALL HUNG MIRROR. REFER TO MOUNTING AND CLEARANCE STANDARDS ON SHEET A0.1 FOR DETAILS.
- 6 LIGHT FIXTURE MOUNTED ABOVE MIRROR. REFER TO ELECTRICAL DRAWINGS.
- WALL MOUNTED SOAP DISPENSER.
- 8 WALL MOUNTED PAPER TOWEL DISPENSER. ROLL TYPE.
- WALL MOUNTED PAPER TOWEL DISPENSER. C-FOLD TYPE.
- 10 RECESSED WASTE RECEPTACLE.
- 11 PORCELAIN TILE WALL BASE (PWTB-1). REFER TO FINISH SCHEDULE.
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FINISH LEGEND

CPT-1 - CARPET CPT-1/MCT-1 - CARPET W/ MCT MAT-1 - WALK-OFF MATT MCT-1 - MARMOLEUM TILE PC-1 - POLISHED CONCRETE PT-1 - PORCELAIN TILE RT-1 - RUBBER TILE SC-1 - SEALED CONCRETE

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/---CR--- -CHAIR RAIL

•••WW••• -WALL TILE (WET WALL)

CG-1 -CORNER GUARD

EWP-1 -END WALL PROTECTION















GENERAL NOTES:

- COORDINATE ALL DIMENSIONS W/ ARCH DWGS. IN CASE OF CONFLICT, THE DIMENSIONS SHOWN IN THE ARCH DWGS GOVERN.
- 2. STRUCTURAL PLANS ARE AN EXTENSION OF ARCHITECTURAL PLANS. COORDINATE LOCATIONS OF COLUMNS, WALLS, OPENINGS, ETC W/ ARCH DWGS.

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- 3. ARCHED ROOF CONSTRUCTION: 1 1/2" X 20 GA (TYPE B) ROOF DECK. DECK TO BE FASTENED TO TRUSS AT 6" O.C. (#12 SELF DRILLING). SIDE LAPS SHALL BE #12 OR #14 AT 12" O.C. AT BOUNDARY EDGES SPACE FASTENERS AT 6" O.C.
- 4. FLAT ROOF CONSTRUCTION: 1 1/2" 20 GA (TYPE B) ROOF DECK TO BE PUDDLE WELDED TO SUPPORTS AT A 36/5 PATTERN W/(6) SCREWS PER SIDE LAP
- 5. TRUSS T"X" INDICATES TRUSS DESIGNATION: LIGHT GAGE TRUSS SPACED AT 24" O.C. - SEE BUILDING SECTIONS. (COORD TRUSS PROFILE W/ARCH DWGS)
- 6. COORDINATE ROOF PENETRATIONS W/ ARCH/MEP DWGS.
- 7. COORDINATE OVERHANG AND EAVE HEIGHTS W/ ARCH DWGS.
- 8. COORDINATE ROOF SLOPE W/ ARCH DWGS.
- 9. SEE 2/S2.1 FOR STORM SHELTER LID FRAMING PLAN.

CODED NOTES:

- \langle 1 \rangle storm shelter below, see 2/S2.1
- $\langle 2 \rangle$ Column from Below See Sheet **S1.1**
- \langle 3 \rangle 22" DEEP "ARCHED JOIST". JOIST DESIGNER TO DESIGN JOIST FOR UNIFORM: LIVE LOAD OF 125 PLF (TOP CHORD) DEAD LOAD OF 100 PLF (TOP CHORD)
- LIVE LOAD OF 25 PLF (BOTTOM CHORD)
- DEAD LOAD OF 25 PLF (BOTTOM CHORD)

igg< 4igg> beam to be skewed

5 CONT ANGLE BOLTED TO CMU AND WELDED TO METAL DECK - SEE DETAILS 1& 2/ S6.7

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-(C.2) —(C.3)

GENERAL NOTES - SHELTER:

- COORDINATE ALL DIMENSIONS W/ ARCH DWGS. IN CASE OF CONFLICT, THE DIMENSIONS SHOWN IN THE ARCH DWGS GOVERN.
- 2. STRUCTURAL PLANS ARE AN EXTENSION OF ARCHITECTURAL PLANS. COORDINATE LOCATIONS OF COLUMNS, WALLS, OPENINGS, ETC W/ ARCH DWGS. 3. FLOOR CONSTRUCTION:

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- A. STORM SHELTER: 4" SLAB ON GRADE REINF W/ 6x6xW2.9xW2.9 OVER 10 MIL VAPOR BARRIER ON 6" DEEP COMPACTED GRANULAR FILL. T/SLAB = 100'-0".
- 4. ALL EXTERIOR FOOTINGS TO EXTEND TO A MIN OF 36" BELOW GRADE.
- 5. TR# INDICATES CONT TRENCH FOOTING MARK.
- 6. WF# INDICATES CONT WALL FOOTING MARK.
- 7. SSF# INDICATES CONT STORM SHELTER WALL FOOTING MARK.
- 8. T/FTG XX'-XX" INDICATES TOP OF FOOTING ELEVATION.
- 9. INDICATES FOOTING STEP SEE DETAIL 7 / S6.1
- 10. WALL CONSTRUCTION:
- A. FOR 8" CONCRETE STORM SHELTER WALLS: (MARKED AS CODED NOTE F.2) 8" THICK REINF CONC WALL (4,000 PSI) W/ #6 VERT @8" O.C. AND #5 HORIZ @8" O.C. **REINFORCING?**
- 11. SEE SHEET **S0.X** FOR STORM SHELTER QUALITY ASSURANCE PLAN.
- 12. CONTRACTOR TO COORDINATE ALL UNDERGROUND UTILITIES AS REQUIRED. SEE DETAIL 1/S6.2 FOR UTILITIES CROSSING THROUGH/UNDER FOOTINGS. FOOTING MAY NEED TO STEP (DETAIL 7/S6.1). REFER TO MEP/ARCH DWGS FOR UTILITIES.
- 13. SEE SHEETS SO.X AND SX.X FOR SHELTER LINTEL INFORMATION AND DETAILS (U.N.O.).
- 14. SEE SHEET **S1.1** FOR FOOTING AND COLUMN SCHEDULES.

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7'-6 1/4"

SKEWED BEAM - SEE PLAN

- CONC FOOTING -SEE PLAN

S5.1





























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		A	App F, Architecture creative focused design 615 Woodside Drive, Englewood, Ohio 45322 T 937.836.8898 F 937.832.3696 www.app-arch.com
WALL - SEE OR LOCATIONS		В	CONSTRUCTION AND CONSTRUCTION AND CONSTRUCTION OF CONSTRUCTION OF CONSTRUCTION AND CONSTRUCTURA AND CONSTRUC
		C	Kabil Associates, Inc. Sp00 Sharon Woods Boulevard Columbus, Ohio 43229 Phone: (614) 899-6707
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			TITLE TYPICAL STRUCTURAL DETAILS SHEET NO. SHEET NO.







<u>TYPE "B"</u>						
		LINTEL SCH	EDULE - ML			
IARK	WALL THICKNESS	LINTEL HEIGHT	REINF	MAX CLEAR SPAN	TYPE	
ML	8"	8"	(2) #5	4'-0"	А	
SPECIAL LINTEL SCHEDULE						
ML1	8"	16"	(2) #5		В	
ML2	8"	24"	(2) #5		В	

<u>TYPE "B"</u>						
LINTEL SCHEDULE - ML						
RK	WALL THICKNESS	LINTEL HEIGHT	REINF	MAX CLEAR SPAN	TYPE	
-	8"	8"	(2) #5	4'-0"	А	
SPECIAL LINTEL SCHEDULE						
1	8"	16"	(2) #5		В	

<u>SIZE</u>	8" CMU WALL	10" CMU WALL	12" CMU WALL	HEADED <u>STUDS</u>
W6	3/8" x 7 1/2" x 7 1/2"	-	-	(2) 1/2"Ø x 6" LG
W8 W10	1/2" x 10" x 7"	1/2" x 9" x 9"	3/8" x 7 1/2" x 7 1/2"	(2) 1/2"Ø x 8" LG
W12 W14	1/2" x 10" x 7"	1/2" x 11" x 9"	1/2" x 11" x 11"	(2) 5/8"Ø x 8" LG
W16 W18	1/2" x 12" x 7 1/2"	1/2" x 12" x 9"	1/2" x 14" x 11"	(2) 3/4"Ø x 8" LG
W21 W24	3/4" x 7 1/2" x 16"	3/4" x 9 1/2" x 16"	3/4" x 11" x 16"	(3) 3/4"Ø x 12" LG
1. BEARIN	NG PLATE DIMENSIO	ONS MAY BE ADJUS	TED AS REQ'D TO BETT	ER FIT WALL OR

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TYPICAL STRUCTURAL

DETAILS



















NOTE: COORDINATE MECH UNIT CURB DETAIL. DESIGN INTENT IS





PROVIDE SHOP-ASSEMBLED & SHOP-WELDED ROOF FRAMES TO DIMENSIONS REQUIRED FOR EQUIPMENT OR ROOF HATCH. COORDINATE W/ ARCH OR MECH.







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BEAM SPACING (FIELD VERIFY)

PRIMARY CURB ANGLE(S)

(SPAN BEAM TO BEAM) -

SECONDARY CURB ANGLE(S)



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				FIRE	
				GENER	AL NOTES:
				PIPING	SHALL CONFO
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А				PIPING	SHALL BE PITC
				CLOSE	OPEN ENDS O
				MATTER	R AND BURRS
_				PIPING ABOVE	SHALL NOT BE
				FLEXIBL CORRU	.E HOSES SHA GATIONS ARE
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					WET I 2.5'
					WET
В					DRY I 2 5'
					DRY F
				F	INAL CONNEC
				TYPE	
				S1	ROLL GROO
					SCHEDULE 1 ASTM A135 C
					NITRILE /EPC ASTM A47/A4
				S2	THREADED SCHEDULE 4
					ASTM A53 OF 150 LB. MALL SCREWED FI
С				S3	ROLL/CUT G
					SCHEDULE 4 ASTM A53 OF
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RESSION PIPING

ORM TO OBC REQUIREMENTS.

- AND TESTING SHALL COMPLY WITH NFPA 13 (2016 EDITION).
- EVES AT WALLS IN NEW CONSTRUCTION.
- CHED FOR DRAINAGE.
- CFITTINGS FOR TRANSITIONS BETWEEN FERROUS AND NON-FERROUS

OF PIPING DURING CONSTRUCTION.

- ALL BE CUT AND FABRICATED TO FIELD MEASUREMENTS AND RUN AL BUILDING LINES. PIPE INTERIOR SHALL BE CLEANED OF FOREIGN BEFORE ERECTION OF PIPE.
- E RUN ABOVE ELECTRICAL SWITCHGEAR OR PANELBOARDS, NOR SPACE OF SUCH EQUIPMENT - NEC ARTICLE 384.
- ALL BE CONSTRUCTED WITH ANNULAR CORRIGATIONS. HELICAL E NOT ACCEPTED.

PING SYSTEM TYPE **PIPE SPRINKLER** S1, S2, S3 AND LARGER **PIPE SPRINKLER** S2 AND SMALLER **PIPE SPRINKLER** S4, S5 " AND LARGER PIPE SPRINKLER S4 AND SMALLER CTION TO SPRINKLER HEAD S2, F1 DESCRIPTION TYPE DESCRIPTION OVED BLACK STEEL S4 THREADED GALVANIZED STEEL SCHEDULE 40, OR ASTM A795 ASTM A53 OR ASTM A795, /DUCTILE FITTINGS **GRAY-IRON THREADED FITTINGS** DM GASKETS ASME B16.4, CLASS 125, STANDARD PATTERN 47M OR A536 S5 ROLL/CUT GROOVED GALVANIZED BLACK STEEL STEEL R ASTM A795, SCHEDULE 40, ASTM A53 OR ASTM A795, LEABLE OR C.I. FITTINGS MALLEABLE/DUCTILE FITTINGS NITRILE /EPDM GASKETS ASTM A47/A47M OR A536 F1 FLEXIBLE SPRINKLER HOSE ROOVED BLACK FITTING 36" LENGTH MAXIMUM FULLY STAINLESS STEEL FLEXIBLE R ASTM A795 HOSE WITH CEILING BRACKET /DUCTILE FITTINGS UL 2443 AND FM 1637 DM GASKETS 175 PSI RATING 47M OR A536 FOLLOW UL STANDARDS FOR BEND RADIUS AND NUMBER OF BENDS

GENERAL REQUIREMENTS

- WORK SHALL BE IN ACCORDANCE WITH THE 2024 OHIO BUILDING AND MECHANICAL CODES INCLUDING REFERENCED CODES AND STANDARDS, ALL FEDERAL AND LOCAL CODES AND ALL APPLICABLE LAWS, ORDINANCES AND REGULATIONS.
- BIDDERS ON FIRE SUPPRESSION WORK SHALL BE REGULARLY ENGAGED IN SPRINKLER SYSTEM WORK AND BE CERTIFIED BY THE STATE.
- WORK SHALL BE PERFORMED USING BEST QUALITY INSTALLATION PRACTICE BY A QUALIFIED TRADE CONTRACTOR AND THEIR QUALIFIED SUBCONTRACTORS. ALL CONTRACTORS SHALL BE LICENSED AND BE BONDED FOR THE WORK.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA AND OWNER SAFETY STANDARDS AND PRACTICES. ALL ON SITE PERSONNEL SHALL BE SAFETY TRAINED AND OWNER CERTIFIED.
- OBTAIN REQUIRED PERMITS RELATED TO THE WORK AND PAY ALL PERMIT AND INSPECTION FEES.
- THE AUTHORITY HAVING JURISDICTION SHALL INSPECT AND APPROVE ALL WORK. PROVIDE A FINAL CERTIFICATE OF APPROVAL FROM THE AUTHORITY HAVING JURISDICTION AND PRESENT TO THE OWNER BEFORE REQUESTING FINAL PAYMENT AND RELEASE OF RETAINAGE.
- PERFORM A FLOW TEST TO SERVE AS THE BASIS FOR HYDRAULIC CALCULATIONS. DEVELOP HYDRAULIC CALCULATIONS AND INSTALLATION DRAWINGS NEEDED TO OBTAIN APPROVAL FROM AUTHORITY HAVING JURISDICTION. CALCULATIONS SHALL INCLUDE A 10% SAFETY FACTOR.
- PROTECT ALL FURNISHED MATERIAL AND EQUIPMENT FROM THEFT AND DETERIORATION OR CONTAMINATION DUE TO WEATHER OR CONSTRUCTION ACTIVITIES.
- 0. PROTECT OWNER'S PROPERTY AND PROPERTY OF OTHER CONTRACTORS.
- . REMOVE ALL CONSTRUCTION DEBRIS FROM SITE. RECYCLE DEBRIS WHERE POSSIBLE. DISPOSE OF ALL HAZARDOUS MATERIAL IN ACCORDANCE WITH ENVIRONMENTAL LAWS.
- 2. PROVIDE ALL CUTTING AND PATCHING REQUIRED TO INSTALL MATERIAL AND EQUIPMENT.
- 13. PROVIDE APPROPRIATE FIRESTOPPING SYSTEM FOR ANNULAR SPACE OPENINGS AROUND PIPE PENETRATIONS THROUGH FIRE RESISTANCE RATED CONSTRUCTION. ANNULAR SPACE OPENINGS AT PIPE PENETRATIONS IN NON RATED CONSTRUCTION TO BE CLOSED AIR AND WATER TIGHT.
- 14. MATERIALS AND EQUIPMENT SHALL BE ONE OF THE BRAND OR MANUFACTURERS LISTED OR AN APPROVED EQUAL.
- 5. ELECTRONIC SHOP DRAWINGS SHALL BE PROVIDED IN .PDF FORMAT FOR THE ENGINEER'S APPROVAL FOR ALL MATERIALS AND EQUIPMENT. SHOP DRAWINGS SHALL BE SPECIFICALLY EDITED TO ELIMINATE SUPERFLUOUS INFORMATION AND SHALL CLEARLY SHOW SPECIFICS FOR THE MATERIAL AND EQUIPMENT PROVIDED.
- . COORDINATE INSTALLATION OF ACTUAL EQUIPMENT AND SYSTEMS PROVIDED WITH OTHER TRADES AND NEW OR EXISTING CONDITIONS.
- 7. INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
- 8. INSTALL ALL MATERIAL AND EQUIPMENT TO PROVIDE REQUIRED CLEARANCES TO MEET CODE REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS AND MAINTENANCE SERVICE.
- 19. ALL WORK AREAS SHALL BE CLEANED TO MATCH ORIGINAL CONDITION.
- 20. MAINTAIN RECORD DRAWINGS AND PROVIDE TO THE OWNER OR HIS AGENT.
- 1. PROVIDE TWO (2) BOUND, PAPER COPIES OF ALL OPERATING AND MAINTENANCE MANUALS. PROVIDE AN ELECTRONIC COPY OF THE OPERATING AND MAINTENANCE MANUAL.
- 2. PROVIDE WARRANTY FOR ALL WORKMANSHIP, EQUIPMENT AND MATERIAL. WARRANTY SHALL BE 1 YEAR FOR PARTS AND LABOR, PROVIDE EXTENDED WARRANTY PERIOD FOR PARTS AND/OR LABOR AS IDENTIFIED OR AS STANDARD FOR CERTAIN ITEMS OF EQUIPMENT.

A. PROVIDE A COMPLETE SPRIN BUILDING. BUILDING SHALL B COMPLETION OF PROJECT. B. ALL FIRE SUPPRESSION EQUIR SUPPRESSION SERVICE. PROVIDE A FIRE WATCH IN AC REQUIREMENTS. . ALL FIRE SUPPRESSION SYST CONNECTION, SPRINKLER SYS SHALL BE HYDROSTATICALLY NO VISIBLE LEAKAGE. ALL CO TESTED, WITH NO LEAKAGE, WATER. THE FIRE PROTECTION AUTHORITIES HAVING JURISD TO ALLOW AHJ TO WITNESS A ALL VALVES CONTROLLING W WITH TAMPER SWITCHES (SEE THE FIRE SPRINKLER SYSTEM APPROVED CENTRAL STATION WITH O.B.C. AND N.F.P.A. 72. G. THE FIRE SUPPRESSION CONT OF ELECTRICAL FIRE SUPPRE THE ELECTRICAL AND/OR FIRE ALARM WIRING BY ELECTRICA **BE FURNISHED AND INSTALLE** CONTRACTOR. THE FIRE SUPPRESSION CON LAYOUT OF THE FIRE SUPPRE PRIOR TO INSTALLATION. THE FIRE SUPPRESSION CON ALL CONCEALED SPRINKLER IN CEILING TILES. ALL PENDEI SHALL BE SYMMETRICAL WITH VERIFY THE LOCATION AND T CONNECTION WITH THE FIRE . LOCAL SPRINKLER ALARM AN SHALL BE THRU THE FIRE ALA CONCEALED, NONCOMBUSTIE SPRINKLERS. M. FINAL APPROVAL IS SUBJECT AHJ. **DESIGN CRITERIA** DESIGN AND INSTALLATION O SPRINKLER SYSTEM SHALL C THE 2024 OHIO BUILDING COD AUTHORITIES HAVING JURISD WORKING PLANS AND HYDRA PREPARED, SUBMITTED, AND BY THE FIRE SUPPRESSION C

- WATER SUPPLY DATA: THE FI RESPONSIBLE FOR CONDUCT WATER SUPPLY DATA FROM FOR USE IN THE HYDRAULIC
- HYDRAULIC DESIGN CRITERIA AREAS EXCEPT WHERE NOTE DENSITY:
 - DESIGN AREA: MAX SPRINKLER
 - COVERAGE: HOSE DEMAND:
- DURATION:
- HYDRAULIC DESIGN CRITERIA AREAS: (STORAGE ROOMS, M KITCHEN, COMMUNICATION R DENSITY:
- DESIGN AREA: MAX SPRINKLER COVERAGE:
- HOSE DEMAND:
- DURATION:
- 3. ALL SPRINKLER HEADS SHALL SPRINKLER HEADS IN AREAS CONCEALED PENDENT TYPE V
- TO MATCH THE ADJACENT CE FINISH.
- SPRINKLER HEADS IN AREAS CUSTOM COLOR UPRIGHTS. BE USED IN STAIRWELLS WHE PROVIDED.

	• •		
G	ENERAL NOTES	GENE	RAL LEGEND
А.	PROVIDE A COMPLETE SPRINKLER SYSTEM THROUGHOUT THE	EC	ELECTRICAL CONTRACTOR.
	BUILDING. BUILDING SHALL BE CONSIDERED FULLY SUPPRESSED AT COMPLETION OF PROJECT.	FC	FIRE PROTECTION CONTRACTOR.
В.	ALL FIRE SUPPRESSION EQUIPMENT SHALL BE UL LISTED FOR FIRE	GC	GENERAL CONTRACTOR.
	SUPPRESSION SERVICE.	HC	HVAC CONTRACTOR.
C.	PROVIDE A FIRE WATCH IN ACCORDANCE WITH "AHJ" REQUIREMENTS.	PC	PLUMBING CONTRACTOR.
D.	ALL FIRE SUPPRESSION SYSTEMS (SERVICE MAIN, FIRE DEPT.		TEMPERATURE CONTROLS CONTRACTOR.
	CONNECTION, SPRINKLER SYSTEM, INSPECTOR TEST, DRAIN, ETC.) SHALL BE HYDROSTATICALLY TESTED AT 200 PSI FOR 2 HOURS WITH	NIC	
	NO VISIBLE LEAKAGE. ALL CONCEALED PIPING SHALL BE AIR TESTED, WITH NO LEAKAGE, PRIOR TO FILLING SYSTEM WITH	AFF	UNLESS INDICATED OTHERWISE IN DRAWING.
	WATER. THE FIRE PROTECTION CONTRACTOR SHALL NOTIFY ALL AUTHORITIES HAVING JURISDICTION 24 HOURS PRIOR TO THE TEST	(E)	EXISTING.
_	TO ALLOW AHJ TO WITNESS ALL TESTS.	ES	EQUIPMENT SUPPLIER.
E.	ALL VALVES CONTROLLING WATER SUPPLIES SHALL BE PROVIDED WITH TAMPER SWITCHES (SEE NOTE E).	3	NOTE SYMBOL - APPLIES ONLY TO SHEET ON WHICH IS SHOWN.
F.	THE FIRE SPRINKLER SYSTEM SHALL BE SUPERVISED BY AN APPROVED CENTRAL STATION FIRE ALARM SYSTEM IN ACCORDANCE WITH O.B.C. AND N.F.P.A. 72.	2	DETAIL NOTE SYMBOL - APPLIES ONLY TO DETA ON WHICH IS SHOWN.
G.	THE FIRE SUPPRESSION CONTRACTOR SHALL COORDINATE WIRING OF ELECTRICAL FIRE SUPPRESSION DEVICES AND EQUIPMENT WITH THE ELECTRICAL AND/OR FIRE ALARM CONTRACTOR. ALL FIRE	H-1	EQUIPMENT REFERENCE SYMBOL. ELECTRICAL CONNECTION REQUIRED.
	ALARM WIRING BY ELECTRICAL CONTRACTOR. ALL DEVICES SHALL BE FURNISHED AND INSTALLED BY THE FIRE SUPPRESSION CONTRACTOR.	B H2	DETAIL SYMBOL DETAIL "B" SHOWN ON SHEET H2.
H.	THE FIRE SUPPRESSION CONTRACTOR SHALL COORDINATE THE LAYOUT OF THE FIRE SUPPRESSION SYSTEM WITH ALL TRADES PRIOR TO INSTALLATION.	A H1	SECTION SYMBOL SECTION "A" DESIGNATION, SHOWN ON SHEET H
١.	THE FIRE SUPPRESSION CONTRACTOR SHALL CENTER (WITHIN 1") ALL CONCEALED SPRINKLER HEADS INSTALLED IN ACOUSTICAL LAY-		— ITEM TO BE REMOVED.
	IN CEILING TILES. ALL PENDENT SPRINKLER HEADS IN CEILINGS SHALL BE SYMMETRICAL WITH LIGHTING AND AIR DEVICES.		EXISTING TO REMAIN.
J.	VERIFY THE LOCATION AND TYPE OF FIRE DEPARTMENT		NEW ITEM.
К.	LOCAL SPRINKLER ALARM AND REMOTE ALARM AND SUPERVISION SHALL BE THRU THE FIRE ALARM SYSTEM PROVIDED BY THE E.C.	FIRE	SUPPRESSION LEGEND
L.	CONCEALED. NONCOMBUSTIBLE ATTIC SPACES DO NOT REQUIRE	— F —	FIRE SUPPRESSION SYSTEM
	SPRINKLERS.	s	
М.	FINAL APPROVAL IS SUBJECT TO ACCEPTANCE AND TESTING BY ALL AHJ.	A	GATE VALVE
			— VALVE
D	ESIGN CRITERIA	Hx	VALVE ON RISER
1			— CHECK VALVE
1.	SPRINKLER SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF THE 2024 OHIO BUILDING CODE, N.F.P.A. 13 (2022 EDITION), AND ALL AUTHORITIES HAVING JURISDICTION (AHJ).		SUPERVISED VALVE
2.	WORKING PLANS AND HYDRAULIC CALCULATIONS SHALL BE PREPARED, SUBMITTED, AND APPROVED PRIOR TO INSTALLATION, BY THE FIRE SUPPRESSION CONTRACTOR. PLANS SHALL INCLUDE	FS	FLOW SWITCH
	ALL ITEMS LISTED IN N.F.P.A. 13.		
3.	WATER SUPPLY DATA: THE FIRE SUPPRESSION CONTRACTOR IS RESPONSIBLE FOR CONDUCTING A FLOW TEST TO OBTAIN CURRENT		CONNECTION, BOTTOM
	WATER SUPPLY DATA FROM THE NEW WATER DISTRIBUTION SYSTEM FOR USE IN THE HYDRAULIC CALCULATIONS.	—()—	CONNECTION, TOP
4.	HYDRAULIC DESIGN CRITERIA FOR LIGHT HAZARD AREAS: (ALL		ELBOW, 90°., LONG RADIUS
	DENSITY: 0.10 GPM/SQ.FT.		ELBOW, 45°.
	DESIGN AREA: MOST DEMANDING 1500 SQ. FT.		
	(REDUCTION WITH QUICK RESPONSE HEADS PERMITTED)		
	MAX SPRINKLER 225 SQ. FT./HEAD		
	COVERAGE:		REDUCER
	HOSE DEMAND: 100 GPM		UNION
5.	DURATION: 30 MINUTES HYDRAULIC DESIGN CRITERIA FOR ORDINARY HAZARD (GROUP 1)	P 	PRESSURE GAUGE
-	AREAS: (STORAGE ROOMS, MECHANICAL ROOMS, JANITOR'S ROÓMS, KITCHEN, COMMUNICATION ROOMS)	0	SPRINKLER BEING REMOVED
	DENSITY: 0.15 GPM/SQ.FT.	0	PENDANT SPRINKLER
	DESIGN AREA: MOST DEMANDING 1500 SQ. FT.	0	UPRIGHT SPRINKLER
	MAX SPRINKLER 130 SQ. FT./HEAD COVERAGE:	Ø	SEMI-RECESSED SPRINKLER
	HOSE DEMAND: 250 GPM	Ø	CONCEALED SPRINKLER
	DURATION: 60 MINUTES	⊘	INSTITUTIONAL PENDANT SPRINKLER
6.	ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE.		
7.	SPRINKLER HEADS IN AREAS WITH FINISHED CEILINGS SHALL BE		
	CONCEALED PENDENT TYPE WITH FLAT PLATE AND CUSTOM COLOR TO MATCH THE ADJACENT CEILING COLOR OR FINISH. / WHITE	FIRE S	SUPPRESSION
	FINISH.		OF DRAWINGS
8.	SPRINKLER HEADS IN AREAS WITH NO CEILINGS SHALL BE BRASS/ CUSTOM COLOR UPRIGHTS. SIDEWALL SPRINKLER HEADS MAY ALSO BE USED IN STAIRWELLS WHERE PROPER COVERAGE CAN BE PROVIDED	SHEET F0.1	DRAWING TITLE LEGENDS AND SCHEDULES
		F0.2	DETAILS
		F1 1	FIRST FLOOR FIRE SUPPRESSION



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GENERAL NOTES:

FLEXIBLE SPRINKLER PIPING SHALL BE 36" MAXIMUM AND MEET UL STANDARDS FOR MINIMUM BEND RADIUS AND MAXIMUM NUMBER OF BENDS.

FLEXIBLE HOSES SHALL BE CONSTRUCTED WITH ANNULAR CORRUGATIONS. HELICAL CORRUGATIONS ARE NOT ACCEPTABLE.

ONE BEND IS EQUAL TO ONE 90° DEGREE CHANGE IN PIPING DIRECTION.

TWO BENDS ARE EQUAL TO TWO 90° DEGREE, TOTAL OF 180° CHANGE IN PIPE

REFER TO FLEXIBLE HOSE MANUFACTURERS SPECIFICATION FOR THE ALLOWABLE NUMBER OF BENDS IN PROVIDED LENGTHS OF FLEXIBLE HOSES.

THE FIRE SUPPRESSION CONTRACTOR IS RESPONSIBLE FOR COORDINATING SPRINKLER PIPING BRANCH RUNS TO ALLOW FOR INSTALLATION OF FLEXIBLE HOSES TO UL STANDARDS.



6


	1	I	2	I	3		4			5	;		
	PIPE HANGE	R SCHEDULE - PL	LUMBING] PLU	IMBING FIXTURE SCHEDULE								
	GENERAL NOTES FOR P	PIPE HANGERS:		ІТЕМ	FIXTURE DESCRIPTION	FIXTURE	CONNECTION	IS MTG. SAN. HGT.	SUPPLY	STOPS	TRIM REQU		CARRIERS
	DESIGN SUPPORTS FOR SYSTEMS, SYSTEM CON DESIGN SEISMIC-RESTR AUTHORITIES HAVING JI	R MULTIPLE PIPES CAPABLE OF SU ITENTS, AND TEST WATER. RAINT HANGERS AND SUPPORTS F	IPPORTING COMBINED WEIGHT OF SUPPORTED	<u>W1</u>	WATER CLOSET/ VIT. CHINA/ FLOOR SET/ MANUAL FLUSH VALVE/ 1.6 GPF/ ELONGATED BOWL/ 16 1/2" RIM HEIGHT/ 1,000 MG MaP SCORE/ OPEN FRONT SEAT WITH LID/ ACCESSIBLE	AM. STANDARD # 3043.001	1"	4"	SLOAN # SLOAN 111-1.6	UNIT	UNIT	INTEGRAL	
А	WELDING: QUALIFY PRO VESSEL CODE: SECTION	DCEDURES AND PERSONNEL ACC	ORDING TO ASME BOILER AND PRESSURE	<u>W2</u>	WATER CLOSET/ VIT. CHINA/ FLOOR SET/ TANK TYPE/ HANDLE ON RIGHT/ 1.6 GPF/ ELONGATED BOWL/ 16 1/2" RIM HEIGHT/ 1,000 MG MaP SCORE/ OPEN FRONT SEAT WITH LID/ ACCESSIBLE	AM. STANDARD # 211AA.005	1/2"	4"	UNIT	MCGUIRE # LFBV2166	UNIT	INTEGRAL	
	ATTACHMENT OF PIPE H 1. PRE-SET CONCRETE 2. AFTER-SET STEEL E 3. BEAM CLAMPS FOR IN SLOPED STEEL CO	ANGER RODS TO THE STRUCTUR E INSERTS. EXPANSION TYPE CONCRETE INSE STEEL CONSTRUCTION EQUAL TO DNSTRUCTION TO PROVIDE VERTION	E SHALL BE WITH: RTS.) ANVIL FIG. 92, 93, OR 94. UTILIZE SWIVEL TYPE CAL SUPPORT OF PIPE WITHOUT BENDING	<u>U1</u>	URINAL/ VIT. CHINA/ WALL HUNG/ MANUAL FLUSH VALVE/ 1.0 GPF/ WASHOUT/ ACCESSIBLE	AM. STANDARD # 6590.001	3/4"	2" 17" TO LIP	SLOAN # SLOAN 186-1.0	UNIT	UNIT	INTEGRAL	ZURN # Z1222
	HANGER RODS. 4. SIDE BEAM BRACKE 5. CHANNEL SUPPORT	T FOR WOOD CONSTRUCTION EQ SYSTEM EQUAL TO UNISTRUT OR	UAL TO ANVIL FIG. 206. R HILTI.	<u>U2</u>	URINAL/ VIT. CHINA/ WALL HUNG/ MANUAL FLUSH VALVE/ 1.0 GPF/ WASHOUT/	AM. STANDARD # 6590.001	3/4"	2" 24" TO LIP	SLOAN # SLOAN 186-1.0	UNIT	UNIT	INTEGRAL	ZURN # Z1222
_	ATTACHMENT TO MANU SUPPORTS SHALL BE DO RECOMMENDATIONS. R ENGINEERED STRUCTUR SHALL BE MADE WITH CO MANUEACTURED. PROV	FACTURED TRUSSES AND OTHER ONE IN ACCORDANCE WITH THE S REFER TO THE ARCHITECTURAL AN RAL SYSTEMS BEING USED. CONN CONNECTION DEVICES AND METHO	ENGINEERED STRUCTURAL MEMBERS AND TRUCTURAL MANUFACTURER'S ND STRUCTURAL DRAWINGS FOR TYPE OF NECTIONS TO THESE STRUCTURAL MEMBERS DDS APPROVED BY THE STRUCTURAL	<u>L1</u>	LAVATORY/ SOLID SURFACE/ INTEGRAL WITH COUNTERTOP/ 2-HANDLED CAST BRASS FAUCET/ 0.5 GPM/ ASSE 1070 DEVICE/ ACCESSIBLE	BY OTHERS	1/2" 1/2" 1	1 1/4"	ELKAY # LK402L2	MCGUIRE # LFBV2165	WITH TRAP	MCGUIRE # PW2150WC	
	ADJUST PIPE HANGERS BEFORE PIPE INSULATIO	TO PROPER ELEVATION AND SET DN IS INSTALLED.	PECIFIED DISTANCES. HANGER RODS IN A VERTICAL POSITION	<u>L2</u>	LAVATORY/ SOLID SURFACE/ INTEGRAL WITH COUNTERTOP/ 2-HANDLED CAST BRASS FAUCET W 5" GOOSENECK/ 1.5 GPM/ ASSE 1070 DEVICE/ ACCESSIBLE	BY OTHERS	1/2" 1/2" 1	1 1/4"	ELKAY # LK800GN05L2	MCGUIRE # LFBV2165	WITH TRAP	MCGUIRE # PW2150WC	
в	THE FIRST TWO HANGER WITH A STEEL SPRING A NO. 30N.	RS ON PIPING CONNECTING TO MO AND NEOPRENE VIBRATION ISOLAT	OTOR DRIVEN EQUIPMENT SHALL BE FITTED TION SECTION SIMILAR TO MASON INDUSTRIES,	<u>S1</u>	SINK/ UNDERMOUNT/ DOUBLE BOWL/ 14 1/2" x17" x 9" DEEP BOWLS/ 2-HANDLED CAST BRASS FAUCET W 8" GOOSENECK & SPRAY/ DISPOSAL	ELKAY # ECTRU31179T	1/2" 1/2" 1	(2) 1 1/2"	ELKAY # LK801GN08L2	MCGUIRE # LFBV2165	MCGUIRE # 151A	MCGUIRE # 8912 & # 111	
	TRAPEZE HANGERS FOR MEMBERS SHALL BE UN AND SPRING AND NUT C INDIVIDUAL PIPE HANGE	R NUMEROUS PIPES RUN IN PARAI IISTRUT TYPE SECTION WITH PIPE CONNECTORS, SUSPENDED WITH I	LLEL MAY BE UTILIZED. HORIZONTAL SUPPORT ROLLERS (TO ALLOW FOR EXPANSION TRAVEL) HANGER RODS AND ATTACHMENTS SIMILAR TO	<u>S2</u>	SINK/ ST. ST./ UNDERMOUNT/ SINGLE BOWL/ 17" X 17" X 9" DEEP BOWL/ 2-HANDLED CAST BRASS FAUCET W 8" GOOSENECK & SPRAY	ELKAY # ECTRU17179T	1/2" 1/2" 1	1 1/2" -	ELKAY # LK801GN08L2	MCGUIRE # LFBV2165	MCGUIRE # 151A	MCGUIRE # 8912	
	SHORTENED EXTENDED CLAMP WITHIN THE PIPE	D LEGS OF PIPE RISER CLAMPS AS E CHASE. INSURE THAT ADEQUATE	NEEDED TO MAINTAIN CONCEALMENT OF THE E SUPPORT IS STILL MAINTAINED.	<u>SH1</u>	SHOWER/ STALL BY OTHERS/ CENTER DRAIN STYLE/ PRESSURE BALANCING MIXING VALVE WITH FIXED HEAD AND HAND HELD ON SLIDE BAR/ DIVERTER VALVE IN WALL	BY OTHERS	1/2" 1/2"	2" VALVE 40" HEAD 78"	ZURN # Z7301-SS-MT-DV- 2P-HW-H9-S9	UNIT	UNIT	SAME AS SANITARY PIPING	
_	HANGER ASSEMBLIES E. INSTALLATION. PIPE SUPPORTS FOR PIP MANUEACTUREP'S INST	EXPOSED ON COMPLETION OF THE	SHALL BE INSTALLED IN ACCORDANCE WITH THE	<u>M1</u>	MOP SINK/ FLOOR SET/ 24" SQ. 10" DEEP/ MOLDED STONE/ VINYL. CAPS/ ST.ST. WALL PANELS/ ON 2 SIDES/ WALL MOUNTED FAUCET WITH INTEGRAL CHECK STOPS	FIAT # MSB2424	1/2" 1/2"	3" 36" FAUCET	ELKAY # LK940BP07L2S	UNIT	UNIT	SAME AS SANITARY PIPING	
	MEMBRANE UNDER THE AND THE SUPPORT SYS	E BASES TO SATISFY REQUIREMEN TEM MANUFACTURER.	TTS OF BOTH THE ROOFING MANUFACTURER	BF1	BOTTLE FILLER/ WALL SURFACE MOUNTED/ FILTERED/ REFRIGERATED	ELKAY # EZ8WSSSMC	1/2" 1	1 1/4" 34" TO RIM	UNIT	BALL VALVE	UNIT	CAST BRASS	ZURN # Z1225
0	HORIZONTAL PIPING AT LEFT UNSUPPORTED BE IN DIRECTION TAKES PL OR EVERY OTHER PIPE I FITTING SHALL BE SUPP	NORMAL SPECIFIED INTERVALS A ETWEEN ANY TWO COUPLINGS NO ACE. VERTICAL PIPING SHALL BE S LENGTH, WHICH EVER IS MORE FF PORTED.	ND, IN ADDITION, SO THAT NO PIPE SHALL BE OR LEFT UNSUPPORTED WHENEVER A CHANGE SUPPORTED AT NORMAL SPECIFIED INTERVALS REQUENT. THE BASE OF THE RISER OR BASE	<u>WB1</u> WB2	WASHER UTILITY CONNECTION BOX/ 1/4 TURN BALL VALVES WITH WATER HAMMER ARRESTOR/ WASTE CONNECTION WATER CONNECTION BOX/ 1/4 TURN BALL VALVE/ WATER	OATEY # 38540 OATEY	3/4" 3/4"	2" 30"	UNIT	BALL VALVES ABOVE CEILING BALL VALVE	UNIT	SAME AS SANITARY PIPING	
	SYSTEM & SIZE				HAMMER ARRESTOR/ 6' ST. ST. HOSE	# 38574							
	STEEL PIPING	HORIZONTAL 2" & SMALLER	8 FT.	<u>H1</u>	WALL HYDRANT/ ENCASED/ NON-FREEZE/ ANTI-SIPHON/ AUTOMATIC DRAINING/ 1/2 TURN CERAMIC DISC/ WALL CLAMP	ZURN # Z1320XL-EZ-WC	3/4"	- APPROX. 22"					
		HORIZONTAL 2.5" - 6"	10 FT.	EQUALS	<u>S</u>				NOTES:				
	CAST IRON	HORIZONTAL 8" & LARGER	12 FT. AT BASE AND 15 FT MAXIMUM	AMERIC CHICAG	CAN STANDARD CHINA - KOHLER, ZURN, SLOAN GO FAUCETS - ZURN, CHICAGO, T&S BRASS				1. COORDINATE MOUN	T HEIGHT WITH MASC)NRY COURSING.		
		HORIZONTAL	AT 10 FT. INTERVALS. SUPPORT EACH LENGTH OF PIPE NOT MORE THAN 18" FROM THE JOINT. SUPPORT TERMINAL ENDS OF HORIZONTAL RUNS AND BRANCHES AND EACH CHANGE IN DIRECTION. 5" AND LARGER PROVIDE BRACING TO PREVENT HORIZONTAL MOVEMENT IN ACCORDANCE WITH CIERLING COMPAREMENT IN ACCORDANCE WITH	ELKAY MCGUIF MCGUIF OATEY	SINKS - JUST, ACORN, ADVANCED TABCO RE - WATTS, BRASS CRAFT RE "PROWRAP" - TRUEBRO "LAV GUARD", PLUMBEREX "PROEXT SUPPLY BOXES - IPS, GUY GRAY, SIOUX CHIEF	REME"							
	COPPER TUBING	VERTICAL	AT BASE AND 15 FT MAXIMUM	1									
D		HORIZONTAL 1.25" & SMALLER	6 FT.] (GENERAL NOTES - PLUMBING			AIN SCHEDU	JLE			MATERIAL ABBRE	VIATIONS
		HORIZONTAL 1.5" - 2" HORIZONTAL 2.5" & LARGER	8 FT. 10 FT.	A	ALL WORK SHALL BE N ACCORDANCE WITH THE 2024 VERSIG THE OHIO BUILDING AND PLUMBING CODES, INCLUDING	ION OF	FD - FLC FS - FLC CO - CL	DOR DRAIN DOR SINK FAN OUT - FLOOR	RD - ROOF DRAIN SRD - SECONDAF SSO - SECONDAF	I {Y ROOF DRAIN 3Y STORM OUTLET		BR - BRASS AL -POWDERCOAT P - PLASTIC	ED ALUMINUM
	PLASTIC PIPING	VERTICAL	PER MANUFACTURER'S RECOMMENDATION	в	. OBTAIN A PLUMBING PERMIT AND SECURE INSPECTION AND	D C	WCO - C AD - ARI TD - TR	CLEAN OUT - WALL EA DRAIN				CI - CAST IRON NB - NICKEL BRON	ZE
		HORIZONTAL	PER MANUFACTURER'S RECOMMENDATION		APPROVAL OF THE CODE OFFICIAL.								F
_				- I c	. REMOVE ALL ABANDONED PIPING & SUPPORTS.				BODY OUT		TUF/STRAIN		
				— с 	 REMOVE ALL ABANDONED PIPING & SUPPORTS. COORDINATE EACH ROUGH-IN INSTALLATION REQUIREMENT LOCATIONS WITH OTHER TRADES, ACTUAL EQUIPMENT OR CABINETRY PROVIDED AND FIELD CONDITIONS BEFORE PERFORMING WORK. 	ITS AND			BODY OUT			ANNER	л Ф Ш
				E	 REMOVE ALL ABANDONED PIPING & SUPPORTS. COORDINATE EACH ROUGH-IN INSTALLATION REQUIREMENT LOCATIONS WITH OTHER TRADES, ACTUAL EQUIPMENT OR CABINETRY PROVIDED AND FIELD CONDITIONS BEFORE PERFORMING WORK. REFER TO ARCHITECTURAL CODE PLANS FOR LOCATIONS OF WALLS AND SMOKE PARTITIONS. IN SMOKE PARTITIONS FILL SPACE AROUND PENETRATIONS 	ITS AND OF FIRE S WITH			BODY OUT			FERIAL F OPEN EN - NO STRAINER	ATUR FLANGE SHING CLAMP DRAINAGE). BUCKET
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E				E	 REMOVE ALL ABANDONED PIPING & SUPPORTS. COORDINATE EACH ROUGH-IN INSTALLATION REQUIREMENT LOCATIONS WITH OTHER TRADES, ACTUAL EQUIPMENT OR CABINETRY PROVIDED AND FIELD CONDITIONS BEFORE PERFORMING WORK. REFER TO ARCHITECTURAL CODE PLANS FOR LOCATIONS OF WALLS AND SMOKE PARTITIONS. IN SMOKE PARTITIONS FILL SPACE AROUND PENETRATIONS AN APPROVED MATERIAL TO LIMIT THE FREE PASSAGE OF S IN FIRE WALLS SEAL ALL PENETRATIONS WITH AN APPROVE STOPPING PRODUCT, SEE SPECIFICATIONS. REFER TO DIAGRAMS, DETAILS, AND SCHEDULES FOR PIPIN PIPE SIZES NOT SHOWN ON PLAN OR ON DIAGRAMS. 	OF FIRE S WITH SMOKE. ED FIRE	TAG FD1 FD2	MODEL NUMBE SIOUX CHIEF # 863-435NQ SIOUX CHIEF # 863-435NQ	BODY OUTI THUS THUS P 3" P 3"	WOLLOB BUILD	POME AUJUS IABLE DOME FLAT FUNNEI	AATERIAL HALF OPEN OPEN - NO STRAINER	ANCHUK FLANGE ANCHUK FLANGE FLASHING CLAMP DBL. DRAINAGE SED. BUCKET
E				F.	 REMOVE ALL ABANDONED PIPING & SUPPORTS. COORDINATE EACH ROUGH-IN INSTALLATION REQUIREMENT LOCATIONS WITH OTHER TRADES, ACTUAL EQUIPMENT OR CABINETRY PROVIDED AND FIELD CONDITIONS BEFORE PERFORMING WORK. REFER TO ARCHITECTURAL CODE PLANS FOR LOCATIONS OF WALLS AND SMOKE PARTITIONS. IN SMOKE PARTITIONS FILL SPACE AROUND PENETRATIONS AN APPROVED MATERIAL TO LIMIT THE FREE PASSAGE OF S IN FIRE WALLS SEAL ALL PENETRATIONS WITH AN APPROVE STOPPING PRODUCT, SEE SPECIFICATIONS. REFER TO DIAGRAMS, DETAILS, AND SCHEDULES FOR PIPIN PIPE SIZES NOT SHOWN ON PLAN OR ON DIAGRAMS. ALL PIPING IS ABOVE THE CEILING (AT THE CEILING IN EXPOSIS STRUCTURE AREAS) UNLESS OTHERWISE INDICATED ON PLAN 	OF FIRE S WITH SMOKE. ED FIRE NG AND DSED LAN.	TAG FD1 FD2 FD3	MODEL NUMBE SIOUX CHIEF # 863-435NQ SIOUX CHIEF # 863-435NQ SIOUX CHIEF # 860-63W	BODY OUT THERE	WOLLOG Handler Handler <th< td=""><td>PONISIABLE ADJUSIABLE FLAT FLAT</td><td>HALF OPEN</td><td>ANCHOR FLANGE ANCHOR FLANGE ANCHOR FLANGE ANCHOR FLANGE ANCHOR FLANGE SED. BUCKET</td></th<>	PONISIABLE ADJUSIABLE FLAT FLAT	HALF OPEN	ANCHOR FLANGE ANCHOR FLANGE ANCHOR FLANGE ANCHOR FLANGE ANCHOR FLANGE SED. BUCKET
E				- с Д Е Г. G Н	 REMOVE ALL ABANDONED PIPING & SUPPORTS. COORDINATE EACH ROUGH-IN INSTALLATION REQUIREMENT LOCATIONS WITH OTHER TRADES, ACTUAL EQUIPMENT OR CABINETRY PROVIDED AND FIELD CONDITIONS BEFORE PERFORMING WORK. REFER TO ARCHITECTURAL CODE PLANS FOR LOCATIONS OF WALLS AND SMOKE PARTITIONS. IN SMOKE PARTITIONS FILL SPACE AROUND PENETRATIONS AN APPROVED MATERIAL TO LIMIT THE FREE PASSAGE OF S IN FIRE WALLS SEAL ALL PENETRATIONS WITH AN APPROVE STOPPING PRODUCT, SEE SPECIFICATIONS. REFER TO DIAGRAMS, DETAILS, AND SCHEDULES FOR PIPIN PIPE SIZES NOT SHOWN ON PLAN OR ON DIAGRAMS. ALL PIPING IS ABOVE THE CEILING (AT THE CEILING IN EXPOSIST STRUCTURE AREAS) UNLESS OTHERWISE INDICATED ON PL ALL EQUIPMENT AND MATERIAL REQUIRED FOR COMPLETE FUNCTIONAL PLUMBING SYSTEMS ARE INCLUDED IN THE CONTRACT. THE WORK SCOPE IN THE PROJECT MANUAL DE THE FINAL CONTRACTUAL RESPONSIBILITY TO PROVIDE 	ITS AND OF FIRE S WITH SMOKE. ED FIRE NG AND DSED LAN. AND EFINES	TAG FD1 FD2 FD3 FD4	MODEL NUMBE SIOUX CHIEF # 863-435NQ SIOUX CHIEF # 863-435NQ SIOUX CHIEF # 860-63W SIOUX CHIEF # 860-W4P26	BODY OUTI THEAT	WOLLOG Handler Handler <th< td=""><td>PONSTABLE ADJUSTABLE ADJUSTABLE ELAT ELAT ELAT</td><td>HALF OPEN</td><td>ANCHOR FLANGE ANCHOR FLANGE ANCHOR FLANGE BLASHING CLAMP BEL. DRAINAGE SED. BUCKET</td></th<>	PONSTABLE ADJUSTABLE ADJUSTABLE ELAT ELAT ELAT	HALF OPEN	ANCHOR FLANGE ANCHOR FLANGE ANCHOR FLANGE BLASHING CLAMP BEL. DRAINAGE SED. BUCKET
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			VALVE SCHEDULE					BU WA	ILDING SUPPLY SYS	STEN) AIF	AS SCHEDULE	BU	ILDING DRAIN ORM. SANITA	N SYSTEMS
			GENERAL NOTES FOR VALVES: QUALITY ASSURANCE					GENE	RAL NOTES:			GENE	RAL NOTES:	,
			VALVES SHALL COMPLY WITH ANSI, ASTM AN	ID ASME. ALL BE "I FAD FREE" IN A	CCORDANCE WITH	THE FEDERA	N SAFE WATER ACT (S3874)	QUAL PIPIN	TY ASSURANCE 3 SHALL CONFORM TO OBC REQUIREN	IENTS.		<u>QUAL</u> PIPIN	I <u>TY ASSURANCE</u> G SHALL CONFORM TO OE	BC REQUIREMENTS.
	Α		DEFINITION AND CONFORM TO NSF 61.					PIPIN	3 SHALL COMPLY WITH ASME B31.9 "BU	JILDING	SERVICES PIPING".	PIPIN	G SHALL COMPLY WITH AS	SME B31.9 "BUILDING
B Image: Signed Signe			BROOVED END VALVES SHALL CONFORM TO <u>PRODUCTS</u> WORKING PRESSURES SHALL EXCEED THOSE) ANSI/AWWA C-606. SE IMPOSED BY THE SER	VICE APPLIED.			ALL C FREE CONF	OMPONENTS OF DOMESTIC WATER SY 'IN ACCORDANCE WITH THE FEDERAL ORM TO NSF 61.	′STEMS SAFE V	(CW, HW, & HWR) SHALL BE "LEAD /ATER ACT (S3874) DEFINITION AND	FITTINGS HANDBOOK," CHAPTER IV, "INSTALLATION FITTINGS."		
			VALVES WHICH ARE INSULATED SHALL HAVE					PROD DIELE & COF	UCTS CTRIC CONNECTORS SHALL BE PROVII PPER PIPING.	DED AT	CONNECTIONS BETWEEN FERROUS	ON PI CHAN HAND	PING 5" AND LARGER PRO GE IN DIRECTION AS REQ BOOK," CHAPTER IV, "INS"	UIRED BY CISPI'S "C. TALLATION OF CAST
			PROVIDE HOSE ADAPTORS ON DRAIN VALVE	S.			S. TROVIDE METERING TOOL.	GAS F TYPE	RESSURE REGULATORS SHALL BE CA	ST IRON GM CAS	I SELF-OPERATING SPRING LOADED INGS SHALL BE ALUMINUM.	INSTA ASTM	LL PVC SOIL AND WASTE D 2665.	DRAINAGE AND VEN
	-		SWEAT END VALVES OF EQUAL CONSTRUCT	ION ARE ACCEPTABLE IN S OF EQUAL CONSTRUCT	N LIEU OF SCREWED) ENDS. IBLE ENDS A	RE ACCEPTABLE AND MAY BE	CONN PILOT SHAL	ECTION WITH REMOVABLE SCREEN ON OPERATOR TO AFFORD A 5% MAXIMUL L BE TEN TIMES THE INLET PRESSURE	N THE S M DRO((OR HIG	PRING CASING AND AN EXTERNAL DP. OVER-PRESSURE PROTECTION HER AS MAY BE REQUIRED BY THE	PROD PVC F	<u>UCTS</u> PIPING SHALL NOT BE USE	D IN SPACES USED A
			MANUFACTURED BY THE COUPLING MANUFA VALVE MANUFACTURERS: BALL VALVES - NIBCO, WATTS, MILWAUKEE, A	ACTURER. APOLLO. CONBRACO. CR	RANE.			GAS (UNIO)	COMPANY). FISHER TYPE S102 OR S202		UAL BY SPRAGUE OR EQUIMETER.	EXEC PIPE RUN F	<u>UTION</u> AND TUBING SHALL BE CU PARALLEL TO NORMAL BU IGN MATTER AND BURRS	IT AND FABRICATED ILDING LINES. PIPE II BEFORE ERECTION (
			BALANCING VALVES - BELL & GOSSETT, ARM CHECK VALVES - NIBCO, STOCKHAM, WATTS	STRONĠ, WATTS, CALEF	FI.			THRE	ADED STEEL PIPE - MALLEABLE IRON W	V/GROU	ND SEAT, 300 LB SCREWED ENDS. DRILL) ARE NOT PERMITTED.	ANNU PERM	LAR SPACE AROUND PIPI IANENT PLIABLE CAULKING	NG THRU ALL WALLS G OR APPROVED PA
B Image: State in the instance of the	R		VALVES SHALL BE INSTALLED WITH STEM AB	OVE CENTERLINE OF PIP	PE.			EXEC	UTION AND TUBING SHALL BE CUT AND FABRI		TO FIELD MEASUREMENTS AND RUN	PROV EXIST	IDE PIPING SLEEVES AT F ING WALLS TO BE SAW CI	LOORS, WALLS & RC UT TO PASS NEW PIF
Image: Solution of the soluti	В		PIPING SYSTEM	BUTTERFLY BALI		VE TYPE GATE	BALANCING LUB. PLUG	MATT	ER AND BURRS BEFORE ERECTION OF	PIPE.	OR SHALL BE CLEANED OF FOREIGN	PIPIN ABOV	G SHALL NOT BE RUN ABC E THE ACCESS SPACE OF	OVE ELECTRICAL SW SUCH EQUIPMENT -
C Software interim int			DOMESTIC WATER SERVICE 2" AND LARGER			D18		ANNU PERM	LAR SPACE AROUND PIPING THRU ALL ANENT PLIABLE CAULKING OR APPRO\	WALLS /ED PA ⁻	SHALL BE SEALED OFF WITH CHING SEALANT.	LAY B	URIED BUILDING DRAINAG	GE PIPING BEGINNING ALIGNMENT INDICA
C D			DOMESTIC WATER (CW, HW, & HWR) 2" AND SMALLER	B11, B	C11, C13		E11	PROV EXIST	IDE PIPING SLEEVES AT FLOORS, WALL ING WALLS TO BE SAW CUT TO PASS N	LS & RC NEW PIF	OFS IN NEW CONSTRUCTION. ING.	OF IN	VERT. ORT PIPING FROM BUILDII	NG STRUCTURE WIT
$ \begin{bmatrix} c \\ c \end{bmatrix} \\ \\ \begin{bmatrix} c \\ c \end{bmatrix} \\ \begin{bmatrix} c \\ c \end{bmatrix} \\ \\ \\ \hline c \end{bmatrix} \\ \begin{bmatrix} c \\ c \end{bmatrix} \\ \\ \\ \hline c \end{bmatrix} \\ \\ \\ \\ \\ \\ \\ \hline c \end{bmatrix} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$			DOMESTIC WATER (CW, HW, & HWR) 2.5" AND LARGER COMPRESSED AIR (150 PSI AND LESS)	B14	C12, C14 C16			PIPIN ABOV	3 SHALL NOT BE RUN ABOVE ELECTRIC E THE ACCESS SPACE OF SUCH EQUIP	CAL SW MENT -	TCHGEAR OR PANELBOARDS, NOR NEC ARTICLE 384.	ATTA SUPP MANU	CHED TO STRUCTURE. HA ORTS. HANGERS SHALL B IFACTURER.	NG PIPING WITH CLE E INSTALLED ON CE
C Image: Source and the second and the se	-		2" AND SMALLER	B15					3 SHALL BE PITCHED FOR DRAINAGE. E OPEN ENDS OF PIPING DURING CON!	STRUCT	ION.	SLOP 1/8" P	E DRAINAGE PIPING AT 1/4 ER FOOT (1%) FOR PIPING	4" PER FOOT (2%) FO 3 3" AND LARGER.
C Image: State			TYPE DESCRIPTION B11 NIBCO T-585-80-LF,	C11 NIBCO T-413-Y	SCRIPTION /-LF,	C14	DESCRIPTION NIBCO F-910-LF	MECH	ANICAL JOINT PIPING SYSTEM SHALL E	BE INST.	ALLED IN ACCORDANCE WITH	VENT	PIPING SHALL BE PITCHE	D FOR DRAINAGE.
C Image: Strategy image: Strateg			150 W.S.P., TWO-PIECE BRONZE BODY, SCREWED ENDS, BRONZE BALL AND BRONZE STEM TEE	125 W.S.P., BR SCREWED EN BRONZE SWIN	RONZE BODY, DS, RENEWABLE		125 W.O.G., IN-LINE SPRING ACTUATED CENTER GUIDED SILENT CHECK, GLOBE STYLE	GAS F	PACTORER'S RECOMMENDATIONS. PRESSURE REGULATORS SHALL BE INS	TALLE	IN ACCORDANCE WITH THE	CLOS		
G Image: Second Sec			BI4 APOLLO 70LF-240.	SEAT RING. NSF 61	33	_	IRON BODY FOR INSTALLATION BETWEEN FLANGES, BRONZE SEAT AND DISC. NSF/ASME 61	DOWI FROM APPR	STREAM OF THE REGULATOR VENT P EACH REGULATOR AND GAS VENTING OVED LOCATION.	e valvi Piping s Devic	ED GAUGE TAPS UPSTREAM AND HALL BE EXTENDED INDIVIDUALLY E TO OUTSIDE THE BUILDING IN AN	MANU	CHANGES IN DIRECTION	FOR SOIL AND WAST
Implicit of the standard of the	C		150 WSP TWO-PIECE, LEAD-FREE BRONZE BODY, 316 STAINUESS STEEL	250 PSI WORK PRESSURE., D	KING WATER DUCTILE IRON BODY	, C16	WATTS SERIES LFWCV, 125 W.S.P. BRONZE BODY,		ORT PIPING FROM BUILDING STRUCTUF CHED TO STRUCTURE. HANG PIPING W	RE WITI	HRODS, ANGLES & CLAMPS VIS HANGER OR ROLLER	USING AND S DIREG	G APPROPRIATE BRANCHE SHORT-SWEEP 1/4 BENDS CTION OF FLOW IS FROM F	ES, BENDS, AND LON MAY BE USED ON VE HORIZONTAL TO VER
			BALL AND STEM, STANDARD PORT, TEFLON SEAT AND SEAL, HANDLE, NSF/ASME 61	FLANGED END STAINLESS ST AND SEAT PIN	DS, RENEWABLE FEEL SWING DISC		SCREWED ENDS, BRONZE SWING DISC, NSF/ASME 61	SUPP MANU	ORTS. HANGERS SHALL BE INSTALLED FACTURER.	ON CEI	ITERS AS RECOMMENDED BY	DO NO AND A	OT ENCLOSE, COVER, OR APPROVED BY AUTHORITII	PUT PIPING INTO OP ES HAVING JURISDIC
			B15 NIBCO T-580-CS-R-66 1500 W.O.G., TWO-PIECE CARBON	NSF/ANSI 61-8		E11	BELL & GOSSETT CB-1LF 400 PSI, BRONZE BODY WITH	CLEA POTA	↓ INTERIOR WATER PIPING AFTER INST BLE WATER TO CLEAR ALL INTERNAL C	ALLATI EBRIS.	ON BY FLUSHING WITH CLEAN	TEST PIPIN	<u>NG</u> G SHALL BE TESTED IN AC	CORDANCE WITH TH
E The second secon			STEEL BODY, SCREWED ENDS, STAINLESS STEEL BALL AND STEM, TFE SEAT AND SEAL,	125 W.S.P., IN- ACTUATED CE SILENT CHECK	-LF, -LINE SPRING ENTER GUIDED K.BRONZE BODY.		BRASS BALL, SCREW CONNECTION, READOUT & DRAIN PORTS, TFE SEATS, CALIBRATED	ALL N CONF PRIOF	EW AND EXISTING DOMESTIC WATER P ORMANCE WITH AWWA C651-86. DOME TO PUTTING SYSTEM IN OPERATION F	PIPING S STIC W BY A CC	HALL BE DISINFECTED IN ATER PIPING SHALL BE SANITIZED MPANY OR PERSONNEL REGULARLY	JURIS	DICTION.	
P 1 2 3 4 5 P 1 2 3 4 5	-		D18 KENNEDY KS-FW 8068A, 200 PSI, NSF 61 EPOXY COATED	SCREWED EN SEAT RING, NS	DS, TFE DISC AND SF/ASME 61		MEMORY STOP, NSF/ASME 61	TESTI	NG STIC WATER PIPING - 125 PSI FOR MIN		RS AT THE LOW POINT IN THE		PIPING SYST	ГЕМ
E Image: https://www.image: https://wwww.image: https://www.image: https://www.image: https://www			CAST IRON BODY, RESILIENT WEDGE, O.S.& Y., FLANGED ENDS					SYSTI COMF	EM. PRESSED AIR PIPING - 200 PSI FOR 6 HC	URS.		SA	NITARY PIPING BELOW FL	OOR SLAB IN GRADE ABOVE THE FLOOR
D Descention			PIPE INSULATION SCHI	EDULE - PLU	MBING				PIPING SYSTEM		ТҮРЕ	= <u>S</u>	TORM DRAINAGE BELOW T STORM DRAINAGE A	THE FLOOR IN SLAB
D Image: Solid base into its we are accounted or solid its solid or information i			GENERAL NOTES:					DOME	STIC COLD, HOT AND RECIRCULATING Y	WATER E	C1, C4, C5 C8, PX1	1	NDIRECT DRAINS/CONDEN 1" & SMALL	ISATE DRAIN LINES ER
E 1 2 3 4 5	D		FIRE, SMOKE RATINGS: FLAME SPREAD RATI	NG OF 25 OR LESS, SMO	KE DEVELOPED RA	TING OF 50 C	R LESS.		COMPRESSED AIR 2.5" & SMALLER		C1, S2, S3	ТҮРЕ	DESCRIPTI	ON TYPE
E Exclude Provide State Sta			GREEN GUARD INDOOR AIR QUALITY CERTIF	IED.				TYPE	DESCRIPTION	TYPE	DESCRIPTION		NO-HUB CAST IRON (ST SERVICE WEIGHT ASTM A888 OR CISPI 30	ГD) С1 1
E Image: Display of the state and wave dependence of the state and wave and state and			EXECUTION INSTALLATION PER MANUFACTURER'S RECO	MMENDATIONS.				C1	SOLDERED COPPER TYPE "L" HARD COPPER	S2	THREADED BLACK STEEL SCHEDULE 40, ASTM A53		SHIELDED COUPLINGS ASTM C1277 OR CISPI 3	10
F NEUL CONTINUES ALT PER LACERTA DUE CONTINUES ALT PER LACERA DUE CONTINUES ALT PER LACERTA DUE CONTINUES ALT PER LA			COLD SERVICE PIPE INSULATION AND VAPOR DEVICES AND PUMP CASINGS.	R BARRIER/JACKET TO B	E CONTINUOUS THF	RU FLOOR AN	ID WALL SLEEVES AT ALL PIPE		WROUGHT COPPER OR CAST BRONZE FITTINGS 95-5 SOLDER		150 LB. C.I. FITTINGS	Cl2	HUB & SPIGOT CAST IR ASTM A74, SERVICE CL	CON C5 ASS
F	-		INSULATION AND VAPOR BARRIER TO BE CO HARDWOOD INSERT SUPPORT FOR PIPES 2.3	NTINUOUS AT PIPE HANC 5" AND LARGER.	GERS AND SUPPOR	TS ON HORIZ	ONTAL PIPING. PROVIDE	C4	GROOVED COPPER TYPE "L" HARD COPPER ASTM B88	S 3	THREADED GALVANIZED STEEL SCHEDULE 40, ASTM A53 TYPE E OR F		RUBBER GASKET ASTM	1 C564
F Image: Normal control water wa			VERTICAL PIPE SUPPORTS SHALL ATTACH D CELL INSULATION, SAME THICKNESS AS SYS	IRECTLY TO PIPE. INSULATION ON CO	ATE SUPPORT AND LD SERVICE PIPES	OTHER SURF TO PREVENT	FACES WITH FLEXIBLE CLOSED CONDENSATION.		COPPER ASTM B75 UNS C12200 FITTINGS VICTAULIC STYLE 607 COUPLING		CLASS 300 FITTINGS W/ PTFE TAPE ASME B16.3	P1	PVC SCHEDULE 40 PVC	C8
E Image: state is a set of the image: state is more state is			INSULATION MAY BE OMITTED ON HOT WATE	R VALVES AND DEVICES	2" AND SMALLER P	IPE SIZE.		C5	PRESS-FIT COPPER TYPE "L" HARD COPPER	PX1	PEX TUBING CROSSLINKED POLYETHYLENE	11	ASTM D2665 AND D2321 DWV FITTINGS, ASTM D GLUED JOINTS	3311
E			THE FIRST 10 FEET OF SECONDARY STORM I	VIPS SHALL BE INSULATE	א ווא סיי אווא סיי אווא סי N SHALL BE INSULAT	SULATION. TED.			ASTM B88 COPPER OR BRONZE FITTINGS ASTM B16 18 OR B16 22		TUBING, SDR 9, ASTM F877 METAL INSERT FITTINGS WITH COPPER OR STEEL CRIMP RING		 :	
F UNMENT 10.00U/VATENT TENEFORM 10.00U/VATENT TENEF	E		SYSTEM & SIZE	INSULATION THICKNE	SS TYPE			C8	250 DEG. F. EPDM SEALS TYPE "K" SOFT COPPER			IN AB	OVE CEILINGS SPACES US PIPING SHALL BE CAST IR RN AIR PI FNUMS LOCATIO	SED AS RETURN AIR RON TYPE C1 OR C2.
F DOMESTIC HOT WATER TEMPERED WATER, NOT WATER RETURN 127 MO SMALLER 1' F1, P1 INTERIOR WATER, SHOT WATER RETURN 127 MO SMALLER 1' F1, P1 INTERIOR WATER, SHOT WATER RETURN 157 MO LAGERR 1' F1, P1 INTERIOR WATER, SHOT WATER RETURN 157 MO LAGERR 1' F1, P1 INTERIOR COMPENSATE DRIVING 157 MO LAGERR 1' F1, P1 INTERIOR COMPENSATE DRIVING 157 MO LAGERR 1' F1, P1 INTERIOR COMPENSATE DRIVING 157 MO LAGERR 1' F1, P1 INTERIOR TYPE BASIS OF DESIGN APPROVED EQUALS DESCRIPTION ***1.28 (100 DFG F ***0.28 (100 DFG F ****0.28 (100 DFG F ****0.28 (100 DFG F ***********************************			DOMESTIC COLD WATER 1.5" & SMALLER DOMESTIC COLD WATER 2" & LARGER	0.5"	F1, P1 F1, P1				ASTM B88 WROUGHT COPPER OR CAST BRONZE FITTINGS			SANIT BE PV	ARY, STORM, AND VENT F	PIPING ABOVE THE F
F DOMESTIC HOT WATER, TEMPERED WATER, A KOT WATER, TEMPERED CONDENSATE DRAINAGE 1.5' F1, P1 INTERIOR F UNATER, A KOT WATER, TEMPERED CONDENSATE DRAINAGE 1'' F1, P1 INTERIOR F TYPE BASIS OF DESIGN APPROVED EQUALS INFORMATION CASS FIRES WATER RESIN BONDING. '' COARD BO			DOMESTIC HOT WATER, TEMPERED WATER, & HOT WATER RETURN 1.25" AND SMALLFR		F1, P1		INTERIOR		90-0 SOLDEK			IRON	ENT THE PASSAGE OF SM SHALL OCCUR WITHIN TH	OKE INTO RÉTURN À E WALL.
F INTERIOR HORIZONTAL ISTORM DRAINAGE 1* F1, P1 INTERIOR INTERIOR CONDENSATE DRAINAGE 1* F1, P1 INTERIOR INTERIOR CONDENSATE DRAINAGE 1* F1, P1 INTERIOR INTERIOR CONDENSATE DRAINAGE 1* F1, P1 INTERIOR INTERIOR INTERIOR INTERIOR INTERIOR INTERIOR INTERIOR INTERIOR INTERIOR INTERIOR INTERIOR DESCRIPTION INTERIOR INTERIOR INTERIOR DESCRIPTION INTERIOR INTERIOR INTERIOR INTERIOR INTERIOR INTERIOR INTERIOR INTE			DOMESTIC HOT WATER, TEMPERED WATER, & HOT WATER RETURN	1.5"	F1, P1		INTERIOR							
F CONDENSATE DRAINAGE 1" F1, P1 INTERIOR TYPE BASIS OF DESIGN APPROVED EQUALS DESCRIPTION TYPE BASIS OF DESIGN APPROVED EQUALS DESCRIPTION Image: State Drainage Image: State Drainage Image: State Drainage Image: State Drainage F1 OWENS-CORNING SSL1-ASJ KNAUF 100F PPEE, MICROLOW PWTH SELF-SEALING ADHESIVE Image: State Drainage F1 OWENS-CORNING SSL1-ASJ Image: State Drainage Image: State Drainage P1 AEROFLEX - AEROCEL EPDM RUBATEX PREFORMED TUBULAR Image: State Drainage Image: State Drainage Image: State Drainage 1 Q Q Q 1 Q Q Q 3 A 4 S Image: State Drainage Image: State Drainage Image: State Drainage Image: State Drainage Image: State Drainage Image: State Drainage Image: State Drainage Image: State Drainage Image: State Drainage Image: State Drainage Image: State Drainage Image: State Drainage Image: State Drainage Image: State Drainage Image: Stat	-		I.3 AND LARGER INTERIOR HORIZONTAL STORM DRAINAGE	1"	F1, P1		INTERIOR	-						
F BASIS OF DESIGN APPROVED EQUALS DESCRIPTION Image: A constraint of the state of the stat			CONDENSATE DRAINAGE	1"	F1, P1		INTERIOR							
F Image: Piter of the second seco			TYPE BASIS OF DESIGN	APPROVED EQUALS				-						
F1 OWENS-CORNING SSL1-ASJ KNAUF 1000* PIPE, JOHNS MANVILE JOHNS MANVILE MICRO-LOK HP *WHITE SRR JACKET. *UNIGTUDINAL LAP WITH SERV. SACRS. ETC., WHITE ONE PIECE, PREMOLDED 25500.20* PVC FITTING COVERS WITH HIGH DESNITY FIBERGLASS SINULATION INSERTS SAME THICKNESS, K=0.26 EQUAL TO ZESTON OR PROTO. P1 AEROFLEX-AEROCEL EPDM RUBATEX *RUBATEX * K=0.25 @ 75 DG. F. *CL25 @ 75 DG. F. 1 2 3 4 5					* K=0.24 @ 100 DE * 3.5 - 5.5 PCF.	G. F.	TH RESIN BONDING.							
P1 AEROFLEX - AEROCEL EPDM RUBATEX * PREFORMED, FLEXIBLE CLOSED CELL EPDM, TUBULAR * K=0.26 @ C5D GEL, EPDM, TUBULATION. 1 2 3 4 5	F		F1 OWENS-CORNING SSL1-ASJ	KNAUF 1000° PIPE, JOHNS MANVILLE MICRO-LOK HP	* PREFORMED TU * WHITE FSRK JAC * LONGITUDINAL L * ELBOWS, TEES, PREMOLDED 25/50 DENSITY FIBERGL	BULAR. CKET. AP WITH SEI VALVES, CAF 0 0.20" PVC F ASS INSULA	LF-SEALING ADHESIVE. PS, ETC., WHITE ONE PIECE, ITTING COVERS WITH HIGH TION INSERTS SAME THICKNESS,							
			P1 AEROFLEX - AEROCEL EPDM	RUBATEX	K=0.26 EQUAL TO * PREFORMED, FL INSULATION, OR S * K=0.25 @ 75 DEG * CLEAN PIPE SUF INSULATING	ZESTON OR EXIBLE CLOS BHEET INSUL 5. F. RFACE WITH	PROTO. SED CELL EPDM, TUBULAR ATION. DENATURED ALCOHOL PRIOR TO	-						
		1	 2	1		3	j I	J	<u>/</u>		1	5		<u> </u>



P1 CI1, CI2 C1, C5, C8 DESCRIPTION

SOLDERED COPPER TYPE "L" HARD COPPER ASTM B88 WROUGHT COPPER OR CAST BRONZE FITTINGS 95-5 SOLDER

PRESS-FIT COPPER TYPE "L" HARD COPPER ASTM B88 COPPER OR BRONZE FITTINGS

ASTM B16.18 OR B16.22 250 DEG. F. EPDM SEALS TYPE "K" SOFT COPPER

ASTM B88 WROUGHT COPPER OR CAST BRONZE FITTINGS

95-5 SOLDER

AIR PLENUMS, SANITARY, STORM, AND C2. COORDINATE WITH H.C. FOR

OOR SLAB AND WITHIN WALLS MAY
ENETRATIONS ARE SEALED TO
R PLENUMS. TRANSITION TO CAST

- SYSTEMS PROVIDED WITH OTHER TRADES AND NEW OR EXISTING CONDITIONS.
- 17. INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
- 18. INSTALL ALL MATERIAL AND EQUIPMENT TO PROVIDE REQUIRED CLEARANCES TO MEET CODE REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS AND MAINTENANCE
- SERVICE. 19. ALL WORK AREAS SHALL BE CLEANED TO MATCH ORIGINAL CONDITION.
- 20. MAINTAIN RECORD DRAWINGS AND PROVIDE TO THE OWNER OR HIS AGENT.
- 21. PROVIDE TWO (2) BOUND, PAPER COPIES OF ALL OPERATING AND MAINTENANCE MANUALS. PROVIDE AN ELECTRONIC COPY OF THE OPERATING AND MAINTENANCE MANUAL.
- 22. PROVIDE WARRANTY FOR ALL WORKMANSHIP, EQUIPMENT AND MATERIAL. WARRANTY SHALL BE 1 YEAR FOR PARTS AND LABOR, PROVIDE EXTENDED WARRANTY PERIOD FOR PARTS AND/OR LABOR AS IDENTIFIED OR AS STANDARD FOR CERTAIN ITEMS OF EQUIPMENT.
- 23. PROVIDE TRAINING AND MAINTENANCE INSTRUCTION FOR SYSTEMS AND EQUIPMENT TO THE OWNER. TRAINING SHALL BE 8 HOURS OF TIME WITH MAXIMUM TRAINING PERIOD OF 4 HOURS.



MATERIAL SCHEDULES

P0.2

SHEET NO.











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GENERAL NOTES - HVAC

- 1. PROVIDE COMPLETE AND FUNCTIONAL HVAC SYSTEMS PER HVAC PLANS INCLUDING FURNISHING, INSTALLING, TESTING AND WARRANTY OF ALL WORK.
- 2. WORK SHALL BE IN ACCORDANCE WITH THE 2024 OHIO BUILDING AND MECHANICAL CODES INCLUDING REFERENCED CODES AND STANDARDS, ALL FEDERAL, STATE, AND LOCAL CODES AND ALL APPLICABLE LAWS, ORDINANCES AND REGULATIONS.
- 3. WORK SHALL BE PERFORMED USING BEST QUALITY INSTALLATION PRACTICE BY A QUALIFIED TRADE CONTRACTOR AND THEIR QUALIFIED SUBCONTRACTORS. ALL CONTRACTORS SHALL BE LICENSED AND BE BONDED FOR THE WORK.
- 4. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA AND OWNER SAFETY STANDARDS AND PRACTICES. ALL ON SITE PERSONNEL SHALL BE SAFETY TRAINED AND OWNER CERTIFIED.
- 5. OBTAIN REQUIRED PERMITS RELATED TO THE WORK AND PAY ALL PERMIT AND INSPECTION FEES.
- 6. THE AUTHORITY HAVING JURISDICTION SHALL INSPECT AND APPROVE ALL WORK. PROVIDE A FINAL CERTIFICATE OF APPROVAL FROM THE AUTHORITY HAVING JURISDICTION AND PRESENT TO THE OWNER BEFORE REQUESTING FINAL PAYMENT AND RELEASE OF RETAINAGE.
- 7. ALL EQUIPMENT AND MATERIAL REQUIRED FOR COMPLETE AND FUNCTIONAL HVAC SYSTEMS ARE INCLUDED IN THE CONTRACT.

GENERAL REQUIREMENTS - HVAC

- 1. PROTECT ALL FURNISHED MATERIAL AND EQUIPMENT FROM THEFT AND DETERIORATION OR CONTAMINATION DUE TO WEATHER OR CONSTRUCTION ACTIVITIES.
- 2. PROTECT OWNERS PROPERTY AND PROPERTY OF OTHER CONTRACTORS.
- 3. REMOVE ALL CONSTRUCTION DEBRIS FROM SITE. RECYCLE DEBRIS WHERE POSSIBLE. DISPOSE OF ALL HAZARDOUS MATERIAL IN ACCORDANCE WITH ENVIRONMENTAL LAWS.
- 4. PROVIDE ALL CUTTING AND PATCHING REQUIRED TO INSTALL MATERIAL AND EQUIPMENT.
- 5. EXISTING ROOF PATCHING SHALL BE SUBCONTRACTED TO A BONDED ROOFING CONTRACTOR FAMILIAR WITH THE ROOFING SYSTEM. MAINTAIN ANY REMAINING ROOF WARRANTY.
- 6. PROVIDE APPROPRIATE FIRESTOPPING SYSTEM FOR ANNULAR SPACE OPENINGS AROUND DUCT AND PIPE PENETRATIONS THROUGH FIRE RESISTANCE RATED CONSTRUCTION. ANNULAR SPACE OPENINGS AT DUCT OR PIPE PENETRATIONS IN NON RATED CONSTRUCTION TO BE CLOSED AIR AND WATER TIGHT.
- 7. MATERIALS AND EQUIPMENT SHALL BE ONE OF THE BRAND OR MANUFACTURERS LISTED OR AN APPROVED EQUAL.
- 8. ELECTRONIC SHOP DRAWINGS SHALL BE PROVIDED IN .PDF FORMAT FOR THE ENGINEER'S APPROVAL FOR ALL MATERIALS AND EQUIPMENT. SHOP DRAWINGS SHALL BE SPECIFICALLY EDITED TO ELIMINATE SUPERFLUOUS INFORMATION AND SHALL CLEARLY SHOW SPECIFICS FOR THE MATERIAL AND EQUIPMENT PROVIDED.
- 9. COORDINATE INSTALLATION OF ACTUAL EQUIPMENT AND SYSTEMS PROVIDED WITH OTHER TRADES AND NEW OR EXISTING CONDITIONS.
- 10. INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS. PROVIDE REQUIRED CLEARANCES TO MEET CODE REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS AND MAINTENANCE SERVICE.
- 11. ALL WORK AREAS SHALL BE CLEANED TO MATCH ORIGINAL CONDITION.
- 12. PROVIDE TESTING, ADJUSTING AND BALANCING (TAB) REPORTS FOR AIR AND WATER SYSTEMS. A CERTIFIED AABC OR NEBB FIRM SHALL PROVIDE THE BALANCE.
- 13. PROVIDE FINAL COORDINATION/INSTALLATION DRAWINGS TO THE OWNER IN BOUND PAPER AS WELL AS ELECTRONIC FORMAT FOR RECORD.
- 14. MAINTAIN RECORD DRAWINGS AND PROVIDE TO THE OWNER OR HIS AGENT.
- 15. PROVIDE TWO (2) BOUND, PAPER COPIES OF ALL OPERATING AND MAINTENANCE MANUALS. PROVIDE AN ELECTRONIC COPY OF THE OPERATING AND MAINTENANCE MANUAL.
- 16. PROVIDE WARRANTY FOR ALL WORKMANSHIP, EQUIPMENT AND MATERIAL. WARRANTY SHALL BE 1 YEAR FOR PART AND LABOR, PROVIDE EXTENDED WARRANTY PERIOD FOR PARTS AND/OR LABOR AS IDENTIFIED OR AS STANDARD FOR CERTAIN ITEMS OF EQUIPMENT.

5 PIPING LEGEND DUCTWORK LEGE INDICATES DIRECTION OF FLOW <a> <a></ RECTANGULAR | FIRST FIGURE IS 20/12 ——CD— CONDENSATE DRAIN CD 10"Ø ROUND DUCT DIAMETER INDIC — L —— **REFRIGERANT - LIQUID** —— S —— **REFRIGERANT - SUCTION** DUCT WITH INTE -----HPG-----REFRIGERANT - HIGH/LOW PRESSURE GAS —— S/L —— **REFRIGERANT - SUCTION & LIQUID, 2 PIPES TOTAL** STAINLESS STEE REFRIGERANT - SUCTION, LIQUID, & HOT GAS —S/L/HG— 3 PIPES TOTAL FLEXIBLE FABRIC 0.375"L REFRIGERANT LINE SET BETWEEN CONDENSING 0.875"S UNIT AND BRANCH SELECTOR BOX. INSULATED FLE> 0.75"HPG 0.375"L = LIQUID PIPE SIZE 0.875"S = SUCTION PIPE SIZE CHANGE OF ELE R 0.75"HPG = HIGH PRESSURE/LOW PRESSURE R = RISE, D = DR GAS SIZE. 0.375"L REFRIGERANT LINE SET BETWEEN BRANCH 0.625"S SELECTOR BOX AND FAN COIL UNIT. ELBOW WITH TU 0.375"L = LIQUID PIPE SIZE 0.625"S = SUCTION PIPE SIZE BRANCH SELECTOR BOX EQUIPMENT SIZE AS DEPICTED ON BRANCH ROUND RUNOUT SELECTOR SCHEDULE DUCT WITH SPIN ROUND RUNOUT MAIN ------CAP _____ CONNECTION, BOTTOM VOLUME DAMPE \leftarrow CONNECTION, TOP FIRE DAMPER < SUPPLY DUCT S CONNECTION, SIDE $\left|\right\rangle$

ELBOW, 90°, LONG RADIUS

ELBOW, 45°, LONG RADIUS

ELBOW, TURNED UP

ELBOW, TURNED DOWN

REDUCER

--

UNION, SCREWED

 $\frac{S1-8"}{300}$

<u>S2-24/12</u> 300-8' 6"

<u>S3-6"</u> 150-2

(E) 120

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	6			7				
)	RK LEGEND	GEN	ERAL	LEGEND				
		EC	;	ELECTRICAL CONTRACTOR.			6 2	
	FIRST FIGURE IS SIDE SHOWN	FC	;	FIRE PROTECTION CONTRACTOR.			4532 2.369	ch.col
		G	2	GENERAL CONTRACTOR.			0hio 7. 8 3:	p-arc
	DIAMETER INDICATED	HC)	HVAC CONTRACTOR.		tive f	ood, F 93	w.ap
				PLUMBING CONTRACTOR.	A	L -	glew 8898	
	DUCT WITH INTERIOR ACOUSTIC LINER	NI	, C	NOT IN CONTRACT.		2	/e, En 836.8	
	STAINLESS STEEL DUCT	AF	F	ABOVE FINISHED FLOOR - TO BOTTOM OF ITEM UNLESS INDICATED OTHERWISE IN DRAWING.		Ā	ide Driv T 937.5	
	FLEXIBLE FABRIC STEEL DUCT	(E)	EXISTING.			spoo	
	INSULATED FLEXIBLE DUCT	ES	3	EQUIPMENT SUPPLIER.		D	515 W	
	CHANGE OF ELEVATION	EN	Λ	EMERGENCY.		D	Ŷ	
	R = RISE, D = DROP	MI	4			4		
	ELBOW WITH TURNING VANES	s w	Þ	WEATHER PROOF				
			` `	NOTE SYMBOL - APPLIES ONLY TO SHEET ON				
	ROUND RUNOUT DUCT TAP TO RECTANGULAR]	WHICH IS SHOWN.			·····	•
	DUCT WITH SPIN-IN FITTING, SEE DETAIL	(2)	ON WHICH IS SHOWN.	В	•	Ser a	D.
	ROUND RUNOUT DUCT FITTING IN ROUND DUCT	H-		EQUIPMENT REFERENCE SYMBOL. ELECTRICAL CONNECTION REQUIRED.			N AN AN	/ .
	WAIN	H	\rightarrow	EQUIPMENT REFERENCE SYMBOL. NO ELECTRICAL CONNECTION REQUIRED.		n n n n n n n n n n n n n n n n n n n	El 11.	
		12	3	ROOM NUMBER.		· · · ·) ⁻	*
		H2	2	DETAIL SYMBOL DETAIL "B" SHOWN ON SHEET H2.			* • • • • * *	
	FIRE DAMPER			SECTION SYMBOL SECTION "A" DESIGNATION, SHOWN ON SHEET H1.				
	SUPPLY DUCT SECTION - RISE, DROP							
	RETURN DUCT SECTION - RISE, DROP			EXTERIOR ELEVATION SYMBOL				
	SUPPLY AIR DEVICE S1		·	ELEVATION "A" DESIGNATION, SHOWN ON SHEET H1				
	8" NECK SIZE 300 = REQUIRED AIR FLOW (CFM)			CONNECTION, NEW TO EXISTING.	C			
	TRANSFER AIR DEVICE		1	UP TO SYMBOL UP TO "FD1", SHOWN ON FLOOR ABOVE.				
	R1 DEVICE TAG, SEE SCHEDULE AND DETAIL RETURN/EXHAUST			1 HOUR FIRE PROTECTION SEE SPECIFICATION FOR PENETRATION DETAILS				
	DEVICE TAG: R=RETURN, E=EXHAUST 300 = REQUIRED AIR FLOW (CFM) DEVICE SIZE AS INDICATED IN AIR DEVICE			2 HOUR FIRE PROTECTION SEE SPECIFICATION FOR PENETRATION DETAILS			Z	
	SCHEDULE SIDEWALL AIR DEVICE			3 HOUR FIRE PROTECTION SEE SPECIFICATION FOR PENETRATION DETAILS			Ĕ	
	SEE AIR DEVICE SCHEDULE 24/12 = DEVICE SIZE			ITEM TO BE REMOVED.			A	
	300 = AIR FLOW (CFM) 8' 6" = MOUNTING HEIGHT (AFF)			EXISTING TO REMAIN.			F	
	LINEAR SLOT PLENUM S3 - DEVICE TAG, SEE AIR DEVICE SCHEDULE 6" = ROUND DUCT CONNECTION SIZE 150 = AIR FLOW (CFM) 2 = NO. OF SLOTS			NEW ITEM.		Z	S U U	
	EXISTING AIR DEVICE					10 T	Ĭ	
	REBALANCE TO AIR FLOW INDICATED	ПV/ SH		DRAWING TITLE		AY	ō	ere
	ROOM CO2 SENSOR	H	D.1 I	LEGENDS & SCHEDULES			٩.	iss h
	(MAY BE IN COMMON HOUSING W/ TEMP.)	H).2 I	MATERIAL SCHEDULES		Ō	3	iddre
		H).3 I	EQUIPMENT SCHEDULES		É	Щ	iter a
		H).4	VRF EQUIPMENT & SEISMIC REQUIREMENTS		0	2	ш
		F	11 5	SD COORDINATION PLAN			ISSUE	
		H	1.1 I	NEW WORK PLANS		NO. DATE	DESCRIF	<u>TION</u>
		F	12 2	ZONING PLAN		08/02/24	100% DD Set	
		H	2.1 \$	SECTIONS & ELEVATIONS				
		H	2.2 \$	SECTIONS				
		H	3.1 [DETAILS	E			
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						CUPYRIGHT©	2024 - App Architectu	າອ, INC.

TITLE

LEGENDS & SCHEDULES

SHEET NO. **H0.1**

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Nauman & Zelinski LLC.

204 S. Ludlow Street Suite 400 Dayton, Ohio 45402

Phone: (937) 223-3821 ~ Fax: (937) 223-3849 PROJECT # 24014

	<u> </u>		חוח			
PIPING SYSTEMS - HV GENERAL NOTES:	AC			ASSURANCE	SCHEDULE	
QUALITY ASSURANCE: PIPING SHALL CONFORM TO OBC REQUIREN PIPING SHALL COMPLY WITH ASME B31.9 "BI	IENTS. JILDING	SERVICES PIPING".	PRODUC - INDOC - OUTDO GREEN G	TS SHALL COMPLY WITH AS DRS - FLAME SPREAD RATIN DORS - FLAME SPREAD RAT GUARD INDOOR AIR QUALITY	TM E84 FIRE, SMOKE RA G OF 25 OR LESS, SMOK ING OF 75 OR LESS, SMO CERTIFIED.	TIN E C OKI
WELDING PROCEDURES & TESTING SHALL (<u>PRODUCTS</u> REINFORCED FORGED WELDING OUTLETS F		WITH ANSI STANDARD B31.1.0.	THICKNE PRODUC	SSES SHALL COMPLY WITH <u>TS</u> MENTS ARE FOR BOTH SUE	MOST CURRENT VERSIC	ON S
THREADOLET MAY BE USED WHERE BRANC DIELECTRIC CONNECTORS SHALL BE PROVI	H IS TWO	O SIZES SMALLER THAN THE MAIN.	MANUFAG	CTURERS: ASS - JOHNS MANVILLE, OW	ENS CORNING, KNAUE, I	U.
MECHANICALLY FORMED TEES AND COUPLI MECHANICALLY FORMED TEES AND COUPLI MECHANICAL JOINT PIPING SYSTEM SHALL F MANUFACTURED RECOMMENDATIONS.	DLING UN NG (T-DF BE INSTA	IITS MAY BE TYPE "C3" PIPING. RILL) ARE NOT PERMITTED LLED IN ACCORDANCE WITH	CALCIUM FLEXIBLE POLYISO REFER TO	SILICATE - PABCO, CALSILI ELASTOMERIC - AEROFLE CYANURATE - ITW O PIPE HANGER DETAIL FOF	TE, JOHNS MANVILLE (IIC (, ARMACELL, RUBATEX REQUIRED HANGER CC	G) DMF
UNIONS: COPPER TUBING - WROUGHT OR CAST COP THREADED STEEL PIPE - MALLEABLE IRON V	PER, CLA V/GROUN	ASS 150, SOLDERED ENDS ND SEAT, 300 LB SCREWED ENDS		<u>ON</u> ATION PER MANUFACTURER	'S RECOMMENDATIONS.	́ст
FLANGES: COPPER TUBING - CLASS 150 CAST COPPER STEEL PIPE - CLASS 150 SLIP-ON OR WELD N	ALLOY, NECK	SOLDERED	PIPE DEV	ON AND VAPOR BARRIER TO	D BE CONTINUOUS AT PI	IPE
GASKETS - 1/16" THICK FULL FACE COMPRES PRESSURE AND TEMPERATURE RANGES OF	SSED SH THE AP	EET GASKET SUITABLE FOR PLICATION	VERTICAL CLOSED CONDEN	L PIPE SUPPORTS SHALL AT CELL INSULATION, SAME TH SATION.	TACH DIRECTLY TO PIPI ICKNESS AS SYSTEM IN	E. I SU
INSTRUMENTATION SECTION SHALL BE FUR AND INSTALLED BY THE PIPING CONTRACTO	SPECIFIE NISHED OR. OTHE	ED IN THE CONTROLS AND BY THE CONTROL SUBCONTRACTOR R TYPES OF CONTROL DEVICES RS FTC) SHALL ALSO BE INSTALLED	EXISTING	B PIPE INSULATION THAT IS I ED PER SCHEDULE FOR THE	DAMAGED, REMOVED OF SYSTEM SERVICE INDI	R N CA ⁻
BY THE PIPING CONTRACTOR. DEVICES, FIT LOCATIONS AND INSTALLATION DETAILS SH CONTROLS SUBCONTRACTOR AND DEVICE	TINGS (T ALL BE C MANUFA	EES, WELDOLETS, THREADOLETS), CLOSELY COORDINATED WITH THE CTURER'S INSTRUCTIONS.	INSULATI REHEAT RELIEF V	ON MAY BE OMITTED ON HO BOXES), HOT WATER PIPINO ALVE PIPING. SEE HEATING	OT WATER VALVES AND I WITHIN UNIT HEATERS COIL PIPING DETAIL.	DE` , EX
AUTOMATIC CONTROL VALVES SHALL BE FU SUBCONTRACTOR FOR INSTALLATION BY TH FITTINGS FOR FLARE FND VALVES SHALL BE	IRNISHEI IE HVAC E PROVIC	D BY THE CONTROLS PIPING CONTRACTOR. FLARE DED BY THE HVAC PIPING		SYSTEM & SIZE	INSULATION THICKNESS	
CONTRACTOR. EXECUTION			R	EFRIGERANT LIQUID	0.75"	
PIPE AND TUBING SHALL BE CUT AND FABRI PARALLEL TO NORMAL BUILDING LINES. PIP MATTER AND BURRS BEFORE ERECTION OF	CATED T E INTERI PIPE.	O FIELD MEASUREMENTS AND RUN OR SHALL BE CLEANED OF FOREIGN	RE COOI	FRIGERANT SUCTION	0.75"	
SUPPORT PIPING FROM BUILDING STRUCTU ATTACHED TO STRUCTURE. HANG PIPING W	RE WITH	I RODS, ANGLES & CLAMPS VIS HANGER OR ROLLER SUPPORTS.	TYPE	BASIS OF DESIGN	APPROVED EQUALS	PF
HANGERS SHALL BE INSTALLED ON CENTER PIPING SHALL BE PITCHED FOR DRAINAGE. 3/4" BALL DRAIN VALVE WITH HOSE THREAD PROVIDE PIPING SLEEVES AT FLOORS, WAL EXISTING WALL TO BE SAW CUT TO PASS NE	es as re The Low Adaptc Ls & Roo Ew Pipin	COMMENDED BY MANUFACTURER. / POINTS SHALL BE FITTED WITH A)R. DFS IN NEW CONSTRUCTION. IG.	F1	OWENS CORNING #ALL SERVICE JACKET	- KNAUF #1000° PIPE, - JOHNS MANVILLE #MICRO-LOK HP	BC K= 3.5 W LC EL
PIPING SHALL NOT BE RUN ABOVE ELECTRIC ABOVE THE ACCESS SPACE OF SUCH EQUIP	CAL SWIT	TCHGEAR OR PANELBOARDS, NOR NEC ARTICLE 384.				DE K=
CLOSE OPEN ENDS OF PIPING THRU ALL PERMANENT PLIABLE CAULKING OR APPRO CLOSE OPEN ENDS OF PIPING DURING CON CLEAN INTERIOR PIPING AFTER INSTALLATIO WATER TO CLEAR ALL INTERNAL DEBRIS.	VED PAT STRUCTI	CHING SEALED OFF WITH CHING SEALANT. ON. USHING WITH CLEAN POTABLE	E1	AEROFLEX #AEROCEL EPDM	- ARMACELL - RUBATEX	FL Tl K= Cl IN
TESTING PIPING SHALL BE AIR TESTED AT 50% HIGHE PRESSURE FOR EIGHT (8) HOURS BEFORE F FUEL OIL PIPING SHALL BE TESTED AT (1.5x) FOR A MINIMUM OF EIGHT (8) HOURS.	R THAN LUSHING DESIGN	MAXIMUM SYSTEM OPERATING G PRESSURE WITH COMPRESSED AIR	E2	ARMACELL	- AEROFLEX	FL IN Cl IN K=
IDENTIFICATION & MARKING PLASTIC SNAP-ON PIPE MARKERS SHALL BE AND DIRECTION OF FLOW.	INSTALI	ED ON PIPING INDICATING SERVICE		#AP ARMAFLEX FS	- RUBATEX	25 PF SE
PIPING SYSTEM COIL CONDENSATE DRAINAGE		C3				E
REFRIGERANT PIPING - CD-1 TO BS-1 REFRIGERANT PIPING - BS-1 TO FAN COIL		C1 C2				
TYPEDESCRIPTIONC1BRAZED COPPER	TYPE C3	DESCRIPTION SOLDERED COPPER				
REFER TO SPECIFICATION 23 2300		TYPE "DWV" HARD COPPER ASTM B88 CAST DWV COPPER FITTINGS 95-5 SOLDER				
C2 BRAZED COPPER REFER TO SPECIFICATION 23 2300						

3		l	4			5	l			
			DUC	FINSULATION S	CHEDULE					
'INGS: E DEVELOPED F KE DEVELOPEI	RATING OF 50 OR LESS. D RATING OF 150 OR LESS		QUALITY A INSULATIC E84. MINIMUM	<u>SSURANCE</u> ON SHALL MEET NFPA 255, 25 F NSULATION THICKNESS SHALL	LAME SPREAD & 50 SMOKE . COMPLY WITH ASHRAE 90	DEVELOPME	ENT, UL 181, NFPA 90A/90B, ASTM 11	36, AND ASTM		
N OF ASHRAE §	90.1.		- PROTEC	<u>S</u> FIVE METAL JACKET COVERS -	0.016" ALUMINUM.					
:. ANSON INSULA)	ATION		 - INSULATION SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. - DUCTWORK SHALL BE SEALED PRIOR TO INSTALLATION OF INSULATION. - ALL EXTERIOR DUCT INSULATION SHALL BE SEALED WATERTIGHT. - REINSULATE DUCTWORK WHERE EXISTING INSULATION IS DAMAGED IN CONNECTION OF NEW DUCTWORK - ALL INSULATION VAPOR BARRIERS SHALL BE MAINTAINED. 							
MPONENTS.			- ADHESIV - REQUIRE - DUCT CC INSULATIC	E SHALL BE APPLIED TO AID IN D INTERNAL DUCT LINING IS IN DILS, REHEAT BOX COILS, CON DN IS INDICATED.	ISTALLATION. IDICATED ON DRAWINGS. L IROL DAMPER, FIRE DAMPE	INED DUCTW ERS & SMOKE	ORK NEED NOT BE FURTHER INSUL DAMPERS SHALL BE INSULATED IF	ATED. SYSTEM		
			- ALL INSU	SYSTEM	INSULATION THICKNESS	TYPE	LOCATION	NOTE		
. INSULATE SUI	NSULATE SUPPORT AND OTHER SURFACES WITH FLEXIBLE LATION ON COLD SERVICE PIPES TO PREVENT			SUPPLY AIR DUCT SUPPLY AIR DUCT	1.5" 2"	1 2	CONCEALED EXPOSED			
NOT PRESENT ATED.	NOT PRESENT WITHIN THE CONSTRUCTION AREA SHALL BE			SUPPLY AIR DUCT SUPPLY AIR DUCT	2" INTEGRAL W/ DUCT	1 3	IN ATTIC EXTERIOR			
EVICES 2" AND SMALLER PIPE SIZE (EXCEPT WITHIN 12" OF AIR EXPOSED COOLING COIL CONDENSATE PIPING AND SAFETY		EPT WITHIN 12" OF AIR PIPING AND SAFETY		OUTDOOR AIR DUCT OUTDOOR AIR DUCT	1.5" 2"	1 2 3	CONCEALED EXPOSED EXTERIOR			
TYPE	LOCAT	ION		RETURN AIR DUCT	-	-				
E1, E2 E1, E2	INTERIOR/E INTERIOR/E	XTERIOR XTERIOR		RETURN AIR DUCT	-	-	EXPOSED			
E1, E2 F1	INTERIOR/E INTER	XTERIOR	EXHA EXHA	UST AIR DUCT & PLENUMS UST AIR DUCT & PLENUMS		-	CONCEALED EXPOSED			
			EXHA	UST AIR DUCT & PLENUMS	-	-	IN ATTIC			
PREFORMED, 1 BONDING. K=0.24 @ 100 D 3.5 - 5.5 PCF. WHITE FSRK JA LONGITUDINAL ELBOWS, TEES PREMOLDED 2 DENSITY FIBEF K=0.26 EQUAL	DEG. F, ACKET. LAP, SELF-SEALING ADHE S, VALVES, CAPS, ETC., WH 5/50 0.20" PVC FITTING COV RGLASS INSULATION INSEF TO ZESTON OR PROTO.	SS FIBER WITH RESIN SIVE. ITE ONE PIECE, /ERS WITH HIGH RTS SAME THICKNESS,	ТҮРЕ	BASIS OF DESIGN OWENS-CORNING SOFTR TYPE 75	APPROVED EQUALS KNAUF JM CERTAIN TEED	MATERIAL FI K = 0.30 @ 75 DENSITY - 0.7 JACKET - FO JOINTS - OVE FASTENERS ADHESIVE - 1 TAPE - 3" WIE	DESCRIPTION BERGLASS DUCT WRAP ON DUCT 5 DEG. F. 75 PCF IL REINFORCED ERLAPPING STAPLE ALL JOINTS AT - MECHANICAL ON 24" & WIDER DU NONE DE	6" CENTERS. CT.		
FLEXIBLE, PRE TUBULAR INSU K=0.25 @ 75 DE CLEAN PIPE SL INSULATING. FLEXIBLE, PRE	-FORMED, CLOSED CELL, E LATION, OR SHEET INSULA EG. F. JRFACE WITH DENATURED -FORMED, CLOSED CELL, E	EPDM ELASTOMERIC ATION. ALCOHOL PRIOR TO ELASTOMERIC TUBULAR	2	OWENS-CORNING TYPE 703	KNAUF JM CERTAIN TEED	MATERIAL FI K = 0.23 @ 75 DENSITY - 3.0 JACKET - AS JOINTS - BUT FASTENERS ADHESIVE - 1 TAPE - 3" WII	BERGLASS BOARD ON DUCT 5 DEG. F. 0 PCF J TT - METAL PINS & CLIPS ON 12" CENT NONE	ERS		
INSULATION. CLEAN PIPE SL INSULATING. K=0.25 @ 75 DE 25/50 FLAME/SI PROVIDE 0.20" SEAM SIDE DO EQUAL TO PAB	JRFACE WITH DENATURED EG. F. MOKE RATING. ROLL ALLOY ALUMINUM EI WN WITH 0.50" WIDE, 0.015 CO-CHILDERS METALS/GE	ALCOHOL PRIOR TO MBOSSED JACKET, "S.S. STRAP AND SEALS RRARD.	3	THERMADUCT	PRO-R DUCT TUFF DUCT	HIGH EFFICIE R = 8.1 WEATHERPF BONDED ALL	CHED ENCY PRE-INSULATED OUTDOOR A ROOF OUTDOOR CLADDING VAPOR JMINUM FOIL WITH ZERO PERMABIL	R DUCTWORK BARRIER; ITY		

1. PROVIDE TWO LAYERS OF FIRE BARRIER WRAP ON ALL INTERIOR TYPE I KITCHEN HOOD GREASE DUCT.

NOTES:

1. PAINT DUCTWORK SYSTEMS ARE TO MATCH BASE MATERIALS EXPOSED INSTALLATIONS.

2. PAINT EXTERIOR DUCTWORK TO MATCH WALL COLOR. COORDINATE REQUIREMENTS WITH G.C.

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PROJECT # 24014

SHEET NO.

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1	2		3	4		5		6	7
	FAN & ROO	OF VENTILATOR SCHEDULE		340		NOUNTING MOUNTING	APPLICATION ACCESSORIES & OPT		PACKAGED ROOFTOP UNITS
	REFER TO SPECIFICA	GREENHECK ATIONS FOR OTHER MANUFACTURERS						α (
		S SHALL BE PROVIDED WITH SHAFT GROUNDING RINGS,	VFD DUTY MOTORS.		L L L		B B CON CON	SH NISH NISH NITCH NICH	SERVICE (
	REFER TO INSTALLAT	TION DETAILS.			WITH BY E.C		E RAT BOVE BOVE BOVE CONSIN IOUSIN TROI	T FINI OR FII TION ONTR ONTR AMPE	DESCRIPTION PAG
				CAPACITY ELECTR		URB OOR DED, I	IREAS MP (A ION PI ON IS(NL CON ROOF ROOF	R COA NNEC -ON/O -ON/O EED C EED C ZED D ZED D	MOUNTING
	TAG SER	RVICE DESCRIPTION	MODEL NUMBER & SIZE (L x W)	G AIRFLOW E.S.P. MOTOR		ELT ELT OOF CL USPEN VSPEN ALL EILING	L 705 G L 864 S IGH TE IBRATI(IBRATI(ISULAT ISULAT ISULAT INGED INGED	OWDEF POXY II DC COI ANUAL ANUAL IAL SPI IAL SPI IAL SPI OT COI OT ES	EVAPORATOR FAN AIRFLOW (CFM)
	EF-1 VEHIC	CLE BAY INLINE CENTRIFUGAL	SQ-100-VG -	550 0.25" 1/4				$\begin{array}{c c c c c c c c c c c c c c c c c c c $	ESP. (" W.G.)
	EF-2 GENERAL	L EXHAUST INLINE CENTRIFUGAL	SQ-120-VG -	1,050 1" 1/2	120 / 1			● ● 1 1	FAN TYPE D
	EF-3 STORM S	SHELTER BATHROOM EXHAUST FAN	SP-A390-VG -	75 0.5" 1.9 MCA / 15 MOCP	120 / 1				VARIABLE FREQUENCY DRIVE
	NOTES:								PRE-FILTER
	1. REFER TO HOA CO	ONTROLLER DIAGRAM.							FINAL FILTER
			ELECTRIC UNI	T HEATER SCHEDULE					AIR SOURCE HEAT PUMP COOLING - BASED ON 90/74 (DB/WB) O.A.
			GENERAL NOTES						TOTAL (MBH)
							AIR FLOW DIMENSION	IS VOLTAGE /	SENSIBLE (MBH)
			UNIT NO. DESCRIP	TION MANUFACTURER / MODI	L MOUNTING	KW MBH	(CFM) L (IN.) D (IN.)	H (IN.) PHASE NOTES	SUPPLY AIR (DB/WB)
			EUH-1 DOWNFLOW UN	NIT HEATER RAYWALL #H3H2605CA	CEILING SUSPENDED	D 5 17	490 20-1/2" 20-1/2"	15" 460 / 3 1, 2	EER
			EUH-2 WALL MOUNTED	UNIT HEATER RAYWALL #AFA115D	WALL RECESSED	1.5 5.1	175 14-1/8" 4"	19-1/2" 120 / 1 2	HOT GAS REHEAT
					I	I	1 1	· · · · · · · · · · · · · · · · · · ·	TOTAL (MBH)
			2. DISCONNECT SWITCH WITH	1 UNIT.					LEAV. AIR (DB)
		HVLS FAN SCHEDULE			AIR DEVICE S	SCHEDULE			AIR SOURCE HEAT PUMP HEATING (PRIMARY HEATING SO
		GENERAL NOTES BASIS OF DESIGN: BIG ASS FANS			GENERAL NOTES AIR DEVICES BASED ON P	RICE.	STANDARD WHITE	E BAKED ACRYLIC FINISH UNLESS	CAPACITY (MBH)
		REFER TO SPECIFICATION FOR EQUAL.			EQUAL BY TITUS, TUTTLE	& BAILEY	NOTED OTHERWIS	SE. L BE 4-WAY THROW UNLESS	ENTER. AIR (DB)
		TAG DESCRIPTION / MODEL #	BLADE DIA. MOTOR WATTS	ELECTRIC NOTES	BALANCING DAMPER GEN	IERALLY PROVIDED IN DUCT,	NOT AT DEVICE. OTHERWISE NOTE VERIFY CEILING T	ED OR INDICATED ON DRAWINGS. YPE AND PROVIDE APPROPRIATE	SUPPLY AIR (DB)
							MOUNTING FRAME	E WHERE REQUIRED.	
		CF-1 LIGHT COMMERCIAL FAN / MK-I61-05-18-06-A728-I24-V54	60" 35.4	120V / 1PH 1, 2, 3, 4	TAG	DESCRIPTION	MODEL NO. MATERIAL	ACCESSORIES NOTES	CAPACITY (kW)
		CE-2 RESIDENTIAL FAN - LOW PROFILE /	52" 20.1	120V / 1PH 3, 5	S1 & S1A 2'X2' SQUARE ROUND DUCT	PLAQUE DIFFUSER CONNECTION	SPD (ASPD) STEEL (A) = ALUMINUM	INSULATED BACKPAN (STYLE 31)	ENTER. AIR DB
		MK-HK4-04-2400-G10			12"\\12"\\20\\AE				SUPPLY AIR TEMP WITH PRIMARY HEATING (DB)
		<u>NOTES:</u> 1. 24" MOUNTING POLE.			S2 & S2A ROUND DUCT	CONNECTION	SPD (ASPD) (ASPD) (A) = ALUMINUM	(STYLE 31)	SUPPLY AIR TEMP WITHOUT PRIMARY HEATING
		 0-10V CONTROL SIGNAL. EIXED WALL MOUNTED CONTROL 			SPIRAL DUCT S3 DOUBLE DEFL	GRILLE ECTION W/ SHORT BLADES	SDGE STEEL	AIR SCOUP	МСА
		4. FINISH COLOR SELECTION BY ARCH	IITECT.		33 FRONT 3/4" BLADE SP	ACING	SDGE STEEL	BALANCING DAMPER	МОСР
		5. AIRFOIL AND HARDWARE FINISH SE	LECTED BY ARCHITECT.		LINEAR SLOT (2) 1" SLOTS	TYPE WITH PLENUM	TBD2 STEFI	EXTERNAL INSULATED	VOLTAGE/HZ/PHASE
					ROUND DUCT	CONNECTION		PLENUM	LENGTH (IN.)
					RETURN GRILI	LE			WIDTH (IN.)
					R1 DEVICE SIZE - 45° HORIZONT	24" X 24" AL BLADES 1/2" SPACING	635 ALUMINUM		HEIGHT (IN.)
					RETURN GRILI DEVICE SIZE - R2	LE 24" X 12" AL PLADES 1/2" SPACING	635 ALUMINUM		MAX UNIT OP. WEIGHT (LBS)
					BLADES PARA	ALLEL TO LONG DIMENSION	15		ECONOMIZER HOOD
					R3 MOUNTING HE	INDICATED ON PLAN	635 ALUMINUM		MIN. O.A. HOOD
					45° HORIZONT HORIZONTAL E	AL BLADES 1/2" SPACING BLADES			CONSTANT AIR VOLUME
					RETURN GRILI	LE			VARIABLE AIR VOLUME
					E1 DEVICE SIZE - 45° HORIZONT BI ADES PARA	24" X 12" AL BLADES 1/2" SPACING LLEL TO LONG DIMENSION	635 ALUMINUM	1	DIGITAL SCROLL COMPRESSORS
					EXHAUST GRI				INVERTER DUTY COMPRESSOR
					45° HORIZONT	AL BLADES 1/2" SPACING	งงจ ALUMINUM		STAINLESS STEEL HEAT EXCHANGER
					NOTES: 1 DEVICE TO BE	SURFACE MOUNTED IN CEN	ITER OF ACOUSTIC CEILING PAD FOR LAY		DDC CONTROL
									DISCONNECT SWITCH
					LOUVER SCH	IEDULE			NOTES:
					<u>GENERAL NOTES</u> BASIS OF DESIGN: GREEN	IHECK			1. COOLING COIL CONDENSATE TRAP PER DETAIL _, SHEE
					EQUAL BY: POTTORFF, RU				
					MAXIMUM 500 FPM ON INT MINIMUM 50% FREE AREA	AKE LOUVERS			
					PRIME COAT PAINT COLOR	R. FINAL COLOR SELECTION	BY ARCHITECT, PAINTED BY G.C.		
					TAG	DESCRIPTION	MODEL NO. MATERIAL	ACCESSORIES NOTES	
					FIXED BLADE L DEVICE SIZE -	LOUVER 20"x20" LOUVER			
					FRAME SIZE - 6 MIN. 50% FREE	6" FRAME E AREA			
					FIXED BLADE L DEVICE SIZE -	LOUVER 20"x20" LOUVER	ESD-635 ALUMINUM	BLACK BIRDSCREEN	
					FRAME SIZE - 6 MIN. 50% FREE	o" FRAME E AREA			
					FIXED BLADE L DEVICE SIZE -	_OUVER 36"x18" LOUVER			
					FRAME SIZE - 6 MIN. 50% FREE	6" FRAME E AREA			
					NOTES: 1. DEVICE TO BE		TER OF ACOUSTIC CEILING PAD FOR LAY.	-IN APPLICATION.	
									Nauman & Zelinski
									204 S. Ludlow Street Suite 400 Dayton, Ohio Phone: (937) 223-3821 ~ Fax: (937) 223-3849 PDO JECT # 2404.4
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SEISMIC GENERAL REQUIREMENTS

- 1. THE PROJECT HAS SEISMIC LOAD SUPPORT REQUIREMENTS BASED ON THE SEISMIC USE GROUP (OCCUPANCY) DESIGNATION OF THE FACILITY OF "IV" AND SEISMIC DESIGN CATEGORY "C". REFER TO DRAWING S0.01 FOR ADDITIONAL INFORMATION.
- SEISMIC DESIGN REQUIREMENTS FOR MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE PROVIDED AS REQUIRED BY 2024 OHIO BUILDING CODE CHAPTER 16, SECTION 1613 EARTHQUAKE LOADS AND BY REFERENCE, THE AMERICAN SOCIETY OF STRUCTURAL ENGINEERS (ASCE) STANDARD 7-16 "MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES" (2016).
- CHAPTER 13 OF ASCE 7-16 DEFINES THE REQUIREMENTS FOR THE MECHANICAL AND ELECTRICAL COMPONENTS.
- 4. THE COMPONENT IMPORTANCE FACTOR, Ip SHALL BE 1.5 FOR ALL COMPONENTS PER ASCE 7-16, 13.1.3 SINCE THE COMPONENTS ARE REQUIRED TO FUNCTION FOR LIFE SAFETY PURPOSES AFTER AN EARTHQUAKE AS WELL AS THE COMPONENTS ARE ALL LOCATED WITHIN AN OCCUPANCY CATEGORY "IV" STRUCTURE.
- ASCE 7-16, TABLE 13.6-1 DEFINES THE SEISMIC AMPLIFICATION FACTOR Ap AND RESPONSE FACTOR Rp FOR EACH COMPONENT THAT SHALL BE USED IN DETERMINING THE ATTACHMENT REQUIREMENTS.
- CERTAIN COMPONENTS TO BE SEISMICALLY BRACED AND SUPPORTED ARE TO ALSO INCLUDE VIBRATION ISOLATION WHERE INDICATED.
- COMPONENTS OR SYSTEMS CAN BE INSTALLED IN A MANNER TO REDUCE SEISMIC BRACING OR SUPPORT REQUIREMENTS. ALL MECHANICAL AND ELECTRICAL SYSTEMS MUST FUNCTION AFTER AN EARTHQUAKE. EQUIPMENT, COMPONENTS, PIPING, DUCTWORK, CONDUIT, COMMUNICATION CABLING, ETC. SHALL BE SEISMICALLY BRACED. GENERAL GUIDELINES OR APPROACH FOR PROJECT SYSTEMS:
- A. DUCTWORK IS DESIGNED TO BE LESS THAN 6 SQ. FT., NO SEISMIC BRACING.
- PIPING SHOULD BE HUNG TIGHT TO STRUCTURE WITH THREADED ROD LESS THAN 12", NO SEISMIC BRACING IF INSTALLED IN THIS MANNER.
- C. FLOOR OR GRADE SET EQUIPMENT, TO BE ANCHORED TO EQUIPMENT PAD AND IN TURN SECURED TO THE FLOOR.
- D. FIRE SUPPRESSION PIPING SHALL BE SEISMIC BRACED PER THE REQUIREMENTS OF NFPA 13.
- FLOOR/WALL MOUNTED ELECTRICAL EQUIPMENT, PANELBOARDS, AUTOMATIC TRANSFER SWITCHES, ETC. SHALL BE SEISMICALLY BRACED/SUPPORTED.
- LIGHTING FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF SUSPENDED CEILING SYSTEMS.
- G. CEILING FANS SHALL BE SEISMICALLY BRACED/SUPPORTED.
- H. CONDUITS 2.5" AND LARGER SHALL BE SEISMICALLY BRACED/SUPPORTED.

ELECTRIC HEATING COIL	REFRIC	GERANT PING	EL	ECTRIC	AL	CABIN		ISIONS			NOTES
kW	GAS LIQU		V/PH	МСА	МОСР	WIDTH	DEPTH	HEIGHT	(LBS)	MODEL NO.	NOTES
2.3	1/2	1/4	208 / 1	3	15	17	21-5/8	50-1/4	113	TPVFYP018AM141A	1, 2, 4
2.3	5/8	3/8	208 / 1	3	15	17	21-5/8	50-1/4	113	TPVFYP024AM141A	1, 2, 4
6	5 / 8	3 / 8	208 / 1	3	15	21	21-5/8	54-1/4	141	TPVFYP036AM141A	1, 2, 4
3.8	5/8	3 / 8	208 / 1	3	15	21	21-5/8	54-1/4	141	TPVFYP030AM141A	1, 2, 4
3.8	1/2	1/4	208 / 1	3	15	17	21-5/8	50-1/4	113	TPVFYP018AM141A	1, 2, 4
10	5/8	3/8	208 / 1	3	15	21	21-5/8	54-1/4	141	TPVFYP036AM141A	1, 2, 4
10	5/8	3/8	208 / 1	3	15	21	21-5/8	54-1/4	141	TPVFYP036AM141A	1, 2, 4
8	5/8	3/8	208 / 1	3	15	17	21-5/8	50-1/4	113	TPVFYP024AM141A	1, 2, 4
-	1/2	3/8	208 / 1	0.3	15	22-7/16	22-7/16	8-3/16	36	TPLFYP012FM140A	1, 2, 3, 4
-	1/2	3/8	208 / 1	0.3	15	22-7/16	22-7/16	8-3/16	36	TPLFYP008FM140A	1, 2, 3, 4
-	1/2	3/8	208 / 1	0.3	15	22-7/16	22-7/16	8-3/16	36	TPLFYP008FM140A	1, 2, 3, 4

GERANT		E		AL.	ſ	DIMENSIONS	3			NOTES	
Y .BS)	ADDITIONAL CHARGE (LBS)	V/PH	MCA	MOCP	WIDTH	DEPTH	HEIGHT	(LBS)	MODEL NO.	NOTES	
	35	460 / 3	35 / 50	35 / 50	99-11/16	29-3/8	71-5/8	1,394	TURYH2404BN40AN	1, 2, 3	

ELECTRICAL CABINET DIMENSIONS COOLING UNIT # OF CAPACITY WEIGHT MODEL NO. NOTES CIRCUITS WIDTH DEPTH HEIGHT V/PH MCA MOCP (MBH) (LBS) 208 / 1 1.2 20 44-11/16 21-1/2 9-7/8 133 TCMBM1012JA11N4 12 250

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					Building: System Tag/Name: Operating Condition Description: Units (collect from pull down list)	Third St. Police Station DOAS-1 24/7/365										
					Inputs (select from pull-down list) Inputs for System Floor area served by system Population of area served by system Design primary supply fan airflow rate	Ware Units System Diversity W// As sf 9,214 S	diversity ystem 35 7.915									
					OA req'd per unit area for system (Weighted average) OA req'd per person for system area (Weighted average) Percent increase in Vbz over minimum required Inputs for Potentially Critical zones	Vpsd cfm/sf 100% Ras cfm/sf 0.05 Rps cfm/p 5.9 0% 0%	GEAP PAGS			PECEPTION						Potentially Critic
А					Zone Name Zone Tag	Zone title turns purple italic for critical zone(s)			SE/ TRAINING ROOM	103 Recention Re	104 105		107 Office space Co	108 109	DOR 110 110 1075 Restroom	
					Occupancy Category Floor Area of zone Design population of zone	Select from pull-down list: Az sf Pz P (default value listed: may be overridden)		156	210 551	areas	69 0	102 103 0.51 0.515	108 0.54	eeting 338	1,381	assembly cl
					Design total supply to zone (primary plus local recirculated) Induction Terminal Unit, Dual Fan Dual Duct or Transfer Fan? Frac. of local recirc. air that is representative of system RA Inputs for Operating Condition Analyzed Percent of total design airflow rate at conditioned analyzed	Vdzd ofm Select from pull-down list or leave blank if N/A: Er	135 0.50 100% 100%	250 0.50	85 600 0.50 0.50 100% 100%	100 0.50 100%	0	100 100 0.50 0.50 00% 100%	100 0.50	300 0.50	300 0.50 0. 100% 100	0 500 500 50 0.50
_					Air distribution type at conditioned analyzed Zone air distribution effectiveness at conditioned analyzed Primary air fraction of supply air at conditioned analyzed Results System Ventilation Efficiency	Select from pull-down list: Ez Ep	0.68	CSCRH 0.80	CSCRH CSCRH 0.80 0.80	CSCRH 0.80	CSCRH CS 0.80	CRH CSCRH 0.80 0.80	CSCRH 0.80	CSCRH C 0.80	SCRH CSCF 0.80 0.	RH CSCRH .80 0.80
					Outdoor air intake required for system Outdoor air per unit floor area Outdoor air per person served by system (including diversity) Outdoor air as a % of design primary supply air	Vot cfm Vot/As cfm/sf Vot/Ps cfm/p Ypd %	941 0.10 26.8 12%									
					Detailed Calculations Initial Calculations for the System as a whole System primary supply air flow at conditioned analyzed Uncorrected OA intake flow req'd for system Uncorrected OA req'd as a fraction of primary SA	Vps cfm = Vpsd Ds = Vou cfm = Rps Ps + Ras As = Xs = Vou / Vps =	7915 644 0.08									
					Initial Calculations for individual zones Area outdoor air rate People outdoor air rate Total supply air to zone (at condition being analyzed) Primary airflow to zone (at condition being analyzed)	Ra cfm/sf Rp cfm/p Vdz cfm Vdzd Ds Vpz cfm = Vdz Ep =	0.00 0.00 135 135	0.06 0.00 250 250	0.06 0.06 0.00 5.00 85 600 85 600	0.06 5.00 100 100	0.00 0.00 0	0.06 0.06 5.00 5.00 100 100 100 100	0.06 5.00 100 100	0.06 5.00 300 300	0.06 0. 0.00 0. 300 300	.00 0.06 .00 5.00 0 500 0 500
В					Breathing zone outdoor airflow Zone outdoor airflow Fraction of zone supply not directly recirc. from zone Fraction of zone supply from fully mixed primary air Fraction of zone OA not directly recirc. from zone	$\begin{array}{rcl} Vbz & cfm &= Rp Pz + Ra Az &= \\ Voz & cfm &= Vbz / Ez &= \\ Fa &= Ep + (1-Ep) Er &= \\ Fb &= Ep &= \\ Fc &= 1-(1-Ez)(1-Ep)(1-Er) &= \end{array}$	0 0 1.00 1.00 1.00	9 12 1.00 1.00 1.00	13 118 16 148 1.00 1.00 1.00 1.00 1.00 1.00	12 15 1.00 1.00 1.00	0 0 1.00 1.00 1.00	9 9 11 11 1.00 1.00 1.00 1.00 1.00 1.00	9 11 1.00 1.00 1.00	80 100 1.00 1.00 1.00	83 104 1.00 1. 1.00 1. 1.00 1.	0 159 0 198 .00 1.00 .00 1.00 .00 1.00
					OA fraction required in the supply air to the zone OA fraction required in the primary air to the zone System Ventilation Efficiency Zone Ventilation Efficiency (App A Method) System Ventilation Efficiency (App A Method)	Zd = Voz/Vdz = $Zpz = Voz/Vpz =$ $Evz = (Fa+FbXs-FcZpzEp)/Fa =$ $Ev = min (Evz) =$	0.00 0.00 1.08	0.05 0.05 1.03	0.19 0.25 0.19 0.25 0.90 0.84	0.15 0.15 0.94	0.00 0.00 1.08	0.11 0.11 0.11 0.11 0.97 0.97	0.11 0.11 0.97	0.33 0.33 0.75	0.35 0. 0.35 0. 0.74 1.	.00 0.40 .00 0.40 .08 0.68
					Minimum outdoor air intake airflow Outdoor Air Intake Flow required to System OA intake req'd as a fraction of primary SA Outdoor Air Intake Flow required to System (Table 6.3 Method OA intake req'd as a fraction of primary SA (Table 6.3 Method	Vot cfm = Vou / Ev = Y = Vot / Vps = Vot cfm = Vou / Ev = Vot cfm = Vou / Ev =	941 0.12 855 85.73									
_					OA Temp at which Min OA provides all cooling OAT below which OA Intake flow is @ minimum	Deg F = {(Tp-dTsf)-(1-Y)*(Tr+dTrf)}/Y =	-71									
					OMC CHAPTER 4: 941 CFM											
					TOTAL OUTDOOR AIR FLOW RATE: 1,200 (• PROVIDED BY DOAS-1	BAY): 1,125 CFM CFM										
C					BALANCING DAMPER SETPOINTS: FC-1: 198											
Ŭ					FC-2: 148 FC-3: 166 FC-4: 82 FC-5: 98											
					FC-6A: 150 FC-6B: 150 FC-7: 82 FC-8: NOT REQ											
					FC-9: 31 FC-10: NOT REQ.											
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	1	I	2	I	3	I	4			I		5)			

	1	2	
		ELECTRICAL SPECIFICATIONS	ELEC
		AA. LABEL ALL NORMAL POWER PANELBOARDS WITH PHENOLIC WHITE BACKGROUND AND BLACK LETTER PLATE WITH SOURCE OF FEEDER, SWITCH OR BREAKER NUMBER, VOLTAGE, PHASE, AND BRANCH. EMERGENCY POWERED ITEMS SHALL BE MARKED THE SAME WAY BUT SHALL BE WITH RED BACKGROUND AND WHITE LETTERS	A. ALL EL CONFO ELECT B. ALL EL COMM
A		AB. LABEL ALL NORMAL POWER DISCONNECT SWITCHES WITH PHENOLIC WHITE BACKGROUND AND BLACK LETTER PLATE WITH PANEL, CIRCUIT NUMBER, VOLTAGE, PHASE, FED FROM AND DESCRIPTION OF LOAD FED. EMERGENCY POWERED ITEMS SHALL BE MARKED THE SAME WAY BUT SHALL BE WITH RED BACKGROUND AND WHITE LETTERS	C. SUBMI APPRO EQUIP BREAK
		AC. ALL OPEN CABLING SHALL BE PLENUM RATED AND INSTALLED ON J-HOOK SYSTEM ABOVE ACCESSIBLE CEILINGS. COORDINATE LOCATIONS AND TYPE/SIZE WITH THE SYSTEMS VENDOR FOR OPTIMUM CABLE ROUTING.	D. ALL PC CONDU E. STAGO ON OP SOUND
_		 AD. DISCONNECT SWITCHES SHALL BE HEAVY DUTY; FUSIBLE TYPE TO UTILIZE 'RK1' FUSES. AE. LIGHTING CONTROL OCCUPANCY SENSORS SHALL BE BY HUBBELL LEVITON, COOPER CONTROLS OR SENSOR SWITCH 	F. DRAWI REQUI POWEI DEVICI
		CEILING MOUNTED SENSORS SHALL BE LOW PROFILE, "DOME" TYPE SENSORS. AF. EQUIPMENT, DUCTWORK AND PIPING SHALL NOT BE INSTALLED IN	LOCAT ALARM FIXED OBSTR
В		SPACE REQUIRED AROUND ELECTRICAL SPACE ABOVE OR IN THE WORKING SPACE REQUIRED AROUND ELECTRICAL SWITCHGEAR, MOTOR CONTROL CENTERS OR PANELBOARDS AS IDENTIFIED BY NEC 110.26 SPACES ABOUT ELECTRICAL EQUIPMENT – 600 VOLTS NOMINAL OR LESS.FOR EQUIPMENT RATED OVER 600 VOLTS NOMINAL – 110.32 WORK SPACE ABOUT EQUIPMENT – 110.33 ENTRANCE AND ACCESS TO WORK SPACE – 110.34 WORK SPACE	G. THE AF ADJUS
		AND GROUNDING. THE ELECTRICAL CONTRACTOR SHALL CAUTION OTHER TRADES TO COMPLY WITH THIS STIPULATION. AG. EXISTING CONDUITS AND WIRING NOT TO BE REUSED, SHALL BE	DESIR/ PRESE SUCH SUFFIC
		REMOVED BACK TO SOURCE. REMOVE ALL UNUSED ELECTRICAL WORK, EQUIPMENT, WIRING AND CONDUITS, ETC. IN AREA OF WORK. DO NOT ABANDON IN PLACE UNLESS INACCESSIBLE. DISPOSE OF ALL REMOVED ITEMS EXCEPT WHERE OWNER WISHES TO KEEP THE ITEM.	OR UN WITH A DIFFIC RUNS A CONTF
		AH. PERFORM ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF ELECTRICAL SYSTEMS. PATCHING SHALL BE CONSISTENT WITH ADJACENT SURFACES.	ARCHI ARRAN WIREW
		AI. PROVIDE ONE YEAR COMPLETE WARRANTY (PARTS, MATERIALS, LABOR). START OF WARRANTY FROM DATE OF BENEFICIAL OCCUPANCY AGREED TO IN WRITING.	H. ALL WI THHN/ SUITAE RADIAI
С			I. PROVI CIRCU GROUN NEUTR
			J. ALL CO CONDU BRANC
			FINAL FLEXIE CONNE EXTER
_			K. EMT CO SETSC L. ALL CO RIGID
			M. BRANC
D			N. ALL EN
			CABILI MONIT NYLON O. ALL EM
			P. WIRING WITH E COOPE
_			Q. ALL CO SUPPO
			R. IDENTI COVEF CLEAR
F			S. PROVII AND R UPDAT DIREC
Е			T. ALL SP U. THE TO NOT EX
			U. THE EL WITH C
_			W. THE E. THRU I LISTED
			UTILIZI X. IDENTI NEATL COVEF
			Y. NEATL CONDU
F			Z. NEATL ACCES PULLB
	1	2	

TRICAL SPECIFICATIONS

ECTRICAL WIRING. EQUIPMENT AND INSTALLATION SHALL ORM TO THE 2024 OHIO BUILDING CODE, 2023 NATIONAL FRIC CODE AND LOCAL CODES, LATEST ADOPTED EDITIONS.

LECTRICAL EQUIPMENT SHALL BE U.L. APPROVED AND IERCIAL GRADE. PANELBOARDS, CIRCUIT BREAKERS AND NNECTS BY SQUARE D, SIEMENS, CUTLER-HAMMER OR G.E

IT ELECTRONIC SHOP DRAWINGS FOR REVIEW AND OVAL PRIOR TO ORDERING FOR THE FOLLOWING MENT: LIGHT FIXTURES, PANELBOARD(S), CIRCUIT KER(S) AND WIRING DEVICES.

OWER AND SYSTEMS WIRING SHALL BE INSTALLED IN UIT RACEWAYS UNLESS OTHERWISE SPECIFICALLY NOTED.

GER LOCATIONS OF RECESSED OUTLETS WHERE SHOWN POSITE SIDES OF STUD WALL PARTITIONS TO PREVENT D TRANSMISSION BETWEEN ROOMS.

INGS ARE SCHEMATIC IN NATURE TO REPRESENT IRED EQUIPMENT/DEVICES AND ASSOCIATED R/CIRCUITRY. DRAWINGS SHALL NOT BE SCALED FOR E LOCATIONS. THE E.C. SHALL COORDINATE THE FINAL TIONS OF ALL FLUSH MOUNTED DEVICES (INCLUDING FIRE AND TECHNOLOGY ROUGH-IN BOXES) WITH CASEWORK. FURNITURE, ETC. TO AVOID CONFLICTS AND VIEWING RUCTIONS. RECEPTACLES ASSOCIATED WITH/ADJACENT TO NOLOGY OUTLET BOXES SHALL BE LOCATED AT THE SAME TING HEIGHT AND WITHIN 6" HORIZONTALLY UNLESS FICALLY NOTED OTHERWISE.

RCHITECT SHALL RESERVE THE RIGHT TO MAKE MINOR STMENT IN LOCATIONS OF SYSTEM RUNS AND ONENTS WHERE THEY CONSIDER SUCH ADJUSTMENTS ABLE IN THE INTEREST OF CONCEALING WORK OR ENTING A BETTER APPEARANCE WHERE EXPOSED. ANY CHANGES SHALL BE ANTICIPATED AND REQUESTED CIENTLY IN ADVANCE SO AS TO NOT CAUSE EXTRA WORK, IDULY DELAY THE WORK. COORDINATE WORK IN ADVANCE ALL OTHER TRADES AND REPORT IMMEDIATELY ANY CULTIES WHICH CAN BE ANTICIPATED. WHERE ANY SYSTEM AND COMPONENTS ARE SO PLACED AS TO CAUSE OR RIBUTE TO A CONFLICT, IT SHALL BE READJUSTED AT THE NSE OF THE CONTRACTOR CAUSING SUCH CONFLICT. THE ITECT'S DECISION SHALL BE FINAL IN REGARD TO NGEMENT OF EQUIPMENT, CONDUIT(S), DEVICES, NAYS ETC., WHERE CONFLICT ARISES.

IRING SHALL UTILIZE MIN. #12 AWG SIZE COPPER THWN STRANDED CONDUCTORS WITH INSULATION BLE FOR THE APPLICATION. CONDUCTORS FOR ELECTRIC NT HEATERS SHALL BE LISTED FOR THE APPLICATION.

IDE A SEPARATE NEUTRAL CONDUCTOR FOR EACH BRANCH JIT AND SEPARATE GREEN COLORED INSULATED COPPER NDING CONDUCTOR FOR EACH BRANCH CIRCUIT CONDUIT. RAL WIRES FOR 120 VOLT CIRCUITS SHALL BE WHITE AND 77 VOLT CIRCUITS SHALL BE GRAY COLOR.

ONDUCTORS SHALL BE INSTALLED IN MIN. 0.75" SIZE UIT. EMT SHALL BE UTILIZED FOR INTERIOR FEEDERS AND CH CIRCUITRY. MC CABLE SHALL ONLY BE ALLOWED FOR CONNECTION TO INDOOR LIGHT FIXTURES. LIQUID TIGHT BLE METAL CONDUIT SHALL BE USED FOR ALL OTHER FINAL ECTIONS TO MOVEABLE/VIBRATING EQUIPMENT. ALL RIOR CONDUIT SHALL BE RIGID METAL CONDUIT.

CONDUIT FITTINGS SHALL BE ALL STEEL COMPRESSION OR CREW TYPE.

ONDUITS INSTALLED ON EXTERIOR OF BUILDING SHALL BE GALVANIZED TYPE WITH THREADED STEEL FITTINGS. E COMPATIBLE NEMA 3R TYPE BOXES FOR ALL EXTERIOR RE AND OUTLET BOXES.

CH CIRCUITS WHERE FISHED IN EXISTING INACCESSIBLE S ONLY MAY UTILIZE MC CABLE OR 0.5" SIZE FLEXIBLE LLIC CONDUIT TO INDIVIDUAL DEVICES WHEN PROPERLY ORTED.

MPTY CONDUITS INSTALLED FOR ANY LOW VOLTAGE ING USES INCLUDING VOICE/DATA, SECURITY, AV. FORING OR ANY OTHER LOW VOLTAGE SYSTEM SHALL HAVE BUSHINGS INSTALLED ON ALL CONDUIT OPEN ENDS.

MPTY CONDUITS SHALL HAVE A NYLON PULLSTRING LLED PER SPECIFICATIONS.

G DEVICES SHALL BE SPECIFICATION GRADE, IVORY COLOR, BRUSHED STAINLESS STEEL COVERPLATES, HUBBELL, P&S, ER OR LEVITON. PROVIDE TAMPER-RESISTANT PTACLES IN LOCATIONS AS REQUIRED BY NEC 406.12.

ONDUIT, FITTINGS, BENDS, ETC. SHALL BE PROPERLY ORTED PER NEC AND NEATLY INSTALLED.

IFY PANEL AND CIRCUIT NUMBER ON ALL RECEPTACLE RPLATES WITH PRINTED LABELS WITH BLACK LETTERS ON ADHESIVE BACKGROUND.

IDE TYPED PANEL DIRECTORIES INDICATING TYPE OF LOAD COOM DESCRIPTION WITH ROOM NUMBER AND TYPE. TE ALL EXISTING PANEL DIRECTORIES WITH NEW TYPED TORY CARDS WITH ALL CIRCUIT REVISIONS NOTED.

PARE BREAKERS IN PANELBOARDS SHALL BE TURNED 'OFF'.

OTAL LOAD (AMPERES) OF ANY BRANCH CIRCUIT SHALL XCEED 80% OF THE RATED AMPACITY OF THE CIRCUIT KER FOR THAT CIRCUIT.

LECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK OTHER CONTRACTORS TO AVOID INTERFERENCE WITH THE ING COMPONENTS, EXISTING UTILITIES, EQUIPMENT, ETC.

.C. SHALL PROVIDE FIRESTOPPING FOR ALL PENETRATIONS RATED WALLS. ALL FIRESTOPPING ASSEMBLIES SHALL BE AND APPROVED FOR THE ASSEMBLY AND PENETRATION

IFY ALL BRANCH CIRCUITS AT ALL JUNCTION BOXES BY Y PRINTING PANEL AND CIRCUIT NUMBERS ON BOX RS WITH INDELIBLE MARKER.

Y LABEL BRANCH CIRCUIT NUMBERS ON EACH EXPOSED UIT LEAVING PANELBOARDS WITH INDELIBLE MARKERS.

Y LABEL PANEL AND BRANCH CIRCUIT NUMBERS ON EACH SSIBLE OR EXPOSED CONDUIT ENTERING OR LEAVING ALL BOXES AND JUNCTION BOXES WITH INDELIBLE MARKERS.

EL

FI FCTF			
	MOTOR STARTER OR VFD.	$\mathbf{\overline{\otimes}}$	EXIT LIGHTING FIXTUR
	COMBINATION MOTOR STARTER OR VFD AND	H1 <u>B1</u>	LIGHTING FIXTURE:
<u>/</u> /	DISCONNECT SWITCH. ELECTRIC MOTOR.	o b	CAPITAL LETTER DENO LOWER CASE LETTER ARRANGEMENT.
EH	UNIT HEATER.	H1 B1 Ø	LIGHTING FIXTURE ON
FC	FAN COIL UNIT.		WIRE RUN IN SURFACI
	CIRCUIT BREAKER PANEL, FLUSH MOUNTED.	NL	WIRE & CONDUIT FOR
—	CIRCUIT BREAKER PANEL, SURFACE MOUNTED.	—— EM ——	WIRE & CONDUIT FOR
	POWER PANEL OR SWITCHBOARD, SURFACE MOUNTED.	A-1&2	EACH ARROWHEAD RI CIRCUIT; CAPITAL LET
(T)	LINE VOLTAGE THERMOSTAT.		WIRE & CONDUIT IN W
(EB)			WIRE & CONDUIT UND
(AC)	AIR CONDITIONER.		JUNCTION BOX.
∨ ▼	MOUNT AT 46" M.H. UNLESS OTHERWISE INDICATED M.H.). TWO GANG OUTLET BOX WITH SINGLE GANG TRIM RING AND BLANK COVERPLATE. STUB AN EMPTY 1.0" BUSHED CONDUIT OUT ABOVE	ф ^Е	EXISTING OUTLET OR EXISTING CIRCUITRY.
	ACCESSIBLE CEILING. TELEPHONE OUTLET (18" M.H. EXCEPT WHEN SHADED, MOUNT 48" M.H. UNLESS OTHERWISE	Φ	20A-125V SINGLE REC (18" M.H.). 20A-125V DUPLEX REC
▼ 「	BLANK COVERPLATE. STUB AN EMPTY 1" BUSHED CONDUIT OUT ABOVE ACCESSIBLE CEILING.	Φ ^u	(18" M.H.). 20A-125V DUPLEX REC CHARGING PORTS (1 U 5 20P (18" M H) USP T
	FLUSH FLOOR OUTLET, HUBBELL BA-2436 FLUSH FLOOR OUTLET BOX AND SA-3826 COVERPLATE WITH 0.75" BUSHED CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE CARPET FLANGE WHERE REQUIRED.	\bigcirc	SPECIAL PURPOSE RE
	WIRELESS WIFI ACCESS POINT; CEILING MOUNTED. FIRE ALARM SPEAKER & SIGNAL LIGHT (80" A.F.F.), #	$\oplus \oplus^{D}$	20A-125V DOUBLE DUF 5-20R, (18" M.H.) TWO-
E◀ 15	WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 110 CANDELA. FIRE ALARM HORN & SIGNAL LIGHT (80" A F.F.). #	⁴⁶ "⊕⊕D	20A-125V DUPLEX REC M.H.) UNLESS OTHERV DUPLEX.
E 15	WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE RATED 110 CANDELA.	${\displaystyle \bigoplus}^{GF}$	20A-125V DUPLEX REC GROUND FAULT CIRCU
L 15	FIRE ALARM SIGNALING LIGHT (80" A.F.F.), # WHEN SHOWN INDICATES CANDELA RATING OF STROBE. WHEN A # IS NOT SHOWN, THE STROBE SHALL BE	$ \Phi^{T} $	20A-125V TAMPERPRC (18" M.H.). 20A-125V WEATHERPS
F	FIRE ALARM SENDING STATION (46" M.H.).	⊕ ^{WP/GF}	NEMA 5-20R, WITH GR INTERRUPTER (18" M.H CAST ALUMINUM "WHI
S			20A-125V DUPLEX REC
S s/R	ELECTRIC RELEASE DOOR CLOSER.		COVERPLATE. PROVI REQUIRED.
	ELECTRO-MAGNETIC DOOR HOLDER.		20A-125V DUPLEX PED RECEPTACLE, NEMA 5
R	FIRE ALARM CONTROL OR SUPERVISORY INPUT RELAY AS NOTED. CONTROL RELAY TO HAVE FORM		FLOOR BOX WITH SS-3 SC-3098A HOUSING. F WHERE REQUIRED.
W	WATER FLOW SWITCH.		20A-125V/250V-1PH-4W 14-20R, (18" M.H.).
PT	DUCT MOUNTED DETECTOR REMOTE TEST STATION	³⁰	30A-125V/250V-1PH-4W
	AND ALARM INDICATOR.	u 50	14-30R, (18" M.H.).
SD	SMOKE DAMPER	•	50A-125V/250V-1PH-4W 14-50R (18" M.H.)
NAC	FIRE ALARM NOTIFICATION APPLIANCE POWER EXTENDER PANEL. PROVIDE 20A-120V CIRCUIT FROM	Ť	SINGLE POLE WALL S
	LOCAL EMERGENCY PANEL INDICATED CONNECT TO MAIN FIRE ALARM PANEL FOR NOTIFICATION	† 2	TWO POLE WALL SWIT
Ē	SIGNALING.	† 3	THREE-WAY WALL SW
T	GANG BOX WITH 0.75" BUSHED CONDUIT TO ABOVE	† 4	FOUR-WAY WALL SWI
CR	CABLE TRAY. REFER TO DETAIL ON SHEET E0.4 DOOR ACCESS CONTROL SYSTEM CARD READER -	fos	LIGHTING OCCUPANC M.H.)
	46" M.H.	OS2	LIGHTING OCCUPANC SWITCH (46" M.H.).
C⊲F A	CCTV CAMERA. F = FIXED; PTZ = PAN/TILT/ZOOM ELECTRIC DOOR OPERATOR, INCLUDING RELAYS, OPERATING SWITCHES AND LIMIT SWITCHES SHALL	₽D	LIGHTING 0-10V LED D SLIDE CONTROL AND I STYLE SWITCH (46" M.
	BE FURNISHED BY THE DOOR EQUIPMENT SUPPLIER AND INSTALLED BY THE E.C. IN ACCORDANCE WITH APPROVED WIRING DIAGRAMS BY THE EQUIPMENT SUPPLIER (120 VOLT SINGLE PHASE OPERATION).	¶3D	INDICATED. LIGHTING 0-10V LED D SLIDE CONTROL AND 'DECORATOR' STYLE S
Ρ	PUSHPLATE DOOR CONTROLS FURNISHED BY THE DOOR EQUIPMENT SUPPLIER AND INSTALLED BY THE E.C. (42" M.H.).	∮vs	OTHERWISE INDICATE LIGHTING VACANCY SI MANUAL 'ON' PUSHBU'
	PUSHBUTTON (46" M.H. UNLESS OTHERWISE NOTED ON PLAN).		MOTION SENSOR TO A WHEN ROOM UNOCCU
(SC) (S)	WALL MOUNTED SPEAKER (96" M.H.). SINGLE GANG BOX WITH 0.75" BUSHED CONDUIT TO ABOVE ACCESSIBLE CORRIDOR CEILING OR NEAREST CABLE TRAY.	¶vs2	MANUAL 'ON' PUSHBU MOTION SENSOR TO A WHEN ROOM IS UNOC CONTACTS TO CONTR 'EMERGENCY' LIGHTIN
S S	TRUMPET TYPE SPEAKER (96" M.H.). SINGLE GANG BOX WITH 0.75" BUSHED CONDUIT TO ABOVE ACCESSIBLE CORRIDOR CEILING OR NEAREST CABLE TRAY.	ŤDV	0-10V LED COMBINATI DIMMER SWITCH WITH SEPARATE ON-OFF 'DI M.H.) UNLESS OTHERV 800 WATTS.
V	WALL MOUNTED SPEAKER VOLUME CONTROLLER (46" M.H.). SINGLE GANG BOX WITH 0.75" BUSHED CONDUIT TO ABOVE ACCESSIBLE CORRIDOR CEILING OR NEAREST CABLE TRAY.		OCCUPANCY SENSOR
P	PROJECTOR INPUT (18" M.H.).		OCCUPANCY SENSOR
	CEILING FAN FURNISHED AND INSTALLED BY E.C.; REFER TO SPECIFICATIONS	EM	CON FROL. OCCUPANCY SENSOR EMERGENCY SWITCHI

S-

BRIGHTNESS.

GENERAL NOTES

SEND

ONNECTION REQUIRED. FIXTURE. ARROWS AS INDICATED.

ER DENOTES FIXTURES TYPE. LETTER DENOTES SWITCHING

URE ON NIGHT LIGHT OR EMERGENCY

SURFACE RACEWAY.

UIT FOR NIGHT LIGHT CIRCUITRY. JIT FOR EMERGENCY CIRCUITRY.

HEAD REPRESENTS ONE COMPLETE TAL LETTER DENOTES PANEL; DTES CIRCUIT.

JIT IN WALL OR ABOVE CEILING

JIT UNDERGROUND

LET OR DEVICE TO REMAIN, MAINTAIN

LE RECEPTACLE, NEMA 5-20R

EX RECEPTACLE, NEMA 5-20R

EX RECEPTACLE WITH INTEGRAL USB RTS (1 USB 'A'; 1 USB 'C' PORT), NEMA).USB TYPE A-C CHARGING PORTS 5 AMPS COMBINED CHARGING

OSE RECEPTACLE. REFER TO NOTE

BLE DUPLEX RECEPTACLE, NEMA I.) TWO-GANG ASSEMBLY. D = DOUBLE

EX RECEPTACLE, NEMA 5-20R, (46" OTHERWISE INDICATED D = DOUBLE

EX RECEPTACLE, NEMA 5-20R, WITH T CIRCUIT INTERRUPTER (18" M.H.). PERPROOF RECEPTACLE, NEMA 5-20R,

THERPROOF DUPLEX RECEPTACLE,

VITH GROUND FAULT CIRCUIT (18" M.H.), WITH HUBBELL #WP26M JM "WHILE-IN-USE" COVER.

EX RECEPTACLE, NEMA 5-20R, IN 436 FLUSH FLOOR BOX WITH SA-3825 PROVIDE CARPET FLANGE WHERE

EX PEDESTAL TYPE FLOOR NEMA 5-20R, IN HUBBELL BA-2436 ITH SS-3090 COVERPLATE AND SING. PROVIDE CARPET FLANGE

-1PH-4W SINGLE RECEPTACLE, NEMA

-1PH-4W SINGLE RECEPTACLE, NEMA

-1PH-4W SINGLE RECEPTACLE, NEMA

WALL SWITCH (46" M.H.)

LL SWITCH (46" M.H.).

ALL SWITCH (46" M.H.).

ALL SWITCH (46" M.H.).

UPANCY SENSOR WALL SWITCH (46"

UPANCY SENSOR 2 CIRCUIT WALL

/ LED DIMMER SWITCH WITH PRESET DL AND POWER ON-OFF 'DECORATOR' (46" M.H.) UNLESS OTHERWISE

V LED DIMMER SWITCH WITH PRESET OL AND 3-WAY POWER ON-OFF STYLE SWITCH (46" M.H.) UNLESS IDICATED.

ANCY SENSOR WALL SWITCH WITH PUSHBUTTON AND DUAL TECHNOLOGY OR TO AUTOMATICALLY TURN 'OFF' JNOCCUPIED (46" M.H.).

ANCY SENSOR WALL SWITCH WITH PUSHBUTTON AND DUAL TECHNOLOGY OR TO AUTOMATICALLY TURN 'OFF' S UNOCCUPIED: WITH TWO ISOLATED CONTROL 'NORMAL' AND LIGHTING (46" M.H.).

BINATION VACANCY SENSOR AND CH WITH PRESET SLIDE CONTROL AND -OFF 'DECORATOR' STYLE SWITCH (46" OTHERWISE INDICATED, RATED MIN.

SENSOR, CEILING MOUNTED.

SENSOR CONTROL RELAY.

SENSOR CONTROL RELAY; 2 CIRCUIT RMAL AND EMERGENCY POWER

SENSOR UL 924 RELAY TO TURN EMERGENCY SWITCHLEG LIGHTS 'ON' AND BYPASS SWITCH ON LOSS OF NORMAL POWER, DIMMED EMERGENCY FIXTURES TO BYPASS DIMMER CONTROL TO DRIVE DIMMED FIXTURES TO FULL

ALL WORK SHALL BE IN ACCORDANCE WITH THE 2017 OHIO BUILDING CODE, INCLUDING REFERENCED CODES AND STANDARDS, ALL LOCAL AND STATE CODES AND MEET APPROVAL OF AUTHORITIES HAVING JURISDICTION. BIDDERS SHALL INSPECT PROJECT SITE EXISTING CONDITIONS DURING BIDDING. INCLUDE PAYMENT OF ALL PERMIT AND INSPECTION FEES AND OBTAIN AN ELECTRICAL PERMIT AND SECURE INSPECTION AND APPROVAL OF THE CODE OFFICIAL. SUBMIT AN ELECTRONIC COPY OF SUBMITTAL DATA AND DESCRIPTIVE LITERATURE IN .PDF FORMAT FOR ALL FIXTURES AND EQUIPMENT. WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY AND REPRESENT THE BEST PRACTICES OF THE INDUSTRY. COORDINATE INSTALLATION WITH OTHER TRADES; PROVIDE OFFSETS AS REQUIRED. INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS. COORDINATE EACH ROUGH-IN INSTALLATION REQUIREMENTS AND LOCATIONS WITH OTHER TRADES, ACTUAL EQUIPMENT OR CABINETRY PROVIDED AND FIELD CONDITIONS BEFORE PERFORMING WORK. REFER TO ARCHITECTURAL DRAWING ELEVATIONS FOR MOUNTING LOCATION INFORMATION, ARRANGEMENT AND HEIGHT FOR ALL DEVICES AT FURNISHINGS, CASEWORK, ETC. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES. WHERE DISCREPANCIES MAY OCCUR BETWEEN THE ELECTRICAL PLANS AND THE ARCHITECTURAL CEILING PLANS ON QUANTITY OF FIXTURES, THE ELECTRICAL PLANS SHALL TAKE PRECEDENCE. COORDINATE FIXTURE LOCATIONS WITH OTHER TRADES TO AVOID CONFLICTS WITH PIPING AND DUCTWORK. ALL EQUIPMENT AND MATERIAL REQUIRED FOR COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEMS SHALL BE INCLUDED IN THE CONTRACT. ELECTRICAL INDEX OF DRAWINGS DRAWING TITLE <u>SHEET</u> E0.1 LEGEND E0.2 SCHEDULES E0.3 SINGLE LINE E0.4 DETAILS E0.5 PANEL SCHEDULE E1.1 SITE PLAN E2.1 FIRST FLOOR LIGHTING PLAN E2.2 MEZZANINE E3.1 FIRST FLOOR POWER PLAN E4.1 FIRST FLOOR SYSTEMS PLAN E4.2 MOTOR, STARTERS, DISCONNECTS AND CONTROLS SEISMIC REQUIREMENTS THIS PROJECT HAS SEISMIC REQUIREMENTS. REFER TO DRAWING H0.1

Nauman & Zelinski LLC.

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LIG	HTIN	IG FIXTURE	SCHEDULE															
LA FIXTURE SYMBOL	- LED	TYPE BALLER BALL	LUMENS/ COLOR TEMP 3600 LUMENS / 4000K	12 FIXTURE VOLTAGE	MANUFACTURER & CATALOG NO. LITHONIA# CPX 2X2 AL07 SWW M4	OTHER ACCEPTABLE MANUFACTURES COLUMBIA, DAYBRITE	DIFFUSING MEDIA MATTE WHITE LENS	ALUMINUM ALUMINUM ALUMINUM STANDAPD STANDAPD STANDAPD	SEE NOTES	MOUNTED S - SURFACE. R - RECESSED. SM - STEM MTD. WM - WALL MTD. C - CHAIN MTD. UC - UNDER CAB. CS - CLG. SURF. R(GRID) 24	HLSN3 H H 24	HLd30	DIAMETER	SEE NOTES 12	A			rrive, Englewood, Ohio 45322
C1	•	40	5000 LUMENS / 4000K	120	LITHONIA# CLX L48 5000LUM SEF FDL MVOLT G210 40K	COLUMBIA, DAYBRITE	FLAT DIFFUSE LENS	•	-	WM/S/SM 3	48	3		13				odside [
C2	•	12 PER FT	700 LUMEN PER FT / 4000K	120	LITECONTROL # 3L - P - ID - LPA - 4 - 08 - SOF - C1 - 40K9 - IO30 - D040 - D01 - 2C		FLAT DIFFUSE LENS	•		PENDANT 3	48	4.5		####				15 Woc
C3	•	12 PER FT	700 LUMENS PER FOOT / 4000K	120	LITECONTROL # 3L - P - ID - LPA - 8 - 08 - SOF - C1 - 40K9 - IO30 - D040 - D01 - 2C		FLAT DIFFUSE LENS	•		PENDANT OR WM SEE PLAN 3	96	4.5		###	-			ġ
D1	•		2500 LUMENS / 4000K	120	LITHONIA # FMVTSL - 24IN - MVOLT - 30K - 90CRI - BN - M4	PRUDENTIAL	ANGLED WHITE PERF	•		WM (6'-0" A.F.F) 5	48	4					• 	
F1	•	14	1100 LUMENS	120	LITHONIA# WF6-LED-304050K-90CRI-MW	GREEN CREATIVE	FLAT WHITE LENS	•		R		1.5	6	1, 4			· · · · · ·	· · · .
F2	•	25	2000 LUMENS / 4000K	120	LITHONIA#LDN6-AL02-40K-LO6-NR-TRN-MVO LT-UGZ1	PRESCOLITE	REGRESSED WHITE BAFFLE	•		R		4	6	8			R	On A
F3	•	10	1000 LUMENS / 4000K	120	LITHONIA # WF6-ADJ-LED-30K40K	WAC	ADJUSTABLE LENS	•		R		3	6				AN A	
L1 L2	•	20	VARIES / 4000K VARIES / 4000K	120	ACOLYTE #CHAS1-M-BK-RB-0-SWS220-2.2-40 LUMINII #KMHE48LO-40K-FE-EC-BZ-GSBK	LUMINII ACOLYTE	WHITE LENS WHITE LENS	•		S STRIP 0.7 S STRIP 0.7	5	0.5		11	_	·. ···		'
					#RWIIL4020-40R-II-I C-D2-CCDR													
PL1	•	100	12000 LUMENS / 4000K	120	LITHONIA# DSX0 - LED - P5 - 40K - 70CRI - T3M - MVOLT - SPA - DDBXD/SSS - 20 - 4G -	BEACON	FULL CUTOFF (TYPE III)	•		20' (5") SQUARE STEEL POLE				3,5,10				
PL2	•	100	12600 LUMENS / 4000K	120	LITHONIA# DSX0 - LED - P5 - 40K - 70CRI - T5M - MVOLT - SPA - DDBXD/SSS - 20 - 4G -	BEACON	FULL CUTOFF (TYPE IV)	•		20' (5") SQUARE STEEL POLE				3,5,10				
PL3	•	100	12300 LUMENS / 4000K	120	LITHONIA# DSX0 - LED - P5 - 40K - 70CRI - T4M - MVOLT - SPA - DDBXD/SSS - 20 - 4G -	BEACON		•		20' (5") SQUARE STEEL POLE				3,5,10	С			
PL4	•	100	12600 LUMENS / 4000K	120	LITHONIA# DSX0 - LED - P5 - 40K - 70CRI - T5M - MVOLT - SPA - DDBXD/SSS - 20 - 4G -	BEACON		•		20' (5") SQUARE STEEL POLE				3,5,10				
PL5	•													13			Z	່ວ
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UC1	•	10	500 LUMENS / 4000K	120	LITHONIA# UPLD-18IN-30K-90CRI-SWR-WH	CONTECH, LAMAR	MATTE WHITE LENS	•	2	UC (OR SHELF)	18			2	-		P	
UC2	•	13	740 LUMENS / 4000K	120	LITHONIA# UPLD-24IN-304K-90CRI-SWR-WH	CONTECH, LAMAR	MATTE WHITE LENS	•	2	UC (OR SHELF)	24						S	
																	Ш	Ō
X1	•	5W		120	LITHONIA # LHQM-LED-R-HO-M6	COMPASS, CHLORIDE	LED EMERGENCY/EXIT RED LETTERS ON WHITE W/EM HEADS			SURFACE ABOVE DOOR						TON		
REM	•			120	LITHONIA # ERE-GY-T-RD-WP	COMPASS, CHLORIDE	LED REMOTE LAMP HEADS - 2 HEAD - ROUND			WM OR CLG SURFACE TO CANOPY			4			JAY ⁻		D

NOTE... 1. SWITCHABLE COLOR TEMPERATURE.

2. INTEGRAL ROCKER SWITCH (HARD WIRED CONNECTION), WIRED AHEAD OF LOCAL SWITCHING.

3. REFER TO POLE BASE DETAIL.

4. PROVIDE SURFACE MOUNTED WEATHER PROOF BACK BOX FOR SURFACE MOUNTING TO UNDERSIDE OF CANOPY, WHERE EXTERIOR MOUNTED.

5. FIXTURES SHALL HAVE 7-PIN CONTROL RECEPTACLE WITH SHORTING CAP, REFER TO SITE PLAN FOR POLE FIXTURES WITH CONVENIENCE RECEPTACLE AT BASE.

6. PROVIDE CONCRETE BASE, FLUSH WITH GRADE, ADJACENT TO CONCRETE WALK AROUND FLAG POLE. PROVIDE FINAL AIMING AT FLAG.

7. COORDINATE SUSPENSION HEIGHT AND LOCATION WITH ARCHITECT.

8. ADJUSTABLE LUMEN OUTPUT 1000-2000 LUMEN.

9. INCANDESCENT LAMP HOUSING WITH WHITE REFLECTOR ONLY. LAMP BY OTHERS.

10. 'C' POST-SCRIPT ON FIXTURE TAG INDICATES POLE TO HAVE PROVISIONS FOR DUPLEX RECEPTACLE AT BASE OF POLE AND PROVISIONS FOR SURVEILLANCE CAMERA AT 14' MOUNTING HEIGHT. 11. CUSTOM LENGTH PER FIELD CONDITIONS, COORDINATE WITH ARCHITECTURAL.

12. FIXTURE WITH 'E' POSTSCRIPT SHALL HAVE INTEGRAL BATTERY BACKUP.

13. CITY OF DAYTON DECORATIVE STREET LIGHTING FIXTURE, POLE AND BASE.

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ГІ	4-#2, #8 GRD. (CO), 1.25 C.
F2	4-#6, #10 GRD. (CU), 1.25"C.
F3	4-#10, #10 GRD. (CU), .75"C.
F4	2 SETS OF 4-#500 KCMIL (AL), #1/0 (CU) GRD., 4"C.
F5	3-#2/0, #6 GRD (CU), 1.5" C.
F6	3-#1/0, #6 GRD. (CU), 1.5"C.
F7	3-#4, #8 GRD. (CU), 1.25"C.
F8	4-#500, #1/0 GRD. (CU), 3"C.
F9	4-#250 KMIL(AL.), #2 GRD., 3"C.
F10	4 #2/0, #4 GRD. (CU), 2"C.
F11	2 SETS OF 4-#500 KCMIL (AL) 4"C

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Br	anch Panel:	: A													
LOCATION: Space 16 SUPPLY FROM: T1 VOLTAGE: 120/208 Wye-3-4				e-3-4	MOUNTING: Surface ENCLOSURE: Type 1 MCB RATING: 1 A					A.I.C RATING MAINS TYPE: M.C.B. MAINS RATING: 225 A					
скт	Description	Trip	Poles	Note		4		В		С	Note	Poles	Trip	Description	C
1	Roll Call 111	20 A	1		540 VA	900 VA						1	20 A	Roll Call 111	+
3	COMM/Servi	20 A	1				720 VA	720 VA				1	20 A	Roll Call 111	+
5	Report/Mail	20 A	1						540 VA	1440 VA		1	20 A	IT 114	+
7	Report/Mail	20 A	1		360 VA	360 VA						1	20 A	Report/Mail	+
9	Motor	20 A	1				700 VA	540 VA				1	20 A	Report/Mail	+
11	Power	20 A	2						500 VA	500 VA		2	20 A	Power	+
13					500 VA	500 VA									+
15	FC6BE	20 A	2				3750 VA	1900 VA	4			2	20 A	FC4E	t
17									3750 VA	1900 VA					t
19	FC3E	20 A	2		3000 VA	1900 VA						2	20 A	FC5E	+
21							3000 VA	1900 VA	4						+
23	Drver	20 A	2						2496 VA	3750 VA		2	20 A	Power	$^{+}$
25					2496 VA	3750 VA									t
27	Lighting	20 A	1				540 VA	1200 V	4			1	20 A	EF2	+
29	EF3	20 A	1						500 VA	1150 VA		2	20 A	FC1E	+
31	FC2E	20 A	2		1150 VA	1150 VA									+
33							1150 VA	875 VA				2	15 A	Power	+
35	Lighting	20 A	1						1490 VA	875 VA					+
37	Motor	20 A	1		1600 VA										+
39															+
41															+
43															+
45															+
47															+
49															+
51															+
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ΝΟΤΙ	ES:	Total	Louu.		2012		2200		2201	1 0/1			<u> </u>		
Load Classification				Connect	ed Load	Demand F	actor	Estimated			F	anel T	otals		

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Load Classification	Connected Load	Demand Factor	Estimated	Panel	Totals
Lighting	2030 VA	125.00%	2538 VA		
Motor	4000 VA	110.00%	4400 VA	Total Conn. Load:	70192 VA
Other	1500 VA	100.00%	1500 VA	Total Est. Demand:	64334 VA
Power	39130 VA	100.00%	39130 VA	Total Conn. Current:	195 A
Receptacles	23532 VA	71.25%	16766 VA	Total Est. Demand	179 A

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 | Swi | itchboard: MC
Location: Space
Supply From: ATS
Mounting: Surface
Enclosure: Type 1 | B
16 | Volts:
Phases:
Wires: | 480/277 Wye
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 | A.I.C. Rating:
Mains Type: M.C.B
Mains Rating: 600 A
MCB Rating: 600 A
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NAUMAN & ZELINSKI LLC. 204 S. Ludlow Street Suite 400 Dayton, Ohio 45402 Phone: (937) 223-3821 ~ Fax: (937) 223-3849

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

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

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16. FLUSH MOUNTED TWISTLOCK RECEPTACLE AT CEILING STRUCTURE FOR SERVICE CORD DROP TO VEHICLE BAY.

Nauman & Zelinski LLC.

204 S. Ludlow Street Suite 400 Dayton, Ohio 45402 Phone: (937) 223-3821 ~ Fax: (937) 223-3849

1. PROVIDE TWO GANG BOX WITH 1.25" CONDUIT TO TV WALL BOX FOR A/V CABLING (BY OWNER). COORDINATE LOCATIONS AND COVER PLATES WITH OWNER.

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- 2. PROVIDE 3/4" PLYWOOD, 3 WALLS, FOR DATA, IT EQUIPMENT.
- 3. DATA ROUGH-IN / WALL BOX AT TOP OF TRAINING TOWER FOR WIRELESS ACCESS POINT.
- 4. REFER TO SITE PLAN FOR ROUTING OF SERVICE ENTRANCE CONDUIT TO UTILITY POLE
- 5. PROVIDE 12" W x 4" DP. BASKET TRAY ABOVE CEILING FOR LOW VOLTAGE SYSTEMS CABLING.
- PROVIDE TWO 4" CONDUIT STUBS ABOVE DRYWALL CEILING FOR LOW VOLTAGE SYSTEMS CABLING.
- 7. 4" CONDUITS STUBBED FROM IT ROOM TO ABOVE 1ST FLOOR CEILING FOR SYSTEMS CABLING.
- 8. PROVIDE SPEAKER CABLING FOR EXTERIOR ZONE (FLUSH SOFFIT MOUNTED SPEAKER).

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Nauman & Zelinski LLC.

204 S. Ludlow Street Suite 400 Dayton, Ohio 45402 Phone: (937) 223-3821 ~ Fax: (937) 223-3849

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DOAS1		DOAS UNIT 1	60.9 MCA 70 MOCP					•	EAST WALL OUTSIDE					
CU1A		CONDENSING UNIT 1A	35 MCA 35 MOCP					•	EAST WALL OUT SIDE					
CU1B		CONDENSING UNIT 1B	50 MCA 50 MOCP					•	EAST WALL OUTSIDE					
BS -1		BRANCH SELECTOR	1.2 MCA 20 MOCP			•			MEZZANINE					
FC-1		FAN COIL UNIT 1	1.2 MCA 15 MOCP			•								
FC-1E		FAN COIL UNIT 1 HEAT	2.3KW			•								
FC-2		FAN COIL UNIT 2	1.2 MCA 15 MOCP			•								
FC-2E		FAN COIL UNIT 2 HEAT	2.3 KW			•								
FC-3		FAN COIL UNIT 3	1.2 MCA 15 MOCP			•								
FC-3E		FAN COIL UNIT 3 HEAT	6 KW			•								
FC-4		FAN COIL UNIT 4	1.2 MCA 15 MOCP			•								
FC-4E		FAN COIL UNIT 4 HEAT	3.8 KW			•								
FC-5		FAN COIL UNIT 5	1.2 MCA 15 MOCP			•								
FC-5E		FAN COIL UNIT 5 HEAT	3.8 KW			•								
FC-6A		FAN COIL UNIT 6A	1.2 MCA 15 MOCP			•								
FC-6AE		FAN COIL UNIT 6A HEAT	7.5 KW			•								
FC-6B		FAN COIL UNIT 6B	1.2 MCA 15 MOCP			•								
FC-6BE		FAN COIL UNIT 6B HEAT	7.5 KW			•								
FC-7		FAN COIL UNIT 7	1.2 MCA 15 MOCP			•								
FC-7E		FAN COIL UNIT 7 HEAT	6 KW			•								
FC-8		FAN COIL UNIT 8	.3 MCA 15 MOCP			•								
FC-9		FAN COIL UNIT 9	.3 MCA 15 MOCP			•								
FC-10		FAN COIL UNIT 10	.3 MCA 15 MOCP			•								
EF-1		EXHAUST FAN 1	1/4 HP	•										
EF-2		EXHAUST FAN 2	1/2 HP	•										
EF-3		EXHAUST FAN 3	1.9 MCA 15 MOCP	•										
EUH-1		ELECTRIC UNIT HEATER	5 KW					•						
EUH-2		ELECTRIC UNIT HEATER	1.5 KW	•										
CF-1		CEILING FA N 1	35.4 W	•										
WH-1		WATER HEATER 1						•	MECH RM					

* REFER TO ECM CONTROL DIAGRAM(S) ON HVAC DRAWINGS, WHEN NOTED, FOR INTERLOCK WIRING AND AUX POWER REQUIREMENTS. NOTES:

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8/14/24 DATE 4205.00 JOB NO. JE DRAWN CHECKED JDZ COPYRIGHT © 2024 - App Architecture, Inc.

TITLE MOTOR, STARTERS, DISCONNECTS AND CONTROLS

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INVERTER SCHEDULE

BASIS OF DE	SIGN: SOLECT	RIA -YASKAWA							
			DC (II	NPUT)					
TAG	MODEL	MAX POWER [kW]	MAX. VOLTAGE	VOLTAGE RANGE	MAX. CURRENT	VOLTAGE/PHASE	CONTINUOUS POWER [kW]	CONTINUOUS CURRENT	EFFICIENCY
INVT-1	PVI-50TL-480	90	1000 VDC	950 - 200	204	480 / 3	50	60.2	98.8%
NOTES:									

PROVIDE WIREBOX WITH INVERTER; INCLUDES AC & DC POWER CONNECTION, DC DISCONNECT SWITCH,
 PROVIDE MONITORING PLATFORM CONTROLLER, #ENC-G5.

SOLAR PANEL SCHEDULE

BASIS OF DESIGN: JINKO EQUAL BY: SILFAB, LG & Q.CELL

PERFORMANCE BASED ON STO	ERFORMANCE BASED ON STC												
	VOLTAGE CURRENT		RENT		PRODUCT	POWER	DIMENSIONS			CONNECTOR	N		
MODEL	MAX. POWER	MPP	ОС	MPP	SC	EFFICIENCY	WARRANTY	WARRANTY	LENGTH	WIDTH	HEIGHT	TYPE	V
JKM570N-72HL4	570 WATTS	43.58	51.20	10.59	11.16	22%	12 YEARS	25 YEARS	89.7"	43.15"	1.18"	MC4	

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SOLAR GENERAL NOTES

- 1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2024 OHIO BUILDING CODE AND THE 2023 NATIONAL ELECTRIC CODE.
- 2. PROTECT EQUIPMENT FROM DAMAGE DURING CONSTRUCTION.
- 3. PROTECT OTHER TRADES' EQUIPMENT FROM DAMAGE AND THEFT.
- 4. MAINTAIN A CLEAN WORK SITE. ALL DEBRIS/TRASH SHALL BE REMOVED FROM SITE.
- 5. REFER TO ELECTRICAL SPECIFICATIONS FOR WIRING METHODS, CONDUIT, GROUNDING, ETC.
- 6. ALL EXTERIOR EQUIPMENT SHALL BE NEMA 3R RATED.
- 7. NO EQUIPMENT IN THIS ARRAY SHALL BE INSTALLED LESS THAN 10' FROM THE EDGE OF THE ROOF.
- 8. ELECTRONIC SHOP DRAWINGS SHALL BE PROVIDED IN .PDF FORMAT FOR THE ENGINEER'S APPROVAL FOR ALL MATERIALS AND EQUIPMENT. SHOP DRAWINGS SHALL BE SPECIFICALLY EDITED TO ELIMINATE SUPERFLUOUS INFORMATION AND SHALL CLEARLY SHOW SPECIFICS FOR THE MATERIAL AND EQUIPMENT PROVIDED.
- 9. COORDINATE INSTALLATION OF ACTUAL EQUIPMENT AND SYSTEMS PROVIDED WITH OTHER TRADES AND NEW OR EXISTING CONDITIONS.
- 10. INSTALL ALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS. PROVIDE REQUIRED CLEARANCES TO MEET CODE REQUIREMENTS, MANUFACTURER'S RECOMMENDATIONS AND MAINTENANCE SERVICE.
- 11. PROVIDE FINAL COORDINATION/INSTALLATION DRAWINGS TO THE OWNER IN BOUND PAPER AS WELL AS ELECTRONIC FORMAT FOR RECORD.
- 12. MAINTAIN RECORD DRAWINGS AND PROVIDE TO THE OWNER OR HIS AGENT.
- 13. PROVIDE TWO (2) BOUND, PAPER COPIES OF ALL OPERATING AND MAINTENANCE MANUALS. PROVIDE AN ELECTRONIC COPY OF THE OPERATING AND MAINTENANCE MANUAL.
- 14. PROVIDE WARRANTY FOR ALL WORKMANSHIP, EQUIPMENT AND MATERIAL. WARRANTY SHALL BE 1 YEAR FOR PART AND LABOR, PROVIDE EXTENDED WARRANTY PERIOD FOR PARTS AND/OR LABOR AS IDENTIFIED OR AS STANDARD FOR CERTAIN ITEMS OF EQUIPMENT.
- 15. PROVIDE TRAINING AND MAINTENANCE INSTRUCTION FOR SYSTEMS AND EQUIPMENT TO THE OWNER. TRAINING SHALL BE 4 HOURS OF TIME AND INCLUDE SETUP OF THE INVERTER WEB MONITORING APP.

ALTERNATE PV1

ALL WORK INVOLVING THE INSTALLATION OF THE SOLAR ARRAY SHALL BE BID UNDER ALTERNATE PV1.

ALTERNATE PV1 INCLUDES ITEMS ON ELECTRICAL SHEETS.

SOLAR INDEX OF DRAWINGS

<u>SHEET</u>	DRAWING TITLE
PV0.1	LEGEND, GENERAL NOTES AND SPECIFICATION
PV0.2	SINGLE LINE DIAGRAM & CONTROLS
PV0.3	CARPORT STRUCTURE
PV0.4	LABELS
PV1.1	SITE PLAN

COPYRIGHT © 2024 - App Architecture, Inc. TITLE LEGEND, GENERAL NOTES AND SPECIFICATION SHEET NO.

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- PRODUCT REQUIREMENTS

- **INSTALLATION**

CARPORT STRUCTURE DESIGN REQUIREMENTS

1. THE CARPORT STRUCTURE SHALL BE DESIGNED BY A CARPORT MANUFACTURER WITH CONSTRUCTION DOCMENTS SEALED A PROFESSIONAL ENGINEER. DESIGN SHALL MEET THE REQUIREMENTS OF THE 2024 OHIO BUILDING CODE.

2. THE CARPORT STRUCTURE SHALL BE SELF-SUPPORTING AND STABLE AFTER THE CONSTRUCTION IS FULLY COMPLETED. IT IS SOLEY THE CARPORT MANUFACTURERS RESPONSIBILITY TO DETERMINE STRUCTURE ERECTION PROCEDURE TO ENSURE SAFETY OF THE STRUCTURE AND COMPONENTS PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF ANY SHORING, SHEETING, TEMPORARY BRACING, GUYS, OR TIEDOWNS WHICH MAY BE NECESSARY TO ERRECT THE STRUCTURE.

3. THE CARPORT STRUCTURE MANUFACTURER SHALL FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING

4. FIELD VERIFY DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY WHERE CONFLICTS EXIST BETWEEN THE CONTRACT DOCUMENTS AND FIELD CONDITIONS. ANY DISCREPANCIES INDICATED SHALL BE RESOLVED PRIOR TO ORDERING THE CARPORT STRUCTURE.

5. SPECIAL INSPECTIONS REQUIRED BY THE 2024 OBC SHALL BE PERFORMED BY A QUALIFIED INSPECTOR. REFER TO THE STRUCTURAL ENGINEERS DRAWINGS FOR REQUIRED SPECIAL INSPECTIONS OF STEEL STRUCTURES.

:	2024 OHIO BUILDING CODE CATEGORY IV
CTOR: SPEED: ID SPEED: GORY:	1.15 120 MPH 90 MPH B (VERIFY WITH STRUCTURAL ENGINEER)
EGORY (Ce) ICE FACTORY:	20 PSF 1.0 1.2 1.0
FACTOR: GORY:	1.5 C (VERIFY WITH STRUCTURAL ENGINEER)
	20 PSF

1. CARPORT SHALL BE CANTILEVER TYPE, VERTICAL COLUMNS LOCATED AT THE HEAD OF PARKING SPACES. 2. CARPORT SHALL BE CAPABLE OF INSTALLATION OF DESIGN SOLAR ARRAY CONFIGURATION.

3. THE MINIMUM STRUCTURE HEIGHT IS 10' ABOVE PARKING GRADE.

1. THE CARPORT MANUFACTURER SHALL INCLUDE SITE INSTALLATION OF THE STRUCTURE IN THEIR PROPOSAL. FINAL INSTALLATION, MATERIAL STORAGE, RIGGING, AND ALL OTHER REQUIRED CONSTRUCTION ITEMS SHALL BE COORDINATED BETWEEN THE G.C., E.C. AND CARPORT MANUFACTURER.

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2. PERFORM ALL REQUIRED SPECIAL INSPECTIONS. RESULTS SHALL BE PROVIDED TO THE SOLAR ENGINEER OF RECORD.

VITS VITH CONSTRUCTION DOCMENTS SEALED BY 4 OHIO BUILDING CODE. CONSTRUCTION IS FULLY COMPLETED. IT IS RE ERECTION PROCEDURE TO ENSURE CLUDES THE ADDITION OF ANY SHORING, Y TO ERRECT THE STRUCTURE. TY CODES AND REGULATIONS DURING E ARCHITECT/ENGINEER IMMEDIATELY ITIONS. ANY DISCREPANCIES INDICATED ALIFIED INSPECTOR. REFER TO THE EEL STRUCTURES.	A	App F. Architecture creative focused design	615 Woodside Drive, Englewood, Ohio 45322 T 937.836.8898 F 937.832.3696 www.app-arch.com
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D OF PARKING SPACES. JRATION.	С		
TURE IN THEIR PROPOSAL. FINAL JCTION ITEMS SHALL BE COORDINATED THE SOLAR ENGINEER OF RECORD.			Z
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Design & Consulting 937-543-2125		PV	0.3

RAPID SHUTDOWN REQUIRED - UNKNOWN FOR NON-BUILDING STRUCTURE.	MAXIMUM VOLTAGE MAXIMUM CIRCUIT CURRENT MAX RATED OUTPUT CURRENT O THE CHARGE CONTROLLER OR DC-TO-DC CONVERTER (IF INSTALLED)		
ACARD TO BE PLACED NEXT TO THE DC DISCONNECT SWITCH ON EACH INVERTER. ACARD TO BE PLACED ON EACH AC DISCONNECT SWITCH.	(1) PLACARD TO BE PLACED ON EACH AC D		
	SOLAR PV SYSTEM WITH RAPID SHU		
AC DISCONNECT SWITCH	TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUDOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN ARRAY		
(1) PLACARD TO BE PLACED ON EACH AC DISCONNECT SWITCH.	(1) PLACARD TO BE PLACED ON E		
PV ARRAY WARNING: POWER SOURCE OUTPUT CONNNECTION O NOT RELOCATE THIS OVERCURRENT DEVICE	WARNING THIS EQUIPMENT FED BY M TOTAL RATING OF ALL OVER EXCLUDING MAIN SUPPLY OV SHALL NOT EXCEED AMPA		
(1) PLACARD TO BE PLACED AT EACH CIRCUIT BREAKER INSIDE 'MDP'.	(1) PLACARD TO BE PLACED ON THE EXTERIOR C		
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