

PLOTTED:

SHEET NAME:

FILENAME:

ROCKDALE COUNTY WATER NOTES:

DESIGN AND CONSTRUCTION OF ALL WATER AND SANITARY SEWER LINES SHALL CONFORM TO ROCKDALE WATER RESOURCES WATER AND WASTEWATER STANDARDS AND SPECIFICATIONS, LATEST EDITION.

CONTRACTOR WILL NOTIFY RWR ENGINEERING DEPARTMENT AT LEAST 72 HOURS PRIOR TO BEGINNING OF CONSTRUCTION ON WATER AND SEWER. AN INSPECTOR WILL BE ASSIGNED AND A PRE-CONSTRUCTION MEETING SCHEDULED AT THIS TIME.

AS-BUILT DRAWINGS SHALL BE FIELD VERIFIED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER OR LAND SURVEYOR, LICENSED IN THE STATE OF GEORGIA.

THE CONTRACTOR SHALL COMPLY WITH ALL UTILITIES PROTECTION CENTER REQUIREMENTS.

ROCKDALE COUNTY MATERIAL SPECIFICATIONS:

3.01 MATERIALS

A. APPLICABLE STANDARDS: SUPPLY ALL PRODUCTS AND PERFORM ALL WORK IN ACCORDANCE WITH APPLICABLE AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM), AMERICAN WATER WORKS ASSOCIATION (AWWA), AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), OR OTHER RECOGNIZED STANDARDS. LATEST REVISIONS OF ALL STANDARDS ARE APPLICABLE. IF REQUESTED BY ROCKDALE WATER RESOURCES, SUBMIT EVIDENCE THAT MANUFACTURERS HAVE CONSISTENTLY PRODUCED PRODUCTS OF SATISFACTORY QUALITY AND PERFORMANCE FOR A PERIOD OF AT LEAST TWO YEARS.

B. SUBSTITUTIONS: WHENEVER A PRODUCT IS IDENTIFIED IN THE SPECIFICATIONS BY REFERENCE TO MANUFACTURERS' OR VENDORS' NAMES, TRADE NAMES, CATALOG NUMBERS, ETC., THE DEVELOPER MAY FREELY CHOOSE FROM THOSE REFERENCED PRODUCTS WHICH ONES HE WISHES TO PROVIDE. ANY ITEM OR PRODUCT OTHER THAN THOSE DESIGNATED SHALL BE CONSIDERED A SUBSTITUTION. THE DEVELOPER MUST OBTAIN PRIOR APPROVAL FROM ROCKDALE WATER RESOURCES FOR ALL SUBSTITUTIONS. REQUESTS FOR SUBSTITUTIONS MUST BE RECEIVED BY ROCKDALE WATER RESOURCES WITH CONSTRUCTION PLAN SUBMITTAL. PROVIDE ALL PIPE, FITTINGS, VALVES, TAPPING SLEEVES AND VALVES, HYDRANTS, AND ALL OTHER MATERIALS REQUIRED FOR COMPLETION OF THE WORK. PROVIDE MATERIALS IN ACCORDANCE WITH THE FOLLOWING:

- 1. DUCTILE IRON PIPE (DIP)
2. DUCTILE IRON PIPE SHALL CONFORM TO AWWA C151 AND SHALL BE CLASS 51 UNLESS SHOWN OTHERWISE. ALL PIPE SHALL BE FURNISHED IN MINIMUM LENGTHS OF 18 FEET. PIPE AND FITTINGS SHALL BE CEMENT LINED IN ACCORDANCE WITH AWWA C104. FITTINGS SHALL BE DUCTILE IRON INCLUDING GLANDS AND SHALL CONFORM TO AWWA C153 WITH MINIMUM RATED WORKING PRESSURE OF 250 PSI. PIPE AND FITTINGS SHALL BE FURNISHED WITH A BITUMINOUS OUTSIDE COATING.
3. JOINTS SHALL BE PUSH-ON TYPE PIPE AND STANDARD MECHANICAL OR FLANGED JOINT FITTINGS. PUSH-ON AND MECHANICAL JOINTS SHALL CONFORM TO AWWA C111. RESTRAINED JOINTS SHALL BE EQUAL TO AMERICAN 'LOK-FAST', 'FLEX-RING' OR 'LOK-RING', CLOW 'SUPER-LOCK', OR U.S. PIPE 'TR FLEX' OR 'LOK-TITE'. RESTRAINED JOINT PIPE (RJP) ON PIPES SHALL HAVE BOLTED JOINTS AND SHALL BE SPECIFICALLY DESIGNED FOR CLEAR SPANS OF AT LEAST 36 FEET.
4. THE APPROPRIATE GASKETS FOR MECHANICAL AND FLANGE JOINTS MUST BE PROVIDED. GASKETS FOR FLANGE JOINTS SHALL BE MADE OF 1/8-INCH THICK CLOTH REINFORCED RUBBER. GASKETS MAY BE RING TYPE OR FULL-FACE TYPE.
5. THE NECESSARY BOLTS FOR MECHANICAL AND FLANGE CONNECTIONS MUST BE PROVIDED. BOLTS FOR FLANGE CONNECTIONS SHALL BE STEEL WITH AMERICAN REGULAR UNFINISHED SQUARE OR HEXAGON HEADS; NUTS SHALL BE STEEL WITH AMERICAN STANDARD REGULAR HEXAGONAL DIMENSIONS, ALL AS SPECIFIED IN ANSI B 17.2. ALL BOLTS AND ALL NUTS SHALL BE THREADED IN ACCORDANCE WITH ANSI B 1.1, COARSE THREAD SERIES, CLASS 2A AND 2B FIT.
6. DUCTILE IRON PIPE SHALL BE ENCASED WITH POLYETHYLENE FILM WHERE APPLICABLE. POLYETHYLENE FILM SHALL HAVE A MINIMUM THICKNESS OF 8 MILS. INSTALLATION SHALL BE IN ACCORDANCE WITH AWWA C105 AND THE MANUFACTURER'S INSTRUCTIONS. ALL ENDS SHALL BE SECURELY CLOSED WITH TAPE AND ALL DAMAGED AREAS SHALL BE COMPLETELY REPAIRED TO THE SATISFACTION OF RWR.
7. ACCEPTANCE WILL BE ON THE BASIS OF ROCKDALE WATER RESOURCES INSPECTION AND THE MANUFACTURER'S WRITTEN CERTIFICATION THAT THE PIPE WAS MANUFACTURED AND TESTED IN ACCORDANCE WITH THE APPLICABLE STANDARDS.

ROCKDALE COUNTY MATERIAL SPECIFICATIONS:

FIRE HYDRANTS (FH)

- 1. ALL FIRE HYDRANTS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AWWA C502. FIRE HYDRANTS SHALL BE SPECIFIED FOR 200 PSI WORKING PRESSURE.
2. HYDRANTS SHALL BE THE COMPRESSION TYPE, CLOSING WITH LINE PRESSURE. THE VALVE OPENING SHALL NOT BE LESS THAN 5-1/4-INCHES.
3. IN THE EVENT OF A TRAFFIC ACCIDENT, THE HYDRANT BARREL SHALL BREAK AWAY FROM THE LOWER BARREL AT A POINT ABOVE GRADE AND IN A MANNER WHICH WILL PREVENT DAMAGE TO THE BARREL AND STEM. PRECLUDE OPENING OF THE VALVE, AND PERMIT RAPID AND INEXPENSIVE RESTORATION WITHOUT DIGGING OR CUTTING OFF THE WATER.
4. THE MEANS FOR ATTACHING THE UPPER BARREL TO THE LOWER BARREL SHALL PERMIT FACING THE HYDRANT A MINIMUM OF EIGHT DIFFERENT DIRECTIONS.
5. HYDRANTS SHALL BE FULLY BRONZE MOUNTED WITH ALL WORKING PARTS OF BRONZE. DS. VALVE SEAT RING SHALL BE BRONZE AND SHALL SCREW INTO A BRONZE RETAINER.
6. ALL WORKING PARTS, INCLUDING THE SEAT RING, SHALL BE REMOVABLE THROUGH THE TOP OF THE HYDRANT WITHOUT DISTURBING THE BARREL OF THE HYDRANT.
7. THE OPERATING NUT SHALL BE NATIONAL STANDARD. THE OPERATING THREADS SHALL BE TOTALLY ENCLOSED IN AN OPERATING CHAMBER SEPARATED FROM THE HYDRANT BARREL BY A RUBBER O-RING STEM SEAL AND LUBRICATED BY A GREASE OR AN OIL RESERVOIR. A STOP NUT SHALL BE POSITIONED IN THE TOP OPERATING CHAMBER OF THE HYDRANT SO THAT THE VALVE STEM CANNOT CONTACT THE BOTTOM OF THE CHAMBER WHEN THE HYDRANT IS FULLY OPEN.
8. HYDRANT SHALL BE A NON-FREEZING DESIGN AND PROVIDED WITH A SIMPLE, POSITIVE, AND AUTOMATIC DRAIN WHICH SHALL BE FULLY CLOSED WHENEVER THE MAIN VALVE IS OPENED.
9. HOSE AND PUMPER CONNECTIONS SHALL BE BREACH-LOCKED, PINNED, OR THREADED AND PINNED TO SEAL THEM INTO THE HYDRANT BARREL. EACH HYDRANT SHALL HAVE TWO 2-1/2-INCH HOSE CONNECTIONS AND ONE 4-1/2-INCH PUMPER CONNECTION, ALL WITH NATIONAL STANDARD THREADS AND EACH EQUIPPED WITH CAP AND NON-KICKING CHAIN.
10. HYDRANTS SHALL BE FURNISHED WITH A MECHANICAL JOINT CONNECTION TO THE SPOUT OF AN ANCHOR COUPLING.
11. MINIMUM DEPTH OF BURY SHALL BE 4.5 FEET. PROVIDE EXTENSION SECTION WHERE NECESSARY FOR VERTICAL INSTALLATION AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
12. ALL OUTSIDE SURFACES OF THE BARREL ABOVE GRADE SHALL BE PAINTED WHITE WITH ENAMEL EQUAL TO HOPPERS GUMARTEX 501.
13. HYDRANTS SHALL BE TRAFFIC MODEL AND SHALL BE AMERICAN-DARLING B-84-B, MBH
14. VALVE 129-01, MUELLER SUPER CENTURION, CLOW OR EAST JORDAN IRON WORKS.



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SANITARY SEWER GENERAL NOTES:

- 1. THE CONTRACTOR SHALL CALL THE UTILITIES PROTECTION CENTER "CALL BEFORE YOU DIG", TELEPHONE NUMBER 1-800-282-7411, BEFORE INITIATING EXCAVATION ACTIVITIES.
2. ALL WORK AND MATERIALS ARE TO CONFORM TO CURRENT ROCKDALE COUNTY STANDARDS.
3. NO DEVIATIONS FROM APPROVED DRAWINGS ARE ALLOWED WITHOUT APPROVAL FROM ROCKDALE COUNTY DEPARTMENT OF WATER AND SEWER.
4. ALL SANITARY SEWER CONNECTIONS TO BE WITHIN EXISTING STRUCTURE - REFER TO MECHANICAL DRAWINGS FOR LOCATIONS.
5. NO FENCES, STRUCTURES, TREES OR OTHER OBSTRUCTIONS ARE ALLOWED ON SANITARY SEWER EASEMENTS.
6. NO BURY PITS ALLOWED WITHIN SANITARY SEWER EASEMENTS.
7. NO DUMPSTER PADS OR POOL DRAIN ALLOWED INTO SANITARY SEWER SYSTEM.

WATER DISTRIBUTION GENERAL NOTES:

- 1. WATER SERVICE IS PROVIDED BY THE ROCKDALE COUNTY DEPARTMENT OF WATER AND SEWER.
2. THE DEVELOPER/CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF ALL INFRASTRUCTURE FOR A PERIOD OF 18 MONTHS AFTER THE CERTIFICATE OF OCCUPANCY. ALL WORK AND MATERIALS ARE TO CONFORM TO CURRENT ROCKDALE COUNTY STANDARDS.
3. THE CONTRACTOR SHALL CALL THE UTILITIES PROTECTION CENTER "CALL BEFORE YOU DIG", TELEPHONE NUMBER 1-800-282-7411, BEFORE INITIATING EXCAVATION ACTIVITIES.
4. NOTIFY FORSYTH COUNTY WATER AND SEWER DEPT. 24 HOURS PRIOR TO ANY WATER LINE CONSTRUCTION AT (770) 781-2160.
5. ALL WATER LINES SHALL BE DUCTILE IRON PIPE CLASS 50 OR 350.
6. WATER LINES SHALL BE INSTALLED 5' FROM BUILDING FOUNDATION.
7. WATER LINES SHALL HAVE AT LEAST 4 FEET OF COVER OR BE 4 FEET BELOW ROAD GRADE WHICHEVER IS GREATER.
8. THERE ARE NO ADDITIONAL WATER METERS PLANNED FOR THIS ADDITION.
9. FIRE HYDRANTS ARE TO BE 3-WAY 5-1/4" TYPE, AWK SERIES 27.
10. FIRE HYDRANTS MUST BE FLOW TESTED PRIOR TO FINAL PLAT TO ENSURE ADEQUATE FIRE FLOWS.
11. CONCRETE VALVE MARKERS ARE TO BE INSTALLED AT ALL VALVES EXCEPT AT FIRE HYDRANTS.
12. CONCRETE BLOCKING SHALL BE PLACED AT ALL BENDS, TEES AND FITTINGS.
13. 300 PSI CURB STOPS, CORPS AND WYES REQUIRED PER FORSYTH COUNTY STANDARDS.
14. ALL VALVES SHALL BE GATE VALVES.
15. GATE VALVES OVER 5' DEEP SHALL HAVE STEM EXTENSIONS.
16. NO DEVIATIONS FROM APPROVED DRAWINGS ARE ALLOWED WITHOUT APPROVAL FROM ROCKDALE COUNTY DEPARTMENT OF WATER AND SEWER.
17. LINES ARE TO BE PRESSURE TESTED AND DISINFECTED PER COUNTY SPECIFICATIONS.

ROCKDALE COUNTY UNDERGROUND UTILITIES:

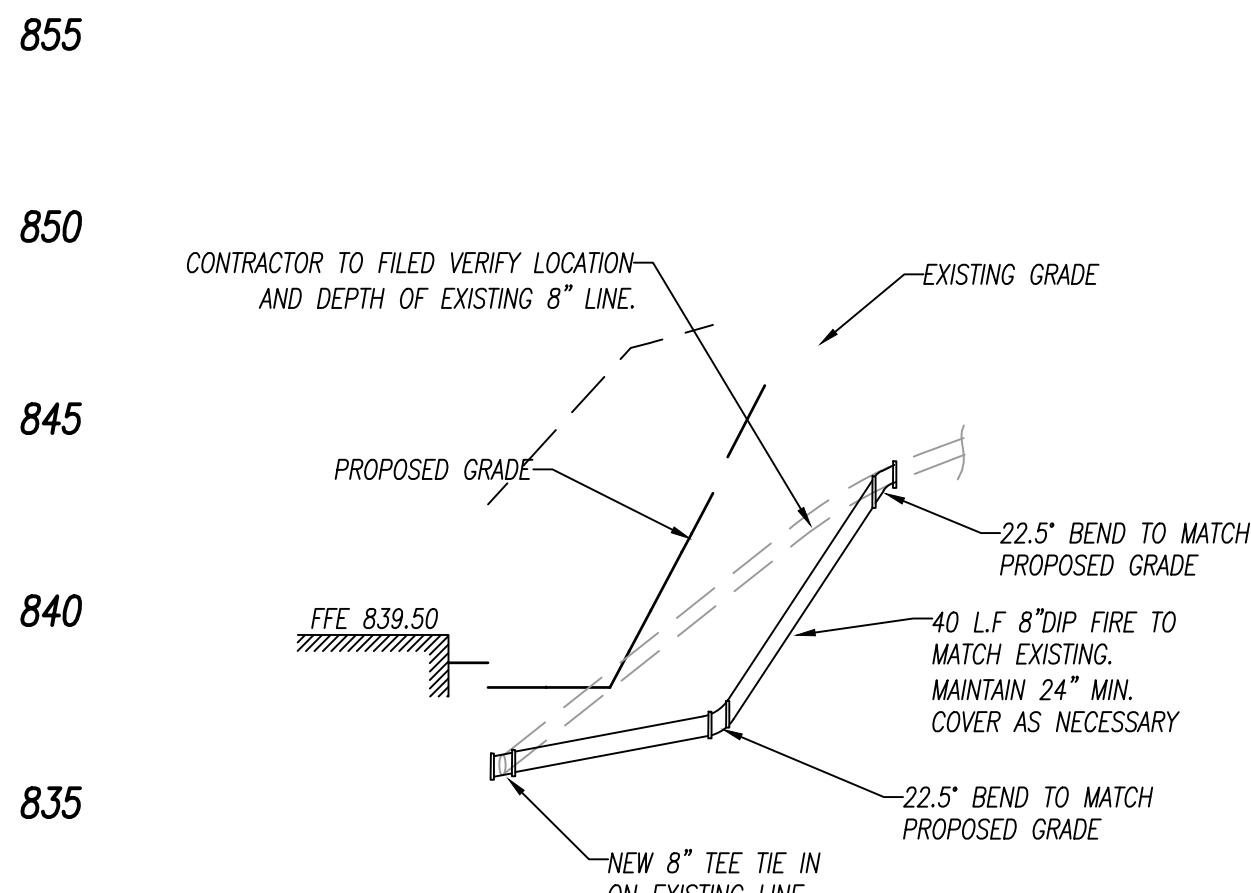
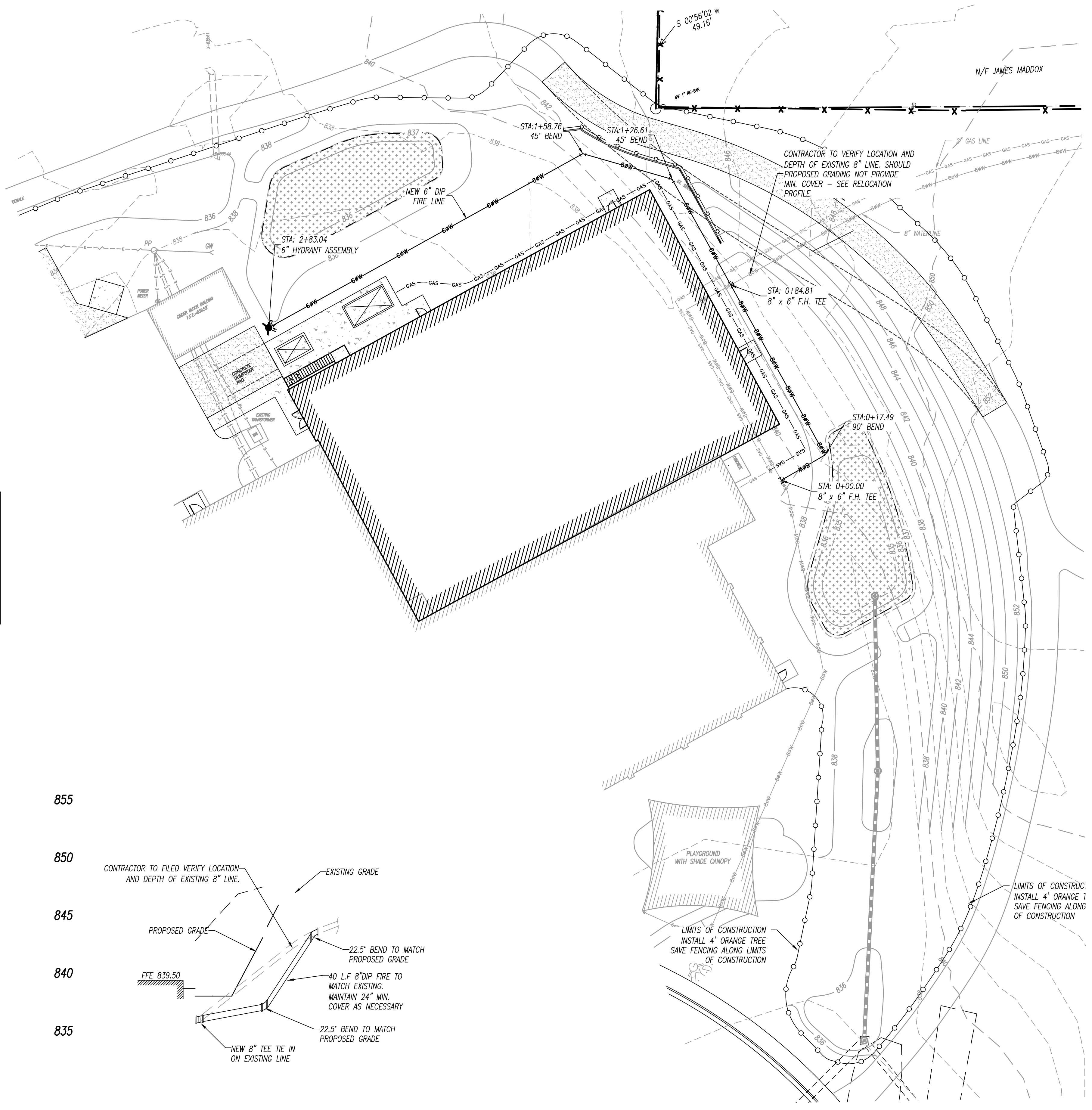
THE CONSTRUCTION PLANS SHALL INDICATE UNDERGROUND UTILITIES OR OBSTRUCTIONS THAT ARE KNOWN TO EXIST ACCORDING TO THE BEST INFORMATION AVAILABLE. THE DEVELOPER, AS REQUIRED BY GEORGIA LAW 25-9-1, SHALL CALL THE UTILITIES PROTECTION CENTER (UPC) (404-325-5000 OR 1-800-282-7411) AND THOSE UTILITIES, AGENCIES OR DEPARTMENTS THAT OWN AND/OR OPERATE UTILITIES IN THE VICINITY OF THE CONSTRUCTION WORK SITE TO VERIFY THE LOCATION OF THE EXISTING UTILITIES.

ANY ROCKDALE COUNTY INFRASTRUCTURE OR PROPERTY DAMAGED DURING OR AS A RESULT OF CONSTRUCTION OF THIS PROJECT WILL BE REPAIRED OR REPLACED TO THE SATISFACTION OF ROCKDALE COUNTY.

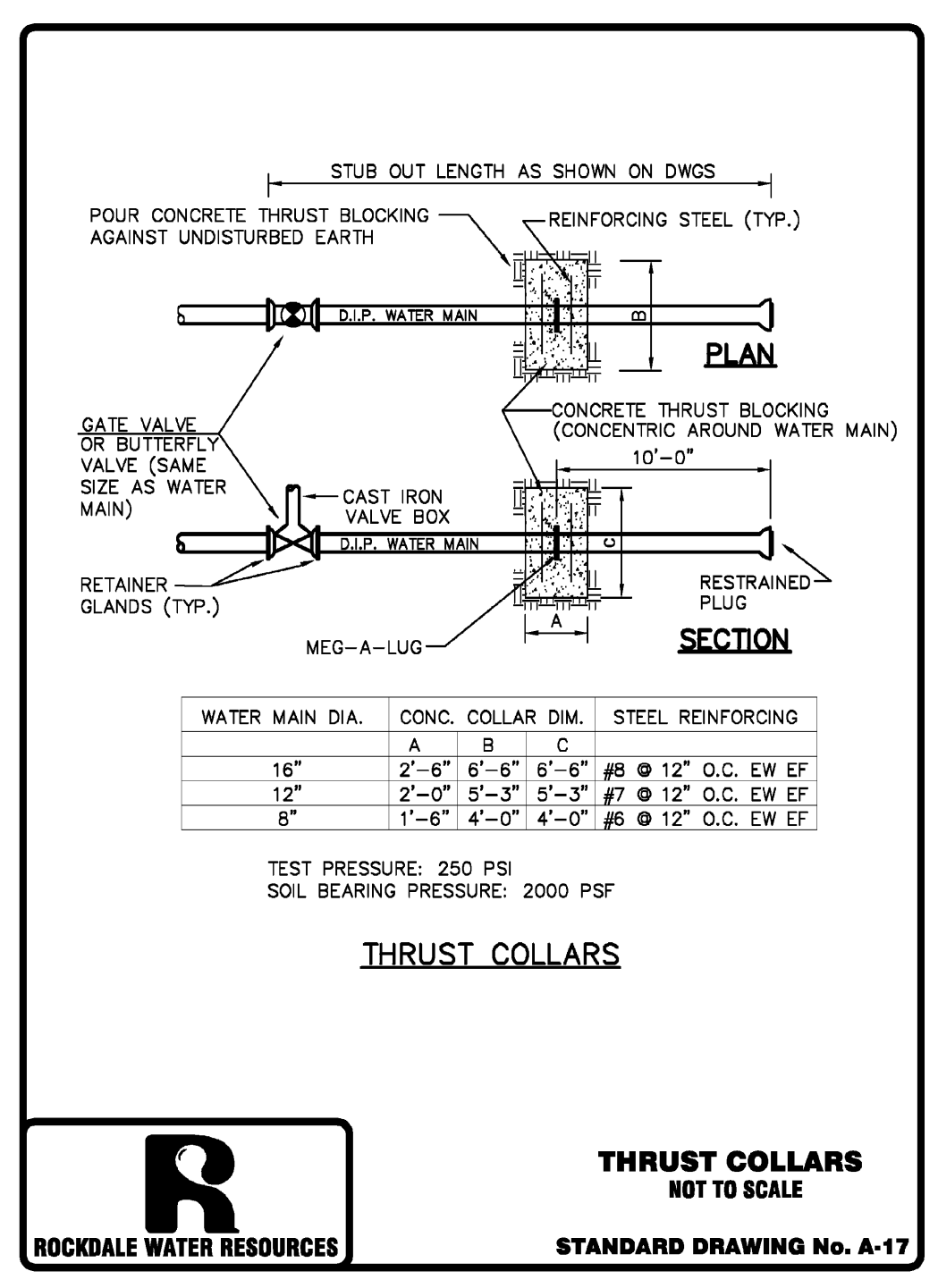
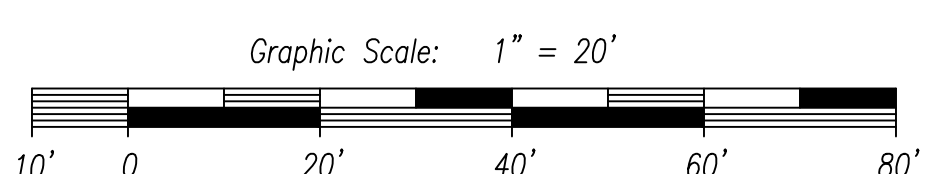
[THIS INCLUDES, FOR EXAMPLE (BUT IS NOT LIMITED TO) PAVING, CURB, CURB/GUTTER, SHOULDERS, DITCHES, STORM DRAINAGE PIPES OR STRUCTURES; SIGNS; WATER DISTRIBUTION LINES OR APPURTENANCES; WATER TREATMENT FACILITIES; FIRE HYDRANTS, VALVES, METERS; WASTEWATER (SANITARY SEWER), COLLECTION LINES OR APPURTENANCES; MANHOLES OR OTHER STRUCTURES; FORCE MAINS; PUMP STATIONS OR APPURTENANCES; LANDSCAPING OR PLANT MATERIALS, INCLUDING MULCH, GRASSING, SHRUBBERY, TREES; STRUCTURES OF ANY NATURE, INCLUDING FENCING.]

ALL CONSTRUCTION TO COMPLY WITH ROCKDALE COUNTY STANDARDS.

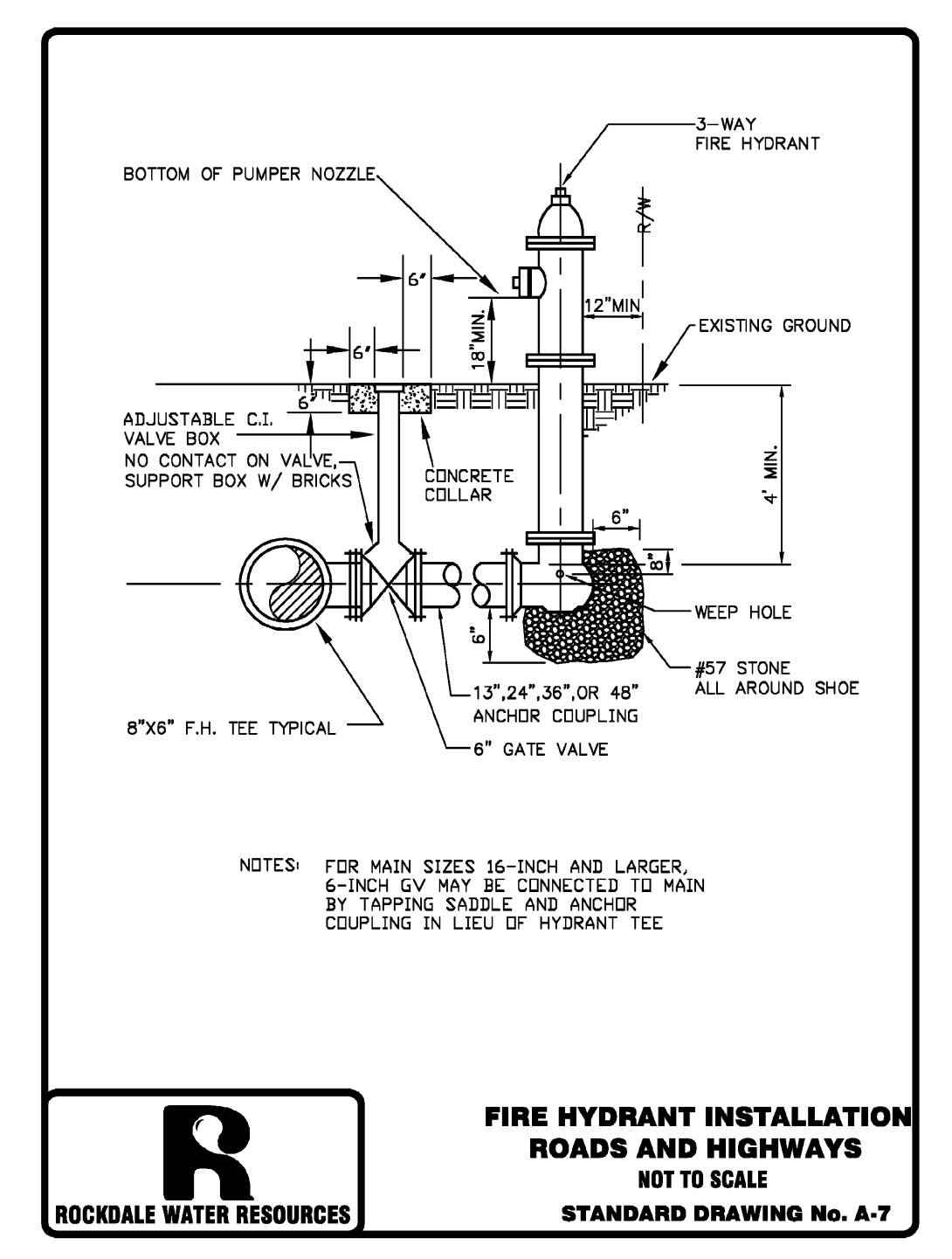
NOTIFY DEVELOPMENT INSPECTIONS 24 HOURS BEFORE BEGINNING OF EVERY PHASE OF CONSTRUCTION. (770) 278-7529



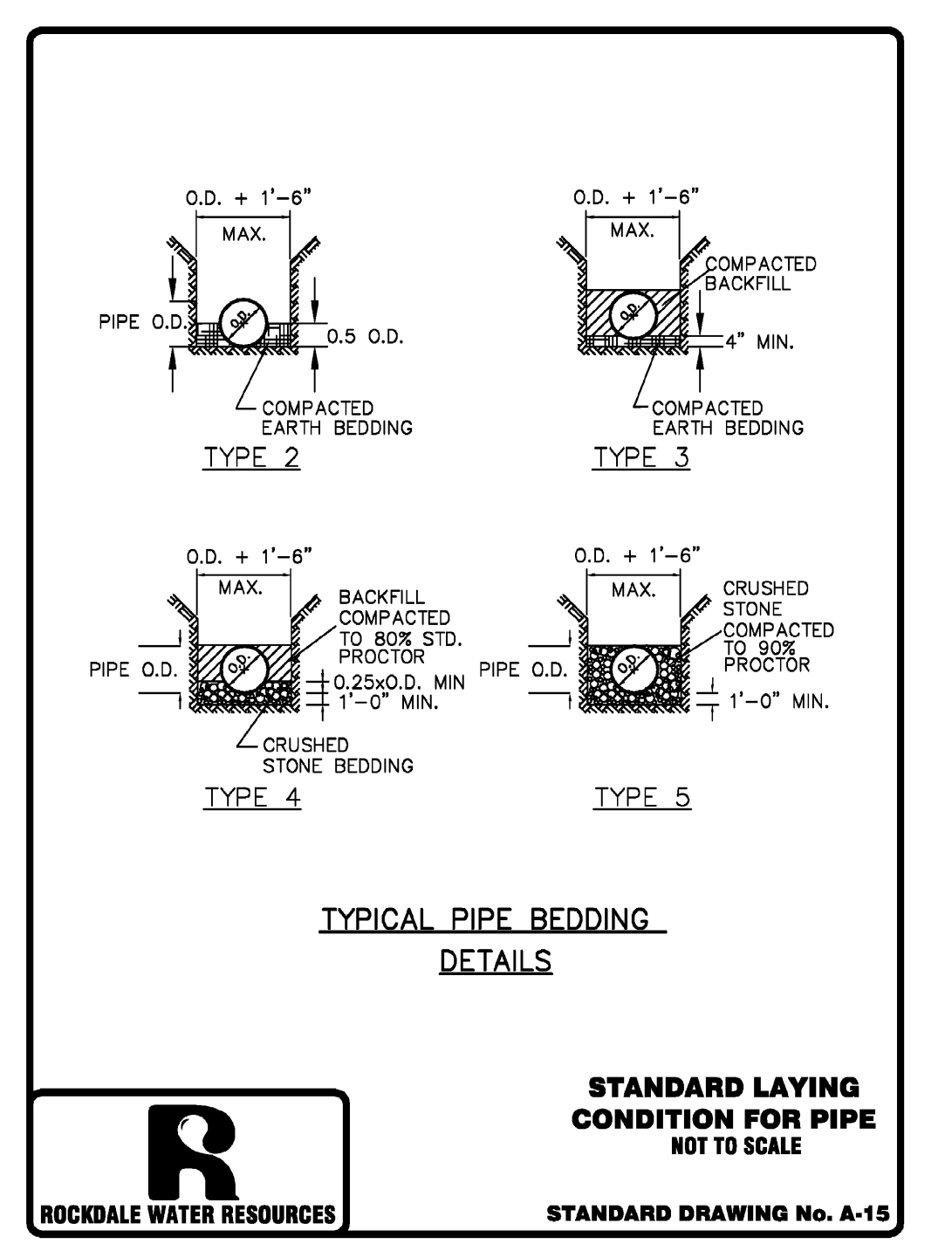
FIRE LINE RELOCATION ALTERNATE



THRUST COLLARS NOT TO SCALE STANDARD DRAWING No. A-17



FIRE HYDRANT INSTALLATION ROADS AND HIGHWAYS NOT TO SCALE STANDARD DRAWING No. A-7



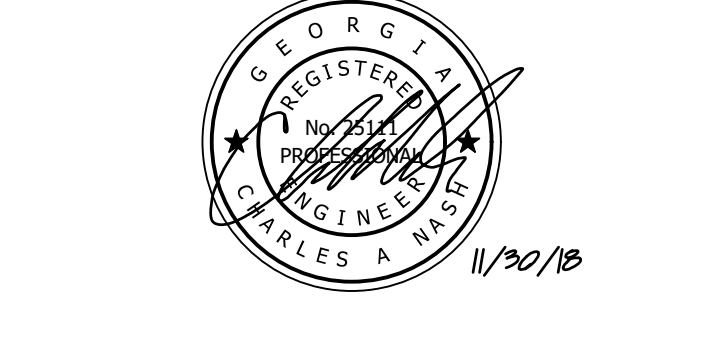
TYPICAL PIPE BEDDING DETAILS STANDARD LAYING CONDITION FOR PIPE NOT TO SCALE STANDARD DRAWING No. A-15

"RESTRAIN PIPE PER RWR STANDARDS". RESTRAINT AT ALL BENDS AND TEES. RODS AND MU FITTING ARE PREFERRED METHOD OF RESTRAINT. SEE SHEET C011 FOR RESTRAINT DETAILS. ALL UTILITY LINES SHALL BE INSTALLED UNDERGROUND.

NOTE: COORDINATE LAYOUT OF PROPOSED BUILDINGS WITH APPROVED ARCHITECTURAL PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH ENGINEER ANY DISCREPANCIES FOUND. NOTE: CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED UNTIL FINAL INSPECTIONS COMPLETED BY ROCKDALE COUNTY WATER AND SEWER DEPARTMENT. NOTE: NOTIFY ROCKDALE COUNTY INSPECTOR 24 HOURS BEFORE THE BEGINNING PHASE OF CONSTRUCTION.

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WAKEFIELD BEASLEY & ASSOCIATES ATLANTA • JACKSONVILLE • PANAMA ABU DHABI • DUBAI • SHANGHAI



JOHNSON PARK GYMNASIUM 1781 EBENEZER ROAD CONYERS, GA 30094

Print Record table with columns for No., Date, and Description. Entries include 2018-09-28 90% CONSTRUCTION DOCUMENTS, 2018-10-26 80% CONSTRUCTION DOCUMENTS, 2018-11-16 100% CONSTRUCTION DOCUMENTS, and 2018-11-30 BID / PERMIT SET.

Revisions table with columns for No., Date, and Description. The table is currently empty.

Date 11/30/18 Job No. 1607008000 Sheet Title UTILITY PLAN Sheet No. C-004 PERMIT SET

PLOTTED

SEDIMENT STORAGE CALCULATIONS:

DISTURBED AREA = 0.90 ACRES
REQUIRED SEDIMENT STORAGE = 67 C.Y. PER ACRE
= 0.90 x 67 = 60.3 C.Y.

SEDIMENT STORAGE PROVIDED PROVIDED BY SILT FENCES:
LENGTH OF SILT FENCE = 360.0 L.F.
MINIMUM HEIGHT OF FENCE (H) = 2.5 L.F. MAXIMUM
DEPTH OF SEDIMENT STORAGE = 1.25 L.F. STORAGE
(1/2 H)

VOLUME PROVIDED PER L.F. OF FENCE = 1.5 CF./L.F. STORAGE

SEDIMENT STORAGE VOLUME PROVIDED = 1.5 CF./L.F. x 360 L.F. = 20.0 C.Y.

SEDIMENT STORAGE PROVIDED PROVIDED BY CHECK DAMS
NUMBER OF CHECK DAMS = 2
SEDIMENT STORAGE PROVIDED AT EACH CHECK DAM = 3.1 C.Y.
SEDIMENT STORAGE VOLUME PROVIDED = 6.2 C.Y. (INTERMEDIATE PHASE)

SEDIMENT STORAGE PROVIDED PROVIDED BY SEDIMENT TRAPS
STORAGE PROVIDED (INITIAL AND INTERMEDIATE) = 52.0 C.Y.

TOTAL SEDIMENT STORAGE PROVIDED = 20.0 C.Y. + 6.2 C.Y. + 52.0 = 78.2 C.Y.

EROSION, SEDIMENT, AND POLLUTION CONTROL GENERAL NOTES

PROJECT NARRATIVE:

PROJECT NAME: JOHNSON PARK GYM ADDITION
SITE ADDRESS/LOCATION: 1781 EBENEZER ROAD SW
CONYERS, GEORGIA 30094
ROCKDALE PARKS AND RECREATION
PO BOX 234
CONYERS, GEORGIA 30012

24-HOUR CONTACT NAME: MR. ANDREW HAMMER
(770) 278-7288
PUBLIC PARK GYM ADDITION

TOTAL PROJECT AREA = ± 50.9 AC.
TOTAL DISTURBED AREA: ± 0.90 AC. (TOTAL)
TOTAL BUFFERED AREA: ± 0.00 AC.

EARTHWORK: NEAT CUT= ±118 C.Y. / NEAT FILL= ±102 C.Y.

PRE-DEVELOPED ESTIMATED RUNOFF COEFFICIENT Cn = 55

POST-DEVELOPED ESTIMATED RUNOFF COEFFICIENT Cn = 79

CONSTRUCTION ENTRANCE LOCATION: LATITUDE: 34°-08'-09" N
LONGITUDE: 84°-00'-17" W

NPDES FEE CALCULATION: EPD: \$40 PER DISTURBED AC. * 0.90 AC. = \$40.00
\$40 PER DISTURBED AC. * 0.90 AC. = \$40.00

PROJECT RECEIVING WATERS: UNNAMED TRIBUTARY TO HONEY CREEK

ALL POST-DEVELOPED STORM WATER FOR THE PROJECT EVENTUALLY DRAINS TO HONEY CREEK. THE RECEIVING WATERS IS A WARM WATER STREAM AND IS NOT LISTED ON THE 2012 IMPAIRED STREAM MONITORING.

DESCRIPTION OF PROPOSED CONSTRUCTION ACTIVITY: THE PROJECT SHALL CONSIST OF THE CLEARING, GRUBBING, GRADING, BUILDING CONSTRUCTION, DRAINAGE AND UTILITY INSTALLATION FOR A PROPOSED ACCESSORY GYM ADDITION.

EXISTING SITE CONDITIONS: THE SUBJECT PROPERTY IS BOUND TO THE EAST BY EBENEZER ROAD, TO THE NORTH / SOUTH AND WEST BY RURAL RESIDENTIAL PROPERTIES. THE SITE CURRENTLY CONSISTS OF EXISTING COMMUNITY CENTER, RECREATION FIELDS AND PARKING AREA. THE EXISTING FACILITY IS CURRENTLY SERVED BY DETENTION FACILITY LOCATED SOUTH WEST OF THE PROPOSED ADDITION.

SOIL EROSION NOTES:

- 1. THE SOIL EROSION AND SEDIMENT CONTROL PROCEDURES AND DETAILS AS SHOWN HEREON AND STIPULATED IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" SHALL BE FOLLOWED AND INSTALLED IN A MANNER SO AS TO MINIMIZE SEDIMENT LEAVING THE SITE.
2. THE CONTRACTOR WILL BE REQUIRED TO INCORPORATE ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES INTO THE PROJECT AT THE EARLIEST PRACTICAL TIME DURING CONSTRUCTION. THE EROSION CONTROL MEASURES DETAILED HEREON SHALL BE COMPLETED PRIOR TO THE PERMANENT DRAINAGE FACILITIES HAVE BEEN CONSTRUCTED AND UNTIL ALL DISTURBED AREAS HAVE BEEN RE-STABILIZED SO AS TO ESTABLISH AN EFFECTIVE EROSION DETERRENT. ALL COLLECTED SEDIMENT REMOVED FROM IMPROVEMENT AREAS SHALL BE EVENLY DISTRIBUTED AND PERMANENTLY STABILIZED.
3. TEMPORARY AND PERMANENT VEGETATIVE COVER SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER VI, SECTION II OF THE MANUAL DESCRIBED IN NOTE NO. 1 ABOVE.
4. EROSION CHECKS SHALL BE CONDUCTED AT THE LOCATION AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS, AND SHALL BE CONDUCTED BEFORE ANY GRADING IS ACCOMPLISHED WHATEVER POSSIBLE AND AS SOON AS PRACTICAL OTHERWISE, ALL GRADED AREAS, SLOPES, ETC. WHICH DRAIN TOWARD THE EROSION CHECKS SHALL BE GRESSED OR STABILIZED WITH STRAW MULCH IMMEDIATELY AFTER GRADING. THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN THE INTEGRITY AND EFFECTIVENESS OF ALL EROSION CHECKS UNTIL ALL DISTURBED AREAS ARE RE-STABILIZED. THE EXTENT AND LOCATION OF EROSION CHECKS INDICATED ON THE PLANS IS THE ESTIMATED NUMBER REQUIRED. ADDITIONAL EROSION CHECKS MAY BE NECESSARY DEPENDING ON ACTUAL FIELD CONDITIONS AND SHALL BE INSTALLED WHEN DIRECTED BY THE GOVERNING AUTHORITY. WHEN THE PERMANENT DRAINAGE STRUCTURES HAVE BEEN INSTALLED AND ALL DISTURBED AREAS HAVE BEEN RE-STABILIZED ADEQUATELY TO BE AN EFFECTIVE EROSION DETERRENT, EROSION CHECKS SHALL BE REMOVED AND ALL BARE SPOTS SHALL BE PERMANENTLY STABILIZED.
5. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED ONLY AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY AFTER ON-SITE INSPECTION BY THE OWNER OR HIS REPRESENTATIVE.
6. ALL CUT AND FILL SLOPES SHALL BE SURFACED ROUGHENED AND VEGETATED WITHIN (7) DAYS AFTER GRADING IS COMPLETED.
7. ALL FILL SLOPES WILL HAVE SILT FENCE AT THE TOE OF SLOPES.
8. NO CONSTRUCTION SHALL BE CONDUCTED WITHIN A 50 FOOT BUFFER ALONG THE BANKS OF ALL STATE WATERS, AS MEASURED HORIZONTALLY FROM THE POINT WHERE VEGETATION IS INSTALLED BY NORMAL STREAM FLOW OR WAVE ACTION.
9. THIS SITE CONTAINS WETLAND AREAS WITHIN THE PROJECT BOUNDARY, BUT OUTSIDE THE LIMITS OF DISTURBANCE.
10. THE EXTENT AND LOCATION OF EROSION CONTROL MEASURES SHOWN ARE THE ESTIMATED REQUIRED. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DUE TO ACTUAL FIELD CONDITIONS, AND WILL BE INSTALLED AT CONTRACTOR'S EXPENSE WHEN DIRECTED BY THE OWNER OR HIS REPRESENTATIVE.
11. MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE CONTRACTOR.
12. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
13. A PORTION OF THE SUBJECT PROPERTY LIES WITHIN A 100-YEAR FLOOD PLAIN AS DESIGNATED ON F.L.R.M. FLOOD PANEL NO. 12150500105, DATED MARCH 4, 2015 GWINNETT COUNTY, GEORGIA.
14. THERE IS NOT A LAKE LOCATED WITHIN 500' OF THIS SITE.
15. THERE ARE STATE WATERS WITHIN 200' OF THIS SITE. (EASTERN RIGHT OF WAY ALONG OF SOUTH GARNETT STREET.)
16. A 50-FOOT UNDISTURBED BUFFER AND A 75-FOOT IMPERVIOUS SETBACK IS TO BE MAINTAINED ADJACENT TO ALL STREAMS.
17. DETENTION POND, DETENTION OUTLET STRUCTURES AND TEMPORARY SEDIMENT POND FEATURES ARE TO BE CONSTRUCTED AND FULLY OPERATIONAL PRIOR TO ANY OTHER CONSTRUCTION OR GRADING.
18. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY VEGETATION OR MULCH IF LAND-DISTURBING ACTIVITIES CEASE FOR MORE THAN 14 CALENDAR DAYS.
19. CONCENTRATED FLOW AREAS AND ALL SLOPES STEEPER THAN 2.5:1 WITH A HEIGHT OF TEN FEET OR GREATER SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKET.
20. THE PROFESSIONAL WHO SEALS THIS PLAN CERTIFIES UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREON BY THE PROFESSIONAL OR THE PROFESSIONAL'S AUTHORIZED AGENT, UNDER THE PROFESSIONAL'S DIRECT SUPERVISION.
21. UPON NOTIFICATION AND AUTHORIZATION OF THE OWNER, THE DESIGN PROFESSIONAL WHO PREPARED THE ESAPC PLAN IS RESPONSIBLE FOR INSPECTING THE INSTALLATION OF THE BMP'S WITHIN 7 DAYS AFTER INITIAL CONSTRUCTION ACTIVITIES BEGINS.
22. THE TOTAL WETLAND ACRES ON SITE ARE 0.00 AC.

CRITICAL AREA STATEMENT AND LOCATIONS:

- 1. THIS SITE CONTAINS CRITICAL AREAS AS IDENTIFIED ON THE EROSION AND SEDIMENT CONTROL PLAN.
2. ALL SLOPES OVER 3:1 SHALL HAVE EROSION CONTROL MATTING.
3. DOUBLE ROWS OF TYPE "C" SILT FENCING WILL BE USED AT THE TOE OF ALL FILL SLOPES AS DESIGNATED ON THE EROSION AND SEDIMENT CONTROL PLAN.
4. THE SITE WILL BE STABILIZED USING MULCHING AND TEMPORARY AND PERMANENT GRASSING. TEMPORARY EROSION CONTROL MEASURES WILL REMAIN UNTIL FINAL STABILIZATION.
5. ALL SLOPES AND FILL AREAS GREATER THAN 6 FEET IN HEIGHT WILL HAVE MB MATTING AND BLANKETS.
6. ALL DISCHARGE PIPING WILL HAVE RAP RAP OUTLET PROTECTION TO DISSIPATE EROSION VELOCITIES.
7. ALL DISTURBED AREAS TO RECEIVE DSI, DSS, AND OSS.
8. CONCENTRATED FLOW AREAS AND ALL SLOPES STEEPER THAN 2.5:1 WITH A HEIGHT OF TEN FEET OR GREATER SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKET.

NPDES GENERAL NOTES:

STABILIZATION MEASURES:

DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY VEGETATION OR MULCH IF LAND-DISTURBING ACTIVITIES CEASE FOR MORE THAN 14 CALENDAR DAYS. (SEE CONSTRUCTION DETAILS FOR DEVICES THAT MAY BE USED AND THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, LATEST EDITION).

IF THE 14TH DAY IS PRECEDED BY ADVERSE WEATHER CONDITIONS, WHICH LIMITS SITE ACCESS OR EQUIPMENT MOBILITY, STABILIZATION SHALL OCCUR AS SOON AS PRACTICAL.

IF CONSTRUCTION ACTIVITIES ARE TO RESUME IN A SITE-SPECIFIC AREA IN LESS THAN 31 DAYS AFTER DATE OF TEMPORARY CEASE OF WORK, THEN THE 14-DAY LIMIT IS WAIVED, IMMEDIATE STABILIZATION SHALL OCCUR UPON THE 21ST DAY IF NO MAJOR WORK IS OCCURRING IN THE DEFINED AREA.

PRESERVATION OF NATURAL VEGETATION SHALL OCCUR THROUGHOUT THE SITE WHERE PRACTICAL. SEE LOCATIONS OF BUFFER ZONES AND TREE SHADE AREAS AS IDENTIFIED ON THE CONSTRUCTION PLANS FOR THIS PROJECT.

DAMS SHALL BE RECORDED WHEN MAJOR GRADING OCCURS, WHEN ACTIVITIES CEASE TEMPORARILY OR PERMANENTLY, AND WHEN STABILIZATION MEASURES ARE INITIATED.

STRUCTURAL PRACTICES:

THE STRUCTURAL PRACTICES USED FOR THIS PROJECT INCLUDE A DETAILED EROSION, SEDIMENT AND POLLUTION CONTROL PLAN THAT INCORPORATES THE USE OF TEMPORARY SEDIMENT BASINS, SILT FENCING, CONSTRUCTION EXIT, OUTLET PROTECTION, MATTING BLANKETS, AND TEMPORARY AND PERMANENT VEGETATION.

STRUCTURAL PRACTICES USED TO MINIMIZE OFF-SITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST INCLUDE THE USE OF CONSTRUCTION EXITS AND DUST CONTROL ON DISTURBED AREAS (SEE SHEETS 16 TO 19 FOR DETAILS).

SEDMINT BASINS:

ONE TEMPORARY SEDIMENT BASIN WILL BE UTILIZED FOR THIS PROJECT AS SHOWN ON THE EROSION CONTROL PLANS.

MAINTENANCE OF VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES:

ALL STRUCTURAL BMP'S SHALL BE MAINTAINED IN ACCORDANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" AND ALL SEDIMENT CONTROL DEVICES (EXCEPT SEDIMENT BASINS) INSTALLED SHALL AS A MINIMUM BE CLEARED OF SEDIMENT WHEN ONE-HALF THE CAPACITY, BY HEIGHT, DEPTH, OR VOLUME HAS BEEN REACHED. SEDIMENT BASINS SHALL BE CLEARED OF SEDIMENT WHEN ONE-THIRD THE CAPACITY BY VOLUME HAS BEEN REACHED.

AS A MINIMUM THE CONTRACTOR SHALL COMPLETE THE PERMANENT GRASSING, OR TEMPORARY GRASSING, OR MULCHING, AS APPROPRIATE AND IN ACCORDANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" ON ALL CUT AND FILL SLOPES ON A WEEKLY BASIS DURING GRADING OPERATIONS, EXCEPT PRODUCTS WITH A TOTAL OF 3 ACRES OR LESS OF GRASSING MAY BE TREATED EVERY TWO WEEKS. WHEN CONDITIONS WARRANT, THE ENGINEER MAY REQUIRE MORE FREQUENT INTERVALS FOR THIS WORK. AT A MINIMUM, MULCH SHALL BE PLACED TO PROVIDE TEMPORARY COVER UNTIL VEGETATION CAN BE ESTABLISHED.

STORM WATER MANAGEMENT:

VELOCITY DISSIPATION DEVICES SHALL BE PLACED AT DISCHARGE LOCATIONS AND ALONG THE LENGTH OF ANY OUTFALL CHANNEL FOR THE PURPOSE OF PROVIDING A NON-EROSIVE VELOCITY FLOW FROM THE STRUCTURE TO A WATERCOURSE. OPERATORS, AS DEFINED IN THE NPDES PERMIT REGULATIONS, ARE RESPONSIBLE FOR THE PROPER INSTALLATION AND TIMELY MAINTENANCE OF STORM WATER MANAGEMENT DEVICES TO KEEP THEM IN GOOD AND EFFECTIVE OPERATING CONDITION UP TO FINAL STABILIZATION AND APPROVAL BY THE LOCAL GOVERNING AUTHORITY.

BMP INSPECTIONS:

UPON NOTIFICATION OF THE OWNER, THE DESIGN PROFESSIONAL WHO PREPARED THE ESAPC PLAN IS RESPONSIBLE FOR INSPECTING THE INSTALLATION OF THE BMP'S WITHIN 7 DAYS AFTER INITIAL CONSTRUCTION. A CERTIFICATION LETTER STATING THE RESULTS OF THE INSPECTION SHALL BE PROVIDED AND KEPT ON-SITE.

THE PRIMARY PERMITTEE MUST RETAIN THE DESIGN PROFESSIONAL WHO PREPARED THE PLAN EXCEPT WHEN THE PRIMARY PERMITTEE HAS REQUESTED IN WRITING AND EPD HAS AGREED TO AN ALTERNATE DESIGN PROFESSIONAL, TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERMITTER CONTROL BMP'S WHICH THE DESIGN PROFESSIONAL, DESIGNED WITHIN SEVEN (7) DAYS AFTER INSTALLATION. THE DESIGN PROFESSIONAL SHALL DETERMINE IF THESE BMP'S HAVE BEEN INSTALLED AND ARE BEING MAINTAINED AS DESIGNED. THE DESIGN PROFESSIONAL SHALL REPORT THE RESULTS OF THE INSPECTION TO THE PRIMARY PERMITTEE WITHIN SEVEN (7) DAYS AND THE PERMITTEE MUST CORRECT ALL DEFICIENCIES WITHIN TWO (2) BUSINESS DAYS OF RECEIPT OF THE INSPECTION REPORT FROM THE DESIGN PROFESSIONAL UNLESS WEATHER RELATED SITE CONDITIONS ARE SUCH THAT ADDITIONAL TIME IS REQUIRED.

ANY AMENDMENT TO THE EROSION, SEDIMENT, AND POLLUTION CONTROL PLANS WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HORIZONTAL COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL. REVISIONS OR AMENDMENTS SHOULD BE SUBMITTED TO THE LOCAL ISSUING AUTHORITY FOR REVIEW. AN UPDATED COPY OF THE ESAPC PLAN SHALL BE KEPT ON-SITE.

CONTROLS:

NO WASTE WILL BE DISPOSED OF INTO STORM WATER INLETS OR WATERS OF THE STATE.

HAZARDOUS MATERIALS:

ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LOCKED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF ONCE PER WEEK OR MORE OFTEN IF NECESSARY AND TRASH WILL BE HAULED AS REQUIRED BY LOCAL REGULATIONS. NO CONSTRUCTION WASTE WILL BE BURIED ON-SITE.

ALL PERSONNEL WILL BE INSTRUCTED ON PROPER PROCEDURES FOR WASTE DISPOSAL. A NOTICE STATING THESE PROCEDURES WILL BE POSTED AT THE JOB SITE AND THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

STORAGE LOCATION AND DISPOSAL PROCEDURES FOR CONCRETE TRUCK OR WALKER WASH OUT: CONCRETE TRUCK WASH OUT LOCATION SHALL BE IN A TEMPORARY TRUCK WASH OUT AREA LOCATED ON THE GRESST OF THE ACCESS ROAD. WASH OUT SHALL BE CONTAINED WITHIN A PIT OR TRENCH WITH NO MATERIAL LEAVING THE SITE OR IMPACTING VEGETATED AREAS. DISPOSAL OF MATERIAL SHALL BE ACCOMPLISHED BY EITHER BREAKING THE MATERIAL INTO ACCEPTABLE PIECES AND PLACING IT WITHIN UNCLASSIFIED FILL AREAS AS DIRECTED BY THE ON-SITE GEOTECHNICAL ENGINEER, OR IT SHALL BE DISPOSED OF OFF-SITE IN A STATE APPROVED LANDFILL.

NOTE: THE PROFESSIONAL WHO SEALS THIS PLAN CERTIFIES UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREON BY THE PROFESSIONAL OR THE PROFESSIONAL'S AUTHORIZED AGENT, UNDER THE PROFESSIONAL'S DIRECT SUPERVISION.

MAP UNIT SYMBOL:

Table with 2 columns: MAP UNIT SYMBOL and SOILS SERIES (WITH DESCRIPTION). Rows include MhC2, MhB2, MhC2, MhD2, MhF2 with corresponding soil descriptions like 'Madison gravelly sandy loam, 6 to 10 percent slopes, eroded'.

NOTE: THE PROFESSIONAL WHO SEALS THIS PLAN CERTIFIES UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREON BY THE PROFESSIONAL OR THE PROFESSIONAL'S AUTHORIZED AGENT, UNDER THE PROFESSIONAL'S DIRECT SUPERVISION.

EROSION CONTROL STATEMENTS: THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

NPDES GENERAL NOTES (CONTINUED):

SPILL CLEANUP AND CONTROL PROCEDURES:

- LOCAL, STATE AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.
MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES BUT IS NOT LIMITED TO BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.
SPILL PREVENTION PROCEDURES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE AND FEDERAL REGULATIONS.
FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802.
FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-424-8802.
FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS.
FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1,320 GALLONS OF PETROLEUM IS STORED ON-SITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY OF 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.

EMERGENCY PROCEDURES FOR SPILL OF REPORTABLE QUANTITY OF PETROLEUM PRODUCTS:

ALL PETROLEUM PRODUCTS SHALL BE STORED AND USED IN AN AREA THAT PROVIDES A SECONDARY CONTAINMENT FEATURE. SECONDARY CONTAINMENT STRUCTURE SHALL CONSIST OF FLOOR, WALLS, AND JOINTS AND BE CONSTRUCTED OF A MATERIAL CAPABLE OF ADEQUATELY CONTAINING THOSE FUELS STORED WITHIN. CAPACITY OF THE SECONDARY CONTAINMENT SHALL HAVE A STORAGE VOLUME THAT IS A MINIMUM OF 110% OF THE TOTAL VOLUME CAPACITY OF THE LARGEST PRIMARY CONTAINER STORED WITHIN. RAIN WATER SHALL NOT BE ALLOWED TO COLLECT WITHIN THE SECONDARY CONTAINER AND ADEQUATE COVER SHALL BE PROVIDED TO PREVENT THE INGRESS OF RAIN WATER.

EMERGENCY PROCEDURES FOR SPILLS SHALL BE KEPT IN THE CONSTRUCTION TRAILER INCLUDING EMERGENCY CONTACT NUMBERS. ANY LEAKS OR SPILLS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTAIN, CONTROL, AND REMEDIATE WITH ALL LOCAL, STATE, AND FEDERAL GUIDELINES, ORDINANCES, AND LAWS.

THE CONTRACTOR SHALL LOCATE STORAGE FACILITIES IN AREAS WITH THE LEAST FORESEEABLE IMPACT IF A CATASTROPHIC EVENT SHOULD OCCUR.

PAINT/CHEMICAL STORAGE, CLEANUP AND DISPOSAL:

PAINT AND/OR OTHER CHEMICALS SHALL BE STORED IN SECURED FACILITIES WITH RESTRICTED ACCESS TO EMPLOYEES ONLY. CLEANUP AND DISPOSAL OF THIS MATERIAL SHALL BE ACCORDANCE WITH ALL RECORDED LOCAL AND FEDERAL REQUIREMENTS. ALL DISPOSAL SHALL BE TO APPROVED OFF-SITE WASTE FACILITIES THAT ACCEPT THIS MATERIAL.

HAZARDOUS WASTES:

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE, AND / OR FEDERAL REGULATIONS AND BY THE MANUFACTURER OF SUCH PRODUCTS. THE JOB SITE SUPERINTENDENT, WHO WILL ALSO BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED, WILL INSTRUCT SITE PERSONNEL IN THE PRACTICES. MATERIAL SAFETY DATA SHEETS (MSDS'S) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES THAT IS USED ON THE JOB SITE WILL BE OBTAINED AND USED FOR THE PROPER MANAGEMENT OF POTENTIAL WASTES THAT MAY RESULT FROM THESE PRODUCTS. AN MSDS WILL BE POSTED IN THE IMMEDIATE AREA WHERE EACH PRODUCT IS STORED AND / OR USED AND ANOTHER COPY OF EACH MSDS WILL BE MAINTAINED IN THE ESAPC FILE OF THE JOB SITE CONSTRUCTION TRAILER OFFICE. EACH EMPLOYEE WHO MUST HANDLE A SUBSTANCE WITH HAZARDOUS PROPERTIES WILL BE INSTRUCTED ON THE USE OF MSDS SHEETS AND THE SPECIFIC INFORMATION IN THE APPLICABLE MSDS FOR THE PRODUCT HE / SHE IS USING, PARTICULARLY REGARDING SPILL CONTROL TECHNIQUES.

THE CONTRACTOR WILL IMPLEMENT THE SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN FOUND WITHIN THIS ESAPC AND WILL TRAIN ALL PERSONNEL IN THE PROPER CLEANUP AND HANDLING OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR HAZARDOUS WASTES WILL BE ALLOWED TO COME IN CONTACT WITH STORM WATER DISCHARGES. IF SUCH CONTACT OCCURS, THE STORM WATER DISCHARGE WILL BE CONTAINED ON SITE UNTIL APPROPRIATE MEASURES IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS ARE TAKEN TO DISPOSE OF SUCH CONTAMINATED STORM. IT SHALL BE THE RESPONSIBILITY OF THE JOB SITE SUPERINTENDENT TO PREVENT FROM ALL PERSONNEL IN THE USE OF THE SPCC PLAN.

SANITARY WASTES:

A MINIMUM OF ONE PORTABLE SANITARY UNIT WILL BE PROVIDED FOR EVERY TEN (10) WORKERS ON THE SITE. ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONE TIME PER WEEK BY A LICENSED PORTABLE FACILITY PROVIDER IN COMPLETE COMPLIANCE WITH LOCAL AND STATE REGULATIONS.

ALL SANITARY WASTE UNITS WILL BE LOCATED IN AN AREA WHERE THE LIKELIHOOD OF THE UNIT CONTRIBUTING TO STORM WATER DISCHARGE IS NEGLIGIBLE. ADDITIONAL CONTAINMENT BMP'S MUST BE IMPLEMENTED, SUCH AS GRAVEL BARS OR SPECIALLY DESIGNED PLASTIC 'SNOO' CONTAINERS AROUND THE BASE TO PREVENT WASTES FROM CONTRIBUTING TO STORM WATER DISCHARGES. THE LOCATION OF SANITARY WASTE UNITS MUST BE IDENTIFIED ON THE EROSION CONTROL PLAN GRADING PHASE BY THE CONTRACTOR ONCE THE LOCATIONS HAVE BEEN DETERMINED.

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ANTICIPATED ACTIVITY SCHEDULE. 24 WEEK SCHEDULE (JANUARY 2018 - JUNE 2018). Gantt chart showing construction phases like 'INSTALLATION OF CONSTRUCTION EXIT, PERMETER SILT FENCE AND TREE PROTECTION FENCE', 'CLEARING AND GRUBBING', 'PRELIMINARY GRADING', 'CONSTRUCTION OF SEDIMENT BASINS, RETRO-FIT', 'INSTALL GRADING PHASE EROSION MEASURES', 'MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES', 'INSTALLATION OF UTILITY LINES (SS/WATER/STORM)', 'CONSTRUCT DETENTION FACILITIES', 'CURB & GUTTER AND PAVEMENT', 'FINE GRADING', 'FINAL LANDSCAPING', 'REMOVE TEMPORARY EROSION MEASURES AND TREE PROTECTION FENCES', 'BUILDING CONSTRUCTION'.

SHEET NAME

FILENAME



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Print Record table with columns: DATE, PERCENTAGE OF CONSTRUCTION DOCUMENTS. Rows: 2018-09-28 50% CONSTRUCTION DOCUMENTS, 2018-10-26 80% CONSTRUCTION DOCUMENTS, 2018-11-16 100% CONSTRUCTION DOCUMENTS, 2018-11-30 BID / PERMIT SET.

Revisions table with columns: No., DATE, DESCRIPTION. Multiple empty rows for recording revisions.

Date and Job No. table. Date: 11/09/18, Job No.: 1607708000.

Sheet Title: EROSION CONTROL NOTES

Sheet No.: C-008
PERMIT SET

PLOTTED SHEET NAME SHEET NAME FILE NAME

Greenstreak Paving Cap Seal Profile #610 - See specifications for additional information.

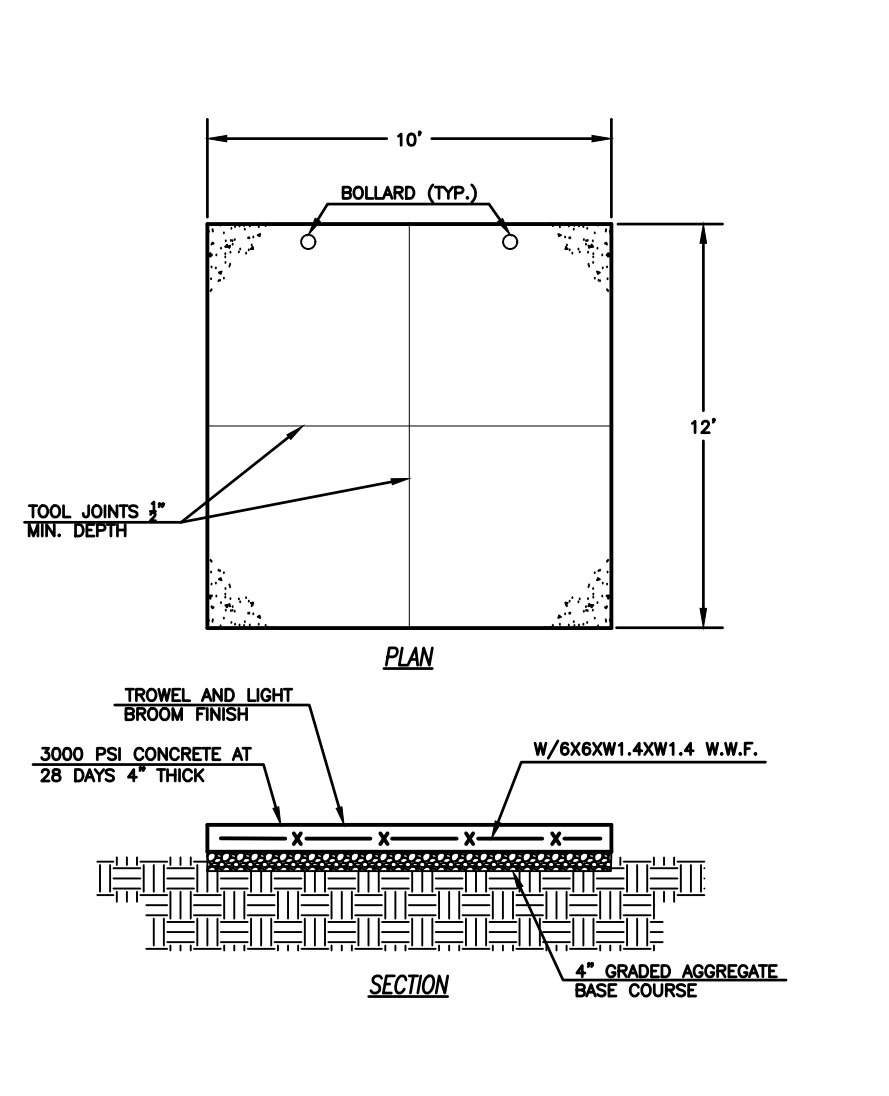
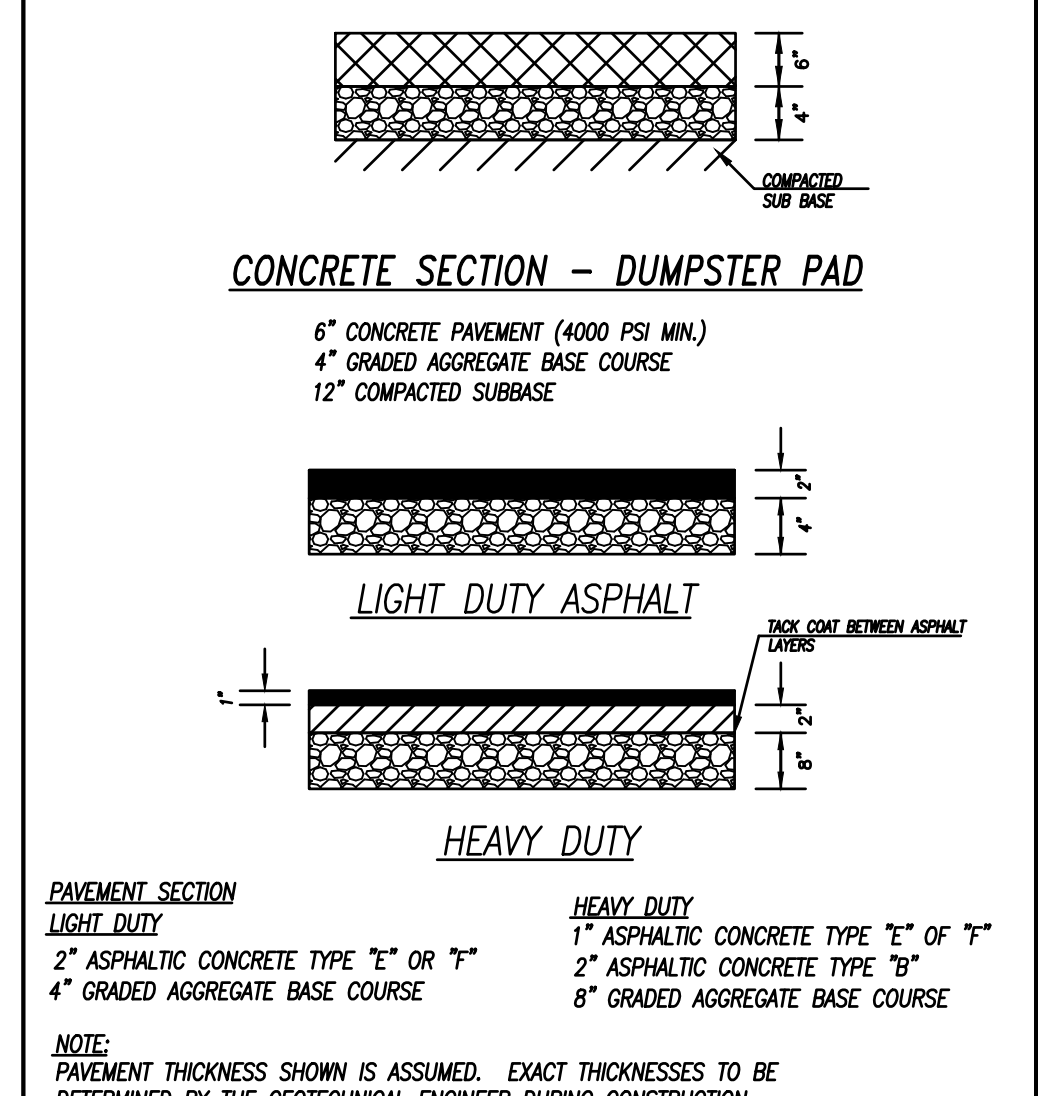
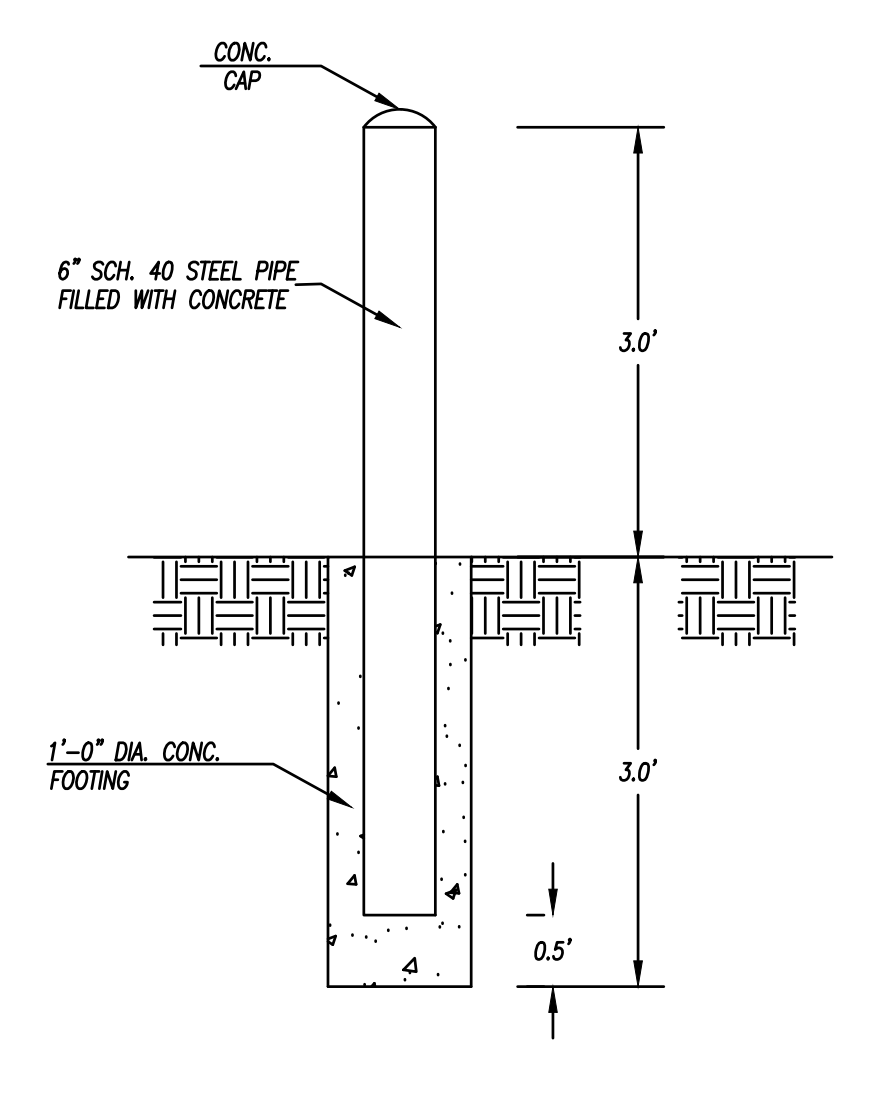
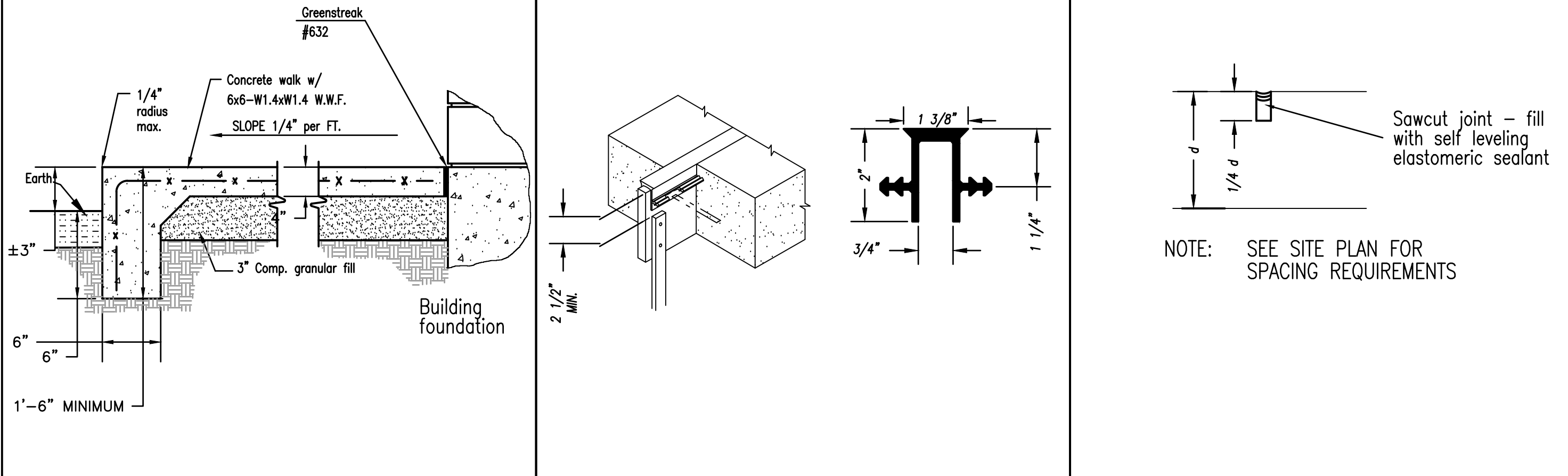


Table with 4 columns: REV, BY, DATE, DESCRIPTION. Title: TYP. WALK SECTION AT BUILDING.

Table with 4 columns: REV, BY, DATE, DESCRIPTION. Title: TYPICAL EXPANSION JOINT.

Table with 4 columns: REV, BY, DATE, DESCRIPTION. Title: TYPICAL CONTROL JOINT.

Table with 4 columns: REV, BY, DATE, DESCRIPTION. Title: TYPICAL BOLLARD DETAIL.

Table with 4 columns: REV, BY, DATE, DESCRIPTION. Title: PAVING SECTION.

Table with 4 columns: REV, BY, DATE, DESCRIPTION. Title: DUMPSTER PAD (10'X12').

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Drop Inlets section including longitudinal and cross-sections for types A through G, and a table of minimum dimensions for drop inlets.

Thrust Restraints section including plan and section A-A views, and tables for thrust restraint dimensions.

Fitting Restraints section including plan and section views, and tables for fitting restraint dimensions.

Tie Rod Chart section including a table of tie rod specifications and design criteria.

JOHNSON PARK GYMNASIUM

1781 EBENEZER ROAD CONYERS, GA 30094

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Table with 2 columns: Year, Percentage. Title: Permit Record.

Revisions

Table with 3 columns: No., Date, Description.

Date 11/30/18 Job No. 160700000

Sheet Title CONSTRUCTION DETAILS

C-011

PERMIT SET

Nyloplast 10" Drain Basin: 2810AG_X. Includes diagrams of typical installations and a table of grate options.

When are inline drains used? Typical installations of inline drains and when are drain basins used? Typical installations of drain basins.

HP Storm Trench Installation Detail. Includes diagrams of trench installation and tables for trench widths and cover requirements.

Footer information including drawing number, scale, and revision details.

GENERAL

- 1. NO PROVISION OF ANY REFERENCED STANDARD SPECIFICATION, MANUAL OR CODE (WHETHER OR NOT SPECIFICALLY INCORPORATED BY REFERENCE IN THE CONTRACT DOCUMENTS) SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND RESPONSIBILITIES OF OWNER, CONTRACTOR, DESIGN PROFESSIONAL, SUPPLIER, OR ANY OF THEIR CONSULTANTS, AGENTS, OR EMPLOYEES FROM THOSE SET FORTH IN THE CONTRACT DOCUMENTS. NOR SHALL IT BE EFFECTIVE TO ASSIGN TO THE DESIGN PROFESSIONAL OF RECORD OR ANY OF THE DESIGN PROFESSIONAL OF RECORD'S CONSULTANTS, AGENTS, OR EMPLOYEES ANY DUTY OR AUTHORITY TO SUPERVISE OR DIRECT THE FURNISHING OR PERFORMANCE OF THE WORK OR ANY DUTY OR AUTHORITY TO UNDERTAKE RESPONSIBILITIES CONTRARY TO THE PROVISIONS OF THE CONTRACT DOCUMENTS.
2. CONTRACT DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO, THE STRUCTURAL DOCUMENTS (DRAWINGS AND SPECIFICATIONS), BUT DO NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR MATERIAL PREPARED AND SUBMITTED BY THE CONTRACTOR.
3. REFERENCE TO STANDARD SPECIFICATIONS OF ANY TECHNICAL SOCIETY, ORGANIZATION, OR ASSOCIATION OR TO CODES OF LOCAL OR STATE AUTHORITIES, SHALL MEAN THE LATEST STANDARD, CODE, SPECIFICATION OR TENTATIVE SPECIFICATION ADOPTED AT THE DATE OF TAKING BIDS, UNLESS SPECIFICALLY STATED OTHERWISE.
4. CONTRACT DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH THE CODE OF PRACTICE OR SPECIFICATIONS OF A.C.I., P.C.I., A.S.C. OR OTHER STANDARDS, WHERE A CONFLICT OCCURS WITHIN THE CONTRACT DOCUMENTS, THE STRICTEST REQUIREMENT SHALL GOVERN.
5. MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE REFERENCED BUILDING CODE.
6. CONTRACTOR SHALL COORDINATE THE STRUCTURAL DOCUMENTS WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DOCUMENTS. DESIGN PROFESSIONAL SHALL BE NOTIFIED OF ANY DISCREPANCY OR OMISSION, FOR DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS SEE THE ARCHITECTURAL DRAWINGS.
7. CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK. DESIGN PROFESSIONAL SHALL BE NOTIFIED OF ANY DISCREPANCY.
8. CONTRACTOR SHALL VERIFY THE STRUCTURALLY SUPPORTED MECHANICAL EQUIPMENT WEIGHTS, OPENING SIZES AND LOCATIONS IDENTIFIED ON THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
9. CONTRACTOR SHALL VERIFY THAT MISCELLANEOUS FRAMING SHOWN ON THE STRUCTURAL DRAWINGS FOR MECHANICAL EQUIPMENT, OWNER-FURNISHED ITEMS, PARTITIONS, ETC. IS CONSISTENT WITH THE REQUIREMENTS OF SUCH ITEMS.
10. CONTRACTOR HAS SOLE RESPONSIBILITY FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.
11. THE STRUCTURE IS STABLE ONLY IN ITS COMPLETED FORM. TEMPORARY SUPPORTS REQUIRED FOR STABILITY DURING ALL INTERMEDIATE STAGES OF CONSTRUCTION SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY THE CONTRACTOR.
12. CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.
13. ELECTRONIC DRAWING FILES WILL NOT BE PROVIDED TO THE CONTRACTOR. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.
14. REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE DESIGN PROFESSIONAL DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK ALL SUBMITTALS AND SHOP DRAWINGS BEFORE SUBMITTING TO THE DESIGN PROFESSIONAL. CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS.
15. DETAILS LABELED "TYPICAL" ON THE STRUCTURAL DRAWINGS APPLY TO ALL SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THE TYPICAL DETAILS UNLESS THOSE LOCATIONS ARE SPECIFICALLY DETAILED OTHERWISE.
16. STRUCTURAL DESIGN PROFESSIONAL IS NOT RESPONSIBLE FOR THE DESIGN OF STAIRS, PRE-ENGINEERED METAL BUILDINGS, COLD-FORMED METAL FRAMING, OR OTHER SYSTEMS NOT SHOWN IN THE STRUCTURAL DOCUMENTS. SUCH SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS.

CODE/DESIGN CRITERIA

- 1. STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE FOLLOWING:
INTERNATIONAL BUILDING CODE, 2012 EDITION WITH GEORGIA AMENDMENTS.
2. GRAVITY LOADS
2.1 UNIFORM FLOOR LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE):
GENERAL AREAS 100 PSF
2.2 UNIFORM ROOF LIVE LOADS (REDUCED AS ALLOWED BY THE BUILDING CODE):
ROOF 20 PSF
BASKETBALL GOAL AND EQUIPMENT COORDINATE WITH MANUFACTURER
GROUND SNOW LOAD, Pg 5 PSF
SCOREBOARD 3000 - 4000 LB (COORDINATE WITH MANUFACTURER)
PONDING AND DRIFT EFFECTS HAVE BEEN INCLUDED IN THE DESIGN.
2.3 DEAD LOADS (IN ADDITION TO STRUCTURE SELF-WEIGHT):
ROOF:
ROOFING 5 PSF
INSULATION 5 PSF
MISCELLANEOUS 5 PSF
CEILING/MEP 5 PSF
3. WIND LOADS:
ULTIMATE DESIGN WIND SPEED, VULT = 120 MPH
NOMINAL DESIGN WIND SPEED, VASD = 93 MPH
RISK CATEGORY: III
EXPOSURE C
INTERNAL PRESSURE COEFFICIENT = +/- 0.18
SEE COMPONENT AND CLADDING DESIGN WIND PRESSURE DIAGRAM
4. EARTHQUAKE LOADS:
RISK CATEGORY: III
SEISMIC IMPORTANCE FACTOR: I = 1.25
SHORT PERIOD MAPPED SPECTRAL RESPONSE COEFFICIENT, SS = 0.178
1 SECOND PERIOD MAPPED SPECTRAL RESPONSE COEFFICIENT, S1 = 0.088
SITE CLASS C
SHORT PERIOD DESIGN SPECTRAL RESPONSE COEFFICIENT, SDS = 0.142
1 SECOND PERIOD DESIGN SPECTRAL RESPONSE COEFFICIENT, SD1 = 0.100
SEISMIC DESIGN CATEGORY: B
BASIC SEISMIC-FORCE RESISTING SYSTEM:
GYMNASIUM: STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE, EXCLUDING CANTILEVER COLUMN SYSTEMS.
NATORIUM: ORDINARY REINFORCED MASONRY SHEAR WALLS.
DESIGN BASE SHEAR: 22 KIPS
SEISMIC RESPONSE COEFFICIENT, CS
GYMNASIUM: 0.059
NATORIUM: 0.089
RESPONSE MODIFICATION FACTOR, R
GYMNASIUM: 3
NATORIUM: 2
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
5. UNLESS NOTED OTHERWISE CALCULATED INDIVIDUAL MEMBER DEFLECTIONS (IN INCHES) DO NOT EXCEED THE FOLLOWING:
DEAD LOAD L/240
LIVE LOAD L/180
DEAD + LIVE LOAD L/160
WHERE: L = SPAN LENGTH (IN INCHES) BETWEEN SUPPORTS. FOR CANTILEVERS, L IS TWICE THE LENGTH OF THE CANTILEVER; NOTE THAT THE TOTAL MAXIMUM CALCULATED FLOOR SYSTEM DEFLECTION WILL BE THE SUM OF THE DEFLECTIONS OF THE SUPPORTED ELEMENTS IN A BAY.
THE CALCULATED DEFLECTION FOR INDIVIDUAL MEMBERS SUPPORTING MASONRY DO NOT EXCEED L/600 FOR DESIGN LOADS APPLIED AFTER THE INSTALLATION OF THE MASONRY.
6. SPECIAL INSPECTIONS:
6.1 THE STRUCTURAL TESTING/INSPECTION AGENCY, SEE SPECIFICATION SECTION 014525, WILL PERFORM SPECIAL INSPECTIONS AS REQUIRED BY CHAPTER 17 OF THE BUILDING CODE. MATERIALS AND WORK TO BE INSPECTED INCLUDE CONCRETE, STEEL, AND MASONRY CONSTRUCTION. SEE SPECIFICATION SECTIONS 014525 FOR A COMPLETE LIST OF WORK REQUIRING SPECIAL INSPECTIONS.
6.2 SPECIAL INSPECTION AS REQUIRED BY CHAPTER 17 OF THE BUILDING CODE ARE REQUIRED FOR STRUCTURAL COMPONENTS AND ASSEMBLIES WHICH ARE NOT FABRICATED AT THE CONSTRUCTION JOB SITE INCLUDING BUT NOT LIMITED TO JOISTS OF STEEL MATERIALS, STRUCTURAL STEEL FRAMING, AND CLADDING.
6.3 SPECIAL INSPECTION AS REQUIRED BY CHAPTER 17 OF THE BUILDING CODE MAY BE WAIVED FOR ITEMS WHICH ARE PRODUCED ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. APPROVAL SHALL BE BASED UPON REVIEW OF THE FABRICATOR'S WRITTEN PROCEDURAL AND QUALITY CONTROL MANUALS AND BY PERIODIC AUDITING OF FABRICATION PRACTICES BY AN APPROVED SPECIAL INSPECTION AGENCY. THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE CHIEF COMMERCIAL BUILDING INSPECTOR OR HIS DESIGNEE WHICH STATES THAT THE FABRICATION WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.
6.4 THE PROJECT OWNER WILL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PERFORM INSPECTIONS AS REQUIRED BY CHAPTER 17 OF THE BUILDING CODE DURING CONSTRUCTION OF THE PROJECT. DOCUMENTATION THAT SUMMARIZES THE QUALIFICATION AND CREDENTIALS OF EACH SPECIAL INSPECTOR AND DEMONSTRATES COMPETENCE FOR INSPECTION OF EACH PARTICULAR TYPE OF CONSTRUCTION REQUIRING SPECIAL INSPECTION SHALL BE SUBMITTED TO THE CHIEF COMMERCIAL BUILDING INSPECTOR OR HIS DESIGNEE FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

- 6.5 APPROVED SPECIAL INSPECTORS SHALL FURNISH INSPECTION REPORTS TO THE CHIEF COMMERCIAL BUILDING INSPECTOR OR HIS DESIGNEE WHICH INDICATE THAT THE WORK INSPECTED WAS DONE IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. A FINAL REPORT WHICH DOCUMENTS THE RESULTS OF THE SPECIAL INSPECTIONS PERFORMED INCLUDING CORRECTION OF ANY DISCREPANCIES IDENTIFIED DURING INSPECTION SHALL BE SUBMITTED PERIODICALLY AT A FREQUENCY APPROVED BY CHIEF COMMERCIAL BUILDING INSPECTOR PRIOR TO CONSTRUCTION.
7. NO PROVISIONS HAVE BEEN MADE FOR FUTURE HORIZONTAL OR VERTICAL EXPANSION.

FOUNDATION

- 1. FOUNDATION DESIGN IS BASED ON THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT PREPARED BY SAME, PROJECT NUMBER 1280-17-023 DATED APRIL 17, 2017. DESIGN PROFESSIONAL IS NOT RESPONSIBLE FOR SUBSURFACE CONDITIONS ENCOUNTERED IN THE FIELD DIFFERENT TO THOSE ASSUMED FOR DESIGN.
2. STRUCTURAL TESTING/INSPECTION AGENCY SHALL CERTIFY THE BEARING MEDIUM.
3. INDIVIDUAL SPREAD FOOTINGS AND CONTINUOUS FOOTINGS SHALL BEAR ON SOIL CAPABLE OF SUPPORTING 3500 PSF.
3.1 NO FOOTINGS SHALL BEAR ON ROCK. UNDERCUT ROCK A MINIMUM OF 2 FEET BELOW BOTTOM OF FOOTING AND REPLACE WITH STRUCTURAL FILL.
4. FOUNDATION WALLS ARE DESIGNED WITH THE FOLLOWING PARAMETER:
AT REST EQUIVALENT FLUID DENSITY 60 PCF
SLIDING COEFFICIENT 0.3
BACKFILL SOIL DENSITY (MINIMUM) 120 PCF
5. PROOF ROLL BUILDING AREAS WITH TWO COMPLETE COVERAGES OF A LOADED DUMP/TRUCK OR SCRAPER. REPLACE SOFT AREAS WITH COMPACTED STRUCTURAL FILL AS REQUIRED BY THE SPECIFICATIONS.
6. STRUCTURAL FILL SHALL CONTAIN NO ORGANIC MATERIAL AND BE APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT. STRUCTURAL FILL UNDER SLABS AND WITHIN 10'-0" OF THE BUILDING FOOTPRINT SHALL BE PLACED IN LIFTS OF THICKNESS DETERMINED BY THE INDEPENDENT TESTING AGENCY AND COMPACTED TO AT LEAST 90% OF ITS STANDARD PROCTOR MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698. THE TOP 12" SUB-BASE UNDER SLABS ON GRADE SHALL BE COMPACTED TO AT LEAST 98% OF ITS STANDARD PROCTOR MAXIMUM DRY DENSITY. ALL BACKFILL, COMPACTED AND PROOF ROLLING OPERATIONS SHALL BE OBSERVED BY AN INDEPENDENT TESTING LABORATORY.
7. SLABS-ON-GRADE SHALL BE PLACED ON A 4" GRANULAR BASE, COMPACTED TO 98% OF ITS STANDARD PROCTOR MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698, AND COVERED WITH A 10 MIL CONTINUOUSLY SEALED VAPOR BARRIER. THE BASE FOR SLABS-ON-GRADE SHALL BE INSPECTED BY A GEOTECHNICAL ENGINEER PRIOR TO EACH PLACEMENT OF CONCRETE.
8. FOOTINGS SHALL BE CENTERED ABOUT COLUMN LINES UNLESS NOTED OTHERWISE.
9. ALL FOOTINGS AND TURN DOWN SLAB EDGES SHALL PENETRATE TO A MINIMUM DEPTH OF 12" BELOW FINISHED GRADE.

REINFORCEMENT

- 1. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.
2. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064 AND HAVE MINIMUM SIDE AND END LAPS OF 8".
3. SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE REINFORCING BAR SIZES AND PLACEMENT. WRITTEN DESCRIPTION OF REINFORCEMENT WITHOUT ADEQUATE SECTIONS, ELEVATIONS, AND DETAILS IS NOT ACCEPTABLE.
4. SPLICES SHALL BE CLASS B IN ACCORDANCE WITH ACI 318. UNLESS NOTED OTHERWISE, REINFORCEMENT SHALL BE SPLICED ONLY AT LOCATIONS SHOWN OR NOTED IN THE STRUCTURAL DOCUMENTS. EXCEPT REINFORCEMENT MARKED "CONTINUOUS" CAN BE SPLICED AT LOCATIONS DETERMINED BY CONTRACTOR. SPLICES AT OTHER LOCATIONS SHALL BE APPROVED IN WRITING BY THE DESIGN PROFESSIONAL.
5. PROVIDE DOWELS FROM FOUNDATIONS THE SAME SIZE AND NUMBER AS THE VERTICAL WALL OR COLUMN REINFORCING, UNLESS NOTED OTHERWISE.
6. PLACE REINFORCEMENT AS FOLLOWS, UNLESS NOTED OTHERWISE:
6.1 CONCRETE REINFORCEMENT COVER
EXPOSED TO EARTH OR WEATHER:
UNFORMED CAST AGAINST EARTH 3" CLEAR
FORMED #6 AND LARGER 2" CLEAR
FORMED #6 AND SMALLER 1-1/2" CLEAR
NOT EXPOSED TO EARTH OR WEATHER:
SLABS 3/4" CLEAR
6.2 MASONRY REINFORCING STEEL SHALL BE PLACED IN THE CENTER OF THE WALL UNLESS NOTED OTHERWISE.
7. REINFORCING STEEL DESIGNATED CONTINUOUS SHALL BE LAPPED AS FOLLOWS:
CONCRETE REINFORCEMENT: CLASS B TENSION LAP
MASONRY REINFORCEMENT: 48 BAR DIAMETERS
8. ADHESIVE FOR REINFORCING DOWELS IN EXISTING CONCRETE SHALL CONFORM TO ASTM C881-02, TYPE IV, GRADE 3, CLASS A, B, & C EXCEPT GEL TIMES AND EPOXY CONTENT. ADHESIVE SHALL CONSIST OF A TWO COMPONENT ADHESIVE SYSTEM CONTAINED IN A MIXING NOZZLE WHICH THOROUGHLY MIXES THE COMPONENTS AS IT IS INJECTED INTO THE HOLE. ADHESIVE SHALL HAVE PASSED ICC EVALUATION SERVICES, INC (ICC-ES) ACCEPTANCE CRITERIA 308 FOR LONG TERM CREEP. ANCHORS INSTALLED IN CONCRETE THAT MAY BECOME CRACKED UNDER SERVICE LOADS SHALL BE EVALUATED BY ICC-ES ACCEPTANCE CRITERIA 308 AND BE SPECIFICALLY APPROVED FOR USE IN CRACKED CONCRETE. CONTACT DESIGN PROFESSIONAL FOR DETERMINATION OF CRACKED OR UNCRACKED CONCRETE CONDITION UNLESS CONDITION IS NOTED ON THE DRAWINGS. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM EMBEDMENT LENGTH SHALL BE 12 BAR DIAMETERS, UNLESS NOTED OTHERWISE.
9. ALL DOWELS AND TERMINATING BARS SHALL HAVE A STANDARD 90 DEGREE HOOK.
10. ALL HORIZONTAL REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL AND/OR CONSTRUCTION JOINTS AND AROUND CORNERS.

CAST-IN-PLACE CONCRETE

- 1. CONCRETE WORK SHALL CONFORM TO ACI 318 AND CRSI STANDARDS.
2. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM SPECIFIED 28-DAY COMPRESSIVE STRENGTH:
2.1 NORMAL WEIGHT STRUCTURAL CONCRETE:
FOOTINGS 3000 PSI
SLABS-ON-GRADE 4000 PSI
2.2 LIGHTWEIGHT STRUCTURAL CONCRETE:
(110-120 PCF FRESH UNIT WEIGHT/107-116 PCF AIR-DRIED UNIT WEIGHT)
SLABS ON STEEL DECK 3500 PSI
3. PIPES OR DUCTS SHALL NOT EXCEED ONE-THIRD THE SLAB OR WALL THICKNESS INCLUDING CROSSING UNLESS SPECIFICALLY DETAILED IN THE STRUCTURAL DOCUMENTS. ALL PIPES AND DUCTS SHALL BE PLACED IN THE MIDDLE THIRD OF THE SLAB OR WALL THICKNESS UNLESS SPECIFICALLY DETAILED OTHERWISE IN THE STRUCTURAL DOCUMENTS. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION OF SLEEVES, ACCESSORIES, ETC.
4. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, CLIPS OR GROUNDS REQUIRED TO BE ENCASED IN CONCRETE AND FOR LOCATION OF FLOOR FINISHES AND SLAB DEPRESSIONS.
5. CONSTRUCTION JOINT LOCATIONS SHALL BE APPROVED BY THE DESIGN PROFESSIONAL. NO HORIZONTAL CONSTRUCTION JOINTS ARE PERMITTED EXCEPT THOSE SHOWN ON THE STRUCTURAL DRAWINGS.
6. DEFECTIVE AREAS IN CONCRETE INCLUDING, BUT NOT LIMITED TO, HONEY-COMBING, SPALLS, AND CRACKS WITH WIDTHS EXCEEDING 0.016 INCH SHALL BE REPAIRED. EXTENT OF DEFECTIVE AREA TO BE DETERMINED BY THE DESIGN PROFESSIONAL.

CONCRETE MASONRY

- 1. MINIMUM 28-DAY COMPRESSIVE STRENGTH OF CONCRETE MASONRY SHALL BE FM = 1500 PSI.
2. MORTAR SHALL COMPLY WITH THE BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY AND SHALL BE OF THE FOLLOWING TYPE:
WALLS BELOW GRADE TYPE M
BEARING WALLS TYPE M OR S
3. CONCRETE MASONRY UNITS SHALL BE GROUTED WITH 2500 PSI COARSE GROUT AS SHOWN IN THE STRUCTURAL DOCUMENTS. GROUT FOR REINFORCED AND NONREINFORCED MASONRY SHALL CONFORM TO ASTM C476.
4. PROVIDE HORIZONTAL JOINT REINFORCEMENT WITH NO. 9 GAGE LONGITUDINAL WIRES AT 16" O/C VERTICALLY, UNLESS NOTED OTHERWISE. PROVIDE SPECIAL ACCESSORIES FOR CORNERS, INTERSECTIONS, ETC.
5. PROVIDE CONTROL JOINTS IN ALL CONCRETE MASONRY WALLS AT LOCATIONS APPROVED BY THE DESIGN PROFESSIONAL AT A MAXIMUM SPACING OF 3 TIMES THE WALL HEIGHT OR 40'-0", WHICHEVER IS LESS.
6. SUBMIT WRITTEN CONSTRUCTION PROCEDURES PRIOR TO THE START OF MASONRY CONSTRUCTION.
7. MINIMUM VERTICAL WALL REINFORCEMENT SHALL BE #5 @32" O.C. UNLESS NOTED OTHERWISE.
8. SUBMIT SHOP DRAWINGS FOR MASONRY REINFORCEMENT IN ACCORDANCE WITH SPECIFICATION SECTION 032000.

STRUCTURAL STEEL

- 1. STRUCTURAL STEEL SHALL CONFORM TO ASTM A992, UNLESS NOTED OTHERWISE.
STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500, GRADE B.
CONNECTION MATERIAL SHALL CONFORM TO ASTM A36, UNLESS NOTED OTHERWISE.
2. BOLTS AND ANCHORS:
2.1 BOLTED CONNECTIONS SHALL BE TYPE N (BEARING TYPE WITH THREADS INCLUDED IN SHEAR PLANE) WITH MINIMUM 3/4" DIAMETER (UNO) A325 BOLTS. SUBMIT PROPOSED BOLT TIGHTENING PROCEDURE FOR REVIEW.
2.2 ANCHOR BOLTS SHALL BE HEADED BOLTS CONFORMING TO ASTM F1554 AND SHALL BE HEADED RODS OR THREADED RODS WITH HEAVY HEXAGONAL NUT WELDED TO THE BOTTOM OF THE THREADED ROD, GRADE A36, UNLESS NOTED OTHERWISE.
2.3 EXPANSION ANCHORS SHALL HAVE BEEN EVALUATED BY THE ICC EVALUATION SERVICES, INC (ICC-ES) WITH A PUBLISHED EVALUATION REPORT. ANCHORS INSTALLED IN CONCRETE THAT MAY BECOME CRACKED UNDER SERVICE LOADS SHALL BE EVALUATED BY ICC-ES ACCEPTANCE CRITERIA 193 AND BE SPECIFICALLY APPROVED FOR USE IN CRACKED CONCRETE. CONTACT DESIGN PROFESSIONAL FOR DETERMINATION OF CRACKED OR UNCRACKED CONCRETE CONDITION UNLESS CONDITION IS NOTED ON THE DRAWINGS. ALL ANCHORS SHALL BE APPROVED FOR RESISTING WIND AND SEISMIC LOADS. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM EMBEDMENT SHALL BE EQUAL TO 4.5 TIMES THE ANCHOR DIAMETER, UNLESS NOTED OTHERWISE.
2.4 ADHESIVE ANCHORS SHALL CONSIST OF AN ALL-THREAD STEEL ANCHOR WITH ADHESIVE CONFORMING TO ASTM C881-02, TYPE IV, GRADE 3, CLASS A, B, & C EXCEPT GEL TIMES AND EPOXY CONTENT. ADHESIVE SHALL CONSIST OF A TWO COMPONENT ADHESIVE SYSTEM CONTAINED IN SIDE BY SIDE PACKAGING CONNECTED TO A MIXING NOZZLE WHICH THOROUGHLY MIXES THE COMPONENTS AS IT IS INJECTED INTO THE HOLE. ADHESIVE SHALL HAVE PASSED ICC EVALUATION SERVICES, INC (ICC-ES) ACCEPTANCE CRITERIA 308 FOR LONG TERM CREEP. ANCHORS INSTALLED IN CONCRETE THAT MAY BECOME CRACKED UNDER SERVICE LOADS SHALL BE EVALUATED BY ICC-ES ACCEPTANCE CRITERIA 308 AND BE SPECIFICALLY APPROVED FOR USE IN CRACKED CONCRETE. CONTACT DESIGN PROFESSIONAL FOR DETERMINATION OF CRACKED OR UNCRACKED CONCRETE CONDITION UNLESS CONDITION IS NOTED ON THE DRAWINGS. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM EMBEDMENT SHALL BE EQUAL TO 4.5 TIMES THE ANCHOR DIAMETER, UNLESS NOTED OTHERWISE.
3. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED ACCORDING TO BOTH THE AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
4. SUBMIT SHOP DRAWINGS WHICH ADEQUATELY DEPICT THE STRUCTURAL ELEMENTS AND CONNECTIONS SHOWN IN THE CONTRACT DOCUMENTS. CONNECTIONS SHALL BE DETAILED BASED ON THE DESIGN INFORMATION PROVIDED IN THE CONTRACT DOCUMENTS. CONNECTIONS SHALL BE DESIGNED FOR THE SERVICE LOAD REACTION OF 10 KIPS UNLESS SHOWN OTHERWISE ON THE STRUCTURAL DRAWINGS. FOR STEEL MEMBERS WHOSE REACTIONS ARE NOT SHOWN, THE DESIGN REACTION SHALL BE OBTAINED FROM THE TABLES ENTITLED "MAXIMUM TOTAL UNIFORM LOAD" IN PART 3 OF THE AISC "MANUAL OF STEEL CONSTRUCTION", FOURTEENTH (14TH) EDITION. THE DESIGN REACTION IS EQUAL TO HALF THE TABULATED VALUE FOR NONCOMPOSITE BEAMS AND EQUAL TO THE TABULATED VALUE FOR COMPOSITE BEAMS. DEVIATION FROM THE CONNECTION DETAILS DEPICTED IN THE CONTRACT DOCUMENTS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE DESIGN PROFESSIONAL. REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR THE DESIGN AND ADEQUACY OF SUCH CONNECTIONS. DESIGN PROFESSIONAL SHALL BE COMPENSATED BY THE CONTRACTOR FOR THE COST INVOLVED IN THE REDESIGN OF CONNECTIONS FOR THE CONVENIENCE OF THE CONTRACTOR. SINGLE ANGLE CONNECTIONS ARE NOT ACCEPTABLE.
5. USE PRE-QUALIFIED WELDED JOINTS IN ACCORDANCE WITH AISC AND THE STRUCTURAL WELDING CODE OF THE AMERICAN WELDING SOCIETY. "NON-PRE-QUALIFIED JOINTS" SHALL BE QUALIFIED PRIOR TO FABRICATION.
6. STRUCTURAL STEEL EXPOSED TO WEATHER SHALL BE GALVANIZED.

STEEL JOISTS

- 1. STEEL JOISTS, BRIDGING, AND THEIR CONNECTIONS SHALL BE DESIGNED, FABRICATED, AND ERECTED ACCORDING TO THE SPECIFICATIONS OF THE STEEL JOIST INSTITUTE (SJI).
2. DESIGN OF STEEL JOISTS, BRIDGING, AND THEIR CONNECTIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. SUBMIT SHOP DRAWINGS SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE. REVIEW OF SHOP DRAWINGS SHALL BE FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS REGARDING ARRANGEMENT AND SIZES OF MEMBERS AND THE CONTRACTOR'S INTERPRETATION OF THE DESIGN LOADS AND CONTRACT DOCUMENT DETAILS. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR THE DESIGN OF THE STEEL JOISTS, BRIDGING AND THEIR CONNECTIONS.
3. CONTRACTOR SHALL COORDINATE THE CONSTRUCTION AND ERECTION OF WALLS, BEAM FRAMING, METAL DECKING, ETC. TO ENSURE COMPATIBILITY OF ROOF AND WALL SYSTEMS CONSIDERING PITCH AND CAMBER OF STEEL JOISTS.

METAL DECK

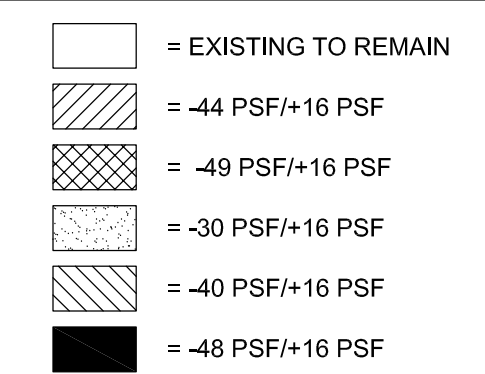
- 1. DECK DESIGN IS BASED ON THE STEEL DECK INSTITUTE DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS AND ROOF DECKS.
2. PROVIDE GALVANIZED ROOF DECK WITH THE FOLLOWING MINIMUM PROPERTIES:
12 INCH DEPTH
22 GAGE THICKNESS
0.186 IN^2/FT SECTION MODULUS
0.156 IN^2/FT MOMENT OF INERTIA
33,000 PSI YIELD STRESS
3. DECK IS SPECIFIED BASED ON A THREE SPAN CONDITION. FURNISH HEAVIER GAGE DECK IF REQUIRED FOR ONE OR TWO SPAN CONDITIONS.
4. FASTEN ROOF DECK TO RESIST A NET UPLIFT OF 12 PSF OR AS INDICATED ON THE DRAWINGS.
5. FASTEN DECK TO RESIST A DIAPHRAGM SHEAR FORCE OF 180 POUNDS PER LINEAR FOOT.

METAL BUILDING SYSTEM

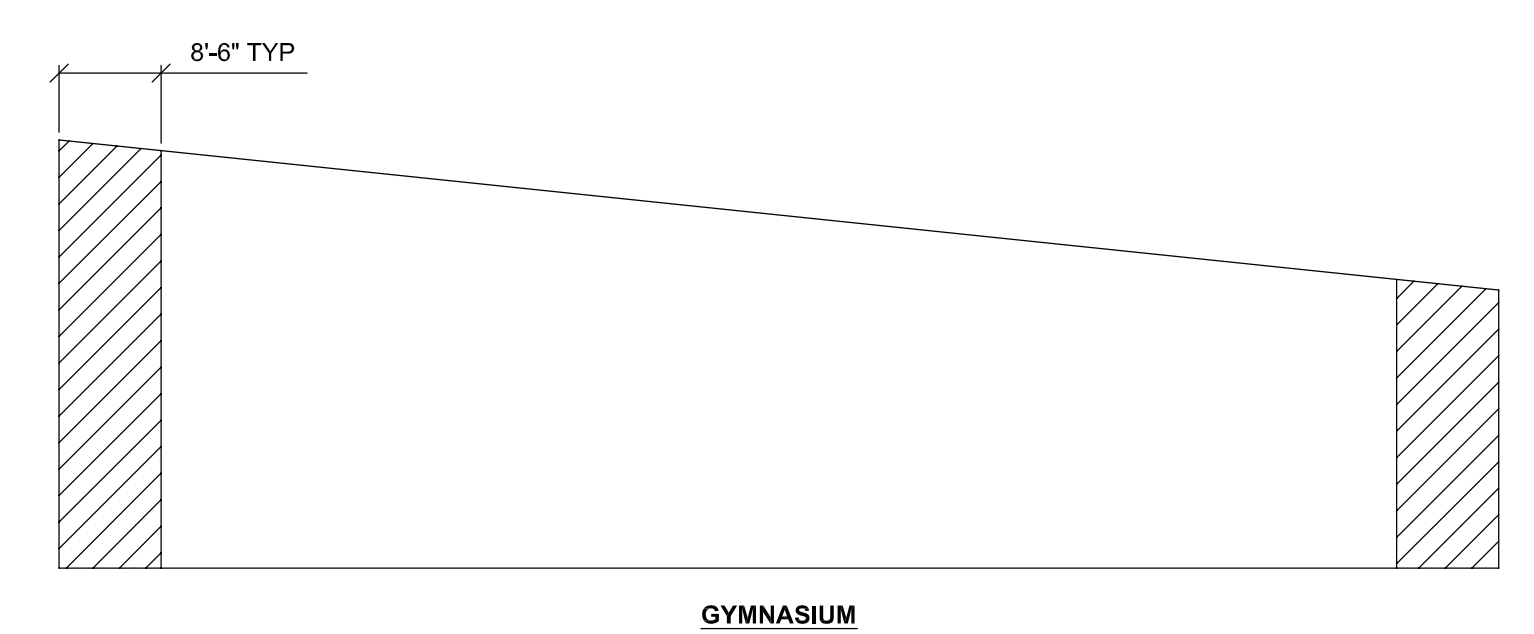
- 1. THE PRE-ENGINEERED BUILDINGS SHOWN ARE SINGLE-SPAN, CONTINUOUS FRAME-TYPE METAL BUILDINGS OF THE NOMINAL LENGTH, WIDTH, EAVE HEIGHT, AND ROOF PITCH INDICATED. EXTERIOR WALLS ARE COVERED WITH FACED AND FINISHED METAL WALL PANELS.
2. SUBMIT COMPLETE STRUCTURAL ANALYSIS AND DESIGN CALCULATIONS, AND FRAME REACTION LOADS FOR THE DESIGN OF FOUNDATIONS. MAIN WIND-FORCE RESISTANCE SYSTEM SHALL BE USED FOR THE DESIGN OF THE PRE-ENGINEERED BUILDING.
3. FOUNDATION HAS BEEN DESIGNED FOR VERTICAL LOAD ONLY. PRE-ENGINEERED BUILDING SHALL BE DESIGNED TO TRANSFER NO MOMENTS TO THE FOUNDATION.
4. PREPARE SHOP DRAWINGS AND CALCULATIONS UNDER SEAL OF A PROFESSIONAL ENGINEER IN THE STATE OF GEORGIA.
5. CERTIFICATION: SUBMIT WRITTEN CERTIFICATION PREPARED AND SIGNED BY A PROFESSIONAL ENGINEER, REGISTERED TO PRACTICE IN GEORGIA, VERIFYING THAT BUILDING DESIGN MEETS INDICATED LOADING REQUIREMENTS AND CODES OF AUTHORITIES HAVING JURISDICTION.
6. STRUCTURAL FRAMING: DESIGN PRIMARY AND SECONDARY STRUCTURAL MEMBERS AND EXTERIOR COVERING MATERIALS FOR APPLICABLE LOADS AND COMBINATIONS OF LOADS IN ACCORDANCE WITH THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) 7 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
7. PRE-ENGINEERED BUILDING MANUFACTURER SHALL PROVIDE ADDITIONAL PURLINS AS REQUIRED TO SUPPORT BASKETBALL BACKSTOPS, SCOREBOARD, AND MOTORIZED CURTAIN. PRE-ENGINEERED MANUFACTURER SHALL COORDINATE LOCATIONS AND LOADS WITH MANUFACTURER OF EACH COMPONENT.
8. STRUCTURAL STEEL: FOR DESIGN OF STRUCTURAL STEEL MEMBERS, COMPLY WITH REQUIREMENTS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION'S (AISC) "SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" FOR DESIGN REQUIREMENTS AND ALLOWABLE STRESSES.
9. WELDED CONNECTIONS: ALL STRUCTURAL WELDED JOINTS SHALL CONFORM TO THE PROVISIONS OF AWS D1.1:10, STRUCTURAL WELDING CODE BY AMERICAN WELDING SOCIETY. THE PROF OF WELDER CERTIFICATION SHALL BE AVAILABLE AT THE JOB SITE DURING TIMES OF INSPECTION.
10. BOLTED CONNECTION: ALL BOLTED CONNECTIONS SHALL BE ASSEMBLED AND INSPECTED IN ACCORDANCE WITH RSCC-2009 (SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS).



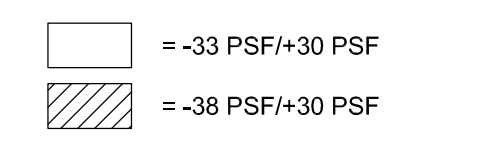
ROOF COMPONENTS AND CLADDING ULTIMATE WIND PRESSURE DIAGRAM



NOTE: WIND PRESSURE BASED ON 50 SQUARE FOOT AREA. NEGATIVE INDICATES PRESSURE AWAY FROM SURFACE

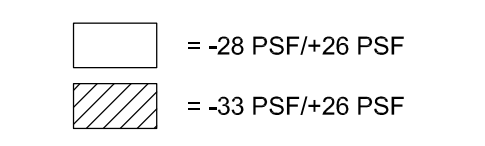


WALL COMPONENTS AND CLADDING ULTIMATE WIND PRESSURE DIAGRAM



NOTE: WIND PRESSURE BASED ON 50 SQUARE FOOT AREA. NEGATIVE INDICATES PRESSURE AWAY FROM SURFACE

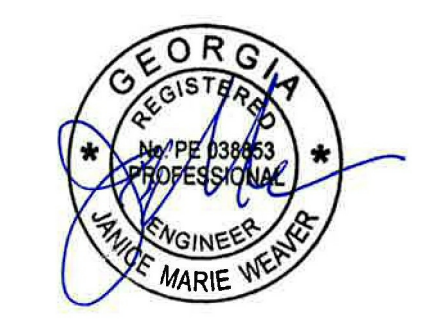
WALL COMPONENTS AND CLADDING ULTIMATE WIND PRESSURE DIAGRAM



NOTE: WIND PRESSURE BASED ON 50 SQUARE FOOT AREA. NEGATIVE INDICATES PRESSURE AWAY FROM SURFACE

WAKEFIELD BEASLEY & ASSOCIATES

A NELSON Company



JOHNSON PARK GYMNASIUM & NATATORIUM EXPANSION

1781 EBENEZER ROAD
CONYERS, GA 30094

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Table with 2 columns: Year, Description. Rows include 2018-09-28 50% CONSTRUCTION DOCUMENTS, 2018-10-26 80% CONSTRUCTION DOCUMENTS, 2018-11-16 100% CONSTRUCTION DOCUMENTS, 2018-11-30 BID / PERMIT SET.

Revisions

Table with 3 columns: No., DATE, DESCRIPTION. Multiple empty rows for revisions.

Drawn By JEM Checked By JMW

Date 05/30/18 Job No. 160700000

Sheet Title

GENERAL NOTES

Sheet No. S-001

RELEASED FOR CONSTRUCTION



3740 David Ct., Suite 100 Peachtree Corners, GA 30092
www.fg-inc.net 770.368.1399

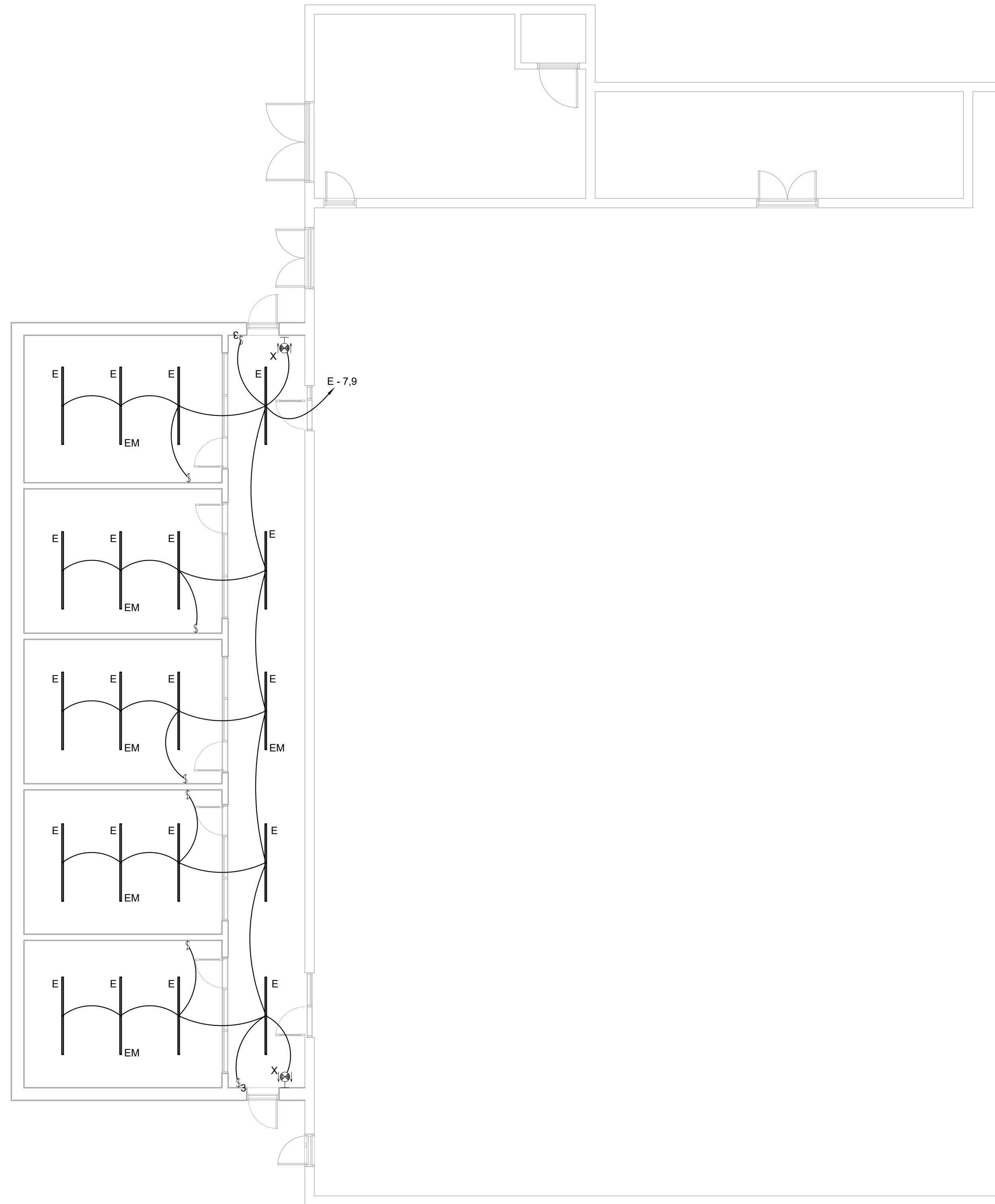
PLOTTED: 11/26/2018 2:01:19 PM

SHEET NAME: LIGHTING PLAN - NATATORIUM & CHANGING ROOM SHEET NUMBER: E-105 PROJECT NAME: JOHNSON PARK GYMNASIUM & NATATORIUM EXPANSION

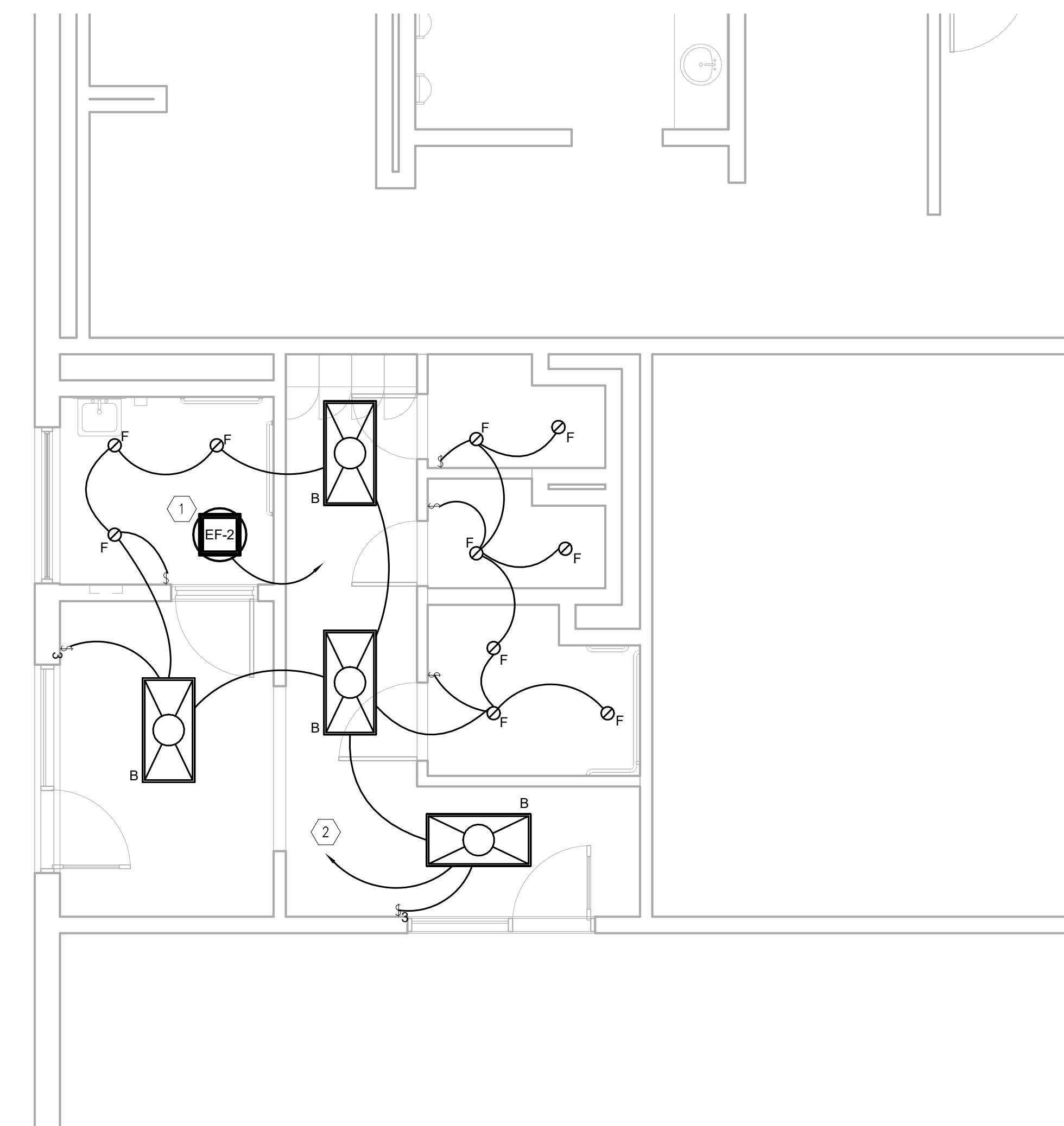
FILENAME: C:\Users\tsobornar\Documents\Bent User Files\112606 - Johnson Park Gym New Central_Isobornar.rvt

KEYED NOTES: (APPLY TO THIS SHEET ONLY)

- ① EXHAUST FAN "EF-2" LOCATED ON ROOF AT THIS LOCATION. CONNECT TO LOCAL 120V RECEPTACLE CIRCUIT.
- ② CONNECT NEW LIGHTING CIRCUIT TO EXISTING CIRCUIT FROM PANEL "C" MADE AVAILABLE AFTER DEMOLITION IN THIS AREA.



1 Lighting Plan - Natatorium Addition
E-105 1/8" = 1'-0"



2 Lighting Plan - Family Changing
E-105 1/4" = 1'-0"

WAKEFIELD BEASLEY & ASSOCIATES

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11/15/2018

JOHNSON PARK GYMNASIUM & NATATORIUM EXPANSION

1781 EBENEZER ROAD
CONYERS, GA 30094

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Print Record

2018-09-28	50% CONSTRUCTION DOCUMENTS
2018-10-26	80% CONSTRUCTION DOCUMENTS
2018-11-16	100% CONSTRUCTION DOCUMENTS
2018-11-30	BID / PERMIT SET

Revisions

No.	DATE	DESCRIPTION



4360 Chamblee Dunwoody Road
Suite 210
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P (770) 451-6757
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Date	06/08/2017	Job No.	1607006000
Sheet Title	LIGHTING PLAN - NATATORIUM & CHANGING ROOM		
Sheet No.	E-105		
PERMIT SET			

LOAD ANALYSIS SUMMARY	
EXISTING SERVICE CAPACITY (1200A @ 208V 3 PHASE)	432.31 KVA
PEAK DEMAND PREVIOUS 12 MONTHS	152.96 KVA
NEC REQUIRED 25% FACTOR	38.24 KVA
ADDITIONAL LOAD THIS PROJECT	185.11 KVA
TOTAL ESTIMATED PEAK DEMAND	376.31 KVA
REMAINING SERVICE CAPACITY AFTER ADDITION	56.00 KVA

Branch Panel: MDP

Location: CORRIDOR 315
Supply From: MDP
Mounting: Surface
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating: 100K
Mains Type:
Mains Rating: 1200 A
MCB Rating:

Notes:
This is an existing panel with available space and capacity to add these additional breakers. Only additions are shown below.

BREAKER #	Circuit Description	Trip	Poles	A	B	C
1	ACU-1	100 A	3	8358 VA	8358 VA	8358 VA
2	D	400 A	3	31846 VA	29208 VA	31797 VA
3	ACU-2	175 A	3	15854 VA	15854 VA	15854 VA
4	E	125 A	3	9844 VA	10035 VA	10417 VA
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
	Total Load:	65725 VA		62761 VA	68040 VA	
	Total Amps:	552 A		523 A	554 A	

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
				Total Conn. Load: 194415 VA
				Total Est. Demand: 188099 VA
				Total Conn. Current: 540 A
				Total Est. Demand Current: 522 A

Branch Panel: D

Location: MECH. 107
Supply From: MDP
Mounting: Surface
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating:
Mains Type:
Mains Rating: 400 A
MCB Rating: 125 A

Notes:
** PROVIDE HACR TYPE BREAKER FOR HVAC EQUIPMENT

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT				
1	Floor Receptacle - Scorer's Table	20 A	1	180...	540 VA			1	20 A	Receptacle	2			
3	Receptacle	20 A	1		180 VA	720 VA		1	20 A	Receptacle	4			
5	Power - SCORE BOARD	20 A	1				500 VA	720...	1	20 A	Receptacle	6		
7	Receptacle	20 A	1	963...	1800...				1	20 A	Receptacle - WEIGHTS	8		
9	Receptacle	20 A	1		1090...	450 VA			1	20 A	Receptacle - WEIGHTS	10		
11	Motor - Court Divider Curtain (Future)	35 A	1				1656...	1920...	1	40 A	Motor - Main Goal #1	12		
13	Lighting - ENTRY / WEIGHTS / STORAGE	20 A	2	0 VA	450 VA				1	20 A	Receptacle - WEIGHTS	14		
15	--	--	--			0 VA	280 VA		2	20 A	Lighting - Exterior	16		
17	Receptacle - WEIGHTS	20 A	1				450 VA	280...	--	--	--	18		
19	Lighting - Gym Ground Floor	20 A	2	457...	720 VA				1	20 A	Receptacle - GYM	20		
21	--	--	--		458 VA	556 VA			2	20 A	Lighting - GYM Ground Floor	22		
23	Receptacles - GYM	20 A	1				720 VA	556...	--	--	--	24		
25	Lighting - GYM High bays / Track	20 A	2	925...	887 VA				2	20 A	Lighting - Interior	26		
27	--	--	--			825 VA	875 VA		--	--	--	28		
29	Lighting - GYM High bays / Track	20 A	2	--	897...	2080...		977 VA	2080...	2	25 A	IWH-1	30	
31	--	--	--						--	--	--	32		
33	HVAC	20 A	2	--		4326...	720 VA		1	20 A	Receptacle - Media Rm	34		
35	--	--	--				0 VA	1500...	1	20 A	WH - Wall Heater	36		
37	Receptacles - TVs	20 A	1	1500...	1800...				1	20 A	Receptacle - WEIGHTS	38		
39	Receptacles - TVs	20 A	1		1500...	1800...			1	20 A	Receptacle - WEIGHTS	40		
41	Receptacles - WEIGHTS	20 A	1				1800...	1920...	1	20 A	Power - SCORE BOARD	42		
43	Motor - Side Goal #3	40 A	1	1920...	1920...				1	40 A	Motor - Main Goal #2	44		
45	Motor - Side Goal #4	40 A	1		1920...	1920...			1	40 A	Motor - Side Goal #1	46		
47	Motor - Side Goal #2	40 A	1				1920...	4326...	2	20 A	HVAC	48		
49	HVAC	20 A	2	4326...	0 VA				2	20 A	HVAC	50		
51	--	--	--			0 VA	4326...					52		
53	PIU-9	20 A	3	--			60 VA	0 VA	--			54		
55	--	--	--	60.3...	667 VA				3	15 A	VAV-1	56		
57	--	--	--			60 VA	667 VA					58		
59	PIU-8	15 A	3	--				1105...	666...			60		
61	--	--	--	1105...	1177...				3	15 A	PIU-7	62		
63	--	--	--			1105...	1177...					64		
65	PIU-2	15 A	3	--				1273...	1177...			66		
67	--	--	--	1273...	1273...				3	15 A	PIU-6	68		
69	--	--	--			1273...	1273...					70		
71	PIU-5	15 A	3	--				1429...	1273...			72		
73	--	--	--	1429...	1850...				3	20 A	PIU-3	74		
75	--	--	--			1429...	1850...					76		
77	PIU-4	20 A	3	--				1850...	1849...			78		
79	--	--	--	1849...	3819...				3	40 A	PIU-1	80		
81	--	--	--			1850...	3819...					82		
83	Space	--	--					0 VA	3819...			84		
	Total Load:	31846 VA		29208 VA		268 A								
	Total Amps:	269 A		243 A		268 A								

Branch Panel: E

Location: CORRIDOR 315
Supply From: MDP
Mounting: Surface
Enclosure: Type 1
Volts: 120/208 Wye
Phases: 3
Wires: 4
A.I.C. Rating:
Mains Type:
Mains Rating: 125 A
MCB Rating: 125 A

Notes:

CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT		
1	Receptacle	20 A	1	540...	720 VA			1	20 A	Receptacle	2	
3	Receptacle	20 A	1		1080...						4	
5						2496...		45 A	HP-2		6	
7	Lighting	20 A	2	900...	2496...						8	
9	--	--	--		900 VA	2912...			2	50 A	HP-1	10
11	OAU-1	60 A	3	--		5572...	2912...	--	--	--	12	
13	--	--	--	5572...							14	
15	--	--	--		5572...						16	
17											18	
19											20	
21											22	
23											24	
25											26	
27											28	
29											30	
	Total Load:	9844 VA		10035 VA		10417 VA						
	Total Amps:	82 A		84 A		87 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	26187 VA	100.00%	26187 VA	Total Conn. Load: 30215 VA
Receptacle	2340 VA	100.00%	2340 VA	Total Est. Demand: 30215 VA
				Total Conn.: 84 A
				Total Est. Demand: 84 A

Notes:

Lighting Fixture Schedule

MARK	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMP TYPE	LUMENS	COLOR TEMPERATURE	EFFICACY	FIXTURE COLOR	VOLTAGE	WATTAGE	COMMENTS
A	HIGH BAY	ORACLE	CB2-LED-13000L-DIM10-MVOLT-W-40K-85-SFWLWGDF	LED	13000 lm	4000 K	36 lm/W	WHITE	208 V	110 W	SUSPEND FIXTURE AT 19' AFF TO BOTTOM OF FIXTURE. INSURE FIXTURE IS ORDERED WITH WIRE GUARD AS INDICATED IN CATALOG NUMBER.
B	2' X 4' LAY-IN	LITHONIA LIGHTING	2GTL440LLP840	LED	4290 lm	4000 K	110 lm/W	WHITE	208 V	38.9 W	
C	4' INDUSTRIAL STRIP	LITHONIA LIGHTING	MNSL MV M6	LED	2100 lm	4000 K	88 lm/W	WHITE	208 V	24 W	
D	EXTERIOR WALL PACK	LITHONIA LIGHTING	CSXW LED 30C 700 40K T3M MVOLT	LED	6981 lm	3500 K	101 lm/W	BRONZE	208 V	69 W	MOUNT FIXTURE TO MATCH EXISTING FIXTURE HEIGHTS ON EXISTING BUILDING
E	8' INDUSTRIAL STRIP	LITHONIA LIGHTING	MNSL MV M6	LED	8200 lm	4000 K	91 lm/W	WHITE	208 V	90 W	
F	6" DOWNLIGHT	LITHONIA LIGHTING	LDN6-40-30-L06 MVOLT	LED	3000 lm	4000 K	86 lm/W	WHITE	208 V	35 W	
G	LINEAR SUSPENDED STRIP	LITHONIA LIGHTING	CDS-L48-MVOLT-DM-40K	LED	4211 lm	4000 K	110 lm/W	WHITE	208 V	21 W	
X	LED EXIT SIGN	LITHONIA LIGHTING	LRP-1-RMR-120/277-ELN	LED	0 lm	4000 K	0 lm/W	WHITE	208 V	2.3 W	

Mechanical Equipment Electrical Connection Schedule

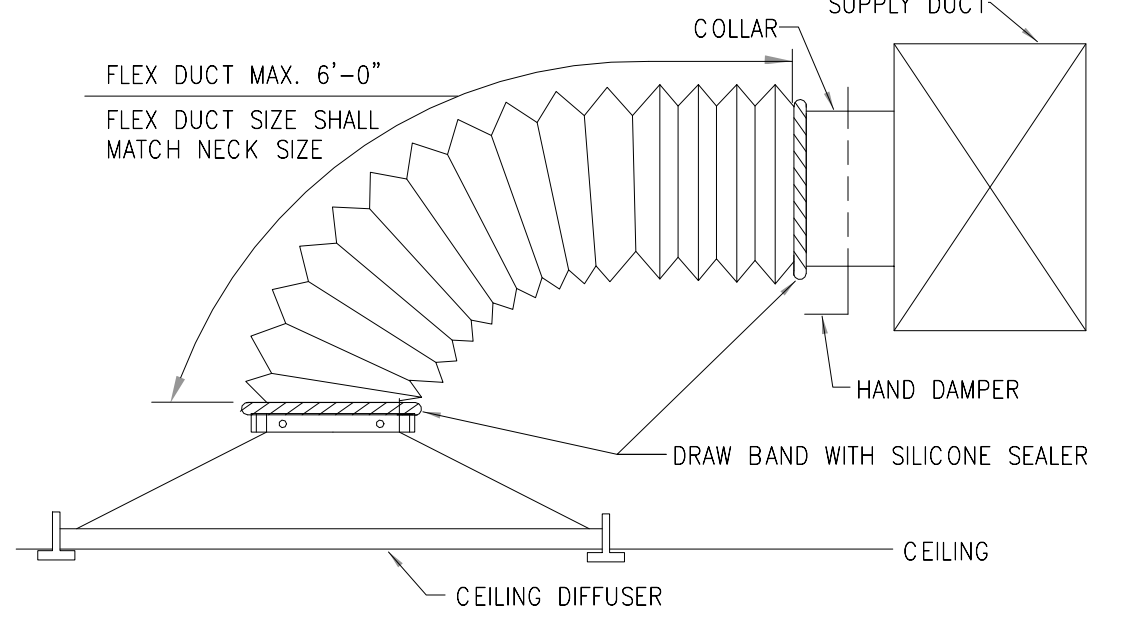
Mark	Description	VOLTAGE	PHASE	FLA	MOCP	HP	LOAD	Panel	Circuit Number	DISCONN ECT	FUSE RATING	COMMENTS
ACU-1	Packaged HVAC Unit	208 V	3	69.6 A	100		25074 VA	MDP	1.2,3	200	100	15 TON
ACU-2	Packaged HVAC Unit	208 V	3	134.4 A	175		48420 VA	MDP	7.8,9	200	175	30 TON
AH-1	Super Digital Inverter / RAV Series	208 V	1	0.3 A	15		62 VA			30	15	INDOOR AH-X UNIT POWERED FROM OUTDOOR HP-X UNITS.
AH-2	Super Digital Inverter / RAV Series	208 V	1	0.3 A	15		62 VA			30	15	INDOOR AH-X UNIT POWERED FROM OUTDOOR HP-X UNITS.
AH-3	Super Digital Inverter / RAV Series	208 V	1	0.3 A	15		62 VA			30	15	INDOOR AH-X UNIT POWERED FROM OUTDOOR HP-X UNITS.
AH-4	Super Digital Inverter / RAV Series	208 V	1	0.3 A	15		62 VA			30	15	INDOOR AH-X UNIT POWERED FROM OUTDOOR HP-X UNITS.
AH-5	Super Digital Inverter / RAV Series	208 V	1	0.3 A	15		62 VA			30	15	INDOOR AH-X UNIT POWERED FROM OUTDOOR HP-X UNITS.
AH-6	Super Digital Inverter / RAV Series	208 V	1	0.3 A	15		62 VA			30	15	INDOOR AH-X UNIT POWERED FROM OUTDOOR HP-X UNITS.
EF-1	Exhaust Fan	120 V	1	0.7 A	15		84 VA	D	7	30	15	
EF-2	Exhaust Fan	120 V	1	3.0 A	15		360 VA		<unnamed>			FAN TO BE CONNECTED TO LOCAL 120V RECEPTACLE CIRCUIT.
HP-1	Super Digital Inverter / RAV Series	208 V	1	28.0 A	50		5824 VA	E	10,12	60	50	3 TON
HP-2	Super Digital Inverter / RAV Series	208 V	1	24.0 A	45		4992 VA	E	6,8	60	45	2.5 TON
IWH-1	Instant-Flow Micro-Standard Flow Tankless Water Heater	208 V	1	20.0 A	30		4160 VA	D	30,32	30	20	
OAU-1	Outside Air Unit	208 V	3	46.4 A	60		16717 VA	E	11,13,15	60	60	5 TON
PIU-1	Powered Induction Unit	208 V	3	31.8 A	40		11457 VA	D	80,82,84	30	40	
PIU-2	Powered Induction Unit	208 V	3	10.6 A	15		3819 VA	D	65,67,69	30	15	
PIU-3	Powered Induction Unit	208 V	3	15.4 A	20		5549 VA	D	74,76,78	30	20	
PIU-4	Powered Induction Unit	208 V	3	15.4 A	20		5549 VA	D	77,79,81	30	20	
PIU-5	Powered Induction Unit	208 V	3	11.9 A	15		4288 VA	D	71,73,75	30	15	
PIU-6	Powered Induction Unit	208 V	3	10.6 A	15		3819 VA	D	68,70,72	30	15	
PIU-7	Powered Induction Unit	208 V	3	9.8 A	15		3531 VA	D	62,64,66	30	15	
PIU-8	Powered Induction Unit	208 V	3	9.2 A	15		3315 VA	D	59,61,63	30	15	
PIU-9	Powered Induction Unit	208 V	3	13.4 A	20		4828 VA	D	53,55,57	30	20	
UH	Horizontal-Vertical Unit Heater	208 V	1	20.8 A	30		4326 VA	D	48,50			LOCAL DISCONNECT INTEGRAL TO UNIT
UH	Horizontal-Vertical Unit Heater	208 V	1	20.8 A	30		4326 VA	D	33,35			LOCAL DISCONNECT INTEGRAL TO UNIT
UH	Horizontal-Vertical Unit Heater	208 V	1	20.8 A	30		4326 VA	D	52,54			LOCAL DISCONNECT INTEGRAL TO UNIT
UH	Horizontal-Vertical Unit Heater	208 V	1	20.8 A	30		4326 VA	D	49,51			LOCAL DISCONNECT INTEGRAL TO UNIT
VAV-1	VAV Box	208 V	3	5.5 A	15		1982 VA	D	56,58,60	30	15	
WH	Heavy-Duty Wall Heater</											

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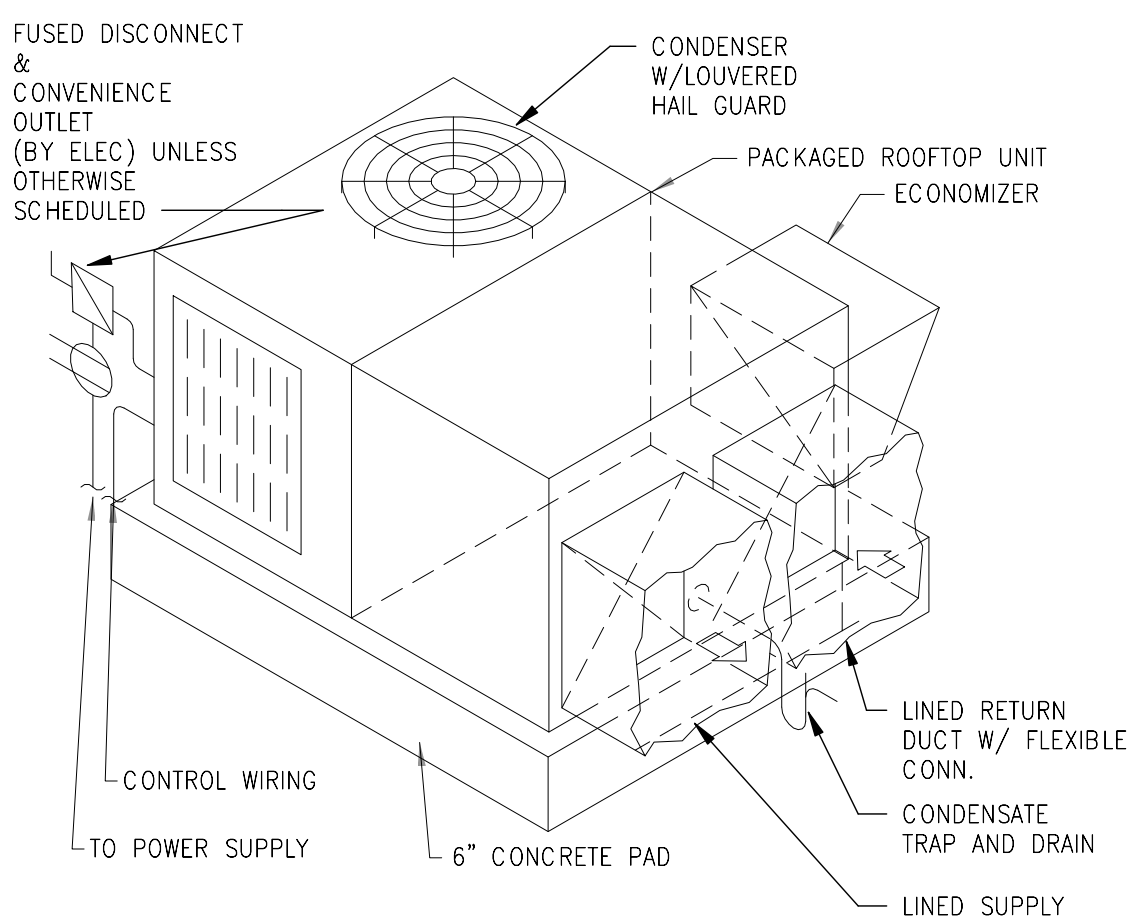
HVAC NOTES

- 1. SCOPE OF WORK
 - A. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR AS REQUIRED AND AS INDICATED ON THESE DRAWINGS AND NOTES TO SATISFY A COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
 - B. ALL WORK SHALL BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER. CARE SHALL BE EXERCISED TO MINIMIZE ANY INCONVENIENCE OR DISTURBANCE TO OTHER AREAS OF THE BUILDING WHICH ARE TO REMAIN IN OPERATION. ISOLATE WORK AREAS BY MEANS OF TEMPORARY PARTITIONS AND/OR TAPPS TO KEEP DUST AND DIRT WITHIN THE CONSTRUCTION AREA. CLEAN THE JOB SITE DAILY AND REMOVE DEBRIS CAUSED BY THE PERFORMANCE OF THE WORK.
 - C. ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES AND ALL OTHER REGULATION GOVERNING WORK OF THIS NATURE. ALL WORK SHALL BE PERFORMED IN A CLEAN AND WORKMAN LIKE MANNER. INSTALLATION OF EQUIPMENT, ACCESSORIES AND COMPONENTS SHALL BE IN COMPLIANCE WITH THE MANUFACTURER'S INSTALLATION REQUIREMENTS.
 - D. THE CONTRACTOR SHALL, BEFORE SUBMITTING ANY PROPOSAL, EXAMINE THE PROPOSED SITE AND SHALL DETERMINE FOR HIMSELF THE CONDITIONS THAT MAY AFFECT THE WORK. NO ALLOWANCE SHALL BE MADE IF THE CONTRACTOR FAILS TO MAKE SUCH EXAMINATIONS.
 - E. ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY THE ENGINEER.
 - F. THE WORD "PROVIDE" SHALL MEAN "FURNISH AND INSTALL," THE WORD "DEMO" SHALL MEAN "REMOVE AND DISPOSE." EXISTING ITEMS THAT ARE REMOVED SHALL NOT BE REUSED IN NEW SYSTEMS, EXCEPT WHERE INDICATED. ALL ITEMS REMOVED SHALL BECOME PROPERTY OF THE OWNER AND SHALL BE DISPOSED OF AS PER THE OWNER'S INSTRUCTIONS, UNLESS INDICATED OTHERWISE. ALL ITEMS WHICH ARE NOT TO BE STORED ON THE SITE BY THE OWNER SHALL BE REMOVED FROM THE BUILDING IMMEDIATELY.
 - G. SHUT DOWNS OF EXISTING SYSTEMS SHALL BE SCHEDULED AND APPROVED BY THE OWNER PRIOR TO COMMENCING WORK. USE OF THE OWNER'S ELEVATORS, BUILDING CORRIDORS, AND PROVIDED LAYDOWN SPACE SHALL BE AT THE DIRECTION OF THE OWNER AND COORDINATED WITH THEIR OPERATIONS.
 - H. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RIGGING, HANDLING, SAFE HOUSEKEEPING OF HIS OWN PROPERTY, EQUIPMENT AND SUPPLIES ON THE JOB SITE. OWNER ASSUMES NO RESPONSIBILITY FOR PROTECTION OF PROPERTIES AGAINST FIRE, THEFT AND ENVIRONMENTAL CONDITION. CONTRACTOR SHALL PROVIDE LABOR TO RECEIVE, UNLOAD, STORE, PROTECT AND TRANSFER TO POINT OF INSTALLATION, OWNER FURNISHED ITEMS.
- 2. PERMITS
 - A. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND PAY ANY AND ALL FEES.
- 3. SHOP DRAWINGS
 - A. SUBMIT AN ELECTRONIC SET, CLEARLY LABELED, OF SHOP DRAWINGS AND SUBMITTALS FOR MAJOR EQUIPMENT/PRIORS TO THE ENGINEER FOR APPROVAL PRIOR TO STARTING ANY WORK. SUBMIT AN ELECTRONIC SET OF AS-BUILT DOCUMENTS AND OPERATION AND MAINTENANCE MANUALS TO THE ENGINEER AND OWNER, AND (2) HARD COPIES OF MANUALS TO THE OWNER UPON COMPLETION OF CONSTRUCTION.
- 4. FLEXIBLE TYPE DUCT
 - A. SHALL BE OF TWO ELEMENT SPIRAL CONSTRUCTION COMPOSED OF A CORROSION RESISTANT METAL SUPPORTING SPIRAL AND COATED FABRIC WITH A MINERAL BASE. FLEXIBLE DUCT CONNECTORS SHALL BE LISTED BY U.L. CLASS 1 DUCTS, AND SHALL HAVE A FLAME SPREAD RATING NOT EXCEEDING 25 AND A SMOKE DEVELOPED RATING NOT EXCEEDING 50.
 - B. USE OF FLEXIBLE DUCTWORK SHALL BE LIMITED TO NO MORE THAN 5 LINEAR FEET PER RUN. CONTRACTOR SHALL BE CAREFUL SO AS NOT TO KINK OR COLLAPSE FLEXIBLE DUCT.
- 5. HVAC CONTROLS
 - A. CONTRACTOR TO SUPPLY AND INSTALL ALL CONTROL WIRING AND THERMOSTATS AS REQUIRED. SEE APPLICABLE NOTES.
- 6. ELECTRICAL
 - A. MECHANICAL CONTRACTOR TO COORDINATE WITH ELECTRICAL FOR LOCATION OF WIRING AND REQUIREMENTS FOR EACH HVAC UNIT.
 - B. PROJECT SPECIFIC, IF THE MECHANICAL CONTRACTOR IS TO SERVE AS PRIME CONTRACTOR, THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, INCLUDING ELECTRICAL.
- 7. DUCTWORK
 - A. THE DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "SMACNA" APPLICABLE MANUALS. ALL DUCTWORK SHALL BE THE LOW VELOCITY TYPE, UNLESS SPECIFIED OTHERWISE.
 - B. CONTRACTOR SHALL PROVIDE AND INSTALL APPROVED FIRE DAMPERS AND ACCESS PANELS IN ANY AND ALL DUCTWORK WHICH PENETRATES A HORIZONTAL OR VERTICAL FIRE PARTITION, OR AS OTHERWISE SHOWN ON DRAWINGS.
 - C. ALL BRANCH DUCTS TO HAVE VOLUME/MANUAL DAMPERS.
 - D. SMOOTH TURN RADIUS DUCTWORK OR TURNING VANES SHALL BE USED THROUGHOUT WHERE FLOW EXCEEDS 150 CFM.
 - E. ALL DUCT JOINTS TO BE SEALED IN ACCORDANCE WITH "SMACNA" STANDARDS AND ACCEPTED GOOD PRACTICE.
 - F. THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSIONS OF FACE SHOWN OR INDICATED. ALL DUCT DIMENSIONS SHOWN ARE NET INSIDE VIZES. DIMENSIONS MAY BE CHANGED SO LONG AS THE NET FREE FACE AREA IS MAINTAINED.
 - G. ALL CONCEALED DUCTWORK SHALL BE INSULATED WITH 1-1/2" FIBERGLASS INSULATING BLANKET WITH ALUMINUM FOIL FACING.
 - H. ALL SUPPLY AND RETURN DUCTWORK 15 FEET DOWNSTREAM OF THE HVAC UNIT SHALL BE INTERNALLY LINED WITH A 1/2" ACOUSTICAL DUCT LINER.
 - I. ALL EXTERIOR DUCTWORK SHALL BE COMPLETELY SEALED WITH WEATHERPROOF MASTIC COATING.
 - J. INSTALL HANGERS, SUPPORTS, CLAMPS, AND ATTACHMENTS AS REQUIRED TO PROPERLY SUPPORT PIPING FROM THE BUILDING STRUCTURE.
- 8. FABRIC DUCT SYSTEM
 - A. FABRIC DUCT: IN COMPLIANCE WITH FABRICAIR INCORPORATED (502-493-2210 SALES-US@FABRICAIR.COM) OR APPROVED EQUAL. PROVIDE ALL COMPONENTS, HARDWARE, ETC. NECESSARY FOR A FULLY FUNCTIONAL FABRIC AIR DISPERSION SYSTEM AS CLASSIFIED BY U.L. IN ACCORDANCE WITH THE 25/50 FLAME SPREAD/SMOKE DEVELOPED REQUIREMENTS OF NFPA90-A AND UL2518. AIR DISPERSION SYSTEM SHALL BE CONSTRUCTED WITH AN EXTERNAL SUPPORT FRAMEWORK OF REMOVABLE ANODIZED ALUMINUM HOOPS TO MAINTAIN CYLINDRICAL SHAPE OF THE DUCTWORK AT ALL TIMES. SUPPORT STRUCTURE MUST BE EXTERNAL TO DUCT AS NOT TO CAUSE PRESSURE DROP OR INTERNAL WEAR ON THE SYSTEM. DUCT MATERIAL SHALL BE WOVEN POLYESTER, FIRE RETARDANT IN ACCORDANCE WITH UL 2518, AND AVAILABLE IN 9 STANDARD COLORS TO BE APPROVED BY ARCHITECT PRIOR TO FABRICATION. NECESSARY PERMEABILITY OF FABRIC SHALL BE BASED ON PSYCHROMETRIC ANALYSIS AND SHALL BE VERIFIED BY FRAZIER PERMEABILITY TEST. CUSTOMIZED AIR DISPERSION SHALL BE ACCOMPLISHED WITH LASER CUT ORIFICES. ORIFICE SIZE, QUANTITY, AND PLACEMENT SHALL BE APPROVED BY MANUFACTURER. INLETS, SECTIONS, FITTINGS, AND ENDCAPS MUST BE INDIVIDUALLY LABELED AND REFERENCED ON ASSEMBLY DRAWINGS. MANUFACTURER MUST PROVIDE A 10 YEAR, NON-PRORATED WARRANTY FOR ALL PRODUCTS. PRORATED WARRANTIES ARE NOT ACCEPTABLE. CONTACT FABRICAIR FOR DESIGN ASSISTANCE AT (502-493-2210 SALES-US@FABRICAIR.COM).
- 9. PIPING
 - A. PROVIDE ALL NECESSARY TEMPORARY OR PERMANENT CAPS OR PLUGS FOR PIPING. DO NOT LEAVE PIPING OPEN ENDED.
 - B. SUCCESSFUL PRESSURE TEST ALL PIPING SYSTEMS. TEST SHALL BE PERFORMED AT 100% OF NOMINAL OPERATING PRESSURES. REPAIR AND RETEST AS REQUIRED UNTIL SYSTEMS PROVE TIGHT.
- 10. DRAINAGE PIPING (CONDENSATE)
 - A. SHALL BE TYPE L COPPER PIPE WITH SOLDERED JOINTS. USE OF COPPER PRESS FITTINGS REQUIRES PRIOR APPROVAL. SLOPE HORIZONTAL LINES 1/8" IN 1'-0" TO DRAIN. CONDENSATE DRAINS SHALL BE ROUTED TO ROOF DRAIN, FLOOR DRAIN, FLOOR SINK, HUB DRAIN OR OTHER APPROVED INDIRECT WASTE DRAIN. INSULATED TO PREVENT DAMAGE FROM CONDENSATION WHEN WITHIN BUILDING. INSULATION SHALL NOT BE REQUIRED OUTDOORS.
 - B. DRAIN PIPING SHALL BE SAME SIZE AS EQUIPMENT CONNECTION AND NOT REDUCE IN SIZE. MINIMUM 3/4" UP TO 20 TONS, 1" OVER 20 TONS TO 40 TONS, 1-1/4" OVER 40 TONS TO 80 TONS, 1-1/2" OVER 80 TONS TO 125 TONS AND 1" OVER 125 TONS TO 250 TONS.

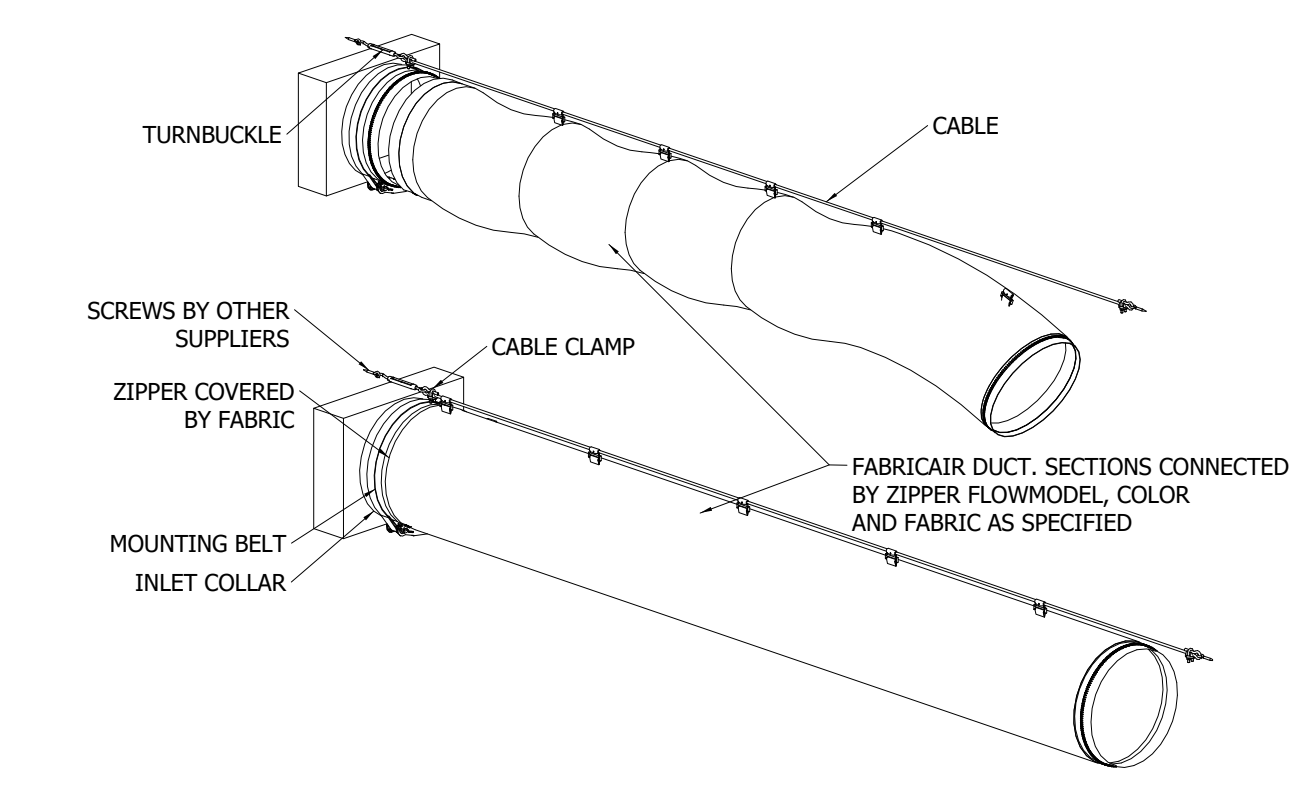
- 11. REFRIGERANT PIPING
 - A. CONTRACTOR SHALL PROVIDE AND INSTALL REFRIGERANT PIPING IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND IN SUCH A WAY AS TO BE INCONSPICUOUS AND FREE FROM ANY POSSIBLE CONDENSATION. INSULATE REFRIGERANT LINES CONTINUOUSLY WITH ABSORBER-FLEX PIPE INSULATION IN ACCORDANCE WITH INSULATION MANUFACTURER'S INSTRUCTIONS.
- 12. PIPE SUPPORTS
 - A. ALL PIPE SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN A NEAT AND WORKMANLIKE MANNER. THE USE OF WIRE OR METAL STRAP TO SUPPORT PIPES WILL NOT BE PERMITTED. SPACING OF PIPE SUPPORTS SHALL NOT EXCEED 8 FEET FOR ALL PIPING. PLASTIC PIPING TO BE SUPPORTED EVERY 4 FEET.
- 13. MISCELLANEOUS
 - A. COORDINATE INSTALLATION OF ALL ROOF FLASHING AT ROOF PENETRATION. CONTRACTOR SHALL COORDINATE THE WORK WITH ALL OTHER TRADES PRIOR TO FABRICATION, PURCHASE AND/OR INSTALLATION OF ALL WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORING AND BEAM PENETRATIONS AS IT RELATES TO THE WORK. CONTRACTOR SHALL SUBMIT SIZE AND LOCATION TO THE STRUCTURAL ENGINEER FOR APPROVAL.
 - B. THE MECHANICAL PLANS ARE INTENDED TO BE DIAGRAMMATIC AND ARE BASED ON ONE MANUFACTURER'S EQUIPMENT. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR ALL THE DETAILS OF THE EQUIPMENT. DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS.
 - C. THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO PROCEEDING WITH ANY WORK. WHERE DISCREPANCIES OCCUR BETWEEN THESE DOCUMENTS AND EXISTING CONDITIONS, THE DISCREPANCIES SHALL BE REPORTED TO THE OWNER AND/OR ENGINEER FOR EXPEDITING AND RESOLVE.
 - D. ALL WALL PENETRATIONS SHALL BE PROPERLY FRAMED AND SEALED WEATHERPROOF. ANY DAMAGE TO BRICK, PAINT, ETC. SHALL BE REPAIRED TO PRE-CONSTRUCTION LEVELS TO OWNER'S SATISFACTION. ALL EXTERIOR OPENINGS TO BE PROPERLY CAULKED AND SEALED WITH A SEALANT OF HIGH QUALITY AND LONG LIFE, TO PREVENT INFILTRATION OF OUTSIDE AIR INTO CONDITIONED SPACE.
 - E. WHERE CABLES, CABLES, DUCTWORK OR PIPING PASSES THROUGH FIRE RATED FLOORS OR WALLS, THE SLEEVES SHALL BE COMPLETELY SEALED WITH A FIRE STOP MATERIAL THAT IS LISTED FOR THIS SERVICE, SUCH AS DOWN CORNING CORPS, SILICONE ELASTOMER, DOW CORNING 3-6548 SILICON RIV FOM, OR APPROVED EQUAL, IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURER, TO MAINTAIN THE FIRE RATING OF THE PENETRATION.
 - F. ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN A FURRED CHASE OR ABOVE THE SUSPENDED CEILING.
 - G. ACCESS PANELS IN HARD SUSPENDED CEILINGS ARE REQUIRED FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC. ACCESS PANELS SHALL BE FURNISHED AND INSTALLED UNDER ARCHITECTURAL SPECIFICATIONS.
- 14. TESTING AND BALANCING
 - A. TEST AND BALANCE SHALL BE PERFORMED BY A CERTIFIED TEST AND BALANCE AGENT. TEST AND BALANCE REPORTS SHALL BE PROVIDED TO OWNER.
- 15. WARRANTY
 - A. MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE(1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THIS CONTRACTOR'S EXPENSE.
 - B. FOR THE SAME PERIOD, THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED BY HIM.



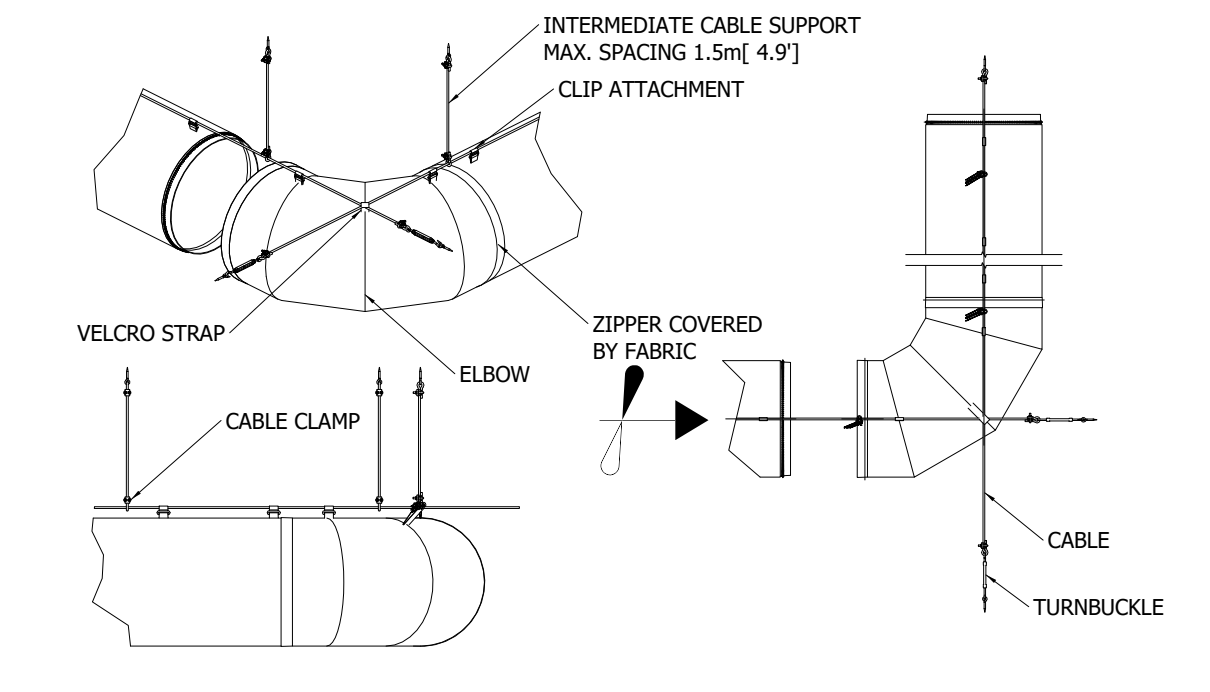
3 TYPICAL DIFFUSER CONNECTION DETAIL
M-001 N.T.S.



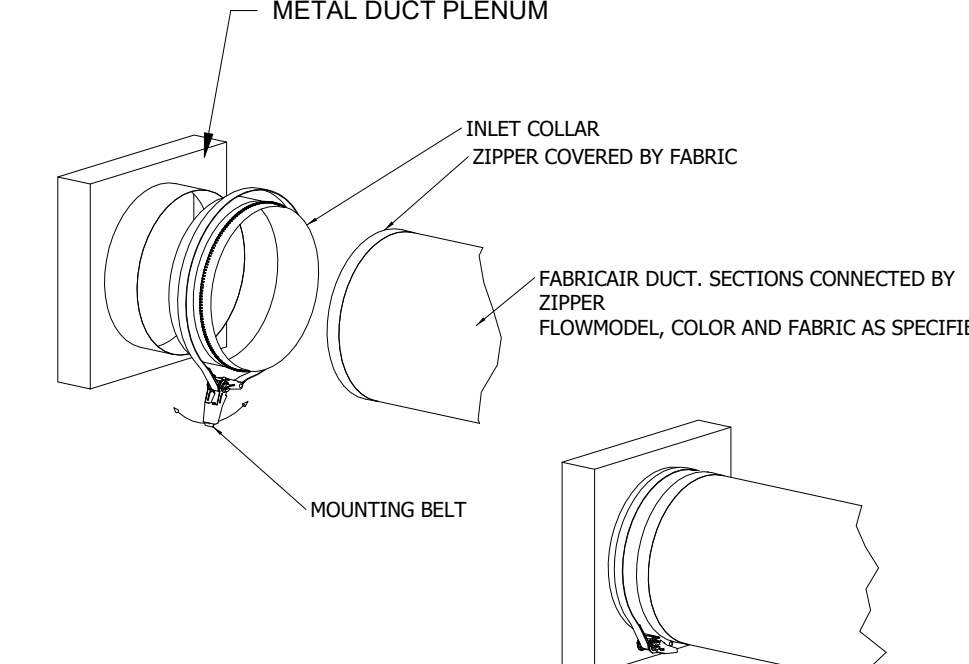
4 CONDENSATE DRAIN DETAIL
M-001 N.T.S.



5 GROUND MOUNTED PACKAGED UNIT DETAIL
M-001 N.T.S.

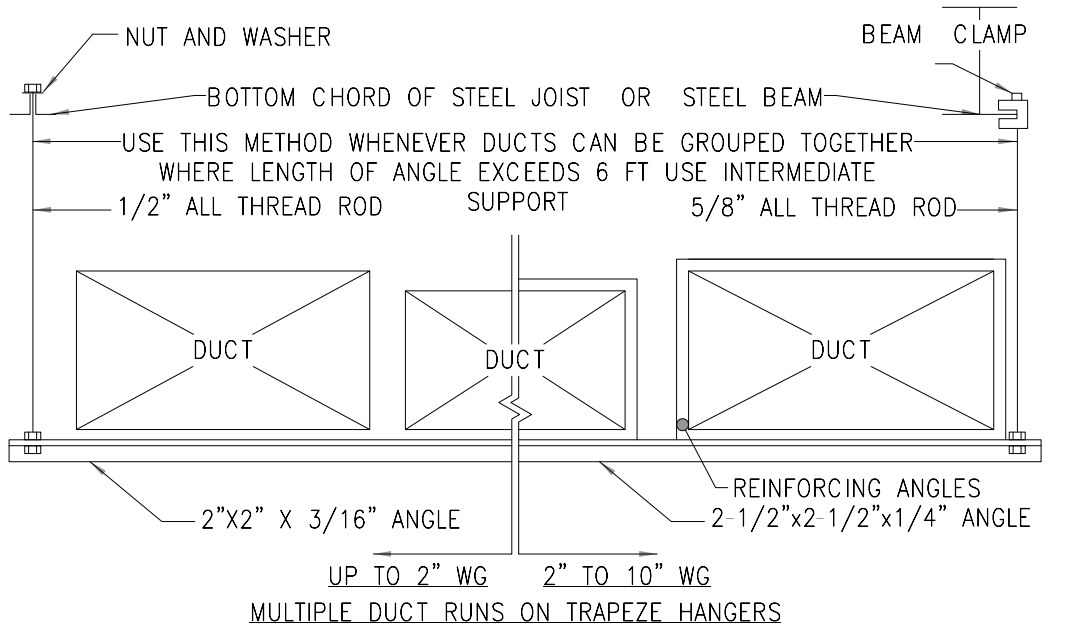


6 TYPE 1 FABRIC DUCT SUPPORT DETAIL 1
M-001 N.T.S.

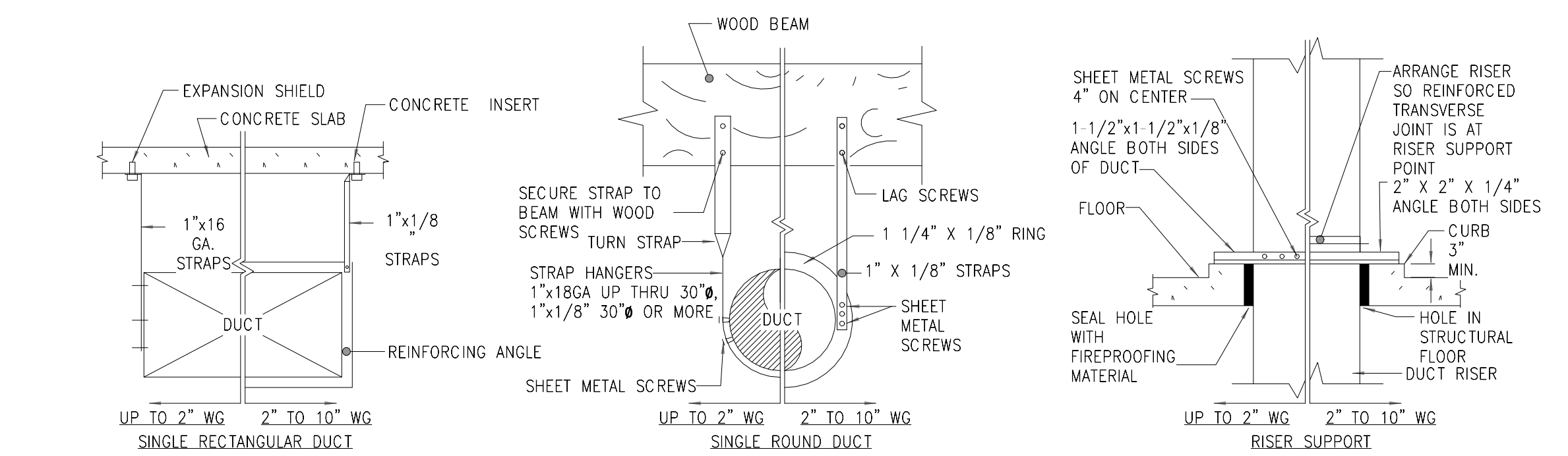


7 TYPE 1 FABRIC DUCT SUPPORT DETAIL 2
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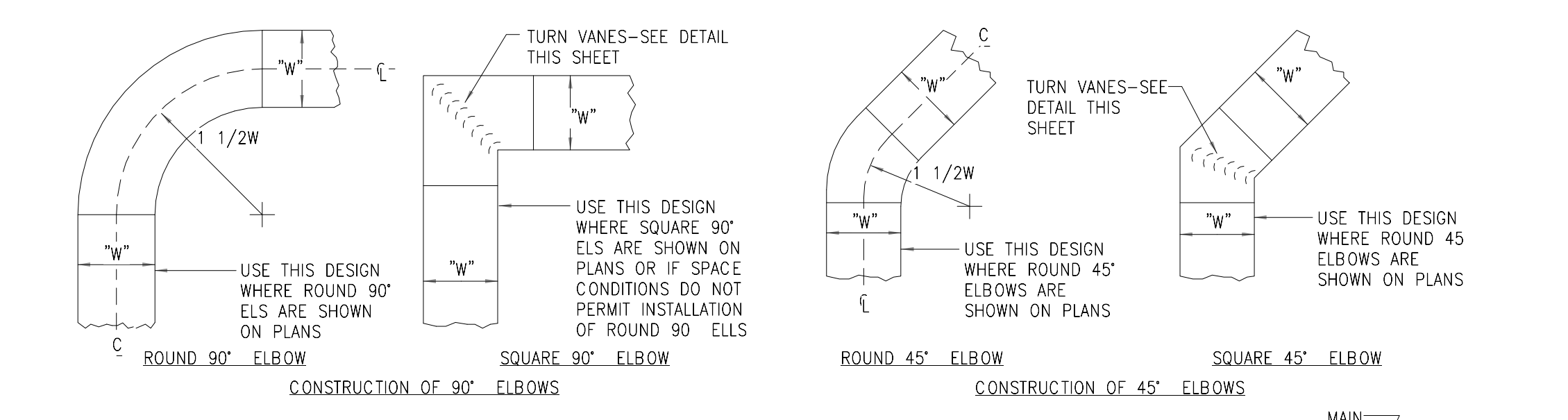
8 FABRIC DUCT CONNECTION TO DUCT PLENUM DETAIL
M-001 N.T.S.



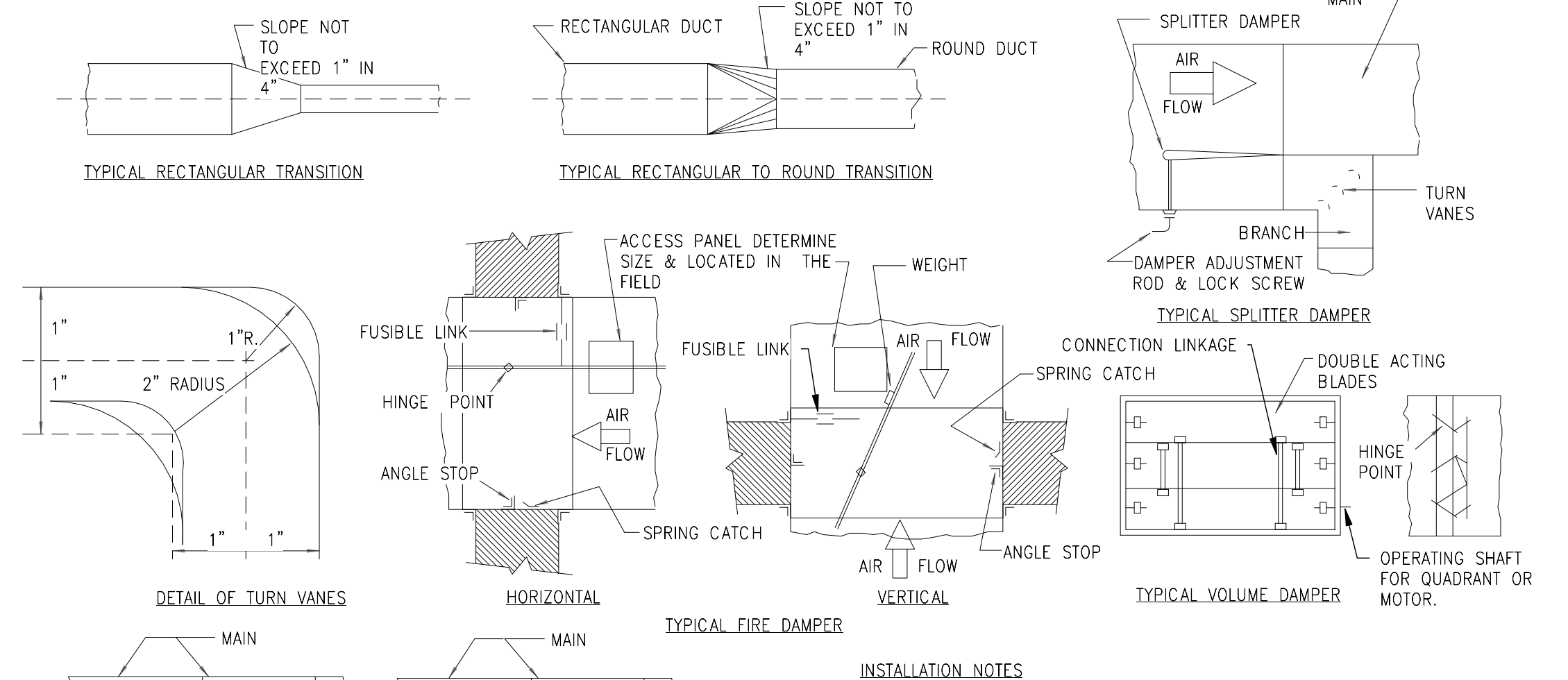
9 ELECTRIC UNIT HEATER MOUNTING
M-001 N.T.S.



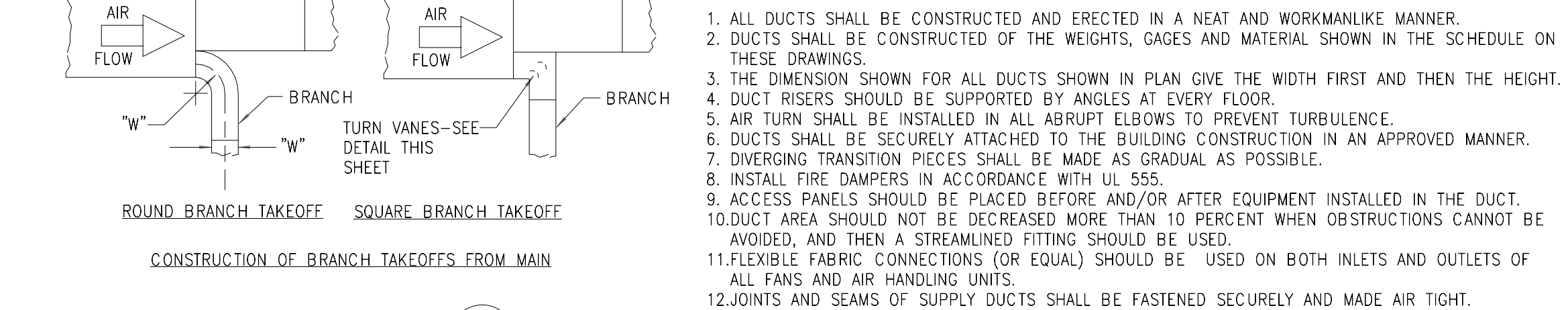
10 HANGERS AND SUPPORTS FOR LOW (UP TO 2\"/>



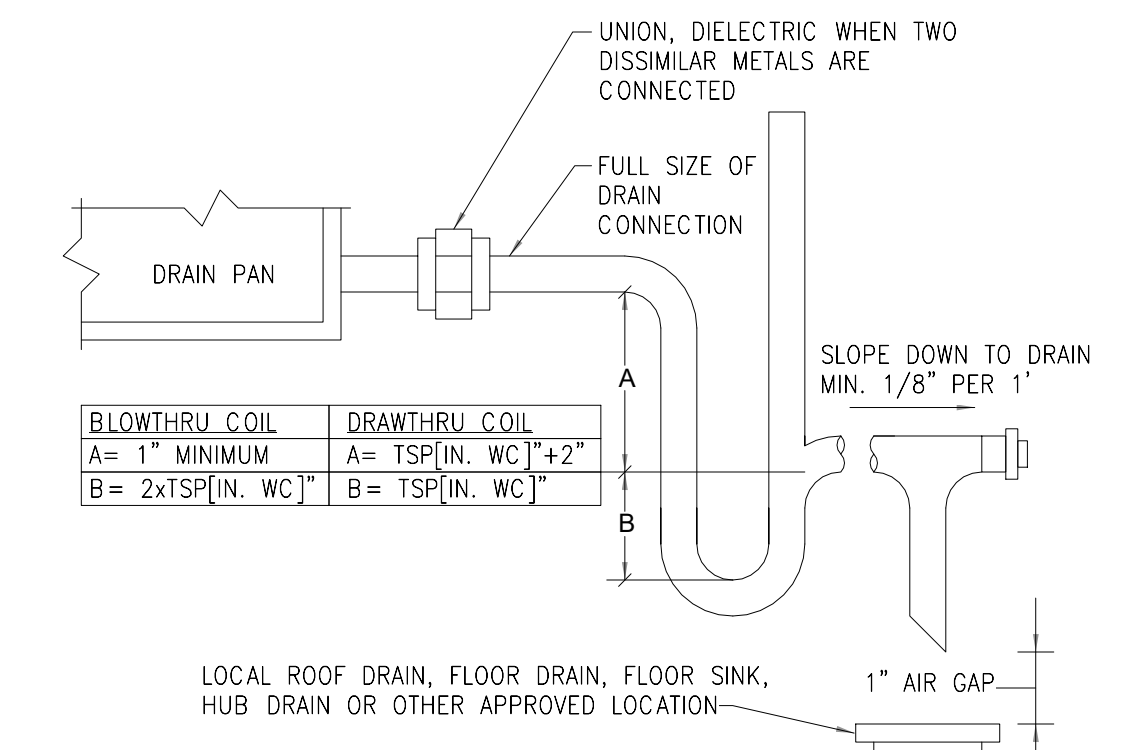
11 CONSTRUCTION OF 90\"/>



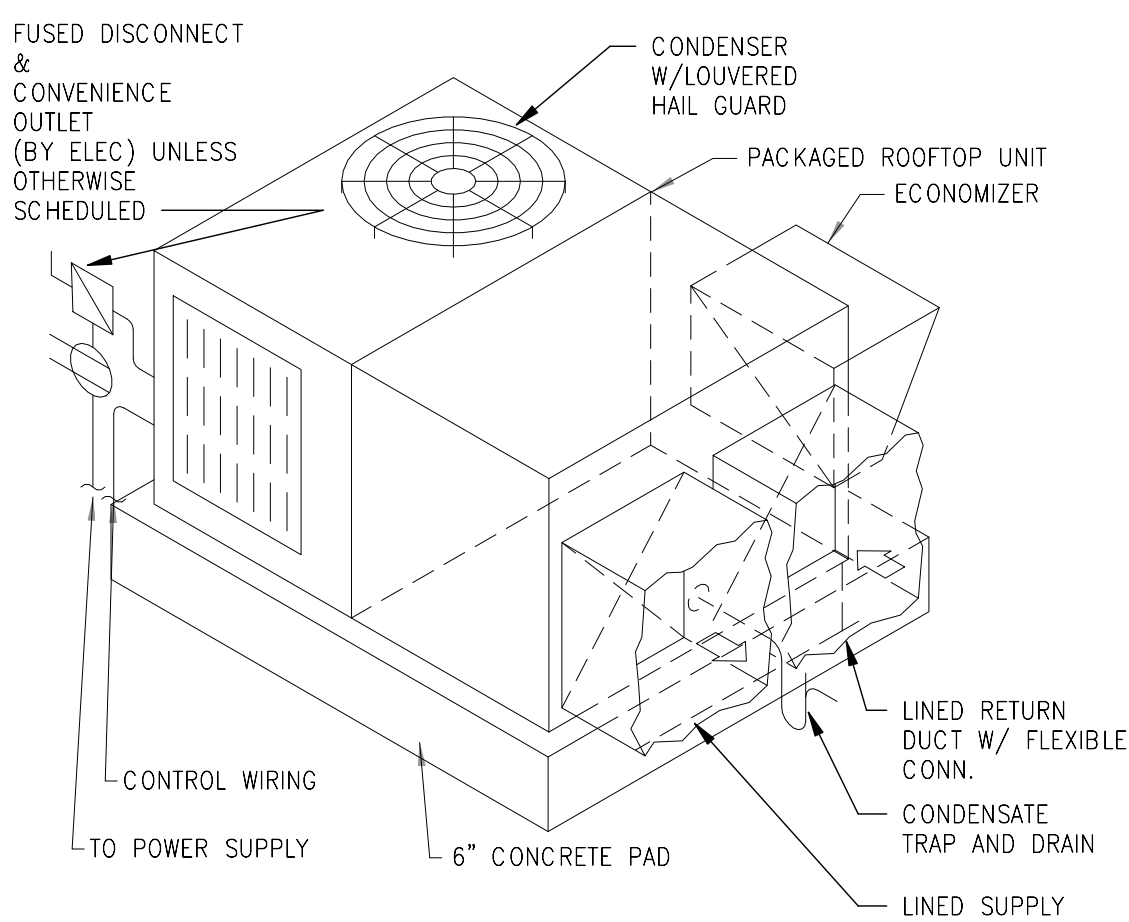
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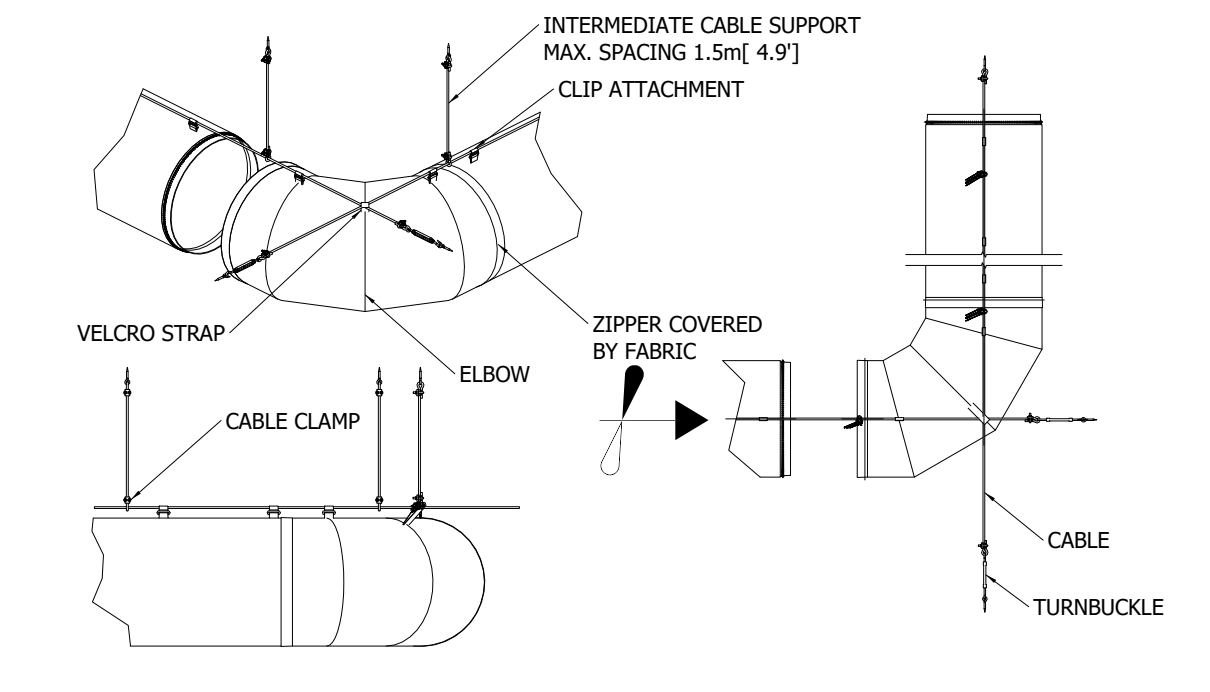
13 Low Velocity Duct Layout Details
M-001 N.T.S.



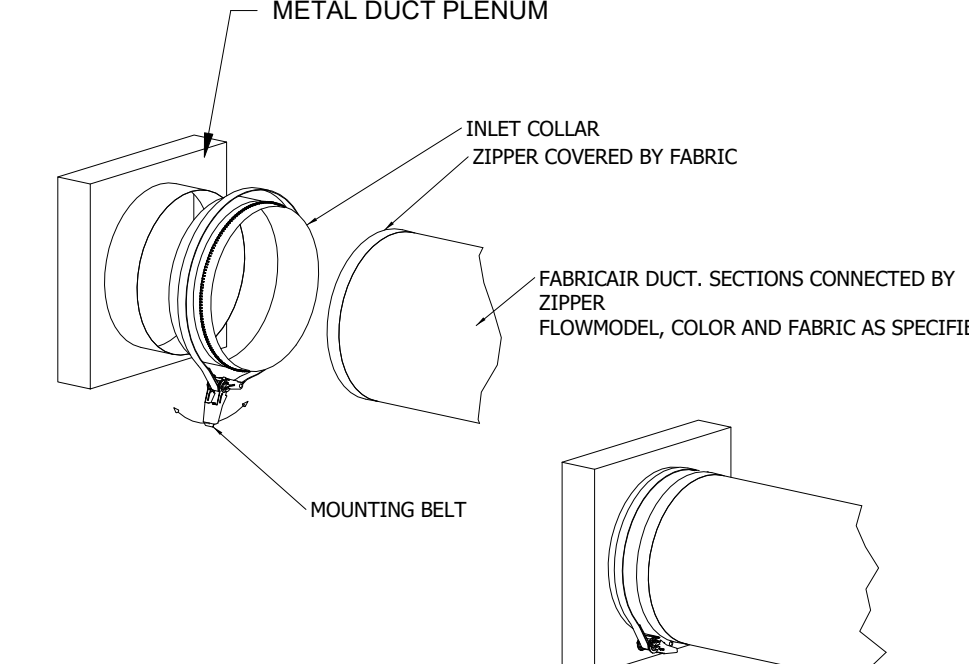
4 CONDENSATE DRAIN DETAIL
M-001 N.T.S.



5 GROUND MOUNTED PACKAGED UNIT DETAIL
M-001 N.T.S.

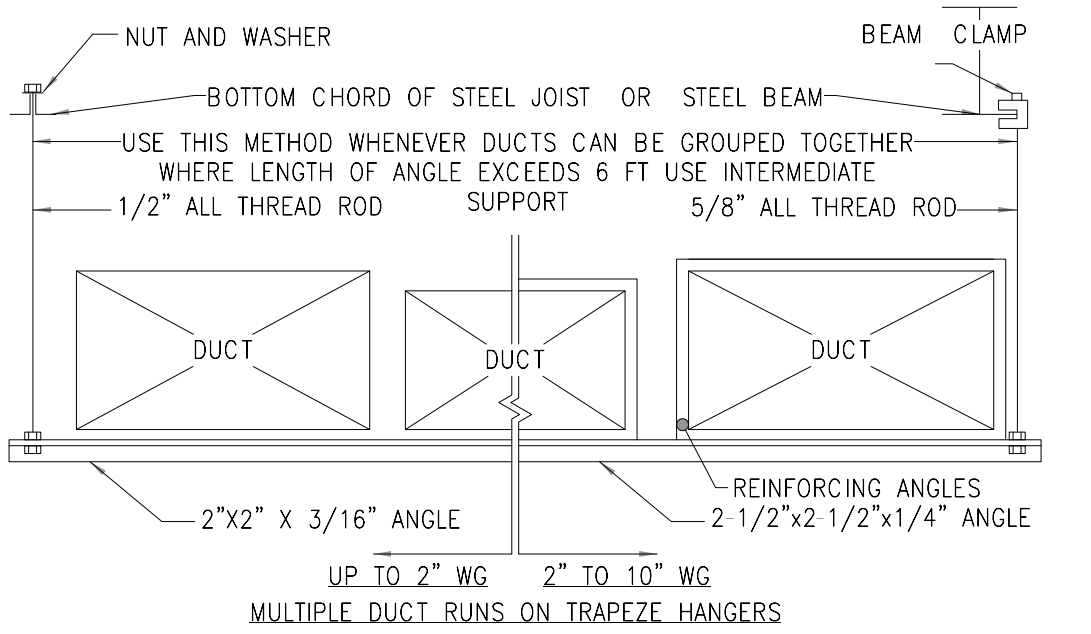


6 TYPE 1 FABRIC DUCT SUPPORT DETAIL 1
M-001 N.T.S.

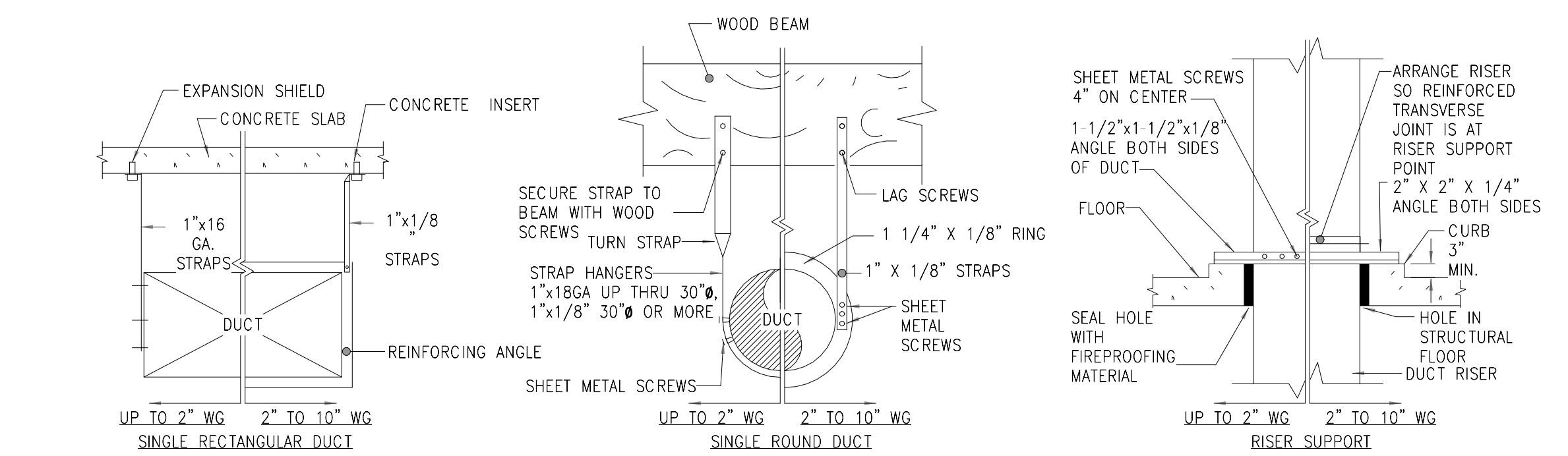


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M-001 N.T.S.

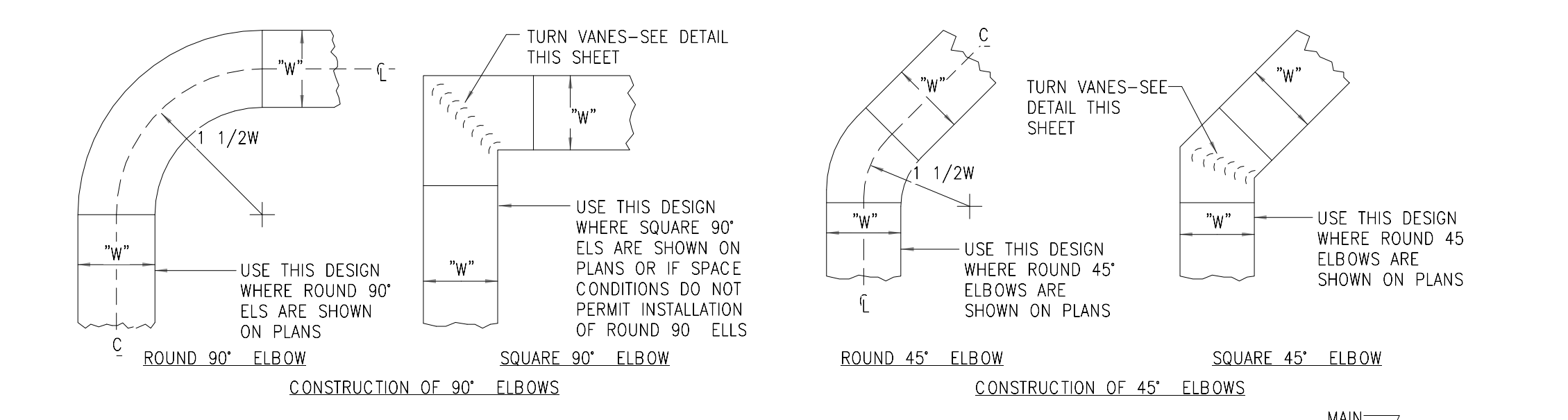
8 FABRIC DUCT CONNECTION TO DUCT PLENUM DETAIL
M-001 N.T.S.



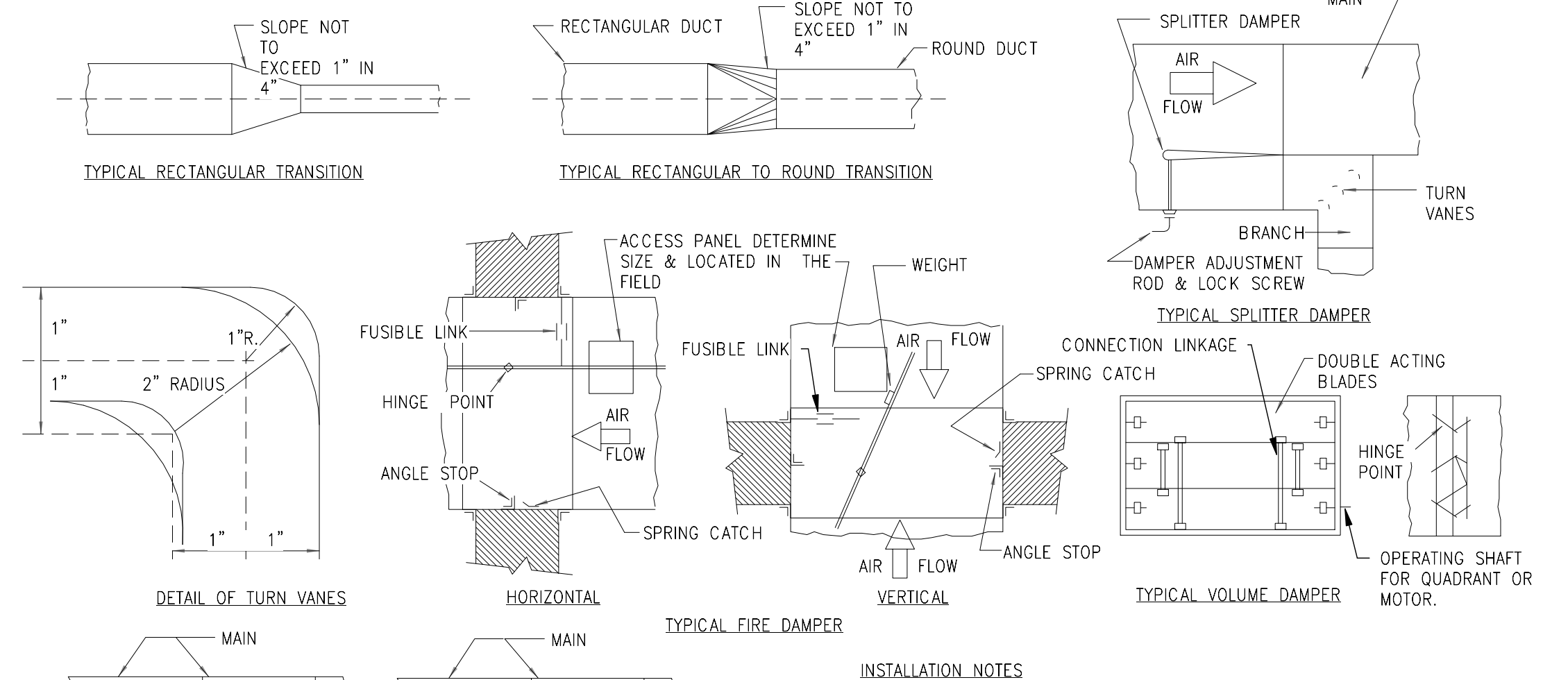
9 ELECTRIC UNIT HEATER MOUNTING
M-001 N.T.S.



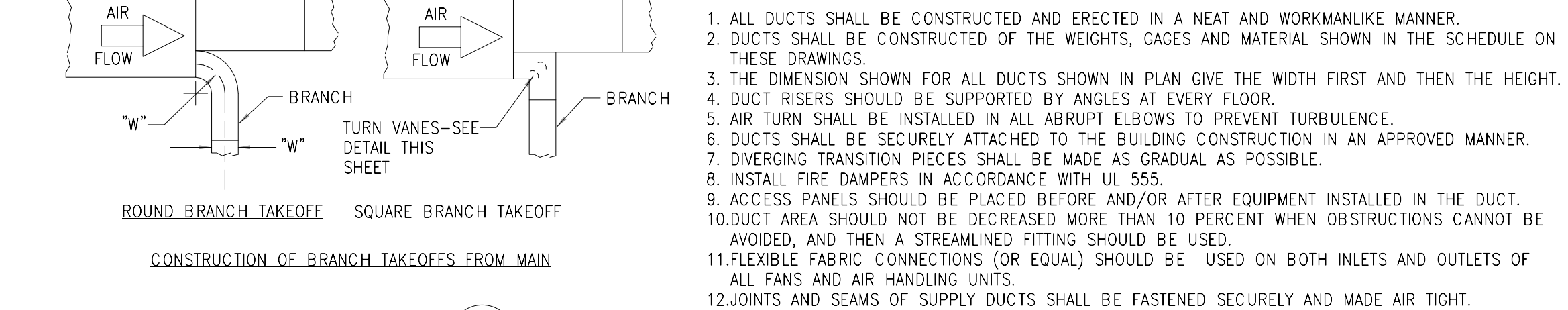
10 HANGERS AND SUPPORTS FOR LOW (UP TO 2\"/>



11 CONSTRUCTION OF 90\"/>



12 CONSTRUCTION OF 45\"/>



13 Low Velocity Duct Layout Details
M-001 N.T.S.

WAKEFIELD BEASLEY & ASSOCIATES

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JOHNSON PARK GYMNASIUM & NATATORIUM EXPANSION

1781 EBENEZER ROAD
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2018-11-30	BID / PERMIT SET

Revisions

No.	DATE	DESCRIPTION

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Date 06/08/2017 Job No. 1607008000

Sheet Title GYM HVAC NOTES AND DETAILS

Sheet No. M-001

PERMIT SET

PACKAGED HVAC UNIT SCHEDULE

Mark	MODEL	TONS	SUPPLY AIRFLOW CFM	EXTERNAL STATIC PRESSURE	MINIMUM OUTSIDE AIR	VOLTAGE	PHASE	MCA	MOCP	COOLING				HEATING			MANUFACTURER	WEIGHT (LBS)	Notes & Accessories	
										COOLING AMBIENT TEMPERATURE °F	SENSIBLE COOLING (MBH)	TOTAL COOLING (MBH)	EAT Cooling Coil	Cooling Coil LAT	GAS INPUT MBH	GAS OUTPUT MBH				ELECTRIC HEAT (KW)
ACU-1	50LC0B17C7M5-1B3C0	15	4,500	2.0 in. wg.	1200 CFM	208 V	3	87 A	100	95	127.3	171.3	80DB / 67 WB	53.9 DB / 52.9 WB	NA	NA	NA	CARRIER	2422	1-24
ACU-2	48A5S030ANV52ARA	30	9,000	1.5 in. wg.	2300 CFM	208 V	3	168 A	175	95	233.1	330	80DB / 67 WB	59.6 DB / 57.6 WB	350	283.5	NA	CARRIER	4327	1-12, 13-25
OAU-1	RV-25-5	5	800	0.75	800	208 V	3	58 A	60	95	39.3	64.9	95DB / 75WB	50.3 DB / 50.3 WB	NA	NA	15.5	Greenheck	2629	1-10, 26

NOTES & ACCESSORIES:

- AMBIENT CONDITIONS: 93°F DB / 75°F WB SUMMER, 18°F WINTER
- 115V CONVENIENCE OUTLET - INDEPENDENTLY (NOT FACTORY) WIRED.
- FACTORY PROVIDED AND WIRED STARTERS/CONTACTORS.
- 2" PLEATED FILTERS, MERV 8
- DRAIN PAN WITH FLOAT SWITCH, WIRED TO SHUT DOWN UNIT UPON EXCESS WATER DETECTION.
- SINGLE WALL INSULATED CABINET, MINIMUM R-13
- 105°F AMBIENT AIR TEMPERATURE AT UNIT CONDENSER.
- NON-FUSED DISCONNECT SWITCH, FACTORY-PROVIDED.
- FACTORY-PROVIDED SMOKE DETECTOR AT UNIT SUPPLY.
- DIRTY FILTER SWITCH.
- 0-100° ECONOMIZER, DRY BULB CONTROL
- 100% POWER EXHAUST
- VARIABLE AIR VOLUME UNIT (VAV) WITH VAV OPEN CONTROLLER LINKED TO VAV BOXES. VAV TO BE CONTROLLED BY DUCT STATIC PRESSURE SENSOR.
- BLOWER PROVING SWITCH.
- FREESTAT.
- CRANKCASE HEATER.
- HIGH AND LOW PRESSURE CONTROL.
- AUTO-RESET PRESSURE SWITCHES.
- THREE-STRIKE LOCKOUT.
- HINGED ACCESS DOORS.
- STANDALONE WALL-MOUNTED SEVEN-DAY PROGRAMMABLE THERMOSTAT WITH DIGITAL INTERFACE, INCLUDING NIGHT SETBACK AND AUTOMATIC CHANGE-OVER. PROVIDE LOCKING COVER FOR THERMOSTAT.
- EER AT AHRN CONDITIONS.
- AFUE IN ACCORDANCE WITH DOE TEST PROCEDURES.
- R-410A WORKING REFRIGERANT.
- SINGLE POINT POWER.
- SINGLE ZONE VAV CONTROL WITH VARIABLE FREQUENCY DRIVE.
- DEDICATED OUTDOOR AIR SYSTEM WITH MODULATING HOT GAS REHEAT TO PROVIDE NEUTRAL VENTILATION AIR.

MULTIZONE SPLIT SYSTEM UNIT SCHEDULE

Mark	MODEL	TONS	SUPPLY AIRFLOW CFM	VOLTAGE	PHASE	MCA	MOCP	COOLING		HEATING		MANUFACTURER	WEIGHT (LBS)	Notes
								COOLING AMBIENT TEMPERATURE °F	TOTAL COOLING (MBH)	CAPACITY MBH				
AH-1	40MAQB12B-3	1	441	208 V	1	0.4 A	15	NA	12.0	11.8	CARRIER			
AH-2	40MAQB12B-3	1	441	208 V	1	0.4 A	15	NA	12.0	11.8	CARRIER			
AH-3	40MAQB12B-3	1	441	208 V	1	0.4 A	15	NA	12.0	11.8	CARRIER			
AH-4	40MAQB12B-3	1	441	208 V	1	0.4 A	15	NA	12.0	11.8	CARRIER			
AH-5	40MAQB12B-3	1	441	208 V	1	0.4 A	15	NA	12.0	11.8	CARRIER			
AH-6	40MAQB09B-3	3/4	441	208 V	1	0.4 A	15	NA	9.0	10.9	CARRIER			
HP-1	38MQRQ36D-3	3	NA	208 V	1	35.0 A	50	95	39.9	37.7	CARRIER			
HP-2	38MQRQ30D-3	2.5	NA	208 V	1	30.0 A	45	95	38.8	28.5	CARRIER			

VAV BOX SCHEDULE

Mark	MODEL	MAX PRIMARY CFM	MIN PRIMARY CFM	INLET SIZE (IN.)	FAN CFM	FAN SP (IN. W.G.)	ELECTRIC HEAT (KW)	VOLTAGE	PHASE	MCA	MOCP	MANUFACTURER	Notes & Accessories
PIU-1	DTQP	1400	420	12	700	0.25	10.5	208 V	3	39.7 A	40	TITUS	1, 3-11
PIU-2	DTQP	180	60	6	120	0.25	2	208 V	3	13.2 A	15	TITUS	1, 3-11
PIU-3	DTQP	680	200	10	345	0.25	5	208 V	3	19.2 A	20	TITUS	1, 3-11
PIU-4	DTQP	660	200	10	330	0.25	5	208 V	3	19.2 A	20	TITUS	1, 3-11
PIU-5	DTQP	320	100	8	160	0.25	2.5	208 V	3	14.9 A	15	TITUS	1, 3-11
PIU-6	DTQP	200	50	6	150	0.25	2	208 V	3	13.2 A	15	TITUS	1, 3-11
PIU-7	DTQP	330	100	8	230	0.25	3	208 V	3	12.3 A	15	TITUS	1, 3-11
PIU-8	DTQP	170	50	6	120	0.25	1.5	208 V	3	11.5 A	15	TITUS	1, 3-11
PIU-9	DTQP	300	90	8	210	0.25	3	208 V	3	16.7 A	20	TITUS	1, 3-11
VAV-1	DESV	220	65	4	NA	NA	2.0	208 V	3	6.9 A	15	TITUS	2-11

NOTES & ACCESSORIES:

- PARALLEL FAN POWERED BOX WITH ELECTRIC REHEAT.
- SINGLE DUCT VAV BOX WITH ELECTRIC REHEAT.
- ECM FAN MOTOR WITH OVERLOAD PROTECTION.
- PROVIDE BOTTOM ACCESS PANEL FOR FAN ACCESS.
- PROVIDE HEATING COIL AT TERMINAL UNIT DISCHARGE.
- BOX HEIGHT SHALL NOT EXCEED 20 INCHES.
- PROVIDE WITH 24V CONTROL TRANSFORMER.
- MERV 7 AIR FILTER AT FLENUM INLET.
- SINGLE POINT POWER CONNECTION.
- PROVIDE WITH 1/2" FOIL FACED INTERNAL INSULATION. INSULATION SHALL NOT BE FIBER TYPE EXPOSED TO THE AIRSTREAM.
- ACCEPTABLE ALTERNATE MANUFACTURERS: TRANE, PRICE, NAILOR.

EXHAUST FAN SCHEDULE

TAG	CFM	ESP	VOLTAGE	PHASE	MOTOR HP	Manufacturer/MODEL	Notes & Accessories
EF-1	75	.5	120 V	1		GREENHECK / SP-B90	2, 3
EF-2	200	.5	120 V	1		GREENHECK / G-070-VG	1, 4, 5, 6

NOTES & ACCESSORIES:

- FAN TO RUN CONTINUOUSLY DURING OCCUPIED HOURS.
- FAN TO BE CONTROLLED BY LIGHT SWITCH.
- HOODED WALL CAP.
- VARI-GREEN EC MOTOR WITH SPEED CONTROL DIAL.
- NEMA-1 TOGGLE SWITCH.
- 12" HIGH ROOF CURB.

ELECTRIC UNIT HEATER SCHEDULE

Mark	AVF-CFM	AVF-HP	AVF-RPM	Electric Heat	Electrical Service (Volts / Phase)	Manufacturer	Model
UH	270	1/20	1400	5	208V/1P	Marley Engineered Products	IUH - Industrial
UH	270	1/20	1400	5	208V/1P	Marley Engineered Products	IUH - Industrial
UH	270	1/20	1400	5	208V/1P	Marley Engineered Products	IUH - Industrial
UH	270	1/20	1400	5	208V/1P	Marley Engineered Products	IUH - Industrial
WH	-	-	-	1.5	120V/1P	Marley Engineered Products	AWH4000 Series

NOTES & ACCESSORIES:

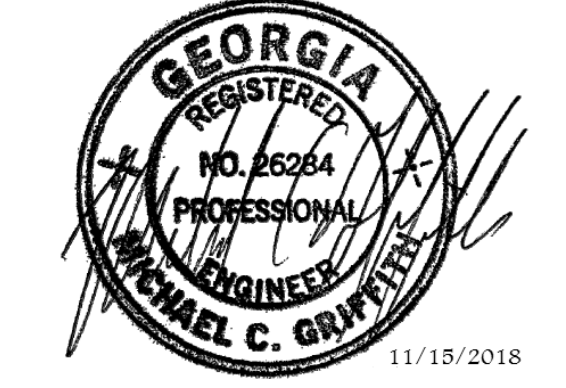
- PROVIDE WITH INTEGRAL THERMOSTAT.
- OR APPROVED EQUAL.
- PROVIDE INTEGRAL DISCONNECT WITH UNITS FROM MANUFACTURER.

OUTSIDE AIR CALCULATIONS

SPACE NAME	CLASSIFICATION	AREA (SF)	PEOPLE/1000SF	PEOPLE	CFM/PERSON	CFM/SF	OA (PEOPLE)	OA (SPACE)	CFM REQUIRED	EFFECTIVENESS FACTOR	TOTAL CFM REQUIRED
Corridor 204	Corridor	488	0	0	0	0.06	0.0	29.3	29.3	1	29.3
Office 202	Office	121	5	1	5	0.06	3.0	7.3	10.3	1	10.3
Meeting Room 205	Conference	622	50	31	5	0.06	155.5	37.3	192.8	1	192.8
Meeting Room 206	Conference	625	50	31	5	0.06	156.3	37.5	193.8	1	193.8
Waiting 203	Corridor	470	0	0	0	0.06	0.0	28.2	28.2	1	28.2
Office 201	Office	192	5	1	5	0.06	4.8	11.5	16.3	1	16.3
Entry 102	Corridor	365	0	0	0	0.06	0.0	21.9	21.9	1	21.9
Office 103	Office	249	5	1	5	0.06	6.2	14.9	21.2	1	21.2
Office 104	Office	156	5	1	5	0.06	3.9	9.4	13.3	1	13.3
Vestibule 101	Corridor	487	0	0	0	0.06	0.0	29.2	29.2	1	29.2
Weight Room 106	Weight Room	1602	10	16	20	0.06	320.4	96.1	416.5	1	416.5
Meeting Room 109	Conference	360	50	18	5	0.06	90.0	21.6	111.6	1	111.6
Meeting Room 110	Conference	184	50	9	5	0.06	46.0	11.0	57.0	1	57.0
Team Room 111	Conference	291	50	15	5	0.06	72.8	17.5	90.2	1	90.2
							ACU-1 TOTAL:		1231.6		
Gym	Gym	7436	0	0	0	0.3	0.0	2230.8	2230.8	1	2230.8
							ACU-2 TOTAL:		2300.0		
310 Room 1	Conference	311	50	16	5	0.06	77.8	18.7	96.4	1	96.4
311 Room 2	Conference	305	50	15	5	0.06	76.3	18.3	94.6	1	94.6
312 Room 3	Conference	307	50	15	5	0.06	76.8	18.4	95.2	1	95.2
313 Room 4	Conference	307	50	15	5	0.06	76.8	18.4	95.2	1	95.2
314 Room 5	Conference	313	50	16	5	0.06	78.3	18.8	97.0	1	97.0
Corridor 315	Corridor	625	0	0	0	0.06	0.0	37.5	37.5	1	37.5
							OAU-1 TOTAL:		515.8		



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Revisions

No.	DATE	DESCRIPTION

Date: 06/08/2017 Job No.: 1607008000

Sheet Title: HVAC SCHEDULES

M-002

PERMIT SET

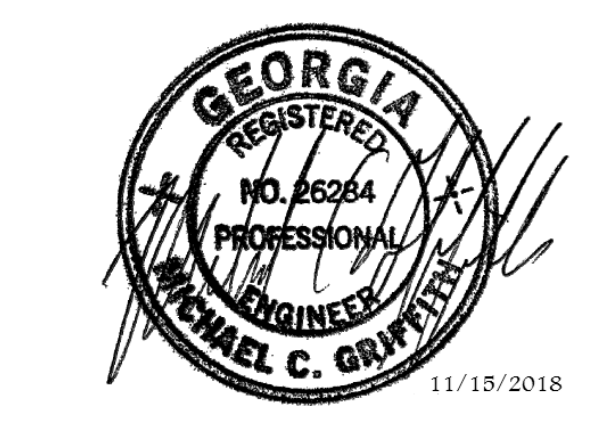


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FILE NAME: C:\Users\jacobson\Documents\Bent User Files\118265 - Johnson Park Gym New Central Isobornent SHEET NAME: GYM HVAC PLANS SHEET NUMBER: M-101 PROJECT NAME: JOHNSON PARK GYMNASIUM & NATATORIUM EXPANSION PLOTTED: 11/20/2018 2:02:13 PM



JOHNSON PARK GYMNASIUM & NATATORIUM EXPANSION

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06/08/2017	1607008000

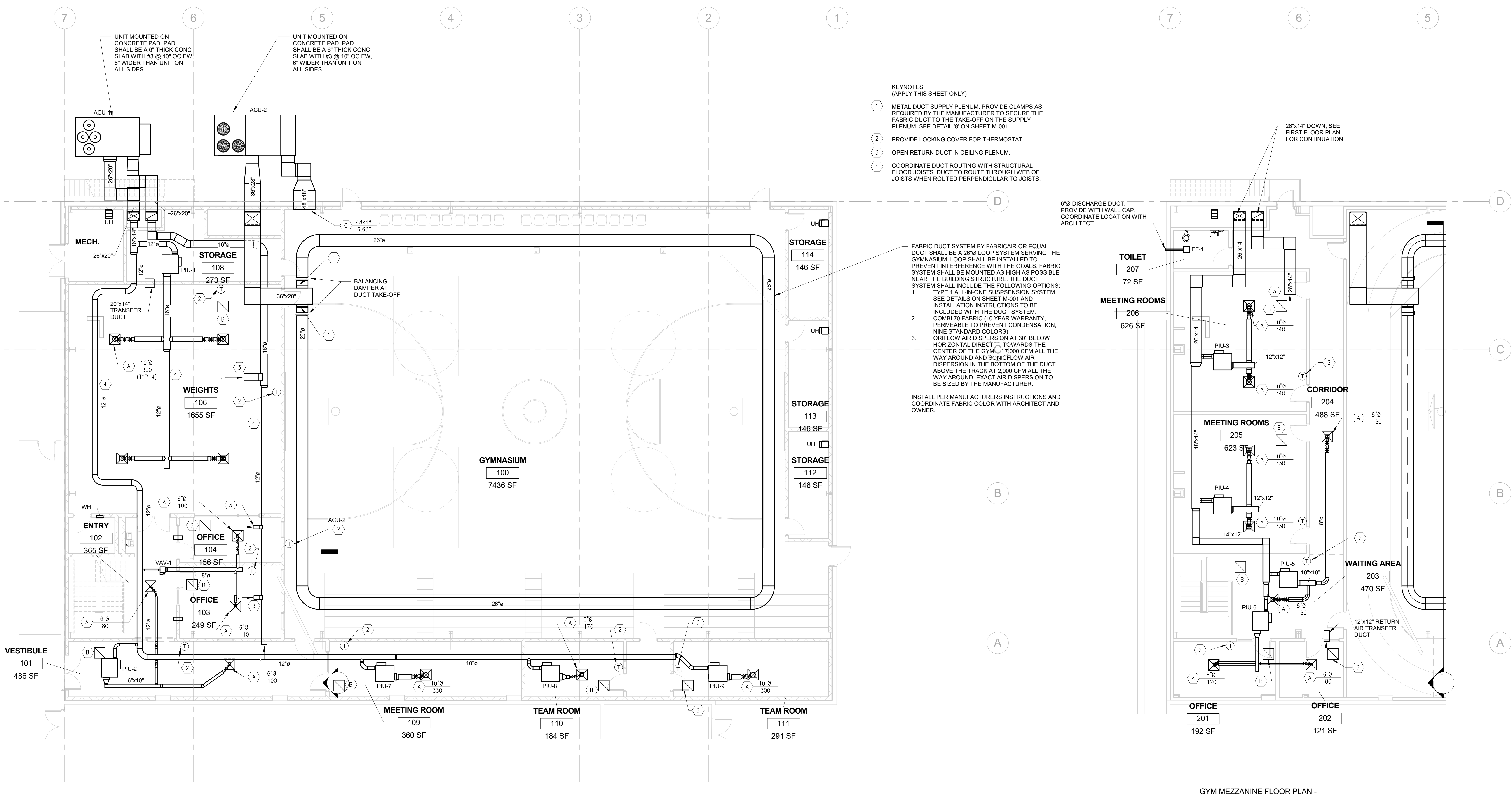
Sheet Title

GYM HVAC PLANS

Sheet No.

M-101

PERMIT SET



1 GYMNASIUM FLOOR PLAN - HVAC
M-101 1/8" = 1'-0"

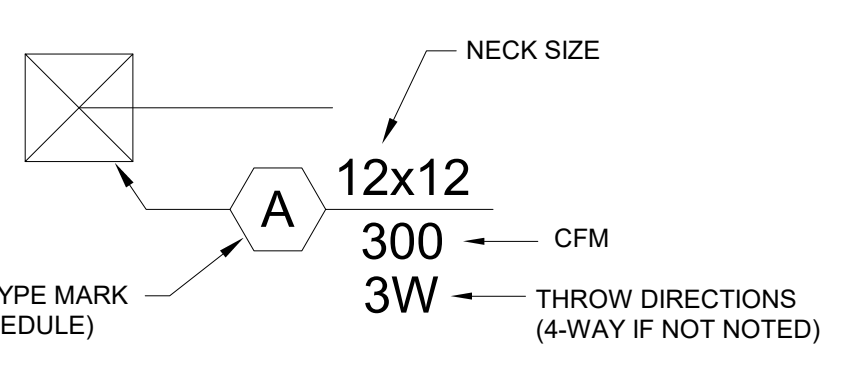
2 GYM MEZZANINE FLOOR PLAN - HVAC
M-101 1/8" = 1'-0"

- KEYNOTES:
(APPLY THIS SHEET ONLY)
- 1 METAL DUCT SUPPLY PLENUM. PROVIDE CLAMPS AS REQUIRED BY THE MANUFACTURER TO SECURE THE FABRIC DUCT TO THE TAKE-OFF ON THE SUPPLY PLENUM. SEE DETAIL '8' ON SHEET M-001.
 - 2 PROVIDE LOCKING COVER FOR THERMOSTAT.
 - 3 OPEN RETURN DUCT IN CEILING PLENUM.
 - 4 COORDINATE DUCT ROUTING WITH STRUCTURAL FLOOR JOISTS. DUCT TO ROUTE THROUGH WEB OF JOISTS WHEN ROUTED PERPENDICULAR TO JOISTS.

FABRIC DUCT SYSTEM BY FABRICAIR OR EQUAL - DUCT SHALL BE A 20'0" LOOP SYSTEM SERVING THE GYMNASIUM. LOOP SHALL BE INSTALLED TO PREVENT INTERFERENCE WITH THE GOALS. FABRIC SYSTEM SHALL BE MOUNTED AS HIGH AS POSSIBLE NEAR THE BUILDING STRUCTURE. THE DUCT SYSTEM SHALL INCLUDE THE FOLLOWING OPTIONS:

- 1. TYPE 1 ALL-IN-ONE SUSPENSION SYSTEM. SEE DETAILS ON SHEET M-001 AND INSTALLATION INSTRUCTIONS TO BE INCLUDED WITH THE DUCT SYSTEM. COMBI 70 FABRIC (10 YEAR WARRANTY, PERMEABLE TO PREVENT CONDENSATION, NINE STANDARD COLORS)
- 2. ORIFLOW AIR DISPERSION AT 30" BELOW HORIZONTAL DIRECT - TOWARDS THE CENTER OF THE GYM - 7,000 CFM ALL THE WAY AROUND AND SONICFLOW AIR DISPERSION IN THE BOTTOM OF THE DUCT ABOVE THE TRACK AT 2,000 CFM ALL THE WAY AROUND. EXACT AIR DISPERSION TO BE SIZED BY THE MANUFACTURER.

INSTALL PER MANUFACTURERS INSTRUCTIONS AND COORDINATE FABRIC COLOR WITH ARCHITECT AND OWNER.



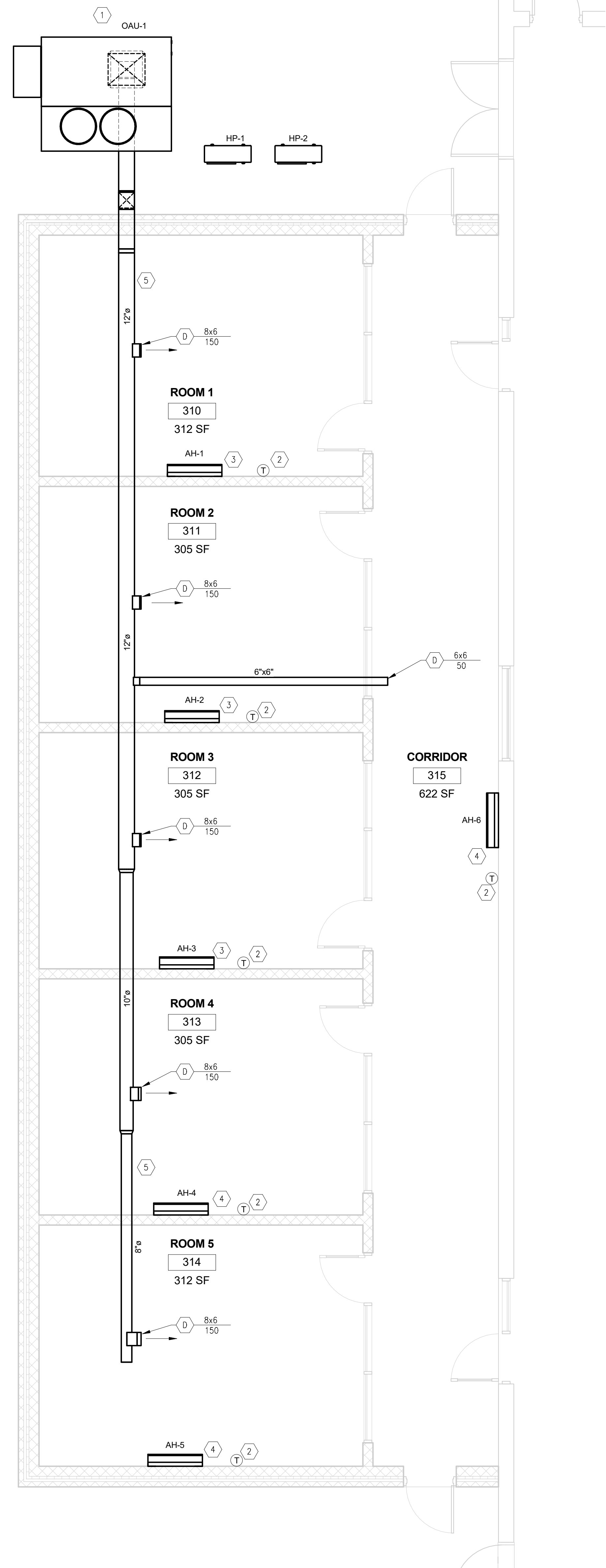
AIR DISTRIBUTION SCHEDULE	
MARK	DESCRIPTION
A	LOUVERED FACE S/A DIFFUSER: TITUS MODEL TDC-AA, NOMINAL 24" x 24" PANEL SIZE. WITH AIR BALANCING DAMPER. FRAME SUITABLE FOR LAY-IN T-BAR CEILING. ALUMINUM CONSTRUCTION. NOTES 1, 2, 3, 4. PROVIDE ROUND NECK OR SQUARE NECK AS REQUIRED BY THE APPLICATION - SEE PLANS.
B	PERFORATED FACE R/A PANEL: TITUS MODEL PXP, NOMINAL 24" x 24" PANEL SIZE. FRAME SUITABLE FOR LAY-IN T-BAR CEILING. ALUMINUM CONSTRUCTION. NOTES 1, 2, 3, 4.
C	SIDEWALL RETURN AIR GRILLE: TITUS MODEL 350R ALUMINUM CONSTRUCTION. NOTES 1, 2, 3, 4. PROVIDE ROUND NECK OR SQUARE NECK AS REQUIRED BY THE APPLICATION - SEE PLANS.
D	SIDEWALL SUPPLY AIR GRILLE: TITUS MODEL 272 ALUMINUM CONSTRUCTION. NOTES 1, 2, 3, 4. PROVIDE ROUND NECK OR SQUARE NECK AS REQUIRED BY THE APPLICATION - SEE PLANS.
E	PERFORATED FACE EXHAUST GRILLE: TITUS MODEL PAR, NOMINAL 12" x 12" PANEL SIZE. FRAME SUITABLE FOR GYP BOARD CEILING. ALUMINUM CONSTRUCTION. NOTES 1, 2, 3, 4. PROVIDE ROUND NECK OR SQUARE NECK AS REQUIRED BY THE APPLICATION - SEE PLANS.

- NOTES:
- 1. ALL DIFFUSERS, GRILLES & REGISTERS SHALL HAVE A BAKED OFF-WHITE ENAMEL FINISH.
 - 2. LISTED SIZE ON DRAWING IS NECK SIZE.
 - 3. OR EQUAL BY METALAIR OR OTHER AS PRE-APPROVED BY OWNER.
 - 4. VERIFY/COORDINATE FRAME TYPE WITH ARCHITECTURAL REFLECTED CEILING PLAN PRIOR TO ORDERING.



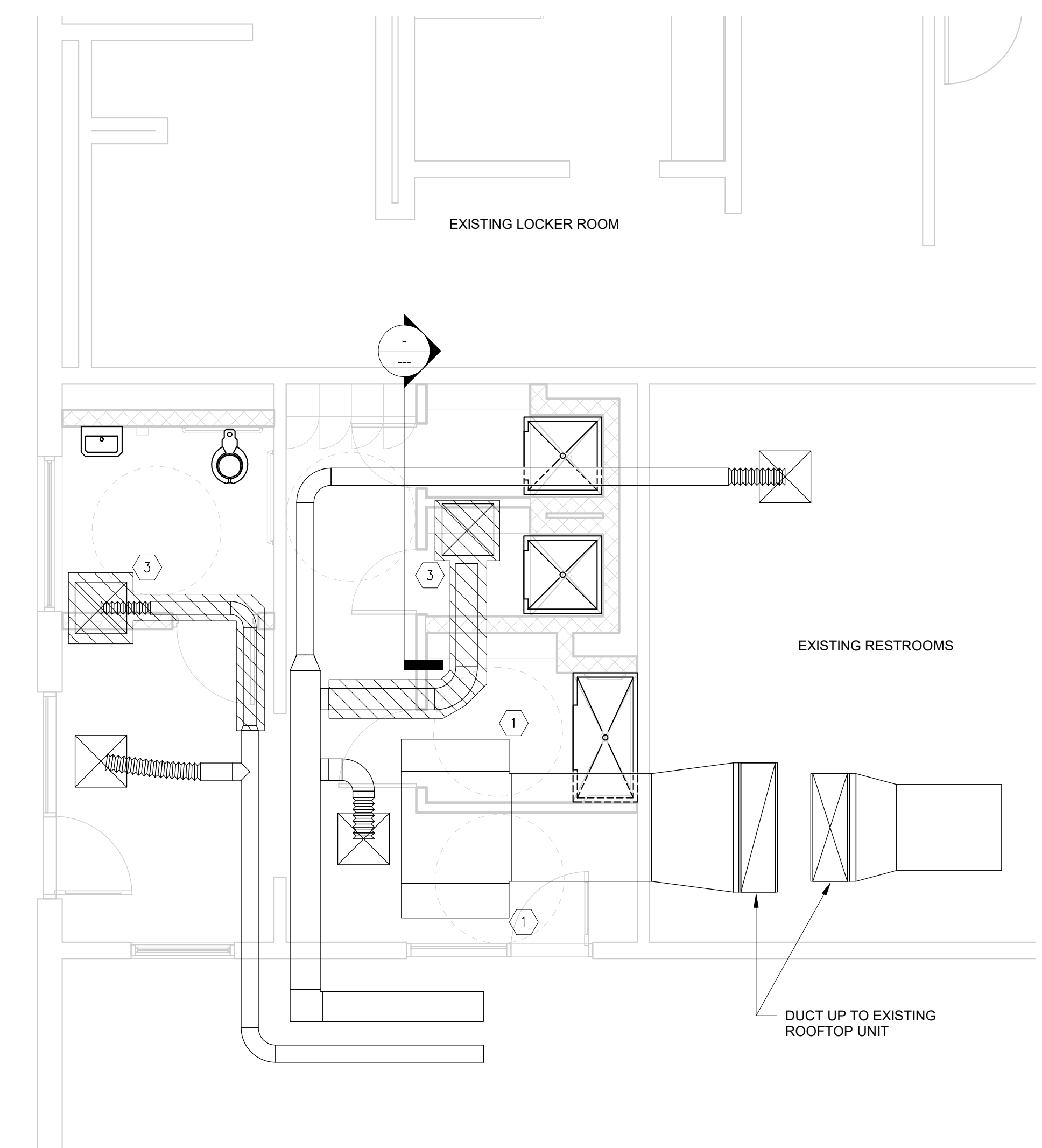
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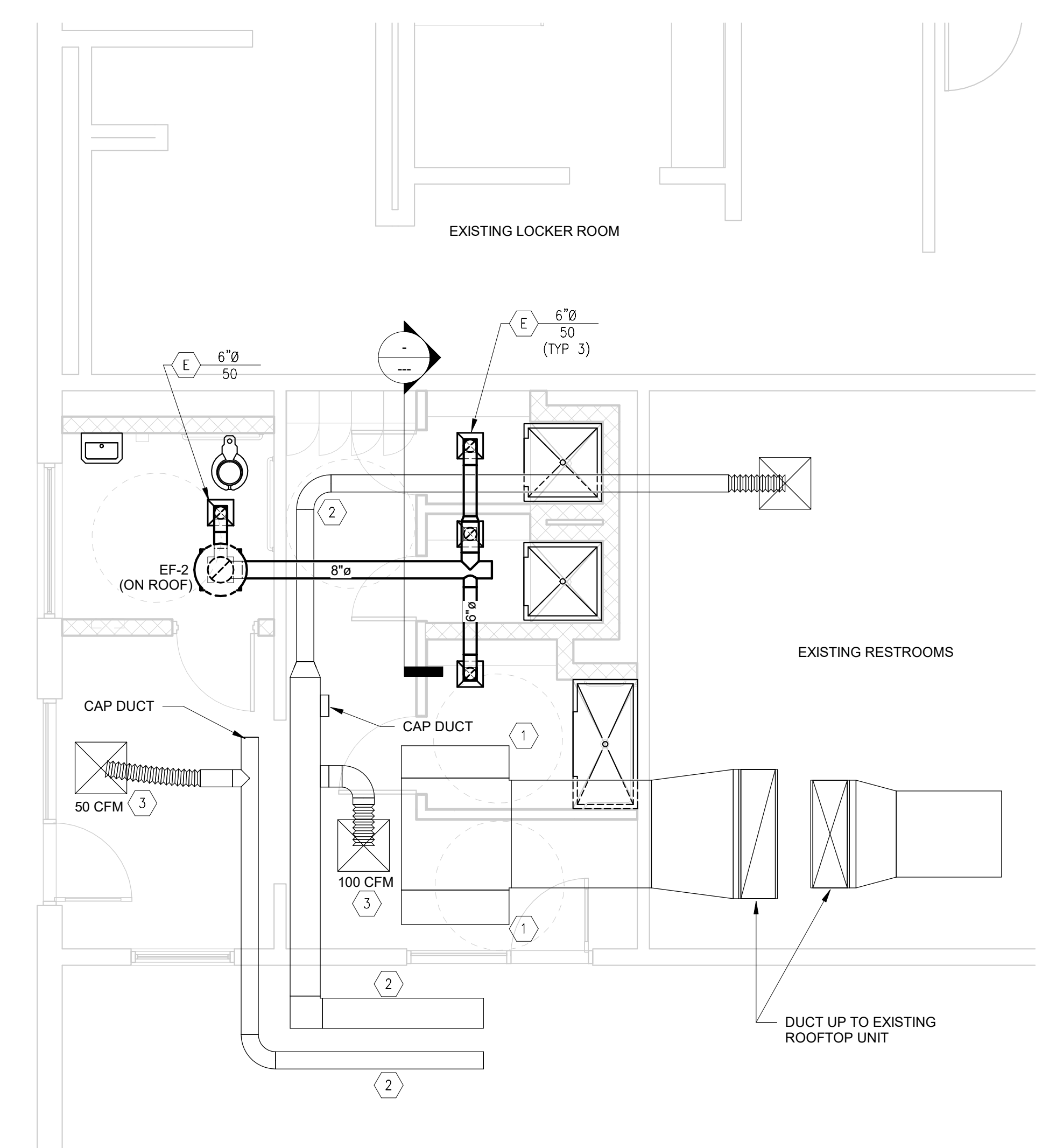
1
NATATORIUM ADDITION FLOOR
PLAN - HVAC
M-102 1/4" = 1'-0"

- KEYNOTES:
(APPLY THIS SHEET ONLY)
- 1 PROVIDE STAND FOR UNIT TO ELEVATE UNIT 4'-0" ABOVE GRADE TO ALLOW FOR SUPPLY DUCT CONNECTION UNDER UNIT.
 - 2 PROVIDE LOCKING COVER FOR THERMOSTAT.
 - 3 WALL MOUNT SPLIT SYSTEM INDOOR HEAT PUMP UNIT CONNECTED TO OUTDOOR HEAT PUMP CONDENSING UNIT HP-1 OUTSIDE.
 - 4 WALL MOUNT SPLIT SYSTEM INDOOR HEAT PUMP UNIT CONNECTED TO OUTDOOR HEAT PUMP CONDENSING UNIT HP-2 OUTSIDE.
 - 5 EXPOSED DUCTWORK TO BE ROUTED AS HIGH AS POSSIBLE BELOW ROOF STRUCTURE.



2
FAMILY CHANGING PLAN -
HVAC DEMO
M-102 1/4" = 1'-0"

- KEYNOTES:
(APPLY THIS SHEET ONLY)
- 1 EXISTING OPEN RETURN DUCT IN CEILING PLENUM TO REMAIN.
 - 2 EXISTING DUCTWORK TO REMAIN.
 - 3 EXISTING SUPPLY DIFFUSER TO BE REMOVED. CAP AND SEAL DUCT AT CONNECTION TO MAIN.



3
FAMILY CHANGING PLAN -
HVAC
M-102 1/4" = 1'-0"

- KEYNOTES:
(APPLY THIS SHEET ONLY)
- 1 EXISTING OPEN RETURN DUCT IN CEILING PLENUM TO REMAIN.
 - 2 EXISTING DUCTWORK TO REMAIN.
 - 3 EXISTING SUPPLY DIFFUSER. RE-BALANCE TO CFM NOTED.



JOHNSON PARK
GYMNASIUM &
NATATORIUM
EXPANSION

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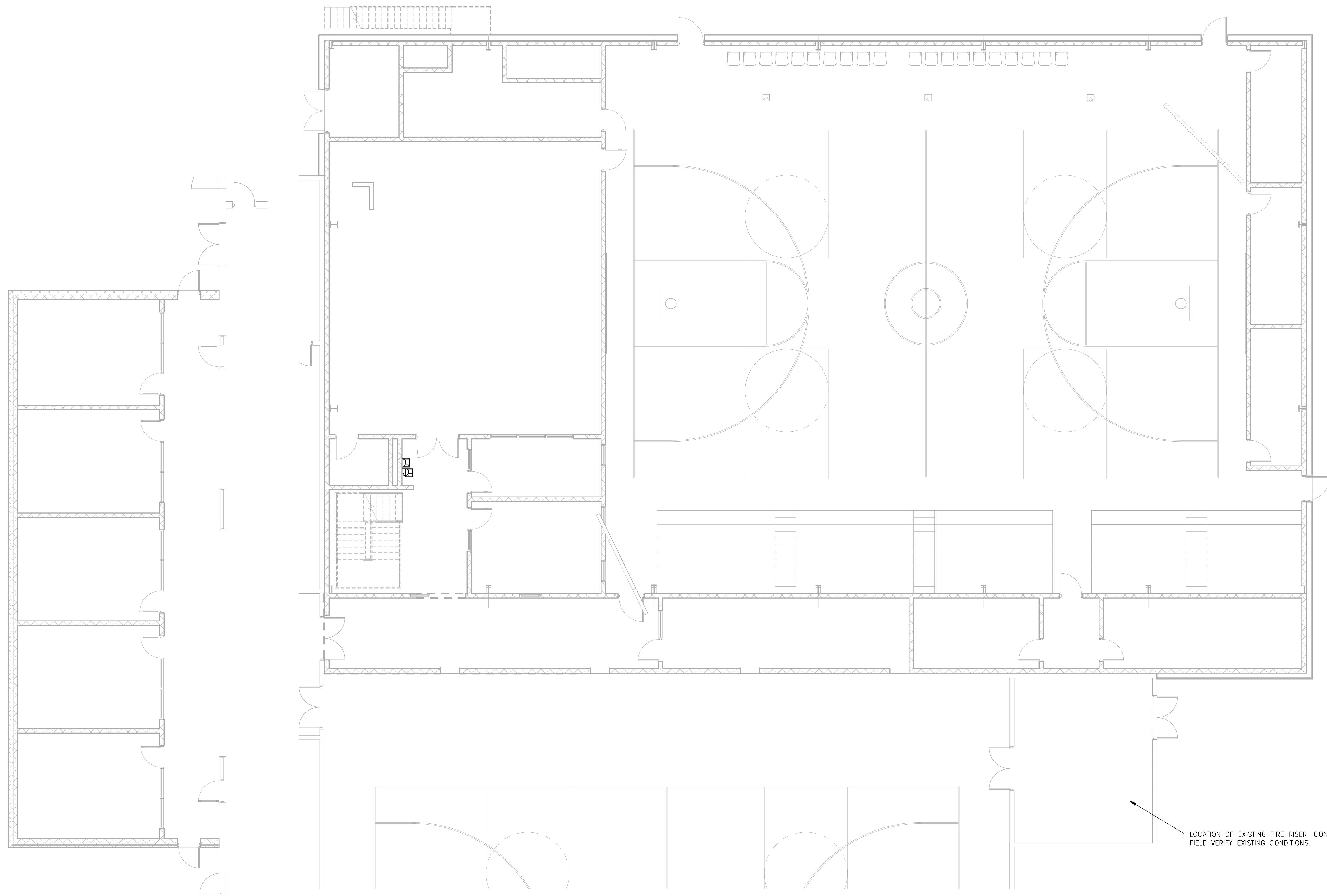
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FILENAME: C:\Users\lsoberman\Documents\Bent User Files\18066 - Johnson Park Gym New Central\lsoberman.plt SHEET NAME: FIRE PROTECTION PLAN SHEET NUMBER: FP-101 PROJECT NAME: JOHNSON PARK GYMNASIUM & NATATORIUM EXPANSION PLOTTED: 11/09/2018 2:01:48 PM



LOCATION OF EXISTING FIRE RISER. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS.

2
FLOOR PLAN - FIRE PROTECTION NATATORIUM ADDITION
FP-101/ 1/8" = 1'-0"

1
FLOOR PLAN - FIRE PROTECTION
FP-101/ 1/8" = 1'-0"

FIRE PROTECTION GENERAL NOTES

1. THIS BUILDING ADDITION SHALL BE FULLY SPRINKLERED PER THE REQUIREMENTS OF THE CURRENT ACCEPTED EDITIONS OF THE INTERNATIONAL BUILDING CODE, THE INTERNATIONAL FIRE CODE, GEORGIA 120-3-3, THE LOCAL AUTHORITY HAVING JURISDICTION, THE OWNERS INSURANCE UNDERWRITER AND THESE CONTRACT DOCUMENTS.
2. SHOP DRAWINGS SHALL BE PREPARED AND SUBMITTED TO THE PROJECT ENGINEER FOR HIS REVIEW AND COMMENTS. THE SPRINKLER SYSTEM SHALL BE DESIGNED TO THE AVAILABLE CITY WATER SUPPLY. THE CONTRACTOR SHALL HAVE A CURRENT WATER TEST (LESS THAN THREE MONTHS OLD) PERFORMED PRIOR TO STARTING DESIGN. THE CONTRACTOR SHALL ALSO HAVE A 24 HOUR TEST PERFORMED AT THE SAME TIME AS THE FLOW TEST. THIS 24 HOUR TEST SHALL BE USED TO ADJUST THE STATIC AND RESIDUAL PRESSURES TO USE FOR HIS CALCULATIONS.
3. THE SHOP DRAWINGS SHALL BE DRAWN AT 1/8" SCALE AS A MINIMUM AND SHALL INCLUDE ALL ITEMS LISTED IN NFPA #13 2010 PARAGRAPH 22.1.3. THE SUBMITTED SHOP DRAWINGS SHALL BEAR THE NUMBER AND SIGNATURE OF CONTRACTOR'S CERTIFICATE OF COMPETENCY HOLDER. THREE COPIES OF THE DRAWINGS AND CALCULATIONS BEARING THE STAMP OF APPROVAL FROM THE AUTHORITIES HAVING JURISDICTION SHALL BE PROVIDED TO THE ARCHITECT AND PROJECT ENGINEER PRIOR TO ORDERING, PURCHASING, FABRICATING, OR INSTALLING ANY SPRINKLERS.
4. THE CONTRACTOR SHALL COORDINATE THE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL FIRE PROTECTION EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN THEREON.
5. ALL FIRE PROTECTION AND EQUIPMENT SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.
6. ALL PIPING ABOVE GRADE SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE. PIPING SHALL BE HUNG FROM THE TOP CHORDS OF THE JOIST. HANGER TYPES AND LOCATIONS SHALL BE SHOWN ON THE SUBMITTED DRAWINGS. THE SYSTEMS SHALL BE RESTRAINED AGAINST A SEISMIC EVENT IF REQUIRED.
7. ALL FIRE PROTECTION EQUIPMENT SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS AND NFPA.
8. THE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY DESIGNED TO THE AVAILABLE WATER SUPPLY.
9. THE SPRINKLER SYSTEM SHALL BE DESIGNED FOR AN ORDINARY HAZARD GROUP I OCCUPANCY (15 GPM PER SQ. FT. OVER THE MOST HYDRAULICALLY REMOTE 1500 SQ. FT. PLUS 30% IF CEILING SLOPE IS GREATER THAN 2 IN 12 PLUS 250 GPM FOR HOSE STREAMS.) SPRINKLERS SHALL BE QUICK RESPONSE HOWEVER A REDUCTION IN THE REMOTE AREA FOR THE USE OF QUICK RESPONSE SPRINKLERS IS NOT ALLOWED. THE HYDRAULIC CALCULATIONS SHALL BE PREPARED USING THE AREA DENSITY METHOD, HOWEVER AS STATED BEFORE THE HYDRAULICALLY REMOTE AREA SHALL NOT BE REDUCED BELOW 1500/1950 SQ. FT. FOR THE SYSTEM. THE SPRINKLERS SHALL BE SPACED TO ANY AND ALL OBSTRUCTIONS. EXTENDED COVERAGE SPRINKLERS MAY BE USED. A GRID SYSTEM MAY BE USED IN THE GYM. THE MINIMUM PIPE SIZE SHALL BE 1-1/4", EXCEPT PIPES SUPPLYING ONLY ONE(1) SPRINKLER HEAD MAY BE 1".
10. ALL CONTROL VALVES IF REQUIRED SHALL HAVE A TAMPER SWITCH SUPPLIED AND INSTALLED BY THE SPRINKLER CONTRACTOR. WIRING OF THE SWITCHES WILL BE BY THE ELECTRICAL CONTRACTOR.
11. A WATER FLOW INDICATOR AND WEATHER-PROOF ELECTRIC BELL IS EXISTING.
12. THE SPRINKLER SYSTEM EXPANSION SHALL BE A WET PIPE SPRINKLER SYSTEM. A FIRE DEPARTMENT CONNECTION IS EXISTING ONE IS CURRENTLY SHOWN ON THE END WALL OF THE BUILDING. THE CONTRACTOR SHALL INSTALL THE FIRE DEPARTMENT CONNECTION WHERE LOCAL FIRE DEPARTMENT DESIGNATES AT NO ADDITIONAL COST TO THE OWNER.
13. WHERE THE REQUIREMENTS OF OWNERS AND THE OWNERS INSURANCE UNDERWRITERS AND THESE DOCUMENTS EXCEED THOSE OF THE NATIONAL FIRE CODES AND THE BUILDING CODE THEY SHALL PREVAIL.
14. THE CONTRACTOR SHALL TIE-IN TO THE EXISTING SPRINKLER RISER ABOVE ALL CONTROL VALVES AND ALARM DEVICES AND EXTEND A NEW FEED MAIN TO THE NEW ADDITION TO SUPPLY THE NEW SPRINKLERS. THIS MAIN AND THE NEW SPRINKLER PIPE SHALL BE HYDRAULICALLY CALCULATED AS DESCRIBED HERE IN.
15. ALL SPRINKLER PIPING SHALL BE INSTALLED AS HIGH AS THE BUILDING STRUCTURE WILL PERMIT IN AREAS WITHOUT CEILINGS. THE SPRINKLERS IN EXPOSED AREAS SHALL BE SPACED TO THE BUILDING STRUCTURE AND ALL OTHER TRADES.
16. SMALL FRAME QUICK RESPONSE UPRIGHT SPRINKLERS SHALL BE PROVIDED IN ALL AREAS WITHOUT CEILINGS.
17. 1" THROUGH 1-1/2" PIPE SHALL BE SCHEDULE 40. 2" AND LARGER PIPE MAY BE SCHEDULE 10 OR SCHEDULE 7. THREADED LIGHT WALL PIPE IS NOT ALLOWED.
18. SPRINKLERS HEADS SHALL BE:
 - A. BRASS UPRIGHT OR PENDENT IN AREAS OF EXPOSED STRUCTURE.
 - B. FULLY CONCEALED PENDENT IN AREAS WITH CEILINGS.
 - C. EXTENDED COVERAGE SPRINKLERS MAY BE USED.
 - D. HEAD GUARDS WILL BE PROVIDED FOR ALL SPRINKLERS EXPOSED TO CONTACT BY OBJECTS.
19. A PROPERLY COMPLETED CONTRACTORS MATERIAL AND TEST CERTIFICATE SHALL BE PROVIDED FOR THE INSIDE PORTION OF THE SYSTEM.
20. THE SPRINKLER SYSTEMS SHALL BE HUNG, SUPPORTED, IN ACCORDANCE WITH NFPA #13. HANGER LOCATIONS SHALL BE SHOWN ON THE SUBMITTAL DRAWINGS AT THE LOCATIONS THEY ARE REQUIRED TO BE PER NFPA 13.



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Date: 06/08/2017 Job No.: 1607008000

Sheet Title

FIRE PROTECTION PLAN

Sheet No.

FP-101

PERMIT SET



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PLUMBING NOTES

1. SCOPE OF WORK

- A. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
- B. ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES GOVERNING WORK OF THIS NATURE.
- C. THE CONTRACTOR SHALL, BEFORE SUBMITTING ANY PROPOSAL, EXAMINE THE PROPOSED SITE AND SHALL DETERMINE FOR HIMSELF THE CONDITIONS THAT MAY AFFECT THE WORK. NO ALLOWANCE SHALL BE MADE IF THE CONTRACTOR FAILS TO MAKE SUCH EXAMINATIONS.
- D. ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY ENGINEER OR ARCHITECT.

2. PERMITS

- A. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND PAY ANY AND ALL FEES.

3. SHOP DRAWINGS

- A. SUBMIT MATERIAL LIST AND SHOP DRAWINGS FOR MAJOR EQUIPMENT/FIXTURES TO THE ARCHITECT OR ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL SUBMIT THREE SETS OF SHOP DRAWINGS AND THEY SHALL BE CLEARLY LABELED.

4. DOMESTIC WATER SUPPLY PIPING

- A. UNDERGROUND: PROVIDE TYPE "K" SOFT DRAWN COPPER TUBING WITH BRAZED CONNECTIONS.
- B. ABOVE GROUND: PROVIDE TYPE "L" HARD DRAWN COPPER TUBING WITH 125 PSI SOLDER JOINTS, COPPER OR BRASS FITTINGS. ALL SOLDER TO BE "NO LEAD" TYPE.
- C. ALL HOT WATER PIPING TO BE INSULATED WITH 1" FIBERGLASS INSULATION.
- D. ALL COLD WATER PIPING TO BE INSULATED WITH 1/2" FOAM INSULATION.

5. SANITARY/STORM DRAINAGE AND VENT PIPING

- A. ABOVE GRADE:
 - 2" AND BELOW: SCH. 40 GALV. STL. PIPE WITH SCREWED ENDS OR SCH. 40 PVC WITH SOLVENT JOINTS OR DWV COPPER WITH SOLDER JOINTS. ALL SOLDER TO BE "NO LEAD" TYPE.
 - 3" AND ABOVE: SERVICE WT. CAST IRON WITH NO-HUB OR BELL AND SPOUT JOINTS; OR SCH. 40 PVC WITH SOLVENT JOINTS.
- B. BELOW GRADE: SERVICE WT. CAST IRON WITH BELL AND SPOUT JOINTS OR SCH. 40 PVC WITH SOLVENT JOINTS.
- C. PVC PIPING SHALL NOT BE USED IN AIR PLENUM CEILINGS AND SHALL NOT CROSS FIRE RATED WALLS, CEILINGS, OR FLOORS.
- D. DRAINAGE PIPING SHALL BE RUN AS STRAIGHT AS POSSIBLE AND SHALL HAVE LONG TURN FITTINGS.
- E. DRAINAGE PIPING 3" SIZE AND SMALLER SHALL RUN AT A UNIFORM GRADE OF AT LEAST 1/4" PER FOOT, AND PIPING LARGER THAN 3" SHALL BE RUN AT A GRADE OF NO LESS THAN 1/8" PER FOOT.
- F. ALL VENT PIPING SHALL BE SLOPED TO DRAIN BACK TO FIXTURES.
- G. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FLASHING OF THE VENT PIPING RUN THROUGH THE ROOF.

7. GAS PIPING

- A. SHALL BE SCHEDULE 40 BLACK STEEL PIPE WITH MALLEABLE IRON FITTINGS, WHERE GAS PIPING CONNECTS TO EQUIPMENT, IT SHALL BE PROVIDED WITH A DRIP LEG THE FULL SIZE OF THE RUNOUT, A 100# SHUT-OFF VALVE AND A UNION. GAS PIPING CONTAINING PRESSURE GREATER THAN 8 IN. W.G. SHALL BE SCHEDULE 40 BLACK STEEL PIPE WITH WELDED JOINTS.
- B. OUTDOOR PIPING SHALL BE PAINTED WITH RUST INHIBITING PAINT IN SAFETY YELLOW.

8. PIPE SUPPORTS

- A. ABOVE GRADE ALL PIPE SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN A NEAT AND WORKMANLIKE MANNER. THE USE OF WIRE AND PERFORMED METAL TO SUPPORT PIPES WILL NOT BE PERMITTED. SPACING OF PIPE SUPPORTS SHALL BE AS SPECIFIED IN THE INTERNATIONAL PLUMBING CODE.
- B. BELOW GRADE EARTH SHALL BE EXCAVATED TO A MINIMUM DEPTH WITH AN EVEN SURFACE TO INSURE SOLID BEARING OF PIPE FOR ITS ENTIRE LENGTH.
 - INTERIOR: THE PIPE SHALL BE INSTALLED (UNLESS OTHER-WISE SPECIFIED) A MINIMUM OF 4 INCHES BELOW THE BOTTOM OF THE SLAB AND SHALL NOT BE IN ANY DIRECT CONTACT WITH THE CONCRETE AT ANY POINT.
 - EXTERIOR: THE WATER PIPE SHALL HAVE A MINIMUM OF 42" OF COVER AND THE SANITARY WASTE PIPE SHALL HAVE A MINIMUM OF 24" OF COVER.

9. MISCELLANEOUS

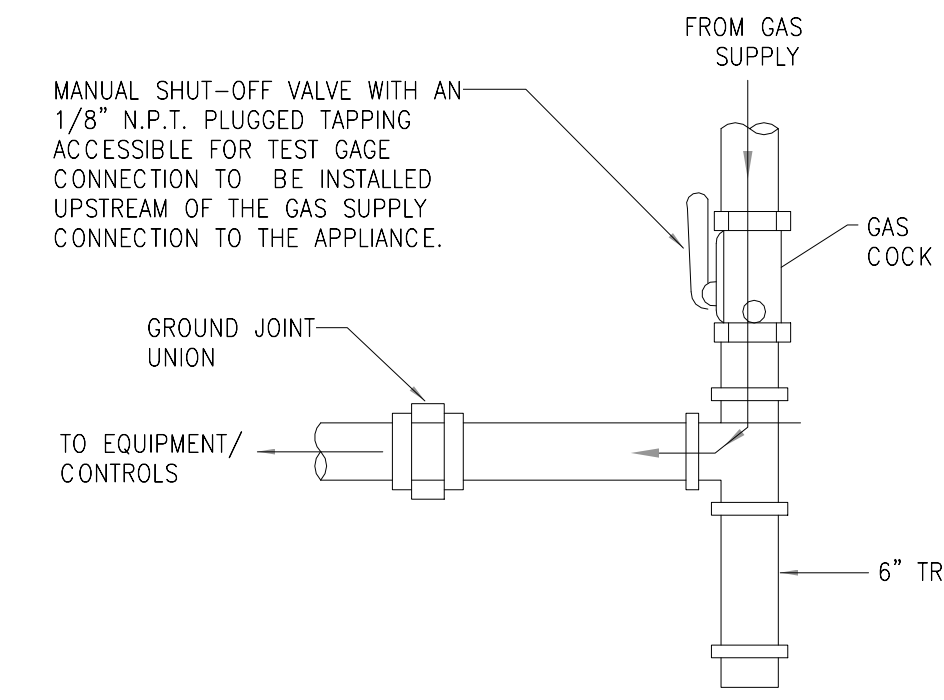
- A. COORDINATE INSTALLATION OF ALL ROOF FLASHING AT ROOF PENETRATION.
- B. DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, AND DIMENSIONS AT THE JOB SITE.
- C. THE PLUMBING PLANS ARE INTENDED TO BE DIAGRAMATIC, AND ARE BASED ON ONE MANUFACTURE'S EQUIPMENT. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR ALL THE DETAILS OF THE EQUIPMENT. THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE.

10. TESTING

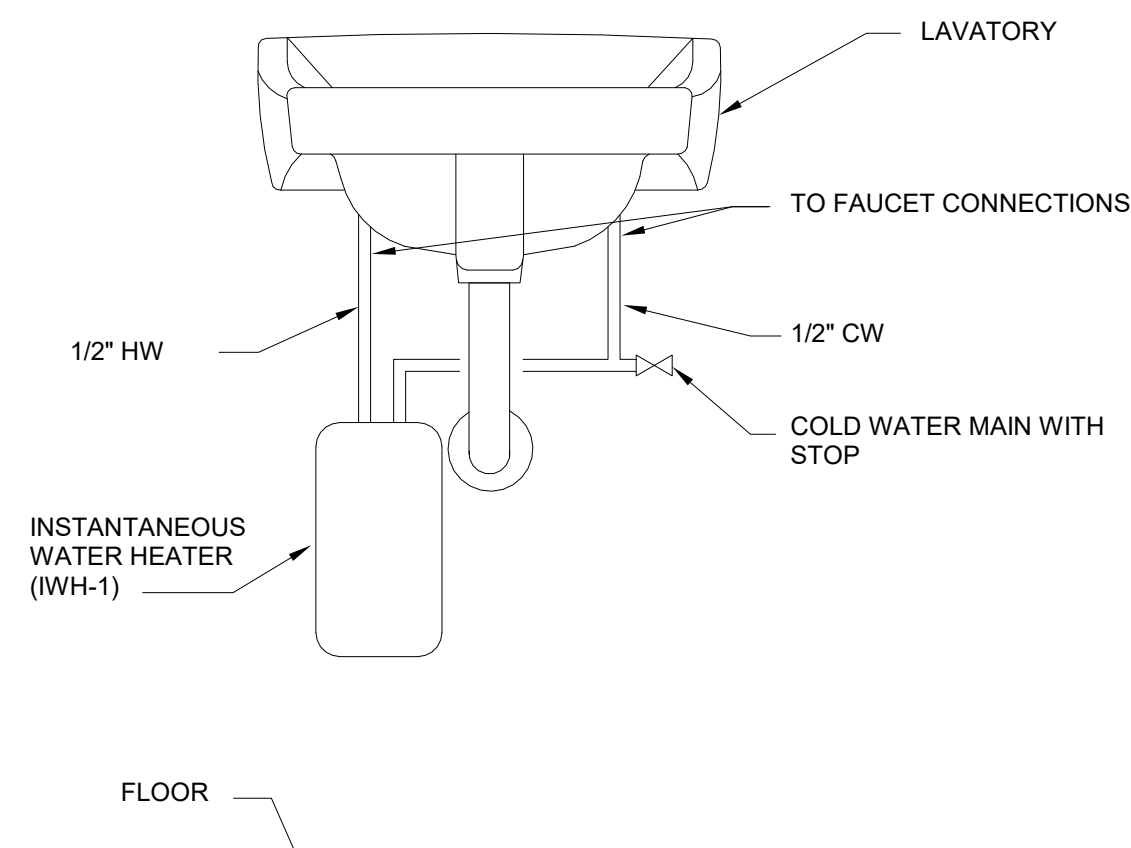
- A. PLUMBING SYSTEMS SHALL BE FLOW AND PRESSURE TESTED IN ACCORDANCE WITH STANDARD PRACTICE AND THE INTERNATIONAL PLUMBING CODE.

11. GUARANTEE

- A. MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THIS CONTRACTOR'S EXPENSE.
- B. FOR THE SAME PERIOD, THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED BY HIM.



1
P-001
N.T.S.



2
P-001
N.T.S.

Mark	DESCRIPTION	MANUFACTURER & CATALOG NO.	WASTE CONNECTION	CW CONNECTION	HW CONNECTION	VENT CONNECTION	Comments
P-1	WATER CLOSET - FLOOR MOUNTED	AMERICAN STANDARD - MADEIRA #3451.001	3"	2"		2"	FLOOR MOUNTED, FLUSH VALVE TYPE, 1.28 GPF, WITH 5805.100 OPEN FRONT SEAT, SLOAN ROYAL 111-1.28 MANUAL FLUSH VALVE, ELONGATED VITREOUS CHINA.
P-2	LAVATORY - WALL MOUNTED	AMERICAN STANDARD - LUCERN #0356.412	1 1/2"	1/2"	1/2"	1 1/2"	WHITE VITREOUS CHINA, FRONT OVERFLOW, SELF DRAINING, ADA COMPLIANT, SINGLE CENTER FAUCET HOLE. PROVIDE WITH KOHLER MODEL K-10215-4 SINGLE LEVER FAUCET; MCQUIRE PROWRAP MODEL PW2125 WC OFFSET WASTE WITH P-TRAP; GRID WASTE AND SUPPLIES ALL COATED WITH SEAMLESS ANTI-MICROBIAL PIPE INSULATOR MADE OF PVC RESIN; TEMPERING VALVE, WATTS USG-B OR EQUAL TO MAINTAIN 110 DEG F OR LESS TO LAVATORY.
P-3	SHOWER STALL	TILE SHOWER	3"	1/2"	1/2"	2"	TILE SHOWER BY ARCHITECT. PROVIDE JPRESSURE BALANCING MIXING VALVE AND HAND HELD SHOWER HEAD WITH FLEXIBLE SS HOSE AN IN-LINE VACUUM BREAKER.
P-4	SHOWER STALL - ADA	TILE SHOWER	3"	1/2"	1/2"	2"	TILE SHOWER BY ARCHITECT. PROVIDE JPRESSURE BALANCING MIXING VALVE AND HAND HELD SHOWER HEAD WITH FLEXIBLE SS HOSE AN IN-LINE VACUUM BREAKER.
P-5	WATER COOLER	ELKAY LZS8WSLP EZH20	1 1/2"	1/2"		1 1/2"	WALL MOUNTED, HI-LO WATER FOUNTAIN WITH FRONT/SIDE TOUCH PADS, 8 GPH CAPACITY, ADA COMPLIANT, 50 DEGREE F WATER SUPPLY AND BOTTLE FILLING STATION.

ITEM NO.	TEMPERATURE RISE AT 1.0 GPM FLOW	HEATING ELEMENT WATTS	ELECTRIC V./PH.	WATER CONN.	MANUFACTURER & MODEL	NOTES
IWH-1	30°F	4,160	208/1	3/8"	CHRONOMITE M-20L208	1
NOTES: 1. WATER HEATER FACTORY SET FOR 104°F SUPPLY TEMP. OR 109°F MAX.						

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Sheet Title
PLUMBING NOTES, SCHEDULES AND DETAILS

Sheet No.

P-001

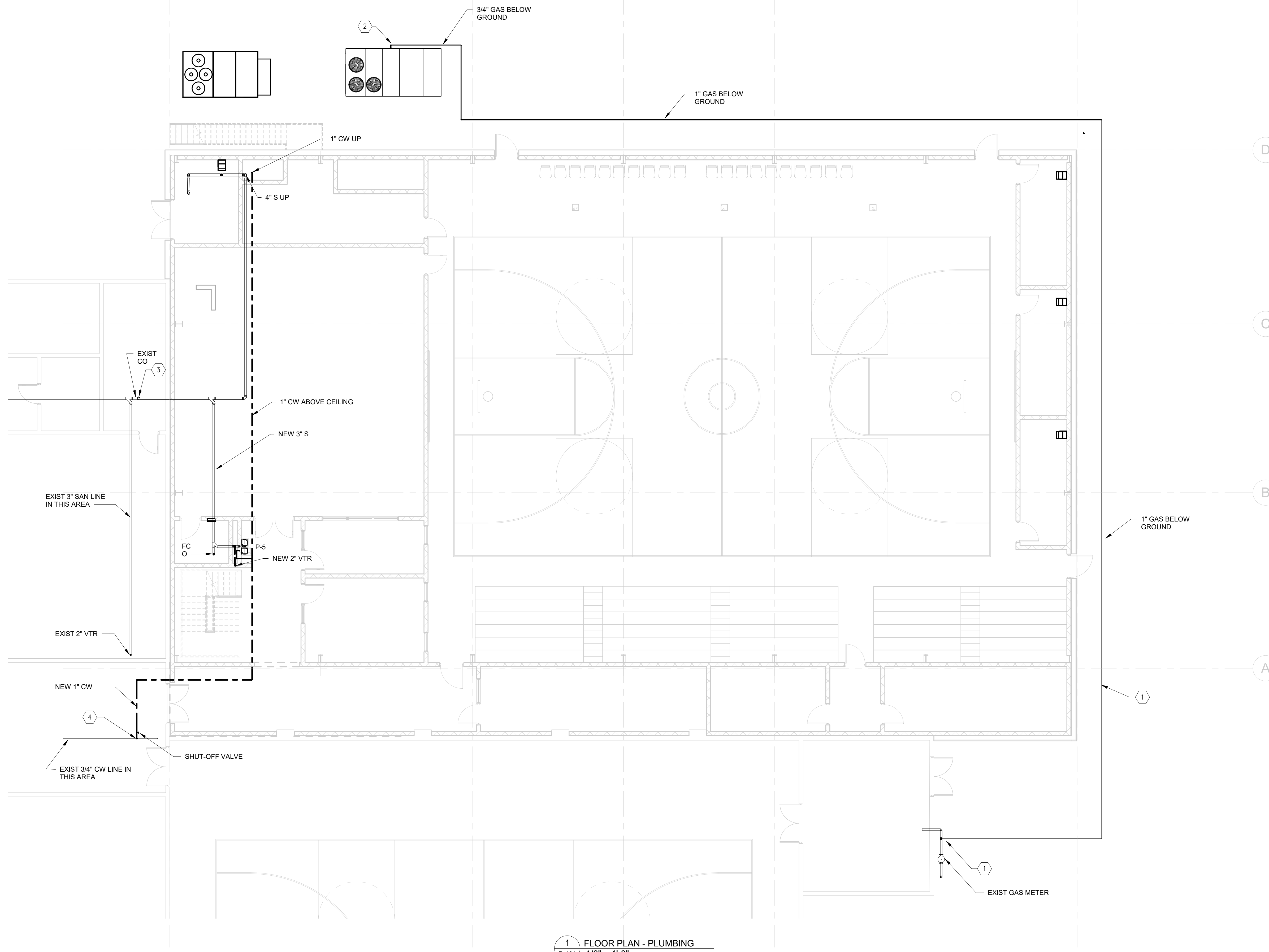
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 SHEET NAME: PLUMBING PLAN - SHEET NUMBER P-101 PROJECT NAME: JOHNSON PARK GYMNASIUM & NATATORIUM EXPANSION
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1 FLOOR PLAN - PLUMBING
P-101 / 1/8" = 1'-0"

KEYNOTES:
(APPLY THIS SHEET ONLY)

- 1 EXISTING GAS METER. CONTRACTOR TO VERIFY EXISTING GAS METER CAPACITY WITH THE GAS UTILITY AND MODIFY METER FOR ADDITIONAL GAS LOAD OF THE NEW HVAC EQUIPMENT. PROVIDE NEW GAS PIPE AT 2 PSI PRESSURE ROUTED UNDERGROUND TO NEW EQUIPMENT IN GENERAL LOCATION SHOWN. COORDINATE ROUTING OF GAS PIPING WITH EXISTING UTILITIES AND STORM DRAIN PIPING. SEE CIVIL DRAWINGS.
- 2 PROVIDE 2 PSI TO 7" W.C. PRESSURE REGULATOR AT GAS CONNECTION TO EQUIPMENT.
- 3 TIE NEW 3" SANITARY DRAIN LINE IN TO EXISTING SANITARY LINE AT THE EXISTING CLEANOUT IN THIS AREA. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING LINE FOR PROPER SLOPE OF NEW LINE. A PRELIMINARY MEASUREMENT INTO THE CLEANOUT INDICATES THAT THE BOTTOM OF THE PIPE IS APPROXIMATELY 38" BELOW THE FINISHED FLOOR.
- 4 TIE NEW 3/4" CW LINE INTO EXISTING CW LINE IN THIS AREA. CONTRACTOR TO VERIFY EXACT LOCATION OF EXISTING LINE. PROVIDE SHUTOFF VALVE AT CONNECTION.

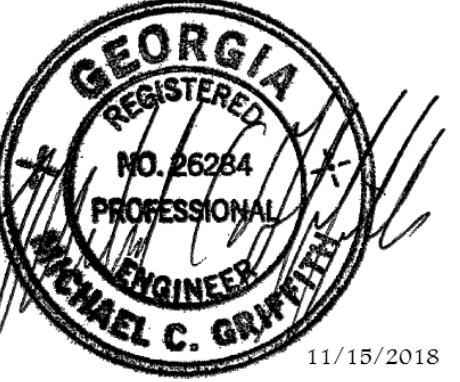
GAS PIPE SIZING SUMMARY

SIZING BASED ON NATURAL GAS AT 0.6 SPECIFIC GRAVITY AT 2 PSI DELIVERY PRESSURE AND 0.5 PSI PRESSURE DROP.

MBH INPUT (SPACE HEATING)	350
MBH INPUT (WATER HEATING)	0
MBH INPUT (COOKING)	0
DEVELOPED LENGTH (FEET)	250
GAS PRESSURE AT APPLIANCE	13" WC OR LESS

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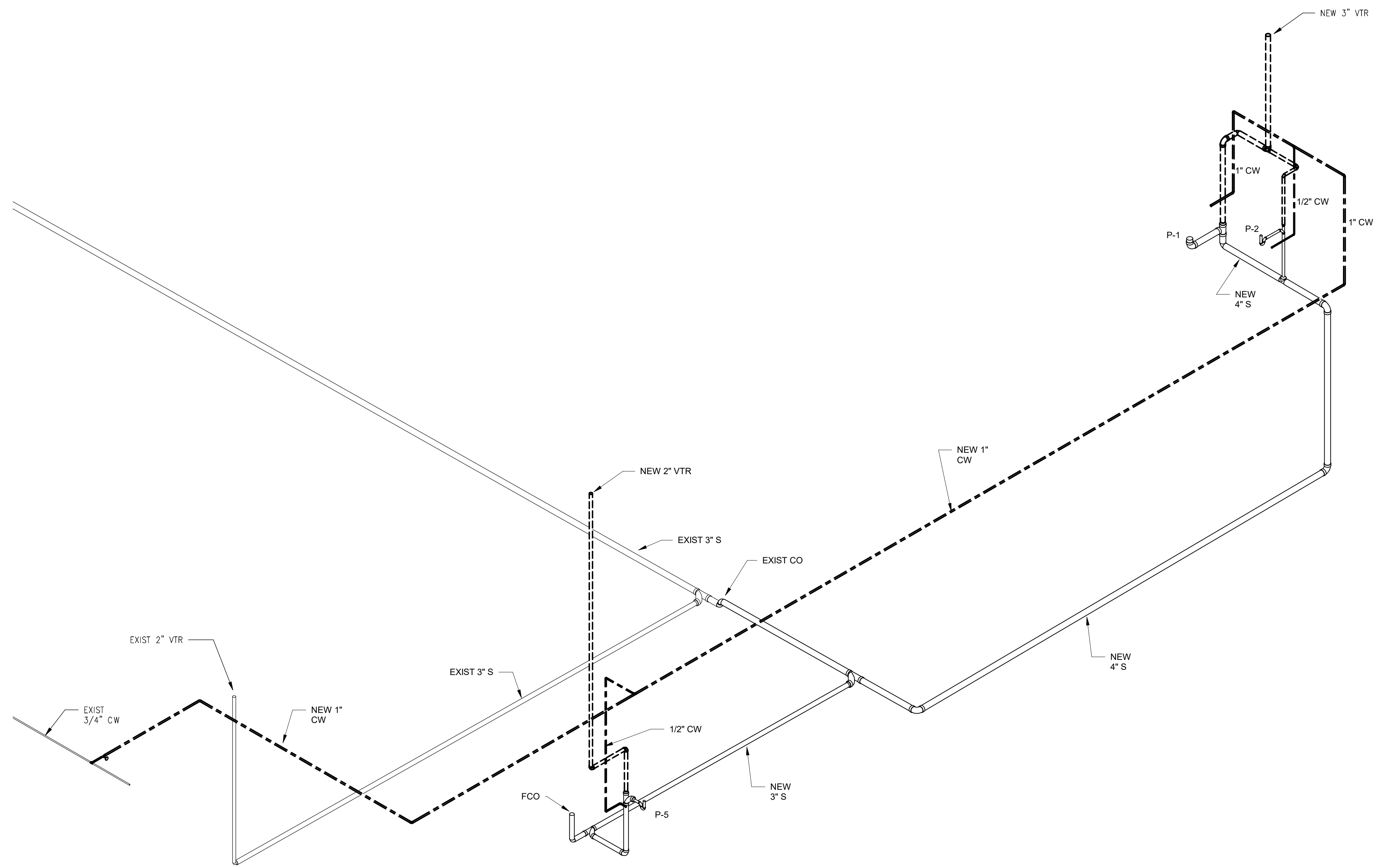
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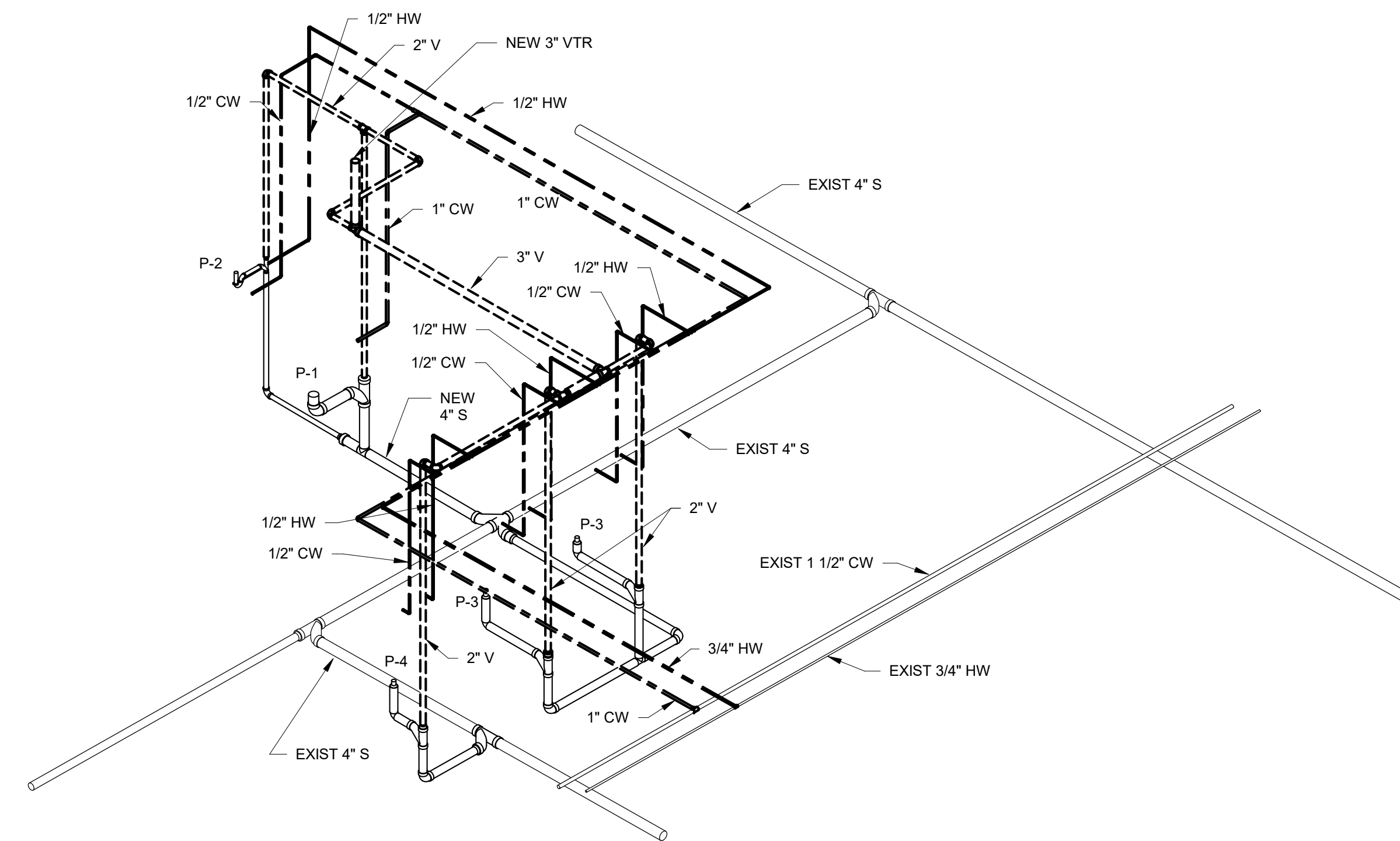
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1 GYM PLUMBING RISER DIAGRAM P-103



2 FAMILY CHANGING PLUMBING RISER DIAGRAM P-103

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PLUMBING RISER DIAGRAMS

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