



The City of

Alliance

"The Carnation City"

Ohio 44601-2415

504 E. Main Street

Dept. of Engineering, Building & Zoning

Phone: (330) 823-5122

Email: Eng.bld.zon@allianceoh.gov

SITE PLAN CHECKLIST

Project: _____ Date: _____

The following information **MUST** be included with all requests for Site Plan submitted for review and processing in order to constitute a complete Site Plan package. Incomplete applications will not be processed.

<p>Complete Site Plan Package Includes:</p> <p>___ This completed form</p> <p>___ Application Fee (please call the office for calculation of fee)</p> <p>___ Planning Commission Application</p> <p>___ 10 Copies of the Plan</p> <p>___ 3 Reduced Copy of Plans 11"x17"</p> <p>___ Electronic (PDF) Set of Plans</p>
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Please check the following items to ensure the plan has complied with the City of Alliance's Site Plan Requirements. These are the minimum requirements. The applicant is responsible to provide any and all other information that is pertinent to the proposed Site Plan change. All items must be checked unless an item is not applicable to this particular project; whereas, "N/A" should be written beside the box. Failure to include all applicable items will constitute an incomplete submittal.

PLAT REQUIREMENTS:

- All sheets must be either 24"x36" or 18"x24". A larger sheet size must be approved prior to submittal.
- The drawing must be appropriate for the detail of the plan. The scale must be either 1"=10', 20', 30', 40', 50', 60' or 100'. A different drawing scale must be approved prior to submittal.
- The title page or the first page of the set of drawings must include a signature block for the City Engineer AND the following note: The TWO blocks shall be similar to the following boxes:

<p>Approved by the City of Alliance Engineer this ___ Day of _____, 20__.</p> <p>_____</p> <p>City of Alliance Engineer</p>
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<p>Only approved plans signed by the City Engineer are to be used for construction.</p>
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- All plan sheets must be stamped and signed by a Professional Engineer licensed to practice in the State of Ohio. (The Existing/Demolition Plan can be stamped and signed by a Professional Surveyor licensed to practice in the State of Ohio).
- All plans must be computer generated. Copies of the final set of plans must be submitted in a ".dwg" format on a CD prior to the plans being signed.

- Site plans must be referenced to the Stark County Mapping System. Notate or list that “These design plans reference the Stark County Mapping System” on the plans. Please contact the Engineer’s Office at 330-823-5122 for reference points for your project location.
- All plan sheets must include a title block, date, revision block, sheet number and scale. The title block shall include the name of the project, lot or outlot number and the names of the design firm and developer.

The following plan sheets must be included, as well as every applicable item on each sheet. The sheets may not be combined unless approval is granted by the City Engineer’s Office prior to plan submittal. Incomplete submittals will not be processed.

EXISTING/DEMOLITION PLAN

- Show existing roadway’s edge of pavement and/or curbing.
- Show and label the road right of way as “R/W”.
- Show and label intersecting roadways with right of way widths along with the bearings and distances of the centerlines.
- Show all existing structures such as, but not limited to, hydrants, utility poles, manholes, inlets, etc.
- Location of existing buildings.
- Existing drives adjacent to the site or across the street.
- Show and label all existing easements.
- Show existing vegetation.
- Show existing sidewalks.
- Show lot lines with bearings and distances.
- Label the site’s parcel number, City Lot or Outlot number, zoning category, owner’s name, and acreage of the site.
- Label adjacent properties’ parcel numbers, City Lot or Outlot numbers, zoning category, owner’s names.
- Show and label existing wetlands, streams, ponds, etc.
- Show and label existing contours at 1' intervals. Contours shall extend a minimum of 100' outside the site.

SITE PLAN

***For sites disturbing over one (1) acre, the SWPPP must also be independently submitted to, and approved by, the Stark County Soil and Water Conservation District. The SCSWCD will coordinate a pre-construction meeting with the developer before any site work is to take place.**

- Show existing items with a light line type and the proposed items with a bolder line type.
- Show the existing and proposed roadway edge of pavement and/or curbing.
- Show and label the road right of way as “R/W”.
- Show and label intersecting roadways with right of way widths along with the bearings and distances of the centerlines.
- Show all existing structures such as, but not limited to, hydrants, utility poles, signs, manholes inlets, etc.
- Location of existing buildings to remain.
- Show existing drives adjacent to the site or across the street.
- Show and label all easements.
- Show and label all setback lines.
- Show existing sidewalks.
- Show the location of the parcel with respect to the intersection of two roadways (this may be done with a dimensional tie).
- Show and label proposed sidewalks and curb ramps.
- Show the proposed building and label the square footage and finish floor elevation.
- Show and label all proposed paved areas while stating the type of pavement.
- Show and label all curbing, steps, retaining walls, etc.
- Show and label all landscaped areas.
- Show and label all fencing.
- Show the required number of parking spaces along with the actual number of parking spaces. Show how the required number was determined.

- Show the number and size of parking spaces. Dimension spaces and aisles.
- Show all proposed pavement markings and signs.
- Show proposed structures that are visible at the ground surface (catch basins, manholes, etc.).
- Show location of detention/retention area.
- Show and label the dumpster location with enclosure and its height listed.
- Show loading zones.
- State the radiuses of all curves.
- Show a north arrow on the drawing.
- Dimension all structures and tie the corners to property and/or right-of-way lines.

GRADING PLAN

- Show the existing and proposed roadway edge of pavement and/or curbing.
- Show and label the road right of way as "R/W".
- Show and label the benchmarks that will be utilized for the site.
- Show and label the existing and proposed structures that can be seen at the surface. Manholes and catch basins must include rim or top of casting elevations.
- Location of existing buildings to remain with finish floor elevations labeled.
- Existing drives adjacent to the site or across the street.
- Show and label existing and proposed sidewalk.
- Show and label existing and proposed wetlands, streams, ponds, drainage swales, etc.
- Show and label existing and proposed contours at one foot intervals in the site area as well 100' outside the site. The line type should be bold for proposed contours such that they are distinguishable from the existing contours. All contours existing and proposed must be labeled.
- Show proposed spot elevations where necessary.
- Show the location of the proposed building with the square footage and finish floor elevations labeled.
- Show all and label all proposed paved areas.
- Show and label all curbing, steps, retaining walls, etc.
- Show the location or the detention/retention area. (Maximum side slope 3:1)
- State whether the parcel is in a flood zone. If so, show the extent of the floodplain.
- Handicapped parking spaces and access aisles shall not exceed a 2% slope in any direction.
- Minimum pavement slope is 0.50% and maximum pavement slope is 10.00%.
- Show rock channel protection.

UTILITY PLAN

- Show the existing and proposed roadway edge of pavement and/or curbing.
- Show and label the road right of way as "R/W".
- Show and label the existing and proposed structures that can be seen at the surface. Manholes and catch basins must include rim or top of casting elevations and also invert elevations.
- Show and label existing and proposed sanitary and storm sewer pipes with the length, type, and slope of pipe.
- Location of existing buildings to remain with finish floor elevations labeled.
- Show existing drives adjacent to the site or across the street.
- Show and label existing and proposed sidewalk.
- Show and label existing and proposed wetlands, streams, ponds, drainage swales, etc.
- Show the location of the proposed building with the square footage and finish floor elevations labeled.
- Show and label all proposed paved areas.
- Show and label all curbing, steps, retaining walls, etc.
- Show the location or the detention/retention area.
- Show and label all existing and proposed utilities. Also show the location of any connection and meters.
- The minimum allowable depth of a waterline is 5 feet.
- The minimum vertical separation between sanitary sewer and a water line is 18". The min. horizontal separation is 10 ft.
- The minimum acceptable pipe size in the City right of way is 12" and must be RCP or PVC.

- Show rock channel protection.
- If there is to be a fire line inside the building it must have a reduced pressure backflow with detector check. The domestic line must have a reduced pressure backflow.
- Pipe that is used for the waterline must be Ductile Iron Pipe Class 52 or “k” copper.
- The domestic and fire lines must be split and be separate lines at the right of way and have a shut off valve provided at that point.

LIGHTING PLAN

- Provide a lighting plan showing all light locations, photometric diagrams and light fixture details.

SWP-3 PLAN

- For sites over one (1) acre a permit with the EPA for stormwater pollution prevention must be obtained. A copy of the NOI (Notice of Intent) and the EPA’s approval letter must be submitted to the City. The City must receive a letter from the Stark County Soil and Water Conservation District stating that a SWP3 plan has been reviewed and approved for this project prior to the City’s approval. All sites (more or less than one acres) must comply with City regulations.
- Location map showing the site in relation to surrounding area. Clearly indicate the location of receiving streams and/or surface waters.
- Indicate the limits and show the acreage of earth disturbing activity.
- Show borrow, spoil and topsoil stockpile areas.
- Include existing and proposed contours.
- Delineate drainage watersheds indicating acreage of each area.
- Include a narrative describing the overall sediment and erosion control scheme for the site.
- Show locations of all lakes, ponds, surface drainage patterns, wetlands, springs, etc. on or within 200 ft of the site.
- Show locations of all existing and proposed buildings, roads, utilities, parking facilities, etc.
- Include a schedule for implementing temporary and permanent erosion and sediment control practices.
- Show the location of all erosion and sediment controls and stormwater management practices.
- All structural practices should be explained with detail drawings and specifications.
- The following note must appear on the plan: “The contractor shall prevent and/or reduce and control soil erosion resulting from the proposed improvements. The use of silt fencing, jute matting, temporary seeding, silt checks, inlet protection around all catch basins, stabilized construction entrance(s), etc. will be required. Sediment control structures/devices shall be installed in accordance with the latest edition of the manual Rainwater and Land Development – Ohio’s Standards for Stormwater Management, Land Development and Urban Stream Protection. Sediment control devices must be installed prior to beginning any construction activity. The contractor shall be responsible for continued inspection and maintenance of all sediment control devices. The contractor shall follow the requirements set forth on the approved stormwater pollution prevention plan if applicable, or as detailed on the construction plans, as specified by the City of Alliance”.

DETAIL SHEET(S)

- Contact the Engineering & Building Department for standard details and notes.

SUPPORTING DOCUMENTATION

- Supporting Documentation must be submitted at the time of plan submittal.**

STORM WATER RUNOFF CALCULATIONS

- The storm water runoff shall be submitted in report form. The post-developed rate of runoff is not permitted to exceed the pre-developed rate of runoff. The following are minimum necessary items that shall appear in the report:
- Summary of the existing conditions including the type of vegetation, drainage area, the direction of flow, offsite flow, etc.
- Summary of proposed features such as storm sewers, detention/retention basins, underground detention systems, drainage swales, area of outlet, etc.
- Summary of the results for the 2, 5, 10, 25, 50, and 100-year storm events including pre-developed rate of runoff, post-developed rate of runoff, critical storm (where applicable), allowable rate of discharge, actual discharge, elevation reached in the detention/retention basin.
- Provide a soils map.
- Pre-developed and post-developed drainage maps.
- Calculations supporting time of concentrations for both pre and post-developed conditions.
- Determination of the runoff curve for both pre and post-developed conditions.
- Calculation of the pre and post developed flow for the 2, 5, 10, 25, 50, and 100-year storms. The method shall be appropriate for the size of the drainage area.
- Calculations supporting the detention/retention basin volume.
- Outlet structure(s) used and the calculations for each structure.
- Routing of the 2, 5, 10, 25, 50, and 100-year storms through the basin.

STORM SEWER SIZING

- Pipe sizing shall be done in accordance with the ODOT Location and Design Manual (rational method) for a 10-year storm event and checking the hydraulic grade line for the 25-year storm event.
- Provide a clearly defined drainage map with calculations.

LANDSCAPING PLAN

- Location, sizes, and types of existing trees five inches or greater in diameter, measured at one foot off the ground, before and after the proposed development.
- Tree replacement plan.
- Show screening requirements meeting requirements of the Planning and Zoning Code Chapter 1136, Landscaping, Screening, and Planting.

BUILDING AND STRUCTURE DETAILS

- Location, height, and outside dimensions of all proposed buildings or structures.
- Indication of the number of stores and number of commercial or office units contained in the building.
- Building floor plans.
- Total floor area.
- Location, size, height, and lighting of all proposed signs.
- Proposed fences and walls, including typical cross-section and height above the ground on both sides.
- Building facade elevations, drawn to a scale of one inch equals four feet, or another scale approved by the Administrative Official and adequate to determine compliance with the requirements of this Ordinance. Elevations of proposed buildings shall indicate type of building materials, roof design, projections, canopies, awnings and overhangs, screen walls and accessory buildings, and any outdoor or roof-located mechanical equipment, such as air conditioning units, heating units, and transformers.
- Provide plumbing sheet with backflows shown.

ROCK CHANNEL PROTECTION

- Include calculation sheets used to determine size and type of rock channel protection

DRAINAGE SWALE AND DITCHES

- Include calculations used to determine size, slope, and type of lining for drainage swales.
- Calculations shall be done in accordance with ODOT’s drainage design for open water carriers.

CULVERTS

- Include calculations used to determine size, slope, and type headwalls for drainage culverts.
- Calculations shall be done in accordance with ODOT’s drainage design for culverts.

RETAINING WALLS

- Include design calculations for all walls over 3' in height.
- Provide a site/grading blowup of the wall location showing all pertinent information, including all proposed and existing utilities and structures.
- Provide all details and specifications.

The Engineering & Building Department will review the Site Plan Request when it has been processed. If there are any comments, the applicant will receive the comments by fax and mail. Two copies of the revised plan must be submitted with a response letter addressing each comment. If a response letter is not received, the plan will not be reviewed. Ample time should be given to allow for review of the resubmittals. *(The week of Planning Commission is typically insufficient time to review the resubmittals prior to Planning Commission).*

Cost of publication to be paid by: _____

Name and address: _____

I do hereby attest that all above applicable items have been incorporated into the plan. I understand that failure to include all applicable items will constitute an incomplete submittal, which in turn will not be processed.

Signature of the Applicant

Date

City of Alliance Acceptable Water Service Materials

- ¾”, 1”, 1½”, 2”
 - Main to curb box
 - Type “K” copper
 - Curb box to meter
 - Type “K” copper
 - Polyethylene service tubing (PE)-Polyethylene tubing shall be copper tube size (CTS), SDR 9, with a minimum pressure class of 200 psi and meet standards ASTM-D2737 PE4710 and AWWA C901**
 - Acceptable tubing includes:
 - CP Chem Performance Pipe Driscoplex 5100-Ultra-line
 - Charter Plastics Inc. Blue Ice
 - Endot Endopure
 - ADS Polyflex
 - Stainless steel CTS stiffeners shall be used at each connection and meet standard AWWA C800
 - 12-AWG copper clad tracer wire shall meet standard ASTM B1010/B1010M19
 - Tracer wire shall be bonded to copper water service
 - Tracer wire shall be taped to PE tubing in no more than five-foot increments
 - Access point shall be installed within five feet of building
 - Access point shall be either Copperhead Industries Cobra or Copperhead Industries SnakePit or approved equivalent
- Larger than 2”
 - Within the right of way
 - Class 52 ductile iron pipe
 - Outside the right of way
 - Class 52 ductile iron pipe
 - C909 (PVC0)-C909 must meet standards ASTM F1483 or AWWA C909**
 - 12-AWG copper clad tracer wire shall meet standard ASTM B1010/B1010M19
 - Tracer wire shall be bonded to ductile water service
 - Tracer wire shall be taped to ductile in no more than five-foot increments
 - Access point shall be installed within five feet of building
 - Access point shall be either Copperhead Industries Cobra or Copperhead Industries SnakePit or approved equivalent

ALL SERVICE LINE COMPONENTS MUST BE MADE IN THE U.S.A

****The City will not be responsible for locating plastic service lines****

City of Alliance Meter Plumbing Requirements
Effective 7-12-24

Meter to be installed horizontally.

Meter pits are prohibited.

Meter height to be between 3' and 4' with no obstructions that would hinder installation/maintenance of meter.

Meter bypasses are prohibited.

For 2" and larger meters a length of pipe with no fittings must be equal or greater than 10 times the pipe diameter before the meter and five times the pipe diameter after the meter.

Shut off valve is required at the service connection. If meter is 2" or larger valve must be located upstream of the straight pipe requirement.

Backflow preventors {RPZ} are required on all new commercial accounts and on other service lines as determined by the Superintendent of Water Distribution.

If required, the backflow preventer {RPZ} must be installed directly after the meter. If the meter is 2" or larger backflow must be located immediately downstream of the straight pipe requirement.

Plumber is responsible for installing city supplied meter tailpieces/flanges at Water Distribution specified lay length determined by meter size.

Meters will not be left with plumber.

All booster pumps {fire lines and domestic lines} shall have approved flow controllers and shall be located downstream of approved backflow prevention device.

RP detector check backflow preventors are required on all new installation/upgrade of fire service.

City of Alliance Backflow Requirements

Below is a brief summary of the City's Backflow requirements. For more details and clarification, particularly prior to installing any device, please contact the Alliance Water Distribution Department (330-823-5216). Regardless of any other approvals, all backflow determinations and devices require approval of this department

The City of Alliance requires at the minimum a reduced pressure principle backflow prevention assembly on all industrial and commercial domestic water accounts.

The City of Alliance requires a reduced pressure principle-detector assembly on all fire systems.

The City of Alliance requires residential accounts with boilers, irrigation systems, or city water assisted sump pumps to install reduced pressure principle backflow prevention assemblies.

Any containment principle backflow preventer required by rules 3745-95-04 and 3745-95-05 of the Administrative Code shall be of a model or construction that conforms to the following standards:

- For air gap separations: ASME A112.1.2.
- For reduced pressure principle backflow prevention assemblies: AWWA C511 or ASSE 1013.
- For double check valve assemblies: ASSE C510, ASSE 1015,
- For reduced pressure principle-detector assemblies: ASSE 1047.
- For double check-detector check valve assemblies: ASSE 1048.

Dumpster Pad Drain Requirements

- A dumpster drain is only required on site plans that have water supplied to the dumpster area.
- If a dumpster drain is proposed, the drain must be connected to the sanitary sewer, and not the storm sewer.
- Dumpster drains must include a trash basket, be trapped, and be tied into the site's sanitary sewer upstream of an approved grease/oil separator if required by the site.
- The drainage area should be minimal in size to reduce I & I. The drainage area shall be diked and graded to direct rain water away from the bermed dumpster enclosure area, only if a drain is required.
- The property owner is prohibited from hosing the dumpster area into a storm sewer.

CITY OF ALLIANCE
Application for Planning Commission Review

Submission Date: _____ **Date of Meeting:** _____

Type of Submittal (Check all that apply): _____ Site Plan; _____ Replat; _____ Alley/Vacation; _____ Variance(s);
_____ Preliminary Plat; _____ Final Plat; _____ Zoning Change; _____ Conditional Use; _____ Other (explain)

Project Name: _____

Location: _____

_____ Lot/ Parcel No.: _____

Owner's Name: _____

Address: _____

City, State & Zip: _____

Phone: _____ Fax: _____ E-mail: _____

Professional contact Name (*Engineer, Surveyor, Architect, etc.*): _____

Professional Contact's Firm: _____

Address: _____

City, State & Zip: _____

Phone: _____ Fax: _____ E-mail: _____

Primary Contact Name: _____

(The person the City should contact regarding the project.)

Address (if different than above): _____

City, State & Zip: _____

Phone: _____ Fax: _____ E-mail: _____

Planning Commission meets every 3rd Wednesday of each month. Submission deadline is the 20th of the month prior to the regularly scheduled meeting. Late applications will be scheduled for the next available meeting. All information listed on the application and applicable checklist must be submitted for the application to be complete. Incomplete applications will not be processed. An authorized representative must attend the Planning Commission for the project to be considered.

I do hereby attest that all statements, signatures, descriptions, and exhibits submitted with this application are true and accurate to the best of my knowledge and that I am authorized to file this application and act on behalf of the property owner.

Signature of the Applicant

Signature of the Property Owner, if not the applicant

Appendix

For more information regarding Soil and Water Conservation Programs and Ohio EPA's NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORMWATER PHASE II Program, visit the following websites:

OHIO EPA: <https://epa.ohio.gov/home>

SWP3 & NOI: <https://www.epa.gov/npdes/submitted-notice-intent-noi-notice-termination-not-or-low-erosivity-waiver-low-under>

List of Post Construction BMP's: <https://www.epa.gov/npdes/national-menu-best-management-practices-bmps-stormwater-post-construction>

Stark County Soil and Water Conservation District (Storm Water Dropdown): www.starkswcd.org

United States Department of Agriculture, Natural Resource Conservation Service
Website: www.nrcs.usda.gov

Rainwater and Land Development Manual:
<https://epa.ohio.gov/divisions-and-offices/surface-water/guides-manuals/rainwater-and-land-development>

ODOT Location and Design Manual Volume
2: <https://www.transportation.ohio.gov/wps/portal/gov/odot/working/engineering/hydraulic/location-design-vol-2/01-location-design-vol-2>

ODOT Standard Drawings for Hydraulics and Water Quality
Basins: <https://www.dot.state.oh.us/SCDs/Pages/hydraulic.aspx>

Alliance Fire Department Guidance for Zoning Applications - Commercial

Knox Box installation for new construction and renovation of commercial occupancies.

(F) Section 506 Key boxes

(1) **506.1 Where required.** Where access to or within a structure or an area is restricted because of secured openings or where immediate access is necessary for life-saving or fire-fighting purposes, the fire code official is authorized to require a key box to be installed in an approved location. The key box shall be of an approved type listed in accordance with UL 1037 *as listed in rule 1301:7-7-80 of the Administrative Code*, and shall contain keys to gain necessary access as required by the fire code official.

The “Knox Box” should be installed at 60” of height and at an approved location where fire department units are expected to respond. The location of the unit should be noted on the drawings submitted for Planning Commission review.

Fire Department Access

(a) 503. 1.1 Buildings and facilities. Approved fire apparatus access roads shall be provided for every facility, building or portion of a building hereafter constructed or moved into or within the jurisdiction *which are not readily accessible from a public and/or private street*. The fire apparatus access road shall comply with the requirements of this *paragraph* and shall extend to within 150 feet (45 720 mm) of all portions of the facility and all portions of the exterior walls of the first story of the building as measured by an approved route around the exterior of the building or facility.

Drawings submitted for Planning Commission review should detail code-compliant fire department access to the property and structures.

Fire Department Connection (FDC) Location

(2) **912.2 Location.**With respect to hydrants, driveways, buildings and landscaping, fire department connections shall be so located that fire apparatus and hose connected to supply the system will not obstruct access to the buildings for other fire apparatus. The location of the fire department connections shall be approved by the fire *code official*. *After approving the location of the fire department connection(s), the fire code official shall submit this approval to the building code official of the certified building department having jurisdiction.*

The location of the FDC should be noted on the drawings (within 100’ of existing or proposed hydrant) and submitted for Planning Commission review. Thread specs for the FDC: **AJZ 3.234X6**

Hydrant Location

(a) **507.5.1 Where required.** Where a portion of the facility or building hereafter constructed or moved into or within the jurisdiction is more than 400 feet (122 m) from a hydrant on a fire apparatus access road, as measured by an approved route around the exterior of the facility or building, on-site fire hydrants and mains shall be provided where required by the fire code official.

(i) **507.5.1.1 Hydrant for standpipe systems.** Buildings equipped with a standpipe system installed in accordance with *paragraph (E)(905) of rule 1301:7-7-09 of the Administrative Code* shall have a fire hydrant within 100 feet (30 480 mm) of the fire department connections.

The location, size and distances of hydrants, whether municipal or private, should be noted on the drawings submitted for Planning Commission review.

Supporting Documentation

(3) **501.3 Construction documents.** Construction documents for proposed fire apparatus access, location of fire lanes, security gates across fire apparatus access and construction documents and hydraulic calculations for fire hydrant systems shall be submitted to the fire department for review and approval prior to construction.

Radio Coverage

(J) Section 510 Emergency responder radio coverage (1) 510.1 Emergency responder radio coverage in new buildings. All new buildings shall have approved radio coverage for emergency responders within the building based upon the existing coverage levels of the public safety communication systems of the jurisdiction at the exterior of the building. This paragraph shall not require improvement of the existing public safety communication systems. Note: for copyright claim information, please see the notice on the last page of this rule. 1301:7-7-05 9

Exceptions:

1. Where approved by the building official and the fire code official, a wired communication system in accordance with paragraph (G)(2)(m)(ii)(907.2.13.2) of rule 1301:7-7-09 of the Administrative Code shall be permitted to be installed or maintained in lieu of an approved radio coverage system.
2. Where it is determined by the fire code official that the radio coverage system is not needed.
3. In facilities where emergency responder radio coverage is required and such systems, components or equipment required could have a negative impact on the normal operations of that facility, the fire code official shall have the authority to accept an automatically activated emergency responder radio coverage system.

Fire alarm systems

(b) **907.1.2 Fire Alarm shop drawings.** Shop drawings for the alarm systems shall be submitted for review and approval prior to system installation, and shall include, but not be limited to, all of the following where applicable to system being installed:

- (i) a floor plan which indicates the use of all rooms.
- (ii) Locations of alarm- initiating devices.
- (iii) Locations of alarm notification appliances, including candela ratings for visible alarm. notification appliances.
- (iv) Design minimum audibility level for occupant notification.
- (v) Location of fire alarm control unit, transponders and notification power supplies.
- (vi) Annunciators.
- (vii) Power connection.
- (viii) Battery calculations.
- (ix) Conductor type and size.
- (x) Voltage drop calculation.
- (xi) Manufacturers' data sheets indicating model numbers and listing information for equipment, devices and materials.
- (xii) details of the ceiling height and construction.
- (xiii) The interface of fire safety control functions
- (xiv) Classification of the supervising station

Fire Protection and Utilities shall be Identified

(1) 509.1 Identification: Fire protection equipment shall be identified in an approved manner.

Rooms containing controls for air conditioning systems, sprinkler risers and valves, or other fire detection, suppression or control elements shall be identified for the use of the fire department. Approved signs required to identify fire protection equipment and equipment location shall be constructed of durable materials, permanently installed and readily visible.

Fire Protection systems

(1) 105.4.2.1 Fire protection system shop drawings. Subject to the provision of paragraph (D) (2) (A)(104.2.1) of this rule, shop drawings for the fire protection system (s) shall be submitted to indicate compliance with this code and the construction documents, and shall be approved prior to the start of installation. Shop drawings shall contain all information as required by the referenced installation standards in rule 1301:7-7-09 of the Administrative Code.

Address Identification on new and renovated buildings

505.1 Address identification. New and existing buildings shall be provided with approved address identification. The address identification shall be legible and placed in a position that is visible from the street or road fronting the property. Address identification characters shall contrast with their background. Address numbers shall be Arabic numbers or alphabetical letters. Numbers shall not be spelled out. Each character shall not be less than 4 inches (102 mm) high with a minimum stroke width of ½ inch (12.7 mm). Where required by the fire code official, address identification shall be provided in additional approved locations to facilitate emergency response. Where access is by means of a private road and the building cannot be viewed from the public way, a monument, pole or other sign or means shall be used to identify the structure. Address identification shall be maintained.

Backflow Prevention

We require a Reduced Pressure (RP) detector check on all fire systems. These are required at the service connection, before the booster pump. This is per OAC 3745-95.

All relevant documents should be submitted with the drawings for Planning Commission review. For drawings that the Fire Department needs to review, we request 1 hard copy set as well as a PDF submission to InspectorWaffler@alliancefiredepartment.com