

| | PROGRAMMING | SCHEMATIC DESIGN | DESIGN DEVELOPMENT | CONSTRUCTION DOCUMENTS |
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| GENERAL | <ul style="list-style-type: none"> Scope of work narrative List of applicable building codes on drawing sheet Building adjacency diagrams Scalable bubble diagrams describing programmatic functions Programmatic requirements in excel table format Final narrative utilizing CCPE outline | <ul style="list-style-type: none"> Building code review List of anticipated building code variance requests Anticipated building and space occupancy schedules | <ul style="list-style-type: none"> Description of construction phasing Description of water & vapor characteristics of roof & exterior walls Outline or preliminary specifications indicating project specific features of major equipment | <ul style="list-style-type: none"> Documentation on drawings as required by building codes (specifically to include max allowable persons in each room) List of all code variances (cover sheet) List of any special inspections as stipulated by building code Indication of construction phasing, including temporary requirements during each phase Clear indication of scope of each bid package Complete specification |
| SITE | <ul style="list-style-type: none"> Existing Conditions Demolition Building outlines Site entrance Circulation paths Landscaping concept | <ul style="list-style-type: none"> Proposed new structures Existing buildings or structures Roads & driveways Property lines, easements, and setbacks Parking locations and count Bus stop or shelter Loading dock location Waste/recycling locations Circulation (walkways, stair) Water, sewer and electrical points of connection Preliminary grading | <ul style="list-style-type: none"> General dimensions Permanent exterior signage Parking/roadway plans & sections Vehicle & pedestrian traffic controls Grading plan Site lighting plans, simulations, specifications, equipment cut sheets and photometrics Concept details of site fixtures & equipment Utility plans, elevations, and details for City of Omaha approval Sanitary sewer flow | <ul style="list-style-type: none"> Extent of construction area Area traffic plan Site development phasing Construction signage Staging area, construction access Site details, including hardscape Show sidewalk control joints and expansion joints Show areas to be maintained for drainage Profiles for underground utilities Copy of local government review comments on utilities and modifications of right of |

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| | | <p>concept</p> <p>Storm water management concept</p> <p>Preliminary site lighting concept</p> <p>Landscaping concept</p> | <p>calculations</p> <p>Plan to address existing hazardous/contaminated materials, if applicable</p> <p>Soil erosion & sedimentation Control plan</p> <p>Landscaping planting plan</p> <p>Landscaping irrigation plan</p> | <p>way</p> <p>Protection for existing trees and significant planting during construction</p> <p>Soil preparation & planting specifications</p> <p>Guying diagrams</p> <p>Piping diagrams</p> <p>Landscape and irrigation details and legends</p> |
| BUILDING PLANS | | <p>Typical floor plans, min 1/16" scale</p> <p>Demolition plans</p> <p>Area use identification and area in S.F.</p> <p>Mechanical, electrical, other service closets & rooms</p> <p>Circulation paths</p> <p>Layout of major spaces with fixed equipment</p> <p>Elevator & equipment locations</p> | <p>All floor plans (min 1/16" scale)</p> <p>Enlarged plans at elevation changes and toilet rooms</p> <p>Reflected ceiling plans</p> <p>Wall types, fire ratings, smoke control zones</p> <p>Fixed seating</p> <p>Defined seating, serving, and kitchen facilities</p> <p>Equipment & furniture layouts</p> <p>Details of fixed equipment</p> <p>Life safety (egress) plans with identification of security access control points</p> <p>Preliminary finish schedule</p> <p>Preliminary door schedule</p> <p>Preliminary way-finding & signage</p> <p>Elevator & equipment room locations</p> <p>Elevator equipment description</p> | <p>Dimensioned floor plans</p> <p>Enlarged plans</p> <p>Partition details</p> <p>Interior details</p> <p>Exterior details</p> <p>Flashing details</p> <p>Fire assemblies, separations and draft stops</p> <p>Room finish schedule</p> <p>Door, hardware schedule</p> <p>Reflected ceiling plans</p> <p>Roof plans</p> <p>Roof-mounted equipment</p> <p>Roof details</p> <p>Room signage</p> <p>Description of shaft sump pits</p> <p>Elevator car & equipment support details</p> <p>Description of elevator controls & fixtures</p> <p>Elevator door & frame details</p> <p>Elevator interior details including lighting</p> |

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| ELEVATIONS | | <p>Typical or important elevations shown with openings Building and floor-to-floor dimensions Material designations</p> | <p>All exterior elevations w/ vertical dimensions Important interior elevations Identify all openings and materials on exterior elevations Show lateral bracing where applicable</p> | <p>Parapet & coping details Interior elevations</p> |
| SECTIONS | | | <p>Typical wall sections Large scale building cross-sections</p> | <p>Show materials of construction Fire rated assemblies and penetrations All dimensions Cross-sections through mechanical rooms and areas where there are installation/coordination issues. Indicate required service areas</p> |
| STRUCTURAL | | <p>Written description of structural systems</p> | <p>Plan showing foundations and footings Locations of structural elements and openings Typical floor framing plan Main member sizing Structural sections</p> | <p>Show size, locations, thicknesses, materials, strengths and reinforcing of foundations and footings Show imbedded anchoring All floor and roof framing members, sizes, methods of attachment, location and materials Structural calculations, including seismic calculations Definition of control joints Beam, column & slab schedules where appropriate Structural notes and details Structural calculations</p> |

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| | | | | Foundation details |
| HVAC | | <p>Gross HVAC zoning, typical individual space zoning</p> <p>Mechanical legend</p> <p>Special occupancy zones</p> <p>Major equipment locations</p> | <p>Overall building air flow diagram indicating air handlers, exhaust fans, duct risers, and duct mains</p> <p>Air intake & discharge locations</p> <p>Plans indicating shaft, chase, recess requirements</p> <p>Duct layout for typical spaces</p> <p>Equipment schedules for major equipment</p> <p>Energy conservation calculations</p> <p>Equipment locations</p> <p>Indication of typical locations of fire dampers, smoke dampers</p> <p>Conceptual control diagrams for mechanical and plumbing systems</p> <p>M/E smoke control schemes</p> <p>Preliminary floor plans of mechanical rooms</p> <p>Preliminary calculations</p> <p>Fire pump sizing calculations</p> | <p>Show entire HVAC systems mounting details, ductwork layout and sizing, all units with their capacities</p> <p>Equipment schedules</p> <p>Detailed floor plans of mechanical rooms with all components and required service access areas drawn to actual scale</p> <p>Penetration/sleeve details</p> <p>Installation details</p> <p>Location of all sprinkler zone valves, drains and fire hose connections</p> <p>Fire zoning extents</p> <p>Typical sprinkler installation details</p> <p>Fire protection penetration/sleeve details</p> <p>Fire prevention design calculations</p> |
| ELECTRICAL | | <p>Electrical symbols legend</p> <p>General drawing notes</p> <p>Preliminary interior lighting plans</p> <p>Preliminary exterior lighting plans</p> <p>Exterior equipment locations</p> | <p>Manhole, duct bank, building entry plans and details</p> <p>Power riser diagram with circuit breaker, fuse, conduit & wire sizes</p> <p>Emergency power diagram</p> <p>List of equipment on emergency power</p> | <p>Interior and outdoor lighting plans, including control systems and devices, lighting panels, switching and circuiting</p> <p>Lighting control system detailed sequence of operation</p> <p>Normal lighting photometric calculations</p> |

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| | | | <p>Load calculations, fixture schedules Wiring sizes, circuiting, grounding Typical electrical outlet location plans Electrical fixtures; interior, exterior, site Typical interior lighting and control plans Outdoor lighting plans Panel schedules, single line diagrams Fixture, lamp, and controls descriptions Dimming, daylighting and low voltage control zones Typical photometric calculations</p> | <p>Emergency lighting photometric calculations Details of power service to building Detailed power plans including primary cable raceways, electrical loads, special receptacles, and circuiting Emergency power system plans, controls, details General notes on conduit and wire sizes Roof, wall, floor penetration details Connections to other building systems, including fire alarm and HVAC systems</p> |
| PLUMBING | | <p>Main water supply, storm, and sanitary leads Restroom locations Major equipment locations Plumbing legend</p> | <p>Updated design criteria for each plumbing systems Preliminary piping plans (domestic & process water) with indication of required service access areas Meter locations Back flow prevention locations Preliminary fixture schedules Preliminary major equipment schedules Preliminary floor plans of mechanical rooms to scale Preliminary riser diagrams for</p> | <p>Show all piping slopes, materials and sizes Pre-treatment systems Water riser diagram, including assumed fixture counts per floor connection Waste and vent riser diagrams Foundation drains Typical plumbing details Penetration/sleeve details Design calculations</p> |

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| | | | plumbing systems | |
| COMMUNICATIONS/ SECURITY/A/V | | Room locations Panel locations Preliminary A/V device locations System descriptions | Cable trays | |
| OTHER | | Renderings, models or other graphics as necessary to clearly present concept | Roof & drainage plan Typical window details Exterior door details Details of unique features Updated renderings or graphics as appropriate | Roof mounted equipment Exterior details Flashing details Control and expansion joint definition and details Partition details Interior details Door & hardware schedules Schedule of proposed movable equipment Schedule of lab fixtures where applicable Updated renderings or graphics as appropriate |

Construction Administration:

- Addenda and changes
- Drawing revisions marked and identified