

Office of the Purchasing Agent 2300 Bloomdale Road Suite 3160 McKinney, Texas 75071 www.collincountytx.gov

COLLIN COUNTY, TEXAS

ADDENDUM No. Six (6) IFB No. 2021-239

INVITATION FOR BID

FOR

CONSTRUCTION, COLLIN COUNTY ADULT DETENTION FACILITY, PHASE 1 ADDITION

DATE: AUGUST 26, 2021

NOTICE TO ALL PROSPECTIVE BIDDERS:

PLEASE MAKE THE FOLLOWING CHANGES TO THE INVITATION FOR BID:

ADD DOCUMENT: ARCHITECT'S ADDENDUM 4

DELETE DOCUMENT: SECTION 10 22 13

DELETE DOCUMENT: TABLE OF CONTENTS

REPLACE WITH: TABLE OF CONTENTS ADDENDUMS 1, 2, 3, 4

DELETE DOCUMENT: SECTION 07 60 00 ADDENDUM 2 REPLACE WITH: SECTION 07 60 00 ADDENDUM 4

DELETE DOCUMENT: SECTION 23 21 13

REPLACE WITH: SECTION 23 21 13 ADDENDUM 4

DELETE DOCUMENT: SECTION 27 05 28

REPLACE WITH: SECTION 27 05 28 ADDENDUM 4

DELETE DOCUMENT: CVR

REPLACE WITH: CVR ADDENDUMS 1, 2, 3, 4

DELETE DOCUMENT: ES227

REPLACE WITH: ES227 ADDENDUM 4

DELETE DOCUMENT: ES501

REPLACE WITH: ES501 ADDENDUM 4

DELETE DOCUMENT: ES502

REPLACE WITH: ES502 ADDENDUM 4

DELETE DOCUMENT: ES503

REPLACE WITH: ES503 ADDENDUM 4

DELETE DOCUMENT: ES504

REPLACE WITH: ES504 ADDENDUM 4

DELETE DOCUMENT: M100

REPLACE WITH: M100 ADDENDUM 4

ADD DOCUMENT: BID QUESTIONS AND ANSWERS

ADD ATTRIBUTE: #25-ADDENDUM No. 6 ACKNOWLEDGEMENT

DELETE DOCUMENT: SECTION 004100-BID FORM ADDENDUM 5
REPLACE WITH: SECTION 004100-BID FORM ADDENDUM 6

ALL OTHER TERMS AND CONDITIONS OF THE BID AND SPECIFICATIONS REMAIN THE SAME.

SINCERELY,

MICHELLE CHARNOSKI, NIGP-CPP, CPPB

PURCHASING AGENT

JDG

ADDENDUM NO. 4

TO

Collin Count Adult Detention Facility, Phase 1 McKinney, Texas

August 26, 2021

Project: 21913.00

From: Brinkley Sargent Wiginton Architects, Inc.

To: Bidders of Record

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents.

PROJECT MANUAL MODIFICATIONS

Item No. 1. Title Page

A. Updated table of Contents.

Item No. 2. Section 07 60 00 Flashing and Sheet Metal

A. Added section 2.06.

Item No. 3. Section 10 22 13 Wire Mesh Partitions

A. Removed specification.

Item No. 4. Section 27 05 28 Telecom Hangers and Supports

A. 3.3 A-- Provide MaxCell, 4" 3-cell innerducts in one (1) only of the 4" UG conduit between the MDF (IT1213) and external pullbox. Refer keynote 16, detail/sheet 3/IT601.

Item No. 5. Section 23 21 13 Hydronic Piping

A. 2.3 – Paragraph added to include specification for High Density Polyethylene (HDPE).

B. 3.1 C – Added for required experience with installation of HDPE

DRAWINGS MODIFICATIONS

Note to bidders on drawing modifications: Any revision made to a sheet as part of this Addendum, regardless of the scale of the modification, results in the reissuance of that full sheet. The description for the revisions follows below, but the full sheet is reissued to allow revised sheets to simply be substituted for the sheets originally issued.

Item No. 6. Sheet – CVR

A. Updated to include addendums.

Item No. 7. Sheet – M100

A. Added detail 3 and note 2.

Item No. 8. Sheet – ES227

A. Modified floor plan view to include location of existing Equipment Room #124 and existing Building Control Room #109.

Item No. 9. Sheet – ES501

- A. Modified Diagram to correct Existing Equipment Room #129 to #124.
- B. Corrected Diagram by moving Existing Equipment Room #124 to level 1.
- C. Corrected Diagram by moving Existing Building Control Room to level 1.

Item No. 10. Sheet – ES502

- A. Modified Diagram to correct Existing Equipment Room #129 to #124.
- B. Corrected Diagram by moving Existing Equipment Room #124 to level 1.

Item No. 11. Sheet – ES503

- A. Modified Diagram to correct Existing Equipment Room #129 to #124.
- B. Corrected Diagram by moving Existing Equipment Room #124 to level 1.
- C. Corrected Diagram by moving Existing Building Control Room to level 1.

Item No. 12. Sheet – ES504

- A. Modified Diagram to correct Existing Equipment Room #129 to #124.
- B. Corrected Diagram by moving Existing Equipment Room #124 to level 1.
- C. Corrected Diagram by moving Existing Building Control Room to level 1.

ADDENDUM 4 ATTACHMENTS:

Specification Sections as listed above

Drawing Sheets as listed above.

END OF ADDENDUM

COLLIN COUNTY ADULT DETENTION FACILITY PHASE 1 ADDITION

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26 24 13	_	Switchboards	
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26 27 16	_	Electrical Cabinets & Enclosures	
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PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes
 - 1. Parapet cap flashing.
 - 2. Counter flashings over base flashings.
 - 3. Roof, sill and cant strip protection.
 - 4. Counter flashings for roof mounted equipment, screens and hatches.

B. Related Sections

1. Divison 3: Precast Concrete.

2. Section 04 22 00: Brick.

3. Section 06 10 00: Rough Carpentry.4. Section 07 54 23: TPO Roofing.

5. Section 07 92 00: Sealants and Caulking.

1.02 REFERENCES

- A. ASTM A 526 Steel sheet, zinc-coated (galvanized) by the hot-dip process, commercial quality.
- B. ASTM A 527 Steel sheet, zinc-coated (galvanized) by the hot-dip process, lock forming quality.
- C. ASTM B 209 Aluminum alloy sheet and plate.
- D. FS TT S 00120C Sealing compound: Elastomeric type, single component.

1.03 SHOP DRAWINGS

- A. Submit shop drawings in accordance with Section 01 30 00.
- B. Clearly detail shaping, jointing, the length of sections, fastening, and installation details, thickness and type of metal, expansion joints and methods of anchoring to adjacent work.

1.04 WARRANTY

- A. Provide Owner with a warranty stating that metal flashings will properly shed water for a minimum period of two (2) years from the date of Substantial Completion of the Work, as certified by Architect, and that damage resulting from failure to provide above stated performances will be repaired to satisfaction of Owner at no additional cost.
- B. Provide coating warranty for at least 20 years for fade, failure and other variables available from the manufacturer.

PART 2 – PRODUCTS

2.01 SHEET METALS

- A. Galvanized Steel: ASTM A 526, minimum 24 gauge thick, extra smooth, minimum spangle, tension leveled, hot dipped galv. steel with coil coated 70% Kynar 500/ Hylar 5000 resin based fluoropolymer FSFcoating finish of 1.0 mil DFT with a wash coat of .35 mil DFT on reverse side; 20-year warranty; complying with AAMA 2605.
 - 1. Color as selected.
- B. Galvanized Steel: ASTM A 526, minimum 24 gauge thick, hot-dipped galvanized steel G-90, Commercial quality, paint grip type. Utilize at areas not visible to public view.

2.02 COMPONENTS

- A. Fasteners: Concealed hook strip or clip type, of the same material as flashings, sized to suit the application.
- B. Sealant: One component, non-priming; premium grade advance polymer sealant, conforming at a minimum to FD TT S 00230; non-staining, non-bleeding, non-sagging, of the color selected by Architect. Titebond WeatherMaster Metal Roof Sealant [basis of design]. Plus or minus 50% joint movement; weather and aging resistant; extrusion down to 0 degrees F; UV resistant; <1% shrinkage.
- C. Solder and Flux: Type recommended for materials being used.
- D. Nails, Rivets and Screws: Furnish in metal type compatible with sheet metal.
- E. Cleats: .06-inch-thick aluminum, mill finish.

2.03 ACCESSORY MATERIALS

A. Formed Copings

- 1. Coil coated Kynar-based resin system 24 gauge galvanized steel. Formed in 10-foot sections; lock exterior edges over continuous cleats to secure to the substrate.
- 2. Extend sheet roofing over the top of the wall and down the face until it overlaps the weather barrier- to provide a continuous weather/ air barrier. At locations without sheet roofing utilize peel and stick type membrane.
- 3. Cross Joints: Provide an 'under' type splice joint of 8" wide coping metal centered under 34" wide joint.
- 4. Coping Corners: Mitered, seamed and permanently sealed; extend 2'-0" back from a corner in each direction.
- 5. Bottom edges of the aprons on the copings, both front and a back side, shall be hemmed and locked over with minimum 24 gauge galvanized steel cleats- at extensions over extending over the gap and masonry utilize min. 20 gauge material. All underside support framing/ cleats are intended to run continuous- with splices occurring staggered to coping splice joints. The cleats shall be secured to parapet with screws at 12" o.c.

B. Metal Counter and Through-Wall Flashing

- 1. 26 gauge galvanized (coil coated if visible to view) steel formed in 8-foot sections; lap end joints 3 inches; do not solder joints; make continuous angles; overlap base flashing a minimum of 3 inches. Extend thru-wall flashing at counterflashing through entire veneer thickness and provide water-resistant connection to the substrate.
- 2. Fabricate two-piece type for ease in re-roofing.
- 3. Provide L-shaped inside and outside corner pieces extending 4 inches each way from the corner.

C. Umbrella Shields

- 1. 24 gauge galvanized steel, formed from one piece sheet metal; joint lapped 1/2 inch, pop-riveted and soldered; shield held in place with screwdriver adjusted pipe clamp.
- 2. Provide continuous bead of sealant at top edge for the watertight condition.
- D. Conductor Heads: Configuration as shown; with overflow where required.

- E. Downspouts: Configuration as noted on drawings; provide braces at 2'-0" from each end; elbox 90 degrees at the bottom; hidden fastener straps. Provide covers at the bottom where these tie to civil drainage systems.
- F. Underlayment/Peel N Stick: Tamko TW Metal and Tile underlayment or approved equal to provide a flexible, self- adhering sheet membrane with fastener sealability [min. ASTM D 1970], designed for high temperature and for a min. 45-day exposure. Install in longest rolls/ fewest seams as possible. Coordinate compatibility with adjacent materials/ systems.

2.04 FABRICATION

- A. Workmanship: Conform to specifications and recommended practices of the Sheet Metal and Air-Conditioning National Association Architectural Manual, latest edition, for forming, soldering, anchoring, cleaning and provisions for thermal expansion and contraction.
- B. When work is required to be executed in conjunction with non-metallic type roofing and flashing products, coordinate sheet metal work in conjunction therewith and execute in such a manner as to permit required roofing bonds to be obtained.
- C. Provide all accessories or other items essential to the completeness of sheet metal installation, even though not specifically shown or specified. All such items, unless otherwise shown or specified shall be of the same kind of material as an item to which applied. Nails, screws and bolts shall be of types best suited for the purpose intended and of a composition that is compatible with metal to which it will contact.
- D. Form sections square, true and accurate to size, free from distortion and other defects detrimental to appearance or performance.
- E. Form sections in maximum practical lengths. Make allowances for expansion at joints.
- F. Sheet metal work shall be formed, fabricated and installed to adequately provide for expansion and contraction in the completed work, and shall finish water and weather tight throughout. Lock seam work shall be made flat and true to line and sweated full of solder. Flat lock seams, and lap seams where soldered shall be at least 1/2" wide. Lap seams, not soldered, shall lap according to pitch but in no case less than 3". Seams shall be made in direction of flow.
- G. Wipe, wash and clean soldered joints to remove traces of flux immediately after soldering.
- H. Sheet metal work exposed to the weather shall be permanently watertight and weathertight, with suitable provision made for free expansion and contraction without causing leaks.
- Separate dissimilar metals from each other by painting each metal surface in the area of contact with a
 heavy application of the bituminous coating, or by other permanent separation as recommended by the
 manufacturers of the dissimilar metals.
- J. Any defective work shall be removed and replaced by the Contractor.

2.05 SOFFIT PANELS

- A. Prefinished factory formed metal panels- Basis- of- Design: MBCI FW 120; Morin A-12
 - Flush Panel.
 - 2. Material: .032" (.8 mm) aluminum, alloy 3105-H14.
 - 3. Panel Dimension: 12" wide with 1" (25 mm) seam height. Panels to be single panel full width.
 - 4. Texture: Smooth texture.
 - 5. Exterior Finish: fluoropolymer.

2.06 **AD 4 CONCEALED-FASTENER, LAP-SEAM METAL WALL PANELS-MECHANICAL SCREEN

- A. General: Provide factory-formed metal panels designed to be field assembled by lapping and interconnecting side edges of adjacent panels and mechanically attaching through panel to supports using concealed fasteners in side laps. Include accessories required for weathertight installation.
- B. Flush-Profile, Concealed-Fastener Metal Wall Panels- 'Mechanical Screen': Formed with vertical panel edges and intermediate stiffening ribs symmetrically spaced between panel edges; with flush joint between panels; field assembled with nested lapped edges, and attached to supports using concealed fasteners.
 - A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. ATAS International, Inc.
 - 2. Fabral.
 - 3. MBCI; a division of NCI Group, Inc.
 - 4. Morin A Kingspan Group Company.
 - 5. Petersen Aluminum Corporation.
 - VICWEST.
 - B. MBCI 'FW-120-1 [Basis of Design]; 12" wide; smooth finish, Signature 300 coating system on both front and back of panel [at back on exposed locations]. Provide jamb/ end, sill and head trim; color to match panels. Fasten per manufacturer recommendations.
 - C. Metallic-Coated Steel Sheet: Zinc-coated (galvanized) steel sheet complying with ASTM A 653/A 653M, G90 (Z275) coating designation, or aluminum-zinc alloy-coated steel sheet complying with ASTM A 792/A 792M, Class AZ50 (Class AZM150) coating designation; structural quality. Pre-painted by the coil-coating process to comply with ASTM A 755/A 755M.
 - 1. Nominal Thickness: 20 gage.
 - 2. Exterior Finish: Two-coat fluoropolymer.
 - 3. Color: As selected by Architect from manufacturer's full range.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Verify dimensions and take measurements necessary at the site before fabrication of items to ensure proper fit. Carefully examine areas to receive sheet metal and report defects and deficiencies. Do not start installation until conditions are corrected.
- B. Furnish to appropriate trades flashing and other sheet metal items requiring installation by others, and coordinate with other trades when joining with their work.

3.02 INSTALLATION

- A. Install flashing and sheet metal as indicated and in accordance with SMACNA Manual.
- B. Unless otherwise indicated, provide soldered flat-lock seams, with metal folded back to form hem on concealed side of exposed metal.
- C. Provide for thermal expansion and contraction in sheet metal items exceeding 15'-0" in running length. Place expansion joints at 10'-0" o.c. maximum and 2'-0" from corners and intersections.
- D. Secure flashings in place using specified type fasteners. Use exposed fasteners only in locations approved by Architect. When using exposed fasteners, they are to be of same finish as flashings.

- E. Lock seams and end joints. Fit flashings tight in place. Make corners square, surfaces true and straight in planes, and lines accurate.
- F. All flashings having the top edge exposed shall be counter flashed with metal in strips not over 10 feet in length, shaped to lie flat against the flashing and overlapping the same not less than 4". Exposed edges shall be doubled under hemmed 1/2" to straight lines. End joints shall lap 3", and at corners the metal shall be bent around the angle or locked and soldered.
- G. Joints shall be blind soldered where possible and all excess removed.
- H. Surfaces to be covered with sheet metal shall be smooth and free from defects of every description. All such surfaces shall be cleaned of dirt, rubbish and other foreign materials before the sheet metal work is started. All projecting nails shall be driven flush with the roof boarding.
- I. Formed coping splice pieces shall be installed with double sealant tape parallel to and at either side of the joint.

END OF SECTION

SECTION 23 21 13 - HYDRONIC PIPING *AD4

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. The Drawings and General Provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to the Work in this Section.

1.2 SUMMARY

A. The Contractor shall furnish and install items as shown on the drawings or as necessary to provide a complete working system in accordance with the intent of the drawings and specifications, including all valves as indicated or as necessary to completely control the entire piping system. The piping drawings are diagrammatic and indicate the general routing, locations, and connections. The piping may require be offsetting, lowering or rising as needed to avoid interferences or as directed at the site. This does not relieve the Contractor from responsibility for the proper installation of piping systems.

B. Work Included:

- 1. Hot-water heating piping.
- 2. Chilled-water piping.
- 3. Makeup-water piping.
- 4. Condensate-drain piping.
- 5. Air-vent piping.
- 6. Safety-valve-inlet and -outlet piping.

C. Submittals: Provide submittals as required in Section 23 00 10, "Submittal Process".

D. Performance Requirements

- 1. Hydronic piping components and installation shall be capable of withstanding the following minimum working pressure and temperature:
 - a. Hot-Water Heating Piping: 150 psig, as directed by the Owner at 200 °F
 - b. Chilled-Water Piping: 150 psig, as directed by the Owner at 200 °F
 - c. Makeup-Water Piping: 80 psig at 150 °F.
 - d. Condensate-Drain Piping: 150 °F.
 - e. Air-Vent Piping: 200 °F.
 - f. Safety-Valve-Inlet and -Outlet Piping: Equal to the pressure of the piping system to which it is attached.

1.3 QUALITY ASSURANCE

- A. Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this Section.
- B. Without additional cost to the Owner, provide such other labor and materials as are required to complete the work of this Section in accordance with the requirements of governmental agencies having jurisdiction, regardless of whether such materials and associated labor are called for elsewhere in these Contract Documents.
- C. When requested, provide the Architect with manufacturer's certificate that materials meet or exceed minimum requirements to comply with ANSI, ASTM, ASME, CISPI, IAPMO, PDI, and AWWA and all other applicable standards.

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- D. Installer Qualifications:
 - Installers of Pressure-Sealed Joints: Installers shall be certified by the pressure-seal joint manufacturer as having been trained and qualified to join piping with pressure-seal pipe couplings and fittings.
- E. Steel Support Welding: Qualify processes and operators according to AWS D1.1/D1.1M, "Structural Welding Code Steel."
- F. Welding: Qualify processes and operators according to ASME Boiler and Pressure Vessel Code: Section IX.
- G. Comply with provisions in ASME B31 Series, "Code for Pressure Piping."
- H. Certify that each welder has passed AWS qualification tests for welding processes involved and that certification is current.
- I. ASME Compliance: Comply with ASME B31.9, "Building Services Piping," for materials, products, and installation. Safety valves and pressure vessels shall bear the appropriate ASME label. Fabricate and stamp air separators and expansion tanks to comply with ASME Boiler and Pressure Vessel Code: Section VIII, Division 1.
- J. All pipes, valves, and fittings shall be manufactured in the United States. Mill Test reports and manufacturer's certifications shall be submitted to the Engineer on all such materials used.

PART 2 - PRODUCTS

2.1 COPPER PIPE AND PIPE FITTINGS

- A. Drawn-Temper Copper Tubing: ASTM B 88, Type L (ASTM B 88M, Type B) OR ASTM B 88, Type M (ASTM B 88M, Type C), as directed.
- B. Annealed-Temper Copper Tubing: ASTM B 88, Type K (ASTM B 88M, Type A).
- C. DWV Copper Tubing: ASTM B 306, Type DWV.
- D. Wrought-Copper Fittings: ASME B16.22.
 - 1. Grooved-End Copper Fittings: ASTM B 75 (ASTM B 75M), copper tube or ASTM B 584, bronze casting.
 - 2. Grooved-End-Tube Couplings: Rigid pattern, unless otherwise indicated; gasketed fitting. Ductile-iron housing with keys matching pipe and fitting grooves, prelubricated, as directed, EPDM gasket rated for minimum 230 °F for use with housing, and steel bolts and nuts.
- E. Copper or Bronze Pressure-Seal Fittings:
 - 1. Housing: Copper.
 - 2. O-Rings and Pipe Stops: EPDM.
 - 3. Tools: Manufacturer's special tools.
 - 4. Minimum 200-psig working-pressure rating at 250°F.
- F. Copper, Mechanically Formed Tee Option: For forming T-branch on copper water tube.
- G. Wrought-Copper Unions: ASME B16.22.

2.2 STEEL PIPE AND FITTINGS

A. Steel Pipe: ASTM A 53/A 53M, black steel with plain ends; type, grade, and wall thickness as indicated in Part 1.3 "Piping Applications" Article.

- B. Cast-Iron Threaded Fittings: ASME B16.4; Classes 125 and 250 as specified.
- C. Malleable-Iron Threaded Fittings: ASME B16.3, Classes 150 and 300 as specified.
- D. Malleable-Iron Unions: ASME B16.39; Classes 150, 250, and 300 as specified.
- E. Cast-Iron Pipe Flanges and Flanged Fittings: ASME B16.1, Classes 25, 125, and 250; raised ground face, and bolt holes spot faced as specified
- F. Wrought-Steel Fittings: ASTM A 234/A 234M, wall thickness to match adjoining pipe.
- G. Wrought Cast- and Forged-Steel Flanges and Flanged Fittings: ASME B16.5, including bolts, nuts, and gaskets of the following material group, end connections, and facings:
 - 1. Material Group: 1.1.
 - 2. End Connections: Butt welding.
 - 3. Facings: Raised face.
- H. Grooved Mechanical-Joint Fittings and Couplings:
 - 1. Joint Fittings: ASTM A 536, Grade 65-45-12 ductile iron; ASTM A 47/A 47M, Grade 32510 malleable iron; ASTM A 53/A 53M, Type F, E, or S, Grade B fabricated steel; or ASTM A 106, Grade B steel fittings with grooves or shoulders constructed to accept grooved-end couplings; with nuts, bolts, locking pin, locking toggle, or lugs to secure grooved pipe and fittings.
 - 2. Couplings: Ductile- or malleable-iron housing and synthetic rubber gasket of central cavity pressure-responsive design; with nuts, bolts, locking pin, locking toggle, or lugs to secure grooved pipe and fittings.
- I. Steel Pressure-Seal Fittings:
 - 1. Housing: Steel.
 - 2. O-Rings and Pipe Stop: EPDM.
 - 3. Tools: Manufacturer's special tool.
 - 4. Minimum 300-psig working-pressure rating at 230 deg F (110 deg C).
- J. Steel Pipe Nipples: ASTM A 733, made of same materials and wall thicknesses as pipe in which they are installed.

2.3 HIGH DENSITY POLYETHYLENE (HDPE)

- A. Piping below grade –Pipe shall be High Density Polyethylene (HDPE) piping, Performance Pipe Driscoplex 4000 (DR17), or equal and meet the following criteria.
 - 1. Pipe shall be Performance Pipe Driscoplex 4000 (DR17) fusion joined.
 - 2. Pipe and fittings shall be joined using heat fusion, flanges, and mechanical connections that are designed for HDPE pipe and electrofusion.
 - 3. Pipe shall have a pressure class rating of 100 psi with a surge allowance of 50 psi.
 - 4. Pipe shall have OD compatible with steel pipe.
 - 5. Pipe shall be hydrostatically tested to 1.5 times the working pressure of the system at the lowest elevation. Test shall be performed for a minimum of 4 hours without loss of pressure.

2.4 JOINING MATERIALS

- A. Pipe-Flange Gasket Materials: Suitable for chemical and thermal conditions of piping system contents.
 - 1. ASME B16.21, nonmetallic, flat, asbestos free, 1/8-inch maximum thickness unless thickness or specific material is indicated.
 - 2. Full-Face Type: For flat-face, Class 125, cast-iron and cast-bronze flanges.
 - 3. Narrow-Face Type: For raised-face, Class 250, cast-iron and steel flanges

- B. Flange Bolts and Nuts: ASME B18.2.1, carbon steel, unless otherwise indicated.
- C. Solder Filler Metals: ASTM B 32, lead-free alloys. Include water-flushable flux according to ASTM B 813.
- D. Brazing Filler Metals: AWS A5.8, BCuP Series, copper-phosphorus alloys for joining copper with copper; or BAg-1, silver alloy for joining copper with bronze or steel.
- E. Welding Filler Metals: Comply with AWS D10.12/D10.12M for welding materials appropriate for wall thickness and chemical analysis of steel pipe being welded.
- F. Gasket Material: Thickness, material, and type suitable for fluid to be handled and working temperatures and pressures.

2.5 VALVES AND SPECIALTIES

A. Valves

- 1. Gate, Globe, Check, Ball, and Butterfly Valves: Comply with requirements specified in Division 22 Section(s) "General-duty Valves For Plumbing Piping" OR Division 23 Section(s) "General-duty Valves For Hvac Piping".
- 2. Automatic Temperature-Control Valves, Actuators, and Sensors: Comply with requirements specified in Division 23 Section "Instrumentation And Control For Hvac".
- 3. Bronze, Calibrated-Orifice, Balancing Valves:
 - a. Body: Bronze, ball or plug type with calibrated orifice or venturi.
 - b. Ball: Brass or stainless steel.
 - c. Plug: Resin.
 - d. Seat: PTFE.
 - e. End Connections: Threaded or socket.
 - f. Pressure Gage Connections: Integral seals for portable differential pressure meter.
 - g. Handle Style: Lever, with memory stop to retain set position.
 - h. CWP Rating: Minimum 125 psig.
 - i. Maximum Operating Temperature: 250 deg F (121 deg C).
- 4. Cast-Iron or Steel, Calibrated-Orifice, Balancing Valves:
 - a. Body: Cast-iron or steel body, ball, plug, or globe pattern with calibrated orifice or venturi.
 - b. Ball: Brass or stainless steel.
 - c. Stem Seals: EPDM O-rings.
 - d. Disc: Glass and carbon-filled PTFE.
 - e. Seat: PTFE.
 - f. End Connections: Flanged or grooved.
 - g. Pressure Gage Connections: Integral seals for portable differential pressure meter.
 - h. Handle Style: Lever, with memory stop to retain set position.
 - i. CWP Rating: Minimum 125 psig.
 - j. Maximum Operating Temperature: 250 deg F (121 deg C).
- 5. Diaphragm-Operated, Pressure-Reducing Valves:
 - a. Body: Bronze or brass.
 - b. Disc: Glass and carbon-filled PTFE.
 - c. Seat: Brass.
 - d. Stem Seals: EPDM O-rings.
 - e. Diaphragm: EPT.
 - f. Low inlet-pressure check valve.
 - g. Inlet Strainer: removable without system shutdown.
 - h. Valve Seat and Stem: Noncorrosive.
 - i. Valve Size, Capacity, and Operating Pressure: Selected to suit system in which installed, with operating pressure and capacity factory set and field adjustable.
- 6. Diaphragm-Operated Safety Valves:
 - a. Body: Bronze or brass.
 - b. Disc: Glass and carbon-filled PTFE.

- c. Seat: Brass.
- d. Stem Seals: EPDM O-rings.
- e. Diaphragm: EPT.
- f. Wetted, Internal Work Parts: Brass and rubber.
- g. Inlet Strainer: removable without system shutdown.
- h. Valve Seat and Stem: Noncorrosive.
- i. Valve Size, Capacity, and Operating Pressure: Comply with ASME Boiler and Pressure Vessel Code: Section IV, and selected to suit system in which installed, with operating pressure and capacity factory set and field adjustable.
- 7. Automatic Flow-Control Valves:
 - a. Body: Brass or ferrous metal.
 - b. Piston and Spring Assembly: Stainless steel OR Corrosion resistant, as directed, tamper proof, self cleaning, and removable.
 - c. Combination Assemblies: Include bonze or brass-alloy ball valve.
 - d. Identification Tag: Marked with zone identification, valve number, and flow rate.
 - e. Size: Same as pipe in which installed.
 - f. Performance: Maintain constant flow, plus or minus 5 percent over system pressure fluctuations.
 - g. Minimum CWP Rating: 175 psig OR 300 psig, as directed.
 - h. Maximum Operating Temperature: 200 deg F (93 deg C) OR 250 deg F (121 deg C), as directed.

B. Air Control Devices

- Manual Air Vents:
 - a. Body: Bronze.
 - b. Internal Parts: Nonferrous.
 - c. Operator: Screwdriver or thumbscrew.
 - d. Inlet Connection: NPS 1/2 (DN 15).
 - e. Discharge Connection: NPS 1/8 (DN 6).
 - f. CWP Rating: 150 psig.
 - g. Maximum Operating Temperature: 225 deg F (107 deg C).
- 2. Automatic Air Vents:
 - a. Body: Bronze or cast iron.
 - b. Internal Parts: Nonferrous.
 - c. Operator: Noncorrosive metal float.
 - d. Inlet Connection: NPS 1/2 (DN 15).
 - e. Discharge Connection: NPS 1/4 (DN 8).
 - f. CWP Rating: 150 psig.
 - g. Maximum Operating Temperature: 240 deg F (116 deg C).
- 3. Expansion Tanks:
 - Tank: Welded steel, rated for 125-psig working pressure and 375 deg F (191 deg C) maximum operating temperature, with taps in bottom of tank for tank fitting and taps in end of tank for gage glass. Tanks shall be factory tested with taps fabricated and labeled according to ASME Boiler and Pressure Vessel Code: Section VIII, Division 1.
 - b. Air-Control Tank Fitting: Cast-iron body, copper-plated tube, brass vent tube plug, and stainless-steel ball check, 100-gal. (379-L) unit only; sized for compression-tank diameter. Provide tank fittings for 125-psig working pressure and 250 deg F (121 deg C) maximum operating temperature.
 - c. Tank Drain Fitting: Brass body, nonferrous internal parts; 125-psig working pressure and 240 deg F (116 deg C) maximum operating temperature; constructed to admit air to compression tank, drain water, and close off system.
 - d. Gage Glass: Full height with dual manual shutoff valves, 3/4-inch- (20-mm-) diameter gage glass, and slotted-metal glass guard.

- 4. Diaphragm-Type OR Bladder-Type, as directed, Expansion Tanks:
 - a. Tank: Welded steel, rated for 125-psig working pressure and 375 deg F (191 deg C) maximum operating temperature. Factory test with taps fabricated and supports installed and labeled according to ASME Boiler and Pressure Vessel Code: Section VIII, Division 1.
 - b. Diaphragm OR Bladder, as directed: Securely sealed into tank to separate air charge from system water to maintain required expansion capacity.
 - c. Air-Charge Fittings: Schrader valve, stainless steel with EPDM seats.
- 5. Tangential-Type Air Separators:
 - a. Tank: Welded steel; ASME constructed and labeled for 125-psig minimum working pressure and 375 deg F (191 deg C) maximum operating temperature.
 - b. Air Collector Tube: Perforated stainless steel, constructed to direct released air into expansion tank.
 - c. Tangential Inlet and Outlet Connections: Threaded for NPS 2 (DN 50) and smaller; flanged connections for NPS 2-1/2 (DN 65) and larger.
 - d. Blowdown Connection: Threaded.
 - e. Size: Match system flow capacity.
- 6. In-Line Air Separators:
 - a. Tank: One-piece cast iron with an integral weir constructed to decelerate system flow to maximize air separation.
 - b. Maximum Working Pressure: Up to 175 psig.
 - c. Maximum Operating Temperature: Up to 300 deg F.
- 7. Air Purgers:
 - a. Body: Cast iron with internal baffles that slow the water velocity to separate the air from solution and divert it to the vent for quick removal.
 - b. Maximum Working Pressure: 150 psig.

C. Chemical Treatment

- 1. Bypass Chemical Feeder: Welded steel construction; 125-psig working pressure; 5- gal. (19-L) capacity; with fill funnel and inlet, outlet, and drain valves.
 - a. Chemicals: Specially formulated, based on analysis of makeup water, to prevent accumulation of scale and corrosion in piping and connected equipment.
- 2. Ethylene and Propylene Glycol: Industrial grade with corrosion inhibitors and environmental- stabilizer additives for mixing with water in systems indicated to contain antifreeze or glycol solutions.

D. Hydronic Piping Specialties

- 1. Y-Pattern Strainers:
 - a. Body: ASTM A 126, Class B, cast iron with bolted cover and bottom drain connection.
 - b. End Connections: Threaded ends for NPS 2 (DN 50) and smaller; flanged ends for NPS 2- 1/2 (DN 65) and larger.
 - c. Strainer Screen: 40 OR 60, as directed,-mesh startup strainer, and perforated stainless- steel basket with 50 percent free area.
 - d. CWP Rating: 125 psig.
- 2. Basket Strainers:
 - Body: ASTM A 126, Class B, high-tensile cast iron with bolted cover and bottom drain connection.
 - b. End Connections: Threaded ends for NPS 2 (DN 50) and smaller; flanged ends for NPS 2- 1/2 (DN 65) and larger.
 - c. Strainer Screen: 40 OR 60, as directed,-mesh startup strainer, and perforated stainless- steel basket with 50 percent free area.
 - d. CWP Rating: 125 psig.
- 3. T-Pattern Strainers:
 - Body: Ductile or malleable iron with removable access coupling and end cap for strainer maintenance.
 - b. End Connections: Grooved ends.

- c. Strainer Screen: 40 OR 60, as directed,-mesh startup strainer, and perforated stainless- steel basket with 57 percent free area.
- d. CWP Rating: 750 psig.
- 4. Stainless-Steel Bellow, Flexible Connectors:
 - a. Body: Stainless-steel bellows with woven, flexible, bronze, wire-reinforcing protective jacket.
 - b. End Connections: Threaded or flanged to match equipment connected.
 - c. Performance: Capable of 3/4-inch (20-mm) misalignment.
 - d. CWP Rating: 150 psig.
 - e. Maximum Operating Temperature: 250 deg F (121 deg C).
- 5. Spherical, Rubber, Flexible Connectors:
 - a. Body: Fiber-reinforced rubber body.
 - b. End Connections: Steel flanges drilled to align with Classes 150 and 300 steel flanges.
 - c. Performance: Capable of misalignment.
 - d. CWP Rating: 150 psig.
 - e. Maximum Operating Temperature: 250 deg F (121 deg C).
 - f. Expansion fittings are specified in Division 22 Section(s) "Expansion Fittings And Loops For Plumbing Piping" OR Division 23 Section(s) "Expansion Fittings And Loops For Hvac Piping".

PART 3 - EXECUTION

3.1 GENERAL

- A. Refer to Section 23 0500, "Common Work Results for HVAC" for general installation requirements.
- B. All work shall be performed by workmen skilled in the trade required for the work. All materials and equipment shall be installed in accordance with the approved recommendations of the manufacturer and the best practices of the trade in conformance with the contract documents.
- C. Contractor installing pipe shall have experience with installation of HDPE pipe as specified within 150 miles. Contractor shall indicate this experience on submittal of pipe.
- D. Drawing plans, schematics, and diagrams indicate general location and arrangement of piping systems. Indicate piping locations and arrangements if such were used to size pipe and calculate friction loss, expansion, pump sizing, and other design considerations. Install piping as indicated unless deviations to layout are approved on Coordination Drawings.
- E. Select system components with pressure rating equal to or greater than system operating pressure.
- F. Field Quality Control:
 - 1. Perform the following tests on hydronic piping:
 - Use ambient temperature water as a testing medium unless there is risk of damage due to freezing. Another liquid that is safe for workers and compatible with piping may be used.
 - b. While filling system, use vents installed at high points of system to release air. Use drains installed at low points for complete draining of test liquid.
 - c. Isolate expansion tanks and determine that hydronic system is full of water.
 - d. Subject piping system to hydrostatic test pressure that is not less than 1.5 times the system's working pressure. Test pressure shall not exceed maximum pressure for any vessel, pump, valve, or other component in system under test. Verify that stress due to pressure at bottom of vertical runs does not exceed 90 percent of specified minimum yield strength or 1.7 times "SE" value in Appendix A in ASME B31.9, "Building Services Piping."

- e. After hydrostatic test pressure has been applied for at least 10 minutes, examine piping, joints, and connections for leakage. Eliminate leaks by tightening, repairing, or replacing components, and repeat hydrostatic test until there are no leaks.
- f. Prepare written report of testing.
- 2. Perform the following before operating the system:
 - a. Open manual valves fully.
 - b. Inspect pumps for proper rotation.
 - c. Set makeup pressure-reducing valves for required system pressure.
 - d. Inspect air vents at high points of system and determine if all are installed and operating freely (automatic type), or bleed air completely (manual type).
 - e. Set temperature controls so all coils are calling for full flow.
 - f. Inspect and set operating temperatures of hydronic equipment, such as boilers, chillers, cooling towers, to specified values.
 - g. Verify lubrication of motors and bearings.

3.2 INSTALLATION OF VALVES

- A. Install shutoff-duty valves at each branch connection to supply mains, and at supply connection to each piece of equipment.
- B. Install throttling-duty or calibrated-orifice, balancing, as directed, valves at each branch connection to return main.
- C. Install calibrated-orifice, balancing valves in the return pipe of each heating or cooling terminal.
- D. Install check valves at each pump discharge and elsewhere as required to control flow direction.
- E. Install safety valves at hot-water generators and elsewhere as required by ASME Boiler and Pressure Vessel Code. Install drip-pan elbow on safety-valve outlet and pipe without valves to the outdoors; and pipe drain to nearest floor drain or as indicated on Drawings. Comply with ASME Boiler and Pressure Vessel Code: Section VIII, Division 1, for installation requirements.
- F. Install pressure-reducing valves at makeup-water connection to regulate system fill pressure.

3.3 INSTALLATION OF PIPING

- A. Install piping in concealed locations, unless otherwise indicated and except in equipment rooms and service areas.
- B. Install piping indicated to be exposed and piping in equipment rooms and service areas at right angles or parallel to building walls. Diagonal runs are prohibited unless specifically indicated otherwise.
- C. Install piping above accessible ceilings to allow sufficient space for ceiling panel removal.
- D. Install piping to permit valve servicing.
- E. Install piping at indicated slopes.
- F. Install piping free of sags and bends.
- G. Install fittings for changes in direction and branch connections.
- H. Install piping to allow application of insulation.
- Install groups of pipes parallel to each other, spaced to permit applying insulation and servicing of valves.

- J. Install drains, consisting of a tee fitting, NPS 3/4 ball valve, and short NPS 3/4 threaded nipple with cap, at low points in piping system mains and elsewhere as required for system drainage.
- K. Reduce pipe sizes using eccentric reducer fitting installed with level side up.
- L. Install branch connections to mains using mechanically formed, as directed, tee fittings in main pipe, with the branch connected to the bottom of the main pipe. For up-feed risers, connect the branch to the top of the main pipe.
- M. Install unions in piping, NPS 2 and smaller, adjacent to valves, at final connections of equipment, and elsewhere as indicated.
- N. Install flanges in piping, NPS 2-1/2 and larger, at final connections of equipment and elsewhere as indicated.
- O. Join pipe and fittings according to the following requirements and Division 21 specifying piping systems.
- P. Ream ends of pipes and tubes and remove burrs. Bevel plain ends of steel pipe.
- Q. Remove scale, slag, dirt, and debris from inside and outside of pipe and fittings before assembly.
- R. Soldered Joints: Apply ASTM B 813, water-flushable flux, unless otherwise indicated, to tube end. Construct joints according to ASTM B 828 or CDA's "Copper Tube Handbook," using lead-free solder alloy complying with ASTM B 32.
- S. Brazed Joints: Construct joints according to AWS's "Brazing Handbook," "Pipe and Tube" Chapter, using copper-phosphorus brazing filler metal complying with AWS A5.8.
- T. Threaded Joints: Thread pipe with tapered pipe threads according to ASME B1.20.1. Cut threads full and clean using sharp dies. Ream threaded pipe ends to remove burrs and restore full ID. Join pipe fittings and valves as follows:
 - 1. Apply appropriate tape or thread compound to external pipe threads unless dry seal threading is specified.
 - 2. Damaged Threads: Do not use pipe or pipe fittings with threads that are corroded or damaged. Do not use pipe sections that have cracked or open welds.
- U. Welded Joints: Construct joints according to AWS D10.12/D10.12M, using qualified processes and welding operators according to Part 1.1 "Quality Assurance" Article.
- V. Flanged Joints: Select appropriate gasket material, size, type, and thickness for service application. Install gasket concentrically positioned. Use suitable lubricants on bolt threads.
- W. Grooved Joints: Assemble joints with coupling and gasket, lubricant, and bolts. Cut or roll grooves in ends of pipe based on pipe and coupling manufacturer's written instructions for pipe wall thickness. Use grooved-end fittings and rigid, grooved-end-pipe couplings.
- X. Mechanically Formed, Copper-Tube-Outlet Joints: Use manufacturer-recommended tool and procedure, and brazed joints.
- Y. Pressure-Sealed Joints: Use manufacturer-recommended tool and procedure. Leave insertion marks on pipe after assembly

3.3 INSTALLATION OF HYDRONIC SPECIALTIES

- A. Install strainers on inlet side of each control valve, pressure-reducing valve, solenoid valve, in-line pump, and elsewhere as indicated. Install NPS 3/4 nipple and ball valve in blowdown connection of strainers NPS 2 and larger. Match size of strainer blowoff connection for strainers smaller than NPS
- B. Install expansion loops, expansion joints, anchors, and pipe alignment guides as specified and required for the system served.
- C. Install automatic air vents at high points of system piping in mechanical equipment rooms only. Manual vents at heat-transfer coils and elsewhere as required for air venting.
- D. Install piping from boiler air outlet, air separator, or air purger to expansion tank with a 2 percent upward slope toward tank.
- E. Install tangential air separator in pump suction. Install blowdown piping with gate or full-port ball valve; extend full size to nearest floor drain.
- F. Install bypass chemical feeders in each hydronic system where indicated, in upright position with top of funnel not more than 48 inches above the floor. Install feeder in minimum NPS 3/4 bypass line, from main with full-size, full-port, ball valve in the main between bypass connections. Install NPS 3/4 pipe from chemical feeder drain, to nearest equipment drain and include a full-size, fullport, ball valve.
- G. Install expansion tanks on the floor. Vent and purge air from hydronic system, and ensure tank is properly charged with air to suit system Project requirements.

3.4 INSTALLATION OF SUPPORTS

- All pipe supports shall be designed and installed to avoid interferences with other piping, hangers, A. ducts, electrical conduit, supports, building structure, equipment, etc. All piping shall be installed with due regard to expansion and contraction. The type of hanger, method of support, location of support, etc., shall be governed in part by this specification.
- B. Pipe hangers shall be attached to the structure as follows:
 - Poured-in-Place Concrete: Each hanger rod shall be fitted with a nut at its upper end, which nut shall be set into an Underwriters' Laboratories, Inc., listed universal concrete insert placed in the formwork before concrete is poured.
 - 2. Steel Bar Joists: Where pipes and loads are supported under bar joists, hanger rods shall be run through the space between the bottom angles and secured with a washer and two nuts. Where larger lines are supported beneath bar joists, hanger rods shall be secured to angle irons of adequate size. Each angle shall span across two or more joists as required to distribute the weight properly and shall be welded to the joists or otherwise permanently affixed thereto.
 - Steel Beams: Pipes and loads supported under steel beams shall be installed using 3. approved beam clamps.

3.5 **SPACING**

- Install hangers for steel piping with the following maximum spacing and minimum rod sizes A. according to MSS SP 69 Tables 3 and 4:
 - NPS 3/4: Maximum span, 7 feet; minimum rod size, 3/8 inch. 1.
 - 2. NPS 1: Maximum span, 7 feet; minimum rod size, 3/8 inch.
 - 3. NPS 1-1/4: Maximum span, 7 feet; minimum rod size, 3/8 inch.
 - NPS 1-1/2: Maximum span, 9 feet; minimum rod size, 3/8 inch. 4.
 - NPS 2: Maximum span, 10 feet; minimum rod size, 3/8 inch. 5.

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- B. Install hangers for copper tubing with the following maximum spacing and minimum rod sizes:
 - 1. NPS 1/2: Maximum span, 5 feet; minimum rod size, 3/8 inch.
 - 2. NPS 5/8: Maximum span, 5 feet; minimum rod size, 3/8 inch.
 - 3. NPS 1: Maximum span, 6 feet; minimum rod size, 3/8 inch.
 - 4. NPS 1-1/4: Maximum span, 8 feet; minimum rod size, 3/8 inch.
 - 5. NPS 1-1/2: Maximum span, 8 feet; minimum rod size, 3/8 inch.
- C. Spacing and rod sizes for other piping materials shall be as recommended by the manufacturer.

3.6 TRAPEZES

A. Trapeze members, including suspension rods, shall be properly sized for the number, size and loaded weight of the lines they are to support. Install as noted above.

3.7 CHEMICAL TREATMENT

- A. Perform an analysis of makeup water to determine type and quantities of chemical treatment needed to keep system free of scale, corrosion, and fouling, and to sustain the following water characteristics:
 - 1. pH: 9.0 to 10.5.
 - 2. "P" Alkalinity: 100 to 500 ppm.
 - 3. Boron: 100 to 200 ppm.
 - 4. Chemical Oxygen Demand: Maximum 100 ppm. Modify this value if closed system contains glycol.
 - 5. Corrosion Inhibitor:
 - a. Sodium Nitrate: 1000 to 1500 ppm.
 - b. Molybdate: 200 to 300 ppm.
 - c. Chromate: 200 to 300 ppm.
 - d. Sodium Nitrate Plus Molybdate: 100 to 200 ppm each.
 - e. Chromate Plus Molybdate: 50 to 100 ppm each.
 - 6. Soluble Copper: Maximum 0.20 ppm.
 - 7. Tolyiriazole Copper and Yellow Metal Corrosion Inhibitor: Minimum 10 ppm.
 - 8. Total Suspended Solids: Maximum 10 ppm.
 - 9. Ammonia: Maximum 20 ppm.
 - 10. Free Caustic Alkalinity: Maximum 20 ppm.
 - 11. Microbiological Limits:
 - a. Total Aerobic Plate Count: Maximum 1000 organisms/ml.
 - b. Total Anaerobic Plate Count: Maximum 100 organisms/ml.
 - c. Nitrate Reducers: 100 organisms/ml.
 - d. Sulfate Reducers: Maximum 0 organisms/ml.
 - e. Iron Bacteria: Maximum 0 organisms/ml.
- B. Fill system with fresh water and add liquid alkaline compound with emulsifying agents and detergents to remove grease and petroleum products from piping. Circulate solution for a minimum of 24 hours, drain, clean strainer screens, and refill with fresh water.
- C. Add initial chemical treatment and maintain water quality in ranges noted above for the first year of operation.

END OF SECTION

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HYDRONIC PIPING MDE PROJECT NO: 201254

PART 1 - GENERAL

1.1 SUMMARY

- A. Coordinate with related trades to schedule the Work and ensure a complete installation in accordance with the schedule outlined by the Owner. Verify the exact mounting locations and mounting heights of all equipment with the Owner prior to installation. Notify the Owner in the event that a particular location appears to be unsuitable. Coordinate with the Architect to verify work to be provided by the Contractor that falls outside the scope of the overall Project.
- B. Provide all work as detailed in the specifications as a turnkey installation including all material, labor, warranties, taxes, freight, and permits. Only items and requirements specifically stated to be provided by others shall not be a requirement for this Section of the Work.
- C. The Work detailed within the Contract Documents has been specified to meet certain requirements for performance, appearance, and costs. It shall be the responsibility of the Contractor to implement the guidelines and requirements contained in the Documents and translate them into a complete design package containing all elements necessary for a complete, operational, and functionally Structured Cabling System.
- D. Provides non-continuous cable support components utilized to provide pathways support to telecommunications cables traveling outside cable trays, conduits, or other continuous cable supports.

E. Section Includes:

- 1. Non-continuous cable supports.
- 2. 3-Cell Flexible Fabric Textile Raceway in underground duct, Innerduct in plenum ceiling spaces; exception: no innerduct required in ceiling spaces where armored plenum-rated cabling is used.

1.2 SPECIAL CONDITIONS

A. For all work taking place within the scope of the Project, the electrical contractor will provide conduit, pathways and power requirements. The Contractor will be responsible for electrical work for the portions of the work which falls outside the scope of the overall Project. Refer to the electrical and architectural drawings for documentation of work provided within the Project.

1.3 RELATED DOCUMENTS

- A. All divisions of the specification and general provisions of the Construction Documents.
- B. Architectural, mechanical, electrical, and all technology drawings.

1.4 REFERENCES

- A. Abbreviations and Acronyms
 - 1. A/E: Architect / Engineer (designer)
 - 2. AHJ: Authority Having Jurisdiction
 - 3. BICSI: Building Industry Consulting Service International
 - 4. EIA: Electronics Industry Alliance
 - 5. IT: Information Technology
 - 6. RCDD: Registered Communications Distribution Designer

- 7. RoHS Restriction of Hazardous Substances
- 8. TCIM: Telecommunication Cabling Installation Manual
- 9. TDMM: Telecommunications Distribution Methods Manual
- 10. TIA: Telecommunications Industry Association
- 11. UL: Underwriters Laboratory
- B. Codes and Regulations: (Note: Reference Division One for specific code versions governing the work in addition to the information noted below.)
 - 1. National Electric Code, (NEC) 2014
 - 2. National Electric Safety Code (NESC) 2012
 - 3. State Electric Code
 - 4. State Building Code
 - 5. Local Municipal Codes
- C. Reference Material: Refer to the most recent version, update or addenda.
 - 1. Telecommunications Industry Association/Electronics Industries Alliance (TIA/EIA) standards and specifications:
 - a. TIA/EIA-568-C.1: Commercial Building Telecommunications Cabling Standard Part-1: General Requirements 2012
 - b. TIA/EIA-569 Commercial Building Standard for Telecommunications Pathways and Spaces 2013
 - c. ANSI/TIA-942-A-1 Telecommunications Infrastructure for Data Centers 2013
 - d. ANSI/J-STD-607-B Commercial Building Grounding (Earthing)and Bonding Requirements for Telecommunication 2011
 - 2. Building Industry Consulting Services International (BICSI) Manuals:
 - a. Telecommunications Distribution Methods Manual (TDMM) 12th Edition
 - b. Information Transport Systems Installation Manual (ITSIMM) 7th Edition

1.5 ADMINISTRATIVE REQUIREMENTS

A. Coordination:

1. Install and coordinate the telecommunications cabling work in cooperation with other trades installing interrelated work. Before installation, make proper provisions to avoid interference in a manner accepted by the architect. Any repairs or changes made necessary in the contract work, caused by the contractors neglect, shall be made by the contractor at their own expense.

B. Scheduling:

1. The overall construction schedule must be carefully reviewed to determine all required interfacing and timing of the work. All such documents shall be available through the General Contractor or Construction Manager.

1.6 ACTION SUBMITTALS

A. Product Data:

- 1. Submit all product data in accordance with general requirements of the construction documents.
- 2. Submit product cut sheets and a detailed list of components prior to commencement of Division-27 work for A/E review and action.
- 3. Refer to Division 01 Section containing "Product Substitutions" for Alternate and "Or Equal" designated products.
- 4. Any request of an alternate or substitution must be submitted to the A/E for action.
- 5. Manufacturer's catalog data and applicable special fabrication and installation details.
- 6. Submit manufacturer's installation instructions.

B. Shop Drawings:

- 1. Submit all shop drawings in accordance with the general requirements of the construction documents per Division 01 Section containing "Product Submittals".
- 2. Submit shop drawings prior to commencement of Division-27 work for A/E review and action.
- 3. Shop drawings shall include evidence of voice and data system cabling pathways coordinated with field conditions and the work of other trades.
- 4. Shop drawings shall include a telecommunications conduit allocation matrix that includes all technology conduits and pathways utilized or empty. This submittal shall have a written component and a visual component for review and action by the A/E prior to installation.

1.7 INFORMATIONAL SUBMITTALS

A. Certificates:

- 1. Submit management and installation team reference documentation verifying:
 - a. The project manager is a RCDD in good standing with BICSI and is qualified to manage the scope of work described in the contract documents and has five (5) years of experience managing similar projects in size and scope. The documentation shall include the registration number.
 - b. The field supervisor is a BICSI trained technician that is qualified to perform and oversee the work described in the contract documents.

B. Qualification Statements:

1. At a minimum, fifty percent (50%) of the onsite contractor provided field technicians shall be factory certified within 12 months prior to start of the project by the manufacturer of the selected telecommunications system components being installed. Proof of certification shall be available on site for review at all times for each field technician.

1.8 CLOSEOUT SUBMITTALS

- A. As-Built Drawings:
 - 1. Submit all as-built drawings in accordance with the general requirements of the construction documents per Division 01 Section containing "Project Record Documents."
 - 2. Submit as-built drawings after completion of all Division-27 work for A/E and Owner reference.

1.9 QUALITY ASSURANCE

- A. Oualifications Manufacturer:
 - 1. Component manufactures shall be ISO 9001:2000 and offer products that are RoHS compliant.
- B. Qualifications Installer:
- C. At a minimum, fifty percent (50%) of the onsite contractor provided field technicians shall be factory certified within 12 months by the manufacturer of the selected telecommunications system components being installed. Proof of certification shall be available on site for review at all times for each field technician.

PART 2 - PRODUCTS

2.1 NON-CONTINUOUS CABLE SUPPORTS

A. Manufacturer List:

- 1. Erico Caddy CableCat support system
- 2. Panduit J-Mod cable support system

B. Product Options:

- 1. The indicated manufacturers shall be the basis of the design and each component selected shall address the particular infrastructure requirements.
- 2. Select support system components capable of supporting the telecommunications cable quantities required for each location. Options are as follows:
 - a. Support slings
 - b. Four inch (0'4"), two inch (0'2") J-hook supports

C. Description:

- 1. Non-Continuous Cable Supports shall be available in multiple sizes, styles and materials. Rigid supports shall be equipped with flared edges and pre-configured bend radius controls.
- 2. Provide drop wire supports and threaded rod assemblies in areas where structural mounting surfaces are non-functional or inaccessible.
- 3. Sling assemblies shall provide a bearing surface of sufficient width to comply with required bend radii of high-performance UTP and optical fiber cables. Support slings shall have a static load limit of 100 lbs.
- 4. Non-Continuous Cable Supports sized 1 5/16" and larger shall have a cable retainer strap to provide containment of cables within the hanger. The cable retainer strap shall be removable and reusable.
- 5. Select approved Non-Continuous Cable Supports suitable for specific installation environments and/or air handling (plenum) spaces.

2.2 3-CELL FLEXIBLE FABRIC TEXTILE RACEWAY, INNERDUCT

A. Manufacturer List:

1. MaxCell Group/TVC Communications

B. Product Options:

- 1. Textile Innerduct
 - a. Standard Outdoor Textile Innerduct: Micro (33mm), 2-inch, 3-inch and 4-inch single or multi- cell polyester/nylon textile innerduct containing 1250lb polyester flat woven pull tape.
 - b. Tracer wire required. Refer to Site drawings for model number.
- 2. Measured Pull Tape
 - a. Pull Tape: measuring and pulling tape constructed of synthetic fiber, printed with accurate sequential footage marks. Color-coded.
 - b. Materials
- 3. White Polyester and Nylon resin polymer

PART 3 - EXECUTION

3.1 GENERAL

- A. Follow all manufacturers' instructions.
- B. Coordinate with all other trades prior to installation.
- C. All telecommunications cabling not routed through conduit or cable ladder shall be supported every 60" or less.

D. Telecommunications cables shall not be supported by any other trades, and shall be fully-supported by independent methods.

3.2 EXAMINATION:

A. Examine substrates for compliance with requirements for installation tolerances and other conditions affecting performance of cable tray supports. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.3 INSTALLATION

- A. Provide MaxCell, 4" 3-cell innerducts in one (1) only of the 4" UG conduit between the MDF (IT1213) and external pullbox. Refer keynote 16, detail/sheet 3/IT601.
- B. Install cable supports level and plumb according to drawings, original design, and referenced standards.
- C. All cable supports should be provided using a minimum of ¼" All Threaded Rod (ATR) where not attached to walls or columns. Verify Rod or Cable support style and capacity is adequate for supports, cabling, and future growth.
- D. Special accessories shall be furnished as required to protect, support and install a non-continuous cable support system.
- E. Coordinate with other work as necessary to properly interface installation of cable supports.
- F. Fasten supports to structure. Install supports at each connection point, at end of each run, and at other points to maintain spacing between supports of 60" maximum.
- G. Install firestopping in accordance with local and NFPA regulations to sustain ratings when passing cable tray through fire-rated elements.

END OF SECTION

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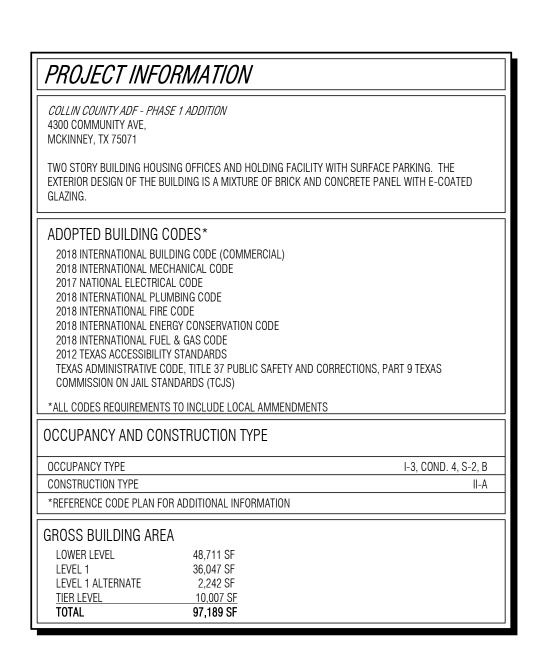
COLLIN COUNTY ADF - PHASE 1 ADDITION

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LIST OF DRAWINGS

TDLR# TABS2021013207

LIST OF DRAWINGS



PROJECT CONTACTS	
OWNER COLLIN COUNTY BILL BURKE 4600 COMMUNITY AVE, MCKINNEY, TX 75071 972-547-5340 (T) 972-547-5385 (F)	
ARCHITECT BRINKLEY SARGENT WIGINTON ARCHITECTS 5000 QUORUM DRIVE, SUITE 600 DALLAS, TX 75254 972-960-9970 (T) 972-960-9751 (F)	
CIVIL PACHECO KOCH 118 N. OHIO ST, CELINA, TX 75009 214-451-2765 (T)	
STRUCTURAL JQ ENGINEERING 100 GLASS ST, DALLAS, TX 75207 214-752-9098 (T)	
MEP / IT MD ENGINEERING 1255 W 15TH ST, PLANO, TX 75075 469-467-0200 (T)	
SECURITY LATTATECH 1255 W 15TH ST SUITE 300, PLANO, TX 75075	

972-633-5850 (T)

GENERAL NOTES

FIRST LEVEL FINISH FLOOR ELEVATION : 100'-0" = 626.50

SPECIFIED & INDICATED ON THESE DOCUMENTS.

OTHER FEATURES UNIQUE TO THIS PROJECT.

UNLESS NOTED OTHERWISE ON DRAWINGS.

MECHANICAL & STRUCT. DRAWINGS.

AS DIRECTED BY THE ARCHITECT.

INSTALLATION OF SUCH ITEMS.

BRINKLEY SARGENT WIGINTON ARCHITECTS 20XX.

NOTED OR SHOWN OTHERWISE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR & OBTAIN ALL PERMITS & LICENSES, & PAY ANY

IN GENERAL, WORK UNDER THIS CONTRACT INCLUDES SITE WORK, DEMOLITION, FOUNDATIONS,

COMPANIES HAVING JURISDICTION TO VERIFY LOCATION OF ALL EXISTING UTILITY LINES & ANY

DIMENSIONS: ALL PLAN DIMENSIONS ARE FROM FACE OF MASONRY OR FACE OF STUD, UNLESS

NO EXPOSED STUDS WILL BE PERMITTED IN AREAS ACCESSIBLE TO THE PUBLIC REGARDLESS OF

ALL GYPSUM BOARD SHALL BE TAPED, BEDDED & SANDED & HAVE ALL HOLES & VOIDS SEALED,

COORDINATE WIRING OF ALL DEVICES TO MOUNT FLUSH AGAINST WALLS. CONDUIT MAY RUN

ALL PENETRATIONS OF PIPES, CONDUITS, DUCTS, VENTS, ETC. SHALL BE TIGHTLY SEALED TO PREVENT PASSAGE OF SMOKE & FIRE COMMENSURATE WITH THE RATING OF THE PARTITION

). MATERIAL OR FINISHES NOTED ON DRAWINGS ARE FOR GENERAL INFORMATION & TO FACILITATE INTERPRETATION OF THE DRAWINGS. THE CONTRACTOR SHALL FURNISH OTHER MATERIALS,

CONTRACTOR SHALL, IN THE WORK OF ALL TRADES, PERFORM ANY & ALL CUTTING, PATCHING, REPAIRING, RESTORING & THE LIKE NECESSARY TO COMPLETE THE WORK & TO RESTORE ANY DAMAGED OR AFFECTED SURFACES RESULTING FROM THE WORK OF THESE CONTRACTS TO A

14. FOR SIZE & LOCATION OF ALL OPENINGS & FOR MECHANICAL DUCTWORK & PLUMBING, SEE

. WHERE FACTORY FINISHED OR FACTORY PRIMED ITEMS, SUCH AS GRILLES, DIFFUSERS, MTL. TRIM & ACCESSORIES OCCUR, THEY SHALL BE PAINTED TO MATCH THE ADJACENT SURFACE OR

CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS & DIMENSIONS AT THE JOB SITE WHICH MAY AFFECT THIS WORK PRIOR TO STARTING THE WORK, & SHALL NOTIFY THE OWNER &

THESE DRAWINGS ARE THE SOLE PROPERTY OF BRINKLEY SARGENT WIGINTON ARCHITECTS, INC. THE USE OR RE-USE OF THESE DRAWINGS IS HEREBY RESTRICTED TO THE ORIGINAL SITE FOR

WHICH THEY WERE PREPARED. REPRODUCTION OF THESE DRAWINGS, IN WHOLE OR IN PART, WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT IS HEREBY PROHIBITED. COPYRIGHT

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PROVIDE BLOCKING OR GROUTED CMU CELLS BEHIND ALL SIGNS, FIXTURES, PARTITIONS, ACCESSORIES, ETC., & WHERE INDICATED OR REQUIRED TO INSURE PROPER & SECURE

CONDUIT IS NOT TO BE EXPOSED IN ANY PUBLIC SPACES TO THE EXTENT POSSIBLE.

EXPOSED IN MECHANICAL SPACES & AT EXPOSED CEILINGS ONLY.

ACCESSORIES & OR FINISHES AS REQUIRED TO COMPLETE WORK.

FINISHED CONDITION TO THE SATISFACTION OF THE ARCHITECT & OWNER. 2. ALL MATERIALS & FINISHES USED ON THIS PROJECT SHALL BE NEW & UNUSED. 13. CLG. HEIGHTS NOTED ON DRAWINGS ARE FROM FINISH FLOOR TO CLG. UNLESS NOTED

ARCHITECT OF ANY DISCREPANCIES IMMEDIATELY UPON DISCOVERY.

STRUCT. WORK AS REQUIRED TO ENCLOSE THE BLDG. FLOOR SLABS, INTERIOR PARTITIONS,

INTERIOR FINISHES, WALL SECTIONS, AQUATICS, MECHANICAL & ELECTRICAL WORK AS

PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL CONTACT ALL UTILITY

ALT ALUM ARCH	ABOVE FINISH FLOOR ALTERNATE ALUMINUM ARCHITECTURAL	MISC MIN MTD MTL	MICROPHONE MISCELLANEOUS MINIMUM MOUNTED METAL
BD BLDG BO BOD	BOARD BUILDING BOTTOM OF BOTTOM OF DECK	N NIC NO NOM	NORTH NOT IN CONTRACT NUMBER NOMINAL
CFCI CG CJ CLG CLR CMU COL CONC CONF CONT	CONTRACTOR FURNISHED CONTRACTOR INSTL'D CORNER GUARD CONTROL JOINT CEILING CLEAR CONCRETE MASONRY UNIT COLUMN CONCRETE CONFERENCE CONTINUOUS	NRC NTS OC OFCI OFOI OH OHD OZ	NOISE REDUCTION COEFFICIENT NOT TO SCALE ON CENTER OWNER FURNISHED CONTRACTOR INSTALLED OWNER FURNISHED OWNER INSTALLED OPPOSITE HAND OVERHEAD DOOR OUNCE
CPT CT DBL DEFS DEMO DEPT DHM DIA DIM DN DR DWR DWR	CARPET CERAMIC TILE DOUBLE DIRECT-APPLIED EXTERIOR FINISH SYSTEM DEMOLISH/DEMOLITION DEPARTMENT DETENTION HOLLOW METAL DIAMETER DIMENSION DOWN DOOR DRAWER DRAWING	PERF PERIM PERP PNL PLAM PLUMB PLWD PR PREFAB PT PNT PVC PVT PWR	PERFORATED PERIMETER PERPINDICULAR PANEL PLASTIC LAMINATE PLUMBING PLYWOOD PROPOSAL REQUEST PREFABRICATED PRESSURE TREATED PAINT POLYVINYL CHLORIDE PRIVATE POWER
EA EIFS EJ ELEC ELEV EQ EQUIP EXIST EXP EXT	EACH EXTERIOR INSULATION AND FINISH SYSTEM EXPANSION JOINT ELECTRICAL ELEVATION / ELEVATOR EQUAL EQUIPMENT EXISTING EXPANSION EXTERIOR	RAD REBAR RECOM REF REFR REG REINF REM REQ RFI	RADIUS REINFORCING BAR RECOMMENDED REFERENCE REFRIGERATOR REGULAR REINFORCING REMOVE REQUIRED / REQUIREMENTS REQUEST FOR INFORMATION
FAR FD FDC FE FEC FF FFE FF&E FLOUR FLR FNDN FO FOC FOF FOS	FLOOR AREA RATIO FLOOR DRAIN FIRE DEPARTMENT CONTROL FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FINISH FLOOR FINISH FLOOR ELEVATION FIXTURE, FURNISHINGS & EQUIPMENT FLOURESCENT FLOOR FOUNDATION FACE OF FACE OF CONCRETE FACE OF STUD	RO ROW RPM RWC RWL SAN SCHED SHR SF SI SIM SPEC SPK SS STL STRUCT	ROUGH OPENING RIGHT OF WAY REVOLUTIONS PER MINUTE RAIN WATER CONDUCTOR RAIN WATER LEADER SANITARY SCHEDULE SHOWER SQUARE FEET SUPPLEMENTAL INSTRUCTION SIMILAR SPECIFICATION SPEAKER STAINLESS STEEL STEUCTURAL
GA GALV GWB GYP	GAUGE GALVANIZED GYPSUM WALL BOARD GYPSUM	T&G TAN	SYSTEM TONGUE AND GROOVE TANGENT TEVAS ACCESSIBILITY STANDARDS
HB HGT HMTL HORIZ HR HT HVAC HW HWD	HOSE BIB HEIGHT HOLLOW METAL HORIZONTAL HOUR HEIGHT HEATING, VENTILATING AND AIR CONDITIONING HARDWARE HARDWOOD	TAS TC TD TELE TEMP TLT TO TOC TOS TPO TYP	TEXAS ACCESSIBILITY STANDARDS TOP OF CURB TRENCH DRAIN TELEPHONE TEMPERATURE TOILET TOP OF TOP OF CONCRETE TOP OF STEEL THERMOPLASTIC POLYOLEFIN TYPICAL
ILO INFO INSUL INT	IN LIEU OF INFORMATION INSULATION INTERIOR	UNO VAC	UNLESS NOTED OTHERWISE VACUUM
J-BOX JAN JCT JT	JUNCTION BOX JANITOR JUNCTION JOINT	VERT VEST VIF VWC	VERTICAL VESTIBULE VERIFY IN FIELD VINYL WALL COVERING
LAV LCD LED LT LTG	LAVATORY LIQUID CRYSTAL DIODE LIGHT EMITTING DIODE LIGHT LIGHTING	W/ W/O WC WD WDW WF WH	WITH WITHOUT WATER CLOSET WOOD WINDOW WIDE FLANGE WATER HEATER

MAINT MAINTENANCE MAT MATERIAL MAX MAXIMUM

MECH MECHANICAL MFR MANUFACTURER
MIC MICROPHONE

ABBREVIATIONS

ADDENDUM

ACOUSTIC CEILING TILE

ABOVE FINISH FLOOR

AMERICANS WITH DISABILITIES ACT

SYMBOL LEGI	END		
1 A101	SECTION REFERENCE	101 ROOM NAME	ROOM TAG NAME & NUMBER
1 A101	SECTION DETAIL REFERENCE	101	ROOM TAG NUMBER ONLY
1 A101	DETAIL REFERENCE	(1408A)	DOOR TAG
A101 1	EXTERIOR ELEVATION	EQNUM	EQUIPMENT TAG
01/ A101	INTERIOR ELEVATION	A1	GLAZING TAG
——————————————————————————————————————	WALL TAG	(1t)	WINDOW TAG
TITLEELEVATION	ELEVATION DATUM	0'-0"	SPOT ELEVATION
NORTH	TRUE NORTH ARROW	PLAN	PLAN NORTH ARROW

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CVR COVER SHEET CIVIL C100	SHEET NO.	DRAWING TITLE
CVR COVER SHEET CIVIL C100	+0) (D	
COMPANDED CONTROL PLAN		COVER SHEET
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S106 HIGH ROOF DECK ATTACHMENT PLAN S107 LOW ROOF WIND UPLIFT PLAN S108 LOW ROOF DECK ATTACHMENT PLAN S109 WIND UPLIFT AND DECK ATTACHMENT PLANS - AL S201 LOWER LEVEL EAST - FOUNDATION PLAN S202 LOWER LEVEL WEST- FOUNDATION PLAN S211 LEVEL 1 EAST - FRAMING PLAN S212 LEVEL 1 WEST - FRAMING PLAN S221 2ND TIER LEVEL EAST - FRAMING PLAN S222 2ND TIER LEVEL WEST - FRAMING PLAN S231 ROOF EAST - FRAMING PLAN S232 ROOF WEST - FRAMING PLAN S233 ALTERNATE #1 FRAMING PLAN S234 SITE GATE ALTERNATE #2 S240 GENERATOR PAD PLANS AND DETAILS S301 TYPICAL CONCRETE DETAILS S302 TYPICAL CONCRETE DETAILS S303 CONCRETE DETAILS S304 CONCRETE DETAILS S305 CONCRETE DETAILS S306 CONCRETE DETAILS S307 CONCRETE DETAILS S308 CONCRETE DETAILS S309 TYPICAL ELEVATED CONCRETE DETAILS S320 TYPICAL ELEVATED CONCRETE DETAILS S321 CONCRETE DETAILS S322 CONCRETE DETAILS S323 CONCRETE DETAILS S324 CONCRETE DETAILS S325 CONCRETE DETAILS	L3.01 L4.00 STRUCTUR/ S100	SPECIFICATIONS AL STRUCTURAL NOTES
S107 LOW ROOF WIND UPLIFT PLAN S108 LOW ROOF DECK ATTACHMENT PLAN S109 WIND UPLIFT AND DECK ATTACHMENT PLANS - AL S201 LOWER LEVEL EAST - FOUNDATION PLAN S202 LOWER LEVEL WEST- FOUNDATION PLAN S211 LEVEL 1 EAST - FRAMING PLAN S212 LEVEL 1 WEST - FRAMING PLAN S221 2ND TIER LEVEL EAST - FRAMING PLAN S222 2ND TIER LEVEL WEST - FRAMING PLAN S231 ROOF EAST - FRAMING PLAN S232 ROOF WEST - FRAMING PLAN S233 ALTERNATE #1 FRAMING PLAN S234 SITE GATE ALTERNATE #2 S240 GENERATOR PAD PLANS AND DETAILS S301 TYPICAL CONCRETE DETAILS S302 TYPICAL CONCRETE DETAILS S303 CONCRETE DETAILS S304 CONCRETE DETAILS S305 CONCRETE DETAILS S306 CONCRETE DETAILS S307 CONCRETE DETAILS S308 CONCRETE DETAILS S309 TYPICAL ELEVATED CONCRETE DETAILS S320 TYPICAL ELEVATED CONCRETE DETAILS S321 CONCRETE DETAILS S322 CONCRETE DETAILS S323 CONCRETE DETAILS S324 CONCRETE DETAILS S325 CONCRETE DETAILS	L3.01 L4.00 STRUCTUR/	SPECIFICATIONS AL STRUCTURAL NOTES STRUCTURAL NOTES
S108 LOW ROOF DECK ATTACHMENT PLAN S109 WIND UPLIFT AND DECK ATTACHMENT PLANS - AL S201 LOWER LEVEL EAST - FOUNDATION PLAN S202 LOWER LEVEL WEST - FOUNDATION PLAN S202 LEVEL 1 EAST - FRAMING PLAN S211 LEVEL 1 WEST - FRAMING PLAN S212 LEVEL 1 WEST - FRAMING PLAN S221 2ND TIER LEVEL EAST - FRAMING PLAN S222 2ND TIER LEVEL WEST - FRAMING PLAN S231 ROOF EAST - FRAMING PLAN S232 ROOF WEST - FRAMING PLAN S233 ALTERNATE #1 FRAMING PLANS S234 SITE GATE ALTERNATE #2 S240 GENERATOR PAD PLANS AND DETAILS S301 TYPICAL CONCRETE DETAILS S302 TYPICAL CONCRETE DETAILS S303 CONCRETE DETAILS S304 CONCRETE DETAILS S305 CONCRETE DETAILS S306 CONCRETE DETAILS S307 CONCRETE DETAILS S308 CONCRETE DETAILS S309 CONCRETE DETAILS S309 CONCRETE DETAILS S300 CONCRETE DETAILS S301 CONCRETE DETAILS S302 TYPICAL ELEVATED CONCRETE DETAILS S303 CONCRETE DETAILS S304 CONCRETE DETAILS S305 CONCRETE DETAILS S306 CONCRETE DETAILS S307 CONCRETE DETAILS S308 CONCRETE DETAILS S320 TYPICAL ELEVATED CONCRETE DETAILS S321 CONCRETE DETAILS S322 CONCRETE DETAILS S323 CONCRETE DETAILS S324 CONCRETE DETAILS S325 CONCRETE DETAILS	L3.01 L4.00 STRUCTUR/ S100 S101 S102 S104	SPECIFICATIONS AL STRUCTURAL NOTES STRUCTURAL NOTES SPECIAL INSPECTIONS OVERALL DIMENSION PLAN
S109 WIND UPLIFT AND DECK ATTACHMENT PLANS - AL S201 LOWER LEVEL EAST - FOUNDATION PLAN S202 LOWER LEVEL WEST - FOUNDATION PLAN S211 LEVEL 1 EAST - FRAMING PLAN S212 LEVEL 1 WEST - FRAMING PLAN S212 2ND TIER LEVEL EAST - FRAMING PLAN S221 2ND TIER LEVEL WEST - FRAMING PLAN S222 2ND TIER LEVEL WEST - FRAMING PLAN S231 ROOF EAST - FRAMING PLAN S232 ROOF WEST - FRAMING PLAN S233 ALTERNATE #1 FRAMING PLAN S234 SITE GATE ALTERNATE #2 S240 GENERATOR PAD PLANS AND DETAILS S301 TYPICAL CONCRETE DETAILS S302 TYPICAL CONCRETE DETAILS S303 CONCRETE DETAILS S304 CONCRETE DETAILS S305 CONCRETE DETAILS S306 CONCRETE DETAILS S307 CONCRETE DETAILS S308 CONCRETE DETAILS S309 TYPICAL ELEVATED CONCRETE DETAILS S320 TYPICAL ELEVATED CONCRETE DETAILS S321 CONCRETE DETAILS S322 CONCRETE DETAILS S323 CONCRETE DETAILS S324 CONCRETE DETAILS S325 CONCRETE DETAILS	L3.01 L4.00 STRUCTUR/ S100 S101 S102 S104 S106	SPECIFICATIONS AL STRUCTURAL NOTES STRUCTURAL NOTES SPECIAL INSPECTIONS OVERALL DIMENSION PLAN HIGH ROOF DECK ATTACHMENT PLAN
LOWER LEVEL WEST-FOUNDATION PLAN LEVEL 1 EAST - FRAMING PLAN LEVEL 1 WEST - FRAMING PLAN LEVEL 1 WEST - FRAMING PLAN LEVEL 1 WEST - FRAMING PLAN LEVEL 2ND TIER LEVEL EAST - FRAMING PLAN LEVEL WEST - FRAMING PLAN LEVEL LEVAN LEVEL WEST - FRAMING PLAN LEVEL LEVAN LEVEL LEVA	L3.01 L4.00 STRUCTUR/ S100 S101 S102 S104 S106 S107	SPECIFICATIONS AL STRUCTURAL NOTES STRUCTURAL NOTES SPECIAL INSPECTIONS OVERALL DIMENSION PLAN HIGH ROOF DECK ATTACHMENT PLAN LOW ROOF WIND UPLIFT PLAN
S211 LEVEL 1 EAST - FRAMING PLAN S212 LEVEL 1 WEST - FRAMING PLAN S221 2ND TIER LEVEL EAST - FRAMING PLAN S222 2ND TIER LEVEL WEST - FRAMING PLAN S231 ROOF EAST - FRAMING PLAN S232 ROOF WEST - FRAMING PLAN S233 ALTERNATE #1 FRAMING PLANS S234 SITE GATE ALTERNATE #2 S240 GENERATOR PAD PLANS AND DETAILS S301 TYPICAL CONCRETE DETAILS S302 TYPICAL CONCRETE DETAILS S303 CONCRETE DETAILS S304 CONCRETE DETAILS S305 CONCRETE DETAILS S306 CONCRETE DETAILS S307 CONCRETE DETAILS S308 CONCRETE DETAILS S309 TYPICAL ELEVATED CONCRETE DETAILS S320 TYPICAL ELEVATED CONCRETE DETAILS S321 CONCRETE DETAILS S322 CONCRETE DETAILS S323 CONCRETE DETAILS S324 CONCRETE DETAILS	L3.01 L4.00 STRUCTUR/ S100 S101 S102 S104 S106	SPECIFICATIONS AL STRUCTURAL NOTES STRUCTURAL NOTES SPECIAL INSPECTIONS OVERALL DIMENSION PLAN HIGH ROOF DECK ATTACHMENT PLAN LOW ROOF WIND UPLIFT PLAN LOW ROOF DECK ATTACHMENT PLAN
S212 LEVEL 1 WEST - FRAMING PLAN S221 2ND TIER LEVEL EAST - FRAMING PLAN S222 2ND TIER LEVEL WEST - FRAMING PLAN S231 ROOF EAST - FRAMING PLAN S232 ROOF WEST - FRAMING PLAN S233 ALTERNATE #1 FRAMING PLANS S234 SITE GATE ALTERNATE #2 S240 GENERATOR PAD PLANS AND DETAILS S301 TYPICAL CONCRETE DETAILS S302 TYPICAL CONCRETE DETAILS S303 CONCRETE DETAILS S304 CONCRETE DETAILS S305 CONCRETE DETAILS S306 CONCRETE DETAILS S307 CONCRETE DETAILS S308 CONCRETE DETAILS S309 TYPICAL ELEVATED CONCRETE DETAILS S320 TYPICAL ELEVATED CONCRETE DETAILS S321 CONCRETE DETAILS S322 CONCRETE DETAILS S323 CONCRETE DETAILS	L3.01 L4.00 STRUCTUR/ S100 S101 S102 S104 S106 S107 S108 S109 S201	SPECIFICATIONS AL STRUCTURAL NOTES STRUCTURAL NOTES SPECIAL INSPECTIONS OVERALL DIMENSION PLAN HIGH ROOF DECK ATTACHMENT PLAN LOW ROOF WIND UPLIFT PLAN LOW ROOF DECK ATTACHMENT PLAN WIND UPLIFT AND DECK ATTACHMENT PLANS - AI LOWER LEVEL EAST - FOUNDATION PLAN
2ND TIER LEVEL EAST - FRAMING PLAN 2222 2ND TIER LEVEL WEST - FRAMING PLAN 2331 ROOF EAST - FRAMING PLAN 2332 ROOF WEST - FRAMING PLAN 2333 ALTERNATE #1 FRAMING PLAN 2334 SITE GATE ALTERNATE #2 240 GENERATOR PAD PLANS AND DETAILS 2301 TYPICAL CONCRETE DETAILS 2302 TYPICAL CONCRETE DETAILS 2303 CONCRETE DETAILS 2304 CONCRETE DETAILS 2305 CONCRETE DETAILS 2306 CONCRETE DETAILS 2307 CONCRETE DETAILS 2308 CONCRETE DETAILS 2309 TYPICAL ELEVATED CONCRETE DETAILS 2310 CONCRETE DETAILS 2321 CONCRETE DETAILS 2322 CONCRETE DETAILS 2323 CONCRETE DETAILS 2324 CONCRETE DETAILS 2325 CONCRETE DETAILS 2325 CONCRETE DETAILS	L3.01 L4.00 STRUCTUR/ S100 S101 S102 S104 S106 S107 S108 S109 S201 S202	SPECIFICATIONS AL STRUCTURAL NOTES STRUCTURAL NOTES SPECIAL INSPECTIONS OVERALL DIMENSION PLAN HIGH ROOF DECK ATTACHMENT PLAN LOW ROOF WIND UPLIFT PLAN LOW ROOF DECK ATTACHMENT PLAN WIND UPLIFT AND DECK ATTACHMENT PLANS - AI LOWER LEVEL EAST - FOUNDATION PLAN LOWER LEVEL WEST - FOUNDATION PLAN
ROOF EAST - FRAMING PLAN ROOF WEST - FRAMING P	L3.01 L4.00 STRUCTURA S100 S101 S102 S104 S106 S107 S108 S109 S201 S202 S211	SPECIFICATIONS AL STRUCTURAL NOTES STRUCTURAL NOTES SPECIAL INSPECTIONS OVERALL DIMENSION PLAN HIGH ROOF DECK ATTACHMENT PLAN LOW ROOF WIND UPLIFT PLAN LOW ROOF DECK ATTACHMENT PLAN WIND UPLIFT AND DECK ATTACHMENT PLANS - AI LOWER LEVEL EAST - FOUNDATION PLAN LOWER LEVEL WEST- FOUNDATION PLAN LEVEL 1 EAST - FRAMING PLAN
ROOF WEST - FRAMING PLAN S233 ALTERNATE #1 FRAMING PLANS S234 SITE GATE ALTERNATE #2 S240 GENERATOR PAD PLANS AND DETAILS S301 TYPICAL CONCRETE DETAILS S302 TYPICAL CONCRETE DETAILS S303 CONCRETE DETAILS S304 CONCRETE DETAILS S305 CONCRETE DETAILS S306 CONCRETE DETAILS S307 CONCRETE DETAILS S308 CONCRETE DETAILS S308 CONCRETE DETAILS S320 TYPICAL ELEVATED CONCRETE DETAILS S321 CONCRETE DETAILS S322 CONCRETE DETAILS S323 CONCRETE DETAILS S324 CONCRETE DETAILS S325 CONCRETE DETAILS	L3.01 L4.00 STRUCTUR/ S100 S101 S102 S104 S106 S107 S108 S109 S201 S202	SPECIFICATIONS AL STRUCTURAL NOTES STRUCTURAL NOTES SPECIAL INSPECTIONS OVERALL DIMENSION PLAN HIGH ROOF DECK ATTACHMENT PLAN LOW ROOF WIND UPLIFT PLAN LOW ROOF DECK ATTACHMENT PLAN WIND UPLIFT AND DECK ATTACHMENT PLANS - AI LOWER LEVEL EAST - FOUNDATION PLAN LOWER LEVEL WEST - FOUNDATION PLAN LEVEL 1 EAST - FRAMING PLAN LEVEL 1 WEST - FRAMING PLAN
S233 ALTERNATE #1 FRAMING PLANS S234 SITE GATE ALTERNATE #2 S240 GENERATOR PAD PLANS AND DETAILS S301 TYPICAL CONCRETE DETAILS S302 TYPICAL CONCRETE DETAILS S303 CONCRETE DETAILS S304 CONCRETE DETAILS S305 CONCRETE DETAILS S306 CONCRETE DETAILS S307 CONCRETE DETAILS S308 CONCRETE DETAILS S308 CONCRETE DETAILS S320 TYPICAL ELEVATED CONCRETE DETAILS S321 CONCRETE DETAILS S322 CONCRETE DETAILS S323 CONCRETE DETAILS S324 CONCRETE DETAILS S325 CONCRETE DETAILS	L3.01 L4.00 STRUCTURA S100 S101 S102 S104 S106 S107 S108 S109 S201 S202 S211 S212 S221 S222	SPECIFICATIONS AL STRUCTURAL NOTES STRUCTURAL NOTES SPECIAL INSPECTIONS OVERALL DIMENSION PLAN HIGH ROOF DECK ATTACHMENT PLAN LOW ROOF WIND UPLIFT PLAN LOW ROOF DECK ATTACHMENT PLAN WIND UPLIFT AND DECK ATTACHMENT PLAN LOWER LEVEL EAST - FOUNDATION PLAN LOWER LEVEL WEST - FOUNDATION PLAN LEVEL 1 EAST - FRAMING PLAN LEVEL 1 WEST - FRAMING PLAN 2ND TIER LEVEL WEST - FRAMING PLAN
S234 SITE GATE ALTERNATE #2 S240 GENERATOR PAD PLANS AND DETAILS S301 TYPICAL CONCRETE DETAILS S302 TYPICAL CONCRETE DETAILS S303 CONCRETE DETAILS S304 CONCRETE DETAILS S305 CONCRETE DETAILS S306 CONCRETE DETAILS S307 CONCRETE DETAILS S308 CONCRETE DETAILS S320 TYPICAL ELEVATED CONCRETE DETAILS S321 CONCRETE DETAILS S322 CONCRETE DETAILS S323 CONCRETE DETAILS S324 CONCRETE DETAILS S325 CONCRETE DETAILS	L3.01 L4.00 STRUCTURA S100 S101 S102 S104 S106 S107 S108 S109 S201 S202 S211 S212 S221 S222 S231	SPECIFICATIONS AL STRUCTURAL NOTES STRUCTURAL NOTES SPECIAL INSPECTIONS OVERALL DIMENSION PLAN HIGH ROOF DECK ATTACHMENT PLAN LOW ROOF WIND UPLIFT PLAN LOW ROOF DECK ATTACHMENT PLAN WIND UPLIFT AND DECK ATTACHMENT PLANS - AI LOWER LEVEL EAST - FOUNDATION PLAN LOWER LEVEL WEST - FOUNDATION PLAN LEVEL 1 EAST - FRAMING PLAN 2ND TIER LEVEL EAST - FRAMING PLAN 2ND TIER LEVEL WEST - FRAMING PLAN ROOF EAST - FRAMING PLAN
S301 TYPICAL CONCRETE DETAILS S302 TYPICAL CONCRETE DETAILS S303 CONCRETE DETAILS S304 CONCRETE DETAILS S305 CONCRETE DETAILS S306 CONCRETE DETAILS S307 CONCRETE DETAILS S308 CONCRETE DETAILS S320 TYPICAL ELEVATED CONCRETE DETAILS S321 CONCRETE DETAILS S322 CONCRETE DETAILS S323 CONCRETE DETAILS S324 CONCRETE DETAILS S325 CONCRETE DETAILS	L3.01 L4.00 STRUCTUR/ S100 S101 S102 S104 S106 S107 S108 S109 S201 S202 S211 S212 S221 S222 S231 S232	SPECIFICATIONS AL STRUCTURAL NOTES STRUCTURAL NOTES SPECIAL INSPECTIONS OVERALL DIMENSION PLAN HIGH ROOF DECK ATTACHMENT PLAN LOW ROOF WIND UPLIFT PLAN LOW ROOF DECK ATTACHMENT PLAN WIND UPLIFT AND DECK ATTACHMENT PLANS - AI LOWER LEVEL EAST - FOUNDATION PLAN LOWER LEVEL WEST - FOUNDATION PLAN LEVEL 1 EAST - FRAMING PLAN LEVEL 1 WEST - FRAMING PLAN 2ND TIER LEVEL EAST - FRAMING PLAN ROOF EAST - FRAMING PLAN ROOF WEST - FRAMING PLAN
S302 TYPICAL CONCRETE DETAILS S303 CONCRETE DETAILS S304 CONCRETE DETAILS S305 CONCRETE DETAILS S306 CONCRETE DETAILS S307 CONCRETE DETAILS S308 CONCRETE DETAILS S320 TYPICAL ELEVATED CONCRETE DETAILS S321 CONCRETE DETAILS S322 CONCRETE DETAILS S323 CONCRETE DETAILS S324 CONCRETE DETAILS S325 CONCRETE DETAILS	L3.01 L4.00 STRUCTURA S100 S101 S102 S104 S106 S107 S108 S109 S201 S202 S211 S212 S221 S222 S231	SPECIFICATIONS AL STRUCTURAL NOTES STRUCTURAL NOTES SPECIAL INSPECTIONS OVERALL DIMENSION PLAN HIGH ROOF DECK ATTACHMENT PLAN LOW ROOF WIND UPLIFT PLAN LOW ROOF DECK ATTACHMENT PLAN WIND UPLIFT AND DECK ATTACHMENT PLANS - AI LOWER LEVEL EAST - FOUNDATION PLAN LOWER LEVEL WEST - FOUNDATION PLAN LEVEL 1 EAST - FRAMING PLAN LEVEL 1 WEST - FRAMING PLAN 2ND TIER LEVEL EAST - FRAMING PLAN ROOF EAST - FRAMING PLAN ROOF WEST - FRAMING PLAN ROOF WEST - FRAMING PLAN
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S304 CONCRETE DETAILS S305 CONCRETE DETAILS S306 CONCRETE DETAILS S307 CONCRETE DETAILS S308 CONCRETE DETAILS S320 TYPICAL ELEVATED CONCRETE DETAILS S321 CONCRETE DETAILS S322 CONCRETE DETAILS S323 CONCRETE DETAILS S324 CONCRETE DETAILS S325 CONCRETE DETAILS	L3.01 L4.00 STRUCTUR/ S100 S101 S102 S104 S106 S107 S108 S109 S201 S202 S211 S212 S221 S222 S231 S232 S233 S234 S240 S301	SPECIFICATIONS AL STRUCTURAL NOTES STRUCTURAL NOTES SPECIAL INSPECTIONS OVERALL DIMENSION PLAN HIGH ROOF DECK ATTACHMENT PLAN LOW ROOF WIND UPLIFT PLAN LOW ROOF DECK ATTACHMENT PLAN WIND UPLIFT AND DECK ATTACHMENT PLANS - AI LOWER LEVEL EAST - FOUNDATION PLAN LOWER LEVEL WEST - FOUNDATION PLAN LEVEL 1 EAST - FRAMING PLAN LEVEL 1 WEST - FRAMING PLAN 2ND TIER LEVEL EAST - FRAMING PLAN 2ND TIER LEVEL WEST - FRAMING PLAN ROOF EAST - FRAMING PLAN ROOF WEST - FRAMING PLAN ALTERNATE #1 FRAMING PLAN SITE GATE ALTERNATE #2 GENERATOR PAD PLANS AND DETAILS TYPICAL CONCRETE DETAILS
S306 CONCRETE DETAILS S307 CONCRETE DETAILS S308 CONCRETE DETAILS S320 TYPICAL ELEVATED CONCRETE DETAILS S321 CONCRETE DETAILS S322 CONCRETE DETAILS S323 CONCRETE DETAILS S324 CONCRETE DETAILS S325 CONCRETE DETAILS	L3.01 L4.00 STRUCTURA S100 S101 S102 S104 S106 S107 S108 S109 S201 S202 S211 S212 S221 S222 S231 S232 S233 S234 S240	SPECIFICATIONS AL STRUCTURAL NOTES STRUCTURAL NOTES SPECIAL INSPECTIONS OVERALL DIMENSION PLAN HIGH ROOF DECK ATTACHMENT PLAN LOW ROOF WIND UPLIFT PLAN LOW ROOF DECK ATTACHMENT PLAN WIND UPLIFT AND DECK ATTACHMENT PLANS - AI LOWER LEVEL EAST - FOUNDATION PLAN LOWER LEVEL WEST - FOUNDATION PLAN LEVEL 1 EAST - FRAMING PLAN LEVEL 1 WEST - FRAMING PLAN 2ND TIER LEVEL EAST - FRAMING PLAN 2ND TIER LEVEL WEST - FRAMING PLAN ROOF EAST - FRAMING PLAN ROOF WEST - FRAMING PLAN ALTERNATE #1 FRAMING PLAN SITE GATE ALTERNATE #2 GENERATOR PAD PLANS AND DETAILS TYPICAL CONCRETE DETAILS
S307 CONCRETE DETAILS S308 CONCRETE DETAILS S320 TYPICAL ELEVATED CONCRETE DETAILS S321 CONCRETE DETAILS S322 CONCRETE DETAILS S323 CONCRETE DETAILS S324 CONCRETE DETAILS S325 CONCRETE DETAILS	L3.01 L4.00 STRUCTUR/ S100 S101 S102 S104 S106 S107 S108 S109 S201 S202 S211 S212 S221 S222 S231 S232 S233 S234 S240 S301 S302	SPECIFICATIONS AL STRUCTURAL NOTES STRUCTURAL NOTES SPECIAL INSPECTIONS OVERALL DIMENSION PLAN HIGH ROOF DECK ATTACHMENT PLAN LOW ROOF WIND UPLIFT PLAN LOW ROOF DECK ATTACHMENT PLAN WIND UPLIFT AND DECK ATTACHMENT PLANS - AI LOWER LEVEL EAST - FOUNDATION PLAN LOWER LEVEL WEST- FOUNDATION PLAN LEVEL 1 EAST - FRAMING PLAN LEVEL 1 WEST - FRAMING PLAN 2ND TIER LEVEL EAST - FRAMING PLAN 2ND TIER LEVEL WEST - FRAMING PLAN ROOF EAST - FRAMING PLAN ROOF WEST - FRAMING PLAN ALTERNATE #1 FRAMING PLAN SITE GATE ALTERNATE #2 GENERATOR PAD PLANS AND DETAILS TYPICAL CONCRETE DETAILS CONCRETE DETAILS
S308 CONCRETE DETAILS S320 TYPICAL ELEVATED CONCRETE DETAILS S321 CONCRETE DETAILS S322 CONCRETE DETAILS S323 CONCRETE DETAILS S324 CONCRETE DETAILS S325 CONCRETE DETAILS	L3.01 L4.00 STRUCTURA S100 S101 S102 S104 S106 S107 S108 S109 S201 S202 S211 S212 S221 S222 S231 S232 S233 S234 S240 S301 S302 S303 S304 S305	SPECIFICATIONS AL STRUCTURAL NOTES STRUCTURAL NOTES SPECIAL INSPECTIONS OVERALL DIMENSION PLAN HIGH ROOF DECK ATTACHMENT PLAN LOW ROOF WIND UPLIFT PLAN LOW ROOF DECK ATTACHMENT PLAN WIND UPLIFT AND DECK ATTACHMENT PLANS - AI LOWER LEVEL EAST - FOUNDATION PLAN LOWER LEVEL WEST - FOUNDATION PLAN LEVEL 1 EAST - FRAMING PLAN LEVEL 1 WEST - FRAMING PLAN 2ND TIER LEVEL EAST - FRAMING PLAN 2ND TIER LEVEL WEST - FRAMING PLAN ROOF EAST - FRAMING PLAN ROOF WEST - FRAMING PLAN ALTERNATE #1 FRAMING PLAN SITE GATE ALTERNATE #2 GENERATOR PAD PLANS AND DETAILS TYPICAL CONCRETE DETAILS CONCRETE DETAILS CONCRETE DETAILS CONCRETE DETAILS
S320 TYPICAL ELEVATED CONCRETE DETAILS S321 CONCRETE DETAILS S322 CONCRETE DETAILS S323 CONCRETE DETAILS S324 CONCRETE DETAILS S325 CONCRETE DETAILS	L3.01 L4.00 STRUCTUR/ S100 S101 S102 S104 S106 S107 S108 S109 S201 S202 S211 S212 S221 S222 S231 S232 S233 S234 S240 S301 S302 S303 S304 S305 S306	SPECIFICATIONS AL STRUCTURAL NOTES STRUCTURAL NOTES SPECIAL INSPECTIONS OVERALL DIMENSION PLAN HIGH ROOF DECK ATTACHMENT PLAN LOW ROOF WIND UPLIFT PLAN LOW ROOF DECK ATTACHMENT PLAN WIND UPLIFT AND DECK ATTACHMENT PLAN LOWER LEVEL EAST - FOUNDATION PLAN LOWER LEVEL EAST - FOUNDATION PLAN LEVEL 1 EAST - FRAMING PLAN LEVEL 1 WEST - FRAMING PLAN 2ND TIER LEVEL EAST - FRAMING PLAN ROOF EAST - FRAMING PLAN ROOF WEST - FRAMING PLAN ALTERNATE #1 FRAMING PLAN SITE GATE ALTERNATE #2 GENERATOR PAD PLANS AND DETAILS TYPICAL CONCRETE DETAILS CONCRETE DETAILS CONCRETE DETAILS CONCRETE DETAILS CONCRETE DETAILS
S322 CONCRETE DETAILS S323 CONCRETE DETAILS S324 CONCRETE DETAILS S325 CONCRETE DETAILS	L3.01 L4.00 STRUCTURA S100 S101 S102 S104 S106 S107 S108 S109 S201 S202 S211 S212 S221 S222 S231 S232 S233 S234 S240 S301 S302 S303 S304 S305	SPECIFICATIONS AL STRUCTURAL NOTES STRUCTURAL NOTES SPECIAL INSPECTIONS OVERALL DIMENSION PLAN HIGH ROOF DECK ATTACHMENT PLAN LOW ROOF WIND UPLIFT PLAN LOW ROOF DECK ATTACHMENT PLAN WIND UPLIFT AND DECK ATTACHMENT PLAN LOWER LEVEL EAST - FOUNDATION PLAN LOWER LEVEL WEST- FOUNDATION PLAN LEVEL 1 EAST - FRAMING PLAN LEVEL 1 WEST - FRAMING PLAN 2ND TIER LEVEL EAST - FRAMING PLAN 2ND TIER LEVEL WEST - FRAMING PLAN ROOF EAST - FRAMING PLAN ROOF WEST - FRAMING PLAN ALTERNATE #1 FRAMING PLAN SITE GATE ALTERNATE #2 GENERATOR PAD PLANS AND DETAILS TYPICAL CONCRETE DETAILS
S323 CONCRETE DETAILS S324 CONCRETE DETAILS S325 CONCRETE DETAILS	L3.01 L4.00 STRUCTURA S100 S101 S102 S104 S106 S107 S108 S109 S201 S202 S211 S212 S221 S222 S231 S232 S233 S234 S240 S301 S302 S303 S304 S305 S306 S307	SPECIFICATIONS AL STRUCTURAL NOTES STRUCTURAL NOTES SPECIAL INSPECTIONS OVERALL DIMENSION PLAN HIGH ROOF DECK ATTACHMENT PLAN LOW ROOF WIND UPLIFT PLAN LOW ROOF DECK ATTACHMENT PLAN WIND UPLIFT AND DECK ATTACHMENT PLANS - AL LOWER LEVEL EAST - FOUNDATION PLAN LOWER LEVEL WEST - FOUNDATION PLAN LEVEL 1 EAST - FRAMING PLAN 2ND TIER LEVEL EAST - FRAMING PLAN 2ND TIER LEVEL WEST - FRAMING PLAN ROOF EAST - FRAMING PLAN ROOF WEST - FRAMING PLAN ALTERNATE #1 FRAMING PLAN SITE GATE ALTERNATE #2 GENERATOR PAD PLANS AND DETAILS TYPICAL CONCRETE DETAILS
S324 CONCRETE DETAILS S325 CONCRETE DETAILS	L3.01 L4.00 STRUCTURA S100 S101 S102 S104 S106 S107 S108 S109 S201 S202 S211 S212 S221 S222 S231 S232 S233 S234 S240 S301 S302 S303 S304 S305 S306 S307 S308 S320 S321	SPECIFICATIONS AL STRUCTURAL NOTES STRUCTURAL NOTES SPECIAL INSPECTIONS OVERALL DIMENSION PLAN HIGH ROOF DECK ATTACHMENT PLAN LOW ROOF WIND UPLIFT PLAN LOW ROOF DECK ATTACHMENT PLAN WIND UPLIFT AND DECK ATTACHMENT PLAN LOWER LEVEL EAST - FOUNDATION PLAN LOWER LEVEL EAST - FOUNDATION PLAN LEVEL 1 EAST - FRAMING PLAN LEVEL 1 WEST - FRAMING PLAN 2ND TIER LEVEL EAST - FRAMING PLAN ROOF EAST - FRAMING PLAN ROOF WEST - FRAMING PLAN ALTERNATE #1 FRAMING PLAN SITE GATE ALTERNATE #2 GENERATOR PAD PLANS AND DETAILS TYPICAL CONCRETE DETAILS
S325 CONCRETE DETAILS	L3.01 L4.00 STRUCTURA S100 S101 S102 S104 S106 S107 S108 S109 S201 S202 S211 S212 S221 S222 S231 S232 S233 S234 S240 S301 S302 S303 S304 S305 S306 S307 S308 S320 S321 S322	SPECIFICATIONS AL STRUCTURAL NOTES STRUCTURAL NOTES SPECIAL INSPECTIONS OVERALL DIMENSION PLAN HIGH ROOF DECK ATTACHMENT PLAN LOW ROOF WIND UPLIFT PLAN LOW ROOF DECK ATTACHMENT PLAN WIND UPLIFT AND DECK ATTACHMENT PLANS - AL LOWER LEVEL EAST - FOUNDATION PLAN LOWER LEVEL EAST - FOUNDATION PLAN LEVEL 1 EAST - FRAMING PLAN 2ND TIER LEVEL EAST - FRAMING PLAN 2ND TIER LEVEL WEST - FRAMING PLAN ROOF EAST - FRAMING PLAN ROOF WEST - FRAMING PLAN ALTERNATE #1 FRAMING PLAN SITE GATE ALTERNATE #2 GENERATOR PAD PLANS AND DETAILS TYPICAL CONCRETE DETAILS
DODG LOOMODETE DETAILO	L3.01 L4.00 STRUCTURA S100 S101 S102 S104 S106 S107 S108 S109 S201 S202 S211 S212 S221 S222 S231 S232 S233 S234 S240 S301 S302 S303 S304 S305 S306 S307 S308 S320 S321	SPECIFICATIONS AL STRUCTURAL NOTES STRUCTURAL NOTES SPECIAL INSPECTIONS OVERALL DIMENSION PLAN HIGH ROOF DECK ATTACHMENT PLAN LOW ROOF WIND UPLIFT PLAN LOW ROOF DECK ATTACHMENT PLAN WIND UPLIFT AND DECK ATTACHMENT PLANS - AL LOWER LEVEL EAST - FOUNDATION PLAN LOWER LEVEL WEST - FOUNDATION PLAN LEVEL 1 WEST - FRAMING PLAN 2ND TIER LEVEL EAST - FRAMING PLAN 2ND TIER LEVEL WEST - FRAMING PLAN ROOF EAST - FRAMING PLAN ROOF WEST - FRAMING PLAN ALTERNATE #1 FRAMING PLAN ALTERNATE #1 FRAMING PLANS SITE GATE ALTERNATE #2 GENERATOR PAD PLANS AND DETAILS TYPICAL CONCRETE DETAILS
	L3.01 L4.00 STRUCTUR/ S100 S101 S102 S104 S106 S107 S108 S109 S201 S202 S211 S212 S221 S222 S231 S232 S233 S234 S240 S301 S302 S303 S304 S305 S306 S307 S308 S320 S321 S322 S323 S324 S322 S323 S324 S325	SPECIFICATIONS AL STRUCTURAL NOTES STRUCTURAL NOTES SPECIAL INSPECTIONS OVERALL DIMENSION PLAN HIGH ROOF DECK ATTACHMENT PLAN LOW ROOF WIND UPLIFT PLAN LOW ROOF DECK ATTACHMENT PLAN WIND UPLIFT AND DECK ATTACHMENT PLANS - AL LOWER LEVEL EAST - FOUNDATION PLAN LOWER LEVEL WEST - FOUNDATION PLAN LEVEL 1 EAST - FRAMING PLAN 2ND TIER LEVEL EAST - FRAMING PLAN 2ND TIER LEVEL WEST - FRAMING PLAN ROOF EAST - FRAMING PLAN ROOF WEST - FRAMING PLAN ALTERNATE #1 FRAMING PLAN ALTERNATE #1 FRAMING PLAN SITE GATE ALTERNATE #2 GENERATOR PAD PLANS AND DETAILS TYPICAL CONCRETE DETAILS CONCRETE DETAILS
	L3.01 L4.00 STRUCTURA S100 S101 S102 S104 S106 S107 S108 S201 S202 S211 S212 S221 S222 S231 S232 S233 S234 S240 S301 S302 S303 S304 S305 S306 S307 S308 S320 S321 S322 S323 S324 S325 S326	SPECIFICATIONS AL STRUCTURAL NOTES STRUCTURAL NOTES SPECIAL INSPECTIONS OVERALL DIMENSION PLAN HIGH ROOF DECK ATTACHMENT PLAN LOW ROOF WIND UPLIFT PLAN LOW ROOF DECK ATTACHMENT PLAN WIND UPLIFT AND DECK ATTACHMENT PLAN LOWER LEVEL EAST - FOUNDATION PLAN LOWER LEVEL WEST- FOUNDATION PLAN LEVEL 1 EAST - FRAMING PLAN LEVEL 1 WEST - FRAMING PLAN 2ND TIER LEVEL EAST - FRAMING PLAN 2ND TIER LEVEL WEST - FRAMING PLAN ROOF EAST - FRAMING PLAN ROOF WEST - FRAMING PLAN SITE GATE ALTERNATE #2 GENERATOR PAD PLANS AND DETAILS TYPICAL CONCRETE DETAILS
YADO ITADIOAL KAACOMINA DETALLO	3.01 4.00 STRUCTUR/ 5100 5101 5102 5104 5106 5107 5108 5109 5201 5202 5211 5212 5221 5222 5231 5232 5233 5234 5240 5301 5302 5303 5304 5305 5306 5307 5308 5320 5321 5322 5323 5324 5325 5323 5324 5325	SPECIFICATIONS AL STRUCTURAL NOTES STRUCTURAL NOTES SPECIAL INSPECTIONS OVERALL DIMENSION PLAN HIGH ROOF DECK ATTACHMENT PLAN LOW ROOF WIND UPLIFT PLAN LOW ROOF DECK ATTACHMENT PLAN WIND UPLIFT AND DECK ATTACHMENT PLANS - AI LOWER LEVEL EAST - FOUNDATION PLAN LOWER LEVEL WEST - FOUNDATION PLAN LEVEL 1 EAST - FRAMING PLAN 2ND TIER LEVEL EAST - FRAMING PLAN 2ND TIER LEVEL WEST - FRAMING PLAN ROOF EAST - FRAMING PLAN ROOF WEST - FRAMING PLAN ALTERNATE #1 FRAMING PLAN ALTERNATE #1 FRAMING PLAN SITE GATE ALTERNATE #2 GENERATOR PAD PLANS AND DETAILS TYPICAL CONCRETE DETAILS CONCRETE DETAILS

MASONRY ELEVATIONS

MASONRY ELEVATIONS

TYPICAL STEEL DETAILS

TYPICAL STEEL DETAILS

S503 STEEL DETAILS

S504 STEEL DETAILS		
S505 STEEL DETAILS	•	•
S506 STEEL DETAILS		
S601 CONCRETE COLUMN SCHEDULE	•	
AREA MAP		
ANEA WAF		
DENTON FRISCO ALLEN ALLEN CARROLLTON		
SOUTHLAKE 635 GARLAND ROCKW	ALL	
ARLINGTON ADDRESS: ADDRESS:		
4300 COMMUNITY AVE, MCKINNEY, TX 75071	0	

VICINITY MAP	ס			
	COMMUNITY AIRE	SITE	75	195
	Wood		BLOOMDALE RD	
			WILMETH RD	
ADDRESS: 4300 COMMUNITY AVE, MCKINNEY, TX 75071				

DETENTION FLOOR PLAN - CONNECTOR

SHEET NO.	DRAWING TITLE	07/13/2021 FOR BID	08/06/2021 ADDENDUM	08/18/2021 ADDENDUM	08/20/2021 ADDENDUM	
S602 S603	CONCRETE BEAM SCHEDULE TYPICAL POST TENSIONED CONCRETE DETAILS	•		•		
ARCHITECT						
A000	TEXAS ACCESSIBILITY STANDARDS (TAS)	•				
A001 A020	3D BUILDING VIEWS LOWER LEVEL - CODE PLAN	•		•		
A021	LEVEL 1 - CODE PLAN	•		•		
A022 A101	TIER LEVEL - CODE PLAN SITE PLAN	•	•	•		
A102	ENLARGED SITE PLANS & SITE DETAILS	•			•	
A103 A111	TEMPORARY SITE FENCING DEMOLITION PLANS & DETAILS	•	•			
A201	SLAB EDGE PLAN - LOWER LEVEL	•		•		
A202 A203	SLAB EDGE PLAN - LEVEL 1 SLAB EDGE PLAN - TIER LEVEL	•				
A210	LOWER LEVEL - OVERALL PLAN	•				
A211 A212	LEVEL 1 - OVERALL PLAN TIER LEVEL - OVERALL PLAN	•				
A220	LOWER LEVEL EAST - FLOOR PLAN - WALL TAGS, DIMENSIONS	•				
A221 A222	LOWER LEVEL EAST - FLOOR PLAN - EQUIPMENT, INTERIOR ELEVATIONS LOWER LEVEL WEST - FLOOR PLAN - WALL TAGS, DIMENSIONS	•		•		
A223	LOWER LEVEL WEST - FLOOR PLAN - EQUIPMENT, INTERIOR ELEVATIONS	•		•		
A224 A225	LEVEL 1 EAST - FLOOR PLAN - WALL TAGS, DIMENSIONS LEVEL 1 EAST - FLOOR PLAN - EQUIPMENT, INTERIOR ELEVATIONS	•				
A225 A226	LEVEL 1 WEST - FLOOR PLAN - EQUIPMENT, INTERIOR ELEVATIONS LEVEL 1 WEST - FLOOR PLAN - WALL TAGS, DIMENSIONS	•				
A227	LEVEL 1 WEST - FLOOR PLAN - EQUIPMENT, INTERIOR ELEVATIONS	•				
A228 A229	TIER LEVEL EAST - FLOOR PLAN - WALL TAGS, DIMENSIONS TIER LEVEL EAST - FLOOR PLAN - EQUIPMENT, INTERIOR ELEVATIONS	•			•	
A230	TIER LEVEL WEST - FLOOR PLAN - WALL TAGS, DIMENSIONS	•				
A231 A240	TIER LEVEL WEST - FLOOR PLAN - EQUIPMENT, INTERIOR ELEVATIONS ALTERNATE #1 - FLOOR PLANS & ROOF PLAN	•			•	
A270	ENLARGED FLOOR PLANS	•				
A271 A272	ENLARGED FLOOR PLANS ENLARGED FLOOR PLANS	•				
A273	ENLARGED FLOOR PLANS	•				
A281 A282	STAIR PLANS/ SECTIONS STAIR PLANS/ SECTIONS	•		•		
A283	STAIR PLANS/ SECTIONS	•				
A284 A285	STAIR PLANS/ SECTIONS STAIR & ELEVATOR PLANS/ SECTIONS	•				
A286	STAIR DETAILS	•				
A287 A288	DETENTION STAIR PLANS, SECTIONS, DETAILS MECHANICAL STAIR PLANS, SECTIONS, DETAILS	•			•	
A290	ROOF PLAN	•	•	•	•	
A291 A292	ROOF DETAILS ROOF DETAILS	•				
A301	LOWER LEVEL EAST - REFLECTED CEILING PLAN	•				
A302 A303	LOWER LEVEL WEST - REFLECTED CEILING PLAN LEVEL 1 EAST - REFLECTED CEILING PLAN	•				
A304	LEVEL 1 WEST - REFLECTED CEILING PLAN	•				
A305 A306	TIER LEVEL EAST - REFLECTED CEILING PLAN TIER LEVEL WEST - REFLECTED CEILING PLAN	•				
A311	CEILING DETAILS	•				
A401 A402	BUILDING ELEVATIONS BUILDING ELEVATIONS	•			•	
A403	BUILDING ELEVATIONS	•				
A404 A411	BUILDING ELEVATIONS PRECAST CONCRETE PANEL ELEVATIONS & DETAILS	•		•		
A501	BUILDING SECTIONS	•				
A502 A511	BUILDING SECTIONS WALL SECTIONS	•				
A512	WALL SECTIONS	•				
A513 A514	WALL SECTIONS SECTION DETAILS	•				
A515	SECTION DETAILS	•				
A516 A701	SECTION & PLAN DETAILS PARTITION TYPES	•				
A702	DOOR SCHEDULE, DOOR TYPES, & FRAME ELEVATIONS	•		•		
A703 A704	DOOR DETAILS DOOR DETAILS	•				
A800	FINISH SCHEDULE, NOTES & LEGEND	•		•	•	
A811 A812	LOWER LEVEL EAST - FINISH PLAN LOWER LEVEL WEST - FINISH PLAN	•				
A813	LEVEL 1 EAST - FINISH PLAN	•				
A814 A815	LEVEL 1 WEST - FINISH PLAN TIER LEVEL EAST - FINISH PLAN	•				
A816	TIER LEVEL WEST - FINISH PLAN	•				
A817 A821	ALTERNATE #1 - FINISH PLAN FINISH DETAILS & EQUIPMENT SCHEDULE	•				
A901	INTERIOR ELEVATIONS	•				
A902 A903	INTERIOR ELEVATIONS INTERIOR ELEVATIONS	•				
A921	MILLWORK SECTIONS	•				
A922 DETENTION	MILLWORK SECTIONS	•				
D010	SECURE PERIMETER PLAN & DETENTION EQUIPMENT SCHEDULE	•			•	
D016 D017	3D VIEWS - TCJS 3D VIEWS - TCJS	•				
D020	DETENTION ANCHORAGE DETAILS & MOUNTING HEIGHTS	•			•	
D211 D212	DETENTION FLOOR PLAN - LOWER LEVEL EAST DETENTION FLOOR PLAN - LOWER LEVEL WEST	•				
D213	DETENTION FLOOR PLAN - LEVEL 1 EAST	•		•		
D214	DETENTION FLOOR PLAN - LEVEL 1 WEST	•		1		

LIST OF DRAWINGS

		FOR BID	ADDENDUM 1	ADDENDUM 2	ADDENDUM 3	08/26/2021 ADDENDUM 4
		07/13/2021	08/06/2021	08/18/2021	08/20/2021	/26/2021
SHEET NO.	DRAWING TITLE	//0	/80	08/	08/	08/
D217	DETENTION FLOOR PLAN - TIER LEVEL WEST	•				
D221	ENLARGED DETENTION PLANS	•				
D222	ENLARGED DETENTION PLANS	•				
D702 D703	DETENTION DOOR SCHEDULE & DHM FRAME ELEVATIONS DETENTION DOOR TYPES	•		•	•	
D703 D704	DETENTION FRAME TYPES - F1000 SERIES					
D705	DETENTION FRAME TYPES - F3000 SERIES	•				
D706	DETENTION FRAME TYPES - F8000 SERIES	•				
D711	DHM DETAILS	•				
D712	DHM DETAILS	•				
D713	DHM DETAILS	•				
D721 D722	DETENTION ACCESSORY DETAILS DETENTION ACCESSORY DETAILS	•				
DIZZ	DETENTION ACCESSORY DETAILS					
PLUMBING						
MP000	LEGEND AND GENERAL NOTES	•				
P001	SCHEDULES - PLUMBING	•				
P002	SCHEDULES - PLUMBING	•				
P003	SCHEDULES - PLUMBING	•		•		
P110 P111	LOWER LEVEL OVERALL - PLUMBING FIRST LEVEL OVERALL - PLUMBING					
P112	TIER LEVEL OVERALL - PLUMBING					
P113	ROOF PLAN OVERALL - PLUMBING	•				
P201	LOWER LEVEL EAST FLOOR PLAN - UNDERFLOOR	•		•		
P202	LOWER LEVEL WEST FLOOR PLAN - UNDERFLOOR	•		•		
P211	LOWER LEVEL EAST FLOOR PLAN - SANITARY/VENT	•		•		
P212	LOWER LEVEL WEST FLOOR PLAN - SANITARY/VENT	•		•		
P221 P222	LEVEL 1 EAST FLOOR PLAN - SANITARY/VENT	•				
P222 P231	LEVEL 1 WEST FLOOR PLAN - SANITARY/VENT TIER LEVEL EAST FLOOR PLAN - SANITARY/VENT	•				
P232	TIER LEVEL WEST FLOOR PLAN - SANITARY/VENT	•				
P301	LOWER LEVEL EAST FLOOR PLAN - PRESSURE PIPE	•		•		
P302	LOWER LEVEL WEST FLOOR PLAN - PRESSURE PIPE	•		•		
P311	LEVEL 1 EAST FLOOR PLAN - PRESSURE PIPE	•				
P312	LEVEL 1 WEST FLOOR PLAN - PRESSURE PIPE	•				
P321	TIER LEVEL EAST FLOOR PLAN - PRESSURE PIPE	•				
P322 P401	TIER LEVEL WEST FLOOR PLAN - PRESSURE PIPE DETAILS - PLUMBING	•				
P402	DETAILS - PLUMBING	•				
P501	PLUMBING RISER	•				
P502	PLUMBING RISER	•				
P503	PLUMBING RISER	•				
P504	PLUMBING RISER	•				
P505	PLUMBING RISER	•				
P506	PLUMBING RISER	•				
P601 P602	SECTIONS - ENLARGED PLANS - SANITARY - VENT - PRESSURE PIPE SECTIONS - ENLARGED PLANS - SANITARY - VENT - PRESSURE PIPE	•				
P603	SECTIONS - ENLANGED FLANS - SANITARY - VENT - PRESSURE PIPE	-				
P701	ALTERNATE #1 - FLOOR PLAN - PLUMBING - FIRE PROTECTION	•				
		•			•	•
FIRE PROTE						
FP201	LOWER LEVEL EAST FLOOR PLAN - FIRE PROTECTION	•		•		
FP202	LOWER LEVEL WEST FLOOR PLAN - FIRE PROTECTION	•		•		
FP203 FP204	LEVEL 1 EAST FLOOR PLAN - FIRE PROTECTION LEVEL 1 WEST FLOOR PLAN - FIRE PROTECTION	•		•		
FP205	TIER LEVEL EAST FLOOR PLAN - FIRE PROTECTION			•		
FP206	TIER LEVEL WEST FLOOR PLAN - FIRE PROTECTION	•		•		
FP207	ROOF PLAN EAST - FIRE PROTECTION	•		•		
						_
MECHANICA						
M001 M002	MECHANCIAL SCHEDULES MECHANICAL SCHEDULES	•				
M003	MECHANICAL SCHEDULES MECHANICAL SCHEDULES			•		
M004	MECHANICAL SCHEDULES	•		•		
M005	MECHANICAL SCHEDULES	•				
M006	MECHANICAL SCHEDULES			•		
M007	MECHANICAL SCHEDULES			•		
M008	MECHANICAL SCHEDULES			•		
M009 M010	MECHANICAL SCHEDULES MECHANICAL SCHEDULES			•		
M010 M011	MECHANICAL SCHEDULES MECHANICAL SCHEDULES			•		
M012	MECHANICAL SCHEDULES			•		
M100	SITE PLAN - MECHANICAL	•				•
M110	LOWER LEVEL FLOOR PLAN - OVERALL - MECHANICAL	•				
M111	LEVEL 1 FLOOR PLAN - OVERALL - MECHANICAL	•				
M112	TIER LEVEL FLOOR PLAN - OVERALL - MECHANICAL	•				
M113	ROOF PLAN OVERALL - MECHANICAL	•		_		
M120 M121	LOWER LEVEL OVERALL PLAN - SMOKE ZONES LEVEL 1 OVERALL PLAN - SMOKE ZONES	•		•		
M121 M122	TIER LEVEL OVERALL PLAN - SMOKE ZONES TIER LEVEL OVERALL PLAN - SMOKE ZONES	•				
M201	LOWER LEVEL EAST FLOOR PLAN - DUCTWORK			•		
M202	LOWER LEVEL DIGIT EGGIT DIN DOGTWORK	•		•		
M211	LEVEL 1 EAST FLOOR PLAN - DUCTWORK	•				
M212	LEVEL 1 WEST FLOOR PLAN - DUCTWORK	•		•		
M221	TIER LEVEL EAST FLOOR PLAN - DUCTWORK	•		•		
M222	TIER LEVEL WEST FLOOR PLAN - DUCTWORK	•		•		
M231	ROOF PLAN EAST - DUCTWORK	•				
M232 M301	ROOF PLAN WEST - DUCTWORK LOWER LEVEL EAST FLOOR PLAN - HVAC PIPING	•				
M302	LOWER LEVEL EAST FLOOR PLAN - HVAC PIPING	•		•		
M311	LEVEL 1 EAST FLOOR PLAN - HVAC PIPING	•				
M312	LEVEL 1 WEST FLOOR PLAN - HVAC PIPING	•				
M321	TIER LEVEL EAST FLOOR PLAN - HVAC PIPING	_				
/1221	HIEK LEVEL EAST FLOOR PLAN - HVAC PIPING	•				

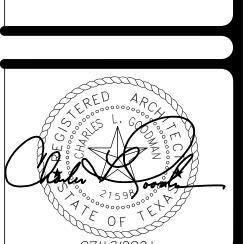
DETAILS - MECHANICAL

FLOW DIAGRAMS - MECHANCIAL

LIST OF DRAWINGS

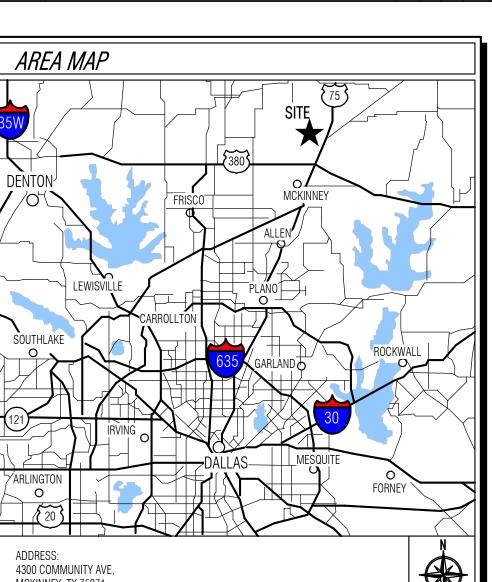
	LIST OF DRAWINGS					
			Z	M 2	M 3	4 M
		BID	08/06/2021 ADDENDUM	08/18/2021 ADDENDUM	08/20/2021 ADDENDUM	08/26/2021 ADDENDUM
		FOR	ADE	ADE	ADE	ADE
		2021	2021	2021	2021	2021
SHEET NO.	DRAWING TITLE	07/13/2021 FOR BID	2/90/8	3/18/2	8/20/2	3/96/8
	DIAWING ITTEL	0		Ŏ		
M502 M503	FLOW DIAGRAMS - MECHANCIAL CONTROL POINTS - MECHANICAL	•				
M504	CONTROL POINTS - MECHANICAL CONTROL POINTS - MECHANICAL	•		•		
M505	CONTROL POINTS - MECHANICAL	•		•		
M506 M507	CONTROL POINTS - MECHANICAL CONTROL POINTS - MECHANICAL	•		•		
M508	WIRING AND PIPING DIAGRAMS - MECHANICAL	•				
M509	WIRING AND PIPING DIAGRAMS - MECHANICAL	•				
M601 M602	SECTIONS - LARGE SCALE PLANS SECTIONS - LARGE SCALE PLANS	•				
M603	SECTIONS - LARGE SCALE PLANS	•				
M604	SECTIONS - LARGE SCALE PLANS	•				
M605 M701	SECTIONS - LARGE SCALE PLANS LOWER LEVEL - AXONOMETRIC DUCT	•				
M702	LEVEL 1 - AXONOMETRIC DUCT	•				
M703	TIER LEVEL - AXONOMETRIC DUCT	•				
M801	ALTERNATE #1 - FLOOR PLAN - MECHANICAL	•				_
ELECTRICAL						
E000 E010	LEGEND AND GENERAL NOTES - ELECTRICAL ONE LINE AND CALCULATIONS	•				
E010 E011	LIGHT FIXTURE SCHEDULE	•				
E012	PANELBOARD SCHEDULES	•				_
E013	PANELBOARD SCHEDULES	•		•		
E014 E015	PANELBOARD- POWER TO MECHANICAL SCHEDULES RELAY - POWER TO MECHANICAL SCHEDULES	•		•		
E100	SITE PLAN - ELECTRICAL	•				
E101	SITE PLAN - ELECTRICAL OVERALL	•				_
E102	SITE PLAN - PHOTOMETRICS	•	$oxed{-}$			
E110 E111	LOWER LEVEL FLOOR PLAN - OVERALL LEVEL 1 FLOOR PLAN - OVERALL	•				
E112	TIER LEVEL FLOOR PLAN - OVERALL	•				_
E113	ROOF LEVEL - OVERALL	•				_
E201	LOWER LEVEL EAST FLOOR PLAN - LIGHTING	•		•		
E202 E211	LOWER LEVEL WEST FLOOR PLAN - LIGHTING LEVEL 1 EAST FLOOR PLAN - LIGHTING	•		•		
E212	LEVEL 1 WEST FLOOR PLAN - LIGHTING	•		•		_
E221	TIER LEVEL EAST FLOOR PLAN - LIGHTING	•		•		
E222 E301	TIER LEVEL WEST FLOOR PLAN - LIGHTING LOWER LEVEL EAST FLOOR PLAN - POWER	•		•		
E302	LOWER LEVEL EAST FLOOR PLAN - POWER	•		•		
E311	LEVEL 1 EAST FLOOR PLAN - POWER	•		•		
E312 E321	LEVEL 1 WEST FLOOR PLAN - POWER	•				
E321	TIER LEVEL EAST FLOOR PLAN - POWER TIER LEVEL WEST FLOOR PLAN - POWER	•				
E401	LOWER LEVEL EAST FLOOR PLAN - POWER TO MECHANICAL	•		•		
E402	LOWER LEVEL WEST FLOOR PLAN - POWER TO MECHANICAL	•		•		
E411 E412	LEVEL 1 EAST FLOOR PLAN - POWER TO MECHANICAL LEVEL 1 WEST FLOOR PLAN - POWER TO MECHANICAL	•				
E421	TIER LEVEL EAST FLOOR PLAN - POWER TO MECHANICAL	•				
E422	TIER LEVEL WEST FLOOR PLAN - POWER TO MECHANICAL	•				
E431 E432	ROOF PLAN EAST - POWER TO MECHANICAL ROOF PLAN WEST - POWER TO MECHANICAL	•				
E501	DETAILS - ELECTRICAL	•				
E502	DETAILS - ELECTRICAL	•				
E601	SECTIONS - ENLARGED PLANS - POWER	•				
E602 E701	SECTIONS - ENLARGED PLANS - POWER FLOOR PLAN - ALTERNATE #1 - ELECTRICAL	•				
LIOI	I LOUTT EAIN - ALTERNATE # 1 - LECOTHOAL					
TECHNOLO		ı				
IT000 IT210	IT LEGEND AND NOTES LOWER LEVEL - OVERALL PLAN - IT	•	_			_
IT210	LEVEL 1 - OVERALL PLAN - IT	•		\vdash		
IT212	TIER LEVEL - OVERALL PLAN - IT	•				
IT221 IT224	LOWER LEVEL EAST - FLOOR PLAN - IT LOWER LEVEL WEST - FLOOR PLAN - IT	•				_
IT224 IT226	LOWER LEVEL WEST - FLOOR PLAN - IT LEVEL 1 EAST - FLOOR PLAN - IT	•	 	\vdash		
IT228	LEVEL 1 WEST FLOOR PLAN - IT	•				— —
IT230	TIER LEVEL EAST - FLOOR PLAN - IT	•				_
IT232 IT601	TIER LEVEL WEST - FLOOR PLAN - IT TELECOM ROOM DETAILS - IT	•				
IT602	TELECOM ROOM DETAILS - IT	•				_
IT603	STRUCTURED CABLING SYSTEMS AND SPECIALTY EQUIPMENT SCHEDU	JLE •				_
SECURITY						
ES001	ELECTRONIC SECURITY SYMBOLS LEGEND	•				
ES100	SITE PLAN 3D	•				
ES101	SITE PLAN	•	$oxed{-}$			
ES102 ES220	ENLARGED SITE PLANS LOWER LEVEL EAST - FLOOR PLAN	•				
ES223	LOWER LEVEL EAST - FLOOR PLAN LOWER LEVEL WEST - FLOOR PLAN	•		•		
ES225	LEVEL 1 EAST - FLOOR PLAN	•				
ES227	LEVEL 1 WEST - FLOOR PLAN	•	$oxed{oxed}$			•
ES229 ES231	TIER LEVEL EAST - FLOOR PLAN TIER LEVEL WEST - FLOOR PLAN	•				
ES301	ENLARGED FLOOR PLANS	•		•		_
ES302	ENLARGED FLOOR PLANS	•				_
ES303	ENLARGED FLOOR PLANS	•	igsqcup			_
ES304 ES305	ENLARGED FLOOR PLANS ENLARGED FLOOR PLANS	•				
ES305 ES401	DETAILS	•				
ES402	DETAILS	•				_
ES403	DETAILS	•	$oxed{oxed}$	•		_
ES501 ES502	ELECTRONIC SECURITY SYSTEM DIAGRAM ACCESS CONTROL SYSTEM DIAGRAM	•				
ES503	INTERCOM SYSTEM DIAGGRAM	•				•
ES504	VIDEO MANAGEMENT AND RECORDING SYSTEM DIAGRAM	•				•

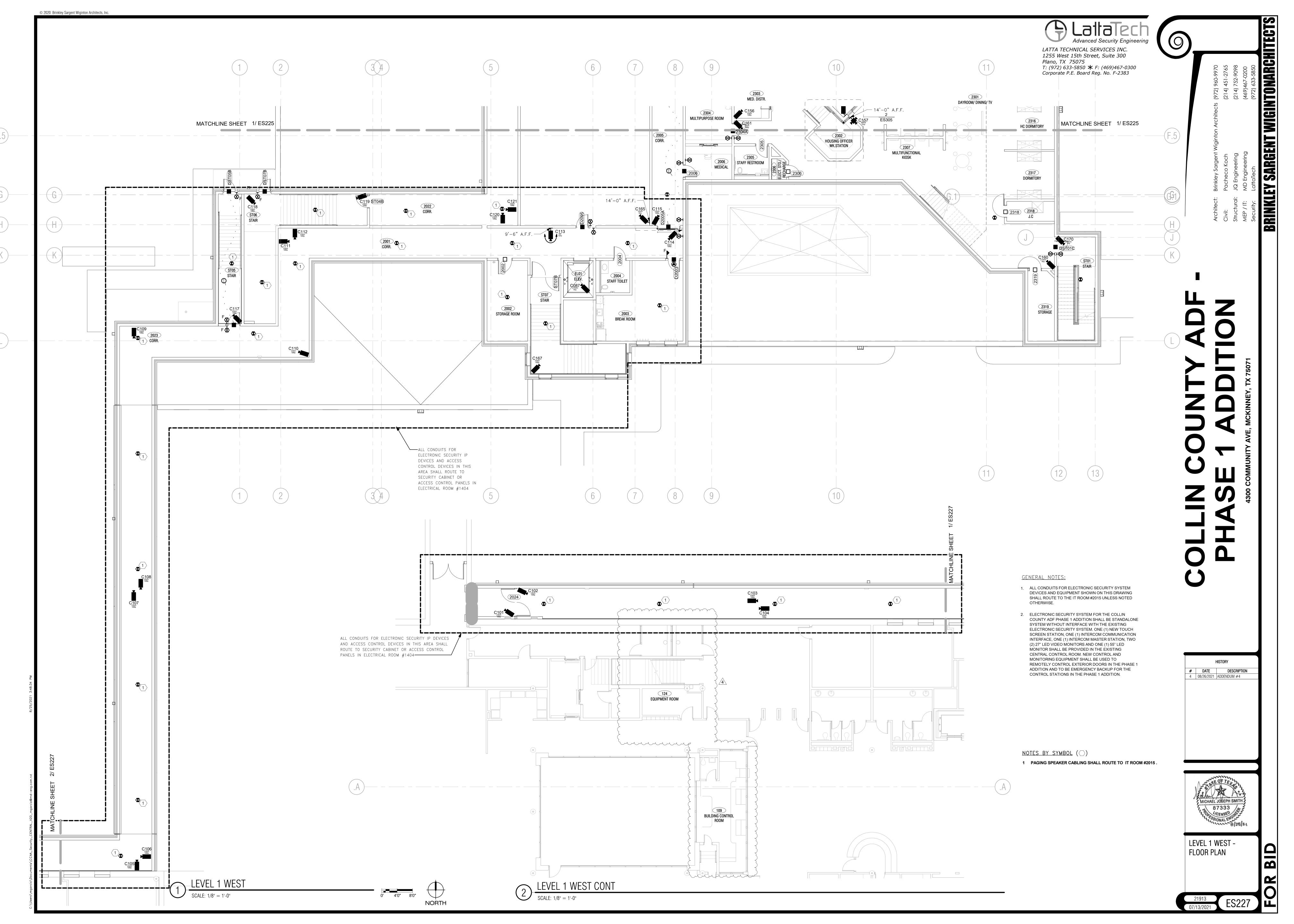
DATE DESCRIPTION



COVER SHEET

• • TYPICAL MASONRY DETAILS MASONRY ELEVATIONS

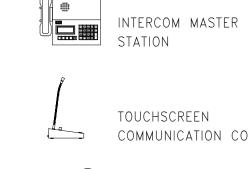




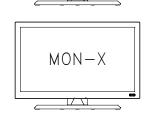
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Advanced Security Engineering

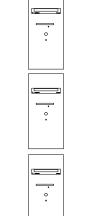
EQUIPMENT LEGEND:

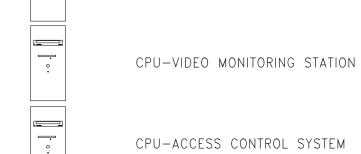


SYSTEM KEYBOARD



VIDEO MONITOR WORKSTATION





LEGEND:

FIBER OPTIC CABLE COAX CABLE

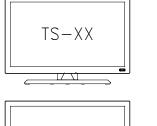
- 1. FIBER OPTIC PATCH PANELS SHALL BE USED TO TERMINATE AND DISTRIBUTE ALL FIBER OPTIC CABLES IN
- 2. PATCH PANELS SHALL BE USED TO TERMINATE AND DISTRIBUTE ALL DATA CABLES (CAT6) IN EQUIPMENT
- SECURITY HEAD-END EQUIPMENT SHALL BE DETERMINED BY NUMBER OF ELECTRONIC SECURITY SYSTEM FIELD DEVICES TERMINATED AT EACH LOCATION.
- ROOMS WITH ELECTRONIC SECURITY SYSTEM EQUIPMENT SHALL BE PROVIDED BY DIV28 CONTRACTOR.
- SHALL BE CONNECTED TO NETWORK SWITCHES VIA CAT6 CABLE. IF THE DISTANCE BETWEEN ANY ELECTRONIC SECURITY EQUIPMENT AND A NETWORK SWITCH EXCEEDS 300' USE FIBER OPTIC CABLE TO TRANSFER VIDEO DATA. PROVIDE CAT6 TO FIBER MEDIA CONVERTERS. PROVIDE POWER FOR MEDIA CONVERTERS.
- 6. NEW TOUCH SCREEN STATION SHALL BE INSTALLED IN THE EXISTING CENTRAL CONTROL ROOM. THE EXACT MOUNTING LOCATION FOR THE NEW TOUCH SCREEN STATION SHALL BE COORDINATED WITH THE OWNER. PROVIDE NEW 2KVA UPS TO POWER NEW ELECTRONIC SECURITY TOUCH SCREEN STATION (CPU AND MONITOR). REUSE EXISTING 1-20A, 120VAC TO POWER NEW UPS.

NOTES:

- $\langle 1 \rangle$ 120 VAC, 20A UPS.
- TOUCH SCREEN CONTROL AND MANAGEMENT SYSTEM.
- KEYBOARD, MOUSE AND MONITOR.
- $\langle \overline{5} \rangle$ 1-1" CONDUIT FOR CAT6 CABLE.
- $\langle 6 \rangle$ 1-2" CONDUIT FOR FIBER OPTIC CABLE (12 STRANDS OF SINGLE MODE FIBER).
- $\langle \overline{7} \rangle$ lighting control processing panel by Div. 26 for LIGHTING CONTROL SYSTEM INTERFACE WITH ELECTRONIC CONTROL SYSTEM. REFER TO ELECTRICAL PLANS FOR EXACT LOCATION AND QUANTITIES.

COMMUNICATION CONSOLE

VIDEO SURVEILLANCE



CONTROLLED & DOOR STATUS

FIELD ĎEVICES

DOOR LOCKING/SPECIAL RELAY BOARDS

ELECTRONICALLY

DOORS

(TYPICAL)

PANIC MONITORED

ELECTRONICALLY ELECTRIC

FIELD ĎEVICES

MONITORED

DOORS

(TYPICAL)

FIBER OPTIC CABLE PATCH PANEL

NETWORK SWITCH 10Gbs

DURESS/

PANIC

ALARM

(TYPICAL)

ELECTRICAL

CONTROLLED & DOOR STATUS

INDICATOR

DEVICE

(TYPICAL)

ALARM

(TYPICAL)

DURESS/ CONTROLLED & DOOR STATUS

FIELD ĎEVICES

INDICATOR

DEVICE

FIBER OPTIC CABLE PATCH PANEL

SWITCH 10Gbs

NETWORK SEGMENT MANAGER FOR LIGHTING

CONTROL RELAY PANELS

PROVIDED BY DIV. 26

INDICATOR

DEVICE

(TYPICAL)

ADS PRINTER

KVM SWITCH

BOOKING COORDINATOR (SGT.) #1103

+ - - - - -

+ - - - - - -

TRANSFER COORDINATOR #1321

PRE-BOOKING #1023

MONITORED

DOORS

TO INPUT & OUTPUT MODULES

(TYPICAL) (TYPICAL)

ALARM

IT ROOM #2015

TIER LEVEL

LEVEL 1

LOWER LEVEL

HOUSING OFFICER WORKSTATION

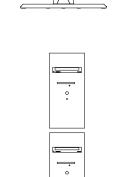
CLUSTER CONTROL STATION

HOUSING OFFICER

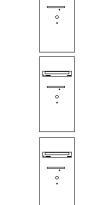
WORKSTATION ROOM #2302

HOUSING OFFICER WORKSTATION

TOUCH SCREEN CONTROL MONITOR



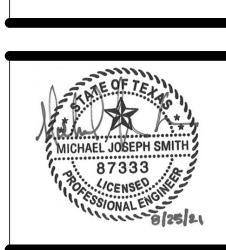
CPU-TOUCHSCREEN STATION



CAMERA POWER SUPPLY ------DATA CABLE/CAT 6 — — — — — — —

GENERAL NOTES:

- EQUIPMENT CABINETS/ENCLOSURES.
- CABINETS/ENCLOSURES.
- 3. EXACT NUMBER OF NETWORK SWITCHES AND ELECTRONIC
- 4. FIBER OPTIC BACKBONE CONNECTING ALL EQUIPMENT
- 5. ALL ELECTRONIC SECURITY WORKSTATIONS AND SERVERS
- $\langle 2 \rangle$ provide data interface with video management and RECORDING SYSTEM AND INTERCOM/PAGING SYSTEM TO ALLOW CONTROL AND MONITORING OF ALL SYSTEMS FROM
- $\overline{3}$ NEW ELECTRONIC SECURITY ADMINISTRATION AND FILE SERVERS, CONNECTED VIA KVM SWITCH TO RACK MOUNTED
- $\langle \overline{4} \rangle$ NEW TOUCH SCREEN CONTROL STATION WITH 27" LED MONITOR, CPU, MOUSE AND KEYBOARD.



HISTORY

DATE DESCRIPTION

4 08/26/2021 ADDENDUM #4

SECURITY SYSTEM DIAGRAM



LEVEL

EXISTING LOWER

EXISTING BUILDING

CONTROL ROOM #109 ____

TS-8

_ __ _ _ _ _ _

EXISTING

EQUIPMENT

FIBER OPTIC

CABLE PATCH PANEL

NETWORK

SWITCH 10Gbs

EXISTING LEVEL 1



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LEGEND: DATA CABLE/CAT 6 FIBER OPTIC CABLE ______

TERMINATED AT EACH LOCATION.

GENERAL NOTES:

- 1. FIBER OPTIC PATCH PANELS SHALL BE USED TO TERMINATE AND DISTRIBUTE ALL FIBER OPTIC CABLES IN EQUIPMENT CABINETS/ENCLOSURES.
- 2. PATCH PANELS SHALL BE USED TO TERMINATE AND DISTRIBUTE ALL DATA CABLES (CAT6) IN EQUIPMENT CABINETS/ENCLOSURES.
- 3. EXACT NUMBER OF NETWORK SWITCHES AND ELECTRONIC SECURITY HEAD-END EQUIPMENT SHALL BE DETERMINED BY NUMBER OF ACCESS CONTROL SYSTEM FIELD DEVICES
- 4. THE ELECTRONIC SECURITY CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE INTERFACE BETWEEN ACCESS CONTROL SYSTEM AND ELECTRONIC SECURITY SYSTEM AND VIDEO MANAGEMENT & RECORDING SYSTEM. THE INTERFACE WILL INCLUDE ALL REQUIRED SOFTWARE (PROGRAMMING) AND HARDWARE REQUIRED TO ALLOW OVERRIDING CAPABILITY OF THE TOUCH SCREEN CONTROL SYSTEM OVER ACCESS CONTROL SYSTEM.
- 5. ALL INFRASTRUCTURE (RACEWAY, BACKBOXES, CABLES, POWER, ETC.) FOR THE ACCESS CONTROL SYSTEM SHALL BE PROVIDED BY THE CONTRACTORS (DIV 26 AND 28)
- 6. ALL NETWORK SWITCHES FOR THE ELECTRONIC SECURITY SYSTEM SHALL BE PROVIDED BY DIV28. ELECTRONIC SECURITY CONTRACTOR SHALL COORDINATE SWITCHES SETUP WITH THE OWNER. ALL IP ADDRESSES AND VLAN CONFIGURATION SHALL BE COORDINATED BETWEEN THE ELECTRONIC SECURITY CONTRACTOR AND THE OWNER DURING THE SUBMITTAL PROCESS.
- 7. FIBER OPTIC BACKBONE CONNECTING ALL EQUIPMENT ROOMS WITH ELECTRONIC SECURITY SYSTEM EQUIPMENT SHALL BE PROVIDED BY DIV27 CONTRACTOR.
- 8. THE ACCESS CONTROL SYSTEM SHALL BE PROVIDED BY THE ELECTRONIC SECURITY CONTRACTOR. THE CONTRACTOR SHALL PROVIDE ALL READERS. POWER SUPPLIES AND CONTROLLERS. CONTROLLERS SHALL INCLUDE ALL REQUIRED INPUTS AND SHARE VALID READ SIGNALS, DPS AND REX SIGNALS BETWEEN THE TWO SYSTEMS FOR THE LIMITED NUMBER OF CARD READERS. CARD READERS INSTALLED ON THE EXTERIOR DOORS, PEDESTRIAN GATES AND VEHICLE GATES SHALL BE CONTROLLED AND MONITORED BY THE NEW TOUCH SCREEN SYSTEM (PLC). ALL OTHER CARD READERS SHALL BE CONTROLLED AND MONITORED BY THE ACCESS CONTROL SYSTEM ONLY (OPEN OPTIONS). THE NEW CONTROLLERS SHALL BE TIED TO THE EXISTING ACCESS CONTROL SYSTEM NETWORK.

NOTES:

 $\langle 1 \rangle$ 120 VAC, 20A UPS POWER.

PROVIDE INTERFACE WITH VIDEO MANAGEMENT AND RECORDING SYSTEM, INTERCOM/PAGING AND TOUCH SCREEN CONTROL AND MANAGEMENT SYSTEM TO ALLOW CONTROL AND MONITORING OF ALL SYSTEMS FROM TOUCH SCREEN CONTROL AND MANAGEMENT SYSTEM. PROVIDE HARD-WIRED SHARING OF SIGNALS BETWEEN THE ACCESS CONTROLLERS AND THE PLC.

 $\langle \overline{3} \rangle$ 1-1" CONDUIT FOR CAT6 CABLE.

4 1-1" CONDUIT. PROVIDE CABLES AS RECOMMENDED BY EQUIPMENT MANUFACTURER.

 $\langle \overline{5} \rangle$ 1-2" conduit for fiber optic cable (12 strands of single MODE FIBER).

(6) PROVIDE ALL REQUIRED INFRASTRUCTURE AND HARDWARE TO CONNECT TO THE EXISTING ACCESS CONTROL NETWORK.

DATE DESCRIPTION 4 08/26/2021 ADDENDUM #4



ACCESS CONTROL SYSTEM DIAGRAM

munimunimunimunimi

LOWER LEVEL

EXISTING EQUIPMENT

FIBER OPTIC ---

CABLE PATCH PANEL

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NETWORK SWITCH 10Gbs

__ _ _ _ _ _ _ _ _ _ _

ROOM #124

EXISTING BUILDING

EXISTING LEVEL 1

EXISTING LOWER

INTERCOM SYSTEM DIAGRAM

SCALE: NOT TO SCALE

LEVEL

CONTROL ROOM #109_

TOUCH

SCREEN

COMM.

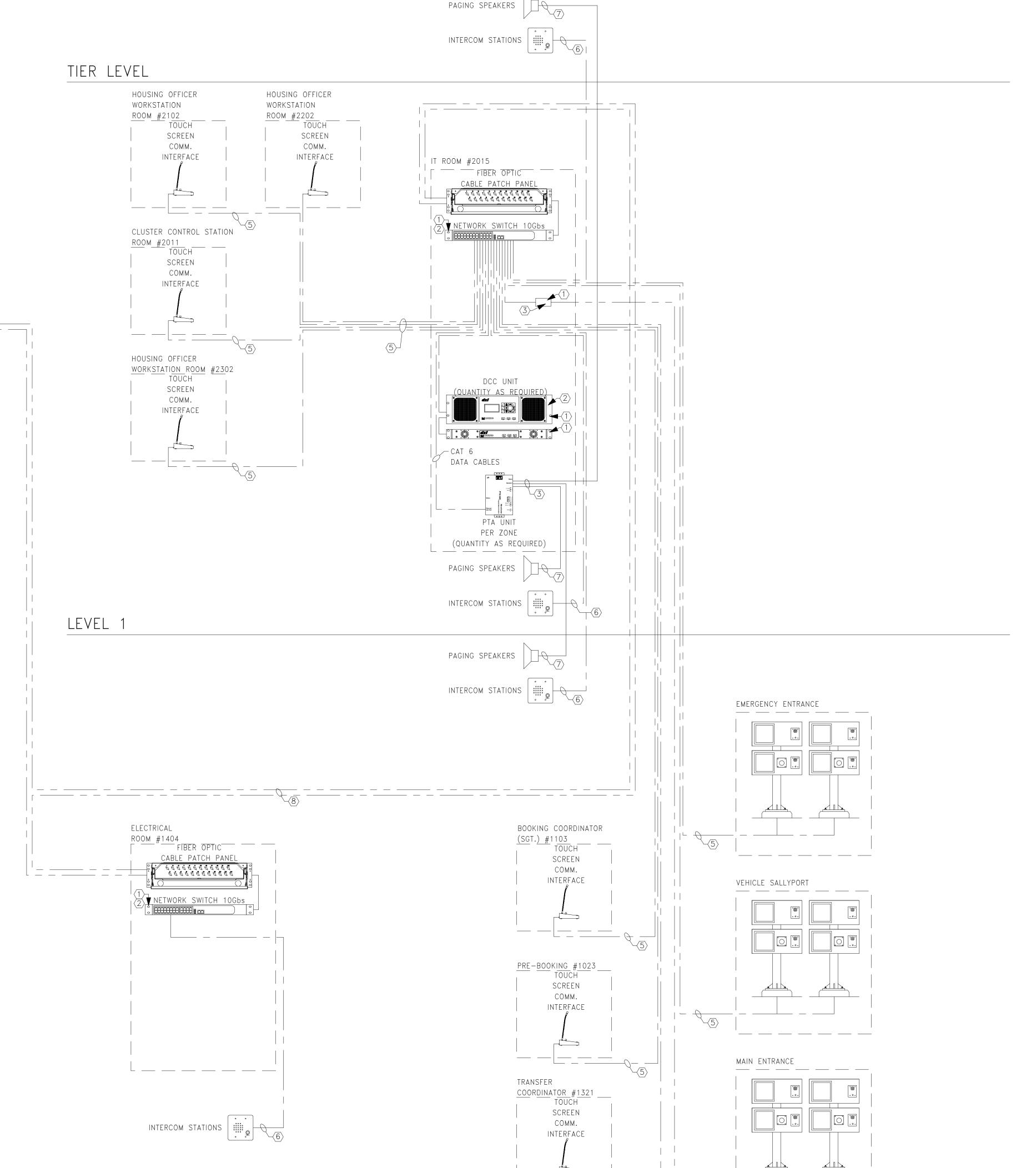
INTERFACE

Corporate P.E. Board Reg. No. F-2383

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DATE DESCRIPTION
4 08/26/2021 ADDENDUM #4

INTERCOM SYSTEM DIAGRAM



LEGEND:

CAMERA POWER SUPPLY ------DATA CABLE/CAT 6 — — — — — — — — — FIBER OPTIC CABLE COAX CABLE

GENERAL NOTES:

- 1. FIBER OPTIC PATCH PANELS SHALL BE USED TO TERMINATE AND DISTRIBUTE ALL FIBER OPTIC CABLES IN EQUIPMENT CABINETS/ENCLOSURES.
- 2. PATCH PANELS SHALL BE USED TO TERMINATE AND DISTRIBUTE ALL DATA CABLES (CAT6) IN EQUIPMENT CABINETS/ENCLOSURES.
- 3. EXACT NUMBER OF NETWORK SWITCHES AND ELECTRONIC SECURITY HEAD-END EQUIPMENT SHALL BE DETERMINED BY NUMBER OF INTERCOM AND PAGING SYSTEM FIELD DEVICES TERMINATED AT EACH LOCATION.
- 5. ALL INTERCOM & PAGING SYSTEM FILED DEVICES AND EQUIPMENT SHALL BE CONNECTED TO NETWORK SWITCHES VIA CAT6 CABLE. IF THE DISTANCE BETWEEN ANY INTERCOM & PAGING SYSTEM FILED DEVICES AND EQUIPMENT AND A NETWORK SWITCH EXCEEDS 300' USE FIBER OPTIC CABLE TO TRANSFER VIDEO DATA. PROVIDE CAT6 TO FIBER MEDIA CONVERTERS. PROVIDE POWER FOR MEDIA CONVERTERS.

NOTES:

- 1 120VAC UPS POWER.
- $\langle 2 \rangle$ provide interface with video management and RECORDING SYSTEM FOR CAMERA CALL-UP FUNCTION. PROVIDE INTERFACE WITH ELECTRONIC SECURITY CONTROL SYSTEM FOR CONTROL AND MONITORING OF ALL INTERCOM AND PAGING FUNCTIONS FROM THE NEW TOUCH SCREEN CONTROL AND MANAGEMENT SYSTEM.
- 3 PROVIDE MEDIA CONVERTER FROM CAT6 TO FIBER OPTIC CABLE TO ALLOW DATA TRANSFER (VOICE).
- 4 1-2" CONDUIT FOR FIBER OPTIC CABLE (2 STRANDS OF MM FIBER).
- $\langle \overline{5} \rangle$ 1-1" CONDUIT FOR CAT6 CABLE.
- 6 1-3/4" CONDUIT FOR CAT6 CABLE.
- $\langle \overline{7} \rangle$ 1-3/4" CONDUIT FOR SINGLE SHIELDED PAIR CABLE.
- $\langle 8 \rangle$ 1-2" CONDUIT FOR FIBER OPTIC CABLE (12 STRANDS OF SINGLE MODE FIBER).

Advanced Security Engineering LATTA TECHNICAL SERVICES INC.

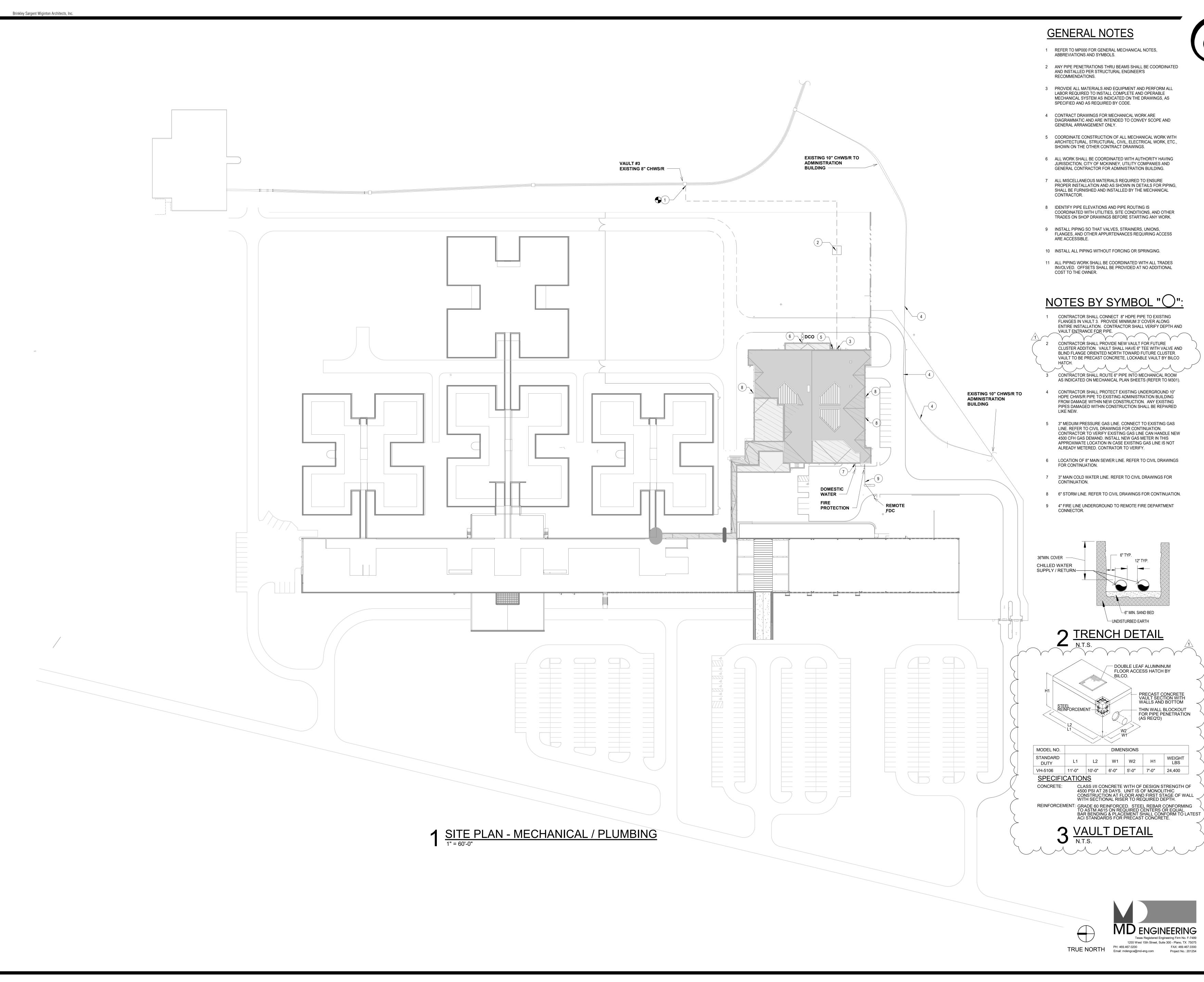
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- 1. ALL CAMERAS, VIDEO WORKSTATIONS AND VIDEO SERVERS SHALL BE CONNECTED TO NETWORK SWITCHES VIA CAT6 CABLE. IF THE DISTANCE BETWEEN ANY VIDEO SYSTEM FILED DEVICE AND/OR EQUIPMENT (E.G. CAMERA, VIDEO WORKSTATION, ETC) AND A NETWORK SWITCH EXCEEDS 300' USE FIBER OPTIC CABLE TO TRANSFER VIDEO DATA. PROVIDE CAT6 TO FIBER MEDIA CONVERTERS. PROVIDE POWER FOR MEDIA CONVERTERS.
- 3. REFER TO CAMERA SCHEDULE FOR THE EXACT CAMERA MOUNTING LOCATIONS
- 4. FIBER OPTIC PATCH PANELS SHALL BE USED TO TERMINATE AND DISTRIBUTE ALL FIBER OPTIC CABLES IN EQUIPMENT CABINETS/ENCLOSURES.
- 5. PATCH PANELS SHALL BE USED TO TERMINATE AND DISTRIBUTE ALL DATA CABLES (CAT6) IN EQUIPMENT CABINETS/ENCLOSURES.
- 6. EXACT NUMBER OF NETWORK SWITCHES AND ELECTRONIC SECURITY HEAD-END EQUIPMENT SHALL BE DETERMINED BY NUMBER OF VIDEO MANAGEMENT SYSTEM FIELD DEVICES TERMINATED AT EACH LOCATION.
- 7. NEW CAMERAS SHALL BE IP BASED, HIGH DEFINITION CAMERAS. ALL NEW CAMERAS SHALL BE MANUFACTURED BY AXIS (TO MATCH THE COUNTY'S STANDARDS). NEW VIDEO MANAGEMENT SOFTWARE SHALL BE MILESTONE XPROTECT (TO MATCH THE COUNTY'S STANDARDS).
- 8. ALL NETWORK SWITCHES FOR THE ELECTRONIC SECURITY SYSTEM SHALL BE PROVIDED BY DIV 28. ELECTRONIC SECURITY CONTRACTOR SHALL COORDINATE SWITCHES SETUP WITH THE OWNER. ALL IP ADDRESSES AND VLAN CONFIGURATION SHALL BE COORDINATED BETWEEN THE ELECTRONIC SECURITY CONTRACTOR AND THE OWNER DURING THE SUBMITTAL PROCESS.
- 9. FIBER OPTIC BACKBONE CONNECTING ALL EQUIPMENT ROOMS WITH ELECTRONIC SECURITY SYSTEM EQUIPMENT SHALL BE PROVIDED BY DIV28 CONTRACTOR. BACKBONE MAY BE RUN IN A STAR CONFIGURATION FOR VIDEO SYSTEMS. COORDINATE WITH OWNER AND OTHER TRADES.
- 6. NEW VIDEO VIEWING STATIONS (VVS) SHALL BE INSTALLED IN THE EXISTING CENTRAL CONTROL ROOM. THE EXACT MOUNTING LOCATION FOR THE NEW VVS SHALL BE COORDINATED WITH THE OWNER. PROVIDE NEW 2KVA UPS TO POWER NEW VVS (CPU AND MONITORS). REUSE EXISTING 1-20A, 120VAC TO POWER
- $\langle 1 \rangle$ 120 VAC, UPS POWER.
- $\langle 2 \rangle$ PROVIDE INTERFACE WITH ELECTRONIC CONTROL (DOOR CONTROL), INTERCOM/PAGING AND ACCESS CONTROL SYSTEM FOR AUTOMATIC CAMERA CALL-UP AND RECORDING.
- $\overline{3}$ NEW VIDEO VIEWING/MONITORING STATION (27" LED MONITOR, CPU AND KEYBOARD). PROVIDE HDMI CABLE FOR CONNECTION BETWEEN VIDEO MONITOR AND CPU.
- 4 PROVIDE NETWORK SWITCHES TO CONNECT ALL FIELD DEVICES (CAMERAS, VIDEO VIEWING STATIONS, VMS, VRM AND STORAGE) TO ALLOW FAST AND RELIABLE COMMUNICATION AND DATA TRANSFER OF THE VIDEO MANAGEMENT AND RECORDING SYSTEM. PROVIDE COORDINATION AS REQUIRED TO ACCOMMODATE ALL FIELD DEVICES AND EQUIPMENT.
- (5) NEW ARRAY OF HARD DRIVES IN RAID 6 CONFIGURATION FOR VIDEO RECORDING STORAGE. PROVIDE QUANTITY AS REQUIRED TO MEET CONSTRUCTION DOCUMENTS REQUIREMENTS.
- 6 NEW VIDEO MANAGEMENT SYSTEM (VMS) SERVER. THE SERVER SHALL MANAGE ALL VIDEO SYSTEM DEVICES, STORAGE AND NETWORK TRAFFIC FOR THIS FACILITY. COORDINATE WITH THE COUNTY'S SECURITY INTEGRATOR (CML) FOR SETTING UP RULES FOR THE MILESTONE SOFTWARE FOR INTEGRATION TO THE ELECTRONIC SECURITY CONTROL SYSTEM. THE MILESTONE XPROTECT CORPORATE SITE LICENSE IS BY THE COUNTY.
- $\langle \overline{7} \rangle$ 1-3/4" CONDUIT FOR CAT6 CABLE.
- $\langle 8 \rangle$ NEW VIDEO VIEWING/MONITORING STATION (65" 4K LED MONITOR AS NOTED). PROVIDE ALL VIDEO CABLES (HDMI) FOR CONNECTION BETWEEN VIDEO MONITORS AND WORKSTATION.
- $\langle 9 \rangle$ 1-1" CONDUIT FOR CAT6 CABLE.
- (1) PROVIDE MEDIA CONVERTER FROM CAT6 TO FIBER OPTIC CABLE TO ALLOW DATA TRANSFER (VIDEO) .
- 1-2" CONDUIT FOR FIBER OPTIC CABLE (12 STRANDS OF
- 12 1-2" CONDUIT FOR FIBER OPTIC CABLE (2 STRANDS OF MM

DATE DESCRIPTION 4 08/26/2021 ADDENDUM #4



VIDEO MANAGEMENT AND RECORDING SYSTEM DIAGRAM



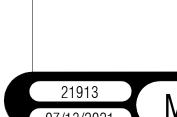
WIGINTON

HISTORY

DATE DESCRIPTION 1 08.25.2021 ADDENDUM #4

MICHAEL JOSEPH SMITH

SITE PLAN -MECHANICAL / PLUMBING



Question	Answer
	The opinion of probable construction cost for this
What is the estimated construction budget?	contract is \$39,268,000.
	Bidders are encouraged to submit bids electronically by
	utilizing Collin County eBid. However, you may submit a
	sealed hard copy paper bid to the Office of the Collin
	County Purchasing Agent.
Is this an online submission only through ionwave?	Refer to Section 001116 and Section 002113.
	The opinion of probable construction cost for this
What is the estimated cost range?	contract is \$39,268,000.
Specification section 012200 Unit Prices references a	
specification section 012100 Allowances, however this	
specification does not appear in the project manual.	Refer to Section 01 22 00 Addendum 1, issued in
Please provide section 012100.	Addendum 2.
Division 33 Utilities specification is not provided,	All information for utilities is provided in the notes on
please provide specification sections related to site	the civil plans or in the standard details. There are no
utilities.	other specifications for utilities.
	Commissioning and Test and balance will be through
	the County and Consultant. Coordination by the
Please clarify if Commissioning Agent is to be	General Contractor and subcontractors with the County
employed by Owner or GC.	consultants will be required.
Sheet A101 has note that reads "New Sliding Fire	
Access Gate, Sim to Existing (Alternate #2: Fence Line	
at Connection to Building and Gate Not Included)",	
please clarify if the intent is for this section of fence	
and vehicular gate that runs from where it connects to	
existing, reused fencing to the building corner is to be	Yes, fence and gate at the building corner is to be part
part of the base bid.	of base bid.
	November 2021, depending on City of McKinney
Please advise of anticipated Notice to Proceed date.	permitting
Structural foundation plans reference sheet S301 for	
pier details however this sheet is not included in the	
plans. Please issue sheet S301.	Drawing S301 has been provided in Addendum 2.
Precon RFI #1	
Ref. DWGs: S301, S306.	
Please provide the following structural drawings which	
are referenced but missing from the drawing package:	Drawings S301 and S306 have been provided in
S301 and S306.	Addendum 2.

Precon RFI #2	
Ref. Spec: 01 21 00, 01 22 00.	
Their speci of 21 60, 01 22 60.	
Specification Section 01 22 00 - Unit Prices references	
Specification Section 01 22 00 - Office Prices Perentees Specification Section 01 21 00 - Allowances, however,	
this section for allowances was not included. Please	
	Defends Costion 01 22 00 Addendum 1 issued in
provide Specification Section 01 21 00 - Allowances if	Refer to Section 01 22 00 Addendum 1, issued in
any allowances must be included in the base bid.	Addendum 2.
Precon RFI #3	
Ref. DWG or Spec: 01 03 00, A800.	
In regards to Alternate #4, please confirm that terrazzo	
is to be used at the finish floor and the wall base in at	
all shower and drying areas.	Yes, correct.
Precon RFI #5	1.00,0000.
Ref. Spec: 31 63 29.	
Net. 3pcc. 31 03 23.	
Please confirm, per Specification Section 31 63 29 -	
Drilled Piers subpart 1.03.D, that pier casings are to be	
included in the base bid.	Confirmed
Sheet S202 references pier details on sheet S301. S301	
is not included as part of the plan set. Please confirm	
which details should be used.	Drawing S301 has been provided in Addendum 2.
	Unit price line item 7.7 has been added to the bid line
Will line items be added to the unit pricing attributes	items. Refer to Section 01 22 00 Addendum 1, issued in
for submittal of the requested pier casing unit cost?	Addendum 2.
Would you please post the pre-bid meeting attendees	The pre-bid meeting sign-in sheet will be issued in an
list?	upcoming addendum.
Drawing S301 appears to be missing from the	
documents and is necessary to determine pier details.	
Please advise.	Drawing S301 has been provided in Addendum 2.
	2. Strong 300 2 from Seen province in Addendari 2.
Section 034500 PRECAST ARCHITECTURAL CONCRETE	
requires the appearance of the new precast panels to	
match the existing (in the opinion of the Architect).	
Please advise who provided the original precast that	
we are trying to match, as this should help us source	Precast panels to match exiting finish, see specifications
aggregates that will achieve the desired appearance.	and drawings
We do not find specifications for pavement markings,	and and winigs
landscaping, or irrigation and expect there will be	As with the utility comment, all the specifications for
some scope for these trades in the project. Please	the civil and landscape items are included in the notes
	·
advise.	and details on the respective sheets.

The County understands the Bidder's concerns, but will still require Attribute 7 to be completed to the best of the Bidder's ability before closing of the bid, based on already submitted subcontractor proposals. If Bidder finds the text box in attribute 7 not sufficient for answering, an attachment may be added in eBid and referenced as the answer in Attribute 7 text box Bid attribute 7 requires us to submit the name and (example "see attachment A: Subcontractors"). type of work for all subcontractors on the project, and appears to be required at the same time as the price A final list of subcontractors is expected to be proposal. Please understand that subcontractor submitted by the apparent low bidder within seven (7) proposals will be coming in right up until the deadline, consecutive calendar days following the bid opening, and it's in the Owner's best interest to allow proposers per the specifications under section 1.8.A.9. to focus on pricing in lieu of such efforts until after bid Qualifications of Bidders, within the properly executed time. Further, submission of this information in a text Contractor's Qualification Statement. This allows block online is going to be messy and cumbersome for Bidder's request for time after bid closing to focus on everyone. the subcontractor list. Any modification of the list of Accordingly, we respectfully request that this attribute subcontractors after bid opening shall not be an be removed and required after the bid deadline. opportunity to adjust bid pricing as submitted. To clarify, this solicitation is an Invitation for Bid not a Request for Proposal. It is the intent of the County to award a contract to the lowest and best responsive and We do not find the Owner's grading criteria for responsible bidder as determined per Section 002113, proposals published for this project. Please advise. 1.16, Method of Award. A public bid opening will be held in the Office of the Purchasing Agent, 2300 Bloomdale Rd., Suite 3160, McKinney, TX 75071. There are no plans for an online Will an online meeting be published to observe the meeting to be published. Bid responses are public opening/reading of all proposals? Please provide information once they have been opened. A bid details on the plan for disclosure of submitted tabulation will be available on Collin County eBid after proposals. bid opening. If submitting electronically through lonwave, bidder will enter their response to Items 1.1 Total Materials Cost and 1.2 Total Labor Cost. The system will total these line items and populate the Base Bid Grand Total. In the Line Items section, there is no place to enter the If submitting a manual bid form, bidder will enter their Base Bid Grand Total amount. I noticed the Bid Form response to Items 1.1 and 1.2 and enter the total of was changed in Addendum 1, but not in the Ionwave these lines in the space provided for Base Bid Grand Total. System. Please advise if this will be updated. Total Material Cost (Line 1.1) and Total Labor Cost (Line 1.2) must add up to the Base Bid Grand Total. No update is required for Bid Line Item 1. Thank you

IFB 2021-239

Bid Questions and Answers

Plan sheet A402 References "precast panel painted to	
match existing". We did not observe painted precast	
panels existing. Please confirm the intent is to have	
smooth face panels with reveals in a natural concrete	
grey.	
If additional sealants or coatings are required please	
clarify.	Concrete coating to match existing, over precast
Sheets S212 and S222 reference details on sheet S306.	5 5, 1
S306 is not included as part of the plan set. Please	
confirm which details should be used.	Drawing S306 has been provided in Addendum 2.
Sheet S306 is referenced on structural floor plans	promote management
however this sheet appears to be missing. Please issue	
sheet.	Drawing S306 has been provided in Addendum 2.
silect.	brawing 3300 has been provided in Addendam 2.
Concrete beam B19 is noted on floor plans however it does not appear on the beam schedule, please advise.	The concrete beam schedule will be updated in an upcoming addendum.
Specification 323114 SITE PERIMETER SECURITY FENCE	
SYSTEM provides information for existing and new	
fencing per 8/A102. However, we do not find	
specifications to go with the new fencing per details 1-	
7/A102. Please provide specifications for this fencing	Specification 32 31 15 Site Fencing vertical added in
including below grade anti-undermining materials.	Addendum 4.
Is the General Contractor to carry the cost of the	The County will pay for the City of McKinney Building
building permit in the proposal?	Permit.
	The opinion of probable construction cost for this
what is budget estimate for this project?	contract is \$39,268,000.
Addendum #2 indicates drawing A290 is to be replaced	
with Drawing A290 ADDENDUM 1, however this	Drawing A290 Addendum 1 was added to bid
revised drawing A290 is not in the list of documents	attachments in Addendum 2. The drawing was #32 on
under the tab Attachments. Please issue the revised	the second page of attachments.
drawing.	A290 Addendum 1 has been moved to attachment #13.
	Drawing A290 Addendum 1 was added to bid
	attachments in Addendum 2. The drawing was #32 on
I cannot locate sheet A290 from Addendum 1. Please	the second page of attachments.
provide direction to access this plan sheet. Thanks.	A290 Addendum 1 has been moved to attachment #13.
Addendum #2 added a unit cost to Deduct pier casing.	
Is the intent to include fully cased piers in the base bid	
cost with a deduct if casing is not used?	Correct
Plan sheet C119 states "Contractor to verify if 6" gas	
line crosses under proposed footprint. If in conflict	
with proposed building and/or retaining wall the 6" gas	
line will need to be rerouted"	Base bid is to construct as shown in the plans. All
Is the base bid to include cost for this if required?	base bla is to construct as shown in the plans. All
is the base bia to include cost for this if regalica.	•
•	available data was used to depict the gas line shown in
Are there as-builts or points of connection available to indicate location of the 6" gas line?	•

Pier P7 is indicated on the foundation plan but does	
not appear in the pier schedule on S301. Please advise	The pier schedule will be updated in an upcoming
on details for pier P7	addendum.
On page E201 note 5 and E202 note 6, it calls for fixtures in referenced area "SHALL BE CONTROLLED BY	
CEILING MOUNTED OCCUPANCY SENSORS. FIXTURES	
SHALL BE CONTROLLED GLOBALLY, INDIVIDUALLY	
FIXTURES SENSORS ARE NOT ACCEPTABLE. TYPICAL	
FOR ALL FIXTURES IN TWO OUTSIDE COLUMNS."	The fixtures shall operatate from several occupancy
Is the EC to provide one CEILING MOUNTED	sensors to turn all the lights (globally) on (parallel). If
OCCUPANCY SENSOR per note reference? If not, how	each fixture has and individual sensor only that fixture
many CEILING MOUNTED OCCUPANCY SENSORS shall	will turn on, this is not acceptable. One sensor will not
we provide for referenced areas?	detect movement that is far away.
Precon RFI #6	
Ref. Spec: 28 31 10	The Fire Alarm contractor shall be an EST qualifed fire
Please advise who the preferred Fire Alarm installer is	alarm contractor. There is not a prefered Fire Alarm
for the existing Edwards EST3 Fire Alarm system.	installer.
Tot the existing Edwards ESTS The Alarm System.	installer.
Precon RFI #7	
Ref. DWGs: L2.00, A101, A102	
Drawing L2.00 has a callout stating "fence & mow curb,	
ref. arch dwgs", however the Architectural Drawings	
do no mention a mow curb at any of the fences. Please	
advise if a mow curb is required at fencing.	There is no mow strip.
Precon RFI #8	
Ref Spec & DWGs: 09 30 10, A800.	
Please advise on the location of the porcelain and/or	
ceramic tile in this project. Specification Section 09 30	
10 - Tile was included but no tile is shown on the	
drawings.	Section 09 30 10 deleted in Addendum 4.
Precon RFI #9	
Ref. Spec & DWGs: 01 03 00, 26 32 13.33, S240.	
Alternative #2 in a control of the c	
Alternate #3 increases the size of the generator. Please	
advise if the concrete pad supporting it will need to	Yes pad will increase. ESTIMATED wet weight:
increase as well. If yes, please provide a detail for the	1000kW - 34,800 lb
enlarged pad.	1250kW - 52,690 lb

Precon RFI #10	
Ref. DWG: A290.	
The narrative of Addendum #2 mentions drawing A290	Drawing A290 Addendum 1 was added to bid
with the note "Downspout connection to splash block	attachments in Addendum 2. The drawing was #32 on
or civil notes added." This drawing was not included	the second page of attachments.
with Addendum #2 on Ionwave (Collin County eBID).	A290 Addendum 1 has been moved to attachment
Please provide drawing A290.	#13."
Precon RFI #11	
Ref. Spec: 10 00 00	
Regarding the Pneumatic Tube System, of the three	
tube station locations, please advise which locations	
are to receive and which are to send.	All three stations are to send and receive to each other.
Precon RFI #12	
Ref. Spec: 10 00 00	
·	
Regarding the Pneumatic Tube System, Specification	
Section 10 00 00 states "Manufacture from heavy steel	
for durability." Please advise if this refers to the	
equipment or tubing of the system. If it refers to the	
equipment, please advise if aluminum tubing may be	
used for this system.	Follow specifications, steel tubes.
Precon RFI #13	
Ref. Spec: 10 00 00	
Please advise on the design of the tubing routes for the	
Pneumatic Tube System between the three stations, as	Tube routing shown on M201, M202. See notes and
none are shown on the drawings.	related drawings.
Precon RFI #14	
Ref. Spec: 10 00 00	
There is no type of carrier included in the specifications	
or drawings for the Pneumatic Tube System. Please	Carrier to be compatible with system type. Carrier
advise if the Quick Tube Systems (QTS) 4" X 10" Lift the	selection to be made by architect and owner from full
Dot Carrier with Air Disk and Bullnose end is	product line of PTS system available options. Provide
acceptable to use. Please also advise on the quantity of	one carrier per tube connection. Provide one carrier as
carriers required.	attic stock.

Precon RFI #15

Ref. DWGs: E010, ES301, ES403.

Electrical one-line on E010 shows the I.T. Room 2017 UPS and Bypass Switch is by DIV 28. On ES301 detail 1. it indicates the UPS is by DIV 28, but the bypass switch is by DIV 26. ES403 detail 9 shows the UPS is by DIV 26 and the bypass switch is by DIV 28. All three documents conflict with one another. Please indicate which items are to be provided by which division.

UPS and bypass switch shall be provided by Div 28 contractor.

Precon RFI #16

Ref. DWGs: IT000, E101.

Drawing IT000 refers to an "Outside Cable Plant" and drawing E101 note 6 states "Existing 5" underground conduit for data. Refer to I.T. Drawings." Please provide a drawing for the "Outside Cable Plant" and/or their vendor for the installation of any fiber or copper the IT site plan.

There is ONLY empty conduit for communications service entrance to I.T. 1213 from just beyond the building perimeter. Refer to keynote 16 on sheet IT601. There is no outside plant cabling to be included in this bid package. Collin County will contract directly with into the building from the Central Plant or otherwise.

Precon RFI #17 Ref. Spec 03 45 00.

Specification Section 03 45 00 - Precast Architectural Concrete states that "The appearance of the new panels shall match the existing [in the opinion of the Architect]." In reference to an RFI asked on 8/4/2021, please confirm that the new precast panels are to be painted to match an existing concrete coating and that the concrete of the new precast panels does not need to match the existing concrete type (color, manufacturer, quarry source). If the concrete types are to match, please provide the contact information of the installer and manufacturer of the existing concrete Precast panels to match exiting finish, see and the date(s) when it was installed.

specifications.

Precon RFI #18 Ref. Spec: 08 34 95.

Specification Section 08 34 95 - Fire And Smoke Curtains subpart 1.01.A.1 mentions a "monumental stair" between the lower level and level 1. Please advise which stair on the drawings is the "monumental Specification 08 34 95 to read "at the windows in stair" as mentioned.

Records / Bond Office Station, room 1308."

Electrical one-line on E010 shows the I.T. Room 2017 UPS and Bypass Switch is by DIV 28. On ES301 detail 1, it indicates the UPS is by DIV 28, but the bypass switch is by DIV 26. ES403 detail 9 shows the UPS is by DIV 26 and the bypass switch is by DIV 28. All three documents conflict with one another. Please indicate which items are to be provided by which division?	UPS and bypass switch shall be provided by Div 28 contractor.
Electrical one-line on E010 shows the I.T. Room 2017 UPS and Bypass Switch is by DIV 28. On ES301 detail 1, it indicates the UPS is by DIV 28, but the bypass switch is by DIV 26. ES403 detail 9 shows the UPS is by DIV 26 and the bypass switch is by DIV 28. Please advise who is to provide the UPS and Bypass Switch.	UPS and bypass switch shall be provided by Div 28 contractor.
Precon RFI #19 Ref. DWGs: S201, S202, S301.	
There is a pier type noted on the structural foundation drawings (S201 & S202) as "P7". However, this pier type is missing from the Pier Schedule on 01/S301. Please revise the Pier Schedule to include the information for pier type P7.	Pier P7 added to the schedule on 1/S301 in Addendum 4.
Is it possible to set up a site walk to inspect the existing electrical room?	An electrical room site walk has been scheduled for 9:00 AM on August 17. See Addendum 3.
1. Architectural drawings A020, A021 & A022 regarding the code show all outer walls as 1 hour fire barrier per the line colors in the legend. Further down the legend under fire resistance it states 'Window assembly in rated exterior walls to be 3/4 hour, glazing at OH-45 or W-60.	
- Do the DA and DA.1 (and DK, DL, DM, DM.1 and DN) windows require a fire rating?	Unprotected openings are permitted per 2018 IBC 705.8, note on window assemblies updated in Addendum 4.
 Specification 11 19 00 Detention, 2.01 Manufacture, K. Detention Windows, calls out our firm as the basis of design and under 2.18 Exterior Detention Windows it calls out our DSW 6060 fixed, fully thermally broken aluminum detention security windows with a stainless steel interior cladding. Interior glazing - type M Exterior glazing - 1" insulated unit. 	
- drawing D702, window DA shows TM glass. Which is correct?	ТМ
3. D213, room 2219 has an exterior window which is not called out. Should this also be a DA window?	Yes, D213 updated in Addendum 4.

4 D244 2002	
4. D214, room 2003 and stairway ST07 show DB	
windows at exterior wall. Should these also be the	
same composition at the DA windows?	See elevations one D702
5. On drawing D702, elevations DA, DA.1 (and DB), the	
details reference 12/A515, 11/A516 and 4/D711 and	
5/D711; all refer to detention hollow metal frame	
details. These are not our details, nor are they	
thermally broken, nor do they show the glazing types	
as stated in the specification. Please confirm the DSW	
6060 product called out in the specification 11 19 00	
Detention, 2.18 Exterior Detention Windows in fact	
takes precedence.	Specifications take precedence.
6. The outdoor rec yards have an exterior wall design	
as they are open to the exterior. Wouldn't the frames	
DK, DL, DM, DM.1 and DN be considered exterior	
windows? Please confirm.	Yes these are exterior windows, see 11 19 00.
7. If the windows in the outdoor rec yards are	
considered exterior frame and covered by our DSW	
6060 design, the corresponding details refer to	
detention hollow metal. Please confirm the specified	
exterior window system would preside.	See specification 11 19 00.
8. If the outdoor rec yard windows are glazed with an	
insulated glass at the lower windows, this glass can be	
easily damaged. This would be very costly to the	
county if an IGU or TM glass is used. Should the	
Exterior Window DSW 6060 be used at the rec yards,	
consider a more robust glass on both inmate facing	
facades of the windows. Use TM on the exterior but	
face the attack rated glass towards the exterior and	
the thin 1/4" tempered towards the interstitial space	Use DHM windows with type M glazing at the lower
and use M glass at the interior as foreseen. The higher	
up windows would not need this.	upper, with exterior lites fully tempered.
	11 / 12 12 12 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15
Precon RFI #20	
Ref. Spec & DWGs: 01 03 00, E010.	
,	
Per Specification Section 01 03 00, Alternate #3 states	
"to modify the size of the generator from 900 KW to	
1250 KW." However, detail 01/E010 states the diesel	
generator is 1000 KW. Please clarify which KW size is	
to be included in the base bid: 900 KW or 1000 KW.	Provide 1000KW
to be included in the base blu. 300 KW of 1000 KW.	TIOVIAC TOOUKVV

The bid documents do not appear to be calling for cased piers. Note N on sheet S100 under DRILLED PIERS indicates we are to provide unit prices for casings. However, the unit prices on the current Addendum 3 bid form are inconsistent with this note. If we are to bid the piers dry (which appears to be the case), the unit prices need to be modified to include an Unit price line item 7.7 has been added to the bid line adder for casing per LF for each pier size, and unit price items. Refer to Section 01 22 00 Addendum 1, issued in 7 for a casing deduct needs to be deleted. Addendum 2. Enlarged Plan 1/A240 for Alternate 1 shows wall tags and dimensions, but no door numbers, door types, window frame types and glazing types can be found. Please clarify what equipment is required to be furnished in the Alternate 1 shell-out (window elevations, door types, glazing types, etc.) See updated sheet A240 in Addendum 5. The pre-bid conference and site-walks are not mandatory. Is site visit mandatory and will there be another site visit scheduled for Construction, Collin County Adult An electrical room site walk has been scheduled for Detention Facility, Phase 1 Addition? 9:00 AM on August 17. See Addendum 3. 1. TA-52 calls for ADA bench kits by WB MFG but I only see benches on the enlarged detention plans labeled as 702-W on D221. 702-W is labeled as a stainless steel floor-mounted detention bench. Can you please clarify which benches, if any, are the TA-52A, B, and X? 2. Please also advise if TA-35X-1 and TA-35X-4 will be required as the spec states to provide where shown on drawings but there are none shown for either those or TA-35. "1. There should be no TA-52 ADA benches anywhere 3. Please clarify where the TA-23XB mirrors are in the inside the detention areas. 702-W is a wall mounted shower rooms and holding cells as those locations do stainless steel detention bench, and is called out as not have lavs/sinks. The spec states to provide an such on the detention equipment schedule on D010. additional TA-23XB mirror in those locations. if used they would be shown on the enlarged plans. 4. Lastly, there are multiple accessories in the spec 2. There are no instances of TA-35(X) in this project that state to refer to drawings for locations where check enlarged plans indicated but they are not shown so I will omit these 3. Check enlarged detention plans (D221 & D222) for unless the drawings are revised to add locations. For the locations of TA-23XA and XB. Mounting height example: TA-42, TA-04, TA-06X, TA-07, TA-24, and TAdrawing on D020 will be corrected in addendum #3. 40. 4. If used - check enlarged plans."

bid Questi	ons and Answers
Fire Alarm Specs and Plans? Not Fire Protection	
I'm looking for Fire Alarm expansion/add to new	
building?	
Are you looking for this to be Engineered by the	The Fire Alarm is a performance based design listed in
selected FA Contractor?	the specifcations (28 31 10 and 28 31 46). The Fire
IF this is handled by a "preferred vendor" or outside of	Alarm contractor shall be and EST qualifed fire alarm
Project by Collin County direct please advise	contractor. This is part of the project costs.
We have been unable to locate specifications for the	' '
permanent retention system at the existing building	
shown on drawing S202 and 1/S307. Please provide	Permanent retention system requirements are shown
specifications for this work.	in 1/S307
LJ Power is a registered bidder for Collin County, has	
provided multiple generator bids in the past for the	
County and has been approved for past MD	
Engineering projects. However, I don't see us listed in	
the specifications. LJ Power Generators is acceptable	
to bid as a generator supplier / manufacturer for this	Provide substitution information since manufacturer is
project, correct?	not listed in specifications.
project, correct:	not listed in specifications.
Drawing C105 shows two different retaining walls, and	
both say to "REFER TO STRUCTURAL PLANS". There	Detail 1/S307 shall be used adjacent to the existing
1	· · · · · · · · · · · · · · · · · · ·
are two different details provided for retaining walls	building where shown on structural plan sheet S202.
on the structural plans (1/S307 and 4/S307). Please	Detail 4/S307 shall be used for the wall shown by the
advise which detail is to be utilized for each location.	entry road south of the building.
We have received a couple questions related to	
architectural woodwork as follows: 1) Specification	
064000.2.02 calls for 3 cm tops and 2 cm splashes, but	
drawings show 3/4" tops. Please advise proper	
thickness of tops, and also for end supports. 2)	
Specification 064000.2.01D calls for doors and drawer	
fronts to be edged with .30 laminate matching the	4 2/4 : : : : : : : :
faces at dark colored laminate. Can PVC be used here	1. 3/4" is nominal- the material only comes in CM
to prevent a visible dark line around the perimeter of	thicknesses
the faces?	2. Yes
Dracan BEL #21	
Precon RFI #21	
Ref. Spec & DWGs: 10 80 00, D221.	
Within Specification Section 10.90.00 TA 52 calls for	
Within Specification Section 10 80 00, TA-52 calls for	There should be no TA 52 ADA hands as assemble as
ADA bench kits by WB MFG but the benches shown in	There should be no TA-52 ADA benches anywhere
the drawings are on the enlarged detention plans	inside the detention areas. 702-W is a wall mounted
labeled as 702-W on D221. 702-W is labeled as a	stainless steel detention bench, and is called out as
stainless steel floor-mounted detention bench. Please	such on the detention equipment schedule on D010. –
clarify which benches, if any, are the TA-52A, B, and X.	if used they would be shown on the enlarged plans.

Precon RFI #22	
Ref. Spec: 10 80 00	
Please advise if TA-35X-1 and TA-35X-4 will be required	
as Specification Section 10 80 00 states to "provide at	
locations shown on drawings", but there are none	There are no instances of TA-35(X) in this project –
shown for either those or TA-35.	check enlarged plans
Precon RFI #23	
Ref. Spec: 10 80 00	
There are multiple accessories listed within	
Specification Section 10 80 00 that state to refer to	
drawings for locations where indicated, but none are	
shown on the drawings. These accessories include, but	
are not limited to, the following: TA-42, TA-04, TA-06X,	
TA-07, TA-24, and TA-40. If these accessories are to be	
provided, please advise on their locations and/or	
quantities.	If used – check enlarged plans.
In specifications 06 40 00-1 2.02 a, Phenolic Tops are	
called out as 3cm at tops and 2cm at splashes.	
Drawings show ¾" thick tops.	
Per the phenolic top supplier. Top material is only	
available in 3/4" and 1" thick.	
Should the 3/4" be used at both splashes and tops?	
What thickness should be used for the end supports?	3/4" for both splash and tops.
specification section 06 40 00-1 2.01 d indicates	
Doors and drawer fronts are to be edged with .30	
laminate matching the faces at dark colored laminate.	
The laminate may show a visible dark line around	
perimeter of faces.	
Could PVC be used here?	Yes.
Reference sheet A240. Please provide wall types	
associated with Alternate 001.	Updated in Addendum 5.
Are rooms 3105, 3209 and 3304 included in Alternate	
004?	Yes, updated in addendum 5.
	The Collin County Sheriff's office will perform
	background checks for free. No other background
	checks or badging will be required by the County. Not
Please confirm if contractor will be required to have	all contract personnel working on the project will be
background checks and/or badging as part of this	required to go through a background check. Example,
project or if the only background check requirements	contractors entering the secure areas of the existing
will be performed by Collin County per 1.51 in	building may be required to go through a background
specification section 002113 Instructions to Bidders.	check.

Division 06 40 00, PART 3—EXECUTION, 3.01	
FABRICATION, E. calls for dovetail construction of	
drawer boxes. One of our subs uses an AWI Premium	
Grade doweled and glued method of construction,	
with cleanable white melamine material, which	
complies with PART 2—PRODUCTS, 2.01, H. Drawers:	
Interiors of all drawers, except drawer face, shall	
receive white melamine. Please Advice if this can be	Substitution requests should be submitted per Section
used?	002113, 1.7.
Section 06 40 00, PART 2—PRODUCTS, 2.01, B. states	
that doors and drawers fronts with dark colored	
laminates are to have plastic laminate edges and light	
colored laminates are to have PVC edges. The	
laminate selection is Wilsonart, Cosmic Strandz. Please	
advise if this laminate is considered light or dark so we	Provide samples for review and selection during
will know which type of edge banding to use.	construction submittal process.
Precon RFI #24	
Ref. Spec: 06 40 00.	
Specification Section 06 40 00 Part 2 – Products, 2.01,	
B. states the following: "Paint tops of all cabinetry semi	
gloss white." Please clarify the extent to which this	
comment is to be applied. Please advise if the "paint"	
may be white melamine. Please also advise if this	
comment is to be applied to cabinets with countertops	Substitution requests should be submitted per Section
on them.	002113, 1.7.
Please confirm size of EQ-360 Bradley Lenox Z lockers	
in 1113. Please also confirm what style type is	Selection to be made from full range of Bradley Z-
required.	lockers, size as indicated in documents.
	·
Precon RFI #25	
Ref. Spec: 06 40 00.	
Section 06 40 00, PART 2—PRODUCTS, 2.01, B. states	
that doors and drawers fronts with dark colored	
laminates are to have plastic laminate edges and light	
colored laminates are to have PVC edges. The	
laminate selection is Wilsonart, Cosmic Strandz. Please	
advise if this laminate is considered light or dark so the	Provide samples for review and selection during
proper type of edge banding may be applied.	construction submittal process.

Precon RFI #26 Ref. Spec: 06 40 00.	
Division 06 40 00, PART 3—EXECUTION, 3.01 FABRICATION, E. calls for dovetail construction of drawer boxes. Millwork subcontractors provide an AWI Premium Grade doweled and glued method of construction, with cleanable white melamine material, which complies with PART 2—PRODUCTS, 2.01, H. Drawers: Interiors of all drawers, except drawer face, shall receive white melamine. Please note that Multiple dovetailed drawer construction is limited to solid wood or minimum 7-ply hardwood veneer core plywood. Reference Architectural Woodwork Standards, Section 10, 10.4.7 Assembly Rules. Please	
advise if the doweled and glued construction method, with cleanable white melamine material, is acceptable	Substitution requests should be submitted per Section
for drawer boxes on this project.	002113, 1.7
Precon RFI #27	002113, 1.7
Ref. DWG: D010.	
The Detention Equipment Schedule on drawing D010	
states that the Video Visitation Unit is Vendor	
Furnished Vendor Installed (VFVI). Please advise if this	
is to be provided and coordinated by the Owner. If not,	
please advise if this is to be included in the base bid of	
this project.	Updated in Addendum #5 to OFOI
Precon RFI #28	
Ref. Spec: 06 40 00.	
Specification Section 06 40 00 Part 2 – Products, 2.13 refers to "BALLISTIC PROTECTION AT LOBBY" and states to "Provide at locations shown and at a minimum at Jail Lobby at new reception window	
locations." However, there is no ballistic fiberglass	There are no not included in this wasted account of the latest
noted on the drawings. Please clarify the location(s) of	There are none included in this project, spec updated in
this ballistic protection on the drawings.	Addendum 5.
Precon RFI #29	
Ref. Spec: 10 00 00.	
Specification Section 10 00 00 Part 2 item 2.5 refers to a "Roof Cable Entry System." Please advise on the	
location(s) and quantity of this system on the	There are none included in this project, spec updated in
drawings, as it is not specifically noted.	Addendum 5.

The retaining walls are spec'd as concrete with soldier	
piles. Please advice if a VE Alternate for Engineered	
Gravity Stone walls is acceptable	No.
·	
9. As it was recently clarified the 11 19 00, 2.18	
Exterior Detention Windows are to be glazed with	
Type TM glass - which is an all clear product. Originally	
the Exterior Detention windows had a bronze tint.	
Please confirm Type TM glass used in the Exterior	
Detention Windows is in fact all clear and no bronze	
tint.	Confirmed
Addendum #1 Bid Form, Item 18, will it be a	
requirement of the Test and Balance Contractor to	The County is in the process of selecting a Test and
submit a Bid Bond certified check in the amount of 5%	Balance firm through a separate solicitation. A bid bond
of the bid amount?	is not required by Test and Balance firms for this IFB.
We have been unable to find and stainless steel tops	
on the project as specified in Section 050100 - MISC.	
METALS - STAINLESS STEEL TOPS. Can you please tell	
us where such tops are located or otherwise delete the	Refer to plans, enlarged plans and detail referenced to
specification if none are required?	D722.
Division 06, 06 40 00, Part 2 – Products, 2.01, B. "Paint	5722.
tops of all cabinetry semi-gloss white." Please clarify.	
Can this be white melamine? Does this include	
cabinets with countertops on them; to what extent	Substitution requests should be submitted per Section
does this comment apply?	002113, 1.7
In regards to the geofoam, the plans reference the	002213, 111
specifications. We are unable to find a geofoam	
specification. Please provide specifications for the	
geofoam.	Updated in Addendum 5, see 03 30 00.
We do not find the roof cable entry system specified in	
100000 - MISCELLANEOUS SPECIALTIES on the	
drawings. Please advise location and quantity of roof	
cable entry systems for the project.	Removed from spec in Addendum 5.
Precon RFI #4	The county is standardized on Honeywell Controls
Ref. Spec: 23 09 00.	controllers. The base communication protocol is
	BACnet. The controls contractor shall meet the
Please advise who the manufacturer is for the existing	requirements outlined in specification section 23 09 00-
HVAC control system.	2, paragraph 1.3.B and 1.3.H
,	The county is standardized on Honeywell Controls
	controllers. The base communication protocol is
	BACnet. The controls contractor shall meet the
Is there a preferred HVAC Controls vendor or can you	requirements outlined in specification section 23 09 00-
advise what system is used at the facility?	2, paragraph 1.3.B and 1.3.H
The state of the s	/ O

	1
Sheet M100 Note 1 states the underground chill water	
piping to be HDPE, but no specification has been issued specifying any other requirements. Please provide an	
underground chilled water specification indicating any	
pipe/fitting and insulation requirements.	Refer to specification 23 21 12, Paragraph 2.3
Sheet M100 Note 2 states to provide a new vault for	Neter to specification 23 21 12, Faragraph 2.3
future chilled water connections. Please provide a	
detail/specification for this vault including the size,	Refer to added vault detail on sheet M100 and revised
access and material requirements.	note by symbol 2, see Addendum #6
access and material requirements.	note by symbol 2, see naachaan no
Specification 220529-2.1-H states the requirements for	
a Pipe Void system and sheet P402 detail 1 provides a	
section of the installation. Please advice if all piping	
and conduits located below grade within the building	Void system only for sanitary waste pipes below grade
required to be installed with a Pipe Void system?	under structure
Draces DEL#20	
Precon RFI #30	
Ref. DWGs: ES501, ES502, ES503, ES504.	
Drawings ES501 through ES504 in the security drawing	
detail has conduits running from the new electrical	
room #1404 to two existing rooms: Existing Building	
Control Room #109 and Existing Equipment Room	
#129. After reviewing the drawing package, it is not	
clear where these rooms are located. Please advise on	
the locations of these rooms.	Revised rooms in Addendum 6.
D	Keynote 16 on IT601 requests that the implied
Precon RFI #31	contractor is to coordinate with the 3rd party vendor
Ref. DWGs: IT601.	CAPCO, a direct contractor of Collin County for final
Note 16 on IT601 mentions to outsid (4) 4" LIC	location and direction of these service entrance
Note 16 on IT601 mentions to extend (4) 4" UG conduits beyond the perimeter roadway from the IT	conduits. There is a perimeter roadway surrounding this project to plan north and plan east of the building.
1213 room. Please indicate the perimeter roadway	Distances are approximately identical to get beyond the
these should be terminated at.	roadway. Use best judgement for bidding purposes.
Specifications 271123 list part # for Vertical Cable	roadway. Ose best judgement for bluding purposes.
Management as PR2VD06	
Part # in Specifications 271116 2.1 C 2 & on Drawing	
IT603 is PR2VD08.	
Please clarify which Vertical Cable Management part #	
is required for project?	Use the larger of the two wire managers PR2VD08.

Specifications state - C. For all work taking place within the scope of the Project, the electrical contractor will provide the grounding system requirements including the TMGB, TGB, and TBB. The Telecomm Contractor will be responsible for grounding work for the portions of the work which inside of the MDF, TSER and IDF's from the cabling, cabinets and pathways to the TGB's. Division 27 contractor shall provide the TMGB and TGB Drawing Note states that the TMGB and TGB are to be in IT 1213 and IT2015 respectively per keynote 10 on provided by Division 27 sheet IT601. Division 26 will provide the grounding Please clarify what contractor is to provide the TMGB backbone cables between IT2015, IT1213, & the main in IT 1213 and TGB in IT 2015? electrical ground. Drawing IT603 states CAPCO responsible for Fiber & Copper Interconnects as follows: "Fiber interconnect The fiber run will be completed by CAPCO; will be completed after the vendor has installed the 2-pole racks with UPS and PDU in the new wiring closet General Contractor to coordinate with CAPCO for all of CAPCO's activity related to this project. Copper interconnect The copper run will be completed by CAPCO; will be completed after the vendor has installed the 2-pole racks with UPS and PDU in the new wiring closet General Contractor to coordinate with CAPCO for all of CAPCO's activity related to this project." Please clarify if CAPCO is responsible for all fiber and CAPCO is responsible for installation and termination of copper backbone cabling including parts listed under all cabling entering the building into IT1213 from the these 2 sections on drawing? or if any backbone Central Plant. Contractor is responsible for any other cabling / materials required for backbone cabling is to cabling and termintions such as the fiber and/or copper between IT1213 and IT2015 (detail 5/IT601). be provided by Division 27 contractor? Specifications 270526 3.3 A state the following: A. Provide MaxCell, 4" 3-cell innerducts in one (1) only "Specification 270528 3.3 A: Demarc is IT1213, provide MaxCell 4"" 3-Cell innerducts of the 4" UG conduit between the MDF (IT1213) and Demarc room Mech/Elect. 1026. Please clarify if this is in only one of the conduits noted in Keynote 16 on to be provided by Division 27 contractor? detail/sheet 3/IT601." The schedule shown on drawing IT603 was provided Drawing IT603 indicates to provide 6 UPS for the intact by the owners. For bidding purposes use project. Should this be 2 instead of 6 so we have 1 per quantity of 6 BUT prior to order confirm with owner for closet? actual amount.

Please confirm that Division 27 Structured Cabling	
Contractor is not responsible for installation of copper	
or fiber cabling to any security devices and Division 28	
Contractor will install cabling for Security devices	Division 28 contractor shall be responsible for all
noted on ES series drawings.	cabling associated with the Security systems.
We have been unable to locate any wire mesh	
partitions per Section 102213 WIRE MESH PARTITIONS	
on the project. Please advise the location of such	
partitions or delete the specification if not required.	Not used, removed in Addendum 6.
Please confirm all network switches, wireless access	
points, phones, and power distribution units (power	
strips) will be provided and installed by the Owner's	All Div.26 power strips shall be by the contractor, not
vendor.	the vendor.
Addendum 5 added Alternate 6 for rooftop equipment	
screens. We are unclear as to the "Decorative	
Architectural Metal Panel(s)" indicated on 2/A290. Are	
these panels those indicated in Specification	
050100.2.02.H? If so, will McNichols panels meeting	
the specified requirements be acceptable? It appears	
the specified vendor is in Chicago and McNichols is	
right here in Dallas.	Please see updated section 07 60 00 in Addendum 6.