



State of Utah

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ADDENDUM NO. 1

Date: October 21, 2010

To: Contractors

From: Jim Russell - Project Manager

Reference: Security Upgrades – American Fork Court
Administrative Office of the Courts – American Fork, Utah
DFCM Project No. 07204150

Subject: **Addendum No. 1**

Pages	Addendum Cover Sheet	1 page
	Architect's Addendum	2 pages
	Specifications	14 pages
	<u>Drawings</u>	<u>2 pages</u>
	Total	19 pages

Note: *This Addendum shall be included as part of the Contract Documents. Items in this Addendum apply to all drawings and specification sections whether referenced or not involving the portion of the work added, deleted, modified, or otherwise addressed in the Addendum. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to Disqualification.*

While we contend that SB220 should only be potentially applicable to a contract issued after the effective date of said bill, this is to clarify that for purposes of this contract, regardless of the execution or effective dates of this contract, the status of Utah Law and remedies available to the State of Utah and DFCM, as it relates to any matter referred to or affected by said SB220, shall be the Utah law in effect at the time of the issuance of this Addendum.

1.1 SCHEDULE CHANGES: There are no Project Schedule changes.

1.2 GENERAL ITEMS:

- 1.2.1 See attached Architect's Addendum 001 dated October 20, 2010
- 1.2.2 See attached Architectural Specification Changes dated October 21, 2010.
- 1.2.3 See attached site (C101) and landscape/irrigation (L101) plans.

Addendum 001

project:	American Fork Courts Security Upgrade	project no:	10160
date:	2010-10-20	no. pages:	16
owner:	Administrative Office of the Courts		
bid date:	2010-10-26	bid time:	3:00 pm

This Addendum shall be considered part of the Contract Documents and Project Manual for the above mentioned project as though it had been issued at the same time and shall be incorporated integrally therewith. Where provisions of the following supplementary data differ from those of the original Contract Documents and Project Manual, the Addendum shall govern and take precedence.

General: Item Description

1.1	Please note that the drawings are to be printed at 30" x 42" to be at the proper scale.
1.2	Landscape work will include removing existing shrubs and landscape, irrigation systems and removing the existing tree in front of the new addition. Unforeseen site and landscape conditions will be assessed after the bid is awarded. The Civil Site Plan and Landscape Irrigation Plan from the original construction documents are attached, for your use. The existing landscape east of the entry vestibule should be recreated east of the vestibule addition.
1.3	The existing building signage over the entry door should be removed as needed to complete the addition and then replaced in the same location over the entry doors.
1.4	All exterior glazing is to meet specifications - Solarban 60 or equal, per 88 8000 3.10.A.5 - and match the tint of the existing exterior glazing. All interior glazing is to be clear or frosted, as called for in the drawings.
1.5	None of the doors referenced in this project are required to be fire rated.
1.6	All hardware to be bid as presented in the construction documents. The hardware will be assessed on a door by door basis after the bid is awarded to assess which existing hardware systems can remain, if any.
1.7	Hardware sets for storefront doors, as shown on AE110 are found in specification section 08 4113 pages 8-9. Hardware sets for non-storefront doors as called out on AE101, AE102 and AE103 are found in specification section 08 7100 pages 11-12.
1.8	Doors 101, 103A and 103B are all new storefront doors, to match existing. The remainder of the doors are existing and will receive new hardware.
1.9	

Drawings:

Item	Description
1.1	AE110 - The existing storefront segment between the Entry Vestibule 100 and Security 101 should be removed, have the necessary parts replaced in the existing frame to accommodate a single leaf door and replaced in the same location.

1.2	AE110 - Finishes defined on the floor plan were not scheduled. The following finishes should be used in the new exit vestibule. F1 - Floor to be 12" x 24" tile, to match existing B1 - Base to be 12" x 4" tile, to match existing W1 - Wall to be painted to match existing In addition, the elevation of the finish floor should be such that the tile in the vestibule aligns with existing in the corridor.
1.3	AE130 - E1East Exit Vestibule Elevation - Add roller shades along the windows to match the existing roller shades in the building.
1.4	Sheet EE102 - Card Reader Door Adj. to 'File Storage 203': Delayed-egress locking hardware has be revised from a Chexit type exit device, to shear mag-lock with delayed-egress controller/power supply with switched exit devices on each side of door, to provide delayed-egress function in both directions. Indicated wiring to door should be adequate for new function. Provide price to wire 2nd exit device.

Specifications:

Item	Description
1.1	Section 08 4113 - Aluminum Entrances and Storefronts 6 2.5.C.2. Update per attached specification changes
1.2	Section 09 3013 - Ceramic Tile has been added per drawing note 1.2
1.3	Section 12 2400 - Roller Shades has been added per drawing note 1.4

End of Addendum 001

ARCHITECTURAL SPECIFICATION CHANGES

DFCM AMERICAN FORK SECURITY UPGRADE – ENTRY REMODEL– DFCM #07204150-P8.2

October 21, 2010

Note: Deleted items are shown with ~~striketrough~~ and added items are shown underlined.

At **SECTION 084113 – ALUMINUM ENTRANCES AND STOREFRONTS**

At **ITEM 2.5 COMPONENTS** at Item C change Item 2 to read as follows:

2. **Design:** Provide ~~2~~ 1 ¾ -inch-thick doors to match existing with minimum 3/16 inch wall thickness.

Add **SECTION 09310 – CERAMIC TILE:**

See attached section.

Add **SECTION 12 2400 – ROLLER SHADES**

See attached section.

END OF ARCHITECTURAL SPECIFICATION CHANGES

SECTION 09 3013

CERAMIC TILE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This **Section includes** the following:
 - 1. **Porcelain** floor and wall tile.
- B. **Related Sections** include the following:
 - 1. **Division 3** Section "**Cast-in-Place Concrete**" for monolithic slab finishes specified for tile substrates.
 - 2. **Division 7** Section "**Joint Sealants**" for sealing of expansion, contraction, control, and isolation joints in tile surfaces.
 - 3. **Division 9** Section "**Gypsum Board Assemblies**" for tile backing panels installed in gypsum wallboard assemblies.

1.3 DEFINITIONS

- A. **Module Size:** Actual tile size (minor facial dimension as measured per ASTM C 499) plus joint width indicated.
- B. **Facial Dimension:** Nominal tile size as defined in ANSI A137.1.

1.4 PERFORMANCE REQUIREMENTS

- A. **Static Coefficient of Friction:** For tile installed on walkway surfaces, provide products with the following values as determined by testing identical products per ASTM C 1028:
 - 1. **Level Surfaces:** Minimum 0.6.
- B. **Load-Bearing Performance:** For ceramic tile installed on walkway surfaces, provide installations rated for the following load-bearing performance level based on testing assemblies according to ASTM C 627 that are representative of those indicated for this Project:
 - 1. **Heavy:** Passes cycles 1 through 12.

1.5 SUBMITTALS

- A. **Product Data:** For each type of tile, mortar, grout, and other products specified.
- B. **Tile Samples for Selection:** Manufacturer's color charts consisting of actual tiles or sections of tiles showing the full range of colors, textures, and patterns available for each type and composition of tile indicated. Include Samples of accessories involving color selection.

- C. **Grout Samples for Selection:** Manufacturer's color charts consisting of actual sections of grout showing the full range of colors available for each type of grout indicated.

1.6 QUALITY ASSURANCE

- A. **Installer Qualifications:** Engage an experienced installer who has completed tile installations similar in material, design, and extent to that indicated for this Project and with a record of successful in-service performance.
- B. **Source Limitations for Tile:** Obtain each color, grade, finish, type, composition, and variety of tile from one source with resources to provide products from the same production run for each contiguous area of consistent quality in appearance and physical properties without delaying the Work.
- C. **Source Limitations for Setting and Grouting Materials:** Obtain ingredients of a uniform quality for each mortar, adhesive, and grout component from a single manufacturer and each aggregate from one source or producer.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. **Deliver and store** packaged materials in original containers with seals unbroken and labels intact until time of use. Comply with requirement of ANSI A137.1 for labeling sealed tile packages.
- B. **Prevent damage** or contamination to materials by water, freezing, foreign matter, and other causes.
- C. **Handle tile** with temporary protective coating on exposed surfaces to prevent coated surfaces from contacting backs or edges of other units. If coating does contact bonding surfaces of tile, remove coating from bonding surfaces before setting tile.

1.8 PROJECT CONDITIONS

- A. **Environmental Limitations:** Do not install tile until construction in spaces is completed and ambient temperature and humidity conditions are being maintained to comply with referenced standards and manufacturer's written instructions.

1.9 EXTRA MATERIALS

- A. **Deliver extra materials to Owner.** Furnish extra materials described below that match products installed, are packaged with protective covering for storage, and are identified with labels describing contents.
 - 1. **Tile and Trim Units:** Furnish quantity of full-size units equal to 3 percent of amount installed, for each type, composition, color, pattern, and size indicated.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. **Available Manufacturers:** Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include the following:
 - 1. **Tile Products:**

- a. **American Olean** Tile Company.
- b. **Dal-Tile** Corporation.
- c. **United States Ceramic** Tile Company.
- 2. **Tile-Setting and -Grouting Materials:**
 - a. **Laticrete** International, Inc.
 - b. **Mapei** Corporation.

2.2 PRODUCTS, GENERAL

- A. **ANSI Ceramic Tile Standard:** Provide tile that complies with ANSI A137.1, "Specifications for Ceramic Tile," for types, compositions, and other characteristics indicated.
 - 1. **Provide tile** complying with **Standard Grade** requirements, unless otherwise indicated.
 - 2. **For facial dimensions of tile**, comply with requirements relating to tile sizes specified in Part 1 "Definitions" Article.
- B. **ANSI Standards for Tile Installation Materials:** Provide materials complying with ANSI standards referenced in "Setting Materials" and "Grouting Materials" articles.
- C. **Colors, Textures, and Patterns:** Where manufacturer's standard products are indicated for tile, grout, and other products requiring selection of colors, surface textures, patterns, and other appearance characteristics, provide specific products or materials complying with the following requirements:
 - 1. **Provide Architect's selections** from manufacturer's full range of colors, textures, and patterns for products of type indicated. Also see the Finish Schedule.
 - 2. **Provide tile trim and accessories** that match color and finish of adjoining flat tile.
- D. **Factory Blending:** For tile exhibiting color variations within the ranges selected during Sample submittals, blend tile in the factory and package so tile units taken from one package show the same range in colors as those taken from other packages and match approved Samples.
- E. **Mounting:** Where factory-mounted tile is required, provide back- or edge-mounted tile assemblies as standard with manufacturer, unless another mounting method is indicated.
 - 1. **Where tile** is indicated for installation in **wet areas**, do not use back- or edge-mounted tile assemblies unless tile manufacturer specifies in writing that this type of mounting is suitable for these kinds of installations and has a record of successful in-service performance.

2.3 TILE PRODUCTS

- A. **Porcelain Ceramic Floor Tile:** Provide factory-mounted flat tile complying with the following requirements:
 - 1. **Composition:** Porcelain.
 - 2. **Tile Size:** 12 x 24 inches.
 - 3. **Face:** Plain with square or cushion edges.
 - 4. **Design Standard:** Dal Tile **Diamante Series**
 - 5. **Color:** Crema.
- B. **Trim Units:** Provide tile trim units to match characteristics of adjoining flat tile and to

comply with the following requirements:

1. **Size:** As indicated, coordinated with sizes and coursing of adjoining flat tile where applicable.
2. **Shapes:** As follows, selected from manufacturer's standard shapes:
 - a. **Base for Thin-Set Mortar Installations:** Straight.
 - b. **Internal Corners:** Field-buttet square corners, except with coved base and cap angle pieces designed to member with stretcher shapes.

2.4 SETTING MATERIALS

- A. **Latex-Portland Cement Mortar:** ANSI A118.4, composed as follows:
 1. Mixture of Dry-Mortar Mix and Latex Additive: Mixture of prepackaged dry-mortar mix and liquid-latex additive complying with the following requirements:
 - a. **Equal to:** Laticrete 3701.
 - b. **Latex Additive:** Styrene butadiene rubber.
 - c. **For wall applications,** provide nonsagging, latex-portland cement mortar complying with ANSI A118.4 for mortar of this type defined in Section F-2.1.2.

2.5 GROUTING MATERIALS

- A. **Latex-Portland Cement Grout:** ANSI A118.6 for materials described in Section H-2.4, composed as follows:
 1. **Mixture of Dry-Grout Mix and Latex Additive:** Mixture of factory-prepared, dry-grout mix and latex additive complying with the following requirements:
 - a. **Unsanded Dry-Grout Mix:** Dry-set grout complying with ANSI A118.6 for materials described in Section H-2.3, for joints **1/8 inch** (3.2 mm) and **narrower**.
 - b. **Sanded Dry-Grout Mix:** Commercial portland cement grout complying with ANSI A118.6 for materials described in Section H-2.1, for joints **1/8 inch** (3.2 mm) and **wider**.
 - c. **Latex Additive:** Styrene butadiene rubber.
 - 1) **Equal to:** Laticrete 3701.
 - d. **Colors:** Multiple colors - will be selected to **match existing grout color**.

2.6 ELASTOMERIC SEALANTS

- A. **General:** Provide manufacturer's standard chemically curing, elastomeric sealants of base polymer and characteristics indicated that comply with applicable requirements of Division 7 Section "Joint Sealants."
- B. **Colors:** Provide colors of exposed sealants to match colors of grout in tile adjoining sealed joints, unless otherwise indicated.
- C. **One-Part, Mildew-Resistant Silicone Sealant:** ASTM C 920; Type S; Grade NS; Class 25; Uses NT, G, A, and, as applicable to nonporous joint substrates indicated, O; formulated with fungicide, intended for sealing interior ceramic tile joints and other nonporous substrates that are subject to in-service exposures of high humidity and temperature extremes.
- D. **Multipart, Pourable Urethane Sealant for Use T:** ASTM C 920; Type M; Grade P; Class 25; Uses T, M, A, and, as applicable to joint substrates indicated, O.

- E. **Available Products:** Subject to compliance with requirements, products which may be incorporated into the Work include, but are not limited to, the following:
1. **One-Part, Mildew-Resistant Silicone Sealants:**
 - a. Dow Corning 786; Dow Corning Corporation.
 - b. Sanitary 1700; GE Silicones.
 - c. Pecora 898 Sanitary Silicone Sealant; Pecora Corp.
 - d. Tremsil 600 White; Tremco, Inc.
 2. **Multipart, Pourable Urethane Sealants:**
 - a. Chem-Calk 550; Bostik.
 - b. Vulkem 245; Mameco International, Inc.
 - c. NR-200 Urexpan; Pecora Corp.
 - d. THC-900; Tremco, Inc.

2.7 MISCELLANEOUS MATERIALS

- A. **Trowelable Underlayments and Patching Compounds:** Latex-modified, portland-cement-based formulation provided or approved by manufacturer of tile-setting materials for installations indicated.
- B. **Metal Edge Strips:** White-zinc-alloy terrazzo strips, 1/8 inch (3.2 mm) wide at top edge with integral provision for anchorage to mortar bed or substrate, unless otherwise indicated.
- C. **Tile Cleaner:** A neutral cleaner capable of removing soil and residue without harming tile and grout surfaces, specifically approved for materials and installations indicated by tile and grout manufacturers.
- D. **Grout Sealer:** Solvent-based, no-sheen, natural-look penetrating sealer for all sanded and non-sanded grout joints.
1. Equal to: **AQUA MIX**, Inc., Sealers Choice.

2.8 MIXING MORTARS AND GROUT

- A. **Mix mortars** and grouts to comply with referenced standards and mortar and grout manufacturers' written instructions.
- B. **Add materials and additives in accurate proportions.** Do not use or add any water to mortar or grout when mixing, use only latex additive.
- C. **Obtain and use type of mixing equipment,** mixer speeds, mixing containers, mixing time, and other procedures to produce mortars and grouts of uniform quality with optimum performance characteristics for installations indicated.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. **Examine substrates,** areas, and conditions where tile will be installed, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of installed tile.
1. **Verify that substrates** for setting tile are **firm; dry; clean;** free from oil, waxy films, and curing compounds; and within flatness tolerances required by

referenced ANSI A108 series of tile installation standards for installations indicated.

2. **Verify that installation of grounds**, anchors, recessed frames, electrical and mechanical units of work, and similar items located in or behind tile has been completed before installing tile.
3. **Verify that joints and cracks** in tile substrates are coordinated with tile joint locations; if not coordinated, adjust latter in consultation with Architect.

B. **Do not proceed** with installation until unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. **Remove coatings**, including curing compounds, and other substances that contain soap, wax, oil, or silicone and are incompatible with tile-setting materials by using a terrazzo or concrete grinder, a drum sander, or a polishing machine equipped with a heavy-duty wire brush.
- B. **Provide concrete substrates** for tile floors installed with dry-set or latex-portland cement mortars that comply with flatness tolerances specified in referenced ANSI A108 series of tile installation standards for installations indicated.
 1. **Use trowelable leveling and patching compounds** per tile-setting material manufacturer's written instructions to fill cracks, holes, and depressions.
 2. **Remove protrusions**, bumps, and ridges by sanding or grinding.
- C. **Blending**: For tile exhibiting color variations within the ranges selected during Sample submittals, verify that tile has been blended in the factory and packaged so tile units taken from one package show the same range in colors as those taken from other packages and match approved Samples. If not factory blended, either return to manufacturer or blend tiles at Project site before installing.
- D. **Field-Applied Temporary Protective Coating**: Where indicated under tile type or needed to prevent adhesion or staining of exposed tile surfaces by grout, protect exposed surfaces of tile against adherence of mortar and grout by precoating them with a continuous film of temporary protective coating indicated below, taking care not to coat unexposed tile surfaces:
 1. **Petroleum paraffin wax**, applied hot.

3.3 INSTALLATION, GENERAL

- A. **ANSI Tile Installation Standards**: Comply with parts of ANSI A108 series of tile installation standards in "Specifications for Installation of Ceramic Tile" that apply to types of setting and grouting materials and to methods indicated in ceramic tile installation schedules.
- B. **TCNA Installation Guidelines**: TCNA's "Handbook for Ceramic Tile Installation." Comply with TCNA installation methods indicated in ceramic tile installation schedules.
- C. **Extend tile work into recesses** and under or behind equipment and fixtures to form a complete covering without interruptions, unless otherwise indicated. Terminate work neatly at obstructions, edges, and corners without disrupting pattern or joint alignments.
- D. **Accurately form intersections and returns**. Perform cutting and drilling of tile without marring visible surfaces. Carefully grind cut edges of tile abutting trim, finish, or built-in

items for straight aligned joints. Fit tile closely to electrical outlets, piping, fixtures, and other penetrations so plates, collars, or covers overlap tile.

- E. **Jointing Pattern:** Lay tile in grid pattern, unless otherwise indicated. Align joints when adjoining tiles on floor, base, walls, and trim are the same size. Lay out tile work and center tile fields in both directions in each space or on each wall area. Adjust to minimize tile cutting. Provide uniform joint widths, unless otherwise indicated.
 - 1. For tile mounted in sheets, make joints between tile sheets the same width as joints within tile sheets so joints between sheets are not apparent in finished work.
- F. **Lay out tile wainscots** to next full tile beyond dimensions indicated.
- G. **Expansion Joints:** Locate expansion joints and other sealant-filled joints, including control, contraction, and isolation joints, where indicated or if not indicated as recommended by **TCNA guidelines**, during installation of setting materials, mortar beds, and tile. Do not saw-cut joints after installing tiles.
 - 1. **Locate joints** in tile surfaces directly above joints in concrete substrates.
 - 2. **Prepare joints** and apply sealants to comply with requirements of Division 7 Section "Joint Sealants."
- H. **Grout tile to comply** with the requirements of the following tile installation standards:
 - 1. **For ceramic tile grouts** (sand-portland cement, dry-set, commercial portland cement, and latex-portland cement grouts), comply with ANSI A108.10.

3.4 FLOOR TILE INSTALLATION

- A. **General:** Install tile to comply with requirements in the Ceramic Tile Floor Installation Schedule, including those referencing **TCNA** installation methods and **ANSI A108** series of tile installation standards.
 - 1. **Movement Joints:** Provide movement joints as recommended by **TCNA EJ171-09 "Movement Joint Design Essentials"**. Space joints as indicated on the drawings, if not shown on the drawings space joints as recommended by **TCNA guidelines**. **Coordinate with the Architect for precise location** of joints, locate joints as follows:
 - a. **Interior:** Space joints not greater than **20 feet** in each direction interior spaces.
 - b. **Provide joints** where tilework abuts restraining surfaces such as perimeter walls, dissimilar floors, curbs, columns, pipes, ceilings and where changes occur in backing materials. Not at drain strainers.
 - c. **Provide joints where the following conditions exist:** at all expansion, control, construction, cold and seismic joints, including such conditions at vertical surfaces.
 - 2. **Installation Methods:**
 - a. **Tile over Concrete Surfaces:** **TCNA F125A-09**.
- B. **Joint Widths:** Install tile on floors with the following joint widths:
 - 1. **Match existing joint width.**
- C. **Back Buttering:** For installations indicated, obtain 100 percent mortar coverage by complying with applicable special requirements for back buttering of tile in referenced ANSI A108 series of tile installation standards:
 - 1. Tile floors composed of tiles 8 by 8 inches (203 by 203 mm) or larger.

2. Tile floors installed with chemical-resistant grouts.
- D. **Metal Edge Strips:** Install at locations indicated or where exposed edge of tile flooring meets carpet, wood, or other flooring that finishes flush with top of tile.
- E. **Apply two (2) coats of grout sealer** in accordance with manufacturer's printed instructions and recommendations. Remove sealer remaining on the tile within 3 to 5 minutes of application.

3.5 CLEANING AND PROTECTING

- A. **Cleaning:** On completion of placement and grouting, clean all ceramic tile surfaces so they are free of foreign matter.
1. **Remove latex-portland cement grout residue** from tile as soon as possible.
 2. **Unglazed tile** may be cleaned with acid solutions only when permitted by tile and grout manufacturer's written instructions, but no sooner than 10 days after installation. Protect metal surfaces, cast iron, and vitreous plumbing fixtures from effects of acid cleaning. Flush surface with clean water before and after cleaning.
 3. **Remove temporary protective coating** by method recommended by coating manufacturer that is acceptable to brick and grout manufacturer. Trap and remove coating to prevent it from clogging drains.
- B. **Finished Tile Work:** Leave finished installation clean and free of cracked, chipped, broken, unbonded, and otherwise defective tile work.
- C. **Provide final protection** and maintain conditions, in a manner acceptable to manufacturer and Installer, that ensure tile is without damage or deterioration at the time of Substantial Completion.
- D. **When recommended by tile manufacturer**, apply a protective coat of neutral protective cleaner to completed tile walls and floors. Protect installed tile work with kraft paper or other heavy covering during construction period to prevent staining, damage, and wear.
- E. **Prohibit foot and wheel traffic** from tiled floors for at least 7 days after grouting is completed.
- F. **Before final inspection**, remove protective coverings and rinse neutral cleaner from tile surfaces.

END OF SECTION

SECTION 12 2400

ROLLER SHADES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. **This Section includes:**
 - 1. **Manually** operated roller shades
- B. **Related Sections** include the following:
 - 1. **Division 6** Section "**Miscellaneous Carpentry**" for wood blocking and grounds for mounting roller shades and accessories.

1.3 SUBMITTALS

- A. **Product Data:** For each type of product indicated. Include styles, material descriptions, construction details, dimensions of individual components and profiles, features, finishes, and operating instructions.
- B. **Shop Drawings:** Show location and extent of roller shades. Include elevations, sections, details, and dimensions not shown in Product Data. Show installation details, mountings, attachments to other Work, operational clearances, and relationship to adjoining work.
- C. **Samples for Verification:**
 - 1. For the following products:
 - a. **Shade Material:** Not less than 3 inches (80 mm) square, with specified treatments applied. Mark face of material.
 - b. **Color Selection:** Include similar Samples of accessories involving color selection.
- D. **Product Certificates:** For each type of roller shade product, signed by product manufacturer.
- E. **Product Test Reports:** For each type of roller shade product.
- F. **Qualification Data:** For Installer.
- G. **Maintenance Data:** For roller shades to include in maintenance manuals. Include the following:
 - 1. **Methods** for maintaining roller shades and finishes.
 - 2. **Precautions** about cleaning materials and methods that could be detrimental to fabrics, finishes, and performance.
 - 3. **Operating** hardware.

1.4 QUALITY ASSURANCE

- A. **Installer Qualifications:** An experienced installer who has completed installation of roller shades similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
- B. **Source Limitations:** Obtain roller shades through one source from a single manufacturer.
- C. **Fire-Test-Response Characteristics:** Provide roller shade band materials with the fire-test-response characteristics indicated, as determined by testing identical products per test method indicated below by UL or another testing and inspecting agency acceptable to authorities having jurisdiction:
 - 1. **Flame-Resistance Ratings:** Passes NFPA 701.
- D. **Corded Window Covering Product Standard:** Provide roller shades complying with WCMA A 100.1.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver shades in factory packages, marked with manufacturer and product name, fire-test-response characteristics, and location of installation using same room designations indicated on Drawings and in a window treatment schedule.

1.6 PROJECT CONDITIONS

- A. **Environmental Limitations:** Do not install roller shades until construction and wet and dirty finish work in spaces, including painting, is complete and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.
- B. **Field Measurements:** Where roller shades are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication and indicate measurements on Shop Drawings. Allow clearances for operable glazed units' operation hardware throughout the entire operating range. Notify Architect of discrepancies. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. **Manufacturers:** Subject to compliance with requirements, provide products by one of the following:
 - 1. **Draper** Shade & Screen Co., Inc.
 - 2. **Levolor** Contract; a Newell Company; Joanna.
 - 3. **Mariak** Industries, Inc. 1609 Lockness Place, Torrance, CA 1-800-562-7425
www.mariak.com.
 - 4. **MechoShade** 42-03 35th Street, Long Island City, NY 11101 718-729-2020.
 - 5. **Nysan** Shading Systems Ltd.
 - 6. **Solar Solutions** by Castic, 7531 Coldwater Canyon Ave, North Hollywood, CA 91605 866-535-6315.

2.2 ROLLER SHADES

- A. **Shade Band Material:** PVC-coated polyester.
1. **Material Width:** Not less than 96 inches (2440 mm).
 2. **Bottom Hem:** Straight.
 3. **Trim:** As indicated by manufacturer's designation for style and color.
 4. **Material Openness Factor:** Match existing shades.
 5. **Material Color:** **Match existing shades.** The Architect will select the matching color from manufacturer's full range of colors.
- B. **Rollers:** Electrogalvanized or epoxy primed steel or extruded-aluminum tube of diameter and wall thickness required to support and fit internal components of operating system and the weight and width of shade band material without sagging; designed to be easily removable from support brackets; with removable spline fitting integral channel in tube for attaching shade material. Provide capacity for one roller shade band per roller, unless otherwise indicated on Drawings.
- C. **Direction of Roll:** Regular, from back of roller.
- D. **Mounting Brackets:** Galvanized or zinc-plated steel.
- E. **Fascia:** L-shaped, formed-steel sheet or extruded aluminum; long edges returned or rolled; continuous panel concealing front and bottom of shade roller, brackets, and operating hardware and operators; length as indicated on Drawings; removable design for access.
- F. **Top/Back Cover:** L shaped; material and finish to match fascia; combining with fascia and end caps to form a six-sided headbox enclosure sized to fit shade roller and operating hardware inside.
- G. **Bottom Bar:** Steel or extruded aluminum, with plastic or metal capped ends. Provide concealed, by pocket of shade material, internal-type bottom bar with concealed weight bar as required for smooth, properly balanced shade operation.
- H. **Shade Operation:** **Manual;** with continuous loop bead chain, clutch, and cord tensioner and bracket lift operator.
1. **Position of Clutch Operator:** Right side of roller, as determined by hand of user facing shade from inside, unless otherwise indicated on Drawings.
 2. **Clutch:** Capacity to lift size and weight of shade; sized to fit roller or provide adaptor.
 3. **Loop Length:** Length required to make operation convenient from floor level.
 4. **Bead Chain:** Nickel-plated metal.
 5. **Cord Tensioner Mounting:** Sill.
 6. **Operating Function:** Stop and hold shade at any position in ascending or descending travel.
- I. **Mounting:** Bottom-up brackets mounting permitting easy removal and replacement without damaging roller shade or adjacent surfaces and finishes.

2.3 ROLLER SHADE FABRICATION

- A. **Product Description:** Roller shade consisting of a roller, a means of supporting the roller, a flexible sheet or band of material carried by the roller, a means of attaching the material to the roller, a bottom bar, and an operating mechanism that lifts and lowers the shade.

- B. **Concealed Components:** Noncorrodible or corrosion-resistant-coated materials.
 - 1. **Lifting Mechanism:** With permanently lubricated moving parts.
- C. **Unit Sizes:** Obtain units fabricated in sizes to fill window and other openings as follows, measured at 74 deg F (23 deg C):
 - 1. **Shade Units Installed between (Inside) Jamb:** Edge of shade not more than 1/4 inch (6 mm) from face of jamb. Length equal to head to sill dimension of opening in which each shade is installed.
 - 2. **Shade Units Installed Outside Jamb:** Width and length as indicated, with terminations between shades of end-to-end installations at centerlines of mullion or other defined vertical separations between openings.
- D. **Installation Brackets:** Designed for easy removal and reinstallation of shade, for supporting fascia, roller, and operating hardware and for hardware position and shade mounting method indicated.
- E. **Installation Fasteners:** Not fewer than two fasteners per bracket, fabricated from metal noncorrosive to shade hardware and adjoining construction; type designed for securing to supporting substrate; and supporting shades and accessories under conditions of normal use.
- F. **Color-Coated Finish:** For metal components exposed to view, apply manufacturer's standard baked finish complying with manufacturer's written instructions for surface preparation including pretreatment, application, baking, and minimum dry film thickness.
- G. **Colors of Metal and Plastic Components Exposed to View: Match existing shades.**
The Architect will select matching color from manufacturer's full range of colors.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. **Examine substrates,** areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, operational clearances, accurate locations of connections to building electrical system, and other conditions affecting performance. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 ROLLER SHADE INSTALLATION

- A. **Install roller shades level,** plumb, square, and true according to manufacturer's written instructions, and located so shade band is not closer than 2 inches (50 mm) to interior face of glass. Allow clearances for window operation hardware.
- B. **Mounting:** Mount roller shades to **match existing shades.**

3.3 ADJUSTING

- A. Adjust and balance roller shades to operate smoothly, easily, safely, and free from binding or malfunction throughout entire operational range.

3.4 CLEANING AND PROTECTION

- A. Clean roller shade surfaces after installation, according to manufacturer's written instructions.

- B. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and Installer, that ensure that roller shades are without damage or deterioration at time of Substantial Completion.
- C. Replace damaged roller shades that cannot be repaired, in a manner approved by Architect, before time of Substantial Completion.

3.5 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain systems. Refer to Division 1 Section "Closeout Procedures."

END OF SECTION



Scale: 1" = 20'

Legend

(Note: All items may not appear on drawing)

- San. Sewer Manhole
- Water Manhole
- Storm Drain Manhole
- Electrical Manhole
- Catch Basins
- Exist. Fire Hydrant
- Exist. Water Valve
- Water Valve
- Sanitary Sewer
- Culinary Water
- Gas Line
- Irrigation Line
- Telephone Line
- Storm Drain
- Secondary Waterline
- Power Line
- Fire Line
- Land Drain
- Power pole
- Power pole w/guy
- Light Pole
- Fence
- Flowline of ditch
- Overhead Power line
- Corrugated Metal Pipe
- Concrete Pipe
- Reinforced Concrete Pipe
- Ductile Iron
- Polyvinyl Chloride
- Top of Asphalt
- Edge of Asphalt
- Centerline
- Flowline
- Floor
- Top of Wall
- Top of Work
- Top of Concrete
- Finish Contour
- Exist. Contour
- Finish Grade
- Exist. Grade
- Ridge Line
- Direction of Flow
- Existing Asphalt
- New Asphalt
- Heavy Duty Asphalt
- Concrete
- Gravel
- Open Face
- Curb & Gutter
- Standard
- Curb & Gutter

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AMERICAN FORK POLICE AND COURTS BUILDING

75 NORTH CHURCH STREET
 AMERICAN FORK CITY, UTAH



DRAWN:
 CHECKED:

ISSUED:

NO.	DESCRIPTION	DATE
1	100% SCHEMATIC DESIGN	19 Oct, 2000
2	DESIGN DEVELOPMENT	
3	95% REVIEW SET	2 Mar, 2001
4	BID PACKAGE NO. 4	19 Mar, 2001

REVISIONS:

NO.	DATE	DESCRIPTION
1	5-9-01	Drive approach - 1 st East
2		
3		
4		
5		
6		
7		
8		

CIVIL SITE PLAN

BID PACKAGE NO. 5

MHTN PROJECT NO.
 20199
 SHEET NUMBER

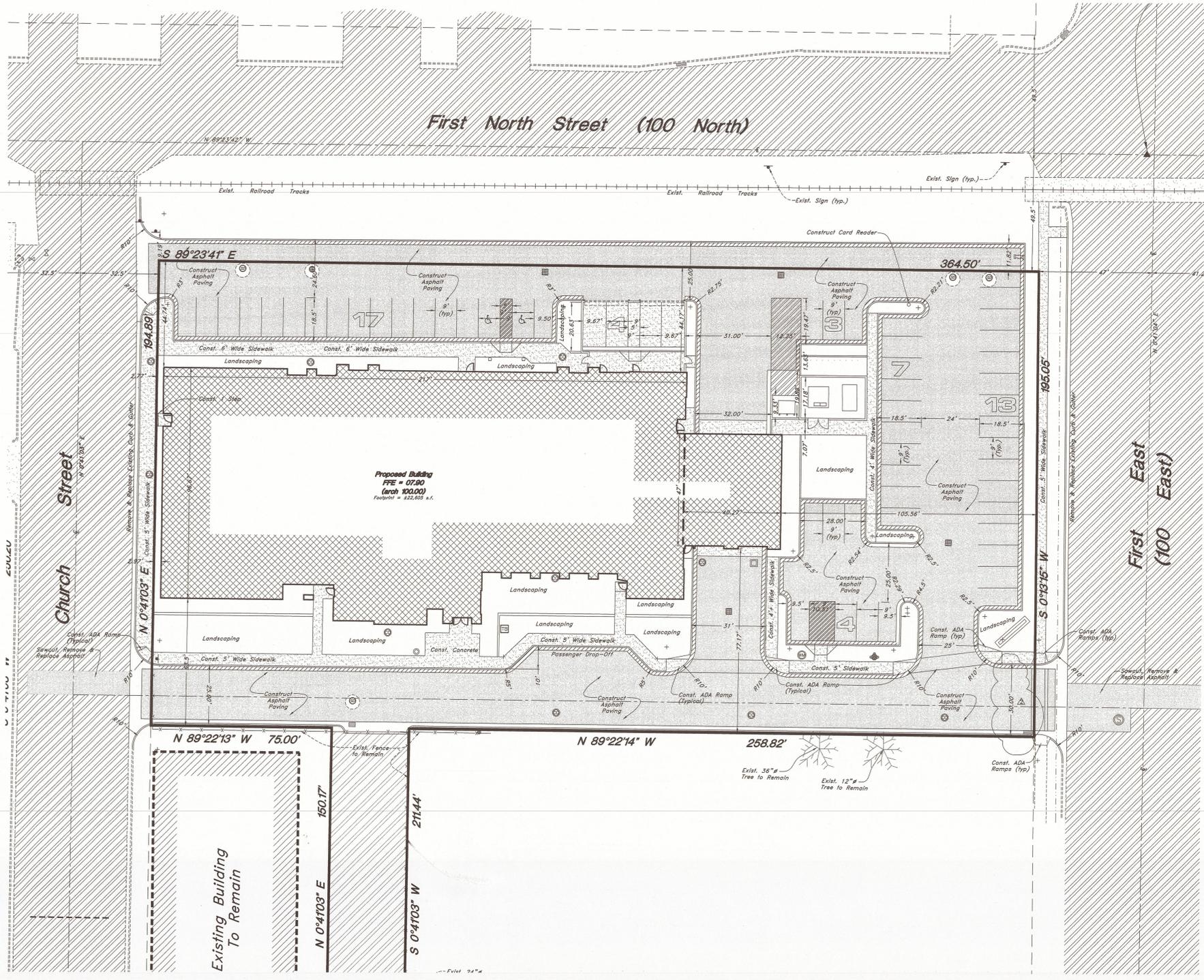
C101

ALL CONSTRUCTION TO CONFORM TO AMERICAN FORK CITY STANDARDS AND SPECIFICATIONS

- General Site Notes:**
- All Back-of-Curb Radii to be 3' Unless Otherwise Noted.
 - Stalls designated as handicap will require a painted handicap symbol. (See details)
 - Fire lane markings and signs to be installed as directed by the Fire Marshall.
 - Alisk markings, directional arrows and stop bars will be painted at each driveway as shown on the plans.
 - See Horizontal Control plan for coordinates, radii and detailed dimensions of site improvements.
 - Building sidewalks, ramps, and bollards are building contractor responsible items. See architectural plans.
 - All dimensions are to back of curb unless otherwise noted.
 - Remove and replace all concrete curb & gutter, sidewalk, drive approaches, etc. that have cracked, settled, or are otherwise deficient. Contact Sandy City Engineering Division for inspection.

CAUTION NOTICE TO CONTRACTOR
 The contractor is specifically cautioned that the location and/or elevation of existing utilities as shown on these plans are based on records of the various governmental jurisdictions and utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete. The contractor must call appropriate jurisdiction or utility company at least 48 hours before any excavation to request exact field location of utilities. It shall be the responsibility of the contractor to relocate all existing utilities which conflict with the proposed improvements shown on the plans.

PRIVATE ENGINEER'S NOTICE TO CONTRACTORS
 The Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours and that the contractor shall defend, indemnify, and hold the owner and the engineer harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting for liability arising from the sole negligence of the owner or the engineer.





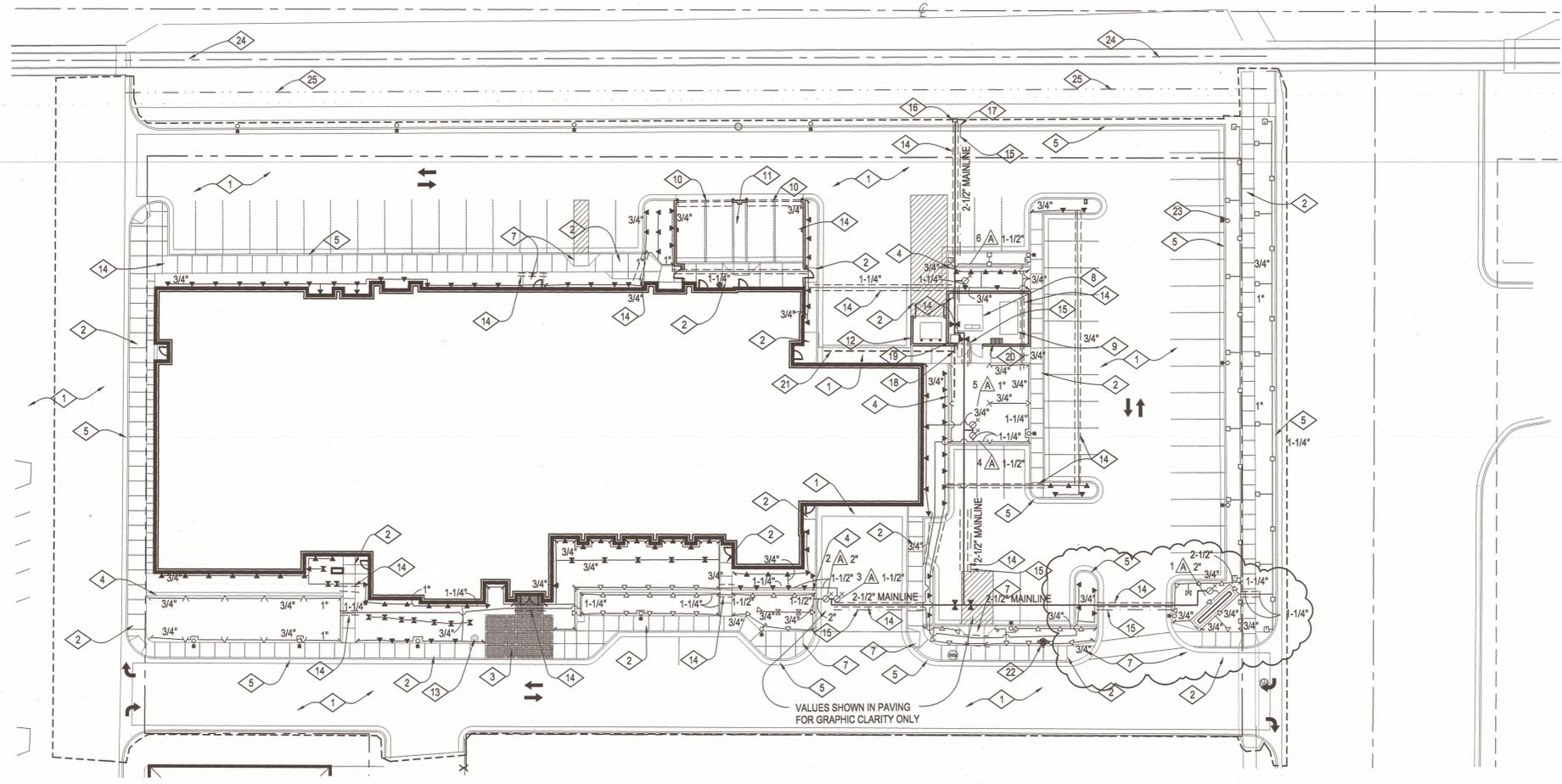
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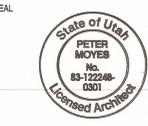
REFERENCE NOTES:

- 1 ASPHALT PAVING
- 2 CONCRETE WALK
- 3 CONCRETE PAVERS
- 4 CONCRETE MOWSTRIP
- 5 CONCRETE CURB AND GUTTER
- 6 GRAVEL PAVING
- 7 ACCESSIBLE RAMP
- 8 CONCRETE TRANSFORMER PAD
- 9 GENERATOR
- 10 COILING DOOR
- 11 SECURE PARKING
- 12 TRASH ENCLOSURE
- 13 FLAG POLE
- 14 PVC IRRIGATION SLEEVE
- 15 PVC CONDUIT
- 16 CAP MAINLINE
- 17 PROVIDE 4 EXTRA CONTROLLER WIRES TO THIS LOCATION
- 18 TIE INTO EXISTING CAPPED TEE
- 19 BACK FLOW DEVICE
- 20 CONTROLLER
- 21 EXISTING WATER LINE
- 22 FIRE HYDRANT
- 23 LIGHT POLE
- 24 CENTER LINE OF RAILROAD
- 25 LINE OF FUTURE CITY EASEMENT



LANDSCAPE IRRIGATION PLAN
 1" = 20'

AMERICAN FORK CITY
 POLICE & COURTS BUILDING
 75 NORTH CHURCH STREET
 AMERICAN FORK CITY, UTAH



DRAWN: VO
 CHECKED: RB

ISSUED:

NO.	DESCRIPTION	DATE
1	100% SCHEMATIC DESIGN	19 OCT. 2000
2	100% DESIGN DEVELOPMENT	22 DEC. 2000
3	FINAL REVIEW DOCS.	02 MAR. 2001
4	BID PACKAGE NO. 4	19 MAR. 2001
5	BID PACKAGE NO. 5	17 MAY 2001

REVISIONS:

NO.	DATE	DESCRIPTION

LANDSCAPE IRRIGATION PLAN

BID PACKAGE NO. 5
 FINISHES &
 MILLWORK

MHTN PROJECT NO.
 20199
 SHEET NUMBER

L101