

The following clarifications are provided based on questions received or changes in District requirements and must be added/considered when completing your submittal: Acknowledgement of receipt of this <u>ADDENDUM</u> is required in the proposal's cover letter of introduction. Please clearly note the addendum date and number.

ITEM:

A. CHANGES TO PROJECT MANUAL

NONE

B. CHANGES TO DRAWINGS

ITEM 1: SHEET A1.4 **REPLACE** previously issued Sheet A1.4 with **REVISED** Sheet A1.4 attached with this Addendum

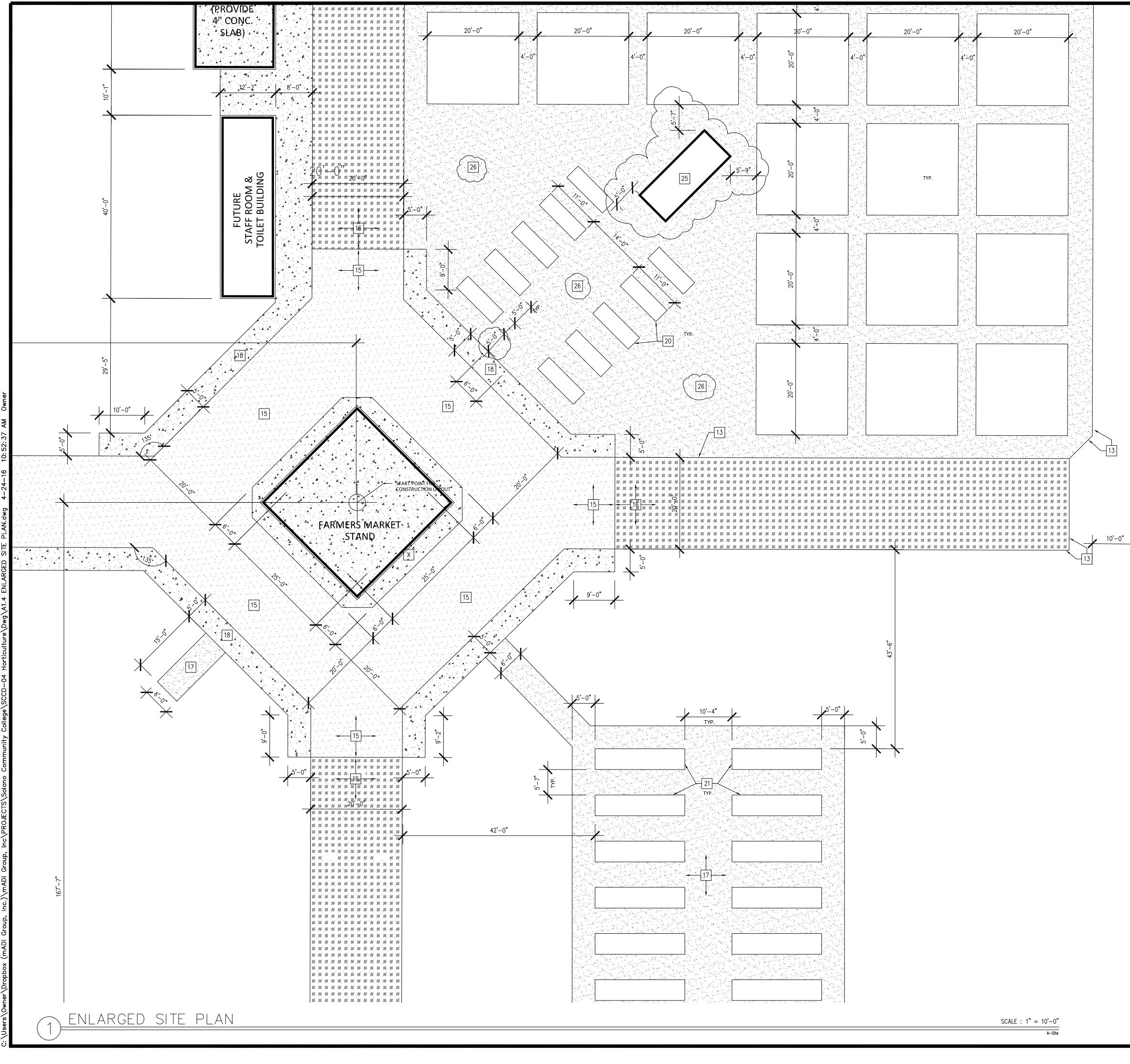
C. NEW SPECIFICATIONS

ITEM 1: SPECIFICATION SECTION 028210: CHAIN LINK FENCES AND GATES **ADD** new Specification Section 028210: Chain Link Fences and Gates to contract drawings and specifications.

D. QUESTIONS

QUESTION 1: We are planning on bidding the chain link fence and gates as a Sub-Contractor on the Horticulture Site Improvements Project at Solano Community College. Looking at the specification sections, we could not find a section for the chain link fencing. A section for Chain Link fence is Horticulture Site Improvements ADDENDUM # 02 missing. When looking at the fence details on plan sheet A1.9 there were limited specifications given. Are there fence specifications other than what is on the plan sheet A1.9? Sheet A1.9 only gives the top and brace rail OD sizes, gate post sizes and footing sizes, no grades of pipe or other fence post and fence fabric information is given. We need a fence section to be added to the specifications so that ever bidder is bidding on the same fence material and Solano Community receives the fence that it is expecting. If no specifications are to be given, please let me know and we can qualify our bid on what we intend to install or decide not to bid the project. Your help with this matter would be greatly appreciated.

RESPONSE 1: See Section C – ITEM 1 this Addendum.



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		ARCHITECT
 	1 DEMOLISH EXISTING FENCE AND/OR GATE	
1	2 EXISTING FENCE TO REMAIN	MADI
1	 3 (N) 20'-0" WIDE X 6'-0" HIGH SWING GATE; SEE 6B/A1.9 4 (N) DETECTABLE WARNING STRIPS; SEE 7&8/A1.8 	A R C H I T E C T U R E + P L A N N I N G 333 1ST STREET, SUITE C
 	5 (N) 3'-0" WIDE X 6'-0" HIGH SWING GATE; SEE 6A/A1.9	SAN FRANCISCO, CA 94105 303 POTRERO STREET, SUITE 7B SANTA CRUZ, CA 95060
 	6 (N) ACCESSIBLE PARKING; SEE 1/A1.87 (N) PARKING STRIPING	TEL: 800.725.0571
	8 (N) WHEELSTOP; SEE 9/A1.8	OWNER
 	9 (N) REMOVABLE BOLLARDS; SEE 4/A1.8	
	10 (N) SIGNAGE; SEE 10/A1.8 11 (N) SIGNAGE; SEE 11/A1.8	
 	12 (N) SIGNAGE; SEE 12/A1.8	SOLANO
	 13 (N) REDWOOD HEADER EDGE; SEE 5/A1.8 — ADDENDUM-1 14 (N) 6'-0" HIGH CHAINLINK FENCE 	<u>COMMUNITY COLLEGE</u>
	15 (N) AC PAVING	CONSULTANT
	16 (N) AB PAVING 17 (N) DG PAVING. ADDENDUM-1	
	18 (N) CONCRETE PAVING 19 NOT USED —— ADDENDUM-1	
	20 (N) 3'-6"X11'-0" PLANTERS	
	21 (N) 4'-6"X20'-0" PLANTERS	
	22 (N) 4'-0" HIGH X 5'-0" SLIDING GATE; SEE 1/A1.9. PROVIDE SIGN STATING "ENTRY CONTROLLED AND RESTRICTED BY SECURITY PERSONNEL" PER CBC 11B-404.1 EXCEPTION 1.	PROFESSIONAL STAMP:
	23 (E) DIRT	FRANCIS F.
	24 (N) SIGNAGE; SEE 3/A1.8 25 RELOCATED (E) 8'X20' STORAGE CONTAINER. CONTAINER TO BE	FRANCIS F. CHAN ★ No. C-7519 ★ 11/17
	PLACED ON 12" COMPACTED AB. STUB OUT POWER ON CONTAINER FACE. LOCATION OF POWER TO BE COORDINATED WITH DISTRICT.	11/17 RENEWAL DATE
	(N) DG PAVING TO BE INSTALLED BY DISTRICT IN THIS QUADRANT ONLY. PROVIDE AND STOCKPILE DG AT A LOCATION	CALIFU
	ON SITE. COORDINATE LOCATION WITH DISTRICT.	PROJECT:
		YARBROUGH
<u>/</u>		PLANT SCIENCE
		4000 Suisun Valley Rd, Fairfield, CA 94534 REVISIONS
		REVISIONS Image: Constraint of the section of the s
		PROJECT CODE: SCCD-04
		START DATE:
		DRAWN BY: -
		SHEET NAME:
		ENLARGED SITE
		PLAN PLAN
	ADDENDUM-2	
		SHEET NUMBER:
		(A1.4)
		© 2815

SECTION 02 82 10

CHAIN-LINK FENCES AND GATES

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. Chain-Link Fences:
 - 2. Gates: swing type.

1.3 PERFORMANCE REQUIREMENTS

- A. Structural Performance: Provide chain-link fences and gates capable of withstanding the effects of gravity loads and the following loads and stresses within limits and under conditions indicated:
 - 1. Minimum Post Size and Maximum Spacing for Wind Velocity Pressure: Determine based on mesh size and pattern specified, and on the following minimum design wind pressures and according to CLFMI WLG 2445:
 - a. Wind Speed: 70 mph.
 - b. Fence Height: 8 feet maximum.
 - 2. Determine minimum post size, group, and section according to ASTM F 1043 for framework up to 12 feet high, and post spacing not to exceed 10 feet.

1.4 SUBMITTALS

- A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for chain-link fences and gates.
 - 1. Fence and gate posts, rails, and fittings.
 - 2. Chain-link fabric, reinforcements, and attachments.
 - 3. Gates and hardware.
 - 4. Privacy slats.

B. Shop Drawings: Show locations of fences, gates, posts, rails, tension wires, details of extended posts, extension arms, gate swing, or other operation, hardware, and accessories. Indicate materials, dimensions, sizes, weights, and finishes of components. Include plans, gate elevations, sections, details of post anchorage, attachment, bracing, and other required installation and operational clearances.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: An experienced installer who has completed chain-link fences and gates similar in material, design, and extent to those indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.

1.6 PROJECT CONDITIONS

A. Field Measurements: Verify layout information for chain-link fences and gates shown on Drawings in relation to property survey and existing structures. Verify dimensions by field measurements.

PART 2 - PRODUCTS

2.1 CHAIN-LINK FENCE FABRIC

- A. General: 8 feet maximum (see Drawings). Provide fabric in one-piece heights measured between top and bottom of outer edge of selvage knuckle or twist. Comply with ASTM A 392, CLFMI CLF 2445, and requirements indicated below:
 - 1. Steel Wire Fabric: Metallic-coated wire with a diameter of 9 gage.
 - a. Mesh Size: 1-3/4 inches.
 - b. Weight of Metallic (Zinc) Coating: ASTM A 392, Type II, Class 2, 2.0 oz./sq. ft.
 - c. Coat selvage ends of fabric that is metallic coated before the weaving process with manufacturer's standard clear protective coating.
 - 2. Selvage: Knuckled at both selvages.

2.2 FENCE FRAMING

- A. Posts and Rails: Comply with ASTM F 1043 for framing, ASTM F 1083 for Group IC round pipe, and the following:
 - 1. Group: IA, round steel pipe, Schedule 40.
 - 2. Strength Requirement: Heavy industrial according to ASTM F 1043.
 - 3. Post Diameter and Thickness: According to ASTM F 1043.

- a. Top Rail: 1.66 inches.
- b. Line Post: 2.375 inches.
- c. End, Corner and Pull Post: 2.875 inches.
- d. Swing Gate Post: According to ASTM F 900 2.375-inch (60-mm) diameter, 3.11lb/ft. (4.63-kg/m) weight.
- 4. Coating for Steel Framing:
 - a. Metallic Coating:
 - 1) Type A, consisting of not less than minimum 2.0-oz./sq. ft. (0.61-kg/sq. m) average zinc coating per ASTM A 123/A 123M or 4.0-oz./sq. ft. (1.22-kg/sq. m) zinc coating per ASTM A 653/A 653M.
 - 2) Type B, zinc with organic overcoat, consisting of a minimum of 0.9 oz./sq. ft. (0.27 kg/sq. m) of zinc after welding, a chromate conversion coating, and a clear, verifiable polymer film.
 - External, Type B, zinc with organic overcoat, consisting of a minimum of 0.9 oz./sq. ft. (0.27 kg/sq. m) of zinc after welding, a chromate conversion coating, and a clear, verifiable polymer film. Internal, Type D, consisting of 81 percent, not less than 0.3-mil- (0.0076-mm-) thick, zinc pigmented coating.
 - 4) Type C, Zn-5-Al-MM alloy, consisting of not less than 1.8-oz./sq. ft. (0.55-kg/sq. m) coating.
 - 5) Coatings: Any coating above.

2.3 TENSION WIRE

- 1. Location: Extended along top and bottom of fence fabric.
- B. Metallic-Coated Steel Wire: 0.177-inch- diameter, marcelled tension wire complying with ASTM A 817, ASTM A 824, and the following:
 - 1. Metallic Coating: Type [II, zinc coated (galvanized) by hot-dip process, with the following minimum coating weight:
 - a. Matching chain-link fabric coating weight.

2.4 SWING GATES

- A. General: Comply with ASTM F 900 for swing gate types.
 - 1. Metal Pipe and Tubing: Galvanized steel. Comply with ASTM F 1043 and ASTM F 1083 for materials and protective coatings.
- B. Frames and Bracing: Fabricate members from round, galvanized steel tubing with outside dimension and weight according to ASTM F 900 and the following:
 - 1. Gate Fabric Height: 2 inches less than adjacent fence height.

- 2. Leaf Width: 36 inches, unless indicated otherwise on Drawings.
- 3. Frame Members:
 - a. Tubular Steel: 1.90 inches round.
- C. Frame Corner Construction:
 - 1. Welded and 5/16-inch-diameter, adjustable truss rods for panels 5 feet wide or wider.
- D. Hardware: Latches permitting operation from both sides of gate, hinges, and keepers for each gate leaf more than 5 feet. Fabricate latches with integral eye openings for padlocking; padlock accessible from both sides of gate.
 - 1. Padlocks will be Owner furnished.

2.5 FITTINGS

- A. General: Comply with ASTM F 626.
- B. Post and Line Caps: Provide for each post.
 - 1. Line post caps with loop to receive tension wire or top rail.
- C. Rail and Brace Ends: Attach rails securely to each gate, corner, pull, and end post.
- D. Rail Fittings: Provide the following:
 - 1. Top Rail Sleeves: Manufacturer's standard, galvanized.
 - 2. Rail Clamps: Line and corner galvanized boulevard clamps for connecting intermediate and bottom rails in the fence line-to-line posts.
- E. Tension and Brace Bands: Pressed steel.
- F. Tension Bars: Steel, length not less than 2 inches shorter than full height of chain-link fabric. Provide one bar for each gate and end post, and two for each corner and pull post, unless fabric is integrally woven into post.
- G. Truss Rod Assemblies: Steel, hot-dip galvanized after threading rod and turnbuckle or other means of adjustment.
- H. Tie Wires, Clips, and Fasteners: According to ASTM F 626.
 - 1. Standard Round Wire Ties: For attaching chain-link fabric to posts, rails, and frames, complying with the following:
 - a. Hot-Dip Galvanized Steel: 0.148-inch-diameter wire; galvanized coating thickness matching coating thickness of chain-link fence fabric.
- I. Finish:

1. Metallic Coating for Pressed Steel or Cast Iron: Not less than 1.2 oz. /sq. ft. zinc.

2.6 PRIVACY SLATS

A. Material: White color fiber-glass-reinforced plastic, UV-light stabilized, not less than 0.06 inch thick, sized to fit mesh specified for direction indicated; with vandal-resistant fasteners and lock strips.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for a verified survey of property lines and legal boundaries, site clearing, earthwork, pavement work, and other conditions affecting performance.
 - 1. Do not begin installation before final grading is completed, unless otherwise permitted by Architect.
 - 2. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Stake locations of fence lines, gates, and terminal posts. Do not exceed intervals of 500 feet or line of sight between stakes. Indicate locations of utilities, lawn sprinkler system, underground structures, benchmarks, and property monuments.

3.3 INSTALLATION, GENERAL

- A. Install chain-link fencing to comply with ASTM F 567 and more stringent requirements specified.
 - 1. Install fencing on established boundary lines inside property line.

3.4 CHAIN-LINK FENCE INSTALLATION

- A. Post Excavation: Drill or hand-excavate holes for posts to diameters and spacings indicated, in firm, undisturbed soil.
- B. Post Setting: Set posts in concrete at indicated spacing into firm, undisturbed soil.
 - 1. Verify that posts are set plumb, aligned, and at correct height and spacing, and hold in position during setting with concrete or mechanical devices.
 - 2. Concrete Fill: Place concrete around posts to dimensions indicated and vibrate or tamp for consolidation. Protect aboveground portion of posts from concrete splatter.

- a. Concealed Concrete: Top 2 inches below grade to allow covering with surface material.
- C. Terminal Posts: Locate terminal end, corner, and gate posts per ASTM F 567 and terminal pull posts at changes in horizontal or vertical alignment of 15 degrees or more.
- D. Post Bracing and Intermediate Rails: Install according to ASTM F 567, maintaining plumb position and alignment of fencing. Install braces at end and gate posts and at both sides of corner and pull posts.
 - 1. Locate horizontal braces at midheight of fabric 6 feet or higher, on fences with top rail and at 2/3 fabric height on fences without top rail. Install so posts are plumb when diagonal rod is under proper tension.
- E. Tension Wire: Install according to ASTM F 567, maintaining plumb position and alignment of fencing. Pull wire taut, without sags. Fasten fabric to tension wire with 0.120-inch diameter hog rings of same material and finish as fabric wire, spaced a maximum of 24 inches o.c. Install tension wire in locations indicated before stretching fabric.
 - 1. Top Tension Wire: Install tension wire through post cap loops.
 - 2. Bottom Tension Wire: Install tension wire within 6 inches of bottom of fabric and tie to each post with not less than same diameter and type of wire.
- F. Top Rail: Install according to ASTM F 567, maintaining plumb position and alignment of fencing. Run rail continuously through line post caps, bending to radius for curved runs and terminating into rail end attached to posts or post caps fabricated to receive rail at terminal posts. Provide expansion couplings as recommended in writing by fencing manufacturer.
- G. Bottom Rails: Install, spanning between posts.
- H. Chain-Link Fabric: Apply fabric to outside of enclosing framework. Leave 1 inch between finish grade or surface and bottom selvage, unless otherwise indicated. Pull fabric taut and tie to posts, rails, and tension wires. Anchor to framework so fabric remains under tension after pulling force is released.
- I. Tension or Stretcher Bars: Thread through fabric and secure to end, corner, pull, and gate posts with tension bands spaced not more than 15 inches o.c.
- J. Tie Wires: Use wire of proper length to firmly secure fabric to line posts and rails. Attach wire at 1 end to chain-link fabric, wrap wire around post a minimum of 180 degrees, and attach other end to chain-link fabric per ASTM F 626. Bend ends of wire to minimize hazard to individuals and clothing.
 - 1. Maximum Spacing: Tie fabric to line posts at 12 inches o.c. and to braces at 24 inches o.c.
- K. Fasteners: Install nuts for tension bands and carriage bolts on the side of the fence opposite the fabric side. Peen ends of bolts or score threads to prevent removal of nuts.

- L. Privacy Slats: Where indicated on Drawings, install slats in direction indicated, securely locked in place.
 - 1. Vertically, for privacy factor of 70 to 75.

3.5 GATE INSTALLATION

A. Install gates according to manufacturer's written instructions, level, plumb, and secure for full opening without interference. Attach fabric as for fencing. Attach hardware using tamper-resistant or concealed means. Install ground-set items in concrete for anchorage. Adjust hardware for smooth operation and lubricate where necessary.
 1. results.

3.6 ADJUSTING

A. Gate: Adjust gate to operate smoothly, easily, and quietly, free of binding, warp, excessive deflection, distortion, nonalignment, misplacement, disruption, or malfunction, throughout entire operational range. Confirm that latches and locks engage accurately and securely without forcing or binding.

END OF SECTION 02821