		SECTION 00 62 76.13 SALES TAX FORM
PART	1 – GEI	NERAL
		SUMMARY
		RELATED SPECIFICATION SECTIONS
-		TAX EXEMPT FORM
		ODUCTS – THIS SECTION NOT USED
		ECUTION – THIS SECTION NOT USED
PART	<u>1 – GE</u>	NERAL
1.1.	SUM	MARY
1.1.	A.	The City of Madison is a qualifying tax exempt entity in the State of Wisconsin.
	д. В.	The Contractor shall refer to Section 102.9 – Bidders Understanding of the City of Madison Standard
	Б.	Specifications for Public Works Construction for more information on Tax Exempt Status.
	C.	This project constructs or remodels facilities owned by the City of Madison in Madison, Wisconsin.
	с.	
1.2.	RELA	TED SPECIFICATION SECTIONS
	A.	Parts of this specification will reference articles within "The City of Madison Standard Specifications for Pub
		Works Construction".
		<ol> <li>Use the following link to access the Standard Specifications web page:</li> </ol>
		http://www.cityofmadison.com/business/pw/specs.cfm
		a. Click on the "Part" chapter identified in the specification text. For example if the specificatio
		says "Refer to City of Madison Standard Specification <b><u>2</u>10.2</b> " click the link for Part II, the Part
		PDF will open.
		b. Scroll through the index of Part II for specification 210.2 and click the text link which will take
		to the referenced text.
1.3.	τΔΧ	EXEMPT FORM
1.0.	A.	The Contractor can access Wisconsin Sales and Use Tax Exemption Certificates (form S-211, Wisconsin
		Department of Revenue) from the City of Madison Finance website.
		1. City of Madison tax exempt information and signature by Purchasing Supervisor is already complete
		2. Website: http://www.cityofmadison.com/employeenet/finance/purchasing
		a. Under the title Purchasing Forms, scroll down to the form link titled Sales Tax Exempt Form S
PART	2 – PR	<u>ODUCTS – THIS SECTION NOT USED</u>
PART	3 – EX	ECUTION – THIS SECTION NOT USED
		END OF SECTION

1. 1. 1. PART 2		NERAL		
1. 1. 1. PART 2				
1. 1. PART 2		1.1. SUMMARY		
1. PART 2	2.	RELATED REFERENCES		
PART 2		SUBMITTAL REQUIREMENTS		
	-	ODUCTS – THIS SECTION NOT USED		
PART 3		ECUTION		
3.		CONTRACTORS PROCEDURE		
3.	2.	SUBMITTAL REVIEW		
PART 1	L – GE	ENERAL		
1.1.	SUN	IMARY		
	Α.	The Contractor shall be responsible for providing submittals for review. Submittals shall include but not be		
		limited to all of the following:		
		1. Equipment specified and pre-approved in the specification; to ensure quality, construction, and		
		performance specifications have not changed since final design.		
		2. Equipment specified by performance in the specification; to ensure that the intended quality,		
		construction, and performance specified is met by the selected material or product.		
		3. Shop, piece, erection, and other such drawings as indicated in the specifications to ensure all struct		
	_	dimensional, and assembly requirements are being met.		
	В.	The submittal process shall not be used to determine alternates to specified products or equipment. All		
		considerations shall be reviewed during the bidding process and acceptable alternates shall be acknowledg		
		addendum prior to the closing of bidding. See bidding instructions for the information on submitting altern		
		for consideration.		
1.2.	DEL	ATED REFERENCES		
1.2.	A.	Section 01 29 76 Progress Payment Procedures		
	д. В.	Section 01 31 23 Project Management Web Site		
	С.	Section 01 32 19 Submittals Schedule		
	D.	Section 01 32 26 Construction Progress Reporting		
	Ε.	All Technical Specifications, contract documents, construction drawings, and any published addendums dur		
		the bidding process.		
	F.	All contract documents generated during the execution of the contract including but not limited to Request		
		Information (RFI) and Construction Bulletins (CB).		
1 2	CLID	MITTAL REQUIREMENTS		
1.3.	A.	A completed submittal shall meet the following requirements:		
	Π.	1. Digital submittal shall be original PDF of manufacturer's data sheets or high quality color scan of the		
		same.		
		a. Submittals shall not include sales fliers or other similar documents that typically do not provi		
		complete manufacturers data.		
		<ol> <li>Documents within the PDF submittal shall be printable to a sized sheet no less than 8-1/2 by 11 inch</li> </ol>		
		and no larger than 24 by 36 inches.		
	В.	A complete submittal will include all information associated with the product as presented in plans, equipmer		
		tables, and specifications. Information shall include but not be limited to the following:		
		1. Dimensional data		
		2. Performance data		
		3. Warranty information		
	C.	Provide a material sample of the vinyl coated chain link fence. Sample may be a single strand of fencing		
		approximately 6" in length showing the metal wire and vinyl coating.		
PART 2	2 – PR	RODUCTS – THIS SECTION NOT USED		
<u>. AN 2</u>	<u> </u>			
PART 3	<u>3 - EX</u>	ECUTION		

1	3.1.	CONTRACTORS PROCEDURE		
2		A. Provide digital PDF submittals to the City Project Manager for approval prior to ordering materials.		
3		1. Provide all submittals to the CPM via email.		
4		2. Compress all files. Total email attachment size shall not exceed 20 MB.		
5				
6	3.2.	SUBMITTAL REVIEW		
7		A. The CPM shall review all submittals within 10 days of receiving them and shall advise the contractor of any		
8		conflicts or corrections where materials do not meet the plans and specifications.		
9				
10				
11				
12		END OF SECTION		
13				

		SECTION 01 60 00 PRODUCT REQUIREMENTS
PART	1 – GEN	IERAL
	1.1. 9	5UMMARY
	1.2. (	QUALITY ASSURANCE
PART	2 – PRC	DUCTS – THIS SECTION NOT USED
PART	3 - EXE	CUTION
3	3.1. (	CONTRACTOR REQUIREMENTS1
PART	1 – GEI	NERAL
1.1.	SUMI	MARY
	A.	The purpose of this specification is to provide general guidelines and responsibilities related to the receiving,
		handling, and storage of all materials and products from arrival on the job site through installation.
	В.	Contractor shall be directly responsible for the receiving, handling, and storage of all materials and products
		associated with the contract.
1.2.	ΟΠΑΙ	ITY ASSURANCE
1.2.	A.	The Contractor shall be responsible for ensuring that these minimum storage and handling requirements are
		met, including but not limited to the following:
		1. Receiving deliveries of materials.
		a. Inspect all deliveries upon arrival for damage, completeness, and compliance with the
		construction documents.
		b. Begin arrangements for immediate replacement of any damaged of missing materials.
		c. Materials or equipment that have been damaged, are incomplete, or do not comply with the
		construction documents shall not be permitted to be installed.
		2. All materials and products shall be stored within the designated limits of the project site. Only store the
		amount of material necessary for upcoming operations so as not to interfere with daily operations of the
		site by the Owner.
		3. All materials and products shall be stored according the manufacturers minimum recommended
		requirements. All of the following shall be considered before storing any product or material:
		a. Dust and dirt
		b. Moisture and humidity, including rain and snow
		c. Excessive temperatures, direct sun, etc.
		d. Product or material weight and size
		e. Potential for breakage
		f. Product or material value and replacement cost
		4. The Contractor shall be responsible for providing fully functional tarps or plastic wrap, to protect
		materials and products from the weather. All coverings shall be free of large holes and tears, and shall be
		tied, strapped, or weighted down to resist blowing.
		5. The Contractor shall be responsible for securing materials and products of value.
PART	2 – PRC	DDUCTS – THIS SECTION NOT USED
DADT		
PARI	3 - EXE	CUTION
3.1.	CONT	RACTOR REQUIREMENTS
	A.	See the site plan for designated lay down space of materials by fence type. Contractor shall coordinate with
		CPM and Owner if additional space is required at least ten (10) working days prior to delivering materials.
	В.	Contractor shall be responsible for the security of all stored materials.
	C.	Contractor shall be responsible for properly protecting all materials from weather and damage until materials
		have been installed.
		END OF SECTION

1 2 2			SECTION 01 74 19 CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL			
3 4	PART 1 – GENERAL					
5	1.1. SUMMARY					
6	1.2. CITY ORDINANCES					
7	1.3. DEFINITIONS					
8	-	1.4.	PERFORMANCE REQUIREMENTS			
9	PART	2 – PF	RODUCTS – THIS SECTION NOT USED			
10	PART	3 - EX	ECUTION			
11	3	3.1.	GENERAL GUIDELINES FOR ALL WASTES			
12	3	3.2.	GUIDELINES FOR RECYCLABLE, RE-USABLE, AND SALVAGEABLE WASTE			
13	3	3.3.	GUIDELINES FOR DISPOSAL OF WASTES			
14 15	PART	1 – G	ENERAL			
16 17	1.1.	SLIN	ΛΜΑRΥ			
18	1.1.	A.	This specification includes administrative and procedural requirements for the recycling, re-use, salvaging, and			
19			disposal of non-hazardous construction and demolition waste.			
20 21		В.	The Contractor shall be fully responsible for complying with all applicable ordinances and other such regulatory requirements during the execution of this contract.			
22	1.2.					
23 24	1.2.	A.	ORDINANCES There are two (2) Madison General Ordinances (MGO) that the City of Madison has regarding construction and			
24		д.	demolition waste.			
26			1. MGO 10.185, Recycling and Reuse of Construction and Demolition Debris, describes the requirements			
27			associated with this ordinance including definitions, documentation requirements, and penalties.			
28			2. MGO 28.185, Approval of Demolition (Razing, Wrecking) and Removal, describes the requirements			
29			associated with applying for and receiving a demolition permit.			
30		В.	All City of Madison, Board of Public Works, contracts being conducted by City Engineering, Facility Management,			
31	for construction, remodeling, or demolition shall comply with the above ordinances regardless of project					
32	size.					
33						
34	1.3.		INITIONS			
35		Α.	Clean: Untreated and unpainted material, free of contamination caused by oils, solvents, caulks, and other			
36 37		В.	chemicals. Construction and Demolition Debris: Materials resulting from the construction, remodeling, repair, and			
38		ь.	demolition of utilities, structures, buildings, and roads.			
39		C.	Disposal: Off-site removal of construction and demolition debris and the subsequent sale, recycling, reuse, or			
40		с.	deposit in authorized landfill or incinerator.			
41		D.	Recyclable: The ability of a product or material to be recovered at the end of its life cycle and remanufactured			
42			into a new product.			
43		Ε.	Recycle: Any process by which construction or demolition debris is diverted from final disposal as solid waste at			
44			a permitted landfill and instead is collected, separated, and/or processed into raw materials for new, reused, or			
45			reconstituted products; or for the recovery of materials for energy production processes.			
46		F.	Recycler: Any recycling facility, transfer station, or other waste handling facility which accepts construction and			
47			demolition debris for recycling, or for other transferring to a recycling facility.			
48		G.	Recycling: The process of sorting, cleaning, treating, or reconstituting solid waste and other discarded materials			
49			for the purpose of preparing the material to be recyclable. Recycling does not include burning, incinerating or			
50 E 1		U	thermally destroying waste. Boturn: To give back reusable items or unused products to venders for credit			
51 52		H.	Return: To give back reusable items or unused products to vendors for credit.			
52 53		I. J.	Salvage: To remove a waste material from the project site for resale or reuse by the Owner or others. Trash: Any product or material unable to be re-used, returned, recycled, or salvaged.			
53 54		J. К.	Waste: Extra materials or products that have reached the end of its useful life or its intended use. Waste			
54 55		κ.	includes salvageable, returnable, recyclable and re-useable construction and demolition materials, and trash.			
55			moduce surveyedne, recurrence, recyclane and re ascance construction and acmontion matchals, and trasm.			

2	1.4.	PERF	ERFORMANCE REQUIREMENTS			
3		Α.	The Contractor shall salvage or recycle 100 percent of all uncontaminated packaging materials including but not			
4			limited to the following:			
5			1. Paper			
6			2. Cardboard			
7			3. Beverage containers			
8			4. Boxes			
9			5. Plastic Sheet and film			
10			<ol> <li>Polystyrene packaging</li> <li>Wood crates and pallets</li> </ol>			
11 12			<ol> <li>Wood crates and pallets</li> <li>Plastic pails and buckets</li> </ol>			
12		В.	Promote a resourceful use of supplies and materials through proper planning and handling. Generate the least			
14		D.	amount of waste possible by minimizing errors, poor planning, breakage, mishandling, contamination or other			
15			similar factors.			
16		C.	Use all reasonable means to divert construction waste from landfills and incinerators through recycling, reuse, or			
17		0.	salvage as appropriate.			
18						
19	PART	2 – PR(	ODUCTS – THIS SECTION NOT USED			
20						
21	PART	3 - EXE	CUTION			
22						
23	3.1.	GENE	ERAL GUIDELINES FOR ALL WASTES			
24		Α.	Recycle all paper and beverage containers used by workers, sub-contractors, suppliers and visitors to the project			
25			site.			
26		В.	All revenues, savings, rebates, tax credits, and other such incentives received from recycling, reusing, or			
27		_	salvaging waste materials shall accrue to the Contractor unless specified otherwise in the contract documents.			
28		C.	Separate recyclable, reusable, and salvageable waste from other waste materials, trash, and debris except where			
29			Waste Management Disposal Company allows comingled waste materials.			
30 31	3.2.	CUID	ELINES FOR RECYCLABLE, RE-USABLE, AND SALVAGEABLE WASTE			
32	5.2.	A.	The following guidelines is not a complete or all inclusive list.			
33		А. В.				
34			Clean Wood Materials: Including but not limited framing cutoffs wood sheathing or papeling materials			
		р.	Clean Wood Materials: Including but not limited framing cutoffs, wood sheathing or paneling materials, structural or engineered wood products and nallets or crates. Clean Wood shall be free of paints, stains, oils			
		Б.	structural or engineered wood products, and pallets or crates. Clean Wood shall be free of paints, stains, oils,			
35		D.	structural or engineered wood products, and pallets or crates. Clean Wood shall be free of paints, stains, oils, preservatives and other such contaminates.			
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35 36		В.	<ul> <li>structural or engineered wood products, and pallets or crates. Clean Wood shall be free of paints, stains, oils, preservatives and other such contaminates.</li> <li>1. Useable pieces shall be sorted by type and dimension, bundled and transported off site by the GC or returned to the supplier.</li> </ul>			
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35 36 37 38 39 40 41			<ul> <li>structural or engineered wood products, and pallets or crates. Clean Wood shall be free of paints, stains, oils, preservatives and other such contaminates.</li> <li>1. Useable pieces shall be sorted by type and dimension, bundled and transported off site by the GC or returned to the supplier.</li> <li>2. Non-useable pieces shall be palletized or containerized, transport to an authorized recycling facility.</li> <li>3. Clean, uncontaminated sawdust and wood shavings shall be bagged, transport to an authorized recycling facility.</li> <li>Metals: Sort metals by type as follows, this does not include piping:</li> <li>1. Architectural metals including but not limited to siding, soffit, and roofing panels shall be sorted by material, palletize or bundle as needed and transport to an authorized recycling facility.</li> </ul>			
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1			
2	3.3.	GUID	ELINES FOR DISPOSAL OF WASTES
3		Α.	The following guidelines shall be adjusted as needed by the methods and procedures identified in the Waste
4			Management Plan.
5		В.	Any waste that is contaminated, organic, or cannot be recycled, re-used, or salvaged shall be legally disposed of
6			in an authorized landfill or incinerator. Disposal methods shall follow all applicable regulatory requirements.
7		C.	No waste material of any kind shall be allowed to be buried on the project site at any time.
8		D.	No burning of any kind of waste material shall be permitted on this project site at any time.
9		Ε.	Treated Wood Materials: Treated wood materials including but not limited to wood that has been painted,
10			stained, or chemically treated shall not be recycled or incinerated.
11			
12			
13			
14			END OF SECTION
15			

1			SECTION 01 76 00		
2	PROTECTING INSTALLED CONSTRUCTION				
3					
4	PART 1 – GENERAL				
5	1	1.	SUMMARY1		
6	1	2.	QUALITY ASSURANCE		
7	PART	2 – PF	RODUCTS - NOT USED		
8	PART	3 - EX	ECUTION		
9	3	.1.	GENERAL EXECUTION REQUIREMENTS1		
10	3	.2.	PROTECT LANDSCAPING FEATURES		
11	3	.3.	PROTECT UTILITIES		
12	3	.4.	PROTECT PAVED AREAS		
13	Э	.5.	PARKING ACCESS AND VEHICLES		
14	3	.6.	PROTECT STORED MATERIALS		
15					
16	PART	<u>1 – G</u>	ENERAL		
17					
18	1.1.	SUN	/IMARY		
19		Α.	The purpose of this specification is to provide clear responsibilities, guide lines, and requirements related to		
20			providing protection to already installed construction.		
21		В.	Already installed construction shall include but not be limited to the following:		
22			1. Any existing site feature such as pavement, curbs, drainage features, utilities, landscaping features (trees,		
23			shrubbery, plantings, flagpoles, etc.) and other such exterior items not associated with the building		
24			whether on or adjacent to the project site.		
25			2. Any existing structure on or adjacent to the project site.		
26			3. Any existing feature of any kind within the public right-of-way that may be on the project site property,		
27			adjacent to the project site or across the street from the project site.		
28		C.	The requirements noted within this specification do not relieve any contractor of the responsibility for		
29			compliance with any code, statute, ordinance, or other such regulatory requirement having jurisdictional		
30	authority over these contract documents.		authority over these contract documents.		
31					
32	1.2.	QU	ALITY ASSURANCE		
33		Α.	It shall be the responsibility of every contractor and worker assigned to the project to be diligent in protecting all		
34			existing work, and newly installed construction.		
35		В.	It shall be the Contractors' responsibility under the contract to provide all reasonable protection methods,		
36			materials, or precautionary measures required to protect new or existing construction as described in within this		
37			specification to the project as a whole.		
38			1. The Contractor shall be responsible to ensure any damaged new or existing construction is repaired or		
39			replaced at no additional cost to the Contract.		
40					
41	PART	2 – P	RODUCTS - NOT USED		
42					
43	PART	3 - EX	(ECUTION		
44					
45	3.1.	GEN	IERAL EXECUTION REQUIREMENTS		
46		Α.	The Contractor shall be responsible for ensuring all of the following procedures and requirements are		
47			implemented as needed for the duration of the Work performed under this contract.		
48		В.	The Contractor shall also be responsible for the following:		
49			1. Reporting any incident of damage to existing property, right-of-way, or utility to the CPM immediately		
50			upon rendering the incident safe, and notifying emergency response teams, and emergency utility crews		
51			as needed.		
52			2. Conduct a site walk through prior to leaving at the end of each day to assess:		
53			a. Protection measures are properly in place, provide correction actions as necessary.		
54			b. Note damage to existing completed work and schedule repair/replacement as needed.		
55			3. Ensure all contractors and workers are being diligent in protecting existing work, and newly installed		
56			construction.		

1						
2	3.2.	PROTECT LANDSCAPING FEATURES				
3		A. Protect all existing landscaping, plants, trees, shrubs, etc. from damage during the execution of this contract.				
4		В.	B. Notify the CPM of any damaged landscaping			
5		C.	C. Replace any damaged landscaping as directed by the CPM at no additional cost to the contract.			
6						
7	3.3.	PROT	ECT UTILITIES			
8		Α.	The contractor shall be responsible for notifying all utilities to determine emergency response procedures and			
9			protection requirements prior to installing any construction protection.			
10			<ol> <li>This includes requesting utility marking through Diggers Hotline.</li> </ol>			
11			a. Call 811 or 1-800-242-8511 to request a public utility locate			
12			b. For emergency locate call (262) 432-7910 or (877) 500-9592			
13			2. Contact the Owner and CPM for any available private utility information on the property that may be			
14			available prior to calling a private utility locating company.			
15		В.	The Contractor shall take all precautions in protecting utilities including but not limited to all buried utilities and			
16			structures, power and light poles, and the backup generator (if installed prior to this contract).			
17						
18	3.4.	PROT	ECT PAVED AREAS			
19		Α.	The Contractor shall protect all paved areas (asphalt and concrete) from damage cause by any equipment, skids,			
20			pallets and stored materials.			
21			<ol> <li>Stored materials shall be stored on pallets or blocking at all times.</li> </ol>			
22			<ol><li>Stored materials shall not be of excessive weight causing deformation of paved area.</li></ol>			
23						
24	3.5.	PARKING ACCESS AND VEHICLES				
25		Α.	The Contractor shall maintain a minimum of one vehicle exit point at all times during the construction of the			
26			fence line through the parking lot.			
27		В.				
28		Representative immediately if a vehicle needs to be moved before beginning work in that area.				
29						
30	3.6.	PROTECT STORED MATERIALS				
31		Α.	All contractors shall refer to Specification 01 60 00 Product Requirements for all storage and protection			
32			requirements of building materials and products delivered to the site.			
33						
34						
35						
36			END OF SECTION			
37						

1			SECTION 32 31 13			
2	CHAIN LINK FENCES AND GATES					
3 4	PART 1 – GENERAL					
4 5	PART I – GENERAL					
6	-		FFRENCES			
7			UALITY ASSURANCE			
8			RODUCT DELIVERY, STORAGE, AND HANDLING			
9			/ARRANTY			
10			DUCTS			
11	2	.1. NI	EW FENCING PRODUCTS			
12	PART	3 - EXECI	UTION			
13	Э	.1. PF	RE-INSTALLATION			
14	Э	.2. PF	REPARATION			
15	Э	.3. IN	ISTALL POSTS			
16	Э	.4. IN	ISTALL LINE POST CAPS, TOP RAILS, AND BRACE RAILS			
17	Э	.5. IN	ISTALL FENCE FABRIC			
18	Э	.6. IN	ISTALL MISCELLANEOUS FENCE LINE COMPONENTS			
19						
20	PART	1 – GENI	ERAL			
21						
22	1.1.	SUMM				
23			This section includes specifications and installation requirements for industrial/commercial chain link fence.			
24			Work under this section includes all labor, materials, equipment and services; necessary to complete new			
25			fencing and related equipment per plans.			
26		C.	Refer to the Site Plan sheet 1 for more information on locations.			
27						
28	1.2.	REFERE				
29 30			ASTM A121: Standard Specification for Metallic-Coated Carbon Steel Barbed Wire.			
30 31			ASTM A123/A 123M: Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products. ASTM A153/A 153M: Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware.			
32			ASTM A392: Standard Specification for Zinc-Coated Steel Chain-Link Fence Fabric.			
33			ASTM AS92: Standard Specification for Aluminum-Coated Steel Chain-Link Fence Fabric.			
34			ASTM F567: Standard Practice for Installation of Chain-Link Fence.			
35						
36	1.3.	OUALI	TY ASSURANCE			
37			The Contractor shall have a minimum of 5 years experience installing similarly sized commercial perimeter			
38			security fencing and gating installations. Provide references to similar projects installed if so requested by the			
39			Owner.			
40						
41	1.4.	PRODU	JCT DELIVERY, STORAGE, AND HANDLING			
42		A.	Deliver materials with manufacturer's tags and labels intact.			
43		В.	Store all materials in a manner that keeps material clean and free of damage. See Specification Section 01 60 00			
44			Product Requirements for more information.			
45		C.	Damaged materials shall not be installed.			
46						
47	1.5.	WARR	ANTY			
48			The Contractor shall warrant for one year the complete installation of equipment and components associated			
49			with this contract and installation. Contractors warranty shall be in the form of a written letter on company			
50			letterhead referring to the contract information, dates of installation and acceptance, signed by an authorized			
51			representative of the Contractors Company.			
52			1. The Contractor warranty shall include but not be limited to the following:			
53			a. Transportation to and from the location as often as needed during the warranty period.			
54			b. All labor and materials necessary to properly and thoroughly trouble shoot the system.			
55 56			c. All fees associated with the shipping of any component that needs to be returned or supplied by			
56 57			the manufacturer for repair or replacement.			
57			d. All labor and materials required to remove, repair, replace, or re-install any component.			

		warranties/guarantees associated with installed components of the completed installation.			
PART	2 - PR(	DDUCTS			
2.1.	NE\A/	NEW FENCING PRODUCTS			
2.1.	A.	Fence Framework, all fence frame work shall be SS-40 cold formed steel pipe.			
	73.	1. Terminal Posts; All end, corner, and pull posts shall be 3" O.D., 5.7#/ft. with a minimum bending strength			
		of 486 pounds under a 6' cantilever load coated with 2.0 ounces of hot dipped zinc in accordance with			
		ASTM A123/A123M.			
		<ol> <li>Line Posts shall be C-Section roll formed from steel conforming to ASTM A1011/ A1011M, Grade 45,</li> <li>1.875" x 1.625" with minimum bending strength of 247 pounds under a 6' cantilever load, continuously</li> </ol>			
		coated with 2.0 ounces of GALFAN Alloy in accordance with ASTM A875/A875M.			
		3. Top and Brace Rails shall be roll formed section of 1.5/8" O.D., 5.7#/ft. channel shaped rail with a			
		minimum vertical bending strength of 237 pounds on a 10' span continuous coated with 2.0 ounces of			
		GALFAN Alloy in accordance with ASTM A875/A875M. Top rail couplings 6" minimum in length will be			
		spaced at maximum 21' centers.			
	В.	Chain link fabric shall be aluminized conforming to ASTM A491;			
		1. Woven from 9 gauge wire 2" x 2" mesh			
		2. Type I, 0.40 ounce per square foot of surface area			
		3. Knuckled at bottom selvage			
		4. Twisted at top selvage			
	-	5. Fabric Height = 8 feet			
	C.	Tension and Brace Bands; shall comply with ASTM F626, minimum of 3/4" wide, 12 gauge steel, galvanized. W			
	_	galvanized bolts and nuts.			
	D.	Tension Bars; shall comply with ASTM F626, galvanized steel flat bar, consisting of a single piece 7'-10" long with			
	_	a cross section of 3/4" wide by 3/16" thick.			
	Ε.	Truss Rod Assembly; shall comply with ASTM F626. 3/8" steel truss rod with a pressed steel tightener, assemble			
	-	capable of withstanding 2,000 lbs. of tension.			
	F.	Caps; shall comply with ASTM F626			
		1. Terminal Post Dome Caps; pressed steel, sized to fit Terminal Post outside diameter, galvanized after			
		fabrication.			
		2. Rail and Brace End Caps; formed steel caps, sized to fit outside diameter of pipe being capped, galvanize after fabrication.			
	_	3. Line Post Caps; formed steel caps, sized to fit outside diameter of line post, sleeved for top rail.			
	G.	Barbed Wire; shall comply with ASTM A121, double 12 gauge twisted strand wire with 4 point 14 gauge round			
		barbs spaced at 5" on center, coated the same as the chain link fabric.			
	Н.	Tension Wire; shall comply with ASTM A824, 7 gauge, coated the same as the chain link fabric.			
	I.	Tie Wires; shall comply with ASTM F626, 9 gauge steel, preformed.			
	J.	All chain link fence components to be coated in black vinyl.			
<u>PART</u>	3 - EXE	CUTION			
3.1.	PRE-	INSTALLATION			
	Α.	The Contractor shall be responsible for coordinating all pre-installation meetings with the Owner and City Proje			
		Manager prior to installing components associated with the installation of perimeter fencing as indicated in the			
		plans and specifications.			
		<ol> <li>Provide the CPM and Owner with a construction schedule prior to starting work.</li> </ol>			
	В.	Verify there are no changes to the location of the new fence.			
	C.	Verify all materials are on site, clean, undamaged, and ready for the installation.			
3.2.		ARATION			
	A.	Verify the Owner provided fence corner locations and adjust the layout as needed for post spacing.			
	В.	The Contractor shall mark positions for all line posts. Line posts shall have equal distance spacing between			
		corner parts - Spacing between line parts shall not exceed 1() teet			
	6	corner posts. Spacing between line posts shall not exceed 10 feet.			
	C.	The Contractor is responsible for an intermediate corners needed on the east chain link fence line as it meande through the trees.			

1	3.3.	INSTALL POSTS				
2		Pound posts into ground equally spaced between corner posts and turning points greater than 30 degrees with a				
3		maximum of 10'-0" on center. Posts shall be in ground a minimum of 4'-0".				
4						
5	3.4.	NSTALL LINE POST CAPS, TOP RAILS, A	AND BRACE RAILS			
6		A. Install all barbed wire line post	caps to line posts with 45 degree arm point outside of the perimeter.			
7		<ol><li>Install all top rails through line  </li></ol>	post cap sleeves.			
8		<ol> <li>Install rail caps at all terminal period</li> </ol>	ost ends of top rail.			
9		<ol><li>Install all brace rails and caps as</li></ol>	needed at terminal posts.			
10		1. Install all Truss Rod Asse	mblies.			
11						
12	3.5.	NSTALL FENCE FABRIC				
13			al posts shall be one complete piece of fabric. Weave additional rolls together to			
14		increase length or unweave par				
15			proximately 1 inch off and parallel to finished grade.			
16		•	ost with tension bar and tension bands.			
17		•	Stretch fabric tight to first line post			
18			1. Secure fabric to top rail, line post, and brace rail with wire ties, maximum of 2 feet on center.			
19			2. Tighten brace rail and truss rod assembly.			
20			een line posts to next terminal post securing with wire ties at top rails and each			
21		•	line post.			
22		Secure fabric to terminal end post with tension bar and tension bands.				
23						
24	3.6.	INSTALL MISCELLANEOUS FENCE LINE COMPONENTS				
25		A. Install all terminal post caps.	•••			
26			Install bottom tension wire and secure to fabric.			
27		<ol><li>Verify all nuts, bolts, and tensio</li></ol>	n assemblies are tight.			
28						
29						
30						
31						
32			END OF SECTION			

1 2		SECTION 32 31 29 WOOD FENCES AND GATES					
3							
4	PART 1 – GENERAL						
5	1	.1. SUMMARY	1				
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7	1	3. PRODUCT DELIVERY, STORAGE, AND HANDLING					
8	1	.4. WARRANTY	1				
9	PART 2 - PRODUCTS						
10		1.1. FENCE POSTS AND BRACKETS					
11		.2. CEDAR BOARDS					
12	-	.3. FASTENERS					
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16		3.3. INSTALL POSTS, BRACKETS, AND NAILERS					
17		A.4. INSTALL HORIZONTAL PICKETS					
18	3	9.5. INSTALL VERTICAL TRIM BOARDS	2				
19							
20	PART	<u>1 – GENERAL</u>					
21							
22	1.1.	SUMMARY					
23		A. This section includes specifications and installation requirements for horizontal picket cedar board privacy fer	ice				
24 25		and equipment screen designated as fence types 2 and 3 in the plans and details of this contract.					
25		B. Work under this section includes all labor, materials, equipment and services; necessary to complete new					
26		fencing, relocated fencing, new gate, relocated gate, new automated gate opening equipment, relocated					
27		automated gate opening equipment, traffic loops, and other related equipment per plans.					
28		C. Refer to the Site Plan sheet 1 for more information on locations.					
29 30	1.2.						
30 31	1.2.	QUALITY ASSURANCE A. The Contractor shall have a minimum of 5 years' experience installing similarly sized commercial perimeter					
32		security fencing and gating installations. Provide references to similar projects installed if so requested by the	-				
33		owner.	:				
33 34		owner.					
35	1.3.	PRODUCT DELIVERY, STORAGE, AND HANDLING					
36	1.5.	A. Deliver materials with manufacturer's tags and labels intact.					
37		<ul> <li>B. Store all materials in a manner that keeps material clean and free of damage. See Specification Section 01 60</li> </ul>	00				
38		Product Requirements for more information.	00				
39		C. Damaged materials shall not be installed.					
40							
41	1.4. WARRANTY						
42		A. The Contractor shall warrant for one year the complete installation of equipment and components associated	4				
43		with this contract and installation. Contractors warranty shall be in the form of a written letter on company	•				
44		letterhead referring to the contract information, dates of installation and acceptance, signed by an authorized	h				
45		representative of the Contractors Company.	~				
46		1. The Contractor warranty shall include but not be limited to the following:					
47		a. Transportation to and from the location as often as needed during the warranty period.					
48		b. All labor and materials necessary to properly and thoroughly trouble shoot the system.					
49		c. All fees associated with the shipping of any component that needs to be returned or supplied l	ov				
50		the manufacturer for repair or replacement.	- 1				
51		d. All labor and materials required to remove, repair, replace, or re-install any component.					
52		B. The Contractor shall also provide, separately from his/her installation warranty, all manufacturers					
53		warranties/guarantees associated with installed components of the completed installation.					
54		Tallandes buildinges associated with instance components of the completed installation.					
55	PART	2 - PRODUCTS					
56							
57	2.1.	FENCE POSTS AND BRACKETS					
57							

A. Fence Framework

58

1			1. Posts; All posts shall be Heavy 'C' open channel posts as manufactured by Gregory Fence or approved						
2			equal having the following physical properties:						
3			a. 1.7" wide x 2.25" high x 0.121" thick						
4			b. 2.78 pounds per foot						
5			c. 50,000 pound minimum yield steel per ASTM A1011						
6			d. 4 ounces of continuous zinc coating per square foot per ASTM F1043, inside and out						
7			2. Post Brackets shall be Corner, Line, or End brackets manufactured by Gregory Fence or approved equal						
8			having the following physical properties:						
9			a. 18 gauge pressed steel, zinc coated						
10			b. Adjustable, with locking fastener						
11			c. Minimum of 2 per post						
12									
13	2.2.	CEDA	AR BOARDS						
14		Α.	All cedar boards shall be dimensional clear cedar boards, smooth both sides.						
15		В.	Boards and nailers shall be free of checks, splits, warps, bows, cups, loose knots and other deformities.						
16		C.	All horizontal cedar pickets shall be 6'-0" in length for the Type 2 Privacy Fence and the Type 3 Equipment						
17			Screen.						
18		D.	Vertical trim boards shall be 6'-0" for Type 2 Privacy Fence and 8'-0" for Type 3 Equipment Screen.						
19									
20	2.3.	FASTE							
21		Α.	All wood fasteners shall be premium grade, none rusting fasteners for decks and fencing.						
22		В.	Lengths as required to penetrate nailer approximately half the board depth without splitting either board.						
23									
24	PART	3 - EXECUTION							
25									
26	3.1.	PRE-II	NSTALLATION						
27		Α.	The Contractor shall be responsible for coordinating all pre-installation meetings with the Owner and City Project						
28			Manager prior to installing components associated with the installation of perimeter fencing as indicated in the						
29			plans and specifications.						
30			<ol> <li>Provide the CPM and Owner with a construction schedule prior to starting work.</li> </ol>						
31		В.	Verify there are no changes to the location of the new fence.						
32		C.	Verify all materials are on site, clean, undamaged, and ready for the installation.						
33									
34	3.2.	PREP/	ARATION						
35		Α.	Verify the Owner provided fence corner locations and adjust the layout as needed for post spacing.						
36		В.	The Contractor shall mark positions for all line posts. Line posts shall have equal distance spacing between						
37			corner posts. Spacing between line posts shall not exceed 6 feet except where noted in the plans otherwise.						
38									
39	3.3.	INSTA	INSTALL POSTS, BRACKETS, AND NAILERS						
40		Α.	Pound metal 'C' posts into ground at 6'-0" on center.						
41			<ol> <li>Posts shall be in ground a minimum of 4'-0".</li> </ol>						
42			<ol> <li>Posts shall be 6'-0" above grade at center of post.</li> </ol>						
43		В.	Install post brackets at top and bottom of posts.						
44		C.	Install vertical nailer board on each side of each post. Trim as needed for angles.						
45		D.	Install grade nailer board at +/- 2" above grade between posts where fence line is on a slope.						
46									
47	3.4.	INSTA	LL HORIZONTAL PICKETS						
48		Α.	Install horizontal pickets from top of fence post down.						
49			1. Provide 0-1/2" spacing between boards.						
50			2. No fence Type 2 Privacy Fence shall exceed 6'-0" above grade at any post.						
51			3. No fence Type 3 Equipment Screen shall exceed 8'-0" above grade at any post.						
52		В.	Fence shall step vertically as needed for slope.						
53			1. All boards shall remain horizontal.						
54			2. All steps shall be full 1x6 boards with 0-1/2" spacing						
55			3. Trim bottom board for grade as needed.						
56									
57	3.5.	INSTA	LL VERTICAL TRIM BOARDS						
58		Α.	Install vertical trim boards on both sides of all posts per details.						

1	1.	Bevel cut edges for clean butt joint at 135-degree corner per detail
2	2.	Cut Type 2 Privacy Fence trim boards as needed to match grade minus +/-2".
3	3.	Cut Type 3 Equipment Screen trim boards as needed to match grade minus +/-2".
4		
5		
6		
7		END OF SECTION