

Specifications for 115 kV Pole Inspection And Preservation Services

Bid Opening – 2:00, December 15, 2021

City of Grand Island 100 East 1st St. P.O. Box 1968 Grand Island, NE 68801

Contact
City of Grand Island – Utilities Department

Travis Burdett, Assistant Utilities Director

Date Issued: November 16, 2021

SECTION A ADVERTISEMENT FOR BIDS

ADVERTISEMENT TO BIDDERS FOR 115 KV POLE INSPECTION AND PRESERVATION SERVICES FOR CITY OF GRAND ISLAND, NEBRASKA

Sealed bids will be received at the office of the City Clerk, 100 E. First Street, P.O. Box 1968, Grand Island, Nebraska 68802, until Wednesday, December 15, 2021 at 2:00 p.m. local time for 115 kV Pole Inspection and Preservation Services. Bids will be publicly opened at this time in the Grand Island City Hall Council Conference Room #1 located on 1st floor of City Hall. Submit an original and three copies if submitting by mail. Bid proposal package and any Addendas are also available on-line at www.grand-island.com/business/bids-and-request-for-proposals/bid-calendar and through www.grand-island.com/business/bids-and-request-for-proposals/bid-calendar and through www.guestcdn.com. Bids received after the specified time will be returned unopened to sender.

The successful bidder will be required to comply with fair labor standards as required by Nebraska R.R.S.73-102 and comply with Nebraska R.R.S. 48-657 pertaining to contributions to the Unemployment Compensation Fund of the State of Nebraska. Successful bidder shall maintain a drug free workplace policy. Every public contractor and his, her or its subcontractors who are awarded a contract by the City for the physical performance of services within the State of Nebraska shall register with and use a federal immigration verification system to determine the work eligibility status of new employees physically performing services within the State of Nebraska.

Each bidder shall submit with the bid a certified check, a cashiers check, or bid bond payable to the City Treasurer in an amount no less than five percent (5%) of the bid price which shall guarantee good faith on the part of the bidder and the entering into a contract within fifteen (15) days at the bid price if accepted by the City. Your certified check, cashier's check or bid bond must be submitted in a separate envelope attached to the outside of the envelope containing the bid. Each envelope must be clearly marked indicating its contents. Failure to submit the necessary qualifying information and correct number of copies in clearly marked and separate envelopes will result in your bid not being opened or considered. Only surety companies authorized to do business in the State of Nebraska may issue bid bonds.

Bids will be evaluated by the Purchaser based on price, schedule, quality, adherence to schedule, plan and specifications, economy and efficiency of operation, experience and reputation of the bidder, ability, capacity, and skill of the bidder to perform contract required and adaptability of the particular items to the specific use intended.

The Purchaser reserves the right to reject any or all bids, to waive irregularities therein, and to accept whichever bid that may be in the best interest of the City, at its sole discretion.

No bidder may withdraw his/her bid for a period of thirty (30) days after date of bid opening.

RaNae Edwards, City Clerk

SECTION B INSTRUCTIONS TO BIDDERS

CITY OF GRAND ISLAND, NEBRASKA INSTRUCTIONS TO BIDDERS

EXCEPTIONS TO SPECIFICATIONS: Each bidder shall carefully check all requirements herein set forth and shall offer items which fully comply with these requirements or shall plainly set forth all points, features, conditions, specifications, etc., wherein their items offered do not meet these specifications. Such exceptions as are made shall be listed by page number in the blanks provided in the Contractor's Bid Form and shall be marked in ink on the pages of these specifications. If additional space is required for exception explanation, please reference and attach a letter to bid. Reference shall not be made to other attachments for exceptions and supplementary terms. Failure to outline such exceptions as specifically stated herein will require the successful bidder to comply with these specifications. In case of conflict between the bid and these specifications, these specifications shall govern unless specific exceptions are listed by the bidder. Exceptions must be noted on the bid form.

SUBMISSION OF BIDS: All bids shall be submitted using the City's bid form. Bids shall be addressed to the City Clerk and plainly marked, "115kV Pole Inspection and Preservation Services".

INSURANCE COVERAGE: The Contractor shall purchase and maintain at their expense as a minimum insurance coverage of such types and in such amounts as are specified herein to protect Contractor and the interest of Owner and others from claims which may arise out of or result from Contractor's operations under the Contract Documents, whether such operations be by Contractor or by any subcontractor or anyone directly or indirectly employed by any of them or for whose acts any of them may be legally liable. Failure of Contractor to maintain proper insurance coverage shall not relieve them of any contractual responsibility or obligation.

BASE BID: The bidder is expected to base their bids on materials and items complying fully with these specifications. In the event they name in their bid materials or items which do not conform, they will be responsible for furnishing materials and items which fully conform at no change in the bid price.

ALTERNATE BIDS: It is the desire of the Owner that the bidder base their bid price for this project on the written specifications. If an alternate bid or bids are submitted by a bidder, it is desired that they first submit a bid price as above described and then describe the alternate bid. Failure to do so may be reason for not extending any consideration to alternate bids.

BIDDER QUALIFICATION: Bids will be received only from qualified bidders. A bidder will be considered qualified if they are a recognized electric utility contractor and have experience in the construction of projects of equal or greater size than that specified herein. If requested, the bidder shall supply experience data. Such data will be used to assist in determining the qualifications of the bidder. Bidder must comply with all applicable Federal, State and Local rules and regulations.

CHECKS OR BID BONDS: Checks or bid bonds of the unsuccessful bidders will be returned when their bids have been rejected and not to exceed sixty (60) days from the date bids are opened. All bids shall remain in force for this 60-day period. The check or bid bond of the successful bidder will be returned when the Contracts are signed by both parties and necessary bonds supplied. Should the Purchaser make an award to a bidder who refuses to enter into Contract and furnish the required bonds within twenty (20) days after notification of acceptance, then the bid security which has been deposited with the Purchaser will be forfeited to the Purchaser as liquidated damages.

PERFORMANCE BOND: On award of the Contract, the successful Contractor shall furnish a Performance Bond which shall be in an amount equal to the full Contract price, guaranteeing faithful compliance with all requirements of the Contract Documents and complete fulfillment of the Contract, and payment of all labor, material and other bills incurred in carrying out this Contract. According to Nebraska Law, the surety company executing the Performance Bond must be authorized to do business in the State of Nebraska.

PAYMENT BOND: On award of the Contract, the successful Contractor shall furnish a Payment Bond which shall be in an amount equal to the full Contract price, guaranteeing protection of all persons supplying labor and materials to the Contractor or its subcontractors for the performance of the work provided for in the Contract. In accordance with Nebraska Law, the surety company executing the Payment Bond must be authorized to do business in the State of Nebraska.

TAXES: The City Utilities Department pays sales tax amounting to 5.5% State and 2.0% City; payment of 7.5% sales tax must be in the Contractor's bid. Contractor must pay any other tax which might be applicable.

REQUESTS FOR PAYMENT: The City of Grand Island will make payments only after approval at regularly scheduled City Council meetings. These meetings typically occur the second and fourth Tuesday each month. Requests for payment must be received no less than ten (10) working days prior to the designated meeting to allow time for proper review and consideration. Payments will only be made after final completion of the project to City's satisfaction unless otherwise stated in bidding documents.

REQUEST FOR INTERPRETATION: If any person contemplating submitting a bid for this Contract is in doubt as to the true meaning of any part of the specifications or other proposed Contract documents, they may submit to the Purchasing Department a written request for an interpretation thereof. The person submitting the request will be responsible for its prompt delivery. Any interpretation of the proposed documents will be made only by addendum duly issued and/or delivered to each person receiving a set of such documents. The addenda upon closing shall become a part of the Contract. The City will not be responsible for any other explanation or interpretation of the proposed documents.

ADDENDA: Any addendum to the specifications issued during the time allowed for preparation of bids shall be covered in the bid and shall become a part of the specifications. One copy of each addendum issued before the date of the letting will be sent to all bidders. One signed copy is to be returned immediately to the sender as acknowledgment of receipt.

TIME OF COMPLETION: Time of completion is the essence of this Contract, and all work shall be completed no later than May 15, 2022.

MODIFICATION OF BIDS: Bids may be modified or withdrawn by an appropriate document duly executed in the manner that a bid must be executed and delivered to the place where bids are to be submitted at any time prior to the final time set for receiving bids. Bidders may modify or withdraw bids by Fax communication at any time prior to the time set for receiving bids provided this instruction is positively identified. Any Fax modification should not reveal the amended bid price but should provide only the addition, subtraction or other modifications. A duly-executed document confirming the Fax modification shall be submitted within three (3) days after bids are opened.

BID DATA: Bidders shall submit bid documents and data by filling in the document and data sheets supplied by the Purchasing Department. The bid sheets shall be filled out legibly in <u>ink</u> to permit reproduction.

BIDDER SECURITY: Bidder security shall be enclosed in a separate envelope marked, "BIDDER SECURITY / BID FOR 115kV Pole Inspection and Preservation Services" the envelope shall contain only a cashier's check, certified check or bidder's bond.

This separate envelope shall be attached to a sealed envelope containing the bid and any other bid materials. This second envelope shall be marked "BID FOR 115kV Pole Inspection and Preservation Services" and be addressed to the "City Clerk." Bids of an incomplete nature or subject to multiple interpretations may, at the option of the Purchaser, be rejected as being irregular.

FINANCIAL STATEMENT: The bidder shall furnish upon request a complete financial statement signed by the bidder, if an individual, by all partners if the bidder is a partnership or, by the President or Secretary, if the bidder is a corporation.

EQUAL EMPLOYMENT OPPORTUNITY: The Contractor agrees that during the performance of this Contract not to discriminate in hiring or any other employment practice on the basis of race, color, religion, sex, disability, age or national origin, and to comply with Executive Order 11,246 of September 24, 1965, and the rules, regulations and relevant orders of the Secretary of Labor, and Chapter 20 of the Reissue Revised Statutes of the State of Nebraska.

GRATUTITIES AND KICKBACKS: City Code states that it is unethical for any person to offer, give, or agree to give any City employee or former City employee, or for any City employee or former City employee to solicit, demand, accept, or agree to accept from another person, a gratuity or an offer of employment in connection with any decision, approval, disapproval, recommendation, or preparation of any part of a program requirement or a purchase request, influencing the content of any specification or procurement standard, rendering of advice, investigation, auditing, or in

any other advisory capacity in any proceeding or application, request for ruling, determination, claim or controversy, or other particular matter, pertaining to any program requirement or a contract or subcontract, or to any solicitation or proposal therefore. It shall be unethical for any payment, gratuity, or offer of employment to be made by or on behalf of a subcontractor under a contract to the prime contractor or higher tier subcontractor or any person associated there within, as an inducement for the award of a subcontract or order.

LOCAL CONDITIONS: Each bidder shall have an authorized representative visit the site of the work and thoroughly inform themselves of all conditions and factors which would affect the work and the cost thereof, including the arrangement and conditions of existing or proposed structures affecting or affected by the proposed work; the procedure necessary for maintenance of uninterrupted operation; the availability and cost of labor and facilities for transportation, handling, and storage of materials and equipment.

It must be understood and agreed that all such factors have been investigated and considered in the preparation of every bid submitted. No claims for financial adjustment to any Contract awarded for the work under these Specifications and documents will be permitted by the City, which are based on lack of such prior information or its effect on the cost of the work.

CORRESPONDENCE: Correspondence regarding drawings, instruction manuals, and other engineering data shall be sent to:

Attn: Travis Burdett City of Grand Island Utility Department P.O. Box 1968 Grand Island, NE 68802-1968 (308) 385-5466

LOCAL BIDDER PREFERENCE: In case of tied low bids, all other things being equal, preference shall be given in the following order:

- 1. To those bidders who manufacture their products within the limits of the City of Grand Island.
- 2. To those bidders who manufacture their products within the limits of the County of Hall.
- 3. To those bidders who package, process, or through some other substantial operation have employees and facilities for these purposes in the City of Grand Island.
- 4. To those bidders who package, process, or through some other substantial operation have employees and facilities for these purposes in the County of Hall.
- 5. To those bidders who maintain a bona fide business office in the City of Grand Island, whose products may be made outside the confines of the City of Grand Island.
- 6. To those bidders who maintain a bona fide business office in the County of Hall, whose products may be made outside the confines of the County of Hall.
- 7. To those bidders whose commodities are manufactured, mined, produced, or grown within the state of Nebraska and to all firms, corporations, or individuals doing business as Nebraska firms, corporations or individuals, when quality is equal or better and delivered price is the same or less than the other bids received.
- 8. To those bidders whose commodities are manufactured, mined, produced, or grown within the United States of America and to all firms, corporations, or individuals doing business as firms registered in states other than Nebraska when quality is equal or better and delivered price is the same or less than the other bids received.

SECTION C CONTRACTOR'S BID FORM

CONTRACTOR'S BID

115 KV POLE INSPECTION AND PRESERVATION SERVICES FOR CITY OF GRAND ISLAND, NEBRASKA

TO THE MEMBERS OF THE COUNCIL CITY OF GRAND ISLAND GRAND ISLAND, NEBRASKA

THE UNDERSIGNED BIDDER, having examined the plans, specifications, general and special conditions, other proposed Contract documents, all addenda thereto and being acquainted with and fully understanding (a) the extent and character of the work covered by this bid, (b) the location, arrangement and specified requirements for the proposed work, (c) the location, character and condition of existing streets, roads, highways, railroads, pavements, surfacing, walks, driveways, curbs, gutters, trees, sewers, utilities, drainage courses and structures and other installations, both surface and underground, which may affect or be affected by the proposed work, (d) the nature and extent of the excavations to be made and the handling and rehandling requirements, including the possible constraints of dewatering due to ground water, (f) the difficulties and hazards to the work which might be caused by storm and flood water, delivery facilities, and (h) all other factors and conditions affecting or which may be affected by the work,

HEREBY PROPOSES to furnish all required materials, supplies, equipment, tools and plant, to perform all necessary labor and supervision, and to construct, install, erect, equip and complete all work stipulated in, required by and in accordance with the Contract documents and the plans, specifications and other documents referred to therein (as altered, amended or modified by all addenda thereto) for;

IN CONSIDERATION OF THE FOLLOWING UNIT PRICES. These prices shall be used to adjust the bid price in the event the specifications or plans and drawings are altered or changed by the City due to unforeseen conditions. These prices will be used as the established price for any additions or deductions to the contract work. Unit prices shall include all materials, supplies, equipment, labor, and taxes necessary to furnish and install the unit complete. **The contractor will be paid on the basis of actual quantity times unit price:**

TOTAL BID FOR 115 KV POLE INSPECTION AND PRESERVATION SERVICES

(must equal total sum of items 1 through 9)

	(Words)			(Figures)
<u>ITEM</u>	DESCRIPTION	ESTIMATED QUANTITY	UNIT PRICE	TOTAL PRICE
1	Above Ground Inspection, Sounding, Boring, Attachment Inspection, Information Verification, and Collection per Wood Pole		\$	\$
2	Above Ground Inspection, Attachment Inspection, Information Verification, and Collection per Steel (Metal) Pole/Structure		\$	\$
3	Treatment of Interior Wood Voids per Pole		\$	\$

Φ

4	Interior Wood Fumigation per Pole	;	\$	\$
5	Treatment of Wood Exterior and		\$	
6	Wrapping per Pole Coating application per Steel (Met	al)		
_	Pole/Structure	,	\$	\$
7	Purchase and Disposal of Fill Dirt Pole	per	\$	\$
8	Miscellaneous Cost per Pole with		\$ \$	\$ \$
9	Repair of grounding per Pole (80 t	otal)	\$	
CO	MPLETION DATE: If awarded under the t	terms of these Con	itract documents i	the undersigned
	der agrees to complete all work, including r			-
	, , ,	, , <u></u>		
1 1 1 3 3	set forth and shall offer items which fully co all points, features, conditions, specification these specifications. Such exceptions as following blanks and shall be marked in ink be explained in detail in a letter accomparattachments for exceptions and supplementations of conflict between the bid and these specific exceptions are listed by the Bidder	ns, etc., wherein the sare made shall on the pages of the paying the bid. Referentary terms. Fail occessful Bidder to opecifications, these r.	Bidder's items offer be listed by page se specifications. Berence shall not be ure to outline such comply with these se specifications shall be specifications.	ered do not meet e number in the Exceptions shall e made to other n exceptions as pecifications. In all govern unless
	Exceptions to specifications, pages:			
1	SALES TAX: The Grand Island Utilities required to pay City sales tax (which at pres 5.5%). Therefore, all sales taxes relative to of the Contract price. If Bidder fails to incluvill add a 7.5 % figure to the bid price for actual sales tax due.	sent is 2.0%) and S the water main sha ude all applicable s evaluation purpose	State sales tax (wh all be paid by the C sales tax in their bi es; however, the C	ich at present is ontractor as part d price, the City City will only pay
	According to Nebraska Sales and Use Ta which option you have selected to file with			
	Option 1 (Section 1-017.05) Option 2 (Section 1-017.06) Option 3 (Section 1.017.07)	_		
 	The choice of option is made by comple Nebraska Sales and Use Tax Election for months after beginning to operate as a Co treated as a retailer under Option 1 for sale	Contractors. This ntractor. If this form	form must be filed n is not filed, the C	within three (3)
	The bidder shall provide the following break Grand Island Finance Department:	down of the water	main bid informatio	on for use by the
	Sub-total for Sales Tax:	\$		
	Sub-total for Materials Cost:	\$		

Sub-total for Services Cost (Labor and Incidental Services Rendered) TOTAL Total of above items must equal Total E	\$	
EXPERIENCE DATA: Each Bidder shall supply the	following data on their exp	erience:
Project Owner/Contact/Phone No. Project	ect Location	Completion Date
1. 2.		
3.		
Additional Data:		
INSURANCE: Bidder acknowledges that bid inclured requirements.	ides compliance with the a	attached insurance
SITE VISIT: Authorized Representative	Date:	
ADDENDA : Bidder acknowledges that Addenda Nu considered in bid preparation.	mber(s)	were received and
The undersigned Bidder agrees to furnish the require (20) days after acceptance of this bid, and further foregoing bid in accordance with specified requirer Certificate of Insurance and bonds (when require executed, and the Notice to Proceed is issued.	agrees to complete all wo ments. No work shall co i	ork covered by the mmence until the
Enclosed herewith is the required bid guarantee in the	ne amount of	
Doll. which the undersigned Bidder agrees is to be forfei Grand Island, Nebraska, as liquidated damages shawarded to them and fail to enter into a contract in the bond within twenty 20 days, but otherwise the afore signing the contract and delivering the approved bore.	nould this bid be accepted he form prescribed and to f said bid guarantee will be r	and a contract be urnish the required

It is understood and agreed that time is the essence of the Contract.

In submitting this bid, it is understood that the right is reserved by the City to reject any and all bids; to waive irregularities therein and to accept whichever bid that may be in the best interest of the City. It is understood that this bid may not be withdrawn until after sixty (60) days from bid opening.

In submitting this bid, the Bidder states that Bidder fully complies with, and will continue to comply with, applicable State fair labor standards as required by section 73-102 RRS, 1943 and also complies with, and will continue to comply with, section 48-657 RRS, 1943 pertaining to contributions to the Unemployment Compensation Fund of the State of Nebraska.

The undersigned Bidder hereby certifies (a) that this bid is genuine and is not made in the interest of or in the behalf of any undisclosed person, firm or corporation, and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation, (b) that Bidder has not directly or indirectly induced or solicited any person, firm or corporation to refrain from bidding, (c) that Bidder has not sought, by collusion or otherwise, to obtain for themselves an advantage over any other Bidder or over the City of Grand Island, and (d) that Bidder has not directly or indirectly induced or solicited any other Bidder to put in a false or sham bid.

DATED	
SIGNATURE OF BIDDER:	
If an Individual:	doing business
as	
If a Partnership	
by	, member of firm.
If a Corporation:	
by	(Seal)
Title	
BUSINESS ADDRESS OF BIDDER	
TELEPHONE NUMBER OF BIDDER	
FAX NUMBER OF BIDDER	
E-MAIL ADDRESS OF BIDDER	

SECTION D

MINIMUM INSURANCE REQUIREMENTS

MINIMUM INSURANCE REQUIREMENTS

CITY OF GRAND ISLAND, NEBRASKA

The Contractor shall purchase and maintain at their expense as a minimum insurance coverage of such types and in such amounts as are specified herein to protect Contractor and the interest of Owner and others from claims which may arise out of or result from Contractor's operations under the Contract Documents, whether such operations be by Contractor or by any subcontractor or anyone directly or indirectly employed by any of them or for whose acts any of them may be legally liable. Failure of Contractor to maintain proper insurance coverage shall not relieve him of any contractual responsibility or obligation.

1. WORKERS COMPENSATION AND EMPLOYER'S LIABILITY

This insurance shall protect the Bidder against all claims under applicable State workers compensation laws. This insurance shall provide coverage in every state in which work for this project might be conducted. The liability limits shall not be less than the following:

Workers Compensation **Employers Liability** \$100,000 each employee \$500,000 policy limit

Statutory Limits \$100,000 each accident

2. BUSINESS AUTOMOBILE LIABILITY

This insurance shall be written in comprehensive form and shall protect the Bidder, Bidder's employees, or subcontractors from claims due to the ownership, maintenance, or use of a motor vehicle. The liability limits shall be not less than the following:

Bodily Injury & Property Damage

\$ 500,000 Combined Single Limit

3. COMPREHENSIVE GENERAL LIABILITY

The comprehensive general liability coverage shall contain no exclusion relative to explosion, collapse, or underground property. The liability limits shall be not less than the following:

Bodily Injury & Property Damage \$ 500,000 each occurrence \$1,000,000 aggregate

4. UMBRELLA LIABILITY INSURANCE

This insurance shall protect the Bidder against claims in excess of the limits provided under employer's liability, comprehensive automobile liability, and commercial general liability policies. The umbrella policy shall follow the form of the primary insurance, including the application of the primary limits. The liability limits shall not be less than the following:

5. ADDITIONAL REQUIREMENTS

The City may require insurance covering a Bidder or subcontractor more or less than the standard requirements set forth herein depending upon the character and extent of the work to be performed by such Bidder or subcontractor.

Insurance as herein required shall be maintained in force until the City releases the Bidder of all obligations under the Contract.

The Bidder shall provide and carry any additional insurance as may be required by special provisions of these specifications.

6. CERTIFICATE OF INSURANCE

Satisfactory certificates of insurance shall be filed with the City prior to starting any work on this Contract. The certificates shall show the City as an additional insured on all coverage except Workers Compensation. The certificate shall state that thirty (30) days written notice shall be given to the City before any policy is cancelled (strike the "endeavor to" wording often shown on certificate forms). If the bidder cannot have the "endeavor to" language stricken, the bidder may elect to provide a new certificate of insurance every 30 days during the contract. Bidder shall immediately notify the City if there is any reduction of coverage because of revised limits or claims paid which affect the aggregate of any policy.

SECTION E CONTRACT AGREEMENT

CONTRACT AGREEMENT

THIS AGREEMENT made and entered into by and between	
hereinafter called the Contractor, and the City of Grand Island, Nebraska, hereinafter called the City.	

WITNESSETH:

THAT, WHEREAS, in accordance with law, the City has caused contract documents to be prepared and an advertisement calling for bids to be published, for 115kV Pole Inspection and Preservation Services; and

WHEREAS, the City, in the manner prescribed by law, has publicly opened, examined, and canvassed the bids submitted, and has determined the aforesaid Contractor to be the lowest responsive and responsible bidder, and has duly awarded to the said Contractor a contract therefore, for the sum or sums named in the Contractor's bid, a copy thereof being attached to and made a part of this contract;

NOW, THEREFORE, in consideration of the compensation to be paid to the Contractor and of the mutual agreements herein contained, the parties have agreed and hereby agree, the City for itself and its successors, and the Contractor for itself, himself, or themselves, and its, his, or their successors, as follows:

ARTICLE I. That the Contractor shall (a) furnish all tools, equipment, superintendence, transportation, and other construction materials, services and facilities; (b) furnish, as agent for the City, all materials, supplies and equipment specified and required to be incorporated in and form a permanent part of the completed work; (c) provide and perform all necessary labor; and (d) in a good substantial and workmanlike manner and in accordance with the requirements, stipulations, provisions, and conditions of the contract documents as listed in the attached General Specifications, said documents forming the contract and being as fully a part thereof as if repeated verbatim herein, perform, execute, construct and complete all work included in and covered by the City's official award of this contract to the said Contractor, such award being based on the acceptance by the City of the Contractor's bid;

ARTICLE II. That the City shall pay to the contractor for the performance of the work embraced	in this contract and the
contractor will accept as full compensation therefore the sum (subject to adjustment as provide	led by the contract) of
	Dollars

for all services, materials, and work covered by and included in the contract award and designated in the foregoing Article I; payments thereof to be made in cash or its equivalent in the manner provided in the General Specifications.

ARTICLE III. The contractor hereby agrees to act as agent for the City in purchasing materials and supplies for the City for this project. The City shall be obligated to the vendor of the materials and supplies for the purchase price, but the contractor shall handle all payments hereunder on behalf of the City. The vendor shall make demand or claim for payment of the purchase price from the City by submitting an invoice to the contractor. Title to all materials and supplies purchased hereunder shall vest in the City directly from the vendor. Regardless of the method of payment, title shall vest immediately in the City. The contractor shall not acquire title to any materials and supplies incorporated into the project. All invoices shall bear the contractor's name as agent for the City. This paragraph will apply only to these materials and supplies actually incorporated into and becoming a part of the finished product of 115kV Pole Inspection and Preservation Services.

<u>ARTICLE IV.</u> That the contractor shall start work as soon as possible after the contract is signed and the required bonds and insurance are approved, and that the Contractor shall complete the work on or before <u>May 15, 2022</u>. It is understood and agreed that time is the essence of the contract.

CONTRACT AGREEMENT (Continued)

ARTICLE V. The Contractor agrees to comply with all applicable State fair labor standards in the execution of this contract as required by Section 73-102, R.R.S. 1943. The Contractor further agrees to comply with the provisions of Section 48-657, R.R.S. 1943, pertaining to contributions to the Unemployment Compensation Fund of the State of Nebraska. During the performance of this contract, the contractor and all subcontractors agree not to discriminate in hiring or any other employment practice on the basis of race, color, religion, sex, national origin, age or disability. The Contractor agrees to comply with all applicable Local, State and Federal rules and regulations.

IN WITNESS WHEREOF, the parties hereto ha	we executed this Contract Agreement.
Contractor	
Ву	Date
Title	
CITY OF GRAND ISLAND, NEBRASKA, By Mayor	
Attest:City Clerk	
The contract, insurance, and any required bonds	are in due form according to law and are hereby approved
	Date
Attorney for the City	

SECTION F DETAILED SPECIFICATIONS

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DETAILED SPECIFICATIONS

1.0 INTRODUCTION

The City of Grand Island is requesting bids to perform inspection of all poles, testing and repair of pole grounds, and preservation treatment of wood poles, on the 115 kV transmission lines of the City electric system. This encompasses the 1093 tie line extending from Substation E to Nebraska Public Power District's (NPPD) Grand Island Substation, the 1145A and 1145B NPPD tie lines to the south property line of the Platte Generating Station, the 1369 tie line extending from Substation F to NPPD's St. Libory Substation and the City transmission loop around the City. The work is contained within an eight-mile radius of Grand Island as depicted on the area map attached as Appendix A. Three hundred eighty-six (386) wood poles, three hundred ninety-three (393) metal (steel) poles, two (2) ductile iron poles and eleven (11) lattice structures exist on the 115 kV transmission lines. Approximately 7.2 miles of the lines are "H" frame construction, while 22.4 miles of the lines are single pole construction, and 2.5 miles of dual-circuit single pole structures.

Below is a brief outline of the major work to be performed under this contract. Full requirements and specifications are found in the body of these Detailed Specifications.

- A. Visual inspection of pole
- B. Testing & observation of pole condition before excavation
- C. Excavation of pole
- D. Excavation inspection of pole and grounds
- E. Testing of pole
- F. Preservation/fumigation/wrapping of pole
- G. Testing of pole ground
- H. Repair of pole ground if needed
- I. Site restoration
- J. Reporting

2.0 WORK AREA

The work areas are to be considered City easements, and/or public right of ways, containing City owned 115 kV transmission line and other areas owned and/or used by the City Utilities Department. Many of the transmission poles are not readily accessible from public roads. The successful contractor shall use restricted easement access to some work sites. The successful contractor shall provide adequate notice to landowners prior to access.

All work, and work access shall be contained to City easements, and/or public right of ways. If a question exists, at the time of the work, concerning easements or public right of ways the City's representative may be contacted for clarification. In any event, no trespassing on private property will be permitted.

Damage to property (public or private,) crops, fences, trees, and other items is the exclusive responsibility of the successful contractor.

The successful bidder shall provide for water, toilet, and other facilities as necessary for the work, and the bidder's personnel. No electrical power, materials, or facilities are available from the City Utilities Department.

The bidder shall provide appropriate rain tight disconnects, fusing, and ground fault protection for all equipment and power outlets used in the work of this contract. The ground leg of the ground fault protectors shall be attached by a single conductor, of the appropriate size, to the pole ground at a point close to the soil. Ground fault protection is required for all equipment and power outlets.

The bidder is ultimately responsible for providing all equipment and materials necessary to fulfill the work of this contract, including computers, tools, vehicles, and materials.

3.0 WORK COORDINATION

Work activities will be coordinated through the Electric Dispatch Center at (308) 385-5465. The 115 kV transmission lines will not be taken out of service. To increase safety and avoid unexpected delays and work interruptions, the Contractor shall closely coordinate activities with the Dispatch Center.

The Dispatch Center shall be notified directly by a phone call each time workers are present in or around work areas and when all workers have left work areas. This will allow the Dispatchers to make timely decisions for safety and security reasons.

Utility working hours are Monday through Friday from 7:30 a.m. to 4:00 p.m., the dispatch center is manned twenty-four hours a day. Normally, no contracted work shall be performed on nationally recognized holidays, or Sundays. Saturday work is permissible with coordination in advance with the Electric Department.

4.0 SAFETY

High voltage pole lines are inherently dangerous. All persons working in the area of the City's electrical system shall be completely aware of the dangers and the appropriate working methods to always maintain safety. All persons working in or around the City electrical system must tour each work area before any work commences. Danger points such as exposed electrical equipment, tunnels, channels, foundations, and any projections from the ground, structures, or equipment shall be noted to avoid personal injury or damage to equipment or structures.

The safety of the successful contractor's personnel, the public, and all property, under this contract is the exclusive responsibility of the successful bidder. The City's representative shall have the authority to stop the work in progress and cause changes in safety practices of the work to increase safety. However, neither the

City, nor City employees, nor City representatives, shall be held responsible for safety or safety practices or lack of the same, under this contract. The successful bidder is to maintain adequate safety precautions to protect workers, City personnel, public property, private property, and City property, at all times. The bidder, and bidder's employees must fully comply with all Federal, State, and Local safety regulations.

The successful Bidder's vehicles and equipment (whether owned by the bidder, rented, loaned, or borrowed) shall be moved and placed carefully to avoid damage to fences, crops, roadways, property, tunnels, structures, and equipment. Persons operating vehicles and/or equipment in and around the City's electrical system shall maintain adequate clearance from high voltage structures or bus for safety and damage prevention. Said vehicles shall be controlled by qualified and licensed individuals at all times.

5.0 COMMUNICATIONS

Contractor shall have at each work location a cellular telephone with number supplied to the Utilities Department dispatchers for safety and work coordination. The cellular telephone **shall be monitored** during any work or the presence of any workers in or around City lines, substations, property, or equipment.

6.0 POLE INFORMATION

The City is supplying pole information in two forms; in a printed form as Appendix B, and in electronic form as Appendix C. Appendix C of this document is a Microsoft Excel spreadsheet showing all pole information. Also included with Appendix C are detailed maps of each line with pole information included. Appendix C can be obtained by emailing travis.burdett@giud.com.

The pole information provided by the City is as accurate and complete as known to the City. The information provided is to be verified and updated to reflect the actual findings of the inspectors during the course of the work.

A portable or hand-held personal computer shall be used to verify information and make remarks in the field for the work. Notes, remarks, and information verification shall be made directly into the field computer, not transcribed later. Field notes shall be downloaded to a USB drive, provided by the City, and furnished to the Utilities Department representative daily or other previously arrange time interval.

7.0 WOOD POLE INSPECTION

All wood poles, on the 115 kV transmission line surrounding the City of Grand Island and the City owned poles on the Nebraska Public Power District (NPPD) interconnection tie lines, are to be inspected. Wood poles will be inspected for defects, in the pole structure, arms, attachments, and grounding equipment from at least 18 inches below ground level to pole top. The findings of the inspections shall be utilized for decisions about wood pole treatment requirements, and other

applicable maintenance.

Inspection shall be split into four separate parts.

- A. Inspection and verification of pole information.
- B. Inspection of pole hardware, attachments, and grounding.
- C. Inspection of soil condition, pole condition at ground line, and the advisability of sub-soil inspection.
- D. Inspection of the sub-soil pole condition.

Visual inspection shall include an inspection of surrounding soil and environment for indications of pole depth changes from initial placement, such as re-landscaping, or soil removal from within 10 feet of the pole. Indications of depth changes that may compromise safety or ability to perform sub-soil inspections shall be brought to the immediate attention of the City representative. Other, less severe, pole depth changes are to be properly noted in the reports without City representative notification.

Visual inspection shall also include observations of loose, defective, or missing hardware from a pole or pole structure. If vandalism is suspected (i.e. indication of a rifle shot, or other damage) to a pole or to a pole structure, the suspicions are to be noted as such in the reports.

Inspection above and below grade will include sounding, and/or the use of automated test equipment (i.e. PoleTest pole strength analyzer) to determine the quality of the internal wood to the pole. Sounding, and/or automated testing shall extend from below ground level to a point at least eight feet above grade.

Coring or drilling of the appropriate size and frequency shall be performed, as required, to assure an accurate assessment of each wood pole's internal integrity both above and below grade. Additionally, an assessment of the internal wood moisture content shall be performed to determine if moisture is or will exceed 30%, the level decay can start.

Wood poles that are not serviceable due to wood defects, obvious decay, or internal voids or wood poles with an estimated service life less than ten years, even after treatment, shall be marked with a blue line two feet above grade. This colored line will indicate the pole is in need of replacement. The pole shall be noted for replacement in the daily and final reports, as well as verbally informing the City's representative.

The City of Grand Island Utilities Department reserves the right to decide the actual treatment action or procedure, within reason, including the determination not to do any treatment, to be taken by the successful bidder based upon the findings of the inspections, and the successful bidder's recommendations.

8.0 EXCAVATION OF WOOD POLES

Wood poles subject to excavation shall have adequate strength, and depth, for a minimum excavation of 18 inches below ground level. Ground conductors, down guys, and support wires shall be handled carefully to prevent breakage.

The excavated soil shall be inspected for undecomposed organic material and other debris which shall be removed and destroyed. The cleaned soil and additional sandy loam fill, as required, shall be used to refill around the treated pole. New sandy loam fill dirt shall be purchased from a reputable supplier, not scooped up from the nearest open spot. The City's representative shall have the right to inspect and approve or reject the fill soil prior to project use. Flowers, landscaping, or other growing ground cover shall be replaced with new similar cover, after backfill and compaction.

Replacement fill shall be mechanically tamped with weighted hydraulic tamper in approximately 6 to 8 inch intervals. Soil compaction shall meet or exceed the original soil compaction. A four-inch buildup around base of each treated pole sloping to two inches of compacted fill at 12" from the pole shell.

Broken ground wires shall be repaired and tested per section 14.0. No backfilling will be done until the repair is performed.

Only every other pole or pole structure in a section of line shall be excavated at a time. No more poles may be excavated than can be refilled in a day. No poles will be left excavated overnight.

9.0 TREATMENT OF WOOD POLES

All wood poles shall be treated for preservation. Defective poles marked with a blue line shall be treated the same as other wood poles. Poles with internal voids or infestations shall have voids filled. Then the interior wood fumigated to prevent additional decay or wood loss. Bore holes shall be tightly capped with solid treated wood plugs. The shell will be treated, then wrapped from 18 inches below grade to one inch, minimum, above the compacted fill and replacement vegetation.

Treatment of the wood shall prevent future damage from insect infestation and fungal growth and decay for a period of at least ten years from date of application. Complete information regarding treatment and fumigation abilities and life are to be submitted with the bid. Said information shall be used in the bid evaluation process.

10.0 STEEL STRUCTURE INSPECTION

All steel structures including steel poles and steel lattice towers, on the 115 kV transmission line surrounding the City of Grand Island and the City owned poles on the Nebraska Public Power District (NPPD) interconnection tie lines, are to be inspected. This specification defines the inspection and assessment of steel transmission line steel structures to determine the extent of corrosion and/or other

damage. Structures found to be in serviceable condition will have a protective coating applied.

10.1 Definitions for General Corrosion Inspection

Corrosion inspection, terminologies are defined as follows:

Soil Resistivity: Is a significant indicator in determining how corrosive a soil environment is. Soils with low resistivity allow for the easy flow of current between an anode and cathode creating a higher level of corrosion activity. Soils with a resistivity of 1000 ohm-cm or less tend to be very corrosive, while soils with a resistivity of 10,000 ohm-cm are considered much less of an influence to corrosion. Soil resistivity measurements are taken with a Collins rod and bridge or other comparable device to sample soil resistivity at various depths and points of the structure site.

Soil pH: The pH measurement of soil surrounding a structure determines how acidic the soil is and helps to define its potential influence in the corrosion process. Measurements of a pH around 7 show a relatively neutral environment while measurements of 5.5 or less are considered to be acidic. Soil pH measurements are taken near the first leg or at a location deemed appropriate by the inspector.

Redox: Otherwise known as the measurement of oxygen reduction, redox measures the dissolved oxygen content in the soil. Redox measurements collected in close proximity to the structure can help to determine whether a structure is at risk from microbial influence corrosion (MIC). Measurements are taken from the partial excavation at the first leg or at a location deemed appropriate by the inspector.

Structure to soil potential measurements: Measure the structure to soil potential within the environment. Typically, this is done utilizing a digital or analog potential meter. The more negative the measurement is (< -.850 mV), the more likely it is that the structure will have a reduced potential for corrosion. The less negative the measurement (> -.400 mV), the more likely it is to corrode. Half Cells Voltage Measurements are taken from a distance of approximately (2) two feet from each structure. Readings are taken and recorded in the inspection log.

Very Low Corrosion: A reported structure that demonstrates a low potential for corrosion and no indicators for active corrosion. A partial excavation on each leg of the structure confirms possible existing damage. This structure is reported as having "Very Low" activity or insignificant levels of corrosion. Place in a 10 year Reinspect cycle for monitoring.

Active Corrosion: A reported structure that demonstrates the potential for mild to severe corrosion or the existence of corrosion in process. Again, a partial excavation on each leg of the structure confirms possible existing damage. This category of structure can be broken into smaller more manageable groups based upon the potential for corrosion and the level of present activity.

- Mild Corrosion Cell Re-Inspect and monitor corrosion in a 10-year cycle.
- Moderate Corrosion Cell Re-Inspect and monitor corrosion in a 10-year cycle.
- Severe Corrosion Cell Excavate and evaluate as soon as possible.

Priority Structure: A reported structure that reveals that there has been structural damage due to corrosion, mechanical damage, or Acts of God, which may exceed the Customer's threshold of allowable corrosion. The allowable thinning, edge loss pitting or structural damage is determined by the Customer policy of structure loading and applicable NESC factors of safety.

11.0 STEEL STRUCTURE EVALUATION

11.1 Visual Inspection

A visual inspection of all structures shall be made from ground line to the top of the structure for clearly visible defects. Items listed by Contractor requiring maintenance shall be noted on report sheet.

A visual inspection is for safety purposes only. The Contractor does not guarantee that the visual inspection will reveal all potential safety problems.

11.2 Corrosion Assessment

Weighted Decision Method shall be used to determine the overall corrosion cell ranking. This method is based upon instrument readings for specific site conditions effecting corrosion activity combined with a partial excavation. Each factor has a conformance level that is summed to achieve an overall ranking score which has a direct correlation to corrosion within that cell.

11.3 Concrete Foundation Assessment

Where applicable, and in addition to the corrosion assessment, concrete foundations will be evaluated by means of a rudimentary hammer impact test. Foundations that show negligible effects from the hammer impact points will require no further testing unless otherwise indicated. Impact points that reveal flaking concrete and/or exposes coarse aggregate will require further investigation into the condition and strength of the concrete.

11.4 Structural Assessment

The overall evaluation of corrosion severity will be determined through the visual assessment and direct physical measurement of steel members to determine actual section loss. Structures will be inspected and categorized according to the following information.

11.5 General Inspection

Thickness measurements to determine the extent of corrosion damage are taken with an Ultrasonic meter or other suitable device. Pit depths are measured with a pit gauge when excavation reveals that there is existing damage present. Edge loss and thinning are measured using a pit gauge or other suitable device.

Based on the structural measurements, structures will be categorized under four distinct levels of corrosion/mechanical damage. Conditions A, B, C, or D categories are defined as follows:

- Condition A Good Condition- Steel and galvanizing is in near original condition. Only minor surface rust is evident in a few small areas. Structures in this condition category will have a protective coating applied.
- Condition B From surface corrosion to pitted rust corrosion steel condition may range from surface rust in several areas to all buried surfaces showing rust and some minor pitting. For a Condition B rating, no loss of steel thickness shall exceed 1/16 inch. In addition, no steel member shall have a loss of total cross section greater than 10%. Structures in this condition category will have a protective coating applied.
- Condition C Corroded and Bent Steel Members- Leg/grillage has at least one steel member that has lost between 10% and 25% of cross section. Condition C will also includes steel members which are bent and in need of repair. Structures in this condition category will have a protective coating applied only by direction from the customer.

■ Condition D – Heavily Corroded - Members exceed the loss of steel limits defined in Condition C (greater than 25% loss of section). The Structure will typically have large loss of section, with areas of it completely rusted away or perforated due to corrosion. Structures in this condition category will be reported to the customer for further attention.

11.6 Priority Structure

A priority structure is a structure that reveals more than a 50% loss of cross section in either one or more tower legs or pole flats. These structures will be communicated directly to the customer for their immediate attention.

12.0 EXCAVATION OF STEEL STRUCTURES

All structures passing the above ground visual inspection shall be partially excavated to a depth of 18" below ground line. If damage is noted at 18", then excavation to 24" is completed and recorded.

13.0 PREVENTATIVE COATING APPLICATION TO STEEL POLES/TOWERS

13.1 General

Conditions

The terms and requirements of the Contract Documents apply to all the work of this section.

Description

Provide all labor, supervision, materials, testing, equipment, accessories and services necessary to prepare all surfaces and apply coatings to structures.

<u>Submittals</u>

Submit two (2) copies of product data sheets, planned surface preparation methods, materials safety data sheets (MSDS) and application information for approval by the Customer.

Safety Precautions

Please note the following:

 Meet all OSHA, Federal and State requirements, local regulations and the Customer Safety Standards.

- Lead based paint is the responsibility of the Customer; Contractor will advise as to the safest, most cost-effective method of remediation and will perform the work in compliance with all local, state, and federal codes including 29CFR1926.
- Precaution will be taken for protection against fire, dust, fumes and skin contact. Suitable ventilation should be provided if painting in enclosed locations.
- Examine the components to which this work shall be applied and report any deficiencies or apparent conflict with this specification to the Customer in writing. Work shall not proceed until such conditions have been remedied. Starting of painting work shall indicate the Contractor's acceptance of the surface.
- Sufficient time shall be allowed to the Contractor to permit proper application and curing of the special finishing materials.
- Before the start of coating work a pre-construction site meeting shall be held between the Contractor and Customer. At this meeting, a review shall be conducted on the interpretation of standard of acceptance or rejection of coating work. Each phase of the work such as receipt and storage of coating materials, equipment to be used, preparation of substrate, application of each coat and the degree and extent of Contractor inspection requirements shall be specifically reviewed. Also at the meeting, a field demonstration of surface preparation and coating application shall be conducted and an agreement shall be reached regarding conformance with this specification.
- Contractor shall not paint exteriors in rain, snow, fog, or mist unless using moisture-cured coating. Paint shall not be applied when the steel surface temperatures exceed limits specified by the paint manufacturer.
- Where concrete foundation repair is done, structure painting shall not be done until concrete work is complete and concrete has set sufficiently to prevent damage.
- When possible, the Contractor will advise Customer on methods and materials for increasing production efficiencies. Modifications of surface preparation, coating application method, curing times, number of coats, final dry thickness, or any other suggestions that may result in cost savings or increased quality.

Material Delivery, Storage and Handling

All coating materials shall be stored in enclosed structures to protect them from the weather and maintained at temperatures between 45 and 95 degrees F. Storage area shall be kept neat, clean and all damage thereto or to its surroundings shall be made good by the Contractor. Shelf life shall not exceed manufacturer's recommendations, or one year, whichever is less.

Inventory shall be kept of all materials including number of gallons, product code, batch number and date of manufacture.

During the progress of the work, all discarded coating materials, containers, rags, etc., will be removed from the project in order to avoid danger of fire.

Codes and Standards

Unless otherwise required in this specification, the following publications shall govern the work:

- Steel Structures Painting Council ("SSPC") Surface Preparation Specifications as found in the Steel Structures Painting Manual, Volume No. 2, Latest revisions.
- SSPC SP2 Hand Tool Cleaning or SSPC SP3 Power Tool Cleaning.
- Steel Structures Painting Council Paint Application Specification as found in the Steel Structures Painting Manual, Volume No. 2, latest revision.

Quality Assurance

Notify the Customers' representative in writing of any problems using the coating systems as specified herein.

13.2 Materials

Approved materials for coating are as follows:

- Thinner Induron Industrial Thinner K 1012 (Xylene) or Equivalent.
- Primer Coat Induron Induratar or Equivalent.
- Finish Coat Induron Induratar or Equivalent.

13.3 Execution

Structure Inspection

Steel members, which are missing, damaged, or deteriorated to the point where they are weakened, shall be immediately reported to the Customers' representative for repair/replacement procedure.

Before preparation and painting, inspect all connections for loose bolts/nuts. If there is any question as to the adequacy of bolt/nut, replace

with approved equivalent of same size. Replacement of bolts/nuts shall occur before surface preparation.

Surface Preparation: General

The surface preparation procedures are as follows:

- Perform all preparation and cleaning procedures in strict accordance with the manufacturer's instructions and as herein specified for each particular substrate condition as applicable. The Contractor is not liable for damages due to existing lead based paints. Treatment of such coatings that are loose and would interfere with proper remediation of the structure will be negotiated on an individual basis.
- All surfaces to be prepared for painting shall, at a minimum, meet the requirements of the Steel Structures Painting Council's specification SSPC-SP2 "Hand Tool Cleaning" or SSPC-SP3 "Power Tool Cleaning". That is, cleaning shall remove all loose mill scale, loose rust, dirt and other loose detrimental foreign matter. It is not intended that adherent mill scale, rust and paint be removed by this process. Mill scale, rust and paint are considered adherent if they cannot be removed by lifting with a dull putty knife.
- In preparing a previously painted surface, it is necessary to remove all corrosion and all paint, which shows evidence of corrosion, peeling, excessive thickness, brittleness, blistering, checking, scaling, or general disintegration. It is essential that the removal of the old paint be carried back around the edges of the spot or area until an area of completely intact and adhering paint film, with no rust or blisters underneath is attained.
- Special attention must be given to cleaning around rivets, bolts, nuts, previously welded surfaces, edges, angles and corners of members. The areas beneath and around replacement bolts and nuts shall be cleared before they are replaced.
- A sample area to be used as a reference standard shall be prepared for each region by the Contractor on a representative structure. Prior to work start, the Contractor inspector and the Customer shall mutually agree to the acceptable degree of cleaning for this reference standard.
- Cleaned surfaces shall be inspected and approved by the Contractor inspector before coating application.
- All rivets, welds, corners, joints and openings shall be cleaned. Tools shall be operated in such a manner that no burrs or sharp edges are left on metal surfaces and no sharp cuts are made into the steel.

The media waste generated during the surface preparation may contain lead. The Contractor must follow OSHA 29 CFR Part 126 dated May 4, 1993.

Preparation of Materials

Immediately after opening the coating material container, the applicator shall check the material for evidence of any skimming, curdling or otherwise degraded material. If any of these conditions exist, the coating shall not be used.

Before any coating material is applied; it must be well mixed consistent with manufacturer guidelines. Excessive mixing such as with a power mixer should be avoided since it could introduce moisture, which can accelerate curing and make application more difficult.

Induron MCU-62 and Induratar products are single component moisture cured urethane coatings that do not require mixing of multiple components. Some moderate mixing may be required initially after opening to reincorporate any material that has separated or settled in transit or storage.

E-Bond is a two-component epoxy penetrating sealer that requires mixing of both components in a 1:1 One part by volume of E-Bond 100 Part A to one part by volume of E-Bond 100 Part B. Agitate until components are thoroughly mixed.

Under certain conditions thinning of Induratar with Induron Industrial Thinner K – 1012 (Xylene) will help to provide a more even, consistent coverage. Adhere to mixing and application restrictions as identified in the coating Manufactures data sheets. As there is no maximum limit of thinner to add in the PDS/TDS, test by adding small amounts and apply to test application areas to ensure proper consistency. Do not exceed more than 10% addition of thinner. Do not thin E-Bond or MCU 62 Penetrating Sealer.

Application Conditions

No coating shall be applied when air and substrate temperatures exceed the manufacturer's recommendations.

Coating Schedule

After the proper surface preparation, components shall be coated as follows:

- Apply two coats of Induratar to achieve an average wet film thickness of 8.0 – 11.0 mils and 5.0 - 7.0 mils (DFT).
- Total average dry film thickness (DFT) applied per this specification shall be between 10.0 mils and 14.0 mils.

The tolerance on average dry film thickness readings shall be + or - 20%.

Note that variation in the applied dry film thicknesses of new coatings may occur due to variation in the thickness of remaining galvanization and/or previously applied coatings. These existing thickness values should be considered as part of the total dry film thickness. Coating thickness may also vary from manufacturer recommendations due to the specific application requirements for below-grade applications on transmission Structures.

The products listed shall be applied according to manufacturer specified requirements. Refer to the Product Data Sheet/Technical Data Sheet (PDS/TDS) for additional requirements. PDS/TDS should be available on the job site for review during the application process.

Due to the geometry of some Structures, the access necessary for coating application may be severely limited. Every effort will be made to coat inaccessible areas, but finished coatings may not meet all the above requirements.

<u>Application</u>

Copies of coating manufacturer's instructions, materials safety data sheets (MSDS) and this specification shall be available at the work site for workmen's use.

Animals may be attracted to these coatings. Digestion of these materials by animals may lead to their sickness. Consequently, when a structure will be exposed to domestic farm animals Contractor will take reasonable action to prevent contact of any farm animals which may reasonably be anticipated to have access to the painted surfaces or to unused paint in containers. Previously opened paint cans shall be removed from work areas after each workday.

The paint application procedure is as follows:

 Coatings shall be applied only to thoroughly cleaned and properly prepared surfaces.

- All work shall be done under competent supervision by skilled labor, and Customer safety requirements.
- Unless otherwise specified, all coating systems shall be applied by brush.
- Film shall not be stirred if it forms on the surfaces of paint in the containers. Remove the film, and if necessary. Strain the material before using.
- All coatings shall be applied in a competent skillful manner to achieve the specified film thickness.
- The application shall leave no holes or other defects.
- Care shall be taken to protect adjacent equipment, surfaces and property from coatings during coating operations. Protective mats and drop cloths shall be provided where necessary.
- Paint shall be well worked into all joints, connections, rivets, bolts and welds with a brush.
- Unless otherwise specified, coatings shall be applied to a minimum height of 12" above ground line.
- Unless otherwise specified, coatings shall be applied to a minimum depth of 24" below ground line.

Curing Time

Cure times to touch and recoat are affected by humidity, and to a somewhat lesser extent, by temperature. Manufacturers will typically recommend different curing times for different humidity and temperature ranges; the applicator will strictly adhere to these recommendations.

Finish coats shall be applied as quickly as possible after the primer has thoroughly dried. If the primer surfaces are contaminated before top coating, they should be adequately repaired, prepped, and recoated.

Repair of Defects

All damage to previous coats shall be repaired before application of any further coat of material.

Areas with inadequate wet film coating thickness shall have additional compatible coatings applied until they meet this specification.

Damaged or contaminated areas shall be cleaned as originally specified and the full coating system reapplied in accordance with this specification.

Coating Inspection

Prior to start of work, the Contractor shall coat a representative area. The application method as well as coating appearance, coverage and film build

shall be mutually agreed to by the Contractor inspector/Foreman and the Customer.

The Customer has the right to inspect work at any time to assure contract compliance.

The Contractor Inspector/Foreman shall record inspection and painting work on the inspection detail report. Prior to the start of work, the Contractor shall ensure that personnel are adequately informed in the use and recording of this report.

The Contractor's Foreman shall acquaint him or herself with the requirements of this specification, the Manufacturer's Standards, and the scope of work. The Contractor's Coating Foreman shall provide him or herself with wet film thickness gage and other equipment as necessary to inspect and monitor the work of painters under his direction. The Contractor's Coating Foreman shall also provide him or herself with temperature gages to determine surface temperatures of substrates to be coated.

Paint thickness measurements can be made with dry or wet film thickness gages. Dry thickness measurements shall be made with a properly calibrated Mikrotest or similar dry film thickness gage in accordance with the Steel Structures Painting Council Method, SSPC-PA2, "Measurement of Dry Paint Thickness with Magnetic Gages". Wet paint thickness measurements will be made using specific manufacturer approved gages.

Where the Customer representative's spot check reveals inadequate film build up, the Contractor shall provide an additional coat at Contractor's expense over the entire area where the inadequacy occurs.

Cleanup

After painting and inspection have been completed, all equipment, scaffolding, surplus materials and wastes resulting from painting shall be collected and removed from the work area. Proper disposal of these materials shall be in compliance with the direction contained within this document. All local, state and federal requirements concerning the disposal of solid waste and hazardous waste shall be complied with.

Final Inspection

The responsible Customer representative shall verify that all aspects of the work have been completed before final acceptance. Field inspection reports, including any discovered problems, shall be documented and kept by both the Contractor and the Customer representatives. Work not inspected by Customer within ten (10) days of completion shall be deemed acceptable.

14.0 TESTING AND REPAIR OF POLE GROUND

The bidder is responsible for inspection and electrical testing of each pole ground. If the ground resistance is found to be greater than 50 ohms, new or additional ground rods shall be driven and connected until the ground resistance tests below 50 ohms. All grounding materials will be provided by the City. Pre and post inspection resistance readings shall be recorded and provided to the City.

15.0 DISPOSAL OF DEBRIS

The bidder is responsible for the proper disposal of all debris from the work and cleanup performed under this contract. Disposal shall include items such as wet and dried residues, fumigants, pole wrap materials, mineral oil, spent solvent, hazardous material wastes, and any other waste from the work.

The bidder shall include a short description of the disposal method to be used for each of the several waste streams of the project. The proposed disposal methods shall be the only means used for disposal under this contract. The proposed disposal methods shall also be used in the evaluation of the bid. Not providing complete disposal methods and anticipated waste streams will be considered non-responsive and said bid will not be considered for award.

The bidder is responsible to comply with the most current of all Federal, State, and Local disposal requirements for all waste materials. Copies of all records relevant to disposal shall be given to the City, including manifests, disposal certificates and other pertinent documentation. Where applicable, original documents shall be given to the Utilities Department, copies being retained by the bidder.

The bidder shall hold harmless, and indemnify, the City of Grand Island, City Council members, and all other City employees from liability due to the improper handling, transporting or disposal of any hazardous wastes, discovered or generated by the work covered by this contract.

The City, since 1979, has tested all known oil filled equipment for Polychlorinated Biphenyls (PCB's.) All known PCB or PCB Contaminated items and equipment have been removed from service and properly destroyed. Any items found to be PCB or PCB contaminated during the work shall be reported to the City's representative. The City will properly dispose of the items.

16.0 COMPLETION DATE

The project shall not extend past the completion date proposed in the bid with one exception. To prevent or reduce damage to crops, poles located in fields shall be inspected first.

17.0 BIDDER REQUIREMENTS

All work, work coordination, oversight, and work quality are the successful bidder's responsibility.

The bidder, and the on-site supervisor, shall provide four references of wood pole inspection and treatment work completed in the last five years. Submitted references must be for work similar to that required by this contract, covering equipment rated to at least 115kV.

A list of the bidder's key personnel shall be submitted with the bid. The list is to include a short resume of pertinent work information. The list is to include on-site supervisor.

The bidder shall submit a list of equipment, other than hand tools or other common tools, to be used to fulfill the requirements of this contract. The list is to include any heavy equipment or vehicles to be used inside or around the substations.

18.0 SUBCONTRACTING

Subcontracting will not be allowed.

19.0 DOCUMENTATION

The City expects the bidder to be familiar with the work to be performed, the proper documentation, and the correct display of documents. The City may not be held liable or responsible for the failure of the contractor to acquire or display required documentation or licenses.

Ten copies of the final report, both printed and on Compact Disc, shall be given to the

Utility in the format specified in the bid. The documentation shall be comprehensive and complete.

Reports are to include:

- A. Initial Equipment Inspection Findings (As Found Report)
- B. Pole information
- C. Pole above soil condition
- D. Depth of Pole
- E. Pole attachments loose, damaged, or missing
- F. Pole below soil condition
- G. Coring, sounding, and/or other interior condition locator findings
- H. Performed treatment and fumigation
- I. Expected result of treatment
- J. Pre and post inspection ground resistance

These reports are to be complete, but concise. Test reports are to cover all tests

performed.

The Final Comprehensive Report is to include recommendations the bidder would have concerning the poles or future pole maintenance.

20.0 WARRANTY

All work performed, products, and treatments shall be warranted to be free from defect and to perform to the level specified by the original manufacturer, and to the current standards, whichever is the more stringent. All maintenance work and items used shall be warranted for at least one year from the date of City approval of final payment for all the work performed under this contract.

21.0 BID AND UNIT PRICING

The bidder shall submit a total bid price that includes all costs to perform the work as required by this specification, including taxes, fees, permitting or other such costs. The bidder shall include pricing for eighty (80) pole grounding repairs and include that cost in the total bid price. Final payment will be based upon actual work completed per the unit pricing below.

The bidder shall supply unit pricing under the following categories:

- A. Above Ground Inspection, Sounding, Boring, Attachment Inspection, Information Verification, and Collection per Wood Pole
- B. Above Ground Inspection, Attachment Inspection, Information Verification, and Collection per Steel (Metal) Pole and lattice structure
- C. Treatment of Interior Wood Voids per Pole
- D. Interior Wood Fumigation per Pole
- E. Treatment of Wood Exterior and Wrapping per Pole
- F. Coating application per Steel (Metal) Pole/Structure
- G. Purchase and Disposal of Fill Dirt per Pole
- H. Miscellaneous Cost per Pole with details
- I. Repair of grounding per Pole.

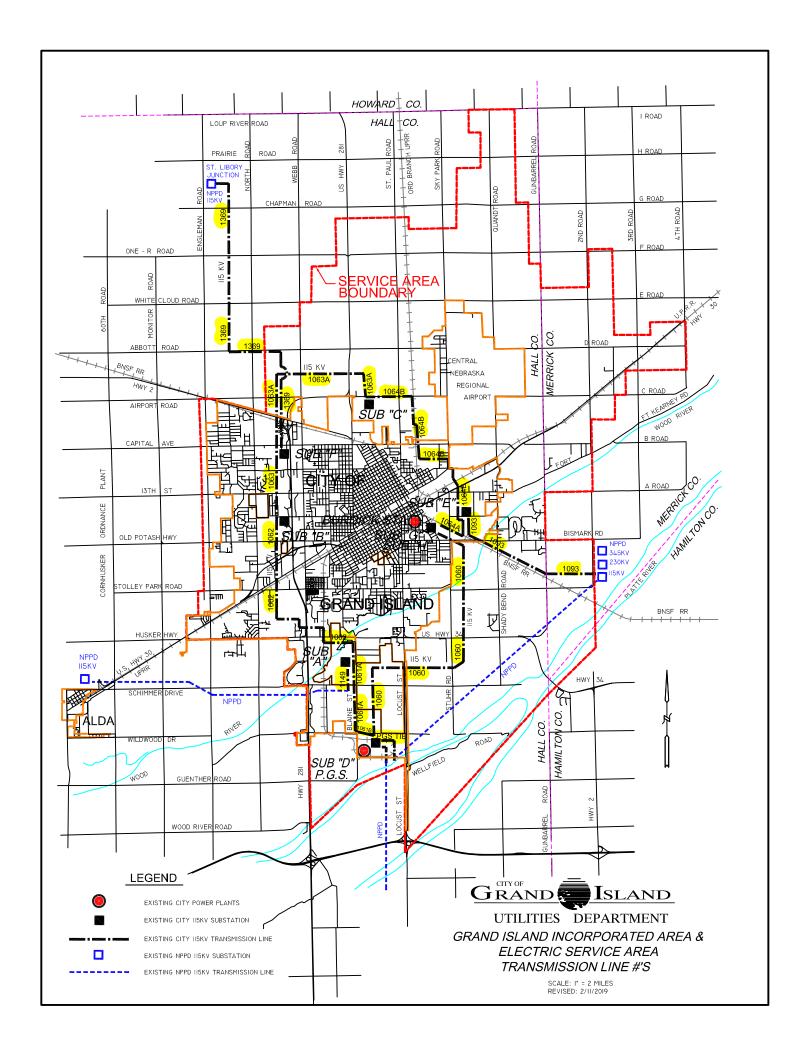
22.0 PAYMENT

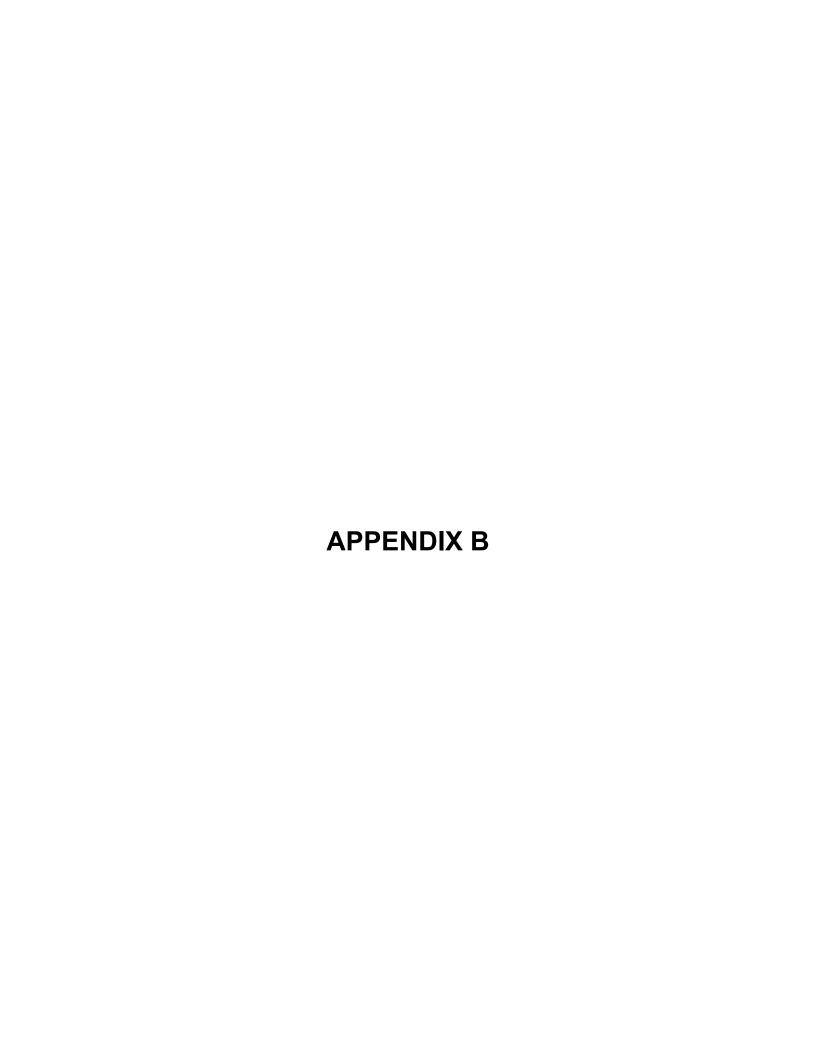
Bidder is to invoice per the unit pricing. Invoices may be submitted for work completed on a monthly basis. There will be no pre-payment on materials or labor.

Ten percent (10%) of each invoice shall be retained until the completion of the entire work and final acceptance. Full payment will be made upon satisfactory completion of the entire project, including proof of payment of all obligations or encumbrances, and all disposal manifests, and certificates.

The Bidder should allow at least three weeks for payment as the City Council usually meets twice monthly to approve payments.







OBJECTID I	UniqueID 10	Name P-10	Owner GIUD	Class 89 Type C	Material Steel Lattice Structure	Foundation Concrete Foundation	Grounded Yes	Hframe No	CrossArmCo Parallel	Transmissi 1060	X_Coord Y 131216.63251800	'_Coord 100850.52749874	Latitude Longitude 40.91828245 -98.31469423	Structure 10
110 17	110 17	P-110 P-17	GIUD	105 TS 90 HP	Steel Steel	Earth Earth	Yes Yes	No No	Parallel Vertical	1060 1060	131065.19450066 128005.07922983	100935.41774891 101923.61295099	40.91851598 -98.31524171 40.92123881 -98.32630876	10A 1A
6	6	P-17	GIUD	82 Type C	Steel Lattice Structure	Concrete Foundation	Yes	No	Parallel	1060	128254.68535791	101923.61295099	40.92123881 -98.32540589	2
16 5	16 5	P-16 P-5	GIUD	80 TS 82 Type A	Steel Steel Lattice Structure	Earth Concrete Foundation	Yes Yes	No No	Parallel Parallel	1060 1060	128153.55629508 128538.32685100	101879.84630624 101842.14493807	40.92111819 -98.32577174 40.92101342 -98.32437977	2A 3
15	15	P-15	GIUD	90 TS	Steel	Earth	Yes	No	Parallel	1060	128397.21919358	101855.97135399	40.92105185 -98.32489025	3A
14 4	14 4	P-14 P-4	GIUD	100 TS 105 Type B	Steel Steel Lattice Structure	Earth Concrete Foundation	Yes Yes	No No	Parallel Parallel	1060 1060	128718.11159641 129640.03855833	101824.52850349 101734.29771283	40.92096446 -98.32372937 40.92071361 -98.32039416	4A 6
3	3	P-3	GIUD	103 Type A	Steel Lattice Structure	Concrete Foundation	Yes	No	Parallel	1060	130051.60827325	101503.58984090	40.92007898 -98.31890615	7
13 2	13 2	P-13 P-2	GIUD	120 TS 98 Type A	Steel Steel Lattice Structure	Earth Concrete Foundation	Yes Yes	No No	Parallel Parallel	1060 1060	129851.29633791 130482.04277983	101615.87603366 101262.30685890	40.92038786 -98.31963036 40.91941524 -98.31734997	7A 8
12	12	P-12	GIUD	115 TS	Steel	Earth	Yes	No	Parallel	1060	130262.43790408	101385.40799066	40.91975388 -98.31814392	8A
1 11	1 11	P-1 P-11	GIUD	94 Type A 110 TS	Steel Lattice Structure Steel	Concrete Foundation Earth	Yes Yes	No No	Parallel Parallel	1060 1060	130911.66068700 130693.44786883	101021.48188124 101143.80250274	40.91875275 -98.31579677 40.91908925 -98.31658567	9 9A
2265 2264	2265 2264	P-2265 P-2264	GIUD	70/1 TSA 70/1 TSA	Wood Wood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1060 1060	131240.75517316 131226.25520216	97376.54494540 97376.55249132	40.90874831 -98.31462401 40.90874838 -98.31467646	D-10E D-10W
2263	2263	P-2263	GIUD	70/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	131240.34802175	96987.06869024	40.90767942 -98.31462739	D-11E
2262 2261	2262 2261	P-2262 P-2261	GIUD	70/1 TSA 70/1 TSA	Wood Wood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1060 1060	131225.84837883 131239.94251075	96987.08411016 96598.78862690	40.90767952 -98.31467984 40.90661382 -98.31463076	D-11W D-12E
2260	2260	P-2260	GIUD	70/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	131225.44221166	96598.83652707	40.90661401 -98.31468322	D-12W
2258 2259	2258 2259	P-2258 P-2259	GIUD	80/1 DESA 80/1 DESA	Wood Wood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1060 1060	131230.52487866 131247.02451758	96208.03579949 96207.94459232	40.90554147 -98.31466675 40.90554115 -98.31460706	D-13C D-13E
2257	2257	P-2257	GIUD	80/1 DESA	Wood	Earth	Yes	Yes	Horizontal	1060	131214.02523975	96208.12733474	40.90554178 -98.31472643	D-13W
2256 2255	2256 2255	P-2256 P-2255	GIUD	80/1 TSA 80/1 TSA	Wood Wood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1060 1060	131235.58261133 131221.08296841	95812.73114391 95812.84892582	40.90445657 -98.31465039 40.90445694 -98.31470284	D-14E D-14W
2254 2253	2254 2253	P-2254 P-2253	GIUD	70/1 TSA	Wood Wood	Earth Earth	Yes	Yes	Horizontal Horizontal	1060 1060	131231.34115000 131216.84249133	95416.14729141 95416.33298657	40.90336819 -98.31466768 40.90336875 -98.31472012	D-15E D-15W
2252	2252	P-2252	GIUD	70/1 TSA 70/1 TSA	Wood	Earth	Yes Yes	Yes Yes	Horizontal	1060	131225.47337958	95022.45516541	40.90228775 -98.31469083	D-16E
2251 2250	2251 2250	P-2251 P-2250	GIUD	70/1 TSA 70/1 TSA	Wood Wood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1060 1060	131210.97406475 131222.34477691	95022.62051941 94625.59473865	40.90228826 -98.31474328 40.90119861 -98.31470410	D-16W D-17E
2249	2249	P-2249	GIUD	70/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	131207.84513399	94625.70923974	40.90119898 -98.31475654	D-17W
2248 2247	2248 2247	P-2248 P-2247	GIUD	70/1 TSA 70/1 TSA	Wood Wood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1060 1060	131220.81394008 131206.31396908	94224.87539574 94224.93051374	40.90009888 -98.31471160 40.90009908 -98.31476404	D-18E D-18W
2246	2246	P-2246	GIUD	70/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	131219.29721083	93827.86962807	40.89900933 -98.31471903	D-19E
1013 1012	1013 1012	P-1013 P-1012	GIUD	70/1 TSA 70/1 TSA	Wood Wood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1060 1060	131204.79756791 131217.77195141	93827.92474607 93428.56137157	40.89900953 -98.31477148 40.89791346 -98.31472651	D-19W D-20E
1011	1011	P-1011	GIUD	70/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	131203.27198041	93428.61681765	40.89791367 -98.31477895	D-20W
1010 1009	1010 1009	P-1010 P-1009	GIUD	70/1 TSA 70/1 TSA	Wood Wood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1060 1060	131216.24702008 131201.74737716	93029.53297015 93029.58808815	40.89681837 -98.31473398 40.89681857 -98.31478642	D-21E D-21W
1008 1007	1008 1007	P-1008 P-1007	GIUD	70/1 TSA 70/1 TSA	Wood Wood	Earth	Yes Yes	Yes	Horizontal	1060 1060	131214.72176066 131200.22178966	92630.22471365 92630.27983166	40.89572250 -98.31474145 40.89572271 -98.31479389	D-22E D-22W
1007	1007	P-1007 P-1006	GIUD	70/1 TSA 75/1 TSA	Wood	Earth Earth	Yes	Yes Yes	Horizontal Horizontal	1060	131213.19387658	92230.33673391	40.89462505 -98.31474894	D-22W D-23E
2238	2238 2237	P-2238	GIUD	75/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	131198.69423366	92230.39185190	40.89462525 -98.31480138	D-23W
2237 2236	2236	P-2237 P-2236	GIUD	75/1 TSA 75/1 TSA	Wood Wood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1060 1060	131211.67255416 131197.17291125	91832.17611291 91832.23123091	40.89353233 -98.31475639 40.89353253 -98.31480883	D-24E D-24W
2235 2234	2235 2234	P-2235 P-2234	GIUD	70/1 TSA 70/1 TSA	Wood Wood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1060 1060	131210.23751766 131195.73754666	91456.47049949 91456.52594557	40.89250124 -98.31476342 40.89250144 -98.31481586	D-25E D-25W
2233	2233	P-2233	GIUD	70/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	131208.79296675	91078.46272532	40.89146383 -98.31477050	D-26E
2232 2230	2232 2230	P-2232 P-2230	GIUD	70/1 TSA 70/1 MASA	Wood Wood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1060 1060	131194.29332383 131204.04560091	91078.51817141 90719.72820657	40.89146404 -98.31482293 40.89047933 -98.31478942	D-26W D-27C
2231	2231	P-2231	GIUD	70/1 MASA	Wood	Earth	Yes	Yes	Horizontal	1060	131220.42844216	90717.76331549	40.89047387 -98.31473018	D-27E
2229 2228	2229 2228	P-2229 P-2228	GIUD	70/1 MASA 70/1 TSA	Wood Wood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1060 1060	131187.66341583 131110.86402874	90721.69309766 90371.98382332	40.89048478 -98.31484866 40.88952531 -98.31512811	D-27W D-28E
2227	2227	P-2227	GIUD	70/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	131096.86208824	90375.75153232	40.88953571 -98.31517873	D-28W
2226 2225	2226 2225	P-2226 P-2225	GIUD	70/1 TSA 70/1 TSA	Wood Wood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1060 1060	131016.68508324 131002.68314274	90021.97041574 90025.73812474	40.88856508 -98.31547040 40.88857547 -98.31552102	D-29E D-29W
2123 2122	2123 2122	P-2123 P-2122	GIUD	90/1 TSA	Wood Wood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1060 1060	131230.74108558 131216.24341116	100474.85666215 100474.58304065	40.91725140 -98.31464503 40.91725070 -98.31469748	D-2E D-2W
2224	2224	P-2122 P-2224	GIUD	90/1 TSA 70/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	130923.42575533	89675.37629265	40.88761422 -98.31580934	D-30E
2223 2221	2223 2221	P-2223 P-2221	GIUD	70/1 TSA 70/1 MASA	Wood Wood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1060 1060	130909.42414291 130816.02570766	89679.14400166 89327.75986191	40.88762461 -98.31585996 40.88666060 -98.31619941	D-30W D-31C
2222	2222	P-2222	GIUD	70/1 MASA	Wood	Earth	Yes	Yes	Horizontal	1060	130832.40034683	89325.73132265	40.88665498 -98.31614021	D-31E
2220 752	2220 752	P-2220 P-752	GIUD	70/1 MASA 70/1 TSA	Wood Wood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1060 1060	130799.65074041 130832.06504566	89329.78840116 88981.79598691	40.88666623 -98.31625862 40.88571107 -98.31614309	D-31W D-32E
751	751	P-751	GIUD	70/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	130817.56638699	88981.61390065	40.88571062 -98.31619552	D-32W
750 749	750 749	P-750 P-749	GIUD	70/1 TSA 70/1 TSA	Wood Wood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1060 1060	130836.42035191 130821.92169325	88634.67004074 88634.48795449	40.88475839 -98.31612902 40.88475795 -98.31618145	D-33E D-33W
748	748	P-748	GIUD	70/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	130840.76614375	88288.34002474	40.88380790 -98.31611498	D-34E
747 746	747 746	P-747 P-746	GIUD	70/1 TSA 70/1 TSA	Wood Wood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1060 1060	130826.26682891 130845.10931091	88288.15826657 87942.15961474	40.88380745 -98.31616741 40.88285781 -98.31610095	D-34W D-35E
745 744	745 744	P-745 P-744	GIUD	70/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	130830.61065225	87941.97752849	40.88285737 -98.31615338 40.88190556 -98.31608689	D-35W D-36E
744	744	P-744 P-743	GIUD	70/1 TSA 70/1 TSA	Wood Wood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1060 1060	130849.46297675 130834.96399000	87595.18688349 87595.00512532	40.88190556 -98.31608689 40.88190511 -98.31613932	D-36E D-36W
742 741	742 741	P-742 P-741	GIUD	70/1 TSA 70/1 TSA	Wood Wood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1060 1060	130853.80844050 130839.30945374	87248.84046333 87248.65837707	40.88095502 -98.31607285 40.88095457 -98.31612528	D-37E D-37W
739	739	P-739	GIUD	70/1 DESA	Wood	Earth	Yes	Yes	Horizontal	1060	130853.81926725	86902.47534241	40.88000444 -98.31607449	D-38C
740 738	740 738	P-740 P-738	GIUD	70/1 DESA 70/1 DESA F	Wood ibWood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1060 1060	130868.95309525 130838.68543924	86895.90120857 86909.04947624	40.87998634 -98.31601980 40.88002254 -98.31612918	D-38E D-38W
736	736	P-736	GIUD	70/1 DESA	Wood	Earth	Yes	Yes	Horizontal	1060	130653.41185966	86699.83664007	40.87944905 -98.31680011	D-39C
735 737	735 737	P-735 P-737	GIUD	70/1 DESA 70/1 DESA	Wood Wood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1060 1060	130647.29015275 130659.53356658	86715.15878791 86684.51416416	40.87949112 -98.31682218 40.87940697 -98.31677805	D-39N D-39S
2121	2121	P-2121	GIUD	85/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	131243.51435399	100102.37643599	40.91622911 -98.31460064	D-3E
2120 733	2120 733	P-2120 P-733	GIUD	85/1 TSA 75/1 TSA	Wood Wood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1060 1060	131229.01438300 130301.58743208	100102.44336499 86704.30841590	40.91622935 -98.31465310 40.87946260 -98.31807224	D-3W D-40N
734	734	P-734	GIUD	75/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	130301.72686750	86689.80877299	40.87942280 -98.31807180	D-40S
2219 732	2219 732	P-2219 P-732	GIUD	80/1 TSA 80/1 TSA	Wood Wood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1060 1060	129952.57172591 129952.71148941	86700.94917066 86686.44952774	40.87945463 -98.31933424 40.87941484 -98.31933380	D-41N D-41S
2217	2217 2218	P-2217	GIUD	85/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	129603.30437983	86697.58730074	40.87944665 -98.32059715 40.87940684 -98.32059832	D-42N D-42S
2218 2215	2215	P-2218 P-2215	GIUD GIUD	85/1 TSA 85/1 TSA	Wood Wood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1060 1060	129602.99991849 129251.57148749	86683.08372082 86715.75918040	40.87949775 -98.32186888	D-43N
2216 2213	2216 2213	P-2216 P-2213	GIUD GIUD	85/1 TSA 80/1 TSA	Wood Wood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1060 1060	129250.99931016 128900.92717566	86701.26970807 86725.33298016	40.87945799 -98.32187102 40.87952525 -98.32313671	D-43S D-44N
2214	2214	P-2214	GIUD	80/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	128900.53150716	86710.83858657	40.87948547 -98.32313821	D-44S
2211 2212	2211 2212	P-2211 P-2212	GIUD	75/1 TSA 75/1 TSA	Wood Wood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1060 1060	128540.28288383 128539.88721533	86735.17974524 86720.68535165	40.87955351 -98.32444071 40.87951373 -98.32444220	D-45N D-45S
2209	2209	P-2209	GIUD	70/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	128187.27735624	86744.81817740	40.87958116 -98.32571708	D-46N
2210 2207	2210 2207	P-2210 P-2207	GIUD	70/1 TSA 70/1 TSA	Wood Wood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1060 1060	128186.88168775 127819.34764591	86730.32345574 86754.86343291	40.87954138 -98.32571857 40.87960996 -98.32704742	D-46S D-47N
2208	2208	P-2208	GIUD	70/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	127818.95164933	86740.36903932	40.87957018 -98.32704891	D-47S
2205 2206	2205 2206	P-2205 P-2206	GIUD	70/1 TSA 70/1 TSA	Wood Wood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1060 1060	127461.13904475 127460.74337624	86764.64359707 86750.14887541	40.87963799 -98.32834260 40.87959821 -98.32834410	D-48N D-48S
2046	2046	P-2046	GIUD	70/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	127103.96226566	86774.39554607	40.87966592 -98.32963406	D-49N
2204 2119	2204 2119	P-2204 P-2119	GIUD	70/1 TSA 80/1 TSA	Wood Wood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1060 1060	127103.56626908 131241.71120800	86759.90115249 99711.78272898	40.87962614 -98.32963556 40.91515717 -98.31460909	D-49S D-4E
2118	2118 730	P-2118	GIUD	80/1 TSA	Wood	Earth Earth	Yes	Yes	Horizontal	1060	131227.21123699	99711.81980240	40.91515732 -98.31466154	D-4W D-50N
730 731	731	P-730 P-731	GIUD GIUD	70/1 TSA 70/1 TSA	Wood Wood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1060 1060	126738.10866666 126737.71299816	86784.38404316 86769.88964957	40.87969452 -98.33095690 40.87965474 -98.33095839	D-50S
728	728	P-728	GIUD	70/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	126372.60841341	86794.36302582	40.87972307 -98.33227845	D-51N

729	729	P-729	GIUD	70/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	126372.21274491	86779.86863224	40.87968329		D-51S
726	726	P-726	GIUD		Wood	Earth	Yes	Yes	Horizontal	1060	126009.19050508	86804.28525008	40.87975144		D-52N
727	727	P-727	GIUD	70/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	126008.79450849	86789.79085649	40.87971166		D-52S
724 725	724 725	P-724 P-725	GIUD	70/1 TSA 70/1 TSA	Wood Wood	Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1060 1060	125643.68729908 125643.29130249	86814.26423274 86799.76951107	40.87977996 40.87974019		D-53N D-53S
725 722	723	P-725 P-722	GIUD	70/1 TSA 70/1 TSA	Wood	Earth Earth	Yes	Yes	Horizontal	1060	125280.96033425	86824.16710007	40.87974019		D-535 D-54N
723	723	P-723	GIUD	70/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	125280.56466575	86809.67270649	40.87976848		D-54S
720	720	P-720	GIUD	70/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	124914.30686808	86834.17725065	40.87983683		D-55N
721	721	P-721	GIUD	70/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	124913.91119958	86819.68285707	40.87979706	-98.33755280	D-55S
718	718	P-718	GIUD	70/1 DESA	Wood	Earth	Yes	Yes	Horizontal	1060	124547.55530500	86837.36982957	40.87984669		D-56C
717	717	P-717	GIUD	70/1 DESA	Wood	Earth	Yes	Yes	Horizontal	1060	124548.02479225	86853.86290682	40.87989195		D-56N
719 715	719 715	P-719 P-715	GIUD	70/1 DESA 75/1 TSA	Wood Wood	Earth	Yes Yes	Yes	Horizontal Horizontal	1060 1060	124547.08548966 124182.25190175	86820.87675232 86855.81008141	40.87980143 40.87989837		D-56S D-57N
715	716	P-715 P-716	GIUD	75/1 TSA 75/1 TSA	Wood	Earth Earth	Yes	Yes Yes	Horizontal	1060	124181.80209950	86841.31732824	40.87985860		D-57N D-57S
713	713	P-713	GIUD	70/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	123782.77566658	86868.21458416	40.87993357		D-58N
714	714	P-714	GIUD	70/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	123782.32553625	86853.72183099	40.87989380		D-58S
2203	2203	P-2203	GIUD	70/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	123382.35028633	86880.64894249	40.87996884	-98.34309050	D-59N
712	712	P-712	GIUD	70/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	123381.90048408	86866.15586124	40.87992907		D-59S
2117	2117	P-2117	GIUD	75/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	131241.51927925	99323.03481882	40.91409028		D-5E
2116	2116	P-2116	GIUD	75/1 TSA 60/1 Dead End	Wood	Earth	Yes	Yes	Horizontal	1060	131227.01930825	99323.04170857	40.91409036 40.87998053		D-5W
2201 2200	2201 2200	P-2201 P-2200	GIUD	70/1 Dead End		Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1060 1060	123023.39037433 123023.84017658	86884.54197932 86899.03473249	40.87998053		D-60C D-60N
2202	2202	P-2202	GIUD	70/1 Dead End		Earth	Yes	Yes	Horizontal	1060	123022.94057208	86870.04889807	40.87994076		D-60S
2239	2239	P-2239	GIUD	60/1 Dead End	Wood	Earth	Yes	Yes	Horizontal	1060	122394.15016299	86906.46778849	40.88004244		D-61C
691	691	P-691	GIUD	70/1 Dead End	Wood	Earth	Yes	Yes	Horizontal	1060	122394.50318066	86920.96316632	40.88008222	-98.34666229	D-61N
2240	2240	P-2240	GIUD	70/1 Dead End		Earth	Yes	Yes	Horizontal	1060	122393.79714533	86891.97208257	40.88000266		D-61S
1024	1024	P-1024	GIUD	70/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	122183.70701433	86918.84768499	40.88007698		D-62N
690 1022	690 1022	P-690 P-1022	GIUD	70/1 TSA 75/1 TSA	Wood Wood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1060 1060	122183.24966616 121834.37208308	86904.35493182 86929.87095691	40.88003721 40.88010817		D-62S D-63N
1023	1023	P-1023	GIUD	75/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	121833.91473491	86915.37820374	40.88006840		D-63S
2115	2115	P-2115	GIUD	70/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	131241.32735050	98934.60088441	40.91302426		D-6E
1107	1107	P-1107	GIUD	70/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	131226.82737949	98934.60810224	40.91302433	-98.31466675	D-6W
1106	1106	P-1106	GIUD	70/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	131241.13574983	98545.47928732	40.91195635		D-7E
1105	1105	P-1105	GIUD	70/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	131226.63545075	98545.48617707	40.91195642		D-7W
1104	1104	P-1104	GIUD	70/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	131240.94349299	98156.35112857	40.91088842		D-8E
1103 1102	1103 1102	P-1103 P-1102	GIUD	70/1 TSA 70/1 TSA	Wood Wood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1060 1060	131226.44352200 131240.75090808	98156.35801832 97766.53005783	40.91088849 40.90981859		D-8W D-9E
1102	1102	P-1102 P-1101	GIUD	70/1 TSA	Wood	Earth	Yes	Yes	Horizontal	1060	131226.25093708	97766.53366674	40.90981865		D-9U
1100	1100	P-1100	GIUD		Steel	Concrete Foundation	Yes	No	Vertical	1060	121656.61653308	86928.06485815	40.88010368		DD-1
1021	1021	P-1021	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1060	121666.88226058	84903.87632124	40.87454840	-98.34930028	DD-10
1020	1020	P-1020	GIUD	85/1 ST	Wood	Earth	Yes	No	Vertical	1060	121668.02235016	84679.06049790	40.87393140	-98.34929694	DD-11
1019	1019	P-1019	GIUD	90/1 ST	Wood	Earth	Yes	No	Vertical	1060	121669.15292533	84456.13705924	40.87331960		DD-12
1018	1018	P-1018	GIUD	95/1 ST	Wood	Earth	Yes	No	Vertical	1060	121669.35010341	84232.80384449	40.87270668		DD-13
1017 1016	1017 1016	P-1017 P-1016	GIUD	90/1 ST 85/1 ST	Wood Wood	Earth Earth	Yes Yes	No No	Vertical Vertical	1060 1060	121667.56598625 121665.77169850	84010.35415816 83786.67547166	40.87209618 40.87148232		DD-14 DD-15
1015	1015	P-1015	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1060	121663.97642650	83562.80321599	40.87146232		DD-13
1013	1014	P-1014	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1060	121662.19526208	83340.78069416	40.87025859		DD-10
2199	2199	P-2199	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1060	121660.39966200	83116.92024949	40.86964423	-98.34932992	DD-18
2198	2198	P-2198	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1060	121658.61587291	82894.52141608	40.86903387	-98.34933714	DD-19
1099	1099	P-1099	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1060	121657.75629458	86703.30874599	40.87948685		DD-2
2197	2197	P-2197	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1060	121656.81896050	82670.47560433	40.86841900		DD-20
2196 2194	2196 2194	P-2196 P-2194	GIUD	80/1 ST 80/1 ST	Wood Wood	Earth Earth	Yes Yes	No No	Vertical Vertical	1060 1060	121655.02467275 121651.45118908	82446.79101232 82001.26598474	40.86780511 40.86658240		DD-21 DD-23
2193	2194	P-2194 P-2193	GIUD	70/1 ST1	Wood	Earth	Yes	No	Vertical	1060	121649.65854175	81777.78053932	40.86596907		DD-23
2192	2192	P-2192	GIUD	50 SPHD	Wood	Earth	Yes	No	Horizontal	1060	121647.85933274	81553.48177532	40.86535350		DD-25
2191	2191	P-2191	GIUD	50 SPHD	Wood	Earth	Yes	No	Horizontal	1060	121646.47318066	81378.15338583	40.86487232	-98.34938629	DD-26
2190	2190	P-2190	GIUD	70/1 ST1	Wood	Earth	Yes	No	Vertical	1060	121644.65100583	81147.68599899	40.86423982	-98.34939368	DD-27
2189	2189	P-2189	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1060	121642.79503841	80912.96862066	40.86359566		DD-28
2188	2188	P-2188	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1060	121640.94235183	80678.64297383	40.86295257		DD-29
1098 2187	1098 2187	P-1098 P-2187	GIUD	80/1 ST 80/1 ST	Wood Wood	Earth Earth	Yes Yes	No No	Vertical Vertical	1060 1060	121658.89835266 121639.07818233	86478.09200482 80442.84324857	40.87886876 40.86230544		DD-3 DD-30
2186	2186	P-2187 P-2186	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1060	121637.22254299	80208.14161824	40.86230344		DD-30 DD-31
2185	2185	P-2185	GIUD		Wood	Earth	Yes	No	Vertical	1060	121635.36395091	79973.07614349	40.86101620		DD-32
2184	2184	P-2184	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1060	121633.50831158	79738.37779399	40.86037208	-98.34943884	DD-33
2183	2183	P-2183	GIUD	85/1 ST	Wood	Earth	Yes	No	Vertical	1060	121631.68613674	79507.90679824	40.85973957	-98.34944623	DD-34
2267	2267	P-2267	GIUD	90/1 ST	Wood	Earth	Yes	No	Vertical	1060	121629.95254441	79288.63722365	40.85913781		DD-35
2266	2266	P-2266	GIUD	95/1 ST	Wood	Earth	Yes	No	Vertical	1060	121628.28719341	79077.97589957	40.85855966		DD-36
2245 2244	2245 2244	P-2245 P-2244	GIUD	70 SPDE-2 80/1 ST	Steel Wood	Concrete Foundation Earth	Yes Yes	No No	Vertical Vertical	1060 1060	121626.48700016 121850.52526600	78868.03078140 78860.77128149	40.85798348 40.85796297		DD-37 DD-38
2243	2244	P-2244	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1060	121996.41933116	78856.04392873	40.85794961		DD-38
1097	1097	P-1097	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1060	121660.04073883	86252.88182532	40.87825068		DD-4
2242	2242	P-2242	GIUD	70 SPDE-2	Steel	Concrete Foundation	Yes	No	Vertical	1060	122133.34097333	78851.60758591	40.85793706	-98.34763518	DD-40
2241	2241	P-2241	GIUD	80/1 ST1	Wood	Earth	Yes	No	Vertical	1060	122126.50470091		40.85736725		DD-41
1096	1096	P-1096	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1060	121661.17951608		40.87763455		DD-5
1095 1094	1095 1094	P-1095 P-1094	GIUD	80/1 ST 80/1 ST	Wood Wood	Earth Earth	Yes Yes	No No	Vertical Vertical	1060 1060	121662.32288650 121663.46264800	85802.86172799 85578.15548449	40.87701562 40.87639893		DD-6 DD-7
1094	1094	P-1094 P-1093	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1060	121664.59617591	85354.60868749	40.87578541		DD-8
1092	1092	P-1092	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1060	121665.73987441	85129.18787849	40.87516676		DD-9
2195	2195	P-2195	GIUD	80/1 ST Fiber	Wood	Earth	Yes	No	Vertical	1060	121653.23793091	82224.03981741	40.86719379	-98.34935891	
18574	18574	P-18574	GIUD		Steel Lattice Structure	Concrete Foundation	Yes	No	Parallel	1060		101771.28746824			
18575	18575	P-18575	GIUD	//	Steel Lattice Structure	Concrete Foundation	Yes	No	Parallel	1060			40.92091532		
18576 18577	18576 18577	P-18576 P-18577	GIUD		Steel Steel	Earth Earth	Yes	No No	Parallel	1060 1060		101752.14839891	40.92076326 40.92086561		
119	119	P-119	GIUD	80 SDTA	Steel	Concrete Foundation	Yes Yes	No	Parallel Parallel	1061A	129081.01572625 118983.16256241	101788.96951949 87943.14878599	40.88289615		A-1
118	118	P-118	GIUD		Steel	Concrete	Yes	No	Parallel	1061A	118987.91025633	87744.55272648	40.88235111		A-10
1090	1090	P-1090	GIUD	93 SDT	Steel	Concrete	Yes	No	Parallel	1061A	118980.32693816	85746.23552891	40.87686687	-98.35901116	A-11
117	117	P-117	GIUD	93 SDT	Steel	Concrete	Yes	No	Parallel	1061A	118992.68682158	87544.73619699	40.88180271		A-12
1088	1088	P-1088	GIUD		Steel	Concrete	Yes	No	Parallel	1061A	118971.84007850	85285.20561107	40.87560162		A-13
2136	2136	P-2136	GIUD		Steel	Concrete	Yes	No	Parallel	1061A	118967.49428666		40.87495375		A-14
2134 2133	2134 2133	P-2134 P-2133	GIUD	99 SDT 85 SDTD Fibe	Steel Steel	Concrete Concrete Foundation	Yes Yes	No No	Parallel Parallel	1061A 1061A	118958.83157433 118950.27942608	84578.55741807 84345.68485232	40.87366230 40.87302322		A-15 A-16
2133	2133	P-2133 P-2132	GIUD	70 SVDN	Steel	Concrete Foundation	Yes	No	Vertical	1061A 1061A	118950.27942608	84098.83199957	40.87302322		A-16 A-17
112	112	P-112	GIUD	93 SDT	Steel	Concrete	Yes	No	Parallel	1061A	118989.11432216	86223.58234324	40.87817690		A-2
2131	2131	P-2131	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1061A	118963.06417741	83879.97154491	40.87174506		A-23
2130	2130	P-2130	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1061A	118958.57862208	83637.21776532	40.87107885		A-24
2129	2129	P-2129	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1061A	118957.07632850	83401.14277816	40.87043096		A-25
2128	2128 2127	P-2128	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1061A	118955.57042599	83164.52317265	40.86978158		A-26
2127 2126	2127	P-2127 P-2126	GIUD		Wood Wood	Earth Earth	Yes Yes	No No	Vertical Vertical	1061A 1061A	118954.07567833 118952.57961833	82929.69358982 82694.60055608	40.86913710 40.86849191		A-27 A-28
2125	2125	P-2125 P-2125	GIUD		Wood	Earth	Yes	No	Vertical	1061A 1061A	118951.08060558	82459.07970165	40.86784554		A-28 A-29
1089	1089	P-1089	GIUD	93 SDT	Steel	Concrete	Yes	No	Parallel	1061A	118976.13797016	85518.67167957	40.87624235		A-3
2124	2124	P-2124	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1061A	118949.57371883	82222.31475524	40.86719576		A-30
2114	2114	P-2114	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1061A	118948.07470608	81986.79422890	40.86654939		A-31
2113	2113	P-2113	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1061A	118946.57503716	81751.15067132	40.86590268		A-32
2112 2111	2112 2111	P-2112 P-2111	GIUD	60/1 ST 80/1 ST	Wood Wood	Earth Earth	Yes Yes	No No	Vertical Vertical	1061A 1061A	118946.65148058 118946.77155908	81562.46108807 81266.18805857	40.86538483 40.86457173		A-33 A-34
2111	2111	P-2111 P-2110	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1061A 1061A	118946.87260875	81017.60555049	40.86388951		A-34 A-35
2109	2109	P-2109	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1061A	118946.97267416		40.86320995		A-36
2108	2108	P-2108	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1061A	118947.07405191	80521.00779040	40.86252662		A-37
2107	2107	P-2107	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1061A	118947.17411733	80274.23466191			A-38

2106	2106	P-2106	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1061A	118947.27483891		40.86116639 -98.35914820	A-39
111	111	P-111	GIUD	93 SDT	Steel	Concrete	Yes	No	Parallel	1061A	118984.79116808	85988.72815415	40.87753237 -98.35899428	A-4
2105	2105	P-2105	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1061A	118947.37523241	79778.18119207	40.86048798 -98.35914859	A-40
2104	2104	P-2104	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1061A	118947.47595400	79529.32637482	40.85980501 -98.35914899	A-41
2103	2103	P-2103	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1061A	118947.57667558	79280.90561182	40.85912323 -98.35914938	A-42
2102	2102	P-2102	GIUD	85/1 VD	Wood	Earth	Yes	No	Vertical	1061A	118947.72956241	79040.55996390	40.85846361 -98.35914957	A-43
2101 1091	2101 1091	P-2101 P-1091	GIUD	75 SVD 70 SDTF	Steel Steel	Concrete Foundation Concrete Foundation	Yes Yes	No No	Vertical Parallel	1061A 1061A	118945.69577383 119000.04704308	78697.97665957 87117.86959665	40.85752342 -98.35915797 40.88063119 -98.35893565	A-44 A-4A
2135	2135	P-2135	GIUD	93 SDT	Steel	Concrete	Yes	No	Parallel	1061A	118963.16489900	84813.93391582	40.87430827 -98.35907608	A-5
116	116	P-116	GIUD	93 SDT	Steel	Concrete	Yes	No	Parallel	1061A	118997.47880675	87344.26875015	40.88125253 -98.35894424	A-6
115	115	P-115	GIUD	93 SDT	Steel	Concrete	Yes	No	Parallel	1061A	119002.15497850	86931.99267182	40.88012105 -98.35892860	A-7
113	113	P-113	GIUD	93 SDT	Steel	Concrete	Yes	No	Parallel	1061A	118993.46962841	86460.17307740	40.87882620 -98.35896145	A-8
114	114	P-114	GIUD	93 SDT	Steel	Concrete	Yes	No	Parallel	1061A	118997.80557774	86695.72214699	40.87947263 -98.35894505	A-9
16410	16410	P-16410	GIUD	80-1 SPT	Steel	Concrete	Yes	No	Vertical	1061A	119046.22050716	78696.44975974	40.85751899 -98.35879461	
2100	2100	P-2100	GIUD	70 SVD	Steel	Concrete Foundation	Yes	No	Vertical	1061B	119424.50059050	78940.51127949	40.85818791 -98.35742649	A-45
2099	2099	P-2099	GIUD	85/1 ST	Wood	Earth	Yes	No	Vertical	1061B	119680.10309766	78887.38244874	40.85804149 -98.35650274	A-46
2098	2098	P-2098	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1061B	119925.87852475	78836.29626482	40.85790070 -98.35561450	A-47
870	870	P-870	GIUD	80/1 ST	Steel	White Rock	Yes	No	Vertical	1061B	120170.71760200	78785.40496241	40.85776043 -98.35472965	A-48
869	869	P-869	GIUD	85/1 ST	Wood	Earth	Yes	No	Vertical	1061B	120414.42183900	78734.74955191	40.85762080 -98.35384890	A-49
868 867	868 867	P-868 P-867	GIUD	85/1 ST 80/1 ST	Wood Wood	Earth Earth	Yes	No No	Vertical Vertical	1061B 1061B	120658.93020825 120895.58130975	78683.92681891 78634.73695666	40.85748071 -98.35296526 40.85734511 -98.35211001	A-50 A-51
866	866	P-866	GIUD	80/1 ST	Wood	Earth	Yes Yes	No	Vertical	1061B	121132.19960291	78585.55431224	40.85734511 -98.35211001	A-51 A-52
865	865	P-865	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1061B	121369.26408941	78536.27849215	40.85707368 -98.35039815	A-53
864	864	P-864	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1061B	121605.44635983	78487.18639874	40.85693833 -98.34954461	A-54
863	863	P-863	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1061B	121816.09882566	78443.40072516	40.85681761 -98.34878333	A-55
16411	16411	P-16411	GIUD	65 SVD	Steel	Concrete Foundation	Yes	No	Vertical	1061B	119412.16564141	78691.90219665	40.85750565 -98.35747186	
862	862	P-862	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	118904.48128933	89269.46470290	40.88653632 -98.35927462	B-10
861	861	P-861	GIUD	80/1 VD	Wood	Earth	Yes	No	Vertical	1062	118895.06693808	89516.41729299	40.88721408 -98.35930791	B-11
860	860	P-860	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	118694.27895383	89527.87068216	40.88724598 -98.36003398	B-12
859	859	P-859	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	118493.46537908	89539.32571174	40.88727788 -98.36076014	B-13
858	858 857	P-858	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	118294.76400483	89548.94577124	40.88730473 -98.36147868	B-14
857 856	857 856	P-857 P-856	GIUD	80/1 ST 80/1 ST	Wood Wood	Earth Earth	Yes Yes	No No	Vertical Vertical	1062 1062	118096.33297125 117844.75309383	89559.69771824 89573.32990883	40.88733468 -98.36219623 40.88737265 -98.36310597	B-15 B-16
855	855	P-855	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	117623.89231508	89585.29740457	40.88740598 -98.36390463	B-17
711	711	P-711	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	117402.85896450	89597.27441474	40.88743933 -98.36470392	B-18
2045	2045	P-2045	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	117181.99818575	89609.24191049	40.88747265 -98.36550258	B-19
1314	1314	P-1314	GIUD	85/1 ST	Wood	Earth	Yes	No	Vertical	1062	116960.46778891	89621.24549541	40.88750606 -98.36630366	B-20
965	965	P-965	GIUD	90/1 VDP	Wood	Earth	Yes	No	Vertical	1062	116728.91936750	89632.00170749	40.88753606 -98.36714098	B-21
964	964	P-964	GIUD	90/1 ST	Wood	Earth	Yes	No	Vertical	1062	116496.94837474	89848.10396557	40.88812962 -98.36797927	B-22
409	409	P-409	GIUD	85/1 VDP	Wood	Earth	Yes	No	Vertical	1062	116267.17258758	90059.35419924	40.88870985 -98.36880965	B-23
408	408	P-408	GIUD	85/1 ST	Wood	Earth	Yes	No	Vertical	1062	116267.86779616	90283.86982632	40.88932601 -98.36880654	B-24
407	407	P-407	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	116267.84187758	90508.36511224	40.88994212 -98.36880603	B-25
406	406	P-406	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	116267.50395175	90733.59432057	40.89056025 -98.36880666	B-26
405	405	P-405	GIUD	70 SPDE	Steel	Concrete Foundation	Yes	No	Vertical	1062	116268.32416008	91184.20660833	40.89179692 -98.36880249	B-27
227	227	P-227	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	116267.65093308	90957.93770391	40.89117595 -98.36880553	B-27A
404 403	404 403	P-404 P-403	GIUD	80/1 ST 80/1 ST	Wood Wood	Earth Earth	Yes Yes	No No	Vertical Vertical	1062 1062	116042.03163366 115815.15807166	91180.15838807 91177.46351157	40.89178627 -98.36962089 40.89177932 -98.37044139	B-28 B-29
402	402	P-402	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	115588.42558550	91174.77027549	40.89177238 -98.37126138	B-30
401	401	P-401	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	115361.67767941	91172.07671132	40.89176542 -98.37208143	B-31
400	400	P-400	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	115134.40680850	91169.37724166	40.89175845 -98.37290336	B-32
399	399	P-399	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	114907.51552999	91166.68170899	40.89175148 -98.37372393	B-33
398	398	P-398	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	114681.09111408	91163.99208182	40.89174451 -98.37454280	B-34
397	397	P-397	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	114454.01479658	91161.29458065	40.89173753 -98.37536404	B-35
396 395	396 395	P-396 P-395	GIUD	80/1 ST 90/1 ST	Wood Wood	Earth Earth	Yes Yes	No No	Vertical Vertical	1062 1062	114228.80625749 114000.85297325	91158.61938915 91155.91138932	40.89173059 -98.37617851 40.89172357 -98.37700292	B-36 B-37
394	394	P-394	GIUD	80 SVDP	Steel	Concrete Foundation	Yes	No	Vertical	1062	113773.55716800	91153.21126349	40.89171655 -98.37782494	B-38
393	393	P-393	GIUD	75 SPDE	Steel	Concrete Foundation	Yes	No	Vertical	1062	113498.96060433	91449.32254791	40.89252968 -98.37881736	B-39
392	392	P-392	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	113495.89302516	91692.03859790	40.89319581 -98.37882791	B-40
391	391	P-391	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	113492.84709949	91933.03844399	40.89385722 -98.37883838	B-41
390	390	P-390	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	113489.80609508	92173.60751665	40.89451745 -98.37884884	B-42
389	389	P-389	GIUD	70 SPDE	Steel	Concrete Foundation	Yes	No	Vertical	1062	113486.75885708	92414.72284807	40.89517918 -98.37885932	B-43
388	388	P-388	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	113260.23437575	92411.63591199	40.89517109 -98.37967860 40.89516308 -98.38048954	B-44
387 386	387 386	P-387 P-386	GIUD	80/1 ST 80/1 ST	Wood Wood	Earth Earth	Yes Yes	No No	Vertical Vertical	1062 1062	113036.01369558 112807.35011091	92408.58014382 92405.46433640	40.89515308 -98.38048954	B-45 B-46
385	385	P-385	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	112580.13665458	92402.36755782	40.89514677 -98.38213833	B-47
384	384	P-384	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	112353.82772399	92399.28357449	40.89513867 -98.38295683	B-48
383	383	P-383	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	112125.51125149	92396.17203216	40.89513049 -98.38378259	B-49
382	382	P-382	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	111899.89654525	92393.09690707	40.89512240 -98.38459858	B-50
381	381	P-381	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	111672.83696000	92390.00242507	40.89511425 -98.38541979	B-51
380	380	P-380	GIUD	80/1 ST Fibe	r Wood	Earth	Yes	No	Vertical	1062	111446.32363350	92386.91516090	40.89510611 -98.38623903	B-52
379	379	P-379	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	111219.97566099		40.89509798 -98.38705767	B-53
378	378	P-378	GIUD	80/1 VD	Wood	Earth	Yes	No	Vertical	1062	110990.13524141	92380.69798174	40.89508971 -98.38788894	B-54
377	377	P-377	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	110988.97513875	92610.05316607	40.89571916 -98.38789271	B-55
376	376	P-376	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	110987.85243758	92832.01958565	40.89632833 -98.38789635	B-56
375 374	375 374	P-375 P-374	GIUD	80/1 ST 80/1 ST	Wood Wood	Earth Earth	Yes Yes	No No	Vertical Vertical	1062 1062	110986.71464458 110985.58866258	93056.94433265 93279.60300807	40.89694563 -98.38790004 40.89755670 -98.38790370	B-57 B-58
373	373	P-373	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	110984.43184074	93508.19769524	40.89818406 -98.38790745	B-59
372	372	P-372	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	110983.32980883	93726.14378165	40.89878220 -98.38791103	B-60
371	371	P-371	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	110984.33243150	93936.08201008	40.89935836 -98.38790701	B-61
370	370	P-370	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	110985.37015908	94153.29023707	40.89995447 -98.38790285	B-62
369	369	P-369	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	110986.38163999	94365.12183440	40.90053583 -98.38789879	B-63
368	368	P-368	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	110987.41182166	94580.77560257	40.90112767 -98.38789466	B-64
367	367	P-367	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	110988.66870891	94794.89754965	40.90171531 -98.38788971	B-65
366	366	P-366	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	110989.39311691	94995.59563907	40.90226611 -98.38788671	B-66
365	365	P-365	GIUD	80/1 H1 SSTM		Concrete	Yes	No	Vertical	1062	110988.86785550		40.90292255 -98.38788816	B-67
364	364	P-364	GIUD	80/1 ST	Wood	Earth Earth	Yes	No	Vertical	1062 1062	110989.30715908		40.90357881 -98.38788613	B-68
363 109	363 109	P-363 P-109	GIUD	80/1 ST 80 SST	Wood Steel	Earth White Rock	Yes Yes	No No	Vertical Vertical	1062	110989.74843116 118931.77421375		40.90423855 -98.38788408 40.88457150 -98.35917812	B-69 B-7
362	362	P-109 P-362	GIUD	80 SST 85/1 ST	Wood	Wnite ROCK Earth	Yes	No No	Vertical	1062	118931.77421375		40.88457150 -98.35917812 40.90490089 -98.38788202	B-70
361	361	P-361	GIUD	85/1 VF	Wood	Earth	Yes	No	Vertical	1062	110990.62146091	96189.98957574	40.90554403 -98.38788003	B-71
360	360	P-360	GIUD	90/1 VF	Wood	Earth	Yes	No	Vertical	1062	111027.14665033	96445.47561332	40.90624514 -98.38774742	B-72
359	359	P-359	GIUD	85 H1 SSTM	Steel	Concrete	Yes	No	Vertical	1062	111026.30544466	96775.90802332	40.90715199 -98.38774984	B-73
358	358	P-358	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	111027.03083691	97004.06012607	40.90777814 -98.38774679	B-74
357	357	P-357	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	111027.75786958	97232.65415707	40.90840549 -98.38774373	B-75
356	356	P-356	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	111028.48063716	97460.03756057	40.90902953 -98.38774069	B-76
355 226	355 226	P-355 P-226	GIUD	80/1 ST 80/1 ST	Wood Wood	Earth Earth	Yes Yes	No No	Vertical Vertical	1062 1062	111029.30576675 111027.30216183	97719.57575540	40.90974181 -98.38773721	B-77 B-78
354	354	P-226 P-354	GIUD	80/1 ST 80/1 ST	Wood	Earth	Yes	No No	Vertical	1062	111027.30216183	97951.45357249 98186.32449383	40.91037818 -98.38774402 40.91102277 -98.38775092	B-78 B-79
108	108	P-354 P-108	GIUD	80 SST	Steel	White Rock	Yes	No	Vertical	1062	118922.53145008	88796.00206716	40.88523689 -98.35921080	B-79 B-8
353	353	P-353	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	111023.28051633	98416.82272049	40.91165536 -98.38775769	B-80
352	352	P-352	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	111021.06234491	98638.88362807	40.91226479 -98.38776530	B-81
351	351	P-351	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	111018.94227041	98890.21284982	40.91295455 -98.38777250	B-82
350	350	P-350	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	111016.87370500	99135.37180832	40.91362737 -98.38777952	B-83
349	349	P-349	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	111014.81990333	99378.79323748	40.91429542 -98.38778649	B-84
348 347	348 347	P-348 P-347	GIUD	80/1 ST 80/1 ST	Wood Wood	Earth Earth	Yes Yes	No No	Vertical Vertical	1062 1062	111012.76938250 111010.71558083	99621.86164899 99865.26962674	40.91496251 -98.38779345 40.91563052 -98.38780042	B-85 B-86
346	346	P-346	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062		100108.35641091	40.91629766 -98.38780738	B-87
345	345	P-345	GIUD	80 SST	Steel	White Rock	Yes	No	Vertical	1062		100289.18314899	40.91679393 -98.38781256	B-88
344	344	P-344	GIUD	80 SST	Steel	White Rock	Yes	No	Vertical	1062	111003.68114608	100565.32465708	40.91755178 -98.38782455	B-89
107	107	P-107	GIUD	80 SST	Steel	White Rock	Yes	No	Vertical	1062	118913.28638983	89038.51076849	40.88590246 -98.35924349	B-9

343	343	P-343	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	111002.93114758	100842.06786999	40.91831128 -98.3878		
342	342	P-342	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	111000.89768708	101091.68613715	40.91899634 -98.3878		
341	341	P-341	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	110998.92098499	101334.31360465	40.91966221 -98.3878		
340	340	P-340	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	110996.92262941	101579.61199857	40.92033542 -98.3878		
339	339	P-339	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	110994.90097991	101827.74896949	40.92101641 -98.3878		
338	338	P-338	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	110992.89967158	102073.40694274	40.92169060 -98.3878		
337	337	P-337	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	110990.89442625	102319.54687040	40.92236612 -98.3878		
336	336	P-336	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1062	110988.88918091	102565.68417341	40.92304162 -98.3878		
106	106	P-106	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063A	111070.97399050	117519.59389807	40.96408111 -98.3875		
335	335	P-335	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063A	113145.02430433	117518.49481890	40.96407487 -98.3800		
334	334	P-334	GIUD	85/1 ST	Wood	Earth	Yes	No	Vertical	1063A	113374.76662700	117518.37309999	40.96407414 -98.3792		
333	333	P-333	GIUD	85/1 ST	Wood	Earth	Yes	No	Vertical	1063A	113608.41839066	117517.81962340	40.96407223 -98.3783		
332	332	P-332	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063A	113838.93170916	117515.87671390	40.96406649 -98.3775		
331	331	P-331	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063A	114064.89549608	117513.97219016	40.96406087 -98.3767		
206	206	P-206	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063A	114297.93374391	117512.00762715	40.96405506 -98.3758		
205	205	P-205	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063A	114528.70263933	117510.06242107	40.96404930 -98.3750		
204	204	P-204	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063A	114759.22514416	117508.11951157	40.96404354 -98.3741		
203	203	P-203	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063A	114990.48780499	117506.17004041	40.96403776 -98.3733		
202	202	P-202	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063A	115218.98144250	117503.63887749	40.96403038 -98.3725		
105	105	P-105	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063A	111301.68908025	117519.47152299	40.96408044 -98.3867 40.96402251 -98.3716		
201 200	201 200	P-201 P-200	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical Vertical	1063A 1063A	115450.24705608 115680.51299975	117500.93350232 117498.23961007	40.96402251 -98.3716		
				80/1 ST	Wood	Earth	Yes	No							
199 198	199 198	P-199	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063A	115911.25761700	117497.03423191	40.96401091 -98.3700		
197	197	P-198 P-197	GIUD	80/1 VD 80/1 VD	Wood Wood	Earth Earth	Yes Yes	No No	Vertical Vertical	1063A 1063A	116141.54390183 116372.24127508	117495.83082224 117434.55601040	40.96400714 -98.3691 40.96383851 -98.3683		
196	196	P-196	GIUD	80/1 VD	Wood	Earth	Yes	No	Vertical	1063A	116603.45997275	117432.22136941	40.96383163 -98.3675		
195	195	P-195	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063A	116833.45262299	117429.89952365	40.96382478 -98.3666		
194	194	P-194	GIUD	80/15T	Wood	Earth	Yes	No	Vertical	1063A	117064.06108566	117427.57078815	40.96381790 -98.3658		
193	193	P-193	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063A	117294.66692366	117425.24270882	40.96381102 -98.3650		
192	192	P-192	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063A	117524.45878691	117422.92217541	40.96380416 -98.3641		
104	104	P-104	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063A	111533.04262016	117519.34914791	40.96407976 -98.3858		
191	191	P-191	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063A	117756.48456958	117420.57966041	40.96379722 -98.3633	4459 C-30)
190	190	P-190	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063A	117985.66193274	117418.26568866	40.96379037 -98.3625		Į
189	189	P-189	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063A	118215.85897891	117415.94121824	40.96378347 -98.3616	8146 C-32	2
188	188	P-188	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063A	118446.25943675	117413.61477932	40.96377657 -98.3608		
187	187	P-187	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063A	118676.04834725	117411.29457399	40.96376967 -98.3600		
186	186	P-186	GIUD	85/1 ST	Wood	Earth	Yes	No	Vertical	1063A	118905.98095825	117409.41137566	40.96376397 -98.3591		
185	185	P-185	GIUD	90/1 ST	Wood	Earth	Yes	No	Vertical	1063A	119156.99325150	117407.36249524	40.96375776 -98.3582	7416 C-36	j
184	184	P-184	GIUD	90/1 ST	Wood	Earth	Yes	No	Vertical	1063A	119382.91438758	117405.51801074	40.96375216 -98.3574		
183	183	P-183	GIUD	90/1 ST	Wood	Earth	Yes	No	Vertical	1063A	119620.47723266	117403.57871015	40.96374627 -98.3565		
182	182	P-182	GIUD	90/1 ST	Wood	Earth	Yes	No	Vertical	1063A	119856.64309891	117401.65056440	40.96374041 -98.3557		
103	103	P-103	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063A	111763.06512599	117519.22742899	40.96407908 -98.3850		
181	181	P-181	GIUD	90/1 ST	Wood	Earth	Yes	No	Vertical	1063A	120091.98547599	117399.72930840	40.96373456 -98.3548		
180	180	P-180	GIUD	90/1 VD	Wood	Earth	Yes	No	Vertical	1063A	120325.10640083	117397.82609699	40.96372876 -98.3540		
179	179	P-179	GIUD	85/1 ST	Wood	Earth	Yes	No	Vertical	1063A	120327.81013558	117181.23893174	40.96313435 -98.3540		
178	178	P-178	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063A	120328.05226108	116967.29874282	40.96254721 -98.3540		
177	177	P-177	GIUD	80 H1 SSTM	Steel	Concrete	Yes	No	Vertical	1063A	120328.29405849	116753.81163699	40.96196132 -98.3540		
176	176	P-176	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063A	120328.53651208	116540.05845557	40.96137470 -98.3540		
175	175	P-175	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063A	120328.77830949	116326.29936866	40.96078805 -98.3540	3532 C-46	j
174	174	P-174	GIUD	70 Dead End	Steel	Concrete Foundation	Yes	No	Vertical	1063A	120329.04963441	116086.93993924	40.96013116 -98.3540		,
102	102	P-102	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063A	111994.41505700	117519.10472582	40.96407839 -98.3842		
101	101	P-101	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063A	112222.67772383	117518.98366307	40.96407770 -98.3833		
100	100	P-100	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063A	112453.81833766	117518.86128799	40.96407700 -98.3825		
99	99	P-99	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063A	112683.86052850	117518.73924099	40.96407630 -98.3817		
98	98	P-98	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063A	112914.54084141	117518.61686590	40.96407558 -98.3808		
1471	1471	P-1471	GIUD		Steel	Concrete	Yes	No	Vertical	1063A	110902.72432699	110862.94973107	40.94581285 -98.3881		
1462	1462	P-1462	GIUD	85-H5 SDBPT	Steel	Concrete	Yes	No	Vertical	1063A	110884.32836641	112906.06473932	40.95142001 -98.3882	3334 F-10)
1461	1461	P-1461	GIUD	85-H5 SDBPT	Steel	Concrete	Yes	No	Vertical	1063A	110882.21649399	113139.42549307	40.95206045 -98.3882		
1460	1460	P-1460	GIUD	85-H3 SDBPA	Steel	Concrete	Yes	No	Vertical	1063A	110874.33560425	113347.22363391	40.95263074 -98.3882	6869 F-12	1
1459	1459	P-1459	GIUD	85-H3 SDBPA	Steel	Concrete	Yes	No	Vertical	1063A	110846.52463625	113582.76942266	40.95327721 -98.3883		
1458	1458	P-1458	GIUD	85-H5 SDBPT	Steel	Concrete	Yes	No	Parallel	1063A	110851.07219933	113786.08069582	40.95383517 -98.3883		
1457	1457	P-1457	GIUD	85-H5 SDBPT	Steel	Concrete	Yes	No	Parallel	1063A	110849.99116474	113937.34122007	40.95425029 -98.3883		,
1456	1456	P-1456	GIUD	85-H5 SDBPT	Steel	Concrete	Yes	No	Parallel	1063A	110848.13322883	114195.11596699	40.95495773 -98.3883	6195 F-16	j
1455	1455	P-1455	GIUD	85-H5 SDBPT	Steel	Concrete	Yes	No	Parallel	1063A	110846.34484658	114429.86812215	40.95560199 -98.3883		
1454	1454	P-1454	GIUD	85-H5 SDBPT	Steel	Concrete	Yes	No	Parallel	1063A	110844.51250116	114670.31580399	40.95626188 -98.3883	7418 F-18	i
1453	1453	P-1453	GIUD	85-H5 SDBPT	Steel	Concrete	Yes	No	Parallel	1063A	110842.70312158	114907.85174624	40.95691377 -98.3883	8028 F-19	,
1470	1470	P-1470	GIUD	85-H5 SDBPT	Steel	Concrete	Yes	No	Vertical	1063A	110900.86704725	111078.39254165	40.94640411 -98.3881	.7689 F-2	
2171	2171	P-2171	GIUD	85-H5 SDBPT	Steel	Concrete	Yes	No	Parallel	1063A	110840.87897824	115147.25021757	40.95757078 -98.3883	8644 F-20	j
2170	2170	P-2170	GIUD	85-H5 SDBPT	Steel	Concrete	Yes	No	Parallel	1063A	110839.14965099	115374.27502599	40.95819383 -98.3883	9228 F-21	
2169	2169	P-2169	GIUD	85-H5 SDBPT	Steel	Concrete	Yes	No	Parallel	1063A	110837.24020600	115624.92478716	40.95888172 -98.3883	9873 F-22	:
2168	2168	P-2168	GIUD	85-H5 SDBPT	Steel	Concrete	Yes	No	Parallel	1063A	110835.43115450	115862.34458791	40.95953329 -98.3884	0483 F-23	j
2167	2167	P-2167	GIUD	85-H6 SDBPT	Steel	Concrete	Yes	No	Parallel	1063A	110833.62604000	116099.25815607	40.96018348 -98.3884	1093 F-24	
2166	2166	P-2166	GIUD	85-H5 SDBPT	Steel	Concrete	Yes	No	Parallel	1063A	110834.83896408	116339.59953891	40.96084307 -98.3884	0609 F-25	,
2165	2165	P-2165	GIUD	85-H5 SDBPT	Steel	Concrete	Yes	No	Parallel	1063A	110835.85044499	116575.67747882	40.96149096 -98.3884	0199 F-26	í
2164	2164	P-2164	GIUD	85-H5 SDBPT	Steel	Concrete	Yes	No	Parallel	1063A	110836.87537733	116814.91847015	40.96214753 -98.3883	9783 F-27	
2163	2163	P-2163	GIUD	85-H5 SDBPT	Steel	Concrete	Yes	No	Parallel	1063A	110837.89013908	117051.71031941	40.96279738 -98.3883		
2162	2162	P-2162	GIUD	95-H6 SDBPT	Steel	Concrete	Yes	No	Parallel	1063A	110836.23889566	117275.15869141	40.96341062 -98.3883		
1469	1469	P-1469	GIUD	85-H5 SDBPT	Steel	Concrete	Yes	No	Vertical	1063A	110898.76337691	111310.86976699	40.94704213 -98.3881		
2161	2161	P-2161	GIUD	95 SDTD	Steel	Concrete Foundation	Yes	No	Vertical	1063A	110834.39998858	117524.03352174	40.96409363 -98.3884		
1468	1468	P-1468	GIUD	85-H5 SDBPT	Steel	Concrete	Yes	No	Vertical	1063A	110896.68792174	111540.22495132	40.94767157 -98.3881 40.94828201 -98.3881		
1467	1467	P-1467	GIUD	85-H5 SDBPT	Steel	Concrete	Yes	No	Vertical	1063A	110894.67513049	111762.65232799			
1466	1466	P-1466	GIUD	85-H5 SDBPT	Steel	Concrete	Yes	No	Vertical	1063A	110892.58786433	111993.30016065	40.94891500 -98.3882		
1465	1465	P-1465	GIUD	85-H5 SDBPT	Steel	Concrete	Yes	No	Vertical	1063A	110890.53537500	112220.14583557	40.94953756 -98.3882		
1464	1464	P-1464	GIUD	85-H5 SDBPT	Steel	Concrete	Yes	No	Vertical	1063A	110888.45237391	112450.34681874	40.95016933 -98.3882 40.95079496 -98.3882		
1463	1463	P-1463	GIUD	85-H5 SDBPT	Steel Ductile Iron	Concrete	Yes	No	Vertical	1063A	110886.38938591 110981.32587583	112678.31355441 103216.86397341			
225 224	225 224	P-225	GIUD	80 H2	Ductile Iron Ductile Iron	White Rock	Yes	No	Vertical	1063B	110981.32587583	103216.86397341	40.92482874 -98.3879		
		P-224	GIUD	80 H2		White Rock	Yes	No	Vertical	1063B			40.92571800 -98.3879		
223 222	223 222	P-223 P-222	GIUD	80/1 ST 80 SST	Wood	Earth	Yes	No	Vertical Vertical	1063B 1063B	110978.35573741	103662.68001091 103898.11293899	40.92605225 -98.3879 40.92669838 -98.3879		
					Steel	White Rock	Yes	No			110976.06046641				
221 220	221 220	P-221	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063B	110973.93054941	104116.57674091	40.92729794 -98.3879 40.92792282 -98.3879		
		P-220	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063B	110971.71040950	104344.26952699			
219	219	P-219 P-218	GIUD	80 SST 80/1 ST	Steel	White Rock	Yes	No No	Vertical	1063B	110969.42727758	104578.47312682	40.92856558 -98.3879		
218 217	218 217	P-218	GIUD	80/1 ST	Wood	Earth White Book	Yes	No	Vertical	1063B	110967.27636325	104799.09637324	40.92917106 -98.3879		
217	217	P-217 P-216	GIUD	80 SST 80/1 ST	Steel Wood	White Rock Earth	Yes Yes	No No	Vertical Vertical	1063B 1063B	110965.00208958 110962.85806499	105032.37051299 105252.26935141	40.92981127 -98.3879 40.93041476 -98.3879		
215	215	P-216 P-215	GIUD	80/15T 80/15T	Wood	Earth	Yes	No No	Vertical	1063B 1063B	110962.85806499	105252.26935141	40.93041476 -98.3879		
215 214	215	P-215 P-214	GIUD	80/1 ST 80/1 ST	Wood Wood	Earth Earth	Yes Yes	No No	Vertical Vertical	1063B 1063B	110960.64448674	1054/9.31646949	40.93103788 -98.3879 40.93165654 -98.3879		
214	214	P-214 P-213													
213 212	213	P-213 P-212	GIUD	80/1 ST 80/1 ST	Wood	Earth Earth	Yes	No No	Vertical	1063B	110955.58675408	105928.64824799	40.93227103 -98.3879		
212	212	P-212 P-211	GIUD	80/1 ST 80/1 ST	Wood Wood	Earth Earth	Yes	No No	Vertical Vertical	1063B 1063B	110953.18091900	106151.77050515	40.93288338 -98.3879		
				80/1 ST 80/1 ST			Yes			1063B	110950.77869283	106374.63423266	40.93349501 -98.3880		
210 209	210 209	P-210 P-209	GIUD	80/1 ST 80/1 ST	Wood Wood	Earth Earth	Yes Yes	No No	Vertical Vertical	1063B 1063B	110948.43420933 110945.97817750	106592.05636999 106819.87185924	40.93409171 -98.3880 40.93471693 -98.3880		
209	209	P-209 P-208	GIUD	80/15T	Wood	Earth	Yes	No	Vertical	1063B	110943.57496708	107042.74510115	40.93532859 -98.3880		
208	208	P-208 P-207	GIUD	80/15T 80/1ST	Wood	Earth	Yes	No No	Vertical	1063B	110943.57496708	107265.24006299	40.93532859 -98.3880		
2182	2182	P-207 P-2182	GIUD	80/15T	Wood	Earth	Yes	No	Vertical	1063B	110941.17634983	107488.75503591	40.93655263 -98.3880		
2182	2182	P-2182 P-2181	GIUD	80/15T	Wood	Earth	Yes	No	Vertical	1063B	110936.34991591	107712.86974516	40.93716770 -98.3880		
2181	2180	P-2181 P-2180	GIUD	80/15T	Wood	Earth	Yes	No	Vertical	1063B	110933.95556375	107712.86974516	40.93777723 -98.3880		
2179	2179	P-2180 P-2179	GIUD	80/15T	Wood	Earth	Yes	No	Vertical	1063B	110932.33155125	108085.60259549	40.93819064 -98.3880		
2295	2295	P-2295	GIUD	80/13T	Wood	Earth	Yes	No	Vertical	1063B	110932.33133123	108230.65283033	40.93858871 -98.3880		
2178	2178	P-2178	GIUD	80/13T	Wood	Earth	Yes	No	Vertical	1063B	110931.31101483	108381.16598074	40.939300179 -98.3880		
				,		•							30.3000	5 123	

2177	2177	P-2177	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063B	110927.46246650	108600.56514824	40.93960391		B-124
2176	2176	P-2176	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063B	110924.94836391	108830.28680166	40.94023436		B-125
2175	2175	P-2175	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063B	110922.48052108	109055.76699374	40.94085318		B-126
2174	2174	P-2174	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063B	110920.02973858	109279.67566665	40.94146768		B-127
2173	2173	P-2173	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063B	110917.55861491	109505.46819407	40.94208735		B-128
2172	2172	P-2172	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063B	110915.09831800	109730.29681265	40.94270437		B-129
1473	1473	P-1473	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063B	110912.63014708	109955.79439315	40.94332323		B-130
1472	1472	P-1472	GIUD	80/1 ST	Wood	Earth	Yes	No	Vertical	1063B	110910.18527008	110179.14926141	40.94393621		B-131
67	67	P-67	GIUD	85 SVD	Steel	Concrete Foundation	Yes	No	Vertical	1064A	132160.04270466	102952.25951574	40.92404690		E-1
122	122	P-122	GIUD	91 SST	Steel	Concrete	Yes	No	Vertical	1064A	131970.29045950	100899.05266415	40.91841278		E-10
121	121	P-121	GIUD	91 SST	Steel	Concrete	Yes	No	Vertical	1064A	131773.96276816	101002.92942490	40.91869861		E-11
120	120	P-120	GIUD	80 SVD	Steel	Concrete Foundation	Yes	No	Vertical	1064A	131576.82799183	101107.23367824	40.91898561		E-12
2148	2148	P-2148	GIUD	95 SST	Steel	Concrete	Yes	No	Vertical	1064A	131577.01565550	100909.09693541	40.91844184		E-162
2147	2147	P-2147	GIUD	75 SVD	Steel	Concrete Foundation	Yes	No	Vertical	1064A	131576.21480408	100766.42169582	40.91805028		E-163
2146	2146	P-2146	GIUD	80 SST	Steel	Concrete	Yes	No	Vertical	1064A	131361.25591641	100885.76233640	40.91837861		E-164
2145	2145	P-2145	GIUD	80 SST	Steel	Concrete	Yes	No	Vertical	1064A	131149.65463358	101003.23913557	40.91870180		E-165
2144	2144	P-2144	GIUD	80 SST	Steel	Concrete	Yes	No	Vertical	1064A	130932.20362491	101123.96330357	40.91903392		E-166
2143	2143	P-2143	GIUD	80 SST	Steel	Concrete	Yes	No	Vertical	1064A	130711.64074583	101246.41515841	40.91937079	-98.31651936	E-167
2142	2142	P-2142	GIUD	80 SST	Steel	Concrete	Yes	No	Vertical	1064A	130498.81111899	101364.57371474	40.91969585		E-168
2141	2141	P-2141	GIUD	80 SST	Steel	Concrete	Yes	No	Vertical	1064A	130286.41456216	101482.49178599	40.92002023		E-169
2140	2140	P-2140	GIUD	80 SST	Steel	Concrete	Yes	No	Vertical	1064A	130071.19091124	101601.97907982	40.92034893		E-170
2139	2139	P-2139	GIUD	90 SST	Steel	Concrete	Yes	No	Vertical	1064A	129859.28516708	101719.62451382	40.92067256		E-171
2138	2138	P-2138	GIUD	85 SDVN	Steel	Concrete Foundation	Yes	No	Vertical	1064A	129642.28658533	101840.09736999	40.92100396		E-172
2137	2137	P-2137	GIUD	80 SST	Steel	Concrete	Yes	No	Vertical	1064A	128518.18712750	101955.79366091	40.92132539		E-177
1108	1108	P-1108	GIUD	70 SVDN	Steel	Concrete Foundation	Yes	No	Vertical	1064A	128250.32939550	101983.53081015	40.92140242		E-178
66	66	P-66	GIUD	109 SDT	Steel	Concrete	Yes	No	Parallel	1064A	132172.96361058	102682.33059365	40.92330606		E-2
65	65	P-65	GIUD	96 SDT	Steel	Concrete	Yes	No	Parallel	1064A	132172.13749675	102412.96794341	40.92256682		E-3
64	64	P-64	GIUD	96 SDT	Steel	Concrete	Yes	No	Parallel	1064A	132171.30777400	102142.55378607	40.92182470		E-4
63	63	P-63	GIUD	96 SDT	Steel	Concrete	Yes	No	Parallel	1064A	132170.47509849	101871.29087716	40.92108024		E-5
62	62	P-62	GIUD	96 SDT	Steel	Concrete	Yes	No	Parallel	1064A	132169.63717366	101598.08046557	40.92033044		E-6
61	61	P-61	GIUD	96 SDT	Steel	Concrete	Yes	No	Parallel	1064A	132168.80843516	101327.99242307	40.91958921		E-7
60	60	P-60	GIUD	96 SDT	Steel	Concrete	Yes	No	Parallel	1064A	132167.97346308	101055.82039524	40.91884226		E-8 F-9
59	59	P-59	GIUD	80 SVD	Steel	Concrete Foundation	Yes	No	Vertical	1064A	132139.82325691	100809.35271232	40.91816596		E-9
18582	18582	P-18582	GIUD	95 SST	Steel	Concrete	Yes	No	Vertical	1064A	129500.04343149 128764.19188483	101854.12260441	40.92104295		
18587	18587	P-18587	GIUD	80 SST	Steel	Concrete	Yes	No	Vertical	1064A		101930.31963049			
18588	18588	P-18588	GIUD	80 SST	Steel	Concrete	Yes	No	Vertical	1064A	129009.40628941	101904.92729282	40.92118410		
18589	18589	P-18589	GIUD	85 SST 80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064A	129255.72010124	101879.42111024	40.92111324		C 400
2160	2160	P-2160	GIUD		Steel	Concrete	Yes	No	Vertical	1064B	127026.40270950	110268.76817665	40.94414455		C-100
2159	2159	P-2159	GIUD	80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	127245.85994774	110265.94141065	40.94413608		C-101
2158	2158	P-2158	GIUD	80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	127464.94940458	110263.44239990	40.94412850		C-102
2157	2157	P-2157	GIUD	80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	127685.02737650	110260.81773324	40.94412057		C-103
629	629	P-629	GIUD	70 SVDP	Steel	Concrete Foundation	Yes	No	Vertical	1064B	127892.82420500	110257.75605957	40.94411147		C-104
628	628	P-628	GIUD	80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	128080.61844883	110374.11343841	40.94443017		C-105
627	627	P-627	GIUD	75 SVMA	Steel	Concrete	Yes	No	Vertical	1064B	128262.12530366	110490.63354657	40.94474933		C-106
626	626	P-626	GIUD	85-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	128488.83055891	110484.15619732	40.94473079		C-107
625	625	P-625	GIUD	80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	128724.36847366	110483.03448041	40.94472690		C-108
624	624	P-624	GIUD	80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	128938.31784891	110481.53021833	40.94472203		C-109
623	623	P-623	GIUD	80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	129163.50539066	110479.92917165	40.94471686		C-110
622	622	P-622	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	129388.17456074	110478.14505449	40.94471117		C-111 C-112
621	621	P-621	GIUD	75 SVD	Steel	Concrete Foundation	Yes	No	Vertical	1064B	129615.11308325	110472.66999982	40.94469535		
620	620	P-620	GIUD		F Steel	Concrete	Yes	No	Vertical	1064B	129618.17738158	110236.25413407	40.94404651		C-113
619	619 618	P-619	GIUD	80-H2 SBPT	Steel Steel	Concrete	Yes	No	Vertical	1064B	129617.53597866	110012.22046141	40.94343168		C-114 C-115
618	617	P-618	GIUD	80-H2 SBPT		Concrete	Yes	No	Vertical	1064B	129616.66393316	109778.61594174	40.94279058		C-115 C-116
617 616	616	P-617 P-616	GIUD	80-H2 SBPT 80-H2 SBPT	Steel Steel	Concrete	Yes Yes	No No	Vertical Vertical	1064B 1064B	129615.38112733 129614.80927808	109543.88248732 109309.20546324	40.94214638		C-116 C-117
615	615	P-615	GIUD	80-H2 SBPT	Steel	Concrete Concrete	Yes	No	Vertical	1064B	129613.62916233	109309.20346324	40.94150255		C-117 C-118
	614														C-118
614 613	613	P-614 P-613	GIUD	80-H2 SBPT 80-H2 SBPT	Steel Steel	Concrete Concrete	Yes Yes	No No	Vertical Vertical	1064B 1064B	129612.38014908	108838.10273091 108604.75346007	40.94020944		C-119
											129611.44675200				
612	612	P-612	GIUD	80-H2 SBPT	Steel	Concrete Concrete Foundation	Yes	No	Vertical	1064B	129610.38343391	108370.29690799	40.93892560		C-121
611	611 610	P-611 P-610	GIUD	70 SVD	Steel Steel	Concrete Foundation	Yes	No	Vertical	1064B 1064B	129614.57305808	108135.93976516	40.93828242		C-122 C-123
610	609	P-610 P-609	GIUD	80-H2 SBPT		Concrete	Yes	No	Vertical		129819.61956400 130024.09815766	108127.15106882	40.93825757		C-123 C-124
609			GIUD	80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B		108123.77312282			
608 607	608 607	P-608 P-607	GIUD	80-H2 SBPT 80-H2 SBPT	Steel Steel	Concrete Concrete	Yes Yes	No No	Vertical Vertical	1064B 1064B	130229.14630400 130434.45593274	108120.53165949 108117.43783365	40.93823793		C-125 C-126
	606	P-606		70 SVD	Steel			No				108117.43783303			C-120
606 605	605	P-605	GIUD	85 SST	Steel	Concrete Foundation Concrete	Yes Yes	No	Vertical Vertical	1064B 1064B	130637.19732516 130633.25081075	107864.22180466	40.93822901		C-127 C-128
													40.93680731		
604 603	604 603	P-604 P-603	GIUD	85 SVDN 105 SST	Steel Steel	Concrete Foundation Concrete	Yes Yes	No No	Vertical Vertical	1064B 1064B	130629.13566149 130672.55289749	107599.77482699 107515.43116365	40.93657568		C-129 C-130
602	602	P-602	GIUD	115 SST	Steel	Concrete	Yes	No	Vertical	1064B	130796.42896208	107264.22005191	40.93588580		C-130
601	601	P-601	GIUD	100 SVDN	Steel	Concrete Foundation	Yes	No	Vertical	1064B	130902.95762041	107264.22003191	40.93532709		C-131
600	600	P-600	GIUD	105 SST	Steel	Concrete	Yes	No	Vertical	1064B	130902.26077141	106849.21136749	40.93474646		C-132
599	599	P-599	GIUD	95 SST Fiber	Steel	Concrete	Yes	No	Vertical	1064B	130901.54620591	106632.18949182	40.93415086		C-133
598	598	P-598	GIUD			Concrete	Yes	No	Vertical	1064B	130900.82442258	106413.00718740	40.93354934		C-135
597	597	P-597	GIUD	85 SST	Steel Steel	Concrete	Yes	No	Vertical	1064B	130900.82442238	106200.03615665	40.93296487		C-135
596	596	P-596	GIUD	80 SST	Steel	Concrete	Yes	No	Vertical	1064B	130902.02094249	105954.38474507	40.93229069		C-137
595	595	P-595	GIUD	80 SST	Steel	Concrete	Yes	No	Vertical	1064B	130902.54095458	105712.05747382	40.93162564		C-138
594	594	P-594	GIUD	90 SST	Steel	Concrete	Yes	No	Vertical	1064B	130903.05801391	105471.25513390	40.93096478		C-139
593	593	P-593	GIUD	90 SST	Steel	Concrete	Yes	No	Vertical	1064B	130903.55932524	105234.64865174	40.93031544		C-140
592	592	P-592	GIUD	80 SST	Steel	Concrete	Yes	No	Vertical	1064B	130902.94121625	105000.62746624	40.92967319		C-141
591	591	P-591	GIUD	80 SST	Steel	Concrete	Yes	No	Vertical	1064B	130902.13741208	104767.60759107	40.92903369		C-142
590	590	P-590	GIUD	80 SST	Steel	Concrete	Yes	No	Vertical	1064B	130900.92022291	104532.86921541	40.92838948	-98.31581856	C-143
589	589	P-589	GIUD	80 SST	Steel	Concrete	Yes	No	Vertical	1064B	130899.92383383	104298.18103649	40.92774540	-98.31582331	C-144
588	588	P-588	GIUD	80 SST	Steel	Concrete	Yes	No	Vertical	1064B	130898.81688066	104063.07520749	40.92710018		C-145
2156	2156	P-2156	GIUD	80 SST	Steel	Concrete	Yes	No	Vertical	1064B	130897.64070191	103828.54319624	40.92645653		C-146
2155	2155	P-2155	GIUD	80 SST	Steel	Concrete	Yes	No	Vertical	1064B	130897.41596483	103593.59779999	40.92581174		C-147
2154	2154	P-2154	GIUD	80 SST	Steel	Concrete	Yes	No	Vertical	1064B	130895.50323899	103359.49032857	40.92516927	-98.31584387	C-148
2153	2153	P-2153	GIUD	80 SST	Steel	Concrete	Yes	No	Vertical	1064B	130894.70927733	103125.20208324	40.92452628	-98.31584788	C-149
2152	2152	P-2152	GIUD	70 SVD	Steel	Concrete Foundation	Yes	No	Vertical	1064B	130894.32509175	102965.78311074	40.92408878		C-150
2151	2151	P-2151	GIUD	91 SST	Steel	Concrete	Yes	No	Vertical	1064B	131094.41819550	102963.94814066	40.92408300		C-151
2150	2150	P-2150	GIUD	91 SST	Steel	Concrete	Yes	No	Vertical	1064B	131334.02992100	102961.53344733	40.92407548	-98.31425909	C-152
2149	2149	P-2149	GIUD	91 SST	Steel	Concrete	Yes	No	Vertical	1064B	131580.80370566	102959.02689066	40.92406768		C-153
173	173	P-173	GIUD	80-H7 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	120774.71540974	116087.37530582	40.96013123		C-49
172	172	P-172	GIUD	80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	121002.67361525	116089.77097032	40.96013722		C-50
171	171	P-171	GIUD	80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	121231.35885341	116091.32444490	40.96014090		C-51
170	170	P-170	GIUD	80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	121457.48012033	116093.88907232	40.96014735		C-52
169	169	P-169	GIUD	80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	121684.28806566	116096.15481582	40.96015297		C-53
168	168	P-168	GIUD	80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	121910.04909708	116093.83953174	40.96014601		C-54
167	167	P-167	GIUD	80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	122136.73269883	116091.20797532	40.96013818		C-55
166	166	P-166	GIUD	80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	122365.80737191	116088.28704941	40.96012955		C-56
165	165	P-165	GIUD	80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	122592.65370300	116086.02491482	40.96012272		C-57
164	164	P-164	GIUD	80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	122818.74642666	116083.89598207	40.96011625		C-58
163	163	P-163	GIUD	80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	123057.27383675	116081.10071207	40.96010792		C-59
162	162	P-162	GIUD	80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	123271.62708258	116078.77033616	40.96010092		C-60
161	161	P-161	GIUD	80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	123498.65714033	116076.38812307	40.96009374		C-61
160	160	P-160	GIUD	80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	123726.95491208	116073.86155332	40.96008615		C-62
159	159	P-159	GIUD	80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	123953.98070475	116070.91831774	40.96007741	-98.34091203	C-63
158	158	P-158	GIUD	80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	124181.42217899	116067.81563365	40.96006824	-98.34008865	C-64
157	157	P-157	GIUD	80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	124410.40433258	116065.08663649	40.96006007	-98.33925969	C-65
156	156	P-156	GIUD	80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	124637.75656816	116062.49543432	40.96005229		C-66
155	155	P-155	GIUD	80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	124865.78137458	116059.29334099	40.96004282		C-67

154	154	P-154	GIUD	80-H2 SBPT 80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	125091.08702633	116056.52661424	40.96003455 40.96002482		C-68
153 152	153 152	P-153 P-152	GIUD	80-H2 SBPT	Steel Steel	Concrete Concrete	Yes Yes	No No	Vertical Vertical	1064B 1064B	125328.65905774 125544.88270666	116053.24840557 116050.55877841	40.96002482		C-69 C-70
8261	8261	P-8261	GIUD	70 SVD	Steel	Concrete Foundation	Yes	No	Vertical	1064B	125771.35272616	116046.11882666	40.96000389		C-71
151	151	P-151	GIUD	80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	125787.13944000	115819.14913624	40.95938095		C-72
150 149	150 149	P-150	GIUD	80-H2 SBPT 80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B 1064B	125797.51015416 125807.74504183	115591.39959174 115363.46664865	40.95875588 40.95813031		C-73 C-74
149	149	P-149 P-148	GIUD	80-H2 SBPT	Steel Steel	Concrete Concrete	Yes Yes	No No	Vertical Vertical	1064B	125807.74504183	115148.82403332	40.95813031		C-74 C-75
147	147	P-147	GIUD	70 SVMA	Steel	Concrete Foundation	Yes	No	Vertical	1064B	125825.56980933	114910.59911607	40.95688741		C-76
146	146	P-146	GIUD	70 SVMA	Steel	Concrete Foundation	Yes	No	Vertical	1064B	125938.55416341	114812.64852457	40.95661824		C-77
145 144	145 144	P-145	GIUD	80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	125947.44620600	114568.00170416	40.95594681		C-78 C-79
144	143	P-144 P-143	GIUD	80-H2 SBPT 80-H2 SBPT	Steel Steel	Concrete Concrete	Yes Yes	No No	Vertical Vertical	1064B 1064B	125958.19618450 125968.55443149	114330.47265165 114091.78480882	40.95529490 40.95463981		C-79
142	142	P-142	GIUD	80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	125979.21057816	113853.28462966	40.95398524		C-81
141	141	P-141	GIUD	80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	125989.83490074	113614.48392615	40.95332984		C-82
140 139	140 139	P-140 P-139	GIUD	80-H2 SBPT 80-H2 SBPT	Steel Steel	Concrete Concrete	Yes Yes	No No	Vertical Vertical	1064B 1064B	126000.84406508 126012.12488241	113375.74719890 113136.79393665	40.95267462 40.95201880		C-83 C-84
138	138	P-138	GIUD	80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	126023.91094808	112902.97222582	40.95137706		C-85
137	137	P-137	GIUD	80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	126034.93520425	112659.75059941	40.95070953		C-86
136	136	P-136	GIUD	80-H2 SBPT 80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	126046.07986699	112422.38690090	40.95005807 40.94940078		C-87
135 134	135 134	P-135 P-134	GIUD	80-H2 SBPT 80-H2 SBPT	Steel Steel	Concrete Concrete	Yes Yes	No No	Vertical Vertical	1064B 1064B	126057.20025158 126068.61755158	112182.89426965 111944.36653149	40.94940078		C-88 C-89
133	133	P-133	GIUD	80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	126078.99515549	111708.70952249	40.94809935		C-90
132	132	P-132	GIUD	80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	126089.81731233	111478.40584924	40.94746727		C-91
131 130	131 130	P-131 P-130	GIUD	85-H2 SBPT 90-H3 SBPT	Steel Steel	Concrete Concrete	Yes Yes	No No	Vertical Vertical	1064B 1064B	126101.03973083 126112.27756925	111242.51983807 111001.89958441	40.94681987 40.94615948		C-92 C-93
129	129	P-130	GIUD	90-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	126124.08791308	11001.63938441	40.94547257		C-94
128	128	P-128	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	126133.83658125	110523.11970207	40.94484545		C-95
127	127	P-127	GIUD	70 SVD	Steel	Concrete	Yes	No	Vertical	1064B	126151.19022108	110282.54505199	40.94418516		C-96
126 125	126 125	P-126 P-125	GIUD	80-H2 SBPT 80-H2 SBPT	Steel Steel	Concrete Concrete	Yes Yes	No No	Vertical Vertical	1064B 1064B	126366.53198200 126586.73692216	110276.53554957 110273.58115915	40.94416799 40.94415918		C-97 C-98
124	124	P-124	GIUD	80-H2 SBPT	Steel	Concrete	Yes	No	Vertical	1064B	126806.32703416	110271.06640041	40.94415157		C-99
9	9	P-9	GIUD	76 TYPE E	Steel Lattice Structure	Concrete Foundation	Yes	No	Horizontal	1093	131574.79387516	100649.75788715	40.91773011		11
8	8	P-8	GIUD	71 TYPE F	Steel Lattice Structure	Concrete Foundation	Yes	No	Horizontal	1093	131876.44123774	100480.66701799	40.91726492		12
58 7	58 7	P-58 P-7	GIUD	48 SDEUB 60 SDEUB	Steel Steel	Concrete Foundation Concrete Foundation	Yes Yes	No No	N/A N/A	1093 1093	132442.33741566 132450.39186149	100679.63053082 100696.99663782	40.91780879 40.91785642		14C 14N
57	57	P-57	GIUD	60 SDEUB	Steel	Concrete Foundation	Yes	No	N/A	1093	132434.31380966	100662.51212674	40.91776184		145
56	56	P-56	GIUD	70 SHFT	Steel	Concrete	Yes	Yes	Horizontal	1093	132740.90145108	100529.50583107	40.91739563		15N
55 54	55 54	P-55 P-54	GIUD	70 SHFT 75 SHFT	Steel Steel	Concrete Concrete	Yes Yes	Yes Yes	Horizontal Horizontal	1093 1093	132734.10848566 133065.99102399	100516.69581732 100357.10722574	40.91736050 40.91692122		15S 16N
53	53	P-53	GIUD	75 SHFT	Steel	Concrete	Yes	Yes	Horizontal	1093	133059.19773050	100337.10722374	40.91688609		165
52	52	P-52	GIUD	80 SHFT	Steel	Concrete	Yes	Yes	Horizontal	1093	133380.29879433	100190.42612866	40.91646254		17N
51	51	P-51	GIUD	80 SHFT	Steel	Concrete	Yes	Yes	Horizontal	1093	133373.50517274	100177.61611491	40.91642741		175
50 49	50 49	P-50 P-49	GIUD	80 SHFT 80 SHFT	Steel Steel	Concrete Concrete	Yes Yes	Yes Yes	Horizontal Horizontal	1093 1093	133751.42502058 133744.63139899	99993.61418632 99980.80318832	40.91592092 40.91588579		18N 18S
48	48	P-48	GIUD	75 SHFT	Steel	Concrete	Yes	Yes	Horizontal	1093	134111.24123008	99802.79862307	40.91539580		19N
47	47	P-47	GIUD	75 SHFT	Steel	Concrete	Yes	Yes	Horizontal	1093	134104.44760850	99789.98860932	40.91536067		195
46 45	46	P-46 P-45	GIUD	75 SHFT	Steel	Concrete	Yes	Yes	Horizontal	1093 1093	134480.13517733	99607.17040540	40.91485741		20N 20S
45	45 44	P-45 P-44	GIUD	75 SHFT 80 SHFT	Steel Steel	Concrete Concrete	Yes Yes	Yes Yes	Horizontal Horizontal	1093	134473.34188383 134857.59078725	99594.35940740 99407.00085824	40.91482228 40.91430651		203 21N
43	43	P-43	GIUD	80 SHFT	Steel	Concrete	Yes	Yes	Horizontal	1093	134850.79749374	99394.19084449	40.91427138		215
42	42	P-42	GIUD	85 SHFT	Steel	Concrete	Yes	Yes	Horizontal	1093	135260.74811741	99193.20108899	40.91371808		22N
41 40	41 40	P-41 P-40	GIUD	85 SHFT 80 SHFT	Steel Steel	Concrete Concrete	Yes Yes	Yes Yes	Horizontal Horizontal	1093 1093	135253.95482391 135693.10223958	99180.39140332 98963.91939532	40.91368295 40.91308702		22S 23N
39	39	P-39	GIUD	80 SHFT	Steel	Concrete	Yes	Yes	Horizontal	1093	135686.30894608	98951.10839732	40.91305189		235
37	37	P-37	GIUD	80 SHFT	Steel	Concrete	Yes	Yes	Horizontal	1093	136059.58969558	98753.15275649	40.91250703		24N
38	38	P-38	GIUD	80 SHFT	Steel	Concrete	Yes	Yes	Horizontal	1093	136066.38298908	98765.96277024	40.91254216		245
35 36	35 36	P-35 P-36	GIUD	80 SHFT 80 SHFT	Steel Steel	Concrete Concrete	Yes Yes	Yes Yes	Horizontal Horizontal	1093 1093	136462.09873308 136468.89333891	98539.69649049 98552.56752774	40.91191949 40.91195478		25N 25S
33	33	P-33	GIUD	80 SHFT	Steel	Concrete	Yes	Yes	Horizontal	1093	136864.36794166	98326.36784890	40.91133228		26N
34	34	P-34	GIUD	80 SHFT	Steel	Concrete	Yes	Yes	Horizontal	1093	136871.16156324	98339.17851882	40.91136741		265
31	31	P-31	GIUD	80 SHFT	Steel	Concrete	Yes	Yes	Horizontal	1093	137268.48983683	98112.05725390	40.91074235 40.91077748		27N
32 29	32 29	P-32 P-29	GIUD	80 SHFT 80 SHFT	Steel Steel	Concrete Concrete	Yes Yes	Yes Yes	Horizontal Horizontal	1093 1093	137275.28345841 137671.72328233	98124.86693957 97898.21647424	40.91077748		27S 28N
30	30	P-30	GIUD	80 SHFT	Steel	Concrete	Yes	Yes	Horizontal	1093	137678.51657583	97911.02615990	40.91018882		285
27	27	P-27	GIUD	80 SHFT	Steel	Concrete	Yes	Yes	Horizontal	1093	138083.86386225	97679.65227882	40.90955202		29N
28 25	28 25	P-28 P-25	GIUD	80 SHFT 85 SHFT	Steel Steel	Concrete Concrete	Yes Yes	Yes Yes	Horizontal Horizontal	1093 1093	138090.65748383 138460.89296383	97692.46229257 97479.70812491	40.90958715 40.90900159		29S 30N
26	26	P-26	GIUD	85 SHFT	Steel	Concrete	Yes	Yes	Horizontal	1093	138467.68625733	97492.51813865	40.90903671		30S
24	24	P-24	GIUD	80 SHFT	Steel	Concrete	Yes	Yes	Horizontal	1093	138888.89013933	97269.14752240	40.90842177		31N
23	23	P-23	GIUD	80 SHFT	Steel	Concrete	Yes	Yes	Horizontal	1093	138882.09684583	97256.33783673	40.90838664		315
22 21	22	P-22 P-21	GIUD	80 SHFT	Steel Steel	Concrete Concrete	Yes Yes	Yes	Horizontal Horizontal	1093 1093	139292.89490874 139286.10128716	97054.89795090 97042.08498441	40.90783191		32N 32S
20	20	P-20	GIUD	80 SHFT	Steel	Concrete	Yes	Yes	Horizontal	1093	139695.25499641	96841.52042490	40.90724444		33N
19	19	P-19	GIUD	80 SHFT	Steel	Concrete	Yes	Yes	Horizontal	1093	139688.46137483	96828.70975499	40.90720931		335
18 97	18 97	P-18 P-97	GIUD	80 SHFT 80 SHFT	Steel Steel	Concrete Concrete	Yes Yes	Yes Yes	Horizontal Horizontal	1093 1093	140060.98622033 140054.19259875	96647.56740074 96634.75738699	40.90671043 40.90667531		34N 34S
96	96	P-96	GIUD	75 SHFT	Steel	Concrete	Yes	Yes	Horizontal	1093	140468.69734716	96431.35162582	40.90611511		35N
95	95	P-95	GIUD	75 SHFT	Steel	Concrete	Yes	Yes	Horizontal	1093	140461.90372558	96418.54062782	40.90607999		35S
94 93	94 93	P-94 P-93	GIUD	80 SHFT 80 SHFT	Steel	Concrete	Yes	Yes	Horizontal Horizontal	1093 1093	140860.86257333	96223.37992890 96210.56893090	40.90554247 40.90550735		36N 36S
93 91	93 91	P-93 P-91	GIUD	65 SDEMA	Steel Steel	Concrete Concrete	Yes Yes	Yes No	N/A	1093	140854.06927983 141246.81062033	96210.56893090	40.90550735		36S 37C
92	92	P-92	GIUD	75 SDEMA	Steel	Concrete	Yes	No	N/A	1093	141250.47104608	96025.04502374	40.90499627		37N
90	90	P-90	GIUD	75 SDEMA	Steel	Concrete	Yes	No	N/A	1093	141243.15019458	95995.95256224	40.90491647		375
89 88	89 88	P-89 P-88	GIUD	80 SHFT 80 SHFT	Steel Steel	Concrete Concrete	Yes Yes	Yes Yes	Horizontal Horizontal	1093 1093	141688.08171941 141688.06662758	96015.35311399 96000.85281491	40.90496754 40.90492774		38N 38S
87	87	P-87	GIUD	75 SHFT	Steel	Concrete	Yes	Yes	Horizontal	1093	142122.77671616	96016.84031574	40.90496948		39N
86	86	P-86	GIUD	75 SHFT	Steel	Concrete	Yes	Yes	Horizontal	1093	142122.82658483	96002.34034474	40.90492968		395
85 84	85 84	P-85 P-84	GIUD	75 SHFT 75 SHFT	Steel Steel	Concrete Concrete	Yes	Yes	Horizontal Horizontal	1093 1093	142556.06128266 142556.11115133	96018.32259624	40.90497138 40.90493159		40N 40S
83	83	P-83	GIUD	75 SHFT	Steel	Concrete	Yes Yes	Yes Yes	Horizontal	1093	142989.01579733	96003.82196907 96019.80225207	40.90493139		403 41N
82	82	P-82	GIUD	75 SHFT	Steel	Concrete	Yes	Yes	Horizontal	1093	142989.06468175	96005.30293724	40.90493347		415
80	80	P-80	GIUD	75 SHFT	Steel	Concrete	Yes	Yes	Horizontal	1093	143415.34466908	96021.25992632	40.90497510		42N
79 78	79 78	P-79 P-78	GIUD	75 SHFT 75 SHFT	Steel Steel	Concrete Concrete	Yes Yes	Yes Yes	Horizontal Horizontal	1093 1093	143415.39486583 143848.74242433	96006.76061149 96022.74286299	40.90493531 40.90497695		42S 43N
77	77	P-77	GIUD	75 SHFT	Steel	Concrete	Yes	Yes	Horizontal	1093	143848.79130875	96008.24223582	40.90493715	-98.26902453	435
76	76	P-76	GIUD	80 SHFT	Steel	Concrete	Yes	Yes	Horizontal	1093	144284.36458458	96024.23170515	40.90497878		44N
75 74	75 74	P-75 P-74	GIUD	80 SHFT 75 SHFSA	Steel Steel	Concrete Concrete	Yes Yes	Yes Yes	Horizontal Horizontal	1093 1093	144284.41478133 144735.29117616	96009.73140607 96025.76319815	40.90493898 40.90498062		44S 45N
73	73	P-73	GIUD	75 SHFSA	Steel	Concrete	Yes	Yes	Horizontal	1093	144736.10679133	96011.28586490	40.90494089		45N 45S
72	72	P-72	GIUD	80 SHFSA	Steel	Concrete	Yes	Yes	Horizontal	1093	145154.28476075	96071.68305382	40.90510444	-98.26430182	46N
71 69	71 69	P-71 P-60	GIUD	80 SHFSA 70 SDELA	Steel	Concrete	Yes	Yes	Horizontal	1093 1093	145156.27655466	96057.32054974 96142.62221640	40.90506501		46S
69 70	69 70	P-69 P-70	GIUD	70 SDELA 80 SDELA	Steel Steel	Concrete Concrete	Yes Yes	No No	N/A N/A	1093 1093	145618.79793933 145604.16575075	96142.62221640 96154.82658833	40.90529665 40.90533022		47C 47N
68	68	P-68	GIUD	80 SDELA	Steel	Concrete	Yes	No	N/A	1093	145633.34712283	96130.48641390	40.90526326	-98.26256852	47S
15281	15281	P-15281	GIUD	85 SVD	Steel	Concrete Foundation	Yes	No	Vertical	1093	132190.09316950	102982.62854949	40.92413013		E-1A
123 3245	123 3245	P-123 P-3245	GIUD	80 SVDN 40/2	Steel Wood	Concrete Foundation Earth	Yes Yes	No No	Vertical Horizontal	1093 1145A	132192.78017199 122364.17220458	100780.98301841 78405.66720482	40.91808790 40.85671258		E-9A DD-55DC
3246	3246	P-3246	GIUD	40/2	Wood	Earth	Yes	No	Horizontal	1145A	122364.22863491	78416.76692016	40.85674305	-98.34680215	DD-55DN
3244	3244	P-3244	GIUD	40/2	Wood	Earth	Yes	No	Horizontal	1145A	122364.11610233	78394.56748949	40.85668212	-98.34680263	DD-55DS

2293	2293	P-2293	GIUD	85/1 H2	Wood	Earth	Yes	Yes	Horizontal	1145A	122588.92503591	78404.52908374	40.85670885	00.34500000
2294	2294	P-2294	GIUD	85/1 H2	Wood	Earth	Yes	Yes	Horizontal	1145A	122589.45193775	78421.02052058	40.85675411	
2292	2292	P-2292	GIUD	85/1 H2	Wood	Earth	Yes	Yes	Horizontal	1145A	122588.39780600	78388.03764690	40.85666359	
2291 2290	2291 2290	P-2291 P-2290	GIUD	85/1 DCTS 85/1 DCTS	Wood Wood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1145A 1145A	122984.73526791 122984.27201425	78399.13211291 78384.64001591	40.85669294 40.85665317	
2289	2289	P-2289	GIUD	85/1 DCTS	Wood	Earth	Yes	Yes	Horizontal	1145A	123380.67607708	78386.47793874	40.85665710	
2288	2288 2287	P-2288	GIUD	85/1 DCTS	Wood	Earth	Yes	Yes	Horizontal	1145A	123380.21282341	78371.98518557 78373.81293782	40.85661733	
2287 2286	2286	P-2287 P-2286	GIUD	85/1 DCTS 85/1 DCTS	Wood Wood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1145A 1145A	123776.91872291 123776.45579733	78359.32084082	40.85662122 40.85658145	
15282	15282	P-15282	GIUD	85/1 H2 AS	Wood	Earth	Yes	No	Horizontal	1145A	124120.22118591	78355.58725249	40.85657021	
2285	2285	P-2285	GIUD	85/1 H2 AS	Wood	Earth	Yes	No	Horizontal	1145A	124140.90257500	78375.19580907		-98.34038031
2284 2283	2284 2283	P-2284 P-2283	GIUD	85/1 H2 AS 85/1 DCTS	Wood Wood	Earth Earth	Yes Yes	No Yes	Horizontal Horizontal	1145A 1145A	124099.53946875 124129.29072158	78335.97836782 77963.71533282	40.85651645 40.85549471	
2282	2282	P-2282	GIUD	85/1 DCTS	Wood	Earth	Yes	Yes	Horizontal	1145A	124114.79107866	77963.64807574	40.85549457	-98.34047627
2281	2281	P-2281	GIUD	85/1 DCTS	Wood	Earth	Yes	Yes	Horizontal	1145A	124131.10928750	77572.01532882	40.85441970	
2280 2279	2280 2279	P-2280 P-2279	GIUD	85/1 DCTS 85/1 DCTS	Wood Wood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1145A 1145A	124116.60964458 124132.92686916	77571.94807174 77180.58271274	40.85441956 40.85334543	
2278	2278	P-2278	GIUD	85/1 DCTS	Wood	Earth	Yes	Yes	Horizontal	1145A	124118.42722625	77180.51512757	40.85334529	
2277	2277	P-2277	GIUD	85/1 DCTS	Wood	Earth	Yes	Yes	Horizontal	1145A	124134.75002825	76787.90502041	40.85226774	
2276 2275	2276 2275	P-2276 P-2275	GIUD	85/1 DCTS 85/1 DCTS	Wood Wood	Earth Earth	Yes Yes	Yes	Horizontal Horizontal	1145A 1145A	124120.25071341 124136.56137633	76787.83743524 76397.84346457	40.85226760 40.85119723	
2274	2274	P-2274	GIUD	85/1 DCTS	Wood	Earth	Yes	Yes	Horizontal	1145A	124122.06140533	76397.77587941	40.85119709	
2272	2272	P-2272	GIUD	85/1 H2	Wood	Earth	Yes	Yes	Horizontal	1145A	124132.50757866	75945.51890991	40.84995587	
2273 2271	2273 2271	P-2273 P-2271	GIUD	85/1 H2 85/1 H2	Wood Wood	Earth Earth	Yes Yes	Yes Yes	Horizontal Horizontal	1145A 1145A	124150.67913025 124114.33537091	75936.04780024 75954.99001957	40.84992982 40.84998191	
3192	3192	P-3192	GIUD	75 SVD Fiber		Concrete Foundation	Yes	No	Vertical	1369	110853.02199858	121465.15752923	40.97490960	
16179	16179	P-16179	GIUD	85-H3 SDBPA	Steel	Concrete	Yes	No	Vertical	1369	110886.33558024	113347.33222949	40.95263102	
16180 16181	16180 16181	P-16180 P-16181	GIUD	85-H3 SDBPA 95-H4 SBPT	Steel Steel	Concrete Concrete	Yes Yes	No No	Vertical Vertical	1369 1369	110858.52428416 110837.53449675	113582.85505240 117769.06485582	40.95327743 40.96476609	-98.38832548 -98.38839367
16182	16182	P-16182	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	110841.18540808	118054.47078107		-98.38837992
16183	16183	P-16183	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	110842.43507750	118346.07256007	40.96634962	
16184	16184 16185	P-16184	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	110843.65882833 110844.89537441	118631.76358974	40.96713367	
16185 16186	16186	P-16185 P-16186	GIUD	85-H3 SBPT 85-H3 SBPT	Steel Steel	Concrete Concrete	Yes Yes	No No	Vertical Vertical	1369 1369	110846.16210416	118920.35454798 119207.75718840	40.96792567 40.96871442	
16187	16187	P-16187	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	110847.42883391	119495.12898899	40.96950308	
16188	16188	P-16188	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	110848.69950066	119783.27965941	40.97029387	
16189 16190	16189 16190	P-16189 P-16190	GIUD	85-H3 SBPT 85-H3 SBPT	Steel Steel	Concrete	Yes Yes	No No	Vertical Vertical	1369 1369	110849.96951124 110851.23263208	120071.46805941 120358.00160708	40.97108477 40.97187113	
16191	16191	P-16191	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	110852.50198650	120645.91113624	40.97266127	
16192	16192	P-16192	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	110853.77002858	120933.55426174	40.97345067	
16193 16194	16193 16194	P-16193 P-16194	GIUD	90-H3 SBPT	Steel Steel	Concrete Concrete	Yes Yes	No No	Vertical Vertical	1369 1369	110854.96129916 110564.49632891	121203.85916732 121464.04631099	40.97419249 40.97490695	
16195	16195	P-16195	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	110304.49032891	121464.41638899	40.97490837	
16196	16196	P-16196	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	109985.28062383	121464.78581082	40.97490976	
16197 16198	16197 16198	P-16197 P-16198	GIUD	85-H3 SBPT 85-H3 SBPT	Steel Steel	Concrete	Yes Yes	No No	Vertical Vertical	1369 1369	109697.59255091 109409.09378408	121465.15293607 121465.52071749	40.97491115 40.97491252	
16198	16198	P-16198 P-16199	GIUD	85-H6 SBPT	Steel	Concrete	Yes	No	Vertical	1369	109409.09378408	121465.88751466	40.97491252	
16200	16200	P-16200	GIUD	85-H4 SBPT	Steel	Concrete	Yes	No	Vertical	1369	108832.90005458	121466.25562415	40.97491524	-98.39564569
16201 16202	16201 16202	P-16201 P-16202	GIUD	85-H4 SBPT 90-H4 SBPT	Steel Steel	Concrete	Yes Yes	No No	Vertical	1369 1369	108544.82221866 108257.85658525	121466.62307749	40.97491658 40.97491791	
16202	16202	P-16202 P-16203	GIUD	90-H4 SBPT	Steel	Concrete Concrete	Yes	No	Vertical Vertical	1369	107960.74628708	121466.98889040 121467.44328582	40.97491791	
16204	16204	P-16204	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	107663.14976941	121467.90883607	40.97492108	
16205	16205	P-16205	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	107366.72713391	121468.37176166	40.97492266	
16206 16207	16206 16207	P-16206 P-16207	GIUD	85-H3 SBPT 85-H3 SBPT	Steel Steel	Concrete Concrete	Yes Yes	No No	Vertical Vertical	1369 1369	107068.60797950 106772.73225891	121468.83731191 121469.29958132	40.97492423 40.97492579	
16208	16208	P-16208	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	106474.29453558	121469.76611582	40.97492735	
16209	16209	P-16209	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	106177.58187441	121470.22936949	40.97492889	
16210 16211	16210 16211	P-16210 P-16211	GIUD	85-H3 SBPT 75 SVD	Steel Steel	Concrete Concrete Foundation	Yes Yes	No No	Vertical Vertical	1369 1369	105880.59887258 105583.91573891	121470.69327932 121472.89471849	40.97493042 40.97493670	
16212	16212	P-16212	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	105588.21067783	121771.15593299	40.97575525	
16213	16213	P-16213	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	105591.00529166	122069.44339415		-98.40738414
16214 16215	16214 16215	P-16214 P-16215	GIUD	85-H3 SBPT 85-H3 SBPT	Steel Steel	Concrete Concrete	Yes Yes	No No	Vertical Vertical	1369 1369	105593.77759583 105596.57975558	122365.32141132 122664.41858216	40.97738586	-98.40737378 -98.40736331
16216	16216	P-16216	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	105599.35698099	122960.84056149	40.97902020	
16217	16217	P-16217	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	105602.15881266	123259.92887408	40.97984101	
16218 16219	16218 16219	P-16218 P-16219	GIUD	85-H3 SBPT 85-H3 SBPT	Steel Steel	Concrete Concrete	Yes Yes	No No	Vertical Vertical	1369 1369	105604.94850525 105607.76116366	123557.68877724 123857.86501416	40.98065818 40.98148197	
16220	16220	P-16220	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	105612.74179675	124175.99593958	40.98235504	
16221	16221	P-16221	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	105615.28739533	124447.71422815	40.98310074	
16222	16222	P-16222	GIUD	85-H6 SBPT	Steel	Concrete	Yes	No	Vertical	1369	105618.26573583	124765.60696507	40.98397316	
16223 16224	16223 16224	P-16223 P-16224	GIUD	85-H4 SBPT 85-H4 SBPT	Steel Steel	Concrete	Yes Yes	No No	Vertical Vertical	1369 1369	105621.08298741 105624.11185275	125066.31108807 125389.57815807	40.98479841 40.98568558	
16225	16225	P-16225	GIUD	85-H4 SBPT	Steel	Concrete	Yes	No	Vertical	1369	105627.08724049	125707.19103990	40.98655723	-98.40724955
16226	16226	P-16226	GIUD	85-H4 SBPT	Steel	Concrete	Yes	No	Vertical	1369	105629.83165758	126000.11663516	40.98736112	
16227 16228	16227 16228	P-16227 P-16228	GIUD	85-H4 SBPT 85-H4 SBPT	Steel Steel	Concrete Concrete	Yes Yes	No No	Vertical Vertical	1369 1369	105632.59379116 105635.34050483	126294.92575682 126588.11742765	40.98817019	-98.40722897 -98.40721870
16229	16229	P-16229	GIUD	85-H4 SBPT	Steel	Concrete	Yes	No	Vertical	1369	105636.91989800	126883.06007924		-98.40721266
16230	16230	P-16230	GIUD	85-H4 SBPT	Steel	Concrete	Yes	No	Vertical	1369	105638.29489525	127184.84294024		-98.40720736
16231 16232	16231 16232	P-16231 P-16232	GIUD	85-H7 SBPT 85-H3 SBPT	Steel Steel	Concrete Concrete	Yes Yes	No No	Vertical Vertical	1369 1369	105639.70565358 105640.92513933	127494.46928949 127762.09900357	40.99146220	-98.40720191 -98.40719720
16233	16233	P-16233	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	105642.28176391	128059.90779115	40.99301397	
16234	16234	P-16234	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	105643.58687941	128346.32290073	40.99380001	
16235 16236	16235 16236	P-16235 P-16236	GIUD	85-H3 SBPT 85-H3 SBPT	Steel Steel	Concrete Concrete	Yes Yes	No No	Vertical Vertical	1369 1369	105644.93267725 105646.26338325	128641.70091891 128933.78793316	40.99461063 40.99541223	
16237	16237	P-16237	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	105647.60754066	129228.77454790	40.99622179	
16238	16238	P-16238	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	105648.92906033	129518.82810166	40.99701780	-98.40716631
16239 16240	16239 16240	P-16239 P-16240	GIUD	85-H3 SBPT 85-H3 SBPT	Steel	Concrete	Yes	No	Vertical Vertical	1369 1369	105650.27649858 105651.60359566	129814.60277257 130105.89648132	40.99782952 40.99862894	
16240	16240	P-16240 P-16241	GIUD	85-H3 SBPT 85-H3 SBPT	Steel Steel	Concrete Concrete	Yes Yes	No No	Vertical	1369	105651.60359566	130105.89648132	40.99862894	
16242	16242	P-16242	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	105654.27681866	130692.55705340	41.00023896	-98.40714566
16243	16243	P-16243	GIUD	85-H6 SBPT	Steel	Concrete	Yes	No	Vertical	1369	105655.60752466	130984.66112799	41.00104060	
16244 16245	16244 16245	P-16244 P-16245	GIUD	85-H4 SBPT 85-H4 SBPT	Steel Steel	Concrete Concrete	Yes Yes	No No	Vertical Vertical	1369 1369	105656.94774508 105658.27845108	131278.81539533 131570.89191090	41.00184787 41.00264944	
16246	16246	P-16246	GIUD	75 SVDN Fib		Concrete Foundation	Yes	No	Vertical	1369	105659.57667683	131855.83753524	41.00343144	
16247	16247	P-16247	GIUD	85-H4 SBPT	Steel	Concrete	Yes	No	Vertical	1369	105668.03991450	132160.33134882	41.00426708	
16248 16249	16248 16249	P-16248 P-16249	GIUD	85-H6 SBPT 85-H3 SBPT	Steel Steel	Concrete Concrete	Yes Yes	No No	Vertical Vertical	1369 1369	105673.36831591 105678.72591675	132455.91934032 132753.12675115	41.00507828 41.00589392	
16250	16250	P-16250	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	105684.05563049	133048.78692099	41.00589392	
16251	16251	P-16251	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	105689.52510775	133352.18657666	41.00753796	-98.40701507
16252 16253	16252 16253	P-16252 P-16253	GIUD	85-H3 SBPT 85-H3 SBPT	Steel Steel	Concrete Concrete	Yes Yes	No No	Vertical Vertical	1369 1369	105694.80790558 105700.09135958	133645.26637107 133938.34649357	41.00834227 41.00914659	
16254	16254	P-16253 P-16254	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	105705.39351433	134232.45876624	41.00914659	
16255	16255	P-16255	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	105710.69501291	134526.57071082	41.01076089	-98.40693709
16256 16257	16256 16257	P-16256 P-16257	GIUD	85-H3 SBPT 85-H3 SBPT	Steel	Concrete	Yes Yes	No No	Vertical Vertical	1369 1369	105716.17334841 105721.69039775	134812.70301257 135100.85335491	41.01154614 41.01233693	
16257	16257	P-16257 P-16258	GIUD	85-H3 SBPT 85-H3 SBPT	Steel Steel	Concrete Concrete	Yes Yes	No No	Vertical Vertical	1369 1369	105/21.69039//5	135100.85335491 135386.18841416	41.01233693	
16259	16259	P-16259	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	105732.65625508	135673.58908607	41.01390872	
16260	16260	P-16260 P-16261	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No No	Vertical	1369	105738.48432741	135978.01301791	41.01474417	
16261 16262	16261 16262	P-16261 P-16262	GIUD	85-H3 SBPT 85-H3 SBPT	Steel Steel	Concrete Concrete	Yes Yes	No No	Vertical Vertical	1369 1369	105744.15491975 105749.86488208	136274.18270116 136572.41734090	41.01555696 41.01637543	
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DD-56C DD-56N DD-56S DD-57N DD-57S DD-58S DD-59N DD-59S DD-60C DD-60M DD-60S DD-61E DD-62W DD-62E DD-63W DD-63E DD-63W DD-65E DD-65W DD-65E DD-65C DD-66C DD-65C DD

16263	16263	P-16263	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	105755.60338766	136872.14213516	41.01719798 -98.40677180
16264	16264	P-16264	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	105761.13684116	137170.92926724	41.01801796 -98.40675142
16265	16265	P-16265	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	105763.54595708	137457.79844415	41.01880523 -98.40674238
16266	16266	P-16266	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	105765.95212024	137744.37103374	41.01959169 -98.40673334
16267	16267	P-16267	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	105768.41307333	138037.39275741	41.02039585 -98.40672410
16268	16268	P-16268	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	105770.88124425	138331.32261574	41.02120250 -98.40671483
16269	16269	P-16269	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	105773.48885058	138641.85020991	41.02205470 -98.40670504
16270	16270	P-16270	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	105775.96095850	138936.25841374	41.02286266 -98.40669576
16271	16271	P-16271	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	105778.34809283	139220.51867199	41.02364277 -98.40668679
16272	16272	P-16272	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	105780.72341616	139503.38752882	41.02441907 -98.40667787
16273	16273	P-16273	GIUD	75 SVD	Steel	Concrete Foundation	Yes	No	Vertical	1369	105778.55445725	139785.45881508	41.02519318 -98.40668542
16274	16274	P-16274	GIUD	95-H4 SBPT	Steel	Concrete	Yes	No	Vertical	1369	105491.07307683	139788.82888708	41.02520266 -98.40772719
16275	16275	P-16275	GIUD	95-H4 SBPT	Steel	Concrete	Yes	No	Vertical	1369	105167.78336908	139793.55459940	41.02521589 -98.40889873
16276	16276	P-16276	GIUD	80-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	104847.87390391	139798.23077115	41.02522896 -98.41005802
16277	16277	P-16277	GIUD	90-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	104551.73210775	139802.55950265	41.02524105 -98.41113118
16278	16278	P-16278	GIUD	95-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	104284.86879633	139806.46041349	41.02525194 -98.41209824
16279	16279	P-16279	GIUD	85-H3 SBPT	Steel	Concrete	Yes	No	Vertical	1369	104056.08546124	139809.80423882	41.02526126 -98.41292731
16280	16280	P-16280	GIUD	75 SVD	Steel	Concrete Foundation	Yes	No	Vertical	1369	103812.77492424	139819.24746141	41.02528733 -98.41380901
16129	16129	P-16129	GIUD	60/1 TSA	Wood	Earth	Yes	Yes	Horizontal	Tie To PGS	122024.81264708	77975.91806432	40.85553407 -98.34803056
16130	16130	P-16130	GIUD	60/1 TSA	Wood	Earth	Yes	Yes	Horizontal	Tie To PGS	122037.30606041	77975.52370816	40.85553296 -98.34798540
16131	16131	P-16131	GIUD	60/1 TSA	Wood	Earth	Yes	Yes	Horizontal	Tie To PGS	122075.42507866	77974.75107191	40.85553074 -98.34784762
16132	16132	P-16132	GIUD	60/1 TSA	Wood	Earth	Yes	Yes	Horizontal	Tie To PGS	122087.91422691	77974.24090232	40.85552930 -98.34780248