

CITY OF DORAL



Invitation to Bid

ITB No. 2024-11

Construction of
City of Doral Entry Features



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Invitation to Bid
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ITB No. 2024-11**

NOTICE: Pursuant to its Procurement Ordinance, the City of Doral (“City”) hereby gives notice of its intent to seek bids from interested and qualified parties in response to this Invitation to Bid (“ITB”) to provide the services described herein. Bids must be received no later than the date and time specified below.

Bids must be submitted electronically through DemandStar <https://network.demandstar.com/> or Vendor Registry <https://vendorregistry.com/> by the date and time stated above. The responsibility for submitting a Bid before the stated time and date is solely and strictly that of the Proposer. The City is not responsible for any delayed, lost, late, misdelivered, or non-delivered Bids, no matter the cause. Any submittals received after the due date and time specified will not be considered.

This ITB is subject to the “Cone of Silence”. Accordingly, all questions and/or comments regarding this ITB must be made in writing and be directed to Procurement at the following email at procurement@cityofdoral.com. All inquiries must reference “**ITB No. 2024-11 Construction of City of Doral Entry Features**” in the subject line. No phone calls will be accepted in reference to this solicitation. If it becomes necessary to provide additional clarifying information that revises any part of this solicitation, supplements or revisions will be made available via written addendum.

Solicitations and addenda or notices in connection therewith may be downloaded from the City of Doral Procurement Division webpage under “[Active Solicitations](#)”, on [Vendor Registry](#), and on [Demand Star](#). To receive notifications of addenda or notices issued in connection with this ITB, interested parties must register on Vendor Registry or on Demand Star. The City reserves the right to reject any and all submissions, to waive any and all irregularities in any submission, to solicit and re-advertise for bids and to make awards in the best interest of the City, as determined in its sole discretion.

The City reserves the right to accept any submittals deemed to be in the best interest of the City, to waive any minor irregularities, scrivener’s errors, minor omissions, minor deviations, and/or technicalities in any Bids, or to reject any or all Bids and to re-advertise for new Bids, in accordance with the applicable sections of the Florida Statutes, the City Charter and Code, and this ITB. PROPOSERS ARE ADVISED THAT PROPOSALS OR BIDS SUBMITTED WITH IRREGULARITIES, DEFICIENCIES, AND/OR TECHNICALITIES THAT DEVIATE FROM THE MINIMUM SUBMISSION REQUIREMENTS OF THIS SOLICITATION SHALL RESULT IN A NON-RESPONSIVE DETERMINATION. ONLY MINOR IRREGULARITIES, DEFICIENCIES, AND TECHNICALITIES MAY BE ALLOWED TO BE TIMELY CURED BY PROPOSERS AT THE SOLE DISCRETION OF THE CITY. MATERIAL IRREGULARITIES, DEFICIENCIES, AND TECHNICALITIES CANNOT BE CURED BY THE PROPOSER/BIDDER.

PROJECT OVERVIEW

The City of Doral is soliciting Bids from a qualified General Contractor to construct the Doral Boulevard Entry features at the NW 36 Street and Palmetto Expressway. Through the ITB process described herein, qualified Contractors interested in assisting the City with the provision of such services must prepare and

submit a bid packet in accordance with the procedure and schedule of this ITB. The City will review submittals only from those Contractors that submit an ITB packet which includes all the information required as described herein.

One of the following licenses (valid, current, and active) is required within bid submittal package: State Certified General Contractor License, provided by the State of Florida Construction Industry Licensing Board, pursuant to the provisions of Section 489.115 of the Florida Statutes, or Certificate of Competency from the Miami-Dade County's Construction Trades Qualifying Board as a General Contractor, commensurate to the requirements of the Scope of Work as a General Contractor.

The City will review submittals only from those Contractors that submit an ITB packet which includes all the information required to be included as described herein the Doral Boulevard Entry features at NW 36 Street and Palmetto Expressway.

The City intends to award a contract for the Doral Boulevard Entry features at the NW 36 Street and Palmetto Expressway to the Contractor that: possesses qualified manpower, equipment, administrative capabilities to provide the proposed services, possesses previous experience on this type of work, and provides the best offer and prices deemed to be in the greatest benefit to the City.

SCHEDULE

The City's schedule for this ITB is as follows:

Issuance/Advertisement Date:	Tuesday, July 16, 2024
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	Wednesday, July 31, 2024, at 10:00 AM
<u>Non-Mandatory</u> Pre-Bid Conference:	Join from your computer, tablet or smartphone. https://meet.goto.com/303531885 You can also dial in using your phone. Access Code: 303-531-885 United States: +1 (224) 501-3412

Cut-off Date for Written Questions:	Tuesday, August 6, 2024 at 10:00 AM
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	Thursday, Aug 15, 2024, at 2:00 PM
Deadline for Submittals & Bid Opening:	Join from your computer, tablet or smartphone. https://meet.goto.com/162821853 You can also dial in using your phone. Access Code: 162-821-853 United States: +1 (571) 317-3112

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ARTICLE 1 – GENERAL TERMS AND CONDITIONS

1.1 Definitions

“Authorized Representative” means the Department contact for interaction regarding contract administration.

“City” means the City of Doral, a duly organized municipality under the laws of the State of Florida. This term may also refer to one of the various departments or agencies of the City of Doral, as the context indicates.

“Contract” means the contractual agreement ultimately entered into by the City and the Successful Respondent(s) in accordance with the terms of this Solicitation and applicable laws.

“Department(s)” means the City department(s) and offices for which this solicitation is prepared, which will be the end user(s) of the goods and/or services sought.

“Procurement Division” means the office responsible for handling procurement-related matters within the City.

“Respondent(s)”: means any person, individual, or entity submitting a response to this solicitation. The terms “Proposer” and “Bidder” are each interchangeable with “Respondent” and with each other and will be used as appropriate in the given context.

“Response(s)” means the written, sealed document submitted by the Respondent(s) according to the instructions set forth in this Solicitation. A response to this Solicitation shall not include any verbal interactions with the City apart from submittal of a formal written submittal. The terms “Proposal” and “Bid” are each interchangeable with “Response” and with each other will be used as appropriate in the given context.

“Solicitation” means this formal request to solicit Responses from responsible and responsive Respondents for the scope and specifications set forth herein. The terms “Invitation to Bid”, “Request for Proposals”, “Request for Qualifications”, and the like are each interchangeable with “Solicitation” and will be used as appropriate in the given context.

“Successful Respondent(s)” means the Respondent(s) whose response to this Solicitation is deemed by the City to be in the City’s best interest and is awarded a contract in accordance with the terms of this Solicitation. The terms “Successful Proposer”, “Successful Bidder”, or “Contractor” are each interchangeable with “Successful Respondent” and will be used as appropriate in the given context.

“Work” means the actual task (i.e., good and/or services to be provided) contemplated by this Solicitation and required in accordance with the terms of the Contract.

1.2 Cone Of Silence

This Solicitation shall be subject to the “Cone of Silence” which shall mean a prohibition on any communication regarding a Solicitation between potential Respondent(s) or their lobbyists or representatives and the City Council, City staff including, but not limited to, the City Manager and his or her staff, and any member of the City’s selection or evaluation committee, except as otherwise explicitly provided herein.

The Cone of Silence shall be imposed upon this Solicitation after the advertisement thereof and shall terminate upon the issuance of the City Manager’s recommendation to award. However, if the City Council refers the City Manager’s recommendation back to the City Manager or committee for further review, the Cone of Silence shall be re-imposed until such time a recommendation is issued by the City Manager after such additional review.

The Cone of Silence shall not apply to:

- Communications with the City Attorney;
- Oral presentations before evaluation committees;
- Public presentations made to the City Council during any duly noticed public meeting;
- Written communications regarding a particular Solicitation between a potential Respondent, and the City’s Procurement Division, provided the communication is limited strictly to matters of process or procedure already contained in the Solicitation;
- Duly noticed site visits to determine the competency of bidders/Respondent(s) regarding a particular bid/proposal during the time period between the opening of bids and the time the City Manager makes his or her written recommendation;
- Any emergency procurement of goods or services pursuant to City Code;
- Responses to the City’s request for clarification or additional information;
- Contract negotiations during any duly noticed public meeting;
- Communications to enable City staff to seek and obtain industry comment or perform market research, provided all communications related thereto are in writing or made at a duly noticed public meeting.

Please contact the City Attorney for any questions concerning Cone of Silence compliance. Violation of the Cone of Silence by a Respondent shall render any award of this Solicitation to said Respondent voidable by the City Manager or Council.

1.3 Examination Prior to Submission

Respondents must thoroughly examine each section. If there is any doubt or obscurity as to the meaning of any part of this Solicitation, Respondents may request clarification by written request to the Procurement Division.

Respondents are required to be familiar with any conditions that may, in any manner, affect the Work to be done or affect the equipment, materials, or labor required. Respondents are also required to carefully examine the specifications and all equipment and all site locations and be thoroughly informed regarding all conditions that may, in any manner, affect the Work to be performed under the Contract. By submission of a Response, it will be construed that the Respondent is acquainted sufficiently with the site(s) and work to be performed.

1.4 Clarifications and Addenda

Questions regarding this Solicitation shall be directed in writing by email to the Procurement Division at the email address specified in this Solicitation. Answers will be issued simultaneously to all registered Respondents. If it becomes evident that this Solicitation must be amended, the City will issue a formal written addendum to all registered Respondent(s) via email or through Vendor Registry and Demand Star. The addendum will be uploaded to the City's Procurement webpage.

No person is authorized to give oral interpretations of, or make oral changes to, the Solicitation. The issuance of a written addendum shall be the only official method whereby such a clarification is made. Only questions answered by written addenda shall be binding.

1.5 Withdrawal of Response

A Respondent(s) may, without prejudice, withdraw, modify, or correct the Response after it has been submitted to the City, provided the request and any subsequent modifications and/or corrections are filed with the City in writing before the deadline to submit the Response. The original Response as modified by such writing will be considered as the Response submitted by the Respondent(s). No oral modifications will be considered.

1.6 Right To Cancel or Reject Responses

The City reserves the right to cancel this Solicitation or reject any and/or all Responses or portions thereof, and to waive any technicalities or minor irregularities. Each Respondent agrees to hold harmless and covenant not to sue the City, its officials, officers, or employees, for any claims arising out of or in connection with the administration, evaluation, recommendation, or rejection of Responses.

The City does not bind itself to accept the minimum specifications stated herein, but reserves the right to accept any Response, which, in the sole judgment of the City, will best serve the needs and interests of the City. This issuance of this Solicitation itself does not in any way constitute a contractual agreement between the City and the Respondent(s) unless and until the City awards the Solicitation, obtains all required approvals, and executes a Contract in accordance herewith. Furthermore, the City reserves the right to award without further discussion.

The City also reserves the right to award the Contract on a split order basis, group by group, or item by item, or such combination as will best serve the interests of the City, unless otherwise stated.

1.7 Protests

Protests of Solicitations and awards shall be submitted and resolved pursuant to City Code Section 2-338. Protests failing to meet all the requirements for filing shall NOT be accepted. Failure of a party to timely file shall constitute a forfeiture of such party's right to file a protest. NO EXCEPTIONS WILL BE MADE TO THIS REQUIREMENT.

1.8 Incurred Expenses

The City shall not be responsible for any expenses incurred by any of the Respondents for the preparation of their Responses to this Solicitation, or for any associated costs in relation thereto, including without limitation the cost incurred during any presentation or negotiations related to potential award.

1.9 Preparation of Response

Responses should be prepared simply and economically, providing a straightforward, concise description of the Respondent's ability to fulfill the requirements of the Solicitation.

Responses shall include all of the information and forms required by this Solicitation. Failure to utilize the City's forms, or fully complete said forms, may result in the

Response being deemed non-responsive. The Respondent shall be considered non-responsive if its Response is conditioned on modifications, changes, or revisions to the terms and conditions of the Solicitation.

1.10 Submission of Responses & Evaluations

Acknowledgment by Respondent: By submitting a Response, the Respondent certifies that he/she has fully read and understands the Solicitation and has full knowledge of the scope, nature, and quality of services to be performed or goods to be provided. Incomplete, unresponsive, irresponsible, vague, or ambiguous responses to the Solicitation will be cause for rejection, as determined in the sole discretion of the City.

Acceptance/Rejection/Modification: The City reserves the right to negotiate modifications to proposals that it deems acceptable, reject any and all proposals, and to waive minor irregularities in the submittals.

Postponement of Response Opening: The City reserves the right to postpone the date for receipt and opening of Response submissions and will make a reasonable effort to give at least three (3) calendar days' notice, whenever practicable, of any such postponement to prospective Respondents.

Responses Binding: All Responses submitted in connection with this Solicitation shall constitute binding offers to the City for one hundred and eighty (180) calendar days after opening.

Alternate Responses: An alternate Response shall not be considered or accepted by the City.

Interviews: The City reserves the right to conduct interviews or require presentations prior to award.

Samples: When required by this Solicitation, samples of any goods proposed to be provided by Successful Respondent must be furnished to the City free of charge. Materials or equipment for which samples are required shall not be used in work until approved by the City. Each sample must be labeled with the Respondent's name and delivered within ten (10) calendar days of the Solicitation opening unless another timeframe is specified in this Solicitation. If samples are requested after the Solicitation opening, they should be delivered within ten (10) calendar days of the request. The City will not be responsible for returning samples. Acceptance or approval of a sample shall not be construed to change or modify any Contract requirements.

Inspections: The City, at its sole discretion, reserves the

right to inspect Respondent's facilities or products, as applicable, to determine their capability of meeting the requirements for the Contract.

Proprietary Responses: By submitting a Response, the Respondent acknowledges that the Response will become the property of the City and will not be returned to the Respondents. In the event of Contract award, all documentation produced as part of the Contract will become the exclusive property of the City.

1.11 Prohibition Against Considering Social, Political, or Ideological Interests

Respondents are hereby notified of the provisions of Section 287.05701, Florida Statutes, as amended, which provides that the City will not request documentation of or consider a Respondent's social, political, or ideological interests when evaluating Respondent's responsibility. Respondents are further notified that the City Council will not give preference to Respondents based on their social, political, or ideological interests.

1.12 Identical (Tie) Responses

Responses that are evaluated as being equal with respect to price, quality, and service for the procurement of commodities or contractual services (sometimes referred to herein as "Tie Bids"), received from a business that certifies that it has implemented a drug-free workplace program shall be given preference in the award process provided the Respondent complies with the requirements of Section 287.087, Florida Statutes.

1.13 Public Records

This Solicitation and any Responses or other information provided by Respondents in connection therewith, including but not limited to any subsequent Contract, shall be subject to the provisions of Chapter 119, Florida Statutes ("Public Records Law"). Responses are exempt from public disclosure until the City provides notice of an intended decision or until 30 days after opening the Responses, whichever occurs earlier.

By submitting a Response, Respondent(s) acknowledges that the Response, the materials submitted with the Response, the results of the City's evaluation and the subsequent Contract are open to public inspection upon proper request unless explicitly exempt under Florida law. Respondent(s) should take special note of this as it relates to proprietary information that might be included in its Response.

In the event that a Respondent submits information to the City that is proprietary or otherwise exempt from the

Public Records Law, such Respondent shall explicitly indicate the information that is exempt from public disclosure and shall provide reasons therefor and shall identify the applicable exemption with a reference to the applicable law allowing for the exemption. The City reserves the right to make any final determination on the applicability of the Public Records Law.

1.14 Compliance With Applicable Laws

Successful Respondent(s) shall comply with all local, state, and federal directives, ordinances, rules, orders, and laws as applicable to this Solicitation and subsequent Contract. Lack of knowledge by the Respondent(s) will in no way be a cause for relief from responsibility. Respondents must be legally authorized to transact business in the State of Florida.

Non-compliance with all local, state, and federal directives, orders, and laws may be considered grounds for termination of contract(s). If the Successful Respondent(s) observes that the Response or subsequent Contract are at variance with applicable laws, Successful Respondent(s) will give the City prompt written notice thereof. If the Successful Respondent(s) performs knowing it to be contrary to such laws, ordinances, rules, and regulations, such Successful Respondent(s) will bear all liability arising wherefrom.

In the event that any governmental restrictions are imposed that would necessitate alteration of the goods or services requested by this Solicitation and/or offered by the Successful Respondent prior to delivery or completion, it shall be the responsibility of the Respondent(s) to notify the City immediately. In the event the City determines that the alteration diminishes the City's bargained-for exchange or frustrates the project, the City reserves the right to accept the alteration or cancel the Contract.

1.15 Public Entity Crime

A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a Response on a contract to provide any goods or services to a public entity, may not submit a Response on a contract with a public entity for the construction or repair of a public building or Public Works project, may not submit a Response on a lease of real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017, Florida Statutes for Category Two for a period

of thirty-six (36) months from the date of being placed on the convicted vendor list, as defined in Section 287.133, Florida Statutes.

1.16 Equal Employment Opportunity

The Respondent shall comply with Title VII of the Civil Rights Act of 1964 42 U.S.C. Section 2000e et seq., Section 504 of the Rehabilitation Act of 1973 29 U.S.C Section 701 et seq., and Title I of the Americans with Disabilities Act, 42 U.S.C Section 12101 as of 1990 in that: No person in the United States shall on the grounds of race, creed, color, national origin, sex, age, political affiliation, beliefs or disability be subject to discrimination under any program or activity which the Respondent has agreed to undertake by and through the covenants, and provisions set forth in this Contract.

1.17 Compliance with Occupational Health and Safety Act (OSHA) Standards

Respondent certifies that all materials, equipment, etc., contained in its Response meet all OSHA requirements. Respondent further certifies, that, if he/she is the Successful Respondent, and the materials, equipment, etc., delivered are subsequently found to be deficient in any OSHA requirement in effect on the date of use, all costs necessary to bring the materials equipment, etc., into compliance with the aforementioned requirements shall be borne solely by Successful Respondent. Upon request the contractor shall provide the City with a copy of their written safety program pertaining to the subject of the Contract, if such a program is required by law.

The Successful Respondent shall be solely and completely responsible for conditions of the job site, including safety of all persons (including employees) and property during performance of the work. This requirement shall apply continuously and not be limited to normal working hours. Safety provisions shall conform to the U.S. Department of Labor OSHA, Florida Department of Labor, and all other applicable federal, state, county, and local laws, ordinances, codes, and regulations. Where any of these are in conflict, the more stringent requirement shall be followed.

1.18 Scrutinized Companies

Respondent must certify that it is not participating in a boycott of Israel and must also certify that it is not on the Scrutinized Companies that Boycott Israel list, not on the Scrutinized Companies with Activities in Sudan List, and not on the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List. Contractor must submit the certification that is attached to this agreement. Submitting a false certification shall be

deemed a material breach of contract. The City shall have the right to terminate the Contract and seek civil remedies pursuant to Florida Statute § 287.135.

1.19 Fraud and Misrepresentation

Any individual, corporation, or other entity that attempts to meet its contractual obligations with the City through fraud, misrepresentation, or material misstatement, or omission of any material fact, may be debarred in accordance with the applicable provisions of the City Code. The City as a further sanction may terminate or cancel any other Contracts with such individual, corporation, or entity. Such individual or entity shall be responsible for all direct or indirect costs associated with termination or cancellation.

1.20 Collusion

Where two (2) or more related parties, as defined herein, each submit a Response to this Solicitation, such Responses shall be presumed to be collusive. The foregoing presumption may be rebutted by the presentation of evidence as to the extent of ownership, control, and management of such related parties in preparation and submission under such solicitation. Related parties shall mean employees, officers or the principals thereof which have a direct or indirect ownership interest in another firm or in which a parent company or the principals thereof of one Respondent have a direct or indirect ownership interest in another Respondent, for the same Project. Responses found to be collusive, or related as provided above, shall be rejected.

1.21 Respondent in Arrears or Default

The Respondent represents and warrants that the Respondent is not in arrears to the City, City agency, or instrumentality, and is not a default as a Contractor, Vendor, Provider or whose default has not been fully cured by the Respondent's surety or otherwise upon any obligation to the City. In addition, the Respondent warrants that the Bidder has not been declared "not responsible" or "disqualified" by, suspended, or debarred from doing business with any state or local government entity in the State of Florida, the Federal Government or any other State/local governmental entity in the United States of America, nor is there any proceeding pending pertaining to the Respondent's responsibility or qualifications to receive public agreements. The Respondent considers this warrant as stated in this section to be a continual obligation and shall inform the City of any change during the term of the Contract.

The City shall deem as non-responsible, Respondents

that the City has determined is in monetary arrears, in debt, or in default to the City at the time bids are due.

1.22 Conflict of Interest

By way of its Response, Successful Respondent recognizes and certifies that no elected official, board member, or employee of the City shall have a financial interest directly or indirectly in the Contract or any compensation to be paid under or through this transaction, and further, that no City employee, nor any elected or appointed officer (including City Council members) of the City, nor any spouse, parent or child of such employee or elected or appointed officer of the City, may be a partner, officer, director or proprietor of Respondent, and further, that no such City employee or elected or appointed officer, or the spouse, parent or child of any of them, alone or in combination, may have a Material Interest in the Respondent. "Material Interest" for purposes of this subsection shall mean direct or indirect ownership of more than 5% of the total assets or capital stock of the Respondent. Any exception to these above-described restrictions must be expressly provided by applicable law or ordinance and be confirmed in writing by City. Further, Respondent recognizes that with respect to its Response to this Solicitation, if any Respondent violates or is a party to a violation of the ethics ordinances or rules of the City, the provisions of Miami- Dade County Code Section 2-11.1, as applicable to City, or the provisions of Chapter 112, part III, Fla. Stat., the Code of Ethics for Public Officers and Employees, such Respondent may be disqualified from furnishing the goods or services for which the Response is submitted and may be further disqualified from submitting any future Responses for goods or services to City. Respondent must complete and execute the Business Entity Affidavit form.

1.23 Assignment or Transfer

The Successful Respondent shall not assign, transfer, convey, sublet or otherwise dispose of its interest in the Solicitation or the subsequent Contract, including any or all of its right, title or interest therein, or its power to execute such Contract to any person, company or corporation without the prior written consent of the City at its sole and absolute discretion.

Further, in the event that the majority ownership or control of the Successful Respondent changes subsequent to the award of this Solicitation or Contract, Successful Respondent shall promptly notify City in writing of such change at least thirty (30) days prior to such change and the City shall have the right to terminate the contract, at City's sole discretion.

1.24 City Property

Unless explicitly provided otherwise in this Solicitation, property owned by the City which may be furnished for repair, modification, study, etc., shall remain the property of the City. The Successful Respondent shall be liable for any and all damages to City-owned property occurring while in the Successful Respondent's possession. Damages occurring to such property while in route to the City shall be the responsibility of the Successful Respondent. In the event that such property is destroyed or declared a total loss, the Successful Respondent shall be responsible for replacement value of the property at the current market value, less depreciation of the property if any plus any other damages incurred by the City as a result of such loss.

Where Successful Respondents are required to enter onto City real property to deliver materials or to perform work or services in connection with a Contract, the Successful Respondent will assume the full duty, obligation, and expense of obtaining all necessary licenses, permits, inspections, and insurance required. The Successful Respondent shall be liable for any damages or loss to the City occasioned by negligence of the Successful Respondent (or their agent, representatives, or invitees).

1.25 Termination For Default

If the Successful Respondent defaults in its performance under the Contract and does not cure the default within thirty (30) days after written notice of default, the City Manager may terminate this Contract, in whole or in part, upon written notice without penalty to the City. In such event, the Successful Respondent shall be liable for damages including the excess cost of procuring similar supplies or services: provided that if, (1) it is determined for any reason that the Successful Respondent was not in default or (2) the Successful Respondent's failure to perform is without his control, fault or negligence, the termination will be deemed to be a termination for the convenience of the City.

1.26 Termination For Convenience

The City Manager may terminate the Contract, in whole or in part, upon 30 days prior written notice when it is in the best interests of the City. If the Contract is for supplies, products, equipment, or software, and so terminated for the convenience by the City, the Successful Respondent will be compensated solely for the supplies, products, equipment, or software that have been delivered to and accepted by the City prior to termination. To the extent that this Contract is for services and so terminated, the City of Doral shall be

liable only for payment in accordance with the payment provisions of the Contract for those services rendered prior to termination. Except as expressly provided herein, the City shall not be liable for any damages incurred by the counterparty to the Contract in connection with such termination.

1.27 Confidentiality

As a political subdivision, the City is subject to the Florida Sunshine Act and Public Records Law. If the Contract contains a confidentiality provision, it shall have no application when disclosure is required by Florida law or upon court order.

1.28 Anti-Trust/Non-Exclusivity

At such times as may serve its best interest, the City reserves the right to advertise for, receive, and award additional Contracts for the goods and/or services specified in this Solicitation, and to make use of other contracts for the purchase of these goods and/or services as may be available.

In case of a default by the Successful Respondent or failure of Successful Respondent to provide the goods and/or services indicated in the Contract, the City may procure the applicable goods and/or services from other sources and hold the Successful Respondent responsible for any excess costs incurred thereby, including, without limitation and as applicable, by retaining any amounts held by the City.

1.29 Quantities

The City does not guarantee or warranty as to the total amount that may or may not be purchased from any resultant Contract. Any quantities included are for bidding purposes only and will be used for tabulation and presentation. The City reserves the right to reasonably increase or decrease quantities as required.

1.30 Audit Rights and Records Retention

The Successful Respondent agrees to provide access to the City, or any of their duly authorized representatives, to any books, documents, papers, and records of the Successful Respondent which are directly pertinent to the Contract, for the purposes of audit, examination, excerpts, and transcriptions. The Successful Respondent shall maintain and retain any and all of the aforementioned records for a minimum of three years after the expiration and/or termination of the Contract.

1.31 Capital and Other Expenditures

Successful Respondent understands that any capital expenditures that the Successful Respondent makes, or

prepares to make, in order to provide the goods or perform the services required by the City under the Contract, is a business risk which the Successful Respondent must assume. The City will not be obligated to reimburse amortized or unamortized capital expenditures or any other expenses unless otherwise explicitly agreed to by the City in writing and as part of the Contract.

1.32 Governing Law and Venue

The validity and effect of the Contract shall be governed by the laws of the State of Florida. The Successful Respondent agrees that any action, mediation, or arbitration arising out of the Solicitation or Contract shall take place in Miami-Dade County, Florida.

1.33 Attorney Fees

In connection with any litigation, mediation, or arbitration arising out of this Contract, each party shall be responsible for their own attorney fees through and including appellate litigation and any post-judgment proceedings.

1.34 Disputes

If any dispute concerning a question of fact arises under the Contract, other than termination for default or convenience, the Successful Respondent, and the City department responsible for the administration of the Contract shall make a good faith effort to resolve the dispute. If the dispute cannot be resolved by mutual agreement, then the City Manager shall resolve the dispute and send a copy of its decision to Successful Respondent, which shall be binding on both parties.

1.35 Waiver of Jury Trial

The City and the Successful Respondent knowingly, irrevocably voluntarily and intentionally waive any right either may have to a trial by jury in State or Federal Court proceedings in respect to any dispute arising out of the Contract or the performance of the Work thereunder.

1.36 No Partnership or Joint Venture

Nothing contained in this Solicitation or Contract will be deemed or construed to create a partnership or joint venture between the City and Successful Respondent, or to create any such relationship between the parties.

The Successful Respondent is an independent entity under the Contract. Services provided by the Successful Respondent shall be by employees of the Successful Respondent and subject to supervision by the Successful Respondent, and not as officers, employees, or agents of the City. Personnel policies, tax

responsibilities, social security and health insurance, employee benefits, purchasing policies and other similar administrative procedures, applicable to services rendered under the Contract shall be those of the Successful Respondent.

1.37 Severability

If any provision of the Contract or the application thereof to any person or situation shall to any extent, be held invalid or unenforceable, the remainder of the Contract, and the application of such provisions to persons or situations other than those as to which it shall have been held invalid or unenforceable shall not be affected thereby, and shall continue in full force and effect, and be enforced to the fullest extent permitted by law.

1.38 Indemnification

The Successful Respondent granted a Contract with the City as a result of this Solicitation shall indemnify and hold harmless the City, its officers, agents, directors, and employees, from liabilities, damages, losses, and costs, including, but not limited to all reasonable attorney's fees and costs, to the extent caused by the error, omission, negligence, recklessness or intentional misconduct of the Successful Respondent or its agents, employees, or subcontractors or consultants, arising out of or in connection with this Solicitation or the Contract. These indemnifications shall survive the term of the Contract. In the event that any action or proceeding is brought against City by reason of any such claim or demand, the Successful Respondent shall, upon written notice from City, resist and defend such action or proceeding by counsel satisfactory to City. The Successful Respondent expressly understands and agrees that any insurance protection required by this Contract or otherwise provided by the Successful Respondent shall in no way limit the responsibility to indemnify, keep and save harmless and defend the City or its officers, employees, agents and instrumentalities as herein provided.

The indemnification provided above shall obligate the Successful Respondent to defend at its own expense to and through appellate, supplemental or bankruptcy proceeding, or to provide for such defense, at City's option, any and all claims of liability and all suits and actions of every name and description which may be brought against City whether performed by the Successful Respondent or persons employed or utilized by the Successful Respondent. This indemnity will survive the cancellation or expiration of the Contract.

This indemnity will be interpreted under the laws of the State of Florida, including, without limitation, in a manner

that conforms to the limitations of §768.28, §725.06 and/or §725.08, Florida Statutes, as applicable and as amended.

The Successful Respondent shall require all subconsultants and subcontractors' agreements to include a provision specifying that they will indemnify and hold harmless the City in the manner substantially set forth above.

The Successful Respondent agrees and recognizes that the City shall not be held liable or responsible for any claims which may result from any actions or omissions of the Successful Respondent in which the City participated either through review or concurrence of the Successful Respondent's actions. In reviewing, approving or rejecting any submissions by the Successful Respondent or other acts of the Successful Respondent, the City in no way assumes or shares any responsibility or liability of the Successful Respondent or subcontracted entities, under the Contract.

Successful Respondent warrants that there has been no violation of copyrights or patent rights in submitting their Response or providing the goods or services requested by this Solicitation. The Successful Respondent shall pay all royalties and assume all costs arising from the use of any invention, design, process materials, equipment, product or device which is the subject of patent rights or copyrights. Successful Respondent shall, at its own expense, hold harmless and defend the City against any claim, suit or proceeding brought against the City which is based upon a claim, whether rightful or otherwise, that the goods or services, or any part thereof, furnished under the contract, constitute an infringement of any patent or copyright of the United States. The Successful Respondent shall pay all damages and costs awarded against the City.

1.39 City Rights as Sovereign

Notwithstanding any language contained in this Solicitation or subsequent Contract, Successful Respondent understands that the City retains all of its sovereign prerogatives and rights as a municipality under applicable laws, including, but not limited to, any regulatory authority and approvals. Neither the issuance of this Solicitation nor any subsequent Contract shall constitute a waiver of the City's rights as sovereign. In no event shall the City have any obligations or liabilities to the Successful Respondent under the Contract or otherwise on account of the City's exercise of its sovereign prerogatives and rights and regulatory authority (quasi-judicial or otherwise) as a municipal

government.

1.40 Time is of the Essence

Successful Respondent understands and agrees that time is of the essence in the completion and delivery of the goods and/or services to be provided in connection with the Solicitation and subsequent Contract. Contractor will promptly perform its duties under the Contract and will give the Work as much priority as is necessary to cause the Work to be completed on a timely basis in accordance with the Contract. All Work shall be performed strictly (not substantially) within the time limitations necessary to maintain the critical path and all deadlines established in the Contract. Time is of the essence in performance of the Work.

1.41 Delivery

The delivery of any all goods required by this Solicitation and resultant Contract shall be delivered F.O.B. Destination (i.e., at a specific City-designated address), and delivery costs and charges (if any) will be included in the quoted price. Exceptions shall be noted.

Goods or material(s) delivered to the City pursuant to this Solicitation and resultant Contract shall remain the property of the Successful Respondent until accepted to the satisfaction of the City. In the event goods or materials delivered to City are found to be defective or do not conform to specifications, the City reserves the right to reject or return the same to the Successful Respondent at the Successful Respondent's expense. Rejected goods left longer than thirty (30) calendar days will be regarded as abandoned and the City shall have the right to dispose of them as its own property. Rejection for non-conformance or failure to meet delivery schedules may result in the Contractor being found in default.

1.42 Brand Names

Unless otherwise provided in this Solicitation, if a brand name, make, manufacturer trade name, or vendor catalog is mentioned, whether followed by the words "approved equal" or otherwise, it is the intent of the City that such name is included for the purpose of establishing a grade or quality of material only. Bidder may offer alternatives of equal quality and appropriateness for the City's needs with appropriate identification, samples, and/or specifications. The City shall be the sole judge concerning the merits of items as equals.

1.43 Contract Amendments

The Contract(s) that result from this Solicitation may not

be modified except pursuant to written amendment executed by both the City and the Successful Respondent, or their authorized successors or assigns.

1.44 Conflicts and Order of Precedence

This Solicitation and Contract shall be read together to avoid any conflicts. However, in the event of a conflict or inconsistency between this Solicitation or any exhibit attached hereto, any document referred to herein, or any document incorporated into this Solicitation and Contract by reference, and a term, statement, requirement, the Response by Successful Respondent, specifications and plans prepared by the Successful Respondent, if applicable, or provision of the Contract the following order of precedence shall apply:

In the event of any conflicts between the Contract and Solicitation, the Contract, as may be amended, shall govern. Where there appears to be a conflict between the General Terms and Conditions, Special Terms and Conditions, the Technical Specifications, or any addendum issued, the order of precedence shall be the last addendum issued, the Technical Specifications, the Special Terms and Conditions, and then the General Terms and Conditions.

In the event of conflicts within the Contract, as amended the priorities stated below shall govern, as applicable:

- Scope of Work and Specifications shall govern over the Response, including without limitation any plans and drawings submitted thereby;
- Larger scale drawings shall govern over smaller scale drawings;
- Figured or numerical dimensions shall govern over dimensions obtained by scaling; and
- Where provisions of codes, manufacturer's specifications or industry standards are in conflict, the more restrictive or higher quality shall govern.

1.45 Contract Interpretation and Construction

The singular includes the plural, and the plural includes the singular. "Shall" is mandatory and "may" is permissive. The masculine gender includes the feminine and neuter. The words "furnish" and "furnish and install", "install", and "provide" or words with similar meaning shall be interpreted, unless otherwise specifically stated, to mean "furnish and install complete in place and ready for service".

Miscellaneous items and accessories which are not explicitly mentioned, but which are essential to produce a complete and properly operating product providing the function indicated, shall be furnished and installed

without change in the Contract price. Such miscellaneous items and accessories shall be of the same quality standards, including material, style, finish, strength, class, weight, or other applicable characteristics as specified for the major component of which the miscellaneous item or accessory is an essential part, and shall be approved by the City before installation. The above requirement is not intended to include major components not covered by or inferable from the Response and Contract specifications.

1.46 Rights and Remedies

The duties and obligations imposed by this Solicitation and Contract and the rights and remedies available thereunder, and, in particular but without limitation, the warranties, guarantees and obligations imposed upon Successful Respondent and those rights and remedies available to the City, shall be in addition to, and shall not be construed in any way as a limitation of, any rights and remedies available by law, by special guarantee or by other provisions of the Contract.

1.47 Inspection of Project Records

The City shall have the right to inspect and copy during regular business hours at City's expense, the books and records and accounts of Successful Respondent which relate in any way to the Contract, and to any claim for additional compensation made by Successful Respondent, and to conduct an audit of the financial and accounting records of Successful Respondent, which arise out of the Contract. Successful Respondent shall retain and make available to City all such books and records and accounts, financial or otherwise, which relate to the Contract and to any claim for a period of three (3) years following final completion of the underlying project at no cost to the City. During the implementation of the work contemplated under the Contract and the three (3) year period following final completion of the same, the Successful Respondent shall provide the City access to such books and records upon five (5) days written notice.

1.48 Notice

Whenever any provision of the Contract requires the giving of written notice it shall be deemed to have been validly given if delivered in person to the individual or to a member of the firm or to an officer of the corporation for whom it is intended, or if delivered at or sent by registered or certified mail, postage prepaid, to the last business address known to them who gives the notice.

1.49 Payment

The City as a municipal corporation is subject to the

Local Government Prompt Payment Act, Chapter 218, Part VII, Fla. Stat., as amended. Payments made by the City shall not preclude the City from disputing any items or services billed under this Contract and shall not be construed as waiver or acceptance of any part of the goods or services.

1.50 Taxes

The cost of all applicable sales, use, and other taxes for which Respondent is liable under the Contract shall be included in the prices quoted provided by Respondent.

1.51 Employees

Successful Respondent shall be responsible for the appearance of all working on-site personnel assigned to the work in connection with the Contract (clean and appropriately dressed at all times). On-site personnel always supply proper identification upon request.

All employees of the Successful Respondent shall be considered to be at all times the sole employees of the Successful Respondent, under the Successful Respondent's sole direction, and not an employee or agent of the City. The Successful Respondent shall supply competent, suitably qualified, and capable employees and the City may require the Successful Respondent to remove any employee it deems careless, incompetent, insubordinate or otherwise objectionable and whose presence on City property is not in the best interest of the City. The City shall not have any duty to implement or enforce such requirements.

Each employee of the Successful Respondent shall be a citizen of the United States or an alien who has been lawfully admitted for permanent residence as evidenced by an Alien Registration Card. The Successful Respondent agrees not to employ any person undergoing sentence of imprisonment except as otherwise provided by applicable laws.

1.52 Subcontractors or Suppliers

Prior to the commencement of any work pursuant to the Contract, the Successful Respondent shall furnish, in writing to the City, the names of all persons/entities (including those who are to furnish materials or equipment fabricated to a special design), if any, proposed for each principal portion of the work. The City shall notify the Successful Respondent, in writing, of any proposed person or entity to which City has an objection. The Successful Respondent will not employ any subcontractor or supplier against whom the City may have reasonable objection. Nor will the Successful

Respondent be required to employ any subcontractor or supplier who has been accepted by the City, unless the City determines that there is good cause for doing so or if the terms of this Solicitation or Contract specify otherwise.

The Successful Respondent shall be fully responsible for all acts and omissions of their subcontractors and/or suppliers and of persons and organizations directly or indirectly employed by them and of persons and organizations for whose acts any of them may be liable to the same extent that they are responsible for the acts and omissions of persons directly employed by them.

All work performed for the Successful Respondent by a subcontractor, supplier, or other person will be pursuant to an appropriate agreement between the Successful Respondent and such person. All agreements between the Successful Respondent and all subcontractors, suppliers, or others shall specifically bind the subcontractor, supplier, or other person to all applicable terms and conditions of the Contract for the City's benefit. Nothing in the Contract shall create any contractual obligation or liability on the part of the City to any subcontractor, supplier, or other person having a direct contract with Successful Respondent, including without limitation any payment to any such person, except as may otherwise be required by law.

1.53 Extensions

The City reserves the right to automatically extend the Contract for up to one hundred twenty (120) calendar days beyond the stated contract term in order to provide City departments with continual service and supplies while a new contract is being solicited, evaluated, negotiated and/or awarded. If the right is exercised, the City shall notify the Contractor, in writing, of its intent to extend the Contract at the same price, terms and conditions for a specific number of days. Additional extensions over the first one hundred twenty (120) day extension may occur, if, the City and the Contractor are in mutual agreement of such extensions.

1.54 Hiring Preference for Procured Projects

To the extent applicable, Successful Respondent shall comply with the provisions of City Code Section 2-325, providing a preference for Doral Businesses and Residents in Public Works and Improvements Contracts unless otherwise prohibited by applicable law or grant requirement.

[END OF SECTION]

ARTICLE 2 – SPECIAL TERMS AND CONDITIONS

2.1 Bid Submittal Instructions

Bids must be submitted in the format and on the forms provided by this Solicitation as Exhibit A. Bids must be typed or printed in black or blue ink only. Use of erasable ink is not permitted. All corrections must be initialed. Any information to be submitted as part of the response may be attached behind the required forms. Responses by corporate entities must be executed in the corporate name by the President or other corporate officer accompanied by evidence of authority to sign. The corporate address and state of incorporation must be shown below the signature. Proposals by partnerships must be executed in the Partnership name and signed by a partner, whose title must appear under the signature and the official address of the partnership must be shown below the signature.

2.2 Basis of Award

Bids shall be on a unit price basis. Award of this Contract will be made to the lowest responsive and responsible bidder who bids on all items and whose bid offers the lowest total project cost when all items are added in the aggregate as indicated in the Bid Price Sheet. Failure to bid on all items shall deem your bid non-responsive. Additionally, the City shall give preference to a responsive and responsible bidder that is a certified veteran business enterprise in accordance with the provisions set forth in City Code Section 2-324(2)(a).

2.3 Contract Timing

The Contract will commence on the date the Agreement is executed by the City and Contractor and will continue to run consecutively for the period of one hundred and eighty (180) calendar days after date specified in Notice to Proceed. Project shall be completed and ready for final payment in accordance with the Contract Documents within one hundred and eighty (180) calendar days after the date specified in the Notice to Proceed ("Final Completion"). No extension of time will be given unless previously provided by the City Manager or designee in writing. Liquidated damages will be assessed for each calendar day for which completion of the project is delayed.

2.4 Project Schedule and Preparation

The Contractor shall start to perform their obligations under the Contract Documents on the date stipulated in the Notice to Proceed (NTP) for each site. No Work shall be done at the site prior to the date on which the NTP

commences to run, except with the written consent of the City. No work will be done on Saturday without written consent of the CITY or after the end of a normal business day unless prior approval is given by the City in writing. No work shall be permitted on Sundays or on national holidays.

Before undertaking each part of the Work, the Contractor shall carefully study and compare the Contract Documents and check and verify pertinent figures shown thereon and all applicable field measurements which shall be approximate. Any modifications to the proposed work, once construction has begun, will be at no cost to the City.

All Work completed under the Contract will be measured by the City according to the United States Standard Measures. All linear surface measurements will be made horizontally or vertically as required by the item measured.

2.5 Identification of Subcontractors

Bidders shall list all proposed subcontractors in the appropriate portion of the Required Submission Forms attached as Exhibit A. Contractor shall be responsible for the coordination of the trades, Subcontractors, materials and staff necessary to complete the Work.

2.6 Licensing

Respondents must have the proper license(s) and certification(s) to perform the Work being requested. Successful Respondent must provide a copy of their occupational/business license and State registration at time of award. Failure to possess and maintain the proper license(s) and/or certification(s) may result in disqualification of proposal submittal or termination of the Contract after award. Copies of the respondent's license(s) and/or certification(s) which are applicable to this project shall be submitted as part of their bid submittal. Pursuant to section 607.1503(1), Florida Statutes, Corporations, out-of-state corporations are required to obtain a Florida Certificate of Authorization from the Florida Department of State, Division of Corporations, to transact business in the State of Florida.

2.7 Insurance Requirements

Contractor shall maintain, at their sole expense and during the term of this agreement insurance requirements set forth in the attached Exhibit C.

2.8 Bid Bond

Bidders shall be required to submit a Bid Bond equal to five percent (5%) of the base bid.

Original Bid Bonds shall be submitted to and received by the City Clerk's Office in a sealed envelope referencing ITB 2024-11 no later than the submittal due date at:

City Clerk
City of Doral
8401 NW 53 Terrace
Doral, FL 33166

Awarded Bidder's failure to execute said Agreement and to furnish said Bonds and Insurance within ten (10) days from the date of such Notice will authorize the City to revoke the award and collect against the Bid Bond.

2.9 Payment Bond, and Performance Bond

Contractor shall be required to submit a Payment Bond and a Performance Bond in forms acceptable to the City of Doral, which shall be substantially as provided in the forms set forth within composite Exhibit D. Each such bond shall be in the amount of one hundred percent (100%) of the total contract price guaranteeing to the City the completion and performance of the Work covered in such Contract as well as full payment of all suppliers, material man, laborers, of Subcontractors employed pursuant to this Project. Each Bond shall be with a Surety company meeting the qualifications set forth herein.

Each Bond shall continue in effect for one and one half (1.5) years after final completion and acceptance of the Work with the liability equal to one hundred percent (100%) of the total contract price. The Performance Bond shall be conditioned that the Contractor will, upon notification by the City, correct any defective or faulty Work or materials which appear within one and a one half (1.5) years after final completion of the Contract.

Pursuant to the requirements of Section 255.05(1), Florida Statutes, the Contractor shall ensure that the Bond(s) referenced above shall be recorded in the public records of Dade County and Provide the City with evidence of such recording.

Each Bond required herein must be executed by a surety company authorized to do business in Florida as a surety, having a resident agent in the State of Florida and having been in business with a record of successful continuous operation for at least five (5) years.

The surety company shall hold a current certificate of authority as acceptable surety on federal bonds in accordance with the United States Department of Treasury Circular 570, current Revisions. Surety companies executing bonds must appear on the Treasury Department's most current list (circular 570 as amended) and be authorized to transact business in the State of Florida. The City will accept a surety bond from a company with a rating of A- or better.

Failure of the successful Bidder to execute and deliver the Agreement and deliver the required bonds and Insurance Certificates as stipulated herein shall be cause for the City to annul the Notice of Award and declare the Bid and any security therefore forfeited.

2.10 Hours of Work

Contractor will perform work Monday through Friday, excluding City holidays, from 8:00 a.m. to 6:00 p.m. unless prior written approval is received from The City. The Contractor must comply with the City's Noise Ordinance, Ordinance No. 2006-23.

2.11 On-Site Survey/As Built

Contractor shall be responsible for survey work required for establishing proper layout, elevations and grades as noted on the plans. The Contractor shall provide the City with three (3) sets of certified as-built plans and a CD containing PDF copy of the As-Built drawings as well as the CAD files, at no additional cost to the City.

2.12 Permits

Contractor shall obtain all permits necessary to conduct this project. The cost of all permits should be included on the bid proposal. If more than 1 Acre of land is disturbed during construction the Contractor is responsible to obtain NPDES Stormwater permit coverage through the Florida Department of Environmental Protection (FDEP) Construction Generic Permit (CGP). Instructions to request and obtain a CGP can be found at: <http://www.dep.state.fl.us/water/stormwater/npdes/docs/cgp.pdf>. Contractor should submit the Notice of Intent (NOI) with the appropriate processing fees to the NPDES Stormwater Notices Center. Contractor must apply for permit coverage at least two days before construction begins. In addition, the Contractor shall clear utilities prior to conducting any work at each project site. Contractor shall adhere to any restrictions imposed by FPL for conducting work under power lines.

2.13 Public Convenience and Safety

Contractor shall, at all times, conduct the Work in such a

manner as to ensure the least practicable obstruction to public travel. The convenience of the general public and of the residents and adjacent to the area of Work shall be provided for in a satisfactory manner, consistent with the operation and local conditions. Proper Maintenance of Traffic (MOT) devices shall be placed immediately adjacent to the Work, in a conspicuous position, at such locations as traffic demands. The MOT shall be designed as outlined in the latest edition of ROADWAY AND TRAFFIC DESIGN STANDARDS SERIES 600. At any time that streets are required to be closed or blocked, the Contractor shall notify law enforcement agencies before the street is closed and again as soon as it is opened. Access to fire hydrants and other fire extinguishing equipment shall be provided and maintained at all times.

The Contractor shall notify the Public Works Director whenever it is necessary to temporarily interrupt any business activities, the Contractor shall notify the City or tenant or their designee prior to the interruption and again immediately before the service is resumed. Before disconnecting any underground or overhead utilities, the Contractor shall make similar arrangements for their disconnection with the City, tenant or their designee. The Contractor shall be responsible for any damage caused by the Contractor to such utilities and shall restore them to service promptly as soon as the Work interruption has ended.

Contractor shall notify residents directly impacted by the project (including MOT), in writing, 72 hours prior to performing any work. Notification must include type of work to be performed; date work will begin and estimated completion date. In the event Contractor changes schedule or duration of work, Contractor must notify resident, in writing, of such changes. Contractor must provide a copy of all notifications to the City.

2.14 Safety and Protection

All work in fulfillment of this project shall be performed on City property or public right-of-way. No permission will be given to trespass on adjoining property. If property (public or private) is damaged during construction or is removed for the convenience of the work, it shall be repaired or replaced at the expense of the Contractor in a manner acceptable to the City of Doral prior to the final acceptance of the work. Such property shall include but not be limited to: pavement, sidewalks, curbs, driveways, walls, fences, footings, building façade, underground utilities, sod, shrubs, water sprinklers, signs, and trees.

The Contractor shall notify the Public Works Department in writing of the site having pre-existing damage to

sidewalks, curbs, facade, adjacent improvements, etc., before beginning work. Failure to do so shall obligate the Contractor to make repairs per above paragraph.

The Contractor shall be solely responsible for pedestrian and vehicular safety and control within the work site and shall provide the necessary warning devices, signage, barricades and ground personnel needed to give safety, protection, and warning to persons and vehicular traffic within the area. All safety devices must have suitable and sufficient lighting for the prevention of accidents.

The Contractor shall protect existing catch basins from sediment and debris with filter fabric while work is in progress. Filter fabric shall be removed after completion of work. Filter fabric must be cleaned periodically to avoid excessive accumulation of sediment and debris. Extreme care shall be taken when removing filter fabric to avoid sediments and debris from entering catch basin.

Contractor will be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the ROADWAY AND TRAFFIC DESIGN STANDARDS SERIES 600 TRAFFIC CONTROL THROUGH WORK ZONES latest edition. They will take all necessary precautions for the safety of, and will provide the necessary protection to prevent damage, injury or loss to: all employees and other persons whom may be affected thereby; all the Work and all materials or equipment to be incorporated therein, whether in storage on or off the work area; and all other property at the work area or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not designated for removal, relocation or replacement in the course of construction.

The Contractor will designate an OSHA Certified "Competent Person", as defined under 29 CFR 1926.32(f), at the site whose duty shall be the prevention of accidents. Under the Excavation standards, tasks performed by the competent person include classifying soil, inspecting protective systems, designing structural ramps, monitoring water removal equipment, and conducting site inspections.

In addition, the competent person shall be available to receive verbal instructions from CEI Team or City representatives regarding installation, adherence to City standards, plans, and Contract Documents as a front-line representative of the Contractor.

Additional site tasks performed by the competent person include but are not limited to weekly safety briefings, daily adherence to MOT set up and takedown,

monitoring of resident and commercial stakeholder requests, and concurrence with CEI Team's daily reports.

The City will not be responsible for the construction means, methods, techniques, sequences or procedures, or the safety precautions and programs incident thereto.

Should the City or the Contractor suffer injury or damage to its person or property because of any error, omission, or act of the other or of any of their employees or agents or others for whose acts they are legally liable, claim shall be made in writing to the other party within a reasonable time of the first observance of such injury or damage.

2.15 Trench Safety Act

Contractor shall comply with the State of Florida "Trench Safety Act" to the extent applicable, which was created to provide for increased worker safety by requiring compliance with sufficient standards for trench safety when the excavation is in excess of five (5) feet deep.

2.16 Emergencies

In emergencies affecting the safety of persons or the Work or property at the site or adjacent thereto, the Contractor, without special instruction or authorization from the City, is obligated to act, at their discretion, to prevent threatened damage, injury or loss. They will give the City prompt written notice of any significant changes in the Work or deviations from the Contract Documents caused thereby.

2.17 City's Field Representative

The City will designate an individual to serve as the City's Field Representative, which will be responsible to administer the Contract and communicate on behalf of the City. The Field Representative shall determine the amount and quality of several kinds of work performed and materials furnished which are to be paid for under the Contract.

The Field Representative will observe the Contractor's work for compliance with the Contract Documents. Such observation will extend to any part of the work done and to the preparation, fabrication, or manufacture of the material to be used. Upon discovery of faulty workmanship or defective materials, the Field Representative shall call the Contractor's attention to the same and reject work and materials not conforming to the requirements of the Contract Documents.

When any work in progress or completed is not Contract

Documents, the Field Representative order the Contractor to shut down that portion of the work affected until the affected work is corrected to the satisfaction of the Field Representative. The Field Representative shall confirm this later in writing as soon as practicable, detailing the reasons for the shutdown. Work performed in violation of the Field Representatives order to shut down will not be accepted or paid for.

The Field Representative is not authorized to revolt, alter, or waive any requirements of the contract. The Field Representative will negotiate and act on behalf of the Owner to the authorized limits of his authority as specified in the Contract Documents.

Whenever the Contractor intends to build, assemble or perform any portions of the work away from the site, the Contractor shall promptly notified the Field Representative of such intentions, including where and why no such work is to be performed, before such work starts. The Contractor shall also make arrangements for access thereto by the Field Representative so that the aforementioned portions of the work may be inspected as needed.

The fact that the Field Representative has not made early discovery of materials furnished or work performed does not meet the requirements of the Contract Documents, shall not bar the Field Representative from subsequently rejecting said materials or work and does not relieve the Contractor of his responsibility to meet the requirements of the Contract Documents.

The Field Representative shall not act as a foreman or perform other duties for the Contractor, nor interfere with the management of the work by the Contractor. The administration, observation of the work, and actions by the Field Representative, as herein provided, shall not be construed as undertaking supervisory control of the construction work or of means and the methods employed by the Contractor or his Subcontractors and shall not relieve the Contractor from any of his responsibilities or obligations under the contract; the Contractor shall not request or attempt to require the Field Representative to undertake such supervisor control or to administer, to supervise, to inspect, to assist, or to act in any manner so as to relieve the Contractor from such responsibilities or obligations.

The Field Representative shall decide all questions relating to the rights of different prime Contractors on the project or site. All materials and each part or detail of the

work shall be subject to observation by the Field Representative and/ or the Architect/ Engineer. The Architect/ Engineer and the Field Representative shall be allowed access to all parts of the work and shall be furnished with such information and assistance by the Contractor as is required.

2.18 Security

Work site(s) must be protected properly in accordance with all Federal, State, County and Municipal laws and ordinances, at the end of each workday and weekend. Contractor is responsible for project security. The Contractor shall protect and secure the site, materials, and equipment from theft and damage, by whatever means deems effective, at the Contractor's cost.

2.19 Work Site Conditions

The Contractor shall at all times ensure that the work site is maintained in a clean and orderly fashion. Contractor shall control dust by watering and sweeping at end of each workday or as directed by City. Dust control must meet City's satisfaction or City will control dust by whatever means deemed necessary and Contractor shall pay all expenses incurred by the City associated with dust control.

As soon as the work in any one locality is completed, the accumulated rubbish or surplus materials shall be promptly removed. The Contractor shall also restore all public and private property in a manner acceptable to the City, to a condition equal to or better than pre-construction conditions. This shall apply to public and private property which has been displaced or damaged during the prosecution of the work, and the Contractor shall leave the site and vicinity unobstructed and in a neat and presentable condition.

2.20 Existing Utilities, Structures, & Facilities

The underground pipes, utilities and structures shown on the Plans are located according to the best information available but may vary by several feet from both the position and elevation shown. The Contractor shall explore far enough ahead of his work to determine the exact location and condition of such utilities, structures or facilities so that, before the pipe is installed, the Engineer may change the line or grade of the pipe or other facility, should that become necessary to avoid a conflict. Should this exploration reveal that adjustments to the work are necessary; the Contractor shall immediately notify the Engineer and coordinate with him to adjust the work in a timely fashion avoiding delays to construction. No request for additional compensation or

Contract time (except for a non- compensable time extension at the sole discretion of the Engineer, whose decision shall be final) resulting from encountering utilities or structures not shown, or differing in location or elevation from that shown, will be considered. The Contractor shall explore sufficiently ahead of the Work to allow time for any necessary adjustments without delay to the progress of the installation. Costs due to delays occasioned by encountering underground utilities or structures which could have or should have been discovered by timely exploration ahead of the Work shall rest solely with the Contractor.

All cost for changing the grade of the proposed "new installation" downward two feet-six inches or less in order to clear obstructions located differently than shown on the Plans, or to clear obstructions located differently than shown on the Plans but the location of which could have become known or should have become known by proper observation of field conditions or the proper exploratory procedure, shall be included in the prices bid under the various items of the Proposal and no additional compensation will be allowed.

All pipes, sewers, drains and other pipe, cables, or conduits, and all other obstructions, whether or not shown, shall be temporarily removed from, or supported during excavation. It is intended that wherever piping systems or utilities such as water, wastewater, air, chemical, electrical or other service lines must be crossed, deflection of the pipe within recommended limits and cover shall be used to satisfactorily clear the obstruction unless otherwise indicated on the plans. The Contractor shall be held responsible for any damage to such installations and shall restore them to service immediately.

Changing the grade of the proposed main by rising deflections, or the alignment by horizontal deflections, will not be considered as extra work, or extra cost, to the Contractor, and in some cases a credit to the Department may be warranted.

Relocation of existing utilities: The relocation of existing utilities, as noted on the Plans, or for the convenience of the Contractor shall be the responsibility of the Contractor. This work shall be completed by either the forces of the existing utility or the Contractor's forces at the discretion of the responsible utility. If the work is to be performed by the Contractor, all work shall be done in accordance with the utility company's requirements. Under no circumstances shall the Contractor be

authorized extra payment for this work, and all cost for the relocation shall be the responsibility of the Contractor.

The Contractor shall also be responsible for the coordination of all existing utility relocations with the appropriate utilities. Where temporary supports or protective encasements are required during the construction, the Contractor shall be responsible for this work at no additional cost.

Any conflicts between the field investigation and the information shown on the plans shall be brought to the immediate attention of the City.

2.21 Changes to the Work

The City may, at any time or from time to time, without notice to the sureties, and only in writing, order additions, deletions or revisions in the Work; these shall be authorized by Change Orders. A Change Order may include any change in the Work within the general scope of the Contract, including but not limited to changes in the specifications (including drawings and designs); in the method or manner of performance of the Work; in the City-furnished facilities, equipment, materials, services, or site; or in directing acceleration in the performance of the Work.

Upon receipt of a Change Order, the Contractor will proceed with the Work involved. All such Work shall be executed under the applicable conditions of the Contract Documents. All Change Orders that add or delete work, or increase or decrease Time, may result in an adjustment to the Contract Price and Time accordingly. Any such changes must be reflected in the Change Order(s), which when signed by the Contractor, shall indicate an agreement of the parties therewith.

The City may authorize minor changes or alterations in the Work not involving extra cost and not inconsistent with the overall intent of the Contract Documents. These may be accomplished by a Field Order. Additional Work performed by the Contractor without authorization of a Change Order will not entitle the Contractor to an increase in the Contract Price or an extension of the Contract Time, except in the case of an emergency as provided in this Solicitation. The City will execute appropriate Change Orders prepared by the City covering changes in the Work to be performed and Work performed in an emergency and any other claim of the Contractor for a change in the Contract Time or the Contract Price which is approved by the City.

It is the Contractor's responsibility to notify his Surety of any changes affecting the general scope of the Work or change in the Contract Price or Contract Time and the amount of the applicable bonds shall be adjusted accordingly. The Contractor will furnish proof of such an adjustment to the City.

2.22 Changes to the Contract Time or Price

The Contract Price constitutes the total compensation payable to the Contractor for performing the Work. All duties, responsibilities and obligations assigned to or undertaken by the Contractor shall be at their expense without changing the Contract Price. Except as herein provided, no order, statement, or conduct of the City shall be treated as a change under this clause or entitle the Contractor to an adjustment to the Contract Price or Time.

If any change order under this clause causes an increase or decrease in the Contractor's cost of, or the time required for, the performance of any part of the Work, under this Contract, whether or not changed by any order, the Contract Price and Time will be adjusted in writing by the same amount.

If the Contractor intends to assert a claim for an adjustment in Contract Price or Time under this clause, he must, within ten (10) days after receipt of a written Change Order, submit to the City a written notice including a statement setting forth the general nature and monetary extent of such claim, and supporting data. No claim by the Contractor for an adjustment in Contract Price or Time hereunder shall be allowed if not submitted in accordance with this section or if asserted after final payment under this Contract.

The value of any Work covered by a Change Order or of any claim for an increase or decrease in the Contract Price shall be determined either by negotiated lump sum or on the basis of the cost of the Work, determined as provided below, plus a mutually agreed upon fee to the Contractor to cover overhead and profit.

The term cost of the Work means the sum of all direct costs necessarily incurred and paid by the Contractor in the proper performance of the Work. Except as otherwise may be agreed to in writing by City, such costs shall be in amounts no higher than those prevailing in Miami-Dade County, shall include only the following items:

- Payroll costs for employees in the direct employ of

Contractor in the performance of the Work described in the Change Order under schedules of job classifications agreed upon by City and Contractor. Payroll costs for employees not employed full time on the Work shall be apportioned based on their time spent on the Work. Payroll costs shall be limited to salaries and wages, plus the costs of fringe benefits which shall include social security contributions, unemployment, excise and payroll taxes, workers' compensation, health and retirement benefits, sick leave, vacation and holiday pay applicable thereto. Such employees shall include superintendents and foremen at the site. The expenses of performing Work after regular working hours, on Sunday or legal holidays shall be included in the above only if authorized by City.

- Cost of all materials and equipment furnished and incorporated in the Work, including costs of transportation and storage, and manufacturers' field services required in connection therewith. All cash discounts shall accrue to Contractor unless City deposits funds with Contractor with which to make payments in which case the cash discounts, shall accrue to the City. All trade discounts, rebates and refunds, and all returns from sale of surplus materials and equipment shall accrue to City, and Contractor shall make provisions so that they may be obtained.
- Payments made by Contractor to the Subcontractors for Work performed by Subcontractors. If required by City, Contractor shall obtain competitive bids from Subcontractors acceptable to him and shall deliver such bids to CITY who will then determine which Bids will be accepted. If a Subcontract provides that the Subcontractor is to be paid on the basis of Cost of Work plus a fee, the cost of the Work shall be determined in accordance with this section.
- Rentals of all construction equipment and machinery and the parts thereof whether rented from Contractor or others in accordance with rental agreements approved by City with the advice of Contractor, and the costs of transportation, loading, unloading, installation, dismantling and removal thereof - all in accordance with terms of said rental agreements. The rental of any equipment or machinery shall cease when the use thereof is no longer necessary for the Work.
- Sales, use or similar taxes related to the Work, and for which Contractor is liable, imposed by any governmental authority.
- Payments and fees for permits and licenses. Costs for permits and licenses must be shown as a

separate item.

- Utilities, fuel and sanitary facilities at the site.
- Minor expenses such as telegrams, long distance telephone calls, telephone service at the site, expressage and similar petty cash items in connection with the Work.
- Cost of premiums for additional Bonds and Insurance required solely because of changes in the Work, not to exceed two percent (2%) of the increase in the Cost of the Work.

The term cost of the Work shall not include the following:

- Payroll costs and other compensation of Contractor's officers, executives, principals (of partnership and sole proprietorships), general managers, engineers, architects, estimators, lawyers, agents, expeditors, timekeepers, clerks and other personnel employed by Contractor whether at the site or in his principal or a branch office for general administration of the Work and not specifically included in the schedule of Work all of which are to be considered administrative costs covered by the Contractor's fee.
- Expenses of Contractor's principal and branch offices other than his office at the site.
- Any part of Contractor's capital expenses, including interest on Contractor's capital employed for the Work and charges against Contractor for delinquent payments.
- Cost of premiums for all bonds and for all insurance policies whether Contractor is required by the Contract Documents to purchase and maintain the same (except as otherwise provided above).
- Costs due to the negligence of the Contractor, any Subcontractor, or anyone directly or indirectly employed by any of them for whose acts any of them may be liable, including but not limited to, correction of defective work, disposal of materials or equipment wrongly supplied and making good any damage to property.
- Other overhead or general expense costs of any kind not otherwise expressly included as an appropriate cost of Work under this Solicitation.

Upon the issuance of a Change Order, Contractor's overhead and profit shall be determined as follows:

- In the event of an oversight or omission by the Contractor no compensation for overhead or profit will be provided.
- If the Change Order is not due to the Contractor's oversight or omission, overhead and profit shall be

a mutually acceptable firm fixed price.

- If no fixed price can be agreed upon, then ten percent (10%) fixed fee based on the estimate of the various portions of the Cost of the Work.

Whenever cost of Work is to be determined pursuant to the above process, the Contractor will submit in form prescribed by City an itemized cost breakdown together with supporting data.

The amount of credit allocated by the Contractor to the City for any change order which results in a net decrease in cost will be the amount of the actual net decrease. When both additions and credits are involved in any one change, the net shall be computed to include overhead and profit, identified separately, for both additions and credit, provided however, the Contractor shall not be entitled to claim lost profits for any Work not performed.

Force Account Work

If the City and the Contractor cannot reach an agreement on an equitable adjustment to the Contract Price for any work as prescribed above, then the additional Work will be performed on a Force Account basis as directed by the City's Field Representative with review by the Architect/ Engineer and paid for as specified below.

In the event additional Work is performed on a Force Account basis, then the Contractor and the Subcontractors, as appropriate, shall maintain itemized daily records of cost, quantities, labor and the use of authorized special equipment or machinery.

The itemized daily record will be submitted to the Architect/Engineer daily for approval, which shall be subject to audit by the City. The Contractor, including its Subcontractor(s) of any tier performing the work, and the Architect/ Engineering shall compare records of the cost of force account work at the end of each day. The agreement shall be indicated by signature of the Contractor, the Subcontract performing the work, and the Architect/ Engineer or their duly authorized representatives.

No payment will be made for work performed on a force account basis until the Contractor has furnished the Architect/ Engineer with duplicate itemized statements of the cost of such force account work detailed as follows:

- Name, classification, dates, daily hours, total hours, rate and extension for each laborer, tradesman, and foreman.
- Designation, dates, daily hours, total hours, rental

rate, and extension of each unit of special machinery and equipment.

- Quantities of materials, prices, and extensions.
- Transportation of materials.

The statements shall be accompanied and supported by a receipted invoice of all materials used and transportation charges. However, if materials used on the force account work are not specifically purchased for such work but are taken from the Contractor's stock, then in lieu of the invoices the Contractor shall furnish an affidavit certifying that such materials were taken from its stock, that the quantity claimed was actually used, and that the price and transportation claimed represent the actual cost to the Contractor.

2.23 Value Engineering Change Proposals

The Contractor may submit to the City's Architect/Engineer one or more cost reduction proposals for changing the Contract requirements. The proposals shall be based upon a sound study made by the Contractor indicating that the proposal:

- Will result in a net reduction in the total cost;
- Will not impair any essential function or characteristic of the Work such as safety, service life, reliability, economy of operation, ease of maintenance and necessary standardized features;
- Will not require an unacceptable extension of the Contract completion time; and
- Will require a change in the Contract Documents and such change is not already under consideration by the Owner.

Contractor shall specifically identify any such proposals under this section with the heading "Value Engineering Change Proposal". The Owner may accept in whole or in part any proposal submitted pursuant to the previous paragraph on Value Engineering Change Proposals by issuing a Change Order which will identify the proposal on which it is based. The Change Order will provide for a Contract change in the Contract price and will revise any other affected provisions of the Contract Documents. The equitable adjustment in the Contract price will be established by determining the net savings resulting from the accepted change. The net savings resulting from the change will be shared between the Contractor and the Owner based on 50 percent for the Contractor and 50 percent for the Owner and will be limited to 10 percent of the total construction contract amount for all Value Engineering Change Proposal submitted via Change Order. Net savings will be determined by deducting from the proposal's estimated gross savings (1) the

Contractor's costs of developing and implementing the proposal (including any amount attributable to a subcontractor) and (2) the estimated amount of increased costs to the Owner resulting from the change, such as evaluation, implementation, inspection, related items, and Owner - furnished material. Estimated gross savings will include Contractor's labor, material, equipment, overhead, profit and bond. The Contract price will be reduced by the sum of the Owner's costs and share of the net savings. For the purposes of this article, the applicable provisions of the Contract Documents shall be used to determine the equitable adjustment to the Contract price.

The Owner will not be liable for delay in acting upon, or for failure to act upon, any proposals submitted pursuant to of this article. The decision of the Owner as to the acceptance or rejection of any such proposal under the Contract will be final. The submission of a proposal by the Contractor will not in itself reflect the rights or obligation of either party under the Contract.

The Contractor shall have the right to withdraw part or all of any Value Engineering Change Proposal he may make at any time prior to acceptance by the Owner. Such withdrawal shall be made in writing for the Architect/ Engineer. Each such proposal shall remain valid for a period of 60 days from the date submitted. If the Contractor wishes to withdraw the proposal prior to the expiration of the 60-day period he will be liable for the cost incurred by the City in reviewing the proposal.

2.24 Suspension of Work and Termination

The City may, at any time and without cause, suspend the Work or any portion thereof for a period of not more than ninety (90) days by notice in writing to the Contractor which shall fix the date on which Work shall be resumed. For suspensions longer than ninety (90) days, The Contractor will be allowed an increase in the Contract Price or an extension of the Contract Time, or both, directly attributable to any suspension if they make a claim in accordance with the process set forth in this Solicitation.

Work shall be suspended during inclement weather when the weather is unfit for good and careful Work to be performed unless written permission is provided by the City. Should the severity of the weather continue, the Contractor upon the direction of the City, shall suspend all Work until instructed to resume operations by the City and the Contract Time shall be extended to cover the duration of the order.

If the Contractor is adjudged bankrupt or insolvent, or if they make a general assignment for the benefit of their creditors, or if a trustee or receiver is appointed for the Contractor or for any of their property, or if they file a petition to take advantage of any debtor's act, or to reorganize under bankruptcy or similar laws, or if they repeatedly fails to supply sufficient skilled workmen or suitable materials or equipment, or if they repeatedly fail to make prompt payments to Subcontractors or for labor, materials or equipment or they disregards laws, ordinances, rules, regulations or orders of any public body having jurisdiction, or if they disregard the authority of the City, or if they otherwise violate any provision of the Contract Documents, then the City may, without prejudice to any other right or remedy and after giving the Contractor and their surety seven (7) days written notice, terminate the services of the Contractor and take possession of the Project and of all materials, equipment, tools, construction equipment and machinery thereon owned by the Contractor, and finish the Work by whatever method they may deem expedient. In such case the Contractor shall not be entitled to receive any further payment until the Work is finished. If the unpaid balance of the Contract Price exceeds the direct and indirect costs of completing the Project, including compensation for additional professional services, such excess shall be paid to the Contractor. If such costs exceed such unpaid balance, the Contractor will pay the difference to the City. Such costs incurred by the City will be determined by the City and incorporated in a Change Order.

Without limitation of the foregoing, upon seven (7) days written notice to the Contractor, the City may, without cause and without prejudice to any other right or remedy, elect to terminate the Agreement. In such case, the Contractor shall be paid for all Work executed and accepted by the City as of the date of the termination. No payment shall be made for profit for Work which has not been performed.

If after termination of the Contractor under this Section, it is determined by a court of competent jurisdiction for any reason that the Contractor was not in default, the rights and obligations of the City and the Contractor shall be the same as if the termination had been issued pursuant to the City's right to terminate for convenience as set forth in this Solicitation.

Where the Contractor's services have been so terminated by the City said termination shall not affect any rights of the CITY against the Contractor then existing or which may thereafter accrue. Any retention or

payment by the City due to Contractor will not release the Contractor from liability.

In the case of termination of this Contract before completion for any cause whatever, the Contractor, if notified to do so by the City, shall promptly remove any part or all of his equipment and supplies from the property of the City. Should the Contractor not remove such equipment and supplies, the City shall have the right to remove them at the expense of the Contractor. Equipment and supplies shall not be construed to include such items for which the Contractor has been paid in whole or in part.

If, through no act or fault of the Contractor, the Work is suspended for a period of more than ninety (90) days by the City or under an order of court of other public authority, or the Contractor fails to act on any Application for Payment within thirty (30) days after it is submitted, or the City fails to pay the Contractor any sum approved by the City, within thirty (30) calendar days of its approval, and presentation, then the Contractor may, upon twenty (20) calendar days written notice to the City, terminate the Agreement. The City may remedy the delay or neglect within the twenty (20) calendar days' time frame. If timely remedied by the City the Contract shall not be considered terminated. In lieu of terminating the Agreement, if the City has failed to act on an Application for Payment or the City has failed to make any payment as aforesaid, the Contractor may upon ten (10) calendar days' notice to the City and the Contractor stop the Work until they have been paid all amounts then due. If the Contractor stops neither by default nor by non-payment from the City, the Contractor will be responsible for 100% of the difference between the total of his/her Bid and the second lowest Bid.

2.25 Payments and Completion

At least ten (10) days before each progress payment falls due (but not more often than once a month), the Contractor will submit to the City a partial payment estimate filled out and signed by the Contractor covering the Work performed during the period covered by the partial payment estimate and supported by such data as the City may reasonably require.

The City will within ten (10) days after receipt of each partial payment estimate, either indicate in writing their approval of payment and present the partial payment estimate to the City, or return the partial payment estimate to the Contractor, indicating in writing their reasons for refusing to approve payment. In the latter case, the Contractor may make the necessary

corrections and resubmit the partial payment estimate. The City, will within thirty (30) days of presentation to them of any approved partial payment estimate, pay the Contractor a progress payment on the basis of the approved partial payment estimate. The City may retain five percent (5%) of the amount of each payment until final completion and acceptance of all Work covered by the Contract Documents. On completion and acceptance of a part of the Work on which the price is stated separately in the Contract Documents, payment may be made in full, including retained percentages, less authorized deductions. Any interest earned on the retainage shall accrue to the benefit of the City.

The City will provide Contractor with the appropriate forms by which to submit the progress payment estimates and requests as well as the certification of Contractor; partial release by subcontractors, suppliers, and/or Contractor; and any additional documents the City may reasonably require.

The City shall have the right to receive from the Contractor, before Contractor receives final payment, final releases of lien executed by all persons, firms or corporations who have performed or furnished labor, services or materials, directly or indirectly, used in the Work; inclusive of Final As-builts. Likewise, as a condition to receiving any progress payment, the City may require the Contractor to furnish partial releases of lien executed by all persons, firms and corporations who have furnished labor, services or materials incorporated into the Work during the period of time for which the progress payment is due, releasing such lien rights as those persons, firms or corporations may have for that period, red-line as-builts, progress schedule.

Acceptance by Contractor of final payment shall operate as a release to the City and a waiver of all claims and all liability to the Contractor other than claims in stated amounts as may be specifically excepted by the Contractor for all things done or furnished in connection with the Work and for every act and neglect of the City and others relating to or arising out of this Work. Any payment, however, final or otherwise, shall not release the Contractor of their sureties from any obligations under the Contract Documents or the Performance Bond and Payment Bonds.

2.26 Testing & Inspections

The Field Representative, Architect or Engineer and other representatives of City, testing agencies and governmental agencies with jurisdictional interests shall have access to the Work at reasonable times for their

observation, inspecting and testing. Contractor shall provide proper and safe conditions for such access.

The Contractor shall give City timely notice of readiness of the Work for all required inspections, tests, observations or approvals. Inspections, tests or observations by the City's Representative, the Architect or Engineer, City or its agents may be performed at its discretion to provide information to the City on the progress of the Construction. However, such information is not intended to fulfill the Contractor's obligations in accordance with the Contract Documents.

Contractor shall assume full responsibility, pay all costs in connection therewith and furnish City the required certificates of inspection, testing or approval for all materials, equipment or the Work or any part thereof unless otherwise specified herein.

Storm Sewer System Testing

- Equipment must conform to applicable sections of ASTM and all other applicable industry standards and codes.
- Clean all manholes, pipes, and structures by removing sheeting, bracing, forms, soil sediment, concrete waste, and other debris.
- Do not discharge soil sediment or debris to drainage channels or existing storm sewers. Dispose of properly in a waste containment site that is acceptable to the City.
- Examine structures and pipes for:
 - Damage.
 - Indication of displacement of reinforcement, forms, pipes, or bedding.
 - Porous areas or voids.
 - Proper placement of seals, gaskets, and embedment.
 - Visible infiltration.
- Verify that structures and pipes are set to true line, grade, and plumb.
- Verify structure and pipe dimensions and thickness.
- Measure actual inside dimensions of all flexible pipe prior to installation. Use these dimensions when sizing the mandrel should deflection testing be required.
- Storm sewer pipes shall be inspected by flashing a light between structures or by physical passage where space permits.
 - Lamping shall be done after pipe trench backfill is compacted and brought to grade or pavement subgrade.
 - Full pipe diameter ("full moon") shall be visible for grade alignment.

- No less than half pipe diameter ("half-moon") shall be visible for horizontal alignment.
- Storm sewer structures shall be plugged in each direction and cleaned thoroughly to the bottom of sump area.
 - There will be no sediment or debris permitted and all pipe inlets connections will be watertight.
 - The tops of structures will be thoroughly sealed inside and out with no brick exposure.
 - Manhole rim and covers will be thoroughly sealed inside and out with no brick exposure.

Density Testing

Density tests shall be taken by an independent testing laboratory certified by the State of Florida and approved by the designated City representative and shall be paid for by Contractor, at no additional cost to the City. A compaction test, for both the base and subgrade, shall be performed for every section of new pavement and at least one (1) test for every 250 square yards of new pavement. In addition, density testing shall be performed for installation in swale areas at a frequency of one test per 50 feet of trench, or adjacent to newly installed inlets at the discretion of the City representative.

Compaction test reports of sub-grade and base rock shall be submitted for approval to the designated City representative prior to installation of final asphaltic wearing surface.

If any Construction that is to be inspected, tested or approved is covered without written concurrence of City's Representative, it must, if requested by City or the City's Representative, be uncovered for observation. Such uncovering shall be at Contractor's expense and will exclude the right to an increase in the Contract Price or Contract Time unless Contractor has given City or the City's Representative timely written notice of Contractor's intention to cover such Construction and City, or the City's Representative has not acted with reasonable promptness in response to such notice.

If City considers it necessary or advisable that covered Work be observed by City's Representative or the Architect or Engineer, or inspected or tested by others, Contractor, at City's request, shall uncover, expose or otherwise make available for observation, inspection or testing as City may require, that portion of the Work in question, furnishing all necessary labor, material and equipment. If it is found that such Work is defective, Contractor shall bear all the expenses of such uncovering, exposure, observation, inspection and

testing and of satisfactory reconstruction, including compensation for additional professional services and any additional expenses experienced by the City due to delays to others performing additional work, other contractual obligations, and City shall be entitled to issue an appropriate deductive Change Order. Contractor shall further bear the responsibility for maintaining the schedule and will not be allowed an increase in Contract Price or Contract Time due to the uncovering. If, however, such Construction is not found to be defective, Contractor shall be allowed an increase in the Contract Price or the Contract Time, or both, directly attributable to such uncovering, exposure, observation, inspection, testing and reconstruction if it makes a claim therefore as provided in accordance with the Contract Documents.

Except as otherwise provided, sampling and testing of all materials, and the laboratory methods and testing equipment required under these specifications shall be in accordance with the latest standards of the American Society for Testing Materials.

The Contractor shall furnish the required samples for testing without charge. The Contractor shall provide at least 24-hour notice when requesting testing to be performed. In locations where coring's are taken by the approved testing lab, the Contractor shall be responsible for plugging these core holes.

All material tests will be made by an independent testing laboratory that may be selected by the City. Excluding Density Testing, where tests indicate that materials are in accordance with specified requirements, the City shall bear the testing cost. When tests reveal that conditions or materials do not comply with the specifications, the cost of such tests shall be assessed against the Contractor.

2.27 Contractor's General Warranty & Guarantee

Contractor warrants and guarantees to City that all Work shall be in accordance with the Contract Documents and will not be defective. Contractor further warrants and guarantees that title to all Work, materials and equipment covered by an application for payment, whether incorporated in the Project or not, will have passed to the City prior to the making of the application for payment, free and clear of all liens, claims, security interest and encumbrances (hereafter referred to as "Liens"); and that no Work, materials or equipment covered by an application for payment will have been acquired by the Contractor or by any other person performing the Work at the site or furnishing materials and equipment for the project, subject to an agreement under which an interest

therein or encumbrance thereon is retained by the seller or otherwise imposed by the Contractor or such other person.

The Contractor's obligation to perform and complete the Work in accordance with the Contract Documents shall be absolute. None of the following will constitute an acceptance of Work that is not in accordance with the Contract Documents or a release of Contractor's obligation to perform the Work in accordance with the Contract Documents:

- Observations by City or City's Representative, based on the recommendation of the Architect or Engineer;
- Payment by City of any progress or final payment;
- The issuance of a certificate of Substantial Completion, certificate of Final Completion, or any payment related thereto by City;
- City's use or occupancy of the Work;
- Any acceptance by City or any failure to do so;
- Any review and approval of a submittal or the issuance of a notice of acceptability by the City's Representative;
- Any inspection, test, or approval by others; or
- Any correction of defective Work by City.

If the Contractor is notified to correct defective or nonconforming work, and the Contractor fails to promptly proceed with corrective action in a reasonable time, the City may, at its sole discretion and upon written notice to Contractor, complete the redesign, repair, rework or replacement of nonconforming work by the most expeditious means available and back charge the Contractor for the cost incurred. The cost of back charge work shall include all reasonable costs associated with the corrective action. The City shall separately invoice or deduct from payments, otherwise due to the Contractor, the costs as provided herein. The City's right to back charge is in addition to any for all other rights and remedies provided in this contract, or by law. The performance of work, on behalf of the City, shall not relieve the Contractor of any of its responsibilities under this contract including but not limited to express or implied warranties, specified standards of quality, contractual liabilities and indemnification, and the Contract Time.

The City will have authority to disapprove or reject Work which is "defective" (which term is hereinafter used to describe Work that is unsatisfactory, faulty or defective, or does not conform to the requirements of the Contract Documents or does not meet the requirements of any

inspection, test or approval referred to in Special Condition, or has been damaged prior to final acceptance) at Contractor's expense.

If the Work is defective, or Contractor fails to supply sufficient skilled workers or suitable materials or equipment, or fails to furnish or perform the Work in such a way that the completed Work will conform to the Contract Documents, City may order Contractor to stop the Work, or any portion thereof, until the cause for such failure has been eliminated; however, this right of City to stop the Work shall not give rise to any duty on the part of City to exercise this right for the benefit of Contractor or any other party. The Contractor shall not be allowed an increase in Contract Price or the Contract Time or both as a result of the stopping of Work under this section.

If required by the City's Representative, with the recommendation of the Architect and/or Engineer, Contractor shall promptly, as directed, either correct all defective Work, whether or not fabricated, installed or completed, or, if the Work has been rejected by the City's Representative, upon the recommendation of the Architect or Engineer, remove it from the site and replace it with non-defective Work. Contractor shall bear all direct, indirect and consequential costs of such correction or removal (including but not limited to fees and charges of the City's Representative, the Architect or Engineer, attorneys and other professionals) made necessary thereby.

Without prejudice to any other right of the City, if within one (1) year after the date of final completion or within any designated manufacturer's warranty, whichever is greater, or such longer period of time as may be prescribed by laws or regulations or by the terms of any applicable special guarantee required by the Contract Documents or by any specific provision of the Contract Documents, any Work is found to be defective, Contractor shall promptly, without cost to City and in accordance with City's written instructions, either correct such defective Work, or, if it has been rejected by City or the City's Representative, based on the recommendation of the Architect or Engineer, remove it from the site and replace it with non-defective Work. If Contractor does not promptly comply with the terms of such instructions, or in an emergency where delay would cause serious risk of loss or damage, City may have the defective Work corrected or the rejected Work removed and replaced, and all of the City's direct, indirect and consequential costs of such removal and replacement (including but not limited to fees and charges of the

Architect or Engineer) will be reimbursed by Contractor. In special circumstances where a particular item of equipment is placed in continuous service before Substantial Completion of all the Work, the correction period for that item may start to run from an earlier date if so, provided in the Specifications or by written amendment.

City shall reserve and retain all of its rights and remedies at law and equity against Contractor and its surety for damages and for corrections of any and all latent defects.

Any defective Construction that is either corrected or rejected and replaced will be warranted and guaranteed for a period of one (1) year from the date of acceptance of such correction or removal and replacement, even if it had previously been corrected or replaced, in accordance with the provisions of this Article 12. If within such an extended Warranty Period, the Work is once again found to be defective, City shall be entitled to all of City's rights and remedies under this Article.

2.28 Materials

The Contractor warrants that all materials and equipment shall be of good quality and new, unless otherwise provided in the specifications and that the work will be free from defects whether patent or latent in nature. All materials and equipment shall be applied, installed, connected, erected, used, cleaned and conditioned in accordance with the instructions of the applicable supplier except as otherwise provided in the specifications.

The Contractor shall store materials, at his expense, in areas approved by the City. The Contractor, at their own expense, shall maintain these areas in a clean, orderly condition so as not to cause a nuisance in the area. The Contractor shall restore the storage area to its original or better condition, with all its appurtenances, in kind, to the satisfaction of the City, at the Contractor's discretion, if the Contractor chooses to stage material outside of the designated area, with prior approval from the City.

All salvageable material and/or equipment removed from the existing construction for which specific use, relocation or other disposal is not specifically noted on the drawings or otherwise specified, will remain the property of the City and be turned over to the City. All material and/or equipment not in salvageable condition as determined by the City Representative must be disposed of by the Contractor. The actual storage site for salvageable material will be designated by the City.

All excess excavated material and debris not required for backfill (unless otherwise noted), including broken pipe, sidewalks, curbs and other concrete items, together with all roots, boards and other debris are to be disposed of by the Contractor at an appropriate legal site, at no additional cost to the City.

2.29 Equipment

All construction equipment necessary and required for construction of this project shall be on the construction site, in excellent working condition, before construction is permitted to start. The Contractor shall provide such tamping tools and equipment as are necessary for the proper compaction of the backfill material.

2.30 Water Usage

All City potable water used during the project shall be metered through a hydrant meter or meters obtained from the Miami-Dade County Water and Sewer Department at the Contractor's expense.

2.31 Staging

No staging site is available for this project. Contractor must use available space along the public right-of-way without impacting or closing sidewalks and/or the roadway or provide documentation for Contractor selected staging area prior to commencement of work. The staging site/area is the responsibility of the Contractor and the Contractor shall be responsible for the restoration of the area at no additional cost to the City. Staging sites shall be protected and shall have erosion and sedimentation control measure such as silt fence, at no additional cost to the City.

2.32 Liquidated Damages

Upon failure of the Contractor to complete the Work within the time specified for completion, (plus approved extensions if any) the Contractor shall pay to the City the sum of ONE THOUSAND SIX HUNDRED AND SIXTY-FIVE DOLLARS AND 00/100 (\$1,665.00) for each calendar day that the completion of the Work is delayed beyond the time specified in the Contract for completion, as fixed and agreed liquidated damages and not as a penalty. Liquidated damages are hereby fixed and agreed upon between the parties, recognizing the impossibility of precisely ascertaining the amount of damages that will be sustained by the City as a consequence of such delay and both parties desiring to obviate any question of dispute concerning the amount of said damages and the cost and effect of the failure of the Contractor to complete the Contract on time. Regardless of whether or not a single Contract is

involved, the above-stated liquidated damages shall apply separately to each portion of the Work for which a time of completion is given. The CITY shall have the right to deduct from and retain out monies which may be then due, or which may become due and payable to the Contractor, the amount of such liquidated damages, the Contractor shall pay in full such liquidated damages.

[END OF SECTION]

ARTICLE 3 – SCOPE OF WORK / TECHNICAL SPECIFICATIONS

3.1 Purpose and Intent

The City of Doral is seeking sealed bids from qualified Contractors for all material, labor, equipment and services to complete the Doral Boulevard Entry Features work at NW 36th Street and Palmetto Expressway, as more particularly described in this ITB.

3.2 Scope of Work

The Doral Boulevard Entry Features work generally entails the removal of two (2) existing entry signs, including the removal and disposal of the existing foundation, signposts and supports. The selected contractor shall also be responsible for the installation of the new sign structures, to include site civil, electrical, irrigation, and landscaping, in accordance with the plans and specifications compiled and attached hereto as composite Exhibit E. The new signposts shall be painted with the specified paint quality and color.

The structural design specs were designed by Calvin, Giordano & Associates, Inc. and are as per approved Structural design plans signed and sealed by Professional Engineer Sean Mc Farland on 2-7-2022 and we submitted to the South Florida Water Management District via permit No. 13-06739-W. The contractor will submit shop drawings for all materials to the design engineer for approval prior to installation. This work is currently under an FDOT agreement that will require engineer sign-off prior to project close out. The contractor must provide an as-built survey to the engineer of record for final FDOT sign-off. Contractor must abide by Miami Dade County Permit # TREE-2314544.

The City reserves the right to utilize any combination of the base bid, add alternates as they so desire to achieve the proper balance between the required improvements, desired improvements, and the City's available project budget. The City reserves the right to request per unit/each pricing of materials listed on the bid form for clarification or to purchase additional materials.

3.3 Qualifications

For Contractors to be considered, Contractors must submit with their bid evidence that they have sufficient experience and are qualified to satisfactorily perform the work required by this Solicitation, in the City's sole discretion.

Accordingly, Contractors must provide evidence of the successful completion of at least three (3) projects of similar size and scope, including at least one (1) entry feature project 10 FT or more in height, with each project at least half a million dollars (\$500,000) in construction costs and performed in Miami-Dade County or Broward County within the last ten (10) years. Each project listed must have been performed for local government, County and/or state agency with verifiable references.

One of the following licenses (valid, current, and active) is required within bid submittal package: State Certified General Contractor License, provided by the State of Florida Construction Industry Licensing Board, pursuant to the provisions of Section 489.115 of the Florida Statutes, or Certificate of Competency from the Miami-Dade County's Construction Trades Qualifying Board as a General Contractor, commensurate to the requirements of the Scope of Work as a General Contractor.

3.4 Additional Specifications

In addition to the requirements set forth in the body of this solicitation, Awarded Contractor shall comply

with the provisions and specifications contained in the following documents, which are attached and incorporated herein as composite Exhibit D:

1. Preconstruction Conference
2. Site Conditions
3. Hurricane Preparedness
4. Protection of Existing Facilities, Vegetation, Structures, Utilities, and Improvements
5. Interference with Existing Utilities
6. Environmental Protection and Special Controls
7. Contaminated Soil / Groundwater
8. Clearing and Grubbing / Landscaping / Site Cleanliness
9. Concrete Driveway, Sidewalk, and Curb and Gutter Removal and Replacement
10. Excavation / Trench Stabilization / Trench Overcut / Compacted Backfill
11. Shop Drawings, Product Data, and Samples
12. Form of Bid Bond
13. Form of Payment Bond
14. Form of Performance Bond

ARTICLE 4 – REQUIRED SUBMISSION FORMS

INTERESTED PROPOSERS SHALL SUBMIT THE FOLLOWING FORMS IN THE EXACT SEQUENCE PROVIDED, INCLUDING INSERTION OF DOCUMENTS WHERE SPECIFIED. THE FOLLOWING MATERIALS ARE CONSIDERED ESSENTIAL AND NON-WAIVABLE FOR ANY RESPONSE TO THIS SOLICITATION.

The required submission forms are attached to this Solicitation as Exhibit A, and are inclusive of the following:

1. Solicitation Response Form
2. Bid Price Sheet
3. Bidder Qualification Statement
4. List of Proposed Subcontractors
5. Bidder/Proposer Affidavits
 - Ownership Disclosure
 - Public Entity Crimes
 - Compliance with Foreign Entity Laws
 - Disability Non-Discrimination & Equal Employment Opportunity
 - Conformance with OSHA Standards
 - E-Verify Program Affidavit
 - No Contingency Affidavit
 - Copeland “Anti-Kickback” Act Affidavit
 - Non-Collusion Affidavit
 - Drug Free Workplace Program
 - Cone of Silence Certification
 - Bidder Certification
6. Conflict of Interest Disclosure
7. Certificate of Authority
8. Trench Safety Form

SOLICITATION RESPONSE FORM

**City of Doral ITB No. 2024-11
Construction of City of Doral Entry Features**

Date Submitted	
Company Name	
Date of Entity Formation	
Entity Type (select one)	Corporation / Partnership / LLC / Other:
Corporate Address	
Office Location	
FEI/EIN No.	
Authorized Representative (Name and Title)	

- Bidder has the following License (select at least one and attach copy):
 - State Certified General Contractor License, provided by the State of Florida Construction Industry Licensing Board
 - Certificate of Competency from Miami-Dade County Construction Trades Qualifying Board as a General Contractor
- The undersigned Bidder/Proposer agrees, if this Bid is accepted by the City, to enter into an agreement with the City of Doral to perform and furnish all goods and/or services as specified or indicated in the Contract for the Price and within the timeframe indicated in this proposal and in accordance with the terms and conditions of the Contract.
- Bidder/Proposer accepts all of the terms and conditions of the Solicitation, including without limitation those dealing with the disposition of Bid Security. This Bid will remain subject to acceptance for 180 days after the day of Bid opening. Bidder/Proposer agrees to sign and submit the Contract with any applicable documents required by this ITB within ten days after the date of City’s Notice of Award (If applicable).
- By responding to this sealed Solicitation, the Bidder/Proposer makes all representations required by the Solicitation and further warrants and represents that Bidder/Proposer acknowledges that it has received and examined copies of the entire Solicitation documents including all of the following addenda:

Addendum No.: _____ Dated: _____ Addendum No.: _____ Dated: _____

Addendum No.: _____ Dated: _____ Addendum No.: _____ Dated: _____

Check here If no Addenda were issued.
- Bidder/Proposer further warrants and represents that it has familiarized themselves with the nature and extent of the Contract, required goods and/or services, site, locality, and all local conditions and applicable laws and regulations that in any manner may affect cost, progress, performance, or furnishing of the Work.
- Bidder/Proposer further warrants and represents that it has studied carefully all reports and drawings of subsurface conditions and drawings of physical conditions to the extent applicable to the Work, and has obtained and carefully

studied (or assumes responsibility for obtaining and carefully studying) all information that pertains to the subsurface or physical conditions at the site or otherwise may affect the cost, progress, performance, or furnishing of the Work, and no additional examinations, investigations, explorations, tests, reports or similar information or data are or will be required by Bidder/Proposer for such purposes.

- 7. Bidder/Proposer further warrants and represents that it has given the City written notice of all errors or discrepancies it has discovered in the Contract and the resolution thereof by the City is acceptable to Bidder/Proposer.
- 8. Bidder/Proposer further warrants and represents that this Bid/Proposal is genuine and not made in the interest of or on behalf of any other undisclosed person, firm or corporation; Bidder/Proposer has not directly or indirectly induced or solicited any other Bidder/Proposer to submit a false or sham Proposal; Bidder/Proposer has not solicited or induced any person, firm or corporation to refrain from submitting; and Bidder/Proposer has not sought by collusion to obtain for itself any advantage over any other Bidder/Proposer or over the City.
- 9. Bidder/Proposer understands that the quantities provided are only provided for proposal evaluation only. The actual quantities may be higher or lower than those in the proposal form.
- 10. Bidder/Proposer understands and agrees that the Contract Price is Unit Rate Contract to furnish and deliver all of the Work complete in place as such the Proposer shall furnish all labor, materials, equipment, tools superintendence, and services necessary to provide a complete Project.

11. Communications concerning this Proposal shall be addressed to:

Bidder/Proposer: _____

Telephone: _____

Email Address: _____

Attention: _____

12. The terms used in this response which are defined in the above-referenced Solicitation shall have the meanings assigned to them in such Solicitation.

STATEMENT

I understand that a "person" as defined in 287.133(1)(e), Florida Statutes, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter into a binding Contract and which Bids or applies to Bid on Contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "persons" includes officers, directors, executives, partners, shareholders, employees, members, and agents active in management of the entity.

SUBMITTED THIS _____ DAY OF _____, 2024.

Company Name: _____

Company Address: _____

Authorized Representative Signature: _____

BID PRICE SHEET

ITEM	DESCRIPTION	UNIT	QTY.	UNIT PRICE	COST
101-1	MOBILIZATION/DEMOBILIZATION	LS	1		
101-1-2	STORMWATER PREVENTION PLAN.	LS	1		
102-1	MAINTENANCE OF TRAFFIC	LS	1		
101-1-1	CLEARING AND GRUBBING (INCLUDING POST AND FENCE REMOVAL)	LS	1		
110-21	TREE PROTECTION BARRIER	LF	274		
120-1-1	SITE GRADING (INCLUDING EXCAVATION WORK)	LS	1		
570-12A	PERFORMANCE TURF, SOD (ST AUGUSTINE FLORATAM SOD)	SY	520		
570-12B	6.5" ALUMINUM EDGE	LF	121		
570-12C	CHATTAHOOCHEE RIVER STONE	CY	4		
570-12D	EXCAVATION	CY	178		
570-12E	PLANTING SOIL	CY	231		
570-12F	MULCH	CY	28		
580-1	LANDSCAPE-LIGUSTRUM JAPONICUM (FG, 10' HT X 6' SPR, 2" C)	EA	4		
580-1	LANDSCAPE-PODOCARPUS MACROPHYLLUS ` (FG, 10' HT X 4' SPR, 2" C)	EA	10		
580-1	LANDSCAPE-ROYSTONEA ELATA (FG, 25' OA, 10' WD)	EA	6		
580-1	LANDSCAPE-CRINUM AUGUSTUM `QUEEN EMMA` (7 G, 36" HT X 30" SPR)	EA	12		
580-1	LANDSCAPE-AECHMEA BLANCHETIANA (7 G, 24" X 24")	EA	61		
580-1	LANDSCAPE-CHRYSOBALANUS ICACO `RED TIP` (3 G,	EA	22		
580-1	LANDSCAPE-CORDYLINE FRUTICOSA (7 G, 30" HT)	EA	97		
580-1	LANDSCAPE-FICUS MICROCARPA `GREEN ISLAND` (3 G, 18" X 18")	EA	322		
580-1	LANDSCAPE-DURANTA ERECTA `GOLD MOUND` (3 G, 12" HT. X 12" SPR.)	EA	171		
580-1	LANDSCAPE-PODOCARPUS MACROPHYLLUS `DWARF PRINGLES` (3 G, 12"	EA	176		
580-9-2	LANDSCAPE-PALM COMPLETE REMOVAL (PALMS, >=14' OF CLEAR TRUNK, LARGE PALM REMOVAL)	EA	4		
581-1	RELOCATE TREES & PALMS (PALMS, <14' OF CLEAR TRUNK, SMALL PALM RELOCATION)	EA	2		
590-70	LANDSCAPE IRRIGATION SYSTEM	LS	1		
590-70A	TEMPORARY WATERING (PRE-IRRIGATION OPERATION)	LS	1		
630-2-11	CONDUIT 2" PVC (OPEN TRENCH)	LF	90		
630-2-11	CONDUIT 1" PVC (OPEN TRENCH)	LF	525		

630-2-11	CONDUIT 3/4" PVC (OPEN TRENCH)	LF	109		
630-2-11	CONDUIT 1/2" PVC (OPEN TRENCH)	LF	399		
635-2-11	PULL & SPLICE BOX	EA	12		
635-3-13	JUNCTION BOX	EA	14		
700-1A	STRUCTURE GATEWAY SIGNS COMPLETE AS STRUCTURES PLAN DESIGNED	EA	2		
700-1A	FOUNDATION GATEWAY SIGNS COMPLETE AS STRUCTURES PLAN DESIGNED	EA	2		
715-6A	LIGHT POLE COMPLETE (LUMINAIRE, POLE, FOUNDATION)	EA	12		
715-1-15	#1/0 CU WIRING	LF	1,814		
715-1-13	#3 CU WIRING	LF	1,014		
715-1-13	#4 CU WIRING	LF	605		
715-1-12	#6 CU WIRING	LF	338		
715-1-11	#10 CU WIRING	LF	550		
715-1-1A	#12 CU WIRING	LF	2,848		
715-1-1B	F&I BELDEN 3105A DMX CABLE	LF	847		
715-1-1B	F&I PANEL SP1 (BREAKERS, SPD, ETC.)	LS	1		
715-1-1B	F&I ELECTRICAL RACKS (FOOTERS, RACK, ETC.)	LS	1		
715-1-1B	F&I 10'X5/8" THREADED GROUND ROD	EA	2		
715-1-1B	F&I GROUND RODS TEST WELL	EA	4		
715-1-1B	F&I PHOTOCELL	EA	2		
715-1-1B	F&I DMX/RDM CONTROL SYSTEM	LS	1		
999-1CG	F&I WEATHERPROOF GFCI RECEPTACLE	EA	2		

TOTAL BASE BID: _____

DEDICATED ALLOWANCE (2% OF BASE BID) FOR PERMITTING: _____

CONTINGENCY (10% OF BASE BID) FOR UNFORSEEN CONDITIONS: _____

TOTAL BID (BASE BID + DEDICATED ALLOWANCE + CONTINGENCY): _____

NOTE 5% BID BOND MUST BE SEPARATELY SUBMITTED TO CITY CLERK'S OFFICE IN A SEALED ENVELOPE TITLED ITB NO. 2024-11 BEFORE THE SUBMISSION DEADLINE

BIDDER QUALIFICATION STATEMENT

The Bidder’s response to this questionnaire will be utilized as part of the City’s evaluation to ensure that the Bidder meets, to the satisfaction of the City, the minimum requirements for participating in this Solicitation.

PROPOSER MUST PROVIDE DETAILS FULFILLING THE SOLICITATION’S MINIMUM QUALIFICATIONS. FAILURE TO MEET MINIMUM REQUIREMENTS WILL RESULT IN A DETERMINATION OF NON-RESPONSIVENESS. ADDITIONAL PROJECTS MAY BE ADDED BY COMPLETING ADDITIONAL COPIES OF THIS FORM, AS NEEDED. PLEASE REFER TO SECTION 3.3 OF THE ITB

Project No. 1			
Project Name:			
Project Location:			
Project Description:			
Budget/Cost:		Contract Dates:	
Owner Name:		Reference Name:	
Reference Phone No.:		Reference Email:	
Project No. 2			
Project Name:			
Project Location:			
Project Description:			
Budget/Cost:		Contract Dates:	
Owner Name:		Reference Name:	
Reference Phone No.:		Reference Email:	
Project No. 3			
Project Name:			
Project Location:			
Project Description:			
Budget/Cost:		Contract Dates:	
Owner Name:		Reference Name:	
Reference Phone No.:		Reference Email:	

LIST OF PROPOSED SUBCONTRACTORS

BIDDER shall list all Proposed Subcontractors to be used on this project if they are awarded the contract.

SCOPE

SUBCONTRACTOR NAME, ADDRESS AND LICENSE #

If, prior to Notice of the Award, the City or the Contractor has reasonable objection to and refuses to accept any Subcontractor, Supplier, person or organization listed, the Contractor may, prior to Notice of Award, submit an acceptable substitute without an increase in their bid price.

BIDDER/PROPOSER AFFIDAVITS

Business Name: _____

D.B.A.: _____ Federal I.D. No.: _____

Business Address: _____

City: _____ State: _____ Zip: _____

I, the undersigned affiant do swear and affirm that I am an authorized agent of the above-named business (“Bidder”) and authorized to make the following statements and certifications on Bidder’s behalf:

1. Ownership Disclosure

Pursuant to City Code Section 2-384, the above-named Bidder hereby discloses the following principals, individuals, or companies with five percent (5%) or greater ownership interest in Bidder (supplement as needed):

<i>Name</i>	<i>Address</i>	<i>% Ownership</i>

The above-named Bidder hereby discloses the following subcontractors (supplement as needed):

<i>Name</i>	<i>Address</i>	<i>% Ownership</i>

Bidder hereby recognizes and certifies that no elected official, board member, or employee of the City of Doral ("City") shall have a financial interest in any transactions or any compensation to be paid under or through any transactions between Bidder and City, and further, that no City employee, nor any elected or appointed officer (including City board members) of the City, nor any spouse, parent or child of such employee or elected or appointed officer of the City, may be a partner, officer, director or proprietor of Bidder, and further, that no such City employee or elected or appointed officer, or the spouse, parent or child of any of them, alone or in combination, may have a material interest in the Bidder. Material interest means direct or indirect ownership of more than 5% of the total assets or capital stock of the Bidder.

Any exception to these above-described restrictions must be expressly provided by applicable law or ordinance and be confirmed in writing by City. Further, Bidder recognizes that with respect to any transactions between Bidder and City, if any Bidder violates or is a party to a violation of the ethics ordinances or rules of the City, the provisions of Miami-Dade County Code Section 2-11.1, as applicable to City, or the provisions of Chapter 112, part III, Fla. Stat., the Code of Ethics for Public Officers and Employees, such Bidder may be disqualified from furnishing the goods or services for which the bid or proposal is submitted and may be further disqualified from submitting any future bids or proposals for goods or services to City. The term "Bidder," as used herein, include any person or entity making a proposal herein to City or providing goods or services to City.

2. Public Entity Crimes

1. Bidder is familiar with and understands the provisions of Section 287.133, Florida Statutes
2. Bidder further understands that a person or affiliate who has been placed on the convicted Bidder list following a conviction for a public entity crime may not submit a bid, proposal, or reply on a contract to provide any goods or services to a public entity; may not submit a bid, proposal, or reply on a contract with a public entity for the construction or repair of a public building or public work; may not submit bids, proposals, or replies on leases of real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity in excess of the threshold amount provided in s. 287.017 for CATEGORY TWO for a period of 36 months following the date of being placed on the convicted Bidder list.
3. Based on information and belief, the statement which I have marked below is true in relation to the entity submitting this sworn statement. (**INDICATE WHICH STATEMENT APPLIES.**)
 - _____ Neither the entity submitting this sworn statement, nor any of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, nor any affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.
 - _____ The entity submitting this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.
 - _____ The entity submitting this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989. However, there has been a subsequent proceeding before a Hearing Officer of the State of Florida, Division of Administrative Hearings and the Final Order entered by the Hearing Officer of the State of Florida, Division of Administrative Hearings and the Final Order entered by the Hearing Officer determined that it was not in the public interest to place the entity submitting this sworn statement on the convicted Bidder list. (Attach a copy of the final order.)

3. Compliance With Foreign Entity Laws

Applicant certifies as follows:

- a. Bidder is not owned by the government of a foreign country of concern, as defined in Section 287.138, Florida Statutes.
- b. The government of a foreign country of concern does not have a controlling interest in Bidder, as defined in Section 287.138, Florida Statutes.
- c. Bidder is not organized under the laws of a foreign country of concern, as defined in Section 287.138, Florida Statutes.
- d. Bidder does not have a principal place of business in a foreign country of concern, as defined in Section 287.138, Florida Statutes.
- e. Bidder is not on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in Iran Terrorism Sectors List, created pursuant to s. 215.473.
- f. Bidder is not engaged in business operations in Cuba or Syria.
- g. Bidder is not participating in a boycott of Israel, and is not on the Scrutinized Companies that Boycott Israel list in accordance with the requirements of Sections 287.135 and F.S. 215.473, Florida Statutes

4. Disability, Nondiscrimination, and Equal Employment Opportunity

Applicant certifies that Bidder is in compliance with and agrees to continue to comply with, and ensure that any subcontractor, or third party contractor under any and all contracts with the City of Doral complies with all applicable requirements of the laws listed below including, but not limited to, those provisions pertaining to employment, provision of programs and services, transportation, communications, access to facilities, renovations, and new construction.

- The American with Disabilities Act of 1990 (ADA), Pub. L. 101-336, 104 Stat 327, 42 USC 1210112213 and 47 USC Sections 225 and 661 including Title I, Employment; Title II, Public Services; Title III, Public Accommodations and Services Operated by Private entities; Title IV, Telecommunications; and Title V, Miscellaneous Provisions.
- The Florida Americans with Disabilities Accessibility Implementation Act of 1993, Section 553.501 553.513, Florida Statutes.
- The Rehabilitation Act of 1973, 229 USC Section 794.
- The Federal Transit Act, as amended 49 USC Section 1612.
- The Fair Housing Act as amended 42 USC Section 3601-3631

5. Conformance with OSHA Standards

Applicant certifies and agrees that Applicant has the sole responsibility for compliance with all the requirements of the Federal Occupational Safety and Health Act of 1970, and all State and local safety and health regulations, and in the event the City engages Bidder, Bidder agrees to indemnify and hold harmless the City of Doral, against any and all liability, claims, damages losses and expenses the City may incur due to the failure of itself or any of its subcontractors to comply with such act or regulation in the performance of the contract.

6. E-Verify Program Affidavit

Affiant certifies the following:

- a. Affiant is familiar with and understands the provisions of Section 448.095, Florida Statutes and 48 CFR 52.222-54 and has sufficient knowledge of the personnel practices of the Bidder to execute this Declaration on behalf of the Bidder.
- b. Bidder has registered with and utilizes the federal work authorization program commonly known as E-Verify or any subsequent replacement program, in accordance with the applicable provisions and deadlines established in F.S. 448.095, which prohibits the employment, contracting or sub-contracting with an unauthorized alien.
- c. Bidder does not knowingly employ Affiants or retain in its employ a person whose immigration status makes them ineligible to work for the Bidder.
- d. Bidder has verified that any subcontractors utilized to deliver goods or services to the City through the Contractor's contract with the City use the E-Verify system and do not knowingly employ persons whose immigration status makes them ineligible to work for the subcontractor. The undersigned further confirms that it has obtained all necessary affidavits from its subcontractors, if applicable, in compliance with F.S. 448.095, and that such affidavits shall be provided to the City upon request.
- e. Failure to comply with the requirements of F.S. 448.095 may result in termination of the Bidder's contract(s) with the City of Doral.

7. No Contingency Affidavit

Affiant certifies the following:

- a. Neither Bidder nor any principal, employee, agent, representative or family member has promised to pay, and Bidder has not and will not pay, a fee the amount of which is contingent upon the City of Doral awarding a contract.

- b. Bidder warrants that neither it, nor any principal, employee, agent, or representative has procured, or attempted to procure, a contract with the City of Doral in violation of any of the provisions of the Miami- Dade County conflict of interest and code of ethics ordinances.
- c. Bidder acknowledges that a violation of this warranty may result in the termination of any contracts and forfeiture of funds paid, or to be paid, to the Bidder if awarded a contract.

8. Copeland Anti-Kickback Affidavit

Affiant certifies that no portion of any sums will be paid to any employees of the City of Doral, its elected officials, or its consultants, as a commission, kickback, reward or gift, directly or indirectly by Bidder or any member of Bidder's firm or by any officer of the corporation in exchange for business with the City of Doral.

9. Non-Collusion Affidavit

I, the undersigned affiant, swear or affirm that:

- a. Affiant is fully informed respecting the preparation and contents of the attached Bid/Proposal by Contractor and of all pertinent circumstances respecting such Bid/Proposal.
- b. Such Bid/Proposal is genuine and is not a collusive or sham Bid/Proposal.
- c. Neither the said Contractor nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including Affiant, have in any way colluded, conspired, connived or agreed, directly or indirectly, with any other firm or person to submit a collusive or sham Bid/Proposal in connection with the Work for which the attached Bid/Proposal has been submitted; or to refrain from bidding in connection with such Work; or have in any manner, directly or indirectly, sought by agreement or collusion, or communication, or conference with any firm or person to fix any overhead, profit, or cost elements of the Bid/Proposal or of any other person submitting a response to the solicitation, or to fix any overhead, profit, or cost elements of the quoted price(s) or the quoted price(s) of any other bidding/proposing person, or to secure through any collusion, conspiracy, connivance, or unlawful agreement any advantage against the City or any person interested in the proposed Work.
- d. The price(s) quoted in the attached Bid/Proposal are fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the Contractor or any other of its agents, representatives, owners, employees or parties in interest, including this Affiant.

10. Drug Free Workplace Program

Bidder, in accordance with Florida statute 287.087 hereby certifies that the Bidder does all of the following:

- a. Publishes a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
- b. Informs Employees about the dangers of drug abuse in the workplace, the business' policy of maintaining drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
- c. Gives each employee engaged in providing the commodities or contractual services that are under bid a copy of the statement specified in subsection (a).
- d. In the statement specified in subsection (a), notifies the employees that, as a conditions of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.
- e. Imposes a sanction on, or require the satisfactory participation in, a drug abuse assistance or rehabilitation program if such is available in the employee's community, by any employee who is so convicted.

f. Makes a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

Select here if Not Applicable

11. Cone of Silence Certification

Affiant certifies and that Affiant has read and understands the Cone of Silence” requirements set forth in this Solicitation and further certify that neither I, nor any agent or representative of the Company has violated this provision.

BIDDER AFFIRMATION

I, the undersigned affiant, being first duly sworn as an authorized agent of the below-named Bidder, does hereby affirm and attest under penalty of perjury as the proposed Bidder for City of Doral that the certifications and statements provided above on behalf of Bidder are true to the best of affiant’s knowledge and belief and that Bidder is compliant with all requirements outlined in these City of Doral Affidavits. Bidder acknowledges it is required to comply with and keep current all statements sworn to in the above affidavits and will notify the City of Doral immediately if any of the statements attested hereto are no longer valid.

Bidder Name

Date Signed

Affiant Signature

Affiant Name & Title (Printed)

STATE OF _____
COUNTY OF _____

The foregoing instrument was affirmed, subscribed, and sworn to before me this _____ day of _____, 20__ by means of physical presence or online notarization, by _____ who is personally known to me or who produced the following identification: _____.

[Notary Seal]

Notary Public for the State of _____
My commission expires: _____

CONFLICT OF INTEREST DISCLOSURE

Business Name: _____

D.B.A.: _____ Federal I.D. No.: _____

Business Address: _____

City: _____ State: _____ Zip: _____

Please note that all business entities interested in or conducting business with the City are subject to comply with the City of Doral’s conflict of interest policies as stated within the certification section below. If a vendor has a relationship with a City of Doral official or employee, an immediate family member of a City of Doral official or employee, the vendor shall disclose the information required below.

1. No City official or employee or City employee’s immediate family member has an ownership interest in vendor’s company or is deriving personal financial gain from this contract.
2. No retired or separated City official or employee who has been retired or separated from the City for less than one (1) year has an ownership interest in vendor’s Company.
3. No City employee is contemporaneously employed or prospectively to be employed with the vendor.
4. Vendor hereby declares it has not and will not provide gifts or hospitality of any dollar value or any other gratuities to any City employee or elected official to obtain or maintain a contract.

Conflict of Interest Disclosure*	
Name of City of Doral employees, elected officials, or immediate family members with whom there may be a potential conflict of interest: _____ _____ _____	<input type="checkbox"/> Relationship to employee <input type="checkbox"/> Interest in vendor’s company <input type="checkbox"/> Other (please describe below) _____ _____ <input type="checkbox"/> No Conflict of Interest

**Disclosing a potential conflict of interest does not automatically disqualify vendors. In the event vendors do not disclose potential conflicts of interest and they are detected by the City, vendor will be exempt from doing business with the City.*

I certify that this Conflict-of-Interest Disclosure has been examined by me and that its contents are true and correct to my knowledge and belief and I have the authority to so certify on behalf of the Vendor by my signature below:

Signature of Authorized Representative	Date	Printed Name of Authorized Representative

CERTIFICATE OF AUTHORITY

(IF CORPORATION OR LLC)

I HEREBY CERTIFY that at a meeting of the Board of Directors of _____, a corporation organized and existing under the laws of the State of _____, held on the ___ day of _____, a resolution was duly passed and adopted authorizing _____ (Name) as _____ (Title) of the corporation/company to execute agreements on behalf of the corporation/company and providing that their execution thereof, attested by the secretary of the corporation/company, shall be the official act and deed of the corporation/company. I further certify that said resolution remains in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand this ___ day of _____, 20____.

Secretary Signature: _____

Print Name: _____

STATE OF _____

COUNTY OF _____

The foregoing instrument was affirmed, subscribed, and sworn to before me this _____ day of _____, 20____ by means of physical presence or online notarization, by _____ who is personally known to me or who produced the following identification: _____.

[Notary Seal]

Notary Public for the State of _____
My commission expires: _____

CERTIFICATE OF AUTHORITY

(IF PARTNERSHIP)

I HEREBY CERTIFY that at a meeting of the Board of Directors of _____, a partnership organized and existing under the laws of the State of _____, held on the _____ day of _____, _____, a resolution was duly passed and adopted authorizing _____ (Name) as _____ (Title) of the partnership to execute agreements on behalf of the partnership and provides that their execution thereof, attested by a partner, shall be the official act and deed of the partnership. I further certify that said partnership agreement remains in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand this _____, day of _____, 20_____.

Partner Signature: _____

Print Name: _____

STATE OF _____
COUNTY OF _____

The foregoing instrument was affirmed, subscribed, and sworn to before me this _____ day of _____, 20___ by means of physical presence or online notarization, by _____ who is personally known to me or who produced the following identification: _____.

[Notary Seal]

Notary Public for the State of _____
My commission expires: _____

CERTIFICATE OF AUTHORITY

(IF JOINT VENTURE)

Joint ventures must submit a joint venture agreement indicating that the person signing this Agreement is authorized to sign documents on behalf of the joint venture. If there is no joint venture agreement, each member of the joint venture must sign this Agreement and submit the appropriate Certificate of Authority (corporate, partnership, or individual).

TRENCH SAFETY FORM

Bidder acknowledges that the Florida Trench Safety Act, Section 553.60 et seq, Fla. Stat. which became effective October 1, 1990, shall be in effect during the period of construction of the Project. The Bidder by signing and submitting the Bid is, in writing, assuring that it will perform any trench excavation in accordance with applicable trench safety standards. The Bidder further identifies the following separate item of cost of compliance with the applicable trench safety standards as well as the method of compliance:

Method of Compliance

Cost

Total: \$ _____

Bidder acknowledges that this cost is included in the applicable items of the Bid and in the Total Base Bid. Failure to complete the above may result in the bid being declared non-responsive.

The Bidder is, and the CITY and ENGINEER are not, responsible to review or assess Bidder’s safety precautions, programs of costs, of the means, methods, techniques or technique adequacy, reasonableness of cost, sequences of procedures of any safety precaution, program or cost, including but not limited to, compliance with any and all requirements of Section 553.60 et. seq., Fla. Stat. cited as the “Trench Safety Act”. Bidder is, and the CITY and ENGINEER are not, responsible to determine, if any safety or safety related standards apply to the Project, including but not limited to, the “Trench Safety Act”.

Witness Signature

Bidder’s Signature

Printed Name

Printed Name

Date

Title

Date

CONSTRUCTION CONTRACT

This Contract (the “Contract”) is dated as of the _____ day of _____ 20____ by and between the City of Doral (hereinafter called the “CITY”) and _____ (hereinafter called “CONTRACTOR”) located at: _____ CITY and CONTRACTOR, in consideration of the mutual covenants hereinafter set forth, agree as follows:

ARTICLE 1 – WORK

1.1 Project/Work: CONTRACTOR shall complete all Work as specified or indicated in the Contract Documents, which is hereinafter defined to mean this Contract, Invitation to Bid No. 2024-11 Construction of Doral Entry Features (“ITB”), and the various documents set forth in Article 8 below.

ARTICLE 2 – CITY’S REPRESENTATIVE, ARCHITECT AND ENGINEER

2.1 It is understood that the CITY will designate a representative for the Work. The CITY’S REPRESENTATIVE referred to in any of the Contract Documents designated herein is **Carlos Arroyo, Public Works Director**, at City of Doral Government Center, 8401 NW 53rd Terrace Doral, Florida 33166.

2.2 The CITY’s ENGINEER referred to in any of the Contract Documents is hereby designated to be [_____] or such other individual designated by the City.

ARTICLE 3 – TERM

3.1 Contract Times. Contract Time will commence on the date specified in the Notice to Proceed and shall continue for a period of **one hundred and eighty (180) calendar days**. The Work shall be completed and shall be ready for final payment in accordance with the Contract Documents within one hundred and eighty (180) calendar days after the date specified in the Notice to Proceed (“Final Completion”). No extension of time will be given unless previously provided by Change Order. Liquidated damages will be assessed for each calendar day for which completion of the Work is delayed as set forth in Section 3.4.

3.2 Term. This Contract shall not be effective until it is fully executed between the CITY and the CONTRACTOR. The term of the Contract shall be through the date of final payment unless terminated earlier pursuant to the ITB, or otherwise agreed upon between the parties.

3.3 Survival of Obligations. Any obligations by the CONTRACTOR, including but not limited to those set forth in the ITB, that would or could occur after the date of expiration or termination of the Contract shall survive the termination or expiration of the Contract.

3.4 Liquidated Damages. CITY and CONTRACTOR recognize that time is of the essence in this Contract and that the CITY will suffer financial loss if the Work is not completed within the contract times specified in Section 3.1 for the Work above, plus any approved extensions thereof allowed in accordance with the ITB. The CONTRACTOR also recognizes the delays, expense and difficulties involved in proving the actual loss suffered by CITY if the Work is not completed on time. Accordingly, instead of requiring any such proof, CITY and CONTRACTOR agree that as liquidated damages for delay (but not as a penalty) CONTRACTOR shall pay CITY **\$1,665.00** for each calendar day that expires after the time specified in Section 3.1 for Substantial Completion of the Work. After Final Completion, if CONTRACTOR shall neglect, refuse or fail to complete the

remaining Work within the time specified in Section 3.1 for completion and readiness for final payment or any proper extension thereof granted by CITY, CONTRACTOR shall pay CITY **\$1,665.00** for each calendar day that expires after the time specified in Section 3.1 for completion and readiness for final payment.

3.5 Should the Final Completion and acceptance of Work, together with any modification or additions, be delayed beyond the time for performance set in Section 3.1 above because of lack of performance by the CONTRACTOR, it is understood and agreed that aside from any other liquidated damages, all actual additional costs or losses incurred by the CITY including, but not limited to, completion CONTRACTOR services, financing, professional services, unrealized revenue, will be the responsibility of the CONTRACTOR.

3.6 Monies due to the CITY under Sections 3.4 and 3.5 shall be deducted from any monies due the CONTRACTOR, or if no money is due or the amount due is insufficient to cover the amount charged the CONTRACTOR shall be liable for said amount.

ARTICLE 4 – CONTRACT PRICE

4.1 CITY shall pay CONTRACTOR for completion of the Work in accordance with the Contract Documents an amount in current funds equal to the sum of the amounts determined pursuant to this Article.

4.2 For all Unit Price Work, an amount equal to the sum of the established unit price for each separately identified item of Unit Price Work times the estimated quantity of that item as indicated on the Unit Price Bid Form Section 00410. Estimated quantities are not guaranteed, and determination of actual quantities and classification are to be made by ENGINEER as provided in the Contract Documents.

4.3 The CONTRACTOR agrees that all specific cash allowances are included in the above Contract Price and have been computed in accordance with the Contract Documents.

4.4 A cost breakdown (schedule of values) shall be submitted to the Engineer by the CONTRACTOR for approval by the Engineer within seven days after notification of award of Contract. The schedule of values shall be used as the basis for making progress payments and for determining the cost of extra work where the extra work is an increase in the quantity of work included in the cost breakdown. The cost breakdown shall be complete, with each item of materials, equipment and supplies listed, together with the quantity and price thereof, the sum of which shall be equal to the aggregate sum prices bid for "materials, equipment and supplies". The breakdown shall include a separate column of figures which shall be the cost of installation of the above items, which cost shall include prorated share of bonds, insurance, overhead and profit. The sum of this second column of figures shall be equal to the aggregate sum prices bid for "all other costs incurred in completing the project". Any item(s), as determined by the City to be unbalanced, will not be acceptable.

4.5 The CONTRACTOR shall retain a copy of the cost breakdown in their files for reference purposes.

ARTICLE 5 – PAYMENT PROCEDURES

5.1 CONTRACTOR shall submit Applications for Payment in accordance with the ITB. Applications for Payment will be processed by CITY as provided in the ITB.

5.2 Progress Payments, Retainage. CITY shall make progress payments, deducting the amount from the Contract Price above, on the basis of CONTRACTOR'S Applications for Payment as recommended by the CITY'S REPRESENTATIVE, on or about the last day of each month during construction as provided herein. All such payments will be made in accordance with the schedule of values established in the ITB or, in the event there is no schedule of values, as provided in the ITB.

5.2.1 Commencing with Pay Requisition #2, no progress payment shall be made until CONTRACTOR delivers to the CITY (1) complete original partial releases of all liens and claims signed by all Subcontractors, materialmen, suppliers, and vendors, indicating amount of partial payment, on a City of Doral Release of Lien Form (Exhibit ____), and an affidavit that so far as the CONTRACTOR has knowledge or information, the releases include and cover all Materials and Work for which a lien or claim could be filed for work completed to date, or (2) an executed Consent of Surety, utilizing City of Doral "Consent of Surety for Payment" Form (Exhibit ____). CONTRACTOR shall also provide a partial release of lien as Prime CONTRACTOR utilizing City of Doral Form (Exhibit ____). CONTRACTOR shall also include red-line as-builts and an updated progress schedule.

5.3 The CONTRACTOR agrees that five percent (5%) of the amount due for Work as set forth in each Application for Payment shall be retained by CITY for each Progress Payment until Final Payment, as defined in the ITB.

5.3.1 Prior to Substantial Completion, progress payments will be made in an amount equal to the percentage indicated above, but, in each case, less the aggregate of payments previously made and less such amounts as CITY'S REPRESENTATIVE shall determine, or CITY may withhold, in accordance with the ITB.

5.4 The payment of any Application for Payment by CITY, including the Final Request, does not constitute approval or acceptance by CITY of any item of the Work in such Request for Payment, nor shall it be construed as a waiver of any of CITY's rights hereunder or at law or in equity.

5.5 The Final Application for Payment by CONTRACTOR shall not be made until the CONTRACTOR delivers to the CITY complete original releases of all liens and claims signed by all Subcontractors, materialmen, suppliers, and vendors on a City of Doral Release of lien Form (Exhibit ____), and an affidavit that so far as the CONTRACTOR has knowledge or information, the releases include and cover all Materials and Work for which a lien or claim could be filed. The CONTRACTOR shall also provide a final release of lien as Prime CONTRACTOR utilizing City of Doral Form (Exhibit ____). The CONTRACTOR may, if any Subcontractor, materialmen, supplier or vendor refuses to furnish the required Final Waiver of Lien, furnish a bond satisfactory to CITY to defend and indemnify CITY and any other property Owner, person or entity CITY may be required to indemnify against any lien or claim.

5.6 Final Payment. Upon final completion and acceptance of the Work in accordance with the ITB, CITY shall pay the remainder of the Contract Price and any retainage as recommended by the CITY'S REPRESENTATIVE.

ARTICLE 6 – INSURANCE/INDEMNIFICATION.

6.1 Insurance.

- 6.1.1** The CONTRACTOR shall provide and maintain in force until all the Work to be performed under this Contract has been completed and accepted by City (or for such duration as is otherwise specified hereinafter), the insurance coverage set forth: in Exhibit ____ titled Insurance Requirements.
- 6.1.2** The CONTRACTOR agrees that if any part of the Work under the Contract is sublet, they will require the Subcontractor(s) to carry insurance as required, and that they will require the Subcontractor(s) to furnish to them insurance certificates similar to those required by the CITY.
- 6.1.3** If any insurance should be canceled or changed by the insurance company or should any insurance expire during the period of this contract, the CONTRACTOR shall be responsible for securing other acceptable insurance to provide the coverage specified in this section to maintain coverage during the life of this Contract.
- 6.1.4** All deductibles must be declared by the CONTRACTOR and must be approved by the CITY. At the option of the CITY, either the CONTRACTOR shall eliminate or reduce such deductible, or the CONTRACTOR shall procure a Bond, in a form satisfactory to the CITY, covering the same. The CONTRACTOR is responsible for any and all deductibles, if applicable, following a loss.

6.2 Indemnification. The CONTRACTOR shall indemnify, defend and hold harmless the CITY, their officials, agents, employees, and volunteers as set forth in the Contract Documents.

ARTICLE 7 – CONTRACTOR’S REPRESENTATIONS.

In order to induce CITY to enter into this Contract, CONTRACTOR makes the following representations:

- 7.1** CONTRACTOR has examined and carefully studied the Contract Documents (including the Addenda) and the other related data identified in the Bidding Documents including “technical data.”
- 7.2** CONTRACTOR has visited the site and become familiar with and is satisfied as to the general, local and site conditions that may affect cost, progress, performance or furnishing of the Work.
- 7.3** CONTRACTOR is familiar with and is satisfied as to all federal, state and local Laws and Regulations that may affect cost, progress, performance and furnishing of the Work.
- 7.4** CONTRACTOR has made, or caused to be made, examinations, investigations, tests, or studies as necessary to determine surface and subsurface conditions at or on the site. CONTRACTOR acknowledges that CITY does not assume responsibility for the accuracy or completeness of information and data shown or indicated in the Contract Documents with respect to underground facilities at or contiguous to the site. CONTRACTOR has obtained and carefully studied (or assumes responsibility for having done so) all such additional supplementary examinations, investigations, explorations, tests, studies and data concerning conditions (surface, subsurface and Underground Facilities) at or contiguous to the site or otherwise which may affect

cost, progress, performance or furnishing of the Work or which relate to any aspect of the means, methods, techniques, sequences and procedures of construction to be employed by CONTRACTOR and safety precautions and programs incident thereto. CONTRACTOR does not consider that any additional examinations, investigations, explorations, tests, studies or data are necessary for the performance and furnishing of the Work at the Contract Price, within the Contract Times and in accordance with the other terms and conditions of the Contract Documents.

7.5 The CONTRACTOR is aware of the general nature of Work to be performed by CITY and others at the site that relates to the Work as indicated in the Contract Documents.

7.6 The CONTRACTOR has correlated the information known to CONTRACTOR, information and observations obtained from visits to the site, reports and drawings identified in the Contract Documents and all additional examinations, investigations, explorations, tests, studies and data with the Contract Documents.

7.7 The CONTRACTOR has given the CITY'S REPRESENTATIVE written notice of all conflicts, errors, ambiguities or discrepancies that CONTRACTOR has discovered in the Contract Documents and the written resolution thereof by the CITY'S REPRESENTATIVE is acceptable to CONTRACTOR, and the Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.

7.8 The CONTRACTOR warrants the following:

7.8.1 Anti-Discrimination: The CONTRACTOR agrees that it will not discriminate against any employees or applicants for employment or against persons for any other benefit or service under this Contract because of race, color, religion, sex, national origin, or physical or mental handicap where the handicap does not affect the ability of an individual to perform in a position of employment, and to abide by all federal and state laws regarding non-discrimination.

7.8.2 Anti-Kickback: The CONTRACTOR warrants that no person has been employed or retained to solicit or secure this Contract upon an agreement or understanding for a commission, percentage, brokerage or contingent fee, and that no employee or officer of the CITY or any other applicable federal or state agency, has any interest, financially or otherwise, in the Project. For breach or violation of this warranty, the CITY shall have the right to annul this Contract without liability or, in its discretion, to deduct from the Contract Price or consideration, the full amount of such commission, percentage, brokerage or contingent fee.

7.8.3 Licensing and Permits: The CONTRACTOR warrants that it shall have, prior to commencement of work under this Contract and at all times during said work, all required licenses and permits whether federal, state, County or City.

7.8.4 Public Entity Crime Statement: The CONTRACTOR warrants that it has not been placed on the convicted vendor list following a conviction for public entity crime, as specified in Section 00456, of the Instructions to Bidders.

ARTICLE 8 – CORRELATION, INTERPRETATION, AND INTENT OF CONTRACT DOCUMENTS.

8.1 All Contract Documents shall be interpreted in a manner consistent with each other, provided that if there are differing provisions on the same subject matter, the more stringent requirements shall apply.

8.2 The Contract Documents listed below, which are listed in their order of precedence for the purpose of resolving conflicts, errors and discrepancies, by this reference shall become a part of the Contract as though physically attached as a part thereof:

- 8.2.1** Change Orders.
- 8.2.2** Field Orders.
- 8.2.3** Contract for Construction.
- 8.2.4** Exhibits to this Contract.
- 8.2.5** Any federal, state, county or City permits for the Project
- 8.2.6** Specifications and Drawings provided
- 8.2.7** Bid Documents, including but not limited to: Addendum, Invitation to Bid, Instructions to Bidders, Bid Form provided by CONTRACTOR, Notice of Award and Notice to Proceed.
- 8.2.8** Addenda subject matter takes the same precedence of the respective subject matter that it is modifying. Furthermore, each subsequent addendum takes precedence over previous addenda.
- 8.2.9** The documents listed above shall be incorporated into this Contract (except as expressly noted otherwise above).
- 8.2.10** There are no Contract Documents other than those listed above in this Article. The Contract Documents may only be amended, modified or supplemented as provided in the ITB.
- 8.2.11** The Contract Documents shall remain the property of the CITY. The CONTRACTOR shall have the right to keep one record set of the Contract Documents upon completion of the Project; provided; however, that in no event shall the CONTRACTOR use, or permit to be used, any or all of such Contract Documents on other projects without the City's prior written authorization.
- 8.2.12** The ITB discuss the bond and surety requirements of the CITY. This Contract does , does not require bonds. If the Contract does not require bonds, the references to bonds in the ITB do not apply to this Contract.

ARTICLE 9 – MISCELLANEOUS

9.1 Terms used in this Contract which are defined in the ITB will have the meanings indicated therein.

9.2 Except as otherwise provided in the Contract Documents with respect to Subcontractors, no assignment by a party hereto of any rights under or interests in the Contract Documents will be binding on another party thereto without the written consent of the party sought to be bound; and, specifically but without limitation, moneys that may become due and moneys that are due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and unless specifically stated to the contrary in any written consent to an assignment no assignment will release or discharge the assignor from any duty or responsibility under the Contract Documents.

9.3 CITY and CONTRACTOR each binds itself, its partners, successors, assigns and legal representatives to the other party hereto, its partners, successors, assigns and legal representatives in respect to all covenants, agreements and obligations contained in the Contract Documents.

9.4 Severability. Should any provision, paragraph, sentence, word, or phrase contained in this Contract be determined by a court of competent jurisdiction to be invalid, illegal, or otherwise unenforceable under the laws of the State of Florida, such provision, paragraph, sentence, word, or phrase shall be deemed modified to the extent necessary in order to conform with such laws or shall be deemed severable and this Contract, shall remain unmodified and in full force and effect.

9.5 Remedies. If and when any default of this Contract occurs, the CITY may avail itself of any legal or equitable remedies that may apply, including, but not limited to, actual damages and specific performance. Such remedies may be exercised in the sole discretion of the CITY. Nothing contained in this Contract shall limit the CITY from pursuing any legal or equitable remedies that may apply.

9.6 Access to Public Records. The CONTRACTOR shall comply with the applicable provisions of Chapter 119, Florida Statutes. The CITY shall have the right to immediately terminate this contract for the refusal by the CONTRACTOR to comply with Chapter 119, Florida Statutes. The CONTRACTOR shall retain all records associated with this Contract for a period of five (5) years from the date of Final Payment or Termination of this Contract.

9.7 Inspection and Audit. During the term of this Contract and for five (5) years from the date of Termination, the CONTRACTOR shall allow CITY representatives access during reasonable business hours to CONTRACTOR'S records related to this Contract for the purposes of inspection or audit of such records. If upon an audit of such records, the CITY determines the CONTRACTOR was paid for services not performed, upon receipt of written demand by the CITY, the CONTRACTOR shall remit such payments to the CITY.

9.8 Night work or weekend work may be required for various areas within the project limits. The CONTRACTOR is responsible for costs associated with all night work including but not limited to, inspector costs, police or flagmen costs, signage and MOT costs and all other costs associated with night or weekend work.

All connections to existing piping systems shall be made as shown or indicated on the Drawings after consultation, cooperation, and coordination with the Owner. Some such connections may have to be made during off-peak hours (late night, early morning, or weekend hours). The CONTRACTOR shall give a minimum of 72 hours' notice to the Owner when tie-ins with the existing plant utilities are required.

9.8.1 For weekend work, CONTRACTOR shall submit a written request to the CITY by the preceding Wednesday. A separate request is required for each week that the CONTRACTOR wishes to work on a weekend. For evening and holiday work, CONTRACTOR shall submit a written request to the CITY 3 days in advance. The CITY will provide inspection services for all overtime work requests and the CONTRACTOR shall pay for inspection services, no exceptions.

Similarly, holiday and other overtime work shall be requested a minimum of 36-hours in advance and CITY will provide inspection for all overtime.

9.8.2 Exceptions to the hours and days of the week for work and other related limitations are allowed only for tie-ins during low flow periods / early morning hours, coatings that need to be applied during lower temperature times of the day and whenever the Documents specifically define that work shall be completed outside of the limitations for "normal" work hours, days, etc. Inspection for tie-ins during low flow/early morning and specialty coating application performed during nighttime

will not be cause for extra inspection costs unless such work is remedial in nature as a result of defective work.

9.9 E-VERIFY. Section 448.095, Florida Statutes directs all public employers, including municipal governments, and private employer with 25 or more employees to verify the employment eligibility of all new employees through the U.S. Department of Homeland Security's E-Verify System, and further provides that a public entity may not enter into a contract unless each party to the contract registers with and uses the E-Verify system. Section 448.095, Florida Statutes further provides that if a Contractor enters into a contract with a subcontractor, the subcontractor must provide the Contractor with an affidavit stating that the subcontractor does not employ, contract with, or subcontract with an unauthorized alien. In accordance with Section 448.095, Florida Statutes, CONTRACTOR, if it employs more than 25 employees, is required to verify employee eligibility using the E-Verify system for all existing and new employees hired by CONTRACTOR during the contract term. Further, CONTRACTOR must also require and maintain the statutorily required affidavit of its subcontractors. It is the responsibility of CONTRACTOR to ensure compliance with E-Verify requirements (as applicable). To enroll in E-Verify, employers should visit the E-Verify website (<https://www.e-verify.gov/employers/enrolling-in-e-verify>) and follow the instructions.

9.10 Prohibition Against Contracting with Scrutinized Companies. Pursuant to Florida Statutes Section 217.4725, the City is prohibited from contracting with any entity that is listed on the Scrutinized Companies that Boycott Israel List or that is engaged in the boycott of Israel is prohibited. By entering into this Agreement, CONTRACTOR is certifying that the company is not participating in a boycott of Israel. Any contract for goods or services of One Million Dollars (\$1,000,000) or more shall be terminated at the City's option if it is discovered that the entity submitted false documents of certification, is listed on the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List or has been engaged in business operations in Cuba or Syria after July 1, 2018.

Any contract entered into or renewed after July 1, 2018 shall be terminated at the City's option if the company is listed on the Scrutinized Companies that Boycott Israel List or engaged in the boycott of Israel. By entering into this Agreement, CONTRACTOR is certifying that it does not participate in a boycott of Israel, is not on the scrutinized companies that Boycott Israel list, activities in Sudan List, in the Iran Petroleum Energy Secor list, and has not engaged in business operation is Cuba or Syria. Submitting a false certification shall be deemed a material breach of contract. The City shall provide notice, in writing, to the CONTRACTOR of the City's determination concerning the false certification. The CONTRACTOR shall have ninety (90) days following receipt of the notice to respond in writing and demonstrate that the determination was in error. If the CONTRACTOR does not demonstrate that the City's determination of false certification was made in error, then the City shall have the right to terminate the contract and seek civil remedies pursuant to Florida Statute Section 215.4725.

9.11 Counterparts. This contract may be signed in one or more counterparts, each of which when executed shall be deemed an original and together shall constitute one and the same instrument.

9.12 Notices. Whenever any party is required to give or deliver any notice to any other party, or desires to do so, such notices shall be sent via certified mail or hand delivery to:

FOR CITY:

Barbara Hernandez, City Manager
City of Doral
8401 NW 53rd Terrace
Doral, Florida 33166

WITH COPY TO:

Valerie Vicente, Esq.
Nabors, Giblin & Nickerson, P.A
City Attorney
City of Doral
8401 NW 53rd Terrace
Doral, Florida 33166

FOR CONTRACTOR:

9.13 WAIVER OF JURY TRIAL AND VENUE. The CITY and CONTRACTOR knowingly, irrevocably, voluntarily and intentionally waive any right either may have to a trial by jury in State and or Federal court proceedings in respect to any action, proceeding, lawsuit or counterclaim based upon the Contract, arising out of, under, or in connection with the Work, or any course of conduct, course of dealing, statements or actions or inactions of any party. The venue for any lawsuit arising out of this Contract shall be in Miami-Dade County, Florida.

9.14 Attorneys' Fees. If either the CITY or CONTRACTOR is required to enforce the terms of the Contract by court proceedings or otherwise, whether or not formal legal action is required, the prevailing party shall be entitled to recover from the other party all such costs and expenses, including, but not limited to, court costs, and reasonable attorneys' fees at the trial and appellate level.

9.15 Amendments. This Contract may only be amended by the prior written approval of the parties or by execution of a Change Order in the form attached hereto as Exhibit "_____".

The remainder of the page was intentionally left blank.

IN WITNESS WHEREOF, the parties hereto have made and executed this Contract on the respective dates under each signature: THE CITY OF DORAL, FLORIDA, signing by and through its City Manager, authorized to execute same by Council action on the _____ day of _____ 20____, and _____ by _____ (CONTRACTOR), signing by _____ and through its _____, duly authorized to execute same.

WITNESS
By:
(Signature and Corporate Seal)

(Print Name and Title)

CONTRACTOR
(CONTRACTOR)
(Signature)
(Print Name and Title)

_____ day of _____, 20____.

ATTEST

CITY OF DORAL

Connie Diaz, City Clerk

Rey Valdes, City Manager

APPROVED AS TO FORM AND LEGALITY FOR THE USE AND BENEFIT OF THE CITY OF DORAL ONLY:

Lorenzo Cobiella, Esq. on behalf of
Gastesi, Lopez & Mestre, PLLC, City Attorney

() In the event that the CONTRACTOR is a corporation, there shall be attached to each counterpart a certified copy of a resolution of the board of the corporation, authorizing the officer who signs the contract to do so in its behalf.*



CONSENT OF SURETY FOR PAYMENT

Exhibit B – Construction Contract

City of Doral
Finance Department
8401 NW 53rd Terrace, 3rd Floor
Doral, Florida 33166

Date:
RE: Consent of Surety
Bond No.:
Contract No.:
Estimate No.:

Dear Sir or Madam:

(Surety) hereby consents to the payment of the full amount of moneys due to (Prime Contractor), by the City of Doral for which the necessary duly executed affidavits/ releases of liens have not been provided. This Consent of Surety is executed in lieu of the appropriated Affidavit and Release of Lien from (Subcontractor/ Supplier) which the City's Prime Contractor has not submitted with its Payment Requisition. The Surety executes this Consent for the full amount, encompassing all Work and/ or labor performed, the provision of all materials, equipment and supplies through the day of , 20, except for any applicable retainage.

(Surety) further acknowledges that payment by the City of Doral shall not be construed as a waiver of any of the City's rights under the Payment and Performance Bond; nor a determination by the City as to the merits of any controversy or dispute between the Prime Contractor and a Subcontractor/ Supplier.

Respectfully,

Print Name/ Title

Signature of Attorney-in-Fact

Signed, Sealed and Delivered in the presence of:

State of
County of

On this day of , 20, before me, a Notary Public, in aforesaid County, personally appeared who acknowledge that he/ she executed the above Consent of Surety on behalf of the Corporation or Entity as it's free act and deed.

Signature of Notary

Serial Number

Expiration Date

Print of Stamp of Notary

Notary Seal

MINIMUM INSURANCE REQUIREMENTS

I. Commercial General Liability

A. Limits of Liability	
Bodily Injury & Property Damage Liability	
Each Occurrence	\$2,000,000
Policy Aggregate (Per job or project)	\$4,000,000
Personal & Advertising Injury	\$1,000,000
Products & Completed Operations	\$4,000,000

B. Endorsements Required

City of Doral listed as an additional insured.
 Contingent & Contractual Liability
 Premises and Operations Liability
 Primary Insurance Clause Endorsement
 Explosion, Collapse & Underground Hazard

Waiver of Subrogation in favor of City

II. Business Automobile Liability

A. Limits of Liability	
Bodily Injury and Property Damage	
Combined Single Limit	
Any Auto/Owned Autos or Scheduled Autos	
Including hired and Non-Owned Autos	
Any One Accident	\$1,000,000

B. Endorsements Required

City of Doral listed as an additional insured

III. Workers Compensation

Statutory- State of Florida

Employer’s Liability

A. Limits of Liability
 \$1,000,000 for bodily injury caused by an accident, each accident.
 \$1,000,000 for bodily injury caused by disease, each employee.
 \$1,000,000 for bodily injury caused by disease, policy limit.
 Workers Compensation insurance must be provided for all persons fulfilling this contract, whether employed, contracted, temporary or subcontracted.

V. Umbrella/Excess Liability (Excess Follow Form) can be utilized to provide the required limits. Coverage shall be “following form” and shall not be more restrictive than the

underlying insurance policy coverages, including all special endorsements and City as Additional Insured status.

Subcontractors' Compliance: It is the responsibility of the Contractor to ensure that all Subcontractors comply with all insurance requirements.

All above coverage must remain in force and Certificate of Insurance on file with City without interruption for the duration of this agreement. Policies shall provide the City of Doral with 30 days' written notice of cancellation or material change from the insurer. If the policies do not contain such a provision, it is the responsibility of the Contractor to provide such notice within 10 days of the change or cancellation.

Certificate Holder: City of Doral, Florida
8401 NW 53rd Terrace
Doral, FL 33166

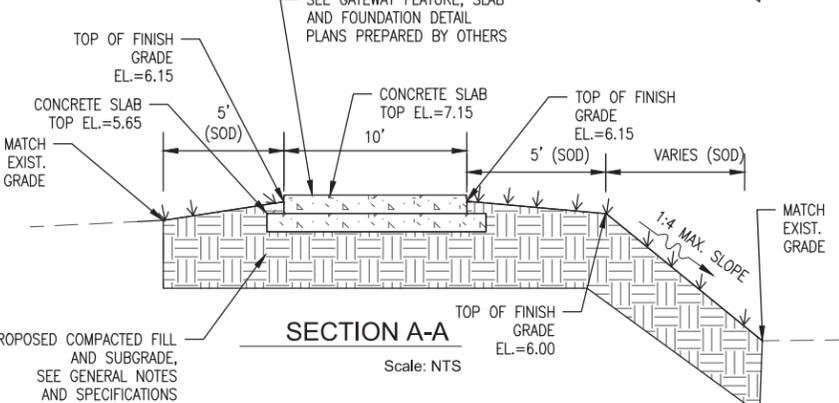
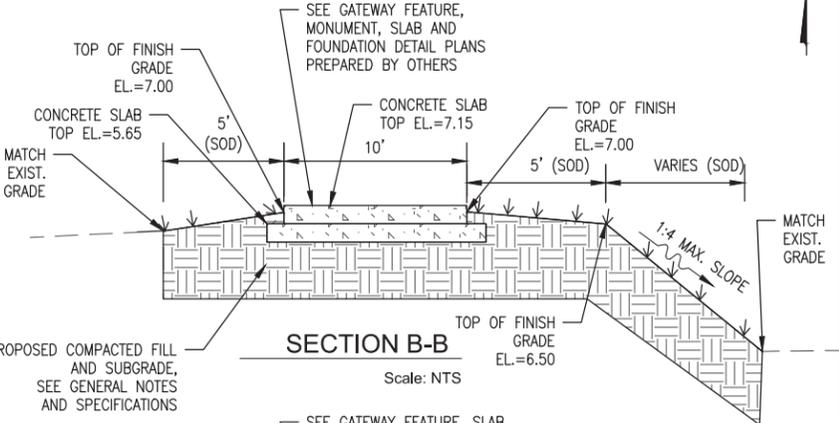
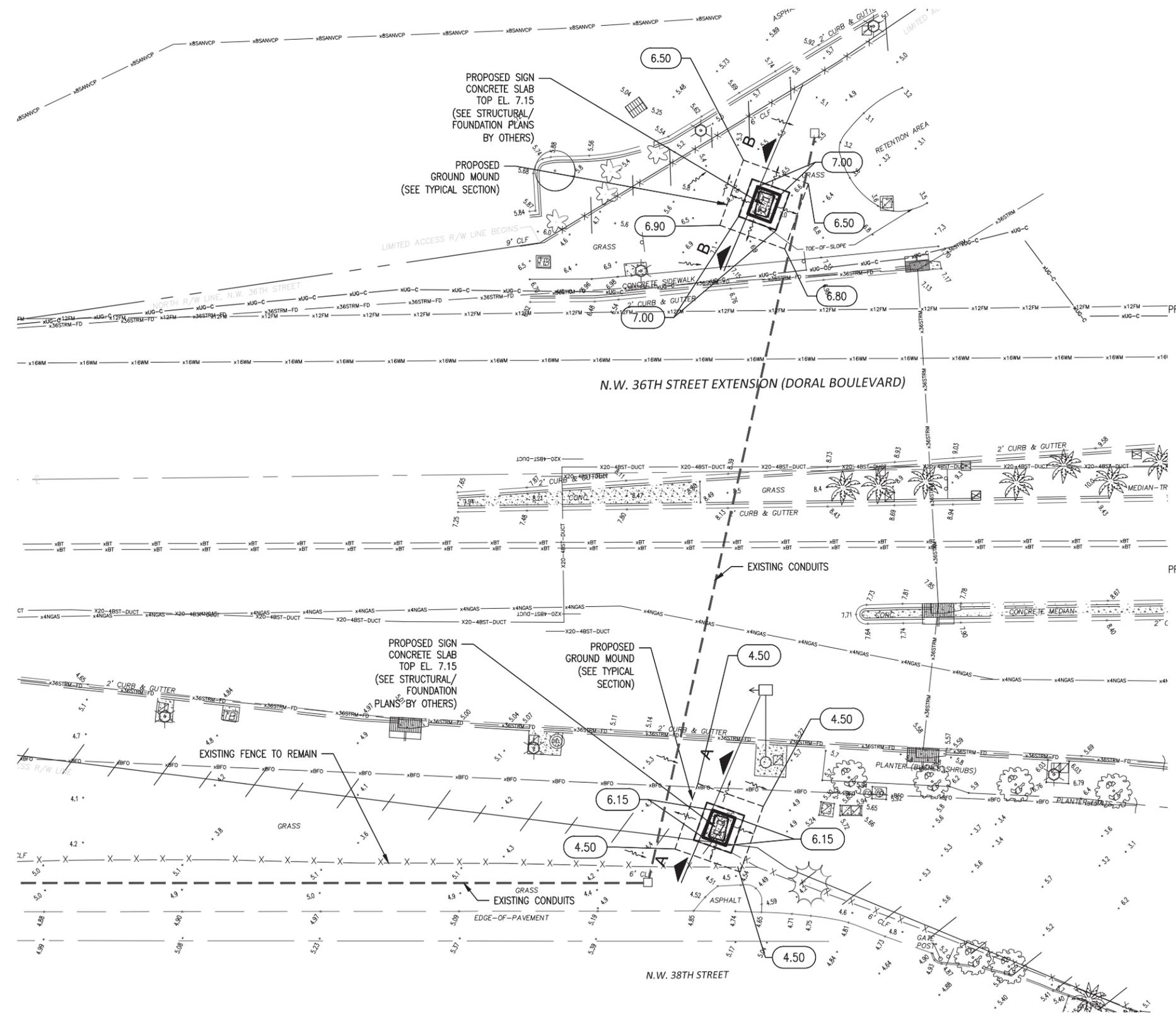
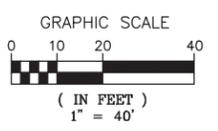
Certificates/Evidence of Property Insurance forms must confirm insurance provisions required herein. Certificates shall include Agreement, Bid/Contract number, dates, and other identifying references.

Insurance Companies must be authorized to do business in the State of Florida and must be rated no less than "A-" as to management, and no less than "Class V" as to financial strength, by the latest edition of AM Best's Insurance Guide, or its equivalent.

Coverage and Certificates of Insurance are subject to review and verification by City of Doral Risk Management. City reserves the right but not the obligation to reject any insurer providing coverage due to poor or deteriorating financial condition. The City reserves the right to amend insurance requirements in order to sufficiently address the scope of services. These insurance requirements shall not limit the liability of the Contractor/Vendor. The City does not represent these types or amounts of insurance to be sufficient or adequate to protect the Contractor/Vendor's interests or liabilities but are merely minimums.

File Name: P:\Projects\2014\147392 Doral Gateway Signs\cadd Files\Drawings\147392.1 PD - PLAN.dwg - (Plotted by: Katharine Kupsky on Thursday, August 12, 2021 5:29:56 PM)

FLOOD LEGEND	
FEMA FIRM PANEL No.	12086C0287L
FLOOD ZONE	X
BASE FLOOD ELEVATION	N/A



LEGEND	
	EXIST. ELEVATION
	PROP. ELEVATION
	FLOW ARROWS
	EXIST. ELECTRICAL CONDUIT
	EXIST. BURIED TELEPHONE CONDUIT(20-4\"/>
	EXIST. BURIED TELEPHONE
	EXIST. OVERHEAD ELECTRIC
	EXIST. SOLID STORM DRAIN PIPE (No. IS SIZE OF PIPE)
	EXIST. STORM FRENCH DRAIN (No. IS SIZE OF PIPE)
	EXIST. RCP STORM DRAIN PIPE (No. IS SIZE OF PIPE)
	EXIST. WATER MAIN (No. IS SIZE OF PIPE)
	EXIST. GAS MAIN (No. IS SIZE OF PIPE)
	EXIST. SANITARY MAIN (No. IS SIZE OF PIPE)
	EXIST. FORCE MAIN (No. IS SIZE OF PIPE)
	EXIST. SIGNAL INTERCONNECT CONDUIT
	EXIST. BURIED FIBER OPTIC
	EXIST. RIGHT-OF WAY
	EXIST. NON-VEHICULAR ACCESS

MOHAMMED SHARFUZZAMAN, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 67640.
 THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY MOHAMMED SHARFUZZAMAN, P.E. ON THE DATE INDICATED HERE.
 PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



Calvin, Giordano & Associates, Inc.
 EXCEPTIONAL SOLUTIONS™
 1800 Eller Drive, Suite 600, Fort Lauderdale, Florida 33316
 Phone: 954.921.7781 • Fax: 954.921.8807

DORAL GATEWAY SIGNS
 DORAL, FLORIDA

SITE GRADING PLAN

DATE: 8/13/2021

SCALE	SHEET:
AS SHOWN	C1
PROJECT No	
147392.1	

NO	DATE	REVISION	BY	NO	DATE	REVISION	BY

APPLICABLE CODES

APPLICABLE CODES:

- ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO MUNICIPALITY STANDARDS AND SPECIFICATIONS AND ALL OTHER LOCAL, STATE AND NATIONAL CODES WHERE APPLICABLE.
- ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER AND IN STRICT COMPLIANCE WITH ALL REQUIREMENTS OF THE FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, THE FLORIDA TRENCH SAFETY ACT OF FLORIDA (90-96) EFFECTIVE OCTOBER 1, 1990, AND ALL OTHER STATE AND LOCAL SAFETY AND HEALTH REGULATIONS.
- ALL ELEVATIONS SHOWN ON THE CONSTRUCTION DRAWINGS ARE BASED ON NATIONAL AMERICAN VERTICAL DATUM OF 1988, (N.A.V.D.), UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL COMPLY WITH THE WATER QUALITY STANDARDS OF THE STATE OF FLORIDA. ADEQUATE SILT CONTAINMENT PROCEDURES AND/OR EQUIPMENT SHALL BE USED TO CONTROL TURBIDITY AT ALL TIMES. THERE SHALL BE NO DIRECT DISCHARGE OF WATER TO ANY OFFSITE DITCH, WATER BODY OR PRESERVATION AREA.
- THE CONTRACTOR SHALL OBSERVE THE SPECIAL, LIMITING, GENERAL AND SPECIFIC CONDITIONS OF ALL PERMITS APPLICABLE TO THIS WORK (COPIES OF WHICH WILL BE PROVIDED BY THE OWNER).

PRECONSTRUCTION RESPONSIBILITIES:

- THE CONTRACTOR SHALL OBTAIN AN SUNSHINE CERTIFICATION NUMBER AT LEAST 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION (WHERE REQUIRED), AND CONTACT THE UTILITY COMPANIES AND THE MUNICIPALITY IN ADVANCE OF WORK.
- EXISTING FACILITIES SHOWN ON THE DRAWINGS ARE DRAWN FROM AVAILABLE RECORDS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE FACILITIES SHOWN OR FOR ANY FACILITY NOT SHOWN. THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES SHOWN SHALL BE FIELD VERIFIED BY THE CONTRACTOR. ANY DISCREPANCY AND/OR VARIATION FROM THE APPROVED PLANS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.
- UPON THE RECEIPT OF THE "NOTICE TO PROCEED", THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD TO ARRANGE A PRE-CONSTRUCTION CONFERENCE TO INCLUDE ALL INVOLVED GOVERNMENTAL AGENCIES, UTILITY OWNERS, THE OWNER, AND THE ENGINEER.

SHOP DRAWINGS:

- THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL FIVE (5) COPIES OF SHOP DRAWINGS AND OTHER SUBMITTALS PRIOR TO SCHEDULING OF THE PRECONSTRUCTION MEETING. THE ENGINEER SHALL APPROVE, DISAPPROVE OR MAKE CORRECTIONS ON THE SHOP DRAWINGS WITH HIS SIGNATURE. THE CONTRACTOR SHALL ONLY USE THOSE DRAWINGS FOR THE WORK THAT BEAR THE ENGINEER'S SIGNED APPROVAL. ANY SHOP DRAWINGS NOT APPROVED BY THE ENGINEER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. IN ADDITION, SOME MUNICIPALITIES REQUIRE THEIR INDIVIDUAL REVIEW AND APPROVAL. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL OTHER AGENCY APPROVALS IF REQUIRED.
- CONTRACTOR SHALL VERIFY THAT MANUFACTURER IS ACCEPTABLE TO THE MUNICIPALITY PRIOR TO SUBMITTING SHOP DRAWINGS TO ENGINEER FOR REVIEW.
- THE CONTRACTOR SHALL MAKE NO DESIGN SUBSTITUTIONS CONTRARY TO THE PLANS AND SPECIFICATIONS WITHOUT THE EXPRESS WRITTEN APPROVAL OF THE ENGINEER. ANY REQUEST FOR MATERIALS SUBSTITUTION SHALL BE APPROVED PRIOR TO DELIVERY OF THESE MATERIALS TO THE JOB SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACTS OF HIS SUBCONTRACTORS AND MATERIAL SUPPLY.

INSPECTIONS:

- THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD, AND ANY OTHER GOVERNMENTAL AGENCY HAVING JURISDICTION, TO SCHEDULE INSPECTIONS AND TESTS A MINIMUM OF 48 HOURS IN ADVANCE FOR THE INSPECTION OF THE GENERAL ITEMS, INCLUDING BUT NOT LIMITED TO, CLEARING, EXCAVATION, EMBANKMENT, SUBGRADE, BASE & PAVING, CONCRETE STRUCTURE, DIRECTIONAL BORE, WHERE APPLICABLE.

TEMPORARY FACILITIES, TRAFFIC REGULATIONS, MAINTENANCE OF TRAFFIC:

- THE CONTRACTOR SHALL BE RESPONSIBLE TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES, AND ELECTRICITY.
- MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH M.U.T.C.D. AND FDOT (REFER TO APPROVED FDOT PERMITS AND CONDITIONS).
- ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ENSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.
- NO TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS SHALL BE LEFT OPEN DURING NIGHTTIME HOURS WITHOUT EXPRESS PERMISSION OF THE MUNICIPALITY AND FDOT.

PROJECT CONSTRUCTION COORDINATION:

- THE CONTRACTOR SHALL COORDINATE HIS ACTIVITIES WITH ANY OTHER CONTRACTOR PERFORMING WORK AT THE PROJECT SITE.
- DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER, AND UPON FINAL CLEAN-UP, THE PROJECT SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE SWEEPED BROOM CLEAN.

PROJECT CLOSEOUT:

- THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED BY THE ENGINEER, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS WORK, EQUIPMENT, OR EMPLOYEES, TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF CONSTRUCTION OPERATIONS. SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION.
- WHERE MATERIAL OR DEBRIS HAS WASHED OR FLOWED INTO OR HAVE BEEN PLACED IN WATER COURSES, DITCHES, DRAINS, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING THE PROGRESS OF THE WORK, AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION.
- ALL PROPERTY MONUMENTS OR PERMANENT REFERENCES REMOVED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED BY A STATE OF FLORIDA REGISTERED LAND SURVEYOR AT THE

CONTRACTOR'S EXPENSE.

- THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF CONSTRUCTION DOCUMENTS ON SITE.
- DURING THE DAILY PROGRESS OF THE JOB, THE CONTRACTOR SHALL RECORD ON HIS SET OF CONSTRUCTION DRAWINGS THE EXACT LOCATION, LENGTH AND ELEVATION OF ANY FACILITY NOT BUILT EXACTLY ACCORDING TO PLANS.
- UPON COMPLETION OF CONSTRUCTION, AND PRIOR TO FINAL PAYMENT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD ONE COMPLETE SET OF ALL "AS-BUILT" CONTRACT DRAWINGS. THESE DRAWINGS SHALL BE MARKED TO SHOW "AS-BUILT" CONSTRUCTION CHANGES AND DIMENSIONS, LOCATIONS AND ELEVATIONS OF ALL IMPROVEMENTS. ALL "AS-BUILT" INFORMATION SHALL BE PREPARED AND CERTIFIED BY A FLORIDA REGISTERED LAND SURVEYOR AT CONTRACTOR'S EXPENSE.
- UPON COMPLETION OF CONSTRUCTION AND PRIOR TO FINAL ACCEPTANCE OF THE WORK, A FINAL INSPECTION SHALL VERIFY PROPER ADHERENCE TO ALL FACETS OF THE PLANS AND SPECIFICATIONS.

PAVING, GRADING, DRAINAGE & UTILITY WORK:

- ALL DISTURBED AREAS SHALL BE SODDED UPON COMPLETION OF GRADING AFTER AS-BUILT GRADE ELEVATIONS ARE APPROVED BY THE ENGINEER. ALL SLOPES AND SWALES SHALL BE SODDED TO AVOID EROSION.
- THE CONTRACTOR SHALL PERFORM CONSTRUCTION IN A MANNER SO AS TO MINIMIZE ANY ADVERSE IMPACTS OF THE WORKS ON FISH, NATURAL ENVIRONMENTAL VALUES, AND WATER QUALITY ON OR OFF-SITE. THE CONTRACTOR SHALL INSTITUTE NECESSARY MEASURES DURING THE CONSTRUCTION PERIOD, INCLUDING FULL COMPACTION OF ANY FILL MATERIAL PLACED AROUND NEWLY INSTALLED STRUCTURES TO REDUCE EROSION, TURBIDITY, NUTRIENT LOADING AND SEDIMENTATION IN THE RECEIVING WATERS.
- ALL REQUIRED AREAS SHALL BE CLEARED AND GRUBBED PRIOR TO CONSTRUCTION ACCORDING TO SECTION 110 OF THE FDOT STANDARD SPECIFICATIONS. THIS SHALL BE CONSISTENT FOR THE COMPLETE REMOVAL AND DISPOSAL OF EXISTING CITY OF DORAL MONUMENT SIGN, TIMBER, BRUSH, STUMPS, ROOTS, RUBBISH, DEBRIS, AND ALL OTHER OBSTRUCTIONS RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE EXISTING GROUND AND THE SURFACE OF EXCAVATED AREAS, AND ALL OTHER STRUCTURES AND OBSTRUCTIONS NECESSARY TO BE REMOVED AND FOR WHICH OTHER ITEMS OF THE CONTRACT DO NOT SPECIFY THE REMOVAL THEREOF. ITEMS DESIGNATED TO REMAIN, TO BE RELOCATED, OR TO BE ADJUSTED SHALL BE SO DESIGNATED ON THE DRAWINGS. PROPERTY OBSTRUCTIONS WHICH ARE TO REMAIN SUCH AS BUILDINGS, SEWERS, DRAINS, WATER OR GAS PIPES, CONDUITS, POLES, BRIDGES, ETC. SHALL BE PROTECTED.
- SITE GRADING FILL SHALL CONSIST OF CLEAN, GRANULAR MATERIALS THAT ARE FREE OF DEBRIS, CINDERS, COMBUSTIBLES, ROOTS, SODS, WOOD, CELLULOSE, ORGANIC MATERIALS, AND MATERIALS SUBJECT TO TERMITE ATTACK. THE ORGANIC CONTENT OF THE FILL SHALL BE LESS THAN 2% (BY WEIGHT). FILL SHALL HAVE LESS THAN 10 PERCENT PASSING THE U.S. STANDARD NO. 200 SIEVE (DRY WEIGHT BASIS) AND HAVE NO PARTICLE SIZE LARGER THAN 3 INCHES UNLESS IT CAN BE DEMONSTRATED THAT SUCH PARTICLES CAN BE BROKEN DOWN TO THE MAXIMUM SPECIFIED SIZE UNDER THE TRAFFIC OF THE EARTHWORK SPREADING COMPACTION EQUIPMENT. THE FILL MATERIAL SHALL HAVE ASTM DESIGNATION (D-2487) OF GP, GW, SP, OR SW, WITH A MAXIMUM PARTICLE SIZE OF NO MORE THAN 3 INCHES. BACKFILL SHALL BE PLACED IN LAYERS NOT TO EXCEED 12 INCHES LOOSE MEASURE. SUFFICIENT COMPACTION EFFORT SHOULD BE APPLIED TO EACH LAYER TO OBTAIN A MINIMUM OF 98% OF THE MAXIMUM DRY DENSITY FOR THE ENTIRE DEPTH OF FILL AS DETERMINED BY AASHTO T-180 (ASTM D-1557). DENSIFICATION MUST BE PERFORMED USING EQUIPMENT THAT WILL SATISFY THE REQUIRED DENSIFICATION WITHOUT THE RISK OF DAMAGE TO THE EXISTING STRUCTURES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CERTIFIED MATERIAL TEST RESULTS TO THE ENGINEER OF RECORD PRIOR TO THE RELEASE OF FINAL CERTIFICATION BY THE ENGINEER. TEST RESULTS MUST INCLUDE, BUT MAY NOT BE LIMITED TO, DENSITIES FOR SUBGRADE AND BASE, DENSITIES AT UTILITY CROSSINGS, AND STRUCTURES. TEST SHALL INCLUDE ASPHALT GRADATION REPORTS, CONCRETE CYLINDERS, ETC. AS APPLICABLE. ALL TESTING COSTS ARE TO BE PAID BY THE CONTRACTOR.
- WHERE NEW ASPHALT MEETS EXISTING ASPHALT, THE EXISTING ASPHALT SHALL BE SAWCUT TO PROVIDE A STRAIGHT EVEN LINE. PRIOR TO REMOVING CURB AND GUTTER, THE ADJACENT ASPHALT SHALL BE SAWCUT TO PROVIDE A STRAIGHT EVEN LINE.
- ALL PROPOSED ELEVATIONS REFER TO FINISH GRADES.
- SITE GRADING ELEVATIONS SHALL BE AT THE REQUIRED ELEVATION.
- ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:

SECTION	TITLE
120	EXCAVATION AND EMBANKMENT (FDOT STANDARD SPECIFICATIONS)
125	EXCAVATION FOR STRUCTURES AND PIPES (FDOT STANDARD SPECIFICATIONS)
555	DIRECTIONAL BORE
948	MISCELLANEOUS TYPES OF PIPE (FDOT STANDARD SPECIFICATIONS)

- ANY CONFLICT WITH EXISTING OR PROPOSED UTILITIES SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND OWNER.
- THE "FOOT PRINTS" OF THE STRUCTURES, PLUS A MINIMUM MARGIN OF 5 FEET, SHOULD BE STRIPPED OF ALL SURFACE VEGETATION, STUMPS, DEBRIS, OR OTHER DELETERIOUS MATERIALS AS ENCOUNTERED TO A MINIMUM DEPTH OF TWELVE INCHES (12"). ADDITIONAL EXCAVATION, EARTHWORK & EMBANKMENT SHALL BE REQUIRED FOR MONUMENT SIGN, MONUMENT FOUNDATION, AND SUBGRADE PREPARATION. ALL COST FOR EXCAVATION, EARTHWORK AND EMBANKMENT SHALL BE INCLUDED IN THE BID. DURING THE GRUBBING OPERATION, ROOTS WITH A DIAMETER GREATER THAN 1/2 INCH, OR SMALL ROOTS IN DENSE STATE, SHOULD BE GRUBBED AND COMPLETELY REMOVED. PROOF-ROLLING THE CLEARED SURFACE IS RECOMMENDED TO LOCATE ANY UNFORESEEN SOFT AREAS OR UNSUITABLE SURFACE OR LOOSE FINE SAND SOILS WITHIN THE TOP 3 TO 4 FEET, AND TO PREPARE THE EXISTING SURFACE FOR THE ADDITION OF THE FILL SOILS (AS REQUIRED). IN ADDITION, THE CONTRACTOR TO PREPARE SITE FOR SIGN STRUCTURE PER STRUCTURAL PLANS AND SPECIFICATIONS, AND GEOTECHNICAL ENGINEER'S RECOMMENDATION..
- CONCRETE SIDEWALKS SHALL BE PORTLAND CEMENT CONCRETE MEETING THE REQUIREMENTS OF FDOT STANDARD SPECIFICATIONS, SECTION 522.CONCRETE CURB AND GUTTER SHALL MEET SECTION 520.
- ALL EXCAVATION AND EMBANKMENT AREAS SHALL BE SHAPED AND GRADED TO THE ELEVATIONS AND CROSS-SECTION SHOWN ON THE DRAWINGS.

FDOT STANDARD NOTES

- THE LOCAL MEDIA SHALL BE CONTACTED A WEEK PRIOR TO ANY LANE CLOSURES ON THE STATE ROAD SYSTEMS AS IT WILL OCCUR DURING PEAK HOURS OR OVER THE SPAN OF MORE THAN ONE DAY. CONTACT TISH BURGHIER, FDOT PUBLIC INFORMATION OFFICE AT 305-470-5277 FOR GUIDANCE ON WHO TO CONTACT. PROVIDE A COPY OF THE PRESS RELEASE TO:

FLORIDA DEPARTMENT OF TRANSPORTATION
PUBLIC INFORMATION OFFICE
1000 NW 11TH AVENUE
MIAMI, FLORIDA 33172
- ALL MATERIALS AND CONSTRUCTION WITHIN FDOT RIGHT-OF-WAY SHALL CONFORM TO THE FDOT STANDARD PLANS FOR ROAD CONSTRUCTION (FY 2021-22 EDITION), STANDARD SPECIFICATIONS (JULY 2021 EDITION) AND THE SUPPLEMENTS THERETO.
- THE ENGINEER RESPONSIBLE FOR CONSTRUCTION INSPECTION SHALL INSURE THAT THE MAINTENANCE OF TRAFFIC PLAN (MOT) FOR THE PROJECT IS IN ACCORDANCE WITH THE APPLICABLE FDOT INDEX NUMBERS (102-600 THRU 102-680 SERIES) AND THESE DOCUMENTS: THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (U.S. DEPARTMENT OF TRANSPORTATION, FHWA).
- AT THE END OF EACH WORK PERIOD, ANY DROP-OFF IN THE AREA ADJACENT TO THE TRAVEL WAY OF THE STATE ROAD SHALL BE BACKFILLED IN ACCORDANCE WITH STANDARD INDEX 102-600 OR SHALL BE OTHERWISE PROTECTED WITH TEMPORARY BARRIER WALL AT THE CONTRACTOR'S EXPENSE.
- IF THE PERMITTED WORK IS ON A ROADWAY THAT HAS BEEN SELECTED AS A HURRICANE OR DISASTER EVACUATION ROUTE, THE CONTRACTOR, AT THE PRE-CONSTRUCTION CONFERENCE IS REQUIRED TO PRESENT, AS PART OF THE WORK PLAN, AN EMERGENCY FUNCTIONAL RESTORATION PLAN TO ADDRESS EVENTUALITIES SUCH AS HURRICANES.
- THE CONTRACTOR MUST CALL THE APPROPRIATE COUNTY TRAFFIC ENGINEERING DIVISION, HAVING JURISDICTION OVER THE PROJECT AT LEAST 48 HOURS, BEFORE ANY EXCAVATION WITHIN THE FDOT RIGHT-OF-WAY TO DETERMINE THE LOCATION OF THE EXISTING TRAFFIC SIGNAL INTERCONNECT CABLE.
- THE LOCATION OF EXISTING UTILITIES SHOWN IS APPROXIMATE ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION DURING CONSTRUCTION. RELOCATION OF UTILITIES SHALL BE COORDINATED WITH UTILITY COMPANIES AFTER IDENTIFICATION OF CONFLICT BY CONTRACTOR. CONTRACTOR WILL NOTIFY ENGINEER IN ADVANCE BEFORE ANY RELOCATION.
- BEFORE PERMIT APPROVAL AND CONSTRUCTION OF THIS PROJECT, THE APPLICANT/CONTRACTOR MUST CONTACT THE FLORIDA DEPARTMENT OF TRANSPORTATION LOCAL MAINTENANCE OFFICE/FDOT DISTRICT 6 CONSTRUCTION DEPARTMENT TO SCHEDULE A PRE-CONSTRUCTION MEETING.
- THE APPLICANT/CONTRACTOR AT THE EARLIEST CONVENIENT TIME SHALL NOTIFY IN WRITING ALL RIGHT-OF-WAY USERS AFFECTED BY THE CONSTRUCTION OF THIS PROJECT.
- ALL MOT LANE CLOSURE SIGNS SHALL BE COVERED WHEN LANES ARE NOT CLOSED. NO LANES ARE TO BE CLOSED EXCEPT AT TIMES PRESCRIBED BY THE DEPARTMENT.
- LIMEROCK BASE SHALL BE A MINIMUM OF 12" AND COMPACTED IN 6" LIFTS TO 98% MAXIMUM DENSITY ACCORDING TO AASHTO-T180. CONSTRUCTION TO CONFORM TO SECTION 200. BASE TO BE PRIMED AFTER COMPACTION.
- STABILIZED SUBGRADE - MINIMUM 12" THICK AND COMPACTED TO 98% MAXIMUM DENSITY ACCORDING TO AASHTO-T180. MATERIAL TO HAVE MINIMUM L.B.R. OF 40 AND CONFORM TO SECTION 160.
- REMOVE ALL MUCK, OVERBURDEN, AND ROOT MATERIAL TO THE RIGHT-OF-WAY LINE, AND BACKFILL TO THE REQUIRED SUBGRADE WITH CLEAN, GRANULAR MATERIAL IN MAXIMUM 6" LIFTS COMPACTED TO 100% OF MAXIMUM DENSITY IN ACCORDANCE WITH AASHTO T99-C SPECIFICATIONS, AND EACH LIFT TESTED BEFORE PLACING NEXT LIFT.
- ALL CURB CUT RAMPS MUST FACE IN THE DIRECTION OF PEDESTRIAN TRAVEL.
- FLAGGERS MUST BE PRESENT DURING THE INGRESS AND EGRESS OF CONSTRUCTION VEHICLES TO AND FROM THE PROJECT SITE. WARNING SIGNS MUST BE ERECTED ADVISING MOTORIST OF TRUCKS ENTERING THE HIGHWAY.

STORMWATER POLLUTION PREVENTION NOTES

- THIS PROJECT WILL DISTURB LESS THAN (1) ACRE. THE CONTRACTOR WILL NOT BE REQUIRED TO HAVE A FORMAL STORMWATER POLLUTION PREVENTION PLAN OR OBTAIN A GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES (CGP) FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP). HOWEVER, THE CONTRACTOR WILL BE REQUIRED TO FOLLOW BEST MANAGEMENT PRACTICES (BMP'S) FOR TEMPORARY EROSION AND SEDIMENTATION CONTROLS AS DICTATED BY THE LOCAL AGENCY HAVING JURISDICTION (AHJ).
- DISTURBANCES INCLUDING ASPHALT CUTTING, DIGGING, CLEARING, GRADING, AND EXCAVATING WILL REQUIRE BMP'S WHICH MAY INCLUDE, BUT ARE NOT LIMITED TO, SILT FENCES, DAMS, TRAPS, BARRIERS, MULCH, HAY BALES AND APPURTENANCES THAT WILL ENSURE SEDIMENTATION POLLUTION WILL BE EITHER ELIMINATED OR MAINTAINED WITHIN ACCEPTABLE LIMITS AS ESTABLISHED BY THE AHJ.
- THE CONTRACTOR WILL BE SUBJECT TO AHJ FINES IF BMP'S ARE NOT IMPLEMENTED AND MAINTAINED.
- THE CONTRACTOR SHALL INSTALL TEMPORARY FLOATING TURBIDITY BARRIER, SILT BARRIER, INLET PROTECTIONS AND OTHER BEST MANAGEMENT PRACTICES AS NEEDED FOR THE PROPOSED CONSTRUCTION ACTIVITIES.
- FURTHER INFORMATION ABOUT BMP'S VISIT:
WWW.DEP.STATE.FL.US/WATER/STORMWATER/NPDES/.
- ALL COSTS FOR STORMWATER POLLUTION PREVENTION SHALL BE INCLUDED IN THE BID.

MOHAMMED SHARIFUZZAMAN, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 67640.

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DORAL GATEWAY SIGNS

DORAL, FLORIDA

GENERAL NOTES AND SPECIFICATIONS

DATE: 8/13/2021

SCALE	AS SHOWN	SHEET:	C2
PROJECT No	147392.1		

GENERAL ELECTRICAL NOTES:

- ALL ELECTRICAL WORK TO BE DONE IN ACCORDANCE WITH THE FBC 2020(7TH EDITION), NEC 2017, NATIONAL FIRE PROTECTION ASSOCIATION, AND SHALL COMPLY WITH ALL LOCAL, STATE & FEDERAL RULES, REGULATIONS AND ORDINANCES.
- MINIMUM WIRE SIZE SHALL BE 12 AWG EXCLUDING CONTROL WIRING UNLESS OTHERWISE NOTED. ALL CONDUCTORS SHALL BE COPPER WITH THHN/THHN OR XHHW STRANDED INSULATION, UNLESS OTHERWISE NOTED.
- OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS. CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
- DISCONNECT SWITCHES SHALL BE 600 VOLT H.P. RATED, HEAVY-DUTY, QUICK MAKE, QUICK-BREAK NEMA 3R ENCLOSURES UNLESS OTHERWISE NOTED. ENGRAVED LAMINATED PLASTIC IDENTIFICATION PLATES SHALL BE FURNISHED AND INSTALLED ON ALL DISCONNECT SWITCHES, CONTACTORS AND STARTERS.
- ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS REQUIRED BY THE CURRENT EDITION OF THE N.E.C.. A SEPARATE GROUNDING CONDUCTOR SHALL BE INSTALLED IN EVERY CONDUIT AND RACEWAY AND SECURELY BONDED IN AN APPROVED GROUNDING TERMINAL AT BOTH ENDS OF THE RUN. THE GROUNDING CONDUCTOR SHALL BE SIZED IN ACCORDANCE WITH ARTICLE 250-122 OF THE N.E.C..
- IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR THE COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL HARDWARE NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
- ALL EXPOSED ELECTRICAL CONDUIT TO BE GALVANIZED RIGID STEEL CONDUIT OR SCHEDULE 80 PVC UNLESS OTHERWISE NOTED. ALL OTHER RACEWAYS TO COMPLY WITH GOVERNING CODES. WHERE RIGID STEEL IS USED, IT SHALL BE COMPLETELY COATED WITH AN ALKALI AND RUST RESISTANT BITUMASTIC PAINT, COPPER NO. 50, AND THREADS SHALL BE COATED WITH ZINC CHROMATE.
- ALL UNDERGROUND ELECTRICAL CONDUITS SHALL BE 1" P.V.C. SCHEDULE 40 MINIMUM SIZE.
- CONTRACTOR IS RESPONSIBLE TO REPAIR OR REPLACE ANY DAMAGED IRRIGATION LINES WHILE TRENCHING OR BORING.
- ALL MATERIALS SHALL BE NEW, U.L. LISTED AND APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) / BUILDING DEPARTMENT.
- THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY THE PROJECT ENGINEER OF RECORD.
- GUARANTEE ALL MATERIALS AND WORK FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM THE DATE OF ACCEPTANCE.
- VERIFY THE LOCATION OF ALL EXISTING AND PROPOSED ELECTRICAL WORK AND REPORT ANY DISCREPANCIES TO THE PROJECT ENGINEER OF RECORD PRIOR TO STARTING WORK.
- CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS, AND TESTINGS.
- ALL CIRCUIT BREAKERS, TWO AND THREE POLE, TO BE THERMAL MAGNETIC, COMMON TRIP. NO TIE HANDLES OR TANDEMS WILL BE ACCEPTED.
- ALL FUSES, UNLESS NOTED OTHERWISE, SHALL BE CURRENT LIMITING, TIME DELAY FUSES RATED FOR 200,000 A.I.C.. ALL FUSES FOR SAFETY SWITCHES SHALL BE DUAL ELEMENT, CARTRIDGE TYPE. FUSES SHALL BE THOSE MANUFACTURED BY EITHER BUSSMAN OR LITTLEFUSE. THE CONTRACTOR SHALL FURNISH TO THE OWNER ONE SPARE FUSE FOR EACH SIZE AND TYPE OF FUSE INSTALLED. FUSES 600 AMPS OR LESS SHALL BE CLASS RK1, TYPICAL UNLESS OTHERWISE NOTED. FUSES OVER 600 AMPS SHALL BE CLASS L.
- PULL BOX: TRAFFIC RATED POLYMER CONCRETE (BODY AND COVER) WITH BOLTED COVER BY QUAZITE, SYNERTECH, BROOKS OR APPROVED EQUAL.
- ALL CONDUCTOR SPLICES SHALL UTILIZE THE SUBMERSIBLE-TYPE, U.L. LISTED CONNECTORS UNLESS OTHERWISE NOTED. COVER LID SHOULD BE PROVIDED LABELED 'ELECTRIC'.
- CONDUCTORS SHALL BE COLOR CODED AS FOLLOWS:

208V SYSTEM	120/240V SYSTEM	480V SYSTEM	PHASE SEQUENCE
NEUTRAL - WHITE	NEUTRAL - WHITE	NEUTRAL - WHITE/STRIPE	ABC, TOP TO BOTTOM
PHASE A - BLACK	PHASE A - BLACK	PHASE A - BROWN	LEFT TO RIGHT, FRONT
PHASE B - RED	PHASE B - RED	PHASE B - PURPLE	TO BACK
PHASE C - BLUE		PHASE C - YELLOW	
GRD.CON - GREEN	GRD.CON - GREEN	GRD.CON - GREEN	
- CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF CONTRACT DRAWINGS AT JOB SITE WITH COLORED MARKINGS INDICATING PROGRESS OF WORK. THIS SET OF CONTRACT DRAWINGS IS TO BE SEPARATE FROM, AND IN ADDITION TO, CONTRACTOR'S CONSTRUCTION SET. EVERY UNIT OF EQUIPMENT, DEVICE, CONDUIT AND WIRE IS TO BE MARKED WHEN INSTALLED. USE GREEN TO INDICATE INSTALLATION AS SHOWN ON DRAWINGS AND USE RED TO INDICATE FIELD CHANGES. UPON COMPLETION OF WORK, THIS SET OF CONTRACT DRAWINGS IS TO BE TURNED OVER TO, AND BECOME PROPERTY OF THE ELECTRICAL ENGINEER.
- IF ELECTRICAL CONTRACTOR HAS QUESTIONS, OR IN THEIR OPINION FINDS OMISSIONS OR ERRORS ON ELECTRICAL DOCUMENTS, IT IS THEIR RESPONSIBILITY TO BRING THIS TO THE ATTENTION OF THE ELECTRICAL ENGINEER IMMEDIATELY PRIOR TO FINAL BID AND INCORPORATE ANY REVISIONS INTO THE FINAL BID. IF ELECTRICAL CONTRACTOR PROCEEDS WITH ANY CHANGES TO THE CONTRACT DOCUMENTS, WITHOUT WRITTEN PRIOR APPROVAL FROM THE ELECTRICAL ENGINEER, CONTRACTOR WILL NOT BE COMPENSATED.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE A FULLY OPERATIONAL ELECTRICAL SYSTEM BASED ON ALL APPLICABLE CODES AS APPLIES TO THE JOB. ELECTRICAL CONTRACTOR SHALL NOT MAKE ANY ASSUMPTIONS DURING BIDDING. ELECTRICAL CONTRACTOR SHALL VISIT THE SITE AND VERIFY EXISTING CONDITIONS. ELECTRICAL CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS, ERRORS AND OMISSION ON DRAWINGS DURING BIDDING AND PRIOR TO FINAL BID. FAILURE TO NOTIFY ANY OF THE ABOVE, THE ELECTRICAL CONTRACTOR ASSUMES FULL RESPONSIBILITY, MONEYS, CHANGES AND CHARGES. NO ADDITIONAL MONEYS WILL BE CONSIDERED AFTER JOB IS AWARDED UNLESS ANY CHANGE COMES FROM THE OWNER. ELECTRICAL CONTRACTOR SHALL OBTAIN A FULL SET OF BIDDING DOCUMENTS FOR PROPER BIDDING AND COORDINATION.

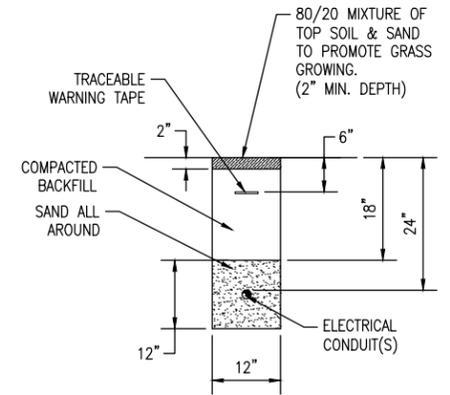
SCOPE OF WORK - ELECTRICAL:

THE FOLLOWING IS A GENERAL DESCRIPTION OF THE SCOPE OF WORK FOR THIS PROJECT. THIS DESCRIPTION IS NOT NECESSARILY INCLUSIVE. REFER TO THESE DRAWINGS FOR MORE SPECIFIC INFORMATION.

- CONTRACTOR TO PROVIDE AND INSTALL NEW ELECTRICAL PANELS AS DETAILED ON ELECTRICAL RACK SHEET E6.
- CONTRACTOR TO PROVIDE AND INSTALL CONDUIT, WIRE, PULL-BOXES, SUPPORT STRUCTURES, AND OTHER EQUIPMENT AS PER THESE ELECTRICAL SHEETS.
- CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, TRENCHING AND HARDWARE NECESSARY TO PROVIDE A COMPLETE AND APPROVED OPERATIONAL ELECTRICAL SYSTEM.
- CONTRACTOR TO PERFORM ELECTRICAL INSTALLATION AND HOOK-UP FOR STRUCTURE, SIGNS AND UPLIGHT SYSTEM.
- CONTRACTOR SHALL CONTACT FLOODLIGHT/UPLIGHT AND FEATURE LED STRIP MANUFACTURE REPRESENTATIVE DURING BID TO FULLY UNDERSTAND ALL REQUIREMENTS AND ASSOCIATED ADDITIONAL COST FOR PROGRAMMING AND EDUCATIONAL CONTROLS TO THE CLIENT. ANY COST TO PROVIDE A FULLY OPERATIONAL SYSTEM FOR THE INTENT SHOWN HEREIN SHALL BE INCLUDED ON THE BID. CONTRACTOR SHALL PROVIDE WIRING DIAGRAMS FOR THE CONTROLS HARDWARE AND CONNECTIONS OF THE FLOODLIGHTS AND LED STRIPS AS PART OF THE SHOP DRAWINGS SUBMITTAL.

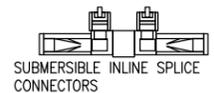
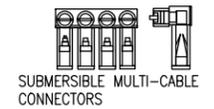
DRAWINGS:

- DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO SITE PLAN AND ELEVATIONS FOR EXACT LOCATION OF ALL EQUIPMENT, VERIFY WITH ENGINEER OF RECORD.
- DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE COMPLETED AND CONSIDERED SUPPLEMENTARY TO ONE AND THE OTHER. MATERIALS OR WORK INDICATED, CALLED FOR OR IMPLIED BY ONE AND NOT THE OTHER, SHALL BE FURNISHED AND INSTALLED AS THOUGH SPECIFICALLY CALLED FOR BY BOTH. SHOULD ANY DISCREPANCY APPEAR IN EITHER, CALL SUCH DISCREPANCY TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION AND CORRECTION BEFORE SUBMITTING BID.
- PROVIDE ALL SHOP DRAWINGS INCLUDING BUT NOT LIMITED TO POWER DISTRIBUTION EQUIPMENT, PROTECTIVE DEVICES, WIRING DEVICES, CONDUITS, AND CONDUCTORS.



ELECTRIC TRENCH DETAIL

Scale: N.T.S.

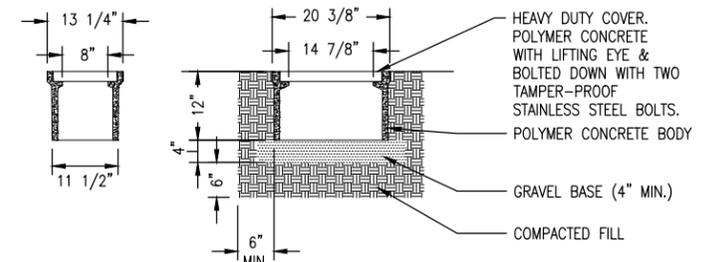


ALL CONNECTORS SHALL BE RATED "SUBMERSIBLE" AND SHALL COMPLY WITH:
 - ANSI C119.1 AND C119.4
 - WESTERN UNDERGROUND GUIDE 2.5

AS MANUFACTURED BY
 - GREAVES (BLACK-BURY)
 - NSI INDUSTRIES (POLARIS BLUE)
 - THOMAS & BETTS (HOMAC)
 OR APPROVED EQUAL

SUBMERSIBLE CONNECTORS

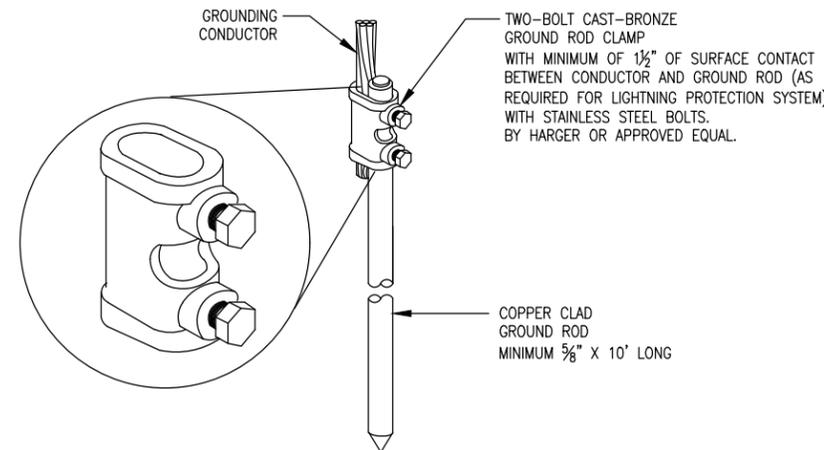
Scale: N.T.S.



MINIMUM SIZE IS SHOWN (11 X 18 X 12)
 USE LARGER SIZE WHERE REQUIRED OR WHERE INDICATED ON PLANS.
 AS MANUFACTURED BY QUAZITE, SYNERTECH, BROOKS, OR APPROVED EQUAL.

PULLBOX DETAIL

Scale: N.T.S.



GROUND ROD CLAMP

Scale: N.T.S.

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DORAL GATEWAY SIGNS
 DORAL, FLORIDA

ELECTRICAL NOTES AND DETAILS

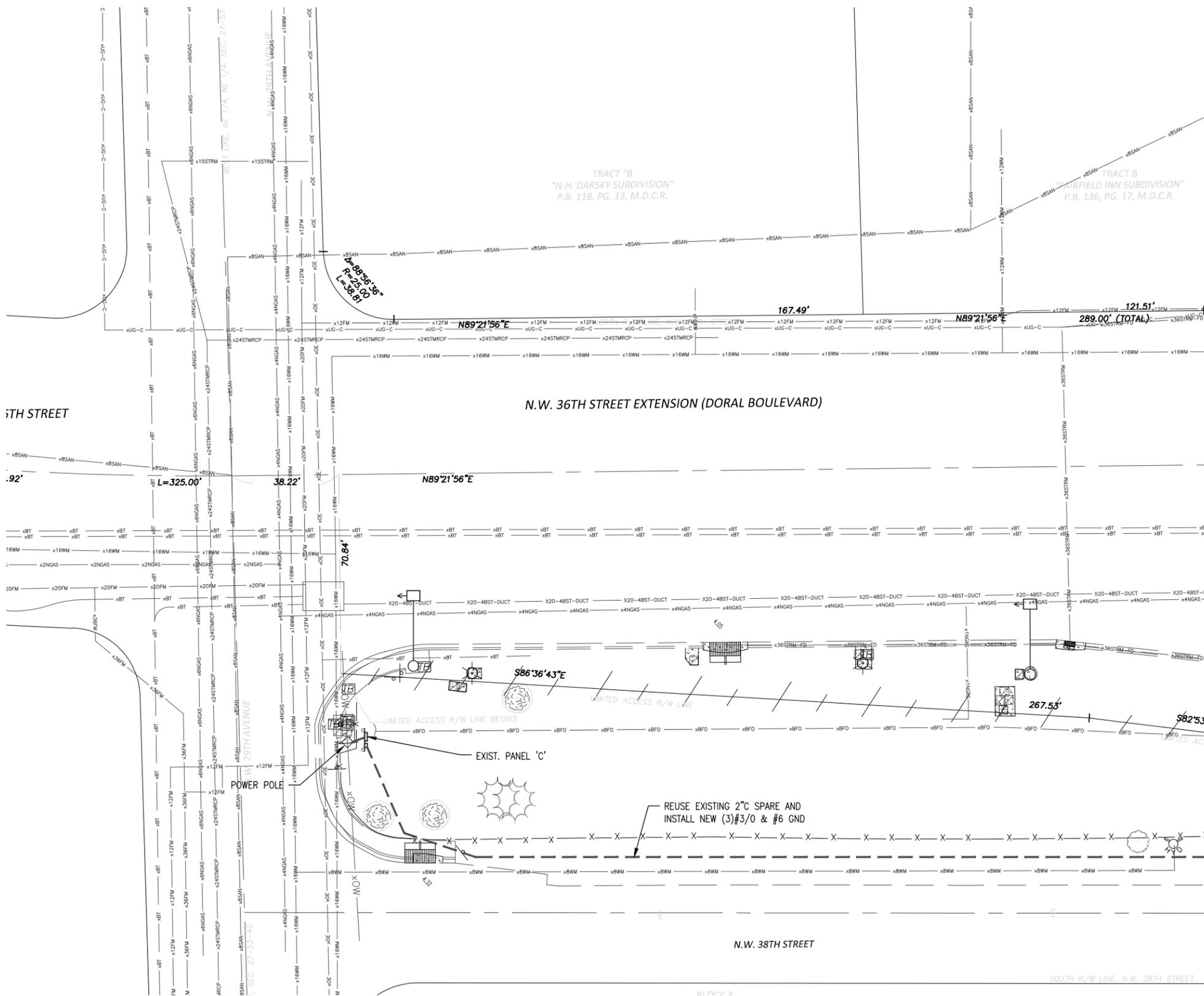
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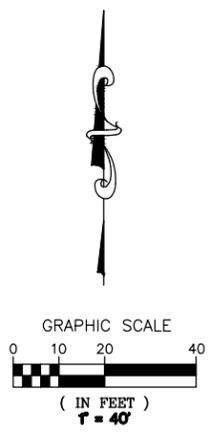


SCALE	SHEET:
AS SHOWN	E1
PROJECT No	
147392.1	

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MATCHLINE A SEE SHEET E3 FOR CONTINUATION



LEGEND

- EXIST. PULL BOX
- PROPOSED FIXTURE
- EXIST. BURIED SPARE CONDUIT
- PROPOSED 2" PVC U.G.
- EXIST. ELECTRICAL RACK
- EXIST. BURIED TELEPHONE CONDUIT(20-4" PVC)
- EXIST. BURIED TELEPHONE
- EXIST. OVERHEAD ELECTRIC
- EXIST. SOLID STORM DRAIN PIPE (No. IS SIZE OF PIPE)
- EXIST. STORM FRENCH DRAIN (No. IS SIZE OF PIPE)
- EXIST. RCP STORM DRAIN PIPE (No. IS SIZE OF PIPE)
- EXIST. WATER MAIN (No. IS SIZE OF PIPE)
- EXIST. GAS MAIN (No. IS SIZE OF PIPE)
- EXIST. SANITARY MAIN (No. IS SIZE OF PIPE)
- EXIST. FORCE MAIN (No. IS SIZE OF PIPE)
- EXIST. SIGNAL INTERCONNECT CONDUIT
- EXIST. BURIED FIBER OPTIC
- EXIST. FENCE

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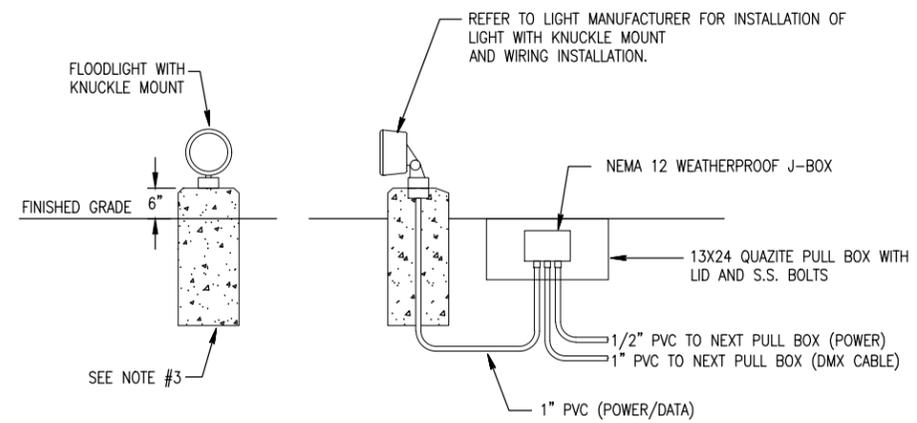
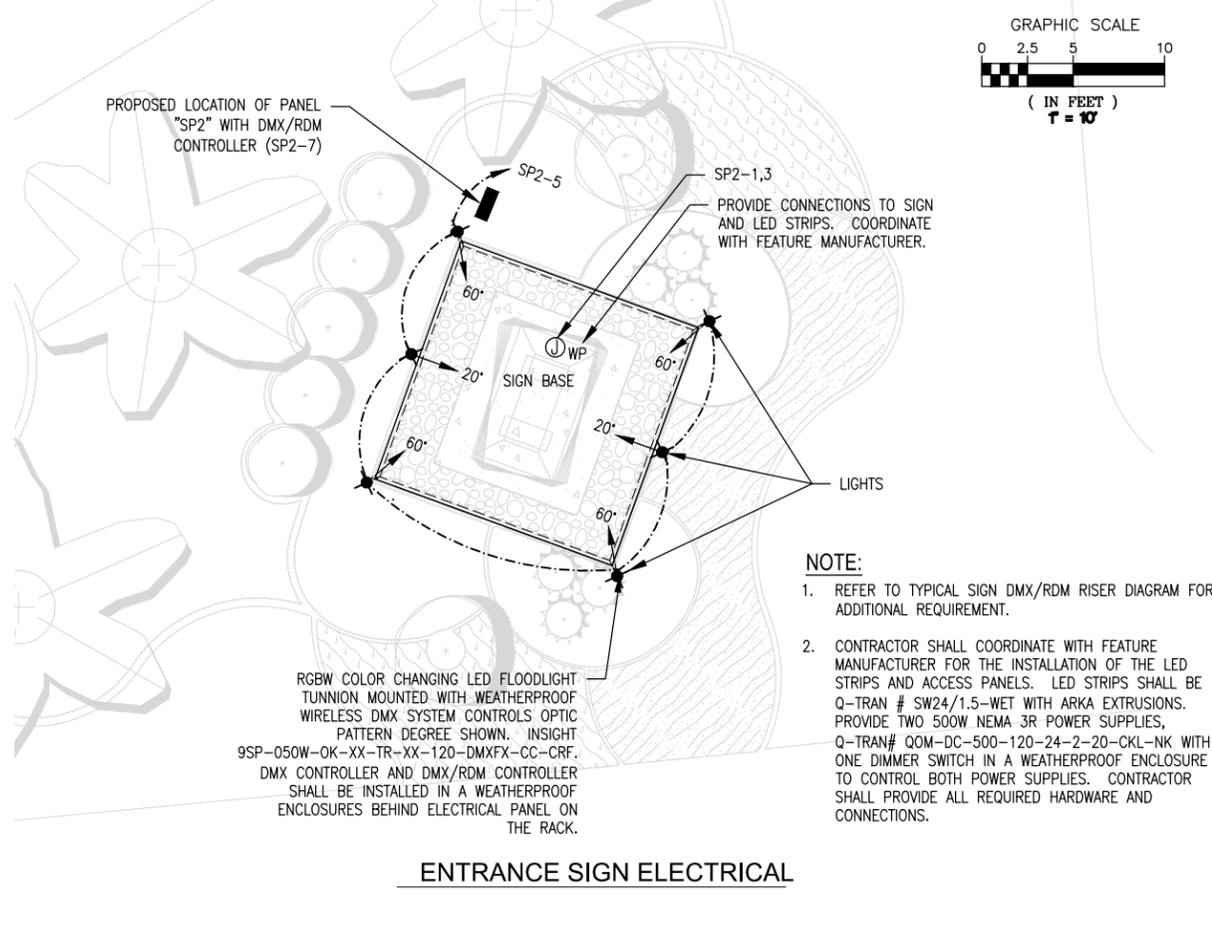
ELECTRICAL PLAN

NO	DATE	REVISION	BY	NO	DATE	REVISION	BY

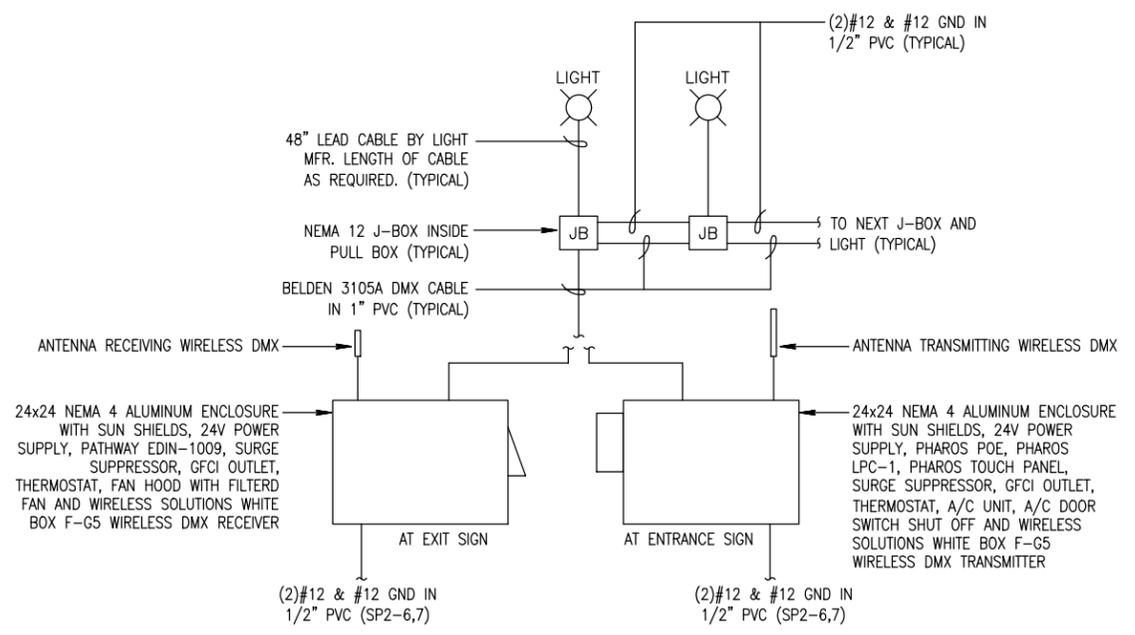
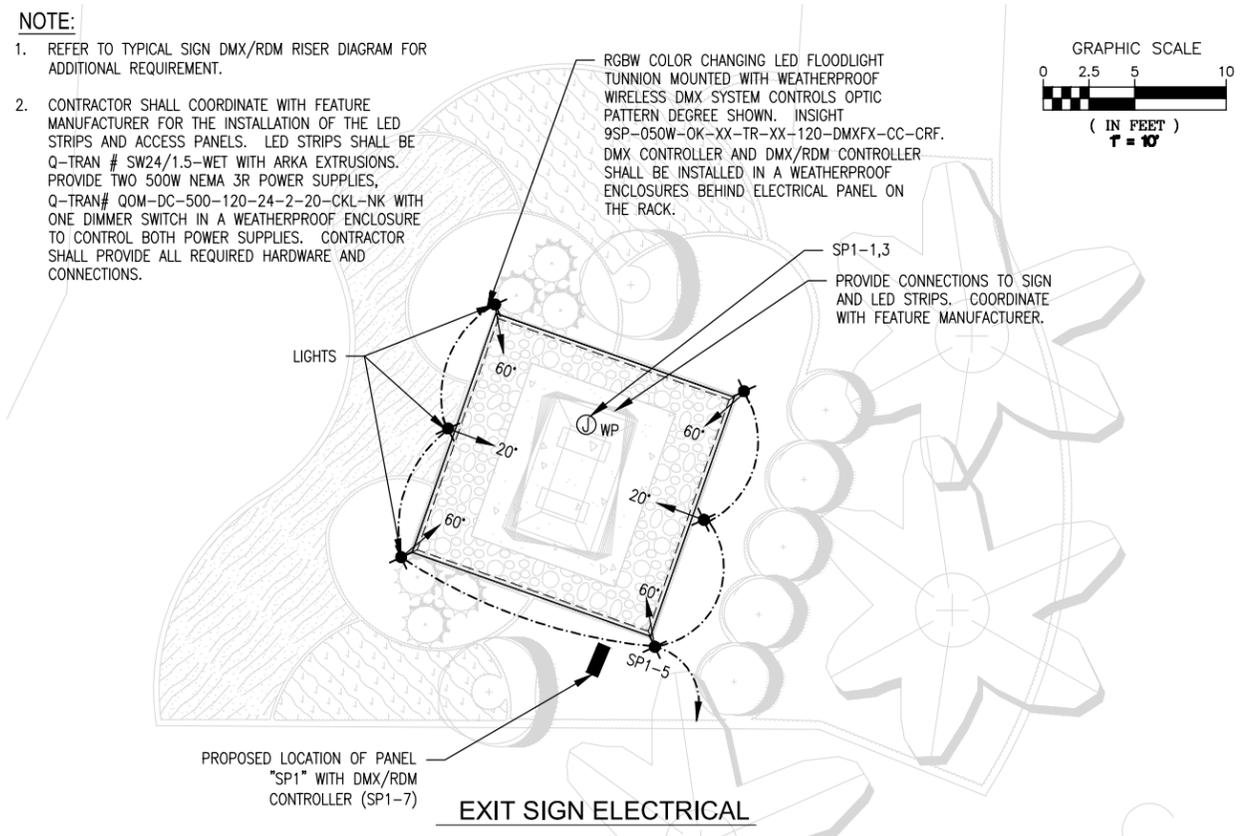
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SCALE	SHEET:
AS SHOWN	E2
PROJECT No 147392.1	

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- DETAIL NOTES:**
- CONTRACTOR SHALL COORDINATE WITH FLOODLIGHT AND DMX MANUFACTURER FOR ALL ELECTRICAL CONNECTIONS, WIRING AND REQUIREMENTS DURING BID.
 - CONTRACTOR SHALL COORDINATE FOOTER ELEVATION WITH SIGNS SLAB. SLAB AND TOP OF LIGHT FOOTER SHALL MATCH. FIELD VERIFY AND ADJUST AS REQUIRED.
 - 12X12X24 PRECAST CONCRETE FOOTER WITH CHAMFER TOP TO AVOID WATER ACCUMULATION BY J-BOX. CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH LIGHT MANUFACTURER PRIOR TO FOOTER DESIGN.



- DETAIL NOTES:**
- CONTRACTOR SHALL COORDINATE WITH FLOODLIGHT AND DMX MANUFACTURER FOR ALL ELECTRICAL CONNECTIONS, WIRING AND REQUIREMENTS DURING BID. INFORMATION SHOWN HEREIN IS FOR REFERENCE ONLY.
 - CONTRACTOR SHALL PROVIDE A FULLY OPERATIONAL SYSTEM AS PER THE INTEND OF THESE DRAWINGS. CONTRACTOR SHALL SUBMIT SYSTEM SHOP DRAWINGS FOR REVIEW AND APPROVAL.
 - CONTRACTOR SHALL ALLOCATE MONIES FOR OWNER TRAINING ON THE OPERATION OF THE RGB/DMX SYSTEM INSTALLED.

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DORAL GATEWAY SIGNS
DORAL, FLORIDA

ELECTRICAL DETAILS

JORGE R. CERVANTES, P.E.
STATE OF FLORIDA PROFESSIONAL ENGINEER
LICENSE NO. 45832
DATE: 8/13/2021

SCALE: AS SHOWN
PROJECT No: 147392.1
SHEET: **E4**

File Name: P:\Projects\2014\147392 Doral Gateway Signs\cadd Files\Drawings\147392.1 E04-PANEL SCHED.dwg - (Plotted by: Katherine Kupsky on Thursday, August 12, 2021 4:58:32 PM)

PANEL NAME: SP1						MAIN BUS: 100 AMP					
TYPE: (4)						NEUTRAL: 100 %					
Ø-TO-N VOLTAGE: 120						1-PHASE, 3-WIRE					
Ø-TO-Ø VOLTAGE: 240						MOUNTING: SURFACE, NEMA 3R SS					
						MAIN BREAKER: 100 AMP					
						A.I.C.: (1) K					
KVA	BREAKER	COND.	WIRE	LOAD	CKT	CKT	LOAD	WIRE	COND.	BREAKER	KVA
(2) 1.50	20-1	3/4"	10	EXIT SIGN	1	2	SURGE PROTECTION	10	1/2"	30-2	
(2) 0.70	20-1	1"	6	EXIT FEATURE	3	4	DEVICE				
(3) 0.30	20-1	1"	6	EXIT UPLIGHTS	5	6	SPACE				
0.18	20-1	1/2"	12	DMX CONTROLS	7	8	SPACE				
0.54	20-1	1/2"	12	EXIT GFCI REC.	9	10	PANEL "SP2"	3	2"	60-2	3.14
				SPACE	11	12					0.88
PANEL LOAD(KVA): 7.24 KVA						A-PHASE TOTAL CONNECTED LOAD: 45.67 AMPS					
PANEL LOAD(AMP): 30.17 AMPS						B-PHASE TOTAL CONNECTED LOAD: 14.67 AMPS					

- (1) 10K AIC U.L. LISTED SERIES RATED SYSTEM AS PER EXISTING PANEL "C".
- (2) SIGN CONTROLS PROVIDED BY OTHERS. PART OF THE SIGN MANUFACTURE.
- (3) SWITCH VIA PHOTOCCELL.
- (4) MATCH EXISTING PANEL "C" PANEL MANUFACTURER AND BREAKERS FOR A FULL COORDINATED ELECTRICAL SYSTEM.

PANEL NAME: SP2						MAIN BUS: 100 AMP					
TYPE: (4)						NEUTRAL: 100 %					
Ø-TO-N VOLTAGE: 120						1-PHASE, 3-WIRE					
Ø-TO-Ø VOLTAGE: 240						MOUNTING: SURFACE, NEMA 3R SS					
						MAIN BREAKER: 60 AMP					
						A.I.C.: (1) K					
KVA	BREAKER	COND.	WIRE	LOAD	CKT	CKT	LOAD	WIRE	COND.	BREAKER	KVA
(2) 1.50	20-1	3/4"	10	ENTRANCE SIGN	1	2	SURGE PROTECTION	10	1/2"	30-2	
(2) 0.70	20-1	1"	6	ENTRANCE FEATURE	3	4	DEVICE				
(3) 0.30	20-1	1"	6	ENTRANCE UPLIGHTS	5	6	CONTROL PANEL A/C	12	1/2"	20-1	0.80
0.18	20-1	1/2"	12	DMX CONTROLS	7	8	SPACE				
0.54	20-1	1"	6	ENTRANCE GFCI REC.	9	10	SPACE				
				SPACE	11	12	SPACE				
PANEL LOAD(KVA): 4.02 KVA						A-PHASE TOTAL CONNECTED LOAD: 26.17 AMPS					
PANEL LOAD(AMP): 16.75 AMPS						B-PHASE TOTAL CONNECTED LOAD: 7.33 AMPS					

- (1) 10K AIC U.L. LISTED SERIES RATED SYSTEM AS PER EXISTING PANEL "C".
- (2) SIGN CONTROLS PROVIDED BY OTHERS. PART OF THE SIGN MANUFACTURE.
- (3) SWITCH VIA PHOTOCCELL.
- (4) MATCH EXISTING PANEL "C" PANEL MANUFACTURER AND BREAKERS FOR A FULL COORDINATED ELECTRICAL SYSTEM.

From	To	Equip. Voltage	Voltage Ø	Equip. Load (W)	Wire Size (AWG/kcmil)	Wire Circular-Mils	Conduit Size	Length of Run(ft)	Voltage Drop	Voltage Drop %
Panel "C"	Panel "SP1"	240	1	6440.00	3/0	167800	2"	600.00	2.48	1.03
SP1-10,12	Panel "SP2"	240	1	3220.00	3	52620	2"	310.00	4.51	1.88

Notes:
(1) Voltage Drop shown are cumulative as per document wiring shown.

PANEL NAME: C						MAIN BUS: 200 AMP					
TYPE: EXISTING						NEUTRAL: 100 %					
Ø-TO-N VOLTAGE: 120						1-PHASE, 3-WIRE					
Ø-TO-Ø VOLTAGE: 240						MOUNTING: SURFACE					
						MAIN BREAKER: 200 AMP					
						A.I.C.: 10 K					
KVA	BREAKER	COND.	WIRE	LOAD	CKT	CKT	LOAD	WIRE	COND.	BREAKER	KVA
(2) 5.48	100-2	2"	3/0	PANEL "SP1"	1	2	EXIST. CONTROL XFMR	12	1/2"	15-1	0.65
(2) 1.76					3	4	EXIST. IRRIGATION	2	2"	80-2	6.00
(1) 0.24	20-1	2"	6	EXIST. LANDSCAPE LT.	5	6	PUMP (10 HP)				6.00
(1) 0.24	20-1	2"	6	EXIST. LANDSCAPE LT.	7	8	SPACE				
(1) 0.54	20-1	2"	6	EXIST. LANDSCAPE REC.	9	10	SPACE				
	20-1			EXIST. SPARE	11	12	SPACE				
PANEL LOAD(KVA): 20.91 KVA						A-PHASE TOTAL CONNECTED LOAD: 107.57 AMPS					
PANEL LOAD(AMP): 87.12 AMPS						B-PHASE TOTAL CONNECTED LOAD: 66.67 AMPS					

- (1) EXISTING LOAD, WIRE SIZE, CONDUIT AND BREAKER SHOWN FOR CLARIFICATION.
- (2) INSTALL NEW WIRE SIZE SHOWN IN EXISTING 2"C AND CONNECT TO EXISTING BREAKER SHOWN.

SITE - ELECTRICAL NOTES

1. FOR CONDUIT CROSSING UNDER EXIST. PAVEMENT: USE DIRECTIONAL BORING.
2. FOR ALL UNDERGROUND SPLICES USE SUBMERSIBLE-TYPE SPLICE CONNECTORS BY GREAVES (BLACK-BURY), NSI (BLUE-POLARIS), OR APPROVED EQUAL.
3. PROVIDE PULL-STRINGS INSIDE ANY AND ALL VACANT/SPARE CONDUITS AND APPLY DUCT-SEAL AT ALL CONDUIT ENDS.
4. ALL EXISTING UNDERGROUND UTILITY LINES (FPL, WATER, SEWER, AT&T, CATV, ETC.) MUST BE LOCATED PRIOR TO ANY EXCAVATION.
5. STAKE-OUT / MARK ALL PROPOSED FIXTURE LOCATIONS PRIOR TO PLACEMENT AND VERIFY LOCATIONS ARE ACCEPTABLE TO PROJECT MANAGER AND ENGINEER OF RECORD. IF CONTRACTOR FAILS TO COORDINATE THE LOCATIONS AS STATED ABOVE, ANY SUBSEQUENTLY REQUIRED RELOCATION(S) WILL BE AT THE CONTRACTOR'S EXPENSE.
6. ELECTRICAL CIRCUITING PATH IS SCHEMATIC. CONDUIT ROUTING SHALL FOLLOW THE DRAWING AS CLOSELY AS POSSIBLE AND GENERALLY CONFORM TO THE PATHWAY TO AVOID DAMAGE TO EXISTING TREE ROOTS AND UNDERGROUND FACILITIES. IF MAJOR ROOTS OR OTHER CONFLICTS ARE ENCOUNTERED, CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER PRIOR TO TRENCHING.
7. PROVIDE IDENTIFICATION FOR ALL PANELS, CABINETS, ENCLOSURES, DISCONNECTS & TRANSFORMERS USING ENGRAVED NAMEPLATES, WHITE LETTERING ON A BLACK BACKGROUND. NAMEPLATES SHALL IDENTIFY EQUIPMENT DESIGNATION (NAME), VOLTAGE, PHASE & WIRE CONFIGURATION, AND AMPERAGE RATING. PROVIDE TYPEWRITTEN DIRECTORIES UNDER PLASTIC COVER FOR ALL PANEL BRANCH CIRCUITS, CLEARLY INDICATING AREA AND TYPE OF LOAD SERVED BY EACH BRANCH CKT PROTECTIVE DEVICE, INCLUDING SPARES. HAND PRINTED WILL NOT BE ACCEPTED.

VOLTAGE DROP FORMULAS

The NEC® recommends a maximum 3% voltage drop for either the branch circuit or the feeder.

Single-Phase:

$$VD = \frac{2 \times R \times I \times L}{CM}$$

Three-Phase:

$$VD = \frac{1.732 \times R \times I \times L}{CM}$$

VD = Volts (voltage drop of the circuit)

R = 12.9 Ohms/Copper or 21.2 Ohms/Aluminum (resistance constants for a conductor that is 1 circular mil in diameter and 1 foot long at an operating temperature of 75° C.)

I = Amps (load at 100 percent)

L = Feet (length of circuit from load to power supply)

CM = Circular-Mils (conductor wire size)

2 = Single-Phase Constant

1.732 = Three-Phase Constant

CONDUCTOR LENGTH/VOLTAGE DROP

Voltage drop can be reduced by limiting the length of the conductors.

Single-Phase:

$$L = \frac{CM \times VD}{2 \times R \times I}$$

Three-Phase:

$$L = \frac{CM \times VD}{1.732 \times R \times I}$$

CONDUCTOR SIZE/VOLTAGE DROP

Increase the size of the conductor to decrease the voltage drop of circuit (reduce its resistance).

Single-Phase:

$$CM = \frac{2 \times R \times I \times L}{VD}$$

Three-Phase:

$$CM = \frac{1.732 \times R \times I \times L}{VD}$$



NOTE:

IN ACCORDANCE WITH NFPA 70E, PARAGRAPH 130.3.A.1, ARC FLASH HAZARD ANALYSIS WAS NOT PERFORMED. THE ARC FLASH PROTECTION BOUNDARY SHALL BE 4.0 FEET BASED ON CLEARING TIME OF 2 CYCLES (0.033 SEC.) AND THE AVAILABLE FAULT CURRENT 5,943 RMS SYMMETRICAL AMPERES.

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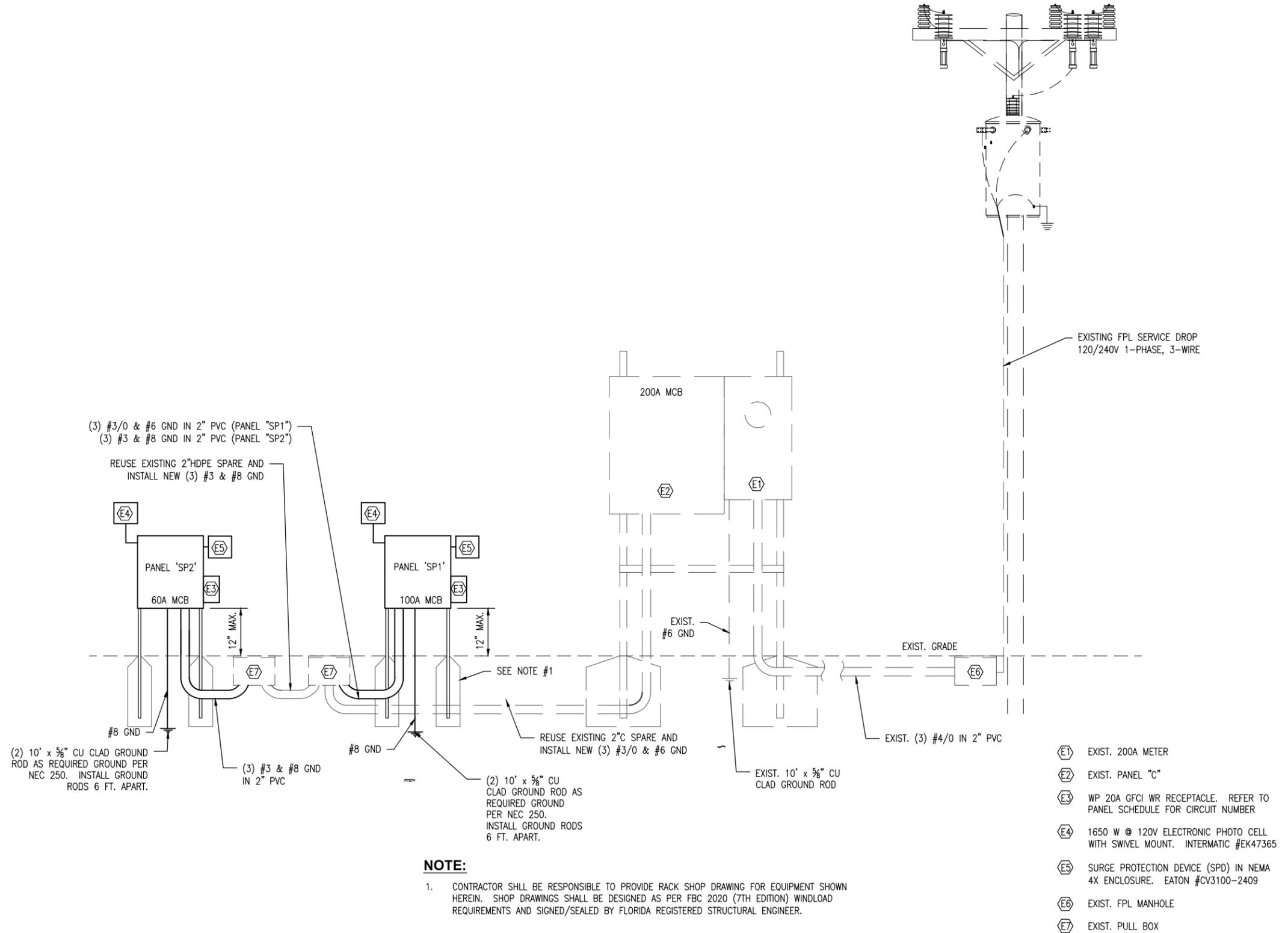
DORAL GATEWAY SIGNS
DORAL, FLORIDA

PANEL SCHEDULE

DATE: 8/13/2021

SCALE AS SHOWN	SHEET: E5
PROJECT No 147392.1	

File Name: P:\Projects\2014\147392 Doral Gateway Signs\cadd Files\Drawings\147392.1 E05-ELEC RACK.dwg - (Plotted by: Katharine Kupsky on Thursday, August 12, 2021 4:58:47 PM)



ELECTRICAL RACK/RISER DIAGRAM

N.T.S.

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DORAL GATEWAY SIGNS
 DORAL, FLORIDA

ELECTRICAL RACK

DATE: 8/13/2021

SCALE	AS SHOWN	SHEET:	E6
PROJECT No	147392.1		

DORAL GATEWAY SIGNS

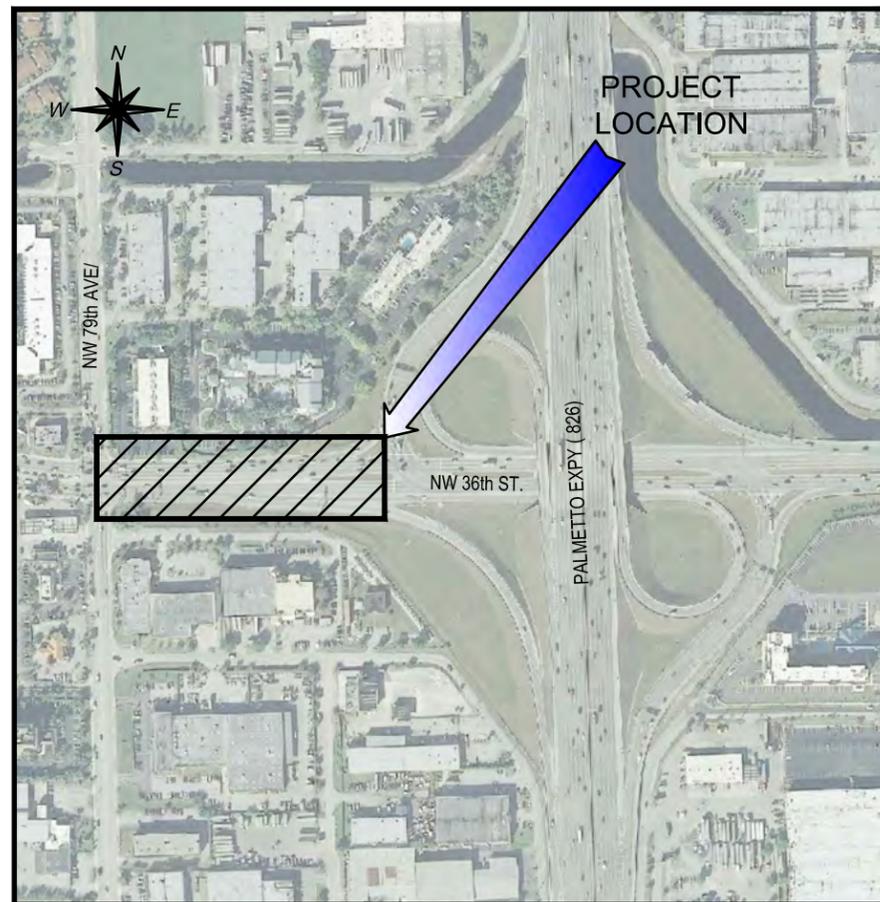
PROJECT No: 147392.1
147392.1 01-COR.dwg

Sheet List Table

Sheet Number	Sheet Title
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G1	COVER SHEET
G2	SIGNATURE SHEET
1 OF 2	TOPOGRAPHIC SURVEY
2 OF 2	TOPOGRAPHIC SURVEY
D1	DEMOLITION PLAN
C1	SITE GRADING PLAN
C2	GENERAL NOTES AND SPECIFICATIONS
L-0	SIGNATURE SHEET
L-1	SITE PLAN
L-2	SIGN LOCATION DETAILS
L-3	DISPOSITION PLAN
L-4	DISPOSITION SCHEDULE
L-5	PLANTING PLAN
L-6	PLANTING SIGN DETAIL
L-7	PLANTING SIGN DETAIL
L-8	PLANTING DETAILS
L-9	PLANTING DETAILS
L-10	PLANTING DETAILS
LI-1	IRRIGATION PLAN (OVERALL)
LI-2	IRRIGATION SIGN DETAIL
LI-3	IRRIGATION SIGN DETAIL
LI-4	IRRIGATION SCHEDULE
LI-5	IRRIGATION NOTES
LI-6	IRRIGATION NOTES
LI-7	IRRIGATION DETAILS
LI-8	IRRIGATION DETAILS
E0	SIGNATURE SHEET
E1	ELECTRICAL NOTES AND DETAILS
E2	ELECTRICAL PLAN
E3	ELECTRICAL PLAN
E4	ELECTRICAL DETAILS
E5	PANEL SCHEDULE
E6	ELECTRICAL RACK
1	GATEWAY FEATURES FABRICATION DETAILS
2	GATEWAY FEATURES FABRICATION DETAILS
3	GATEWAY FEATURES FABRICATION DETAILS
4	GATEWAY FEATURES FABRICATION DETAILS
5	GATEWAY FEATURES FABRICATION DETAILS
6	GATEWAY FEATURES FABRICATION DETAILS
7	GATEWAY FEATURES FABRICATION DETAILS

DORAL, FLORIDA



LOCATION MAP

Scale: 1" = 500'

SEC 27, TWN 53, RNG 40



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CITY OFFICIALS

MAYOR:	JUAN CARLOS BERMUDEZ
VICE MAYOR:	PETE CABRERA
COUNCIL MEMBERS:	DIGNA CABRAL
	CLAUDIA MARIACA
	OSCAR PUIG-CORVE
CITY MANAGER:	HERMAN ORGANVIDEZ

GOVERNING STANDARD PLANS:

- Florida Department of Transportation, FY2021-22 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).
- Standard Plans for Road Construction and associated /Rs are available at the following website: <http://www.fdot.gov/design/standardplans>
- Standard Plans for Bridge Construction are included in the Structures Plans Component.

GOVERNING STANDARD SPECIFICATIONS

Florida Department of Transportation, July 2021 Standard Specifications for Road and Bridge Construction at the following website:

<http://www.fdot.gov/programmanagement/1implemented/SpecBooks>

NOTES:

- RESPONSIBILITY FOR THE USE OF THESE PLANS FOR ANY PURPOSE PRIOR TO SECURING PERMITS FROM ALL AGENCIES HAVING JURISDICTION OVER THIS PROJECT WILL FALL SOLELY UPON THE USER.
- THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION

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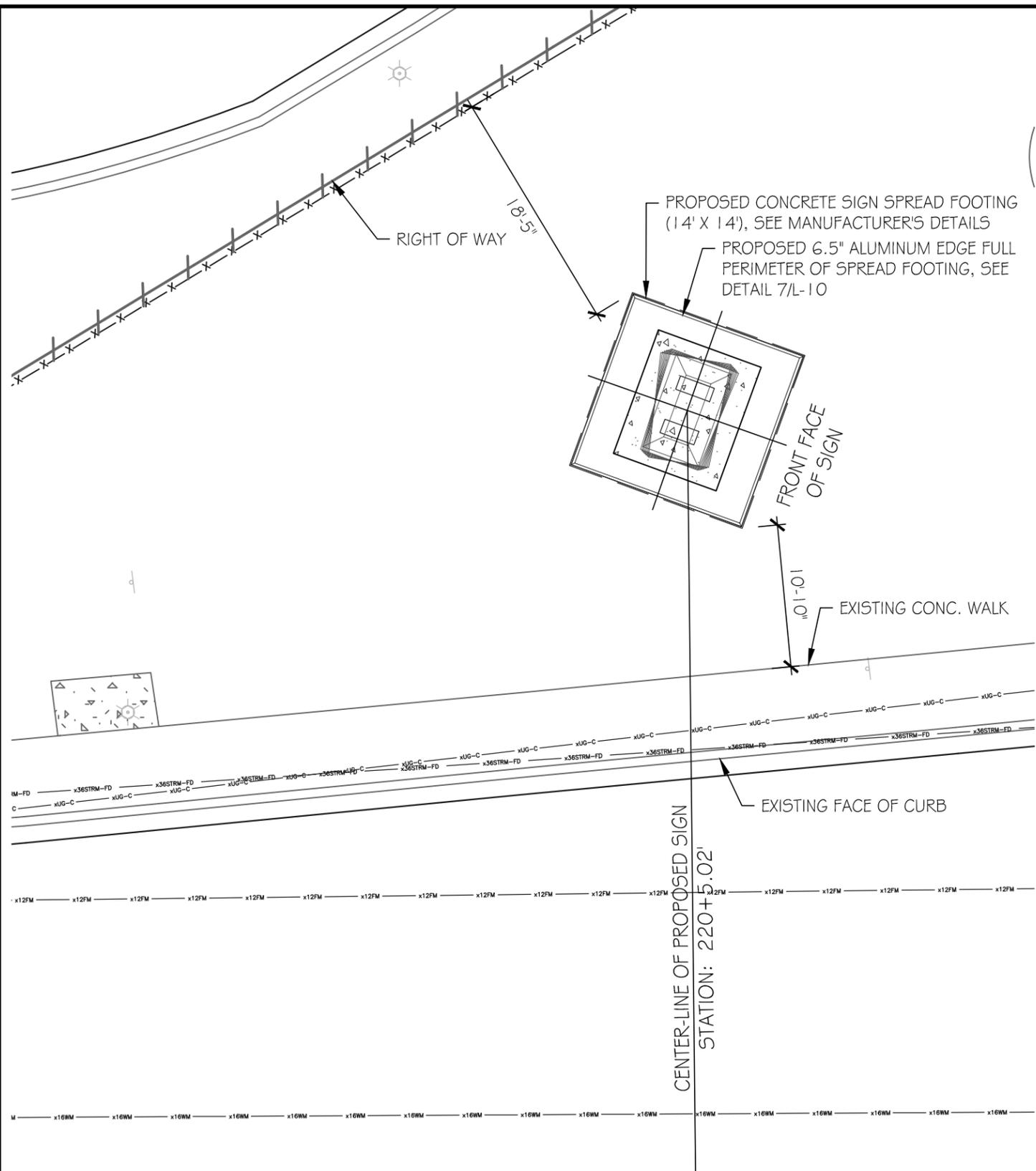
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PERMITTING AGENCIES	DATE SUBMITTED	CGA INITIALS	DATE APPROVED	PERMIT NUMBER
CITY OF DORAL	-	-	-	-
FDOT UTILITY PERMIT	-	-	-	-
	-	-	-	-
	-	-	-	-

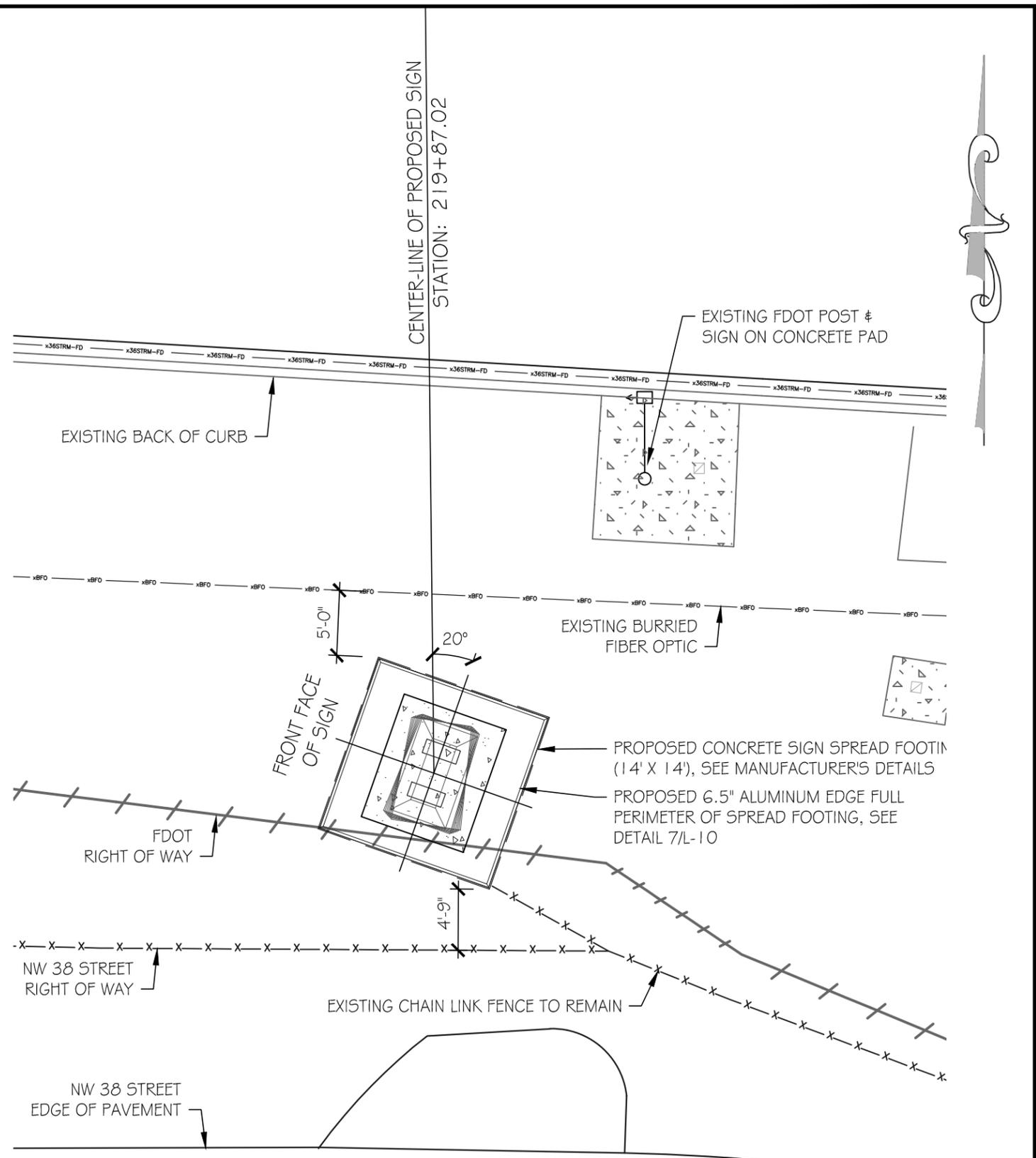
NO	DATE	REVISION	BY	NO	DATE	REVISION	BY

CURRENT REV No.: ---	TAMMY D. COOK, STATE OF FLORIDA REGISTERED LANDSCAPE ARCHITECT, LICENSE NO. 1328. THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY TAMMY D. COOK, R.L.A. ON THE DATE INDICATED HERE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES. DATE: 8/13/2021	SHEET: G1
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File Name: F:\Projects\2014\147392 Doral Gateway_Signs\CADD Files\Drawings\147392.1 SP100-SITEPLAN.dwg - (Plotted by: Marco Mendoza on Friday, August 13, 2021 10:14:50 AM)



2 NORTH SIDE SIGN DETAIL 1" = 10'



3 SOUTH SIDE SIGN DETAIL 1" = 10'

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DORAL GATEWAY SIGNS
 DORAL, FLORIDA

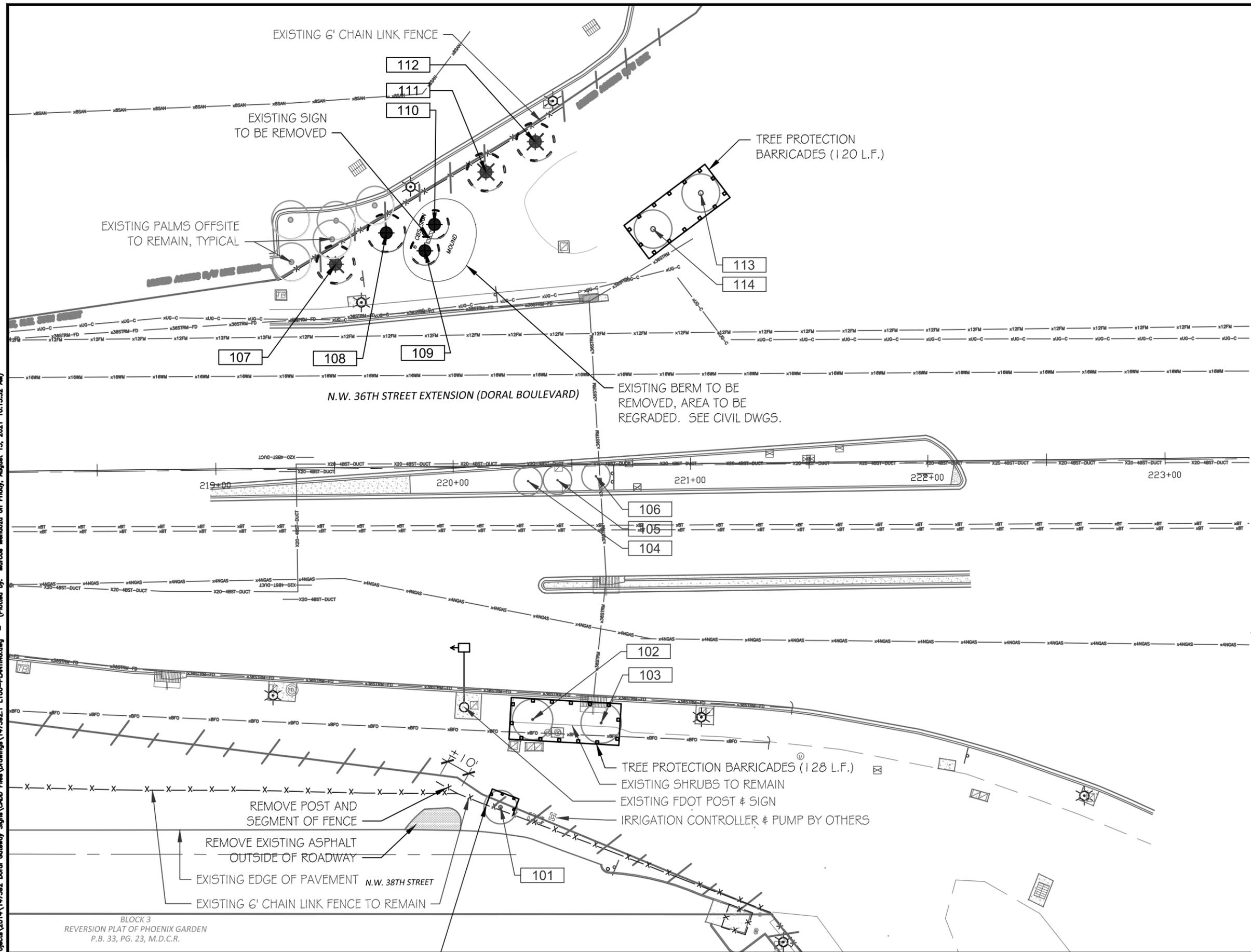
SIGN LOCATION DETAILS

TAMMY D. COOK, R.L.A.
 STATE OF FLORIDA REGISTERED LANDSCAPE ARCHITECT
 LICENSE No. 1328
 DATE: 8/13/2021

SCALE: AS SHOWN
 PROJECT No: 147392.1
 SHEET: **L-2**



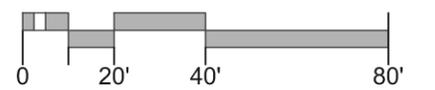
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LEGEND OF EXISTING PLANT SYMBOLS:

SYMBOLS	DESCRIPTIONS
	EXISTING TREE/PALM TO REMAIN
	EXISTING TREE/PALM TO REMAIN (OUTSIDE PROJECT LIMITS/OFF-SITE)
	EXISTING PALM TO BE RESTAKED
	EXISTING TREE/PALM TO BE REMOVED
	EXISTING TREE/PALM TO BE REMOVED (NO MITIGATION REQUIRED)
	EXISTING PLANT MATERIAL IDENTIFICATION LABEL
	TREE BARRICADE/FENCING (274 L.F.)

REFER TO SHEET L-4 FOR TREE DISPOSITION SCHEDULE



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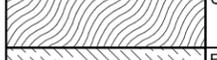
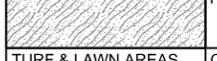
DORAL GATEWAY SIGNS
DORAL, FLORIDA

DISPOSITION PLAN

TAMMY D. COOK, R.L.A.
STATE OF FLORIDA REGISTERED LANDSCAPE ARCHITECT
LICENSE No. 1328
DATE: 8/13/2021

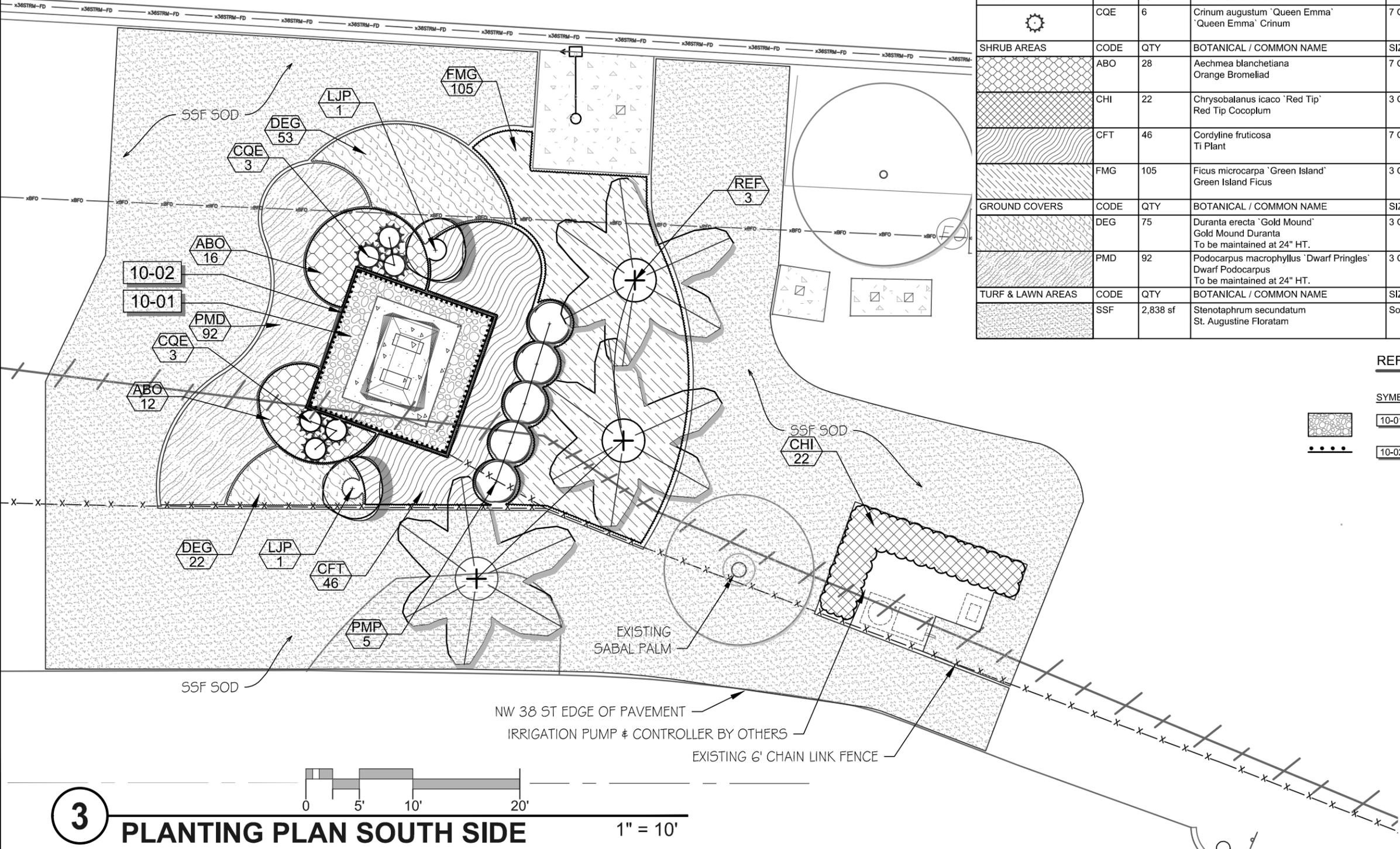
SCALE: 1" = 40'
PROJECT No: 147392.1
SHEET: **L-3**

File Name: F:\Projects\2014\147392 Doral Gateway_Signa\CADD Files\PLANTING.dwg - (Plotted by: Marcos Mendoza on Friday, August 13, 2021 10:16:06 AM)

PLANT SCHEDULE (SOUTH SIDE OF DORAL BLVD)						
TREES	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	SPEC.	
	LJP	2	Ligustrum japonicum Japanese Privet	25 G, 10' HT x 6' SPR, 2" C	Single, Florida Fancy	
	PMP	5	Podocarpus macrophyllus Podocarpus	25 G, 10' HT x 4' SPR, 2" C	Full to base, Florida Fancy	
PALM TREES	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	SPEC.	
	REF	3	Roystonea elata Florida Royal Palm	FG, 25' OA, 10' WD	Florida Fancy	
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	SPEC.	SPACING
	CQE	6	Crinum augustum 'Queen Emma' 'Queen Emma' Crinum	7 G, 36" HT x 30" SPR		32" o.c.
SHRUB AREAS	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	SPEC.	SPACING
	ABO	28	Aechmea blanchetiana Orange Bromeliad	7 G, 24" x 24"		24" o.c.
	CHI	22	Chrysobalanus icaco 'Red Tip' Red Tip Cocoplum	3 G, 24" x 24"	Full	24" o.c.
	CFT	46	Cordyline fruticosa Ti Plant	7 G, 30" HT	Full, 3-5 PPP	24" o.c.
	FMG	105	Ficus microcarpa 'Green Island' Green Island Ficus	3 G, 18" x 18"	Full to ground.	24" o.c.
GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	SPEC.	SPACING
	DEG	75	Duranta erecta 'Gold Mound' Gold Mound Duranta To be maintained at 24" HT.	3 G, 12" HT. X 12" SPR.		18" o.c.
	PMD	92	Podocarpus macrophyllus 'Dwarf Pringles' Dwarf Podocarpus To be maintained at 24" HT.	3 G, 12" HT. X 12" SPR.		18" o.c.
TURF & LAWN AREAS	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	SPEC.	SPACING
	SSF	2,838 sf	Stenotaphrum secundatum St. Augustine Floratam	Sod		

REFERENCE NOTES (SOUTH SIDE OF DORAL BLVD)

SYMBOL	10 SPECIALTIES DESCRIPTION	QTY	DETAIL
	10-01 Chattahoochee River Stone	1.86 cy	
	10-02 6.5" PROPOSED ALUMINUM EDGE	54 lf	



3 PLANTING PLAN SOUTH SIDE 1" = 10'



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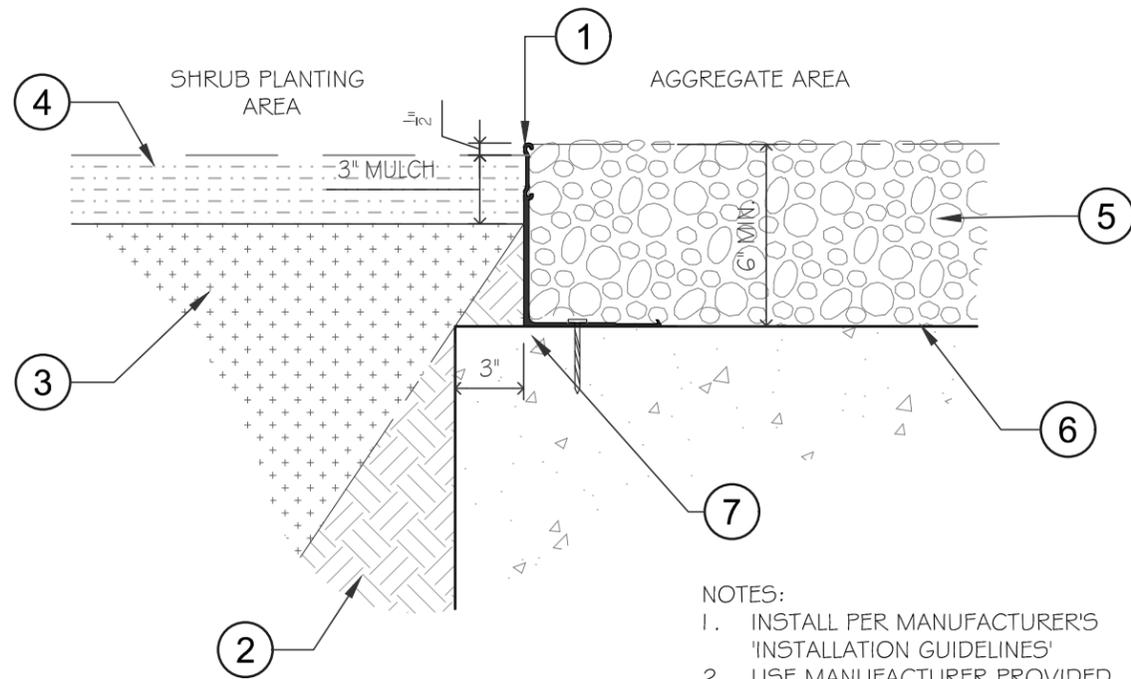
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DORAL GATEWAY SIGNS
DORAL, FLORIDA

PLANTING SIGN DETAIL

TAMMY D. COOK, R.L.A. STATE OF FLORIDA REGISTERED LANDSCAPE ARCHITECT LICENSE No. 1328	SCALE AS SHOWN	SHEET: L-7
DATE: 8/13/2021	PROJECT No 147392.1	

File Name: P:\Projects\2014\147392 Doral Gateway_Signa\CADD Files\Drawings\147392.1 L100-PLANTING.dwg - (Plotted by: Marcos Mendoza on Friday, August 13, 2021 10:16:10 AM)



- ① ALUMINUM RESTRAINT EDGE: PARMALOC GEOEDGE (6.5" X 5.5"), MILL FINISH (NATURAL ALUMINUM)
- ② COMPACT BASE, SEE STRUCUTRAL PLANS
- ③ PLANTING SOIL TYPICAL
- ④ 3" MULCH TYPICAL
- ⑤ 6" DEPTH AGGREGATE (SEE PLANTING PLAN FOR TYPE)
- ⑥ CONCRETE SPREAD FOOTING FOR SIGN
- ⑦ INSTALL EDGE 3" FROM EDGE OF 14' X 14' SPREAD FOOTING OF SIGN. ATTACH WITH CONCRETE SCREWS. INSTALL WITH GEOEDGE DRAIN SLOTS VERTICAL FOR DRAINAGE OF AGGREGATE AREA.

NOTES:
 1. INSTALL PER MANUFACTURER'S 'INSTALLATION GUIDELINES'
 2. USE MANUFACTURER PROVIDED SLIDING CONNECTORS FOR CONNECTING EDGE RESTRAINTS.
 3. CORNERS: NOTCH BASE ONLY AND FORM A CONTINUOUS CORNER.

MANUFACTURED BY:
 PERMALOC CORPORATION
 13505 BARRY STREET
 HOLLAND, MI 49424
 616-399-9600
 FAX 616-399-9770

1 ALUMINUM 6.5 INCH EDGE DETAIL

N.T.S.

LANDSCAPE PLANTING NOTES:

- 1. CONTRACTOR SHALL INSTALL TREES AND PALMS PER FDOT STANDARD PLANS INDEX 580-001
- 2. CONTRACTOR SHALL FOLLOW FDOT STANDARD SPECIFICATIONS FOR ALL PLANTING REQUIREMENTS NOT SPECIFIED ON PLANS.

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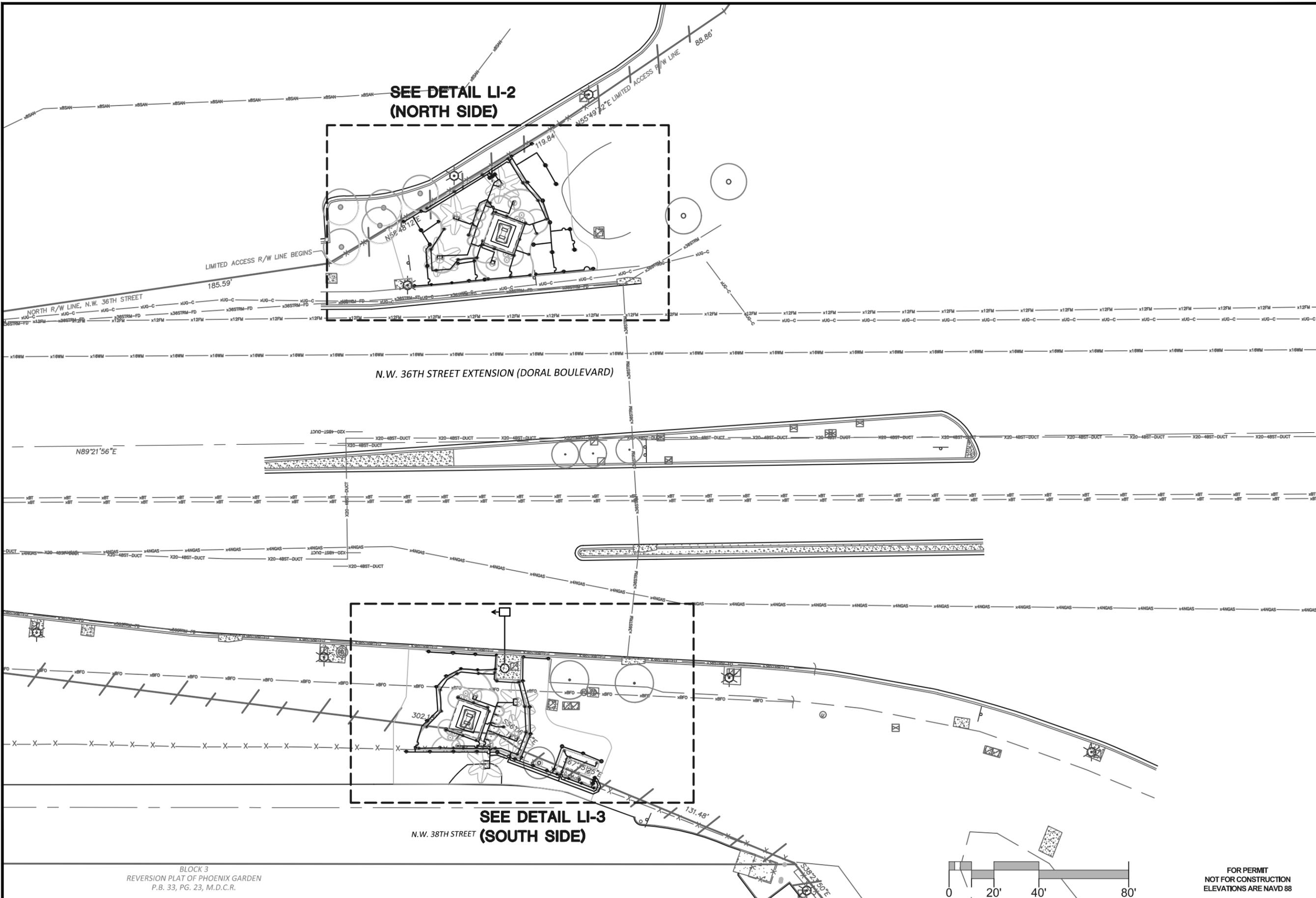
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 DORAL, FLORIDA

PLANTING DETAILS

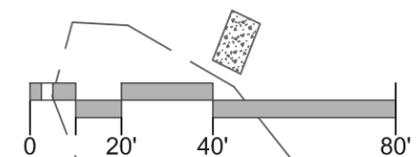
TAMMY D. COOK, R.L.A.
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 LICENSE No. 1328
 DATE: 8/13/2021

SCALE: 1" = 40'
 PROJECT No: 147392.1
 SHEET: **L-8**

File Name: P:\Projects\2014\147392 Doral Gateway_Signa\CADD Files\Drawings\147392.1 LI100-IRRIGATION.dwg - (Plotted by: Marcos Mendoza on Friday, August 13, 2021 10:17:04 AM)



BLOCK 3
REVERSION PLAT OF PHOENIX GARDEN
P.B. 33, PG. 23, M.D.C.R.



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DORAL GATEWAY SIGNS
DORAL, FLORIDA

IRRIGATION PLAN (OVERALL)

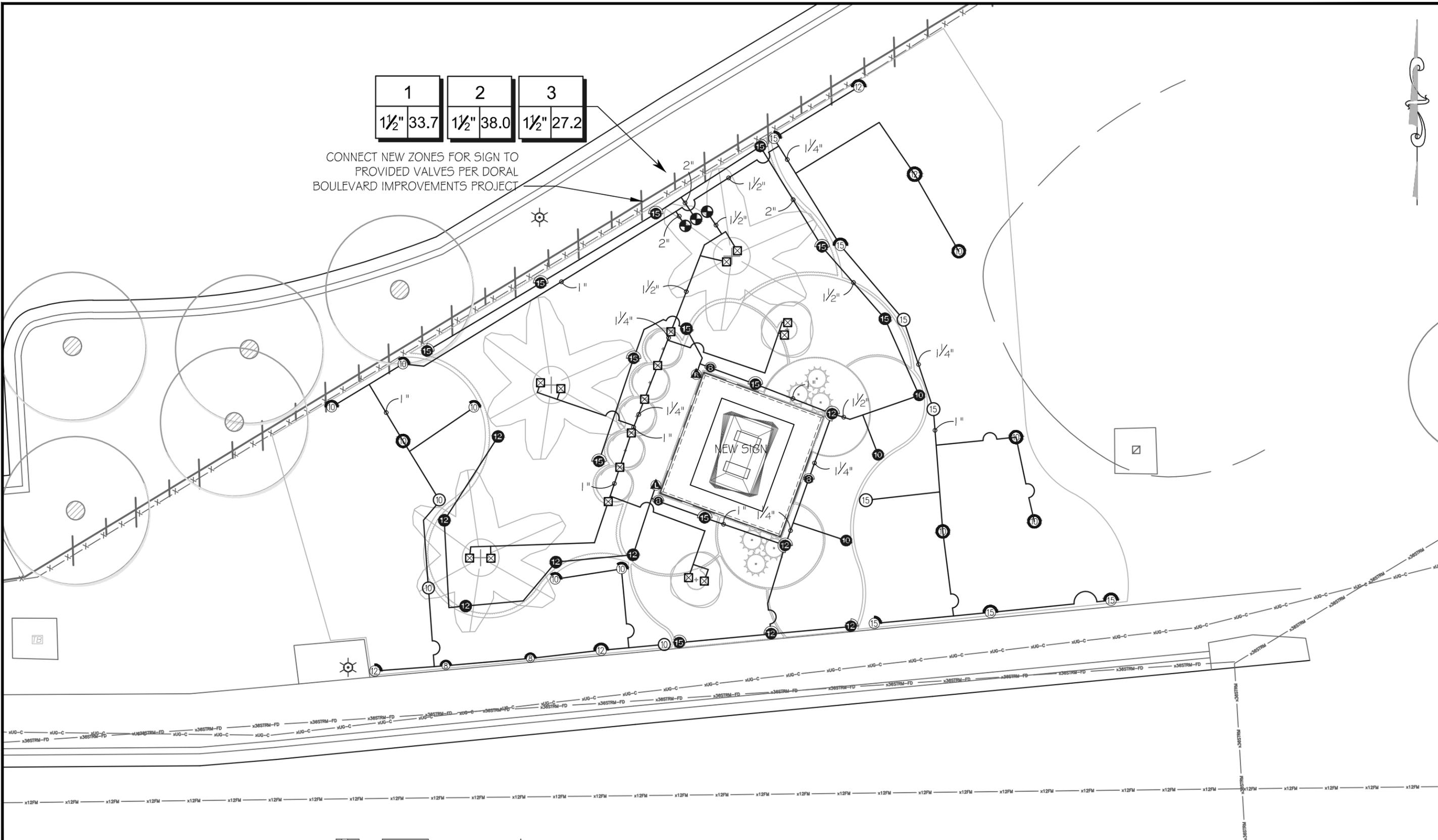
TAMMY D. COOK, R.L.A.
STATE OF FLORIDA REGISTERED LANDSCAPE ARCHITECT
LICENSE No. 1328
DATE: 8/13/2021

SCALE
1" = 40'
PROJECT No
147392.1
SHEET:
LI-1

File Name: P:\Projects\2014\147392 Doral Gateway Signs\CADD Files\IRRIGATION.dwg - (Plotted by: Marcos Mendoza on Friday, August 13, 2021 10:17:09 AM)

1	2	3
1½" 33.7	1½" 38.0	1½" 27.2

CONNECT NEW ZONES FOR SIGN TO PROVIDED VALVES PER DORAL BOULEVARD IMPROVEMENTS PROJECT



2 NORTH SIDE SIGN DETAIL 1" = 10'

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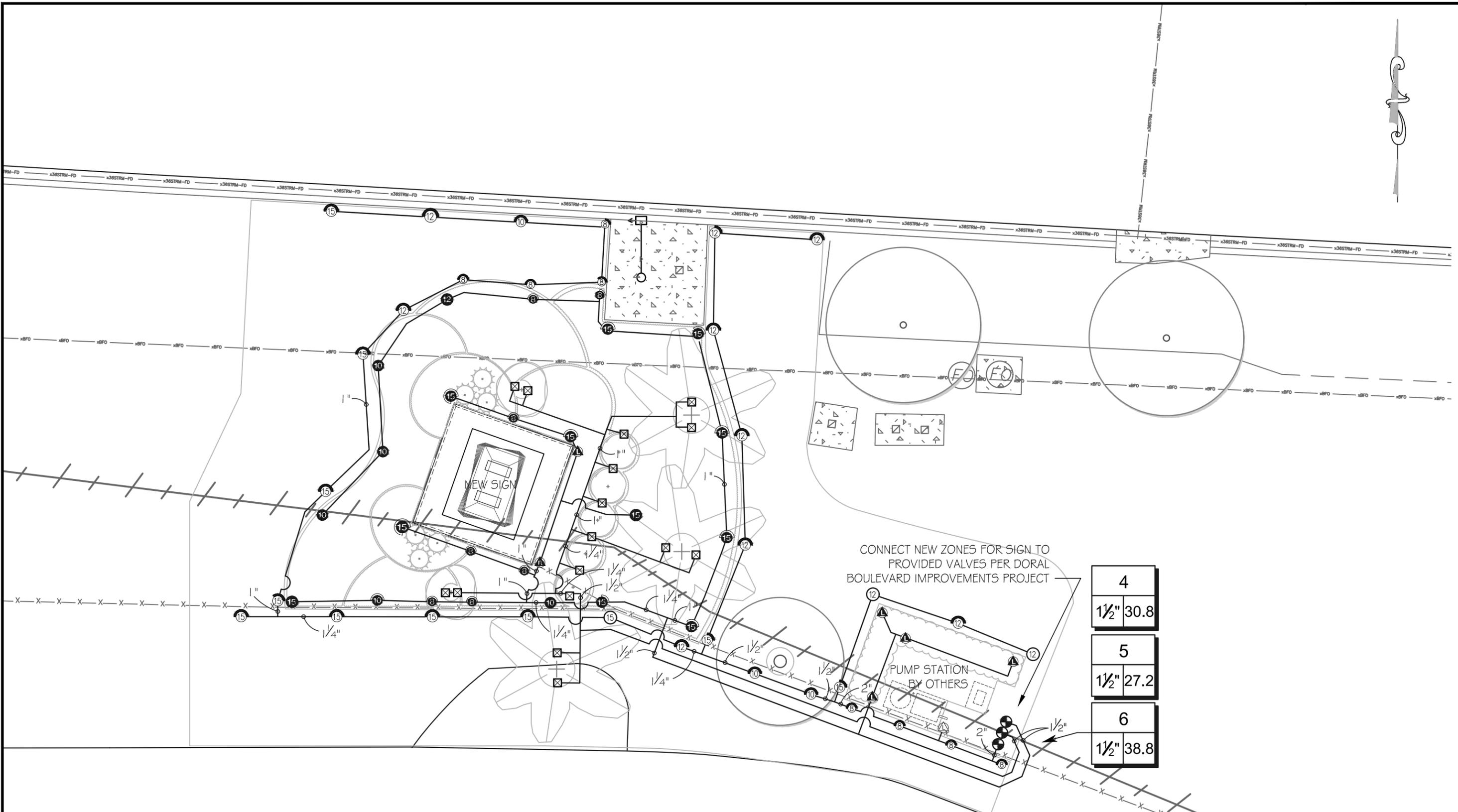
DORAL GATEWAY SIGNS
DORAL, FLORIDA

IRRIGATION SIGN DETAIL

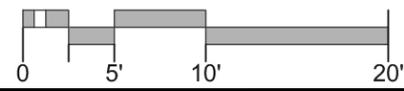
TAMMY D. COOK, R.L.A.
STATE OF FLORIDA REGISTERED LANDSCAPE ARCHITECT
LICENSE No. 1328
DATE: 8/13/2021

SCALE: 1" = 10'
PROJECT No: 147392.1
SHEET: **LI-2**

File Name: P:\Projects\2014\147392 Doral Gateway_Signa\CADD Files\IRRIGATION.dwg -- (Plotted by: Marcos Mendoza on Friday, August 13, 2021 10:17:14 AM)



3 SOUTH SIDE SIGN DETAIL 1" = 10'



CONNECT NEW ZONES FOR SIGN TO PROVIDED VALVES PER DORAL BOULEVARD IMPROVEMENTS PROJECT

4	
1 1/2"	30.8
5	
1 1/2"	27.2
6	
1 1/2"	38.8

FOR PERMIT
NOT FOR CONSTRUCTION
ELEVATIONS ARE NAVD 88

NO	DATE	REVISION	BY	NO	DATE	REVISION	BY

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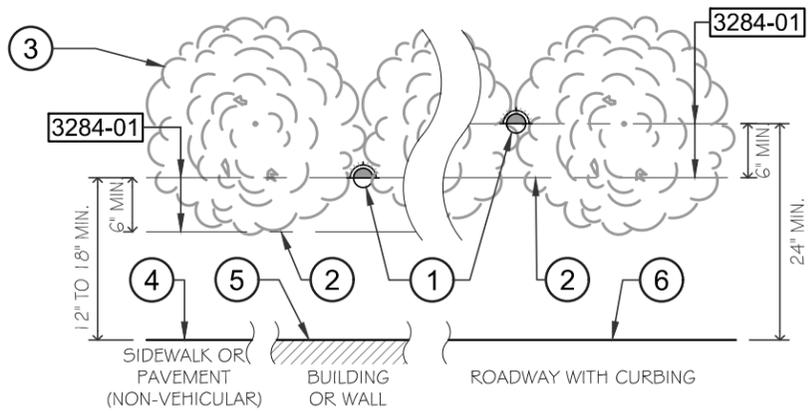
DORAL GATEWAY SIGNS
DORAL, FLORIDA

IRRIGATION SIGN DETAIL

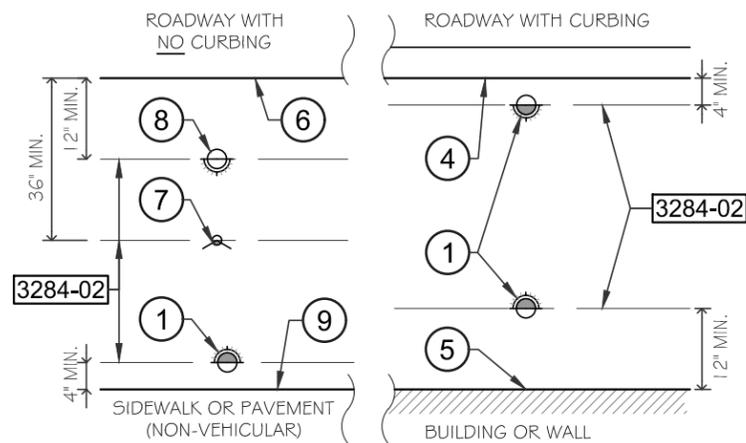
TAMMY D. COOK, R.L.A.
STATE OF FLORIDA REGISTERED LANDSCAPE ARCHITECT
LICENSE No. 1328
DATE: 8/13/2021

SCALE: 1" = 10'
PROJECT No: 147392.1
SHEET: **LI-3**

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LAYOUT FOR SHRUB SPRAY HEADS ON RISERS



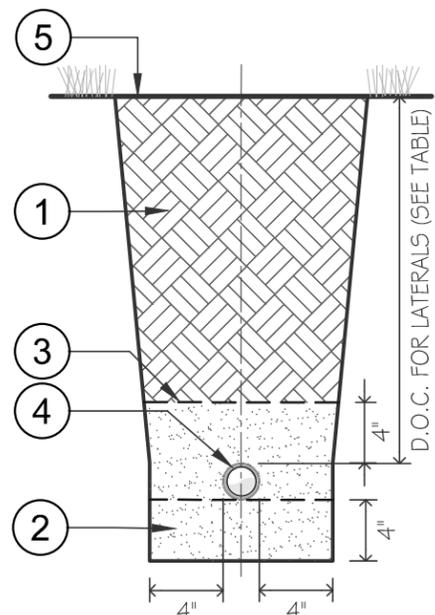
LAYOUT FOR LAWN SPRAYS

- 1 SPRAY HEAD: SHRUB SPRAY, POP-UP OR ROTOR ON RISER (SEE PLANS & SCHEDULE FOR TYPE)
- 2 SPRAY HEAD SHALL BE PLACED A MINIMUM OF 6" WITHIN SHRUB MASS
- 3 TYPICAL SHRUB
- 4 BACK OF CURB, SIDEWALK, OR EDGE OF PAVEMENT (NON-VEHICULAR)
- 5 OUTSIDE EDGE OF WALL
- 6 EDGE OF PAVEMENT (VEHICULAR USE)
- 7 ROTORS SHALL BE INSTALLED 36" FROM EDGE OF PAVEMENT WHEN ROADWAY HAS NO CURB.
- 8 TURF SPRAY SHALL BE INSTALLED 12" FROM EDGE OF PAVEMENT WHEN ROADWAY HAS NO CURB.
- 9 EDGE OF WALK OR NON-VEHICULAR USE PAVEMENT

1 IRRIGATION HEAD LAYOUT DETAIL 3/4" = 1'-0"

KEYNOTE SCHEDULE

CODE	DESCRIPTION	NOTES
3282-15	32 EXTERIOR IMPROVEMENTS	FINAL BACKFILL FOR TRENCHES SHALL BE COMPACTED AS FOLLOWS: (A) AREAS UNDER NEW PAVEMENT (WALKS, ROADS, CURBS OR PADS), OR WITHIN 2' (FEET) OF THE EDGE OF PAVEMENT SHALL BE COMPACTED AND RESTORED AS PER THE CIVIL DRAWINGS AND SPECIFICATIONS. IF THE CIVIL DRAWINGS AND SPECIFICATIONS DO NOT SPECIFY COMPACTION A MINIMUM OF 95% OR GREATER OF MAXIMUM DRY DENSITY STANDARD PROCTOR COMPACTION SHALL BE REQUIRED. (B) LANDSCAPE AREAS SHALL BE COMPACTED BETWEEN 85 AND 90% OF MAXIMUM DRY DENSITY STANDARD PROCTOR, OR AS SPECIFIED IN THE 'PLANTING SOIL' SPECIFICATIONS. (C) THERE SHALL BE NO TRENCHES THROUGH EXISTING PAVED SURFACES.
3284-01		Shrub sprays & rotors installed on above ground risers (or where spray heads remain above ground when not in use) shall maintain the following clearances: 18" from back of curb along roadways (roadways without curbs shall not have above ground metal risers installed within 72" (6 feet) of edge of pavement, unless some other form of vehicular protection is provided); 12" from sidewalks when plant mass provides adequate protection & screening, in new construction, 18" from sidewalk edge is the recommended distance for new plant material not yet established; 12" from buildings or walls; as well as maintain a minimum of 6" cover within plant mass.
3284-02		Lawn sprays & rotors shall be installed, in such a way as to be flush with the grade when not in use & shall maintain the following clearances: 12" min. from uncurbed roadways or other vehicular use areas (except for rotors which shall be 48" from edge of pavement); 4" from curbed roadways, measured from back of curb; 4" from sidewalks, 12" from buildings and walls.



- 1 SALVAGED EXCAVATED FILL COMPACTED TO ORIGINAL DENSITY, WITH ALL SHARP OBJECTS, ROCKS, STONES OF 3/4" DIAMETER OR GREATER REMOVED PRIOR TO BACK FILLING (TYP.)
- 2 BOTTOM OF TRENCH
- 3 INITIAL BACKFILL & BEDDING TO BE CLEAN, COARSE SAND PLACED IN LIFTS AND MECHANICALLY COMPACTED TO 95% MAXIMUM DRY DENSITY STANDARD PROCTOR WITH A MINIMUM OF 4" BEDDING AND 4" COVER.
- 4 IRRIGATION LATERAL, SIZE PER PLAN
- 5 FINISH GRADE

MINIMUM DEPTH OF COVER FOR LATERALS	
PIPE SIZE (I.D.)	D.O.C.
3/4" TO 1 1/4"	12"
1 1/2" TO 2"	18"
2 1/2" TO 3"	24"
4" TO 5"	30"

- 1. D.O.C. = DEPTH OF COVER, REFER TO TABLE
- 2. ALL DIMENSIONS SHOWN ARE MINIMUM REQUIREMENTS.
- 3. ALL PIPE BENEATH PAVED SURFACES MUST BE SLEEVED.

2 TYPICAL IRRIGATION LATERAL TRENCH DETAIL NTS

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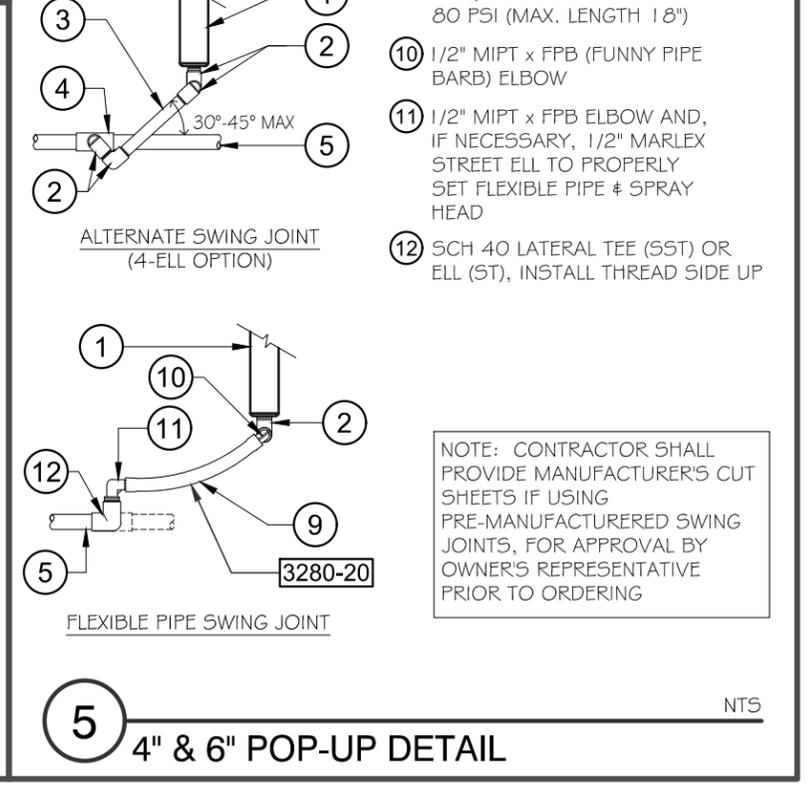
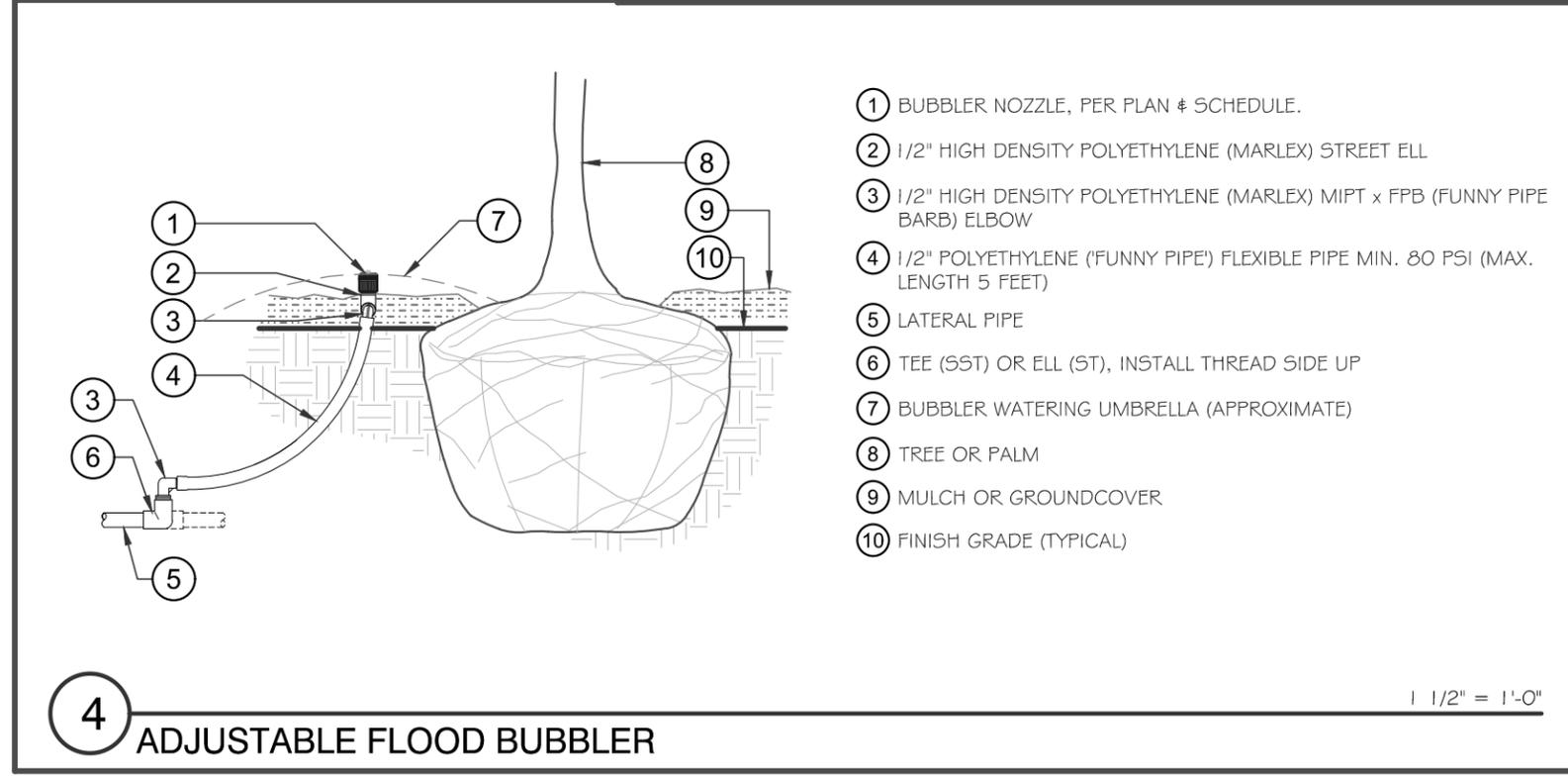
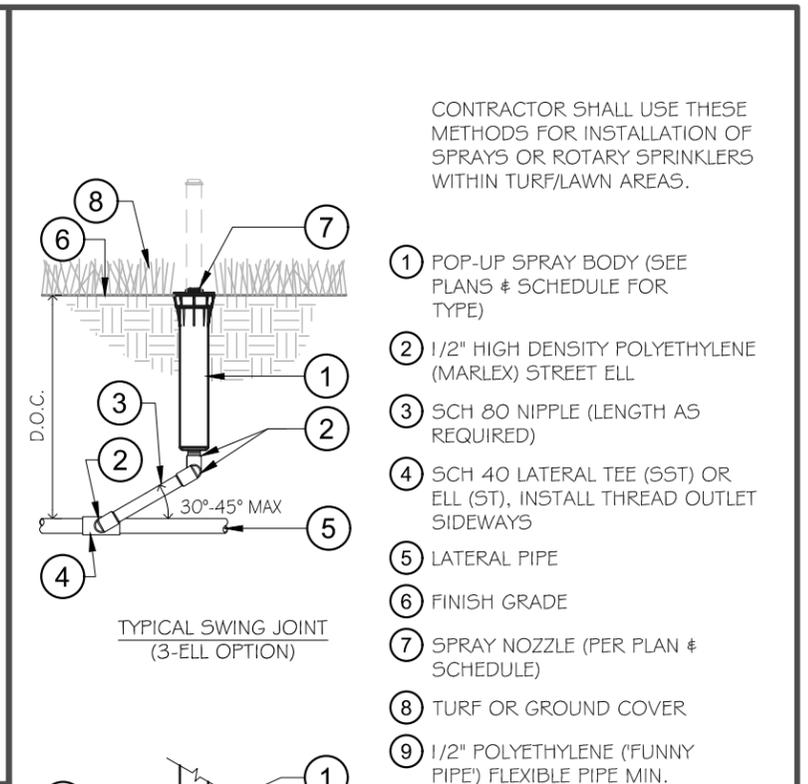
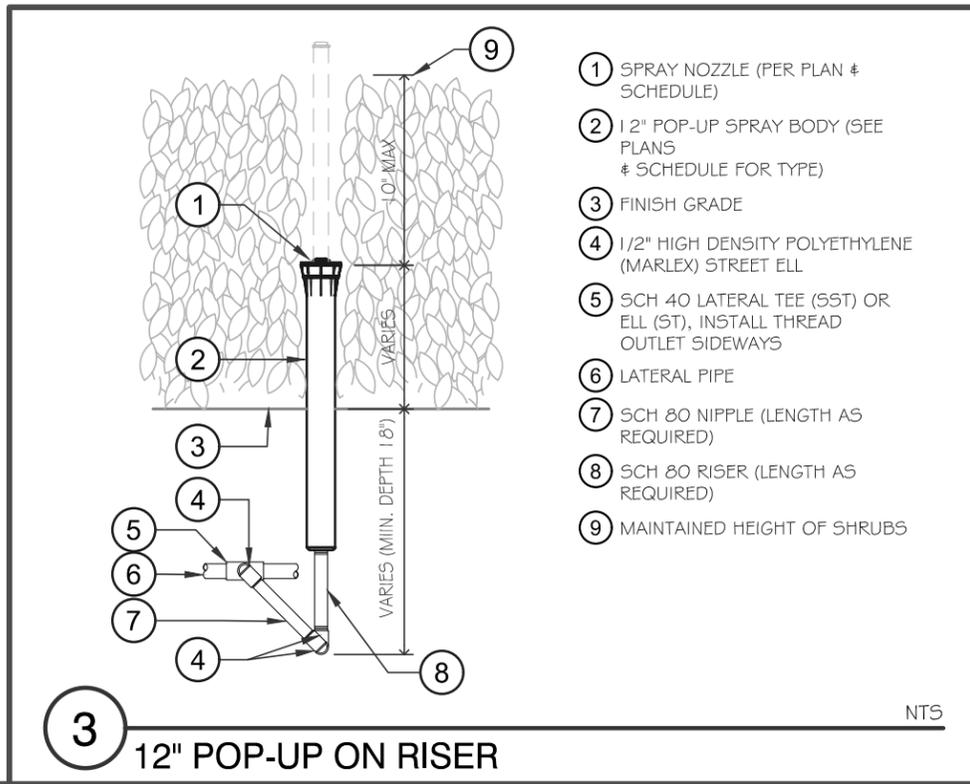
DORAL GATEWAY SIGNS
DORAL, FLORIDA

IRRIGATION DETAILS

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ELEVATIONS ARE NAVD 88
TAMMY D. COOK, R.L.A.
STATE OF FLORIDA REGISTERED LANDSCAPE ARCHITECT
LICENSE No. 1328
DATE: 8/13/2021

SCALE
1" = 40'
PROJECT No
147392.1
SHEET:
LI-7

File Name: P:\Projects\2014\147392 Doral Gateway_Signa\CADD Files\Drawings\147392.1 L100-IRRIGATION.dwg - (Plotted by: Marcos Mendoza on Friday, August 13, 2021 10:17:36 AM)



CONTRACTOR SHALL USE THESE METHODS FOR INSTALLATION OF SPRAYS OR ROTARY SPRINKLERS WITHIN TURF/LAWN AREAS.

- 1 POP-UP SPRAY BODY (SEE PLANS & SCHEDULE FOR TYPE)
- 2 1/2" HIGH DENSITY POLYETHYLENE (MARLEX) STREET ELL
- 3 SCH 80 NIPPLE (LENGTH AS REQUIRED)
- 4 SCH 40 LATERAL TEE (SST) OR ELL (ST), INSTALL THREAD OUTLET SIDEWAYS
- 5 LATERAL PIPE
- 6 FINISH GRADE
- 7 SPRAY NOZZLE (PER PLAN & SCHEDULE)
- 8 TURF OR GROUND COVER
- 9 1/2" POLYETHYLENE ('FUNNY PIPE') FLEXIBLE PIPE MIN. 80 PSI (MAX. LENGTH 18')
- 10 1/2" MIPT x FPB (FUNNY PIPE BARB) ELBOW
- 11 1/2" MIPT x FPB ELBOW AND, IF NECESSARY, 1/2" MARLEX STREET ELL TO PROPERLY SET FLEXIBLE PIPE & SPRAY HEAD
- 12 SCH 40 LATERAL TEE (SST) OR ELL (ST), INSTALL THREAD SIDE UP

NOTE: CONTRACTOR SHALL PROVIDE MANUFACTURER'S CUT SHEETS IF USING PRE-MANUFACTURED SWING JOINTS, FOR APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO ORDERING

NO	DATE	REVISION	BY	NO	DATE	REVISION	BY

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DORAL GATEWAY SIGNS
 DORAL, FLORIDA

IRRIGATION DETAILS

FOR PERMIT
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TAMMY D. COOK, R.L.A.
 STATE OF FLORIDA REGISTERED LANDSCAPE ARCHITECT
 LICENSE No. 1328

DATE: 8/13/2021

SCALE: 1" = 40'

PROJECT No: 147392.1

SHEET: **LI-8**

Date: 2-7-22	City, State: Doral, FL	SHEET: 1 OF 5
Client: Image Resource Group	Overall Height: 24'-0"	Sean M. McFarland, P.E.
Sign: City of Doral	Wind Speed: 180 mph	McFarland Engineering

Sign Description	NW 79th Ave and NW 36th St	Table of Contents
# Columns: 4		Content:
ME Job: 55182 A/B		Design Loads. 1
	ULTIMATE LOADS	Support Design. 1-4
Height: 24'-0"	UPDATED ARTWORK	Combined Baseplate Section 5
Width: 10'-0"		

Structural Variables and Code Loading Specifications

Cabinet Type: Miscellaneous	Code: 2020 FBC 7th Ed
Structural Section: Tube Steel - 46000psi	Wind Speed: 180
Number of Zones: 3	Wind Exposure: C
	Wind Loads Per ASCE 7-16

Sign Sections:

Zone	Cabinet Wt. Per Sq. Ft.	Weight	Transition (Y or N)
1	20	22.4 #/FT	
2	20	22.4 #/FT	
3	15	22.4 #/FT	
4	0		
5	0		
6	0		
7	0		
8	0		

Digitally signed by Sean M. McFarland, P.E.
Date: 2022.02.07 17:31:00 -05'00'

State License: Florida - 61049

Geometry:

Zone	Top Elevation	Height	* Approx. Width	Pressure	Force	Approx. Weight
1	24.00 FT	4.25 FT	5.54 FT *	73.09 PSF	1.72 K	851 #
2	19.75 FT	11.75 FT	7.46 FT *	68.18 PSF	5.98 K	2,805 #
3	8.00 FT	8.00 FT	7.00 FT *	62.49 PSF	3.50 K	1,556 #

ASCE 29.5.1
Force Coefficient for Signage at Overall height - 1.6 (Cf)
Force Coefficient for Signage at 10' Above Grade - 1.5 (Cf)

Total Wind Force = 11.20 K 5,212 #

Date:	2-7-22	City, State:	Doral, FL	SHEET:	2 OF 5
Client:	Image Resource Group	Overall Height:	24'-0"	Sean M. McFarland, P.E.	
Sign:	City of Doral	Wind Speed	180 mph	McFarland Engineering	

NW 79th Ave and NW 36th St

ME Job: 55182 A/B

Moments at Transitions:

Zone	Lateral Force	Mom. Arm
1	1.72 K	21.88 FT
2	5.98 K	13.88 FT
3	3.50 K	4.00 FT

134.61 K-FT

Section Properties:	8.31 IN ³	00 IN ³				
----------------------------	----------------------	--------------------	--------------------	--------------------	--------------------	--------------------

Structural Sections to be used: FULLY TRUSSED

Zone	Option	Tubes Dim.	Wall t.	Weight	Sxx	d/t	Sxx Req'd
3	Tubes	5.00 IN	0.375 IN	22 #/FT	8.56 IN ³	13.33	8.31 IN ³

Structure Required

# Req'd	Size	Wall Thickness
4	5.00 IN	0.375 IN

Date: 2-7-22	City, State: Doral, FL	SHEET: 3 OF 5
Client: Image Resource Group	Overall Height: 24'-0"	Sean M. McFarland, P.E.
Sign: City of Doral	Wind Speed 180 mph	McFarland Engineering

NW 79th Ave and NW 36th St

Baseplate Design - A36 Steel Fy= 36ksi
 D = 5.00 IN E70 Electrodes Fw= 928 #/in/16th
 e = 2.00 IN A307 A.B.'s Ft=20 ksi
 b = 5.00 IN # of Bolts = 4 Dia. Bolt 1.5
 d = 9.00 IN Column Mom = 33,652 #-FT
 plate t = 1.50 IN

P Bolt =	$M * 12 \text{ (in/ft)}$ 2 bolts (D + e + t)	<u>23,754 #</u>	<	<u>35,300 #</u>
t req'd =	$[(6 * P * e * 2 \text{ bolts}) / (.75 * F_y (D + 2 * t))]^{1/2}$	<u>1.625 IN</u>	>	<u>1.50 IN</u>
Weld =	$M * 12 \text{ (in/ft)}$ Fw (b*d + D ² /3)	<u>8.16 16th's</u>	< (2)	<u>5.00 16th's</u>

USE: (4) 1 1/2" Dia. Bolts w/ 1 1/2" Baseplate w/ (4) Gussets. Weld Tube to Support with (2) 5/16" Fillet Welds. Weld Gussets to Plate with (1) Sided 5/16" Welds.

General Notes

- Contractor shall verify all dimensions and conditions on job site
- Structural steel pipe shall conform to ASTM A53 grade B type E or S, Fy=35 ksi min.
- Structural steel tube shall conform to ASTM A500 grade B, Fy=46 ksi min.
- Structural steel shapes and plates shall conform to ASTM A36.
- Welding shall conform to AISC specs or local codes and performed by certified welder using arc process E70XX electrodes.
- Isolate Aluminum from Steel per Chapter 20 (2002.1) 2003 IBC / 2000 Aluminum Design Manual (AA ASM 35 Parts 1-A / 1-B)
- All bolt holes to be drilled or punched.
- 2500 psi (min) 28-day Concrete Compressive Strength
- All electrical work to conform to the requirements of UL48 and section 600 of NEC.
- UL and Data labels required
- Sign to be a minimum of 6-ft horizontal & 12-ft vertical from high voltage wires.
- If there is no stub pipe to be used in the top cabinet, the supporting member immediately below the stub pipe shown can be extended to the top of the uppermost cabinet.
- All Pipe sizes shown are minimum sizes. Pipe with a larger diameter and/or greater Sxx may be substituted
- All structural lengths required are approximations only. Actual length may vary slightly depending on sign cabinet conditions.

Date: 2-7-22	City, State: Doral, FL	SHEET: 4 OF 5
Client: Image Resource Group	Overall Height: 24'-0"	Sean M. McFarland, P.E.
Sign: City of Doral	Wind Speed 180 mph	McFarland Engineering

NW 79th Ave and NW 36th St

Section Properties			Ybar Calculation										
a1	b	13.000	d	1.500	a1	19.500	in ²	y1	0.750	in	y1a1	14.625	in ³
a2	b	0.625	d	4.000	a2	2.500	in ²	y2	3.500	in	y2a2	8.750	in ³
a3	b	0.625	d	4.000	a3	2.500	in ²	y3	3.500	in	y3a3	8.750	in ³
a4	b	0.000	d	0.000	a4	0.000	in ²	y4	0.000	in	y4a4	0.000	in ³
a5	b	0.000	d	0.000	a5	0.000	in ²	y5	0.000	in	y5a5	0.000	in ³
						24.500	in ²			7.750	in	32.125	in ³
Total Height			5.500										
Ybar = Sum Y*A / Sum A													
Ybar=			1.31122449 in										
Ixx Calculation			Ixx=bd ³ / 12 + Ad ²				Sxx Calculation						
d1	0.750	in	14.625 in ⁴				c1	1.311	in				
d2	-2.000	in	13.333 in ⁴				c2	4.189	in				
d3	-2.000	in	13.333 in ⁴										
d4	0.000	in	0.000 in ⁴				Sxx1	31.491	in ³				
d5	0.000	in	0.000 in ⁴				Sxx2	9.858	in ³				
			<u>41.292 in⁴</u>										
Combined													

Date:	2-7-22	City, State:	Doral, FL	SHEET: 5 OF 5
Client:	Image Resource Group	Overall Height:	24'-0"	Sean M. McFarland, P.E.
Sign:	City of Doral	Wind Speed	180 mph	McFarland Engineering

NW 79th Ave and NW 36th St

ME Job: 55182 A/B

SPREAD FOOTING DESIGN

Spread Footing

Loads:	P(DL) =	5,212 #	
	P(LL) =	0 #	
	M(WL) =	134,607 FT-#	
Footing:	CONCRETE	WIDTH =	13.00 FT
		LENGTH =	13.00 FT
		DEPTH =	1.50 FT
		WEIGHT =	38,025 LBS
	SURCHARGE PEDESTAL =	13.00 FT	X
		13.00 FT	X
		0.50 FT	(6" Soil Surcharge)
	WEIGHT =	9,295 LBS	
Overturning:	OTM =	134,607 FT-LBS	
	RM =	341,461 FT-LBS	
	FS =	2.537	>1.5 THEREFORE OK
Soil Pressure:	q(DL+LL) =	30.84 PSF	NET
	q(ALLOW) =	1500 PSF	OK
	FOR DL+WL:		
	e=M/P =	2.56 FT	
	L/6 =	2.17 FT	(Resultant Outside Middle 3rd)
	q(DL+WL) =	404.16 PSF	NET
	q(ALLOW)=	2000 PSF	OK
Reinforcing:	M(DL+LL)=	652 FT-LBS/FT	
	0.75 * M(DL+WL)=	4,588 FT-LBS/FT	DL+WL CONTROLS
	DL+WL CONTROLS		
	ASSUME: f'c=3000 PSI, Fy=40000 PSI (minimal)		
	d=	14.63 IN	
	As(REQ'D)=	0.22 IN^2	
	As(PROV.)=	0.44 IN^2	
	USE #6's AT 12"O.C. T&B, EACH WAY		

GENERAL NOTES:

- 1) The drawings provided are a performance specification and shall be considered the minimum acceptable design requirements. The selected vendor shall be responsible for the design of the structures to comply with or exceed the requirements outlined within these bid documents. The selected vendor shall submit signed and sealed shop drawings by a Florida Registered Engineer acting as the Engineer of Record for the structures and associated foundations. The shop drawings shall detail all materials, dimensions, and connections for review and shall be accompanied by wind load calculations. Signed, Sealed and dated by a Florida Registered Engineer. The selected fabricator/installer shall submit the shop drawings and be responsible for obtaining final permits from the City of Doral and any other jurisdictions as required.
- 2) The selected vendor's Florida Registered Engineer shall design the structure to resist wind loads in accordance with the following:
- i) Florida Building Code 7th Edition (FBC 2020) : For this project as allowed by Section 1609.2, wind loads on the structures shall be determined in accordance with Chapters 26 to 30 of ASCE 7 Minimum Design Load for Buildings and Other Structures. Wind shall be assumed to come from any horizontal direction and wind pressures shall be assumed to act normal to the surface considered.
- (a) Ultimate Design Wind Speed = Vult = 180 mph
(b) Nominal Design Wind Speed = Vasd = 139 mph
(c) Risk Category II
(d) Wind Exposure C
- 3) The foundation shown is for bidding purposes. The selected vendor's Florida Registered Engineer shall design the foundation to resist wind loads in accordance with the requirements of Note 2 above and the "Report of Geotechnical-Exploration" Project No.: 100.142 November 2017 provided by Nutting Engineers of Florida, Inc.
- i) Due to the measured groundwater level, the immediate depth of water data shall not be relied upon alone for foundation design considerations.
- ii) Maximum allowable soil bearing capacity shall not exceed 2500 psf. A negative pressure shall not be allowed to form under the spread footing under maximum wind loads.
- iii) Factor of Safety against overturning shall be greater than 2.0.
- iv) Due to the irregular shape of the structures, the foundations shall be designed to resist the larger wind load anticipated on the Front, Rear, Left, and/or Right side in both directions.
- v) Bottom of the spread footings shall be at least 24" below the lowest adjacent finished grade.
- vi) Upon approval by the geotechnical engineer, the foundation area should then be thoroughly compacted with a vibratory plate compactor operated no faster than at a slow walking pace. The compaction operations must be observed by a representative of Nutting Engineers. In addition, the surface should also be compacted until a density equivalent to at least 98 percent of the modified Proctor maximum dry density (ASTM D-1557) is achieved to a depth of at least 12 inches below the compacted surface. Fill needed to bring the area to construction grade should be placed in maximum loose lifts of 12 inches. Each lift should be thoroughly compacted until densities equivalent to at least 98 percent of the modified Proctor maximum dry density are uniformly obtained. Fill should consist of granular soil, with less than 10% passing the No. 200 sieve, free of rubble, organics (5% or less) clay, debris and other unsuitable material. The fill should have ASTM designation (D-2487) of GP, GW, SP, or SW, with a maximum particle size of no more than 3 inches or as otherwise approved by Nutting Engineers. Sand which becomes loosened as a result of foundation excavation shall be recompacted to at least 98 percent of the modified Proctor maximum dry density (ASTM-D1557), for a minimum depth of one (1) foot below the bottom of the footing depth, as determined by field density compaction tests prior to placing reinforcing steel and concrete. If the footing bearing materials become disturbed due to surface water resulting from precipitation and runoff, the unsuitable and disturbed soils should be over excavated and replaced with compacted granular fill meeting the above compaction requirements.
- vii) Once plans are finalized for the proposed construction, a copy of the design documents shall be provided to Nutting Engineers for review to determine whether additional details or changes to their Geotechnical Report recommendations are warranted. Work shall not begin until the Geotechnical Engineer has reviewed and approved the plan of action for foundations as submitted by the vendor's Engineer of Record.
- viii) All foundation work shall be completed in accordance with applicable building codes, other regulations as appropriate, and good standard local practice.
- 4) All work on this project with respect to the structures and associated foundations shall comply with, at a minimum, the following design standards:
- i) Florida Building Code 5th Edition (FBC 2014)
ii) ACI 318—11 Building Code Requirements for Structural Concrete
iii) AA ADM1—2015 Aluminum Design Manual: Part 1—A Specification for Aluminum Structures
- iv) AISC 360—10 Specification for Structural Steel Buildings
v) AISI Design Manual for Structural Tubing
vi) ASCE 7—10 Minimum Design Loads for Buildings and Other Structures
vii) AWS D1.1—D1.1M—2010 Structural Welding Code—Steel
viii) AWS D1.2 Structural Welding Code—Aluminum
ix) Default Weld Requirements: Unless specifically shown on drawings all welds shall be fillet welds. For materials less than 1/4 inch, welds shall be no less than the thickness of the material. For material greater than 1/4 inch, weld shall be equal to thickness of the material less 1/16 inch.

(Continued):

- 5) All work on this project with respect to the structures and associated foundations shall comply with, at a minimum, the following material standards:
- i) Structural Steel:
- (a) Base Plates, Steel Shapes: ASTM A36/A36M—08 Specification for Carbon Structural Steel
(b) HSS Steel Tubing: ASTM A588/A588M—10 Specification for High-strength Low-alloy Structural Steel with 50 ksi (345 MPa) Minimum Yield Point with Atmospheric Corrosion Resistance
(c) Structural Steel & Plate Washer Coating: ASTM A123/A123M—09 Standard Specification for Zinc Coating (Hot-dip) on Iron and Steel Products
(d) Galvanizing Repair: ASTM 780/780M Standard Practice for Repair of Damaged and Uncoated Areas of Hot-Dip Galvanized Coatings
(e) Structural Steel Connections:
1. High Strength Bolts - ASTM F325 A325 Type 1
2. Nuts - ASTM A563 Grade DH Heavy-Hex
3. Washers - ASTM F436 Type 1, one under turned element)
(f) Weld Material: E70XX
(g) ISOLATION: All dissimilar metals to be isolated from each other with neoprene gasketing material or other approved material
- ii) Aluminum Products:
- (a) Round Pipe: Aluminum Alloy 6061-T6
(b) Square/Rectangular Tubing: Aluminum Alloy 6061-T6
(c) Angles: Aluminum Alloy 6063-T5
(d) Connection Hardware: Type 316 Stainless Steel Bolts/Screws
(e) Aluminum Sheet: Aluminum Alloy 3003-H14 painted satin white Matthews Acrylic Polyurethane Paint or approved equal. Specify recommended paint finish
(f) Perforated Aluminum Sheet: Aluminum Alloy 3003-H14 painted with Matthews Clear Coat or approved equal. Specify recommended clear coat finish in bid
- iii) Sign Components:
- (a) All signs inserted into structure shall utilize UL listed LEDs and Transformers.
(b) Each Structure will require one 20 AMP dedicated circuit either 277V or 120V
- iv) Foundation Materials:
- (a) Concrete: Concrete Compressive Strength = 3500 psi @ 28 days
(b) Concrete Reinforcing Materials = ASTM Grade 60
(c) Foundation Anchorage:
1. Anchor Bolts - ASTM F1554 Grade 55
2. Nuts - ASTM A563 Grade DH Heavy-Hex
3. Plate Washers - ASTM A36 (2 per bolt)
4. Coatings (excluding Plate Washers) - ASTM F2329
- 6) Contractor to coordinate with the electrical contractor for the installation of the LED strips and access panels. See Calvin, Giordano & Associates electrical drawing, page E4.

ASCE 7-16, 180 mph Wind, Exposure C
This design Complies with the High Velocity
Hurricane Zone Code and with the 2020 FBC 7th Ed.



464 N. Hiddenbrook Dr,
Advance, NC 27006

Structural Sign Design
&
Engineering Services

Ph: (281) 813-7439
Email: sean@signstructures.com
Web: www.signstructures.com

CITY OF DORAL

Address: NW 79TH AVE AND NW 36TH ST

City/State: DORAL, FL

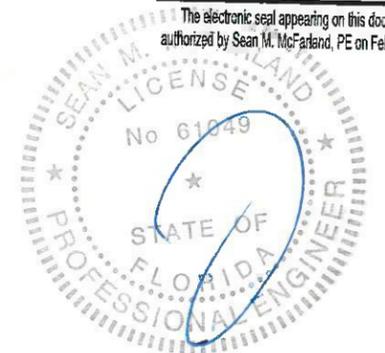
Client: IMAGE RESOURCE GROUP

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Initial Drawing: (40616) AB
Revised Code: (54436) DS
Updated Artwork: (55182) DS

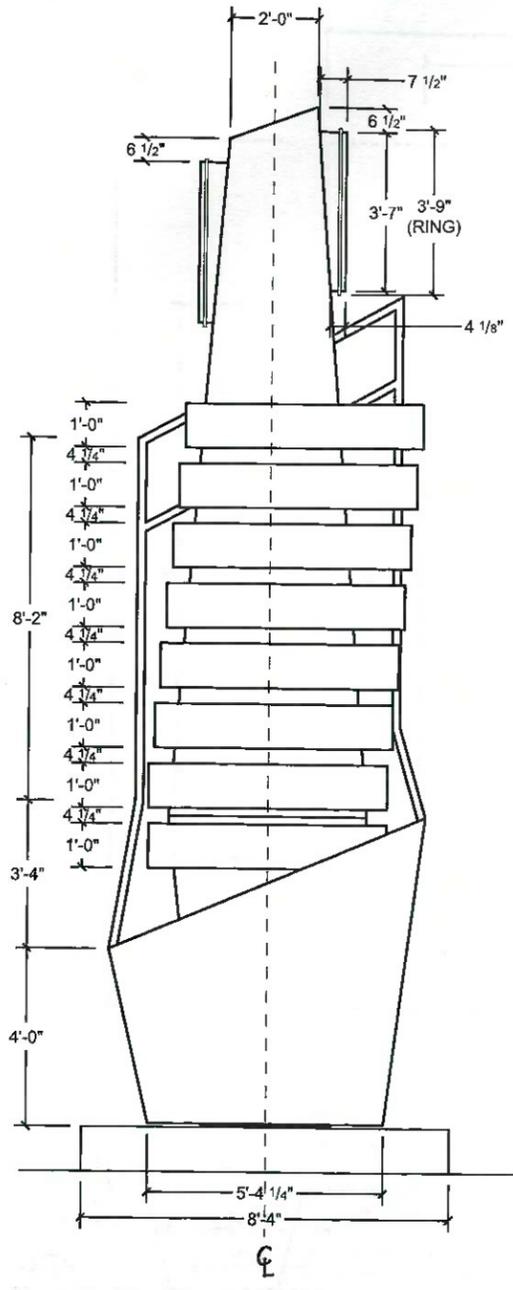
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Florida License Number: 61049
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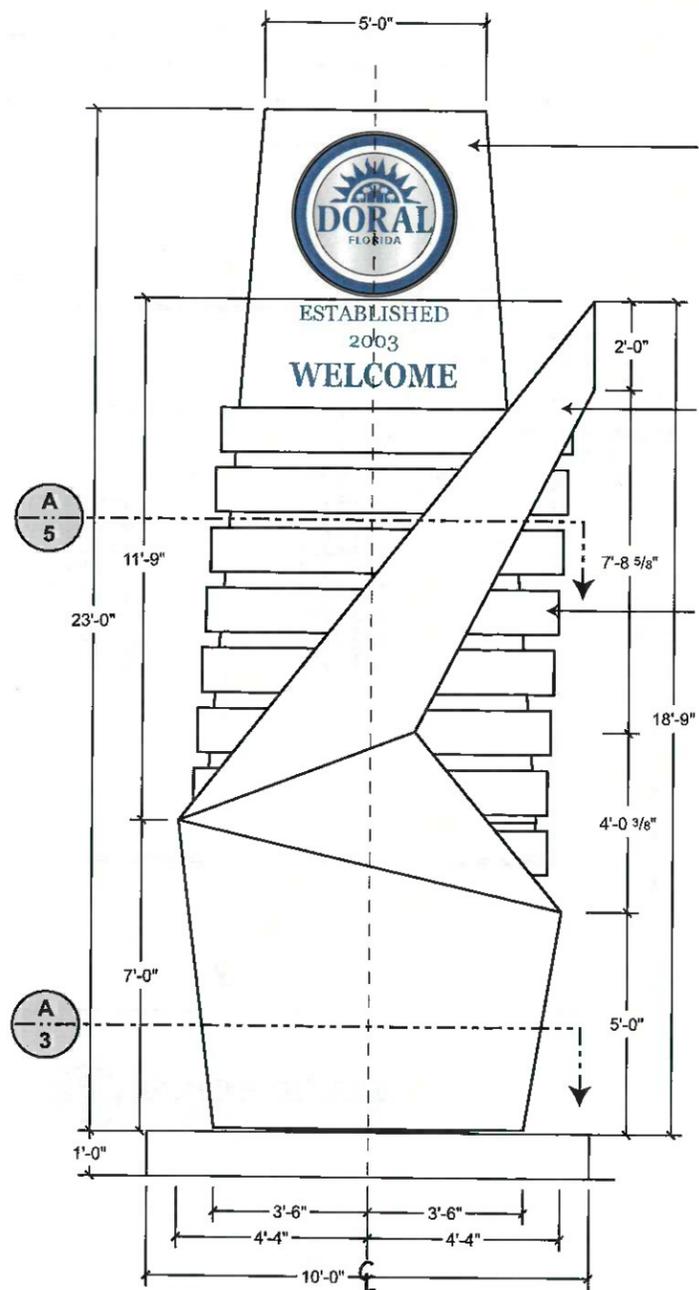


Date: 2-7-2022
Sheet #: 1 of 7

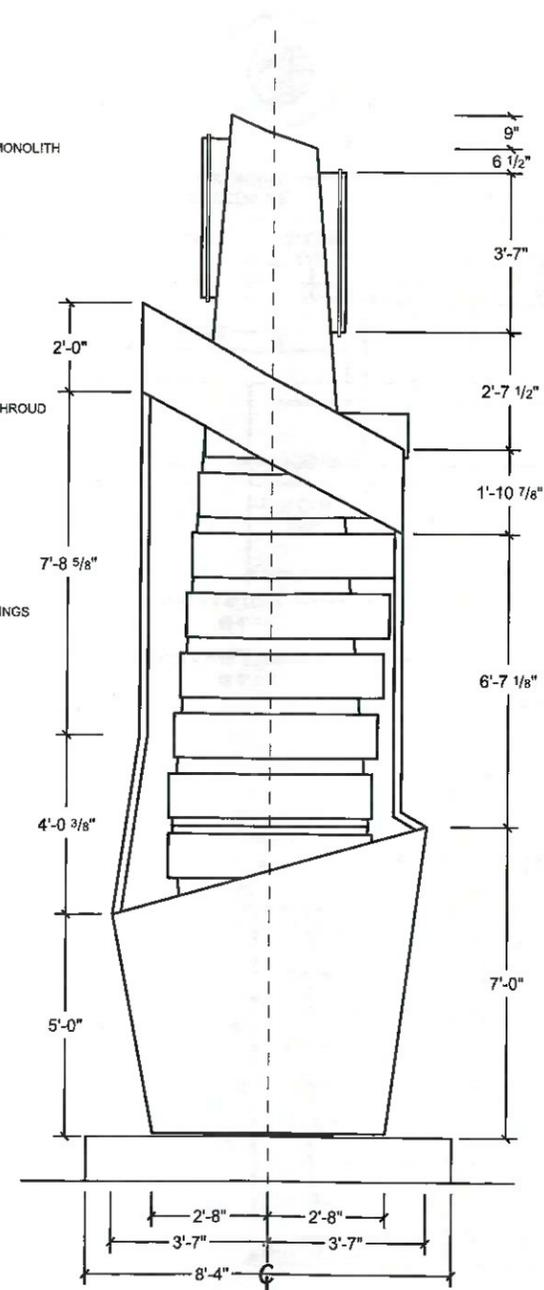
ME #: 55182



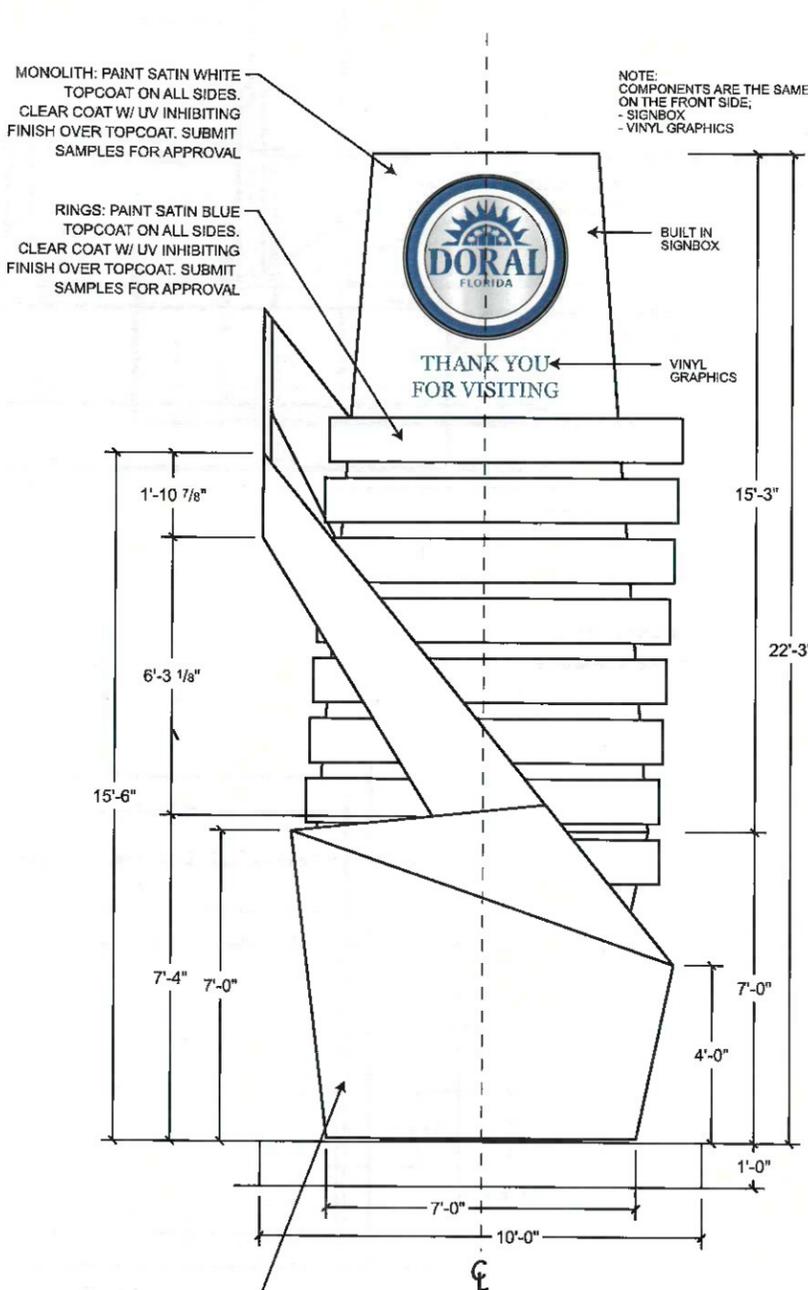
A
2 LEFT SIDE ELEVATION
1/4" = 1'-0"



B
2 FRONT ELEVATION
1/4" = 1'-0"



C
2 RIGHT SIDE ELEVATION
1/4" = 1'-0"



D
2 REAR ELEVATION
1/4" = 1'-0"

MONOLITH: PAINT SATIN WHITE
TOPCOAT ON ALL SIDES.
CLEAR COAT W/ UV INHIBITING
FINISH OVER TOPCOAT. SUBMIT
SAMPLES FOR APPROVAL

RINGS: PAINT SATIN BLUE
TOPCOAT ON ALL SIDES.
CLEAR COAT W/ UV INHIBITING
FINISH OVER TOPCOAT. SUBMIT
SAMPLES FOR APPROVAL

NOTE: COMPONENTS ARE THE SAME
ON THE FRONT SIDE,
- SIGNBOX
- VINYL GRAPHICS

SHROUD: CLEAR COAT.
SUBMIT SAMPLES FOR APPROVAL.

ASCE 7-16, 180 mph Wind, Exposure C
This design Complies with the High Velocity
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McFarland Engineering

464 N. Hiddenbrook Dr,
Advance, NC 27006

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&
Engineering Services

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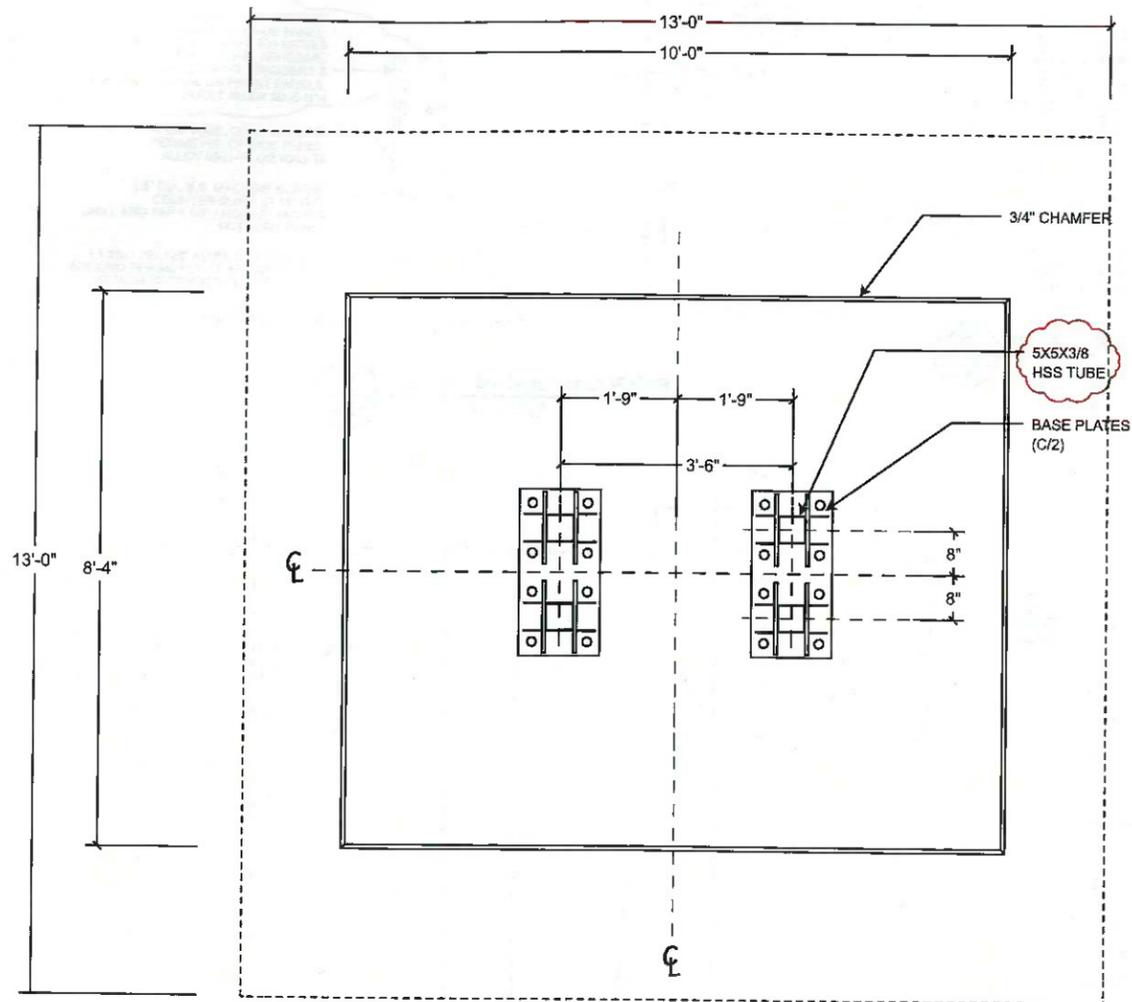
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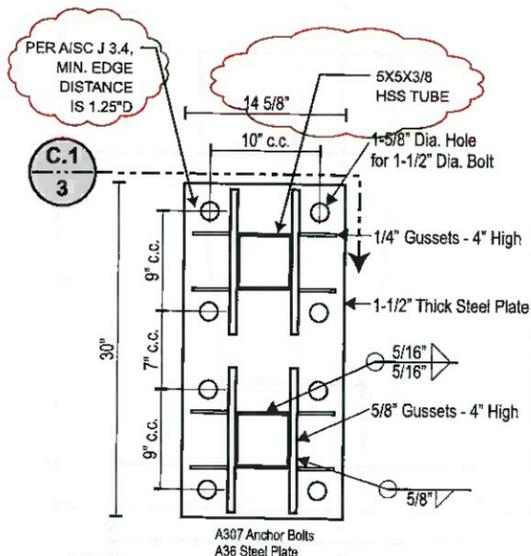


Date: 2-7-2022
Sheet #: 2 OF 7

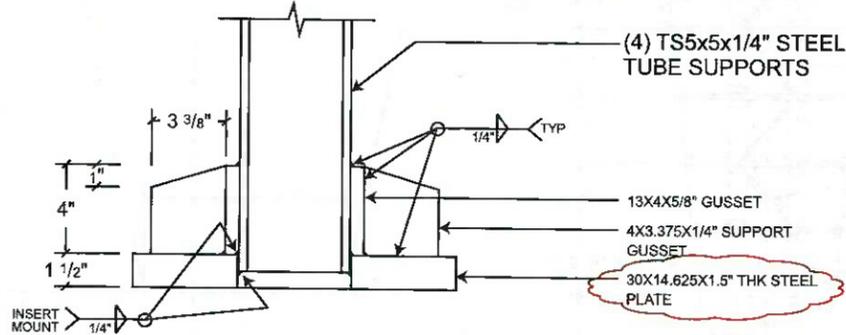
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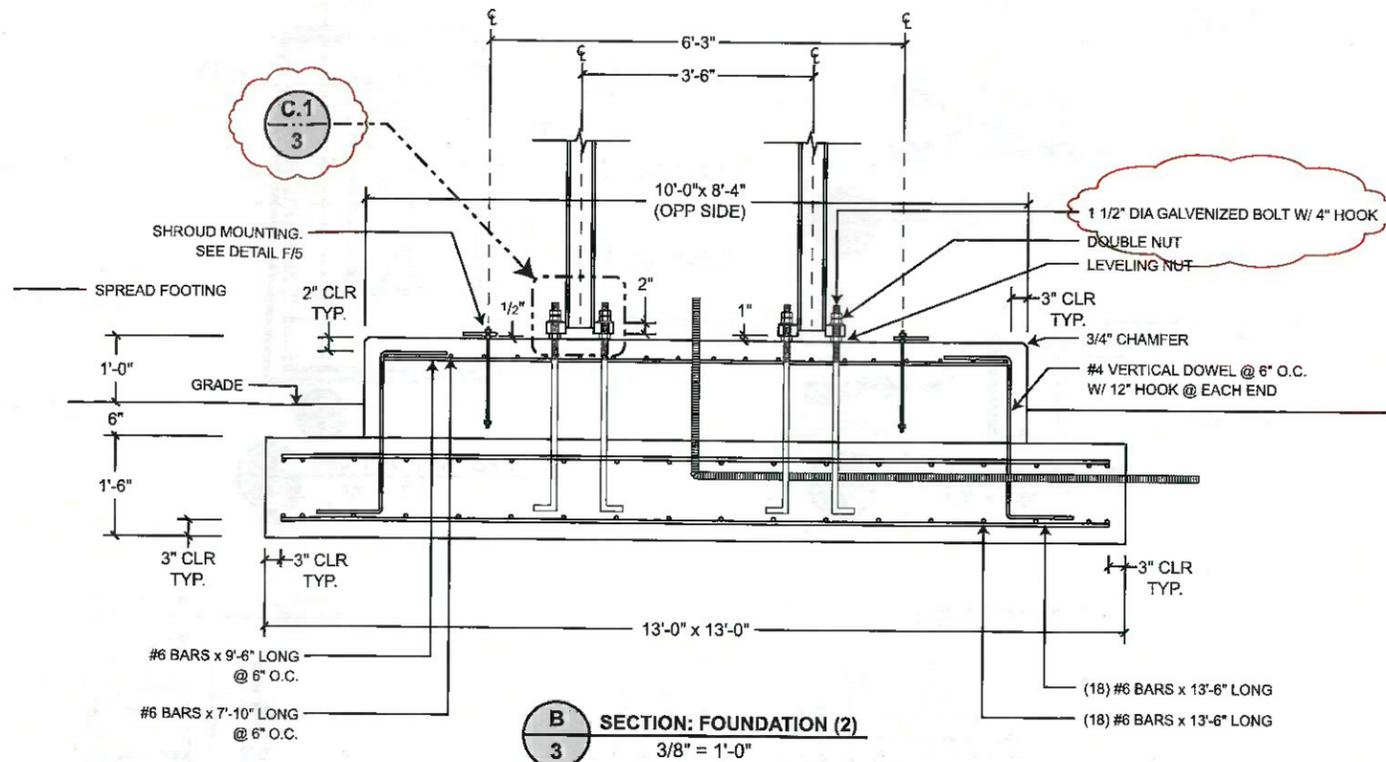
A TOP SECTION VIEW - BASE
3/8" = 1'-0"



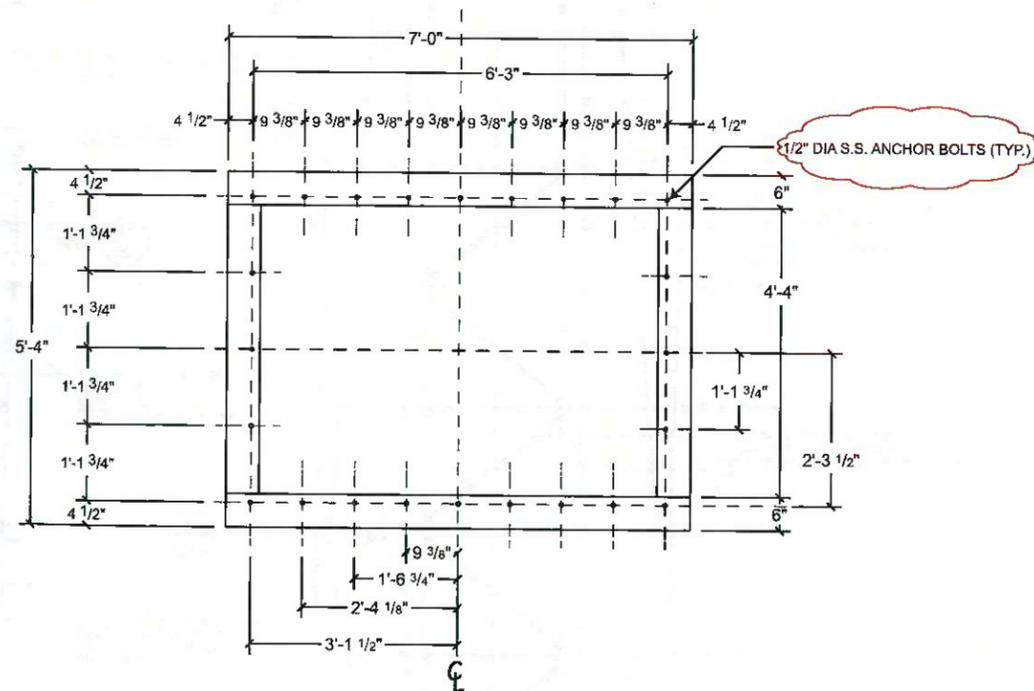
C DETAIL: FRAME BASE PLATES
3/4" = 1'-0"



C.1 DETAIL: FRAME BASE PLATES
3/4" = 1'-0"



B SECTION: FOUNDATION (2)
3/8" = 1'-0"

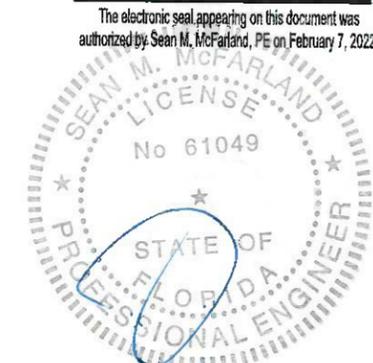


D DETAIL: SHROUD BASE PLATE
3/8" = 1'-0"

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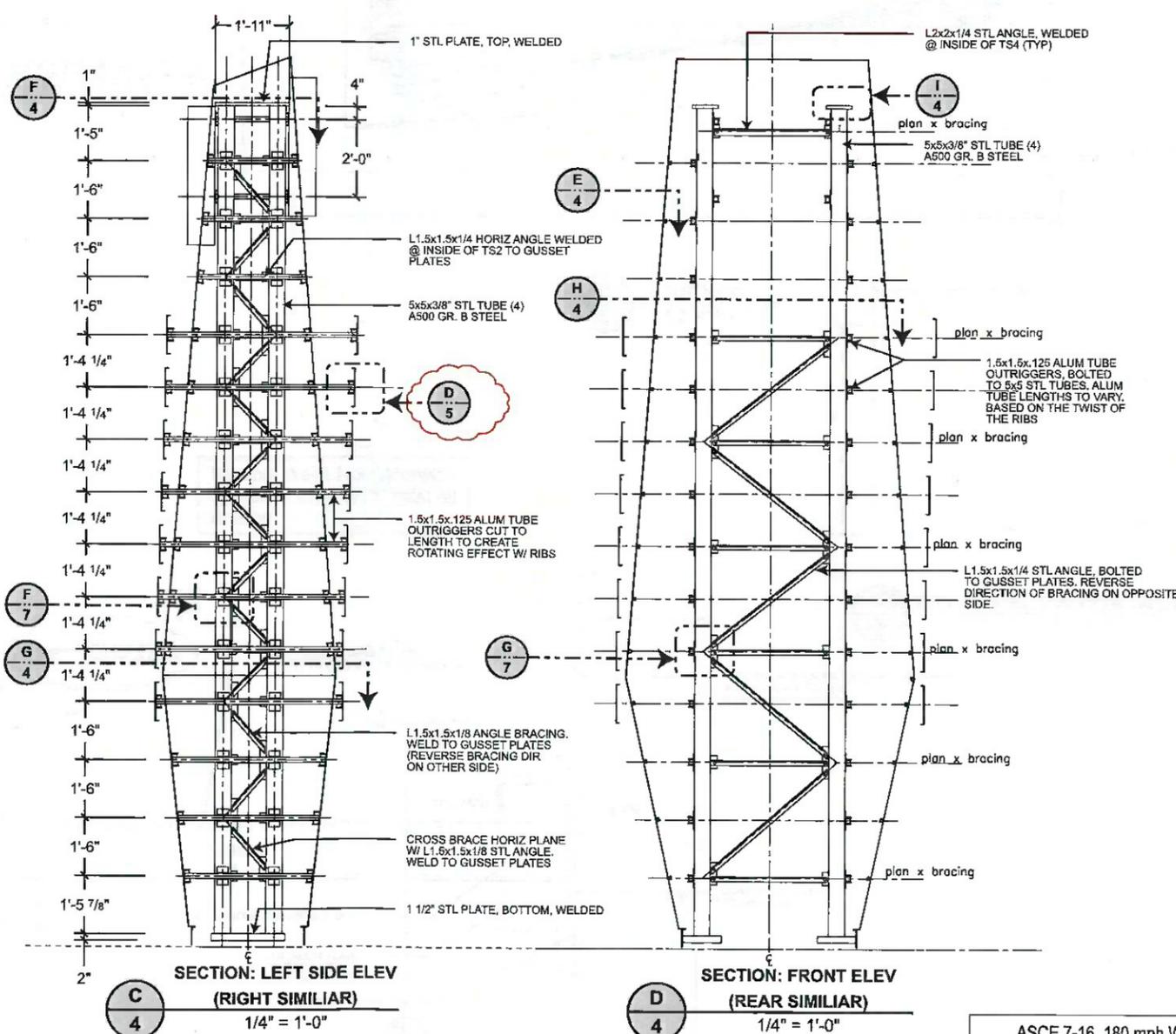
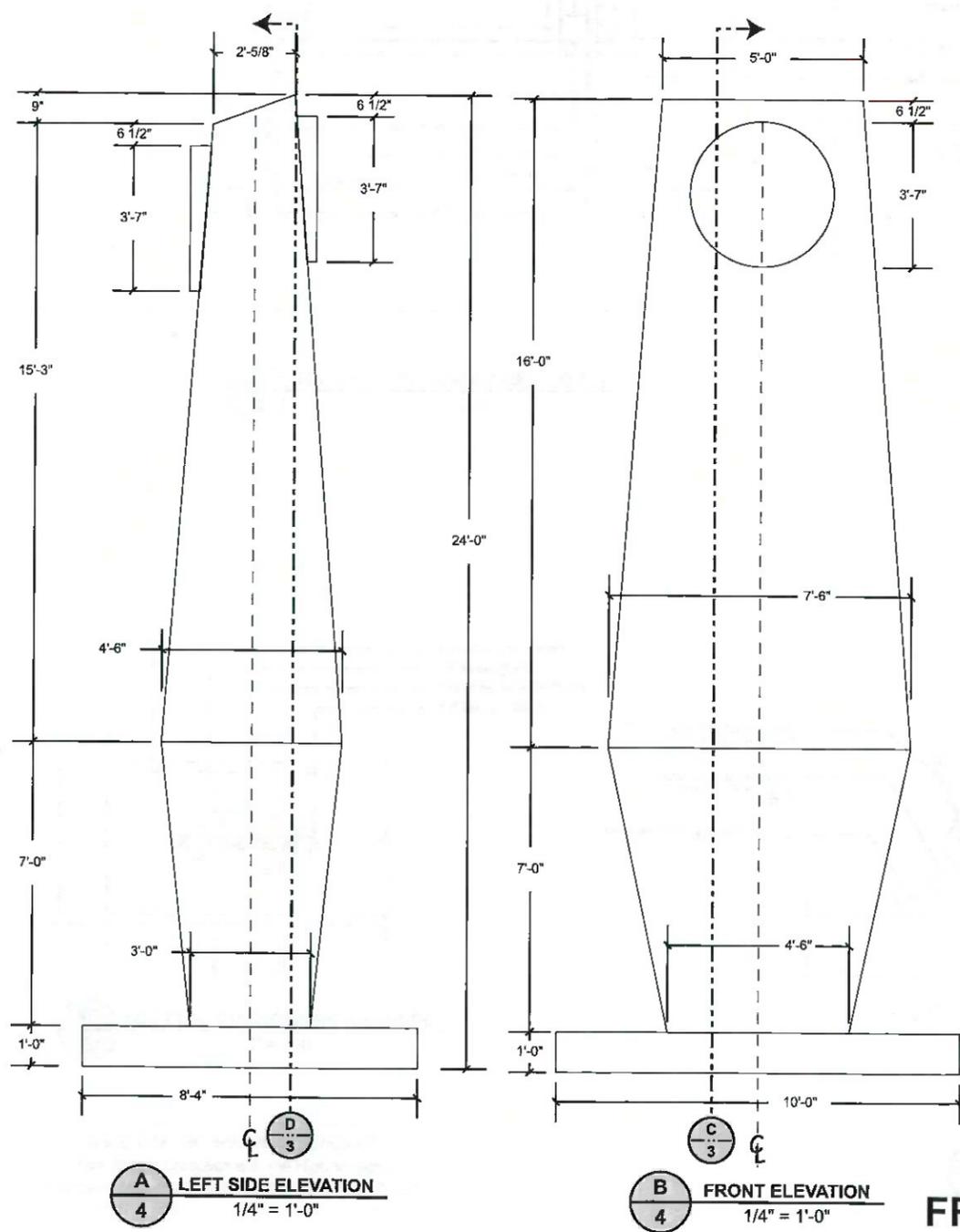
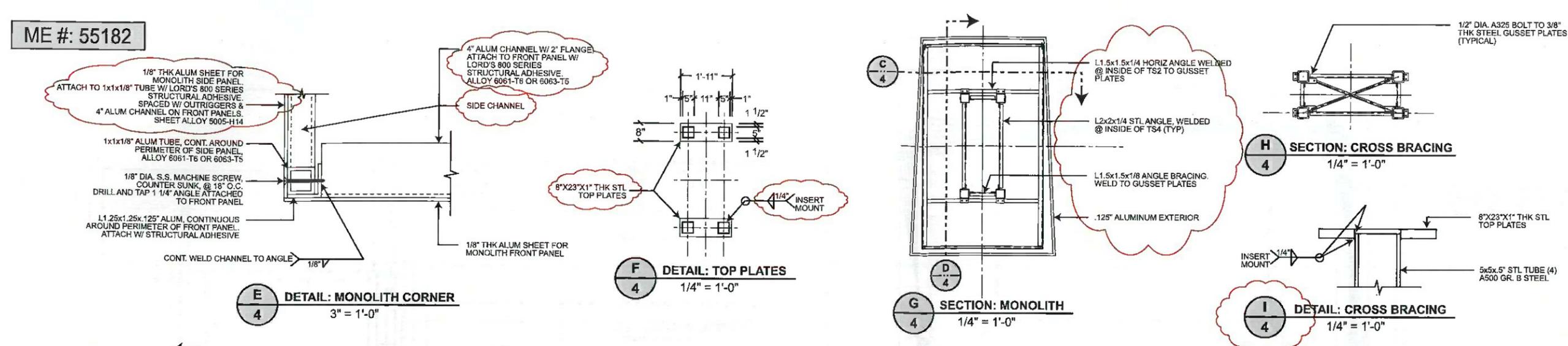
McFarland Engineering
464 N. Hiddenbrook Dr, Advance, NC 27006
Structural Sign Design & Engineering Services
Ph: (281) 813-7439
Email: sean@signstructures.com
Web: www.signstructures.com

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City/State: DORAL, FL
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Date: 2-7-2022
Sheet #: 3 OF 7

ME #: 55182



FRAMING

NOTE:
ALL BRACING SHOWN IN THIS DIRECTION TO BE WELDED TO 3/8\"/>

NOTE:
ALL BRACING SHOWN IN THIS DIRECTION TO BE BOLTED TO 3/8\"/>

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Email: sean@signstructures.com
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CITY OF DORAL

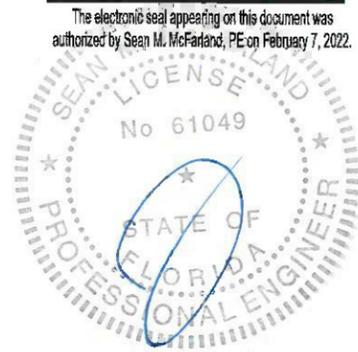
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Client: IMAGE RESOURCE GROUP

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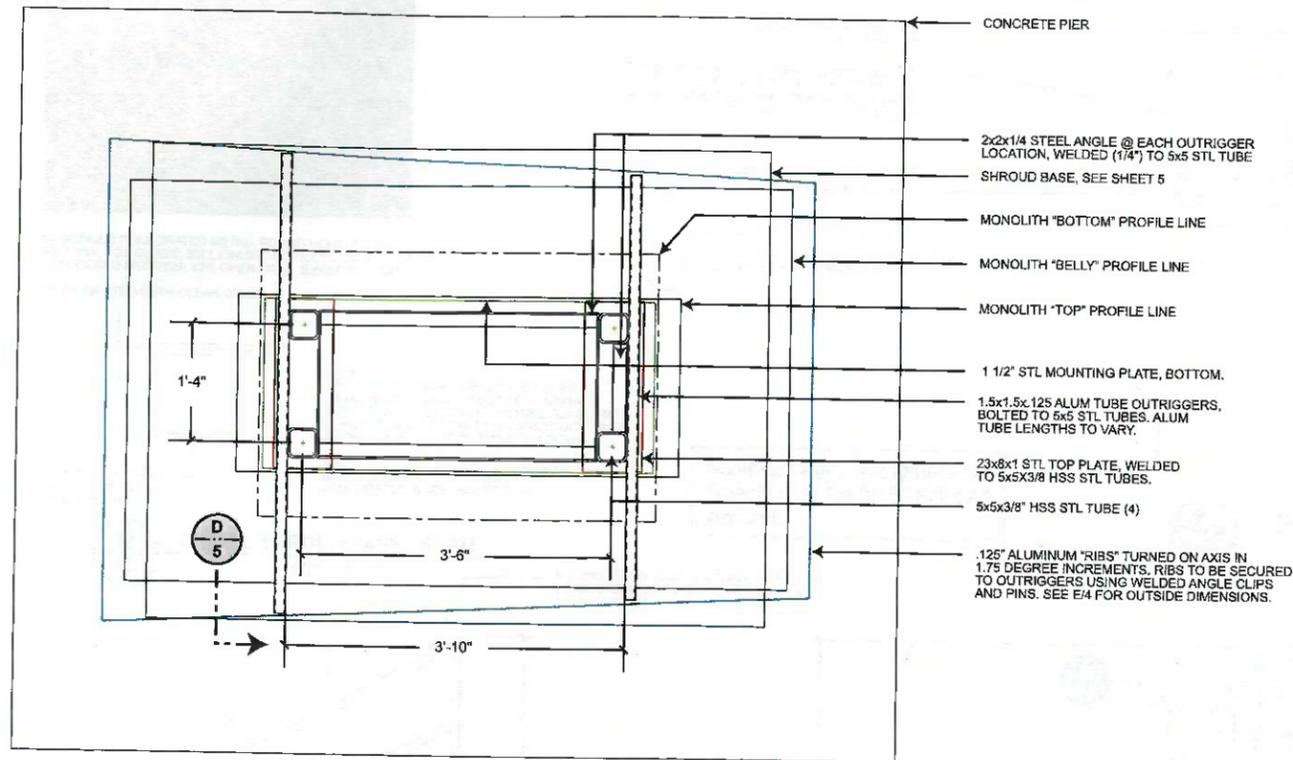
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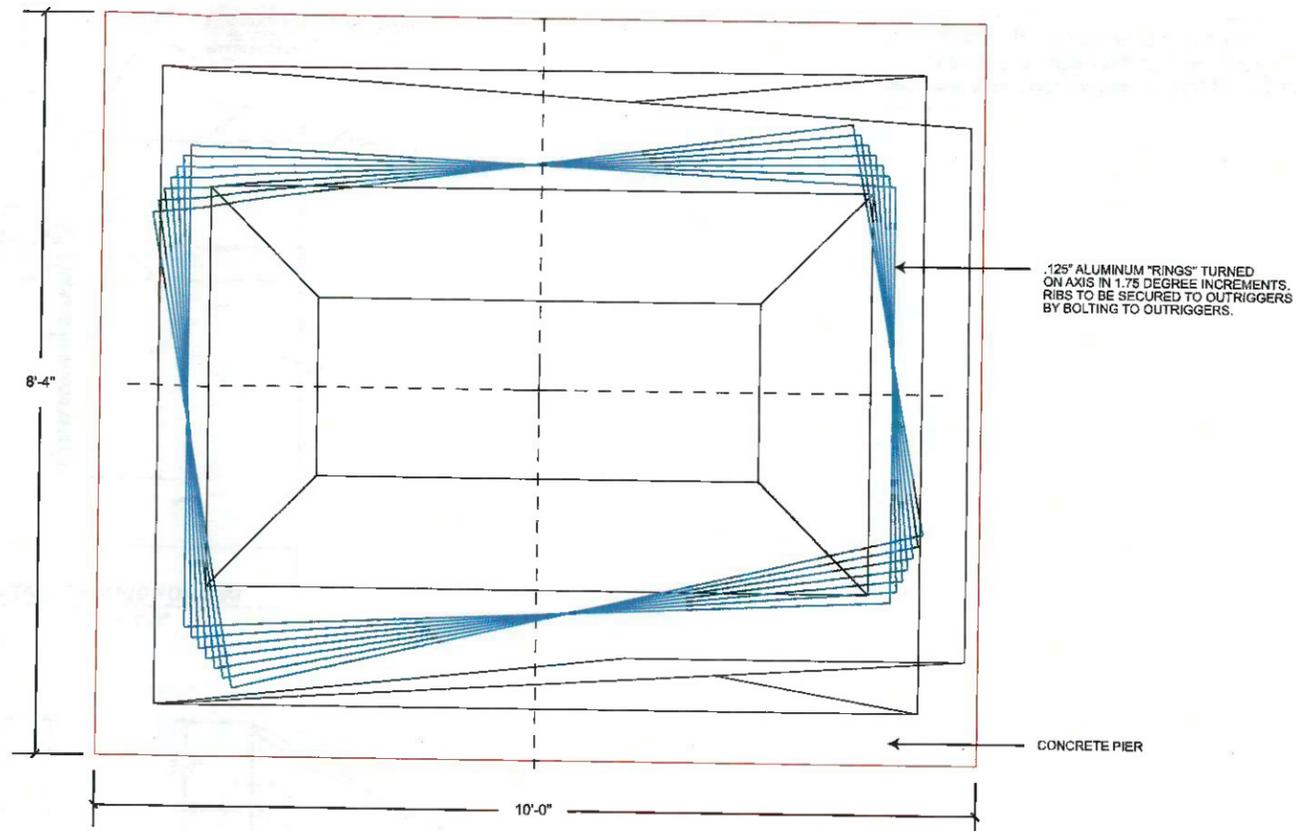


Date: 2-7-2022
Sheet #: 4 OF 7

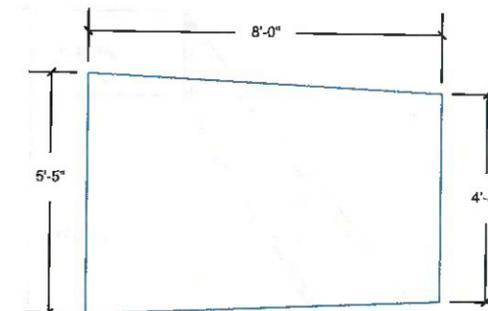
ME #: 55182



A TOP SECTION VIEW-FRAME (CONT.)
5 1/2" = 1'-0"

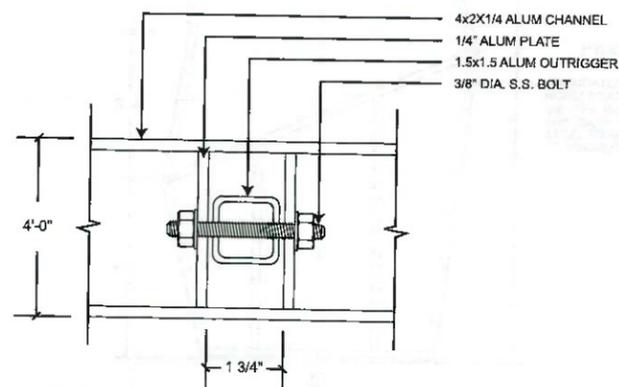


B TOP VIEW
5 1/2" = 1'-0"

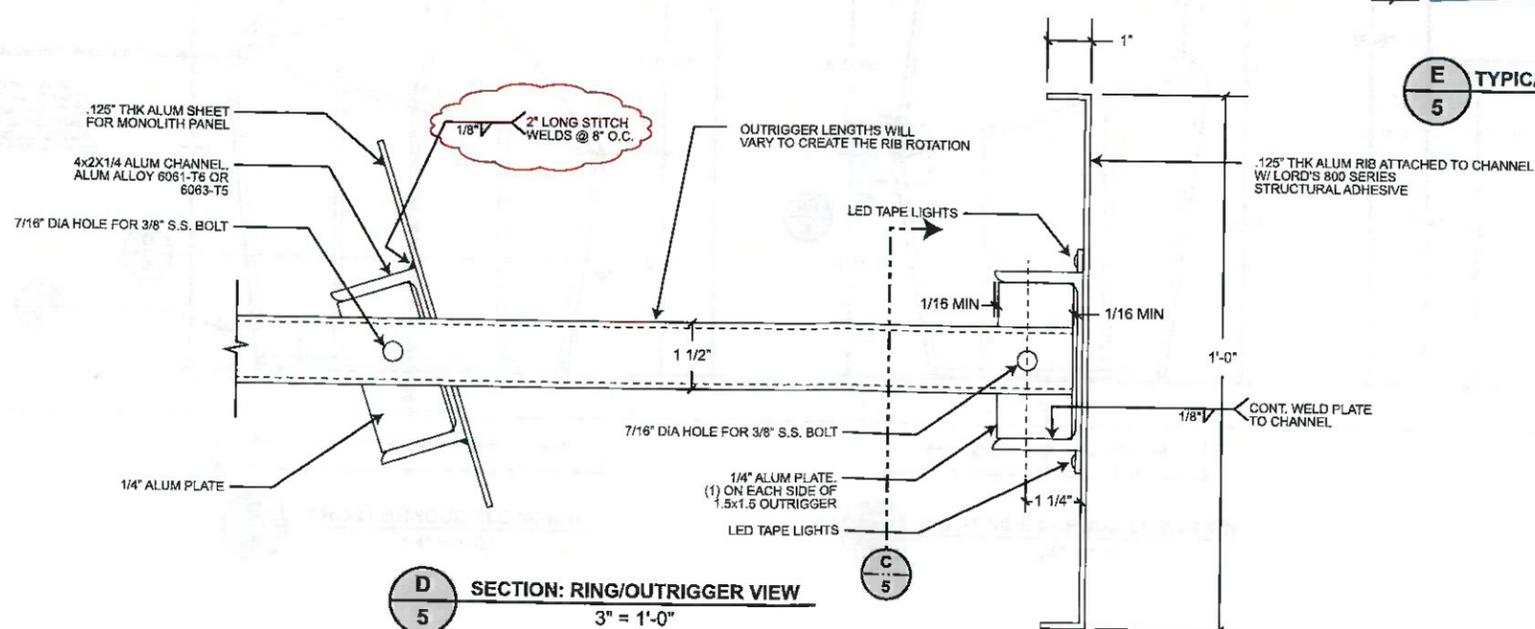


E TYPICAL RINGS OUTSIDE DIMENSIONS
5 1/4" = 1'-0"

Minimal Weld, Not Otherwise Specified to be 3/16" Fillet All Around.



C SECTION: OUTRIGGER/CHANNEL
5 3" = 1'-0"



D SECTION: RING/OUTRIGGER VIEW
5 3" = 1'-0"

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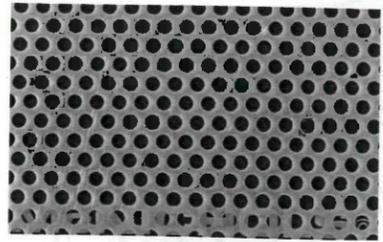
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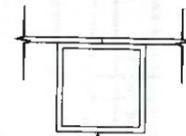
Date: 2-7-2022

Sheet #: 5 of 7

ME #: 55182



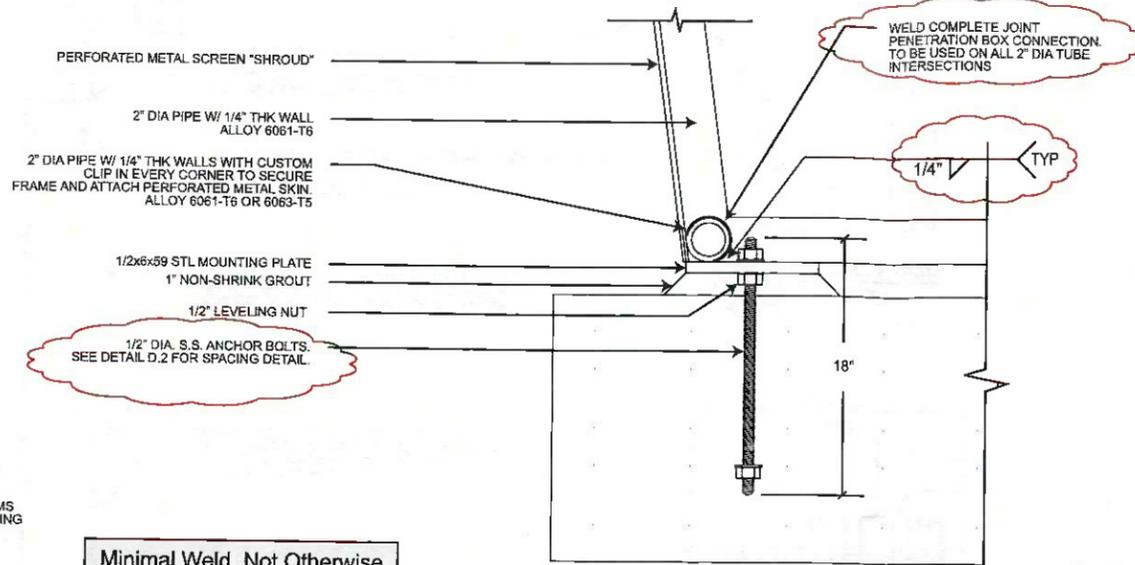
McNICHOLS PERFORATED METAL, ROUND HOLE, ALUM TYPE 3003-H14, .125 GAUGE, MILL FINISH, 3/8" HOLES ON 9/16" CENTERS, STAGGERED PATTERN, 40% OPEN AREA, SHEET 48" x 120".
TO BE PAINTED WITH CLEAR COAT.



NOTE:
USE MAXIMUM SIZE PERFORATED SHEETS TO MINIMIZE SEAMS. A 1x1x1/16" ALUMINUM TUBE SHALL BE INSTALLED BEHIND ALL SEAMS IN PERFORATED METAL PANELS NOT OCCURRING AT THE LOCATION OF 2" DIAMETER PIPES.

ADD ADDITIONAL BRACING (FRAMING) AS NECESSARY TO SUPPORT FINAL PERFORATED SHEET SELECTION

2x2x1/4" ALUM TUBE BACKUP AT SEAMS IN PERFORATED METAL



1/2" DIA. S.S. ANCHOR BOLTS. SEE DETAIL D.2 FOR SPACING DETAIL.

WELD COMPLETE JOINT PENETRATION BOX CONNECTION. TO BE USED ON ALL 2" DIA TUBE INTERSECTIONS

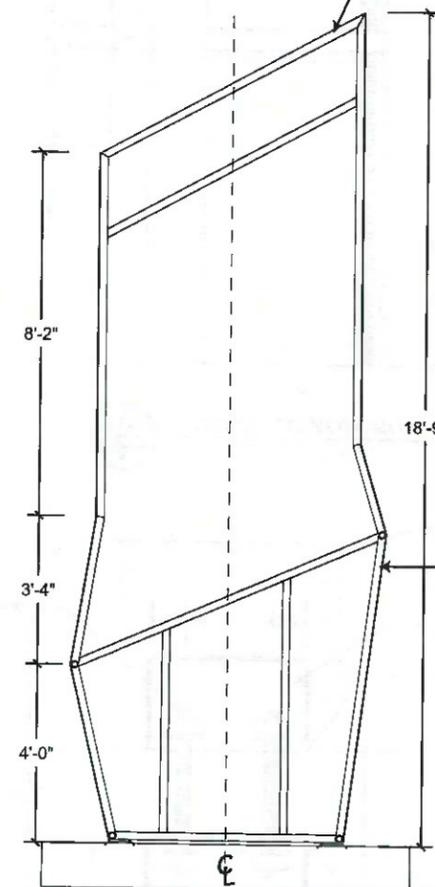
1/4" TYP

Minimal Weld, Not Otherwise Specified to be 3/16" Fillet All Around.

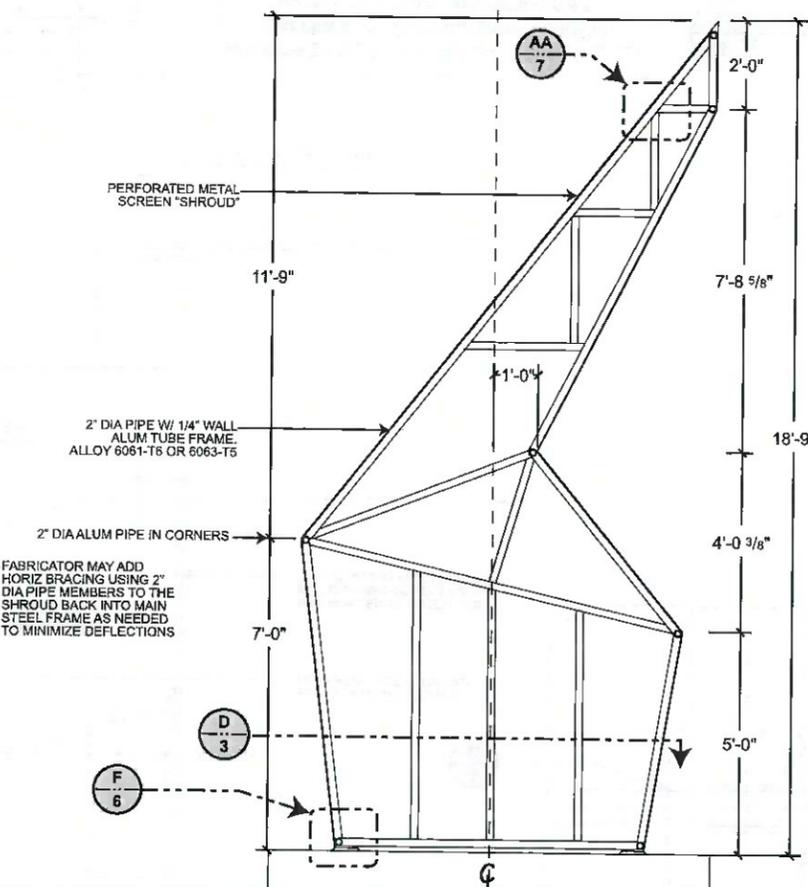
F
6
DETAIL: SHROUD FOOTING
1 1/2" = 1'-0"

G
6
DETAIL: SHROUD PANEL SEAM
1 1/2" = 1'-0"

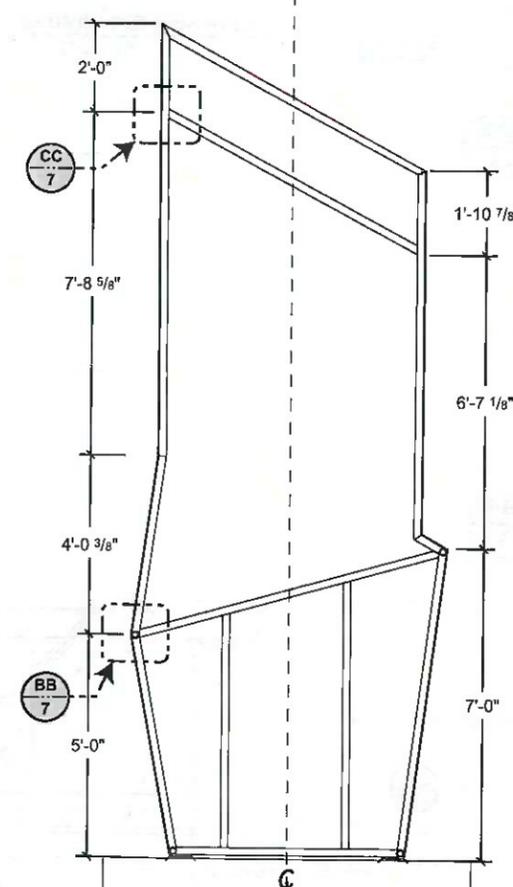
ALL WELDS ON SHROUD TUBULAR FRAME TO BE COMPLETE JOINT PENETRATION BOX CONNECTIONS



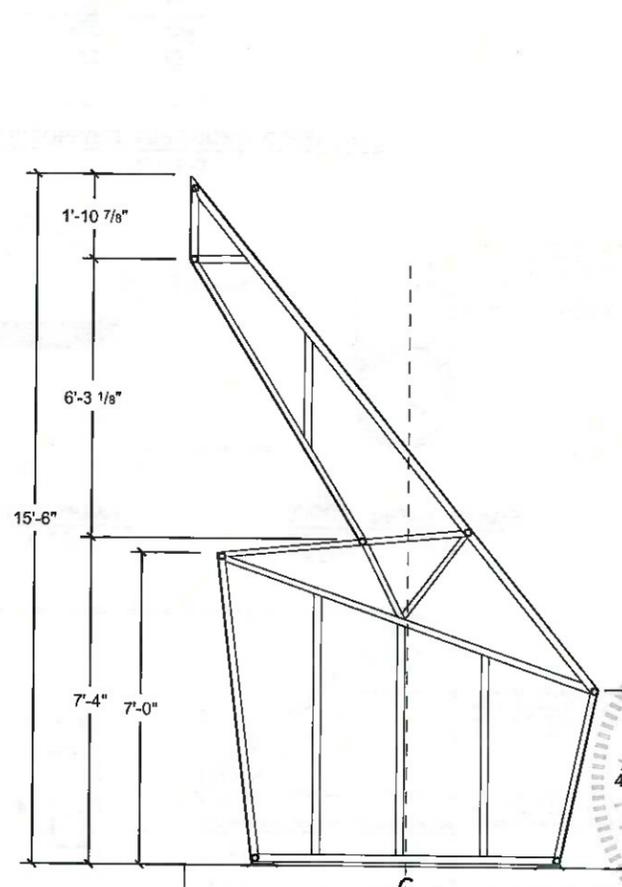
A
6
LEFT SIDE SHROUD ELEVATION
1/4" = 1'-0"



B
6
FRONT SHROUD ELEVATION
1/4" = 1'-0"



C
6
RIGHT SIDE SHROUD ELEVATION
1/4" = 1'-0"



D
6
REAR SHROUD ELEVATION
1/4" = 1'-0"

ASCE 7-16, 180 mph Wind, Exposure C
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Structural Sign Design
&
Engineering Services

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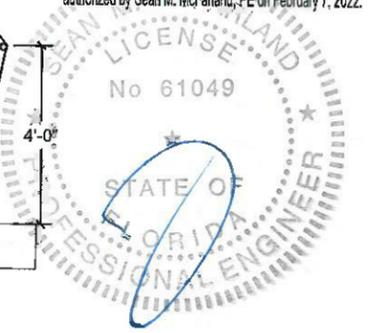
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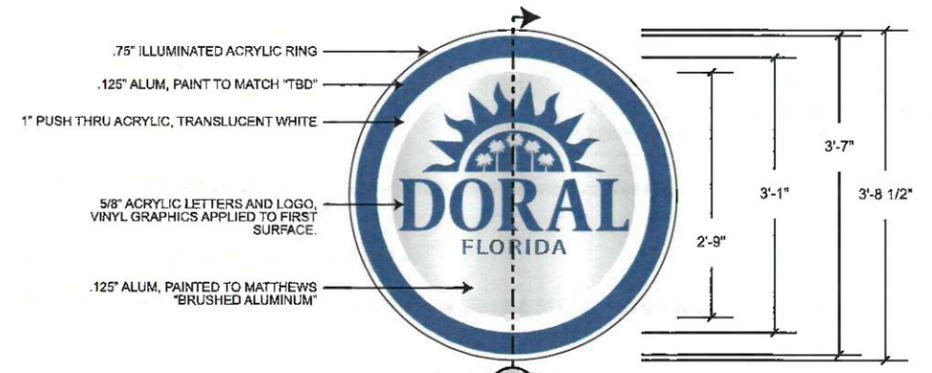
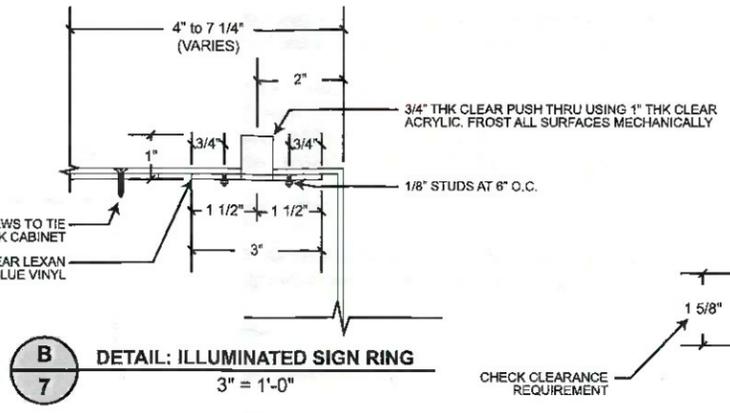
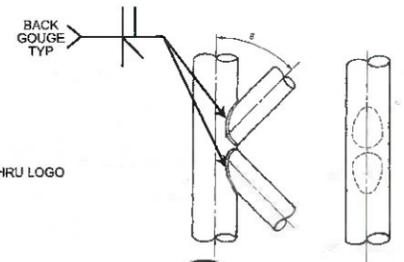
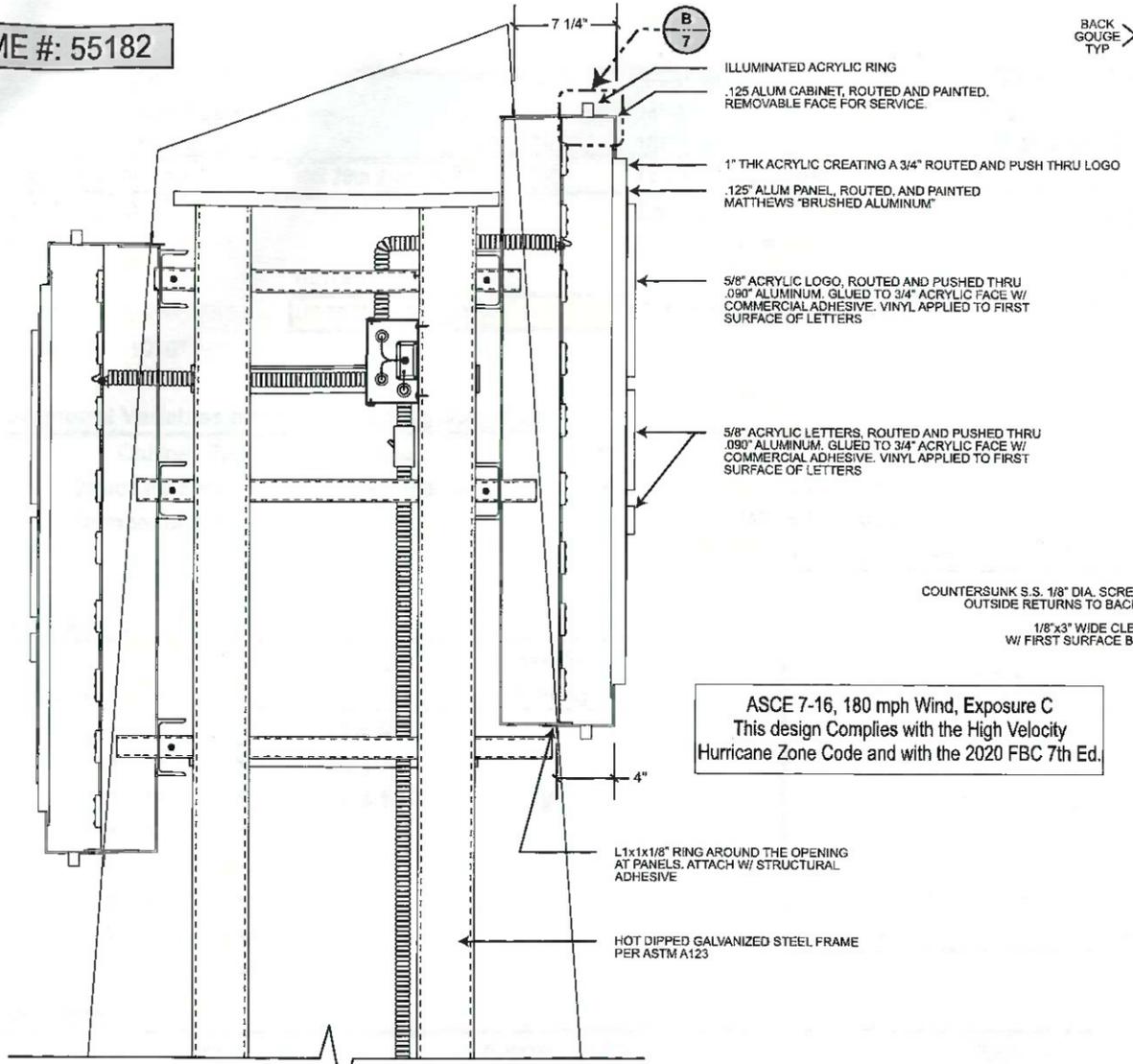
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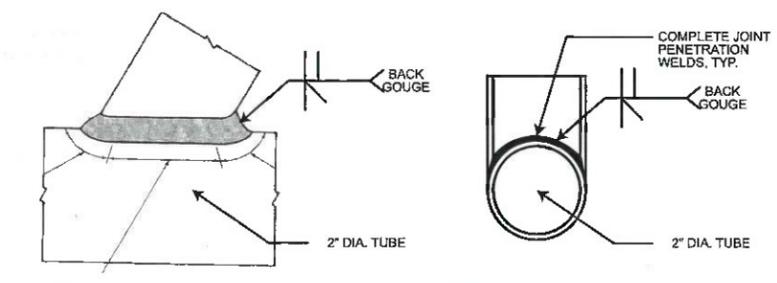
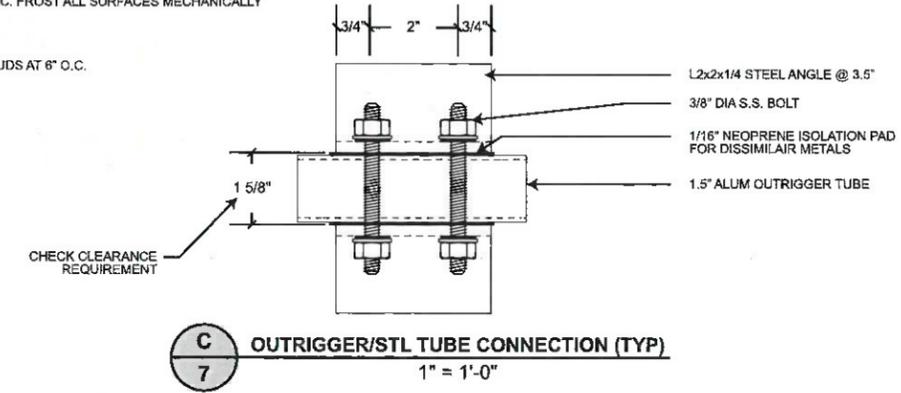


Date: 2-7-2022
Sheet #: 6 OF 7

ME #: 55182



Minimal Weld, Not Otherwise Specified to be 3/16" Fillet All Around.

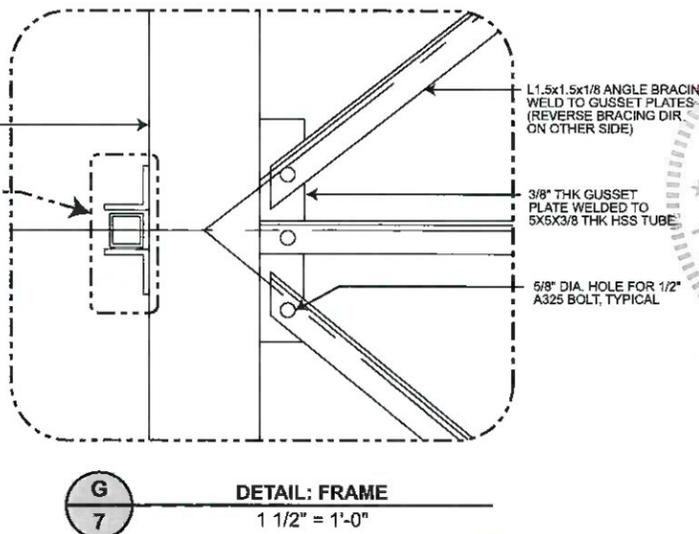
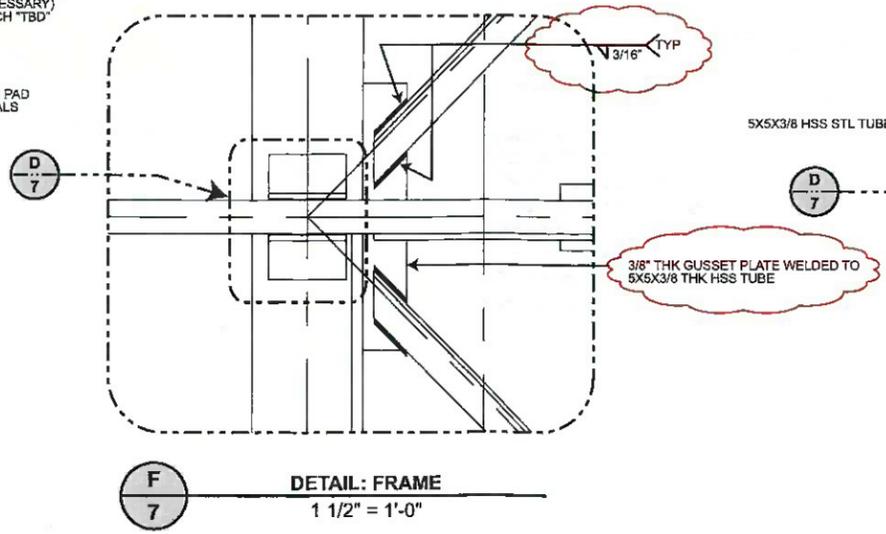
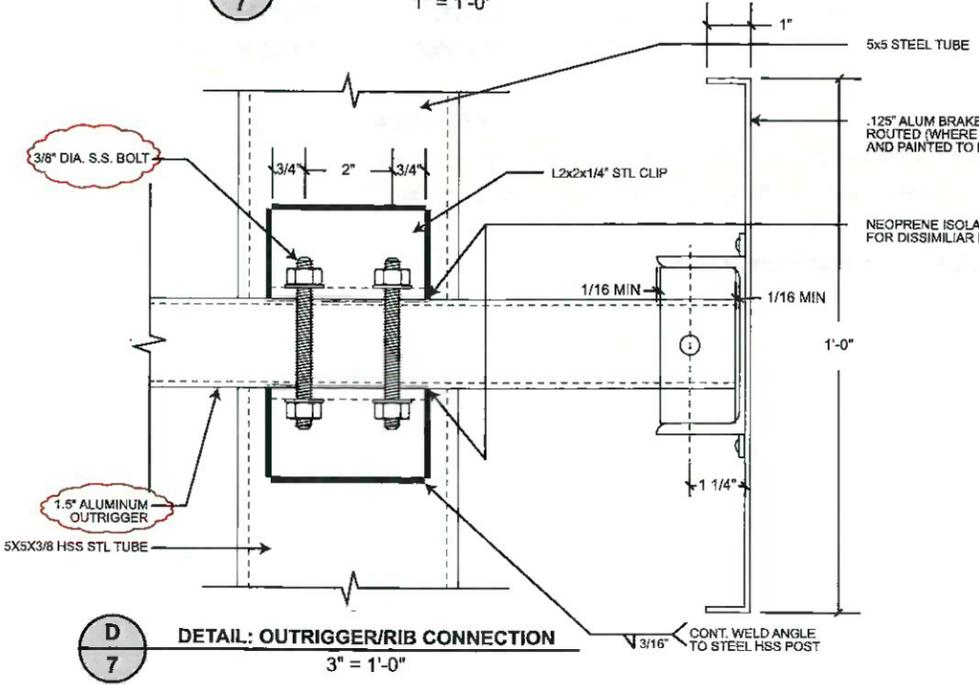


ASCE 7-16, 180 mph Wind, Exposure C
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A 7

DETAIL: SIGNBOX/MONOLITH

1" = 1'-0"



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&
Engineering Services

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Email: sean@mcfarland.com
Web: www.signstructures.com

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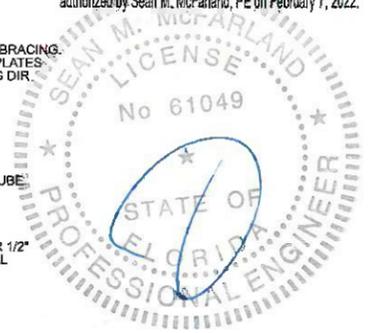
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Date: 2-7-2022
Sheet #: 7 of 7

**REPORT OF
GEOTECHNICAL EXPLORATION**

**DORAL BOULEVARD GATEWAY SIGNS
NW 36TH STREET AT PALMETTO EXPRESSWAY
DORAL, FLORIDA**

FOR

**CALVIN GIORDANO AND ASSOCIATES, INC.
1800 ELLER DRIVE, SUITE 600
FT. LAUDERDALE, FLORIDA 33316**

PREPARED BY

**NUTTING ENGINEERS OF FLORIDA, INC.
2051 NW 112TH AVE, SUITE 126
MIAMI, FLORIDA 33172**

PROJECT NO. : 101.142

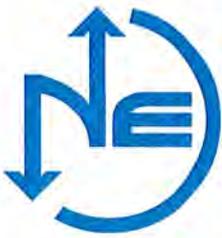
NOVEMBER 2017



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November 20, 2017

Ms. Gianni A. Feoli
Calvin Giordano & Associates, Inc.
1800 Eller Drive, Suite 600
Ft. Lauderdale, Florida 33316
Phone: (954) 921-7781
Fax: (954) 766-2776
Email: gfeoli@cgasolutions.com

Re: Report of Geotechnical Exploration
Doral Boulevard Gateway Signs
NW 36th Street and Palmetto Expressway
Doral, Florida

Dear Mr. Feoli:

Nutting Engineers of Florida, Inc. (NE), has performed a Geotechnical Exploration for the proposed gateway signs in Doral, Florida. This exploration was performed in accordance with the written authorization to proceed provided by Calvin Giordano & Associates, Inc. The purpose of this exploration was to obtain information concerning the subsurface soil conditions at the test locations in order to provide the soil stratum engineering properties. This report presents our findings.

PROJECT INFORMATION

Per your email dated December 5, 2014 and subsequent conversation, we understand that plans for this project include the construction of two new 20-foot tall gateway sign features along Doral Boulevard. We also understand tentative plans call for the installation of helical piers for the foundation system, but, if feasible, a shallow foundation system is preferred.

NE should be notified in writing by the client of any changes in the proposed construction along with a request to amend our foundation analysis and/or recommendations within this report as appropriate.

OFFICES
Palm Beach
Miami-Dade
St. Lucie



GENERAL SUBSURFACE CONDITIONS

Soil Survey Maps

As part of the geotechnical study, we reviewed the Department of Agriculture Soil Survey of Miami-Dade County. These SCS maps provide qualitative information about potential general shallow soil conditions in the project vicinity. This information was derived from approximately 6 ft. deep manual auger borings, aerial photo and surface feature interpretation at some point in the past (mid 1980's to early 1970's). The SCS data may or may not reflect actual current site conditions. A review of the Soil Survey for Dade County revealed that at the time the survey was conducted, the soils at the site were described as Urban land. This map unit is in areas where shopping centers, parking lots, streets, sidewalks, airports, large buildings, houses, and other structures cover more than 85 percent of the surface. The natural soil cannot be observed. The soils in open areas, mostly lawns, vacant lots, playgrounds, and parks are mainly Udorthents. We note that the maximum depth of the survey is approximately 6 feet.

Subsurface Exploration

NUTTING ENGINEERS OF FLORIDA, INC. performed two (2) Standard Penetration Test (SPT) borings (ASTM D-1586) to a depth of twenty feet below land surface. The locations of the test borings are indicated on the boring location plan presented in the Appendix of this report. The boring locations were identified in the field using approximate methods; namely, a measuring wheel and available surface controls. As such the soil boring locations should be considered to be approximate.

Test Boring Results

In general, the soil boring locations recorded a surface layer of topsoil underlain by soft to medium hard limestone fragments with varying amounts of sand to depths of approximately sixteen to seventeen feet below ground surface. Beneath this, medium dense fine sand was encountered to a depth of twenty feet, the maximum depth explored.

A detailed description of the soil/rock interlayering is given on the test boring logs in the Appendix.

Rock Note: The local rock formations such as limestone, sandstone, and cemented sand can vary significantly in hardness and porosity in both short vertical and horizontal distances. Also, the surface, bottom and intervening rock strata elevations may vary significantly over short distances. The upper 0 to 3 feet of the local rock at times is indurated creating very hard cap rock. The subsurface information provided by the test borings represent conditions encountered by a 2 inch diameter split spoon sampler and may not be representative of conditions between test borings. It is important to note that the split spoon sampler may pass through solution features within the rock fairly commonly and as such record lower blow counts than might be developed if passing

through the rock itself while also potentially failing to recover rock fragments. As such rock strata may occur at shallower and varied elevations than sometimes depicted in Standard Penetration Test (SPT) Boring reports. For these and other reasons SPT borings alone may provide a poor indicator of the ease or difficulty of excavation through recorded or latent rock strata.

Groundwater Information

The immediate groundwater level was measured at the boring locations at the time of drilling. The groundwater level was encountered at depths of approximately five and a half to six feet below the existing ground surface.

The immediate depth to groundwater measurements presented in this report may not provide a reliable indication of stabilized or more long term depth to groundwater at this site. Water table elevations can vary dramatically with time through rainfall, droughts, storm events, flood control activities, nearby surface water bodies, tidal activity, pumping and many other factors. For these reasons, this immediate depth to water data **should not** be relied upon alone for project design considerations.

GENERAL FOUNDATION DESIGN PARAMETERS

Based on the test boring result we have provided recommendations for the proposed sculpture foundation on either a shallow foundation system or a deep foundation system. Based on the loading requirements for the gateway signs, the project structural engineer will need to determine which foundation system is most appropriate for the gateway sign. We can provide additional analysis or review other foundation systems once more information becomes available to address the needs of the gateway sign, as warranted.

Shallow Foundation Analysis

Based on the results of the test borings, it is our opinion that shallow foundations may be designed for a maximum allowable soil bearing capacity of 2,500 pounds per square foot. The soils will need to be properly compacted as stated in this report.

Once plans are finalized for the proposed construction, a copy should be provided to Nutting Engineers for review to determine whether additional details or changes to our recommendations are warranted. All work should be completed in accordance with applicable building codes, other regulations as appropriate, and good standard local practice.

We recommend that the bottom of foundation be at least 12 inches below the lowest adjacent finished grade.

Foundation Settlement

Shallow foundations designed, supported, and constructed in accordance with the recommendations of this report are estimated to sustain a maximum total settlement of less than one inch. Differential settlement between adjacent foundations should be approximately one-half of the total settlement. Distortions that occur along the wall footings due to differential settlement should not be more than 1 in 500.

Site Preparation – Shallow Foundation

In the area of construction, any unsuitable soils as determined by the Geotechnical Engineer will need to be completely removed within the new foundation areas and to a lateral distance of at least two feet beyond the footprint limits, where practical. A Nutting Engineer's representative should be present to observe that the stripping operations are performed as we have discussed herein.

Upon approval by the geotechnical engineer, the foundation area should then be thoroughly compacted with a vibratory plate compactor operated no faster than at a slow walking pace. The compaction operations must be observed by a representative of Nutting Engineers.

In addition, the surface should also be compacted until a density equivalent to at least 98 percent of the modified Proctor maximum dry density (ASTM D-1557) is achieved to a depth of at least 12 inches below the compacted surface.

Fill needed to bring the area to construction grade should be placed in maximum loose lifts of 12 inches. Each lift should be thoroughly compacted until densities equivalent to at least 98 percent of the modified Proctor maximum dry density are uniformly obtained. Fill should consist of granular soil, with less than 10% passing the No. 200 sieve, free of rubble, organics (5% or less) clay, debris and other unsuitable material. The fill should have ASTM designation (D-2487) of GP, GW, SP, or SW, with a maximum particle size of no more than 3 inches or as otherwise approved by Nutting Engineers.

Sand which becomes loosened as a result of foundation excavation shall be recompacted to at least 98 percent of the modified proctor maximum dry density (ASTM-D1557), for a minimum depth of one (1) foot below the bottom of the footing depth, as determined by field density compaction tests prior to placing reinforcing steel and concrete. If the footing bearing materials become disturbed due to surface water resulting from precipitation and runoff, the unsuitable and disturbed soils should be over excavated and replaced with compacted granular fill meeting the above compaction requirements.

Deep Foundation Recommendations, if needed

If other deep foundation system options are desired our office should be notified in writing in order to investigate other possible options. We also looked into helical piers as a deep foundation option; however due to shallow depth of the natural limestone formation in the subsurface profile, helical piers are not feasible.

Micropiles

A company such as Dossourian Enterprises or Hayward Baker has appropriate drilling equipment that easily access the site to install the micro-piles for the project. This type of pile can support large structural loads, and as such, fewer piles will need to be installed compared to helical piers or other alternatives. We also note that a micropile system installation will result in smaller equipment onsite and the production of less spoils, which may be more conducive for the site.

Based on our review of the test borings performed for the site, utilizing a micro-pile with a minimum diameter of 7-5/8-inches that is uncased and fully bonded, we estimate that if the pile is installed to a depth of twenty-feet below the existing ground surface allowable compressive pile capacities on the order of 15 tons with an uplift capacity of 8 tons can be achieved with a factor of safety of 2.

We note that the micropiles will need to be battered in order to provide lateral capacity due to there small diameter size.

We recommend that at a minimum, one full length reinforcing steel bar utilizing centralizers be installed in each pile in order to verify that a pile of continuous cross section is constructed. Additional reinforcing may be required depending on the structural engineer's requirements.

The installation of the pile system should be monitored by a representative of Nutting Engineers on a full-time basis to verify that the engineering intent is accomplished.

GENERAL INFORMATION

Our client for this geotechnical evaluation was:

Calvin Giordano & Associates, Inc.
1800 Eller Drive, Suite 600
Ft. Lauderdale, Florida 33316

The contents of this report are for the exclusive use of the client, the client's design & construction team and governmental authorities for this specific project exclusively. Information

conveyed in this report shall not be used or relied upon by other parties or for other projects without the expressed written consent of Nutting Engineers of Florida, Inc.

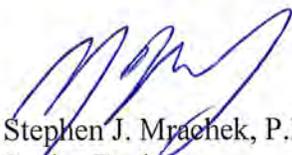
This report discusses geotechnical considerations for this site based upon observed conditions and our understanding of proposed construction for foundation support. Environmental issues including (but not limited to), soil and/or groundwater contamination are beyond our scope of service for this project.

If conditions are encountered which are not consistent with the findings presented in this report, or if proposed construction is moved from the location investigated, this office shall be notified immediately so that the condition or change can be evaluated and appropriate action taken.

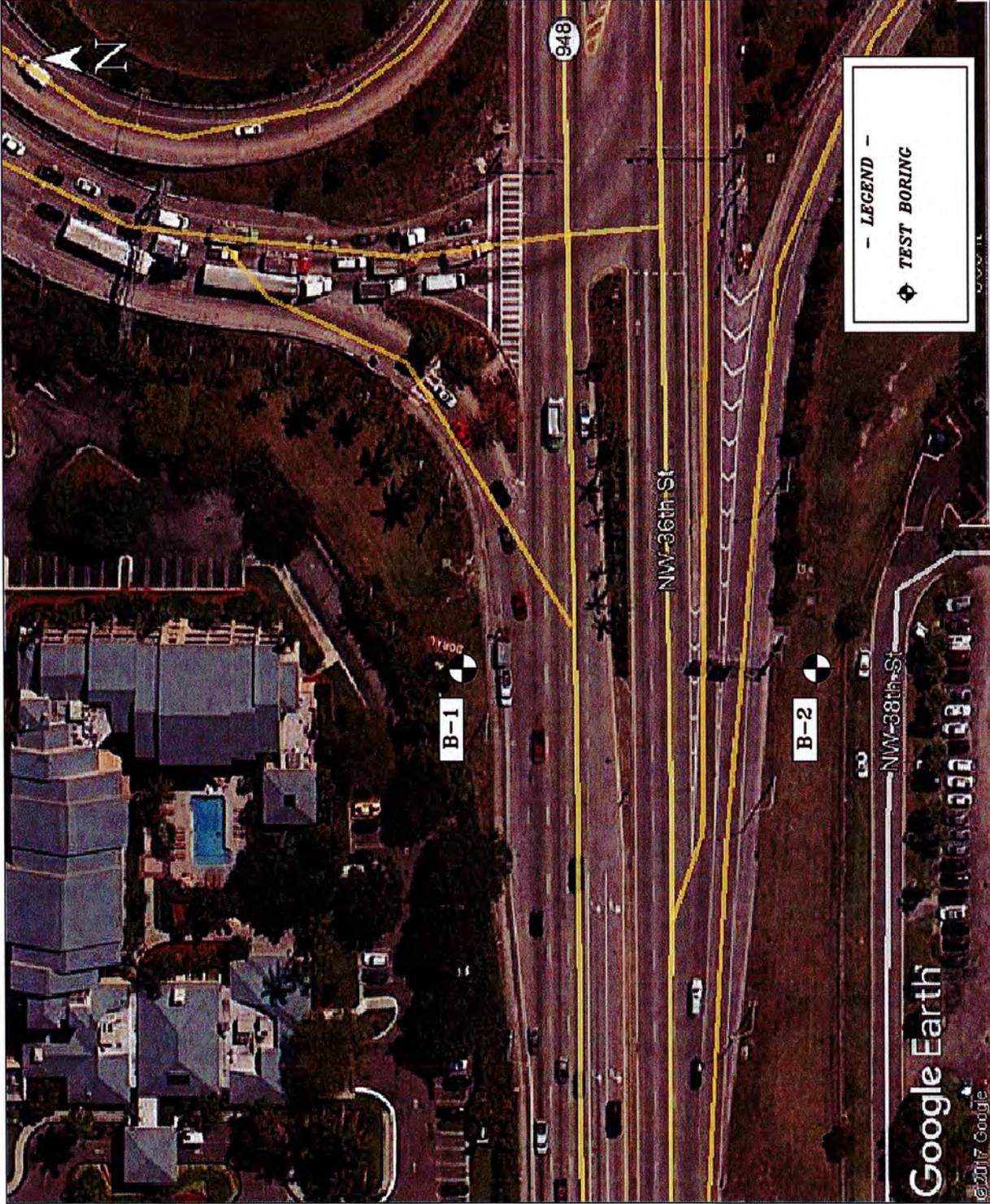
We appreciate the opportunity to be of service on this project. If we can be of any further assistance, or if you need additional information, please contact us at your convenience.

Sincerely,
NUTTING ENGINEERS OF FLORIDA, INC.


Adrian Ramirez
Engineering Intern

 11/22/2017
Stephen J. Mrachek, P.E. #70784
Senior Engineer

Attachments: Boring Location Plans
Boring Logs
Limitations of Liability
Soil Classification Criteria



DORAL BLVD GATEWAY SIGNS
 NW 36TH STREET & PALMETTO EXPRESSWAY
 DORAL, FLORIDA

APPROXIMATE
 TEST LOCATIONS

NOT TO SCALE

FIGURE 1



1310 Neptune Drive
 Boynton Beach Fl. 33426
 Telephone: 5617364900
 Fax: 5617379975

BORING NUMBER B-1

PAGE 1 OF 1

PROJECT NUMBER 101.142

CLIENT Calvin Giordano & Associates, Inc.

PROJECT NAME Doral Blvd. Gateway Signs

PROJECT LOCATION NW 36th Street at Palmetto Expressway

DATE STARTED 11/7/17 COMPLETED 11/7/17 SURFACE ELEVATION REFERENCE Same as road crown

DRILLING METHOD Standard Penetration Boring GROUND WATER LEVELS:

LOGGED BY D. Tyson CHECKED BY S. Mrachek ∇ AT TIME OF DRILLING 5.5 ft

APPROXIMATE LOCATION OF BORING As located on site plan

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	Blows	N-Value	▲ SPT N VALUE ▲				
						10	20	30	40	
						PL MC LL 20 40 60 80				
						□ FINES CONTENT (%) □				
						20 40 60 80				
0		Tan LIMESTONE FRAGMENTS and medium graded SAND								
			SS 1	10-19-37-40	56					>>▲
			SS 2	39-24-16-15	40					▲
5	∇		SS 3	12-11-10-8	21					▲
			SS 4	9-8-7-20	15					▲
			SS 5	19-15-10-11	25					▲
			SS 6	9-9-8-9	17					▲
			SS 7	9-10-10	20					▲
		Lt. brown fine SAND								
			SS 8	4-5-5	10					▲
20		Bottom of hole at 20.0 feet.								

TEST NUTTING BOREHOLE 2-101.142 CALVIN GIORDANO & ASSOCIATES, INC. - DORAL BLVD. GATEWAY SIGNS.GPJ GINT US.GDT 11/16/17

Disclaimer Nutting Engineers of Florida, Inc. accepts no liability for the consequences of the independent interpretation of drilling logs by others.



1310 Neptune Drive
 Boynton Beach Fl. 33426
 Telephone: 5617364900
 Fax: 5617379975

BORING NUMBER B-2

PROJECT NUMBER 101.142
 CLIENT Calvin Giordano & Associates, Inc. PROJECT NAME Doral Blvd. Gateway Signs
 PROJECT LOCATION NW 36th Street at Palmetto Expressway

DATE STARTED 11/7/17 COMPLETED 11/7/17 SURFACE ELEVATION REFERENCE Same as road crown
 DRILLING METHOD Standard Penetration Boring GROUND WATER LEVELS:
 LOGGED BY D. Tyson CHECKED BY S. Mrachek AT TIME OF DRILLING 5.7 ft
 APPROXIMATE LOCATION OF BORING As located on site plan

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	Blows	N-Value	▲ SPT N VALUE ▲			
						10	20	30	40
						PL MC LL 20 40 60 80			
						<input type="checkbox"/> FINES CONTENT (%) <input type="checkbox"/> 20 40 60 80			
0		Gray fine SANDY TOPSOIL Lt. brown LIMESTONE FRAGMENTS and medium slightly SILTY SAND	SS 1	6-8-10-11	18		▲		
			SS 2	10-9-8-7	17		▲		
5			SS 3	12-14-11-12	25			▲	
			SS 4	10-10-10-11	20		▲		
			SS 5	9-9-10-10	19		▲		
10			SS 6	8-9-11-11	20		▲		
			SS 7	7-8-9	17		▲		
15									
		Lt. brown fine SAND	SS 8	5-5-6	11		▲		
20		Bottom of hole at 20.0 feet.							

TEST NUTTING BOREHOLE 2-101.142 CALVIN GIORDANO & ASSOCIATES, INC. - DORAL BLVD. GATEWAY SIGNS.GPJ GINT US.GDT 11/16/17

LIMITATIONS OF LIABILITY

WARRANTY

We warrant that the services performed by Nutting Engineers of Florida, Inc. are conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession in our area currently practicing under similar conditions at the time our services were performed. **No other warranties, expressed or implied, are made.** While the services of Nutting Engineers of Florida, Inc. are a valuable and integral part of the design and construction teams, we do not warrant, guarantee or insure the quality, completeness, or satisfactory performance of designs, construction plans, specifications we have not prepared, nor the ultimate performance of building site materials or assembly/construction.

SUBSURFACE EXPLORATION

Subsurface exploration is normally accomplished by test borings; test pits are sometimes employed. The method of determining the boring location and the surface elevation at the boring is noted in the report. This information is represented in the soil boring logs and/or a drawing. The location and elevation of the borings should be considered accurate only to the degree inherent with the method used and may be approximate.

The soil boring log includes sampling information, description of the materials recovered, approximate depths of boundaries between soil and rock strata as encountered and immediate depth to water data. The log represents conditions recorded specifically at the location where and when the boring was made. Site conditions may vary through time as will subsurface conditions. The boundaries between different soil strata as encountered are indicated at specific depths; however, these depths are in fact approximate and dependent upon the frequency of sampling, nature and consistency of the respective strata. Substantial variation between soil borings may commonly exist in subsurface conditions. Water level readings are made at the time and under conditions stated on the boring logs. Water levels change with time, precipitation, canal level, local well drawdown and other factors. Water level data provided on soil boring logs shall not be relied upon for groundwater based design or construction considerations.

LABORATORY AND FIELD TESTS

Tests are performed in *general* accordance with specific ASTM Standards unless otherwise indicated. All criteria included in a given ASTM Standard are not always required and performed. Each test boring report indicates the measurements and data developed at each specific test location.

ANALYSIS AND RECOMMENDATIONS

The geotechnical report is prepared primarily to aid in the design of site work and structural foundations. Although the information in the report is expected to be sufficient for these purposes, it shall not be utilized to determine the cost of construction nor to stand alone as a construction specification. Contractors shall verify subsurface conditions as may be appropriate prior to undertaking subsurface work.

Report recommendations are based primarily on data from test borings made at the locations shown on the test boring reports. Soil variations commonly exist between boring locations. Such variations may not become evident until construction. Test pits sometimes provide valuable supplemental information that derived from soil borings. If variations are then noted, the geotechnical engineer shall be contacted in writing immediately so that field conditions can be examined and recommendations revised if necessary.

The geotechnical report states our understanding as to the location, dimensions and structural features proposed for the site. **Any significant changes of the site improvements or site conditions must be communicated in writing to the geotechnical engineer immediately** so that the geotechnical analysis, conclusions, and recommendations can be reviewed and appropriately adjusted as necessary.

CONSTRUCTION OBSERVATION

Construction observation and testing is an important element of geotechnical services. The geotechnical engineer's field representative (G.E.F.R.) is the "owner's representative" observing the work of the contractor, performing tests and reporting data from such tests and observations. **The geotechnical engineer's field representative does not direct the contractor's construction means, methods, operations or personnel.** The G.E.F.R. does not interfere with the relationship between the owner and the contractor and, except as an observer, does not become a substitute owner on site. The G.E.F.R. is responsible for his/her safety, but has no responsibility for the safety of other personnel at the site. The G.E.F.R. is an important member of a team whose responsibility is to observe and test the work being done and report to the owner whether that work is being carried out in general conformance with the plans and specifications. The enclosed report may be relied upon solely by the named client.

SOIL AND ROCK CLASSIFICATION CRITERIA

SAND/SILT

N-VALUE (bpf)	RELATIVE DENSITY
0 - 4	Very Loose
5 - 10	Loose
11 - 29	Medium
30 - 49	Dense
>50	Very dense
100	Refusal

CLAY/SILTY CLAY

N-VALUE (bpf)	UNCONFINED COMP. STRENGTH (tsf)	CONSISTENCY
<2	<0.25	v. Soft
2 - 4	0.25 - 0.50	Soft
5 - 8	0.50 - 1.00	Medium
9 - 15	1.00 - 2.00	Soft
16 - 30	2.00 - 4.00	v. Stiff
>30	>4.00	Hard

ROCK

N-VALUE (bpf)	RELATIVE HARDNESS	ROCK CHARACTERISTICS
$N \geq 100$	Hard to v. hard	Local rock formations vary in hardness from soft to very hard within short vertical and horizontal distances and often contain vertical solution holes of 3 to 36 inch diameter to varying depths and horizontal solution features. Rock may be brittle to split spoon impact, but more resistant to excavation.
$25 \leq N \leq 100$	Medium hard to hard	
$5 \leq N \leq 25$	Soft to medium hard	

PARTICLE SIZE

Boulder	>12 in.
Cobble	3 to 12 in.
Gravel	4.76 mm to 3 in.
Sand	0.074 mm to 4.76 mm
Silt	0.005 mm to 0.074 mm
Clay	<0.005 mm

DESCRIPTION MODIFIERS

0 - 5%	Slight trace
6 - 10%	Trace
11 - 20%	Little
21 - 35%	Some
>35%	And

Major Divisions		Group Symbols	Typical names	Laboratory classification criteria							
Coarse-grained soils (More than half of material is larger than No. 200 sieve size)	Gravels (More than half of coarse fraction is larger than No. 4 sieve size)	Clean gravels (Little or no fines)	GW	Well-graded gravels, gravel-sand mixtures, little or no fines	Determine percentages of sand and gravel from grain-size curve. Depending on percentage of fines (fraction smaller than No. 200 sieve size), coarse-grained soils are classified as follows: Less than five percent.....GW, GP, SW, SP More than 12 percent.....GM, GC, SM, SC 5 to 12 percent.....borderline cases requiring dual systems**	$C_u = \frac{D_{60}}{D_{10}}$ greater than 4; $C_z = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ between 1 and 3					
		Poorly graded gravels, gravel-sand mixtures, little or no fines	GP	Not meeting all gradation requirements for GW							
		Gravels with fines (Appreciable amount of fines)	GW*	<table border="1" style="font-size: small;"> <tr> <td>d</td> <td>Silty gravels, gravel-sand-silt mixtures</td> </tr> <tr> <td>u</td> <td></td> </tr> </table>		d	Silty gravels, gravel-sand-silt mixtures	u		Atterberg limits below "A" line or P.I. less than 4	Above "A" line with P.I. between 4 and 7 are borderline cases requiring use of dual symbols.
			d	Silty gravels, gravel-sand-silt mixtures							
	u										
	GC	Clayey gravels, gravel-sand-clay mixtures	Atterberg limits above "A" line with P.I. greater than 7								
	Sands (More than half of coarse fraction is smaller than No. 4 sieve size)	Clean sands (Little or no fines)	SW	Well-graded sands, gravelly sands, little or no fines		$C_u = \frac{D_{60}}{D_{10}}$ greater than 6; $C_z = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ between 1 and 3					
			SP	Poorly graded sands, gravelly sands, little or no fines		Not meeting all gradation requirements for SW					
		Sands with fines (Appreciable amount of fines)	SM*	<table border="1" style="font-size: small;"> <tr> <td>d</td> <td>Silty sands, sand-silt mixtures</td> </tr> <tr> <td>u</td> <td></td> </tr> </table>		d	Silty sands, sand-silt mixtures	u		Atterberg limits below "A" line or P.I. less than 4	Limits plotting in hatched zone with P.I. between 4 and 7 are borderline cases requiring use of dual system.
			d	Silty sands, sand-silt mixtures							
u											
SC		Clayey sands, sand-clay mixtures	Atterberg limits above "A" line with P.I. more than 7								
Fine-grained soils (More than half of material is smaller than No. 200 sieve size)	Silt and clays (Liquid limit less than 50)	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity	<p style="text-align: center;">Plasticity Chart</p>							
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy, clays, silty clays, lean clays								
		OL	Organic silts and organic silty clays of low plasticity								
	Silt and clays (Liquid limit greater than 50)	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts								
		CH	Inorganic clays or high plasticity, fat clays								
		OH	Organic clays of medium to high plasticity, organic silts								
	Highly organic soils	PT	Peat and other highly organic soils								