ADDENDUM NO. 1

THIS ADDENDUM FORMS A PART OF THE CONTRACT DOCUMENTS AND HEREBY MODIFIES THE ORIGINAL CONSTRUCTION DOCUMENTS DATED MARCH 18, 2021 RESPECTIVELY.

_____
NAME OF COMPANY

_____
BY

REGISTERED ARCHITECT
ROBERT E. LUKE
1921
STATE OF MISSISSIPPI
4-14-21

CLARIFICATION

Item #1 The Lauderdale County Public Safety Building Selective Demolition documents will be made available for reference only in electronic PDF format, email requests to be submitted to Carolyn Ladner with LPK Architects (cladner@lpkarchitects.com).

Item #2 Special Inspector as outlined in the specifications is by the Owner at the Owner's expense. Any retesting, additional trips, or additional costs due to fault of the Contractor will be at the expense of the Contractor. Scheduling and coordination will be the responsibility of the Contractor.

Item #3 The Mechanical/Plumbing and Electrical Prime Contractors will be responsible for the saw cut, demolition, disposal of concrete, excavations, backfill, and proper compaction for their respective trenches in the existing building. The General Trades contractor will be required to provide complete concrete placement including, but not limited to, concrete, reinforcement, dowels, termite treatment, finishing, and curing necessary for flooring.

Item #4 General Trades is responsible for providing temporary HVAC, if necessary, to maintain conditioning for the finishes in the building prior to startup of the permanent units and system. Permanent units and system will not be started up until the building is reasonably cleaned of sheetrock dust, dirt, and debris, with the expectation that major construction dust will be very limited and controlled.

Item #5 Per sheet A101 the 18K Four Post Vehicle Lift to be by BendPak HDS-18E (5175968) 18,000lb. Capacity / Four-Post Lift or equal to be provided by the General Trades Contractor.

Item #6 Areas of brick and CMU infill have been identified on Sheets A102 and A201. Repointing/repair is required in all areas where there is evident mortar loss and/or cracking. Contractor shall field verify all areas.

Item #7 The Custom Fabricated Brise Soleil shall be installed per the fabrication shop drawings.

Item #8 Melamine is acceptable to use on the concealed areas of the cabinet interior only.

Item #9 1/2" thick solid surface is acceptable, profile to be as indicated per contract documents.

PRE-BID MEETING

Item #10 PRE-BID MEETING NOTES
ADD: The attached pre-bid meeting notes dated April 7, 2021.

PROJECT MANUAL

Item #11 INDEX
REPLACE: INDEX dated March 18, 2021 with the attached revised INDEX dated April 14, 2021

Item #12 SECTION 001113 ADVERTISEMENT FOR BIDS
CHANGE: "The Lauderdale County Board of Supervisors will receive sealed competitive bids at the office of Lauderdale County Administrator, Chris Lafferty, 410 Constitution Avenue, 11th Floor, Meridian MS. 39301 until **10:00 a.m. CST on April 22, 2021** for the following:" to "The Lauderdale County Board of Supervisors will receive sealed competitive bids at the office of Lauderdale County Administrator, Chris Lafferty, 410 Constitution Avenue, 11th Floor, Meridian MS. 39301 until **2:00 p.m. CST on May 6, 2021** for the following:"

CLARIFICATION: **The bid date for this project has been rescheduled. All questions must be submitted by April 29, 2021 by close of business.**

Item #13 SECTION 004113.01 – GENERAL TRADES BID FORM
REPLACE: Section 004113.01 dated March 18, 2021 with the attached revised Section 004113.01 dated April 14, 2021.

Item #14 SECTION 004113.02 – MECHANICAL AND PLUMBING BID FORM
REPLACE: Section 004113.02 dated March 18, 2021 with the attached revised Section 004113.02 dated April 14, 2021.

Item #15 SECTION 004113.03 – FIRE PROTECTION BID FORM
REPLACE: Section 004113.03 dated March 18, 2021 with the attached revised Section 004113.03 dated April 14, 2021.

Item #16 SECTION 004113.04 – ELECTRICAL BID FORM
REPLACE: Section 004113.04 dated March 18, 2021 with the attached revised Section 004113.04 dated April 14, 2021.

Item #17 SECTION 004113.05 – SITE BID FORM

REPLACE: Section 004113.05 dated March 18, 2021 with the attached revised Section 004113.05 dated April 14, 2021.

Item #18 SECTION 004113.06 – GENERAL TRADES AND SITE COMBINATION BID FORM
ADD: The attached General Trades and Site Combination Bid Form dated April 14, 2021.

Item #19 SECTION 011001 – BID PACKAGE SUMMARY
REPLACE: Section 011001 dated March 18, 2021 with the attached revised Section 011001 dated April 14, 2021.

Item #20 SECTION 012300 - ALTERNATES
REPLACE: The attached SECTION 012300 dated April 14, 2021.

Item #21 SECTION 328400 – PLANTING IRRIGATION
ADD: The attached SECTION 328400 dated April 14, 2021.

Item #22 SECTION 329300 – PLANTS, SOIL & SOD
ADD: The attached SECTION 328400 dated April 14, 2021.

Item #23 APPENDIX
ADD: The attached Logistics Layout dated April 14, 2021.

DRAWINGS

Item #24 SHEET L100 – LANDSCAPE PLAN
ADD: New Sheet L100.

Item #25 SHEET 101 – LANDSCAPE DETAILS
ADD: New Sheet L101.

Item #26 SHEET I100 – IRRIGATION PLAN
ADD: New Sheet I100.

Item #27 SHEET I101 – IRRIGATION DETAILS
ADD: New Sheet I101.

Item #28 SHEET F101 – INTERIOR FINISH PLAN
ADD: Floor finish "SC" to be Seal Krete, clear-seal, premium low gloss sealer or equal, installed per manufacturer recommendations.

END OF ADDENDUM NO. 1

April 7, 2021

Lauderdale County
Public Safety Building
19-4894B

Pre-Bid Conference

AGENDA

1. **Introductions**

2. **Registration of Attendees**
   a. Attendees will verbally announce themselves for LPK to record.

   b. Notes from today's conference will be included in Addendum No. 1 to all registered plan holders.

3. **Owner's Comments**

4. **Construction Management Comments**

5. **Project Overview & Bid Information**
   a. Description of project: The project includes renovations and additions to an existing structure as shown or described in the construction documents.

   b. Bid date: The Lauderdale County Board of Supervisors will receive sealed competitive bids at the office of Lauderdale County Administrator, Chris Lafferty, 410 Constitution Avenue, 11th Floor, Meridian, MS 39301 until **10:00 a.m. CST on April 22, 2021**

   c. Completion time is 365 days from Notice to Proceed.

   d. Bid Packages:
      1. General Trades
         a) Allowances:
            1) General Trades Unforeseen Conditions: Include in the base bid the amount of Forty Thousand Dollars ($40,000.00) for unforeseen conditions.

      2. Mechanical and Plumbing
         a) Allowances:
            1) Mechanical and Plumbing Unforeseen Conditions: Include in the base bid the amount of Twenty Thousand Dollars ($20,000.00) for unforeseen conditions.

      3. Fire Protection
         a) Allowances:
            1) Fire Protection Unforeseen Conditions: Include in the base bid the amount of Twenty Thousand Dollars ($20,000.00) for unforeseen conditions.

4. Electrical
   a) Allowances:
      1) Electrical Unforeseen Conditions: Include in the base bid the amount of Twenty Thousand Dollars ($20,000.00) for unforeseen conditions.
5. Site
   a) Allowances:
      1) Site Unforeseen Conditions: Include in the base bid the amount of Twenty Thousand Dollars ($20,000.00) for unforeseen conditions.

e. Alternates:
   1. None Currently

f. Addendum process, timing, and known items: The deadline for submitting questions/clarifications to LPK to be addressed by Addenda is Friday, April 15, 2021 by 10:00 am. All questions must be submitted to the following email address: cladner@lpkarchitects.com, and barmstrong@lpkarchitects.com

g. Known addenda items and other clarifications.

6. Open Discussion

a. The Public Safety Building - Selective Demolition package scope of work will be completed prior to the NTP is issued.

b. The Public Safety Building - Selective Demolition package will be made available upon request for reference only.

c. Each bid package scope of work is as described in the specifications section 011001 Bid Package Summary.

d. It was noted that if submitting via Central Bidding, we recommend accounting for the time it takes for the bid to upload.

e. A clarification will be issued in a future addendum regarding the geo-technical requirements of the area for the PSB Garage (276).

f. Special inspections will be the responsibility of the Owner, a clarification will be issued in a future addendum.

g. Yates will be using the old Fred's building as their jobsite office; Contactors will be welcome to use area for internet access and meetings.

h. A logistics plan will be issued in a future addendum.

i. A project schedule will be coordinated with the 5 awarded contractors.

j. Feedback on the 365 project time is encouraged.

k. Project Alternates will be issued in an Addendum.

l. The electrical bid package is to include additional temporary power/lighting as required.

LPK architects

Pre-Bid Conference

Lauderdale County
Public Safety Building
19-4894B

April 7, 2021 | 10:00 AM

Name	Company	Phone Number	Email Address
Jimmy Reynolds	YATES	601-504-7243	Jreynolds@wgyates.com
Mike Wynne	SCHULTZ & WYNNE	601-982-3313	mwynne@sweems.com
Justin Kinard	Cooper Construction Services	601-479-7723	justin.kinard@aol.com
Greg Vaughn	Greg Vaughn Painting	601-513-7804	gvpaintingLLC@gmail.com
Bennett Douglas	Century Construction	662-523-8475	bdouglas@centurycg.com
Royce Blackleidge	LARRY J SUMRALL CONT.	601-649-4490	royce@ljsumrall.com
Seal A. Sumrall	LARRY J. SUMRALL CONT.	601-649-4490	seal@ljsumrall.com
Josh Sisson	Construction Services Inc	601-604-2316	jsisson@csiusa1.com
Kelsey Trosclair	Hernandez Consulting	504.615.8441	bid@hernandezconsulting.com
Roland Terry	CSI	601.479.9240	rterry@csiusa1.com
Jeff Waggoner	CSI	601.513.6141	jwaggoner@csiusa1.com
JUSTIN MCDONALD	YATES	601.562.8018	jmcdonald@wgyates.com
Jason Grossi	ERG	601-362-3552	jgrossi@ergms.com
KENNY MCGRATH	SPENCER ENG.	601-982-7766	kmcgrath@spencerengineers.com
Carolyn Ladner	LPK Architects	228-861-8581	cladner@lpkarchitects.com
Jim Smith	LPK Architects	601-693-9990	jsmith@lpkarchitects.com
Benji Armstrong	LPK Architects	601-693-9990	barmstrong@lpkarchitects.com

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NOT APPLICABLE

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NOT APPLICABLE

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NOT APPLICABLE

APPENDIX (SUPPLEMENTAL DOCUMENTS)

GETECHNICAL REPORT DATED JANUARY 2021
LOGISTICS LAYOUT

END OF INDEX

SECTION 004113.01 – GENERAL TRADES BID FORM

To: Lauderdale County Board of Supervisors
Meridian, MS

Re: Project Number: 19-4894B

The undersigned, having examined the Contract Documents and being familiar with the contents contained therein all of which are on file in the office of LPK Architects, P.A., Meridian, MS, does hereby propose to furnish and deliver all labor, materials, and equipment necessary for the successful completion of the Contract on which we submit a bid according to Plans and Specifications as follows:

Lauderdale County Public Safety Building:

BASE BID AMOUNT

$_____Dollars _____
Words

ALTERNATES

ALTERNATE #1: Replace CMU perimeter wall and access gates at rear of PSB with 10'-0" high vinyl coated chain link w/ razor wire and screening with automatic gates. Delete 8'-0" high aluminum picket fence, gates and operators in front of PSB (secure deputy parking area).

ADD ( ) DEDUCT ( ) N/A ( )

$_____Dollars _____
Words

ALTERNATE #2: Remove PSB Garage and CID covered parking at rear of PSB. Concrete slab at PSB Garage to be replaced with concrete paving. Stairs at rear exit to remain.

ADD ( ) DEDUCT ( ) N/A ( )

$_____Dollars _____
Words

ALTERNATE #3: Remove new construction (steel framing / concrete slab) at Mezzanine M001. Existing stairs to remain; provide flooring/walls for access from top of existing stairs to opening in existing Mezzanine.

ADD ( ) DEDUCT ( ) N/A ( )

$_____Dollars _____
Words

ALTERNATE #4: Remove LEMA/E-911/VFD from scope of project. Rough-in's to remain; Training Rooms to remain.

ADD ( ) DEDUCT ( ) N/A ( )
$_____Dollars _____
Words

ALTERNATE #5: Remove all landscape and irrigation from the contract, however, sleeves shall be installed as shown on the irrigation plan as a part of the base bid.

ADD ( ) DEDUCT ( ) N/A ( )
$_____Dollars _____
Words

COMPLETION TIME: The undersigned agrees that work to be performed under this contract must be substantially complete within 200 Days. Substantial completion may be established separately for each project. Prior to award, the Contractor shall provide schedule documentation acceptable to the Construction Manager within 10 calendar days to develop the Master Project Schedule that best meets the Project Schedule Requirements as determined by the Owner. Contractors agree that the Master Project Schedule as approved by the Construction Manager, Architect, and the Owner will be the Master Project Schedule for the Project. Contractors shall cooperate fully with Owner forces or separate contractors so work on those contracts may be carried out smoothly, without interfering with or delaying the Work.

ADDENDA: Receipt of the following Addenda is acknowledged:

No.____Date_____ No.____Date_____

No.____Date_____ No.____Date_____

No.____Date_____ No.____Date_____

No.____Date_____ No.____Date_____

No.____Date_____ No.____Date_____

ACCEPTANCE: I agree to hold this proposal open for acceptance for forty-five (45) days after the bid date, and certify that I am authorized to enter my firm into a binding contact if this proposal is accepted.

Signature_____Date _____

Name and Title _____

Name of Business _____

Address _____

City/State/Zip Code _____

Phone/Fax _____

Certificate of Responsibility Numbers(s):_____

DO NOT ENCLOSE THIS PAGE WITH BID

A. Submittal: Enclose the following in envelope.
   1. Proposal in duplicate on form furnished
   2. Bid Security.
   3. Addenda.

B. Envelope:

Seal envelope and mark on face:

Contractor's name and address
(upper left corner)

Certificate of Responsibility #
(lower left hand corner)

END OF SECTION 004113.01

SECTION 004113.02 – MECHANICAL AND PLUMBING BID FORM

To: Lauderdale County Board of Supervisors
Meridian, MS

Re: Project Number: 19-4894B

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Lauderdale County Public Safety Building:

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Words

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$_____Dollars _____
Words

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$_____Dollars _____
Words

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$_____Dollars _____
Words

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No.____Date_____ No.____Date_____

No.____Date_____ No.____Date_____

No.____Date_____ No.____Date_____

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Signature_____Date _____

Name and Title _____

Name of Business _____

Address _____

City/State/Zip Code _____

Phone/Fax _____

Certificate of Responsibility Numbers(s):_____

DO NOT ENCLOSE THIS PAGE WITH BID

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   3. Addenda.

B. Envelope:

Seal envelope and mark on face:

Contractor's name and address
(upper left corner)

Certificate of Responsibility #
(lower left hand corner)

END OF SECTION 004113.02

SECTION 004113.03 – FIRE PROTECTION BID FORM

To: Lauderdale County Board of Supervisors
Meridian, MS

Re: Project Number: 19-4894B

The undersigned, having examined the Contract Documents and being familiar with the contents contained therein all of which are on file in the office of LPK Architects, P.A., Meridian, MS, does hereby propose to furnish and deliver all labor, materials, and equipment necessary for the successful completion of the Contract on which we submit a bid according to Plans and Specifications as follows:

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ADD ( ) DEDUCT ( ) N/A ( )

$_____Dollars _____
Words

ALTERNATE #2: Remove PSB Garage and CID covered parking at rear of PSB. Concrete slab at PSB Garage to be replaced with concrete paving. Stairs at rear exit to remain.

ADD ( ) DEDUCT ( ) N/A ( )

$_____Dollars _____
Words

ALTERNATE #3: Remove new construction (steel framing / concrete slab) at Mezzanine M001. Existing stairs to remain; provide flooring/walls for access from top of existing stairs to opening in existing Mezzanine.

ADD ( ) DEDUCT ( ) N/A ( )

$_____Dollars _____
Words

ALTERNATE #4: Remove LEMA/E-911/VFD from scope of project. Rough-in's to remain; Training Rooms to remain.

ADD ( ) DEDUCT ( ) N/A ( )
$_____Dollars _____
Words

ALTERNATE #5: Remove all landscape and irrigation from the contract, however, sleeves shall be installed as shown on the irrigation plan as a part of the base bid.

ADD ( ) DEDUCT ( ) N/A ( )
$_____Dollars _____
Words

COMPLETION TIME: The undersigned agrees that work to be performed under this contract must be substantially complete within 200 Days. Substantial completion may be established separately for each project. Prior to award, the Contractor shall provide schedule documentation acceptable to the Construction Manager within 10 calendar days to develop the Master Project Schedule that best meets the Project Schedule Requirements as determined by the Owner. Contractors agree that the Master Project Schedule as approved by the Construction Manager, Architect, and the Owner will be the Master Project Schedule for the Project. Contractors shall cooperate fully with Owner forces or separate contractors so work on those contracts may be carried out smoothly, without interfering with or delaying the Work.

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ACCEPTANCE: I agree to hold this proposal open for acceptance for forty-five (45) days after the bid date, and certify that I am authorized to enter my firm into a binding contact if this proposal is accepted.

Signature_____Date _____

Name and Title _____

Name of Business _____

Address _____

City/State/Zip Code _____

Phone/Fax _____

Certificate of Responsibility Numbers(s):_____

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B. Envelope:

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Contractor's name and address
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Certificate of Responsibility #
(lower left hand corner)

END OF SECTION 004113.03

SECTION 004113.04 – ELECTRICAL BID FORM

To: Lauderdale County Board of Supervisors
Meridian, MS

Re: Project Number: 19-4894B

The undersigned, having examined the Contract Documents and being familiar with the contents contained therein all of which are on file in the office of LPK Architects, P.A., Meridian, MS, does hereby propose to furnish and deliver all labor, materials, and equipment necessary for the successful completion of the Contract on which we submit a bid according to Plans and Specifications as follows:

Lauderdale County Public Safety Building:

BASE BID AMOUNT

$_____Dollars _____
Words

ALTERNATES

ALTERNATE #1: Replace CMU perimeter wall and access gates at rear of PSB with 10'-0" high vinyl coated chain link w/ razor wire and screening with automatic gates. Delete 8'-0" high aluminum picket fence, gates and operators in front of PSB (secure deputy parking area).

ADD ( ) DEDUCT ( ) N/A ( )

$_____Dollars _____
Words

ALTERNATE #2: Remove PSB Garage and CID covered parking at rear of PSB. Concrete slab at PSB Garage to be replaced with concrete paving. Stairs at rear exit to remain.

ADD ( ) DEDUCT ( ) N/A ( )

$_____Dollars _____
Words

ALTERNATE #3: Remove new construction (steel framing / concrete slab) at Mezzanine M001. Existing stairs to remain; provide flooring/walls for access from top of existing stairs to opening in existing Mezzanine.

ADD ( ) DEDUCT ( ) N/A ( )

$_____Dollars _____
Words

ALTERNATE #4: Remove LEMA/E-911/VFD from scope of project. Rough-in's to remain; Training Rooms to remain.

ADD ( ) DEDUCT ( ) N/A ( )
$_____Dollars _____
Words

ALTERNATE #5: Remove all landscape and irrigation from the contract, however, sleeves shall be installed as shown on the irrigation plan as a part of the base bid.

ADD ( ) DEDUCT ( ) N/A ( )
$_____Dollars _____
Words

COMPLETION TIME: The undersigned agrees that work to be performed under this contract must be substantially complete within 200 Days. Substantial completion may be established separately for each project. Prior to award, the Contractor shall provide schedule documentation acceptable to the Construction Manager within 10 calendar days to develop the Master Project Schedule that best meets the Project Schedule Requirements as determined by the Owner. Contractors agree that the Master Project Schedule as approved by the Construction Manager, Architect, and the Owner will be the Master Project Schedule for the Project. Contractors shall cooperate fully with Owner forces or separate contractors so work on those contracts may be carried out smoothly, without interfering with or delaying the Work.

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Signature_____Date _____

Name and Title _____

Name of Business _____

Address _____

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B. Envelope:

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Contractor's name and address
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Certificate of Responsibility #
(lower left hand corner)

END OF SECTION 004113.04

SECTION 004113.05 – SITE BID FORM

To: Lauderdale County Board of Supervisors
Meridian, MS

Re: Project Number: 19-4894B

The undersigned, having examined the Contract Documents and being familiar with the contents contained therein all of which are on file in the office of LPK Architects, P.A., Meridian, MS, does hereby propose to furnish and deliver all labor, materials, and equipment necessary for the successful completion of the Contract on which we submit a bid according to Plans and Specifications as follows:

Lauderdale County Public Safety Building:

BASE BID AMOUNT

$_____Dollars _____
Words

ALTERNATES

ALTERNATE #1: Replace CMU perimeter wall and access gates at rear of PSB with 10'-0" high vinyl coated chain link w/ razor wire and screening with automatic gates. Delete 8'-0" high aluminum picket fence, gates and operators in front of PSB (secure deputy parking area).

ADD ( ) DEDUCT ( ) N/A ( )

$_____Dollars _____
Words

ALTERNATE #2: Remove PSB Garage and CID covered parking at rear of PSB. Concrete slab at PSB Garage to be replaced with concrete paving. Stairs at rear exit to remain.

ADD ( ) DEDUCT ( ) N/A ( )

$_____Dollars _____
Words

ALTERNATE #3: Remove new construction (steel framing / concrete slab) at Mezzanine M001. Existing stairs to remain; provide flooring/walls for access from top of existing stairs to opening in existing Mezzanine.

ADD ( ) DEDUCT ( ) N/A ( )

$_____Dollars _____
Words

ALTERNATE #4: Remove LEMA/E-911/VFD from scope of project. Rough-in's to remain; Training Rooms to remain.

ADD ( ) DEDUCT ( ) N/A ( )
$_____Dollars _____
Words

ALTERNATE #5: Remove all landscape and irrigation from the contract, however, sleeves shall be installed as shown on the irrigation plan as a part of the base bid.

ADD ( ) DEDUCT ( ) N/A ( )
$_____Dollars _____
Words

COMPLETION TIME: The undersigned agrees that work to be performed under this contract must be substantially complete within 200 Days. Substantial completion may be established separately for each project. Prior to award, the Contractor shall provide schedule documentation acceptable to the Construction Manager within 10 calendar days to develop the Master Project Schedule that best meets the Project Schedule Requirements as determined by the Owner. Contractors agree that the Master Project Schedule as approved by the Construction Manager, Architect, and the Owner will be the Master Project Schedule for the Project. Contractors shall cooperate fully with Owner forces or separate contractors so work on those contracts may be carried out smoothly, without interfering with or delaying the Work.

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Signature_____Date _____

Name and Title _____

Name of Business _____

Address _____

City/State/Zip Code _____

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END OF SECTION 004113.05

SECTION 004113.01 – **GENERAL TRADES AND SITE COMBINATION BID FORM**

To: Lauderdale County Board of Supervisors
Meridian, MS

Re: Project Number: 19-4894B

The undersigned, having examined the Contract Documents and being familiar with the contents contained therein all of which are on file in the office of LPK Architects, P.A., Meridian, MS, does hereby propose to furnish and deliver all labor, materials, and equipment necessary for the successful completion of the Contract on which we submit a bid according to Plans and Specifications as follows:

Lauderdale County Public Safety Building:

BASE BID AMOUNT **(For all General Trades and Site Work)**

$_____Dollars _____
Words

ALTERNATES

ALTERNATE #1: Replace CMU perimeter wall and access gates at rear of PSB with 10'-0" high vinyl coated chain link w/ razor wire and screening with automatic gates. Delete 8'-0" high aluminum picket fence, gates and operators in front of PSB (secure deputy parking area).

ADD ( ) DEDUCT ( ) N/A ( )

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Words

ALTERNATE #2: Remove PSB Garage and CID covered parking at rear of PSB. Concrete slab at PSB Garage to be replaced with concrete paving. Stairs at rear exit to remain.

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Words

ALTERNATE #3: Remove new construction (steel framing / concrete slab) at Mezzanine M001. Existing stairs to remain; provide flooring/walls for access from top of existing stairs to opening in existing Mezzanine.

ADD ( ) DEDUCT ( ) N/A ( )

$_____Dollars _____
Words

ALTERNATE #4: Remove LEMA/E-911/VFD from scope of project. Rough-in's to remain; Training Rooms to remain.

ADD ( ) DEDUCT ( ) N/A ( )
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Words

ALTERNATE #5: Remove all landscape and irrigation from the contract, however, sleeves shall be installed as shown on the irrigation plan as a part of the base bid.

ADD ( ) DEDUCT ( ) N/A ( )
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Words

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Signature_____Date _____

Name and Title _____

Name of Business _____

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END OF SECTION 004113.06

SECTION 011001 – BID PACKAGE SUMMARY (REVISED 4.14.21)

PART 1- GENERAL

1.01 SUMMARY

A. WORK EXECUTED IN THE CONTRACT

1. The Scope of Work included herein will be required of the selected Bidder. This information is complementary with the requirements of the other bid documents. The Scope of Work identified herein will become part of the Agreement between the Contractor and the Owner. The Scope of Work listed below shall include all labor, materials, equipment, supervision, insurance, payment and performance bonds, applicable taxes and all other work in accordance with the contract documents.
2. Unless otherwise specified, the Contractors will be responsible their own Construction Facilities and Temporary Controls including, but not limited to, offices, storage trailers, etc.
3. The General Trades contractor will be required to provide dumpsters and temporary toilets for all Prime Contractors included in this bid package summary. It will still be all the Prime contractors' responsibility to put their debris and trash in the dumpsters, as well as keeping the porta johns in decent working order. It will be all Prime Contractors responsibility to keep the floors orderly, swept, and free from tripping hazards.
4. The Electrical Contractor will maintain temporary power and add to the temporary lighting for construction activities as needed by all Prime Contractors. Metering Fee and reasonable usage will be paid for by the Owner.
5. The Mechanical and Plumbing Contractor will provide temporary water onsite for construction activities as needed by all Prime Contractors. Metering and reasonable usage will be paid for by the Owner.
6. The General Trades contractor will be required to provide any temporary measures for temporary dry in or required temporary conditioning for finishes, should it be necessary for the schedule or manufacturers recommendations.
7. All Contractors will be required to provide one designated representative for continuous cleanup. Should the Contractor exceed ten (10) persons, then the Contractor shall provide an additional designated representative for continuous cleanup at the discretion of the Owner, Architect, or Construction Manager. Should the Contractor not provide manpower for cleanup and the job site become unclean or unsafe, all work will be stopped, and all manpower used to address the issues before work can presume.
8. The Contractor shall cooperate fully with Owner forces or separate contractors so work on those contracts may be carried out smoothly, without interfering with or delaying work under this Contract.
9. All work shall be closely coordinated with Architect and the Construction Manager to prevent impacts to others.
10. All Contractor Project Supervision shall be approved by the Owner, Architect, and the Construction Manager.
11. Any personnel of the Prime Contractor or its subcontractors and vendors that repeatedly disregards the health and safety requirements of the project, shall be grounds for removal from the project and require a in person meeting with the Principals of the Prime Contractor for determining a path forward.
12. All personnel onsite shall be required to wear PPE, including a minimum of hard hats, high visibility clothing, safety glasses, long pants, and appropriate footwear.
13. All Contractors will be required to coordinate with the Owners representatives and make provisions to maintain vehicle and personnel egress for the building and site, maintain clear access for emergency personnel.

B. PROJECT PHASING

1. Contractors agree that the Master Project Schedule as developed and approved by the Construction Manager, Architect, and Owner will be the Master Schedule for the Project.

C. OWNER PROVIDED

1. Soil Borings and Geo-Tech Report
2. Special Inspector (Reinspection costs due to failure or lack of coordination on the Contractors part will be the responsibility of the Contractor)
3. Testing Agency Services (Includes concrete testing and subgrade compaction. Retesting will be the requirement of the Prime Contractor responsible.)
4. Power, Water and Sewer consumption costs will be provided by Owner at no cost to the Project. Bid Package Contractors will be responsible for all temporary facility and controls as required for their work and outlined here in.
5. Project Identification for temporary operational purposes. Safety and construction signage will remain the responsibility of the Contractors.
6. The Owner reserves the right to award contracts to multiple contractors for the project. The Contractor and its subcontractors shall coordinate and cooperate fully as required by the Owner.

D. GENERAL TRADES BID PACKAGE

1. The General Trades Bid Package includes all work not identified as provided by the Owner or included in other Bid Package Contractors work outlined herein.
2. The General Trades contractor will be required to provide dumpsters and temporary toilets, or all Prime Contractors included in this bid package summary. It will still be all the Prime contractors' responsibility to put their debris and trash in the dumpsters, as well as keeping the porta johns in decent working order. It will be all Prime Contractors responsibility to keep the floors orderly, swept, and free from tripping hazards.
3. The Contractor shall comply with all federal, state, and local guidelines associated with renovating existing buildings.
4. The General Trades Contractor shall provide all caulking or sealants including fireproofing, fire caulking, and sound caulking. All mechanical, fire protection, plumbing, and electrical contractors shall ensure any holes they cut through walls leave no more than a ¾" gap for proper sealing.
5. No materials, fixtures, tie ins, or provisions will be made or provided by the Owner unless otherwise noted in the contract documents.
6. General Trades Package shall include, but is not limited to, necessary demolition, concrete patching, floor patching and floating, interior finishes, exterior building envelope replacement, masonry, metals, thermal and moisture scopes, doors, frames, hardware, windows, specialties, division 12 furnishings.
7. General Trades includes termite treatment where required under slab.
8. Final Cleaning as described in specification section 017420 shall be the responsibility of the General Trades Contractor. Cleaning shall include a thorough clean before a punch list and touch up afterwards to ensure the Owner receives a clean project at completion.
9. Under slab utility work associated with all other trades will be performed by the mechanical/plumbing/electrical/fire protection contractors. All demolition and excavation necessary for the demolition or reinstallation of new systems shall be backfilled and compacted per the architect's direction here in and brought to a under slab elevation. The General Trades contractor shall be responsible for the concrete slab patching to ensure a consistent smooth slab patch at all patched areas.

10. The Contractor shall review documents for alternates that pertain to the scope of work in this bid package and include as required.
11. Below is a description to delineate the starting and stopping points of the General Trades and Site Contractor.
    The General Trades Contractor shall include any work on the exterior envelope or shell of the building and everything "inward". The Site Contractor shall include anything from that point "outward". The only exceptions to that is the generator foundation and its immediate area is to be installed by the General Trades Contractor and Electrical Contractor.

12. SPECIFICATIONS INCLUDED

DIVISION 00 – Included in its entirety

DIVISION 01 – Included in its entirety

DIVISION 02 – Included for reference and coordination with other Primes.

DIVISION 03 – Included in its entirety

DIVISION 04 – Included in its entirety

DIVISION 05 – Included in its entirety

DIVISION 06 – Included in its entirety

DIVISION 07 – Included in its entirety

DIVISION 08 – Included in its entirety

DIVISION 09 – Included in its entirety

DIVISION 10 – Included in its entirety

DIVISION 11 – Included in its entirety

DIVISION 12 – Included in its entirety

DIVISIONS 21 - 33 – INCLUDED FOR REFERENCE AND COORDINATION WHERE APPLICABLE WITH ALL SPECIFICATIONS AND SCOPES INCLUDED UNDER GENERAL TRADES.

DIVISION 21 FIRE SUPPRESSION
DIVISION 22 PLUMBING
DIVISION 23 HEATING, VENTILATING, AND AIR CONDITIONING (HVAC)
DIVISION 26 ELECTRICAL
DIVISION 27 COMMUNICATION SYSTEMS
DIVISION 28 ELECTRICAL SAFETY AND SECURITY

DIVISION 31 EARTHWORK (General Trades includes Termite Treatment)
DIVISION 32 EXTERIOR IMPROVEMENTS
DIVISION 33 UTILITIES

E. MECHANICAL & PLUMBING PACKAGE

1. The Mechanical and Plumbing Bid Package includes all mechanical, plumbing, relative demolition, and associated work for additions and exterior connections as outlined on the plans and the specifications outlined herein to provide a complete system.
2. The Mechanical and Plumbing Contractor shall provide a complete HVAC system with controls as outlined here in.
3. No materials, fixtures, tie ins, or provisions will be made or provided by the Owner unless otherwise noted in the contract documents.
4. Site utility work associated with plumbing, sewer, gas, etc. will be performed by the mechanical/plumbing contractor. All excavation for demolition or new work shall be backfilled and compacted per the architect's direction. Stone fill and thrust blocks in trenches shall be the responsibility of this contractor and be brought to finish elevation where the work will be handed off to the Site Contractor. The general trades contractor shall be responsible for the asphalt, concrete, or top soil necessary to finish the exterior as shown in the documents.
5. Contractor shall be responsible for connecting and running the fire main to 1' above finish floor, where the fire protection contractor will connect the flange for their system. This work shall include any PIV and tamper switch that shall be run to the riser location for tie in with the fire protection system. The lines shall be jointly flushed out and checked once water can be put on the system.
6. Contractor shall review documents for Alternates that pertain to the scope of work in this bid package.
7. The Contractor shall be responsible for making penetrations as required for their systems, and as required for complete fireproofing, fire sealants, or fire taping. All penetrations shall leave no larger than a ¾" gap. Any fire dampers or mechanical components that provide fire or sound ratings, shall be a part of this package.
8. The Mechanical/Plumbing and Electrical Prime Contractors will be responsible for the saw cut, demolition, disposal of concrete, excavations, backfill, and proper compaction for their respective trenches in the existing building. The General Trades contractor will be required to provide complete concrete placement including, but not limited to, concrete, reinforcement, dowels, termite treatment, finishing, and curing necessary for flooring.

9. SPECIFICATIONS INCLUDED

DIVISION 00 – Included in its entirety

DIVISION 01 – Included in its entirety

DIVISION 02 – Includes, but is not limited to, site utilities and compaction in ditches.

DIVISION 03 – As required for trust blocks and housekeeping pads.

DIVISION 04 – For reference and coordination

DIVISION 05 – 14 Included were applicable to mechanical and plumbing scopes.

DIVISION 21 – Included were applicable to mechanical and plumbing scopes.

DIVISION 22 – Included in its entirety.

DIVISION 23 – Included in its entirety.

DIVISION 26-33 – Included were applicable to mechanical and plumbing scopes.

F. FIRE PROTECTION BID PACKAGE

1. The Fire Protection Bid Package includes all fire protection as outlined in the plans, specifications, and other contract documents as to provide a complete system and to the satisfaction of the Owner. Scope of work shall consist of starting at one foot (1') above finished floor. Scope of work shall include flow tests: fire protection design: shop drawings: materials, equipment and installation to meet NFPA, local, state, and federal codes, regulations, and requirements as to provide a complete fire protection system. The Contractor shall furnish and install all electrical components for the fire protection system including post indicator valves outside of the building. Electrical Bid Package Contractor will provide final termination to the Fire Protection System. The Fire Protection Bid Package includes all fire protection and associated work for renovations and site as outlined on the plans and the specifications outlined herein to provide a complete system.

2. SPECIFICATIONS INCLUDED:

DIVISION 00 – Included in its entirety

DIVISION 01 – Included in its entirety

DIVISION 02 – 14 – For reference and coordination

DIVISION 21 – Included in its entirety

DIVISION 22 – 33 – For reference and coordination

G. ELECTRICAL BID PACKAGE

1. The Electrical Bid Package includes all electrical and associated work for renovations and site work as outlined on the plans and the specifications outlined herein to provide a complete system.
2. The Contractor shall provide all electrical site utilities or connections to existing services.
3. Contractor shall provide new site lighting shown within the construction limits outlined in the Public Safety Building documents.

4. The Contractor shall provide the low voltage systems as outlined in the documents including, but not limited to, fire alarm, phone, data, and security.
5. The Contractor shall provide concrete pads for electrical equipment as required by documents and manufacturer requirements.
6. Site utility work associated with electrical will be performed by the electrical contractor. All excavation for demolition or new work shall be backfilled and compacted per the architect's direction. Stone fill or concrete encasement in trenches shall be the responsibility of this contractor and be brought to finish elevation. The site contractor and general trades contractor shall be responsible for the asphalt, topsoil, and concrete necessary to finish out the interior and exterior as shown in the documents.
7. No materials, fixtures, tie ins, or provisions will be made or provided by the Owner unless otherwise noted in the contract documents.
8. The Contractor shall be responsible for making penetrations as required for their systems, and as required for complete fireproofing, fire sealants, or fire taping. All penetrations shall leave no larger than a ¾" gap.
9. The Contractor shall provide final terminations to the fire protection system including switches located inside and outside the building.
10. The Contractor shall review documents for alternate that pertain to the scope of work in this bid package and include as required.
11. The Mechanical/Plumbing and Electrical Prime Contractors will be responsible for the saw cut, demolition, disposal of concrete, excavations, backfill, and proper compaction for their respective trenches in the existing building. The General Trades contractor will be required to provide complete concrete placement including, but not limited to, concrete, reinforcement, dowels, termite treatment, finishing, and curing necessary for flooring.
12. SPECIFICATIONS INCLUDED

    DIVISION 00 – Included in its entirety

    DIVISION 01 – Included in its entirety

    DIVISION 02 – 24 – For reference and coordination

    DIVISION 26 - 28 – Included in its entirety

H.

I. SITE BID PACKAGE

1. The Site Bid Package includes all work on the exterior of the project within the limits of construction, with the exceptions of utilities being installed by the plumber and electrician, and the actual exterior facade of the building.
2. The Site contractor will establish and maintain the SWPPP, reporting, and oversight until the final limits are established and permit closed.
3. No materials, fixtures, tie ins, or provisions will be made or provided by the Owner unless otherwise noted in the contract documents.
4. Site Package shall include, but is not limited to, removal of existing asphalt, concrete, utilities, installation of new subgrade, asphalt, concrete paving, sidewalks, bollards, landscaping, fencing, masonry wall around property, electric gates, storm drainage piping, structures, and tie ins to existing, removal of construction fence at project limits, cleaning and pressure washing site as required for turnover to the owner.

5. The Contractor shall review documents for alternates that pertain to the scope of work in this bid package and include as required.
6. SPECIFICATIONS INCLUDED

   DIVISION 00 – Included in its entirety

   DIVISION 01 – Included in its entirety

   DIVISION 02 - Included in its entirety

   DIVISION 3 – 5 As shown for sitework

   DIVISION 6 – Reference only

   DIVISION 7 – As applicable for exterior joint sealants in concrete flatwork.

   DIVISION 8 - 28 – For reference and only where applicable.

   DIVISION 31- 33 – Included in its entirety

END OF SECTION 011001

SECTION 012300 - ALTERNATES

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes administrative and procedural requirements for alternates.

1.2 DEFINITIONS

A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.

1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.3 PROCEDURES

A. Coordination: Revise or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.

1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.

B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated revisions to alternates.

C. Execute accepted alternates under the same conditions as other work of the Contract.

D. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

A. ALTERNATE #1: Replace CMU perimeter wall and access gates at rear of PSB with 10'-0" high vinyl coated chain link w/ razor wire and screening with automatic gates. Delete 8'-0" high aluminum picket fence, gates and operators in front of PSB (secure deputy parking area).

B. ALTERNATE #2: Remove PSB Garage and CID covered parking at rear of PSB. Concrete slab at PSB Garage to be replaced with concrete paving. Stairs at rear exit to remain.

C. ALTERNATE #3: Remove new construction (steel framing / concrete slab) at Mezzanine M001. Existing stairs to remain; provide flooring/walls for access from top of existing stairs to opening in existing Mezzanine.

D. ALTERNATE #4: Remove LEMA/E-911/VFD from scope of project. Rough-in's to remain; Training Rooms to remain.

E. ALTERNATE #5: Remove all landscape and irrigation from the contract, however, sleeves shall be installed as shown on the irrigation plan as a part of the base bid.

END OF SECTION 012300

SECTION 32 84 00 – PLANTING IRRIGATION

PART 1 GENERAL

1.1 SUMMARY

A. Extent of underground irrigation system is shown on Drawings and in the schedules.

B. Provide all labor, materials and equipment required by or inferred from Drawings and Specifications to complete the Work of the Section.

C. Provide additional Work and materials required by local authorities at no extra cost to Owner.

D. Contractor shall provide all permits, applications, licenses and other qualifications to complete work at no additional cost to owner.

E. Reference Standards: American Society for Testing and Materials, Annual Book of ASTM Standards, latest edition.

F. Related work: Section 329300 – Plants, Soil, & Sod

1.2 CONTRACTS

A. Irrigation Work to a single firm specializing in irrigation installation, acceptable to Landscape Architect.

1.3 CODES AND STANDARDS

A. Perform Irrigation Work in compliance with applicable requirements of governing authorities having jurisdiction. County regulations supersede these specifications. Notify Landscape Architect in writing of all discrepancies immediately.

1.4 DO NOT MAKE SUBSTITUTIONS

A. If Contractor desires to make substitutions of materials, sufficient descriptive literature and material samples must be furnished to establish the material as an equal substitute. In addition, Contractor must state his reasons for desiring substitute materials. Submit this request and information to Landscape Architect.

1.5 APPROVAL AND SELECTION MATERIALS AND WORK

A. The selection of all materials and execution of all operations required under the Drawings and Specifications is subject to the approval of Owner and Landscape Architect. They have the right to reject any and all materials and any and all Work which, in their opinion, does not meet requirements of the Contract Documents at any state of operations. Contractor to remove rejected Work and or materials from Project Site and replace promptly.

B. "As-Built" Drawings: Any changes in layout and/or arrangements of the proposed irrigation system, or any other differences between proposed system and actual installed conditions are to be recorded by Irrigation Contractor in the form of an "As-Built" Drawings are to be clearly and neatly drawn on CAD drawing of original design provided by Landscape Architect. Provide Owner and Landscape Architect with a reproducible copy of the "As-Built" Drawings before Work under this Contract will be considered for acceptance. All automatic and manual valves, hose bibs or quick couplers and wire splice shall be shown with actual dimensions to reference points so they may be located easily in the field. Submittal of approved "As-Built" Drawings will preclude any Application for Final Payment by Contractor.

C. Delivery, Storage and Handling: Deliver material and equipment in such a manner as to not damage parts or decrease the useful life of equipment.

D. Store materials away from detrimental elements. Coordinate with General Contractor to secure a safe staging area.

E. Handle, load, unload, stack and transport materials for irrigation system carefully to avoid damage. Handle pipe in accordance with Manufacturer recommendations.

1.6 VERIFY TAP

A. Test water conditions as they exist immediately down stream from tap: If they do not meet design demands, notify Landscape Architect immediately of existing conditions.

B. The irrigation system is designed to operate under the following conditions; a minimum of 60 psi of water pressure at tap and at least 45gpm available water supply tap & meter by Irrigation Contractor.

C. Job Conditions: Insurance on irrigation materials or equipment stored or installed as the responsibility of Irrigation Contractor. Such insurance shall cover fire, theft and vandalism. Should Contractor elect not to provide for such insurance, he will in no way hold Owner responsible for any losses incurred by the aforementioned acts. The Contractor is responsible for all costs incurred in replacing damaged or stolen materials.

D. Obtain all required permits and pay all required fees, at no additional cost to Owner. Any penalties imposed due to failure to obtain permits or pay fees are the responsibility of the Contractor.

E. Provide and maintain all passageways, guard fences, warning lights and other protection devices required by local authorities.

F. Existing site improvements shall be performed in a manner which will avoid possible damage. The Contractor is responsible for any damage of a mechanical nature as well as damage resulting from leaks in irrigation system whether due to negligence or otherwise.

G. Damages resulting from irrigation installation to Work of other trades must be repaired at the expense of Contractor in a timely fashion.

H. Make adjustments to system layout as may be required and requested to provide complete coverage at no additional cost to Owner.

I. Keep project site clean and orderly at all times during construction.

1.7 WARRANTY

A. All Work for a period of one year, starting on Date of Substantial Completion, against defects in material, equipment, Workmanship and any repair required resulting from leaks or other defects of workmanship, material or equipment.

B. Repair unsatisfactory conditions promptly at no cost to Owner.

C. Emergency repairs may be made by Owner without relieving the Contractor of this warranty obligation.

D. Contractor to repair settling of backfilled trenches occurring during warranty period, including restoration of damaged plantings, paving or improvements resulting from settling of trenches or repair operations.

E. Respond to Owner's request for repair Work within ten days. If not, Owner may proceed with such necessary repairs at Contractor's expense. In addition, Contractor shall be held responsible for replacement of any plant material (tree, shrubs, sod or seed) which becomes damaged or dies due to a lack of water during periods in which irrigation system is inoperable.

PART 2 PRODUCTS

2.1 SUMMARY

A. Specific requirements concerning the various materials and arrangements which are safe to be installed are shown on drawings.

2.2 QUALITY AND SIZE

A. Material specified by name and/or model number in the Specifications, on the site or detailed drawings are used for the purpose of identification of materials and to insure specific use of that material in the construction of the system. No substitutions will be permitted without approval. (See Substitutions).

B. Plastic pipe for all main lines is schedule 40 PVC while laterals 1 ½" size and over is Class 200 PVC Type 1120 or 1220 as manufactured Cabot, John-Mansville (or approved equal) unless otherwise specified herein or on the drawings. All pipe, 1" size and less, is Class 160.

C. PVC pipe is to be continuously marked with Manufacturer's identification, type, class and size and installed with these markings on the top of the pipe.

D. All fittings should be Schedule 40 PVC Type 1, of domestic manufacture and identified as to pressure rating or schedule.

E. Solvent Weld: Solvent weld for PVC pipe over 20' length must be installed with standard 20' length sections. Unnecessary joints or couplings are not acceptable.

F. Risers: Provide threaded Schedule 80 PVC risers. All risers above grade to be either dark gray or black PVC pipe.

G. Electric Wiring: All 110 volt AC wiring to controller must consist of three wires: one black, one white and one ground. Electrical service to be provided by General Contractor unless otherwise directed by Owner.

H. All splices in controller wiring shall be waterproofed by using Rainbird "Snap-Tite" wire connectors.

I. All control wiring shall be 24 volt solid wire U>L> approved for direct burial in ground. Minimum wire size: 14 gauge.

J. All control wiring and wiring connections from controller to valves shall be included in this contract.

K. Sprinkler Heads: Provide as indicated on the plan. Heads perform to Manufacturer's specifications concerning radius of throw and gallon at given pressure.

L. Automatic Controller: Is to be installed in the location schematically shown on drawings, but identified by owner's representative in the field. The controller location will be accessible as shown on drawing for maintenance. Provide for the possibility of making minor timing adjustments to the controller in the field.

M. Provide controller specified on drawing; fully automatic capability as well as manual operation of the system.

N. Provide controller specified on drawing which operates on a minimum of 110 volts AC power input and is capable of operation of 24 volt AC electric remote control valves, with a reset circuit breaker to protect from overload. Contractor is responsible for connection to 100V AC power to controller.

2.3 STATIONS

A. Each station shall have a time setting knob, which can be set for variable timing in increments from 6 to 60 minutes, or set to omit the station from irrigation cycle.

2.4 THE CONTROLLER

A. The irrigation system shall be as specified on the drawings.

2.5 WATER METER

A. Type approved by City where shown on drawing. Verify location with owner's representative in the field.

B. Costs of irrigation water meter(s) shall be included in the contractors bid.

2.6 BACKFLOW PREVENTER

A. Submit Double Check Assembly Backflow Preventer cut sheets for approval. The backflow preventer is a double check valve assembly type, capable of having a flow rate of 80 gpm, with a pressure loss not to exceed 5 psi and suitable for supply up to 150 psi. The backflow preventer body to be bronze, internal parts stainless steel and check valve assemblies with tight seating rubber. The backflow preventer assembly must include two gauge valves for isolating unit and two ball valve test clocks for testing unit to insure proper operation.

2.7 PRESSURE REGULATOR

A. Provide Wilkins #600 or equal. Install outside of the building for easy access and adjustment.

B. Mastervalve: Rainbird # electric remote control valve w/brass body and bonnet. Valve shall be wired to open and close with each circuit valve. Size based on mainline.

2.8 VALVE BOXES

A. Ametek 12" rectangular valve box with cover or jumbo mechanical box with cover and Ametec 10" round valve box with cover as indicated on drawings. Place a minimum of 6" depth of gravel under each valve box, meter, pressure regular and backflow preventer box.

2.9 SLEEVES

A. Size and type as indicated on drawings.

2.10 HOSE BIBS

A. Hose bibs shall have an all cast brass or bronze body. Hose bibs to be ¾" inside diameter and shall be installed below grade in Ametek 12" x 18" valve boxes. The cover over hose bib boxes shall be clearly marked with "non-potable water".

2.11 CONTROL VALVES

A. Provide Rainbird Electric Remote Control Valve (size as indicated on Plan). Valve to conform to Manufacturer's Specifications concerning performance and at a given pressure.

2.12 SURGE PROTECTION

A. Provide General Electric Lightning Arrestor #GL 15 CC B 007 for controllers not equipped with primary surge protection.

B. Provide secondary surge protection installed on the 24V AC valve control wiring for systems controlling 24V AC solenoid operated valves.

C. The Irrigation Contractor is responsible for determining whether the above mentioned surge protection equipment is provided for in controller as a "built-in" unit or if it must be supplied and installed separately.

2.13 ISOLATION VALVES

A. Provide all BALL valves for isolation purposes allowing full diameter opening when in full open Position. See Contract Drawings.

B. Manually operated valves shall be same size as mainline.

2.14 AUTOMATIC DRAIN VALVES

A. Install at low point for each lateral line "Rainbird 16AP" drain valve in gravel sump 12" x

12" in size and with a minimum of 18" of cover over sump. Miscellaneous System Components: Providerisers, reducers, couplings, adapters, fittings as necessary to complete irrigation system.

PART 3 EXECUTION

3.1 SUMMARY

A. Provide a competent superintendent and necessary assistants on the job while Work is progress. The Superintendent represents Contractor in all functions, and directives given to him by Owner are binding as if given to Contractor in person.

B. During the installation Landscape Architect may make regular site visits and reject any Work and materials which do not meet the Standards called for in Contract Documents. Rejected work must be promptly corrected and no time extension will be allowed for this reason.

3.2 INSPECTION

A. Inspect project area prior to start of Work to determine that all site conditions are acceptable for irrigation Work to begin. Inform Landscape Architect of unsuitable conditions. Do not proceed with installation of irrigation system until unsatisfactory conditions have been corrected in a manner acceptable to installer.

3.3 PREPARATION

A. Flag all existing underground utilities prior to trenching and/or boring operations. Obtain utility locations from Owner and/or General Contractor and Utilize utility locating services when necessary.

3.4 EXCAVATION

A. All excavation is unclassified and includes all materials encountered.

B. Prior to excavation, remove sod, preserve and replace after backfilling is completed.

C. After excavation and backfilling is completed, regard trenched area consistent with surrounding area and re-establish with 100 percent pure of type grass existing. Maintain as necessary for establishment and survival of grass.

D. Backfill material to be free from rock, large stones and other unsuitable substances which could damage the pipe or create unusual settling problems. Back fill in 6" layers and tamp after each layer to prevent excessive settling.

E. Backfill trenches containing plastic pipe when pipe is cool to avoid excessive contraction in cold weather. Such backfilling can be done in early morning hours or pipe may be water cooled prior to backfilling procedures.

F. Backfill material evenly in lifts not to exceed 6" and compact to 100 percent of maximum density.

G. Contractor is responsible for establishing compaction in trenches equal to or exceeding overall compaction of paving base.

H. Minimum depth of cover of all pipe is as follows:
¾" – 1" pipe – minimum depth cover is 12"
1 ½" – 1 ½" pipe – minimum depth cover is 18".

3.5 SLEEVING

A. Location of sleeving shown on plans is schematic. Sleeving installation shall make adjustments necessary to accommodate existing vegetation, utilities and other existing conditions. Repair of damage to existing utilities, structures or other construction resulting from installation of sleeves is the responsibility of Contractor.

B. Install PVC sleeves according to detail.

3.6 PIPE JOINTS

A. Flow Manufacturer's Recommendation.

B. Solvent weld PVC pipe, assemble according to Manufacturer's Recommendations, using appropriate PVC pipe cleaner/primer and solvent cement.

C. PVC to metal connection, Work metal connection first then use Teflon pipe fitting tape on thread PVC to metal joints. Use only light wrench pressure.

D. Main line shall be installed according to Manufacturer's Recommendations.

3.7 PIPE AND FITTINGS

A. Install according to Manufacturer's Recommendations including snaking-in of PVC pipe to prevent excessive strain when contracting in cold weather. Solvent weld fittings must conform to Schedule 40 or Schedule 80 PVC dimensions and specifications for solvent weld fittings and as manufactured by Lasco, Inc.

B. Lateral lines and risers shall be as follows:

Install according to Manufacturer's Recommendations using standard techniques.

Combine lateral lines and main supply lines in common trenches wherever possible with specified minimum depth of coverage over all pipe (see Backfilling).

Install riser such that no excessive movement occurs while sprinkler head is in operation. Height of risers to be in accordance with planned and existing plant material. Height of all risers is subject to approval of Landscape Architect. Exchange of 4" pop-up to 12" high pop-in field by Landscape Architect is incidental.

Plug lines immediately upon installation to minimize infiltration of foreign matter.

Flush lateral lines and risers prior to installation of sprinkler heads.

Above ground risers must be dark gray or black in color.

3.8 SPRINKLER HEADS

A. Low pop-up sprinkler heads shall be installed in such a manner that tip is 1" above finished grade. Where finish grade has not been established, extend a riser a minimum of 12" above existing grade to mark location of head. After finish grade is established, install heads at specified height on trip elbow swing joint, no flex pipe will be accepted.

B. High pop-up heads: High pop-up shrub heads shall have the finished height determined by Landscape Architect.

C. Backfill around sprinkler head assembly in such a manner that sprinkler head is stabilized so that no lateral motion is exhibited during operation.

D. Sprinkler Heads on Risers: Sprinkler heads on risers should be maintained on a schedule 80 PVC riser coupled by a Schedule 40 F.I.P.T. coupling (Lasco #420007) to polyethylene riser first out of lateral fitting. Height of all heads in bed areas to be determined in the field by Landscape Architect. (Riser heights may also be achieved by use of approved pvc extensions of head manufacturer)

E. Install control wire in orderly fashion, locate in main line trench. Bundle wires together and tape at 10' intervals. Position wires under main line.

F. Allow for contraction of wires by providing looped slack at directional changes in supply line.

G. Keep wire splices to a minimum. All splices shall be waterproofed by using "Rainbird Snap-tite" wire connectors. All splice locations to be indicated on "as-built drawings".

H. Pass Wires under existing or future paving, construction, etc. through PVC sleeves provided by (Irrigation Contractor/General Contractor).

I. Control Equipment: Install automatic valves and controller according to Manufacturer's Recommendations. Appropriate locations are shown on the drawings.

J. Valve Boxes: All valves are to be housed in valve boxes. Install according to Manufacturer's recommendations and according to details. Position boxes at a height that will not cause them to interfere with maintenance machinery (e.g., mowers) and such that soil and mulch do not wash into the box. Locate all valve boxes within plant bed areas where ever possible.

K. Install surge protection equipment on primary (110 VAC) power lines. Connect each surge protect unit to at least on 5/8" diameter by 9' long copper clad grounding electrode driven into the soil to its full depth. Place electrodes no closer than 2' from controller cabinet or any control or power wire. Be consistent in locating ground rods throughout installation with respect to controller position and not locations on "As-Built" Drawings.

L. Ground wire between surge protection device and grounding electrode to be single strand bare copper wire at least one size greater than wire supplying power to control unit. Route ground wire away from power and control wires where possible.

M. When it is necessary to pass through controller cabinet wall, use two #L-70 copper grounding lugs and brass bolt as noted in detailed drawings. Use #WE 5/8" ground rod clamp (single piece and bolt) to make connection between ground rod a minimum of 10". Cover the top of rod and clamp with a Toro #850-00 cover with lid at grade level.

N. Balancing and Adjusting: Balance and adjust the various components of system so that overall operation of the system is most efficient. This includes synchronization of controllers, adjustment to pressure regulators, part circle sprinkler heads and individual station adjustments on controllers. The Contractor has the right to call in the Designer or Owner's Representative to aid in balancing and adjustment of system.

3.9 OPERATIONAL TESTING

A. Upon completion of irrigation system and after head installation, test entire system for proper operation. Flush all air from system and check components for proper operation.

3.10 "AS-BUILT" DRAWINGS

A. "As-Built" Drawings are to include locations of all wire splices, valves (automatic and manual) with triangulated measurements to each location as well as any deviations in location of piping and heads as represented by Contract Documents.

B. A set of "As-Built" Drawings are to be provided by the contractor to the Architect or Landscape Architect in order to receive written substantial completion for this scope of work.

3.11 OWNER ORIENTATION

A. Upon completion of Work and final acceptance by Owner and Landscape Architect, Contractor is responsible for orientation of maintenance personnel in the operation, maintenance and repair of system. Furnish copies of all available parts lists, trouble shooting lists and specification sheets to Owner prior to final payment.

B. Set initial watering schedules and programming on automatic controllers at the direction of Landscape Architect. Changes in schedules and programming and instructions on how to make such changes is the responsibility of Landscape Architect.

3.12 WINTERIZING THE SYSTEM

A. If Owner requires, irrigation piping must be winterized by first blowing system clear of water using compressed air (80 psi minimum) admitted into piping at a quick coupling valve or hose bib located at a higher elevation on the system piping. Activate individual zones, higher zones first, then proceed successively through the system towards lower elevations. Proceed through all zones twice. The air compressor used to winterize system must have an engine separate from compressor tanks to prevent high temperature air from being injected directly into PVC piping.

3.13 CLEAN-UP

A. During Irrigation Work, keep project site clean and orderly. Upon completion of Work, clear grounds of debris, superfluous materials and all equipment. Remove from site to the satisfaction of Landscape Architect and Owner.

3.14 PROTECTION

A. Protect Irrigation Work and materials from damage due to irrigation operations, operations by other contractors, trades and trespassers. Maintain protection until Date of Substantial completion.

B. Cover all openings into system as it is being installed to prevent obstructions in pipe and breakage, misuse or disfigurement of equipment.

C. Contractor is responsible for theft of equipment and material at job site before, during and after installation, until Date of Substantial Completion of the Work in total.

3.15 INSPECTION AND ACCEPTANCE

A. Upon completion of Work, notify Landscape Architect and Owner at least three days prior to requested Date of Inspection for Substantial Completion. Prior to contacting Landscape Architect for the purpose of demonstrating all or any part of the system, thoroughly test the system for proper operation and make adjustments and replace any defective parts prior to inspection for Substantial Completion. Where inspected irrigation

Work does not comply with requirements, replace rejected Work promptly, within two weeks of inspection. In unusual circumstances, a longer time period may be granted by Owner. If such replacements are not completed within time specified, Contractor may be considered to be in default of Contract and Owner may use Contract Retainage to hire other Contractors to finish the Work.

PART 4 ACCEPTANCE AND GUARANTEE

4.1 SUMMARY

A. Substantial Completion: Submit written requests for inspection for Substantial Completion to Landscape Architect at least three calendar days prior to anticipated Date of Inspection and Testing. Substantial Completion cannot be granted and at the same time no further applications for payment shall be approved for more than 85% of contract until there has first been a walk-thru for head coverage at which time a "punch list" will be written consisting of items to be addressed and corrected by Contractor immediately. Depending on the extent of the Work on the "punch list", the Landscape Architect will determine the job to be Substantially Complete or pending the completion of the "punch list".

B. Submit record drawings and maintenance manuals to Landscape Architect with written request for inspection.

D. Review "punch list" Work jointly with Owner and Landscape Architect for Substantial Completion of total (contract) Work. (See "General Conditions", Article No. 9).

E. Upon satisfactory completion of repairs and replacements and completion of "As–Built" drawings, Landscape Architect and Owner will verify system for Substantial Completion and issue AIA Certificate of Substantial Completion if all items on "punch list" have been completed. If necessary another "punch list" will be written to itemize any deficiencies still existing and will be attached to AIA Certificate. Contractor shall complete all "punch list" items if possible within 30 days while continuing maintenance.

4.2 DATE OF SUBSTANTIAL COMPLETION

A. Date of Substantial Completion will constitute beginning Date of One-Year Guarantee. This Date also constitutes the beginning of the warranty responsibilities and acceptance by Owner and Landscape Architect.

4.3 GUARANTEE

A. All Work, products, equipment and materials for one year, beginning at Date of Substantial Completion as per (AIA Certificate of Substantial Completion/written letter of notification).

B. Make good any damage, loss, destruction or failure. Repairs and replacements shall be done promptly and at no additional cost to Owner.

C. Repair damage to grade, plants and other Work or property as necessary.

D. If replacements are not acceptable during or at end of Guarantee Period, Owner may elect either subsequent replacement or credit. Replacement products shall have a similar one-year guarantee from time of replacement.

E. Guarantee applies to all unacceptable conditions or losses with exception of Master Irrigation Specifications

PART 5.0 METHOD OF MEASUREMENT

5.1 METHOD OF MEASUREMENT

A. The irrigation system shall be measured per these specifications and plans as a lump sum pay item.

PART 6.0 PAYMENT

6.1 PAYMENT

A. The Irrigation Pay Item shall be considered complete and shall include all material, equipment, labor, METERS, installation costs, overhead and profit. Bidder shall verify quantities by his own take-off from the Drawings and notify the Landscape Architect of discrepancies before submitting his Bid.

END OF SECTION 328400

SECTION 32 93 00 – PLANTS, SOIL, & SOD

PART 1 GENERAL

1.1 SUMMARY

A. Extent of the planting is shown on the drawings and in the schedules.

B. Provide all labor, materials, and equipment required by or referenced from the drawings and specifications to complete the work of this section.

C. Verify plant count from plan, and provide and install all plant material on plan unless site conditions prohibit.

D. All plants shall conform to or surpass minimum quality standards as defined by the American Association of Nurserymen, current edition of American Standards for Nursery Stock published by American Association of Nurserymen, Inc. and in addition shall conform to sizes and descriptions in the plant list.

E. Related work: Section 328400 – Planting Irrigation

1.2 SUBSTITUTION

A. Substitution from the specified plant list will be accepted only when satisfactory evidence in writing is submitted to the Landscape architect, showing that the plant material is not available.

B. Requests for approval of substitute plant material shall include common and botanical names and the size of substitute material.

C. Only those substitutions of at least equivalent size and having essential characteristics similar to the originally specified material will be approved. Acceptance or rejection of substitute plant material will be issued in writing by the Landscape Architect.

1.3 APPROVAL AND SELECTION OF MATERIALS AND WORK

A. The selection of all materials and the execution of all operations required under the Drawings and Specifications are subject to the approval of the Owner and Landscape Architect. They have the right to reject any and all materials and any and all work, which in their opinion, does not meet the requirements of the Contract Documents at any stage of the operations. Remove rejected Work and or materials from Project Site and replace promptly at no additional cost to the Owner.

1.4 QUALITY ASSURANCE

A. The landscape installer shall be qualified with work resulting in successful plant establishment.

B. The installer is required to maintain an experienced full-time supervisor on project site when planting is in progress.

C. Topsoil analysis shall be furnished by Mississippi State University Extension Center (Mailing Address P.O. Drawer "Z", Gulfport, MS 39502-0045) Contact Information Phone 228-865-4227, Fax: 228-868-1470 Email: harrison@ext.msstate.edu (or an equal), stating percentages of organic matter; gradation of sand, silt, and clay content; caution exchange capacity; (sodium absorption ration;) deleterious material; pH; and mineral and plant-nutrient content of topsoil.

D. A report of suitability of topsoil shall be furnished for lawn growth stating the recommended quantities of nitrogen, phosphorus, and potash nutrients and soil amendments to be added to produce satisfactory topsoil.

E. The following codes and standards shall be observed:

1. State and Federal laws, including for disease and insect control.

2. Requirements of authorities having jurisdiction.

F. A Pre-installation Conference shall be conducted 30 days prior to construction. The General contractor shall schedule this meeting to include the landscape contractor, irrigation contractor, Landscape Architect, and any other parties participating in this contract.

1.5 WORKMANSHIP

A. Install all plant materials neatly.

B. Make minor adjustments to layout as may be required and requested by Landscape Architect at no additional cost to the Owner.

C. Coordinate delivery of all plant material with time of installation to prevent any plant material from being stockpiled on site longer than 24 hours.

D. Deliver materials in such manner as to not damage or decrease the health and vigor of the plant materials. Store materials away from detrimental elements. Coordinate with General Contractor to secure a safe staging area.

E. Handle, load, unload, and transport materials carefully to avoid damage.

F. Maintain and protect plant materials as necessary to insure health and vigor.

1.6 GUARANTEE

A. Guarantee all plant materials and lawn areas for one year from the date of substantial completion. Contractor shall replace plants that fail to grow properly with plants as originally specified at the earliest practical date following plant failure, without additional charges to the Owner.

B. Replacement materials will be guaranteed for one year from the date of replacement.

C. The Contractor shall not be responsible for replacing plants which are damaged by abuse or improper maintenance by Owner as reported by Contractor outlined below or by acts of nature occurring after acceptance.

D. Acts of nature may include, but may not be limited to high winds of hurricane or tornado force, sleet, hail, freezing rain and extreme cold (as determined by the Landscape Architect). Contractor agrees to replace losses due to Acts of Nature at twenty percent (20%) less than the original contract price for the damaged work.

1.7 CONTRACTOR'S PERIODIC INSPECTION

A. During guarantee period, Contractor shall make periodic inspections of the project to satisfy him that maintenance by the Owner is adequate.

B. Any methods or products which he deems not normal or detrimental to good plant growth shall be reported to the Owner in writing.

C. Failure to inspect and report shall be interpreted as approval and the Contractor shall be held responsible for any and all replacements.

1.8 SOIL TESTING

A. Contractor shall have soil tested by suitable laboratory chosen by the Contractor and subject to written approval of the Landscape Architect.

B. Soil test shall be completed in all planting areas to determine lime and fertilizer requirements. Submit test results to Landscape Architect for approval. Contractor shall adjust pH and fertility based upon results. No addition to or placement of soil is to be done prior to initial soil test report approval.

PART 2 PRODUCTS

2.1 TOPSOIL

A. Topsoil shall be fertile, friable, sandy loam and a natural surface soil obtained from well areas reviewed by Landscape Architect and possessing characteristics of representative soils in the project vicinity that produce heavy growths of crops, grass, or other vegetation.

B. Topsoil shall be free of subsoil, brush, organic litter, or objectionable weeds, clay, clots, stumps, stones, roots or other material harmful to plant growths or hindrance to planting or maintenance operations. Should regenerative materials be present in the soil, Contractor shall eradicate and remove such growth, both surface and root, which may appear in the imported material within one year following acceptance of the work.

C. Topsoil shall not be handled in a frozen muddy condition. The acidity range shall be between 5.0 and 7.0 inclusive. The mechanical analysis of the soil shall be as follows:

Sieve Size	Percent Passing
1 inch mesh	99 - 100 percent
1/4 inch mesh	97 - 99 percent
No. 100 mesh	40 - 60 percent
No. 200 mesh	20 - 40 percent

D. Topsoil, regardless of the source, shall meet all requirements of the paragraph above.

E. Stockpile material that does not meet the requirements may, at the option of the contractor, be improved by screening and the addition of organic matter and chemical admixtures.

2.2 PLANTING SOIL MIXTURE

A. Provide soil mix amended as per laboratory recommendations. Some more specific descriptions may be given on the drawings for special planting of trees. Basic planting soil mix consists of:

40% topsoil (as described Above)
60% organic planting mix (submit sample for approval)

B. The components shall be thoroughly mixed to uniform consistency by hand or machine methods.

2.6 TREES

A. All large deciduous shade trees and ornamental trees are to be field grown from rooted cuttings true to variety and not grafted material. No grafted material will be accepted for the initial installation or as guarantee replacement material.

B. Orders for Plant Materials - Submit to Landscape Architect within 30 days from date contract is awarded to the Contractor.

C. Contractor will submit confirmed orders within ten days of tagging. Contractor is responsible for payment of deposits.

2.7 ORDERS FOR PLANT MATERIALS

A. Submit to Landscape Architect within 30 days from date of contract is awarded to General contractor confirmed orders for material from approved growers (listed on plant schedule). Contractor is responsible for payment of deposits required by approved growers.

2.8 FERTILIZER

A. Fertilizer for all trees, plants and ground covers shall be Milorganite delivered to the site in unopened containers.

B. Fertilize all areas according to the manufacturer's recommended rates in accordance with the monthly maintenance guideline herein.

C. Cultivate and water beds or pits thoroughly after application.

D. Adjust fertilizer in accordance with interim soil test reports.

2.9 FERTILIZER FOR SOD

A. Fertilizer for sod shall be Milorganite fertilizer as per manufacturer’s recommended rates.

B. Fertilizer shall be uniform in composition, dry and free flowing, and shall be delivered to the site in the original, unopened container, bearing the Manufacturer's guaranteed analysis. Fertilizer shall not have been exposed to weather prior to delivery to the site. After delivery until used, it shall be completely protected at all times. It shall not be stored in direct contact with the ground.

2.10 PLANTS

A. All plants shall conform to or surpass minimum quality standards as defined by the American Association of Nurserymen (AAN), current edition of American Standard for Nursery Stock, published by the AAN, Inc. and in addition, shall conform to sizes and descriptions in the plant list.

2.11 CERTIFICATES OF INSPECTION FOR PLANT MATERIAL

A. All necessary inspection certificates shall be supplied to the Landscape Architect's representative for each shipment of plant material, as required by law. Certificates showing source of origin shall be filed with Landscape Architect prior to acceptance of the material.

2.12 INSPECTION

A. All plant materials shall be subject to inspection and approval. The Landscape Architect reserves the right to reject any and all plants which fail to meet this specification at any point during the installation of the job. All rejected materials shall be promptly removed from the site by the Contractor at no additional cost to the owner.

2.13 QUALITY AND SIZE

A. All plant materials furnished shall be well branched, proportioned width to height, of normal habit, sound, healthy and vigorous in growth. The minimum acceptable sizes of plants shall be measured before pruning with branches in normal position and shall conform to measurements specified. Plants used where symmetry is required shall be matched as closely as possible. Plants shall meet all requirements as listed in the plant list.

2.14 SOURCE OF PLANTS

A. Plants shall be field nursery, container grown or collected material subject to the requirements of the Specifications.

2.15 FIELD TAGGED PLANTS

A. All trees are to be located and tagged by the Contractor. The Landscape Architect retains the right to refuse all plant material that does not meet the specifications identified on the drawing.

2.16 INSECTS, PESTS AND PLANT DISEASES

A. All plants shall be of healthy stock, free from disease, insects, eggs, larvae and parasites of an objectionable or damaging nature.

2.17 SUBSTITUTIONS

A. Substitution from the specified list will be accepted only when satisfactory evidence in writing is submitted to the Landscape Architect, showing that the plant specified is not available. Requests for approval of substitute material shall include common and botanical names and size of plant material. Only those substitutions of at least equivalent size and having the essential characteristics similar to the originally specified material will be approved. The Landscape Architect will issue acceptance or rejection of substitute plant material in writing.

B. Balled and burlapped plant materials are to be wrapped with organic wrapping burlap only. Synthetic material will not be accepted. Remove all nursery loading straps once plant material is placed in the pit.

C. Stakes for supporting trees shall be sound timber, straight, sized as shown in planting details and of sufficient length to adequately support the plant. All visible surfaces shall be painted flat black.

D. Deadmen or stakes for anchoring guy wires in the ground shall be of size, material and strength adequate to hold guy taut and maintain tree firmly in an upright position(see plan sections).

E. Wire shall be as shown on plans applicable sections for guying.

2.18 MULCH

A. The approved mulch shall be clean, fresh, free of noxious weed, seed, fire ants, Japanese beetles and/or fringed beetles. On slopes pine straw mulch shall be used.

2.19 EROSION-CONTROL MATERIALS (PLANTING SLOPES GREATER THAN 3:1)

A. Blankets: Biodegradable wood excelsior, straw, or coconut-fiber mat enclosed in a photodegradable plastic mesh. Include manufacturer's recommended 6" steel wire staples.

B. Fiber Mesh: Biodegradable twisted jute or spun-coir mesh, 0.92 lb/sq yd minimum, with 50 to 65% open area. Include manufacturer's recommended 6" steel wire staples.

2.20 SOD

A. Sod shall be 100% specified grass, free of weeds, freshly dug.

2.21 LIME

A. Ground dolomitic limestone not less than 85% total carbonates and magnesium, ground so that 50% passes 100-mesh sieve and 90% 20-mesh sieve.

PART 3 EXECUTION

3.1 LAYOUT OF MAJOR PLANTS

A. Before commencing planting operations, location of major plants and outlines of areas to be planted shall be marked out on the ground, by the Contractor for approval by the Landscape Architect. Contact the Landscape Architect a minimum of 48 hours in advance of the anticipated review of the layout.

3.2 TIME AND PLANTING

A. Planting operations shall be during favorable weather in which conditions are neither extremely cold or hot nor to the point that the risk of loss is too great. The Contractor shall inform the Landscape Architect of high risks due to weather.

3.3 PREPARATION OF PLANTING BEDS (See Planting Sections)

A. Any planting bed that has an existing tree in it shall not be tilled. Each hole is to be hand dug. No major roots are to be harmed during the planting. If the tree is harmed, the Contractor will be held responsible.

B. Grade will be brought to the level of the finished grade by the Contractor. This is to include debris removal and any grading required to bring the landscaping finished grade

to the proper level for planting trees, shrubs and ground covers. Contractor shall grade for proper drainage.

C. Circular plant pits with vertical sides shall be dug by hand or machine methods for planting and transplanting of trees and shrubs.

D. Shrub pit diameter shall be a minimum of one foot greater than the spread of the root mass.

E. All transplanted material is to be replanted the same day it is dug or properly healed in and watered regularly to insure life.

F. Test excavated plant pits to determine if sufficient drainage is present for proper plant survival.

G. Fill the area between the pits, if the individual pits are arranged in a group, to the required grade with pine bark mulch 3" deep. Plant beds shall be neatly edged and kept free of weeds until the work is accepted.

3.4 EXCAVATION FOR PLANTING GROUND COVERS

A. Ground cover beds shall be scarified by hand or machine method to a minimum depth of 18". Four inches of pine bark additive and 20 pounds per 1000 square feet of Trident Rootzone Humus (or approved equal organic fertilizer) shall be uniformly incorporated into the soil to the full 18" of minimum depth.

3.5 DRAINAGE TEST FOR TREES

A. Tree pits shall be filled with water. If percolation is less than 100% within a period of twelve hours, drill an 8" auger to a depth of 2' below the bottom of the pit. Retest the pit. In case drainage is still unsatisfactory, notify the Landscape Architect in writing of the condition before planting the trees. Contractor is fully responsible for the warranty of the trees. If the tree is on a slope, provide a trench filled with stone and a 4" drain pipe to the point of nearest relief.

B. Drainage Test for Plants and Ground Covers shall be spot tested to insure proper percolation.

C. Balled and container plants shall be placed firmly upon scarified subgrade and backfilled with planting soil mixture. Remove all wire, cords, and burlap from the top of root ball. Hand tamp carefully around and under ball to fill all voids. Water during back filling. Form saucer from planting soil mixture in order to retain water.

D. Gently loosen outer roots of container grown plants to encourage outward growth.

E. Fertilizer shall be thoroughly mixed and soaked into the top 2" of soil for all plant pits.

3.6 TREE TRANSPORTATION

A. The Contractor shall be responsible not only for the safe transportation of the plants to the site but also their condition upon arrival. Trees with abrasions of the bark, sun scalds, fresh cuts, or breaks of limbs which have not completely callused will be rejected. Trees which have been damaged during transit will be replaced by the Contractor at no additional cost. All plant unit costs will reflect all above listed specifications.

3.7 TREE TAGS

A. All plants accepted at the nursery by the Landscape Architect shall be tagged with serialized self locking tags. Trees delivered to the site without these tags or with broken tags will be rejected. The tags shall remain on the trees until the Contractor has been given instructions by the Landscape Architect for removal.

3.8 PRUNING DECIDUOUS TREES

A. Deciduous trees and shrubs shall be pruned only to thin out heavy growth.

B. Do not top or remove terminal growing point or leader of any plant.

3.9 TREE STAKING

A. Stake or support trees as illustrated and described in the planting details on the drawings.

3.10 PREPARATION OF LAWN AREAS

A. Grade will be brought to a level of 4" below finished grade by the General Contractor. The landscape contractor will spread 2-3" of topsoil, fine grading all lawn areas to finish grade. All areas shall have smooth and continual grade between the existing and fixed controls such as walks and curbs. Roll, scarify, rake and level as necessary to obtain true, even and firm lawn surfaces. All finished grades shall meet approval of the Project Engineer before sodden or seeding operations begin.

3.11 AREAS TO RECEIVE SOD

A. Grade will be brought to the level of the finished grade by the Landscape Contractor. The Landscape Contractor will be responsible for fine grading. This is to include debris removal and any grading required to bring the finished topsoil grade to the proper level for laying sod. Contractor shall fine grade as necessary for uniformity and drainage.

B. On this grade spread specified fertilizer as per Manufacturer's recommendations and lime at a rate of 50 lbs. per 1000 square feet evenly over all areas to receive grass. A soil test shall be made prior to the beginning of fertilizing and liming and the quantities of the lime and fertilizer shall be adjusted, if necessary, to achieve a pH of 6.0 to 7.0.

C. Scarify prepared grade to depth of 6 inches, thoroughly incorporating fertilizer and lime into the top 6" of existing soil in all areas to be grassed. Caution shall be exercised to avoid damage to underground utilities. All building debris, vegetation, sticks and stones over 1 inch in any dimension shall be removed and the surface leveled and smoothed.

3.12 SODDING OPERATIONS

A. Delivery of sod shall be scheduled so as to allow laying of sod without delay. No sod shall remain stacked longer than 24 hours. In the event that sod cannot be laid immediately upon delivery, Contractor shall lay sod on as designated site, to be approved by the Landscape Architect. No sod shall overlap and it shall be lightly watered as necessary to keep moist.

B. Lay sod when bed is not excessively wet or frozen, but when soil is moist for a depth of 4".

C. Lay sod so that no voids occur. Sod shall be tamped and rolled by hand methods. The completed surface shall be true to finish grade and even and firm at all points.

D. Do not move heavy objects over areas to be sodded after the soil has been prepared.

E. A satisfactory stand is defined as a cover of living grass of specified species, after true leaves are formed in which no gaps larger than five (5) inches square occur.

F. Areas determined by the Landscape Architect to be solid rock will be exempt from this requirement.

3.13 REMOVAL OF EXISTING GRASS

A. The Contractor is to remove existing grass and weeds from all areas for planting and resodding as designated on the plans. The existing stands are to be removed to a maximum depth of 1" so as to not disturb existing tree roots where present in those areas.

B. Aerate with a tined tiller to break up the upper 3" lightly not to damage tree roots. Pick up solids for discarding and cut cleanly any roots damaged.

C. Spread a light layer of topsoil not more than 1" in depth over the aerated area and fine grade to meet acceptance by the Landscape Architect. Apply fertilizer and lime to these areas as specified previously under "Areas to receive Sod" or "Preparation of Planting Beds" which ever the case may be.

PART 4 CLEANUP AND PROTECTION

4.1 SUMMARY

A. Keep Project Site clean and orderly during planting operations.

B. Clear grounds of debris, superfluous materials and all equipment upon completion of Work. Remove from site to the satisfaction of the Landscape Architect and

Owner.

C. Protect all work and materials from damage due to landscape operations and operations by other contractors, trades and trespassers. Maintain protection until Date of Substantial Completion.

D. Contractor is responsible for theft of equipment and material at the site before, during and after installation, until Date of Substantial Completion of Work in total.

PART 5 LANDSCAPE MAINTENANCE

5.1 SUMMARY

A. Begin maintenance at commencement of Work of this Section and Continue until Substantial Completion and for thirty days after Substantial Completion of the project is issued, as part of Work of this section.

B. Provide labor, materials, equipment and means for proper maintenance of all materials on this project.

C. Contractor shall follow with maintenance methods described in these specifications.

5.2 SUPERVISION

A. Contractor shall provide quality workmanship with qualified landscape professionals to conduct the work in a manor that is satisfactory to the client.

B. The contractor shall have one point of contact for the client or client's representative to be able to reach out to if there is an issue that needs to be addressed.

5.3 MAINTENANCE OF TREES, SHRUBS, SOD, AND SEED

A. Maintain all plants in a growing, well formed, healthy condition by watering, fertilizing, pruning, weeding, spraying, wrapping, straightening, replacement or by other necessary maintenance operations.

5.4 WATERING

A. Monitor owner's automatic watering system and schedule for proper watering of all plant material.

B. Advise Landscape Architect immediately in writing of recommended alterations due to weather or other conditions.

C. Water landscaped (and sodded) areas not covered by automatic watering system as frequently as necessary to maintain proper moisture level, using the following schedule as a guide:

1. Twice a month during March, April, May
2. Once a week during June, July, August, September
3. Seasonally adjust for Fall and Winter Months

5.5 FERTILIZING

A. Apply four (3) times a year to trees, shrubs, ground cover, and sod as per manufacturer's recommended application rate.

5.6 MOWING

A. Mow grass to a height of 2 to 2.5" when it reaches a height of 3", or as directed by Landscape Architect. Seeded and sodded lawns shall have at least one mowing before receiving Substantial Completion.

5.7 RESODDING

A. Rework and re-sod areas which fail to show a uniform stand of grass. Perform work with the same kind of sod applied and repeated until all areas are covered with a uniform stand of grass.

5.8 RESEEDING

A. Rework and seed areas which fail to show a uniform stand of grass. Perform work with the same kind of seed applied and repeated until all areas are covered with a uniform stand of grass.

5.9 SITE ANNUAL PLANTING

A. Replace annual plantings according to schedule in Drawings. Blooming plants shall be replaced as necessary throughout specified Maintenance Period to maintain blooming condition.

5.10 PRUNING

A. Remove dead wood as it becomes evident. Remove living portions of plants only at the direction of Landscape Architect.

5.11 WILT-PROOFING

A. Apply approved anti-desiccant to all evergreen trees during last two weeks in October (except pines).

5.12 SPRAYING

A. For each spraying combine approved insecticide and fungicide to provide maximum protection for all plant materials. Three sprays annually; in March, May, and August.

5.13 WEEDING

A. Two applications (Spring and Fall) of chemical pre-emergent spray, approved. Two applications (during growing season) of chemical contact spray (Round-Up, by Monsanto, or approved equal). Every other week manually weed (by hand) during the time period reflected on the maintenance schedule (ref. plans); remove all visible weeds.

5.14 MULCHING

A. Keep planting areas neat and uniformly mulched to specified depth on a continuous basis. In addition to replacing and re spreading mulch as necessitated during the maintenance period completely replenish mulch in all planting areas one time.

5.15 STRAIGHTENING

A. Maintain plants in their stable upright position and at the proper grade by straightening and tightening staking and guying apparatus and as approved by the Landscape Architect.

5.16 CLEAN-UP

A. Keep all planting areas neat, weeded and uniformly mulched on a continuous basis. Clean up adjacent walks and pavement where lettered as a result of maintenance operations, on a continuous basis.

PART 6.0 ACCEPTANCE AND GUARANTEE

6.1 SUBSTANTIAL COMPLETION

A. Submit written requests for inspection for Substantial Completion to the Landscape Architect at least three calendar days prior to anticipated date of inspection and testing.

B. Substantial Completion cannot be granted and at the same time no further applications for payment shall be for more than 85% of the Contract until there has been a walk - thru for planting at which time a "punch list" will be written consisting of items to be addressed and corrected by the Contractor immediately. Depending on the extent of work on the "punch list", the Landscape Architect will determine the job to be "substantially complete" or pending the completion of the "punch list".

C. Submit Record Drawings and Maintenance manuals to the Landscape Architect with written request for inspection.

D. Review the "punch list" work jointly with the Owner and Landscape Architect for Substantial Completion of the total (contract) work.

E. Upon completion of repairs and replacements found necessary at the time of review, the Owner and Landscape Architect will confirm the date of Substantial Completion and

issue the written notice of Substantial Completion if all items on the punch list have been completed. If necessary, another punch list will be written to itemize any deficiencies still existing and will be attached to the written notice of substantial completion. The contractor shall complete all "punch list" items within 30 days while continuing maintenance.

F. The date of Substantial Completion will constitute the beginning date of the One - Year Guarantee. This date also constitutes the beginning of warranty responsibilities and acceptance by the Owner and Landscape Architect.

6.2 GUARANTEE

A. All work, products, equipment and materials for one year, beginning at the Date of Substantial Completion as per the written notice of Substantial Completion.

B. Make good any damage, loss, destruction or failure. Repairs and replacements shall be done promptly and at no additional cost to the Owner.

C. Repair damage to grade, plants, and other work as necessary.

D. If the replacement is not acceptable during or at the end of the Guarantee Period, the Owner may elect either subsequent replacement or credit. Replacement products shall have a similar one year guarantee from the time of replacement.

E. Guarantee applies to all unacceptable conditions or losses with exception of those due to acts of nature, vandalism or Owner neglect, as determined by Landscape Architect. Act of Nature includes, but may not be limited to, high winds of hurricane or tornado force, sleet, hail, freezing rain and extreme cold (as determined by Landscape Architect). Contractor agrees to replace losses due to Acts of Nature at (*20%*) less than original contract price for the damaged Work.

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PART 7.0 METHOD OF MEASUREMENT

7.1 METHOD OF MEASUREMENT

A. Plant material shall comply with these specifications and the plans in which each plant is listed, and will be measured by the number of units of each kind of plant and size specified.

B. Sod shall comply with these specifications and quantified by the plans. The units of sod shall be measured in square yards.

PART 8.0 PAYMENT

8.1 PAYMENT

A. All of the landscape work described in these specifications and drawings shall be bid as lump sum. However, a schedule of values with unit cots for soil, bed prep, mulch, plant material, and sod shall be submitted as an attachment to the Landscape Contractor's bid.

B. Bidder shall verify quantities by his own take-off from the Drawings and notify the Landscape Architect of discrepancies before submitting his Bid.

C. Topsoil, Soil Amendments, Staking & Guying, Tree Wrapping, Mulching, and Watering during the maintenance period shall be considered a subsidiary obligation of the plant material installation and included in the bid.

END OF SECTION 329300

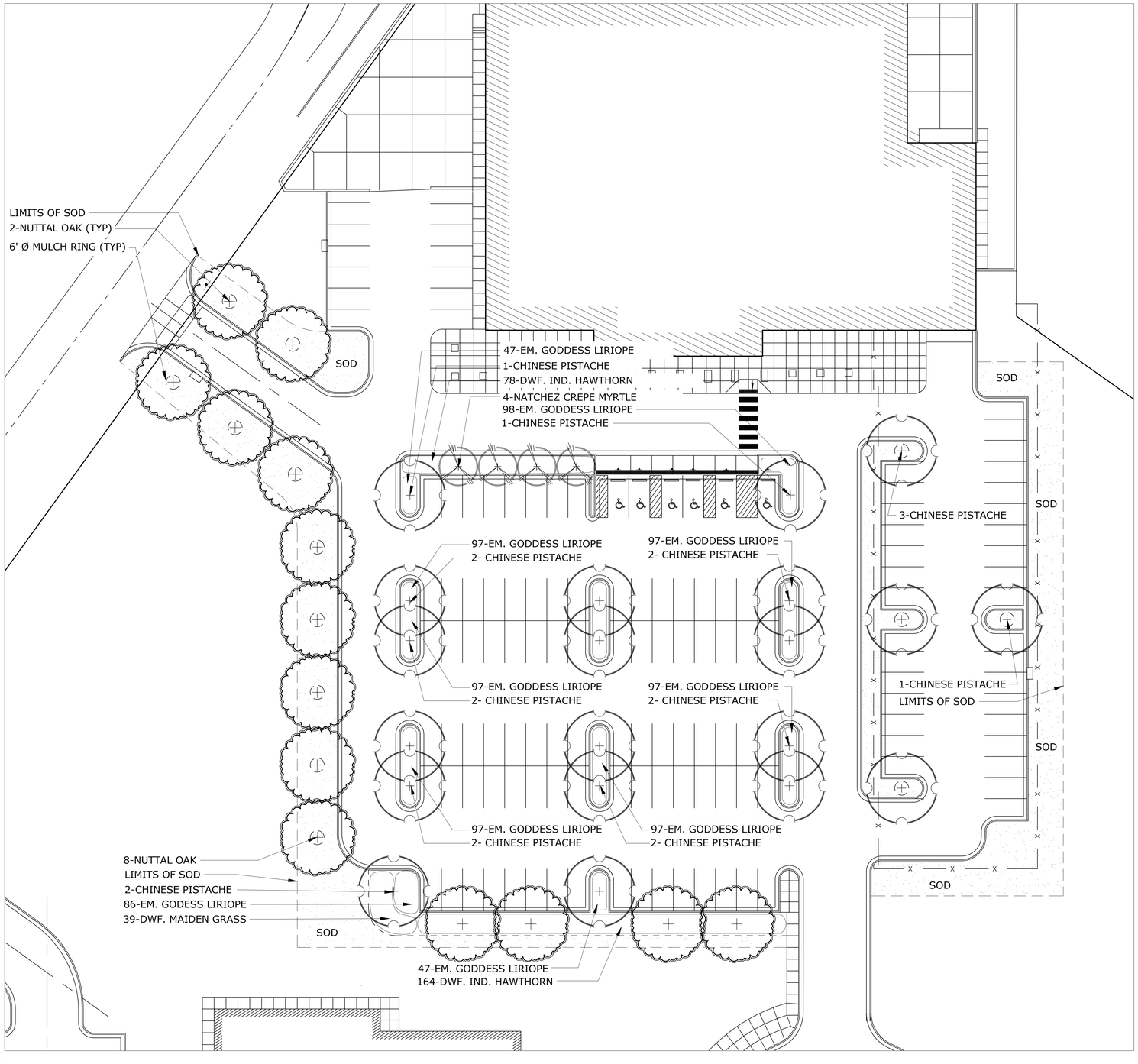
NO OTHER AREAS OF THE SITE SHALL BE ACCESSED OR USED BY THE CONTRACTORS WITHOUT COORINDATION WITH THE OWNERS REPRESENTATIVES.
REWORK EXISTING FENCE/GATES AS INDICATED / REQUIRED
FRONT GATE - PRIMARY ACCESS - KEPT LOCKED BY CONTRACTORS WHEN NOT ONSITE
CONTRACTOR TRAFFIC SHALL COME FROM 31ST AVE, ST JOHN ST, AND DONALD AVE
MAIN PSB SITE ENTRANCE REMOVE/RELOCATE EXISTING GATES/OPENING AS REQUIRED
EXCEPT WHERE OTHERWISE DRAWN OR SPECIFIED, EXISTING ASPHALT PARKING LOTS TO REMAIN IN PLACE AND BE USED BY CONTRACTORS FOR DELIVERIES, LAYDOWN, STORAGE, EMPLOYEE PARKING, AND ANY OTHER REQUIRED ACTIVITIES.
DONALD AVENUE
PUBLIC SAFETY BUILDING
EXISTING PERIMETER FENCE
MERIDIAN HOUSING AUTHORITY
REAR GATE - SECONDARY ACCESS IF NEEDED.
EXISTING PERIMETER FENCE
NO CONTRACTOR TRAFFIC DOWN E ST FROM 22ND AVENUE
E Street
Logistics Layout
April 14, 2021

PLANT USE LIST

quant.	botanical name	common name	size	remarks
14	Qurercus nuttallii	NUTTALL OAK	14'-16' HT.	MIN. 65 GAL., MIN. 5-6' SPREAD, 3.5-4.5" CAL., FULL, WELL BRANCHED, SINGLE TRUNK SPECIMEN
19	Pistacia chinensis	CHINESE PISTACHE	12'-14' HT.	MIN. 65 GAL., MIN. 4-6' SPREAD, 3-3.5" CAL., FULL, WELL BRANCHED, SINGLE TRUNK SPECIMEN
4	Lagerstroemia indica x fauriei	NATCHEZ CREPE MYRTLE	10'-12' HT.	MIN. 45 GAL., MIN. 3'-5' SPREAD, FULL WELL BRANCHED, SINGLE-TRUNK SPECIMEN
242	Raphiolepis Indica 'Snowbank'	SNOWHITE DWARF INDIAN HAWTHORN	30-36" HT.	MIN. 3 GAL., @ 3' O/C, FULL, WELL BRANCHED PLANTS, TRIMMED HEDGE
39	Miscanthus sinensis 'Adagio'	DWARF MAIDEN GRASS	24-30" HT.	MIN. 3 GAL., @ 3' O/C; FULL, WELL BRANCHED PLANTS, STAGGER CENTERS
860	Liriope muscari 'Emerald Goddess'	EMERALD GODDESS LIRIOPE	6-8" HT.	MIN. 4" POTS, @ 18" O/C, FULL, WELL BRANCHED PLANTS, STAGGER CENTERS

NOTE: QUANTITIES SHOWN IN THE "PLANT USE LIST" ARE SOLELY FOR THE CONVENIENCE OF THE LANDSCAPE CONTRACTOR. CONTRACTOR TO VERIFY QUANTITIES SHOWN ON THE "PLANTING PLAN" AGAINST THOSE SHOWN IN THE "PLANT USE LIST", AND PLANT THOSE QUANTITIES SHOWN ON THE "PLANTING PLAN".

PLANTS: LANDSCAPE CONTRACTOR SHALL SUBMIT PHOTOS WITH SCALE REFERENCES OF ALL PLANTS & TREES TO THE LANDSCAPE ARCHITECT FOR APPROVAL IN WRITING PRIOR TO HAVING THEM DELIVERED TO THE SITE.



GENERAL PLANTING NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SITE INSPECTION PRIOR TO LANDSCAPE CONTRUCTION IN ORDER TO ACQUAINT HIMSELF/HERSELF WITH EXISTING CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND UTILITIES BEFORE BEGINNING CONSTRUCTION.

2. CONTRACTOR SHALL VERIFY PLANT QUANTITIES FROM THE PLAN AND REPORT DIFFERENCES TO THE OWNER'S REPRESENTATIVE FOR ADJUSTMENTS.

3. ALL PLANT MATERIALS ARE SUBJECT TO APPROVAL OR REFUSAL BY THE OWNERS REPRESENTATIVE AT THE JOB SITE.

4. CONTRACTOR SHALL LAYOUT ALL PLANT MATERIAL FOR REVIEW BY OWNER'S REPRESENTATIVES APPROVAL PRIOR TO PLANTING. A MINIMUM 48 HOURS NOTICE SHOULD BE GIVEN AND ANTICIPATED BY THE CONTRACTOR FOR THIS REVIEW.

5. CONTRACTOR SHALL AMEND ALL PLANTING AREAS WITH 60% APPROVED ORGANIC SOIL MIX AND 40% APPROVED SANDY LOAM TOPSOIL PROPER DRAINAGE SHALL BE OBTAINED IN ALL AREAS. DO NOT BACK FILL HOLES WITH EXISTING SUBGRADE.

6. PLANTS SHALL BE WELL FORMED, VIGORUS, GROWING SPECIMENS WITH GROWTH TYPICAL OF VARIETIES SPECIFIED AND SHALL BE FREE FROM INJURY, INSECTS AND DESEASES. PLANTS SHALL EQUAL OR SURPASS QUALITY AS DEFINED IN THE CURRENT ISSUE OF NURSERY "AMERICAN STANDARDS FOR NURSERY STOCK" AS PUBLISHED BY THE AMERICAN NURSERYMEN, INC.

7. ALL PLANT MATERIAL SHALL BE CONTAINER GROWN UNLESS OTHERWISE SPECIFIED.

8. ALL PLANTING PITS SHALL BE DOUBLE THE SIZE OF THE ROOT BALL OR CONTAINER.

9. PROVIDE A TREE PIT FOR DRAINAGE. AUGER A 8" DIAMETER HOLE 36" DOWN AT THE BOTTOM OF THE TREE PIT AND FILL WITH CRUSHED STONE. TEST AGAIN FOR PROPER PERCOLATION. REF. DETAILS ON SHEET L101

10. FRONT ROW OR SHRUBS SHALL BE PLANTED A MINIMUM OF 24" BEHIND BED LINE AT LAWNS OR WALKS AND MINIMUM 36" BACK OF CURB AT PARKING AREAS.

11. BACK ROW OF SHRUB PLANTING SHALL BE PLANTED 36" OFF FACE OF BUILDING WALL. GROUND COVERS SHALL BE 12" OUT FROM BUILDING AS REQUIRED BY PLANT SPECIFICATIONS.

12. EXCAVATE EDGE OF ALL PLANTING BEDS TO 4" DEPTH TO FORM A NEAT CRISP DEFINITION.

13. PLANTING BEDS SHALL BE 6-8" ABOVE SOD GRADE.

14. ALL PLANTING BEDS AND TREE PITS SHALL BE MULCHED WITH A 3" SETTLED LAYER OF APPROVED MULCH ON LEVEL AREAS AND APPROVED MULCH ON SLOPES.

15. GRADE ALL AREAS FOR APPROVAL BY LANDSCAPE ARCHITECT BEFORE SODDING.

16. SEASONAL COLOR SHALL BE PLANTED IN FLOWERING STATE.

17. CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL, INCLUDING GRASS FOR ONE FULL YEAR FROM DATE OF WRITTEN SUBSTANTIAL COMPLETION. (REFERENCE SPECIFICATIONS)

18. ALL TREES SHALL BE STAKED AND TIED IN THE FIELD BY AN APPROVED METHOD. REMOVE ALL GUY WIRES AND STAKES AT THE END OF THE GUARANTEE PERIOD.

19. TOPSOIL: TOPSOIL SHALL BE FERTILE, FRIABLE, SANDY LOAM AND A NATURAL SURFACE SOIL OBTAINED FROM WELL AREAS REVIEWED BY THE LANDSCAPE ARCHITECT AND POSSESSING CHARACTERISTICS OF REPRESENTATIVE SOILS IN THE PROJECT VICINITY THAT PRODUCE HEAVY GROWTHS OF CROPS, GRASS OR OTHER VEGETATION.
- TOPSOIL SHALL BE FREE OF SUBSOIL, BRUSH, ORGAINIC LITTER OR OBJECTIONABLE WEEDS, CLAY, CLOTS, STUMPS, STONES, ROOTS OR OTHER MATERIAL HARMFUL TO PLANT MATERIALS. SHOULD REGEERATIVE MATERIALS BE PRESEINT IN THE SOIL, CONTRACTOR SHALL ERADICATE AND REMOVE SUCH GROWTH, BOTH SURFACE AND ROOT, WHICH MAY APPEAR IN THE IMPORTED MATERIAL WITHIN ONE YEAR FOLLOWING ACCEPTANCE OF THE WORK.
- TOPSOIL SHALL NOT BE HANDLED IN A FROZEN MUDDY CONDITION. THE ACIDITY RANGE SHALL BE BETWEEN 5 AND 7, INCLUSIVE. THE MECHANICAL ANALYSIS OF THE SOIL SHALL BE AS FOLLOWS:

SIEVE SIZE	PERCENT PASSING
1 INCH MESH	99-100%
1/4 INCH MESH	97-99%
NO. 100 MESH	40-60%
NO. 200 MESH	20-40%

20. STOCKPILE MATERIAL THAT DOES NOT MEET THE REQUIREMENTS MAY, AT THE OPTION OF THE CONTRACTOR, BE IMPROVED BY SCREENING AND THE ADITION OF ORGANIC MATTER AND CHEMICAL ADMIXTURES.

21. APPROVED PRE-EMERGENT WEED CONTROL SHALL BE SPREAD PER MANUFACTURER'S RATES AFTER ALL PLANTINGS HAVE BEEN INSTALLED, IN ALL PLANTED AREAS PRIOR TO MULCHING WITH PINE STRAW.

22. MAINTAIN ALL LANDSCAPE WORK FOR 30 DAYS AFTER SUBSTANTIAL COMPLETION FOR THE ENTIRE PROJECT HAS BEEN PROVIDED IN WRITING TO THE OWNER FROM THE PROJECT ARCHITECT.

23. THE LANDSCAPE ARCHITECT IS NOT RESPONSIBLE FOR THE MEANS AND METHODS OF APPROPRIATENESS OF THE INSTALLATION PROCEDURES UNDERTAKEN BY ANY CONTRACTOR AND IS NOT RESPONSIBLE FOR JOB SAFETY.

NORTH

0 10' 20'

cpladesignplanning.com
CHRISTIANPREUS Landscape Architecture
Ocean Springs, Mississippi . Fairhope, Alabama . P 855.539.5086 . F 855.539.5086

Know what's below. Call before you dig.

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Robert E. Luke, Architect
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MERIDIAN, MISSISSIPPI 39302
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F 601.693.5649

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PROJECT INFORMATION

PROJECT:

Lauderdale County Public Safety Building

PROJECT ADDRESS:

Village Fair Mall Site
612 22nd Avenue
(Winn-Dixie / LabCorp Bulling)

YATES CONSTRUCTION

KEY PLAN

ACTIVE DESIGN PHASE

- ☐ FOR REVIEW ONLY
- ☐ FOR PERMITTING ONLY
- ☐ SCHEMATIC DESIGN
- ☐ DESIGN DEVELOPMENT
- ☐ CONSTRUCTION BIDDING
- ■ CONSTRUCTION DOCUMENTS
- ☐ AS-BUILT RECORD SET

SEAL

REGISTERED LANDSCAPE ARCHITECT CHRISTIAN HOWARD PREUS STATE OF MISSISSIPPI

REVISIONS/SUBMISSIONS

NO.	DATE	DESCRIPTION

SHEET TITLE

LANDSCAPE PLAN FOR LAUDERDALE PUBLIC SAFETY BUILDING.

Meridian, Mississippi

PROJECT NO.: 19-4894B

SHEET ISSUED: Project Issue Date

DRAWN BY: CRL

REVIEWED BY: CHP

SHEET NO. L-100

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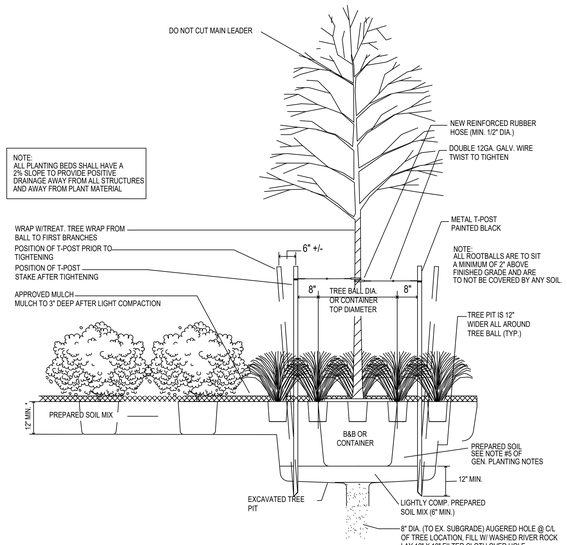
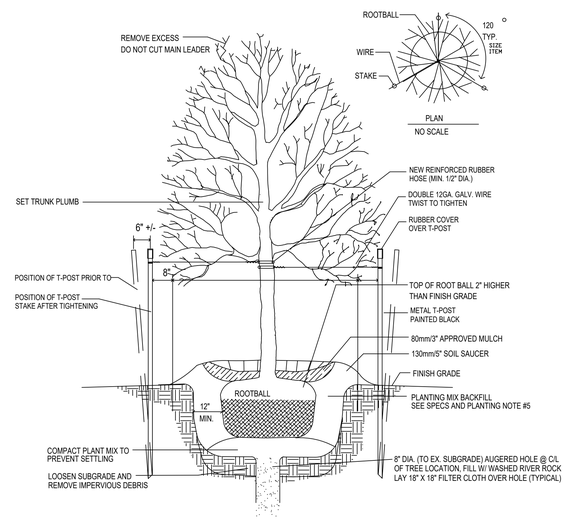
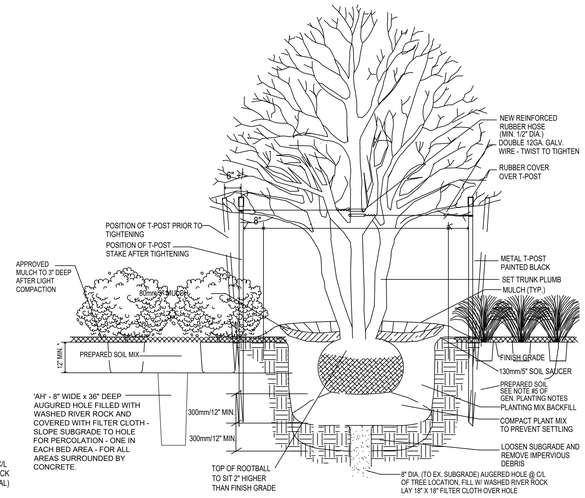


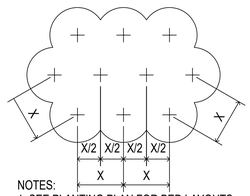
1 TYPICAL PLANTING SECTION IN BED AREAS
NOT TO SCALE



2 TYPICAL TREE PLANTING & GUYING IN LAWN
NOT TO SCALE

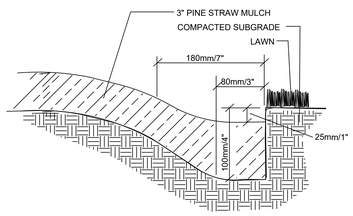


3 TYPICAL MULTI-TRUNK TREE PLANTING IN BED AREAS
NOT TO SCALE



NOTES:
1. SEE PLANTING PLAN FOR BED LAYOUTS.
2. ROWS SHALL BE STRAIGHT & PARALLEL UNLESS BED AREA FOR PARTICULAR PLANT IS SHOWN IN A CIRCULAR OR IRRREGULAR AREA, THEN AS DIRECTED BY LANDSCAPE ARCHITECT.
3. SEE "PLANT USE LIST" FOR PLANT SPACING.

4 PLANT SPACING DETAIL
NOT TO SCALE



NOTE: TRENCH EDGE TO BE LOCATED BETWEEN PLANTING BEDS AND ALL LAWN AREAS.

5 TRENCH BED EDGE DETAIL
NOT TO SCALE

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Buildi

PROJECT ADDRESS:

Village Fair Ma
612 22nd Av
(Winn-Dixie / LabCorp B

YATES CONSTRUCTION

KEY PLAN

ACTIVE DESIGN PHASE
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- FOR PERMITTING O
- SCHEMATIC DES
- DESIGN DEVELOPM
- CONSTRUCTION BIDD
- CONSTRUCTION DOCUME
- AS-BUILT RECORD

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SHEET TITLE
LANDSCAPE DETAILS FOR LAUDERDALE PUBLIC SAFETY BUILDING.

Meridian, Mississippi

PROJECT NO.: 19-
SHEET ISSUED: Project Issue Date
DRAWN BY: CRL
REVIEWED BY: CHP
SHEET NO. L-101

IRRIGATION NOTES

1. The irrigation system is diagrammatic based upon the information provided by the owner or the owner's representative. The successful contractor is responsible to install a system that will properly cover all areas indicated on the design. Actual layout of piping, sprinkler heads, valves, controllers and other related equipment shall be determined on site. Minor field changes shall be made at no additional cost to the owner.

It is the responsibility of the irrigation contractor to be familiar with all grade differences, locations of walls, structures and utilities and make the necessary adjustments to accommodate the irrigation system as shown on the drawings. There may be times when it is obvious in the field that unknown obstructions, grades or dimensions that exist might not have been considered in the engineering, such obstructions should be brought to the attentions of the owner's authorized representative. In the event that this notification is not performed, the irrigation contractor shall assume full responsibility for any revisions and costs that occur.

2. This system shall be installed using accepted and quality installation standards as used in the industry. All manufacturers specifications will be followed.

3. Mainline shall be buried a minimum of 12" of cover and a maximum of 18" of cover. Lateral line piping a minimum of 12" of cover. All backfill surrounding the pipe shall be cleaned of materials larger than 1" in size. Backfill shall be added in 6" increments and mechanically tamped.

4. There will be no substitutions or changes to the irrigation design allowed without direct, written approval from the Irrigation Consultant.

5. System design is based on pressure and flow information provided by others, static pressure of 35 psi and the size of the point of connection (P.O.C.) is as indicated on the drawing. The irrigation contractor shall verify water pressures prior to construction. Report differences between requirements and the actual readings to the owner's representative so that any zone adjustments can be made prior to installation.

6. Piping shown in paved area without sleeve is diagrammatic and shall be located inside of the planted area or turf area approximately 1' from any hardscape.

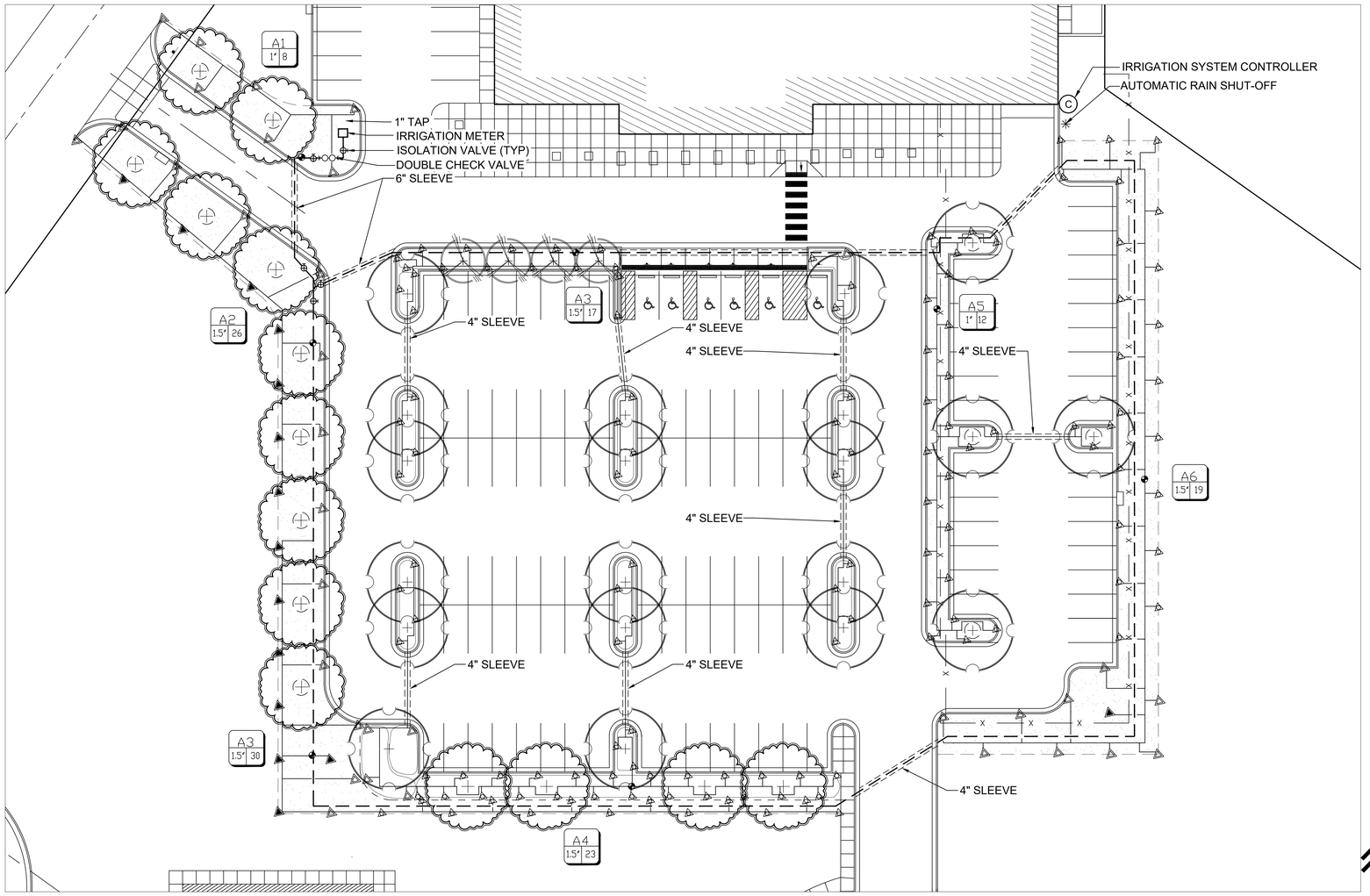
7. All valves shall be placed in valve boxes as shown in the details and all electrical connections shall be sealed with waterproof connectors. Control wire shall be solid copper wire U.L. approved for direct burial in the ground. See details.

8. Controllers, meters, taps and backflow locations are as shown on the plan or as stated in the details and legend. All information is to be verified prior to any installation of the project.

9. The Irrigation Contractor is responsible for all clean up associated with his work.

10. Irrigation contractor shall all provide the first winterization, spring turn on, head adjustments and controller maintenance in bid.

11. Costs associated with irrigation meter(s) shall be the responsibility of the irrigation contractor and shall be included in his/her bid.



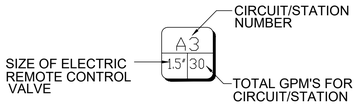
IRRIGATION LEGEND:

- RAINBIRD RVAN 17-24 ROTATOR NOZZLE ON 1812 SPRINKLER, USE 6" RISER IF NECESSARY
- RAINBIRD R17-24 SERIES ROTATOR NOZZLE ON 1812 SPRINKLER, USE 6" RISER IF NECESSARY
- RAINBIRD RVAN 13-18 ROTATOR NOZZLE ON 1812 SPRINKLER, USE 6" RISER IF NECESSARY
- RAINBIRD RVAN 8-14 ROTATOR NOZZLE ON 1812 SPRINKLER, USE 6" RISER IF NECESSARY
- RAINBIRD RVAN STRIP SERIES NOZZLE ON 1812 SPRINKLER, USE 6" RISER IF NECESSARY
- RAINBIRD, PEB SERIES, 1" AND 1 1/2" EL. REMOTE CONTROL VALVE (OR APP'D. EQ.), IN MIN. 12" ROUND BOX, FILL BOTTOM W/PEA GRAVEL, (SEE DETAIL)
- C — RAINBIRD ESP-LX TWO-WIRE CONTROLLER. PEDESTAL OR WALL MOUNTED. TO BE DETERMINED IN FIELD BY LANDSCAPE ARCHITECT. LOCATION SHOWN ON DRAWING IS A GENERAL REFERENCE. FINAL LOCATION TO BE DETERMINED WITH LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE IN THE FIELD. (SEE SHEET L201).
- WIRELESS RAIN SENSOR
- DOUBLE CHECK VALVE (SEE DETAIL 2, SHEET L201)
- ISOLATION VALVE - (MAIN SIZE), 125# W.O.G., BRASS BALL VALVE IN AMETEK 10" ROUND BOX, FILL BOTTOM WITH PEA GRAVEL (SIMILAR TO CONTROL VALVE) ISOLATION VALVES (IV) SHALL BE IN A LOCKABLE BOX.
- IRRIGATION MAINLINE, PVC SDR 21, CLASS 200BE SIZE AS NOTED ON DRAWINGS
- IRRIGATION LATERAL PIPE, PVC SDR 21, CLASS 200BE
- SCHEDULE 40 PVC SLEEVE - SIZE AS NOTED ON DRAWING

PIPE SIZING CHART:

CONTRACTOR TO SIZE EACH CIRCUIT/STATION LATERAL PIPING USING THE FOLLOWING:

PIPE SIZE	MAX. GPM'S
1/2"	6
3/4"	10
1"	16
1 1/4"	28
1 1/2"	35
2"	55
3"	120



EACH CIRCUIT/STATION SHOWN HEREIN HAS THE NUMBER OF GPMS REQ'D. FOR THAT CIRCUIT/STATION. EACH CIRCUIT/STATION IS DESIGNED BASED ON 30-35PSI AT THE VALVE.

1/8" = 1'-0"

0 10' 20'

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REGISTERED CHRISTIAN PREUS LANDSCAPE ARCHITECT STATE OF MISSISSIPPI

REVISIONS/SUBMISSIONS

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SHEET TITLE

IRRIGATION PLAN FOR LAUDERDALE PUBLIC SAFETY BUILDING.

Meridian, Mississippi

PROJECT NO.: 19-

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DRAWN BY: CRL

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SHEET NO. I-100

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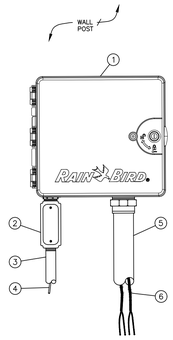
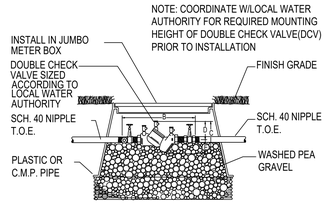


1. TWO-WIRE DECODER CONTROLLERS (2 REQUIRED): RAIN BIRD IQ ESP-LXD SATELLITE TWO-WIRE DECODER CONTROLLER WITH OPTION TO ADD STATIONS, PROVIDE IQ NCC ETHERNET CARTRIDGE IN PLASTIC CABINET WITH WALL MOUNT. INSTALL CONTROLLERS AND CABINET ON WALL PER MANUFACTURER'S RECOMMENDATIONS.
2. JUNCTION BOX
3. 1-INCH CONDUIT AND FITTINGS TO POWER SUPPLY
4. POWER SUPPLY WIRE
5. 2-INCH CONDUIT AND FITTINGS FOR TWO-WIRE CABLE
6. MAXICABLE TWO-WIRE PATH TO DECODERS USE A DIFFERENT CABLE JACKET COLOR FOR EACH PATH

NOTE - PROVIDE AND INSTALL APPROPRIATE GROUND RODS AND WIRING FOR EACH CONTROLLER AS NECESSARY AND AS RECOMMENDED BY MANUFACTURER.

NOTES:
1. IQ ESP-LXD CONTROLLER COMES WITH 50 STATIONS AVAILABLE. TWO ADDITIONAL 75 STATION ESPLXD-SUM75 MODULES MAY BE ADDED TO EXPAND THE CONTROLLER UP TO 200 TOTAL STATIONS.
2. USE STEEL CONDUIT FOR ABOVE GRADE AND SCH 40 PVC CONDUIT FOR BELOW GRADE CONDITIONS.
3. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS.

1 ESP-LXD TWO-WIRE CONTROLLER (WITH ETHERNET)
NOT TO SCALE

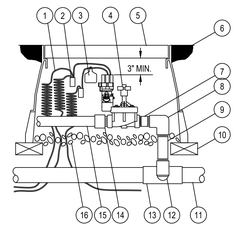


DIMENSIONS (INCHES)

SIZE	B	C	D	E	WIDTH
3/4"	12-1/4"	6-7/8"	4"	2-7/8"	2-3/4"
1"	13-3/4"	6-7/8"	4-3/8"	2-7/8"	2-3/4"
1-1/2"	16-3/4"	9-7/8"	5-1/3"	4-7/8"	4-1/4"
2"	17-3/4"	9-7/8"	6-3/8"	4-7/8"	4-1/4"

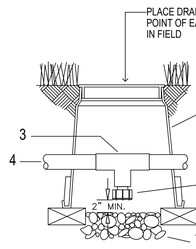
CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES AND ORDINANCES IN REFERENCE TO INSTALLATION AND VENTING OF BACKFLOW PREVENTION DEVICE.

2 DOUBLE CHECK VALVE
NOT TO SCALE



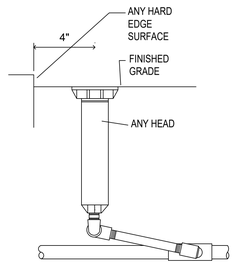
1. 30-INCH LINEAR LENGTH OF WIRE, COILED
2. WATERPROOF CONNECTION RAIN BIRD SPLICE-1 (1 OF 2)
3. ID TAG: RAIN BIRD VID SERIES
4. REMOTE CONTROL VALVE: PEB-PRS-D
5. VALVE BOX WITH COVER: RAIN BIRD VB-STD
6. FINISH GRADE/TOP OF MULCH
7. PVC SCH 80 NIPPLE (CLOSE)
8. PVC SCH 40 ELL
9. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
10. BRICK (1 OF 4)
11. PVC MAINLINE PIPE
12. SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND SCH 40 ELL
13. PVC SCH 40 TEE OR ELL
14. PVC SCH 40 MALE ADAPTER
15. PVC LATERAL PIPE
16. 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

3 PEB-PRS-D ELECTRIC REMOTE CONTROL VALVE
NOT TO SCALE

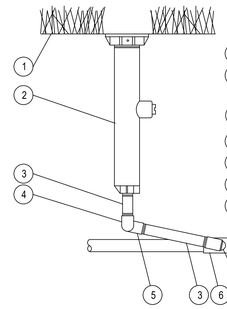


1-FINISH GRADE
2-VALVE BOX W/COVER MIN. 6" SIZE
3-PVC SCH 40 TEE
4-PVC LATERAL PIPE
5-FILTERED DRAIN VALVE: RAIN BIRD 16A-FDV-075
6-BRICK (1 OF 2)
7-MIN. 12"X12"X12", 3/4" WASHED GRAVEL BED

4 DRAIN VALVE
NOT TO SCALE

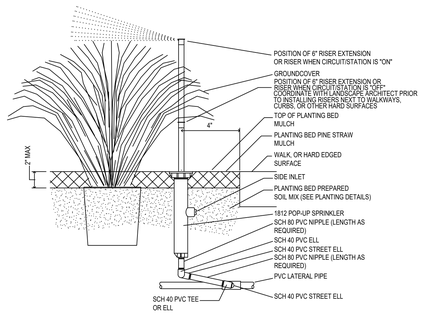


5 ANY HEAD
NOT TO SCALE

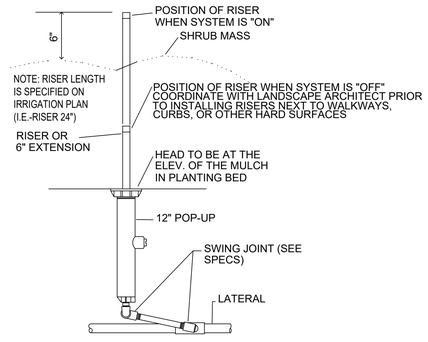


1. FINISH GRADE/TOP OF MULCH
2. POP-UP SPRAY SPRINKLER: RAIN BIRD 1806 -SAM-PRS WITH 1800 VPC WITH RAIN BIRD ROTARY NOZZLE
3. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
4. PVC SCH 40 ELL
5. PVC SCH 40 STREET ELL
6. PVC SCH 40 TEE OR ELL
7. PVC LATERAL PIPE

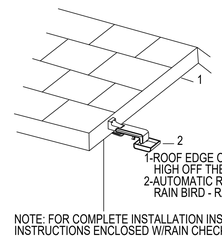
6 1806 HEAD IN LAWN
NOT TO SCALE



7 1812 W/ 6" RISER EXTENSION IN PLANTING BED
NOT TO SCALE



8 12" POP-UP W/ RISER
NOT TO SCALE



1-ROOF EDGE OR OTHER HIGH OFF THE GROUND SURFACE
2-AUTOMATIC RAIN SHUTOFF: RAIN BIRD - RAIN CHECK

NOTE: FOR COMPLETE INSTALLATION INSTRUCTIONS, SEE INSTRUCTIONS ENCLOSED W/RAIN CHECK

9 AUTOMATIC RAIN SHUT-OFF
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