

**Indian River County
Purchasing Division
1800 27th Street
Vero Beach, FL 32960
Phone (772) 226-1416**



ADDENDUM NO. 1

Date: **August 30, 2023**

Project Name: **Traffic Operations Facility, IRC-2104**

Bid Number: **2023059**

Bid Opening Date: **Wednesday, September 13, 2023 at 2:00 PM**

This addendum is released to provide answer/ questions received to date. All information provided herein is hereby incorporated into the bid documents. **This addendum must be acknowledged where indicated on the Bid form, or the bid may be declared non-responsive.**

The following questions have been received:

- Question 1. Are there permit fees to be included in the bid?
Answer 1. **The Contractor is not to include any permit, impact, or inspection fees payable to Indian River County in the bid. Any additional or outstanding fees will be paid by the County (with the exception of re-inspection fees).**
- Question 2. Will the County cover Builder's Risk insurance being it's the County's project?
Answer 2. **No. County policy is to have the Contractor purchase the Builder's Risk insurance. The County is the owner of project but the Contractor is responsible for management, execution and completion of the project, therefore they are required to purchase the Builder's Risk insurance.**
- Question 3. Could temporary utilities be supplied by the County?
Answer 3. **Speaking with FPL regarding temporary power, their response was "Yes, we normally can provide a temporary power source if we have existing facilities. They did confirm there are facilities bordering the property. Regarding temporary water supply, the successful Bidder can inquire about water service needs with the County Utilities Department (IRCUD). IRCUD may offer use of a hydrant meter and/or possibility of a temporary meter on the site with the Contractor responsible for the monthly charges.**
- Question 4. How long will the permit with FAA take?
Answer 4. **A review of the FAA regulations website suggests submitting for a permit 45 days prior to beginning of project.**
- Question 5. What is the estimated or set budget for Bid No. 2023059, Traffic Operations Facility?
Answer 5. **Architect's Estimate is \$6,677,377**

ADDITIONS/CHANGES:

- **Division 2 – Technical Provisions Section 160 – Stabilizing shall be changed:**

Item of Payment

Bid Item No. 160-4A Type B Stabilization (Sidewalks and Laydown Area on East Side of Site), 6" Thick
- Per Square Yard

Bid Item No. 160-4B Type B Stabilization (Car Parking and Service Yard Area) 8" Thick – Per Square
Yard

- **Mechanical Sheet M6.1** - has been revised with:

Note 18: Provide Trane Building automated controls for Integration with the County building management system. Contractor to coordinate with County and Manufacturer.

ATTACHMENTS: Meeting Minutes
Sign In Sheet
Revised Itemized Bid Schedule – Addendum No. 1
Revised Civil Plan Sheet C2
Revised Mechanical Sheet M6.1



Board of County Commissioners

1801 27th Street
 Vero Beach, Florida 32960-3365
 Telephone: (772) 567-8000
 Fax: (772) 778-9391

PRE-BID MEETING *MINUTES*
AUGUST 23, 2023 AT 2:00 P.M.
INDIAN RIVER COUNTY ADMINISTRATION BUILDING
 Room A1-303 Building A
TRAFFIC OPERATIONS FACILITY
PROJECT NO. IRC-2104

The following meeting notes set forth our understanding of the discussions and decisions made at the subject meeting. If no objections, questions, additions, or comments are received within five (5) working days from issuance of the meeting notes, we will assume that our understandings are correct. The project will move forward according to the bid plans and specifications and the understandings herein.

Project Number: IRC-2104
 Bid Number: 2023059

INTRODUCTIONS / SIGN IN SHEET:

This was the PRE-BID MEETING; This meeting was recorded as part of the project records.

PROJECT DESCRIPTION:

The proposed project includes a single-story concrete block structure with a total of 16,617 square feet. The space will be split between office, shop, and warehouse. The roof will be a modified bitumen system on rigid insulation and mechanically attached to a galvanized metal deck on steel bar joists. Two covered parking structures are proposed consisting of metal roof over rigid steel frame. Work to also include demolition of the existing site in two phases, leaving the existing shop until phase II to demo. An existing parking area will be modified to create a new entrance/exit. Site utility work is also necessary to complete the project.

CONTRACT DETAILS

Bid opening: Wednesday, September 13, 2023 at 2:00 PM
 Contract time: 335 days to substantial completion
 365 days to final completion
 Liquidated Damages: \$3,819.00 per day*

¹ Reference for liquidated damages amount "Standard Specifications for Road & Bridge Construction", Florida Department of Transportation (FDOT) FY 2023-24, Section 8-10.2 for projects over \$5,000,000 but less \$10,000,000 than . THE ACTUAL LIQUIDATED DAMAGES AMOUNT WILL BE BASED ON THE CONTRACT AWARD AMOUNT AND WILL BE DETERMINED USING THE REFERENCED FDOT CRITERIA.

CONTACTS BIDDING PROCESS

All communications concerning this bid shall be directed to Indian River County Purchasing Division at purchasing@ircgov.com.

PROJECT CONSULTANTS:

Donadio & Associates Architects PA, A Spiezle Group Inc. Company

UTILITIES

AT&T
 Florida Power and Light,
 Indian River County Utilities

PROJECT REQUIREMENTS:

- Contractor is registered with and will use the Department of Homeland Security's E-Verify system (www.e-verify.gov) to confirm the employment eligibility of all newly hired employees for the duration of this agreement, as required by Section 448.095, F.S. Contractor is also responsible for obtaining an affidavit from all subcontractors, as required in Section 448.095(5)(b), F.S., stating the subcontractor does not employ, contract with, or subcontract with an unauthorized alien.
- Submittals and RFI's will be submitted by email to the County Project Manager.
- Invoicing shall be submitted on a monthly basis and must include Consent of Surety, all applicable release of liens, and all other documents as noted in the Contract Documents.
- Any change orders, revisions, time extensions and weather days need to be submitted to Indian River County. Weather letters will be issued on a monthly basis.
- Summary of required Contractors bid forms can be found on the submittal's checklist (Section 00200, Instructions to Bidders, Article 15 – Submittal of Bid).
- Subcontractors – per Contract Documents Section 00458, list all applicable subcontractors for the project. Contractor and all subcontractors must be licensed with Indian River County Building Division.

OTHER ISSUES

- Bidders to review plan documents and provide comments to Indian River Purchasing Department (purchasing@ircgov.com) as soon as possible. No further comments or questions will be addressed after midnight, Sunday **September 3, 2023**.
- Notice To Proceed expected to be given November 1, 2023. Time consideration will be given when long lead items (such as windows, mechanical equipment) have been secured and an estimated delivery can be worked into the schedule.
- Governing Standards and Specification for this project will be FY 2023, FDOT Standard Specifications for Road and Bridge Construction (apply to drainage work, compaction and site work) and the Indian River County Traffic Signal Specifications.
- All testing will be performed per FDOT specifications, this will include asphalt, concrete.
- Contractor shall submit material and storage staging area for approval.
- All areas disturbed by the Contractor will need to be restored to original conditions or better.
- Contractor shall submit a "Hurricane Preparedness" plan prior to Notice to Proceed.
- IRC work hours are Monday to Friday from 7:00 AM to 5:00 PM.
- Contractor shall maintain access for citizens and employees of the County complex in addition to sanitation, US Postal Service, and emergency vehicles at all times.
- There will be an Addendum (that will include the Meeting Minutes) – Bidders to review plan documents and provide comments to Purchasing by midnight, Sunday **September 3, 2023**.
- County has obtained: St Johns Permit, Indian River Farms Permit, County Land Clearing Permit, County Tree Removal Permit, County Stormwater Permit, County Utilities Permit. **County Building Permit can only be issued to the licensed Contractor performing the work.**

DISCUSSION

Rob Skok (IRC Engineering) clarified the following:

- Pay Item Division 15 – Mechanical included Plumbing
- Division 12 – Furnishings, Bidders should familiarize themselves with the General Notes on Architectural Plan Sheet A2.10 regarding the furniture/fixtures to be provided by Owner and installed by Contractor
- The wall-mounted ADA sign in the service parking lot on Civil Plan Sheet C-2 was not counted as one of the signs but needs to be included with the building

The Itemized Bid Schedule will be revised with the following corrections/changes:

- 160-4A Type B Stabilization for the sidewalk and vehicle areas will be bid as 6” for the sidewalk and 8” for the vehicle areas. (Civil Plan Sheet C2 show revision)
- 515-1-2 Pipe Hand Rail – quantity change from 12’ to 24’
- 711-11-170 Thermoplastic Pavement Markings and Arrows - quantity change from 6 to 7
- 1050-31202 – Utility Pipe - quantity change from 240’ to 75’
- “Plumbing” will be added to Division 15 description

Tony Donadio (Spiezle) stated that the plans have been reviewed and approved by the Building Division and the permit is ready to be picked up by the winning Contractor who will need to have the permit transferred to their name.

Michael Jacquin (Jacquin & Sons Construction) asked if the bid is a lump-sum-based award. Rob Skok responded saying that the building is shown on the Itemized Bid Schedule as Lump Sum for each Division and Site Work is bid as Unit Price. For clarification, all blank spaces on the Bid Form are required to be filled in. For items that are listed as Lump Sum, the number needs to be listed in the Unit Cost column, then again in the Amount column. Where items are presented in a Unit Cost other than lump Sum, a Unit Cost must be provided in the Unit Cost column, and the Amount in the Amount column. Bid Forms with blanks in any column will be considered incomplete.

Michael Jacquin asked if qualifications give any merit to the award. Rob Skok responded saying that as long as the Contractor qualifies through the Building Division, is licensed and ready for work, they will be qualified for award. Jennifer Hyde (IRC Purchasing) added that the Contractors will also need to have good references based on Section 00445 Qualifications.

Michael Jacquin asked if sales tax is included in the bid. Jennifer Hyde stated there would be no direct purchases by the County for this project. Sales tax for the Contractor is addressed in Section 0700, General Conditions, 6.02

Michael Jacquin inquired about the e-Verify system regarding subcontractors that aren’t selected prior to the bid-opening. Jennifer Hyde stated the Contractor must be registered with e-Verify and it will be the Contractor’s responsibility to obtain an affidavit from all subcontractors that states they don’t hire unauthorized aliens. Jennifer Hyde stated the County maintains the right to request verification documents at any point. She further stated that the County will look for licensure with the Division.

Rob Skok stated that the County allows changes of subcontractors if request is sent to Project Manager in writing including change(s) and reason for change(s).

Michael Jacquin asked about making permits a part of allowance and if there are any fees, would the County reimburse the Contractor. Jennifer Hyde responded that per Section 0200 (Instructions to Bidders) Article 13.13, the Bidder shall not include ANY PERMIT, IMPACT, NOR INSPECTION FEES payable to Indian River

County in the bid.

Michael Jacquin asked if Builder's Risk insurance would be more cost effective staying under the County's umbrella. Rob Skok stated that the answer to that question will be published in the addendum.

Michael Jacquin asked if temporary utilities could be supplied by the County. Rob Skok stated that question would be answered in the addendum.

Michael Jacquin stated that everyone is struggling with supply chain issues, and forewarned that there may be issues with acquiring long-lead items for this project. Rob Skok stated the County will work with the Contractor to accommodate any long-lead items.

Jennifer Hyde stated the Itemized Bid Schedule utilizes unit price bids, so be sure to write the prices in the unit price column and not just the total price column.

John Calacci (Rycon Construction) raised concerns about the time for the FAA (if required). Aaron Stanton (MBV Engineering) stated the Contractor will need to submit an air permit if the work requires any vehicles that are above a certain height.

Rob Skok stated the Architect's Estimate is \$6,677,377.

The question was asked if the County has a Local Preference policy – the answer is no.

Meeting adjourned at 2:41 PM

PRE-BID MEETING
SIGN-IN SHEET

INDIAN RIVER COUNTY ENGINEERING / ROADWAY PRODUCTION

Building A, Room A1-303

TRAFFIC OPERATIONS FACILITY

PROJECT No. IRC-2104

August 23, 2023 at 2:00 P.M.

NAME	COMPANY & ADDRESS	PHONE # / FAX # / CELL #	EMAIL ADDRESS
ROBERT BINFORD	DIMPPEO CONSTRUCTION 111 ORANGE AVE., FT. PIERCE FL 34947	772-361-9560	rbinford@dimppeoconstruction.com
Joseph Calacce	Kycon 1612 UNITED FREIGHT SUITE 2 FT MYERS, FL 33913	319-321-4417	jcalacce@kyconinc.com
ERNESTO MARTINEZ	SPIEZE AMM SUPPLY	407 747-9091	emartinez@spize.com
ROB SKAL	IRC ENGINEERING	772-226-1931	Rskal@indianriver.gov
AJ Michael	IRC Traffic Operations	772-473-0953	a.michael@indianriver.gov
BRADLEY MOWER JR	IRC ENGINEERING		Bmower@INDIAN RIVER . ORG
MICHAEL LUE	ML ENGINEERING, INC	772 569-1257	MIKE@ML ENGINEERING INC. COM
TONY DOMINGO	SPIEZE AMM	772-799-2925	adomingo@spize.com
Sherly Derosier	WJ Construction Corp 1005 Viera Blvd, Ste 202 Palm Bay, FL 32909	321-632-7660	shelley@wjconstruction.com
Aaron Stanton	MBV Engineering Support	772-569-0055	aaron@mbveng.com
Bryan Martin	Proctor Construction	772 2682844	BMartin@ProctorCC.com
Dwayne Miller	KAMM CONSULTING	772-924-9654	DMILLAR@KAMMCONSULTING.COM
KEVIN HANSEN	IRC ENGINEERING	772-226-1465	KHANSEN@IRCGOV.COM
Bear McBee	Jacquin & Sons Inc	772-465-2475	Bear.McBee@PJSI.com
Michael Jacquin	Jacquin & Sons Inc	772-465-2475	Michael.Jacquin@PJSI.com
Chuck Belcher	IFC - Facilities	772-538-8113	Cbelcher@irc.gov.com
Jill Williams	IRC - Eng	772-226-1380	jwilliams@irc.gov.com

REVISED ITEMIZED BID SCHEDULE - ADDENDUM NO. 1

PROJECT NAME: TRAFFIC OPERATIONS FACILITY

PROJECT NO. IRC-2104 BID NO. 2023059

ADDENDUM NO. 1
(* indicates change)

BIDDER'S Name:

Item No.	Description	Unit	Quantity	Unit Price	Amount
BUILDING					
DIVISION 1	GENERAL REQUIREMENTS (INCLUDES EXISTING BUILDING DEMOLITION)	LS	1		
DIVISION 3	CONCRETE - SEE STRUCTURAL ENGINEERING DRAWINGS	LS	1		
DIVISION 4	MASONRY - SEE STRUCTURAL ENGINEERING DRAWINGS	LS	1		
DIVISION 5	METALS - SEE STRUCTURAL ENGINEERING DRAWINGS	LS	1		
DIVISION 6	WOOD AND PLASTICS - SEE STRUCTURAL ENGINEERING DRAWINGS	LS	1		
DIVISION 7	THERMAL AND MOISTURE PROTECTION	LS	1		
DIVISION 8	DOORS AND WINDOWS	LS	1		
DIVISION 9	FINISHES	LS	1		
DIVISION 10	SPECIALTIES	LS	1		
DIVISION 12	FURNISHINGS	LS	1		
DIVISION 13	SPECIAL CONSTRUCTION	LS	1		
* DIVISION 15	MECHANICAL & PLUMBING - SEE MEP ENGINEERING DRAWINGS	LS	1		
DIVISION 16	ELECTRICAL - SEE MEP ENGINEERING DRAWINGS	LS	1		
BUILDING SUBTOTAL					
SITE WORK					
101-1	MOBILIZATION/DEMOBILIZATION	LS	1		
102-1	MAINTENANCE OF TRAFFIC	LS	1		
104-10-3	SEDIMENT BARRIER	LF	761		
110-1-1	CLEARING AND GRUBBING	AC	2.05		
110-23	TREES TO BE REMOVED (OAKS: 10" - 40")	EA	9		
110-4-10	REMOVAL OF EXISTING CONCRETE (SIDEWALKS)	SY	226		
120-1	REGULAR EXCAVATION	CY	1,150		
* 160-4A	TYPE B STABILIZATION (SIDEWALKS AND LAYDOWN AREA ON EAST SIDE OF SITE), 6" THICK	SY	472		
* 160-4B	TYPE B STABILIZATION (CAR PARKING AND SERVICE YARD AREA) 8" THICK	SY	3939		
160-4C	TYPE B STABILIZATION (HEAVY DUTY CONCRETE AREAS) 12" THICK	SY	413		
285-704	OPTIONAL BASE, GROUP 4 (CAR PARKING AREAS)	SY	456		
285-709	OPTIONAL BASE GROUP 6 (SERVICE YARD)	SY	3,200		
334-1-13	SUPERPAVE ASPHALT CONCRETE TRAFFIC C (SP 9.5, 1.5") (CAR PARKING AREAS)	TN	37.7		
334-1-13	SUPERPAVE ASPHALT CONCRETE TRAFFIC C (SP 12.5, 1.5" - 1ST LIFT) (SERVICE YARD)	TN	260.5		
334-1-13	SUPERPAVE ASPHALT CONCRETE TRAFFIC C (SP 9.5, 1" - 2ND LIFT) (SERVICE YARD)	TN	173.7		
400-2-10	CONCRETE CLASS II, APPROACH SLABS, 7" THICKNESS, REINFORCED, 4,000 PSI	CY	413		

REVISED ITEMIZED BID SCHEDULE - ADDENDUM NO. 1

PROJECT NAME: TRAFFIC OPERATIONS FACILITY

PROJECT NO. IRC-2104 BID NO. 2023059

ADDENDUM NO. 1
(* indicates change)

BIDDER'S Name:

Item No.	Description	Unit	Quantity	Unit Price	Amount
425-1-54	INLET, DITCH BOTTOM, TYPE F	EA	7		
425-2-41	MANHOLE, P-7, < 10'	EA	3		
430-175-112	PIPE CULVERT, ROUND, 12" S/CD (SCH 80 PVC)	LF	30		
430-175-115	PIPE CULVERT, ROUND, 15" S/CD (RCP)	LF	142		
430-175-118	PIPE CULVERT, ROUND, 18" S/CD (RCP)	LF	259		
430-175-124	PIPE CULVERT, ROUND, 24" S/CD (RCP)	LF	129		
430-964-6	PVC PIPE FOR NON-STANDARD DRAINAGE, 8" SCH 80	LF	52		
430-964-7	PVC PIPE FOR NON-STANDARD DRAINAGE, 6" SCH 80 (ROOF LEADERS)	LF	70		
507-70	ALUMINUM SIDEWALK FLOOR	SF	35		
* 515-1-2	PIPE HANDRAIL - GUARDRAIL, ALUMINUM	LF	24		
520-1-10	CONCRETE CURB AND GUTTER, TYPE F	LF	51		
520-2-4	CONCRETE CURB, TYPE D	LF	1,520		
522-2	CONCRETE SIDEWALK AND DRIVEWAYS (FIBER REINFORCED) (6" THICK)	SY	658		
527-2	DETECTABLE WARNINGS (YELLOW)	SF	120		
550-60-236	FENCE GATE, TYPE B, SLIDING/CANTILEVER, 24'-30' OPENING	EA	2		
570-1-2	PERFORMANCE TURF, SOD (MATCH EXISTING)	SY	3,200		
580-4-343	LANDSCAPE - PALMS, SABAL PALMETTO, 9'-12' - CLEAR TRUNK	EA	11		
580-5-223	LANDSCAPE - TREES, LIVE & LAUREL OAK, QUERCUS VIRGIANIANA & LAURIFOLIA, 11'-14' OVERALL HEIGHT	EA	13		
580-5-242	LANDSCAPE - TREES, NATCHEZ CREPE MYRTLE & SILVER BUTTONWOOD, 6' OVERALL HEIGHT	EA	12		
580-5-783	LANDSCAPE - TREES, TAXODIUM ASCENENS, POND CYPRESS, 11'-14' OVERALL HEIGHT	EA	2		
580-5-67	LANDSCAPE - SMALL SHRUB, SPECIFIED, 7 GALLON	EA	125		
590-1	LANDSCAPE - IRRIGATION SYSTEM, MODIFICATION	LS	1		
700-1-11	SINGLE SIGN POST, UP TO 12 SF	AS	10		
710-90	PAINTED PAVEMENT MARKINGS (808 LF OF 4" PARKING STALL STRIPES)	LS	1		
710-90	PAINTED PAVEMENT MARKINGS (50 LF OF 6" DOUBLE YELLOW STRIPES)	LS	1		
711-11-123	THERMOPLASTIC, PAVEMENT MARKINGS, STANDARD SOLID WHITE, 12"	LF	253		
711-11-125	THERMOPLASTIC, PAVEMENT MARKINGS, STANDARD SOLID WHITE, 24"	LF	84		
711-11-160	THERMOPLASTIC, PAVEMENT MARKINGS, SYMBOL	EA	1		
* 711-11-170	THERMOPLASTIC, PAVEMENT MARKINGS, ARROW	EA	7		
715-4-70	LIGHT POLE AND ELECTRIC BOX COMPLETE, REMOVAL	EA	2		
* 1050-31202	UTILITY PIPE - POLY VINYL CHLORIDE, FURNISH & INSTALL, WATER, 2"	LF	75		
1050-31206	UTILITY PIPE - POLY VINYL CHLORIDE, FURNISH & INSTALL, SEWER, 6"	LF	55		
1060-11211	UTILITY STRUCTURE, BELOW GROUND, FURNISH & INSTALL, STORM, 0-6' (500 GAL OIL/WATER INTERCEPTOR)	EA	1		

REVISED ITEMIZED BID SCHEDULE - ADDENDUM NO. 1

PROJECT NAME: TRAFFIC OPERATIONS FACILITY

PROJECT NO. IRC-2104 BID NO. 2023059

ADDENDUM NO. 1
(* indicates change)

BIDDER'S Name:

Item No.	Description	Unit	Quantity	Unit Price	Amount
1080-21102	UTILITY FIXTURE - VALVE, FURNISH & INSTALL, 2"	EA	2		
1080-23102	UTILITY FIXTURE - TAPPING SADDLE, FURNISH & INSTALL, 2"	EA	1		
1080-23106	UTILITY FIXTURE - TAPPING SADDLE/SLEEVE, FURNISH & INSTALL, 6" WITH 2" CORP STOP	EA	1		
U-1	UNDERGROUND UTILITY - MISC., EXISTING 4" FORCE MAIN ABANDONE IN PLACE	LF	122		
999-1	ASBUILT SURVEYING AND RECORD DRAWING PREPARATION (BY REGISTERED SURVEYOR)	LS	1		
SITE WORK SUBTOTAL					
BUILDING SUBTOTAL + SITEWORK SUBTOTAL =					
999-25				FORCE ACCOUNT =	\$600,000.00
TOTAL PROJECT BID AMOUNT (INCLUDING FORCE ACCOUNT) =					

SF=Square Foot LS=Lump Sum AC=Acre EA=Each CY=Cubic Yard SY=Square Yard TN=Ton LF=Linear Foot AS=Assembly

NOTE: IF THERE IS A DISCREPANCY BETWEEN THE PLANS (SUMMARY OF PAY ITEMS) AND THE ITEMIZED BID SCHEDULE, THE BID SCHEDULE WILL BE UTILIZED FOR BIDDING PURPOSES.

TOTAL PROJECT BID AMOUNT IN WORDS _____

PRE-CONSTRUCTION REQUIREMENTS:

- 1. THE CONTRACTOR IS REQUIRED TO PERFORM HIS WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE VARIOUS PERMITS WHICH WILL BE OBTAINED PRIOR TO BEGINNING CONSTRUCTION.
2. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE (SEQUENCE OF OPERATIONS) PRIOR TO THE PRE-CONSTRUCTION MEETING.
3. CONTRACTOR WILL ATTEND A PRE-CONSTRUCTION MEETING WITH THE DESIGN ENGINEER, MUNICIPALITY AND/OR OWNER PRIOR TO LAND DISTURBANCE.
4. SHOP DRAWINGS SHALL BE SUBMITTED BEFORE ORDERING MATERIAL FOR PLANNED PROJECT. CORRESPONDING SHALL BE BETWEEN THE DESIGN ENGINEER AND THE LOCAL GOVERNING AGENCY AND IS THE RESPONSIBILITY OF THE CONTRACTOR.

CONSTRUCTION NOTES:

- 1. THE CONTRACTOR IS ADVISED TO THOROUGHLY REVIEW THIS PLAN PACKAGE SO AS TO BE TOTALLY PREPARED TO PRESENT HIS BID PRICES IN THE CONTRACT DOCUMENTS. THE PLAN PACKAGE SUFFICIENTLY DELINEATES THE SCOPE AND INTENT OF THE WORK TO BE ACCOMPLISHED. IT WILL, THEREFORE, BE INCUMBENT ON THE CONTRACTOR TO ADJUST HIS FEE DOLLARS TO REFLECT ANY AND ALL ITEMS WHICH MAY NOT BE CLEARLY OUTLINED OR THOSE ITEMS WHICH MAY NOT BE INDICATED BUT WHICH ARE NECESSARY FOR THE SUCCESSFUL COMPLETION OF THIS PROJECT WITHOUT ADDITIONAL COSTS TO THE OWNER.
2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH INDIAN RIVER COUNTY AND FDOT STANDARDS AND SPECIFICATIONS.
3. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS BASED ON AVAILABLE RECORDS AND IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO AND IS RESPONSIBLE FOR THE COORDINATION OF UTILITY RELOCATION.
4. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES IN THE FIELD WITH UTILITY OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION. UTILITY PROVIDERS:
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY ALL UTILITY COMPANIES A MINIMUM OF TWO WORKING DAYS PRIOR TO EXCAVATION, AS REQUIRED BY THE UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT. NOTIFY SUNSHINE AT 811.
6. CONTRACTOR SHALL TAKE EXTREME CAUTION WHEN EXCAVATING NEARBY EXISTING UTILITIES.
7. CONTRACTOR SHALL INFORM ENGINEER OF ANY CONFLICT BEFORE ANY FURTHER WORK IS COMPLETED.
8. UTILITIES ARE TO BE ADJUSTED BY UTILITY OWNER OR AS DIRECTED BY THE ENGINEER.
9. SURFACE INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FOR USE IN ESTABLISHING DESIGN CRITERIA FOR THE PROJECT. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED AND IS NOT TO BE CONSTRUED AS PART OF THE PLANS GOVERNING CONSTRUCTION OF THE PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INQUIRE OF THE ENGINEER IF ADDITIONAL INFORMATION IS AVAILABLE. TO MAKE ARRANGEMENTS TO REVIEW SAME PRIOR TO BIDDING, AND IS TO MAKE HIS OWN DETERMINATION AS TO ALL SUBSURFACE CONDITIONS.
10. CONTRACTOR SHALL NOTIFY THE ENGINEER IF SOIL OR SUBSURFACE CONDITIONS UNSUITABLE FOR CONSTRUCTION ARE ENCOUNTERED.
11. ALL EXCAVATED SOILS DEEMED SUITABLE AS FILL MATERIAL AS DETERMINED BY THE ENGINEER SHALL BE UTILIZED ON SITE BY THE CONTRACTOR AT HIS OWN EXPENSE. THE EXACT LOCATION OF DELIVERY ON SITE SHALL BE DETERMINED BY THE ENGINEER. ALL EXCAVATED SOILS DEEMED UNSUITABLE SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS OWN EXPENSE.
12. ITEM IN CONFLICT WITH DESIGN SUCH AS EXISTING CURBS AND GUTTERS, SIDEWALKS, DRAINAGE STRUCTURES, PAVEMENT AND EXCESS EXCAVATIONS ARE TO BE REMOVED BY THE CONTRACTOR AND DISPOSED OF IN A LEGAL AND PROPER MANNER AWAY FROM THE JOB SITE AT HIS OWN EXPENSE.
13. CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS FOR CONSTRUCTION.
14. IT SHOULD BE NOTED THAT THE OCCUPATIONAL SAFETY AND HEALTH ACT PROHIBITS THE OPERATING OF EQUIPMENT OR MACHINES CLOSER THAN TEN (10) FEET TO ENERGIZED ELECTRIC LINES RATES AT FIFTY KILOVOLTS OR BELOW. ALSO, NO EXCAVATION IS PERMITTED WITHIN FIVE (5) FEET OF POWER POLE FACILITIES.
15. ALL IRONS AND MONUMENTS (P.R.M.'S) SHOWN ON PLANS, OR FOUND, SHALL BE PRESERVED. THOSE SHOWN IN PROPOSED PAVEMENT SHALL BE PROTECTED WITH A CAST IRON VALVE BOX.
16. ANY PUBLIC LAND CORNERS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED OR DISTURBED, THE CONTRACTOR WILL NOTIFY THE ENGINEER.
17. ALL EXISTING TREES WITHIN THE RIGHT OF WAY ARE TO BE REMOVED AS CLEARING AND GRUBBING UNLESS OTHERWISE NOTED.
18. WHEN REFERENCED TO, FDOT REFERS TO FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS, CURRENT EDITION.
19. THE CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED BY CONSTRUCTION TO A CONDITION EQUAL TO, OR BETTER THAN THAT WHICH IS NOW EXISTING.
20. BACKFILL, GRADE AND SOD AS REQUIRED AROUND ALL NEW CONSTRUCTION AND ALL DEVELOPED LOTS TO PREVENT EROSION. SEED AND MULCH WILL ONLY BE ALLOWED TO RESTORE UNDEVELOPED LOTS AFFECTED BY CONSTRUCTION OR AS DIRECTED BY THE ENGINEER.
21. SODDING TO BE USED AT LOCATIONS AS DIRECTED BY THE ENGINEER. SOD ALL DISTURBED AREAS UPON COMPLETION.
22. ALL EXCESS CONSTRUCTION MATERIAL AND WASTE TO BE HAULED OFF-SITE AND DISPOSED OF PROPERLY AT CONTRACTOR'S EXPENSE.
23. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH FDOT STANDARDS FOR TRAFFIC CONTROL THROUGH WORK ZONES AND MUTCD (PART V).
24. PROPERTY OWNERS AND BUSINESSES WITHIN THE AREA OF CONSTRUCTION SHALL BE GIVEN ACCESS TO THEIR PROPERTY AT ALL TIMES DURING THE PERIOD OF CONSTRUCTION.
25. ALL MAILBOXES SHALL BE RELOCATED BY THE CONTRACTOR AS DIRECTED BY THE U.S. POSTAL MAIL CARRIER.
26. THE CONTRACTOR SHALL REMOVE, COVER OR OBLITERATE EXISTING ROADWAY SIGN AND PAVEMENT MARKINGS THAT CONFLICT WITH THE CONSTRUCTION TRAFFIC CONTROL PLANS.
27. CONTRACTOR TO PROTECT ALL SPRINKLER HEADS NOT IN CONFLICT WITH DESIGN AND RELOCATE ALL THOSE WHICH ARE IN CONFLICT TO A LOCATION DETERMINED IN FIELD.
28. SOD TWO (2) FEET MINIMUM ALONG SIDE PROPOSED EDGE OF PAVEMENT.
29. THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY DRAINAGE MEASURES AS REQUIRED TO ADEQUATELY DRAIN THE PROJECT AND ANY TEMPORARILY TRAVELED ROADWAYS. TEMPORARY DRAINAGE DESIGN, CONSTRUCTION AND MAINTENANCE IS THE CONTRACTOR'S RESPONSIBILITY; HOWEVER, ALL SUCH MEASURES MUST BE APPROVED BY THE ENGINEER.
30. THE EXISTING SIDEWALK SHALL NOT BE DISTURBED UNLESS OTHERWISE NOTED.
31. GRADES SHOWN ARE FINISHED GRADES.
32. SAWCUT CONCRETE OR ASPHALT DRIVEWAYS AS REQUIRED FOR REPLACEMENT.
33. ALL ABANDONED UTILITIES (INCLUDING PIPES, CABLES AND STRUCTURES) FOUND IN THE RIGHT OF WAY AND NOT SHOWN ON THE PLANS, ARE TO BE REMOVED AND PROPERLY DISPOSED OF AT THE EXPENSE OF THE CONTRACTOR. THIS INCLUDES ALL EXOTIC PIPES LIKE ASBESTOS-CEMENT PIPE. COST TO BE INCLUDED IN CLEARING AND GRUBBING ITEM.
34. DRIVEWAY LOCATIONS AND WIDTHS ARE APPROXIMATE AND ARE TO BE ADJUSTED AS NECESSARY OR AS DIRECTED BY THE ENGINEER.
35. BENCHMARK DATUM IN NAVD 88.
36. BACKFILL AND SOD AS REQUIRED BEYOND RIGHT OF WAY LINES ON INDIVIDUAL LOTS TO MAINTAIN POSITIVE DRAINAGE FLOW INTO CURB AND GUTTER.
37. GRADE AND SOD SWALES TEN (10) FEET FROM PROPOSED DITCH BOTTOM INLETS AND MITERED END SECTIONS ON SIDE STREETS, AS REQUIRED.
38. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN (BASELINE) AND (CENTERLINE) CONSTRUCTION THROUGHOUT THE PROJECT.
39. THE CONTRACTOR SHALL REMOVE DRIVEWAY APRONS AND DRIVEWAY CULVERTS AND SHALL MAINTAIN ROUGH GRADE FOR UTILITY MODIFICATIONS.
40. ALL EXISTING SWALES SHALL BE PROTECTED BY THE CONTRACTOR. ANY DAMAGE TO THE SWALE LINE SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE.
41. PAYMENT FOR INCIDENTAL ITEMS NOT SPECIFICALLY COVERED IN THE INDIVIDUAL BID ITEMS SHALL BE INCLUDED IN THE CONTRACT PRICES FOR BID ITEMS.
42. MAINTAIN A MINIMUM OF ONE (1) FOOT CLEARANCE BETWEEN POWER POLE AND EDGE OF SIDEWALK.
43. WHEN ALL OTHER PERMANENT CONSTRUCTION IS COMPLETE, THE FINAL SURFACE COURSE SHALL BE PLACED.
44. CONSTRUCTION OPERATIONS FOR PLACEMENT OF THE FINAL SURFACE COURSE SHALL BE LIMITED TO A DISTANCE, AS DIRECTED BY THE ENGINEER, THE CONTRACTOR CAN COMPLETE IN ONE (1) DAY.
45. THE CONTRACTOR SHALL IMPLEMENT TEMPORARY PAVEMENT MARKINGS UNTIL THE FINAL SURFACE COURSE HAS CURED (MINIMUM THIRTY (30) DAYS AFTER FINAL SURFACE COURSE PLACEMENT), ANY TEMPORARY PAINTED MARKINGS PLACED ON THE FINAL.
46. PAVEMENT TRANSITION SHALL BE MADE IN ACCORDANCE WITH PAVEMENT TRANSITION DETAIL.
47. ALL APPROVED PERMIT CONDITIONS, INCLUDING BUT NOT LIMITED TO FDOT, FDEP AND INDIAN RIVER COUNTY, SHALL BE MET BY CONTRACTOR PRIOR TO CERTIFICATION OF COMPLETION BY ENGINEER.

ROADWAY SPECIFICATIONS

GENERAL
IT IS INTENDED THAT THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" MOST CURRENT EDITION BE USED WHERE APPLICABLE FOR VARIOUS WORK, AND THAT WHERE SUCH WORKING THEREIN REFERS TO THE STATE OF FLORIDA AND ITS DEPARTMENT OF TRANSPORTATION AND PERSONNEL, SUCH WORKING IS INTENDED TO BE REPLACED WITH THAT WORKING WHICH WOULD PROVIDE PROPER TERMINOLOGY, THEREBY MAKING SUCH "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AS THE "STANDARD SPECIFICATIONS" FOR THIS PROJECT.
IF WITHIN THAT PARTICULAR SECTION ANOTHER SECTION, ARTICLE OR PARAGRAPH IS REFERRED TO, IT SHALL BE A PART OF THE STANDARD SPECIFICATIONS ALSO.
THE CONTRACTOR SHALL GIVE THE ENGINEER 48 HOURS NOTICE PRIOR TO REQUESTING INSPECTIONS AND SHALL SUPPLY ALL EQUIPMENT NECESSARY TO PROPERLY TEST AND INSPECT THE COMPLETED WORK.
THE CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF TWO YEARS FROM THE DATE OF PROJECT ACCEPTANCE, DURING WHICH ALL FAULTY CONSTRUCTION AND/OR MATERIALS SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
GRADING
THE CONTRACTOR SHALL PERFORM ALL GRADING NECESSARY TO ACHIEVE THE PROPOSED PLAN GRADES INCLUDING TYPICAL SECTIONS.
ALL WORK SHALL BE IN ACCORDANCE WITH SECTION 120 OF THE STANDARD SPECIFICATIONS.
STAKING
CONSTRUCTION STAKING WILL BE PERFORMED BY THE CONTRACTOR.
STABILIZING
STABILIZED SUBGRADE SHALL BE CONSTRUCTED TO THE FLORIDA BEARING VALUE AS PER PLAN FOR THE DEPTH AND LIMITS SHOWN ON THE PLAN, AND IN ACCORDANCE WITH SECTION 160 OF THE STANDARD SPECIFICATIONS.
(BASE COURSE)
THE BASE SHALL BE CONSTRUCTED OF EITHER LIMEROCK MATERIAL IN ACCORDANCE WITH SECTION 911 OR CEMENTED COQUINA SHELL MATERIAL IN ACCORDANCE WITH SECTION 915 OF THE STANDARD SPECIFICATIONS.
LIMEROCK BASE AND CEMENTED COQUINA SHELL BASE SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 200 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE ROCK PIT CERTIFICATION FOR CEMENTED COQUINA SHELL MATERIAL. BASE SHALL BE COMPACTED BY AT LEAST 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180. BASE SHALL BE APPROVED PRIOR TO PRIME COAT.
PRIME AND TACK COAT
PRIME AND TACK COAT FOR THE BASE SHALL BE IN ACCORDANCE WITH SECTION 300 OF THE STANDARD SPECIFICATIONS.
ASPHALTIC CONCRETE SURFACE COURSE (A.C.S.C.)
TYPE SP-9.5 ACSC SHALL BE CONSTRUCTED FOR THE DEPTH AND LIMITS SHOWN ON THE PLAN, IN ACCORDANCE WITH SECTIONS 320, AND 330 OF THE STANDARD SPECIFICATIONS.
TESTING
THE CONTRACTOR SHALL RETAIN THE SERVICES OF AN APPROVED INDEPENDENT TESTING LABORATORY TO CONDUCT ALL REQUIRED TESTS ON SUBGRADE, BASE AND SURFACE COURSE MATERIALS. TEST RESULTS MUST BE SUBMITTED PRIOR TO ANY REQUEST FOR PAYMENT ON THE ABOVE ITEMS.
THE SCHEDULE FOR TESTING OF THE ROAD CONSTRUCTION SHALL BE AS FOLLOWS:
A. SUBGRADE:
1. FLORIDA BEARING VALUE TESTS SHALL BE TAKEN AT INTERVALS OF NOT MORE THAN 200 FEET, OR CLOSER AS MIGHT BE NECESSARY IN THE EVENT OF VARIATIONS IN SUBSOIL CONDITIONS.
2. DENSITY TESTS SHALL BE TAKEN AT INTERVALS OF NOT MORE THAN 200 FEET OR CLOSER AS MIGHT BE NECESSARY.
B. BASE:
1. DENSITY TESTS SHALL BE TAKEN AT INTERVALS OF NOT MORE THAN 500 FEET OR CLOSER AS MIGHT BE NECESSARY.
ALL TESTING SHALL BE TAKEN IN A STAGGERED SAMPLING PATTERN FROM A POINT 1 1/2 INCHES INSIDE THE LEFT EDGE, TO THE CENTER, TO A POINT 12 INCHES INSIDE THE RIGHT EDGE OF THE ITEM TESTED.
IF ANY TEST INDICATES THAT THE WORK DOES NOT MEET THE SPECIFICATIONS, THE SUBSTANDARD AREA SHALL BE REWORKED OR CORRECTED AND RETESTED, AT THE CONTRACTOR'S EXPENSE, UNTIL THE PROVISIONS OF THESE SPECIFICATIONS ARE MET.
ALL PASSING TESTS SHALL BE PAID FOR BY THE OWNER. ALL FAILING TESTS SHALL BE PAID FOR BY THE CONTRACTOR.
CLEAN-UP
THE CONTRACTOR MUST PROVIDE CLEAN-UP OF EXCESS CONSTRUCTION MATERIAL UPON COMPLETION OF THE PROJECT. THE SITE MUST BE LEFT IN A NEAT, CLEAN, GRADED CONDITION.
CONSTRUCTION IN STREETS AND ROAD RIGHT-OF-WAYS
1. OPEN ROAD CUTS REQUIRE PRIOR APPROVAL OF THE CITY, COUNTY, STATE OR ANY OTHER AGENCY WHICH MAY HAVE JURISDICTION.
2. ALL CONSTRUCTION, MATERIALS AND WORKMANSHIP ARE TO BE IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS AND STANDARDS.
3. ALL AREAS IN EXISTING RIGHT-OF-WAYS DISTURBED BY CONSTRUCTION SHALL RECEIVE SOLID SOD.
4. STREET RESTORATION TO BE DONE AS PER INDIAN RIVER COUNTY STANDARDS.
5. THE CONTRACTOR SHALL COMPLY WITH ALL RULES AND REGULATIONS OF THE STATE, COUNTY AND CITY AUTHORITIES REGARDING CLOSING OR RESTRICTING THE USE OF PUBLIC STREETS OR HIGHWAYS.
6. TRAFFIC CONTROL ON ALL COUNTY AND STATE HIGHWAY RIGHT-OF-WAYS SHALL MEET THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (U.S. DOT/FHA) AND THE REQUIREMENTS OF THE STATE AND ANY LOCAL AGENCY HAVING JURISDICTION.
DRAINAGE SPECIFICATIONS
STORM INLETS AND MANHOLES SHALL BE CONSTRUCTED IN GENERAL ACCORDANCE WITH SECTION 425 OF THE STANDARD SPECIFICATIONS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION.
CONCRETE SHALL HAVE A MINIMUM 28-DAY STRENGTH OF 3000 PSI.
ALL REINFORCING STEEL TO BE ASTM A 615-72 GRADE 40, FYP = 40,000 PSI, AND SHALL BE HANDLED AND PLACED IN ACCORDANCE WITH ACI 318-71.
PRECAST CONCRETE MANHOLES AND STORM INLETS MAY BE USED UPON THE ENGINEER'S APPROVAL OF THE MANUFACTURER'S SHOP DRAWINGS.
STORM SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH SECTION 430 AND RELATED SECTIONS OF THE STANDARD SPECIFICATIONS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION.
CONCRETE
UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 3000 PSI. ALL WORK SHALL COMPLY WITH THE CURRENT EDITION OF THE AMERICAN CONCRETE INSTITUTE (ACI) BUILDING CODE AND THE APPLICABLE BUILDING CODES HAVING JURISDICTION IN THE AREA.
CULVERT PIPES
REINFORCED CONCRETE PIPE (R.C.P.) SHALL BE IN ACCORDANCE WITH SECTION 449 OF THE STANDARD SPECIFICATIONS.
PRECAST CONCRETE DRAINAGE PRODUCTS
ALL PRECAST CONCRETE DRAINAGE PRODUCTS (INCLUDING BUT NOT LIMITED TO ROUND CONC. PIPE, ELLIPTICAL CONC. PIPE, UNDERDRAINS, MANHOLES, INLETS, ENDWALLS, JUNCTION BOXES, THREE SIDED CONC. CULVERTS, AND CONC. BOX CULVERTS) SHALL BE IN ACCORDANCE WITH SECTION 449 OF THE STANDARD SPECIFICATIONS.
GROUNDWATER
GROUNDWATER MAY BE ENCOUNTERED ON THIS SITE. THE CONTRACTOR IS TO PLAN ACCORDINGLY.

DRAINAGE SPECIFICATIONS CONT.

RECORD DRAWINGS
CONTRACTOR SHALL KEEP AND MAINTAIN RECORD DRAWINGS ON THE PROJECT SITE AT ALL TIMES WHICH SHALL BE ANNOTATED BY THE CONTRACTOR DESCRIBING ANY CHANGES MADE IN THE FIELD WHICH DIFFER FROM THE CONTRACT DRAWINGS. RECORD DRAWINGS SHALL INCLUDE, BUT NOT LIMITED TO, INVERT AND TOP ELEVATIONS OF CULVERTS AND INLET STRUCTURES. CONTRACTOR SHALL SUBMIT COMPLETE AND FINAL RECORD DRAWINGS TO ENGINEER UPON COMPLETION OF PROJECT AND PRIOR TO FINAL INSPECTION AND FINAL PAYMENT.
INSPECTION
MINIMUM CONSTRUCTION INSPECTION CHECKPOINTS
THE ENGINEER SHALL BE NOTIFIED:
1. PRIOR TO ANY MAJOR DEVIATION FROM THE APPROVED PLANS.
2. PRIOR TO BACKFILLING ANY PIPE TRENCHES.
3. UPON COMPLETION OF SUBGRADE GRADING AND COMPACTION.
4. UPON BEGINNING OF SPREADING OF ROCK BASE MATERIAL.
5. UPON COMPLETION OF GRADING AND COMPACTION OF THE BASE MATERIAL AND PRIOR TO PRIMING.
6. IMMEDIATELY PRIOR TO AND UPON APPLICATION OF A.C.S.C.
7. UPON COMPLETION OF CONSTRUCTION.



GENERAL NOTES

- 1. CONTRACTOR IS RESPONSIBLE FOR CHECKING ACTUAL SITE CONDITIONS BEFORE STARTING CONSTRUCTION.
2. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE COMMENCING WORK.
3. ALL WORK SHALL BE IN WORKMANLIKE MANNER AND SHALL CONFORM WITH ALL APPLICABLE CITY, COUNTY, STATE AND FEDERAL REGULATIONS AND/OR CODES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND LICENSES REQUIRED TO BEGIN WORK.
4. ALL MATERIALS AND LABOR UNDER THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH REQUIREMENTS OF THE INDIAN RIVER COUNTY, WATER MANAGEMENT DISTRICT, FDEP AND THESE PLANS AND SPECIFICATIONS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL CONTACT ALL CONCERNED UTILITIES AT LEAST 48 HOURS IN ADVANCE FOR CONSTRUCTION OPERATIONS.
6. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN TO BE MADE WITHOUT PRIOR APPROVAL OF THE ENGINEER.
7. CONTRACTOR SHALL SUPPLY DENSITY TESTS TO ENGINEER ON ALL SUB-GRADE AND BASE. TESTS SHALL BE PREPARED PER AASHTO T-180 METHOD.
8. SLOPE GRADES FROM ELEVATIONS SHOWN TO EXISTING GRADE AT PROPERTY LINE. MAXIMUM SLOPE 4:1.
9. ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE FOR ANY INSPECTION.
10. ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH M.U.T.C.D. STANDARDS, INDIAN RIVER COUNTY AND F.O.T.
11. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION.
12. THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTORS BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE. WHEN GROUNDWATER IS ENCOUNTERED THE CONTRACTOR SHALL PLAN ACCORDINGLY.
13. ALL INLETS SHALL HAVE A 6" MIN. SUMP BELOW LOWEST INVERT.
14. EROSION CONTROL FENCING MUST BE IN PLACE PRIOR TO GRADING.
15. PIPE LENGTHS AND SLOPES SHOWN ARE APPROXIMATE.
16. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
17. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT.
18. CONTRACTOR SHALL ADJUST INLET/STRUCTURE OR CONNECTION LOCATION AS REQUIRED TO ENSURE PROPOSED STRUCTURES AND PIPES ARE IN PROPER ALIGNMENT AND MATCH SLOPE OF EXISTING PIPES OR CONNECTIONS.
19. THIS PLAN CONTEMPLATES ACCESS CONNECTIONS TO ADJACENT ROADS AS SHOWN.
20. FILL MATERIAL MAY NOT BE STOCKPILED HIGHER THAN TWENTY FIVE (25) VERTICAL FEET ON SITE PER INDIAN RIVER COUNTY CODE.
21. DIMENSIONS SHOWN ARE TO EDGE OF GUTTER OR PAVEMENT. RADI SHOWN ARE TO FACE OF CURB.
22. ALL SIGNS SHALL BE PER M.U.T.C.D. STANDARDS.
23. ALL PAVEMENT MARKINGS, EXCEPT PARKING STALL STRIPING, SHALL BE THERMOPLASTIC PER INDIAN RIVER COUNTY REQUIREMENTS.
24. THE USES PROPOSED AS PART OF THIS PLAN DO NOT REQUIRE A SUBMITTAL OF A RISK MANAGEMENT PLAN PURSUANT TO U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) REGULATIONS AND SHALL NOT EXCEED THE EPA'S RMP THRESHOLD QUANTITIES OF LISTED SUBSTANCES.
25. WATER FOR FIRE FIGHTING PURPOSES SHALL BE INDICATED WITH A BLUE ROADWAY REFLECTOR. PLACE ONE FOOT OFF OF THE CENTERLINE OF THE ROAD FACING THE FIRE HYDRANT. THIS INCLUDES NEW AND EXISTING SOURCES.
26. REGARDLESS OF PRIVATE OR PUBLIC DEDICATIONS, THERE SHALL BE NO UTILITY CONNECTIONS, METER BOXES OR VALVE BOXES IN EXISTING OR PROPOSED SIDEWALK OR DRIVEWAY AREAS.
27. CONTRACTOR SHALL ADJUST INLET/STRUCTURE OR CONNECTION LOCATION AS REQUIRED TO ENSURE PROPOSED STRUCTURES AND PIPES ARE IN PROPER ALIGNMENT AND MATCH SLOPE OF EXISTING PIPES OR CONNECTIONS.
28. ANY STATE AND FEDERAL PERMITS THAT MAY BE REQUIRED AS A RESULT OF LAND CLEARING AND LANDSCAPING ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
29. CONTRACTOR IS RESPONSIBLE TO PROTECT AND/OR REPLACE ALL SURVEY MONUMENTATION BY A LICENSED SURVEYOR IN THE STATE OF FLORIDA.
30. ALL PARKING SPACES WITH EXCEPTION OF THE HANDICAPPED PARKING SPACES SHALL BE STRIPED IN WHITE, TRAFFIC PAINT AND BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, SECTION 710, LATEST EDITION.
31. ALL HANDICAPPED PARKING SPACES SHALL BE PROPERLY SIGNED AND STRIPED IN ACCORDANCE WITH FDOT STANDARD INDEX 711-001, LATEST EDITION.
32. BUILDINGS USING VERTICAL OR HORIZONTAL LIGHT-FRAME CONSTRUCTION IN ANY PORTION OF THE STRUCTURE SHALL BE MARKED WITH A SIGN AS REQUIRED BY FLORIDA STATE STATUTE 633-027 AND THE SIGN SHALL BE REQUIRED TO COMPLY WITH THE FLORIDA ADMINISTRATIVE CODE 69A-3.012 AND/OR 69A-60.0081. REQUIRED SIGN MUST BE 8 INCHES BY 8 INCHES.
33. THERMOPLASTIC PAVEMENT MARKINGS SHALL BE REQUIRED ON EXISTING / PROPOSED DRIVEWAYS THAT CONNECT TO THE COUNTY RIGHT-OF-WAY (ROW) AND PROPOSED PAVEMENT MARKINGS WITHIN 25' OF EDGE OF PAVEMENT.
34. ALL SUBDIVISION CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE APPLICABLE INDIAN RIVER COUNTY ORDINANCES.
35. ALL NUISANCE EXOTIC VEGETATION EXISTING WITHIN DEVELOPMENT PROJECT SITE PROPERTY MUST BE REMOVED IN CONJUNCTION WITH SITE DEVELOPMENT.

Table with columns: PAY ITEM NO., DESCRIPTION, UNIT, QUANTITY. Includes items like MOBILIZATION, MAINTENANCE OF TRAFFIC, SEDIMENT BARRIER, CLEARING AND GRUBBING, REMOVAL OF EXISTING CONCRETE (SIDEWALKS), REGULAR EXCAVATION, TYPE B STABILIZATION (SIDEWALKS AND LAY-DOWN AREA ON EAST SIDE OF SITE), TYPE B STABILIZATION (CAR PARKING AND SERVICE YARD AREAS), TYPE B STABILIZATION (HEAVY DUTY CONCRETE AREAS), OPTIONAL BASE, GROUP 04 (CAR PARKING AREAS), SUPERPAVE ASPHALT CONCRETE TRAFFIC C, SUPERPAVE ASPHALT CONCRETE TRAFFIC C (SP 12.5, 1.5" - 1st LIFT) (SERVICE YARD), SUPERPAVE ASPHALT CONCRETE TRAFFIC C (SP 9.5, 1"-2nd LIFT) (SERVICE YARD), CONCRETE CLASS II APPROACH SLABS, INLET, DITCH BOTTOM, TYPE F, MANHOLE, P-7, 24", PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 12" S/C D (SCH 80 PVC), PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 15" S/C D (RCP), PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18" S/C D (RCP), PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 24" S/C D (RCP), PVC PIPE FOR NON-STANDARD DRAINAGE, 8" SCH 80, PVC PIPE FOR NON-STANDARD DRAINAGE, 6" SCH 80 (ROOF LEADERS), ALUMINUM SIDEWALK FLOOR, PIPE HANDRAIL - GUARDRAIL, ALUMINUM, CONCRETE CURB AND GUTTER, TYPE F, CONCRETE CURB, TYPE D, CONCRETE SIDEWALK AND DRIVEWAYS (FIBER REINFORCE) (6" THICK), DETECTABLE WARNINGS (YELLOW), FENCE GATE, TYPE B, SLIDING/CANTILEVER, 24'-30" OPENING, PERFORMANCE TURF, SOD (MATCH EXISTING), LANDSCAPE- PALMS, SABAL PALMETTO, 9'-12' CLEAR TRUNK, LANDSCAPE-TREES, LIVE & LAUREL OAK, QUERCUS VIRGINIANA & LAURIFOLIA, 11'-14' OVERALL HEIGHT, LANDSCAPE-TREES, NATCHEZ CREPE MYRTLE & SILVER BUTTWOOD, 6" OVERALL HEIGHT, LANDSCAPE-TREES, TAXODIUM ASCENDENS, POND CYPRESS, 11'-14' OVERALL HEIGHT, LANDSCAPE- SMALL SHRUB, SPECIFIED, 7 GALLON, LANDSCAPE- IRRIGATION SYSTEM, MODIFICATION, SINGLE SIGN POST, UP TO 12 SF, SINGLE SIGN PANEL, H.C. SIGN, WALL-MOUNTED, PAINTED PAVEMENT MARKINGS (6" LF PARKING STALL STRIPES), PAINTED PAVEMENT MARKINGS (50 LF 6" DOUBLE YELLOW STRIPES), THERMOPLASTIC PAVEMENT MARKINGS, STANDARD SOLID WHITE, 12", THERMOPLASTIC PAVEMENT MARKINGS, STANDARD, SOLID WHITE, 24", THERMOPLASTIC PAVEMENT MARKINGS, SYMBOL, THERMOPLASTIC PAVEMENT MARKINGS, ARROW, LIGHT POLE AND ELECTRIC BOX COMPLETE, REMOVAL, UTILITY PIPE-POLY VINYL CHLORIDE, FURNISH & INST. ALL WATER, 2", UTILITY PIPE-POLY VINYL CHLORIDE, FURNISH & INST. ALL SEWER, 6", UTILITY STRUCTURE, BELOW GROUND, FURNISH & INST. ALL, 500 GAL OIL/WATER INTERCEPTOR, UTILITY FIXTURE - VALVE, FURNISH & INST. ALL, 2", UTILITY FIXTURE - TAPPING SADDLE, FURNISH & INST. ALL, 2", UTILITY FIXTURE - TAPPING SADDLE/SLEEVE, FURNISH & INST. ALL, 2" WITH 2" CORP STOP, UNDERGROUND UTILITY - MISC., EXISTING 4" FM ABANDONED IN PLACE.

SUMMARY OF PAY ITEMS

Table with columns: PAY ITEM NO., DESCRIPTION, UNIT, QUANTITY. Includes items like Mobilization, Maintenance of Traffic, Clearing and Grubbing, and various utility and pavement items.

Vertical sidebar containing: JOB NO. 21-0062, DESIGNED, DRAWN, DATE NOVEMBER 2021, CHECKED, DATE ISSUED 8/29/2023, REVISIONS, GENERAL NOTES AND SUMMARY OF QUANTITIES, NEW TRAFFIC OPERATIONS FACILITY FOR INDIAN RIVER COUNTY, FLORIDA, AARON G. STANTON LICENSE No. 72460 STATE OF FLORIDA PROFESSIONAL ENGINEER, SHEET C2, 21-0082.



PRIMARY BENCHMARK: THIS EXHIBIT WAS TIED TO INDIAN RIVER COUNTY BENCHMARKS, "BM065031" (EL.=23.15) AND "BM576003" (EL.=23.98). ELEVATIONS SHOWN HEREON HAVE A RELATIVE POSITION ACCURACY OF 0.3 FOOT, MORE OR LESS FOR GROUND SHOTS AND 0.1 FEET, MORE OR LESS FOR HARD SURFACES.

BID SET 06/30/2023

NOTE: ALL ELEVATIONS IN N.A.V.D. 1988

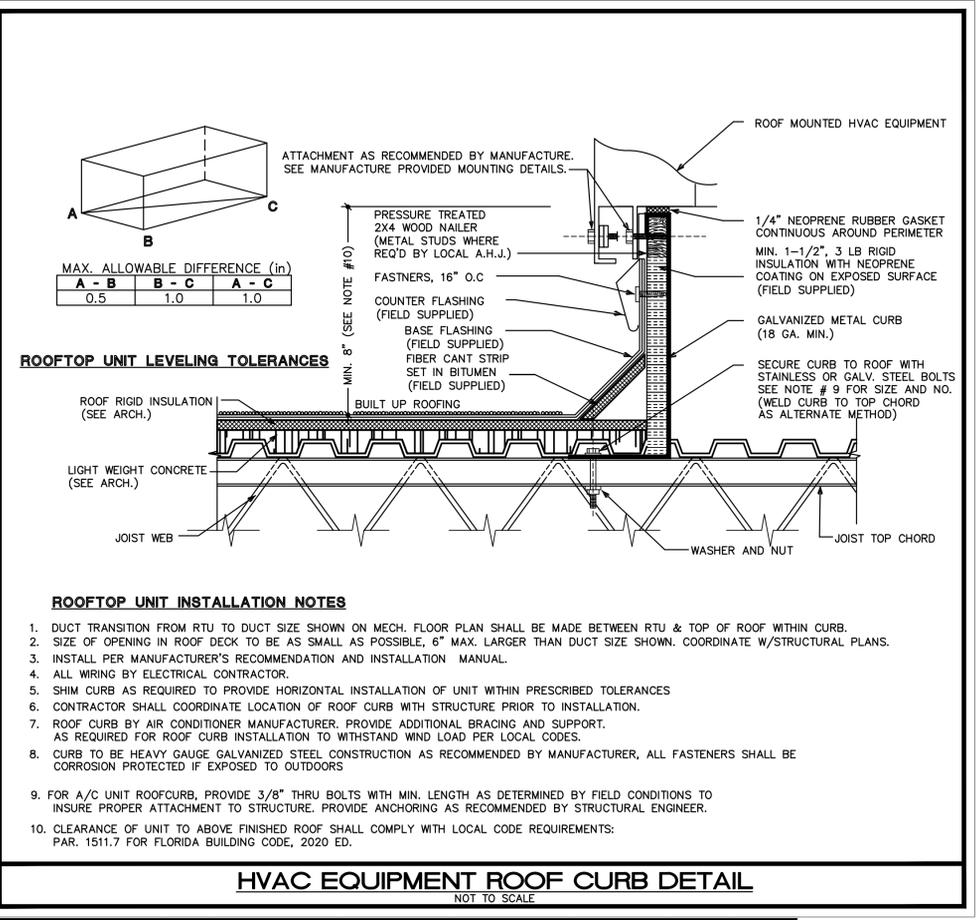
ROOFTOP A/C EQUIPMENT SCHEDULE

SYSTEM	A/C UNIT TAG	RTU-1	RTU-2	RTU-3	RTU-4	RTU-5
	MANUFACTURER	TRANE	TRANE	TRANE	TRANE	TRANE
MODEL	4WCZ6024A1000A	THC036E	THC092F	THC036E	THC074F	THC074F
TOTAL SENSIBLE CAP. MBH.	24.0	36.2	87.0	36.2	69.7	69.7
TOTAL COOLING CAP. MBH.	18.0	27.0	65.1	27.0	55.5	55.5
ENT. AIR TEMP D.B./W.B. F	78/65	78/65	78/65	78/65	78/65	78/65
LEAV. AIR TEMP D.B./W.B. F	56.36/54.49	56.36/54.49	57.12/54.95	56.36/54.49	55.82/54.93	55.82/54.93
SUPPLY AIR CFM	800	1200	3000	1200	2400	2400
OUTSIDE AIR CFM	80	150	375	150	300	300
VOLTAGE	208/1Ø/60	208/3Ø/60	208/3Ø/60	208/3Ø/60	208/3Ø/60	208/3Ø/60
MCA/MOCP	19.5/30.0	23/30	81.0/90.0	23/30	57.5/60.0	57.5/60.0
SEER/EER	16/-	15.0/12.7	14.5/12.6	15.0/12.7	15.5/13.1	15.5/13.1
OPERATING WEIGHT LBS.	442	481	928	481	918	918
DIMENSIONS L x W x H (IN.)	50x43x36	69x44x56	53x88x46	69x44x56	53x88x46	53x88x46
NOTES	1-14,16-18	1-18	1-18	1-18	1-18	1-18

COND. SECTION	REF./LBS.	R-410A/-	R-410A/6,2	R-410A/-	R-410A/6,2	R-410A/-
	NOMINAL TONNAGE/STAGES	2/2	3/2	7.5/2	3/2	6/2
NO. OF COMPRESSORS	-	1	2	1	1	1
COMP. R.L.A. EACH	11.7	10.4	15.9/10.0	10.4	14.6/7.1	14.6/7.1
NO. OF OUTDOOR FANS	1	1	1	1	1	1
FAN FLA. EACH	0.5	1.5	4.0	1.5	3.5	3.5

EVAP. SECTION	INDOOR FAN TYPE	FC	FC	FC	FC	FC
	FAN E.S.P. (IN. W.G.)	0.5"	0.5"	1"	0.5"	1"
FAN H.P./B.H.P.	0.5 BHP	0.2 BHP	2.75 BHP	0.2 BHP	2.75 BHP	2.75 BHP
FAN F.L.A.	4.3	4.9	7.3	4.9	7.3	7.3
COIL ROWS/FPI	-	3/16	4/16	3/16	4/16	4/16
HEATER TYPE	HEATPUMP	ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC	ELECTRIC
HEATER K.W. @ RATED VOLTAGE	20200 (BTUs)	4.5 @ 208V/3Ø	20.3 @ 208V/3Ø	4.5 @ 208V/1Ø	13.1 @ 208V/3Ø	13.1 @ 208V/3Ø
NO. OF STEPS	1	1	1	1	1	1
FILTER TYPE/EFF.						

NOTES:
 1. UNITS SHALL BE "ARI" RATED. SUBSTITUTIONS TO BE APPROVED BY ENGINEER.
 2. PROVIDE FACTORY BUILT ROOFCURB 14" HIGHT(20" IF NECESSARY). INSTALL UNIT LEVEL WITH PRESCRIBED TOLERANCES (SEE DETAIL).
 3. PROVIDE COMPRESSOR WITH 5-YEAR WARRANTY.
 4. PROVIDE SLOPED CONDENSATE DRAIN PAN AND INTERNAL TRAP.
 5. PROVIDE SERVICE CLEARANCE PER MANUFACTURER'S RECOMMENDATIONS.
 6. PROVIDE SINGLE POINT POWER ENTRY.
 7. PROVIDE FACTORY MOUNTED FUSED DISCONNECT, COORDINATE PRIOR TO PURCHASE AND INSTALLATION.
 8. PROVIDE VIBRATION/SOUND ISOLATION CURB.
 9. PROVIDE MOTOR OVERLOAD THERMAL PROTECTION.
 10. PROVIDE MATCHING PROGRAMMABLE THERMOSTAT.
 11. PROVIDE ELECTRONIC CONDENSATION CONTROL SYSTEM FOR DRAIN PANS(S).
 12. PROVIDE ELECTRIC HEATER WITH MIN. 2 STAGES IF OVER 10 KW CAPACITY.
 13. ALL EQUIPMENT SHALL COMPLY WITH WIND LOAD REQUIREMENTS SET BY LOCAL CODES, ORDINANCES, OR AUTHORITIES. WIND LOAD RATING MAY BE REQUIRED; CONTRACTOR TO PROVIDE NOA RATING IF REQUIRED.
 14. PROVIDE MOTORIZED DAMPER.
 15. PROVIDE CO2 SENSOR TO BE INTERLOCKED WITH MOTORIZED DAMPER.
 16. PROVIDE MINIMUM DUAL STAGE COMPRESSORS.
 17. PROVIDE LOW-VOL. IONIZATION DEVICE.
 18. PROVIDE TRANE BUILDING AUTOMATED CONTROLS FOR INTEGRATION WITH COUNTY BUILDING MANAGEMENT SYSTEM. CONTRACTOR TO COORDINATE WITH COUNTY AND MANUFACTURER.



OUTSIDE AIR CALCULATION

OCCUPANCY CLASSIFICATION	AREA	OCCUPANT DENSITY #/1000 SQ.FT	PEOPL OUTDOOR AIRFLOW RATE IN BRATH ZONE, Rp	AREA OUTDOOR AIRFLOW RATE IN BREATHING ZONE,	CODE REQUIRED OCCUPANT DENSITY	REQUIRED OA	PROVIDED OA
OFFICE	4280	5	5	0.06	21	364	475
CORRIDOR	2320	0	5	0.06	0	139	140
CONFERENCE	192	50	5	0.06	10	60	60
RECEPTION	120	30	5	0.06	4	25	50
WAREHOUSE	3782	-	10	0.06	10	327	330
TOTAL	10694					915	1055

SUPPLY AIR GRILLE SCHEDULE

TAG	MANUF. & MODEL	FACE SIZE	NECK SIZE	MATERIAL	FRAME	FINISH	DAMPER	THROW	NC	CFM RANGE	NOTES
A	TITUS/ TDCA-AA	24X24	SEE SCH.	ALUM.	NOTE #3	-	-	4-WAY	MAX. 30	SEE SCH.	1-6
B	TITUS/ TDCA-AA	12X12	SEE SCH.	ALUM.	NOTE #3	-	-	4-WAY	MAX. 30	SEE SCH.	1-6
C	TITUS/S300FS	20X8	SEE PLAN	ALUM.	DUCT MOUNTED	-	-	-	MAX. 30	SEE PLAN	4

(*) EQUIVALENT MANUFACTURER: METALAIRE, PRICE, CARNES, T & B, NAILOR

GENERAL NOTES

- PROVIDE SPIN-IN COLLAR AT TRUNK TO FLEX DUCT CONNECTION.
- PROVIDE TYPICAL 4-WAY DIFFUSION, 2-WAY OR 3-WAY ONLY WHERE INDICATED ON PLAN
- REFER TO ARCHITECT PLANS FOR CEILING TYPE.
- CONTRACTOR TO COORDINATE FINAL SELECTION WITH ARCHITECT AND OWNER
- FLEX DUCT SIZE TO BE SAME AS DIFFUSER NECK SIZE.
- PROVIDE INSULATION ON THE BACK OF DIFFUSER IF IN UNCONDITIONED SPACE

FLEX SCHEDULE	
6ø"	50-125 CFM
8ø"	130-200 CFM
10ø"	205-330 CFM
12ø"	335-450 CFM
14ø"	455-600 CFM
16ø"	605-700 CFM

CONTRACTOR SHALL VERIFY WITH ARCHITECT AND TENANT/OWNER, PRIOR TO ANY PURCHASING OR INSTALLATION, IF A BUILDING STANDARD HAS TO BE FOLLOWED REGARDING A SPECIFIC MODEL OR MANUFACTURER AND SHALL BRING ANY DISCREPANCY TO THE ATTENTION OF ENGINEER.

RETURN AIR GRILLE SCHEDULE

TAG	MANUF. & MODEL	FACE SIZE	NECK SIZE	MATERIAL	FRAME	FINISH	DAMPER	THROW	NC	CFM RANGE	NOTES
AA	TITUS/PAR-AA	24X24	SEE SCH.	ALUM.	NOTE #1	-	-	-	MAX. 30	SEE SCH.	1-3
BB	TITUS/PAR-AA	12X12	SEE SCH.	ALUM.	NOTE #1	-	-	-	MAX. 30	SEE SCH.	1-3
CC	TITUS/ 3FL	38X20	SEE PLAN	ALUM.	SIDE WALL	-	-	-	MAX. 30	SEE PLAN	1
DD	TITUS/ 3FL	20X16	SEE PLAN	ALUM.	SIDE WALL	-	-	-	MAX. 30	SEE PLAN	1

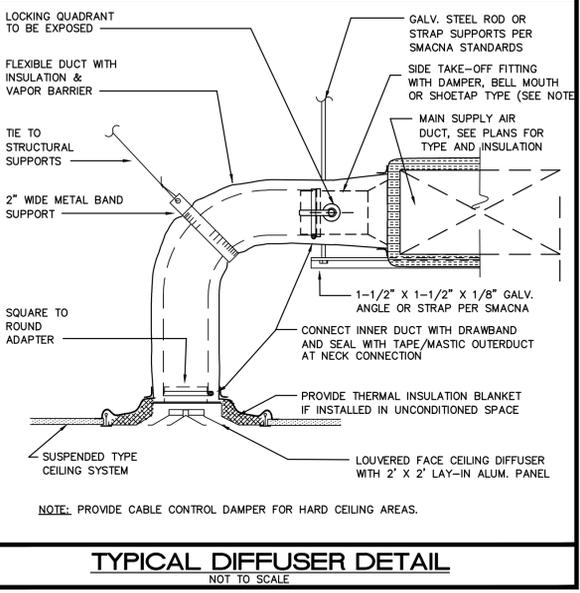
(*) EQUIVALENT MANUFACTURER: METALAIRE, PRICE, CARNES, T & B, NAILOR

GENERAL NOTES

- REFER TO ARCHITECT PLANS FOR CEILING TYPE.
- CONTRACTOR TO COORDINATE FINAL SELECTION WITH ARCHITECT AND OWNER.
- PROVIDE INSULATION ON THE BACK OF DIFFUSER IF IN UNCONDITIONED SPACE

NECK SIZE	CFM RANGE	NECK SIZE	CFM RANGE
6X6	0-150 CFM	15X15	0-900 CFM
8X8	0-250 CFM	18X18	0-1350 CFM
10X10	0-400 CFM	22X22	0-2000 CFM
12X12	0-600 CFM		

CONTRACTOR SHALL VERIFY WITH ARCHITECT AND TENANT OR OWNER, PRIOR TO ANY PURCHASING OR INSTALLATION, IF A BUILDING STANDARD HAS TO BE FOLLOWED REGARDING A SPECIFIC MODEL OR MANUFACTURER AND SHALL BRING ANY DISCREPANCY TO THE ATTENTION OF ENGINEER.



VENTILATOR SCHEDULE

SELECTION DATA				VENTILATOR DATA						
TAG	SERVICE AREA	MANUF.(*)	MODEL	CONFIG.	CFM	ESP (WG)	WEIGHT (LBS)	DIMENSIONS L"xW"xH"	OPENING L"xW"	ACCESSORIES
GH-1	SERVICE RECEPTION STALL	COOK	GI	ROOFTOP	5000	.021	191	63X62X20	42X42	1-4

(*) APPROVED EQUAL MANUFACTURER: COOK, TWIN-CITY, ACME, PENN

GENERAL FAN NOTES:

- ALL OUTDOOR EQUIPMENT SHALL COMPLY WITH LOCAL ZONING NOISE ORDINANCE OR NOT EXCEED A NOISE LEVEL OF 65 dB AS MEASURED RADIALLY 30 FT. FROM THE EQUIPMENT IN ALL DIRECTIONS.
- ALL EQUIPMENT SHALL COMPLY WITH WIND LOAD REQUIREMENTS SET BY LOCAL CODES, ORDINANCES, OR AUTHORITIES. WIND LOAD RATING MAY BE REQUIRED; CONTRACTOR TO PROVIDE NOA RATING IF REQUIRED.

ACCESSORIES NOTES:

- PROVIDE BACKDRAFT DAMPER.
- PROVIDE ROOF CURB.
- PROVIDE CORROSION PROTECTION.
- PROVIDE VIBRATION ISOLATORS.

ISSUED FOR PERMIT 06-29-23

KAMM CONSULTING PROJECT #: 2021-0432
 PROJECT MANAGER: DUANE MILLAR

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 Certification of Authorization #8189

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Project: **NEW PROPOSED TRAFFIC OPERATIONS FACILITY**

4548 41st Street
 Vero Beach FL
 32967

Key Plan:

Issues:

No.:	Date:	Description:
A.	03-21-22	PERMIT SET
B.	06-01-22	BDC RESPONSE
C.	06-22-22	BDC RESPONSE
D.	08-29-23	COORDINATION

Architect:

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Consultant:

Drawing Title: **MECHANICAL SCHEDULES**

Drw: _____ Dwg. File: _____
 Chd: J.L.H. XREF File: _____
 TD Plot File: _____
 2021-20 _____
 Sheet No.: _____

Cert. No.: 12,456

Date Signed: **M6.1**

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