

PININFARINA BUS SHELTERS

CITY WIDE PROTOTYPES - MIAMI BEACH, FL

DESIGN INTENT DRAWINGS

06.24.2020

BOARD OF COMMISSIONERS		PROJECT TEAM			
MAYOR DAN GELBER					
COMMISIONER - SEAT 1 MICKY STEINBERG					
COMMISIONER - SEAT 2 MARK SAMUELIAN					
COMMISIONER - SEAT 3 MICHAEL GONGORA			Ē	ARCHITECT OF RECORD:	
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GENERAL CONTRACTOR PROVIDED ACOUSTICAL ACOUST. SYMBOL DESCRIPTION A. PROJECT SPECIFIC NOTES: H. GENERAL CONTRACTOR RESPONSIBILITIES: ADJUSTABLE GCP GLASS GWB GYPSUM WALL BOARD INDICATES DIRECTION 1. ALL WORK TO COMPLY WITH ALL LOCAL, STATE, NATIONAL, AND FEDERAL REGULATIONS THE INTENT OF THE DESIGN INTENT PACKAGE ARE TO SHOW THE (2) PROTOTYPICAL BUS ABOVE FINISH FLOOR OF TRUE NORTH SHELTER DESIGNS THE CITY OF MIAMI BEACH INTENDS TO USE FOR THIS CONTRACT. THE HAVING JURISDICTION OVER THIS PROJECT. NORTH ARROW HDWR HARDWARE AIR CONDITIONING UNIT 2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH BUILDING REGULATIONS AND IN A **DESIGN INTENT PACKAGE CONSISTS OF THREE PARTS:** A. DESIGN INTENT DRAWINGS QUALITY WORKMANSHIP LIKE MANNER. HM **HOLLOW METAL** AIR HANDLING UNIT B. VALUE ENGINEERING DRAWINGS (INDICATE REVISIONS AND FLEXIBILITY INTRODUCED 3. BEFORE COMMENCING WORK, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND HORIZ. HORIZONTAL ALUM. ALUMINUM TO REDUCE THE SHELTER CONSTRUCTION COSTS) EXISTING CONDITIONS IN THE FIELD. ANY DISCREPANCY BETWEEN THE EXISTING **VIEW TITLE** C. ACTUAL 3D MODEL OF THE SHELTERS FROM PININFARINA CONDITIONS AND THE CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE HP HIGH POINT APPROX. **APPROXIMATELY** VIEW NUMBER, TITLE, ATTENTION OF THE ARCHITECT IN WRITING PRIOR TO THE PREPARATION OF BID AND D. GUIDELINES FOR TECHNOLOGY COMPONENTS FOR ENHANCED SHELTER AMENITIES & SCALE HVAC HEATING, VENTILATION & A/C . THE DESIGN INTENT PACKAGES REPRESENTS THE AESTHETIC CHARACTER, BOARD SIZE/MASSING, MATERIALITY, TECHNICAL REQUIREMENTS, COMPONENTS, AND AMENITIES 4. IF FIELD CONDITIONS NECESSITATE ANY CHANGES OR MODIFICATIONS, THE CHANGES OR IN. IN/INCHES THAT ARE DESIRED. THE VENDOR SHALL BE FULLY RESPONSIBLE FOR DEVELOPING A BLDG. BUILDING MODIFICATIONS MUST BE APPROVED BY THE ARCHITECT AND OWNER PRIOR TO TURN-KEY DESIGN AND FABRICATION OF THE SHELTERS THAT MATCHES THE DESIGN IN PROCEEDING WITH WORK. INSULATION INSUL. **BLOCK** VIEW # ON THESE DRAWINGS. 5. ALL EXISTING WORK NOT INDICATED FOR DEMOLITION SHALL BE PROTECTED FROM SHEET LT. WT. LIGHT WEIGHT **BUILDING SECTION TAG** . ANY DEVIATIONS FROM THESE DRAWINGS NEED TO BE REVIEWED WITH THE CITY, ACAI, DAMAGE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE CAUSED BY THE BLKG. BLOCKING AND PININFARINA PRIOR TO AN AGREEMENT BEING FINALIZED. THE DESIGNS SHOWN CONSTRUCTION PROCESS. MAX MAXIMUM **BOTTOM OF** SHEET # 、A101 //--HEREIN HAVE BEEN PREVIOUSLY APPROVED BY THE HISTORIC PRESERVATION AND 6. THE CONTRACTOR SHALL COORDINATE ALL APPLICABLE WORK WITH ALL ASSOCIATED DESIGN REVIEW BOARDS. ONCE A DESIGN IS FINALIZED THE VENDOR SHALL HAVE A MECH. MECHANICAL **BUILT UP ROOF** MEETING WITH THE STAFF FROM THE RESPECTIVE BOARDS TO REVIEW. THE VENDOR 7. ALL SUBCONTRACTORS SHALL SUBMIT SHOP DRAWINGS THROUGH THE CONTRACTOR. VIEW # ON MEP MECHANICAL, ELECTRICAL & PLUMBING CABINET SHALL BE FULLY RESPONSIBLE FOR PROVIDING A FINAL DESIGN THAT IS APPROVED BY ONCE CHECKED, THE CONTRACTOR SHALL SUBMIT THE SHOP DRAWINGS TO THE SHEET WALL / PARTIAL SECTION THESE BOARDS. ARCHITECT FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION AND INSTALLATION. MANUFACTURING MFG. **CATCH BASIN** THE ELEMENTS SHOWN HEREIN ARE INTENDED TO BE TYPICAL AND REPETITIVE. THE 8. MANUFACTURER'S DIRECTIONS FOR APPLICATION, INSTALLATION, AND METHODS SHALL MIN. MINIMUM VENDOR SHALL BE FULLY RESPONSIBLE FOR DEVELOPING FULL SITE SPECIFIC & PERMIT BE FOLLOWED AND HEREWITH MADE A PART OF CONSTRUCTION DOCUMENTS. CEM. CEMENT DRAWINGS THAT ACCOMMODATE THE DIFFERENT SITE CONDITIONS. ANY SITE SPECIFIC DIRECTIONS FOR APPLICATION, INSTALLATION, AND METHODS SHALL BE FOLLOWED AND MISCELLANEOUS MISC. **CORNER GUARD** CONDITION THAT WILL DRASTICALLY ALTER THE APPEARANCE OF THE SHELTER SHALL 1 ---- VIEW # HEREWITH MADE A PART OF CONSTRUCTION DOCUMENTS. BE REVIEWED WITH THE CITY BEFORE IMPLEMENTATION. 9. CONTRACTOR IS TO EXERCISE SPECIAL CARE IN THE HANDLING OF MATERIALS, ON SHEET ON MO MASONRY OPENING CERAMIC TILE SHEET EQUIPMENT, AND RUBBISH TO AVOID INCONVENIENCE AND ANNOYANCE TO ADJACENT MTL. METAL B. SHOP DRAWINGS & QUALITY CONTROL: **ELEVATION TAGS** CONTROL JOINT BUILDINGS AND TENANT AREAS. SHEET # \rightarrow A101 10. ALL PHASING AND ALTERNATE DAILY ROUTES DURING CONSTRUCTION SHALL BE NOT IN CONTRACT SHEET # NIC CLKG. CAULKING THESE DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN, AND DEVELOPED BY THE CONTRACTOR AS PART OF THEIR MEANS AND METHODS. **EXTERIOR** INTERIOR EXTENT OF THE WORK ONLY. THEY ARE NOT INTENDED TO BE SCALED OR TO SERVE AS NOT TO SCALE COORDINATE ALL PHASING WITH THE OWNER. NTS CLNG. CEILING SHOP DRAWINGS OR PORTIONS THEREOF. 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF SAFETY ON CENTER OC . DO NOT SCALE DRAWINGS. DIMENSIONS PROVIDED ON THESE DRAWINGS ARE GENERAL CLR. CLEAR BARRICADES TO ENSURE SAFETY INSIDE THE BUILDING DURING CONSTRUCTION IN AREAS TO SHOW BASIC ARRANGEMENTS AND EXTENTS. CONTRACTOR WILL NEED TO USE 3D AFFECTED BY THIS CONTRACT. VIEW# OH OPPOSITE HAND CLOSET MODELS SUPPLIED BY PININFARINA AS A BASIS FROM WHICH TO DEVELOP SHOP 12. MEANS AND EGRESS SHALL BE CONTINUOUSLY MAINTAINED FREE OF ALL OBSTRUCTIONS ON SHEET OWNER INSTALLED OI IN CASE OF FIRE OR OTHER EMERGENCY. CONCRETE MASONRY UNIT CALLOUT TAGS IT IS HIGHLY DESIRABLE THAT A SOLE FABRICATOR BE UTILIZED TO ASSEMBLE THE 13. NO SUBSTITUTIONS ARE TO BE MADE WITHOUT APPROVAL BY THE ARCHITECT AND SHEET # ——★A101 OP OWNER PROVIDED CLEAN OUT COMPLETE SHELTER STRUCTURE, COMPONENTS, AND EQUIPMENT, THE SHOP DRAWINGS OWNER. CONTRACTOR TO SUBMIT SUBSTITUTE MATERIAL SPECIFICATIONS FOR FROM THIS FABRICATOR SHALL INDICATE ALL WORK NECESSARY FOR THE SHELTER APPROVAL IN WRITING TO THE ARCHITECT AND OWNER PRIOR TO COMMENCEMENT OF OVHD. OVERHEAD COLUMN CONSTRUCTION AND BE SIGNED & SEALED BY A FL REGISTERED ENGINEER. SUITABLE MANUFACTURERS INCLUDE BUT ARE NOT LIMITED TO: PPE PERSONAL PROTECTIVE EQUIPMENT CONC. 14. CONTRACTOR SHALL HAVE AND ENGLISH-SPEAKING SUPERVISOR/REPRESENTATIVE ON CONCRETE A. LANDSCAPE FORMS THE WORK SITE AT ALL TIMES, WHO SHALL BE THOROUGHLY KNOWLEDGEABLE OF ALL **COLUMN GRID** (0)————— P.T. PRESSURE TREATED CONST. CONSTRUCTION B TOLAR PLANS, SPECIFICATIONS, AND OTHER CONTRACT DOCUMENTS AND HAS THE AUTHORITY DESIGNATIONS C. FORMS AND SURFACES TO ACT IN THE CONTRACTOR'S BEHALF. PTD. PAINTED CONT. CONTINUOUS D. FUTURE SYSTEMS INC. 15. ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED. **ELEVATION TAG** QTY. QUANTITY E. BRASCO INTERNATIONAL **CENTER LINE** 16. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE BUS SHELTERS ARE INTENDED TO BE A HIGH QUALITY, SEAMLESS, AND ALL-INCLUSIVE COMMENCING WORK. RCP REFLECTED CEILING PLAN C.P.T. COMMON PATH OF TRAVEL FABRICATION. THIRD PARTY COMPONENTS AND EQUIPMENT MUST BE SEAMLESSLY TYPICAL MATERIALS INTEGRATED INTO THE STRUCTURE FOLLOWING THESE DRAWINGS AS A GUIDELINE. REFERENCE RE: DETAIL I. PROGRESS CLEANING: THE STRUCTURAL COMPONENTS AND ANY ADDITIONAL CONNECTIONS / MATERIALS REF: REFERENCE DRINKING FOUNTAIN REQUIRED TO BRIDGE GAPS BETWEEN THE STRUCTURE AND OTHER COMPONENTS AND 1. MAINTAIN AREAS FREE OF WASTE MATERIALS, DEBRIS, AND RUBBISH. MAINTAIN SITE IN A CONCRETE MASONRY EQUIPMENT SHALL BE OF THE SAME FINISH AND AS SEAMLESS AS FEASIBLE. REQD. REQUIRED DIAMETER CLEAN AND ORDERLY CONDITION. . ELEMENTS OF THE SHELTER STRUCTURE DEPICTED IN THESE DRAWINGS SHALL BE SIZED, 2. CONDUCT CLEANING AND DISPOSAL OPERATIONS TO COMPLY WITH LOCAL ORDINANCES R.D. **ROOF DRAIN** FABRICATED AND DETAILED TO ALLOW ASSEMBLY IN THE FIELD WITH EASE AND WITHOUT DIMENSION PLYWOOD CONCRETE AND ANTI-POLLUTION LAWS: A) DO NOT DISPOSE OF VOLATILE WASTES SUCH AS MINERAL THE NEED OF CRANES OR SIMILAR ERECTION METHODS. SEE INCLUDED PININFARINA SPIRITS, OIL, OR PAINT THINNER IN STORM OR SANITARY SEWER, B) DO NOT DISPOSE OF R.O. **ROUGH OPENING** DOWN DIAGRAMS FOR PROPOSED SEPARATION POINTS. WASTES INTO STREAMS OR WATERWAYS. USE MATERIALS WHICH WILL NOT CREATE SHOP DRAWINGS SHALL BE REVIEWED AND APPROVED BY THE CITY, ACAI, AND GYPSUM DOOR OPENING SBBC. SCHOOL BOARD OF BROWARD COUNTY HAZARDS TO HEALTH OR PROPERTY, AND WHICH WILL NOT DAMAGE SURFACES. WOOD PININFARINA PRIOR TO BEGINNING ANY FABRICATION OR CONSTRUCTION. 3. USE ONLY MATERIALS AND METHODS RECOMMENDED BY MANUFACTURER OF MATERIAL SCHED. SCHEDULE DWG. DRAWING SUBMITTALS FOR ALL COMPONENTS AND EQUIPMENT SHOWN ON THESE DRAWINGS THAT BFING CLEANED. STUCCO ARE REQUIRED FOR THE SHELTER CONSTRUCTION SHALL BE REVIEWED AND APPROVED STEEL SCW 4. PROVIDE CONTAINERS AND LOCATE ON SITE FOR COLLECTION OF WASTE MATERIALS, SOLID CORE WOOD EACH BY THE CITY, ACAI, AND PININFARINA. RUBBISH, AND DEBRIS WHEN APPLICABLE. 9. CITY/ ACAI / PININFARINA REVIEW OF THE SHOP DRAWINGS / SUBMITTALS IS LIMITED TO SHT. SHEET **EXHAUST FAN** 5. EXECUTE CLEANING TO ENSURE THAT BUILDING, GROUNDS, AND PUBLIC PROPERTIES ARE CHECKING FOR CONFORMANCE WITH THE INFORMATION GIVEN AND THE DESIGN ALUMINUM INSULATION MAINTAINED FREE FROM ACCUMULATIONS OF WASTE MATERIALS AND RUBBISH. SIM. SIMILAR **EXPANSION JOINT** CONCEPT EXPRESSED IN THESE DRAWINGS. THE CONTRACTOR REMAINS TOTALLY 6. USE EXPERIENCED WORKMEN OR PROFESSIONAL CLEANERS FOR FINAL CLEANING. RESPONSIBLE FOR ALL DIMENSIONS, QUANTITIES, CONSTRUCTION METHODS AND MEANS. SPEC. **SPECIFICATIONS** 7. REMOVE WASTE, DEBRIS, AND SURPLUS MATERIALS FROM SITE, CLEAN GROUNDS: ELEC. **ELECTRICAL** TILE / STONE TECHNIQUES, SEQUENCES IN THE WORK, AND PROCEDURES. REMOVE STAINS, SPILLS, AND FOREIGN SUBSTANCES RESULTING FROM CONSTRUCTION S.S. STAINLESS STEEL **ELEVATION** WORK FROM PAVED AREAS, AND SWEEP CLEAN. RAKE OTHER EXTERIOR SURFACES AS C. SAMPLES & MOCK-UP: **DESIGN INTENT INDEX** APPLICABLE. STD. STANDARD **EQUAL** AFTER SHOP DRAWINGS APPROVAL, PROVIDE MOCK-UPS OR FIRST ARTICLES OF HE STL. STEEL EYE WASH SHEET NO. DESCRIPTION FOLLOWING (FOR REVIEW AND APPROVAL BY THE CITY, ACAI, AND PININFARINA): J. TEMPORARY CONTROLS: STOR. STORAGE **EXISTING** A-0 COVER SHEET 06/24/20 A. MAJOR STRUCTURAL COMPONENTS (VERTICAL POSTS AND CONNECTOR, ROOF AND EXIST. ATERAL BEAMS) AND THEIR CONNECTIONS AND/OR ASSOCIATED CLADDING GENERAL NOTES 1. NOISE CONTROL: PROVIDE ALL NECESSARY REQUIREMENTS FOR NOISE CONTROL DURING STRUCTURAL STRUCT. FLORIDA BUILDING CODE B. PV INTEGRATED GLAZING WITH CERAMIC FRIT PATTERN AND ITS CONNECTION TO THE STANDARD / ENHANCED 20' x 6.5' - FLOOR PLAN, CONSTRUCTION PERIODS. CONFORM WITH APPLICABLE OSHA REQUIREMENTS AND LOCAL 06/24/20 SUSPENDED SUSP. FLOOR DRAIN REFLECTED CEILING PLAN, ELEVATIONS ORDINANCES HAVING JURISDICTION. C. VERTICAL GLAZING WITH COLOR, SAMPLE PATTERN, SAMPLE LOCATION, AND SAMPLE STANDARD / ENHANCED 20' x 3' - FLOOR PLAN, 2. DUST CONTROL: EXECUTE WORK BY METHODS TO MINIMIZE RAISING DUST FROM 06/24/20 T.D. TRAVEL DISTANCE FIRE EXTINGUISHER CITY NAME; AND ITS CONNECTION TO THE STRUCTURE. CONSTRUCTION OPERATIONS. PROVIDE POSITIVE MEANS TO PREVENT AIR-BORN DUST REFLECTED CEILING PLAN, ELEVATIONS D. CONCRETE SURFACE REFLECTIVE PAINT. TELEPHONE TEL. FROM DISPERSING INTO ATMOSPHERE. FIRE EXTINGUISHER CABINET A-5 DETAILS 06/24/20 E. SEATING MATERIAL AND FINISH. 3. DEBRIS CONTROL: MAINTAIN ALL AREAS FREE OF EXTRANEOUS DEBRIS. PROVIDE A-6 DETAILS TYP. **TYPICAL** 06/24/20 F. LEANING RAIL MATERIAL AND FINISH. FINISH FLOOR CONTAINERS FOR DEPOSIT OF DEBRIS. AFTER THE FIRST ARTICLE APPROVAL PROCESS, IT IS DESIRED BY THE CITY TO HAVE AT VALUE ENGINEERING DRAWINGS 04/08/20 4. POLLUTION CONTROL: PROVIDE METHODS, MEANS, AND FACILITIES TO PREVENT UNDERWRITERS LAB **FINISH** U.L. LEAST (1) FULL SIZE PROTOTYPE OF A 6.5' X 20' SHELTER. WITH ALL OF THE REQUIRED 3D PININFARINA MODEL (VIA DOWNLOAD LINK) CONTAMINATION OF SOIL, WATER, AND ATMOSPHERE FROM DISCHARGE OF NOXIOUS. COMPONENTS BE FABRICATED FOR REVIEW AND APPROVAL. THE CITY IS OPEN TO U.N.O. UNLESS NOTED OTHERWISE TOXIC SUBSTANCES, AND POLLUTANTS PRODUCED BY CONSTRUCTION OPERATIONS. FLOOR MINIMUM TECHNICAL REQUIREMENTS ALTERNATIVE SUGGESTIONS OF WITH THE GOAL OF HAVING A CHECKPOINT BY WHICH VCT VINYL COMPOSITE TILE THE CITY CAN CONFIRM THE FABRICATION MEETS THE AESTHETIC INTENT. FIRE PROTECTION K. REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS: VIF VERIFY IN FIELD FIRE TREATED D. GLAZING REQUIREMENTS 1. CLEAN AND REPAIR DAMAGE CAUSED BY INSTALLATION OR USE OF TEMPORARY WORK. WITH W/ FEET/FOOT 2. RESTORE EXISTING FACILITIES USED DURING CONSTRUCTION TO ORIGINAL CONDITION. VERTICAL GLAZED PANELS RESTORE PERMANENT FACILITIES USED DURING CONSTRUCTION TO SPECIFY CONDITION. W.C. WATER CLOSET GALV. GALVANIZED A. SIZES, SHAPES, AND INSTALL CONFIGURATION AS SHOWN IN THE DRAWINGS. B. LAMINATED, RATED FOR LARGE MISSILE IMPACT. L. CONTRACT CLOSEOUT: GAUGE W.P. WATERPROOFING C. TINTED LAMINATE, COLOR TBD. GENERAL CONTRACTOR INSTALLED YD. . HORIZONTAL ROOF GLAZING WITH & WITHOUT INTEGRATED PV CELLS DEPENDING ON 1. SUBMIT WRITTEN CERTIFICATION THAT CONTRACT DOCUMENTS HAVE BEEN REVIEWED. WHETHER THE SHELTER IS TO RECEIVE DEDICATED POWER. WORK HAS BEEN INSPECTED, AND THE WORK IS COMPLETE IN ACCORDANCE WITH **SUMMARY OF WORK** A. SIZES, SHAPES, AND INSTALL CONFIGURATION AS SHOWN IN THE DRAWINGS. CONTRACT DOCUMENTS AND READY FOR ARCHITECT'S REVIEW. B. ANY SHELTER THAT WILL NOT HAVE DEDICATED POWER SHALL HAVE THE PV CELLS. 2. PROVIDE SUBMITTALS TO ARCHITECT THAT ARE REQUIRED BY GOVERNING OR OTHER C. ROOF SYSTEM SHALL BE COLOR TINTED LAMINATED, AND IMPACT RATED FOR LARGE AUTHORITIES. 3. ADJUST OPERATING PRODUCTS AND EQUIPMENT TO INSURE SMOOTH AND UNHINDERED MISSILE IMPACT. INTER-LAYER SHALL CONSIST OF INTEGRATED 6"X6" PV CRYSTALLINE NEW PROTOTYPICAL BUS SHELTERS TO BE DEPLOYED CITYWIDE UNDER SITE SPECIFIC SEPARATE PERMITS. SOLAR CELLS, SPACED AS SHOWN. CUSTOM PATTERN CERAMIC FRIT SHALL BE APPLIED TO UNDERSIDE OF BOTTOM LAYER. SEE DETAILS AND ELECTRICAL DRAWINGS 4. REMOVE TEMPORARY PROTECTION AND LABELS NOT REQUIRED TO REMAIN. FOR MORE INFORMATION. PROTOTYPE SIZES INCLUDE THE FOLLOWING: STANDARD SHELTERS SHALL HAVE "ENHANCED" SHELTERS SHALL HAVE D. ACCEPTABLE MANUFACTURERS INCLUDE BUT ARE NOT LIMITED TO: A PV ROOF SYSTEM TO POWER THE DEDICATED POWER AND INCLUDE THE a. SOLAR ONYX (BASIS OF DESIGN) STANDARD / ENHANCED (20' X 6.5') SHELTER LIGHTING AND POSSIBLY A FOLLOWING AMENITIES AS AGREED b. CRAWFORD TRACY STANDARD / ENHANCED (20' X 3') SMALL PASSENGER INFORMATION UPON WITH THE VENDOR AND CITY: c. SOLARIA TEMPORARY SHELTERS (10' X 3', 10' X 6.5') SYSTEM. THEY SHALL HAVE THE 1. DIGITAL AD DISPLAYS d. DEAMOR 2. PASSENGER INFORMATION SYSTEM FUTURE ABILITY TO ADD DEDICATED e. ENERGY GLASS POWER AND RECEIVE THE (VISUAL & AUDIBLE) f. Pilkington ENHANCED AMENITIES. 3. CCTV SECURITY CAMERAS g. WALTERS & WOLF SHOP DRAWINGS FOR GLAZING INSTALLATION SHALL BE FULLY INTEGRATED & COORDINATED INTO THE OVERALL SHOP DRAWINGS REQUIRED IN SECTION "C" OF THESE **APPLICABLE CODES** E. AD-BOX REQUIREMENTS THE FOLLOWING IS A LIST OF APPLICABLE CODES THAT WERE USED AS THE BASIS OF DESIGN FOR THE PROJECT. THE VENDOR SHALL BE FULLY RESPONSIBLE FOR ENSURING THE FINAL BUS STOP DESIGN MEETS ALL APPLICABLE CODES. GENERAL SIZE, SHAPE, AND LOCATION AS SHOWN IN THE DRAWINGS. THE AD-BOX DEPICTED IN THESE DRAWINGS IS INTENDED TO HOUSE A VARIETY OF FLORIDA BUILDING CODE 6TH EDITION (2017) BUILDING OPTIONS INCLUDING A 4'X6' STANDARD STATIC AD POSTER, AND / OR DIGITAL DISPLAYS, FLORIDA BUILDING CODE 6TH EDITION (2017) ACCESSIBILITY SINGLE OR DOUBLE-SIDED, AT THE DISCRETION OF THE VENDOR. FLORIDA BUILDING CODE 6TH EDITION (2017) MECHANICAL FOR STATIC ADS - REMOVABLE ACCESS PANELS SHALL BE SUPPLIED ON EACH FACE. NATIONAL ELECTRIC CODE (2014) SHOP DRAWINGS FOR THE AD-BOX SHALL BE FULLY INTEGRATED INTO THE OVERALL FLORIDA BUILDING CODE 6TH EDITION (2017) PLUMBING SHOP DRAWINGS REQUIRED IN SECTION "H" OF THESE NOTES. FLORIDA FIRE PREVENTION CODE EDITION (2015) F. SHELTER STRUCTURE PAINT BUILDING/ZONING: MIAMI BEACH, FLORIDA FIRE JURISDICTION: MIAMI BEACH, FLORIDA FABRICATOR RECOMMENDED DURABLE POWDER -COAT FINISH COMPLYING WITH AAMA 2605. OR APPROVED EQUAL. 10 YEAR MINIMUM WARRANTY. . COLOR AND FINISH FROM MANUFACTURER OPTIONS TO BE SELECTED BY **BUILDING DATA** ARCHITECT. PROVIDE 6X6 COLOR SAMPLES FOR REVIEW. CONSTRUCTION TYPE (FBC TABLE 601) TYPE VB G. FABRIC MATERIAL (TEMPORARY SHELTERS): SUNBRELLA OR EQUAL. PROVIDE COLOR SAMPLES FOR REVIEW. FABRIC MATERIAL MUST BE ABLE TO WITHSTAND DURATION FOR WHICH THE TEMPORARY SHELTER WILL BE IN PLACE OR BE REPLACED BY THE VENDOR AS REQUIRED. MISCELLANEOUS - GROUP U OCCUPANCY CLASSIFICATION (FBC CHAPTER 3 & 4)

ARCHITECTURAL ABBREVIATIONS

SYMBOL LEGEND

GENERAL NOTES

REVISION DATE

PROJECT TEAM
PROFESSIONALIN CHARGE

ADOLFO J. COTILLA, JR., AIA

REGISTRATION
NUMBER

APPROVED BY

AJC

DESIGNED BY

PININFARINA / ACAI

DRAWN BY

CHECKEDBY

DESIGN CONSULTANT

ЛІАМІ**ВЕАСН**

PININFARINA BUS SHELTERS

CITY OF MIAMI BEACH

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GENERAL NOTES

SHEET TITLE

associates, in c. architecture engineering roofing consulting

construction management

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17-012 G01

ARCHITECT OF RECORD

PROJECT NUMBER

A-1

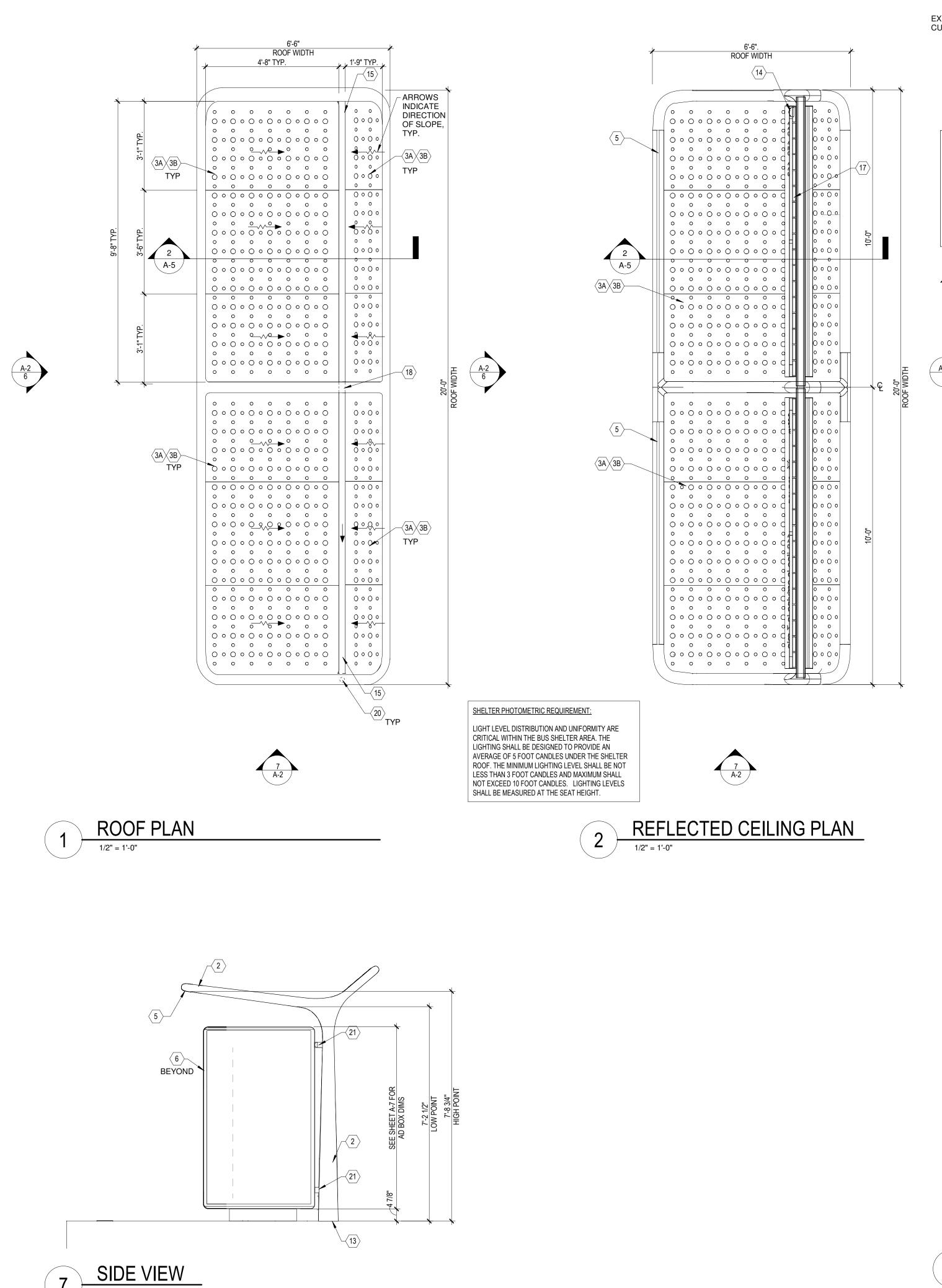
S H E E T N U M B E R

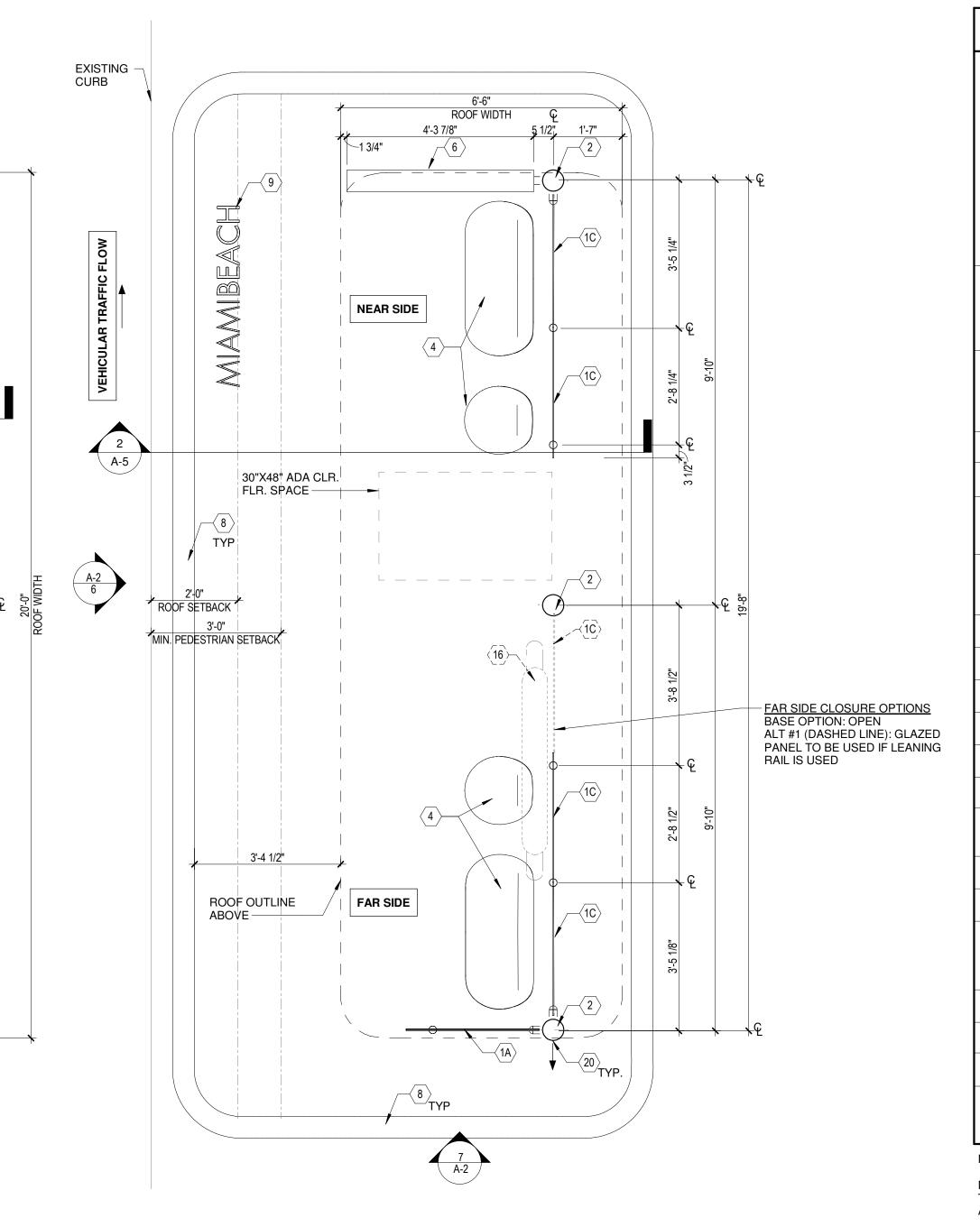
TO THE BEST OF MY KNOWLEDGE
AND ABILITY THESE PLANS ARE
COMPLETE AND COMPLY WITH THE
APPLICABLE BUILDING CODES

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FLOOR/ROOF PLAN KEY NOTES LARGE GLAZED SIDE PANEL, 3/8" THICK, TINTED LAMINATED IMPACT GLAZING.

SEE PLACEMENT OPTIONS AND TYPICAL DETAILS ON SHEET A-5. A FULL GLAZED PANEL IS THE PREFERRED OPTION, SEE VALUE ENGINEERING DRAWINGS FOR ALTERNATIVE OPTIONS THAT ALLOW FOR INCORPORATING A COLUMN TO PROVIDE AN EXTRA TIE DOWN POINT TO THE FOUNDATION.

SMALL GLAZED SIDE PANEL, 3/8" THICK, TINTED LAMINATED IMPACT GLAZING SEE PLACEMENT OPTIONS AND TYPICAL DETAILS ON SHEET A-5. A FULL GLAZED PANEL IS THE PREFERRED OPTION, SEE VALUE ENGINEERING DRAWINGS FOR ALTERNATIVE OPTIONS THAT ALLOW FOR INCORPORATING A COLUMN TO PROVIDE AN EXTRA TIE DOWN POINT TO THE FOUNDATION.

REAR GLAZED PANEL, 3/8" THICK, TINTED LAMINATED IMPACT GLAZING, SEE

PLACEMENT OPTIONS AND TYPICAL DETAILS ON SHEET A-5. ALUMINUM SHELTER STRUCTURE. ALUMINUM MAY BE STRUCTURAL OR CLADDIN OVER A STEEL STRUCTURE. GEOMETRY SHALL MATCH THE 3D MODELS SUPPLIE BY PININFARINA. THE SIZES IN THE 3D MODEL SHALL BE CONSIDERED "MAXIMUM SEE INCLUDED VALUE ENGINEERING DRAWINGS FOR MORE INFORMATION. ALUMINUM SHALL HAVE A CONSISTENT FINISH & APPEARANCE THROUGHOUT AND SHALL BE PAINTED PER THE SPECIFICATIONS ON SHEET A-1.

IMPACT GLAZING ROOF SYSTEM WITH INTEGRATED PV CRYSTALLINE SOLAR CELLS, SEE DETAILS ON SHEET A-5 IMPACT GLAZING ROOF SYSTEM WITHOUT PV CELLS (ONLY AT LOCATIONS

THAT ARE HARDWIRED), CUSTOM CERAMIC FRIT PATTER APPLIED TO UNDERSIDE OF GLAZING, SEE DETAILS ON SHEET A-5 \langle 4 angle Cast concrete orthopedic seating. See sheet A-6 for typical details.

INTEGRATED LED LINEAR LIGHTING RECESSED INTO THE STRUCTURE

DOUBLE-FACED AD BOX (DIGITAL OR STATIC). IT IS PREFERRED THAT DIGITAL AD BOXES SHALL HAVE AN INTEGRATED PASSENGER INFORMATION SYSTEM AND SPEAKERS. SEE DETAILS / NOTES ON A-5 & GUIDELINES FOR TECHNOLOGY

SINGLE-FACED AD BOX (DIGITAL OR STATIC). IT IS PREFERRED THAT DIGITAL AD

BOXES SHALL HAVE AN INTEGRATED PASSENGER INFORMATION SYSTEM AND

SPEAKERS. SEE DETAILS / NOTES ON A-5 & GUIDELINES FOR TECHNOLOGY COMPONENTS. 6" WIDE REFLECTIVE TRAFFIC COATING PAINT OR DURABLE TRAFFIC TAPE;

(9) MIAMI BEACH CITY LOGO, REFLECTIVE CONCRETE SURFACE PAINT, WHITE

SERVICE MAP LOCATION IN ALUMINUM FRAMED ACCESSIBLE DISPLAY BOX, SURFACE MOUNTED.

(11) | STATION IDENTIFIER SIGN LOCATION DEPICTED ON GLAZING, EMBOSSED OR ALT

(13) SEE TYPICAL COLUMN CONNECTION DETAIL ON A-6.

(12) | MIAMI BEACH CITY LOGO LOCATION, EMBOSSED ON GLAZING

CCTV CAMERA INTEGRATED INTO DISPLAY OR AD-BOX HOUSING , LOCATED AT END OF SHELTER TO BE ABLE TO VIEW ON-COMING TRAFFIC, SEE GUIDELINES FOR TECHNOLOGY COMPONENTS.

CUSTOM, SEAMLESS INTEGRATED ALUMINUM GUTTER WITH OVERFLOW OPENINGS,. SLOPED TO FAR-SIDE COLUMN

OPTIONAL LEANING RAIL, IN PLACE OF CONCRETE SEATING, SEE DETAILS ON

DISPLAY HOUSING WITH REMOVABLE FRONT ACCESS PANEL. HOUSING BODY SHALL BE ALUMINUM, COLOR TO MATCH THE STRUCTURAL COMPONENTS. OPENINGS FOR AMENITIES SHALL BE CUSTOM MADE FOR TIGHT FITTING AND SEAMLESS INTEGRATION. SEE INCLUDED VALUE ENGINEERING DRAWINGS.

(18) OPENING IN CENTER BEAM FOR GUTTER.

OF THE AD-BOX OR SHELTER FRAMES.

⟨19⟩ | NOT USED

INTEGRAL DOWNSPOUT IN FAR SIDE COLUMN, DISCHARGE TO SIDE OF

POSSIBLE STRUCTURAL CONNECTION POINTS TO AD-BOX FRAME FOR SHELTER STABILITY. AESTHETIC REQUIREMENT FOR THESE CONNECTIONS TO BE INCONSPICUOUS, SO CONNECTION SIZING SHALL BE LESS THAN THE SIZE

NON-HARD WIRED (STANDARD) SHELTERS SHALL HAVE THE FUTURE ABILITY TO ADD A DIGITAL AD DISPLAY AND SECURITY CAMERA AS DESCRIBED

PININFARINA BUS SHELTERS

SUBMITTALS

DESIGN INTENT DRAWINGS 06.24.2020

REVISIONS:

PROJECT TEAM

PROFESSIONAL IN CHARGE

ADOLFO J. COTILLA, JR., AIA

D E S I G N E D B Y

CHECKEDBY

DESIGN CONSULTANT

D R A W N B Y

REGISTRATION-

NUMBER

APPROVED BY

DATE

8.23.2019

AR-0008011

PININFARINA / ACAI

NO. DESCRIPTION

1 BD COMMENTS

2 Revision 2

PHASE

CITY OF MIAMI BEACH

STANDARD / ENHANCED 20' x 6.5' -FLOOR PLAN, REFLECTED CEILING PLAN, ELEVATIONS

SHEET TITLE



architecture engineering roofing .consulting construction management

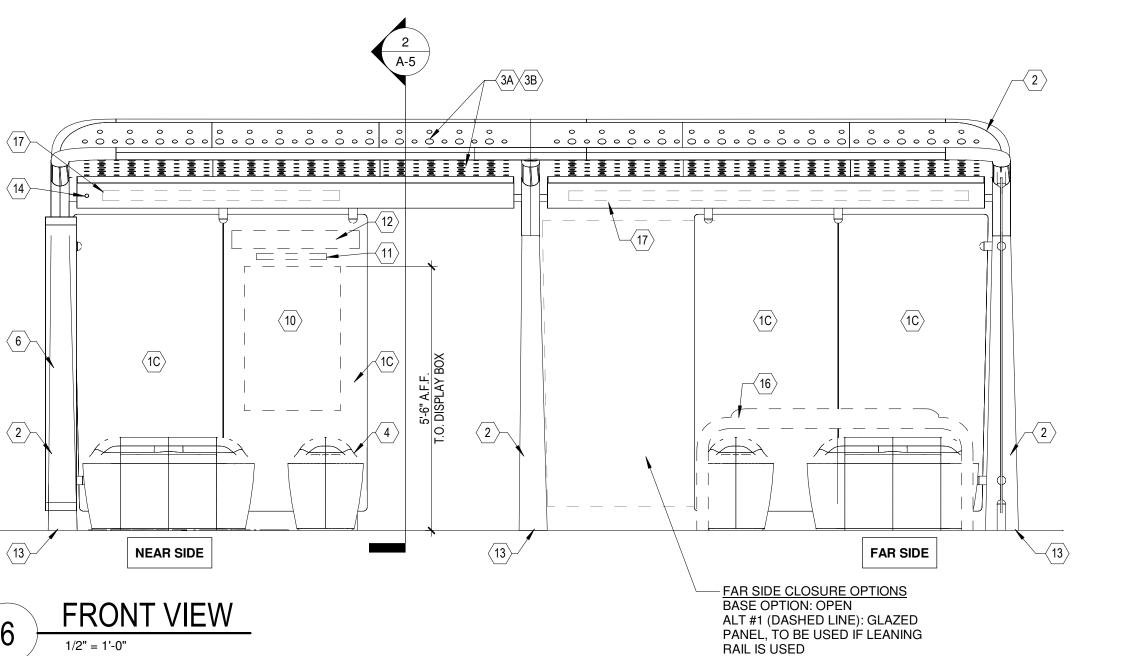
AAC001323 · EB0004379 · CGC010769 2937 W. Cypress Creek Rd., Suite 200 Fort Lauderdale, Florida 33309 Tel: 954.484.4000 · Fax: 954.484.5588 www.acaiarchitects.com ARCHITECT OF RECORD

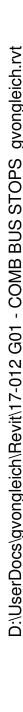
17-012 G01

PROJECT NUMBER

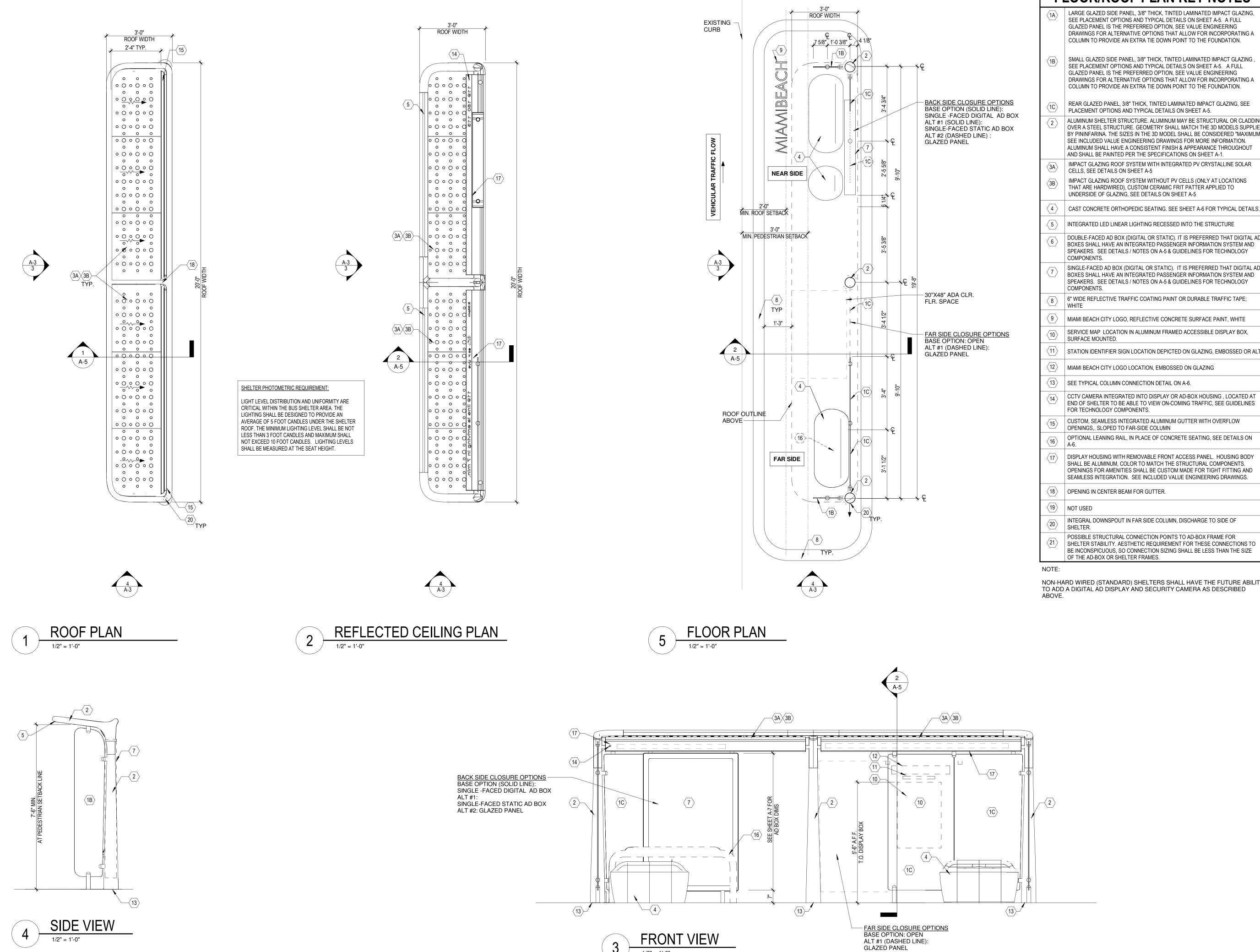
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FLOOR PLAN









FLOOR/ROOF PLAN KEY NOTES

LARGE GLAZED SIDE PANEL, 3/8" THICK, TINTED LAMINATED IMPACT GLAZING. SEE PLACEMENT OPTIONS AND TYPICAL DETAILS ON SHEET A-5. A FULL GLAZED PANEL IS THE PREFERRED OPTION, SEE VALUE ENGINEERING DRAWINGS FOR ALTERNATIVE OPTIONS THAT ALLOW FOR INCORPORATING A COLUMN TO PROVIDE AN EXTRA TIE DOWN POINT TO THE FOUNDATION.

SMALL GLAZED SIDE PANEL, 3/8" THICK, TINTED LAMINATED IMPACT GLAZING SEE PLACEMENT OPTIONS AND TYPICAL DETAILS ON SHEET A-5. A FULL GLAZED PANEL IS THE PREFERRED OPTION, SEE VALUE ENGINEERING DRAWINGS FOR ALTERNATIVE OPTIONS THAT ALLOW FOR INCORPORATING A

COLUMN TO PROVIDE AN EXTRA TIE DOWN POINT TO THE FOUNDATION. REAR GLAZED PANEL, 3/8" THICK, TINTED LAMINATED IMPACT GLAZING, SEE

ALUMINUM SHELTER STRUCTURE. ALUMINUM MAY BE STRUCTURAL OR CLADDIN OVER A STEEL STRUCTURE. GEOMETRY SHALL MATCH THE 3D MODELS SUPPLIE BY PININFARINA. THE SIZES IN THE 3D MODEL SHALL BE CONSIDERED "MAXIMUM SEE INCLUDED VALUE ENGINEERING DRAWINGS FOR MORE INFORMATION. ALUMINUM SHALL HAVE A CONSISTENT FINISH & APPEARANCE THROUGHOUT AND SHALL BE PAINTED PER THE SPECIFICATIONS ON SHEET A-1.

IMPACT GLAZING ROOF SYSTEM WITH INTEGRATED PV CRYSTALLINE SOLAR IMPACT GLAZING ROOF SYSTEM WITHOUT PV CELLS (ONLY AT LOCATIONS

UNDERSIDE OF GLAZING, SEE DETAILS ON SHEET A-5

INTEGRATED LED LINEAR LIGHTING RECESSED INTO THE STRUCTURE

DOUBLE-FACED AD BOX (DIGITAL OR STATIC). IT IS PREFERRED THAT DIGITAL AD BOXES SHALL HAVE AN INTEGRATED PASSENGER INFORMATION SYSTEM AND SPEAKERS. SEE DETAILS / NOTES ON A-5 & GUIDELINES FOR TECHNOLOGY

8 | 6" WIDE REFLECTIVE TRAFFIC COATING PAINT OR DURABLE TRAFFIC TAPE;

(9) MIAMI BEACH CITY LOGO, REFLECTIVE CONCRETE SURFACE PAINT, WHITE SERVICE MAP LOCATION IN ALUMINUM FRAMED ACCESSIBLE DISPLAY BOX,

(11) | STATION IDENTIFIER SIGN LOCATION DEPICTED ON GLAZING, EMBOSSED OR AL

(12) | MIAMI BEACH CITY LOGO LOCATION, EMBOSSED ON GLAZING

CCTV CAMERA INTEGRATED INTO DISPLAY OR AD-BOX HOUSING , LOCATED AT END OF SHELTER TO BE ABLE TO VIEW ON-COMING TRAFFIC, SEE GUIDELINES

CUSTOM, SEAMLESS INTEGRATED ALUMINUM GUTTER WITH OVERFLOW

OPTIONAL LEANING RAIL, IN PLACE OF CONCRETE SEATING, SEE DETAILS ON

17 DISPLAY HOUSING WITH REMOVABLE FRONT ACCESS PANEL. HOUSING BODY SHALL BE ALUMINUM. COLOR TO MATCH THE STRUCTURAL COMPONENTS. OPENINGS FOR AMENITIES SHALL BE CUSTOM MADE FOR TIGHT FITTING AND

INTEGRAL DOWNSPOUT IN FAR SIDE COLUMN, DISCHARGE TO SIDE OF

POSSIBLE STRUCTURAL CONNECTION POINTS TO AD-BOX FRAME FOR (21) | SHELTER STABILITY. AESTHETIC REQUIREMENT FOR THESE CONNECTIONS TO BE INCONSPICUOUS, SO CONNECTION SIZING SHALL BE LESS THAN THE SIZE

NON-HARD WIRED (STANDARD) SHELTERS SHALL HAVE THE FUTURE ABILITY TO ADD A DIGITAL AD DISPLAY AND SECURITY CAMERA AS DESCRIBED

PROJECT TEAM PROFESSIONAL IN CHARGE ADOLFO J. COTILLA, JR., AIA REGISTRATION-AR-0008011 NUMBER APPROVED BY D E S I G N E D B Y PININFARINA / ACAI

SUBMITTALS

DESIGN INTENT DRAWINGS 06.24.2020

REVISIONS:

DATE

8.23.2019

NO. DESCRIPTION

1 BD COMMENTS

2 Revision 2

PHASE

D R A W N B Y CHECKEDBY

D E S I G N C O N S U L T A N T

PININFARINA BUS SHELTERS

CITY OF MIAMI BEACH

STANDARD / ENHANCED 20' x 3' -FLOOR PLAN, REFLECTED CEILING PLAN, ELEVATIONS

SHEET TITLE



architecture engineering roofing .consulting construction management

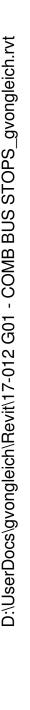
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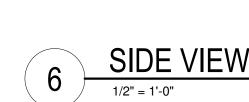
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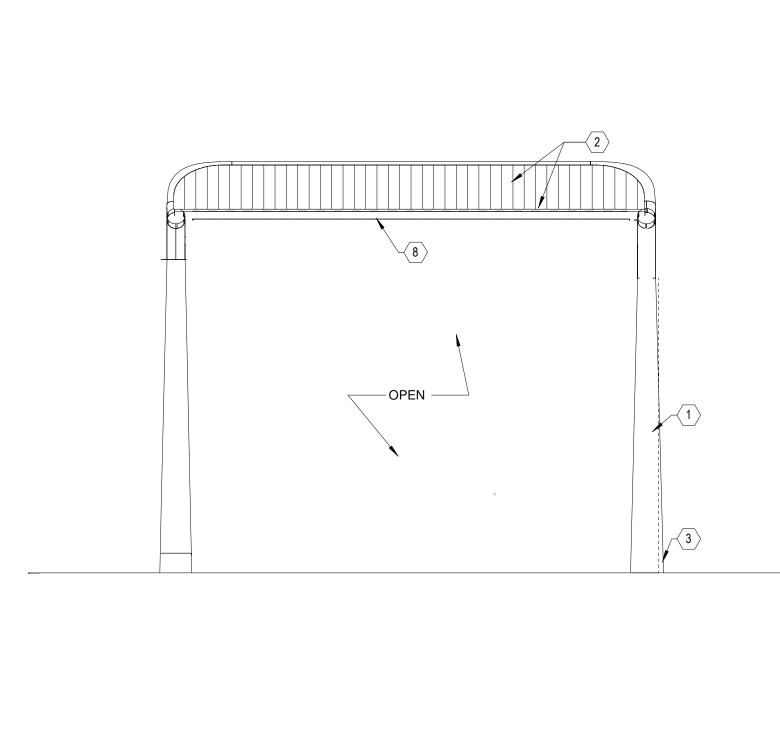




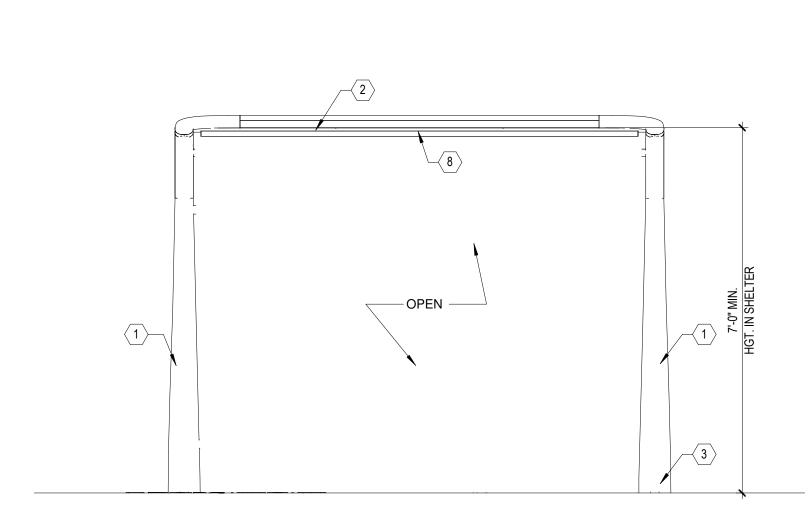


SIDE VIEW

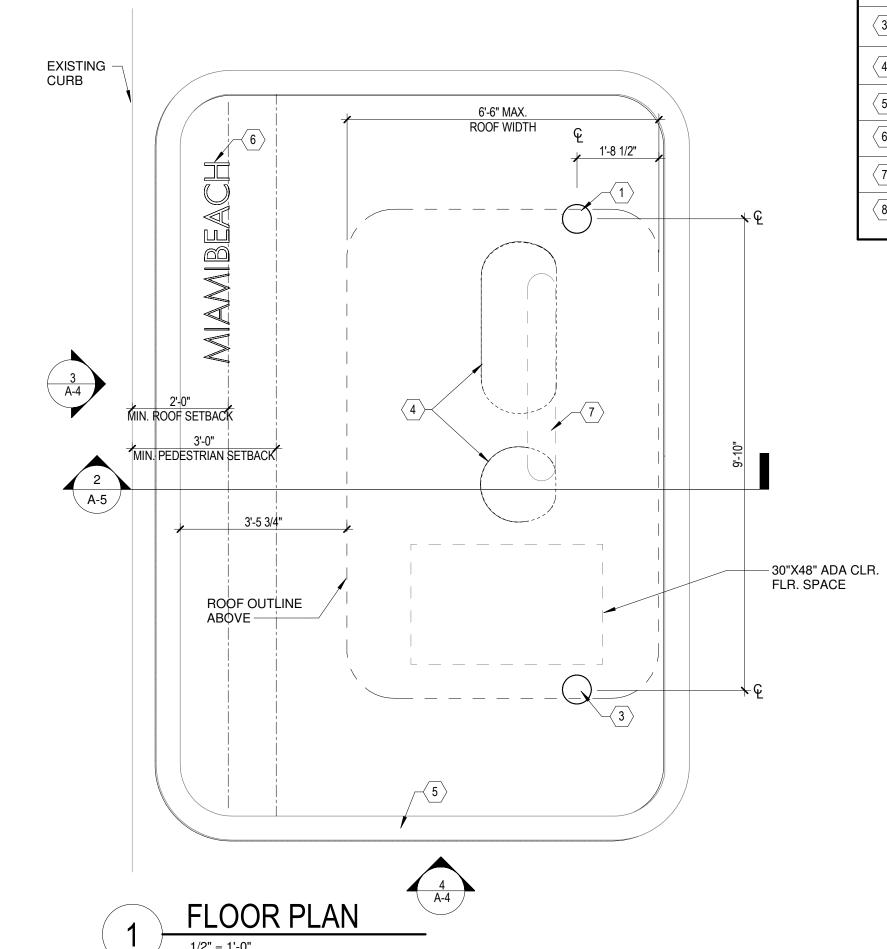
1/2" = 1'-0"

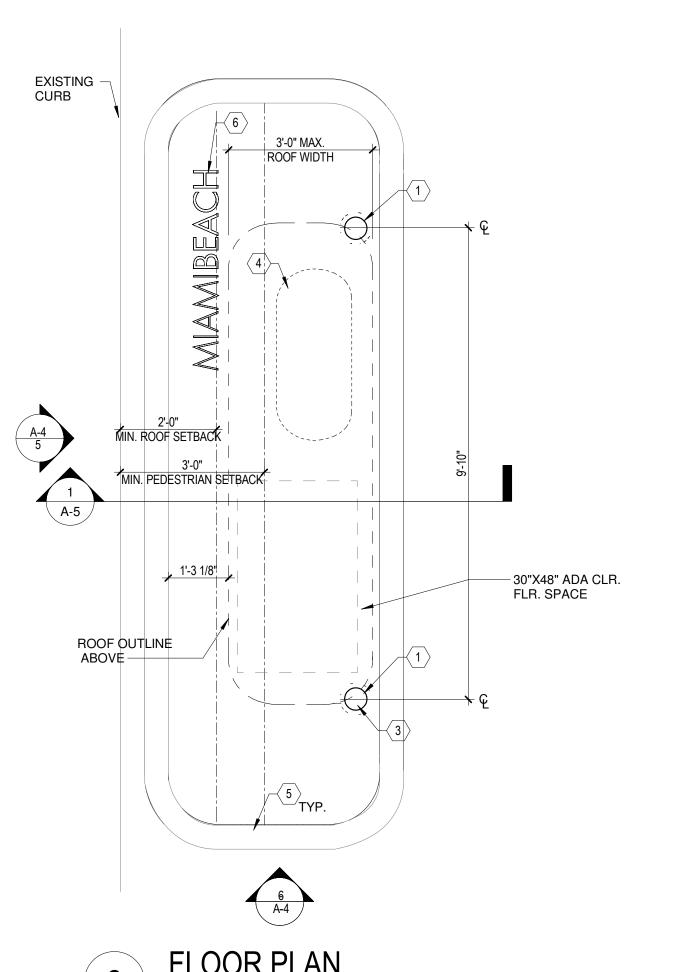












FLOOR/ROOF PLAN KEY NOTES

- ALUMINUM SHELTER STRUCTURE. ALUMINUM MAY BE STRUCTURAL OR CLADDING OVER A STEEL STRUCTURE. GEOMETRY SHALL MATCH THE 3D MODELS SUPPLIED BY PININFARINA. THE SIZES IN THE 3D MODEL SHALL BE CONSIDERED "MAXIMUM". SEE INCLUDED VALUE ENGINEERING DRAWINGS FOR MORE INFORMATION. ALUMINUM SHALL HAVE A CONSISTENT FINISH & APPEARANCE THROUGHOUT AND SHALL BE PAINTED PER THE SPECIFICATIONS ON SHEET A-1.
- 2 BREAKAWAY FABRIC ROOFING MATERIAL PER SPECIFICATION.
- INTEGRAL DOWNSPOUT IN FAR SIDE COLUMN, DISCHARGE TO SIDE OF
 - 4 OPTIONAL CAST CONCRETE ORTHOPEDIC SEATING. SEE DETAILS ON A-6.
- 6" WIDE REFLECTIVE TRAFFIC COATING PAINT OR DURABLE TRAFFIC TAPE;
- 6 MIAMI BEACH CITY LOGO, REFLECTIVE CONCRETE SURFACE PAINT, WHITE
- OPTIONAL LEANING RAIL, IN PLACE OF CONCRETE SEATING, SEE DETAILS ON
- 8 CUSTOM, SEAMLESS INTEGRATED ALUMINUM GUTTER WITH OVERFLOW OPENINGS,. SLOPED TO FAR-SIDE COLUMN.

PROJECT TEAM PROFESSIONAL IN CHARGE

S U B M I T T A L S : PHASE DATE DESIGN INTENT DRAWINGS 06.24.2020

REVISIONS:

NO. DESCRIPTION

ADOLFO J. COTILLA, JR., AIA

..... REGISTRATION NUMBER AR-0008011

APPROVED BY D E S I G N E D B Y

D R A W N B Y

CHECKEDBY

.....

PININFARINA / ACAI

D E S I G N C O N S U L T A N T

PININFARINA BUS SHELTERS

CITY OF MIAMI BEACH

TEMPORARY 10' x 6.5' & 10' x 3' SHELTER

SHEET TITLE



roofing consulting construction management

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FLOOR PLAN
1/2" = 1'-0"



AD-BOX DESIGN:

1. LOCATION WITHIN THE SHELTER SHALL FOLLOW THESE DRAWINGS.

2. AD-BOX SIZE SHALL ALLOW THE AD-BOXES TO FIT IN THE LOCATIONS DESIGNATED

3. OVERALL SIZE DEPICTED IN THESE DRAWINGS ARE 4'-4" WIDE X 6'-4" HIGH. VARIATIONS OF THESE DIMENSIONS OVER 6"(INCHES) SHALL BE REVIEWED BY THE CITY, ACAI, AND PININFARINA TO CONFIRM THE AESTHETIC CHARACTER OF THE SHELTER IS STILL BEING MAINTAINED.

RAINWATER DISCHARGE NOTE:

THE DETAILS HERE-IN SHOW AN INTEGRATED GUTTER THAT CONNECTS TO A CONCEALED DOWNSPOUT WITH A DISCHARGE OUT THE SIDE OF THE SHELTER. THE FABRICATOR IS OPEN TO PROVIDE ALTERNATIVE DETAILS AS LONG AS IT ACHIEVES THE FOLLOWING:

- 1. RAINWATER MUST NOT DRAIN DIRECTLY FROM THE ROOF TO THE GROUND SURFACE BELOW (SHEET DRAINING), USE OF A GUTTER AND DOWNSPOUT WILL BE REQUIRED.
- 2. THE GUTTER AND ASSOCIATED DOWNSPOUT MUST BE CAREFULLY INTEGRATED INTO THE SHELTER DESIGN TO BE CONCEALED. NOT "STUCK-ON" OR ADDED" ELEMENTS TO THE SHELTER STRUCTURE WILL BE
- 3. THE DISCHARGE FROM THE DOWNSPOUT MUST BE DISCHARGED TO THE SIDE OF THE SHELTER. DISCHARGES TO THE FRONT, BACK, OR WITHIN THE SHELTER WILL NOT BE ALLOWED.

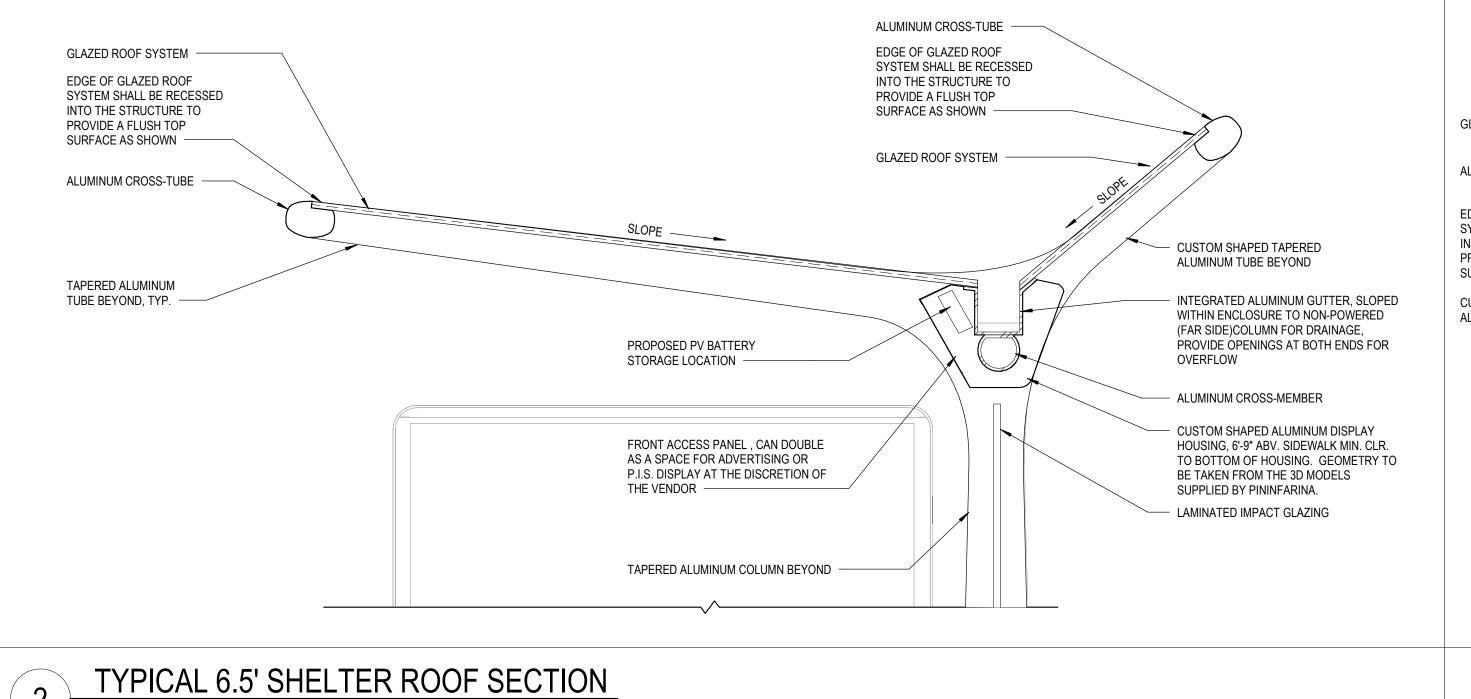
SUCH ALTERNATIVES SHALL BE REVIEWED AND APPROVED BY THE CITY, ACAI, AND PININFARINA.

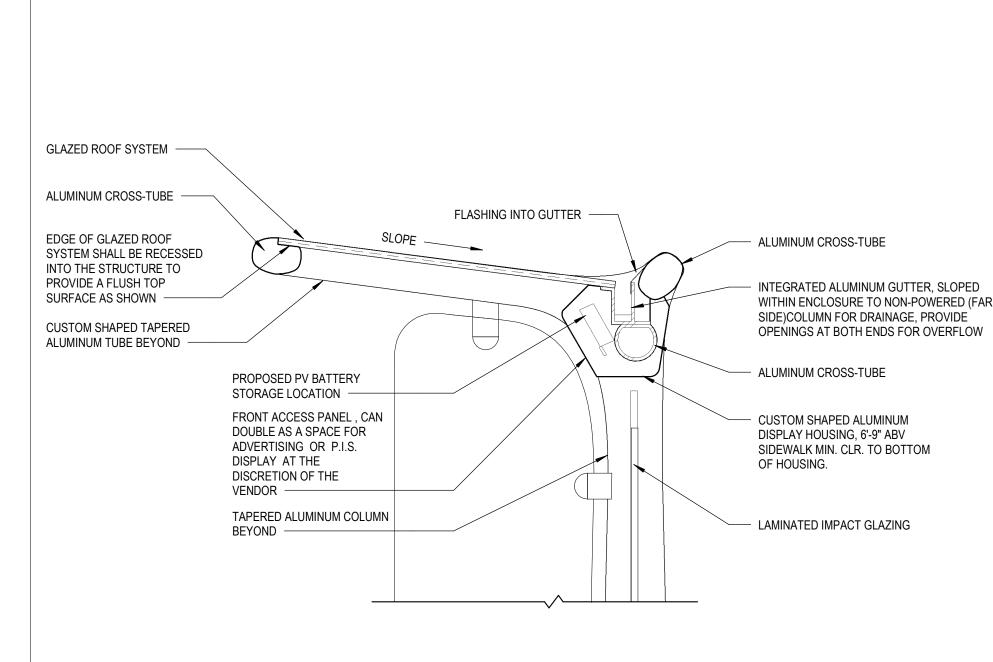
VERTICAL GLAZING:

THE DETAILS HERE-IN SHOW THE DESIGN INTENT FOR THE VERTICAL GLAZING LAYOUT, SIZING, AND CONNECTIONS:

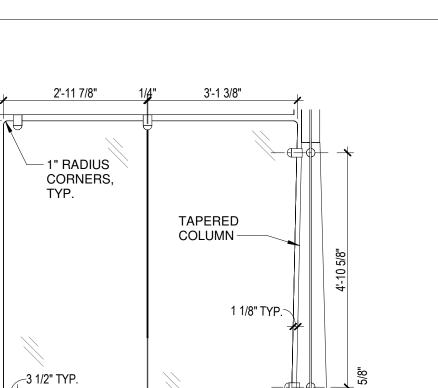
- 1. THE DIMENSIONS LISTED HERE SHALL ONLY BE INTERPRETTED AS A GUIDE. SPECIFIC MANUFACTURES AND / OR ENGINEERING MAY HAVE DIFFERENT
- 2. STAND-OFF TYPE CONNECTIONS AS SHOWN ARE DESIRED. THE FABRICATOR MAY PRESENT ALTERNATIVES TO BE REVIEWED AND APPROVED.
- 3. IF TAPERED COLUMNS ARE USED, THE GLAZING EDGE ABUTTING THE COLUMNS MUST BE ANGLED TO MATCH THE TAPER(AS DEPICTED BELOW). THE SAME APPLIES TO THE ANGLED ROOF BEAM.

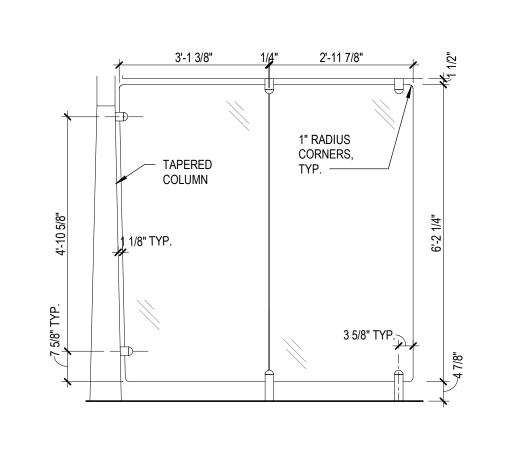
ANY DEVIATION FROM THESE DRAWINGS SHALL BE REVIEWED AND APPROVED BY THE CITY, ACAI, AND PININFARINA.

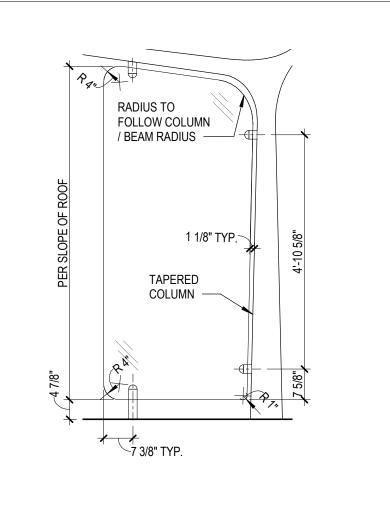


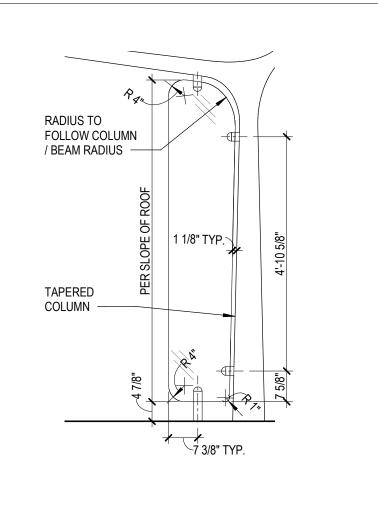


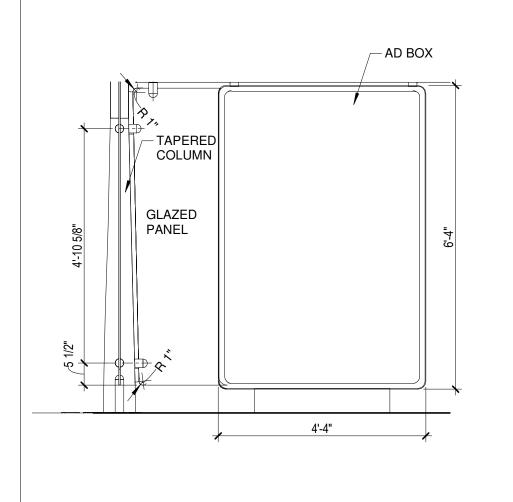
TYPICAL 3' SHELTER ROOF SECTION

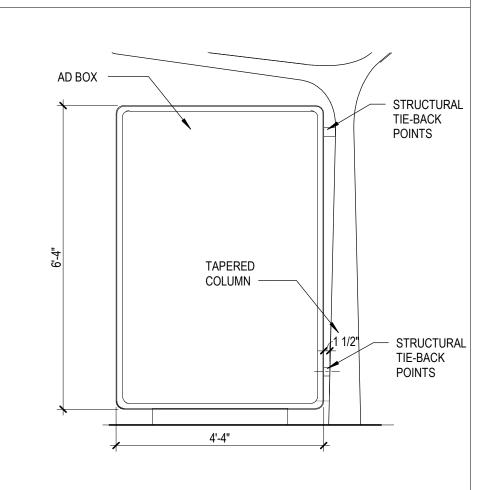




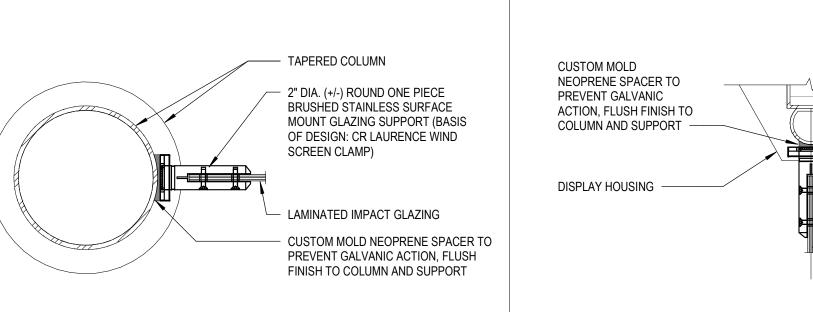


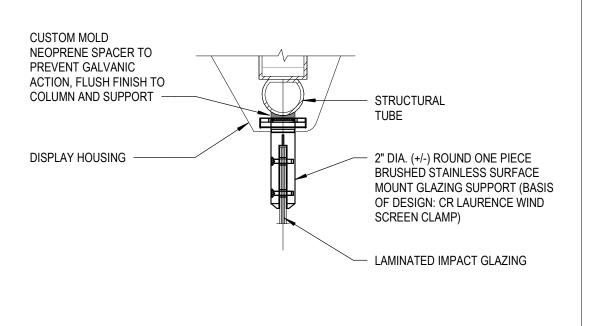




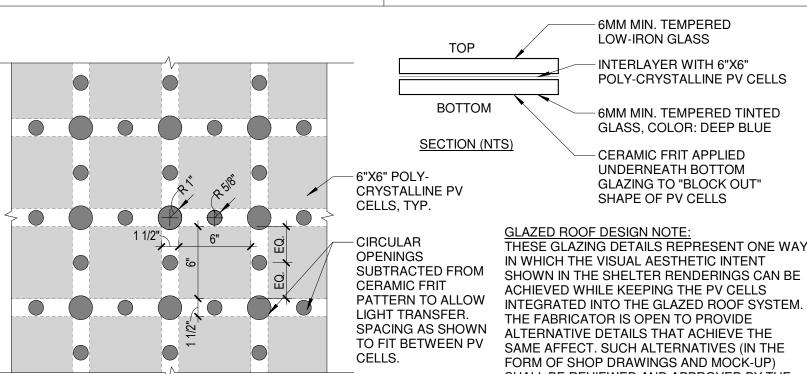


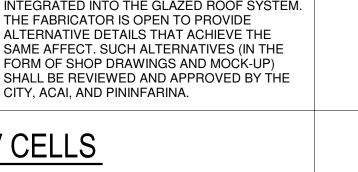


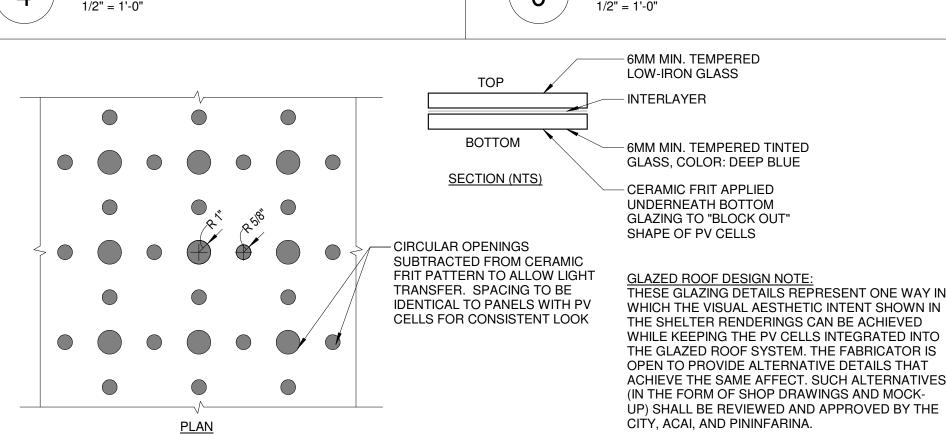




NEAR SIDE REAR GLAZING









P R O J E C T T E A M PROFESSIONAL IN CHARGE ADOLFO J. COTILLA, JR., AIA -----REGISTRATION-N U M B E R AR-0008011

SUBMITTALS

DESIGN INTENT DRAWINGS 06.24.2020

REVISIONS:

NO. DESCRIPTION

APPROVED BY D E S I G N E D B Y PININFARINA / ACAI

D R A W N B Y CHECKEDBY

DESIGN CONSULTANT

PININFARINA BUS SHELTERS CITY OF MIAMI BEACH

DETAILS

SHEET TITLE

architecture engineering

roofing .consulting construction management AAC001323 · EB0004379 · CGC010769 2937 W. Cypress Creek Rd., Suite 200 Fort Lauderdale, Florida 33309

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PROJECT NUMBER

A-5

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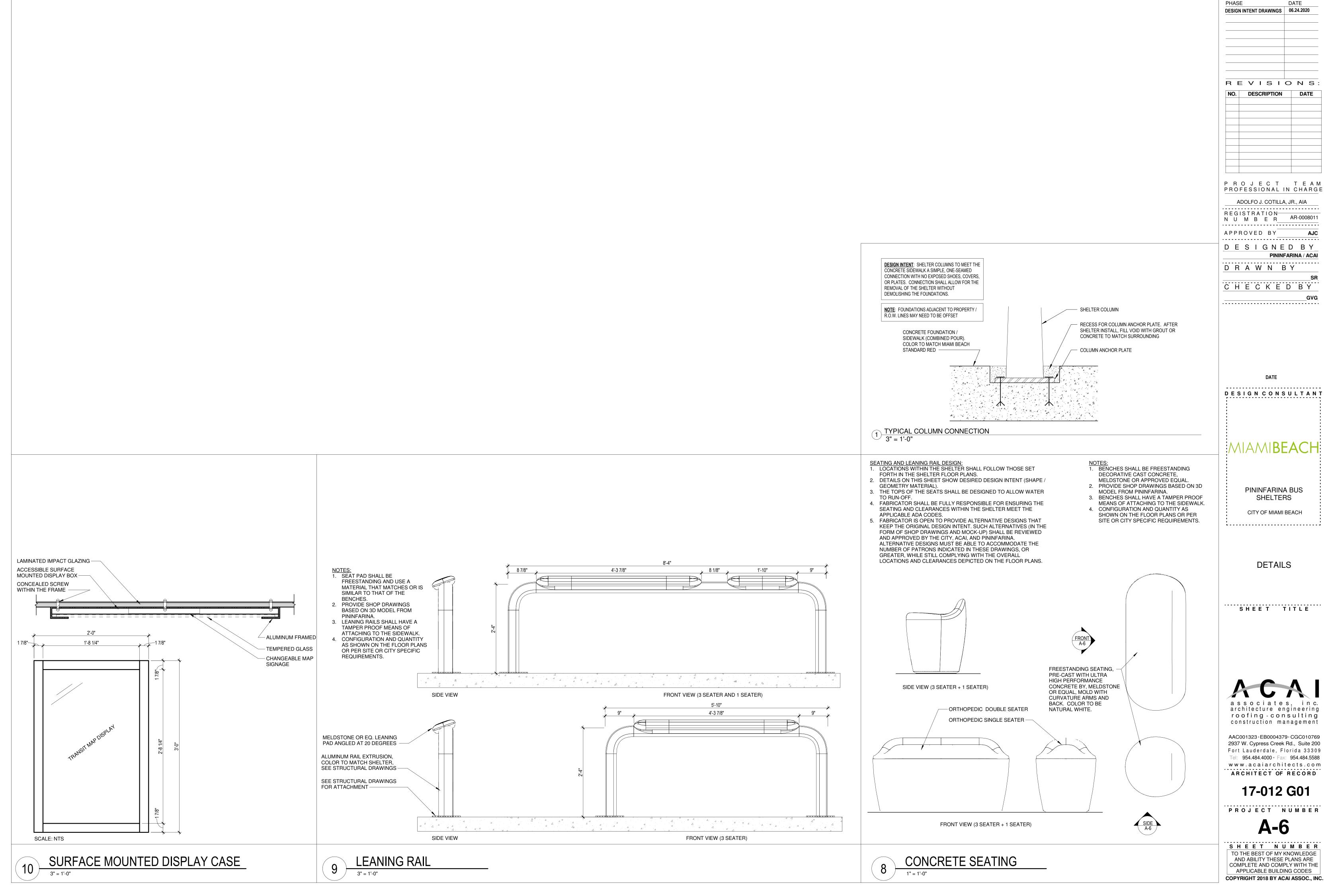
GLASS TO COLUMN

GLASS TO DISPLAY HOUSING
1 1/2" = 1'-0"

GLAZED ROOF DETAILS - WITH PV CELLS

<u>PLAN</u>

FAR SIDE REAR AD BOX LARGE SIDE GLAZING SMALL SIDE GLAZING SIDE AD BOX



REVISIONS: NO. DESCRIPTION P R O J E C T T E A M PROFESSIONAL IN CHARGE N U M B E R AR-0008011

S U B M I T T A L S:

ADOLFO J. COTILLA, JR., AIA REGISTRATION-

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D E S I G N C O N S U L T A N T

PININFARINA BUS

CITY OF MIAMI BEACH

DETAILS

SHEET TITLE

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MIAMIBEACH

City of Miami Beach

GUIDELINES FOR TECHNOLOGY COMPONENTS

for

the Bus Shelters project in the City of Miami Beach

July 2020

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1 General

The City of Miami Beach (the City) intends to issue an Invitation to Negotiate (ITN) to solicit competitive bids and proposals from contractors (the Successful Proposer) for the construction, operation, and maintenance of the City's Bus Shelters project (the Project).

From a technology perspective, at the selected bus stops, the Project will incorporate Closed Circuit Television (CCTV) cameras and digital displays capable of supporting: passenger information systems, estimated time of arrival messaging/ notifications, digital advertisements, and audio messaging with speakers in accordance with the ADA (American with Disabilities Act) Standards at bus shelter locations. The Successful Proposer is responsible for recommending the locations of digital displays at bus shelters.

The Successful Proposer shall establish and utilize a redundant cellular communications network to support all field devices and equipment installed for the bus shelters. The Successful Proposer is responsible to establish, operate and maintain the systems and components described in this document at an uptime availability of 95%. The maximum response time to assess and diagnosis the cause of a failure to any systems and components is 6 hours. The maximum response time to restore functionality to any system or component that has failed is 24 hours, this includes failures that require device or component replacement.

1.1 Description of Work

This document provides a set of Guidelines for Technology Components for the construction, operation, and maintenance of the bus shelters that incorporate the technology components as part of the ITN.

The proposed components include the construction, operations, and maintenance of the following:

Systems

- Digital Displays
- Field cabinets
- Content Management Software (also compatible with existing bus components)
- Closed Circuit Television (CCTV) Cameras (Furnish and Install only)

Components, devices and materials provided by the Successful Proposer must be operated and maintained by the Successful Proposer to allow for 95% uptime availability of these devices. The 95% uptime availability does not apply to the CCTV Camera, as this device will be operated and maintained by the City.

1.2 Additional General Requirements

Unless otherwise noted herein, the Successful Proposer shall comply with all applicable requirements of Florida Department of Transportation's (FDOT) Standard Specifications for Road and Bridge Construction latest edition (here and after known as FDOT Standard Specifications).

The Successful Proposer shall become familiar with the project design documents and utilize the Firm's expertise in the field of communications systems and modern bus shelter components to incorporate innovation in its project delivery while maintaining all requirements of the ITN.

The Successful Proposer is responsible for delivering all systems, subsystems, devices, and ancillary components required to provide a complete project that fulfills the requirement of its contract. The Successful Proposer shall determine the exact location of these devices and components based on the

proposed design elements. Any specific locations and provided quantities of the devices to meet the requirements must also meet the manufacturers' specifications for installation and functionality of all project devices and ancillary components. The City and the Successful Proposer will mutually agree to the quantities and locations of shelter types and the associated systems, devices, and components.

All proposed project components and devices must be 100% compatible with existing City of Miami Beach Trolley and Miami-Dade County Transit systems and their operational requirements. Validation for compatibility of project devices and components shall be performed by the Successful Proposer. When installing devices and infrastructure, including but not limited to Digital displays, cabinets, poles, conduit, etc., the devices, all supporting infrastructure, and the routing and placement thereof shall be context sensitive in design with regard to the design, surrounding properties and urban form.

All subsystem devices and ancillary components shall possess the latest version of hardware and software (at the time of installation) and provide the City and/or Miami-Dade County Transit software updates at no cost when any software updates become available throughout the duration of the contract. Neither untried nor prototype units will be approved or accepted by the City. The Successful Proposer shall not use reconditioned equipment. All subsystem devices and ancillary components shall be new Commercial Off-The-Shelf (COTS) products in current production.

The Successful Proposer shall submit a list of all selected technologies/products, selection alternatives, reasons for selection, anticipated device locations, and mounting types to the City for review and approval. Approvals will be necessary for an initial typical section of each bus shelter type. Additional approval will be required at the discretion of the City.

The Successful Proposer shall install the subsystem devices and ancillary components that are detailed in the City's approved final design plans and specifications including, but not limited to, all required structures.

The Successful Proposer shall not install subsystem devices and ancillary components until the City has reviewed and approved the final device or component selection and associated specifications.

The Successful Proposer is responsible for ensuring that the bus shelters are constructed to be compliant with all ADA Standards.

The Successful Proposer shall ensure that all devices, systems, and components of the project must be manufactured, tested, certified, and registered through the Nationally Recognized Testing Laboratory (NRTL) Program.

The Successful Proposer shall provide the City with access of up to two (2) users of the systems, components, and software used to fulfill the requirements of this project.

All devices and components installed in the field must have an Ingress Protection (IP) rating of 66.

1.3 Document Organization

This document summarizes the requirements unique to each project component in a section specifically devoted to the respective field device. For each project component, the following areas are discussed:

- Description
- Design Requirements
- Project Specific Requirements

2 CCTV Camera System

2.1 Description

CCTV cameras are desirable at each enhanced bus shelter type (locations of high ridership). Mainly used for security, these cameras provide City police and system operators with live streams of bus stop activity and traffic flow. Operations staff use these devices to monitor conditions for the proper coordination of resources. Proactive use of CCTV cameras will assist with enforcement productivity, dispatch response times, and performance measures by providing early detection, event verification, increased visual coverage and most importantly, rider safety.

2.2 Design Requirements

The new CCTV camera shall conform to the current specifications for video equipment and corresponding Design Standards associated with the project design. The Successful Proposer shall furnish, construct, install, and integrate the Axis® P3245-LVE CCTV Camera system, or other vendors and/or models approved by the City, and Subsystem to provide the Miami Beach Police Department and transit operator with complete video coverage of the bus shelter locations. The installed system shall have the functionality to view the bus shelter and the provide coverage of the surrounding area through digital pan, tilt, and zoom (PTZ), position presets, and provide Wide-Dynamic Range (WDR) capabilities. The CCTV Camera Subsystems shall be compatible with the existing VMS (Milestone Video Management Software) in use by the City's Police Department.

The CCTV Camera must be installed including any necessary wiring between the camera and camera router/router cabinet by the Successful Proposer.

The CCTV camera assembly shall be consistent with the design plans developed for the project. The Successful Proposer shall furnish, install, integrate, and test CCTV cameras at locations as required to meet or exceed these Guidelines for Technology Components.

The Successful Proposer shall construct and test the CCTV camera system that consists of cameras providing high-quality streaming video coverage. The Successful Proposer shall ensure the CCTV camera views provide the Police Department with the ability to determine the nature of activity taking place at the bus stop, view bus arrivals and departures, and view roadway conditions in proximity to the bus shelter. Successful Proposer shall perform cleaning of camera lenses when deemed necessary by the City, as well as, during any maintenance activities. Other aspects of the maintenance of bus shelter CCTV Cameras will be performed by the City.

The Successful Proposer will be responsible for any camera replacement that is required for full functionality of the camera and its components. Replacement of the camera, mounting equipment, and ancillary equipment is required to be assessed during any preventative, scheduled and emergency maintenance activities or as deemed necessary by the City. The Successful Proposer is required to replace any camera that has been subject to damage from vandalism, natural disasters, and 3rd party damage. It is the responsibility of the Successful Proposer to recover funds for any third-party damage.

2.3 Project Specific Requirements

2.3.1 Camera Type

The Successful Proposer shall use the Axis® P3245-LVE CCTV Camera system, and/or models approved by the City. The CCTV cameras shall have a built-in memory card slot that enables local storage of high-definition video, at least 1080 resolution with progressive scan (1080p). The Successful Proposer is responsible for providing a memory card, installed at the time of the camera installation, for all cameras. The memory card must be a minimum of 128 gigabytes and be rated for high endurance and outdoor use.

2.3.2 CCTV Camera Wiring and Housing Type

CCTV camera housings shall be of the dome type and shall have a clear dome. The CCTV must be able to operate in outdoor conditions with a temperature range of -40° F to 122° F, humidity range of 10 to 100% relative humidity.

The camera shall be powered via the Ethernet (Power-Over-Ethernet) power source or may be powered directly via 12-24VDC or 24VAC.

2.3.4 Camera Communications

Router for the camera: The City will purchase install, operate and maintain the router required to communicate with the CCTV camera. The Successful Proposer for the bus shelters shall provide a separate cabinet for camera router, equipped with the necessary power requirements to operate it and any necessary wiring from the camera to the router. The Successful Proposer shall not have access to this cabinet once the camera router is installed. The Successful Proposer must establish a protocol for managing access to the camera communications equipment when necessary for the Successful Proposer to fulfill the requirements of this contract.

3 Digital Displays

3.1 Description

The Successful Proposer shall furnish, construct, install, integrate, operate and maintain advertisement displays, both static and digital. The Digital Displays will consist of outdoor LCD display. The Successful Proposer is required to ensure the proposed digital display is capable of fulfilling the design requirements of the bus shelter. Any proposed digital displays are subject to approval by the City. Other bus shelters types, at selected locations mutually agreed between the Successful Proposer and the City may also have digital displays added to them at a later date. The digital displays shall be compatible with the proposed content management software platform. The Successful Proposer is responsible for recommending the locations of digital displays at bus shelters. Digital display locations will be subject to final approval from the City.

The Digital Displays must be equipped with a speaker that is hardened and suitable for outdoor, commercial applications and capable of interfacing with the Content Management Software for text-to-speech functionality associated with ADA (Americans with Disabilities Act) requirements for public information infrastructure.

Any double face Digital Display must be capable of displaying a digital image or video on one side and a static display illuminated for night applications on the opposite side within the same unit. All installed devices shall be contextual to the surrounding properties and urban form.

The digital display will provide passenger information/ estimated time of arrival messaging and notifications for both Miami-Dade Transit buses and City of Miami Beach Trolleys. Notifications should provide messages regarding the next available route/bus, location destination, and estimated time of arrival based on bus/trolley location. The digital display should provide current time & date, bus stop location, Estimated Time of Arrival (ETA) of next bus/trolley, bus/trolley route number, bus stop name/number and routes serviced at the stop location. Additional information being displayed on the sign shall be made available for display at the discretion of the City. The Successful Proposer shall furnish, install, integrate, test, operate, and maintain displays, providing proper and exact information, at each bus stop location. The Digital Display must be compliant with all ADA Standards. Chapter 703, of the ADA Standards defines requirement related to signs and Chapter 8 (Section 810) defines requirement related to Transportation Facilities.

3.2 Design Requirements

The Successful Proposer shall furnish, install, integrate, test, operate, and maintain Digital Displays as required to meet or exceed these Guidelines for Technology Components. The Digital Display shall conform to the design documentation and latest edition of Specifications available. The Successful Proposer shall furnish and install the displays at bus stop locations as required by the design to accommodate the Guidelines for Technology Components set forth herein. The Successful Proposer is responsible for recommending the locations of digital displays at bus shelters.

The Successful Proposer shall adhere to the requirements herein and in other contract documents for the procurement, installation, integration, operation, maintenance, training, documentation, and warranty requirements for full color, LCD assembly, including requirements of the Miami- Dade County Code for size, placement and installation of digital and interactive displays (defined as Kiosk Signs in the Miami-Dade County Code). Each assembly shall include but not be limited to the sign case with all associated internal components, display controller, communications devices, controller cabinet, cabling, connectors, conduits, electrical service, surge suppression, and hardware and software associated with a complete installation.

All new and replacement signs shall be integrated into the Successful Proposer-provided content management software and have the ability to display messages remotely generated from the end user's computer. The sign shall comply with the additional requirements and specifications and the following project specific requirements.

3.3 Project Specific Requirements

3.3.1 Digital Displays Type

The Digital Displays furnished and installed shall be full color. The Successful Proposer shall be responsible for determining the appropriate Digital Displays type to be furnished and installed at each location. The Successful Proposer shall only use one manufacturer and model of Digital Displays, models may vary in size and functionality per location.

3.3.2 Physical Conditions

Field equipment shall be hardened for outdoor conditions and require minimal maintenance. All audio equipment shall have a minimum operating temperature range of -4 degrees F to 158 degrees F and humidity range of 0 percent to 95 percent. Volume levels of the speaker and audible messages must be adjustable remotely from the Content Management Software.

4 Additional Device Cabinet

4.1 Description

The cabinet required to separately house the CCTV camera router must have dimensions no greater than 12"x12"X8" and shall be NEMA 4 rated. The location of the CCTV camera router and cabinet are subject to approval from the City. Additional devices and components that are not considered in the design or are being used for the CCTV camera router must be housed in a separate cabinet with the location, size, style and mounting is subject to approval from the City.

Turnover to the City of this cabinet will take place after an inspection by the City is requested from the Successful Proposer and approved by City staff or their delegate.

5 Content Management Software

5.1 Description

The Successful Proposer shall furnish, install, integrate, test, operate, and maintain the Content Management software for the Digital Displays, Passenger Information Display, Outdoor Speakers, and ancillary equipment.

The software must be equipped with an enterprise-level Content Management System (CMS) software solution. In lieu of utilizing separate Successful Proposer-provided management/ configuration software packages, the Successful Proposer must utilize an "umbrella" software package solution capable of managing all devices via one GUI (Graphical User Interface) platform. The Successful Proposer shall furnish and install devices compatible with the software being used as defined in these Guidelines for Technology Components.

The Successful Proposer shall integrate and test new digital display signs, and communication devices with the equipment's respective vendor-provided software. The Successful Proposer shall furnish, install, and integrate all the equipment including the software licenses necessary for the operation of the devices. This will be achieved by using the respective Successful Proposer-provided software package. The Successful Proposer will operate and maintain the software throughout the duration of the project. The Successful Proposer is required to provide the necessary licenses for the software to the City, for the City to have general access to the software.

5.2 Project Specific Requirements

5.2.1 Servers

The Successful Proposer shall furnish, install, integrate, test, operate, and maintain any server(s) required to operate the bus shelter devices managed or operated through the Content Management Software provided under this project.

5.2.2 Device Protocol Compliance

For the devices being deployed that are to be communicated with, monitored and/or controlled via software the Successful Proposer shall ensure that the protocol(s) used by these devices is compliant with the governing equipment stated in the specifications for that device. The Successful Proposer shall coordinate with the City of Miami Beach and Miami-Dade County Transit, or its designated representative, as necessary.

5.2.3 Device Worksheets

The Successful Proposer shall coordinate with City of Miami Beach and/or Miami-Dade County Transit, or its designated representative, to collect and provide the required information about each device that is to be interconnected with; communicated through; communicated with; monitored and/or controlled via the device and content management/configuration software. The exact information to be provided for the devices involved shall be obtained from City of Miami Beach and/or Miami-Dade County Transit or their designated representative. The City of Miami Beach and/or Miami-Dade County Transit shall approve the format and naming conventions used to ensure compatibility with existing devices in the City and/or County device database.

5.2.4 Device Database Tables and Configuration Files

The Successful Proposer shall populate all device database tables and configuration files using the data collected in the device worksheets.

5.2.5 Create Device Map Links

The Successful Proposer shall create the device map link layer for the respective devices (i.e. Digital Displays). The Successful Proposer shall display all field devices on the map. The City and Miami-Dade County Transit shall approve the format and naming conventions used to ensure compatibility with existing devices in the City and County Transit's device GIS map link layer.

5.2.6 Device Software Training

The Successful Proposer shall coordinate with the City of Miami Beach and Miami-Dade County Transit to schedule the Device Software administrator and operator training. The Successful Proposer must present a minimum of five (5) dates/times for the City and County staff to select an available time for training. Two (2) weeks' notice must be given to the City and County staff of when the training will take place. The Successful Proposer is responsible for coordinating the location and content of the training. At a minimum the content of the training must incorporate modules for the following aspects of the project:

- Digital Displays
- Content Management Software (also compatible with existing bus components)

6 Value Added Components:

This section provides a summary of the discretionary requirements that have not yet been approved by the City. These components are intended to bring additional features and functions to the project. The value-added components being considered for this project include:

- Digital Displays for ETA Only
- Public access Wi-Fi
- · Digital Displays with touchscreen capability

6.1 Digital Displays for ETA Only

For bus stop locations that do not require the technology components described in these guidelines the City will consider Digital Displays for ETA information only. This component will be considered for use at locations not subject to the other components described in these Guidelines for Technology Components. These components will be required to provide information related to Miami-Dade County transit buses and the City of Miami Beach trolleys route/ route number and ETA. This component may be a standalone feature at specific bus stop locations and using technology solution mutually agreed between the City and the Successful Proposer. Solar or battery power may be used for this component only. The Digital Displays for ETA must be compliant with all ADA Standards. Chapter 703, of the ADA Standards defines requirement related to signs and Chapter 8 (Section 810) defines requirement related to Transportation Facilities.

6.2 Public Access Wi-Fi

These requirements are pending City approval. If approved, additional field communications devices shall be provided and be able to provide the public with unlimited, free Wi-Fi access while in proximity of the bus shelters requiring this equipment. The City requires the ability to turn this feature off from a remote location, at their discretion. The Successful Proposer shall be prepared to provide the Wi-Fi services throughout the duration of the project. These services may be requested by the City to be included on the project at any stage of the project. These services will be the sole responsibility of the Successful Proposer to deploy, integrate, operate and maintain.

6.3 Digital Displays with Touchscreen Capability

It is desirable for the digital displays to have interactive touchscreen capabilities. The use and inclusion of the touchscreen feature will be determined at the time of installation and will be at the discretion of the City, which may change throughout the duration of the project.

7 Retirement and Replacement

All technology components that the Successful Proposer is responsible for operating and maintaining shall be retired and replaced after ten (10) years of use. This includes the technology components and the ancillary equipment necessary to operate the device and/or system. The technology components that are replaced with new equipment will be subject to approval from the City.