

IECC 2012 EDITION

BUILDING LOCATION: HOUSTON, TEXAS, USA
CLIMATE ZONE (FIGURE C301.1): ZONE 2A

INTERIOR DESIGN CONDITIONS:
 THE INTERIOR DESIGN TEMPERATURES USED FOR HEATING AND COOLING LOAD CALCULATIONS SHALL BE A MAXIMUM OF 72 DEGREES FAHRENHEIT AND MINIMUM OF 75 DEGREES FAHRENHEIT FOR COOLING.

BUILDING ENVELOPE REQUIREMENTS (C402):
OPAQUE THERMAL ENVELOPE REQUIREMENTS (TABLE C402.2):

ROOFS	REQUIRED	AS DESIGNED
INSULATION ENTIRELY ABOVE DECK:	R-25ci	
METAL BUILDINGS (W/ R-5 THERMAL BLOCKS):	N/A	
ATTIC AND OTHER:	N/A	

WALLS, ABOVE GRADE	REQUIRED	AS DESIGNED
MASS:	R-5.7ci	
METAL BUILDING:	N/A	
METAL-FRAMED:	N/A	
WOOD-FRAMED AND OTHER:	N/A	

WALLS, BELOW GRADE	REQUIRED	AS DESIGNED
BELOW-GRADE WALL:	N/A	

FLOORS	REQUIRED	AS DESIGNED
MASS:	N/A	
JOIST/FRAMING:	N/A	

SLAB-ON-GRADE	REQUIRED	AS DESIGNED
UNHEATED SLABS:	N/A	
HEATED SLABS:	N/A	

OPAQUE DOORS	REQUIRED	AS DESIGNED
SWINGING:	U-0.61	
ROLL-UP OR SLIDING:	N/A	

FENESTRATION (TABLE C402.3):

VERTICAL FENESTRATION	REQUIRED	AS DESIGNED
U-FACTOR:	0.50	
FIXED FENESTRATION:	N/A	
OPERABLE FENESTRATION:	0.63	
ENTRANCE DOORS:		

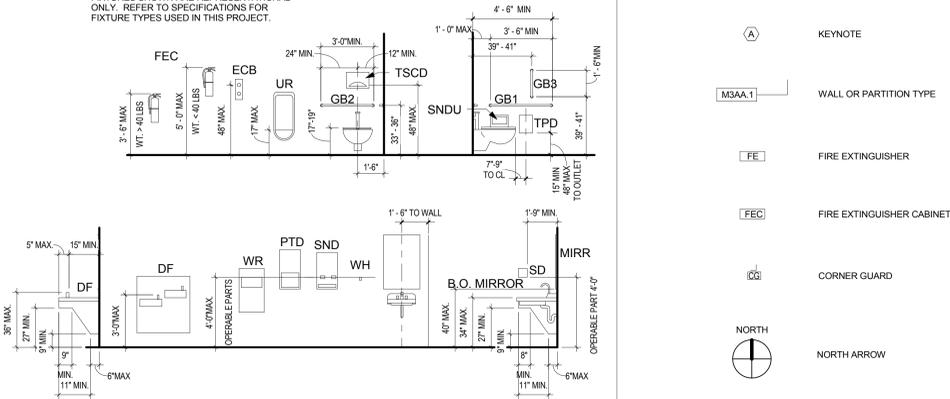
SHGC	REQUIRED	AS DESIGNED
SHGC:	0.25	

SKYLIGHTS	REQUIRED	AS DESIGNED
U-FACTOR:	N/A	
SHGC:	N/A	

MAXIMUM AREA (C402.3.1)
 THE VERTICAL FENESTRATION AREA (NOT INCLUDING OPAQUE DOORS AND OPAQUE SPANDREL PANELS) SHALL NOT EXCEED 30 PERCENT OF THE GROSS ABOVE-GRADE WALL AREA. THE SKYLIGHT AREA SHALL NOT EXCEED 3 PERCENT OF THE GROSS ROOF AREA.

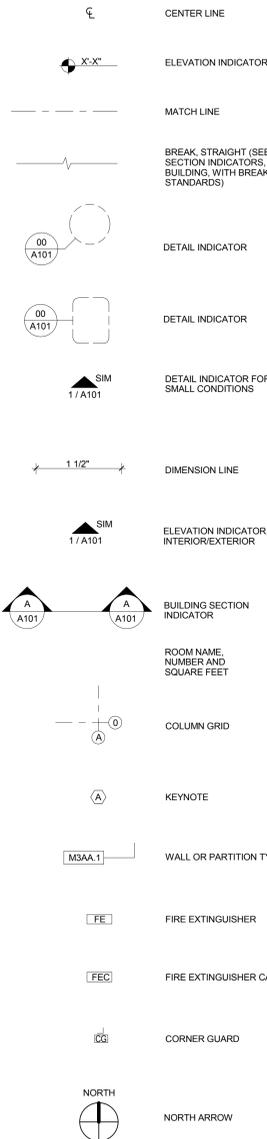
ENERGY REQUIREMENTS

NOTE:
 FIXTURES SHOWN ARE REPRESENTATIONAL ONLY. REFER TO SPECIFICATIONS FOR FIXTURE TYPES USED IN THIS PROJECT.



FIXTURE MOUNTING HEIGHT

SYMBOLS LEGEND



PURPOSE: THE PUBLIC BUILDINGS AMENDMENT ACT OF 1988, PUBLIC LAW (PUB. L.) 100-478 REQUIRES FEDERAL AGENCIES TO FOLLOW NATIONAL RECOGNIZED "MODEL" BUILDING CODES. THE FEDERAL PARTICIPATION IN THE CONSTRUCTION OF NEW STRUCTURES, VA DESIGN MANUALS AND MASTER SPECIFICATIONS SPECIFY OTHER CODES AND STANDARDS THAT VA FOLLOWS ON ITS PROJECTS.

GENERAL: VA HAS ADOPTED THE LATEST EDITION OF THE FOLLOWING CODES AND STANDARDS AS A MINIMUM FOR ALL PROJECTS PERFORMED IN THE MODERNIZATION, ALTERATION, ADDITION, OR IMPROVEMENT OF ITS REAL PROPERTY AND THE CONSTRUCTION OF NEW STRUCTURES. VA DESIGN MANUALS AND MASTER SPECIFICATIONS SPECIFY OTHER CODES AND STANDARDS THAT VA FOLLOWS ON ITS PROJECTS.

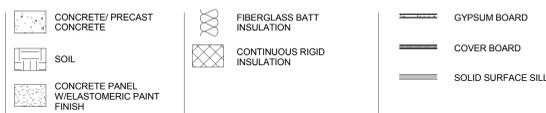
- VA DIRECTIVES, DESIGN MANUALS, MASTER SPECIFICATIONS, VA NATIONAL CAD STANDARD APPLICATION GUIDE, AND OTHER GUIDANCE ON THE TECHNICAL INFORMATION LIBRARY (TIL) ([HTTP://WWW.CEM.VA.GOV/TIL/](http://www.cem.va.gov/TIL/))
- INTERNATIONAL BUILDING CODE (IBC) (ONLY WHEN SPECIFICALLY REFERENCED IN VA DESIGN DOCUMENTS, SEE NOTES BELOW)
- NFPA 101 LIFE SAFETY CODE (SEE NOTES BELOW)
- NFPA NATIONAL FIRE CODES WITH THE EXCEPTION OF NFPA 5000 AND NFPA 900
- OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS
- VA SEISMIC DESIGN REQUIREMENTS, H-18-8
- NATIONAL ELECTRICAL CODE (NEC)
- INTERNATIONAL PLUMBING CODE (IPC)
- SAFETY CODE FOR ELEVATORS AND ESCALATORS, AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME) A 17.1
- ASME BOILER AND PRESSURE VESSEL CODE
- ASME CODE FOR PRESSURE PIPING
- ARCHITECTURAL BARRIERS ACT ACCESSIBILITY STANDARDS (ABAS) INCLUDING VA SUPPLEMENT, BARRIER FREE DESIGN GUIDE (PG-18-13)
- BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, AMERICAN CONCRETE INSTITUTE AND COMMENTARY (ACI 318)
- MANUAL OF STEEL CONSTRUCTION, LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)
- ENERGY POLICY ACT OF 2005 (EPACT)
- DOE INTERIM FINAL RULE: ENERGY CONSERVATION STANDARDS FOR NEW FEDERAL, COMMERCIAL AND MULTI-FAMILY HIGH-RISE RESIDENTIAL BUILDINGS AND NEW LOW-RISE RESIDENTIAL BUILDINGS, 10 CFR PARTS 435, 434 AND 435.
- FEDERAL LEADERSHIP IN HIGH PERFORMANCE AND SUSTAINABLE BUILDINGS: MEMORANDUM OF UNDERSTANDING (MOU)
- EXECUTIVE ORDER 13423: STRENGTHENING FEDERAL ENVIRONMENTAL, ENERGY, AND TRANSPORTATION MANAGEMENT.
- THE PROVISIONS FOR CONSTRUCTION AND SAFETY SIGNS, STATED IN THE GENERAL REQUIREMENTS SECTION 01010 OF THE VA MASTER CONSTRUCTION SPECIFICATION.
- VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY - ASHRAE STANDARD 62.1-2004.
- SAFETY STANDARD FOR REFRIGERATION SYSTEMS - ASHRAE STANDARD 15 - 2007.

LOCAL CODES: AS AN AGENCY OF THE FEDERAL GOVERNMENT, VA IS NOT SUBJECT TO LOCAL IMPOSITION OF CODE ENFORCEMENT PROCEDURES (DRAWING REVIEWS, BUILDING PERMITS, INSPECTIONS, FEES, ETC.). VA MUST FUNCTION AS THE AUTHORITY HAVING JURISDICTION (AHJ) AND THUS HAS THE RESPONSIBILITY TO GUARD PUBLIC HEALTH AND SAFETY THROUGH ENFORCING ITS ADOPTED CODES. HOWEVER, LOCAL AUTHORITIES SHOULD BE NOTIFIED ABOUT PLANNED PROJECTS AND GIVEN OPPORTUNITY TO REVIEW DRAWINGS PROVIDED THAT VA DOES NOT PAY FOR REVIEW OR INSPECTION FEES.

NOTES:

- NFPA 101 PRIMARILY ADDRESSES LIFE SAFETY AND FIRE PROTECTION FEATURES WHILE THE IBC ADDRESSES A WIDE RANGE OF CONSIDERATIONS, INCLUDING, BUT NOT LIMITED TO, STRUCTURAL STRENGTH, SEISMIC STABILITY, SANITATION, ADEQUATE LIGHT AND VENTILATION, AND ENERGY CONSERVATION. VA BUILDINGS MUST MEET THE REQUIREMENTS OF NFPA 101 AND DOCUMENTS REFERENCED BY NFPA 101 IN ORDER TO COMPLY WITH THE ACCREDITATION REQUIREMENTS OF THE JOINT COMMISSION. THEREFORE, DESIGNS SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF NFPA 101 AND DOCUMENTS REFERENCED THEREIN. DESIGN FEATURES NOT ADDRESSED BY NFPA 101 OR DOCUMENTS REFERENCED THEREIN SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE IBC OR AS OTHERWISE ADDRESSED ABOVE IN THIS PROGRAM GUIDE. FOR DESIGN FEATURES THAT ARE ADDRESSED BY BOTH THE IBC AS WELL AS NFPA 101 OR A DOCUMENT REFERENCED BY NFPA 101, THE REQUIREMENTS OF NFPA 101 OR THE DOCUMENT REFERENCED BY NFPA 101 SHALL BE USED EXCLUSIVELY (THIS APPLIES EVEN IF THE IBC REQUIREMENTS ARE DIFFERENT).
- CONFLICTS BETWEEN NATIONALLY RECOGNIZED CODES AND STANDARDS AND VA REQUIREMENTS - SHOULD A CONFLICT EXIST BETWEEN VA REQUIREMENTS AND VA ADOPTED NATIONALLY RECOGNIZED CODES AND STANDARDS, THE CONFLICT SHALL BE BROUGHT TO THE ATTENTION OF VA. THE RESOLUTION OF THE CONFLICT SHALL BE MADE BY THE AUTHORITY HAVING JURISDICTION FOR VA TO ENSURE A CONSISTENCY SYSTEM WIDE.

CODE, STANDARDS AND EXECUTIVE ORDERS



MATERIALS LEGEND

GENERAL NOTES

- DRAWINGS ARE PART OF A COMPLETE CONSTRUCTION DOCUMENT SET WHICH INCLUDES DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL CONFIRM ALL ITEMS REQUIRED BASED UPON THE OVERALL DESIGN INTENT OF THE ENTIRE DOCUMENT SET.
- VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK TO CONFIRM ACCURACY IN DRAWINGS. REPORT ANY DISCREPANCIES TO ARCHITECT. DO NOT SCALE THE DRAWINGS. FIELD VERIFY ALL DIMENSIONS AND EXISTING STRUCTURAL CONDITIONS.
- ALL AREAS NOT INVOLVED IN THE SCOPE OF WORK FOR THIS PROJECT SHALL BE KEPT CLEAN AND FREE OF OBSTRUCTIONS AT ALL TIMES. ERECT BARRICADES AND WARNING SIGNS TO DIVERT AND WARN PASSERS BY OF THE CONSTRUCTION WORK. PROVIDE DUST PROOFING ENCLOSURES TO SEPARATE WORK AREAS FROM THE EXISTING FACILITIES.
- ALL TRASH AND DEBRIS TO BE REMOVED ON A DAILY BASIS.
- PROVIDE PROTECTION FOR ALL EXISTING SURFACES AND CONDITIONS TO REMAIN IN PLACE DURING THE SCOPE OF WORK. SHOULD ANY DAMAGE OCCUR, PATCH AND REPAIR ANY DAMAGE TO ADJACENT FINISHES TO MATCH EXISTING.
- ANY DAMAGE CAUSED TO THE BUILDING OR OWNER EQUIPMENT SHALL BE REPAIRED OR REPLACED BACK TO ITS ORIGINAL CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
- APPROPRIATE LIGHT FIXTURES SHALL BE TEMPORARILY SUSPENDED TO PROVIDE ADEQUATE LIGHTING LEVELS FOR CONSTRUCTION.

- Omit West Parking Lot Scope. Reference Sheets: GI-100, CS-102, ES-101.
- Omit Operable Partition and adjacent Wing Walls in Conference Room 217. Reference Drawings: 02/AS-101, 02/AS-102, 02/AS-200, 13/AS-510, 14/AS-511. Reference Sheet: EL-101.
- Convert Suite C to Conditioned Storage. Reference Drawings: 01/AS-103, 01/AS-201, Window Type 'J' and 'K' on Sheet AS-800. Reference Sheets: FA-101, FP-101, PL-101, PP-101, M-101, EL-101, EP-101, TS-101.
 - In Suite C 206, Break Room 205, and Copier Room 213: Omit providing and installing floor finishes, casework, ceiling grid and tile, plumbing fixtures, mechanical duct work (except minimum required as shown), power and data, walls, windows, and doors except for suite corridor wall, and lighting except for minimum required safety lights.
- Convert Suite D to Conditioned Storage. Reference Drawings: 02/AS-103, 02/AS-201, Window Type 'J' and 'K' on Sheet AS-800. Reference Sheets: FA-101, FP-101, PL-101, PP-101, M-101, EL-101, EP-101, TS-101.
 - In Suite D 210, Break Room 206, and Copier Room 214: Omit providing and installing floor finishes, casework, ceiling grid and tile, plumbing fixtures, mechanical duct work (except minimum required as shown), power and data, walls, windows, and doors except for suite corridor wall, and lighting except for minimum required safety lights.
- Alternate Second Floor Common Space. Reference Drawings: 03/AS-103, 07/AS-600, 02/AS-601, Window Type 'M' on Sheet AS-800. Reference Sheets: FA-101, FP-101, PL-101, PP-101, M-101, EL-101, EP-101, TS-101.
 - In Enclave 200, Electrical Room 215, IT Closet 216, Conference Room 217, Restrooms 218, 219, 220, 221, Storage 222, Corridor 223, 224, 225, 226: Omit providing and installing floor finishes, casework, walls, windows, and doors ceiling grid and tile, plumbing fixtures, mechanical duct work (except for minimum required as shown), power and data, and lighting except for minimum required safety lights.
- Omit providing and installing Elevator Equipment. Final electrical connections are not to be installed. Elevator sump and oil separator are required to be provided and installed. Reference Sheet: AS-701.

BID DEDUCT ALTERNATES

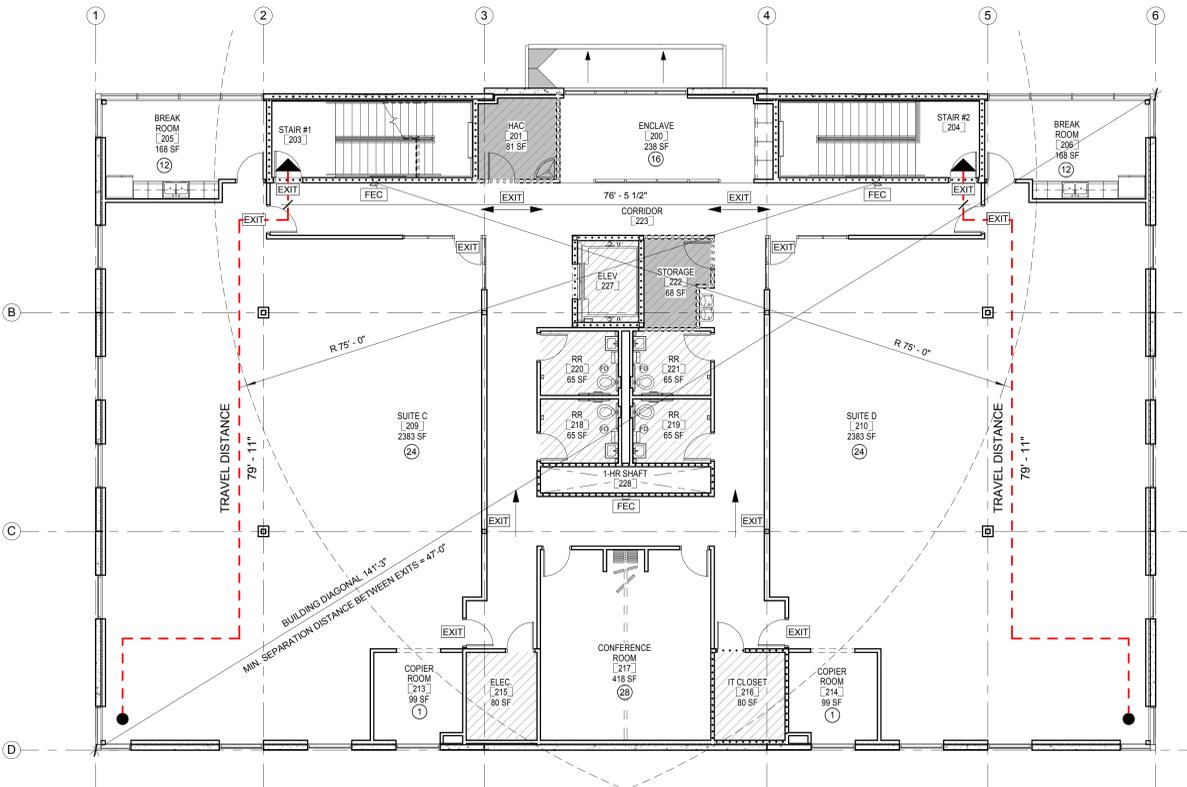
ACS DR	ACCESS DOOR	CD	CONSTRUCTION DOCUMENTS OR CONTRACT DOCUMENTS	DL	DEAD LOAD	FLSHG	FLASHING	HS	HEAT STRENGTHENED (GLASS) OR HIGH STRENGTH	MS	MACHINE SCREW OR MOP SINK MOUNTED	QA	QUALITY ASSURANCE	SND	SANITARY NAPKIN DISPENSER	UR	URINAL
ACS PNL	ACCESS PANEL	CEM	CEMENT	DR	DR DOOR OR DRAIN	FLR	FLOOR FINISH	HSD	HAND SANITIZER DISPENSER	MTD	METAL	CC	QUALITY CONTROL	SND NS	SOUND INSULATION	UTL	UTILITY
ACST	ACOUSTIC	CER	CERAMIC	DR FR	DR FRAME	FLR FN	FLOOR FINISH	HT	HEIGHT	MTL	MULLION	QTY	QUANTITY	SNDU	SANITARY NAPKIN DISPOSAL UNIT	VAR	VARIABLES
AT	ACOUSTICAL CEILING TILE	CFM	COLD-FORMED METAL FRAMING	DR OPNG	DR OPENING	FLR SX	FLOOR FINISH	ID	INSIDE DIAMETER	MUL	MULLION	QVAL	QUALITY	SPKR	SPRINKLER	VC	VA PROVIDED / CONTRACTOR INSTALLED
AT (SP)	ACOUSTICAL CEILING TILE (WITH SPRAYED PLASTIC FINISH)	CFR	CORNER GUARD	DS	DOWNSPOUT	FLR FX	FLOOR FINISH	INSUL	INSULATION	MC	MICROWAVE	R	RADIUS OR RISER	SPQR	SQUARE INCH	V	VA PROVIDED / CONTRACTOR INSTALLED
AD	AREA DRAIN	CJ	CONSTRUCTION JOINT OR CONTROL JOINT	EA	EACH	FO	FACE OF FINISH	INT	INTERIOR	NC	NONCOMBUSTIBLE	RB	RUBBER	SS	STAINLESS STEEL	VCT	VINYL COMPOSITION TILE
ADA	AMERICANS WITH DISABILITIES	CL	CENTER LINE	EOB	ELEVATOR OR CALL BUTTON	FOC	FACE OF CONCRETE	KPL	KICKPLATE	NCMBL	NOT IN CONTRACT	RB HK	ROBE HOOK	SS	SERVICE SINK	VFC	VINYL FACED ACOUSTICAL TILE
ADD	AUTOMATIC DOOR CLOSER	CLG	CEILING	EJ	EXPANSION JOINT	FOM	FACE OF MASONRY	L	ANGLE	NC	NOT IN CONTRACT	RBR	RUBBER	SST	STAINLESS STEEL	VFR	VAPOR RETARDER
ADH	ADHESIVE	CLG HT	CEILING HEIGHT	EL	ELEVATION	FOS	FACE OF SLAB OR FACE OF STUD	LAM GL	LAMINATED GLASS	NRC	NOISE REDUCTION COEFFICIENT	RCP	REFLECTED CEILING PLAN	ST	STAIRS	VMC	VINYL WALL COVERING
ADMIN	ADMINISTRATION	CMU	CONCRETE MASONRY UNIT	ELEC	ELECTRIC	FOW	FACE OF WALL	LAM GL	LAMINATED GLASS	NRM	NOMINAL	REC	RECESSED	STRCT	STRUCTURAL	VWF	VINYL WALL FABRIC
ADB	AUTOMATIC DOOR BOTTOM	CONC	CONCRETE	ELC DR OP	ELECTRIC DOOR OPENER	FR	FRAMING	L	ANGLE	NR	NOISE REDUCTION	RECT	RECTANGLE	STRUC	STRUCTURAL	W	WALLCOVERING (VINYL COATED FABRIC)
AFC	ABOVE FINISHED COUNTER	CONC FLR	CONCRETE FLOOR	ELEV	ELEVATOR OR ELEVATION	FRM	FIBER REINFORCED POLYESTER OR FRAMING	LAV	LAVATORY	NRC	NOISE REDUCTION	REF	REFERENCE OR REFRIGERATOR	STLNS	STAINLESS	W	WOOD
AFB	ABOVE FINISHED FLOOR	CONF	CONFERENCE	EQIP	EQUIPMENT	FRP	FIBER REINFORCED POLYESTER OR FRAMING	LAV BRG	LAVATORY LONG BEARING	NR	NOISE REDUCTION	RENE	REINFORCE	STOR	STORAGE	WO	WITHOUT
AFF	ABOVE FINISHED SPACE	CONT	CONTINUING OR CONTINUOUS	EQIP	EQUIPMENT	FT	FEET OR FOOT	LF	LINEAR FEET (FOOT)	OA	OUT TO OUT	REQD	REQUIRED	SUSP CLG	SUSPENDED CEILING SHEET VINYL	WBL	WOOD BLOCKING
AFS	ABOVE FINISHED SLAB	CONTR	CONTRACTOR	EQV	EQUIVALENT	FT	FEET OR FOOT	LND	LINEUM	OC	ON CENTER	RES	RESILIENT	SUSP CLG	SUSPENDED CEILING SHEET VINYL	WC	WATER CLOSET
ALUM	ALUMINUM	CONTR	CONTRACTOR	ESC	ESCUITHEON	FURNG	FURNISH OR FURNITURE	LNG	LONG	OD	OUTSIDE DIAMETER OR OUTSIDE DIAMETER	RESIL	RESILIENT	SV	SHEET VINYL	WC WL HNG	WATER CLOSET, WALL HUNG
AR	AS REQUIRED	CORN	CORNER	ESC	ESCUITHEON	FURN	FURNISH OR FURNITURE	LNG	LONG	OFF	OFFICE	RET	RETURN	T	TREAD	WD	WOOD
ASB	ASBESTOS	CPSS	COMPRESSIBLE	EN	EXPANSION OR EXPOSED	FURN	FURNISH OR FURNITURE	LNG	LONG	OH DR	OVERHEAD (COILING) DOOR	REV	REVISION	TAG	TONGUE AND GROOVE	NDW	WINDOW
AUT	AUTOMATIC WALL TREATMENT	CSP	COMPRESSIBLE	EXT	EXTINGUISHER	FWC	FABRIC WALLCOVERING	LVT	LUXURY VINYL TILE	OH DR	OVERHEAD (COILING) DOOR	RM	ROOM	TB	TOWEL BAR	WFB	WALL FABRIC
BAT	BATTERY	CSPK	COMPRESSIBLE	EXT	EXTINGUISHER	GA	GALVANIZED	MAX	MAXIMUM	OPP	OPPOSITE	RO	ROUGH OPENING	TD	TOWEL DISPENSER	WH	WALL HOOK
BLKT	BLANKET	CT	CERAMIC TILE	EX	EXPOSED	GALV	GALVANIZED	MCB	METAL CORNER BEAD	P	PAINT	RSF	ROUGH OPENING	TEL	TELEPHONE	WR	WASTE RECEPTACLE
BM	BEAM OR BENCHMARK	CTB	CERAMIC TILE BASE	EXT	EXTINGUISHER	GB	GRAB BAR	MD	METAL DECK	PL	PLASTER	RV	ROUGH OPENING	THRS	THRESHOLD	WCSOT	WAINSCOT
BRG	BEARING	CTF	CERAMIC TILE FLOOR	EXT	EXTINGUISHER	GLD	GLASS	MEL	MELT	PLAM	PLASTER	S	SEALED CONCRETE	THRS	THRESHOLD	WSP	WAINSCOT
BRG PL	BEARING PLATE	CTL	CONTROL	EXT	EXTINGUISHER	GL	GLASS	MEMB	MEMBRANE	PLAS	PLASTIC	SAT	SATURATED	THRS	THRESHOLD	WSP	WAINSCOT
BRKT	BRACKET	DBL	DOUBLE	EXT	EXTINGUISHER	GLD	GLASS	MEL	MELT	PLAS	PLASTIC	SC	SCHEDULE	THRS	THRESHOLD	WSP	WAINSCOT
BTWN	BETWEEN	DC	DIAPER CHANGE	EXT	EXTINGUISHER	GLD	GLASS	MEL	MELT	PLAS	PLASTIC	SCD	SCHEDULED	THRS	THRESHOLD	WSP	WAINSCOT
C TO C	CENTER TO CENTER	DEM	DEMOLITION	EXT	EXTINGUISHER	GLD	GLASS	MEL	MELT	PLAS	PLASTIC	SCD	SCHEDULED	THRS	THRESHOLD	WSP	WAINSCOT
CAB	CABINET	DET	DETAIL	EXT	EXTINGUISHER	GLD	GLASS	MEL	MELT	PLAS	PLASTIC	SCD	SCHEDULED	THRS	THRESHOLD	WSP	WAINSCOT
CAC	CEILING ATTENUATION CLASS	DF	DRINKING FOUNTAIN DIAMETER	EXT	EXTINGUISHER	GLD	GLASS	MEL	MELT	PLAS	PLASTIC	SCD	SCHEDULED	THRS	THRESHOLD	WSP	WAINSCOT
CB	CORNER BEAD	DF	DRINKING FOUNTAIN DIAMETER	EXT	EXTINGUISHER	GLD	GLASS	MEL	MELT	PLAS	PLASTIC	SCD	SCHEDULED	THRS	THRESHOLD	WSP	WAINSCOT
CSB	CEMENTitious BACKER BOARD	DF	DRINKING FOUNTAIN DIAMETER	EXT	EXTINGUISHER	GLD	GLASS	MEL	MELT	PLAS	PLASTIC	SCD	SCHEDULED	THRS	THRESHOLD	WSP	WAINSCOT
CCTV	CLOSED CIRCUIT TELEVISION	DF	DRINKING FOUNTAIN DIAMETER	EXT	EXTINGUISHER	GLD	GLASS	MEL	MELT	PLAS	PLASTIC	SCD	SCHEDULED	THRS	THRESHOLD	WSP	WAINSCOT
CC	CONTRACTOR FINISHED / CONTRACTOR INSTALLED	DF	DRINKING FOUNTAIN DIAMETER	EXT	EXTINGUISHER	GLD	GLASS	MEL	MELT	PLAS	PLASTIC	SCD	SCHEDULED	THRS	THRESHOLD	WSP	WAINSCOT

ARCHITECTURAL ABBREVIATIONS

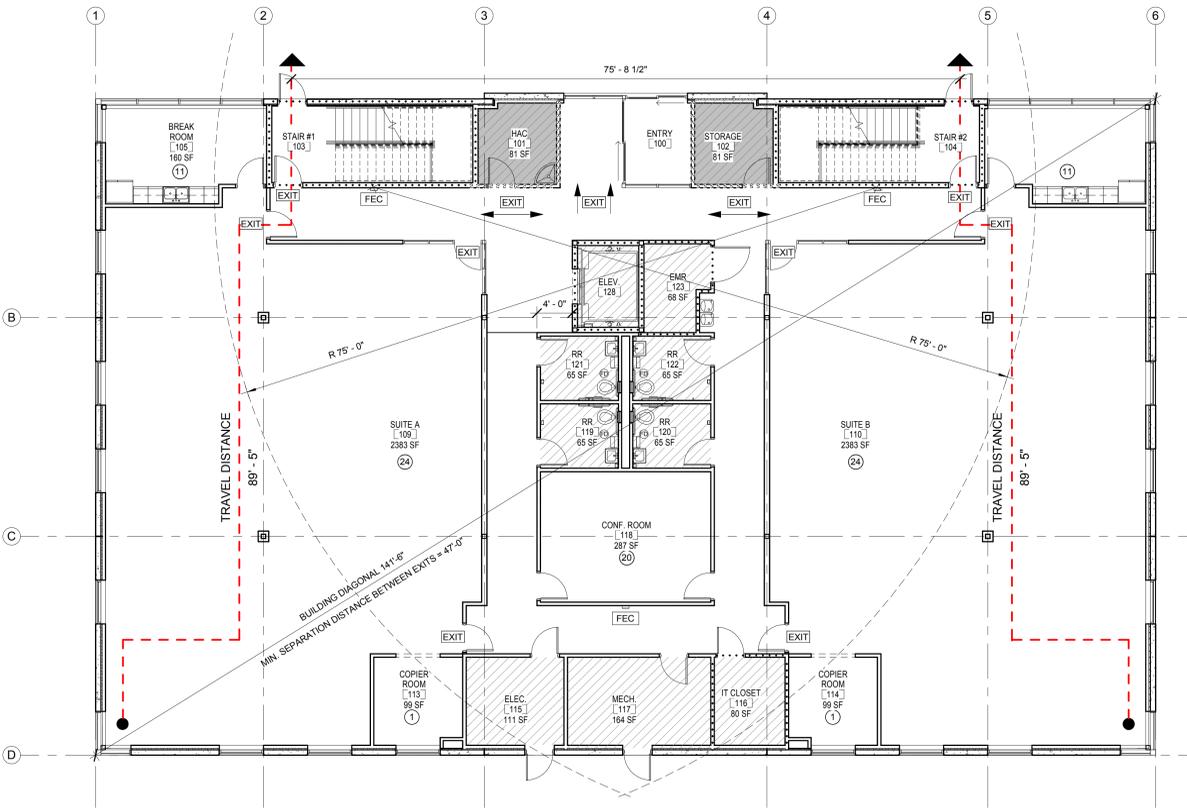
BID DOCUMENTS

CONSULTANTS		ARCHITECT & M.E.P. ENGINEER		APPROVED: DIRECTOR		SHEET TITLE		PROJECT TITLE		VA PROJECT NUMBER	
STRUCTURAL / CIVIL ENGINEER		FIRE PROTECTION / TELECOM ENGINEER		APPROVED: ASSOCIATE DIRECTOR		GENERAL INFORMATION		NEW ADMINISTRATION BUILDING		580-CSI-110	
H2B, INC. 1225 N. LOOP WEST, SUITE 900 HOUSTON, TX 77008 (713) 864-2900		PAGE 400 W. CESAR CHAVEZ STREET, SUITE 500 AUSTIN, TX 78701 (512) 472-6721		APPROVED: ASSISTANT DIRECTOR		APPROVED: CHIEF ENGINEER		PROJECT LOCATION 2002 HOLCOMBE BOULEVARD HOUSTON, TX 77030		BUILDING NUMBER	
Revision #		Date		APPROVED: CHIEF ENGINEER		DATE		06-27-17		DRAWING NUMBER	
						CHECKED		SAC		DRAWN	
						DATE		06-27-17		Dwg 2 OF 95	
						DRAWN		MEB		Office of Construction and Facilities Management	
						DATE		06-27-17		VA U.S. Department of Veterans Affairs	

three inches = one foot
 one and one-half inches = one foot
 one inch = one foot
 three-quarters inch = one foot
 one-half inch = one foot
 one-quarter inch = one foot
 one-eighth inch = one foot



2 LIFE SAFETY PLAN - SECOND LEVEL
 GI-011 1/8" = 1'-0" F.F.E = 59'-0"



1 LIFE SAFETY PLAN - GROUND LEVEL
 GI-011 1/8" = 1'-0" F.F.E = 45'-0"

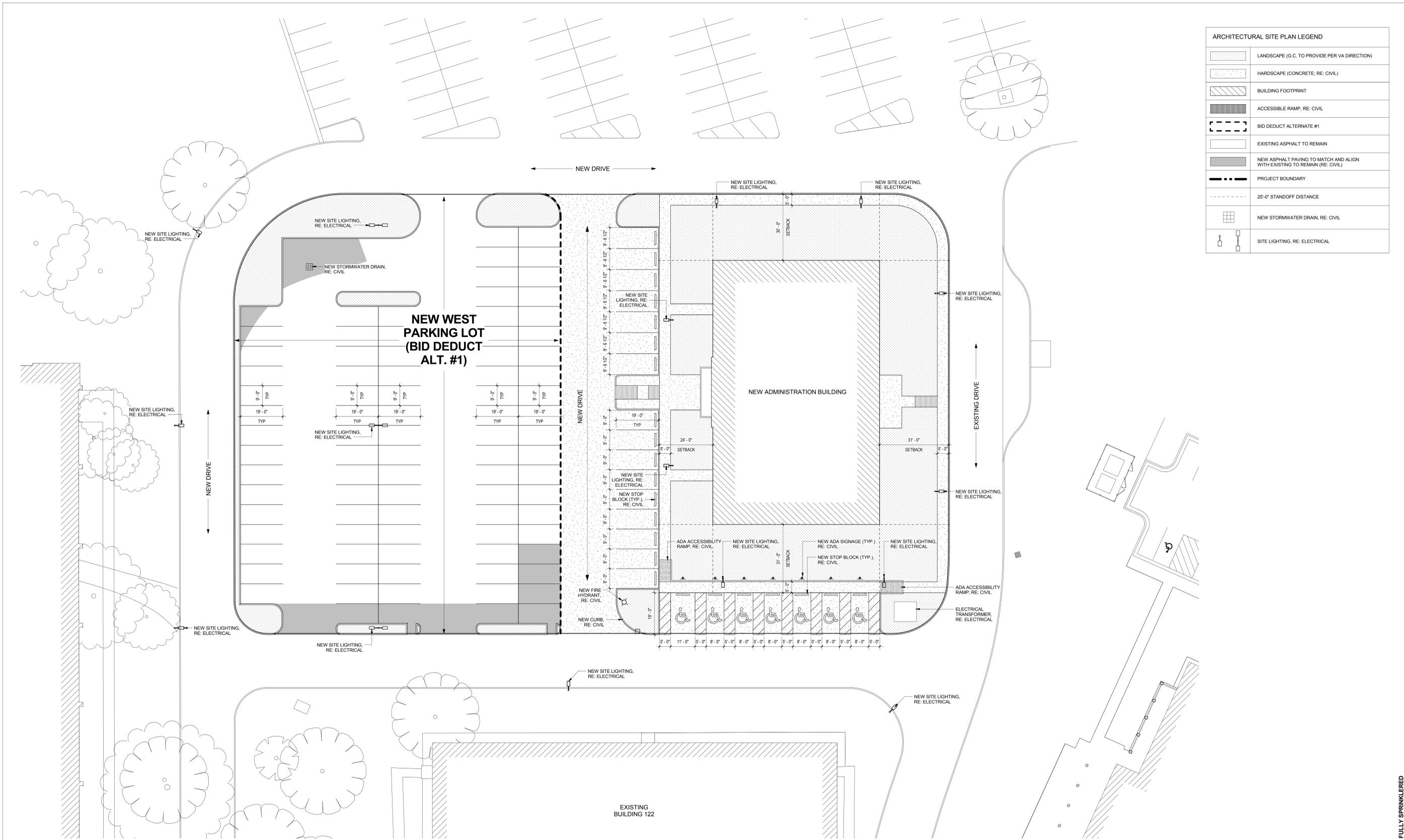
- IBC 2012**
- BUILDING HEIGHT:** 2 STORIES, 34'-0" HEIGHT
BUILDING AREA: FIRST FLOOR: 9,020 SF
 SECOND FLOOR: 8,990 SF
 TOTAL: 17,910 SF
- SPRINKLER SYSTEM:** BUILDING IS FULLY SPRINKLERED IN ACCORDANCE WITH NFPA 13
- OCCUPANCY CLASSIFICATION:** B (BUSINESS) (NFPA 101 - CH. 38) (IBC SECTION 304)
- OCCUPANT LOAD**
- FIRST FLOOR: 92 OCC.
 - SECOND FLOOR: 118 OCC.
 - TOTAL OCCUPANT LOAD: 210 OCC.
- OCCUPANT LOADS (NFPA 101: TABLE 7.3.1.2) (IBC TABLE 1004.1.2):**
- FIRST FLOOR BUSINESS USE = 100 SF/PERSON
 - SECOND FLOOR BUSINESS USE = 100 SF/PERSON
 - FIRST FLOOR ASSEMBLY AREAS WITHOUT FIXED SEATING (UNCONCENTRATED) = 15 SF/PERSON
 - SECOND FLOOR ASSEMBLY AREAS WITHOUT FIXED SEATING (UNCONCENTRATED) = 15 SF/PERSON
- CONSTRUCTION TYPE:** TYPE II(000) TYPE IIB (IBC 602.2)
- MAX ALLOWABLE FLOOR AREA/FLOOR:** 23,000 S.F. (IBC TABLE 503)
MAX ALLOWABLE BUILDING HEIGHT/MAX # OF FLOORS: 55'-0" (3) (TABLE 503)
ACTUAL NUMBER OF FLOORS: 2
- OVERALL DIAGONAL OF FIRST FLOOR:** 141'-6"
OVERALL DIAGONAL OF SECOND FLOOR: 141'-3"
- MIN. SEPARATION BETWEEN EXITS (1/3 OF OVERALL DIAGONAL):** 47'-0"
- ACTUAL SEPARATION BETWEEN FIRST FLOOR EXITS:** 76'-5"
ACTUAL SEPARATION BETWEEN SECOND FLOOR EXITS: 75'-8"
- NUMBER OF EXITS REQUIRED ON FIRST FLOOR:** 2 (NFPA 101: 38.2.4.1)
NUMBER OF EXITS REQUIRED ON SECOND FLOOR: 2 (NFPA 101: 38.2.4.1)
- NUMBER OF EXITS PROVIDED ON FIRST FLOOR:** 5
NUMBER OF EXITS PROVIDED ON SECOND FLOOR: 2
- FIRE RESISTANCE RATINGS: (IBC TABLE 601)**
- COLUMNS: 0 HR
 - BEAM, GIRDERS, TRUSSES: 0 HR
 - FLOOR/CEILING ASSEMBLIES: 0 HR
 - ROOF/CEILING ASSEMBLIES: 0 HR
 - EXTERIOR NON-BEARING WALLS: 0 HR
 - INTERIOR NON-BEARING WALLS: 0 HR
- ROOF FIRE CLASSIFICATION:** CLASS C (IBC TABLE 1505.1)
- INTERIOR ENVIRONMENT:** (NFPA 101: 38.3.3) (IBC TABLE 803.9)
- EXIT ENCLOSURES & PASSAGEWAYS: CLASS B
 - CORRIDORS: CLASS B
 - ROOMS & ENCLOSED SPACES: CLASS C
- FIRE-RESISTIVE REQUIREMENTS: (602.3)**
- NON COMBUSTIBLE MATERIALS FOR STRUCTURAL FRAME, FLOORS, ROOF DECK, EXTERIOR NON-BEARING WALLS, INTERIOR NON-BEARING WALLS (U.N.O. AT EXTERIOR)
- SHAFTS MINIMUM 1-HOUR RATING (NFPA 101: 7.1.3.2.1) (IBC TABLE 713.4)**
INTERIOR EXIT STAIRWAYS MINIMUM 1-HOUR RATING (NFPA 101: 7.1.3.2.1) (IBC TABLE 713.4)
- DEAD END CORRIDOR MAXIMUM DISTANCE:** 50' (NFPA 101: 38.2.5.2.1) (IBC 1018.4 Exception #2)
MAXIMUM COMMON PATH OF TRAVEL: 100' (NFPA 101: 38.2.5.3.1) (IBC TABLE 1014.3)
MAXIMUM TRAVEL DISTANCE: 300' (NFPA 101: 38.2.6.1) (IBC TABLE 1016.2)
CORRIDOR MINIMUM FIRE RATING: 0 HR (NFPA 101: 38.3.5.1) (IBC TABLE 1018.1)
- ALL EXIT DOORS PROVIDED ARE 36" LEAF MINIMUM YIELDING 34" CLEAR EXIT WIDTH**
 20"/PERSON (NFPA 101: TABLE 7.3.3.3) ALLOWS 170 OCCUPANT LOAD PER DOOR MAX.
- STAIR WIDTH PROVIDED IS 48" CLEAR AT STAIR 1 (WEST) AND 48" CLEAR AT STAIR 2 (EAST)**
 3"/PERSON (NFPA 101: TABLE 7.3.3.1) ALLOWS 160 OCCUPANT LOAD AT STAIR 1 MAX.
 3"/PERSON (NFPA 101: TABLE 7.3.3.1) ALLOWS 160 OCCUPANT LOAD AT STAIR 2 MAX.
- PLUMBING FIXTURE CALCULATIONS (IBC TABLE 2902.1):**
WATER CLOSETS: 1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50.
 (8 REQUIRED) 4 PER EACH SEX.
LAVATORIES: 1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80.
 (8 REQUIRED) 3 PER EACH SEX.
DRINKING FOUNTAINS: 1 PER 100 (3 REQUIRED)
SERVICE SINK: 1 REQUIRED
- TOTAL OCCUPANT LOAD: 210**
 8 WATER CLOSETS PROVIDED
 8 LAVATORIES PROVIDED
 4 DRINKING FOUNTAINS PROVIDED
 2 SERVICE SINKS PROVIDED

- LIFE SAFETY LEGEND**
- 1 OCCUPANT LOAD
 - FEC FIRE EXTINGUISHER CABINET
 - EXIT EXIT SIGNAGE (NFPA 101: 38.2.10)
 - SPACE NOT OCCUPIED
 - PROTECTED AREA ENCLOSED WITH SMOKE PARTITIONS
 - BUILDING EXIT
 - EGRESS PATH OF TRAVEL AND DISTANCE (MAX TRAVEL DISTANCE = 100'-0" (TABLE 1021.2) NOTE B)
 - FIRE EXTINGUISHER MAX 75' TRAVEL DISTANCE
- FIRE RATED WALL SYMBOLS:**
- 1 HOUR FIRE PARTITION
 - S.S.S.S SMOKE PARTITION

FULLY SPRINKLERED

<p>CONSULTANTS</p> <p>STRUCTURAL / CIVIL ENGINEER FIRE PROTECTION / TELECOM ENGINEER</p> <p>H2B, INC. PAGE 1225 N. LOOP WEST, SUITE 900 400 W. CESAR CHAVEZ STREET, SUITE 500 HOUSTON, TX 77008 AUSTIN, TX 78701 (713) 864-2900 (512) 472-6721</p>		<p>ARCHITECT & M.E.P. ENGINEER</p> <p>SPUR DESIGN</p> <p>130 8th St. Suite A 1313 Margaret Road Houston, TX 77008 Houston, TX 77055 (713) 864-2900 (281) 441-1111</p> <p>TX ARCH REGISTRATION NO. BR 2171 TX ENGR REGISTRATION NO. F-17591</p> <p>27 JUNE 2017</p>		<p>APPROVED: DIRECTOR</p> <p>APPROVED: ASSOCIATE DIRECTOR</p> <p>APPROVED: ASSISTANT DIRECTOR</p> <p>APPROVED: CHIEF ENGINEER</p>		<p>SHEET TITLE</p> <p>LIFE SAFETY PLANS</p> <p>APPROVED: CHIEF ENGINEER</p>		<p>PROJECT TITLE</p> <p>NEW ADMINISTRATION BUILDING</p> <p>PROJECT LOCATION</p> <p>2002 HOLCOMBE BOULEVARD HOUSTON, TX 77030</p> <p>DATE: 06-27-17 CHECKED: SAC DRAWN: MEB</p>		<p>VA PROJECT NUMBER</p> <p>580-CSI-110</p> <p>BUILDING NUMBER</p> <p>DRAWING NUMBER</p> <p>GI-011</p> <p>Dwg 3 OF 95</p>		<p>Office of Construction and Facilities Management</p> <p>VA U.S. Department of Veterans Affairs</p>	
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ARCHITECTURAL SITE PLAN LEGEND	
	LANDSCAPE (G.C. TO PROVIDE PER VA DIRECTION)
	HARDSCAPE (CONCRETE; RE: CIVIL)
	BUILDING FOOTPRINT
	ACCESSIBLE RAMP; RE: CIVIL
	BID DEDUCT ALTERNATE #1
	EXISTING ASPHALT TO REMAIN
	NEW ASPHALT PAVING TO MATCH AND ALIGN WITH EXISTING TO REMAIN (RE: CIVIL)
	PROJECT BOUNDARY
	25'-0" STANDOFF DISTANCE
	NEW STORMWATER DRAIN; RE: CIVIL
	SITE LIGHTING; RE: ELECTRICAL



three inches = one foot
 one and one-half inches = one foot
 one inch = one foot
 one inch = one foot
 three-quarters inch = one foot
 one-half inch = one foot
 one-quarter inch = one foot
 three-eighths inch = one foot
 one-eighth inch = one foot
 one-eighth inch = one foot
 one-eighth inch = one foot

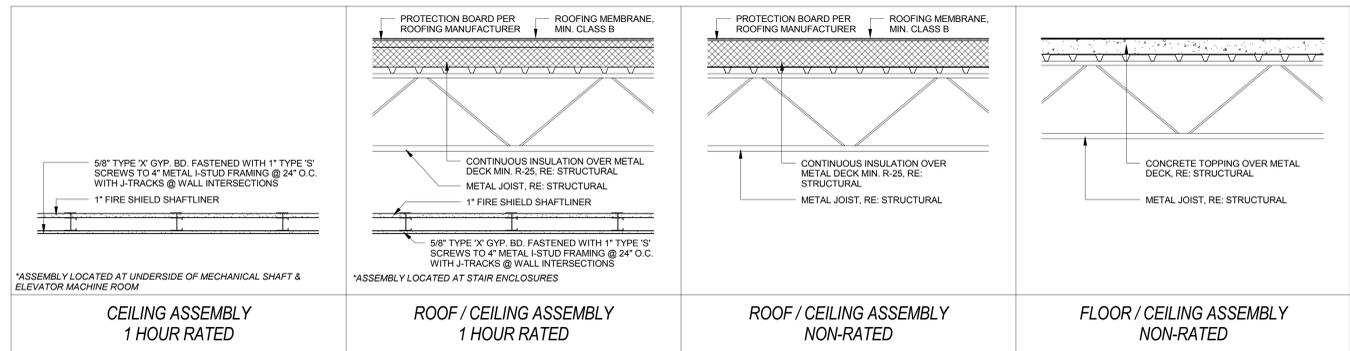
1 OVERALL SITE PLAN
 1/16" = 1'-0" F.F.E. = 45' - 0"

FULLY SPRINKLERED

BID DOCUMENTS

CONSULTANTS STRUCTURAL / CIVIL ENGINEER H2B, INC. 1225 N. LOOP WEST, SUITE 900 HOUSTON, TX 77008 (713) 864-2900		FIRE PROTECTION / TELECOM ENGINEER PAGE 400 W. CESAR CHAVEZ STREET, SUITE 500 AUSTIN, TX 78701 (512) 472-6721		ARCHITECT & M.E.P. ENGINEER 1313 Westgate Road Houston, TX 77057 (281) 416-1111 spur-design.com TX ARCH REGISTRATION NO. BR 2171 TX ENGR REGISTRATION NO. F-17591		APPROVED: DIRECTOR APPROVED: ASSOCIATE DIRECTOR APPROVED: ASSISTANT DIRECTOR APPROVED: CHIEF ENGINEER		SITE PLAN APPROVED: CHIEF ENGINEER		PROJECT TITLE NEW ADMINISTRATION BUILDING PROJECT LOCATION 2002 HOLCOMBE BOULEVARD HOUSTON, TX 77030		VA PROJECT NUMBER 580-CSI-110 BUILDING NUMBER DRAWING NUMBER GI-100 Dwg. 4 OF 95		Office of Construction and Facilities Management U.S. Department of Veterans Affairs	
Revision #	Date														

- GENERAL NOTES:**
- REFER TO PLANS FOR LOCATIONS OF EACH PARTITION.
 - PAIN CONTINUOUS 4" TALL, STENCILED LETTERS, ABOVE CEILING, ON BOTH SIDES OF ALL FIRE AND SMOKE WALLS DESIGNATING THE PARTITION RATING INDICATED ON THE LIFE SAFETY PLAN.
 - REFER TO FINISH SCHEDULE AND INTERIOR ELEVATIONS FOR LOCATIONS OF ALL WALL TILE. PROVIDE AND INSTALL CEMENTITIOUS BACKER BOARD IN LIEU OF GWB AT ALL SCHEDULED TILE LOCATIONS. UNLESS NOTED OTHERWISE, TILE SHALL BE INSTALLED PER TILE COUNCIL OF AMERICA LATEST STANDARDS FOR EACH TYPE OF BACKING MATERIAL REPRESENTED IN WALL/PARTITION.
 - ALL SUSPENDED WALLS AND PARTITIONS SHALL HAVE GWB WHICH EXTENDS A MINIMUM OF 6" ABOVE THE SUSPENDED CEILING UNLESS SHOWN AND/OR NOTED OTHERWISE BY THE ARCHITECT.
 - REFER TO STRUCTURAL DRAWINGS FOR ALL LOAD BEARING WALL CONDITIONS IN REGARDS TO STRUCTURAL REQUIREMENTS.
 - "ALIGN" MEANS SIMILAR COMPONENTS OF CONSTRUCTION, E.G. WALLS, JAMBS, ETC. SHALL ALIGN ACROSS VOIDS AND JOINTS.
 - PARTITIONS SHALL BE CONTINUOUS OVER WALLS ABOVE DOORS (UNLESS NOTED OTHERWISE) WHERE DRYWALL CONTIGUES ABOVE CEILING AND ABOVE THE CEILING LEVEL UP TO THE STRUCTURE ABOVE. ALL GYPSUM BOARD CORNERS SHALL HAVE CORNER BEADS MINIMUM FLOOR TO CEILING. ALL PENETRATIONS IN DRYWALL CONSTRUCTION ABOVE FINISHED CEILING SHALL BE EFFECTIVELY SEALED TO PREVENT SOUND LEAKAGE AND FIRE STOPPING TAPE/CAULK AT ALL RATED PARTITIONS.
 - ALL MECHANICAL CHASES AND OTHER NOTED CHASES ARE TO EXTEND UP TO THE UNDERSIDE OF THE DECK STRUCTURE ABOVE. ALL PLUMBING CHASES UNLESS OTHERWISE NOTED, SHALL EXTEND ABOVE THE HIGHEST ADJOINING CEILING AND BE BRACED TO STRUCTURE.
 - ALL CONSTRUCTION DESIGNATED TO BE SUPPORTED BY ROOF STRUCTURE SHALL BE SUPPORTED BY TOP CHORD OF STRUCTURAL JOISTS AND NOT FROM THE METAL DECK.
 - COORDINATE WITH MILLWORK DRAWINGS FOR PLACEMENT OF BLOCKING IN WALLS/PARTITIONS. ALL WOOD BLOCKING IS TO BE FIRE RETARDANT TREATED.
 - SEAL THE TOP AND BOTTOM OF WALL AS WELL AS ALL PENETRATIONS WHERE SMOKE PARTITIONS ARE DESIGNATED ON THE LIFE SAFETY PLAN TO ELIMINATE THE PASSAGE OF SMOKE.
 - PROVIDE TREATED WOOD BLOCKING AT ALL GRAB BAR LOCATIONS. COORDINATE WITH INTERIOR ELEVATIONS.
 - FIRE CAULK AND SEAL THE TOP AND BOTTOM OF WALL AS WELL AS ALL PENETRATIONS WHERE FIRE BARRIERS ARE DESIGNATED ON THE LIFE SAFETY PLAN TO ELIMINATE THE PASSAGE OF SMOKE.



TYPE 7 (SMOKE BARRIER)		TYPE 6 NON-RATED		TYPE 5 NON-RATED		TYPE 4 NON-RATED		TYPE 3 NOT USED		TYPE 2 NON-RATED		TYPE 1 1-HOUR RATED	
SUFFIX	DETAILS	SUFFIX	DETAILS	SUFFIX	DETAILS	SUFFIX	DETAILS	SUFFIX	DETAILS	SUFFIX	DETAILS	SUFFIX	DETAILS
A	1 LAYER 5/8" GYP. BD. ON EACH SIDE OF 3 5/8" METAL STUDS AT 16" O.C. WITH SOUND ATTENUATION BATTS. EXTEND & SEAL FROM FIN. FLR. TO UNDERSIDE OF DECK ABOVE.	A	1 LAYER 5/8" GYP. BD. ON METAL Z-CHANNELS AND 2" RIGID INSULATION ON CONCRETE TILT-UP PANEL, RE: STRUCTURAL.	A	1 LAYER 5/8" GYP. BD. ON 3 5/8" METAL STUD FRAMING AT 16" O.C. WITH SOUND ATTENUATION BATTS ON 2" RIGID INSULATION ON CONCRETE TILT-UP PANEL W/Z-CHANNELS @ 24" O.C., RE: STRUCTURAL.	A	1 LAYER 5/8" GYP. BD. ON ONE SIDE OF 3 5/8" METAL STUDS AT 16" O.C. WITH SOUND ATTENUATION BATTS. EXTEND STUDS FROM FIN. FLR. TO BOTTOM OF DECK. EXTEND GYP. BD. 6" ABOVE CEILING.	-	-	A	1 LAYER 5/8" GYP. BD. ON EACH SIDE OF 3 5/8" METAL STUDS AT 16" O.C. WITH SOUND ATTENUATION BATTS. EXTEND FROM FIN. FLR. TO DECK.	A	1 LAYER 5/8" TYPE 'X' GYP. BD. ON EACH SIDE OF 3 5/8" METAL STUDS AT 16" O.C. WITH SOUND ATTENUATION BATTS. EXTEND & SEAL FROM FIN. FLR. TO STRUCTURAL DECK ABOVE (ONE HOUR FIRE RATING - UL# L419)
-	-	-	-	-	-	-	-	-	-	B	1 LAYER 3/8" GYP. BD. ON EACH SIDE OF 6" METAL STUDS AT 16" O.C. WITH SOUND ATTENUATION BATTS. EXTEND FROM FIN. FLR. TO DECK.	B	1 LAYER 5/8" TYPE 'X' GYP. BD. ON EACH SIDE OF 3 5/8" METAL STUDS AT 16" O.C. WITH SOUND ATTENUATION BATTS. EXTEND & SEAL FROM FIN. FLR. TO STRUCTURAL DECK ABOVE (ONE HOUR FIRE RATING - UL# L419)
-	-	-	-	-	-	-	-	-	-	C	1 LAYER 5/8" MOISTURE RESISTANT GYP. BD. ON EACH SIDE OF 3 5/8" METAL STUDS AT 16" O.C. WITH SOUND ATTENUATION BATTS. EXTEND FROM FIN. FLR. TO DECK.	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-

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