

CONCESSION / RESTROOM BUILDING

GIRLS SOFTBALL RENOVATIONS AT YOUTH SPORTS COMPLEX

407 W X ST. CITY OF DEER PARK, TEXAS

PROJECT TEAM

ARCHITECT

MODE DESIGN COMPANY
1102 S. AUSTIN AVE STE 103
GEORGETOWN, TX 78626
512 | 733-1150
RYAN HANSANUWAT
RYAN@MODEDC.US

CIVIL ENGINEER

HALFF ASSOCIATES
2 SIERRA WAY ST
GEORGETOWN, TX 78626
512 | 869-0045

STRUCTURAL ENGINEER

ENGINEERING 360
2851 JOE DIMAGGIO BLVD STE 22
ROUND ROCK, TX 78665
512 | 244-1966

MECHANICAL, ELECTRICAL, PLUMBING ENGINEER

HENDRIX CONSULTING ENGINEER
115 E MAIN ST
ROUND ROCK, TX 78664
512 | 218-0060

SHEET INDEX

ARCHITECTURE

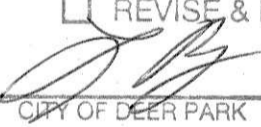
A-0.0	COVER SHEET
A-0.1	ACCESSIBILITY DIAGRAMS
A-0.2	ABBREVIATIONS & NOTES
A-1.1	FLOOR PLAN
A-1.2	REFLECTED CEILING PLAN
A-1.3	ROOF PLAN
A-2.0	EXTERIOR ELEVATIONS
A-3.0	BUILDING SECTIONS
A-3.1	WALL SECTIONS
A-4.0	ENLARGED PLANS / INTERIOR ELEVATIONS
A-5.0	DETAILS
A-6.0	DOOR SCHEDULE/ DETAILS



1102 | s austin ave, suite 103
georgetown, tx 78626
ryan@modedc.us | www.modedc.us
+ 1 512 733 1150



Ryan Hansanuwat
8/10/2017

<input checked="" type="checkbox"/>	APPROVED
<input type="checkbox"/>	APPROVED AS NOTED
<input type="checkbox"/>	DISAPPROVED
<input type="checkbox"/>	REVISE & RESUBMIT
	AUG 14 2017
CITY OF DEER PARK	DATE

CONCESSION / RESTROOM BUILDING

GIRLS SOFTBALL RENOVATIONS AT YOUTH SPORTS COMPLEX

407 WX ST. CITY OF DEER PARK, TEXAS

PROJECT PHASE
BID - 8/3/17
REVISIONS

PROJECT NUMBER
16123-00
DATE ISSUED
8/10/2017
SHEET TITLE
COVER SHEET

CITY OF DEER PARK
Date Received
AUG 11 2017
ENGINEERING DEPARTMENT

SHEET NUMBER
A-0.0

CONCESSION / RESTROOM BUILDING

GIRLS SOFTBALL RENOVATIONS AT YOUTH SPORTS COMPLEX
407 W X ST. CITY OF DEER PARK, TEXAS

PROJECT PHASE
BID - 8/3/17

REVISIONS

APPROVED AS NOTED
DISAPPROVED
REVISE & RESUBMIT

APPROVED
APPROVED AS NOTED
DISAPPROVED
REVISE & RESUBMIT
CITY OF DEER PARK
AUG 14 2017
DATE

PROJECT NUMBER
16123-00

DATE ISSUED
8/10/2017

SHEET TITLE
ACCESSIBILITY DIAGRAMS

SHEET NUMBER
A-0.1

CITY OF DEER PARK
Date Received
AUG 11 2017
ENGINEERING DEPARTMENT

GENERAL

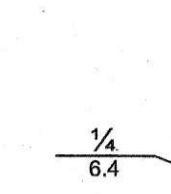


Figure 303.2 Vertical Change in Level

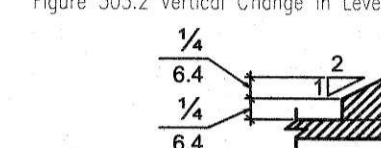


Figure 303.3 Beveled Change in Level

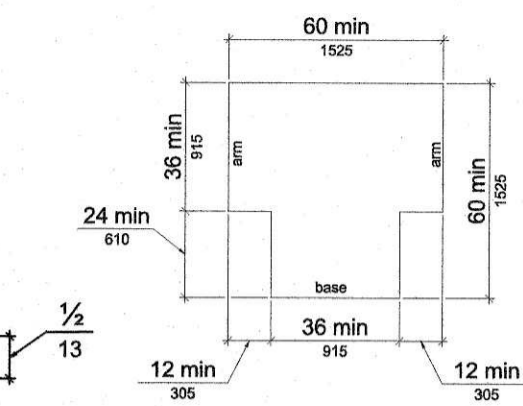


Figure 304.3.2 T-Shaped Turning Space

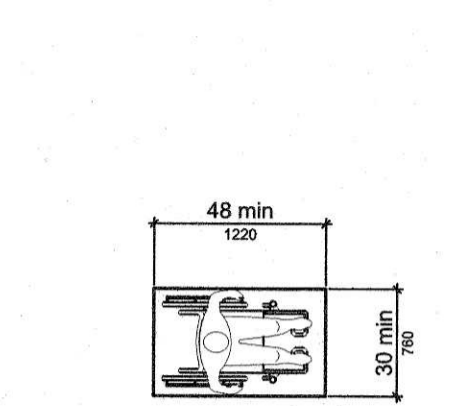


Figure 305.3 Clear Floor or Ground Space

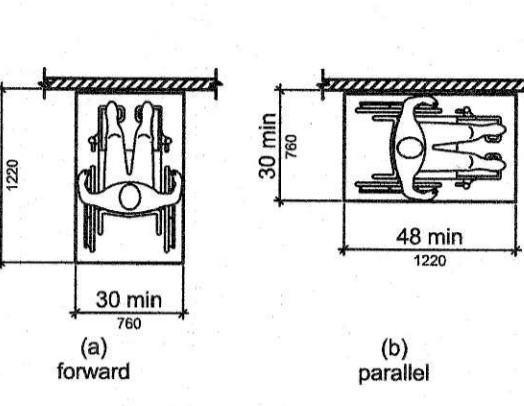


Figure 305.5 Position of Clear Floor or Ground Space

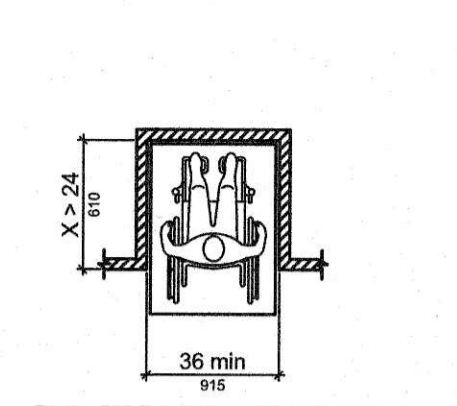


Figure 305.7.1 Maneuvering Clearance in an Alcove, Forward Approach

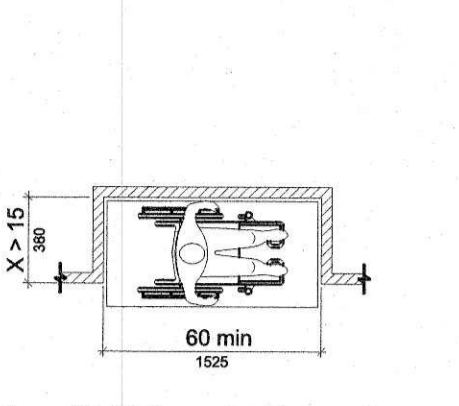


Figure 305.7.2 Maneuvering Clearance in an Alcove, Parallel Approach

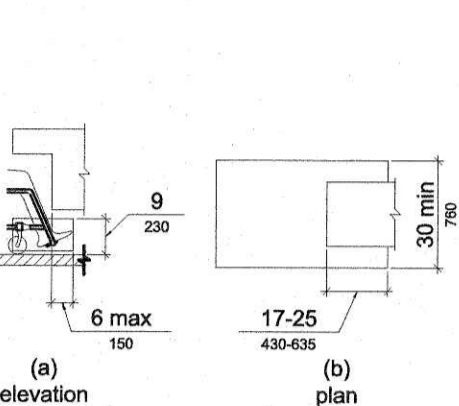


Figure 306.2 Toe Clearance

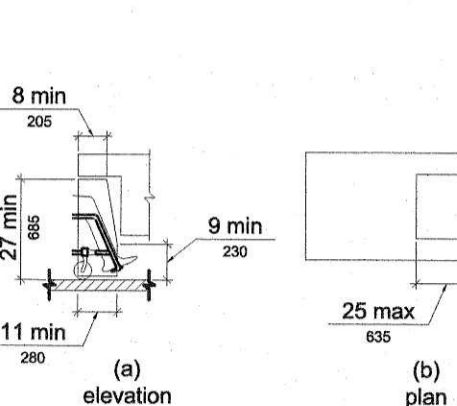


Figure 306.3 Knee Clearance

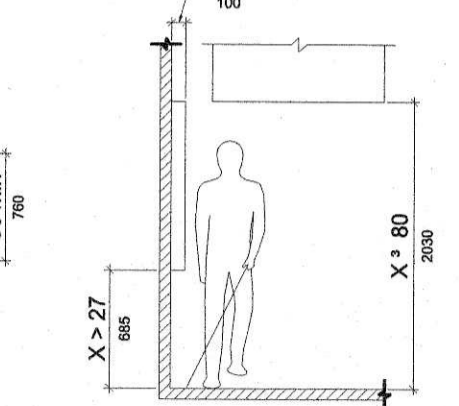


Figure 307.2 Limits of Protruding Objects

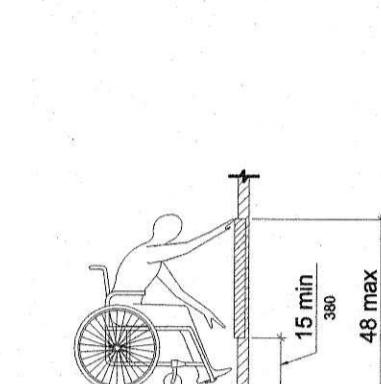


Figure 308.2.2 Obstructed High Forward Reach

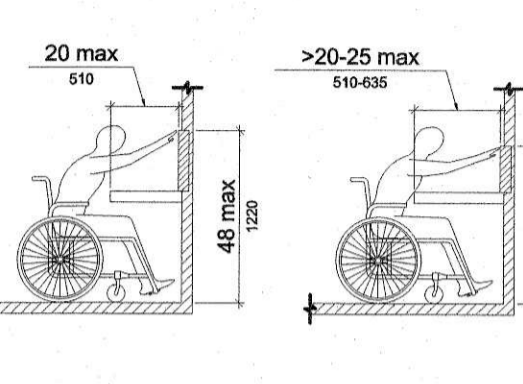


Figure 308.3.1 Unobstructed Side Reach

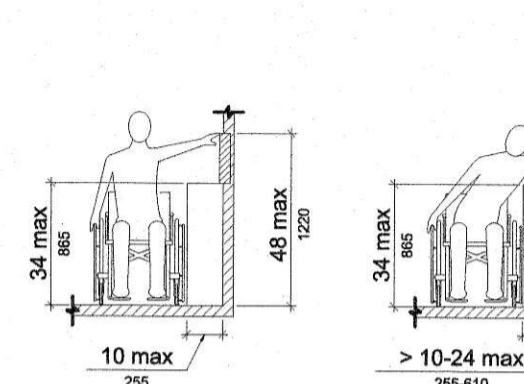


Figure 308.3.2 Obstructed High Side Reach

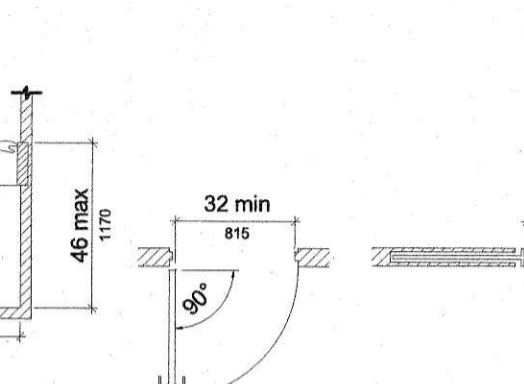


Figure 404.2.3 Clear Width of Doorways

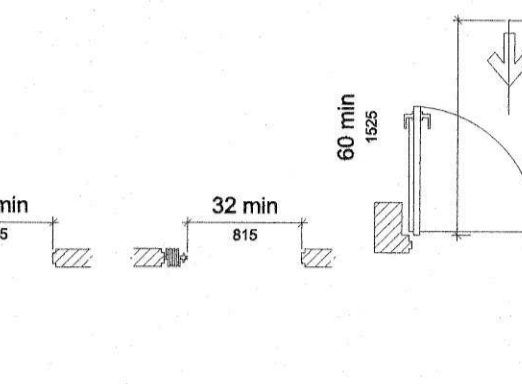


Figure 404.2.4.3 Maneuvering Clearances at Recessed Doors and Cotes

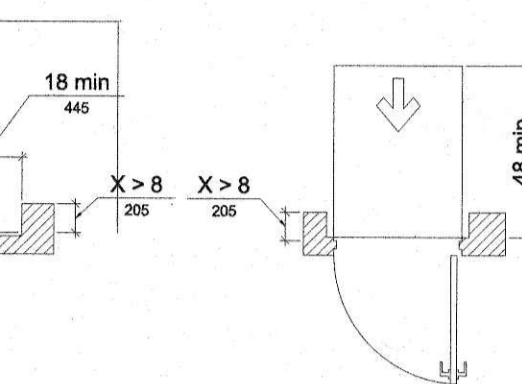


Figure 404.2.6 Doors in Series and Cotes in Series

RAMP AND STAIRS

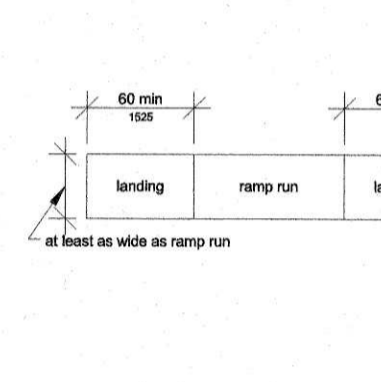


Figure 405.7 Ramp Landings

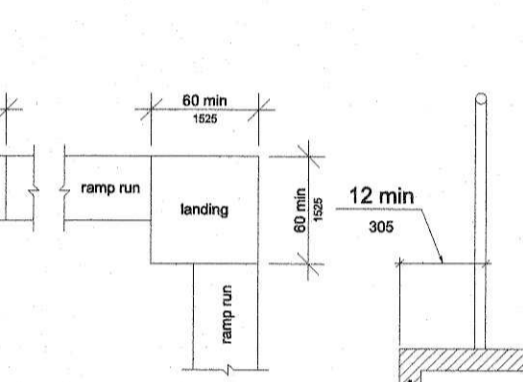


Figure 405.9.1 Extended Floor or Ground Surface Edge Protection

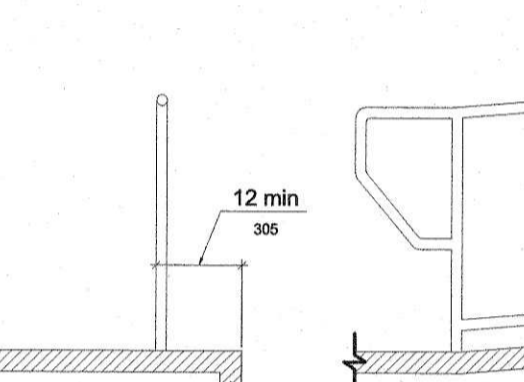


Figure 405.9.2 Curb or Barrier Edge Protection

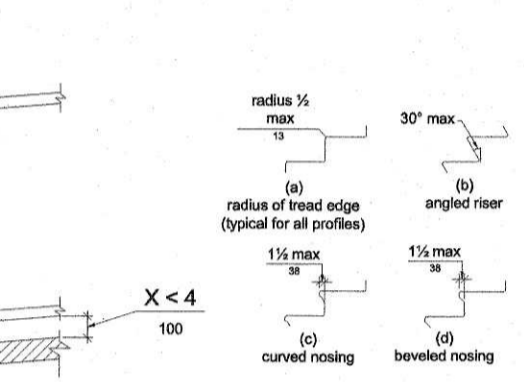


Figure 504.5 Stair Nosings

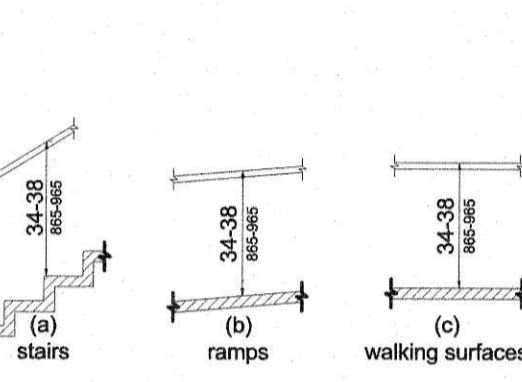


Figure 505.4 Handrail Height

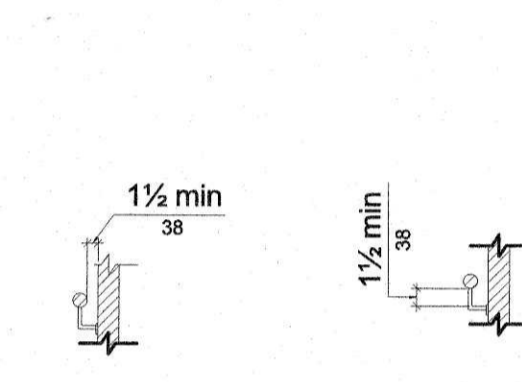


Figure 505.5 Handrail Clearance

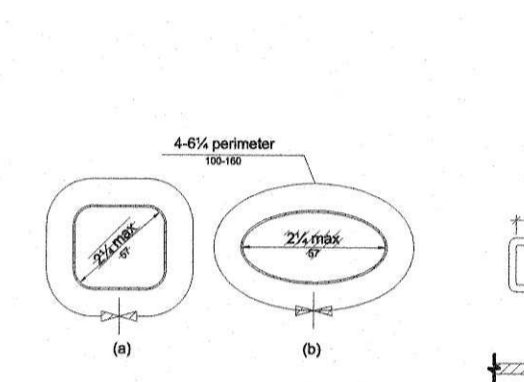


Figure 505.6 Horizontal Projections Below Gripping Surface

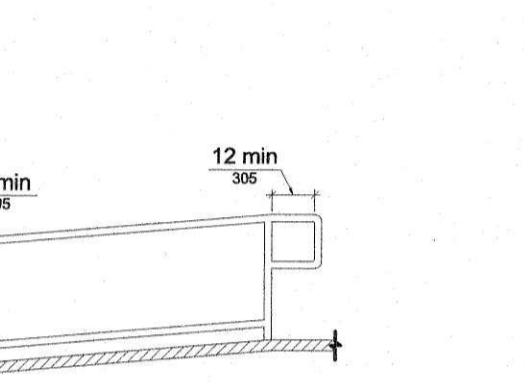


Figure 505.7.2 Handrail Non-Circular Cross Section

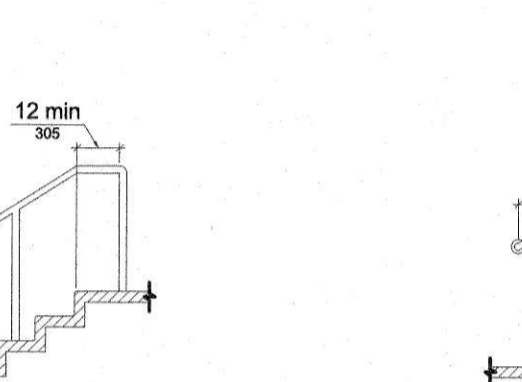


Figure 505.10.1 Top and Bottom Handrail Extension of Ramps

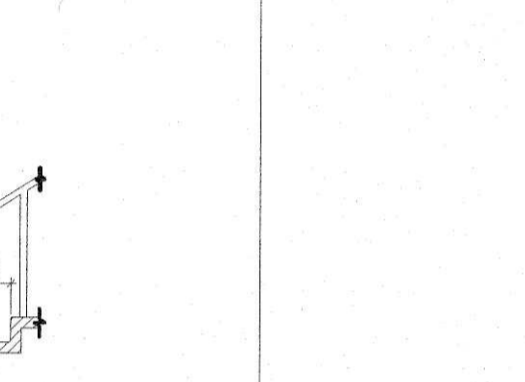


Figure 505.10.2 Top Handrail Extension at Stairs

TOILET AND BATHING ROOMS

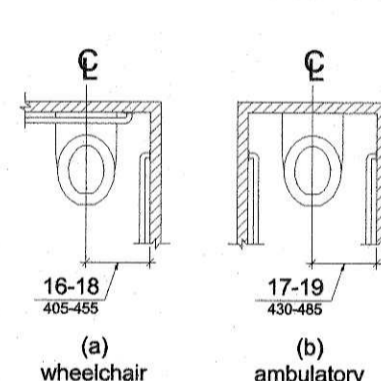


Figure 604.2 Water Closet Location

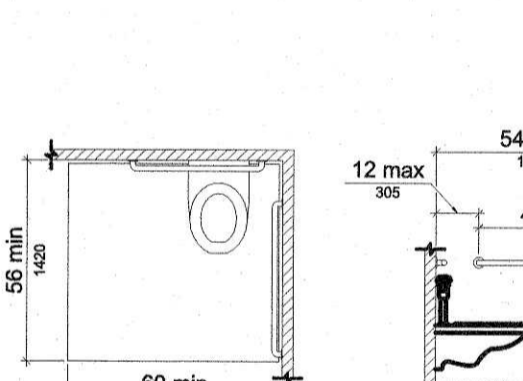


Figure 604.3.1 Size of Clearance at Water Closets

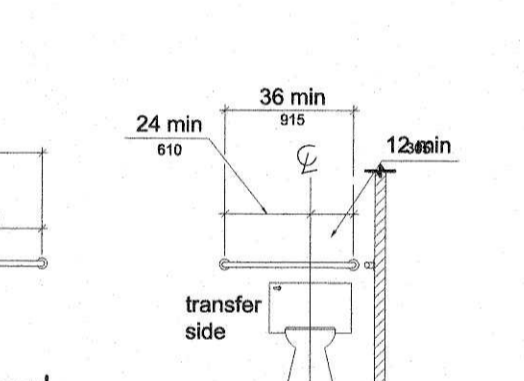


Figure 604.5.1 Side Wall Grab Bar at Water Closets

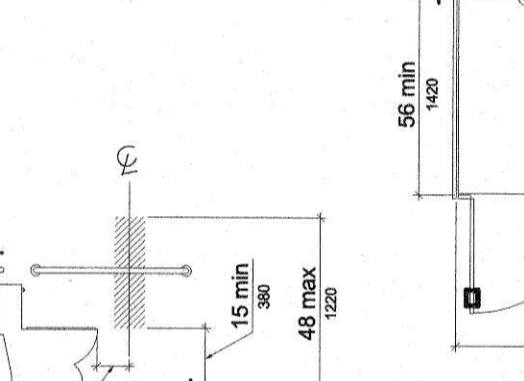


Figure 604.5.2 Rear Wall Grab Bar at Water Closets

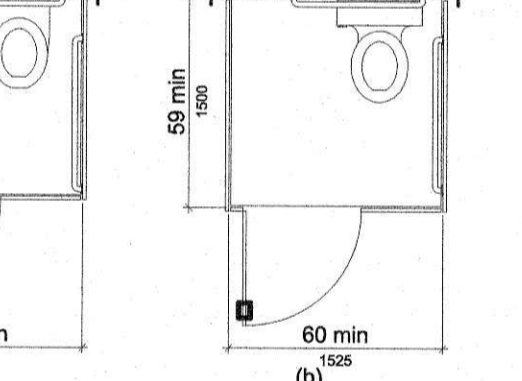


Figure 604.7 Dispenser Outlet Location

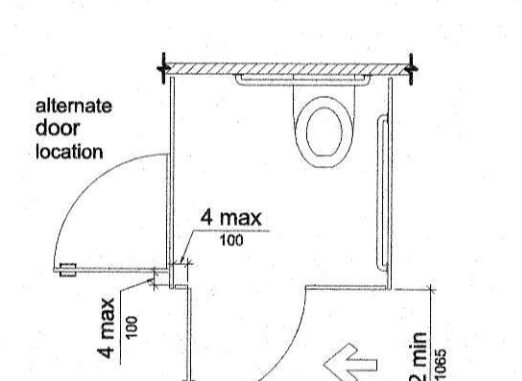


Figure 604.8.1.1 Size of Wheelchair Accessible Toilet Compartment

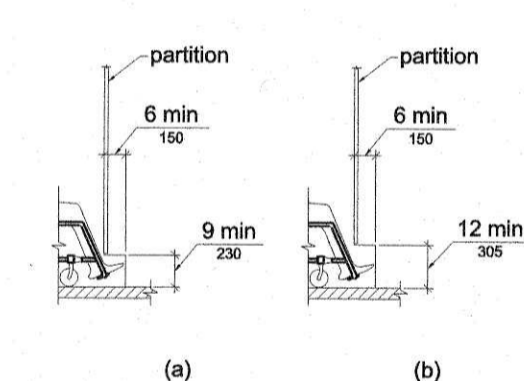


Figure 604.8.1.2 Wheelchair Accessible Toilet Compartment Doors

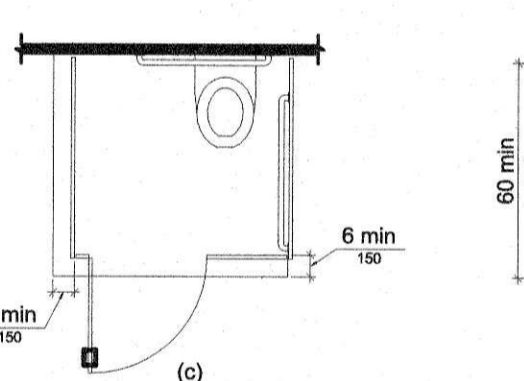


Figure 604.8.1.4 Wheelchair Accessible Toilet Compartment Toe Clearance

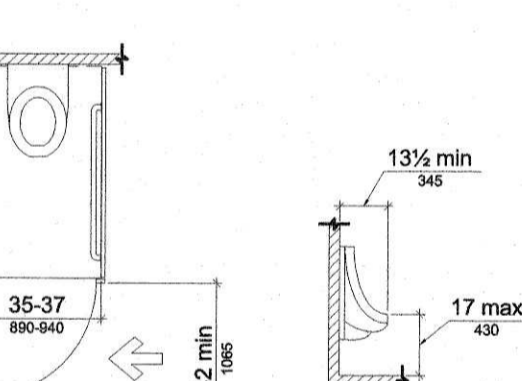


Figure 604.8.2 Ambulatory Accessible Toilet Compartment

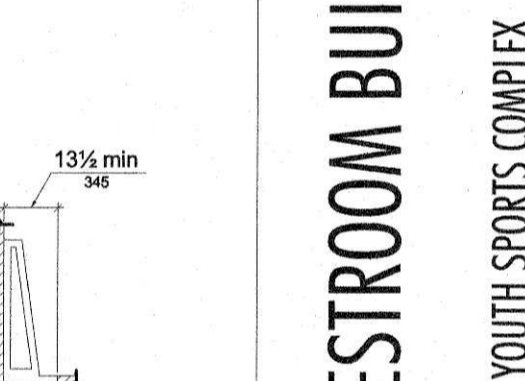


Figure 605.2 Height and Depth of Urinals

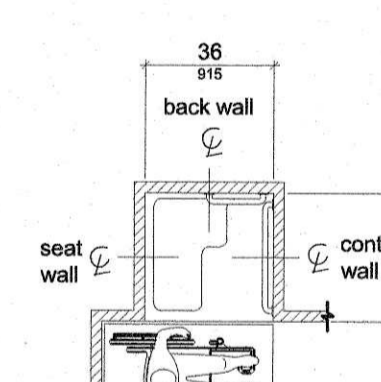


Figure 608.2.1 Transfer Type Shower Compartment Size and Clearance

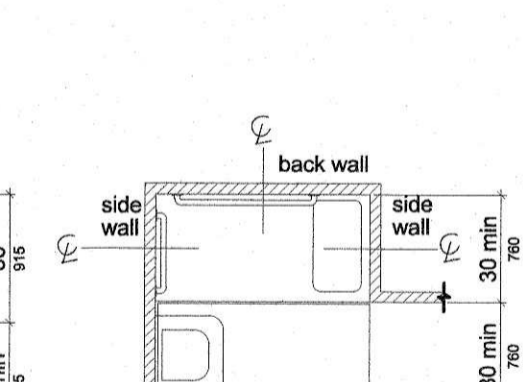


Figure 608.2.2 Standard Roll-In Type Shower Compartment Size and Clearance

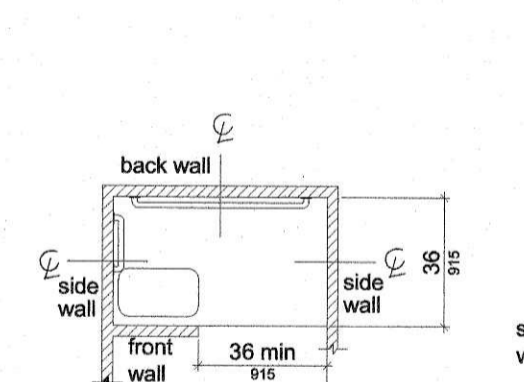


Figure 608.2.3 Alternate Roll-In Type Shower Compartment Size and Clearance

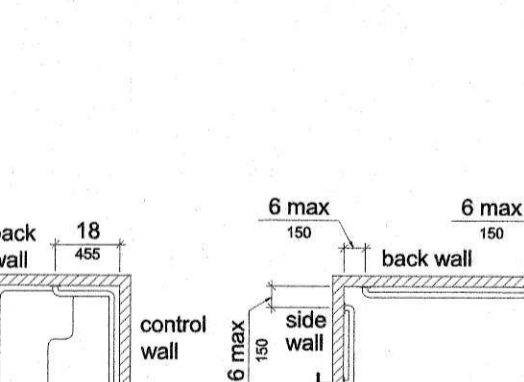


Figure 608.3.1 Grab Bars for Transfer Type Showers

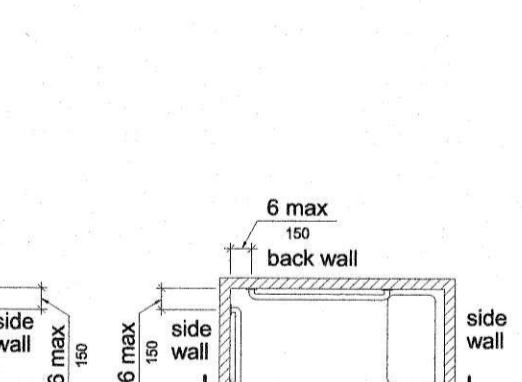


Figure 608.3.2 Grab Bars for Standard Roll-In Type Showers

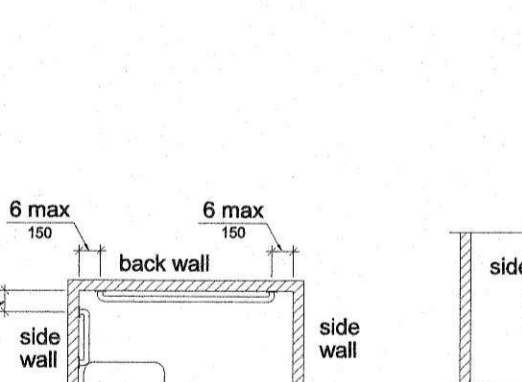


Figure 608.3.3 Grab Bars for Alternate Roll-In Type Showers

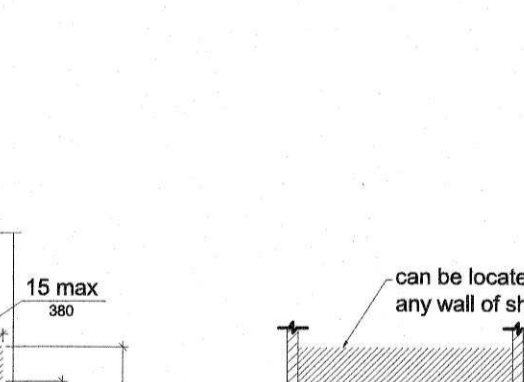


Figure 608.5.1 Transfer Type Shower Compartment Control Location

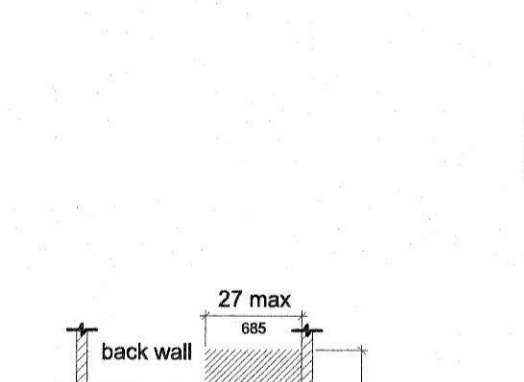


Figure 608.5.2 Standard Roll-In Type Shower Compartment Control Location

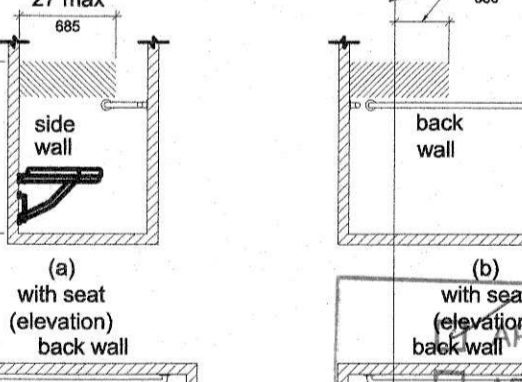


Figure 608.5.3 Alternate Roll-In Type Shower Compartment Control Location

SIGNAGE

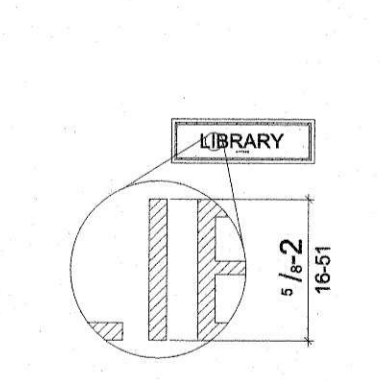


Figure 703.2.5 Height of Raised Characters

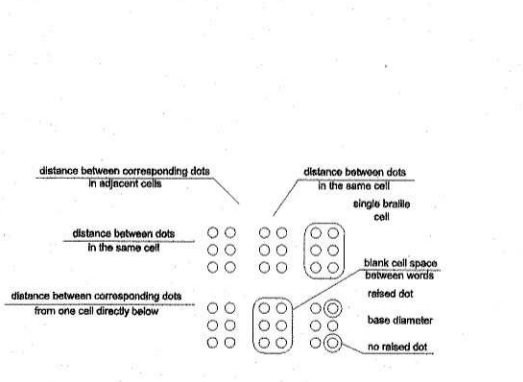


Figure 703.3.1 Braille Measurement

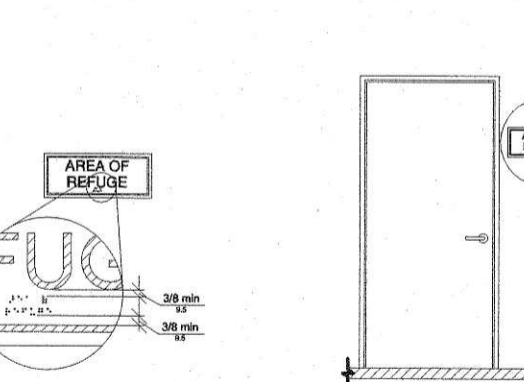


Figure 703.3.2 Position of Braille

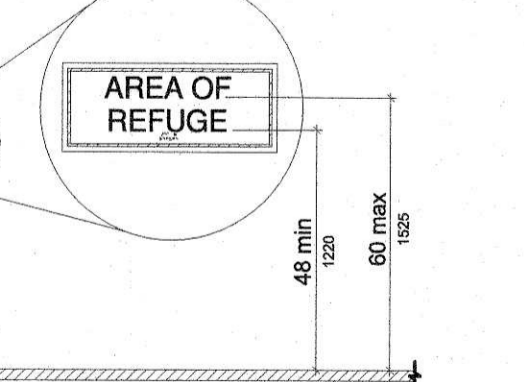


Figure 703.4.1 Height of Tactile Characters Above Finish Floor or Ground

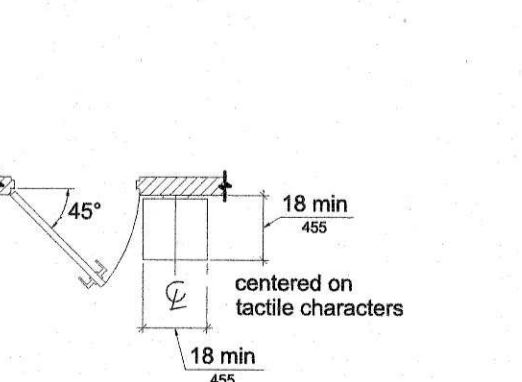


Figure 703.4.2 Location of Tactile Signs at Doors

MISC.

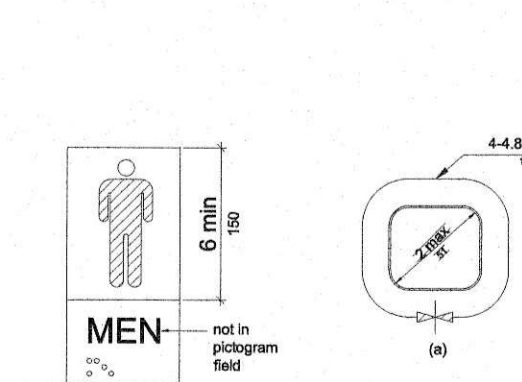


Figure 703.6.1 Pictogram Field

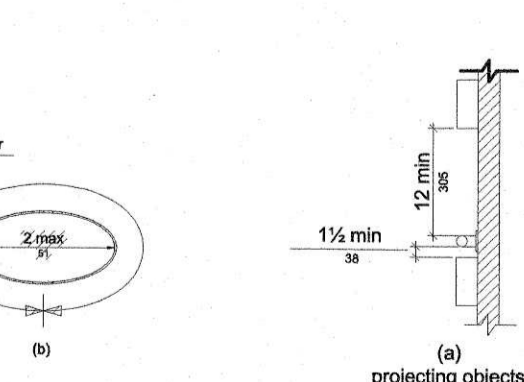


Figure 609.2.2 Grab Bar Non-Circular Cross Section

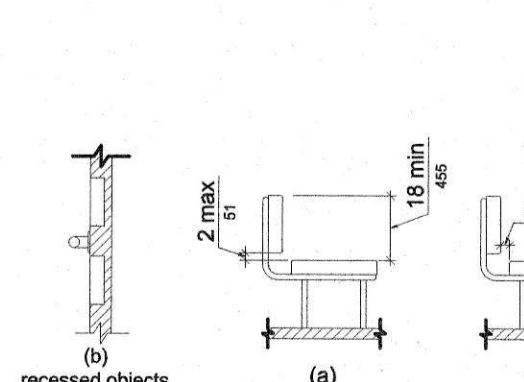


Figure 609.3 Spacing of Grab Bars

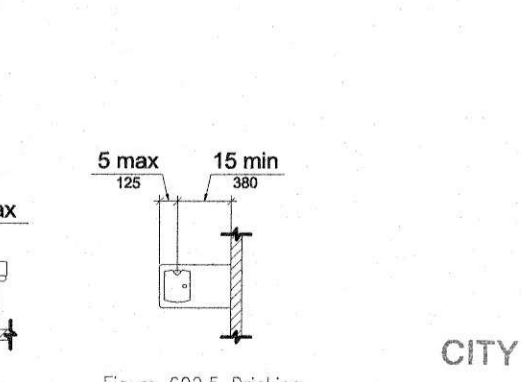


Figure 903.4 Bench Back Support

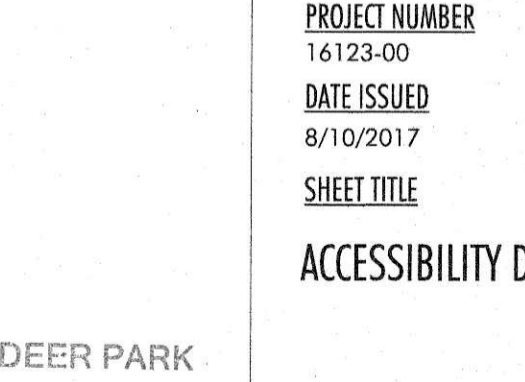


Figure 602.5 Drinking Fountain Spout Location

FLOOR PLAN LEGEND

	NEW WALL
	EXISTING WALL TO REMAIN
	ITEMS TO BE DEMOLISHED
	CENTERLINE
	COLUMN GRID
	PARTITION TYPE
	WINDOW TYPE
	DOOR NUMBER
	ROOM NAME AND NUMBER
	ELEVATION DATUM POINT
	ELEVATION VIEW
	SECTION/DETAIL
	ENLARGED PLAN
	REVISION KEY
	REVISION CLOUD
	NORTH ARROW

ARCHITECTURE ABBREVIATIONS

A/C	AIR CONDITIONING	GA	GLAZE	PLAM	PLASTIC LAMINATE
ACC	ACCESS	GALV	GALVANIZED	PLMB	PLUMBING
ACP	ACOUSTICAL CEILING PANEL	GB	GRAB BAR	PLYWD	PLYWOOD
ADDL	ADDITIONAL	GC	GENERAL CONTRACTOR	PNL	PANEL
ADDM	ADDENDUM	GD	GRADE	PRFAB	PREFABRICATED
ADH	ADHESIVE	GEN	GENERAL	REFIN	REFINISHED
ADJ	ADJUSTABLE	GL	GLASS/GLAZING	PRF	PREFORMED
AFF	ABOVE FINISHED FLOOR	GLB	GLASS BLOCK	PSF	POUNDS PER SQUARE FOOT
AGG	AGGREGATE	GTR	GUTTER	PSI	POUNDS PER SQUARE INCH
ALT	ALTERNATE	GVL	GRAVEL	PT	PAINT
ALUM	ALUMINUM	GYP	GYP SUM	PVC	POLYVINYL CHLORIDE
APPROX	APPROXIMATELY	GYP BD	GYP SUM BOARD		
ARCH	ARCHITECT/ARCHITECTURAL			R	RADIUS
ASPH	ASPHALT	HB	HOSE BIB	RA	RETURN AIR
AUTO	AUTOMATIC	HC	HOLLOW CORE	RD	ROOF DRAIN
AV	AUDIO VISUAL	HDP	HANDICAP	RE BAR	REINFORCING BARS
		HDR	HEADER	RECP	RECEPTACLE
BD	BOARD	HDWD	HARDWOOD	REF	REFERENCE
BL	BUILDING LINE	HDWR	HARDWARE	REFR	REFRIGERATOR
BLDG	BUILDING	HM	HOLLOW METAL	REG	REGISTER
BLVD	BOULEVARD	HORZ	HORIZONTAL	REINF	REINFORCED
BM	BEAM	HT	HEIGHT	REQD	REQUIRED
B.M.	BENCH MARK	HTG	HEATING	RET	RETURN
BRK	BRICK	HVAC	HEATING VENTILATION	RH	RIGHT HAND
BRZ	BRONZE		AIR CONDITIONING	RM	ROOM
BMT	BASEMENT	HW	HOT WATER	RO	ROUGH OPENING
BTU	BRITISH THERMAL UNIT			ROW	RIGHT OF WAY
BVL	BEVEL/BEVELED	IBC	INTERNATIONAL BUILDING CODE	RT	RUBBER TILE
				S	SOUTH
CAB	CABINET	IN	INCH	SBC	STANDARD BUILDING CODE
CB	CATCH BASIN	INCL	INCLUDED	SC	SOLID CORE
C/C	CENTER TO CENTER	INSUL	INSULATION	SCHED	SCHEDULE
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	INT	INTERIOR	SCN	SCREEN
CI	CAST IRON	JAN	JANITOR	SEAL	SEALANT
CG	CORNER GUARD	JBCX	JUNCTION BOX	SHTH	SHEATHING
CLG	CEILING	JCT	JUNCTION	SHT	SHEET
CLK	CAULK/CAULKING	JST	JOIST	SH	SHINGLE HUNG
CLO	CLOSET	JT	JOINT	SIM	SIMILAR
CLR	CLEAR/CLEARANCE			SLV	SLEEVE
CMU	CONCRETE MASONRY UNIT	KIT	KITCHEN	SPEC	SPECIFICATIONS
CND	CONDUIT	KPL	KICKPLATE	SQ	SQUARE
COL	COLUMN	KO	KNOCK OUT	SQ FT	SQUARE FEET
COMP	COMPOSITION/COMPOSITE			SST	STAINLESS STEEL
CONC	CONCRETE	LAB	LABORATORY	STD	STANDARD
CONF	CONFERENCE	LAM	LAMINATE	STL	STEEL
CONN	CONNECTION	LAV	LAVATORY	STOR	STORAGE
CONST	CONSTRUCTION	LH	LEFT HAND	STRUC	STRUCTURAL
CSMT	CASEMENT	LL	LIVE LOAD	SUSP	SUSPENDED
		LIT	LIGHT	SYM	SYMMETRICAL
DEPT	DEPARTMENT	LWT	LIGHTWEIGHT	SYN	SYNTHETIC
DH	DOUBLE HUNG			SYS	SYSTEM
DIA	DIAMETER	MAS	MASONRY	TAN	TANGENT
DIM	DIMENSION	MATL	MATERIAL	TAS	TEXAS ACCESSIBILITY STANDARDS
DN	DOWN	MAX	MAXIMUM	TECH	TECHNICAL
DS	DOWNSPOUT	MB	MACHINE BOLT	TELE	TELEPHONE
DW	DISHWASHER	MECH	MECHANICAL	T&G	TONGUE AND GROOVE
DWG	DRAWING	MEMB	MEMBRANE	THK	THICK
		MEZZ	MEZZANINE	THRES	THRESHOLD
E	EAST	MFR	MANUFACTURER	TILT	TILE
EA	EACH	MH	MAN HOLE	TOB	TOP OF BLOCK
EB	EXPANSION BOLT	MICRO	MICROWAVE	TOC	TOP OF CURB
EJ	EXPANSION JOINT	MIN	MINIMUM	TOM	TOP OF MASONRY
EL	ELEVATION	MIR	MIRROR	TOP	TOP OF PARAPET
ELEC	ELECTRIC/ELECTRICAL	MISC	MISCELLANEOUS	TOPL	TOP OF PLATE
ELEV	ELEVATION/ELEVATOR	MLWK	MILLWORK	TOS	TOP OF STEEL
EMER	EMERGENCY	MO	MASONRY OPENING	TOSL	TOP OF SLAB
ENC	ENCLOSURE	MOD	MODULAR	TOW	TOP OF WALL
ENT	ENTRANCE	MTD	MOUNTED	TRANS	TRANSFORMER
EQ	EQUAL	MTL	METAL	TS	TUBE STEEL
EQPT	EQUIPMENT	MULT	MULTIPLE	TV	TELEVISION
ESTM	ESTIMATE			TYP	TYPICAL
EWC	ELECTRIC WATER COOLER	N	NORTH	URC	UNIFORM BUILDING CODE
EWH	ELECTRIC WATER HEATER	NAT	NATURAL	UNFIN	UNFINISHED
EXC	EXCAVATE	NIC	NOT IN CONTRACT	UNO	UNLESS NOTED OTHERWISE
EXF	EXHAUST FAN	NOM	NOMINAL	UR	URINAL
EXH	EXHAUST	NTS	NOT TO SCALE	VB	VAPOR BARRIER
EXT	EXTERIOR			VAR	VARIABLES
FA	FIRE ALARM	OC	ON CENTER	VERT	VERTICAL
FBD	FIBER BOARD	OCEW	ON CENTER EACH WAY	VENT	VENTILATION
FBO	FURNISHED BY OWNER	OD	OUTSIDE DIAMETER	VOL	VOLUME
FBRK	FIRE BRICK	OH	OVERHEAD	W/W	WITH
FD	FLOOR DRAIN	OP	OPAQUE	W/O	WITHOUT
FDC	FIRE DEPARTMENT CONNECTION	OPNG	OPENING	WD	WOOD
FE	FIRE EXTINGUISHER	OPP	OPPOSITE	WDW	WINDOW
FEC	FIRE EXTINGUISHER CABINET	OPP HD	OPPOSITE HAND	WT	WEIGHT
FF	FINISH FLOOR	ORIG	ORIGINAL	WI	WROUGHT IRON
FFE	FINISHED FLOOR ELEVATION	OWJ	OPEN WEB JOIST	YAB	YIELD STRENGTH APPROVED
FFL	FINISHED FLOOR LINE	OZ	OUNCE		
FIN	FINISHED				
FIXT	FIXTURE	PAR	PARALLEL		
FLOUR	FLOURESCENT	PART	PARTITION		
FLR	FLOOR	PART BD	PARTICLE BOARD		
FNDN	FOUNDATION	PC	PRECAST		
FOC	FACE OF CONCRETE	PCF	POUNDS PER CUBIC FOOT		
FOF	FACE OF FINISH	PED	PEDESTAL		
FOM	FACE OF MASONRY	PERIM	PERIMETER		
FOS	FACE OF STUD	PERM	PERMANENT		
FP	FIREPROOF	PERP	PERPENDICULAR		
FPL	FIREPLACE	PFL	POUNDS PER LINEAL FOOT		
FRC	FIRE RESISTANT COATING	PKG	PARKING		
FRT	FIRE RETARDANT	PL	PLATE		
FT	FOOT/FEET	PL	PROPERTY LINE		
FTG	FOOTING	PLAS	PLASTER		
FURR	FURRED/FURRING				
FURN	FURNISHED				

INTERIOR FINISHES ABBREVIATIONS

ACP	ACOUSTICAL CEILING PANEL	PL	PLASTIC LAMINATE	STC	STAINED CONCRETE
CONC	CONCRETE	PT	PAINT	TZ	TERRAZZO
CPT	CARPET/CARPET TILE	QT	QUARRY TILE	VCT	VINYL COMPOSITION TILE
CT	CERAMIC TILE	RAF	RAISED FLOORING	VT	VINYL TILE
F	FURNITURE	RB	RESILIENT BASE	VWC	VINYL WALL COVERING
FAB	FABRIC (FURNITURE)	RES	RESILIENT FLOORING	WD	WOOD VENEER/WOOD BASE/WOOD TRIM
FWC	FABRIC WALLCOVERING	SP	SPECIALTY PRODUCTS	WDFL	WOOD FLOORING
GL	GLASS/GLAZING	SS	SOLID SURFACE	WT	WINDOW TREATMENT
GLB	GLASS BLOCK	ST	STONE/STONE FLOORING		
MTL	METAL				



1102 | s austin ave, suite 103
georgetown, tx 78626
ryan@modedc.us | www.modedc.us
+ 1 512 733 1150



Ryan Hanson
8/10/2017

CONCESSION / RESTROOM BUILDING

GIRLS SOFTBALL RENOVATIONS AT YOUTH SPORTS COMPLEX
407 W X ST. CITY OF DEER PARK, TEXAS

WOOD APPROVED WINDOW
WEIGHT APPROVED AS NOTED WROUGHT IRON
YAB
LI REVISE & RESUBMIT
AUG 14 2017
CITY OF DEER PARK DATE

PROJECT NUMBER
16123-00

DATE ISSUED
8/10/2017

SHEET TITLE
ABBREVIATIONS & NOTES

PROJECT NUMBER
16123-00

DATE ISSUED
8/10/2017

SHEET TITLE
ABBREVIATIONS & NOTES

SHEET NUMBER
A-0.2

CITY OF DEER PARK
Date Received

AUG 11 2017

ENGINEERING DEPARTMENT

GENERAL NOTES TO FLOOR PLAN:

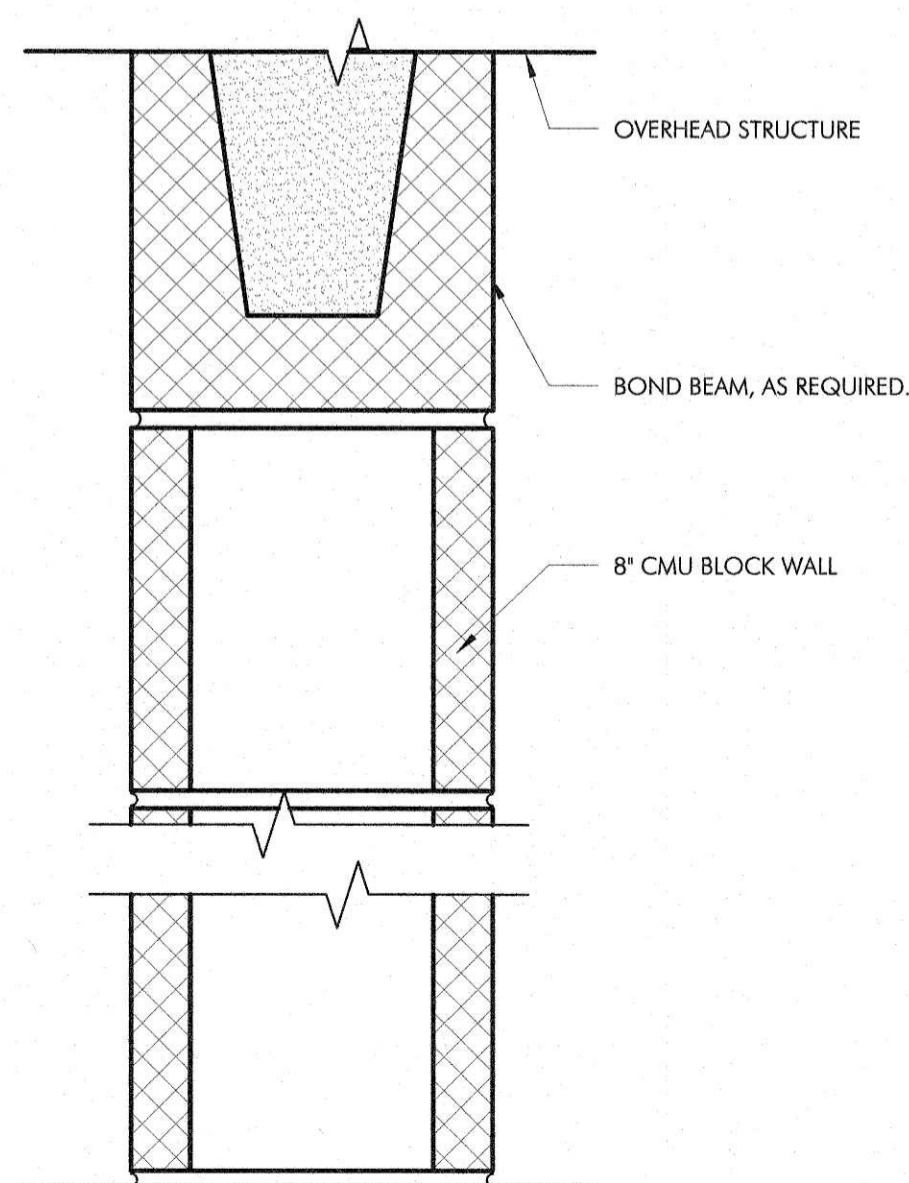
- 1) ALL PARTITIONS ARE TYPE 'A-6', UNLESS NOTED OTHERWISE (U.N.O.).
- 2) DIMENSIONS ARE FROM FACE OF STUD TO FACE OF STUD, U.N.O.
- 3) ANY CONFLICTS FOUND IN CONSTRUCTION DOCUMENTS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION BEFORE ANY WORK BEGINS.
- 4) WHERE DOUBLE GYPSUM BOARD PARTITION ARE IN LINE AND ABUTTS AGAINST A SINGLE GYPSUM BOARD PARTITION, ALIGN SO AS TO HAVE A FLUSH FINISH.
- 5) FLOORING TO BE SEALED CONCRETE THROUGHOUT

KEYNOTES

1	MEDIUM BROOM CONCRETE FINISH THROUGHOUT
2	PROVIDE CONCRETE CONTROL JOINTS AS INDICATED WITH 'CJ' & NO MORE THAN 15'-0" APART THROUGHOUT SLAB
3	FLUSH FLOOR DRAIN. SLOPE SLAB TO DRAIN

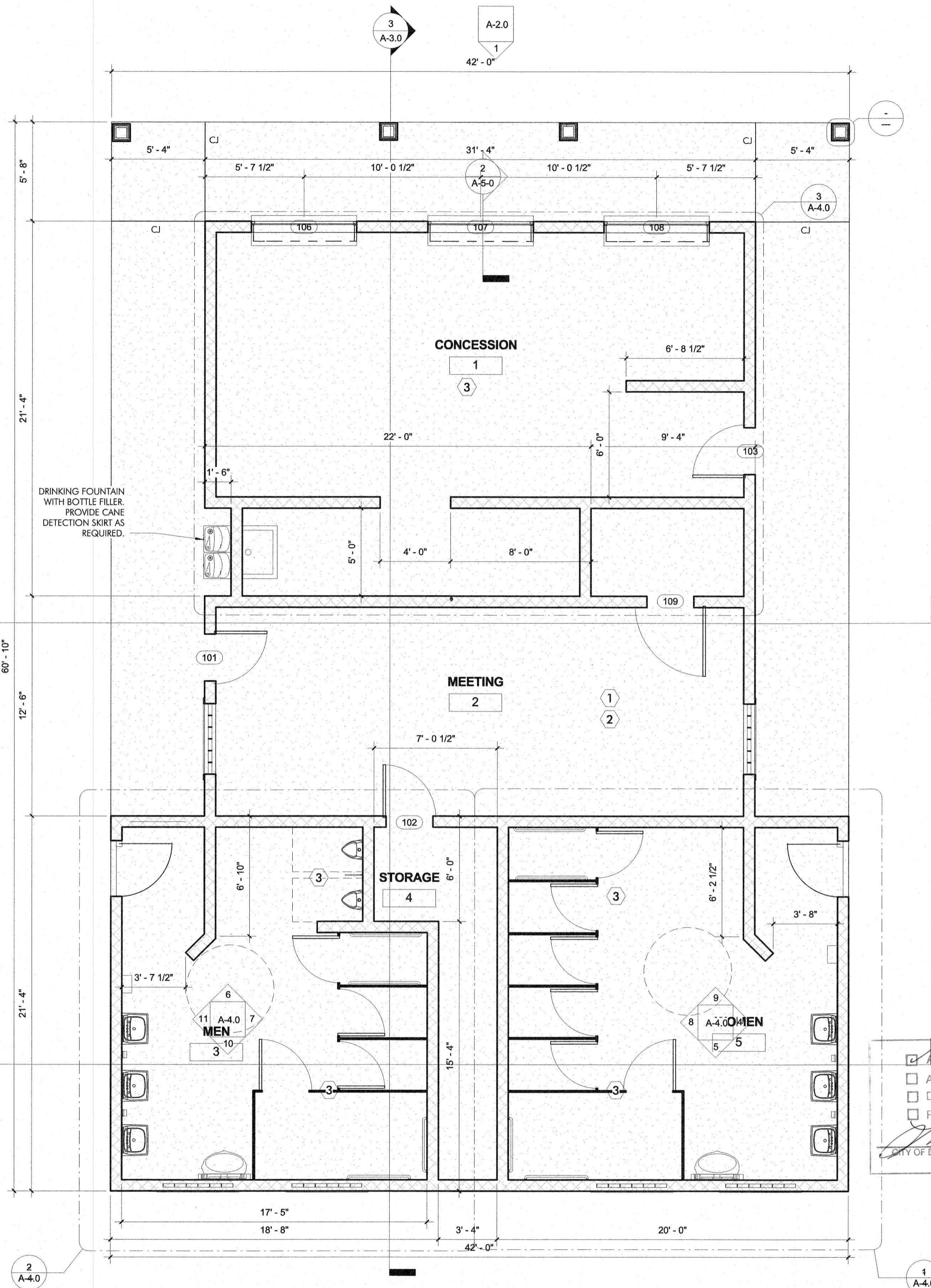
PARTITION TYPE A

DESCRIPTION: 8" CMU BLOCK WALL



2 PARTITION TYPE A
3" = 1'-0"

1 FLOOR PLAN
1/4" = 1'-0"



APPROVED

APPROVED AS NOTED

DISAPPROVED

REVISE & RESUBMIT

[Signature] AUG 14 2017

CITY OF DEER PARK DATE

CITY OF DEER PARK
Date Received
AUG 11 2017
ENGINEERING DEPARTMENT



11021 s austin ave, suite 103
georgetown, tx 78626
ryan@modedc.us | www.modedc.us
+ 1 512 733 1150



[Signature]
8/10/2017

CONCESSION / RESTROOM BUILDING

GIRLS SOFTBALL RENOVATIONS AT YOUTH SPORTS COMPLEX
407 W X ST. CITY OF DEER PARK, TEXAS

PROJECT PHASE
BID - 8/3/17

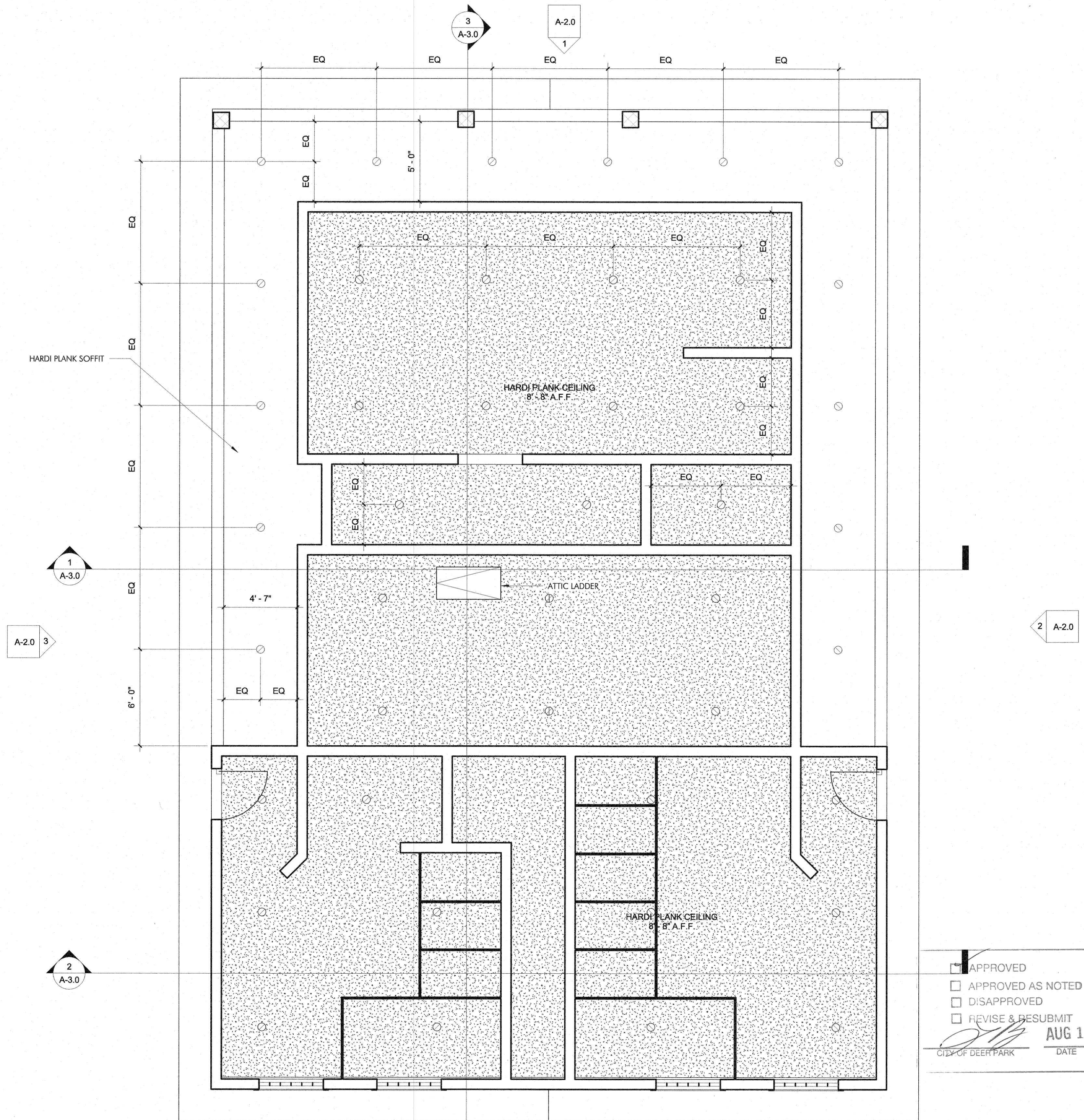
REVISIONS

PROJECT NUMBER
16123-00
DATE ISSUED
8/10/2017
SHEET TITLE
FLOOR PLAN

SHEET NUMBER
A-1.1



Ryan Hansanuwit
8/10/2017



APPROVED
 APPROVED AS NOTED
 DISAPPROVED
 REVISE & RESUBMIT
 CITY OF DEER PARK DATE **AUG 14 2017**

CONCESSION / RESTROOM BUILDING

GIRLS SOFTBALL RENOVATIONS AT YOUTH SPORTS COMPLEX
407 W X ST. CITY OF DEER PARK, TEXAS

PROJECT PHASE
BID - 8/3/17
REVISIONS

PROJECT NUMBER
16123-00
DATE ISSUED
8/10/2017
SHEET TITLE

REFLECTED CEILING PLAN

SHEET NUMBER
A-1.2

1 REFLECTED CEILING PLAN
1/4" = 1'-0"

CITY OF DEER PARK
Date Received
AUG 11 2017
ENGINEERING DEPARTMENT



Ryan Hansanway
8/10/2017

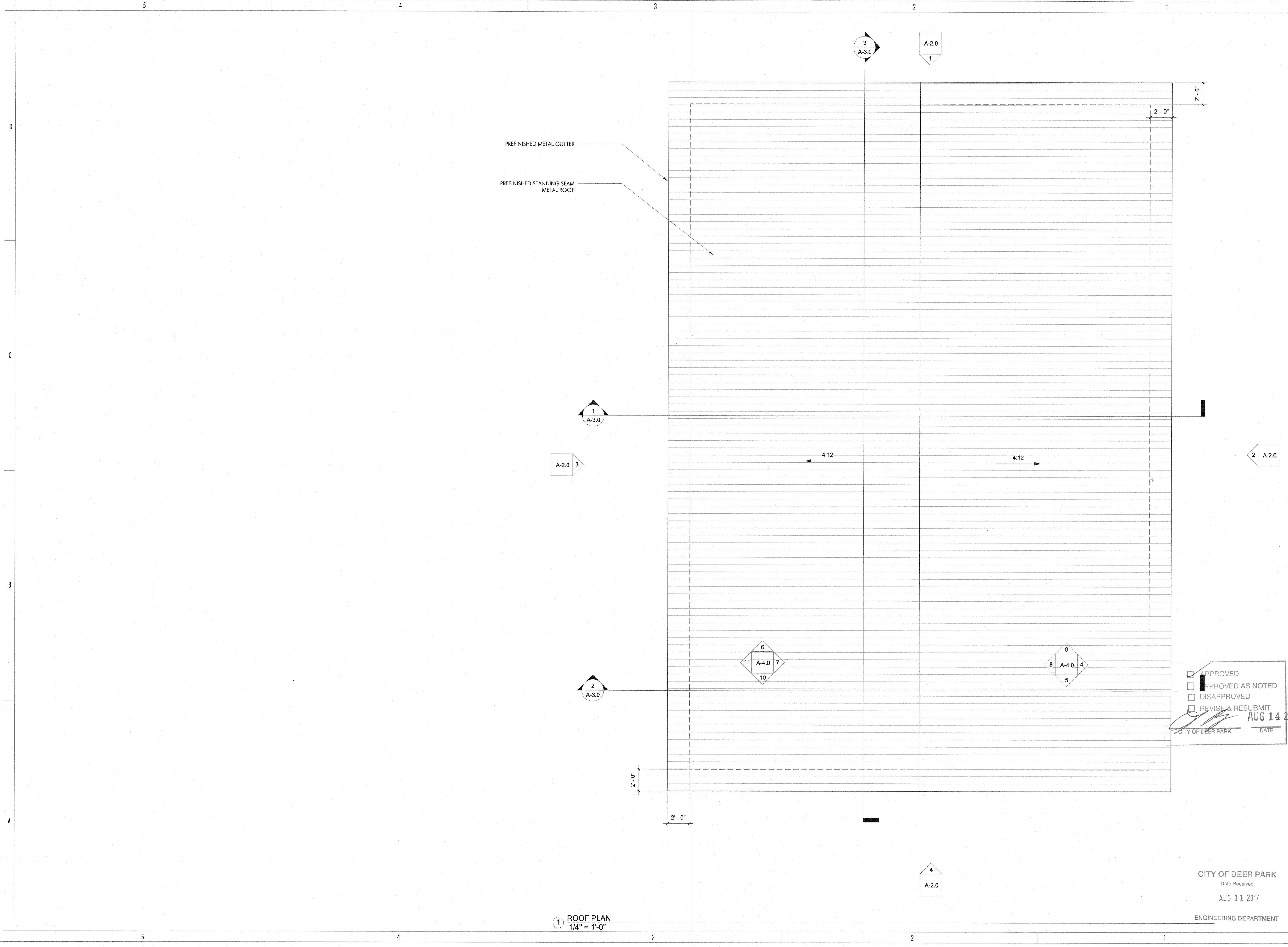
CONCESSION / RESTROOM BUILDING

GIRLS SOFTBALL RENOVATIONS AT YOUTH SPORTS COMPLEX
407 W X ST. CITY OF DEER PARK, TEXAS

PROJECT PHASE
BID - 8/3/17
REVISIONS

PROJECT NUMBER
16123-00
DATE ISSUED
8/10/2017
SHEET TITLE
ROOF PLAN

SHEET NUMBER
A-1.3



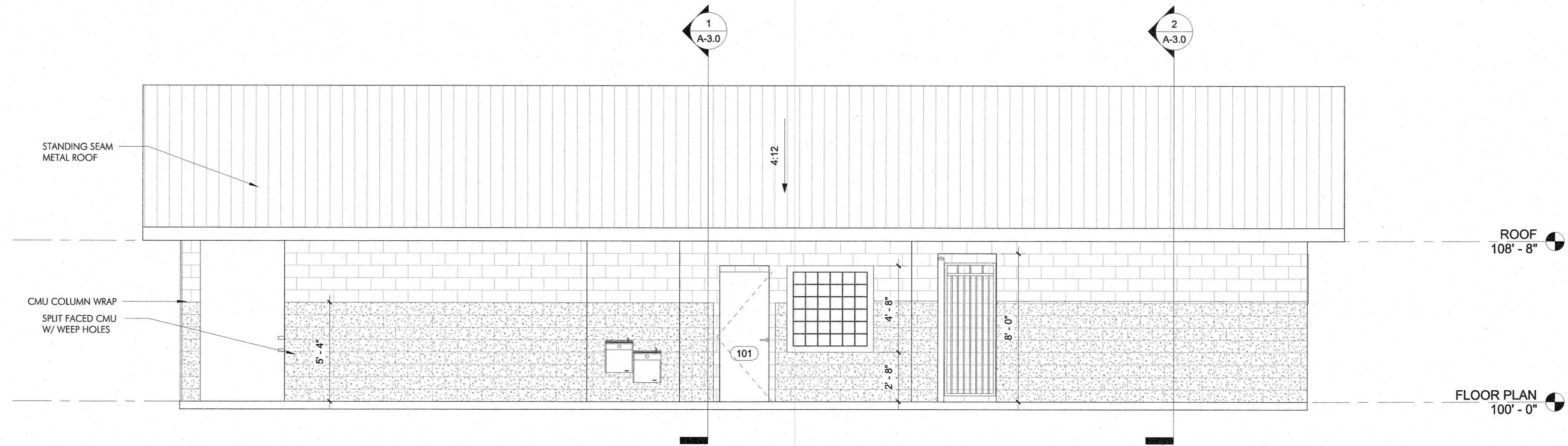
1 ROOF PLAN
1/4" = 1'-0"

APPROVED
 APPROVED AS NOTED
 DISAPPROVED
 REVISE & RESUBMIT
 [Signature]
 CITY OF DEER PARK DATE
 AUG 14 2017

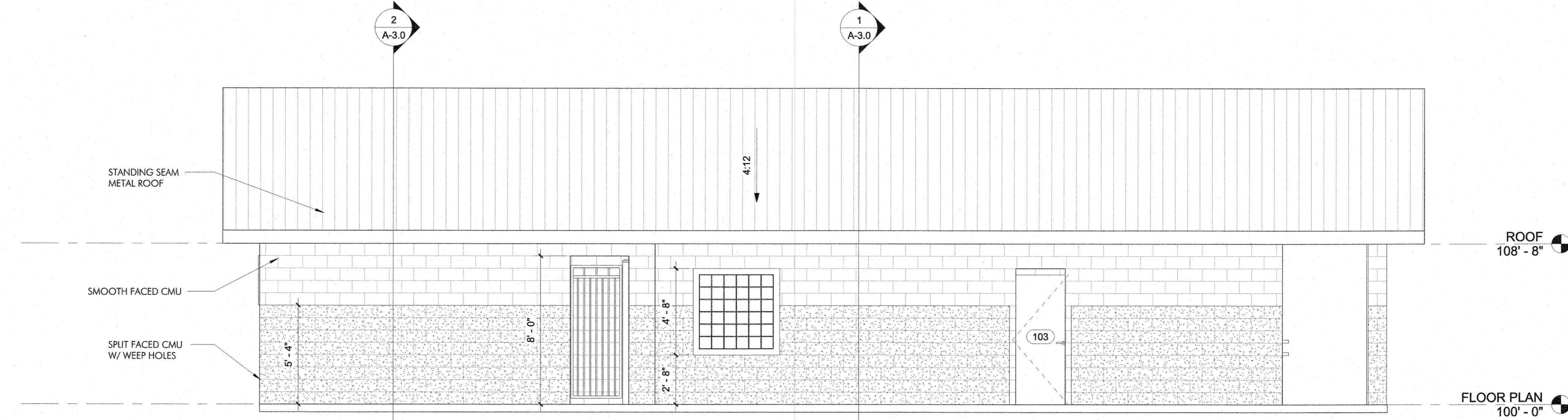
CITY OF DEER PARK
Date Received
AUG 11 2017
ENGINEERING DEPARTMENT



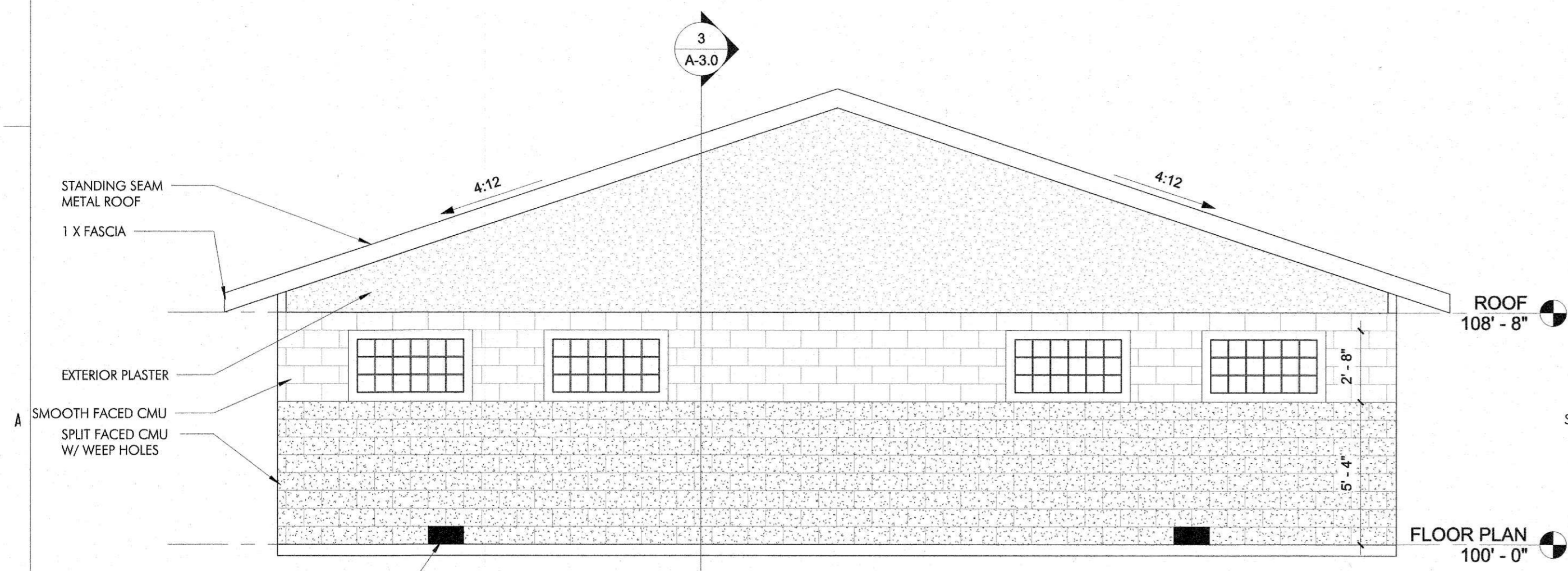
Ryan Hansanuwit
8/10/2017



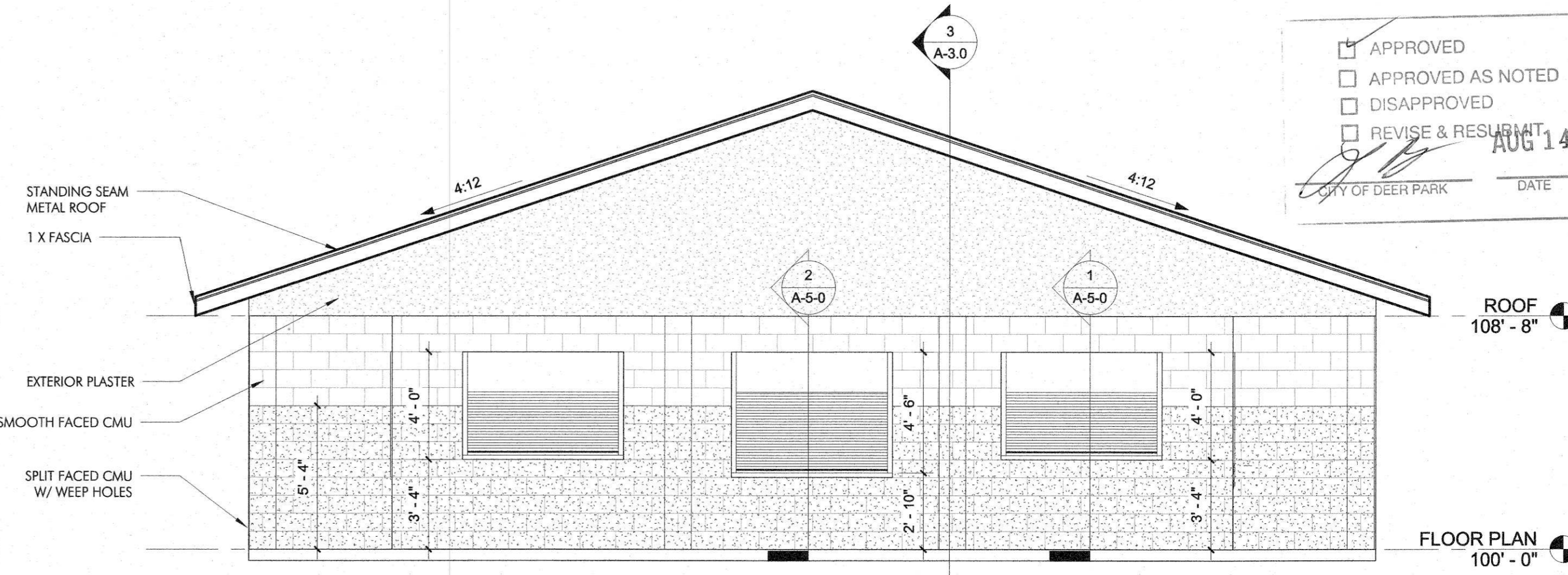
3 EXTERIOR ELEVATION
1/4" = 1'-0"



2 EXTERIOR ELEVATION
1/4" = 1'-0"



4 EXTERIOR ELEVATION
1/4" = 1'-0"



1 EXTERIOR ELEVATION
1/4" = 1'-0"

<input checked="" type="checkbox"/>	APPROVED
<input type="checkbox"/>	APPROVED AS NOTED
<input type="checkbox"/>	DISAPPROVED
<input type="checkbox"/>	REVISE & RESUBMIT

AUG 14 2017
CITY OF DEER PARK DATE

CONCESSION / RESTROOM BUILDING

GIRLS SOFTBALL RENOVATIONS AT YOUTH SPORTS COMPLEX
407 W X ST. CITY OF DEER PARK, TEXAS

PROJECT PHASE
BID - 8/3/17
REVISIONS
1 TAS REVIEW 4/11/2017

PROJECT NUMBER
14123-00
DATE ISSUED
8/10/2017
SHEET TITLE
EXTERIOR ELEVATIONS

SHEET NUMBER
A-2.0

CITY OF DEER PARK
Date Received
AUG 11 2017
ENGINEERING DEPARTMENT

5

4

3

2

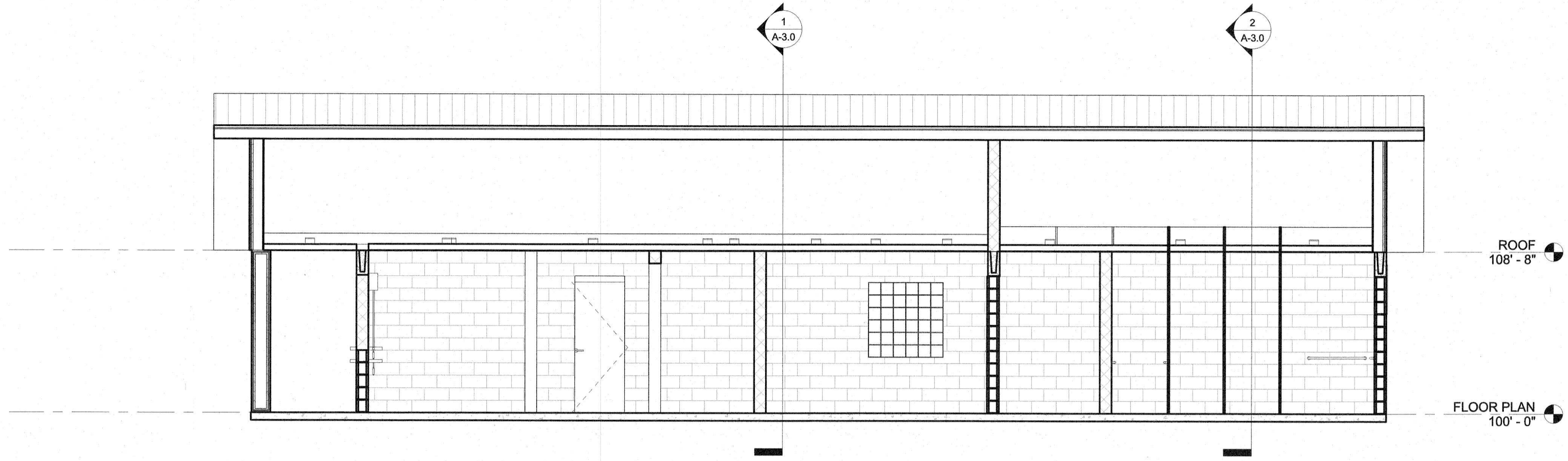
1



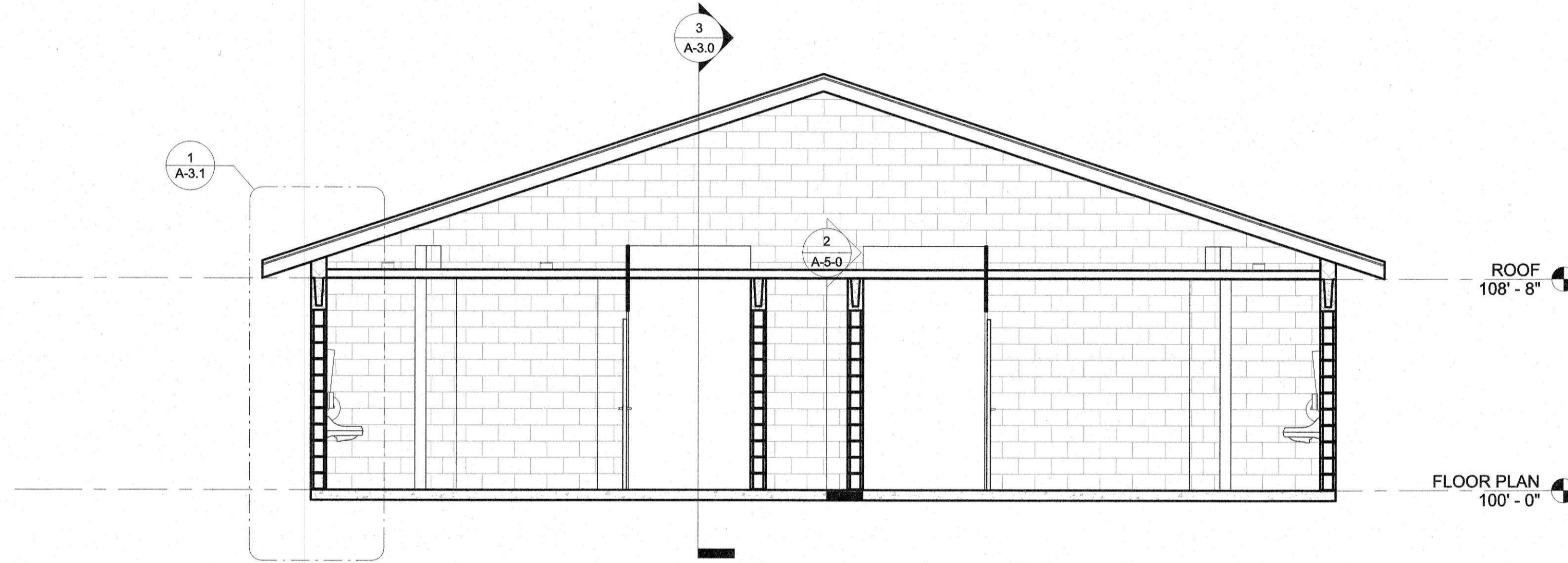
11021 s austin ave, suite 103
georgetown, tx 78626
ryan@modedc.us | www.modedc.us
+ 1 512 733 1150



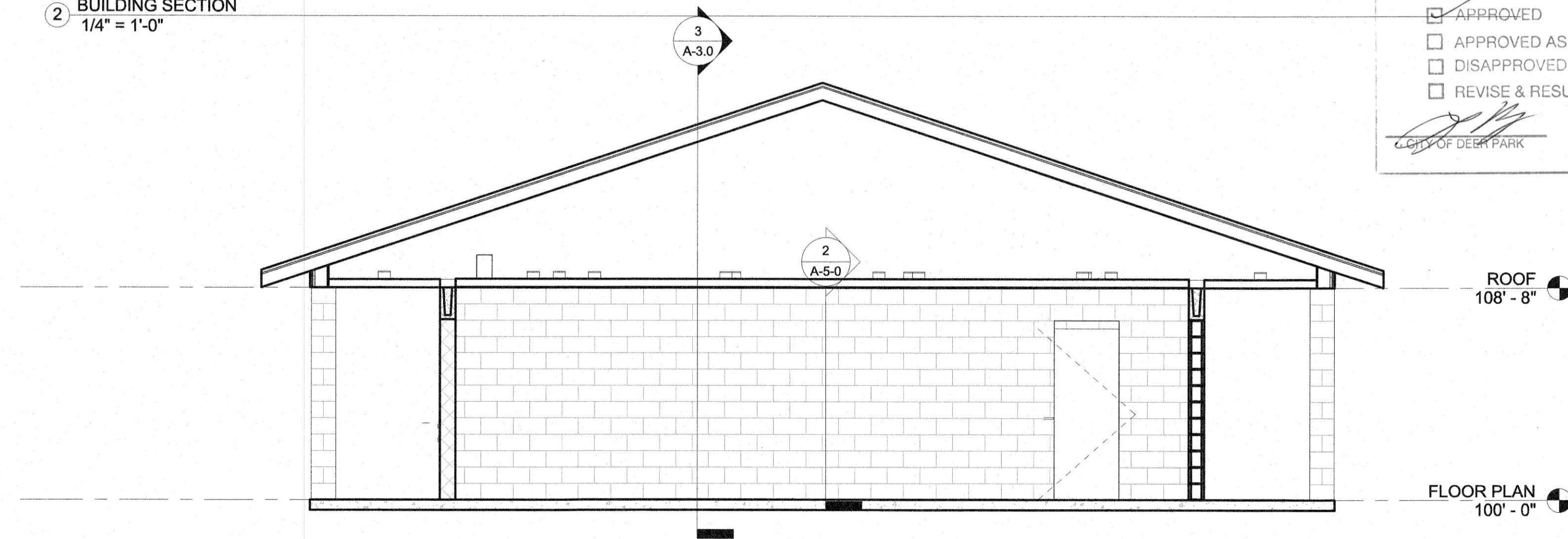
Ryan Hansanuwat
8/10/2017



3 BUILDING SECTION
1/4" = 1'-0"



2 BUILDING SECTION
1/4" = 1'-0"



1 BUILDING SECTION
1/4" = 1'-0"

<input checked="" type="checkbox"/>	APPROVED
<input type="checkbox"/>	APPROVED AS NOTED
<input type="checkbox"/>	DISAPPROVED
<input type="checkbox"/>	REVISE & RESUBMIT

[Signature]
CITY OF DEER PARK
AUG 14 2017
DATE

CONCESSION / RESTROOM BUILDING

GIRLS SOFTBALL RENOVATIONS AT YOUTH SPORTS COMPLEX
407 W X ST. CITY OF DEER PARK, TEXAS

PROJECT PHASE
BID - 8/3/17
REVISIONS
CITY OF DEER PARK
Date Received
AUG 11 2017
ENGINEERING DEPARTMENT

PROJECT NUMBER
16123-00
DATE ISSUED
8/10/2017
SHEET TITLE
BUILDING SECTIONS

SHEET NUMBER
A-3.0

D

C

B

A

5

4

3

2

1



Ryan Hansanuwat
8/10/2017

CONCESSION / RESTROOM BUILDING

GIRLS SOFTBALL RENOVATIONS AT YOUTH SPORTS COMPLEX
407 W X ST. CITY OF DEER PARK, TEXAS

PROJECT PHASE

BID - 8/3/17

REVISIONS

CITY OF DEER PARK

Date Received

AUG 11 2017

ENGINEERING DEPARTMENT

PROJECT NUMBER

16123-00

DATE ISSUED

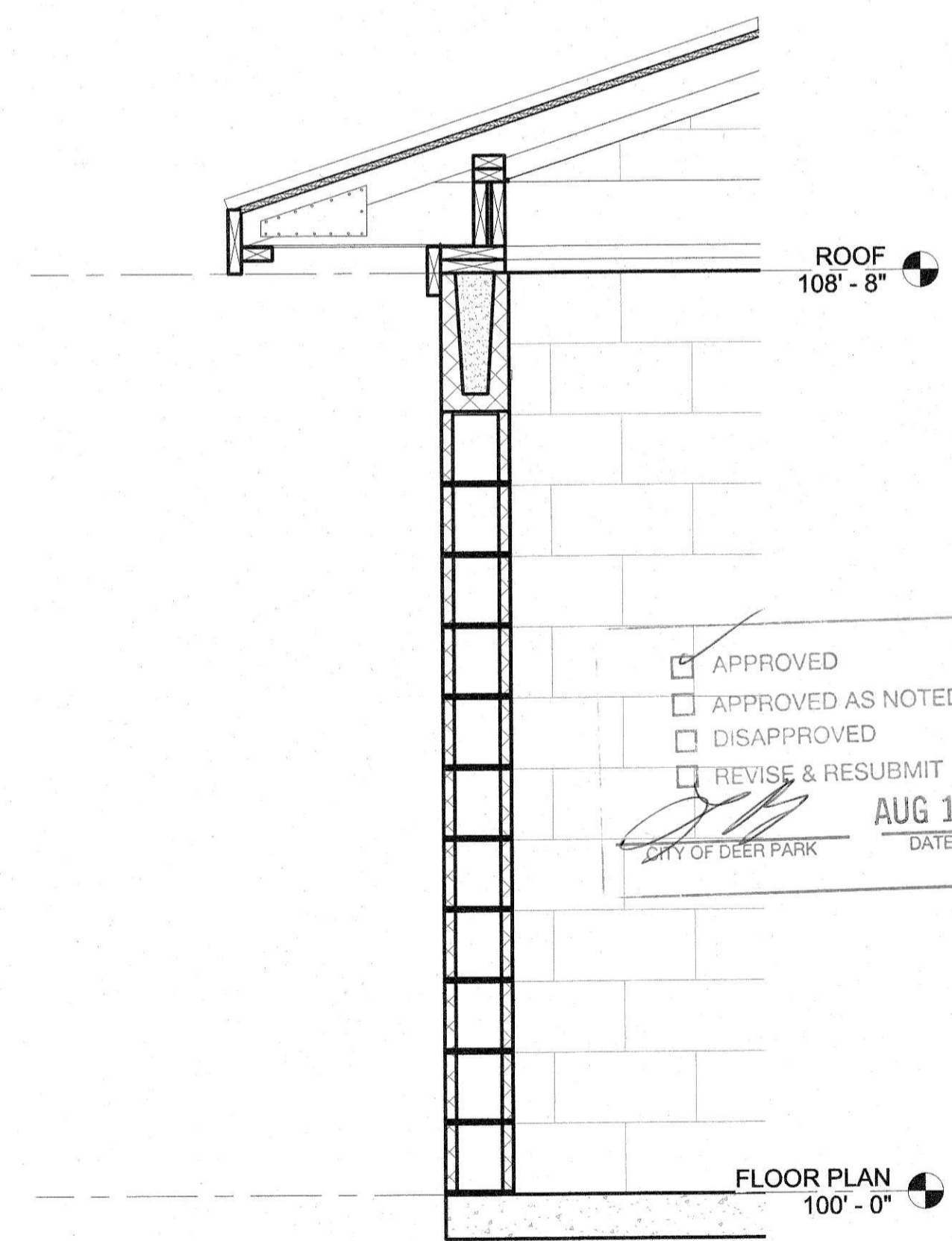
8/10/2017

SHEET TITLE

WALL SECTIONS

SHEET NUMBER

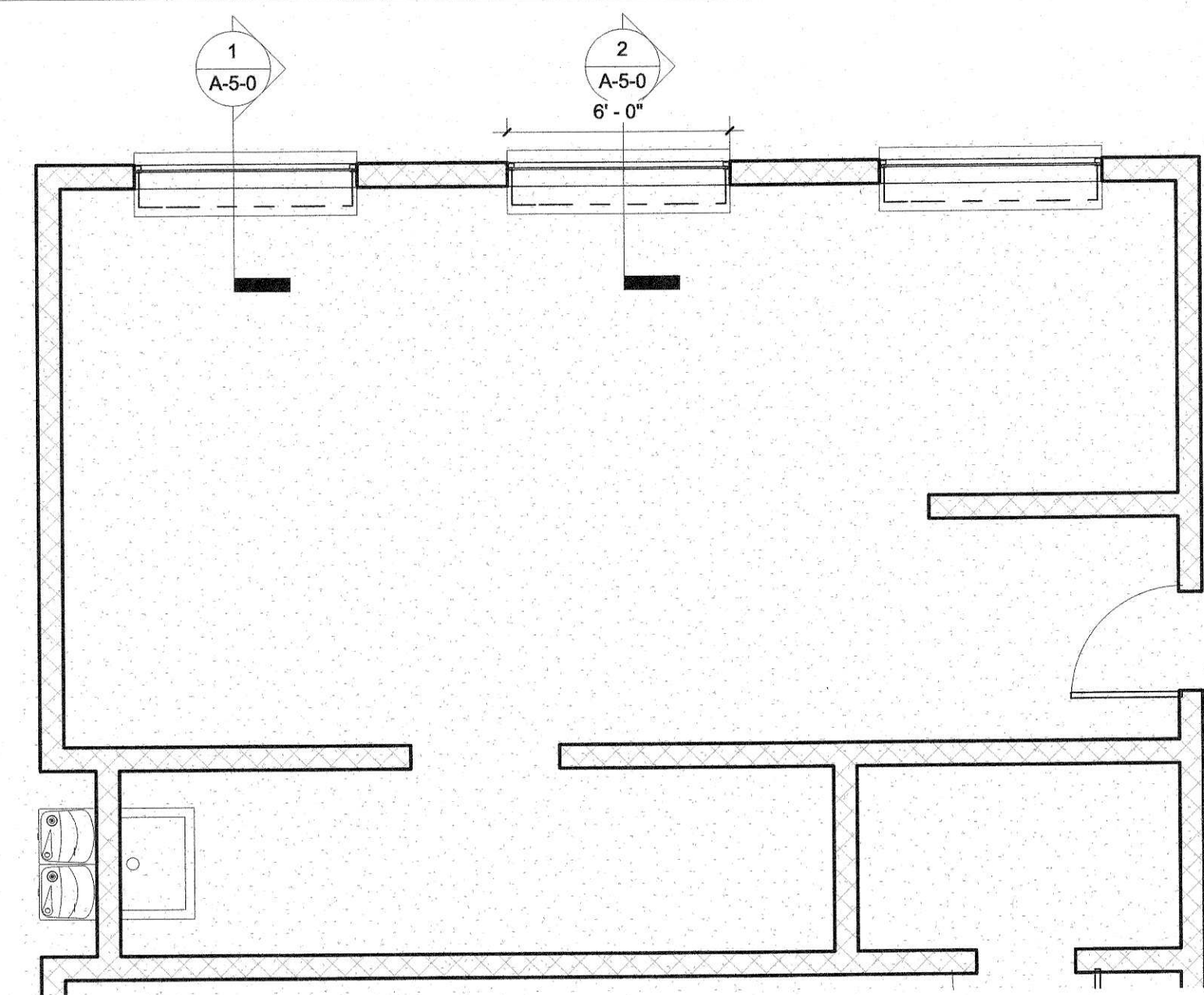
A-3.1



1 WALL SECTION
3/4" = 1'-0"



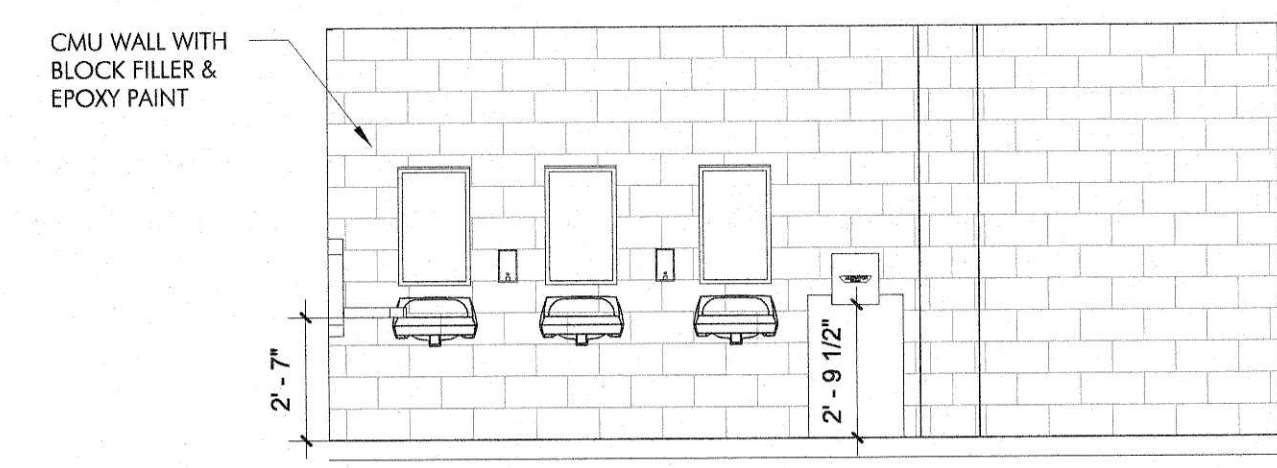
Ryan Hansanawat
8/10/2017



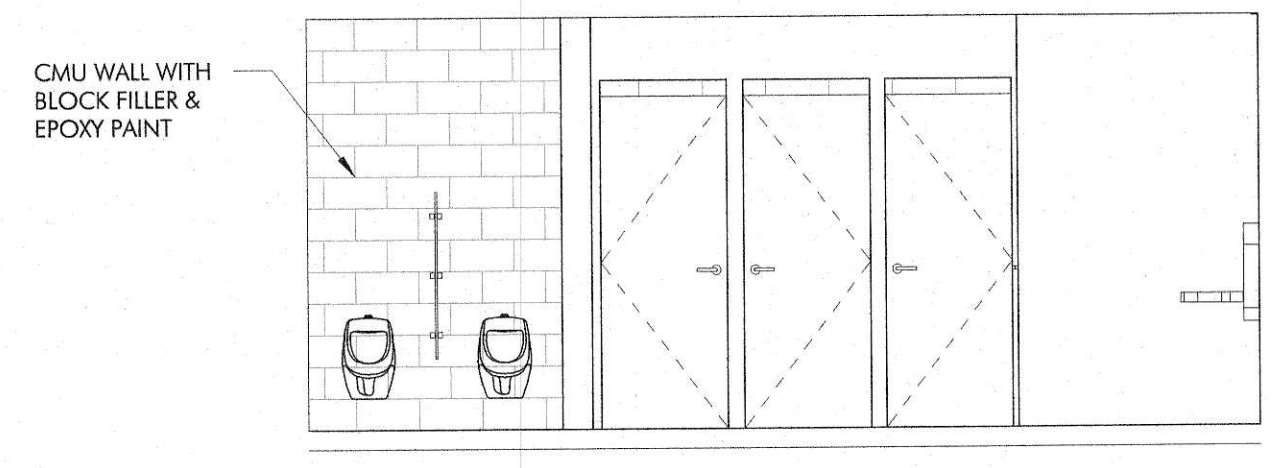
3
CONCESSION EQUIPMENT PLAN FOR
REFERENCE ONLY
1/4" = 1'-0"

TOILET ACCESSORIES

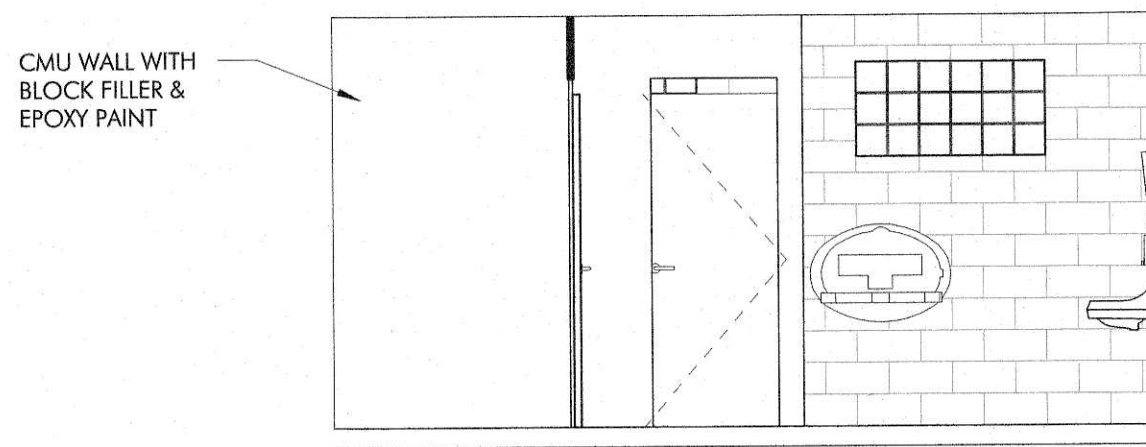
TA-1 TOILET TISSUE DISPENSER	BOBRICK TBD
TA-2 GRAB BAR 42"	BOBRICK TBD
TA-3 GRAB BAR 36"	BOBRICK TBD
TA-4 WALL MOUNTED SOAP DISPENSER	BOBRICK TBD
TA-5 FRAMED MIRROR 24" X 36"	BOBRICK TBD
TA-6 ELECTRIC HAND DRYER	REF PLUMBING
TA-7 STAINLESS STEEL PANEL 36" X 24"	
TA-8 BABY CHANGING STATION	BOBRICK TBD
TA-9 SOLID PLASTIC TOILET PARTITION	BOBRICK TBD



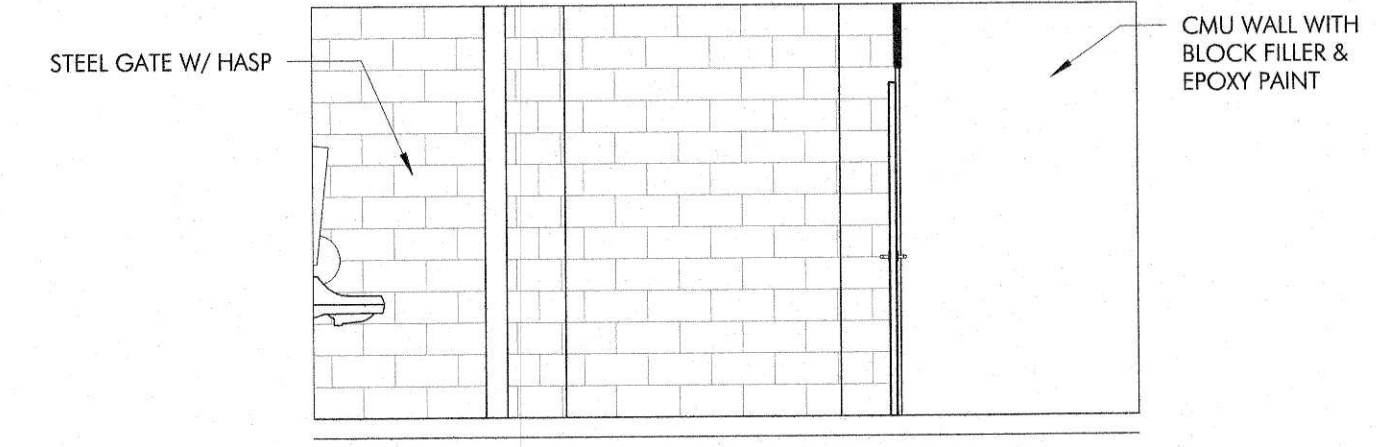
11
INTERIOR ELEVATION
1/4" = 1'-0"



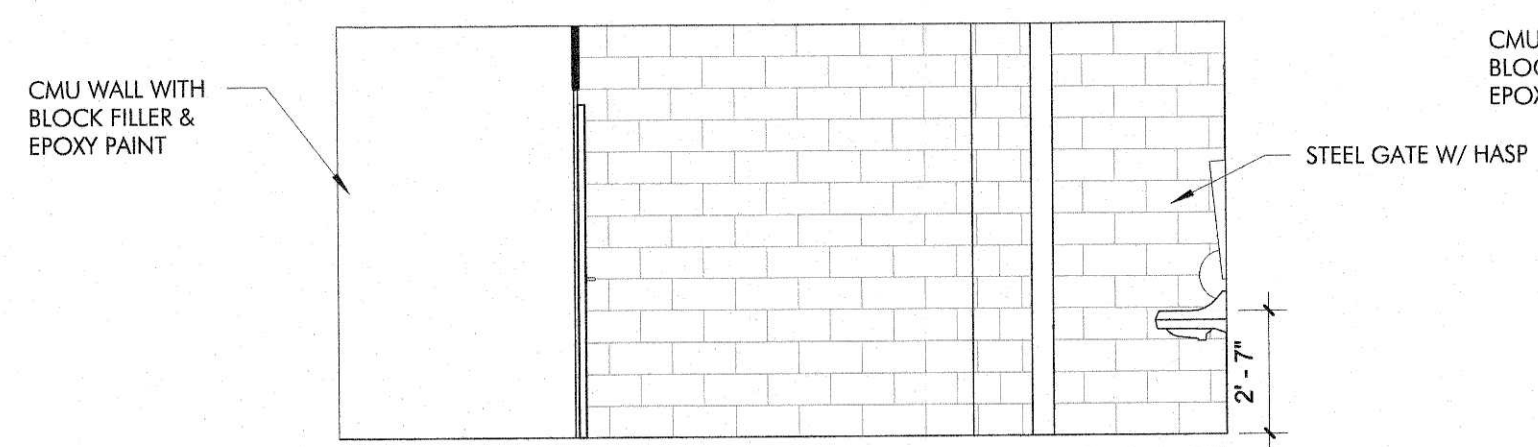
7
INTERIOR ELEVATION
1/4" = 1'-0"



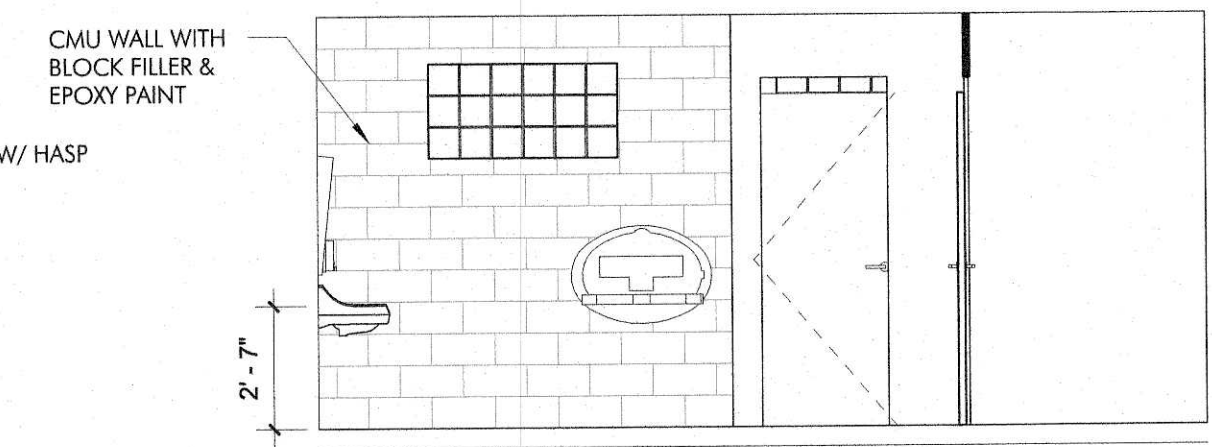
10
INTERIOR ELEVATION
1/4" = 1'-0"



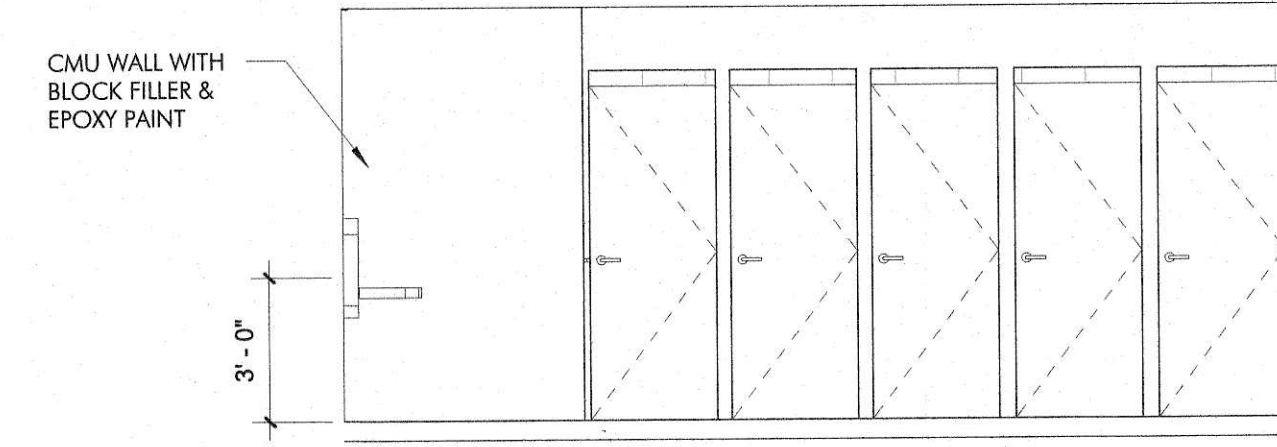
6
INTERIOR ELEVATION
1/4" = 1'-0"



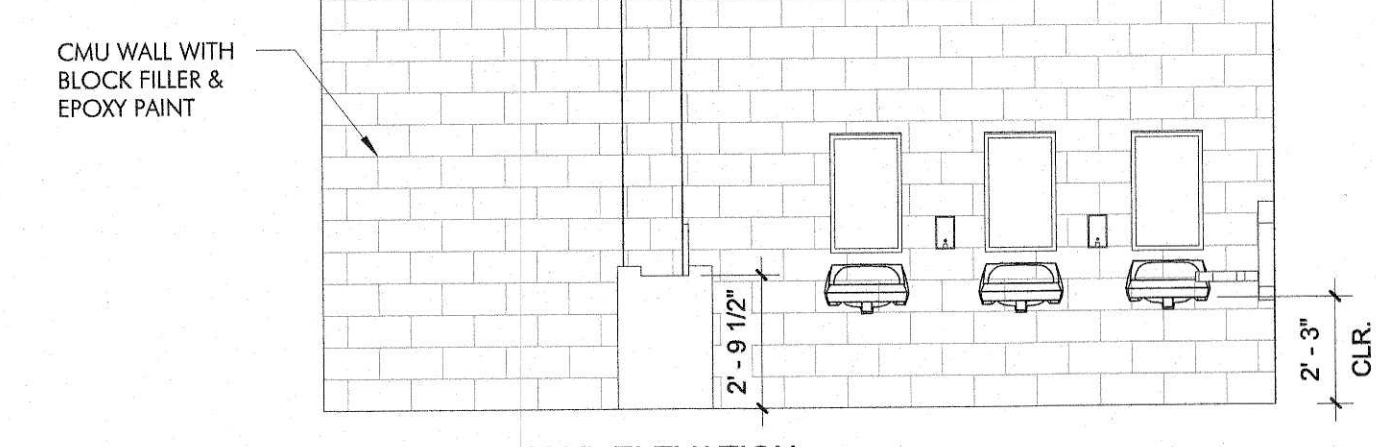
9
INTERIOR ELEVATION
1/4" = 1'-0"



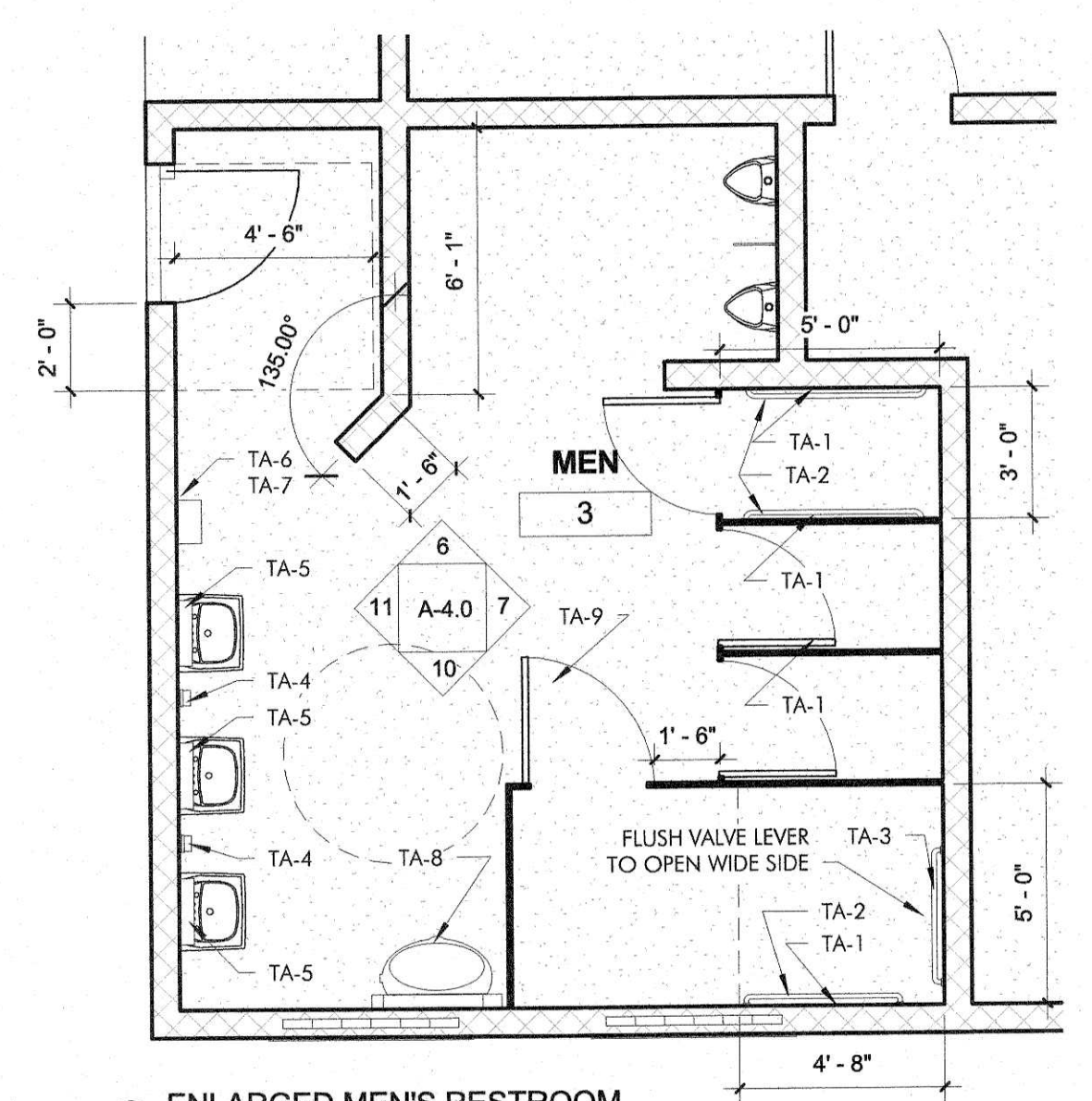
5
INTERIOR ELEVATION
1/4" = 1'-0"



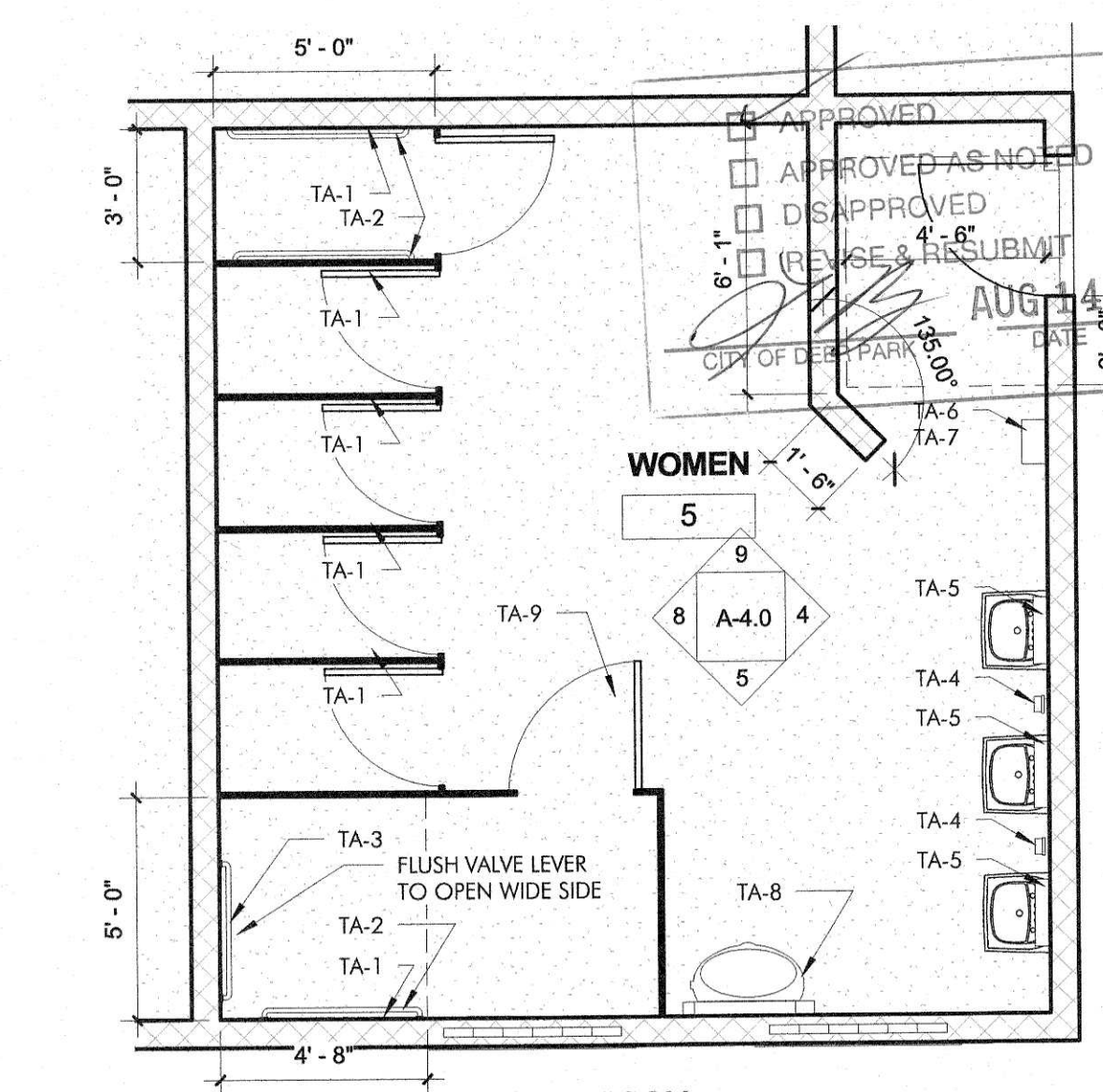
8
INTERIOR ELEVATION
1/4" = 1'-0"



4
INTERIOR ELEVATION
1/4" = 1'-0"



2
ENLARGED MEN'S RESTROOM
1/4" = 1'-0"



1
ENLARGED WOMEN'S RESTROOM
1/4" = 1'-0"

CONCESSION / RESTROOM BUILDING

GIRLS SOFTBALL RENOVATIONS AT YOUTH SPORTS COMPLEX
407 W X ST. CITY OF DEER PARK, TEXAS

PROJECT PHASE
BID - 8/3/17

REVISIONS
1 TAS REVIEW 4/11/2017
CITY OF DEER PARK
Date Received
AUG 11 2017

ENGINEERING DEPARTMENT

PROJECT NUMBER
16123-00
DATE ISSUED
8/10/2017
SHEET TITLE

ENLARGED PLANS / INTERIOR ELEVATIONS

SHEET NUMBER

A-4.0



Ryan Hansanlwy
8/10/2017

CONCESSION / RESTROOM BUILDING

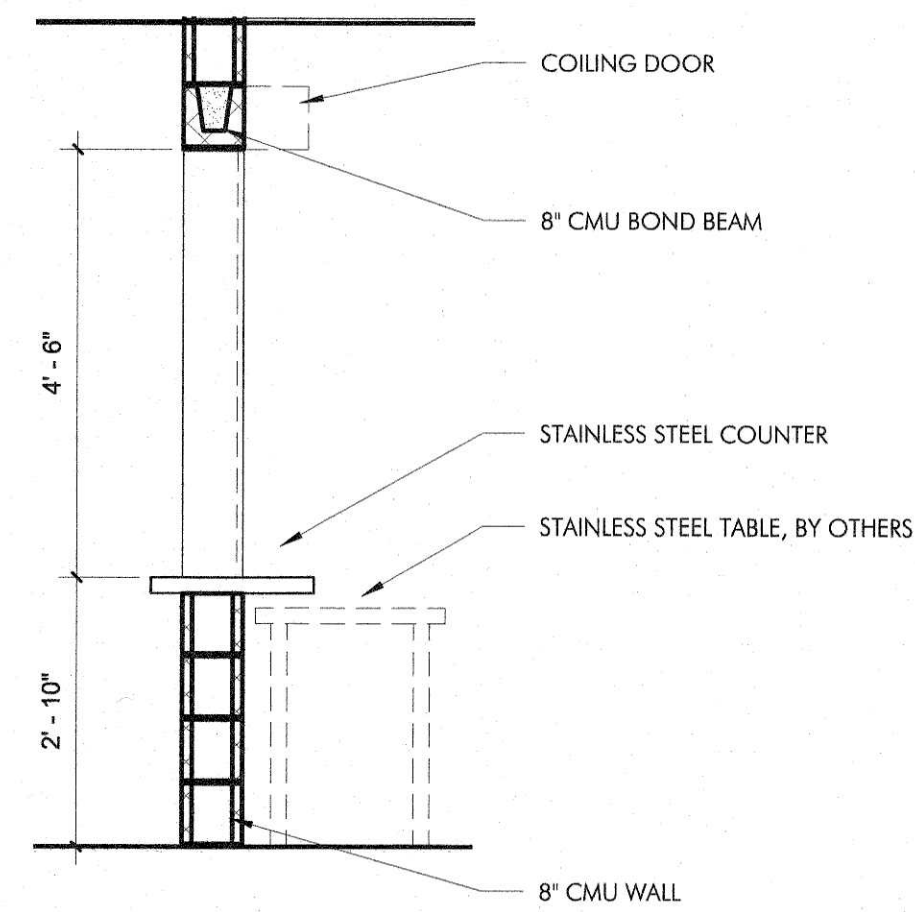
GIRLS SOFTBALL RENOVATIONS AT YOUTH SPORTS COMPLEX
407 W X ST. CITY OF DEER PARK, TEXAS

PROJECT PHASE
BID - 8/3/17
REVISIONS
1 TAS REVIEW 4/11/2017
CITY OF DEER PARK
Date Received
AUG 11 2017

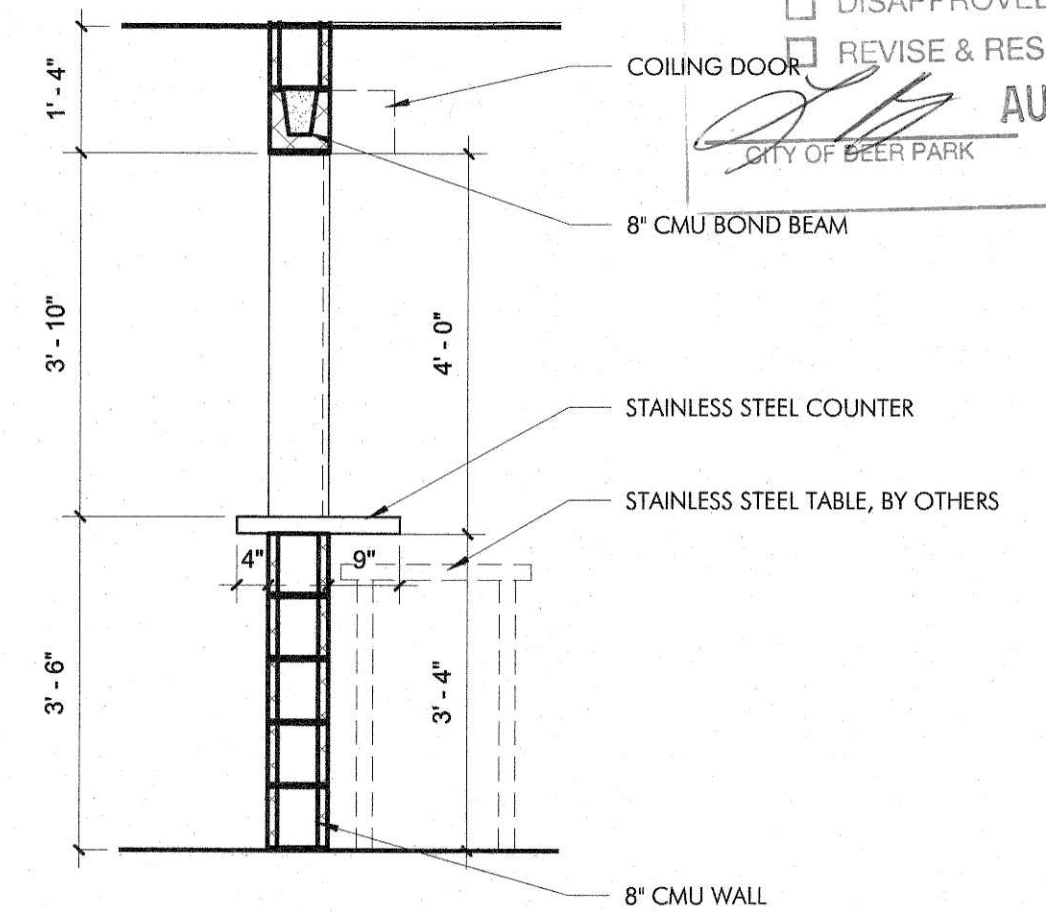
ENGINEERING DEPARTMENT
PROJECT NUMBER
16123-00
DATE ISSUED
8/10/2017
SHEET TITLE
DETAILS

SHEET NUMBER
A-5-0

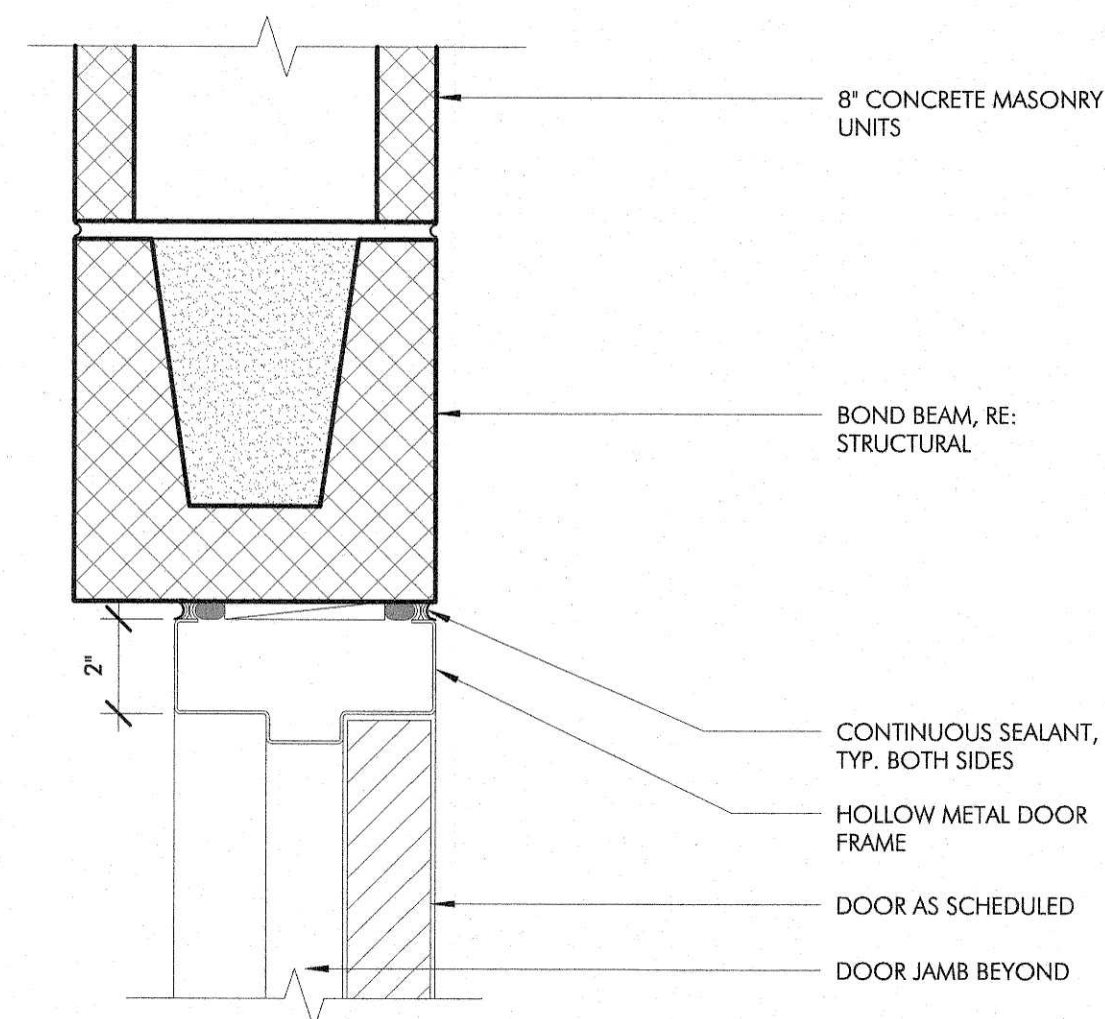
APPROVED
 APPROVED AS NOTED
 DISAPPROVED
 REVISE & RESUBMIT
[Signature] AUG 14 2017
CITY OF DEER PARK DATE



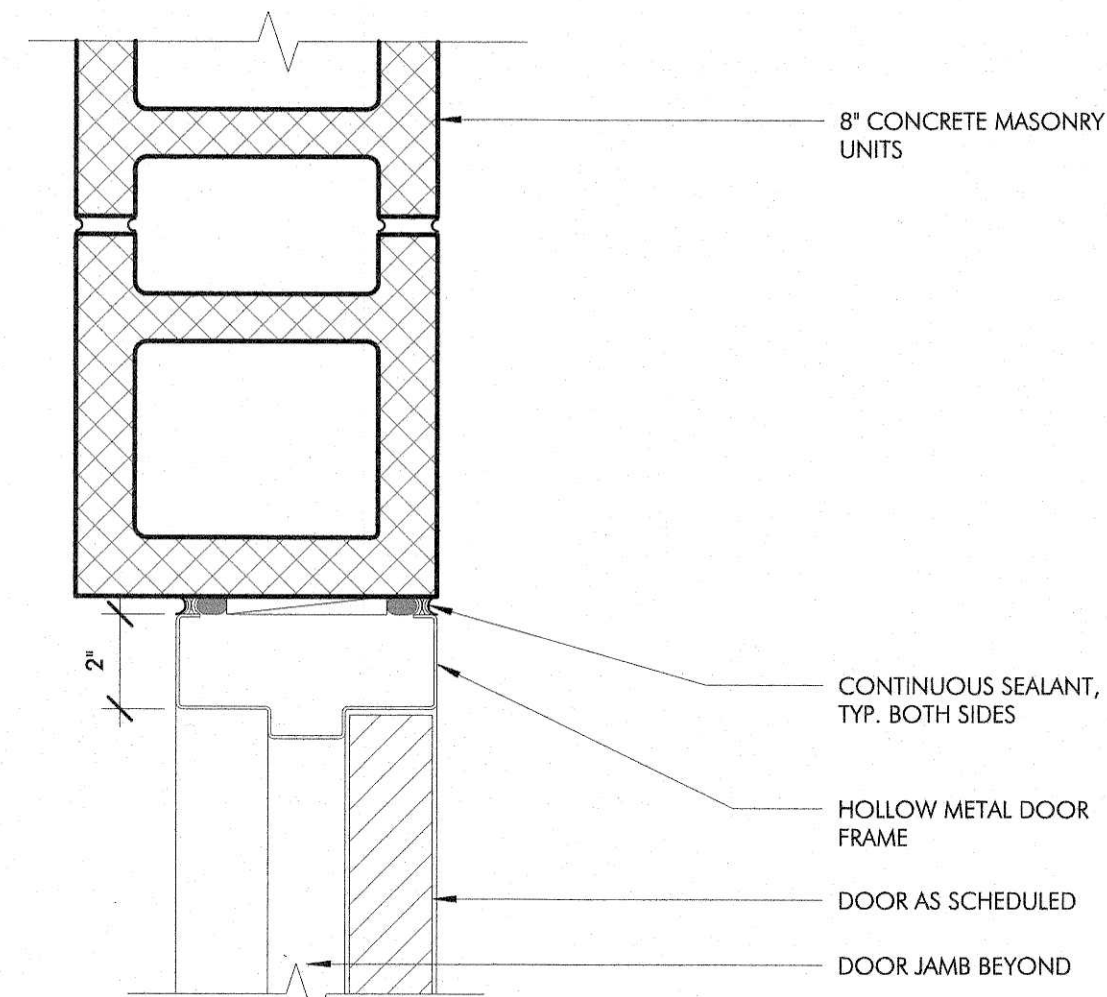
② LOWER COUNTER DETAIL
1/2" = 1'-0"



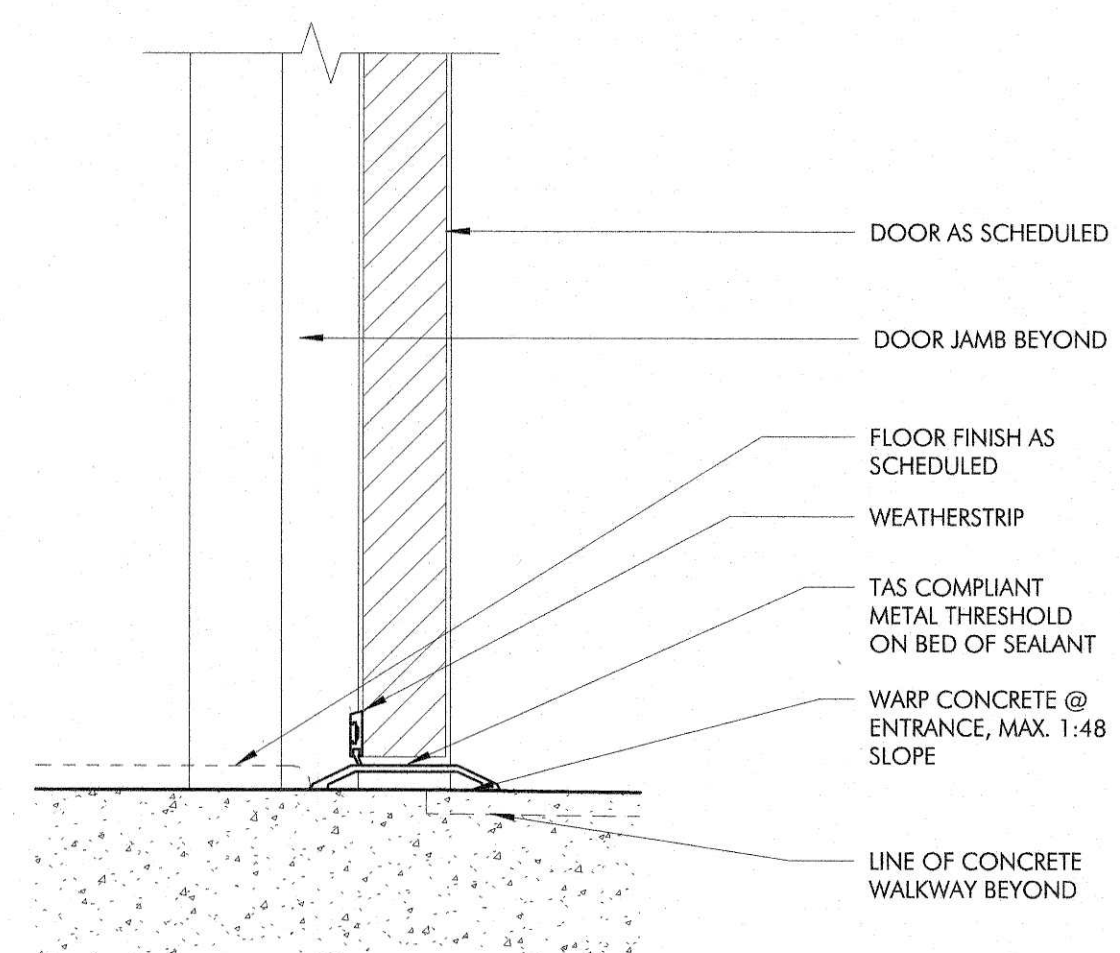
① COUNTER DETAIL
1/2" = 1'-0"



5 HEAD DETAIL
3" = 1'-0"

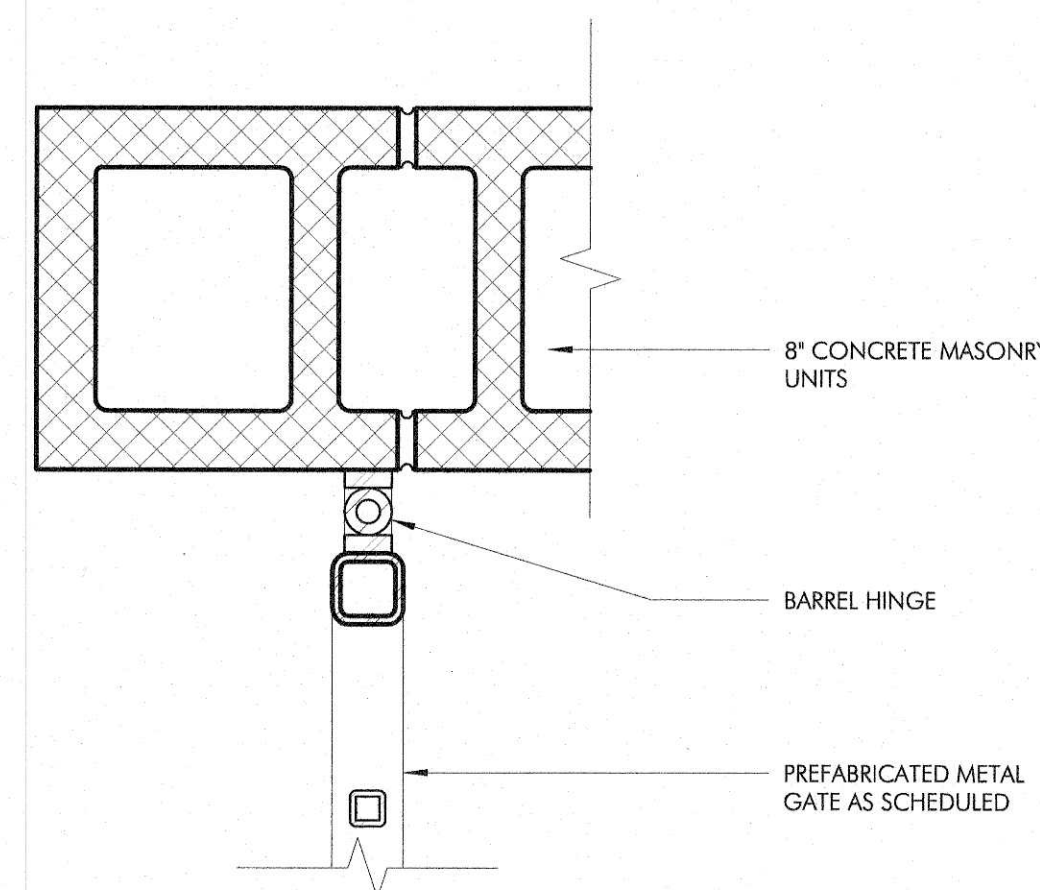


4 JAMB DETAIL
3" = 1'-0"

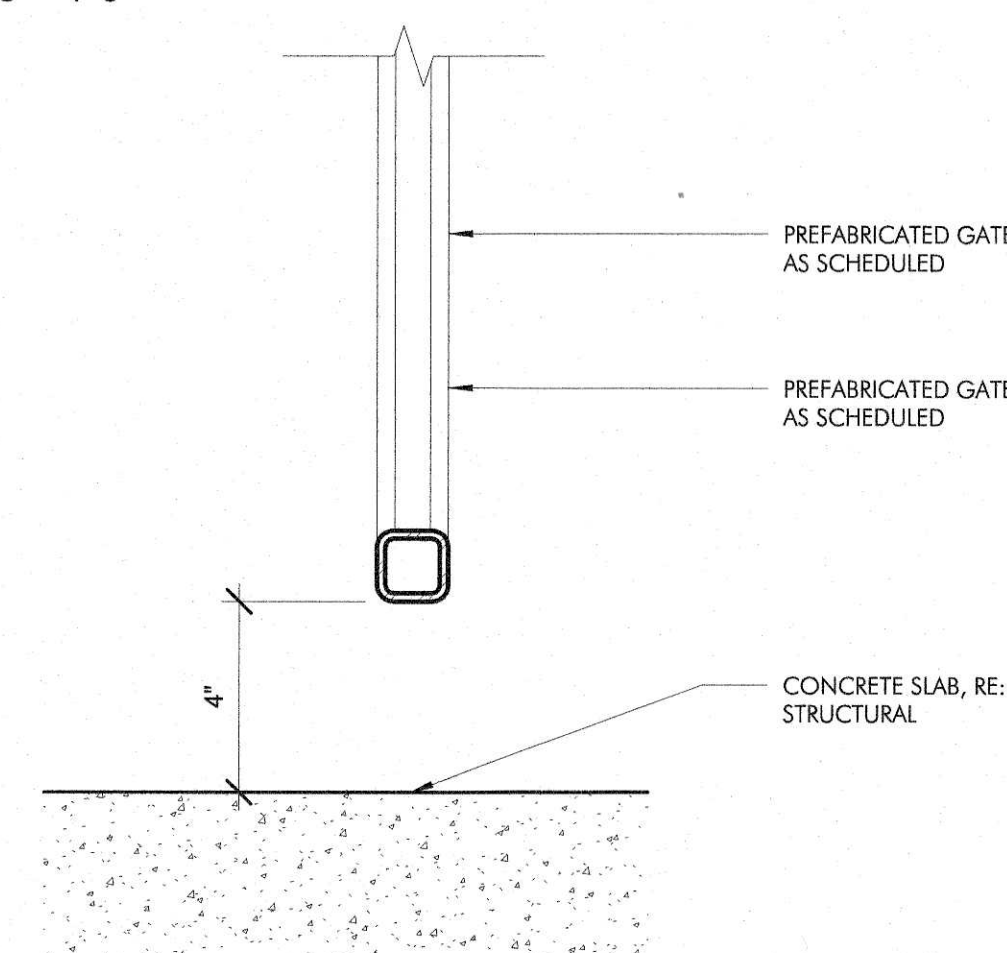


3 THRESHOLD DETAIL
3" = 1'-0"

MARK	DOOR SCHEDULE								COMMENTS
	WIDTH	HEIGHT	LEAVES	THICK	FINISH	GLAZING	FRAME FINISH	RATING	
101	3'-0"	7'-0"	1	1 3/4"	PAINT	N/A	PAINT	0	EXTERIOR HOLLOW METAL DOOR - LOCKSET
102	3'-0"	7'-0"	1	1 3/4"	PAINT	N/A	PAINT	0	EXTERIOR HOLLOW METAL DOOR - LOCKSET
103	3'-0"	7'-0"	1	1 3/4"	PAINT	N/A	PAINT	0	EXTERIOR HOLLOW METAL DOOR - LOCKSET
106	6'-0"	4'-0"	0	0"	ANODIZED	N/A	N/A	0	COILING COUNTER DOOR
107	6'-0"	4'-8"	0	0"	ANODIZED	N/A	N/A	0	COILING COUNTER DOOR
108	6'-0"	4'-0"	0	0"	ANODIZED	N/A	N/A	0	COILING COUNTER DOOR
109	4'-0"	7'-0"	1	1 3/4"	PAINT	N/A	PAINT	0	HOLLOW METAL DOOR - LOCKSET
110	3'-0"	7'-0"		1 3/4"					
111	2'-8"	7'-0"		1 3/4"					
113	2'-8"	7'-0"		1 3/4"					
114	2'-8"	7'-0"		1 3/4"					
115	3'-0"	7'-0"		1 3/4"					
116	2'-8"	7'-0"		1 3/4"					
117	2'-8"	7'-0"		1 3/4"					
118	2'-8"	7'-0"		1 3/4"					
119	2'-8"	7'-0"		1 3/4"					
120	2'-8"	7'-0"		1 3/4"					



2 JAMB DETAIL
3" = 1'-0"



1 THRESHOLD DETAIL
3" = 1'-0"

APPROVED
 APPROVED AS NOTED
 DISAPPROVED
 REVISE & RESUBMIT

[Signature]
 CITY OF DEER PARK
 DATE: AUG 14 2017



1102 | austin ave, suite 103
 georgetown, tx 78626
 ryan@modedc.us | www.modedc.us
 + 1 512 733 1150



[Signature]
 8/10/2017

CONCESSION / RESTROOM BUILDING

GIRLS SOFTBALL RENOVATIONS AT YOUTH SPORTS COMPLEX
 407 W X ST. CITY OF DEER PARK, TEXAS

PROJECT PHASE
 BID - 8/3/17

REVISIONS
 CITY OF DEER PARK
 Date Received
 AUG 11 2017

ENGINEERING DEPARTMENT

PROJECT NUMBER
 16123-00

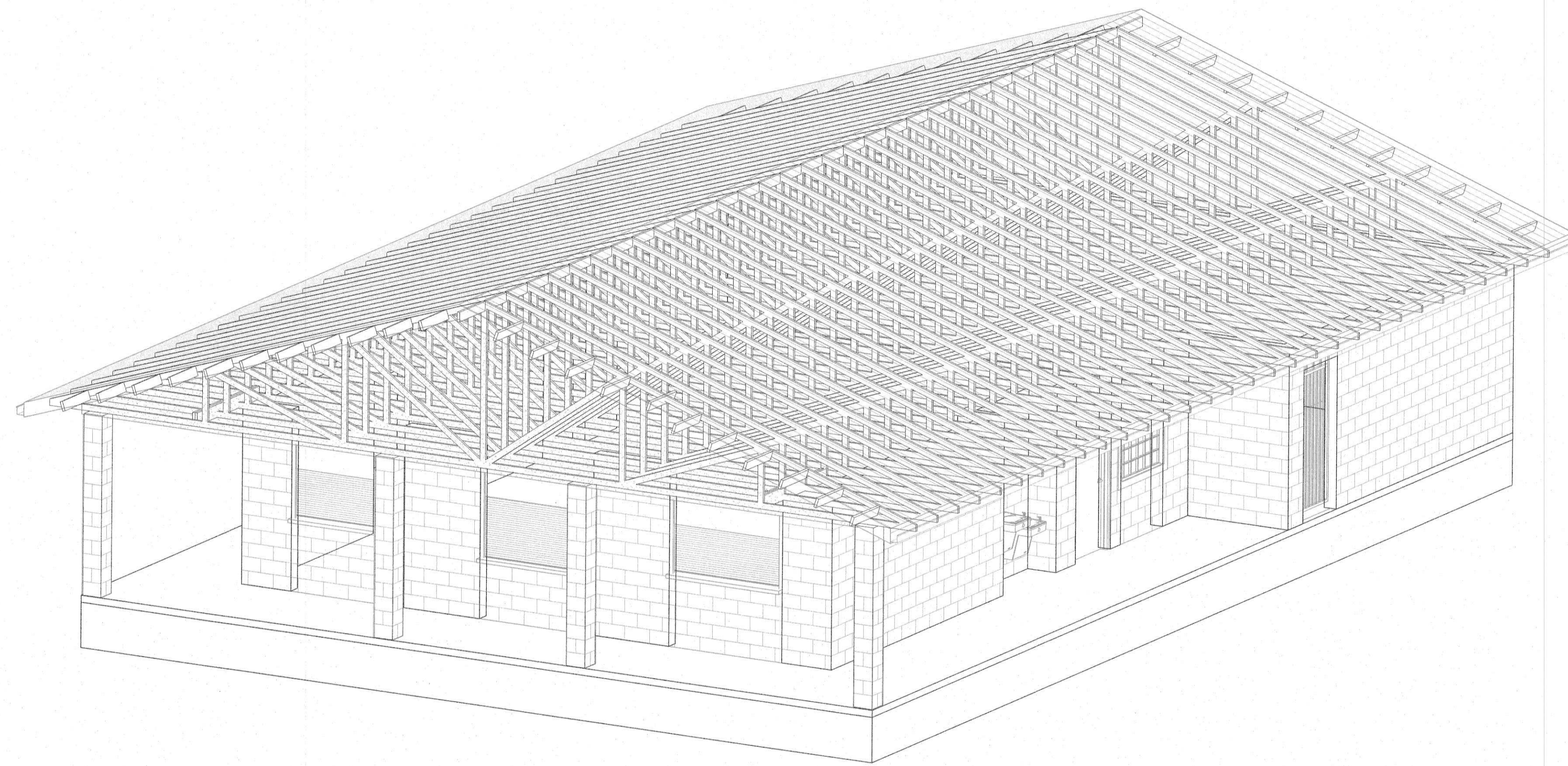
DATE ISSUED
 8/10/2017

SHEET TITLE
 DOOR SCHEDULE/ DETAILS

SHEET NUMBER

A-6.0

PROJECT VIEW



DRAWING SYMBOLS

	LOAD BEARING MASONRY WALL		EARTH/COMPACT FILL		12' X 12' BLOCKOUT FOR PLUMBING, REF. ARCHITECTURAL OR PLUMBING DRAWINGS FOR LOCATION
	WOOD BLOCKING		BEAM SPLICE LOCATION		CURB STEP
	WELDED WIRE FABRIC		BEAM MOMENT CONNECTION		TRENCH STEP
	SPAN DIRECTION OF HOLLOW CORE SLABS		PIER DIAMETER/EMBEDMENT INTO LIMESTONE STRATA		STEP W/ SLOPE
	COLUMN GRIDLINE & GRID DESIGNATIONS		TILT WALL PANEL NUMBER		STEP DOWN
	DETAIL TARGETS DETAIL NUMBER SHEET NUMBER		SECTION CUTS SECTION NUMBER SHEET NUMBER		SLOPE DOWN
	ELEVATION TARGET SHEET NUMBER ELEVATION NUMBER		REVISION CLOUDS REVISED AREA CLOUDED		EXISTING CONDITION
	MECHANICAL UNIT(S)				

ABBREVIATIONS

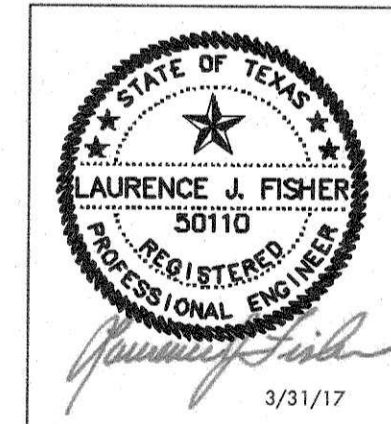
A A.B. ANCHOR BOLT ALT. ALTERNATE ARCH. ARCHITECT (BUREAU)	B B.S. BOTH SIDES BBE. BOTTOM BEAM ELEVATION BLDG. BUILDING BLDG. BUILDING BMDG. BUILDING BOT. BOTTOM BRG. BEARING BSMT. BASEMENT BTWN. BETWEEN B/C. BLOCK	C C.J. CONTROL JOINT CL. CENTER LINE CLR. CLEARANCE C.M.U. CONCRETE MASONRY UNIT C.B. CONCRETE BLOCK COL. COLUMN CONC. CONCRETE CONN. CONNECTION CONST. CONSTRUCTION CONT. CONTINUOUS C.I.P. CAST IN PLACE COMP. COMPOSITE	D DET. DETAIL DIA. DIAMETER DIAG. DIAGONAL DN. DOWN DWG. DRAWING DBL. DOUBLE D.L. DEAD LOAD D.O. DITTO	E E. EAST EA. EACH E.S. EACH SIDE ELEV. ELEVATION EQ. EQUAL EXST. EXISTING EXP. EXPANSION EXT. EXTERIOR	F FD. FLOOR DRAIN FND. FOUNDATION FTG. FOOTING FUT. FUTURE F.S. FASIDE FAB. FABRICATE (OR) FLG. FLANGE F.O.B. FACE OF BRICK	G GA. GAGE, GAUGE GALV. GALVANIZED G.C. GENERAL CONTRACTOR G.B. GRADE BEAM	H H.C.A. HEADED CONCRETE ANCHOR HORIZ. HORIZONTAL HT. HEIGHT H.S. HEADED STUDS HTS. TUBE STEEL	I INFO. INFORMATION INSIDE FACE	J JST. JOIST JOINT J/BRG. JOIST BEARING	K K. KIP K.O. KNOCK-OUT K.S.I. KIPS PER SQ. INCH	L LH. LONG LEG HORIZONTAL LV. LONG LEG VERTICAL LL. LIVE LOAD	M MIN. MINIMUM MAS. MASONRY MANUF. MANUFACTURER MEZZ. MEZZANINE MISC. MISCELLANEOUS M.C. MACHINERY OPENING MATL. MATERIAL MTL. METAL	N N. NORTH NTS. NOT TO SCALE N.S. NEAR SIDE N.L.C. NOT IN CONTRACT	O O.C. ON CENTER(S) O.C.E.W. ON CENTER EACH WAY O.S. OUTSIDE OPNG. OPENING OPP. OPPOSITE O.F. OUTSIDE FACE	P P.C. PRECAST CONCRETE PERIM. PERIMETER P.J. PANEL JOINT P. PLATE P.L.F. POUNDS PER LINEAR FOOT PMB. PRE-ENGINEERED METAL BUILDING PROJ. PROJECTION P.F. POUNDS PER SQ. FOOT P.SI. POUNDS PER SQ. INCH P.T. PRESSURE TREATED	Q QTY. QUANTITY	R RAD. RADIUS R.D. ROOF DRAIN REV. REVISION, REVEELED REF. REFERENCE REQD. REQUIRED	S S. SOUTH SCHED. SCHEDULE SMA. SMAR SQ. SQUARE STD. STANDARD STL. STEEL STRUCT. STRUCTURAL SPA. SPACED S.L. SNOW LOAD	T TEMP. TEMPORARY TYP. TYPICAL T.O. TOP OF TDE. TOP OF DECK ELEVATION TBE. TOP OF BEAM ELEVATION TDE. TOP OF DECK ELEVATION TTE. TOP OF FOOTING ELEVATION TSE. TOP OF SLAB ELEVATION TAB. TOP AND BOTTOM TAG. TONGUE AND GROOVE	U UNEXC. UNEXCAVATED U.N.O. UNLESS NOTED OTHERWISE	V VERT. VERTICAL	W W. WEST W. WITH W.P. WORK POINT W.W.F. WELDED WIRE FABRIC
---	--	--	--	---	---	--	---	---	--	---	--	--	--	--	---	------------------------	--	---	---	--	-------------------------	---

DRAWING INDEX

- S000 STR SHEET INDEX
- S001 STRUCTURAL NOTES
- S100 FND/FRM PLAN
- S200 FOUNDATION DETAILS
- S300 FRAMING DETAILS

<input checked="" type="checkbox"/>	APPROVED
<input type="checkbox"/>	APPROVED AS NOTED
<input type="checkbox"/>	DISAPPROVED
<input type="checkbox"/>	REVISE & RESUBMIT

CITY OF DEER PARK DATE **AUG 14 2017**



2851 Joe DiMaggio, Unit 22
 Round Rock, TX 78665
 Phone (512) 244-1966
 Fax (512) 388-3698
 TBPB Registration No. F-12702
 JOB NO. 17010
 © 2017 ENGINEERING 360, INC.

"Bringing Structure to the World"

MODE
design company

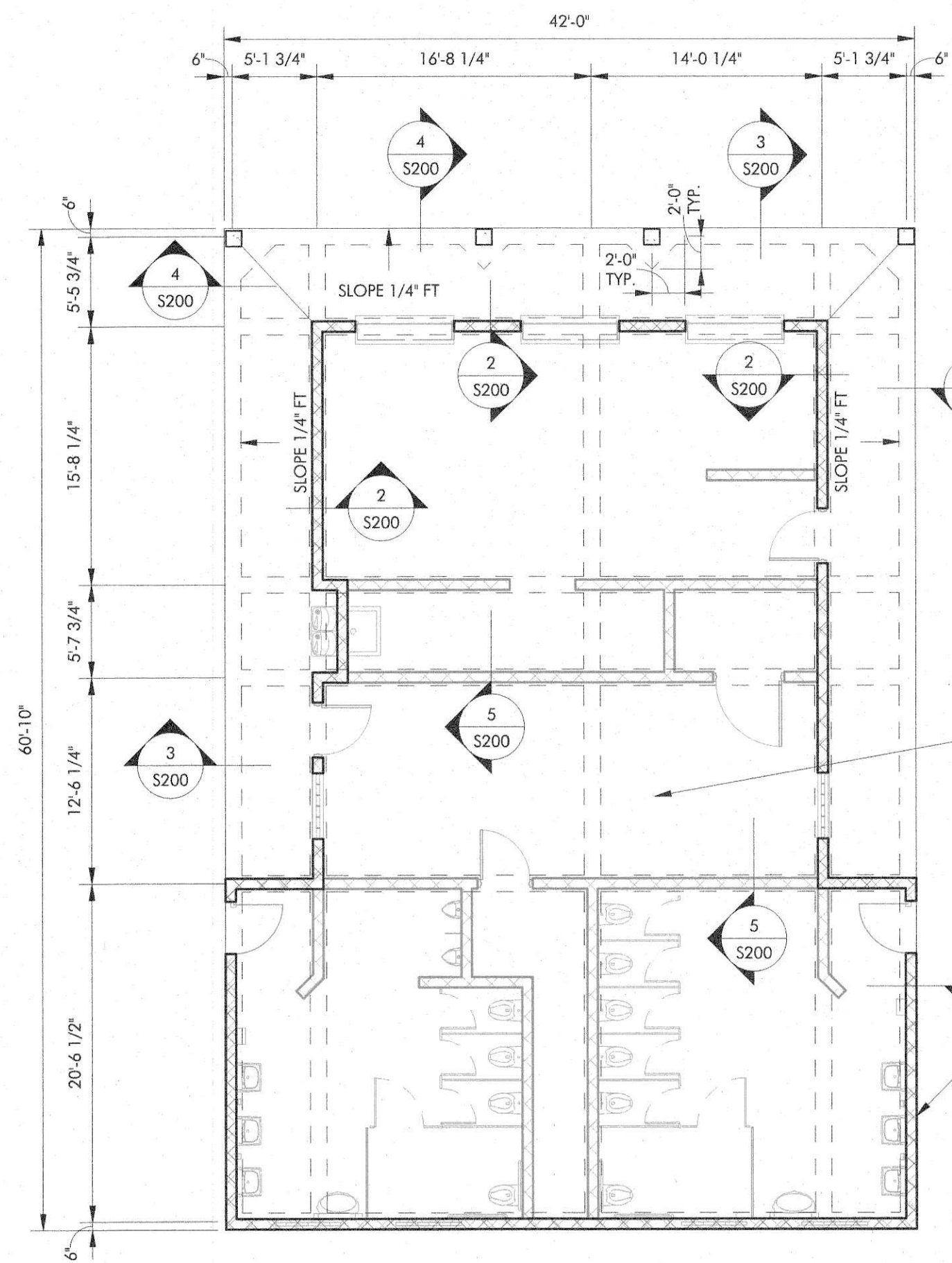
11021 s austin ave, suite 103
 georgetown, tx 78626
 ryan@modedc.us | www.modedc.us
 + 1 512 733 1150

**CONCESSION / RESTROOM
 BUILDING**
 PROJECT B - GIRLS SOFTBALL RENOVATIONS AT YOUTH SPORTS
 COMPLEX
 407 W X ST. CITY OF DEER PARK, TEXAS

PROJECT PHASE
 Project Status
REVISIONS
 CITY OF DEER PARK
 Date Received
 AUG 11 2017
 ENGINEERING DEPARTMENT

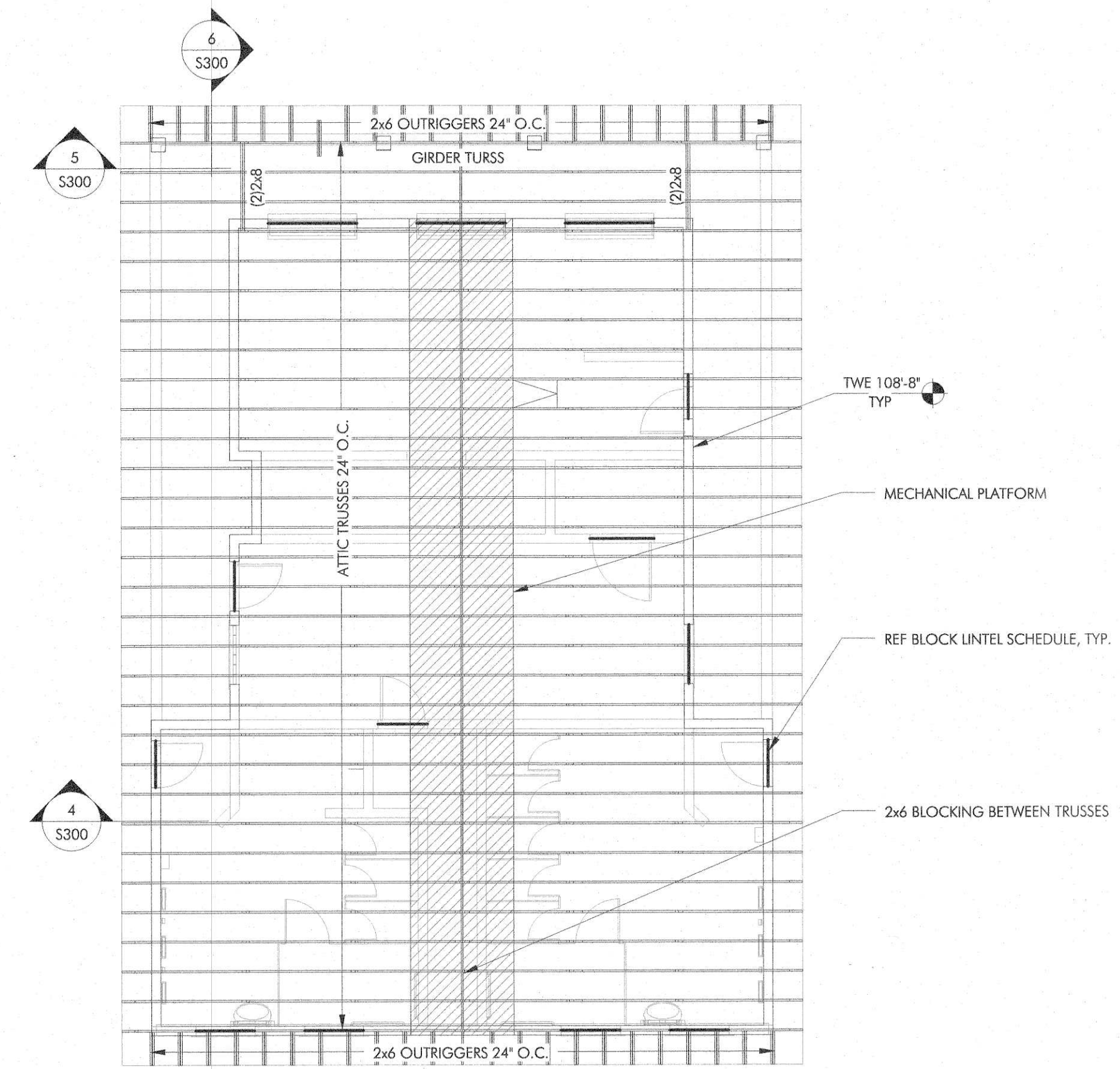
PROJECT NUMBER
 17010
DATE ISSUED
 03-20-2017
SHEET TITLE
 STR SHEET INDEX
SHEET NUMBER
S000

THIS SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY LAURENCE J. FISHER, P.E. 50110.
 THIS DOCUMENT IS ISSUED FOR CONSTRUCTION. THIS DRAWING MAY NOT BE MODIFIED WITHOUT THE WRITTEN CONSENT OF THE ENGINEER, AND THEN ONLY IN ACCORDANCE WITH THE RULES OF THE TEXAS ENGINEERING PRACTICE ACT.



4" CONCRETE SLAB
FINISH FLOOR ELEVATION = 100'-0"
REINFORCE W/ #3 @ 12" O.C.E.W.
SUPPORTED ON 1 3/4" METAL CHAIRS
W/ SAND PLATES @ 48" O.C.E.W.
PROVIDE VAPOR BARRIER

- PLAN NOTES:**
- REFER TO CIVIL SITE PLANS FOR ACTUAL FINISH FLOOR ELEVATIONS. ASSUMED ELEVATION OF 100'-0" FOR ALL SLAB AREAS UNLESS NOTED ON FOUNDATION PLAN OR IN ARCHITECTURAL PLANS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATIONS OF SLAB DROPS AND SLOPES AND FOR COORDINATION OF ALL SLAB AND GRADE BEAM PENETRATIONS.
 - PROVIDE CORNER BARS IN GRADE BEAMS PER DETAIL 6/S200.
 - PLUMBING FIXTURES ARE SHOWN FOR REFERENCE ONLY. REFER ARCHITECTURAL AND PLUMBING PLANS FOR LOCATIONS, TYPE AND QUANTITIES.
 - REFER TO DETAIL 7/S200 FOR ALL PIPE/CONDUIT IN THE FOUNDATION.
 - REFER TO DETAIL 8 AND 9/S200 FOR GRADE BEAM PENETRATIONS.

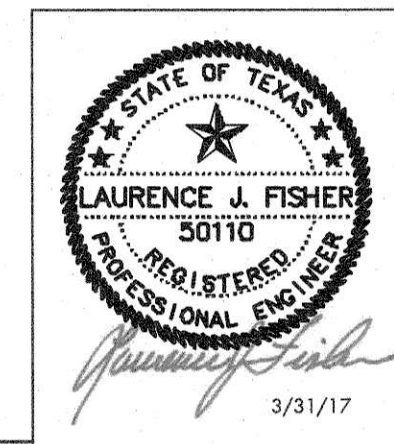


<input type="checkbox"/> APPROVED	
<input type="checkbox"/> APPROVED AS NOTED	
<input type="checkbox"/> DISAPPROVED	
<input type="checkbox"/> REVISE & RESUBMIT	
<i>[Signature]</i>	DATE
CITY OF DEER PARK	AUG 14 2017

**CONCESSION / RESTROOM
BUILDING**
PROJECT B - GIRLS SOFTBALL RENOVATIONS AT YOUTH SPORTS
COMPLEX
407 W X ST. CITY OF DEER PARK, TEXAS

PROJECT PHASE
Project Status
REVISIONS
CITY OF DEER PARK
Date Received
AUG 11 2017
ENGINEERING DEPARTMENT

PROJECT NUMBER
17010
DATE ISSUED
03-20-2017
SHEET TITLE
FND/FRM PLAN
SHEET NUMBER
S100



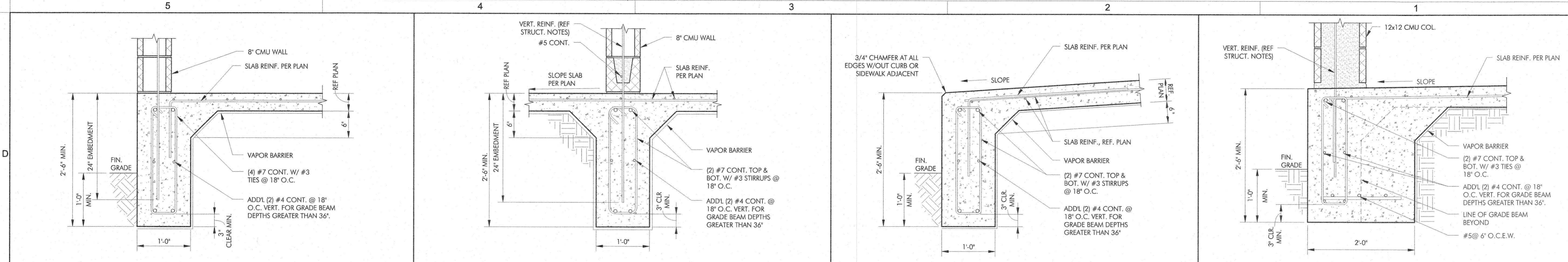
2851 Joe DiMaggio, Unit 22
Round Rock, TX 78665
Phone: (512) 244-1966
Fax: (512) 388-3698
TBPE Registration No. F-12702
JOB NO. 17010
© 2017 ENGINEERING 360, Inc.

NOTICE:
1. THIS DOCUMENT, THE IDEAS AND DESIGN INCORPORATED HEREIN ARE AND SHALL REMAIN THE PROPERTY OF ENGINEERING 360, INC. THESE DOCUMENTS ARE NOT TO BE USED OR REPRODUCED IN ANY MANNER, FOR OTHER THAN THE ORIGINAL INTENDED USE, NOR ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY WITHOUT WRITTEN PERMISSION FROM ENGINEERING 360, INC.
2. BY THE ACT OF SUBMITTING A BID FOR THE PROPOSED CONTRACT, THE BIDDOR WARRANTS THAT THE BIDDOR, AND ALL SUBCONTRACTORS AND VENDORS, SUPPLIERS, AND OTHERS, HAVE CAREFULLY AND THOROUGHLY REVIEWED THE DRAWINGS AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS AND ARE FULLY AWARE OF ANY AMBIGUITIES AND SUFFICIENT FOR THE PURPOSES INTENDED. THE BIDDOR WAIVES ANY OBJECTIONS TO THE BIDDOR'S REVIEW OF THE DRAWINGS AND MATERIALS AND PRODUCTS SPECIFIED OR INDICATED HEREIN AND ACCEPTS ALL APPLICABLE CODES AND AUTHORITIES.

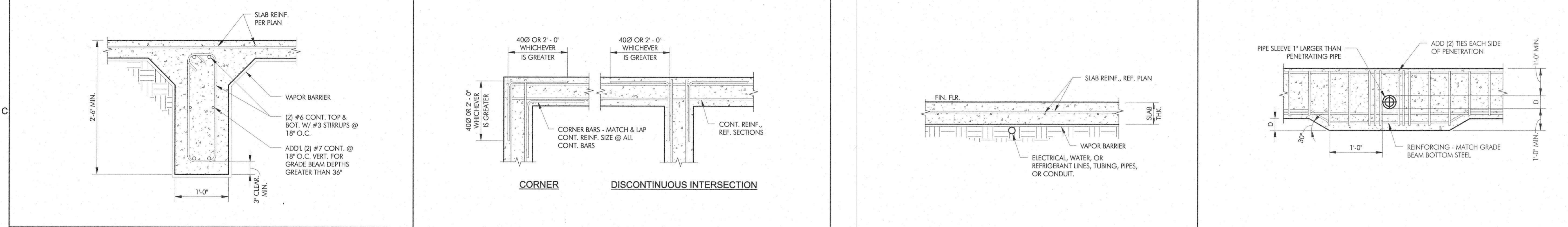
"Bringing Structure to the World"

1 FOUNDATION PLAN
1/8" = 1'-0"
NORTH

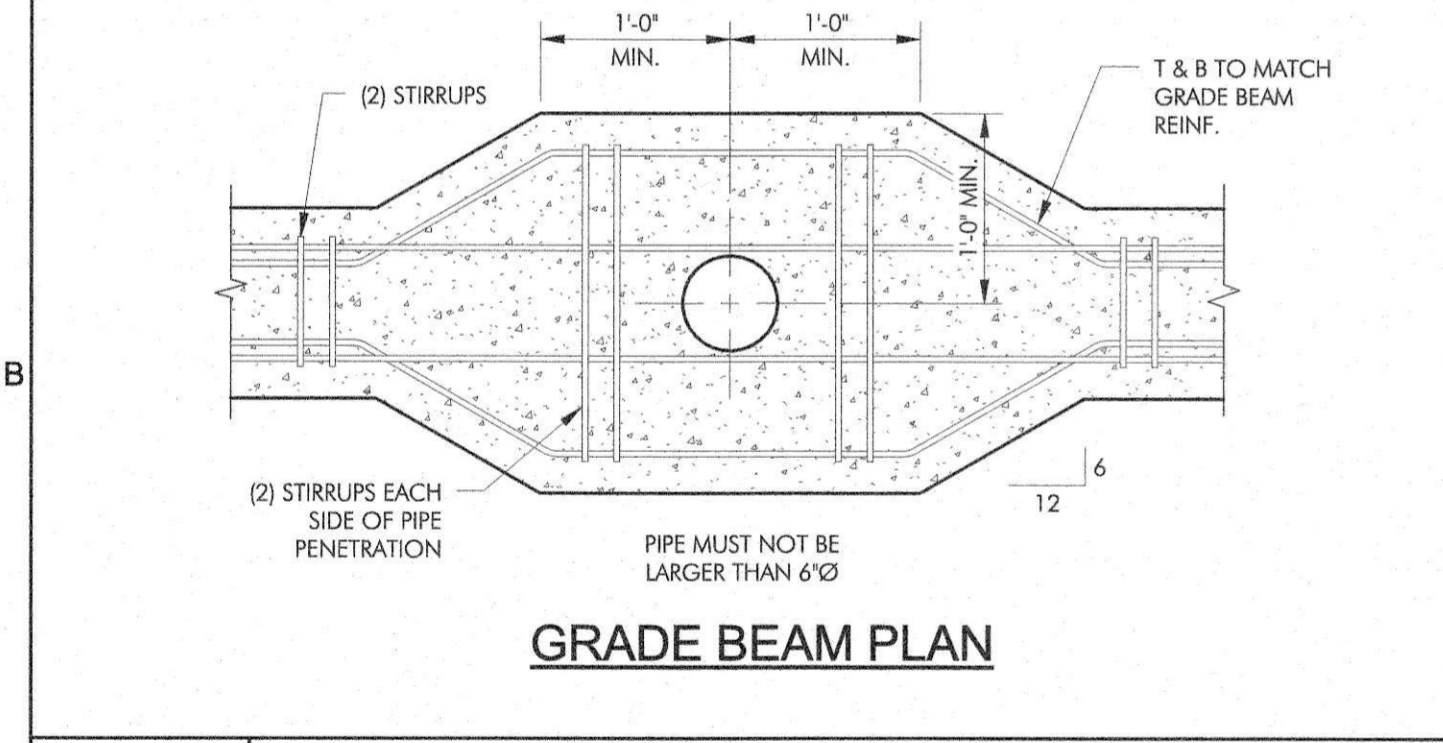
2 ROOF FRAMING PLAN
1/8" = 1'-0"
NORTH



1 SECTION 1" = 1'-0"
2 TYP. INT. GRADE BEAM W/ CMU 1" = 1'-0"
3 SECTION 1" = 1'-0"
4 SECTION 1" = 1'-0"



5 TYP. INT. GRADE BEAM 1" = 1'-0"
6 TYP. GRADE BEAM REINF. DETAIL 1" = 1'-0"
7 TYPICAL SLAB OVER UTILITIES DETAIL 1" = 1'-0"
8 TYP. GRADE BM. PENETRATION DETAIL 1" = 1'-0"



9 TYP. GRADE BM. PENETRATION DETAIL 1" = 1'-0"

NOT USED

NOT USED

NOT USED

NOT USED

NOT USED

NOT USED

APPROVED
 APPROVED AS NOTED
 DISAPPROVED
 REVISE & RESUBMIT

[Signature] **AUG 14 2017**
 CITY OF DEER PARK DATE

STATE OF TEXAS
LAURENCE J. FISHER
 50110
 REGISTERED PROFESSIONAL ENGINEER
 3/31/17

360 ENGINEERING INC.
 2851 Joe DiMaggio, Unit 22
 Round Rock, TX 78665
 Phone (512) 244-1966
 Fax (512) 248-2698
 TBPB Registration No. F-12702
 JOB NO. 17010
 © 2017 ENGINEERING 360, Inc.

NOTICE: 1. THIS DOCUMENT, THE IDEAS AND DESIGN INCORPORATED HEREIN ARE AND SHALL REMAIN THE PROPERTY OF ENGINEERING 360, INC. THESE DOCUMENTS ARE NOT TO BE USED OR ALTERED, IN WHOLE OR IN PART, FOR OTHER THAN THE ORIGINAL INTENDED USE, NOR ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY WITHOUT WRITTEN PERMISSION FROM ENGINEERING 360, INC.
 2. BY THE ACT OF SUBMITTING A BID FOR THE PROPOSED CONTRACT, THE BIDDER WARRANTS THAT THE DESIGN AND THE SPECIFICATIONS AND MATERIAL SUPPLIES HE INTENDS TO USE HAVE CAREFULLY AND THOROUGHLY REVIEWED THE DRAWINGS AND SPECIFICATIONS AND OTHER CONSTRUCTION CONTRACT DOCUMENTS AND HAVE FOUND THEM COMPLETE AND FREE FROM ANY AMBIGUITIES AND SUFFICIENT FOR THE PURPOSES INTENDED. THE BIDDER WARRANTS THAT TO THE BEST OF HIS OR HIS SUBCONTRACTOR'S KNOWLEDGE ALL MATERIALS AND PRODUCTS SPECIFIED OR RECALCULATED HEREIN ARE ACCEPTABLE FOR ALL APPLICABLE CODES AND AUTHORITIES.

"Bringing Structure to the World"

CONCESSION / RESTROOM BUILDING
 PROJECT B - GIRLS SOFTBALL RENOVATIONS AT YOUTH SPORTS COMPLEX
 407 W X ST. CITY OF DEER PARK, TEXAS

PROJECT PHASE
 Project Status
REVISIONS
 CITY OF DEER PARK
 Date Received
 AUG 11 2017
 ENGINEERING DEPARTMENT

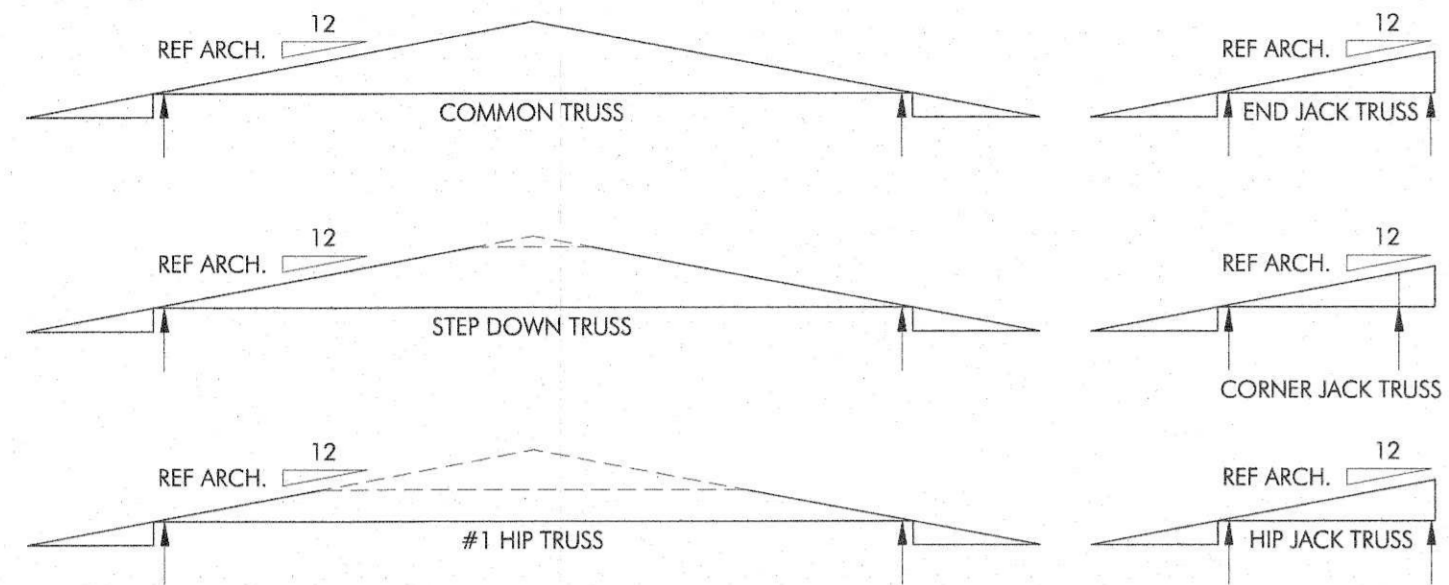
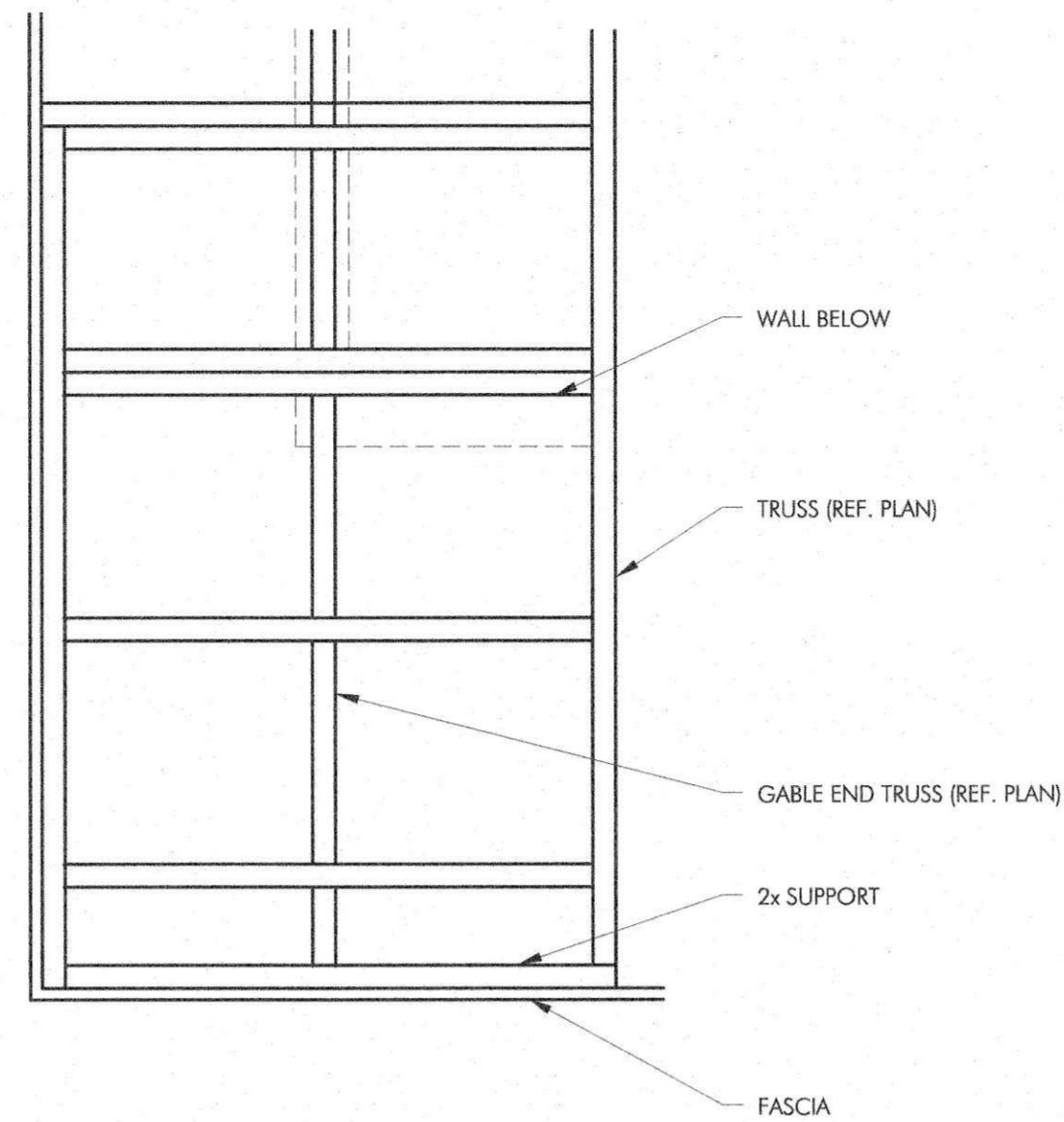
PROJECT NUMBER
 17010
DATE ISSUED
 03-20-2017
SHEET TITLE
 FOUNDATION DETAILS
SHEET NUMBER
 S200

**CONCESSION / RESTROOM
BUILDING**
PROJECT B - GIRLS SOFTBALL RENOVATIONS AT YOUTH SPORTS
COMPLEX
407 W X ST. CITY OF DEER PARK, TEXAS

PROJECT PHASE
Project Status
REVISIONS
CITY OF DEER PARK
Date Received
AUG 11 2017
ENGINEERING DEPARTMENT

PROJECT NUMBER
17010
DATE ISSUED
03-20-2017
SHEET TITLE
FRAMING DETAILS
SHEET NUMBER
S300

BLOCK LINTEL SCHEDULE			
NOTE: PROVIDE BLOCK LINTELS FOR ALL OPENINGS IN INTERIOR BLOCK PARTITIONS AND IN EXTERIOR BLOCK WALLS FOR WHICH STEEL LINTELS ARE NOT SCHEDULED. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS. PROVIDE 8" MINIMUM BEARING AT EACH END.			
<p>1 COURSE CONC. FILL (1) #4 CONT. 4" CMU</p>	<p>1 COURSE CONC. FILL (1) #6 CONT. 6" OR 8" CMU</p>	<p>2 COURSES CONC. FILL (1) #6 CONT. 6" OR 8" CMU</p>	<p>2 COURSES CONC. FILL (1) #4 CONT. 4" CMU</p>
OPENINGS LESS THAN 5'-0" WIDE		OPENINGS 5'-0" TO 10'-0" WIDE	



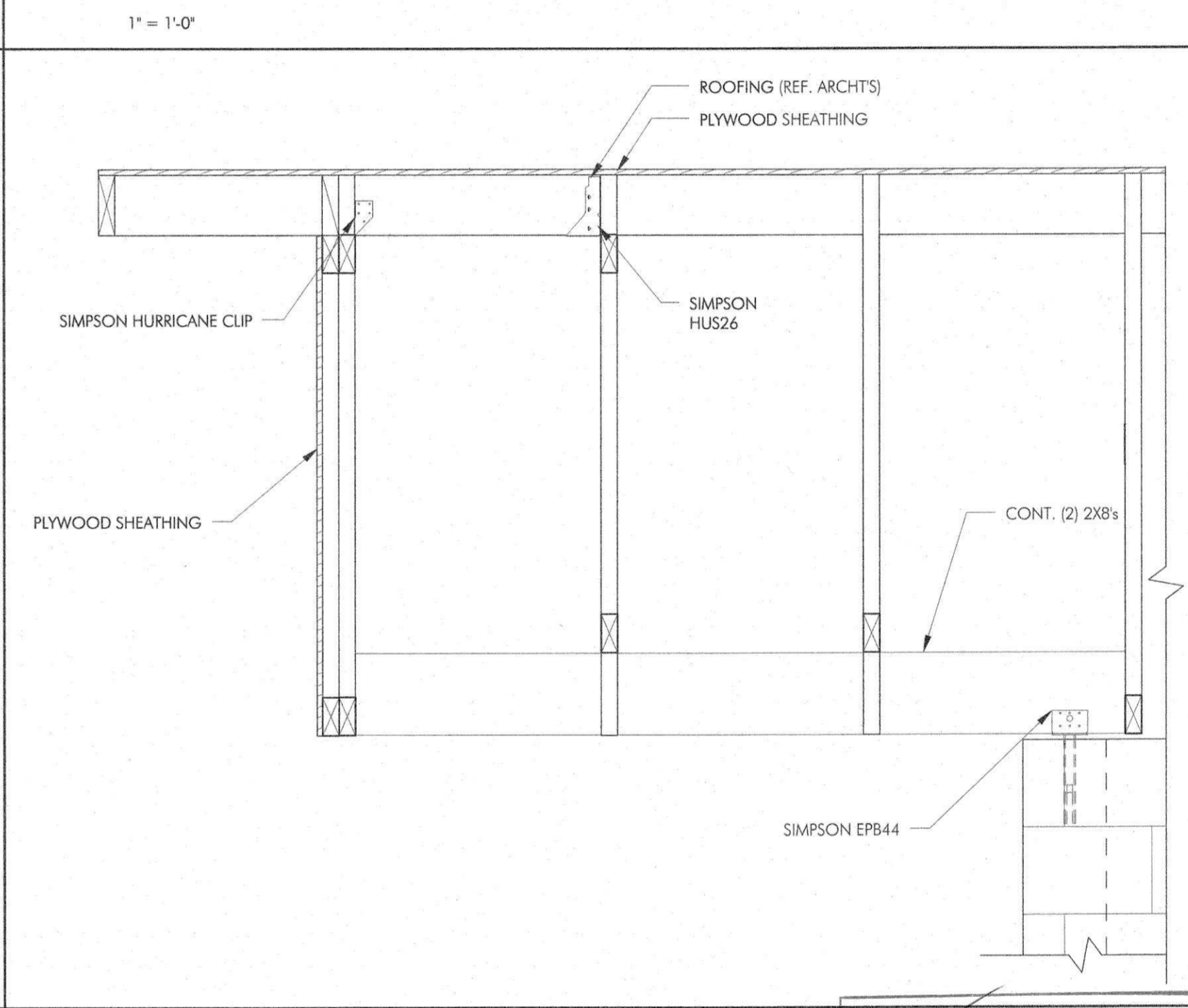
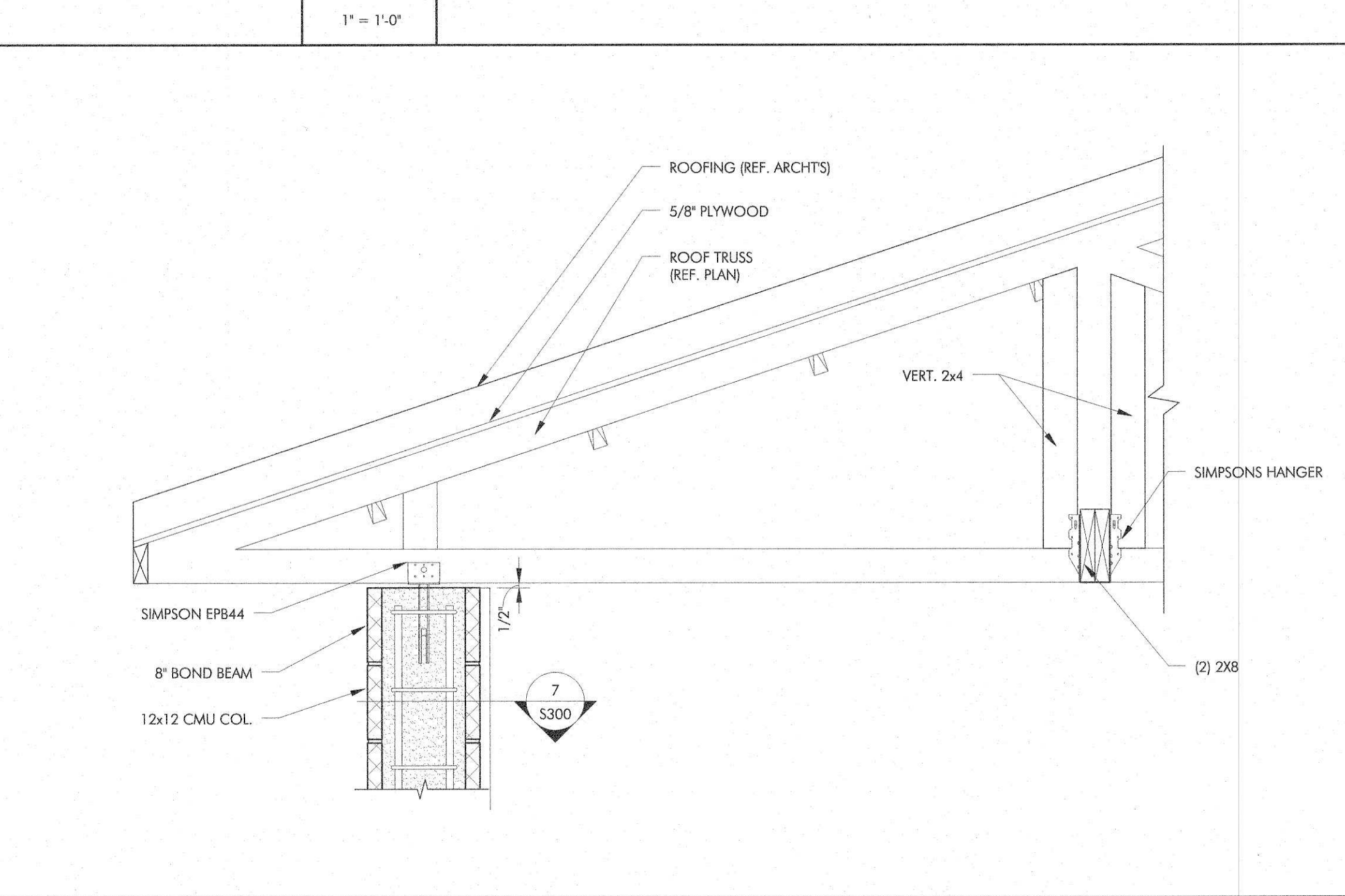
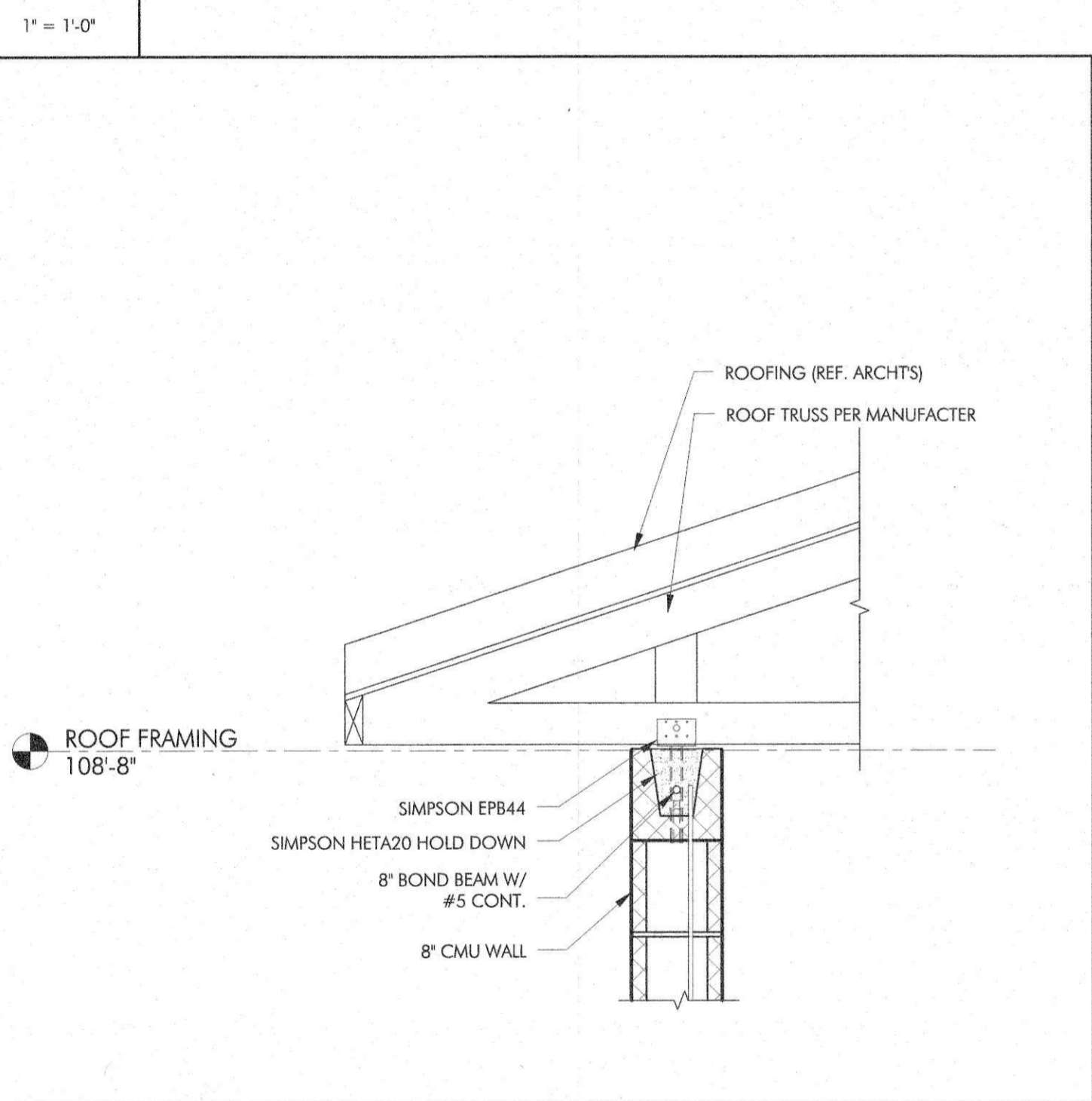
TRUSS NOTES:
LOADING: TOP CHORD DEAD LOAD = 10 PSF
LIVE LOAD = 20 PSF
TOP CHORD DEAD LOAD = 5 PSF
DURATION FACTOR OF 100%
UPLIFT = 25 PSF

TRUSSES TO BE DESIGNED AND FABRICATED IN ACCORDANCE WITH THE LATEST AISC SPECIFICATION AND BE EQUAL TO THAT MANUFACTURED BY ALPINE ENGINEERED PRODUCTS, INC. ALL TRUSSES TO BE ENGINEERED FOR THE LOADS INDICATED AND IN ACCORDANCE WITH APPLICABLE CODE LOADING AND THE MANUFACTURER SHALL SUBMIT SEALED ENGINEERING DRAWINGS FOR EACH TRUSS TYPE AND LENGTH.

1 SECTION

2 SECTION

3 BLOCK LINTEL SCHEDULE

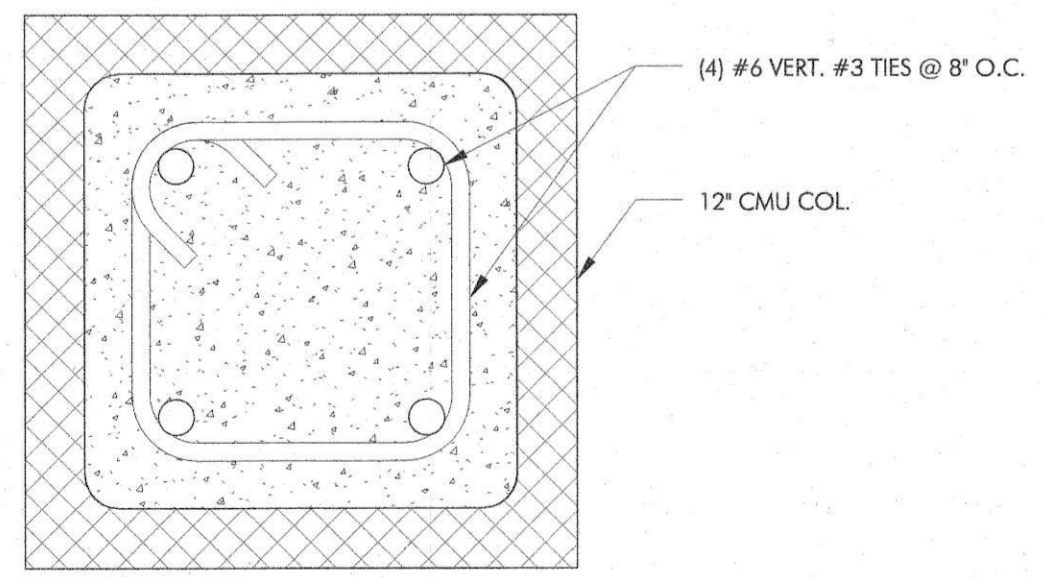


4 SECTION

5 SECTION

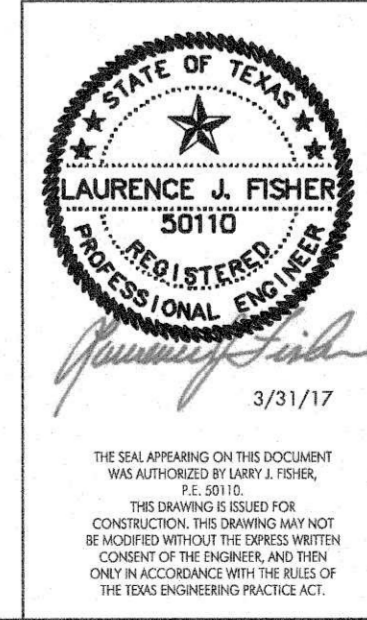
6 SECTION

APPROVED
 APPROVED AS NOTED
 DISAPPROVED
 REVISE & RESUBMIT
AUG 14 2017
CITY OF DEER PARK DATE



NOT USED

7 SECTION



NOTES:
1. THIS DOCUMENT, THE SEAL AND DESIGN INCORPORATED HEREIN ARE THE SOLE PROPERTY OF ENGINEERING 360, INC. THESE DOCUMENTS ARE NOT TO BE USED OR REPRODUCED IN WHOLE OR IN PART, FOR OTHER THAN THE ORIGINAL INTENDED USE, AND ARE NOT TO BE ASSIGNED TO ANY THIRD PARTY WITHOUT WRITTEN PERMISSION FROM ENGINEERING 360, INC.
2. BY THE ACT OF SUBMITTING A BID FOR THE PROPOSED CONTRACT, THE BIDDOR WARRANTS THAT THE BIDDOR AND ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS SHALL BE THOROUGHLY REVIEWED AND SPECIFICALLY REVIEWED FOR THE PURPOSES OF THE BIDDOR. THE BIDDOR WARRANTS THAT TO THE BEST OF HIS OR HIS SUBCONTRACTOR'S KNOWLEDGE AND BELIEF, ALL MATERIALS AND PRODUCTS SPECIFIED OR INDICATED HEREIN ARE ACCEPTABLE FOR ALL APPLICABLE CODES AND AUTHORITIES.

"Bringing Structure to the World"

DISTRIBUTION SYMBOL SCHEDULE

NOTES:
A. ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS.

SYMBOL	DESCRIPTION	REMARKS
—	HOMERUN (REFER TO PANEL SCHEDULES FOR CONDUIT/WIRING)	
—F	CIRCUIT ROUTED THRU CONTACTOR OR RELAY	
—UE	UNDERGROUND ELECTRIC	
—UT	UNDERGROUND TELEPHONE	
—OE	OVERHEAD ELECTRIC	
—OT	OVERHEAD TELEPHONE	
—H	CIRCUIT INDICATORS (HOT, NEUTRAL, GROUND, SWITCHLEG)	
⊙	PHOTOCELL	
⊙	JUNCTION BOX	
⊙	JUNCTION BOX, FLOOR MOUNTED FLUSH	
⊙	JUNCTION BOX, WALL MOUNTED - 3/4" TO ABOVE CEILING	
⊙	MANUAL STARTER WITH THERMAL TRIP	
⊙	DISCONNECT SWITCH, REFER TO DISCONNECT SCHEDULE	
⊙	STARTER	
⊙	COMBINATION STARTER/DISCONNECT SWITCH, REFER TO SCHEDULE	
⊙	POWER AND/OR LIGHTING PANELBOARD, REFER TO PANELBOARD SCHEDULE	
⊙	SWITCHBOARD, REFER TO SWITCHBOARD SCHEDULE	
⊙	TRANSFORMER, REFER TO TRANSFORMER SCHEDULE	

ELECTRICAL ABBREVIATION SCHEDULE

A	AMPERES	MECH	MECHANICAL
A/C	AIR CONDITIONING	MH	MANHOLE
AF	ABOVE FINISHED FLOOR	MIN	MINIMUM
AHJ	AUTHORITY HAVING JURISDICTION	MISC	MISCELLANEOUS
AL	ALUMINUM	ML	MAIN LUG ONLY
AUTO	AUTOMATIC	MSB	MAIN SWITCHBOARD
AUX	AUXILIARY	NEC	NATIONAL ELECTRICAL CODE
BFF	BELOW FINISHED FLOOR	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
BLOG	BUILDING	NF	NON-FUSED
C	CONDUIT	NFC	NOT IN CONTRACT
CB	CIRCUIT BREAKER	NTS	NOT TO SCALE
CKT	CIRCUIT	OC	ON CENTER(S)
COL	COLUMN	OE	OVERHEAD ELECTRIC
CONC	CONCRETE	OT	OVERHEAD TELEPHONE
CONST	CONSTRUCTION	PC	PLUMBING CONTRACTOR
CONTR	CONTRACTOR	PH	PHONE
CTV	CABLE TELEVISION	PNL	PANEL
DWG	DRAWING	PVC	POLYVINYL CHLORIDE
EC	ELECTRICAL CONTRACTOR	REF	REFERENCE/REFER TO
EF	EXHAUST FAN	RECP	RECEPTACLE
DN	DOWN	RGS	RIGID GALVANIZED STEEL CONDUIT
ELEC	ELECTRICAL/ELECTRICAL	RM	ROOM
EMF	ELECTRICAL METALLIC TUBING	SCH	SCHEDULE
EQUIP	EQUIPMENT	SPEC	SPECIFICATIONS
EX	EXISTING	TEL	TELEPHONE
FA	FIRE ALARM	TEL	TELEPHONE TERMINAL BOARD
FF	FINISHED FLOOR	UE	UNDERGROUND ELECTRIC
FLR	FLOOR/FLOORING	UL	UNDERWRITER'S LABORATORIES
G	GROUND	UON	UNLESS OTHERWISE NOTED
GC	GENERAL CONTRACTOR	UT	UNDERGROUND TELEPHONE
GFI	GROUND FAULT INTERRUPT	V	VOLTS/VOLTAGE
HD	HEAVY DUTY	VA	VOLTS-AMPERES
HP	HORSEPOWER	W	WATTS
IMC	INTERMEDIATE METAL CONDUIT	W/	WITH
KVA	KILOVOLT-AMPERES	W/O	WITHOUT
KW	KILOWATTS	WF	WEATHER PROOF
LGT	LIGHT/LIGHTING	XFMR	TRANSFORMER
MAX	MAXIMUM		
MC	MECHANICAL CONTRACTOR		
MCB	MAIN CIRCUIT BREAKER		
MDP	MAIN DISTRIBUTION PANEL		

BRANCH CIRCUIT WIRE AND CONDUIT SCHEDULE

NOTE:
A. PROVIDE INDIVIDUAL NEUTRALS FOR EACH CIRCUIT. NO SHARED NEUTRALS ALLOWED.

C - CONDUIT G - GROUND L - LINE OR PHASE N - NEUTRAL

MARK	WIRE AND CONDUIT	SYSTEM	MARK	WIRE AND CONDUIT	SYSTEM	MARK	WIRE AND CONDUIT	SYSTEM
1	2#12, 1/2" C.	LN	31	2#4, 1#8G, 1" C.	LLG	61	3#1/0, 1#6G, 2" C.	LLNG
2	2#12, 1#12G, 1/2" C.	LNG	32	3#4, 1" C.	LLL	62	3#1/0, 1#6G, 2" C.	LLLG
3	2#12, 1#12G, 1/2" C.	LLG	33	3#4, 1#8G, 1" C.	LLNG	63	4#1/0, 1#6G, 2" C.	LLLLG
4	3#12, 1/2" C.	LLL	34	3#4, 1#8G, 1" C.	LLG	64	2#2/0, 1 1/2" C.	LN
5	3#12, 1#12G, 1/2" C.	LLNG	35	4#4, 1#8G, 1 1/4" C.	LLLLG	65	2#2/0, 1#4G, 1 1/2" C.	LNG
6	3#12, 1#12G, 1/2" C.	LLLG	36	2#3, 1" C.	LN	66	2#2/0, 1#4G, 1 1/2" C.	LLG
7	4#12, 1#12G, 1/2" C.	LLLLG	37	2#3, 1#8G, 1" C.	LNG	67	3#2/0, 1 1/2" C.	LLL
8	2#10, 1/2" C.	LN	38	2#3, 1#8G, 1" C.	LLG	68	3#2/0, 1#4G, 2" C.	LLNG
9	2#10, 1#10G, 1/2" C.	LNG	39	3#3, 1" C.	LLL	69	3#2/0, 1#4G, 2" C.	LLLG
10	2#10, 1#10G, 1/2" C.	LLG	40	3#3, 1#8G, 1 1/4" C.	LLNG	70	4#2/0, 1#4G, 2" C.	LLLLG
11	3#10, 1/2" C.	LLL	41	3#3, 1#8G, 1 1/4" C.	LLLG	71	2#3/0, 1 1/2" C.	LN
12	3#10, 1#10G, 1/2" C.	LLNG	42	4#3, 1#8G, 1 1/4" C.	LLLLG	72	2#3/0, 1#4G, 2" C.	LNG
13	3#10, 1#10G, 1/2" C.	LLLG	43	2#2, 1" C.	LN	73	2#3/0, 1#4G, 2" C.	LLG
14	4#10, 1#10G, 1/2" C.	LLLLG	44	2#2, 1#8G, 1" C.	LNG	74	3#3/0, 2" C.	LLL
15	2#8, 1/2" C.	LN	45	2#2, 1#8G, 1" C.	LLG	75	3#3/0, 1#4G, 2" C.	LLNG
16	2#8, 1#10G, 3/4" C.	LNG	46	3#2, 1 1/4" C.	LLL	76	3#3/0, 1#4G, 2" C.	LLLG
17	2#8, 1#10G, 3/4" C.	LLG	47	3#2, 1#8G, 1 1/4" C.	LLNG	77	4#3/0, 1#4G, 2 1/2" C.	LLLLG
18	3#8, 3/4" C.	LLL	48	3#2, 1#8G, 1 1/4" C.	LLLG	78	2#4/0, 2" C.	LN
19	3#8, 1#10G, 3/4" C.	LLNG	49	4#2, 1#8G, 1 1/4" C.	LLLLG	79	2#4/0, 1#4G, 2" C.	LNG
20	3#8, 1#10G, 3/4" C.	LLLG	50	2#1, 1 1/4" C.	LN	80	2#4/0, 1#4G, 2" C.	LLG
21	4#8, 1#10G, 1" C.	LLLLG	51	2#1, 1#6G, 1 1/4" C.	LNG	81	3#4/0, 2" C.	LLL
22	2#6, 3/4" C.	LN	52	2#1, 1#6G, 1 1/4" C.	LLG	82	3#4/0, 1#4G, 2 1/2" C.	LLNG
23	2#6, 1#10G, 3/4" C.	LNG	53	3#1, 1 1/2" C.	LLL	83	3#4/0, 1#4G, 2 1/2" C.	LLLG
24	2#6, 1#10G, 3/4" C.	LLG	54	3#1, 1#6G, 1 1/2" C.	LLNG	84	4#4/0, 1#4G, 2 1/2" C.	LLLLG
25	3#6, 3/4" C.	LLL	55	3#1, 1#6G, 1 1/2" C.	LLLG			
26	3#6, 1#10G, 3/4" C.	LLNG	56	4#1, 1#6G, 1 1/2" C.	LLNG			
27	3#6, 1#10G, 3/4" C.	LLLG	57	2#1/0, 1 1/4" C.	LN			
28	4#6, 1#10G, 1" C.	LLLLG	58	2#1/0, 1#6G, 1 1/2" C.	LNG			
29	2#4, 3/4" C.	LN	59	2#1/0, 1#6G, 1 1/2" C.	LLG			
30	2#4, 1#8G, 1" C.	LNG	60	3#1/0, 1 1/2" C.	LLL			

DEVICE SYMBOL SCHEDULE

NOTES:
A. ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS.
B. ALL DEVICE PART NUMBERS ARE HUBBELL UNLESS OTHERWISE NOTED.

SYMBOL	DESCRIPTION	REMARKS
⊖	SINGLE RECEPTACLE 20A/120V 16" AFF UON	HBL 5361-I
⊖	DUPLEX RECEPTACLE 20A/120V 16" AFF UON	CR20-I
⊖	DUPLEX RECEPTACLE WITH DUAL USB 20A/120V 16" AFF UON	USB20X2W
⊖	DUPLEX RECEPTACLE 20A/120V 16" AFF UON WITH GROUND FAULT INTERRUPTER	GF20ILA
⊖	DUPLEX RECEPTACLE 20A/120V 16" AFF UON WITH ISOLATED/INSULATED GROUND	CR5352IG
⊖	FOURPLEX RECEPTACLE 20A/120V 16" AFF UON	(2) CR20-I
⊖	CLOCK RECEPTACLE 120V 96" AFF UON	HBL 5235
⊖	SPECIAL PURPOSE RECEPTACLE 16" AFF SEE PLANS FOR DETAILS	
⊖	CEILING MOUNTED DUPLEX RECEPTACLE 20A/120V (FLUSH)	CR20-I
⊖	DUPLEX RECEPTACLE 20A/120V MOUNTED HORIZONTALLY 48" AFF UON	CR20-I
⊖	FOURPLEX RECEPTACLE FOR PROJECTOR	
⊖	WEATHER/TAMPER-RESISTANT DUPLEX RECEPTACLE WITH "IN-USE" COVER 20A/120V 16" AFF UON	GFTR20I/ WP26M
⊖	B" ABOVE COUNTER - GFI	
⊖	DUPLEX RECEPTACLE W/ SURGE SUPPRESSION 20A/120V 16" AFF UON	IG5362-SA
⊖	SAFETY TYPE DUPLEX RECEPTACLE 20A/120V 16" AFF UON	CR20TR
⊖	DUPLEX RECEPTACLE, FLOOR MOUNTED FLUSH	CR20-1-PFBRG1 SB3083, S3825
⊖	FOURPLEX RECEPTACLE, FLOOR MOUNTED FLUSH	(2) HBL-5362-I, PFBRG2 SB3084, (2)S3825
⊖	EXISTING DUPLEX RECEPTACLE	
⊖	EXISTING FOURPLEX RECEPTACLE	
⊖	EXISTING 208V RECEPTACLE	
\$	SINGLE POLE SWITCH 20A, 48" AFF UON	CS120-I
\$	THREE-WAY SWITCH 20A, 48" AFF UON	CS320-I
\$	FOUR-WAY SWITCH 20A, 48" AFF UON	CS1224-I
\$	SINGLE POLE KEY OPERATED SWITCH 20A, 48" AFF UON	HBL 1221-RKL
\$	DIMMER SWITCH, 48" AFF UON, SEE PLANS FOR DETAILS	
\$	SWITCH WITH PILOT LIGHT, 48" AFF UON	HBL1221-PL
\$	TWO POLE SWITCH 20A, 48" AFF UON	CS1222-I
\$	TIMER SWITCH, 48" AFF UON	INTERMATIC FF60MC
\$	FAN SWITCH, 48" AFF UON	RF51
\$	WALL MOTION SENSOR: 48" AFF UON, (IR) INFRARED	WS1277-I
\$	WALL MOTION SENSOR: 48" AFF UON, (US) ULTRASONIC	AU1277I
\$	WALL MOTION SENSOR: 48" AFF UON, (DT) DUAL TECHNOLOGY	AD1277-II
M	MOTION SENSOR: US (ULTRASONIC)	ATU2000C
M	MOTION SENSOR: IR (INFRARED)	ATP1500C
M	MOTION SENSOR: DT (DUAL TECHNOLOGY)	ATD2000C

TELECOMMUNICATION/DATA SYMBOL SCHEDULE

NOTES:
A. ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS.
B. PROVIDE 3/4" CONDUIT TO ABOVE CEILING WITH PULLSTRING AND PLASTIC BUSHING FOR ALL DEVICES, U.O.N.
C. USE 4" x 4" x 2 1/8" JUNCTION BOX WITH SINGLE GANG PLASTER RING FOR ALL DEVICES.
D. ALL CABLING BY OWNER/OTHERS.

REMARKS:
1. 10 FEET SERVICE LOOP WITH DATA BISCUIT BOX ON END ABOVE CEILING, TIE OFF TO NEAREST JOIST. FINAL INSTALL OF AP DEVICE BY DISTRICT.

SYMBOL	DESCRIPTION	REMARKS
⊖	TELEPHONE OUTLET	
⊖	TELEPHONE OUTLET, FLOOR MOUNTED FLUSH	
⊖	TELEPHONE OUTLET, WALL MOUNTED	
⊖	COMBINATION SINGLE VOICE TELEPHONE/DUAL DATA	
⊖	COMBINATION SINGLE VOICE TELEPHONE/DUAL DATA, FLOOR MOUNTED FLUSH	
⊖	DUAL DATA OUTLET	
⊖	DUAL DATA OUTLET, FLOOR MOUNTED FLUSH	
⊖	DUAL DATA OUTLET, CEILING MOUNTED FLUSH	
⊖	TELEVISION OUTLET	
⊖	MUDRING WITH 3-PULL STRINGS TO ABOVE CEILING	
< AP	SINGLE DATA DROP FOR WIRELESS ACCESS POINT, (WALL MOUNT)	
⊖ AP	SINGLE DATA DROP FOR WIRELESS ACCESS POINT, (CEILING MOUNT)	1
⊖	AUDIO/VISUAL WALL MOUNTED OUTLET	

GENERAL NOTES

A. THE CONTRACTOR IS TO VISIT THE SITE PRIOR TO BID TO FAMILIARIZE HIMSELF WITH ALL CONDITIONS AS THEY EXIST. SUBMISSION OF BID INDICATES THE CONTRACTOR'S UNDERSTANDING OF EXISTING CONDITIONS AND HIS WILLINGNESS TO WORK WITH THESE CONDITIONS. NO ADDITIONAL TIME OR MONEY WILL BE ALLOTTED DUE TO LACK OF COORDINATION WITH EXISTING CONDITIONS OR OTHER TRADES.

B. CONTRACTOR IS TO REVIEW AND COMPARE ALL DRAWINGS SO ALL WORK IN THEIR RESPECTIVE TRADE IS INCLUDED IN BID. EACH CONTRACTOR SHALL INCLUDE ALL MATERIALS AND INSTALLATION REQUIRED FOR HIS PARTICULAR TRADE AFTER COMPLETE REVIEW OF ALL CONTRACT DRAWINGS AND SPECIFICATIONS.

C. ALL WORK SHALL COMPLY WITH THE CURRENT APPLICABLE LOCAL, STATE AND FEDERAL CODES AND ORDINANCES. FOLLOW RECOMMENDED PRACTICES AS SET DOWN BY NFPA, BUILDING CODE, MECHANICAL CODE, PLUMBING CODE, NATIONAL ELECTRICAL CODE, ADA AND OSHA, AS THEY APPLY TO THIS PROJECT, EXCEPT IN CASES WHERE LOCAL STATUTES GOVERN. THE CONTRACTOR SHALL VERIFY WITH AUTHORITY HAVING JURISDICTION THE LATEST ADOPTED LOCAL CODES, ORDINANCES AND AMENDMENTS THAT APPLY TO THIS PROJECT.

D. THE ELECTRICAL CONTRACTOR SHALL VERIFY SIZES OF BREAKERS, FUSES, WIRES, ETC., FOR ALL EQUIPMENT PROVIDED AND REPORT DISCREPANCIES TO THE ENGINEER/ARCHITECT PRIOR TO INSTALLATION OF CONDUIT. COORDINATE WITH MECHANICAL/ELECTRICAL COORDINATION SHEET PROVIDED BY MECHANICAL CONTRACTOR FOR ACTUAL EQUIPMENT BEING USED.

E. HOMERUNS SHALL BE COORDINATED WITH PANELBOARDS. ALL WIRING AND CONDUIT SHALL BE CONCEALED, EXCEPT IN ELECTRICAL ROOMS AND EXPOSED STRUCTURE AREAS.

F. ALL WIRING SHALL BE FREE OF SHORTS AND GROUNDS. NO WIRING SHALL BE LOADED BEYOND THE PERMITTED AMPACITIES ALLOWED BY CURRENT N.E.C. NO ALUMINUM WIRING ALLOWED.

G. MINIMUM WIRE/CONDUIT SIZES, EXCEPT FOR CLASS 2 LOW VOLTAGE CIRCUITS, ARE #12 AWG COPPER IN 1/2" CONDUIT. WHERE THE DISTANCE BETWEEN THE SUPPLYING PANEL AND THE FIRST BRANCH CIRCUIT RECEPTACLE OR LIGHT FIXTURE IS MORE THAN 100 FEET, UP SIZE CONDUCTOR TO ALLOW FOR MAXIMUM OF 3% VOLTAGE DROP FOR ACTUAL ROUTING OF CONDUITS TO DEVICE.

H. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, LABOR AND MATERIALS NECESSARY TO MAKE A COMPLETE AND WORKABLE SYSTEM.

I. CONFIRM THE EXACT LOCATION AND MOUNTING HEIGHTS OF LIGHTING FIXTURES WITH ARCHITECT BEFORE ROUGH-IN. COORDINATE REQUIRED CLEARANCES ABOVE FIXTURES WITH OTHER TRADES.

J. PROVIDE A TYPED PANEL DIRECTORY FOR ALL PANELBOARDS INDICATING FINAL INSTALLED CONDITION. CIRCUIT LABELING SHALL AGREE WITH EQUIPMENT DESIGNATIONS AND OWNERS FINAL ROOM NUMBERS.

K. LABEL ALL RECEPTACLES AND LIGHT SWITCHES WITH CIRCUIT NUMBER USING AN ELECTRONIC LABELER (BLACK ON CLEAR).

L. THE CONTRACTOR IS TO LAY OUT SERVICE ENTRANCE AND ELECTRIC ROOMS TO SCALE WITH ACTUAL GEAR TO BE INSTALLED TO ENSURE PROPER FIT AND CLEARANCES BEFORE INSTALLATION. COORDINATE ALL SERVICE CLEARANCE REQUIREMENTS WITH LOCAL UTILITY COMPANY. PROVIDE A 1/4" SCALE (MINIMUM) SHOP DRAWING. NOTIFY ARCHITECT/ENGINEERS OF ANY DIMENSIONAL PROBLEMS.

M. COORDINATE AND WIRE ALL DOOR HOLD OPEN DEVICES, AS REQUIRED. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS. ROUTE 120 VOLT POWER FROM NEAREST AVAILABLE CIRCUIT AS REQUIRED. PROVIDE ALL WIRING NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.

N. CONDUITS ROUTED TO ROOF SHALL BE INSTALLED IN SAME ROOF JACK AS MECHANICAL ELEMENTS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE ROOF JACK WHERE NO MECHANICAL ELEMENTS EXIST.

O. PROVIDE SLEEVES FOR SPECIAL SYSTEMS ABOVE EACH DOOR INTO A RATED EGRESS CORRIDOR, (1 - 2" AND 3 - 3/4"). FIRE SEAL ENDS AND UNUSED SLEEVES SHALL HAVE A SCREW CAP INSTALLED ON BOTH SIDES. USE THREADED CONDUIT.

P. ALL RECEPTACLES SERVING ELECTRIC WATER COOLERS SHALL BE LOCATED AT A HEIGHT SO AS NOT TO BE VISIBLE AFTER INSTALLATION OF EWC. COORDINATE MOUNTING HEIGHT WITH EQUIPMENT BEING PROVIDED. PROTECT WITH GFCI BREAKER.

Q. ALL CONDUITS ROUTED BELOW FINISHED FLOOR SHALL BE RUN BELOW THE GRADE BEAMS. CONDUITS AND MULTIPLE CONDUITS SHALL NOT PENETRATE GRADE BEAMS UNLESS COORDINATED WITH STRUCTURAL ENGINEER. OBTAIN WRITTEN APPROVAL FROM STRUCTURAL ENGINEER PRIOR TO BEGINNING WORK.

R. ALL EXPOSED CONDUIT SHALL BE RUN PARALLEL AND PERPENDICULAR TO STRUCTURE AND BUILDING LINES. COORDINATE FINAL CONDUIT ROUTING PATH WITH ARCHITECT AND ENGINEER PRIOR TO INSTALLATION.

S. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL 120 VOLT WIRING AND CONNECTIONS REQUIRED TO FIRE/SMOKE DAMPERS. COORDINATE EXACT LOCATIONS OF DAMPERS WITH MECHANICAL CONTRACTOR AND RELAY REQUIREMENTS WITH FIRE ALARM CONTRACTOR. CONNECT TO NEAREST AVAILABLE UNSWITCHED CIRCUIT UNLESS OTHERWISE INDICATED ON DRAWINGS.

T. ELECTRICAL CONTRACTOR SHALL CONNECT MOTORIZED BACK DRAFT DAMPERS FOR EXHAUST FANS FROM CIRCUIT FEEDING FAN. PROVIDE ALL MATERIAL AND LABOR TO MAKE CONNECTIONS.

U. ELECTRICAL CONTRACTOR SHALL WIRE ALL EXHAUST FANS TO BE CONTROLLED PER "EXHAUST FAN SCHEDULE" ON MECHANICAL SHEET. ELECTRICAL CONTRACTOR TO PROVIDE ALL RELAYS, CONTACTORS, SPRING WOUND TIMERS, ETC., AS REQUIRED PER SCHEDULE TO OPERATE AND CONTROL EXHAUST FAN. IF NO CONTROL IS SPECIFIED, EXHAUST FAN SHALL ENERGIZE WHEN LIGHTS IN ANY ROOM IT SERVES ARE POWERED ON. REFERENCE DETAIL ON ELECTRICAL SHEET FOR ADDITIONAL INFORMATION.

V. ELECTRICAL CONTRACTOR TO SEAL ALL PENETRATIONS OF ELECTRICAL WORK IN FIRE AND SMOKE RATED PARTITIONS, CEILINGS, ETC.

W. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECTING MEANS FOR ALL EQUIPMENT PER N.E.C. UNLESS OTHERWISE NOTED.

X. COORDINATE ALL DEVICES IN MILLWORK WITH ARCHITECTURAL MILLWORK SHOP DRAWINGS PRIOR TO ROUGH-IN.

Y. SENSOR OPERATED PLUMBING DEVICES: PLUMBING CONTRACTOR TO PROVIDE LOW VOLTAGE TRANSFORMERS FROM MANUFACTURER. ELECTRICAL CONTRACTOR IS TO PROVIDE ALL OTHER MATERIALS AND LABOR FOR COMPLETE INSTALLATION.

Z. SPRAY PAINT JUNCTION BOXES RED FOR FIRE ALARM SYSTEM. ALL OTHER SPECIAL SYSTEM JUNCTION BOXES TO BE PAINTED WHITE.

AA. DO NOT HANG ANY FIXTURES, EQUIPMENT OR CONDUIT FROM ROOF DECK.

BB. LABEL ALL JUNCTION BOXES WITH CIRCUIT NUMBERS.

CC. IDENTIFY RECEPTACLE CIRCUITS IN PANELBOARDS TO INDICATE FINAL ROOM NUMBERS. VERIFY FINAL ROOM NUMBERS PRIOR TO TYPING PANELBOARD SCHEDULES.

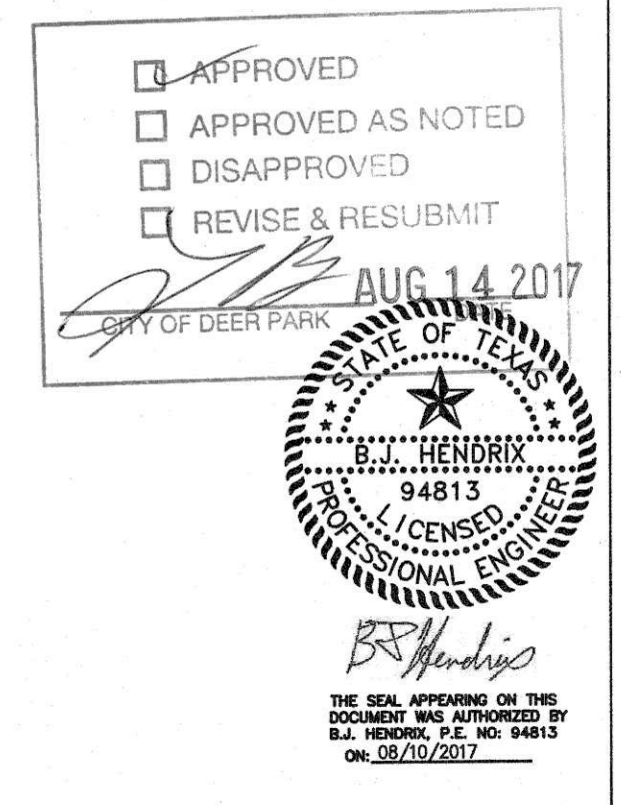
DD. MECHANICALLY FASTEN ALL LABELS TO EQUIPMENT.

EE. ELECTRICAL CONTRACTOR TO OBTAIN "MECH/ELEC COORDINATION SHEET" FILLED OUT FROM MECHANICAL CONTRACTOR. THIS SHEET IS TO BE INCLUDED WITH ELECTRICAL GEAR/PANELBOARD SUBMITTAL. SUBMITTAL WILL NOT BE CHECKED WITHOUT THIS FORM INCLUDED.

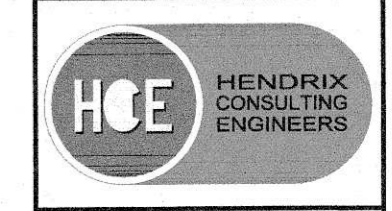
FF. ELECTRICAL CONTRACTOR IS TO PROVIDE ROUGH-IN FOR ALL MECHANICAL CONTROL DEVICES IN WALLS AND PENETRATIONS FOR CONTROL WIRES TO EXTERIOR UNITS. COORDINATE ALL LOCATIONS WITH MECHANICAL CONTRACTOR AND MECHANICAL SHEETS.

GG. DISCONNECTS MOUNTED ABOVE CEILING MUST BE MOUNTED TO BE READILY ACCESSIBLE NEAR UNIT. HANDLE TO BE NO MORE THAN 36" ABOVE CEILING GRID.

HH. ALL EXTERIOR DISCONNECTS ARE TO BE MOUNTED BELOW LINE OF SIGHT OF A SCREEN WALL OR IF SINGLE DISCONNECT, LEVEL WITH TOP OF CONDENSER. VERIFY LOCATION WITH ARCHITECT/ENGINEER PRIOR TO ROUGH-IN.



REFERENCE GENERAL NOTES ON SHEETS M1.1, P1.1 AND E1.1 FOR ADDITIONAL INFORMATION



This document, the ideas and designs incorporated herein are and shall remain the property of Hendrix Consulting Engineers. These documents are not to be used or altered, in whole or in part, for other than the original intended use, nor are they to be assigned to any third party without written permission from Hendrix Consulting Engineers. F - 4095

HCE job no.: 17-026



CONCESSION / RESTROOM BUILDING

SOCCER FIELD DEVELOPMENT PHASE 1

407 W X ST. CITY OF DEER PARK, TEXAS

PROJECT PHASE
BID - 8/10/2017

REVISIONS
CITY OF DEER PARK
Date Received
AUG 11 2017

ENGINEERING DEPARTMENT

PROJECT NUMBER
16123-00

DATE ISSUED
8/10/2017

SHEET TITLE
SCHEDULES, NOTES, AND LEGENDS - ELECTRICAL

SHEET NUMBER
E-1.1

MISCELLANEOUS EQUIPMENT SCHEDULES

GENERAL NOTES:

- A. ELECTRICIAN TO PROVIDE 120V POWER TO ALL EQUIPMENT FROM NEAREST PANEL HAVING CAPACITY, UNLESS OTHERWISE NOTED.
- B. ELECTRICAL CONTRACTOR IS TO PROVIDE ALL PARTS AND LABOR TO MAKE FINAL CONNECTIONS TO ALL EQUIPMENT SHOWN IN CONTRACT DOCUMENTS. POWER MAY BE SHOWN IN GENERAL LOCATION. IT IS EXPECTED THAT THE ELECTRICAL CONTRACTOR COORDINATE FINAL LOCATION FOR ROUGH-IN AND CONNECTION REQUIREMENTS WITH EXACT EQUIPMENT BEING INSTALLED. THESE ITEMS INCLUDE, BUT NOT LIMITED TO, BOOK SECURITY, EXHAUST FANS, KILNS, HAND DRYERS, SENSOR OPERATED PLUMBING DEVICES, ELECTRIC OVERHEAD DOORS, FIRE SMOKE DAMPERS, AIR PURIFICATION UNITS, ETC.

MOTION SENSORS

PROVIDE MOTION SENSORS AS SHOWN ON PLANS. PROVIDE DUAL TECHNOLOGY MOTION SENSORS IN EVERY ROOM OVER 250 SQ.FT. WIRE SO THAT MOTION SENSOR ACTIVATES SWITCHES ON WALL.

POWER FOR SPECIAL SYSTEMS POWER SUPPLIES

1. ELECTRICAL CONTRACTOR TO PROVIDE POWER TO ALL SECURITY, FIRE ALARM, ACCESS CONTROL, ETC. POWER SUPPLIES. COORDINATE EXACT LOCATION WITH SPECIAL SYSTEMS CONTRACTOR AND FLOOR PLANS. PROVIDE DEDICATED LOW VOLTAGE CIRCUIT TO NEAREST PANEL HAVING CAPACITY U.O.N.
2. LABEL ALL SPECIAL SYSTEMS POWER SUPPLIES WITH PANEL AND CIRCUIT NUMBERS.

SENSOR OPERATED PLUMBING DEVICES

PLUMBING CONTRACTOR TO PROVIDE LOW VOLTAGE TRANSFORMERS FROM MANUFACTURER. ELECTRICAL CONTRACTOR IS TO PROVIDE ALL OTHER MATERIALS AND LABOR FOR COMPLETE INSTALLATION.

ESC-17

DISCONNECT SWITCH SCHEDULE

REMARKS:

- A. COORDINATE FINAL FUSE SIZES WITH EQUIPMENT BEING PROVIDED PRIOR TO ROUGH-IN.
- B. WHEN THE LENGTH OF THE SECONDARY CONDUCTORS OF ANY TRANSFORMER EXCEEDS TEN FEET, PROVIDE AN ENCLOSED CIRCUIT BREAKER OR FUSED DISCONNECT WITHIN TEN FEET OF THE TRANSFORMER SECONDARY TERMINALS IN ACCORDANCE WITH NEC ARTICLE 240-21(C)(2). THIS OVERCURRENT DEVICE SHALL HAVE AN AMP RATING EQUAL TO THE AMP RATING OF THE PANEL BEING SERVED. THE PANEL BEING FED MAY BE CHANGED TO MAIN LUG ONLY.
- C. PROVIDE LUG KITS AND/OR WIRING GUTTERS FOR PANELS WITH OVERSIZED CONDUCTORS DUE TO VOLTAGE DROP AND/OR DISTANCE. MAKE CONNECTIONS IN ACCORDANCE WITH THE N.E.C.
- D. PROVIDE SHOP DRAWINGS OF ALL ELECTRIC ROOMS INDICATING ALL PANEL, TRANSFORMER AND DISCONNECT LOCATIONS. ELECTRICAL EQUIPMENT MAY SHIFT IN LOCATION TO INSURE PROPER CLEARANCES.
- E. PROVIDE DISCONNECTING MEANS FOR ALL EQUIPMENT PER N.E.C.
- F. DISCONNECTS MOUNTED ABOVE CEILING MUST BE MOUNTED TO BE READILY ACCESSIBLE NEAR UNIT. HANDLE TO BE NO MORE THAN 36" ABOVE CEILING GRID.
- G. ALL EXTERIOR DISCONNECTS ARE TO BE MOUNTED BELOW LINE OF SIGHT OF A SCREEN WALL OR IF SINGLE DISCONNECT, LEVEL WITH TOP OF CONDENSER. VERIFY LOCATION WITH ARCHITECT/ENGINEER PRIOR TO ROUGH-IN.

MARK	VOLTAGE		AMPERES RATING										POLES			ENCLOSURE	FUSES	REMARKS
	120	240	277	480	1	2	3	3	3	3	3	3	3	3	3	3	3	
1																	400	PANEL 'L1'
2																	20	EUH-1
3																	30	WATER HEATER 'WH'
4																		
5																		

SPECIAL SYSTEMS SCOPE

FIRE ALARM SYSTEM

1. NONE

INTERCOM

1. NONE

TECHNOLOGY

1. NONE OR BY OWNER

ACCESS/ CONTROL SECURITY

1. NONE OR BY OWNER

HVAC CONTROLS DDC

1. NONE

NLIGHT - DEVICE SYMBOL SCHEDULE

NOTES:

- A. ALL SYMBOLS DO NOT NECESSARILY APPEAR ON THESE DRAWINGS.
- B. ALL DEVICE PART NUMBERS ARE NLIGHT UNLESS OTHERWISE NOTED.
- C. THESE DEVICES SHOULD BE USED IN ALL AREAS TO BE CONTROLLED BY NLIGHT.
- D. MOTION SENSOR: WHERE MOTION SENSORS ARE SHOWN ON THE PLANS, THAT INDICATES AREA SHOULD BE COVERED IN FULL BY MOTION SENSORS. IT IS UP TO MOTION SENSOR PROVIDER TO PROVIDE APPROPRIATE QUANTITY AND LAYOUT OF MOTION SENSORS FOR COMPLETE COVERAGE. PROVIDE SHOP DRAWING AT SUBMITTAL PHASE.
- E. PHOTOCELL: WHERE PHOTOCELLS ARE SHOWN ON PLANS OR IN TYPICAL DETAILS, IE: CLASSROOMS. PHOTOCELLS ARE INTENDED TO DIM LIGHTS IN DAYLIGHT ZONES AS INDICATED BY IECC 2015. IF MULTIPLE ZONE CONTROL IS INDICATED FOR A SPACE AND THOSE ZONES ARE NOT CLEAR TO CONTRACTOR, THE CONTRACTOR IS TO MAKE BEST ASSUMPTION IN SHOP DRAWING PHASE AND NOTE AREAS IN QUESTION. ENGINEER WILL REVIEW AND MAKE ANY ADJUSTMENTS TO ZONES AT THAT TIME. MANUFACTURER TO PROVIDE A COMPLETE SET OF SHOP DRAWINGS INDICATING ALL ASPECTS OF LIGHTING CONTROL AT A MINIMUM OF 1/8" = 1' SCALE WITH CLEAR DESCRIPTIONS AND LEGENDS FOR SYMBOLS.
- F. BASIC COMPONENTS ARE CALLED FOR HERE, IT IS EXPECTED THAT MANUFACTURER PROVIDES ALL COMPONENTS FOR A COMPLETE WORKABLE SYSTEM.
- G. FACTORY START-UP IS REQUIRED FOR ALL NLIGHT SPACES.
- H. CONTRACTOR SHOULD SEND COMPLETE SET OF ELECTRICAL PLANS TO NLIGHT FACTORY REP TO ENSURE A COMPLETE BID.
- I. CONTRACTOR TO ASSUME ALL DEVICES INTER-CONNECTED WITH CAT-5 CABLE. PROVIDE ALL REQUIRED CABLING BETWEEN DEVICES.

SYMBOL	DESCRIPTION	REMARKS
§ ^D	DIMMER	nPODM-DX
§ ^{DT}	DUAL TECHNOLOGY WALL MOUNT MOTION AND DIMMING	nWSX-PDT-SA
§ ^{C1}	ONE ZONE CONTROLLER, ON/OFF AND DIMMING	nPODM-DX
§ ^{C2}	TWO ZONE CONTROLLER, ON/OFF AND DIMMING	nPODM-2P-DX
§ ^{C3}	THREE ZONE CONTROLLER, 3 PRESET TOGGLE BUTTONS	---
§ ^{C4}	FOUR ZONE CONTROLLER, 4 PRESET TOGGLE BUTTONS	---
IMDT	MOTION SENSOR, DT (DUAL TECHNOLOGY)	nCM-PDT-9;nWV-PDT-16
Ⓟ	PHOTOCELL	nCM-ADCX

NLIGHT INTERIOR LIGHTING SCHEDULE

GENERAL NOTES:

POWER PACKS

FOR FIXTURES THAT ARE NOT NLIGHT COMPATIBLE, PROVIDE POWER PACKS TO ACHIEVE ZONING INDICATED ON PLANS.

AREAS WITH HIGH CEILINGS(25FT OR HIGHER). PROVIDE POWER PACKS TO ACHIEVE ZONING INDICATED ON PLANS. LOCATE POWER PACKS IN ACCESSIBLE LOCATION FROM LIGHTING PANEL SERVING CIRCUITS.

WHEN POWER PACKS ARE PROVIDED. CONTRACTOR MUST PROVIDE 0-10V DIMMING WIRES FROM POWER PACK TO FIXTURE FOR CONTROL IN LIEU OF CATS CABLE.

MOTION SENSORS

PROVIDE MOTION SENSORS AS SHOWN ON PLANS. PROVIDE DUAL TECHNOLOGY MOTION SENSORS IN EVERY ROOM AS REQUIRED BY IECC 2015.

CONTROL STATION

ALL ROOMS SHALL HAVE A CONTROL STATION FOR CONTROL OF LIGHTS IN ROOM. IF NO CONTROL STATION IS SHOWN, ASSUME A TWO ZONE CONTROLLER FOR ROOMS LARGER THAN 9' X 9' AND A WALL MOUNT DUAL TECHNOLOGY CONTROLLER FOR ROOMS SMALLER THAN 9' X 9'.

SPACE TYPE DESCRIPTION:

GANG RESTROOMS

- A. PROVIDE MOTION SENSOR AS SHOWN ON PLANS. WHEN MOTION IS NOT DETECTED LIGHTS SHOULD BE DIMMED TO 25% FOR 5 MIN THEN TO 0% IF NO ADDITIONAL MOTION IS DETECTED.

SINGLE ZONE ROOMS

- A. PROVIDE CONTROL STATIONS AS SHOWN ON PLANS.
- B. ONE OVERALL ZONE TO CONTROL ALL LIGHTS IN ROOM.
- C. PROVIDE COMPLETE MOTION SENSOR COVERAGE. SHOP DRAWING REQUIRED.

ESC-08

SPECIAL SYSTEM SYMBOL SCHEDULE

NOTE:

- A. REFERENCE DISTRICT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- B. THIS IS FOR GENERAL LOCATION ONLY. ALL DEVICES AND CABLING PER DISTRICT SPECIFICATIONS.

SYMBOL	DESCRIPTION	REMARKS
Ⓜ	HAND DRYER	
Ⓜ	DISHWASHER	
Ⓜ	CIRCULATING FAN POWER	

LIGHT FIXTURE SCHEDULE

GENERAL NOTES:

- A. CONFIRM CEILING TYPE AND CONSTRUCTION PRIOR TO ORDERING LIGHT FIXTURE. PROVIDE FLANGE KIT FOR PROPER INSTALLATION OF LAY-IN FIXTURE IN GYPSUM CEILING. PROVIDE FIXTURE TYPE 'H2' IN LIEU OF FIXTURE TYP 'A2' IN ROOMS WITH NO CEILING. CHAIN HANG AT 10' A.F.F.
- B. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF WALL MOUNTED LIGHT FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN.
- C. REFER TO ARCHITECTURAL REFLECTIVE CEILING PLAN FOR EXACT LOCATION OF LIGHT FIXTURE.
- D. CONFIRM FINISH WITH ARCHITECT PRIOR TO ORDERING LIGHT FIXTURES.
- E. 'E' DESIGNATION ADJACENT TO LIGHTING FIXTURE TYPE INDICATES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY PACK UNIT (LITHONIA PS1400 OR EQUAL). LIGHT FIXTURE SHALL BE SWITCHED, BATTERY PACK SHALL BE UNSWITCHED.
- F. 'N' DESIGNATION ADJACENT TO LIGHTING FIXTURE TYPE INDICATES FIXTURE SHALL BE PROVIDED WITH EMERGENCY BATTERY PACK UNIT (LITHONIA PS1400 OR EQUAL). LIGHT FIXTURE AND BATTERY PACK SHALL BE UNSWITCHED.
- G. FIXTURES SHALL HAVE A MAXIMUM OF TWO (2) LAMPS PER BALLAST.
- H. CONNECT ALL EXIT LIGHTING TO THE NEAREST UNSWITCHED CIRCUIT OR THE NEAREST EMERGENCY CIRCUIT.
- (*) PROVIDE UNIT PRICE FOR THIS FIXTURE. INCLUDE MATERIAL AND LABOR TO BE ADDED AT ANY TIME DURING THE PROJECT.

MARK	MANUFACTURERS CATALOG NUMBER	LAMPS / TYPE / WATTS	FIXTURE VOLTS / WATTS	DESCRIPTION AND COMMENTS
J2	LITHONIA VAP LED-4000LM-FST-MD-MVOLT-120DIMMING-35K-80CRI-N100	1/LED 5200L/42	MVOLT/42	ENCLOSED LED WET LOCATION STRIP WITH ENERGY SAVING LAMPS. HIGH IMPACT LENS. WHITE FINISH. 120DIM, NLIGHT
J3	LITHONIA VAP LED-6000LM-FST-MD-MVOLT-120DIMMING-35K-80CRI-N100	1/LED 6630/62	MVOLT/62	ENCLOSED LED WET LOCATION STRIP WITH ENERGY SAVING LAMPS. HIGH IMPACT LENS. WHITE FINISH. 120DIM, NLIGHT
L1	LITHONIA LDN6-35-1000-L06-AR-MVOLT	1/LED 1000 LUMENS/18	MVOLT/18	6" LED DOWNLIGHT SEMI SPECULAR REFLECTOR. TRIM TO MATCH CANOPY OR SILVER. PROVIDE 'EL' BATTERY WHEN SPECIFIED.
T1 (ed)	VISIONAIRE LIGHTING VSC-1-T2-32-530-4000K-UNV-WM-SL-PC120	1/LED ENGINES/54	MVOLT/54	SLIM ARCHITECTURAL WALL MOUNTED LED FIXTURE WITH DIE CAST ALUMINUM HOUSING, ALUMINUM REFLECTOR WITH FULL CUT-OFF, HIGH EFFICIENCY DRIVER. DARK BRONZE FINISH. COORDINATE FINAL HEIGHT WITH ARCHITECTURAL.
X1	LITHONIA LESW-1R-MVOLT-ELN	INCLUDED	MVOLT/5	LED SINGLE FACE EXIT SIGN WITH DIE CAST ALUMINUM HOUSING, EMERGENCY BATTERY PACK. WHITE FINISH.
Y1	LITHONIA ELM2-LED	INCLUDED	MVOLT/20	EMERGENCY EGRESS FIXTURE WITH POLYCARBONATE HOUSING, EMERGENCY BATTERY PACK AND AMMETER. WHITE FINISH. MOUNT FIXTURE ON WALL, AS HIGH AS POSSIBLE. CONNECT TO NEAREST UNSWITCHED 120 VOLT CIRCUIT.

CEILING FANS

CEILING FAN (CF-1, 2):

HUNTER ORIGINAL CLASSIC CEILING FAN MANUFACTURED BY HUNTER. 52" DIAMETER. PROVIDE PROPER LENGTH MOUNTING STEM FOR HEIGHT SPECIFIED ON PLANS. KEEP MANUFACTURER MINIMUM CLEARANCE BETWEEN FAN BLADES AND CEILING. FAN SPEED IS VARIABLE. FANS TO BE BROWN, BLADES BROWN. IF LIGHT KIT IS CALLED FOR MUST BE APPROVED BY ARCHITECT. CONTACT MIKE AT "TEXAS CEILING FAN" 512-477-3132. (QUANTITY PER PLANS). COORDINATE STEM LENGTHS WITH FINAL MOUNTING HEIGHT. PROVIDE \$100 ALLOWANCE PER LIGHT KIT. NO EXCEPTIONS ON FAN MODEL.

BROWN - #23847
WHITE - #23845
BLACK - #23838

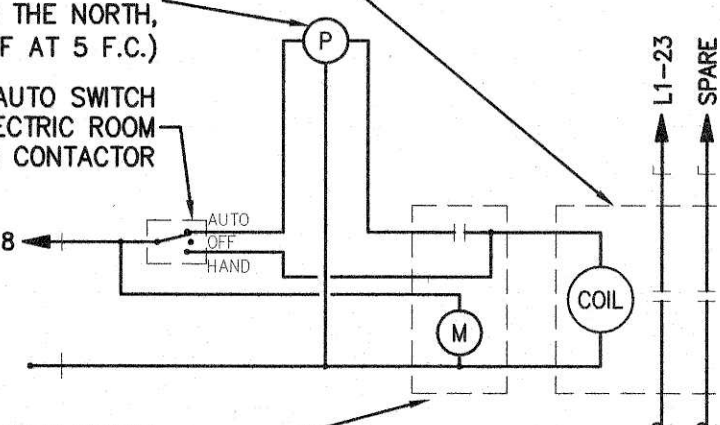
MARK NO.	STOCK / MODEL NUMBER	MAX RPM	HP	VOLT/PH/AMPS	BLADE DIAMETER	WEIGHT
CF-1	HUNTER ORIGINAL #23847 (BRN)		FRACTION	120/1/1.1	52"	30

LIGHTING CONTACTOR SQ-D #LH-20 (120 VOLT) OR EQUAL, LOCATED IN ELECTRIC ROOM

PHOTOCELL, TORK #2001 (120 VOLT) MOUNTED ON ROOF AND ORIENTED TO THE NORTH, (ON/OFF AT 5 F.C.)

HAND-OFF-AUTO SWITCH LOCATED IN ELECTRIC ROOM NEXT TO CONTACTOR

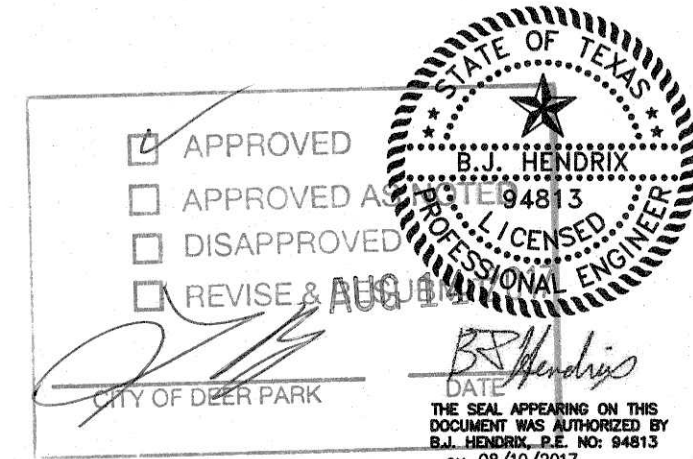
ELECTROMECHANICAL TIME CLOCK, 7-DAY ASTRONOMIC TORK 7200Z LOCATED NEXT TO CONTACTOR



LIGHTING CONTACTOR DETAIL

SCALE: NONE

EDE-11



REFERENCE GENERAL NOTES ON SHEETS M1.1, P1.1 AND E1.1 FOR ADDITIONAL INFORMATION



This document, the ideas and designs incorporated herein are and shall remain the property of Hendrix Consulting Engineers. These documents are not to be used or altered, in whole or in part, for other than the original intended use, nor are they to be assigned to any third party without written permission from Hendrix Consulting Engineers. F-4095
HCE job no.: 17-026



1102 | s. austin ave, suite 103
georgetown, tx 78626
ryan@modedc.us | www.modedc.us
+ 1 512 733 1150

CONCESSION / RESTROOM BUILDING

SOCCER FIELD DEVELOPMENT PHASE 1
407 W X ST. CITY OF DEER PARK, TEXAS

PROJECT PHASE

BID - 8/10/2017

REVISIONS

CITY OF DEER PARK

Date Received

AUG 11 2017

ENGINEERING DEPARTMENT

PROJECT NUMBER

16123-00

DATE ISSUED

8/10/2017

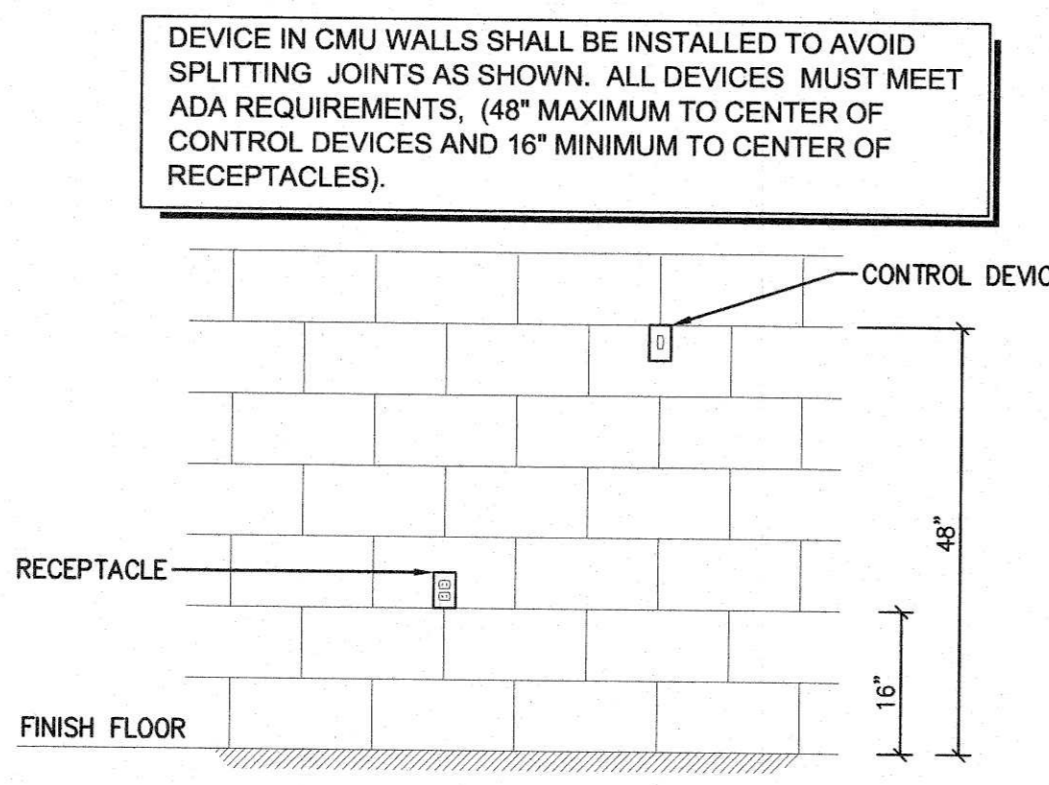
SHEET TITLE

SCHEDULES -

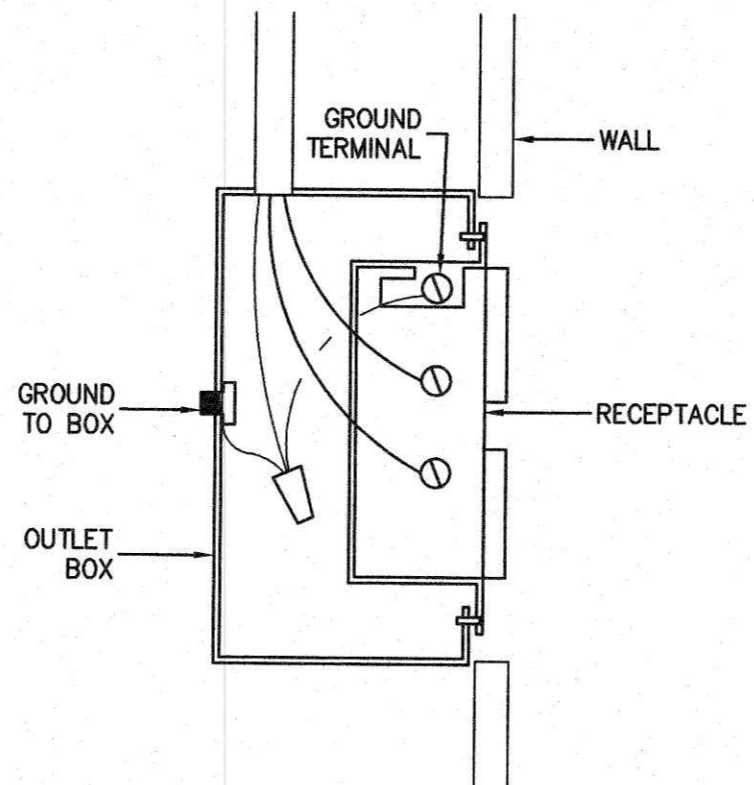
ELECTRICAL

SHEET NUMBER

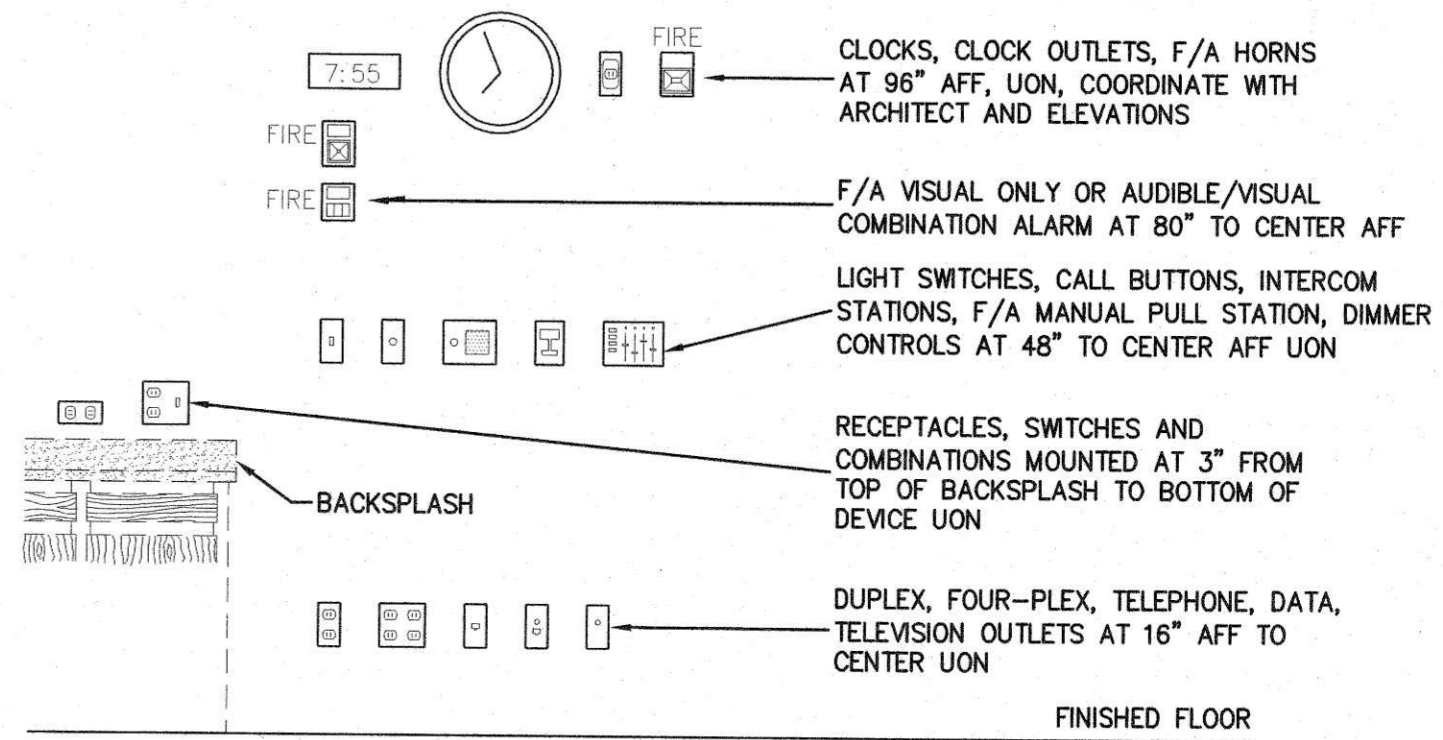
E-1.2



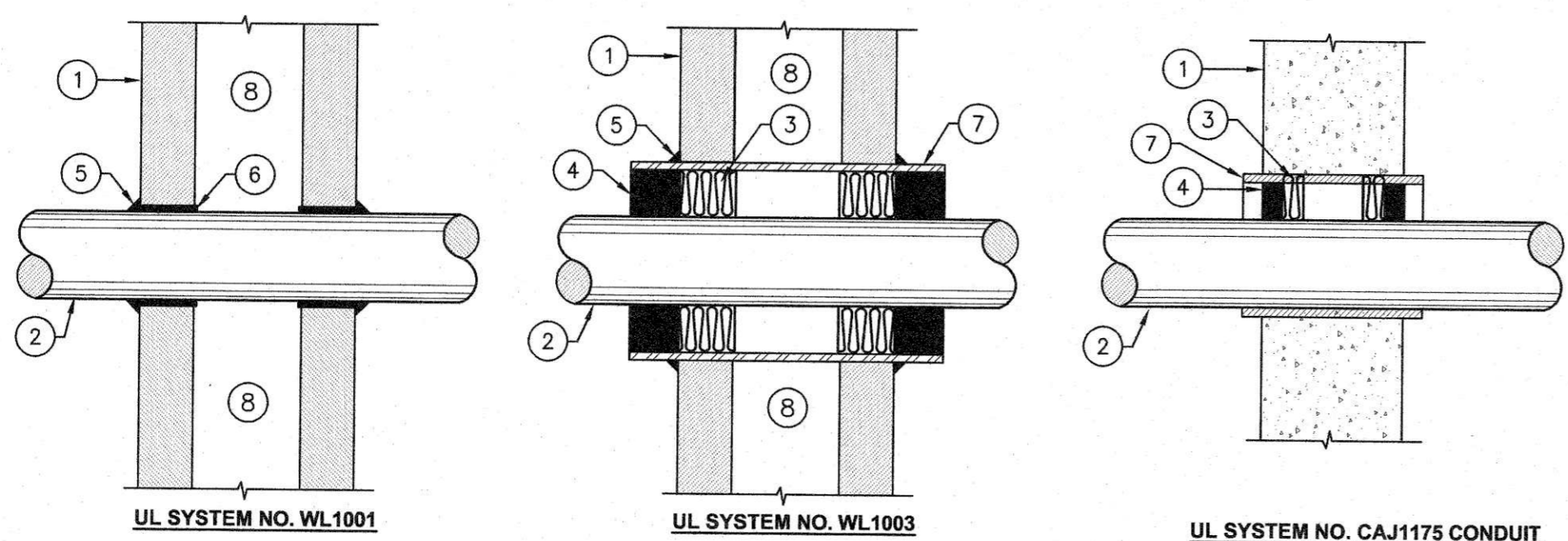
CMU DEVICE DETAIL
NO SCALE EDE-59



RECEPTACLE GROUNDING DETAIL
NO SCALE EDE-57

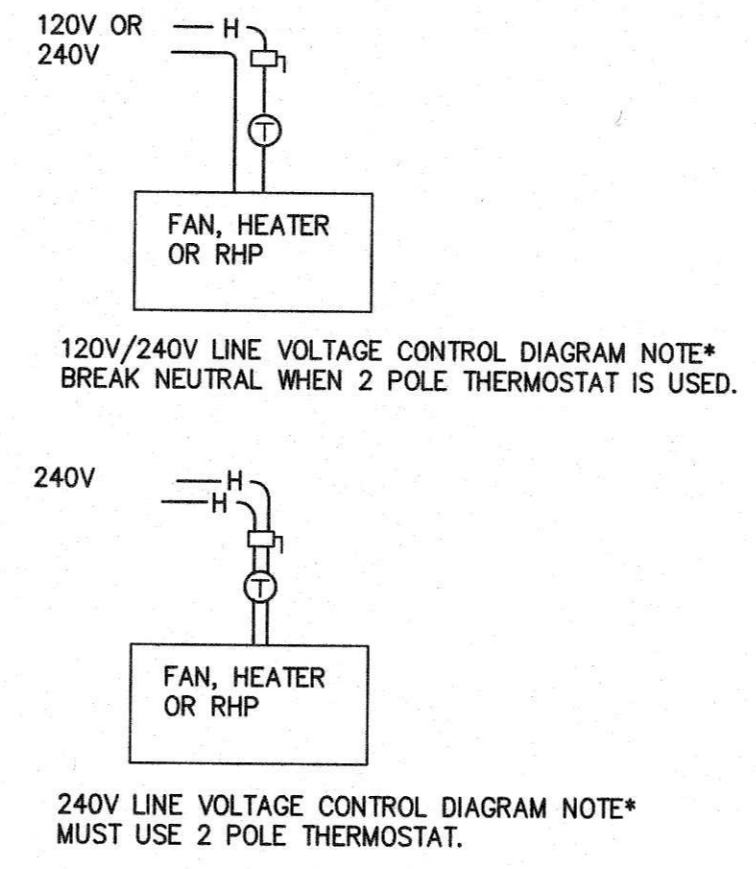


MOUNTING HEIGHT DETAIL
NO SCALE EDE-10

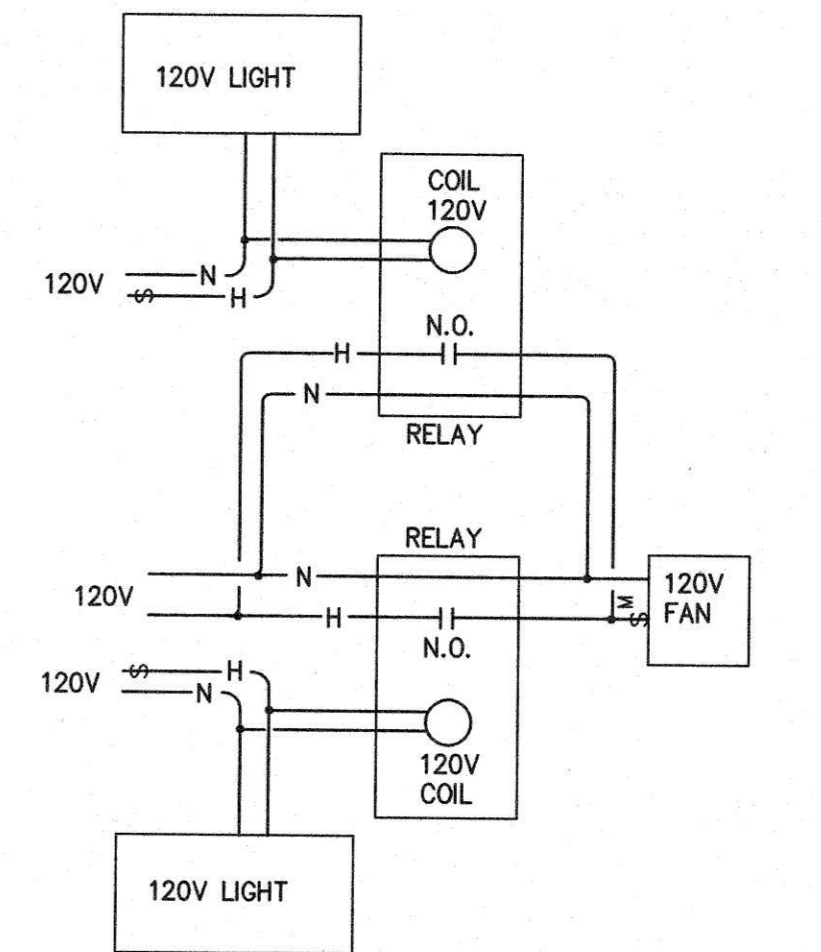


- KEYED NOTES**
- 1 RATED WALL BARRIER
 - 2 PIPE OR CONDUIT
 - 3 FORMING MATERIAL (MINERAL - WOOL BATT INSULATION)
 - 4 FIRE CAULK
 - 5 FIRE CAULK - CONTINUOUS BEAD AROUND PENETRATING ITEM
 - 6 FIRE CAULK - CONTINUOUSLY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT THROUGHOUT THICKNESS OF WALL BOARD LAYERS
 - 7 SLEEVE FOR UL SYSTEM NO. WL1003, OPTIONAL FOR UL SYSTEM NO. CAJ1175
 - 8 WALL CAVITY
- GENERAL NOTES**
- A. REFERENCE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL RATED WALLS, FLOORS AND CEILINGS.
 - B. REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION CONCERNING MATERIALS AND METHODS.
 - C. REFERENCE UL FIRE RESISTANCE DIRECTORY FOR ADDITIONAL DATA, INCLUDING WALL RATINGS FOR WHICH DETAILS ARE AND SUPPORT REQUIREMENTS.
 - D. ALL MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH UL SYSTEM NUMBER AND MANUFACTURER'S INSTRUCTIONS PROVIDED WITH MATERIALS.
 - E. ONLY MATERIALS TESTED FOR SPECIFIC UL SYSTEM NUMBER MAY BE USED.
 - F. ANNULAR SPACE BETWEEN FIRE BARRIER SURFACE AND PENETRATING ITEM IS EXTREMELY CRITICAL. REFER TO PARTICULAR UL SYSTEM NUMBER AND FIRE RATING FOR THIS CRITERIA.

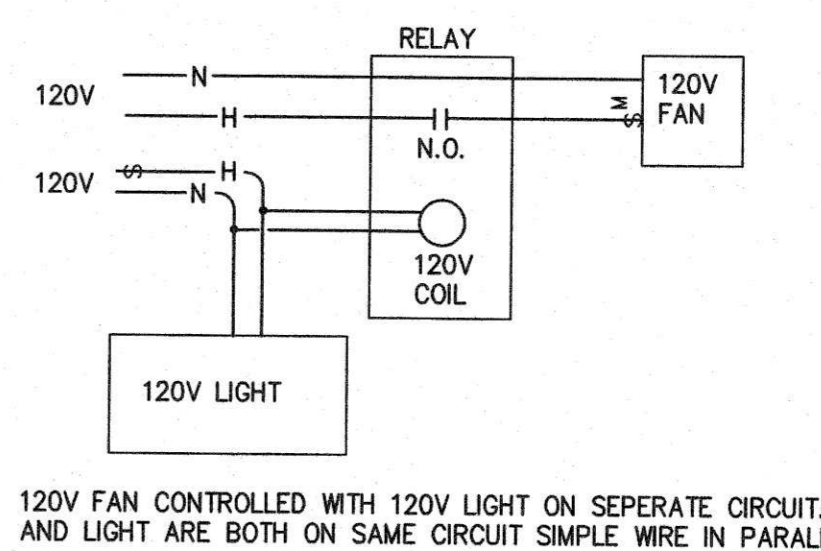
TYPICAL CONDUIT PENETRATION
NO SCALE (FIRE RATED GYPSUM/STUD WALL ASSEMBLY AND CONCRETE WALL/FLOOR ASSEMBLY) EDE-96



EXHAUST FAN/HEATER CONTROL
SCALE: NONE EDE-90

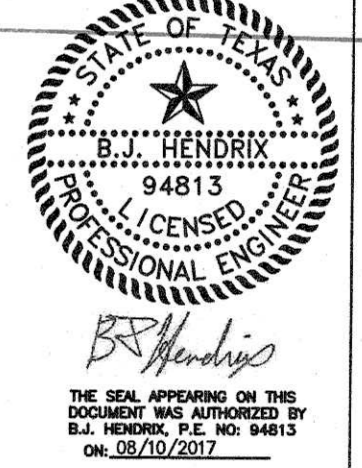


SINGLE 120V FAN CONTROLLED WITH 120V LIGHTS IN DIFFERENT ROOMS ADD 1 RELAY PER ADDITIONAL ROOM AS REQUIRED.

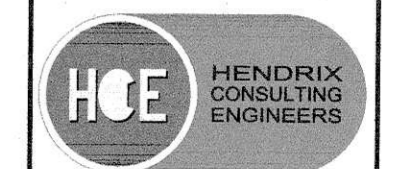


120V FAN CONTROLLED WITH 120V LIGHT ON SEPERATE CIRCUIT. IF FAN AND LIGHT ARE BOTH ON SAME CIRCUIT SIMPLE WIRE IN PARALLEL.

APPROVED
 APPROVED AS NOTED
 DISAPPROVED
 REVISE & RESUBMIT
CITY OF DEER PARK DATE AUG 14 2017



REFERENCE GENERAL NOTES ON SHEETS M1.1, P1.1 AND E1.1 FOR ADDITIONAL INFORMATION



This document, the ideas and designs incorporated herein are and shall remain the property of Hendrix Consulting Engineers. These documents are not to be used or altered, in whole or in part, for other than the original intended use, nor are they to be assigned to any third party without written permission from Hendrix Consulting Engineers. F - 4095
HCE job no.: 17-026

CONCESSION / RESTROOM BUILDING

SOCCER FIELD DEVELOPMENT PHASE I
407 W X ST. CITY OF DEER PARK, TEXAS

PROJECT PHASE
BID - 8/10/2017
REVISIONS
CITY OF DEER PARK
Date Received
AUG 11 2017
ENGINEERING DEPARTMENT

PROJECT NUMBER
16123-00
DATE ISSUED
8/10/2017
SHEET TITLE
DETAILS - ELECTRICAL
SHEET NUMBER

E-1.4

G:\2017\DEER PARK - SOFTBALL RESTROOM\02820281-1.dwg, 8/10/2017 11:39:45 AM, JESUS, Bluebeam PDF-ANSI_D (22.00_x_34.00_inches), 0.125:12

5/20/2017 DEER PARK - SOFTBALL RESTROOM 028128E2.1.dwg, 8/10/2017 11:39:13 AM, JESUS, Bluebeam PDF, ANSI D (22.00 x 34.00 inches), 0.12512

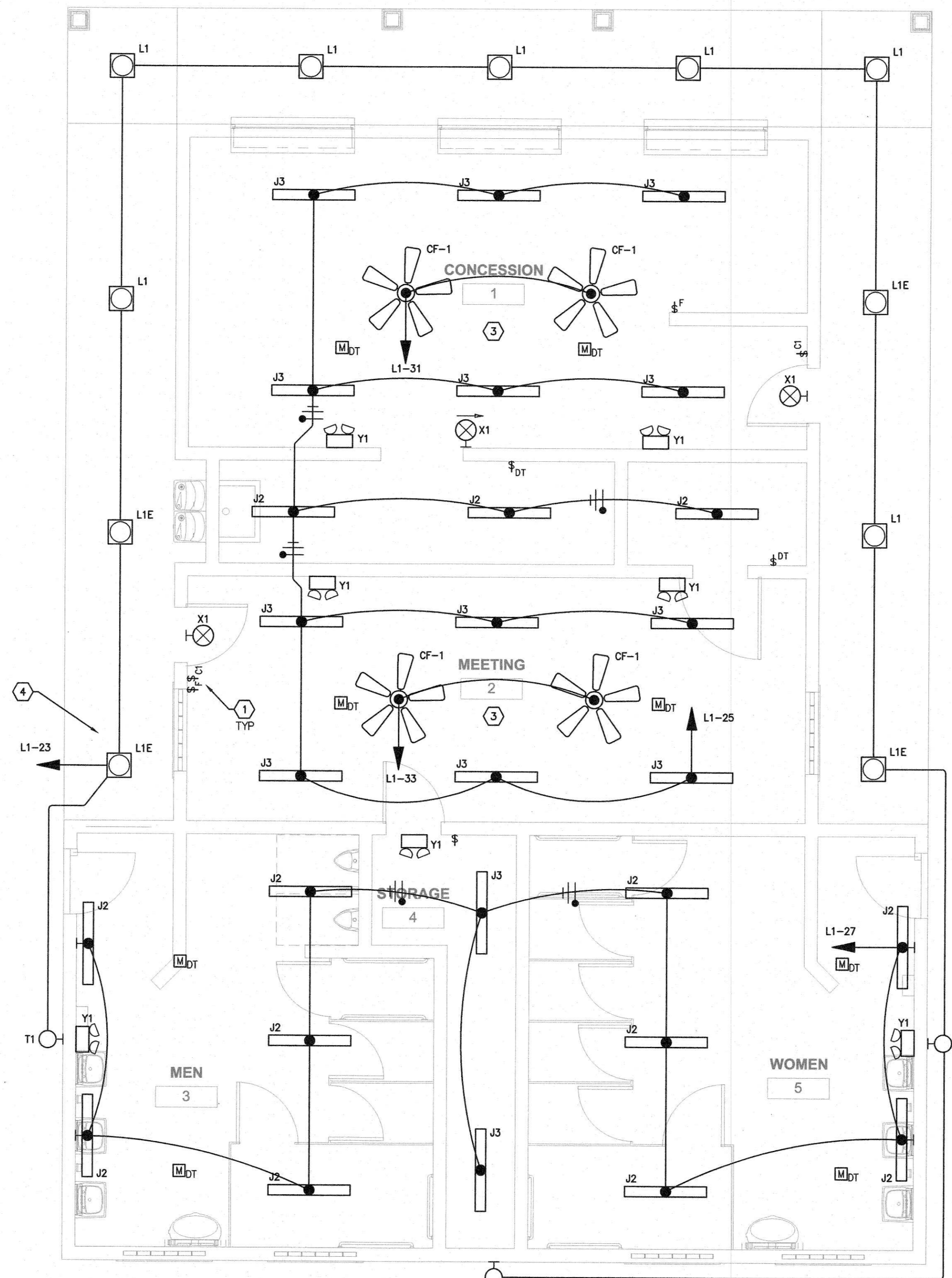
KEYED NOTES

THESE NOTES APPLY TO THIS SHEET ONLY

- ① LOW VOLTAGE LIGHTING CONTROL BUTTON, REFERENCE MISCELLANEOUS EQUIPMENT SCHEDULE AND NLIGHT INTERIOR LIGHTING SCHEDULE.
- 2 FIELD COORDINATE EXACT MOUNTING HEIGHT OF EXTERIOR FIXTURES WITH ARCHITECT AT ROUGH-IN.
- 3 COORDINATE LIGHTS AND FANS TO AVOID STROBING.
- 4 REFERENCE LIGHTING CONTACTOR DETAIL FOR EXTERIOR LIGHTING CONTROL INFORMATION.
- 5 APPROXIMATE LOCATION OF MANUAL LIGHT SWITCH FOR MEZZANINE SERVICE LIGHTS AT TOP OF STAIRS TO MEZZANINE. COORDINATE FINAL LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.

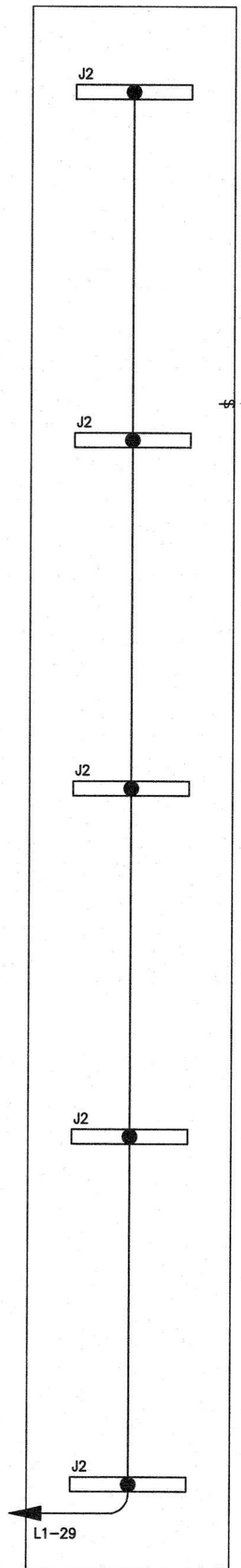


11021 s austin ave, suite 103
georgetown, tx 78626
ryan@modedc.us | www.modedc.us
+ 1 512 733 1150



01 FLOOR PLAN - LIGHTING

SCALE: 1/4" = 1'-0"

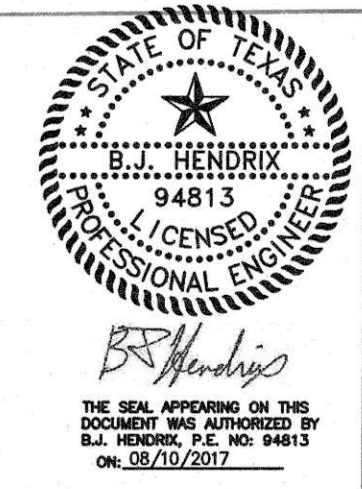


02 MEZZANINE - LIGHTING

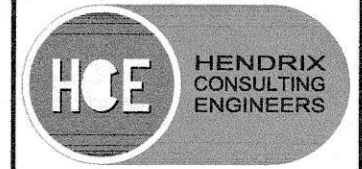
SCALE: 1/4" = 1'-0"

APPROVED
 APPROVED AS NOTED
 DISAPPROVED
 REVISE & RESUBMIT

 CITY OF DEER PARK AUG 14 2017 DATE



REFERENCE GENERAL NOTES ON SHEETS M.1.1, P.1.1 AND E.1.1 FOR ADDITIONAL INFORMATION



This document, the ideas and designs incorporated herein are and shall remain the property of Hendrix Consulting Engineers. These documents are not to be used or altered, in whole or in part, for other than the original intended use, nor are they to be assigned to any third party without written permission from Hendrix Consulting Engineers
F - 4095
HCE job no.: 17-026

CONCESSION / RESTROOM BUILDING

SOCCER FIELD DEVELOPMENT PHASE 1
407 W X ST. CITY OF DEER PARK, TEXAS

PROJECT PHASE
 BID - 8/10/2017
 REVISIONS
 CITY OF DEER PARK
 Date Received
 AUG 11 2017
 ENGINEERING DEPARTMENT

PROJECT NUMBER
 16123-00
 DATE ISSUED
 8/10/2017
 SHEET TITLE
 FLOOR PLAN - LIGHTING
 SHEET NUMBER
 E-2.1

5/20/2017 11:38:35 AM, JESUS, Bluebeam PDF, ANS1_D_ (22100_x_34100_inches), 0.125:12

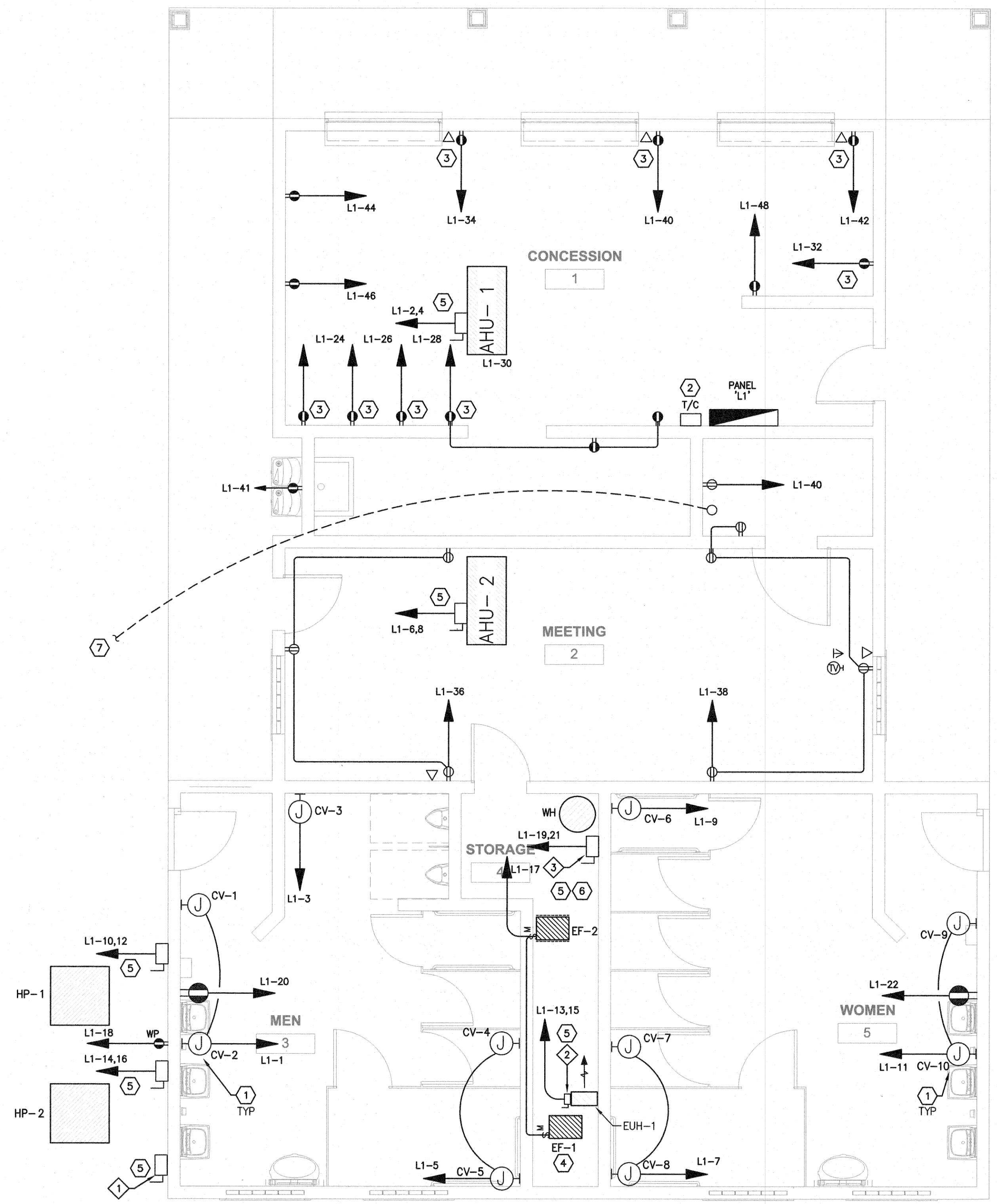
KEYED NOTES

THESE NOTES APPLY TO THIS SHEET ONLY

- ① FIELD COORDINATE PLACEMENT OF J-BOXES AND DISCONNECTING MEANS FOR COVE HEATERS WITH MECHANICAL CONTRACTOR. DISCONNECTING MEANS MAY BE A SNAP SWITCH AT EACH LOCATION AND SHALL BE LOCATED HIGH ON THE WALL AT THE END OF THE COVE HEATER.
- 2 TIME CLOCK PER LIGHTING CONTACTOR DETAIL. PROVIDE WITH NEMA 3R WEATHERPROOF ENCLOSURE.
- 3 COORDINATE FINAL RECEPTACLE LOCATIONS WITH MILLWORK PRIOR TO ROUGH-IN. REVIEW FINAL ARCHITECTURAL INTERIOR ELEVATIONS FOR FINAL LAYOUTS OF EQUIPMENT TO BE POWERED.
- 4 REFERENCE MECHANICAL FAN SCHEDULE FOR CONTROL OF EXHAUST FANS.
- 5 COORDINATE DISCONNECT LOCATION WITH ALL TRADES PRIOR TO ROUGH-IN. REFERENCE DISCONNECT SCHEDULE FOR ADDITIONAL REQUIREMENTS FOR ALL DISCONNECT SWITCHES.
- 6 FIELD COORDINATE PLACEMENT OF DISCONNECTING MEANS FOR WATER HEATERS.
- 7 ONE 2" CONDUIT FOR SITE TECHNOLOGY. COORDINATE CONNECTION POINT WITH OWNER/ SITE CONTRACTOR.
- 8 SPACE FOR ELECTRICAL EQUIPMENT FROM SITE PACKAGE.



1102 | s austin ave, suite 103
georgetown, tx 78626
ryan@modedc.us | www.modedc.us
+ 1 512 733 1150

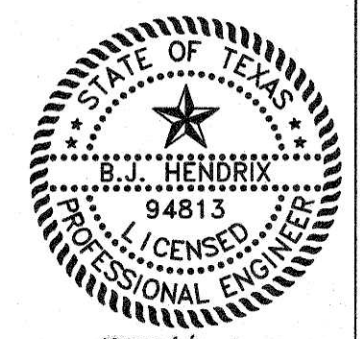


01 FLOOR PLAN - POWER
SCALE: 1/8" = 1'-0"

REFERENCE MECHANICAL FAN SCHEDULE FOR EXHAUST FAN SWITCHING REQUIREMENTS

FOR LOCATIONS WHERE POWER AND DATA ARE SHOWN TOGETHER, DEVICE ROUGH-IN IS TO BE A MAXIMUM OF 6" APART. PROVIDE CADDY BRACKETS AS REQUIRED.

APPROVED
 APPROVED AS NOTED
 DISAPPROVED
 REVISE & RESUBMIT
 AUG 14 2017
 CITY OF DEER PARK DATE



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY B.L. HENDRIX, P.E. NO. 94813 ON 08/10/2017

REFERENCE GENERAL NOTES ON SHEETS M1.1, P1.1 AND E1.1 FOR ADDITIONAL INFORMATION



This document, the ideas and designs incorporated herein are and shall remain the property of Hendrix Consulting Engineers. These documents are not to be used or altered, in whole or in part, for other than the original intended use, nor are they to be assigned to any third party without written permission from Hendrix Consulting Engineers. F - 4095

HCE job no.: 17-026

CONCESSION / RESTROOM BUILDING

SOCCER FIELD DEVELOPMENT PHASE 1
407 W X ST. CITY OF DEER PARK, TEXAS

PROJECT PHASE
BID - 8/10/2017

REVISIONS
CITY OF DEER PARK
Date Received
AUG 11 2017
ENGINEERING DEPARTMENT

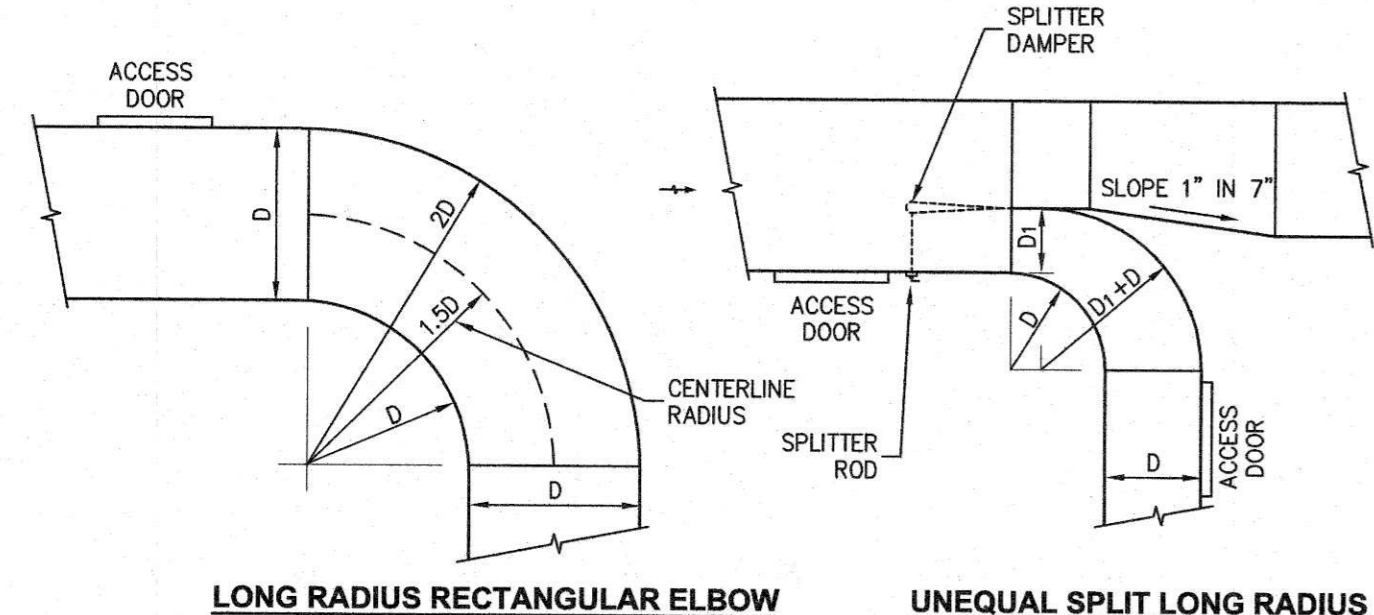
PROJECT NUMBER
16123-00

DATE ISSUED
8/10/2017

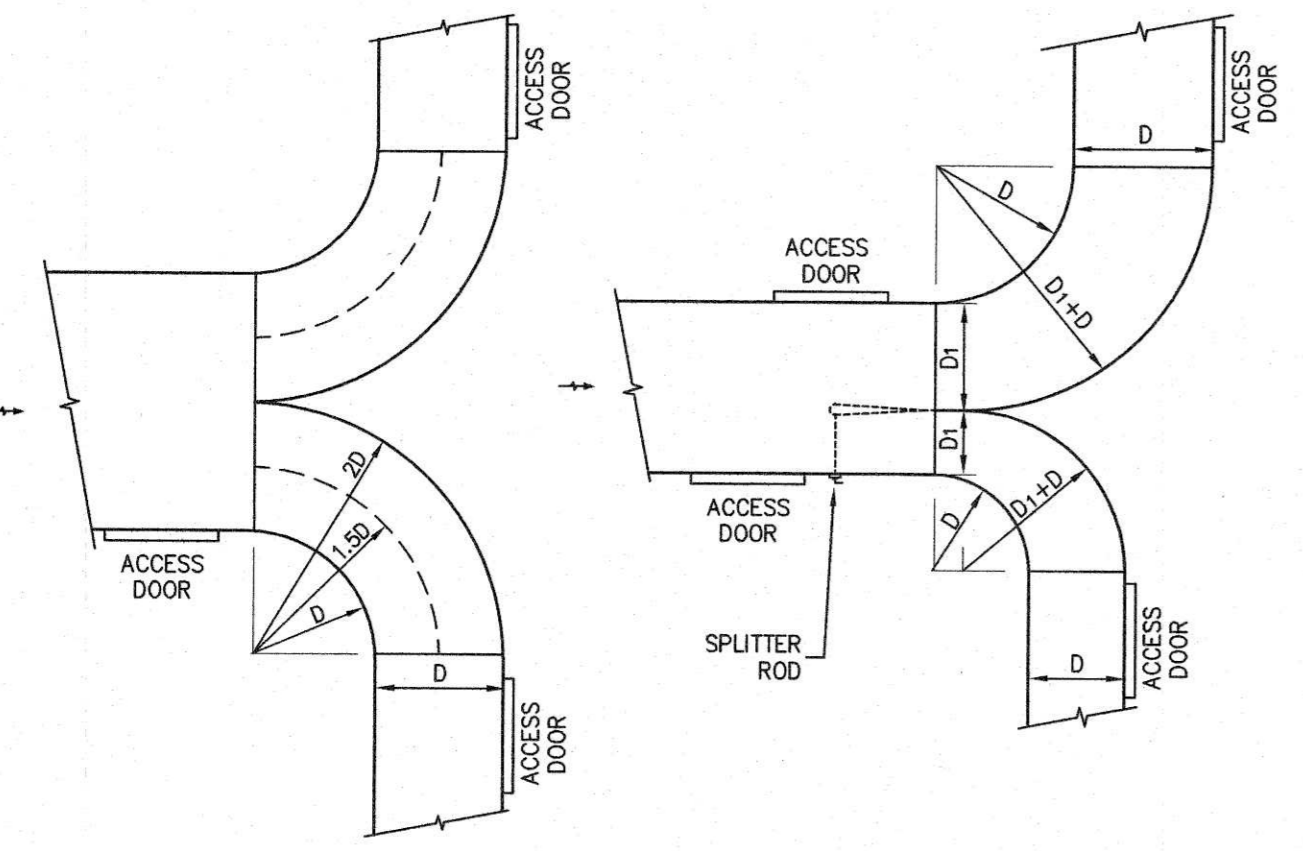
SHEET TITLE
FLOOR PLAN - POWER

SHEET NUMBER

E-3.1

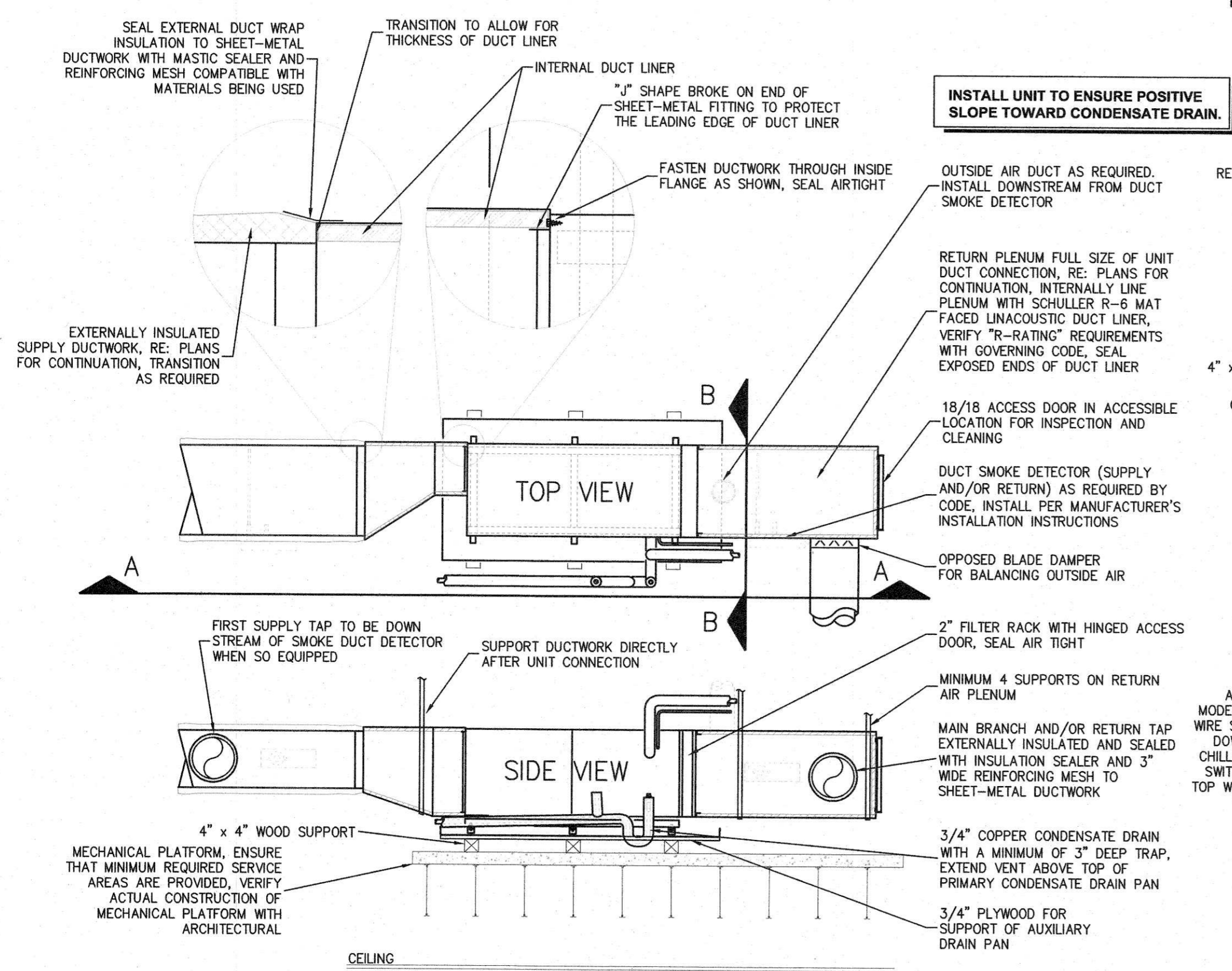


LONG RADIUS RECTANGULAR ELBOW UNEQUAL SPLIT LONG RADIUS



EQUAL SPLIT LONG RADIUS UNEQUAL SPLIT LONG RADIUS

SPLITTER DETAIL
NO SCALE



MECHANICAL PLATFORM AIR HANDLING UNIT DETAIL
NO SCALE

LOUVERS

LOUVER (L):
GREENHECK MODEL ESD-403, 4 INCH DEEP EXTRUDED ALUMINUM CONSTRUCTION. VERIFY FINISH WITH ARCHITECT PRIOR TO ORDERING. COORDINATE FRAME TYPE WITH ARCHITECT AND BUILDING CONSTRUCTION. PROVIDE WITH 1/8" X 1/8" GALVANIZED HARDWARE CLOTH BEE SCREEN.

MARK NO.	SIZE (W x H)
L-1	36 x 20

COVE HEATERS

COVE HEATER (CV):
MARKEL ELECTRIC COVE HEATER CONSTRUCTED OF .962" THICK ALUMINUM. THE HEATER SURFACE SHALL BE CONCAVE IN CONTOUR AND SAW-TOOTH IN PROFILE. THE FINISH SHALL BE OF BAKED WHITE ENAMEL. THE HEATERS SHALL BE AVAILABLE IN RATINGS FROM 450 THROUGH 1250 WATTS, AT 120, 240, 208 AND 277 VOLTS. THE HEATING ELEMENT SHALL BE OF NICHROME WIRE, EMBEDDED IN MAGNESIUM OXIDE POWDER, ENCLOSED AND SEALED IN ALUMINUM METAL TUBING. THE HEATER SHALL BE LISTED BY UNDERWRITERS LABORATORIES, INC. AND THE ELEMENTS SHALL BE SUPPLIED WITH A ONE YEAR LIMITED WARRANTY. PROVIDE WALL MOUNTED LINE VOLTAGE THERMOSTAT.

MARK NO.	MARKEL MODEL NO.	WATTS GRs	VOLTS	LENGTH	WEIGHT	NOT USED
CV-1	CV7512X	750	120/1	72"	13	
CV-2	CV7512X	750	120/1	72"	13	
CV-3	CV7512X	750	120/1	72"	13	
CV-4	CV7512X	750	120/1	72"	13	
CV-5	CV7512X	750	120/1	72"	13	
CV-6	CV7512X	750	120/1	72"	13	
CV-7	CV7512X	750	120/1	72"	13	
CV-8	CV7512X	750	120/1	72"	13	
CV-9	CV7512X	750	120/1	72"	13	
CV-10	CV7512X	750	120/1	72"	13	

ELECTRIC UNIT HEATERS

ELECTRIC UNIT HEATER (EUH):
MANUFACTURED BY MARKEL WITH MOUNTING BRACKETS, DUST SHIELD, POWER DISCONNECT AND BUILT-IN THERMOSTAT. MOUNT NEAR BOTTOM TRUSSES.

MARK NO.	MODEL NO.	KW	VOLT/PH	APPROX. WT.
EUH-1	HF1B5103N	3.3	208/1	35

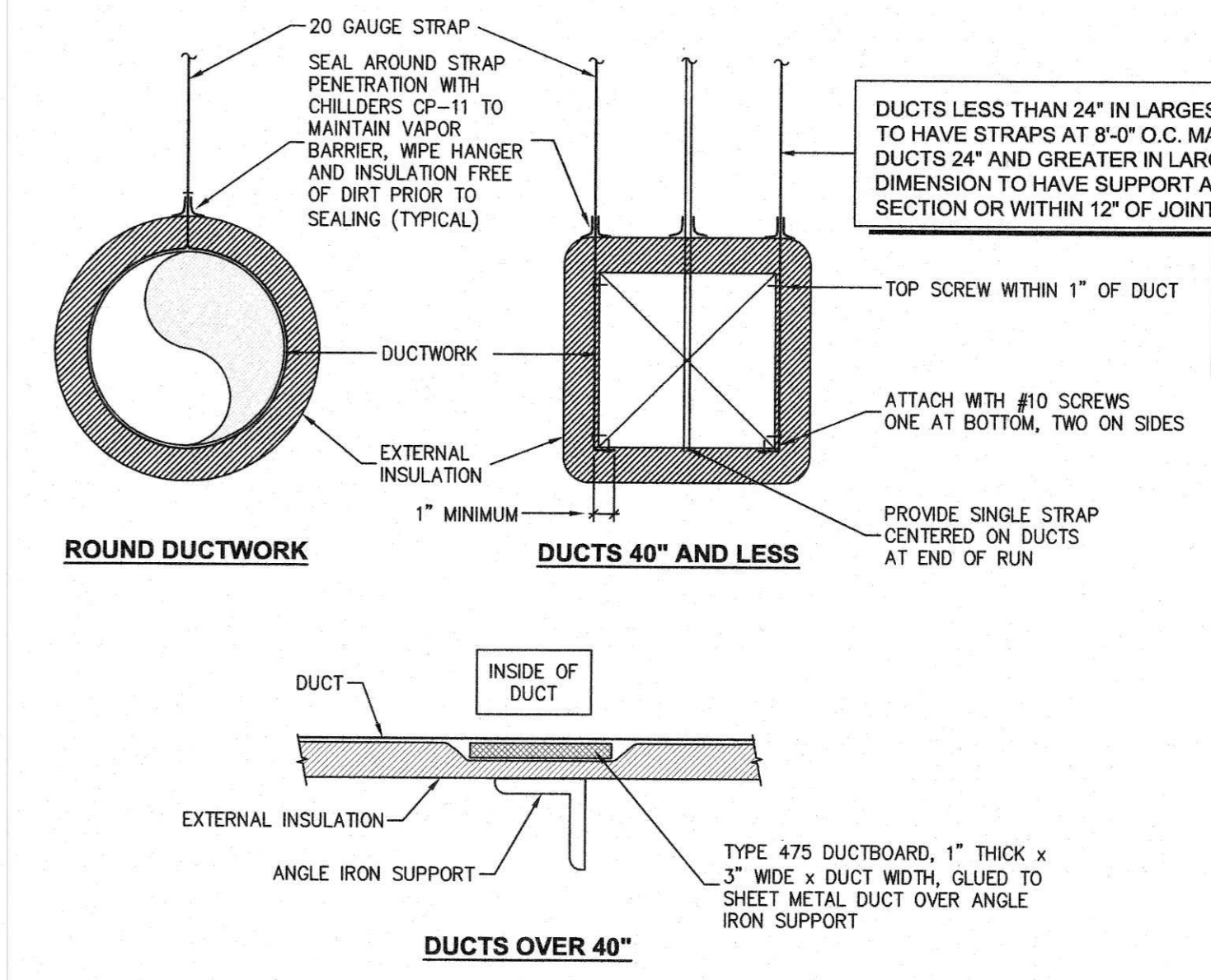
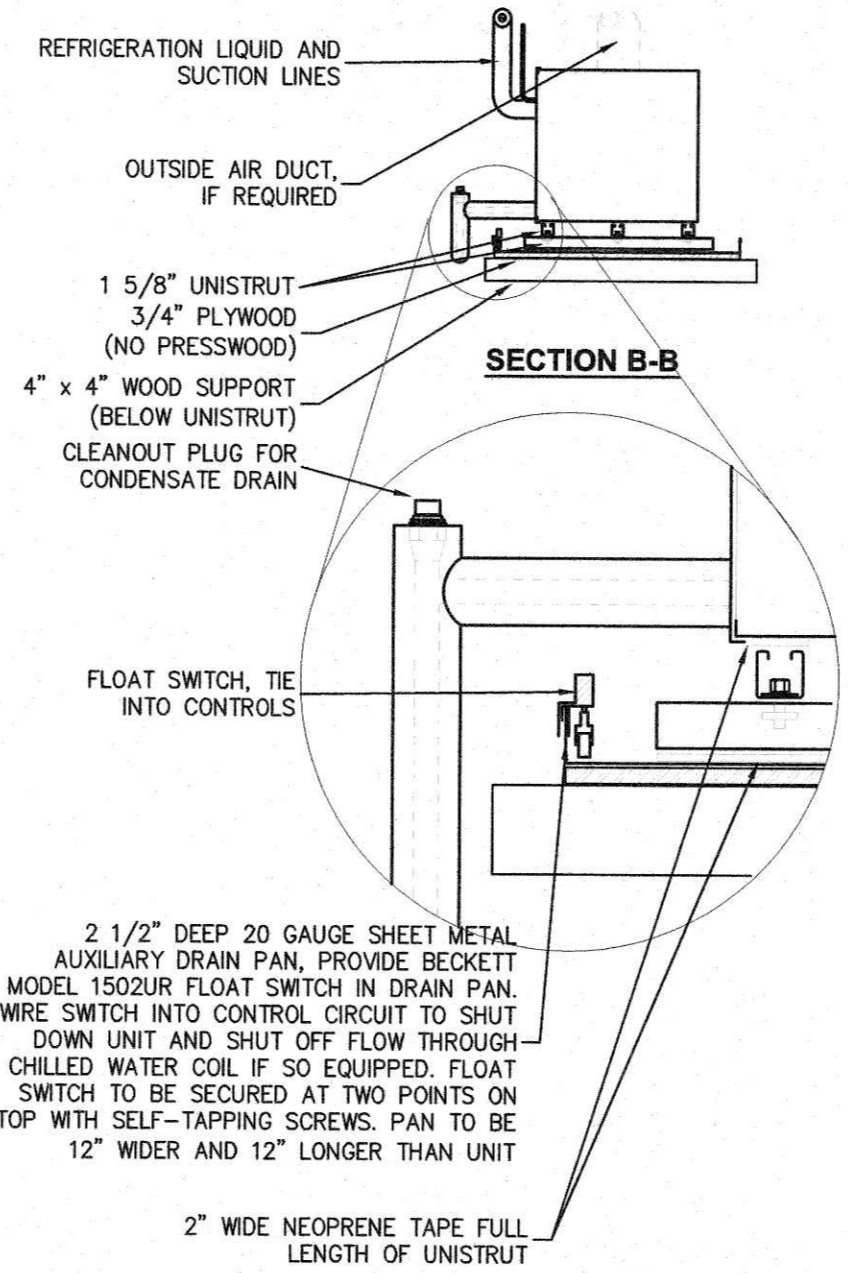
FAN SCHEDULE

EFSC

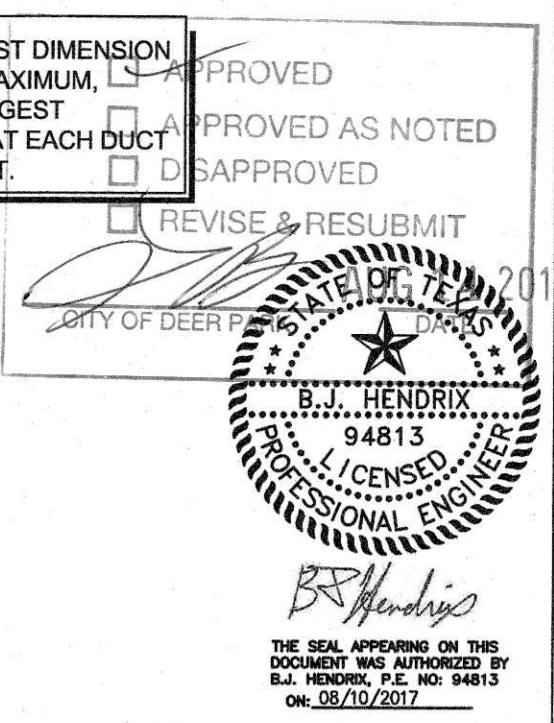
MARK NO.	GREENHECK MODEL NO.	CFM	S.P.	RPM	DRIVE	H.P.	VOLT/PH	WATTS OR AMPS	ACCESSORIES
EF-1	CSP-A1750	900	0.375	913	DIRECT	-	115/1	199	12
EF-2	CSP-A710-VG	450	0.375	976	DIRECT	-	115/1	325	13

- STANDARD NOTES - APPLIES TO ALL FANS**
- BALANCE ALL FANS TO ACTUAL CFM SHOWN ON FLOOR PLANS.
 - BIRD SCREEN.
 - FANS INSTALLED ON METAL STANDING SEAM ROOFS: ROOF CURB IS TO BE FURNISHED, INSTALLED, FLASHED AND COUNTER FLASHED BY ROOFING CONTRACTOR. MECHANICAL CONTRACTOR IS TO COORDINATE SIZE AND LOCATION. CURB IS TO EXTEND A MINIMUM OF 12" ABOVE FINISHED ROOF ON SHORT SIDE.
 - FANS INSTALLED ON BUILT-UP ROOF: ROOF CURB IS TO BE FLASHED AND COUNTER FLASHED BY ROOFING CONTRACTOR. MECHANICAL CONTRACTOR IS TO FURNISH AND INSTALL ROOF CURB AND COORDINATE LOCATION. CURB IS TO EXTEND A MINIMUM OF 12" ABOVE FINISHED ROOF ON SHORT SIDE.
 - FACTORY DISCONNECT.
 - PROVIDE EACH ROOF MOUNTED FAN WITH OPPOSED BLADE DAMPER WITH HEAVY DUTY MOTORIZED ACTUATOR (MATCH FAN VOLTAGE) UNLESS SPECIFICALLY NOTED OTHERWISE. ELECTRICAL CONTRACTOR TO TIE DAMPER ACTUATOR IN TO FAN POWER.
 - UNIT WEIGHT LESS THAN 100 LBS. UNLESS NOTED OTHERWISE.
 - COORDINATE ALL FINAL FAN LOCATIONS AND FRAMING WITH STRUCTURAL.
 - ALL ALTERNATE MANUFACTURER'S FANS MUST OPERATE WITH CFM, RPM AND HP RANGE AS FANS LISTED ABOVE TO ALLOW FLEXIBILITY. FANS MAY NOT BE DOWN SIZED.
 - FAN SPEED CONTROL (MOUNTED UNDER DOME ON ROOF FANS OR NEXT TO CABINET FANS FOR ALL DIRECT DRIVE FANS). DUCT DROPS ARE TO BE FULL SIZE OF DAMPER OR SIZED AT .08" SP WHICHEVER IS GREATER OR AS SPECIFICALLY NOTED.
 - POWDER COATED METAL IS NOT ALLOWED TO BE USED IN LIEU OF GALVANIZED UNLESS SPECIFICALLY SCHEDULED.
 - EXHAUST FANS / OUTLETS TO BE LOCATED A MINIMUM OF 10' AWAY FROM OUTSIDE AIR INTAKES OR AS REQUIRED BY LOCAL CODES.
 - PROVIDE WITH MOTORIZED BACK DRAFT DAMPER.

- ACCESSORIES AND NOTES**
- UPLAST GREASE FAN ACCESSORIES: FAN TO BE UL AND cUL LISTED FOR GREASE REMOVAL, HEAT BAFFLE, BIRD GUARD, HINGE KIT, DRAIN CONNECTION, GREASE TRAP AND VENTED CURB EXTENSION (MUST MEET THE NFPA 96 REQUIREMENT FOR A 40' DISCHARGE HEIGHT), PROVIDE WITH SEPARATE CURB FROM ANY SUPPLY FAN.
 - KITCHEN SUPPLY FAN ARRANGEMENT "DB" ACCESSORIES: EXHAUST FAN AND SUPPLY FAN TO BE MOUNTED ON SEPARATE CURBS AND PROVIDE MOPPED IN EQUIPMENT SUPPORT RAIL WITH GALVANIZED UNISTRUT SUPPORT FOR WEATHER HOOD, MOTORIZED INTAKE DAMPER, SPACER SECTION (TO MAINTAIN 10 FEET SEPARATION FROM EXHAUST FAN), FILTER SECTION THAT ACCOMMODATES 2" FILTERS, WEATHER HOOD, SUPPLY FAN INTERLOCKED TO RUN WITH KITCHEN EXHAUST FAN. KITCHEN EXHAUST FAN IS TO RUN AND SUPPLY FAN IS TO GO OFF IN THE EVENT THAT A FIRE IS DETECTED. FURNISH WITH REMOTE OR FAN CASING MOUNT PREWIRED KITCHEN FAN CONTROL CENTER WITH STARTERS, DISCONNECTS, CONTROL TRANSFORMERS, AND SINGLE POINT ELECTRICAL CONNECTION. ELECTRICAL CONTRACTOR TO MAKE ALL CONTROL AND LINE VOLTAGE TERMINATIONS AND FEED THROUGH CONNECTIONS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. 120 VOLT CONTROL VOLTAGE FOR HOOD FAN PACKAGE IS TO BE OBTAINED FROM HOOD LIGHTING CIRCUIT.
 - DIRECT FIRED GAS HEAT.
 - ELECTRIC HEAT.
 - PERFORATED BAFFLE INSTALLED AT INLET.
 - GRAVITY BACK DRAFT DAMPER.
 - RADIATION DAMPER (CEILING MOUNTED FANS).
 - COMBINATION NEOPRENE / SPRING VIBRATION ISOLATION.
 - INLET GUARD.
 - BELT GUARD.
 - MAGNETIC MOTOR STARTER.
 - SWITCHED WITH LIGHTS BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE ALL RELAYS AND APPURTENANCES.
 - SWITCHED BY SPRING WOUND TIMER (1 HR MAX) PROVIDED BY ELECTRICAL CONTRACTOR. LOCATE NEXT TO ROOM LIGHT SWITCH UNLESS OTHERWISE NOTED.
 - SWITCHED BY WALL SWITCH WITH PILOT LIGHT BY ELECTRICAL CONTRACTOR. LOCATE NEXT TO ROOM LIGHT SWITCH UNLESS OTHERWISE NOTED.
 - SWITCHED BY HOOD MOUNTED SWITCH WITH PILOT LIGHT BY ELECTRICAL CONTRACTOR.
 - SWITCHED BY THERMOSTAT. THERMOSTAT PROVIDED BY MECHANICAL CONTRACTOR. INSTALLED BY ELECTRICAL CONTRACTOR.
 - CONTROLLED BY ENERGY MANAGEMENT SYSTEM.
 - 120V/1PH MOTORIZED DAMPER FOR INLINE FAN TIED IN TO FAN POWER.
 - EXPLOSION PROOF FAN. WIRE TO RUN CONTINUOUSLY.
 - PERFORATED BAFFLE INSTALLED AT INLET.
 - INTERLOCKED WITH DISHWASHER.
 - DRYER BOOSTER FAN. PROVIDE ALL CONTROLS AND INTERLOCKING WIRING REQUIRED FOR A COMPLETE OPERABLE SYSTEM.
 - SIDEWALL PROPELLER FAN PROVIDE WITH HOUSING, MOTORIZED BACKDRAFT DAMPER, INTEGRAL DISCONNECT, MOTOR SIDE GUARD AND TRANSITIONS AS REQUIRED TO CONNECT TO WALL LOUVER.



DUCT DETAILS
NO SCALE



REFERENCE GENERAL NOTES ON SHEETS M-1.1, P-1.1 AND E-1.1 FOR ADDITIONAL INFORMATION



This document, the ideas and designs incorporated herein are and shall remain the property of Hendrix Consulting Engineers. These documents are not to be used or altered, in whole or in part, for other than the original intended use, nor are they to be assigned to any third party without written permission from Hendrix Consulting Engineers. F-4095
HCE job no.: 17-026

CONCESSION / RESTROOM BUILDING

SOCCER FIELD DEVELOPMENT PHASE 1
407 W.V. ST. CITY OF DEER PARK, TEXAS

PROJECT PHASE
BID - 8/10/2017

REVISIONS
CITY OF DEER PARK
Date Received
AUG 11 2017

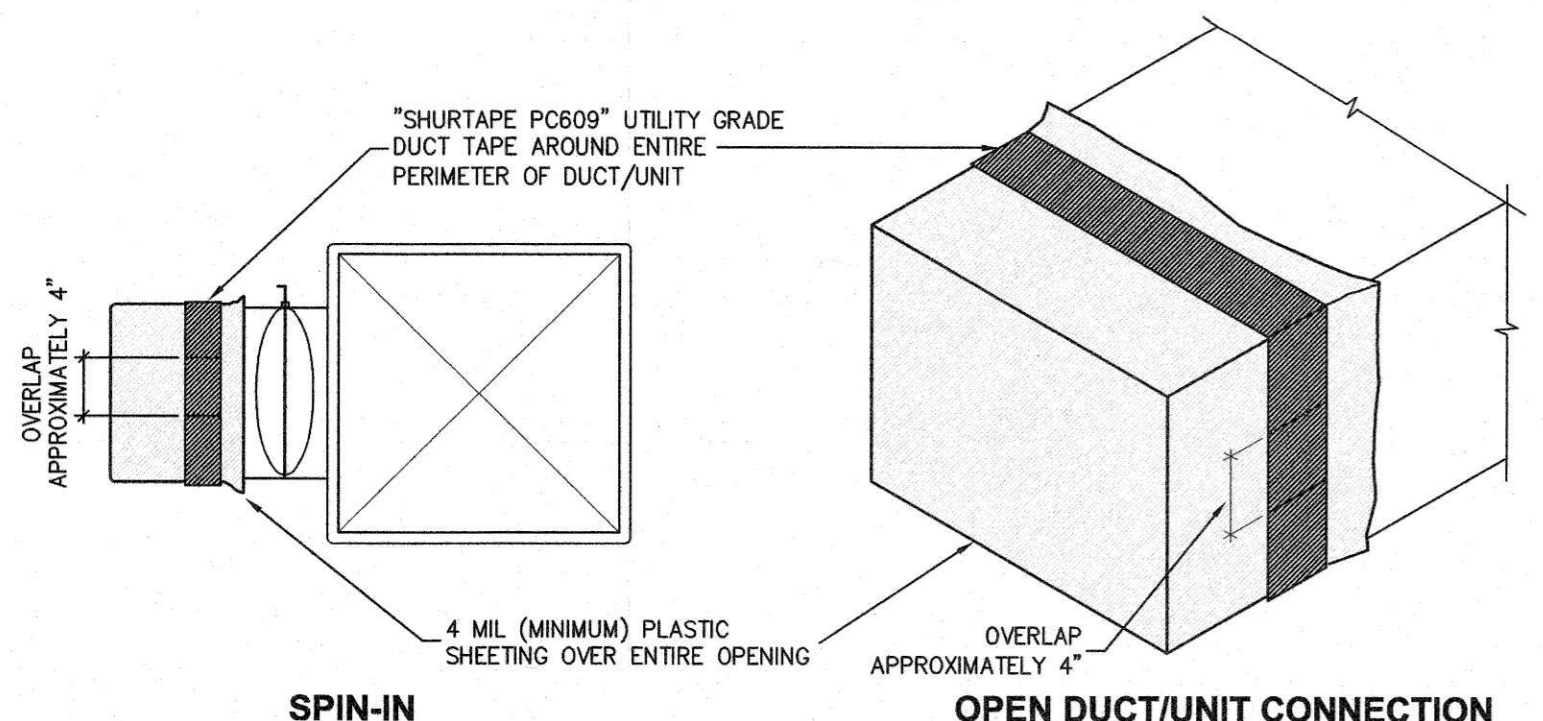
ENGINEERING DEPARTMENT

PROJECT NUMBER
16123-00
DATE ISSUED
8/10/2017
SHEET TITLE

SCHEDULES -
MECHANICAL

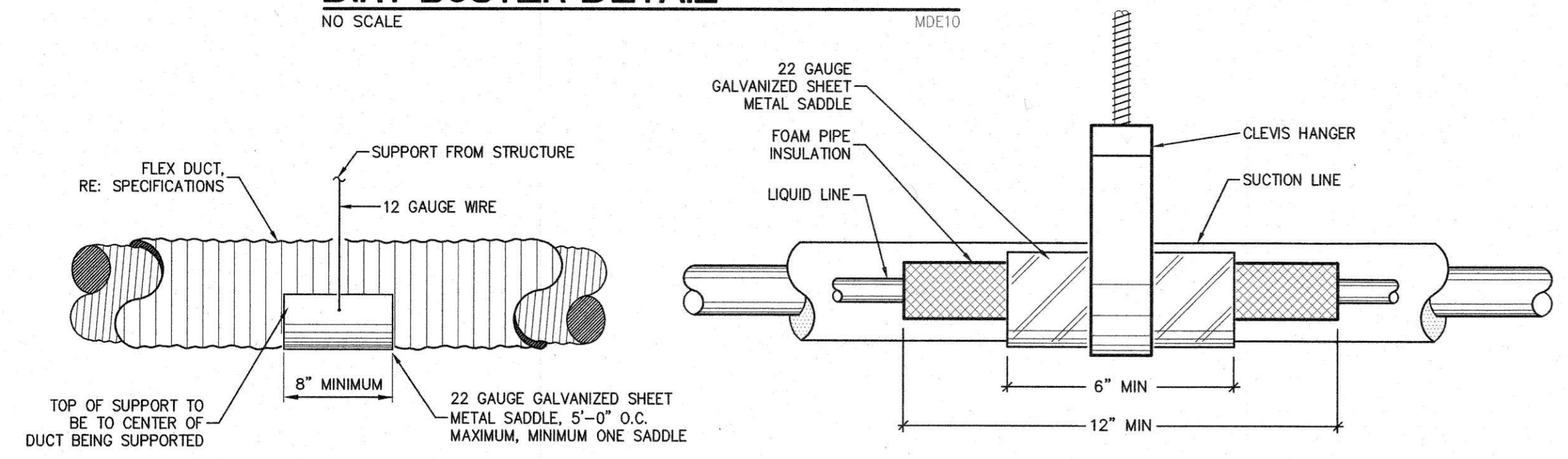
SHEET NUMBER

M-1.2



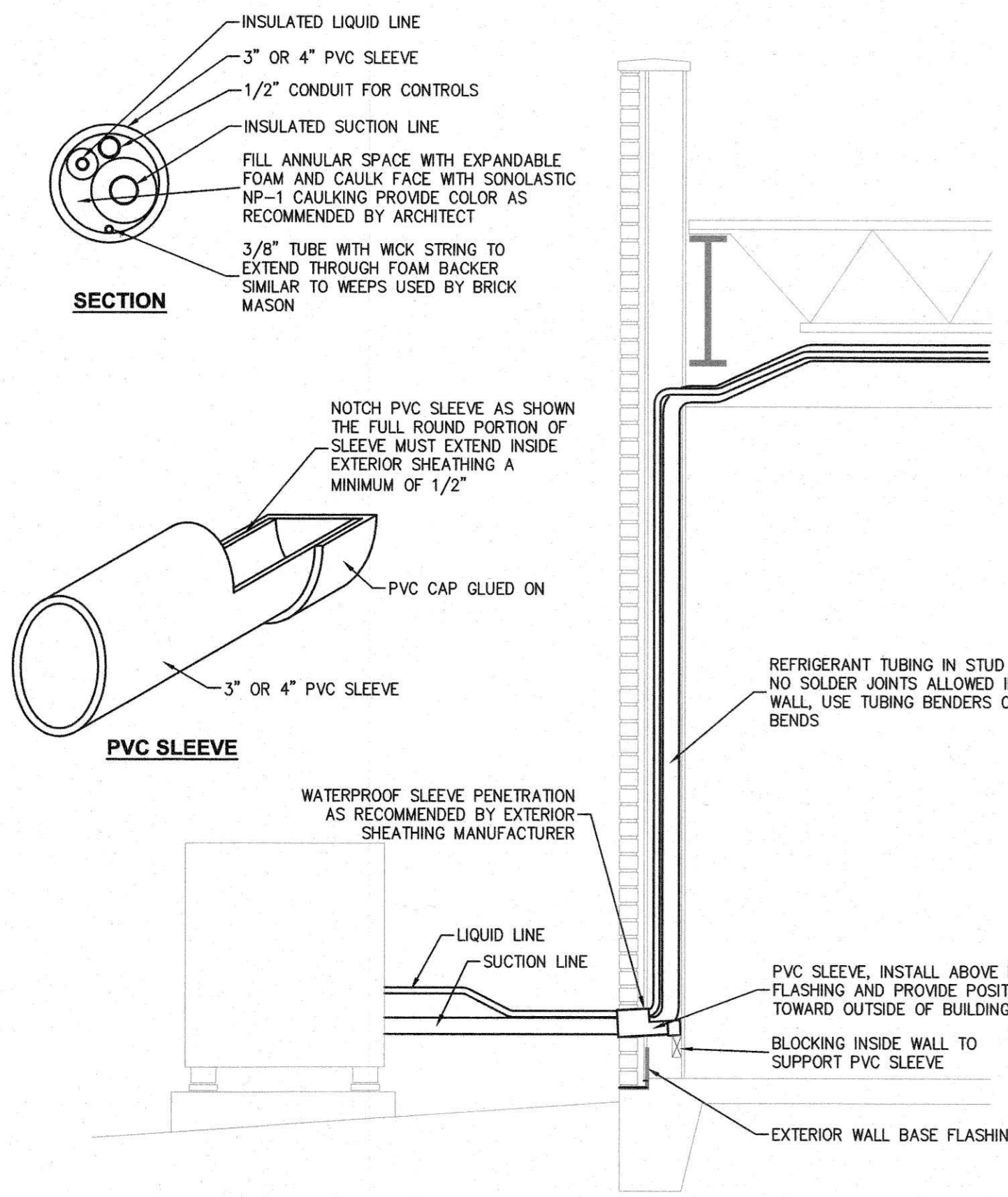
- SPIN-IN**
- CAP OPEN ENDS OF ALL DUCTS (INCLUDING SPIN-INS) AND EQUIPMENT WITH PLASTIC TO PREVENT CONSTRUCTION DEBRIS AND DUST FROM ENTERING OPENINGS DURING CONSTRUCTION.
 - COVER ALL OPEN ENDS OF DUCTWORK WHILE SITTING ON GROUND (NOT INSTALLED). ALL PREFABRICATED DUCTWORK IN SHOP SHALL COME WITH ENDS PREWRAPPED WHEN DELIVERED TO THE SITE.
 - CONTRACTOR SHALL CLEAN ALL DUCTWORK THAT IS NOT PROTECTED PROPERLY DURING CONSTRUCTION.

DIRT BUSTER DETAIL



FLEX. DUCT SUPPORT DETAIL

REFRIGERANT PIPING SUPPORT DETAIL



REFRIGERANT PIPING WALL PENETRATION DETAIL

SPLIT SYSTEM MASTER SCHEDULE

DEER PARK - SOCCER & SOFTBALL

208/1
17026

UNIT TYPE BREAKDOWN

C = COOLING WITH ELECTRIC HEAT	2CM = TWO STAGE COOLING WITH MULTI-SPEED AHU AND ELECTRIC HEAT
H = HEAT PUMP WITH ELECTRIC EMERGENCY HEAT	2C = TWO STAGE COOLING WITH VARIABLE SPEED AHU AND ELECTRIC HEAT
GH = COOLING WITH HORIZONTAL SINGLE STAGE GAS HEAT	2HM = TWO STAGE HEAT PUMP WITH MULTI-SPEED AHU AND ELECTRIC EMERGENCY HEAT
GV = COOLING WITH VERTICAL SINGLE STAGE GAS HEAT	2H = TWO STAGE HEAT PUMP WITH VARIABLE SPEED AHU AND ELECTRIC EMERGENCY HEAT
2CM = TWO STAGE COOLING WITH MULTI-SPEED AHU AND ELECTRIC HEAT	2GH = TWO STAGE COOLING WITH HORIZONTAL SINGLE STAGE GAS HEAT
2C = TWO STAGE COOLING WITH VARIABLE SPEED AHU AND ELECTRIC HEAT	2GV = TWO STAGE COOLING WITH VERTICAL SINGLE STAGE GAS HEAT

- STANDARD NOTES:**
- SOME UNITS SHOWN ON THE MASTER SCHEDULE(S) MAY NOT BE USED ON THIS JOB.
 - ALL EFFICIENCIES LISTED ARE AT ARI CONDITIONS (80/67/55).
 - ALL CAPACITIES LISTED ARE TO BE SELECTED AT (80/67/105) AT LISTED AIR FLOW.
 - VERIFY AVAILABLE VOLTAGE, PHASE AND CIRCUIT FUSE SIZE(S) WITH ELECTRICAL PLANS AND ELECTRICAL CONTRACTOR PRIOR TO RELEASING EQUIPMENT ORDER. MECHANICAL CONTRACTOR IS TO FILL IN THE "MECH/ELECT COORDINATION SHEET" FOUND IN THE SPECIFICATIONS AND FURNISH ONE COPY TO THE ELECTRICAL CONTRACTOR AND ALSO ATTACH THIS INFORMATION TO THE EQUIPMENT SUBMITTAL PRIOR TO SUBMITTING TO ENGINEER.
 - WHEN NEUTRAL OUTSIDE AIR IS SCHEDULED, IT WILL BE PROVIDED FROM A DEDICATED OUTSIDE AIR UNIT TO THE RETURN AIR PLENUM OF THE UNIT OR DIRECTLY TO THE SPACE.
 - WHEN RAW OUTSIDE AIR IS SCHEDULED, PROVIDE AN INSULATED FILTER BOX WITH HINGED ACCESS DOOR. ROUTE OUTSIDE AIR DUCT FROM ROOF CAP OR EXTERIOR WALL LOUVER TO RETURN AIR PLENUM. PROVIDE A MANUAL BALANCING DAMPER AND A MOTORIZED DAMPER IN OUTSIDE AIR DUCT. THE FILTER BOX AND DAMPERS MUST BE EASILY ACCESSIBLE FROM THE AIR HANDLER SERVICE AREA. FILTER SIZE TO BE 12X12X2 IN DUCTS WITH UP TO 200 CFM AND 16X20X2 IN DUCTS WITH 200 TO 800 CFM.
 - AIR PURIFICATION:** PROVIDE GLOBAL PLASMA SOLUTIONS, BI-POLAR ION GENERATOR MODEL NUMBER - GPS-FC-3-BAS FOR ALL UNITS LISTED IN SCHEDULE BELOW. INSTALL PER MANUFACTURERS INSTALLATION INSTRUCTIONS. POWER SUPPLY IS 24 VAC AT 12VA COORDINATE ELECTRICAL REQUIREMENTS WITH UNIT MANUFACTURER PRIOR TO INSTALLING. PROVIDE LARGER UNIT TRANSFORMER IF REQUIRED. CONTACT HTS FOR PRICING. 512-745-0555 OR derrick.vanwest@hts.com

SEE SPECIFICATIONS FOR ALL STANDARD ACCESSORIES, FEATURES AND CONTROLS REQUIRED.

- ACCESSORIES AND NOTES: (ONLY ACCESSORIES NOTED IN THE SCHEDULE BELOW ARE TO BE PROVIDED)**
- DUCT SMOKE DETECTOR IN SUPPLY AND / OR RETURN AIR DUCT AS REQUIRED BY AUTHORITY HAVING JURISDICTION, PROVIDED AND WIRED BY FIRE ALARM CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. FIRE ALARM CONTRACTOR SHALL PROVIDE A SHUT DOWN RELAY AND MAKE CONNECTIONS FROM DETECTOR TO RELAY. CONTROLS CONTRACTOR SHALL PROVIDE WIRE AND CONNECTIONS FROM CONTROL RELAY TO AIR HANDLING UNIT. IF A FIRE ALARM SYSTEM IS NOT PROVIDED, THE MECHANICAL CONTRACTOR IS TO PROVIDE AND INSTALL DUCT DETECTOR, SHUT DOWN RELAY, REMOTE TEST SWITCH AND AUDIBLE/VISUAL INDICATOR.
 - PROVIDE HIGH EFFICIENCY / CAPACITY (MERV 8) 5" THICK PLEATED FILTER AND CASING EQUAL TO LENNOX BMAC.
 - PROVIDE CONDENSATE PUMP.
 - PROVIDE CO2 SENSOR MOUNTED 18" FROM UNIT THERMOSTAT SENSOR TO MONITOR SPACE CONDITIONS. OUTSIDE AIR DAMPER IS TO CLOSE WHEN UNIT IS OFF AND OPEN TO MAXIMUM O/A POSITION (100% OF RAW O/A CFM SCHEDULED) ANY TIME SPACE IS OCCUPIED AND CO2 LEVEL IS ABOVE 800 PPM.
 - PROVIDE LOW AMBIENT CONTROL DOWN TO 0 DEGREES BY A VARIABLE SPEED CONDENSER FAN OPERATION (PROVIDE BALL BEARING CONDENSER MOTOR)
 - PROVIDE UNIT WITH THERMOSTAT HAVING TWO REMOTE SENSORS EACH HAVING 50% AUTHORITY EACH.

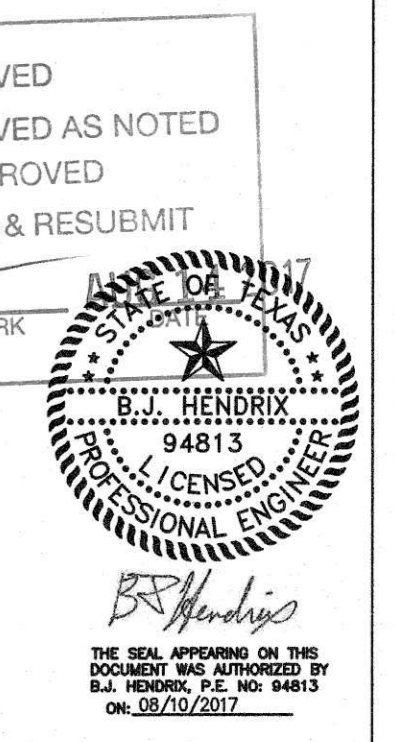
2 STAGE HEAT PUMP SPLIT SYSTEM WITH VARIABLE SPEED BLOWER

INDOOR / OUTDOOR		2H2	2H3	2H4	2H5
CFM		750	1150	1550	1800
MINIMUM NET SENSIBLE MBH		17485	30415	37895	45510
MINIMUM NET TOTAL MBH		23800	38500	49080	61500
SEER		15.7	16	16	15.5
SEER		12.2	12.5	12.5	12.5
INDOOR UNIT VOLTAGE / PHASE		208/1	208/1	208/1	208/1
HEAT KW AT RATED VOLTAGE		6	9.4	11.3	15.0
OUTDOOR UNIT VOLTAGE / PHASE		208/1	208/1	208/1	208/1
INDOOR UNIT	(AHU)	CBX40LHV-024	CBX40LHV-036	CBX40LHV-048	CBX40LHV-060
ELECTRIC HEATER		ECB40-8CB P	ECB40-12.5CB P	ECB40-19CB P	ECB40-26CB P
OUTDOOR UNIT	(HP)	XP16-024-230	XP16-036-230	XP16-048-230	XP16-060-230
INDOOR UNIT	(AHU)	0	0	0	0
ELECTRIC HEATER		0	0	0	0
OUTDOOR UNIT	(HP)	0	0	0	0
INDOOR UNIT	(AHU)	0	0	0	0
ELECTRIC HEATER		0	0	0	0
OUTDOOR UNIT	(HP)	0	0	0	0
INDOOR UNIT WEIGHT		165	172	216	216
OUTDOOR UNIT WEIGHT		222	273	294	353

2 STAGE HEAT PUMP SPLIT SYSTEM WITH MULTISPEED BLOWER

UNIT MARK	UNIT TYPE	O/A CFM		ACCESSORIES AND NOTES	UNIT MARK	UNIT TYPE	O/A CFM		ACCESSORIES AND NOTES
		RAW	NEUTRAL				RAW	NEUTRAL	
AHJHP-1	2H4	300		4					
AHJHP-2	2H3	120		4					

PER THE LATEST VERSION OF ASHRAE, ANY MECHANICAL COOLING UNIT WITH AN EFFICIENCY EXCEEDING THE STANDARD MINIMUM REQUIREMENT BY 17% OR MORE IS EXEMPT FROM THE ECONOMIZER REQUIREMENT.



REFERENCE GENERAL NOTES ON SHEETS M1.1, P1.1 AND E1.1 FOR ADDITIONAL INFORMATION

HCE HENDRIX CONSULTING ENGINEERS
This document, the ideas and designs incorporated herein are and shall remain the property of Hendrix Consulting Engineers. These documents are not to be used or altered, in whole or in part, for other than the original intended use, nor are they to be assigned to any third party without written permission from Hendrix Consulting Engineers, F-4095
HCE job no.: 17-026



CONCESSION / RESTROOM BUILDING
SOCCER FIELD DEVELOPMENT PHASE 1
407 W X ST. CITY OF DEER PARK, TEXAS

PROJECT PHASE
BID - 8/10/2017
REVISIONS
CITY OF DEER PARK
Date Received
AUG 11 2017
ENGINEERING DEPARTMENT

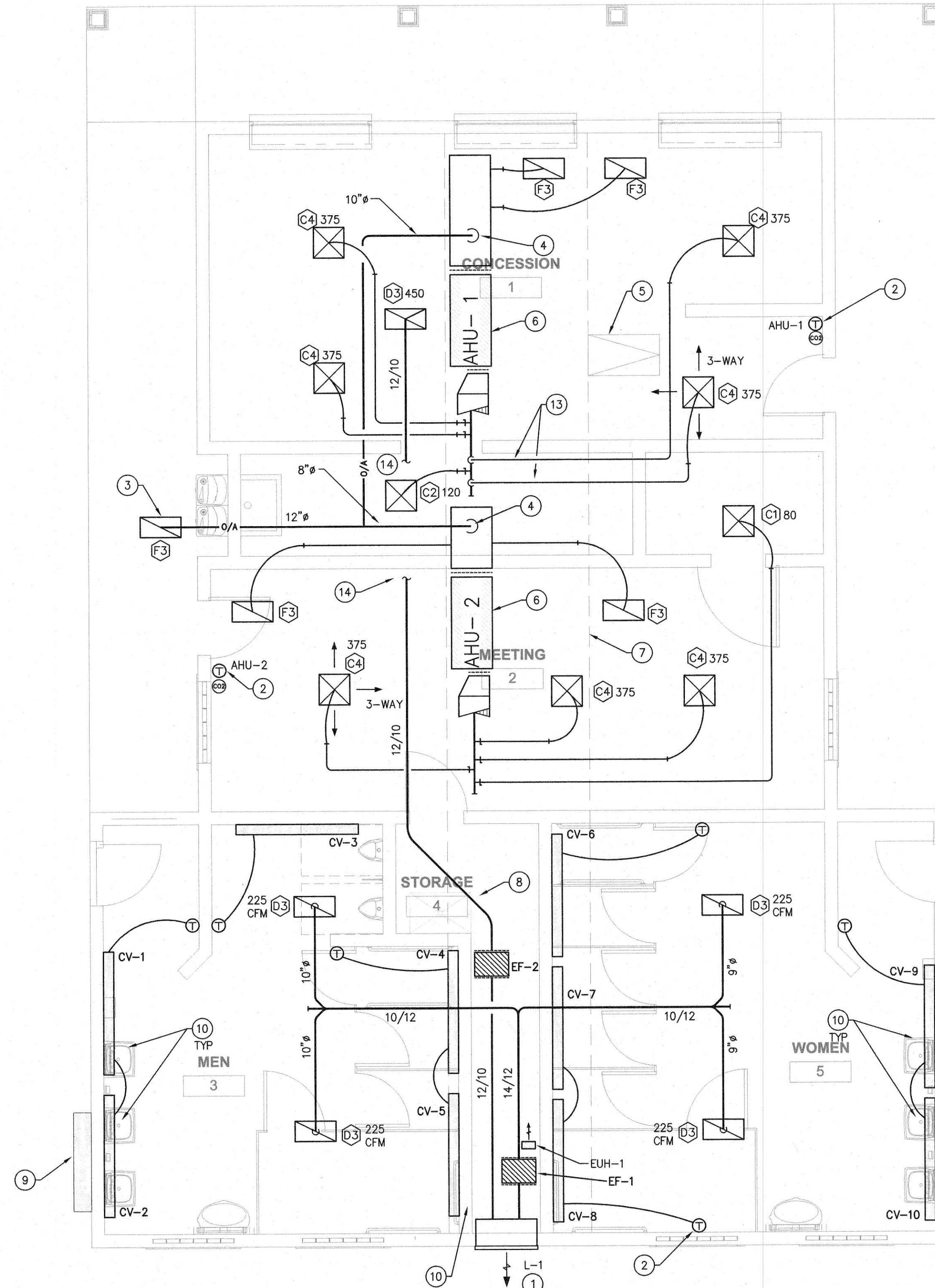
PROJECT NUMBER
16123-00
DATE ISSUED
8/10/2017
SHEET TITLE
DETAILS - MECHANICAL
SHEET NUMBER
M-1.3

G:\2017\DEER PARK - SOCCER FIELD RESTROOM.DWG, 8/10/2017 11:36:41 AM, JESUS.DUBOIS.DWG, ANSYS_ID_2200_x_34_00 Inches, 0.125x12

KEYED NOTES

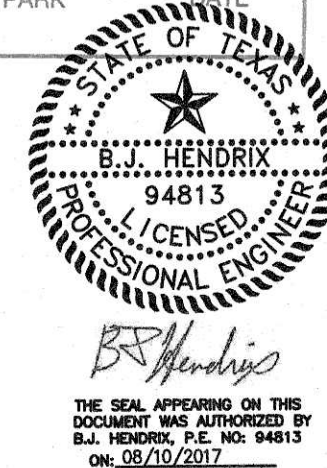
THESE NOTES APPLY TO THIS SHEET ONLY

- 1 EXHAUST AIR LOUVER. REFERENCE ARCHITECTURAL FOR EXACT LOCATION. PROVIDE 24" DEEP EXTERNALLY WRAPPED SHEET METAL PLENUM FULL SIZE OF LOUVER ON BACK OF LOUVER. BOTTOM OF PLENUM TO BE WELDED WATERTIGHT AND SLOPED TO DRAIN TOWARDS EXTERIOR.
- 2 PROVIDE THERMOSTAT WITH INSULATED BACKING.
- 3 OUTSIDE SIDE AIR INTAKE FILTER GRILLE IN SOFFIT.
- 4 OUTSIDE AIR TO CONNECT TO RETURN AIR PLENUM. PROVIDE MOTORIZED DAMPER TO OPEN ONLY WHEN ASSOCIATED COMPRESSOR IS OPERATING AND CO2 LEVEL IS ABOVE 1100 PPM. PROVIDE MANUAL DAMPER FOR BALANCING. DAMPERS TO BE IN ACCESSIBLE LOCATION.
- 5 MECHANICAL PLATFORM ACCESS LADDER. COORDINATE WITH ARCHITECT.
- 6 AIR HANDLING UNIT ON MECHANICAL PLATFORM. ROUTE CONDENSATE TO SERVICE SINK IN PLUMBING CHASE.
- 7 LINE OF MECHANICAL PLATFORM ABOVE CEILING. COORDINATE WITH ARCHITECT AND STRUCTURAL ENGINEER.
- 8 SERVICE SINK LOCATION FOR CONDENSATE DISPOSAL. COORDINATE WITH PLUMBING CONTRACTOR.
- 9 LOCATION FOR ELECTRICAL SERVICE DISCONNECT.
- 10 EF-1 AND LOUVER ABOVE PLATFORM.
- 11 COVE HEATERS TO BE INSTALLED JUST BELOW CEILING PER MANUFACTURER'S INSTRUCTIONS. SET AT 40 DEGREES FAHRENHEIT FOR FREEZE PROTECTION. LIGHTS TO BE MOUNTED BELOW.
- 12 EUH-1 IN CHASE FOR FREEZE PROTECTION. SET AT 40 DEGREES FAHRENHEIT.
- 13 RUN DUCT HIGH OVER MEZZANINE FOR MAINTENANCE ACCESS.
- 14 CONTINUATION OF NEW KITCHEN EXHAUST DUCT.



01 FLOOR PLAN - MECHANICAL
SCALE: 1/4" = 1'-0"

APPROVED
 APPROVED AS NOTED
 DISAPPROVED
 REVISE & RESUBMIT
 AUG 14 2017
 CITY OF DEER PARK



REFERENCE GENERAL NOTES ON SHEETS M-1.1, P-1.1 AND E-1.1 FOR ADDITIONAL INFORMATION

HCE HENDRIX CONSULTING ENGINEERS

This document, the ideas and designs incorporated herein are and shall remain the property of Hendrix Consulting Engineers. These documents are not to be used or altered, in whole or in part, for other than the original intended use, nor are they to be assigned to any third party without written permission from Hendrix Consulting Engineers. F - 4095

HCE job no.: 17-026

INTERLOCK AHU-1/ HP-1 WITH SENSOR FOR OVERHEAD ROLL-UP WINDOWS IN CONCESSION STAND SUCH THAT WHEN OVERHEAD ROLL-UP WINDOWS ARE OPENED, AHU-1/HP-1 POWERS OFF.

CONCESSION / RESTROOM BUILDING

SOCCER FIELD DEVELOPMENT PHASE I
407 W X ST. CITY OF DEER PARK, TEXAS

PROJECT PHASE
BID - 8/10/2017

REVISIONS
CITY OF DEER PARK
Date Received
AUG 11 2017
ENGINEERING DEPARTMENT

PROJECT NUMBER
16123-00

DATE ISSUED
8/10/2017

SHEET TITLE
FLOOR PLAN - MECHANICAL

SHEET NUMBER
M-2.1

G:\2017\DEERPARK - SOFTBALL RESTROOM\02828M2.1.dwg, 8/10/2017 11:36:10 AM, JESUS, Bluebeam PDF, ANSLD_ (22.00 x 34.00 inches), 0.125x12

PIPE SIZING REQUIREMENTS

- ALL FLOOR DRAINS AND FLOOR SINKS MUST HAVE TRAP PRIMERS. PROVIDE INVERTED TEE CONNECTION FROM SINK TAILPIECE OR FLUSH VALVE TYPE TRAP PRIMER CONNECTION TO ALL FLOOR DRAINS, FLOOR SINKS AND HUB DRAINS. AS LAST RESORT PROVIDE MECHANICAL TYPE TRAP PRIMER (PPP INC. "OREGON #1" TYPE). CONNECT TO NEAREST WATER SERVING THAT AREA PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. IN JURISDICTIONS WHERE PRESSURE ACTIVATED MECHANICAL PRIMERS ARE NOT ALLOWED, USE ELECTRONIC TRAP PRIMERS. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR. PROSET "TRAP GUARD" DEVICE MAY BE USED IN LIEU OF TRAP PRIMERS WHEN ALLOWED BY LOCAL CODE AUTHORITY HAVING JURISDICTION. BEFORE USING PROSET "TRAP GUARD" CONTRACTOR MUST OBTAIN WRITTEN APPROVAL FROM LOCAL CODE AUTHORITY HAVING JURISDICTION AND PROVIDE COPIES TO ARCHITECT AND ENGINEER.
- PIPING SIZE FOR WATER MAIN DROPS AND MANIFOLD IN CHASE OR WALL TO REMAIN FULL SIZE OF DROP INDICATED. REFERENCE FIXTURE CONNECTION SCHEDULE FOR INDIVIDUAL LINE SIZE TO EACH FIXTURE.
- COORDINATE ALL WASTEWATER FLOOR PENETRATIONS AND PIPING PENETRATIONS WITH STRUCTURAL PRIOR TO INSTALLATION. PIPING MAY BE OFFSET SLIGHTLY TO AVOID STRUCTURAL CONFLICTS.
- ROUTE VENT FROM EACH FIXTURE TO HORIZONTAL VENT HEADER IN CHASE/WALL OR TO NEAREST COMMON VTR ABOVE CEILING. REFERENCE FIXTURE CONNECTION SCHEDULE FOR INDIVIDUAL FIXTURE VENT SIZES. VENT HEADERS IN CHASE TO BE SIZED ACCORDINGLY: 1 1/2" VENT UP TO 6 DRAIN FIXTURE UNITS MAXIMUM DEVELOPED LENGTH OF 60 FEET (EXCEPT FOR WATER CLOSETS), 2" VENT UP TO 20 DRAIN FIXTURE UNITS MAXIMUM DEVELOPED LENGTH OF 120 FEET, 3" VENT UP TO 84 DRAIN FIXTURE UNITS MAXIMUM DEVELOPED LENGTH OF 212 FEET AND 4" VENT UP TO 256 DRAIN FIXTURE UNITS MAXIMUM DEVELOPED LENGTH OF 300 FEET. BRANCH VENTS EXCEEDING 40 FEET IN DEVELOPED LENGTH ARE TO BE INCREASED BY ONE PIPE SIZE. NO MORE THAN 1/3 OF THE CODE PERMITTED DEVELOPED LENGTH SHALL BE IN HORIZONTAL POSITION. EXTEND COMMON VENT UP THROUGH ROOF.
- ROUTE ALL VENTS TO NEAREST COMMON VENT THRU ROOF (VTR) TO MINIMIZE ROOF PENETRATIONS. VTR TO BE MINIMUM 15 FEET AWAY FROM OUTSIDE AIR INTAKES. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.

FIXTURE CONNECTION SCHEDULE

MARK	CW	HW	TW	WASTE	DRAIN FIXTURE UNITS	VENT
WATER CLOSET (FLUSH VALVE)	1"	-	-	4"	6	2"
WATER CLOSET (TANK TYPE)	1/2"	-	-	4"	4	2"
URINAL	3/4"	-	-	2"	2	2"
LAVATORY *	1/2"	-	1/2"	2"	1	1 1/2" **
SINK ***	1/2"	1/2"	1/2"	2"	2	1 1/2" **
SERVICE SINK	3/4"	3/4"	-	3"	2	2"
WASH FOUNTAIN	1/2"	-	1/2"	2"	2	1 1/2" **
EWV	1/2"	-	-	2"	1	1 1/2" **
WASHING MACHINE	3/4"	3/4"	-	2"	2	2"
HOSE BIBB	3/4"	-	-	-	-	-
SHOWER * ** *	1/2"	1/2"	-	3"	2	1 1/2"
FLOOR DRAIN	-	-	-	3"	2	2"

* HOT (TEMPERED) AND COLD WATER REQUIRED UNLESS NOTED OTHERWISE ON PLUMBING FIXTURE SCHEDULE. PROVIDE TEMPERATURE MIXING VALVE (ASSE 1070) AT THE FIXTURE.
 ** IF HORIZONTAL VENT LENGTH EXCEEDS 20 FEET, INCREASE VENT SIZE TO TWO INCHES.
 *** COMMERCIAL KITCHEN SINKS GET HOT WATER, REMAINDER TO BE PROVIDED WITH TEMPERATURE MIXING VALVE (ASSE 1070) AT THE FIXTURE.
 *** SHOWER VALVES TO BE BALANCED-PRESSURE, THERMOSTATIC OR COMBINATION BALANCED-PRESSURE/THERMOSTATIC CONFORMING TO ASSE 1016.

PLUMBING LEGEND

SYMBOL	ABB.	DESCRIPTION
---	CW	COLD WATER PIPING
---	HW	HOT WATER PIPING
---	HWR	HOT WATER RETURN PIPING
---	WW	WASTE WATER
---	WV	VENT PIPING
---	T	TEMPERED WATER
---	G	GAS PIPING
---	F	FIRE LINE
---	GT	GREASE TRAP LINE
---	A	COMPRESSED AIR PIPING
---	D	RELIEF OR CONDENSATE DRAIN PIPING
---	SD	STORM DRAIN
---	RL	RAIN LEADER
---	ORL	OVERFLOW RAIN LEADER
---	FF	FULL PORT BALL PIPE ISOLATION VALVE
---	HB	HOSE BIBB/WALL HYDRANT
---	U	UNION
---	FD/FS	FLOOR DRAIN/FLOOR SINK
---	HD	HUB DRAIN
---	CO	CLEAN OUT
---	DCO	DOUBLE CLEAN OUT
---	WCO	WALL CLEAN OUT
---	GAS COCK	GAS COCK
---	BALANCE VALVE	BALANCE VALVE
---	CHECK VALVE	CHECK VALVE
---	POINT OF CONNECTION	POINT OF CONNECTION
---	GAS PRESSURE REGULATOR	GAS PRESSURE REGULATOR

M/P ABBREVIATION SCHEDULE

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AD	ACCESS DOOR	MAINT	MAINTENANCE
ABV	ABOVE FINISHED FLOOR	MAU	MAKEUP AIR UNIT
ARCH	ARCHITECT	MC	MECHANICAL CONTRACTOR
AUTD	AUTOMATIC	MH	1000 STU PER HOUR
AUX	AUXILIARY	MEDH	MECHANICAL
AVU	AIR HANDLING UNIT	MN	MANIPULATE
B	BALANCE DAMPER	MNS	MISCELLANEOUS
BFB	BELOW FINISHED FLOOR	MOT	MOUNTED
BFG	BELONG	MOS	MOTOR OPERATED DAMPER
BD	BOTTOM OF DUCT	INC	NOT IN CONTRACT
BOP	BOTTOM OF PIPE	N.O.	NORMALLY OPEN
BF	BOOSTER FAN	N.C.	NORMALLY CLOSED
CLG	CEILING	NO.	NUMBER
CLG	CLEARANCE	NTS	NOT TO SCALE
CO	CLEANOUT	OA	OUTDOOR AIR
COL	COLUMN	OD	OPPOSED BLADE DAMPER
CONC	CONCRETE	OC	ON CENTER(S)
CONTR	CONTRACTOR	OPEN	OPENING
CW	COLD WATER	ORL	OVERFLOW RAINLEADER
CONN	CONNECTION	OUH	OUTSIDE AIR HOOD
CU	CUPPER	PC	PLUMBING CONTRACTOR
CHS	CHILLED WATER SUPPLY	PH	PHASE
CHR	CHILLED WATER RETURN	PLB	PLUMBING
DIA	DIAMETER	R/A	RETURN AIR
DN	DOWN	REF	REFERENCE/REFER TO
DND	DRAINING	REFRO	REFRIGERANT
DH	DUCT HEATER	REG	REGULATOR
E/A	EXHAUST AIR	REGR	REGURATOR
EC	ELECTRICAL CONTRACTOR	RHP	RADIANT HEAT PANEL
EF	EXHAUST FAN	RK	RANKLEADER
ELEC	ELECTRIC/ELECTRICAL	RM	ROOM
EQ	EQUAL	RTU	ROOFTOP UNIT
EQU	EQUIPMENT	S/A	SUPPLY AIR
EX	EXHAUST	SEC	SECURED
EXP.	EXTERNAL STATIC PRESSURE	SP	STATIC PRESSURE
ERV	ENERGY RECOVERY VENTILATOR	SPC	SPECIFICATION
FD	FLOOR CLEAN OUT	ST	STORM DRAIN
FDU	FAN COIL UNIT	STP	SUPPLY FAN
FF	FRESH FLOOR	STP	STYLL STYIC PRESSURE
FLX	FLEXIBLE	TYP	TYPICAL
FLR	FLOOR/FLOORING	UN	UNLESS OTHERWISE NOTED
GA	GAUGE	UNDR	UNDERDRAIN
GC	GENERAL CONTRACTOR	UH	UNIT HEATER
GEN	GENERAL	V	VENT (PLUMBING)
GYP	GYPSON BOARD	V	VOLTAGE (ELECTRICAL)
HP	HEAT PUMP	VTR	VENT THROUGH ROOF
H	HORSEPOWER	W	WITH
HT	HEIGHT	W/O	WITHOUT
HW	HOT WATER	WTR	WATERPROOF
HWC	HOT WATER CIRC	WT	WEIGHT
HWS	HOT WATER SUPPLY	WTR	WATER
HWR	HEATING WATER RETURN	WV	WASTE WATER
HWS	HEATING WATER SUPPLY	WCO	WALL CLEANOUT
LOC	LOCATION	WH	WATER HEATER

GENERAL NOTES

- THE CONTRACTOR IS TO VISIT THE SITE PRIOR TO BID TO FAMILIARIZE HIMSELF WITH ALL CONDITIONS AS THEY EXIST. SUBMISSION OF BID INDICATES THE CONTRACTOR'S UNDERSTANDING OF EXISTING CONDITIONS AND HIS WILLINGNESS TO WORK WITH THESE CONDITIONS. NO ADDITIONAL TIME OR MONEY WILL BE ALLOTTED DUE TO LACK OF COORDINATION WITH EXISTING CONDITIONS OR OTHER TRADES.
- CONTRACTORS TO REVIEW AND COMPARE ALL DRAWINGS SO ALL WORK IN THEIR RESPECTIVE TRADE IS INCLUDED IN BID. EACH CONTRACTOR SHALL INCLUDE ALL MATERIALS AND INSTALLATION REQUIRED FOR HIS PARTICULAR TRADE AFTER COMPLETE REVIEW OF ALL CONTRACT DRAWINGS AND SPECIFICATIONS.
- ALL WORK SHALL COMPLY WITH THE APPLICABLE LOCAL, STATE AND FEDERAL CODES AND ORDINANCES. FOLLOW RECOMMENDED PRACTICES AS SET DOWN BY ASME, SMACNA, ASHRAE, NFPA, APPLICABLE BUILDING CODE, APPLICABLE MECHANICAL CODE, APPLICABLE PLUMBING CODE, NATIONAL ELECTRICAL CODE, AGA, ADA AND OSHA, AS THEY APPLY TO THIS PROJECT EXCEPT IN CASES WHERE LOCAL STATUTES GOVERN.
- THE CONTRACTOR SHALL VERIFY WITH AUTHORITY HAVING JURISDICTION THE LATEST ADOPTED LOCAL CODES, ORDINANCES AND AMENDMENTS THAT APPLY TO THIS PROJECT. PROVIDE CONDENSATE DISPOSAL POINT FOR ALL MECHANICAL EQUIPMENT TO CODE APPROVED DISPOSAL. COORDINATE WITH MECHANICAL CONTRACTOR.
- ABSOLUTELY NO PIPING OR DUCTWORK CAN BE ROUTED ABOVE ELECTRICAL PANELS, GEAR OR TRANSFORMERS. THE ONLY HVAC, PLUMBING, SPRINKLER OR DUCTWORK THAT CAN ENTER AN ELECTRIC ROOM ARE THOSE SPECIFICALLY SERVING THAT ROOM. THESE SERVICES CAN ONLY ENTER INTO ELECTRIC ROOM ABOVE ENTRY DOOR.
- PROVIDE VALVE TAGS FOR ALL VALVES. PROVIDE CEILING ACCESS MARKERS FOR VALVES LOCATED ABOVE CEILING OR BEHIND WALL MOUNTED PANEL.
- PLUMBING PIPING SHALL NOT BLOCK ACCESS TO EQUIPMENT, JUNCTION BOXES, DISCONNECTS, ACCESS DOORS, ETC.
- ALL VALVES ARE TO BE ACCESSIBLE AND SHALL NOT BE LOCATED MORE THAN FOUR FEET ABOVE THE CEILING.
- CONTRACTOR TO CONNECT COLD WATER, TEMPERED WATER, WASTE WATER AND VENT PIPING TO ALL FIXTURES PER MANUFACTURER'S RECOMMENDATIONS, UNLESS OTHERWISE NOTED ON DRAWINGS.
- BEFORE ANY CUTTING OR TRENCHING OPERATIONS BEGIN, VERIFY WITH OWNER'S REPRESENTATIVE, UTILITY COMPANIES AND OTHER INTERESTED PARTIES THAT ALL AVAILABLE INFORMATION HAS BEEN PROVIDED CONCERNING EXISTING UTILITY LOCATION. VERIFY LOCATIONS GIVEN. CONTACT ARCHITECT IMMEDIATELY UPON UNCOVERING UNKNOWN UTILITIES FOR FURTHER DIRECTION. INDICATE ALL UNCOVERED UTILITIES ON RECORD DRAWINGS.
- INSTALL ROOF JACK AS REQUIRED AT ALL GAS PIPING ROOF PENETRATIONS.
- FIRE SEAL AROUND ALL PIPING AT PENETRATIONS THROUGH RATED WALLS, CEILINGS AND TUNNELS PER UL LISTED MATERIAL FOR ACTUAL SEALANT BEING USED. COORDINATE WITH ARCHITECTURAL PLANS FOR RATED WALL LOCATION.
- PROVIDE ALL APPROPRIATE TOOLS, WRENCHES, KEYS, ETC. AS REQUIRED FOR ACCESS AND OPERATION OF VALVES, COVERS, ETC.
- DO NOT ROUTE PIPING UNDER EQUIPMENT LOCATED ABOVE CEILING. ROUTE PIPING AROUND EQUIPMENT TO ALLOW FOR ACCESS AROUND EQUIPMENT AND FOR FUTURE REMOVAL OF EQUIPMENT.
- PLUMBING CONTRACTOR IS RESPONSIBLE FOR PROVIDING FLUES AND COMBUSTION AIR PIPING TO EXTERIOR FOR GAS FIRED WATER HEATERS AND BOILERS.
- PROVIDE HEAT TRAPS ON INCOMING AND DISCHARGE LINES FROM WATER HEATERS WHICH DO NOT HAVE THEM FACTORY INSTALLED OR ARE NOT CONNECTED TO A RECIRCULATING SYSTEM.

PLUMBING FIXTURE SCHEDULE

- NOTES:**
- REFERENCE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 - ALL WALL HUNG FIXTURES TO BE INSTALLED WITH WALL CARRIERS, VERIFY CONFIGURATION TYPE.
 - PROVIDE VANDAL RESISTANT SCREWS AT ALL FIXTURES.
 - INSTALL STAINLESS STEEL CAPS AT ALL UNUSED LAVATORY FAUCET HOLES.
 - NO OFFSET FLANGES WILL BE ALLOWED FOR WATER CLOSET INSTALLATIONS.
 - GROUT FOR LEVELING WATER CLOSETS SHALL NOT EXTEND UP ON SIDE OF WATER CLOSET BASES. TAKE GROUT BACK TO MINIMUM 1/8" UNDER BASE AND CAULK FOR FINAL FINISH. VERIFY CAULK COLOR AND TYPE WITH ARCHITECT.
 - REFERENCE ARCHITECTURAL CONTRACT DOCUMENTS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES. CONTACT ARCHITECT FOR ADDITIONAL INFORMATION AS REQUIRED.
 - PROVIDE INVERTED TEE CONNECTION FROM SINK TAILPIECE OR FLUSH VALVE TYPE TRAP PRIMER CONNECTION TO ALL FLOOR DRAINS, FLOOR SINKS AND HUB DRAINS. AS LAST RESORT PROVIDE MECHANICAL TYPE TRAP PRIMER (PPP INC. "OREGON #1" TYPE). CONNECT TO NEAREST WATER SERVING THAT AREA PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - ALL PLUMBING FIXTURES TO BE "LEAD FREE" AB1953 COMPLIANT (25% OR LESS AVERAGE LEAD CONTENT). PROVIDE DOCUMENTATION IN SUBMITTALS THAT THIS REQUIREMENT IS MET FOR EACH APPLICABLE FIXTURE.

WCW
WATER CLOSET: ACORN MODEL #1680-W-1-HET-FVBO-FT-MT-SW, WALL/CHASE MOUNTED, SEAMLESS WELDED 14 GAUGE TYPE 304 STAINLESS STEEL, CONCEALED SUPPLY, ELONGATED BOWL, INTEGRAL SEAT, FLOOD-TROL (MANUAL RESET) METAL TEMPLATE AND WALL SLEEVE, CONCEALED FLUSH VALVE: SLOAN ROYAL 9603-1.28 GPF, 1.28 GALLON MANUAL PUSH BUTTON FLUSH WITH CHROME PLATED WALL COVER. PROVIDE WITH FLUSH VALVE TRAP PRIMER VBF-21-A AS REQUIRED.

WCWH
WATER CLOSET (ADA): ACORN MODEL #1680-W-1-HET-FVBO-ADA-FT-MT-SW, WALL/CHASE MOUNTED, SEAMLESS WELDED 14 GAUGE TYPE 304 STAINLESS STEEL, CONCEALED SUPPLY, ELONGATED BOWL, INTEGRAL SEAT, FLOOD-TROL (MANUAL RESET) METAL TEMPLATE AND WALL SLEEVE, CONCEALED FLUSH VALVE: SLOAN ROYAL 9603-1.28 GPF, 1.28 GALLON MANUAL PUSH BUTTON FLUSH WITH CHROME PLATED WALL COVER. PROVIDE WITH FLUSH VALVE TRAP PRIMER VBF-21-A AS REQUIRED.

UR
URINAL: ACORN MODEL #1709-W-1-5-FYBO-MT-SW, WALL MOUNTED, SEAMLESS WELDED HEAVY GAUGE STAINLESS STEEL, CONCEALED SUPPLY, CONCEALED FLUSH VALVE: SLOAN ROYAL 9613-0.5, 0.5 GALLON MANUAL PUSH BUTTON FLUSH WITH CHROME PLATED WALL COVER, METAL TEMPLATE AND WALL SLEEVE. PROVIDE WITH FLUSH VALVE TRAP PRIMER AS REQUIRED.

URH
URINAL (ADA): ACORN MODEL #1709-W-1-5-FYBO-MT-SW, WALL MOUNTED, SEAMLESS WELDED HEAVY GAUGE STAINLESS STEEL, CONCEALED SUPPLY, CONCEALED FLUSH VALVE: SLOAN ROYAL 9613-0.5, 0.5 GALLON MANUAL PUSH BUTTON FLUSH WITH CHROME PLATED WALL COVER, METAL TEMPLATE AND WALL SLEEVE. PROVIDE WITH FLUSH VALVE TRAP PRIMER AS REQUIRED.

LH
LAVATORY (ADA): ACORN MODEL #1652LRB-DMS-PPZ1-MT-SW-ST70, WALL/CHASE MOUNTED, SEAMLESS WELDED HEAVY GAUGE STAINLESS STEEL, TOUCH TIME SINGLE TEMPERATURE ELECTRONIC METERING VALVE, DECK MOUNTED SPOUT AND ASSE 1070 THERMOSTATIC MIXING VALVE, METAL TEMPLATE AND WALL SLEEVE.

KS3
3 COMPARTMENT SINK: ELKAY #NFS8360LR4, 14 GAUGE STAINLESS STEEL, 1/4" RADIUS COVERED CORNER CONSTRUCTION, 24" x 20" x 14" DEEP BOWLS, 8" HIGH FULL LENGTH SLOPED BACKSPLASH, DRAINBOARDS LEFT AND RIGHT, STAINLESS STEEL TUBULAR LEGS WITH ADJUSTABLE BULLET FEET. FAUCETS: TWO (2) ELKAY #LK945AT12T4T, 4" WRIST BLADE HANDLES.

HS
KITCHEN HAND SINK (ADA): ELKAY #ELVW02219, 304 STAINLESS STEEL, NSF, COMPLETE WITH WALL HANGER, INTEGRAL STAINLESS STEEL SUPPORT BRACKETS, INTEGRAL OVERFLOW. PROVIDE WITH LK412 GOOSENECK FAUCET WITH 4" WRISTBLADE HANDLES AND LK723 THERMOSTATIC MIXING VALVE (ASSE 1070).

DFB
DRINKING FOUNTAIN (ADA): "MOST DEPENDABLE FOUNTAINS, INC" WALL MOUNT MODEL 10485WSS, DUAL LEVEL, RECESSED NOZZLE BOTTLE FILLER SPOUT, STAINLESS STEEL, STAINLESS STEEL COVER PLATE OVER WALL CARRIER PLATE, CANE APRON, VANDAL RESISTANT BUBBLER AND OPTIONAL CUT-OFF VALVE AND LOW POINT DRAIN. INSTALL PER MANUFACTURERS INSTALLATION INSTRUCTIONS.

SS
SERVICE SINK: FIAT #MSB-2424, ONE-PIECE MOLDED STONE WITH #832-AA HOSE AND HOSE BRACKET #E-77-AA VINYL BUMPER GUARD, MSG-2424 STAINLESS STEEL WALL GUARD AND #830-AA FAUCET.

WH
WATER HEATER: A.O.SMITH MODEL DEN-52, 50 GALLON STORAGE, 6KW-208V-3PH NON-SIMULTANEOUS ELEMENTS, 31 GPH RECOVERY AT 80 DEGREES RISE.

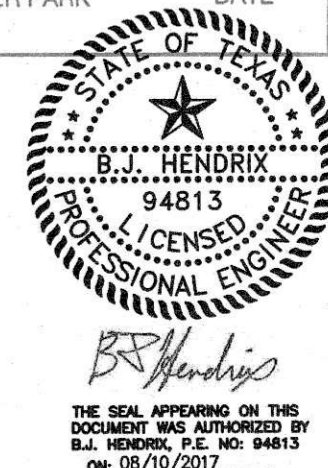
HB2
HOSE BIBB: WOODFORD MODEL 26, TEE KEY OPERATOR, ASSE 1052 OR 1101 BACKFLOW PREVENTER, CLOSE COUPLED, NO SPRAYBACK. PROVIDE SHUT-OFF VALVE INSIDE BUILDING IN ACCESSIBLE LOCATION. SLOPE LINE FROM SHUT-OFF VALVE TO WALL HYDRANT TO ALLOW DRAINING OF LINE FOR FREEZE PROTECTION.

FD
FLOOR DRAIN: C.I. BODY, FLASHING COLLAR, WEEPHOLES, ADJUSTABLE STAINLESS STEEL OR NICKEL BRONZE RECTANGULAR TOP (4" x 12"). MIFAB F1100C-RS-3 SERIES.

FD7
FLOOR DRAIN (KITCHEN): C.I. BODY, FLASHING COLLAR, WEEPHOLES, SECURED AND ADJUSTABLE STAINLESS STEEL OR NICKEL BRONZE SQUARE TOP (6" x 6") MINIMUM WITH COPPER SEDIMENT BASKET. TOP SIZE TO MATCH TILE SIZE AS CLOSE AS POSSIBLE, VERIFY TOP SIZE. MIFAB F1100 CS-3-5 SERIES.

FS
FLOOR SINK: 6" DEEP WITH ACID-RESISTING PORCELAIN ENAMEL INTERIOR, ALUMINUM INTERNAL DOME STRAINER, and STAINLESS STEEL GRATE (1/2 GRATE TYPE). MIFAB FS1720-3 SERIES.

APPROVED
 APPROVED AS NOTED
 DISAPPROVED
 REVISE & RESUBMIT 4/2017
 DATE: AUG 14 2017
 CITY OF DEER PARK



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY B.J. HENDRIX, P.E. NO. 94813 ON 08/10/2017

REFERENCE GENERAL NOTES ON SHEETS M1.1, P1.1 AND E1.1 FOR ADDITIONAL INFORMATION



This document, the ideas and designs incorporated herein are and shall remain the property of Hendrix Consulting Engineers. These documents are not to be used or altered, in whole or in part, for other than the original intended use, nor are they to be assigned to any third party without written permission from Hendrix Consulting Engineers. F-4095
 HCE job no.: 17-026

CONCESSION / RESTROOM BUILDING

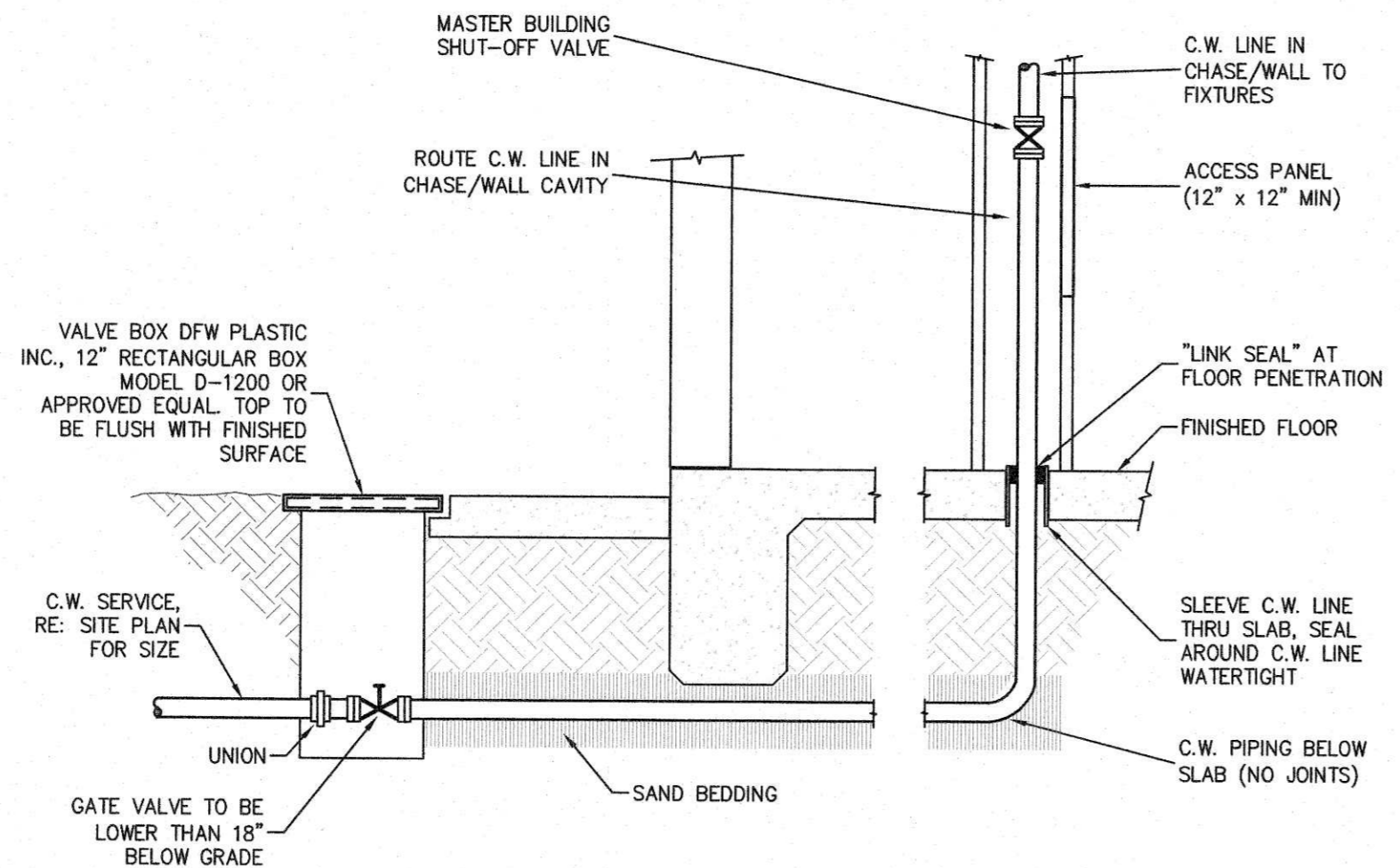
SOCCER FIELD DEVELOPMENT PHASE 1
 407 W X ST. CITY OF DEER PARK, TEXAS

PROJECT PHASE
 BID - 8/10/2017
 REVISIONS
 CITY OF DEER PARK
 Date Received
 AUG 11 2017
 ENGINEERING DEPARTMENT

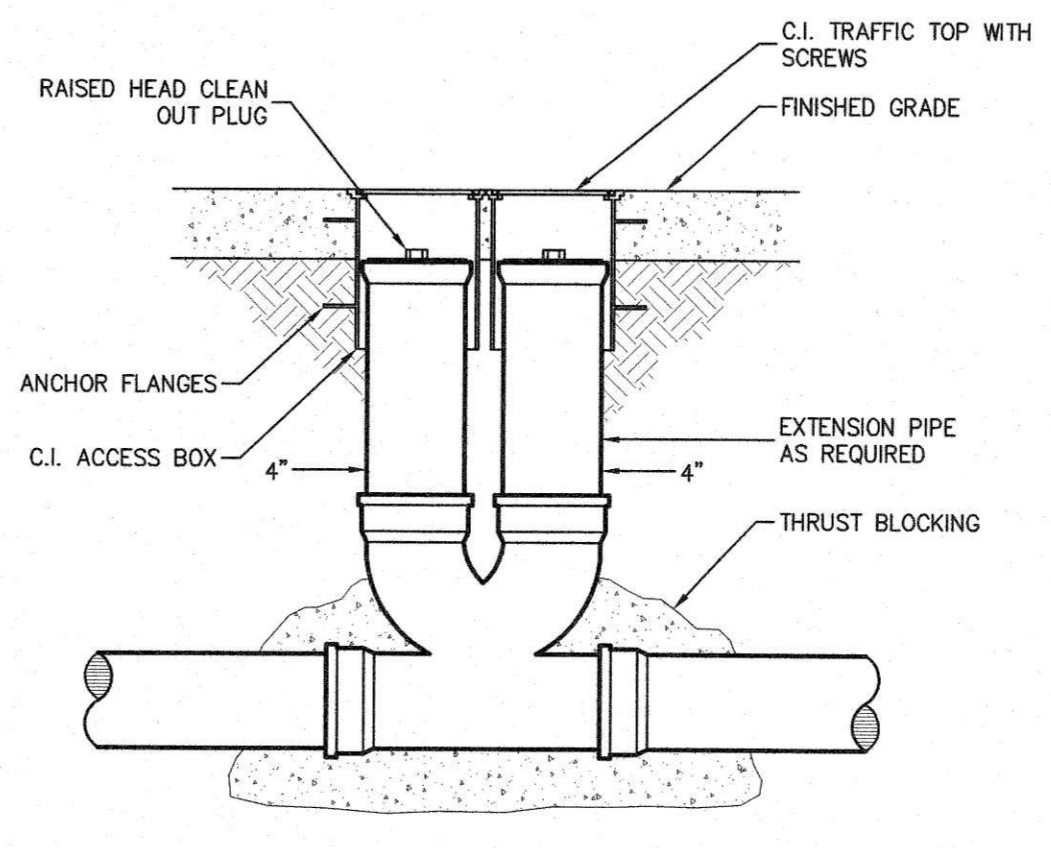
PROJECT NUMBER
 16123-00
 DATE ISSUED
 8/10/2017
 SHEET TITLE
 SCHEDULES, NOTES,
 AND LEGENDS -
 PLUMBING
 SHEET NUMBER

P-1.1

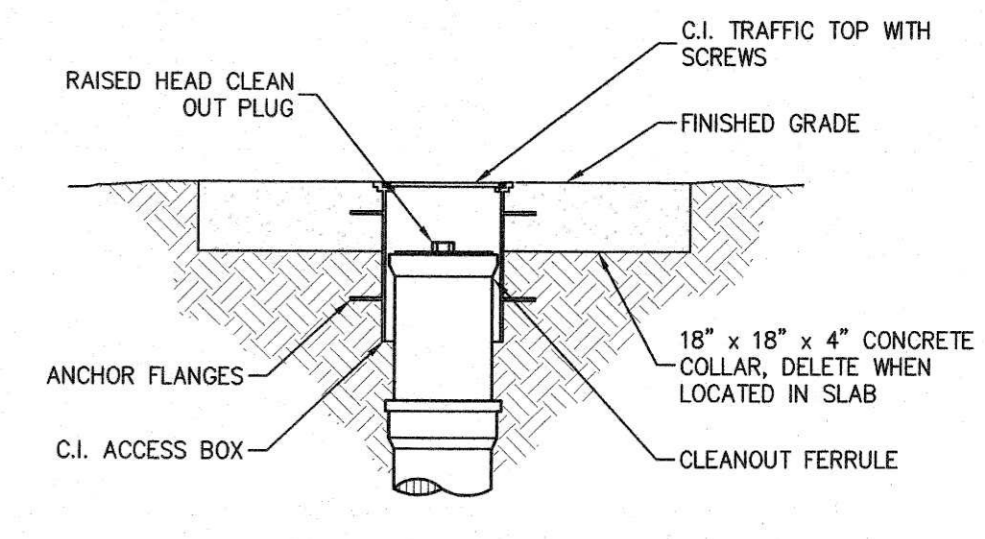
S:\2017\DEER PARK - SOFTBALL RESTROOM\02828BPT.1.dwg, 07/10/2017 11:34:58 AM, JESUSUS Bluebeam PDF - ANSICD [22.00_x_34.00_inches], 0.125x1.2



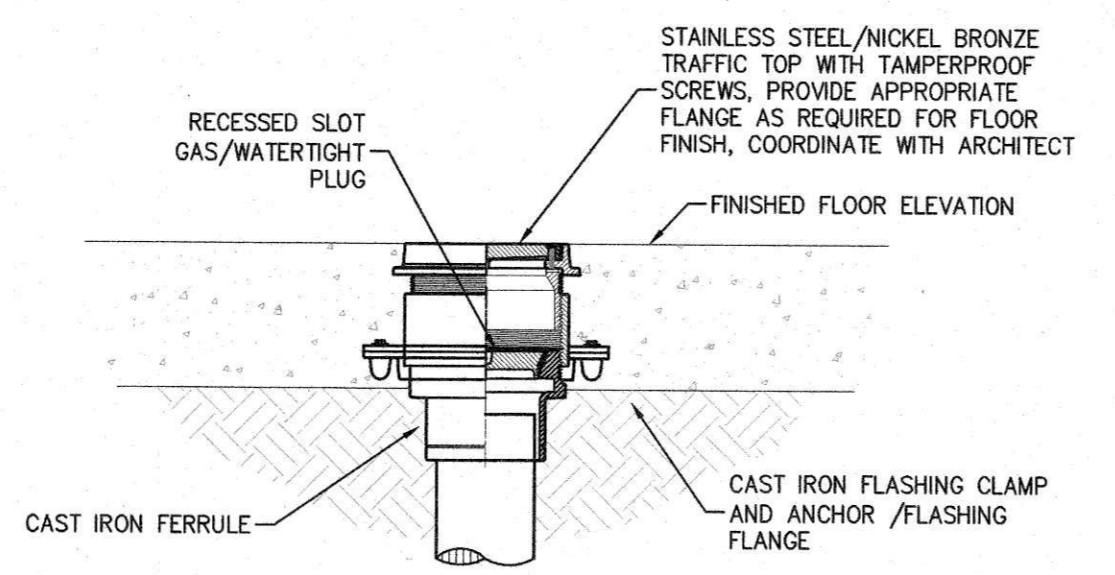
C.W. BUILDING ENTRY DETAIL
NO SCALE PDE52B



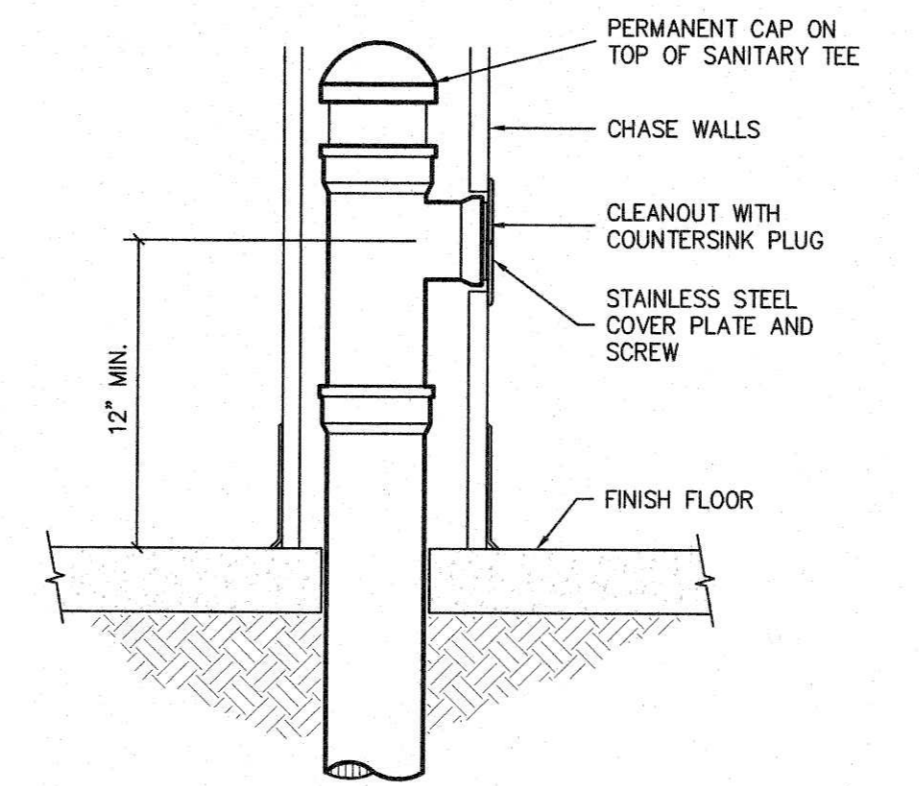
DOUBLE CLEANOUT DETAIL
NO SCALE PDE43



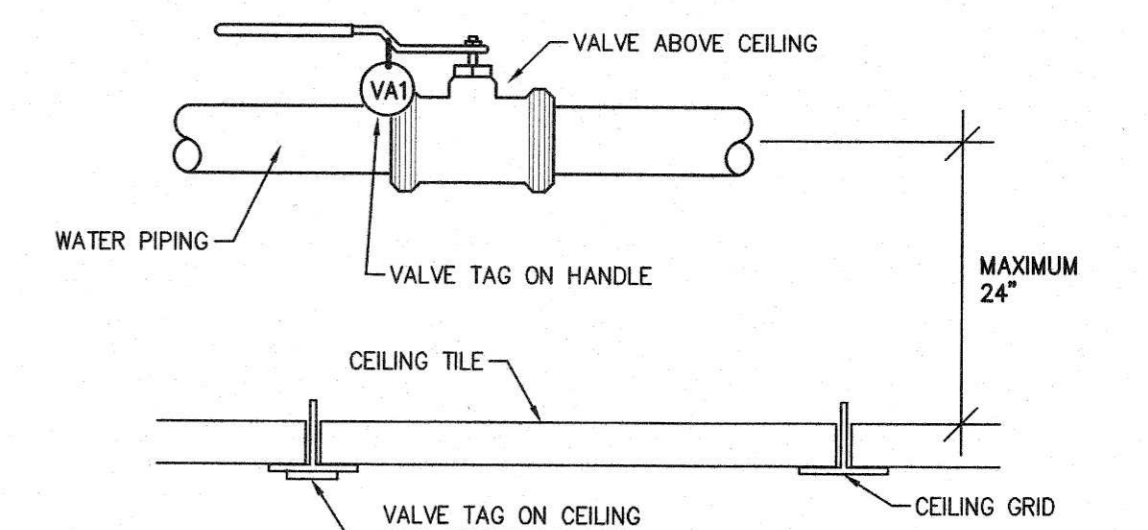
EXTERIOR CLEANOUT
NO SCALE PDE88



INTERIOR FLOOR CLEANOUT
NO SCALE PDE55

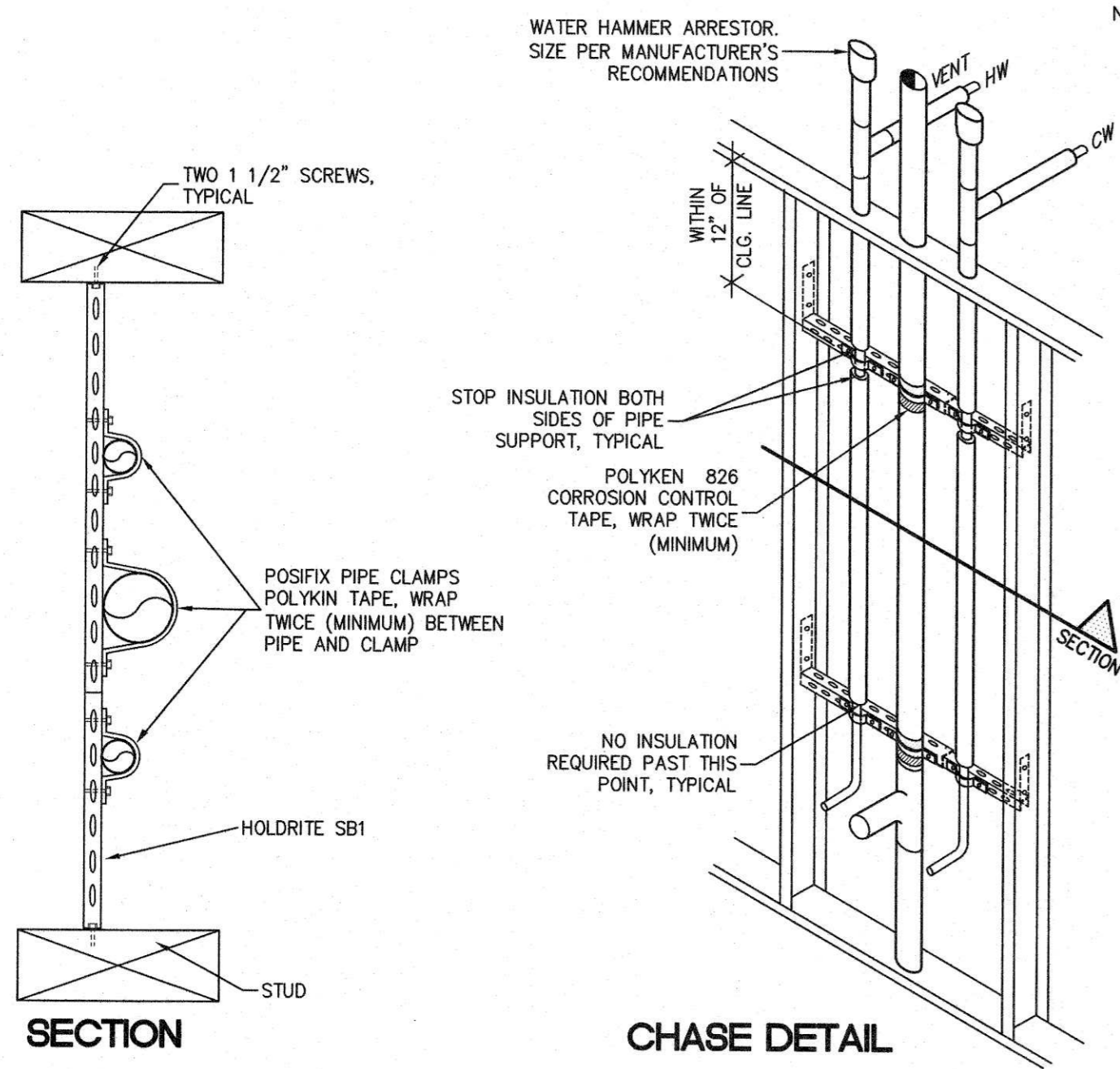


WALL CLEANOUT
NO SCALE PDE89

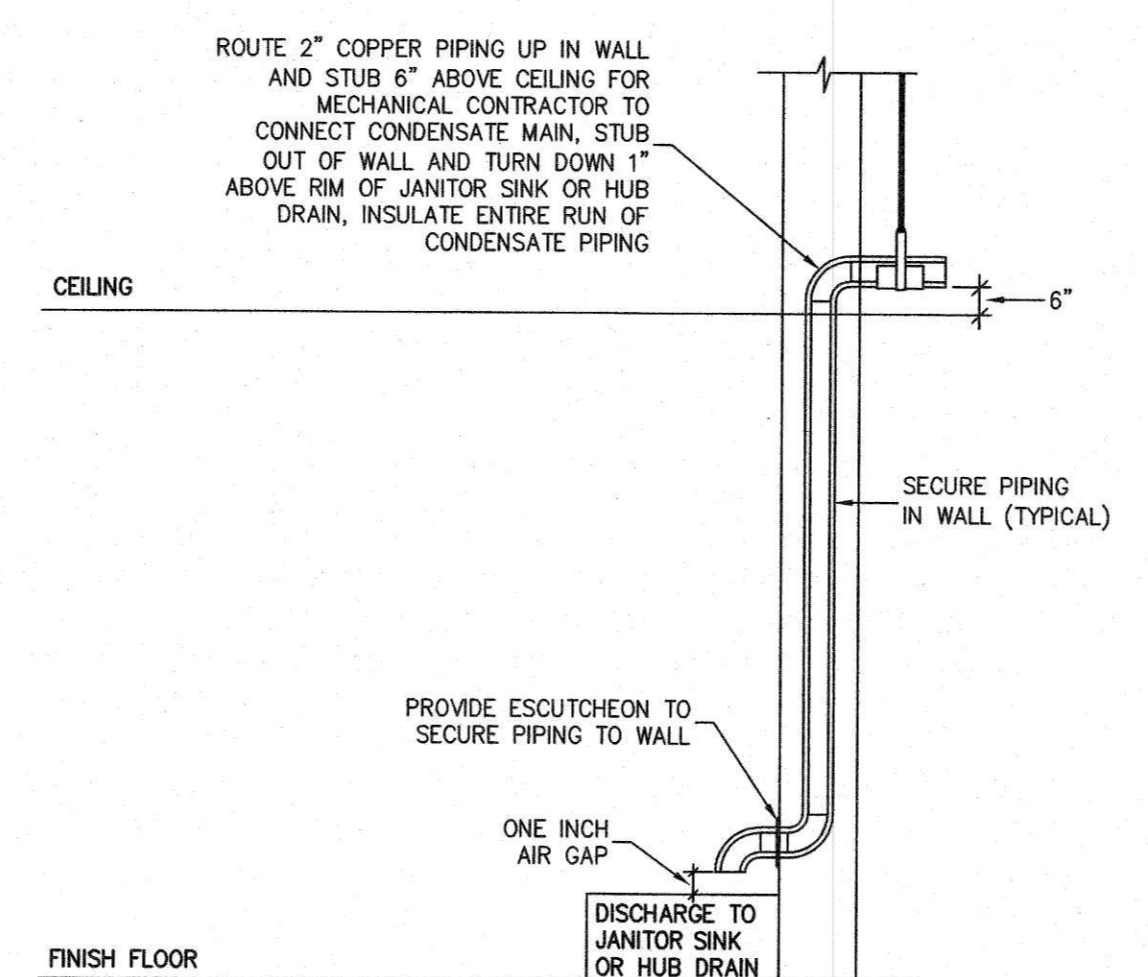


TYPICAL VALVE IDENTIFICATION DETAIL
SCALE: NO SCALE PDE27

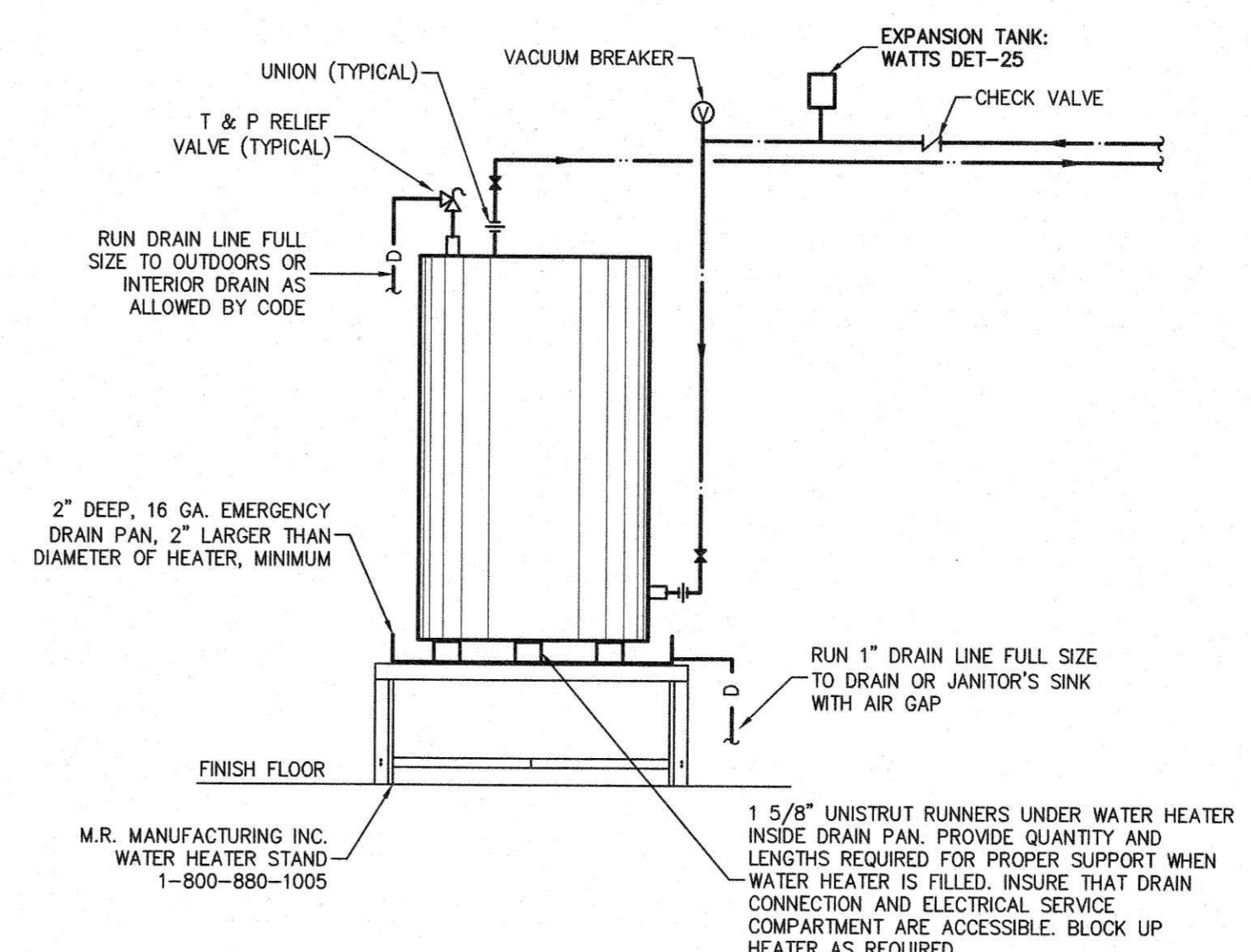
ALL VALVE LOCATIONS AND NUMBERS TO BE RECORDED ON RECORD DRAWINGS.



TYP. PLUMBING CHASE SUPPORT DETAIL
NO SCALE PDE30

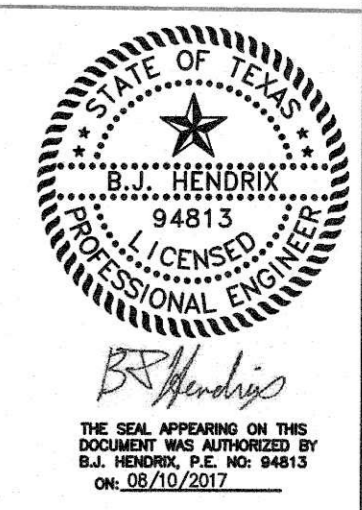


TYPICAL CONDENSATE STUB DETAIL
SCALE: NONE PDE37

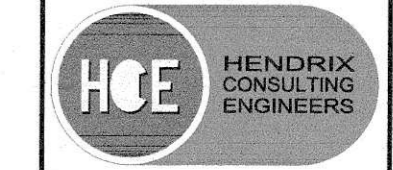


WATER HEATER DETAIL
NO SCALE PDE72

APPROVED
 APPROVED AS NOTED
 DISAPPROVED
 REVISE & RESUBMIT
AUG 14 2017
CITY OF DEER PARK DATE



REFERENCE GENERAL NOTES ON SHEETS M1.1, P1.1 AND E1.1 FOR ADDITIONAL INFORMATION



This document, the ideas and designs incorporated herein are and shall remain the property of Hendrix Consulting Engineers. These documents are not to be used or altered, in whole or in part, for other than the original intended use, nor are they to be assigned to any third party without written permission from Hendrix Consulting Engineers. F-4095

HCE job no.: 17-026

CONCESSION / RESTROOM BUILDING

SOCCER FIELD DEVELOPMENT PHASE 1
407 W X ST. CITY OF DEER PARK, TEXAS

PROJECT PHASE
BID - 8/10/2017

REVISIONS
CITY OF DEER PARK
Date Received
AUG 11 2017

ENGINEERING DEPARTMENT

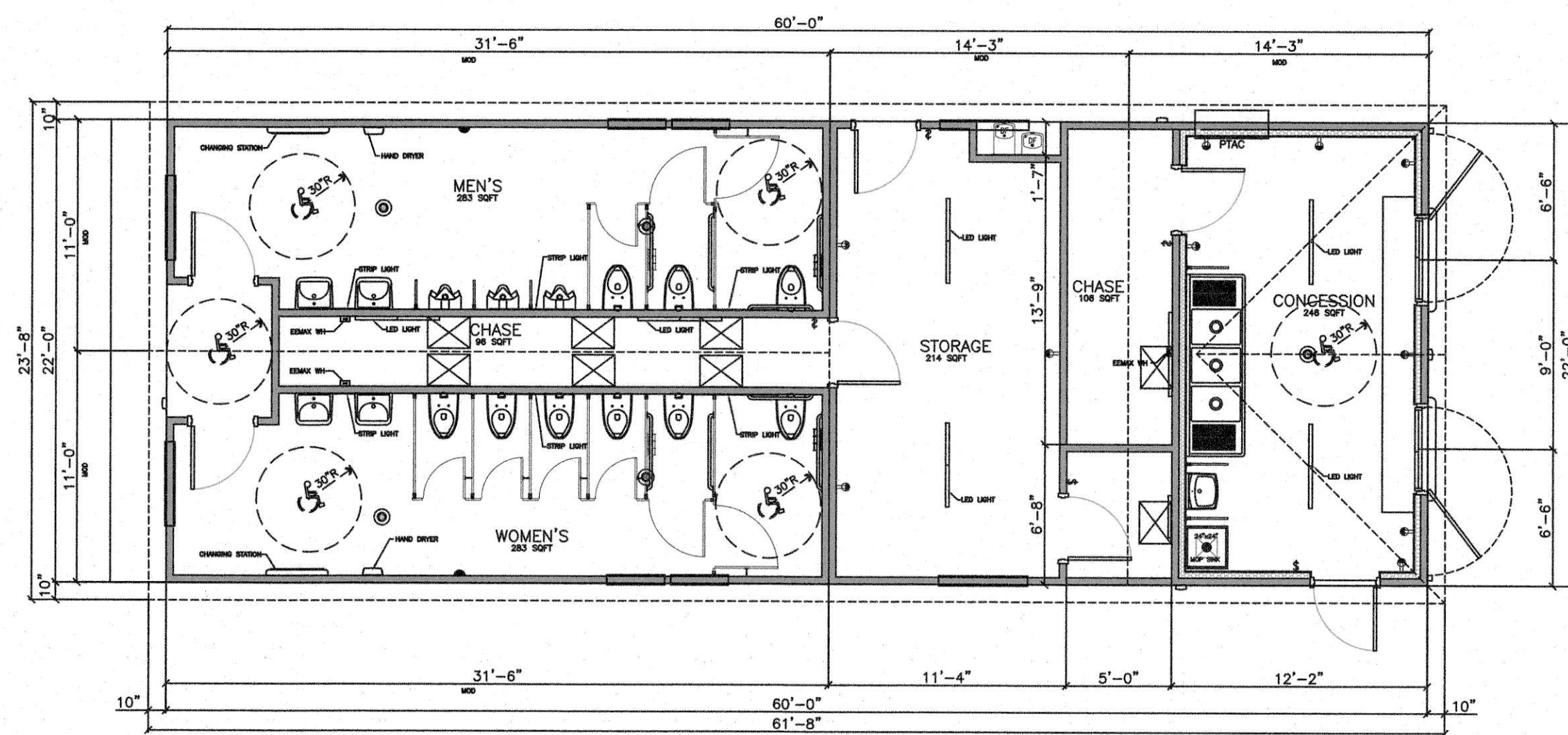
PROJECT NUMBER
16123-00
DATE ISSUED
8/10/2017
SHEET TITLE

DETAILS -
PLUMBING

SHEET NUMBER

P-1.2

S:\2017\DEERPARK - SOFTBALL RESTROOM\28P1.2.dwg, 8/10/2017 11:38:57 AM, JESUS, Bluebeam PDF, ANSID_1 (22.00 x 34.00 inches), 0.25:12



FLOOR PLAN 1320 SQFT

DESIGN DATA PLATE TO BE OF PLAQUE GRADE METAL, PAINTED BLACK. CRITERIA TO BE ENGRAVED TO METAL TO BE SCREWED TO WALL AT HINGE SIDE OF CHASE DOOR AT 60" AFF.

RFL Restroom Facilities Limited
 13010014 FOWBLE
 14000 ST. MARY'S LANE
 SUITE 160
 FORT WORTH, TEXAS 76120-2450
 TEL (817) 586-2450
 FAX (817) 586-2450

RFL MODEL #: B034STCN2
 PROJECT: GIRLS SOFTBALL WITH CONCESSION

DRAWN BY: MS
 DATE: 08/19/17
 DATE: REVISION:
 DATE: REVISION:
 DATE: REVISION:

SHEET DESCRIPTION:
 FLOOR PLAN

SHEET
 A1

GENERAL CONTRACTOR'S SCOPE OF WORK
TURNKEY INSTALLATION OF RESTROOM BUILDING WITH ATTACHED SLAB

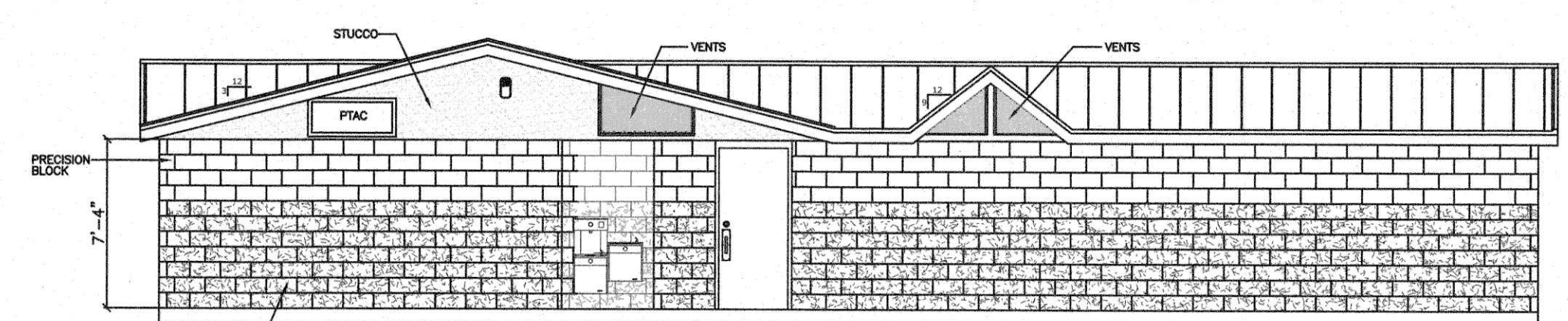
- SURVEY STAKES:**
Provide ten foot offset stakes and locate front corners of building, existing utilities, and inverts within the area of construction. Locate and mark final slab elevation.
- SUBGRADE PAD:**
Preparing the site is fairly simple. Detailed instructions to prepare the building site are as follows:
 - Excavate down ten inches below the finish floor elevation (the slab is eight inches thick on top of a two inch sand bed).
 - If soils are poor, it may be necessary to import six inches of Class II base rock, and pour for a footing and/or piers. (This is not necessary if native soils will compact)
 - Compact to 95%, or to local code requirement.
 - Compact one foot over in all directions (over build).
 - Supply approximately five cubic yards of clean sand, on side of site, for fine grading.
 - Excavate and backfill trenches up to and within building pad for RFL supplied underground utility service kits.
 - Provide water and inspection for RFL supplied underground sewer kit.
 - Depending on weather, all irrigation should be turned off prior to delivery to allow the surrounding soils to dry and bear the weight of the truck and crane.
 - Check corner locations against plans for proper sizing.
 - Verify finish floor elevation for concrete slab (shipped fully attached to the building.)
 - Excavate one foot perimeter footing if required by local code to specified depth.
- SITE ACCESS AND STORAGE:**
Provide suitable safe clear access to allow a crane (up to 110 tons), and the building on a semi-trailer (up to 40 tons) to reach site (14' width, 70' length, and 14' in height). If path to site is over existing utilities, sidewalks, or other damageable areas, proper marking, plating or other appropriate protection must be provided by General Contractor. General Contractor is responsible for removing any overhead obstructions (i.e. power lines, trees). This proposal provides for a 110 ton crane with access to within 25' of the building pad. The proposal is based on four (4) hours of crane time. If access is limited a larger crane may be required. All additional crane costs shall be borne by the CLIENT. A direct route to the project site is assumed. Should routes be altered due to road closures or restrictions, additional fees may apply.
- UTILITIES:**

- Bring water, sewer, and power (if applicable) utilities into point of connection Christy boxes (supplied by RFL), within six feet of the building line at the location shown on our plan.
- Water: RFL will furnish and install a water point of connection (isolation valve), from mechanical chase to a Christy box six feet from the building line. General Contractor must connect service to valve.
 - Sewer: RFL will furnish and install a sewer point of connection from mechanical chase to a Christy box six feet from the building line. General Contractor must connect service.
 - Electrical: (when this option is chosen) RFL will furnish and install a PVC conduit and a Christy box to the point of connection six feet from the building line. General Contractor to pull the electrical service line through the conduit and connect to the main panel lugs inside the building. All electrical inside the building will be furnished and installed by RFL, except as noted above in exclusions.
 - If the utilities are not available when we depart the site, testing and minor leaks will be the responsibility of the General Contractor.
 - A minimum 1 1/2" line with 25 gpm at 60 psi pressure minimum is required to ensure that water closets will operate as designed. If this is not available an auxiliary holding tank may be required.

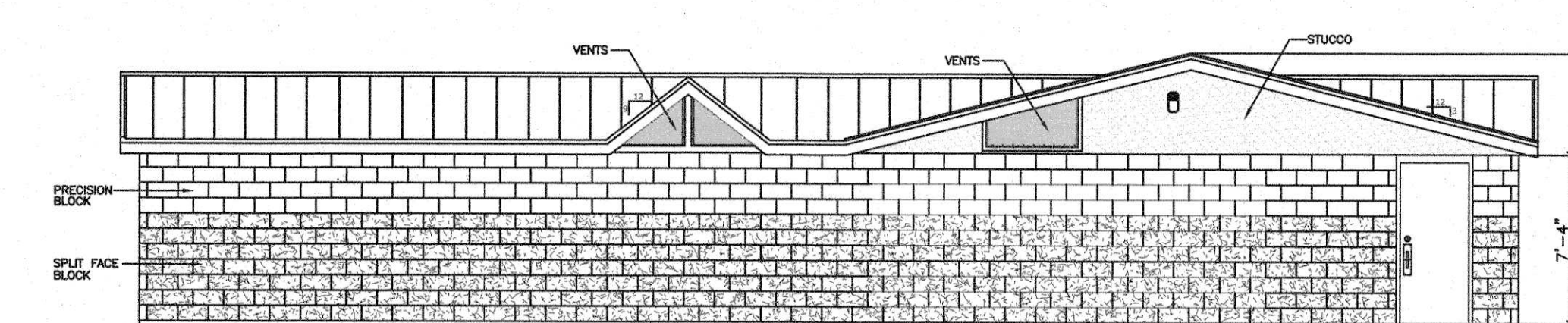
CITY OF DEER PARK
 GIRLS SOFTBALL RENOVATIONS
 AT YOUTH SPORTS COMPLEX
 407 W X ST.
 CITY OF DEER PARK TEXAS



HALFF
 14800 ST. MARY'S LANE
 SUITE 160 FORT WORTH, TEXAS 76120-2450
 TEL (817) 586-2450
 FAX (817) 586-2450



REAR ELEVATION



FRONT ELEVATION

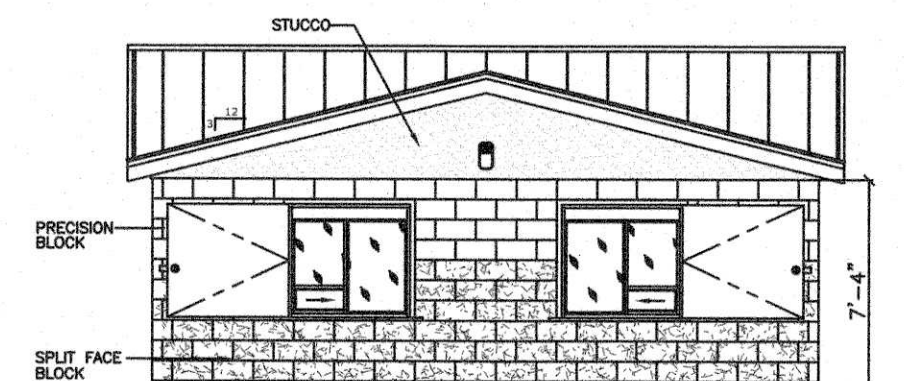
RFL Restroom Facilities Limited
 13010014 FOWBLE
 14000 ST. MARY'S LANE
 SUITE 160
 FORT WORTH, TEXAS 76120-2450
 TEL (817) 586-2450
 FAX (817) 586-2450

RFL MODEL #: B034STCN2
 PROJECT: GIRLS SOFTBALL WITH CONCESSION

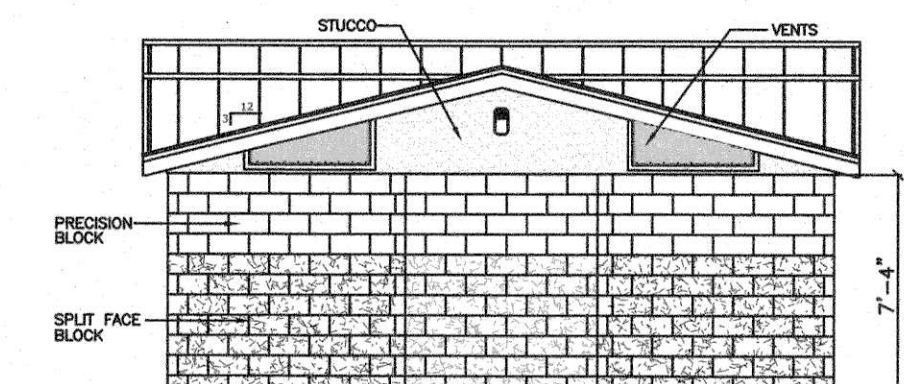
DRAWN BY: MS
 DATE: 08/19/17
 DATE: REVISION:
 DATE: REVISION:
 DATE: REVISION:

SHEET DESCRIPTION:
 ELEVATIONS

SHEET
 A2



RIGHT SIDE ELEVATION



LEFT SIDE ELEVATION

APPROVED
 APPROVED AS SHOWN
 DISAPPROVED
 REVISE & RESUBMIT

CITY OF DEER PARK AUG 2017

RFL Restroom Facilities Limited
 13010014 FOWBLE
 14000 ST. MARY'S LANE
 SUITE 160
 FORT WORTH, TEXAS 76120-2450
 TEL (817) 586-2450
 FAX (817) 586-2450

RFL MODEL #: B034STCN2
 PROJECT: GIRLS SOFTBALL WITH CONCESSION

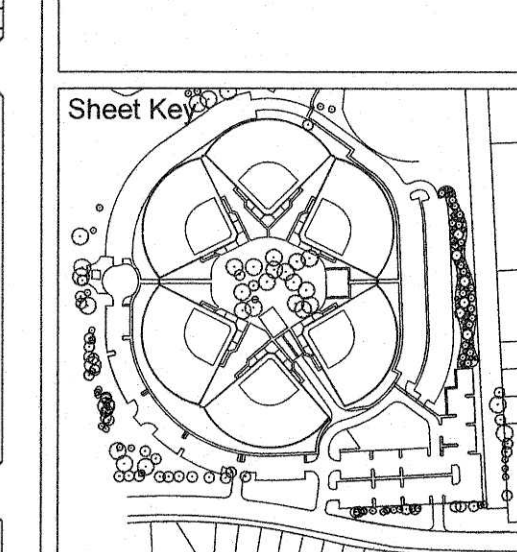
DRAWN BY: MS
 DATE: 08/19/17
 DATE: REVISION:
 DATE: REVISION:
 DATE: REVISION:

SHEET DESCRIPTION:
 ELEVATIONS

SHEET
 A3

Submital / Revision	No.	Date	Description
	1	08/10/17	BID SET

CITY OF DEER PARK
 Date Received
 AUG 11 2017
 ENGINEERING DEPARTMENT



Project No.: 31558-6A
 Issued: 08/10/17
 Drawn By: AA / BM
 Checked By: KD / BB
 Sheet Title

CORWORTH ARCHITECTURAL ALTERNATE
 AA1.0
 Sheet Number

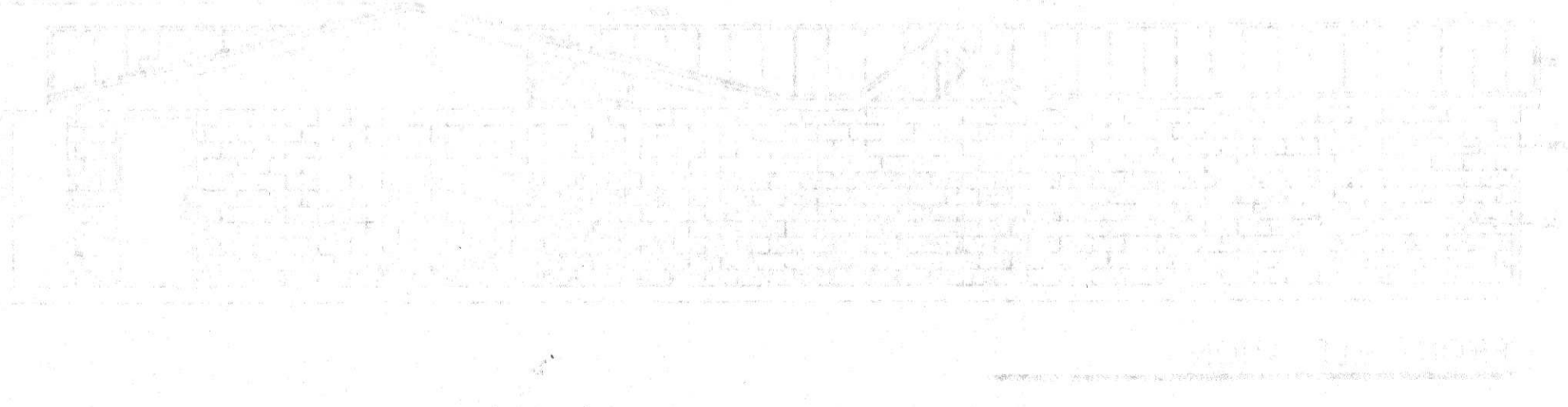
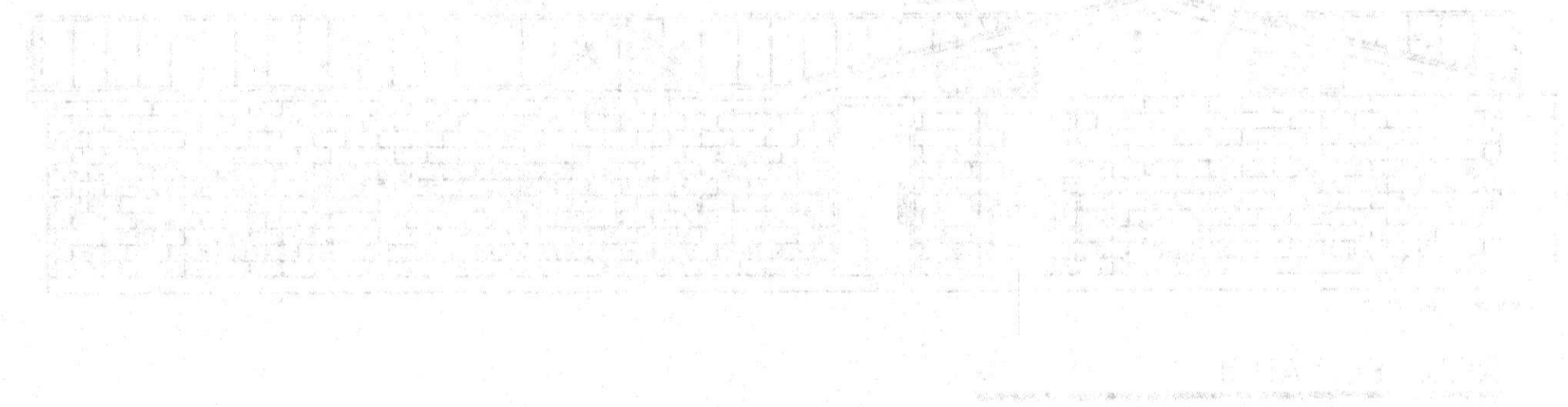
ARCHITECTURAL ALTERNATE
 OWNER TO PURCHASE PRE-FAB BUILDING AND INSTALL. CONTRACTOR SHALL PROVIDE ELECTRICAL AND PLUMBING CONNECTIONS WITHIN 5' OF THE BUILDING AND COORDINATE WITH SITE WORK AND INSTALLATION WITH OWNER.

PLANS FOR THE CITY OF DEER PARK
CITY OF DEER PARK
DEER PARK
CITY OF DEER PARK

THE CITY OF DEER PARK HAS REVIEWED THE SUBMITTED PLANS AND APPROVES THEM FOR CONSTRUCTION. THE CITY OF DEER PARK IS NOT RESPONSIBLE FOR THE DESIGN OR CONSTRUCTION OF THE PROJECT. THE CITY OF DEER PARK IS NOT RESPONSIBLE FOR THE DESIGN OR CONSTRUCTION OF THE PROJECT.

THE CITY OF DEER PARK HAS REVIEWED THE SUBMITTED PLANS AND APPROVES THEM FOR CONSTRUCTION. THE CITY OF DEER PARK IS NOT RESPONSIBLE FOR THE DESIGN OR CONSTRUCTION OF THE PROJECT. THE CITY OF DEER PARK IS NOT RESPONSIBLE FOR THE DESIGN OR CONSTRUCTION OF THE PROJECT.

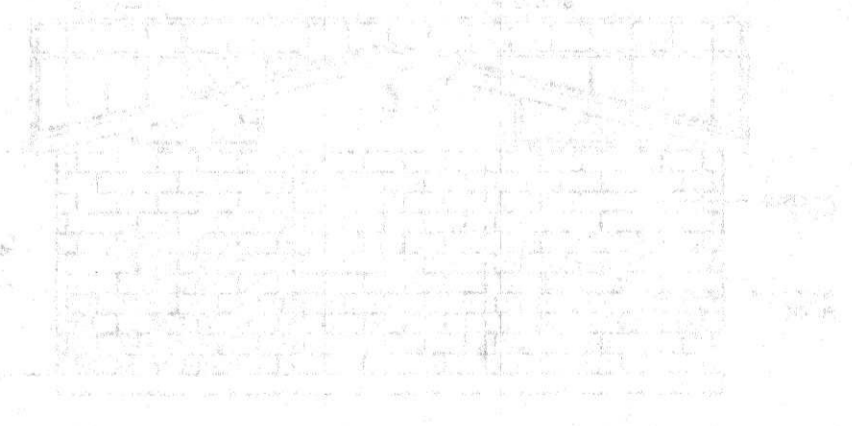
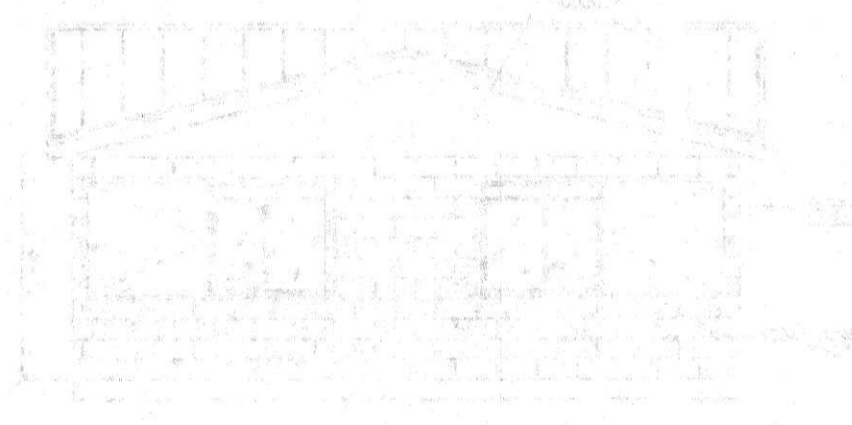
REVISIONS
NO. 1
NO. 2
NO. 3
NO. 4
NO. 5
NO. 6
NO. 7
NO. 8
NO. 9
NO. 10
NO. 11
NO. 12
NO. 13
NO. 14
NO. 15
NO. 16
NO. 17
NO. 18
NO. 19
NO. 20
NO. 21
NO. 22
NO. 23
NO. 24
NO. 25
NO. 26
NO. 27
NO. 28
NO. 29
NO. 30
NO. 31
NO. 32
NO. 33
NO. 34
NO. 35
NO. 36
NO. 37
NO. 38
NO. 39
NO. 40
NO. 41
NO. 42
NO. 43
NO. 44
NO. 45
NO. 46
NO. 47
NO. 48
NO. 49
NO. 50
NO. 51
NO. 52
NO. 53
NO. 54
NO. 55
NO. 56
NO. 57
NO. 58
NO. 59
NO. 60
NO. 61
NO. 62
NO. 63
NO. 64
NO. 65
NO. 66
NO. 67
NO. 68
NO. 69
NO. 70
NO. 71
NO. 72
NO. 73
NO. 74
NO. 75
NO. 76
NO. 77
NO. 78
NO. 79
NO. 80
NO. 81
NO. 82
NO. 83
NO. 84
NO. 85
NO. 86
NO. 87
NO. 88
NO. 89
NO. 90
NO. 91
NO. 92
NO. 93
NO. 94
NO. 95
NO. 96
NO. 97
NO. 98
NO. 99
NO. 100



ARCHITECTURAL
 APPROVED
 APPROVED AS NOTED
 DISAPPROVED
 REVISE & RESUBMIT
Signature
CITY OF DEER PARK
AUG 14 2017
DATE

City of Deer Park
DATE
AUG 11 2017
RECEIVED
Building Department

Permit # CB-00034-2017
GIRLS SOFTBALL RENOVATION PHASE I



CITY OF DEER PARK
Date Received
AUG 11 2017
ENGINEERING DEPARTMENT

APPROVED FOR CONSTRUCTION
THE CITY OF DEER PARK IS NOT RESPONSIBLE FOR THE DESIGN OR CONSTRUCTION OF THE PROJECT.