

TEXAS PARKS AND WILDLIFE DEPARTMENT

PROJECT NUMBER 51-00065

BOYS AND GIRLS CLUB RECREATION CENTER

CITY OF WESLACO, TEXAS



Alcocer Garcia Associates, inc.

1333 E. Jasmine Ave.
McAllen, Texas 78501
Office: 956.618.2007
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Web: WWW.AGADC.COM

TEXAS PARKS AND WILDLIFE
DEPARTMENT PROJECT NUMBER 51-00065
BOYS AND GIRLS CLUB
RECREATION CENTER
CITY OF WESLACO, TEXAS

1'-6"

WESLACO BOYS AND GIRLS RECREATION CENTER

A TEXAS LOCAL PARK GRANT PROGRAM
SPONSORED BY THE CITY OF WESLACO
WITH FUNDING ASSISTANCE THROUGH
TEXAS PARK AND WILDLIFE DEPARTMENT

CITY OFFICIALS

Miguel D. Wise, Mayor

John F. Cuellar, Mayor Pro-Team, District 2

David R. Fox, Commissioner, District 1

Olga M. Noriega, Commissioner, District 3

Gerardo "Jerry" Tafolla, Commissioner, District 4

Lupe V. Rivera, Commissioner, District 5

Joe A. Martinez, Commissioner, District 6

2013

CONTRACTOR: _____ ARCHITECT: _____

2'-0"

ALUMINUM PLAQUE

N.T.S. 1 REQ.

8'-0"

THE CITY OF WESLACO
BOYS AND GIRLS RECREATION CENTER PROJECT

WITH FUNDING ASSISTANCE THROUGH THE
LOCAL PARK GRANT PROGRAM
ADMINISTERED BY THE TEXAS PARKS AND WILDLIFE DEPARTMENT

FUNDING		
LOCAL PARK GRANT PROGRAM	50%	\$ _____
CITY OF WESLACO	50%	\$ _____
TOTAL PROJECT		\$ _____

SOURCE OF FUNDS-STATE _____

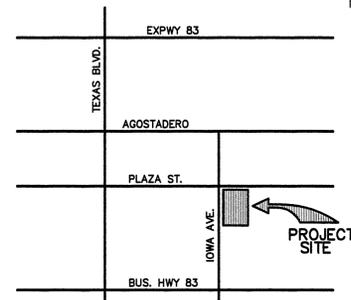
4X4 SUPPORT POST
12'-0" LONG

4'-0"

3'-0"

PROJECT SIGN

N.T.S. 1 REQ.



PROJECT LOCATION PLAN

N.T.S.

DRAWINGS INDEX

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P3	PLUMBING SCHEDULE AND DETAILS
P4	PLUMBING RISER SCHEMATIC DIAGRAM

CODE COMPLIANCE
2006 INTERNATIONAL BUILDING CODE
2012 TEXAS ACCESSIBILITY STANDARDS

THE USE OF THESE DRAWINGS IS RESTRICTED TO THE ORIGINAL PURPOSE FOR WHICH THEY WERE INTENDED. REPRODUCTION WITHOUT WRITTEN PERMISSION FROM THE OWNER IS PROHIBITED.



LICENSE EXPIRATION DATE: 8-31-13'

DATE: 2.12.13

DRAWN BY: ---

CHECKED BY: G.G.

FILE NAME: B&G CLUB

SHEET:

STRUCTURAL ENGINEER:
Hinojosa Engineering, Inc.

108 W. 18th ST.
Mission, TEXAS 78572
956.581.0143

MECHANICAL / ELECTRICAL / PLUMBING ENGINEER:
MEP Solutions Engineering

600 E. Beaumont Ave. Suite 2
McAllen, TEXAS 78501
956.664.2727

ARCHITECT:
Alcocer Garcia Associates, Inc.

1333 E. Jasmine Ave.
McAllen, TEXAS 78501
956.618.2007

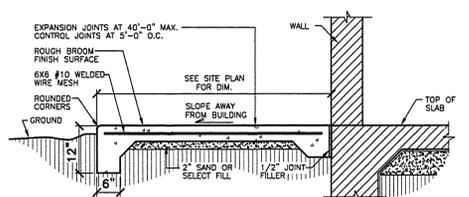
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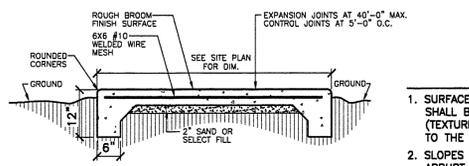


LICENSE EXPIRATION DATE: 8-31-13'

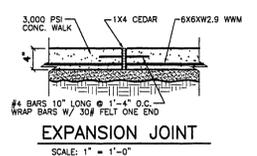
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DRAWN BY:
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FILE NAME:
SHEET:



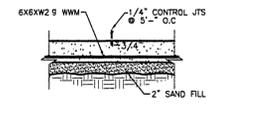
SIDEWALK DETAIL - 201
 SCALE: 3/4" = 1'-0"



SIDEWALK DETAIL - 202
 SCALE: 3/4" = 1'-0"



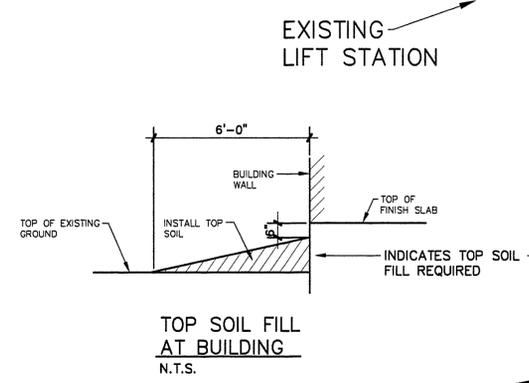
EXPANSION JOINT
 SCALE: 1" = 1'-0"



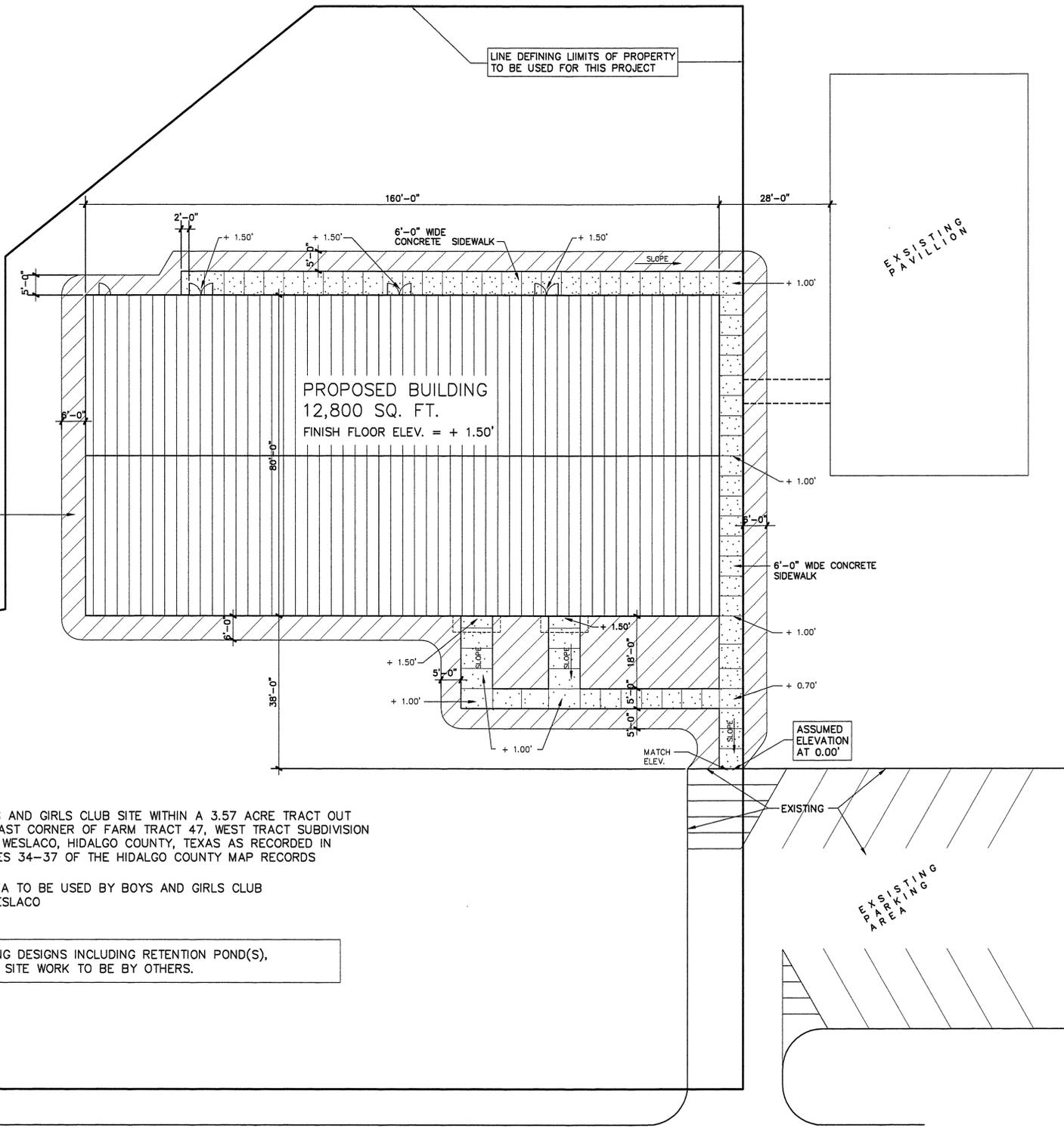
CONTROL JOINT
 SCALE: 1" = 1'-0"

GENERAL NOTES:

1. SURFACE TEXTURE OF WHEEL CHAIR RAMP SHALL BE OBTAINED BY HEAVY BROOMING (TEXTURE DEPTH .035 IN.) TRANSVERSE TO THE SLOPE OF THE RAMP.
2. SLOPES SHALL BE UNIFORM WITH NO ABRUPT CHANGES IN GRADES. NORMAL THROUGH THE AREA OF THE RAMP.
3. WHEELCHAIR RAMP SHALL BE MEASURED AND LAID AS CONC. SIDEWALK AND CONC. CURB & GUTTER AS APPLICABLE.
4. SIDEWALK CONCRETE SHALL HAVE A MIN. COMPRESSIVE STRENGTH OF 2800 P.S.I.
5. ALL CONCRETE WORK SHALL BE TREATED WITH MEMBRANE CURING COMPOUND.
6. SIDEWALK EXPANSION JOINTS SHALL BE AT EVERY 30'. SCORE JOINTS SHALL BE 1/4" IN. THICKNESS OF SIDEWALK AT EVERY 5'.
7. 6X6X10GA. WIRE MESH SHALL BE USED FOR REINFORCING.



TOP SOIL FILL AT BUILDING
 N.T.S.



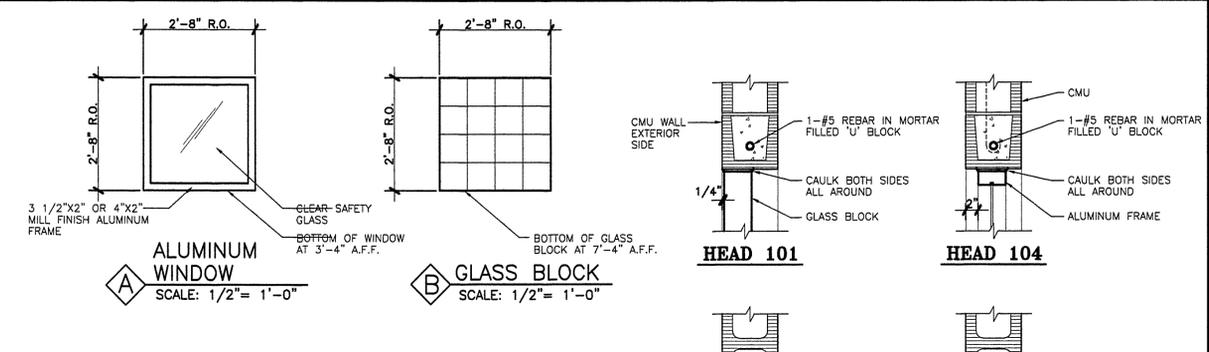
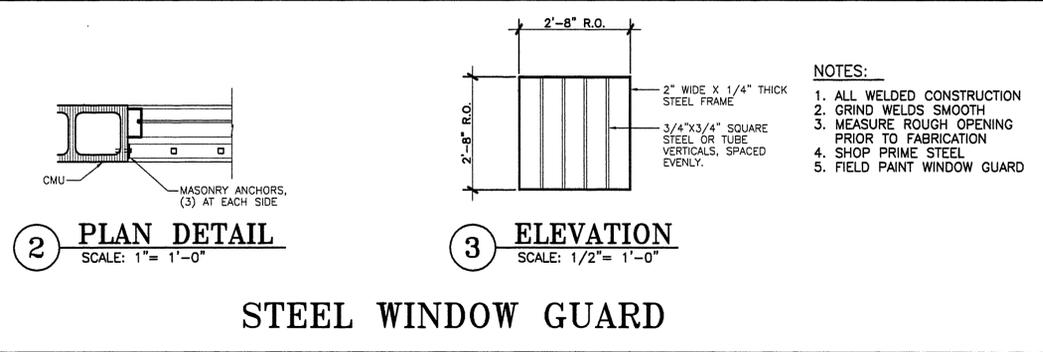
PLAZA STREET

IOWA AVENUE

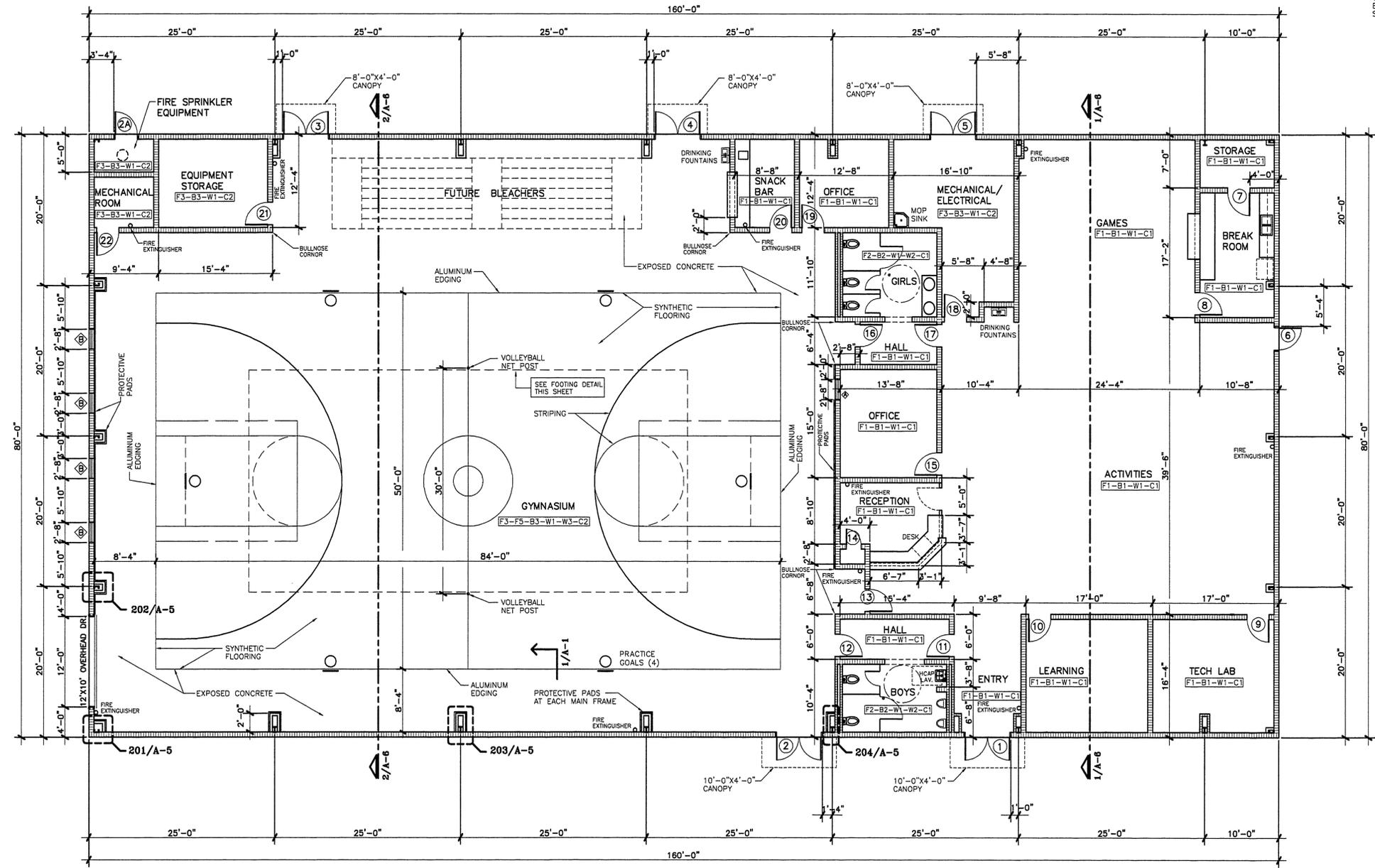
PROPOSED BOYS AND GIRLS CLUB SITE WITHIN A 3.57 ACRE TRACT OUT OF THE SOUTHEAST CORNER OF FARM TRACT 47, WEST TRACT SUBDIVISION IN THE CITY OF WESLACO, HIDALGO COUNTY, TEXAS AS RECORDED IN VOLUME 2, PAGES 34-37 OF THE HIDALGO COUNTY MAP RECORDS

1.358 ACRE AREA TO BE USED BY BOYS AND GIRLS CLUB AND CITY OF WESLACO

CIVIL ENGINEERING DESIGNS INCLUDING RETENTION POND(S), AND ALL OTHER SITE WORK TO BE BY OTHERS.



WINDOW FRAME AND GLASS BLOCK DETAILS
SCALE: 1" = 1'-0"



ROOM FINISH SCHEDULE

FLOOR

- F1 - V.C.T.
- F2 - 2"x2" CERAMIC TILE
- F3 - EXPOSED CONCRETE
- F4 - V.C.T. WITH INLAID STRIPING
- F5 - SYNTHETIC FLOORING

BASE

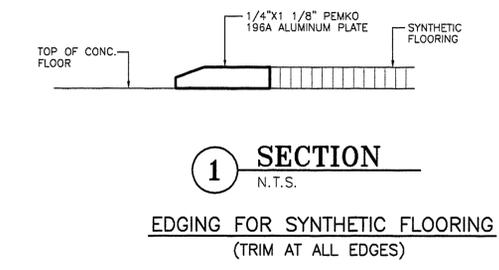
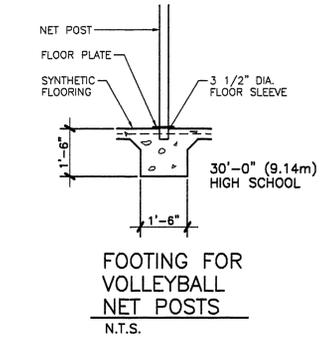
- B1 - 4" VINYL COVE
- B2 - 4"x4" CERAMIC TILE
- B3 - NONE

WALLS

- W1 - CMU, SEAL AND PAINT
- W2 - CERAMIC TILE TO 6'-6" A.F.F.
- W3 - EXPOSED STRUCTURE

CEILING

- C1 - 2X4 LAY-IN SUSPENDED ACOUSTICAL W/ INSULATION
- C2 - EXPOSED STRUCTURE



ALL EXTERIOR DOOR FRAMES TO BE PROVIDED / INSTALLED UNDER PRE-ENGINEERED METAL BUILDING MANUFACTURER / INSTALLER. EXTERIOR DOORS TO BE SUPPLIED / INSTALLED UNDER OTHER SECTIONS OF SPECIFICATIONS. REFER TO DOOR / FRAME SCHEDULE

FLOOR PLAN
SCALE: 1/8" = 1'-0"
BUILDING SIZE: 12,800 SQ. FT.

AGA
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LICENSE EXPIRATION DATE: 8-31-13

DATE:
DRAWN BY:
CHECKED BY:
FILE NAME:
SHEET:

A-1

BOYS & GIRLS CLUB RECREATION CENTER

WESLACO, TEXAS

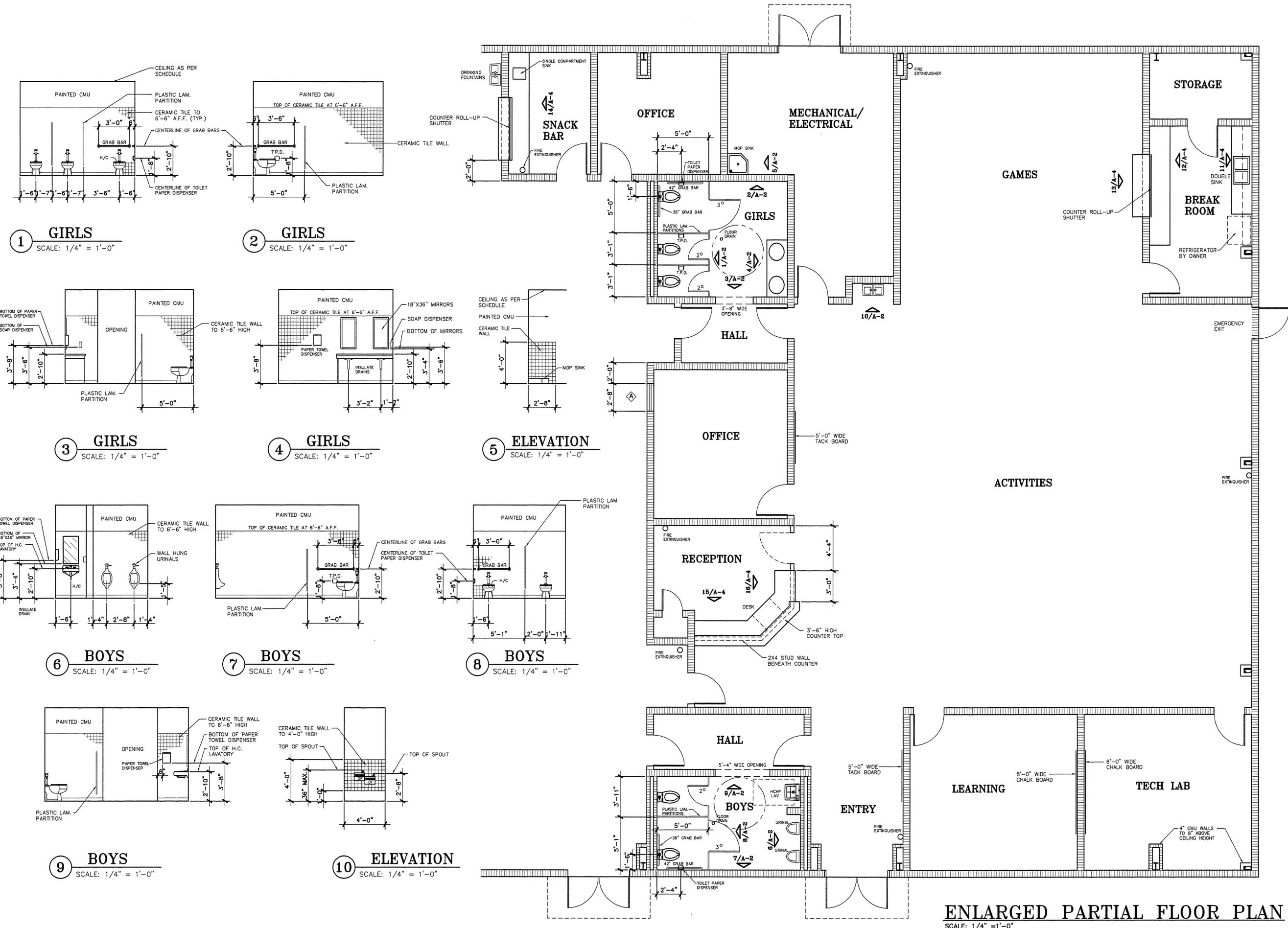
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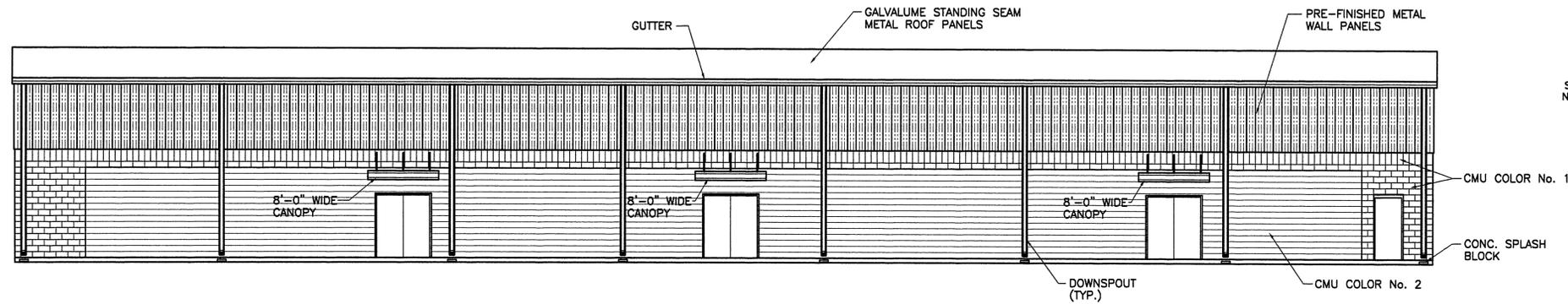


LICENSE EXPIRATION DATE: 8-31-13'

DATE:
DRAWN BY:
CHECKED BY:
FILE NAME:
SHEET:

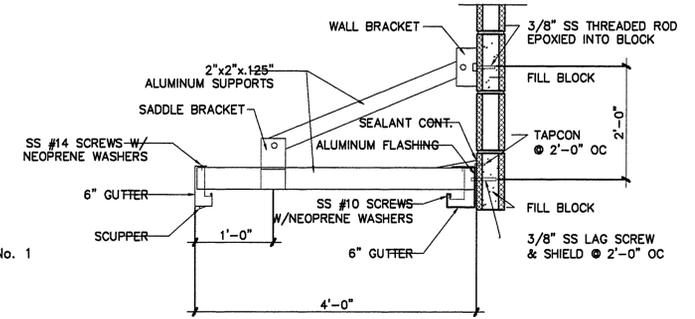


ENLARGED PARTIAL FLOOR PLAN
 SCALE: 1/4" = 1'-0"



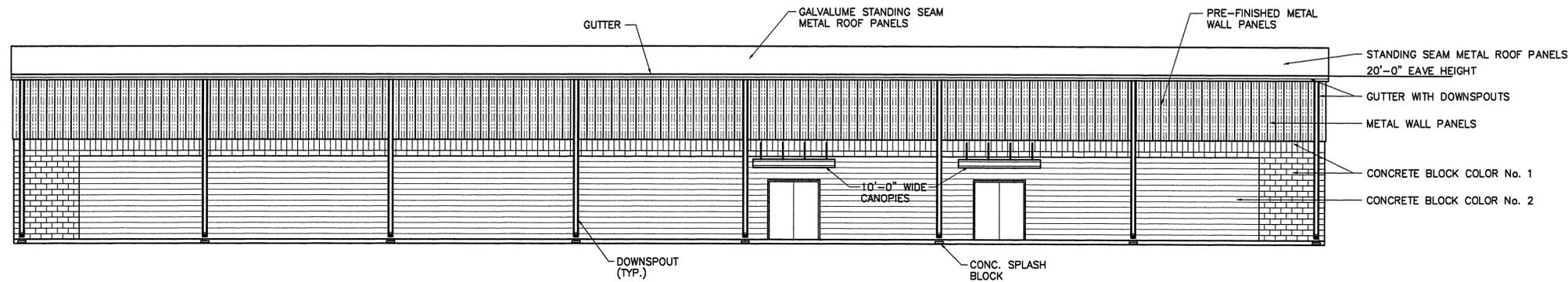
REAR (EAST SIDE) ELEVATION

SCALE: 1/8" = 1'-0"



SECTION THRU CANOPY

N.T.S.

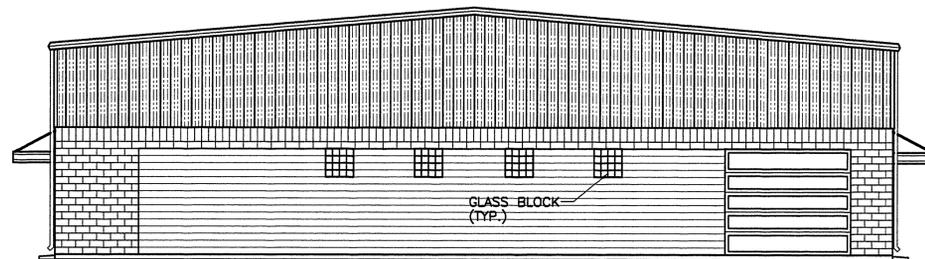


FRONT (WEST SIDE) ELEVATION

SCALE: 1/8" = 1'-0"

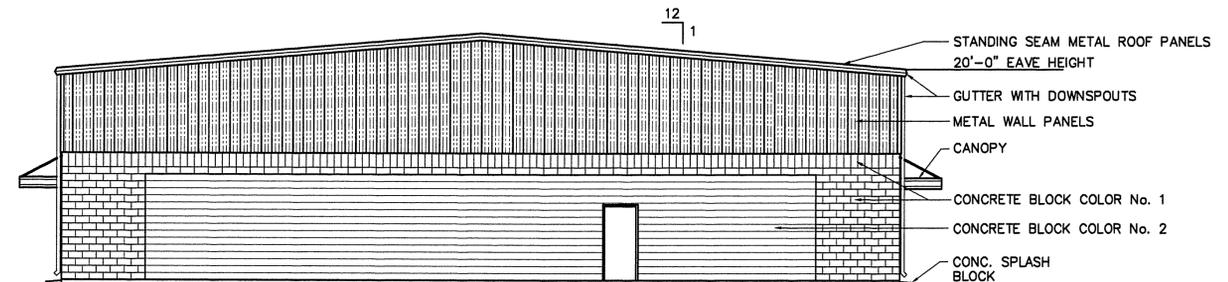
NOTES:

1. ALL EXTERIOR CMU WALLS: SMOOTH FACE 8" CMU WITH INTEGRAL COLOR
2. GUTTERS AND DOWNSPOUTS TO BE PRE-FINISHED



LEFT (NORTH SIDE) ELEVATION

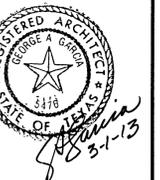
SCALE: 1/8" = 1'-0"



RIGHT (SOUTH SIDE) ELEVATION

SCALE: 1/8" = 1'-0"

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LICENSE EXPIRATION DATE: 8-31-13'

DATE:

DRAWN BY:

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FILE NAME:

SHEET:



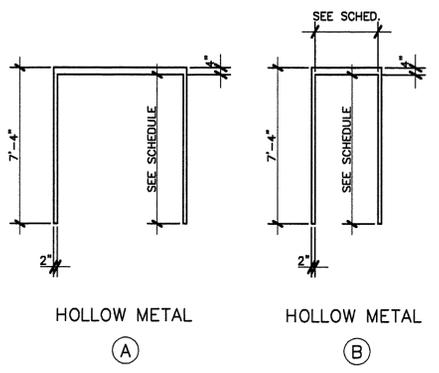
DOOR SCHEDULE

SEE HARDWARE SCHEDULE

DOOR MARK	DOOR SIZE	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	DOOR FRAME TYPE	DOOR FRAME MATERIAL	FRAME SIZE	DETAILS	HWDR. SET #	DOOR MARK
1	2-3070	2	HOLLOW METAL	P.&P.	A	H.M.	5-3/4" X 2"		1	1
2	2-3070	2	HOLLOW METAL	P.&P.	A	H.M.	5-3/4" X 2"		1	2
2A	3070	1	HOLLOW METAL	P.&P.	B	H.M.	5-3/4" X 2"		2	2A
3	2-3070	2	HOLLOW METAL	P.&P.	A	H.M.	5-3/4" X 2"		1	3
4	2-3070	2	HOLLOW METAL	P.&P.	A	H.M.	5-3/4" X 2"		1	4
5	2-3070	1	HOLLOW METAL	P.&P.	A	H.M.	5-3/4" X 2"		3	5
6	3070	1	HOLLOW METAL	P.&P.	B	H.M.	5-3/4" X 2"		4	6
7	3070	1	S.C. WOOD	S./V.	B	H.M.	5-3/4" X 2"		5	7
8	3070	1	S.C. WOOD	S./V.	B	H.M.	5-3/4" X 2"		6	8
9	3070	1	S.C. WOOD	S./V.	B	H.M.	5-3/4" X 2"		6	9
10	3070	1	S.C. WOOD	S./V.	B	H.M.	5-3/4" X 2"		6	10
11	3070	1	S.C. WOOD	S./V.	B	H.M.	5-3/4" X 2"		7	11
12	3070	1	S.C. WOOD	S./V.	B	H.M.	5-3/4" X 2"		7	12
13	3070	1	S.C. WOOD	S./V.	B	H.M.	5-3/4" X 2"		6	13
14	3070	1	S.C. WOOD	S./V.	B	H.M.	5-3/4" X 2"		5	14
15	3070	2	S.C. WOOD	S./V.	B	H.M.	5-3/4" X 2"		6	15
16	3070	1	S.C. WOOD	S./V.	B	H.M.	5-3/4" X 2"		7	16
17	3070	1	S.C. WOOD	S./V.	B	H.M.	5-3/4" X 2"		7	17
18	3070	1	S.C. WOOD	S./V.	B	H.M.	5-3/4" X 2"		5	18
19	3070	2	S.C. WOOD	S./V.	B	H.M.	5-3/4" X 2"		6	19
20	3070	1	S.C. WOOD	S./V.	B	H.M.	5-3/4" X 2"		6	20
21	3070	1	HOLLOW METAL	P.&P.	B	H.M.	5-3/4" X 2"		5	21
22	3070	1	HOLLOW METAL	P.&P.	B	H.M.	5-3/4" X 2"		5	22

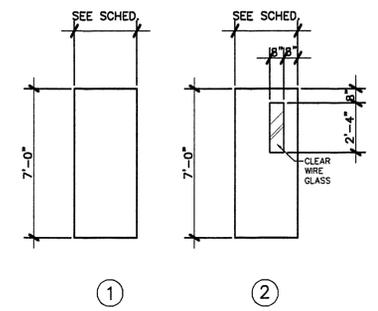
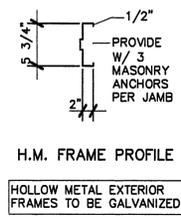
P. & P. = PRIME & PAINT S./V. = STAIN/VARNISH H.M. = HOLLOW METAL S.C.WD. = SOLID CORE WOOD

- NOTES:
 1. DOOR FRAMES: ALL HOLLOW METAL, 2"x5 3/4"
 2. CONTRACTOR TO COORDINATE DOOR HARDWARE, DOOR & DOOR FRAME PREPARATIONS REQUIRED ACCORDING TO APPROVED HARDWARE SCHEDULE



FRAME TYPES (H.M.)

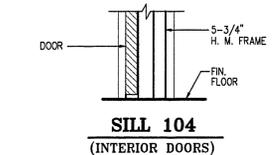
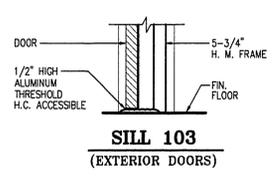
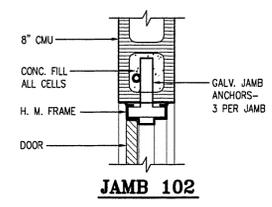
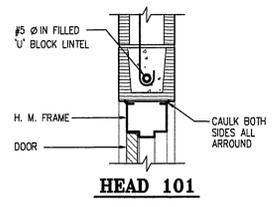
SCALE: 1/4" = 1'-0"



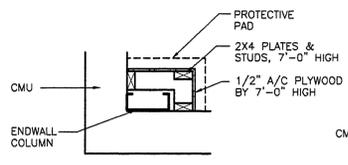
DOOR TYPES

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

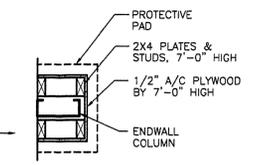
- NOTES:
 - DOORS TO BE PROVIDED WITH METAL GLAZING FRAME FOR GLASS (PRIMED) WHERE GLAZING REQUIRED.
 - HOLLOW METAL EXTERIOR DOORS TO BE GALVANIZED.



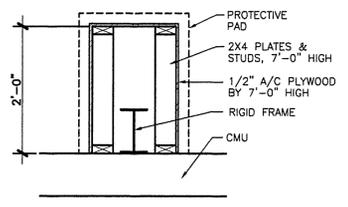
DOOR FRAME DETAIL
 (H.M. FRAME AT CMU WALLS)
 SCALE: 1" = 1'-0"



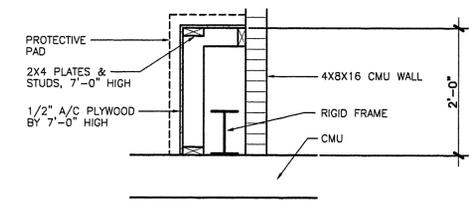
DETAIL-201
 TYPE-1 (1 COL.)
 SCALE: 3/4" = 1'-0"



DETAIL-202
 TYPE-2 (3 COL'S.)
 SCALE: 3/4" = 1'-0"



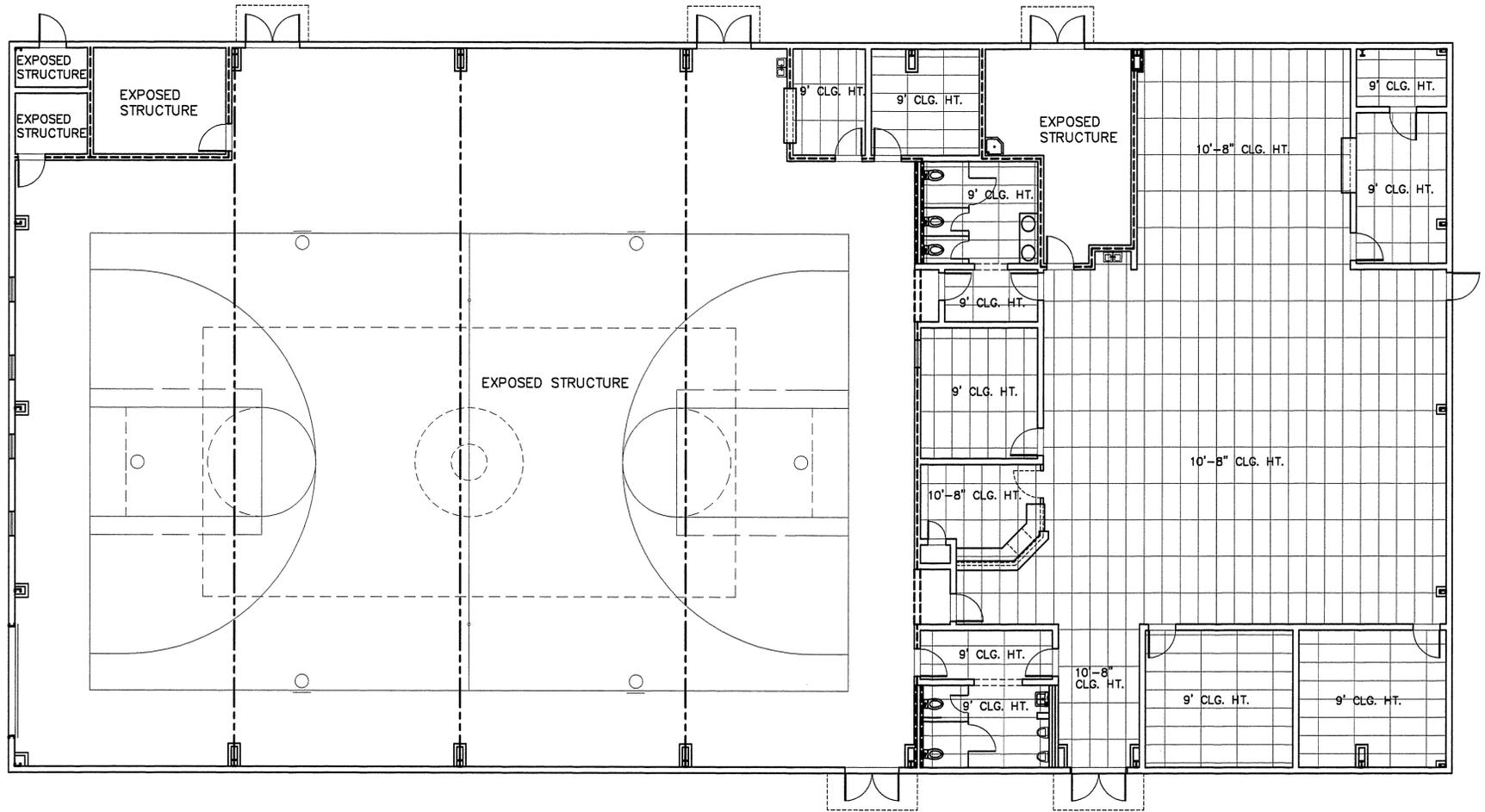
DETAIL-203
 TYPE-3 (3 COL'S.)
 SCALE: 3/4" = 1'-0"



DETAIL-204
 TYPE-4 (1 COL.)
 SCALE: 3/4" = 1'-0"

INDICATES CMU WALLS UP TO BOTTOM OF ROOF PANELS
 EXTERIOR CMU WALLS TO 12'-0" HIGH, OTHER CMU WALLS TO 8" ABOVE CEILING

WALL HEIGHT NOTES & REFLECTED CEILING PLAN
 SCALE: 1/8" = 1'-0"



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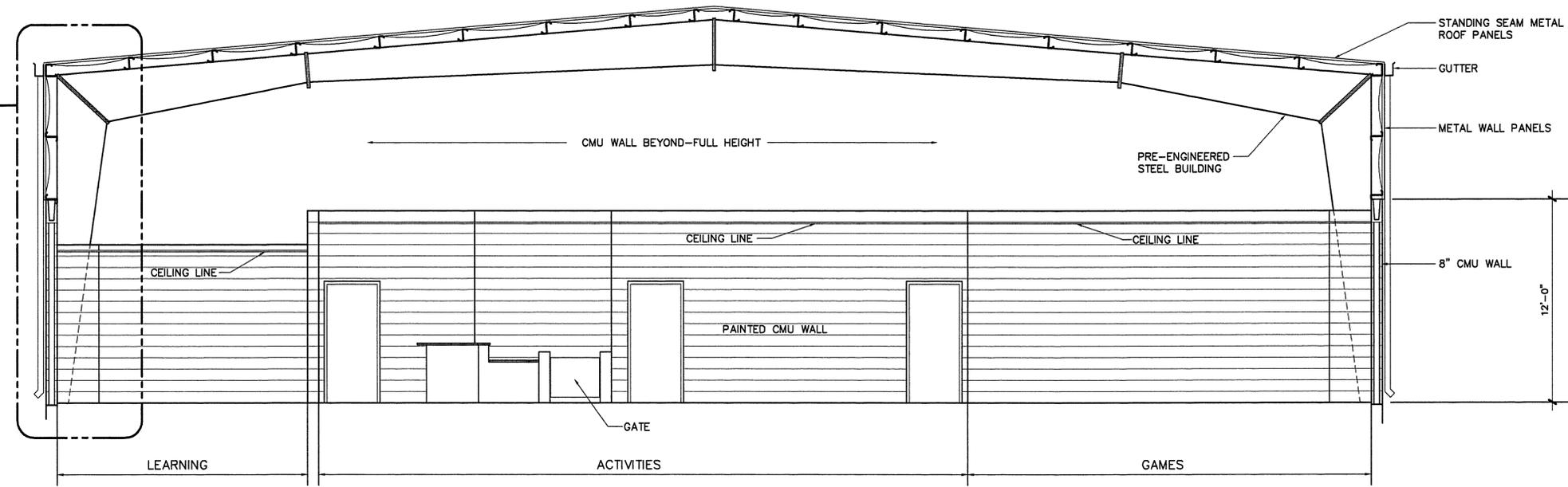
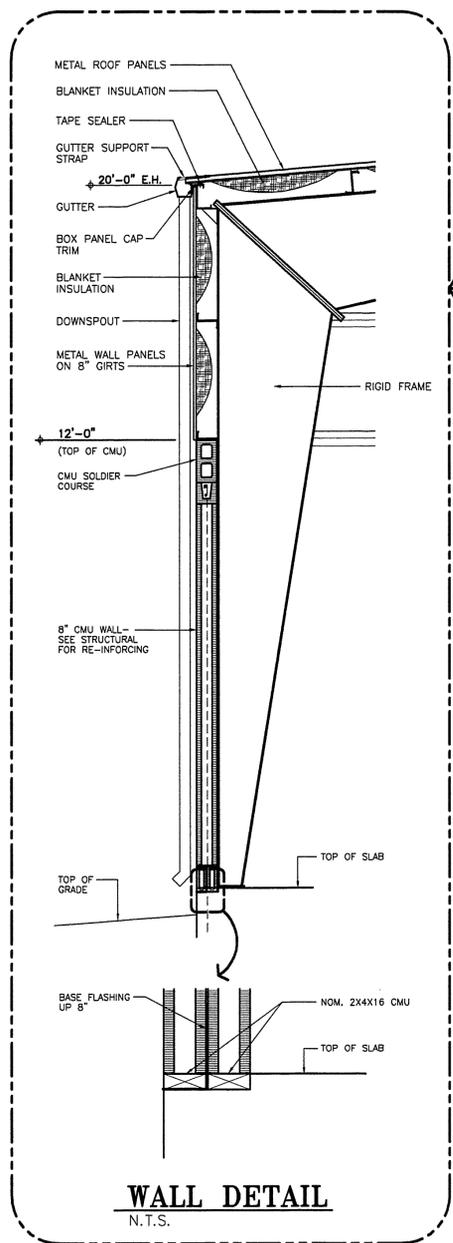
DATE: _____
 DRAWN BY: _____
 CHECKED BY: _____
 FILE NAME: _____
 SHEET: _____

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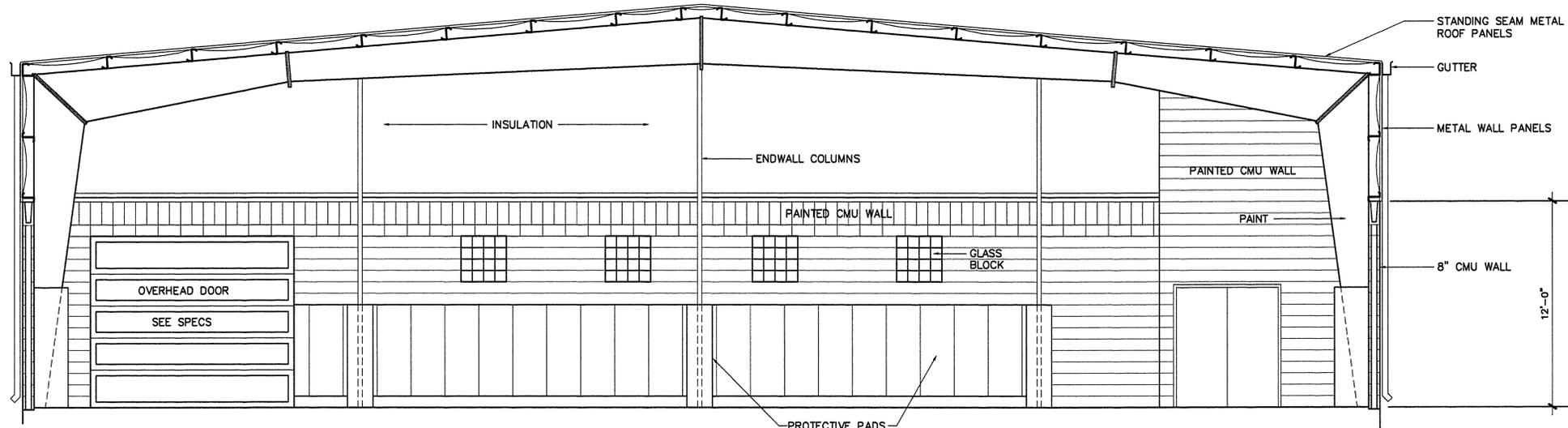
LICENSE EXPIRATION DATE: 8-31-13

DATE:
 DRAWN BY:
 CHECKED BY:
 FILE NAME:
 SHEET:



ALL EXTERIOR CMU WALLS:
 FILL ALL CELLS POSSIBLE WITH
 PERLITE LOOSE FILL INSULATION

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



PAINTING NOTE:
 ALL STEEL RIGID FRAMES AND
 ENDWALL COLUMNS TO BE
 PAINTED UP TO 12'-0" HIGH

SECTION-2
 SCALE: 1/4" = 1'-0"

GENERAL NOTES

CONTRACTOR TO REVIEW ALL GENERAL NOTES PRIOR TO SUBMITTING A BID.

GENERAL NOTES

- THESE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, UNLESS OTHERWISE INDICATED. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMEN, AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR EARTH BANKS, FORMS, SCAFFOLDING, PLANKING, SAFETY NETS, SUPPORT AND BRACING FOR CRANES, POLES, ETC. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. OBSERVATION VISITS OF THE SITE BY THE ARCHITECT OR THE ENGINEER DO NOT INCLUDE INSPECTION OF THE ABOVE AND BELOW ITEMS.
- ALL CONSTRUCTION AND QUALITY OF MATERIALS SHALL COMPLY WITH THE GOVERNING BUILDING CODES AND REGULATIONS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, TOLERANCES AND CONDITIONS AT THE JOB SITE BEFORE COMMENCEMENT OF WORK AND SHALL IMMEDIATELY REPORT ANY DISCREPANCIES TO WHICH THE ARCHITECT AND ENGINEER IN WRITING BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. ANY OMISSION OR CONFLICT BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.
- IN CASE OF CONFLICT, NOTES AND DETAILS ON THE BALANCE OF THE DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. DRAWINGS TAKE PRECEDENCE OVER SPECIFICATIONS.
- WHERE CONSTRUCTION DETAILS ARE NOT SPECIFICALLY SHOWN OR NOTED FOR ANY PART OF THE WORK, SUCH DETAILS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAILS SHOWN FOR SIMILAR CONDITIONS AND MATERIALS, WHERE SUFFICIENTLY SIMILAR WORK IS NOT SHOWN, THE ENGINEER SHALL BE CONSULTED FOR CLARIFICATION.
- EACH SUBCONTRACTOR IS CONSIDERED AN EXPERT IN HIS RESPECTIVE FIELD AND SHALL, PRIOR TO THE SUBMISSION OF A BID OR PERFORMANCE OF WORK, NOTIFY THE GENERAL CONTRACTOR, ARCHITECT, ENGINEER OR OWNER, IN WRITING OF ANY WORK CALLED OUT ON THE DRAWINGS IN HIS TRADE THAT CANNOT BE GUARANTEED OR PERFORMED AS INDICATED.
- THE CONTRACTOR SHALL COORDINATE ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AS TO WEIGHTS AND EXACT LOCATIONS, WITH STRUCTURAL SUPPORTS. IN THE EVENT THAT THE PURCHASED EQUIPMENT DEVIATES IN WEIGHT AND LOCATION FROM THOSE INDICATED ON THE PLANS, THE ARCHITECT AND ENGINEER MUST BE NOTIFIED AND APPROVAL OBTAINED PRIOR TO INSTALLATION.
- THIS STRUCTURE IS DESIGNED AS A STABLE UNIT AFTER ALL COMPONENTS ARE IN PLACE. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY BRACING AS REQUIRED TO INSURE THE VERTICAL STABILITY OF THE ENTIRE STRUCTURE, OR ANY PORTION THEREOF, DURING CONSTRUCTION.
- NEITHER THE OWNER NOR THE ARCHITECT NOR THE ENGINEER WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING AND BRACING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.
- TRADE NAMES AND MANUFACTURERS REFERRED TO ARE FOR QUALITY STANDARDS ONLY. SUBSTITUTIONS WILL BE APPROVED AS APPROVED BY THE ENGINEER.
- ANY OPTIONS OR APPROVED SUBSTITUTIONS ARE FOR CONTRACTORS CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHANGES, ADDITIONAL COSTS INCLUDING REDISIGN BY THE ENGINEER, AND COORDINATION WITH ALL ITEMS THAT THE SUBSTITUTIONS MAY IMPACT.
- THE ARCHITECT AND ENGINEER ARE TO BE NOTIFIED IN WRITING WHEN CONSTRUCTION AT THE SITE BEGINS.
- ANY QUESTIONS RELATED TO INTERPRETATION OR INTENT OF THESE DRAWINGS SHALL BE REFERRED TO THE ENGINEER.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO LOCATE AND PROTECT ANY UNDERGROUND OR CONCEALED CONDUIT, PLUMBING, OR OTHER UTILITIES PRIOR TO BEGINNING ANY WORK.
- PIPES, DUCTS, SLEEVES, CHASES, ETC. SHALL NOT BE PLACED IN BEAMS OR WALLS UNLESS SPECIFICALLY SHOWN ON THE DRAWINGS. ANY STRUCTURAL MEMBER BEING CUT FOR PIPES, DUCTS, ETC. UNLESS NOTED CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR INSTALLATION OF ANY ADDITIONAL PIPES, DUCTS, ETC.

DESIGN CRITERIA

- DESIGN LOADS, STRUCTURAL ANALYSIS AND PREPARATIONS OF STRUCTURAL MEMBERS ARE BASED UPON THE FOLLOWING CRITERIA:
- CODE: IBC 2006
 - LATERAL LOADS:
 - WIND SPEED (V_3): 110 MPH
 - EXPOSURE CATEGORY: C
 - IMPORTANCE FACTOR: 1.15
 - CHEMICAL CATEGORY: D
 - SEISMIC DESIGN CATEGORY: A
 - SEISMIC CLASS: D
 - VERTICAL LOADS:

ROOF: SELF WEIGHT

DEAD LOAD: PRE-ENGINEERED

LIVE LOAD: (REDUCIBLE)

WIND UPLIFT LOAD (NET): PER METAL BLDG MANUF.

GROUND SNOW LOAD: 0 PSF

CHEMICAL: 0 PSF

CRANE LOADS: NONE

MECHANICAL UNITS: SEE PLANS

METAL BUILDING SYSTEM: H240

COLLATERAL LOAD: H240

BUILDING WITH MASONRY VENEER: H240

GIRT DECK: H240

METAL SIDING: H240

WIND UPLIFT: H240
 - SUBSURFACE INFORMATION:

A. PREPARED BY: EARTH CO, LLC

PROJECT NO.: G-1255033

DATE: NOVEMBER 17, 2012

B. SHALLOW FOUNDATION:

MINIMUM FOOTING DEPTH BELOW F.G.E.: 24 INCHES

MINIMUM FOOTING WIDTH: 12 INCHES

ALLOWABLE BEARING PRESSURE (CONTINUOUS FOOTINGS): 2,000 PSF

ALLOWABLE BEARING PRESSURE (ISOLATED FOOTINGS): 2,000 PSF

WIND RESISTANCE INSTITUTE (WRI) CRITERIA:

EFFECTIVE PLASTICITY INDEX: 28

CLIMATIC RATING CW: 15

SOIL SUPPORT INDEX (C): 0.9

PVR: 1.5 INCHES

FOR PROPOSED CONDITIONS:

EFFECTIVE PLASTICITY INDEX: 20

CLIMATIC RATING CW: 15

SOIL SUPPORT INDEX (C): 0.9

PVR: <1 INCH

GENERAL NOTES FOR STRUCTURAL OBSERVATIONS

- JOB SITE OBSERVATIONS BY THE PROFESSIONAL ENGINEER OR HIS AUTHORIZED REPRESENTATIVE SHALL CONSIST OF VISUAL OBSERVATION OF MATERIALS, EQUIPMENT OR CONSTRUCTION WORK FOR THE PURPOSE OF ASCERTAINING THAT THE WORK IS IN SUBSTANTIAL CONFORMANCE WITH THE CONTRACT DOCUMENTS AND WITH THE INTENT.
 - SUCH OBSERVATIONS SHALL NOT BE RELIED UPON BY OTHERS AS ACCEPTANCE OF THE WORK, NOR SHALL IT BE CONSTRUED TO RELIEVE THE CONTRACTOR IN ANY WAY FROM HIS OBLIGATIONS AND RESPONSIBILITIES UNDER THE CONSTRUCTION CONTRACT.
 - SPECIFICALLY BUT WITHOUT LIMITATION, OBSERVATIONS BY THE DESIGN PROFESSIONAL SHALL NOT REQUIRE THE DESIGN PROFESSIONAL TO ASSUME RESPONSIBILITY FOR THE MEANS OR METHOD OR TO REDUCE THE POTENTIAL CAUSES AND NUMBER OF SUCH CRACKS. IT IS NOT PRACTICAL TO PROVIDE TOTAL ARTICULATION BETWEEN THE FLOOR SYSTEM AND ITS SUBSTRUCTURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUCH CRACKS. MOST SUCH CRACKS DEVELOP OVER THE FIRST THREE YEARS OF THE LIFE OF THE FLOOR SYSTEM. CRACKS WHICH ARE WIDER THAN 0.01 INCH MAY NEED TO BE PRESSURE POINTED. REFER TO NOTES REGARDING POINTING.
 - THE OBJECT OF THE JOINTS PROVIDED IS TO ALLOW MOVEMENT, MOVEMENTS DUE TO COMPRESSIVE AND TENSILE LOADS, AND MOVEMENTS DUE TO THERMAL EXPANSION AND CONTRACTION. BOND WIRE MOVEMENTS DUE TO VARIATIONS IN TEMPERATURE WILL PERSEIST.
- | CONSTRUCTION STAGE | REQUIRED |
|---|----------|
| BEFORE PLACEMENT OF CONCRETE FOR SUBFOUNDATION | X |
| BEFORE PLACEMENT OF FOUR (4) FEET OF GROUT IN CMU & BMU WALL | X |
| AFTER FRAMING OF ROOF STRUCTURE BUT BEFORE PLACEMENT OF ROOFING MATERIAL. | X |

SPECIAL NOTES TO OWNER

- UNDER NORMAL CONDITIONS, AND FOR CONVENTIONAL BUILDINGS SUCH AS THE SUBJECT MATERIAL, REINFORCED CONCRETE AND MASONRY DEVELOP CRACKS. THE CRACKS ARE DUE TO INHERENT SHRINKAGE OF CONCRETE, CREEP AND RESTRAINING EFFECTS OF VERTICAL AND OTHER STRUCTURAL ELEMENTS TO WHICH ARE APPLIED TENSION IN THE BODY.
- THE CRACKS FORMED ARE NORMALLY COSMETIC. THE SLAB MAINTAINS ITS SERVICEABILITY AND STRENGTH REQUIREMENTS. IT IS EMPHASIZED THAT ALTHOUGH SPECIAL EFFORT IS MADE TO REDUCE THE POTENTIAL CAUSES AND NUMBER OF SUCH CRACKS, IT IS NOT PRACTICAL TO PROVIDE TOTAL ARTICULATION BETWEEN THE FLOOR SYSTEM AND ITS SUBSTRUCTURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUCH CRACKS. MOST SUCH CRACKS DEVELOP OVER THE FIRST THREE YEARS OF THE LIFE OF THE FLOOR SYSTEM. CRACKS WHICH ARE WIDER THAN 0.01 INCH MAY NEED TO BE PRESSURE POINTED. REFER TO NOTES REGARDING POINTING.
- THE OBJECT OF THE JOINTS PROVIDED IS TO ALLOW MOVEMENT, MOVEMENTS DUE TO COMPRESSIVE AND TENSILE LOADS, AND MOVEMENTS DUE TO THERMAL EXPANSION AND CONTRACTION. BOND WIRE MOVEMENTS DUE TO VARIATIONS IN TEMPERATURE WILL PERSEIST.

REINFORCING STEEL

- BAR REINFORCING SHALL CONFORM TO THE FOLLOWING GRADES OF ASTM A615, INCLUDING SUPPLEMENT S1, GRADE 40 & #3 AND SMALLER, GRADE 60 & #4 AND LARGER.
- DETAILS OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH CHAPTER 7 OF THE AMERICAN CONCRETE INSTITUTE (ACI) 318, UNLESS OTHERWISE NOTED.
- VERTICAL REINFORCEMENT SHALL BE TIED AND FIXED IN POSITION AT THE TOP AND BOTTOM AND AT INTERMEDIATE LOCATIONS, SPACED NOT GREATER THAN 48 INCHES O.C.
- WELDED STEEL WIRE FABRIC REINFORCEMENT SHALL CONFORM TO ASTM A185
- LAPS OF WELDED STEEL WIRE FABRIC AT SPLICES SHALL BE NOT LESS THAN 12 INCHES.
- WALLS, PILASTERS, COLUMNS SHALL BE DOVetailed TO THE SUPPORTING FOOTINGS WITH REINFORCEMENT OF THE SAME SIZE, GRADE AND AT THE SAME SPACING AS THE VERTICAL REINFORCEMENT IN THE WALLS, PILASTERS, OR COLUMNS.
- BAR SUPPORTS SHALL BE PROVIDED IN ACCORDANCE WITH THE PROVISIONS OF BAR SUPPORT SPECIFICATIONS AS CONTAINED IN THE LATEST EDITION OF THE "MANUAL OF STANDARD PRACTICE" BY THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI), EXCEPT AT SLABS; THE REINFORCING SHALL BE SUPPORTED BY CHAIRS SPACED AT 36 INCHES O.C. FOR #3 REBARS AND 48 INCHES ON CENTER FOR LARGER REBARS. CHAIRS FOR #3 REBAR SHALL BE CONCRETE BLOCKS.
- REINFORCING STEEL DETAILING, BENDING AND PLACING SHALL BE IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE", LATEST EDITION.
- ALL REINFORCEMENT SHALL BE SECURELY TIED IN PLACE BEFORE PLACING CONCRETE OR GROUT.
- PROVIDE CORNER BARS TOP AND BOTTOM AT ALL BEAM CORNERS AND DEAD END BEAM INTERSECTIONS. BARS TO EQUAL SIZE AND QUANTITY OF THE NOTED BEAM STEEL. BARS SHALL LAP BEAM REINFORCEMENTS.
- REBARS DETAILED AS CONTINUOUS SHALL BE LAPPED AT SPLICES.
- EXTEND THE SLAB REINFORCING STEEL PERPENDICULAR TO BEAM, TO THE TOP OUTSIDE REINFORCING BAR OF PERIMETER BEAMS. START THE SLAB REINFORCING STEEL, PARALLEL TO BEAM, NOT MORE THAN 6" FROM THE TOP INSIDE REINFORCING BAR OF PERIMETER BEAMS.
- PROVIDE #4 12" BARS AT 12" ON CENTER WHERE THE SLAB STEPS DOWN MORE THAN 3". THE 12" BARS SHALL LAP THE MAIN SLAB REINFORCING STEEL.
- ALL CONDUIT OR PLUMBING LINES IN SLAB SHALL BE PLACED BELOW SLAB THICKNESS AREA.
- WELDING OF CROSSING BARS SHALL BE IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE", LATEST EDITION.
- WELDING OF REINFORCING STEEL IS NOT PERMITTED.
- FOR EACH BAR, THE CONTRACTOR SHALL SUBMIT REINFORCING STEEL SHOP DRAWINGS FOR REVIEW BEFORE FABRICATION AND INSTALLATION.
- LAPS AT BAR SPLICES, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:

MASONRY - GRADE 60 LAP 90 DIA. (90" MIN.)	GRADE 40 LAP 48 DIA. (48" MIN.)
BAR SIZE	BAR SIZE
#3	#3
#4	#4
#5	#5
#6	#6
#7	#7
#8	#8
#9	#9

EXPOSURE CONDITION	MINIMUM COVER	TOLERANCE
DRILLED PIERS, FOOTINGS AND OTHER PRINCIPAL STRUCTURAL MEMBERS IN WHICH CONCRETE IS CAST IN PLACE AND EXPOSED TO WEATHER OR GROUND.	3"	3/8"
FOR BARS 5/8" IN DIAMETER	2"	1/4"
FOR BARS 3/4" OR LESS IN DIAMETER	1 1/2"	1/4"
WHERE SURFACES ARE NOT DIRECTLY EXPOSED TO WEATHER OR GROUND.		
FOR SLAB ON GRADE (FROM TOP OF SLAB)	1 1/2"	1/4"
FOR BEAMS, COLUMNS	1 1/2"	1/4"
FOR JOISTS AND SLABS	1"	1/8"

STRUCTURAL STEEL

- MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE LATEST EDITION OF THE AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
- STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING ASTM DESIGNATIONS:

MATERIAL	DESIGNATION	STRENGTH
ANCHOR RODS	F1554	Fy=36 ksi
PLATES	A36	Fy=36 ksi
ANGLES	A36	Fy=36 ksi
CHANNELS	A36	Fy=36 ksi
WIDE FLANGE SHAPES	A992	Fy=50 ksi
FLAT BAR	A36	Fy=36 ksi
SQUARE & RECT. STEEL TUBES (HSS)	A500 GRADE B	Fy=42 ksi
ROUND TUBES (HSS)	A500 GRADE B	Fy=42 ksi
- ALL STRUCTURAL STEEL SHALL BE FABRICATED, ERECTED, AND PAINTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AS AMENDED TO DATE AND THE CODE OF STANDARD PRACTICE, LATEST EDITION AS ADOPTED BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AMENDED AS FOLLOWS:
 - SECTION 4.2.1, DELETE FIRST TWO SENTENCES.
 - SECTION 7.1.1, ALL REFERENCE TO OWNER SHALL BE CHANGED TO GENERAL CONTRACTOR.
 - SECTION 7.3.3, THE CONTRACTOR SHALL PROVIDE THE SEQUENCE AND SCHEDULE OF PLACEMENT OF NON-SHEAR CONNECTIONS.
 - SECTION 7.5.1, ALL REFERENCE TO OWNER SHALL BE CHANGED TO GENERAL CONTRACTOR.
 - SECTION 7.3.3, THE CONTRACTOR SHALL PROVIDE THE SEQUENCE AND SCHEDULE OF PLACEMENT OF NON-SHEAR CONNECTIONS.
 - SECTION 7.5.1, ALL REFERENCE TO OWNER SHALL BE CHANGED TO GENERAL CONTRACTOR.
 - SECTION 7.3.3, THE CONTRACTOR SHALL PROVIDE THE SEQUENCE AND SCHEDULE OF PLACEMENT OF NON-SHEAR CONNECTIONS.
 - SECTION 7.5.1, ALL REFERENCE TO OWNER SHALL BE CHANGED TO GENERAL CONTRACTOR.
- WELDING SHALL BE DONE IN ACCORDANCE WITH THE STANDARD CODE FOR ARC AND GAS METAL ARC WELDING PROCESSES AS PUBLISHED BY THE AMERICAN WELDING SOCIETY, INC. EXCEPT THAT ALL WELDING SHALL BE DONE BY THE ELECTRIC ARC PROCESS. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS AND SHALL CONFORM TO ANSII/A3.11.1. THE CONTRACTOR SHALL PROVIDE THE SEQUENCE AND SCHEDULE OF PLACEMENT OF NON-SHEAR CONNECTIONS.
- ALL BOLTED CONNECTIONS SHALL BE MADE USING 1/4" FILLET WELD, U.N.O.
- ALL BOLTED CONNECTIONS SHALL BE MADE USING 3/4" DIAMETER HIGH STRENGTH BOLTS, ASTM A503, BEARING TYPE CONNECTION WITH WASHERS ASTM F438, U.N.O. ON DESIGN DRAWINGS. SPECIAL INSPECTION REQUIRED FOR ALL HIGH STRENGTH BOLTING. ALL NUTS SHALL BE PER ASTM A563.
- ALL CONNECTION PLATES AND STIFFENERS SHALL BE MADE WITH 1/4" THICK PLATES, UNLESS OTHERWISE NOTED ON PLANS.
- ALL STEEL (INCLUDING BOLTS) EXPOSED TO THE WEATHER SHALL BE HOT DIPPED GALVANIZED.
- ALL STEEL THAT IS ONLY USED FOR FABRICATION AND ERECTION OF STRUCTURAL STEEL PLANS IF STRUCTURE REQUIREMENTS ARE REQUIRED.
- ALL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE STANDARD CODE FOR ARC AND GAS METAL ARC WELDING PROCESSES AS PUBLISHED BY THE AMERICAN WELDING SOCIETY, INC. EXCEPT THAT ALL WELDING SHALL BE DONE BY THE ELECTRIC ARC PROCESS. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS AND SHALL CONFORM TO ANSII/A3.11.1.
- CONNECTIONS SHALL BE MADE AS PER THE FOLLOWING CONNECTIONS CONNECTION MANUAL BY AISC 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.
- STEEL SHOP SHALL BE AISC CERTIFIED.
- ALL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE STANDARD CODE FOR ARC AND GAS METAL ARC WELDING PROCESSES AS PUBLISHED BY THE AMERICAN WELDING SOCIETY, INC. EXCEPT THAT ALL WELDING SHALL BE DONE BY THE ELECTRIC ARC PROCESS. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS AND SHALL CONFORM TO ANSII/A3.11.1.
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Alcázar García Associates, Inc.
 1333 E. Jasmine Ave.
 McAllen, Texas 78501
 Office: 956.618.2007
 Fax: 956.618.2008
 Web: WWW.AGADC.COM

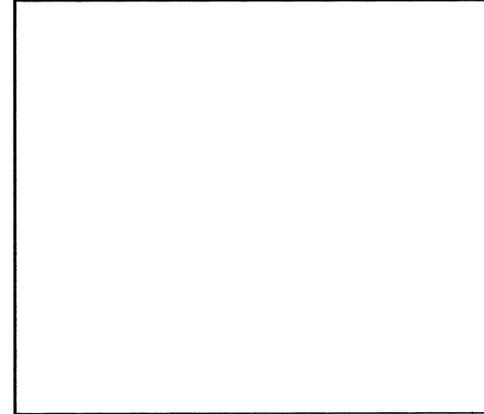
BOYS & GIRLS CLUB RECREATION CENTER
 WESLACO, TEXAS
 TEXAS PARKS AND WILDLIFE DEPARTMENT
 LOCAL PARK GRANT PROGRAM
 PROJECT NUMBER: 51-000065

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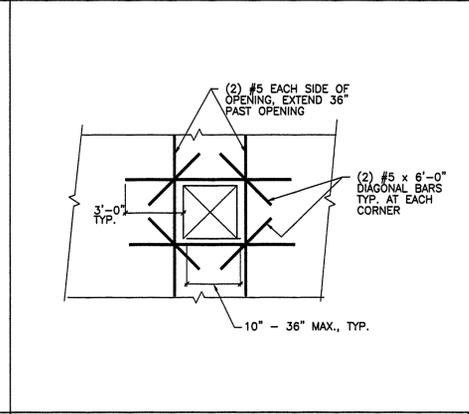


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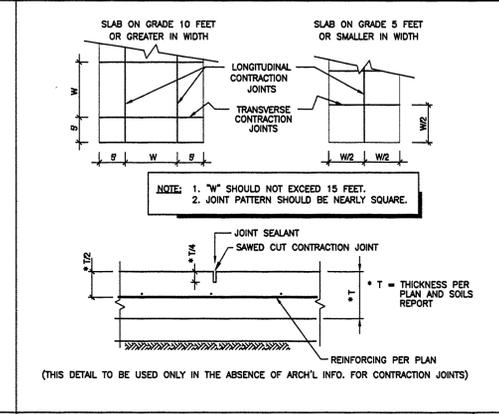
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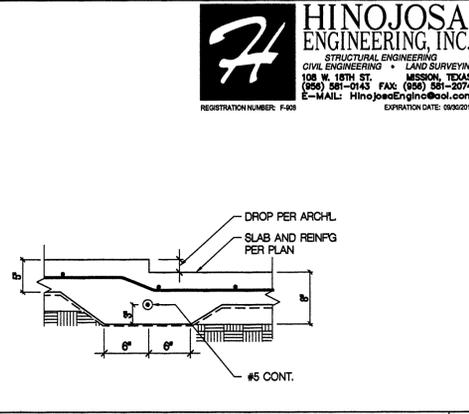
17 FOOTING AT STEEL COLUMN



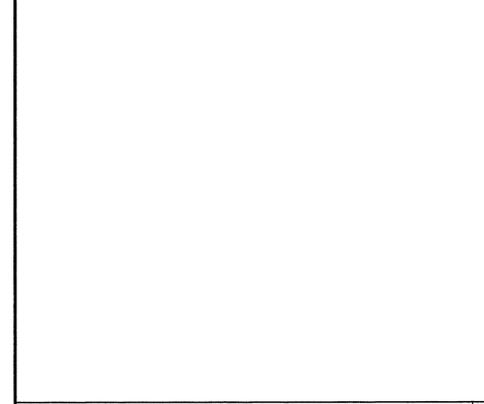
13 REINFORCING AT CONCRETE OPENINGS



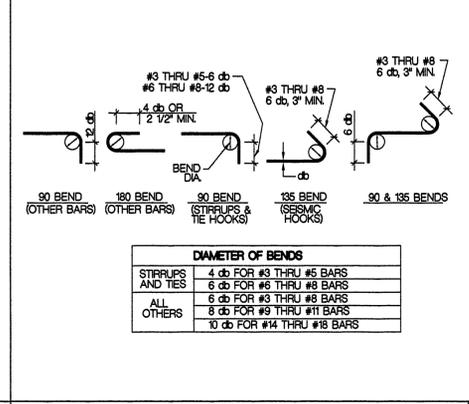
9 SLAB CONTRACTION JOINT



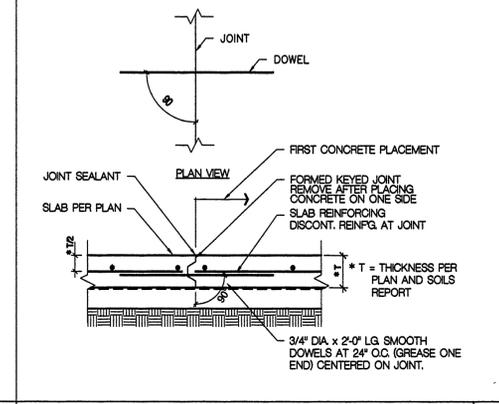
5 TYPICAL DROP AT SLAB ON GRADE



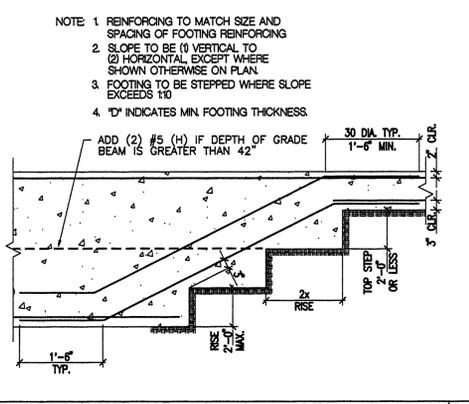
18 TYPICAL BASE PLATE DETAIL



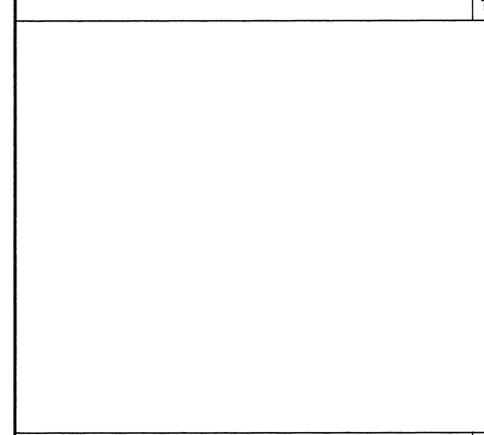
14 STANDARD HOOKS



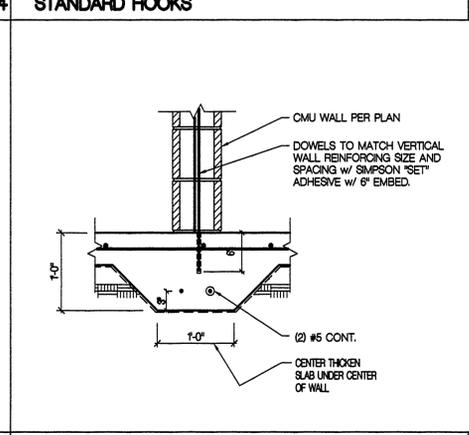
10 SLAB CONSTRUCTION JOINT



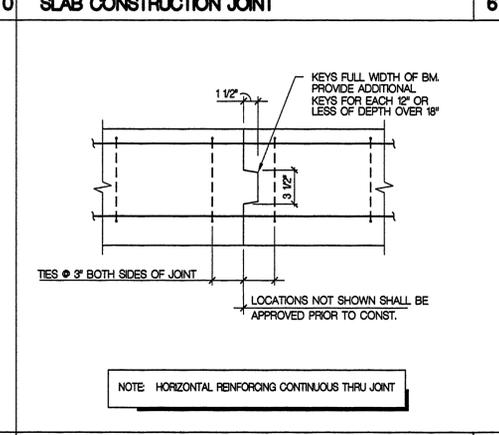
6 TYPICAL STEPPED WALL FOOTING



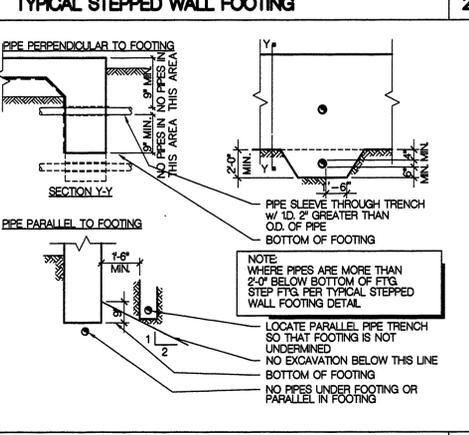
19 TYPICAL STEEL BEAM CONNECTION SCHEDULE



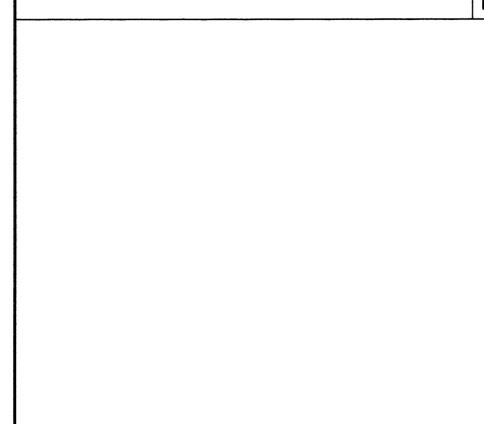
15 TYP. THICKENED SLAB AT NON BEARING CMU WALL



11 GRADE BEAM CONSTRUCTION JOINT



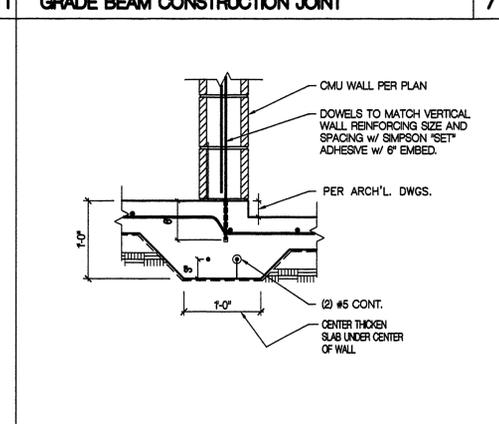
7 TYPICAL PIPING AT FOOTING



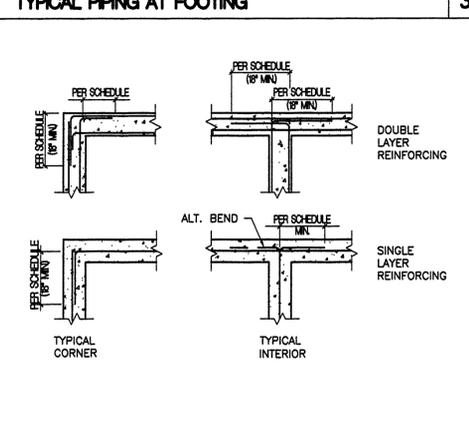
20 TYPICAL BEAM TO BEAM CONNECTION



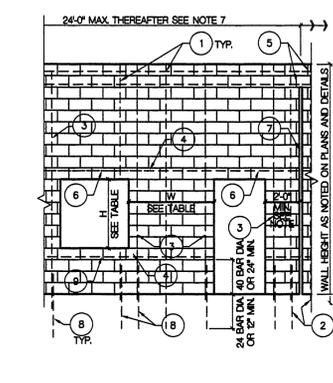
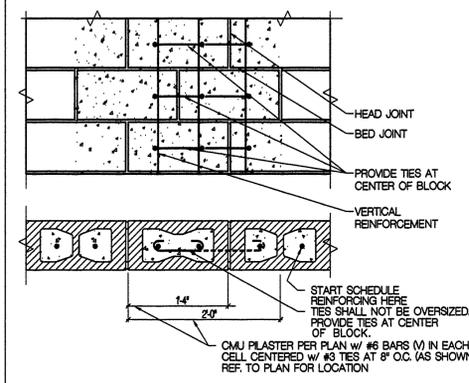
16 TYP. THICKENED SLAB AT CMU WALL AT DROP



12 TYPICAL THICKENED SLAB AT CMU WALL AT DROP



8 TYPICAL REINF. AT INT. OF CONC. FTGS.



WALL THICKNESS (T)	DIMENSIONAL LIMITS		
	CLEAR	PER	COLUMN
8"	H > 24" AND W > 32"	H > 24" AND 32" > W > 24"	H > 24" AND W < 24"
12"	H > 32" AND W > 40"	H > 32" AND 40" > W > 24"	H > 32" AND W < 24"
16"	H > 48" AND W > 64"	H > 48" AND 64" > W > 40"	H > 48" AND W < 40"

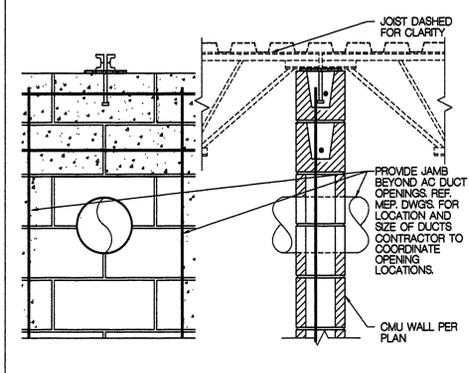
COLUMN DETAIL	PER DETAIL
4 (M) BARS TO MATCH TYPICAL WALL REINFORCING	VERTICAL BARS EACH CELL TO MATCH TYPICAL WALL REINFORCING

- NORMAL WALL REINFORCING AS NOTED ON DETAILS AND DESCRIBED IN GENERAL NOTES.
- ADDITIONAL VERTICAL REINFORCING AT CONTROL JOINTS - SEE TYPICAL CONTROL JOINT DETAIL.
- ADDITIONAL VERTICAL REINFORCING AT JAMBS OF ALL WALL OPENINGS.
- INTERMEDIATE BOND BEAM REINFORCED AND SPACED AS REQUIRED ON DRAWINGS. ONE INTERMEDIATE BOND BEAM SHALL BE PLACED AT WINDOW LINTEL ELEVATION AND AT 8'-0" O.C.
- ROOF LEVEL BOND BEAM REINFORCED AS NOTED ON DETAILS. CONTINUE ALL REINFORCING UN-CUT THROUGH CONTROL JOINTS.
- LINTEL REINFORCING AS DETAILED AND/OR SCHEDULED.
- CONTROL JOINTS (CJ) UNLESS NOTED OTHERWISE ON THE ARCHITECTURAL DRAWINGS, THE CJ SPACING NOTED IS THE MAXIMUM PERMITTED. THE SPACING OF CJS SHALL BE COORDINATED WITH THE WALL OPENING LOCATIONS AND IN NO CASE SHALL A CJ BE LOCATED CLOSER THAN 24" TO THE JAMB OF ANY WALL OPENING.
- FOUNDATION DOWELS TO MATCH VERTICAL WALL REINFORCING SIZE AND SPACING.
- SILL LEVEL BOND BEAM REINFORCED AS NOTED IN MASONRY GENERAL NOTES.

17 TYPICAL FLUSH WALL PLASTER

13 ELEVATION OF TYPICAL MASONRY WALL REINFORCING

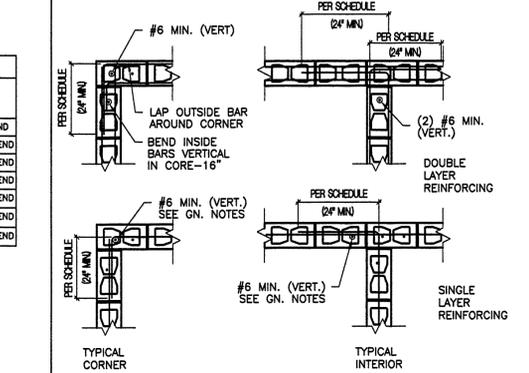
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CLEAR SPAN	WIDTH	DEPTH	REINFORCING	#3 TIES AT:	REMARKS
<3'-4"	8"	8"	(1) #6		
<4'-8"	8"	16"	(1) #6 (T) & (B)	8"	
<6'-8"	8"	24"	(1) #7 (T) & (B)	8"	
<10'-0"	8"	32"	(1) #7 (T) & (B)	8"	
<3'-4"	12"	8"	(2) #6		
<4'-8"	12"	16"	(2) #6 (T) & (B)	8"	
<6'-8"	12"	24"	(2) #7 (T) & (B)	8"	
<12'-0"	12"	32"	(2) #7 (T) & (B)	8"	
>12'-0"	12"	48"	(2) #7 (T) & (B)	8"	

LOOSE ANGLE LINTEL SCHEDULE			
* ANGLE SIZE (LLV)	CLEAR OPENING		REMARKS
	GREATER THAN	UP TO	
6" x 6" x 5/16"	---	3'-0"	8" MIN. BRG. EA. END
6" x 6" x 5/16"	3'-1"	6'-0"	12" MIN. BRG. EA. END
6" x 6" x 5/16"	6'-1"	8'-0"	12" MIN. BRG. EA. END
6" x 6" x 3/8"	8'-1"	9'-0"	16" MIN. BRG. EA. END
6" x 6" x 3/8"	9'-1"	10'-0"	16" MIN. BRG. EA. END
6" x 6" x 7/16"	10'-1"	11'-0"	16" MIN. BRG. EA. END
6" x 6" x 7/16"	11'-1"	12'-0"	16" MIN. BRG. EA. END

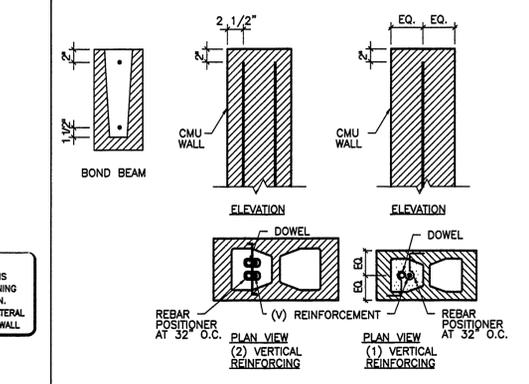
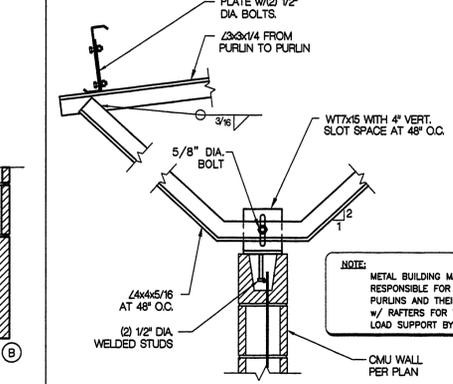
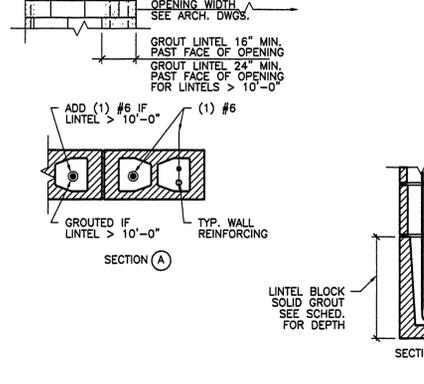
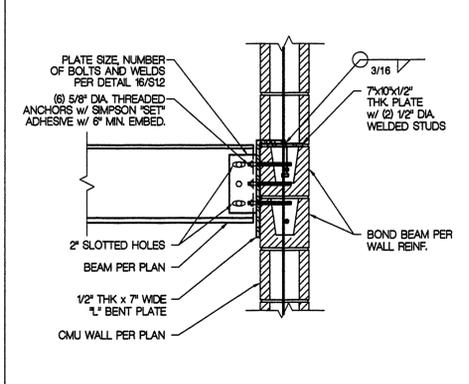
*FOR EACH 4" WIDTH OF MASONRY
 SEE ARCHITECTURAL PLANS FOR MASONRY OPENING DIMENSIONS, LOCATION, AND QUANTITIES.
 1. CUT HORIZONTAL LEG 1/4" FROM OUTSIDE FACE OF VENEER
 NOTE: ALL STEEL SHALL BE HOT DIP GALVANIZED



18 TYP. MASONRY OPENING AT AIR DUCT

14

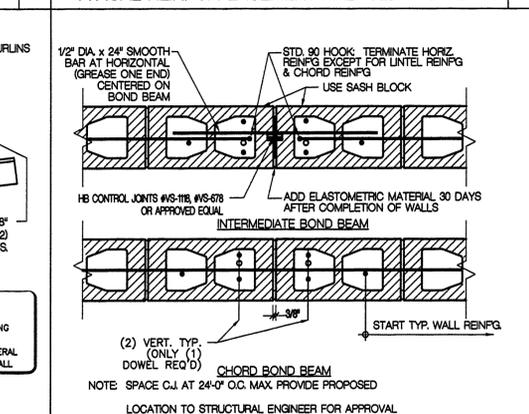
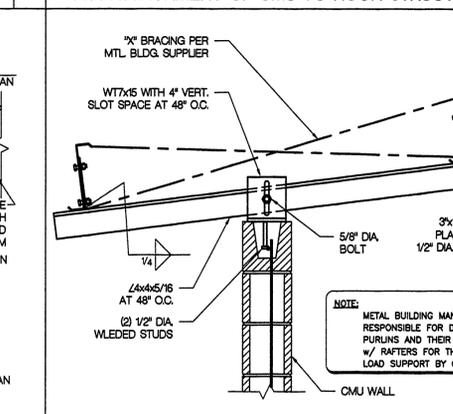
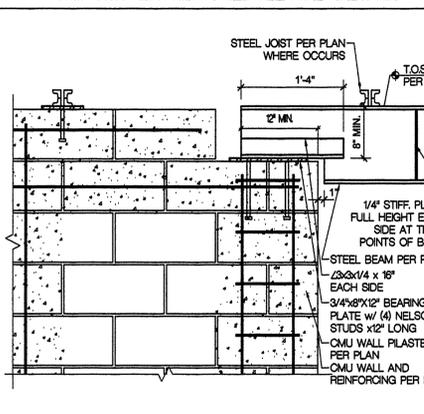
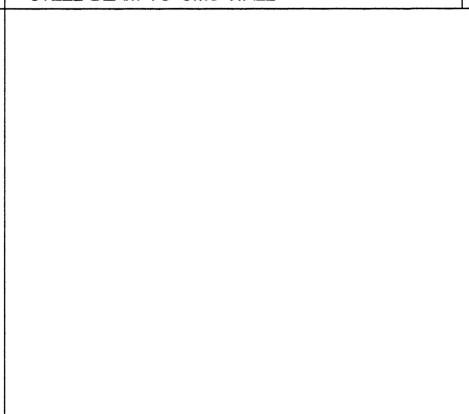
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19 STEEL BEAM TO CMU WALL

15 TYPICAL CMU LINTEL SCHEDULE AND DETAILS

7



20 STL. BM. TO CMU PLASTER CONNX

16 STL. BM. TO CMU PLASTER CONNX

8

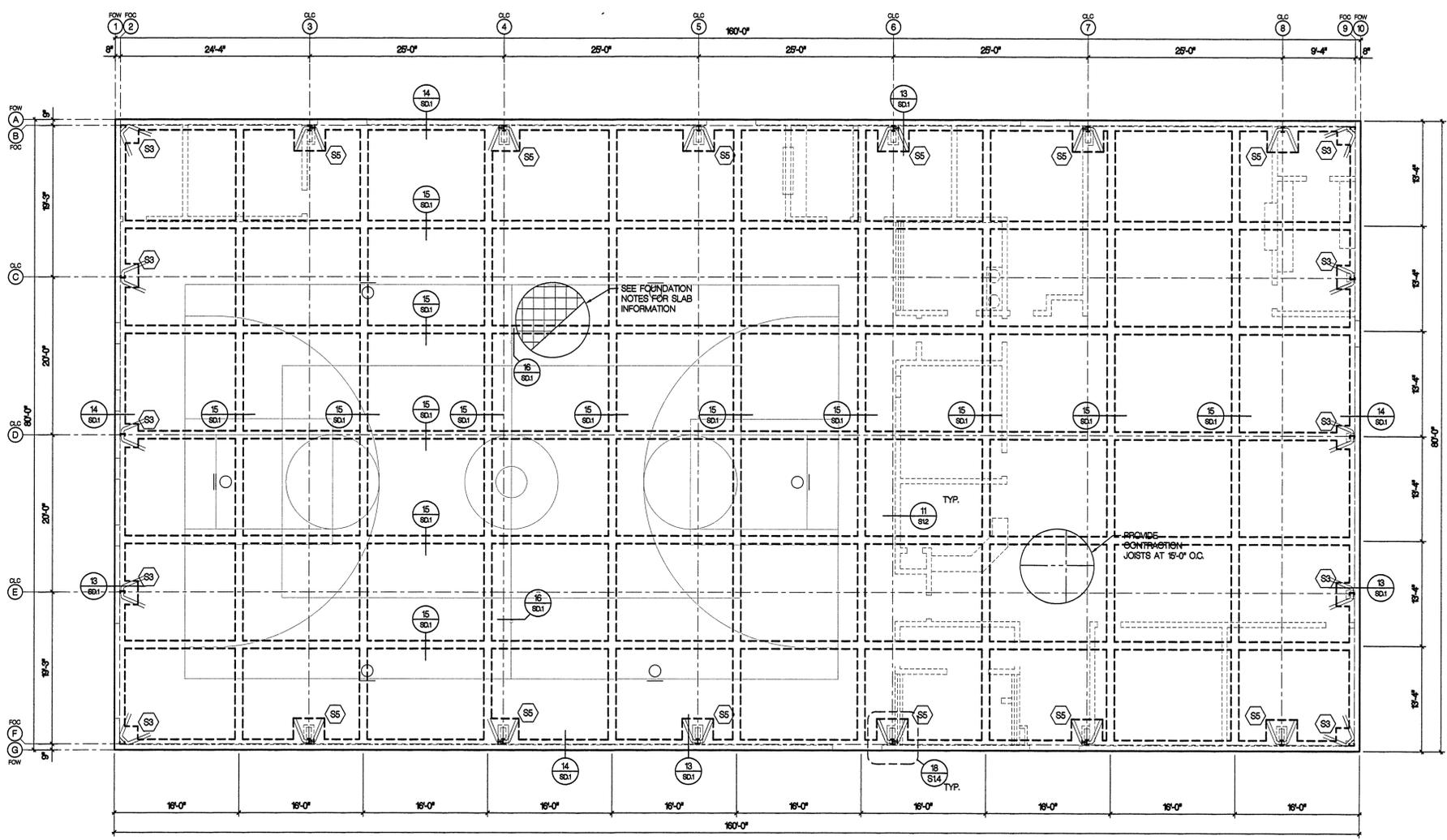
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FOUNDATION SUBGRADE

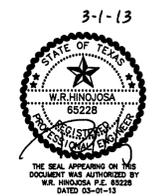
- PREPARATION OF EXISTING GROUND
 ALL AREAS TO SUPPORT SELECT FILL SHALL BE STRIPPED OF ALL VEGETATION AND/OR ORGANIC TOPSOIL. REMOVE ALL TREES AND ROOT UNDER BUILDINGS FOOT PRINT AND OTHER STRUCTURAL FOUNDATIONS SHOWN IN THESE DRAWINGS.
 MINIMUM DEPTH OF STRIPPING REMOVAL: 6 INCHES
 EXTEND BEYOND BUILDING FOOT PRINT: 5 FEET
 REMOVE THE EXISTING SUBGRADE DOWN TO A MINIMUM ELEVATION OF: 86.02 FEET (ANSL)
 EXTEND BEYOND BUILDING FOOT PRINT: 5 FEET
 THE EXPOSED SUBGRADE SHOULD BE PROOF ROLLED IN ACCORDANCE WITH ITEM 216 OF TxDOT'S 2004 STANDARD SPECIFICATIONS.
 THE EXPOSED SUBGRADE SHALL BE SCARIFIED TO A DEPTH OF 6 INCHES AND MOISTURE CONDITIONED TO WITHIN 0 TO 43 PERCENT OF THE OPTIMUM MOISTURE CONTENT. THE SUBGRADE SHALL BE COMPACTED TO 98 PERCENT OF THE MAXIMUM DENSITY AS DETERMINED BY THE STANDARD MOISTURE-DENSITY RELATION ASTM D-698. FOLLOWING COMPLETE CLEARING AND PREPARATION OF THE SITE FOR CONSTRUCTION, THE GEOTECHNICAL ENGINEER SHALL OBSERVE THE SITE TO DETERMINE THAT SATISFACTORY PREPARATION HAS BEEN ACCOMPLISHED.
- SELECT FILL MATERIAL
 SELECT MATERIAL SHALL COMPLY PER RABA KISTNER CONSULTANTS GEOTECHNICAL REPORT, NO. AMA12-043-00, DATED SEPTEMBER 24, 2012.
 * FINISH FLOOR SHALL BE 18" MINIMUM ABOVE TOP OF CURB ELEVATION OR 18" MINIMUM ABOVE CROWN OF STREET, OR AS INDICATED ON CIVIL DRAWINGS. INCREASE INDICATED AMOUNT OF FILL AS REQUIRED TO ACHIEVE MOST STRINGENT REQUIREMENT.
 MINIMUM AMOUNT OF SELECT FILL: 48 INCHES
 PLASTICITY INDEX: REFERENCE RABA KISTNER GEOTECHNICAL ENGINEERING REPORT NO. AMA12-043-00
 MAXIMUM LIQUID LIMIT: REFERENCE RABA KISTNER GEOTECHNICAL ENGINEERING REPORT NO. AMA12-043-00
 NO ORGANIC OR OTHER PERSHABLE MATERIAL
 NO STONES LARGER THAN TWO (2) INCHES
- PLACING SELECT FILL
 FILL LIFTS: NOT EXCEEDING 6 INCHES, COMPACTED LIFTS
 MINIMUM AMOUNT OF SELECT FILL: 48 INCHES
- COMPACTION OF SELECT FILL
 MOISTURE: REFERENCE RABA KISTNER GEOTECHNICAL ENGINEERING REPORT NO. AMA12-043-00
 COMPACTION: REFERENCE RABA KISTNER GEOTECHNICAL ENGINEERING REPORT NO. AMA12-043-00
- COMPACTION TESTING
 ATTERBERG LIMITS: ONE AT A RATE OF 5000 CUBIC YARDS.
 COMPACTION: ONE TEST PER 3000 SQUARE FEET PER LIFT
 MINIMUM OF 3 PER LIFT
- THE SOILS ENGINEER SHALL BE THE OWNER'S REPRESENTATIVE TO CONTROL THE PLACEMENT OF COMPACTED FILL. THE SOILS ENGINEER SHALL APPROVE THE SUBGRADE PREPARATION, THE FILL MATERIALS, THE METHOD OF PLACEMENT AND COMPACTOR. THE WRITTEN APPROVAL OF THE COMPLETED FILL THE SOILS REPORT/FOUNDATION INVESTIGATION IS TO BE CONSIDERED A PART OF THESE PLANS AND SHALL BE COMPLIED WITH BY THE CONTRACTOR. ALL EARTHWORK AND GRADING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE FOUNDATION INVESTIGATION OR PER NOTES 1 THRU 4 ABOVE WHICHEVER HAS THE MOST STRINGENT REQUIREMENTS.
- IN THE EVENT FOUNDATION EXCAVATIONS ARE CARRIED TO A DEPTH GREATER THAN REQUIRED, THE ADDITIONAL DEPTH SHALL BE FILLED WITH THE SAME CONCRETE AS THAT USED FOR FOOTING AT NO ADDITIONAL EXPENSE TO THE OWNER. NO UNCONTROLLED FILL WILL BE PERMITTED.
- THE FOOTING EXCAVATIONS SHALL BE KEPT FREE FROM LOOSE MATERIAL AND STANDING WATER. THE FOUNDATION EXCAVATIONS SHOULD BE OBSERVED BY THE SOILS ENGINEER PRIOR TO STEEL OR CONCRETE PLACEMENT TO ASSESS THAT THE FOUNDATION MATERIALS ARE CAPABLE OF SUPPORTING THE DESIGN LOADS AND ARE CONSISTENT WITH THE MATERIALS DISCUSSED IN THE REPORT. THIS IS ESPECIALLY IMPORTANT TO IDENTIFY THE ACCEPTABILITY OF THE SUBGRADE OR FILL MATERIAL UNDER THE FOOTING. SOIL ZONES ENCOUNTERED AT THE BOTTOM OF THE FOOTING OR BEAM EXCAVATIONS SHOULD BE REMOVED TO THE LEVEL OF COMPETENT SOIL AS DIRECTED BY THE GEOTECHNICAL ENGINEER. CAVITIES FORMED AS A RESULT OF EXCAVATION OF LOOSE SOIL ZONES SHOULD BE BACKFILLED WITH LEAN CONCRETE OR SELECT FILL AS DETERMINED BY THE GEOTECHNICAL ENGINEER.
- CARE SHOULD BE TAKEN TO SHAPE THE BUILDING AREAS SUCH THAT WATER WILL NOT POOL AROUND THE STRUCTURE DURING CONSTRUCTION AND CAUSE THE NEAR SURFACE CLAYS TO SWELL. THE PROPOSED STRUCTURE SHALL BE ISOLATED FROM ANY MOISTURE SOURCE WHICH MIGHT ALSO CAUSE SWELLING OF THE CLAYS AFTER COMPLETION OF THE CONSTRUCTION.
- WHEN THE STRUCTURE IS COMPLETE, THE GROUND SURFACE SHOULD SLOPE AWAY FROM THE STRUCTURE AND DOWN SPOUTS SHOULD CARRY RUNOFF WATER SEVERAL FEET FROM THE BUILDING, PREFERABLY INTO PAVED AREAS OR BEVERNS, BEFORE DISCHARGING. DO NOT PLANT OR LEAVE IN PLACE DEEP ROOTED TREES WITHIN PROXIMITY TO THE PERIMETER OF THE STRUCTURE. DEEP ROOTED TREES HAVE POTENTIAL TO REMOVE MOISTURE FROM BENEATH THE BUILDING IF PLANTED CLOSE ENOUGH TO ALLOW THE ROOT BULB EXTEND NEAR OR BENEATH THE BUILDING.
- IF CONSTRUCTION IS DELAYED, THE FOUNDATION SHOULD BE COVERED WITH A MINIMUM OF 6 FEET FROM THE PERIMETER OF THE STRUCTURE. THE DISCHARGE AREA SHALL HAVE SUFFICIENT SLOPE AWAY FROM THE STRUCTURE TO PREVENT STANDING WATER.
- THE FILL ONE (1) FOOT OF FILL OUTSIDE THE BUILDING AREA SHOULD CONSIST OF A COHESIVE CLAYEY (CL) SOIL. FILL CAN NOT BE ALLOWED TO DRY OUT DURING OR AFTER COMPACTION. (PI) BETWEEN 15 AND 25.
- NOTE THAT SOME LEVELS OF RISK ARE ASSOCIATED WITH ALL FOUNDATION SYSTEMS AND THERE IS NO SUCH THING AS A "ZERO RISK" FOUNDATION. IT ALSO SHOULD BE NOTED THAT THE FOUNDATION PROVIDED IS NOT DESIGNED TO RESIST SOIL MOVEMENT AS A RESULT OF SEWER/PLUMBING LEAKS, EXCESSIVE IRRIGATION, NON UNIFORM IRRIGATION, POOR DRAINAGE, AND WATER PONDING NEAR THE FOUNDATION SYSTEM.

FOUNDATION NOTES

- FOR GENERAL NOTES SEE SHEET S11
- FOR TYPICAL DETAILS NOT REFERRED IN PLAN SEE SHEET S12 AND S13
- CONTRACTOR/SUBCONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE COMMENCING ANY WORK. THE CONTRACTOR/SUBCONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT/ENGINEER BEFORE THE WORK HAS BEGUN.
- REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL DIMENSIONS.
- REFER TO ARCHITECTURAL PLANS FOR FLOOR DRAINS.
- 5" THK SLAB ON GRADE W/ #4 AT 12" O.C. EACH WAY AT MID-DEPTH OF SLAB OVER 15 MIL STEGO WRAP OVER APPROVED COMPACTED FILL.
- SLAB CONTRACTION JOINT, SEE DETAIL 5/S12
- FOR DROP IN SLAB ON GRADE, REFER TO DETAIL 1/S12
- INDICATES 16" LONG CMU PLASTER UNO. ON PLANS
- FOR TYPICAL THICKEN SLAB UNDER CMU WALL, REFER TO DETAIL 11/S12
- FOR TYPICAL THICKEN SLAB UNDER CMU WALL WITH DEPRESSED SLAB, REFER TO DETAIL 8/S12
- FOR 6"x16" CMU PLASTER, SEE DETAIL 13/S13
- REFERENCE FRAMING PLANS FOR CMU WALL REINFORCEMENT.
- VERIFY ALL SLAB DEPRESSIONS W/ ARCH. DWG'S FOR EXTENT AND LOCATION
- FOR FOOTING SCHEDULE, REFER TO DETAIL 7/S01

1 FOUNDATION PLAN
 SCALE: 3/16"=1'-0"

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DATE: 13-106
 DRAWN BY: 03-01-13
 CHECKED BY: TB
 FILE NAME: AT,RH
 SHEET:

S2.1



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BOYS & GIRLS CLUB RECREATION CENTER
 WESLACO, TEXAS
 TEXAS PARKS AND WILDLIFE DEPARTMENT
 LOCAL PARK GRANT PROGRAM
 PROJECT NUMBER: 51-000065

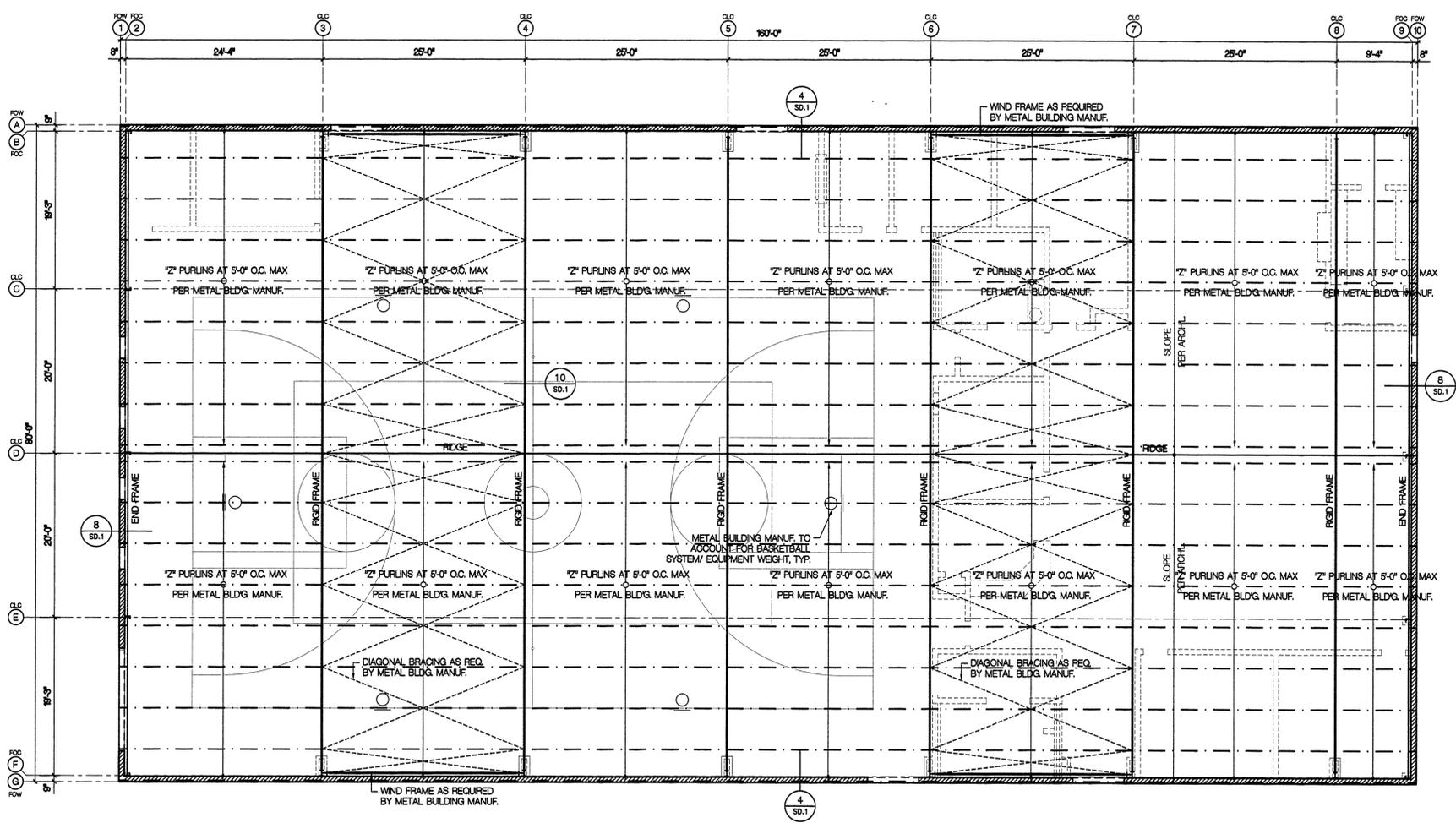
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3-1-13



DATE: 13-106
 DRAWN BY: 03-01-13
 CHECKED BY: TB
 FILE NAME: AT,RH
 SHEET:

S3.1



1 FRAMING PLAN
 SCALE: 3/16"=1'-0"

FRAMING NOTES

- FOR GENERAL NOTES SEE SHEET S11
- FOR TYPICAL DETAILS SEE SHEET S12 AND S13
- DIMENSIONS SHOWN ARE FOR GENERAL INFORMATION COORDINATE WITH ARCHITECTURAL PLANS.
- SEE ARCHITECTURAL ROOF PLAN FOR ROOF HATCHES
- JOIST MANUFACTURER TO VERIFY THE MINIMUM ROW OF BRIDGING AND BRIDGING SIZE, AS REQUIRED BY S1.
- STEEL BEAM TO STEEL COLUMN CONNECTION PER DETAIL 16/S12
- STEEL BEAM TO STEEL BEAM CONNECTION PER DETAIL 16/S12
- ALL STEEL COLUMN SHALL BE HSS 5x5x7/16 UNO, ON PLANS.
- WHERE STEEL JOIST IS SUPPORTED BY A STEEL COLUMN, SEE DETAIL 16/S12
- FOR OPENING IN ROOF AND AT MECHANICAL UNITS, SEE DETAIL 20/S12
- ZZZZZZ INDICATES 8" CMU WALL WITH #5 (V) AT 32" O.C. AND #4 (H) AT 48" O.C. UNO. VERIFY CMU WALLS THICKNESS WITH ARCHITECTURAL PLANS, 8" CMU WALLS SHOWN ON STRUCTURAL PLANS ARE MIN. THICKNESS AND GOVERN OVER ARCHITECTURAL DRAWINGS.
- INDICATES CMU LINTEL (NOT ALL LINTELS ARE SHOWN). SEE DETAIL 11/S13
- PROVIDE CMU LINTEL WHERE MECH. DUCT PENETRATES CMU WALL, PER DETAIL 14/S13
- WHERE STEEL JOIST IS SUPPORTED BY A STEEL BEAM, SEE DETAIL 17/S12
- FOR CMU TO ROOF ATTACHMENT, REFER TO DETAILS 7 & 8/S13

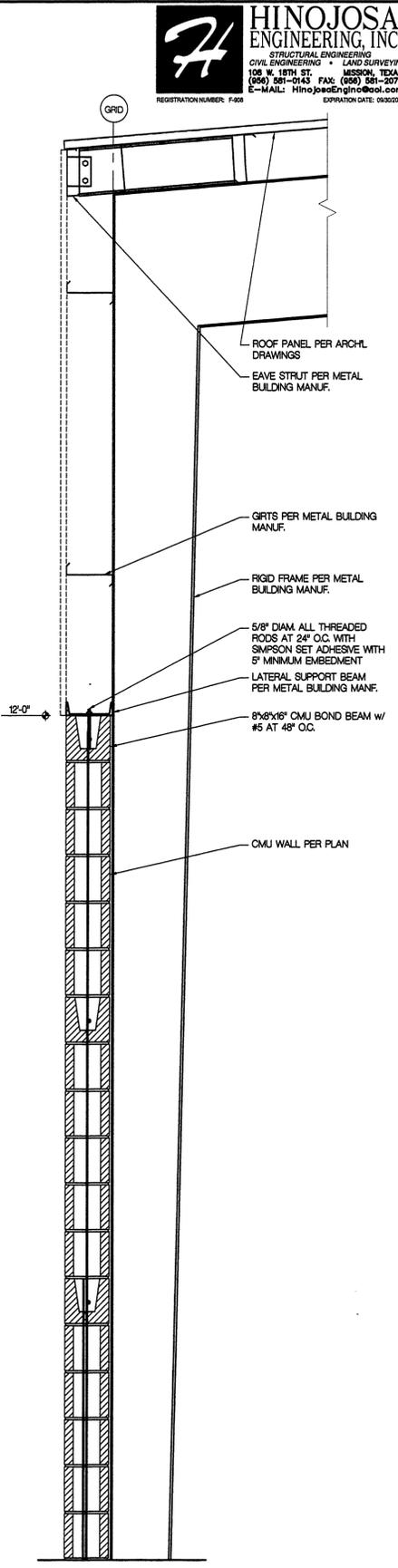
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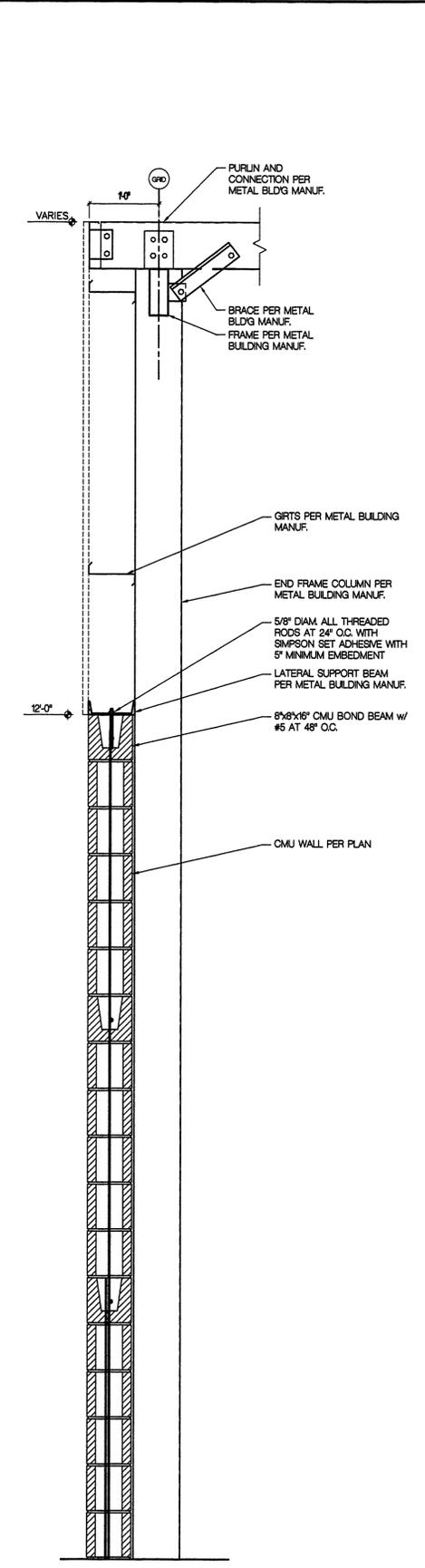


DATE: 13-106
 DRAWN BY: 03-01-13
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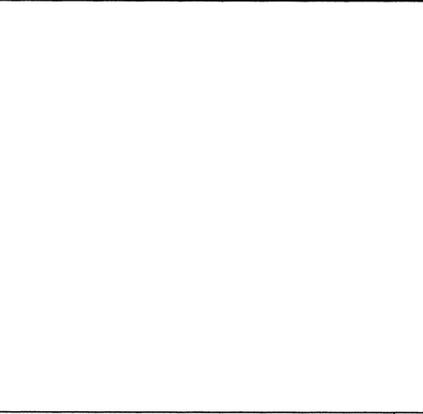
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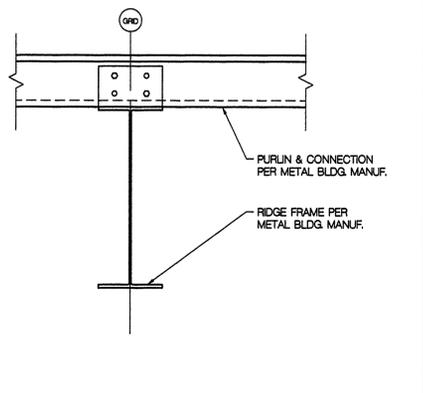
FRAMING WALL SECTION 4



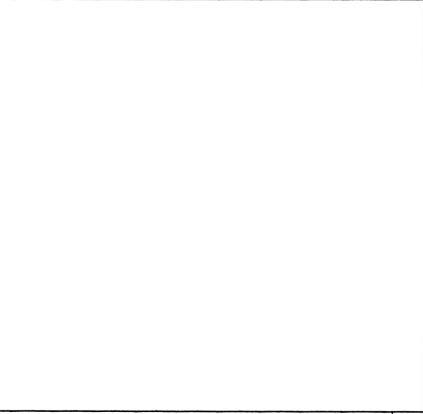
FRAMING WALL SECTION 8



EXTERIOR GRADE BEAM 9



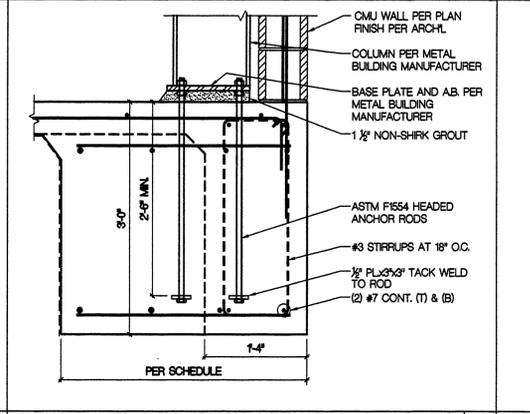
TYPICAL PURLINS TO METAL BUILDING 10



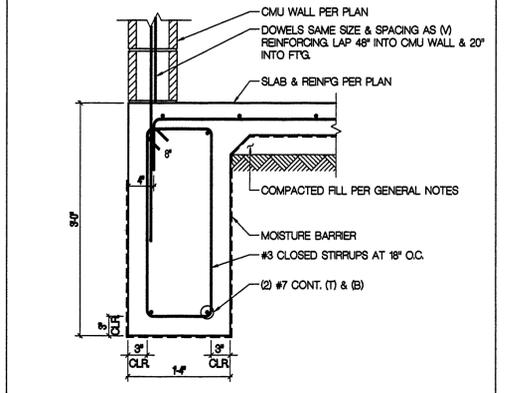
EXTERIOR GRADE BEAM 11



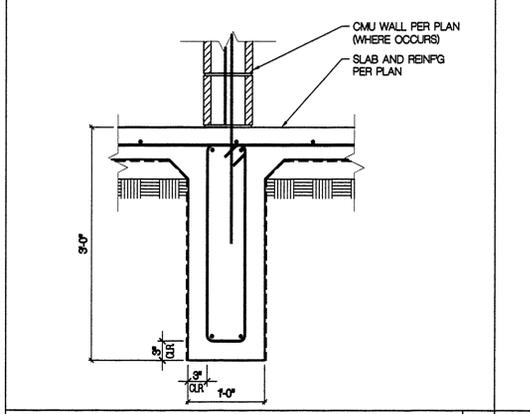
VOLLEYBALL POLE SUPPORT FOOTING 16



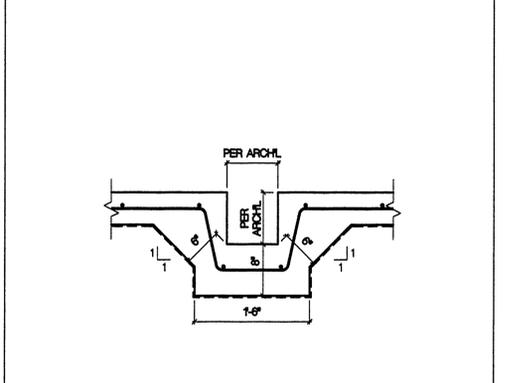
EXTERIOR GRADE BEAM 13



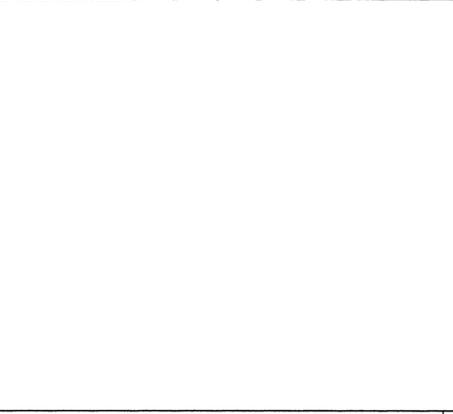
EXTERIOR GRADE BEAM 18



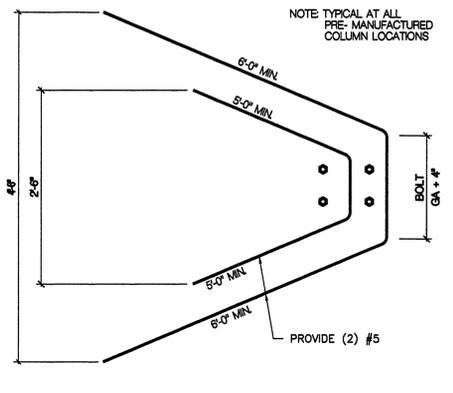
INTERIOR FOOTING AT CMU WALL 15



WIDENED BEAM FOOTINGS 20



PLAN VIEW, THRUST BAR 17

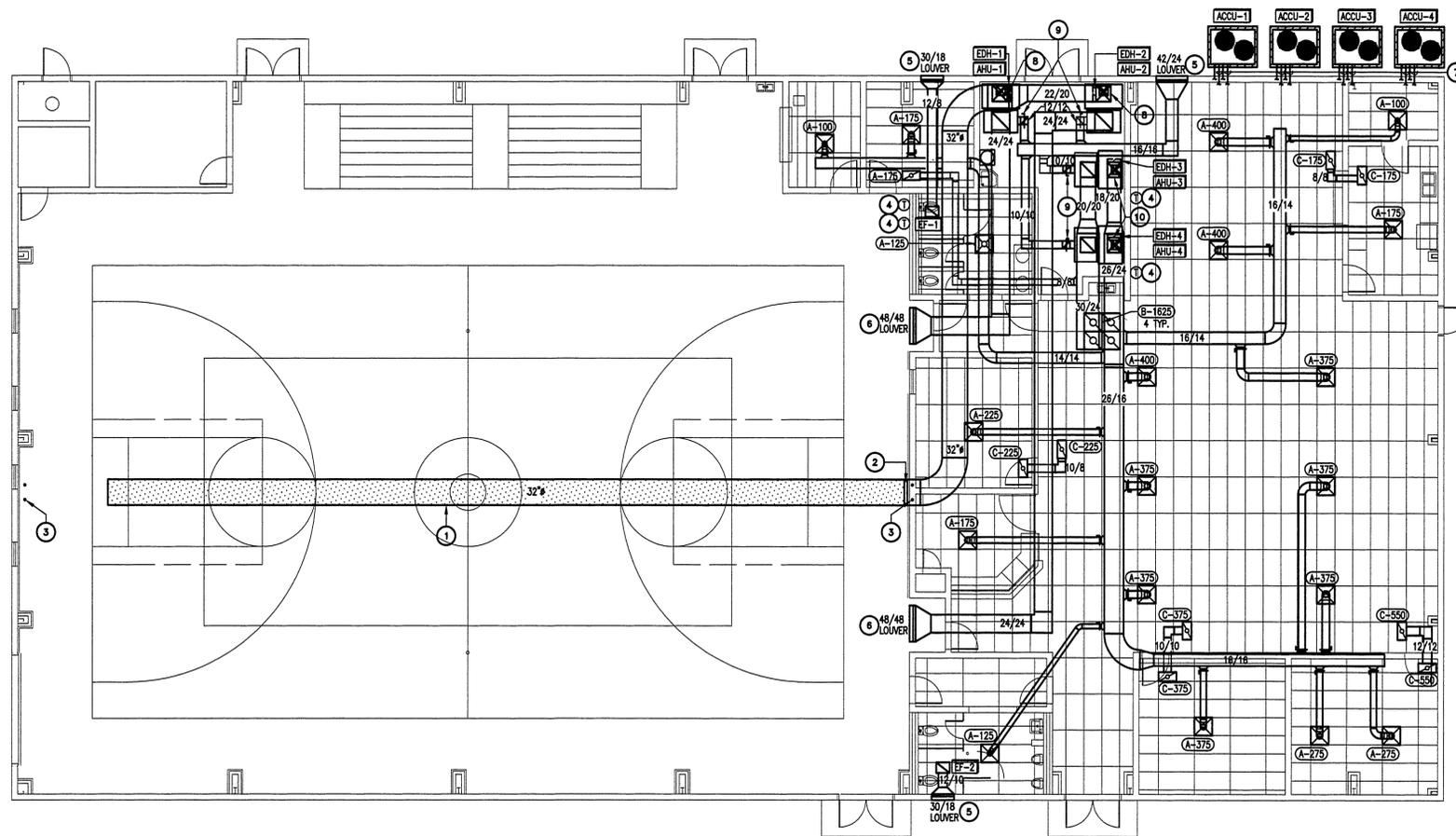


PLAN VIEW, THRUST BAR 18

FOOTING SCHEDULE					
TYPE	A	B	C	D	REINFORCING
P1	1'-6"			3'-0"	(3) #4S (V) w/ #3 SPRLS w/ 6" PITCH
S2	2'-0"			3'-0"	#5S @ 12" O.C. EW. TOP & BOT.
S3	3'-0"			3'-0"	#5S @ 12" O.C. EW. TOP & BOT.
S3A	3'-6"			3'-0"	#5S @ 12" O.C. EW. TOP & BOT.
S4	4'-0"			3'-0"	#5S @ 12" O.C. EW. TOP & BOT.
S4A	4'-6"			3'-0"	#5S @ 12" O.C. EW. TOP & BOT.
S4B	4'-8"			3'-0"	#5S @ 12" O.C. EW. TOP & BOT.
S5	5'-0"			3'-0"	#5S @ 12" O.C. EW. TOP & BOT.
SSA	5'-6"			3'-0"	#5S @ 12" O.C. EW. TOP & BOT.

NOTES: 1. D = FOOTING DEPTH BELOW FINISH FLOOR
 2. FOOTING DIMENSIONS ARE FOR BIDDING PURPOSES ONLY. ACTUAL DIMENSIONS MAY VARY.
 3. PROVIDE UNIT PRICES (ON A CUBIC YARD BASIS) FOR REINFORCED (#5S @ 12" O.C. EW. TOP & BOT) WIDENED BEAM CONCRETE FOOTINGS

FOOTING SCHEDULE 20



MECHANICAL PLAN

SCALE: 1/8" = 1'-0"

GENERAL NOTES:

- A. REFER TO SCHEDULE SHEET FOR GENERAL MECHANICAL NOTES.
- B. DUCTS SHALL BE SHEETMETAL TYPE WITH EXTERNAL WRAP INSULATION.
- C. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES TO MAINTAIN ACCESS CLEARANCES FOR ALL MECHANICAL EQUIPMENT.
- D. EXPOSED DUCTS SHALL BE SHEETMETAL INTERNALLY LINED WITH 2-INCH INSULATION. SHEETMETAL SHALL BE SURFACED FOR PAINTING.

KEY NOTES:

- 1. PROVIDE AND INSTALL FABRIC DUCT EQUAL TO DUCTSOX CYLINDRICAL SERIES "VERONA" TYPE DUCT WITH TWO WAY COMFORT FLOW AIR DISCHARGE. MOUNT DUCT AS HIGH AS POSSIBLE. COORDINATE STANDARD COLOR SELECTION WITH ARCHITECT.
- 2. CONNECT FABRIC DUCT TO SHEETMETAL PER INLET ATTACHMENT DETAIL. PROVIDE AND INSTALL ADJUSTABLE FABRIC FLOW DEVICE AT ZIPPER LOCATION AT INLET. REFER TO ADJUSTABLE FLOW DEVICE DETAIL.
- 3. PROVIDE AND INSTALL TWO ROW CABLE SUSPENSION SYSTEM FOR FABRIC DUCT. ANCHOR CABLE END ONTO PERIMETER WALL AND SUPPORT CABLE FROM STRUCTURE AS REQUIRED. REFER TO SUSPENSION DETAIL.
- 4. PROVIDE THERMOSTAT WITH METAL TAMPER-PROOF ENCLOSURE (LOCK & KEY). EQUAL TO A HONEYWELL SERIES "T651" (VERIFY DEVICE SIZE WITH MANUFACTURER).
- 5. PROVIDE AND INSTALL LOUVER EQUAL TO A RUSKIN MODEL "EMES2000" WITH KYNAR FINISH. COORDINATE COLOR SELECTION WITH ARCHITECT.
- 6. PROVIDE AND INSTALL LOUVER EQUAL TO A RUSKIN MODEL "ELF375XH" WITH KYNAR FINISH. COORDINATE COLOR SELECTION WITH ARCHITECT.
- 7. PROVIDE AND INSTALL REFRIGERANT LINES PER MANUFACTURER RECOMMENDATIONS. PROVIDE INSULATION ON BOTH SUPPLY/RETURN LINES. REFRIGERANT LINES LOCATED ON EXTERIOR SHALL BE PROVIDED WITH ALUMINUM JACKET. ROUTE REFRIGERANT LINES TO ASSOCIATED AIR HANDLING UNIT(S).
- 8. RISE 22/20 DUCT FROM EACH UNIT AND CONNECT TO 34" DUCT. PROVIDE AND INSTALL BACKDRAFT DAMPER AT THE DISCHARGE OF EACH UNIT. DAMPER SHALL BE EQUAL TO A RUSKIN MODEL "BD6".
- 9. PROVIDE AND INSTALL CONTROL DAMPER ON OUTSIDE AIR DUCT EQUAL TO A RUSKIN MODEL "CD40". FURNISH WITH 2-POSITION ACTUATOR.
- 10. RISE 18/20 DUCT FROM EACH UNIT AND CONNECT TO 34" DUCT. PROVIDE AND INSTALL BACKDRAFT DAMPER AT THE DISCHARGE OF EACH UNIT. DAMPER SHALL BE EQUAL TO A RUSKIN MODEL "BD6".



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BOYS & GIRLS CLUB RECREATION CENTER
 WESLACO, TEXAS

TEXAS PARKS AND WILDLIFE DEPARTMENT
 LOCAL PARK GRANT PROGRAM
 PROJECT NUMBER: 51-000065

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Luis Javier Pena
 03.01.2013

DATE: 03.01.13

DRAWN BY: A.S.

CHECKED BY: J.P.

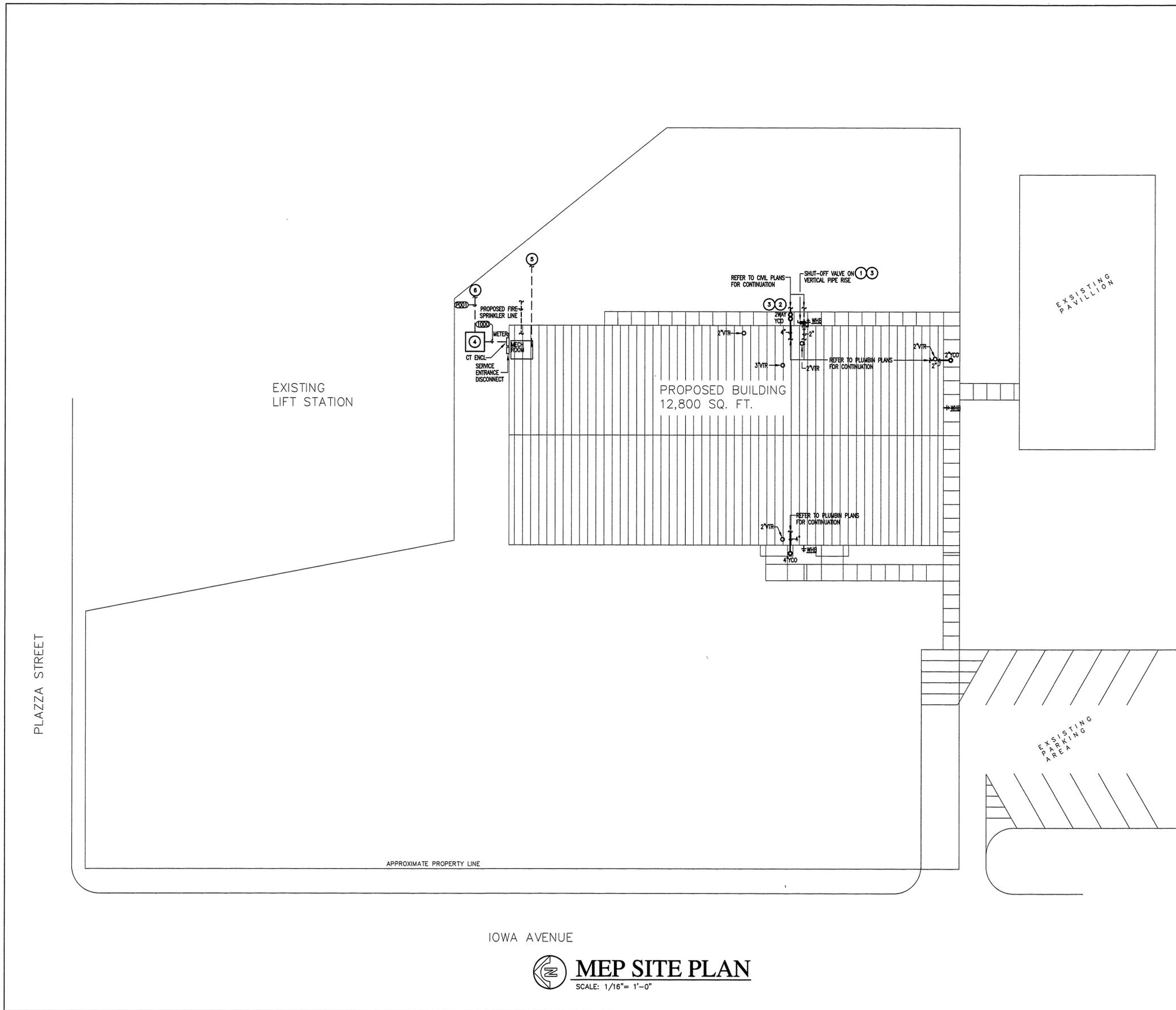
FILE NAME:

SHEET:



MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
 600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX 78501 (956) 684-2727

M1



GENERAL NOTES: ()

(A) INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE ENGINEER.
 (B) FOR FEEDER / BRANCH CIRCUIT SCHEDULE REFER TO SHEET E3.

KEYED NOTES: ○

- 1 FURNISH AND INSTALL BALL VALVE ON EXTERIOR DOMESTIC WATER RISE PIPE. PROVIDE WITH INSULATION AND ALUMINUM JACKET. REFER TO CIVIL PLAN FOR DOMESTIC WATER LINE CONTINUATION 5- FEET BEYOND BUILDING.
- 2 PROPOSED 4" SEWER LINE. REFER TO CIVIL PLAN FOR EXACT LOCATION.
- 3 PLUMBING CONTRACTOR SHALL VERIFY POINT OF CONNECTION TO UTILITIES PRIOR TO BID TO AVOID CONFLICT. ANY DISCREPANCIES FOUND BY THE PLUMBING CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.
- 4 UTILITY COMPANY TRANSFORMER. PAD BY ELECTRICAL CONTRACTOR.
- 5 ROUTE 2-4" AS DIRECTED BY TELEPHONE/DATA CO.
- 6 ROUTE AS DIRECTED BY UTILITY COMPANY.



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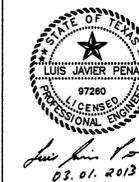
Abraham L. Dominguez
 03.01.2013

DATE: 03.01.13
 DRAWN BY: M.G.
 CHECKED BY: A.D.
 FILE NAME:
 SHEET:

IOWA AVENUE
MEP SITE PLAN
 SCALE: 1/16" = 1'-0"

MEP SOLUTIONS ENGINEERING
 MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
 600 E. BEAUMONT AVE. SUITE 2 MCALLEN, TX 78501 (956) 664-2727

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DATE: 03.01.13
DRAWN BY: A.S.
CHECKED BY: J.P.
FILE NAME:
SHEET:

GENERAL MECHANICAL NOTES

- CONTRACTOR SHALL HANG AND INSTALL ALL DUCTWORK TIGHT WITH THE BUILDING STRUCTURE TO ACCOMMODATE CEILING. CONTRACTOR SHALL COORDINATE INSTALLATION WORK WITH ALL OTHER TRADES. ALL DUCTWORK SHALL BE MODIFIED AS REQUIRED TO FIT AROUND BUILDING STRUCTURES.
- CONTRACTOR SHALL BALANCE ALL AIR DISTRIBUTION SYSTEMS TO ACHIEVE THE AIR VOLUME REQUIREMENTS AS INDICATED. BALANCING SHALL INCLUDE ADJUSTMENT OF ALL MANUAL VOLUME DAMPERS AND INDIVIDUAL DIFFUSER DAMPERS.
- CONTRACTOR SHALL MOUNT ALL THERMOSTATS 48-INCHES ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. COORDINATE THE FINAL LOCATION OF EACH THERMOSTAT WITH ROOM FINISHES. PROVIDE ALL CONTROL VOLTAGE WIRING FOR THERMOSTAT INSTALLATION.
- CONTRACTOR SHALL COORDINATE THE FINAL LOCATIONS OF ALL CEILING AIR DEVICES WITH LIGHTING INSTALLATIONS AND ARCHITECTURAL CEILING PLANS. AIR DEVICES SHALL BE RELOCATED IF REQUIRED TO AVOID OBSTRUCTION WITH DUCTWORK AND LIGHT FIXTURES.
- PROVIDE SMOKE DETECTOR AND SHUTDOWN CONTROLS ON AIR HANDLERS. SMOKE DETECTORS SHALL BE INSTALLED FOR SHUTDOWN BY DIVISION 16. PROVIDE DEVICES ON SUPPLY AIR DUCT.
- ALL MECHANICAL LOUVERS SHALL BE EQUAL TO RUSKIN MODEL "EMES2000". PROVIDE WITH KYNAR FINISH AND INSECT SCREEN. COLOR SELECTION BY ARCHITECT.

GENERAL ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
AFF	ABOVE FINISHED FLOOR	KW	KILOWATTS
AHU	AIR HANDLING UNIT	L	LOUVER
ACCU	AIR COOLED CONDENSING UNIT	MAX	MAXIMUM
DB	DRY BULB	MIN	MINIMUM
EDH	ELECTRIC DUCT HEATER	NTS	NOT TO SCALE
EF	EXHAUST FAN	OPD	OPPOSED BLADE DAMPER
FCU	FAN COIL UNIT	S.P.	STATIC PRESSURE
FCCU	FAN COOLED CONDENSING UNIT	WB	WET BULB

CONDENSING UNITS

CONDENSING UNIT DESIGNATION	ACCU-1	ACCU-2	ACCU-3	ACCU-4
CONDENSER AIR (DB)/F	98	98	98	98
VOLTAGE/PHASE	208/3ø	208/3ø	208/3ø	208/3ø
MCA/MOCP	50.3/60	50.3/60	35.0/60	35.0/60
MANUFACTURER	CARRIER	CARRIER	CARRIER	CARRIER
MODEL	38ARZ-012	38ARZ-012	38ARZ-008	38ARZ-008
UNIT WEIGHT (LBS)	240	240	240	240
EFFICIENCY EER (SEER)	10.3	10.3	10.6	10.6
REMARKS	1,2,3,4	1,2,3,4	1,2,3,4	1,2,3,4

- REMARKS**
- PROVIDE 4-INCH HIGH CONCRETE PAD FOR CONDENSING UNIT.
 - PROVIDE AND INSTALL REFRIGERANT LINES PER MANUFACTURER RECOMMENDATIONS. (FURNISH WITH FILTER DRYER, SIGHT GLASS, AND SERVICE VALVES PER CIRCUIT)
 - PROVIDE CONDENSER COIL HAIL GUARDS, E-COATED COILS, AND LOW AMBIENT CONTROL
 - PROVIDE HIGH/LOW PRESSURE SWITCH, ANTI-SHORT-CYCLING PROTECTION, AND CROWKASE HEATER.

AIR HANDLING UNIT

AIR HANDLING UNIT DESIGNATION	AHU-1	AHU-2	AHU-3	AHU-4
UNIT CONFIGURATION	VERTICAL	VERTICAL	VERTICAL	VERTICAL
UNIT LOCATION	MECHANICAL ROOM	MECHANICAL ROOM	MECHANICAL ROOM	MECHANICAL ROOM
FAN SECTION				
SUPPLY CFM	3700	3700	2600	2600
OUTSIDE AIR CFM (MIN/MAX)	375	375	275	275
EXTERNAL S.P. ("W.G.)	0.75	0.75	0.75	0.75
MOTOR HP.	2.95	2.95	1.3	1.3
DRIVE TYPE	BELT	BELT	BELT	BELT
COOLING COIL SECTION				
COIL TYPE	DIRECT EXP (DX)	DIRECT EXP (DX)	DIRECT EXP (DX)	DIRECT EXP (DX)
TOTAL CAPACITY (MBH)	124.5	124.5	95.9	95.9
SENSIBLE CAPACITY (MBH)	93.5	93.5	70.0	70.0
ENTERING AIR (DB/WB)/F	77/64	77/64	77/64	77/64
LEAVING AIR (DB/WB)/F	53.7/52.7	53.7/52.7	52.2/51.5	52.2/51.5
ROWS (MIN)/FINS PER INCH (MAX)	6/10	6/10	6/10	6/10
FILTER SECTION				
FILTER TYPE	2"-30%	2"-30%	2"-30%	2"-30%
STATIC PRESSURE DROP (CLEAN)	0.18	0.18	0.18	0.18
STATIC PRESSURE DROP (FOR FAN SIZE)	0.59	0.59	0.59	0.59
OVERALL UNIT				
VOLTAGE/PHASE	208/3ø	208/3ø	208/3ø	208/3ø
MAX FACE VELOCITY (FPM)	552	552	487	487
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL	VFC-3000-30	VFC-3000-30	VFC-3000-15	VFC-3000-15
UNIT WEIGHT (LBS)	712	712	712	712
REMARKS	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7

- REMARKS**
- PROVIDE 1" DOUBLE WALL CONSTRUCTION, MINIMUM R-7 INSULATION.
 - PROVIDE HINGED ACCESS DOORS AT FILTER AND FAN SECTIONS.
 - PROVIDE WITH STAINLESS STEEL DRAIN PAN AND FLOAT SWITCH.
 - PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT WITH CAPABILITY FOR HEATING/COOLING AND OUTDOOR AIR DAMPER CONTROL.
 - FURNISH R-410A DIRECT EXPANSION COIL WITH INTERMIXED COIL CONFIGURATION. PROVIDE TXV'S AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. VERIFY REFRIGERANT TYPE WITH CONDENSER MANUFACTURER.
 - MOTOR STARTER DISCONNECT SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
 - PROVIDE WITH FLAT FILTER SECTION (2-INCH MERV 8), 6-ROW/8-FPH DX-COIL SECTION, AND VERTICAL DISCHARGE FAN.

SUPPLY AIR NECK/BRANCH DUCT SIZE CHART

NECK/BRANCH SIZE	CFM RANGE
6" DIAMETER	0 - 150
8" DIAMETER	151 - 280
10" DIAMETER	281 - 450
12" DIAMETER	451 - 600
14" DIAMETER	601 - 800
16" DIAMETER	801 - 1000
18" DIAMETER	1001 - 1400
20" DIAMETER	1401 - 1800

RETURN AIR NECK/BRANCH DUCT SIZE CHART

NECK/BRANCH SIZE	CFM RANGE
6" DIAMETER	0 - 75
8" DIAMETER	76 - 150
10" DIAMETER	151 - 300
12" DIAMETER	301 - 500
14" DIAMETER	501 - 700
16" DIAMETER	701 - 1000
18" DIAMETER	1001 - 1400
20" DIAMETER	1401 - 1800

MECHANICAL SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
⊖	THERMOSTAT	⊞	CONDENSING UNIT
⊞	SUPPLY AIR DEVICE (SEE SCHEDULE)	⊞	EXHAUST AIR DUCT
⊞	RETURN/TRANSFER AIR DEVICE (SEE SCHEDULE)	⊞	RETURN AIR DUCT
⊞	EXHAUST FAN (SEE SCHEDULE)	⊞	SUPPLY AIR DUCT
⊞	VERTICAL FAN COIL UNIT (SEE SCHEDULE)	X/X	DUCT INTERNAL DIMENSIONS (WIDTH/DEPTH)
⊞	ROUND FLEX DUCT	⊞	ROUND BRANCH DUCT WITH MANUAL BALANCING DAMPER
⊞	RECTANGULAR DUCT TRANSITION	⊞	ELECTRIC DUCT HEATER (SEE SCHEDULE)

AIR DEVICE SCHEDULE

DESIGNATION	SIZE	MOUNTING	THROW	NECK TYPE	CONSTRUCTION	OPD	MAX NC	FINISH	MANUFACTURER	MODEL
A	24 X 24	LAY-IN	4-WAY	ROUND	ALUMINUM	YES	30	#26 WHITE	TITUS	OMN-AA
B	24 X 24	LAY-IN	-	-	ALUMINUM	NO	30	#26 WHITE	TITUS	50F
C	24 X 12	LAY-IN	-	-	ALUMINUM	NO	30	#26 WHITE	TITUS	50F

LEGEND: CFM (A-200) DESIGNATION

NOTES:

- SIZE SHALL INCLUDE MODULE WITH FULL FACE.
- COORDINATE AIR DEVICE TYPE WITH ARCHITECTURAL CEILING.
- NECK SIZE PER NECK/BRANCH DUCT SIZE CHART.

EXHAUST FAN SCHEDULE

DESIGNATION	EF-1	EF-2
EXHAUST CFM	300	400
EXTERNAL S.P. ("W.G.)	0.375	0.375
MOTOR HP.	135 WATTS	304 WATTS
MOTOR RPM	1153	1075
DRIVE TYPE	DIRECT	DIRECT
FAN TYPE	CENTRIFUGAL	CENTRIFUGAL
MOUNTING LOCATION	CEILING	CEILING
SONES	3.5	3.0
VOLTAGE/PHASE	120/1ø	120/1ø
MANUFACTURER	COOK	COOK
MODEL	GC-520	GC-640
UNIT WEIGHT (LBS)	32	35
REMARKS	1,2,3,4,5	1,2,3,4,5

- REMARKS**
- PROVIDE WITH INTERNAL DISCONNECT.
 - PROVIDE WITH BACK DRAFT DAMPER.
 - PROVIDE WITH FAN SPEED CONTROL.
 - SWITCH WITH LIGHTS.
 - PROVIDE WITH ALUMINUM GRILL.

ELECTRIC DUCT HEATER SCHEDULE

DESIGNATION	SERVING	CFM	CAPACITY BTU/HR	TOTAL K.W.	NO. STAGES	DUCT SIZE L X W	S.P. IN W.G.	VOLTAGE/PHASE	MANUFACTURER	MODEL
EDH-1	AHU-1	3700	29,812	30	2	SEE PLANS	0.1	208/3ø	REDDI	HF
EDH-2	AHU-2	3700	29,812	30	2	SEE PLANS	0.1	208/3ø	REDDI	HF
EDH-3	AHU-3	2600	20,949	21	2	SEE PLANS	0.1	208/3ø	REDDI	HF
EDH-4	AHU-4	2600	20,949	21	2	SEE PLANS	0.1	208/3ø	REDDI	HF

NOTES:

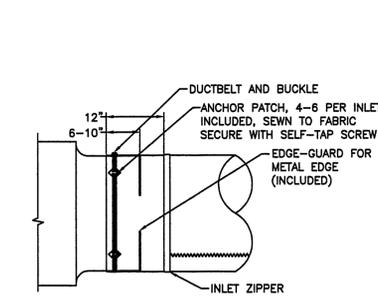
- INSTALL WITH LEFT OR RIGHT OVERHANG, AIR FLOW SWITCH, HEAT SINKS, CIRCUIT FUSING, TRANSFORMER, FLANGED, AND SEQUENCES FOR STAGING.
- INSTALL AS PER MANUFACTURERS RECOMMENDATIONS.
- DUCT HEATER SHALL BE CONTROLLED THRU AHU CONTROLLER.
- COORDINATE AND LOCATE DUCT HEATER AS PER MANUFACTURERS RECOMMENDATIONS.

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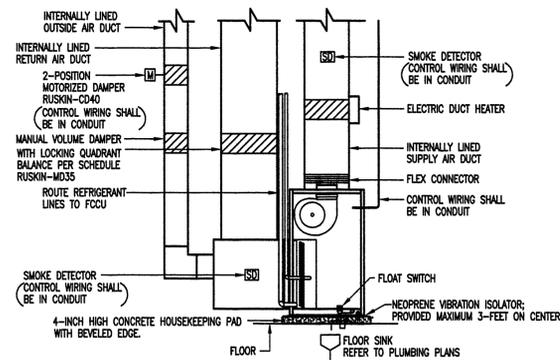


Luis Javier Pena
 03.01.2013

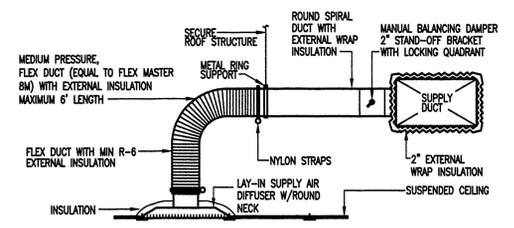
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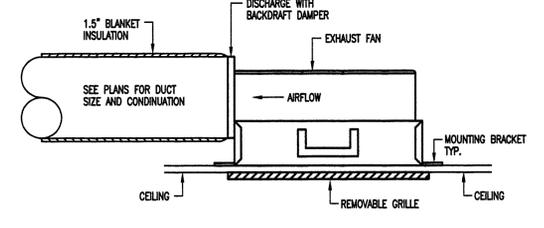
4 INLET ATTACHEMENT DETAIL
 VERTICAL TYPE WITH ZIPPER AND OVERLAP (SCALE: NTS)



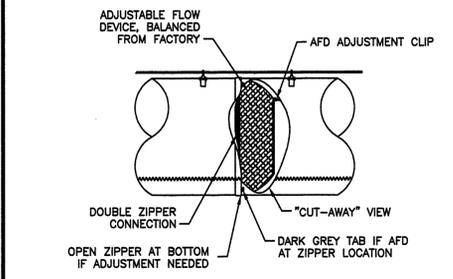
3 VERTICAL FAN COIL
 SCALE: NTS GREENHECK (VFC)



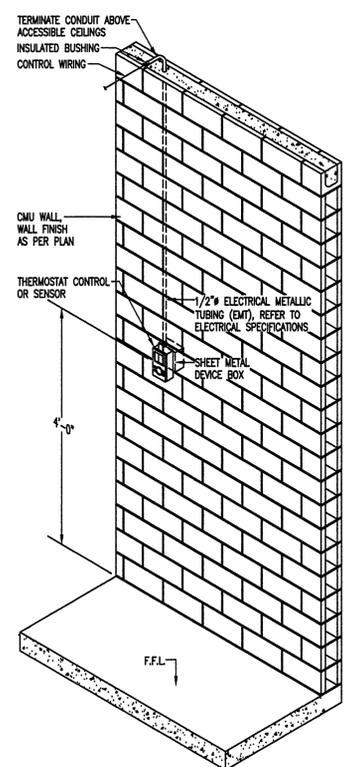
2 SUPPLY AIR DIFFUSER
 SCALE: NTS



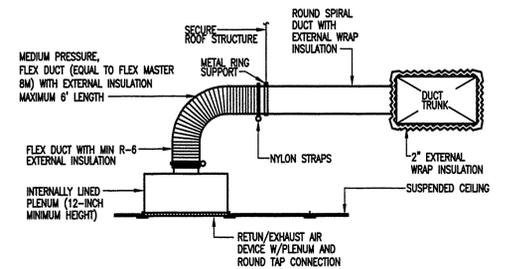
1 CEILING MOUNTED EXHAUST FAN
 SCALE: N.T.S.



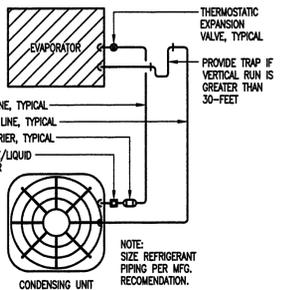
8 ADJUSTABLE FLOW DEVICE (AFD)
 INSTALLED AT ZIPPER LOCATION AT INLET OR AS SPECIFIED IN OTHER LOCATIONS. ZIPPER TO ZIPPER CONNECTION AS SHOWN. EXTERNAL LABEL IDENTIFIES LOCATION.



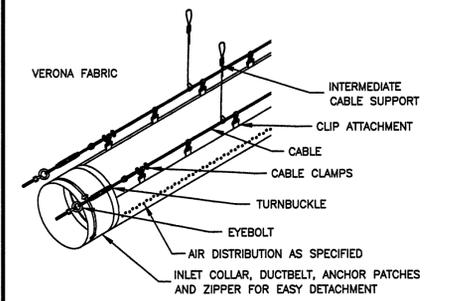
7 MECHANICAL THERMOSTAT/SENSOR ROUGH-IN DETAIL
 SCALE: N.T.S.



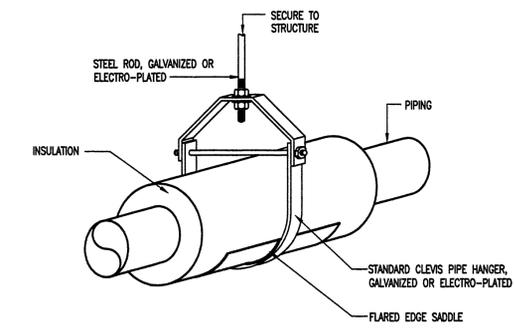
6 RETURN/EXHAUST AIR DEVICE
 SCALE: N.T.S.



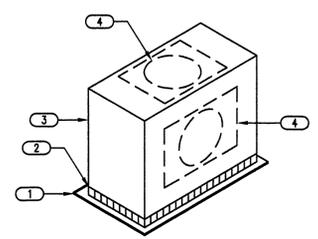
5 REFRIGERANT PIPING DIAGRAM
 SCALE: NTS



9 SUSPENSION DETAIL
 2 ROW CABLE SUSPENSION AT 10&2 O'CLOCK

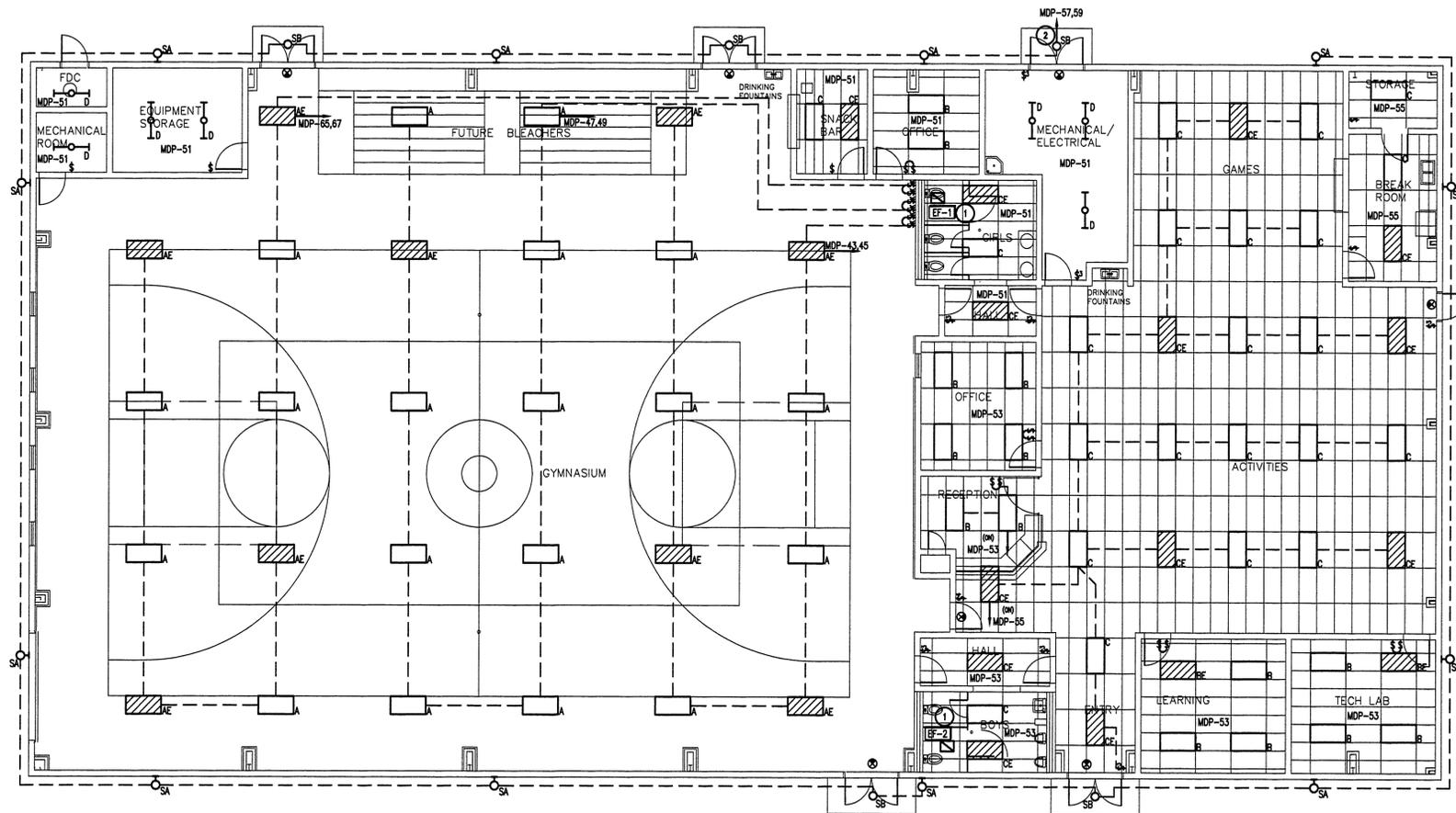


11 PIPE HANGER SADDLE DETAIL
 SCALE: NTS



10 RETURN/EXHAUST AIR DEVICE PLENUM
 SCALE: NTS

- KEY NOTES:**
- 1 CEILING MOUNTED RETURN/EXHAUST AIR GRILLE. SEE PLANS AND SCHEDULE.
 - 2 SECURE 2-INCH INTERNALLY LINED PLENUM TO AIR DEVICE.
 - 3 PLENUM HEIGHT SHALL BE 12-INCHES MINIMUM WITH 2" INTERNAL LINING.
 - 4 PROVIDE ROUND/SQUARE TAP CONNECTION AS REQUIRED.



ELECTRICAL LIGHTING PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

- A. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN (RCP) FOR EXACT LOCATION OF LIGHT FIXTURES. FURNISH FIXTURES WITH TRIM COMPATIBLE WITH THE TYPE OF CEILING AS INDICATED ON THE RCP.
- B. EXIT LIGHTS ARE TYPE X, UNO. CONNECT EXIT LIGHT FIXTURES TO UN-SWITCHED CIRCUIT SERVING SPACE IN WHICH FIXTURE IS INSTALLED. INSTALL WALL MOUNTED FIXTURES 8'-0" AFF, UNO.
- C. COORDINATE PLACEMENT OF FIXTURES WITH ACTUAL INSTALLATION OF MECHANICAL EQUIPMENT AND DUCTWORK.
- D. WHERE TWO LIGHT SWITCHES ARE SHOWN ADJACENT TO EACH OTHER, THE SWITCH NEAREST THE DOOR CONTROLS THE OUTER LAMPS IN ALL THE FIXTURES IN THE SPACE AND THE OTHER SWITCH CONTROLS THE INNER LAMPS IN ALL THE FIXTURES IN THE SPACE, UNO.
- E. CIRCUIT EMERGENCY FIXTURES IN ROOMS TO PERMIT ALL THE LAMPS TO BE SWITCHED OFF, LEAVING THE BATTERY IN STAND BY CONDITION, SO THE EMERGENCY BATTERY UNIT WILL OPERATE ONE LAMP WHEN THE NORMAL POWER IS INTERRUPTED. REQUEST THE REQUIRED WIRING DIAGRAM FROM EQUIPMENT MANUFACTURER. ALL EMERGENCY LIGHTING FIXTURES SHALL BE CIRCUITED TO THE NON-SWITCHED PHASE WIRE IN ADDITION TO THE SWITCHED LEG. ALL EXIT SIGNS SHALL BE CIRCUITED TO THE NON-SWITCHED PHASE WIRE ONLY.
- F. COORDINATE ROUGH-IN LOCATION OF ALL DEVICES WITH ARCHITECTURAL ELEVATIONS, DETAILS, AND PLANS.
- G. ALL DEVICES SHALL SHARE COMMON FACEPLATE WHERE APPLICABLE.
- H. SWITCH LEGS ARE NOT SHOWN WHERE SWITCHING SCHEME IS OBVIOUS.
- I. LIGHT FIXTURES SHALL BE CIRCUITED TO CIRCUIT INDICATED IN SPACE.
- J. FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULE. REFER TO SHEET E3.

KEY NOTES:

- 1 EXHAUST FAN SHALL BE SWITCHED WITH LIGHTS.
- 2 LIGHTING CIRCUIT SHALL BE CONTROLLED VIA THE LIGHTING CONTROLLER WITH A 7-DAY, 24 HOUR, PROGRAMMABLE, ASTRONOMICAL TIME CLOCK AND BY-PASS PHOTOCELL. PHOTOCELL MOUNTED ON BUILDING EXTERIOR ON NORTH WALL FACING EXPOSURE. ROUTE 2 #10, #10G, 1/2"C.



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LOCAL PARK GRANT PROGRAM
PROJECT NUMBER: 51-000065

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FILE NAME:
SHEET:



E1

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ELECTRICAL LEGEND

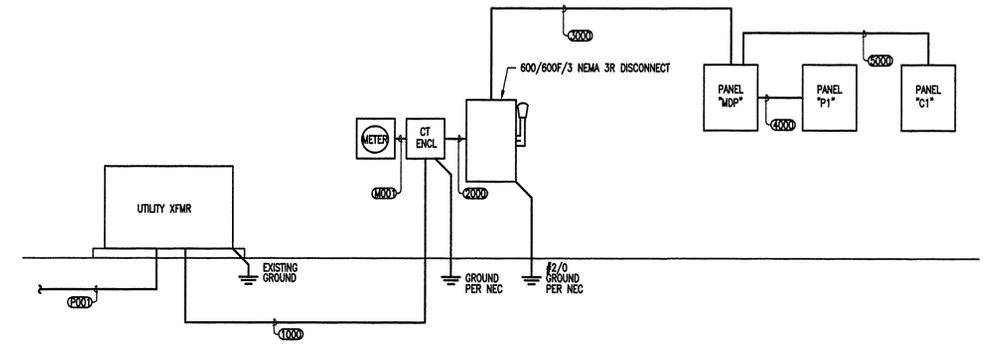
ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS. SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)	SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
[Symbol]	2'x4' FLUORESCENT LIGHT FIXTURE	SEE FIX. SCH.	[Symbol]	FIRE ALARM PULL STATION	48" AFF
[Symbol]	2'x4' FLUORESCENT LIGHT FIXTURE ON BATTERY PACK	SEE FIX. SCH.	[Symbol]	FIRE ALARM AUDIBLE/VISUAL SIGNAL	80" AFF
[Symbol]	INCANDESCENT, FLUORESCENT, OR HID FIXTURE CLG. OR WALL MTD.	SEE FIX. SCH.	[Symbol]	FIRE ALARM AUDIBLE SIGNAL	80" AFF
[Symbol]	EXIT LIGHT, CEILING OR WALL MOUNTED - SHADING INDICATING SINGLE OR DOUBLE FACE. DIRECTIONAL ARROWS AS INDICATED	9" BFC	[Symbol]	FIRE ALARM VISUAL SIGNAL	80" AFF
[Symbol]	WALL SWITCH SPST, 20A/120/277V	48" AFF	[Symbol]	SPEAKER VOICE EVAC SYSTEM	80" AFF
[Symbol]	3-WAY WALL SWITCH, 20A/120/277V	48" AFF	[Symbol]	DOOR HOLDER - REFER TO ARCHITECTURAL DOOR SCHEDULE FOR DOOR ROUGH-IN REQUIREMENTS.	-
[Symbol]	WALL DIMMER SWITCH	48" AFF	[Symbol]	CHIME/STROBE	80" AFF
[Symbol]	ISOLATED GROUND DUPLEX RECEPTACLE - 20A/125V NEMA 5-20R	15" AFF	[Symbol]	BELL/BUZZ	48" AFF
[Symbol]	DUPLEX RECEPTACLE - 20A/125V/1P/3W/G NEMA 5-20R	15" AFF	[Symbol]	GLASS BREAK MOTION SENSOR	-
[Symbol]	DUPLEX RCPT. GF/WATER PROOF - 20A/125V/1P/3W/G NEMA 5-20R	15" AFF	[Symbol]	CAMERA	-
[Symbol]	QUADRI-DUPLEX RECEPTACLE (TWO DUPLEX RCPTS. UNDER ONE COVERPLATE)	15" AFF	[Symbol]	CARD READER - REFER TO DESCRIPTION IN DOOR HARDWARE SPECIFICATION SECTION.	48" AFF
[Symbol]	TELEPHONE/DATA OUTLET, WALL MOUNTED-STUB 3/4" ABOVE ACCESSIBLE CEILING FROM 2 GANG BOX W/1 GANG RETAINER RING.	15" AFF	[Symbol]	FIRE ALARM SMOKE DETECTOR CEILING OR WALL MOUNTED	80" AFF
[Symbol]	TELEPHONE WALL MOUNTED-STUB 3/4" ABOVE ACCESSIBLE CEILING FROM 2 GANG BOX W/1 GANG RETAINER RING.	15" AFF	[Symbol]	HEAT DETECTOR CEILING OR WALL MOUNTED	-
[Symbol]	DATA OUTLET, WALL MOUNTED-STUB 3/4" ABOVE ACCESSIBLE CEILING FROM 2 GANG BOX W/1 GANG RETAINER RING.	15" AFF	[Symbol]	DUCT SMOKE DETECTOR	-
[Symbol]	SMOKE DETECTOR, CEILING OR WALL MOUNTED	9" BFC	[Symbol]	SMOKE DOOR HOLDER	-
[Symbol]	JUNCTION BOX - SIZE & MOUNTING AS REQUIRED	AS RECD.	[Symbol]	FIRE ALARM CONTROL PANEL	-
[Symbol]	RADIO - SIZE & MOUNTING AS REQUIRED	AS RECD.	[Symbol]	FIRE ALARM ANNUNCIATOR PANEL	-
[Symbol]	TELEVISION OUTLET, CLG. OR WALL MOUNTED - STUB 1" C. ABOVE CEILING FROM OUTLET BOX	-	[Symbol]	P.A. SPEAKER, CEILING OR WALL MOUNTED	9" BFC
[Symbol]	DISCONNECT SWITCH - 30/-/3 INDICATES 30A, 3-POLE, NONFUSED; 30/30/3 INDICATES 30A, 3-POLE, 30A FUSE	AS RECD.	[Symbol]	MICROPHONE OUTLET	-
[Symbol]	DISCONNECT SWITCH - 30/30/3 INDICATES 30A, 3-POLE, 30A FUSE	AS RECD.	[Symbol]	FIRE ALARM SPRINKLER FLOW SWITCH	-
[Symbol]	PANELBOARD	-	[Symbol]	FIRE ALARM SPRINKLER TAMPER SWITCH	-
[Symbol]	SINGLE LINE CONTINUATION	-	[Symbol]	FIRE ALARM SPRINKLER PRESSURE SWITCH	-
[Symbol]	CIRCUIT HOME RUN TO PANELBOARD (2 #12, 1 #12G, 3/4", 20A/1P CB UNO)	-	[Symbol]	MOTOR	-
[Symbol]	THREE SINGLE POLE DEVICE CIRCUIT NUMBERS	-	[Symbol]	2'x2' FLUORESCENT LIGHT FIXTURE	SEE FIX. SCH.
[Symbol]	MOTION DETECTOR	-	[Symbol]	2'x2' FLUORESCENT LIGHT FIXTURE ON EMERGENCY CIRCUIT	SEE FIX. SCH.
[Symbol]	DOOR CONTACT	-	[Symbol]	FLUORESCENT STRIP LIGHT	SEE FIX. SCH.
[Symbol]	SECURITY KEYPAD	-	[Symbol]	1'x4' FLUORESCENT LIGHT FIXTURE	SEE FIX. SCH.
[Symbol]	INCANDESCENT, FLUORESCENT, OR HID WALL WASHER LIGHT FIXTURE, CEILING MTD.	-	[Symbol]	TRACK LIGHT	SEE FIX. SCH.
[Symbol]	ABS ABOVE BACK SPLASH	BFC	[Symbol]	INCANDESCENT, FLUORESCENT, OR HID WALL WASHER LIGHT FIXTURE, CEILING MTD.	SEE FIX. SCH.
[Symbol]	AFF ABOVE FINISHED FLOOR	GFI	[Symbol]	UNDERGROUND	UNLESS NOTED OTHERWISE
[Symbol]	GROUND FAULT INTERRUPTER	UG	[Symbol]	WEATHERPROOF	CONDUIT
[Symbol]	BELOW FINISHED CEILING	UNO(UN.O.)	[Symbol]	CIRCUIT BREAKER	EXISTING
[Symbol]	WIRE GUARD	WG	[Symbol]	WIRE GUARD	WG

NOTES:
1. 48" AFF INDICATES TO TOP OF DEVICE.
15" AFF INDICATES TO BOTTOM OF DEVICE.
ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.

ELECTRICAL LEGEND

SCALE: N.T.S.



ELECTRICAL RISER DIAGRAM

SCALE: N.T.S.

FEEDER / BRANCH CIRCUIT SCHEDULE

MARK	RACEWAY	PHASE CONDUCTORS	NEUTRAL CONDUCTORS	GROUND CONDUCTORS	REMARKS
P001	4"	---	---	1#4	---
M001	1-1/4"	---	---	1#4	---
1000	2"	3#5/0	1#5/0	1#1	THREE PARALLEL FEEDERS REQUIRED
3000	2"	3#5/0	1#5/0	1#1	THREE PARALLEL FEEDERS REQUIRED
4000	1 1/2"	3#3	1#3	1#8	---
5000	1 1/2"	3#2	1#3/0	1#8	---

ELECTRICAL FEEDER/BRANCH CIRCUIT SCHEDULE

SCALE: N.T.S.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

MECHANICAL EQUIPMENT	CIRCUIT DESIGNATION	LOCATION	NOTES	DISCONNECTING MEANS AND/OR BRANCH CIRCUIT SIZE
AHU-1	MDP-1,3,5	MECHANICAL/ELECTRICAL	1,2	FVNR NEMA SIZE 0 COMB STARTER, ENCL. 3#12, #12G, 3/4"C
AHU-2	MDP-7,9,11	MECHANICAL/ELECTRICAL	1,2	FVNR NEMA SIZE 0 COMB STARTER, ENCL. 3#12, #12G, 3/4"C
AHU-3	MDP-13,15,17	MECHANICAL/ELECTRICAL	1,2	FVNR NEMA SIZE 0 COMB STARTER, ENCL. 3#12, #12G, 3/4"C
AHU-4	MDP-19,21,23	MECHANICAL/ELECTRICAL	1,2	FVNR NEMA SIZE 0 COMB STARTER, ENCL. 3#12, #12G, 3/4"C
ACCU-1	MDP-2,4,6	EXTERIOR		80/-/3 NEMA 3R DISCONNECT, 3#6, #10G, 3/4"C
ACCU-2	MDP-8,10,12	EXTERIOR		80/-/3 NEMA 3R DISCONNECT, 3#6, #10G, 3/4"C
ACCU-3	MDP-14,16,18	EXTERIOR		80/-/3 NEMA 3R DISCONNECT, 3#6, #10G, 3/4"C
ACCU-4	MDP-20,22,24	EXTERIOR		80/-/3 NEMA 3R DISCONNECT, 3#6, #10G, 3/4"C
EDH-1	MDP-44,46,48	MECHANICAL/ELECTRICAL		200/-/3 DISCONNECT, 3#1, #6, 1-1/4"C
EDH-2	MDP-50,52,54	MECHANICAL/ELECTRICAL		200/-/3 DISCONNECT, 3#1, #6, 1-1/4"C
EDH-3	MDP-56,58,60	MECHANICAL/ELECTRICAL		100/-/3 DISCONNECT, 3#5, #8, 1-1/4"C
EDH-4	MDP-62,64,66	MECHANICAL/ELECTRICAL		100/-/3 DISCONNECT, 3#5, #8, 1-1/4"C
EF-1	MDP-51	GIRLS RESTROOM	3	2#12, #12G, 1/2"C
EF-2	MDP-53	BOYS RESTROOM	3	2#12, #12G, 1/2"C
WH-1	MDP-61,63	MECHANICAL/ELECTRICAL		30/-/2 DISCONNECT, 2#10, #10G, 1/2"C

GENERAL NOTES:
A. ALL DISCONNECTS AND COMBINATION STARTERS ARE NEMA 1 ENCLOSED, UNO.
NOTES:
1. FURNISH AND INSTALL DUCT SMOKE DETECTOR AT SUPPLY DUCT. FURNISH AND INSTALL RELAY FOR SHUT DOWN CONTROL.
2. COMBINATION STARTER SHALL BE FURNISHED WITH (HOA) HAND OFF AUTO.
3. EXHAUST FAN SHALL BE CIRCUIT CIRCUITED WITH LIGHT FIXTURES.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

SCALE: N.T.S.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER & MODEL #	LAMPS/TEMP/VA	VOLTAGE	REMARKS
A	2' X 4' FLUORESCENT HIGH BAY WITH BROAD DISTRIBUTION WIRE GUARD IN DOOR FRAME ELECTRONIC BALLAST	LITHONIA #FGB24 654TSHO B1 X20 NLWG MVOLT 2/3 GEB10PS	6-F54TSHO 3500K 365	120/277	1
AE	2' X 4' FLUORESCENT HIGH BAY WITH BROAD DISTRIBUTION WIRE GUARD IN DOOR FRAME EMERGENCY BATTERY PACK	LITHONIA #FGB24 654TSHO B1 X20 NLWG MVOLT 2/3 GEB10PS EL14	6-F54TSHO 3500K 365	120/277	1
B	2' X 4' LAY-IN TROFFER WITH NOMINAL 0.125" THICK PATTERN ACRYLIC LENS	LITHONIA #2GT8332A12125MMVOLTGEB10IS	3-F32TB 3500K 88	120/277	1
BE	2' X 4' LAY-IN TROFFER WITH NOMINAL 0.125" THICK PATTERN ACRYLIC LENS EMERGENCY BATTERY PACK	LITHONIA #2GT8332A12125MMVOLTGEB10ISEL14	3-F32TB 3500K 88	120/277	1
C	2' X 4' LAY-IN TROFFER WITH NOMINAL 0.125" THICK PATTERN ACRYLIC LENS	LITHONIA #2GT8F232A12125120GEB10IS	2-F32TB 3500K 58	120/277	
CE	2' X 4' LAY-IN TROFFER WITH NOMINAL 0.125" THICK PATTERN ACRYLIC LENS	LITHONIA #2GT8F232A12125120GEB10ISEL14	2-F32TB 3500K 58	120/277	
D	4' STRIPLIGHT WITH WIRE GUARD	LITHONIA #C232MMVOLTGEB WGCUN	2-F32TB 3500K 58	120/277	
SA	CAST WALL PACK WITH GLASS REFRACTOR	LITHONIA #TWH175MHTB	1-175W MH 220	120/277	
SB	6" ENCLOSED CYLINDER HORIZONTAL LAMP FLAT FRESNEL LENS WET LOCATION LISTED	GOTHAM #CFL10 1/42TRTRGFFLMVOLTXX	1-42TRT 50	120/277	
X	UNIVERSAL EXIT LIGHT WITH BATTERY PACK, NUMBER OF FACES AND DIRECTIONAL CHEVRONS AS INDICATED ON THE DRAWINGS WIRE GUARD	LITHONIA #LQMSW3R120/277ELN ELA WGEK	LED'S FURNISHED 10	120/277	

REMARKS:
1. LIGHT FIXTURES SHALL BE FURNISHED WITH DUAL BALLAST WHERE TWO SWITCHES INDICATED ON PLAN.

ELECTRICAL LIGHTING FIXTURE SCHEDULE

SCALE: N.T.S.

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 LOCAL PARK GRANT PROGRAM
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Abraham L. Dominguez
 03.01.2013

DATE: 03.01.13
 DRAWN BY: M.G.
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PANELBOARD MDP - Section 1

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE LOCATION: ROOM
 600 A MAIN LUGS ONLY MOUNTING: SURFACE
 BUSES: MAIN - 600 A; NEUTRAL - 100K; EQUIPMENT GROUND; ISOLATED GROUND IEC = 22,000 A RMS SYM AVAILABLE

VAL	VAR	VAO	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VAL	VAR	VAO
132			132 AHU-1	20/3	1	A	2	60/3	ACCU-1*			
132			132		3	B	4					
132			132		5	C	6					
132			132 AHU-2	20/3	7	A	8	60/3	ACCU-2*			
132			132		9	B	10					
132			132		11	C	12					
828			828 AHU-3	20/3	13	A	14	60/3	ACCU-3*			
828			828		15	B	16					
828			828		17	C	18					
828			828 AHU-4	20/3	19	A	20	60/3	ACCU-4*			
828			828		21	B	22					
828			828		23	C	24					
			SPARE	20/1	25	A	26	20/1	SPARE			
			SPARE	20/1	27	B	28	20/1	SPARE			
			SPARE	20/1	29	C	30	20/1	SPARE			
			SPARE	20/1	31	A	32	20/1	SPACE			
			SPARE	20/1	33	B	34	20/1	SPACE			
			SPARE	20/1	35	C	36	20/1	SPACE			
			SPARE	20/1	37	A	38	20/1	SPACE			
			SPARE	20/1	39	B	40	20/1	SPACE			
			SPARE	20/1	41	C	42	20/1	SPACE			

PANELBOARD MDP - Section 2

1647			LIGHTING	20/1	43	A	44	125/3	EDN-1			10000
1647				20/1	45	B	46					10000
1830			LIGHTING	20/1	47	C	48					10000
1830				20/1	49	A	50	125/3	EDN-2			10000
1552			135 LIGHTING/EF-1	20/1	51	B	52					10000
1408			304 LIGHTING/EF-2	20/1	53	C	54					10000
1566			LIGHTING	20/1	55	A	56	80/3	EDN-3			7000
898			EXTERIOR LIGHTING	20/2	57	B	58					7000
898					59	C	60					7000
			2250 WH-1	30/2	61	A	62	80/3	EDN-4			7000
			2250		63	B	64					7000
1647			LIGHTING	20/2	65	C	66					7000
1647					67	A	68	20/1	SPARE			
			1800 CEILING FANS	20/1	69	B	70	20/1	SPARE			
			SPARE	20/1	71	C	72	20/1	SPARE			
			SPARE	20/1	73	A	74	20/1	SPACE			
			SPARE	20/1	75	B	76	20/1	SPACE			
			SPARE	20/1	77	C	78	20/1	SPACE			
5220			5500 PANEL P1	100/3	79	A	80	100/3	PANEL C1	1440	360	
5220			5500		81	B	82			1260	1000	
1620			4860		83	C	84			1440	500	

*NONCONCIDENTAL LOAD

VAL (LIGHTING)	16568	CONNECTED	20710	DEMAND
VAR (RECEPTACLES)	18200	CONNECTED	13100	DEMAND
VAO (OTHER)	13859	CONNECTED	13859	DEMAND
VA: TOTAL	171627	CONNECTED	172669	DEMAND
AMPS: TOTAL	476	CONNECTED	479	DEMAND

L	R	O	TOTAL
6590	8660	46410	59760 VA =
4097	4460	48485	9602 VA =
5781	3060	43964	52805 VA =
16568	18200	13859	52627 VA =
			440 AMPS CONNECTED TO A PHASE @ 120 VOLTS
			482 AMPS CONNECTED TO B PHASE @ 120 VOLTS
			440 AMPS CONNECTED TO C PHASE @ 120 VOLTS
			TOTAL 171627 VA

PANELBOARD P1

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE LOCATION: ROOM
 100 A MAIN LUGS ONLY MOUNTING: SURFACE
 BUSES: MAIN - 100 A; NEUTRAL - 100K; EQUIPMENT GROUND IEC = 10,000 A RMS SYM AVAILABLE

VAL	VAR	VAO	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VAL	VAR	VAO
720			RECEPTACLES	20/1	1	A	2	20/1	RECEPTACLES	900		
800			RECEPTACLES	20/1	3	B	4	20/1	RECEPTACLES	720		
			500 RECEPTACLES SCORE BOARD CONT	20/1	5	C	6	20/1	MOTORIZED SCREEN			500
			500 RECEPTACLES SCORE BOARD CONT	20/1	7	A	8	20/1	RECEPTACLES	1080		
			500 RECEPTACLES SCORE BOARD CONT	20/1	9	B	10	20/1	RECEPTACLES	720		
			500 RECEPTACLES SCORE BOARD CONT	20/1	11	C	12	20/1	RECEPTACLES	900		
720			RECEPTACLES	20/1	13	A	14	50/2	RANGE			4000
720			RECEPTACLES	20/1	15	B	16					4000
			1200 EWC	20/1	17	C	18	20/1	HOOD			360
360			RECEPTACLES	20/1	19	A	20	20/1	REFRIGERATOR			900
540			RECEPTACLES	20/1	21	B	22	20/1	RECEPTACLES			500
720			RECEPTACLES	20/1	23	C	24	20/1	RECEPTACLES			500
720			RECEPTACLES	20/1	25	A	26	20/1	RECEPTACLES			720
800			RECEPTACLES	20/1	27	B	28	20/1	RECEPTACLES			720
			1200 EWC	20/1	29	C	30	20/1	SCOREBOARD			100
			SPARE	20/1	31	A	32	20/1	SCOREBOARD			100
			SPARE	20/1	33	B	34	20/1	SPARE			
			SPARE	20/1	35	C	36	20/1	SPARE			
			SPARE	20/1	37	A	38	20/1	SPACE			
			SPARE	20/1	39	B	40	20/1	SPACE			
			SPARE	20/1	41	C	42	20/1	SPACE			

VAL (LIGHTING)	CONNECTED	DEMAND		
VAR (RECEPTACLES)	12060	CONNECTED	11030	DEMAND
VAO (OTHER)	15360	CONNECTED	15360	DEMAND
VA: TOTAL	27420	CONNECTED	26390	DEMAND
AMPS: TOTAL	76	CONNECTED	73	DEMAND

L	R	O	TOTAL
5220	5000		10220 VA =
5220	5000		10220 VA =
1620	4860		6480 VA =
12060	15360		27420 VA
			89 AMPS CONNECTED TO A PHASE @ 120 VOLTS
			85 AMPS CONNECTED TO B PHASE @ 120 VOLTS
			54 AMPS CONNECTED TO C PHASE @ 120 VOLTS

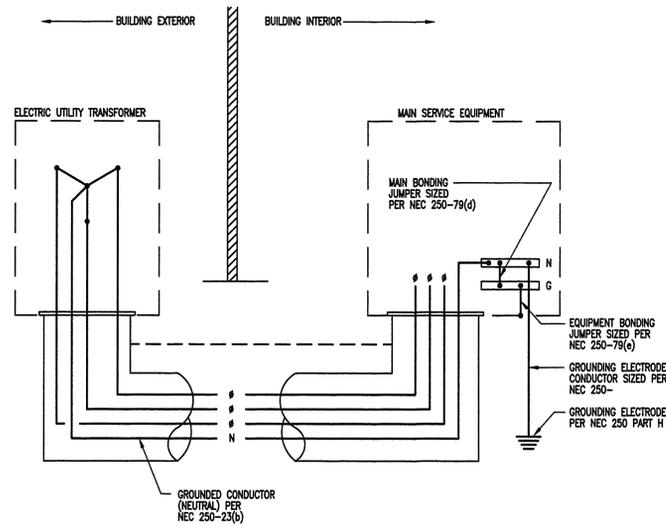
PANELBOARD C1

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE LOCATION: ROOM
 100 A MAIN LUGS ONLY MOUNTING: SURFACE
 BUSES: MAIN - 100 A; NEUTRAL - 200K; EQUIPMENT GROUND; ISOLATED GROUND; TVSS PANELBOARD IEC = 10,000 A RMS SYM AVAILABLE

VAL	VAR	VAO	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VAL	VAR	VAO
360			COMPUTERS	20/1	1	A	2	20/1	COMPUTERS	360		
540			COMPUTERS	20/1	3	B	4	20/1	COMPUTERS	360		
360			COMPUTERS	20/1	5	C	6	20/1	COMPUTERS	360		
			360 FACP	20/1	7	A	8	20/1	COMPUTERS	360		
			500 COMPUTERS	20/1	9	B	10	20/1	COMPUTERS	360		
			500 COMPUTERS	20/1	11	C	12	20/1	COMPUTERS	360		
360			COMPUTERS	20/1	13	A	14	20/1	SPARE			
			500 PROJECTOR	20/1	15	B	16	20/1	SPARE			
360			COMPUTERS	20/1	17	C	18	20/1	SPARE			
			SPARE	20/1	19	A	20	20/1	SPACE			
			SPARE	20/1	21	B	22	20/1	SPACE			
			SPARE	20/1	23	C	24	20/1	SPACE			
			SPARE	20/1	25	A	26	20/1	SPACE			
			SPARE	20/1	27	B	28	20/1	SPACE			
			SPARE	20/1	29	C	30	20/1	SPACE			
			SPARE	20/1	31	A	32	20/1	SPACE			
			SPARE	20/1	33	B	34	20/1	SPACE			
			SPARE	20/1	35	C	36	20/1	SPACE			
			SPARE	20/1	37	A	38	30/3	TVSS			
			SPARE	20/1	39	B	40					
			SPARE	20/1	41	C	42					

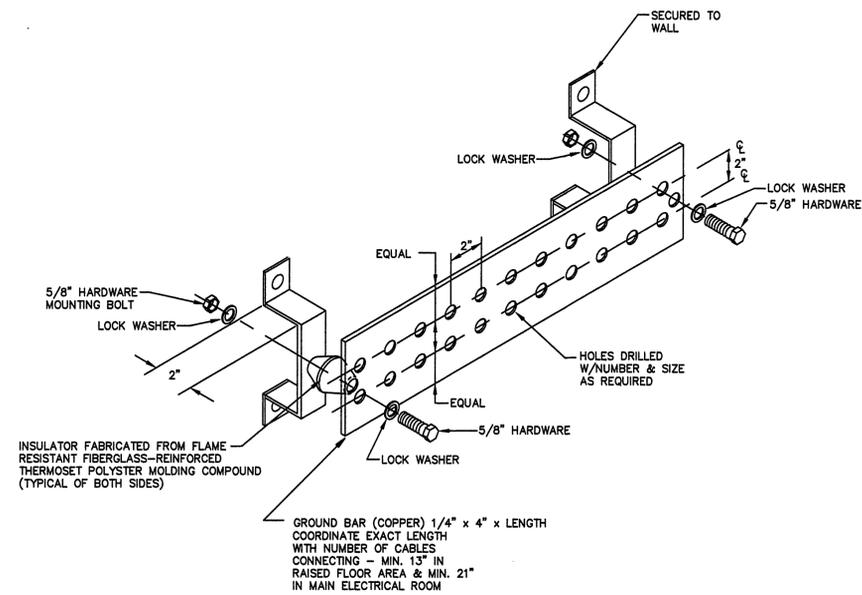
VAL (LIGHTING)	CONNECTED	DEMAND		
VAR (RECEPTACLES)	4140	CONNECTED	4140	DEMAND
VAO (OTHER)	1860	CONNECTED	1860	DEMAND
VA: TOTAL	6000	CONNECTED	6000	DEMAND
AMPS: TOTAL	17	CONNECTED	17	DEMAND

L	R	O	TOTAL
1440	360		1800 VA =
1260	1000		2260 VA =
1440	500		1940 VA =
4140	1860		6000 VA
			15 AMPS CONNECTED TO A PHASE @ 120 VOLTS
			19 AMPS CONNECTED TO B PHASE @ 120 VOLTS
			16 AMPS CONNECTED TO C PHASE @ 120 VOLTS



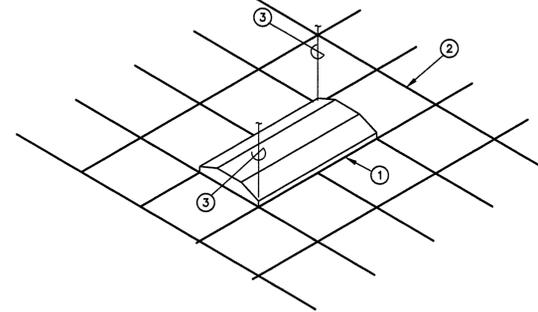
SERVICE ENTRANCE (MAIN SWITCHBOARD) GROUNDING DETAIL

SCALE: N.T.S.



WALL MOUNTED SINGLE-POINT GROUND BAR DETAIL

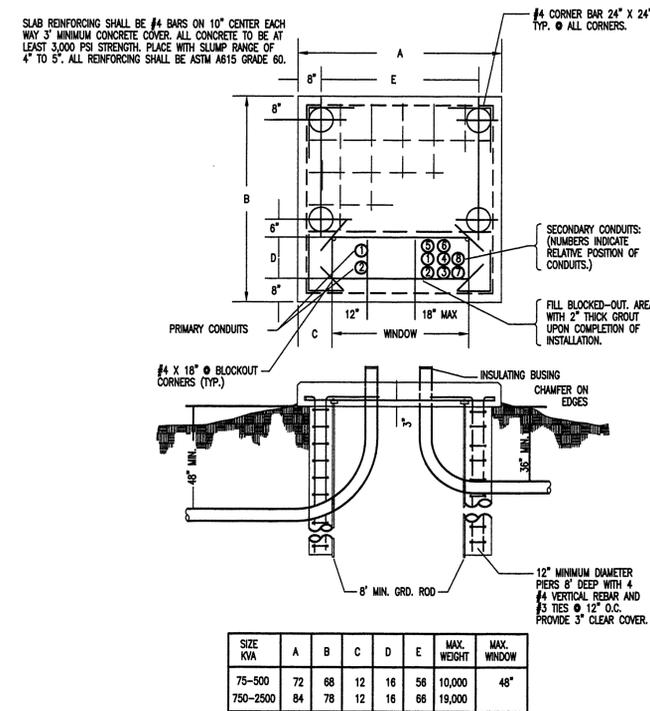
SCALE: N.T.S.



NOTES BY SYMBOL "O"	
1	2'x 4' LAY-IN FLUORESCENT FIXTURE
2	SUSPENDED CEILING
3	THE WIRE, CONNECT TO TWO CORNERS OF FIXTURE TO STRUCTURE ABOVE, INDEPENDENT OF CEILING SUPPORTS.

TYPICAL LAY-IN FIXTURE SUPPORT

SCALE: N.T.S.



TRANSFORMER PAD DETAIL

SCALE: N.T.S.

AGA

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BOYS & GIRLS CLUB RECREATION CENTER
 WESLACO, TEXAS
 TEXAS PARKS AND WILDLIFE DEPARTMENT
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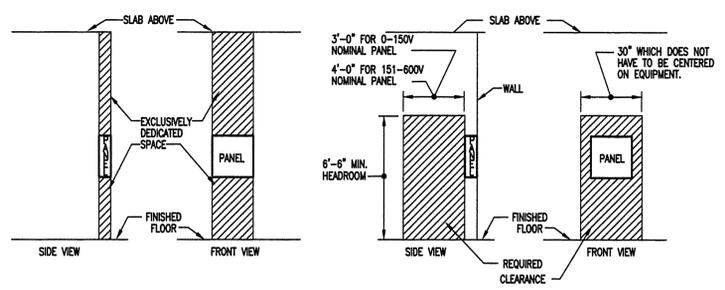
MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
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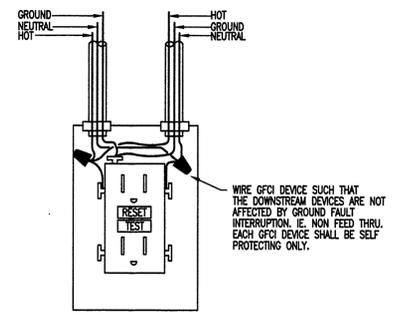


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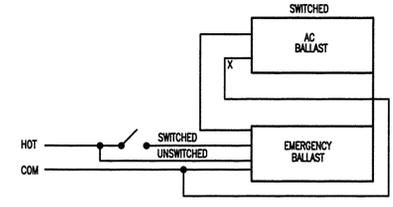
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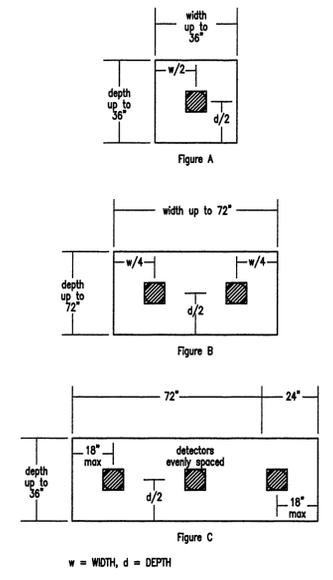
**TYPICAL PANELBOARD
 REQUIRED CLEARANCE**
 SCALE: N.T.S.



**GFCI RECEPTACLE -
 WIRING DIAGRAM**
 SCALE: N.T.S.



**EMERGENCY BALLAST
 WIRING DETAIL**
 SCALE: N.T.S.



NOTES:
 INSTALL PENDANT MOUNTED IONIZATION DETECTORS LISTED FOR THE AIR VELOCITY PRESENT AT THE OPENING WHERE THE RETURN AIR ENTERS THE COMMON RETURN AIR SYSTEM. THE DETECTORS SHALL BE INSTALLED UP TO 12 INCHES MAXIMUM IN FRONT OF THE OPENING AND SPACED ACCORDING TO THE FOLLOWING OPENING DIMENSIONS.

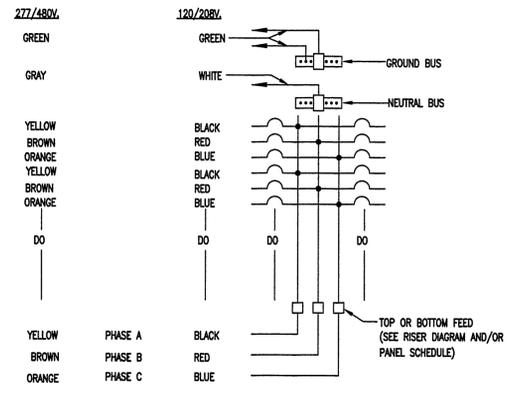
(1) WIDTH:
 UP TO 36 IN. - ONE DETECTOR CENTERED IN OPENING (FIGURE A)
 UP TO 72 IN. - TWO DETECTORS LOCATED AT THE 1/4 POINTS OF THE OPENING (FIGURE B)
 OVER 72 IN. - ONE ADDITIONAL DETECTOR FOR EACH FULL 24 IN. OF OPENING (FIGURE C)

(2) DEPTH:
 THE NUMBER AND SPACING OF THE DETECTOR(S) IN THE DEPTH (VERTICAL) OF THE OPENING SHALL BE THE SAME AS THOSE GIVEN FOR THE WIDTH (HORIZONTAL) ABOVE.

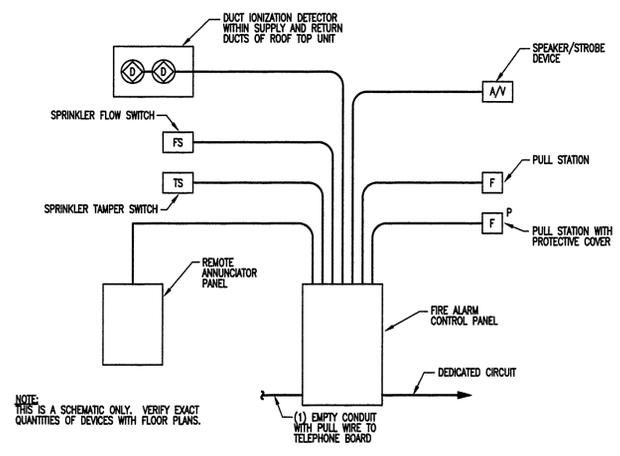
(3) ORIENTATION:
 DETECTORS SHALL BE ORIENTED IN THE MOST FAVORABLE POSITION FOR SMOKE ENTRY WITH RESPECT TO THE DIRECTION OF AIR FLOW.

DETECTORS FOR RETURN AIR BAFFLE WALLS SHALL BE MOUNTED LOW BETWEEN BAFFLE WALLS SO AS TO BE VISIBLE FROM WITHIN THE MECHANICAL SPACE. PROVIDE REMOTE TEST STATIONS AS REQUIRED.

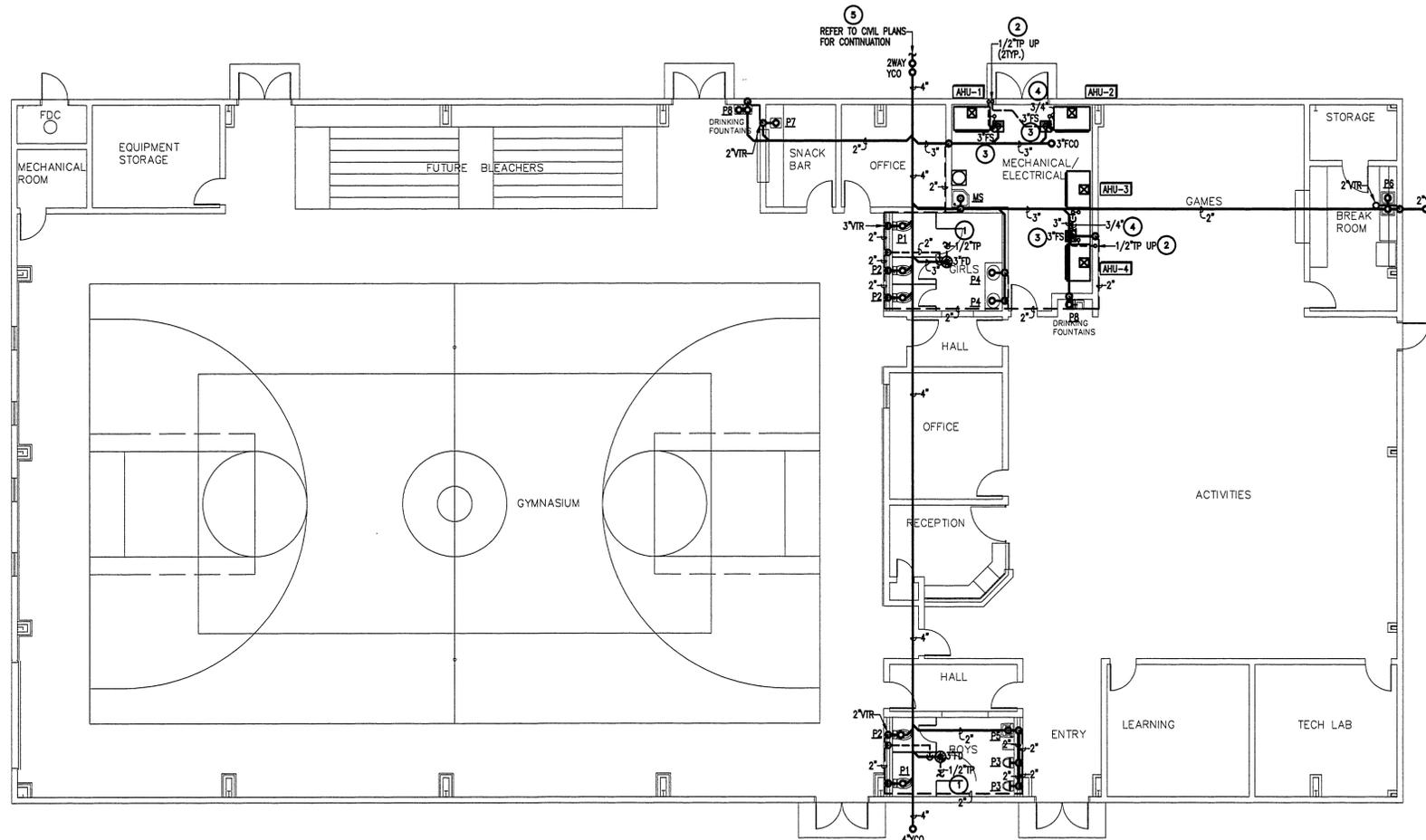
**LOCATION OF IONIZATION DETECTOR
 (S) IN RETURN AIR SYSTEM**
 SCALE: N.T.S.



TYPICAL PANEL COLOR DETAIL
 SCALE: N.T.S.



**FIRE ALARM
 RISER DIAGRAM**
 SCALE: N.T.S.



PLUMBING CONTRACTOR SHALL COORDINATE DOMESTIC WATER AND SANITARY SEWER LINE DIRECTION OF FLOW, SIZE, INVERT, AND POINT OF CONNECTION WITH EXISTING CONDITIONS PRIOR TO INSTALLATION OF ROUGH-IN TO AVOID CONFLICT. ANY DISCREPANCIES FOUND BY THE PLUMBING CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.

GENERAL NOTES: ()

- (A) INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE ENGINEER.
- (B) PLUMBING CONTRACTOR SHALL ADHERE TO ALL CITY CODES, STATE CODES AND LOCAL CODES THAT HAVE AUTHORITY OVER THIS PROJECT.
- (C) PLUMBING CONTRACTOR SHALL TERMINATE ALL WATER ROUGH-IN WITH SHUT-OFF VALVES BEFORE CONNECTING TO EQUIPMENT AND RELATED FIXTURES.
- (D) PLUMBING CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR ANY INSTALLATION OF PIPING AND DUCTWORK PRIOR TO BEGINNING OF CONSTRUCTION.
- (E) INSULATE T^o TRAPS AND SUPPLIES AT HANDICAP LAVATORIES WITH INSULATION KIT.
- (F) PROVIDE VACUUM BREAKER TO ALL FIXTURES WITH HOSE CONNECTION AND APPLIANCES WITH DIRECT CONNECTIONS TO DOMESTIC WATER.
- (G) REFER TO ARCHITECTS DRAWINGS FOR MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES.
- (H) PROVIDE CEILING ACCESS PANEL FOR WATER ISOLATION VALVES, IN OTHERWISE INACCESSIBLE AREAS. PROVIDE LOCKABLE HINGED ACCESS PANELS IN PUBLIC AREAS. PAINT PANELS TO MATCH SURROUNDING SURFACE.

KEY NOTES: ○

- ① PROVIDE TRAP PRIMER CONNECTION FROM NEAREST FLUSH VALVE TRAP PRIMER, REFER TO DETAIL.
- ② REFER TO HW/CW FLOOR PLAN FOR CONTINUATION OF PRIMER LINE AND TRAP PRIMER LOCATION ABOVE CEILING.
- ③ COORDINATE FLOOR SINK LOCATION AND REQUIREMENTS WITH MECHANICAL CONTRACTOR FOR FINAL EQUIPMENT LOCATIONS PRIOR TO COMMENCEMENT OF WORK TO AVOID CONFLICT.
- ④ ROUTE FULL SIZE CONDENSATE DRAIN LINE TO NEAREST FLOOR SINK.
- ⑤ PLUMBING CONTRACTOR SHALL VERIFY POINT OF CONNECTION TO BUILDING UTILITIES PRIOR TO BID TO AVOID CONFLICT. ANY DISCREPANCIES FOUND BY THE PLUMBING CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.



PLUMBING SEWER PLAN

SCALE: 1/8" = 1'-0"



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BOYS & GIRLS CLUB RECREATION CENTER

WESLACO, TEXAS

TEXAS PARKS AND WILDLIFE DEPARTMENT
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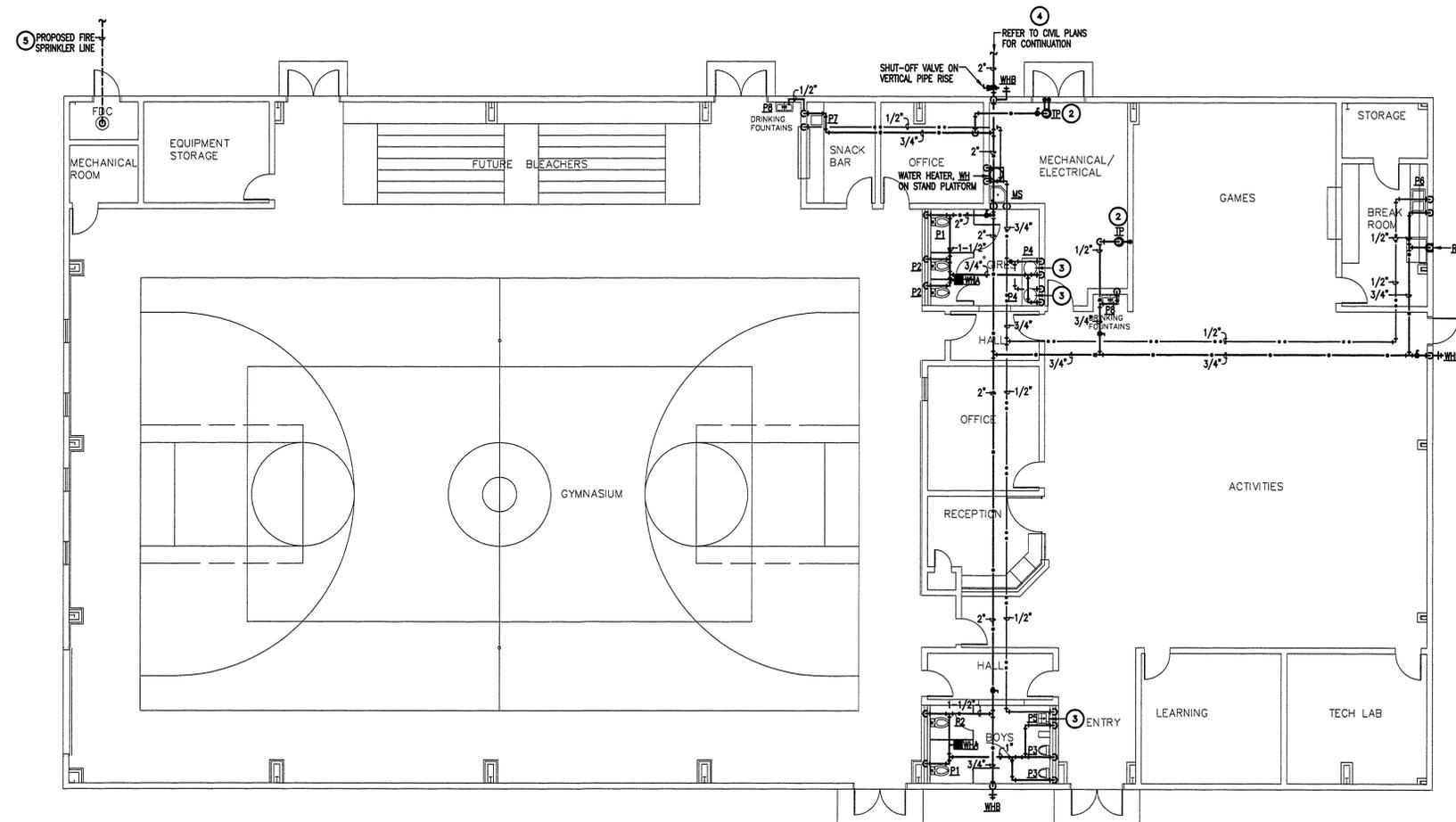
Luis Javier Pena
 03.01.2013

DATE: 03.01.13
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P1



PLUMBING CONTRACTOR SHALL COORDINATE DOMESTIC WATER AND SANITARY SEWER LINE DIRECTION OF FLOW, SIZE, INVERT, AND POINT OF CONNECTION WITH EXISTING CONDITIONS PRIOR TO INSTALLATION OF ROUGH-IN TO AVOID CONFLICT. ANY DISCREPANCIES FOUND BY THE PLUMBING CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.

- GENERAL NOTES:** ()
- (A) INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED TO THE ENGINEER.
 - (B) PLUMBING CONTRACTOR SHALL ADHERE TO ALL CITY CODES, STATE CODES AND LOCAL CODES THAT HAVE AUTHORITY OVER THIS PROJECT.
 - (C) PLUMBING CONTRACTOR SHALL TERMINATE ALL WATER ROUGH-IN WITH SHUT-OFF VALVES BEFORE CONNECTING TO EQUIPMENT AND RELATED FIXTURES.
 - (D) PLUMBING CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR ANY INSTALLATION OF PIPING AND DUCTWORK PRIOR TO BEGINNING OF CONSTRUCTION.
 - (E) INSULATE "P" TRAPS AND SUPPLIES AT HANDICAP LAVATORIES WITH INSULATION KIT.
 - (F) PROVIDE VACUUM BREAKER TO ALL FIXTURES WITH HOSE CONNECTION AND APPLIANCES WITH DIRECT CONNECTIONS TO DOMESTIC WATER.
 - (G) REFER TO ARCHITECTS DRAWINGS FOR MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES.
 - (H) PROVIDE CEILING ACCESS PANEL FOR WATER ISOLATION VALVES, IN OTHERWISE INACCESSIBLE AREAS. PROVIDE LOCKABLE HINGED ACCESS PANELS IN PUBLIC AREAS. PAINT PANELS TO MATCH SURROUNDING SURFACE.

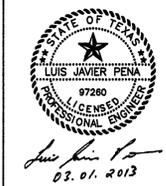
- KEY NOTES:** ○
- 1 BUILDING SHUT-OFF VALVE IN CAST BOX. INSTALL FLUSH WITH FINISH GRADE.
 - 2 TRAP PRIMER WITH 1/2" LINE LOCATED ABOVE CEILING. REFER TO DETAIL.
 - 3 FIXTURE SHALL BE PROVIDED WITH THERMOSTATIC MIXING VALVE LOCATED UNDER PLUMBING FIXTURE EQUAL TO A LEONARD MODEL 170 WITH COLD WATER BY-PASS AND MOUNTING BRACKET. REFER TO DETAIL.
 - 4 PLUMBING CONTRACTOR SHALL VERIFY POINT OF CONNECTION TO BUILDING UTILITIES PRIOR TO BID TO AVOID CONFLICT. ANY DISCREPANCIES FOUND BY THE PLUMBING CONTRACTOR SHALL BE REPORTED TO THE ENGINEER/ARCHITECT IMMEDIATELY AND PRIOR TO ANY INSTALLATION. FAILURE TO COMPLY SHALL MAKE ALL CORRECTIONS AND/OR MODIFICATIONS THE FULL RESPONSIBILITY OF THE CONTRACTOR.
 - 5 PROPOSED FIRE SPRINKLER SUPPLY LINE. FIRE DEPARTMENT CONNECTION AND PIPE SHALL BE SIZED BY A LICENSED FIRE SPRINKLER DESIGNER. DESIGNER SHALL COORDINATE WITH ALL OTHER TRADES FOR WATER SUPPLY LINE REQUIREMENTS AND FIRE DEPARTMENT CONNECTION TO MEET CITY INSTALLATION REQUIREMENTS.

 **PLUMBING HW/CW PLAN**
SCALE: 1/8" = 1'-0"

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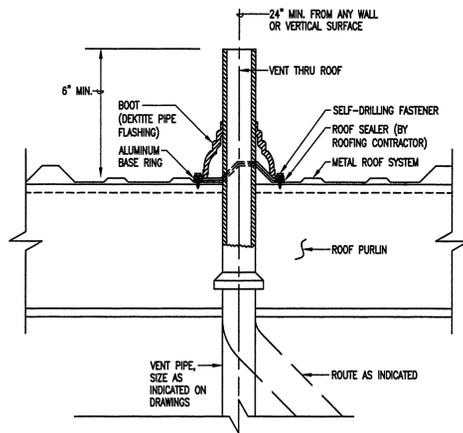
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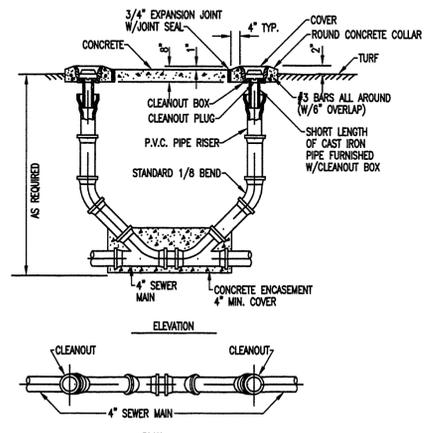
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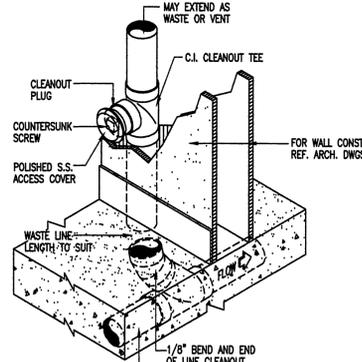
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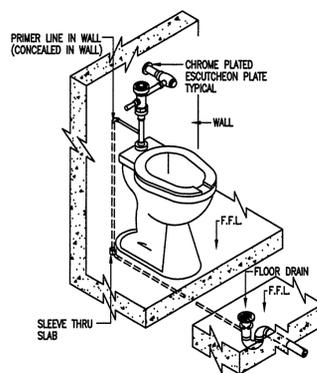
A VENT THROUGH ROOF DETAIL
SCALE: N.T.S.



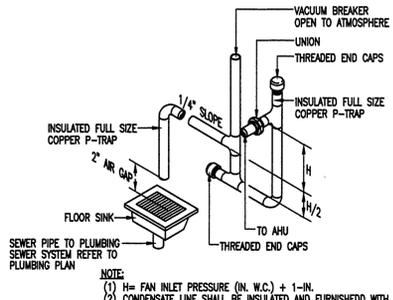
B TYPICAL EXTERIOR TWO WAY CLEANOUT DETAIL
SCALE: N.T.S.



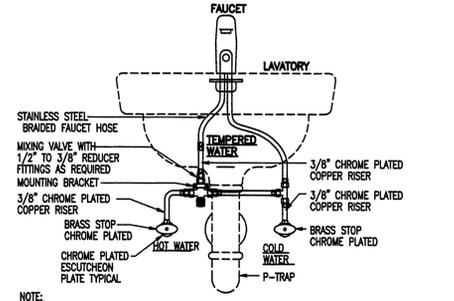
C WALL CLEANOUT DETAIL
SCALE: N.T.S.



F FLUSH VALVE TRAP PRIMER DETAIL
SCALE: N.T.S.

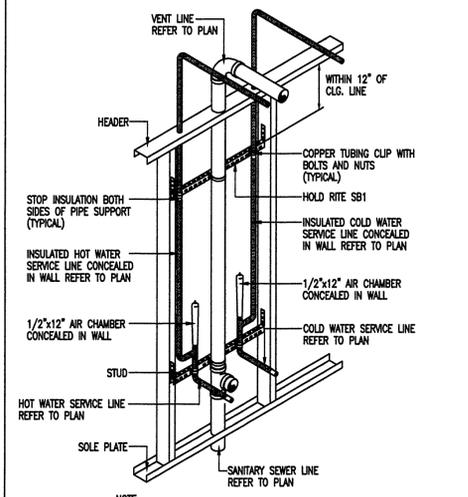


G AHU CONDENSATE P-TRAP DETAIL
SCALE: N.T.S.

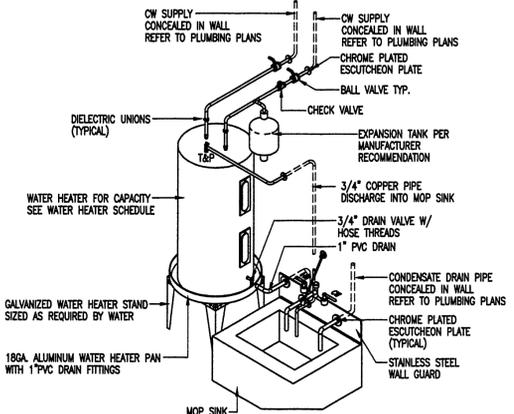


H MIXING VALVE UNDER LAV DETAIL
SCALE: N.T.S.

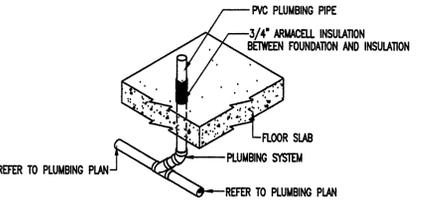
MARK	FIXTURE TYPE	CONNECTION SIZE				DESCRIPTION
		SEWER	VENT	CW	HW	
P1	WATER CLOSET (HANDICAP)	4"	2"	1"	-	VITREOUS CHINA, ELONGATED RIM, FLOOR MOUNTED WATER CLOSET WITH 1-1/2" TOP SPUD. CRANE "HYMONT" MODEL "3H701", 17-1/4" RIM HEIGHT, 1.6 GPF, 10" ROUGH-IN, SIPHON JET ACTION WITH SLOAN "ROYAL" FLUSH MODEL "111-TP" WITH TRAP PRIMER CONNECTION WHERE SHOWN ON PLANS, BENEKE MODEL "533" OPEN FRONT SEAT LESS COVER.
P2	WATER CLOSET	4"	2"	1"	-	VITREOUS CHINA, ELONGATED RIM, FLOOR MOUNTED WATER CLOSET WITH 1-1/2" TOP SPUD. CRANE "WHIRLTON" MODEL "3325", 15" RIM HEIGHT, 1.6 GPF, 10" ROUGH-IN, SIPHON JET ACTION WITH SLOAN "ROYAL" FLUSH MODEL "111-TP" WITH TRAP PRIMER CONNECTION WHERE SHOWN ON PLANS, BENEKE MODEL "533" OPEN FRONT SEAT LESS COVER.
P3	URINAL (HANDICAP)	2"	2"	3/4"	-	VITREOUS CHINA, WALL HUNG, SIPHON JET ACTION WITH 3/4" TOP SPUD AND WALL HANGERS. MINIMUM 14" RIM TO WALL DISTANCE. EQUAL TO CRANE "MANHATTAN" MODEL "7309" WITH SLOAN ROYAL "186-1" FLUSH VALVE AND APPROVED CARRIER SYSTEM.
P4	LAVATORY COUNTERTOP (HANDICAP)	2"	2"	1/2"	1/2"	VITREOUS CHINA, SELF RIMMING, OVAL (20"x17") LAVATORY WITH FAUCET HOLES ON 4" CENTERS EQUAL TO CRANE "CHELSEA" MODEL "1286-V", COMPLETE WITH LAVATORY FAUCET CHICAGO MODEL "3400-CP", POLISHED CHROME FINISH, PUSH HANDLE, 3.5 GPM FLOW, ADA APPROVED AND PROTECTIVE COVER ON P-TRAP.
P5	LAVATORY WALL HUNG (HANDICAP)	2"	2"	1/2"	1/2"	VITREOUS CHINA, WALL HUNG LAVATORY WITH HOLES ON 4" CENTERS EQUAL TO CRANE "CLAYTON" MODEL "1442-V", COMPLETE WITH LAVATORY FAUCET CHICAGO MODEL "420-CP", POLISHED CHROME FINISH, SINGLE LEVER HANDLE, 1.5 GPM FLOW, ADA APPROVED, WITH CARRIER AND PROTECTIVE COVER ON P-TRAP.
P6	STAINLESS STEEL COUNTERTOP SINK (HANDICAP)	2"	2"	1/2"	1/2"	DOUBLE COMPARTMENT STAINLESS STEEL SINK EQUAL TO ELKAY MODEL "LRAD-3319-60-3". SELF RIMMING, 32"x19"x8", 3 HOLES ON 4" CENTERS, 18 GAUGE, UNDERCOATED. COMPLETE WITH CHICAGO MODEL "786-CP" GOOSENECK, CHROMED METAL WRIST BLADE HANDLES, CONCEALED MOUNT FAUCET AND "LK-35" STRAINER WITH BASKET.
P7	STAINLESS STEEL COUNTERTOP SINK (HANDICAP)	2"	2"	1/2"	1/2"	SINGLE COMPARTMENT STAINLESS STEEL SINK EQUAL TO ELKAY MODEL "LRAD-1316-60-3". SELF RIMMING, 17"x16"x8", 3 HOLES ON 4" CENTERS, 18 GAUGE, UNDERCOATED. COMPLETE WITH CHICAGO MODEL "786-CP" GOOSENECK, CHROMED METAL WRIST BLADE HANDLES, CONCEALED MOUNT FAUCET AND "LK-35" STRAINER WITH BASKET.
P8	BI-LEVEL ELECTRIC WATER COOLER (HANDICAP)	2"	2"	1/2"	-	BI-LEVEL, SELF-CONTAINED, WALL HUNG REFRIGERATED WATER COOLER EQUAL TO ELKAY "EZSTL-8". SELF CLOSING CONTROLS ON FRONT AND SIDE. STAINLESS STEEL BASIN. FLEX-GUARD BUBBLER CAPABLE OF DELIVERING 8.0 GPM OF 50°F WATER WITH 80°F INLET WATER AND 90°F ROOM TEMPERATURE. FURNISH WITH CARRIER.
MS	MOP SINK FLOOR MOUNTED	2"	2"	3/4"	3/4"	TERRAZO, SQUARE MOP SINK EQUAL TO FIAT "TSBC-3010" 24"x24"x12" WITH 6" DROP FRONT, STAINLESS STEEL RIM GUARD AND "MSG-2424" WALL GUARD. COMPLETE WITH CHICAGO MODEL "897-CP" SERVICE SINK FAUCET WITH 8" CENTERS, PAL HOOK, AND VACUUM BREAKER SPOUT. COMPLETE WITH "832-AA" HOSE AND BRACKET, "889-CC" STAINLESS STEEL MOP BRACKET AND GRID STRAINER.
WH	WATER HEATER	-	-	3/4"	3/4"	30 GALLON WATER HEATER SHALL BE EQUAL TO A RHEEM MODEL "EGSP30". IT SHALL BE 208V/1Ø 4.5KW WITH A RECOVERY OF 30 GALLONS PER HOUR @ 80°F RISE. PROVIDE AND INSTALL EXPANSION TANK AS PER MANUFACTURER RECOMMENDATIONS.
3FD	GENERAL DUTY FLOOR DRAIN	3"	2"	-	-	ZURN MODEL "Z-415-B" LACQUERED CAST IRON FLOOR DRAIN. FURNISH COMPLETE WITH "TYPE B" NICKEL BRONZE STRAINER AND 1/2" TRAP PRIMER CONNECTION.
3FS	FLOOR SINK	3"	2"	-	-	ZURN MODEL "Z-1910-P-2" PORCELAIN-ENAMELED CAST IRON FLOOR SINK. 8"x8"x6" WITH ANTI-SPLASH INTERIOR BOTTOM DOME STRAINER, PORCELAIN-ENAMELED CAST IRON 1/2" GRATE AND 1/2" TRAP PRIMER CONNECTION.
RICB	REFRIGERATOR ICE CONNECTION BOX	-	-	1/2"	-	GLY GRAY MODEL "BIM-875" ICE CONNECTION BOX.
WHB	WALL HYDRANT	-	-	3/4"	-	ZURN ELECTRICAL WALL HYDRANT MODEL "Z-1304" ENCASED, NON-FREEZE, ANTI-SIPHON, AUTOMATIC DRAINING HYDRANT FOR FLUSH WALL INSTALLATION COMPLETE WITH BACKFLOW PREVENTER, CLOSURE VALVE, NICKEL BRONZE BOX, HINGED COVER, KEY LOCK, AND "WATER" CAST ON COVER.
FCO	FLOOR CLEANOUT	4"	-	-	-	ZURN MODEL "ZM1400" LEVEL-TROL ADJUSTABLE FLOOR CLEANOUT WITH DURA-COATED CAST IRON BODY, GAS AND WATER TIGHT ABS TAPERED THREADED PLUG, AND ROUND SCORATED POLISHED NICKEL BRONZE TOP ADJUSTABLE TO FINISHED FLOOR.
FCO	FLOOR CLEANOUT	3"	-	-	-	ZURN MODEL "ZM1400" LEVEL-TROL ADJUSTABLE FLOOR CLEANOUT WITH DURA-COATED CAST IRON BODY, GAS AND WATER TIGHT ABS TAPERED THREADED PLUG, AND ROUND SCORATED POLISHED NICKEL BRONZE TOP ADJUSTABLE TO FINISHED FLOOR.
YCO	YARD CLEANOUT	4"	-	-	-	ZURN MODEL "Z1400-HD" LEVEL-TROL ADJUSTABLE FLOOR CLEANOUT WITH DURA-COATED CAST IRON BODY, GAS AND WATER TIGHT ABS TAPERED THREADED PLUG, AND ROUND SCORATED HEAVY-DUTY CAST IRON TOP ADJUSTABLE TO FINISHED FLOOR.
YCO	YARD CLEANOUT	2"	-	-	-	ZURN MODEL "Z1400-HD" LEVEL-TROL ADJUSTABLE FLOOR CLEANOUT WITH DURA-COATED CAST IRON BODY, GAS AND WATER TIGHT ABS TAPERED THREADED PLUG, AND ROUND SCORATED HEAVY-DUTY CAST IRON TOP ADJUSTABLE TO FINISHED FLOOR.
WCO	WALL CLEANOUT	4"	-	-	-	ZURN MODEL "Z1441" WALL CLEANOUT WITH DURA-COATED CAST IRON BODY, GAS AND WATER TIGHT ABS TAPERED THREADED PLUG, AND ROUND SMOOTH STAINLESS STEEL ACCESS COVER WITH SECURING SCREW.
WHA	WATER HAMMER ARRESTOR	-	-	-	-	WATER HAMMER ARRESTOR FOR SINGLE RESTROOM SHALL BE EQUAL TO WADE PISTON-TYPE SHOKSTOPS MODEL # -P, COPPER FINISH.
WHA	WATER HAMMER ARRESTOR	-	-	-	-	WATER HAMMER ARRESTOR FOR GANG RESTROOMS SHALL BE EQUAL TO ZURN SHOKTROL MODEL # 21700 SERIES, STAINLESS STEEL.



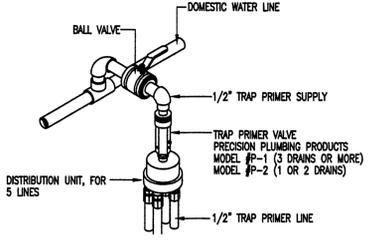
I AIR CHAMBER INSTALLATION DETAIL
SCALE: N.T.S.



J WATER HEATER PLATFORM MOUNTING DETAIL
SCALE: N.T.S.



K FOUNDATION PIPE PENETRATION DETAIL
SCALE: N.T.S.



L TRAP SEAL PRIMER DETAIL
SCALE: N.T.S.

AGA

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BOYS & GIRLS CLUB RECREATION CENTER
WESLACO, TEXAS

TEXAS PARKS AND WILDLIFE DEPARTMENT
LOCAL PARK GRANT PROGRAM
PROJECT NUMBER: 51-000065

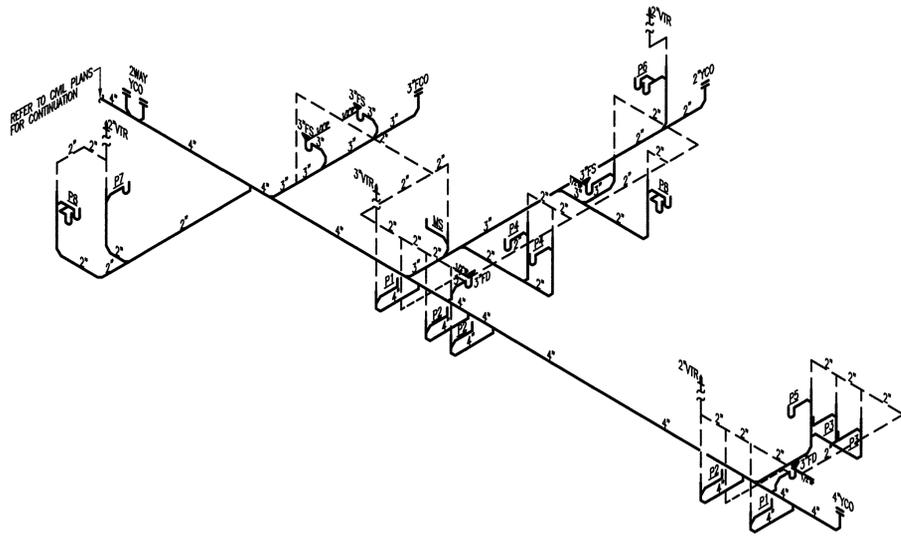
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STATE OF TEXAS
LUIS JAVIER PENA
9728
LICENSED PROFESSIONAL ENGINEER
Luis Javier Pena
03.01.2013

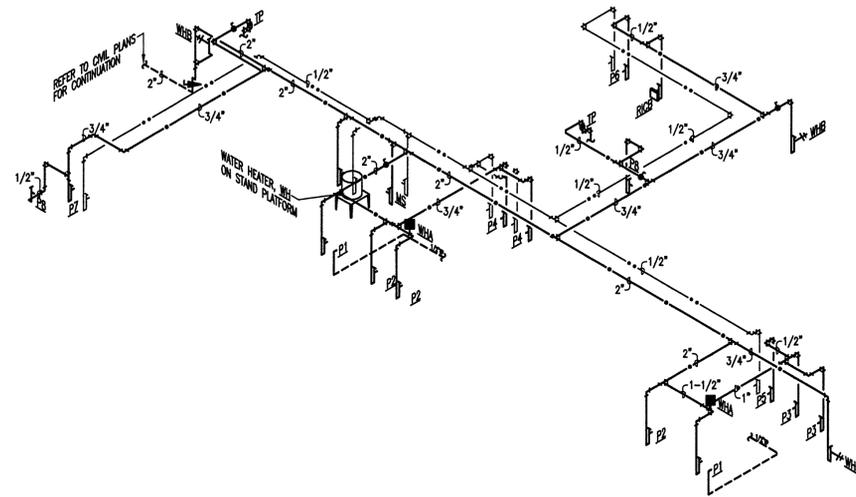
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MECHANICAL, ELECTRICAL, PLUMBING ENGINEERS
600 E. BEAUMONT AVE. SUITE 2 McALLEN, TX 78501 (956) 664-2727

P3



A PLUMBING SEWER RISER SCHEMATIC DIAGRAM
SCALE: N.T.S.



B PLUMBING HW/CW RISER SCHEMATIC DIAGRAM
SCALE: N.T.S.

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P4