HISTORIC AND DESIGN REVIEW COMMISSION

June 15, 2016 Agenda Item No:

HDRC CASE NO: 2016-144

ADDRESS: 3100 ROOSEVELT AVE

LEGAL DESCRIPTION: NCB 7675 (MISSION BRANCH LIBRARY SUBD), LOT 39

ZONING: IDZ H HS MC-1

CITY COUNCIL DIST.: 3

DISTRICT: Mission Historic District

APPLICANT: Greg Houston **OWNER:** City of San Antonio

TYPE OF WORK: New Construction of Mission Family YMCA

REQUEST:

The applicant is requesting a Certificate of Appropriateness to construct a new 13,000 sq ft YMCA facility with a 6,000 sq ft covered sports court. Surface parking to accommodate 170 spaces will be located to the east of the site with future sports fields located to the south. Proposed materials include limestone block, white stucco, metal accents, and fritted glass.

APPLICABLE CITATIONS:

Historic Design Guidelines, Chapter 4, Guidelines for New Construction

1. Building and Entrance Orientation

A. FAÇADE ORIENTATION

- i. Setbacks—Align front facades of new buildings with front facades of adjacent buildings where a consistent setback has been established along the street frontage. Use the median setback of buildings along the street frontage where a variety of setbacks exist. Refer to UDC Article 3, Division 2. Base Zoning Districts for applicable setback requirements.
- ii. Orientation—Orient the front façade of new buildings to be consistent with the predominant orientation of historic buildings along the street frontage.

B. ENTRANCES

i. Orientation—Orient primary building entrances, porches, and landings to be consistent with those historically found along the street frontage. Typically, historic building entrances are oriented towards the primary street.

2. Building Massing and Form

A. SCALE AND MASS

- i. Similar height and scale—Design new construction so that its height and overall scale are consistent with nearby historic buildings. In residential districts, the height and scale of new construction should not exceed that of the majority of historic buildings by more than one-story. In commercial districts, building height shall conform to the established pattern. If there is no more than a 50% variation in the scale of buildings on the adjacent block faces, then the height of the new building shall not exceed the tallest building on the adjacent block face by more than 10%.
- ii. Transitions—Utilize step-downs in building height, wall-plane offsets, and other variations in building massing to provide a visual transition when the height of new construction exceeds that of adjacent historic buildings by more than one-half story.
- iii. Foundation and floor heights—Align foundation and floor-to-floor heights (including porches and balconies) within one foot of floor-to-floor heights on adjacent historic structures.

B. ROOF FORM

i. Similar roof forms—Incorporate roof forms—pitch, overhangs, and orientation—that are consistent with those predominantly found on the block. Roof forms on residential building types are typically sloped, while roof forms on non-residential building types are more typically flat and screened by an ornamental parapet wall.

C. RELATIONSHIP OF SOLIDS TO VOIDS

i. Window and door openings—Incorporate window and door openings with a similar proportion of wall to window space as typical with nearby historic facades. Windows, doors, porches, entryways, dormers, bays, and pediments shall be

considered similar if they are no larger than 25% in size and vary no more than 10% in height to width ratio from adjacent historic facades.

ii. Façade configuration— The primary façade of new commercial buildings should be in keeping with established patterns. Maintaining horizontal elements within adjacent cap, middle, and base precedents will establish a consistent street wall through the alignment of horizontal parts. Avoid blank walls, particularly on elevations visible from the street. No new façade should exceed 40 linear feet without being penetrated by windows, entryways, or other defined bays.

D. LOT COVERAGE

i. Building to lot ratio— New construction should be consistent with adjacent historic buildings in terms of the building to lot ratio. Limit the building footprint for new construction to no more than 50 percent of the total lot area, unless adjacent historic buildings establish a precedent with a greater building to lot ratio.

3. Materials and Textures

A. NEW MATERIALS

- i. Complementary materials—Use materials that complement the type, color, and texture of materials traditionally found in the district. Materials should not be so dissimilar as to distract from the historic interpretation of the district. For example, corrugated metal siding would not be appropriate for a new structure in a district comprised of homes with wood siding.
- ii. Alternative use of traditional materials—Consider using traditional materials, such as wood siding, in a new way to provide visual interest in new construction while still ensuring compatibility.
- v. Imitation or synthetic materials—Do not use vinyl siding, plastic, or corrugated metal sheeting. Contemporary materials not traditionally used in the district, such as brick or simulated stone veneer and Hardie Board or other fiberboard siding, may be appropriate for new construction in some locations as long as new materials are visually similar to the traditional material in dimension, finish, and texture. EIFS is not recommended as a substitute for actual stucco.

4. Architectural Details

A. GENERAL

- i. Historic context—Design new buildings to reflect their time while respecting the historic context. While new construction should not attempt to mirror or replicate historic features, new structures should not be so dissimilar as to distract from or diminish the historic interpretation of the district.
- ii. Architectural details—Incorporate architectural details that are in keeping with the predominant architectural style along the block face or within the district when one exists. Details should be simple in design and should complement, but not visually compete with, the character of the adjacent historic structures or other historic structures within the district. Architectural details that are more ornate or elaborate than those found within the district are inappropriate.
- iii. Contemporary interpretations—Consider integrating contemporary interpretations of traditional designs and details for new construction. Use of contemporary window moldings and door surroundings, for example, can provide visual interest while helping to convey the fact that the structure is new. Modern materials should be implemented in a way that does not distract from the historic structure.

6. Mechanical Equipment and Roof Appurtenances

A. LOCATION AND SITING

- i. Visibility—Do not locate utility boxes, air conditioners, rooftop mechanical equipment, skylights, satellite dishes, and other roof appurtenances on primary facades, front-facing roof slopes, in front yards, or in other locations that are clearly visible from the public right-of-way.
- ii. Service Areas—Locate service areas towards the rear of the site to minimize visibility from the public right-of-way.

B. SCREENING

- i. Building-mounted equipment—Paint devices mounted on secondary facades and other exposed hardware, frames, and piping to match the color scheme of the primary structure or screen them with landscaping.
- ii. Freestanding equipment—Screen service areas, air conditioning units, and other mechanical equipment from public view using a fence, hedge, or other enclosure.
- iii. Roof-mounted equipment—Screen and set back devices mounted on the roof to avoid view from public right-of-way.

A. LOCATION

i. Preferred location—Place parking areas for non-residential and mixed-use structures at the rear of the site, behind primary structures to hide them from the public right-of-way. On corner lots, place parking areas behind the primary structure and set them back as far as possible from the side streets. Parking areas to the side of the primary structure are acceptable when location behind the structure is not feasible. See UDC Section 35-310 for district-specific standards. iii. Access—Design off-street parking areas to be accessed from alleys or secondary streets rather than from principal streets whenever possible.

B. DESIGN

- i. Screening—Screen off-street parking areas with a landscape buffer, wall, or ornamental fence two to four feet high—or a combination of these methods. Landscape buffers are preferred due to their ability
- ii. Materials—Use permeable parking surfaces when possible to reduce run-off and flooding. See UDC Section 35-526(j) for specific standards.

FINDINGS:

- a. The request for conceptual approval was reviewed by the Design Review Committee on April 13, 2016, where committee members gave positive feedback in regards to the orientation of the site and the proposed materials. Conceptual approval was received at the April 20, 2016, HDRC hearing with the stipulations that the applicant provide more information regarding landscaping, paving and the screening of mechanical equipment prior to submitting an application for a Certificate of Appropriateness.
- b. The location for the proposed new construction is sited on the Mission Drive-In redevelopment site to the north of Mission San Jose and to the east of the Mission Branch Library and is consistent with the master plan developed for the site. While there is not a strong historical context at this location, any proposed new construction near the missions should incorporate appropriate indigenous materials and preserve any important views to or from the mission sites.
- c. SCALE, SETBACK & MASSING The building scale, setback, and massing are consistent with the adjacent buildings and generally conform to the Guidelines for New Construction sections 1 and 2.
- d. MATERIALS The proposed materials consists of those that are found within the district and will create a cohesive relationship with the adjacent Mission Branch Library consistent with the Guidelines for New Construction section 3.
- e. ARCHITECTURAL DETAILS The proposed contemporary design reflects the time of its construction while incorporating traditional patterns such as the application of the fritted glass. This is consistent with the Guidelines for New Construction 4.A.
- f. SCREENING The applicant has noted that mechanical equipment will be located on the roof and will be screened by weathered metal panels. This is appropriate and consistent with the Guidelines.
- g. SURFACE PARKING The siting of the proposed surface parking is generally consistent with the Guidelines for Site Elements 7.A.i. and is located at the rear of the premises. The applicant has also noted a parking lot of asphalt to be buffered by landscape islands that are to be sodded and contain trees to serve as a buffer from pedestrian oriented locations. This is appropriate and consistent with the Guidelines.
- h. This property is located within the Mission Protection Overlay District. The applicant has provided a diagram which illustrates conformance with building height restrictions at this location.
- i. ARCHAEOLOGY The archaeology requirements for this project have been satisfied. No additional work is required.

RECOMMENDATION:

Staff recommends approval as submitted based on findings a through i.

CASE MANAGER:

Edward Hall

CASE COMMENTS:

This	case	was	reviewe	d by the	e Desi	on Re	view	Committee	on A	pril 13.	2016.
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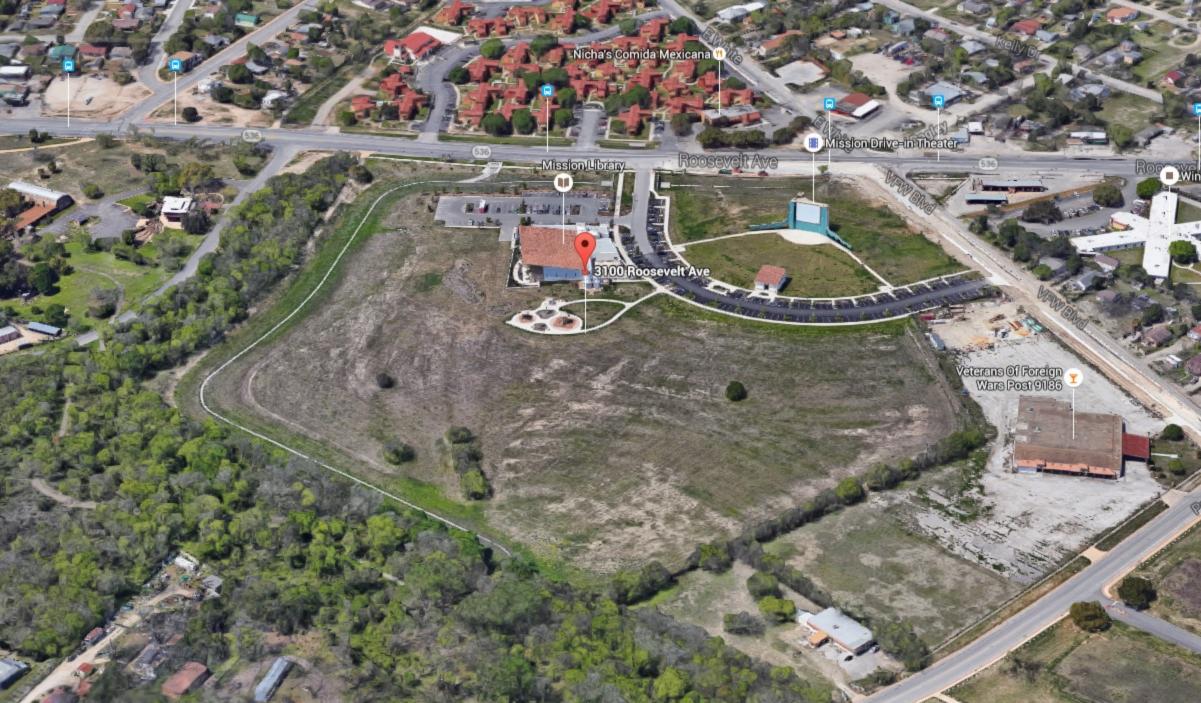


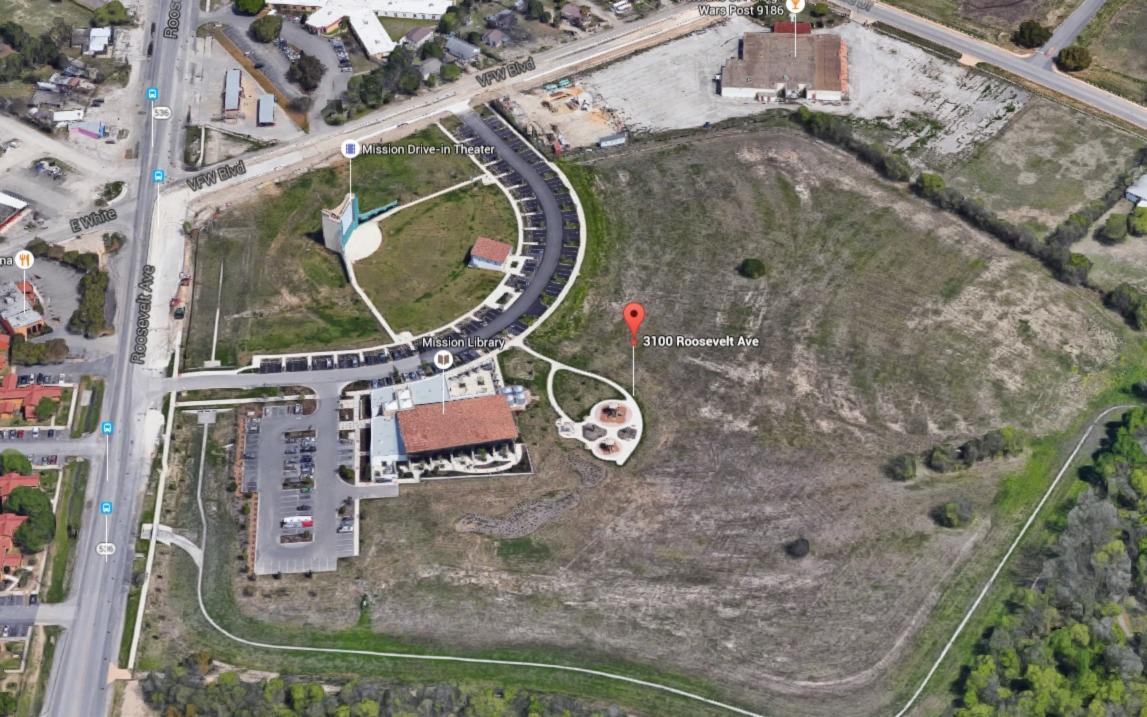
Flex Viewer

Powered by ArcGIS Server

Printed:Jun 07, 2016

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HARVEY E. NAJIM FAMILY YMCA

YMCA of Greater San Antonio

3001 ROOSEVELT AVENUE, SAN ANTONIO, TEXAS 78214

Project Number: 14011

PREPARED FOR:



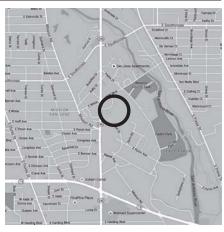
YMCA OF GREATER SAN ANTONIO 231 E. Rhapsody San Antonio, TX 78216



NOT FOR CONSTUCTION MAY 27, 2016







Structural: Alpha Consulting Engineers, Inc. 25836 Hwy. 281 N., Ste. 200 San Antonio, TX 78258 210-227-3647

M&S Engineering 6477 FM 311 Spring Branch, Texas 78070 830-629-2988

Jones & Carter, Inc. 1000 Central Parkway North San Antonio, TX 78232 210-494-5511

Landscape: Rialto Studio 2425 Broadway, Suite 105 San Antonio, Texas 78215 210-828-1155

I101

INDEX OF DRAWINGS

INDEX	OF DRAWINGS		
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C200	EXISTING CONDITIONS	A404	INTERIOR ELEVATIONS
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L102	LANDSCAPE ORDINANCE PLAN	A707	WALL SECTIONS
L400	PLANTING PLAN	A708	WALL SECTIONS
L401	PLANTING PLAN	A801	LEVEL 1 - FF&E
L402	PLANTING PLAN	A802	LEVEL 2 - FF&E
L403	PLANTING PLAN	A901	LEVEL 1 - FINISH PLAN
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L405	PLANTING PLAN		
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C703	DRAINAGE AREA MAP ULTIMATE CONTROL	A604	GUARDRAIL PATTERNING
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ARCHITECTU	JRAL .	S204	HIGH ROOF FRAMING PLAN
A001	SITE PLAN	S301	TYPICAL SECTIONS AND DETAILS
A002	SITE PLAN DETAILS	S302	SECTIONS AND DETAILS
A101	LEVEL 1 FLOOR PLAN	S303	TYPICAL DETAILS AND NOTES
A102	LEVEL 2 FLOOR PLAN	S401	TYPICAL STEEL DETAILS
A103	ROOF PLAN	S402	TYPICAL COMPOSITE SECTIONS AND DETAILS
A103-ALT	ROOF PLAN - ADD ALTERNATE #1	S403	SECTIONS AND DETAILS
A104	PLAN DETAILS	S501	PANEL ELEVATIONS
A105	MISC. DETAILS	MECHANICAL	PANEL ELEVATIONS
A201	DOOR & WINDOW SCHEDULES, TYPES		
A202	DOOR & WINDOW DETAILS	M100	SYMBOLS, ABBREV, & GENERAL NOTES
A203	SCHEDULES	M201	LEVEL 1 MECHANICAL PLAN
A301	EXTERIOR ELEVATIONS	M202	LEVEL 2 MECHANICAL PLAN
A302	EXTERIOR ELEVATIONS	M203	ROOF MECHANICAL PLAN
A303	BUILDING SECTIONS	M601	MECHANICAL DETAILS

SYMBOLS & TAGS

GRAPHIC SCALE

REVISION NUMBER AND EXTENT

	SDE GRAB BAR TAO2 TOUET TISSUE DIS PERSER TA-12	HAND SOVP DISPENSER TA-13	FRAMELESS MRRACR TA-15	HAND DRYER - WALL MOUNTED TA-08	FOLDING ADA - SHOWER SEAT TA-06	SHOWER CURTAINNCO, TAGS
SIDE REACH MAX. FRONT REACH MAX. FRONT REACH MAN. SOID REACH MIN.	7 - 6' MM - 10' MM -	2-7 4-0.	// // // // // // // // // // // // //	21.0.2		
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ABBREVIATIONS

AFF ABOVE FINDSHED FLOOR
AFG ABOVE FINDSHED FLOOR
AFG ABOVE FINDSHED GRADE
AL, ALLI, ALUMMAM
BO BOMEO
BOMEO
BOMEO
CONTRACTOR FINNSHED
CO COMPREGUENCY
COMPRETE MAGGINETY UNIT
CO

COLUMN
CORRIDOR
CERAMIC TI
DOUBLE
DETAIL
DIAMETER
DISCONNEC
DOWN
DRAWINGS

ELEVATION EXPANSION EXTERIOR IN EQUAL EQUIPMENT

FLUOR HULD-REDUCTOR
FT FEET, FOOT
GA GALUGE
GALV GALUANIZED
GYP GYPSUM
GFI GROUND FAUI
GND GROUND
INSUL INSULATION
INT INTERIOR

ELECTRIC WATER COOLER EXHAUST EXPOSED EXTERIOR INSULATION AN

CL CLG CLS CMU CONC CONT COL CORR CT DBL DBT

SO ROOF GRAWN ROOF GRO

PROVIDE BLOCKING FOR GRAB BARS, LIGHT FIXTURES, COUNTERTOPS, MIRRORS AND SIMILAR ITEMS SEE FINISH SCHEDULE FOR FINISHES PROVIDE SEALANT BETWEEN BACKSPLASH, SIDESPLASH AND WALLS

ROOM SIGNS

PROJECT AND ADD ALTERNATES SUMMARY:

THESE DOCUMENTS INCLUDE BUT ARE NOT LIMITED TO THE CONSTRUCTION OF A 12,938 SF BUILDING WITH A 6,000 SF OUTDOOR SPORT COURT WHICH IS PARTIALLY (1/2) COVERED. INCLUSIVE IS A PARKING LOT AND PAVING AREAS TOTALING 72,00 SF. LANDSAP ENAWING SELEMENT FOR THE TOTAL OF THE CODE RELATED REQUIREMENTS FOR THE PARKING LOT SCREENING AND BUILDING SEAUTIFICATION. CONTRACTION TO ACCOUNT FOR SITE WORK AT MISSION PLAZA DRIVE WHICH INCLUDES RELOCATION OF AN EXISTING THEE AND LIGHT FOLE.

MECHANICAL ISOMETRIC

LEVEL 2 PLUMBING PLAN

PLUMBING SCHEDULES ELECTRICAL SITE PLAN

LEVEL 1 ELECTRICAL RCP LEVEL 2 ELECTRICAL RCP

ROOF ELECTRICAL PLAN ELECTRICAL RISER DIAGRAM

LEVEL 1 ALARM PLAN LEVEL 2 FIRE ALARM PLAN

ELECTRICAL DETAILS

LEVEL 2 ELECTRICAL ROP

LEVEL 1 ELECTRICAL POWER PLAN

LEVEL 2 ELECTRICAL POWER PLAN

SYMBOLS, ABBREV, & GENERAL NOTES

SYMBOLS, ABBREV, & GENERAL NOTES

LEVEL 1 PLUMBING BELOW FLOOR PLAN

PLUMBING

P401 P501 ELECTRICAL

P201

P302

E201

E301 E302 E303 E401

FA100

FA201 FA202

ADD ALTERNATES: ADD ALTERNATE NO. 1 - 'AIRNASIUM' ROOF ADDITION TO FULLY COVER DELINEATED COURT SPACE. THIS PORTION OF THE WORK WILL USE STANDARD DETAILS AS APPLIED FROM THE BASE BID - REFER TO STRUCTURAL / ELECTRICAL FOR COORINDATING ELEMENTS. SET

ADD ALTERNATE NO. 2A - CUSTOM CLIETAM WALL ENTITING DATEEDINGS WITH A STIVLED PATTERN GENERATED WITH HEY "LOOD VOU MINET ASSURE ARCHITECT! CONTRACTION COORMINATION WITH SUPPLIER! FABRICATOR AS REQUIRED TO PRODUCE WORK. REFERENCE THE ASSOCIATED SPECIFICATIONS WITH BASIS OF DESIGN INFORMATION. SEE:

ADD ALTERNATE NO. 28 - STANDARD CURTAIN WALL FRITTING PATTERN AS SHOWN IN THE DRAWINGS WITH A SIMPLE STOCK SCREEN PATTERN. REFERENCE THE ASSOCIATED SPECIFICATIONS WITH BASIS OF DESIGN INFORMATION. SEE:

ADD ALTERNATE NO. 3A - DECORATIVE METAL FENCING AS SHOWN ON DRAWINGS WITH ASSOCIATED SPECIFICATIONS. SEE: ADD ALTERNATE NO. 3B - STANDARD PICKET METAL FENCING AS SHOWN ON DRAWINGS WITH ASSOCIATED SPECIFICATIONS.

ADD ALTERNATE NO. 4 - PROVIDE LINE ITEM PRICING FOR MATERRIALS AND LABOR FOR THE LANDSCAPE SEATING CIRCLES AS SHOWN IN THE DRAWINGS AND SPECIFICATIONS. SEE:

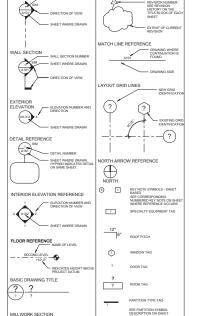
ADD ALTERNATE NO. 5 - CONTRACTOR TO DEVELOP PRICING ON AN <u>OUTDOOR LEARNING AREA</u> THAT INCORPORATES ADDITIONAL LANDSCAPE AS DESCRIBED IN THE DRAWINGS. THE PRICE FOR THIS ATTERNATE SHALL INCLUDE AN ALLOWANCE OF \$10,000 FOR CONSTRUCTION DETAILS, TO BE PERFORMED BY PRIALT OSTUDIO. \$EE:

ADD ALTERNATE NO. 6 - PROVIDE PRICING FOR THE INSTALLATION OF MONDO SPORT IMPACT FLOORING (6MM - 136 BROWN) IN THE WELLNESS FLOOR, RM 201, IN LIEU OF SPECIFIED FLOORING.

ADD ALTERNATE NO. 7 - CONTRACTOR TO PROVIDE A LINE ITEM (PER FIXTURE) COST ON ALTERNATE LIGHT FIXTURE TYPES REFER TO FIXTURE SCHEDULES IN ELECTRICAL DRAWINGS. SEE:

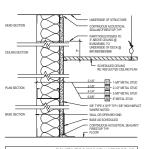
ADD ALTERNATE NO. 8 - PRICE KAWNEER 1600 CURTAINWALL SYSTEM ON THE SOUTH FACADE ENTRY IN LIEU OF KAWNEER CLEARWALL CURTAINWALL. REFER TO THE SPECIFICATIONS. SEE:

ADD ALTERNATE NO. 9 - PRICE A TRU-FLEX TEXTURED COLORED FINISH IN LIEU OF PAINTED STRIPES ON THE OUTDOOR SPORT COURT.

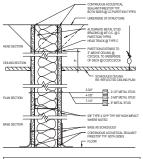


REFERENCE SYMBOLS

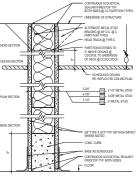
BUILDING SECTION



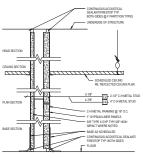
В	- BB	20 G AD	20 GA. METAL STUD @ 16" O.C. WITH 1 LAYER 58" GYP. AND ACOUSTICAL BATT INSULATION FULL DEPTH AND HEIGHT					
PARTITION TYPE		L/240 LIMITING HEIGHT		FIRE	RATING	STC		
NON-RATED	RATED	STUD DEPTH		HOURS	ULLISTING			
B1		1-5/8"	15'-4"		-			
82		2-1/2*	15'-4"	-	-			
B3		3-5/8"	15'4"	-		44		
86		6"	15'-4"	-	-	56		



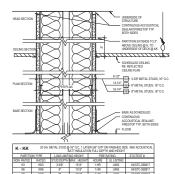
С	- CC		20 GA. METAL STUD @ 16" O.C. WITH 1 LAYER 5/8" GYP. EACH SIDE AND ACOUSTICAL BATT INSULATION FULL DEPTH AND HEIGHT						
PARTITI	ON TYPE	L/240 LIMIT	NG HEIGHT	FIRE	RATING	STOTEST			
NON- RATED	RATED	STUD DEPTH	MAX . HEIGHT	HOURS	UL LISTING				
C2		2-1/2"	15'4"						
	002	2-1/2*	15-4"	1HR	CEG 8-11-83 CEG 5-9-84	45/RAL-TL-69-42			
C3		3-58"	15'4"						
	003	3-5/8"	15'-4"	1HR	U419/U451	52/RAL-TL-11-08			
C6	-	6"	15'-4"	-	-	-			
	006	6"	15'-4"	1HR	U419/U451	56/RAL-TL-84-14			
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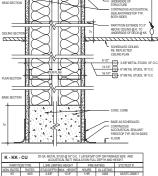


С	- cc - cu	20 GA. METAL STUD (§ 16" O.C. WITH 1 LAYER 518" GYP. EACH SIDE AND ACOUSTICAL BATT INSULATION FULL DEPTH AND HEIGHT						
PARTITI	ON TYPE	L/240 LIMITING HEIGHT		FIRE	STOTEST			
NON-RATED	RATED	STUD DEPTH	MAX . HEIGHT	HOURS	ULLISTING			
C2		2-1/2"	15'4"		-	-		
	002	2-1/2*	15:4"	1HR	CEG 8-11-83 CEG 5-9-84	45/RAL-TL-69-42		
C3		3.58"	15'4"					
	003	3.58"	15-4"	1HR	U419U451	S2/RAL-TL-11-080		
C6		6"	15'-4"		-			
	006	6"	15'-4"	1HR	U419/U451	56/RAL-TL-84-141		



	F	25 GA. METAL CH STUD @ 16" O.C. WITH 1 LAYER - 58" TYPE X GYP BD ONE SIDE 1" GYPSUM LINER PANELS OTHER SIDE							
[PARTITI			NG HEIGHT	FIRE	STOTEST			
ı	NON-RATED	RATED	STUD DEPTH	MAX . HEIGHT	HOURS	ULLISTING			
ſ	F2	-	2-1/2"		1 HR	U415	39/USG-040901		
ı	F4	-	4" .		1 HR	1 HR U415			
[F6	-	6"	-	1 HR	U415	39/USG-040901		

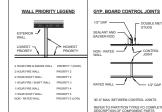




K-KK-	CU	ACOUS'	ACOUSTICAL BATT INSULATION FULL DEPTH AND HEIGHT							
PARTITION TYPE		L/240 LIMITING HEIGHT		FIRE	RATING	STOTEST#				
NON- RATED	RATED	STUD DEPTH	MAX . HEIGHT	HOURS	ULLISTING					
K3	K9K3	3-58*	13-9"	1 HR	U493	64/STC-050817				
K6	K905	6"	13-9"	1 HR	U493	64/STC-050817				
K3	K9/8	8"	13-9"	1 HR	U493	64/STC-050817				

STUD SIZE SCHEDULES

LOAD BEA	RING	ı	NONLOAD	BEARI	NG		
STUD SIZE	LIMTN	3 HEIGHT	1	UNBRACED HT.	WIDTH	WIDTH	
	BRICK (LI600)	MTL SIDING (L/360)	1		3-5/8**	6"	
3-5/8" X 18 GA	9.4"	11'-0"	11	0-15'	25 GA	25 GA	
3-5/8" X 16 GA	10'-0"	12'-0"	11	15'-20'	20 GA	25 GA	
3-5/8" X 14 GA	11'0"	13'-0"	11	20-25	18 GA	20 GA	
6" X 20 GA	12:0"	14'-0"	ľ				
6" X 18 GA	13'-0"	15'-6"	1				
6" X 16 GA	14'-0"	17'-0"]				
6" X 14 GA	15'-0"	18'-0"]				
8" X 18 GA	16'-0"	19'-0" W					
8" X 16 GA	17'-6"	21'-0"					
8" X 14 GA	19'-0"	22'-6"	1	THESE ARE FOR			
10" X 16 GA	21'-6"	25'-0"	1	DESIGN P		ES	
10" X 14 GA	24'-0"	28'-0"	l	ENGINEER			
12" X 16 GA	24'-6"	29'-6"	1	STAMPED FOR ACTU		TTAL	
12" X 14 GA	26'-6"	31'-0"	1	GUAGES			



 DOUBLE LETTER PARTITION TYPES EXTEND TO BOTTOM OF STRUCTURE.
 NUMBER INDICATES NOMINAL STUD WIDTH - LETTER SUFFIX DESIGNATION AS NOTED

2 HO з ноц SMOKE REFER TO PARTITION TYPES FO COMPLETE DESCRIPTION OF COMPONENT PARTS

REFER TO WARNOOK HURSEY REPORT NO. WH-E (651-310)

PLAN DESIGNATION SYMBOLS

CU	CONC. CURB
LEGE	ND
==	

D WAL	LEGEND
UR	
UR	
UR	

SINGLE LETTER PARTITION TYPES EXTEND TO 3" ABOVE CEILING.
 NUMBER INDICATES NOMINAL STUD WIDTH

		-

GENERAL NOTES - WALL PARTITION TYPES

EVERY WALL SHOWN ON PLAN SHALL BE ONE OF THE WALL TYPES SHOWN, WHETHER KEYED ON THE PLAN OR NOT. IF WALL DOES NOT HAVE KEY, PROVIDE WALL TYPE TO MATCH AD MICHAY OR PRESENT KEY.

SEE ROOM FINISH SCHEDULE FOR FINISHES AND CEILING HEIGHT

. FIRE TAPE OR SEAL ALL PENETRATIONS.

 ALL WALLS THAT ARE PERPENDICULAR TO ROOF DECK SHOULD BE SEALED TIGHT TO UNDERSIDE OF DECK WI PACKED INSULATION AND FIRE SAFING (IF RATED). COPE SHEETROCK AROUND CONCRETE PANS AND/OR STRUCTURE. ALL SOUND WALLS TO RECEIVE ACQUISTICAL SEALANT AROUND CRACKS AND GAPS OF EDGED AT FLOOR, CEILING AND JUNCTION BOXES. 7. PROVIDE BRACE AT END OF ALL CMU WALLS, EACH SIDE OF CONTROL JOINTS AND AT 6'0" TYPICAL. IF AN INTERSECTING WALL IS LAYED AT THE SAME TIME, THE WALL BE CONSERERY A BRACE

9. ALL METAL STUD POOF DECK CONNECTIONS TO HAVE SUP JOB LIEG METAL STUD TRACK.

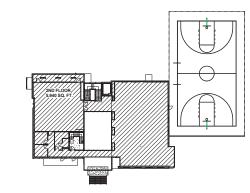
PARTITIONS MAY TERMINATE AT STRUCTURAL MEMBERS WIT GREATER OR EQUAL TO THE PARTITION, PROVIDED THAT RATING TO STRUCTURAL DECK ABOVE.

 NON-RATED PARTITIONS THAT EXTEND TO STRUCTURE SHALL TERMINATE. UNCERSIDE OF STRUCTURAL DECK TO MAINTAIN A CONTINUOUS PLANE OF GYPSUM BOARD AS A NOISE, SMCKE OR OTHER TYPE OF BARRIER. 16. ALL PARTITIONS EXTENDING TO STRUCTURE ABOVE SHALL TERM! EXPANSIVE IN COMPLIANCE WITH ASTM.

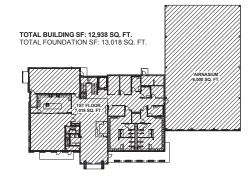
18. UL DESIGN NUMBERS REFER TO FIRE RESISTANCE DIR 19. MISCELLANDOUS FURRING AROUND COLUMNS TO BE 58° GYPSUM BOARD OVER 1-58° METAL STUDS UNLESS OTHERWISE NOTED/DETAILED.

20. MISCELLANEOUS NON-RATED CHASES TO BE 58° GYPSUM BOARD OVER 3-58° METAL STUDS, UNLESS OTHERWISE NOTED DETAILED.

23. CONSTRUCT ALL PARTITIONS WITH SOUND ATTENUATION FOLLOWING SOUND BATT THEORIESS: 2-1/2" OR LESS METAL BATTS; 3-5/8" OR LARGER METAL STUDS = 3" THECK BATTS.



2 FLOOR PLAN - AREA PLAN - LEVEL 2



1 FLOOR PLAN - AREA PLAN - LEVEL 1

FAMILY YMCA 3100 ROOSEVELT AVENUE, SAN ANTONIO, TEXAS 78214 NAJIM HARVEY

OX

Marmon V ARCHITECTURE 210.223.94927 210.22 700 N. St. Mary's Suite 1600 San Antonio,

BUILDING AREAS AND PARTITION TYPES

SHEET NO. I102

90% CONSTRUCTION DOCUMENTS

HARVEY E. NAJIM FAMILY YMCA Mission Plaza Drive

SHEET TITLE FIRE PROTECTION ANALYSIS

R101

				OCCUPANT	LOAD CALCULATION	
Rm#	Name	Area	Load Factor	Load Calculation	Type of Use	Comments
100	RECEPTION		15	46		
101	ALCOVE	66 SF)			Not Classified
102	LOBBY		15	40		
103	MULTI-PURPOSE-1	851 SF	15	57		
103S	STORAGE	66 SF)			
104	TEACHING KITCHEN	395 SF 2	20	20	Kitchen / Classroom	
104S	PANTRY	22 SF ()			
105	MULTI-PURPOSE-2	801 SF 1	15	54		
105S	STORAGE	50 SF 0	0			
106	CIRCULATION	778 SF)			Not Classified
107	DIRECTOR	135 SF	100	2	Office	
108	WORKROOM	130 SF 1	100	2		
109	PERSONAL CHANGING	85 SF 5	50	2		
110	T/R	68 SF 5	50	2		Not Classified
111	LAUNDRY	97 SF 3	300	1		
112	PERSONAL CHANGING	99 SF 5	50	2		
114	MEN	562 SF 5	50	12		
115	WOMEN	561 SF 5	50	12		
116	MEMBERSHIP	105 SF 1	100	2	Office	
117	CUST.	51 SF 3	300	1		
118	FIRE / ELECT.	138 SF 3	300	1		
119	EXIT STAIR	74 SF 0)			
120	AIRNASIUM	5955 SF ()		Assembly (unconcentrated tables and chairs)	Outdoor Covered Area
200	CIRCULATION	211 SF)			
201	WELLNESS FLOOR	2987 SF 3	30	100		
202	GROUP X	1502 SF 5	50	31	Exercise Rooms	50% Workout Equipment
202S	STORAGE	231 SF 3	300	1		
203	BREAK ROOM	100 SF	100	1	Office	
204	FITNESS DIRECTOR	98 SF 1	15	7		
205	GENERAL STORAGE	109 SF 3	300	1		
206	IT	33 SF	15	3		
207	CIRCULATION	340 SF				1
208	STAIR	159 SF				1
Grand total				400	1	-

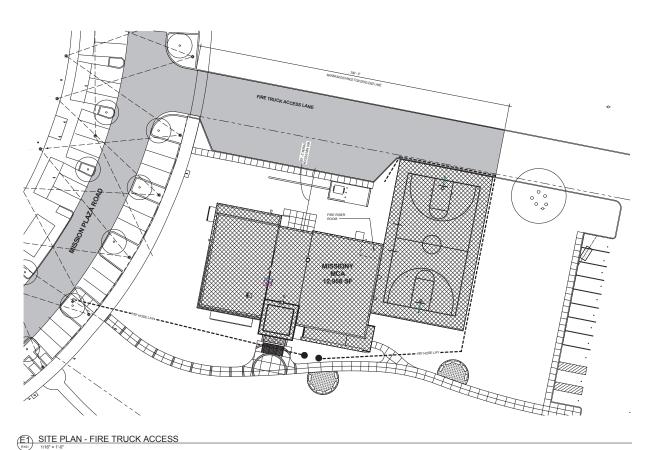
	PROJ	ECT CODE A	NALYSIS			
PROJECT NAME:	OCCUPANCY & AREA	DETERMINATION	REFERENCING SECTION	LIFE SAFETY REQUIREMENTS	DETERMINATION	REFERENCING SECTION
MISSION YMCA	OCCUPANCY TYPE:	A-3 Assembly	IBC SECT. 303	CORRIDOR WIDTH:	44" MIN.	Table 1020.2
PROJECT ADDRESS:	OCCUPANT LOAD:	-	Table 1004.1.2	CORRIDOR HEIGHT:	7" - 6"	NFPA 7.1.5.1
Mission Plaza Drive	CONSTRUCTION REQUIREMENTS:	TYPE II-B FULLY-SPRINKLERED	Table 601	DOORS:	32"	NFPA 7.2.1.2.3.2
San Antonio, TX	ALLOWABLE FLOOR AREA:	UNLIMITED	Table 507.6	EXIT DISTANCE:	250'	Table 1017.2
	ALLOWABLE AREA MODIFICATIONS:	N/A		FIRE SPRINKLER SYSTEM:	AUTO SPRINKLER	-
PROJECT SQUARE FOOTAGE:	FIRE RESISTANCE REQUIREMENTS:	•				
TOTAL BUILDING: 12,938 SF	STRUCTURAL FRAME:	NON RATED	Table 601			
RENOVATION: NO	EXTERIOR BEARING:	NON RATED	Table 601			
APPLICABLE CODES & REGULATIONS:	EXTERIOR NON-BEARING:	NON RATED	Table 601			
BUILDING CODE: 2015 INTERNATIONAL BUILDING CODE	INTERIOR BEARING:	NON RATED	Table 601			
FIRE CODE: 2015 INTERNATIONAL FIRE CODE	INTERIOR NON-BEARING:	NON RATED	Table 601			
PLAN REVIEW DATE: -/-/-	FLOOR & ROOF CONSTRUCITON	NON RATED	Table 601			
	FIRE BARRIERS	NOT REQUIRED	-			
	SHAFT ENCLOSURES	NOT REQUIRED	-			
	OPENINGS	NOT REQUIRED				

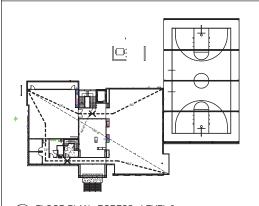
FIRE LANE:

	PLUMBING FIXTURE COUNTS												
WATER	CLOSETS	LAVAT	ORIES	DRINKING FOUNTAINS	SERVICE SINK								
MALE	FEMALE	MALE	FEMALE	(1 per 500)									
(1 per 125)	(1 per 65)	(1 per 200)	(1 per 200)										
3	5	2	2	2	1								

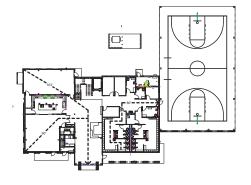
EGRESS

Calculations based on A-3 Occupancy, 2015 IBC





D5 FLOOR PLAN - EGRESS - LEVEL 2



FLOOR PLAN - EGRESS - LEVEL 1

- Contractor shall comply with all local building codes and regulations, as well as other safety codes and inspection provisions applicable to this project.

- Contractor shall notify all utility companies with facilities adjacent to or in the vicinity of the proposed construction and have each facility located prior to beginning construction. If the utility companies are unable to locate utilities, Contractor shall be responsible for obtaining utility locates for all utilities, including but not limited to gas, electric, eather, sonitary seems, etc.
- neturing but not limited to pay, electric, setter, sontary server, etc. The approximate location of existing utilities are given for reference only, Before commencing the work on this contract, the contractor shall verify by fined investigation the extual locations of all utility healths within an objective result due to negligence by the contractor to locate, horizontally and vertically, result due to negligence by the contractor to locate, horizontally and vertically, existing utilities within ore shown on the construction devine, or which he responsibility of the contractor. The cost of remedial sork, removal or protions of the work or extensive design changes occasioned by the failure of the contractor to verify the location of existing utilities on described obove shall be borne by the contractor.

- If required to modify grade, the fill materials should be placed on prepared surfaces in lifts not to exceed 8 Inches loose measure, with compacted thickness not to exceed 6 inches. The fill should be compacted between –1 and +3 percentage points of optimum moleture content to minimum of 95% Standard Proctor maximum dry density (ASTM D 988).

Fill material shall be free of surficial vegetation, organics, any other deleterious materials, or debris.

On-Site soils to be used for fill shall be placed in loase lifts not to exceed 8 inches in thickness and compacted to at least 95 percent of the maximum density as determined by TsO7, Ter-114-E. the moisture content of the fill should be maintained within the range of optimum water content to 3 percent points above the optimum water content to 3 percent points above the optimum water content until germanently covered.

If imported fill material is utilized it shall also be free of organics, a relatively homogeneous mixture, a maximum particle size of 3 inches, liquid limit less than 40 and a plasticity index between 7 and 20.

Line treatment of the subgrade sols, if utilized, should be in accordance with the "IDT" Stendard Specifications. Item 267. The sol line mature placetic composition of a minimum of 99 percent of the maximum density of a minimum of 99 percent of the maximum density of a minimum content within the range of aptimum minimum density of a minimum density of the content of the maximum density of the content of the maximum minimum content of the content by Tex-114-E_D solve the aptimum minimum content or determined by

- 12. If groundwater or seepage is encountered during construction, Contractor shall notify Engineer immediately.

- 14. Any excess excavation which is not used on site shall become the property of the Contractor and disposed of offsite in conformance with all governmental rules related to such disposal or if approved by owner excess excavation can be disposed on site. There will be no separate payment for this work.
- The contractor will be responsible for filing a N.O.I. with T.C.E.Q. at the start of the project and filing the N.O.T. at the end of construction.

CONSTRUCTION

OF

CIVIL SITE & DRAINAGE FACILITIES

FOR

MISSION FAMILY YMCA

CITY OF SAN ANTONIO BEXAR COUNTY, TEXAS

ARDORS

BLOW-FF VALVE
BEAMS

BUSINESS

BUSINES

WITH
WITH CAP STAMPED WEISSER
WATER METER
WATER VALVE

MAY 2016

INDEX OF DRAWINGS

Sheet Number	Sheet Title
1	COVER
2	EXISTING CONDITIONS
3	DEMOLITION PLAN
4	DIMENSION CONTROL PLAN
5	SITE PAVING PLAN
6	SITE UTILITY
7	FIRE PROTECTION PLAN
8	SITE GRADING PLAN
9	DRAINAGE AREA MAP PRE DEVELOPMENT
10	DRAINAGE AREA MAP POST DEVELOPMENT
11	DRAINAGE AREA MAP ULTIMATE DEVELOPMENT
12	DRAINAGE CALCS
13	SWPPP
14	SWPPP DTL
15	MISCELLANEOUS DETAILS (1 OF 2)
16	MISCELLANEOUS DETAILS (2 OF 2)

OWNER:

ATTN: JOE BUENO YMCA OF GREATER SAN ANTONIO 3233 N. ST MARY'S STREET SAN ANTONIO, TX. 78212

CIVIL ENGINEER:

JONES | CARTER 4350 LOCKHILL-SELMA ROAD, SUITE 100 SAN ANTONIO, TX 78232 TEL: (210) 494-5511 FAX: (210) 494-5519

CONTACT: REESE H. CONNER. P.E.

JONES CARTER Texas Board of Professional Engineers Registration No. F-439

INTERIM REVIEW Not intended for construction, bidding or permit purposes. P.E. Serial No.: 87668

THIS PROJECT IS NOT WITHIN THE EDWARDS AQUIFER RECHARGE ZONE

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CARTER

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90% CD REVIEW SET NOT FOR BEGLATORY APPROVA FERNITING OR CONSTRUCTION May 18, 2016

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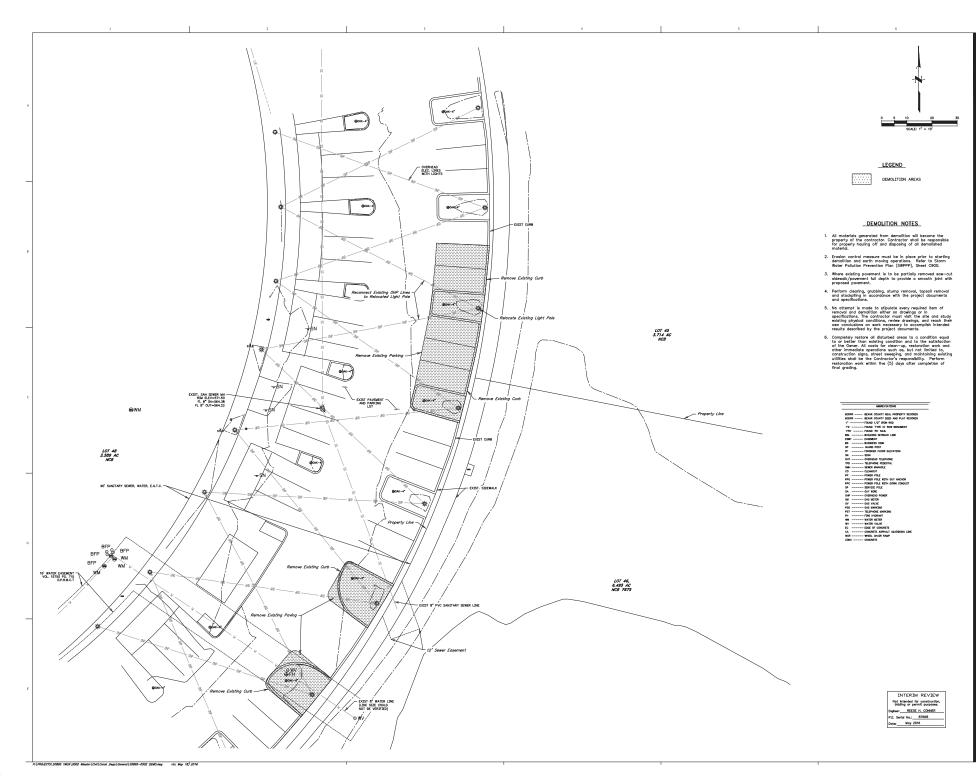
Drawn CBA/RTC
Checked RTC/RHC
Date May 18, 2016
PROJECT No. 14008
Revisions

EXISTING CONDITIONS

C200 2 OF 16

SHEET TITLE
DEMOLITION PLAN

C300 3 OF 16





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DIMENSION CONTROL PLAN

C400 4 OF 16



May 18, 2016

JENES CARTER
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MISSION PLAZA DRIVE

SHEET TITLE SITE PAVING PLAN

C500 5 OF 16



REVIEW SET

JONES CARTER
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RDJECT No. 14008
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SHEET TITLE SITE UTILITY

C600 6 OF 16

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MISSION PLAZA DRIVE

FIRE PROTECTION PLAN

Warmon Mox ARCHITECTURE 210, 223, 94927 210, 223, 28, 28, 27

MISSION PLAZA DRIVE

SITE GRADING PLAN

Mary Suite 1600 San Antonio, TX 7200 K; 51. Mary's Suite 1600 San Antonio, TX 7200 K; 50. Mary's Suite 1600 San Antonio, TX 720 K; 50. Mary's Suite 1600 San Antonio, TX 720 K; 50. Mary's Suite 1600 San Antonio, TX 720 K; 50. Mary's Suite 1600 San Antonio, TX 720 K; 50. Mary's Suite 1600 San Antonio, TX 720 K; 50. Mary's Suite 1600 San Antonio, TX 720 K; 50. Mary's Suite 1600 San Antonio, TX 720 K; 50. Mary's Suite 1600 San Antonio, TX 720 K; 50. Mary's Suite 1600 San Antonio, TX 720 K; 50. Mary's Suite 1600 San Antonio, TX 720 K; 50. Mary's Suite 1600 San Antonio, TX

JENES CARTER
Texas Board of Professional Engineers Registration No. 1330 Lockell Serve Professional Engineers Registration No.

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DRAINAGE AREA MAP PRE DEVELOPMENT



90% CD REVIEW SET

MISSION PLAZA DRIVE

DRAINAGE AREA MAP POST DEVELOPMENT



90% CD REVIEW SET

MISSION PLAZA DRIVE

DRAINAGE AREA MAP ULTIMATE DEVELOPMENT

		Mi	ssion Y	MCA						
	Rational Formula	Peak Disch	narge Ca	dcula	tions -	Pre De	velopm	ent		
Computation Node	Contributing Arms	Total Area (acres)	Tic (min)	Cr	A: De(te)	lax (in/hr)	lui (in/hr)	Q ₁ (ch)	Q _{tt} (ch)	Que (chi
	41	8.83	29	-0.68	3.568	5.089	6.750	73.7	10.6	373

			Tie	ne-of-C	oncent	ration (Calculat	ions-P	ost Devi	elopme	nt				
			Quert	and Flow				Shallow Concentrated Flow					Channel Flow		
Node	Condition	Type		Langth (%)	5ksp# (9/9)	$f_{\ell}(min)$	Payed? (N or Y)	Slope (9,/9)	Velocity (R/s)	Langth	T _i (min)	Langth (R)	Velocity (%/s)	T _c (min)	T, (min
A	Past-Des	7	0.410	93	0.005	20.6	· ¥	0.004	1.3	299	3.9	301.0	4.0	1.9	25
	Post-Dec	- 3	0.410	4.7	0.005	17.7	- 2	0.007	1.3	750	2.8	283.0	40	1.2	22

Rational Formula Peak Discharge Calculations - Post Development												
Computation Node	Contributing Areas	Total Area (acres)	Tc (min)	Cr .	ls (le/hr)	Sis (In/In/I	for (in/he)	Q _i (dt)	Q ₍₅ (ch)	Que (chi		
	-	0.64	-25	0.85	4.275	3.622	7.133	2.3	3.1	3.9		
		2.43	22	0.85	8.400	15.300	13.542	17.4	22.9	28.0		

			Time	-of-Con	centra	tion Cal	culation	ns - Ult	imate D	evelope	ment				
			Overt	and Firm	7 51 5			Shallow	Concentra	ted flow			Channel Flor		Total To
Node	Condition	Type		Length (%)	Slope (N/N)	T ₁ (min)	Paved? (N or Y)	Slope (N/N)	Velocity (R/s)	Length (Pt)	T. (min)	Length (%)	Velocity (R/s)	T _c (min)	T, (min)
	UH-One	7	0.410	94	0.005	20.0	¥	0.001	1.4	258	1.0	377.0	4.D	1.6	25
	181.Gev	7	11.410	4.0	0.005	18.0	N.	100.0	1.8	230	2.6	292.0	4.0	1.2	22

	Ratio	nal Formu	la Peak I		Mission YMCA Rational Formula Peak Discharge Calculations - Ultimate Development													
Computation Node	Contributing Areas	Total Area (sores)	Tr (min)	0	% (in/hr)	loc(in/hr)	to (in/hr)	Q ₁ (rh)	Q ₂₃ (m)	Quelifi								
		0.64	25	0.85	4.275	1.622	7.153	2.5	1.1	5.9								
	- 11	2.10	22	0.85	8.400	11.100	13.347	72.1	29.2	25.7								

MISSION YMCA - IMPERVIOUS & PERVIOUS COVER CALCULATIONS Area SY Impervious Areas Impervious Areas

[buildings | Parling Let and Driveway |
Defervable and Foundation |
Defervable and Pervious Areas |
Defervable and Defervable 14,004 66,951 23,418 30,573 104,373 234,946 1,556 7,439 2,602 3,397 11,597 14,994 Besar County, Texas VsA-Suner city leam, 0 to 1 percent slopes 147,973 16,441 32,435 2,904 8,693 12,090

Sanctifement Comment

the Salt Survey Secure Trapporter Salt Survey

Data Source Information Sol Survey Area: Street Squarp, Tonno. Survey Area Stees: Venezon 18. Sep 25, 2016 Page 1 of 5

0.321 1.537 0.538 0.702 2.396 3.098

Mary Suite 1600 San Antonio, TX 7200 K; 51. Mary's Suite 1600 San Antonio, TX 7200 K; 50. Mary's Suite 1600 San Antonio, TX 720 K; 50. Mary's Suite 1600 San Antonio, TX 720 K; 50. Mary's Suite 1600 San Antonio, TX 720 K; 50. Mary's Suite 1600 San Antonio, TX 720 K; 50. Mary's Suite 1600 San Antonio, TX 720 K; 50. Mary's Suite 1600 San Antonio, TX 720 K; 50. Mary's Suite 1600 San Antonio, TX 720 K; 50. Mary's Suite 1600 San Antonio, TX 720 K; 50. Mary's Suite 1600 San Antonio, TX 720 K; 50. Mary's Suite 1600 San Antonio, TX 720 K; 50. Mary's Suite 1600 San Antonio, TX

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TOAS BOAT of Professional Engineers Registration No. F-439 1930 Lookship Hond, June 1930 - 3 no Assess, Teach Ristle - 2009 43.311

MISSION FAMILY YMCA

MISSION PLAZA DRIVE

DRAINAGE CALCS

INTERIM REVIEW Not intended for construction, bidding or permit purposes.

Engineer: REESE H. CONNER
P.E. Serial No.: 87668
Date: May 2016

Warmon Mox

90% CD REVIEW SET

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Drawn CBA/RTC Checked RTC/RHC Date May 18, 2016 PROJECT No. 14008 Revisions

SHEET TITLE SWPPP

C900 13 OF 16

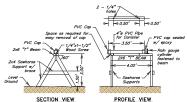
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S

SWPPP DTL

GENERAL S.W.P.P.P. NOTES:

- The location of Erosion and Sedimentation Control facilities are approximate. Contractor may modify, relocate, or add facilities with prior authorization from the Engineer.
- Where a note or detail differs from the official Texas Commission On Environmental Quality (TCEQ) latest edition regulations, the TCEQ note or detail shall apply.

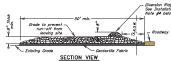


NOTES:

- This conleter shall be used to store the complete Storm Water Pollution Prevention Plan (SWPPP) and all other related documents so that they are calibate on-site for the Despector. adjacent to the construction enteriors and on the opposite side of the Concrete Wishout Prevention.

S.W.P.P.P. DOCUMENT CONTAINER





MATERIALS:

- 1. The approprie should consist of four (4) both to eight (5) inch worked stone over a state foundation as specified in the pie with a minimum thickness of eight (5) horizon. The potential forth could be designed perceitably for use a call of distruction and with an experiental weight of 5 or, fuyure, a livine four in right of 1-50 furtish, and on it is a state of the country of the country

INSTALLATION:

- PASTALATION:

 A noted curves on public roods and steep stopes. Remove vegetation and other objectionable metaled from the foundation owns, Grade a crose in the center of the foundation for the facility and the facility and the self-tree level () Feet or the fall within 4C pit.

 3. The first should be at level thin, ((oi) held long.

 4. If the single beard the rood served the CD percent, construct a diversion ridge is (oi) foundation at apprehending filters (1) feet from the fall to diversion ridge is (oi) foundation at apprehending filters ((oi) feet from the fall to divert nord levely from the fall to divert nord levely from the construction of the fall to divert nord levely from the construction of the fall to divert nord levely from the construction are entitiplest.

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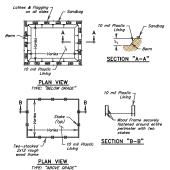
 2. Divert oil surface insufficient cond grads shown on plans. Level the surface smooth and signed for diversion from the condition of the fall to divert nord of the condition of the

INSPECTION AND MAINTENANCE GUIDELINES:

- The Exit should be maintained in a condition which will prevent the tracking and flowing of sediment into public right-of-way. This may require a periodic top dressing of additional stone as conditions demand and repairing and/or cleaning out any measures used to trap

- side of constant demand and reporting analy or decembing out day inecures used to trap
 All seddment splittle, dropped, seeded or tracked into the splatic right-of-way bound be
 Described to the splittle of t

TEMPORARY CONSTRUCTION EXIT

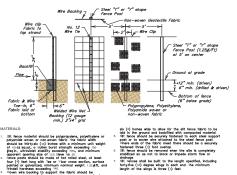


- NOTES:

 2. Actual topout to be determined in the field.

 2. Templorary controls exacted bothly should be constructed ofthe control of the con

CONCRETE WASHOUT AREA



- As Executed.

 If these motherial should be polyproplyme, polyethylene or polyminia severe or non-event fields. Its flower field should be a severe or non-event fields. Its flower field should be a severe or non-event field should be a severe or non-event field should be a severe field should be previously stated to a severe field should be previously stated to the severe field should be previously taken (c.1) gauge minimum two by four (xxx) into needed severe.

- TRILLATION:

 The point supporting the sit fence should be intelled on must be embedded a minimum of one (2) find deep and support of the point of the control of the contro

- WESTERTON AND MANTENANCE GUIDELINES

 Inspection should be most weekly and find reach rimited by
 the responsible strip. In the control of these
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INSPECTION AND MAINTENANCE GUIDELINES:

SILT FENCE

INTERIM REVIEW Not intended for construction, bidding or permit purposes. Engineer: REESE H. CONNER P.E. Serial No.: 87668 Date: May 2016

P. | FRO. FCTS | SORES 1980 | 1000 | Minerice | Chil. Const. General SORES - 0002 SWEEP days to May 18, 2016



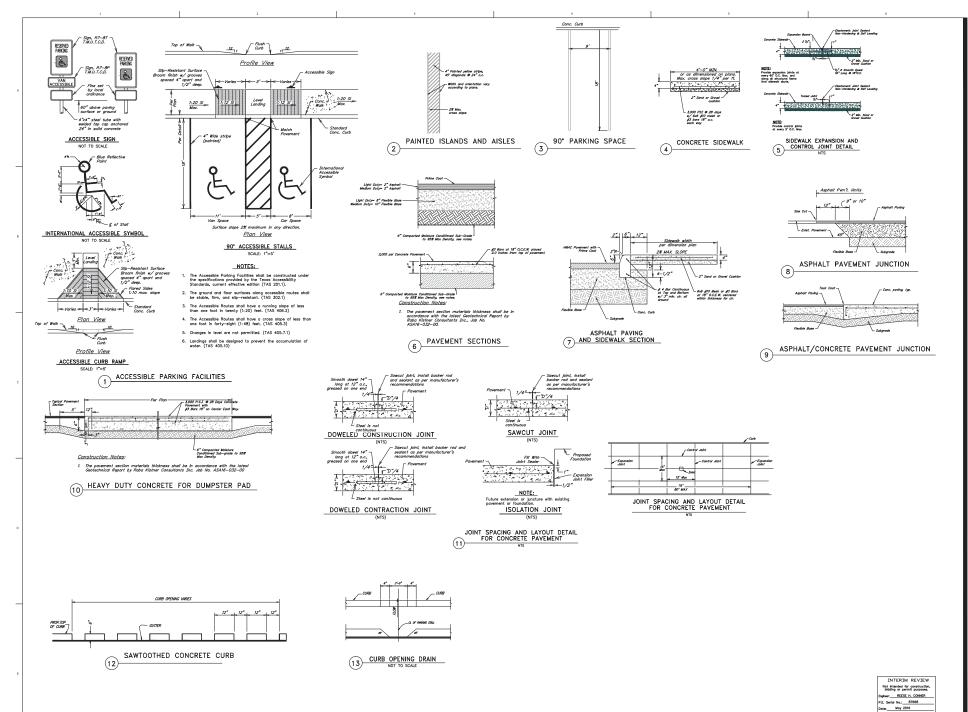
REVIEW SET

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MISCELLANEOUS DETAILS (1 OF 2)

C1000 15 OF 16

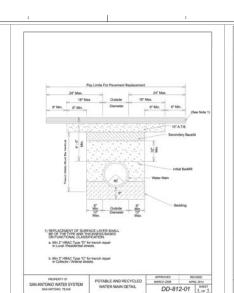


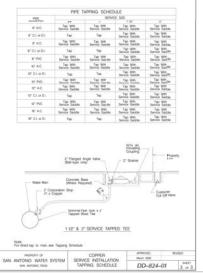
Priprocetts | Scene | Machilogoz Mission | Chili Const. Dega | Details | Scene -0002 MSC DTL day | ric: May 18, 2016

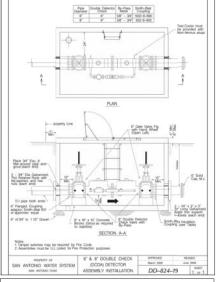
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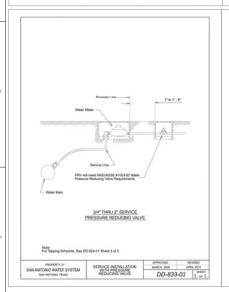
MISCELLANEOUS DETAILS (2 OF 2)

C1001









PI_PROJECTS|SCRRS YMCN|ODG2 Mission|Chil|Conet Degs|Dehale|SCRRS-OGG2 MISC DTL.day rtc: May 18, 2016

ATB.

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Le Min

** Min 2" HBAAC Type "D" for trench repair in Local / Basisferdial streets.

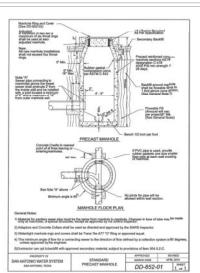
** Min 3" HMAC Type "C" for trench repair in Collector / Arterial streets.

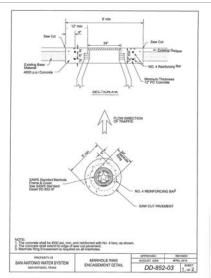
DD-804-01 1 or 1

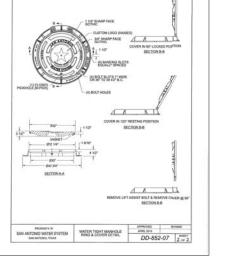
E'Min.

* Sewer Gravel 6"Min. or 1/8: O.D. of the pipe, whichever is greater.

PROPERTY OF SAN ANTONIO WATER SYSTEM BANANTONIO, TEXAS







INTERIM REVIEW

Not intended for construction, bidding or permit purposes.

Engineer: REES H. CONNER

P.E. Seriol No.: 87688

Date: May 2018

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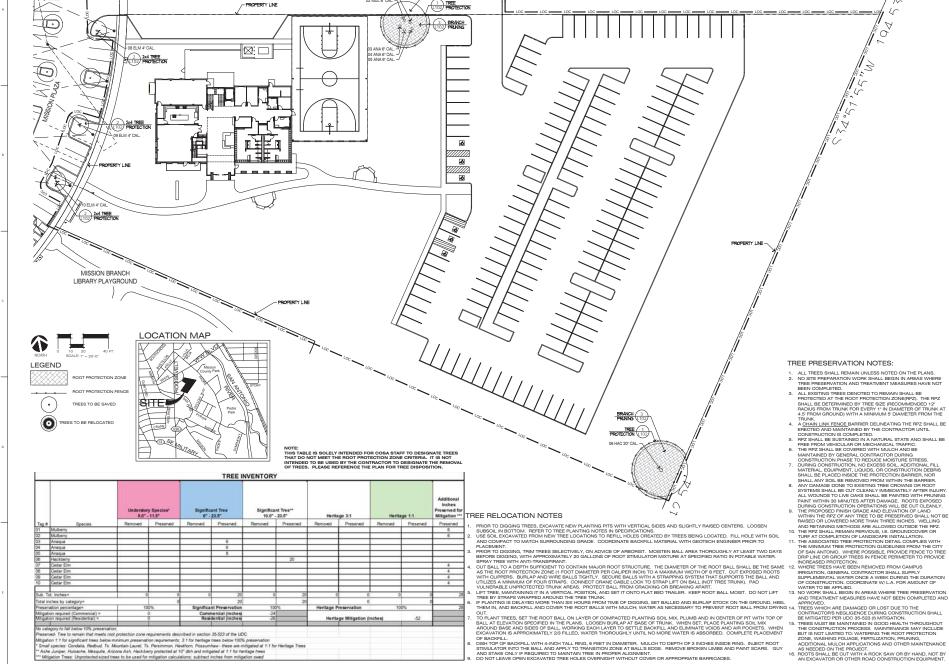
Preservation Plan

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AND TREATMENT MEASURES HAVE NOT BEEN COMPLETED AND AND TREATMENT MEASURES HAVE NOT BEEN COMPLETED AND A 14. TREES WHICH ARE DANAGED ON LOST DUE TO THE CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE WITHGATED PER LUCE SESSED RIMIDATION. THE CONSTRUCTION PROCESS. MAINTENANCE MAY INCLUDE BUT IS NOT LIMITED TO: WASTERING THE ROOT PROTECTION COME, WASHING FOLLAGE, PETRILL'STON, PRULING AS NEEDED ON THE PROJECT.

AS NEEDED ON THE PROJECT.

18. ROOTS SHALL BE CUT WITH A ROOK SAW OR BY HAND, NOT BY AN EXCANTION OF OTHER MAINTENANCE.

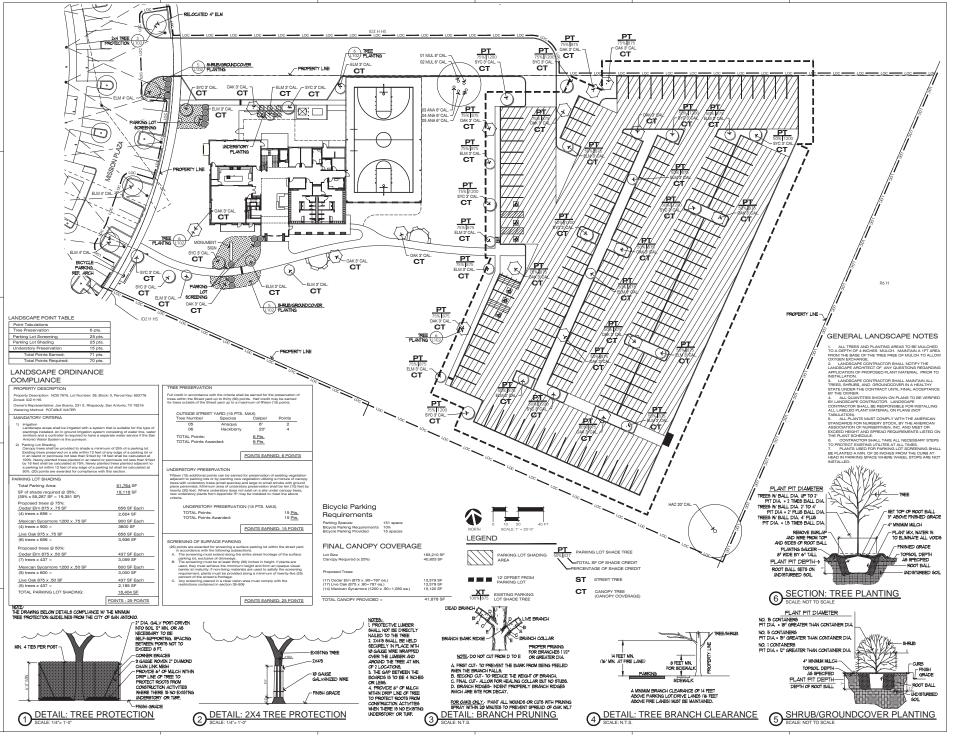


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07 ELM 4" CAL



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Landscape Ordinance Plan

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Date 05/23/2016

PROJECT No. 14011

Revisions

SHEET TITLE Planting Plan

SHEET NO.

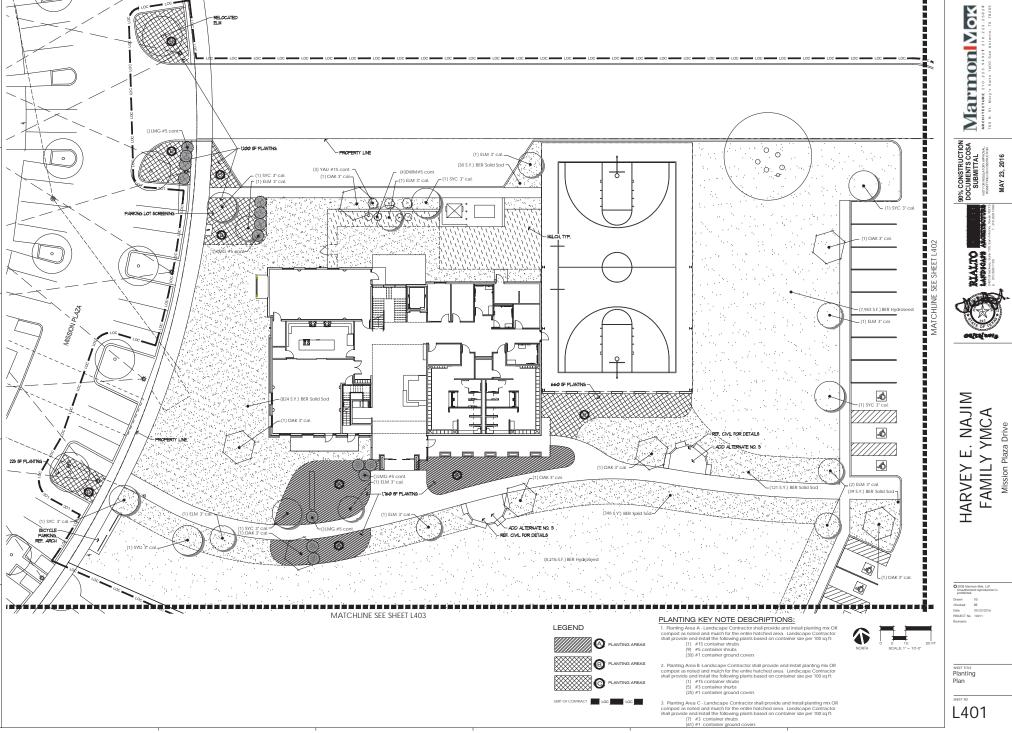
8. LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF ANY QUESTIONS REGARDING APPLICATION OF PROPOSED PLANT MATERIAL PRIOR TO INSTALLATION.

9. MODIFY EXISTING IRRIGATION TO ACCOMMODATE NEW PLANT AND HARDSCAPE

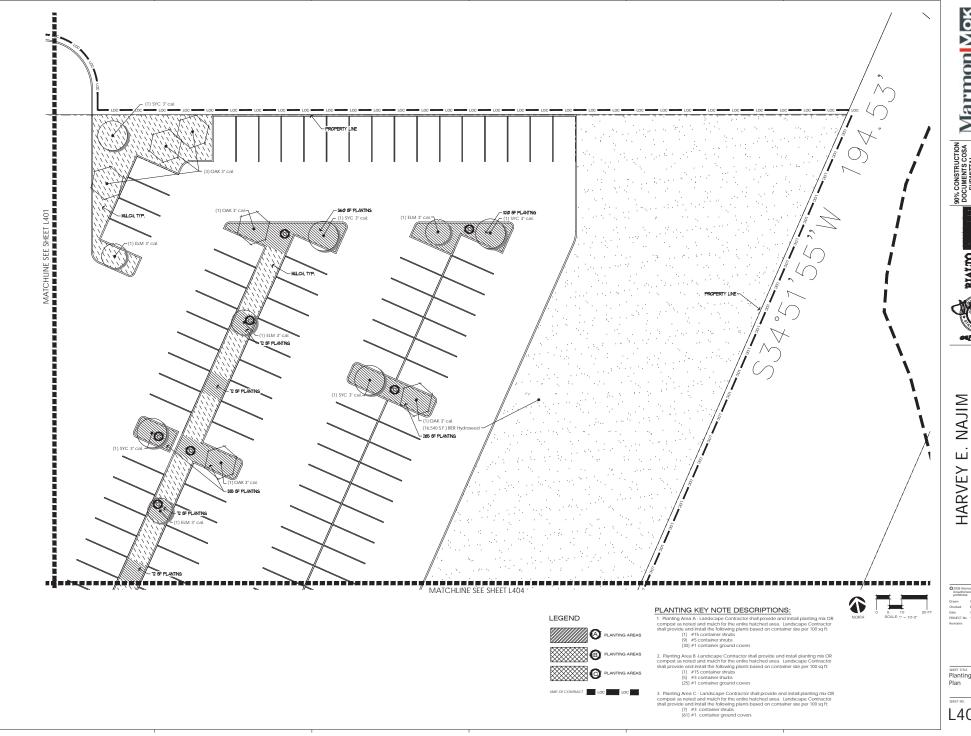
LAYOUT.

3. ALL PLANTING AREAS SHALL BE EXCAVATED TO 1.72 BELOW FINGH GARDE ELEVATIONS. ALL PLANTING AREAS SHALL RECEIVE A MINIMUM OF 0° FOIL MIX AND 4° OF BOIL MIX AND 4° OF BOIL MIX AND 4° OF BOIL MIX AND 4° OF MILLOH, PROVIDE SAMPLE FOR APPROVAL BY LANDSCAPE ARCHITECT.

4. ALL TURF AREAS SHALL BE EXCAVATED TO A DEPTH OF 4° BELOW FINISH GRADE ELEVATIONS ALL TURF AREAS SHALL RECEIVE 4° OF MIXED SOIL WITH COMPOST, PROVIDE SAMPLE FOR APPROVAL BY LANDSCAPE ARCHITECT.







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Mission Plaza Drive

SHEET TITLE Planting



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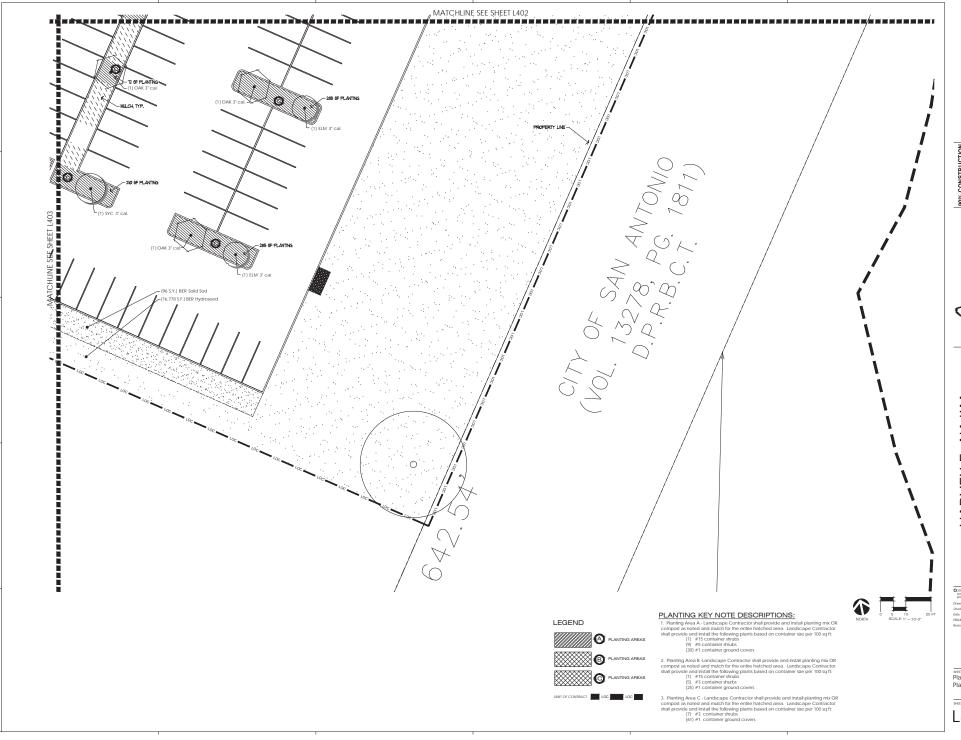
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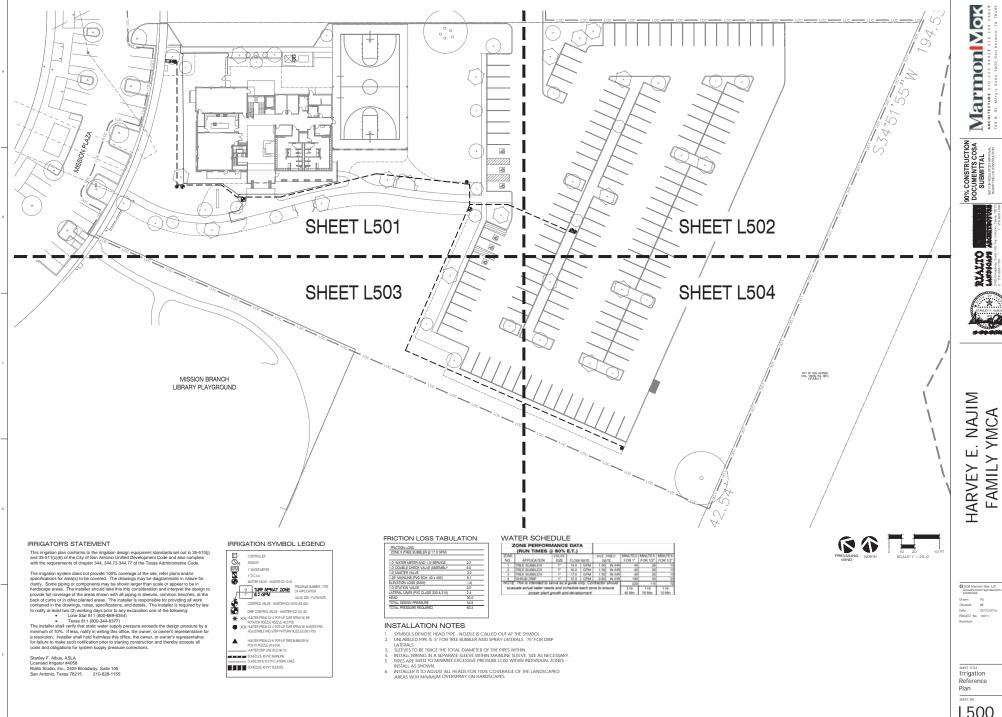
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Revisions

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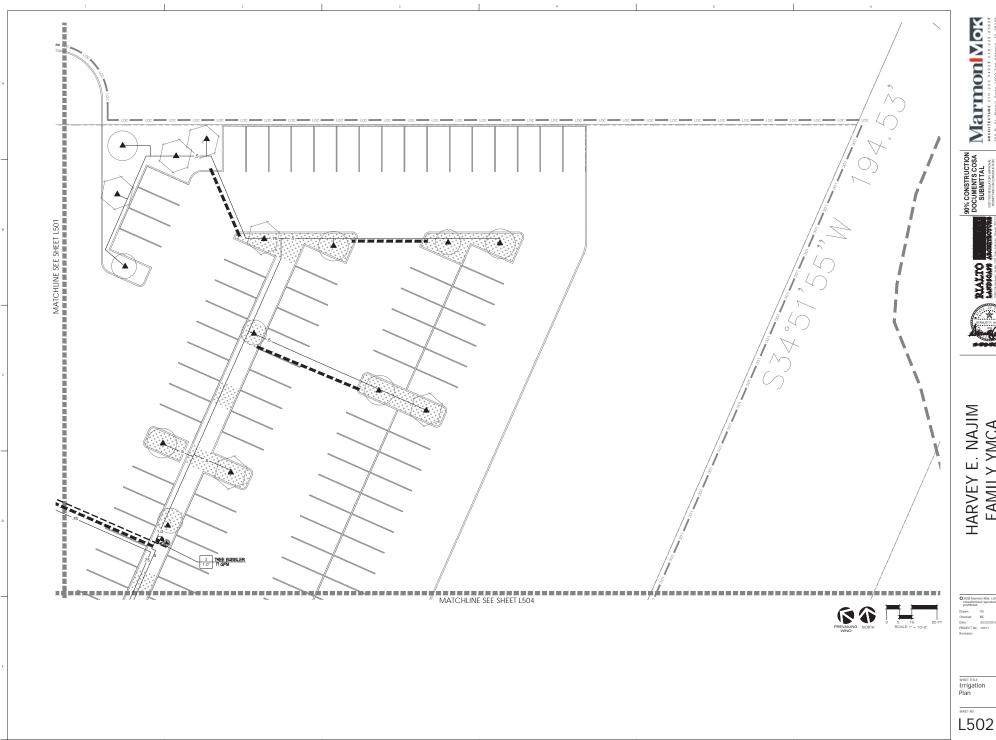
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SHEET TITLE Irrigation Plan



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Mission Plaza Drive

Irrigation Plan



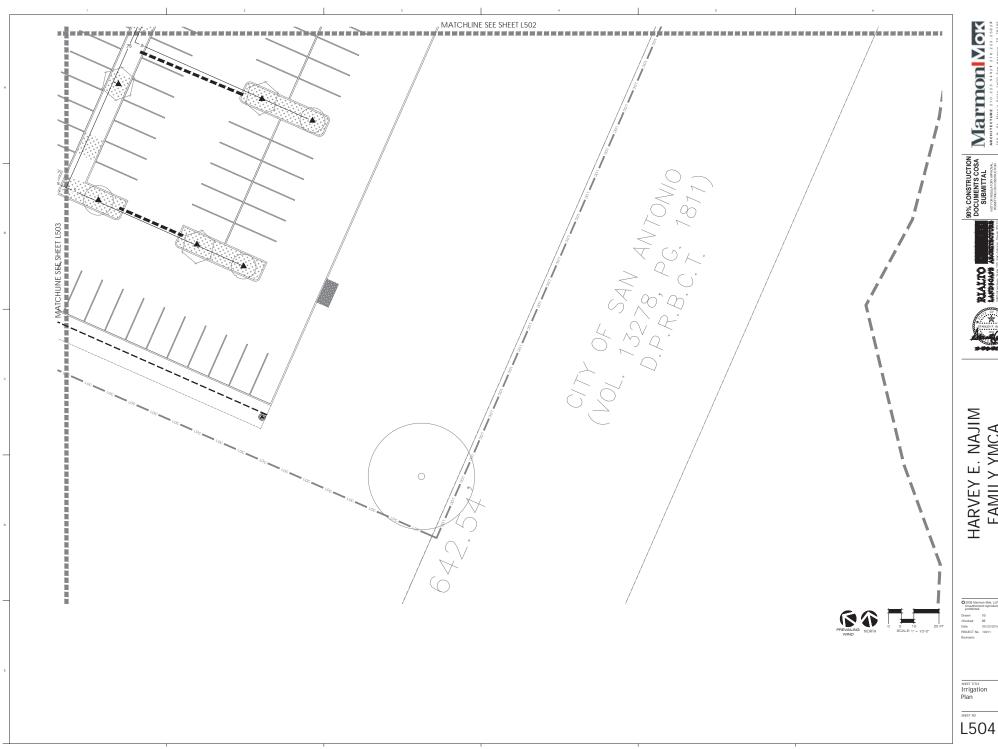






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Mission Plaza Drive

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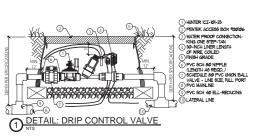
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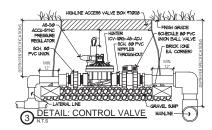
Irrigation Plan

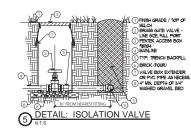
SHEET TITLE

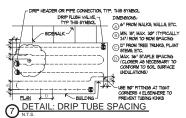
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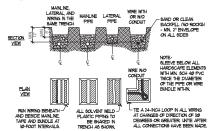
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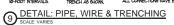


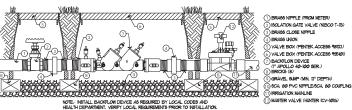










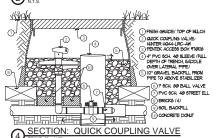


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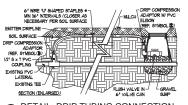
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HEALTH DEPARTMENT, VERFY LOCAL REQUIREMENTS FROM TO NOTAL LATION

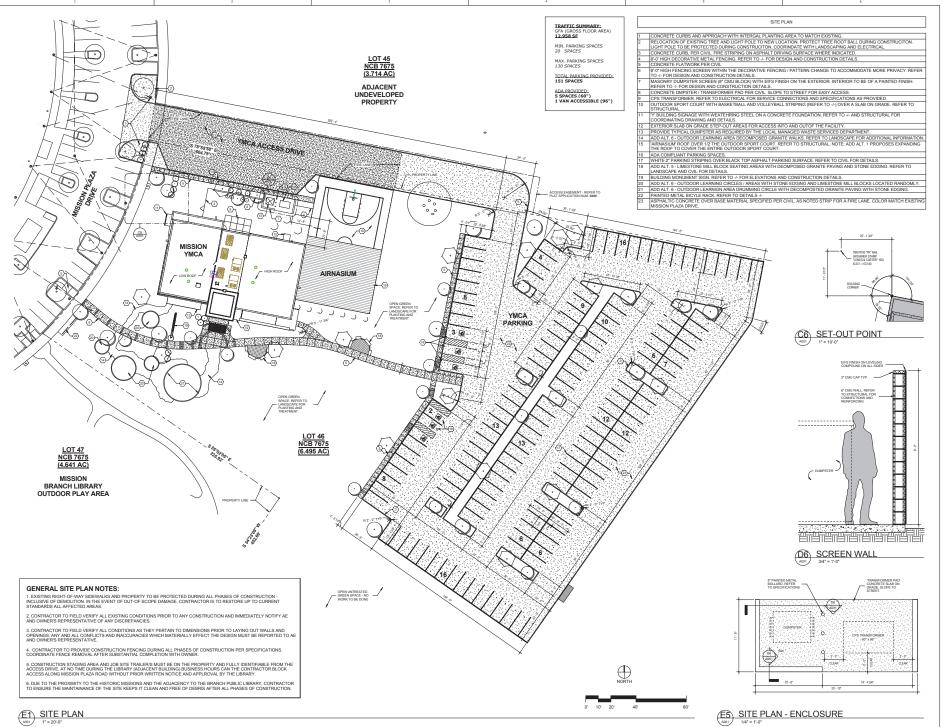
DETAIL: ISOLATION VALVE / BACKFLOW PREVENTER / MASTER VALVE
N.T.S. MASTER VALVE (HINTER ICY-101G



→ FINISH GRADE (II)-①1 r(0) r(0) PVC SCH 40 NIPPLE PVC SCH. 40 ELL LATERAL PIPE PVC SCH 40 TEE OR ELL 8 TREE ROOT BALL 9 TREE WELL 6 DETAIL: TREE BUBBLER (4) (9) (i) SOIL BERM ① MULCH



8 DETAIL: DRIP TUBING CONNECTION



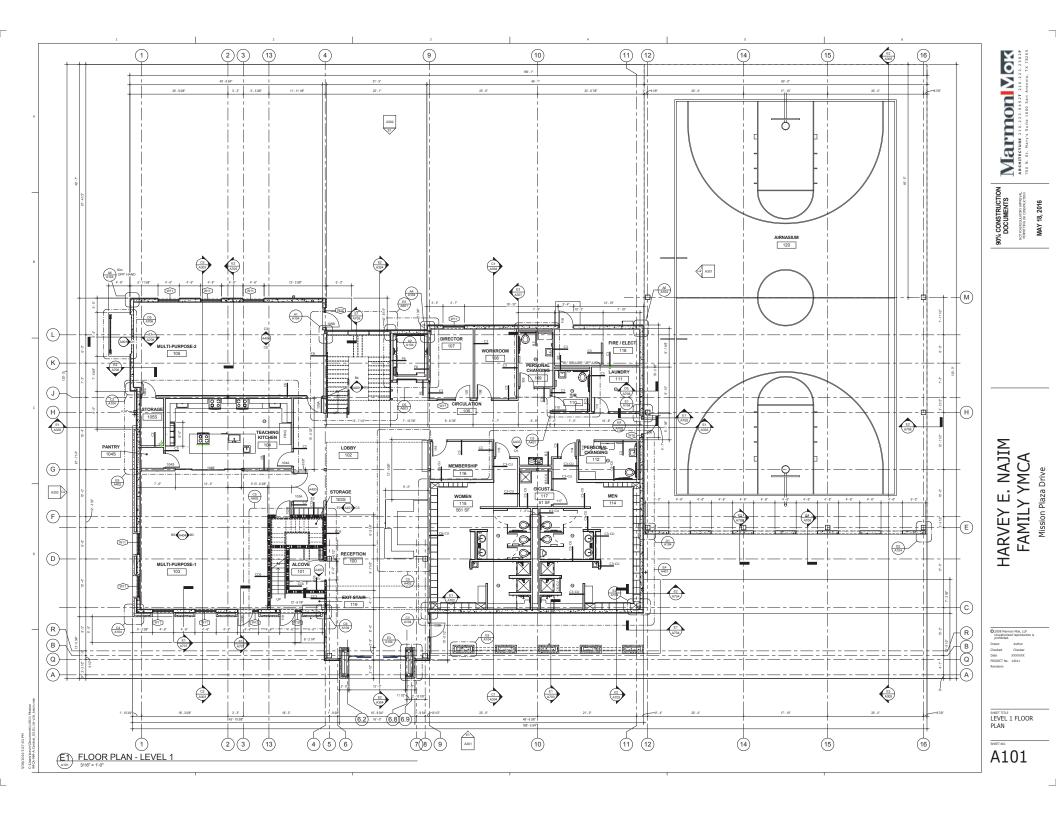
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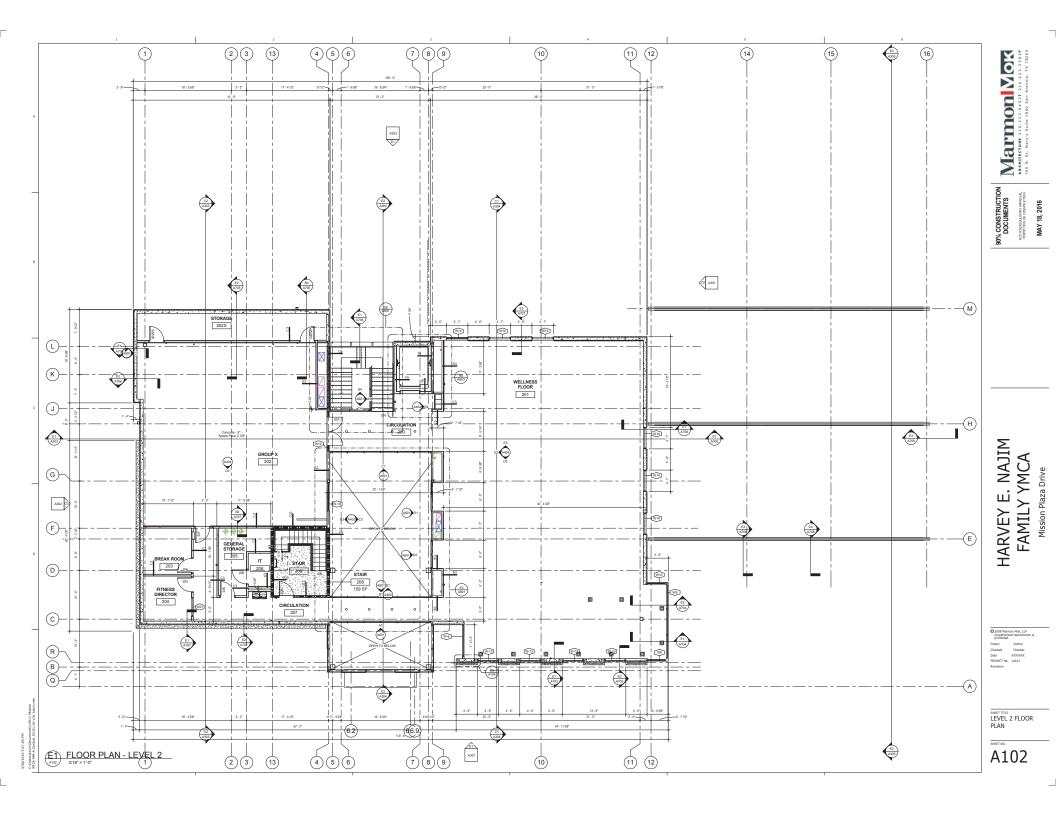
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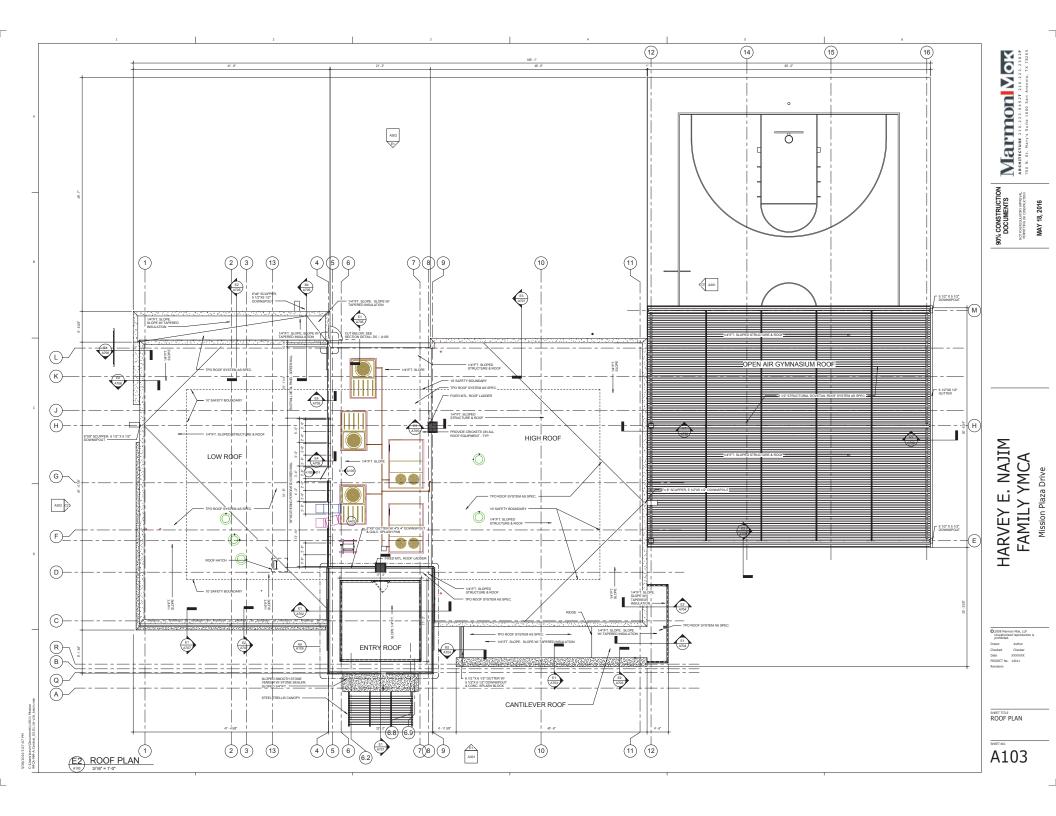
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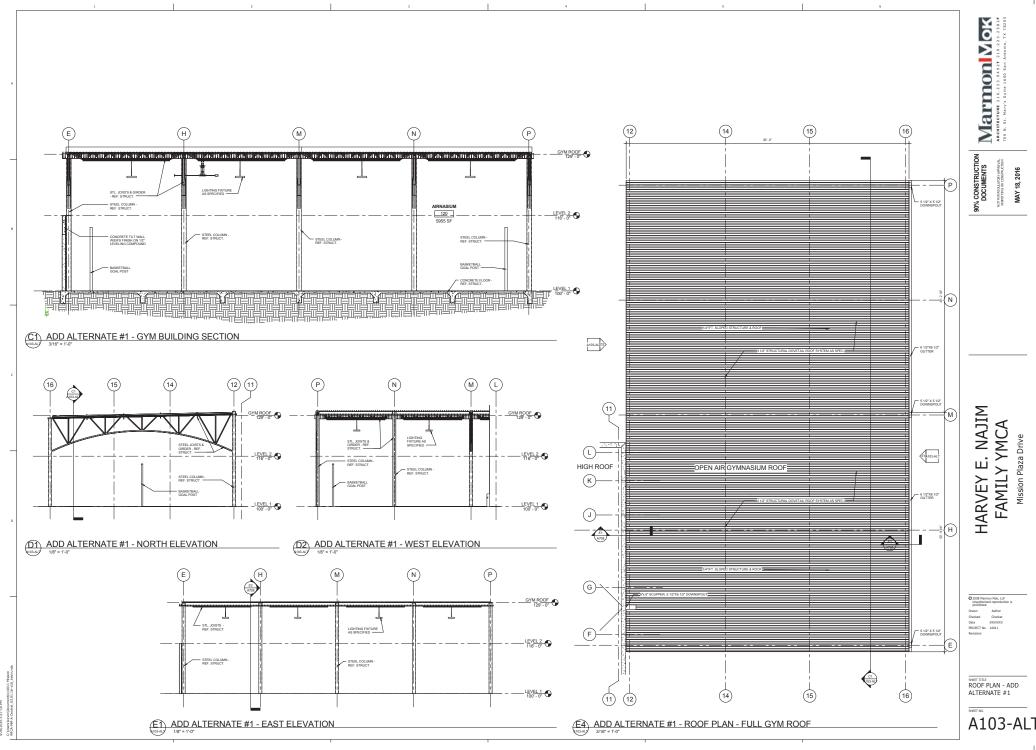
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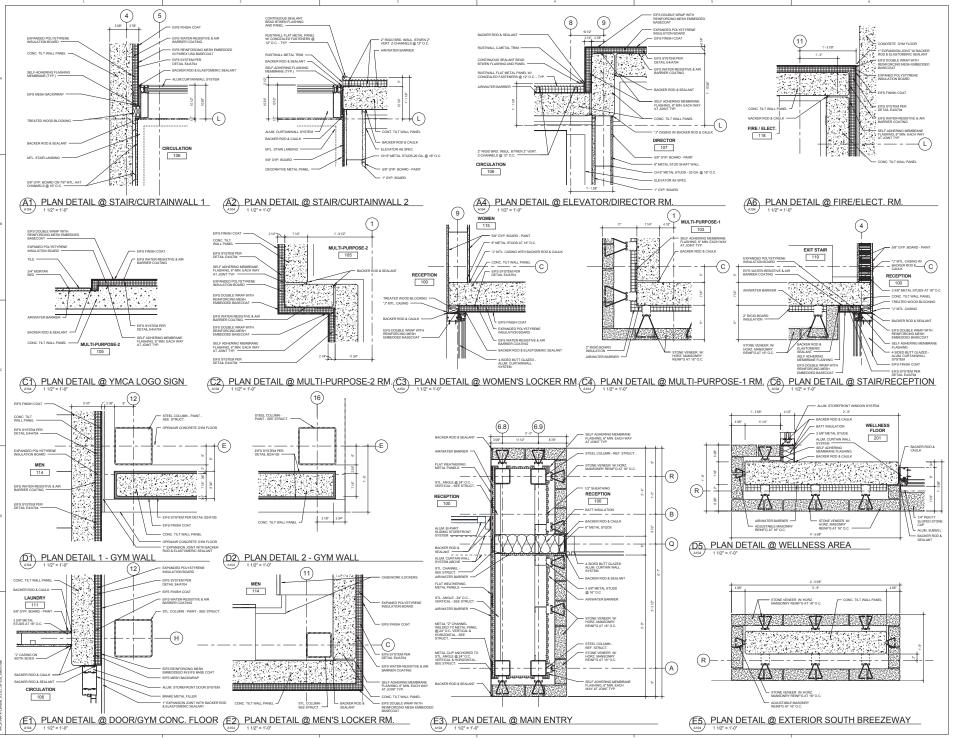
SITE PLAN









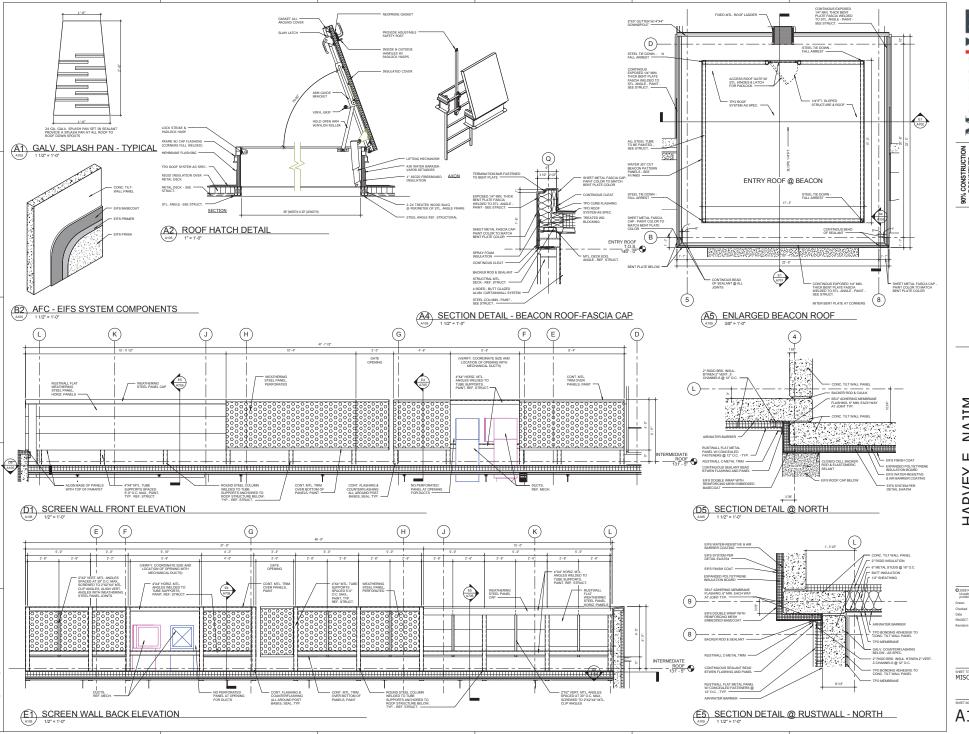


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PLAN DETAILS



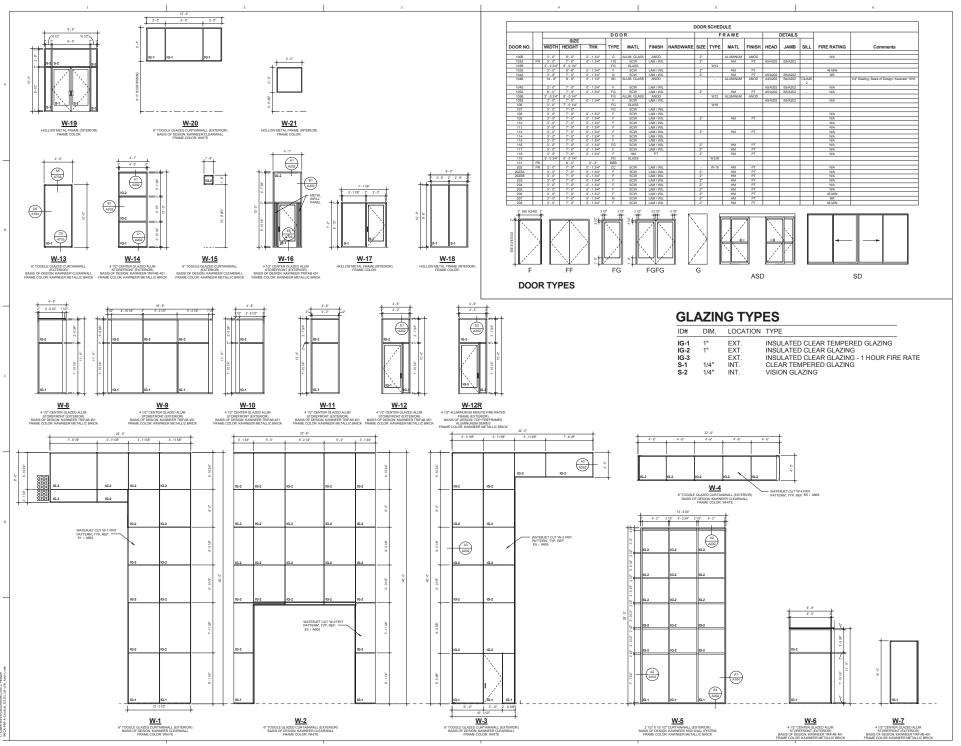
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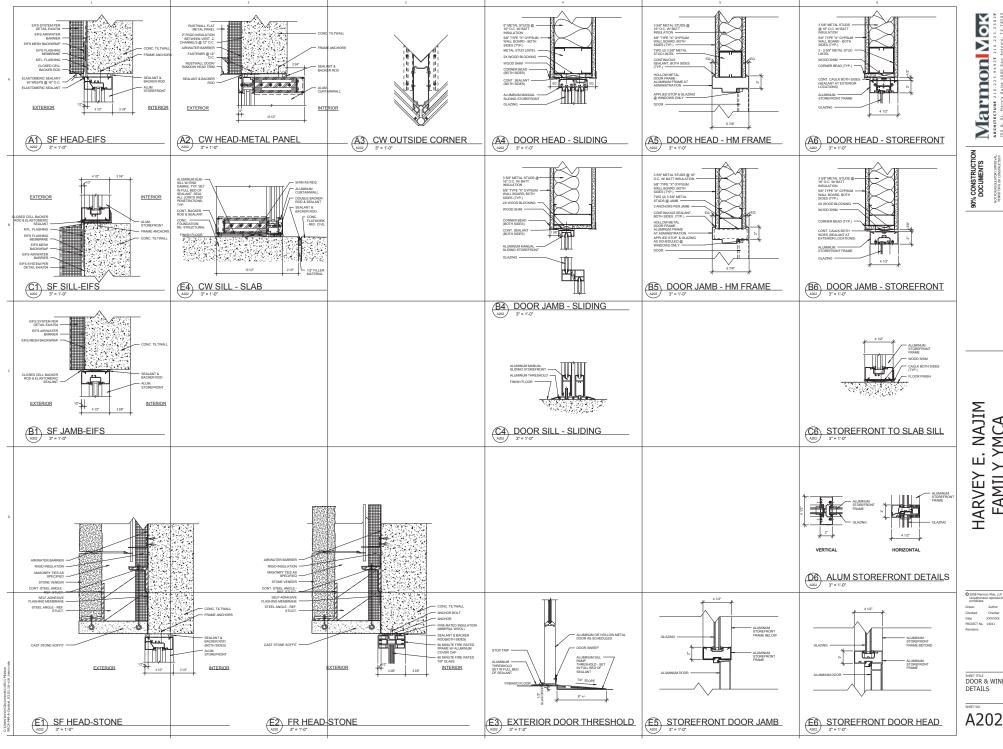


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DOOR & WINDOW SCHEDULES, TYPES



FAMILY YMCA

DOOR & WINDOW

LOCKER SCHEDULE									
SYMBOL	DESCRIPTION	MATERIAL	COUNT	WIDTH	HEIGHT	DEPTH			
L-01	Z-LOCKER	PHENOLIC	42	1" - 6"	5" - 0"	1' - 6"			
L-02	STACKED LOCKERS	PHENOLIC	6	1" - 0"	5" - 0"	1' - 0"			
L-03	STACKED LOCKERS	PHENOLIC	4	1' - 0"	5" - 0"	1' - 6"			
L-04	STACKED LOCKERS	PHENOLIC	6	1" - 0"	5' - 0"	1' - 0"			
L-05	STACKED LOCKERS	PHENOLIC	5	1" - 0"	5" - 0"	1' - 6"			

1-5	1-0	6' 6'
5	9 :	
	B 5	
5.5	0.0	
2.5 0 1 11 1	• ·	9 9 to
	9 5	0 5
L-01	L-02	L-04
	L-03	L-05

O LOCKER TYPES

		EQUIPME	NT SCHEDU	ILE				
SYMBOL	EQUIPMENT	PROVIDED/ INSTALLED	COUNT	MOUNTING HEIGHT	POWER	DATA	PLUMBING	COMMENT
								•
E-1	UNDERCOUNTER DISHWASHER	CF/CI	1	N/A	Yes	No	Yes	
E-2	SLIDE-IN ELECTRIC RANGE	CF/CI	3	N/A	Yes	No	No	
E-3	UNDERCOUNTER ICE MAKER	CF/CI	1	N/A	Yes	No	Yes	
E-4	REACH-IN SOLID SWING DOOR DUAL TEMPERATURE REFRIGERATOR/FREEZER	CF/CI	1	N/A	Yes	No	Yes	
E-5	HIGH IMPACT MIRROR	CF/CI	7	SEE ELEVATION	No	No	No	
E-6	RANGE HOOD	CF/CI	2	SEE ELEVATION	No	No	No	
E-7	VENDING MACHINE	OF/CI	2	N/A	Yes	Yes	No	
E-08	WEIGHT TRAINING EQUIPMENT	OF/OI	1	N/A	No	No	No	1
E-09	CARDIO EQUIPMENT	OF/OI	1	N/A	Yes	Yes	No	1

			BASE	WALLS				MILLWORK		
NUMBER	NAME	FLOOR		NORTH	EAST	SOUTH	WEST	UNITS	TOP	WAINSCOT
100	RECEPTION	PC-1			PT-1, PT-2	L	IPT-1	VARIES	SSM-2	L
101	ALCOVE	PC-1		PT-1	PT-1	PT-1	PT-2	PI-4	SSM-2	-
102	LOBBY	PC-1		PT-1	PT-1 PT-2	F 1-1	PT-1 PT-4	VARIES	SSM-2	
103	MULTIPURPOSE-1	RAF-1	RB-2	PT-1	PT-1	-	1111,1114	VAULU	- DOMPA	
103	STORAGE	PC-1	ND-2	PT-1	PT-1	PT-1	PT-1			
104	TEACHING KITCHEN	PC-1		PT-1	PT-1	PT-1	PT-1	VARIES	SSM-2	
1048	PANTRY	PC-1		PT-1	PT-1	PT-1	1111	VAULU	55000	-
105	MULTIPURPOSE-2	RAF-1	RR.2	1111	PT-1	PT-1	-			-
1058	STORAGE	PC-1	TOPE	PT-1	PT-1	PT-1				
106	CIRCULATION	PC-1		PT-1	P1-1	PT-1 PT-8				
107	DIRECTOR	CPT-1	RR-1	PI-I	PT-1	PT-1, P1-0	PT-1			
107	WORKROOM	CPT-1	RB-1		PT-1	PT-1	PT-1			
100	PERSONAL CHANGING	FT-1	TR-1	PT-1 WT-1	PT-1 WT-1	PT-1 WT-1	PT-1 WT-1			WT-1
110	T/R	FT-1	TR-1	PT-1, WT-1	PT-1, WT-1	PT-1, WT-1	PT-1, WT-1			WT-1
111	LAUNDRY	PC-1	10-1	PT-1	P1-1, W1-1	PT-1, W1-1	PT-1, W1-1			W 1-1
112	PERSONAL CHANGING	FT.1	TR-1	PT-1 WT-1	PT-1, WT-1	PT-1, WT-1	PT-1 WT-1			WT-1
112	MEN CHANGING	CPT-2. FT-1	RB-1, TB-1		PT-1, WT-1	PT-1, WT-1	PT-1, WT-1		88M-1	
114				PT-1, WT-1			PT-1, WT-1			
115	WOMEN MEMBERSHIP	CPT-2, FT-1	RB-1, TB-1	PT-1, WT-1	PT-1, WT-1	PT-1, WT-1	PT-1, WI-1		SSM-1	
117	CUST.	PC-1	****	PT-1, WT-1	PT-1	PT-1	PT-1, WT-1			WT-1
118	FIRE / ELECT.	PC-1		PT-1	PT-1	PT-1	PT-1			
119	EXIT STAIR AIRNASI IM	PC-1				_				
				PT-1	PT-1	PT-1	PT-1			
200	CIRCULATION	PC-1			PI-1	PI-1	PT-1			
201	WELLNESS FLOOR	RAF-2	RB-3							
202	GROUP X	WAF-1	WB-1	PT-1	PT-1, PT-6	PT-1				
2028	STORAGE	PC-1			-	PT-1				
203	BREAK ROOM	PC-1		PT-4	PT-1	PT-1				
204	FITNESS DIRECTOR	CPT-1	RB-1	PT-1	PT-1					
205	GENERAL STORAGE	PC-1		PT-1	PT-1	PT-1	PT-1			
206	IT	PC-1		PT-1	PT-1	PT-1	PT-1			
207	CIRCULATION	PC-1		PT-1	PT-1	PT-1	PT-1			
208	STAIR	PC-1		PT-1	PT-1	PT-1	PT-1			

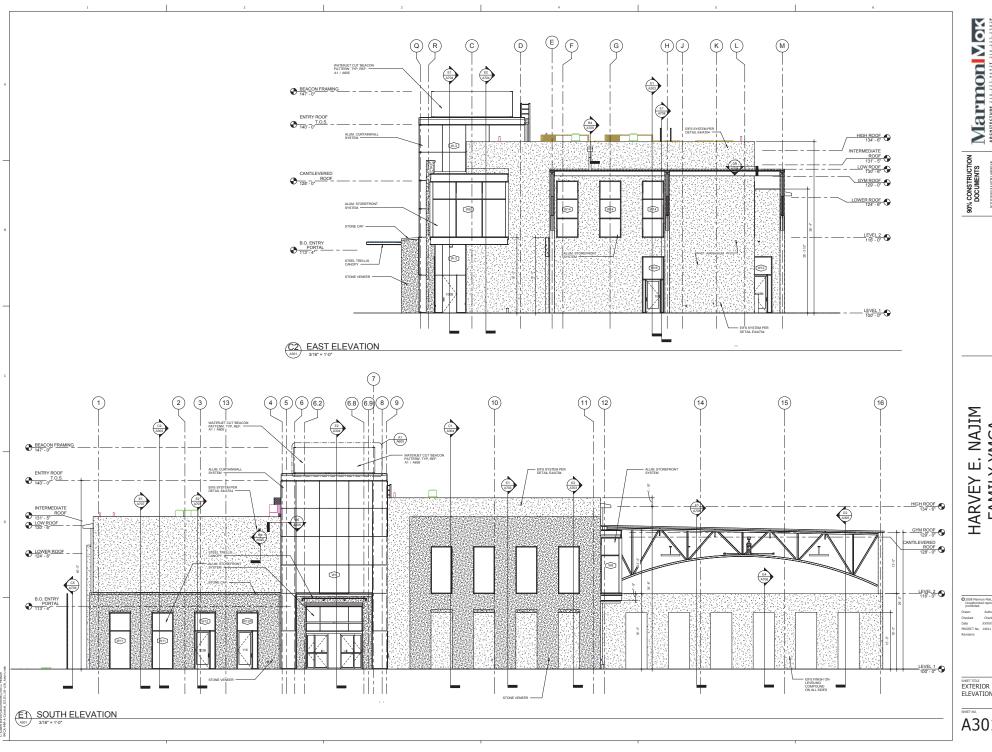
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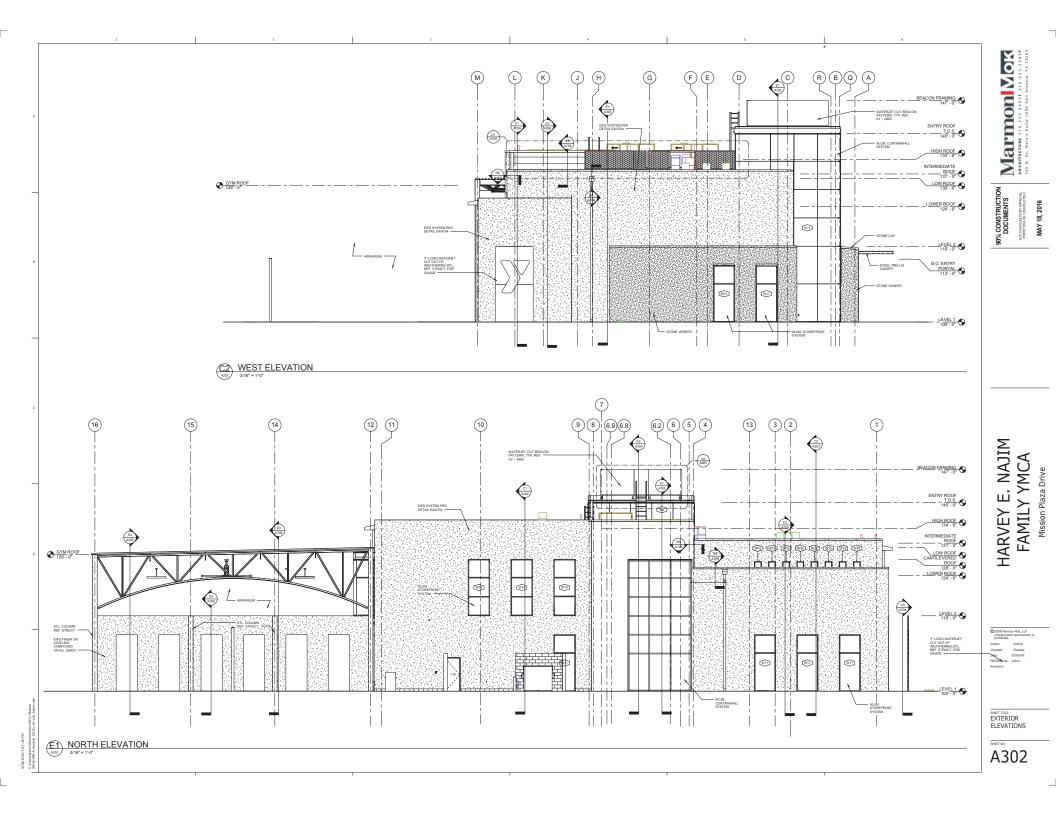
SHEET TITLE SCHEDULES

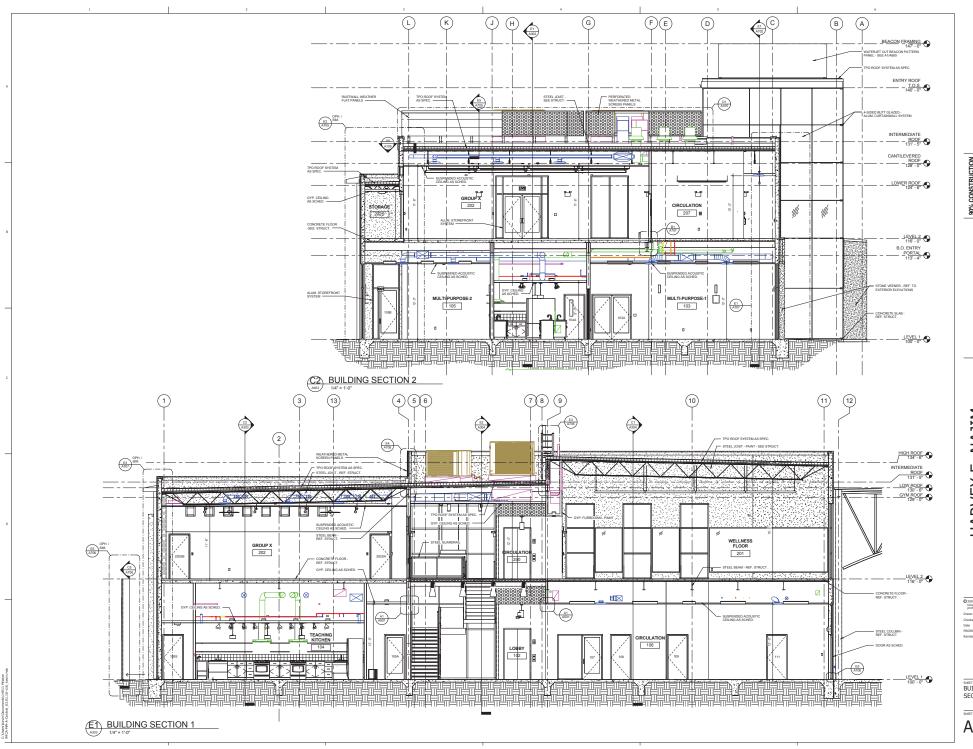


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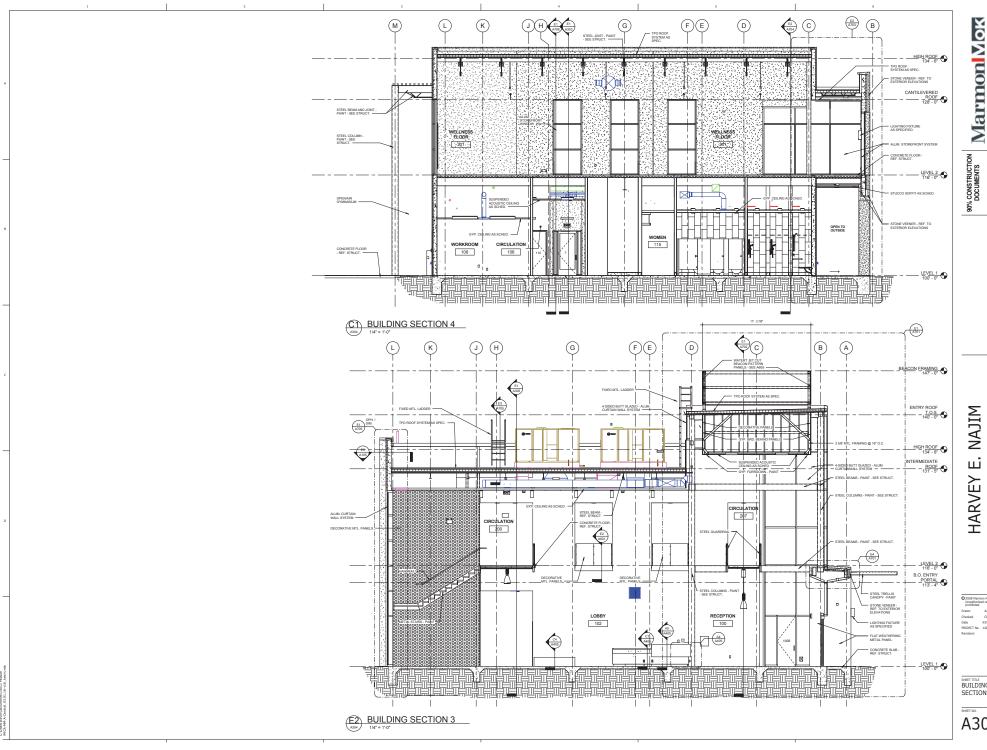
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SHEET TITLE BUILDING

SHEET NO. A 303



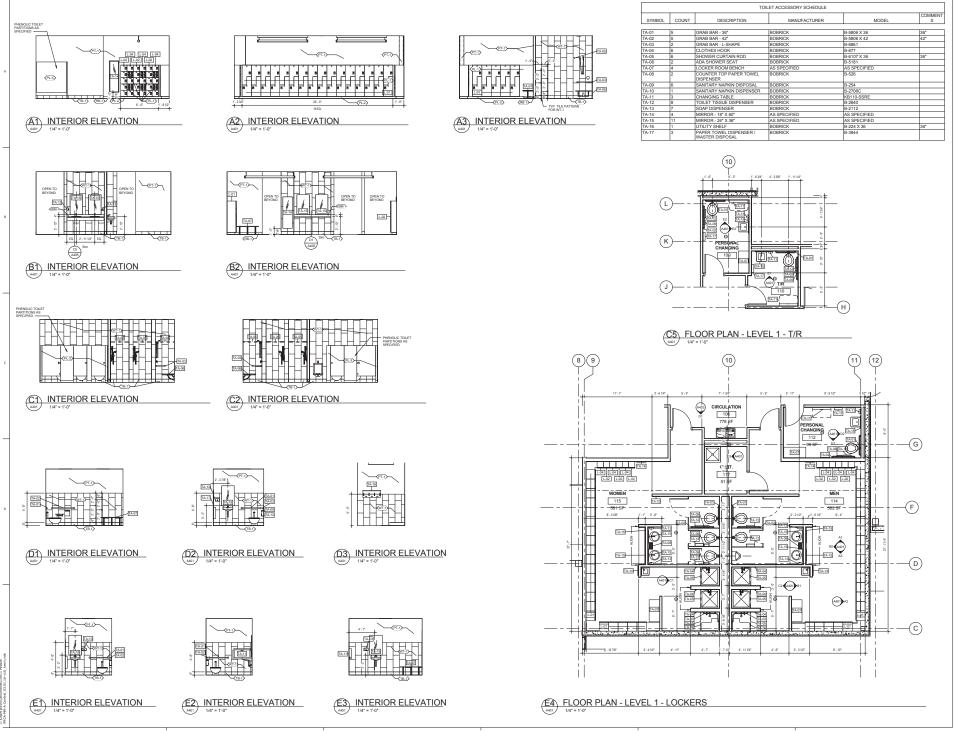
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SHEET TITLE BUILDING



FAMILY YMCA

BUILDING SECTIONS



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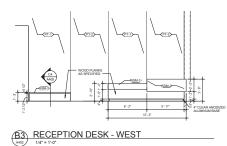
ENLARGED FLOOR PLANS

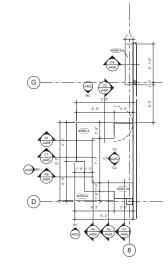
SHEET TITLE ENLARGED FLOOR PLANS

A402









C5 FLOOR PLAN - LEVEL 1 - RECEPTION DESK

FLOOR PLAN - LEVEL 1 - KITCHEN

105S

104S

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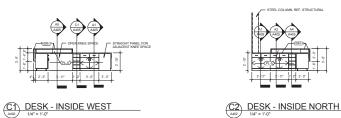
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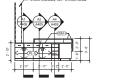
A402

(3)

TEACHING INTCHEN



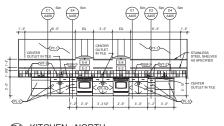


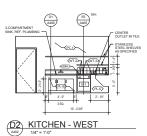


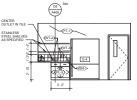




OBSK - INSIDE SOUTH

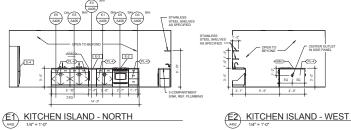


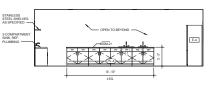












KITCHEN ISLAND - SOUTH



90% CONSTRUCTION DOCUMENTS

MOT TO DESCOLATOR APPROVE, RENETTY OR CONSTRUCTION

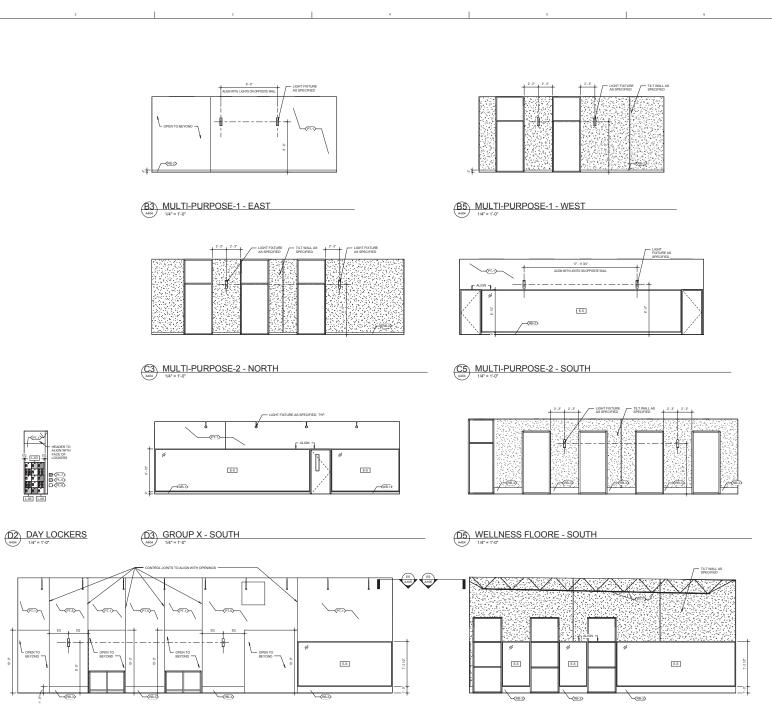
HARVEY E. NAJIM FAMILY YMCA Mission Plaza Drive

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SHEET TITLE
INTERIOR
ELEVATIONS

SHEET TITLE INTERIOR ELEVATIONS

A404



WELLNESS FLOOR - NORTH

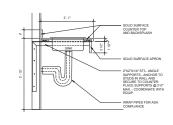
WELLNESS FLOOR - WEST

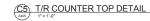
PRELIMINARY SCHEMATIC DESIGN

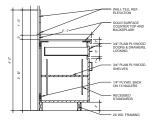
FAMILY YMCA

MISSION

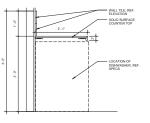
A5 DESK DETAIL 4



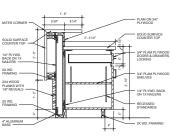




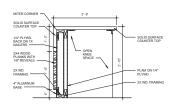




BASE CABINET DETAIL



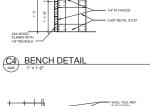
A2 DESK DETAIL 2



C2 DESK DETAIL 6

D2 BASE CABINET DETAIL

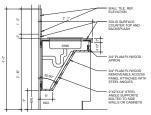
1" = 1'-0"



SOLID SURFACE

2X WD. FRAMING •

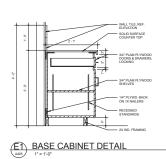
A4 DESK DETAIL 3



SINK APRON DETAIL





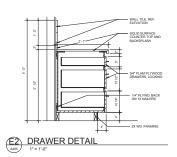


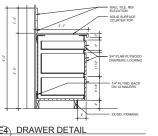
T/R COUNTER TOP DETAIL

1" = 1'-0"

A1 DESK DETAIL 1

C1 DESK DETAIL 5





DRAWER DETAIL

A405 1" = 1'-0"

SHEET TITLE MILLWORK DETAILS

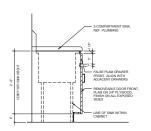
LOCATION FOR SLIDE-IN ELECTRIC RANGE, REF. SPECS

SHEET TITLE MILLWORK DETAILS

A406

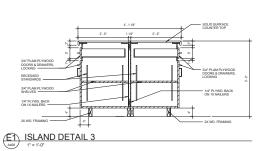
SINK APRON DETAIL

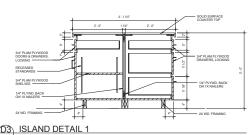
1" = 1'-0"

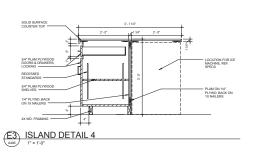


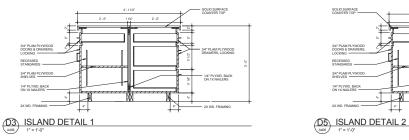
SINK CABINET DETAIL

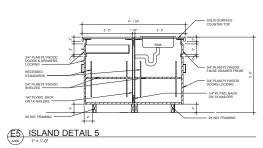
1" = 1"-0"

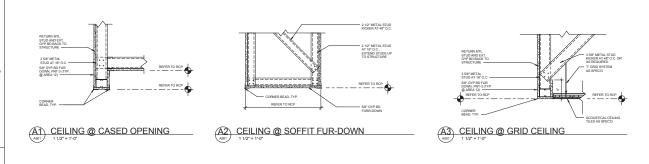


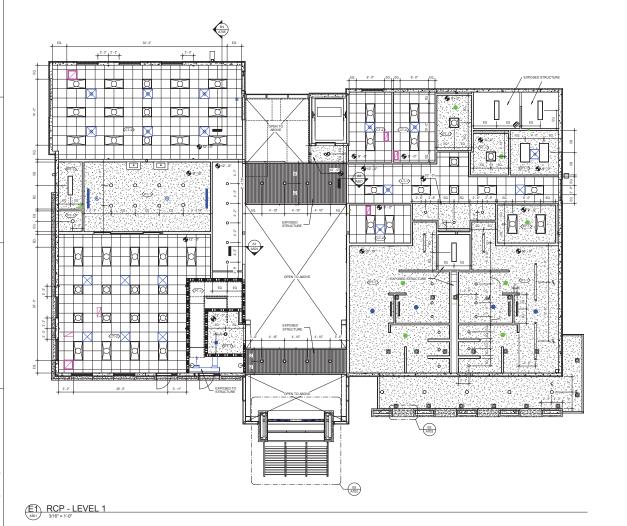


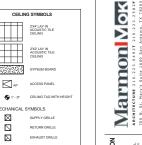












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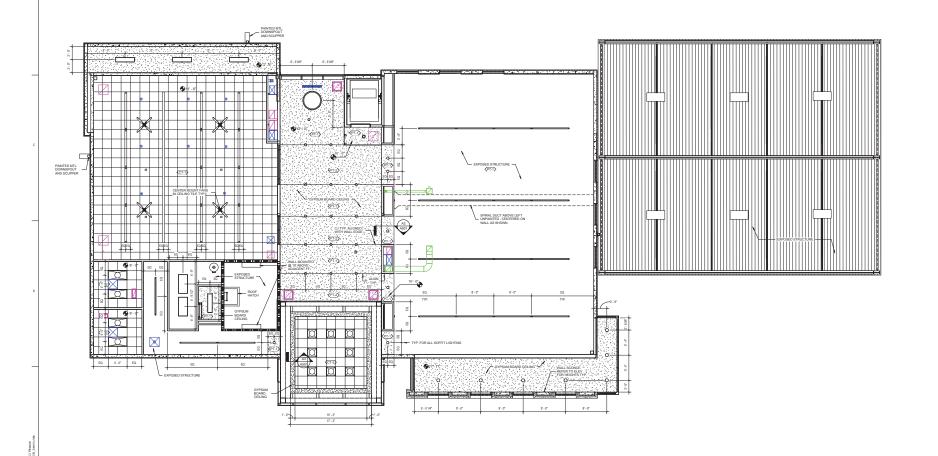
2'X2' FLUORESCENT FIXTURE 1'X4' FLUORESCENT FIXTURE

FLUORESCENT STRIP FIXTURE WALL WASH EXIT SIGN, SINGLE-SIDE 90% CONSTRUCTION DOCUMENTS

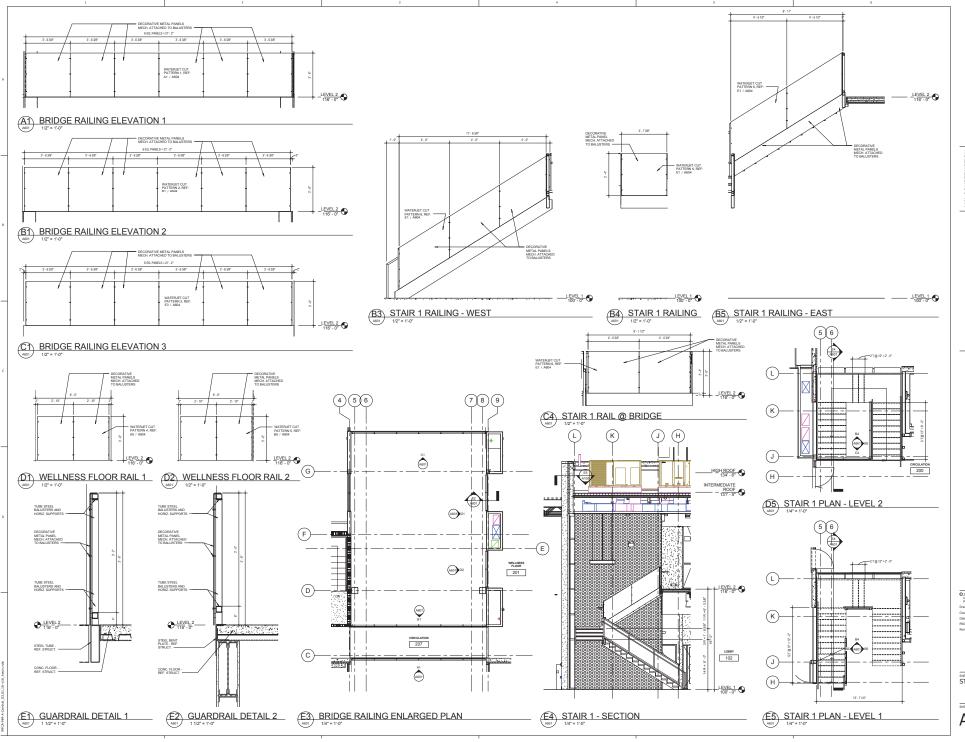
E. NAJIM FAMILY YMCA HARVEY

SHEET TITLE REFLECTED CEILING PLAN -FIRST FLOOR

A502



RCP - LEVEL 2 3/16" = 1'-0"



Marmon Vox

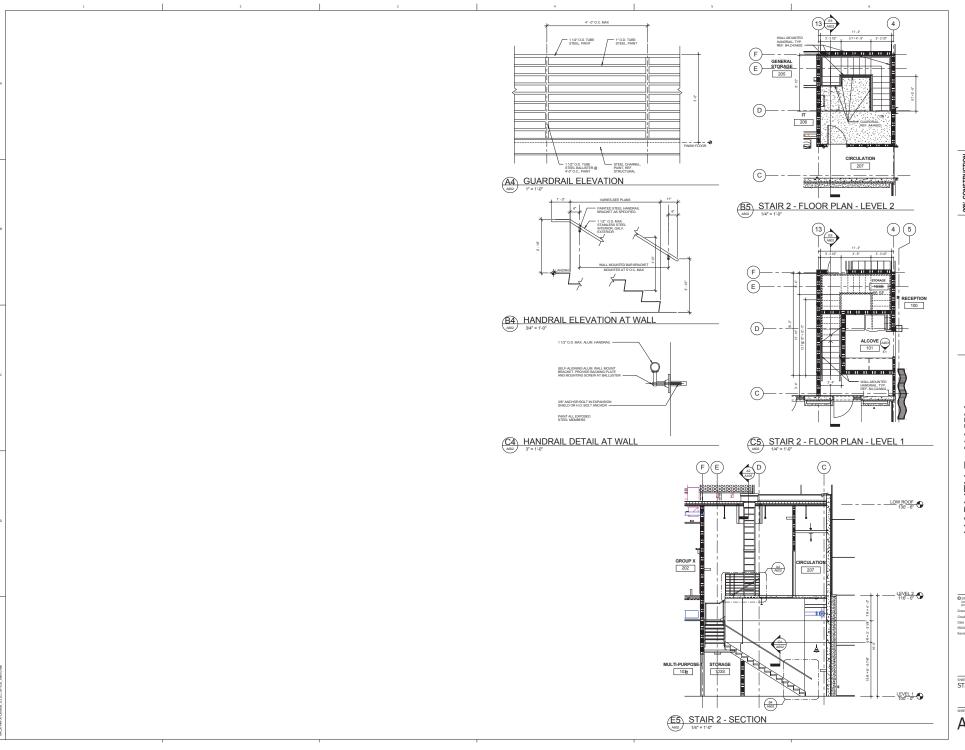
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PERNITTING OR CONSTRUCTION

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SHEET TITLE STAIR DETAILS

HEET NO.



Marmon Vox

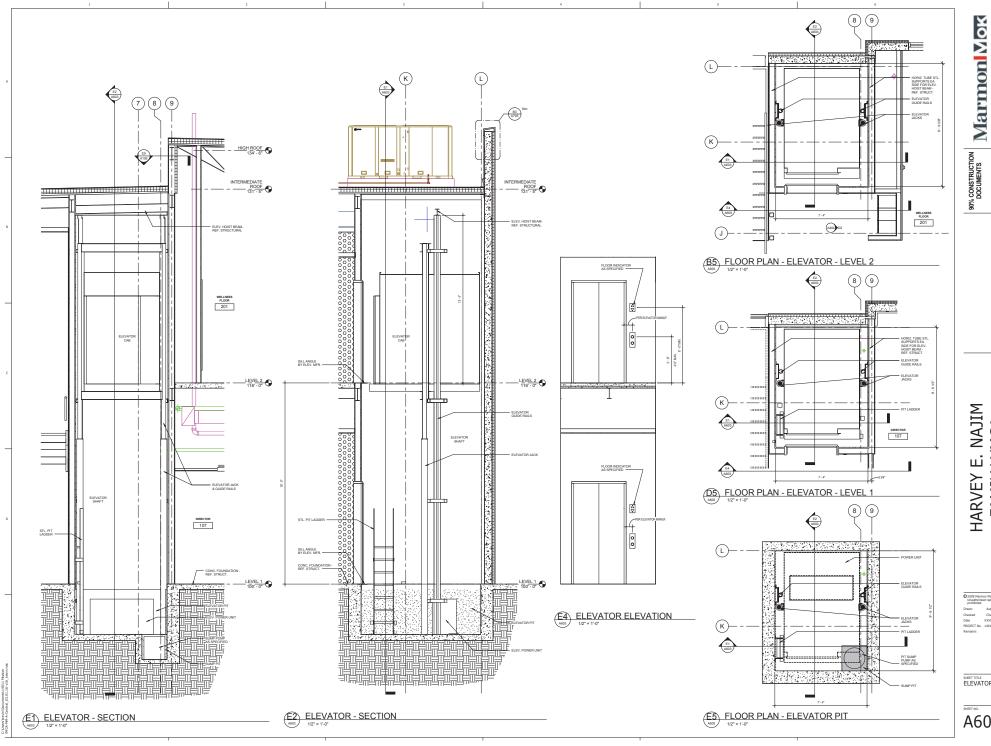
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DOCUMENTS

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REMITTING OR CONSTRUCTOR

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STAIR DETAILS



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SHEET TITLE
ELEVATOR DETAILS



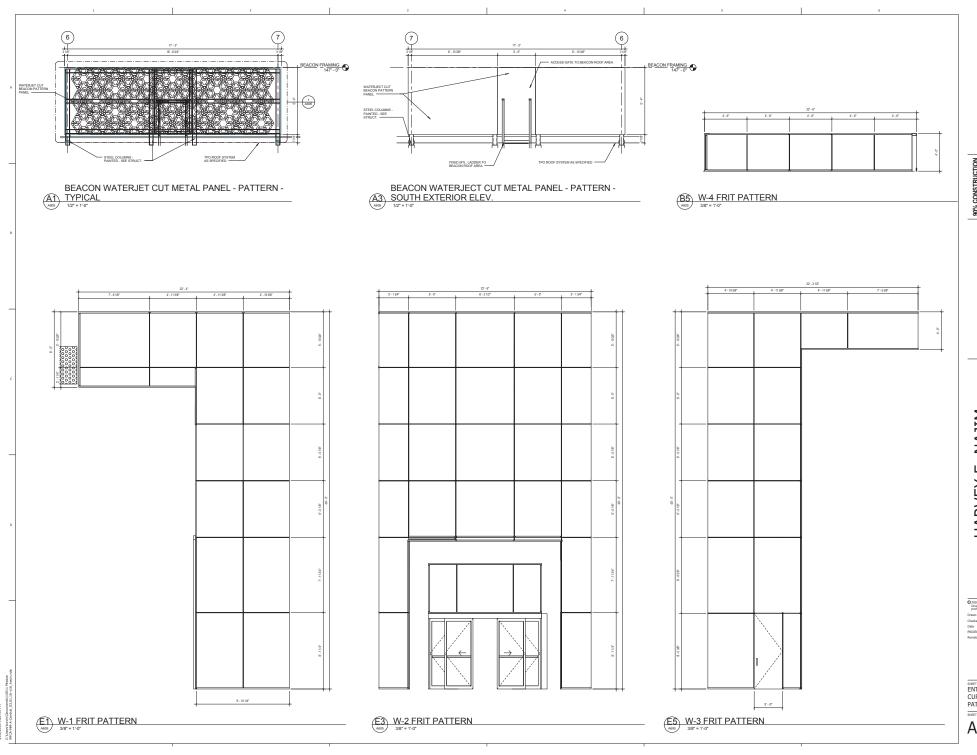
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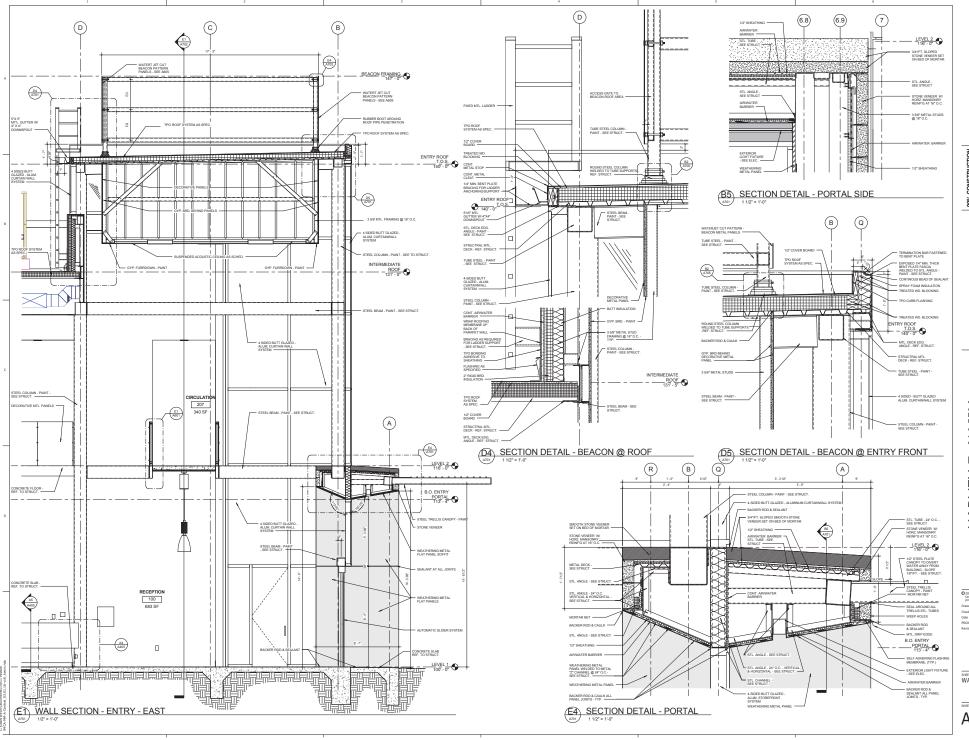
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RENITTING OR CONSTRUCTION

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PATTERN

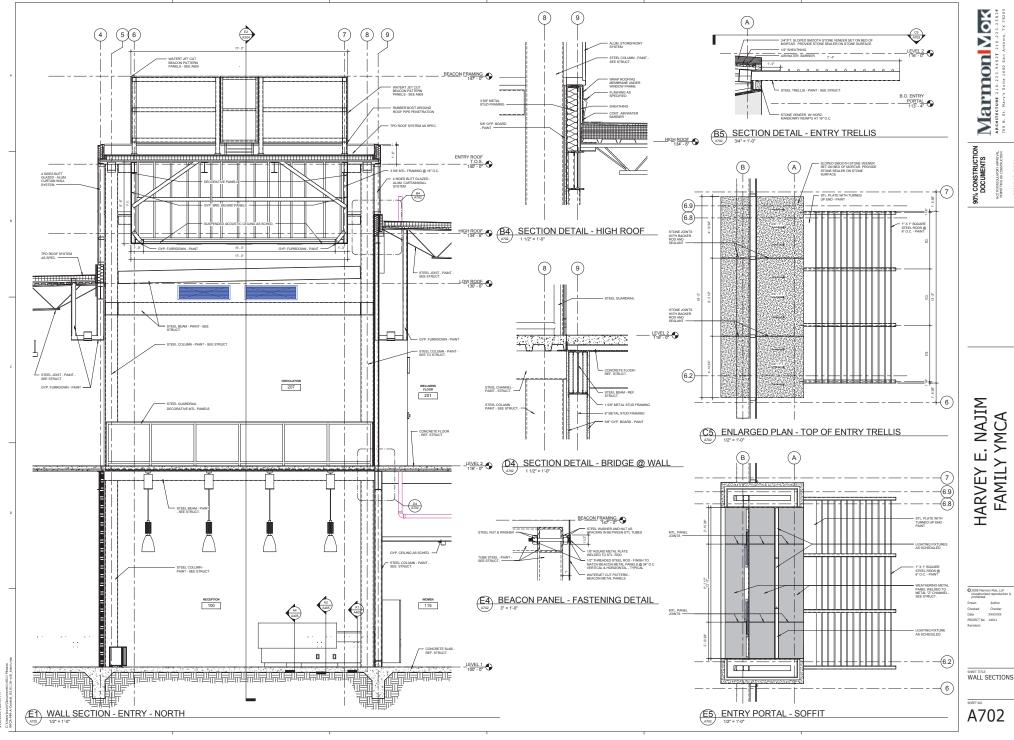


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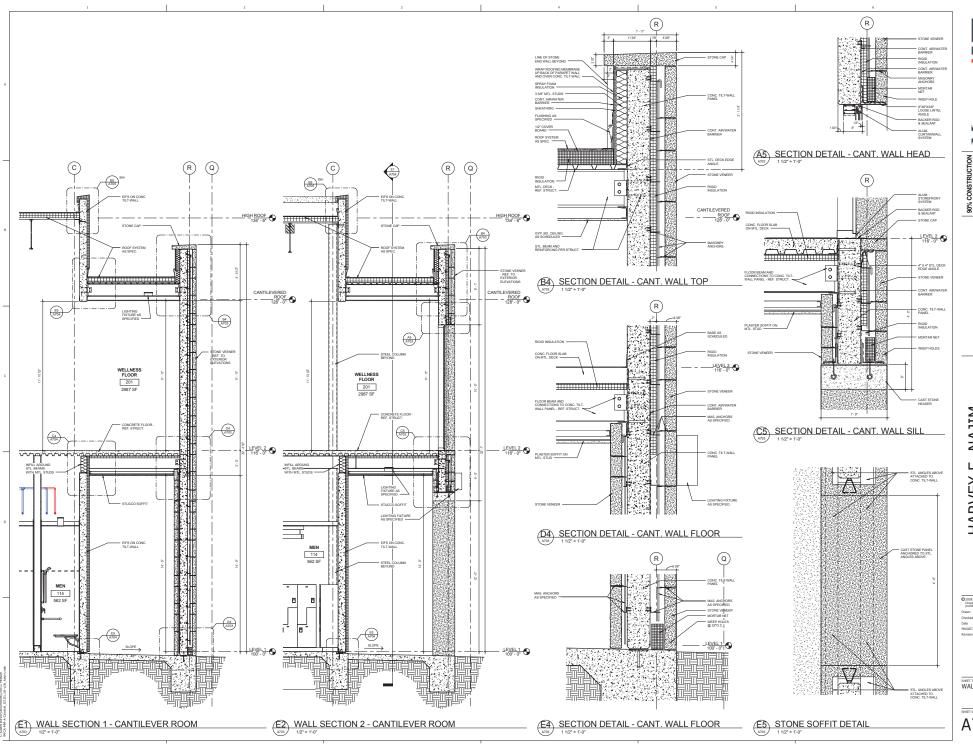
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WALL SECTIONS



FAMILY YMCA
Mission Plaza Drive

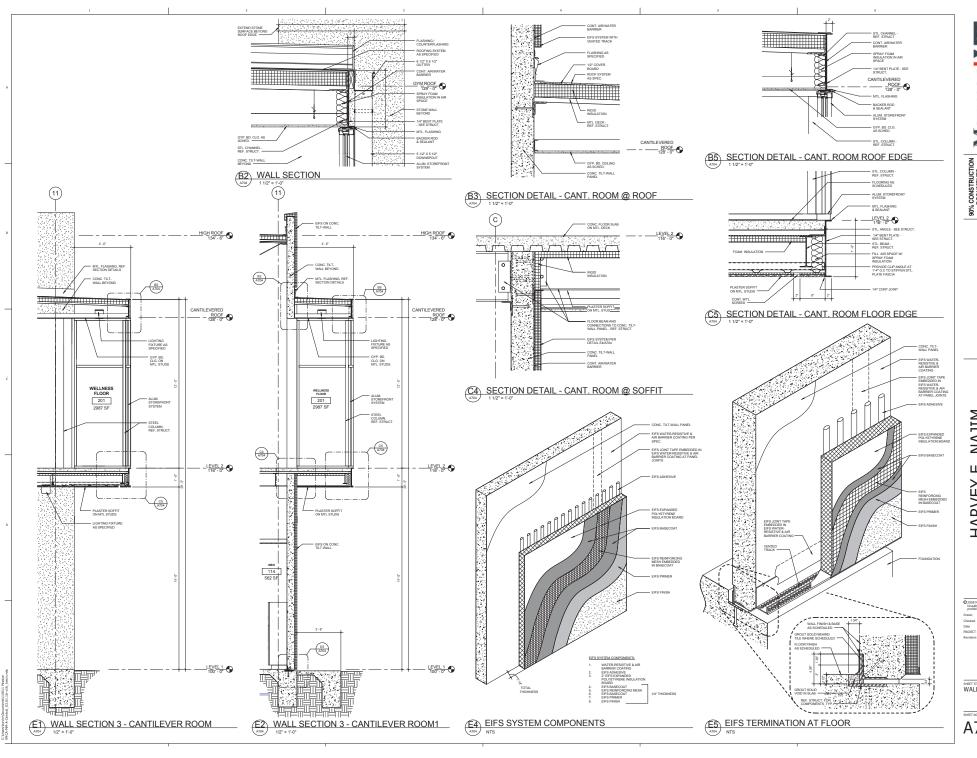


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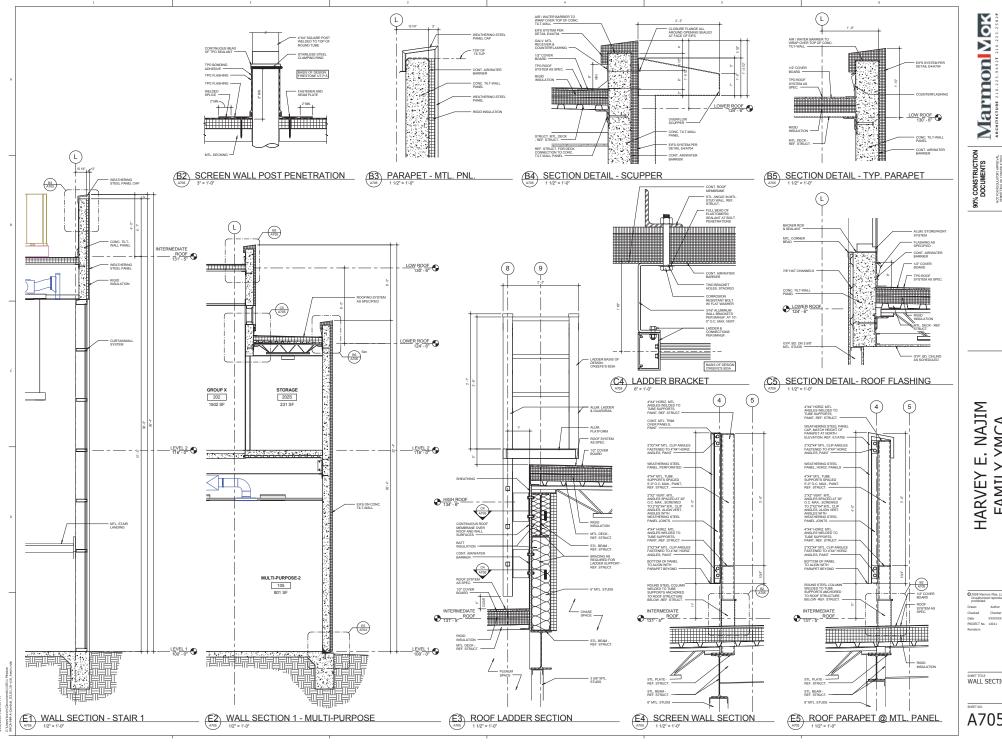
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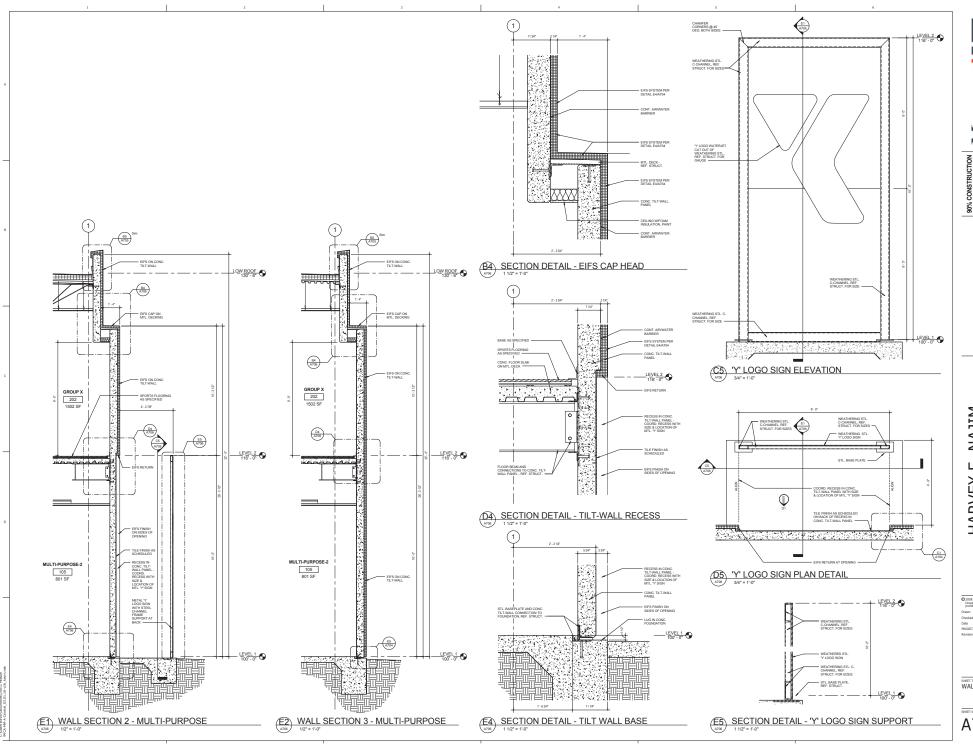
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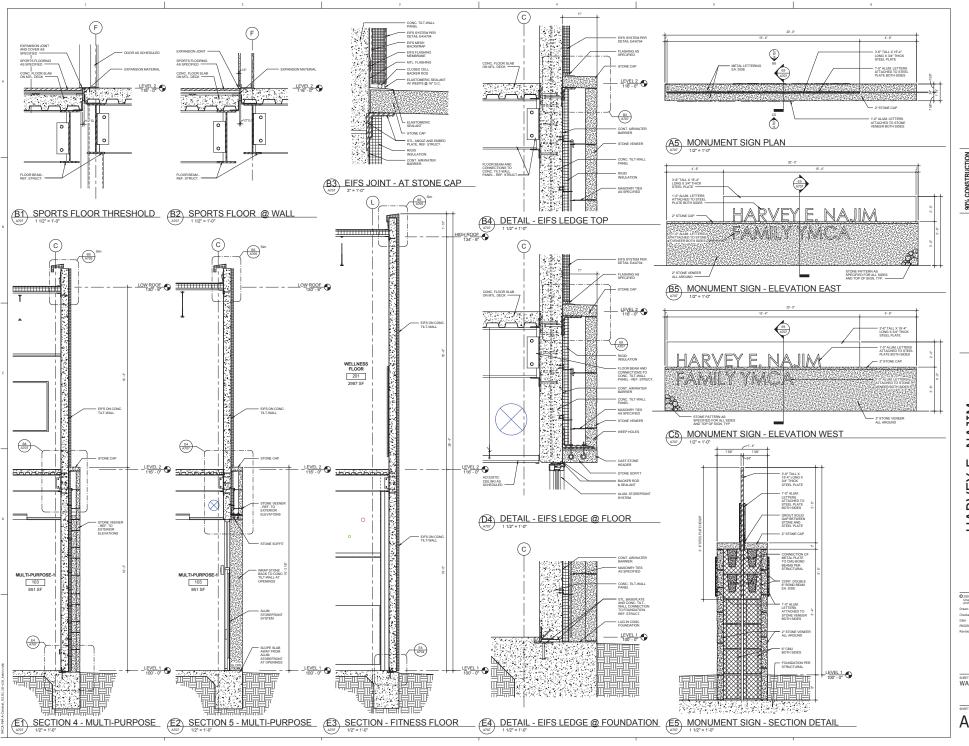
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SHEET TITLE LEVEL 1 - FF&E



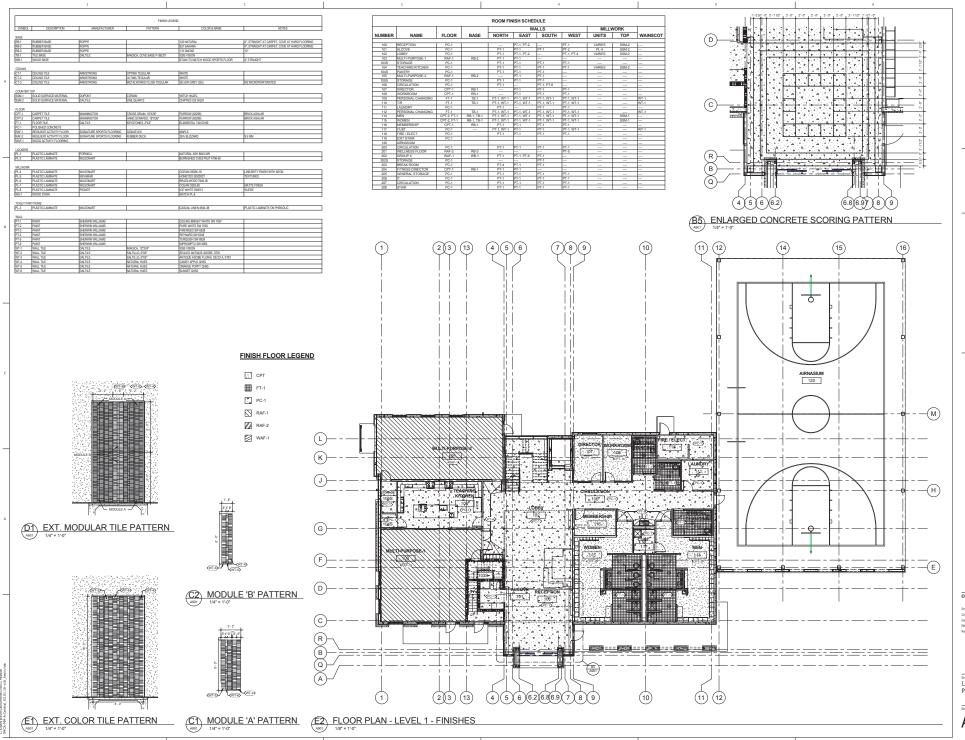
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SHEET TITLE LEVEL 2 - FF&E



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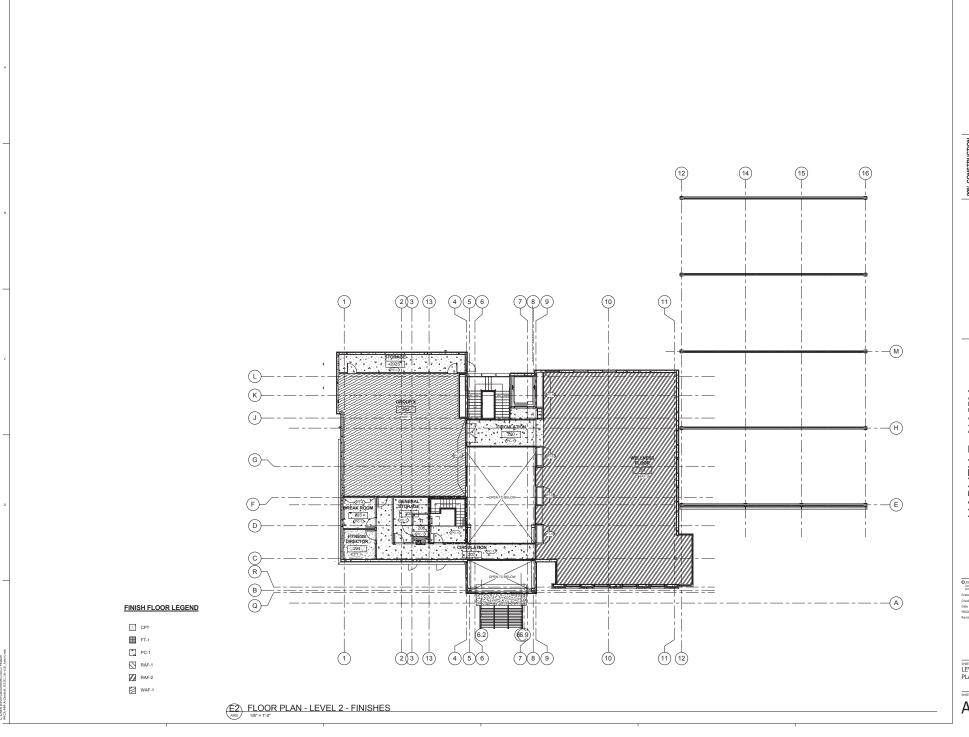
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SHEET TITLE LEVEL 1 - FINISH PLAN



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SHEET TITLE LEVEL 2 - FINISH PLAN

INA. THE CONTRACTOR AND FABRICATOR SHALL VERBY ALL QUANTITIES, DIBENSIONS AND CONDITION THOROUGH VINTH THE CONTRACT DOLUMENTS AND THORNOTHY THE ARCHITECTRAGINEER OF ANY DISCREPANCIES OR INCONSISTENCIES BEFORE SUBMITTING SHOP DRAWINGS AND PROCEEDING WITH THE WORK, DO NOT SOALE DRAWINGS FOR DIMENSIONS.

COMPLETED SHOP DRAWINGS SHALL BE PROVIDED, AS SPECIFIED FOR ALL FARRICATED ITEMS AND SHALL BE REVIEWED BY THE GREENAL COMPLETOR PRICE TO PARRICATION. STRUCTURAL AND SHALL BE REVIEWED BY THE GREENAL COMPLETOR FOR TO PARRICATION. STRUCTURAL SHAPE AND THE PROPERTY OF THE PROPERTY OF THE CONTROL OF THE CONTROL OF THE CONTROL SHAPE AND THE PROPERTY OF CHECKING FOR CONTROL OF THE CONT

A. CONCRETE MX DESIGN FOR EACH TYPE OF CONCRETE TO BE USED.

CONCRETE REINFORCING STEEL SHOP DRAWINGS INCLUDING PLACEMENT.

STRUCTURAL STEEL SHOP DRAWINGS.

D. METAL DECK DRAWINGS.

. OF EN WED 6 (EEL JUISTS).
PREFABRICATED WOOD TRUSSES. (GENERAL CONTRACTOR SHALL SUBMIT TO THE CITY PRIOR TO CERTIFICATE OF OCCUPANCY)

G. CARTON FORMS
H PRE-ENGINEERED STEEL FRAMED STRUCTURES (GENERAL CONTRACTOR SHALL SUBMIT TO THE CITY PRIOR TO CERTIFICATE OF OCCUPANCY)

I. SIGNED AND SEALED PRECAST CONDRETE

GN-7 GENERAL CONTRACTOR SHALL INSPECT JOB FOR COMPLETION BEFORE SCHEDULING ANY OBSERVATION BY THE ENGINEER.

GN-8 SEE ARCHL: AND MEP DRAWINGS FOR LOCATIONS AND SIZES OF SLAB OPENINGS, SLEEVES, INSERTS, ANCHORS AND BOLTS REQUIRED BY VARIOUS TRADES.

GN-9 ALL PLUMBING CONDUITS AT FOUNDATION SHOULD HAVE FLEXIBLE CONNECTIONS TO SUSTAIN A MAXIMUM DIFFERENTIAL MOVEMENT OF 1 INCH.

GN-10 THE STRUCTURE HAS BEEN DESIGNED TO RESIST DESIGN LOADS ONLY AS A COMPLETED STRUCTURE CONTRACTOR SHALL CONSIDER ALL CONSTRUCTION LOADS APPLIED TO THE PARTIALLY COMPLETED.

STRUCTURE LIMIT ALL PERMANENT CONSIDER ARE MADE, AND ENCLOSED PERMANENTLY AS PER CONSTRUCTION DOCUMENTS. TEMPORARY BRACING SHALL BE PROVIDED BY THE CONTRACTOR IN ALL DIRECTIONS. WHEN REQUIRED, BY THE CONSTRUCTION DOCUMENTS OR THE STRUCTURAL IN ENGINEER, CONTRACTOR SHALL PROVIDE CALCULATIONS SEALED BY A LICENSED STRUCTURAL ENGINEER, CONTRACTOR SHALL PROVIDE CALCULATIONS SEALED BY A LICENSED STRUCTURALLY MAINTAINING THE INTEGRITY OF THE COMPLETED PORTION OF THE STRUCTURE.

ON-11 THE CONTRACTOR IS SHALL BE RESPONSIBLE FOR CHECKING THE ADEQUACY OF THE STRUCTURE TO SUPPORT ALL CONSTRUCTION LOADS. THE STRUCTUREAL ENGINEER IS NOT RESPONSIBLE TO DESIGN OR CHECK THE STRUCTURE FOR CONSTRUCTION ACTIVITIES.

ALL DPOSED MISCILLINEQUES STEEL AND LINTEL MISCIES SHALL BE CLEARED AND GRAVIMATED.

APPLICABLE FIRED MISCIES SECTED CONSECTIONS AND ASSADED AREAS SHALL BE CLEANED AND

TOUCHED BY WITHOUGH AND AND ASSADED AND ASSADED AREAS SHALL BE CLEANED AND

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CONTAINED AND ASSADED ASSADED AND ASSADED ASSADED AND ASSADED ASSADED AND ASSADED ASSADED ASSADED ASSADED AND ASSADED AND ASSADED ASSADED AND ASSADED A

GN-13 CONTRACTOR TO INCLUDE (ENGR. EDIT 10% OF S.F.) POUNDS OF MISC. STEEL (STRUCTURAL STEEL, REINFORCING STEEL, LIGHT GAGE STEEL, AND MISC. STEEL) IN HIS BID PRICE FOR INSTALLATION PER DESIGN TEAMMEMBERS. THIS ALLOWANCE SHOULD INCLUDE LABOR DU

GN-14 THE ENGINEER SHALL NOT HAVE CONTROL OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS. METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, FOR SAFETY OMISSIONS OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN

QNIS PERCORD DIT DESERVATIONS BY FIELD REPRESENTATIVES OF A PHYLOXISLE TIME REGISTERS.

INC. ARE SOLELY FOR THE PLRPPOSE OF ESTERMANNAL IF THE WOONFOR THE CONTRACTOR IS

OSSERVATIONS ARE NOT INTENDED TO BE A CHECK OF THE QUALITY OR QUANTITY OF THE

WORK, BUT RATHER PRESIDED IN AMERICAN TO BE ADDITION OF THE QUALITY OR QUANTITY OF THE

WORK, BUT RATHER PRESIDED IN AMERICAN TO REPORT THE OWNER OF DEFECTS AND

DEFICIENCES IN THE WORK OF THE CONTRACTOR.

ASSUMPTIONS HAVE BEEN MADE BY THIS OFFICE REGARDING EXISTING CONDITIONS. ACTUAL ACCORDING MAY THE BEST MADE BY THES OFFICE REGARDING DISTRIBL CONDITIONS. ACTUAL CONDITIONS MAY UNKERNOR THOSE ASSEMBLE THEAD THESE PROFACTION OF SUBMIC CONDITIONS MAY SEE REQUIRED TO PROVIDE ALL COLATE SHOP DISTRIBLES TO CONTRIBUTE OF THE CONTRIBUTION THE CONTRIBUTION THE ENGINEER OF THE CONTRIBUTION OF THE ENGINEER OF THE CONTRIBUTION OF THE ENGINEER FOR POSSIBLE MODIFICATIONS REDED TO THE ENGINEER FOR POSSIBLE MODIFICATIONS NEEDED TO THE

GN-17 NEW ROOF ELEVATION SHALL MATCH THAT OF EXISTING. CONTRACTOR SHOULD VERIFY EXACT HEIGHT OF EXISTING ROOF BEFORE STEEL SHOP DRAWINGS ARE ACCEPTED.

GN-18 THE GENERAL CONTRACTOR SHALL RETAIN THE SERVICES OF A REGISTERED PROFESSIONAL ENGINEER, LICENSED IN TEXAS, TO VERIFY THAT THE EXISTING STRUCTURAL FRAMING IS CAPABLE A COLOR MEN MEDITARIAL EQUIPMENT PHON 10 INSTALLATION. THE GENERAL PACTOR SHALL ALSO PROVIDE NECESSARY FRAMING AS REQUIRED TO SUPPORT THE NEW NUCAL EQUIPMENT BETWEEN EXISTING STRUCTURAL FRAMING AND TO REINFORCE EXISTING TIPAL FRAMING IS PROVIDED BY THE EXPLICATION OF THE PROVIDED OF

GN-19 PROTECT ALL REMAINING EXISTING STRUCTURES, ANY DAMAGE TO AN EXISTING STRUCTURE SHALL BE REPAIRED TO EQUIVALENT OR BETTER CONDITION.

GN/20 PROVIDE CONTROL JOINTS AT 15/0" ON CENTER MAXIM IMFOR ALL BRITTLE FINISHE

GN-21 IF CONFLICT EXISTS BETWEEN DRAWINGS, NOTES, AND SPECIFICATIONS, THE STRICTEST REQUIREMENTS SHALL GOVERN.

DEFERRED DESIGN SUBMITTAL:

DD-1 SUBMITTALS LISTED IN DD-2 ARE TO BE DESIGNED, DETAILED, SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF TEXAS. SEE PLANS AND SPECIFICATIONS FOR

	DESIGN REQUIREMENT	IS OF THESE ELEMENTS.	
DD-2	ITEM	RESPONSIBLE FOR SHOP DRAWING REVIEW	RESPONSIBLE FOR INSPECTION
	o STEEL FLOOR & ROOF JOIST	STRUCTURAL ENGINEER	SPECIAL INSPECTOR
	o STEEL FLOOR & ROOF GIRDERS	STRUCTURAL ENGINEER	SPECIAL INSPECTOR
	o PRE-CAST CONC. ELEMENTS	STRUCTURAL ENGINEER	SPECIAL INSPECTOR
	o PRE-ENGINEERED BLDG.	STRUCTURAL ENGINEER	SPECIAL INSPECTOR
	o PRE-ENGINEERED CANOPIES	STRUCTURAL ENGINEER AND BUILDING INSPECTOR (COSA)	BUILDING INSPECTOR (COSA)
	o WOOD FLOOR & ROOF TRUSSES	STRUCTURAL ENGINEER AND BUILDING INSPECTOR (COSA)	BUILDING INSPECTOR (COSA)
	o LIGHT GAGE METAL STUDS	STRUCTURAL ENGINEER AND BUILDING INSPECTOR (COSA)	BUILDING INSPECTOR (COSA)
	o LIGHT GAGE METAL TRUSSES	STRUCTURAL ENGINEER AND BUILDING INSPECTOR (COSA)	BUILDING INSPECTOR (COSA)
	o POST-TENSION LAYOUT & LOSSES	STRUCTURAL ENGINEER AND BUILDING INSPECTOR (COSA)	BUILDING INSPECTOR (COSA)

DEAD LOADS INCLUDE THE WEIGHT OF CORE INCLITION HALL EMALS INCORPORATED INTO THE BUILDING, INCLIDING BUT NOT LIME TO WALLS, FLOORS, ROOFS, CHIMOS, STARKWAYS, BUILT-IN-PARTITIONS, FINISHES, CLUDIONG AND OTHER SIMILARY INCORPORATED ARCHITECTRIAL AND STRUCTURAL TEMBS, AND PRIOR SERVICE EQUIPMENT, ALL DEAD LOADS ARE CONSIDERED PERMANENT LOADS, MINIMUM ROOF DEAD LOAD IS 20 PSF OR ACTUAL LOAD WHICHEYER IS LARGER.

DL-2 DEAD LOADS FOR MECHANICAL UNITS ARE BASED ON THE WEIGHTS OF EQUIPMENT, INDICATED ON THE STRUCTURAL DRAWINGS INCLUDING THE WEIGHT OF CONCRETE WHERE INDICATED). ANY CHANGES IN TYPE, SIZE, LOCATION OR NUMBER OF PIECES OF EQUIPMENT SHOULD BE REPORTED TO THE ARCHITECT FOR VERIFICATION OF THE ADEC OF SUPPORTING MEMBERS PRIOR TO THE PLACEMENT OF SUCH EQUIPMENT.

DL3 UNIFORM DESIGN LIVE LOADING IS AS FOLLOWS: o ROOF
o MECHANICAL ROOM...
o OFFICES + PARTITIONS...
o GYMNASIUMS...
o LIBRARIES LIBRARIES
READING ROOMS.
STACK ROOMS.
STACK ROOMS.
HOTELS & MULTI-FAMILY DWELLINGS.
CLASSROOMS.40 PSF80 PSF100 PSF100 PSF

DL-4 ROOF LIVE LOADS MAY BE REDUCED.

PECIFICALLY
DETAILED FOR SEISMIC RESISTANCE
DESIGN BASE SHEAR, V = NA

SEISMIC RESPONSE COEFFICIENT, Cs = NIA
 RESPONSE MODIFICATION COEFFICIENT, R = NII
 ANALYSIS PROCEDURE - NIA

UNLESS SPECIFICALLY NOTED, THERE ARE NO PROVISIONS FOR FUTURE FLOORS, ROOFS OR OTHER LOADS.

OMPON	OMPONENTS AND CLADDING PRESSURES						
RC	ROOF PRESSURES (BLDG)						
		TRIBUTARY	AREA (PSF)				
ZON	Ε	10 SQ. FT.	100 SQ. FT.				
- 1		16,-35	16,-32				
2		16,-58	16,-38				
2		40.07	40.00				

WAL	PRESSURE	3 (BLUG)	
	TRIBUTARY AREA (PSF)		
ZONE	10 SQ. FT.	500 SQ. FT.	
4	32,-34	24,-27	
5	32,-42	24,-27	

NOTE: 1. REFER TO ASCE 7-10 FOR DEFINITION OF "a" DIMENSION (7-0").

ROOF PRESSURES (GYM)			WALL	PRESSURE	S (SIGNS)
	TRIBUTARY AREA (PSF)			TRIBUTARY AREA (PSF)	
ZONE	< 36 SQ. FT.	> 144 SQ. FT.	ZONE	10 SQ. FT.	500 SQ. FT.
1	16,-34	16,-34	4		
2	23,-51	16,-34	5		
3	30,-101	16,-34			

NOTE: 1. REFER TO ASCE 7-10 FOR DEFINITION OF "a" DIMENSION (6'-0").

SCHEDULE OF SITE OBSERVATIONS BY ENGINEER:

SO-1 ALL STRUCTURAL ELEMENTS OF THE BUILDING SHALL BE OBSERVED BY THE STRUCTURAL ENGINEER'S REPRESENTATIVE DURING THE CONSTRUCTION PHASE, SO THAT A FINAL LETTER

PRIOR TO THE BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL ARRANGE A SO-2 MEETING WITH THE STRUCTURAL ENGINEER TO SET UP A SCHEDULE FOR THE FOLLOWING OBSERVATIONS, NOT TO EXCEED THE SPECIFIED MUMBER OF VISITS:

A. CONCRETE: FOR EACH CONCRETE POUR UNLESS NOTED OTHERWISE BY THE ENGINEER SEE NOTE 5 OF CONCRETE AND CONCRETE REINFORGEMENT - ONE VISIT. B. STRUCTURAL STEEL: BEFORE CONNECTIONS AND STRUCTURAL MEMBERS ARE HIDDEN BY INSTALLATION OF ARCHITECTURAL FINISHES - ONE VISIT.

C. STRUCTURAL FLOOR/ROOF DECK: BEFORE WELDING AND/OR SCREWS ARE HIDDEN BY INSTALLATION OF FLOORING AND/OR ROOFING MATERIAL - COMBINED WITH ITEM "B". D. MASONRY UNIT WALL: AFTER INSTALLING TWO COURSES OF UNITS AND VERTICAL DOWELS AND STEEL ARE CLEARLY VISUAL - ONE VISIT.

E. PRECAST EARTH RETAINER: AFTER ALL RETAINERS ARE INSTALLED PROPERLY AND ALL JOINTS (TOP & SIDES) ARE GROUTED BUT BEFORE BACKFILLING. F. TIMBER FRAMING: AFTER ALL WOOD FRAMING AND CONNECTIONS ARE MADE BUT BEFORE APPLITING SHEATHING. - ONE WISHT

CONCRETE AND CONCRETE REINFORCEMENT:

STRUCTURAL CONCRETE SHALL BE IN ACCORDANCE WITH THE CODE APPLICABLE EDITION OF 'BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318)', THE AMERICAN CONCRETE INSTITUTE.

CN.2 ALL CONCRETE REINFORCEMENT SHALL BE NEW DOMESTIC DEFORMED BILLET STEEL, CONFORMING TO ASTIN 4 615, GRADE 60, EXCEPT WELDABLE REBARS ASTIM A 706, GR. 60, WELDED WIRE FABRIC SHALL CONFORMTO ASTIM A 188, GRADE 7.

CN-3 DETAIL REINFORCING BARS AND PROVIDE BAR SUPPORTS AND SPACERS IN ACCORDANCE WITH ACI 315.

ALL REINFORCING SHALL BE PROPERLY CHAIRED AND TIED PER ACI 315 (SP66) AND CRSI (PLACING REINFORCING BARS) PRIOR TO PLACING CONCRETE. PLACEMENT OF ALL REINFORCING STEEL SHALL BE OBSERVED BY THE ENGINEER PRIOR TO CONCRETE PLACEMENT UNLESS APPROVED OTHERWISE.

ALL CONCRETE SHALL BE NORMAL WEIGHT STONE AGGREGATE CONCRETE UNLESS NOTED OTHERWISE. AGGREGATE SHALL MEET ASTM C33 REQUIREMENTS, AND SHALL BE 3/4" TO 1 1/2 NOMMAL AGGREGATE SIZE. CONCRETE ON METAL DECK IS TO UTILES 3/4" MAXIMUM AGGREGATE PROVIDE ADMITYLERS AS REQUIRED TO IMPROVE WORKABILITY. THE GENERAL AUDITEDIA IL PREVIUDE ARRIVATORI SELLAM REQUIREMENTS UNLESS NOTED OTHERWISE IN STRUCTURAL DOCUMENTS. PLASTIC CONCRETE TEMPERATURE SHALL NOT EXCED 90 DEGREES PROIS TO PLACEMENT. ALL CONCRETE SHALL BE CURE OF A MINIMAM OF 7 DAYS USING MOIST CURING PROCEDURES, OR CURING COMPOUNDS WHICH WILL NOT INTERFER THE BONDING OF FINISH TILE FLOORS. NO FLY ASH SHALL BE USED AT ARCHITECTURALLY

EXPOSED CONCRETE WITHOUT PRIOR APPROVAL FROM ARCHITECT. THE FLYASH CON SHALL NOT EXCEED THE PERCENTAGE OF CEMENTITIOUS MATERIALS SHOWN BELOW ADDITION TO ABOVE THE CONCRETE SHALL MEET THE FOLLOWING REQUIREMENTS:

PROVIDE A SET OF CYLINDERS IN ACCORDANCE WITH ASTM C 31 TO BE TAKEN BY AN INDEPENDENT TESTING LAB AT THE FREQUENCY SPECIFIED IN ACI 318 AND THE GOVERNING BUILDING CODE WITH LOCAL AMENDMENTS. COMPRESSION TEST RESULTS SHALL BE REPORTED TO THE ENSINGER WITHIN 24 HOURS.

NO SUBSEQUENT CONSTRUCTION WILL BE ALLOWED UNTIL CONCRETE HAS REACHED 75% OF DESIGN STRENGTH.

CN-9 PORTLAND CEMENT SHALL CONFORM TO ASTM - C150, TYPE I/II.

CN-10 NO WELDING OF REINFORCING BARS OR TORCHING TO BEND REINFORCING BARS SHALL BE ALLOWED WITHOUT THE SPECIFIC APPROVAL OF THE STRUCTURAL ENGINEER. CN.11 CONCRETE COVER SHOULD BE AS FOLLOWS:

A. FOOTINGS AND OTHER PRINCIPAL STRUCTURAL MEMBERS IN WHICH CONCRETE IS CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH - 3 INCHES. B. WHERE CONCRETE SURFACES, AFTER REMOVAL OF FORMS, ARE EXPOSED TO WEATHER OR FARTH

C. WHERE SURFACES ARE NOT DIRECTLY EXPOSED TO WEATHER OR EARTH:

CH-12. MECHANICAL AND ELECTRICAL CONDUIT CAN NOT BE PLACED IN BEAMS PARALLEL TO BEAM RENFORCIMIC, PROVIDE A MINIMUM OF 12 CLEAR BETVEEN CONDUIT AND PARALLEL RENFORCIMIC, DO NOT FUNDICE CONDUITS. CONDUITS SHALL BE PLACED IN THE MIDDLE OF THEO OF THE SLAB THICKNESS OR BEAM DETTH.

CN-13 SET AND BUILD INTO FORM WORK ANCHORAGE DEVICES AND OTHER EMBEDDED ITEMS REQUIRED FOR OTHER WORK THAT IS ATTACHED TO OR SUPPORTED BY CAST-IN-PLACE

IF NOT SHOWN ON PLAN, THE CONTRACTOR SHALL SUBMIT A PROPOSED CONSTRUCTION LAYOUT FOR REVIEW. MAXIMUM SQUARE FOOTAGE SHALL NOT EXCEED 15,000 UNLESS

AT SUSPENDED SLAB AND BEAMS, FORM SIDES AND SOFFITS OF ALL SLABS AND BEAMS AND REMOVE FORMS. USE PRECAST CONCRETE "EARTH RETAINERS" AS SHOWN ON DETAILS TO PROVIDE VOID UNDER GRADE BEAMS AS SHOWN ON DETAILS TO CONVENIENT LENGTH PLANT OR JOB CAST IN CAREFULLY CONSTRUCTED CASTING BEDS ON MONDITHICALLY POURED. INSTALL RETAINERS AGAINST BEAM FACES ON A 1 TO 12 SLOPE, GROUT ALL JOINTST OS BALL OF THE STALL RETAINERS AGAINST BEAM FACES ON A 1 TO 12 SLOPE, GROUT ALL JOINTST OS BALL OF THE STALL RETAINERS AGAINST BEAM FACES ON A 1 TO 12 SLOPE.

CN-16 CONCRETE FOR TOPPING SLAB IN WALK-IN COOLER SHALL HAVE MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI, AND SHALL HAVE ASTM C33, 38* PEA GRAVEL COURSE AGGREGATE.

OPEN WEB STEEL JOISTS:

1 STEEL JOISTS AND BRIDGING SHALL CONFORM TO CODE APPLICABLE STEEL JOIST INSTITUTE SPECIFICATIONS. JOISTS AND JOIST BRIDGING SHALL BE DESIGNED TO RESIST A NET UPLIFT PRESSURE. FOR NET UPLIFT CALCULAT DEAD LOAD CONSISTS OF SELF WISIDET FOR JOIST AND DECK.

SJ2 JOIST ERECTION PRECAUTION (OSHA REQUIREMENT) AT ALL COLUMNS NOT FRAMED BY BEAMS IN AT LEAST TWO DIRECTIONS. THE JOIST CLOSEST TO THE COLUMN ON BOTH SIDES OF THE BEAM SHALL HAVE ITS SEAT BOLTED TO THE BEAM SHALL HAVE ITS SEAT BOLTED TO THE BEAM HATERALLY LIMIT THE JOIST SEAT IS

SJ-3 TYPICAL STEEL JOIST SEAT ANCHORAGE TO BE DESIGNED BY JOIST MANUFACTURER FOR ALL APPLICABLE FORCES.

SJ-4 ALL JOISTS DESIGNATED AS "SP" SHALL BE DESIGNED BY MANUFACTURER TO CARRY EXTRA EQUIPMENT WEIGHT AS SHOWN ON ROOF PLAN.

SJ5 ALL HANGERS SUPPORTING MECHANICAL EQUIPMENT, SPRINGLER LINES, ETC., FROM THE CHORD OF STEEL JOISTS AND JOST SIGNERS, SHALL BE LOCATED AT THE PARE, TOWNS OF THE JOIST SON THE JOST SON DAIL BE REINFORCED OWNERS AND BROKES OF FLURBING LINES SURNING PERPENDICULAR TO THE STEEL JOISTS SHALL SEE SERVICE AT EVERY STEEL AND FOR JOST AND EVERY SECOND STEEL FLOOR JOST SIGNEY SECOND STEEL JOST SHOOL SEEN SECOND STEEL JOST SHOOL SEEN SECOND STEEL JOST SHOOL SEEN SECOND STEEL SECOND STEEL SHOOL SECOND STEEL SECOND STEEL SHOOL SECOND STEEL SECOND STEEL SHOOL SHOUL SHOOL SHOUL SHOOL SHOUL SHOOL SHO

SJ-6 ALL BRIDGING AND BRACING OF JOISTS AND JOIST GIRDERS SHALL BE IN PLACE PRIOR TO PLACING ANY DECKING.

SJ-7 DURING THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL PROVIDE MEANS FOR ADEQUATE DISTRIBUTION OF CONDENTRATED LOADS SO THAT THE LOAD CARRYING CAPACITY OF ANY JOIST AND JOIST GIRDER IS NOT EXCEEDED.

SJ.8 ALL DAMAGED JOISTS SHALL BE REPLACED. MODIFICATION OR REPAIR OF JOISTS IS NOT PERMITTED UNLESS APPROVED IN WRITING BY THE JOIST MANUFACTURER'S ENGINEER.

SJ-9 ALL JOISTS SHALL HAVE APPROX. CAMBER IN ACCORDANCE WITH TABLE 4.6-1 FOR K-SERIES. OR TABLE 103.6-1 FOR LH AND DLH-SERIES. SJI ADAPTED STANDARD

CARTON FORMS SUPPORTED FOUNDATION:

CF-1 STRIP EXISTING VEGETATION TO BOTTOM OF CARTON FORM ELEVATION. RAISE SUBGRADE WITH CLEAN SOIL TO UNDERSIDE OF CARTON FORMS IF NECESSARY. COMPACT TO 90% STANDARD PROCTOR DENSITY USING MINIMUM S PASSES OF A 20 TON PREJMATIC ROLLER IDLING TRUCK PER 12' LIFT.

CF-2 SLOPE BEAM TRENCH TO COMPLETELY DRAIN OUT RAIN WATER. LEVEL BEAM TRENCH WITH LOOSE GRAVEL PRIOR TO PLACING CARTON FORM.

CF-3 FORMS SHALL BE CONSTRUCTED OF CORRUGATED PAPER MATERIAL WITH A MOISTURE RESISTANT EXTERIOR AS MANUFACTURED BY SUREVOID PRODUCTS INC. OF ENGLEWOOD, COLORADO, OR APPROVED EQUAL

A. FORMS SHALL BE CONSTRUCTED TO THE PROPER DIMENSIONS TO FIT VARIOUS CONDITIONS AS INDICATED ON THE PLANS.

B. FORMS ARE TO BE STAPLED, OR OTHERWISE HELD TOGETHER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

C. FORMS SHALL BE DRY AT THE TIME CONCRETE IS PLACED.

D. FORMS SHOULD BE CAPABLE OF SUSTAINING A WORKING LOAD OF 1,000 PSF. CONCRETE POURS SHALL NOT EXCEED FIVE FEET IN DEPTH. E. REPLACE ALL DAMAGED FORMS.

F. CARTON FORMS SHALL DETERIORATE WITHIN SIXTY DAYS OF CONCRETE PLACEMENT.

PROVIDE 15 MIL. STEEDO WRAP OR REVIEWED EQUAL ON TOP OF CARTON FORMS, CONTINUE AT SIDES AND BOTTOM OF COME. BEAMS (TYP) LAP-EDGES OF FILME WITHTOP PLACED INDIRECTION OF COMERTE FLOW MATCHER LUGINIS, CUT FILM ARQUAD PIPES AND ROUGH-INS AND SEAL CUTS WITH PRESSURE SENTINE TAPE ALL PRESSURE SENTINE TAPE.

PROVIDE PLASTIC RETAINER MANUFACTURED BY SUREVOID CO. OR EQUIVALEN AT ALL GRADE BEAMS EXTENDING MIN. 3° BELOW AND ABOVE CARTON FORMS, REF. DETAIL 0F3329°

STRUCTURAL STEEL:

SS-1 STRUCTURAL STEEL SHALL CONFORM TO THE 2010 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AISC 360-10.

SS-2 WELDING: CODE APPLICABLE EDITION OF THE STRUCTURAL WELDING CODE - STEEL, AMERICAN WELDING SOCIETY (AWS D.1.1 AND AWS D.1.3).

SS-3 VERIFY THE EXACT SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS FOR MECHANICAL AND ELECTRICAL REQUIREMENTS AND COORDINATE WITH MECHANICAL AND PROPERTY OF THE PROPER

SS-4 STEEL SHALL BE MEET THE FOLLOWING REQUIREMENTS:

STEEL SHALL BE CLEANED PER SSPC-SP2. STEEL SHALL BE PAI OF RED OXIDE PRIMER, MINIMUM OF 1.5 M IS JORY FILMS THE WORLD BY JUNE OF THE ONE SHOP COAT STRUCTURAL STEEL AND ANCHOR RODS THAT ARE TO BE EMBEDDED IN CONCRETE OR TO RECEIVE FIREPROPORTING.

B36 WILDING SHALL BE PEPCOMED BY WELLESS HILDING VALID CERTIFICATES, IN WILDING SHALL BE PEPCOMED BY WELLESS HILDING VALID CERTIFICATES, IN MANUAL CURRENT EXPERIENCE HILDING VALID AS SCHOOL FOR EXWINGE, ALL MANUAL CURRENT EXPERTED HILDING VALID AS SCHOOL FOR EXPENDING AND WELLES HILDING VALID SHALL BY SHALL BE RESIDENT HIMPORTED HIS ACCOUNT. WITH RESIDENCE OF WELLOW SHALL BE SHALL BY THE ARROWS HILDING VALID SH

MINIMUM SIZE OF FILLET WELDS					
MINIMUM SIZE OF FILLET WELD, IN.					
3/16					
1/4					
5/16					
OVER 3/4 3/8					
WELDS. SINGLE ED.					

BOLITO BEAM CONSCITORS SHALL BE SIRVE FRAMED SHEAR CONNECTIONS USING AS T.M.
JOINTS USING HOR STREAMTH GAT.* JOINT THYER OR SIRVE FRAMED SHEAR
JOINTS USING HOR STREAMTH GAT.* JOINT THYER OR SIRVE FRAMED SHEAR
JOINTS USING HOR STREAMTH GAT.* JOINT THY OR SIRVE FRAMED SHEAR
JOINTS USING HOR STREAMTH GAT.* JOINT WAS DIFFLUE FRAMELED AND WISHLESS
STRUCTURAL JOINTS USING HOR STREAMTH GAT.15* JOINT AND ADDRESS OF STREAMTH GAT. THE STREAM JOINT LINESS
STRUCTURAL JOINTS USING HOR STREAMTH GAT.15* JOINT ADDRESS OF STREAMTH GAT.* THE STREAM JOINT LINESS
STRUCTURAL JOINTS USING HOR STREAMTH GAT.* JOINT GAT.* THE STREAM JOINT GAT.*
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SEGURE TO SEPORT OR SHEAT THE TOTAL JANGONIA DID CANACITY SHOWN THE
CONSTITUTION OF THE STREAM JOINT GAT. SHALL SHE FRANTITE IN SET SET MAXIMAM INFORM LOGIO TABLES : PEN LYIAL INFORM LOGIO CARACTICOS MAÑI TE
MAXIMAM INFORM LOGIO TABLES : PENOVIN INPATA CO THE ASIS MANULA CO STEEL
CONSTRUCTION. DIRECT TERICONODICATOR DITECTS SHALL BE FERRATTED. THE STEEL
REGISTREDE DEMORSER LUCRISCIO THE STATE OF TEXAS FOR ALL CONNECTIONS SETAILS
BY OTHERWISE ON THE STRUCTURAL STEEL SHOP DRAWINGS.

IN FRAMED BEAM CONNECTIONS, WELDS MAY BE SUBSTITUTED FOR BOLTED CONNECTIONS II ACCORDANCE WITH TABLE 10-2 OF THE AISC MANUAL OF STEEL CONSTRUCTION. TO OBTAIN

THE CONTRACTOR SHALL REVIEW SHOP AND FIELD WELD REQUIREMENTS FOR COMPATIBILITY WITH THE CONSTRUCTION SEQUENCE. PROPOSED REVISIONS FROM SHOP TO FIELD WELDS OR FROM PIELD TO SHOP WELDS SHALL BE IDENTIFIED BY THE CONTRACTOR

PACK UNDER BEARING PLATES BEFORE FRAMING MEMBER IS INSTALLED. AT COLUMNS, INSTALL DRY PACK UNDER BASE PLATES AFTER COLUMN HAS BEEN PLUMBED BUT PRIOR TO FLOOR OR BOOF INSTALL JUTION.

SS-11 NO MECHANICAL UNITS (SUCH AS AC UNITS, HEATER UNITS, ETC.) ARE TO BE HUNG FROM STRUCTURE WITHOUT THE ENGINEER'S APPROVAL, UNLESS SHOWN ON THE STRUCTURAL DRAWNINGS.

SS-12 CONTRACTOR SHALL PROVIDE PROTECTION FOR ALL EXISTING CONSTRUCTION DURING ALL FIELD WELDING OPERATIONS. A FIRE EXTINGUISHER SHALL BE ON THE JOB SITE AND IN THE IMMEDIATE WORKING APEA OF ALL FIELD WE INNO.

CONTRACTOR SHALL PROVIDE STRUCTURAL STEEL AND MISCELLANEOUS STEEL REQUIRED BY THE ELEVATOR MANUFACTURER FOR A COMPLETE INSTALLATION OF ELEVATOR AND IN MISMANTEE.

SS-14 ROLLED MEMBER SIZES / THICKNESSES INDICATED ON THE STRUCTURAL DRAWINGS AR REQUIRED MINIMUMS TO MEET STRENGTH AND DEFLECTION REQUIREMENTS. MEMBER

SS-15 COORDINATE ALL EXPOSED BOLTED AND WELDED CONNECTIONS WITH ARCHITECTURAL DETAILS. ALL WELDS EXPOSED TO VIEW SHALL BE CLEANED AND GROUND SMOOTH.

METAL DECK:

ALL GALVANZED (G60 EXCEPT WHERE EXPOSED TO WEATHER, USE G00) METAL NUU-DECK SHALL BE FIRMSHED WITH A MINIMUM TWO SPAN CONDITION, UNLESS NOTED OR DETAILED OTHERWISE, ROOF GECK SIZE IS NOTED ON THE PLANS AND SHALL CONFORM TO THE FOLLOWING MINIMUM, SECTION PROPERTIES:

A. ALL ROOF DECK EXCEPT AS NOTED (SUPPORTS SPACED NOT MORE THAN 6"0 a.c.)
 1 1/2", TYPE 'B", 22 GAGE,

B. WHERE NOTED AS 1.0° DEEP DECK (SUPPORT SPACED NOT MORE THAN 4°-0°-0.c.) 1.0°, TYPE E, 28 GAGE

o I = 0.041 IN 4/FT. o Sp = 0.067 IN 3/FT. o Sn = 0.071 IN 3/FT. o Ev = 60.000 PSI

ROOF DECK COMPLYING WITH THE CODE APPLICABLE EDITION OF THE STEEL DECK INSTITUTE SHALL BE ATTACHED TO SUPPORTING MEMBERS TO RESIST A DIAPHRAGM SHEAR FORCE OF THE FOLLOWING:

A. (TYP. ROOF DECK ATTACHMENT U.N.O.) - TYP. 1.5B DECK SHALL BE AT LACHED TO ALL SUPPORTING MEMBERS WITH 518" DIA. PUDDLE WELDS IN A 3815 PATTERN. PROVIDE MINIMUM 4 - #10 TEK SCREW SIDE LAP FASTENERS PER SPAN.

B. (TYP. ROOF DECK ATTACHMENT AT BLDG. END, SEE HATCHED AREA AT ROOF PLAN). DECK SHALL BE ATTACHED TO ALL SUPPORTING MEMBERS WITH SET DIA. PLODE WELDS IN A SØF PATTERN. (EVERY FLUTE). PROVIDE MINIMUM 7 #10 TEK SCREWS SIDELAP FASTENERS PER SPAN.

ALL FIELD WELDING OF DECK SHALL BE INSTRICT ACCORDANCE WITH ANSIAWS D13 STRUCTURAL WELDING CODE - SHEET STEEL - EACH WELDER MUST DEMONSTRATE AN ABLITYTO PRODUCE SATISFACTORY WELDS USING A PROCEDURE SUCH AS SHOWN IN THE STEEL DECK INSTITUTE MANUAL OF CONSTRUCTION WITH STEEL DECK OR AS DESCRIBEDIN ANSIAWS D13.

PAINTED STEEL PLOOR DECK SHALL CONFORM TO LATEST EDITION OF ASTM A653, STRUCTURAL QUALITY (Fy=60KSI). OTHER PROPERTIES SHALL HAVE THE FOLLOWING

FLOOR DECK: DEPTH.....

A. DECKING SHALL BE CONTINUOUS OVER AT LEAST 3 SUPPORTS. EACH DECKING PANEL SHALL BE ATTACHED TO SUPPORTING WITH 58° DIA. ARC PUDDLE WELDS WITH WELDING WASHERS AND TO ADJACENT PANELS WITH #10 SELF-TAPPING SCREWS AT THE SPACING INDICATED BELOW.

MD-5 WIRE MESH SHALL BE A LAPPED MINIMUM OF 8". MESH SHALL BE CHAIRED AS REQUIRED TO MAINTAIN A 1" CLEAR COVER FROM TOP OF SLAB.

MD-6 DECK MANUFACTURER SHALL FURNISH SHEET METAL CLOSURES BETWEEN FLOOR UNITS AND BEAMS, GIRDERS OR COLUMNS AS REQUIRED. THESE ACCESSORIES SHALL BE OF THE TYPE REQUIRED BY THE STEEL DECK INSTITUTE. DECK MANUFACTURER SHALL FURNISH RIDGE, VALLEY PLATES, AND FLAT PLATES AT CHANGE OF DECK DIRECTION TO PROVIDE A FINISHED SURFACE FOR THE APPLICATION OF BRODE INSULI ATTON AND RODG COVERING.

PRIOR TO START OF FABRICATION, STEEL FABRICATOR SHALL PROVIDE COMPLETE ERECTION AND FABRICATION DRAWINGS SHOWING LAYOUT AND TYPES OF DECK

POST-INSTALLED CONCRETE/MASONRY ANCHORS:

PI-1 POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. IF ADHESIVE / MECHANICAL ANCHOR IS GENER! CONSTRUCTION DOCUMENTS. IF AUPESIVE / MECHANICAL ANCHOR IS GENERICALLY CALLED OUT ON THE CONSTRUCTION DOCUMENTS, ANY ANCHOR MENTIONED BELOVIS ACCEPTABLE. IF SPECIFIC ANCHOR IS CALLED FOR, SUBSTITUTION MUST BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD FOR EACH CASE. O

Jarmon

19,2016

MAY

CONSTRUCTI

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ANCHOR CAPACITY USED IN DESIGN SHALL BE BASED ON THE TECHNICAL DATA PUBLISHED BY THE ANCHOR MANAPACTURER OR SUCH OTHER NETHOO AS APPROVED BY THE STRUCTURAL MEMORE OF RECORDS, ANCHOR CAPACITY SEPTEMBLAT UP ON PAPACING STRUCTURAL MANAPORE OF RECORD ANCHOR CAPACITY SEPTEMBLAT UP ON PAPACING INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED OF THE PRAVINGS.

PI-3 CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID COMPLICTS WIT EXISTING REBAR. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANAFACTURERS WHITTENING THE MANAFACTURERS WHITTENING THE MANAFACTURER WHITENING THE MANAFACTURER WHITENING THE MANAFACTURER WHITENING THE MANAFACTURER WHITENING THE MANAFACTURER AND HE MANAFACTURER WHITENING THE MANAFACTURER WHITENING THE MANAFACTURER WHITENING THE MANAFACTURER WHITENING THE WASHING THAT WHITENING THE MANAFACTURER WHITENING THAT WH DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS, BY FERROSCAN, GPR, X-RAY OR OTHER MEANS ACCEPTABLE TO THE STRUCTURAL ENGINEER-OF-RECORD.

MEMB ACCEPTABLE TO THE STRUCTURAL ENGINEER OF RECORD

SERTITUTION REQUESTED FOR PROJECTS OFFER THAN THOSE SEPCREDE DELOY SHALL

SESSIFICTED BY THE CONTRACTOR TO THE STRUCTURAL SHALLESS OF RECORD A JOIN

RESIDENCE THE CALCULATION SHALL ENGINEER THAN THE SESSIFICATION

OFFER SHALLESS OFFER SH

PI-5 THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE '
PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS
SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED
CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS
TRAINED PROOR TO THE COMMENCIENT OF INSTALLIAN ANCHORS
TRAINED PROOR TO THE COMMENCIENT OF INSTALLIAN ANCHORS

THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS.

MECHANICAL ANCHORS FOR CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES ACI 93 FOR CRACKED CONCRETE RECOGNITION.

PIS PRE-APPROVED DECHARGAL ARCHES FER OF MORET EINTLIES

19 SIMPOSTEROM. THE THINK ON DATT THE MORE OF THE MORE ON HOUSE FOR THE STRONG BOTH T

PI-9 ADHESIVE ANCHORS FOR CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.4 AND ICC-ES ACI308 FOR CRACKED CONCRETE RECOGNITION.

PI-10 PRE-APPROVAD ADHESIVE ANCHORS FOR CONCRETE INCLIDE:
A) SIMPSON STRONG-THE SET UP AND AT UP
B) HILT HATE 850 SO ADHESIVE
C) HILT HATE 4200 SAFE SET SYSTEM WITH HILTI HAT 2° ROD.
A NOCLEANING IS REQUIRED FOR HIT Z MOCHORS FOR TEMPERATURES. CHAIT OF HAT WAY DEF SET SYSTEM WITH HIGH THAT PROD.

A DO CLEAN DIS REDUCES FOR THAT AMONDS FOR EMPERATURES

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PI-11 MECHANICAL ANCHORS FOR SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES ACO1 OR AC106.

PI-12 PRE-APPROVED MECHANICAL ANCHORS FOR SOLID-GROUTED CONCRETE MASONRY INCLUDE: DE:
A) SIMPSON STRONG-TIE "STRONG-BOLT 2", "WEDGE-ALL" AND TITEN HO"
B) HLIT "KWIK HLIS EZ" SCREW ANCHOR
C) HLIT "KWIK BOLT 3" EXPANSION ANCHOR
D) POWERS FASTENERS" "POWERS-STUD 4 SD1"
E) POWERS FASTENERS "WEDGE BOLT 4"

PI-13 ADHESIVE ANCHORS FOR SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES ACSS.

PI-14 PRE-APPROVED ADHESIVE ANCHORS FOR SOUD-GROUTED CONCRETE MASONRY INCLUDE: A) SIMPSON STRONG-TIE "SET" AND "SET-XP" B) HILTI "HT-HY 70" MASONRY ADHESIVE ANCHORING SYSTEM (LINGROUTED CMU CELLS ONLY)

- INSIDE DIAMETER - INCH

- STIRRUPS - SQUARE - STANDARD - STEEL

STAIR
 STRUCTURE/STRUCTURAL
 SYMMETRICAL

L S NOTED OTHERWISI

- SYMME HICAL
- TREAD
- TOP AND BOTTOM
- THICK/THICKNESS
- TOP OF CONCRETE
- TOP OF JOIST
- TOP OF STEEL
- TOP OF WALL
- TYPICAL
- LINI ESS NOTED OT

PI-15 ADHESIVE ANCHORS FOR HOLLOW CONCRETE MASONRY/LINREINFORCED CLAY BRICK MASONRY WITH SCREEN TUBES SHALL BE TESTED AND QUALIFIED IN ACCORDANCE WITH ICCES ACSS OR ACSO, AS APPROPRIATE. THE APPROPRIATE SCREEN TUBE SHALL BE USED AS RECOMMENDED BY THE ADHESIVE MANUFACTURER. PRE-APPROVED ADHESIVE ANCHORS WITH SCREEN TUBES

A) SIMPSON STRONG-TIE "SET"

B) HILT: "HT-HY 70" MASONRY ADHESIVE ANCHORING SYSTEM C) POWERS "1308 +" EPOXY

ABBREVIATIONS

EQ. EQUIP E.W. EXIST. EXT. F.D. F.S. FIN. FLD. FLD. FLD.

FOUNDAT FLOOR DE FAR SIDE FINISH FIELD FLOOR

- HORIZONTAL - HEADED CONCRETE - HIGH STREAM

- INVERTED - INTERIOR - JOIST - CENTERLIN - DEGREE - DIAMETER 9 DAMETER
J.B. MARBERFOUNT
J.B. MARBERFO JOINT KIP (THOUSAND POUNDS) ANGLE ANĞLE
 POLNID
 POLNID
 LONG DIMENSION HORIZONTAL
 LINEAR FOOT
 LONG LEG HORIZONTAL
 LONG
 LONG LEG VERTICAL
 MAXIMUM
 MECHANICAL
 METZANINE LBS. L.D.H. - MEZZANINE - MANUFACTURER MIDDLE
 MINIMUM
 MISCELLANEOUS MAS. NS NOM. N.T.S. O.C. O.D. O.H. OPNG. OPP. PIC PREFAB PSF PSI COL. - COLUMN CONC. - CONCRETE CONTR. - CONTRACTOR OUTSIDE DIAMETER
 OPPOSITE HAND
 OPENING CONTR. - CONTRACTOR
C.J. - CONSTRUCTION I
CONN. - CONSTRUCTION
CONST. - CONSTRUCTION
CONT. - CONSTRUCTION
DIA. - DIAMETER
DIAG. - DIAGOMAL
DIM. - DIMENSION
D.L. - DEAD LOAD
DBL - DOUBLE
DN. - DOWN - PREFABRICATED
- POUND PER SQUARE FOOT
- POUND PER SQUARE INCH
- PLATE
- RISER
- RADIUS
- POOL DRAIN - ROOF DRAIN
- REFERENCE
- REINFORCING/REINFORCED
- REQUIRED
- SPACES/SPACING
- SCHEDULE DWL DWG. - DOWEL - SECTION SECT SHT. SIM. SPEC SL. STIFF STIR. SQ. STD. - SIMILAR - SPECIFICATION - SLOPE - DRAWING
- EACH
- EACH FACE
- EXPANSION
- ELEVATION
- EQUIPMENT
- EACH WAY
- EXISTING

STRUCTURAL NOTES

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SPECIAL INSPECTION SHALL INCLUDE:

o PIER FOUNDATION (NOT REQUIRED)

o CONCRETE

o WELDING OF STRUCTURAL STEEL (NOT REQUIRED)

o STEEL ELEMENTS OF COMPOSITE CONSTRUCTION (NOT REQUIRED)

o BOLTING OF STRUCTURAL STEEL (NOT REQUIRED) o STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL (NOT REQUIRED)

o MASONRY I (NOT REQUIRED)

o MASONRY II (NOT REQUIRED)

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SP-4 TESTING AND INSPECTION DIRECTED BY ASTM 6329 GUIDELINES WHERE NOTED ** ON THE TESTING & INSPECTION REQUITABLES.

SP-5 THE SPECIAL INSPECTOR CANNOT BE AN EMPLOYEE OF THE CONTRACTOR.

69 WERE STRUCTURE MEMBERS AN ASSEMBLES AND SEPARACHION THE SPECIAL RESPECTABLE WAS ASSEMBLED AS ASSESSMENT OF A SECURITY OF A SE

TESTING AND INSPECTION REQUIREMENTS FOR SITE PREPARATION FOR SOIL SUPPORTED FOUNDATIONS (INCLUDING SPECIAL INSPECTIONS)				
Required Verification and Inspection SITE PREPARATION FOR SOIL SUPPORTED FOUNDATION	Frequency of Verification and Inspection	IBC Section and Reference Standard IBC 1705.6	Inspector Qualifications	
Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	Periodic			
Verify excavations are extended to proper depth and have reached proper material.	Periodic			
Perform classification and testing of compacted fill materials.	Periodic	Geotechnical Report; Site Preparation for Soil	+ Qualifications	
Verify use of proper materials, densities and lift thicknesses during placment and compaction of compacted fill.	Continuous	Supported Foundation Notes on construction documents.	based on ASTM D3740	
 Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly. 	Periodic			
Chemical Injection: Quality controlled testing and evaluation prior and subsequent to injection shall be performed by the Geotechnical Engineer to determine the affectiveness of the chemical injection process. The Geotechnical Engineer or his representative shall mention the injection process to verify and coverage, injection depth and to review and monitor the swall best results.	Periodic			

TESTING AND INSPECTION REQUIREMENTS FOR CAST-IN-PLACE DEEP FOUNDATION ELEMENTS (INCLUDING SPECIAL INSPECTIONS)					
Required Verification and Inspection PIER FOUNDATION CONSTRUCTION	Frequency of Verification and Inspection	IBC Section and Reference Standard	Inspector Qualifications		
Observe drilling operations and maintain complete and accurate records for each element.	Continuous	Geotechnical Report; Drilled Pier Notes on construction documents and Specification Section 02466	Graduate Engineer * Qualifications based on		
 Verify placement locations and plumbness, confirm element diameters, bell diameters (if applicable), langths, embe diment into bedrock (if applicable) and adequate end-bearing strata capacity. Record concrete or grout volumes. 	Continuous	Drilled Pier Foundation Notes and associated details on construction documents and specification Section 02468	ASTM E329 & ASTM C1077		
For concrete elements, perform additional inspections in accordance with section 1705.3	***	IBC 1705.3; Concrete and Concrete Reinforcement Notes on construction documents and specification Section 03300	* Qualifications based on ASTM E329 & ASTM C1077		

VERIFICATION AND SPECIAL INSPECTION OF WOOD CONSTRUCTION					
Required Verification, Inspection and Testing	Frequency of Verification and Inspection	IBC Section and Frequency of Inspection IBC 1705.5	Inspector Qualifications		
 Fabrication process of prefabricated wood structural elements and assemblies shall be in accordance with IBC 1704.2.5 and local amendments 	Periodic	IBC 1704.2.5, 1705.5.2; Prefabricated Wood Truss and Timber Framing Notes on construction documents and specification sections 06100, 06150, 06173, 06181	Technical Representative under direction of Licensed Engineer		
2. Inspect wood structural panel sheathing construction for the	e following:				
a. Grade and thickness shown on approved building plans.	Periodic	IBC 1705.5, Timber Framing Notes on construction	Technical Representative under		
Nominal size of framing members at adjoining panel edges, per approved building plans.	Periodic	documents and specification section 06150	direction of Licensed Engineer		
 Nail or staple diameter and length, per approved building plans. 	Periodic				
 Number of fastener lines and the spacing between fasteners in each line and at edge margins, per approved building plans. 	Periodic				
3. Trusses over 60'-0", inspector shall verify the following:					
Temporary installation restraint/bracing per approved truss submittal.	Periodic	IBC 1704.2.5; 1705.5; Prefabricated Wood Roof Truss Notes on construction	Licensed Engineer or his/her Respresentativ		
Permanent individual truss member restraint/bracing are installed per approved trus's submittal.	Periodic	documents and specification section 06173			
Site built assemblies	Periodic	IBC 1705.5; Timber Framing Notes on construction documents and specification section 06100	Licensed Engineer or his/her Respresentativ		
 High-load diaphragms: Verify sheathing grade and thickness, nominal size of framing members adjoining panel edges, nalistaple diameter and length, and factorier patient par requirements of the approved construction documents. 	Periodic	IBC 1704.2; 1705.5.1; Timber Framing Notes on construction documents and specification section 06150			
 Pre-fabricated wood truss bracing: Verify that all permanent and liateral bracing has been installed per requirements of the approved construction documents. 	Periodic	IBC 1705.5.2; Prefabricated Wood Roof Truss Notes and Details shown on the construction documents and specification section 06173			

	IND INSPECTION CONCRETE CONS	REQUIREMENTS FOR STRUCTION INSPECTIONS)	
Required Verification and Inspection	Frequency of Verification and Inspection	IBC Section and Reference Standard	Inspector Qualifications
Inspection of reinforcing steel, including prestressing sendons and placement.	Periodic	IBC 1908.4; ACI 318: 20, 25.2, 25.3, 26.5.1-26.5.3; Concrete and Concrete Reinforcement Notes on construction documents and Specifications	* Qualifications based on ASTM E329
2. Reinforcing bar welding:			
Verify weldability of reinforcing bars other an ASTM A 706	Periodic	AWS D1.4; ACI 318: 26.5.4; Concrete and Concrete Reinforcement Notes on	CWI or
b. Inspect single-pass welds, maximum 5/16"	Periodic	construction documents and	Associate CWI
c. Inspect all other welds	Continous	Specifications	
Inspect anchors cast in concrete	Periodic	ACI 318: 17.8.2; Specifications	Technician trained in field of work and has at least one year of experience
4. Inspection anchors installed in hardened concrete	members.		
Adhesive anchors installed in horizontal position, upward inclinded position, or as indicated on plans	Continous	ACI 318: 17.8.2.4; Specifications	Technician trained in
Mechanical anchors and adhesives anchors not defiened in part 4a	Periodic	ACI 318: 17.8.2; Specifications	field of work and ACI Adhesive Anchor Conflied
Verifying use of required design mix.	Periodic	IBC 1904.1., 1904.2, 1908.2, 1908.3; ACI 318: Ch. 19, 26.4.3, 26.4.4; Concrete and Concrete Reinforcement Notes on construction documents and Specifications	* Qualifications based on ASTM C1077
Prior to concrete placement, fabricate speciments for strength tests, perform slump and air content tests and determine the temperature of the concrete.	Continuous	IBC 1908.10; ASTM C 172, C31; ACI 318: 26.4.5, 26.1.2; Concrete and Concrete Reinforcement Notes on construction documents and Project Specifications	Qualifications based on ASTM C1077
Inspection of concrete and shotcrete placement for proper application techniques.	Continuous	IBC 1908.6, 1908.7.7, 1908.8; ACI 318: 26.4.5; Project specifications	* Qualifications based on ASTM C1077
Inspection for maintenance of specified curing temperature and techniques.	Períodic	IBC 1908.9; ACI 318: 26.4.7-26.4.9; Concrete and Concrete Reinforcement Notes on construction documents and Project Specifications	* Qualifications based on ASTM C1077
9. Inspection of prestressed concrete:			
a. Application of prestressing forces.	Continuous	ACI 318: 26.902.1, 26.9.2.3; Post-Tensioned Notes on construction documents	* Qualifications based on
b. Grouting of bonded prestressing tendons	Continuous	and project specifications	ASTM C1077
Erection of precast concrete members.	Periodic	ACI 318: 26.8; Structural Notes on conctruction documents and Project Specifications	
 Verification of in-situ concrete strength, prior to stressing of tendons in post tensioned concrete and prior to removal of shores and forms from beams and structural slabs. 	Periodic	ACI 318: 26.10.2; Post-Tensioned Notes on construction documents and project specifications	* Qualifications based on ASTM C1077
12. Inspect formwork for shape, location and dimensions of the concrete member being formed.	Periodic	ACI 318: 26.10.1(b); Details on construction documents and Project Specifications	

Required Verification and Inspection BOLTING STRUCTURAL STEEL	Frequency of Verification and Inspection	IBC Section and Reference Standard IBC 1705.2	Inspector Qualifications
Inspection tasks prior to boiling:			
Manufacturer's certifications available for fastener materials	Periodic	IBC 1705.2.1; AISC 360-10 C-N5.6-1; Structural Steel Notes	CWMAssociated Technical Graduate, AWS or CRSI
b. Fasteners marked in accordance with ASTM requirements	Periodic	on construction documents and specification section	
 Proper fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane): 	Periodic	05120	
d. Proper boilting procedure selected for joint detail 2	Periodic		
 Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements. 	Periodic		
 Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used 	Continuous		
g. Proper storage provided for bolts, nuts, washers and other fastener components	Periodic		
Inspection tasks during bolting:			
a. Fastener assemblies, of suitable condition, placed in all holes and weahers (if required) are positioned as required?	Periodic	IBC 1705.2.1; AISC 360-10 C-N5.6-2: Structural Steel Notes on construction	CWWAssociate/ Technical Graduate, AWS or CRSI
 b. Joint brought to the snug-light condition prior to the pretensioning operation² 	Periodic	documents and specification section 05120	
c. Fastener component not turned by the wrench prevented from rotating. ²	Periodic	7	
d. Fasteners are preterritored in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges	Periodic		
Inspection tasks after bolting:		-	•
Document acceptance or rejection of bolted connections	Continuous	AISC 360-10 C-N5.6-3	CWI/Associate/ Technical Graduate, AWS or CRSI

VERIFICATION AND SPECIAL INSPECTION TASKS FOR

 Inspection tasks noted in this table are the responsibility of the Special Inspector or Quality Assurance Inspector (QAI). The fabricator and erector are responsible for all inspection tasks indicated in AISC 590-10 Section NS and assigned to the Quality Corroll Inspector (QCI). Inspection tasks may be coordinated with the fabricator or erector's Quality Control Inspector (QCI) where indicated with this footnote. All other tasks shall be performed by the Special Inspector.

	(IBC 1705.2.3)		
Required Verification and Inspection	Frequency of Verification and Inspection	Reference Standard	Inspector Qualifications
Installation of open-web steel joist and joist girders			
a. End connections - welding or bolted	Periodic	SJI specifications listed in 2207.1	CWI/Associate/ Technical Graduate, or AWS
b. Bridging - hozinotal or diagonal			
Standard bridging	Periodic		
Bridging that differs from SJI specifications listed in Section 2207.1	Periodic		

Control and Teaching of westing consumables * Control and Teaching of Westing of We	VERIFICATION AND SPECIAL INSPECTION TASKS FOR WELDING OF STRUCTURAL STEEL! (AISC 360-10 TABLES C-NS.4-1, C-NS.4-2, C-NS.4-3)				
WILLINGS OF STRUCTURAL STEEL I Implication labels provided by wellings a Westing procedure specifications (PPSG) available. Continuous A Westing procedure specifications (PPSG) available. Continuous A Westing procedure specifications of westing constructions for westing constructions and continuous A Westing state structure of the specification of the speci		Verification and	Reference Standard		
A third processor specification (PTRS) available December 1			IBC 1705.2		
Neurolations outside the wilding of the wildin					
Lorentable Continues Communication Communication Communication Continues Communication Continues Communication Com		Continuous	380.10 C.N5.4-1		
C. Marcia desiration theorypates Product A Theory of grown will desiration system? For Place of grown will desirating systematics? For Place of grown will desirate systematics? For Place of grown will desirate systematics? For Place of the systematics of the systematics? For Place of the systematics? For Place of the systematics of the systematics? For Place of the systematics? For Place of the systematics of the systematics? For Place	consumables available.	Continuous	Steel Notes on construction	CWI and ASNT Licensed Engine	
d. Villade inferential consistent and inferential part of parametry 1. 1 Justice proposation. 1. 1 Justice proposation. 1. 1 Justice proposation. 1. 1 Justice proposation. 1. 1 Testing lock work quality and biodisory. 2. 1 Testing lock work quality and biodisory. 2. 1 Testing lock work quality and biodisory. 3. 1 Testing lock work quality and biodisory. 3. 1 Testing lock work quality and biodisory. 4. 1 Testing lock work quality and biodisory. 5. 1 Testing lock work quality and biodisory. 5. 1 Testing lock work quality and biodisory. 6. 1 Testing lock work quality and biodisory. 7. 1 Testing lock work quality and biodisory. 8. 1 Testing lock work quality and biodisory. 8. 1 Testing lock work quality and biodisory. 9. 1 Testing lock work quality and biodisory. 9. 1 Testing lock work quality and biodisory. 10. 1 Testing lock work quality and biodisory. 11. 1 Testing lock work quality and biodisory. 12. 1 Testing lock work quality and biodisory. 13. 1 Testing lock work quality and biodisory. 14. 1 Testing lock work quality and biodisory. 15. 1 Testing lock work quality and biodisory. 16. 1 Testing lock work quality and biodisory. 17. 1 Testing lock work quality and biodisory. 18. 1 Testing lock work quality and biodisory. 19. 1 Testing lock work quality and biodisory. 10. 1 Testing lock work quality and biodisory. 10. 1 Testing lock work quality and biodisory. 10. 1 Testing lock work q	c. Material identification (type/grade) ²	Periodic	specification section		
1) Discriptorium common, not operation, part and, bearing part and	d. Welder identification system ²	Periodic			
p. Files of the valids ?	Joint preparation. Dimensions (alignment, root opening, post from head)	Periodic			
1) Discretions degrand, space in conduction 2) Tracing labor virtually and location 3) Tracing labor virtually and location 4. Little of qualified within 4. Little of qualified within 5. Control and health of shell of present and an analysis of the conduction of t	f. Configuration and finish of access holes. ²	Periodic			
a. Use of qualified settless b. Cores and inharding of settles generalisties control of the Act	Dimensions (alignment, gaps at root) Cleanliness (condition of steel surfaces) Tacking (tack weld quality and location)	Periodic			
Control and Technique of westing consumables * Control and Technique of Westing	Inspection tasks during welding:				
B. Contract and Marketing of related processional and a second of the s	a. Use of qualified welders	Periodic		CWI and ASIAT of Licensed Engine	
C. No working over canable task wells* Protodic Financial Control Control Protodic	1) Packaging	Periodic	AWS D1.1; Structural Steel Notes on construction documents and		
1 To Virtual speaks with limits 2 Periodic 3 Pregiotion of Importance 4 UPS to Studied 5 To Get Speaks 5 To Get Speaks 6 To The Get Speaks 7 The Ge	c. No welding over cracked tack welds 2	Periodic	05120		
1) Earling on well outperment 2) Edited by Company (1) Edited by C		Periodic			
1) Incipiona and final disceregical and final	Satings on wold equipment Travel speed Salocted welding materials Salocted welding materials Sholding gas type/Tow rate Preheat applied Interpose temperature maintained (min./max.)	Periodic			
a. Wester cleanment A. Sizes, inception and location of wester Continuous C	Interpass and final cleaning Each pass within profile limitations	Periodic			
b. Stax, largh and location of webs Continuous Liversea Continuous	Inspection tasks after welding:				
B. Biss regilt and location of website Continuous ANTO B.1.1, Stockural Visited meet verifice concentration (1) Continuous verification Continuous verification Continuous verification Visited meet verification Continuous verification Visited meet verification Visited verification Visited verification Continuous Visited verification V	a. Welds cleaned	Periodic	IBC 1705.2.1; AISC 360-10 C-N5.4-2:	CWI and ASNT or	
and specification ment should accorpance officing by Trigothase ment should accorpance officing by Trigothase ment should accorpance officing to the specification of the specif	b. Size, length and location of welds	Continuous	AWS D1.1; Structural Steel Notes on		
e. It dates 1 Continuous E. Bucking semoned and weld table removed (if required) g. Rippia sofelibles Continuous Continuous Continuous Continuous Continuous Continuous Continuous No Romanta continuous Continuou	Crack Prohibition Weld bear metal fusion Crater cross section Weld profiles Weld size Weld size	Continuous	and specification		
Backing removed and weld table removed (8 required) Continuous Repair activities Continuous Continuous Noter activities	d. Arc strikes	Continuous			
g. Repair activities h. Document acceptance or relection of weblied faint	e. k-area ³	Continuous			
h. Document acceptance or relection of welded joint	f. Backing removed and weld tabs removed (if required)	Continuous			
h. Document acceptance or rejection of welded joint Continuous	g. Repair activities	Continuous			
	h. Document acceptance or rejection of welded joint or member	Continuous	7		

 Inspection tasks noted in this table are the responsibility of the Special Inspector or Quality Assurance Inspector (QAI). The fabricator and erector are responsible for all inspection tasks indicated in AISC 380-10 Section NS and assigned to the Quality Control Inspector (QCI). Inspection tasks may be coordinated with the fabricator or erector's Quality Control Inspector (QCI) where indicated with this footnote.
 All other tasks shall be performed by the Special Inspector.

When welding of doubler plates, continuity plates or stiffen within 3 in. (75 mm) of the weld.

STEEL CONSTRUCTION	AND SPECIAL IN ON OTHER THAN S BC TABLE 1705.2.	STRUCTURAL STEEL			
Required Verification and Inspection	Inspector Qualifications				
Material verification of cold-formed steel deck:					
 a. Identification markings to conform to ASTM standards specified in the approved construction documents 	Periodic	IBC 1705.2.2; Applicable ASTM Materials Standards; Structural Stool Mores	CWI/Associate/ Technical Graduate, AWS or CRSI		
b. Manufacturer's certified test reports	Periodic	on construction documents and specifications			
Inspection of welding other than structural steet:		•			
a. Cold-formed steel deck:			CWI/Associate/ Terhnical		
1) Floor and roof deck welds	Periodic	AWS D1.3	Graduate, AWS or CRSI		
b. Reinforcing steel:		IBC 1705.2.2; AWS	1		
Verification of weldability of reinforcing steel other than ASTM A706	Periodic	Section 3.5.2; concrete and concrete reinforcement notes			
 Reinforcing steel resisting fleoural and adult forces in intermediate and special moment frames, and boundary elements of special structural walls of concrete and shear reinforcement 	Continuous	on construction documents and specifications			
Shear reinforcement	Continuous	1			
4. Other reinforcement steel	Periodic	1			

STRUCTURAL STEEL ELEMENTS OF	CIAL INSPECTION COMPOSITE CON T (AISC 360-10 TAI	STRUCTION PRIOR TO	CONCRETE
Required Verification and Inspection STRUCTURAL STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT	Frequency of Verification and Inspection	Reference Standard	Inspector Qualifications
Placement and installation of steel deck	Continuous	AISC 360-10 N6.1; Metal Deck Notes on	CWI/Associate/ Technical
2. Placement and installation of steel headed stud anchors	Continuous	construction documents and	Graduate, AWS or CRSI
Document acceptance or rejection of steel elements	Continuous	specification section 05310	

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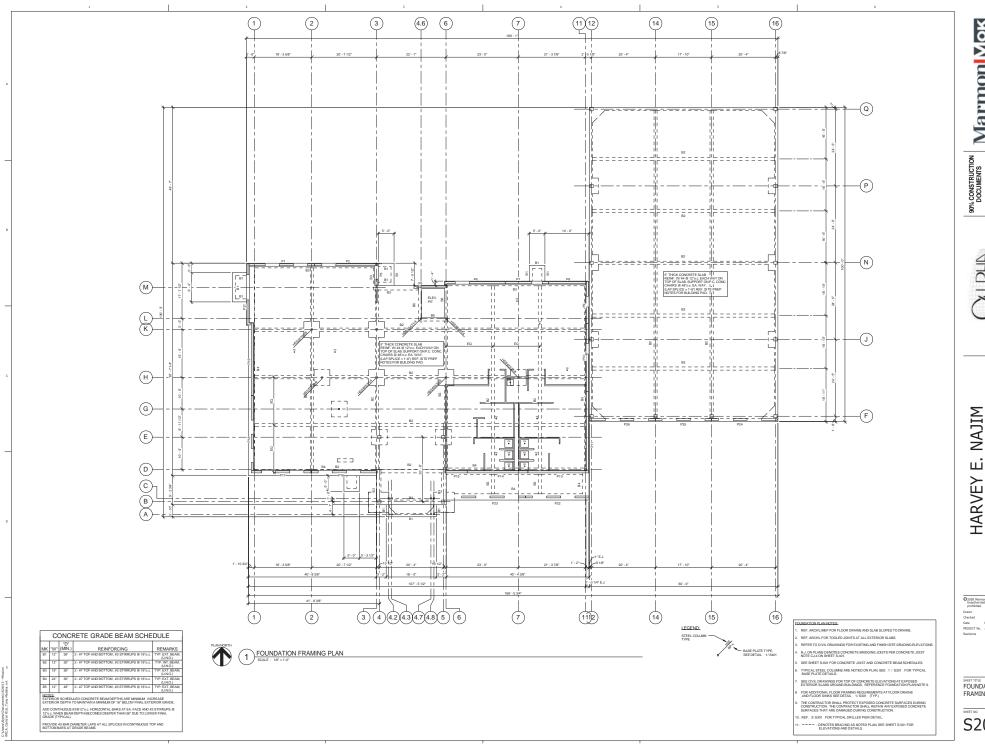
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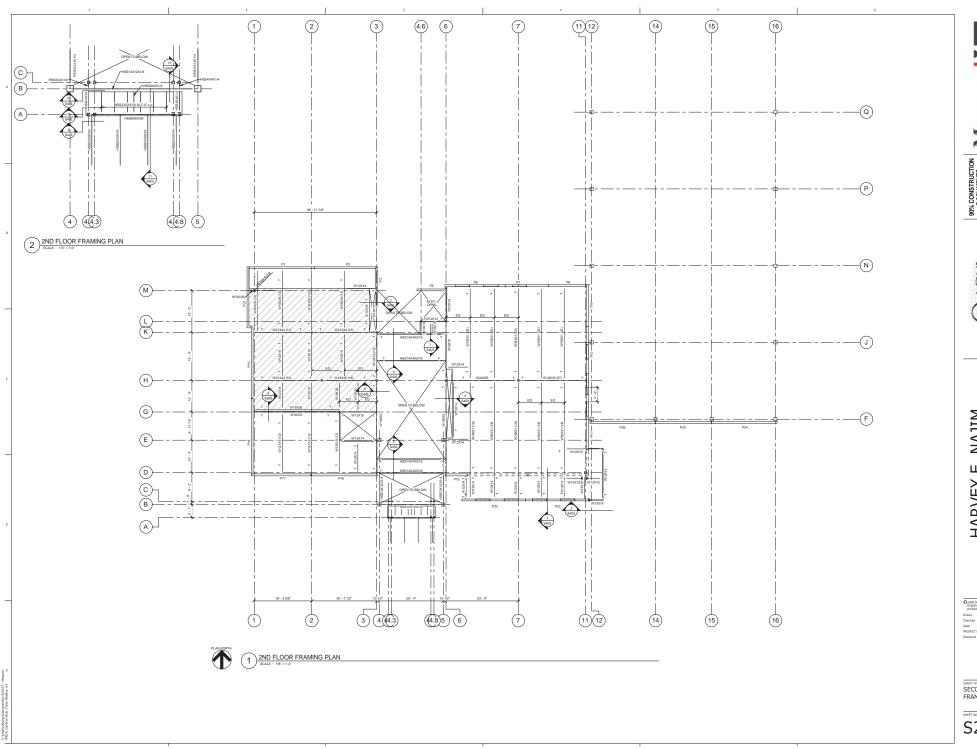
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FOUNDATION FRAMING PLAN



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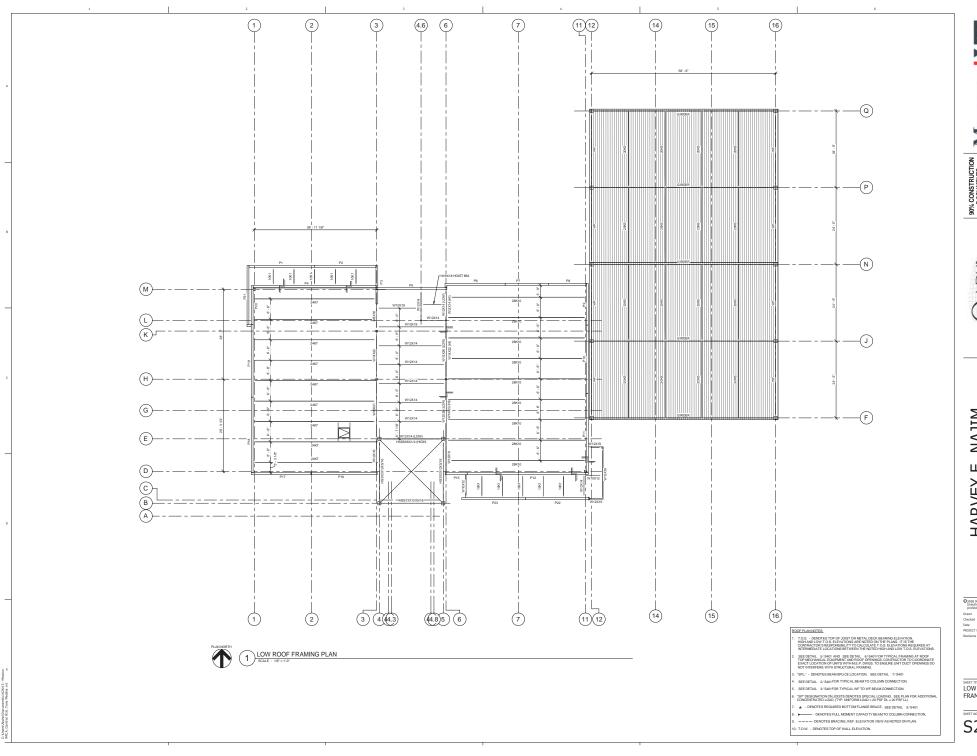
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SECOND FLOOR FRAMING PLAN

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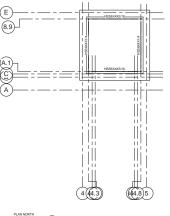
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"SPL." - DENOTES BEAM SPLICE LOCATION, SEE DETAIL 7/S401 SEE DETAIL 2/S401 FOR TYPICAL BEAM TO COLUMN CONNECTION.

SEE DETAIL 3/S401 FOR TYPICAL WF TO WF BEAM CONNECTION. "SP" DESIGNATION ON JOISTS DENOTES SPECIAL LOADING. SEE PLAN FC CONCENTRATED LOAD. (TYP. UNIFORM LOAD = 20 PSF DL + 20 PSF LL) * - DENOTES REQUIRED BOTTOM FLANGE BRACE, SEE DETAIL 9/ S401 ► DENOTES FULL MOMENT CAPACITY BEAM TO COLUMN CONNECTION DENOTES BRACING, REF. ELEVATION VIEW AS NOTED ON PLAN.
 TO.W. - DENOTES TOP OF WALL ELEVATION.

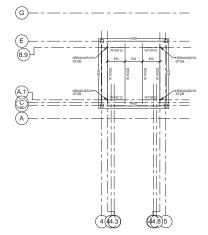
HIGH ROOF FRAMING PLAN

S204



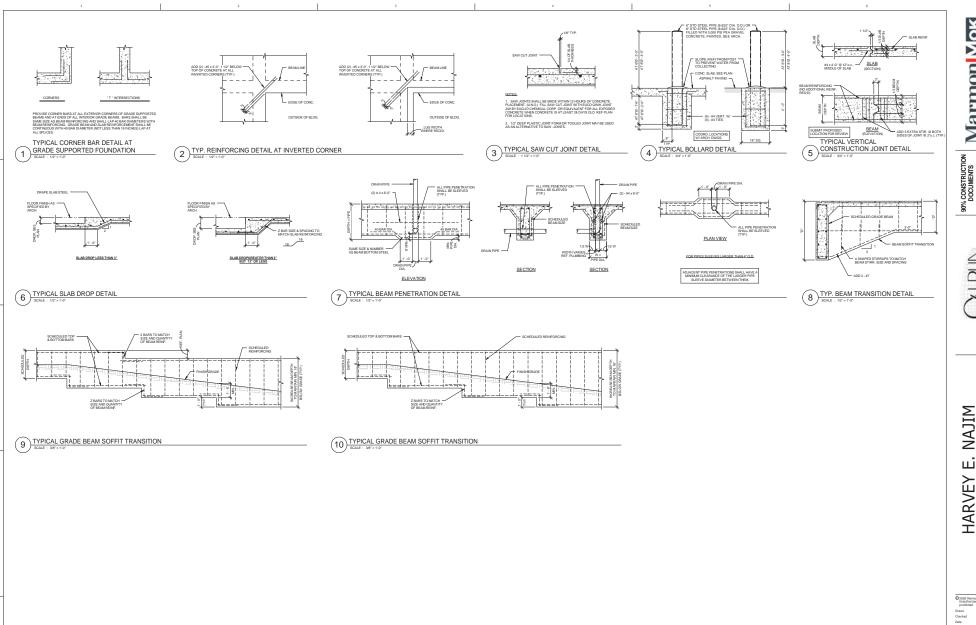


2 BEACON FRAMING PLAN
SCALE: 1/8" = 1'-0"





1 HIGH ROOF FRAMING PLAN



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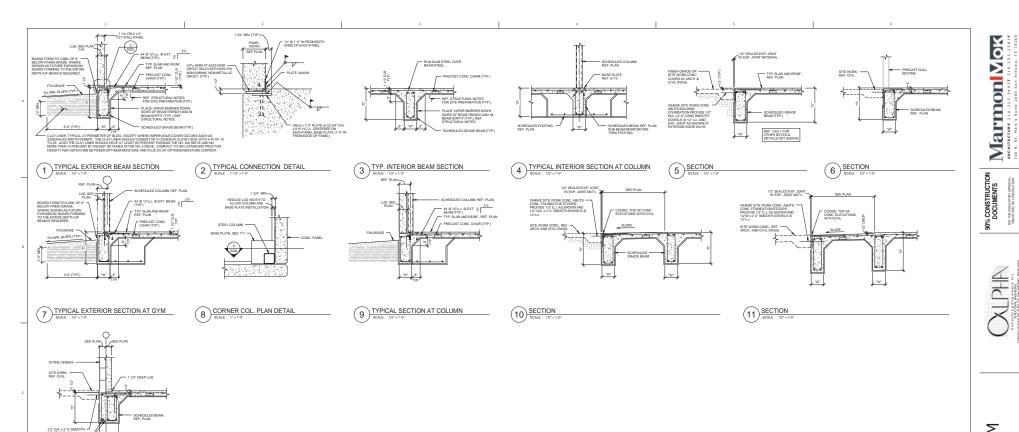
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TYPICAL SECTIONS
AND DETAILS



(1) #5 TOP & BOTT. W/ #3 TIES @ 12*o.c.

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

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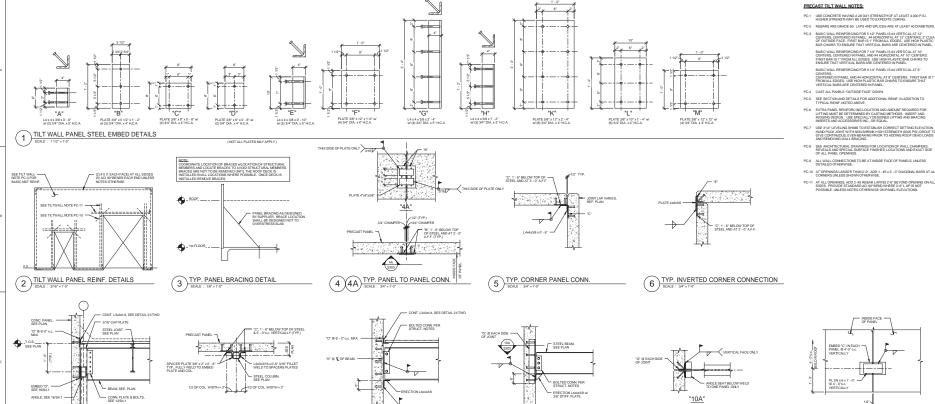
PANEL CONN. DETAIL



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TYPICAL DETAILS AND NOTES

S303



9 TYP. BEAM TO PANEL CONN.

8 TYP. COL. TO PANEL CONN.

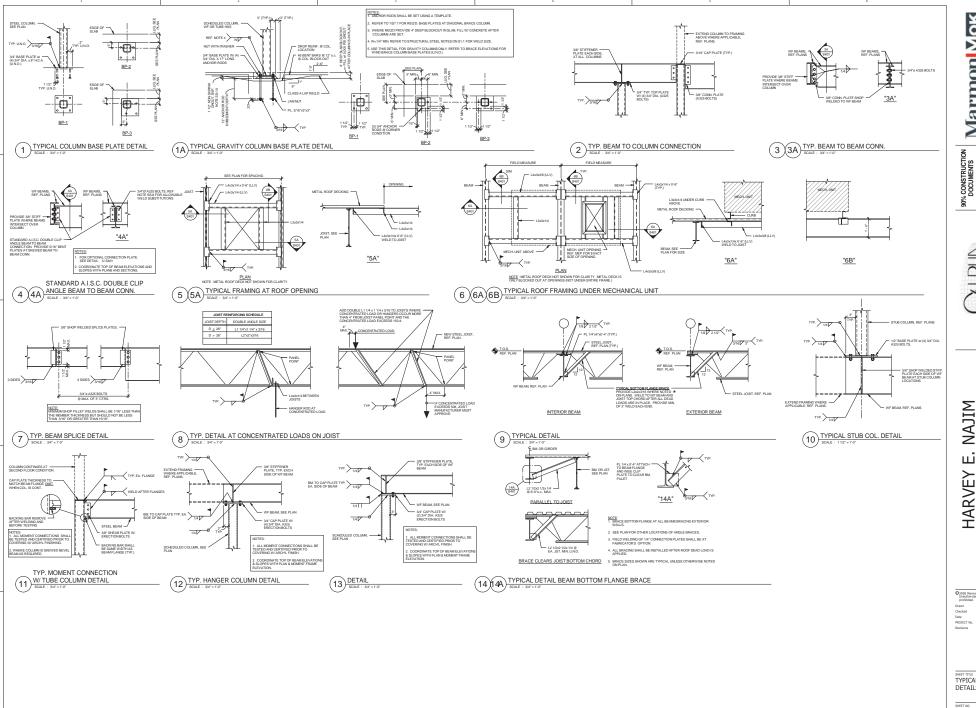
JOIST FRAMING INTO CONC. PANEL JOINT

CENTERLINE OF PLATE TYP. BEAM TO PANEL CONN.
AT PANEL JOINT
SCALE: SW'=1'-0'

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7 TYPICAL SECTION
SCALE: 34"=1"-0"

12 HEADER PANEL CONN. DETAIL

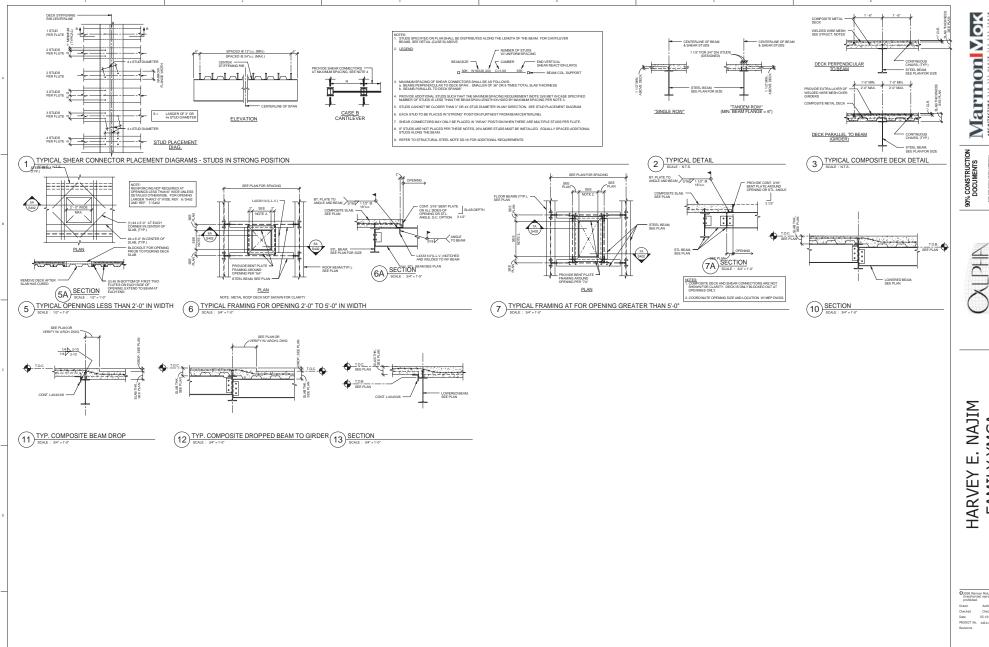


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TYPICAL STEEL DETAILS

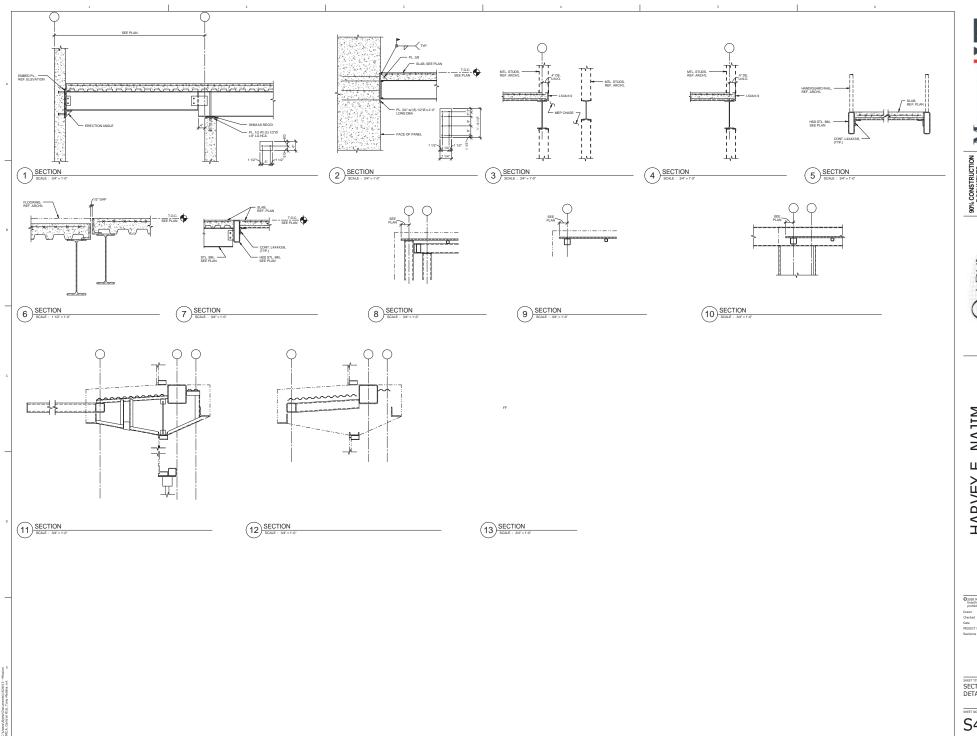


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TYPICAL COMPOSITE SECTIONS AND DETAILS



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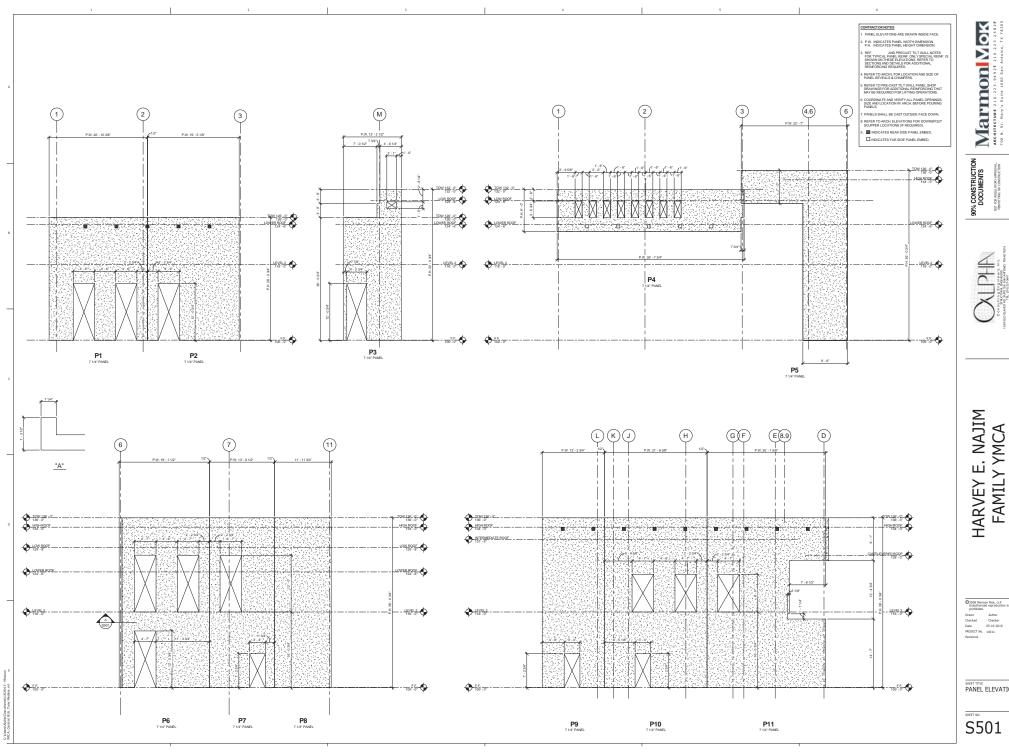
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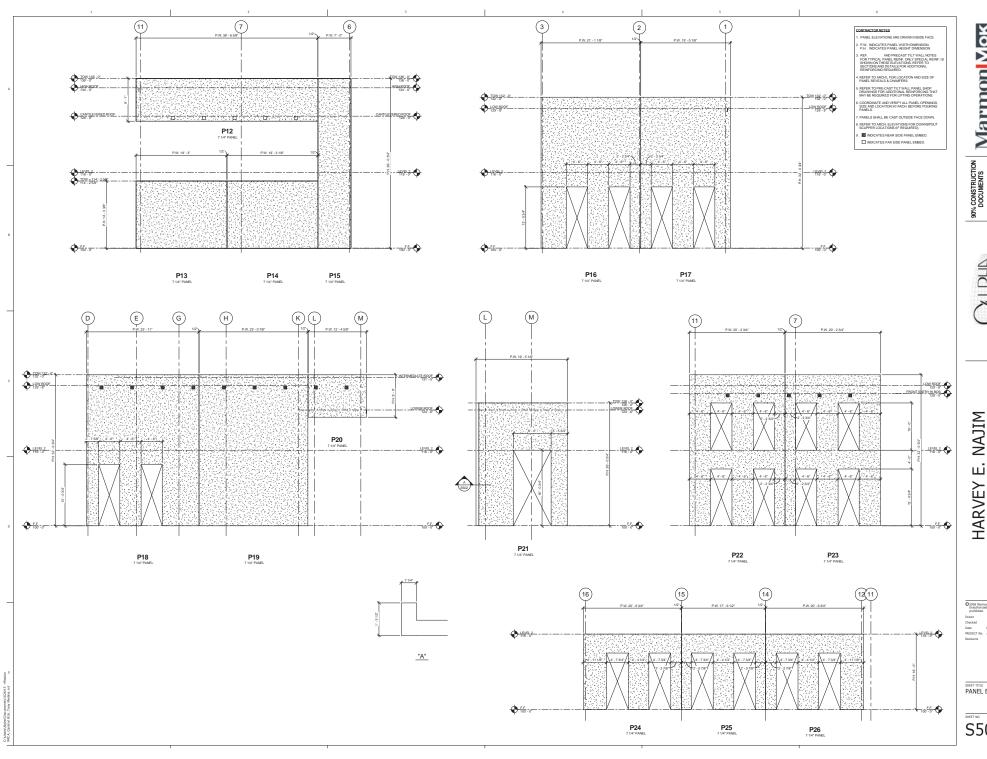


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SHEET TITLE
PANEL ELEVATIONS



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SHEET TITLE
PANEL ELEVATIONS

MISSION

SYMBOLS, ABBREV, & GENERAL NOTES

M100

ABBREVIATIONS

(NOTE: ALL STREETS STORY	THE NOT RECEDENCE OLD ON DIGHTHOUS
	DUCTWORK
20x20	DUCTWORK SIZE. 1ST NO. VISIBLE DIMENSIONS
	INTERNALLY LINED DUCTWORK
	DOUBLE WALL INSULATED DUCTWORK
	DUCTWORK ELBOW
	BRANCH DUCT SIDE TAKEOFF
	SPLITTER
	TRANSITION (RECTANGULAR)
	TRANSITION (RECTANGULAR TO ROUND)
	FLEXIBLE DUCT
	FLEXIBLE CONNECTION
	VOLUME DAMPER
	FIRE DAMPER COMBINATION (FD) SMOKE DAMPER (SD) OR FIRE / SMOKE DAMPER (F/SD) ALL WITH ACCESS DOORS
	CHANGE IN ELEVATION (R) RISE (F) FALL
<u> </u>	SIDEWALL GRILLE OR REGISTER (SUPPLY)
<u></u>	SIDEWALL GRILLE OR REGISTER (RETURN OR EXHAUST)
\boxtimes \otimes	SUPPLY DUCT SECTION RECTANGULAR, ROUND
	RETURN / EXHAUST / OUTSIDE AIR DUCT SECTION
\boxtimes	CEILING GRILLE OR REGISTER (SUPPLY)
	CEILING GRILL OR REGISTER (EXHAUST OR RETURN)
TC	TIME CLOCK
■ TS-1	ELECTRONIC, PROGRAMMABLE THERMOSTAT WITH ADJUSTABLE LIMIT STOPS
1	

SYMBOLS

(NOTE: ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON DRAWINGS)

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
ADDREVIATION	DESCRIPTION	ADDREVIATION	DESCRIPTION
A/C	AIR CONDITION(-INGED)	KW	KILOWATT
AC	ABOVE CEILING		
AFF	ABOVE FINISHED FLOOR	LAT	LEAVING AIR TEMPERATURE
AHU	AIR-HANDLING UNIT	LB(S)	POUND(S)
ALT	ALTERNATE	LF	LINEAR FEET
AP	ACCESS PANEL	LIQ	LIQUID
APPROX	APPROXIMATE	LTHW	LOW-TEMPERATURE, HOT WATER
ARCH	ARCHITECT	LWT	LEAVING WATER TEMPERATURE
BFF	BELOW FINISHED FLOOR	MAU	MAKE-UP AIR UNIT
BHP	BRAKE HORSEPOWER	MD	MOTORIZED DAMPER
BLDG	BUILDING	MEZZ	MEZZANINE
BLR	BOILER	MFR	MANUFACTURER
BOD	BOTTOM OF DUCT	MISC	MISCELLANEOUS
BOP	BOTTOM OF PIPE	MTD	MOUNTED
BTU	BRITISH THERMAL UNITS		
BTUH	BRITISH THERMAL UNITS PER HOUR	N/A	NOT APPLICABLE
		NC	NOISE CRITERIA
°C	CELSIUS	NC	NORMALLY CLOSED
CFM	CUBIC FEET PER MINUTE	NIC	NOT IN CONTRACT
CMPR	COMPRESSOR	NO	NORMALLY OPEN
00	CLEANOUT	NO	NUMBER
002	CARBON DIOXIDE	NTS	NOT TO SCALE
COND	CONDENS(-ERINGATION)		
CU FT	CUBIC FEET	OA.	OUTSIDE AIR
CU IN	CUBIC INCH	OD	DIAMETER, OUTSIDE
		ODU	OUTDOOR UNIT
DB	DECIBEL	OZ	OUNCE
DBT	DRY-BULB TEMPERATURE		
DEG OR *	DEGREE	PD	PRESSURE DROP OR DIFFERENCE
DIA	DIAMETER	PH	PHASE
DIFF	DIFFERENCE OR DELTA	PPM	PARTS PER MILLION
DN	DOWN	PSI	POUNDS PER SQUARE INCH
DPT	DEW-POINT TEMPERATURE	PSIA	POUNDS PER SQUARE INCH ABSOLUTE
		PSIG	POUNDS PER SQUARE INCH GAGE
EA	EACH		
EAT	ENTERING AIR TEMPERATURE	RA	RETURN AIR
ECON	ECONOMIZER	RECIRC	RECIRCULATE
EF	EXHAUST FAN	REF	ROOF EXHAUST FAN
EFF	EFFICIENCY	RH	RELATIVE HUMIDITY
ELEC	ELECTRIC(AL)	RPM	REVOLUTIONS PER MINUTE
ELEV	ELEVATION	RTU	ROOF TOP UNIT
EQUIP	EQUIPMENT		
EWT	ENTERING WATER TEMPERATURE	SA	SUPPLY AIR
		SCH	SCHEDULE
"F	FAHRENHEIT	SD	SMOKE DAMPER
FCU	FAN COIL UNIT	SP	STATIC PRESSURE
FPM	FEET PER MINUTE	SPEC	SPECIFICATION
FPS	FEET PER SECOND	80	SQUARE
FRN	FURNACE	STD	STANDARD
FT	FOOT OR FEET	SUCT	SUCTION
		SUSP	SUSPENDED
GA	GAGE OR GAUGE		
GAL	GALLONS	TD	TEMPERATURE DIFFERENCE
GPD	GALLONS PER DAY	TEMP	TEMPERATURE
GPH	GALLONS PER HOUR	TONS	TONS OF REFRIGERATION
GPM	GALLONS PER MINUTE	TS	THERMOSTAT
GR	GRAINS		
		UH	UNIT HEATER
HD	HEAD		
HP	HORSEPOWER	VAV	VARIABLE AIR VOLUME
HVAC	HEATING, VENTILATION AND AIR	VERT	VERTICAL
	CONDITIONING	VFD	VARIABLE FREQUENCY DRIVE
IN	INCH	W/	WITH
ID	DIAMETER, INSIDE	WBT	WET-BULB TEMPERATURE
IDU	INDOOR UNIT		
		Z	ZONE

GENERAL NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE APPLICABLE INC, SHEET METAL AND AIR CONDITIONING CONTRACTORS WATDOMA ASSOCIATION SMACHAY STANDARDS, AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING PICHINESS (ASHRAE) STANDARDS, APPLICABLE BULDING CODES, LOCAL AMENDMENTS, O.S.H.A LATEST EDITIONS, AND MANUFACTURER INSTRUCTIONS.
- THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES PRIOR TO THE INSTALLATION OF THE DUCT PIPING, FIXTURES AND EQUIPMENT.
- CONTRACTOR SHALL CONSULT WITH THE ENGINEER IF THE SYSTEM CANNOT BE INSTALLED AS DESIGNED. I CONTRACTOR IDENTIFIES ANY DISCREPANCIES WHILE PRICING THE PROJECT, CONTRACTOR SHALL NOTIFY ARCHITECT AND ENGINEER AND RESOLVE ISSUE(S) PRIOR TO SUBMITTING PIAL. PRIOR.
- DRAWINGS ARE DIAGRAMMATIC ONLY AND SHALL NOT BE SCALED. NOT ALL COMPONENTS CAN BE SHOWN BUT MUST BE INCLUDED TO ENSURE A FUNCTIONAL SYSTEM.
- 5. CONTRACTOR TO PROVIDE SYSTEM OPERATION AND MAINTENANCE MANUAL TO OWNER.
- CONTRACTOR SHALL CONSULT WITH A STRUCTURAL ENGINEER TO BEFORE MODIFYING STRUCTURAL SYSTEMS BY CUTTING, NOTCHING, BORING, ETC. TO VERIFY STRUCTURAL CAPACITY BEFORE INSTALLATION
- THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER PRIOR TO DEVIATING FROM THE CONSTRUCTION DOCUMENTS.
- SHOULD THE INSTALLATION REQUIRE ADDITIONAL SYSTEM COMPONENTS IN ORDER TO ACCOMMODATE UNFORESEEN FIELD CONDITIONS, THE CONTRACTOR SHALL INCLUDE THE ITEMS AS PART OF THE SCOPE OF WORK IN THESE CONSTRUCTION DOCUMENTS.
- NO DUCTWORK OR PIPING SHALL PASS DIRECTLY OVER ELECTRICAL POWER DISTRIBUTION CABINETS CONTRACTOR TO VERIFY PANEL LOCATIONS PRIOR TO INSTALLATION.
- 10. CONTRACTOR SHALL ENSURE THAT EQUIPMENT AND APPURTENANCES ARE PROTECTED FROM FIELD CONDITIONS DURING INSTALLATION.
- 11. CONTRACTOR SHALL NOTIFY THE OWNER 72 HOURS PRIOR TO ANY SHUTDOWN OF UTILITIES.
- ALL DEVICES SUCH AS DAMPERS, VALVES, ETC. WHICH ARE LOCATED BEHIND GYPSUM BOARD ARE REQUIRED TO HAVE ACCESS PANELS.
- 14. FURNISH AND INSTALL DUCT SMOKE DETECTORS AS REQUIRED PER CODE FOR EACH SYSTEM. FIRE OR FREISMOKE DAMFERS (WHERE REQUIRED) ARE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR PROVIDE AUTOMATIC SHIPTIOWN UPON INITIATION OF THE FIRE ALARM SYSTEM.

GENERAL NOTES REFERENCE SHEET M100 FOR LEGENDS, SYMBOLS, ABBREVIATIONS AND FURTHER GENERAL NOTES. 2. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES PRIOR TO THE INSTALLATION OF THE DUCT, PIPING FIXTURES, AND EQUIPMENT. 3. ROUTE ALL DUCTWORK TIGHT TO STRUCTURE

KEYED NOTES (7)

THE FLUUR.

2. FURNISH AND INSTALL A KITCHEN HOOD ABOVE THE KITCHEN RANGE. EXTEND THE CHIMNEY COVER AS RECUIRED TO EXTEND FLUSH WITH THE CEILING, TRANSITION FROM THE FORSCHAFFE DUCT TO A 10 PANALIST DUCT ABOVE THE CELLING, TRANSITION AND CONNECT TO THE EDHALIST FAN MIT HER ROOF, INTERLIGISCH HER KITCHEN HOOD OPERATION.

5. FURNISH AND INSTALL A 3KW ELECTRIC UNIT HEATER WITH INTEGRAL THERMOSTAT.

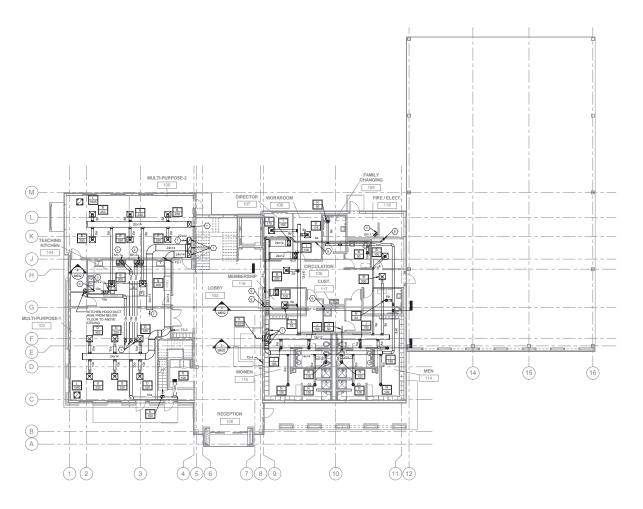
ROUTE AN INSULATED CONDENSATE COLLECTION PIPE FROM THE CHASE ON THE SECOND FLOOR TO ABOVE THE FRIST FLOOR CELLING, DOWN EXPOSED ON THE WALL OF TO JANTORS CLOSET, AND TERMINATE WITH APPROVED AIR QAP OVER THE BIMO SINK.

9. ROUTE A 4" DRYER VENT FROM THE CONNECTION POINT I THE LAUNDRY ROOM, UP WITHIN THE WALL TO ABOVE THE CELING, ACROSS THE FIRST FLOOR AND UP WITHIN THE CHASE ON THE SECOND FLOOR.

SHEET TITLE LEVEL 1

MECHANICAL PLAN

M201



1 MECHANICAL PLAN - LEVEL 1

GENERAL NOTES

1. REFERENCE SHEET MIDD FOR LEGENDS, SYMBOLS, ABBREVANTIONS AND PRITIEST GENERAL NOTES.

2. THE CONTINUETOR SHALL COORDINATE WITH OTHER TRADES PRIOR OF THE INSTALLATION OF THE OUT. PIPMO FEXTURES, AND EQUIPMENT.

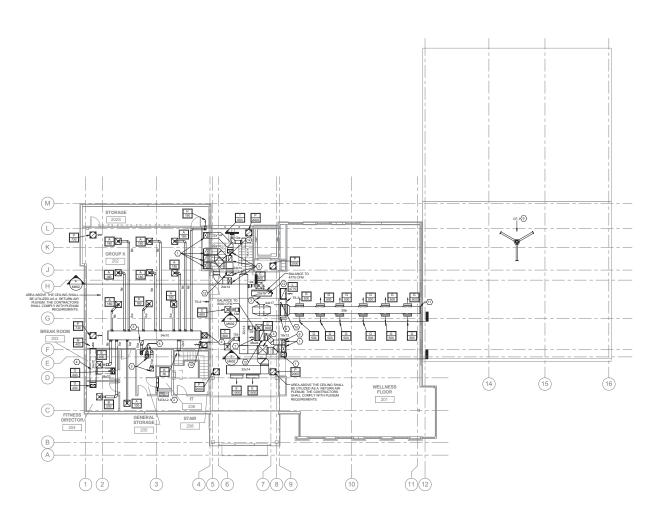
3. ROUTE ALL DUCTHORS THOST TO STRUCTURE.

1. ROUTE THE DUCT WORK DOWN THRU THE FLOOR BELOW WITHIN THE DUCT CHASE. SEAL THE PENETRATION THRU THE FLOOR.

STRUCTURE AND CONNECT TO THE EXHAUST PLENU CONNECTED TO THE EXHAUST FAN ON THE ROOF.

12. DUCT MOUNTED SMOKE DETECTOR. FURNISHED BY THE FIRE ALARM CONTRACTOR, INSTALLED BY THE MECHANICAL CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR COORDINATE WITH ALL TRADES AND INSTALL AS REQUIRED THE MANUFACTURER RECOMMENDATIONS.

M202



MECHANICAL PLAN - LEVEL 2

SCALE: 18" = 1'-0"

GENERAL NOTES REFERENCE SHEET M100 FOR LEGENDS, SYMBOLS, ABBREVIATIONS AND FURTHER GENERAL NOTES. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES PRIOR TO THE INSTALLATION OF THE DUCT, PIPING, FIXTURES, AND EQUIPMENT.

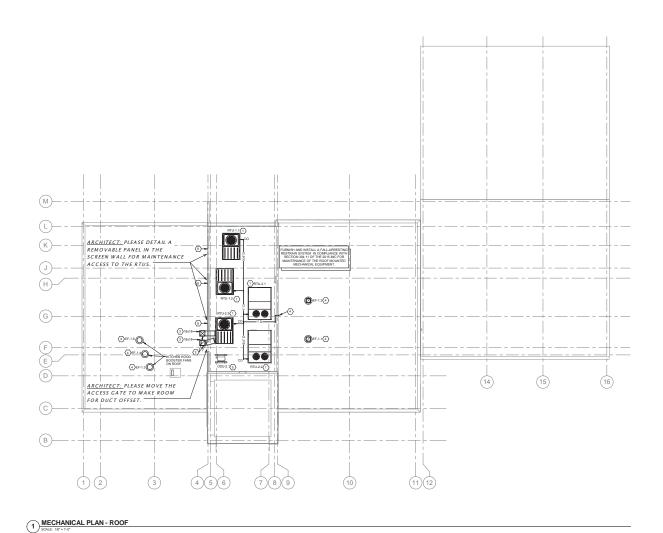
KEYED NOTES (7) FURNISH AND INSTALL A ROOF TOP UNIT (RTU) ON A 10° PRE-MANUFACTURED ROOF CURB SLOPED TO ENSURE THE UNIT IS SUBJECT OF THE SUBJECT OF THE UNIT AND ROUTE A 24° CONDENSATE DISCLARGE OF THE UNIT AND ROUTE A 24° CONDENSATE PIPE FROM THE TRAP AND CONNECT TO THE CONDENSATE PIPE FROM THE TRAP AND CONNECT TO THE

2. ROUTE THE DUCTWORK THRU THE SCREEN WALL ROUTE THE DUCTWORK THRU THE ROOF, PENETRATE THE ROOF WITH ROOF CURB. REFERENCE SHEET M202 FOR CONTINUATION. 4. FURNISH AND INSTALL AN EXHAUST FAN ON A 10° PRE-MANUFACTURED ROOF CURB. 5. FURNISH AND INSTALL A CONDENSING UNIT (ODU-1) ON THE ROOF, MOUNT THE CONDENSING UNIT ON A BASE RAIL ROOF CURB SYSTEM APPROVED BY THE ROOF INSTALLER. 6. THE CONTRACTOR SHALL COORDINATE REMOVABLE MAINTENANCE ACCESS OPENINGS THRU THE PERORATED SCREEN WALL AS REQUIRED FOR THE MAINTENANCE OF THE RTUS. 7. ROUTE THE 1" CONDENSATE COLLECTION SYSTEM ACROSS THE ROOF WITH A MINIMUM 12" PER FOOT SLOPE, PENETRATE THE PARAPET WALL AND DOWN WITHIN THE CHASE TO THE FIRST FLOOR.

MISSION FAMILY

SHEET TITLE ROOF MECHANICAL

M203





San Antonio,

MECHANICAL DETAILS

M601

SECURE FAN BASE TO CURB MINIMUM 2 LOCATIONS EACH SIDE AND ON CURB CENTERS AIR HANDLING UNIT OR AIR CONDITIONING UNIT FLEX DUCT MAX 6'-0' FLEX DUCT SIZE SHALL MATCH NECK SIZE THE AIR DEVICE 1/4 X WIDTH BUT NOT-LESS THAN 4* (DUCT BRANCH ONLY) EQUAL TO FAN NEGATIVE STATIC PRESSURE INSULATED FAN CURB MOUNT AND SECURE OF WOOD NAILER **BRANCH TAP DETAIL** SCALE N.T.S. 2 **ROOF FAN MOUNTING** SCALE N.T.S. 3 CONDENSATE DRAIN SCALE N.T.S. DUCTLESS MINI-SPLIT SYSTEM SCALE N.T.S. TYPICAL DIFFUSER CONNECTION SCALE N.T.S. NOTE: ROOF CURB TO BE PROVIDED BY MECHANICAL CONTRACTOR AND ALL FLASHING AND ROOFING TO BE PERFORMED BY CERTIFIED ROOFING CONTRACTOR. FIELD SUPPLIED FUSED DISCONNECT SWITCH ****** INSULATION 6 CONTROL WIRING TO INDOOR THERMOSTAT SCALE: N.T.S. ROOF CURB FOR PIPING PENETRATION SCALE N.T.S. SIDE DISCHARGE DX RTU SCALE N.T.S. **BOTTOM DISCHARGE DX RTU** SCALE N.T.S. ROOF CURB DETAIL LINEAR DIFFUSER DETAIL SCALE N.T.S. 8 9 10

EXHAUST F	AN SCHEDULE										
TAG	DESCRIPTION	SERVES	MANUFACTURER	MODEL#		ESP. SP	ELECT	TRICAL	SONES	WEIGHT	EF NOTES
IAG							VOLT / PH	HP	OUNES	WEIGHT	
EF-1.1	ROOF MOUNTED	LOCKERS	COOK	120C17DEC	800	0.75	208/1	0.5	8.5	67	1,2,3
EF-1.2	ROOF MOUNTED	DRYER	COOK	70C15DL	100	0.1	115/1	0.05	3.4	37	1,2,3,4
EF-1.3	ROOF MOUNTED	KH-3	COOK	100R10DH	446	0.1	115/1	0.04	6.8	31	1,2,3,5
EF-1.4	ROOF MOUNTED	KH-1	COOK	100R10DH	446	0.1	115/1	0.04	6.8	31	1,2,3,5
EF-1.6	ROOF MOUNTED	KH-2	COOK	90R15DH	600	0.1	115/1	0.125	7.4	37	1,2,3,5

INSTITE.

1. SEE MANUFACTURER NETRUCTIONS.

1. SEE MANUFACTURER NETRUCTIONS.

2. CORRIGO, FAN WITH TIMECLOCK WHICH DIVERSOR OF FRATING HOURS.

3. PARRISH AND INSTITUTION WHICH DIVERSOR HOURS AND ORBATT MACKEDART DAMPER.

4. ANTERIOCK THE DEVALUES FAN TO OPERATE WHICH THE OPERATION OF FRATING HOURS TO WHICH THE WITH T

HVLS FAN S	SCHEDULE									
TAG	DESCRIPTION	SERVES	MANUFACTURER	MODEL#	CFM		TRICAL	SONES	WEIGHT	NOTES
IAG	DESCRIPTION		MANUFACTURER	MODEL#	Urm	VOLT / PH	HP	OUNES	WEIGHT	NUIES
CF-1	HVLS	OUTDOOR	MACRO AIR	AVD 550 - 12'	106,000	120/1	1.05	60 DB	162	1,2,3

NOTES:

1. FAN MUST BE WASH DOWN DUTY RATED, IP65 FOR INDOOR AND OUTDOOR USE
2. OLEAR COAT ANDDIZED AIRFOIL BLADES, MAX 3 AIRFOIL BLADES
3. PROVINE WITH GEARLESS DIRECT DRIVE MOTOR.

BUILDING	AIR BALANCE SCHEE	ULE				
MARK	SERVES	SUPPLY	RETURN	EXHAUST	PRESSURE DIFF	PRESSURE
RTU-1.1	MULTI-PURPOSE105	2100	1645	0	455	POSITIVE
RTU-1.2	MULTI-PURPOSE 103	2120	1580	0	540	POSITIVE
RTU-2.1	WELLNESS	6000	4775	0	1225	POSITIVE
RTU-2.2	ATRIUM AND 1ST FLOOR	8665	8355	800	-500	NEGATIVE
RTU-2.3	GROUP X 202	2320	1460	0	860	POSITIVE

ELECT	ELECTRIC UNIT HEATER SCHEDULE								
TAG	MANUFACURER	MODEL#	SERVES	KW	VOLT/PH	NOTES			
UH-1.1	QMARK	MUH0381	RISER ROOM	3	208/1	1,2,3,4			

HVAC CO	NTROLS SCHEDULE			
TAG	TYPE	ROOM LOCATION	UNIT SERVED	NOTES
TS-1	7 DAY PROGRAMMABLE	MULTI-PURPOSE 105	RTU-1.1	1,2,3
TS-2	7 DAY PROGRAMMABLE	MULTI-PURPOSE 103	RTU-1.2	1,2,3
TS-3	7 DAY PROGRAMMABLE	WELLNESS	RTU-2.1	1,2,3
TS-4	7 DAY PROGRAMMABLE	ATRIUM AND 1ST FLOOR	RTU-2.2	1,2,3
TO 6	7 DAY DROODAMMARI E	OBOLIB V	DTI122	122

NOTES:

1. SEE MANUFACTURER INSTRUCTIONS.

2. COORDINATE THE EXACT LOCATION AND MOUNTING HEIGHT WITH THE ARCHTECT PRIOR TO ROUGH-IN.

3. FURNISH AND INSTALL THE THERMOSTAT WITH A CLEAR, LOCKING, PROTECTIVE COVER.

ROOF TOP UNIT SCHEDULE

TAG	MANUFACURER		SERVES	SUPPLY	OUTSIDE	ESP. SP	EFFICENCY	WEIGHT	EA	LA	TOTAL	HEATING		ELECTRICAL		RTU NOTES
				SUPPLI		(IN WG)	EER	·····			COOL MBH	KW	VOLT / PH			
RTU-1.1	TRANE	THC074	MULTI-PURPOSE105	2100	456	0.75	15.5	1400	78/65	55.4	65.3	18	208/3	57.5	60	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15
RTU-1.2	TRANE	THC074	MULTI-PURPOSE 103	2120	540	0.75	15.5	1400	81/66	55.3	65.4	18	208/3	57.5	60	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15
RTU-2.1	TRANE	THD210	WELLNESS	6000	1225	0.5	12.5	2400	78/65	54.6	192.1	54	208/3	163	175	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15
RTU-2.2	TRANE	THD240	ATRIUM AND 1ST FLOOR	8655	300	0.75	11.7	2500	73/63	55.3	219.4	54	208/3	163	175	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15
RTU-2.3	TRANE	THC092	GROUP X 202	2320	860	0.5	14.5	1400	83/67	57.1	82.4	18	208/3	57.5	60	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15

TOTAL AT THE PROVIDED HE THE PROVIDED HE STEED FROM THE PROVIDED HE THE PROVID

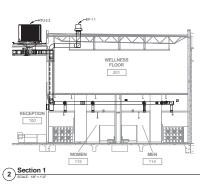
MINI SI	PLIT SYSTEM	SCHEDULE												
		MODEL # IDU / ODU	SERVES	SUPPLY	ESP. SP (IN WG)	EFFICENCY	AHU WEIGHT	CU WEIGHT	EA DB/WB	LA DB/WB	TOTAL COOL MBH	VOLT / PH	MCA / MOCP	NOTES
IDU-2.1	MITSUBISHI	PUY-A12NHA3	IT ROOM	425	0.1	15.2	90	100	72/61	52/51	12	208/1	13 / 15	1,2,3,4,5,6
	NOTES: 1. SEE INNUFACTURERS INSTRUCTIONS. 2. COORDINATE WITH OTHER TRACES.													

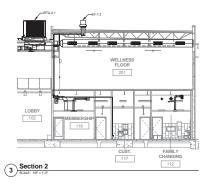
4.	UNIT SHALL BE CAPABLE OF PROVIDING SCHEDULED COOLING CAPACITY AT 0°F.
	PROVIDE WIND BAFFLES.
6.	PROVIDE AND INSTALL WALL MOUNTED CONTROLLER HARDWIRED TO IDU-1.

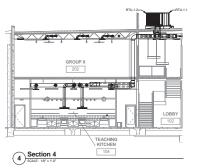
TAG	MANUFACURER	MODEL	MOUNTING	SIZE	NECK SIZE	MAX CFM	THROW (@100 FPM)	MAX NC	AD NOTES
A	TITUS	OMNI-AA	LAY-IN	6ø	6	190	4	20	1,2,3,4
В	TITUS	OMNI-AA	LAY-IN	8ø	8	315	6	20	1,2,3,4
С	TITUS	OMNI-AA	LAY-IN	12ø	12	628	11	20	1,2,3,4
D	TITUS	OMNI-AA	SURFACE	10ø	10	438	8	20	1,2,3,4
E	TITUS	300FL	SURFACE	48x12	48X12	1500	44	20	1,2,3,4
F	TITUS	300FL	SURFACE	20x20	20X20	1100	37	20	1,2,3,4
G	TITUS	300FL	SURFACE	30x10	30X10	800	30	20	1,2,3,4
Н	TITUS	300 FL	SURFACE	6x6	6008	114	10	20	1,2,3,4
- 1	TITUS	CT-580	SURFACE	4±49	12	656	26	20	1,2,3,4
J	TITUS	TMR-AA	SURFACE	8ø	8	280	NA.	20	1,2,3,4
K	TITUS	300FL	SURFACE	12x6	12X6	250	26	20	1,2,3,4
L	TITUS	350FL	SURFACE	42x42	42X42	5900	NA.	20	1,2,3,4
M	TITUS	350FL	SURFACE	24x12	24X12	1275	NA.	20	1,2,3,4
N	TITUS	TMR-AA	SURFACE	6ø	6	160	NA.	20	1,2,3,4
0	TITUS	50F	LAY-IN	24x12	24X12	1275	NA.	20	1,2,3,4
Р	TITUS	50F	LAY-IN	24x24	24X24	2600	NA.	20	1.2.3.4

1. SEE MANUFACTURER INSTRUCTIONS.
2. SEE MANUFACTURER INSTRUCTIONS.
2. COORDINATE WITH OTHER TRADES TO ENSURE SYSTEM FUNCTIONALITY AND MITIGATE CONFLICTS.
3. FINISH COLOR TO BE WHITE UNLESS SPECIFIED OTHERWISE BY ARCHITECT.
4. III. AIR DEPORTS TO RE 4. III. MAINIM.

16







Marmon Nox

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DEVELOPMENT
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Revisions

MECHANICAL ISOMETRIC

M602

5/18/2016 23:29:44 2:\Users\pousbo\Documents\2516AMAOK.0 AMPERE
ABOVE COUNTER
AMP FRAME
AMP FRAME
ARC FAULT CIRCUIT INTERRUPTER
ABOVE PINISHED FLOOR
ABOVE FINISHED GRADE
AIR HANDLING UNIT
AMPERE INTERRUPTING CAPACITY

AMPERE INTERRUPTING CAPACITY
ALLIMINUM
AMP SWITCH
AMP TRIP
AUTOMATIC TRANSFER SWITCH
ARCHITECT
AUDIOMETER BOX CONNECTION
AUXILIARY
AUXILIARY
AUXICAN WIRE GUAGE

CONDUIT
CAMERA
CATALOG
CABLE TELEVISION
CIRCUIT BREAKER
CIRCUIT
COLUNN
CURRENT TRANSFORMER
COPPER
CENTERLINE

DIRECT CURRENT DETECTOR DISCONNECT DISTRIBUTION DOWN DRAWING

DRAWING

WIRED ON EMERGENCY CIRCUIT
EACH
ELECTRICAL CONTRACTOR
EXMANDS FAN
ELECTRICAL
EL

EQUIPMENT ELECTRIC WATER COOLER ELECTRIC WATER HEATER

FLUSH
FIRE ALARM YOTHERS
FURNISHED STON CONTRACTOR
FAN COSL UNIT
FOUNDATION
FOR THE STON
FOR THE STON
FOR THE STON
FLECKE
FLOOR
FLO

GENERAL CONTRACTOR
GENERATOR
GROUND FAULT INTERRUPTER
GROUND FAULT PROTECTION EQUIP
GROUNDED
GALVANIZED RIGID CONDUIT

HEIGHT HORSEPOWER HIGH VOLTAGE HEATING, VENTILATION, AND AIR

CONDITIONING HOT WATER HERTZ (CYCLES PER SECOND)

JUNCTION BOX THOUSAND CIRCULAR MILS KNOCK-OUT KILOVOLT AMPERE KILOVOLT AMPERE REACTIVE KILOWATT

INDIVIDUAL ADDRESSABLE MODULE INTERCOMMUNICATION

1P 2P 3 4P 1P1W 1P2W 2P2W 2P3W 3P2W 3P3W 3P4W 4P4W

BLDG BUILDING

E
EA
EC
EF
ELEC
EMER
ENCL
EOL
EPO
EQUIP
EWC
EWC
EWH
EXIST

GC GEN GFI GFPE GND GRC

HW HZ

ABBREVIATION CESCRIPTION
LFMC LOUIDTIGHT FLEXIBLE METALLIC CONDUIT
LFNC LOUIDTIGHT FLEXIBLE METALLIC CONDUIT
LIP LIGHTING PANEL
LIST SWITCH

LIGHTING LOW VOLTAGE

MAINT MAU MAX MC MCB MCC MD MDP MFR MISC MLO MOD MTD MTD MTS

O2 OHD

REC RECP REF RL RM RMC RSC RTU

S SCH SD SEC SIG SN SPKR SPL SS STP STL SUSP SW SWBD

TC TCI

TCP TEL TEL/DATA TEMP TERM TV TYP

UC UG UH UOI UPS UTIL UTP

MAINTAINED MAKE-UP AIR UNIT

MAXIMUM METAL CLAD CABLE MAIN CIRCUIT BREAKER MOTOR CONTROL CENTI MOTORIZED DAMPER

MOTORIZED DAMPER
MAIN DISTRIBUTION PANEL
MANUFACTURER
MISCELLANEOUS
MAIN LUGG ONLY
MOTOR GPERATED DISCONNECT SWITCH
MOUNTED
MOUNTING
MANUAL TRANSFER SWITCH

NORTH NOT A PRIVATE TO THE NOT A PRIVATE TO THE NOT A PRIVATE TO THE NOT A POINT A COMPANY CLOSE ON THE NOT A SCONTRACT OF THE NORTH A CONTRACT OF THE NORMALT OF THE NORTH A CONTRACT OF THE NORTH A

OXYGEN OVERHEAD DOOR OPERATOR

POLE PULL BUS OF UPERVIOR PULL BUS SYSTEM CONTRACTOR PULL BUS SYSTEM CONTRACTOR POSS SECOND SYSTEM SYSTEM

REMOVE EXISTING RECESSED RECEPTACLE ROOF EXHAUST FAN RELOCATE EXISTING ROOM RIGID METAL CONDUIT ROOFTOP UNIT

SIGNAL SOLID NEUTRAL SPARE SPARE
SPEAKER
SPLICE
STAINLESS STEEL
STAINLESS STEEL
SHELDED TWISTED PAIR
CARBON STEEL
SUSPENDED
SWITCH
SWITCHBOARD

SURFACE MOUNTED SCHEDULE SMOKE DAMPER SECONDARY ELECTRIC SERVICE SECONDARY SIGNAL

SWITCHBURGO
TELEPONE CABINET
TELECOMMUNICATIONS CABLING
INSTALLER
TEMPERATURE CONTROL PANEL
TEMPERATURE CONTROL PANEL
TEMPONE DATA
TEMPONEDATA

UNIT HEATER
UNLESS OTHERWISE INDICATED
UNINTERRUPTIBLE POWER SOURCE
UTILITY
UNSHIELDED TWISTED PAIR

UNDER COUNTER UNDERGROUND

VOLT

XFMR TRANSFORMER ZONE ADAPTER MODULE

POWER

P DUPLEX RECEPTACLE

CTR COUNTERTOP RECEPTACLE

₱ QUADRAPLEX RECEPTACLE

DATA OUTLET

TELEPHONE OUTLET

RECESSED FLOOR DUPLEX RECEPTACLE

RECESSED FLOOR DUPLEX RECEPTACLE / DATA OUTLET

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Antonio,

23. THE CONTRACTOR SHALL PROVIDE CIRCUIT DIRECTORIES FOR ALL PANELS THAT INDICATE THE TYPE AND ROOMLOCATION OF THE DEWICES SERVED.

19 A CIRCUIT SHALL BE DEFINED TO INCLUDE ALL OF THE FOLLOWING: CONDUIT, CONDUCTORS, BOXES, WIRING DEVICES, COVERPLATES, WIREWAYS, ETC. MULTIWIRE BRANCH CIRCUITS AS DEFINED BY THE NATIONAL ELECTRICAL CODE SHALL NOT BE USED. A
DEDICATED NEUTRAL CONDUCTOR SHALL BE RUN FOR EACH BRANCH CIRCUIT. UNLESS OTHERWISE

2.1 THE CONTINUED SHALL LAKES, EACH JUNCTIONIFUL BOX COVER PLATE WITH THE GREAT NUMBER OF THE GREATEST CONTINUEL LAKES, EACH STITMS CONDUIT AT THE POINT WHERE IT DUTS THE JUNCTION BOX WITH THE GREAT NUMBER IT CONTINUE, IF THE RACEWAY SYSTEM IS IN AN EXPOSED AREA LAKES, THE INSIDE OF THE JUNCTIONIFUL BOX COVER PLATE ONLY.

CENERAL NOTES

 ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT INTERNATIONAL CODES AND THE REQUIREMENTS STATED IN THE APPLICABLE SECTIONS OF THE NATIONAL FIRE CODES (NFPA STANDARDS) CURRENT AT THE TIME OF CONSTRUCTION. AMENOMENTS TO THESE ODDES AS SET FORTH BY THE AUTHORITY HAVING JURISDICTION SHALL SUPERSEDE THE INTERNATIONAL CODES AND NFPA STAND ISSUED.

INTERRELATION BETWEEN THE DRAWINGS IN THE EVENT OF A CONFLICT BETWEEN A DETAIL AND A FLOOR PLAN. THE LARGER SIZE, CHAINTTY, LEBORT FOR OFFICING SHALL BE REQUIRED. IN THE EVENT OF A COMPLICT BETWEEN WHAT IS SHOWN ON THE FLOOR PLAN AND A KEYED NOTE. THE KEYED NOTE SHALL GOVERN. IN ALL CASES, THE ROMINERS OF RECORD SHALL BET THE INTERPRETED OF THE DOCUMENTS.

THE EXISTENCE AND LOCATION OF UTILITIES, MECHANICAL SYSTEMS, ELECTRICAL SYSTEMS AND OTHER CONSTRUCTION INDICATED AS EXISTING ARE NOT GUARANTEED. BEFORE BEGINNING WORK, INVESTIGATE

AND VERIFY THE EXISTENCE AND LOCATION OF MECHANICAL AND ELECTRICAL SYSTEMS AND OTHER CONSTRUCTION AFFECTING THE WORK

COOPERATE FULLY WITH SEPARATE CONTRACTORS SO WORK ON THOSE CONTRACTS MAY BE CARRIED OUT SMOOTHLY, WITHOUT INTERFERING WITH OR DELAYING WORK UNDER THIS CONTRACT. COORDINATE THE WORK OF THIS CONTRACT WITH WORK PERFORMED UNDER SEPARATE CONTRACTS.

DO NOT INTERRUPT UTILITIES SERVING FACILITIES OCCUPIED BY OWNER OR OTHERS UNLESS PE THE OWNER. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A MINIMUM 72 HOUR NOTIFICA UNLESS OTHERMISE NOTIFIED.

AS RACEWAYS, CONDUCTORS, GROUNDING SYSTEMS, ETC. CAN BE SHOWN, FURNISH AND INSTALL RACEWAYS, CONDUCTORS, ETC. AS REQUIRED FOR A COMPLETE AND FUNCTIONAL, NEC COMPLIANT SYSTEM.

8. THE INSTALLER IS RESPONSIBLE FOR COORDINATING WITH OTHER TRADES. THE INSTALLER SHALL NOT INSTALL OR PARKATE ANY WORK SHOWN UNITS. ALL GUE WORK IS PLLY COORDINATED, FURNISH AND COTHER TRADES AS PART OF THE WORK.

TAKE FIELD MEASUREMENTS AS REQUIRED TO FIT THE WORK PROPERLY. RECHECK MEASUREMENTS BEFORE MOTIVALING DACH PRODUCT, WHERE "EVENTONS OF THE WOOK ARE INCIDENT OF IT TO OTHER PASSICLATION COORDINATE FARRANCIAN SCIENCIAL WITH LOOSINGLATION PROPERS TO AVOID DELAYING THE WORK FARRISH AND INSTALL ADDITIONAL RECEIVANS, CONDUCTORS, ETC. AS REQUIRED TO ACCOMMODITE FIELD CONDITIONS AS PART OF THE WORK.

THE WORK SHALL BE SUPERVISED BY A MASTER ELECTRICIAN TO ASSURE THAT ALL WORK IS INSTALLED IN ACCORDANCE WITH APPLICABLE CODES AND THE CONSTRUCTION DOCUMENTS.

ALCORAINA, WITH APPLICABLE CLOSE WALL THE CURS INCLINED LOCKES PULL BOXES, ETC. ACCESS PARKS SHALL BE 16 CARE PANTABLE STEEL CONSTRUCTION WITH A PANO HANGE DOOR, FLANGE FRAME, WALL SLEFFE AND KNEY LOCK, PHAIRS IN POPOSED, FINENBED TILE DARKES SHALL HAVE THE SEARCH CONSTRUCTED FROM STANKESS STEEL. ACCESS PANELS IN FREE RATED ASSESSMELS SHALL HAVE THE SEARCH RATING AS THE ASSESSMEL'S.

12. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF LIGHTING FIXTURES.

13. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE TO THE PROPER SIDE OF THE DOOR ANY SWITCH, RECEPTACLE OR DEVICE BEING AFFECTED BY ANY CHANGE IN DIRECTION OF DOOR SWINGS AS SHOWN ON THE ARCHITECTURAL FLOOR PLAN.

MECHANICAL EQUIPMENT SIZES ARE AS DESIGNED, BREAKERS, CONDUIT, STARTERS, CONDUCTORS, ETC., SHALL BE ADJUSTED TO THE EQUIPMENT SUBMITTED FOR INSTALLATION ON THIS PROJECT.

REMOTE MOUNTED MOTORS SHALL BE PROVIDED WITH RECEPTACLES AND PLUGS OR DISCONNECT SWITCHES TO BE COMPATIBLE WITH THE CONSTRUCTION TYPE AND THE NEC.

17. PELDWATT (MV), PATRIGE FOR EQUIPMENT MOTOR LOADS, APE AD DESIGNED WITH 60% POWER FACTOR RATING, ASSIMBLET INTER-CONTRACTOR HALL BER RESPONSIBLE FOR INVERSABILITY THE SEX AS PROJUMED, ALL FEEDERS AND PROTECTIVE DEVICES SERVING ANY ITEMS OF EQUIPMENT SUPPLIED WITH POWER FACTOR RATINGS LESS THAN 60% BEFOCIENCY.

18. N. ALL AREAS THE CRHENTL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN THE ELECTRICAL AND MCHANACUL TRACES TO PROVIDE CLEARANCE ABOVE CELING BETWEEN RECESSED LIGHTING FATURES AND THERMAL INSULATION OR DUCTWORK IN ACCORDINGE WITH THE NEC, PARAGE 410-86.

SYMBOLS, ABBREV, & GENERAL NOTES

E100

SYMBOLS

LIGHTING RECESSED 24X48 GRID CEILING RECESSED 24X48 GRID CEILING W/ EMERGENCY

 \square

RECESSED 12X48 GRID CEILING

RECESSED 12X48 GRID CEILING W/ EMERGENCY RECESSED 24X24 GRID CEILING

RECESSED 24X24 GRID CEILING W/ EMERGENCY RECESSED ASSYMETRICAL LINEAR SLOT

RECESSED DOWNLIGHT W/ EMERGENCY ▼ DATA / TELEPHONE OUTLET SUSPENDED LINEAR PENDANT SUSPENDED PENDANT W/ EMERGENCY

ÆF)′ EXHAUST FAN J JUNCTION BOX RECESSED FLOOR JUNCTION BOX

 ∇

WIRES PHASE "HOT" CONDUCTOR

\$D DIGITAL SWITCH S- FAN SWITCH

\$3 THREE WAY SWITCH

\$4 FOUR WAY SWITCH

\$_{OC} OCCUPANCY SENSOR SWITCH

WALL MOUNTED SCONCE

WALL MOUNTED SCONCE W/ EMERGENCY

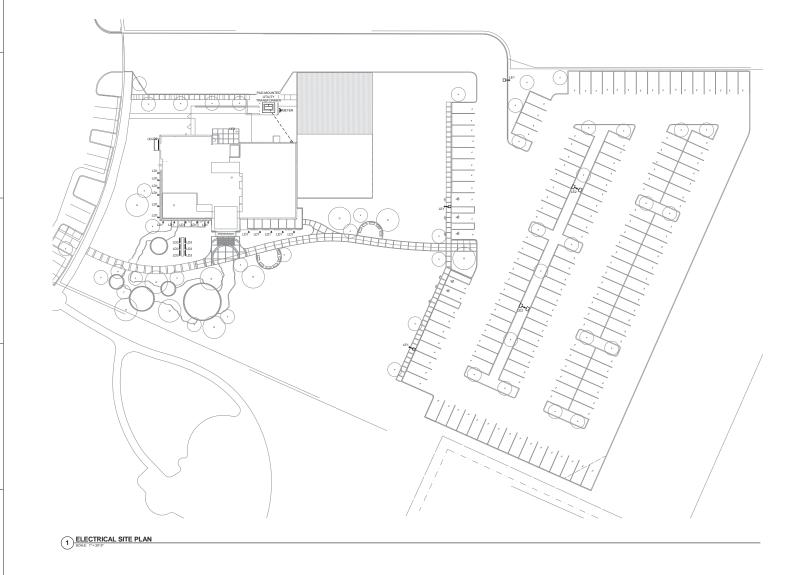
EXIT SIGN W/ ARROW - WALL MOUNTED

CONTROLS

SHEET TITLE ELECTRICAL SITE PLAN

E101

GENERAL NOTES REFER TO SHEET E101 FOR LEGENDS, SYMBOLS, ABBREVIATIONS AND FURTHER GENERAL NOTES.



GENERAL NOTES REFERENCE SHEET E100 FOR LEGENDS, SYMBOLS, ABBREVIATIONS AND FURTHER GENERAL NOTES. REFERENCE SHEET E401 FOR THE LIGHTING FIXTURE SCHEDULE AND RELAY PANEL SCHEDULE.

KEYED NOTES (#) FIELD VERIFY EXACT LENGTH OF FIXTURE TYPE LAS PRIOR TO ORDERING, ORDER LENGTH TO ALLOW FOR NO MORE THAN 3 INCHES OF CLEARANCE ON EITHER SIDE OF EVITURE CHATCH EVIT DIE IN ORGANIZE

CONTROLS

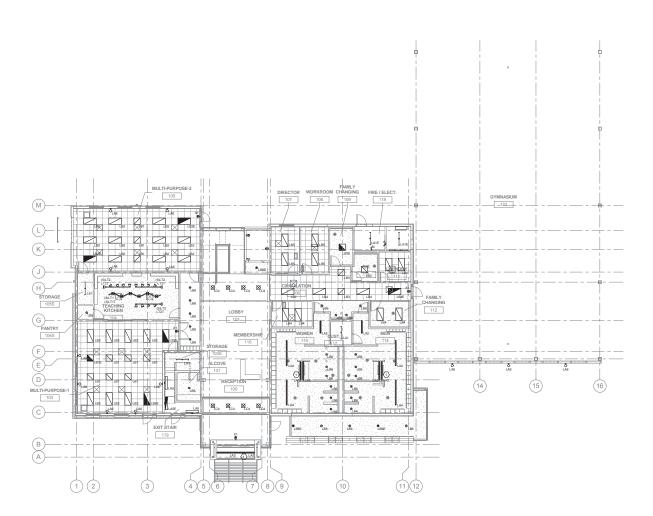
SINGLE POLE SWITCH

DIGITAL SWITCH

CEILING MOLINTED OCCUPANCY SENSOR

SHEET TITLE LEVEL 1 ELECTRICAL LIGHTING RCP

E201



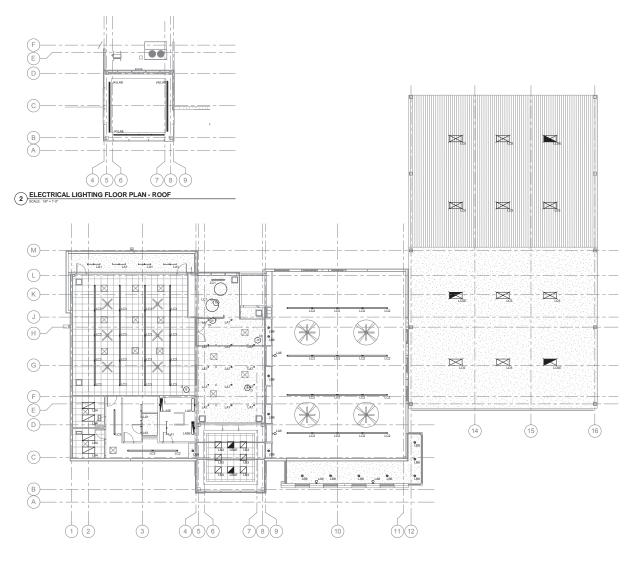
1 ELECTRICAL LIGHTING REFLECTED CEILING PLAN - LEVEL 1

GENERAL NOTES REFERENCE SHEET E100 FOR LEGENDS, SYMBOLS, ABBREVIATIONS AND FURTHER GENERAL NOTES. REFERENCE SHEET E401 FOR THE LIGHTING FIXTURE SCHEDULE AND RELAY PANEL SCHEDULE.

KEYED NOTES (#)

SHEET TITLE LEVEL 2 ELECTRICAL LIGHTING RCP

E202



1) ELECTRICAL LIGHTING REFLECTED CEILING PLAN - LEVEL 2

YMCA

FAMILY

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MIS

- REFERENCE SHEET E100 FOR LEGENDS, SYMBOLS 49BREVIATIONS AND FURTHER GENERAL NOTES.
- THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES PRIOR TO THE INSTALLATION OF ELECTRICAL CONDUIT, PANIELS, RECEPTACLES, FIXTURES, AND EQUIPMENT.

KEYED NOTES (#)

- 1 PROVIDE (2) 3" CONDUITS CONDUITS AS REQUIRED TELEIDATA CABLING, STUBBED UP 1".0" AFF BELOW TELEPHONE DEMARC. REFER TO SITE PLAN FOR CONTINUATION.
- CONTINUATION.

 2 PROVIDE (3) 1-14* CONDUIT STUB-UPS, RUN UP INSIDE WALL
 TO ACCESSIBLE LOCATION ABOVE CEILING IN ROOM #103.

- MECHANICAL CONTRACTOR.
 PROVIDE 120V POWER TO DOWN DRAFT KITCHEN HOOD LOCATED BENEATH BLAND COUNTER.
 PROVIDE 120V POWER TO KITCHEN HOOD TERMINAL BOX.
 PROVIDE NEMA 14-50R RECEPTACLE, PLATE AND CORD FOR LECTRIC RANGE.

- PROVIDE RECEPTACLE BELOW COUNTER FOR DISHWASHER
- DISHWASHER.

 8 REFER TO DETAIL #8/E601 FOR DETAIL OF CONDUIT AND BOXES TO BE EMBEDDED DURING PRE-CASTING OF TILTWALLS.

- PROVIDE (1) -1-12" CONDUCT STUD BY PRISON WALL TO ACCESSED E LOCATION ABOVE CREAM, IN ROOM 910.

 PROVIDE RECEPTALE FILEMENDANTED TO SIDE OF PRISON ALL TO ACCESSED E LOCATION ABOVE CREAM, IN ROOM 910.

 PROVIDE RECEPTALE FILEMENDANTED TO SIDE OF PRISON ALL TO ACCESSED AND ACCESSED ACCESSED AND ACCESSED ACCESSED AND ACCESSED ACCESSED AND ACCESSED ACCESSED AND ACCESSED AND ACCESSED AND ACCESSED ACCESSED ACCESSED AND ACCESSED AND ACCESSED ACCESSEDANT ACCESSED ACCESSEDA
- TO TELEPHONE BOARD DETAIL HIGGSO.

 3 PROVIDE ALL COMULITAN CALLE REQUISED FOR SUMP PAUR. HIGH WATER ALARM SYSTEMS AND ALL OTHER SUNCESS REQUISED FOR HE SUMP PAUR DISCOVERS.

 44 POWER AND DATA DEVICES AT RECEPTIONAST DESK SHALL SECONDATE PAUR SOLVEN BE CHOKECAS UNTIL THE AROUTECT PRIOR TO FOLKHOMEN ON THE CHORNER OF CHARGE TO SECONDATE PAUR SHALL SHALL

- CONDUIT BACK TO FIRE ALARM CONTROL PANEL IN ELECTRICAL ROOM #118. PROVIDE EACH EMPTY CONDUIT WITH A PULL STRING.
- WITH A PULL STRING.

 16 PROVIDE POWER FOR CAR LIGHT AND ALARM CIRCUIT W/
 GFCI PROTECTION.

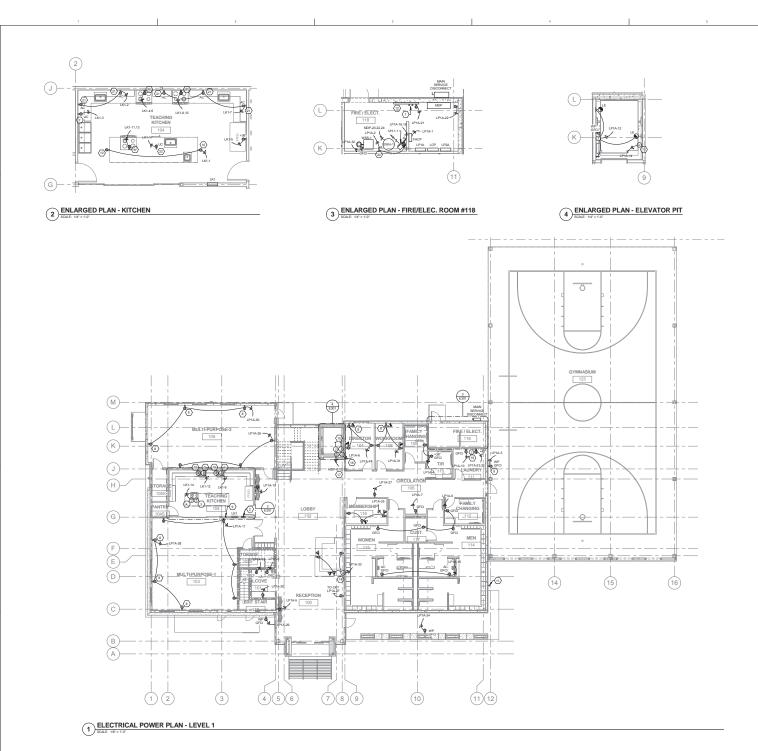
 17 PROVIDE POWER TO ELEVATOR CONTROLLER LOCATED IN
- WALL.

 18 INDOOR MINI SPLIT UNIT TO RECEIVE POWER FROM THE CORRESPONDING OUTDOOR CONDENSING UNIT VIA THE MANUFACTURER'S CABLE ASSEMBLY.

San Antonio,

LEVEL 1 ELECTRICAL POWER PLAN

SHEET NO. E301

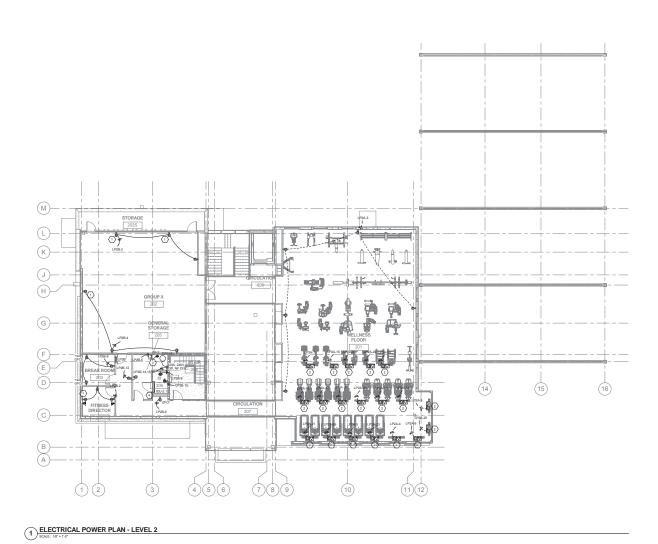


GENERAL NOTES REFERENCE SHEET E101 FOR LEGENDS, SYMBOLS ABBREVIATIONS AND FURTHER GENERAL NOTES.

KEYED NOTES (8)

SHEET NO.

E302



GENERAL NOTES REFERENCE SHEET E101 FOR LEGENDS, SYMBOLS, ABBREVIATIONS AND FURTHER GENERAL NOTES. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES PRIOR TO THE INSTALLATION OF ELECTRICAL CONDUIT, PANELS, RECEPTACLES, FIXTURES, AND EQUIPMENT.

KEYED NOTES (#)

1 PROVIDE MOTOR PARTED TOOGLE DISCONNECT SWITCH IN WEATHERPROF ENGLOSIER.

PROVIDE TO COUNTIT WITH HULL STREND BELOW PLOOR FROM MAKE PROOF TO BOOSTER PAY MO IN FOOT, FOR COUNTIT WITH HULL STREND BELOW PLOOD.

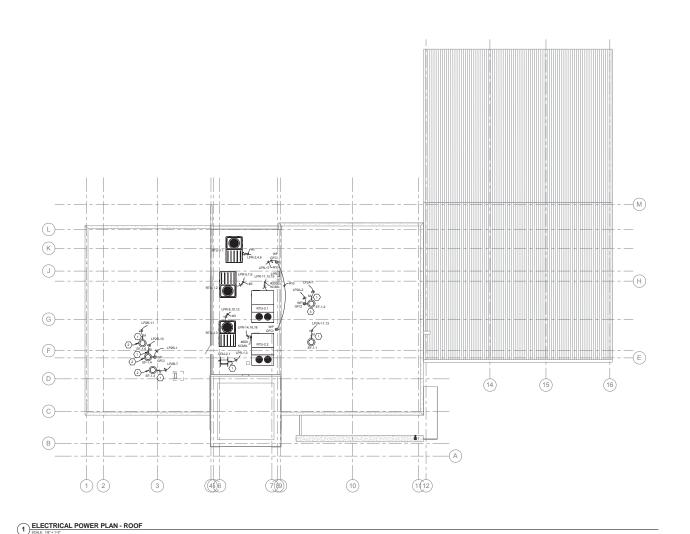
PROVIDE TO CONDUIT WITH HULL STREND BELOW PLOOR FROM DRIVER TO DRIVER WAS TOSTER PAY MO PLOOR FROM DRIVER TO DRIVER WAS TOORS FAY HOW DO FOR CONTROL WIRING TO INTERLOCK BOOSTER FAY AND BETTER.



MISSION FAMILY YMCA

ROOF ELECTRICAL

E303



THREE PHASE WYE ELECTRICAL FEEDER SCHEDULE - COPPER					
CIRCUIT	SETS	CONDUIT	CONDUCTORS		
15	1	3/4"	(4) #12 & (1) #14 GROUND		
20	1	3/4"	(4) #12 & (1) #12 GROUND		
25	1	3/4"	(4) #12 & (1) #10 GROUND		
30	1	3/4"	(4) #10 & (1) #10 GROUND		
35	1	3/4"	(4) #10 & (1) #10 GROUND		
40	1	3/4"	(4) #8 & (1) #10 GROUND		
45	1	3/4"	(4) #8 & (1) #10 GROUND		
50	1	3/4"	(4) #8 & (1) #10 GROUND		
60	1	1"	(4) #6 & (1) #10 GROUND		
70	1	1 1/4"	(4) #4 & (1) #8 GROUND		
80	1	1.1/4"	(4) #4 & (1) #8 GROUND		
90	1	1 1/4"	(4) #3 & (1) #8 GROUND		
100	1	1 1/4"	(4) #3 & (1) #6 GROUND		
110	1	1 1/2"	(4) #2 & (1) #6 GROUND		
125	1	2*	(4) #1 & (1) #6 GROUND		
150	1	2*	(4) #1/0 & (1) #6 GROUND		
175	1	2*	(4) #2/0 & (1) #6 GROUND		
200	1	2*	(4) #3/0 & (1) #6 GROUND		
225	1	2 1/2"	(4) #4/0 & (1) #4 GROUND		
250	1	2 1/2"	(4) #250 kcmil & (1) #4 GROUND		
300	1	3"	(4) #350 kcmil & (1) #4 GROUND		
350	1	3"	(4) #500 kcmil & (1) #3 GROUND		
400	1	4"	(4) #600 kcmil & (1) #3 GROUND		
450	2	2 1/2"	(4) #4/0 komil & (1) #2 GROUND		
500	2	2 1/2"	(4) #250 kcmil & (1) #2 GROUND		
600	2	3*	(4) #350 kcmil & (1) #1 GROUND		
700	2	3*	(4) #500 kcmil & (1) #1/0 GROUND		
800	2	4"	(4) #600 kcmil & (1) #1/0 GROUND		
1000	3	3"	(4) #400 kcmil & (1) #2/0 GROUND		
1200	3	4"	(4) #800 kcmil & (1) #3/0 GROUND		
1600	4	4"	(4) #800 kcmil & (1) #4/0 GROUNE		

BREAKER	SETS	CONDUIT	CONDUCTORS		
15	1	3.4*	(3) #12 & (1) #14 GROUND		
20	1	3.4*	(3) #12 & (1) #12 GROUND		
25	1	3/4"	(3) #12 & (1) #10 GROUND		
30	1	3.4"	(3) #10 & (1) #10 GROUND		
35	1	3.4*	(3) #10 & (1) #10 GROUND		
40	1	3.4*	(3) #8 & (1) #10 GROUND		
45	1	3.4*	(3) #8 & (1) #10 GROUND		
50	1	3.4*	(3) #8 & (1) #10 GROUND		
60	1	1*	(3) #6 & (1) #10 GROUND		
70	1	1*	(3) #4 & (1) #8 GROUND		
80	1	1"	(3) #4 & (1) #8 GROUND		
90	1	1 1/4"	(3) #3 & (1) #8 GROUND		
100	1	1 1/4"	(3) #3 & (1) #6 GROUND		
110	1	1 1/4"	(3) #2 & (1) #6 GROUND		
125	1	1 1/4"	(3) #1 & (1) #6 GROUND		
150	1	1 1/4"	(3) #1/0 & (1) #6 GROUND		
175	1	2"	(3) #2/0 & (1) #6 GROUND		
200	1	2*	(3) #3/0 & (1) #6 GROUND		
225	1	2*	(3) #4/0 & (1) #4 GROUND		
250	1	2 1/2"	(3) #250 komil & (1) #4 GROUND		
300	1	2 1/2"	(3) #350 komil & (1) #4 GROUND		
350	1	3"	(3) #500 komil & (1) #3 GROUND		
400	1	3*	(3) #800 komil & (1) #3 GROUND		
450	2	2*	(3) #4/0 kcmil & (1) #2 GROUND		
500	2	2 1/2"	(3) #250 komil & (1) #2 GROUND		
600	2	2 1/2"	(3) #350 komil & (1) #1 GROUND		
700	2	3*	(3) #500 komil & (1) #1/0 GROUND		
800	2	3*	(3) #600 komil & (1) #1/0 GROUND		
1000	3	2 1/2"	(3) #400 komil & (1) #2/0 GROUND		
1200	3	3*	(3) #600 komil & (1) #3/0 GROUND		
1600	4	3"	(3) #600 komil & (1) #4/0 GROUND		

THREE PHASE DELTA ELECTRICAL FEEDER SCHEDULE - COPPER

VOLTAGE D	ROP		
CONDUCTOR	CONDUIT	120V / 20A MAX DISTANCE FROM PANEL TO LOAD	277V / 20A MAX DISTANCE FROM PANEL TO LOAD
(2) #12 and (1) #12 GRD	3/4" C	50 ft	130 ft
(2) #10 and (1) #10 GRD	3/4° C	95 ft	220 ft
(2) #8 and (1) #8 GRD	3/4° C	140 ft	340 ft
(2) #8 and (1) #8 GRD	3/4" C	230 ft	530 ft
(2) #4 and (1) #4 GRD	1°C	350 ft	820 ft
(2) #2 and (1) #2 GRD	1 1/4° C	540 ft	1000 ft
(2) #1 and (1) #1 GRD	1 1/2° C	660 ft	1200 ft
(2) 1/0 and (1) 1/0 GRD	2" C	850 ft	1500 ft
(2) 2/0 and			

SINGLE PHASE ELECTRICAL FEEDER SCHEDULE - COPPER				
Circuit Breaker	Sets	Conduit	Conductors	
15	1	3/4"	(2) #12 & (1) #14 Ground	
20	1	3/4"	(2) #12 & (1) #12 Ground	
25	1	3/4"	(2) #12 & (1) #10 Ground	
30	1	3/4"	(2) #10 & (1) #10 Ground	
35	1	3/4"	(2) #10 & (1) #10 Ground	
40	1	3/4"	(2) #8 & (1) #10 Ground	
45	1	3/4"	(2) #8 & (1) #10 Ground	
50	1	3/4"	(2) #8 & (1) #10 Ground	
60	1	3/4"	(2) #6 & (1) #10 Ground	
70	1	1"	(2) #4 & (1) #8 Ground	
80	1	1"	(2) #4 & (1) #8 Ground	

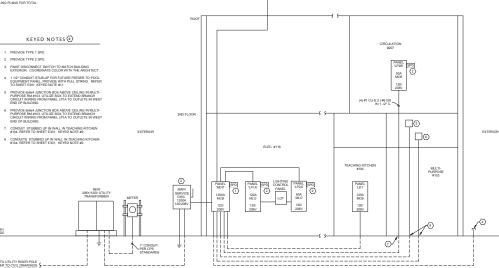
1. CONTRACTOR SHALL SUBMIT PROPOSED DEVIATIONS FROM THIS SCHEDULE
FOR PRIOR APPROVAL.
2. PER NEC 2014 SECTION 250122.122(B) - WHERE UNGROUNDED CONDUCTORS
ARE INCREASED IN SIZE. EQUIPMENT GROUNDING CONDUCTORS, WHERE
INSTALLED. SHALL BE INCREASED IN SIZE PROPORTIONATELY ACCORDING TO

208/120 VOLT	THREE PHAS	E	4-WRE	
TYPE OF OCCUPAN	ICY: FITNESS CLUB		AREA: 15,678 SQ FT	
Description	Calculations	VA	NEC 2014 CODE	
LIGHTING				
Interior Lighting	2 W/SQ FT x 15,678 SQ FT	31356 VA	220.12	
Exterior Lighting		5586 VA	220.14 (A)	_
POWER				
Receptacles	(10.000) + (10.340 x 50%)	15170 VA	220.44	_
Washer / Dryer		9000 VA	220.14 (A)	_
Miscellaneous		500 VA	220.14 (A)	_
Elevator		44100 VA	620.14	
Treadmills		11520 VA	220.14 (A)	_
Kitchen Appliances		32880 VA	220.14 (A)	
Computers		4800 VA	220.14 (A)	_
Future Pool Equipment		28821 VA	220.14 (A)	
HVAC				_
Cooling		0 VA	220.60	_
Heating		182591 VA	220.60	
25% Largest Motor	1176 VA x 25%	294 VA	220.18 (A)	_
Motor		3836 VA	220.18 (A)	_
HVAC		2704 VA	220.12 (A)	
PLUMBING				
Water Heater		10500 VA	422.13	_
			TOTAL KVA:	_

TOTAL KVA: 383.6 KVA
NC TOTAL: 383.6 KVA
NC TOTAL AMPS: 1065 A
SERVICE SIZE: 1200 A
SPARE AMPACITY: 135 A
PERCENT SPARE AMPACITY: 11.3 %

NOTES

1. SERVIN THE FINISH WITH ARCHITECT PRIOR TO ORDERING.
1. SERVIN THE FINISH WITH ARCHITECT PRIOR TO ORDERING.
2. SORGER OWNELL GOID CAMPER ACCESSORIES AS REQUIRED FOR MUNITARIO IN DOWNELL CELING REFER TO ELECTRON. LIGHT ROSE ELECTRON CELING PLANS FOR EXACT LOCATIONS.
2. SORGER ALL MEMORY AND ACCESSORIES AS REQUIRED TO SECRED 2° - PER FIXTURE. FOR ELECTRON MUNITARY CELING ALL MEMORY AND ACCESSORIES AS REQUIRED TO SECRED 2° - PER FIXTURE. FOR ELECTRON MUNITARY CELING ACCESSORIES AS RECORD ACCESSO



600A MCB 120/ 208/

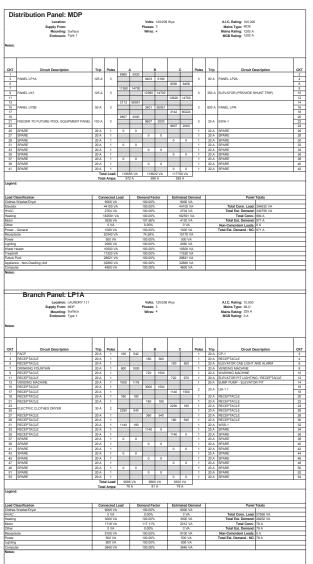
1 ELECTRICAL RISER DIAGRAM

OX Marmoni Marmoni V

Antonio,

ELECTRICAL RISER DIAGRAM

E401



Branch Panel: LP2A Locatine: LUNGOY111 Voils: 10008 Wye ALC Rating: 10,000 Boply From: MCP Please: 3 Maint Type: M.D. Mounting: Entrail Wire: 4 Maint Rating: 10,00 MCR Rating: 10,00 MCR Rating: 10,00 MCR Rating: 10,00															
Mountain		Location: TEACHING K	TCHEN 10	4					Wye						
Control Cont		Mounting: Recessed											Mains Rating: 225 A		
Control Part		Enclosure: Type 1											MCB Rating: 125 A		
Control Page															
Contail Description Top Poles A B C Poles Top Croat Description		DE OTABILEOS OTES: DANS DO ADO ENO OS	ne 411 o	(DOLLIT)	DE LUE	20 181 01			05.050	u Turne					
		DE STANLESS STEELT AVELDOARD ENGESSO	IL ALL C		DIGLANCE	13 111 7	DALL LIK	- GIPLL	DE GI C						
3		Circuit Description	Trip			A	E		_	_		Trip	Circuit D	escription	CH
					360	360	1000	4100		_	_	-			- 1
7					_	_	1000	4100	1500	4160	2	50 A	RANGE		1 6
2	7	RECEPTACLE		1	540	4160									8
13	9	RANGE HOOD	20 A	1			1800	4160			2	50 A	RANGE		10
10		DANCE	CO. 4						4160	1800					12
20 MARCH 20 A 1 0 0 0 0 0 1 20 A SAME		1 '		_	4160	1800								TEM	14
19							1260	0							16
22									1000	0					18
20 20 20 20 20 20 20 20					0	0		-							20
Trial Large 1180 Vit 1280 V		SPARE	20 A				0	0	0	0		20 A	SPARE		2 2
	_	p			1136	0 VA	1238	0 VA			<u> </u>	-24	1		
Main Part															
Mail: Mail	geno	t:													
Description	ad C	lassification	Cor	inected	Load	Der	mand Fa	ctor	Estin	nated De	mand		Panel	Totals	
Page															
ST Part Pa															
Total Ex. Demond 10 A			_				100.00%						Total Est. Demand:	36380 VA	
	pēan	ce - Non-Dwelling Unit													
			-	32880 V	A.					32880 VA	1		Total Conn.:	101 A	
### Branch Panel: LP2A Leadine: LUARDY 11 Bugs / From MDP From MDP Panel: 2 Bed Panel: 1 Bugs / From MDP Panel: 2 Bugs / From MDP Panel: 3 Bugs / From MDP Panel: 4 Bugs / From MDP			=	32860 V	Α		100.00%		-	32860 VA			Total Conn.: Total Est. Demand:	101 A 101 A	
CFT	otes:		E	32860 V	Α		100.00%			32860 V			Total Conn.: Total Est. Demand: Non-Coincident Loads:	101 A 101 A 0 A	
1		Location: LAUNDRY 11 Supply From: MDP Mounting: Surface		32860 V	4		Volts: Phases:	3		32860 VA			Total Conv.: Total Est. Demand: Non-Coincident Loads: Total Est. Demand - NC. ALC. Rating: 10,000 Mains Type: M.O. Mains Rating: 100	101 A 101 A 0 A	
3	otes:	Location: LAUNDRY 11 Supply From: MDP Mounting: Sortice Enclosure: Type 1					Volts: Phases: Wires:	3 4	Wye				Total Conv. Total Est. Demand- Non-Coincident Loads: Total Est. Demand - NC. ALC. Rating: 10.000 Mains Type: M.O. Michael Rating: 10.4 MCB Rating: 10.4	101 A 101 A 0 A 101 A	
\$ PRINSES EQUIPMENT 20.A 1 1 1 1 1 2 1 1 2 1 1	etes:	Location: LALINDRY 11 Supply From: MCP Mounting: Surface Enclosure: Type 1 Circuit Description	Trip	Poles		A.	Volts: Phases: Wires:	3 4	Wye		Poles		Total Conv. Total East. Demand - Non-Coincident Loads: Total Est. Demand - NC. Total Est. Demand - NC. ALC. Rating: 10.00 Mains Type: Mc. Mins Rating: 00.A MCB Rating: 0.A	101 A 101 A 0 A 101 A	СК
7 PRINSES GOUPMENT 20.A 1 300 300 3 1 20.A 1 20.A PRINSES GOUPMENT 1 20.A 1 300 300 300 300 1 1 20.A PRINSES GOUPMENT 1 20.A 1 300 300 300 300 1 1 20.A PRINSES GOUPMENT 1 20.A 1 300	otes:	Location: LAUNDRY 11 Supply From: MCP Mounting: Graden Exclosure: Type 1 Circuit Description EF-1.2	Trip 20 A	Poles 1		A.	Volts: Phases: Wires:	3 4	Wye		Poles 1	20 A	Total Conv. Total Ext. Demand - NO: Non-Colincident Loads: Total Est. Demand - NC: Total Est. Demand - NC: ALC. Rating: 10.000 Mains Type: MLO Mains Rating: 0.A MCB Rating: 0.A	101 A 101 A 0 A 101 A	- 2
PRINCES EQUIPMENT 20 A 1	otes:	Leasible LAUNCRY 11 Supply From: May Moraning: Surface Enclosure: Type 1 Circuit Description EF-1.2 RECEPTALE	Trip 20 A 20 A	Poles 1		A.	Volts: Phases: Wires:	3 4	Wye		Poles 1	20 A	Total Conv. Total Ext. Demand: Non-Confodient Loads: Total Ext. Demand: NC. ALC. Rating: 10.000 Mains Type: NC. Mains Rating: 0.0 Mod Rating: 0.4 RECEPTACE: RECEPT	101 A 101 A 0 A 101 A	2
30 0-1 1 20 0 1 20 0 1 20 0 1 20 0 1 20 0 0 1 20 0 0 0 0 0 0 0 0	0KT 1 3 5 7	Location: UNIDOPY 11 Supply Plant (ID) Plant	Trip 20 A 20 A 20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100	A 180	Volts: Phases: Wires:	3 4	Wye		Poles 1	20 A 20 A 20 A 20 A	Total Conv. Total Ext. Demand: Non-Colindant Loads: Total Est. Demand: Non-Colindant Loads: Total Est. Demand: Non-Colindant Loads: Total Est. Demand: Non-Colindant Loads: Non-C	101 A 101 A 0 A 101 A	2 4 6 8
	0KT 1 3 5 7 9	Location: UNIDOPY 11 Supply Plant (ID) Plant	Trip 20 A 20 A 20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100	A 180	Volts: Phases: Wires:	3 4	Wye	360	Poles 1 1 1 1 1 1 1	20 A 20 A 20 A 20 A 20 A	Total Conv. Total Ext. Demand: Non-Confident Loads: Total Ext. Demand: NC. ALC. Rating: 10.000 Mains Type: Mo. Mains Rating: 10.0 Mains Cating: 10	101 A 101 A 0 A 101 A	4 6 8
77 PRINSS SCUPMENT 20 A 1 0 0 0 0 1 20 A PRINSS SCUPMENT	0tes:	Leadies LUDGOV 11 Belgif Prox LID* Belgif Prox LID* Mounting Suface Enclosure: Type 1 Circuit Description ES-13 BECEPTACE ProxESS COUPMENT* FINESS COUPMENT*	Trip_ 20 A 20 A 20 A 20 A 20 A	Poles 1 1 1 1 1 1 1	100	A 180	Volts: Phases: Wires:	3 4	Wye	360	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 A 20 A 20 A 20 A 20 A 20 A	Total Com. Total Stat. Non-Colinidari Ladas. Total Est. Damand - NC. Total Est. Damand - NC. ALC. Rating: 10.00 ALC. Rating: 10.00 Mains Type: NC. Mains Rating: 00.0 A MCB Rating: 0.0 A Circuit Of Mains Rating: 0.0 A RECEPTACE: FITNESS EQUIPMENT FITNESS EQU	101 A 101 A 0 A 101 A	2 4 6 8 9
9 PITROSS GLUMBORT 20 A 1 300 300	0KT 1 3 5 7 9 11 13	Location LANDORY 17 Bapply Press LICP Movelling Strice Enchance: Type 1 Enchance:	Trip 20 A	Poles 1 1 1 1 1 1 1 2	100	A 180	Volts: Phases: Wires:	3 4 4	Wye	360	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 A 20 A 20 A 20 A 20 A 20 A 20 A	Total Conv. Total Ext. Demand . Non-Controllent Loads. Total Ext. Demand . Non-Controllent Loads. Total Ext. Demand . No. A.L.C. Rating: 10,000 Mains Type: Mc.O. Mains Rating: 10,00 McCEPTACLE: Mc.O. Mc.O. McCEPTACLE: Mc.O. McCEPTACLE: Mc.O. McCEPTACLE: Mc.O. Mc.O. McCEPTACLE: Mc.O. Mc.O. Mc.O. McCEPTACLE: Mc.O. Mc.O. McCEPTACLE: Mc.O. Mc.O. McCEPTACLE: Mc.O. Mc.O	101 A 101 A 0 A 101 A	4 6 8 9
22 PFMSS EQUIMENT 20.A 1 1 10 0 0 1 1 2A 194982 PFMSS EQUIMENT 20.A 1 20 0 0 0 1 2A 194982 PFMSS EQUIMENT 20.A 1 20 0 0 0 0 1 2A 194982 PFMSS EQUIMENT 20.A 1 20 0 0 0 0 1 2A 194982 PFMSS EQUIMENT 20.A 1 20 0 0 0 0 1 2A 194982 PFMSS EQUIMENT 20.A 1 0 0 0 0 0 1 2A 194982 PFMSS 20.A 1 0 0 0 0 0 1 2A 194982 PFMSS 20.A 1 0 0 0 0 0 1 2A 194982 PFMSS 20.A 1 0 0 0 0 0 0 1 2A 194982 PFMSS 20.A 1 0 0 0 0 0 0 1 2A 194982 PFMSS 20.A 1 0 0 0 0 0 0 0 1 2A 194982 PFMSS 20.A 1 0 0 0 0 0 0 0 1 2A 194982 PFMSS 20.A 1 0 0 0 0 0 0 0 1 2A 194982 PFMSS 20.A 1 0 0 0 0 0 0 0 0 1 2A 194982 PFMSS 20.A 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	XT 1 3 5 7 9 11 13 15	Locations LANDORY 11 Bioply From LCD Mounting Surface Endeaver, Type 1 EF-12 Crisial Description EF-12 FF-13 FF-13 FF-14 FF-17 FF-15 FF-16 FF-17 FF-16 FF-17 FF-17 FF-18 FF-17 FF-18 FF-18 FF-17 FF-18 FF-	Trip 20 A A A 20 A A A 20 A	Poles 1 1 1 1 1 1 2 1 1	100	A 180	Volts: Phases: Wires:	3 4 4	1920 1176	360	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Total Conn. Total Ext. Demand 1 Non-Circulate Locking Non-Circulat	101 A 101 A 0 A 101 A	2 4 6 8 9 1 1 5
22 PRINSS EQUIPMENT 20 A 1 30 100 1 20 A 1 20 A 1 30 100 1 20 A 1 20 A 1 30 100 1 20 A 1 20 A 1 30 100 1 20 A 2	XT 1 3 5 7 9 11 13 15 17	Location: LANGENY 11 Steply From: LICE Mounting: Surface Endeature: Type 1 GEOGRAPHICA GEOGRAPHICA FERRISE COLUMNATY	Trip 20 A 20	Poles 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1	380	190 1920	Volts: Phases: Wires:	3 4 4	1920 1176	360	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Total Conc. Total Est Demand: Non-Circlett Loss. Total Est Commend: Non-Circlett Conc. No	101 A 101 A 0 A 101 A	2 4 6 8 9 1 5 5
25 FINES EQUIPMENT 20 A 1 300 900 20 1 3 20 A FINES EQUIPMENT 27 SPARE 20 A 1 0 0 0 1 1 20 A SPARE 20 A 1 0 0 0 1 1 20 A SPARE 20 A 1 0 0 0 1 1 20 A SPARE 20 A 1 0 0 0 1 1 20 A SPARE 20 A 1 0 0 0 1 1 20 A SPARE 20 A 1 0 0 0 1 1 20 A SPARE 20 A 1 0 0 0 1 1 20 A SPARE 20 A 1 0 0 0 0 1 1 20 A SPARE 20 A 1 0 0 0 0 1 1 20 A SPARE 20 A 1 0 0 0 0 1 1 20 A SPARE 20 A 1 0 0 0 0 1 1 20 A SPARE 20 A 1 0 0 0 0 1 1 20 A SPARE 20 A 1 0 0 0 0 1 20 A SPARE 20 A 1 0 0 0 1 1 20 A SPARE 20 A	XT 1 3 5 7 9 111 13 15 17 19	Location LANDORY 11 Bloghy From LICE Mounting Strice Enclosure: Type 1 Grant Description GENERAL CONFIDENT FINESS COUPMENT FINESS COUPMENT FINESS COUPMENT FINESS COUPMENT FINESS COUPMENT FINESS COUPMENT	Trip 20 A 20	Poles 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	380	190 1920	Volts: Phases: Wires:	3 4 1920 360	1920 1176	360	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	TOTAL Cons. TOTAL CONS. TOTAL EXCHANGES LOSS TOTAL	101 A 101 A 0 A 101 A	2 4 6 8 9 1 1 5 9
72 SPARE 25 A 1 0 0 0 1 1 25 A SPARE 25 A 1 1 0 0 0 1 1 25 A SPARE 25 A 1 1 0 0 0 1 1 25 A SPARE 25 A 1 1 0 0 0 0 1 1 25 A SPARE 25 A 1 1 0 0 0 0 1 1 25 A SPARE 25 A 1 1 0 0 0 0 1 1 25 A SPARE 25 A 1 1 0 0 0 0 0 1 1 25 A SPARE 25 A 1 1 0 0 0 0 0 1 1 25 A SPARE 25 A 1 1 0 0 0 0 0 1 1 25 A SPARE 25 A 1 1 0 0 0 0 0 1 1 25 A SPARE 25 A 1 1 0 0 0 0 0 1 1 25 A SPARE 25 A 1 1 0 0 0 0 0 1 1 25 A SPARE 25 A 1 0 0 0 0 0 0 1 1 25 A SPARE 25 A 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	XT 1 3 5 7 9 111 13 15 17 19 21	Location LANDON 11 Biophy From LCP Mounting Surface Endeave: Type 1 En 12 Cross Description EF-12 Cross Description EF-12 RECEPTAGE CONFIDENT FINNESS COUPMENT FINNESS COUPMENT FINNESS COUPMENT FINNESS COUPMENT	Trip 20 A 20	Poles 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1	380	190 1920	Volts: Phases: Wires:	3 4 1920 360	1920 1178	360 360 360	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Total Con. Total Extinues Total Exti	101 A 101 A 0 A 101 A	2 4 4 6 8 8 9 1 1 5 5 5 5 2 2 2 2 2
20 9AME 20 A 1 0 0 1 2A 9AME	XT 1 3 5 7 9 111 13 15 17 19 221 223	Location: LANGENY 11 Steply From: LICE Mounting: Surface Scientists: Type 1 EFFS TO CHAIR Description EFFS TO CHAIR DESCRIPTION FOR THE SUMMENT FOR THE SUM	Trig 20 A 20	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100 360 0	1920 1920 360	Volts: Phases: Wires:	3 4 1920 360	1920 1178	360 360 360	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Total Conn. Total Extension To	101 A 101 A 0 A 101 A	2 4 4 6 8 8 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
31 SPARE 20.A 1 0 0 1 1 20.A SPARE 33 SPARE 20.A 1 0 0 0 1 1 20.A SPARE 5 5 SPARE 20.A 1 0 0 0 1 20.A SPARE 5 SPARE 5 5 SPARE 20.A 1 0 0 0 1 20.A SPARE 5 SPAR	DKT 1 3 5 7 9 11 13 15 17 19 19 23 25	Location LANDERY 11 Bayely From LCD Mounting Surface Exclusive: Type 1 EF-12 Circuit Description EF-13 FINESS COUNTERY FINES	Trip 201 A 202 A 202 A 203 A 204 A 205 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100 360 0	1920 1920 360	Volts: Vo	3 4 1920 360 0	1920 1178	360 360 360	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Total Con. Total Ext. Demand - No. Total Ext. Demand - No. A.C. Rading - 10.00 Makes Type - M.O. MCG Rading - 0.00 Makes Type - M.O. MCG Rading - 0.0 MCGCPTACLE MCG Rading - 0.0 MCGCPTACLE MCG Rading - 0.0 MCGCPTACLE MCG	101 A 101 A 0 A 101 A	2 4 4 6 8 8 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
33 SPARE 20 A 1 0 0 1 20 A SPARE 35 SPARE 20 A 1 0 0 0 1 20 A SPARE	XT 1 3 5 7 9 111 13 15 17 19 21 22 23 22 5 27	Location LANGENT II Stoply From LICE Mounting Surface Endeaute, Type II Endeaute, Type I	Trip 20 A A 20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100 360 0	1920 1920 360	Volts: Vo	3 4 1920 360 0	1920 1920 1920	360 360 360	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Total Conn. Total Ext. Design 51 (2015) AALE, Rading 15 (2015) AALE, Rading	101 A 101 A 0 A 101 A	2 4 4 6 8 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	XT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29	Location LADGEY 11 Bapply From LCD Mounting Surface Exclusive: Type 1 EF-12 Circuit Description EF-12 FFRESS COUNTRICT FFRE	Trip 20 A A 20 A	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	360 0 360 360	1920 390 390	Volts: Vo	3 4 1920 360 0	1920 1920 1920	360 360 360	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Total Con. Total Edit. Consort Total Edit. Con	101 A 101 A 0 A 101 A	2 4 6 8 8 9 1 1 5 5 9 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3
	5 7 9 111 13 15 17 19 21 23 25 27 29 31 33	Location LANGEN 11 Steply From LCD* Mounting Surface Enclosure, Type 1 E-1.2 Circuit Description EF-1.2 Circuit Description EF-1.3 PRINTS COUPMENT FF-1.5 PRINTS COUPMENT	Trig 20 A 20	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	360 0 360 360	1920 390 390	Volts: Phases: Wires: 9900 9900 9900 9900 9900 9900 9900 99	380 380 0	1920 1920 1920	360 360 360	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Total Con. Total Ed. Conward - NC. Total Ed. Conward - NC. Total Ed. Conward - NC. ALC. Rading - 10,000 Mans Type - NC. MCB Rading - 0,000 MCB RADING - NC. MCB RADING - 0,000 MCB RADING - NC. MCB RADING - 0,000 MCB RADING	101 A 101 A 0 A 101 A	2 4 4 5 5 5 5 5 2 2 2 2 2 2 2 3 3 3 3 3 3 3 3
37 SPARE 20A 1 0 0 1 20A SPARE 20A 1 0 0 1 20A SPARE	DKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 36	Localizer LANGERY 11 Bapely From LICE Bookings Surface Endeauer Type 1 Creat Description ENCOMPACE FORESE COUNTRICT FORES COUNTRICT FORES COUNTRICT FORES COUNTRICT FORES COUNTRICT F	Trip 20 A 20	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	360 0 360 360	1920 1920 380 1920	Volts: Phases: Wires: 9900 9900 9900 9900 9900 9900 9900 99	380 380 0	1920 1920 1920 0	360 360 0	Poles 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A	Total Conn. Total Ext. Demond - NC. ALC. Basing- 10,000 Mains Taging - 10,000 Main	101 A 101 A 0 A 101 A	2 4 6

Total Conn. Load: 18556 VA
Total Est. Demand: 18850 VA
Total Est. Demand: 52 A
Non-Coincident Loads: 0 A
Total Est. Demand: 52 A
Total Est. Demand: 52 A

	Supply From: MDP Mounting: Recessed Enclosure: Type 1	OM 203				Volts: Phases: Wires:		Wye				A.L.C. Rating: 10,000 Mains Type: MCB Mains Rating: 100 A MCB Rating: 50 A		
Notes:														
														_
CKT	Circuit Description	Trip	Poles		A		В	-		Poles	Trip	Circuit De	scription	
1	RECEPTACLE	20 A	1	180	1140			_	_	1	20 A	RECEPTACLE RECEPTACLE		
3 5	RECEPTACLE CP-2	20 A	1 1	_		540	540	542	800	1	20 A	RECEPTACLE		
7	FF-13	20 A	1	100	360		_	542	800	1	20 A	IT ROOM RECEPTACLE		
9	RECEPTACLE	20 A	1	100	360	540	100	-	_	1	20 A	EF-1.4		
11	FF-1 6	20 A	1		_	540	100	100	360	1	20 A	RECEPTACLE		_
13	SPARE	20 A	1	0	1500		_	100	360	-	20 A	RECEPTACLE		_
15	IT ROOM RECEPTACLE	20 A	1	Ü	1300	360	1500	_	_	3	20 A	EWH-2		
17	SPARE SPARE	20 A	1		-	360	1500	0	1500	,	20 A	EWIN-2		
19	SPARE	20 A	1	0	0	_	_	-	1500	1	20 A	SPARE		_
21	SPARE	20 A	1	Ŭ	-	0	0	_	_	1	20 A	SPARE		_
23	SPARE	20 A	1			-	-	0	0	1	20 A	SPARE		_
25	SPARE	20 A	1	0	0					1	20 A	SPARE		_
27	SPARE	20 A	1			0	0			1	20 A	SPARE		_
29	SPARE	20 A	1					0	0	1	20 A	SPARE		_
31	SPARE	20 A	1	0	0					1	20 A	SPARE		_
33	SPARE	20 A	1			0	0			1	20 A	SPARE		
35	SPARE	20 A	1					0	0	1	20 A	SPARE		_
37	SPARE	20 A	1	0	0					1	20 A	SPARE		
39	SPARE	20 A	1			0	0			1	20 A	SPARE		_
41	SPARE	20 A	1					0	0	1	20 A	SPARE		
			al Load:		0 VA		0 VA	330	2 VA					
		Tota	l Amps:	2	7 A	31) A	2	A					
Legeno	d:													
Load C	Classification	Con	nected I	Load	De	mand Fa	ctor	Estir	nated De	mand		Panel 1	otals	_
HVAC			0 VA			0.00%			0 VA					_
Viotor			842 VA			116.09%			978 VA			Total Conn. Load:		
	acle		3860 VA			100.00%	_		3860 VA			Total Est. Demand:		_
Power			0 VA			0.00%			0 VA			Total Conn.:		_
Water H		-	4500 VA		_	100.00%		-	4500 VA			Total Est. Demand:		
Compu	der	_	960 VA			100.00%	_		960 VA			Non-Coincident Loads:		
Corrigio					1							Total Est. Demand - NC:	29 A	

	Location: Supply From: MDP Mounting: Surface Enclosure: Type 3R					Volts: Phases: Wires:		Wye				A.LC. Rating: 10,000 Mains Type: MCB Mains Rating: 600 A MCB Rating: 600 A	
Notes:													
СКТ	Circuit Description	Trip	Poles		Α.		3	Ι,		Poles	Trip	Circuit Description	скт
- 1	IDU-2.1 & ODU-2.1	15 A	2	1352	6905								2
3	100-2.14 000-2.1	120	1 ^			1352	6906			3	60 A	RTU-1.1	4
- 5								6905	6905				- 6
7	RTU-1.2	60 A	3	6905	6905								8
9						6905	6906			3	60 A	RTU-2.3	10
11	1	l	l					19574	6905				12
13	RTU-2.1	175 A	3	19574	19574			_					14
15						19574	19574			3	175 A	RTU-2.2	16
17	RECEPTACLE	20 A	1				_	380	19574		_		18
19	SPARE SPARE	20 A	1	0	0			_	_	1		SPARE	20
21	SPARE SPARE	20 A	1			0	0	0	0	1 1		SPARE SPARE	22 24
	SPARE SPARE			0	0			0	0	1		SPARE	24
25	SPARE SPARE	20 A	1	- 0	- 0	0		_	_	1		SPARE	28
29	SPARE	20 A	1			-	-	0	0	1		SPARE	30
31	SPARE	20 A	1	0	0	_	_		0	1		SPARE	30
33	SPARE	20 A	1			0	0	-	_	1		SPARE	34
35	SPARE	20 A	1					0	0	1		SPARE	36
37	SPARE	20 A	1	0	0	_	_	- ·	<u> </u>	1		SPARE	38
39	SPARE	20 A	1	_	_		0	_		1		SPARE	40
41	SPARE	20 A	1	_	_	-	÷	0	0	1		SPARE	42
-71	UI AIL		al Load:	6121	6 VA	6121	6.1/6	6022		-	207	UI AIKE	74
			al Amps:		1 A	51			2 A	1			
Legen	1 :		.,,										
	Slassification		nnected I		Des	mand Fa	ctor		nated De			Panel Totals	
HVAC			2704 VA			100.00%			2704 VA				

100.00%

Non-Coincident Loads: 0 A Total Est. Demand - NC: 507

179591 VA 360 VA

Marrmoni Vox

PRELIMINARY
DESIGN
DEVELOPMENT
PROTOFICATION MODIVAL
RIGHTING OF COST MODITOR
MAN T 18, 2016

INTERIM REVIEW THIS DOCUMENT ESQUED ON 18 MAY 18 MAY



MISSION FAMILY YMCA

SHEET TITLE ELECTRICAL SCHEDULES

E501



PRELIMINARY
DESIGN
DEVELOPMENT
NOT FORREGULATORY APPROVAL
PREMITTING OR CORSTRUCTION

INTERIM REVIEW



ELECTRICAL DETAILS

E601

FAMILY

MISSION

P100

ABBREVIATIONS

(NOTE: ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON DRAWINGS) DCO

EXTERIOR 2-WAY FLOOR CLEANOUT IN CONCRETE PAD ECO (EXTERIOR FLOOR CLEANOUT IN CONCRETE PAD FCO E FLOOR CLEANOUT WCO WALL CLEANOUT P-TRAP FLANGE CONNECTION ELBOW TURN UP TEE DOWN TEE UP CAPPED PIPE

SYMBOL LEGEND

ARREVIATION	DESCRIPTION	ARREVIATION	DESCRIPTION
AC	ABOVE CEILING ABOVE FINISHED FLOOR	LB(S)	POUND(S)
AFF AFG	ABOVE FINISHED FLOOR ABOVE FINISHED GRADE	LWI	LEAVING WATER TEMPERATURE
AHG	ABUVE FINISHED GRADE ALTERNATE	LIO	LINEAR FEET
AP.	ACCESS PANEL	LTHW	LOW-TEMPERATURE. HOT WATER
APPROX	APPROXIMATE	LINW	LOW-TEMPERATURE, HOT WATER
APPROX	ARCHITECT	MAX	MAXIMUM
Person	ANGINIEGI	MF77	ME77ANINE
REE	BELOW FINISHED FLOOR	MER	MANUFACTURER
BLDG	BUILDING	MG	MEDIUM PRESSURE GAS
BLR	BOILER	MN	MINIMUM
BOP	BOTTOM OF PIPE	MISC	MISCELLANEOUS
		MTD	MOUNTED
CA	COMPRESSED AIR		
CFM	CUBIC FEET PER MINUTE COMPRESSOR	N/A	NOT APPLICABLE NORMALLY CLOSED
CMPR	CUMPRESSUR	NC NG	NORMALLY CLOSED NATURAL GAS
COND	CONDENSATION	NG NIC	NOT IN CONTRACT
CUND	CONDENSATION COLD WATER	NIC NO	NOT IN CONTRACT NORMALLY OPEN
CW	COLDWAIDN	NO NO	NUMBER
DEG OR *	DEGREE	NPW	NON-POTABLE WATER
DCO	DOUBLE CLEAN-OUT	NTS	NOT TO SCALE
DIA	DIAMETER		
DN	DOWN	02	OXYGEN
		00	DIAMETER, OUTSIDE
EA	EACH	OZ	OUNCE
ECO	EXTERIOR CLEAN-OUT		
ELEC	ELECTRIC(AL)	PD	PRESSURE DROP OR DIFFERENCE
ELEV FOLIP	ELEVATION FOLIPMENT	PH PPM	PHASE PARTS PER MILLION
EWC	ELECTRIC WATER COOLER	PRI	POUNDS PER SQUARE INCH
EWU	FLECTRIC WATER HEATER	PRIA	POUNDS PER SQUARE INCH ARSOLUTE
PWT	ENTERING WATER TEMPERATURE	PRIG	POLINDS PER SOLIABE INCH GAGE
FXIST	EXISTING	1 010	FOUNDO FER DOUBLE INCIT GROLE
		RECIRC	RECIRCULATE
"F	FAHRENHEIT	RPM	REVOLUTIONS PER MINUTE
FCO	FLOOR CLEAN-OUT	RTU	ROOF TOP UNIT
FP8	FEET PER SECOND		
FT	FOOT OR FEET	SCH	SCHEDULE
		SP	STATIC PRESSURE
GA	GAGE OR GAUGE	SPEC SO	SPECIFICATION SOLIABE
GPD	GALLONS GALLONS PER DAY	80	SANITARY SEWER
GPH	GALLONS PER LIAT	STD	STANDARD
GPM	GALLONS PER MINUTE	SUCT	SUCTION
GW	GREASE WASTE	SUSP	SUSPENDED
		SW	SOFT WATER
HD	HEAD		
HP	HORSEPOWER	TEMP	TEMPERATURE
HVAC	HEATING, VENTILATION AND AIR		
	CONDITIONING	UH	UNIT HEATER
HW	HOT WATER	UOI	UNLESS OTHERWISE INDICATED
HWR	HOT WATER RETURN	v	
In.	DIAMETER, INSIDE	VAC	VENT
ID IN	INCH	VAC	VERTICAL
	HWAT I	*ERI	*LICITUME
KW	KILOWATT	w	WITH
		WCO	WALL CLEAN-OUT

GENERAL PLUMBING NOTES

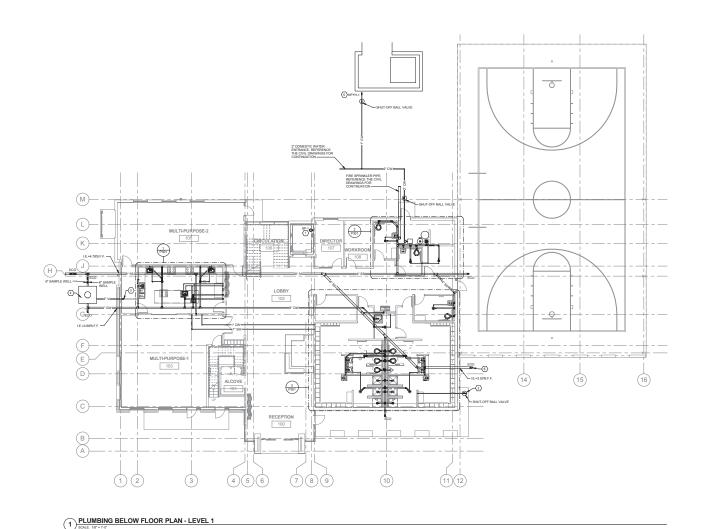
- ALL WORK SHALL BE IN ACCORDANCE WITH THE APPLICABLE IPC, APPLICABLE BUILDING CODES, LOCAL AMENDMENTS, O.S.H.A LATEST EDITIONS, AND MANUFACTURER INSTRUCTIONS.
- THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES PRIOR TO THE INSTALLATION OF THE PIPING, FIXTURES AND EQUIPMENT.
- CONTRACTOR SHALL CONSULT WITH THE ENGINEER IF THE SYSTEM CANNOT BE INSTALLED AS DESIGNED. IF CONTRACTOR IDENTIFIES ANY DISCREPANCIES WHILE PRICING THE PROJECT, CONTRACTOR SHALL NOTIFY ARCHITECT AND ENGINEER AND RESOLVE ISSUE)S PROYER TO SUBMITTING FINAL PRICE.
- DRAWINGS ARE DIAGRAMMATIC ONLY AND SHALL NOT BE SCALED. NOT ALL COMPONENTS CAN BE SHOWN, BUT MUST BE INCLUDED TO ENSURE A FUNCTIONAL SYSTEM.
- 5. CONTRACTOR TO PROVIDE SYSTEM OPERATION AND MAINTENANCE MANUAL TO OWNER
- 6. CONTRACTOR SHALL CONSULT WITH A STRUCTURAL ENGINEER TO BEFORE MODIFYING STRUCTURAL SYSTEMS BY CUTTING, NOTCHING, BORING, ETC. TO VERIFY STRUCTURAL CAPACITY BEFORE INSTALLATION.
- 7. THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER PRIOR TO DEVIATING FROM THE CONSTRUCTION DOCUMENTS.
- 8. SHOULD THE INSTALLATION REQUIRE ADDITIONAL SYSTEM COMPONENTS IN ORDER TO ACCOMMODATE UNFORESSESSIBLED CONDITIONS, THE CONTRACTOR SHALL INCLUDE THE ITEMS AS PART OF THE SCOPE OF WORK IN THESE CONSTRUCTION DOCUMENTS.
- NO PIPING SHALL PASS DIRECTLY OVER ELECTRICAL POWER DISTRIBUTION CABINETS. CONTRACTOR TO VERIEY PANEL LOCATIONS PRIOR TO PIPING INSTALLATION.
- CONTRACTOR SHALL ENSURE THAT EQUIPMENT AND APPURTENANCES ARE PROTECTED CONDITIONS DURING INSTALLATION.
- 11. CONTRACTOR SHALL NOTIFY THE OWNER 72 HOURS PRIOR TO ANY SHUTDOWN OF UTILITIES.
- ALL PLUMBING EQUIPMENT WHICH ARE LOCATED BEHIND GYPSUM BOARD ARE REQUIRED TO HAVE ACCESS PANELS.
- THE FINAL INTERPRETATION OF THESE CONSTRUCTION DOCUMENTS SHALL COME FROM THE ENGINEER OF RECORD.
- 14. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF UTILITIES AND BUILDING STRUCTURE PRIOR TO CONSTRUCTION.

GENERAL NOTES REFERENCE SHEET P100 FOR LEGENDS, SYMBOLS, ABBREVIATIONS AND FURTHER GENERAL NOTES. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES PRIOR TO THE INSTALLATION OF PLUMBING FIXTURES, PIPING, AND EQUIPMENT.

KEYED NOTES 🕢

 FURNISH A 1° COLD WATER PIPE AND BALL VALVE INSIDE OF A VALVE BOX TO SERVE THE FUTURE SWIMMING POOL. ROUTE A 2" VENT PIPE UP INSIDE THE INTERIOR WALL AND CONNECT TO THE HORIZONTAL VENT PIPING ABOVE THE CFILING

5. FURNISH AND INSTALL A NON-FREEZE YARD HYDRANT.
ROUTE A 1" COLD WATER PIPE FROM THE YARD HYDRANT AND
CONNECT TO THE HORIZONTAL COLD WATER PIPING BELOW
THE FROST LINE.



GENERAL NOTES REFERENCE SHEET P100 FOR LEGENDS, SYMBOLS, ABBREVIATIONS AND FURTHER GENERAL NOTES. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES PRIOR TO THE INSTALLATION OF PLUMBING FIXTURES, PIPING, AND EQUIPMENT.

KEYED NOTES 🕢 FURNISH AND INSTALL A WALL CLEAN-OUT 18" A F.F. ROUTE A 2" SANITARY SEWER PIPE DOWN FROM THE WALL CLEAN-OUT INSIDE THE CHASE WALL OR WALL AND CONNECT TO THE HORIZONTAL SANITARY SEWER OR VENT PIPING BELOW THE FLOOR.

2. FURNISH AND INSTALL A NON FREEZE HOSE BIB 24" AFF. ROUTE A 34" CW PIPE FROM THE HORIZONTAL CW PIPING DOWN INSIDE THE CHASE WALL OR WALL AND CONNECT TO NEHB-1. COORDINATE WITH THE STYLE AND LOCATION WITH THE ARCHITECT PROICE TO ROUGH-IN. 3. ROUTE A 2" VENT PIPE DOWN INSIDE THE WALL AND CONNECT TO THE SANITARY SEWER PIPE SERVING THE FLOOF SINK.

5. ROUTE A 2" VENT UP TO THE FLOOR ABOVE 7. ROUTE A 2° DRAIN PIPE DOWN TO THE SUMP PUMP AND CONNECT.

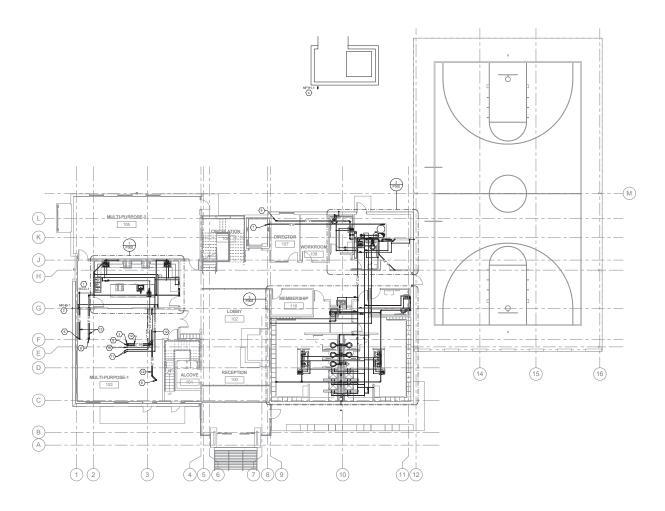
8. ROUTE A 2' SANITARY SEWER PIPE UP TO THE FLOOR ABOVE AND CONNECT TO THE PLUMBING FIXTURE.

 ROUTE A 1/2" HOT WATER RETURN PIPE UP TO THE FLOOR ABOVE AND CONNECT TO THE HORIZONTAL HOT WATER RETURN PIPING ABOVE THE CEILING SPACE. 10. ROUTE A 1/2" DRAIN PIPING UP TO THE FLOOR ABOVE AND CONNECT TO THE AUTOMATIC TRAP PRIMER. 11. ROUTE A 1" HOT AND SOFTWATER PIPE UP TO THE FLOOF ABOVE AND CONNECT TO THE HOT AND SOFTWATER PIPING ABOVE THE CEILING SPACE.

12. FURNISH AND INSTALL FIRE WRAP INSULATION ON PVC PIPING WITHIN A RETURN AIR PLENUM.

SHEET TITLE LEVEL 1 PLUMBING ABOVE FLOOR PLAN

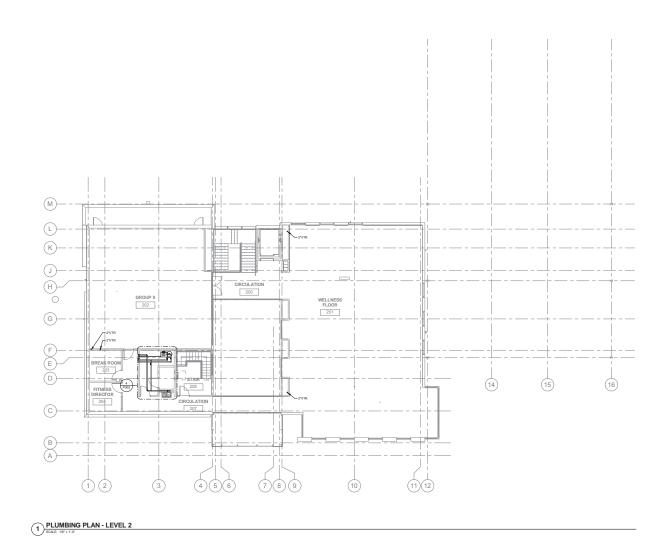
P202



1 PLUMBING ABOVE FLOOR PLAN - LEVEL 1

GENERAL NOTES REFERENCE SHEET P100 FOR LEGENDS, SYMBOLS, ABBREVIATIONS AND FURTHER GENERAL NOTES. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES PRIOR TO THE INSTALLATION OF PLUMBING FIXTURES, PIPING, AND EQUIPMENT.

SHEET TITLE LEVEL 2 PLUMBING PLAN



11. FURNISH AND INSTALL A COUNTER MOUNTED ONE-COMPARTMENT SINK ROUTE A 12° HOT AND COLD WATER PIPE UP FROM BELOW THE FLOOR AND CONNECT TO THE PLUMBING FIXTURE. ROUTE A 2° GREASE WASTE PIPE DOWN INSIDE THE WALL, BELOW THE FLOOR AND CONNECT TO THE HORIZONTAL GREASE WASTE PIPING BELOW THE FLOOR.

GENERAL NOTES REFERENCE SHEET P100 FOR LEGENDS, SYMBOLS, ABBREVIATIONS AND FURTHER GENERAL NOTES.

KEYED NOTES 🕖 FURNISH AND INSTALL A WALL MOUNTED FLUSH VALVE
WATER CLOSET, ROUTE AND CONNECT A 4" SANITARY SEWER
PIPE FROM THE PLUMBING FIXTURE DOWN INSIDE THE WALL
OR CHASE WALL AND CONNECT TO THE HORIZONTAL
SANITARY SEWER PIPING BELOW THE FLOOR.

2. FURNISH AND INSTALL A COUNTER MOUNTED LAVATO ROUTE A 2° SANITARY SEWER PIPE DOWN INSIDE THE WAL BELOW THE FLOOR AND CONNECT TO THE HORIZONTAL SANITARY SEWER PIPING BELOW THE FLOOR.

FURNISH AND INSTALL A WALL MOUNTED LAVATORY ROUTE A 2" SANITARY SEWER PIPE DOWN INSIDE THE W. BELOW THE FLOOR AND CONNECT TO THE HORIZONTAL SANITARY SEWER PIPING BELOW THE FLOOR.

B. FURNISH AND METHEL AT FLOOR DRAW, ROUTE AT BEING THE PROBLEM FROM BOTH AT B

7. FURNISH AND INSTALL A 3" FLOOR DRAIN ROUTE A 3" SANTARY SEWER PIPE UP FROM BELOW THE FLOOR AND CONNECT TO THE FLOOR OR DIVIDED THE FLOOR PRIME FROM THE TRAP PRIMER CONNECTION ON THE FLOOR AND BRAIN BELOW THE FLOOR AND UP INSIDE THE WALL AND CONNECT TO AN AUTOMATIC TRAP PRIMER ABOVE THE FLOOR.

8. FURNISH AND INSTALL A 3" FLOOR SIMK. ROUTE A 3" SANTARY SEWER PIPE UP FROM BELOW THE FLOOR AND CONNECT TO THE FLOOR SIM. ROUTE A 12" THAP PRIMER PIPE FROM THE TRAP PRIMER CONNECTION ON THE FLOOR SIMK, BELOW THE FLOOR AND UP RIGIDE THE WALL AND CONNECT TO AN AUTOMATIC TRAP PRIMER ABOVE THE FLOOR.

IF. FURNISH AND INSTALL A SHOWER DRAIN ROUTE A 2"
SANTARY SEVER PIPE UP FROM SELOVI THE FLOOR AND
CONNECTT OT THE SHOWER DRAIN ROUTE A 2" YEART PIPE
DOWN INSIDE THE CHASE WALL, BELOVI THE FLOOR AND
CONNECTT OT THE 2" SANTARY SEVER RISER SERVING THE
SHOWER DRAIN BELOW THE FLOOR.

18. ROUTE A 2" COLD WATER PIPE FROM BELOW THE FLOOR UP THE FACE OF THE WALL AND CONNECT TO THE HORIZONTAL COLD WATER PIPING ABOVE THE CEILING. 19. ROUTE A FIRE SPRINKLER PIPE FROM BELOW THE FLOOR UP THE FACE OF THE WALL AND CONNECT TO THE HORIZONTAL FIRE SPRINKLER PIPING ABOVE THE CEILING.

21. ROUTE A 2" VENT PIPE FROM BELOW THE FLOOR, UP INSIDE THE WALL AND CONNECT TO THE HORIZONTAL VENT PIPING ABOVE THE CEILING.

22. ROUTE A 3° SANITARY SEWER PIPE FROM BELOW THE FLOOR, UP INSIDE THE WALL AND CONNECT TO THE HORIZONTAL SANITARY SEWER PIPING ABOVE THE CEILING.

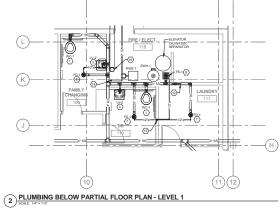


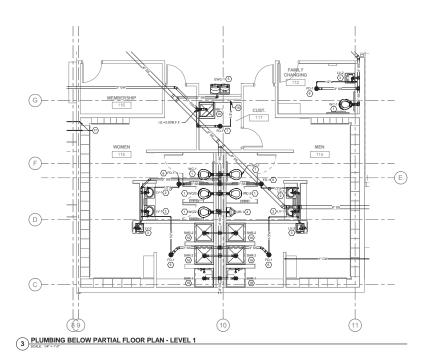
1 PLUMBING BELOW PARTIAL FLOOR PLAN - LEVEL 1

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LEVEL 1 PLUMBING BELOW PARTIAL FLOOR PLAN

KEYED NOTES (7)

2. FURNISH AND INSTALL A WALL MOUNTED FLUSH WALVE WATER CLOSET, ROUTE A 1-1/2" COLD WATER PIPE FROM THE PUMBING PATURE UP HISIDE THE CHASE WALL AND CONNECT TO THE HORROWTHAN COLD WATER PIPMG ABOVE THE CEILMG, ROUTE A 2" WALT PIPM UP HISIDE THE CHASE WALL FROM THE PLUSHING FRATURE AND CONNECT TO THE HORROWTH PIPMG ABOVE THE CEILMG.

3. FURNISH AND INSTALL A COUNTER MOUNTED LAVATORY. ROUTE A 1/2" HOT AND COLD WATER PIPE FROM THE PULMBRING RYTURE UP INSIDE THE WALL AND CONNECT THE HORIZONTAL HOT AND COLD WATER PIPMO ABOVE THE CEILING. ROUTE A2" VENT PIPE FROM THE PURMING PIXTURE UP INSIDE THE WALL AND CONNECT TO THE HORIZONTAL VENT PIPMO ADOVE THE CEILING.

4. FURNISH AND INSTALL A WALL MOUNTED LAWATORY. ROUTE A 1/2" HOT AND OOLD WATER PIPE FROM THE FULMISHOR FURLEY IP INSIDE THE WALL AND CONNECT THE HORIZONTAL HOT AND COLD WATER PIPING ABOVE THE CELLING, ROUTE A 2" WENT PIPE FROM THE PLUMISHING PIXTURE UP INSIDE THE WALL AND CONNECT TO THE HORIZONTAL VENT PIPING ADOVE THE CELLING.

5. FURNISH AND INSTALL A WALL MOUNTED URINAL ROUTE A 34° COLD WATER PIPE FROM THE PLUMBING FIXTURE UP INSIDE THE CHASE WALL AND CONNECT TO THE HORIZONTAL COLD WATER PIPING INSIDE THE CHASE WALL ROUTE A 2° VENT PIPE FROM THE PLUMBING FORTURE UP RISIDE THE CHASE WALL AND CONNECT TO THE HORIZONTAL VENT PIPING INSIDE THE CHASE WALL.

FURNISH AND INSTALL A ELECTRONIC WATER COOLER. ROUTE A 1/2" COLD WATER PIPE FROM THE PLUMBING FIXTURE UP INSIDE THE CHASE WALL AND CONNECT TO THE HORIZONTAL COLD WATER PIPING ABOVE THE CELING.

9. FURNISH AND INSTALL A COUNTER MOUNTED ONE COMPARTMENT SINK ROUTE A 12" HOT AND COLD WATER PIPE FROM THE PULMBING FORTURE UP INSIDE THE WALL AN CONNECT THE HORIZOMAL HOT AND COLD WATER PIPMIS AGOVE THE CHILDING, ROUTE A 2" VENT PIPE FROM THE PLUMBING FIXTURE UP INSIDE THE WALL AND CONNECTTO THE HORIZOMAL VENT PIPMIS ABOVE THE CEILING.

TO FURNISH AND INSTALLA COUNTER MOUNTED ONE COMPARTMENT SINK ROUTE A 12" HOT AND COLD WATER PIPE FROM THE PULMBING FOUTURE WITHIN THE ISLAND CARDISTRY AND CONDECT THE HORZONTAL HOT AND COLD WATER PIPHOR BELOW THE FLOOR ROUTE A 2"SLAND VENT PIPE FROM THE PLUMBING FOTURE UP INSIDE THE CABINET TO THE OUTTON SCHOOL ON THE COLD WATER PIPHOR SITH CARDISTON DOWN AND CONNECT TO THE OUTTON SCHOOL ON STREETING DIVING MAD CONNECT. TO THE BOTTOM OF THE COUNTERTOP, DOWN AND CONN TO THE VENT PIPING BELOW THE FLOOR.

13. FURNISH AND INSTALL AN ICE MAKER BOX WITH A QUARTER TURN BALL WAVE AND A SHOCK ARRESTOR. MOUNT THE ICE MAKER BOX AT 24" A FF. ROUTE A 12" COLD WATER PIPE FROM THE ICE MAKER BOX UP INSIDE THE WALL AND CONNECT TO THE HORIZONTAL COLD WATER PIPING ABOVE THE CEILING.

14. FURNISH AND INSTALL AN AUTOMATIC TRAP PRIMER INSIDE THE WALL WITH A QUARTER TURN BALL VALVE, WATER HAMMER ARRESTOR AND AN ACCESS PANEL ROUTE THE TRAP PRIMER PIPE ODWN INSIDE THE WALL AND CONNECT THE HORIZONTAL TRAP PRIMER PIPING BELOW THE FLOOR

15. FURNISH AND INSTALL AN ELECTRIC WATER HEATER. ROUTE A 1-1/2" HOT AND SOFT WATER PIPE DOWN TO THE WATER HEATER AND MAKE THE FINAL CONNECTIONS.

18. FURNISH AND INSTALL A NON FREEZE HOSE BIB 24" AFF ROUTE A 3/4" CW PIPE FROM THE HORIZONTAL CW PIPING DOWN INSIDE THE CHASE WALL OR WALL AND CONNECT TO NFHB-1. COORDINATE WITH THE STYLE AND LOCATION WITH THE ARCHITECT PRIOR TO ROUGH-IN.

19. FURNISH AND INSTALL A 3" FLOOR SINK. ROUTE A 3" SANTARY SEWER PIPE UP FROM BELOW THE FLOOR AND CONNECT TO THE FLOOR SINK. ROUTE A 12" THAP PRIMER PIPE FROM THE TRAP PRIMER CONNECTION ON THE FLOOR SINK, BBLOW THE FLOOR AND UP RIGIDE THE WALL AND CONNECT TO AN AUTOMATIC TRAP PRIMER ABOVE THE FLOOR.

20. ROUTE A 1" HOT AND SOFTWATER PIPE DOWN INSIDE THE WALL AND CONNECT TO THE HOT AND SOFTWATER PIPING BELOW THE FLOOR.

22. ROUTE A 1/2" HOT WATER RETURN PIPE DOWN INSIDE THE WALL AND CONNECT TO THE HORIZONTAL HOT WATER RETURN PIPING BELOW FLOOR.

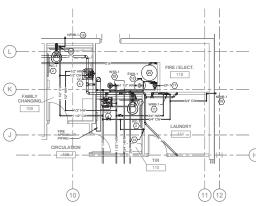
26. FURNISH AND INSTALL WATER HAMMER ARRESTOR WITH AN ACCESS PANEL ON THE MEN'S TOILET ROOM SIDE OF THE PLIMBING CHASE

28. FURNISH AND INSTALL A WATER SOFTENER, CULLICIAN MODEL NO. CTM-300-DF. ROUTE A 1-1/2" COLD AND SOFT WATER PIPE DOWN TO THE WATER SOFTENER AND MAKE THE FINAL CONNECTIONS.

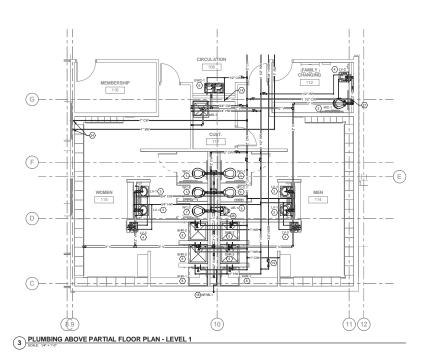
29. FURNISH AND INSTALL AN OIL/WATER SEPARATOR. REFERENCE DETAIL 11 ON SHEET P601.

30. FURNISH AND INSTALL A 1/2" COLD WATER PIPE, QUARTER TURN BALL VALVE AND WATER HAMMER ARRESTOR TO SERVE THE ICE MACHINE.

31. FURNISH AND INSTALL A 3/4" HOT WATER PIPE, QUARTER TURN BALL VALVE AND WATER HAMMER ARRESTOR TO SERVE THE DISHWASHING MACHINE.



PLUMBING ABOVE PARTIAL FLOOR PLAN - LEVEL 1
SCALE: 14° = 7.0°



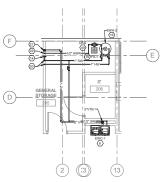
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1 PLUMBING ABOVE PARTIAL FLOOR PLAN - LEVEL 1



PLUMBING ABOVE PARTIAL FLOOR PLAN - LEVEL 2

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700 N. St. Mary's Suite 1600 San Ante

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PLUMBING ABOVE PARTIAL FLOOR PLAN

SHEET NO

KEYED NOTES SEE MANUFACTURER INSTRUCTIONS. COORDINATE WITH OTHER TRADES TO ENSURE SYSTEM FUNCTIONALITY AND MITIGATE CONFLICTS. CONTRACTOR SHALL INSTALL HEAT TRAPS ON INLET AND OUTLET PIPING. FURNISH AND INSTALL DRIP PAN THAT DOES NOT HINDER ACCESS TO THREADED DRAIN CONNECTION ON THE WATER HEATER. WATER HEATER SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION FOR MAINTENANCE PURPOSES.

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SHEET TITLE PLUMBING SCHEDULES

PEEL NO.		
Ρ4	01	

PLUMBING FIXTURES SCHEDULE DESCRIPTION THOS STATEM WALL MICHAELS WATER COCKER WITH BOTH FILLIBM STATION WILL AND STATEM STATEM STATEM WILL MICHAELS STATEM WILLIAM STATEM WILLIAM STATEM WHITE JACON STATEM WHITE JACON STATEM WHITE JACON STATEM WHITE JACON STATEM STATE COMMENTS R WALL MOUNTED - THE FOXTURE SHALL MOUNTED AT A HEIGHT THAT MEETS SOURCE LOUR CAPY OF SET WITH METALE STREETS AND TOP ASSIST STREETS AND THE SET OF SE OOKLINE* MODEL K-2202-2 REGISTER COPIES AND THE STATE OF THE CONTRICTOR SHALL MOUNT THE STATE OF THE STATE SHR-1 SYMMONS "DIA" 3503-H321-V-CYL-B-X-CHKS COMMET AN ACT STATE OF THE PROPERTY OF THE PRO ENGALUE: 6" BOWN DEPTH 2 HOUSE PANNED AND 4" CENTERS TS. PANNED AND 4" CENTERS TS. BRASS MOCE, NO. BITHAD WITH A CENTERS AND 4" WIRST BLACES, 15 GPM AERATOR AND A" WIRST BLACES, 15 GPM AERATOR DEPTH AND NOTALL A LEGARAT THERMOSTATION MOVE WITH A MODEL NO. 1704 F. BELOW THE LAWYTORY OF THE SECOND THE STATE OF THE SECOND THE STATE SECOND TH MODEL No. 14-3C-18X24 WC-2 KOHLER "KINGSTON" MODEL NO. K-4325

	LECTRIC WATER HEATER SCHEDULE											
MARK	MANUFACTUR ER	MODEL	CAPACITY (GAL.)	RECOVERY TEMP. RISE	RECOVERY GAL/HR	VOLT / PH	WATTS	DESCRIPTION	LOCATION	KEYNOTE		
EWH-1	A.O. SMITH	DEN-120	119	100	24	208/3	6000	TANK WATER HEATER	RISER 110	1,2,3,4,5		
EWH-2	A.O. SMITH	DEL-40	40	100	18	208/3	4500	TANK WATER HEATER	GENERAL STORAGE 205	1,2,3,4,5		

PUMP SCHED	ULE							
MARK	MANUFACTURER	MODEL	GPM	VOLT / PH	DESCRIPTION	HP	LOCATION	KEYNOTE
SP-1	BELL AND GOSSETT	2EC06	50 GPM	120/1	SUBMERSIBLE EFFLUENT PUMP	1/2	ELEVATOR SUMP PIT	1,2
CP-1	TACO	006-B4	1 GPM	120/1	HOT WATER RECIRCULATION PUMP	1/40	RISER 110	1,2
CP-2	TACO	006-B4	1 GPM	120/1	HOT WATER RECIRCULATION PUMP	1/40	GENERAL STORAGE 205	1,2

FIXTURE TYPE	QTY	WSFU (EA)	DFU (EA)	TOTAL WSFU	TOTAL DFL
DRAIN - RECTANGULAR	20	0	5	0	100
ELECTRIC WATER CLOOER	4	0	1	ō	4
LAUNDRY TUB	3	4	2	12	6
LAVATORY - COUNTER MOUNTED	4	2	1	8	4
LAVATORY - WALL MOUNTED	5	2	1	10	5
MOP SINK	1	3	4	3	4
NON-FREEZE HOSE BIB	5	2.5	0	12.5	0
ONE-COMPARTMENT SINK	4	1.4	2	5.6	8
URINAL - WALL MOUNTED	1	5	4	5	4
WATER CLOSET - FLUSH VALVE - WALL MOUNTED	8	10		80	32

		WATE	R SERVICE SUMMARY					
PROJECT#:	2518MAMOK.002							
PROJECT TITLE:	MISSION YMCA		1					
DATE:	10-May-10		1					
PREPARED BY:	G. MOLINA		1					
			1					
		TOTAL FIX	TURE UNITS			136.1		
		TOTAL DE	MWND GPM			77		
	EST MATED PRE	SSURE AVAILABLE	AT EXISTING DOMESTIC WA	TER MAIN		75		
		PLU	MEING SYSTEM LOSSES					
		10% SAFE	FETY FACTOR					
	LOSS THROUGH TAP	SEE	NA PSILOSS			0		
	OSS THROUGH METER	SCE	NA	PSILOSS		0		
CHANGE D	LIE TO ELEVIATION DIFFERENCE	FEET	15	PSILOSSIFT	0.433	6.50		
LOSS T	HROUGH BACKFLOW DEVICE	TYPE	N/A	PSILOSS		0		
MNMUMPS	RESSURE REQUIRED AT FIXTURE	TYPE	FLUSH VALVE	20	20			
	PRE	SSURE AVAILABLE	FOR FRICTION LOSS (PSI)					
	LINEAR PIPE LENGTH	350	EQUIVALENT L	ENGTH FACTOR	133	466		
	A	ALABLE PSI LOSS	PER 100 FEET OF PIPE			0.0		

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PROJECT No. 2516MAMOR
Revisions

SHEET TITLE PLUMBING RISER DIAGRAM

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1 PLUMBING RISER DIAGRAM



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Revisions

PLUMBING DETAILS

SHEET NO.

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FLOW SWITCH

F (S) MANUAL PULL STATION × VISUAL DEVICE - CEILING MOUNTED (S) DUCT SMOKE DETECTOR AUDIO VISUAL DEVICE - CEILING MOUNTED 圆。 ANN FIRE ALARM CONTROL PANEL AUDIO VISUAL DEVICE - WALL MOUNTED FIRE ALARM ANNUNCIATOR PANEL ➾

FIRE ALARM REMOTE POWER SUPPLY

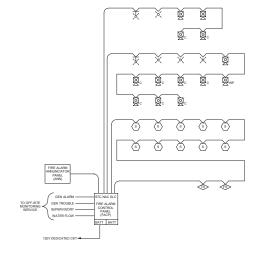
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FIRE ALARM SCOPE OF WORK

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE ENTIRE FACILITY IS COMPLETELY PROTECTED BY THE FIRE ALARM SYSTEM AND ALL REQUIRED TESTING.
- EVERY TIME THE CONSTRUCTION PERSONNEL LEAVES FOR THE DAY, FIRE ALARM PANELIS) SHALL PROVIDE CONTINUOUS PROTECTION TO THE FACILITY. THE PANELIS SHELL BE FREE OF ANY TROUBLE AND ALARM CONDITIONS DO ALSO REPORT TO THE MONTORING STATION. A FIRE WATCH SHALL THEN BE IMPLEMENTED BEFORE ANY PERSONNEL LEAVES THE SITE.
- 4. THE ENTIRE FIRE ALARM SYSTEM CABLING SHALL BE INSTALLED IN CONDUIT MIN 34*

GENERAL NOTES

- 2. ALL WIRING TO BE INSTALLED IN CONDUIT WITH CONTINUOUS GROUND.
- ALL JUNCTION BOX COVERS SHALL BE PAINTED RED. ALL LENGTHS OF CONDUIT SHALL HAVE AT LEAST ONE RED STRIPE.
- 4. PAINT FIRE ALARM SYSTEMS OUTLET BOXES AND JUNCTION BOXES RED.



- 2. SEE FLOOR PLANS FOR QUANTITY AND LOCATION OF DEVICES.
- 3. SPEAKER, STROBE, AND OTHER INDICATING FIRE ALARM DEVICES SHALL BE MOUNTED 80° AFF TO BOTTOM OF DEVICE.

- SPEARER, TRICKEL, AND OTHER RICHARD FRE ALARM DEVICES SHALL SE MOUNTED BY AFT TO BOTTOM OF FEAVOR.

 CONTINUENT DEBLI PROVICE FRE ALARM DOF DEMBINSOS TO MULLE THE FLOCATIONING PER PRIVE 7.2

 B. RICHARD FRE ALARM DEVICES AND STEEL PRESENTED BY A THE PROVINCE AND A THE PROVINCE SHOWING SECONDARY SHOW THE PROVINCE AND A THE PROVINCE

- 5. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL BOXES AND CONDUIT AS DIRECTED BY FIRE ALARM CONTRACTOR.

1 Fire Alarm Riser Diagram
SCALE: N.T.S.

Marrmoni Vox

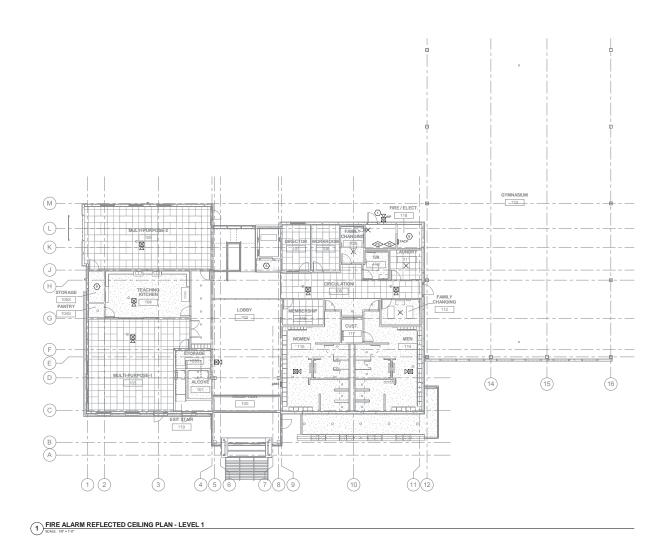
San Antonio,

SHEET TITLE SYMBOLS, ABBREV, & GENERAL NOTES

FA100

SHEET TITLE LEVEL 1 FIRE ALARM PLAN

FA201



GENERAL NOTES

- REFERENCE SHEET FA100 FOR LEGENDS, SYMBOLS ABBREVIATIONS AND FURTHER GENERAL NOTES.

KEYED NOTES (#)

PROVIDE SURFACE MOUNTED DEVICES AND CONDUIT PENETRATION THRU WALL.

SYMBOL LEGEND

VISUAL DEVICE - CELLING MOUNTED

TAMPER SWITCH

FIRE ALARM CONTROL PANEL FIRE ALARM ANNUNCIATOR PANEL

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GENERAL NOTES REFERENCE SHEET FA100 FOR LEGENDS, SYMBOLS, ABBREVIATIONS AND FURTHER GENERAL NOTES.

 DUCT SMOKE DETECTORS PROVIDED BY FIRE ALARM SYSTEM CONTRACTOR AND INSTALLED IN DUCTWORK BY MECHANICAL CONTRACTOR. FIRE ALARM SYSTEM CONTRACTOR SHALL PROVIDE WIRING TO DUCT SMOKE DETECTOR FROM FIRE ALARM CONTROL PANEL. MECHANICAL CONTRACTOR SHALL PROVIDE WIRING BETWEEN FIRE ALARM LOW VOLTAGE RELAY AND HVAC CONTROL EQUIPMENT. 6. ALL CABLING SHALL BE PLENUM RATED.

KEYED NOTES (#) REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF DUCT SMOKE DETECTORS.

SYMBOL LEGEND

VISUAL DEVICE - CELLING MOUNTED AUDIO VISUAL DEVICE - CEILING MOUNTED AUDIO VISUAL DEVICE - WALL MOUNTED

FIRE ALARM CONTROL PANEL FIRE ALARM ANNUNCIATOR PANEL

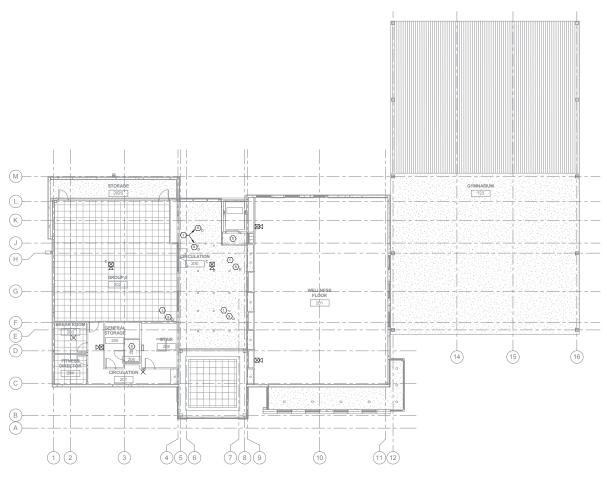
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ALARM PLAN

FA202



1) FIRE ALARM REFLECTED CEILING PLAN - LEVEL 2