

HOUSTON CHINESE CHURCH MASTER PLAN

10305 S Main St, Houston, TX 77025

4-27-21



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Site Analysis:



Existing Site Aerial Rendering & Existing Conditions Existing First & Second Area Usage Analysis First & Second As-builts Floor Plan



EXISTING SITE AERIAL RENDERING AND EXISTING CONDITIONS

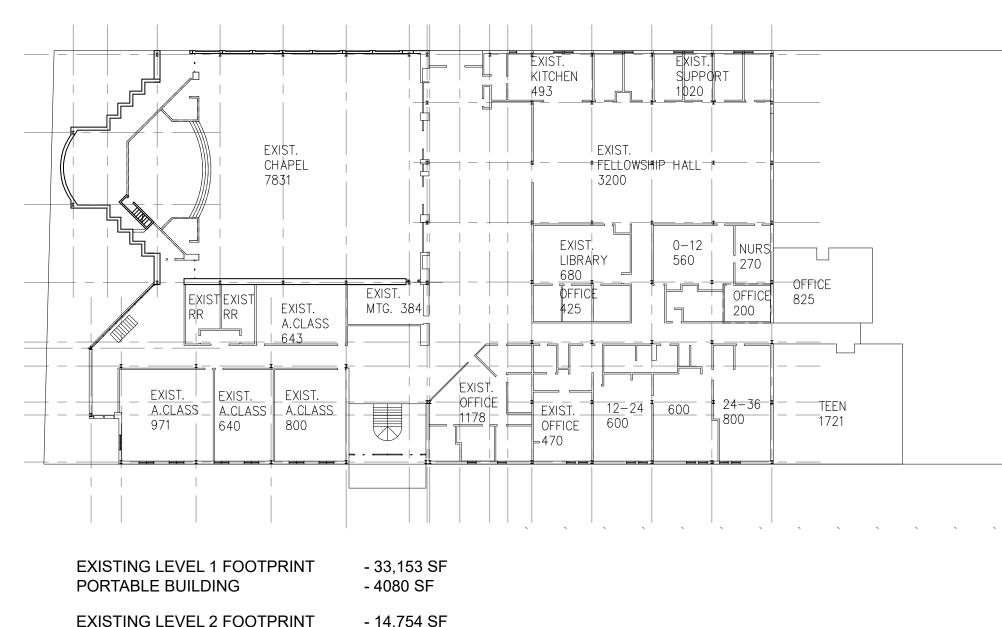




HOUSTON CHINESE CHURCH - MASTER PLAN

N SUNDAY SCHOOL USAGE	5912 SF
SUNDAY SCHOOL USAGE	0 SF
P USAGE	0 SF
USAGE	0 SF
SUNDAY SCHOOL USAGE	358 SF
SHARE USE	1633 SF

RCHITECTS



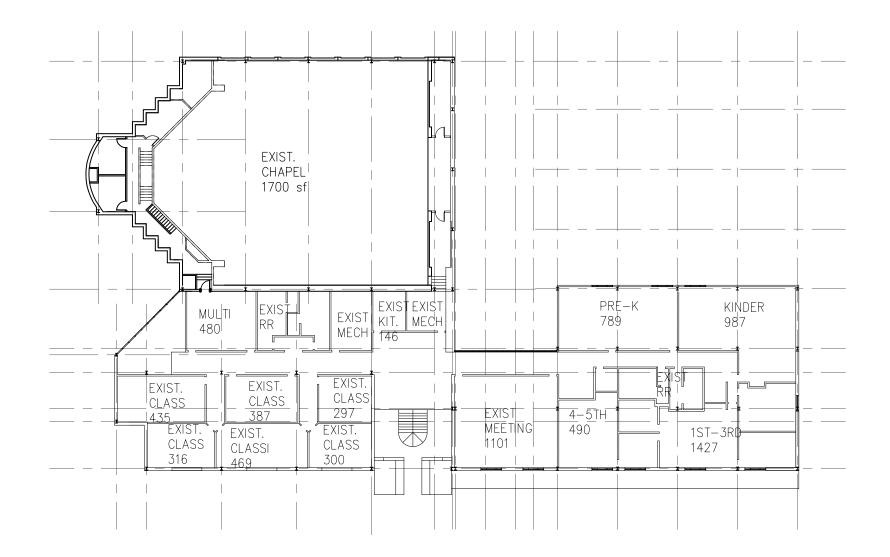
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AS-BUILTS LEVEL 1 FLOOR PLAN

C	XIS LAS 000	SS		

EXIS CLAS 1995	SS	





AS-BUILTS LEVEL 2 FLOOR PLAN



Building Analysis:

Master Plan Program



Current Attendance Numbers & Growth Projections

HCC - Attendance Numbers & Growth Projections

	Childre	n	Youth		Adult
Friday (7:30pm - 10pm)	20	PreK	60	Jr & Sr Hi	60
	30	K-2nd			40
	30	3rd-5th			160
Total	80		60		260
Sunday	10	Infants	80	Jr & Sr High	80
	25	PreK-K			120
	65	1st - 5th			135
Total	100		90		335

25% Growth Projection - Sunday

Peak Service	12	Infants	112	Jr & Sr High	100
	32	PreK-K			150
	82	1st - 5th			170
Total	126		112		420

Peak attendance design criteria			903	
Volunteers & Staff			90	
Total		People	993	93K sf
	2.0persons/car		500	Spaces

Cantonese English Mandarin

Cantonese English Mandarin

Cantonese English Mandarin

2 - 2.5 Acres 3.5 - 4 Acres





This program is based on information provided by HCC

Education Spaces	ļ	Program
Children Education (130 kids)		Sq. Ft.
Check-in		200
Classroom (0-11m) 10 kids		400
Classroom (11-23m) 10 kids		400
Classroom (24-36m) 10 kids		400
PreK-3 Classroom 20 kids		440
PreK-4 Classroom 20 kids		440
Kinder Classroom 20 kids		440
1st - 5 th Grade (6 @ 250 sf per room)		1,500
Resource Room		500
Storage		400
Nurse / Nursing room		90
Large Groups (80 kids)		1,600
Large Groups (50 kids)		1,000
Stage (2)		600
AV booth (2)		300
Recreational Area		800
Indoor Playground		800
	Sub-Total	10,310

Youth (125 youth)		Sq. Ft.
Check-in		200
Youth Worship (125 youth)		2,500
AV booth		150
Stage		400
Recreational Area with Kitchenette		1,500
Youth Small Classroom (10 @ 15 per classroom)		3,000
Youth Medium Classroom (30 per classroom)		600
Resource Room		400
AV Storage		150
Storage		300
B.O.H. (Back of House)		500
	Sub-Total	9,700

Adult Classrooms (420 adults)		Sq. Ft.
Small Classrooms (16 @ 10 per classroom)		4,000
medium Classrooms (4 @ 20 per classroom)		1,600
Large Multi-Purpose Classroom with divider (3 @ 50 per classroom)		3,000
Newcomers Room (20 ppl)		300
Ministry Storage (5 @ 200 SF)		1,000
	Sub-Total	9,900

Large Assembly & Multi-purpose

Chapel (200 seat) Stage & B.O.H. AV booth Waiting Room / Bridral Room with restroom (15 ppl) Storage & AV storage Multipurpose Hall (500 seat) Stage & B.O.H. AV booth Storage & AV storage Kitchen

Common & Misc. Spaces

Lobbies with Welcome Booth & Seating Area Restrooms, Janitor, Electrical / Mechanical Room Reading Room / Resource Center / Café Counseling Rooms (3 @ 4 per room)

Office Suite

Main Office (4 @ 150 sf) Ministry Staff Office (12 @ 100 sf) Administrative Space (2 @ 100 sf) Intern Staff Office (4 @ cubicle) Conference Room Breakroom / Workroom with restroom

Sanctuary Upgrade

Choir Room Rehearsal room with piano (2 @ 4 ppl) Baptimal Dressing Rooms with restroom (share as nurs Production Room (9' x 4') Cry Room

Existing Sanctuary Renovation

Sanctuary & B.O.H.

Circi

Other Components

Surface Parking - 500 cars @ 335sf/car

	Sq. Ft.
	2,000
	750
	150
	300
	200
	7,500
	1,000 150
	600
	900
Sub-Tota	
	Sq. Ft.
	7,000
	2,000
	1,500
	150
Sub-Tota	al 10,650
005-108	10,000
	Sq. Ft.
	600
	1,200
	200
	300
	400
Sub-Tota	250 al 2,950
Sub-1018	2,550
	Sq. Ft.
	600
	300
sing room)	80
	54
Sub-Tota	250 al 1,034
Sub-1018	1,034
	Sq. Ft.
	9,667
Sub-Tota	al 9,667
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	6a Et
	Sq. Ft. 167,500
	107,500

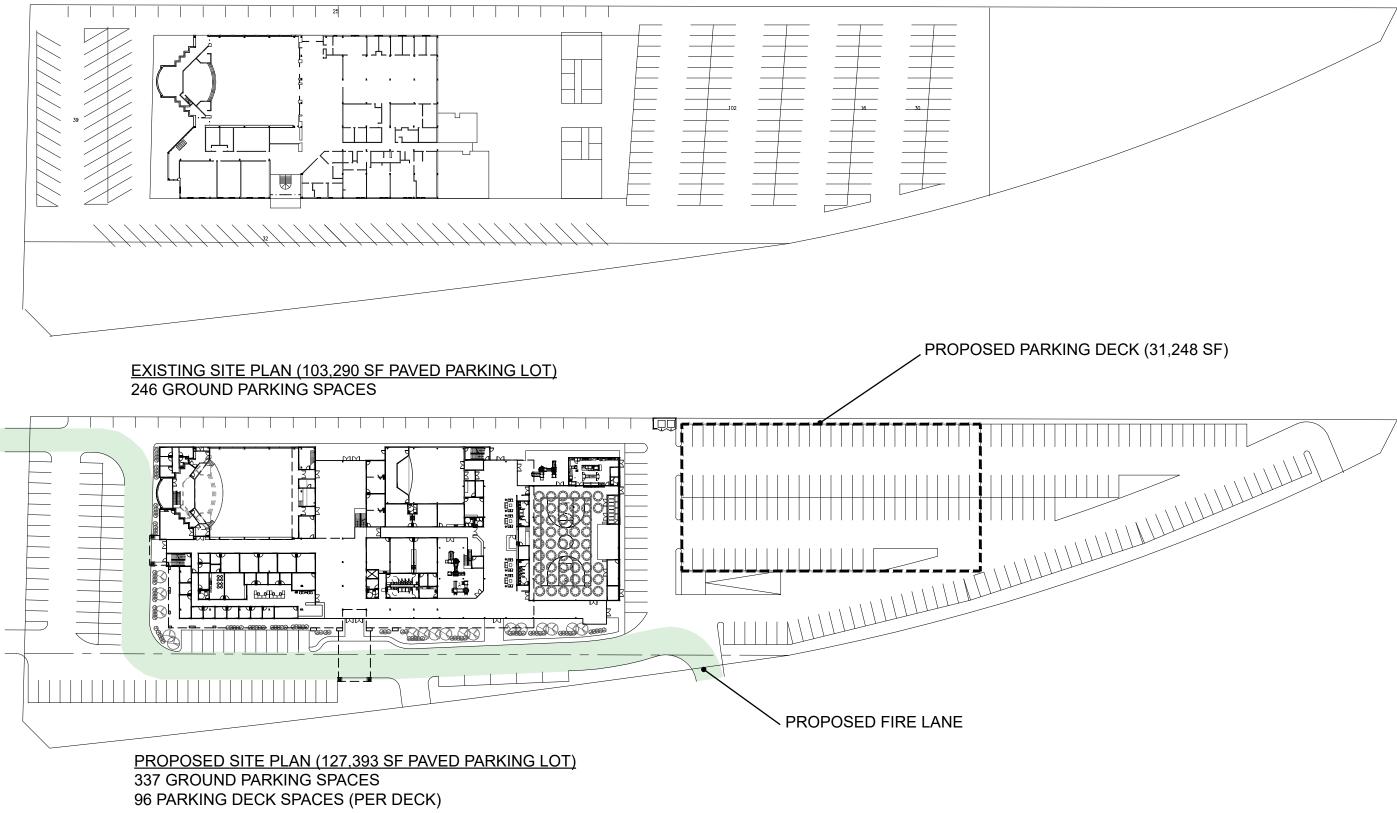


Master Plan Studies:

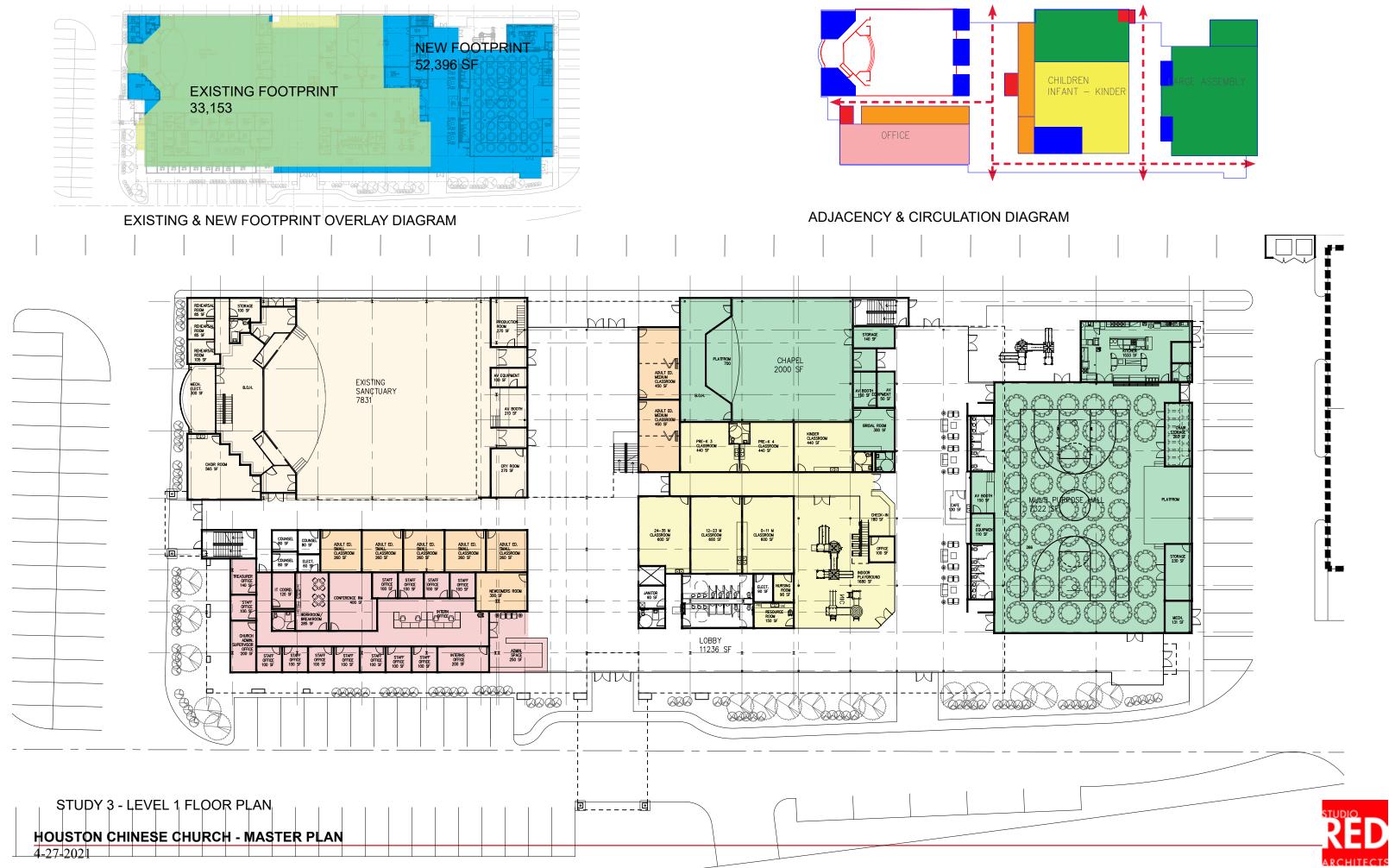
Floor Plan Study 3 & Diagrams Code Analysis

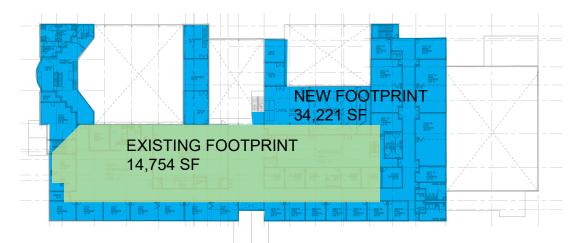


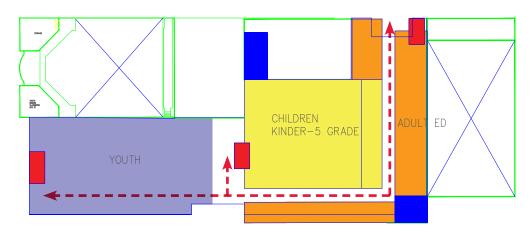
Existing Site Plan & Proposed Master Plan











EXISTING & NEW FOOTPRINT OVERLAY DIAGRAM

ADJACENCY & CIRCULATION DIAGRAM



STUDY 3 - LEVEL 2 FLOOR PLAN





CODE ANALYSIS:

LOCAL BUILDING CODE:	2012 (IBC) & HOUSTON BUILDING CODE
FIRE CODE:	2012 (IFC) HOUSTON FIRE CODE
ENERGY CODE:	2015 IECC OR ASHRAE 90.1-2007
MECHANICAL CODES:	2012 (UMC) UNIFORM MECHANICAL CODE
ELECTRICAL CODES:	2020 (NEC) NATIONAL ELECTRICAL CODE
PLUMBING CODES:	2012 (UPC) UNIFORM PLUMBING CODE
ACCESSIBILITY CODE:	TAS

OCCUPANCY GROUP: A-3 (ASSEMBLY WORSHIP) & E (EDUCATION) EXISTING BUILDING CONSTRUCTION TYPE: 2B, NON SPRINKLE

TYPE 2B (A-3) ALLOWABLE HEIGHT & BUILDING AREA: (2 = NON-COMBUSTIBLE MATERIAL; B = NON FIRE PROTECTED STRUCTURE,EXTERIOR & INTERIOR WALLS)

A-3 = TWO STORY 9,500 SF. 55 FT MAX E = TWO STORY 1400 SF, 55 FT MAX

TYPE 2A (A-3) ALLOWABLE HEIGHT & BUILDING AREA: (2 = NON-COMBUSTIBLE MATERIAL; A = 1HR FIRE PROTECTED STRUCTURE,EXTERIOR & INTERIOR WALLS FOR A-3)

A-3 = 3 STORY 15,500 SF, 65 FT MAX E = 3 STORY 26,500 SF, 65 FT MAX

CITY OF HOUSTON PARKING SPACE REQUIREMENT:

CHURCH - 1 PER 5 FIXED SEAT X 760 FIXED SEAT = 150 PARKING SPACES 1 PER 40 SF = 110 PARKING SPACES

CITY OF HOUSTON PLUMBING FIXTURE REQUIREMENT:

CHURCH -	1620 OCCUPANTS	
	WOMEN 1 PER 75 X 810	= 10 FIXTURES
	MEN 1 PER 150 X 810	= 6 FIXTURES
	LAVATORY 1 PER 200 X 1620	= 8 FIXTURES
	DRINKING FOUNTAIN 1 PER 1000	= 2 FIXTURES

BUSINESS – 295 OCCUPANTS WOMEN = 4 FIXTURES MFN = 4 FIXTURES LAVATORY = 6 FIXTURES

ALLOWABLE AREA & HEIGHT INCREASE BY EQUIPPING SPRINKLER SYSTEM:

A-3 (TYPE 2B): 9,500 SF + (frontage increase 9,500 SF) + (200% X 9,500) = 38,000 SF/FLOOR, 2 STORY AT 75 FT MAX

* MATCHING EXISTING TYPE 2B WILL REQUIRE FIRE SEPARATION AT MULTIPURPOSE HALL & KITCHEN, CHAPEL & SANCTUARY.

ALLOWABLE AREA & HEIGHT INCREASE BY EQUIPPING SPRINKLER SYSTEM:

A-3 (TYPE 2A): 15,500 SF + (frontage increase 15,500 SF) + (200% X 15,500) = 62,000 SF/FLOOR, 4 STORY AT 85 FT MAX

* SWITCHING TO TYPE 2A WILL REQUIRE FIRE PROOFING ON NEW & EXISTING WALLS & STRUCTURE

PROPOSED AREA:

LEVEL	1	=	523
LEVEL	2	=	342

PROPOSED PARKING SPACE COUNT:

SURFACE PARKING LOT	= 337 PARKI
PARKING DECK	= 96 PARKIN

PROPOSED PLUMBING FIXTURE COUNT:

= 24 f
= 23 F
= 37 F
= 2 FI

396 SF 221 SF

> ING SPACES NG SPACES

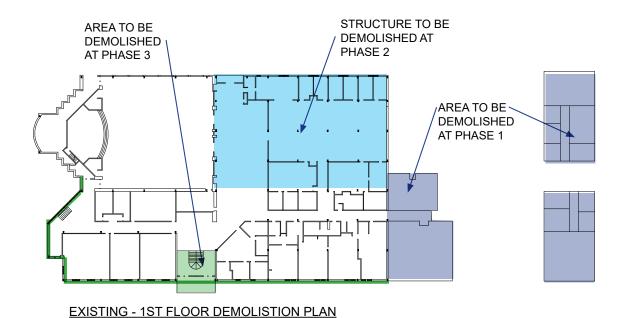
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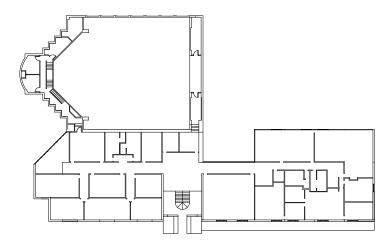


Master Plan Phasing:

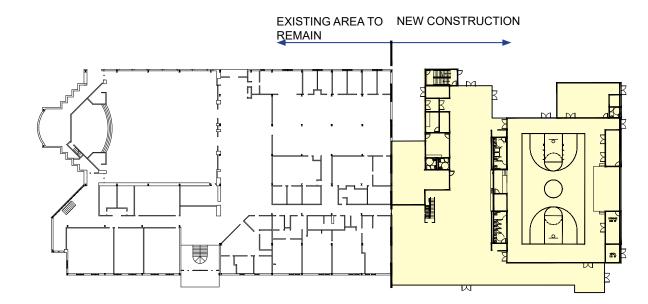
Demolition Plans & Phase 1 Plans Phase 2 & 3 Plans



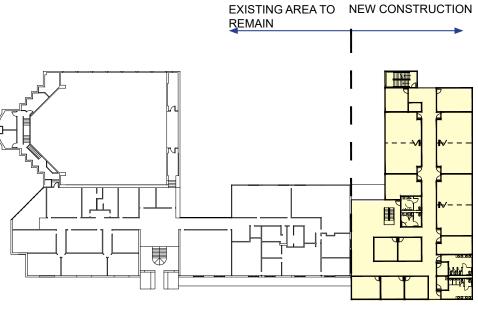




EXISTING - 2ND FLOOR DEMOLISTION PLAN



PHASE 1 - 1ST FLOOR PLAN



PHASE 1 - 2ND FLOOR PLAN

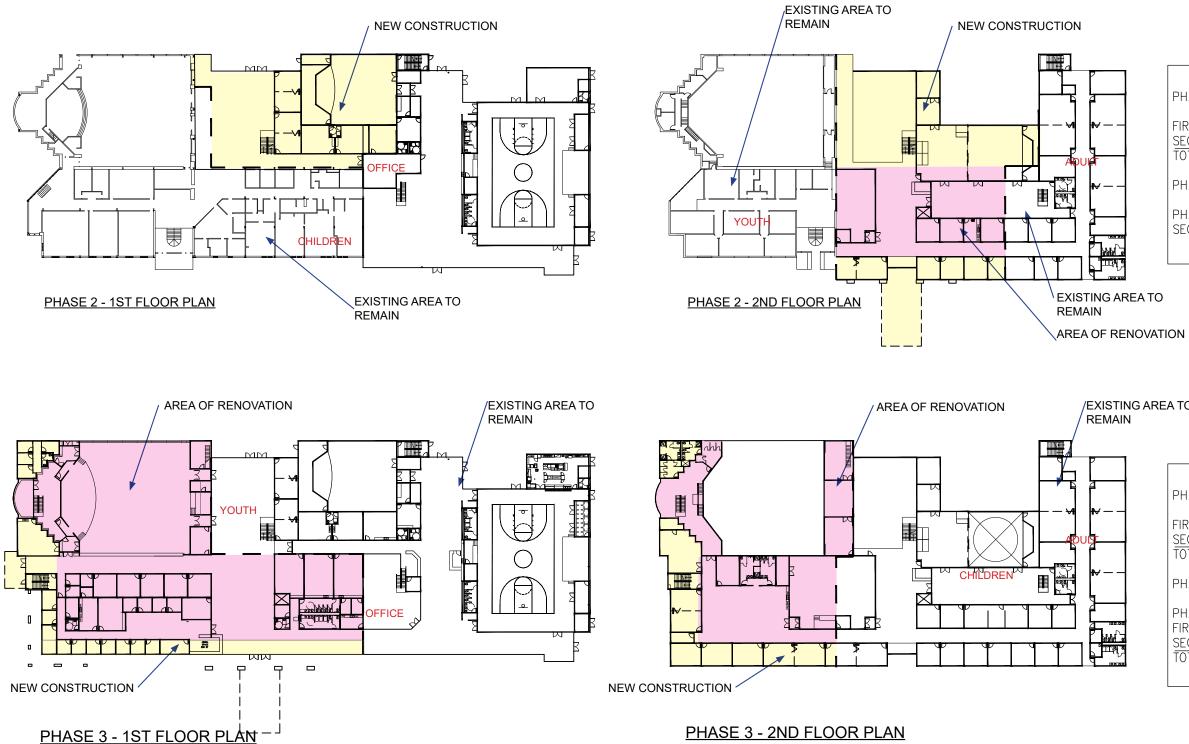
EXISTING BUILDING

FIRST FLOOR AREA – 33,153 SF – 4080 SF PORTABLE BUILDING SECOND FLOOR AREA – 14,754 SF TOTAL BUILDING AREA – 51,987 SF

PHASE 1 NEW CONSTRUCTION

FIRST FLOOR AREA - 18,903 SF SECOND FLOOR AREA - 9,783 SF TOTAL NEW AREA - 28,686 SF





PHASE 2 NEW ADDITION	
SECOND FLOOR AREA	– 9,296 SF – 6,894 SF – 12,330 SF
PHASE 2 DROP OFF CAN	NOPY - 1152 SF
PHASE 2 RENOVATION SECOND FLOOR AREA	– 7040 SF

/EXISTING AREA TO

PHASE 3 NEW ADDITION
FIRST FLOOR AREA – 2,897 SF SECOND FLOOR AREA – 3,188 SF TOTAL NEW AREA – 6,085 SF
PHASE 3 CANOPY – 300 SF
PHASE 3 RENOVATION FIRST FLOOR AREA – 22,540 SF SECOND FLOOR AREA – 8,658 SF TOTAL RENO. AREA – 31,225 SF



Master Plan Illustration:

Elevation Scheme 3C Exterior Renderings Elevation Scheme 3C Interior Renderings



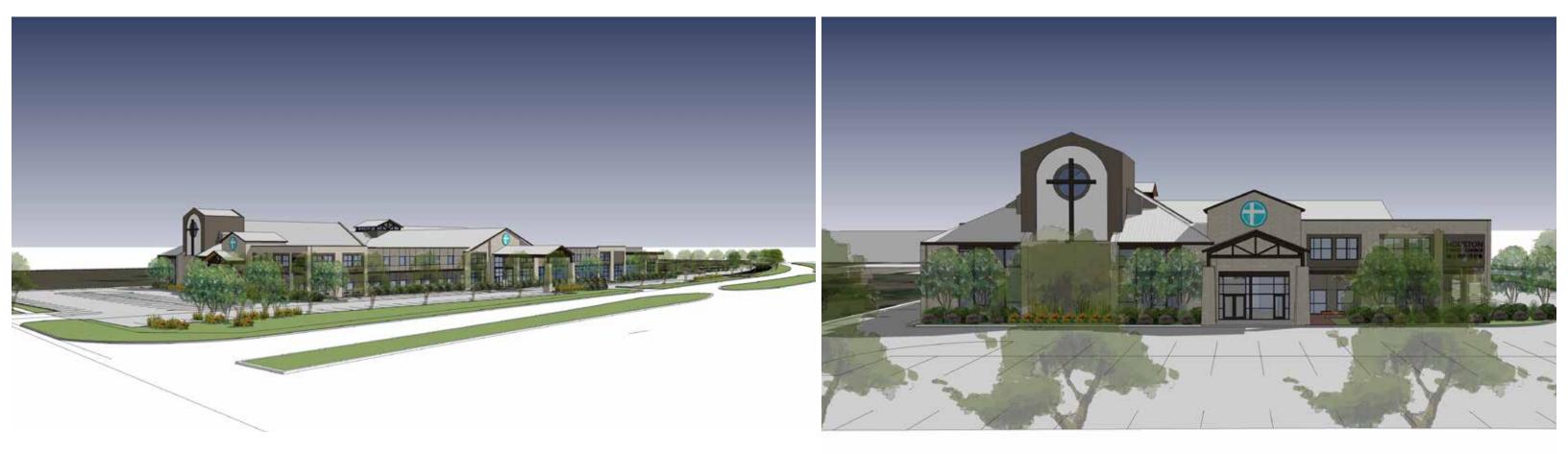


SCHEME 3C - AERIAL VIEW RENDERINGS

HOUSTON CHINESE CHURCH - MASTER PLAN

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SCHEME 3C - VIEWS FROM STREET & FREEWAY





SCHEME 3C - BUILDING ENTRANCE

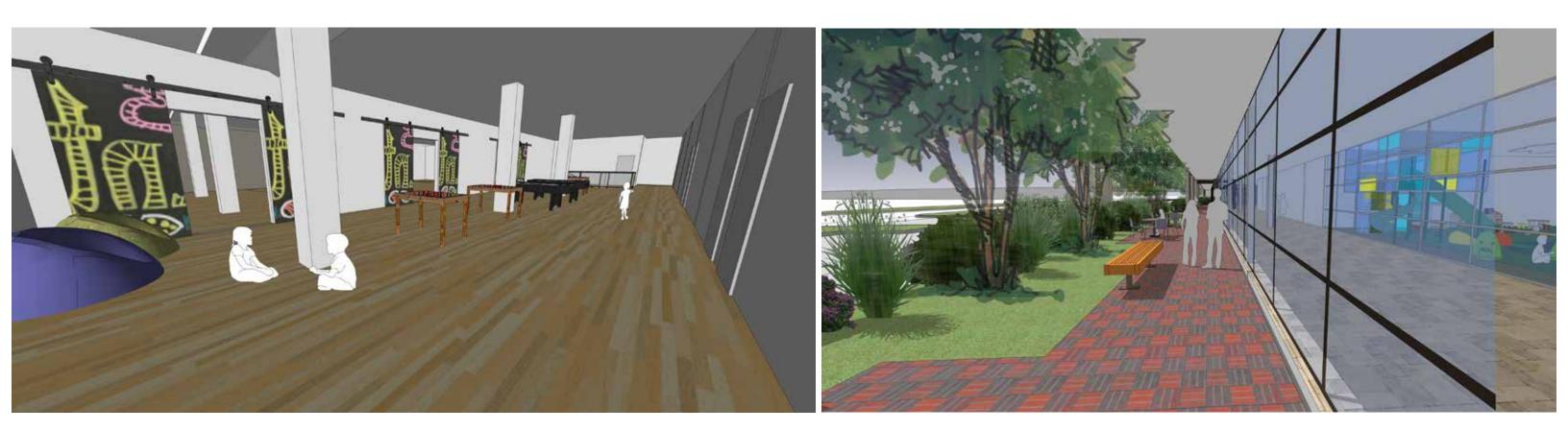


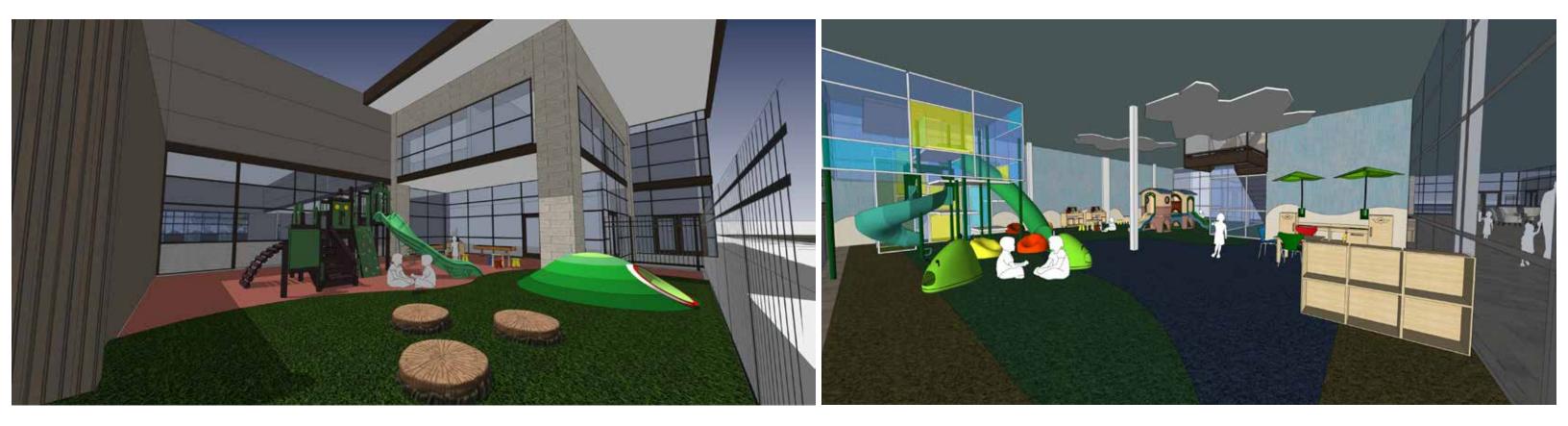




SCHEME 3C - LOBBY & CHECK-IN RENDERINGS







SCHEMEM 3C - COMMON SPACES & PLAYGROUND



Precedent Images:

Precedent Images - Worship Spaces Precedent Images - Common Spaces





- Precedent Images Urban Landscaping & Exterior







PRECEDENT IMAGES - URBAN LANDSCAPING & EXTERIOR









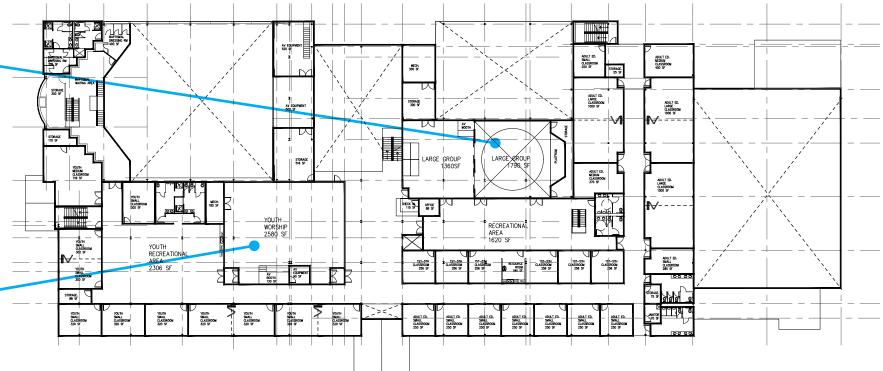






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PRECEDENT IMAGES - WORSHIP SPACES

HOUSTON CHINESE CHURCH - MASTER PLAN

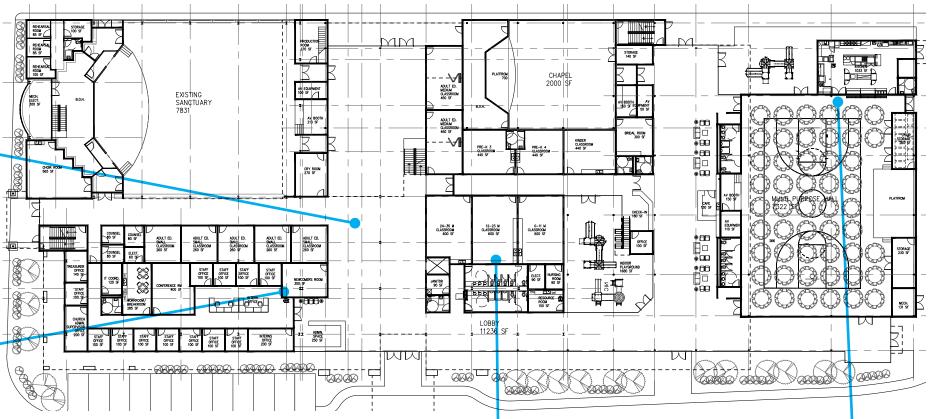
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PRECEDENT IMAGES - COMMON SPACES





Phase 1, 2 & 3 :



Phase 1 - 3 Prelimanary Budget Estimate Phase 1 Construction Time Line

PHASE 1 PRELIMANARY BUDGET:

SITE:	
SURFACE PAVED PARKING LOT	\$1,401,323
SITE DETENTION	\$500,000
PARKING LOT DEMOLITION	\$103,290
PARKING DECK	\$1,176,000
PHASE 1 DEMOLITION	\$20,439
PHASE 1 NEW CONSTRUCTION	\$6,454,350
TOTAL:	\$9,655,402

PHASE 2 PRELIMANARY BUDGET:

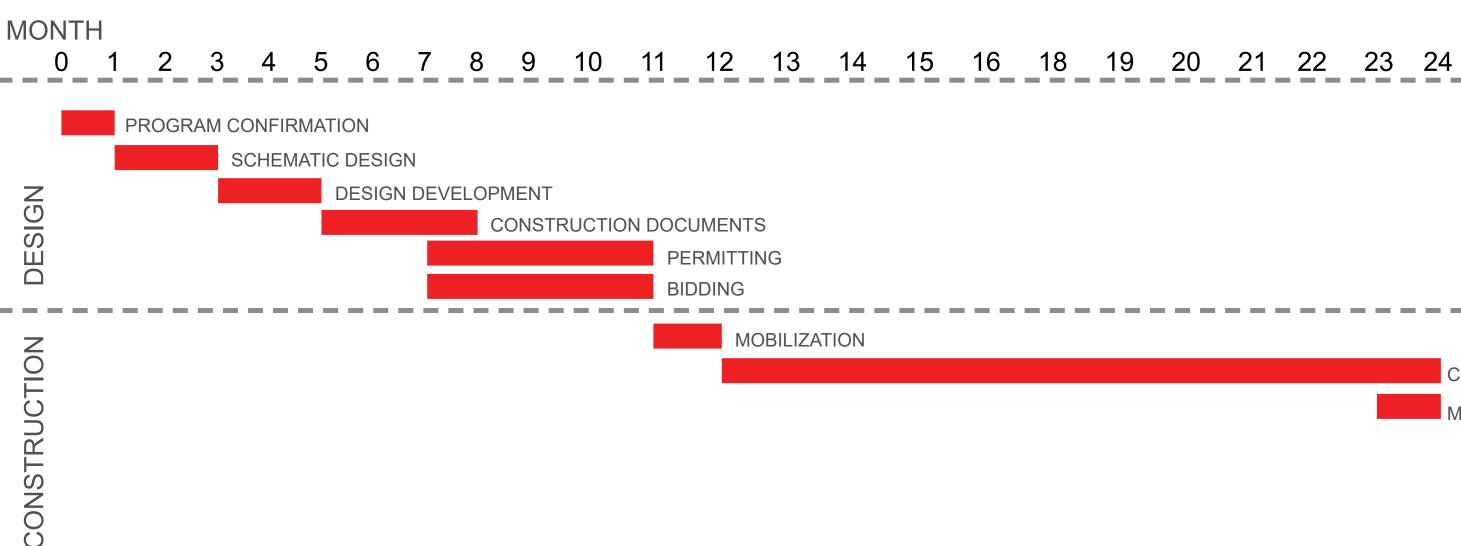
PHASE 2 DEMOLITION	\$47,895
PHASE 2 NEW ADDITION	\$2,774,250
PHASE 2 DROP OFF CANOPY	\$86,400
PHASE 2 RENOVATION	\$880,000
TOTAL:	\$3,788,545

PHASE 3 PRELIMANARY BUDGET:

PHASE 3 DEMOLITION	\$93,675
PHASE 3 NEW ADDITION	\$1,369,125
PHASE 3 CANOPY	\$22,500
PHASE 3 RENOVATION	\$3,903,125
TOTAL:	\$5,388,425

Preliminary Budget Estimate





CONSTRUCTION TIMELINE - NEW CONSTRUCTION

CONSTRUCTION

MOVE IN

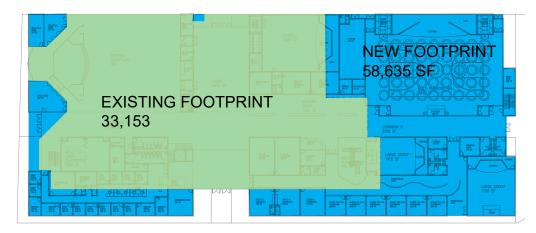


Floor Plan Study 1 & Diagrams Floor Plan Study 2 & Diagrams

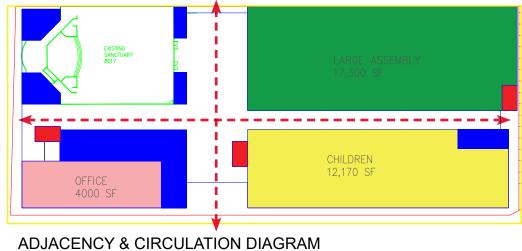


Previous Plans & Elevations Studies:

- Elevation Study 3A Exterior Renderings
- Elevation Study 3A Interior Renderings
- Elevation Study 3B Exterior Renderings
- Elevation Study 3B Interior Renderings



EXISTING & NEW FOOTPRINT OVERLAY DIAGRAM



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TOHAIR] STORAGE] 2 STORAGE MM PRODUC ROOM 170 SF REHEARSAL ROOM 310 SF REHEARSAI ROOM 310 SF CHAPEL 2000 SF KITCHEN 970 SF 00 00 v Equipm 10 SF EXISTING SANCTUARY 8017 B00TH 150 SF AV 800 150 SF LOBBY 6800 SF ADULT ED. MEDIUM CLASSROOM 400 SF ADULT ED. MEDIUM CLASSROOM 400 SF BRIDAL ROOM 300 SF R STORAGE 120 SF AV EQUIPM 120 SF BAPTISMAL DRESSING F 170 SF CHOIR ROOM 620 SF READING ROOM 1344 SF AV BOOTH 150 SF MM CORRIDOR A 2180 SF CORRIDOR B 3150 SF CHECK-IN 200 SF STORAGE 140 SF \langle ADULT ED. LARGE CLASSROOM \sim <u>666666666666</u> LARGE GROUP 1412 SF R Х 0-11 M CLASSROOM 600 SF 11-24 M CLASSROOM 600 SF RESOURCE ROOM 250 SF INDOOR MECH. Elec. 200 SF _____ Ì. 1000 SF 1810 750 NURSING ROOM 90 SF STORAGE g STAFF OFFICE 100 SF RECREATIONAL AREA WORKROC BREAKRO 200 SF ADMIN. SPACE 250 SF STAFF OFFICE 100 SF NN PRE-K 3 Classroom 440 SF PRE-K 4 CLASSROOM 440 SF KINDER 3 CLASSROOM 440 SF NEWCOMERS ROOM 425 SF KINDER 1ST-5TH CLASSROOM 250 SF KINDER 1ST-5 Classroom 250 SF KINDER 1ST-5TH CLASSROOM 250 SF KINDER 1ST-51 CLASSROOM 250 SF KINDER 1ST-5T CLASSROOM 250 SF KINDER 1ST-51 CLASSROOM 250 SF ð MINISTRY OFFICE 150 SF MINISTRY OFFICE 150 SF STAFF OFFICE 100 SF STAFF OFFICE 100 SF OFFICE 100 SF MINISTRY OFFICE 150 SF MINISTRY OFFICE 150 SF OFFICE 100 SF OFFICE 100 SF E OFFICE 100 SF <u>AKKKA AKKKA AKKKA AKKKA AKKKA AKKKA AKKKA AKKKA AKKKA AKKKA AKKKA</u> රත්ත්ර රත්ත්ර රත්ත්ර රත්ත්ර රත්ත්ර රත්ත්ර රත්ත්ර Ø

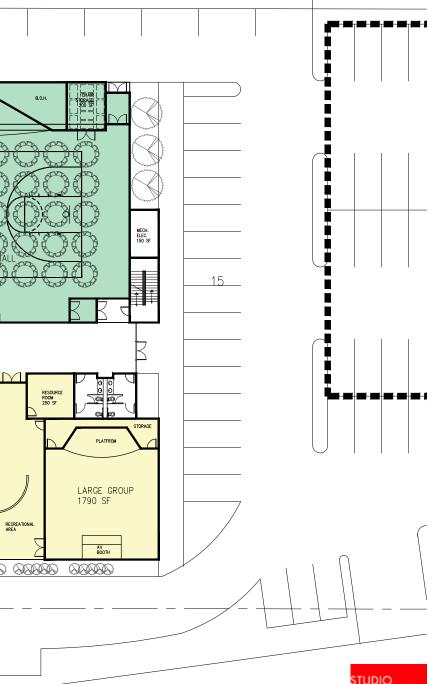
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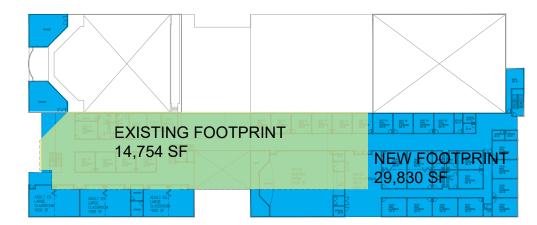
STUDY 1 - LEVEL 1 FLOOR PLAN

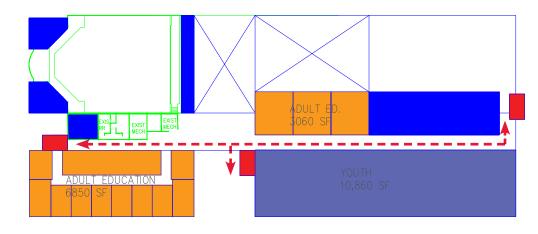
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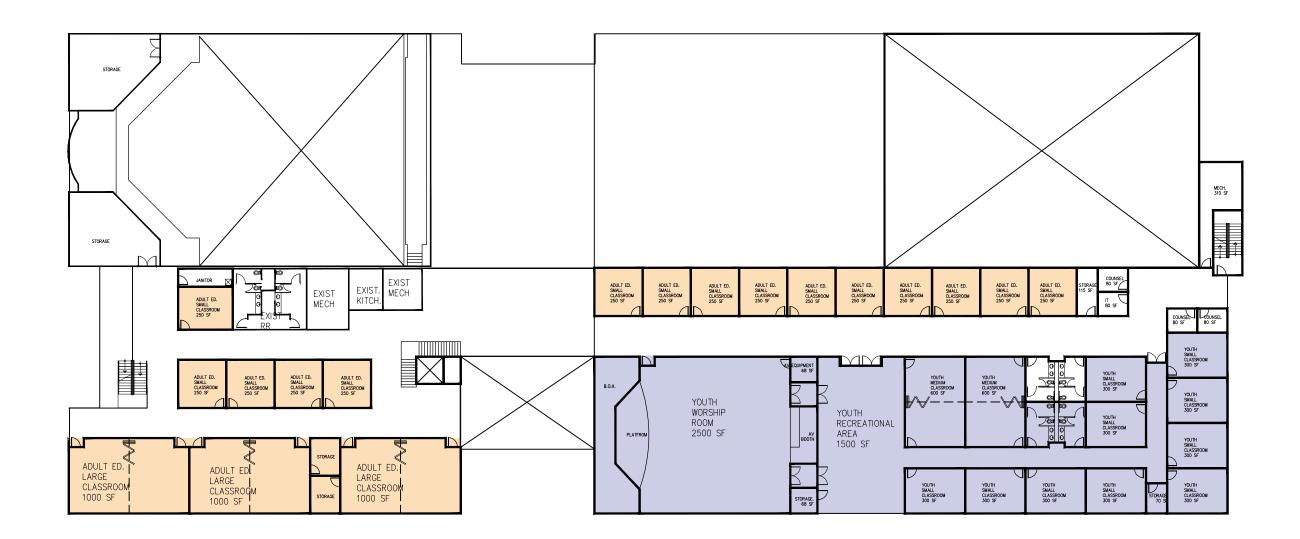






ADJACENCY & CIRCULATION DIAGRAM

EXISTING & NEW FOOTPRINT OVERLAY DIAGRAM



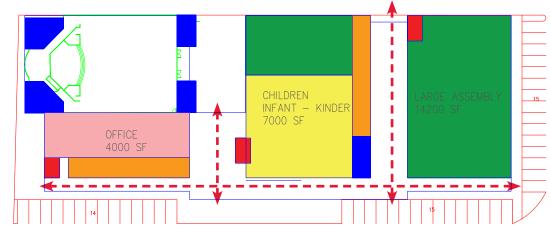
STUDY 1 - LEVEL 2 FLOOR PLAN





EXISTING & NEW FOOTPRINT OVERLAY DIAGRAM

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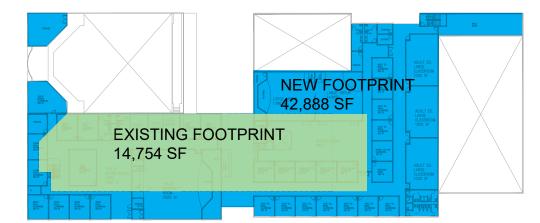


ADJACENCY & CIRCULATION DIAGRAM



5 STUDY 2 - LEVEL 1 FLOOR PLAN 31 HOUSTON CHINESE CHURCH - MASTER PLAN 4-27-2021

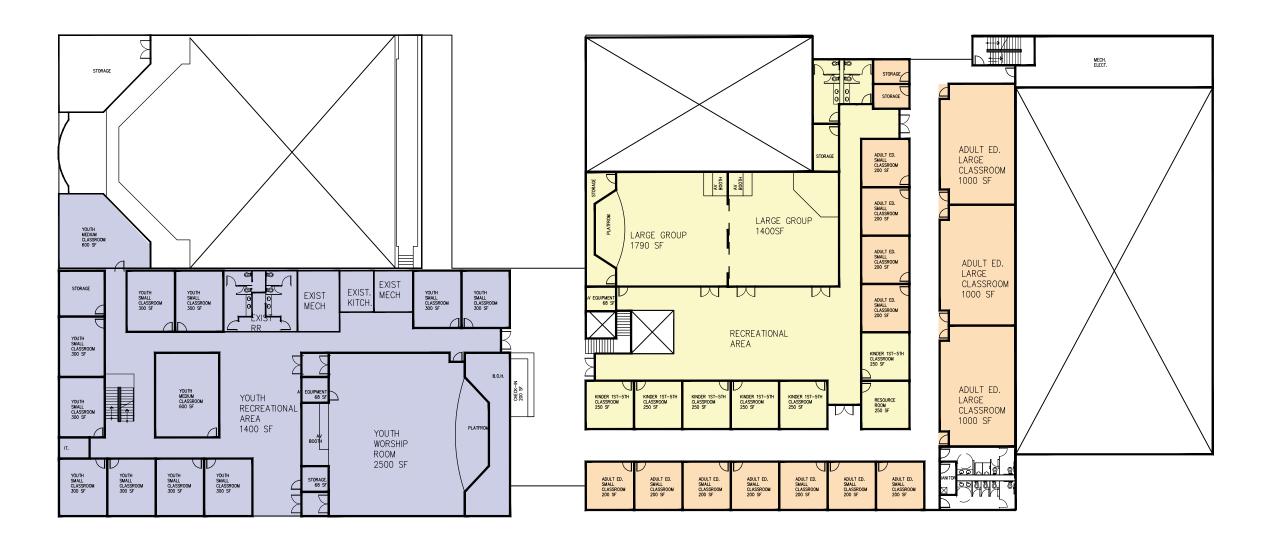




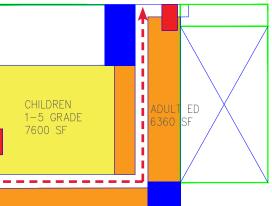
YOUTH MEDIUM CLASSICON .

EXISTING & NEW FOOTPRINT OVERLAY DIAGRAM





STUDY 2 - LEVEL 2 FLOOR PLAN









SCHEME 3A - STREET VIEW RENDERINGS









SCHEME 3B - STREET VIEW RENDERINGS





SCHEME 3B - AERIAL VIEW RENDERINGS

