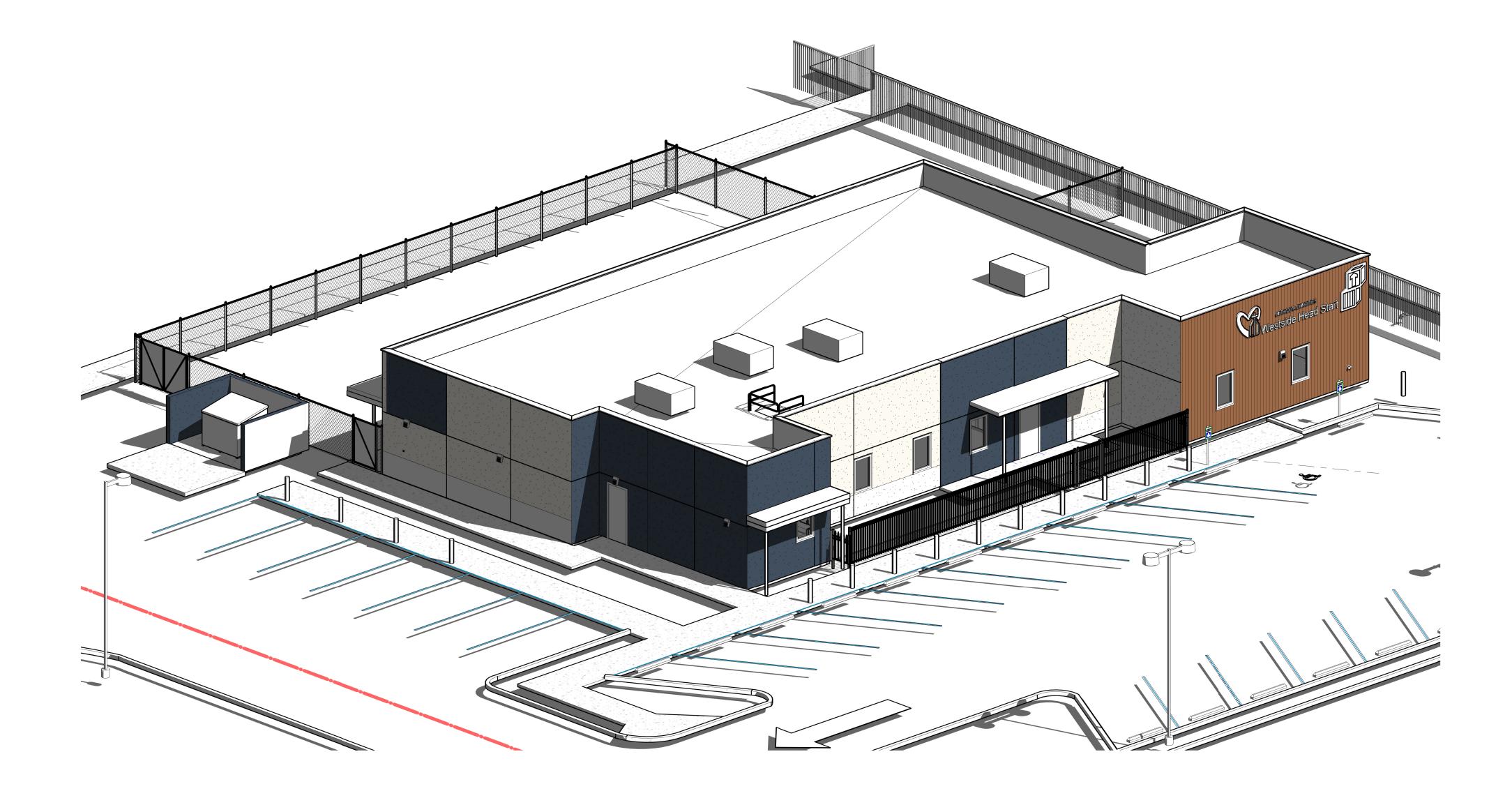
Catholic Charities Westside Head Start - Tolleson 2504 S 91 st Ave, Tolleson, Az 85353



CONSTRUCTION DOCUMENTS 04.21.2023



DEFERRED SUBMITTALS:

SHALL BE RESPONSIBLE FOR REVIEWING AND COORDINATING SUBMITTAL DOCUMENTS PREPARED BY OTHERS, INCLUDING PHASED AND

IN ALL CASES, DEFERRED SUBMITTAL DOCUMENTS SHALL BEAR A STAMP OR NOTE FROM THE ENGINEER AND ARCHITECT OF RECORD INDICATING THAT THEY HAVE REVIEWED THE DOCUMENTS FOR GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING PRIOR TO SUBMITTING THEM TO THE BUILDING INSPECTOR OR THE PLAN REVIEWER:

CODE DATA APPLICABLE BUILDING CODES: 2018 INTERNATIONAL BUILDING CODE 2018 ICC / ANSI A 117.1 2010 ADA GUIDELINES (ADAAG) 2018 INTERNATIONAL ENERGY CONSERVATION CODE 2018 INTERNATIONAL MECHANICAL CODE 2018 INTERNATIONAL FIRE CODE 2017 NATIONAL ELECTRICAL CODE 2018 INTERNATIONAL PLUMBING CODE PROJECT DESCRIPTION: BUILDING CONSTRUCTION TYPE: **VB, SPRINKLERED** OCCUPANCY CLASSIFICATION: E - Preschool ALLOWABLE STORIES / AREA ALLOWABLE AREA PER TABLE 2 STORY / Aa = 38,000 SF506.2: 1 STORY / At = 38,000**BUILDING HEIGHT [ACTUAL]:** 1 STORY / 16'-0" = 5,000 SF **BUILDING AREA [ACTUAL]:** 1ST FLOOR FIRE RATINGS PER IBC 2012 TABLE 601 AND 602 STRUCTURAL FRAME: O HR EXTERIOR BEARING WALLS: O HR O HR INTERIOR BEARING WALLS: 1 HOUR IF $X \le 5$ EXTERIOR NON-BEARING WALLS: PER IBC 2012 TABLE 602 1 HOUR IF $5' \leq X \leq 10'$ 0 HOUR IF 10' ₹ X ₹ 30' 0 HOUR IF X > 30' INTERIOR NON-BEARING WALLS: O HR O HR FLOOR CONSTRUCTION: **ROOF CONSTRUCTION:** O HR **CORRIDOR FIRE RESISTANCE:** N/A (W/SPRINKLERS) FIRE PROTECTION

ABBREVIATIONS

JOINT

MINIMUM EXIT WIDTH SHALL BE 32" CLEAR

FIRE SPRINKLER SYSTEM:

FIRE ALARM:

ADDI	(LVIATION)		
АВ	ANCHOR BOLTS	LAM	LAMINATE
ACT	ACOUSTIC CEILING TILE	MECH	MECHANICAL
AFF	ABOVE FINISH FLOOR	MSN	MASONRY
ABC	AGGREGATE BASE COURSE	MFGR	MANUFACTURER
ALUM	ALUMINUM	MW OTR	MICROWAVE OVER-THE-RANGE
BLDG	BUILDING	MIN	MINIMUM
BS	BASE CABINET, SINGLE	MTL	METAL
BD	BASE CABINET, DOUBLE DOOR	NIC	NOT IN CONTRACT
BSK	BASE CABINET, SINK	NR	NOT RATED
BDR	BASE CABINET, DRAWER	NTS	NOT TO SCALE
BF	BASE CABINET, FILLER	OC	ON CENTER
BSD	BASE CABINET, SINGLE WITH DRAWER	OFO	OVERFLOW OUTLET
BA	BASE CABINET, ADA	OFOI	OWNER FURNISHED, OWNER
BSA	BASE CABINET, SINK ADA		INSTALL
BDA	BASE CABINET, DRAWER ADA	OH DOOR	OVERHEAD DOOR
BF	BASE CABINET, FILLER ADA	PNL	PANEL
BSDA	BASE CABINET, SINGLE WITH DRAWER ADA	RC	RESILIENT CHANNEL
CIP	CAST-IN-PLACE	RD	ROOF DRAIN
Cl	CONTROL JOINT	RDO	ROOF DRAIN OUTLET
C.T.	CERAMIC TILE	REF	REFRIGERATOR
CPT	CARPET	REINF	REINFORCING
CHANS	CHANNELS	RH	RANGE HOOD
CMU	CONCRETE MASONRY UNITS	RM	ROOM
COL	COLUMN	RNG	RANGE
CONC	CONCRETE	RUB	RUBBER
CONT	CONTINUOUS	SHG	SHEATHING
CONTR/GC	CONTRACTOR	SHT MTL	SHEET METAL
DIA	DIAMETER	SIM	SIMILAR
DIM	DIMENSION	SKSK	SINK SKIRT
DW	DISHWASHER	SPA	SPACES
EDF	ELECTRIC DRINKING FOUNTAIN	STL	STEEL
EJ	EXPANSION JOINT	STRUCT	STRUCTURAL
ELEC	ELECTRICAL	STUC	STUCCO
EQUIP	EQUIPMENT	SUSP	SUSPENDED
EXIST	EXISTING	TS	TALL CABINET, SINGLE DOOR
EXP	EXPOSED	TD	TALL CABINET, DOUBLE DOOR
EXT	EXTERIOR	TF	TALL CABINET, FILLER
FBO	FURNISHED BY OWNER	TO	TOP OF
FEC	FIRE EXTINGUISHER CABINET	TOC	TOP OF CONCRETE
FF	FINISH FLOOR	TRD	TOP OF ROOF DECK
FDN	FOUNDATION	TYP	TYPICAL
FF& E	FURNITURE, FIXTURES,	UNO	UNLESS NOTED OTHERWISE
	& EQUIPMENT	US	UPPER CABINET, SINGLE DOOR
FIN	FINISH	UD	UPPER CABINET, DOUBLE DOOR
FOM	FACE OF MASONRY	UF	UPPER CABINET, FILLER
FOS	FACE OF STUD	VCT	VINYL COMPOSITION TILE
GA	GAUGE	VIF	VERIFY IN FIELD
GALV	GALVANIZED STEEL	VAR	VARIES
GLS	GLASS	VERT	VERTICAL
GYP BD	GYPSUM BOARD	VS	VANITY CABINET, SINK
HM	HOLLOW METAL	VSR	VANITY CABINET, SINK RAISED
HORIZ	HORIZONTAL	VDB	VANITY CABINET, DOUBLE BASE
HR	HOUR	VDRB	VANITY CABINET, DRAWER BASE
INT	INTERIOR	VSB	VANITY CABINET, SINGLE BASE
JST BRG	JOIST BEARING	WF	WIDE FLANGE BEAM

WOOD

YES, SYSTEM PER NFPA STD #13

YES

GENERAL NOTES

- 1. PROVIDE PROTECTIVE COATINGS WHERE DISSIMILAR METALS MAKE CONTACT.
- 2. ALL PARTITIONS OCCURRING BETWEEN AREAS HAVING CEILINGS OF EXPOSED CONSTRUCTION, CARRY THE PARTITION FULL HEIGHT TO THE UNDERSIDE OF THE EXPOSED CONSTRUCTION AND CONTINUE THE PARTITION FINISH ON THE EXPOSED CONSTRUCTION SIDE FULL HEIGHT.
- 3. ALL WALL PENETRATION THROUGH EXTERIOR WALL MATERIALS SHALL BE SEALED PER TYPICAL WALL PENETRATION.
- 4. UNLESS NOTED OTHERWISE ELECTRICAL CONDUITS, PLUMBING LINES, AND MECHANICAL PIPING SHALL BE CONCEALED AND FRAMING SHALL BE OF ADEQUATE DIMENSION TO ACCOMPLISH THIS RESULT WITHOUT UNNECESSARY CHANGES IN THE WALL PLANE.
- 5. REMOVE ALL EXISTING MATERIALS, EQUIPMENT, FURNISHINGS, FIXTURES, EARTHWORK, UTILITIES OR OTHER ELEMENTS REQUIRED TO PROPERLY CONSTRUCT NEW WORK. REPAIR THESE SURFACES IF NOT REPLACED BY NEW WORK.
- 6. PROVIDE 2X12 BLOCKING FOR ALL MOUNTED HARDWARE, CABINETRY, HANDRAILS, CHALK BOARDS, OR SIM.
- 7. INTERIOR FINISH SURFACES SHALL NOT BE INSTALLED PRIOR TO HAVING THE BUILDING WEATHER TIGHT.
- 8. INSULATION SHALL EXTEND TO DECK AT ALL EXTERIOR WALLS.
- 9. ALL SURFACES EXPOSED SHALL BE FINISHED AS SPECIFIED, STAINED OR PAINTED.
- 10. ALL MECHANICAL, ELECTRICAL, PLUMBING AND SPECIAL SYSTEMS, PIPING, CONDUIT, EQUIPMENT, DUCT, WIRING, ETC, SHALL RUN CONCEALED BEHIND FINISHED SURFACES INCLUDING THOSE AREAS WHERE A CONCEALED INSTALLATION REQUIRES CUTTING AND PATCHING OF EXISTING SURFACES.
- 11. TYPICAL DETAILS MAY NOT NECESSARILY BE CUT ON PLANS, BUT APPLY UNLESS NOTED OTHERWISE. GENERAL CONTRACTOR SHALL COORDINATE ALL TRADES AND METHODS OF CONSTRUCTION AS REQUIRED FOR COMPLETION OF THE PROJECT WITH THE INTENT OF THESE DOCUMENTS.
- 12. CONSTRUCTION DEBRIS SHALL BE REGULARLY REMOVED ON A CONTINUING BASIS. THE SITE SHALL BE MAINTAINED 'NEAT' IN APPEARANCE.
- 13. VERIFY LOCATIONS OF UTILITIES PRIOR TO EXCAVATION, TRENCHING, ETC. CONTRACTOR SHALL REPAIR OR REPLACE ANY UTILITIES DAMAGED.
- 14. PROVIDE AND COORDINATE BLOCK-OUTS, SLEEVES, INSERTS, BOLTS, PLATES, ETC., FOR ALL TRADES PRIOR TO PLACING CONCRETE OR MASONRY
- 15. EXISTING STRUCTURES, MATERIALS, LANDSCAPING, ETC., THAT ARE TO REMAIN, WHICH ARE DAMAGED IN THE PERFORMANCE OF THE WORK ARE THE CONTRACTOR'S RESPONSIBILITY FOR REPAIR OR REPLACEMENT IN KIND. THE ARCHITECT SHALL BE THE JUDGE OF ACCEPTABILITY OF REPAIR OR REPLACEMENT.
- 16. DO NOT SCALE DRAWINGS, USE DIMENSIONS PROVIDED. CONTRACTOR TO VERIFY ANY DISCREPANCIES WITH ARCHITECT OR ENGINEERS REGARDING DIMENSIONS NOT CALLED OUT ON DRAWINGS PRIOR TO STARTING CONSTRUCTION
- 17. ALL PRODUCTS LISTED BY ICBO/WER NUMBER SHALL BE INSTALLED PER THE REPORT AND MANUFACTURER'S WRITTEN INSTRUCTION, PRODUCT SUBSTITUTIONS SHALL ALSO HAVE ICBO APPROVED AND LISTED BY OTHER NATIONALLY RECOGNIZED TESTING
- 18. ALL WORK SHALL CONFORM TO LOCAL CODES AND ORDINANCES. INSPECTIONS BY LOCAL BUILDING AUTHORITIES SHALL BE COORDINATED IN A TIMELY MANNER.
- 19. IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR UNUSUAL CONDITIONS OF THE PROJECT SITE.
- 20. ALTERNATES INDICATED (IF ANY) ON DOCUMENTS REFER TO ITEMS TO BE FUNDED BY SOURCES OUTSIDE OF THE BASE BID. DEPENDING ON AVAILABLE FUNDING ITEMS MAY BE REMOVED FROM SCOPE OF WORK AT A LATER DATE. DOCUMENTS WILL BE RESUBMITTED TO REFLECT ACTUAL SCOPE OF WORK.
- 21. WHEN NEW UNDERGROUND CONDUITS, WATER LINES AND UTILITIES NEED TO GO BENEATH EXISTING CONCRETE/ASPHALT ROADWAYS, SIDEWALKS, CONCRETE FLOORS OR WALL SYSTEMS NO OVER CUTS SHALL BE ALLOWED. POWER CUTS SHALL BE MADE TO A POINT WHERE THEY WILL BE FINISHED EITHER MANUALLY OR WITH EQUIPMENT THAT WILL PRODUCE A CLEAN SQUARE CUT.

LEGEND OF MATERIALS

Earth	ABC or Gravel	Concrete	Asphalt
Rough Wood	Wood Blocking	Finished Wood	Plywood
Masonry	Foam Insulation	Batt Insulation	Gypsum Wall Board
Steel	Sand	Plastic	Cork

PROJECT DESIGN TEAM

ARCHITECT

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INTERIOR ELEVATIONS

INTERIOR ELEVATIONS

BUILDING ELEVATIONS

ARCHITECTURAL DETAILS

ARCHITECTURAL DETAILS

***FOR REFERRENCE ONLY ***

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WALL SECTIONS

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CIVIL

1 X 6

2 X 6

3 X 6

4 X 6

5 X 6

6 X 6

L2.1

LANDSCAPE

STRUCTURAL

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P2.00

P3.01

P4.01

P7.00

P9.00

E0.00

E0.02

E1.03

E2.00

E3.01

E4.01

E4.11

E7.00

FIRE PROTECTION

ELECTRICAL

PLUMBING

MECHANICAL

Architectural Resource Team, Inc 1055 e indian school rd Phoenix, AZ 85014 V | 602.307.5399

Design Professional in Responsible Charge Doug McCord, AIA, LFA, LEEDap E | dmccord@art-team.com

SURVEY / CIVIL Rick Engineering

2401 W. Peoria Ave, Suite 130 Phoenix, AZ 85029 V | 602.957.3350

Contact: Jeff Hunt E | jphunt@rickengineering.com

LANDSCAPE ARCHITECTURE

McGough-Adamson 535 E McKellips Rd Unit 131 Mesa, AZ 85203 V | 602.997.9093 Contact: Nick Adamson, RLA E | nicka@mg-az.com

STRUCTURAL

E | email

FINISHED FACE DIMENSION

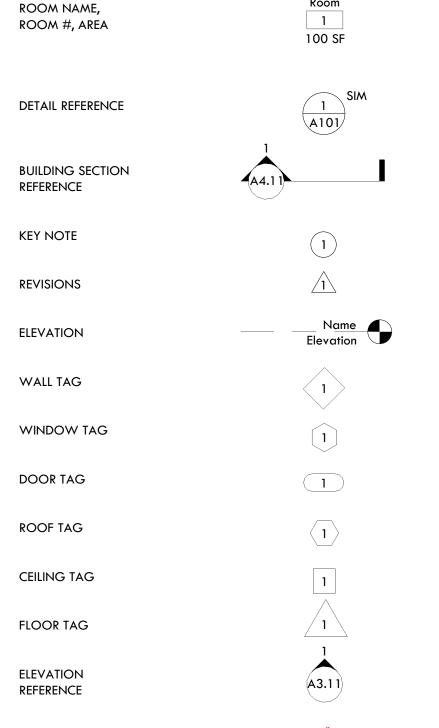
FRAMING FACE DIMENSION

Simply Structural 730 N. 52nd Street, Ste. 105 Phoenix, AZ 85008 V | 602.443.0303 Contact: Dave Schott

E | dschott@simplystructural.com

MECHANICAL/PLUMBING/ELECTRICAL/FIRE PROTECTION Sazan Group 311 W E Veterans Way Suite 102 Tempe, AZ 85281 V | 480.530.9101 Contact: Person

PROJECT LEGEND



PROJECT INFORMATION

Catholic Charities Westside Head Start - Tolleson 2504 S 91st Ave Tolleson, Arizona 85353 Catholic Charities Westside Head Start 7400 W. Olive Avenue Peoria, Az 85345 V | 623.486.9868 Contact: Yatin Dua E | ydau@cc-az.org

E | dmccord@art-team.com

Architectural Resource Team, Inc 1055 E. Indian School Road Phoenix, AZ 85004

V | 602.307.5399 Contact: Doug McCord, Architect, AIA, LFA, LEEDap BD+C/H

DESCRIPTION: A 4,996 square foot wood framed building (6,487 sf with attached shade canopies.) for Catholic Charities Westside Head Start to provide (4) classrooms, support and administrative areas. This will accomodate 68 total children (20 in each classroom and 8 in EHS classroom). The building will have an automatic sprinkler system with fire alarm system w/occupant notification devices. Fire Protection system engineering. In addition to the building, parking will be provided for staff and for parents to park and sign child in and drop off. The fencing will be provided with pedestrian access to the front of the

building and to the public sidewalk and playground area on the east side of the building. Project will require a new sewer line from 91st Ave and a new SRP service Transformer. The site will required a fire hydrant.

GENERAL ZONING ANALYSIS

Total Net: 10.00 acres (435,600sf) SITE AREA: Total Gross: 10.66 acres (464,350sf)

PARCEL NUMBER: 101-14-007D S-1, NO CHANGE EXISTING ZONING:

LOT SALES: ALLOWED PROPOSED BUILDING HT.

60'-0"/2-STORY | 16'-0"/1-STORY

SETBACKS BUILDING: 40' LANDSCAPE:

60,371 sf **EXISTING BUILDING AREA: NEW BUILDING AREA:** 5,000 sf SHADE AREA: 7,88 sf TOTAL 66,858 sf NEW BUIDLING F.A.R.

LOT COVERAGE ALLOWED | PROPOSED 10% | 14%

60,371sf+ 5,788sf/435,600sf=15% **PARKING** 15,730sf New parking.

School Occupancy Requires (1) parking spaces required for every 3 employees (students under 6 years of age). 15 employees/3 = 5

46 Total spaces including TOTAL REQUIRED: 5 SPACES TOTAL PROVIDED: (2) ADA - Accessble

LEGAL DESCRIPTION

PART OF THE SOUTHEAST QUARTER OF SECTION 16, TOWNSHIP 1 NORTH, RANGE 1 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA, MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT THE SOUTHEAST CORNER OF SAID SECTION 16; THENCE NORTH 01°36'40" EAST, ALONG THE EAST SECTION LINE OF SAID SECTION 16, A DISTANCE OF 760.90 FEET; THENCE SOUTH 89°45'51" WEST, A DISTANCE OF 33.02 FEET TO THE WEST RIGHT-OF-WAY LINE OF 91ST AVENUE AND THE TRUE POINT OF BEGINNING; THENCE CONTINUING SOUTH 89°45'51" WEST, A DISTANCE OF 844.60 FEET; THENCE NORTH 00°13'48" WEST, A DISTANCE OF 524.18 FEET THENCE NORTH 89°45'51" EAST, A DISTANCE OF 861.45 FEET TO THE SAID WEST RIGHT-OF-WAY LINE OF 91ST AVENUE; THENCE SOUTH 01°36'40" WEST, A DISTANCE OF 524.45 FEET TO THE TRUE POINT OF BEGINNING; EXCEPT THE EAST 22 FEET THEREOF AS CONVEYED TO THE CITY OF PHOENIX BY QUIT-CLAIM DEED RECORDED IN INSTRUMENT NO. 2005-1552374; AND ALSO EXCEPT ALL MINERALS. ORES, AND METALS OF EVERY KIND AND CHARACTER AND ALL COAL, ASPHALTUM, OIL, GASES, FERTILIZERS, FOSSILS, AND OTHER LIKE SUBSTANCES IN OR UNDER SAID LAND AS RESERVED BY THE STATE OF ARIZONA IN THE PATENT TO SAID LAND RECORDED IN BOOK 130 OF DEEDS, PAGE 239; AND ALSO EXCEPT ALL MINERALS, OIL AND GAS AND HYDROCARBON SUBSTANCES UNDERLYING SAID LAND AS RESERVED IN DEED RECORDED IN DOCKET 1952, PAGE 192, RECORDS OF MARICOPA COUNTY, ARIZONA.

W Buckeye Rd **VICINITY MAP**

arities ead **(1)** olic Sid

URA

SOURCE

ON

S

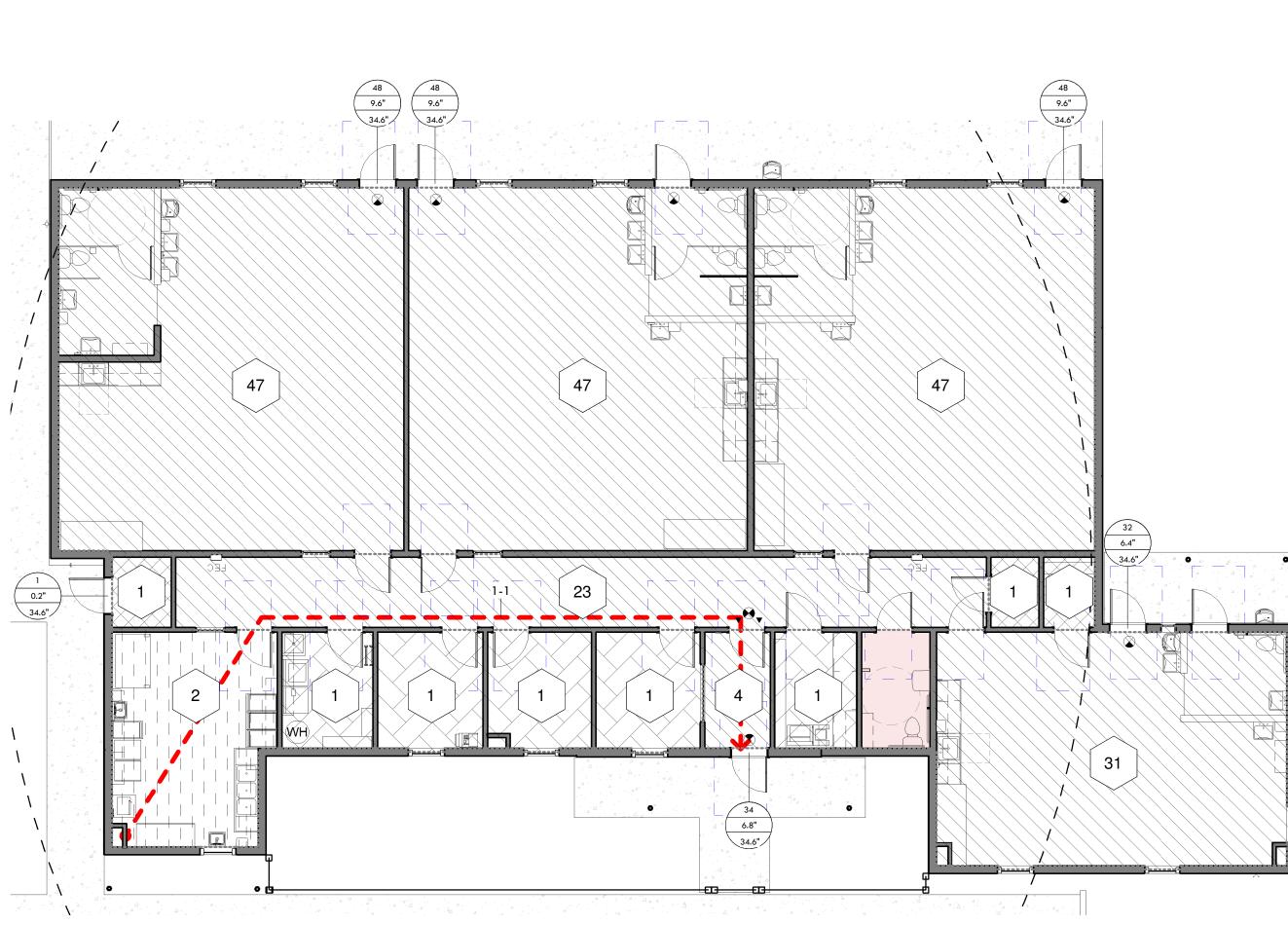
CONSTRUCTION DOCUMENTS

Revision Schedule Date Description 08.02.23 City of Phoenix 08.23.23 City of Phoenix Comments

ART PROJECT NO. 22025 04.21.2023



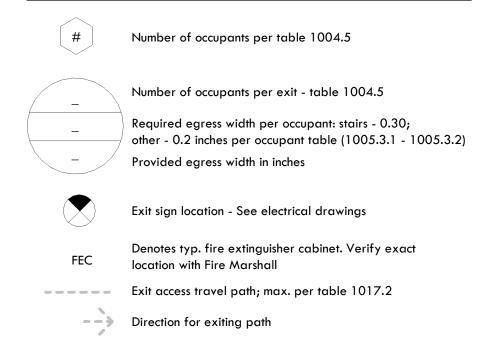
PROJECT INFORMATION



Path ID Travel Distance			
1-1	74' - 3 11/16	"	
To	otal Occupan	cy Schedule	
To	otal Occupand	cy Schedule Calculated Occupancy	
	•	•	

Area Occupancy Type	Area	Area Per Occupant	Basis of Area Calculation	Calculated Occupanc
ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	93 SF	300 SF	GROSS	3
BUSINESS AREAS	445 SF	<varies></varies>	GROSS	5
EDUCATIONAL - CLASSROOM AREA	3916 SF	20 SF	NET	199
KITCHENS - COMMERCIAL	252 SF	200 SF	GROSS	2
UNOCCUPIED ACCESSORY AREAS	64 SF	0 SF	*ONLY FOR AREA CALCULATIONS	0
	4769 SF	<u> </u>	1	209

EGRESS LEGEND



Catholic Charities Head tside West

CONSTRUCTION DOCUMENTS

ARCHITECTURAL RESOURCE TEAM

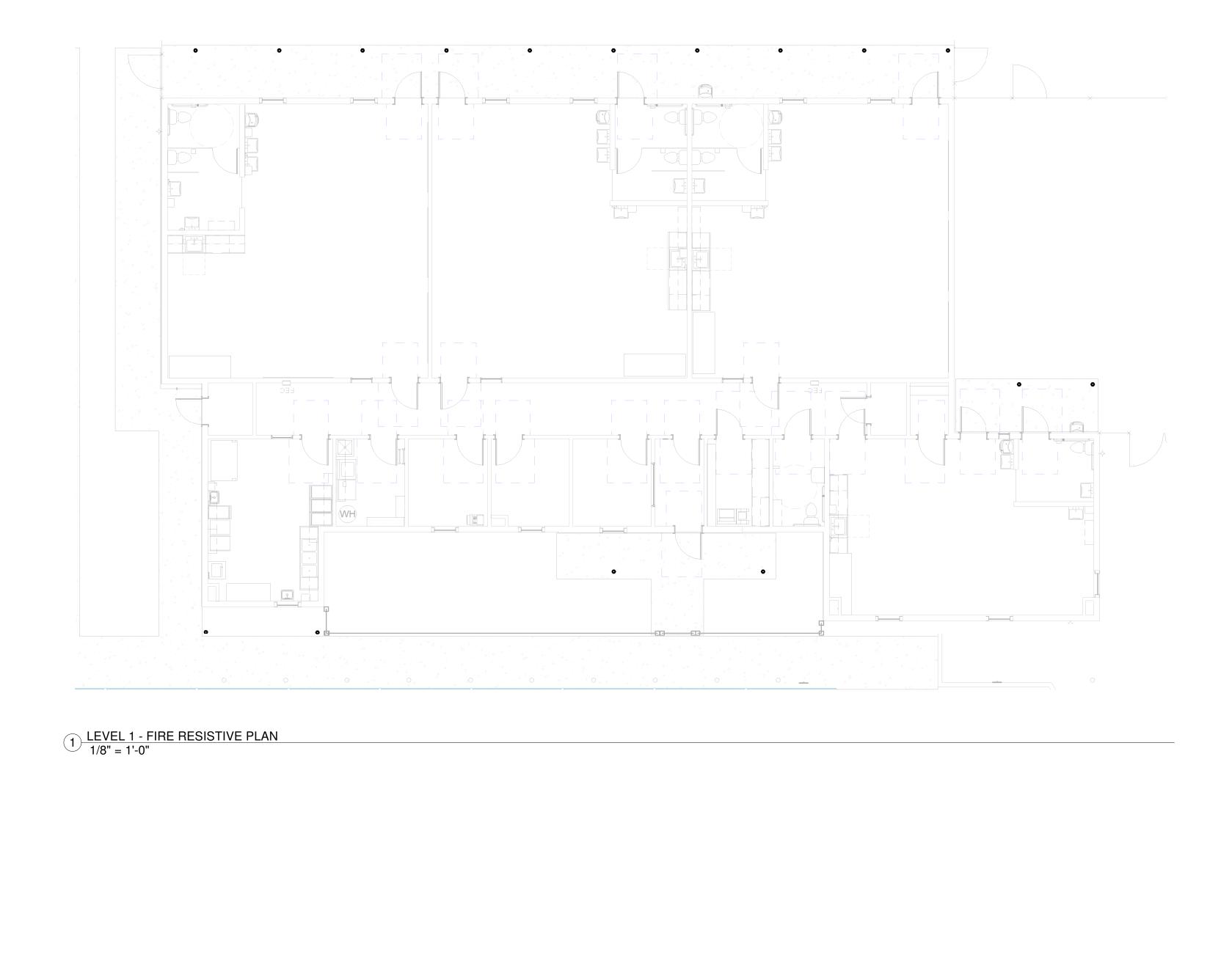
Revision Schedule No. Date Description

22025 04.21.2023



CODE PLAN

A0.22



2504 S 91 st Ave, Tolleson, Az 85353

EXTERIOR WALL BOTH SIDES

Catholic Charities Westside Head Start - Tolleson

CONSTRUCTION DOCUMENTS

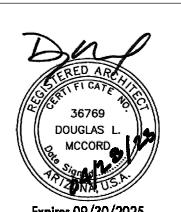
Revision Schedule

No. Date Description

22025

04.21.2023

ART PROJECT NO
DATE



FIRE RESISTIVE PLAN

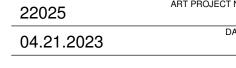
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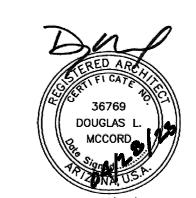
Son

Charities

olic

side Head







COM*check* Software Version 4.1.5.5 **Envelope Compliance Certificate**

Project Information

2018 IECC Energy Code:

Catholic Charities Westside Head Start Project Title:

Tolleson, Arizona Location:

Climate Zone:

Project Type: **New Construction**

Vertical Glazing / Wall Area:

Construction Site: 2504 S 91st Ave Tolleson, AZ 85353

Owner/Agent: Catholic Charities Westside Head

7400 W. Olive Avenue

Peoria, AZ 85345 yday@cc-az.org

Designer/Contractor: Doug McCOrd Architectural Resource Team 1055 E Indian School Road Phoenix, AZ 85004 dmccord@art-team.com

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed Enhanced Interior Lighting Controls, 1.0 credit

Building Area	Floor Area
1-School/University : Nonresidential	4996

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U- Factor _(a)
Floor 1: Slab-On-Grade:Unheated, [Bldg. Use 1 - School/University] (c)	345			0.730	0.730
Roof 1: Attic Roof with Wood Joists, [Bldg. Use 1 - School/University]	4758	38.0	8.0	0.022	0.027
<u>NORTH</u>					
Exterior Wall 1: Wood-Framed, 16" o.c., [Bldg. Use 1 - School/University]	1243	19.0	3.8	0.052	0.064
Window 1: Metal Frame:Operable, Perf. Specs.: Product ID solarban 60 optigray, SHGC 0.29, [Bldg. Use 1 - School/University] (b)	81			0.300	0.650
Door 1: Insulated Metal, Swinging, [Bldg. Use 1 - School/University]	126			0.330	0.610
EAST Exterior Wall 4: Wood-Framed, 16" o.c., [Bldg. Use 1 - School/University] Window 3: Metal Frame:Fixed, Perf. Specs.: Product ID solarban 60 optigray + clear, SHGC 0.25, [Bldg. Use 1 - School/University] (b)	791 13	19.0	3.8	0.052 0.300	0.064 0.500
SOUTH Exterior Wall 2: Wood-Framed, 16" o.c., [Bldg. Use 1 -	1243	19.0	3.8	0.052	0.064
School/University] Window 2: Metal Frame:Operable, Perf. Specs.: Product ID solarban 60 optigray + clear, SHGC 0.25, [Bldg. Use 1 - School/University] (b)	94			0.300	0.650
Door 2: Glass (> 50% glazing):Metal Frame, Entrance Door, Perf. Specs.: Product ID solarban 60 optigray + clear, SHGC 0.25, [Bldg. Use 1 - School/University] (b)	21			0.300	0.830
<u>WEST</u>					

Project Title:	Catholic Charities Westside Head Start	Report date:	03/14/23
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Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U- Factor _(a)
Exterior Wall 3: Wood-Framed, 16" o.c., [Bldg. Use 1 - School/University]	789	19.0	3.8	0.052	0.064
Door 3: Insulated Metal, Swinging, [Bldg. Use 1 - School/University]	21			0.330	0.610

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.

(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.

(c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

Envelope PASSES: Design 22% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Date Name - Title

Doug McCord

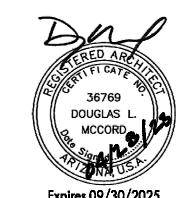


04/21/2023

Project Title: Catholic Charities Westside Head Start Data filename: \\art-fs\redirected\$\adewangan\Documents\COMcheck\CC - Tolleson.cck

Report date: 03/14/23

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Catholic Charities Westside Head Start - Tolleson

CONSTRUCTION DOCUMENTS

Revision Schedule

No. Date Description

22025

04.21.2023

ART PROJECT NO.

DATE



TYPICAL MOUNTING HEIGHTS

A0.91

LIGHT POLE & POWER POLE

PROJECT INFORMATION

Catholic Charities Westside Head Start - Tolleson 2504 S 91st Ave Tolleson, Arizona 85353 Catholic Charities Westside Head Start 7400 W. Olive Avenue Peoria, Az 85345 V | 623.486.9868 Contact: Yatin Dua E | ydau@cc-az.org

Architectural Resource Team, Inc 1055 E. Indian School Road

Phoenix, AZ 85004 V | 602.307.5399

Contact: Doug McCord, Architect, AIA, LFA, LEEDap BD+C/H E | dmccord@art-team.com

DESCRIPTION: A 4,996 square foot wood framed building (6,487 sf with attached shade canopies.) for Catholic Charities Westside Head Start to provide (4) classrooms, support and administrative areas. This will accomodate 68 total children (20 in each classroom and 8 in EHS classroom). The building will have an automatic sprinkler system with fire alarm system w/occupant notification devices. Fire Protection system engineering.

In addition to the building, parking will be provided for staff and for parents to park and sign child in and drop off. The fencing will be provided with pedestrian access to the front of the building and to the public sidewalk and playground area on the east side of the building. Project will require a new sewer line from 91st Ave and a new SRP service Transformer. The site will required a fire hydrant.

GENERAL ZONING ANALYSIS

Total Net: 10.00 acres (435,600sf) Total Gross: 10.66 acres (464,350sf)

101-14-007D

EXISTING ZONING: S-1, NO CHANGE

NO

ALLOWED PROPOSED 60'-0"/2-STORY | 16'-0"/1-STORY

LANDSCAPE: EXISTING BUILDING AREA: 60,371 sf

NEW BUILDING AREA: 5,000 sf 7,88 sf TOTAL 66,858 sf NEW BUIDLING F.A.R. .008

ALLOWED | PROPOSED 10% | 14%

60,371sf+ 5,788sf/435,600sf=15%

15,730sf New parking.

School Occupancy Requires (1) parking spaces required for every 3 employees (students under 6 years of age). 15 employees/3 = 5

TOTAL REQUIRED: 5 SPACES TOTAL PROVIDED: 46 Total spaces including (2) ADA - Accessble

SITE PLAN NOTES

1. DEVELOPMENT AND USE OF THIS SITE WILL CONFORM WITH ALL APPLICABLE CODES

2. ALL NEW OR RELOCATED UTILITIES WILL BE PLACES UNDERGROUND. 3. STRUCTURES AND LANDSCAPING WITHIN A TRIANGLE MEASURED 10' BACK FROM THE PROPERTY LINE AND 20' ALONG THE PROPERTY LINE ON EACH SIDE OF THE DRIVEWAY'S

ENTERANCES WILL BE MAINTAINED AT A MAXIMUM HEIGHT OF 3'. 4. STRUCTURES AND LANDSCAPING WITHIN A TRIANGLE MEASURING 33' X 33' ALONG

THE PROPERTY LINES WILL BE MAINTAINED AT A MAXIMUM HEIGHT OF 3'

5. ANY LIGHTING WILL BE PLACED SO AS TO DIRECT LIGHT AWAY FROM THE ADJACENT RESIDENTIAL DISTRICTS AND WILL NOT EXCEED ONE FOOT CANDLE AT THE PROPERTY LINE. NO NOISE, ODOR OR VIBRATION WILL BE EMITTED SO THAT IT EXCEEDS THE GENERAL LEVEL OF NOISE, ODOR OR VIBRATION EMITTED BY USES OUTSIDE OF THE SITE. 6. OWNERS OF PROPERTY ADJACENT TO PUBIC RIGHT-OF-WAY WILL HAVE THE RESPONSIBILITY FOR MAINTAINING ALL LANDSCAPING WITHIN THE RIGHT-OF-WAY IN ACCORDANCE WITH APPROVED PLANS.

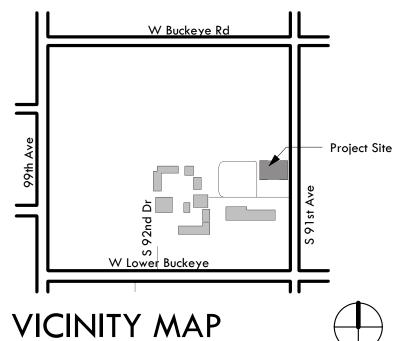
7. ALL ROOFTOP EQUIPMENT AND SATELLITE DISHES SHALL BE SCREENED TO THE HEIGHT OF THE TALLEST EQUIPMENT.

8. ALL SERVICE AREAS SHALL BE SCREENED TO CONCEAL TRASH CONTAINERS, LOADING DOCKS, TRANSFORMERS, BACKFLOW PREVENTERS AND OTHER MECHANICAL OR ELECTRICAL EQUIPMENT FROM EYE LEVEL ADJACENT TO ALL PUBLIC STREETS. 9. "ALL SIGNAGE REQUIRES SEPARATE REVIEWS, APPROVALS, AND PERMITS. NO SIGNS

DATE 04/21/2023

I CONSENT TO THE REPRODUCTION OF THIS SITE PLAN FOR THE PURPOSE OF FUTURE AMENDMENTS PROVIDED THAT IF MODIFICATIONS ARE MADE, THE ARCHITECTS WHO MAKE SUCH CHANGES ASSUME FULL RESPONSIBILITY AND LIABILITY FOR THE PLAN.

PRINTED NAME OF COPYRIGHT OWNER: DOUG MCCORD.

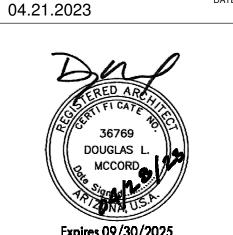


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CONSTRUCTION **DOCUMENTS**

Revision Schedule Date Description 08.02.23 City of Phoenix Comments

ART PROJECT NO. 22025



SITE PLAN

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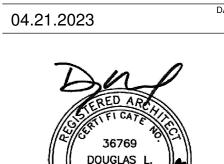
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4 Date 4 Owner Comments





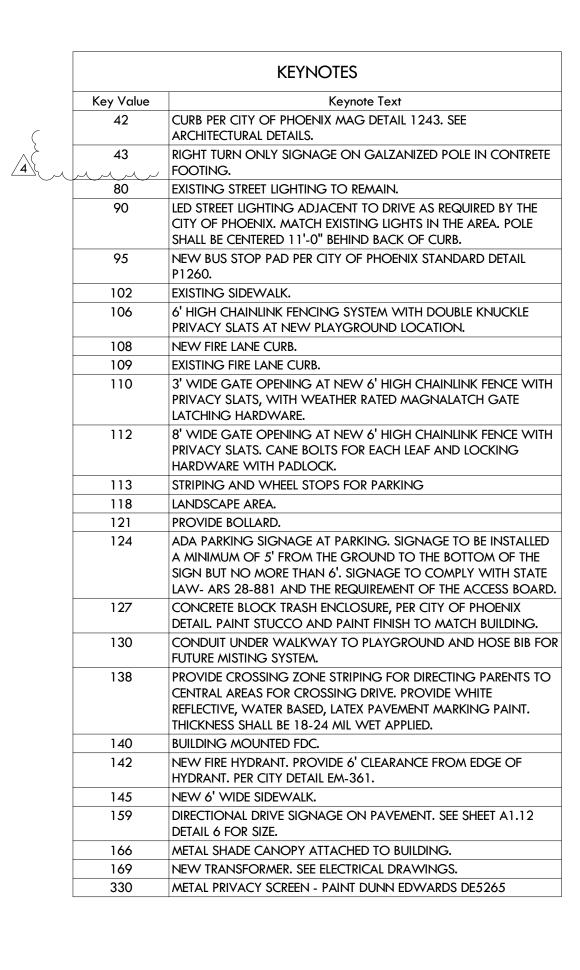
ENLARGED SITE PLAN

NEW PARKING **NEW TRASH ENCLOSURE** /330 90'-4 3/8" A3.11 2 **A**3.11) 90 Proposed Preschool _5,000 sq ft 24'-11 7/8" 24'-3 1/2" EXISTING FIRE HYDRANT @ 145' -APN: 101-14-007D USE: CHARTER SCHOOL 4' MIN 20'-0" - EXISTING SIDEWALK EXISTING PEDESTRIAN GATE EXISTING VEHICULAR

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1 ENLARGED SITE PLAN
1" = 20'-0"

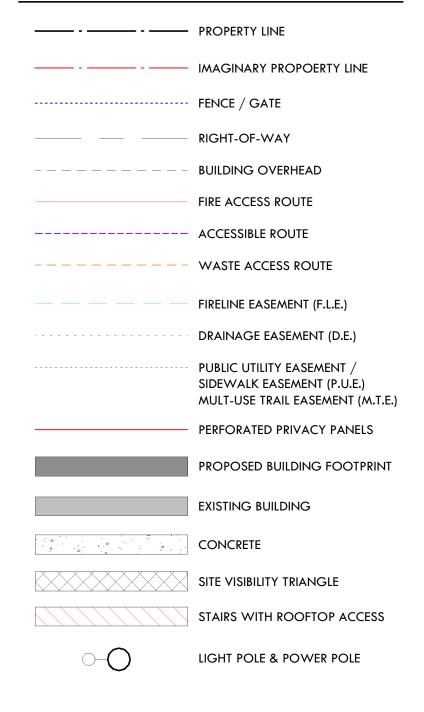
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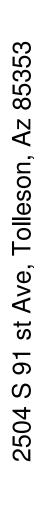


GENERAL NOTES

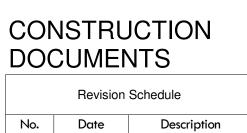
- SEE CIVIL DRAWINGS FOR OFF SITE SEWER SCOPE.
- ANY CHANGE OF USE OR OCCUPANCY OF ANY BUILDING OR BUILDINGS, INCLUDING ADDITIONS THERETO REQUIRING MORE PARKING, SHALL NOT BE PERMITTED UNTIL SUCH ADDITIONAL PARKING SPACES AS REQUIRED BY THIS
- CHAPTER ARE FURNISHED. PER THE CITY OF PHOENIX. ALL PARKING STRIPING AND MARKINGS SHALL BE WATER BASED, LATEX, PAVEMENT MARKING PAINT. APPLIED TO A THICKNESS OF 18-24 MIL WET
- APPLIED. UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL COMPLY WITH THE CITY OF PHOENIX SIGNING AND
- STRIPING NOTES. CHAIN LINK FENCES WITH DOUBLE KNUCKLE PRIVACY SLATS AND MAGNA-LOCK SAFETY LOCKS AT EACH SINGLE GATE. PADLOCK CLOSURES AT EACH
- PRIVACY PANELS ATTACH TO FENCE ALONG 91ST AVE. TO BE PAINTED TO MATCH EXISTING WROUGHT IRON FENCE.

SITE PLAN LEGEND





Son olle Charities Head tside olic Cath



ARCHITECTURAL RESOURCE TEAM

Standared regulatory

sign reflective 0.080

aluminum white blue letters on white

backgrund.

Recommended

1/4" letters.

lettering size 2" x

-3/4" x 3/32" LETTERS.

pole, pinned to sleeve

Grade (at parking lot

Concrete footing, TYP.

Top View N.T.S.

mounted in concrete.

surface).

Securely mount sign on a galv

RESERVED

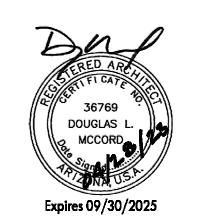
PARKING

PHOENIX CITY COD SEC. 36-149 CITY OF PHOENIX

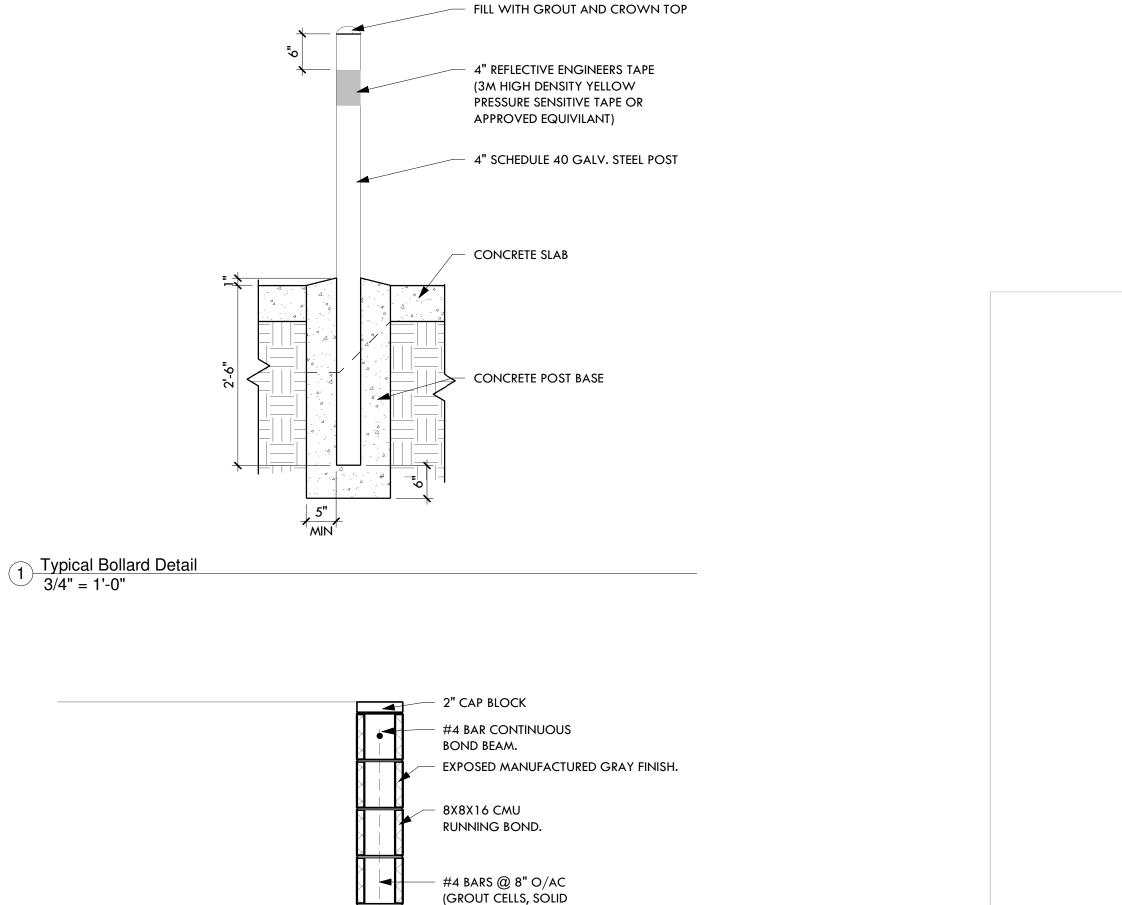
FRONT VIEW_

5 100 - Accessible Sign - Typical (Phoenix) 3/4" = 1'-0"

ART PROJECT NO. 22025 04.21.2023



SITE DETAILS



FULL HEIGHT.)

PROVIDE 4" OPENING AT LOW POINT WHERE

FLOOR SLOPES BACK TO

BIN RECEPTACLE, SPACE

AT 10'-0" O.C.

CONTINUOUS.

SIDE ELEVATION

BOLLARD PER FIGURE E.

EXPANSION JOINT.

6" THICK CONCRETE SLAB.

2 Typical Trash Enclosure Wall 3/4" = 1'-0"

FRONT ELEVATION

3 100 - Bicycle U Rack 1" = 1'-0"

SMALL WALL MOUNT LANTERN

PHONE: (440) 653-5500 Avon Lake, OH 44012

FRONT OF EA. PARKING SPACE

indicated on site plan. The bottom of the van accessible sign shall be no less than 36" above finish grade. D0289-10

NOTES: 54 INCHES ABOVE FINISH GRADE. SIGNS SHALL BE PROPERLY CENTERED WITHIN THE PARKING SPACE.

ALL LETTERING SERIES "C", GREEN COLOR.



Steel Tubing on steel tube base

Refer to plan for finish material

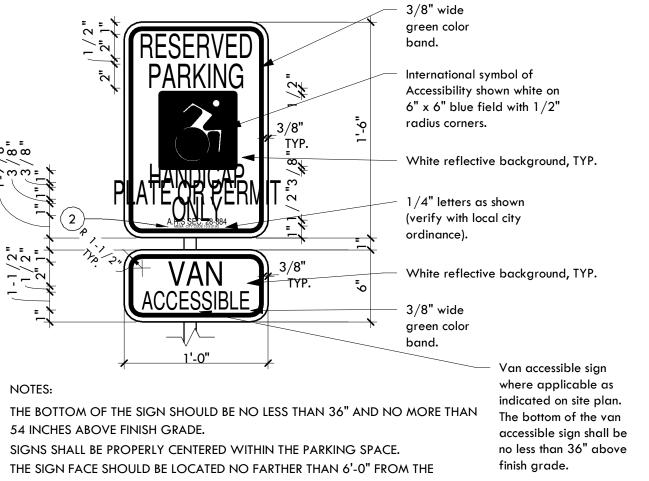
8" Dia. x 12" concrete footing

Compacted sub grade, Typ.

Finish grade

Anchor tab



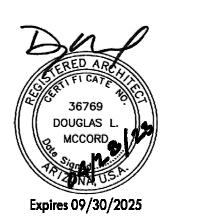


4 100 - Accessible Parking Sign - Typical (Phoenix) 1 1/2" = 1'-0"

Catholic Charities

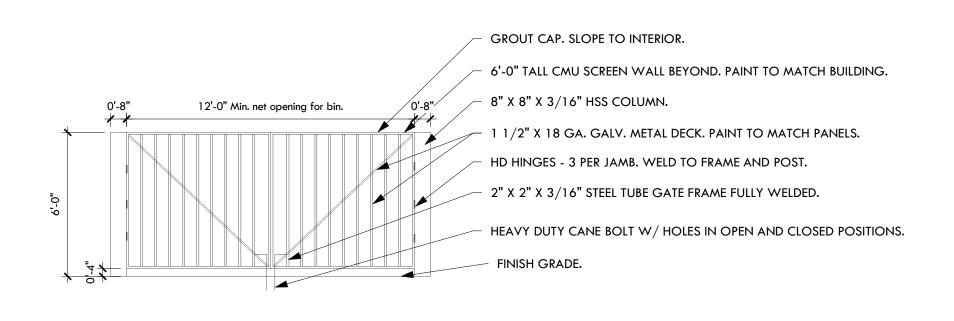
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West

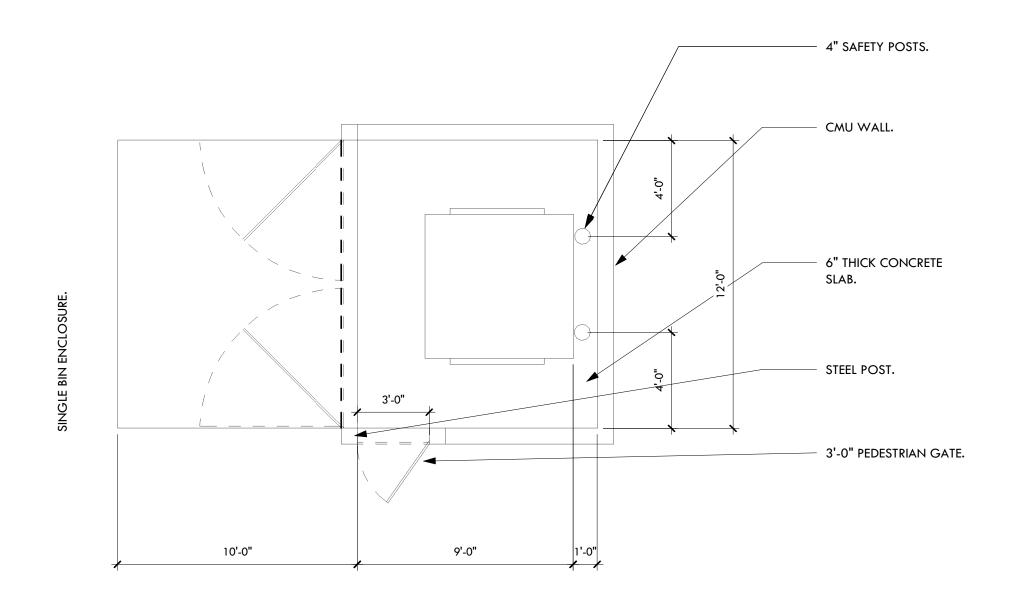


SITE DETAILS

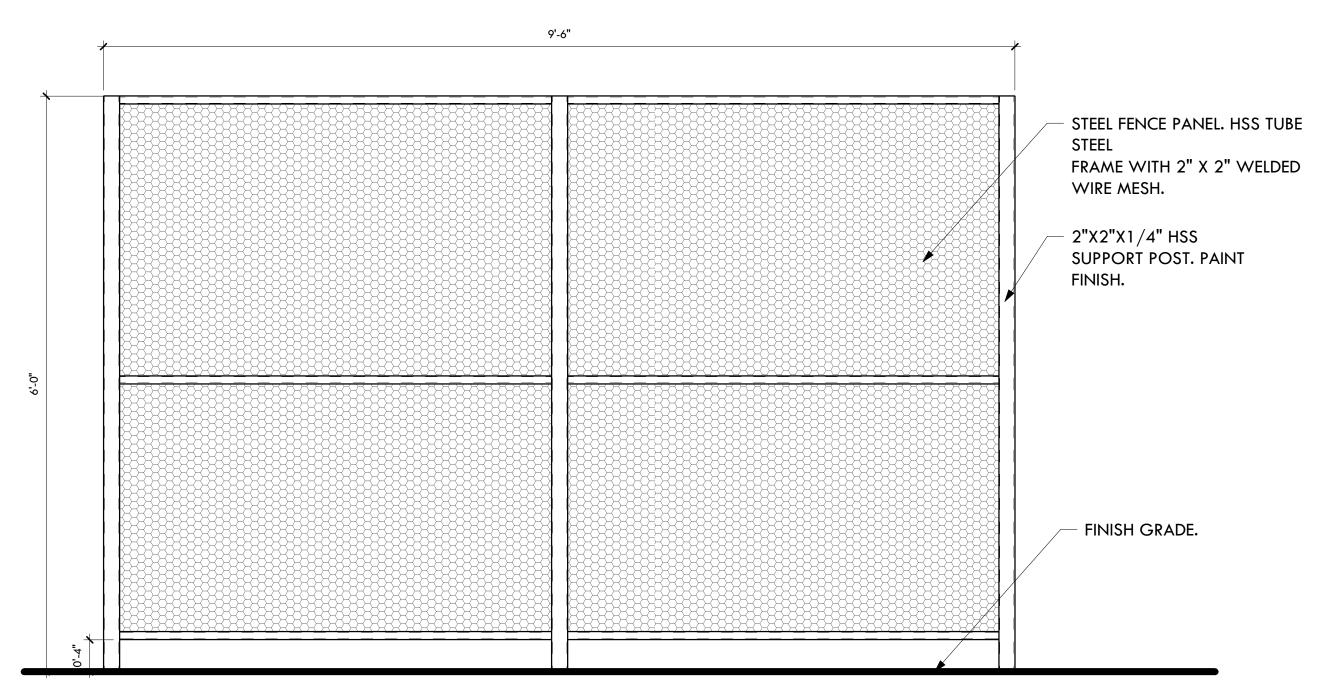
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3 100 - Trash Enclosure Gate Single 1/4" = 1'-0"



2 100 - Trash Enclosure Single W/Recycling 1/4" = 1'-0"



1 100 - Screen Elevation 1" = 1'-0"

KEYNOTES

STAINLESS STEEL WORK BENCH WITH TOPSHELF AND UNDERSHELF.

STAINLESS STEEL 3-COMPARTMENT SINK WITH DRAINBOARDS EACH SIDE.

DRINKING FOUNTAIN. CHILD MOUNTING HT. 22" TO TOP OF RIM.

8W X 4H WHITE FRP WITH 1" PAINTED WOOD FRAME AT WALL.

TOUCHLESS PAPER TOWEL DISPENSER, PROVIDED BY OWNER.

215 6W X 4H WHITE FRP WITH 1" PAINTED WOOD FRAME AT WALL.

125 CHANGING TABLE PROVIDED BY OWNER.

CONTRACTOR FURNISHED WASHER/DRYER

OWNER PROVIDED FREE STANDING CARTS. (3)

HT 22" TO TOP OF RIM. PROVIDE TOUCHLESS FAUCET.

FLOOR MOUNTED MOP SINK.

COMMERCIAL REFRIGERATOR.

PROVIDE TOUCHLESS FAUCET.

CHILD HEIGHT TOILET @ 10"H.

50 GALLOW WATER HEATER.

TOUCHLESS SOAP DISPENSER.

OUTSIDE OF STRUCTURAL WALL.

COPIER/PRINTER, ADA ACCESSIBLE.

WHITE FRP W/ TRIM.

404 RECESSED LOCKABLE HOSE RIB

GENERAL NOTES

R-38 AT ROOF.

WALL MOUNTED ROOF ACCESS LADDER.

WITH MATCHING OR CLEAR 100% SILICONE.

OPEN CABINET WITH SHELF MOUNTED AT 5'8".

CONTRACTOR PROVIDED COMMERCIAL MICROWAVE.

PROVIDE MINIMUM R VALUES OF R-30 AT FLOOR, R-19 AT EXTERIOR WALLS, AND

PROVIDE DROPS FOR OWNER PROVIDED BUILDING WIDE INTERCOM SYSTEM.
PROVIDE DATA DROPS FOR ALL CLASSROOMS, OFFICES, TRAINING AND WORK

PROVIDE FLOOR DRAINS AT EACH TOILET ROOM, KITCHEN AND UTILITY ROOM.

PROVIDE ROOF MOUNTED "TRANE" MECHANICAL SYSTEMS, CURBING AND

PROVIDE FRP AT ALL WALLS WITH HANDWASHING AND INTERIOR DRINKING

O. CONTRACTOR WILL INSTALL OWNER PROVIDED PAPER TOWEL AND SOAP DISPENERS

Width

0' - 4 3/4"

0' - 4 1/8"

0' - 6 3/4"

PER THE IBC 1010.1.9 DOOR OPERATIONS. EXCEPT AS SPECIFICALLY PERMITTED BY

THIS SECTION, EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE

Constructio

n Type

Comments

PROVIDE CHILD HT. TOILETS AND LAVATORIES AT CLASSROOM TOILETS. PROVIDE

FLASHING. PROVIDE REMOTE THERMOSTAT SENSORS IN CLASSROOMS WITH 7 DAY

PROVIDE KEYED LOCKS ON ALL LOWER CASEWORK AND COT STORAGE CLOSET.—

PROVIDE DROPS FOR INTERIOR AND EXTERIOR BUILDING SECURITY CAMERA SYSTEM

PROVIDE ALL CODE REQUIRED INTERIOR AND EXTERIOR SIGNAGE.

ONE ADA ACCESSIBLE TOILET PER CLASSROOM TOILET ROOM.

PROGRAMMABLE THERMOSTAT CONTROLS IN DIRECTORS OFFICE.

PROVIDE FRP 4' H WITH TRIM IN LAUNDRY AND ALL TOILET ROOMS.

PROVIDE FRP ON ALL WALLS FULL WALL HEIGHT IN FOOD PREP ROOM.

WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.

FOUNTAINS TO 4' OR PONY WALL CAPS WHERE APPLICABLE.

AT EACH LAVATORY OR HAND WASHING SINK.

P. PROVIDE HORIZONAL BLINDS IN EACH WINDOW FRAME.

Fire Rating

1-HR (if req'd)

ALL FLUSH LEVERS SHALL BE ON THE OPEN SIDE OF TOILET.

TO BE PROVIDED AND INSTALLED BY OWNER.

FLOOR DRAIN.

COT STORAGE. PROVIDE KEYED LOCKS.

Keynote Text

WALL MOUNTED PORCELIN HAND WASHING SINK. CHILD MOUNTING HEIGHT

WALL MOUNTED PORCELIN HAND WASHING SINK. ADULT MOUNTING HEIGHT.

STAINLESS STEEL HAND WASHING SINK. ADULT MOUNTING HEIGHT. PROVIDE TOUCHLESS FAUCET. PROVIDE SIDE SPLASH GARDS AT KITCHEN LOCATION.

STORAGE SHELVING. HEAVY DUTY ALUMINUM DOUBLE SLOTTED STANDARDS AND BRACKETS, KNAPE AND VOGT 85/185 SERIES (OR APPROVED EQUAL) WITH WHITE MELIMINE OVER 3/4" HIGH DENSITY PARTICLE BOARD, 15" DEEP SHELVES.

STAINLESS STEEL SINGLE BOWL KITCHEN SINK WITH TOUCHLESS KITCHEN

SOLID SURFACE COUNTER WITH MATCHING BACK SPLASH. SEAL ALL SEAMS

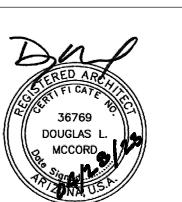
FRAMED OUT CORNERS TO ALLOW FOR ROOF DRAINS TO COME DOWN

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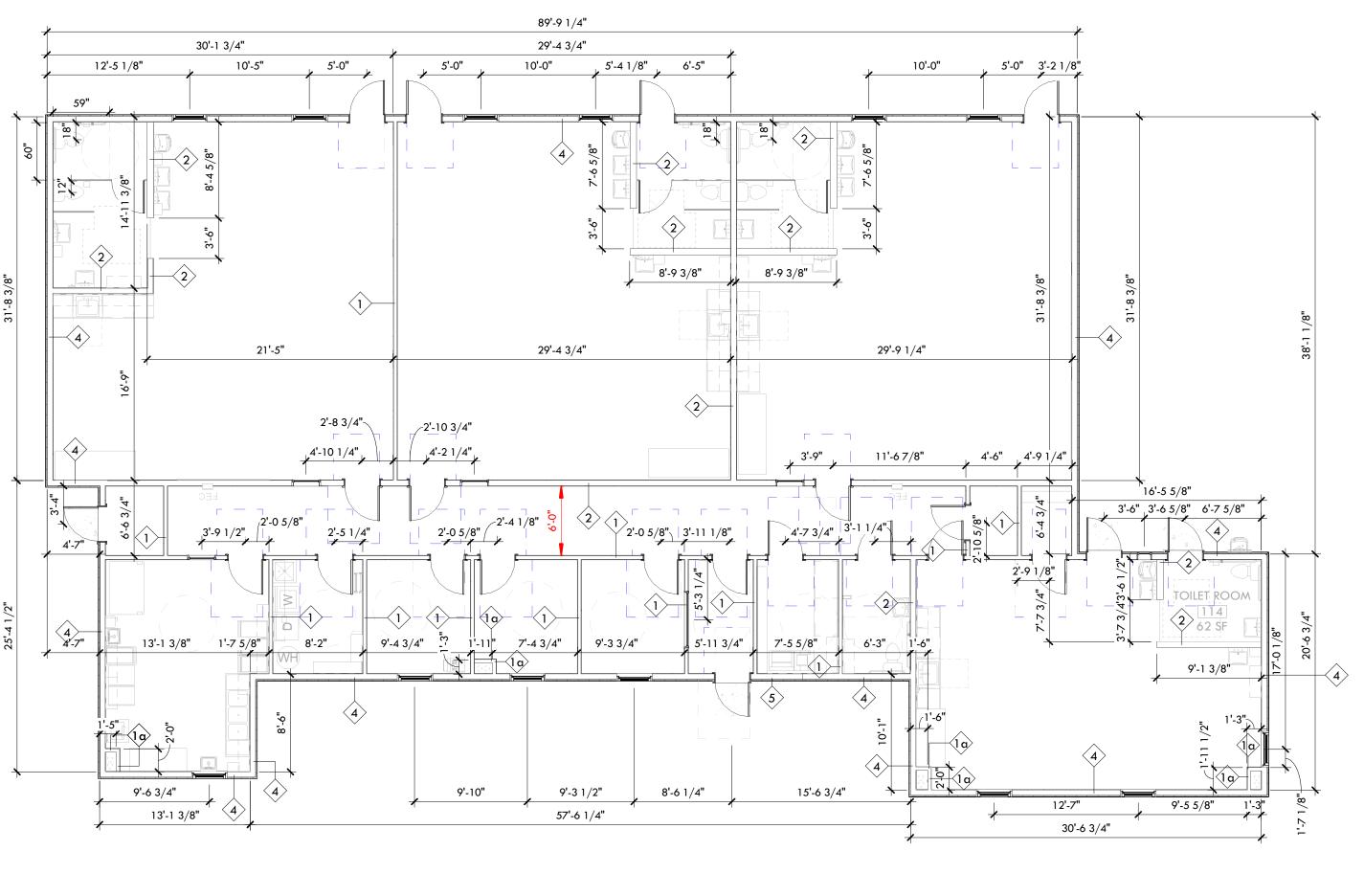
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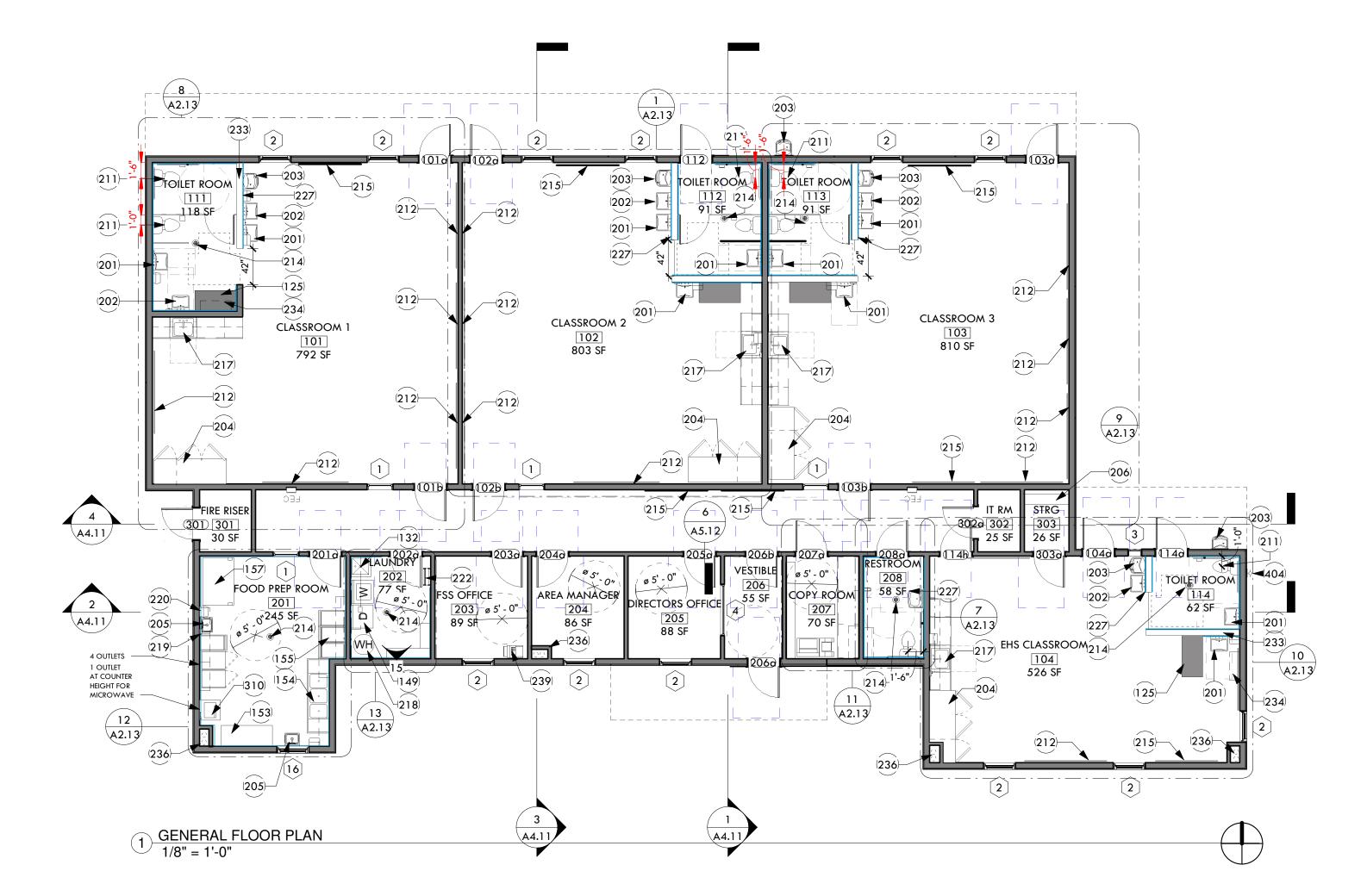




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2 DIMENSIONED PLAN
1/8" = 1'-0"



Wall Schedule - Interior

	Wall Schedule - Exterior				
Type Mark	Description	Fire Rating	Width	Construction Type	Comments
3	8" x 8"x 16" CMU wall running bond	2-HR (if req'd)	0' - 7 5/8"		
	3/8" lath and stucco section, 1" rigid insulation, moisture barrier, $1/2$ " Sheathing 2 x 6 stud wall fully insulated where needed, $5/8$ " type X gyp. bd.		0' - 8"		
	1 $1/2$ " metal panel, 1" rigid insulation, moisture barrier, $1/2$ " Sheathing, 2 x 6 stud wall fully insulated where needed, $5/8$ " type X Gyp. Bd.		0' - 9 1/8"		

Description

5/8" type X gyp. bd., 2 x 4 stud wall fully insulated where needed, 5/8" type X gyp bd.

5/8" type X Gyp. Bd., 2 x 6 stud wall fully insulated where needed, 5/8" type X Gyp Bd.

5/8" type X Gyp. Bd., 2 x 4 stud wall fully insulated where need

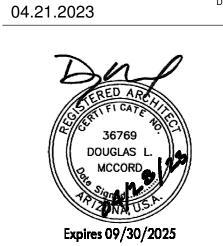
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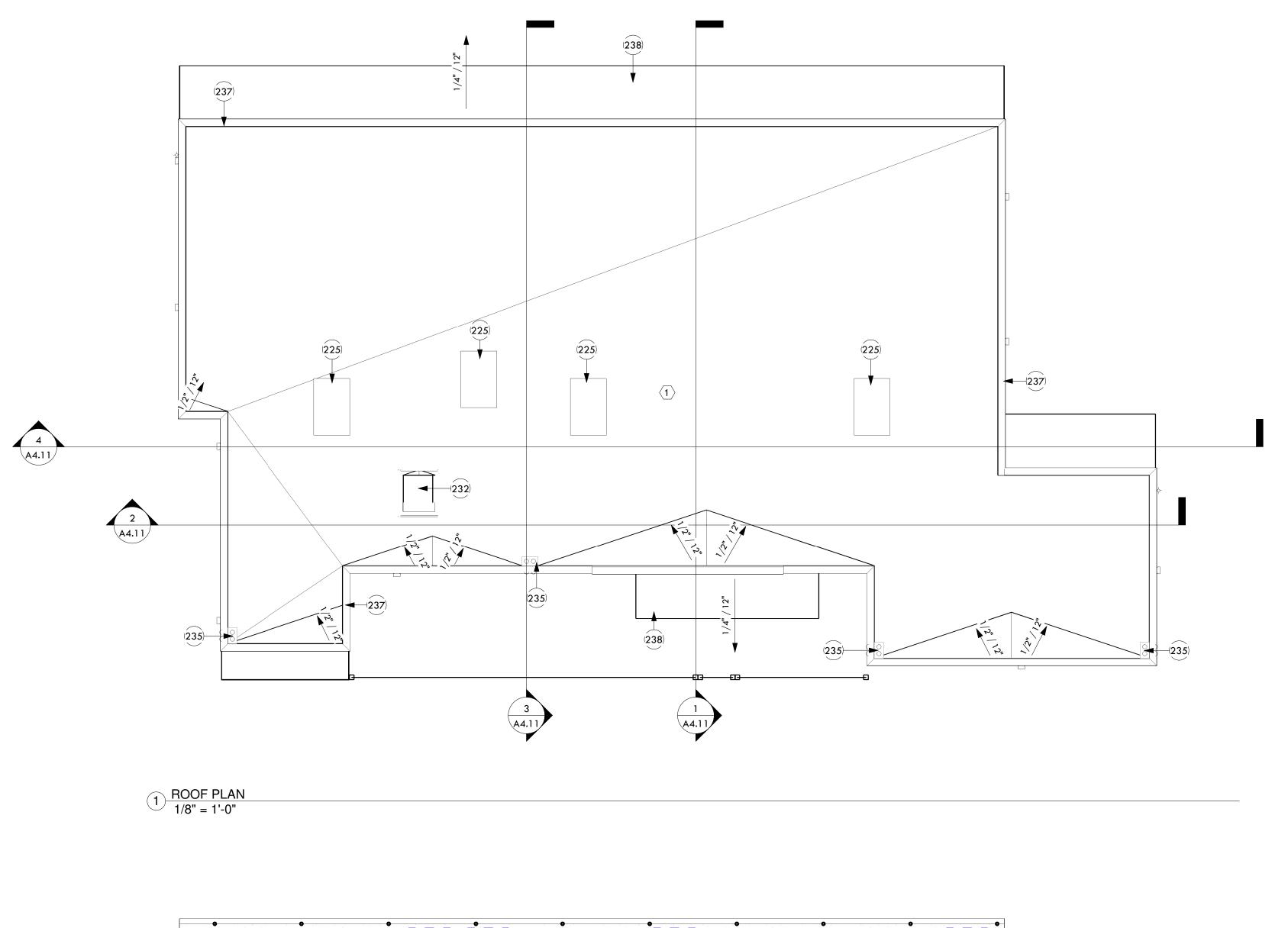
Head

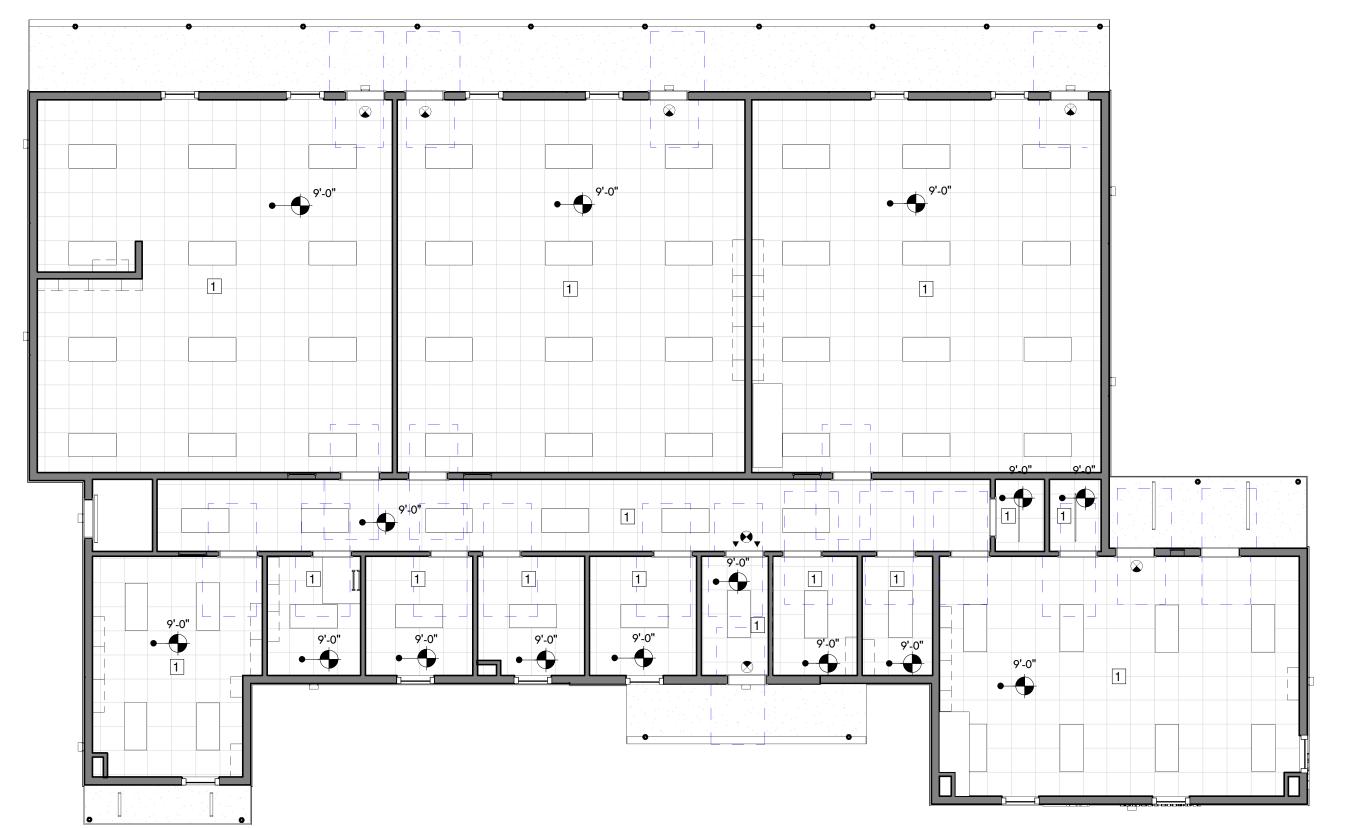
No. Date Description



ROOF PLAN - RCP

Δ2 12





2 LEVEL 1 CEILING PLAN 1/8" = 1'-0"

	KEYNOTES		
Key Value	Keynote Text		
225	MECHANICAL UNIT - SEE MECHANICAL		
232	ROOF HATCH ACCESS LADDER		
235	INTERNAL ROOF DRAIN & OVERFLOW WITH 3" PIPE		
237	METAL FINISH PARAPET CAP		
238	OVERHANG SHADE CANOPY		

RCP PLAN NOTES

- 1. EXIT SIGNS AND EMERGENCY LIGHTING TO BE PROVIDED WHERE REQUIRED PER IBC 2018.
- 2. ACOUSTIC PANEL CEILING SYSTEMS ARE CENTERED IN ROOMS UNLESS NOTED OTHERWISE.
- GYP. BD CEILINGS IN LIVING SPACES TO BE ATTACHED TO BOTTOM OF WOOD TRUSS, UNLESS OTHERWISE NOTED. COORDINATE WITH STRUCTURAL TO GET MAXIMUM CEILING HEIGHT.
- 4. SUSPEND CEILING HANGERS FROM BUILDING'S STRUCTURAL MEMBERS, PLUMB AND FREE FROM CONTACT WITH INSULATION OR OTHER OBJECTS WITHIN THE CEILING PLENUM. SPLAY HANGERS ONLY WHERE REQUIRED AND, IF PERMITTED WITH FIRE-RESISTANCEORATED CEILING, TO MISS OBSTRUCTIONS; OFFSET RESULTING HORIZONTAL FORCES BY BRACING, COUNTERSPLAYING, OR OTHER EQUALLY EFFECTIVE MEANS. WHERE WIDTH OF DUCTS AND OTHER CONSTRUCTION WITHIN CEILING PLENUM PRODUCES HANGER SPACING THAT INTERFERE WITH LOCATION OF
- HANGERS, USE TRAPEZES OR EQUIVALENT DEVICES.

 INSTALL SUSPENSION SYSTEM RUNNERS SO THEY ARE SQUARE AND SECURELY INTERLOCKED WITH ONE ANOTHER. REMOVE AND REPLACE DENTED, BENT, OR KINKED MEMBERS.
- 6. NON ABSORBENT (MOISTURE RESISTANT) DENSGLASS OR EQUAL TO BE PROVIDED IN ALL WET AREAS.
- 7. VERIFY LOCATION OF ALL MECHANICAL VENTS WITH MECHANICAL DRAWINGS.
- 8. GYPSUM BOARD FINISH LEVELS: FINISH PANELS TO LEVELS INDICATED BELOW AND ACCORDING ASTM C840: LEVEL 4: AT PANEL SURFACES THAT
- WILL BE EXPOSED TO VIEW UNLESS OTHERWISE INDICATED.

 INSTALL ACOUSTICAL PANELS WITH UNDAMAGED EDGES AND FIT
 ACCURATELY INTO SUSPENSION SYSTEM RUNNERS AND EDGE MOLDINGS.
- SCRIBE AND CUT PANELS AT BORDERS AND PENETRATIONS TO PROVIDE A NEAT, PRECISE FIT.

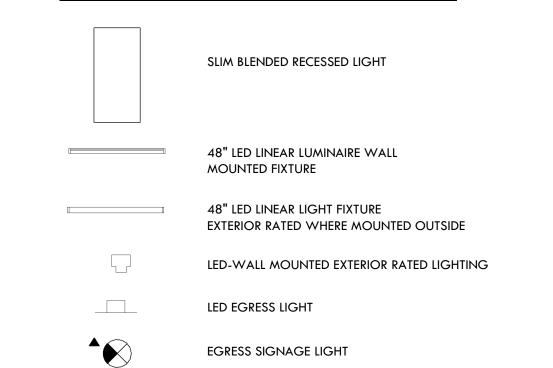
 10. COMPARE REFLECTED CEILING PLANS WITH ELECTRICAL LIGHTING PLANS, MECHANICAL SUPPLY, RETURN AND EXHAUST PLANS. REPORT ANY
- OMISSIONS OR INCONSISTENCIES TO THE ARCHITECT.

 11. COORDINATE GYPSUM BOARD FURR DOWN HEIGHTS WITH FULL HEIGHT CABINETS AND INTERIOR ELEVATIONS. REPORT ANY INCONSISTENCIES TO
- THE ARCHITECT.

 12. SPRINKLER HEAD LOCATIONS NOT SHOWN ON ARCHITECTURAL REFLECTED

 CENTRAL PROPERTY OF THE PRO
- CEILING PLANS. BUILDING IS TO BE FULLY SPRINKLERED PER NFPA 13 AND OWNER'S INSURANCE REQUIREMENTS.
- 13. ACCESS PANELS SHALL BE FIRE RATED EQUAL TO THE RATING OF THE CEILING IN WHICH THEY OCCUR.
 14. RECESSED LIGHTS SHALL MEET N1102.4.4 LEAKAGE RATE AND BE IC RATED.

CEILING PLAN LEGEND



	Ceiling Schedule	
Type Mark	Description	Comments
1	2' x 2' Tegular Acoustic tile ceiling on metal grid supported by wire hangers.	

Roof Schedule			
Type Mark	Description	Comments	
	Corrugated metal roof		
1	Open web truss per structural with R-38 spray foam, 1/2" sheathing, TPO roof system.		

Floor Schedule		
Type Mark	Description	Comments
1	Vapor barrier under interior spaces, 4" Concrete Slab on Grade	

KEYNOTES

CHANGING TABLE PROVIDED BY OWNER.

CONTRACTOR FURNISHED WASHER/DRYER

OWNER PROVIDED FREE STANDING CARTS. (3)

TO TOP OF RIM. PROVIDE TOUCHLESS FAUCET.

COT STORAGE. PROVIDE KEYED LOCKS.

GC TO PROVIDE CAMBRO HOT BOXES, FOUR STACKABLE.

STAINLESS STEEL WORK BENCH WITH TOPSHELF AND UNDERSHELF. STAINLESS STEEL 3-COMPARTMENT SINK WITH DRAINBOARDS EACH SIDE.

DRINKING FOUNTAIN. CHILD MOUNTING HT. 22" TO TOP OF RIM.

8W X 4H WHITE FRP WITH 1" PAINTED WOOD FRAME AT WALL.

6W X 4H WHITE FRP WITH 1" PAINTED WOOD FRAME AT WALL.

TOUCHLESS PAPER TOWEL DISPENSER, PROVIDED BY OWNER.

ADA GRAB BARS, SEE ACCESSORY LEGEND FOR MOUNTING HEIGHT.

FLOOR MOUNTED MOP SINK.

COMMERCIAL REFRIGERATOR.

TOUCHLESS FAUCET.

WHITE FRP W/ TRIM.

OWNER PROVIDED COPIER.

CHILD HEIGHT TOILET @ 10"H.

50 GALLOW WATER HEATER. TOUCHLESS SOAP DISPENSER.

WALL MOUNTED ROOF ACCESS LADDER.

MATCHING OR CLEAR 100% SILICONE.

OPEN CABINET WITH SHELF MOUNTED AT 5'8". HIGH EFFICIENCY FLOOR MOUNTED TOILET.

HEAVY DUTY WALL MOUNTED MOP/BROOM HOLDER. CONTRACTOR PROVIDED COMMERCIAL MICROWAVE.

PLASTIC LAMINATE COUNTER TOP WITH 4" SPLASH.

PROVIDE ALL CODE REQUIRED INTERIOR AND EXTERIOR SIGNAGE.

ONE ADA ACCESSIBLE TOILET PER CLASSROOM TOILET ROOM.

PROGRAMMABLE THERMOSTAT CONTROLS IN DIRECTORS OFFICE.

PROVIDE FRP 4' H WITH TRIM IN LAUNDRY AND ALL TOILET ROOMS.

WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.

PROVIDE FRP ON ALL WALLS FULL WALL HEIGHT IN FOOD PREP ROOM.

FOUNTAINS TO 4' OR PONY WALL CAPS WHERE APPLICABLE.

AT EACH LAVATORY OR HAND WASHING SINK.

PROVIDE HORIZONAL BLINDS IN EACH WINDOW FRAME.

ALL FLUSH LEVERS SHALL BE ON THE OPEN SIDE OF TOILET.

TO BE PROVIDED AND INSTALLED BY OWNER.

PROVIDE DROPS FOR OWNER PROVIDED BUILDING WIDE INTERCOM SYSTEM.

PROVIDE DATA DROPS FOR ALL CLASSROOMS, OFFICES, TRAINING AND WORK

PROVIDE FLOOR DRAINS AT EACH TOILET ROOM, KITCHEN AND UTILITY ROOM. PROVIDE CHILD HT. TOILETS AND LAVATORIES AT CLASSROOM TOILETS. PROVIDE

PROVIDE ROOF MOUNTED "TRANE" MECHANICAL SYSTEMS, CURBING AND

PROVIDE FRP AT ALL WALLS WITH HANDWASHING AND INTERIOR DRINKING

PER THE IBC 1010.1.9 DOOR OPERATIONS. EXCEPT AS SPECIFICALLY PERMITTED BY

THIS SECTION, EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE

CONTRACTOR WILL INSTALL OWNER PROVIDED PAPER TOWEL AND SOAP DISPENERS

PROVIDE DROPS FOR INTERIOR AND EXTERIOR BUILDING SECURITY CAMERA SYSTEM

FLASHING. PROVIDE REMOTE THERMOSTAT SENSORS IN CLASSROOMS WITH 7 DAY

PROVIDE KEYED LOCKS ON ALL LOWER CASEWORK AND COT STORAGE CLOSET.—

Keynote Text

WALL MOUNTED PORCELIN HAND WASHING SINK. CHILD MOUNTING HEIGHT HT 22"

STAINLESS STEEL HAND WASHING SINK. ADULT MOUNTING HEIGHT. PROVIDE TOUCHLESS FAUCET. PROVIDE SIDE SPLASH GARDS AT KITCHEN LOCATION.

WALL MOUNTED LAVATORY, ADULT MOUNTING HT 34" TO TOP OF RIM. PROVIDE

STAINLESS STEEL SINGLE BOWL KITCHEN SINK WITH TOUCHLESS KITCHEN FAUCET.

SOLID SURFACE COUNTER WITH MATCHING BACK SPLASH. SEAL ALL SEAMS WITH

WALL MOUNTED PORCELIN HAND WASHING SINK. ADULT MOUNTING HEIGHT. PROVIDE

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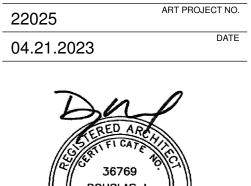
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09.06.23 City of Phoenix

Comments

Comments



ENLARGED PLANS

A2.13



(212)

/214)─[□]

(233)

(227)—

(A2.14)

8 ENLARGED CLASSROOM 1 ROOM 101

1/4" = 1'-0"

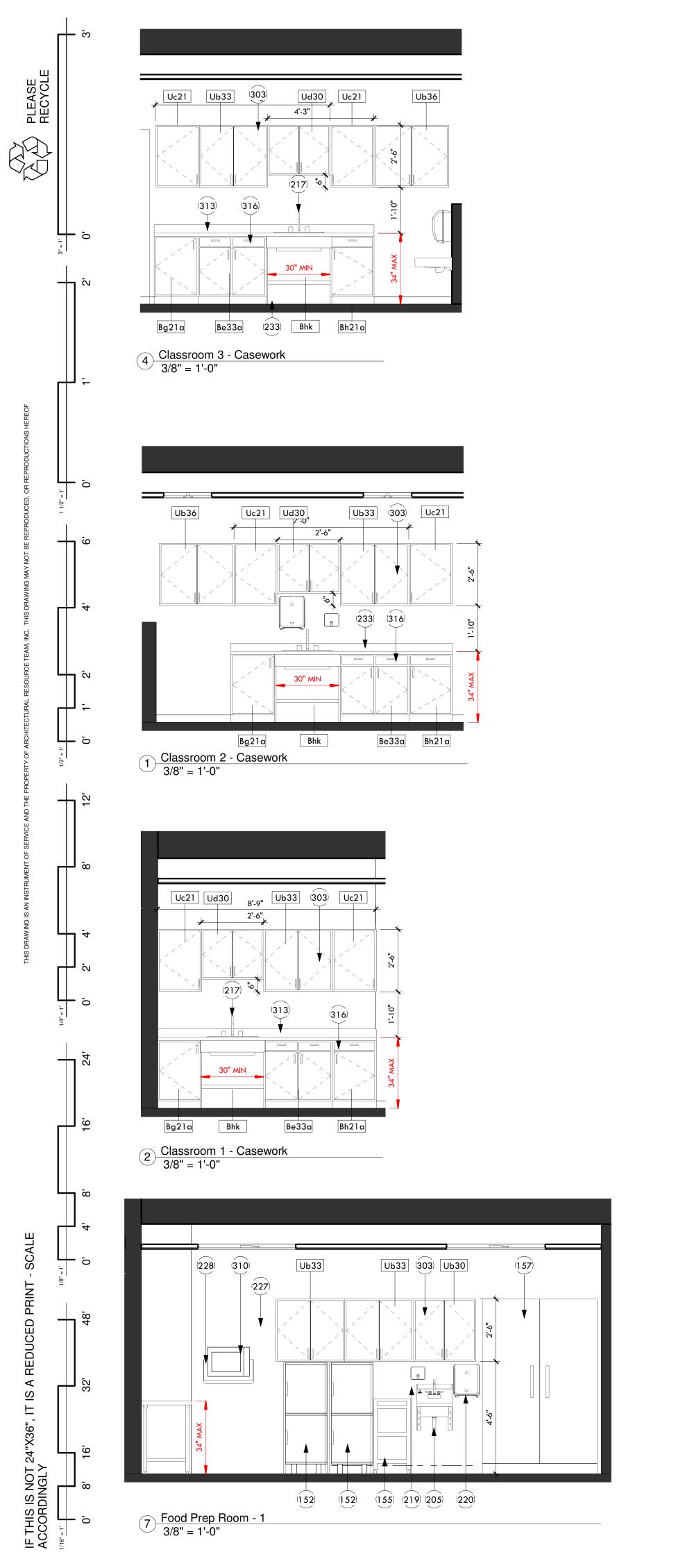
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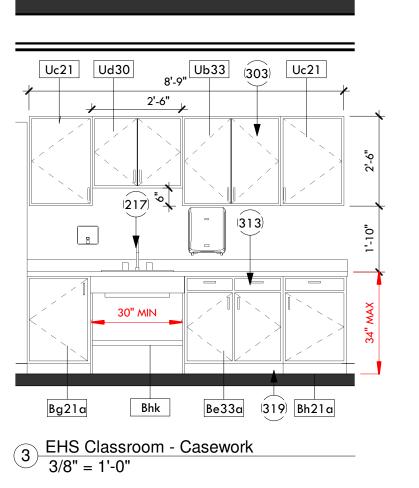
◄ (212)

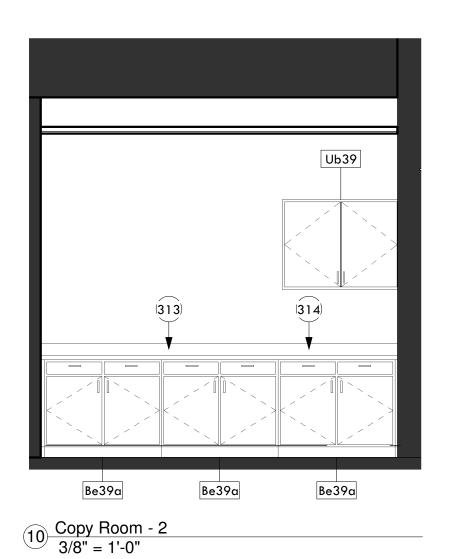
◄─(212)

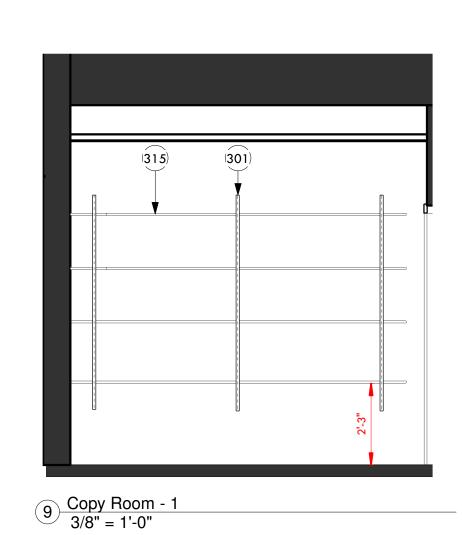
1/4" = 1'-0"

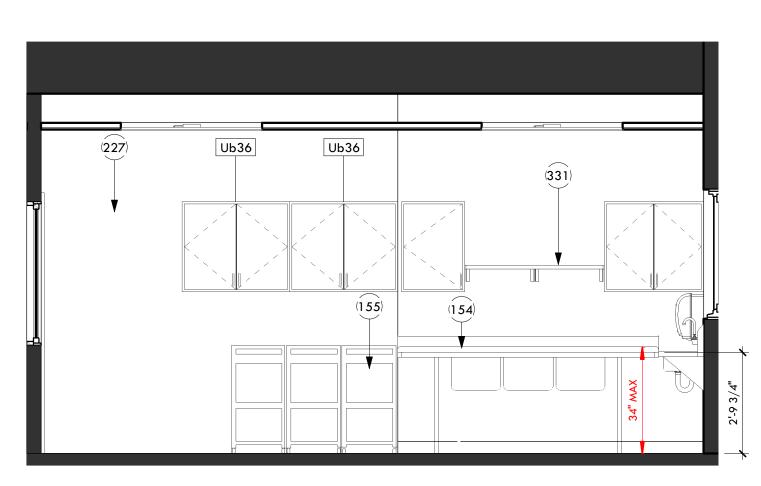
ENLARGED CLASSROOM 2 ROOM 102

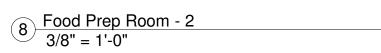


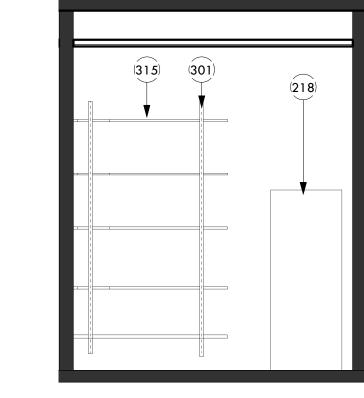




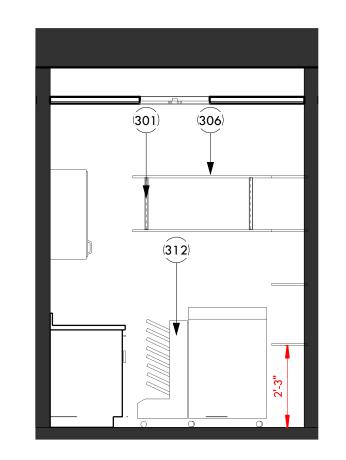




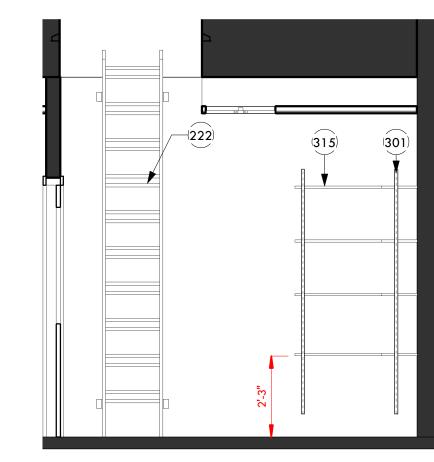




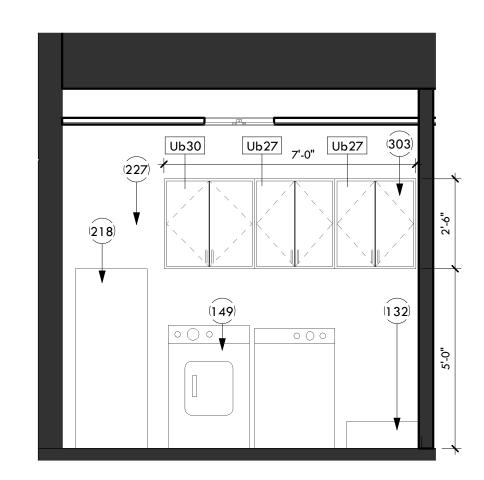
15 <u>Laundry Room 3</u> 3/8" = 1'-0"



 $\begin{array}{c}
 \hline
 13 \hline
 3/8" = 1'-0"
\end{array}$

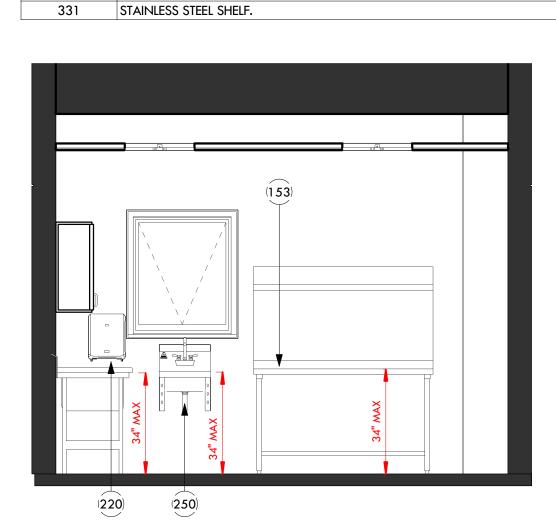


6 Laundry Room - 2 3/8" = 1'-0"

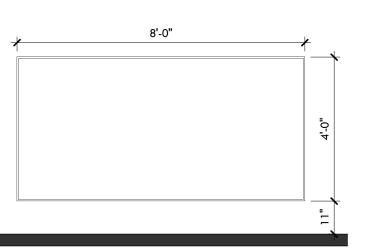


5 Laundry Room - 1 3/8" = 1'-0"

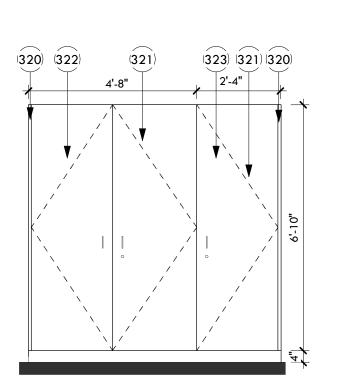
Key Value	Keynote Text
132	FLOOR MOUNTED MOP SINK.
149	CONTRACTOR FURNISHED WASHER/DRYER
152	GC TO PROVIDE CAMBRO HOT BOXES, FOUR STACKABLE.
153	STAINLESS STEEL WORK BENCH WITH TOPSHELF AND UNDERSHELF.
154	STAINLESS STEEL 3-COMPARTMENT SINK WITH DRAINBOARDS EACH SIDE.
155	OWNER PROVIDED FREE STANDING CARTS. (3)
157	COMMERCIAL REFRIGERATOR.
205	STAINLESS STEEL HAND WASHING SINK. ADULT MOUNTING HEIGHT. PROVIDE TOUCHLESS FAUCET. PROVIDE SIDE SPLASH GARDS AT KITCHEN LOCATION.
217	STAINLESS STEEL SINGLE BOWL KITCHEN SINK WITH TOUCHLESS KITCHEN FAUCET.
218	50 GALLOW WATER HEATER.
219	TOUCHLESS SOAP DISPENSER.
220	TOUCHLESS PAPER TOWEL DISPENSER, PROVIDED BY OWNER.
222	WALL MOUNTED ROOF ACCESS LADDER.
227	WHITE FRP W/ TRIM.
228	STAINLESS STEEL, ELKAY EQUIPMENT/MICROWAVE SHELF TO ACCOMMODATE COMMERCIAL MICROWAVE.
233	SOLID SURFACE COUNTER WITH MATCHING BACK SPLASH. SEAL ALL SEAMS WITH MATCHING OR CLEAR 100% SILICONE.
250	STAINLESS STEEL FOOD PREP SINK WITH SPLASH GUARD.
301	HEAVY DUTY ALUMINUM DOUBLE SLOTTED STANDARDS AND BRACKETS, KNAPE AND VOGT 85/185 SERIES (OR APPROVED EQUAL)
303	12" DEEP UPPER CABINETS, PLASTIC LAMINATE ALL EXPOSED SURFACES. LOCKED KEYE PER LOCATION.
306	12" DEEP, WALL MOUNTED, OPEN PLASTIC LAMINATE SHELF CABINET. ADJUSTABLE HT SHELVES.
310	CONTRACTOR PROVIDED COMMERCIAL MICROWAVE.
312	OWNER PROVIDED COPIER.
313	PLASTIC LAMINATE COUNTER TOP WITH 4" SPLASH.
314	POWER ABOVE COUNTER FOR CONTRACTOR PROVIDED LAMINATOR.
315	12" DEEP ADJUSTABLE PLASTIC LAMINATE SHELVES.
316	24" DEEP LOCKING BASE CABINETS PLASTIC LAMINATE ALL EXPOSED SURFACES.
319	BASE PER SCHEDULE.
320	PLASTIC LAMINATE FILLER PANEL TO ALLOW CABINET DOOR TO SWING FULLY OPEN.
321	ADJUSTABLE HT SHELVING.
322	PLASTIC LAMINATE DOOR TO FULL HT CABINET WITH OPEN BASE TO ALLOW FOR ROLL-IN STORAGE OF SLEEPING COTS. PROVIDE WITH TOTLOK LOCKING HARDWAR PLASTIC LAMINATE ALL EXPOSED SURFACES.
323	PLASTIC LAMINATE CABINET DOOR. PROVIDE WITH TOTLOK LOCKING HARDWARE, PLASTIC LAMINATE ALL EXPOSED SURFACES.
221	



12 Food Prep Room - 3 3/8" = 1'-0"



Typical White board - Elevation 3/8" = 1'-0"



Typical Cot Storage Cabinet
3/8" = 1'-0"

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Westside Hea	RESOURCE TEAM
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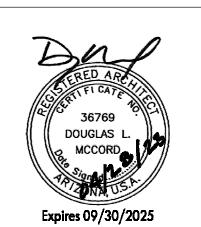
Charities

Tolleson

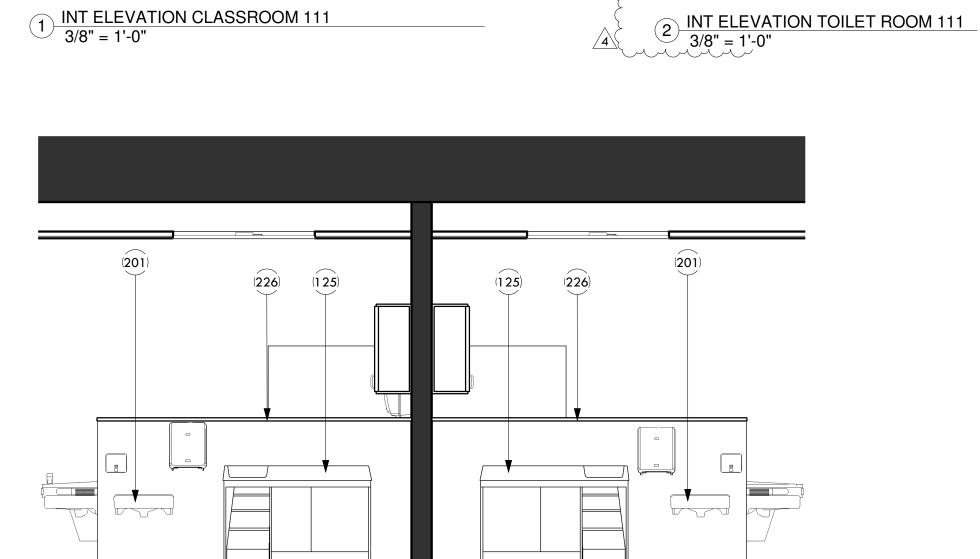
CONSTRUCTION DOCUMENTS

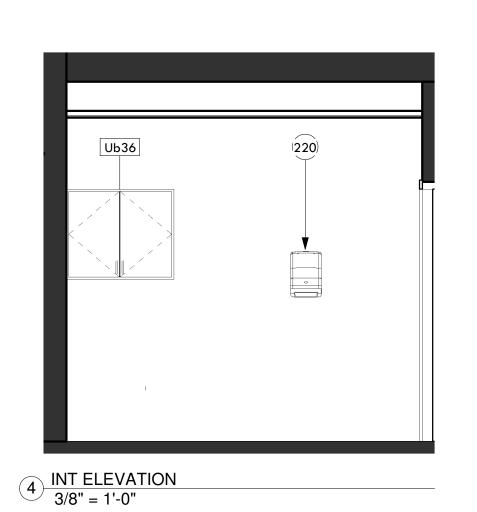
OCCIVILIATO			
	Revision	Schedule	
No.	Date	Description	
1	08.02.23	City of Phoenix	
		Comments	
2	08.23.23	City of Phoenix	
		Comments	

22025	ART PROJECT NO.
04.21.2023	DATE

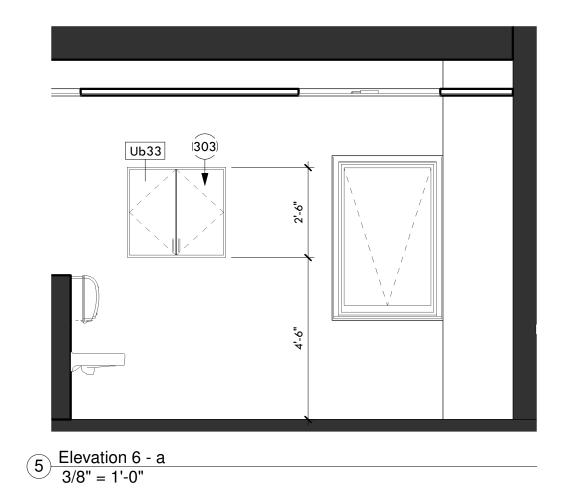


DRAWING TITLE INTERIOR **ELEVATIONS**





3 INT ELEVATION CLASSROOM 102 &103 3/8" = 1'-0"



	KEYNOTES		
Key Value	Keynote Text		
125	CHANGING TABLE PROVIDED BY OWNER.		
201	WALL MOUNTED PORCELIN HAND WASHING SINK. CHILD MOUNTING HEIGHT HT 22" TO TOP O RIM. PROVIDE TOUCHLESS FAUCET.		
202	WALL MOUNTED PORCELIN HAND WASHING SINK. ADULT MOUNTING HEIGHT. PROVIDE TOUCHLESS FAUCET.		
203	DRINKING FOUNTAIN. CHILD MOUNTING HT. 22" TO TOP OF RIM.		
209	WALL MOUNTED PORCELIN LAVATORY, CHILD MOUNTING CHILD HT 22" TO TOP OF RIM. PROVII TOUCHLESS FAUCET.		
220	TOUCHLESS PAPER TOWEL DISPENSER, PROVIDED BY OWNER.		
226	SOLID SURFACE WALL CAP TO MATCH COUNTERS.		
227	WHITE FRP W/ TRIM.		
233	SOLID SURFACE COUNTER WITH MATCHING BACK SPLASH. SEAL ALL SEAMS WITH MATCHING OF CLEAR 100% SILICONE.		
303	12" DEEP UPPER CABINETS, PLASTIC LAMINATE ALL EXPOSED SURFACES. LOCKED KEYED PER LOCATION.		

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Catholic Charities Westside Head Start - Tolleson

ARCHITECTURAL RESOURCE TEAM

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CONSTRUCTION DOCUMENTS

Revision Schedule

No. Date Description

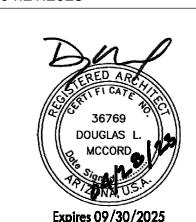
4 Date 4 Owner Comments

22025

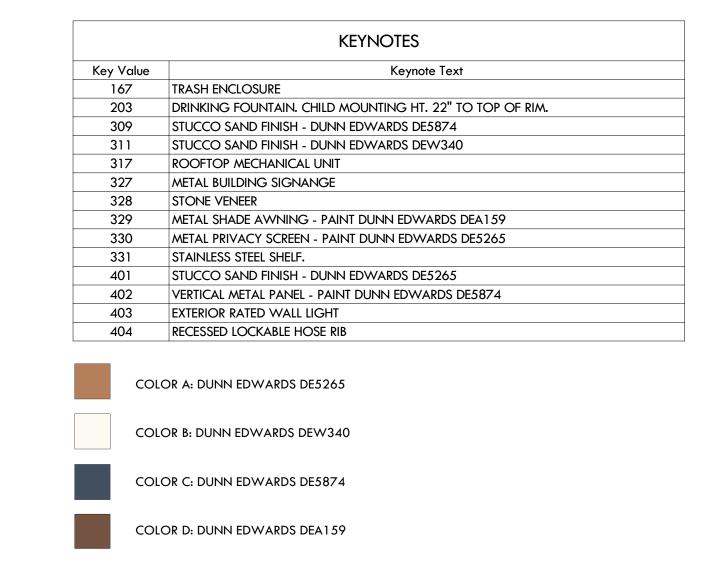
04.21.2023

ART PROJECT NO.

DATE



INTERIOR ELEVATIONS



Catholic Charities Westside Head Start - Tolleson

ARCHITECTURAL RESOURCE TEAM

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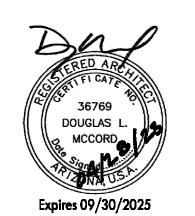
CONSTRUCTION DOCUMENTS

Revision Schedule

No. Date Description

22025 ART PROJECT NO.

04.21.2023



BUILDING ELEVATIONS

NO 11

Ceiling Schedule			
Type Mark Description Comments			
1	2' x 2' Tegular Acoustic tile ceiling on metal grid supported by wire hangers.		

Roof Schedule		
Type Mark	Description	Comments
	Corrugated metal roof	
1	Open web truss per structural with R-38 spray foam, 1/2" sheathing, TPO roof system.	

	Floor Schedule	
Type Mark	Description	Comments
1	Vapor barrier under interior spaces, 4" Concrete Slab on Grade	

	KEYNOTES
Key Value	Keynote Text
222	WALL MOUNTED ROOF ACCESS LADDER.
225	MECHANICAL UNIT - SEE MECHANICAL
237	METAL FINISH PARAPET CAP

tside Head Start ARCHITECTURAL RESOURCE TEAM



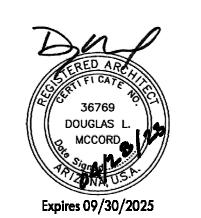
CONSTRUCTION DOCUMENTS

Catholic Charities

Tolleson

Revision Schedule No. Date Description

ART PROJECT NO. 22025 04.21.2023



BUILDING SECTIONS

	Roof Schedule	
Type Mark	Description	Comments
	Corrugated metal roof	
1	Open web truss per structural with R-38 spray foam, 1/2" sheathing, TPO roof system.	

Floor Schedule		
Type Mark	Description	Comments
1	Vapor barrier under interior spaces, 4" Concrete Slab on Grade	

Ceiling Schedule					
Type Mark	Description	Comments			
1	2' x 2' Tegular Acoustic tile ceiling on metal grid supported by wire hangers.				

tside Head Start Catholic Charities West

CONSTRUCTION DOCUMENTS

Revision Schedule No. Date Description

22025 ART PROJECT NO. 04.21.2023



WALL SECTIONS

	Roof Schedule	
Type Mark	Description	Comments
	Corrugated metal roof	
1	Open web truss per structural with R-38 spray foam, $1/2$ " sheathing, TPO roof system.	

Floor Schedule					
Type Mark	Description	Comments			
1	Vapor barrier under interior spaces, 4" Concrete Slab on Grade				

	Ceiling Schedule					
Type Mark	Description	Comments				
1	2' x 2' Tegular Acoustic tile ceiling on metal grid supported by wire hangers.					

tside Head Start Catholic Charities West

CONSTRUCTION DOCUMENTS

Revision Schedule No. Date Description

22025 04.21.2023 ART PROJECT NO.



WALL SECTIONS

	Roof Schedule	
Type Mark	Description	Comments
	Corrugated metal roof	
1	Open web truss per structural with R-38 spray foam, $1/2$ " sheathing, TPO roof system.	

Floor Schedule					
Type Mark	Description	Comments			
1	Vapor barrier under interior spaces, 4" Concrete Slab on Grade				

Ceiling Schedule				
Type Mark	Description	Comments		
1	2' x 2' Tegular Acoustic tile ceiling on metal grid supported by wire hangers.			

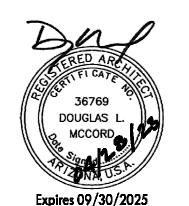
Iside Head Start Catholic Charities

CONSTRUCTION DOCUMENTS

West

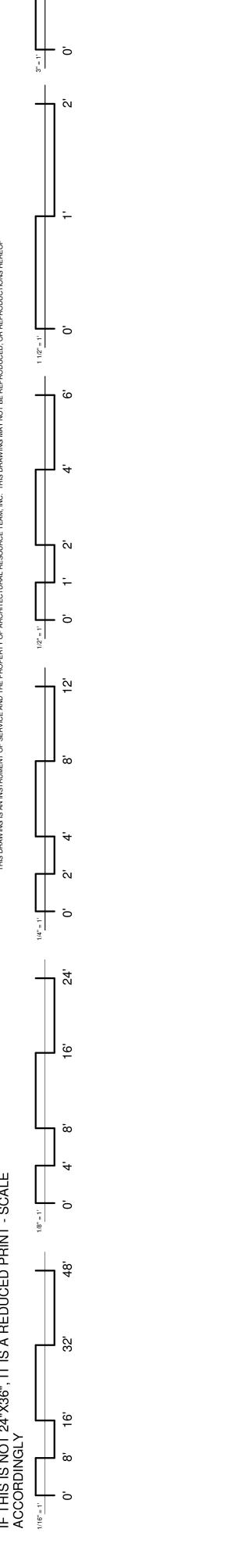
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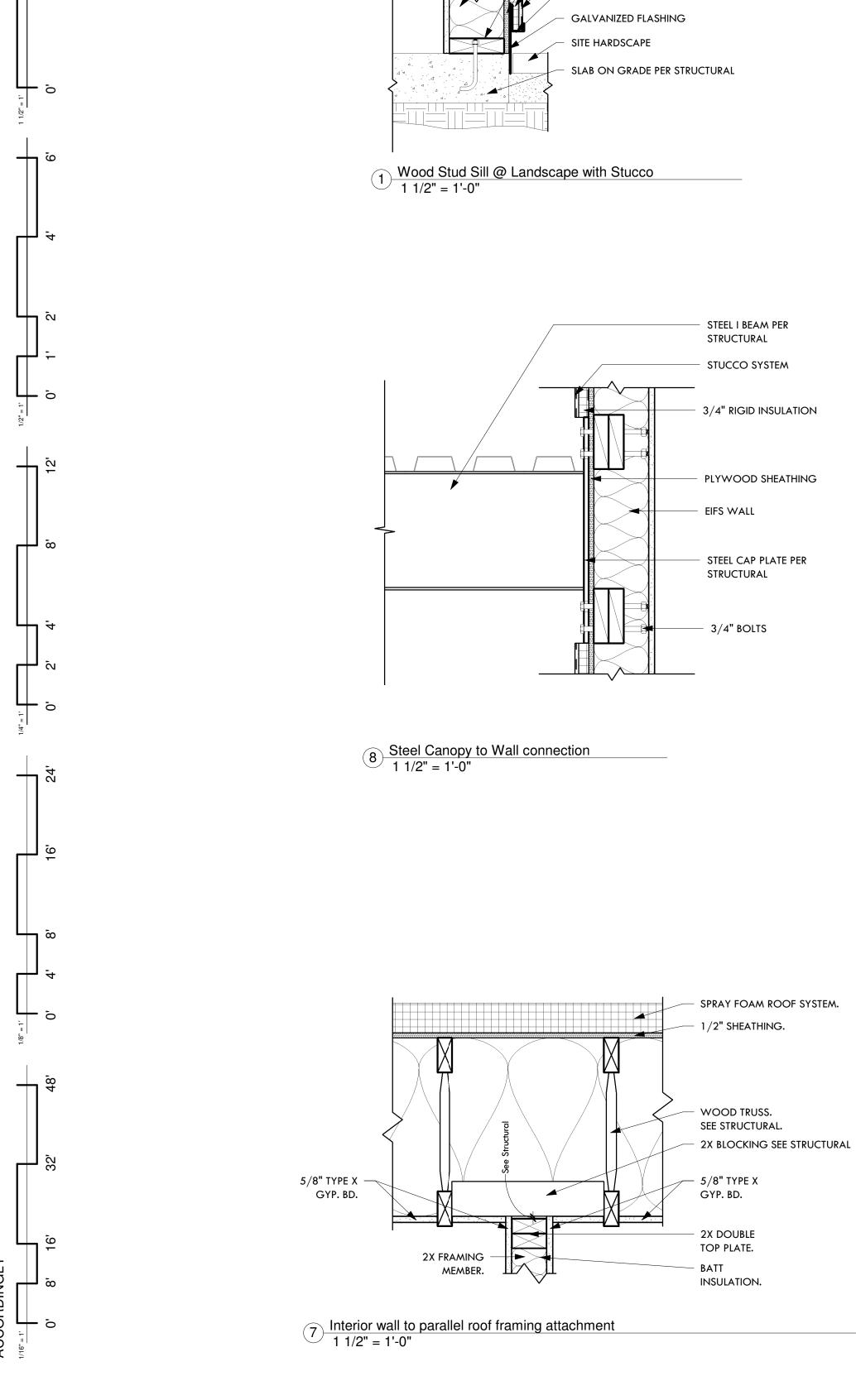
22025 04.21.2023

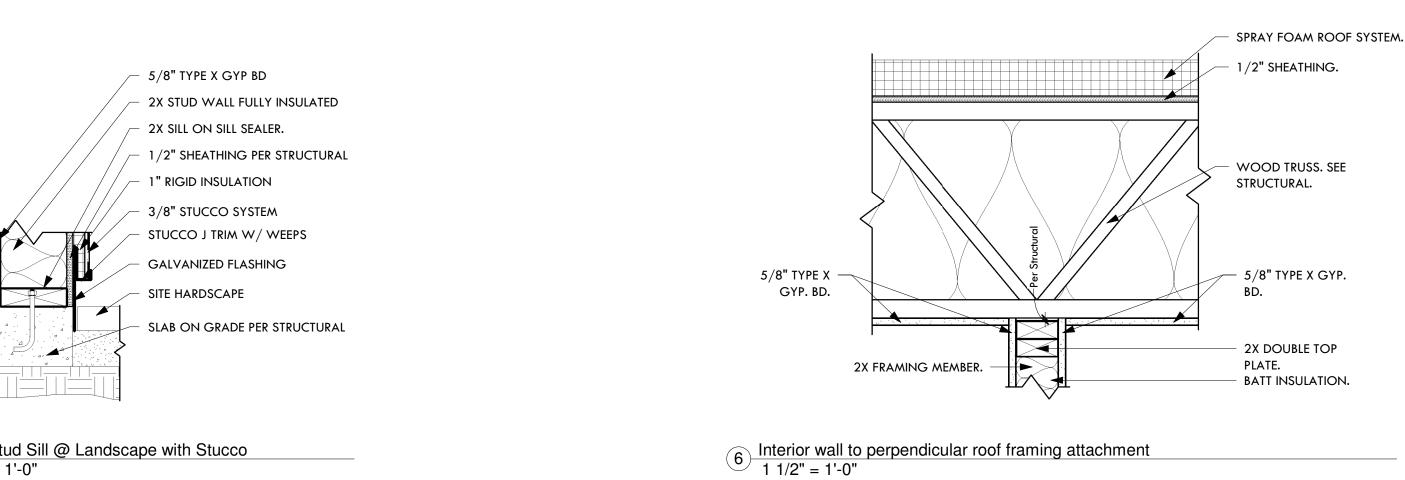


WALL SECTIONS

A4.23







STEEL I BEAM PER STRUCTURAL

STUCCO SYSTEM

3/4" RIGID INSULATION

PLYWOOD SHEATHING

STEEL CAP PLATE PER

SPRAY FOAM ROOF SYSTEM.

1/2" SHEATHING.

WOOD TRUSS.

2X DOUBLE TOP PLATE.

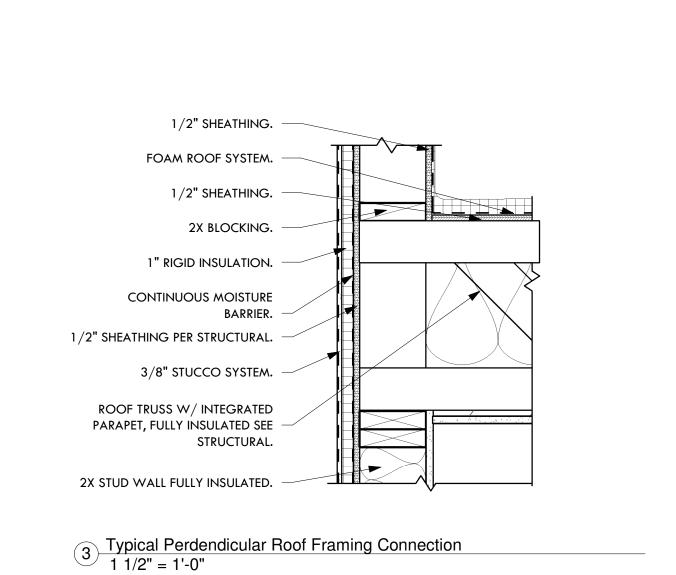
INSULATION.

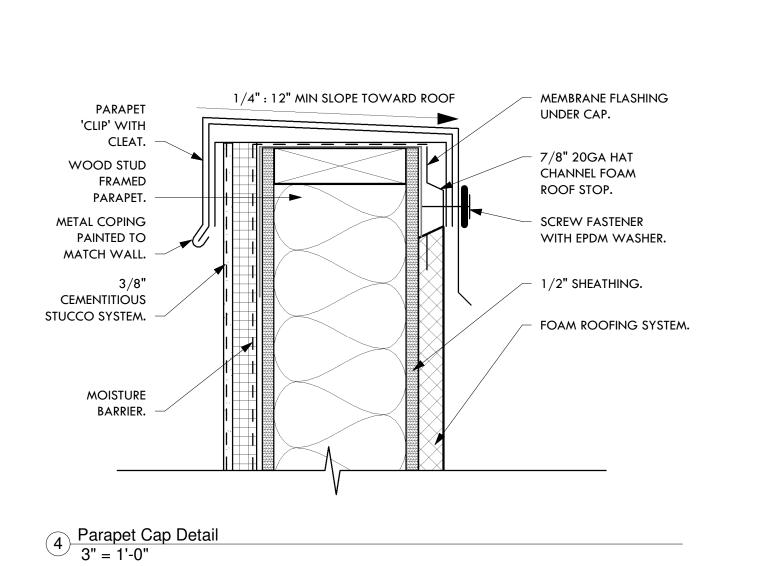
SEE STRUCTURAL.

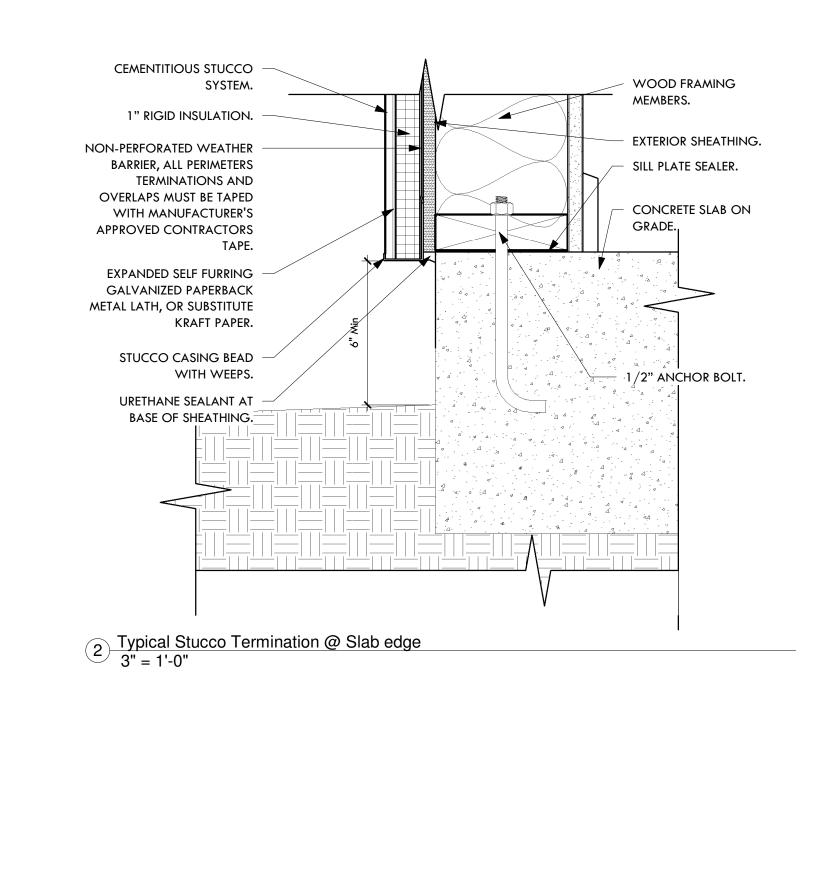
EIFS WALL

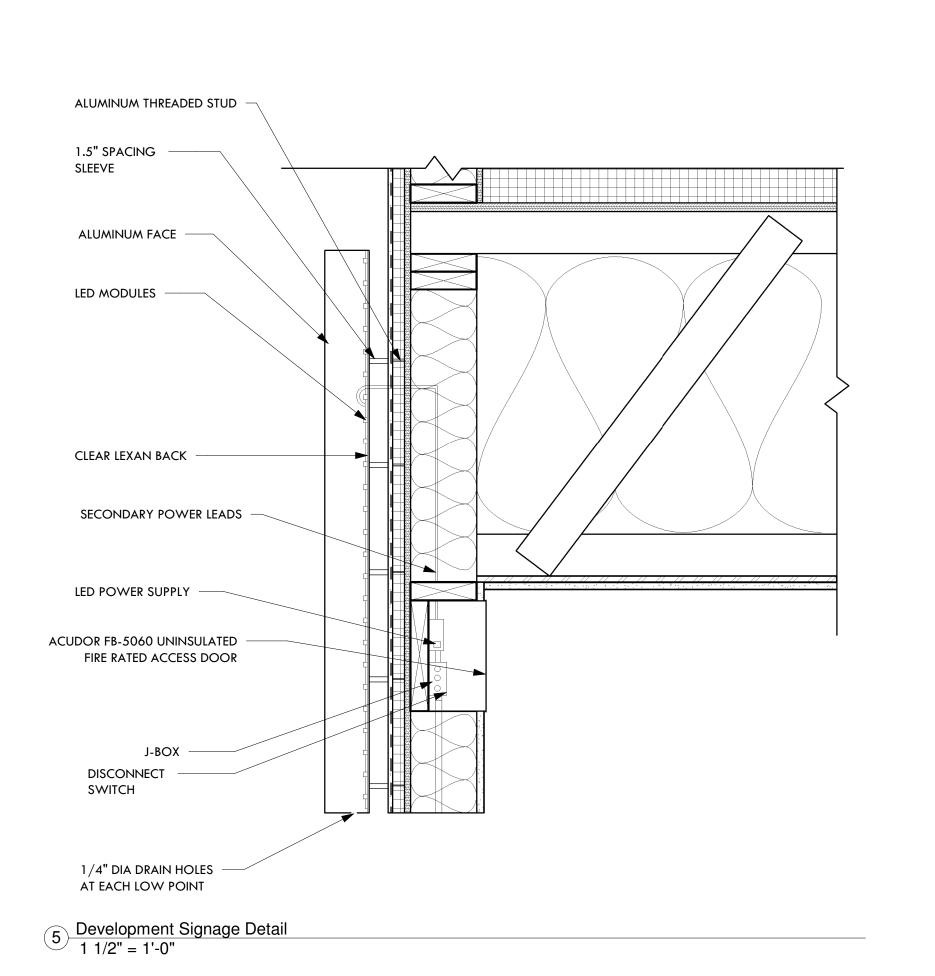
STRUCTURAL

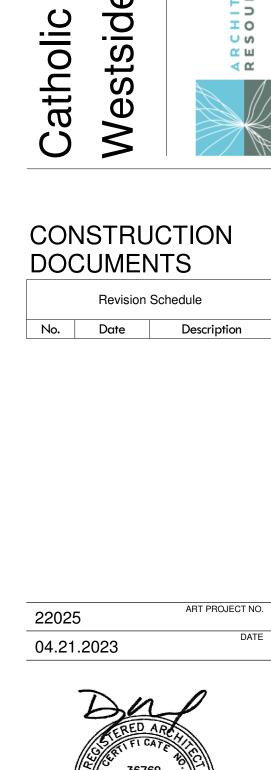
3/4" BOLTS











Son

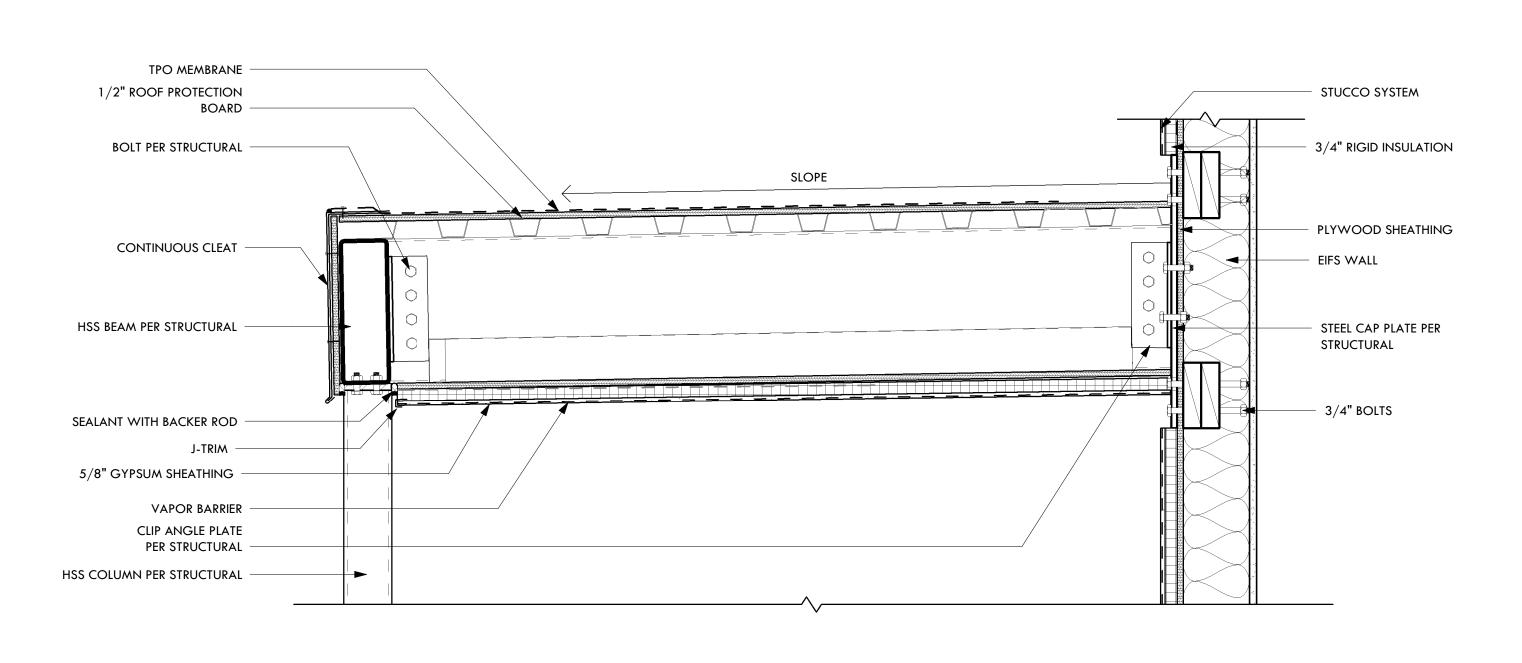
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Head

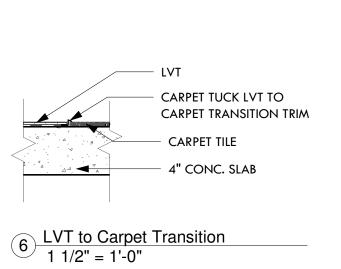
ARCHITECTURAL RESOURCE TEAM

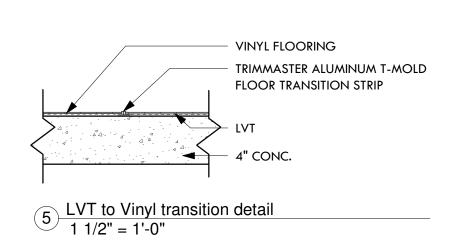
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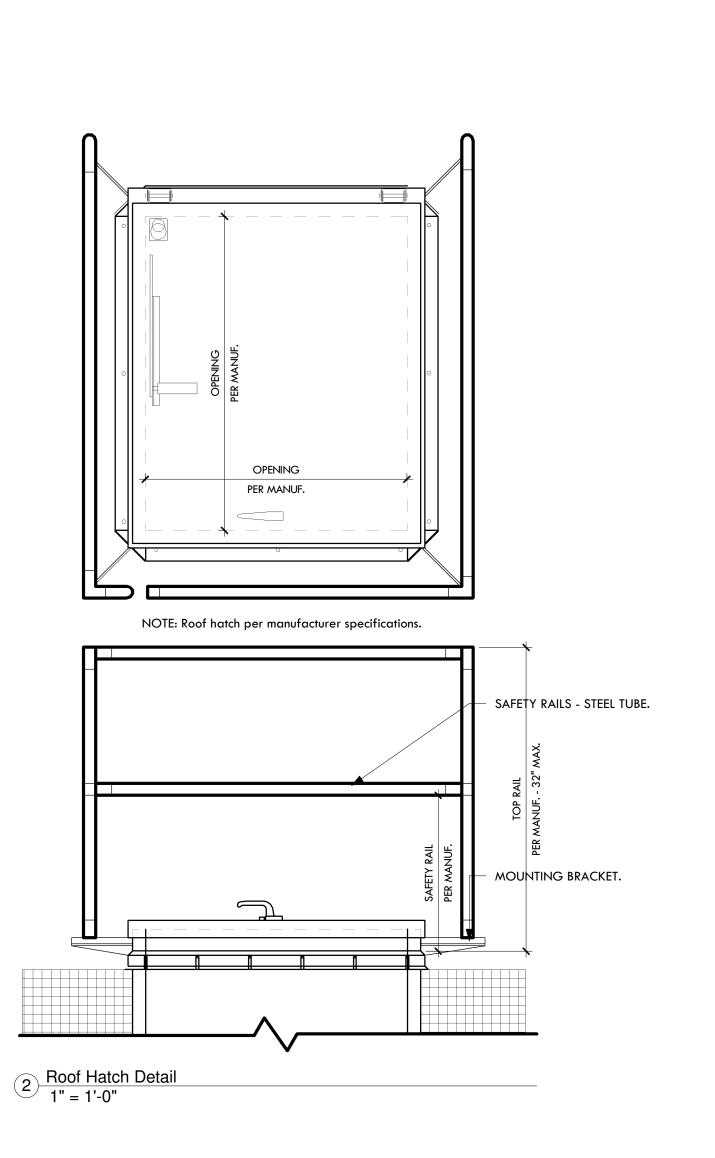
ARCHITECTURAL DETAILS

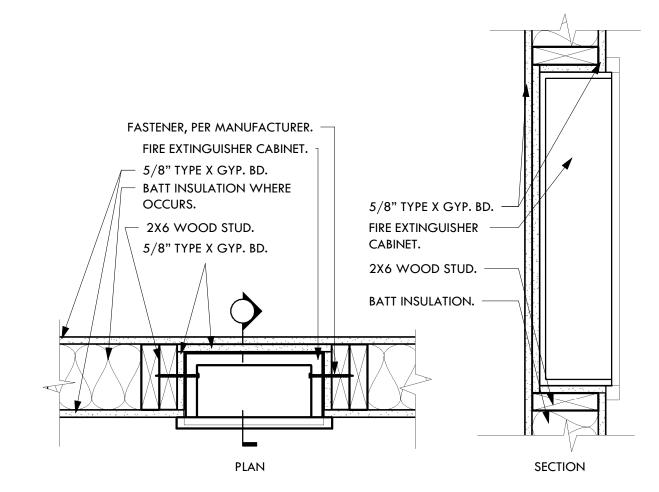


Frame Shade Canopy detail
1 1/2" = 1'-0"

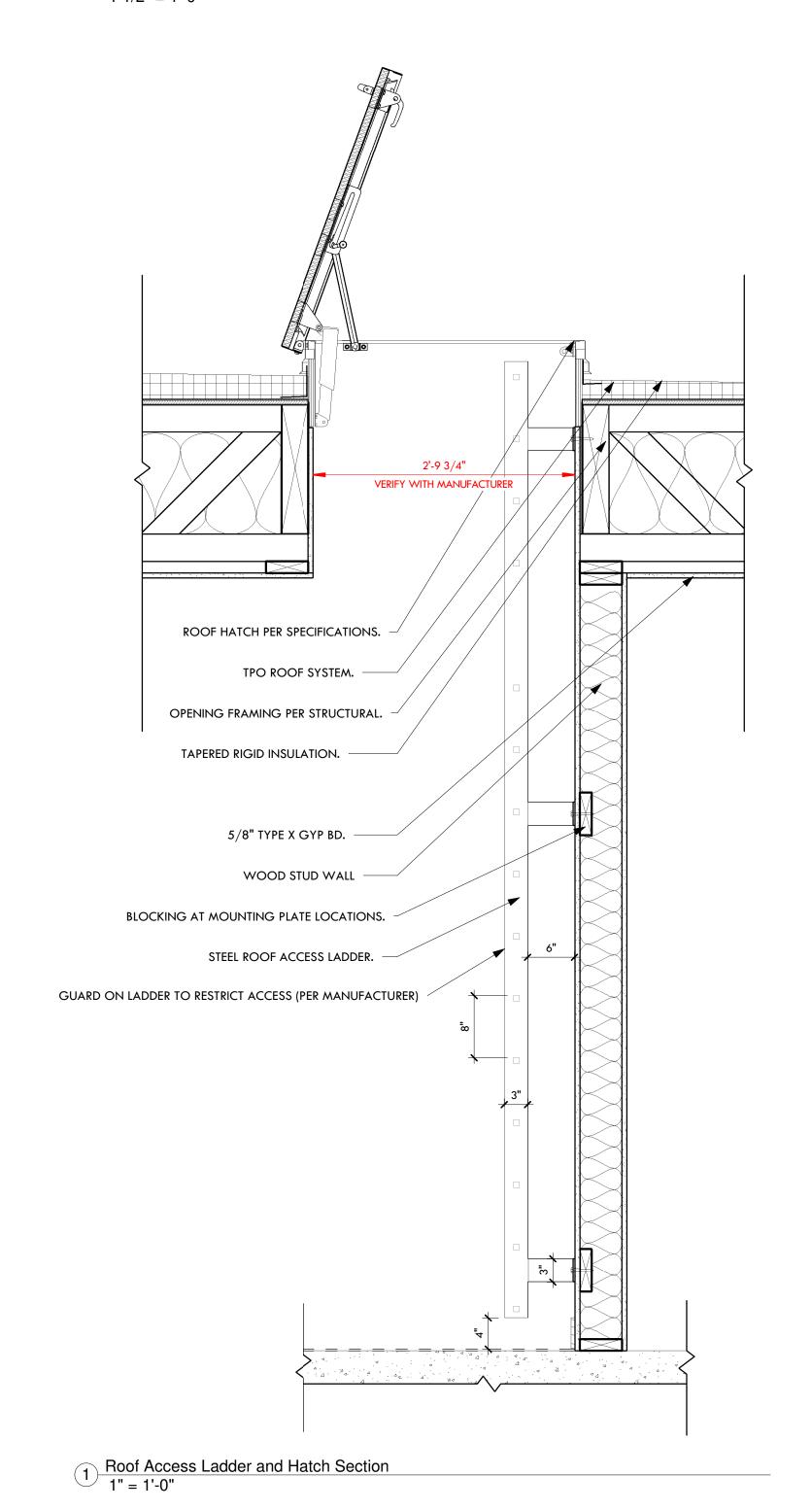








4 1-HR Semi Recessed FEC 1 1/2" = 1'-0"



Catholic Charities Westside Head Start - Tollesor

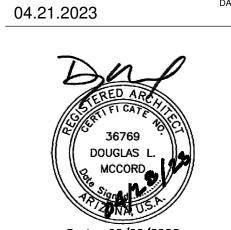
CONSTRUCTION DOCUMENTS

Revision Schedule

No. Date Description

ARCHITECT RESOURCE

22025 ART PROJECT NO.



ARCHITECTURAL DETAILS

A5.12

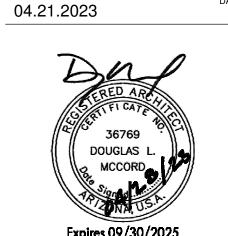
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SCHEDULES

Door	Door Door							Frame	
Number	Туре	Width	Height	Thickness	Material	Finish	Hardware	Material	Comments
101a	Α	3' - 0"	7' - 0"	0' - 1 3/8"	НМ	PT	101	НМ	
101b	M	3' - 0"	7' - 0"	0' - 1 3/8"	WD	WD	207	Timely ST	
102a	Α	3' - 0"	7' - 0"	0' - 1 3/8"	HM	PT	101	HM	
102b	Α	3' - 0"	7' - 0"	0' - 1 3/8"	WD	WD	207	Timely ST	
103a	Α	3' - 0"	7' - 0"	0' - 1 3/8"	HM	PT	101	HM	
103b	Α	3' - 0"	7' - 0"	0' - 1 3/8"	WD	WD	207	Timely ST	
104a	Α	3' - 0"	7' - 0"	0' - 1 3/8"	НМ	PT	101	HM	
112	Α	3' - 0"	7' - 0"	0' - 1 3/8"	НМ	PT	102	HM	
114a	Α	3' - 0"	7' - 0"	0' - 1 3/8"	НМ	PT	102	HM	
114c	L	2' - 10"	3' - 0"	0' - 1"					
114d	L	2' - 10"	3' - 0"	0' - 1"					
114e	L	2' - 10"	3' - 0"	0' - 1"					
114h	Α	3' - 0"	7' - 0"	0' - 1 3/8"					
201a	Α	3' - 0"	7' - 0"	0' - 1 3/8"	WD	WD	208	Timely ST	
202a	Α	3' - 0"	7' - 0"	0' - 1 3/8"	WD	WD	200	Timely ST	
203a	Α	3' - 0"	7' - 0"	0' - 1 3/8"	WD	WD	201	Timely ST	
204a	Α	3' - 0"	7' - 0"	0' - 1 3/8"	WD	WD	201	Timely ST	
205a	Α	3' - 0"	7' - 0"	0' - 1 3/8"	WD	WD	201	Timely ST	
206a	Α	3' - 0"	7' - 0"	0' - 1 3/8"	HM	PT	103	HM	
206b	Α	3' - 0"	7' - 0"	0' - 1 3/8"	WD	WD	202	Timely ST	Provide keypad/fob access. Provide Laminated Glazing
207a	М	3' - 0"	7' - 0"	0' - 1 3/8"	WD	WD	203	Timely ST	
208a	Α	3' - 0"	7' - 0"	0' - 1 3/8"	WD	WD	204	Timely ST	
301	Α	3' - 0"	7' - 0"	0' - 1 3/8"	HM	PT	100	HM	
302a	Α	3' - 0"	7' - 0"	0' - 1 3/8"	WD	WD	205	Timely ST	
303a	Α	3' - 0"	7' - 0"	0' - 1 3/8"	WD	WD	206	Timely ST	

	Unit [Dimensions					Glazing		Window	
Type Mark	Width	Height	Туре	Material	Finish	Thickness	Туре	Head Height	Treatment	Comments
1	2' - 6"	4' - 0"	Fixed		Dark Bronze	1"	Clear	7' - 0"		Interior
1	2' - 6"	4' - 0"	Fixed		Dark Bronze	1"	Clear	7' - 0"		Interior
1	2' - 6"	4' - 0"	Fixed		Dark Bronze	1"	Clear	7' - 0"		Interior
1	2' - 6"	4' - 0"	Fixed		Dark Bronze	1"	Clear	7' - 0"		Interior
2	3' - 0"	4' - 6"	Window-Hopper-Duratherm- Wood		Dark Bronze	1"	Solarban 60 (2) Optigray + Clear	7' - 3"		Opens to exterior
2	3' - 0"	4' - 6"	Window-Hopper-Duratherm- Wood		Dark Bronze	1"	Solarban 60 (2) Optigray + Clear	7' - 3"		Opens to exterior
2	3' - 0"	4' - 6"	Window-Hopper-Duratherm- Wood		Dark Bronze	1"	Solarban 60 (2) Optigray + Clear	7' - 3"		Opens to exterior
2	3' - 0"	4' - 6"	Window-Hopper-Duratherm- Wood		Dark Bronze	1"	Solarban 60 (2) Optigray + Clear	7' - 3"		Opens to exterior
2	3' - 0"	4' - 6"	Window-Hopper-Duratherm- Wood		Dark Bronze	1"	Solarban 60 (2) Optigray + Clear	7' - 3"		Opens to exterior
2	3' - 0"	4' - 6"	Window-Hopper-Duratherm- Wood		Dark Bronze	1"	Solarban 60 (2) Optigray + Clear	7' - 3"		Opens to exterior
2	3' - 0"	4' - 6"	Window-Hopper-Duratherm- Wood		Dark Bronze	1"	Solarban 60 (2) Optigray + Clear	7' - 3"		Opens to exterior
2	3' - 0"	4' - 6"	Window-Hopper-Duratherm- Wood		Dark Bronze	1"	Solarban 60 (2) Optigray + Clear	7' - 3"		Opens to exterior
2	3' - 0"	4' - 6"	Window-Hopper-Duratherm- Wood		Dark Bronze	1"	Solarban 60 (2) Optigray + Clear	7' - 3"		Opens to exterior
2	3' - 0"	4' - 6"	Window-Hopper-Duratherm- Wood		Dark Bronze	1"	Solarban 60 (2) Optigray + Clear	7' - 3"		Opens to exterior
2	3' - 0"	4' - 6"	Window-Hopper-Duratherm- Wood		Dark Bronze	1"	Solarban 60 (2) Optigray + Clear	7' - 3"		Opens to exterior
2	3' - 0"	4' - 6"	Window-Hopper-Duratherm- Wood		Dark Bronze		Solarban 60 (2) Optigray + Clear	7' - 3"		Opens to exterior
3	1' - 4"	4' - 0"	Fixed		Dark Bronze	1"	Solarban 60 (2) Optigray + Clear	7' - 0"		
4	5' - 0"	3' - 0"	Fixed		Dark Bronze		Clear	6' - 0"		Interior
16	3' - 0"	3' - 6"	Window-Hopper-Duratherm-		Dark Bronze	1"	Solarban 60 (2) Optigray	7' - 3"		Opens to exterior

+ Clear

			Room	Finishes			
Level	Room Number	Room Name	Ceiling Finish	Base Finish	Floor Finish	Wall Finish	Comments
EVEL 1	101	CLASSROOM 1	ACT	RB1	F1	P1/W1	
EVEL 1	102	CLASSROOM 2	ACT	RB1	F1	P1/W1	
EVEL 1	103	CLASSROOM 3	ACT	RB1	F1	P1/W1	
EVEL 1	104	EHS CLASSROOM	ACT	RB1	F1	P1/W1	
EVEL 1	111	TOILET ROOM	ACT	RB2	F1	P1/W2	
EVEL 1	112	TOILET ROOM	ACT	RB2	F1	P1/W2	
EVEL 1	113	TOILET ROOM	ACT	RB2	F1	P1/W2	
EVEL 1	114	TOILET ROOM	ACT	RB2	F1	P1/W2	
EVEL 1	201	FOOD PREP ROOM	ACT2	RB2	F2	P1/W3	
EVEL 1	202	LAUNDRY	ACT	RB2	F2	P1/W2	
EVEL 1	203	FSS OFFICE	ACT	RB1	F3	P1/W1	
EVEL 1	204	AREA MANAGER	ACT	RB1	F3	P1/W1	
EVEL 1	205	DIRECTORS OFFICE	ACT	RB1	F3	P1/W1	
EVEL 1	206	VESTIBLE	ACT	RB1	F1	P1/W1	
EVEL 1	207	COPY ROOM	ACT	RB1	F3	P1/W1	
EVEL 1	208	RESTROOM	ACT	RB2	F2	P1/W2	
EVEL 1	301	FIRE RISER	N/A	RB1	N/A	P1/W1	
EVEL 1	302	IT RM	ACT	RB1	F1	P1/W1	
EVEL 1	303	STRG	ACT	RB1	F1	P1/W1	

Appliance Schedule						
ITEM	MANUFACTURER	MODEL NUMBER	DIMENSIONS (WxDxF			
Dishwasher						
ADA Dishwasher						
Dryer (ADA compliant)						
lce Maker (ADA compliant)						
Refrigerator						
ADA Refrigerator						
Washer						
ADA Washer						
ADA Undercounter Microwave						
Over the Range Microwave						
Range Hood						
Range						
ADA Range						

Toilet Accessory Schedule					
ITEM	MANUFACTURER	MODEL NUMBER	DIMENSIONS (WxDxH		
Medicine Cabinet					
Towel Ring					
ADA Grab Bars					
Robe Hook					
Mirror					
Toilet Paper Dispenser					
Hand Dryer					
Baby Changing Station					
Wall Mounted Trash					

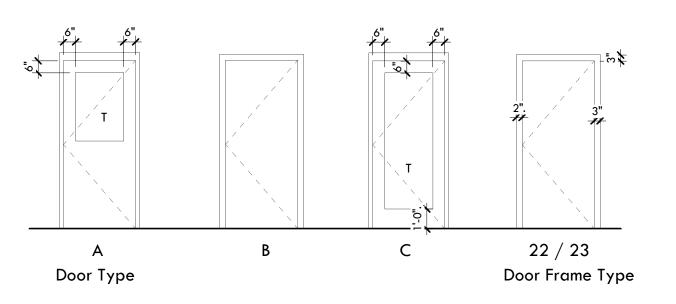
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,		
/8"		
3/4"		
	nstruction	Comments
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5/8"		
_	'	

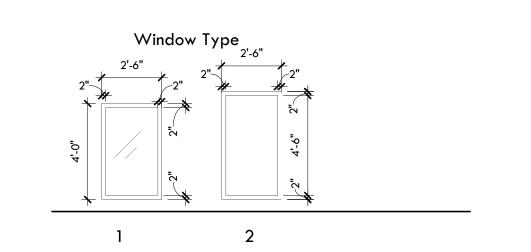
Roof Schedule				
ype Mark	Description	Comments		
	Corrugated metal roof			
	Open web truss per structural with R-38 spray foam, $1/2$ " sheathing, TPO roof system.			

1 1/2" metal panel, 1" rigid insulation, moisture barrier, 1/2" Sheathing, 2 x 6 stud wall fully insulated where needed, 5/8" type X Gyp. Bd.

Floor Schedule					
ype Mark Description Comments					
	Vapor barrier under interior spaces, 4" Concrete Slab on Grade				

Ceiling Schedule				
Type Mark	Description	Comments		
1	2' x 2' Tegular Acoustic tile ceiling on metal grid supported by wire hangers.			





0' - 9 1/8"

FINISH LEGEND

F3

BASE RB1

RB2

W1

W2

CEILINGS

ACT2

P4

PL2

QRZ

FRP -1

PLASTIC LAMINATE

LVT - ARMSTRONG - COLLECTION: BIOME COLOR: MONTANTE MONT BLANC: #ST250

COLOR: ASTERIOD, #3732

FRP TO 48" A.F.F. @ ALL WALLS.

TEGULAR, COLOR: WHITE

UNLESS NOTED OTHERWISE.

(CLASSROOM & PARENT BOARDS)

PAINT (BASED ON DUNN EDWARDS)

ARCHITECT.

SMOOTH FRP FULL HT. @ ALL WALLS.

WASHABLE CEILING PANELS @ FOOD PREP

COLOR: IMPLY #81485

SHEET VINYL - FORBO - MARMOLEUM, CONCRETE

CARPET TILE - SHAW CONTRACT GROUP - COLOR FORM TILE #5T112,

6" RUBBER BASE - TARKETT, COLOR: WETLANDS #TH3, PROFILE: COVE BASE.

6" SEAMLESS VINYL BASE - MARMOLEUM - CONCRETE COLOR: ASTERIOD

RUBBER BASE - TARKETT, COLOR: INKWELL #TH3, PROFILE: COVE BASE.

#3732, WELDED SEAMS. PROVIDE 3/8" RADIUS COVE STICK.

ROCKFON 24" x 24" PACIFIC SL260, STONEWOOL CEILING TILE,

PAINT - WALL FIELD COLOR: SO CHIC DET614, EPOXY SATIN FINISH,

PAINT - HM FRAMES - COLOR AS SELECTED BY OWNER.

PAINT AT STUCCO - COLOR AS SELECTED BY OWNER.

PAINT - SOFFIT AND CEILINGS: COLOR: COOL DECEMBER, FLAT FINISH.

PAINT AT STEEL COLUMNS AND SHADE CANOPIES - COLOR AS SELECTED BY

BASE CABINETS & UPPER - WILSONART LAMINATE, COLOR: AS SELECTED

PLASTIC LAMINATE COUNTER TOP - WILSONART, COLOR: AS SELECTED BY

QUARTZ SOLID SURFACE AT WET COUNTERTOPS - DELLA TERRA, COLOR:

FRP WALL PANELS - CRANE, FINISH: LINEN, COLOR: WHITE (RESTROOMS)

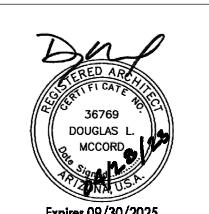
FRP WALL PANELS - CRANE, FINISH: SMOOTH, COLOR: WHITE

GYPSUM BOARD W/LIGHT ORANGE PEEL TEXTURE.

^{*}PER THE IBC 1010.1.9 DOOR OPERATIONS. EXCEPT AS SPECIFICALLY PERMITTED BY THIS SECTION, EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.

Catholic Charities

ARCHITECTURAL RESOURCE TEAM



SCHEDULES

A8.12

Type Mark	Family and Type	Depth	Width	Height	Finish
Be39a	Base Cabinet-Double Door & 2 Drawer: 39" ADA	2' - 0"	3' - 3"	2' - 8 1/2"	
Be39a	Base Cabinet-Double Door & 2 Drawer: 39" ADA	2' - 0"	3' - 3"	2' - 8 1/2"	
Be39a	Base Cabinet-Double Door & 2 Drawer: 39" ADA	2' - 0"	3' - 3"	2' - 8 1/2"	-
Ca24a	Counter Top: 24" Depth ADA	2' - 1"	0 0	2' - 10"	
Ca24a	Counter Top: 24" Depth ADA	2' - 1"		2' - 10"	
Ca24a	Counter Top: 24" Depth ADA	2' - 1"		2' - 10"	
Ca24a	Counter Top: 24" Depth ADA	2' - 1"		2' - 10"	
Ca24a	Counter Top: 24" Depth ADA	2' - 1"		2' - 10"	-
Bhk	Base Cabinet-Skirt: ADA - Kitchen	2' - 0"	2' - 9"	2' - 9"	
Be33a	Base Cabinet-Double Door & 2 Drawer: 33" ADA	2' - 0"	2' - 9"	2' - 8 1/2"	
Bg21a	Base Cabinet-Single Door: 21" 2	2' - 0"	1' - 9"	2' - 8 1/2"	
Uc21	Upper Cabinet-Single Door-Wall: 21"	1' - 0"	1' - 9"	2' - 6"	-
Ud30	Upper Cabinet-Double Door-Wall: 30" 1'H 2	1' - 0"	2' - 6"	2' - 0"	
Ub33	Upper Cabinet-Double Door-Wall: 33"	1' - 0"	2' - 9"	2' - 6"	
		2' - 0"	1' - 9"		
Bh21a	Base Cabinet-Single Door & Drawer: 21" ADA	1' - 0"	1' - 9"	2' - 8 1/2" 2' - 6"	
Uc21	Upper Cabinet-Single Door-Wall: 21"	2' - 0"	1' - 9"		
Bg21a	Base Cabinet-Single Door: 21" 2			2' - 8 1/2"	
Bhk Badda	Base Cabinet-Skirt: ADA - Kitchen	2' - 0"	2' - 9"	2' - 9"	
Be33a	Base Cabinet-Double Door & 2 Drawer: 33" ADA	2' - 0"	2' - 9"	2' - 8 1/2"	
Bh21a	Base Cabinet-Single Door & Drawer: 21" ADA	2' - 0"	1' - 9"	2' - 8 1/2"	
Bh21a	Base Cabinet-Single Door & Drawer: 21" ADA	2' - 0"	1' - 9"	2' - 8 1/2"	
Bhk	Base Cabinet-Skirt: ADA - Kitchen	2' - 0"	2' - 9"	2' - 9"	_
Be33a	Base Cabinet-Double Door & 2 Drawer: 33" ADA	2' - 0"	2' - 9"	2' - 8 1/2"	
Bg21a	Base Cabinet-Single Door: 21" 2	2' - 0"	1' - 9"	2' - 8 1/2"	
Uc21	Upper Cabinet-Single Door-Wall: 21"	1' - 0"	1' - 9"	2' - 6"	
Ud30	Upper Cabinet-Double Door-Wall: 30" 1'H 2	1' - 0"	2' - 6"	2' - 0"	
Ub33	Upper Cabinet-Double Door-Wall: 33"	1' - 0"	2' - 9"	2' - 6"	
Uc21	Upper Cabinet-Single Door-Wall: 21"	1' - 0"	1' - 9"	2' - 6"	
Uc21	Upper Cabinet-Single Door-Wall: 21"	1' - 0"	1' - 9"	2' - 6"	
Ub33	Upper Cabinet-Double Door-Wall: 33"	1' - 0"	2' - 9"	2' - 6"	
Ud30	Upper Cabinet-Double Door-Wall: 30" 1'H 2	1' - 0"	2' - 6"	2' - 0"	
Uc21	Upper Cabinet-Single Door-Wall: 21"	1' - 0"	1' - 9"	2' - 6"	
Bg21a	Base Cabinet-Single Door: 21" ADA	2' - 0"	1' - 9"	2' - 8 1/2"	
Bhk	Base Cabinet-Skirt: ADA - Kitchen	2' - 0"	2' - 9"	2' - 9"	
Be33a	Base Cabinet-Double Door & 2 Drawer: 33" ADA	2' - 0"	2' - 9"	2' - 8 1/2"	
Bh21a	Base Cabinet-Single Door & Drawer: 21" ADA	2' - 0"	1' - 9"	2' - 8 1/2"	
Uc21	Upper Cabinet-Single Door-Wall: 21"	1' - 0"	1' - 9"	2' - 6"	
Ub33	Upper Cabinet-Double Door-Wall: 33"	1' - O"	2' - 9"	2' - 6"	
Ud30	Upper Cabinet-Double Door-Wall: 30" 1'H 2	1' - O"	2' - 6"	2' - 0"	
Uc21	Upper Cabinet-Single Door-Wall: 21"	1' - 0"	1' - 9"	2' - 6"	
Ub27	Upper Cabinet-Double Door-Wall: 27"	1' - O"	2' - 3"	2' - 6"	
Ub30	Upper Cabinet-Double Door-Wall: 30"	1' - 0"	2' - 6"	2' - 6"	
Ub39	Upper Cabinet-Double Door-Wall: 39"	1' - 0"	3' - 3"	2' - 6"	
Ub27	Upper Cabinet-Double Door-Wall: 27"	1' - 0"	2' - 3"	2' - 6"	
Ub30	Upper Cabinet-Double Door-Wall: 30"	1' - 0"	2' - 6"	2' - 6"	
Ub33	Upper Cabinet-Double Door-Wall: 33"	1' - 0"	2' - 9"	2' - 6"	
Ub33	Upper Cabinet-Double Door-Wall: 33"	1' - 0"	2' - 9"	2' - 6"	
Ub36	Upper Cabinet-Double Door-Wall: 36"	1' - 0"	3' - 0"	2' - 6"	
Ub36	Upper Cabinet-Double Door-Wall: 36"	1' - 0"	3' - 0"	2' - 6"	
Ub36	Upper Cabinet-Double Door-Wall: 36"	1' - 0"	3' - 0"	2' - 6"	
Jb36	Upper Cabinet-Double Door-Wall: 36"	1' - 0"	3' - 0"	2' - 6"	
BFa	Base Cabinet-Filler: Base Cabinet-Filler ADA	2' - 0"	0' - 1 1/4"	2' - 8 1/2"	
BFa	Base Cabinet-Filler: Base Cabinet-Filler ADA Base Cabinet-Filler: Base Cabinet-Filler ADA	2' - 0"	0' - 0 3/4"	2' - 8 1/2"	
Uu36	Upper Cabinet-Shelving Unit-Wall: 36"	1' - 0"	3' - 0"	2' - 0"	+
	Upper Cabinet-Snelving Unit-vvall: 35 Upper Cabinet-Double Door-Wall: 33"	1' - 0"	2' - 9"	2' - 6"	+
Ub33	• • • • • • • • • • • • • • • • • • • •	1' - 0"	1' - 9"	2' - 6"	
Uc21	Upper Cabinet-Single Door-Wall: 21"	1' - 0"	2' - 9"	2' - 6"	
Ub33 Ub36	Upper Cabinet-Double Door-Wall: 33" Upper Cabinet-Double Door-Wall: 36"	1' - 0"	3' - 0"	2' - 6"	

GRADING AND DRAINAGE PLAN for HEAD START - TOLLESON

2504 SOUTH 91ST AVENUE PHOENIX, ARIZONA

A PORTION NORTHEAST QUARTER OF SECTION 16, TOWNSHIP 1 NORTH, RANGE 1 EAST OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA

CITY OF PHOENIX -**GRADING & DRAINAGE NOTES**

- 1. A GRADING PERMIT IS REQUIRED UNDER CHAPTER 32A OF THE PHOENIX CITY
- 2. WHEN HAUL PERMITS ARE REQUIRED, THEY MUST BE OBTAINED PRIOR TO OR CONCURRENTLY WITH THE GRADING AND DRAINAGE PERMIT.
- **EXCAVATING CONTRACTOR MUST GIVE LOCATION FOR WASTING EXCESS** EXCAVATION AND A LETTER FROM THE OWNER GIVING PERMISSION FOR DUMPING PRIOR TO STARTING ON-SITE CONSTRUCTION. IF EXCESS EXCAVATION EXCEEDS 100 CUBIC YARDS, THE DISPOSAL SITE WILL ALSO REQUIRE A GRADING AND DRAINAGE PERMIT.
- 4. PLANNING AND DEVELOPMENT DEPARTMENT FIELD INSPECTION GROUP SHALL BE NOTIFIED 48 HOURS BEFORE ANY ON-SITE AND/OR OFF-SITE CONSTRUCTION BEGINS, TELEPHONE (602) 262-7811.
- STAKING FINISH FLOOR ELEVATIONS IS THE RESPONSIBILITY OF THE OWNER AND HIS PROFESSIONAL ENGINEER. THE OWNER'S PROFESSIONAL ENGINEER SHALL SUBMIT THREE SEALED COPIES OF THIS GRADING AND DRAINAGE PLAN DESIGNATED AS "RECORD DRAWING" (BEARING AN ORIGINAL SIGNATURE) PRIOR TO THE REQUEST FOR FINAL INSPECTION.
- PAD CERTIFICATIONS WILL BE REQUIRED ON ALL LOTS WITHIN THE SUBDIVISION AND SUBMITTED TO THE CIVIL/SITE INSPECTOR PRIOR TO ANY CONCRETE CONSTRUCTED IN THE RIGHT-OF-WAY. PAD CERTIFICATION CAN BE SUBMITTED TO THE CIVIL/SITE INSPECTOR BY EITHER SUBMITTING ONE APPROVED BLACK-LINE AS-BUILT GRADING AND DRAINAGE PLAN OR IN LETTER FORMAT SHOWING THE DESIGN AND AS-BUILT PAD ELEVATIONS AS SHOWN ON THE APPROVED GRADING AND DRAINAGE PLAN. IT IS REQUIRED THAT THE AS-BUILT PLAN AND LETTER BE SEALED BY A CIVIL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF ARIZONA
- A SEPARATE PERMIT IS NECESSARY FOR ANY OFFSITE CONSTRUCTION.
- AN APPROVED GRADING AND DRAINAGE PLAN SHALL BE ON THE JOB SITE AT ALL TIMES. DEVIATIONS FROM THE PLAN MUST BE PRECEDED BY AN APPROVED PLAN REVISION.
- 9. GRADING AND DRAINAGE PLAN APPROVAL INCLUDES THE CONSTRUCTION OF ALL SURFACE IMPROVEMENTS SHOWN ON THE APPROVED PLAN, INCLUDING, BUT NOT LIMITED TO, RETENTION AREAS, SEDIMENTATION BASINS, AND/OR OTHER DRAINAGE FACILITIES, DRAINAGE PATTERNS, WALLS, CURBS, ASPHALT PAVEMENT, AND BUILDING FLOOR ELEVATION.
- 10. GRADES SHOWN IN RETENTION BASINS ARE DESIGNED FINISHED GRADES. SHOULD THE CONTRACTOR OR ANY SUBCONTRACTOR PLAN TO PLACE SPOIL DIRT FROM FOOTINGS. UTILITY TRENCHES. LANDSCAPING. SWIMMING POOLS. ETC. IN THE BASINS, THE BASINS SHOULD BE SUFFICIENTLY OVER-EXCAVATED DURING THE ROUGH GRADING OPERATION TO ALLOW FOR THE PLACEMENT OF
- 11. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND CONFIRMING DEPTHS OF ALL THE EXISTING UTILITY LINES WITHIN PROPOSED RETENTION BASIN AREAS. IF THE BASIN CANNOT BE CONSTRUCTED PER PLAN BECAUSE OF CONFLICTS, THE CONTRACTOR SHOULD DISCUSS MODIFICATION OF BASIN CONFIGURATION WITH THE CITY INSPECTOR TO DETERMINE IF A PLAN REVISION OR A FIELD CHANGE IS REQUIRED.
- 12. ALL DRAINAGE PROTECTIVE DEVICES SUCH AS SWALES, INTERCEPTOR DITCHES, PIPES, PROTECTIVE BERMS, BARRIER WALLS, CONCRETE CHANNELS, OR OTHER MEASURES DESIGNED TO PROTECT ADJACENT BUILDING OR PROPERTY FROM STORM RUNOFF MUST BE COMPLETED PRIOR TO BUILDING CONSTRUCTION.
- 13. PER SECTION 6.8.7 OF THE CITY OF PHOENIX STORM WATER POLICIES AND STANDARDS. SIDE SLOPES OF STORM WATER STORAGE FACILITIES SHALL BE NO STEEPER THAN 5:1 FOR IRRIGATED GRASS AREAS AND 3:1 FOR LANDSCAPE AREAS. SLOPE STABILIZATION MEASURES ARE REQUIRED FOR ALL SLOPES. GREATER THAN 5:1. THE SLOPE STABILIZATION MEASURES MUST BE READILY MAINTAINABLE USING COMMON MAINTENANCE EQUIPMENT AND BE DESIGNED WITH CONSIDERATION TO AESTHETICS. THE SLOPE STABILIZATION MEASURES SHALL BE CONSISTENT WITH COMMONLY USED ENGINEERING PRACTICES. UN-STABILIZED DECOMPOSED GRANITE IS NOT ALLOWED ON **SLOPES GREATER THAN 5:1**
- 14. ALL RETAINING WALLS ARE TO BE REVIEWED, PERMITTED, AND INSPECTED BY THE BUILDING SAFETY BRANCH OF THE PLANNING & DEVELOPMENT DEPARTMENT. ALL RETAINING WALLS ARE TO BE IN ACCORDANCE WITH SECTION 703 OF THE ZONING ORDINANCE AND SECTION 32-32 OF THE SUBDIVISION ORDINANCE FOR SPECIFIC WALL HEIGHT REQUIREMENTS. A. USE PERMIT FOR IS REQUIRED FOR ALL OVER-HEIGHT RETAINING WALLS
- 15. ALL RAMPS MUST MEET 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND CITY OF PHOENIX SUPPLEMENT TO M.A.G. UNIFORM STANDARD SPECIFICATIONS AND DETAILS; 2% MAX. CROSS SLOPES AND 12:1 MAX LONGITUDINAL SLOPES.
- 16. CERTIFICATE OF OCCUPANCY (C. OF O.) AND/OR FINAL ELECTRICAL CLEARANCE FOR ANY BUILDING IS DENIED UNTIL ALL GRADING AND DRAINAGE IMPROVEMENTS ARE COMPLETED.
- 17. EXISTING OR NEWLY DAMAGED AND/OR DISPLACED CONCRETE CURB, GUTTER, SIDEWALK, OR DRIVEWAY SLAB THAT IS WITHIN THE RIGHT-OF-WAY SHALL BE REPAIRED OR REPLACED, AS NOTED BY CITY INSPECTORS, BEFORE FINAL ACCEPTANCE OF THE WORK.
- 18. THE ENGINEERING DESIGN ON THESE PLANS ARE ONLY APPROVED BY THE CITY IN SCOPE AND NOT IN DETAIL. CONSTRUCTION QUANTITIES ON THESE PLANS ARE NOT VERIFIED BY THE CITY. APPROVAL OF THESE PLANS ARE FOR PERMIT PURPOSES ONLY AND SHALL NOT PREVENT THE CITY FROM REQUIRING CORRECTION OF ERRORS IN THE PLANS WHERE SUCH ERRORS ARE SUBSEQUENTLY FOUND TO BE IN VIOLATION OF ANY LAW, ORDINANCE, HEALTH, SAFETY, OR OTHER DESIGN ISSUES.

CITY OF PHOENIX -

GRADING & DRAINAGE NOTES (CONT'D)

- 19. THE CITY OF PHOENIX POLICE DEPARTMENT ENFORCES LAWS REGULATING THE OPERATION OF COMMERCIAL VEHICLES. THIS INCLUDES ENFORCEMENT OF FEDERAL, STATE, COUNTY, AND LOCAL LAWS AND ORDINANCES. QUESTIONS REGARDING COMMERCIAL VEHICLE ENFORCEMENT MAY BE DIRECTED TO THE COMMERCIAL VEHICLE ENFORCEMENT SUPERVISOR AT (602) 495-7813 (TRAFFIC BUREAU SOUTH) OR (602) 495-6784 (TRAFFIC BUREAU NORTH).
- 20. PLAN APPROVAL IS VALID FOR 12 MONTHS. PRIOR TO PLAN APPROVAL EXPIRATION. ALL ASSOCIATED PERMITS SHALL BE PURCHASED OR THE PLANS SHALL BE RESUBMITTED FOR EXTENSION OF PLAN APPROVAL. THE EXPIRATION, EXTENSION, AND REINSTATEMENT OF CIVIL ENGINEERING PLANS AND PERMITS SHALL FOLLOW THE SAME GUIDELINES AS THOSE INDICATED IN THE PHOENIX BUILDING CONSTRUCTION CODE ADMINISTRATIVE PROVISIONS SECTION 105.3
- 21. CONSTRUCTION WITHIN THE RIGHT-OF-WAY SHALL CONFORM TO THE LATEST APPLICABLE MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS AND DETAILS AND THE LATEST CITY OF PHOENIX SUPPLEMENT TO THE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS.
- 22. COMPACTION SHALL COMPLY WITH M.A.G. SECTION 601.
- OBSTRUCTIONS TO PROPOSED IMPROVEMENTS IN THE RIGHT-OF-WAY SHALL BE REMOVED OR RELOCATED BEFORE BEGINNING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- THE ACTUAL POINT OF PAVEMENT MATCHING AND/OR TERMINATION SHALL BE DETERMINED IN THE FIELD BY THE CITY OF PHOENIX, PLANNING & DEVELOPMENT DEPARTMENT FIELD INSPECTOR.
- 25. PAVEMENT REPLACEMENT THICKNESS AND TYPE ARE TO BE PER M.A.G. SECTION 336 AND C.O.P. DETAIL P1200 -TYPE B. CURB AND GUTTER REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL SECTION, PER M.A.G. STANDARD DETAIL 220. SIDEWALK REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL PANEL PER C.O.P. DETAIL P1230.
- 26. TREES AND SHRUBBERY IN THE RIGHT-OF-WAY THAT CONFLICT WITH PROPOSED IMPROVEMENTS SHALL NOT BE REMOVED WITHOUT APPROVAL OF THE CITY LANDSCAPE ARCHITECT OR HIS ASSIGNEES. THE PERMITTEE SHALL BE RESPONSIBLE FOR OBTAINING AUTHORIZATION TO REMOVE AND/OR RELOCATE SAID TREES OR SHRUBBERY BY CALLING THE PARKS AND RECREATION DEPARTMENT AT (602) 262-6501 AND TRANSPORTATION DEPARTMENT AT 602-534-9898.
- 27. PER THE CITY OF PHOENIX ORDINANCE G-6308. ALL STREET PAVEMENT CUTS WILL REQUIRE ASPHALT RESURFACING TREATMENTS BASED ON THE AGE OF PAVEMENT. FOR STREETS LESS THAN TWO YEARS OLD, THE PERMITTEE MUST APPLY AN ASPHALT MILL AND OVERLAY PAVEMENT TREATMENT. FOR STREETS GREATER THAN TWO YEARS OLD, THE PERMITTEE MUST APPLY A SLURRY SEAL AND/OR MICROSEAL TREATMENT.

CITY OF PHOENIX - DRYWELL NOTES

- THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR REGISTERING THE DRY WELLS SHOWN ON THE GRADING AND DRAINAGE PLAN WITH THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY (A.D.E.Q.). FOR INFORMATION ABOUT SPECIFIC REQUIREMENTS, CONTACT THE WATER PERMITS UNIT AT (602) 771-4686.
- DRY WELLS MUST BE DRILLED A MINIMUM OF 10 FEET INTO PERMEABLE POROUS STRATA OR PERCOLATION TESTS WILL BE REQUIRED. THE GRADING AND DRAINAGE INSPECTOR MUST BE PRESENT BEFORE BACKFILL OR WELL PIPES ARE PLACED WITHIN ANY DRY WELLS.
- THE OWNER/DEVELOPER IS RESPONSIBLE FOR INSTALLING DRYWELL(S) SHOULD THE RETENTION BASINS FAIL TO DRAIN WITHIN 36 HOURS.

PROJECT INFORMATION

THE PROJECT CONSISTS OF THE CONSTRUCTION OF A NEW SINGLE-STORY PRESCHOOL BUILDING WITH REQUIRED GRADING & DRAINAGE AND PAVING IMPROVEMENTS.

ADDRESS: 2504 SOUTH 91ST AVENUE PHOENIX, ARIZONA 85353

APN: 101-14-007D

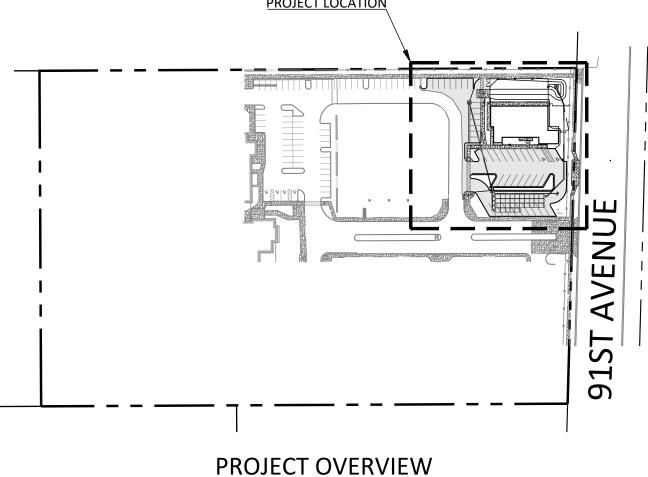
ZONING: S-1

TOTAL:

435,602 SF (10.000 AC) DISTURBED: 35,416 SF (0.813 AC)

SURVEY NOTES

- THE SURVEY FOR THIS PROJECT WAS PERFORMED BY: SUPERIOR SURVEYING SERVICES, INC. 2122 WEST LONE CACTUS DRIVE, SUITE 11 PHOENIX, ARIZONA 85027 PH: 623-869-0223 CONTACT: DAVID S. KLEIN, R.L.S.
- 2. THE BASIS OF BEARINGS FOR THIS PROJECT IS THE MONUMENT LINE OF LOWER BUCKEYE ROAD. ALSO BEING THE SOUTH LINE OF THE SOUTHEAST QUARTER OF SECTION 16. USING A BEARING OF SOUTH 89°43'00" WEST. PER THE PLAT OF THE HOME DEPOT 91ST AVENUE AND LOWER BUCKEYE, BOOK 958 OF MAPS, PAGE 7, RECORDS OF MARICOPA COUNTY, ARIZONA.
- 3. THE BASIS OF ELEVATION FOR THIS PROJECT IS THE CITY OF PHOENIX POINT ID: 19, HAVING A DESCRIBED LOCATION AND ELEVATION AS "SALT RIVER VALLEY WATER USERS ASSOCIATION BRASS CAP ON EAST SIDE OF IRRIGATION BOX LOCATED AT THE NORTHWEST CORNER OF INTERSECTION OF 83RD AVENUE AND LOWER BUCKEYE ROAD". TEMPORARY BENCHMARK ELEVATION = 1003.945',



PART OF THE SOUTHEAST QUARTER OF SECTION 16, TOWNSHIP 1 NORTH, RANGE 1

THENCE NORTH 01°36'40" EAST, ALONG THE EAST SECTION LINE OF SAID SECTION

EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN. MARICOPA COUNTY.

THENCE SOUTH 89°45'51" WEST. A DISTANCE OF 33.02 FEET TO THE WEST

RIGHT-OF-WAY LINE OF 91ST AVENUE AND THE TRUE POINT OF BEGINNING;

THENCE CONTINUING SOUTH 89°45'51" WEST, A DISTANCE OF 844.60 FEET;

THENCE NORTH 89°45'51" EAST, A DISTANCE OF 861.45 FEET TO THE SAID WEST

EXCEPT THE EAST 22 FEET THEREOF AS CONVEYED TO THE CITY OF PHOENIX BY

QUIT-CLAIM DEED RECORDED IN INSTRUMENT NO. 2005-1552374: AND ALSO

ALL COAL, ASPHALTUM, OIL, GASES, FERTILIZERS, FOSSILS, AND OTHER LIKE

EXCEPT ALL MINERALS. OIL AND GAS. AND HYDROCARBON SUBSTANCES

THENCE SOUTH 01°36'40" WEST, A DISTANCE OF 524.45 FEET TO THE TRUE POINT

EXCEPT ALL MINERALS. ORES. AND METALS OF EVERY KIND AND CHARACTER AND

SUBSTANCES IN OR UNDER SAID LAND AS RESERVED BY THE STATE OF ARIZONA IN

UNDERLYING SAID LAND AS RESERVED IN DEED RECORDED IN DOCKET 1952. PAGE

THE BENCHMARK USED FOR THIS PLAN IS THE CITY OF PHOENIX POINT ID: 19,

ROAD". TEMPORARY BENCHMARK ELEVATION = 1003.945', NGVD29.

-RETENTION PROVIDED IS 100-YR, 2-HR FOR DEVELOPED AREA

HAVING A DESCRIBED LOCATION AND ELEVATION AS "SALT RIVER VALLEY WATER

NORTHWEST CORNER OF INTERSECTION OF 83RD AVENUE AND LOWER BUCKEYE

USERS ASSOCIATION BRASS CAP ON EAST SIDE OF IRRIGATION BOX LOCATED AT THE

-EXTREME STORM OUTFALLS THE SITE AT THE SOUTHEAST DRIVEWAY ENTRANCE TO

INSURANCE RATE MAP PANEL NUMBER 04013C2170M, DATED NOVEMBER 4, 2015

THE PARCEL IS LOCATED IN THE ZONE X (SHADED) AREA, WHICH IS DEFINED AS

AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD

WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS

THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL

ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD

THE PATENT TO SAID LAND RECORDED IN BOOK 130 OF DEEDS. PAGE 239: AND ALSO

ARIZONA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF SAID SECTION 16;

THENCE NORTH 00°13'48" WEST, A DISTANCE OF 524.18 FEET;

LEGAL DESCRIPTION

16. A DISTANCE OF 760.90 FEET:

BENCHMARK

CHANCE FLOOD.

RIGHT-OF-WAY LINE OF 91ST AVENUE:

192, RECORDS OF MARICOPA COUNTY, ARIZONA.

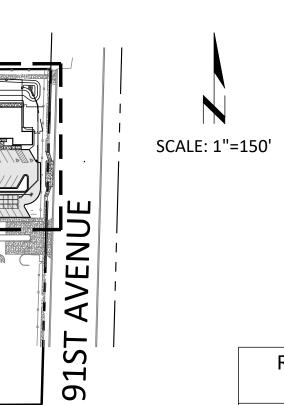
-SITE IS IN A SPECIAL FLOOD HAZARD AREA - NO

THE DEVELOPMENT AT THE ELEVATION OF 993.18

DRAINAGE STATEMENT

-OFFSITE FLOWS AFFECT THIS SITE - NO

FLOODPLAIN INFORMATION



EARTHWORK QUANTITIES

900 CY

PROJECT REQUIRED:

DEVELOPED AREA

PROVIDED:

PROJECT RETENTION

100-YR, 2-HR RETENTION VOLUME:

VOLUME [CF] = $Cw \times (P[IN] / 12) \times AREA[SF]$

STORMTECH MC-3500 STORM WATER CHAMBERS

STONE SHALL HAVE 30% VOID RATIO

SURFACE BASIN = 300 CF NORTH OF NEW BUILDING

t = 6,154 / 0.1 = 61,540 SEC = 17.1 HOURS

CHAMBER VOLUME = 5,854 CF

TOTAL INSTALLED VOLUME = 6,154 CF

DRYWELL CALCULATIONS

TOTAL RETAINED VOLUME = 6,154 CF

DRYWELL DISSIPATION RATE = 0.1CFS

TIME [SEC] = VOLUME [CF] / RATE [CFS]

 $V = 0.90 \times (2.26/12) \times 35,416 = 6,004 \text{ CF}$

PROJECT EARTHWORK (UNADJUSTED)(APPROXIMATE):

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CALCULATE HIS OWN

EARTHWORK QUANTITIES AND SUBMIT HIS BID THEREON. EARTHWORK

AND ARE NOT TO BE USED FOR BIDDING OR PAYMENT QUANTITIES.

QUANTITIES SHOWN HEREON ARE ESTIMATED FOR PERMITTING PURPOSES ONLY

STORMTECH MC-3500 CHAMBER SYSTEM (30% VOID RATIO) SPECIFICATIONS:

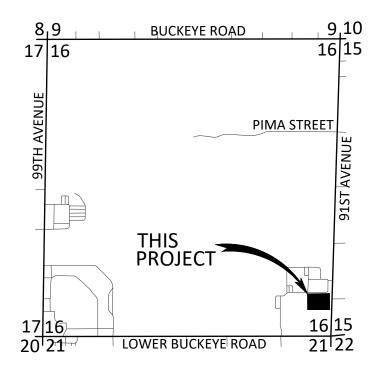
(8) STORMTECH MC-3500 END CAPS @ 37.6 CF PER END CAP = 300 CF

INSTALLED WITH 12" COVER STONE AND 9" BASE STONE.

(35) STORMTECH MC-3500 CHAMBERS @ 158.7 CF PER CHAMBER = 5,554 CF

RIGHT-OF-WAY IMPROVEMENT **QUANTITIES** 348 SF SIDEWALK REMOVAL SIDEWALK 160 SF BUS PAD 1 EA

900 CY (C)



IN THE SE 1/4 OF THE SE 1/4 OF SECTION 16, T. 1 N., R. 1 E., G.&S.R.M., CITY OF PHOENIX, ARIZONA COUNTY, ARIZONA LOCATION MAP 3'' = 1 MILE

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE "RECORD DRAWING" MEASUREMENTS AS SHOWN HEREON WERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED ENGINEER/LAND SURVEYOR

DATE

REGISTRATION NUMBER

OWNER/DEVELOPER

CATHOLIC CHARITIES WESTSIDE HEAD START PEORIA, ARIZONA 85345 PH: 623-486-9868 ATTN: YATIN DUA

CIVIL ENGINEER

RICK ENGINEERING 2401 WEST PEORIA AVENUE. #130 PHOENIX. ARIZONA 85029 PH: 602-957-3350 ATTN: JEFF HUNT, PE

ARCHITECT

ARCHITECTURAL RESOURCE TEAM 1055 EAST INDIAN SCHOOL ROAD PHOENIX, ARIZONA 85014 PH: 602-307-5399 ATTN: TERRI SOLIMAN

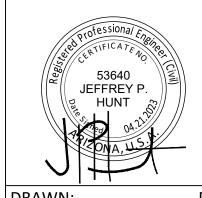
UTILITIES

WATER: CITY OF PHOENIX SEWER: CITY OF PHOENIX **ELECTRIC:** SALT RIVER PROJECT SOUTHWEST GAS GAS: TELEPHONE: CENTURYLINK CABLE: **COX COMMUNICATIONS**

SHEET INDEX

- 1. COVER SHEET
- 2. NOTES 3. GRADING AND DRAINAGE PLAN
- 4. DETAILS
- 5. CROSS SECTIONS 6. STORMTECH DETAILS





DRAWN: **DESIGNED:** CHECKED: DATE: 04-21-2023 JOB NO: 22.152

SHEET NUMBER

KIVA: 04-2913 Q.S.: 07-06

Call at least two full working d il 8-1-1 or 1-800-STAKE-IT (782-Maricopa County: (602) 263-110



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ENGINEER'S GRADING NOTES

- ALL ONSITE IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST REVISION OF THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" AND THE "UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION" AS SPONSORED AND DISTRIBUTED BY THE MARICOPA ASSOCIATION OF GOVERNMENTS (M.A.G.), AND CITY OF PHOENIX 19. SUPPLEMENTS TO MAG (MEASUREMENT AND PAYMENT TERMS TO NOT APPLY).
- SUBGRADE PREP SHALL CONFORM TO THE LATEST MAG STANDARD SPECIFICATIONS SECTION 301.
- AGGREGATE BASE COURSE SHALL CONFORM TO THE LATEST MAG STANDARD SPECIFICATION SECTION 310.
- ASPHALTIC CONCRETE SHALL CONFORM TO THE LATEST MAG STANDARD SPECIFICATION SECTION 321, 3/4" MIX.
- ALL CONCRETE SHALL CONFORM TO THE LATEST MAG STANDARD SPECIFICATION SECTION 725, CLASS B (2,500 PSI COMPRESSIVE STRENGTH AT 28 DAYS), CLASS A (3,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS), OR CLASS AA (4,000 PSI COMPRESSIVE STRENGTH AT 28 DAYS).
- ALL PERMITS FROM APPLICABLE GOVERNMENT AGENCIES NECESSARY FOR CONSTRUCTION SHALL BE ACQUIRED PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS NECESSARY FOR THE COMPLETION OF THIS PROJECT.
- ALL REQUIRED AND APPLICABLE TRAFFIC CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR AND SUBJECT TO REVIEW OF THE CITY AND SHALL CONFORM TO THE LATEST EDITION OF THE CITY OF PHOENIX TRAFFIC BARRICADE MANUAL.
- THE CONTRACTOR SHALL VERIFY ALL QUANTITIES. INCLUDING EXCAVATION. BORROW EMBANKMENT, SHRINK OR SWELL, GROUND COMPACTION, HAUL AND ANY OTHER ITEMS AFFECTING THE BID TO COMPLETE THE GRADING TO THE ELEVATIONS SHOWN ON THESE PLANS AND TO BASE THE BID SOLELY UPON HIS OWN CALCULATED QUANTITIES. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE OWNER/DEVELOPER PRIOR TO CONSTRUCTION OF ANY MAJOR DISCREPANCIES BETWEEN HIS ESTIMATED QUANTITIES AND THOSE SHOWN ON THE PLANS. ALL GRADE ADJUSTMENTS SHALL BE APPROVED IN WRITING BY THE OWNER PRIOR TO MAKING ANY CHANGES.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND COORDINATE SITE CONDITIONS WITH THE DRAWINGS PRIOR TO CONSTRUCTION, ANY DISCREPANCIES AND OMISSIONS SHALL BE RESOLVED WITH THE PROJECT ENGINEER. DO NOT USE SCALED DIMENSIONS.
- 10. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREETS. AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN STREETS AND TAKE WHATEVER MEANS NECESSARY TO INSURE THAT ALL ROADS ARE MAINTAINED IN A CLEAN, MUD AND DUST FREE CONDITION AT ALL TIMES.
- 11. AN APPROVED SET OF PLANS SHALL BE MAINTAINED ON THE JOB SITE AT ALL TIMES WORK IS IN PROGRESS. DEVIATION FROM THE PLANS WILL NOT BE ALLOWED WITHOUT AN APPROVED PLAN REVISION.
- 12. THE CONTRACTOR SHALL INSTALL ALL FRAMES AND COVERS FOR MANHOLES, VALVES, AND CLEANOUTS TO THE FINISHED GRADE IN ACCORDANCE WITH M.A.G. STANDARD DETAILS 270 AND 422, AS APPLICABLE. ALL UTILITY ACCESS POINTS PLACED IN TRAFFIC AREAS SHOULD BE TRAFFIC RATED.
- 13. CUT AND FILL SLOPES SHALL BE TRIMMED TO THE FINISH GRADE TO PRODUCE A SMOOTH SURFACE AND UNIFORM CROSS-SECTION. THE SLOPE OF THE EXCAVATIONS OR EMBANKMENTS SHALL BE SHAPED AND TRIMMED AS SHOWN ON THE PLANS AND LEFT IN A NEAT AND ORDERLY CONDITION. ALL STONES, ROOTS, OR OTHER WASTE MATTER EXPOSED ON EXCAVATION OR EMBANKMENT SLOPES SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF-SITE BY THE CONTRACTOR.
- 14. THE CONTRACTOR SHALL RETAIN THE SERVICES OF A REGISTERED LAND SURVEYOR TO PROVIDE THE CONSTRUCTION LAYOUT. THE SURVEYOR SHALL VERIFY THE KNOWN BENCHMARK AND COMPARE THE SITE CONDITIONS WITH THE PLANS AND SHALL NOTIFY THE OWNER OF ANY DISCREPANCIES OBSERVED SHOULD ANY BENCHMARK, GRADE OR DESIGN INDICATED ON THE PLANS BE SUSPECT. THE OWNER SHALL BE NOTIFIED OF SAID BENCHMARK, GRADE OR DESIGN PROBLEM AT LEAST TWENTY-FOUR (24) HOURS BEFORE CONSTRUCTION IS SCHEDULED TO BEGIN IN THE AFFECTED AREA.
- 15. UPON COMPLETION OF THE WORK, THE CONTRACTOR AND HIS SURVEYOR SHALL CERTIFY IN WRITING TO THE OWNER THAT THE PROJECT CIVIL ENGINEERING IMPROVEMENTS WERE STAKED AND BUILT IN SUBSTANTIAL CONFORMANCE TO THE LINES AND GRADES SHOWN. UNLESS NOTED OTHERWISE, SUBSTANTIAL CONFORMANCE SHALL MEAN THAT BUILDING SITES HAVE BEEN CONSTRUCTED TO WITHIN 0.10± FEET OF FINISH BUILDING PAD ELEVATIONS AS DESIGNED BY THE ENGINEER. PARKING AREAS SHALL BE CONSTRUCTED TO WITHIN 0.10± FEET OF FINISH GRADE AS DESIGNED BY THE ENGINEER. SITE FEATURES SHALL BE WITHIN 0.25 FEET OF SPECIFIED POSITION.
- 16. ACCESSIBLE STANDARDS MUST BE MET PER 2012 IBC, CHAPTER 11, AND 2009 ICC A117.1.
 - THE MINIMUM WIDTH OF THE HANDICAP ACCESSIBLE ROUTE SHALL BE 36", THE MAXIMUM SLOPE SHALL BE 8.33% AT RAMPS (6" MAXIMUM RISE) AND 5% ELSEWHERE WITHOUT HANDRAILING AND WITH HANDRAILING WHERE GREATER THAN 5%. THE MAXIMUM CROSS SLOPE SHALL BE 2%. NO LEVEL CHANGES OR STEPS SHALL BE PERMITTED ALONG THIS ROUTE.
- 17. THE CONTRACTOR SHALL RETAIN THE SERVICES OF AN INDEPENDENT ENGINEERING TESTING LABORATORY ACCEPTABLE TO PROVIDE THE CONSTRUCTION TESTING OF THE PROJECT EARTHWORK, ASPHALT PLACEMENT, AND CIVIL CONCRETE PLACEMENT. THE GEOTECHNICAL ENGINEER SHALL VERIFY THAT INITIAL SITE CONDITIONS CONFORM WITH THE PLANS AND SHALL NOTIFY THE OWNER OF ANY DISCREPANCIES OBSERVED SHOULD ANY SOIL CONDITION ON THE SITE BE SUSPECT OF DETRIMENTAL CHARACTERISTICS. THE OWNER SHALL BE NOTIFIED OF CONCERNS AT LEAST TWENTY-FOUR (24) HOURS BEFORE CONSTRUCTION IS SCHEDULED TO BEGIN ON THE AFFECTED AREA.
- 18. DURING THE COURSE OF CONSTRUCTION, TEST RESULTS SHALL BE SUBMITTED TO THE CONTRACTOR AND OWNER WHICH INDICATE IF WORK IS BEING DONE IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS.
- 19. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS.

ENGINEER'S GRADING NOTES

- 18. DURING THE COURSE OF CONSTRUCTION, TEST RESULTS SHALL BE SUBMITTED TO THE CONTRACTOR AND OWNER WHICH INDICATE IF WORK IS BEING DONE IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS.
- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS.
- 20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CARE AND MAINTENANCE OF EXISTING IMPROVEMENTS AND VEGETATION IN THE WORK AREA. PAVEMENT, CURBS, AND ANY OTHER OBSTRUCTION DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR.
- IF UNANTICIPATED CONDITIONS ARE ENCOUNTERED DURING THE COURSE OF CONSTRUCTION AND ARE BEYOND THE SCOPE OF THE DESIGN, THE OWNER SHALL BE NOTIFIED IMMEDIATELY.
- 22. CYPRESS CIVIL HEREBY CERTIFIES THAT ALL FINISHED GRADED AND PAVED AREAS CONTAINED WITHIN THIS DEVELOPMENT ARE DESIGNED WITH SLOPES OF AT LEAST 0.5%. CYPRESS CIVIL FURTHER CERTIFIES THAT THE PROPOSED DESIGN PROVIDES POSITIVE DRAINAGE THROUGHOUT THE DEVELOPMENT EXCEPT WITHIN DETENTION/RETENTION AREAS SPECIFIED WITHIN THE APPROVED DRAINAGE ANALYSIS FOR THIS PROJECT.
- THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOBSITE CONDITIONS DURING THE COURSE OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND CYPRESS CIVIL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED. IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR CYPRESS CIVIL.
- IF THERE ARE ANY QUESTIONS REGARDING THESE PLANS OR FIELD STAKES, THE CONTRACTOR SHALL REQUEST AN INTERPRETATION BEFORE DOING ANY WORK BY CALLING CYPRESS CIVIL AT 623-282-2498.

UTILITY NOTE

EXISTING UTILITY LOCATIONS, AS SHOWN ON THE PLANS, WERE COMPILED AND ARE PRESENTED BASED UPON PRELIMINARY INFORMATION AVAILABLE TO CYPRESS CIVIL DEVELOPMENT. UTILITY LOCATIONS AS SHOWN ARE NOT INTENDED TO BE EXACT OR COMPLETE AND CYPRESS CIVIL DEVELOPMENT DOES NOT ACCEPT LIABILITY OR RESPONSIBILITY FOR ANY INACCURACIES IN THE UTILITY LOCATIONS OR ANY UTILITY RELOCATIONS THAT MAY BE NECESSARY. PRIOR TO EXCAVATION, ARIZONA STATUTES REQUIRE THAT ANYONE WHO INTENDS TO EXCAVATE MUST PROVIDE TWO FULL WORKING DAYS NOTICE TO THE OWNERS OF ALL UTILITIES WITHIN THE PROJECT AREA. EXCAVATORS SHOULD CONTACT "ARIZONA BLUE STAKE" @ 1-800-782-5348 TWO (2) FULL WORKING DAYS PRIOR TO EXCAVATION. SATURDAYS, SUNDAYS, AND STATE HOLIDAYS ARE NOT CONSIDERED WORKING DAYS. ALSO BE ADVISED THAT THERE MAY BE OTHER UTILITIES IN THE PROJECT AREA THAT ARE NOT MEMBERS OF "ARIZONA BLUE STAKE". THE CONTRACTOR IS RESPONSIBLE TO POTHOLE ALL UTILITIES (SHOWN OR NOT SHOWN ON THE PLANS) MARKED BY BLUE STAKE PRIOR TO COMMENCING CONSTRUCTION OPERATIONS.

EARTHWORK + MATERIALS TESTING

- 1. THE CONTRACTOR SHALL RETAIN THE SERVICES OF, AND FACILITATE THE WORK OF. AN INDEPENDENT ENGINEERING TESTING LABORATORY ACCEPTABLE TO PROVIDE THE CONSTRUCTION TESTING OF THE PROJECT EARTHWORK, UTILITY BACKFILL, ASPHALT PLACEMENT, AND CIVIL CONCRETE PLACEMENT. THE GEOTECHNICAL ENGINEER SHALL VERIFY THAT INITIAL SITE CONDITIONS CONFORM WITH THE PLANS AND SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES OBSERVED SHOULD ANY SOIL CONDITION ON THE SITE BE SUSPECT OF DETRIMENTAL CHARACTERISTICS. THE CONTRACTOR SHALL BE NOTIFIED OF CONCERNS AT LEAST TWENTY-FOUR (24) HOURS BEFORE CONSTRUCTION IS SCHEDULED TO BEGIN ON THE AFFECTED AREA.
- 2. DURING THE COURSE OF CONSTRUCTION, TEST RESULTS SHALL BE SUBMITTED TO THE CONTRACTOR AND OWNER WHICH INDICATE IF WORK IS BEING DONE IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS.
- 3. THE CONTRACTOR SHALL PROVIDE POSITIVE GRADE AWAY FROM ALL BUILDING FOUNDATIONS.

STORM DRAIN NOTE

- ALL ON-SITE PRIVATE HDPE STORM DRAIN MATERIAL SHALL MEET THE REQUIREMENTS OF ASTM F2648 AND SHALL BE WATER TIGHT JOINTS UNLESS OTHERWISE NOTED ON THE PLANS. THE DESIGN MANNINGS 'N' VALUE SHALL BE 0.012. JOINTS SHALL MEET THE REQUIREMENTS OF ASTM D3212, ASTM F2487, AND ASTM F1417. PIPES SHALL BE DESIGNED TO SUPPORT H-25 LOADING WITH 1-FOOT OF COVER. INSTALL PIPE PER MANUFACTURER SPECIFICATIONS, AS WELL AS, MAG STANDARD SPECIFICATION SECTION 601.
- 2. FITTINGS SHALL BE IN ACCORDANCE WITH ASTM F2306 AND ASTM F2648. WATERTIGHT FITTINGS SHALL PROVIDE A JOINT THAT MEETS THE WATERTIGHT REQUIREMENTS OF ASTM D3212. TO INSURE COMPATIBILITY IN THE FIELD, THE PIPE MANUFACTURER SHALL PROVIDE ALL FITTINGS.

CITY OF PHOENIX - DRYWELL NOTES

- 1. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR REGISTERING THE DRY WELLS SHOWN ON THE GRADING AND DRAINAGE PLAN WITH THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY (A.D.E.Q.). FOR INFORMATION ABOUT SPECIFIC REQUIREMENTS, CONTACT THE WATER PERMITS UNIT AT (602) 771-4686.
- 2. DRY WELLS MUST BE DRILLED A MINIMUM OF 10 FEET INTO PERMEABLE POROUS STRATA OR PERCOLATION TESTS WILL BE REQUIRED. THE GRADING AND DRAINAGE INSPECTOR MUST BE PRESENT BEFORE BACKFILL OR WELL PIPES ARE PLACED WITHIN ANY DRY WELLS.
- 3. THE OWNER/DEVELOPER IS RESPONSIBLE FOR INSTALLING DRYWELL(S) SHOULD THE RETENTION BASINS FAIL TO DRAIN WITHIN 36 HOURS.

LECENID

	LE	GEND	
	PROJECT RIGHT-OF-WAY	(CO)	NEW SEWER CLEANOUT
	EXISTING RIGHT-OF-WAY		NEW WATER VALVE
	PROJECT/NEW PROPERTY LINE	W	NEW WATER METER
	EXISTING PROPERTY LINE	BF	NEW BACKFLOW PREVENTER
	ROADWAY CENTERLINE	¢E\$	NEW FIRE CONNECTION
	FLOW-LINE	& © ©&	NEW FIRE BACKFLOW PREVENTER
	EXISTING EASEMENT		NEW DRYWELL
	NEW EASEMENT		NEW SITE LIGHT
2321	EXISTING CONTOUR		SURVEY MONUMENT AS NOTED
2321	NEW CONTOUR	• (99.99P)	SPOT ELEV. (EXIST. GRADE)
	EXISTING CONCRETE	• 99.99P ROW	SPOT ELEV. (NEW GRADE) RIGHT-OF-WAY
	NEW ASPHALT	BC	BACK OF CURB
4	NEW CONCRETE	BSW P	BACK OF SIDEWALK
22222222222	NEW WALL	C	PAVEMENT (ASPHALT) CONCRETE
	EXISTING CURB	G TC	GUTTER TOP OF CURB
	EXISTING PAINT STRIPE	FG	FINISHED GRADE
	EXISTING FENCE	LP HP	LOW POINT HIGH POINT
	NEW CURB	GB	GRADE BREAK
	NEW PAINT STRIPE	FFE FGH	FINISHED FLOOR ELEVATION FINISH GRADE HIGH
	NEW FENCE	FGL	FINISH GRADE LOW
—— Е ——	EXISTING UNDERGROUND ELECTRIC	PUE ME	PUBLIC UTILITY EASEMENT
c	EXISTING COMMUNICATION LINE	R:	MATCH EXISTING RIM
OHE	EXISTING OVERHEAD ELECTRIC	l: L:	INVERT
IRR	EXISTING IRRIGATION LINE	S:	LENGTH SLOPE
s	EXISTING SEWER LINE		
	EXISTING WATER LINE		
——— F ———	EXISTING FIRE SERVICE		
G	EXISTING GAS LINE		
	NEW STORM DRAIN PIPE		
s	NEW SEWER LINE		
	NEW WATER LINE		

NEW FIRE SERVICE

EXISTING SEWER MANHOLE

EXISTING SEWER CLEANOUT

EXISTING BACKFLOW PREVENTER

EXISTING WATER VALVE

EXISTING WATER METER

EXISTING FIRE HYDRANT

EXISTING SIGN

EXISTING SITE LIGHT

EXISTING STREET LIGHT

EXISTING ELECTRIC PULL BOX

EXISTING LIGHT PULL BOX

EXISTING UTILITY POLE

EXISTING COMMUNICATION PULL BOX

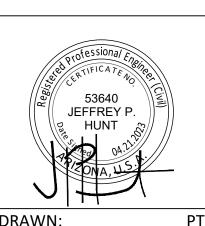
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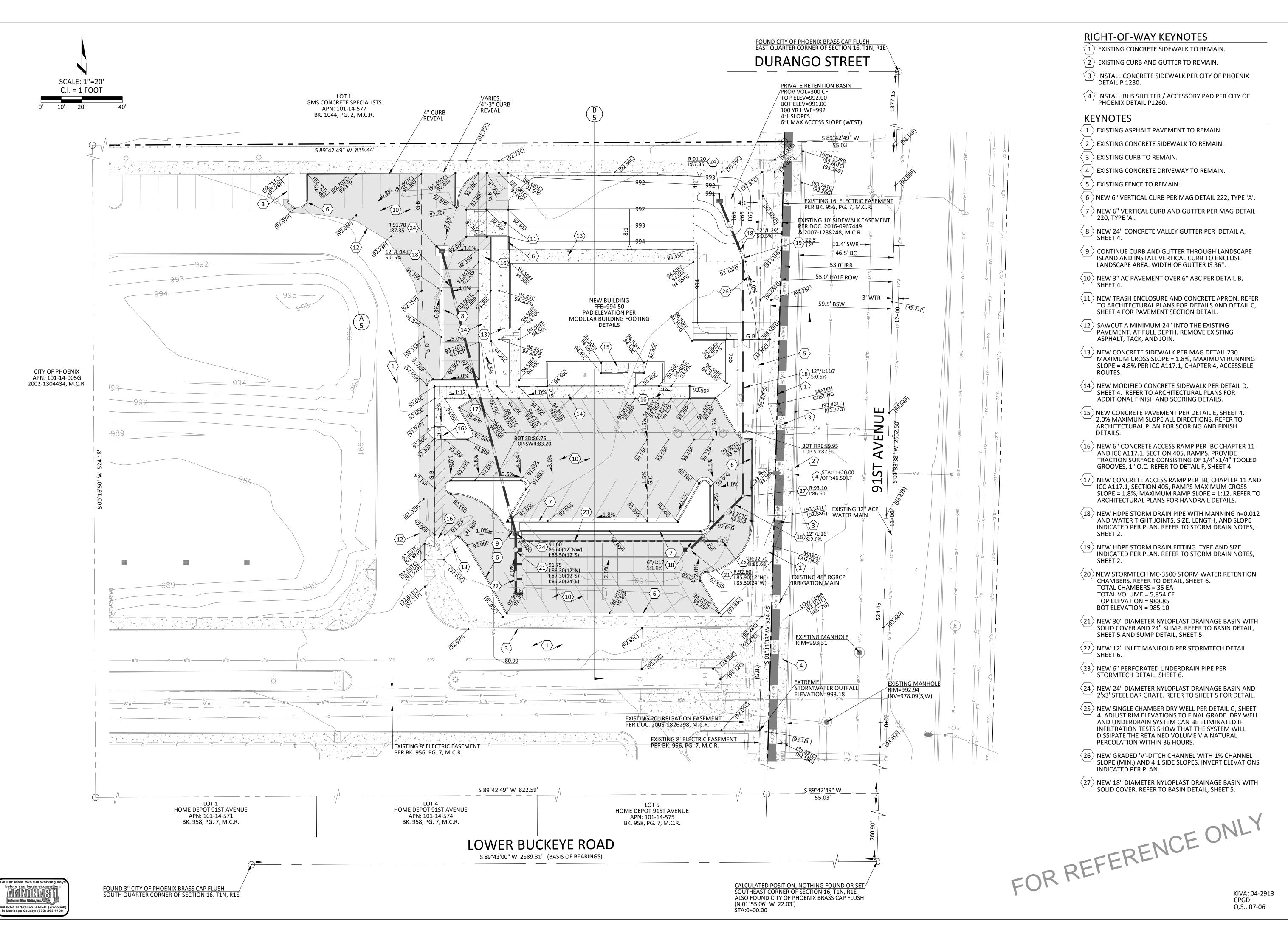


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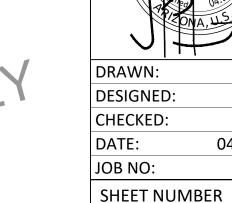


RIGHT-OF-WAY KEYNOTES

- (1) EXISTING CONCRETE SIDEWALK TO REMAIN.
- (2) EXISTING CURB AND GUTTER TO REMAIN.
- (3) INSTALL CONCRETE SIDEWALK PER CITY OF PHOENIX DETAIL P 1230.
- 4) INSTALL BUS SHELTER / ACCESSORY PAD PER CITY OF PHOENIX DETAIL P1260.

KEYNOTES

- \langle 1 \rangle EXISTING ASPHALT PAVEMENT TO REMAIN.
- 2 EXISTING CONCRETE SIDEWALK TO REMAIN.
- 3 EXISTING CURB TO REMAIN.
- 4 EXISTING CONCRETE DRIVEWAY TO REMAIN.
- 5 EXISTING FENCE TO REMAIN.
- (6) NEW 6" VERTICAL CURB PER MAG DETAIL 222, TYPE 'A'.
- \langle 7 angle NEW 6" VERTICAL CURB AND GUTTER PER MAG DETAIL ² 220, TYPE 'A'.
- 8 NEW 24" CONCRETE VALLEY GUTTER PER DETAIL A,
- (9) CONTINUE CURB AND GUTTER THROUGH LANDSCAPE ISLAND AND INSTALL VERTICAL CURB TO ENCLOSE LANDSCAPE AREA. WIDTH OF GUTTER IS 36".
- $\langle 10 \rangle$ NEW 3" AC PAVEMENT OVER 6" ABC PER DETAIL B,
- (11) NEW TRASH ENCLOSURE AND CONCRETE APRON. REFER TO ARCHITECTURAL PLANS FOR DETAILS AND DETAIL C, SHEET 4 FOR PAVEMENT SECTION DETAIL.
- SAWCUT A MINIMUM 24" INTO THE EXISTING PAVEMENT, AT FULL DEPTH. REMOVE EXISTING ASPHALT, TACK, AND JOIN.
- NEW CONCRETE SIDEWALK PER MAG DETAIL 230.
 MAXIMUM CROSS SLOPE = 1.8%, MAXIMUM RUNNING SLOPE = 4.8% PER ICC A117.1, CHAPTER 4, ACCESSIBLE ROUTES.
- NEW MODIFIED CONCRETE SIDEWALK PER DETAIL D, SHEET 4. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL FINISH AND SCORING DETAILS.
- $\langle 15 \rangle$ NEW CONCRETE PAVEMENT PER DETAIL E, SHEET 4. 2.0% MAXIMUM SLOPE ALL DIRECTIONS. REFER TO ARCHITECTURAL PLAN FOR SCORING AND FINISH DETAILS.
- ⟨16⟩ NEW 6" CONCRETE ACCESS RAMP PER IBC CHAPTER 11 AND ICC A117.1, SECTION 405, RAMPS. PROVIDE TRACTION SURFACE CONSISTING OF 1/4"x1/4" TOOLED GROOVES, 1" O.C. REFER TO DETAIL F, SHEET 4.
- (17) NEW CONCRETE ACCESS RAMP PER IBC CHAPTER 11 AND ICC A117.1, SECTION 405, RAMPS MAXIMUM CROSS SLOPE = 1.8%, MAXIMUM RAMP SLOPE = 1:12. REFER TO ARCHITECTURAL PLANS FOR HANDRAIL DETAILS.
- $\langle 18 \rangle$ NEW HDPE STORM DRAIN PIPE WITH MANNING n=0.012 AND WATER TIGHT JOINTS. SIZE, LENGTH, AND SLOPE INDICATED PER PLAN. REFER TO STORM DRAIN NOTES, SHEET 2.
- $\langle 19 \rangle$ NEW HDPE STORM DRAIN FITTING. TYPE AND SIZE INDICATED PER PLAN. REFER TO STORM DRAIN NOTES, SHEET 2.
- (20) NEW STORMTECH MC-3500 STORM WATER RETENTION CHAMBERS. REFER TO DETAIL, SHEET 6. TOTAL CHAMBERS = 35 EA TOTAL VOLUME = 5,854 CF TOP ELEVATION = 988.85 BOT ELEVATION = 985.10
- 21 NEW 30" DIAMETER NYLOPLAST DRAINAGE BASIN WITH SOLID COVER AND 24" SUMP. REFER TO BASIN DETAIL, SHEET 5 AND SUMP DETAIL, SHEET 5.
- 22 NEW 12" INLET MANIFOLD PER STORMTECH DETAIL
- NEW 6" PERFORATED UNDERDRAIN PIPE PER STORMTECH DETAIL, SHEET 6.
- NEW 24" DIAMETER NYLOPLAST DRAINAGE BASIN AND 2'x3' STEEL BAR GRATE. REFER TO SHEET 5 FOR DETAIL.
- (25) NEW SINGLE CHAMBER DRY WELL PER DETAIL G, SHEET 4. ADJUST RIM ELEVATIONS TO FINAL GRADE. DRY WELL AND UNDERDRAIN SYSTEM CAN BE ELIMINATED IF INFILTRATION TESTS SHOW THAT THE SYSTEM WILL DISSIPATE THE RETAINED VOLUME VIA NATURAL PERCOLATION WITHIN 36 HOURS.
- 26 NEW GRADED 'V'-DITCH CHANNEL WITH 1% CHANNEL SLOPE (MIN.) AND 4:1 SIDE SLOPES. INVERT ELEVATIONS INDICATED PER PLAN.
- 27 NEW 18" DIAMETER NYLOPLAST DRAINAGE BASIN WITH SOLID COVER. REFER TO BASIN DETAIL, SHEET 5.



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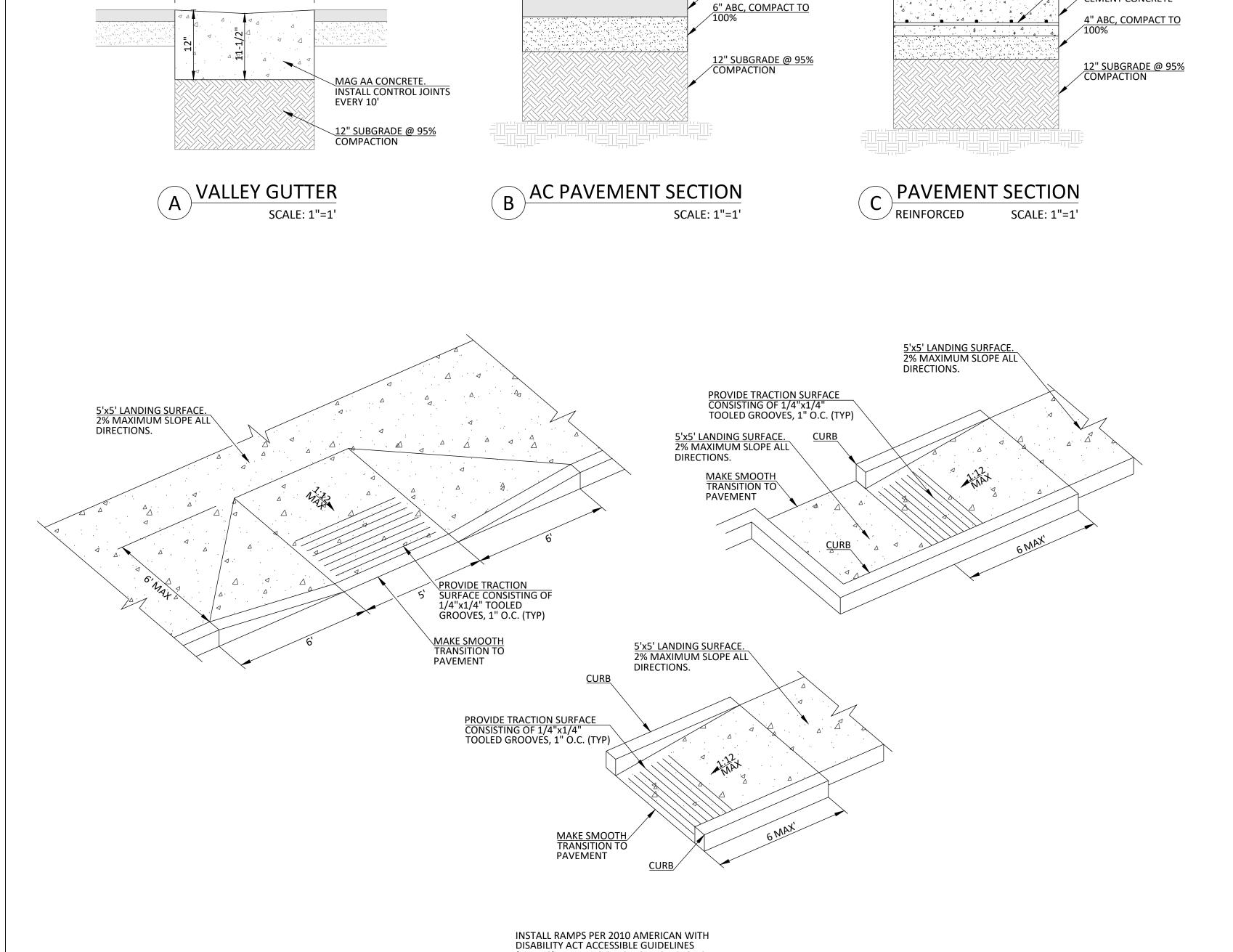
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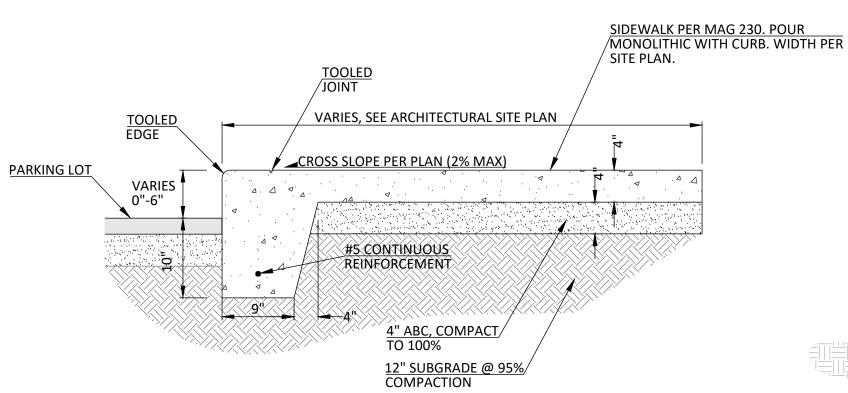
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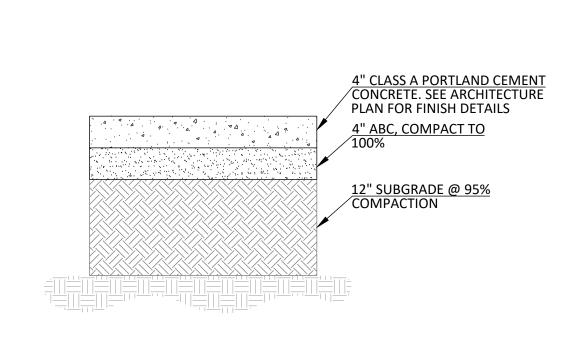
(ADAAG) AND MAG SPECIFICATION SECTION 340. TRUNCATED DOMES ARE NOT REQUIRED.

3" AC (3/4" MIX)

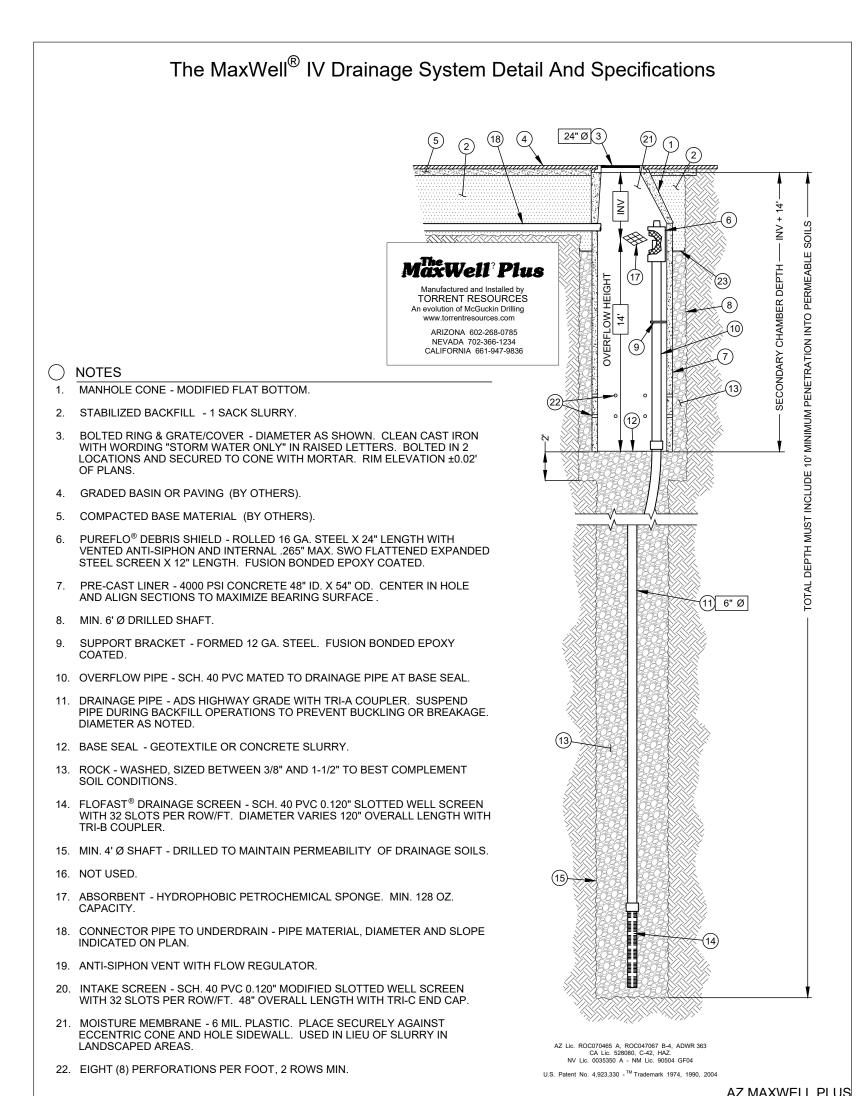


7" CLASS AA PORTLAND CEMENT CONCRETE











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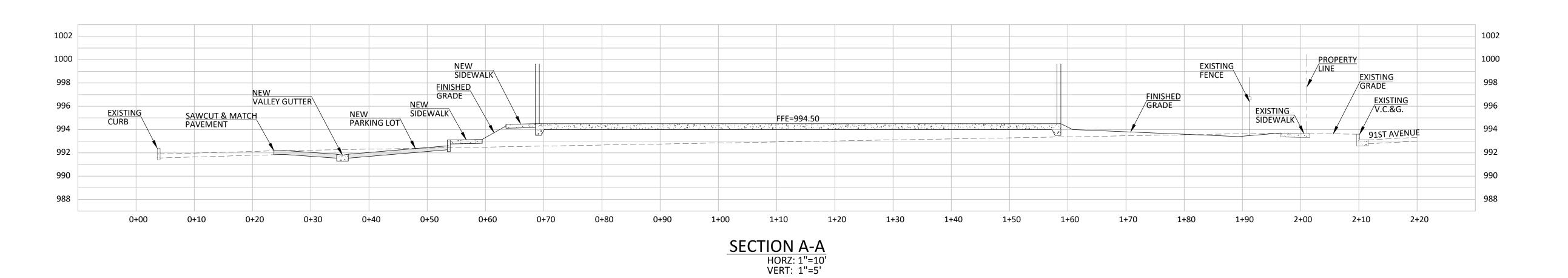
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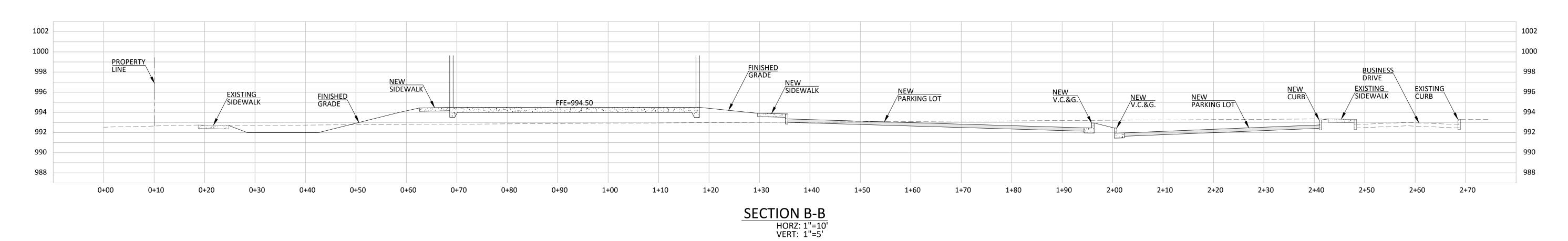
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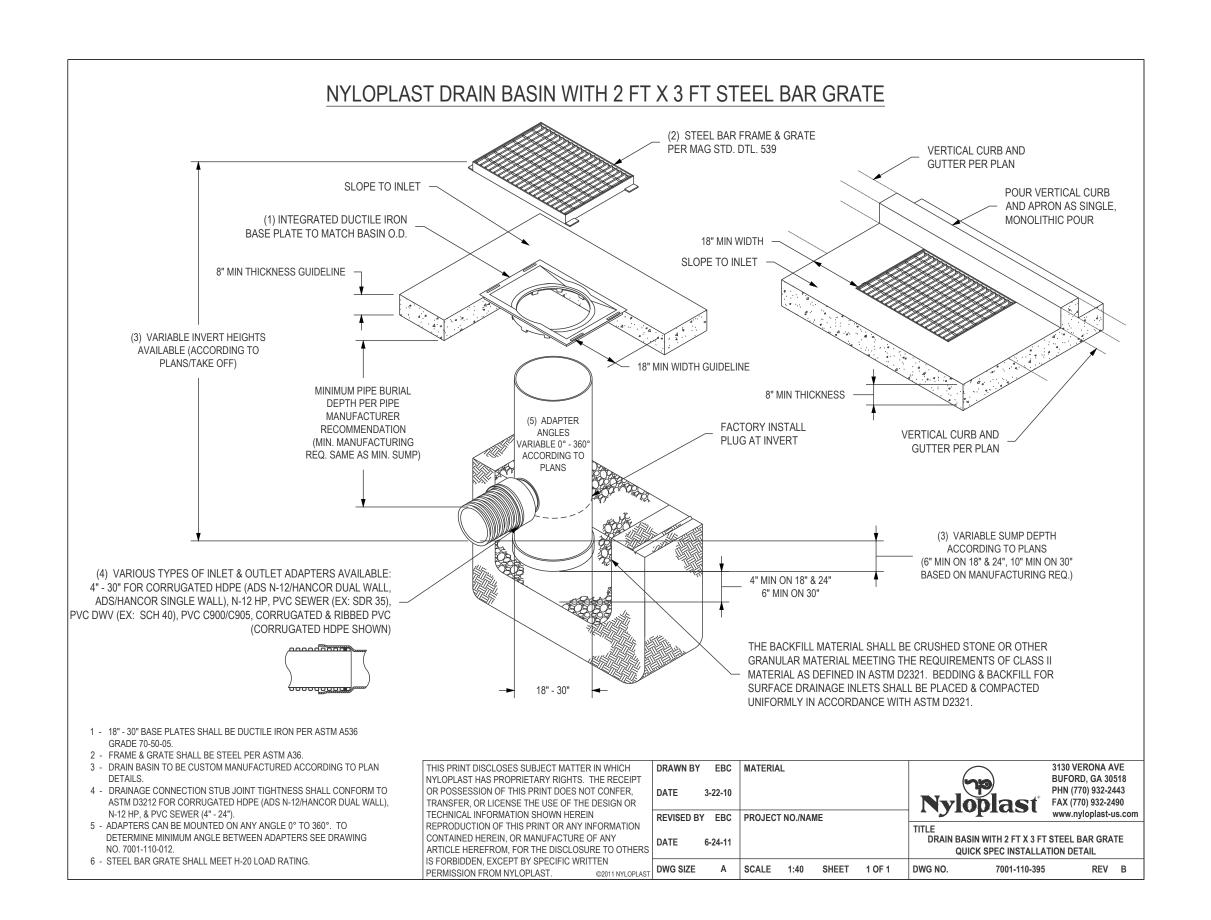
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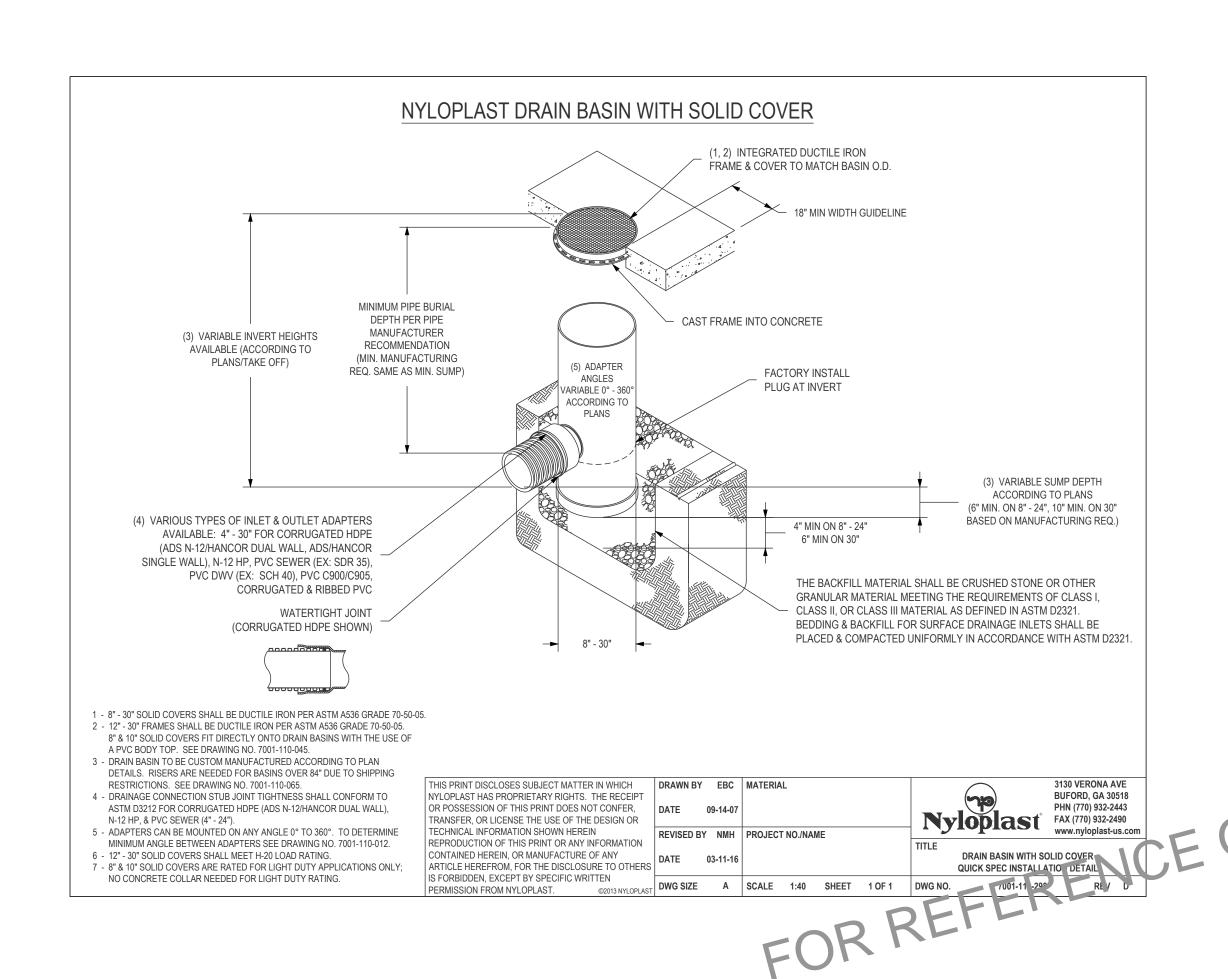
PLAN





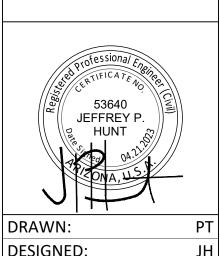






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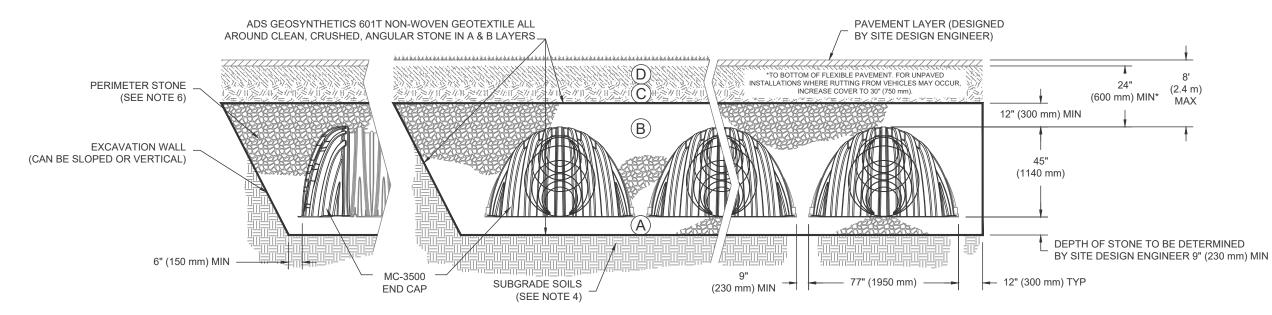
ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

	MATERIAL LOCATION	ATERIAL LOCATION DESCRIPTION		COMPACTION / DENSITY REQUIREMENT
D	INAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS ROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED OF RADE ABOVE. NOTE THAT PAVEMENT SUBBASE IAY BE PART OF THE 'D' LAYER ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.		N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
С	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	OR	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
В	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 4	NO COMPACTION REQUIRED.
	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2 3}

PLEASE NOTE: 1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE."

ANGULAR NO. 4 (AASHTO M43) STONE' STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.

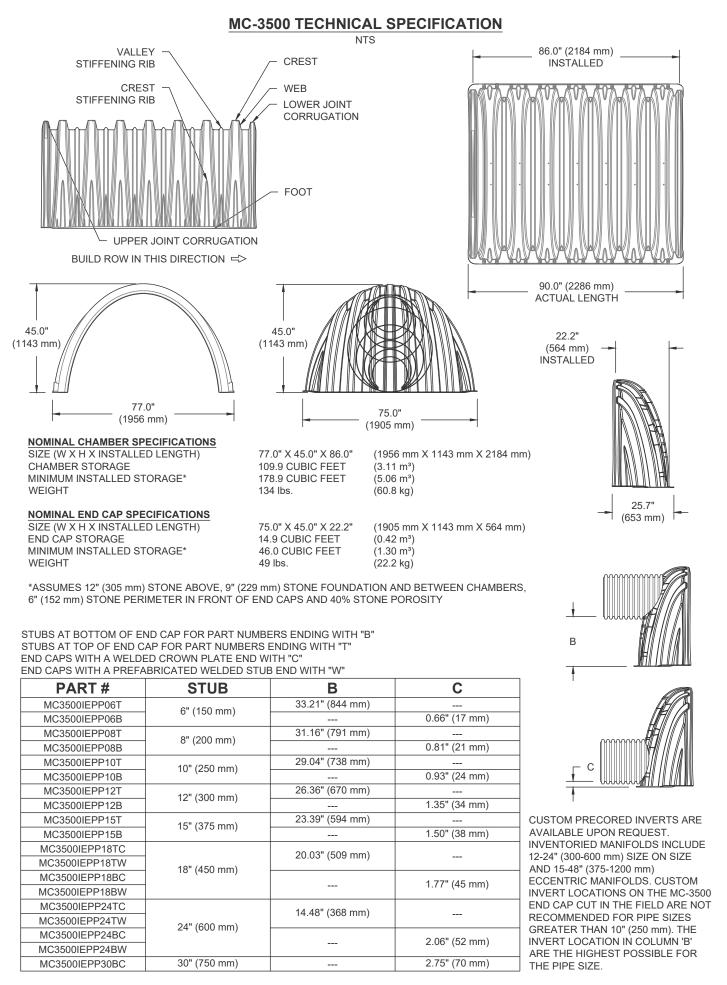
. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



*FOR COVER DEPTHS GREATER THAN 8.0' (2.4 m) PLEASE CONTACT STORMTECH

NOTES:

- 1. MC-3500 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS'
- MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH
- CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C
- OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



NOTE: ALL DIMENSIONS ARE NOMINAL

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- OPTIONAL INSPECTION PORT COVER PIPE CONNECTION TO END CAP WITH ADS GEOSYNTHETICS 6017 - MC-3500 CHAMBER STORMTECH HIGHLY RECOMMENDS FLEXSTORM PURE INSERTS IN ANY UPSTREAM STRUCTURES WITH OPEN GRATES TOP" ELEVATION PER PLAN - MC-3500 END CAP CATCH BASIN "BOTTOM" ELEVATION MANHOLE SUMP DEPTH TBD BY SITE DESIGN ENGINEER (24" [600 mm] MIN RECOMMENDED) TWO LAYERS OF ADS GEOSYNTHETICS 315WTM WOVEN 24" (600 mm) HDPE ACCESS PIPE REQUIRED USE FACTORY PRE-CORED END CAP PART #: GEOTEXTILE BETWEEN FOUNDATION STONE AND CHAMBERS MC3500IEPP24BC OR MC3500IEPP24BW 8.25' (2.51 m) MIN WIDE CONTINUOUS FABRIC WITHOUT SEAMS

MC-3500 ISOLATOR ROW DETAIL

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT A. INSPECTION PORTS (IF PRESENT)

- A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
- A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG A.4. LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
- A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3. B. ALL ISOLATOR ROWS
- B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
- i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED . APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN

VACUUM STRUCTURE SUMP AS REQUIRED

- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

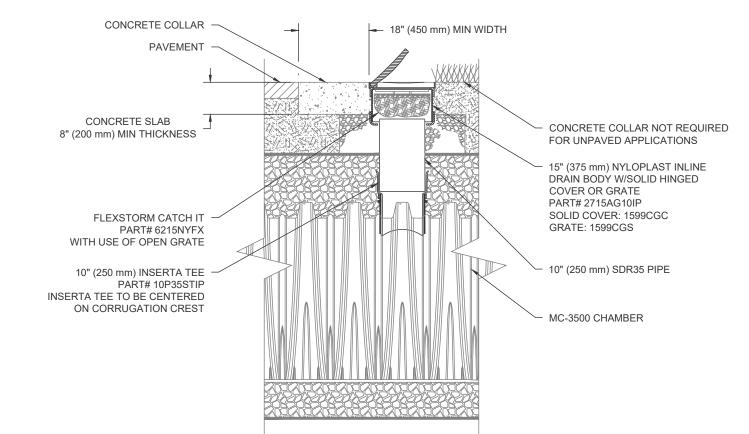
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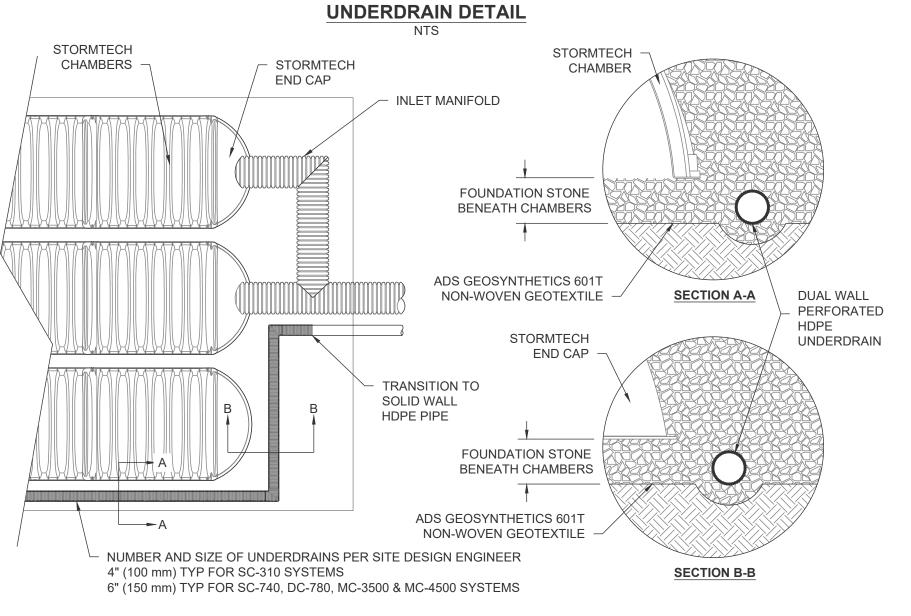
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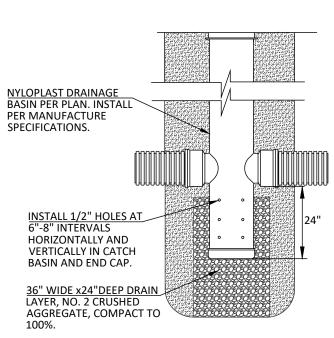
Maricopa County: (602) 263-1

- 1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- 2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



MC-3500 10" INSPECTION PORT DETAIL





SUMP DETAIL

N.T.S.

STORM WATER CHAMBER SPECIFICATIONS

- 1. CHAMBERS SHALL BE STORMTECH MC-3500, OR APPROVED EQUAL.
- 2. CHAMBERS SHALL BE MANUFACTURED FROM VIRGIN POLYPROPYLENE OR POLYETHYLENE RESINS.
- 3. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- 4. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- 5. CHAMBERS SHALL MEET ASTM F2922 (POLYETHYLENE) OR ASTM F2418 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- 6. CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOADS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- 7. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
- a. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY AASHTO FOR THERMOPLASTIC PIPE.
- A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET. THE 50 YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2418 OR ASTM F2922 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.
- STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL **EVALUATION IS BASED.**
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

NOTES FOR THE BIDDING AND INSTALLATION

- STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500 CONSTRUCTION GUIDE"
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH **RECOMMENDS 3 BACKFILL METHODS:** • STONESHOOTER LOCATED OFF THE CHAMBER BED. • BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE. • BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- 4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- 5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- 6. MAINTAIN MINIMUM 9" (230 mm) SPACING BETWEEN THE CHAMBER
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm).
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

- STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500 CONSTRUCTION GUIDE".
- 2. THE USE OF CONSTRUCTION EQUIPMENT OVER MC-3500 CHAMBERS IS
- NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS. • NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500 CONSTRUCTION GUIDE"
- WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500 CONSTRUCTION GUIDE".
- FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

FOR REFERENCE ONL)

Q.S.: 07-06



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DRAWN: **DESIGNED**: CHECKED: DATE: 04-21-2023 JOB NO: 22.152 SHEET NUMBER

LANDSCAPE NOTES:

- 1. PRIOR TO BIDDING, THE LANDSCAPE CONTRACTOR SHALL WALK THE SITE TO DETERMINE THE FULL EXTENT OF DEMOLITION WORK (IF REQUIRED).
- 2. PRIOR TO CONSTRUCTION, THE LANDSCAPE CONTRACTOR AND AN OWNER'S REPRESENTATIVE SHALL INSPECT THE SITE AND DOCUMENT ANY DAMAGE TO SIDEWALKS, CURBS OR OTHER HARDSCAPES. ALL AREAS TO BE RE-INSPECTED UPON FINAL WALK THROUGH AND ANY DAMAGED AREAS TO BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 3. LANDSCAPE CONTRACTOR TO REVIEW ALL RELATED ENGINEERING, ARCHITECTURAL AND DRAINAGE PLANS AND COORDINATE WITH THE APPROPRIATE CONTRACTOR ON ANY ITEMS WITH OVERLAPPING SCOPE. ANY DISCREPANCIES BETWEEN THE LANDSCAPE PLAN AND ANY OTHER CONSULTANT PLANS MUST BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
- 4. PRIOR TO CONSTRUCTION, ANY CLARIFICATIONS OR DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND THE SITE CONDITIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.
- 5. LANDSCAPE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL UNDERGROUND UTILITIES FOR PROTECTION PRIOR TO CONSTRUCTION. CONTACT BLUE STAKE AT 602-263-1100 OR 1-800-782-5348.
- 6. LANDSCAPE CONTRACTOR TO PROVIDE BARRICADES ALONG PUBLIC STREETS IF REQUIRED DURING INSTALLATION.
- 7. ALL QUANTITIES ON THE PLANT LIST ARE PROVIDED AS A CONVENIENCE TO THE CONTRACTOR, PLANS TAKE PRECEDENCE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD ESTIMATE ALL DECOMPOSED GRANITE QUANTITIES.
- 8. THE LANDSCAPE CONTRACTOR SHALL WARRANTY ALL HARDSCAPES, IRRIGATION COMPONENTS AND TREES FOR A PERIOD OF 1 YEAR. SHRUBS, ACCENTS AND GROUND COVERS SHALL CARRY A 90 DAY WARRANTY.
- 9. ALL PLANTS MUST BE INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO PLANTING. THE OWNER AND/OR LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REFUSE ANY PLANT MATERIAL DEEMED IN ADEQUATE OR NOT MEETING NURSERYMAN STANDARDS.
- 10. DUE TO SEASONAL PLANT MATERIAL AVAILABILITY, ALL ALTERNATES AND/OR SUBSTITUTIONS ARE TO BE APPROVED BY THE LANDSCAPE ARCHITECT, OWNER OR JURISDICTION.
- 11. PLANTS TO BE LOCATED AWAY FROM OBSTACLES SUCH AS FIRE HYDRANTS, TRANSFORMERS, POWER POLES, AND LIGHT FIXTURES AS NECESSARY.
- 12. LANDSCAPE CONTRACTOR TO CONTACT THE G.C. OR OWNER'S REPRESENTATIVE BEFORE EACH
- APPLICATION OF PRE-EMERGENT FOR VERIFICATION. MINIMUM 2 APPLICATIONS REQUIRED.

 13. PREPARED BACKFILL FOR PLANTING PITS SHALL BE 4 PARTS NATIVE SOIL TO 1 PART NITROGEN STABILIZED MULCH. MIX MULCH AND SOIL BACKFILL THOROUGHLY TO CREATE BACKFILL PRIOR TO PLACING IN PIT.
- 14. TOPSOIL TO CONFORM TO THE REQUIREMENTS OF MAG SPECIFICATION, SECTION 795. PROVIDE A WRITTEN DESCRIPTION OF CERTIFICATION OF ORIGINAL ORIGIN OF TOPSOIL TO LANDSCAPE ARCHITECT PRIOR TO DELIVERY TO THE SITE.
- 15. PROVIDE THE G.C. AND/OR OWNER A SAMPLE OF DECOMPOSED GRANITE FOR APPROVAL PRIOR TO DELIVERY TO THE SITE.UNLESS OTHERWISE NOTED ON PLANS, DECOMPOSED GRANITE SHALL EXTEND UNDER SHRUBS AND BE RAKED UNIFORMLY ALONG WALLS, SIDEWALKS, AND CURBS.
- 16. LANDSCAPE MAINTENANCE WITHIN THE PUBLIC RIGHT OF WAY SHALL BE THE RESPONSIBILITY OF THE OWNER.

IRRIGATION NOTES:

- 1. PRIOR TO CONSTRUCTION, THE LANDSCAPE CONTRACTOR IS TO COORDINATE ALL SLEEVING LOCATIONS WITH THE GENERAL CONTRACTOR AND/OR PAVING CONTRACTOR TO ENSURE THAT ALL SLEEVES ARE INSTALLED PRIOR TO PAVING. VERIFY ANY EXISTING SLEEVES THAT MAY HAVE BEEN PREVIOUSLY INSTALLED.
- 2. PRIOR TO CONSTRUCTION, VERIFY STATIC WATER PRESSURE. CONTACT LANDSCAPE ARCHITECT IF STATIC PRESSURE IS NOT ADEQUATE FOR LISTED DESIGN PRESSURE ON THE IRRIGATION PLANS.
- 3. MAINTAIN IRRIGATION AS-BUILTS THROUGHOUT INSTALLATION. AS-BUILT SET TO BE TURNED OVER TO OWNER PRIOR TO ACCEPTANCE OF THE IRRIGATION INSTALL.
- 4. VACUUM BREAKER/BACKFLOW PREVENTION DEVICE TO BE ASSEMBLED PER LOCAL JURISDICTIONAL STANDARDS AND DETAILS.
- 5. CONTRACTOR IS RESPONSIBLE FOR SUPPLYING MATERIALS AND LABOR TO PROVIDE SPECIFIED ELECTRICAL SERVICE TO ALL CONTROLLER LOCATIONS. ALL ELECTRICAL WORK TO BE PER MANUFACTURER'S SPECIFICATIONS AND PER LOCAL CODE.
- 6. ALL IRRIGATION EQUIPMENT TO BE LOCATED IN LANDSCAPE AREAS- ALL LINES AND EQUIPMENT ARE SCHEMATIC.
- 7. ALL MATERIAL USED SHALL BE INSTALLED AS PER PLAN AND AS PER MANUFACTURERS SPECIFICATIONS. ALL DEVIATIONS FROM DRAWINGS OR MATERIALS USED SHALL BE APPROVED BY OWNER'S REPRESENTATIVE AND OR LANDSCAPE ARCHITECT.
- 8. USE COMMON TRENCHES WHERE POSSIBLE. SEE DETAILS FOR TRENCHING AND MINIMUM IRRIGATION PIPE BURY DEPTHS.
- 9. CONTROLLER WIRE SHALL BE A DIFFERENT COLOR FOR TREE LINES & SHRUB LINES. AT LEAST THREE EXTRA CONTROL WIRES TO BE RUN TO THE FARTHEST VALVE LOCATION OF THE SYSTEM.
- 10. IRRIGATION LINES SHALL RUN PARALLEL TO THE HIGH SIDE OF SLOPES.
- 11. AN 18 GAUGE TRACER WIRE OF A DIFFERENT COLOR THAN THE CONTROL WIRES SHALL BE INSTALLED WITH ALL MAINLINES.
- 12. INSTALL ELECTRIC VALVES IN PLASTIC VALVE BOXES FLUSH WITH GRADE. ALL BOXES TO BE PLACED IN INCONSPICUOUS LOCATIONS AS POSSIBLE. AVOID INSTALLING VALVE BOXES AT THE BOTTOM OF ANY RETENTION AREAS WHERE PONDING IS POSSIBLE.
- 13. ALL PEA GRAVEL IN VALVE BOXES TO BE CLEANED FROM TOP OF VALVE SO THAT VALVE IS COMPLETE VISIBLE, LIP OF VALVE BOX IS ALSO TO BE FREE OF DEBRIS.
- 14. EMITTERS TO BE PLACED ON THE UPHILL SIDE OF THE PLANTS. ALL PLANTS REQUIRING MORE THAN ONE DRIP EMITTER SHALL HAVE EMITTERS DISTRIBUTED EVENLY AROUND THE EDGE OF THE ROOT-BALL.
- 15. CONTRACTOR TO CAP OFF ALL IRRIGATION AT PHASING LIMITS AS REQUIRED, AND MARK APPROPRIATELY FOR EASY LOCATION UPON FUTURE EXPANSION.
- 16. PRIOR TO OWNERS APPROVAL, AN IRRIGATION "TUNE-UP" MUST BE PERFORMED AS FOLLOWS:
- A. ALL IRRIGATION EQUIPMENT (INCLUDING ALL PIPELINES AND SLEEVES) TO BE DOCUMENTED FROM TWO STATIONARY POINTS. (AS-BUILTS PER #2 ABOVE).
- B. IRRIGATION VALVES TO BE LABELED ON A SHEET OF PAPER WITH STATIONS CORRESPONDING TO MARKED LABELS ON TOP OF VALVE BOXES. THIS SHEET TO BE PLACED IN A PLASTIC POUCH AND ATTACHED TO THE INSIDE OF CONTROLLER.
- C. ALL DRIP SYSTEMS TO BE FLUSHED BEGINNING WITH "Y" STRAINER, AND WORKING AWAY FROM PRESSURE REGULATOR.

 ALL IRRIGATION SPRAY HEADS TO BE FLUSHED OF DERRIS AND FLOW CONTROLS/RADIUS
- D. ALL IRRIGATION SPRAY HEADS TO BE FLUSHED OF DEBRIS AND FLOW CONTROLS/RADIUS ADJUSTED TO ACHIEVE 100% COVERAGE. AVOID OVER-SPRAY ONTO ALL WALKS, CURBS, WALLS, EXISTING STRUCTURES OR ANOTHER OTHER HARDSCAPE AREA. ADJUST ALL HEADS/ROTORS TO PROPER HEIGHTS AND VERTICAL ALIGNMENT.
- E. ENSURE THAT NO CONTROL WIRE WAS DAMAGED DURING CONSTRUCTION AND THAT ALL VALVES ARE ELECTRONICALLY OPERABLE BY THE CONTROLLER.
- F. AUDIT ENTIRE SYSTEM FOR LEAKS OR DAMAGE DURING CONSTRUCTION.

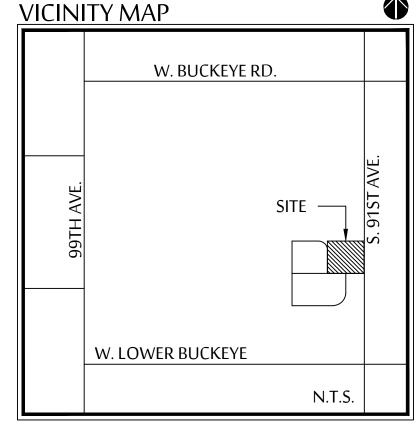
PLANT LEGEND

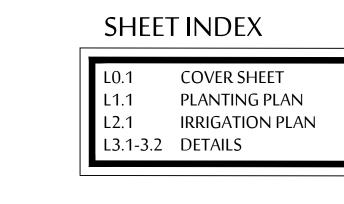
SYMBOL	BOTANICAL NAME - COMMON NAME	QTY.	SIZE	COMMENTS
TR	EES			
(·)	ACACIA ANEURA - MULGA TREE	6	24" BOX	STANDARD
	CHILOPSIS LINEARIS - DESERT WILLOW	18	24 " BOX	STANDARD
	PROSOPIS HYBRID 'PHOENIX' - THORNLESS MESQUITE	10	24" BOX	MULTI-TRUNK
E GOOD OF THE PERSON OF THE PE	PISTACIA LENTICUS - MASTIC TREE	7	24" BOX	STANDARD
SHF	RUBS			
	CAESALPINIA PULCHERRIMA - RED BIRD OF PARADISE	10	5 GAL	FULL CAN
	LARREA TRIDENTATA - CREOSOTE BUSH	11	5 GAL	FULL CAN
	CALLIANDRA CALIFORNICA - RED FAIRY DUSTER	12	5 GAL	FULL CAN
	CALLISTEMON VIMINALIS 'LITTLE JOHN' - 'LITTLE JOHN' DWARF BOTTLE BRUSH	9	5 GAL	FULL CAN
\triangle	EREMOPHILA HYGROPHANA - BLUE BELLS	24	5 GAL	FULL CAN
	LEUCOPHYLLUM FRUTESCENS 'GREEN CLOUD' - 'GREEN CLOUD' TEXAS RANGER	17	5 GAL	FULL CAN
	RUELLIA PENINSULARIS - DESERT RUELLIA	14	5 GAL	FULL CAN
	SPHAERALCEA AMBIGUA - GLOBE MALLOW	22	5 GAL	FULL CAN
ACC	ENTS			
SB.	AGAVE WEBERI - BLUE AGAVE	7	5 GAL	FULL CAN
W *	DASYLIRION WHEELERI - DESERT SPOON	14	5 GAL	FULL CAN
	MUHLENBERGIA RIGENS - DEER GRASS	12	5 GAL	FULL CAN
	BOUTELOUA GRACILIS - BLONDE AMBITION GRASS	36	5 GAL	FULL CAN
	HESPERALOE PARVIFLORA - RED/YELLOW HESPERALOE (50/50 MIX)	14	5 GAL	FULL CAN
	ASCLEPIAS SUBULATA - DESERT MILKWEED	7	5 GAL	FULL CAN
GRO	OUND COVERS			
	ACACIA REDOLENS 'LOW BOY' - TRAILING ACACIA	35	5 GAL	FULL CAN
	LANTANA MONTEVIDENSIS - PURPLE TRAILING LANTANA	43	5 GAL	FULL CAN
	LANTANA X 'NEW GOLD' - NEW GOLD LANTANA	48	5 GAL	FULL CAN
	DECOMPOSED GRANITE - SIZE/COLOR TO MATCH EXISTING	10,762	2 SQ.FT.	

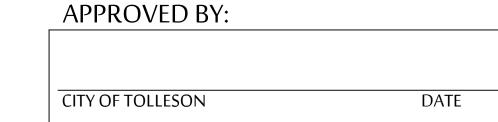
ARCHITECT

ARCHITECTURAL RESOURCE TEAM
1055 E. INDIAN SCHOOL RD.
PHOENIX, ARIZONA 85214
(602)307-5399
CONTACT: DONNELLA QUIJANO
dquijano@art-team.com

LANDSCAPE ARCHITECT MCGOUGH ADAMSON 535 E. MCKELLIPS RD., SUITE 131 MESA, AZ 85203 (602)997-9093 CONTACT: NICK ADAMSON, RLA nicka@mg-az.com











Landscape Architects
Land Planning
Irrigation

535 E. MCKELLIPS RD. SUITE 131 MESA, ARIZONA 85203 PHONE: (602) 997-9093



SHEET OLIC CHARITIES SIDE HEAD START - TOLLESO

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JOB NO. XX-XX

DATE: 03-31-23

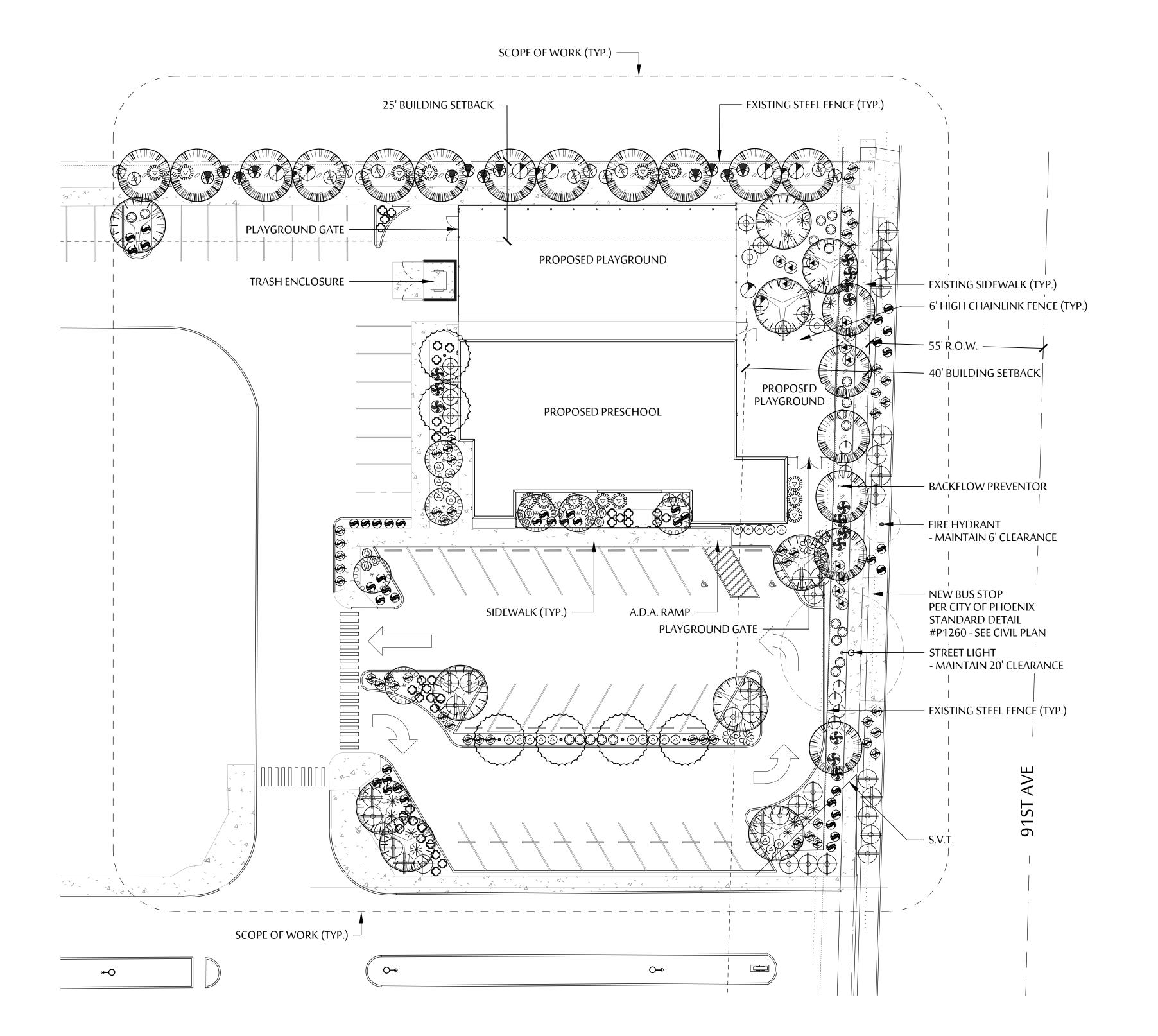
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PLANT LEGEND					
SYMBOL	BOTANICAL NAME - COMMON NAME				
TRE	ES				
	ACACIA ANEURA - MULGA TREE				
	CHILOPSIS LINEARIS - DESERT WILLOW				
	PROSOPIS HYBRID 'PHOENIX' - THORNLESS MESQUITE				
E CONTROL OF THE PROPERTY OF T	PISTACIA LENTICUS - MASTIC TREE				
SHR	UBS				
	CAESALPINIA PULCHERRIMA - RED BIRD OF PARADISE				
	LARREA TRIDENTATA - CREOSOTE BUSH				
	CALLIANDRA CALIFORNICA - RED FAIRY DUSTER				
	CALLISTEMON VIMINALIS 'LITTLE JOHN' - 'LITTLE JOHN' DWARF BOTTLE BRUSH				
	EREMOPHILA HYGROPHANA - BLUE BELLS				
	LEUCOPHYLLUM FRUTESCENS 'GREEN CLOUD' - 'GREEN CLOUD' TEXAS RANGER				
	RUELLIA PENINSULARIS - DESERT RUELLIA				
	SPHAERALCEA AMBIGUA - GLOBE MALLOW				
ACCI	ENTS				
\$23	AGAVE WEBERI - BLUE AGAVE				
W	DASYLIRION WHEELERI - DESERT SPOON				
	MUHLENBERGIA RIGENS - DEER GRASS				
	BOUTELOUA GRACILIS - BLONDE AMBITION GRASS				
	HESPERALOE PARVIFLORA - RED/YELLOW HESPERALOE (50/50 MIX)				
	ASCLEPIAS SUBULATA - DESERT MILKWEED				
GRO	UND COVERS				
	ACACIA REDOLENS 'LOW BOY' - TRAILING ACACIA				
	LANTANA MONTEVIDENSIS - PURPLE TRAILING LANTANA				
	LANTANA X 'NEW GOLD' - NEW GOLD LANTANA				
	DECOMPOSED GRANITE - SIZE/COLOR TO MATCH EXISTING				



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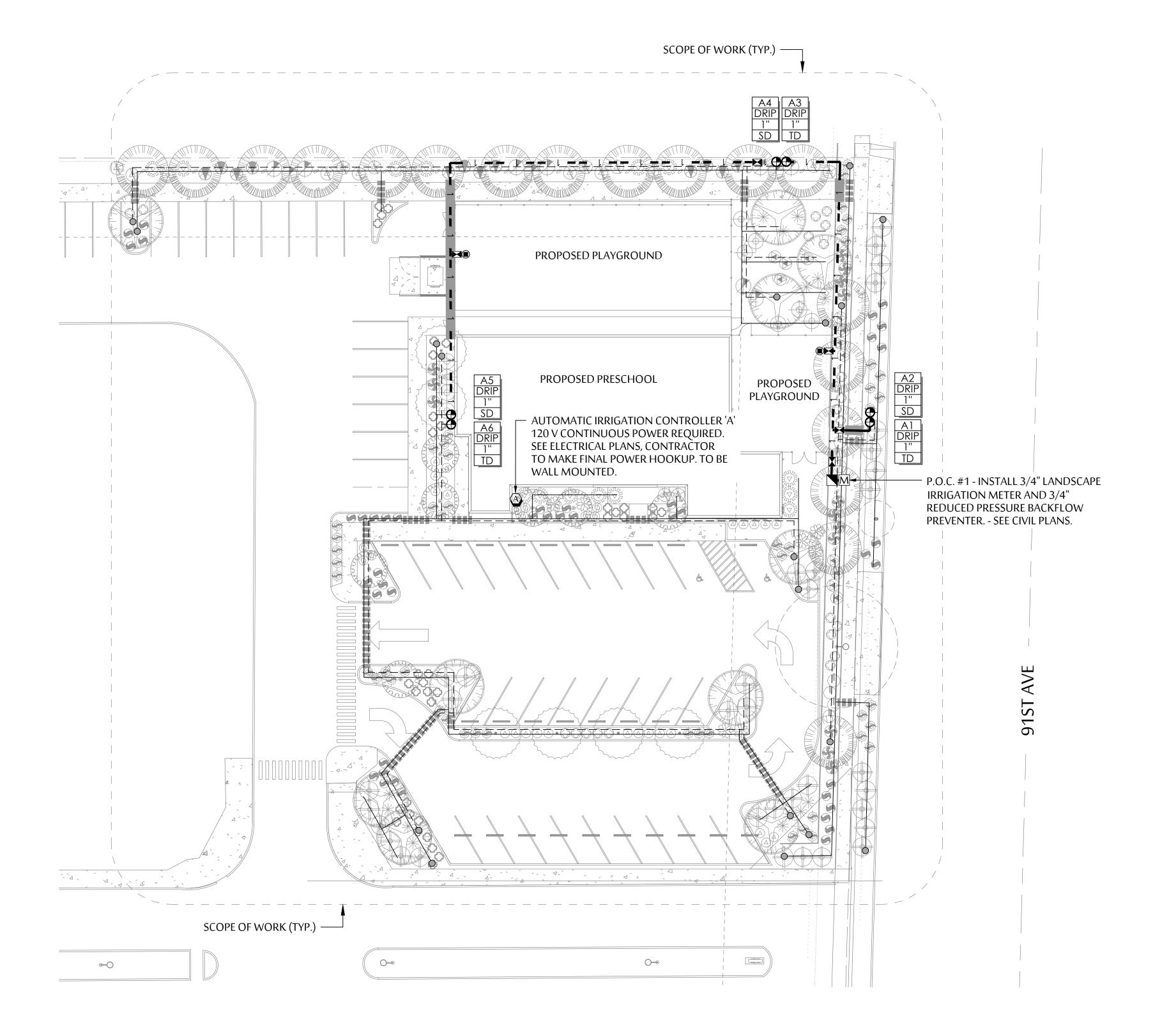
NORTH

SCALE: 1"=20'-0"

0' 10' 20' 40'

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IRRIGATION LEGEND

SYMBOL	SPECIFICATION
M	WATER METER - SIZE PER PLANS; COORDINATE LOCATION AND INSTALLATION W/ OWNER'S REPRESENTATIVE OF METER. SEE CIVIL PLANS FOR EXACT LOCATIONS.
	FEBCO 825YA REDUCED PRESSURE BACKFLOW PREVENTOR - SIZE PER PLANS.
A	HUNTER I-CORE SERIES CONTROLLER (6 TOTAL STATIONS) A = IC-600-SS
# 	MAINLINE: SIZE AS PER PLAN- SCH. 40 PVC.
	PVC LATERAL (TREES) - SCH. 40 PVC MIN. SEE EMITTER SCHEDULE FOR TREE/EMITTER APPLICATION
	PVC LATERAL (SHRUBS, VINES GROUNDCOVERS) - SCH. 40 PVC MIN. SEE EMITTER SCHEDULE FOR EMITTER APPLICATION
	HAMMOND 667 GATE VALVE- SAME SIZE AS MAINLINE.
	HUNTER ICZ-101 - ELEC. REMOTE CONTROL DRIP VALVE ASSEMBLY; SIZE AS NOTED ON PLAN.
	HUNTER HQ-44LRC LOCKING QUICK COUPLER
	FLUSH VALVE ASSEMBLY.
	SCHEDULE SCH 40 PVC SLEEVE. SEE SLEEVING SCH.
	ADD 2" SCHEDULE SCH 40 PVC SLEEVE FOR CONTROL WIRE WHERE NECESSARY.
A1 DRIP 1" SD	CONTROLLER AND STATION. FLOW - GALLONS PER MINUTE (SEE PIPE SIZING SCH.) VALVE SIZE VALVE I.D SD=SHRUB DRIP, TD=TREE DRIP
	SEE SHEET L3.2 FOR ALL IRRIGATION DETAILS

CONTRACTOR MUST HAVE OWNER/LANDSCAPE ARCHITECT APPROVAL FOR ALL IRRIGATION EQUIPMENT ALTERNATES/EQUIVALENTS

EMITTER SCHEDULE

TREES: ALL TREES TO RECEIVE (2) HUNTER RZWS-36 ROOT WATERING TUBES. EACH TUBE TO BE SET UP AS SPECIFIED BELOW.

- USE RZWS, 4" DIAMETER X 36" DEPTH TUBES.

- USE MPE-10 MULTI-PORT EMITTERS IN EACH TUBE.

- (4) PORTS ARE TO REMAIN IN THE RZWS TREE TUBE.

- (2) PORTS ARE TO RUN TO THE SURFACE,

EQUALLY SPACED AROUND THE TRUNK.

SHRUBS/GROUND COVERS:

- USE HUNTER MPE-20 MULTI-PORT EMITTERS - (1) PORT PER SHRUB/GROUND COVER

ACCENTS:

- USE HUNTER MPE-10 MULTI-PORT EMITTERS - (1) PORT PER ACCENT PLANT

* MULTI-PORT EMITTERS TO BE INSTALLED IN 6" ECONOMY BOXES.

SCALE: 1"=20'-0"

0' 10' 20' 40'

** MAXIMUM $\frac{1}{4}$ " POLY TUBE RUN TO BE 5' IN LENGTH.



MCGOUGH ADAMSON



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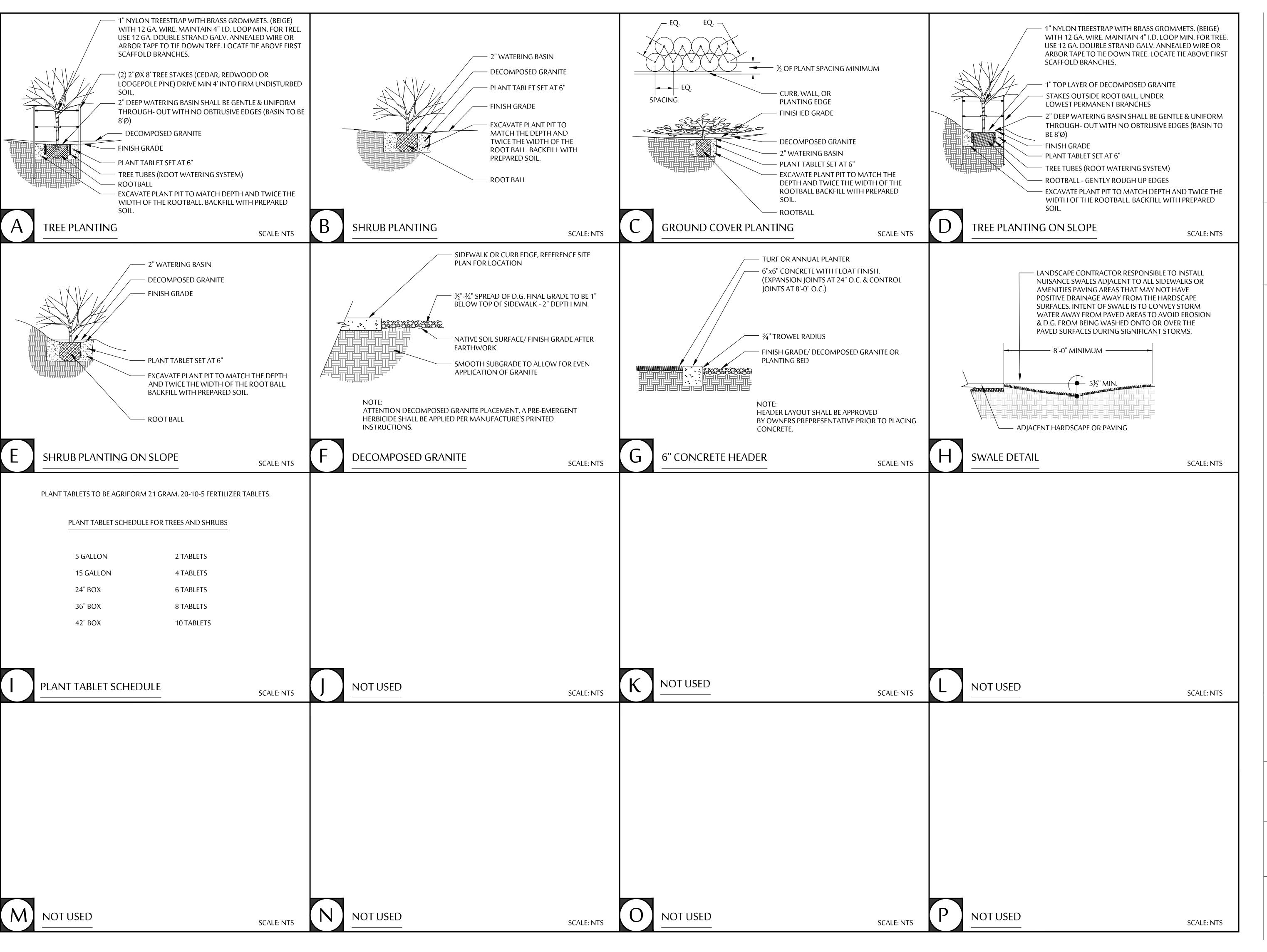
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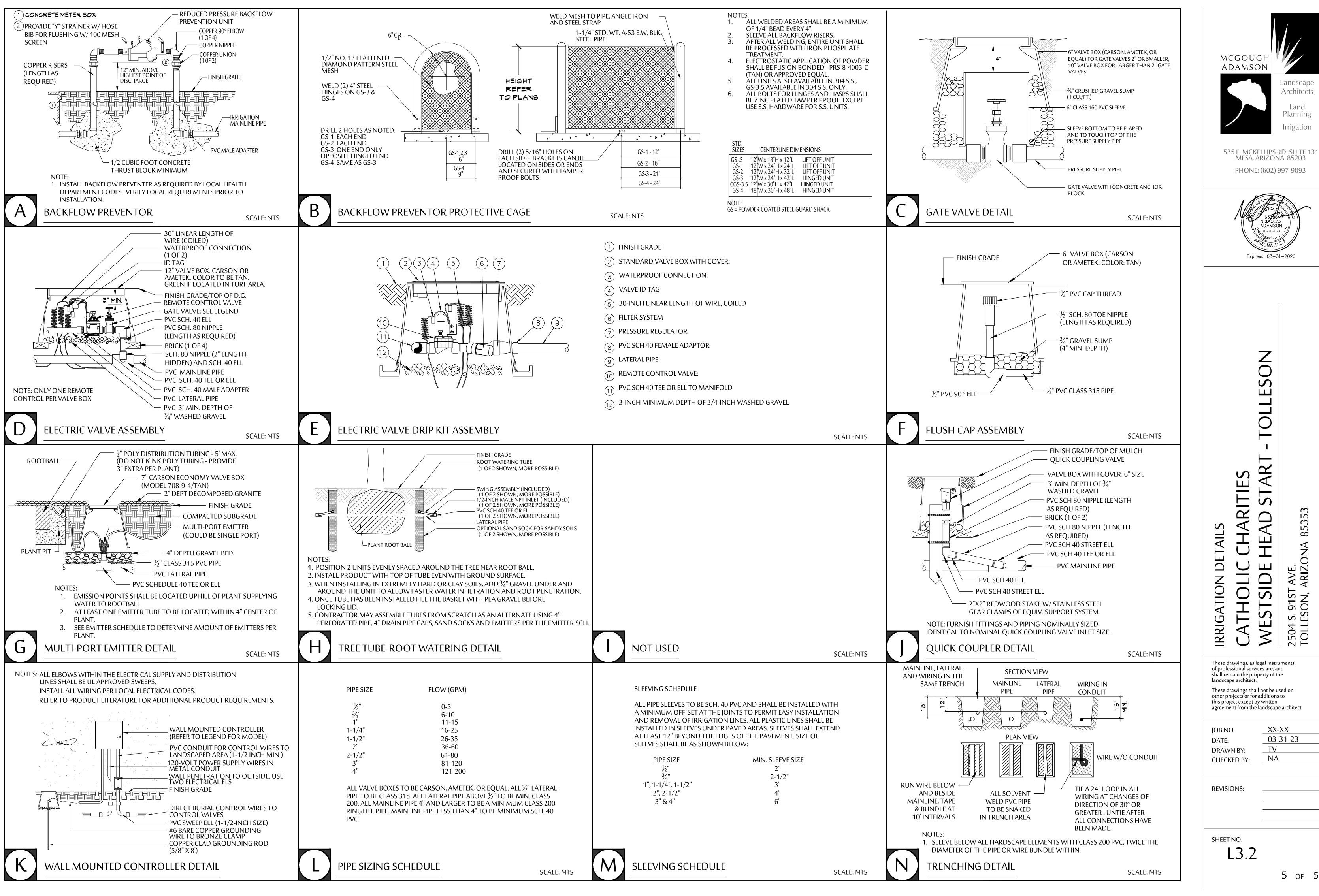
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BUILDING CODE:

2018 INTERNATIONAL BUILDING CODE, (IBC) WITH APPLICABLE CITY AMENDMENTS.

GENERAL STRUCTURAL NOTES

GRAVITY LOADS:

ROOF LIVE LOAD = 20 PSF (REDUCIBLE).ROOF DEAD LOAD = 25 PSF. (INCLUDING 7 PSF FOR FUTURE SOLAR PANEL SYSTEM)

LATERAL LOADS:

ULTIMATE DESIGN WIND SPEED = 105 MPH (3s GUST). NOMINAL DESIGN WIND SPEED = 85 MPH (3s GUST). RISK CATEGORY: II WIND EXPOSURE: INTERNAL PRESSURE COEFFICIENT (ENCLOSED BUILDINGS): +0.18 / -0.18 COMPONENTS & CLADDING WIND PRESSURE: 30 PSF (LRFD) OR 18 PSF (ASD) - END ZONE 25 PSF (LRFD) OR 15 PSF (ASD) - TYPICAL 61 PSF (LRFD) OR 37 PSF (ASD) - PARAPET

SEISMICITY: RISK CATEGORY II SEISMIC IMPORTANCE FACTOR: IE = 1.0

MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS: (Ss = 0.172, S1 = 0.070) DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS: (Sos = 0.149, So1 = 0.070) SEISMIC DESIGN CATEGORY: B BASIC SEISMIC FORCE RESISTING SYSTEM: A.15 PER ASCE 7-16 TABLE 12-2.1 SFISMIC RESPONSE COEFFICIENT, Cs = 0.023W (LRFD) OR 0.016W (ASD) RESPONSE MODIFICATION FACTOR R = 6.5ANALYSIS PROCEDURE USED: EQUIVALENT FORCE METHOD

FOUNDATIONS:

REFER TO SOILS REPORT AND DETAIL OI FOR ADDITIONAL INFORMATION PRIOR TO COMMENCEMENT OF EARTHWORK. BEFORE ANY CONCRETE IS PLACED, EXCAVATION SHALL BE CHECKED AND APPROVED BY A QUALIFIED SOILS ENGINEER.

DESIGN IS BASED ON SOIL REPORT NO. G19099 BY RAMM, INC. DATED NOVEMBER 3, 2011 ALONG WITH SUPPLEMENTAL LETTER G28938 DATED FEBRUARY 10. 2023. SPREAD FOOTINGS SHALL BEAR ON UNDISTURBED NATIVE SOILS OR ENGINEERED FILL 1'-6" MINIMUM BELOW ADJACENT FINISHED GRADE, PAD GRADE OR EXISTING GRADE AS STATED IN SOILS REPORT. FINISHED GRADE IS DEFINED AS TOP OF SLAB FOR INTERIOR FOOTINGS AND LOWEST ADJACENT GRADE WITHIN 5 FEET OF PERIMETER FOOTINGS. DESIGN SOIL BEARING VALUE: 1,500 PSF.

SIMPLY STRUCTURAL INC. CAN NOT BE HELD RESPONSIBLE FOR FUTURE PROBLEMS ARISING FROM

STRUCTURAL CONCRETE:

ALL CAST-IN-PLACE CONCRETE CONSTRUCTION HAS BEEN DESIGNED ACCORDING TO ACI 318-14 AND SHALL CONFORM TO THE FOLLOWING:

> CEMENT SHALL CONFORM TO ASTM C-150 TYPE II. MIXING SHALL CONFORM TO ASTM C-94. AGGREGATES (NORMAL WEIGHT CONCRETE) SHALL CONFORM TO ASTM C-33.

THE MINIMUM COMPRESSIVE STRENGTH OF CONCRETE (F'c) AT 28 DAYS SHALL BE:

FOUNDATIONS (DESIGN BASED ON 2,500 PSI) ---- 3,000 PSI SLABS ON GRADE AND STEM WALLS ---- 3,500 PSI (W/C RATIO = 0.53 MAX)

- ALL CONCRETE SHALL BE MECHANICALLY VIBRATED AND THOROUGHLY CONSOLIDATED DURING PLACEMENT AND SHALL BE THOROUGHLY WORKED AROUND REINFORCEMENT AND EMBEDDED FIXTURES AND INTO CORNERS OF THE FORMS UNLESS NOTED OTHERWISE.
- 2. SLUMP RANGE SHALL BE 4-6 INCHES PRIOR TO ADMIXTURES. ADMIXTURES MAY NOT BE USED WITHOUT THE SPECIFIC PRIOR WRITTEN APPROVAL FROM THE ARCHITECT/STRUCTURAL ENGINEER. ADMIXTURES USING ANY FORM OF CHLORIDES SHALL NOT BE USED. CAST CLOSURE POUR AROUND COLUMNS AFTER COLUMN DEAD LOAD IS APPLIED.
- THE EMBEDMENT OF ANY CONDUITS, PIPES, SLEEVES, ETC. SHALL NOT BE PERMITTED WITHIN ANY NCRETE STRUCTURAL ELEMENT (IE: COLUMNS, BEAMS, ELEVATED SLABS, ETC.) WITHOUT WRITTEN APPROVAL FROM SIMPLY STRUCTURAL INC. UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- 5. FLY ASH IF PERMITTED BY ARCHITECTURAL SPECIFICATIONS, SHALL CONFORM TO "STANDARD SPECIFICATIONS FOR COAL FLY ASH AND RAW OR CALCINED NATURAL POZZOLAN FOR USE IN CONCRETE" (ASTM C 618). FLY ASH SHALL NOT BE USED IN ARCHITECTURALLY EXPOSED CONCRETE, ON SLABS WITH A BURNISHED OR ACID FINISH, OR WHERE IT COULD NEGATIVELY
- EFFECT ANY MATERIAL IN CONTACT WITH IT. 6. TESTING OF CONCRETE - SAMPLES FOR STRENGTH TESTS OF EACH CLASS OF CONCRETE PLACED EACH DAY SHALL BE TAKEN NOT LESS THAN: ONCE A DAY, NOR LESS THAN ONCE FOR EACH 150-YD3 OF CONCRETE NOR LESS THAN ONCE FOR EACH 5,000-FT2 OF SURFACE AREA FOR SLABS OR WALLS. SAMPLES SHALL BE TAKEN IN ACCORDANCE WITH "STANDARD PRACTICE FOR MAKING AND CURING CONCRETE TEST SPECIMENS IN THE FIELD" (ASTM C 31); AND TESTED IN ACCORDANCE WITH "STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF CYLINDRICAL
- CONCRETE SPECIMENS" (ASTM C 39). TEST DATA FOR CONCRÈTE SUBMITTALS - TEST DATA SHALL BE SUBMITTED FOR REVIEW PER ACI 318 CHAPTER 5. REFERENCE TABLE R5.3 FOR SPECIFIC REQUIREMENTS.

CONCRETE SLABS ON GRADE:

- CONCRETE SHALL BE BATCHED, MIXED, TRANSPORTED, PLACED, CONSOLIDATED AND FINISHED PER ACI 302.1R-04 FOR THE APPROPRIATE FLOOR CLASS TYPE PER TABLE 2.1. SEE TABLE 6.1 (ACI 302.1R-04) FOR RECOMMENDED STRENGTH AND MAXIMUM SLUMP AT POINT OF PLACEMENT FOR CONCRETE FLOORS. MIX DESIGN SHALL PROVIDE THE LARGEST PRACTICAL-SIZE AGGREGATE THAT DOES NOT EXCEED 3/4 OF THE MIN. CLEAR SPACING OF REINFORCING BARS OR 1/3 OF THE SLAB DEPTH.
- 2. CONCRETE SLABS ON GRADE REQUIRE MECHANICAL VIBRATION ONLY AT TRENCHES, FLOOR
- DUCTS, TURNDOWNS ETC. ALL CONCRETE SLABS ON GRADE SHALL BE BOUND BY SAW CUT CONTROL JOINTS, COLD JOINTS WITH DIAMOND PLATES PER LATEST ACI 302.1R TABLE 3.2, OR KEYED JOINTS. (KEYED JOINTS ARE NOT PERMITTED IN WAREHOUSES, WHERE FORKLIFTS WILL BE USED OR WHERE STORAGE RACKING WILL BE INSTALLED). JOINTS MAY NOT BE MODIFIED UNLESS APPROVED IN WRITING BY SIMPLY STRUCTURAL INC. AND THE ARCHITECT, AND MUST BE LOCATED AS SHOWN ON THE FOUNDATION PLAN. FOR UNREINFORCED PLAIN CONCRETE SLABS, MAXIMUM SPACING BETWEEN JOINTS SHALL BE 36 TIMES THE SLAB THICKNESS OR 15'-0" ON CENTER MAX. MAXIMUM RATIO OF LONG SIDE TO SHORT SIDE SHALL BE 1 1/2 TO 1. COLD JOINTS OR KEYED CONTROL JOINTS NEED ONLY OCCUR
- AT EXPOSED EDGES DURING POURING; ALL OTHER JOINTS MAY BE SAW CUT 4. ALL JOINTS SHALL BE FILLED AND OR SEALED AS SPECIFIED BY THE ARCHITECT. AT A MINIMUM, JOINTS SUBJECTED TO VEHICLES WITH HARD WHEELS SUCH AS FORKLIFTS SHALL BE FILLED WITH A SEMIRIGID EPOXY RESIN OR POLYUREAS CONSISTING OF 100%% SOLIDS THAT HAS A MINIMUM SHORE HARDNESS OF 80 WHEN MEASURED IN ACCORDANCE WITH ASTM D 2240. ACI 302.1R-04 ADVISES TO DEFER JOINT FILLING AND SEALING AS LONG AS POSSIBLE (60-90 DAYS MN.) TO MINIMIZED THE EFFECTS OF SHRINKAGE-RELATED JOINT OPENING ON THE FILLER OR SEALANT. SEMIRIGID AND POLYUREA FILLERS SHOULD BE INSTALLED FULL-DEPTH IN SUITABLY CLEAN
- VAPOR BARRIERS SHALL BE USED WHERE INDICATED ON FOUNDATION PLAN AND WHERE REQUIRED BY ARCHITECTURAL SPECIFICATIONS/DRAWINGS. VAPOR BARRIER MATERIAL SHALL BE IN COMPLIANCE WITH ASTM E 1745 AND THE THICKNESS SHALL BE 15 MILS OR GREATER. THE LAPS OR SEAMS SHALL BE OVERLAPPED 6" MINIMUM OR AS INSTRUCTED BY THE MANUFACTURER. JOINTS AND PENETRATIONS SHOULD BE SEALED WITH THE MANUFACTURER'S RECOMMENDED USING ADHESIVE. PRESSURE-SENSITIVE TAPE, OR BOTH. THE VAPOR BARRIER SHALL BE PLACED OVER THE A.B.C. AS SHOWN ON THE FOUNDATION PLAN. THE A.B.C. FILL SHALL BE PROTECTED FROM TAKING ON ADDITIONAL WATER PRIOR TO INSTALLATION OF THE VAPOR BARRIER.
- REINFORCING SPLICE LENGTHS IN CONCRETE U.N.O. #4 ----- 29"
- ALL EXPOSED CONCRETE SLAB-ON-GRADE SHALL BE WET CURED. 8. WHERE INDICATED ON PLAN, CONCRETE SLABS-ON-GRADE SHALL INCLUDE FIBER REINFORCEMENT IN THE CONCRETE MIX. THE FIBER REINFORCEMENT SHALL BE SYNTHETIC MACROFIBERS WHICH SHALL COMPLY WITH ASTM C 1116 TYPE 3, 1.5" TO 2" IN LENGTH AND ASPECT RATIO OF 50 (MIN) AND 90 (MAX). USE A FIBER DOSAGE TO PROVIDE A MINIMUM POST-CRACK RESIDUAL STRENGTH (Fe³) OF 120 PSI WHEN TESTED ACCORDING TO ASTM C1609. ACCEPTABLE PRODUCT: EUCLID CHEMICAL, TUF-STRAND SF OR MAXTEN AT 5.0 LBS/YD3 DOSAGE. CONTACT FIBER MANUFACTURER FOR MIX DESIGN AND PUMPING, PLACING AND FINISHING PRACTICES PRIOR TO

STRUCTURAL MASONRY:

(SPECIAL INSPECTION REQUIRED)

ALL MASONRY CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF IBC SECTION 21 AND LATEST EDITION OF ACI 530, ASCE6/TMS 602. ALL MASONRY UNITS SHALL BE LAID IN RUNNING BOND. ALL CELLS AND SPACES CONTAINING REINFORCING AND ALL MASONRY BELOW FINISHED GRADE SHALL BE FILLED WITH GROUT. GROUT SHALL BE VIBRATED BY MECHANICAL CONSOLIDATION IMMEDIATELY AFTER POURING AND AGAIN 5 TO 10 MINUTES LATER. CLEANOUTS REQUIRED IF GROUT LIFT EXCEEDS 5'-0" IN HEIGHT. WHERE REQUIRED, CLEANOUTS SHALL BE PROVIDED IN THE BOTTOM COURSE AT EVERY VERTICAL BAR BUT SHALL NOT BE SPACED MORE THAN 32" ON CENTER FOR SOLIDLY GROUTED MASONRY. BETWEEN GROUT POURS A HORIZONTAL CONSTRUCTION JOINT SHALL BE FORMED BY STOPPING ALL WYTHS AT THE SAME ELEVATION AND STOPPING GROUT POURS 1 1/2" MINIMUM BELOW A MORTAR JOINT (1/2" MINIMUM AT TOP OF WALL). PLACE VERTICAL CONTROL JOINTS IN MASONRY WALLS SUCH THAT NO STRAIGHT RUNS OF WALL EXCEEDS 24'-0" UNLESS NOTED OTHERWISE ON THE PLANS. CONTROL JOINTS SHALL NOT OCCUR WITHIN 24" OF: CONCENTRATED LOADS, WALL CORNERS, WALL INTERSECTIONS, OPENING JAMBS, WALL ENDS, OR OVER OPENINGS UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS. REINFORCING SPLICE LENGTHS IN

1	#5	IN	CELL	 31
2	#4 #5	IN IN	CELL CELL	 21 49

MASONRY PROPERTIES:

MASONRY WALL ASSEMBLY SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF I'M = 1.500 PSI U.N.O. MASONRY SHALL BE LAID UP IN A RUNNING BOND U.N.O. HOLLOW CONCRETE MASONRY UNITS SHALL BE ASTM C90, MEDIUM WEIGHT GRADE N, TYPE 1 WITH MINIMUM F'm = 1,900 PSI. MORTAR SHALL BE TYPE S AND SHALL COMPLY WITH ASTM C270 WITH A MINIMUM I'm = 1,800 PSI. GROUT SHALL HAVE A MINIMUM f'c = 2,000 PSI AND SHALL COMPLY WITH ASTM C476. VERTICAL REINFORCING:

REINFORCING SHALL CENTERED IN THE CELLS UNLESS NOTED OTHERWISE AND BE CONTINUOUS FULL HEIGHT OF GROUT POUR PLUS REQUIRED LAP LENGTH. PROVIDE 1 #5 CONTINUOUS FULL HEIGHT OF WALL AT ALL CORNERS, INTERSECTIONS, WALL ENDS, BEAM BEARINGS, JAMBS, EACH SIDE OF CONTROL JOINTS AND AT SPACING PER DETAIL 21 UNLESS NOTED OTHERWISE. REINFORCING SHALL BE SECURED AGAINST DISPLACEMENT PRIOR TO GROUTING BY WIRE POSITIONERS OR OTHER SUITABLE DEVICES AT INTERVALS NOT TO EXCEED 200 BAR DIAMETERS OR 10 FEET.

HORIZONTAL REINFORCING: DO NOT SPLICE REINFORCING WITHIN 8'-0" OF CONTROL JOINTS. PROVIDE 2 #5 IN MINIMUM 8" DEEP GROUTED CONTINUOUS BOND BEAM AT ELEVATED FRAMING ASSEMBLIES. PROVIDE 1 #5 IN MINIMUM 8" DEEP GROUTED CONTINUOUS BOND BEAM AT TOP OF PARAPETS. PLACE THESE BARS CONTINUOUS

JOINT REINFORCEMENT PER ASTM A951 AT 16" O.C. IN HORIZONTAL JOINTS (LAP 8" MINIMUM).

REINFORCING STEEL

LATEST ACI 318 CODE AND DETAILING MANUAL APPLY. ALL REINFORCING SHALL BE CHAIRED TO ENSURE PROPER CLEARANCES. SUPPORT OF FOUNDATION REINFORCING MUST PROVIDE ISOLATION FROM MOISTURE/CORROSION BY USE OF PLASTIC OR CONCRETE CHAIR. DUCT-TAPE COVERED REINFORCING IS NOT AN ACCEPTABLE CHAIR. ALL DIMENSIONS REFERENCED IN DRAWINGS AS "CLEAR" SHALL BE FROM FACE OF STRUCTURE TO EDGE OF REINFORCING, AND SHALL NOT BE LESS THAN STATED, NOR GREATER THAN "CLEAR" DIMENSION PLUS 3/8". ALL OTHERS SHALL BE PLUS OR MINUS 1/4" TYPICAL UNLESS NOTED OTHERWISE. ALL REINFORCING SHALL BE SECURELY TIED IN PLACE TO PREVENT MOVEMENT DURING CONCRETE PLACEMENT. DEFORMED REINFORCING SPECIFICATIONS AS FOLLOWS:

THRU CONTROL JOINTS PER TYPICAL DETAIL. PROVIDE STANDARD WEIGHT, 9 GAGE WIRE, LADDER TYPE

ASTM A615, GRADE 60 (Fy = 60 KSI) FOR #4 BARS AND LARGER ASTM A615, GRADE 40 (Fy = 40 KSI) FOR #3 BARS

CLEAR CONCRETE COVERAGE'S OF ALL STEEL SHALL BE:

CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ----- 3"

POST INSTALLED ANCHORS:

(SPECIAL INSPECTION REQUIRED)

THESE ANCHORS MAY ONLY BE USED WHERE SPECIFIC ANCHORS ARE NOT DENOTED ON PLANS,

SPECIAL STRUCTURAL INSPECTION IS REQUIRED DURING PLACEMENT OF ALL ANCHORS EXCEPT SCREW ANCHORS UNLESS SPECIFICALLY NOTED OTHERWISE.

USE OF OTHER ANCHOR PRODUCTS MUST BE APPROVED BY THE ENGINEER OF RECORD.

SYSTEM	MFR	CONCRETE	MASONRY
	DEWALT/POWERS	PURE 110 + (ESR 3298) AC 200 + (ESR 4027)	AC100+GOLD (ESR 3200)
ADHESINE.	HILTI	HY200 (ESR 3187) RE 100-V3 (ESR 3829)	HY70 (ESR 2682)
·	SIMPSON	SET-XP (ESR 2508)	SET-XP (IAPMO ER-265)
	DEWALT/POWERS	SCREW-BOLT + (ESR 3889)	WEDGE BOLTS + (ESR 1678)
205 N	HILTI	KWIK-HUS-EZ (ESR 3027)	KWIK-HUS-EZ (ESR 3056)
	SIMPSON	TITEN HD (ESR 2713)	TITEN HD (ESR 1056)
	DEWALT/POWERS	POWER-STUD + SD2 (ESR 2502)	N/A
W. S.	HILTI	KWIK BOLT TZ (ESR 1917)	N/A
	SIMPSON	STRONG BOLT 2 (ESR 3037)	N/A

STRUCTURAL WOOD:

SAWN LUMBER:

FRAMING LUMBER SHALL COMPLY WITH THE LATEST EDITION OF THE NDS ALONG WITH GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION (WWPA) OR THE WEST COAST LUMBER INSPECTION BUREAU (WCLIB). ALL SAWN LUMBER SHALL BE STANDARD DRESSED (S4S) AND KILN DRIED WITH MOISTURE CONTENT NOT TO EXCEED 19% AND SHALL BE STAMPED WITH THE GRADE MARK OF AN APPROVED LUMBER GRADING AGENCY AND SHALL MEET OR EXCEED THE FOLLOWING WOOD TYPES AND

	WOOD	TYP
2X AND 4X JOISTS/BEAMS 6X BEAMS LEDGERS AND TOP PLATES STUDS	D.F. D.F. D.F. D.F.	#2 #1 #2 #2
4X POSTS		"
6X POSTS		"
6X PUSIS	D.F.	#1

GENERAL:

WOOD FRAMING MEMBER SHALL NOT BE NOTCHED OR DRILLED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER THROUGH THE ARCHITECT. ALL NAILING NOT NOTED SHALL BE PER TYPICAL DETAIL. ALL BOLTING SHALL BE PER STEEL SECTION. WOOD CONNECTORS SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC. OR OTHER MANUFACTURER WITH CURRENT AND EQUIVALENT I.C.C. APPROVAL. WHERE "TYPE" OF CONNECTOR IS INDICATED ON THE DRAWINGS. THE CONNECTOR AND ATTACHMENT SHALL BE PER THE MAXIMUM MODEL NUMBER BASED ON THE SIZE OF THE MEMBERS CONNECTED.

IN STUD WALLS, UNLESS NOTED OTHERWISE, INSTALL DOUBLE STUDS AT ALL JAMBS, CORNERS, INTERSECTIONS AND AT ISOLATED BEARING POINTS OF FRAMING MEMBERS ABOVE. EVERY OTHER STUD OF WOOD FRAME BEARING WALL SHALL HAVE A SIMPSON H.3 ANCHOR TOP AND BOTTOM. EXCEPT A THOSE WALLS WHERE PLYWOOD SHEATHING IS NAILED DIRECTLY TO THE TOP AND BOTTOM PLATES. PROVIDE 2X SOLID BLOCKING AT MID-HEIGHT OF BEARING STUD WALLS. SILL PLATES AT ALL EXTERIOR WALLS SHALL BE EITHER PRESERVATIVELY TREATED WOOD OR FOUNDATION - GRADE

PROVIDE 2" SOLID BLOCKING AT SUPPORTS OF ALL JOISTS. DOUBLE UP FLOOR JOISTS AND BLOCKING UNDER PARTITIONS. DO NOT NOTCH, DRILL OR SPLICE JOISTS, BEAMS OR STUDS WITHOUT WRITTEN APPROVAL OF STRUCTURAL ENGINEER.

ALL WOOD CONNECTORS SHALL BE BY SIMPSON STRONG-TIE OR EQUAL BY OTHER MANUFACTURER WITH ICC OR IAPMO APPROVAL AND SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER

DO NOT NOTCH, DRILL OR SPLICE JOISTS, BEAMS OR STUDS WITHOUT WRITTEN APPROVAL OF STRUCTURAL ENGINEER.

GLUE-LAMINATED BEAMS(GLULAM):

ALL GLU-LAM BEAMS SHALL BE FABRICATED USING WATERPROOF-GLUE. FABRICATION AND HANDLING PER LATEST AITC AND WCLA STANDARDS. CAMBER BEAMS AS SHOWN ON DRAWINGS. BEAM WIDTHS INDICATED MAT BE ENLARGED AT HE CONTRACTORS DISCRETION (3 1/8" MAY BE 3 1/2", 5 1/8" MAY BE 5 1/2", 6 /4" MAY BE 7 1/4" AND 8 3/4" MAY BE 9 1/4" WIDTH). BEAMS TO BEAR BOTH GRADE STAMP AND AITC STAMP AND CERTIFICATE. STANDARD CAMBER R = 2500' U.N.O.

SIMPLE SPAN BEAMS ---- 24F-V4 CANTILEVERING BEAMS ---- 24F-V8

NAILING:

ALL NAILING INDICATED THROUGHOUT THE DRAWINGS SHALL HAVE THE FOLLOWING MINIMUM DIAMETERS/LENGTHS ALONG WITH TYPICAL USE:

STRAPS AND PLATES TO LUMBER	8d (2 1/2"x0.131" DIA U.N.O.)
PLYWOOD TO LUMBER AND STRAPS TO LEDGER	10d (2 1/4"x0.131" DIA U.N.O.)
LUMBER TO LUMBER	-16d (3 1/4"x0.148" DIA U.N.O.)

ENGINEERED LUMBER:

ENGINEERED LUMBER SHALL COMPLY WITH ICC REPORT NO. ESR-1387 WITH THE FOLLOWING WOOD TYPES AND PROPERTIES:

2X STUDS1.3E	TIMBERSTRAND LSL
2X RIM JOISTS1.5E	TIMBERSTRAND LSL OR 1.55E TIMBERSTRAND LSL
3 1/2", 5 1/4", 7" BEAMS 2.0E	PARALLAM PSL
3 1/2", 5 1/4", 7" COLUMNS 1.8E	PARALLAM PSL

PLYWOOD:

ALL PLYWOOD SHALL BE AMERICAN PLYWOOD ASSOCIATION "CDX" RATED SHEATHING OR BETTER AND SHALL BEAR THE STAMP OF AN APPROVED TESTING AGENCY. LAY PLYWOOD WITH FACE GRAIN PERPENDICULAR TO SUPPORTS. WHERE PLYWOOD IS LAID UP WITH FACE GRAIN PARALLEL TO SUPPORTS, USE A MINIMUM OF 5-PLY PLYWOOD. ALL PLYWOOD SHALL BE LAID WITH STAGGERED JOINTS AND BE OF THE FOLLOWING NOMINAL THICKNESS, SPAN/INDEX RATIO AND SHALL BE ATTACHED WITH NAILS PER NAILING SECTION AS FOLLOWS UNLESS NOTED OTHERWISE:

	THICKNESS	SPAN/INDEX RATIO	EDGE ATTACHMENT	INTERMEDIATE ATTACHMENT
ROOF	1/2"	32/16	10d AT 6" O.C.	10d AT 12" O.C.

AMERICAN PLYWOOD ASSOCIATION PERFORMANCE RATED SHEATHING MAY BE USED AS AN ALTERNATE TO PLYWOOD WITH PRIOR APPROVAL OF OWNER, ARCHITECT AND ROOFING CONTRACTOR, WHERE ROOF IS TO BE GUARANTEED. IT MAY NOT BE USED WITHOUT PRIOR APPROVAL FROM ROOF SYSTEM MANUFACTURER, RATED SHEATHING SHALL COMPLY WITH I.C.C. REPORT NO. ESR-2586, EXPOSURE 1, AND SHALL HAVE A SPAN RATING AND SHEAR VALUES EQUIVALENT TO OR BETTER THAN THE PLYWOOD IT REPLACES. ATTACHMENT AND THICKNESS (WITHIN 1/32") SHALL BE THE SAME AS THE PLYWOOD IT REPLACES. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

PREFABRICATED WOOD TRUSSES: (DEFERRED SUBMITTAL)

- PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE REFERENCED BUILDING CODE, AND ALL OTHER APPLICABLE REPORTS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH DESIGN CALCULATIONS SEALED BY A LICENSED ENGINEER IN THE STATE OF CONSTRUCTION FOR REVIEW AND APPROVAL BY SIMPLY STRUCTURAL INC. PRIOR TO FABRICATION. IN ADDITION TO LOADS SPECIFIED IN THE G.S.N., PLANS AND DETAILS, DESIGN SHALL INCLUDE, BUT NOT LIMITED TO, THE FOLLOWING:
- 1. DEFLECTION/CAMBER: ROOFS LIVE LOAD MAXIMUM = L/360. FOR ROOF SLOPES LESS THAN 1/4" PER FOOT, MEMBERS MUST BE DESIGNED FOR PONDING.
- TOP CHORD MEMBER WOOD SPECIES SHALL BE DOUGLAS FIR-LARCH, OR SOUTHERN PINE. ALL OTHER SPECIES MUST BE SUBMITTED TO SIMPLY STRUCTURAL INC. FOR REVIEW AND APPROVAL PRIOR TO BIDDING. THE ABSOLUTE MINIMUM SPECIFIC GRAVITY THAT WILL BE CONSIDERED IS 0.42.
- 3. CONNECTIONS AND BEARING MATERIAL TO BE SHOP CONNECTED, DESIGNED AND FURNISHED BY
- 4. ADDITIONAL FRAMING MEMBERS SHALL BE SUPPLIED AS REQUIRED TO SUPPORT MECHANICAL EQUIPMENT.

PREFABRICATED WOOD TRUSSES SHALL BE CAMBERED FOR 1.5 TIMES THE DEAD LOAD DEFLECTION. MULTIPLE FRAMING MULTIPLE FRAMING MEMBERS SHALL BE FASTENED TOGETHER TO ALLOW TRANSFER OF SHEAR AND TENSION FORCES (MINIMUM 200 PLF) AT PLYWOOD SHEATHING JOINTS AND TO PREVENT CROSS GRAIN BENDING OF TOP CHORDS. ATTACHMENT SHALL BE A CONTINUOUS 20 GAGE METAL PLATE OR OTHER APPROVED MEANS. METHOD OF ATTACHMENT SHALL BE INDICATED ON SHOP DRAWINGS FOR REVIEW.

PREFABRICATED WOOD TRUSSES SHALL BE MANUFACTURED BY SHOPS WHICH HAVE CURRENT I.C.C. CERTIFICATION AS AN APPROVED FABRICATOR PER THE REFERENCED BUILDING CODE. TRUSS CONSTRUCTION DOCUMENTS SHALL BE PREPARED IN ACCORDANCE WITH 2303.4.1.

STRUCTURAL STEEL:

(SPECIAL INSPECTION REQUIRED)

THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND STRUCTURES SHALL BE IN ACCORDANCE WITH AISC 360. FOR ALL STEEL WHERE Fy > 36 KSI, THE ASTM OR OTHER SPECIFICATION DESIGNATION SHALL BE INCLUDED NEAR THE ERECTION MARK ON EACH SHIPPING ASSEMBLY OR IMPORTANT CONSTRUCTION COMPONENT OVER ANY SHOP COAT OF PAINT PRIOR TO SHIPMENT FROM THE FABRICATOR'S PLANT. USE THE FOLLOWING MINIMUM PROPERTIES UNLESS NOTED

- * ROUND HSS OR PIPE SHALL BE ASTM A500 GRADE C (Fy = 42 KSI).
- * RECTANGULAR AND SQUARE HSS SHALL BE ASTM A500 GRADE C (Fy = 46 KSI).
- * WIDE FLANGE STEEL SHALL BE ASTM A992 (Fy = 50 KSI). * STRUCTURAL TUBE SHALL BE ASTM A500, GRADE C (Fy = 50 KSI).
- * MISCELLANEOUS STEEL SHALL BE ASTM A36 (Fy = 36 KSI).

* BOLTS SHALL BE F1554 GRADE 36 (ASTM A307).

ALL REFERENCE TO HEADED STUDS SHALL BE "TRW/NELSON" HIGH STRENGTH HEADED STUDS OR APPROVED EQUAL. AT CONTRACTOR'S OPTION HEADED STUDS PER ABOVE MAY BE SUBSTITUTED FOR CONVENTIONAL ANCHORS AND MACHINE BOLTS (REVERSE SUBSTITUTION NOT ALLOWABLE). ALL BOLTS, ANCHOR BOLTS, EXPANSION BOLTS, ETC. SHALL BE INSTALLED WITH STEEL WASHERS. AT SHORT SLOTTED HOLES USE SNUG TIGHT INSTALLATION UNLESS NOTED OTHERWISE.

STEEL ROOF DECK:

DECK SHALL BE 1 1/2" DEEP, 36" WIDE, 22 GAGE PAINTED STEEL (GALVANIZED WHERE INDICATED), WITH MINIMUM YIELD STRESS OF 50 KSI, WITH MINIMUM S = 0.188 IN 3 AND I = 0.176 IN 4 PER FOOT OF WIDTH, DECK SHALL BE FRECTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AS 3 SPAN MINIMUM AND SHALL BE ATTACHED FOR A MINIMUM DIAPHRAGM SHEAR CAPACITY OF 500 PLF USING THE FOLLOWING MINIMUM ATTACHMENTS:

CONNECT DECK TO SUPPORTING FRAMING WITH 7-HILTI X-HSN24 FASTENERS PER SHEET AT ALL SUPPORT MEMBERS AND AT 6" O.C. AT ALL PARALLEL MEMBERS PER IAPMO ER-2017 SIDE SEAM ATTACHMENT SHALL BE VSC2 CONNECTIONS AT 18" O.C.

WELDING:

ALL WELDING SHALL BE PERFORMED BY WELDERS HOLDING VALID CERTIFICATES ISSUED BY AN ACCEPTED TESTING AGENCY AND HAVING CURRENT EXPERIENCE IN THE TYPE OF WELD SHOWN. THESE DRAWINGS DO NOT DISTINGUISH BETWEEN SHOP AND FIELD WELDS: THE CONTRACTOR MAY SHOP WELD OR FIELD WELD AT THEIR DISCRETION. SHOP WELDS AND FIELD WELDS SHALL BE SHOWN ON THE SHOP DRAWINGS SUBMITTED FOR REVIEW. UNLESS NOTED OTHERWISE.

ALL WELDS PER THE REFERENCED OR LATEST EDITION OF THE AMERICAN WELDING SOCIETY (AWS) STANDARDS:

STRUCTURAL WELDING CODE - STEEL STRUCTURAL WELDING CODE - SHEET STEEL STRUCTURAL WELDING CODE - REINFORCING STEEL RECOMMENDED PRACTICES FOR STUD WELDING

ALL WELDING DONE BY E70 SERIES LOW HYDROGEN RODS UNLESS NOTED OTHERWISE. FOR GRADE 60 REINFORCING BARS, USE E90 SERIES.

FABRICATORS:

ALL STRUCTURAL STEEL FABRICATION SHALL BE PERFORMED BY SHOPS WITH A CITY OF PHOENIX APPROVED STRUCTURAL STEEL FABRICATOR LISTING.

SHOP DRAWINGS:

USE OF DRAWINGS CREATED BY SIMPLY STRUCTURAL INC. ARE NOT ACCEPTABLE FOR USE AS SHOP

1. SIMPLY STRUCTURAL INC. ASSUMES NO RESPONSIBILITY FOR THE FAILURE OF THE CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW. SIMPLY STRUCTURAL INC. WILL REVIEW COMPLETED CONTRACTORS SHOP DRAWINGS AND OTHER APPROPRIATE SUBMITTALS THAT ARE A PROPERLY FUNCTIONING AND INTEGRAL ELEMENT OF THE OVERALL STRUCTURAL SYSTEM DESIGNED BY SIMPLY STRUCTURAL INC. REVIEWING IS INTENDED ONLY AS AN AID TO THE CONTRACTOR IN OBTAINING

CORRECT SHOP DRAWINGS. 2. SHOP DRAWINGS SUBMITTALS SHALL INCLUDE AT A MINIMUM:

DRAWINGS. ANY SUBMITTALS CONTAINING SUCH WILL BE REJECTED WITHOUT REVIEW.

- A LAYOUT PLAN KEYED TO TRUSS/JOIST/BEAMS ETC.
- B CLEARLY DEFINED DESIGN LOADS. C SEAL AND SIGNATURE OF A LICENSED ENGINEER IN THE STATE OF CONSTRUCTION AFFIXED DIRECTLY TO BOUND DOCUMENTS.
- 3. BEFORE SUBMITTING SHOP DRAWINGS OR ANY RELATED MATERIAL, THE CONTRACTOR SHALL:
- A REVIEW EACH SUBMISSION FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES, OPERATIONS OF CONSTRUCTION, AND SAFETY PRECAUTIONS AND PROGRAMS ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- B APPROVE AND STAMP AND SIGN EACH SUBMISSION BEFORE SUBMITTING IT C ITEMS NOT IN ACCORDANCE WITH CONTRACT DOCUMENTS SHALL BE FLAGGED UPON CONTRACTOR'S REVIEW. SIMPLY STRUCTURAL INC. SHALL ASSUME THAT NO SHOP DRAWING OR RELATED SUBMITTAL COMPRISES A VARIATION UNLESS THE CONTRACTOR ADVISES SIMPLY STRUCTURAL INC. IN WRITING.
- 4. THE ENGINEER HAS THE RIGHT TO APPROVE OR DISAPPROVE ANY CHANGES TO CONTRACT
- DOCUMENTS AT ANYTIME BEFORE OR AFTER SHOP DRAWING REVIEW. 5. THE SHOP DRAWINGS DO NOT REPLACE THE CONTRACT DOCUMENTS. ITEMS OMITTED OR SHOWN INCORRECTLY AND ARE NOT FLAGGED BY THE STRUCTURAL ENGINEER OR ARCHITECT SHALL NOT BE CONSIDERED CHANGES TO CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY

TO ENSURE ALL ITEMS ARE CONSTRUCTED ACCORDING TO THE CONTRACT DOCUMENTS.

DEFERRED SUBMITTALS:

D VERIFY ALL DIMENSIONS WITH ARCHITECT.

DEFERRED SUBMITTALS ARE DEFINED AS THOSE PORTIONS OF THE DESIGN THAT ARE NOT SUBMITTED AT THE TIME OF APPLICATION. DEFERRAL OF ANY SUBMITTAL SHALL HAVE PRIOR APPROVAL OF THE BUILDING OFFICIAL. SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO SIMPLY STRUCTURAL INC. WHO SHALL REVIEW AND NOTE THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL. ALL

DEFERRED SUBMITTALS SHALL BE SEALED BY A LICENSED ENGINEER IN THE STATE OF CONSTRUCTION. THE FOLLOWING ITEMS SHALL BE SUBMITTED PER THIS SECTION PER IBC SECTION 107.3.4.1:

* PREFABRICATED WOOD TRUSSES AND TRUSS GIRDERS

STATEMENT OF SPECIAL STRUCTURAL INSPECTIONS:

IN ADDITION TO THE INSPECTIONS REQUIRED BY SECTION 110 OF THE INTERNATIONAL BUILDING CODE, SPECIAL STRUCTURAL INSPECTION IS REQUIRED FOR THE WORK LISTED BELOW AS STATED IN SECTION 1704 AND 1705 OF THE INTERNATIONAL BUILDING CODE. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK/TESTING ASSIGNED FOR CONFORMANCE WITH THE APPROVED DRAWINGS AND SPECIFICATIONS.

- 1. CONCRETE CONSTRUCTION INCLUDING ICF WALLS: (REFERENCE IBC TABLE 1705.3) CONTINUOUSLY DURING THE TAKING OF TEST SPECIMENS AND PLACING OF ÁLL CONCRETE. VERIFY USE OF REQUIRED DESIGN STRENGTH.
- 2. BOLTS IN CONCRETE: PRIOR TO AND CONTINUOUSLY DURING THE PLACEMENT OF CONCRETE AROUND BOLTS.
- 3. REINFORCING STEEL: (REFERENCE IBC SECTION 1705.3 AND TABLE 1705.3) INSPECTION OF IN PLACE REINFORCING. THE SPECIAL INSPECTOR NEED NOT BE PRESENT CONTINUOUSLY DURING PLACEMENT OF REINFORCING STEEL PROVIDED THE SPECIAL INSPECTOR HAS INSPECTED FOR CONFORMANCE. PRIOR TO CLOSING FORMS OR THE DELIVERY OF CONCRETE TO THE JOBSITE. FOR ALL CONCRETE HAVING SPECIAL STRUCTURAL INSPECTION PER ITEM 1
- FOR SLABS ON GRADE. FOR CONCRETE FOOTINGS.
- 4. WELDING: (REFERENCE AISC 360 SECTION N; IBC TABLE 1705.2.2)
- INSPECT WELDS ACCORDING TO AWS D1.1/D1.1M. INSPECT FLOOR AND ROOF DECK WELDS ACCORDING TO AWS D1.3 • INSPECT WELDING OF REINFORCING STEEL ACCORDING TO AWS D1.4 AND ACI 318: 3.5.2.
- SPECIAL INSPECTION IS REQUIRED FOR ALL WELDS NOT PERFORMED IN AN APPROVED FABRICATOR'S SHOP IN ACCORDANCE WITH SECTION 1704.3.1 OF THE INTERNATIONAL BUILDING CODE.
- VERIFICATION OF THE QUALIFICATIONS OF WELDING PROCEDURES AND WELDERS. AN AWS CERTIFIED WELDING INSPECTOR FROM AN INDEPENDENT TESTING LABORATORY SHALL VISUALLY INSPECT ALL FIELD WELDS.
- 5. STRUCTURAL MASONRY: (REFERENCE ACI 530)
- CONTINUOUSLY DURING PREPARATION AND TAKING OF ANY REQUIRED PRISMS OR TEST SPECIMENS. PERIODIC INSPECTION OF ALL IN-PLACE REINFORCING AND GROUT SPACE PRIOR TO THE DELIVERY OF
- GROUT TO THE JOBSITE. CONTINUOUS INSPECTION DURING ALL GROUTING OPERATIONS.
- PRIOR TO CLOSING ALL CLEANOUTS. VERIFY TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF
- MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION. NO MORTAR TESTING REQUIRED PROVIDED THE MORTAR USED COMPLIES WITH ATSM 270 FOR STRENGTH INDICATED.
- 6. EXPANSION AND EPOXY (ADHESIVE) ANCHORS: CONTINUOUS DURING THE PLACEMENT OF ALL ANCHORS. ALL HOLES MUST BE DRILLED PRIOR TO SPECIAL INSPECTORS ARRIVAL ON SITE.
- INSPECTOR TO VERIFY CORRECT DIAMETER AND DEPTH OF ALL HOLES AS WELL AS CORRECT ANCHOR TYPE, NUMBER, AND SPACING OF ALL ANCHORS AND THE FPOXY (ADHESIVE) TYPE. INSPÉCTOR TO OBSERVE BRUSHING AND CLEANING OF ALL HOLES WITH COMPRESSED AIR PER
- 7. WOOD: (REFERENCE IBC TABLE 1705.5) INSPECT ALL PLYWOOD NAILING, STRAPS AND HOLDOWN INSTALLATIONS.
- 8. EXCAVATION, GRADING AND FILL BY SOILS ENGINEER (REFERENCE TABLE 1705.6). SOILS ENGINEER SHALL PROVIDE OBSERVATION AND TESTING SERVICES DURING THE GRADING AND FOUNDATION PHASE OF CONSTRUCTION. INSPECTION AND TESTING REPORTS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND SIMPLY STRUCTURAL INC.

GENERAL NOTES:

MANUFACTURERS REQUIREMENTS.

- 1. THE STRUCTURAL CONSTRUCTION DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE BUILDING AND THE CONSTRUCTION SITE. THE CONTRACTOR SHALL USE ADEQUATE SHORING, BRACING, AND GUYS IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL SAFETY ORDINANCES. THE STRUCTURAL ENGINEER OF RECORD SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES FOR PROCEDURE OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENT THERETO (NOR SHALL OBSERVATION VISITS TO THE SITE INCLUDE OR IMPLY INSPECTION OF THESE ITEMS).
- 2. WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENA. ANY ENGINEERING DESIGN, PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW. SHALL BEAR THE SEAL OF A REGISTERED ENGINEER RECOGNIZED BY THE BUILDING CODE JURISDICTION OF THIS PROJECT
- 3. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM O SIMILAR WORK ON THE PROJECT, AND/OR PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE MOST STRINGENT REQUIREMENT SHALL GOVERN.
- 4. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION, RESOLVE ANY DISCREPANCY WITH THE ARCHITECT. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL CIVIL MECHANICAL. PLUMBING AND ELECTRICAL ITEMS WITH APPROPRIATE TRADE DRAWINGS AND SUBCONTRACTORS
- PRIOR TO CONSTRUCTION. 5. TYPICAL DETAILS MAY NOT NECESSARILY BE CUT ON PLANS, BUT APPLY UNLESS NOTED OTHERWISE.
- 6. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED CONSTRUCTION. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.
- 7. OPTIONS ARE FOR CONTRACTOR'S CONVENIENCE. IF AN OPTION IS CHOSEN, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES, APPROVALS AND THE COORDINATION OF THE

SPECIAL STRUCTURAL INSPECTION NOTES:

WORK WITH ALL RELATED TRADES AND SUPPLIERS.

WORKMANSHIP PROVISIONS OF THE BUILDING CODE.

1. CONTACT SIMPLY STRUCTURAL INC. PRIOR TO THE START OF CONSTRUCTION FOR ADDITIONAL

2. SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL. THE

- ENGINEER OR ARCHITECT OF RECORD, AND OTHER DESIGNATED PERSONS AT A MINIMUM OF 3. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE
- 4. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR, THEN, IF UNCORRECTED, THE PROPER DESIGN AUTHORITY AND THE BUILDING OFFICIAL. THE SPECIAL INSPECTOR IS NOT AUTHORIZED TO APPROVE DEVIATIONS FROM THE DESIGN DRAWINGS OR SPECIFICATIONS.
- 5. CONTRACTOR SHALL PROVIDE THE SPECIAL INSPECTOR SAFE ACCESS TO ALL ITEMS REQUIRING SPECIAL INSPECTION. ACCESS SHALL BE PROVIDED VIA IN-PLACE LADDERS, SCAFFOLDING, AND/OR CONTRACTOR OPERATED LIFTS AS REQUIRED FOR SAFE OBSERVATION.
- 6. SPECIAL INSPECTIONS SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF A STATE LICENSED STRUCTURAL ENGINEER. WHO IS FAMILIAR WITH THE STRUCTURAL DESIGN OF THIS PROJECT. THE UPERVISING <u>STRUCTURAL ENGINEER</u> SHALL SEAL THE SPECIAL INSPECTION CERTIFICATE. 7. CONTACT SIMPLY STRUCTURAL INC. FOR SPECIAL STRUCTURAL INSPECTIONS IN THE PHOENIX AREA AT (602) 443-0303 PRIOR TO STARTING CONSTRUCTION.

SPECIAL GEOTECHNICAL INSPECTION:

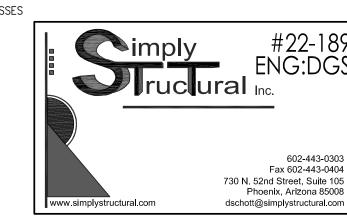
1. EXCAVATION, GRADING AND FILL BY SOILS ENGINEER (REFERENCE TABLE 1705.6). SOILS ENGINEER SHALL PROVIDE OBSERVATION AND TESTING SERVICES DURING THE GRADING AND FOUNDATION PHASE OF CONSTRUCTION. INSPECTION AND TESTING REPORTS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND SIMPLY STRUCTURAL INC

DEFERRED SUBMITTALS:

DEFERRED SUBMITTALS ARE DEFINED AS THOSE PORTIONS OF THE DESIGN THAT ARE NOT SUBMITTED AT THE TIME OF APPLICATION. DEFERRAL OF ANY SUBMITTAL SHALL HAVE PRIOR APPROVAL OF THE BUILDING OFFICIAL. SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO SIMPLY STRUCTURAL INC. WHO SHALL REVIEW AND NOTE THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL. ALL DEFERRED SUBMITTALS SHALL BE SEALED BY A LICENSED ENGINEER IN THE STATE OF CONSTRUCTION.

THE FOLLOWING ITEMS SHALL BE SUBMITTED PER THIS SECTION:

PREFAB WOOD TRUSSES



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CONSTRUCTION **DOCUMENTS**

Revision Schedule

Date Description

08.02.2023 CITY COMMENTS

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ART PROJECT NO.

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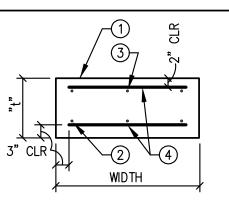


G.S.N

FOUNDATION SCHEDULES

CONCRETE PAD FOOTING SCHEDULE (F_) 1. CONCRETE FOOTING. 2. FOOTING REINFORCING. 3. TOP REINFORCING IF SPECIFIED. 4. CENTER FOOTING UNDER COLUMN/WALL, ETC. U.N.O. 5. SEE DETAIL/FOR BOTTOM 3" CLR OF FOOTING REQUIREMENT. WIDTH/LENGTH THICKNESS "t" MARK WIDTH LENGTH NOTES REINFORCING

CONCRETE WALL FOOTING SCHEDULE (WF_)



2'-6"

2'-6"

F1

1. CONCRETE FOOTING. 2. REINFORCING. 3. TOP REINFORCING IF SPECIFIED.

3 #5 EACH WAY

4. TRANSVERSE REINFORCING IF SPECIFIED. 5. CENTER FOOTING UNDER WALL U.N.O. 6. SEE DETAIL 01 FOR BOTTOM

OF FOOTING REQUIREMENT.

REINFORCING THICKNESS WIDTH MARK CONTINUOUS | TRANSVERSE 1'-4"

COLUMN SCHEDULE (C_)						
MARK	SIZE	BASE CONNECTION	NOTES			
C1	6x6	SEE DETAIL 26				
C2	2-2x6	SEE DETAIL 26				

STEEL COLUMN SCHEDULE (SC_)

1. AESS FIN	NISH.		
MARK	SIZE	BASE CONNECTION	NOTES
SC1	HSS 2x2x3/16	3/8x10x0'-10" STEEL BASE PLATE WITH (4) 5/8" DIA ANCHOR BOLTS	(1)
SC2	HSS 4x2x3/16	3/8x10x0'-10" STEEL BASE PLATE WITH (4) 5/8" DIA ANCHOR BOLTS	(1)

WOOD STUD SHEAR WALL SCHEDULE (SW_)

MARK	MATERIAL AND ATTACHMENT	SILL PLATE ATTACHMENT AT FOUNDATIONS (1)	NOTES
SW6	3/8" BLOCKED APA "CDX" SHEATHING WITH 8d NAILS AT 6" O.C. AT EDGES & 12" O.C. FIELD	5/8" A.B. AT 32" O.C.	
SW4	3/8" BLOCKED APA "CDX" SHEATHING WITH 8d NAILS AT 4" O.C. AT EDGES & 12" O.C. FIELD	5/8" A.B. AT 24" O.C.	
SW3	3/8" BLOCKED APA "CDX" SHEATHING WITH 8d NAILS AT 3" O.C. AT EDGES & 12" O.C. FIELD(4)	5/8" A.B. AT 16" O.C. (2)	(3)

FOOTNOTES:

SW6 (9'-6")

- CAST-IN-PLACE ANCHOR BOLTS MAY BE REPLACED WITH SCREW ANCHORS OR EPOXY BOLTS AT SAME DIAMETER SPACING AND EMBEDMENT.
- PROVIDE 1/4"x2 1/2" SQUARE PLATE WASHERS AT EACH ANCHOR BOLT ON BOTTOM PLATE.. FRAMING AT ADJOINING PANEL EDGES SHALL BE 3" NOMINAL OR WIDER OR 2-2x WITH 16d STUD TO STUD AT SPACING TO MATCH EDGE NAILING. PLYWOOD NAILING SHALL BE STAGGERED FROM ONE TO
- STAGGER NAILS IN SILL PLATE.
 SEE DETAIL 27 FOR ADDITIONAL INFORMATION.
- SEE PLAN FOR MINIMUM SHEAR WALL LENGTH TYP.

HOLDOWN SCHEDULE

MARK	HOLDOWN	POST ATTACHMENT	POST	DESIGN UPLIFT	ANCHOR
HD1	DTT2Z	8 - SDS 1/4" x 2 1/2" SCREWS	2-2x POST MINIMUM	2,145 #	1/2" DIA ANCHOR BOLT WITH 8" MIN EMBED INTO STEM

TYPICAL HOLDOWN NOTES:

- ALL HOLDOWNS TO BE SIMPSON HOLDOWNS UNLESS APPROVED OTHERWISE IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD.
- INSTALL HOLDOWNS PER MANUFACTURER'S RECOMMENDATIONS.
- SEE DETAIL 11 FOR ADDITIONAL INFORMATION.

FOUNDATION PLAN NOTES

1. SEE DETAIL 01, GENERAL STRUCTURAL NOTES AND SOILS REPORT FOR EARTHWORK REQUIREMENTS AND TOP/BOTTOM OF FOOTING ELEVATIONS

2. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR SITE WORK, SIDEWALKS, CURBS, SITE WALLS, ETC.

SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF EXTERIOR SLAB JOINTS - TYPICAL. PROVIDE JOINTS AT 12'-0" O.C. MAXIMUM EACH WAY IN UNREINFORCED SLABS PER DETAIL 101 U.N.O.

4. 4" CONCRETE SLAB (F'C = 3,500 PSI) OVER VAPOR BARRIER OVER 4"
A.B.C. - TYPICAL U.N.O. REINFORCE SLAB WITH 4 LBS/SF MACROFIBERS PER

5. 2 #4 X 4'-0" CENTERED IN SLAB AT 6" O.C. - TYPICAL AT RE-ENTRANT CORNERS AND DISCONTINUOUS SLAB JOINTS AS OCCURS.

6. PROVIDE 1/2" PREFORMED JOINT FILLER AT ALL LOCATIONS WHERE EXTERIOR SLABS ABUT THE BUILDING U.N.O. ON ARCHITECTURAL DRAWINGS.

ALL HORIZONTAL REINFORCING IN FOOTINGS, STEMWALLS AND WALLS SHALL

BE CONTINUOUS AROUND ALL CORNERS AND INTERSECTIONS PER DETAIL 11. SAWCUT JOINT - TYPICAL U.N.O. CJ INDICATES SLAB CONSTRUCTION JOINT. SEE DETAIL 10.

9. 2-2x WOOD STUDS - TYP AT EACH CANOPY BEAM LOCATION.

Charities Head olic Sid

RCHITECTURAL ESOURCE TEAM

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CONSTRUCTION DOCUMENTS

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04.21.2023

SEE DETAIL 26 FOR

REQUIREMENTS BOTTOM OF FOOTING ELEVATION SHALL BE 1'-6" MINIMUM BELOW LOWEST ADJACENT FINISHED GRADE OR FINISHED FLOOR ELEVATION, WHICHEVER IS LOWER - TYPICAL U.N.O. TOP OF FOOTING ELEVATION AT WALLS AND COLUMNS SHALL BE

WOOD STUD WALL



FOUNDATION PLAN

1/8" = 1'-0"

(102)

<u> HD1</u>

ROOF FRAMING PLAN NOTES — TYPICAL U.N.O.:

1. 1/2" PLYWOOD SHEATHING - TYPICAL AT ROOFS U.N.O. SEE GSN FOR

9. ROOF HATCH OPENING. FOR LOCATION AND SIZE OF OPENING, SEE ARCH'L

10. 1 1/2"x22 GAGE STEEL DECK - TYPICAL AT SOUTH ENTRY CANOPIES U.N.O.

FOR ATTACHMENT, SEE GENERAL STRUCTURAL NOTES AND DETAIL 29.

11. CEILING JOISTS BELOW PER DETAIL 31 - TYP AT SOUTH ENTRY CANOPIES.

13. PROVIDE CS14 STRAP WITH 10d NAILS AT 2" O.C. TO FLAT 3x BLOCKING -

14. PROVIDE 2xBLOCKING AT ALL PLYWOOD PANEL EDGES WITH 8d AT 6" O.C. AT LEDGERS AND 6" O.C. AT OTHER PANEL EDGES IN AREA INDICATED.

DRAWINGS. FOR FRAMING AT OPENINGS, SEE DETAIL 24 AND 25.

12. MITRE CUT AND BUTT WELD BEAMS ALL AROUND - TYP AT CANOPY

LAYUP AND ATTACHMENT.

4. SLOPE PER ARCH'L DRAWINGS.

ARCH'L AND PLUMBING DRAWINGS.

INCREASE AS REQUIRED BY IBC.

OPENINGS, SEE DETAILS 24 AND 25.

LOCATIONS - TYP U.N.O.

EXTEND AS SHOWN ON ROOF.

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602-443-0303 Fax 602-443-0404 730 N. 52nd Street, Suite 105 Phoenix, Arizona 85008

dschott@simplystructural.com

imply # EN ruclural Inc.

22025

ROOF FRAMING PLAN

FRAMING SCHEDULES

HEADER SCHEDULE (H_) 1. SEE DETAIL 26 FOR END BEARING CONNECTIONS — TYP. MARK NOTES SIZE JACK STUDS KING STUDS 6x6 1 - 2x62 - 2x6 U.N.O. 2 - 2x6 U.N.O.

PREFABRICATED WOOD TRUSS SCHEDULE (T_)

- 1. TYPICAL DESIGN LOAD: DEAD LOAD = 25 PSF (15 PSF TOP CHORD, 10 PSF BOTTOM CHORD), LIVE
- LOAD = 20 PSF (REDUCIBLE) TYP U.N.O.2. SEE ARCH'L DRAWINGS FOR ADDITIONAL TRUSS DEPTHS AND INFORMATION - TYP U.N.O.
- 3. DESIGN TRUSSES FOR 7 PSF (ASD) NET WIND UPLIFT LOAD TYP U.N.O. 4. DESIGN ALL ROOF TRUSSES FOR 150 LB DEAD LOAD, ADD LOAD AT ANY TOP CHORD. PANEL POINT CONCURRENT WITH OTHER LOADS - TYP U.N.O.
- 5. PROVIDE WIDER TRUSS BAYS AS REQUIRED FOR MECHANICAL UNIT PLACEMENT IN ROOF FRAMING SYSTEM. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 6. TRUSS SPACING = 24" O.C. MAX. FINAL SPACING BY TRUSS MANUFACTURER. 7. PROVIDE 2X4 BOTTOM CHORD BEARING AT 12'-0" O.C. MAX. PROVIDE 2X4 WEB MEMBER BRACING AT MIDSPAN OF ALL WEB MEMBERS GREATER THAN 8'-0" LONG. ALL FINAL BRIDGING AND BRACING
- SHALL BE BY TRUSS MANUFACTURER TYPICAL.

 8. SEE FRAMING PLANS FOR ADD LOADS INCLUDING, BUT NOT LIMITED TO MECHANICAL UNITS.

U.	SEE TRAMING LEADS FOR ADD LOADS INCLUDING, BUT NOT LIMITED TO MILCHANICAL UNITS.
9.	ALL PARAPETS SHALL BE DESIGNED FOR A 45 PSF (ASD) HORIZONTAL COMPONENT AND CLADDING
	WIND LOAD. TRUSS DESIGNER TO USE SPECIAL LOAD CASE INDICATING THIS DESIGN.
10.	SLOPE.
11	SEE APCH'I DRAWINGS

11.	SEE	ARCH'L	DRAWINGS.	

MARK	PROFILE	NOTES
RT1	24" (i) (6)	
RT2	VARIES	
RT3		
RT4	(±) (±) (±) (±) (±) (±) (±) (±) (±) (±)	

STEEL BEAM SCHEDULE (SB_)

NOTE: 1. AESS FINISH

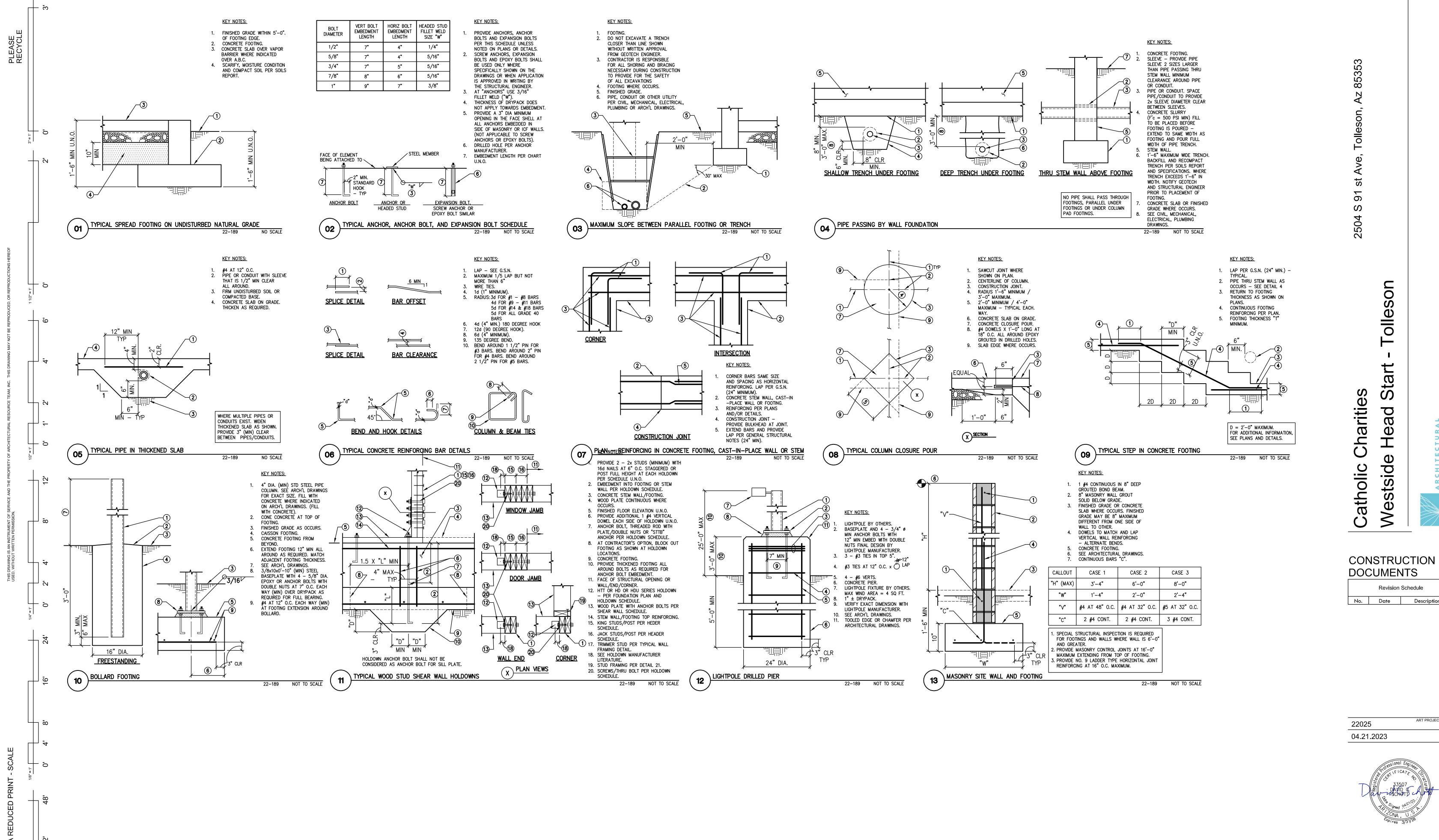
I. ALSS FINISH					
MARK	SIZE	END CONNECTION	NOTES		
SB1	HSS 5x2x3/16	SEE DETAILS	(1)		
SB2	HSS 5x2x3/16	SEE DETAILS	(1)		
SB3	HSS 8x3x3/16	SEE DETAILS			
SB4	HSS 8x3x1/4	SEE DETAILS			

LEDGER SCHEDULE (L_)

NOTES: 1. AESS FINISH.

MARK	SIZE	CONNECTION	NOTES
L1	HSS 5x2x3/16	SEE DETAIL 204	(1)
L2	L 3x3x3/16	SEE DETAIL 213	

1/8" = 1'-0"



DOCUMENTS Revision Schedule No. Date Description

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ART PROJECT NO. 04.21.2023





602-443-0303 Fax 602-443-0404 730 N. 52nd Street, Suite 105 Phoenix, Arizona 85008 dschott@simplystructural.com TYPICAL DETAILS 01-20

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imply # EN ructural Inc. 602-443-0303 Fax 602-443-0404 730 N. 52nd Street, Suite 105 Phoenix, Arizona 85008

dschott@simplystructural.com

ROOF FRAMING PLAN

ROOF FRAMING PLAN NOTES — TYPICAL U.N.O.:

LAYUP AND ATTACHMENT.

INCREASE AS REQUIRED BY IBC.

LOCATIONS - TYP U.N.O.

EXTEND AS SHOWN ON ROOF.

OPENINGS, SEE DETAILS 24 AND 25.

1. 1/2" PLYWOOD SHEATHING - TYPICAL AT ROOFS U.N.O. SEE GSN FOR

. SIMPSON DSC2 STRAP WHERE INDICATED. DESIGN TRUSS GIRDERS WITH

EXACT LOCATION, NUMBER AND SIZE OF OPENINGS. FOR FRAMING AT

8. 2-2X WOOD POST AND LGT TIEDOWN AT ALL GIRDER/TRUSS BEARING

DRAWINGS. FOR FRAMING AT OPENINGS, SEE DETAIL 24 AND 25.

12. MITRE CUT AND BUTT WELD BEAMS ALL AROUND - TYP AT CANOPY

9. ROOF HATCH OPENING. FOR LOCATION AND SIZE OF OPENING, SEE ARCH'L

10. 1 1/2"x22 GAGE STEEL DECK - TYPICAL AT SOUTH ENTRY CANOPIES U.N.O.

11. CEILING JOISTS BELOW PER DETAIL 31 - TYP AT SOUTH ENTRY CANOPIES.

13. PROVIDE CS14 STRAP WITH 10d NAILS AT 2" O.C. TO FLAT 3x BLOCKING -

14. PROVIDE 2xBLOCKING AT ALL PLYWOOD PANEL EDGES WITH 8d AT 6" O.C. AT LEDGERS AND 6" O.C. AT OTHER PANEL EDGES IN AREA INDICATED.

FOR ATTACHMENT, SEE GENERAL STRUCTURAL NOTES AND DETAIL 29.

MECHANICAL OPENING - TYPICAL. SEE ARCH'L AND MECH'L DRAWINGS FOR

STRAP FOR A 2000# AXIAL (ASD) WIND/SEISMIC LOAD IN TOP CHORD. 7/8"x24 GAGE (MIN) ARCH'L METAL DECK - TYP AT NORTH EXTERIOR PÁTIOS. SEE ARCH'L DRAWINGS FOR ADDITIONAL INFORMATION INCLUDING

CONNECTION TO SUPPORT FRAMING (#8 AT 12" O.C. MAX). DECK SHALL BE

HEADER SCHEDULE (H_)

FRAMING SCHEDULES

1. SEE DETAIL 26 FOR END BEARING CONNECTIONS — TYP.

					RATED FOR 50 PSF (MIN) DESIGN CAPACITY AT 5'-0" SPAN.		
IARK	SIZE	JACK STUDS	KING STUDS	NOTES	4. SLOPE PER ARCH'L DRAWINGS. 5. ROOF DRAIN OPENING — TYPICAL. SEE DETAILS 24 AND 25 FOR FRAMING AT OPENINGS. FOR EVALUATION OF OPENINGS.		
H1	6x6	1 - 2x6	2 – 2x6 U.N.O.		AT OPENINGS. FOR EXACT SIZE, LAYOUT AND LOCATION OF OPENINGS, SEE ARCH'L AND PLUMBING DRAWINGS. 6. MECHANICAL UNIT — TYPICAL U.N.O. SEE DETAIL 25 FOR ROOF MOUNTED		
H2	6x8	2 - 2x6	2 – 2x6 U.N.O.		UNIT SUPPORT. WEIGHTS AND LOCATION OF MECHANICAL UNITS ARE APPROXIMATE. FOR EXACT WEIGHTS, LOCATIONS, DUCT OPENINGS, ADDITIONAL UNITS, ETC., SEE ARCH'L AND MECH'L DRAWINGS. PROVIDE ADDITIONAL TRUSSES AS REQUIRED. LOADS INDICATED ON PLAN INCLUDES A 20%		
					INCREASE AS REQUIRED BY IBC.		

PREFABRICATED WOOD TRUSS SCHEDULE (T_)

- 1. TYPICAL DESIGN LOAD: DEAD LOAD = 25 PSF (15 PSF TOP CHORD, 10 PSF BOTTOM CHORD), LIVE LOAD = 20 PSF (REDUCIBLE) - TYP U.N.O.
- 2. SEE ARCH'L DRAWINGS FOR ADDITIONAL TRUSS DEPTHS AND INFORMATION TYP U.N.O. DESIGN TRUSSES FOR 7 PSF (ASD) NET WIND UPLIFT LOAD — TYP U.N.O.
- 4. DESIGN ALL ROOF TRUSSES FOR 150 LB DEAD LOAD, ADD LOAD AT ANY TOP CHORD. PANEL POINT CONCURRENT WITH OTHER LOADS - TYP U.N.O.
- 5. PROVIDE WIDER TRUSS BAYS AS REQUIRED FOR MECHANICAL UNIT PLACEMENT IN ROOF FRAMING SYSTEM. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 6. TRUSS SPACING = 24" O.C. MAX. FINAL SPACING BY TRUSS MANUFACTURER. 7. PROVIDE 2X4 BOTTOM CHORD BEARING AT 12'-0" O.C. MAX. PROVIDE 2X4 WEB MEMBER BRACING AT MIDSPAN OF ALL WEB MEMBERS GREATER THAN 8'-0" LONG. ALL FINAL BRIDGING AND BRACING
- SHALL BE BY TRUSS MANUFACTURER TYPICAL. 8. SEE FRAMING PLANS FOR ADD LOADS INCLUDING, BUT NOT LIMITED TO MECHANICAL UNITS.
- 9. ALL PARAPETS SHALL BE DESIGNED FOR A 45 PSF (ASD) HORIZONTAL COMPONENT AND CLADDING WIND LOAD. TRUSS DESIGNER TO USE SPECIAL LOAD CASE INDICATING THIS DESIGN.
- 11. SEE ARCH'L DRAWINGS.

MARK	PROFILE	NOTES
RT1	24" (i) (i) (ii)	
RT2	VARIES	
RT3		
RT4	(1) (24.7 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	

STEEL BEAM SCHEDULE (SB_)

NOTE: 1. AESS FINISH

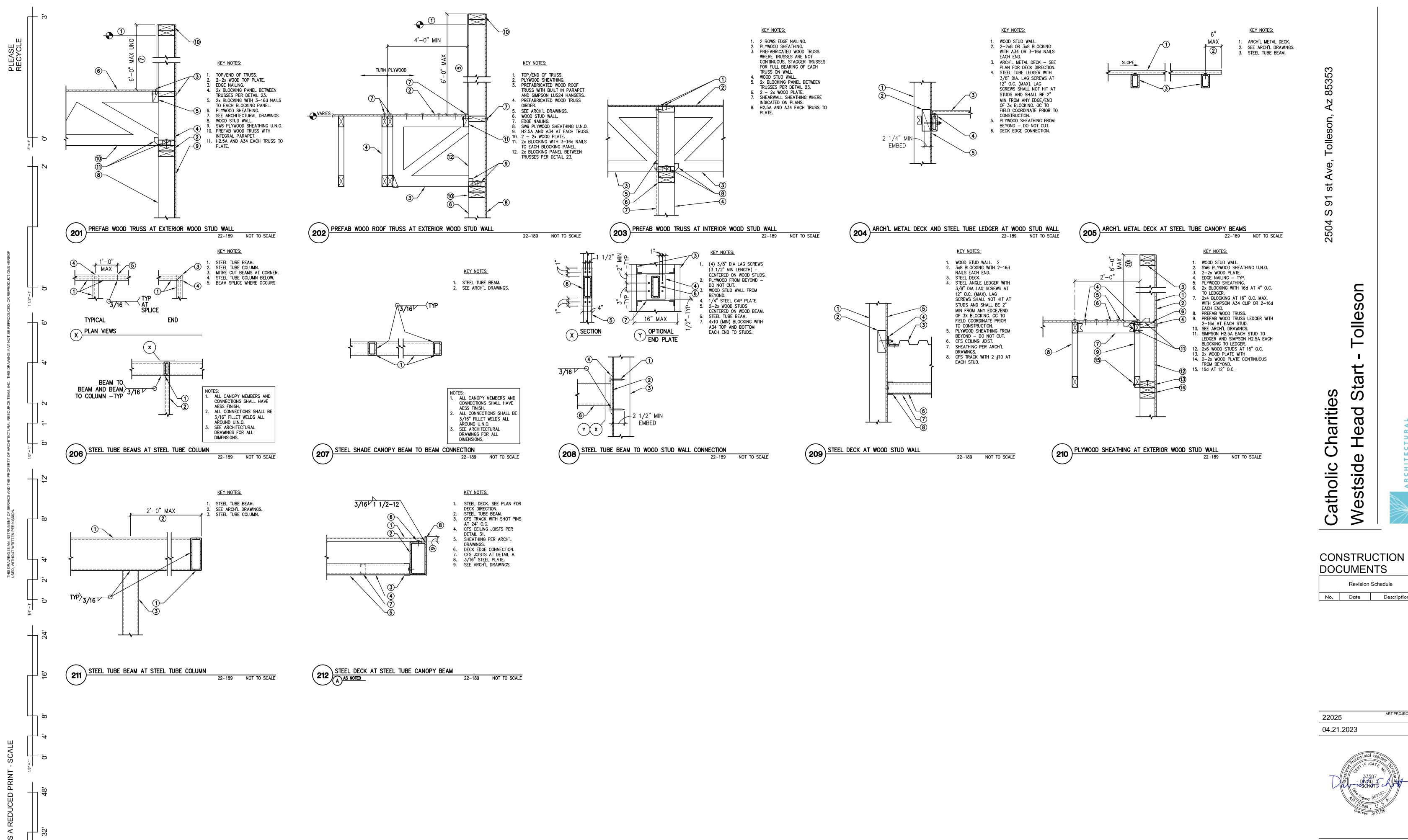
1. ALSS FINISH						
MARK	SIZE	END CONNECTION	NOTES			
SB1	HSS 5x2x3/16	SEE DETAILS	(1)			
SB2	HSS 5x2x3/16	SEE DETAILS	(1)			
SB3	HSS 8x3x3/16	SEE DETAILS				
SB4	HSS 8x3x1/4	SEE DETAILS				

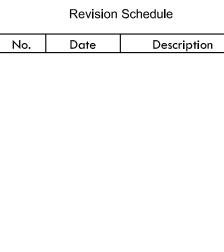
LEDGER SCHEDULE (L_)

NOTES: 1. AESS FINISH.

MARK	SIZE	CONNECTION	NOTES
L1	HSS 5x2x3/16	SEE DETAIL 204	(1)
L2	L 3x3x3/16	SEE DETAIL 213	

 $\begin{array}{c}
\text{ROOF FRAMING PLAN} \\
1/8" = 1'-0"
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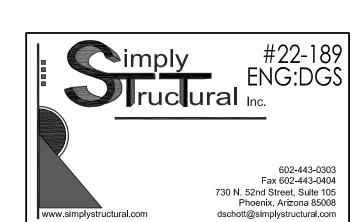
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ART PROJECT NO. 22025 04.21.2023





FRAMING DETAILS 201-220

GENERAL NOTES

- 1. THE SCOPE OF THE MECHANICAL WORK CONSISTS OF WORK SHOWN ON THE PLANS AND AS DESCRIBED IN THE SPECIFICATIONS. IN CASE OF CONFLICT, THE SPECIFICATIONS SHALL GOVERN. PROVIDE A COMPLETE &
- 2. PERFORM ALL WORK IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES. OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND PAY FOR ALL FEES REQUIRED BY AUTHORITIES HAVING JURISDICTION. PAY ALL ROYALTIES OR FEES REQUIRED IN CONNECTION WITH THE USE OF PATENTED DEVICES AND SYSTEMS.
- 3. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR GENERAL CONSTRUCTION INCLUDING LOUVERS, CONCRETE EQUIPMENT PADS, FLASHING DETAILS, ETC. REFER TO ARCHITECTURAL DRAWINGS FOR ROOM ELEVATIONS, LOCATE MECHANICAL DEVICES SUCH AS TEMPERATURE SENSORS, HUMIDISTATS, PANELS, ETC. SO THAT THEY DO NOT CONFLICT WITH GENERAL CONSTRUCTION (WAINSCOT, DOOR HARDWARE, ETC.) NOR WITH ELECTRICAL SYSTEM (LIGHT SWITCHES, SPEAKERS, OUTLETS, ETC.).
- 4. COORDINATE WITH OTHER TRADES:
- A. REFER TO ELECTRICAL DRAWINGS AND CONFIRM ELECTRICAL CHARACTERISTICS SHOWN FOR MECHANICAL EQUIPMENT (VOLTAGE, PHASE, HZ, ETC). MATCHES THAT OF THE MECHANICAL EQUIPMENT PROVIDED. B. PROVIDE ADEQUATE CLEARANCE OF MECHANICAL WORK FROM ELECTRICAL EQUIPMENT. MAINTAIN MINIMUM ACCESS OF 6-INCHES ABOVE CABLE TRAYS AND 18-INCHES TO THE SIDE OF CABLE TRAYS. CLEARANCE ABOVE CABLE TRAY SHOULD BE 1/2 THE WIDTH AND NOT LESS THAN 6-INCHES WHEN RUNNING PARALLEL WITH CABLE TRAY. AND NOT LESS THAN 6-INCHES WHEN RUNNING PERPENDICULAR TO THE
- 5. ARRANGE EQUIPMENT SO THAT ACCESS CLEARANCES INDICATED BY DRAWINGS, REQUIRED BY CODES, OR RECOMMENDED BY MANUFACTURER ARE PROVIDED.
- 6. INSTALL MATERIALS AND SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND ACCEPTED SUBMITTALS. INSTALL MATERIAL IN PROPER RELATION TO ADJACENT CONSTRUCTION AND WITH UNIFORM APPEARANCE FOR EXPOSED WORK.
- 7. THOROUGHLY EXAMINE ALL AREAS WHERE EQUIPMENT, DUCTWORK, AND PIPING WILL BE INSTALLED AND REPORT ANY CONDITION THAT PREVENTS THE PROPER INSTALLATION OF THE MECHANICAL WORK. THE COMMISSIONING SPECIFICATION. INCLUDING ALL FUNCTIONAL TEST PROCEDURES. SHALL BE PROVIDED AND ENFORCED BY THE CONTRACTOR.
- 8. PROVIDE A SINGLE SUBMITTAL OF ALL MECHANICAL EQUIPMENT AS SPECIFIED. AS A MINIMUM. SUBMIT PRODUCT DATA FOR ALL EQUIPMENT AND FIXTURES LISTED IN ACCOMPANYING SCHEDULES FOR APPROVAL.
- 9. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 10. ARRANGEMENT OF SYSTEMS INDICATED ON THE DRAWINGS IS DIAGRAMMATIC, AND INDICATES THE MINIMUM REQUIREMENTS FOR PLUMBING AND MECHANICAL WORK. ADJUST TERMINAL UNIT LOCATIONS, BASED ON FIELD MEASUREMENTS, TO AVOID INSTALLATION ABOVE DESKS. SITE CONDITIONS SHALL DETERMINE THE ACTUAL ARRANGEMENT OF THE WORK. TAKE FIELD MEASUREMENTS BEFORE PREPARING SHOP DRAWINGS, OBTAIN APPROVAL OF SHOP DRAWINGS BEFORE BEGINNING FABRICATION. BE RESPONSIBLE FOR ACCURACY OF DIMENSIONS AND LAYOUT. OVERHEAD PIPING AND DUCTWORK SHALL BE ARRANGED TO OBTAIN MAXIMUM
- 11. CLEAN AND PROTECT WORK FROM DAMAGE. RESTORE DAMAGED FINISHES. COVER ENDS OF PIPING AND DUCTWORK NOT ACTIVELY BEING WORKED ON.
- 12. MODIFY AND EXTEND EXISTING SERVICE TO ACCOMMODATE NEW WORK. RELOCATE EXISTING COMPONENTS AS REQUIRED FOR NEW SYSTEM. COORDINATE WITH BUILDING MANAGEMENT.
- 13. PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS, WHICH HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR THREE YEARS. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 14. DO NOT CUT STRUCTURAL ELEMENTS WITHOUT PRIOR WRITTEN APPROVAL.
- 15. CONCEAL PIPING AND DUCTWORK TO THE GREATEST EXTENT POSSIBLE
- 16. INSTRUCT OWNER IN PROPER OPERATION OF SYSTEMS.
- 17. DRAWINGS DO NOT SHOW ALL OFFSETS WHICH MAY BE REQUIRED. MAKE OFFSETS WITH FITTINGS USING THE LEAST ANGLE OF OFFSET POSSIBLE. DUCTWORK & PIPING SHALL BE ROUTED TO AVOID ALL STRUCTURAL SUPPORTS, AND COORDINATED WITH WORK OF OTHER TRADES.
- 18. MATERIALS, METHODS, AND INSTALLATION SHALL COMPLY WITH THE PROVISIONS OF THE LATEST EDITION OF THE FOLLOWING CODES AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION (TOLLESON).
- 2018 INTERNATIONAL BUILDING CODE (IBC) 2018 INTERNATIONAL MECHANICAL CODE (IMC)
- 2018 INTERNATIONAL PLUMBING CODE (IPC)
- 2018 INTERNATIONAL FIRE CODE (IFC)
- 2018 INTERNATIONAL FUEL GAS CODE (IFGC)

SHEETMETAL NOTES

- 1. PERFORM ALL SHEETMETAL WORK IN ACCORDANCE WITH CURRENT SMACNA STANDARDS.
- 2. DUCT SEALING SHALL MEET REQUIREMENTS LISTED IN CHAPTER 6 OF IMC WITH LOCAL AMENDMENTS. IN ADDITION, PROVIDE SEAL CLASS A FOR ALL DUCTWORK.
- 3. CONSTRUCT DUCTS WITH G-90 OR BETTER GALVANIZED STEEL (ASTM 527) LFQ.
- 4. CONSTRUCT RECTANGULAR DUCTWORK TO MEET ALL FUNCTIONAL CRITERIA DEFINED IN CHAPTER 11, OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARDS. PROVIDE DIAGONAL CREASING OR BEADING ON ALL PANELS WIDER THAN 18-INCHES, AND PANELS LESS THAN 18 GAGE. CONSTRUCT ROUND AND FLAT OVAL DUCTWORK IN ACCORDANCE WITH CHAPTER 3 OF SMACNA HDCS.
- 5. DUCTMATE, METU, OR W.D.C.I. DUCT CONNECTION SYSTEMS ARE ACCEPTABLE. DUCTS CONSTRUCTED USING THESE SYSTEMS WILL REFER TO THE MANUFACTURER'S GUIDELINES FOR SHEET GAGE, INTERMEDIATE REINFORCEMENT SIZE AND SPACING, AND JOINT REINFORCEMENTS.
- 6. PROVIDE COLLARS WHEREVER AN EXPOSED DUCT PASSES THROUGH A WALL, SLAB, OR CEILING:1-INCH WIDE, 18-GAGE ANGLE WITH MITERED CORNERS & SEAL WITH FIBERGLASS AND MASTIC.
- 7. SPIN-IN FITTINGS SHALL BE CONICAL TYPE WITH VOLUME DAMPER, AND QUADRANT; FLEX MASTER ELGEN OR
- 8. ELBOWS IN RECTANGULAR OR SQUARE DUCTWORK SHALL HAVE AN INSIDE RADIUS EQUAL TO DIMENSION OF ELBOW IN THE PLANE OF THE TURN.
- 9. ELBOWS IN ROUND DUCTWORK SHALL HAVE THE INSIDE RADIUS EQUAL TO DIMENSION OF ELBOW IN THE PLANE OF THE TURN. USE SEGMENTED, STANDING SEAM, PLEATED, OR STAMPED ELBOWS. ADJUSTABLE ELBOWS ARE ALLOWED IF RADIUS CONFORMS TO ABOVE.
- 10. SQUARE CORNER INSERTS (TURNING VANES) SHALL BE SMACNA FIG. 4.3 DOUBLE THICKNESS, RUNNER TYPE 2 WITH 2-1/8-INCH SPACING.
- 11. VOLUME DAMPERS ARE NOT SHOWN GENERALLY. INCLUDE A DAMPER IN THE DUCT TO EACH SUPPLY, EXHAUST, OR RETURN OPENING; ALSO IN EACH BRANCH DUCT WHERE THREE OR MORE OPENINGS ARE ASSOCIATED WITH THE BRANCH. LOCATE DAMPERS AT A POINT WHERE THE DUCT IS ACCESSIBLE; AS FAR FROM THE OUTLET AS POSSIBLE. DO NOT PROVIDE VOLUME DAMPER ON SUPPLY DUCTWORK UPSTREAM OF TERMINAL UNITS. DAMPERS SHALL BE RUSKIN MD25 OR MDRS25.
- 12. THOROUGHLY CLEAN ALL DEBRIS FROM THE INSIDE OF ALL DUCTWORK AND PLENUMS.
- 13. MECHANICAL DRAWINGS SHOW APPROXIMATE LOCATIONS FOR GRILLES AND DIFFUSERS. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS FOR EXACT LOCATIONS. AFTER SHOP DRAWINGS ARE COMPLETED VERIFY EXACT LOCATION OF GRILLES AND DIFFUSERS IN THE FIELD. ENSURE THAT DIFFUSER AND GRILLE FRAMES MATCH CEILING TYPES AND FINISH PRIOR TO ORDERING.
- 14. CONNECT FLEXIBLE DUCTS TO METAL DUCTS WITH A SLIP JOINT MADE USING FIRE RESISTANT MASTIC AND CLAMP, IDEAL "SNAP-LOCK" OR VENTLOCK "SURETIGHT NO. 670" AT EACH END. SUPPORT IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS. DO NOT INSTALL WITH ABRUPT BENDS OR OFFSETS. MAXIMUM LENGTH 5-FEET. LOW PRESSURE INSULATED FLEXIBLE DUCT SHALL BE THERMAFLEX MK-E. HIGH PRESSURE INSULATED FLEXIBLE DUCT SHALL BE THERAMFLEX MK-C.

ENERGY CODE MECHANICAL NOTES:

- 1. HEAT PUMPS HAVING SUPPLEMENTARY ELECTRIC RESISTANCE HEAT SHALL HAVE CONTROLS THAT, EXCEPT DURING DEFROST, PREVENT SUPPLEMENTARY HEAT OPERATION WHEN THE HEAT PUMP CAN MEET THE HEATING LOAD.
- 2. WHERE USED TO CONTROL BOTH HEATING AND COOLING, ZONE THERMOSTATIC CONTROLS SHALL PROVIDE A TEMPERATURE RANGE OR DEADBAND OF AT LEAST 5°F WITHIN WHICH THE SUPPLY OF HEATING AND COOLING ENERGY TO THE ZONE IS CAPABLE OF BEING SHUT OFF OR REDUCED TO A MINIMUM.
- 3. EACH HVAC SYSTEM SHALL HAVE CONTROLS THAT VARY THE START-UP TIME OF THE SYSTEM TO JUST MEET THE TEMPERATURE SET POINT AT TIME OF OCCUPANCY.
- 4. EACH ZONE SHALL BE PROVIDED WITH THERMOSTATIC SETBACK CONTROLS THAT ARE CONTROLLED BY EITHER AN AUTOMATIC TIME CLOCK OR PROGRAMMABLE CONTROL SYSTEM.
- 5. WHERE A HUMIDITY CONTROL DEVICE EXISTS IT SHALL BE SET TO MAINTAIN A DEADBAND OF AT LEAST 10% RELATIVE HUMIDITY WHERE NO ACTIVE HUMIDIFICATION OR DEHUMIDIFICATION TAKES PLACE.
- 6. ALL LONGITUDINAL AND TRANSVERSE JOINTS, SEAMS AND CONNECTIONS OF LOW-PRESSURE SUPPLY AND RETURN DUCTS SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS (ADHESIVES), MASTIC-PLUS-EMBEDDED-FABRIC SYSTEMS OR TAPES INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

- A. CONTINUOUSLY WELDED AND LOCKING-TYPE LONGITUDINAL JOINTS AND SEAMS ON DUCTS OPERATING AT STATIC PRESSURES LESS THAN 2 INCHES W.G. PRESSURE CLASSIFICATION.
- 7. PROVIDE AN OPERATING AND MAINTENANCE MANUAL TO THE BUILDING OWNER.

ABBREVIATIONS

A	AIR, AMP	IDE	DIAMETER, INDIRECT DRAIN
ACU	AIR CONDITIONING UNIT	IE 	INVERT ELEVATION
AFF	ABOVE FINISHED FLOOR	IH	INTAKE HOOD
AHU	AIR HANDLING UNIT	IN	INCH
AL	ALUMINUM, ACOUSTICAL LINING	INIT INT	INITIAL
ARRGT ATM	ARRANGEMENT ATMOSPHERE	IPLV	INTERIOR INTEGRATED PART LOAD VALUE
ATW	ATMOST FIERE	II LV	INTEGRATED FART EGAD VALUE
ВС	BLOWER COIL	KW	KILOWATT
BDD	BACKDRAFT DAMPER	KWH	KILOWATT HOURS
BFF	BELOW FINISHED FLOOR		
BFP	BACKFLOW PREVENTER	L	LENGTH
BHP	BRAKE HORSEPOWER	LAT	LEAVING AIR TEMPERATURE
BLDG	BUILDING	LB	POUND, LINEAR BAR
BOB	BOTTOM OF BLICT	LBS	POUNDS
BOD BOS	BOTTOM OF DUCT BOTTOM OF STEEL	LD LWT	LINEAR DIFFUSER LEAVING WATER TEMPERATURE
BTUH	BRITISH THERMAL UNITS PER HOUR	LVVI	LEAVING WATER TEINI ERATORE
2.0		MAX	MAXIMUM
CAP	CAPACITY	MBH	THOUSAND BTU PER HOUR
CC	COOLING COIL	MCA	MINIMUM CIRCUIT AMPACITY
CD	CEILING DIFFUSER	MD	MANUAL DAMPER
CFM	CUBIC FEET PER MINUTE	MECH	MECHANICAL
CHR	CHILLED WATER RETURN	MFR	MANUFACTURER
CHS	CHILLED WATER SUPPLY	MIN	MINIMUM
CI CLG	CAST IRON	MOCP	MAXIMUM OVER CURRENT PROTECTION
CNTFGL	CEILING, COOLING CENTRIFUGAL	MOD MTR	MOTOR OPERATED DAMPER MOTOR
CO	CLEANOUT	IVITIX	MOTOR
CONC	CONCRETE	NC	NORMALLY CLOSED
COND	CONDENSATE	NEG	NEGATIVE
CONT	CONTINUE, CONTROL	NIC	NOT IN CONTRACT
COMP	COMPRESSOR	NO	NUMBER, NORMALLY OPEN
COP	COEFFICIENT OF PERFORMANCE	NTS	NOT TO SCALE
CP	CIRCULATING PUMP	0.4	OUTDOOD AID
CRU	CONDENSATE RETURN UNIT	OA	OUTDOOR AIR
CU CU FT	CONDENSING UNIT CUBIC FEET	OC OD	ON CENTER OUTSIDE DIAMETER
CV	CONSTANT VOLUME	OPNG	OPENING
CVTR	CONVERTER	ORD	OVERFLOW ROOF DRAIN
CW	COLD WATER	ORL	OVERFLOW RAIN LEADER
CWR	CONDENSER WATER RETURN		
CWS	CONDENSER WATER SUPPLY	Р	PUMP, PLUMBING
		PD	PRESSURE DROP
dB	DECIBELS	PH	PHASE
DB	DRY BULB	POC	POINT OF CONNECTION
DCVA DEG	DOUBLE CHECK VALVE ASSEMBLY	POS PR	POSITIVE PUMPED RETURN
DEG	DEGREE DRINKING FOUNTAIN	P/T	PRESSURE/TEMPERATURE
DI	DE-IONIZED	PVC	POLYVINYL CHLORIDE
DIA	DIAMETER	1 10	TOETVILLE ONEONIDE
DMPR	DAMPER	QTY	QUANTITY
DN	DOWN		
DS	DOWNSPOUT	RA	RETURN AIR
_		RD	ROOF DRAIN
E	EXISTING	REF	REFERENCE
EA EAT	EXHAUST AIR ENTERING AIR TEMPERATURE	REQD RF	REQUIRED RETURN FAN
EER	ENERGY EFFICIENCY RATING	RG	RETURN GRILLE
EF	EXHAUST FAN	RH	RELIEF HOOD, RELATIVE HUMIDITY
EFF	EFFICIENCY	RL	RAIN LEADER
EG	EXHAUST GRILLE	RPBFP	REDUCED PRESSURE BACKFLOW
EL	ELEVATION		PREVENTER
	EQUIPMENT	RPM	REVOLUTIONS PER MINUTE
ESP	EXTERNAL STATIC PRESSURE	0	COII
EWT EXH	ENTERING WATER TEMPERATURE	S SA	SOIL SUPPLY AIR
EWC	EXHAUST ELECTRIC WATER COOLER	SD	STORM DRAIN, SMOKE DAMPER
EXIST		SENS	SENSIBLE
EXP	EXPANSION	SEER	SEASONAL ENERGY EFFICIENCY RATING
EXT	EXTERIOR, EXTERNAL	SF	SUPPLY FAN, SQUARE FEET
		SG	SUPPLY GRILLE
F	FAHRENHEIT, FIRE LINE	SL	SOUNDLINING
FD	FIRE DAMPER, FLOOR DRAIN	SP	STATIC PRESSURE
FDC FLA	FIRE DEPARTMENT CONNECTION FULL LOAD AMPS	SPR SS	SPRINKLER STAINLESS STEEL, SANITARY SEWER
FLA FLR	FLOOR	STP	STAINLESS STEEL, SANTTARY SEWER STANDPIPE
FLTR	FILTER	011	CIANDIII E
FM	FLOW METER	T	THERMOSTAT
FOB	FLAT ON BOTTOM	TEMP	TEMPERATURE
FO	FLAT OVAL	TG	TRANSFER GRILLE
FOT	FLAT ON TOP	TOD	TOP OF DUCT
FPM	FFFT PFR MINUTE	TOT	TOTAL

FEET PER MINUTE

FEET PER SECOND

FIRE SMOKE DAMPER

FEET, FAN TERMINAL

GALLONS PER MINUTE

HUMIDIFIER, HEIGHT

FACE VELOCITY

GALLONS

GALVANIZED

HOSE BIBB

HEATING HOT WATER

HERTZ

HEATING COIL

HEAT EXCHANGE HAND-OFF-AUTOMATIC

HORSEPOWER, HEAT PUMP

HIGH PRESSURE STEAM

HOT WATER CIRCULATING

HEATING WATER SUPPLY

HOT WATER PUMP HEATING WATER RETURN

GAL

GALV

GPM

HEX

HWS

CONSTRUCTION **DOCUMENTS** Revision Schedule No. Date Description

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ART PROJECT NO. 22025 04.21.2023



GENERAL NOTES ABBREVIATIONS AND SHEET INDEX

MECHANICAL SHEET INDEX M0.00 GENERAL NOTES, ABBREVIATIONS AND SHEET INDEX M0.01 MECHANICAL LEGEND M2.00 MECHANICAL SCHEDULES M3.01 MECHANICAL HVAC - PLAN MECHANICAL - ROOF PLAN M7.00 MECHANICAL DETAILS M9.00 MECHANICAL SHEET SPECIFICATION

TOT

TSP

VAV

VEL

VFD

WG

TRAP PRIMER, TOTAL PRESSURE

TOTAL STATIC PRESSURE

UNLESS OTHERWISE NOTED

VARIABLE FREQUENCY DRIVE VENT THROUGH ROOF

WASTE, WATER, WATT, WIDTH

WATER HEATER, WALL HYDRANT

VARIABLE AIR VOLUME

TERMINAL UNIT

UNIT HEATER

VENT, VOLT

VELOCITY

WET BULB WATER GAGE

WATER

VALVE

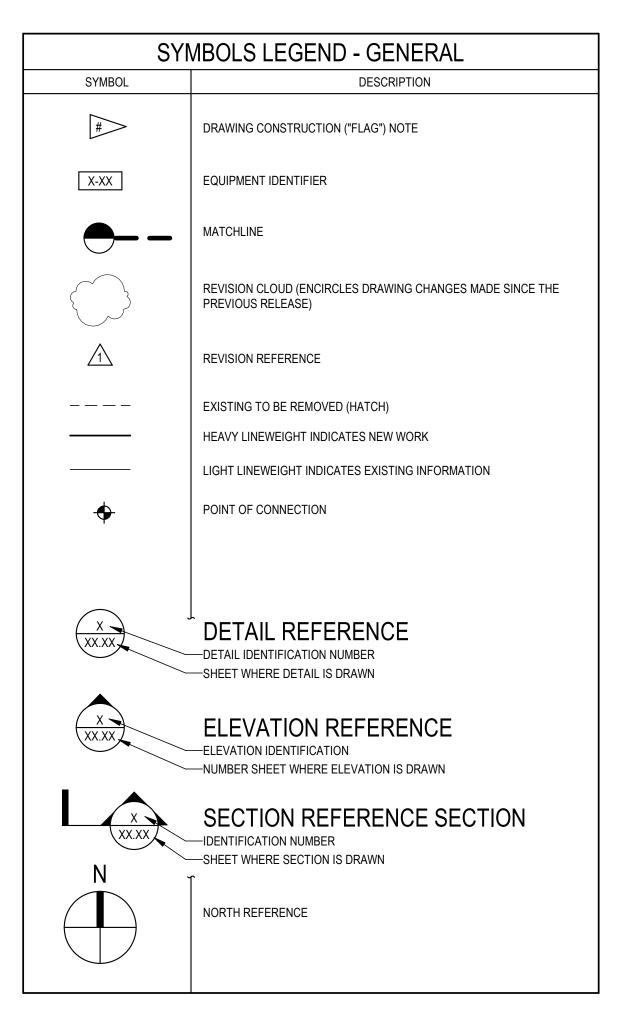
TYPICAL

SÄZÄN

311 E. Veterans Way, Ste. 102 Tempe, AZ 85281 Tel 480.530.9101

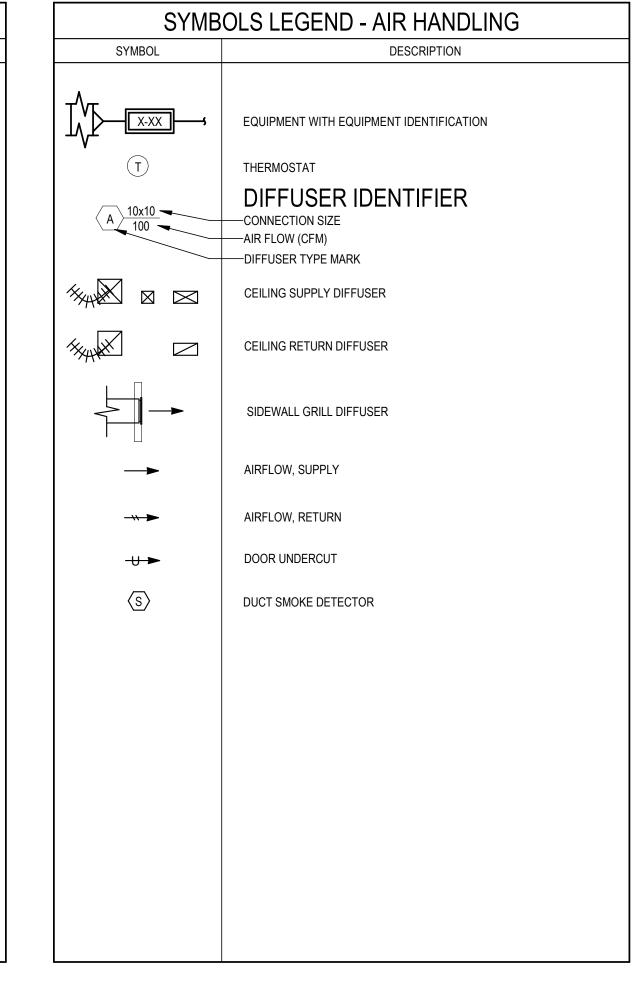
SAZAN# 700-22061

Fax 480.530.9130

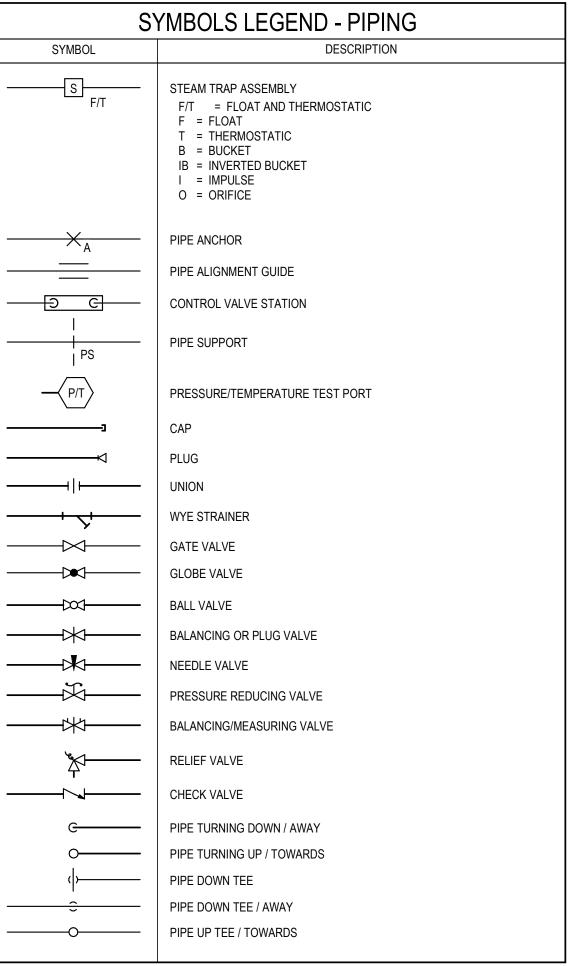


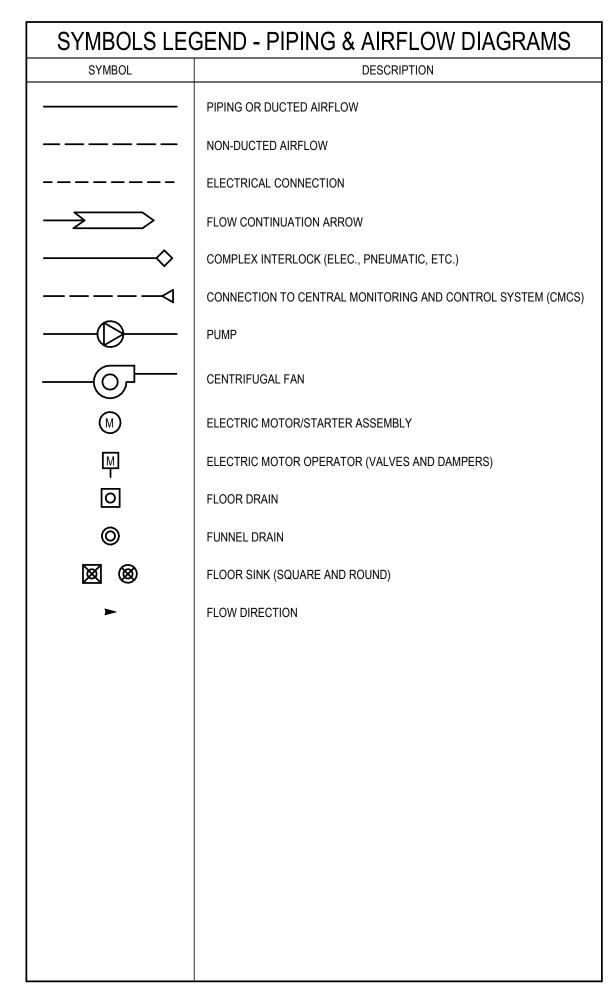
SYMBOLS LEGEND - AIR HANDLING						
SYMBOL	DESCRIPTION					
	SUPPLY AIR DUCT - UP					
	SUPPLY AIR DUCT - DOWN					
	RETURN AIR DUCT - UP					
	RETURN AIR DUCT - DOWN					
	OUTSIDE AIR DUCT - UP					
	OUTSIDE AIR DUCT - DOWN					
	EXHAUST AIR DUCT - UP					
	EXHAUST AIR DUCT - DOWN					
8	FLAT-OVAL DUCT - TURNING TOWARD					
8	FLAT-OVAL DUCT - TURNING AWAY					
R—P	INCLINE RISE (R) OR DROP (D) IN DIRECTION OF ARROW					
	FLEXIBLE CONNECTION					
AD AP	ACCESS DOOR (AD) OR ACCESS PANEL (AP)					
— — — — — — — — — —	VOLUME DAMPER					
FD FD	FIRE DAMPER					
SD SD	SMOKE DAMPER					
FSD FSD	FIRE SMOKE DAMPER					
M M	MOTOR OPERATED DAMPER					
BDD BDD	BACKDRAFT DAMPER					
	FLEXIBLE DUCT					

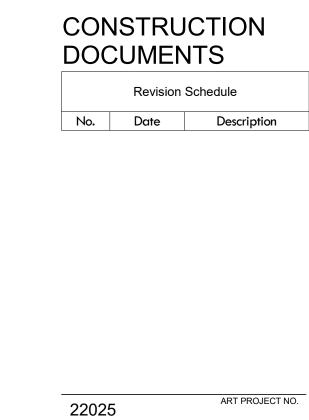
SYMB	OLS LEGEND - AIR HANDLING
SYMBOL	DESCRIPTION
	ROUND, 90° ELBOW, R/W OR R/D = 1.5
	RECTANGULAR, 90° ELBOW, R/W OR R/D = 1.5
	RECTANGULAR OR ROUND, 90° ELBOW, R/W OR R/D = 1.5
	SQUARE CORNER ELBOW WITH TURNING VANE
	45° BRANCH CONNECTION
	RECTANGULAR BRANCH TO RECTANGULAR DUCT CONNECTION WITH 45° TAPER
, <u> </u>	ROUND OR RECTANGULAR BRANCH TO ROUND OR RECTANGULAR DUCT CONNECTION
	ROUND BRANCH TO RECTANGULAR DUCT CONNECTION
	ROUND BRANCH TO ROUND DUCT CONNECTION
→	TRANSITION OR REDUCER - NOTED FOT (FLAT ON TOP) OR FOB (FLATON BOTTOM) IF REQUIRED
	RECTANGULAR TO ROUND TRANSITION



	SYMBOLS LEGEND - PIPING
SYMBOL	DESCRIPTION
	SOIL OR WASTE
	VENT
	RAIN LEADER
ORL	OVERFLOW RAIN LEADER
ID	INDIRECT DRAIN
	COLD WATER
	HOT WATER
	HOT WATER CIRCULATING
140° HW	140° POTABLE HOT WATER
120° HW	120° POTABLE HOT WATER
	FIRE
SPR	SPRINKLER
STP —	STANDPIPE
——————————————————————————————————————	HIGH PRESSURE STEAM
	HEATING WATER SUPPLY
HWS-	
HWR—	HEATING WATER CURRING
CHS —	
—— CHR ———	CHILLED WATER RETURN
	REDUCER, CONCENTRIC
XX	WYE STRAINER WITH CAPPED HOSE AND BLOWDOWN VALVE
4	ANGLE VALVE
	AUTOMATIC CONTROL VALVE - TWO WAY (PNEUMATIC OPERATOR SHOWN)
M ————————————————————————————————————	AUTOMATIC CONTROL VALVE - THREE WAY (ELECTRIC OPERATOR SHOWN)
<i>></i>	BUTTERFLY VALVE
=	FLEXIBLE CONNECTION IN PIPING
MAV AAV	MANUAL AIR VENT (MAV), AUTOMATIC AIR VENT (AAV)
Y	PRESSURE GAUGE
<u> </u>	THERMOMETER
<u>\</u>	THERMOMETER WELL
<u> </u>	SIGHT GLASS







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04.21.2023



MECHANICAL LEGEND

Tel 480.530.9101 Fax 480.530.9130 SAZAN# 700-22061

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GROUP

311 E. Veterans Way, Ste. 102 Tempe, AZ 85281

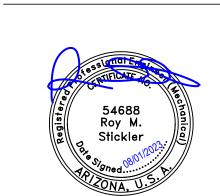
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CONSTRUCTION

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MECHANICAL SCHEDULES

						ENEF	RGY REC	OVERY	VENTIL	ATOR S	CHEDU	JLE														
			BASIS OI	F DESIGN			ENTHALPY			S	UPPLY AIR							EXHAUST	AIR							
EQUIP. NO	LOCATION	SERVICE	MANUFACTURER	SERIES	ALTERNATIVE MANUFACTURER	MODE	RECOVERY RATIO (%)	AIRFLOW (CFM)	ESP (IN WG)	MOTOR (HP)	EAT DB (DEG F)	EAT WB (DEG F)	LAT DB (DEG F)	LAT WB (DEG F)	AIRFLOW (CFM)	ESP (IN WG)	MOTOR (HP)	EAT DB (DEG F)	EAT WB (DEG F)	LAT DB (DEG F)	LAT WB (DEG F)	MCA	MOCP	SINGLE POINT V/PH/HZ	WEIGHT LBS	REMARKS
ERV-01	ROOF	RTU-01 THRU 04	GREENHECK	ERVe-20-15H	TRANE	SUMMER	75	1800	0.5	1	115	72	85.1	62.9	1800	0.5	1	75	40	104.1	69.2	20.3	25	208/60/1	1000	1,2,3
ERV-UI	ROOF	R10-01 INKO 04	GREENHEUN	ERVE-20-13H	TRAINE	WINTER	70	1800	0.5	1	34	28.5	61.7	48.8	1800	0.5	1	72	55.6	44	37.6	20.3	20	208/60/1	1000	1,2,3
DEMARKO.											_					·									-	

	PACKAGED ROOFTOP AIR CONDITIONING UNIT SCHEDULE (HEAT PUMP)																														
		BASIS OF DI	ESIGN	NOMINIAL					CI	JPPLY AIR FA	ΛNI					COOLING						HEATING			FILTER		ELECTRI	CAL	MAXIMUM	ODEDATING	
EQUIP. NO	LOCATION			NOMINAL CAPACITY	SUPPLY AIR	MIN OUTSIDE	ECONOMIZER			JEFLI AIR F	HIN .		TOTAL	SENSIBLE		А	JR .			ELEC	HEAT PUMP	,	AIR		MERV				SOUND	OPERATING WEIGHT	REMARKS
24011.110	200/111011	MANUFACTURER	SERIES	(TONS)	CFM	AIR CFM	200110MIZER	EXT SP (IN WG)	TYPE	MOTOR BHP	DRIVE	VFD	LOAD (MBH)	LOAD (MBH)	EAT DB (DEG F)	EAT WB (DEG F)	LAT DB (DEG F)	LAT WB (DEG F)	SEER	HEAT (KW)	HEAT (MBH)	EAT DB (DEG F)	EAT DB (DEG F)	COP	MERV RATING	MCA	MOCP	V/PH/HZ	PRESSURE (dBA)	(LBS)	1.2
RTU-01	ROOF	TRANE	WSC036	3	1000	450	N	0.5	ECM	0.26	DIRECT	N	30	30	83.1	62.5	51.2	50.9	14.3	6	35.1	70	92.1	3.7	13	42	50	208/3/60	75.4	635	1,2,3
RTU-02	ROOF	TRANE	WSC036	3	1000	450	N	0.5	ECM	0.26	DIRECT	N	30	30	83.1	62.5	51.2	50.9	14.3	6	35.1	70	92.1	3.7	13	42	50	208/3/60	75.4	635	1,2,3
RTU-03	ROOF	TRANE	WSC036	3	1000	450	N	0.5	ECM	0.26	DIRECT	N	30	30	83.1	62.5	51.2	50.9	14.3	6	35.1	70	92.1	3.7	13	42	50	208/3/60	75.4	635	1,2,3
RTU-04	ROOF	TRANE	WSC060	5	2000	450	N	0.5	ECM	0.69	DIRECT	N	47.3	45.4	78.7	61	54.9	53.2	14.3	6	57.2	70	91.6	3.7	13	47	60	208/3/60	75.4	700	1,2,3

1. PROVIDE MANUFACTURER'S INSULATED 14" ROOF CURB

2. OUTDOOR AIR IS TEMPERED BY ERV-01 AND IS DUCTED TO RETURN DUCT.

3. PROVIDE WITH PROGRAMMABLE 7-DAY THERMOSTAT. UNITS SHALL OPERATE IN "FAN ON" MODE DURING OCCUPIED HOURS.

	IT ROOM AIR CONDITIONING UNIT SCHEDULE												
				COOLIN	NG CAPACITY			ELECTRIC	AL				
EQPT TAG	FAN UNIT MODEL#	MODEL	COOLING COIL TOTAL CAPACITY	CFM	ENTERING AIR TEMP (DEG F)	LEAVING AIR TEMP (DEG F)	FILTER	VOLT/PHASE/FREQ	MCA	MOCP	SEER	WEIGHT	REMARKS
IU-1/OU-1	MITSUBISHI	PKA-A24KA7/PUY-A24NHA7	24 MBH	775	82	53	WASHABLE FILTER	208/1/60	19	26	21.4	151 LB	1,2,3

1. PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. 2. DISCONNECT SWITCH FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
3. SIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS.

. PROVIDE 2" DEEP MERV 8 PRE-FILTER PRIOR TO SUPPLY AND EXHAUST FANS

. UNIT OPERATION SHALL BE INTERLOCKED WITH HEAT PUMP RTUS. VENTILATION AND HEAT PUMPS SHALL OPERATE IN "FAN ON" MODE DURING OCCUPIED HOURS.

. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.



Project Information

Energy Code: 2018 IECC Catholic Charities Head Start Tolleson Project Title: Phoenix, Arizona Location: Climate Zone: Project Type: **New Construction**

Construction Site: Owner/Agent: Designer/Contractor:

Additional Efficiency Package(s) Credits: 1.0 Required 1.0 Proposed Reduced Lighting Power, 1.0 credit **Mechanical Systems List**

QuantitySystem Type & Description

3 HVAC System (Unknown): Single Package Heat Pump Heating Mode: Capacity = 35 kBtu/h, Proposed Efficiency = 8.20 HSPF, Required Efficiency = 8.00 HSPF

Cooling Mode: Capacity = 30 kBtu/h, Proposed Efficiency = 14.30 SEER, Required Efficiency = 14.00 SEER
Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00

1 HVAC System (Unknown):

Single Package Heat Pump Heating Mode: Capacity = 57 kBtu/h,
Proposed Efficiency = 8.20 HSPF, Required Efficiency = 8.00 HSPF Cooling Mode: Capacity = 47 kBtu/h, Proposed Efficiency = 14.30 SEER, Required Efficiency = 14.00 SEER
Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable

mandatory requirements listed in the Inspection Checklist. MICHAEL BARTELT - MECHANICAL ENGINEER 4/26/2023 Name - Title

Project Title: Catholic Charities Head Start Tolleson Report date: 04/26/23 Data filename: Page 1 of 9

		VEN	NTILATIO	N CALCU	LATION	S - CAL	CULATED	PER A	SHRAE	62.1		
ZONE	ROOM NAME	AREA (SQ FT)	OCCUPANT DENSITY (# PEOPLE/1000 SQ. FT.)	PEOPLE OUTDOOR AIR RATE (CFM/PERSON)	#OCCUPANTS	AREA OUTDOOR AIR RATE (CFM/SQ. FT.)	EFFECTIVENESS	REQUIRED OUTDOOR AIR, CFM	OUTDOOR AIR PROVIDED, CFM	MIN EXHAUST CFM	EXHAUST PROVIDED, CFM	NOTE
1	CLASSROOM 1	804	25	10	21	0.18	0.8	443				
1	107 - TOILET	46	-	-	-	-	-	0		100	415	
							TOTAL	443	450		415	
2	CLASSROOM 2	815	25	10	21	0.18	0.8	446				
2	108 - TOILET	88	-	-	-	-	-	0		100	415	
							TOTAL	446	450		415	
3	CLASSROOM 3	822	25	10	21	0.18	0.8	447				
3	TOILET	110	-	-	-	-	-	0		100	415	
							TOTAL	447	450		415	
4	114 - EHS	533	25	10	14	0.18	0.8	295				
4	113 - TOILET	93	-	-	-	-	-	0		50	170	
4	117 - FSS OFFICE	90	5	5	1	0.06	0.8	13				
4	116 - AREA MANAGER	90	5	5	1	0.06	0.8	13				
4	118 - DIRECTOR	90	5	5	1	0.06	0.8	13				
4	100 - LOBBY	56	10	5	1	0.06	0.8	10				
4	101 - WORK/COPY	78	5	5	1	0.06	0.8	12				
4	102 - LAUNDRY/JAN	78	10	5	1	0.12	0.8	18		78	80	
4	103 - FOOD INTAKE/STORAGE	250	5	5	2	0.06	0.8	31		75	100	
4	119 - CORRIDOR	383	0	5	0	0.06	0.8	29				
4	115 - TOILET	59	-	-	-	-	-	0		50	100	
4	STORAGE	25	2	5	1	0.06	0.8	8				
4	IT CLOSET	23	0	5	0	0.06	0.8	2			105	
							TOTAL	444	450		555	

DIFFUSER-GRILLE SCHEDULE									
EQUIP. NO	LOCATION	SERVICE	BASIS OF D	DESIGN	DESCRIPTION	MAXIMUM SOUND PRESSURE	REMARKS		
EQUIF. NO	LOCATION	SERVICE	MANUFACTURER	SERIES	DESCRIPTION	(dBA)	KEWAKKO		
CD-1	CEILING	SUPPLY DIFFUSER	TITUS	TMS	STAMPED CONE DIFFUSER, 24X24	25	1,2,3		
EG-1	CEILING	RETURN GRILLE	TITUS	50F	EGGCRATE EXHAUST GRILLE, 24X24	25	1,3,4		
EG-2	CEILING	RETURN GRILLE	TITUS	50F	EGGCRATE RETURN GRILLE, 24X12	25	1,3,4		
RG-1	CEILING	RETURN GRILLE	TITUS	50F	EGGCRATE RETURN GRILLE, 24X24	25	1,3,4		
RG-2	CEILING	RETURN GRILLE	TITUS	50F	EGGCRATE RETURN GRILLE, 24X12	25	1,3,4		

	HVAC	CLOA	ND SU	JMMA	ARY	
		COOLIN	G (MBH)		HEATING	(MBH)
AREA	CALCU	JLATED	PRO\	/IDED	CALCULATED	PROVIDED
	TOTAL	SENS	TOTAL	SENS	CALCULATED	PROVIDED
RTU-1	30	23.7	30	30	15	35
RTU-2	30	23.7	30	30	15	35

1. SEE MECHANICAL FLOOR PLANS FOR DUCT SIZE AND CFM

4. STEEL, WHITE, CORE ONLY IN ACT, 1/2"X1/2"X1/2" GRID

3. BORDER TO MATCH CEILING TYPE

2. STEEL, WHITE, ROUND NECK, SEE MECHANICAL FLOOR PLANS FOR NECK SIZE

30 23.7 30 30 15 35 47 44 47.3 45.4 17 57 SÄZÄN

Tel 480.530.9101 Fax 480.530.9130

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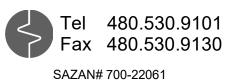
GROUP 311 E. Veterans Way, Ste. 102 Tempe, AZ 85281

1/4" = 1'-0"



SHEET NOTES

311 E. Veterans Way, Ste. 102 Tempe, AZ 85281



Catholic Charities Westside Head Start - Tolleson

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MECHANICAL HVAC - PLAN

M3.01

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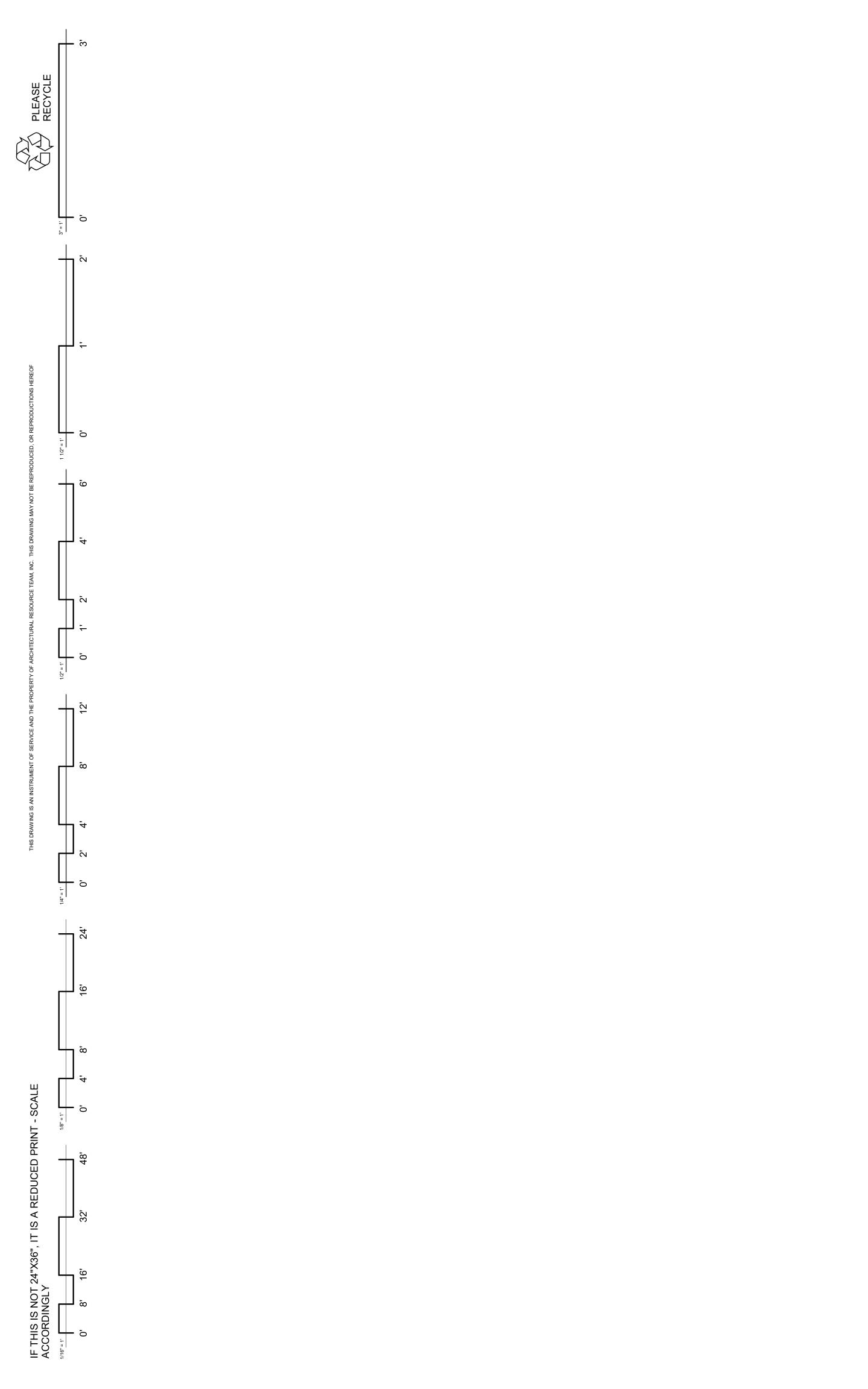
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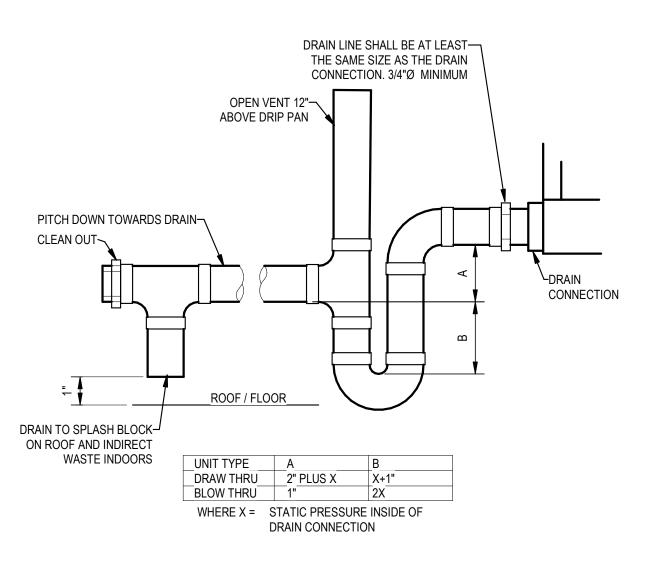
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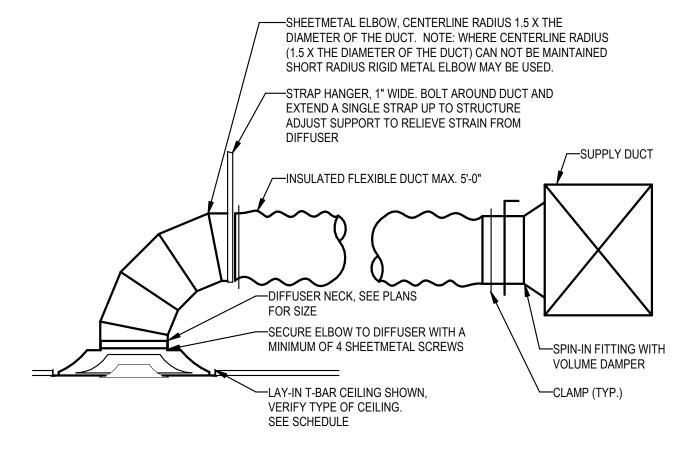
> > SAZAN# 700-22061

MECHANICAL -ROOF PLAN

M3.11



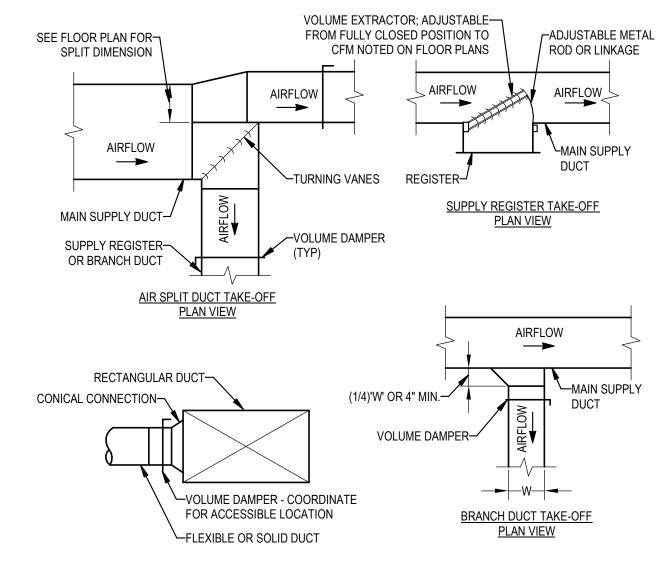




TYPICAL AC CONDENSATE DRAIN DETAIL

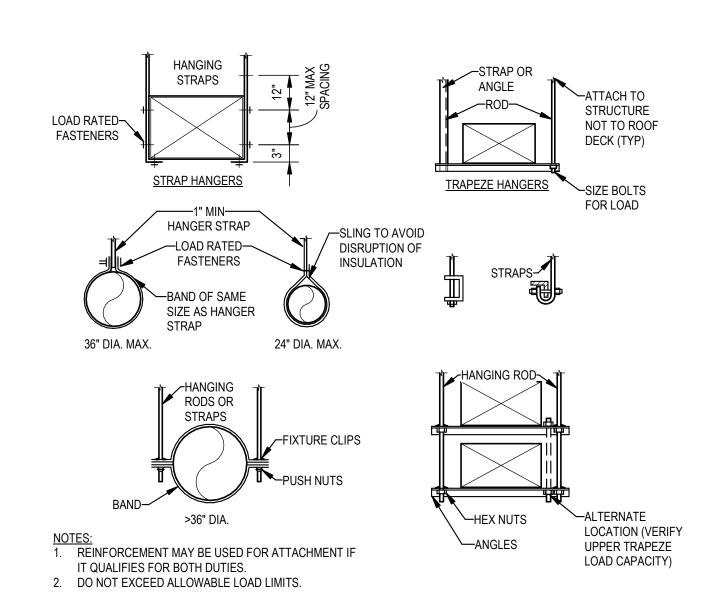
NTS





SUPPLY DUCTWORK TAKE-OFFS DETAIL

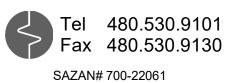
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DUCT SUPPORT / HANGING DETAIL

NTS





CONSTRUCTION DOCUMENTS

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22025

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DATE



MECHANICAL DETAILS

M7.00

MECHANICAL SPECIFICATIONS

NOTE: NOT ALL SPECIFICATIONS MAY APPLY.

1. THE WORK INCLUDED UNDER THIS SECTION CONSISTS OF FURNISHING ALL MATERIALS, EQUIPMENT AND LABOR, AND THE PERFORMING OF ALL FUNCTIONS, EXCEPT AS OTHERWISE SPECIFIED HEREIN OR SHOWN ON THE DRAWINGS TO BE PERFORMED BY OTHERS, FOR THE INSTALLATION OF ALL HEATING AND COOLING EQUIPMENT, PIPING AND ALL DUCTWORK, GRILLES, REGISTERS, ETC., INCLUDING ALL CONNECTIONS TO EACH SYSTEM AS SPECIFIED HEREIN AND SHOWN ON THE DRAWINGS. IT SHALL FURTHER INCLUDE FURNISHING AND INSTALLING ALL MISCELLANEOUS ITEMS REQUIRED FOR THE OPERATION OF THE SYSTEM, WHETHER SPECIFICALLY CALLED OUT OR

1. ALL CONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATING WORK WITH OTHER TRADES AFFECTED BY EACH OTHERS WORK. 2. NO STRUCTURAL MEMBER SHALL BE CUT WITHOUT PERMISSION FROM THE ARCHITECT AND THE ENGINEER.

1. ALL MATERIALS, EQUIPMENT AND INSTALLATION MUST COMPLY WITH ALL APPLICABLE LAWS, CODES, RULES AND REGULATIONS, REQUIRED BY CITY, COUNTY AND STATE, AS WELL AS FEDERAL REQUIREMENTS.

2. PERMITS: OBTAIN AND PAY FOR ALL REQUIRED PERMITS, LICENSES AND FEES. 3. INSPECTIONS: FURNISH OWNER WITH CERTIFICATE OF INSPECTION AND APPROVAL BY LOCAL AUTHORITIES PRIOR TO FINAL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL WORK MUST BE INSPECTED.

1. CONTRACTOR SHALL CLEAN AND INSPECT ALL EXISTING EQUIPMENT PRIOR TO COMMENCING WORK. NOTIFY BUILDING OWNER OF ANY NONFUNCTIONAL EQUIPMENT IMMEDIATELY 2. CONTRACTOR SHALL INSURE THAT ALL EXISTING MECHANICAL EQUIPMENT IS IN SATISFACTORY WORKING CONDITION SO PROVISIONS

MAY BE MADE IN CONTRACTORS BID TO ACCOMMODATE ANY REPLACEMENTS REQUIRED. 3. VERIFY EXACT SIZE, LOCATION, ROUTING, ETC., OF ALL EXISTING MECHANICAL EQUIPMENT, DUCTWORK, AIR DEVICES, THERMOSTATS, SENSORS, PIPING, ETC., WHICH ARE TO BE REMOVED, REPLACED,

DRAWINGS. 4. THE GENERAL CONTRACTOR SHALL BRING ALL SURFACES (FLOORS, WALLS, AND CEILINGS) BACK TO ORIGINAL CONDITION AFTER ANY MODIFICATIONS HAVE BEEN MADE.

ABANDONED, REWORKED, ETC., AS REQUIRED AND SHOWN ON

1. ALL PRODUCTS SHALL BE NEW AND UNUSED OF ESTABLISHED AND REPUTABLE AMERICAN MANUFACTURERS. ITEMS OF EQUIPMENT USED FOR THE SAME PURPOSE SHALL BE OF THE SAME MANUFACTURER. 2. SYSTEMS SHALL BE COMPLETE AND OPERABLE. ANY ACCESSORIES REQUIRED FOR THE OPERATION OF THE SYSTEM SHALL BE INCLUDED AS THROUGH SPECIFICALLY INDICATED TO BE PROVIDED. SUCH ACCESSORIES WOULD INCLUDE FILTERS, CONDENSATE DRAINS, RELIEF VALVES, SERVICE VALVES, THERMOSTATS, VIBRATION ISOLATORS, ETC. MOTOR STARTERS FOR PREWIRED EQUIPMENT (AND OTHER PROTECTION AND CONTROL DEVICES) ARE ALSO INCLUDED IN THIS SPECIFICATION.

3. SPECIFIC REFERENCE TO A MANUFACTURER'S PRODUCT IS ONLY TO ESTABLISH TYPE, QUALITY, AND PERFORMANCE REQUIRED. THESE QUALIFICATIONS ARE IN ADDITION TO THE REQUIREMENTS SHOWN ON THE DRAWINGS AND HEREIN THESE SPECIFICATIONS. LISTING OF ALTERNATE EQUIPMENT MANUFACTURERS SHALL NOT BE CONSTRUED AS AN UNCONDITIONAL APPROVAL OF THE PRODUCTS OF THOSE MANUFACTURERS.

4. PROVIDE CLEARANCES AS PER MANUFACTURERS RECOMMENDATIONS.

1. SUBSTITUTIONS OF MATERIALS OR PRODUCTS SHOWN HEREIN SHALL BE AT THE OWNER'S, ARCHITECTS, OR ENGINEER'S WRITTEN APPROVAL ONLY WITH COPIES OF APPROVAL SENT TO THE PROJECT FILE. ANY DEVIATION FROM THESE DRAWINGS WILL NOT BE ALLOWED THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ANY SUBSTITUTIONS AND COSTS OF CHANGES INCURRED BY OTHER TRADES DUE TO THE SUBSTITUTIONS. OTHER TRADES INCLUDE: ELECTRICAL, PLUMBING, STRUCTURAL, ROOFING, OR ANY TRADE EFFECTED BY THE SUBSTITUTION.

<u>DUCTWORK</u>

1. ALL DUCTWORK AND PLENUMS SHALL BE GALVANIZED SHEET METAL. FABRICATE AND INSTALL ALL DUCTWORK IN STRICT CONFORMANCE WITH THE LATEST SMACNA MANUAL, AND APPLICABLE MECHANICAL CODES FOR LOW VELOCITY DUCT CONSTRUCTION STANDARDS.

2. EACH DUCT SYSTEM SHALL BE COMPLETE WITH ALL REQUIRED DUCTWORK FITTINGS, TURNING VANES, SPLITTER DAMPERS AND SUPPORTS, AND EXTRACTORS AT ALL RIGHT ANGLE TAKEOFFS AND

3. DUCTWORK SHALL BE GALVANIZED, PRIME-GRADE, LOCK-FORMING QUALITY STEEL (LFQ) HAVING A GALVANIZED COATING OF 1-3/4

OUNCES TO TOTAL FOR BOTH SIDES OF ONE SQUARE FOOT OF A

4. CROSSBREAK ALL SIDES OF ALL DUCTS. DUCTWORK SHALL BE INSTALLED WITH NO OBJECTIONABLE NOISE, AND CONTRACTOR SHALL PROVIDE ANY ADDITIONAL STIFFENERS REQUIRED. 5. ALL LONGITUDINAL SEAMS SHALL BE PITTSBURGH LOCK SEAM, HAMMERED FLAT, WITH ALL TRANSVERSE JOINTS TAPED WITH 8 0Z. CANVAS AND SEALED WITH ARABOL, AIR TIGHT. DUCT TAPE IS NOT

ALLOWED. 6. PROVIDE DOUBLE THICKNESS, FACTORY FABRICATED GALVANIZED SHEET STEEL TURNING VANES WITH AIRFOIL CONTOUR IN ALL RIGHT ANGLE ELBOWS, TEES, AND ELBOWS WITH RADIUS LESS THAN 1-1/2

TIMES THE WIDTH OF THE DUCT. 7. ALL ROUND DUCT BRANCH TAKEOFFS SHALL BE PROVIDED WITH SPIN-IN WITH AIRSCOOP AND BALANCING DAMPER. 8. DUCT SIZES SHOWN ON THE DRAWINGS ARE TO THE INSIDE OF

ACOUSTICAL LININGS. INCREASE SIZES OF DUCTS AS REQUIRED TO ACCOMMODATE ACOUSTICAL INSULATION. 9. DUCTWORK SHALL CONFORM TO DIMENSIONS ON THE DRAWINGS, UNLESS LOCATION OF STRUCTURAL MEMBERS PROHIBITED. IN CASE OF CHANGE IN DIMENSIONS, CROSS SECTIONAL AREAS SHALL BE

MAINTAINED. 10. ALL DUCTS SHALL BE SUBSTANTIALLY SUPPORTED WITH HANGERS TO THE STRUCTURE OR OTHERWISE DEPENDING ON LOCATION CONDITIONS, PLACING SUPPORTS NOT OVER 8 FEET APART ALONG THE LENGTH OF THE DUCT. HANGERS SHALL CONFORM TO ALL APPLICABLE MECHANICAL CODES AND SMACNA REQUIREMENTS. 11. FLEXIBLE ROUND DUCTS TO OUTLETS SHALL BE THERMALFLEX

TYPE MKE, A MAXIMUM LENGTH OF 5'-0" LONG (AND ALLOWED ONLY WHERE INDICATED ON THE DRAWINGS). 12. ALL FACTORY-MADE DUCTS MUST BE CLASS 0 OR 1 AS APPROVED BY THE LOCAL APPLICABLE MECHANICAL CODE.

13. ALL MATERIALS EXPOSED WITHIN DUCTS OR PLENUMS SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25, AND A SMOKE-DEVELOPED RATING OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH THE TEST FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS.

THERMAL INSULATION

GENERAL: ALL SUPPLY AND RETURN DUCT OTHER THAN WITHIN A RETURN AIR PLENUM SHALL BE INSULATED. SUPPLY AND RETURN DUCT LOCATED WITHIN A RETURN AIR PLENUM SHALL BE FULLY LINED. 1. ALL INSULATION, MATERIAL, COVERINGS, ADHESIVE, VAPOR-BARRIERS AND TAPES SHALL CONFORM TO NFPA 90A, FLAME SPREAD CLASSIFICATION NOT TO EXCEED 25 AND SMOKE DEVELOPMENT, NOT TO EXCEED 50.

2. ALL RECTANGULAR DUCTS AND ROUND DUCTS SHALL BE INSULATED WITH 2" THICK .75 LB. DENSITY FIBERGLASS BLANKET WITH FRK (FOIL REINFORCED KRAFT) VAPOR BARRIER FACING. INSULATION SHALL HAVE A CONDUCTIVITY NOT TO EXCEED 0.27 BTU PER INCH PER SQUARE FOOT PER DEGREE FAHRENHEIT PER HOUR AT 75 DEGREE FAHRENHEIT MEAN TEMPERATURE.

3. INSULATION SHALL BE WRAPPED TIGHTLY ON THE DUCTWORK WITH ALL CIRCUMFERENTIAL JOINTS BUTTED AND LONGITUDINAL JOINTS OVERLAPPED A MINIMUM OF 2". ADHERE INSULATION TO METAL ON THE BOTTOM OF RECTANGULAR DUCTWORK OVER 24" WIDE WITH 4" STRIP OF INSULATION BONDING ADHESIVE, BENJAMIN FOSTER 85-15, OR EQUAL, AND ADDITIONALLY SECURE INSULATION WITH MECHANICAL FASTENERS AT NOT MORE THAN 18" O/C. ON ALL JOINTS, THE 2" FLANGE OF THE FACING OR THE 2" OVERLAP SHALL BE SECURED USING 9/16" FLARE-DOOR STAPLES APPLIED 6" O/C AND TAPED WITH MINIMUM 3" WIDE FOIL REINFORCED KRAFT TAPE. ALL PIN PENETRATIONS OR PUNCTURES IN FACING SHALL ALSO BE TAPED. VERTICAL DUCTS SHALL HAVE INSULATION ADEQUATELY SECURED TO PREVENT

SLIPPING. 4. EXHAUST DUCTS SHALL NOT BE INSULATED. 5. OUTDOOR DUCTWORK SHALL BE INSULATED INTERNALLY WITH 2" DUCTLINER. INSTALL PER MANUFACTURERS INSTRUCTIONS. ALL OUTDOOR DUCTWORK JOINTS SHALL BE SEALED WITH SILICONE SEALANT AND MADE COMPLETELY WEATHERTIGHT AND LEAK PROOF.

<u>GRILLES, REGISTERS AND DIFFUSERS</u>

1. FURNISH AND INSTALL ALL GRILLES, REGISTERS, CEILING DIFFUSERS AND DOOR GRILLES WHERE INDICATED. THEY SHALL BE OF SIZE AND MODEL CALLED FOR ON THE DRAWINGS. 2. ALL GRILLES, REGISTERS, AND CEILING DIFFUSERS MUST BE SET FLUSH AND TRUE TO WALL OR CEILING TO PREVENT AIR LEAKAGE AROUND EDGES. ALL UNITS SHALL BE PROVIDED WITH NEOPRENE

GASKETING AROUND THE INSIDE OF THE FRAME. 3. ALL UNITS SHALL BE FACTORY FINISHED, OF COLOR SELECTED BY THE ARCHITECT, OR AS OTHERWISE INDICATED. 4. PAINT ALL DUCTWORK, TURNING VANES, INSULATION, ETC. THAT IS VISIBLE THROUGH GRILLES, REGISTERS, OR CEILING DIFFUSERS FLAT BLACK.

1. AN INDEPENDENT AABC OR NEBB CERTIFIED CONTRACTOR SHALL BALANCE AIR DISTRIBUTION TO VALUES LISTED ON DRAWINGS. A FINAL COPY OF THE TEST AND BALANCE REPORT SHALL BE PROVIDED TO THE ENGINEER UPON COMPLETION OF THE REPORT. A PROJECT SHALL NOT BE CONSIDERED IN COMPLIANCE WITH THE PLANS AND SPECIFICATIONS UNTIL SUCH A REPORT HAS BEEN PROVIDED TO THE

2. BEFORE ACCEPTANCE AND FINAL PAYMENT, IT SHALL BE DEMONSTRATED THAT ALL APPARATUS IS FUNCTIONING PROPERLY AND EFFICIENTLY. THE CONTRACTOR SHALL MAKE A THOROUGH TEST OF EACH SUPPLY, RETURN, AND EXHAUST SYSTEMS TO ASSURE THAT EACH DIFFUSER AND REGISTER HAS THE PROPER QUANTITY OF AIR IN ACCORDANCE WITH AABC OR NEBB. 3. THE TEST AND BALANCE CONTRACTOR HAS THE RIGHT TO

COMMUNICATE ANY INFORMATION TO THE MECHANICAL ENGINEER. 1. THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS, EQUIPMENT AND WORKMANSHIP FROM DEFECT OF WORKMANSHIP, AND SHALL REPLACE OR REPAIR WITHOUT ADDITIONAL COST TO THE OWNER ALL

DEFECTIVE MATERIAL AND WORKMANSHIP, FOR A PERIOD OF (1) YEAR

 \sim AIR BALANCE REPORT AIR BALANCE REPORT SHALL BE SUBMITTED TO THE BUILDING INSPECTOR.

SÄZÄN

GROUP

311 E. Veterans Way, Ste. 102

Tempe, AZ 85281

Tel 480.530.9101 Fax 480.530.9130

SAZAN# 700-22061

AFTER COMPLETION AND ACCEPTANCE.

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CONSTRUCTION **DOCUMENTS**

Revision Schedule No. Date Description 1 08.02.2023 CITY COMMENTS

ART PROJECT NO. 22025 04.21.2023



MECHANICAL SHEET **SPECIFICATION**

GENERAL NOTES

- 1. THE SCOPE OF THE PLUMBING WORK CONSISTS OF WORK SHOWN ON THE PLANS AND AS DESCRIBED IN THE SPECIFICATIONS. IN CASE OF CONFLICT, THE SPECIFICATIONS SHALL GOVERN. PROVIDE A COMPLETE & FUNCTIONAL SYSTEM.
- 2. PERFORM ALL WORK IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES. OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND PAY FOR ALL FEES REQUIRED BY AUTHORITIES HAVING JURISDICTION. PAY ALL ROYALTIES OR FEES REQUIRED IN CONNECTION WITH THE USE OF PATENTED DEVICES AND SYSTEMS.
- 3. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR GENERAL CONSTRUCTION INCLUDING LOUVERS, CONCRETE EQUIPMENT PADS, FLASHING DETAILS, ETC. REFER TO ARCHITECTURAL DRAWINGS FOR ROOM ELEVATIONS, LOCATE DEVICES SO THAT THEY DO NOT CONFLICT WITH GENERAL CONSTRUCTION (WAINSCOT, DOOR HARDWARE, ETC.) NOR WITH ELECTRICAL SYSTEM (LIGHT SWITCHES, SPEAKERS, OUTLETS, ETC.).
- 4. COORDINATE WITH OTHER TRADES:
- A. REFER TO ELECTRICAL DRAWINGS AND CONFIRM ELECTRICAL CHARACTERISTICS SHOWN FOR PLUMBING EQUIPMENT (VOLTAGE, PHASE, HZ, ETC). MATCHES THAT OF THE PLUMBING EQUIPMENT PROVIDED. B. PROVIDE ADEQUATE CLEARANCE OF PLUMBING WORK FROM ELECTRICAL EQUIPMENT. MAINTAIN MINIMUM ACCESS OF 6-INCHES ABOVE CABLE TRAYS AND 18-INCHES TO THE SIDE OF CABLE TRAYS. CLEARANCE ABOVE CABLE TRAY SHOULD BE 1/2 THE WIDTH AND NOT LESS THAN 6-INCHES WHEN RUNNING PARALLEL WITH CABLE TRAY. AND NOT LESS THAN 6-INCHES WHEN RUNNING PERPENDICULAR TO THE CABLE TRAY.
- 5. ARRANGE EQUIPMENT SO THAT ACCESS CLEARANCES INDICATED BY DRAWINGS, REQUIRED BY CODES, OR RECOMMENDED BY MANUFACTURER ARE PROVIDED.
- 6. INSTALL MATERIALS AND SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND ACCEPTED SUBMITTALS. INSTALL MATERIAL IN PROPER RELATION TO ADJACENT CONSTRUCTION AND WITH UNIFORM
- 7. THOROUGHLY EXAMINE ALL AREAS WHERE EQUIPMENT AND PIPING WILL BE INSTALLED AND REPORT ANY CONDITION THAT PREVENTS THE PROPER INSTALLATION OF THE PLUMBING WORK.
- 8. PROVIDE A SINGLE SUBMITTAL OF ALL PLUMBING EQUIPMENT AS SPECIFIED. AS A MINIMUM, SUBMIT PRODUCT DATA FOR ALL EQUIPMENT AND FIXTURES LISTED IN ACCOMPANYING SCHEDULES FOR APPROVAL.
- 9. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 10. ARRANGEMENT OF SYSTEMS INDICATED ON THE DRAWINGS IS DIAGRAMMATIC, AND INDICATES THE MINIMUM REQUIREMENTS FOR PLUMBING WORK. TAKE FIELD MEASUREMENTS BEFORE PREPARING SHOP DRAWINGS, OBTAIN APPROVAL OF SHOP DRAWINGS BEFORE BEGINNING FABRICATION. BE RESPONSIBLE FOR ACCURACY OF DIMENSIONS AND LAYOUT. OVERHEAD PIPING SHALL BE ARRANGED TO OBTAIN MAXIMUM HEAD ROOM.
- 11. CLEAN AND PROTECT WORK FROM DAMAGE. RESTORE DAMAGED FINISHES. COVER ENDS OF PIPING NOT ACTIVELY BEING WORKED ON.
- 12. MODIFY AND EXTEND EXISTING SERVICE TO ACCOMMODATE NEW WORK. RELOCATE EXISTING COMPONENTS AS REQUIRED FOR NEW SYSTEM. COORDINATE WITH BUILDING MANAGEMENT.
- 13. PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS, WHICH HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR THREE YEARS. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 14. DO NOT CUT STRUCTURAL ELEMENTS WITHOUT PRIOR WRITTEN APPROVAL.
- 15. CONCEAL PIPING TO THE GREATEST EXTENT POSSIBLE.
- 16. INSTRUCT OWNER IN PROPER OPERATION OF SYSTEMS.
- 17. DRAWINGS DO NOT SHOW ALL OFFSETS WHICH MAY BE REQUIRED. MAKE OFFSETS WITH FITTINGS USING THE LEAST ANGLE OF OFFSET POSSIBLE. PIPING SHALL BE ROUTED TO AVOID ALL STRUCTURAL SUPPORTS, AND COORDINATED WITH WORK OF OTHER TRADES.
- 18. MATERIALS, METHODS, AND INSTALLATION SHALL COMPLY WITH THE PROVISIONS OF THE LATEST EDITION OF THE FOLLOWING CODES AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION (TOLLESON).
- 2018 INTERNATIONAL BUILDING CODE (IBC)
- 2018 INTERNATIONAL MECHANICAL CODE (IMC) 2018 INTERNATIONAL PLUMBING CODE (IPC)
- 2018 INTERNATIONAL FIRE CODE (IFC)
- 2018 INTERNATIONAL FUEL GAS CODE (IFGC)

PIPING NOTES

- 1. SANITARY, WASTE, AND VENT PIPING SHALL BE ABS, PVC, NO-HUB CAST IRON OR DWV COPPER.
- 2. HOT AND COLD WATER PIPING SHALL BE HARD DRAWN COPPER TUBING: TYPE L, ASSEMBLED WITH WROT COPPER FITTINGS AND LEAD-AND ANTIMONY-FREE SOLDER.

3. INSULATE ALL HOT AND COLD WATER PIPING WITH GLASS FIBER INSULATION WITH ALL SERVICE JACKET. USE

- HEAT BONDING TAPE TO CLOSE INSULATION; STAPLES AND PRESSURE TAPE ARE PROHIBITED.
- 4. PROVIDE ALL REQUIRED ACCESSORIES INCLUDING SHUT-OFFS AND CLEAN-OUTS. PROVIDE COMPONENTS WHICH PREVENT BACK-SIPHONAGE OR CROSS-CONNECTIONS. PROVIDE ISOLATION DEVICES TO REDUCE SOUND TRANSMISSION.
- 5. PROVIDE STOPS FOR EACH WATER CONNECTION TO EACH FIXTURE OR ITEM OF EQUIPMENT.
- 6. DISINFECT WATER DISTRIBUTION SYSTEM. FLUSH AND TEST ALL SYSTEMS FOR PROPER OPERATION. ADJUST
- 7. REFER TO PIPING DIAGRAMS AND DETAILS FOR REQUIRED FITTINGS, VALVES, ETC. FLOOR PLANS AND SECTIONS INDICATE EQUIPMENT LOCATIONS AND GENERAL PIPE ROUTING ONLY.
- 8. REFER TO CIVIL DRAWINGS FOR UTILITY WORK 5'-0" BEYOND THE BUILDING LINE.

ABBREVIATION

HOT WATER

HEAT EXCHANGE HAND-OFF-AUTOMATIC

HOT WATER PUMP

HORSEPOWER, HEAT PUMP

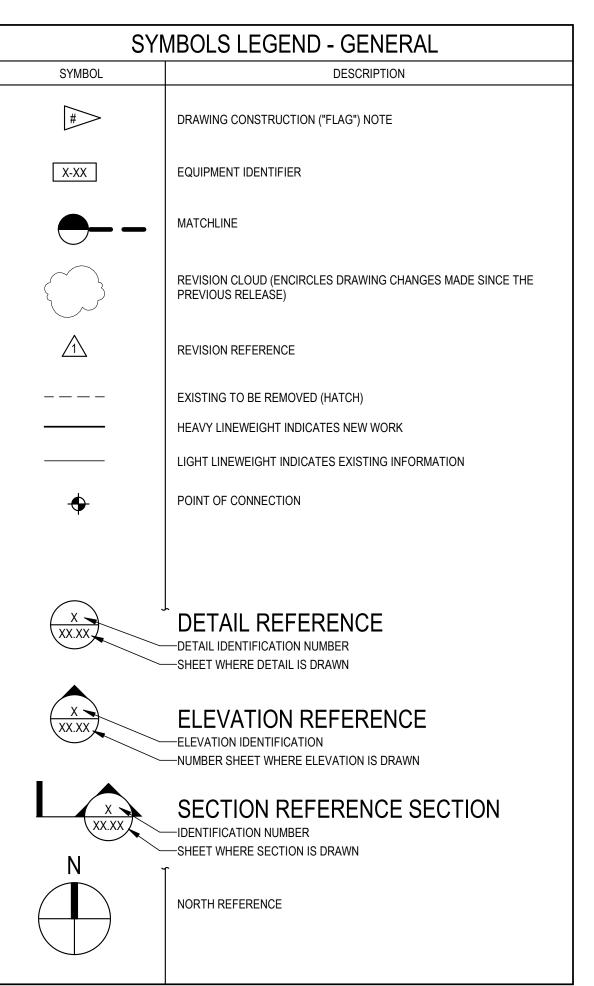
HOT WATER CIRCULATING

<u>ABBI</u>	REVIATIONS		
A AFF	AIR ABOVE FINISHED FLOOR	ID IE	INDIRECT DRAIN INVERT ELEVATION
ARRGT ATM	ARRANGEMENT ATMOSPHERE	IN INIT INT	INCH INITIAL INTERIOR
BFF BFP	BELOW FINISHED FLOOR BACKFLOW PREVENTER	KW	KILOWATT
BHP BLDG	BRAKE HORSEPOWER BUILDING	KWH	KILOWATT HOURS
BOB BOS	BOTTOM OF BEAM BOTTOM OF STEEL	L LB	LENGTH POUND, LINEAR BAR
BTUH	BRITISH THERMAL UNITS PER HOUR	LBS LWT	POUNDS LEAVING WATER TEMPERATURE
CAP CFM	CAPACITY CUBIC FEET PER MINUTE	MAX	MAXIMUM
CI CLG	CAST IRON CEILING, COOLING	MBH MCA	THOUSAND BTU PER HOUR MINIMUM CIRCUIT AMPACITY
CNTFGL	CENTRIFUGAL	MECH	MECHANICAL
CO	CLEANOUT	MFR	
CONC COND	CONCRETE CONDENSATE	MIN MTR	MINIMUM MOTOR
CONT	CONTINUE, CONTROL		e.rerk
COMP	COMPRESSOR	NC	NORMALLY CLOSED
CP CTG	CIRCULATING PUMP CLEANOUT TO GRADE	NEG NIC	NEGATIVE NOT IN CONTRACT
CU FT	CUBIC FEET	NO	NUMBER, NORMALLY OPEN
CV	CONSTANT VOLUME	NTS	OT TO SCALE
CW	COLD WATER	ОС	ON CENTER
dB	DECIBELS	OD	OUTSIDE DIAMETER
DCVA	DOUBLE CHECK VALVE ASSEMBLY	OPNG	
DEG DF	DEGREE DRINKING FOUNTAIN	ORD ORL	OVERFLOW ROOF DRAIN OVERFLOW RAIN LEADER
DI	DE-IONIZED	ONL	OVERT EOW TAIN LEADER
DIA	DIAMETER	Р	PUMP, PLUMBING
DN DS	DOWN DOWNSPOUT	PH POC	PHASE POINT OF CONNECTION
БО	DOWNER OUT	POS	POSITIVE
E	EXISTING	P/T	PRESSURE/TEMPERATURE
EER EFF	ENERGY EFFICIENCY RATING EFFICIENCY	PVC	POLYVINYL CHLORIDE
EL	ELEVATION	QTY	QUANTITY
EQUIP	EQUIPMENT	DD	DOOF DRAIN
ESP EWT	EXTERNAL STATIC PRESSURE ENTERING WATER TEMPERATURE	RD REF	ROOF DRAIN REFERENCE
EXH	EXHAUST	REQD	REQUIRED
EWC	ELECTRIC WATER COOLER	RL	RAIN LEADER
EXIST EXP	EXISTING EXPANSION	RPBFP	REDUCED PRESSURE BACKFLOW PREVENTER
EXT	EXTERIOR, EXTERNAL	RPM	REVOLUTIONS PER MINUTE
F	FAHRENHEIT, FIRE LINE	S	SOIL
FD FDC	FIRE DAMPER, FLOOR DRAIN	SD	STORM DRAIN, SMOKE DAMPER
FLA	FIRE DEPARTMENT CONNECTION FULL LOAD AMPS	SPR SS	SPRINKLER STAINLESS STEEL, SANITARY SEWER
FLR	FLOOR	STP	STANDPIPE
FLTR	FILTER	TEMP	TEMPERATURE
FM FPM	FLOW METER FEET PER MINUTE	TEMP TOT	TEMPERATURE TOTAL
FPS	FEET PER SECOND	TP	TRAP PRIMER, TOTAL PRESSURE
FT	FEET FACE VELOCITY	TYP	TYPICAL
FV GA	FACE VELOCITY GAGE	UON	UNLESS OTHERWISE NOTED
GA GAL	GALLONS	V	VENT, VOLT
GALV	GALVANIZED	VA	VALVE
GPM	GALLONS PER MINUTE	VEL	VELOCITY
НВ	HOSE BIBB	VFD VTR	VARIABLE FREQUENCY DRIVE VENT THROUGH ROOF
HD	HEAD		

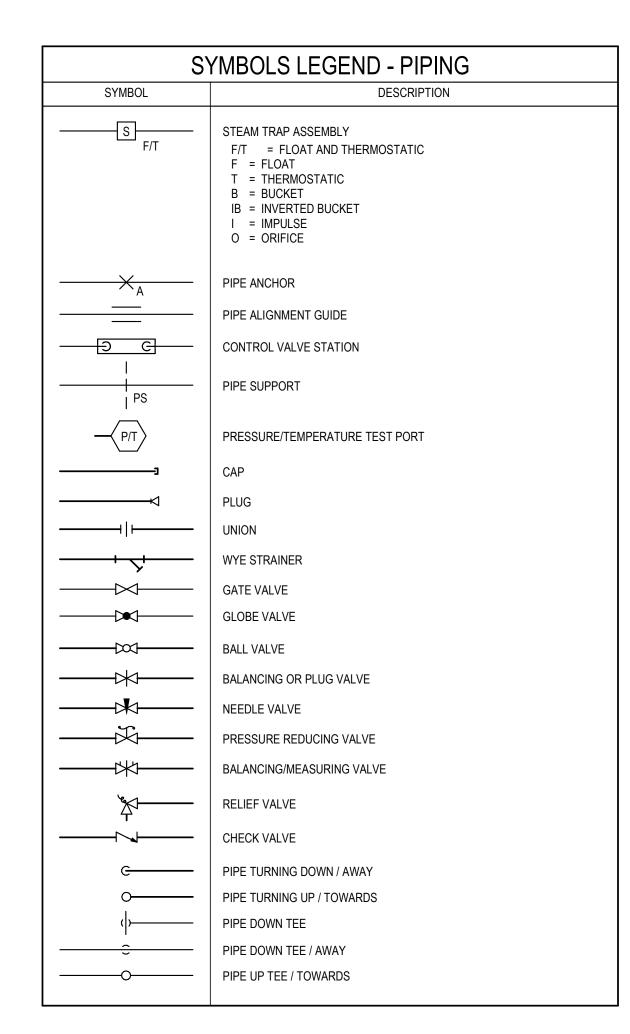
WASTE, WATER, WATT, WIDTH

WATER HEATER, WALL HYDRANT

WATER GAGE



S	YMBOLS LEGEND - PIPING
SYMBOL	DESCRIPTION
	SOIL OR WASTE
	VENT
	RAIN LEADER
	OVERFLOW RAIN LEADER
ID	INDIRECT DRAIN
	COLD WATER
	HOT WATER
	HOT WATER CIRCULATING
140° HW	140° POTABLE HOT WATER
120° HW	120° POTABLE HOT WATER
F ——	FIRE
SPR	SPRINKLER
STP	STANDPIPE
——— HPS ———	HIGH PRESSURE STEAM
——— HWS———	HEATING WATER SUPPLY
	HEATING WATER RETURN
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
│	REDUCER, CONCENTRIC
	WYE STRAINER WITH CAPPED HOSE AND BLOWDOWN VALVE
As,	
4	ANGLE VALVE
4	ANGLE VALVE
	AUTOMATIC CONTROL VALVE - TWO WAY (PNEUMATIC OPERATOR SHOWN)
	AUTOMATIC CONTROL VALVE - THREE WAY (ELECTRIC OPERATOR SHOWN)
—— × ——	BUTTERFLY VALVE
	FLEXIBLE CONNECTION IN PIPING
MAV AAV	MANUAL AIR VENT (MAV), AUTOMATIC AIR VENT (AAV)
— <u>Y</u>	PRESSURE GAUGE
—— <u> </u>	THERMOMETER
	THERMOMETER WELL
—— <u> </u>	SIGHT GLASS
	HOSE BIB



SYMBOL	DESCRIPTION	 -
	PIPING OR DUCTED AIRFLOW	
- — — — -	NON-DUCTED AIRFLOW	
	ELECTRICAL CONNECTION	
\rightarrow	FLOW CONTINUATION ARROW	
	COMPLEX INTERLOCK (ELEC., PNEUMATIC, ETC.)	
	CONNECTION TO CENTRAL MONITORING AND CONTROL SYSTEM (CMCS)	
$ \bigcirc$	— PUMP	
— —	CENTRIFUGAL FAN	
M	ELECTRIC MOTOR/STARTER ASSEMBLY	
M	ELECTRIC MOTOR OPERATOR (VALVES AND DAMPERS)	PLUMBING SHEET INDEX
0	FLOOR DRAIN	P0.00 GENERAL NOTES, ABBREVIATIONS AND SHEET P2.00 PLUMBING SCHEDULES
©	FUNNEL DRAIN	P3.01 PLUMBING WASTE & VENT - PLAN P4.01 PLUMBING DOMESTIC WATER - PLAN
Ø	FLOOR SINK (SQUARE AND ROUND)	P7.00 PLUMBING DETAILS P9.00 PLUMBING SHEET SPECIFICATION
-	FLOW DIRECTION	
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N VALVE		
C OPERATOR		
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CONSTRUCTION

Revision Schedule

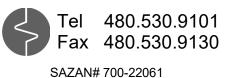
No. Date Description

DOCUMENTS

ART PROJECT NO. 22025 04.21.2023



SÄZÄN GROUP 311 E. Veterans Way, Ste. 102 Tempe, AZ 85281



GENERAL NOTES, **ABBREVIATIONS** AND SHEET INDEX

	WATER C	CALCU	ILATIC	NS	
	Project Name: CATHOLIC CHA Location: 2504 S 91ST AV				
}	~~~~~~~	\sim			
6	EXISTING METER = 2"	3			
$\boldsymbol{\zeta}$	SERVICE LINE and RPBP = 1-1/2"	3			
1		می			
	Static Pressure in Main=			60.0	PSI
	Minimum Operating Pressure=			20.0	PSI
	Pressure Drop Through Meter=			10.0	PSI
	Pressure Drop Through BFP=			10.0	PSI
	Pressure Drop due to Elevation=	:		2.6	PSI
	Allowable Friction Pressure Drop)=		42.6	PSI
		•			
	Distance to Last Fixture=			225.0	FT
	Allowance for Fittings=			22.5	FT
	Equivalent Length=			247.5	FT
	Capacities				
	Total WSFUs=			99.0	WSFU
	GPM at WSFUs=			43.5	GPM
	Total GPM=			43.5	GPM
	Total DFUs=			105	DFU
	Available Friction Loss per 100'=			7.0	PSI
	Pipe sizing and fixture Calculation		·	2), Fig. 1003	.3(3)
	PIPE SIZE	FU TANK	FU VALVE	GPM	
	1/2"=	-	-	2.8	
	3/4"=	3	-	7.9	
	1"=	13	-	16.5	
	1-1/4"=	48	11	28	
	1-1/2"=	97	32	42.5	
	2"=	230	108	72	
	2-1/2"=	533	430	130	
	3"=	900	900	185	
	4"=	1600	1600	280	

						PLUMBING FIXTURE SCHEDULE
MARK	DESCRIPTION	ROUGH W	-IN CON	NECTIO CW	N IN HW	REMARKS
3COM	3 COMPARTMENT SINK	2	1-1/2"	1/2		ADVANCE TABCO FC-3-1818-18RL 3 COMPARTMENT STAINLESS STEEL SINK, TIG WELDED CONSTRUCTION, 16 GAUGE 304 STAINLESS STEEL.
EWC-1	SINGLE ELECTRIC WATER COOLER , INDOOR	1-1/4	1-1/4	3/8		ELKAY MODEL #EZS8S, WALL MOUNT ADA NON-FILTERED 8 GPH STAINLESS WATER COOLER. PUSHBAR ACTIVATION. WALL MOUNT FOR INDOOR APPLICATIONS. 5 FLA, 115V/60HZ.
EWC-2	SINGLE ELECTRIC WATER COOLER, OUTDOOR	1-1/4	1-1/4	3/8		ELKAY MODEL VRC8S, WALL MOUNT VANDAL RESISTANT ADA COOLER, NON-FILTERED, 8 GPH CHILLING CAPACITY, INDOOR/OUTDOOR APPLICATIONS. 5 FLA, 115V/60HZ.
FD-1	FLOOR DRAIN	3	1-1/2			ZURN MODEL #Z415B, CAST IRON BODY, 5" DIAMETER ADJUSTABLE NICKEL BRONZE STRAINER. PROVIDE WITH 1/2" TRAP PRIMER CONNECTION.
FS-1	FLOOR SINK	3	2		-	ZURN MODEL #Z1900, 12"X12" SANI-FLOR RECEPTOR WITH 6" SUMP DEPTH, CAST IRON CONSTRUCTION, LIGHT-DUTY HALF GRATE WITH 1/2 SLOTTED OPENINGS
GT-1	GREASE INTERCEPTOR	3 	2	 	~~ -	SCHIER MODEL GB2 HYDROMECHANICAL GREASE INERCEPTOR. RATED FOR 50 GPM, 131 LBS GREASE CAPACITY. POLYETHYLENE CONSTRUCTION. PROVIDE WITH MANUFACTURER'S VENTED FLOW CONTROL. PDI OR UPC CERTIFIED FOR APPROVAL.
HB-1	HOSE BIBB	-	_	1/2		ZURN MODEL #Z1330-C ECOLOTROL WALL HYDRANT, SELF-DRAINING, ANTI-SIPHON WALL HYDRANT, 3/4" FEMALE SOLDER & 3/4" MALE THREADED PIPE INLET CONNECTION, STANDARD 3/4" HOSE CONNECTION OUTLET, WITH VANDAL-RESISTANT INTEGRAL VACUUM BREAKER, AND CHROME-PLATED ROUGH BRONZE BOX, & OPERATING KEY.
HS-1	HAND SINK - WALL MOUNT	1-1/4	1-1/4	1/2	1/2	ADVANCE TABCO 7-PS-EC-SP 10X14X5 WALL MOUNTED HAND WASHING SINK, TIG WELDED CONSTRUCTION, 304 STAINLESS STEEL CONSTRUCTION, 7-3/4" SIDE SPLASHES. INSTALL WITH TMV
L-1	LAVATORY, WALL MOUNTED, ADULT HEIGHT	1-1/4	1-1/4	1/2	1/2	KOHLER GREENWICH WALL MOUNT LAVATORY MODEL K-2030 WITH ZURN Z6915-XL BATTERY POWERED SENSOR FAUCET. WITH K-8998 P-TRAP AND ADA TRAP COVER. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT. INSTALL WITH TMV.
L-2	LAVATORY, WALL MOUNTED, CHILD HEIGHT	1-1/4	1-1/4	1/2	1/2	KOHLER GREENWICH WALL MOUNT LAVATORY MODEL K-2030 WITH ZURN Z6915-XL BATTERY POWERED SENSOR FAUCET. WITH K-8998 P-TRAP AND ADA TRAP COVER. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT. INSTALL WITH TMV.
MS-1	MOP SINK	3	2	1/2	1/2	ZURN MODEL #Z1996-24-AW-BV-HH-MH-WG, 24"X24" MOP SERVICE BASIN, MOLDED HIGH DENSITY COMPOSITE BASIN WITH AN INTEGRALLY MOLDED, SELF-DRAINING MOP SHELF, PVC DRAIN BODY, STAINLESS STEEL STRAINER AND 3" GASKETED OUTLET CONNECTION. WHITE BODY, VINYL BUMPER GUARD, HOSE AND HOSE BRACKET, MOP HANGER, & WALL GUARD #20 GAGE TYPE 304 STAINLESS STEEL (3) 24" PANELS. MEETS ANSI Z124.6, CSA LISTED, AND IAPMO LISTED. ZURN MODEL#Z841M1, AQUASPEC POLISHED CHROME-PLATED CAST BRASS SERVICE SINK FAUCET WITH QUARTER TURN CERAMIC DISC CARTRIDGES. ADJUSTABLE 2-1/2" LONG SWIVEL INLETS WITH INTEGRAL STOPS, CAST BRASS VACUUM BREAKER SPOUT, 3/4" HOSE THREADED OUTLET, 2-1/2" VANDAL RESISTANT COLOR-CODED BRASS LEVEL HANDLES, PAIL HOOK, & WALL BRACE.
RD-1	ROOF DRAIN	2-6				ZURN MODEL #Z164, 12" DIAMETER COMBINATION MAIN ROOF AND OVERFLOW DRAIN WITH LOW SILHOUETTE CAST IRON DOMES AND DOUBLE TOP-SET® DECK PLATE, DURA-COATED CAST IRON BODIES WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARDS, AND NO-HUB OUTLET. COORDINATE BODY HEIGHT DIMENSION WITH ROOF CONSTRUCTION TYPE.
S-1	SINK	1-1/4"	1-1/4"	1/2	1/2	JUST SINKS MODEL #SLN-2125-A-GR, SINGLE COMPARTMENT —SEAMLESS DIE-DRAWN CONSTRUCTION OF 18 GAUGE TYPE 304 18-8 STAINLESS STEEL. FULLY COATED UNDERSIDE, 6-1/2" DEEP STRAIGHT SIDED COMPARTMENT WITH 1-3/4" RADIUS CORNERS, SELF-RIMMING TOP MOUNT WITH GRIP-RIM PLUS WITH STAINLESS STEEL MOUNTING CHANNELS, (3) HOLES ON 4" CENTERS, INTEGRA-DRAIN INTEGRAL DRAIN SYSTEM LOCATED IN CENTER OF BOWL. ZURN MODEL #Z831A1-XL-P-3F, POLISHED CHROME-PLATED WIDESPREAD WITH ADJUSTABLE CENTERS, 3-1/2" CENTERLINE SWING GOOSENECK SPOUT, QUARTER TURN CERAMIC DISC CARTRIDGES. 0.5 GPM VANDAL-RESISTANT PRESSURE COMPENSATING FEMALE SPRAY OUTLET, 2-1/2" VANDAL-RESISTANT COLOR-CODED METAL LEVER HANDLES, MOUNTING HARDWARE AND 1/2" NPSM COUPLING NUTS FOR STANDARD LAVATORY RISERS, AND 1-1/4" POP-UP DRAIN. INSTALL WITH TMV
TMV	TEMPERING VALVE			1/2	1/2	WATTS LFe480 LAVATORY TEMPERING VALVE, LEAD FREE BRASS BODY, CORROSION RESISTANT INTERNAL COMPONENTS, ASSE 1070 COMPLIANT.
WC-1	WATER CLOSET, TANK TYPE - ADA	4	2	1/2		ZURN MODEL #Z5555-VL, ECOVANTAGE® HIGH EFFICIENCY, 1.28 GPF, ADA, ELONGATED, SIPHON JET TOILET, VITREOUS CHINA, HIGH EFFICIENCY, 1.28 GPF LOW CONSUMPTION, HIGH PERFORMANCE SIPHON-JET TOILET WITH 3" FLUSH VALVE, ADA/COMFORT HEIGHT, ELONGATED FRONT RIM AND 12" STANDARD ROUGH-IN, VITREOUS CHINA LID WITH VANDAL-PROOF LOCKDOWN, ZURN MODEL #Z5972-COMB CLOSET BOLT & WAX RING KIT, ZURN MODEL #Z8800-CR STANDARD STOP WITH FLEXIBLE CLOSET RISER. ZURN MODEL #Z5955SS-EL ELONGATED, STANDARD WHITE, OPEN FRONT TOILET SEAT, LESS COVER, WITH STAINLESS STEEL CHECK HINGE.
WC-2	WATER CLOSET, TANK TYPE - CHILD HEIGHT	4	2	1/2		AMERICAN STANDARD BABY DEVORO FLOWISE 10" HIGH ROUND FRONT TOILET, 1.28 GPF, VITREOUS CHINA, HIGH EFFICIENCY, LOW CONSUMPTION, 10-1/4" RIM HEIGHT, 10" ROUGH-IN, WITH OPEN-FRONT SEAT
WMOB-1	OUTLET BOX	2		1/2	1/2	PRECISION PLUMBING PRODUCTS MODEL MM-500PLB WASHING MACHINE OUTLET BOX, ASSEMBLED, CENTER DRAIN, HAMMER ARRESTORS, AND 1/4 TURN VALVES. FIELD VERIFY VALVE ORIENTATION.
	WATER HAMMER ARRESTOR					ZURN WILKINS MODEL #1260XL, LEAD FREE WATER HAMMER ARRESTOR, CERTIFIED TO NSF/ANSI STANDARD 372, DEVICE SHALL BE PRE-CHARGED AND SEALED AT THE FACTORY. INSTALL PER PDI RECOMMENDATION.

1. COORDINATE MOUNTING HEIGHTS AND HANDING WITH ARCHITECTURAL DRAWINGS AND FIELD CONDITIONS.

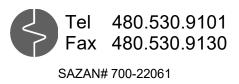
2. MANUFACTURER LISTED IS BASIS OF DESIGN. PROVIDE LISTED OR EQUAL APPROVED BY OWNER.

					ELEC	TRI	C WAT	ER HEAT	ER S	SCHED	ULE							
QUIP. NO	LOCATION	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN SERIES	TANK DESCRIPTION	VOLUME (GAL)	INPUT (KW)	NUMBER OF ELEMENTS	SIMULTANEOUS/ NON-SIMULTANEU OS	TEMP RISE (DEG F)	RECOVERY RATE (GPH)	LWT (DEG F)	THERMAL EFFICIENCY, MINIMUM	FLA	V/PH/HZ	DIMENSIONS DIAXHEIGHT (IN)	SHIPPING WEIGHT (LBS)	OPERATING WEIGHT (LBS)	REMARKS
EWH-01	LAUNDRY	AO SMITH	DRE-52-24	GLASSLINED	50	4	6	SIMULTANEOUS	90	109	140	0.86 EF	66.6	208/3/60	NOTE	265	681.5	1,2

1. PRESSURE RELIEF VALVE SET AT 150 PSI

2. PROVIDE WITH TACO 009-SF5 CIRCULATION PUMP

SÄZÄN GROUP 311 E. Veterans Way, Ste. 102 Tempe, AZ 85281





CONSTRUCTION DOCUMENTS

Revision Schedule
 No.
 Date
 Description

 1
 08.02.2023
 CITY COMMENTS

ART PROJECT NO. 22025 04.21.2023

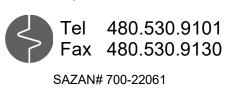


PLUMBING SCHEDULES

P2.00

GROUP

311 E. Veterans Way, Ste. 102
Tempe, AZ 85281



Catholic Charities Westside Head Start - Tolleso

CONSTRUCTION DOCUMENTS

Revision Schedule

No. Date Description

1 08.02.2023 CITY COMMENTS

22025 ART PROJECT NO.

04.21.2023



PLUMBING WASTE & VENT - PLAN

P3.01

FLAG NOTES #

1. SEE CIVIL PLANS FOR CONTINUATION TO 2" WATER METER.

3. ROUTE HW/CW HORIZONTALLY IN LOW WALL.

L-2

SÄZÄN

GROUP

311 E. Veterans Way, Ste. 102 Tempe, AZ 85281

> Tel 480.530.9101 Fax 480.530.9130

> > SAZAN# 700-22061

22025

04.21.2023

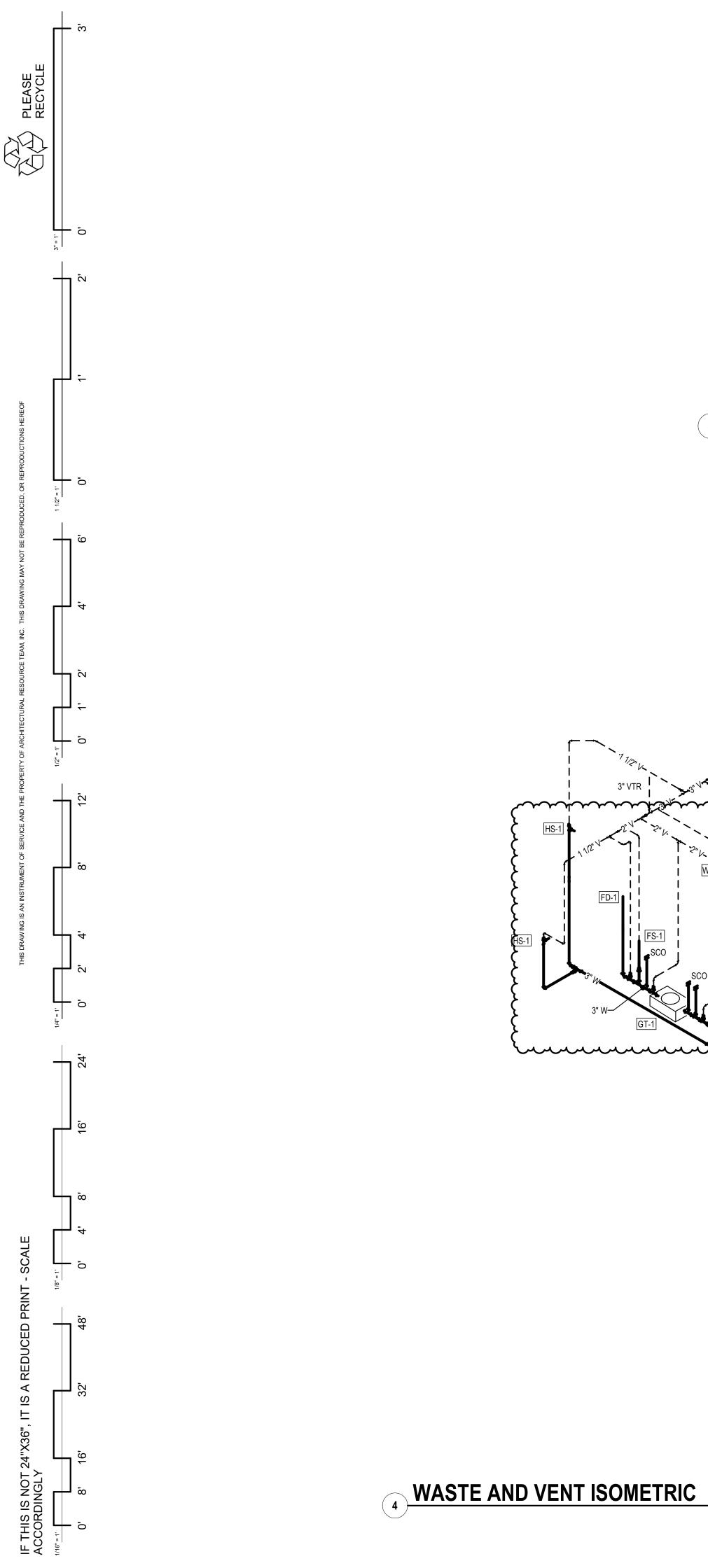
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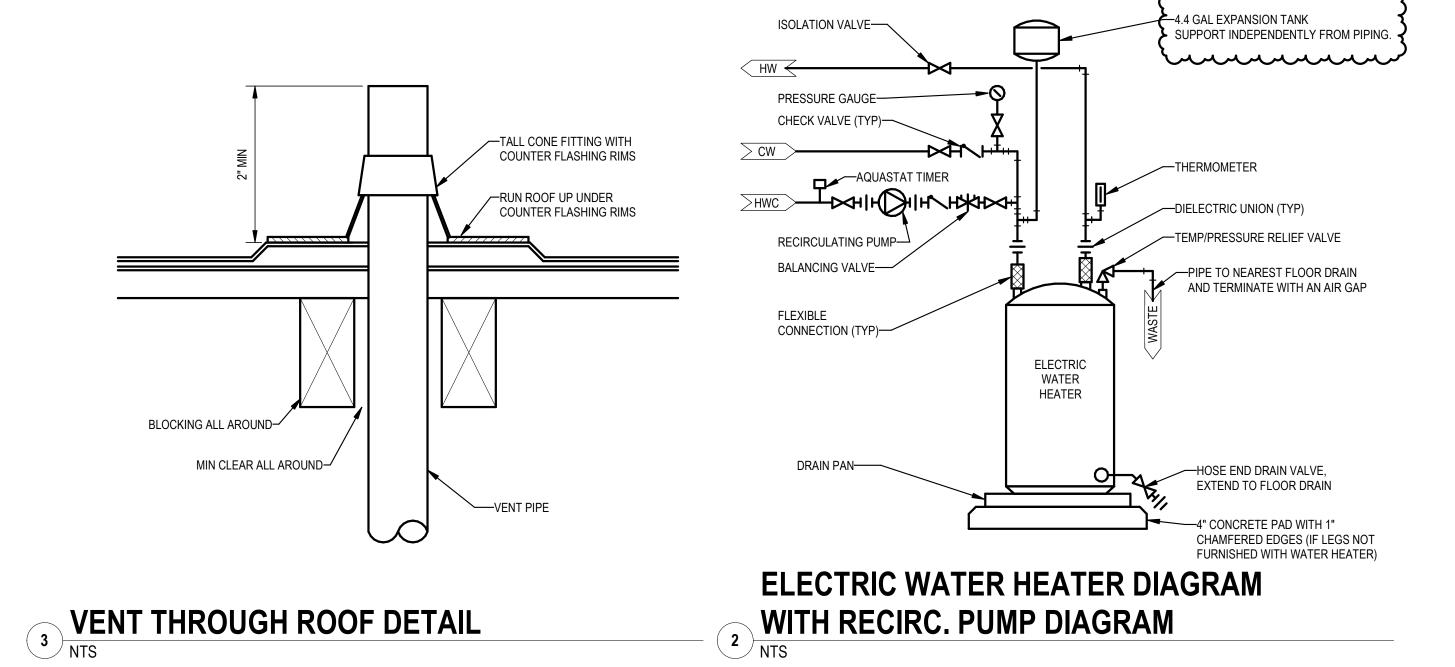
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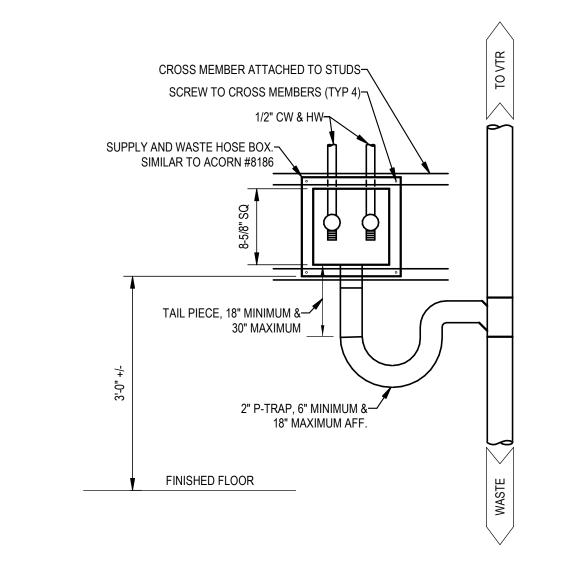


PLUMBING
DOMESTIC WATER
- PLAN

P4.01

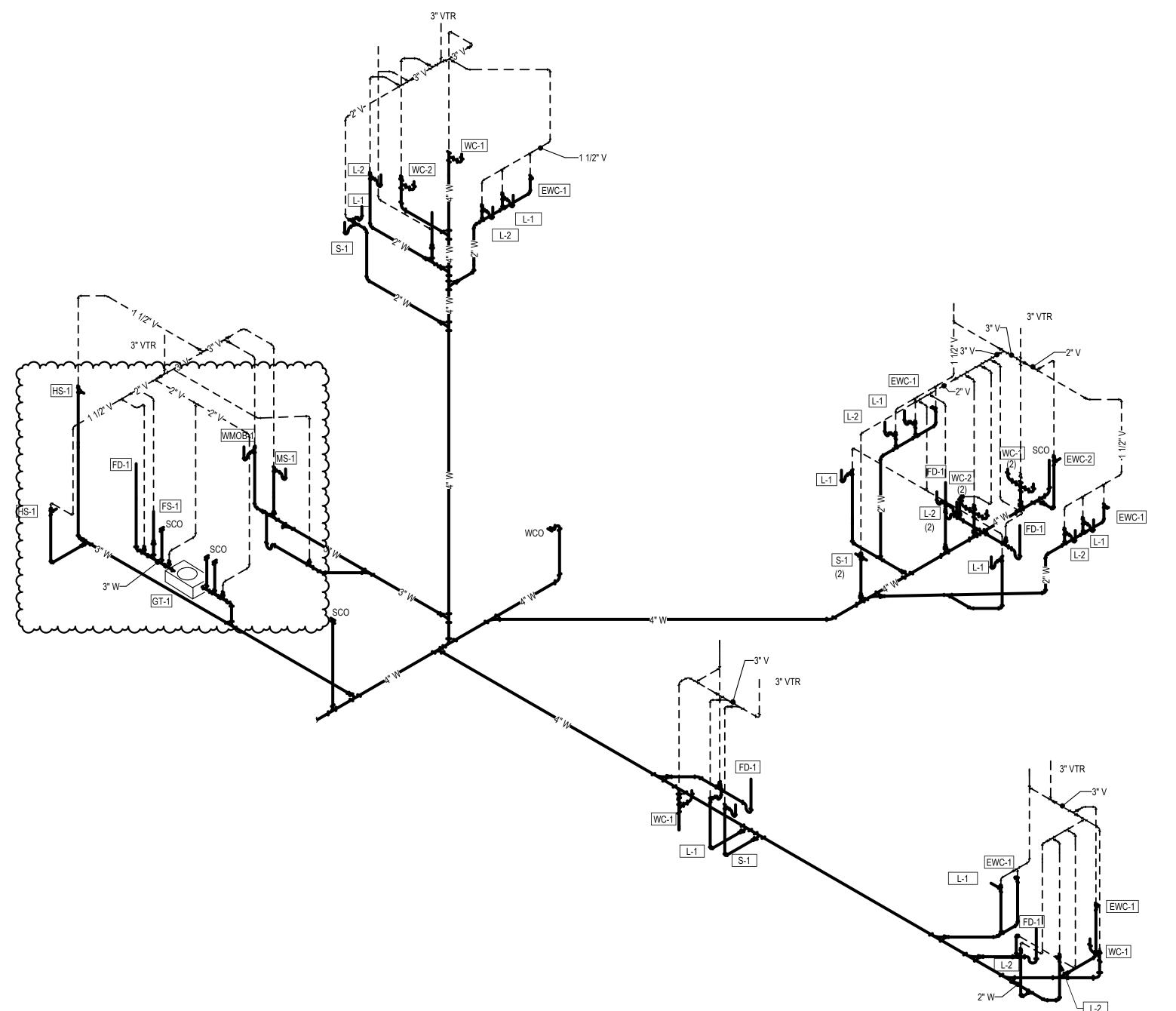






WASHING MACHINE OUTLET BOX DETAIL

NTS



olic Charities Head Cath

CONSTRUCTION DOCUMENTS

Revision Schedule No. Date Description
1 08.02.2023 CITY COMMENTS

ART PROJECT NO. 22025 04.21.2023



PLUMBING DETAILS

311 E. Veterans Way, Ste. 102 Tempe, AZ 85281 Tel 480.530.9101 Fax 480.530.9130

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GROUP

SAZAN# 700-22061

NOTE: NOT ALL SPECIFICATIONS MAY APPLY

SCOPE OF WORK

1. ALL WORK REQUIRED CONSISTS OF PERFORMING ALL LABOR AND FURNISHING ALL MATERIALS, FIXTURES AND EQUIPMENT REQUIRED TO PROVIDE COMPLETE PLUMBING INSTALLATION AS INDICATED ON THE DRAWINGS. IT SHALL FURTHER INCLUDE FURNISHING AND INSTALLING ALL MISCELLANEOUS ITEMS REQUIRED FOR THE OPERATION OF THE SYSTEMS, WHETHER SPECIFICALLY CALLED FOR OR NOT. CONNECT ALL EQUIPMENT FURNISHED UNDER OTHER TRADES AS REQUIRED. DETERMINE IN ADVANCE THE SHUT-DOWN OF EXISTING UTILITIES. 2. EXACT LOCATION OF PLUMBING FIXTURES SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS.

1. ALL MATERIALS, EQUIPMENT AND INSTALLATION MUST COMPLY WITH ALL APPLICABLE LAWS, CODES, RULES, AND REGULATIONS, REQUIRED BY CITY, COUNTY, STATE, AND FEDERAL AGENCIES.

1. THIS CONTRACTOR SHALL PAY FOR ALL PERMITS, LICENSES AND FEES REQUIRED BY STATE AND LOCAL AUTHORITIES.

1. FURNISH OWNER WITH CERTIFICATE OF INSPECTION AND APPROVAL BY LOCAL AUTHORITIES PRIOR TO FINAL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL WORK MUST BE INSPECTED.

EXISTING CONDITIONS

1. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF ALL UTILITIES PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL VISIT THE SITE AND INSPECT THE WORK HE MUST PERFORM, IN ADDITION TO WHAT IS SHOWN HEREIN, AND INCLUDE IN HIS BID AN AMOUNT TO DO SUCH WORK. 2. CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF SEWERS TO

WHICH NEW WASTE LINES ARE TO BE CONNECTED BEFORE MAKING UP OR INSTALLATION OF NEW SYSTEM. 3. CONTRACTOR SHALL NOT CUT HOLES IN STRUCTURAL MEMBERS WITHOUT FIRST SECURING WRITTEN APPROVAL FROM THE ARCHITECT.

1. WATER PIPING: A. ALL PIPING SHALL CONFORM TO THE REQUIREMENTS OF THE ANSI SAFETY CODE AND BE FREE FROM ALL DEFECTS AND BE PROPERLY IDENTIFIED.

B. ABOVE GROUND: SHALL BE TYPE "L" OR TYPE "M" HARDDRAWN COPPER TUBING CONFORMING TO ASTM B 88-72. C. BELOW GROUND: (INSTALLED IN CONCRETE OR UNDER

CONCRETE) TYPE "K" SOFT DRAWN COPPER TUBING, CONFORMING TO ASTM B 88-72, SPIRALLY WRAP PIPING BELOW GRADE OR FLOORS WITH 3 LAYERS OF 20 MIL POLYETHYLENE TAPE WITH 1/2 OVERLAP. INSTALL NO PIPING JOINTS BELOW FLOOR. D. ALL COPPER TUBING SHALL UTILIZE SWEAT FITTINGS SOLDERED

WITH ASTM B 32, ALLOY SN95, SN94, OR E, LEAD FREE SOLDER. 2. SOIL, WASTE, AND VENT PIPING: A. CAST IRON: NO-HUB CAST IRON, CISPI 301-72T SPECIFICATION

FOR ALL SOIL, WASTE AND VENT PIPING 2 INCHES AND LARGER WITH STANDARD WEIGHT FITTINGS. USE STAINLESS STEEL NO-HUB CAST IRON COUPLINGS THROUGHOUT THE PROJECT. B. GALVANIZED IRON: SCHEDULE 40 STANDARD WEIGHT CONFORMING TO ASTM A72-68, FOR ALL VENT PIPING 1-1/2" AND

SMALLER. USE WROUGHT IRON SCREWED FITTINGS TO MATCH PIPE. MAKE ALL SCREWED JOINTS WITH TEFLON TAPE. C. ALL SOIL AND WASTE PIPING SHALL SLOPE MINIMUM OF 1/4" PER

FOOT. PIPING 4" AND LARGER MAY SLOPE MIN. OF 1/8" PER FOOT SLOPE IF SITE CONDITIONS WON'T ALLOW 1/4" PER FOOT SLOPE. D. ABS: ABS PIPING CONFORMING TO ASTM D2661-78 FOR ALL SOIL WASTE AND VENT PIPING WITH MATCHING FITTINGS. ABS ABOVE AND BELOW GRADE FOR COMBUSTIBLE CONSTRUCTION OR ALLOWED BY LOCAL JURISDICTION. ABS FOR NON-COMBUSTIBLE CONSTRUCTION

BELOW GRADE ONLY. A. SIZE OF SHUT-OFF VALVES, CONTROL VALVES, BALANCING COCKS, UNIONS ETC., SHALL BE FULL LINE SIZE.

5. PIPE HANGERS: A. PIPE HANGERS SHALL BE MICHIGAN #400 FOR STEEL PIPING, #402 FOR GAS AND COPPER PIPING. SUPPORT PIPING 3/4" AND LESS AT 6'-0" O/C. 1-1/4" AND SMALLER 8'-0" O/C. AND PIPING 1-1/2" AND LARGER 10'-0" O/C. WASTE PIPING SHALL BE SUPPORTED AT 5'-0" O/C. PROVIDE 3/8" DIA. THREADED ROD PROPERLY BRACED FOR SEISMIC RESTRAINT

A. ALL HOT WATER PIPING AND HOT WATER RETURN PIPING (IF APPLICABLE) SHALL HAVE 1 INCH THICK FIBERGLASS INSULATION WITH ASJ JACKET, HAVING A THERMAL CONDUCTIVITY (K-FACTOR) OF 0.24 AT 75 DEGREES MEAN TEMPERATURE.

B. THE MAXIMUM FIRE HAZARD CLASSIFICATION OF THE INSULATION SYSTEM SHALL NOT HAVE MORE THAN A FLAME SPREAD OF 25, AND A FUEL CONTRIBUTED RATING OF 50, AND A SMOKE DEVELOPED RATING OF 50, WHEN TESTED IN ACCORDANCE WITH U.L. REQUIREMENTS. PIPE COVERING SHALL BEAR THE U.L. LABEL.

C. INSULATE ALL FITTINGS VALVE BODIES ETC. WITH SINGLE OR MULTIPLE LAYERS OF INSULATION WITH PREFABRICATED FITTINGS WITH P.V.C. JACKETS. D. SUBMIT SHOP DRAWINGS FOR ALL INSULATION MATERIALS.

7. CLEAN OUTS: (ZURN, JOSAM, SMITH) A. CLEAN OUTS SHALL BE THE SAME SIZE AS THE LARGEST DOWNSTREAM PIPE IT IS SERVING. NO PLASTIC CLEAN OUTS WILL BE ACCEPTED. PLUGS SHALL BE BRONZE.

1. FOR EACH HVAC UNIT, PROVIDE FULL SIZED 4" DEEP (MINIMUM) TRAPPED CONDENSATE DRAIN, COPPER TYPE "M" HARD DRAWN. SCHEDULE 40 PVC ALLOWED ONLY FOR INDOOR PORTION OF DRAIN WITH DUCTED RETURN AIR SITUATION. PROVIDE NON-TRAPPED DRAIN FOR EVAPORATIVE COOLING UNITS. FIELD VERIFY ROUTING IS NOT OVER CRITICAL SPACES CONTAINING WATER SENSITIVE EQUIPMENT. ROUTE PIPING TO 6" ABOVE NEAREST FLOOR SINK, MOP SINK OR DRAIN OR AS INDICATED ON THE DRAWINGS. (LAVATORY TAILPIECE IS AN ACCEPTABLE RECEPTACLE IF ALLOWED BY AUTHORITY HAVING JURISDICTION.)

SLOPE ALL CONDENSATE PIPING AT A MINIMUM OF 1/8" PER FOOT. 2. INSTALL CLEAN OUTS AT EVERY 90 DEGREE TURN ON ALL CONDENSATE DRAIN LINES.

1. PROVIDE A UNION BETWEEN CONNECTIONS TO EACH FIXTURE, DEVICE OR PIECE OF EQUIPMENT FOR DISCONNECTING OF PIPING. 2. CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTIONS OF DISSIMILAR METALS.

PIPE INSTALLATION

1. INSTALL PIPING TO BEST SUIT FIELD CONDITIONS, COORDINATE LAYOUT OF PIPING WITH DUCT WORK AND OFFSET PIPING AS REQUIRED TO CLEAR NEW DUCTWORK.

INTAKES, EVAPORATIVE COOLERS, ETC. 3. CONTRACTOR SHALL ROUGH-IN ALL WASTE AND SUPPLY PIPING TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURERS SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED.

2. ALL VENTS THROUGH ROOF SHALL BE 10'-0" REMOVED FROM ALL AIR

4. WHEN WATER PIPE AND SEWER ARE LAID PARALLEL TO EACH OTHER, ONE OF THE FOLLOWING PROCEDURES MUST BE FOLLLOWED: A. THE HORIZONTAL DISTANCE BETWEEN THE WATER PIPE AND SEWER SHALL NOT BE LESS THAN SIX (6) FEET. EACH LINE SHALL BE LAID IN A SEPARATE TRENCH, OR THE IN BETWEEN FILLED WITH COMPACT FILL. B. THE WATER SERVICE PIPE MAY BE PLACED IN THE TRENCH WITH THE BUILDING DRAIN AND/OR BUILDING SEWER, PROVIDED THE BOTTOM OF THE WATER SERVICE PIPE, AT ALL POINTS SHALL BE AT LEAST TWELVE (12) INCHES ABOVE THE TOP OF THE SEWER LINE, AND SHALL BE PLACED ON A SOLID SHELF EXCAVATED AT ONE SIDE OF THE COMMON TRENCH. SAID WATER SERVICE AND SEWER SHALL BE CONSTRUCTED OF MATERIALS APPROVED FOR USE WITHIN A BUILDING AND PRESSURE TESTED TO ASSURE WATER TIGHTNESS BEFORE BACKFILLING.

1. THE INSTALLATION OF ALL VALVES, UNIONS, THERMOMETERS, GAUGES, OR OTHER INDICATING OR RECORDING EQUIPMENT, OR SPECIALITIES REQUIRING FREQUENT READING, REPAIRS, ADJUSTMENT, INSPECTION, REMOVAL, OR REPLACEMENT SHALL BE CONVENIENTLY AND ACCESSIBLY LOCATED WITH REFERENCE TO THE FINISHED

1. FILL DOMESTIC WATER SYSTEM WITH WATER AND PRESSURIZE TO 125 PSI AND MAINTAIN FOR (4) FOUR HOURS WITH NO PRESSURE DROP. 2. FILL WASTE, SOIL, AND VENT SYSTEM WITH WATER TO HIGHEST POINT OF THE SYSTEM. HOLD PRESSURE FOR (4) HOURS WITH NO

DROP IN WATER LEVEL. 3. GAS TESTING: A. AIR PRESSURE TEST SYSTEM TO 75 PSI AND MAINTAIN FOR A PERIOD OF (8) HOURS WITH NO PRESSURE DROP. B. PURGE LINE WITH NITROGEN AT JUNCTION WITH MAIN LINE AT GAS METER TO REMOVE ALL AIR. CLEAR COMPLETE LINE BY ATTACHING A TEST PILOT FIXTURE AT CAPPED STUB-IN LINE AT THE BUILDING LOCATION AND LET GAS FLOW UNTIL TEST PILOT IGNITES.

CAUTION: FAILURE TO PURGE SYSTEM MAY RESULT IN EXPLOSION

4. TEST AND OBTAIN APPROVAL ON ALL UNDERGROUND PIPING BEFORE

COVERING WORK. PROVIDE WRITTEN TESTING REPORT TO ARCHITECT.

WITHIN LINE WHEN AIR-TO-GAS IS AT CORRECT MIXTURE.

1. AT THE COMPLETION OF THE WORK AND PRIOR TO FINAL ACCEPTANCE, ALL PARTS OF THE WORK INSTALLED UNDER THIS SPECIFICATION SHALL BE THOROUGHLY CLEANED. ALL EQUIPMENT, FIXTURES, PIPE, VALVES AND FITTINGS SHALL BE CLEANED OF GREASE, METAL CUTTINGS AND SLUDGE WHICH MAY HAVE ACCUMULATED BY OPERATION OF THE SYSTEM FOR TESTING HEREIN BEFORE SPECIFIED OR FROM OTHER CAUSES.

1. STERILIZE THE ENTIRE WATER DISTRIBUTION SYSTEM THOROUGHLY WITH A SOLUTION CONTAINING NOT LESS THAN 50 PARTS PER MILLION OF AVAILABLE CHLORINE. FOR CHLORINATING MATERIALS USE SODIUM HYPOCHLORITE SOLUTION CONFORMING TO FEDERAL SPEC. 0-8-441, GRADE D, AND INTRODUCE INTO THE SYSTEM BY USE OF A COCK AT A SLOW, EVEN, CONTINUOUS RATE. ALLOW THE STERILIZING SOLUTION TO REMAIN IN THE SYSTEM FOR A PERIOD OF 8 HOURS, DURING WHICH TIME ALL VALVES AND FAUCETS SHALL BE OPENED AND CLOSED SEVERAL TIMES. AFTER STERILIZATION, FLUSH THE SOLUTION FROM THE SYSTEM WITH CLEAN WATER UNTIL THE RESIDUAL CHLORINE CONTENT IS NOT GREATER THAN 0.2 PARTS PER MILLION. PLATE COUNT SHALL INDICATE COUNT LESS THAN 100 BACTERIA PER CC.

1. THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP FROM DEFECT OF MATERIAL AND WORKMANSHIP, AND SHALL REPLACE OR REPAIR, WITHOUT ADDITIONAL COST TO THE OWNER, ALL DEFECTIVE MATERIAL AND WORKMANSHIP FOR A PERIOD (1) YEAR AFTER COMPLETION AND ACCEPTANCE.

1. ALL CONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATING WORK WITH OTHER TRADES AFFECTED BY EACH OTHERS WORK AND FOR CUTTING AND REFINISHING OF EXISTING WALLS, FLOORS, SOLID AND SUSPENDED CEILINGS ETC., WHERE REQUIRED BY WORK SHOWN AND NOTED HEREIN. INSTALL ALL WORK TO CLEAR NEW AND EXISTING ARCHITECTURAL AND STRUCTURAL MEMBERS. ITEMS SUCH AS PIPE, FITTINGS, ETC., SHALL NOT BE INSTALLED IN CONFLICT WITH EQUIPMENT. COORDINATE ALL CUTTING AND PATCHING WITH THE GENERAL CONTRACTOR. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF HIS WORK. OBTAIN WRITTEN PERMISSION OF ARCHITECT BEFORE PROCEEDING WITH ANY CUTTING OR PATCHING OF STRUCTURAL SYSTEMS.

1. SUBSTITUTIONS OF MATERIALS OR PRODUCTS SHOWN HEREIN SHALL BE AT THE OWNER'S, ARCHITECT'S, OR ENGINEER'S WRITTEN APPROVAL ONLY, WITH COPIES OF APPROVAL SENT TO ARCHITECT FOR PROJECT FILE. DEVIATION FROM THESE DRAWINGS WILL NOT BE ALLOWED.

1. PROVIDE TWO (2) SETS OF "RECORD" DRAWINGS AND TWO (2) BOUND GUARANTEES, ETC., ONE FOR THE OWNER AND ONE FOR BUILDING OPERATIONS DEPARTMENT. OBTAIN A COMPLETE SET OF RECORD DRAWINGS OF EXISTING CONSTRUCTION FROM THE OWNERS FOR INFORMATION ON EXISTING CONDITIONS. INCORPORATE ANY EXISTING CONDITIONS ON NEW RECORD DRAWINGS REQUIRED TO SHOW THE "INSTALLED" INSTALLATION.

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CONSTRUCTION **DOCUMENTS**

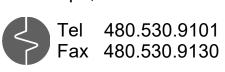
Revision Schedule No. Date Description

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ART PROJECT NO. 22025 04.21.2023



GROUP 311 E. Veterans Way, Ste. 102 Tempe, AZ 85281



SAZAN# 700-22061

SÄZÄN



P9.00

GENERAL NOTES

- 1. SYMBOLS LEGENDS ARE PROVIDED FOR REFERENCE PURPOSES ONLY. THE SYMBOLS REPRESENT THE TYPE OF DEVICES THAT MAY BE REQUIRED IN THE WORK; QUANTITIES AND LOCATIONS ARE AS SHOWN ON THE PLAN
- 2. PROVIDE 3/4" CONDUIT & #12 CONDUCTORS UNLESS NOTED OTHERWISE. PROVIDE ONE NEUTRAL CONDUCTOR FOR EACH UNGROUNDED CONDUCTOR OF SINGLE PHASE LINE-NEUTRAL BRANCH CIRCUITS. DO NOT SHARE
- 3. EACH FEEDER AND BRANCH CIRCUIT CONDUIT SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH NFPA 70, ARTICLE 250.
- 4. ALL ELECTRICAL EQUIPMENT IN PORTIONS OF THE BUILDING NOT BEING REMODELED SHALL BE LEFT IN WORKING CONDITION. RESTORE ANY CIRCUITS INTERRUPTED.
- 5. ALL NEW LIGHT FIXTURES AND FIXTURES IN AREAS ADJACENT DEMOLITION & CONSTRUCTION AREAS ARE TO BE

THOROUGHLY CLEANED IMMEDIATELY PRIOR TO NOTICE OF SUBSTANTIAL COMPLETION.

- 6. THE FOLLOWING IS PART OF THIS PROJECT AND ALL COSTS PERTAINING THERETO SHALL BE INCLUDED IN THE
- A. NEW ELECTRICAL EQUIPMENT AND APPARATUS SHALL BE COORDINATED AND CONNECTED INTO THE EXISTING SYSTEM AS REQUIRED.
- B. POWER WIRING AND CABLE INSTALLATIONS SHALL BE CONCEALED ABOVE ACCESSIBLE CEILINGS AND IN WALLS. EXPOSED WIRING SHALL BE INSTALLED IN APPROVED SURFACE METAL RACEWAY WHERE
- C. WHERE EXISTING CONDUITS ARE INDICATED FOR REUSE, FIELD VERIFY INTEGRITY OF REUSED RACEWAYS PRIOR TO INSTALLATION OF CONDUCTORS. PROVIDE NEW RACEWAYS WHERE EXISTING ARE UNUSABLE.
- D. LOCATIONS OF ALL WALL MOUNTED DEVICES SUCH AS SWITCHES, RECEPTACLES, AND OUTLETS ARE SHOWN DIAGRAMMATICALLY. DETERMINE EXACT DEVICE LOCATIONS IN FIELD; COORDINATE
- E. PROVIDE PENETRATIONS THROUGH WALLS, FLOORS, AND CEILINGS AS REQUIRED. PROVIDE SUITABLE FIRE RATED MATERIALS AND SEAL ALL CEILING, FLOOR, AND WALL PENETRATIONS TO MATCH FIRE RATING OF SURFACES PENETRATED.

LIGHTING AND RECEPTACLE NOTES

INSTALLATIONS WITH FIXED CASEWORK, DOORS AND RELITES.

- 1. LIGHTING SYSTEMS SHALL BE PROVIDED WITH CONTROLS AS ZONED ON THE LIGHTING PLANS. SWITCHING AND DIMMING ZONES ARE INDICATED ADJACENT TO EACH FIXTURE.
- 2. MANUAL CONTROLS SHALL ALLOW OCCUPANTS TO UNIFORMLY REDUCE ILLUMINATION LEVELS AT LEAST 50%. EXCEPTION: CORRIDORS, RESTROOMS, LOBBIES, MECHANICAL, ELECTRICAL, AND INFORMATION TECHNOLOGY (IDF) ROOMS CONTROLLED BY OCCUPANCY SENSORS.
- 3. EACH AREA THAT IS REQUIRED TO HAVE A MANUAL CONTROL SHALL ALSO HAVE AUTOMATIC TIME SWITCH CONTROL. PROVIDE TIMED OVERRIDE SWITCHES THAT WILL SERVE A MAXIMUM AREA OF 2500 SF IN LOCATIONS SHOWN ON PLANS. EXCEPTIONS:
- A. EMERGENCY EGRESS LIGHTING CONTROLLED BY OCCUPANCY SENSORS. B. LIGHTING IN SPACES CONTROLLED BY OCCUPANCY SENSORS.
- 4. LUMINAIRES PROVIDING MEANS OF EGRESS ILLUMINATION AND HAVING BOTH NORMAL AND EMERGENCY POWER SOURCES SHALL BE CONTROLLED BY A COMBINATION OF U.L. 924 LISTED EMERGENCY RELAYS AND OCCUPANCY SENSORS THAT ENABLES THE LIGHTING TO BE SHUT OFF WHEN THE AREAS SERVED ARE UNOCCUPIED AND AUTOMATICALLY ILLUMINATES IN THE EVENT OF NORMAL POWER SOURCE FAILURE.
- 5. THE MAXIMUM LIGHTING POWER THAT MAY BE CONTROLLED FROM A SINGLE SWITCH OR AUTOMATIC CONTROL SHALL NOT EXCEED THAT WHICH IS PROVIDED BY A 20 AMPERE CIRCUIT LOADED TO NOT MORE THAN 80
- 6. PROVIDE FUNCTIONAL TESTING OF AUTOMATIC LIGHTING CONTROLS. SUBMIT WRITTEN PROCEDURES FOR FUNCTIONAL TESTING OF ALL AUTOMATIC CONTROLS WITH DESCRIPTION OF THE EXPECTED SYSTEM RESPONSE.

ABBRE	<u>EVIATIONS</u>		
@ A/C	AT AIR CONDITIONING(ER)	MAG MAN	MAGNETIC MANUAL
A (AMP)	AMPERE	MAT	MATERIAL
AC	ABOVE COUNTER, ALTERNATING CURRENT	MAX MCA	MAXIMUM MINIMUM CIRCUIT AMPACITY
ADJ	ADJUSTABLE	MCB	MAIN CIRCUIT BREAKER
ADJT	ADJACENT	MECH	MECHANICAL
AFF AHJ	ABOVE FINISHED FLOOR AUTHORITY HAVING JURISDICTION	MEZZ MG	MEZZANINE MOTOR GENERATOR
AIC	AMPERE INTERRUPTING CAPACITY	MIN	MINIMUM
ALT ANN	ALTERNATE ANNUNCIATOR	MISC MLO	MISCELLANEOUS MAIN LUG ONLY
ARCH	ARCHITECT; ARCHITECTURAL	MOCP	MAXIMUM OVERCURRENT
ATS AUTO	AUTOMATIC TRANSFER SWITCH AUTOMATIC	MS	PROTECTION MAGNETIC STARTER
AUX	AUXILIARY	MTD	MOUNTED
AWG	AMERICAN WIRE GAUGE	MTG MTR	MOUNTING MOTOR
BKBD	BACKBOARD		
BKR BLDG	BREAKER BUILDING	N N/A	NORTH; NEUTRAL NOT APPLICABLE
•	COMPUIT	NC	NORMALLY CLOSED
C CAP	CONDUIT CAPACITY	NEC NEMA	NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL
СВ	CIRCUIT BREAKER		MANUFACTURERS ASSOCIATION
CKT CLG	CIRCUIT CEILING	NESC NEUT	NATIONAL ELECTRICAL SAFETY CODE NEUTRAL
CLR	CLEAR	NFPA	NATIONAL FIRE PROTECTION ASSOC.
COL COM	COLUMN COMMUNICATION	NIC NO	NOT IN CONTRACT NORMALLY OPEN
CPS	CYCLES PER SECOND	NTS	NOT TO SCALE
CT CTL	CURRENT TRANSFORMER CONTROL	ОС	ON CENTER
CU	COPPER	OFCI	OWNER FURNISHED CONTRACTOR
DC	DIRECT CURRENT	OFOI	INSTALLED OWNER FURNISHED OWNER
DISC SW	DISCONNECT SWITCH	OL	INSTALLED OVERLOAD
DISC DN	DISCONNECT DOWN	OS	OPTIONAL STANDBY
DWG	DRAWING	Р	PRIMARY
E	EXIST, EAST	PA PAR	PUBLIC ADDRESS PARALLEL
EDH	ELECTRIC DUCT HEATER	PB	PULL BOX
EF EGC	EXHAUST FAN EQUIPMENT GROUNDING CONDUCTOR	PE PF	PHOTO ELECTRIC POWER FACTOR
EL	ELEVATION ELECTRIC(AL) ELEVATOR EMERGENCY	PH	PHASE
ELEC	ELECTRIC(AL)	PIV	POST INDICATOR VALVE
ELEV EM	ELEVATOR FMFRGENCY	PNL POC	PANEL POINT OF CONNECTION
LM1	ELECTRICAL METALLIC TUBING	PWR	POWER
ENCL ENTR	ENCLOSURE ENTRANCE	QTY	QUANTITY
EP	EXPLOSION PROOF		
EPO EOUIP/EOP	EMERGENCY POWER OFF EQUIPMENT	R (R) RAD	RELOCATE (D) RADIUS
EWC	ELECTRIC WATER COOLER	RECPT	RECEPTACLE
	ELECTRIC WATER HEATER	REF	
	EXHAUST EXTERIOR	RLA RPM	RATED LOAD AMPS REVOLUTIONS PER MINUTE
EXIST	EXISTING	S	SOUTH
F	FAHRENHEIT/FUSE	SC	SECURITY
	FIRE ALARM	SD SECT	SMOKE DETECTOR
FAA FAP	FIRE ALARM ANNUNCIATOR FIRE ALARM PANEL	SECT	SECTION SUPPLY FAN
FC	FOOTCANDLE	SHT	SHEET
FCU FD	FAN COIL UNIT FIRE DAMPER	SPEC SPL	SPECIFICATION SPECIAL
FDR	FEEDER	SQ	SQUARE
FIXT FLA	FIXTURE FULL LOAD AMPS	STOR SPD	STORAGE SURGE PROTECTION DEVICE
FSD	FIRE/SMOKE DAMPER	SW	SWITCH
GEC	GROUNDING ELECTRODE CONDUCTOR	SWBD SYM	SWITCHBOARD SYMMETRICAL
GEN	GENERATOR	SYS	SYSTEM
GFI GFR	GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT RELAY	Т	THERMOSTAT
		TB	TERMINAL BOX
H HOA	HEIGHT HAND OFF AUTOMATIC	TC TEL	TIME CLOCK TELEPHONE
HOR	HORIZONTAL	TV	TELEVISION
HP HR	HORSEPOWER HOUR	TYP	TYPICAL
HT	HEIGHT	UFC	UNIFORM FIRE CODE
HW HZ	HOT WATER	UG UH	UNDERGROUND
1 I L	HERTZ	UH UL	UNIT HEATER UNDERWRITERS LABORATORIES
IBC	INTERNATIONAL BUILDING CODE	UON	UNLESS OTHERWISE NOTED
IC IES	INTERCOM ILLUMINATING ENGINEERING SOCIETY	UV	UNIT VENTILATOR
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONIC	V	VOLT
IG	ENGINEERS ISOLATED GROUND	VAV VEL	VARIABLE AIR VOLUME VELOCITY
IMC IN	INTERMEDIATE METAL CONDUIT INCH	VM VOL	VOLTMETER VOLUME
		-	
JB	JUNCTION BOX	W W/	WATT, WEST WITH
KCMIL	THOUSAND CIRCULAR MILLS	W/O	WITHOUT
KVA KVAR	KILOVOLT AMPERES KILOVOLT AMPERES REACTIVE	WH WHM	WATER HEATER WATTHOUR METER
KW	KILOWATT	WP	WEATHERPROOF
KWH	KILOWATT HOUR	X	REACTANCE
	DOLINDO	XFMR	TRANSFORMER
LBS	POUNDS		
LBS LF	LINEAR FEET (FEET) LOCKED ROTOR AMPS	XMTR	TRANSMITTER
LBS LF LRA LS	LINEAR FEET (FEET) LOCKED ROTOR AMPS LIFE SAFETY		
LBS LF LRA LS	LINEAR FEET (FEET) LOCKED ROTOR AMPS	XMTR	TRANSMITTER
LBS LF LRA LS LT	LINEAR FEET (FEET) LOCKED ROTOR AMPS LIFE SAFETY LIGHT	XMTR Z	TRANSMITTER IMPEDANCE

	ELECTRICAL SHEET INDEX
E3.01	ELECTRICAL LIGHTING - PLAN
E4.01	ELECTRICAL POWER - PLAN
E4.11	ELECTRICAL POWER - ROOF PLAN
E6.00	ELECTRICAL ONE-LINE DIAGRAM
E7.00	ELECTRICAL PANELBOARD SCHEDULES
E0.00	GENERAL NOTES, ABBREVIATIONS AND SHEET INDEX
E0.01	ELECTRICAL LEGEND
E0.02	ELECTRICAL SPECIFICATIONS
E1.01	ELECTRICAL - SITE PLAN
E1.02	PHOTOMETRIC SITE PLAN
E1.03	PHOTOMETRIC LIGHT FIXTURE CUT SHEETS
E2.00	ELECTRICAL SCHEDULES

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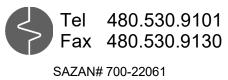
CONSTRUCTION DOCUMENTS

Revision Schedule No. Date Description

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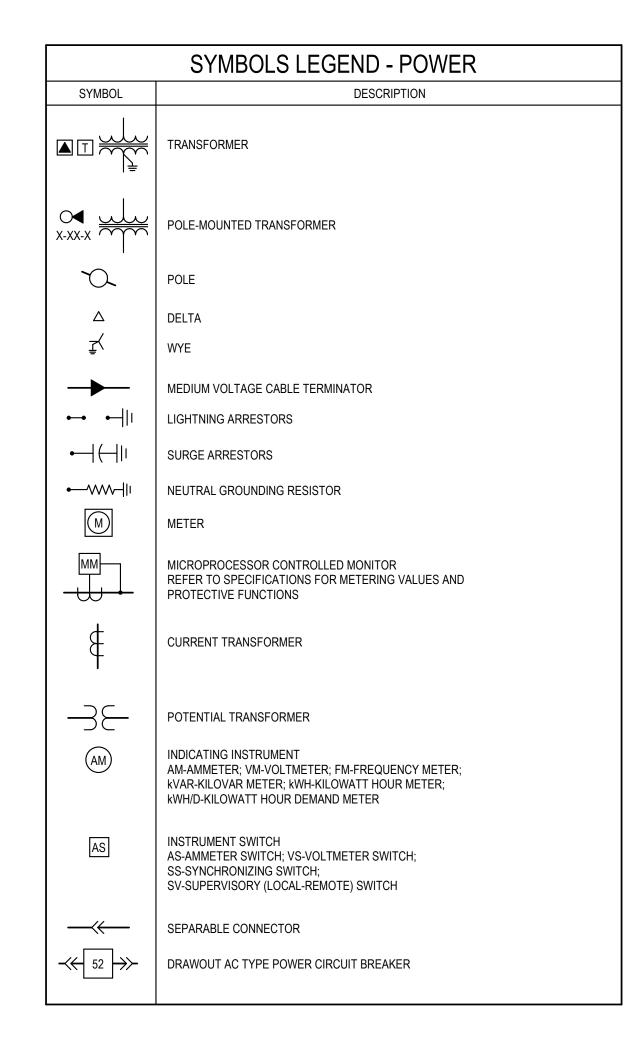


SÄZÄN GROUP 311 E. Veterans Way, Ste. 102 Tempe, AZ 85281



GENERAL NOTES, ABBREVIATIONS AND SHEET INDEX

E0.00



SYMBOLS LEGEND - POWER

480Y/277V, 3Ø, 4W PANELBOARD

208Y/120V, 3Ø, 4W PANELBOARD

TRANSFER SWITCH (AUTO)

AMPERES SHORT CIRCUIT AVAILABLE (SYMMETRICAL)

SYMBOLS LEGEND - COMMUNICATIONS

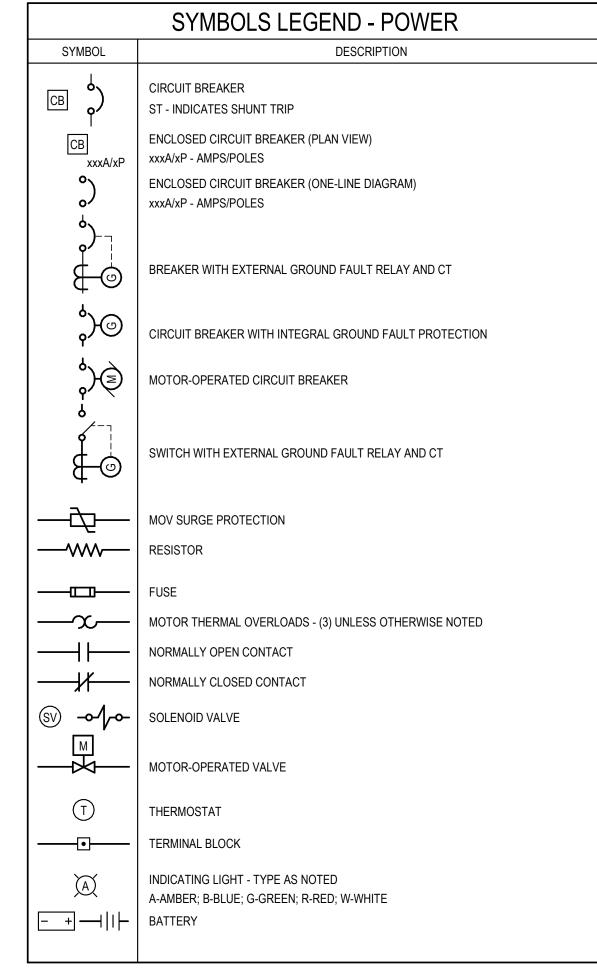
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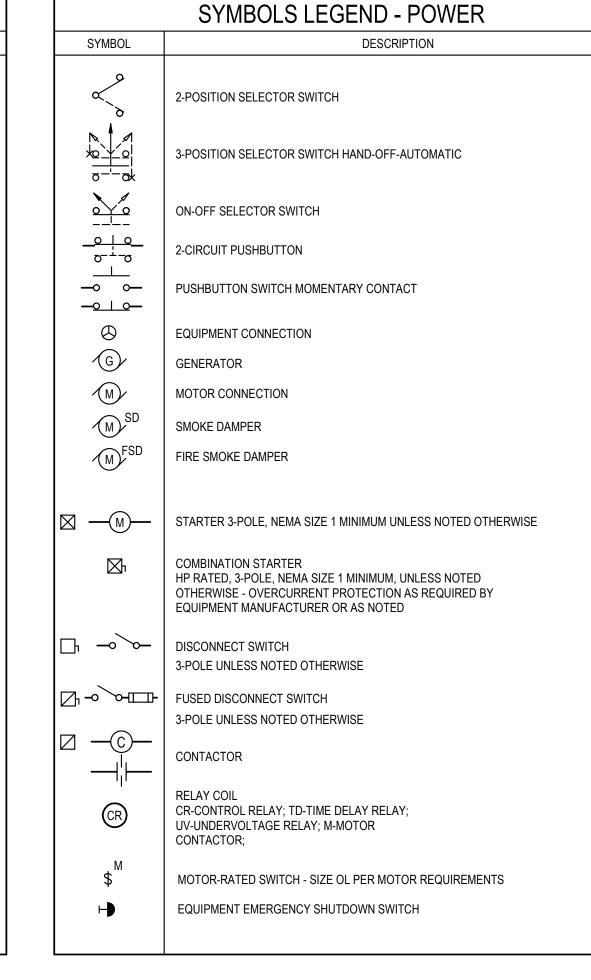
FEEDER TAG - REFER TO FEEDER SCHEDULE

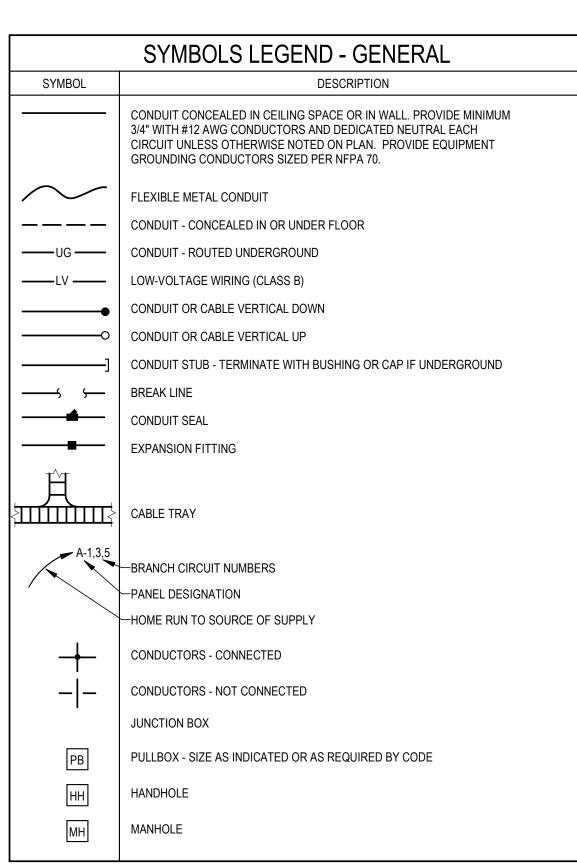
PANELBOARD

EQUIPMENT CABINET - TYPE AS NOTED

DESCRIPTION







_	OONDOOTONO - OONNEOTED		
- -	CONDUCTORS - NOT CONNECTED	#	WALL MOUNTED DATA DEVICE. MOUNT AT 18" AFF UNLESS OTHERWISE NOTED. NUMBER INDICATES QUANTITY OF PORTS.
[DD]	JUNCTION BOX PULLBOX - SIZE AS INDICATED OR AS REQUIRED BY CODE	(#)	MUD RING TO ACCOMMODATE PASS THROUGH FOR AUDIOVISUAL CABLING. MOUNT AT 18" AFF UNLESS OTHERWISE NOTED. NUMBER INDICATES NUMBER OF GANG SPACES.
PB HH	HANDHOLE	\P	CEILING MOUNTED DATA DEVICE. COORDINATE WITH ARCHITECTURAL CEILING PLANS FOR MOUNTING HEIGHTS UNLESS OTHERWISE NOTED. NUMBER INDICATES QUANTITY OF PORTS.
МН	MANHOLE	AP	WIRELESS ACCESS POINT LOCATION. PROVIDE CABLING IN THE QUANTITY INDICATED WITH 10'-0" SERVICE LOOP IN ACCESSIBLE CEILING SPACE.
CVA		VP	VIDEO PROJECTOR LOCATION. PROVIDE CABLING IN THE QUANTITY INDICATED WITH 10'-0" SERVICE LOOP IN ACCESSIBLE CEILING SPACE.
SYIVI	BOLS LEGEND - AUDIO VISUAL / CLOCK		
1BOL	DESCRIPTION	AP	DATA DEVICE MOUNTED IN FLOOR BOX. NUMBER INDICATES QUANTITY OF PORTS. FLOOR BOX PROVIDED BY ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
Ž	TV OUTLET	⊙	DATA DEVICE MOUNTED IN POKE-THRU. NUMBER INDICATES QUANTITY OF PORTS. POKE-THRU PROVIDED BY ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
		⊠<#	FLOOR SURFACE MOUNTED DATA DEVICE. NUMBER INDICATES QUANTITY OF PORTS.
			DATA DEVICE MOUNTED POWER/COMM POLE. NUMBER INDICATES QUANTITY OF PORTS. POWER/COMM POLE PROVIDED BY ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

SYMBOL

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SYMBOL

\$ ^{xx}	WALL SWITCH - SUBSCRIPT
	2 = 2-POLE LV = LOW-VOLTAGE 3 = 3-WAY OS = OCCUPANCY SENSOR TYPE 4 = 4-WAY OP = OCCUPANCY/PHOTOELECTRIC TYPE K = KEYED WP = WEATHERPROOF LOWER CASE LETTER INDICATES SWITCHING GROUP
	MOUNT SWITCHES AT +48" AFF. TO TOP, UON. ANY COMBINATION OF SWITCH TYPES CAN BE USED (IE. 3K = 3-WAY KEYED SWITCH)
	SPECIAL PURPOSE RECEPTACLE TYPE AS SHOWN ON PLANS
	SINGLE SERVICE OR COMBINATION FLUSH MOUNTED FLOOR BOX. REFER TO FLOOR PLANS FOR DEVICES.
	SINGLE SERVICE OR COMBINATION FLUSH FLOOR POKE THRU. REFER TO FLOOR PLANS FOR DEVICES.
	POWER/COMM POLE - FLOOR TO CEILING.
	SURFACE MOUNTED FLOOR BOX (PEDESTAL TYPE).
•	PUSH BUTTON
Ф	SIMPLEX RECEPTACLE NEMA 5-20R, +18" AFF UON
\Leftrightarrow \Leftrightarrow	NEMA 5-20R, +18" AFF UON
\bigoplus \vdash \bigoplus	TAMPER RESISTANT, NEMA 5-20R, +18" AFF UON
$rac{rac}{rac} \sim rac{rac}{rac} \sim rac{rac}{rac$	SWITCHED RECEPTACLE, NEMA 5-20R, +18" AFF UON
→ □ → □	ISOLATED GROUND, NEMA 5-20R, +18" AFF UON
\rightarrow	NEMA 5-20R W/ GROUND FAULT CIRCUIT INTERRUPTER, +18" AFF UON
→ →	SPLIT WIRED, NEMA 5-20R, +18" AFF UON
-	CONTROLLED, NEMA 5-20R, +18" AFF UON
€	NEMA 5-20R, ABOVE COUNTER. COORDINATE WITH CASEWORK SHOP DRAWINGS AND ARCHITECTURAL DRAWINGS.
	NEMA 5-20R WITH GROUND FAULT CIRCUIT INTERRUPTER, ABOVE COUNTER. COORDINATE WITH CASEWORK SHOP DRAWINGS AND ARCHITECTURAL DRAWINGS.
→ ⊢ → ⊢	TAMPER RESISTANT, NEMA 5-20R WITH GROUND FAULT CIRCUIT INTERRUPTER, ABOVE COUNTER. COORDINATE WITH CASEWORK SHOP DRAWINGS AND ARCHITECTURAL DRAWINGS.
← ←	NEMA 5-20R, CONNECTED TO EMERGENCY CIRCUIT, +18" AFF UON
©	NEMA 5-20R ON EMERGENCY CIRCUIT MOUNTED ABOVE COUNTER. COORDINATE WITH CASEWORK SHOP DRAWINGS AND ARCHITECTURAL DRAWINGS.
Ф #	CEILING-MOUNTED, NEMA 5-20R
\$	NEMA 5-20R WITH USB CHARGER - (2) TYPE A USB PORTS
₽ ⊢	TAMPER RESISTANT, NEMA 5-20R WITH USB CHARGER - (2) TYPE A USB PORTS

SYMBOLS LEGEND - WIRING DEVICES

SINGLE-POLE WALL SWITCH MOUNT SWITCHES AT 48" AFF. TO TOP, UON.

SYMBOL

	<u> </u>
0	L1 — LIGHT FIXTURE IDENTIFIER - REFER TO LUMINAIRE SCHEDULE A - 1 — PANEL NAME - CIRCUIT NUMBER Z-XXX-1 — SWITCH DESIGNATION - MIDDLE DIGITS REFER TO ROOM NUMBER - END DIGITS REFER TO SWITCH LEG
	* IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: RL1 / A-1 / a / NL
Q	SHADING INDICATES LUMINAIRE ON EMERGENCY CIRCUIT OR WITH BATTERY BACKUP
	2x4 LUMINAIRE
	1x4 LUMINAIRE
0	2x2 LUMINAIRE
	LINEAR LUMINARE
	WALL WASH LUMINAIRE WALL MOUNTED LUMINAIRE
_ <u>-</u>	UNDER-CABINET LUMINAIRE
— О—	STRIP LUMINAIRE
0	DOWNLIGHT
0	WALL WASH DOWNLIGHT LUMINAIRE
Ю	WALL MOUNTED LUMINAIRE
Ю• ©	WALL MOUNTED DIRECTIONAL LUMINAIRE
_	PENDANT MOUNTED LUMINAIRE TRACK LIGHT - LENGTH AS INDICATED ON PLANS
ΔΔΔ	NUMBER OF LUMINAIRES AS SHOWN
	POLE-MOUNTED LUMINAIRE - NUMBER OF LUMINAIRES AS SHOWN ON PLANS
$ \square$	STREET LIGHT
0	IN-GROUND LANDSCAPE LUMINAIRE
⊗ ‡	ILLUMINATED EXIT SIGN - SINGLE FACE ARROW INDICATES DIRECTION OF EGRESS, UNIVERSAL MOUNT
†⊕ †	ILLUMINATED EXIT SIGN - DOUBLE FACE ARROW INDICATES DIRECTION OF EGRESS, UNIVERSAL MOUNT
484	BATTERY-POWERED EMERGENCY WALLPACK
	COMBINATION BATTERY POWERED EMERGENCY WALLPACK AND ILLUMINATED EXIT SIGN
TC	TIME CLOCK - TYPE AS NOTED
PP	LIGHTING CONTROL SYSTEM POWER PACK
SB	SWITCH BYPASS DEVICE
ICS1-1	ILLUMINATION CONTROL STATION
OS	OCCUPANCY SENSOR CEILING MOUNTED WITH POWER PACK - DUAL TECHNOLOGY TYPE UNLESS NOTED:
OS U	U = ULTRASONIC
OS _P	P = PASSIVE INFRARED
HOS	OCCUPANCY SENSOR WALL MOUNTED
PC	PHOTOELECTRIC CONTROL CEILING MOUNTED
HPC	PHOTOELECTRIC CONTROL WALL MOUNTED

SYMBOLS LEGEND - LIGHTING

DESCRIPTION

SYMBOL

Catholic Charities Westside Head Start - Tolles

CONSTRUCTION
DOCUMENTS

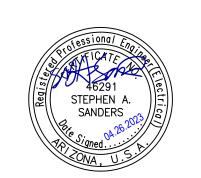
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22025 ART PROJECT NO.

04.21.2023



GROUP

311 E. Veterans Way, Ste. 102
Tempe, AZ 85281

Tel 480.530.9101
Fax 480.530.9130

SAZAN# 700-22061

LEGEND
480.530.9101
480.530.9130

E0.01

ELECTRICAL

ELECTRICAL SPECIFICATIONS

1 GENERAL PROVISIONS:

SUMMARY: THIS DIVISION DESCRIBES IN GENERAL, REQUIREMENTS OF THE ELECTRICAL SYSTEM AND RELATED ITEMS OF WORK NECESSARY FOR THE COMPLETE JOB INDICATED BY THE CONTRACT DOCUMENTS. THE GENERAL AND SUPPLEMENTAL CONDITIONS OF THE CONTRACT ARE APPLICABLE TO THIS DIVISION AND SHALL FORM A PART OF THE CONTRACT.

ELECTRICAL RELATED WORK DESCRIBED IN OTHER DIVISIONS SHALL BE PROVIDED UNDER THIS DIVISION IN ACCORDANCE WITH THE ELECTRICAL REQUIREMENTS PRESCRIBED IN THE RESPECTIVE EQUIPMENT SPECIFICATIONS. REVIEW ALL DRAWINGS AND SPECIFICATIONS FOR ELECTRICAL RELATED WORK AND PROVIDE ELECTIRCAL CONNECTIONS IN COORDINATION WITH WORK OF OTHER DIVISIONS

GENERAL LIST OF WORK:

DISTRIBUTION SYSTEMS FOR LIGHTING AND POWER INCLUDING FEEDERS, BRANCH CIRCUIT PANELS, LIGHTING FIXTURES WITH LAMPS, CONTROL SWITCHES/SYSTEMS, RECEPTACLES, AND DISCONNECT SWITCHES.

ELECTRICAL CONNECTIONS FOR KITCHEN EQUIPMENT

SLEEVES, BLOCK-OUTS, INSERTS, ANCHORAGE DEVICES, ETC.

REGULATIONS OF ANY AND ALL STATE AND LOCAL CODES AND ORDINANCES.

ELECTRICAL CONNECTIONS FOR HVAC EQUIPMENT AND LINE VOLTAGE CONTROL SYSTEMS

PERMITS: SECURE AND PAY FOR ALL NECESSARY PERMITS AND LICENSES, SERVICES, AND ALL INSPECTION FEES AS REQUIRED BY JOB.

CODES AND ORDINANCES: INSTALL ALL WORK IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ITS LATEST REVISIONS, WITH THE

ALL WORK INCLUDED SHALL COMPLY WITH ALL STATE AND LOCAL RULES AND REGULATIONS. FURNISH TO THE OWNER ALL CERTIFICATES OF INSPECTION AND APPROVAL AS REQUIRED.

EXAMINATION OF PREMISES:

PRIOR TO SUBMITTING A PROPOSAL, EXAMINE THE CONTRACT DOCUMENTS IN THEIR ENTIRETY AND VISIT THE SITE TO BECOME FAMILIAR WITH CONDITIONS WHICH WILL IN ANY WAY AFFECT THE WORK UNDER THIS CONTRACT. ALL SITE RELATED COSTS SHALL BE INCLUDED IN BASE BID. AFTER CONTRACT AWARD, CHANGES TO THE CONTRACT SUM OR CONTRACT TIME DUE TO SITE CONDITIONS WILL NOT BE ALLOWED.

PRIOR TO ORDERING ANY MATERIALS OR DOING ANY WORK, VERIFY THE DIMENSIONS AT THE SITE. NO EXTRA CHARGES OR COMPENSATION WILL BE ALLOWED FOR DIFFERENCES BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE DRAWINGS. IMMEDIATELY REPORT DIFFERENCES TO THE ARCHITECT AND DO NOT PROCEED WITH WORK UNTIL THE ARCHITECT RENDERS HIS DECISION.

HANGERS: PROVIDE ALL UNISTRUT, HANGERS, SUPPORTS, ETC., REQUIRED FOR WORK UNDER THIS DIVISION. SUPPORT CONDUIT FROM BUILDING STRUCTURE, NOT FROM CEILING SUPPORTS. BRANCH CIRCUIT CONDUIT 3/4" AND SMALLER MAY BE SUPPORTED USING SPRING STEEL CLIPS ON STEEL SUPPORT WIRE INSTALLED INDEPENDENT OF CEILING SUPPORTS.

FINAL LOCATION OF SURFACE FEATURES: SHALL BE ACCOMPLISHED IN THE FIELD, SUBJECT TO THE APPROVAL OF THE ARCHITECT. THE LOCATION OF ALL SWITCHES, FIXTURES, PANELS, ETC., AND THEIR PROXIMITY AND RELATIONSHIP TO ALL VISIBLE FEATURES OF EQUIPMENT FURNISHED BY OTHER TRADES, SHALL BE MADE KNOWN TO THE ARCHITECT. IN CASE OF CONFLICT BETWEEN TRADES, OR BETWEEN A TRADE AND THE ARCHITECT, THE DECISION OF THE ARCHITECT SHALL BE FINAL AND HIS INSTRUCTIONS IN THESE MATTERS SHALL BE FOLLOWED BY

STANDARD OF MATERIAL AND WORKMANSHIP: ALL MATERIALS SHALL BE NEW AND SHALL CONFORM TO UL STANDARDS IN EVERY CASE WHERE SUCH A STANDARD HAS BEEN ESTABLISHED AND SHALL BEAR THE UL LABEL. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE BEST ACCEPTED STANDARDS OF GOOD WORKMANSHIP AND SHALL PRESENT A NEAT APPEARANCE WHEN COMPLETE.

ALL CUTTING NECESSARY FOR INSTALLATION OF THE WORK AND REPAIR OF ALL DAMAGE TO WORK UNDER OTHER DIVISIONS, SHALL BE INCLUDED IN WORK SPECIFIED UNDER THIS DIVISION INCLUDING PATCHING, FLASHING AND SEALING ALL ROOF PENETRATIONS. NO CUTTING

COORDINATE WORK WITH THAT OF OTHER TRADES. CUTTING, PATCHING, AND PROVIDING ANY OPENINGS, LINTEL, OR SUPPORTS REQUIRED FOR INSTALLATION OF THE WORK SHALL BE INCLUDED IN THIS DIVISION.

ALL EXPOSED ELECTRICAL EQUIPMENT, CONDUIT, FLUSH PANEL FRONTS, TRANSFORMERS, SWITCHES, SWITCHBOARDS, PANELS AND SIMILAR ITEMS SHALL BE PAINTED AS SPECIFIED UNDER THE PAINTING SECTION OF ARCH. SPECIFICATIONS.

SUPERVISE ALL PAINTING OF ELECTRICAL EQUIPMENT.

EXISTING SERVICES AND REMODEL AREAS:

MAINTAIN ALL SERVICES. POWER, SOUND, TELEPHONE, ETC., TO EXISTING BUILDINGS OR AREAS. ANY INTERRUPTIONS OF SERVICES REQUIRED FOR "CUT-OVERS" OR CONNECTIONS OF NEW, ETC., SHALL BE DONE AT A TIME THAT IS CONVENIENT TO THE OWNER AND SHALL BE APPROVED IN WRITING PRIOR TO THE INTERRUPTION.

ALL SERVICES TO EXISTING BUILDINGS THAT ARE INTERRUPTED OR DISCONNECTED AS A RESULT OF THE NEW CONSTRUCTION SHALL BE RESTORED. ANY OUTLET, SWITCHES, RECEPTACLES, ETC. THAT ARE DISCONNECTED OR REMOVED BY THE CONSTRUCTION OR REMODELING SHALL BE RECONNECTED AND/OR REPLACED.

WORK BY OTHERS: CERTAIN ITEMS OF WORK BY OTHER TRADES WILL BE NECESSARY FOR THE COMPLETION OF WORK UNDER THIS DIVISION. COOPERATE WITH OTHER TRADES AND ARRANGE FOR THESE ITEMS TO BE PERFORMED IN ORDERLY COURSE OF WORK. FAILURE TO COOPERATE SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR SAID ITEMS.

CLEANING UP THE PREMISES: AT ALL TIMES KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIAL OR RUBBISH. METAL FLOOR PANS SHALL BE PROVIDED FOR PIPE THREADING MACHINES AND BENCHES AND SHALL BE USED AT ALL TIMES TO PREVENT CONCRETE FLOORS FROM BECOMING OIL SOAKED. UPON COMPLETION OF THE JOB, REMOVE ALL DEBRIS, CLEAN ALL SWITCHPLATES, FIXTURES, PANEL TRIMS AND IN GENERAL, LEAVE THE PREMISES IN A CLEAN AND TIDY CONDITION.

FINAL INSPECTION AND TEST:

FURNISH ALL METERS, CABLE, CONNECTIONS AND APPARATUS NECESSARY FOR MAKING TESTS.

TEST SYSTEM FOR SHORTS AND GROUNDS. FAULTY WIRING SHALL BE REMOVED AND REPLACED. ANY DEVICE, APPARATUS OR FIXTURE INSTALLED SHOWING SUBSTANDARD PERFORMANCE SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE ARCHITECT.

GUARANTEE: FULLY GUARANTEE ALL WORK UNDER THIS DIVISION FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER, AGAINST IMPERFECT WORKMANSHIP OR FAILURE/MALFUNCTION OF MATERIALS AND/OR EQUIPMENT DUE TO FAULTY OR IMPERFECT WORKMANSHIP. GIVE THIS GUARANTEE IN WRITING TO THE OWNER AT THE TIME OF ISSUING FINAL CERTIFICATE. WORK FOUND TO BE DEFECTIVE WITHIN THIS PERIOD SHALL BE REPLACED WITHOUT COST TO THE OWNER.

2 BASIC MATERIALS AND METHODS:

WIRE AND CABLE:

GENERAL: ALL CONDUCTORS SHALL BE COPPER.

ALL INTERIOR BRANCH WIRING SHALL BE TYPE "THW-2", "THHN-2" OR "THWN-2", 600 VOLT AND A MINIMUM OF #12 EXCEPT FOR CONTROL WIRING WHICH SHALL BE STRANDED AND A MINIMUM OF #14.

WIRE #8 AND LARGER SHALL BE STRANDED. WIRE #2 AND LARGER, OR AS NOTED, SHALL BE TYPE "XHHW-2" WITH CROSS LINK POLYETHYLENE

MANUFACTURERS SHALL BE GENERAL CABLE, OKONITE, ROME CABLE, ANACONDA, GENERAL ELECTRIC, KAISER OR SOUTH-WIRE.

INSTALLATION: INSTALL ALL WIRE AND CABLE IN CONDUIT.

WIRE SINGLE PHASE EQUIPMENT AND LIGHTING SO THERE IS A MINIMUM OF IMBALANCE BETWEEN CURRENT CARRYING CONDUCTORS. CONDUCTORS SHALL BE CONTINUOUS AND OF SUCH LENGTHS THAT NO SPLICE OCCURS EXCEPT WITHIN OUTLET, JUNCTION OR PULL-BOXES, SWITCH, CONDUIT FITTINGS, OR OTHER SIMILAR DEVICES IN EQUIPMENT. SPLICES SHALL JOIN CONDUCTORS SECURELY TOGETHER BOTH MECHANICALLY AND ELECTRICALLY.

MAKE CONNECTIONS AND SPLICES FOR #10 WIRE AND SMALLER WITH BUCHANAN B-CAP, 3-M SCOTCHLOK OR IDEAL WING-NUT, PRE- INSULATED WIRE CONNECTORS (SIZES AS RECOMMENDED BY MANUFACTURER). MAKE CONNECTIONS AND SPLICES FOR #8 COMPRESSION TYPE CONNECTORS BY O.Z., BURNDY, BUCHANAN, T & B OR ILSCO. TAPE ALL SPLICES WITH PLASTIC SO INSULATION IS AT LEAST EQUIVALENT TO INSULATION OF CONDUCTORS. THOROUGHLY CLEAN ENDS BEFORE SPLICING. WHERE PLASTIC TAPE IS USED AND THERE IS ANY DANGER OF INSULATION DAMAGE FROM PRESSURE OR JOINT AGAINST NON-CURRENT CARRYING METAL PARTS, USE FRICTION TAPE FOR ADDITIONAL

ALL WIRING IN PANELBOARDS, CENTERS AND GUTTERS SHALL BE NEATLY ARRANGED. WIRE SHALL BE HELD BUNDLED BY TY-RAPS. WIRES SHALL BE CONNECTED TO CIRCUIT BREAKERS, SWITCHES AND OTHER DEVICES PERPENDICULAR TO TERMINAL LUGS.

LIGHTING AND POWER CIRCUITS SHALL BE IDENTIFIED BY PANEL LETTER AND CIRCUIT NUMBER WITH BRADY WRAPAROUND CLOTH WIRE MARKERS AT ALL TERMINATIONS AND JUNCTIONS.

ALL BRANCH CIRCUIT AND FEEDER CONDUCTORS SHALL BE COLOR- CODED TO CONFORM TO THE EXISTING COLOR CODES.

SOLID CONDUCTORS SHALL LOOP TIGHTLY AND COMPLETELY AROUND TERMINAL SCREWS ON ALL WIRING DEVICES.

CONDUIT RACEWAYS:

CONDUIT SYSTEMS SHALL BE RIGID GALVANIZED METAL, INTERMEDIATE METAL CONDUIT (IMC), ELECTRICAL METALLIC TUBING (EMT), RIGID, NON-METALLIC PVC OR AS SPECIFIED HEREIN OR AS INDICATED ON THE PLANS. ALL SYSTEMS SHALL BE CONTINUOUS.

RIGID STEEL CONDUIT SHALL BE HEAVY-WALLED, HOT-DIPPED, GALVANIZED OR SHERARIZED. USE RIGID STEEL CONDUIT IN CONCRETE SLABS IN GRADE, IN EXPOSED LOCATIONS SUCH AS TUNNELS AND EQUIPMENT ROOMS, WHERE EXPOSED TO WEATHER AND WHERE BURIED IN EARTH.

IMC SHALL BE ZINC COATED STEEL TUBING. IMC MAY BE USED WHERE RIGID STEEL IS PERMITTED.

EMT SHALL BE ZINC-COATED. EMT MAY BE USED IN FURRED SPACES, IN METAL OR WOOD STUD WALLS IN EITHER EXPOSED OR CONCEALED FASHION AND WHERE NOT SUBJECT TO DAMAGE EXCEPT FOR BRANCH CIRCUITS AND FEEDERS OVER 100A. EMT SHALL BE REAMED AFTER CUTTING AND SHALL BE MADE TO BUTT IN THE CENTER OF THE COUPLING.

FLEXIBLE CONDUIT SHALL BE USED IN MINIMUM LENGTHS TO CONNECT TO MOTORS, RECESSED FIXTURES, TRANSFORMERS AND EQUIPMENT SUBJECT TO VIBRATION. IN EXTERIOR AND WET LOCATIONS, USE ANACONDA TYPE VA FLEXIBLE CONDUIT WITH APPLETON OR T & B WATER TIGHT CONNECTORS. FLEXIBLE CONDUIT CONNECTORS SHALL BE COMPRESSION OR CLAMP TYPE; SCREW ON TYPE NOT PERMITTED.

WHERE EXPOSED, INSTALL CONDUIT PARALLEL TO WALLS AND PARTITIONS; DO NOT CROSS WINDOW OPENINGS.

WHERE SUSPENDED CEILING OCCURS, RUN CONDUIT CONCEALED ABOVE FURRED CEILING AND IN WALLS.

ALL CONDUIT STUBBED-UP THROUGH ROOF SHALL BE FLASHED WITH A TYPE OF FLASHING APPROVED BY MANUFACTURER OF ROOFING MATERIALS AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

CONDUIT SHALL BE FIRMLY FASTENED WITHIN 3 FEET OF EACH OUTLET BOX, JUNCTION BOX, CABINET OR FITTING AND SHALL BE SUPPORTED AT LEAST EVERY 10 FEET.

CONDUIT FITTINGS:

EMT OR THREADLESS RIGID SHALL BE COMPRESSION TYPE, MACHINE STEEL INSULATED THROAT, APPLETON, RACO, T & B, OR TOMIC INSULATED TAP-ON. SET SCREW FITTINGS WILL BE PERMITTED IN DRY LOCATIONS WHEN TWO SCREWS PER CONDUIT END ARE PROVIDED. SINGLE SET SCREWS SHALL BE PERMITTED IN 1/2" AND 3/4" SIZES.

PROVIDE DOUBLE LOCKNUTS AND BUSHINGS AT ALL RIGID CONDUIT TERMINATIONS EXCEPT AT THREADED HUBS. BUSHINGS SHALL BE O.Z. TYPE A, MOLDED BAKELITE EXCEPT FOR 2" CONDUIT AND LARGER SHALL BE O.Z. TYPE B OR BL WHERE GROUNDING IS REQUIRED.

GUTTER, PULLBOXES AND JUNCTION BOXES:

BOXES SHALL BE FABRICATED FROM CODE GAUGE STEEL WITHOUT KNOCKOUTS AND A MINIMUM 14 GAUGE FRONT COVER. FINISH SHALL BE GALVANIZED STEEL OR PHOSPHATE UNDERCOATING WITH 2 FINISH COATS; HAMMER GRAY OR BAKED ENAMEL.

JUNCTION BOXES SHOWN OUTSIDE, FLUSH OR SURFACE MOUNTED, SHALL BE WATER TIGHT, ALL WELDED CONSTRUCTION WITH NEOPRENE GASKETED SCREWED COVERS, NEMA TYPE III.

NAMEPLATES:

PROVIDE CONTRAST PLASTIC EMBOSSING TAPE, ADHESIVE BACKED NAMEPLATES FOR ALL STARTERS AND DISCONNECT SWITCHES.PROVIDE LAMICOID NAMEPLATES FOR ALL DISTRIBUTION SWITCHES, BREAKERS, LIGHTING AND POWER PANELS; SIZE OF LETTERS SHALL BE A MINIMUM OF 3/16" HIGH.

FUSES:

FUSES SHALL BE HIGH-CAPACITY, CURRENT-LIMITING, LOW-PEAK OR DUAL ELEMENT AS INDICATED.

DUAL-ELEMENT FUSES SHALL BE USED FOR ALL MOTOR LOADS.

TYPE "R" FUSE SHALL BE USED FOR MOTOR LOADS AND WHERE INDICATED ON DRAWINGS.

FURNISH TO THE OWNER AT EACH SWITCHBOARD, 2 SETS OF SPARE FUSES FOR EACH SIZE USED BELOW 100 AMPS AND ONE SET FOR EACH SIZE 100 AMPS AND ABOVE.

ALL FUSES SHALL BE BY THE SAME MANUFACTURER.

OUTLETS:

OUTLET BOXES SHALL BE STANDARD GALVANIZED STEEL TYPE MINIMUM 1.5" DEEP, SINGLE OR GANG STYLE, OF SIZE TO ACCOMMODATE DEVICE NOTED AND INSTALLED IN ACCORDANCE WITH ARTICLE 370 OF THE NEC. HANDY BOXES AND SECTIONAL SWITCH BOXES WILL NOT BE

BOXES SHALL BE SECURELY AND RIGIDLY FASTENED TO THE STRUCTURE UPON WHICH THEY ARE MOUNTED OR SECURELY AND RIGIDLY EMBEDDED IN CONCRETE OR MASONRY.

PROVIDE FIXTURE STUDS AND PLASTER RINGS AS REQUIRED TO BRING ALL OUTLETS TO WITHIN 1/8" OR LESS OF FINISHED SURFACE.

BOXES EXPOSED OUTDOORS SHALL BE CAST FERROUS ALLOY, TYPE FS UNILETS WITH SCREW HUBS OR EQUAL.

APPROVED MANUFACTURERS ARE: APPLETON, RACO, STEEL CITY OR BOWERS.

LIGHT SWITCHES: (COLOR SELECTION BY ARCH.)

HUBBELL #1221-I 20A SINGLE POLE HUBBELL #1223-I 20A THREE WAY

MANUFACTURERS SHALL BE HUBBELL, BRYANT OR SIERRA.

RECEPTACLES:

HUBBELL #5362-I 20A/125V/DUPLEX OR #5242 MOUNT WITH GROUND "U" SLOT DOWN FOR ISOLATED GROUND - HUBBELL #IG8300 (ORANGE)

FINISH WALL PLATES:

PLATES SHALL BE SMOOTH PLASTIC TO MATCH RECEPTACLE AND OF ONE MANUFACTURER; BRYANT, SIERRA OR APPROVED EQUAL COLORS/FINISHES MUST BE SELECTED BY ARCH.

PROVIDE STAINLESS STEEL PLATES IN FOOD PREP AREAS.

DEVICE PLATES SHALL BE INSTALLED SO AS TO COMPLETELY SEAT AGAINST THE WALL SURFACE

3 SERVICE AND DISTRIBUTION:

PANELBOARDS:

ELECTRICAL PANELS SHALL BE CIRCUIT BREAKER TYPE. CABINETS SHALL HAVE DOORS FASTENED TO TRIM WITH CONCEALED HINGES AND BE PROVIDED WITH FLUSH TYPE COMBINATION LATCH AND LOCK; THREE KEYS FOR EACH. ALL PANELS SHALL BE KEYED ALIKE. CABINETS AND TRIMS SHALL BE FACTORY PAINTED TWO FINISH COATS AND SHALL BE FLUSH OR SURFACE MOUNTED AS INDICATED. EACH CIRCUIT SHALL BE NUMBERED AND COMPLETELY IDENTIFIED BY MEANS OF A TYPEWRITTEN CARD PLACED IN DIRECTORY HOLDER ON INSIDE OF DOOR. ALL DIRECTORY HOLDERS SHALL BE SIX (6) INCHES WIDE. BEFORE INSTALLING, TIGHTEN ALL BOLTED CONNECTIONS THAT MAY HAVE BECOME

CABINETS SHALL BE WITHOUT KNOCKOUTS. ALL KNOCKOUTS SHALL BE CUT ON THE JOB.

STUB UP ON 3/4" CONDUIT INTO THE FURRED SPACE ABOVE FLUSH MOUNTED CABINETS FOR EACH TWO SPARE CIRCUITS OR SPACES; TO A

ALL PANELS SHALL BE EQUIPPED WITH COPPER GROUND BUS.

ALL PANELBOARDS SHALL HAVE THE SIZE OF THE FEEDER AND CONDUIT STENCILED ON THE INSIDE OF THE DOOR. "DYMO" TAPE OR **EQUIVALENT IS NOT ACCEPTABLE**

SAFETY (DISCONNECT) SWITCHES:

SHALL BE HEAVY DUTY TYPE WITH COVER INTERLOCKS. PROVIDE ALL DISCONNECT SWITCHES REQUIRED BY CODE. SWITCHES FOR MOTOR APPLICATIONS SHALL BE HORSEPOWER RATED.

SWITCHES LOCATED OUTSIDE/EXTERIOR OF THE BUILDING SHALL HAVE NEMA TYPE 3R ENCLOSURES.

FURNISH AND INSTALL THE PROPER SIZE FUSES (DETERMINED FROM FULL LOAD NAMEPLATE READINGS ON MOTORS AND COMPENSATED FOR AMBIENT TEMPERATURE) IN ALL SAFETY SWITCHES WHETHER THEY BE FURNISHED BY THIS CONTRACTOR OR OTHERS.

MOTOR WIRING:

ALL MOTORS WILL BE FURNISHED AND SET IN PLACE BY TRADE FURNISHING THE DRIVEN EQUIPMENT. FURNISH AND INSTALL ALL CONDUIT WIRING, CIRCUIT PROTECTIVE DEVICES, SWITCHES AND SUCH OTHER APPURTENANCES NECESSARY TO COMPLETE CONNECTION OF ALL MOTORS AND CONTROLS. THIS SHALL INCLUDE THE HIGH AND LOW VOLTAGE CONTROL WIRING. MOTORS AND CONTROLS FOR MECHANICAL EQUIPMENT SHALL BE WIRED IN ACCORDANCE WITH MANUFACTURER'S WIRING DIAGRAMS.

CONNECTIONS TO MOTOR STARTERS AND CONTROLS SHALL BE MADE WITH CONDUIT. FINAL CONNECTIONS TO MOTORS ON ADJUSTABLE BASES OR MOTORS SUBJECT TO EXCESSIVE VIBRATION SHALL BE MADE WITH FLEXIBLE CONDUIT, EXCEPT FOR OUTDOOR INSTALLATION IN WHICH CASE SEAL-TITE NEOPRENE COVERED FLEXIBLE CONDUIT WITH SEAL-TITE FITTINGS OR TYPE "SO" CORD WITH RUBBER GLAND WATER-TITE CORD GRIPS SHALL BE USED, BUT ONLY TO THE EXTENT OF MINIMUM LENGTHS REQUIRED FOR A CASE GROUND. REFER TO AIR CONDITIONING SECTION FOR SPECIFIC CONTROLS, SWITCHES, THERMOSTATS, ETC., FURNISHED FOR INSTALLATION UNDER THIS DIVISION.

VERIFY HORSEPOWER RATINGS AND FULL LOAD CURRENTS OF MOTORS BEING SUPPLIED BY OTHER TRADES. ANY DISCREPANCY BETWEEN ACTUAL FULL LOAD CURRENTS OF MOTORS DELIVERED TO THE JOB SITE AND STANDARD FULL LOAD CURRENTS OF SINGLE PHASE AND THREE PHASE SQUIRREL CAGE INDUCTION MOTORS, (HORSEPOWER RATING AS LISTED) SHALL BE REPORTED TO THE ARCHITECT FOR CORRECTION AND DECISION BEFORE ANY AFFECTED WORK IS DONE.

THE NEUTRAL CONDUCTORS AND ALL OTHER EXPOSED NON CURRENT CARRYING METAL PARTS AS REQUIRED BY CODE SHALL BE GROUNDED. GROUNDING BUSHINGS SHALL BE USED AS REQUIRED AND SHALL BE O.Z. INSULATED TYPE BL OR APPROVED EQUAL. GAS PIPING SHALL BE BONDED PER 250.104(B). WHERE EQUIPMENT OR DEVICES ARE SERVED BY NON-METALLIC DUCTS, ENCLOSURES SHALL BE GROUNDED BY MEANS OF A CODE SIZE BARE OR GREEN INSULATED EQUIPMENT GROUND WIRE INSTALLED IN THE DUCT WITH THE CURRENT CARRYING CONDUCTORS AND BE BONDED SECURELY IN EACH CABINET TERMINATING THE GROUND WIRE. COPPER JUMPERS SHALL BRIDGE FLEXIBLE CONDUIT AND BE INSTALLED IN THE CONDUIT. ALL SERVICE GROUNDS SHALL BE IN ACCORDANCE WITH THE UFER GROUND.

LAMPS:

LIGHTING FIXTURES:

FIXTURES SHALL BE FURNISHED COMPLETE WITH DRIVERS OF PROPER WATTAGE AND BE UL LISTED IN ACCORDANCE WITH LIGHTING FIXTURE SCHEDULE. PROVIDE ALL FITTINGS, HANGERS, SUPPORTS, PLASTER FRAMES AND OTHER NECESSARY APPURTENANCE. FIXTURES SHOWN IN FIXTURE SCHEDULE WITH SAME LETTER DESIGNATION SHALL BE OF ONE MANUFACTURER AND BE IDENTICAL IN DESIGN AND APPEARANCE.

ALL LED COMPONENTS TO BE UL 8750 RECOGNIZED OR LISTED AS APPLICABLE, AND TESTED IN ACCORDANCE WITH IES LM-79 AND IES LM-80. LED ESTIMATED USEFUL LIFE SHALL BE MINIMUM 50,000 HOURS AT 70% LUMEN MAINTENANCE.

FIXTURE MANUFACTURER SHALL PROVIDED THE PROPER DRIVER WITH THE FIXTURE TO PERMIT CONTINUOUS OPERATION WITHIN THE TEMPERATURE CONDITION OF THE INSTALLED LOCATION.

VERIFY THE TYPE AND CONSTRUCTION OF ALL CEILINGS BEFORE SUBMITTING SHOP DRAWINGS OR ORDERING FIXTURES TO DETERMINE COMPATIBILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE CEILING SUPPLIER AND MODIFICATION NECESSARY

FOR PROPER INSTALLATION OF THE FIXTURES WITHIN OR ON THE CEILINGS

LED BOARDS AND INCANDESCENT LAMPS SHALL BE MINIMUM 80 CRI AND 3500K CCT U.N.O. SPECIFIED ON THE LIGHTING FIXTURE SCHEDULE. ALL LED BOARDS AND INCANDESCENT LAMPS SHALL BE 130 VOLTS U.N.O SPECIFIED ON THE LIGHTING FIXTURE SCHEDULE.

APPROVED MANUFACTURERS ARE: GENERAL ELECTRIC, SYLVANIA, PHILLIPS, COOPER, OR ACUITY.

LIGHTING FIXTURE INSTALLATION:

FIXTURES SHALL BE WIRED COMPLETE WITH COLOR-CODED WIRES TO INDICATED POLARITY. WHITE FIXTURE WIRE SHALL BE CONNECTED TO THE SHELL TERMINALS OF SOCKETS AND CONNECTED TO THE NEUTRAL WIRE OF THE LIGHTING SYSTEM.

INSTALL AND CONNECT LIGHTING FIXTURES ON ALL DESIGNATED OUTLETS IN BUILDING. NON-DESIGNATED OUTLETS SHALL BE EQUIPPED WITH FIXTURES SIMILAR TO LIKE AREAS.

ALL FIXTURES SHALL BE TESTED BEFORE AND AFTER INSTALLATION AND SHALL SHOW FREE OF GROUNDS, SHORTS, ETC.

ALL FIXTURES AND FIXTURE SUPPORTS SHALL BE CLEANED, PAINTED WHERE NECESSARY AND LEFT IN FIRST CLASS OPERATING CONDITION UPON COMPLETION OF THE WORK. THIS CONTRACTOR SHALL MAKE GOOD ALL BREAKAGE OF LAMPS, GLASS AND FIXTURE BOWLS OR OTHER DAMAGE OR ARRANGE FOR REPLACEMENT WITH THE ARCHITECT.

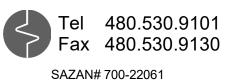
ALL FIXTURES SHALL BE PROPERLY SUPPORTED FROM CEILING STRUCTURE.

COMPLETE THE CONNECTION OF ALL FIXTURES TO THE BUILDING WIRING AT THE OUTLET FOR FIXTURES.

ALL LED FIXTURES RECESSED IN THE CEILING OR IN A GRID CEILING SHALL BE PROVIDED WITH EARTHQUAKE CLIPS.

END OF DIVISION





ART PROJECT NO.

CONSTRUCTION

Revision Schedule

No. Date Description

DOCUMENTS



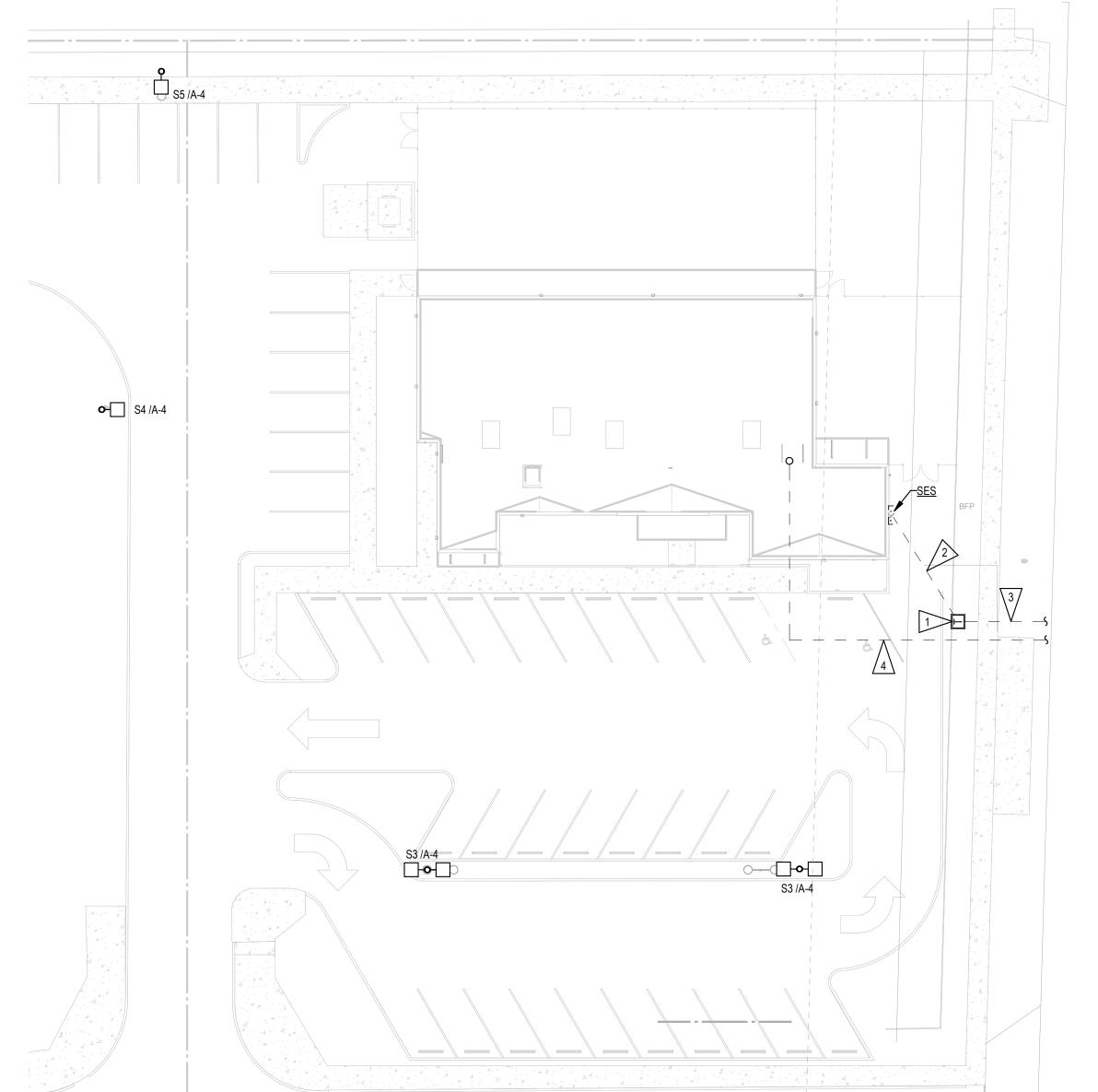
22025

04.21.2023

NOTE: THE POLE MANUFACTURER SHALL PROVIDE AN ENGINEERED POLE BASE DESIGN FOR 100 MPH WIND LOADING WITH A 1.3 GUST FACTOR. THE POLE BASE DESIGN SHALL BE FROM A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF ARIZONA. THE STRUCTURAL ENGINEER SHALL VERIFY THE WIND LOADING AND GUST FACTOR CRITERIA ABOVE ARE ADEQUATE FOR THE AREA OF INSTALLATION.

LIGHT POLE BASE DETAIL

SCALE: NTS



1 ELECTRICAL - SITE PLAN
1" = 20'-0"

ELECTRICAL SITE SHEET NOTES

- A. COORDINATE ALL UTILITY WORK WITH FINAL SALT RIVER PROJECT (SRP) REQUIREMENTS DRAWINGS.
- B. COORDINATE ALL PROPOSED PRIMARY AND SECONDARY SERVICE FEEDER CONDUIT ROUTINGS AND LOCATIONS WITH POWER COMPANY. VERIFY ALL REQUIREMENTS AND COMPLY AS DIRECTED.
- C. SEE POWER COMPANY PLANS FOR REQUIRED TRANSFORMER(S), PULLING ENCLOSURES, SWITCHING CABINETS,
 CAPACITOR BANKS AND PRIMARY CONDUIT ROUTING. E.C. TO COMPLY WITH ALL POWER COMPANY REQUIREMENTS.
- D. SEE SPECIFICATIONS FOR SRP CONTRACT INFORMATION.
- E. PRIOR TO TRENCHING IN ANY AREA, THE ELECTRICAL CONTRACTOR SHALL CONTACT ELECTRICAL, GAS, CABLE TV, COMMUNICATIONS, AND WATER AND HAVE ALL UTILITIES IN THE AREA IDENTIFIED. DAMAGE TO ANY UNDERGROUND STRUCTURE SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE PROJECT.
- F. ELECTRICAL CONTRACTOR SHALL PERFORM A MANDREL TEST OF ALL UNDERGROUND CONDUITS. THE MANDREL MUST PULL THROUGH THE ENTIRE LENGTH OF EACH CONDUIT TO PASS THE TEST. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL UNDERGROUND CONDUIT REPAIR REQUIRED TO PASS THE MANDREL TEST. PROVIDE WRITTEN DOCUMENTATION OF SUCCESSFUL TEST FOR ALL RACEWAYS.
- G. SPLICING OF UNDERGROUND CIRCUITS IS NOT PERMITTED, UNLESS APPROVED BY ENGINEER PRIOR TO INSTALLATION.
- H. NUMBER OF BENDS IN A SINGLE CONDUIT RUN SHALL NOT EXCEED THE EQUIVALENT OF 4 QUARTER BENDS BETWEEN PULL POINTS. INSTALL CONCRETE FLUSH ON GRADE PULL BOXES AS REQUIRED BY NEC.
- I. ALL UNDERGROUND CABLE, PIPE, AND CONDUITS SHALL BE DETECTIBLE (METALLIC) OR HAVE A DETECTIBLE UNDERGROUND LOCATION DEVICE INSTALLED WITH IT. THE RECOMMENCED DETECTIBLE UNDERGROUND LOCATION DEVICE IS A #12 OR LARGER COPPER TRACER WIRE SECURELY ATTACHED TO THE NON-METALLIC CABLE, PIPE, OR CONDUIT AT 8' O.C. IT SHALL HAVE A 12" OF TRACER WIRE ACCESSIBLE ABOVE GRADE AT ANY ABOVE GRADE TERMINATION.
- J. ALL CONDUIT ROUTING AND STUB-UP LOCATIONS ARE SHOWN SCHEMATICALLY. CONTRACTOR SHALL FIELD VERIFY ALL WORK PRIOR TO ANY ROUGH-IN. COORDINATE ROUTING WITH NEW AND ANY EXISTING OBSTRUCTIONS. COORDINATE STUB-UP LOCATIONS WITH ACTUAL EQUIPMENT LOCATIONS IN FIELD.
- K. ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS, PARTITIONS, FLOORS, OR CEILINGS SHALL BE FIRE-STOPPED USING APPROVED METHODS TO MAINTAIN THE FIRE RESISTANCE RATING. FIRE RATED SEALANT MUST BE LISTED INTUMESCENT FIRE BARRIER CAULK OR PUTTY. SEALANT MUST BE SANDED AND PAINTED TO MATCH EXISTING SURFACE. TYPICAL FOR ALL FIRE RATED PENETRATIONS.
- L. ALL EXTERIOR LIGHT FIXTURES TO COMPLY WITH LOCAL NIGHT SKY ORDINANCE. SEE LIGHTING FIXTURE SCHEDULE ON SHEET E2.00.
- M. ALL NEW EXTERIOR LIGHTING AND POWER RECEPTACLES SHOWN ON THIS SHEET TO BE FED WITH #10 CU.
- N. ALL EXTERIOR ELECTRICAL EQUIPMENT TO BE HEAVY-DUTY RATED FOR WEATHER-PROOF/ NEMA-3R
- O. ALL FIXTURES INSTALLED OUTDOORS SHALL BE RATED FOR DAMP/WET LOCATIONS AS REQUIRED. THE CONTRACTOR SHALL COORDINATE DAMP/WET LOCATION RATING PER NEC ARTICLE 410-4. ALL INSTALLATIONS SHALL CONFORM TO NEC ARTICLE 410, ALL SUB ARTICLES.
- P. CONTRACTOR TO COORDINATE EXACT SITE LIGHTING FIXTURE LOCATIONS WITH LANDSCAPE DRAWINGS. ALL CONFLICTS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER AND ARCHITECT.
- Q. ALL TRANSFORMER BOXES, METER PANELS, AND ANY OTHER ELECTRIC EQUIPMENT NOT ABLE TO BE SCREENED BY LANDSCAPING OR WALLS SHALL BE PAINTED TO MATCH BUILDING COLOR OR AS DIRECTED BY ARCHITECT.
- R. NOT ALL UNDERGROUND FLUSH TO GRADE PULL BOXES ARE SHOWN ON THESE PLANS. EXACT SIZE, QUANTITY AND LOCATION OF PULL BOXES ARE TO BE DETERMINED BY CONTRACTOR BASED ON CEC REQUIREMENTS AND CONDUCTOR PULLING TENSION LIMITATIONS.

FLAG NOTES <#

- 1. PROPOSED PAD MOUNTED UTILITY TRANSFORMER. PROVIDE CONCRETE PAD AND MAINTAIN WORKING CLEARANCES PER ARIZONA PUBLIC SERVICES REQUIREMENTS.
- 2. (2) 4" CONDUITS FOR SECONDARY FEEDERS PER APS REQUIREMENTS.
- 3. PRIMARY FEEDERS PER APS REQUIREMENTS.
- 4. (1) 2" PVC CONDUIT FROM TELEPHONE/INTERNET UTILITY POINT OF SERVICE TO IT ROOM. COORDINATE EXACT STUB UP LOCATIONS WITH ARHICTECT/OWNER. VERIFY EXACT REQUIREMENTS WITH LOCAL UTILITY SERVICE PROVIDER.

Catholic Charities Westside Head Start - Tolle

CONSTRUCTION DOCUMENTS

Revision Schedule

No. Date Description

22025
04.21.2023

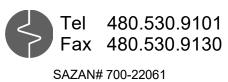
ART PROJECT NO.

DATE



SÄZÄN group

311 E. Veterans Way, Ste. 102 Tempe, AZ 85281



ELECTRICAL - SITE PLAN

E1.01

Symbol	Label	QTY	Manufacturer	Catalog	Description	Lamp	Number Lamps	Lamp Output	LLF	
	S1	11	ILP	SWP-3L-U-40-BRZ	ILP SLIM WALL PACK WITH DARK BRONZE FINISH, MOUNTED AT HEIGHTS PER ELEVATIONS	4000K LED	1	3310	0.91	
	S2	4	LUMINAIRE LED	VPF4 4FT MIN10 25W 40K MVOLT OP FINISH	4' VANDAL RESISTANT LINEAR WET LOCATION LUMINAIRE WITH HIGH IMPACT POLYCARBONATE LENS AND 50 C AMBIENT TEMP RATING	4000K LED	168	17	0.91	
	S2A	2	LUMINAIRE LED	VPF4 2FT MIN10 20W 40K MVOLT OP FINISH	2' VANDAL RESISTANT LINEAR WET LOCATION LUMINAIRE WITH HIGH IMPACT POLYCARBONATE LENS AND 50 C AMBIENT TEMP RATING	4000K LED	1	2303	0.91	
	S3	2	LITHONIA	TWIN HEAD-DSX0 LED P3 40K 70CRI T5W MVOLT SPA FINISH / SSS 12.5' W/ 2.5' BASE	TWIN HEAD-D SERIES SIZE 0 AREA LUMINAIRE WITH P3 PERFORMANCE PACKAGE AND TYPE 5 WIDE OPTIC, MOUNTED AT 15' AFG	4000K LED	1	9333	0.91	
	S4	1	LITHONIA	DSX0 LED P3 40K 70CRI T4M MVOLT SPA FINISH / SSS 12.5' W/ 2.5' BASE	D SERIES SIZE 0 AREA LUMINAIRE WITH P3 PERFORMANCE PACKAGE AND TYPE 4 MEDIUM OPTIC, MOUNTED AT 15' AFG	4000K LED	1	8926	0.91	
	S5	1	LITHONIA	DSX0 LED P3 40K 70CRI BLC4 MVOLT SPA FINISH / SSS 12.5' W/ 2.5' BASE	D SERIES SIZE 0 AREA LUMINAIRE WITH P3 PERFORMANCE PACKAGE AND TYPE 4 EXTREME BACK LIGHT CONTROL OPTIC, MOUNTED AT 15' AFG	4000K LED	1	6607	0.91	

Statistics						
Description	Symbol	Avg	Min	Max/Min	Avg/Min	Max
PL FC AFG	+	0.2 fc	0.0 fc	N/A	N/A	1.0 fc
SITE FC AFG	+	1.7 fc	0.0 fc	N/A	N/A	13.9 fc
PARKING AND DRIVES	\times	1.6 fc	0.0 fc	N/A	N/A	4.4 fc

PHOTMETRIC SITE PLAN

1" = 20'-0"

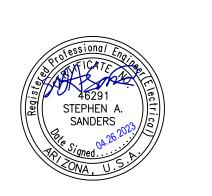
CONSTRUCTION DOCUMENTS

Revision Schedule

No. Date Description

22025
04.21.2023

ART PROJECT NO.
DATE



GROUP

311 E. Veterans Way, Ste. 102
Tempe, AZ 85281

DRAWING TITLE
PHOTOMETRIC
SITE PLAN

SAZAN# 700-22061

Tel 480.530.9101 Fax 480.530.9130

E1.02

Type: S1 Part Number: Project Name: SLIM WALL PACK
LED ADJUSTABLE WALL LED ADJUSTABLE WALL PACK 407-478-3759 **FEATURES** www.ilp-inc.com Low profile die-cast aluminum housing Bronze polyester powder coat finish (std.) Custom and factory select colors available¹ • Isolated optical compartment with tempered glass lens and silicone gaskets • 90° adjustable Type IV distribution or Optional IDA fixed model² • Quick mount bracket standard for easy surface mount installation • Three ½" coin plugs on sides for conduit or electronic photocell • 120–277V Universal Voltage or 347V–480V High Voltage³ Achieve code compliance with a fixed down PIR sensor with fully adjustable distribution aiming 0-10V Dimmable Driver (std.) • Deep box 10W CEC Title 20 compliant battery backup & cold weather battery¹ Optional Field Adjustable Output device (FAO) allows individual luminaire lumen output control • 3000K, 4000K & 5000K CCT Selectable via Integral selector >70 Color Rendering Index (CRI) • Calculated L₇₀ >100,000 hrs @ 25°C per TM-21-11 • IP65 Rated Luminaire 5 Year Warranty (std); 10 Year Warranty Optional Small Housing 2L - 3L ETL Listed for Wet Locations • DesignLights Consortium® Premium Qualified Luminaire Large Housing 5L-10L ¹Contact factory for pricing and availability ²Fixed 3000K CCT model only Shown with Sensor Box ³347–480V available in 5L, 8L, 10L Lumen Packages Only **SUITABLE APPLICATIONS** • Pedestrian Walkways • Building Entrances • Multi-use Facilities • Industrial Facilities • Parking Lots • Storage Facilities • Institutions Schools Loading Docks **ORDERING GUIDE:** U 120-277V CCTS Selectable CCT BRZ Bronze ☐ HV¹ 347-480V (5000K, 4000K, 3000K)
 □ BLK⁴
 Black

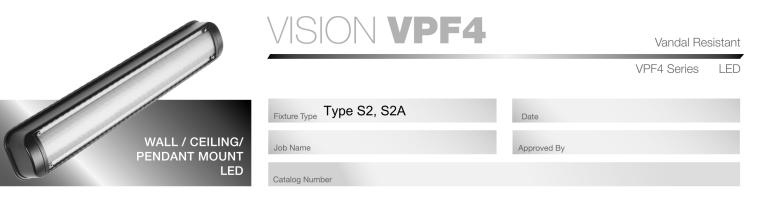
 □ 10YR^{7,8}
 10 Year
 WHT⁴ White Factory Installed Ship with Accessories

10kA Max Univolt Surge Protection SWP-FAO10V Field Adjustable Output via 0-10V Wires 22kA Max 120–277V Surge Protector SWP-ARM3-xxx Pole Mount Arm Kit, 3" long (xxx=BRZ, BLK, WHT, SLV) Dark Sky IDA Fixture Seal of Approval SWP-BPS-xxx 18x9 Beauty Plate Kit, Small (xxx=BRZ, BLK, WHT, SLV) LEDBB^{1,2} SWP-BPL-xxx 18x9 Beauty Plate Kit, Large (xxx=BRZ, BLK, WHT, SLV) 10W UNIV Battery Backup (32°–100°F) LEDBBCT^{1,2} 20W UNIV CT Battery Backup (-4°-122°F) Field Adjustable Output via 0-10V Wires Controls Electronic UNIV Photocell (120-277V) Bluetooth User Select Bi-Level Dim Occ. Sensor; USBD/Lx5,9 (x= Mounting height; 2=8', 3=20') ⁴Contact Factory for pricing and availablity ⁵ Does not qualify for DLC ⁸Requires additional surge protection (SP1,SP2, SP480V2); Fixed to 3000K CCT and no angle adjustability for
SP1/SP2 specified in combination with battery backups,
IDA Compliance. Must choose 30 CCT and IDA option to qualify separate surge protectors are required per electrical line
Requires bluetooth enabled device for programming (provided by others)

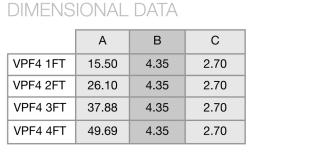
QUICK SHIP ITEMS:

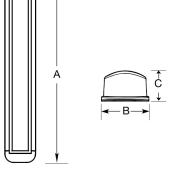
LUMENS DRIVER (5000K, 4000K, 3000K)

SWPSPEC0622



SPECIFICATIONS Description The Vision VPF4 series features an all aluminum, ligature resistant construction which allows it to be used in nearly any enviornmental condition. Designed in conjunction with an opthalmologist, the polycarbonate lens provides complete control of glare and LED image while maintaining the high efficiency of clear optical material. The Vision VPF4 series can be row mounted to any length. Natatorium finish is standard for all versions of this fixture. Marine grade heat treated extruded aluminum. Finished with Super Durable Corrosion Resistant powder coat (SDCR) that meets AAMA 2605 high performance specification, providing superior UV durability and corrosion resistance. Salt spray test: 4,000 hours. Extruded UV stabilized polycarbonate with integral prisms. Maximum wall thickness 0.160". Secured to housing with die cast aluminum clamps and stainless steel TORX® head screws. End Caps Die cast marine grade aluminum with conduit knockouts that are visible from interior of end cap. Dimming to 1%, 10% or Programable Lumen Output driver options. Non-Dimming Driver is also available. Samsung LM561B+ series @ 2700K, 3000K, 3500K, 4000K, or 5000K and 82 CRI wired in parallel-series. L₇₀ projected life of over 130,000 hours at 50°C. U.L., C.UL. Damp Location Listing standard, Wet Location Listing optional. **Buy American Act** Luminaire LED, LLC products are assembled in the USA. Our products meet the Buy America(n) government procurement requirements under FAR, DFARS, and DOT regulations. Please refer to www.acuitybrands.com/buy-american for additional information. Lifetime warranty against vandalism. Luminaire LED will repair or replace any fixture damaged due to vandalism for the lifetime of the installation. **10-year** warranty on LED boards against operational defects. Tested in accordance with LM-80. Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

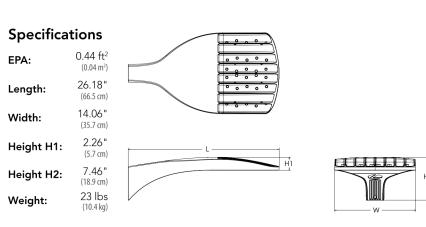


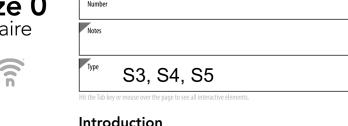


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LUMINAIRE-LED-VISION-VPF4-LED Page 1 of 5







The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications, with typical energy savings of 70% and expected service life of over 100,000 hours.

Order	ing Informa	tion	EXA	MPLE: DSX0 LED I	P6 40K 70CRI T3M	MVOLT SPA	NLTAIR2 PIRHN DDBX
DSX0 LED							
Series	LEDs	Color temperature ²	Color Rendering Index²	Distribution		Voltage	Mounting
P1 P5 30K 30 P2 P6 40K 40 P3 P7 50K 50 P4 (this secti extended apply) P11 P13 P13 27K 27 30K 30 35K 35 40K 40K		40K 4000K 50K 5000K (this section 80CRI only, extended lead times apply) 27K 2700K 30K 3000K 35K 3500K 40K 4000K	70CRI 70CRI 70CRI 80CRI 80CRI 80CRI 80CRI 80CRI 80CRI	AFR Automotive front row T1S Type I short T2M Type II medium T3M Type III medium T3LG Type III low glare ³ T4M Type IV medium T4LG Type IV low glare ³ TFTM Forward throw medium	T5M Type V medium T5LG Type V low glare T5W Type V wide BLC3 Type III backlight control 3 BLC4 Type IV backlight control 3 LCC0 Left corner cutoff 3 RCC0 Right corner cutoff 3	MVOLT (120V-277V) HVOLT (347V-480V) XVOLT (277V-480V)	SPA Square pole mounting
Control opti	ons				Other options		Finish (required)
NLTAIR2 PIRI	HN nLight AIR gen 2 er ambient sensor, 8- sensor enabled at 2		ordered FAO Field a	pin receptacle only (controls 1 separate) ^{14, 19} djustable output ^{15, 19} I switched dimming, 30% ^{16, 19}	Shipped installed HS Houseside shield (black fi L90 Left rotated optics 1 R90 Right rotated optics 1	nish standard) ²⁰	DDBXD Dark Bronze DBLXD Black DNAXD Natural Aluminum DWHXD White
PIR PER	height, ambient sen	mbient sensor, 8–40' mounting sor enabled at 2fc ^{13, 18, 19} receptacle only (controls ordered	DMG 0-10v	l switched dimming, 50% ^{16, 19} dimming wires pulled outside (for use with an external control.	CCE Coastal Construction 21 Shipped separately		DDBTXD Textured dark bronze DBLBXD Textured black
	separate) 14	, , ,		d separately) ¹⁷	EGSR External Glare Shield (reverguired, matches housing		DNATXD Textured natural aluminum
PER5	Five–pin receptacle (only (controls ordered separate) 14, 19			required, materies mousing	y minan <i>)</i>	DWHGXD Textured white

LITHONIA LIGHTING. COMMERCIAL OUTDOOR

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BSDB Bird Spikes (field install required)

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GROUP

311 E. Veterans Way, Ste. 102 Tempe, AZ 85281

Tel 480.530.9101 Fax 480.530.9130

SAZAN# 700-22061

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CONSTRUCTION **DOCUMENTS** Revision Schedule

No. Date Description

22025 04.21.2023



PHOTOMETRIC LIGHT FIXTURE CUT SHEETS

E1.03

COM*check* **Software Version 4.1.5.5** Interior Lighting Compliance Certificate

Project Information

Project Title: Catholic Charities Westside Head Start - Tolleson Project Type: **New Construction**

Construction Site: Owner/Agent: Designer/Contractor: 2504 S 91st Ave. S. Muniz Tolleson, AZ 85353 Sazan Group Inc. Tempe, AZ

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed Reduced Lighting Power, 1.0 credit **Allowed Interior Lighting Power**

	A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Wa (B X C)
1-School/University		4996	0.73	3642
			Total Allowed Watts =	= 3642

Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast

of Fixture (C X D) Fixture Fixtures Watt. 1-School/University LED 1: A1: Other: LED 2: L1: Other: LED 2 copy 1: L2: Other: 3294 Total Proposed Watts =

iterior Lighting PASSES: Design 10% better than code

Interior Lighting Compliance Statement Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory

requirements listed in the Inspection Checklist.

Project Title: Catholic Charities Westside Head Start - Tolleson Data filename: S:\Projects (Phoenix)\700-22061 Catholic Charities Tolleson\BIM\RVT\9 Schdls\Elec\700-22061.c Page 1 of 8

▲ COM*check* Software Version 4.1.5.5

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC Project Title: Catholic Charities Westside Head Start - Tolleson Project Type: New Construction Exterior Lighting Zone 2 (Residential mixed use area (LZ2))

Construction Site: 2504 S 91st Ave. Tolleson, AZ 85353

Designer/Contractor: S. Muniz Sazan Group Inc. Tempe, AZ

TYPE MARK

DESCRIPTION

LIGHTING CONTROL PANEL - 8 RELAY

DIGITAL TIMECLOCK

Allowed Exterior Lighting Power

Area/Surface Category	Quantity	Allowed Watts / Unit	Tradable Wattage	Allowed Watts (B X C)
Parking area	21692 ft2	0.04	Yes	868
Walkway < 10 feet wide	307 ft of	0.5	Yes	154
		Total Tradab	ole Watts (a) =	1021
		Total All	owed Watts =	1021
	Total All	lowed Supplemen	tal Watts (b) =	400

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces. (b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

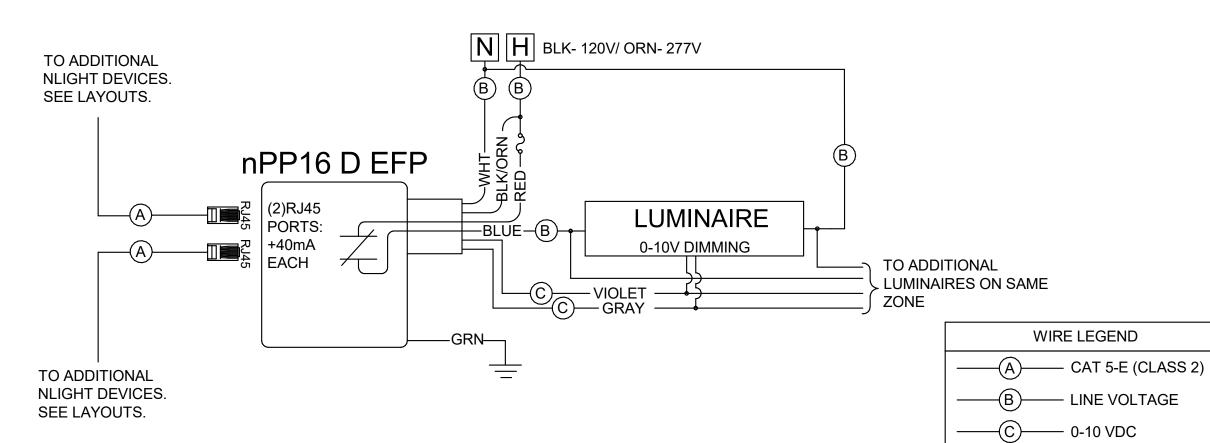
A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Parking area (21692 ft2): Tradable Wattage				
LED 1: S3: Other:	1	2	138	276
LED 1 copy 1: S4: Other:	1	1	69	69
LED 1 copy 2: S5: Other:	1	1	69	69
Walkway < 10 feet wide (307 ft of walkway length): Tradable Wattage				
LED 4: S1: Other:	1	12	20	240
LED 4 copy 1: S2/S2E: Other:	1	4	25	100
LED 4 copy 2: S2A: Other:	1	2	20	40
	Total Trac	dable Propos	ed Watts =	794

erior Lighting PASSES: Design 44% better than code

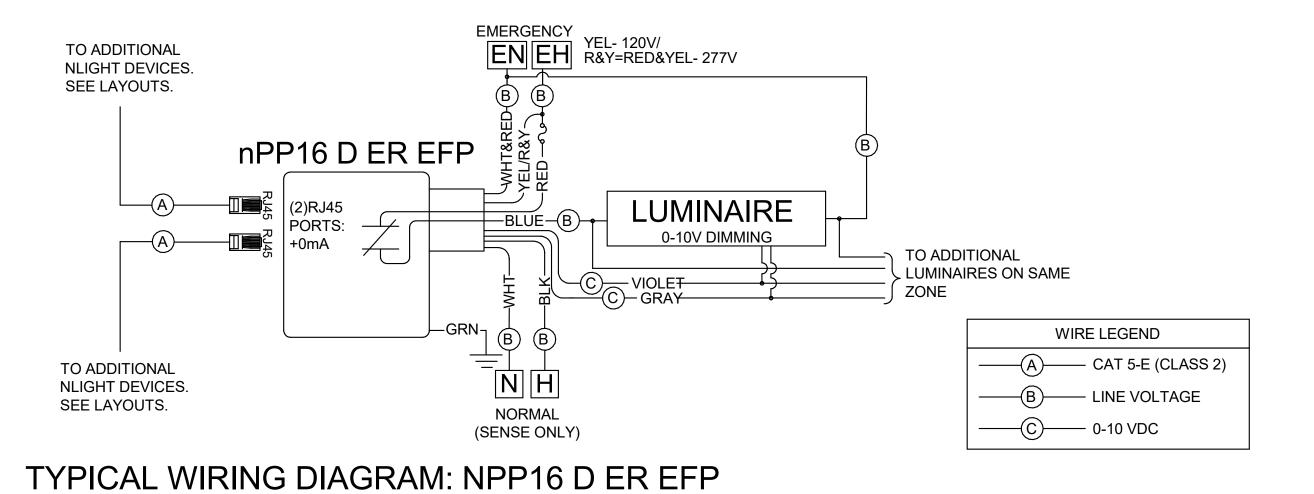
Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Project Title: Catholic Charities Westside Head Start - Tolleson Data filename: S:\Projects (Phoenix)\700-22061 Catholic Charities Tolleson\BIM\RVT\9 Schdls\Elec\700-22061.c Page 2 of 8



TYPICAL WIRING DIAGRAM: NPP16 D EFP



2'x4' LED PANEL LUMINAIRE RECESSED 51 W 120 V LITHONIA - CPX 2X4 AL08 SWW7 M2 2'x4' LED PANEL LUMINAIRE LITHONIA - CPX 2X4 AL08 SWW7 M2 RECESSED 51 W 120 V 4'-0" LINEAR LED LUMINAIRE MOUNTED OVER DOOR LITHONIA - CSS L48 AL03 MVOLT SWW3 80CRI SURFACE 44 W 120 V 4'-0" LINEAR LED LUMINAIRE SURFACE 44 W 120 V LITHONIA - CSS L48 AL03 MVOLT SWW3 80CRI ILP - SWP 3L U 40 BRZ WALL MOUNTED LINEAR LUMINAIRE WALL 20 W 120 V ILP - SWP 3L U 40 BRZ LEDBB WALL MOUNTED LINEAR LUMINAIRE 20 W 4'-0" LINEAR LED LUMINAIRE, VANDAL-RESISTANT 25 W LUMINAIRE LED - VPF4 4FT MIN10 25W 40K MVOLT OP BRZ 2'-0" LINEAR LED LUMINAIRE, VANDAL-RESISTANT SURFACE LUMINAIRE LED - VPF4 2FT MIN10 20W 40K MVOLT OP BRZ 120 V LUMINAIRE LED - VPF4 4FT MIN10 25W 40K MVOLT OP BRZ; 1200 LUMEN BATTERY BACK-UP SAME AS TYPE S2, BUT WITH 90-MINUTE EMERGENCY BATTERY | SURFACE EMB310 LITHONIA - DSX0 LED P3 40K 70CRI T5W MVOLT SPA DDBXD REFER TO POLE BASE DETAIL 2/E1.01. EXTERIOR POLE MOUNTED FULL CUTOFF LED AREA LUMINAIRE. EXTERIOR 2-LUMINAIRES, IES TYPE 5 WIDE DISTRIBUTION. POLE LITHONIA - DSX0 LED P3 40K 70CRI T4M MVOLT SPA DDBXD REFER TO POLE BASE DETAIL 2/E1.01. EXTERIOR POLE MOUNTED FULL CUTOFF LED AREA LUMINAIRE. EXTERIOR I-LUMINAIRE, IES TYPE 4 MEDIUM DISTRIBUTION POLE EXTERIOR POLE MOUNTED FULL CUTOFF LED AREA LUMINAIRE. EXTERIOR LITHONIA - DSX0 LED P3 40K 70CRI BLC4 MVOLT SPA DDBXD | REFER TO POLE BASE DETAIL 2/E1.01. LUMINAIRE, IES TYPE 4 BACKLIGHT CONTROL DISTRIBUTION POLE THERMOPLASTIC EXIT SIGN W/ RED LETTERS AND 90 MINUTE CEILING **EXITRONICS - ILXREMWH** BATTERY BACK-UP. LIGHTING CONTROL DEVICE SCHEDULE MANUFACTURER/MODEL DESIGNATION DEVICE DESCRIPTION BUTTONS **FUNCTION** nLIGHT - WSXA MWO PDT D WH ALL ON/HOLD DIM UP AUTO ON AT 100% / AUTO OFF ALL OFF/HOLD DIM DOWN nLIGHT - NPODMA WH ALL ON MOMENTARY 2-HR OVERRIDE ALL OFF nLIGHT - NPODMA DX WH ALL ON/HOLD DIM UP ALL OFF/HOLD DIM DOWN AUTO ON AT 100% / AUTO OFF CEILING MOUNTED OCCUPANCY SENSOR DUAL TECHNOLOGY PIR/ULTRA-SONIC DETECTION nLIGHT - NCM PDT 10 RJB 360 DEGREE LENS nLIGHT - ARPA PC OUTDOOR ON/OFF PHOTOCELL OUTDOOR PHOTOCELL LCP ACCESSORY nLIGHT - NPP16 D EFP 0-10V DIMMING FUNTION POWER/RELAY PACK SEE PLAN FOR LOCATIONS nLIGHT - NPP16 D ER EFP POWER/RELAY PACK 0-10V DIMMING FUNTION, UL924 EMERGENCY OPERATION SEE PLAN FOR LOCATIONS

nLIGHT - ARP INTENC08 NLT 8FCR

MVOLT 1VB SC SM

nLIGHT - NDTC WH

LUMINAIRE SCHEDULE

MANUFACTURER

REMARKS / ACCESSORIES / OPTIONS

LABEL

ON

OFF

ON /\

OFF V

ON

OFF

NOTES

MOUNTING | WATTAGE | VOLTAGE

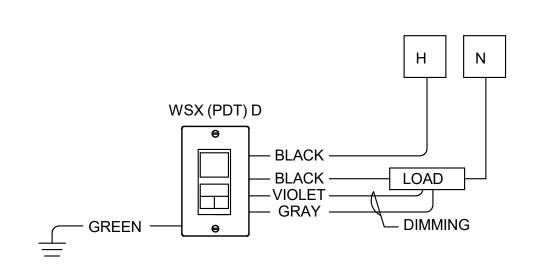
		M	1EC	HAN	NC/	\L E	QU	IPME	NT C	ONNE	CTION SCH	EDULE	<u>-</u>	
SCHEDULE I	NOTES:						ABB	REVIATION:			SCHEDU	ILE GENERAL NO	TES	
Ź) PROVIDE 3) PROVIDE 4) EXHAUST	FUSED DISCONNECT SWITCH. MOTOR-RATED SWITCH, WITH WP (MOTOR-RATED SWITCH AS DISCON FAN SHARES CIRCUIT WITH OTHER EATER SHARES CIRCUIT WITH OTH	NECT. R exhaus	ST FANS.				KY KY MO MO OF OF	OI: OWNER-F	DWER T-AMPERES TS CIRCUIT AM OVERCURF FURNISHED, FURNISHED, RPROOF		2) PROV CFM OR 3) ALL 1 BE GFC E DEVICE ED	IDE DUCT SMOKE MORE. COORDIN 20V, 15A AND 20A	E DETECTORS FO NATE WITH FIRE A N RECEPTACLES A	RATING / FUSE SIZE. OR ALL HVAC UNITS SUPPLYING 2,000 ALARM CONTRACTOR. AND/OR EQUIPMENT CIRCUITS SHALL IS NOTED OTERWISE/
NO.	EQUIPMENT DESCRIPTION	VA	HP	KW	KVA	MCA	МОСР	VOLTAGE	PHASES	CONDUIT SIZE	WIRE SIZE	DISC/FUSE/ POLES	CIRCUIT NUMBER	NOTES
ERV-01	ENERGY RECOVERY UNIT	3661	0	6.3	3.7	20.3	25 A	208	1	3/4"	2#10, 1#10 GND	30/25/2	A - 31,33	
EWH-1	ELECTRIC WATER HEATER	23993	0	24.0	24.0		80 A	208	3	1-1/4"	3 #2, 1 #8 GND	100/90/3	A - 25,27,29	
OU-1	OUTDOOR UNIT	2959	0	15.9	3.0	17.0	25 A	208	1	1"	3 #10, 1 #10 GND	30/25/3	A - 34,36	
RTU-01	ROOFTOP UNIT	11800	0	12.2	11.8	44.0	50 A	208	3	1"	3 #8, 1 #10 GND	60/40/3	A - 1,3,5	
RTU-02	ROOFTOP UNIT	11800		12.2	11.8	44.0	50 A	208	3	1"	3 #8, 1 #10 GND	60/40/3	A - 7,9,11	
RTU-03	ROOFTOP UNIT	11800		12.2	11.8	44.0	50 A	208	3	1"	3 #8, 1 #10 GND	60/40/3	A - 13,15,17	
RTU-04	ROOFTOP UNIT	13798	0	15.9	13.8	50.0	60 A	208	3	1"	3 #6, 1 #10 GND	60/50/3	A - 19,21,23	

TIME CONTROL SCHEDULE FOR; CORRIDOR, VESTIBULE,

EXTERIOR BLDG LTG, SITE AREA LTG

ASTRONOMICAL TIMECLOCK

LCP ACCESSORY



WALL SWITCH, 1 POLE, DIMMABLE AUTO ON/OFF

SÄZÄN GROUP 311 E. Veterans Way, Ste. 102 Tempe, AZ 85281

> Tel 480.530.9101 Fax 480.530.9130 SAZAN# 700-22061

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CONSTRUCTION **DOCUMENTS** Revision Schedule No. Date Description

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ART PROJECT NO. 22025 04.21.2023



ELECTRICAL SCHEDULES

E2.00

- A. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ALL AREAS OF THE BUILDING. VERIFY ALL CEILING TYPES AND LIGHTING FIXTURE COMPATIBILITY PRIOR
- B. CONDUIT SHALL RUN PARALLEL TO ROOF DECKING AND PERPENDICULAR TO STRUCTURAL COMPONENTS BUT NOT LIMITED TO BEAMS, JOISTS AND SUPPORT CHANNELS IN OPEN CEILING AREAS. PRIOR TO INSTALLATION, COORDINATE AND VERIFY ALL EXPOSED CONDUIT ROUTING LOCATIONS WITH THE
- C. LOCATIONS WITH MULTIPLE SWITCHES SHALL BE INSTALLED WITH A MULTI-GANG BOX WITH SINGLE
- D. INSTALLATION OF ALL FIXTURES IN OPEN CEILING AREAS SHALL BE NEAT AND ORDERLY WITH THREADED
- E. OCCUPANCY SENSORS SHALL ENABLE LOCAL SWITCH OPERATION IN ROOMS COVERED BY SENSORS.
- F. INTERIOR EGRESS PATHWAY LIGHTING FIXTURES SHALL PROVIDE AN AVERAGE OF 1 FOOT-CANDLE PER CODE REQUIREMENTS. IN ADDITION, ALL EGRESS LIGHTING FIXTURES SHALL BE CONTROLLED THROUGH
- G. WHERE EXIT SIGNS ARE INDICATED ABOVE DOOR, MOUNT AS FOLLOWS: CENTER THE EXIT SIGN BETWEEN TOP OF DOOR FRAME AND CEILING. IF DISTANCE BETWEEN TOP OF DOOR FRAME AND CEILING IS 24" OR LESS. OTHERWISE MOUNT BOTTOM OF EXIT SIGN 6" FROM TOP OF DOOR FRAME. MOUNT OTHER WALL MOUNTED EXIT SIGNS IN THE SAME AREA AT THE HEIGHT. COORDINATE WITH ARCHITECTURAL DETAILS. REFERENCE ARCHITECTURAL CODE SHEETS FOR FINAL LOCATIONS AND
- H. CONDUCTOR COUNTS AND CONDUIT WIRING FOR THIS PLAN HAVE NOT BEEN INDICATED. CONTRACTOR SHALL PROVIDE CONDUCTORS FOR SWITCH LEGS AND NON-SWITCHED LOADS AS REQUIRED. ALL DIMMING LOADS SHALL INCLUDE A DEDICATED NEUTRAL INSTALLED FOR EACH CONTROLLED GROUP. SWITCHES OR OCCUPANCY SENSORS, PROVIDE ALL REQUIRED CONDUCTORS AND POWER PACKS
- I. CONTRACTOR SHALL PROVIDE TRAINING, COMMISSIONING AND PROGRAMMING OF LIGHTING CONTROL SYSTEM BY AUTHORIZED MANUFACTURER'S REPRESENTATIVE. OWNER, ENGINEER, AND ARCHITECT
- J. CHOSEN CONTROL MANUFACTURER MAY REQUIRE ADDITIONAL DEVICES AND/OR ACCESSORIES. ADDITIONAL DESIGN MAY BE REQUIRED ONCE MANUFACTURER HAS BEEN CHOSEN. SUBMITTAL PACKAGE
- C405.2.3. GENERAL LIGHTING WITHIN PRIMARY DAYLIGHT ZONE DOES NOT EXCEED 150 WATTS.
- 2. WALL MOUNTED 490W EMERGENCY LIGHTING INVERTER. MANUFACTURER; ONLINE POWER, MODEL; WM.49R25OP. MOUNT INVERTER AS HIGH AS POSSIBLE. COORDINATE EXACT LOCATION WITH

CONSTRUCTION DOCUMENTS Revision Schedule

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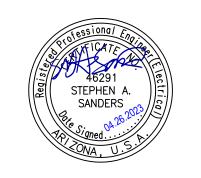
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No. Date Description

ART PROJECT NO. 22025 04.21.2023



ELECTRICAL LIGHTING - PLAN

Tel 480.530.9101 Fax 480.530.9130

SAZAN# 700-22061

E3.01

olic Cath West

SAZAN# 700-22061

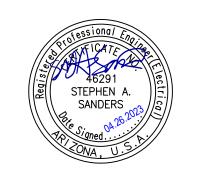
CONSTRUCTION DOCUMENTS

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ELECTRICAL POWER - PLAN

E4.01

C. COORDINATE EXACT LOCATION, QUANTITY, & INSTALLATION REQUIREMENTS OF ALL ELECTRICAL

EQUIPMENT WITH ARCHITECT AND WITH ALL PERTINENT TRADES PRIOR TO ROUGH IN.

E. MAXIMUM NUMBER OF CONDUCTORS IN A CONDUIT SHALL NOT EXCEED 7, UON.

F. CIRCUITS WIRED AS MULTI-WIRE BRANCH CIRCUITS SHALL HAVE A DISCONNECTING MEANS PER NEC

G. CONDUIT ROUTING IS SHOWN FOR REFERENCE ONLY. CONTRACTOR TO FIELD VERIFY AND ROUTE CONDUIT AND WIRING AS FIELD CONDITIONS PERMIT. INSTALL PULL/JUNCTION BOXES AS REQUIRED BY

H. ALL EQUIPMENT LOCATIONS, CONDUIT ROUTING, EQUIPMENT CONNECTIONS AND TERMINATION POINTS ARE SCHEMATIC AN SHOWN FOR REFERENCE ONLY. E.C. SHALL VERIFY AND COORDINATE EXACT REQUIREMENTS IN FIELD WITH ARCHITECT, AND EQUIPMENT VENDOR.

I. COORDINATE COMPLETE ELECTRICAL INSTALLATIONS SO THAT ALL WORKING CLEARANCES FOR ALL ELECTRICAL EQUIPMENT ARE PROVIDED AS REQUIRED PER NEC 110.26. FURTHERMORE, COORDINATE WITH ALL PERTINENT TRADES SOT THAT ELECTRICAL INSTALLATIONS DO NOT PREVENT WORKING AND MAINTENANCE CLEARANCES TO ANY EQUIPMENT PROVIDED BY OTHERS. THIS INCLUDES BUT IS NOT LIMITED TO EQUIPMENT ACCESS PANELS, ACCESS DOORS, CONTROL PANELS, CONTROL EQUIPMENT/

J. COORDINATE ALL ROOFING WORK WITH ROOF CONTRACTOR TO MAINTAIN ROOFING WARRANTY.

K. CONDUCTORS ROUTED HORIZONTAL ON ROOF TOP SHALL COMPLY WITH NEC 310.15 (B) (2) (a) AND 310.15 (B) (3) (c). FIELD COORDINATE EXACT ROUTING AND INSTALLATION OF ALL CONDUITS ON ROOF TOP WITH

1. PROVIDE WP 20A NON-FUSED DISCONNECT SWITCH FOR EXTERIOR BUILDING SIGNAGE.

2. PROVIDE UNISTRUT AND NECESSARY HARDWARE TO MOUNT WP/WR DUPLEX GFCI RECEPTACLE.

3. PROVIDE JUNCTION BOX WITH 3/4"C AND PULLWIRE STUBBED INTO ACCESSIBLE CEILING SPACE FOR

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ELECTRICAL POWER - ROOF PLAN

 $S \ddot{A} Z \ddot{A} N$ GROUP

311 E. Veterans Way, Ste. 102 Tempe, AZ 85281

Tel 480.530.9101 Fax 480.530.9130 SAZAN# 700-22061

(1) 'SES': FACTORY INSTALLED CU MAIN BONDING JUMPER (MINIMUM #2/0)

(2) 'SES': #2/0 CU SUPPLY SIDE EQUIPMENT BONDING JUMPER.

(3) COPPER GROUND BAR IN MAIN ELECTRICAL ROOM.

(4) TYPICAL TELECOM BACKBOARD GROUND BAR. SEE DETAIL 2 THIS SHEET (5) BUILDING STEEL.

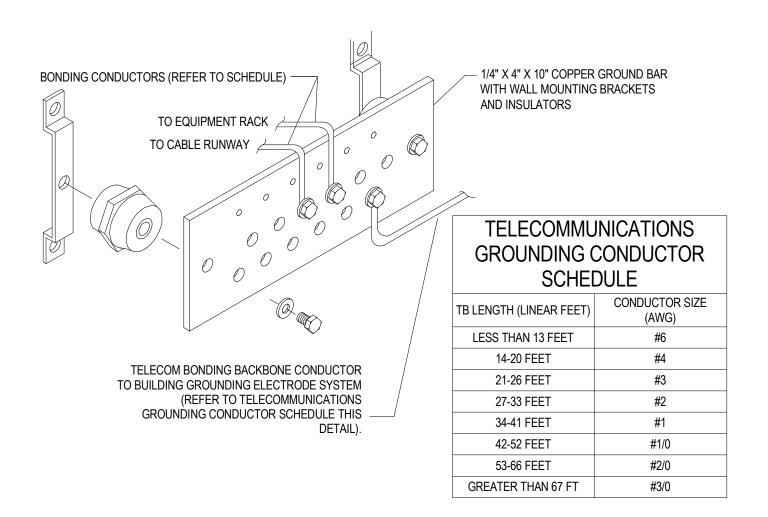
(6) METAL PIPING.

(2) 5/8" Ø 10'L CU CLAD STEEL GROUND RODS, SPACED 10' APART.

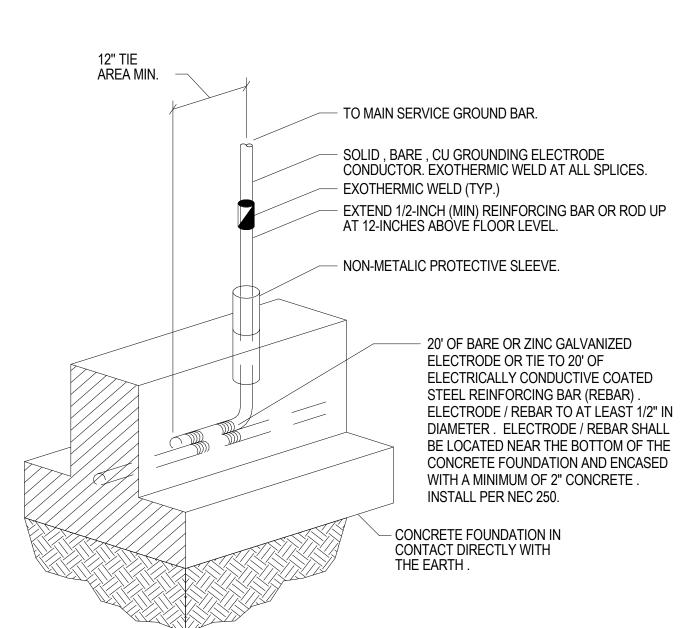
(8) CONCRETE ENCASED ELECTRODE "UFER". SIZE PER DETAIL 3 THIS SHEET.

(9) SIZE PER GROUND BUS BAR DETAIL 2 THIS SHEET.

GROUNDING SYSTEM DETAIL SCALE: NTS



GROUND BUS BAR ASSEMBLY DETAIL



CONCRETE ENCASED ELECTRODE

AVAILABLE FAULT CURRENT:

SES TO PANEL B

SERVICE EQUIPMENT

 $F1 = AFC(PRI) \times V(PRI) \times 1.73 \times ...$ $F = 1.732 \times L \times AFC(1)$ 100,000 x KVA

3/O MAGNETIC

 $AFC(SEC) = PRIMARY \times M1 \times AFC(1)$ $AFC(2) = AFC(1) \times M$ V SECONDARY FAULT LOCATION Conductor Type AFC(1) or AFC(PRI) V or V(PRI) V(SEC) L C VALUE KVA %Z N f or f1 M or M1 AFC(2) or AFC(SEC) TYPE OF CALCULATION Cable Conduit Type SES AFC AT END OF A FEEDER 208 1 0.5614 0.6404 SES TO PANEL A AFC AT END OF A FEEDER 500 KCM NON-MAGNETIC 18976 208 95 26706

PANEL PANEL MAXIMUM AVAILABLE FAULT CURRENT BASED ON SALT RIVER PROJECT (SRP) ELECTRIC SERVICE REQUIREMENTS: 18,976A 400D SERVICE ENTRANCE SECTION - SES 400A, 208/120V, 3PH, 4W 22,000 AIC UTILITY COMPANY **METER** UTILITY TRANSFORMER CONDUCTOR (2)4"C W/PULL STRING ~

AFC AT END OF A FEEDER

ONE-LINE DIAGRAM

			SCHEDULE	
		COPPER C	ONDUCTORS	
CODE	AMPS	CONDUIT SIZE	CONDUCTOR SIZE	GROUND CONDUCTOR
200D	200	2-1/2"	(4) #3/0	#6
400D	380	3-1/2"	(4) 500 kCMIL	#2

FEEDER SCHEDULE NOTES:

- ALL CONDUCTORS ARE COPPER WITH THWN/THHN INSULATION
- CONDUIT FILL BASED ON RIGID PVC SCHEDULE 40 RACEWAY (MINIMUM SIZE 3/4") ALL GROUNDING CONDUCTOR SIZES BASED ON TABLE 250-122 FOR EQUIPMENT GROUNDING CONDUCTORS.
- CONDUCTOR AMPACITIES BASED ON TABLE 310-15(B)(16), 75 DEGREE COLUMN, EXCEPT WHERE NOTED.
- CODE LETTER "C" INDICATES 3 PHASE, 3W OR 1 PHASE, 3W.
- CODE LETTER "D" INDICATED 3 PHASE, 4W (NO DERATING FOR CURRENT-CARRYING NEUTRAL).
- CODE LETTER "E" INDICATES 3 PHASE, 4W, 200% N (CONDUCTORSDERATED FROM 90 DEGREE COLUMN FOR
- FEEDERS FOR TRANSFORMER SECONDARIES MUST BE EQUAL AMPACITY TO DEVICE UPON WHICH THEY ARE TERMINATED
- ALUMINUM ALTERNATE ONLY ALLOWED WITH HYPRESS LUGS. OR SADDLE TYPE WITH SET SCREW CONNECTORS
- FILL RATIO DENOTES PERCENTAGE OF MAXIMUM ALLOWABLE FILL FOR PVC CONDUIT AND TYPE THHN AS DENOTED.

ELECTRICAL ONE-LINE SHEET NOTES

208

A. SWITCHBOARD COMPONENTS, INCLUDING OVERCURRENT PROTECTIVE DEVICES SHALL BE FULLY RATED FOR THE AVAILABLE FAULT CURRENT SHOWN ON FAULT CURRENT CALCULATIONS ON THIS SHEET.

1 0.0394 0.9621

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B. CONDUCTOR SIZES BASED ON THHN/XHHW-2, 90° C, 600V, INSULATED, COPPER WIRE APPLIED AT 60° C AMPACITIES FOR SIZES UP TO #1 AWG, AND 75° C, AMPACITIES FOR SIZES LARGER THAN #1.

5 12843

- C. NO DESIGN CHANGES MAY BE MADE TO THE SYSTEM WITHOUT THE PRIOR APPROVAL OF THE DESIGN
- ENGINEER AND THE ELECTRICAL INSPECTOR. D. ALL ELECTRICAL SERVICE & SWITCHBOARD COMPONENTS SHALL HAVE PHYSICAL DIMENSIONS THAT WILL
- PERMIT ITS INSTALLATION IN SPECIFIED AREAS. THE ELECTRICAL CONTRACTOR SHALL ESTABLISH EXACT DIMENSIONS AND ADEQUATE CLEARANCES PRIOR TO ORDERING. REFER TO POWER PLANS FOR LOCATIONS
- E. ALL INTERIOR ELECTRICAL EQUIPMENT ENCLOSURE(S) SHALL BE NEMA 1, AND ALL EXTERIOR ELECTRICAL EQUIPMENT ENCLOSURE(S) SHALL BE NEMA 3R.
- F. PROVIDE LABELING ON ALL EQUIPMENT THAT WARNS OF POTENTIAL ELECTRICAL ARC FLASH HAZARDS PER NEC 110.16.
- G. IF METAL GAS PIPING IS INSTALLED, PROVIDE A BONDING CONDUCTOR TO METAL GAS PIPING PER NEC 250.104(B) SIZED PER NEC 250.122.
- H. ELECTRICAL SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED WITH THE MAXIMUM AVAILABLE FAULT CURRENT AND THE DATE THE CALCULATION WAS PERFORMED PER NEC 110-24.
- I. EACH DISCONNECTING MEANS SHALL BE LEGIBLY MARKED TO INDICATE ITS PURPOSE UNLESS LOCATED AND ARRANGED SO THE PURPOSE IS EVIDENT. THE MARKING SHALL INCLUDE THE IDENTIFICATION OF THE CIRCUIT SOURCE THAT SUPPLIES THE DISCONNECTING MEANS. THE MARKING SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. 110.22, NEC.

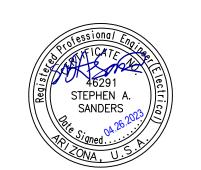
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CONSTRUCTION **DOCUMENTS** Revision Schedule

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ELECTRICAL ONE-LINE DIAGRAM

E6.00

SÄZÄN GROUP 311 E. Veterans Way, Ste. 102 Tempe, AZ 85281

> Tel 480.530.9101 Tel 480.530.9101 Fax 480.530.9130

> > SAZAN# 700-22061

	LOCATION: FED FRO LAUNDRY 200 GROUNDING: EQUIPMENT GROUND BUS	OM:							MOU	DLTAGE: 120 TYPE: BO JINTING: RE SKIRTS: NO ATING: 22,0	LT-ON CESS NE	N <u></u> <u>ED</u>	<u>I, 4-WII</u>	<u>RE</u>	
								0 A LO				_			
C K T #	ITEM	N O T E	A M P S	P O L E		Ą	E	3		С	P O L E	A M P S	N O T E	ITEM	
1	RCPTS - EHS CLASSROOM		20 A	1	1260 VA	1440 VA					1	20 A		RCPTS - CLASSROOM 1	
3	COPIER/PRINTER - COPY ROOM		20 A	1			1200 VA	1440 VA			1	20 A		RCPTS - CLASSROOM 2	
	RCPT - COPY ROOM COUNTER A		20 A	1					1200 VA	1440 VA	1	20 A		RCPTS - CLASSROOM 3	
7	RCPT - COPY ROOM COUNTER B		20 A	1	1200 VA	1000 VA					1	20 A		EDF'S - CLASSROOM 1+2	
\longrightarrow	RCPT - COPY ROOM COUNTER C		20 A	1			1200 VA	360 VA			1	20 A		SERVER - IT RM	
	RCPTS - DIRECTORS OFFICE+AREA MANAGER		20 A	1					1080 VA	1000 VA	1	20 A		EDF'S - EHS CLASSROOM+CLASS 3	
	RCPTS - FSS OFFICE+AREA MANAGER		20 A	1	1080 VA	1200 VA					1	20 A	_	EDF - EXTERIOR A	
	RCPTS - LAUNDRY+CORRIDOR		20 A	1			900 VA	1200 VA			1	20 A	LCK	EDF - EXTERIOR B	
	REFRIGERATOR - FOOD PREP	GF	20 A	1					1500 VA	1600 VA	1	20 A	GF	HOT BOX 4 - FOOD PREP	
	HOT BOX 1 - FOOD PREP	GF	20 A	1	240 VA	1600 VA					1	20 A	GF	MICROWAVE - FOOD PREP	
	HOT BOX 2 - FOOD PREP	GF	20 A	1			240 VA	1500 VA			1	20 A	GF	SMALL APPLIANCE 1 - FOOD PREP	
	HOT BOX 3 - FOOD PREP	GF	20 A	1					240 VA	1500 VA	1	20 A	GF	SMALL APPLIANCE 2 - FOOD PREP	
	SECURITY SYSTEM		20 A	1	1200 VA	360 VA					1	20 A		RCPTS - MISTING SYSTEM	
	SPARE		20 A	1			0 VA	0 VA			1	20 A		SPARE	
	SPARE		20 A	1					0 VA	0 VA	1	20 A		SPARE	
	SPACE			1							1			SPACE	
	SPACE			1							1			SPACE	
	SPACE			1							1			SPACE	
	SPACE			1							1			SPACE	
	SPACE			1			-				1			SPACE	
41	SPACE		 	1	405	10.1/4		7.1/4			1			SPACE	
			Total I Total A			3 VA • A	793. 66	7 VA 5 A		0 VA 2 A					
Load	Classification			Conne	cted Load		Demand Fac	tor	Estimate	ed Demand				Panel Totals	
Other					385 VA		100.00%			885 VA					
Recep	otacle			90	00 VA		100.00%		900	00 VA				Total Conn. Load: 27864 VA	
														Total Est. Demand: 27864 VA	
														Total Conn. Current: 77 A	
													Total	Est. Demand Current: 77 A	

04.21.2023

22025

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GROUP

311 E. Veterans Way, Ste. 102 Tempe, AZ 85281

Tel 480.530.9101 Fax 480.530.9130

SAZAN# 700-22061

ART PROJECT NO.

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Cath

tside Head

CONSTRUCTION

Revision Schedule

No. Date Description

DOCUMENTS

ARCHITECTURAL RESOURCE TEAM



ELECTRICAL PANELBOARD SCHEDULES

E7.00