

GENERAL NOTES ALL INTERIOR DIMENSIONS ARE SHOWN TO FACE OF FRAMING UNLESS NOTED OTHERWISE. EXTERIOR WALLS ARE DIMENSIONED TO FACE OF STEM WALL/FACE OF SHEATHING. OPENINGS ARE DIMENSIONED TO FACE OF FRAMING. B EXTERIOR SHEATHING TO ALIGN WITH FACE OF STEM WALL. 4 REFER TO FINISH SCHEDULE SHEET A4.0 FOR APPLIED FINISHES.

5 WALLS TO STRUCTURAL DECK MUST BE THOROUGHLY SEALED AROUND PENETRATIONS.

FULL HEIGHT WALLS

PARTIAL HEIGHT WALLS, BY SEATING VENDOR

FULL HEIGHT INTERIOR WALL WITH R-11 & R-19 SOUND BATT INSULATION

SHEAR WALL - SEE STRUCTURAL DRAWINGS

1 2 3 4 5 6 7 8 9

COOLER/FREEZER WALL, BY MFR

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DATE: 06/10/16 DRAWN:
CHECKED:

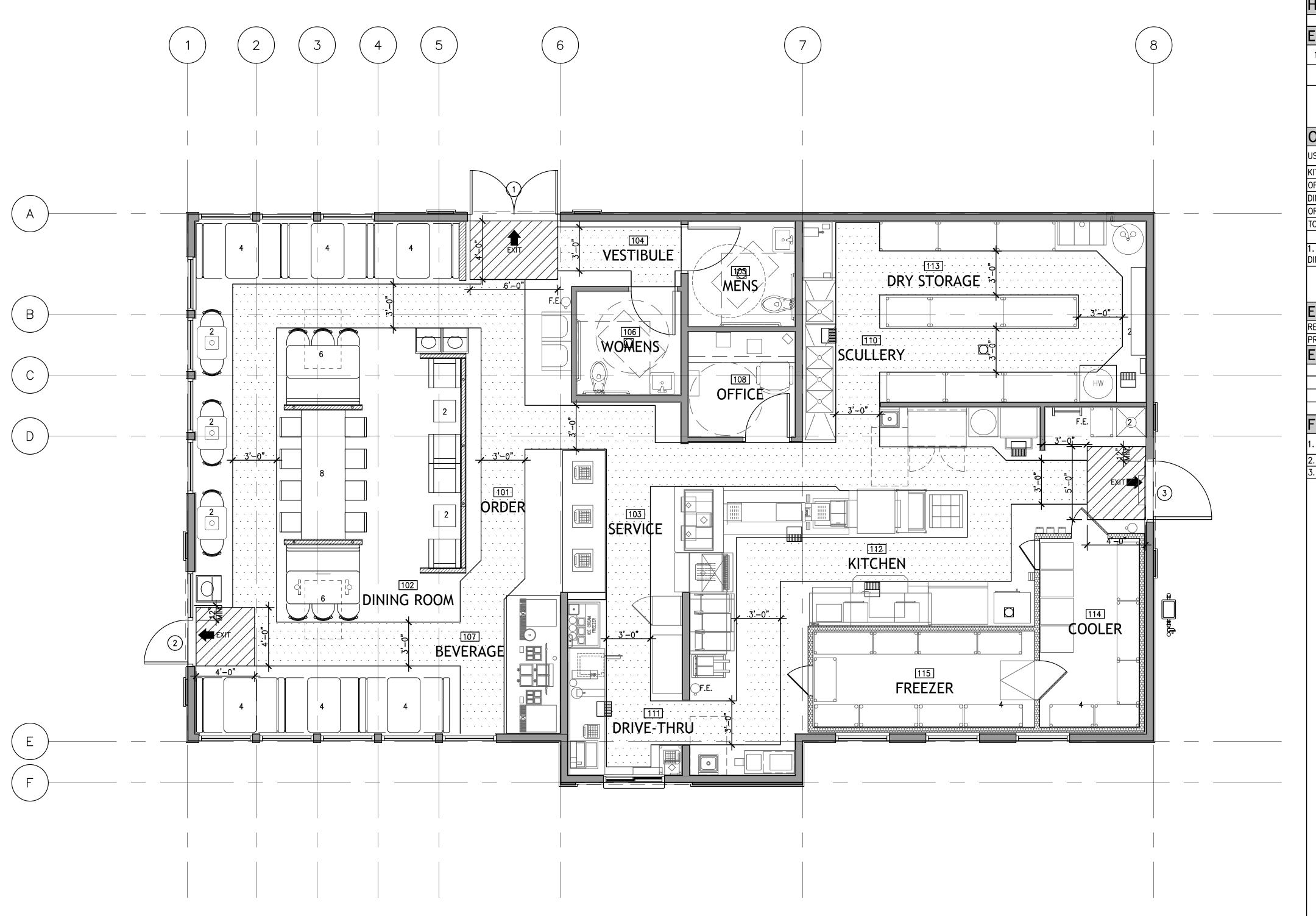
Permit Set

FLOOR PLAN

SHEET NUMBER:

A1.0

NOTED AND DIMENSIONED FLOOR PLAN





1 ALL DIMENSIONED ARE SHOWN TO FACE OF WALL FINISH.

2 REFER TO FINISH SCHEDULE SHEET A4.0 FOR APPLIED FINISHES. 3 ALL FURNITURE TO BE PROVIDED BY OWNER, INSTALLED BY G.C.

BUILDING DATA

RUILDING AREA (SLAB) 2 430 SO ET

BUILDING AREA (SLAB) 2,430	SQ. F	·1.	
SEATING COUNT			
2 TOP TABLE x	5	=	10
4 TOP TABLE x	0	=	0
8 TOP TABLE x	1	=	8
4 TOP BOOTH x	6	=	24
6 TOP TABLE/BOOTH x	2	=	12
TOTAL DINING:		=	54

H.C. SEATING REQUIRED

54 X .05 = 3 SPACES REQ'D

EGRESS LAYOUT NOTES

TACTILE EXIT SIGNS SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS.

A) EACH GRADE LEVEL EXTERIOR DOOR SHALL BE IDENTIFIED BY A TACTILE EXIT WITH THE WORD "EXIT"

EACH EXIT, EXIT ACCESS DOOR FROM AN INTERIOR ROOM OR

AREA TO A CORRIDOR OR HALLWAY THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS, "EXIT ROUTE"

OCCUPANCY LOAD CALCULATION

USE	SQUARE FOOTAGE	OCCUPANT LOAD FACTOR	OCCUPANCY AMOUNT
KITCHEN	1214	200	7
OFFICE	58	100	1
DINING ROOM	_	_	54 (FIXED SEATS)
ORDER AREA	50	5	10
TOTAL			72

. MAXIMUM OCCUPANT LOAD OF 72 TO BE POSTED IN THE MAIN DINING ROOM. SEE 1/A2.2 FOR LOCATION.

EGRESS CALCULATION REQUIRED (72*.2) 14.4 IN.

PROVIDED	138 IN.						
EXIT OCCUPANCY LOADS							
DOOR	EGRESS WIDTH	OCCUPANCY LOAD					
#1	58 IN.	32					
#2	34 IN.	32					
#3	46 IN.	8					

FURNISHING NOTES

HEIGHT OF TABLES AND COUNTERS SHALL BE 28" MINIMUM-34"

MANUEVERING CLEARANCE SHALL BE 30"X48" WIDE

3.	KNEE	CLEARANCE	SHALL	BE	27 "	HIGH,	19"	DEEP	AND	30"	W
			LEAR FLO						EXIT	PATH	



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PROJECT: 151101 DATE: 06/10/16 DRAWN: kk/js CHECKED: jh

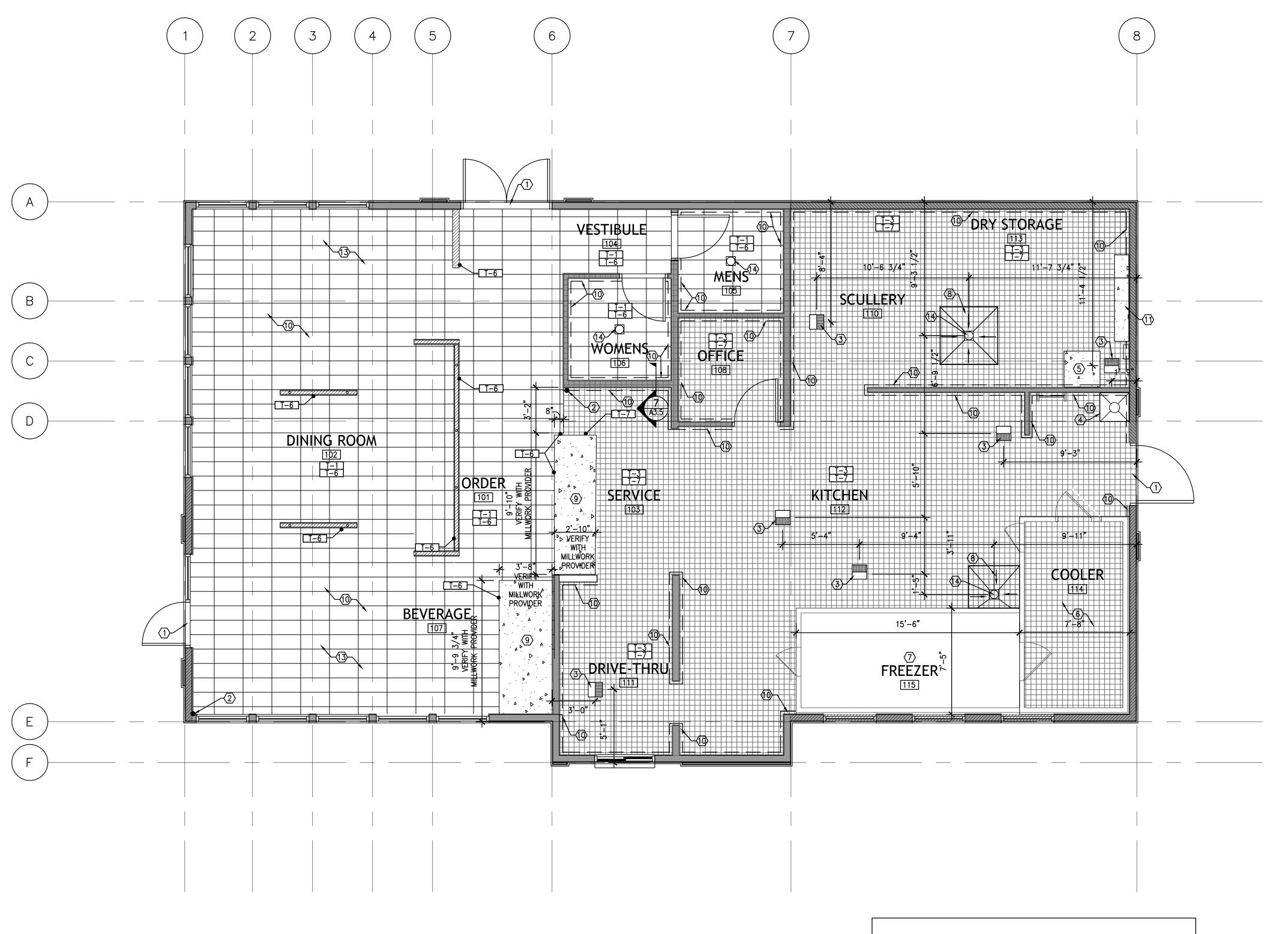
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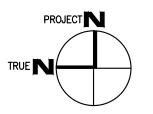
EGRESS/ FURNISHING PLAN

A1.1

EGRESS/FURNISHING PLAN
1/4"=1'-0"



* COORDINATE FLOOR DRAIN AND FLOOR SINK LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN.



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

GENERAL NOTES

1 REFER TO FINISH SCHEDULE SHEET A4.0 FOR APPLIED FINISHES. 2 ALL FLOOR SINKS AND DRAINS ARE DIMENSIONED FROM EXTERIOR FACE OF FOUNDATION TO CENTERLINE OF FIXTURE.

EXECUTE:

1 ALUMINUM THRESHOLD, REFER TO 9/A3.3

2 START POINT OF TILE PATTERN 3 FLOOR SINK, RE: PLUMBING

4 MOP SINK, RE: 6/A3.5 5 CONCRETE PAD FOR WATER HEATER, RE: 2/A3.5 AND STRUCTURAL

6 COOLER FLOOR AND BASE INSTALLED AFTER COOLER/FREEZER UNITS

7 MANUFACTURER'S FREEZER FLOOR AND RAMP BY MFR - NO TILE

8 4' X 4' AREA SLOPED TO FLOOR DRAIN; RE: STRUCTURAL 9 NO TILE UNDER MILLWORK.

WATERPROOFING MEMBRANE UNDER TILE 9" AND UP WALL 9". RE: SPECIFICATIONS.

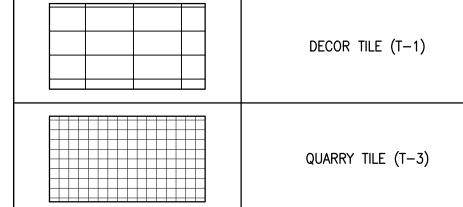
11 CONCRETE CURB FOR ELEC. PANELS, RE: 5/A3.5, ELECTRICAL AND STRUCTURAL.

12 NOT USED

T-6 TILE BASE TO BE APPLIED TO ALL OWNER PROVIDED BOOTH SEATING. RE: K-1 AND A4.0.

14 FLOOR DRAIN, RE: PLUMBING.

FLOOR FINISH LEGEND



EXPOSED CONCRETE

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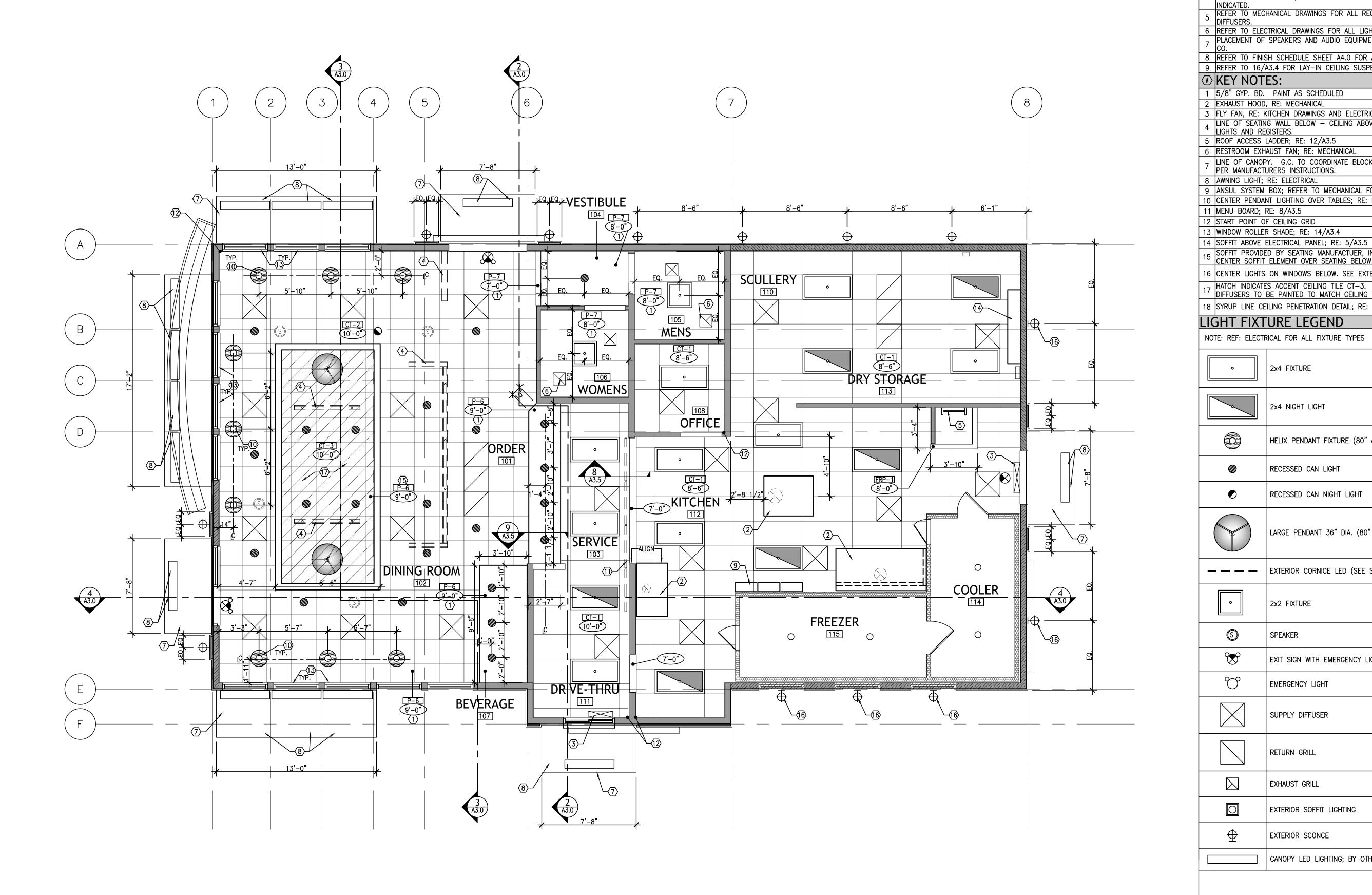
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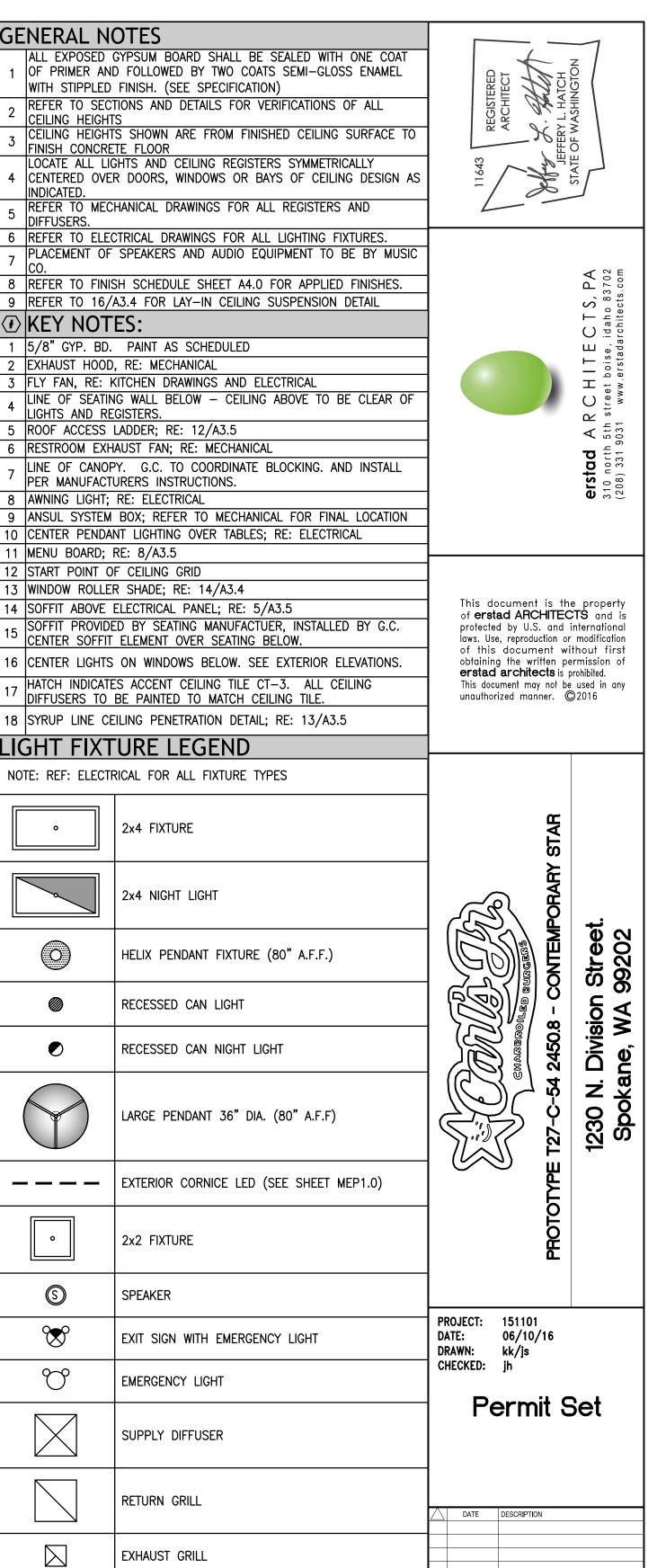
SHEET TITLE:

FLOOR FINISH PLAN

SHEET NUMBER:

A1.2





GENERAL NOTES

2x4 FIXTURE

2x4 NIGHT LIGHT

2x2 FIXTURE

SPEAKER

RETURN GRILL

EXHAUST GRILL

EXTERIOR SCONCE

EXTERIOR SOFFIT LIGHTING

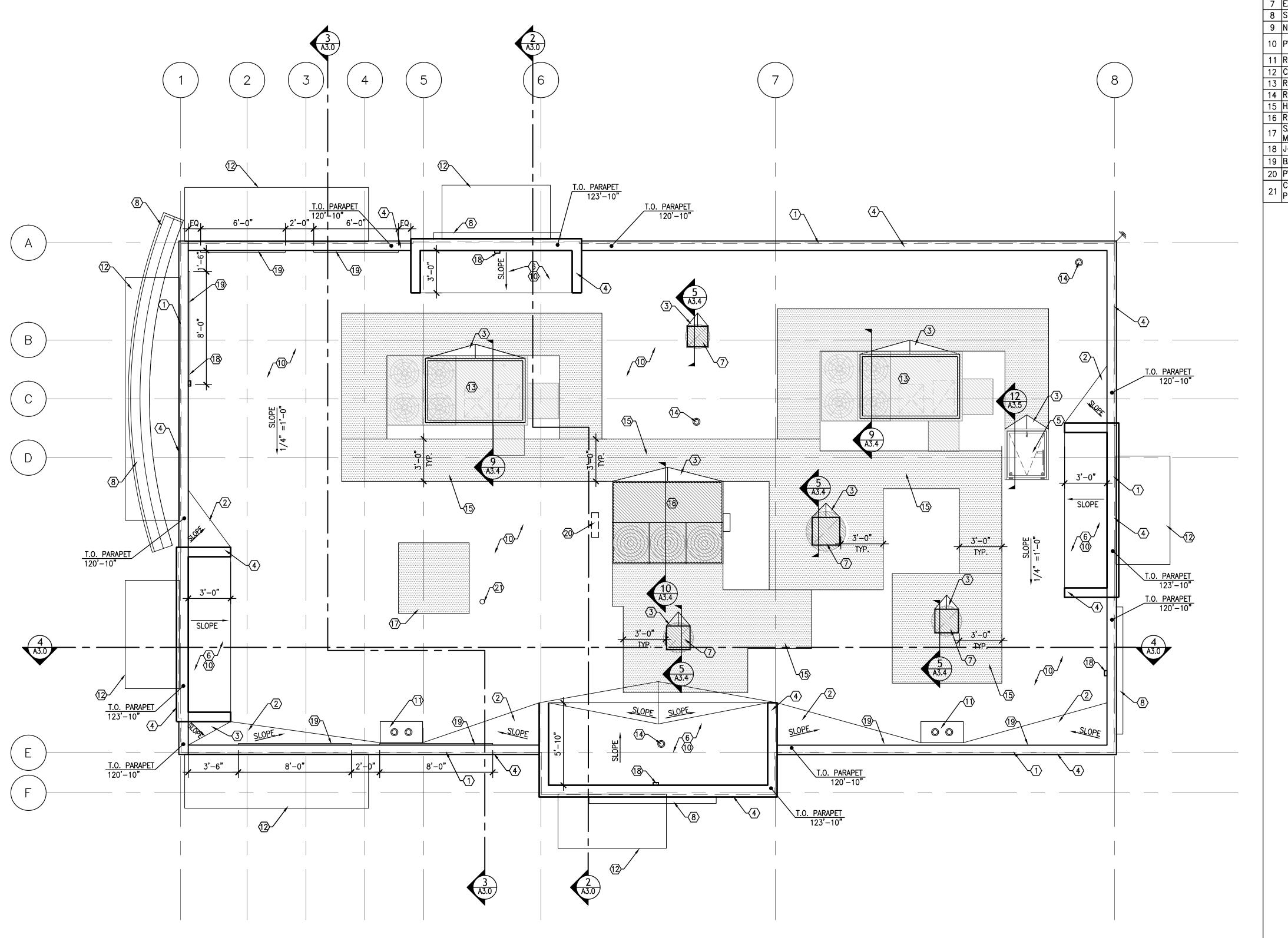
CANOPY LED LIGHTING; BY OTHERS

REFLECTED **CEILING PLAN**

SHEET NUMBER:

A1.3

REFLECTED CEILING PLAN



GENERAL NOTES

REFER TO SHEET S2.0 AND MEP1.0 FOR RTU, FAN, REFRIDGERATION RACK, AND EXHAUST DUCT FRAMING AND CENTERLINE DIMENSIONS.

2 REFER TO 13/A3.4 FOR ROOF TOP PLUMBING VENT DETAIL.

EXECUTE: 1 LINE OF WALL BELOW

2 SLOPE TO DRAIN WITH TAPERED INSULATION, MIN 1/2" PER FOOT.

3 CRICKET, MIN 1/2" PER FOOT SLOPE, TYPICAL 4 METAL CAP FLASHING; PAINT PER EXTERIOR ELEVATION NOTES.

5 ROOF HATCH AND LADDER

6 KICKER; RE: STRUCTURAL

7 EXHAUST FAN, RE: MECHANICAL 8 SIGNAGE BELOW, REFER TO EXTERIOR ELEVATIONS.

9 NOT USED.

10 PVC ROOFING SYSTEM

11 ROOF DRAIN; RE: 19/A3.3

12 CANOPIES; OWNER PROVIDED, CONTRACTOR INSTALLED

13 ROOF TOP UNIT; RE: MECHANICAL 14 ROOFTOP VENTING, REFER TO PLUMBING

15 HATCH INDICATES WORK PADS; RE: SPECS. 16 REFRIDGERATION RACK; RE: K-2

17 SATELLITE DISH PAD, COORDINATE LOCATION WITH OWNER; RE: MEP1.0 FOR ADDITIONAL INFORMATION

18 J-BOX FOR SIGNAGE; RE: 7/A3.4 AND MEP ROOF PLAN

19 BANNER EYE-LAG; RE: 7A/A3.4 FOR DETAIL 20 PVC PENETRATION POCKET; RE: 11/A3.4

CONDUIT THROUGH ROOF, COORDINATE LOCATION WITH SATELITE 21 PROVIDER. RE: ELECTRICAL AND 13/A3.4.

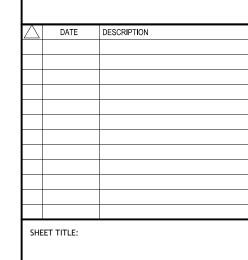
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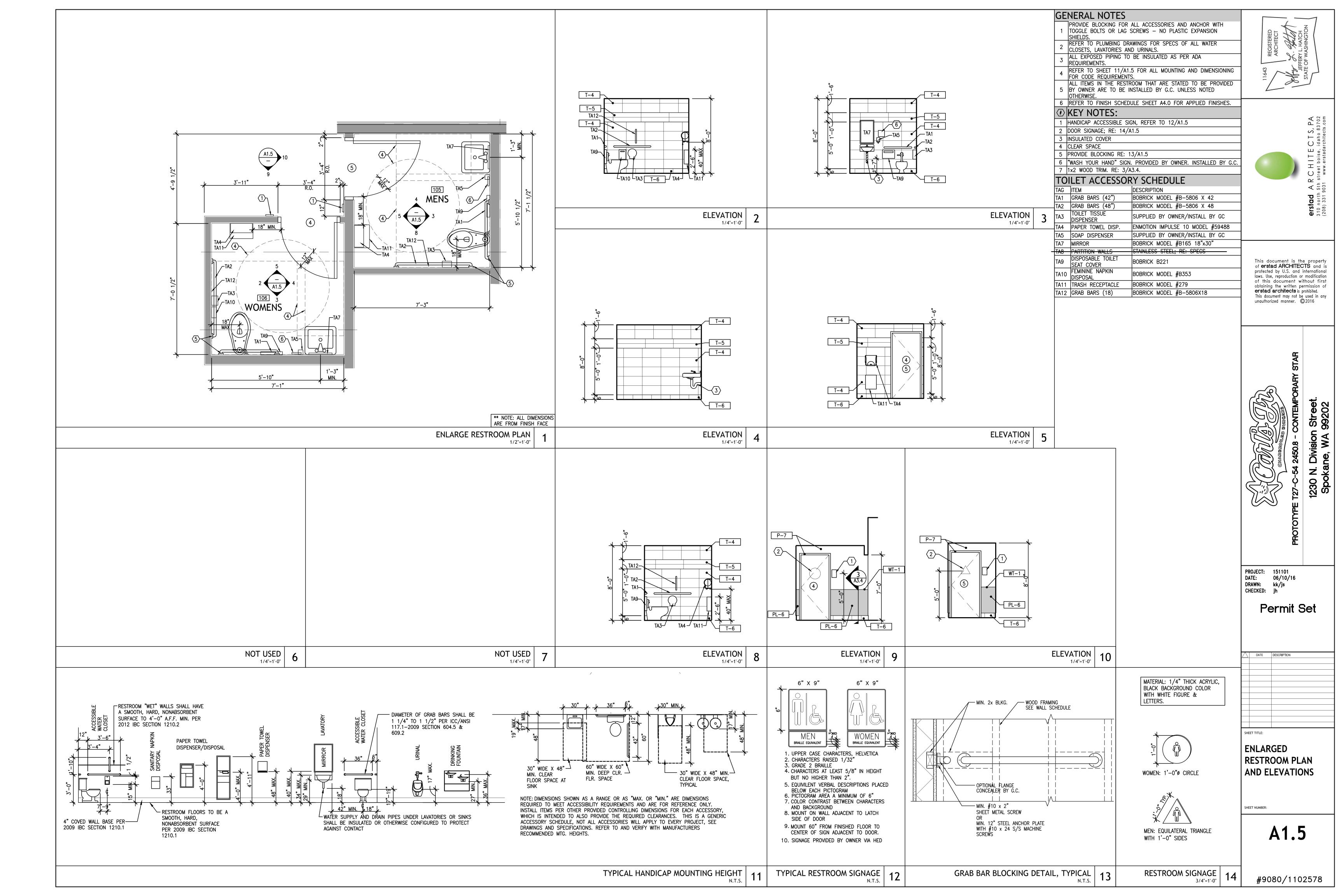


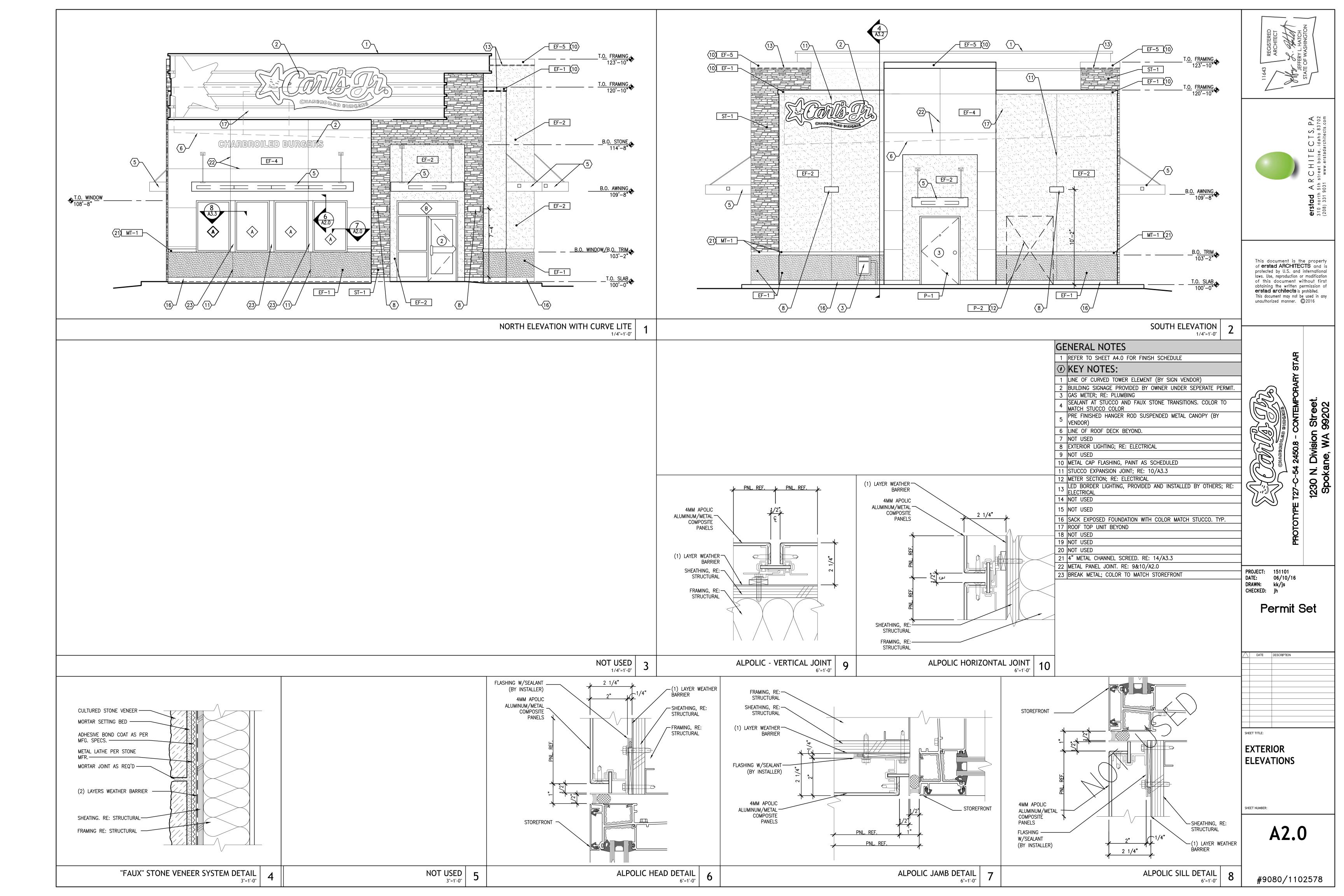
ROOF PLAN

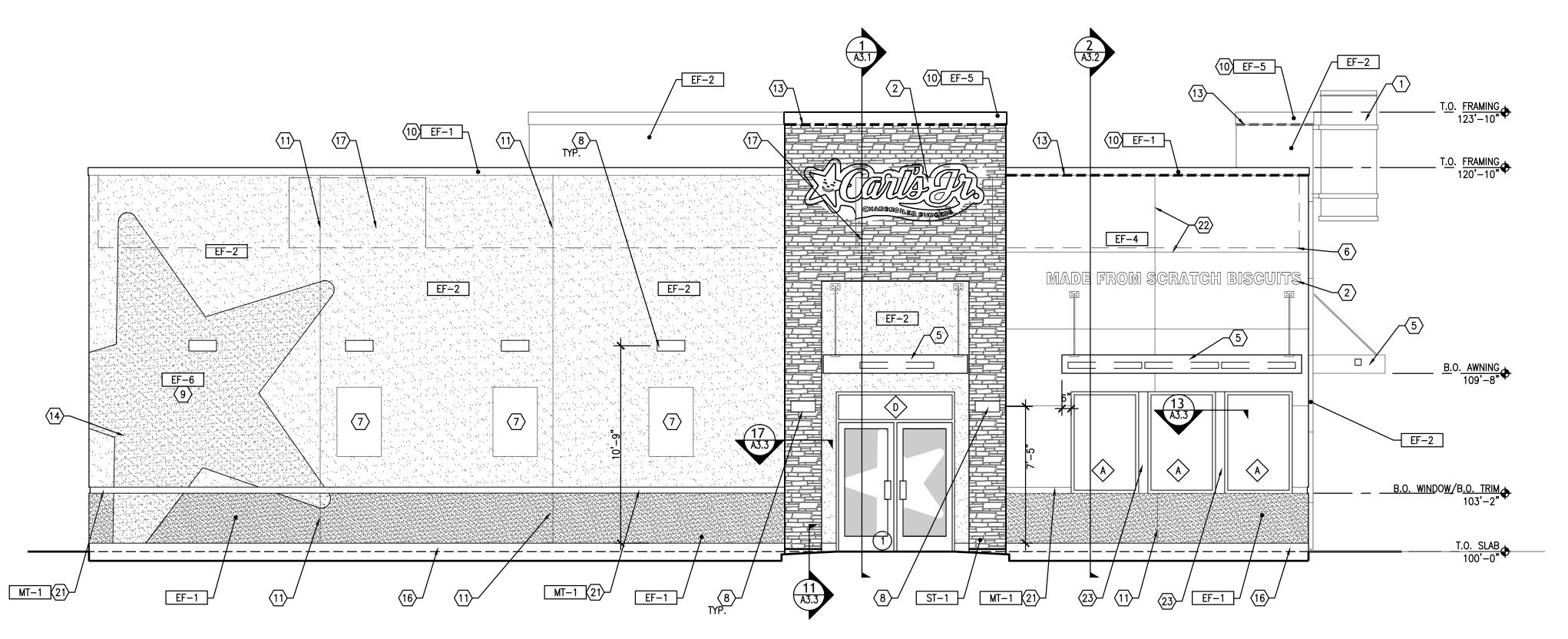
A1.4

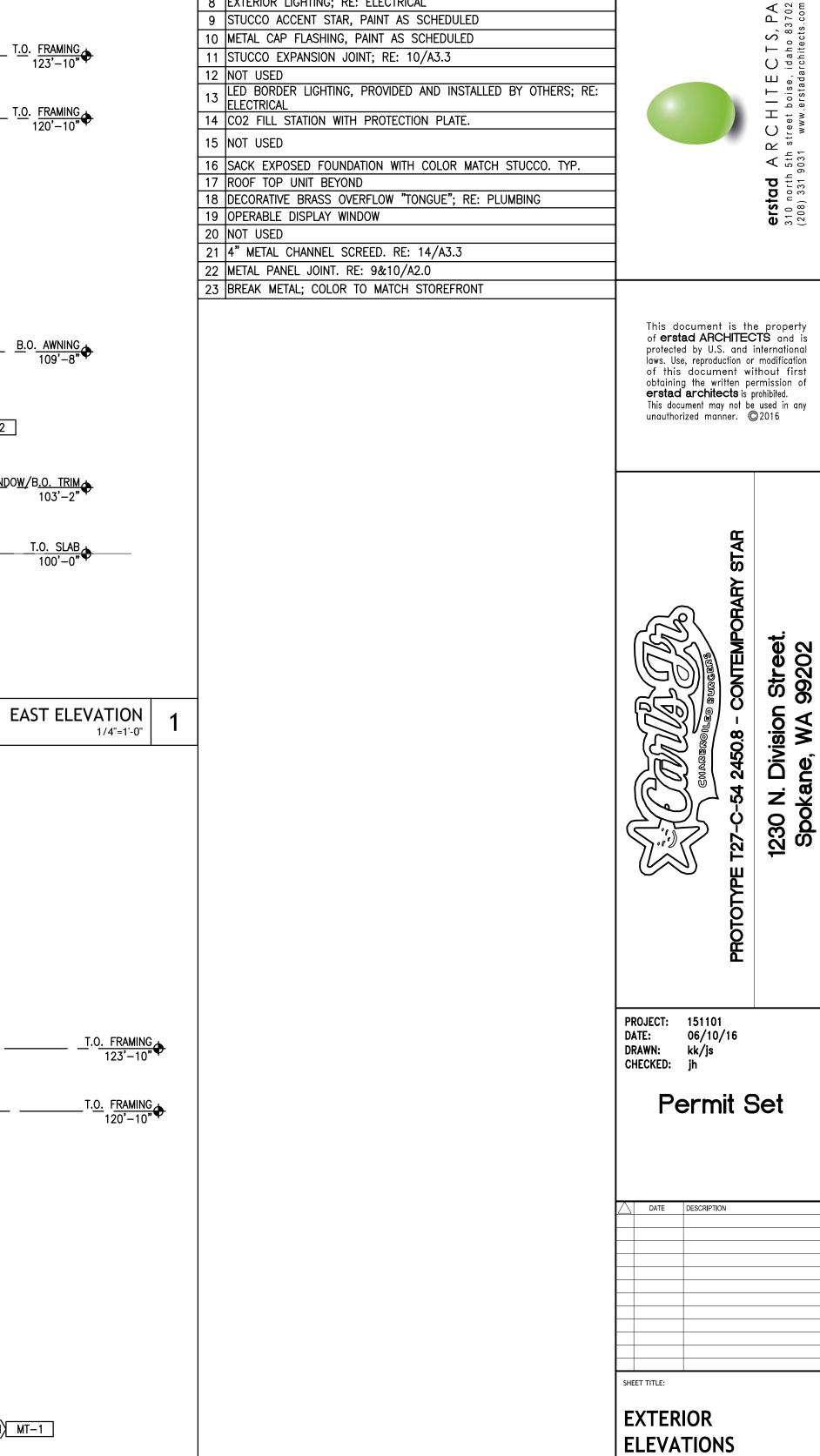
#9080/1102578

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









SHEET NUMBER:

A2.1

#9080/1102578

GENERAL NOTES

EXECUTE:

3 NOT USED

12 NOT USED

15 NOT USED

1 REFER TO SHEET A4.0 FOR FINISH SCHEDULE

PROIVDED, CONTRACTOR INSTALLED.

8 EXTERIOR LIGHTING; RE: ELECTRICAL

9 STUCCO ACCENT STAR, PAINT AS SCHEDULED 10 METAL CAP FLASHING, PAINT AS SCHEDULED 11 STUCCO EXPANSION JOINT; RE: 10/A3.3

14 CO2 FILL STATION WITH PROTECTION PLATE.

6 LINE OF ROOF DECK BEYOND.

1 LINE OF CURVED TOWER ELEMENT (BY SIGN VENDOR)

7 STANDARD EXTERIOR "POSTER" PANELS (PER VENDOR)

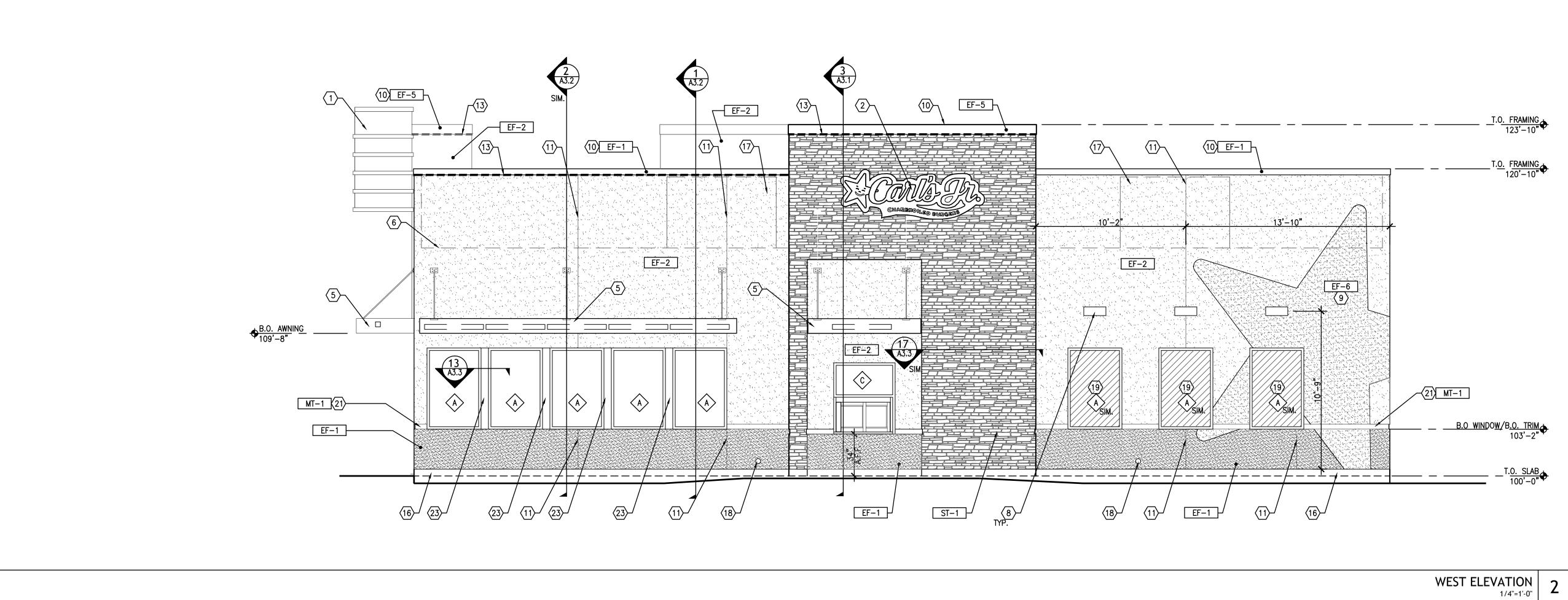
2 BUILDING SIGNAGE PROVIDED BY OWNER UNDER SEPERATE PERMIT.

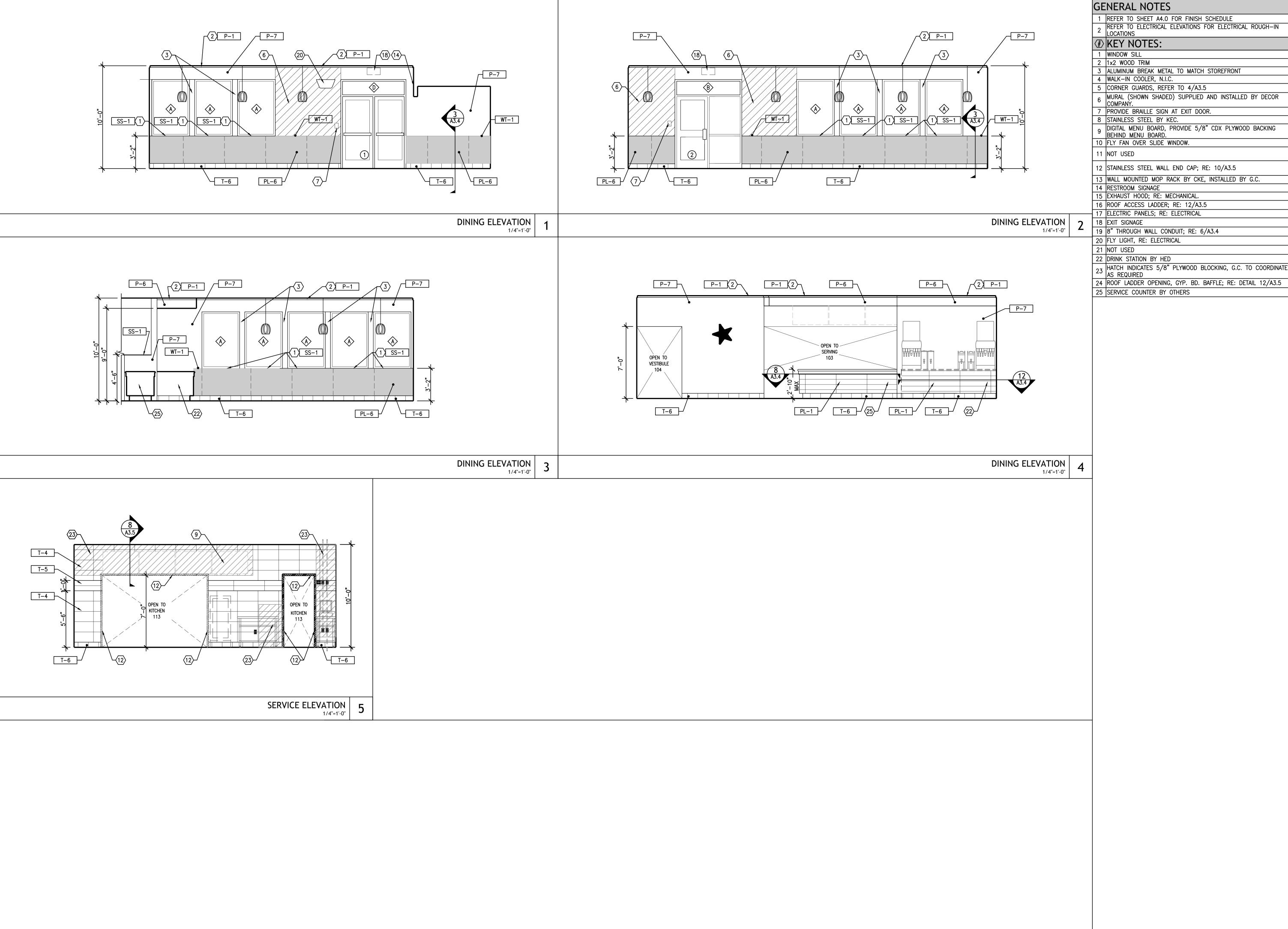
4 SEALANT AT STUCCO AND FAUX STONE TRANSITIONS. COLOR TO MATCH STUCCO COLOR

PRE FINISHED HANGER ROD SUSPENDED METAL CANOPY OWNER

LED BORDER LIGHTING, PROVIDED AND INSTALLED BY OTHERS; RE: ELECTRICAL

16 SACK EXPOSED FOUNDATION WITH COLOR MATCH STUCCO. TYP.





1 REFER TO SHEET A4.0 FOR FINISH SCHEDULE

2 REFER TO ELECTRICAL ELEVATIONS FOR ELECTRICAL ROUGH—IN LOCATIONS

3 ALUMINUM BREAK METAL TO MATCH STOREFRONT

4 WALK-IN COOLER, N.I.C. 5 CORNER GUARDS, REFER TO 4/A3.5

6 MURAL (SHOWN SHADED) SUPPLIED AND INSTALLED BY DECOR COMPANY.

7 PROVIDE BRAILLE SIGN AT EXIT DOOR.

9 DIGITAL MENU BOARD, PROVIDE 5/8" CDX PLYWOOD BACKING BEHIND MENU BOARD.

10 FLY FAN OVER SLIDE WINDOW.

12 STAINLESS STEEL WALL END CAP; RE: 10/A3.5

13 WALL MOUNTED MOP RACK BY CKE, INSTALLED BY G.C.

16 ROOF ACCESS LADDER; RE: 12/A3.5

17 ELECTRIC PANELS; RE: ELECTRICAL

19 8" THROUGH WALL CONDUIT; RE: 6/A3.4

20 FLY LIGHT, RE: ELECTRICAL

22 DRINK STATION BY HED

HATCH INDICATES 5/8" PLYWOOD BLOCKING, G.C. TO COORDINATE AS REQUIRED

25 SERVICE COUNTER BY OTHERS

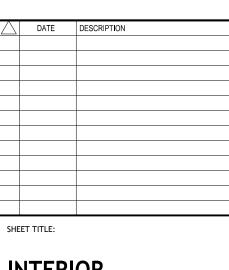
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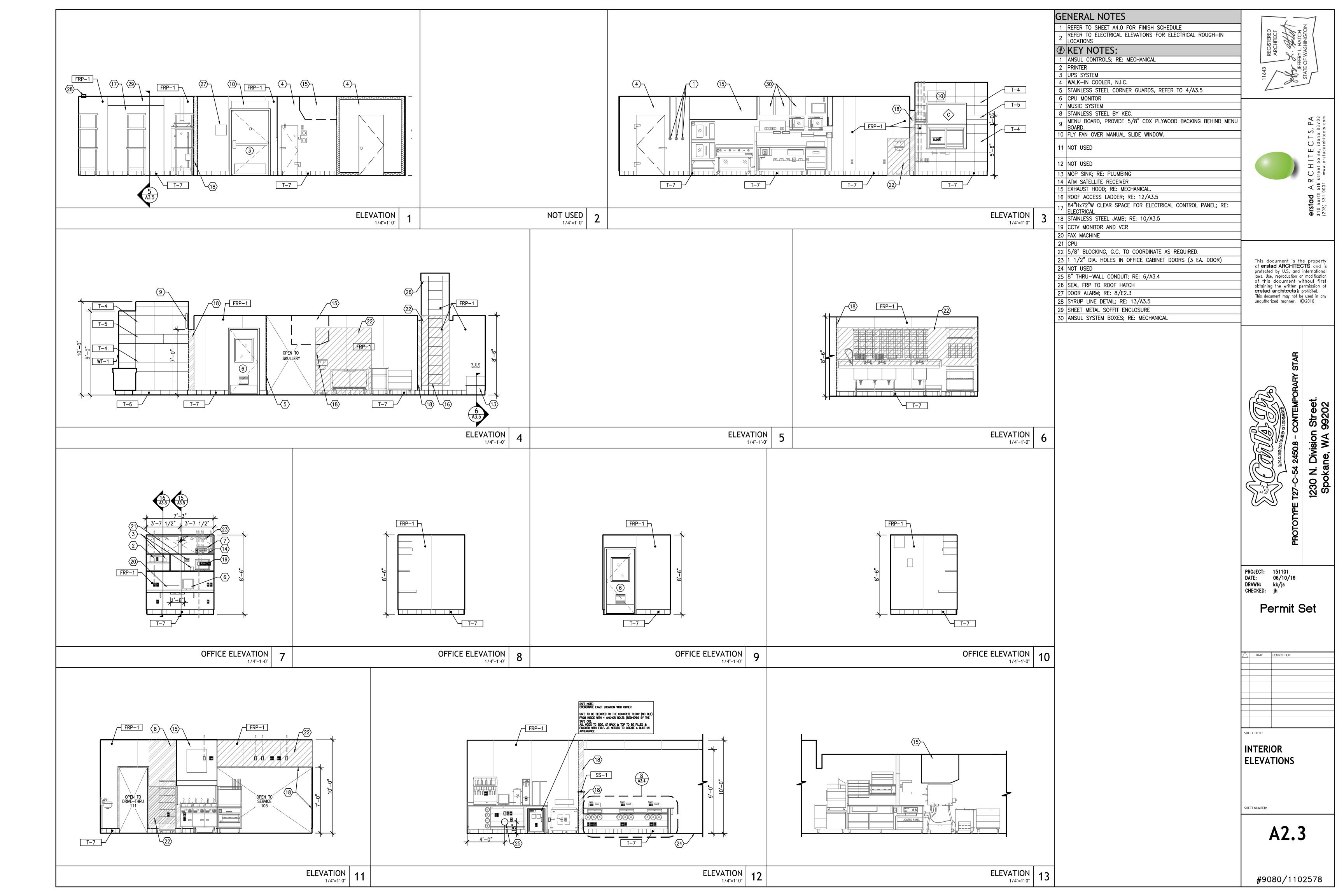
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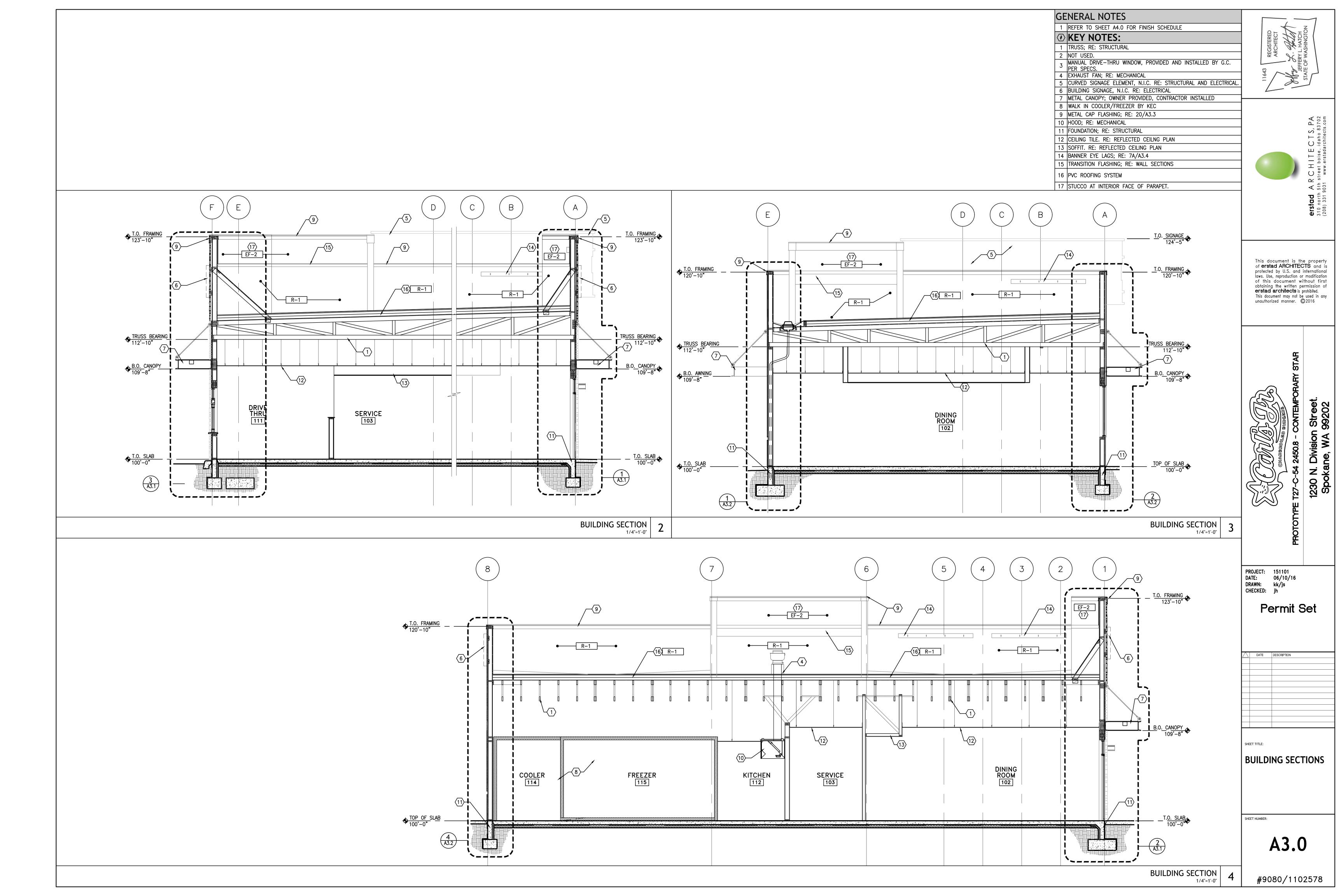
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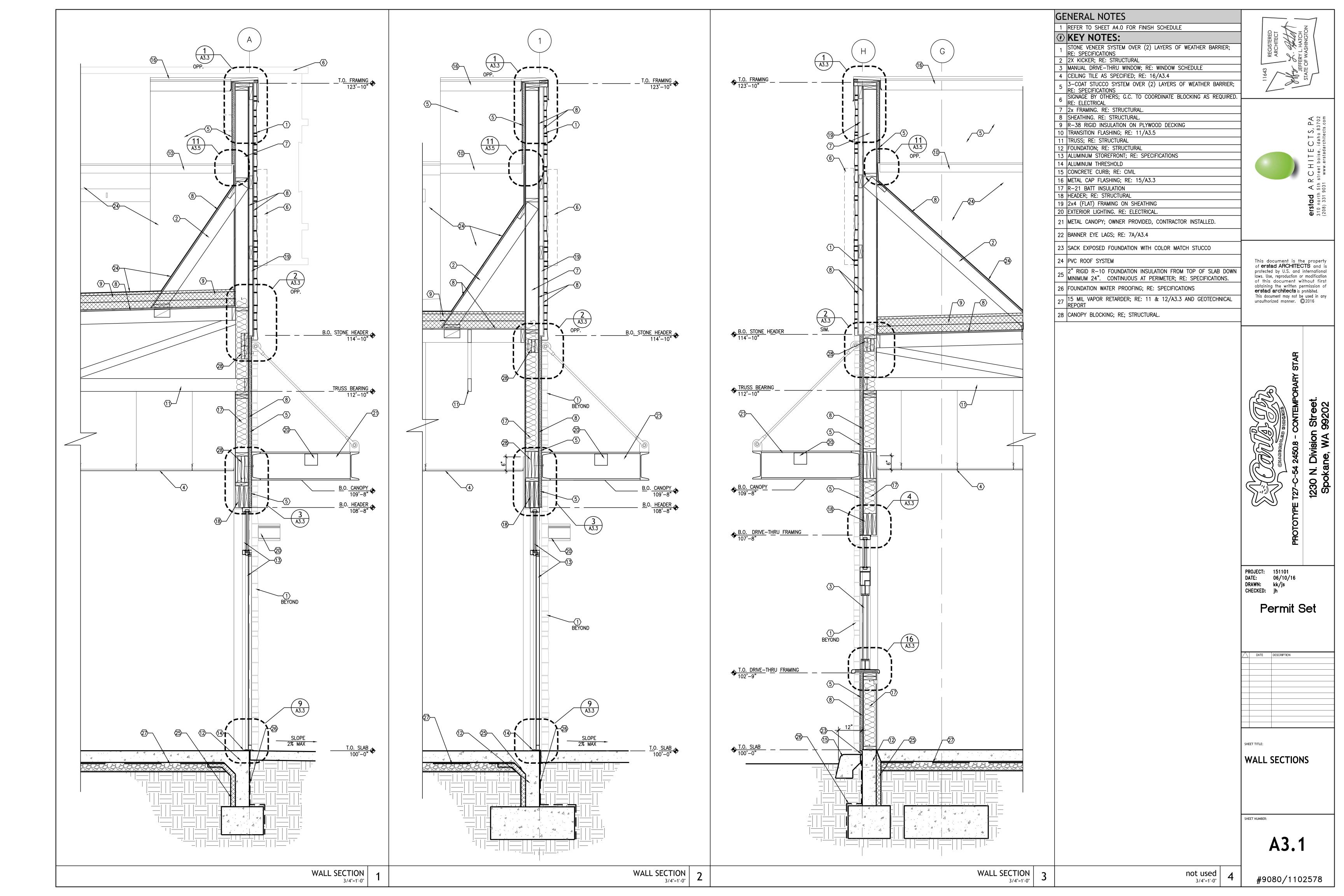


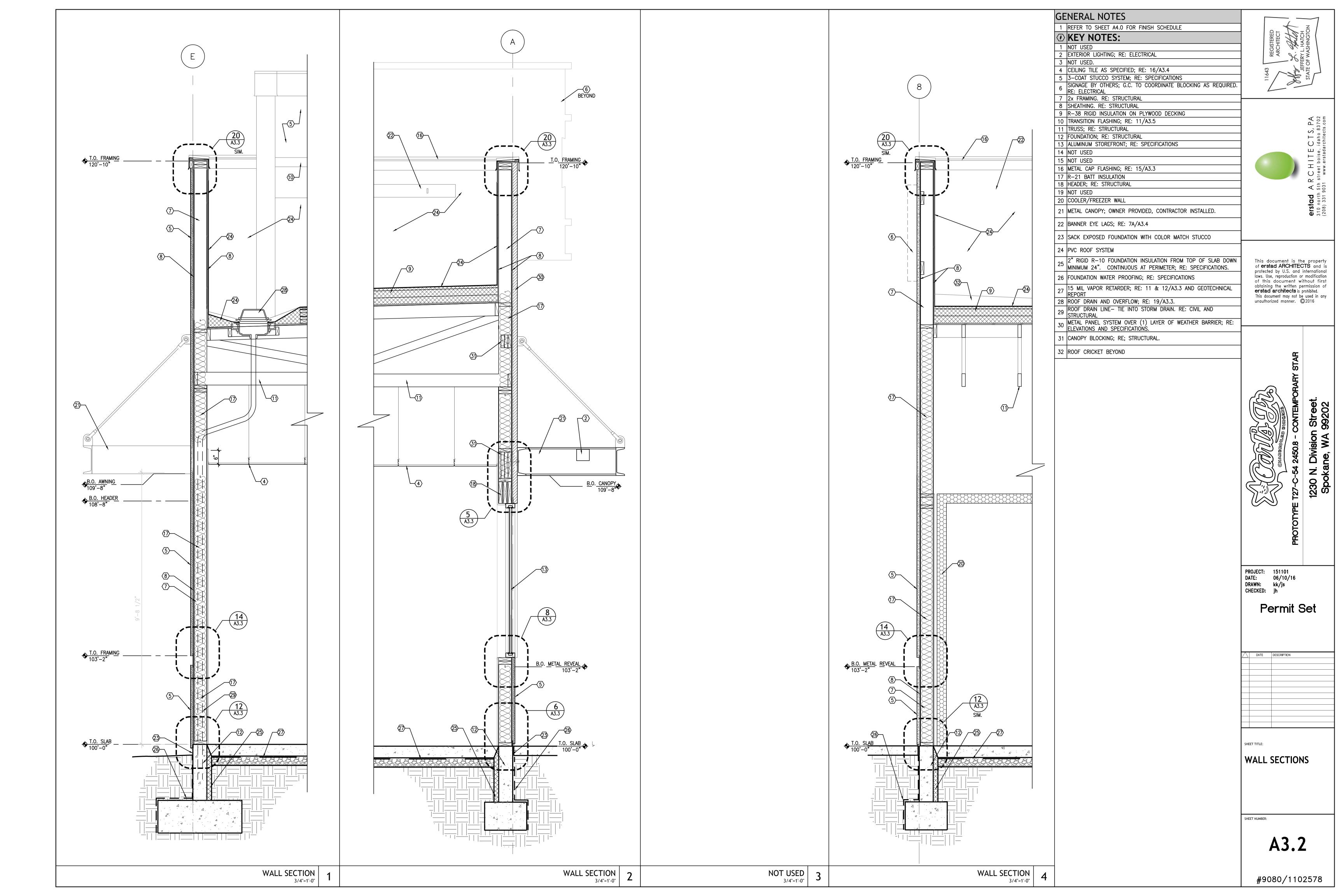
INTERIOR **ELEVATIONS**

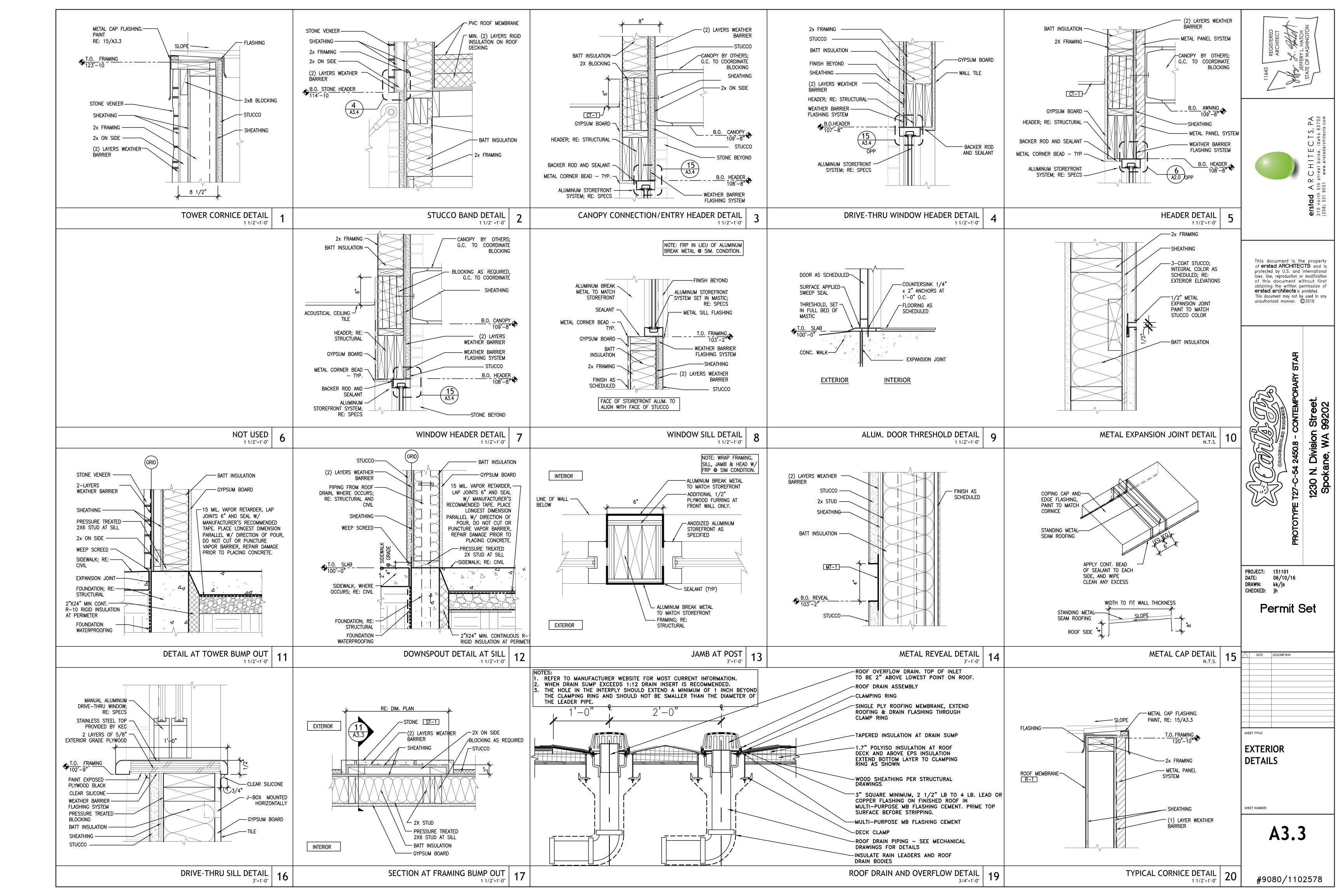
A2.2

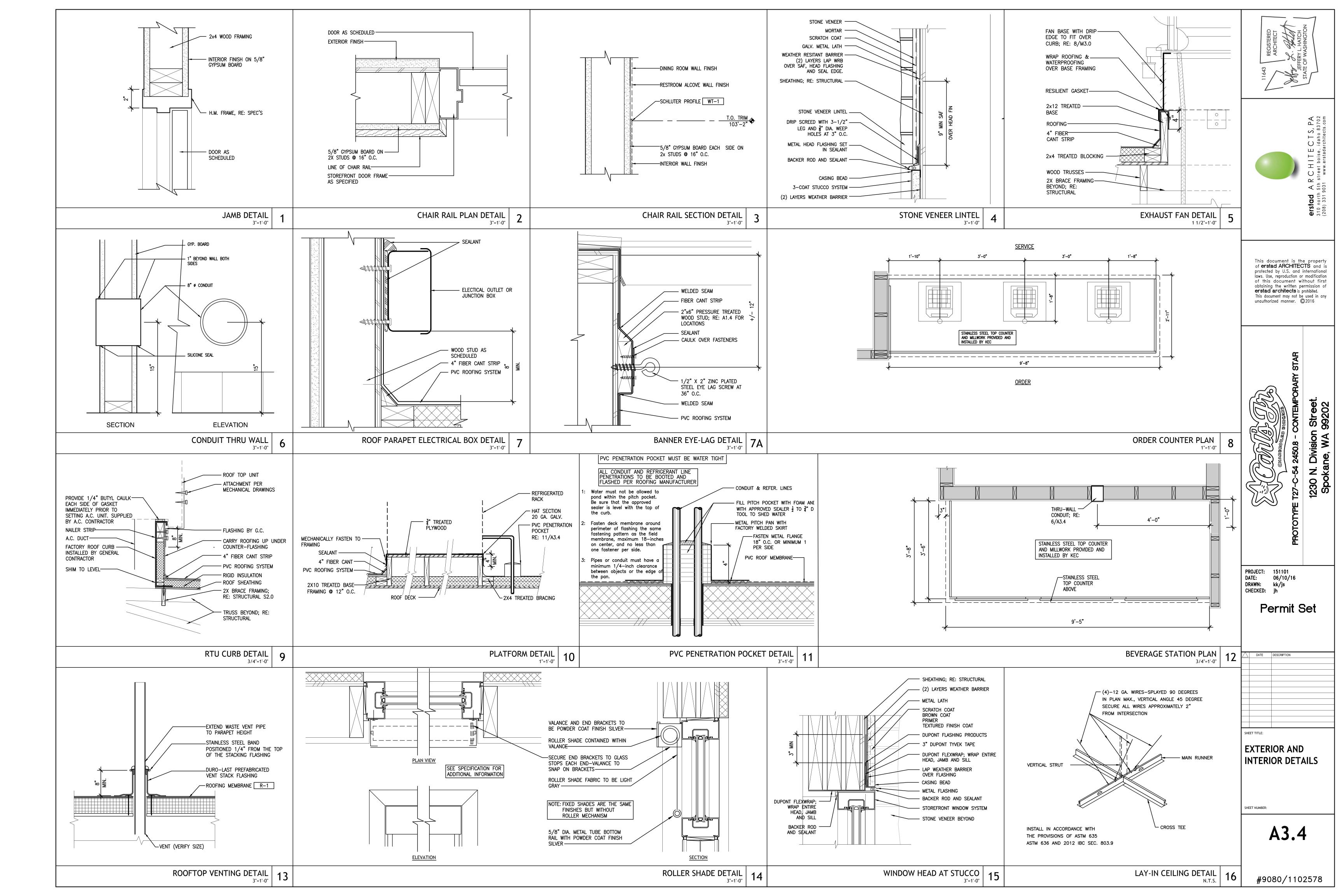


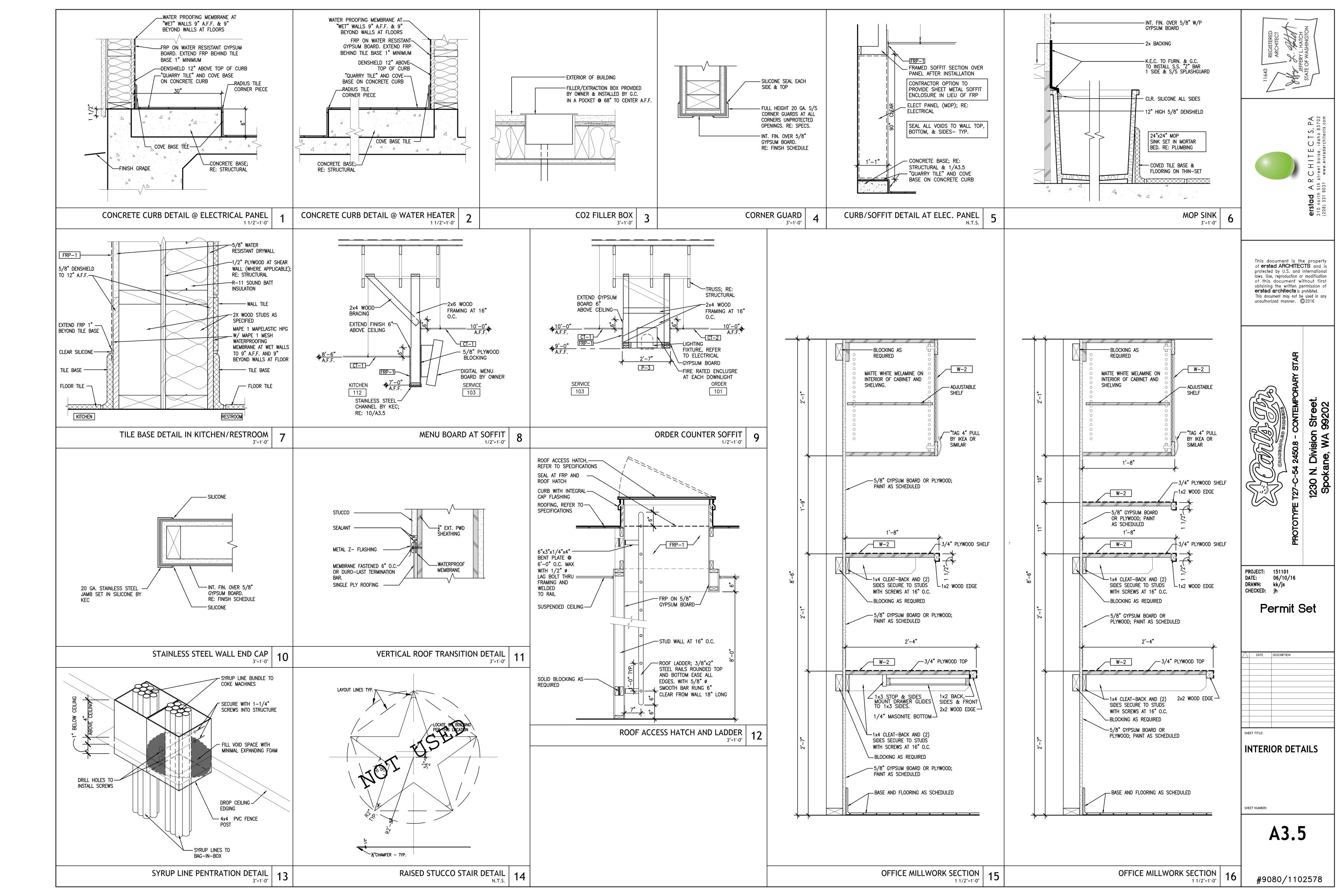












IEDULE LEGEND ITEM AND DESCRIPTION	MANUFACTURER/ SUPPLIER	APPLICATION	LOCATION	REMARKS	THE G.C. WILL BE RESPONSIBLE FOR NEATLY CAULKING THE	7
OOR & WALL TILE	MANUFACTURER/ SUPPLIER	AFFLICATION	LOCATION	REMARKS	FOLLOWING LOCATIONS: -ALL EXTERIOR WINDOWS TO INTERIOR WOOD TRIM.	SISTERED CHITECT CHITECT CHITECT HATCH SHINGTOI
FLOOR FIELD TILE: 12"X24" OLIVE BROWN; GROUT: LATICRETE, COLOR: #35 MOCHA	FIANDRE	PER MANUFACTURER'S SPECIFICATIONS	DINING ROOM	RE: FINISH PLAN A1.3	-ALL WALLCOVERING TO WOOD TRIM TRANSITIONSALL CERAMIC TILE INSIDE CORNERSALL DOOR JAMBS TO CERAMIC TILE, WOOD TRIM, OR	REGIS ARCH
NOT USED		DED MANUFACTURER'S OPERIFICATIONS	BACK OF HOUSE, OFFICE	RE: FINISH PLAN A1.3	1 WALLCOVERING -ALL KITCHEN CEILING GRID TO F.R.P.	JEFFE OF ATE OF
QUARRY TILE: 6"x6"x1/2", #86 ELEPHANT GREY, USE ABRASIVE ON ALL TRAFFIC AREAS; GROUT: CUSTOM BUILDING PRODUCTS #9 NATURAL GRAY		PER MANUFACTURER'S SPECIFICATIONS			-ALL CERAMIC TILE BASE TOP GROUT JOINTALL BATHROOM ACCESSORIES TO WALL SURFACE.	STATE
WALL FIELD TILE: 12"X24" NIHON YUKI, RUN HORIZONTALLY; GROUT: LATICRETE, COLOR: #35 MOCHA; JOINTS ARE 1/16"		PER MANUFACTURER'S SPECIFICATIONS	RESTROOMS	RE: FINISH PLAN A1.3	-ALL WOOD TRIM TO WAINSCOT *WHERE APPLICABLE, CAULK SHALL BE PAINTED TO MATCH ADJACENT TRIM.	
WALL ACCENT & FIELD TILE: 6"x36" ROVERE ABBRAZIA; GROUT: LATICRETE, COLOR: #35 MOCHA, JOINTS ARE 1/16"	FIANDRE	PER MANUFACTURER'S SPECIFICATIONS	WHERE USED AS ACCENT: BOTTOM OF STRIPE IS AT 66" A.F.F. FIELD WALL T WITH STAR, FRONT COUNTER & ADJACENT WALLS, ALSO ON DIVIDER WALLS A	TILE AS OPTION AT FEATURE WALL RE: INTERIOR ELEVATIONS AS AN OPTION	3'-8"	7 2
BASE TILE: 6"x12" OLIVE BROWN; GROUT: LATICRETE, COLOR: #35 MOCHA	EUROWEST	PER MANUFACTURER'S SPECIFICATIONS	BACK OF HOUSE, OFFICE, RSTROOMS	RE: INTERIOR ELEVATIONS	*PROVIDE OPERABLE DETAILS:	S, PA 83702
BASE TILE FOR QUARRY TILE: 6"X6"x2", #86 ELEPHANT GREY; GROUT: CUSTOM BUILDING PRODUCTS #9 NATURAL GRAY	SUMMITVILLE	PER MANUFACTURER'S SPECIFICATIONS	3" THICK LAMINATED WALL ELEMENT	RE: 1/K4.0	"HOPPER" WINDOW AT 5/A3.3 HEAD SIMILAR CONDITION \$\(\begin{array}{c} \begin{array}{c} \begi	O T D
L FINISH & TRIM					ON WEST ELEVATION. INSTALL SHEATHING ACCROSS OPENING ON	boise.
CORNER TRIM: RONDEC RO80AE, FINISH: SATIN ANODIZED ALUMINUM	SCHLUTER - CONTACT: (800) 472 4588				INTERIOR AND PAINT BLACK. CAULK ALL	C Tree T
FRP PANELING: MARLITE P-100 WHITE NT AND STAIN	MARLITE	SUPPLIED AND INSTALLED BY GC PER MANUFACTURE'S SPECIFICATION	ONS BACK OF HOUSE / ALT. FOR OFFICE	RE: INTERIOR ELEVATIONS	SEAMS.	A R
COLOR: BLACK FOX, SW 7020	SHERWIN WILLIAMS	PER MANUFACTURER'S SPECIFICATIONS, KNOCKDOWN TEXTURE	EXTERIOR: BASE UNDER WINDOW SILLS, TRIM; INTERIOR: TRIM AT CEILING, CEI	ILING RE: INTERIOR/EXTERIOR ELEVATIONS	FINISH: ALUM.	it o
DOVETAIL, SW 7018	SHERWIN WILLIAMS	PER MANUFACTURER'S SPECIFICATIONS, KNOCKDOWN TEXTURE	OFFICE DOOR AND FRAME, KITCHEN DOOR (INTERIOR) AND FRAME	RE: INTERIOR ELEVATIONS	WINDOW ELEVATION A	ers
BALANCED BEIGE, SW 7037	SHERWIN WILLIAMS	PER MANUFACTURER'S SPECIFICATIONS, KNOCKDOWN TEXTURE	ABOVE HORIZONTAL LINE LINED UP WITH WINDOW SILLS ON WALLS	RE: EXTERIOR ELEVATIONS	1/4"=1'-0"	
NOT USED COLOR: HEART THROB, SW 6866	SHERWIN WILLIAMS	PER MANUFACTURER'S SPECIFICATIONS, KNOCKDOWN TEXTURE	SOFFITS, TRIM, WALLS BEHIND T—30 CURVED FEATURE	RE: EXTERIOR ELEVATIONS		
COLOR: TANAGER, SW 6601	SHERWIN WILLIAMS SHERWIN WILLIAMS	PR MANUFACTURER'S SPECIFICATIONS, KNOCKDOWN TEXTURE	SOFFITS, BULKHEADS & CEILING ELEMENTS WALLS AT DINING ROOM, VESTIBULE, DOOR FRAMES, OFFICE	RE: INTERIOR ELEVATIONS RE: INTERIOR ELEVATIONS	DETAILS: 7/A3.3 HEAD	This document is the prope
COLOR: VIRTUAL TAUPE, SW 7039 COLOR: NOMADIC DESERT, SW 6107	SHERWIN WILLIAMS SHERWIN WILLIAMS	PER MANUFACTURER'S SPECIFICATIONS, KNOCKDOWN TEXTURE PER MANUFACTURER'S SPECIFICATIONS, KNOCKDOWN TEXTURE	TRIM ABOVE WINDOWS, RESTROOM DOOR FRAMES, RESTROOM CEILING	RE: INTERIOR ELEVATIONS RE: INTERIOR ELEVATIONS	18/A3.3 SILL	This document is the prope of erstad ARCHITECTS and protected by U.S. and internatio laws. Use, reproduction or modification
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PLASTIC LAMINATE: VALENCIA TEAK (TEXTURED) #WT0003T	NEVAMAR	PER MANUFACTURER'S SPECIFICATIONS	DIVIDER WALL FINISH (VERTICAL GRAIN), SLAT FINISH (HORIZONTAL GRAIN), TA BAR FROM HED (VERTICAL GRAIN), FACE OF BEVERAGE BAR FOR REMODELS (This document may not be used in unauthorized manner. ©2016
PLASTIC LAMINATE: ICONIC MAPLE (TEXTURED) #WM0047T	NEVAMAR	PER MANUFACTURER'S SPECIFICATIONS	FRONT COUNTER & SHAKE WALL (HORIZONTAL GRAIN), FEATURE WALL (HORIZ TABLE TOPS	ZONTAL GRAIN) RE: SEATING VENDOR/KEC	FINISH: ALUM.	
PLASTIC LAMINATE: LEGENDARY TEAK (TEXTURED) #WM0004T	NEVAMAR	PER MANUFACTURER'S SPECIFICATIONS	TABLE TOPS	RE: SEATING VENDOR/KEC	TINISTI. ALOM.	
PLASTIC LAMINATE: LIBERTY RED (TEXTURED) \$1027 PLASTIC LAMINATE: MODERN EDGE (TEXTURED) #WZ6004T	NEVAMAR NEVAMAR	PER MANUFACTURER'S SPECIFICATIONS PER MANUFACTURER'S SPECIFICATIONS	CEILING ELEMENTS TABLE TOPS, DRUM LIGHT, END TABLES	RE: SEATING VENDOR/KEC RE: SEATING VENDOR/KEC	WINDOW ELEVATION B	
PLASTIC LAMINATE: SATIN OXIDE (TEXTURED) #4832	WILSONART	PR MANUFACTURER'S SPECIFICATIONS	WAINSCOTING, DOORS TO RESTROOMS, TOILET PARTITIONS	RE: INTERIOR ELEVATIONS	1/4"=1'-0"	AA A
SEATING WALL METAL SUPPORT FINISH: STAINLESS STEEL #4 SOLID SURFACE: CORIAN CONCRETE	CORIAN	PER MANUFACTURER'S SPECIFICATIONS PER MANUFACTURER'S SPECIFICATIONS	SEATING WALLS SERVICE COUNTER TOP & SHAKE SCREEN TOP	RE: SEATING VENDOR/KEC RE: INTERIOR ELEVATIONS	 4'-0" 	
WINDOW ROLLER SHADE: MATERIAL: PHIFER STYLE 4100, COLOR: PEWTER	ROLL-A-SHADE - CONTACT: HED OR SANDY MCCOY	PER MANUFACTURER'S SPECIFICATIONS	MAIN DINING	RE: INTERIOR ELEVATIONS	DETAILS: 4/A3.3 HEAD 16 (A3.7 SUL)	RAR
TRIM - RONDEC BULLNOSE, FINISH: SATIN NICKEL ANODIZED ALUMINUM	SCHLUTER	PER MANUFACTURER'S SPECIFICATIONS	TILE — ALL OUTSIDE CORNERS AND WALL EDGES. CHAIR RALS AT WAINSCOT	T TRANSITIONS RE: INTERIOR ELEVATIONS	16/A3.3 SILL	et MPOR
INO				RE: RCP	MANUAL DRIVE-THRU WINDOW PER SPECS.	
2'X4' CEILING TILE: VL PH90 FIREGUARD #870 NON-PERFORATED ICBO #5173; 24"X48"	ARMSTRONG	PER MANUFACTURER'S SPECIFICATIONS	BACK OF HOUSE	NE. NOF		
SUSPENDED T-BAR		PER MANUFACTURER'S SPECIFICATIONS PER MANUFACTURER'S SPECIFICATIONS		RE: RCP		CONTEME
2'X4' CEILING TILE: VL PH90 FIREGUARD #870 NON-PERFORATED ICBO #5173; 24"X48" SUSPENDED T-BAR 2'X2' CEILING TILE: #764 GEORGIAN SQUARE LAY-IN - COLOR: WHITE. GRID: PRELUDE 15/16" - COLOR: WHITE	ARMSTRONG	PER MANUFACTURER'S SPECIFICATIONS	FRONT OF HOUSE	RE: RCP	FINISH: ALUM. EXTERIOR 7	8 - 6 In the second sec
SUSPENDED T-BAR 2'X2' CEILING TILE: #764 GEORGIAN SQUARE LAY-IN - COLOR: WHITE. GRID: PRELUDE 15/16" - COLOR: WHITE 2'X2' CEILING TILE: #1728 FINE FISSURED SQUARE LAY-IN - COLOR: TECH BLACK. GRID PRELUDE 15/16" - COLOR: TECH BLACK. PROVIDE 6" AXIOM TRIM, COLOR: TECH BLACK	ARMSTRONG D: ARMSTRONG					8 - 8 - 0 is
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SUSPENDED T-BAR 2'X2' CEILING TILE: #764 GEORGIAN SQUARE LAY-IN - COLOR: WHITE. GRID: PRELUDE 15/16" - COLOR: WHITE 2'X2' CEILING TILE: #1728 FINE FISSURED SQUARE LAY-IN - COLOR: TECH BLACK. GRID PRELUDE 15/16" - COLOR: TECH BLACK. PROVIDE 6" AXIOM TRIM, COLOR: TECH BLACK AT TRANSITION TO CT-2. ERIOR FINISH COLOR INTEGRAL AT STUCCO/EIFS - SAND FINISH, COLOR: P-1 COLOR INTEGRAL AT STUCCO/EIFS - SAND FINISH, COLOR: P-2 COLOR INTEGRAL AT STUCCO/EIFS - SAND FINISH, COLOR: P-3 ACM MB126 APPLE RED. APOLIC BBR, 4 MM PE COLOR INTEGRAL AT STUCCO/EIFS - SAND FINISH, COLOR: P-5 STONE VENEER: HONEY LEDGE 4" METAL CHANNEL SCREED: PCS-75-400, USE PCS-25-300 3" WHEN EIFS IS USED F SINGLE-PLY ROOFING SYSTEM; COLOR: WHITE VE TOWER PAINT SPECIFICATIONS DOOR TO REMAIN	ARMSTRONG SHERWIN WILLIAMS SHERWIN WILLIAMS SHERWIN WILLIAMS ALPOLIC - DAVE KEARNEY 800-422-7270 Dave@Apolic.com SHERWIN WILLIAMS CORONADO STONE PRODUCTS MEREDITH ZEIGLER 949.254.0046 FRY REGLET DUROLAST ROOFING	PER MANUFACTURER'S SPECIFICATIONS	FRONT OF HOUSE FRONT OF HOUSE LOWER ACCENT BAND, UPPER METAL CAP UPPER REAR EXTERIOR WALLS, TOWER WALLS UPPER FRONT EXTERIOR WALLS EXTERIOR LOWER EXTERIOR WALLS EXTERIOR MAIN BUILDING AND TOWERS DETAILS: 1/A3.4 JAMB 5/A3.3 HEAD	RE: RCP RE: RCP RE: EXTERIOR ELEVATIONS RE: ROOF PLAN DETAILS: 1/A3.4 JAMB 1/A3.4 HEAD SIM. RESTROOM SIGNAGE; RE:	WINDOW ELEVATION 1/4"=1"-0" DETAILS: 7/A3.3 HEAD DETAILS: 1/A3.4 JAMB	PROTOTYPE T27-C-54 2450.8 - (CHECKED: jh
SUSPENDED T-BAR 2'X2' CEILING TILE: #764 GEORGIAN SQUARE LAY-IN - COLOR: WHITE. GRID: PRELUDE 15/16" - COLOR: WHITE 2'X2' CEILING TILE: #1728 FINE FISSURED SQUARE LAY-IN - COLOR: TECH BLACK. GRI PRELUDE 15/16" - COLOR: TECH BLACK. PROVIDE 6" AXIOM TRIM, COLOR: TECH BLACK AT TRANSITION TO CT-2. IRIOR FINISH COLOR INTEGRAL AT STUCCO/EIFS - SAND FINISH, COLOR: P-1 COLOR INTEGRAL AT STUCCO/EIFS - SAND FINISH, COLOR: P-2 COLOR INTEGRAL AT STUCCO/EIFS - SAND FINISH, COLOR: P-3 ACM MB126 APPLE RED. APOLIC BBR, 4 MM PE COLOR INTEGRAL AT STUCCO/EIFS - SAND FINISH, COLOR: P-5 STONE VENEER: HONEY LEDGE 4" METAL CHANNEL SCREED: PCS-75-400, USE PCS-25-300 3" WHEN EIFS IS USED F SINGLE-PLY ROOFING SYSTEM; COLOR: WHITE VE TOWER PAINT SPECIFICATIONS DOOR TO REMAIN UNLOCKED NOTE "THIS DOOR TO "THIS DOOR TO TO STONE VENEER: HONEY LEDGE ALL HAVE SIGN "THIS DOOR TO DOOR TO REMAIN UNLOCKED NOTE	ARMSTRONG SHERWIN WILLIAMS SHERWIN WILLIAMS SHERWIN WILLIAMS ALPOLIC - DAVE KEARNEY 800-422-7270 Dave@Apolic.com SHERWIN WILLIAMS CORONADO STONE PRODUCTS MEREDITH ZEIGLER 949.254.0046 FRY REGLET DUROLAST ROOFING REMARKS: 1. ① TEMPERED GLAZING	PER MANUFACTURER'S SPECIFICATIONS	FRONT OF HOUSE FRONT OF HOUSE LOWER ACCENT BAND, UPPER METAL CAP UPPER REAR EXTERIOR WALLS, TOWER WALLS UPPER FRONT EXTERIOR WALLS EXTERIOR LOWER EXTERIOR WALLS EXTERIOR MAIN BUILDING AND TOWERS DETAILS: 1/A3.4 JAMB 5/A3.3 HEAD	RE: RCP RE: RCP RE: RCP RE: EXTERIOR ELEVATIONS RE: AND PLAN DETAILS: 1/A3.4 JAMB 1/A3.4 HEAD SIM. RESTROOM SIGNAGE; RE: 1/A0.2 - RE A1.6 FOR ACCESSIBLE SIGNAGE	WINDOW ELEVATION 1/4"=1"-0" DETAILS: 7/A3.3 HEAD WINDOW ELEVATION 1/4"=1"-0" DETAILS: 1/A3.4 JAMB 1/A3.4 HEAD SIM.	BEOTOTYPE T27-C-54 2450.8 - (1230 N. Division
SUSPENDED T-BAR 2'X2' CEILING TILE: #764 GEORGIAN SQUARE LAY-IN - COLOR: WHITE. GRID: PRELUDE 15/16" - COLOR: WHITE 2'X2' CEILING TILE: #1728 FINE FISSURED SQUARE LAY-IN - COLOR: TECH BLACK. GRID 2'X2' CEILING TILE: #1728 FINE FISSURED SQUARE LAY-IN - COLOR: TECH BLACK. GRID 2'X2' CEILING TILE: #1728 FINE FISSURED SQUARE LAY-IN - COLOR: TECH BLACK. GRID 2'X2' CEILING TILE: #1728 FINE FISSURED SQUARE LAY-IN - COLOR: TECH BLACK. GRID 2'X2' CEILING TILE: #1728 FINE FISSURED SQUARE LAY-IN - COLOR: TECH BLACK. GRID 2'X2' CEILING TILE: #1728 FINE FISSURED SQUARE LAY-IN - COLOR: TECH BLACK. GRID 2'X2' CEILING TILE: #1728 FINE FISSURED SQUARE LAY-IN - COLOR: TECH BLACK. GRID 2'X2' CEILING TILE: #1728 FINE FISSURED SQUARE LAY-IN - COLOR: TECH BLACK. GRID 2'X2' CEILING TILE: #1728 FINE FISSURED SQUARE LAY-IN - COLOR: TECH BLACK. GRID 2'X2' CEILING TILE: #1728 FINE FISSURED SQUARE LAY-IN - COLOR: TECH BLACK. GRID 2'X2' CEILING TILE: #1728 FINE FISSURED SQUARE LAY-IN - COLOR: TECH BLACK. GRID 2'X2' CEILING TILE: #1728 FINE FISSURED SQUARE LAY-IN - COLOR: TECH BLACK. GRID 2'X2' CEILING TILE: #1728 FINE FISSURED SQUARE LAY-IN - COLOR: TECH BLACK. GRID 2'X2' CEILING TILE: #1728 FINE FISSURED SQUARE LAY-IN - COLOR: TECH BLACK. GRID 2'X2' CEILING TILE: #1728 FINE FISSURED SQUARE LAY-IN - COLOR: TECH BLACK. GRID 2'X2' CEILING TILE: #1728 FINE FISSURED SQUARE LAY-IN - COLOR: TECH BLACK. GRID 2'X2' CEILING TILE: #1728 FINE FISSURED SQUARE LAY-IN - COLOR: TECH BLACK. GRID 2'X2' CEILING TILE: #1728 FINE FISSURED SQUARE LAY-IN - COLOR: TECH BLACK. GRID 2'X2' CEILING TILE: #1728 FINE FISSURED SQUARE LAY-IN - COLOR: TECH BLACK. GRID 2'X2' CEILING TILE: #1728 FINE FISSURED SQUARE LAY-IN - COLOR: TECH BLACK. GRID 2'X2' CEILING TILE: #1728 FINE FISSURED SQUARE LAY-IN - COLOR: TECH BLACK. GRID 2'X2' CEILING TILE: #1728 FINE FISSURED SQUARE LAY-IN - COLOR: TECH BLACK. GRID 2'X2' CEILING TILE: #1728 FINE FISSURED SQUARE LAY-IN - COLOR: TECH BLACK. GRID 2'X2' CEILING TILE: #1728 FINE FISSURED SQUARE LAY-IN - COLOR: TE	ARMSTRONG SHERWIN WILLIAMS SHERWIN WILLIAMS SHERWIN WILLIAMS ALPOLIC - DAVE KEARNEY 800-422-7270 Dave@Apolic.com SHERWIN WILLIAMS CORONADO STONE PRODUCTS MEREDITH ZEIGLER 949.254.0046 FRY REGLET DUROLAST ROOFING REMARKS: 1. ① TEMPERED GLAZING (COMPLY WITH LOCAL CODE)	PER MANUFACTURER'S SPECIFICATIONS	FRONT OF HOUSE LOWER ACCENT BAND, UPPER METAL CAP UPPER REAR EXTERIOR WALLS, TOWER WALLS UPPER FRONT EXTERIOR WALLS EXTERIOR LOWER EXTERIOR WALLS EXTERIOR MAIN BUILDING AND TOWERS DETAILS: 1/A3.4 JAMB 5/A3.3 HEAD SIM.	RE: RCP RE: RCP RE: RCP RE: EXTERIOR ELEVATIONS RE: ROOF PLAN DETAILS: 1/A3.4 JAMB 1/A3.4 HEAD SIM. RESTROOM SIGNAGE; RE: 1/A0.2 - RE A1.6 FOR	WINDOW ELEVATION 1/4"=1"-0" DETAILS: 7/A3.3 HEAD DETAILS: 1/A3.4 JAMB 1/A3.4 HEAD SIM. DETAILS: 1/A3.4 JAMB 1/A3.4 HEAD SIM.	PROJECT: 151101 DATE: 06/10/16 DRAWN: kk/js CHECKED: jh PROTOTYPE T27-C-54 2450.8 - (1230 N. Division)
SUSPENDED T-BAR 2'X2' CEILING TILE: #764 GEORGIAN SQUARE LAY-IN - COLOR: WHITE. GRID: PRELUDE 15/16" - COLOR: WHITE 2'X2' CEILING TILE: #1728 FINE FISSURED SQUARE LAY-IN - COLOR: TECH BLACK. GRID PRELUDE 15/16" - COLOR: TECH BLACK. PROVIDE 6" AXIOM TRIM, COLOR: TECH BLACK. AT TRANSITION TO CT-2. ERIOR FINISH COLOR INTEGRAL AT STUCCO/EIFS - SAND FINISH, COLOR: P-1 COLOR INTEGRAL AT STUCCO/EIFS - SAND FINISH, COLOR: P-2 COLOR INTEGRAL AT STUCCO/EIFS - SAND FINISH, COLOR: P-3 ACM MB126 APPLE RED. APOLIC BBR, 4 MM PE COLOR INTEGRAL AT STUCCO/EIFS - SAND FINISH, COLOR: P-5 STONE VENEER: HONEY LEDGE 4" METAL CHANNEL SCREED: PCS-75-400, USE PCS-25-300 3" WHEN EIFS IS USED F SINGLE-PLY ROOFING SYSTEM; COLOR: WHITE VE TOWER PAINT SPECIFICATIONS ED GLAZING H LOCAL CODE) ALL HAVE SIGN "THIS DOOR TO DOCKED WHEN OCCUPIED" THE SIGNAGE AS REQUIRED	ARMSTRONG SHERWIN WILLIAMS SHERWIN WILLIAMS SHERWIN WILLIAMS ALPOLIC - DAVE KEARNEY 800-422-7270 Dave@Apolic.com SHERWIN WILLIAMS CORONADO STONE PRODUCTS MEREDITH ZEIGLER 949.254.0046 FRY REGLET DUROLAST ROOFING REMARKS: 1. ① TEMPERED GLAZING (COMPLY WITH LOCAL CODE)	PER MANUFACTURER'S SPECIFICATIONS	FRONT OF HOUSE FRONT OF HOUSE LOWER ACCENT BAND, UPPER METAL CAP UPPER REAR EXTERIOR WALLS, TOWER WALLS UPPER FRONT EXTERIOR WALLS EXTERIOR LOWER EXTERIOR WALLS EXTERIOR MAIN BUILDING AND TOWERS DETAILS: 1/A3.4 JAMB 5/A3.3 HEAD SIM. SCOPE PANIC DEVICE	RE: RCP RE: RCP RE: EXTERIOR ELEVATIONS RE: ROOF PLAN DETAILS: 1/A3.4 JAMB 1/A3.4 HEAD SIM. SIM. RESTROOM SIGNAGE; RE: 1/A0.2 - RE A1.6 FOR ACCESSIBLE SIGNAGE REQUIREMENTS RESTROOM SIGNAGE REQUIREMENTS	WINDOW ELEVATION 6'-4" DETAILS: 7/A3.3 HEAD WINDOW ELEVATION 1/4"=1"-0" DETAILS: 1/A3.4 JAMB 1/A3.4 HEAD SIM. TRANSFER GRILLE AT OFFICE 108 12" KICK PLATE ON	PROJECT: 151101 DATE: 06/10/16 DRAWN: kk/js CHECKED: jh PROTOTYPE T27-C-54 2450.8 - (Division)
SUSPENDED T-BAR 2'X2' CEILING TILE: #764 GEORGIAN SQUARE LAY-IN - COLOR: WHITE. GRID: PRELUDE 15/16" - COLOR: WHITE 2'X2' CEILING TILE: #1728 FINE FISSURED SQUARE LAY-IN - COLOR: TECH BLACK. GRIL PRELUDE 15/16" - COLOR: TECH BLACK. PROVIDE 6" AXIOM TRIM, COLOR: TECH BLACK AT TRANSITION TO CT-2. FRIOR FINISH COLOR INTEGRAL AT STUCCO/EIFS - SAND FINISH, COLOR: P-1 COLOR INTEGRAL AT STUCCO/EIFS - SAND FINISH, COLOR: P-2 COLOR INTEGRAL AT STUCCO/EIFS - SAND FINISH, COLOR: P-3 ACM MB126 APPLE RED. APOLIC BBR, 4 MM PE COLOR INTEGRAL AT STUCCO/EIFS - SAND FINISH, COLOR: P-5 STONE VENEER: HONEY LEDGE 4" METAL CHANNEL SCREED: PCS-75-400, USE PCS-25-300 3" WHEN EIFS IS USED F SINGLE-PLY ROOFING SYSTEM; COLOR: WHITE VE TOWER PAINT SPECIFICATIONS PDOOR TO REMAIN UNLOCKED NOTE OCKED WHEN THIS DOOR TO OCKED WHEN ADA SIGNAGE AS	ARMSTRONG SHERWIN WILLIAMS SHERWIN WILLIAMS SHERWIN WILLIAMS ALPOLIC - DAVE KEARNEY 800-422-7270 Dave@Apolic.com SHERWIN WILLIAMS CORONADO STONE PRODUCTS MEREDITH ZEIGLER 949.254.0046 FRY REGLET DUROLAST ROOFING REMARKS: 1. ① TEMPERED GLAZING (COMPLY WITH LOCAL CODE)	PER MANUFACTURER'S SPECIFICATIONS	FRONT OF HOUSE FRONT OF HOUSE LOWER ACCENT BAND, UPPER METAL CAP UPPER REAR EXTERIOR WALLS, TOWER WALLS UPPER FRONT EXTERIOR WALLS EXTERIOR LOWER EXTERIOR WALLS EXTERIOR MAIN BUILDING AND TOWERS DETAILS: 1/A3.4 JAMB 5/A3.3 HEAD SIM. SCOPE PANIC DEVICE	RE: RCP RE: RCP RE: EXTERIOR ELEVATIONS RE: ROOF PLAN RE: ROOF PLAN RESTROOM SIGNAGE; RE: 1/A0.2 - RE A1.6 FOR ACCESSIBLE SIGNAGE REQUIREMENTS REQUIREMENTS RESTROOM SIGNAGE; RE: 1/A0.2 - RE A1.6 FOR ACCESSIBLE SIGNAGE REQUIREMENTS REQUIREMENTS RESTROOM SIGNAGE; RE: 1/A0.2 - RE A1.6 FOR ACCESSIBLE SIGNAGE REQUIREMENTS REQUIREMENTS RESTROOM SIGNAGE; RE: 1/A0.2 - RE A1.6 FOR ACCESSIBLE SIGNAGE REQUIREMENTS REQUIREMENTS	WINDOW ELEVATION 1/4'=1'-0' DETAILS: 7/A3.3 HEAD WINDOW ELEVATION 1/4'=1'-0' DETAILS: 1/A3.4 JAMB 1/A3.4 HEAD SIM TRANSFER GRILLE AT OFFICE 108	PROJECT: 151101 DATE: 06/10/16 DRAWN: kk/js CHECKED: jh PROTOTYPE T27-C-54 2450.8 - (1230 N. Division)
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SUSPENDED T-BAR 2'X2' CEILING TILE: #764 GEORGIAN SQUARE LAY-IN - COLOR: WHITE. GRID: PRELUDE 15/16" - COLOR: WHITE 2'X2' CEILING TILE: #1728 FINE FISSURED SQUARE LAY-IN - COLOR: TECH BLACK. GRID PRELUDE 15/16" - COLOR: TECH BLACK. PROVIDE 6" AXIOM TRIM, COLOR: TECH BLACK AT TRANSITION TO CT-2. ERIOR FINISH COLOR INTEGRAL AT STUCCO/EIFS - SAND FINISH, COLOR: P-1 COLOR INTEGRAL AT STUCCO/EIFS - SAND FINISH, COLOR: P-2 COLOR INTEGRAL AT STUCCO/EIFS - SAND FINISH, COLOR: P-3 ACM MB126 APPLE RED. APOLIC BBR, 4 MM PE COLOR INTEGRAL AT STUCCO/EIFS - SAND FINISH, COLOR: P-5 STONE VENEER: HONEY LEDGE 4" METAL CHANNEL SCREED: PCS-75-400, USE PCS-25-300 3" WHEN EIFS IS USED DF SINGLE-PLY ROOFING SYSTEM; COLOR: WHITE EXPE TOWER PAINT SPECIFICATIONS THIS DOOR TO LOCKED WHEN S'THIS DOOR TO LOCKED WHEN S'THIS DOOR TO LOCKED WHEN S OCCUPIED" DOOR (2) KAWNEER: 3' X 7' X 1 3/4" 350 MEDIUM STILE GL X AL WITH PANELINE MIDPANEL PANIC DEVICE. ROTON CONTINIOUS HINGE WITH	ARMSTRONG SHERWIN WILLIAMS SHERWIN WILLIAMS SHERWIN WILLIAMS ALPOLIC - DAVE KEARNEY 800-422-7270 Dave@Apolic.com SHERWIN WILLIAMS CORONADO STONE PRODUCTS MEREDITH ZEIGLER 949.254.0046 FRY REGLET DUROLAST ROOFING REMARKS: 1. ① TEMPERED GLAZING (COMPLY WITH LOCAL CODE) DOOR (1) KAWNEER: 3' X 7' X 1 3/4" 350 MEDIPANELINE MIDPANEL PANIC DEVICE. ROTON	PER MANUFACTURER'S SPECIFICATIONS FINISH: EF-2 ENDIANCE OF THE PROPERTY OF THE PROP	FRONT OF HOUSE FRONT OF HOUSE LOWER ACCENT BAND, UPPER METAL CAP UPPER REAR EXTERIOR WALLS, TOWER WALLS EXTERIOR LOWER EXTERIOR WALLS EXTERIOR MAIN BUILDING AND TOWERS DETAILS: 1/A3.4 JAMB 5/A3.3 HEAD SIM. EXTERIOR/ INTERIOR/ INTERIOR/ INTERIOR/ FRONT OF HOUSE DETAILS: 1/A3.4 JAMB 5/A3.3 HEAD SIM.	RE: RCP RE: RCP RE: RCP RE: EXTERIOR ELEVATIONS RE: ROOF PLAN P-7 FRAME FINISH: PL-6 DOOR RESTROOM SIGNAGE; RE: 1/A0.2 - RE A1.6 FOR ACCESSIBLE SIGNAGE REQUIREMENTS 8" KICK PLATE ON PUSH SIDE ONLY. 1" UNDERCUT DOOR	WINDOW ELEVATION 1/4"-1'-0" DETAILS: 7/A3.3 HEAD DETAILS: 1/A3.4 JAMB 1/A3.4 HEAD SIM. FINISH: PL DOOR PDSH SIDE ONLY. PL-2 FRAME WINDOW ELEVATION DETAILS: 1/A3.4 JAMB 1/A3.4 HEAD SIM. FINISH: PL DOOR PUSH SIDE ONLY. 1" UNDERCUT DOOR	PROJECT: 151101 DATE: 06/10/16 DRAWN: kk/js CHECKED: jh PROTOTYPE T27-C-54 2450.8 - (1230 N. Division)
SUSPENDED T-BAR 2'X2' CEILING TILE: #764 GEORGIAN SQUARE LAY-IN - COLOR: WHITE. GRID: PRELUDE 15/16" - COLOR: WHITE 2'X2' CEILING TILE: #728 FINE FISSURED SQUARE LAY-IN - COLOR: TECH BLACK, GRI PRELUDE 15/16" - COLOR: TECH BLACK, PROVIDE 6" AXIOM TRIM, COLOR: TECH BLACK AT TRANSITION TO CT-2. ERIOR FINISH COLOR INTEGRAL AT STUCCO/EIFS - SAND FINISH, COLOR: P-1 COLOR INTEGRAL AT STUCCO/EIFS - SAND FINISH, COLOR: P-2 COLOR INTEGRAL AT STUCCO/EIFS - SAND FINISH, COLOR: P-3 ACM MB126 APPLE RED. APOLIC BBR, 4 MM PE COLOR INTEGRAL AT STUCCO/EIFS - SAND FINISH, COLOR: P-5 STONE VENEER: HONEY LEDGE 4" METAL CHANNEL SCREED: PCS-75-400, USE PCS-25-300 3" WHEN EIFS IS USED DF SINGLE-PLY ROOFING SYSTEM; COLOR: WHITE RVE TOWER PAINT SPECIFICATIONS CRED GLAZING OF THIS DOOR TO LOCKED WHEN SOCCUPIED" DOOR (2) KAWNEER: 3' X 7' X 1 3/4" 350 MEDIUM STILE GL X AL WITH PANELINE MIDPANEL PANIC DEVICE. ROTON CONTINIOUS HINGE WITH LIP CONCEALED LEAF TYPE AND CYLINDER LOCK INCLUDED HARDWARE	ARMSTRONG SHERWIN WILLIAMS SHERWIN WILLIAMS SHERWIN WILLIAMS ALPOLIC - DAVE KEARNEY 800-422-7270 Dave@Apolic.com SHERWIN WILLILAMS CORONADO STONE PRODUCTS MEREDITH ZEIGLER 949.254.0046 FRY REGLET DUROLAST ROOFING REMARKS: 1. ① TEMPERED GLAZING (COMPLY WITH LOCAL CODE) PANELINE MIDPANEL PANIC DEVICE. ROTON LIP CONCEALED LEAF TYPE AND CYLINDER L HARDWARE	PER MANUFACTURER'S SPECIFICATIONS FINISH: EF-2 E P-2 INJUM STILLE GL X AL WITH CONTINIOUS HINGE WITH LOCK INCLUDED FLUSTIONS FILES (L X AL WITH LOCK INCLUDED) (1)	FRONT OF HOUSE FRONT OF HOUSE LOWER ACCENT BAND, UPPER METAL CAP UPPER REAR EXTERIOR WALLS, TOWER WALLS EXTERIOR LOWER EXTERIOR WALLS EXTERIOR MAIN BUILDING AND TOWERS MAIN BUILDING AND TOWERS DETAILS: 1/A3.4 JAMB 5/A3.3 HEAD SIM. SCOPE PANIC DEVICE PANIC DEVICE TOWN METAL FRAME HARDWARE 84" FULL LENGTH ROTON HINGE #780—112 HD ROTON — SATIN	RE: RCP RE: RCP RE: RCP RE: EXTERIOR ELEVATIONS RE: ROOF PLAN RE: ROOF PLAN PETAILS: 1/A3.4 JAMB 1/A3.4 HEAD SIM. RESTROOM SIGNAGE; RE: 1/A0.2 - RE A1.6 FOR ACCESSIBLE SIGNAGE REQUIREMENTS RESTROOM SIGNAGE; RE: 1/A0.2 - RE A1.6 FOR ACCESSIBLE SIGNAGE REQUIREMENTS RESTROOM SIGNAGE; RE: 1/A0.2 - RE A1.6 FOR ACCESSIBLE SIGNAGE REQUIREMENTS TO NOT THE PLANE DOOR 1 3/4" SOLID CORE DOOR W/ HOLLOW METAL FRAME	WINDOW ELEVATION 1/4"-1'-0" DETAILS: 7/A3.3 HEAD TRANSFER GRILLE AT OFFICE 108 1/A3.4 HEAD SIM FINISH: PL DOOR 1 3/4" FLUSH SOLID CORE WOOD DOOR W/ HOLLOW METAL FRAME HARDWARE (1 1/2 PR.) HINGES FBB179 (BALL BEARING) 4.5 X 4.5 - STANLEY	PROJECT: 151101 DATE: 06/10/16 DRAWN: kk/js CHECKED: jh PROTOTYPE T27-C-54 2450.8 - (Division)
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DIVISION-1 GENERAL REQUIREMENTS SECTION 1.1 SUMMARY OF THE WORK 1.1.1 <u>SCOPE</u>

The work encompassed in this project is the construction of a Carl's Jr. Restaurant coordination of equipment installation (OWNER furnished items), and related site work for

parking and landscaping, complete and ready for operations.

1.1.2 CONTRACTORS Where Contractor is referred to in this General Requirements Division, it shall mean General

Contractor/Subcontractor, unless noted otherwise. A. The Contractor shall examine the condition of the project area prior to commencement of work and shall be responsible for coordination of all trades including those items furnished

B. Sub-contractors shall, in the work of their trades, perform any and all cutting, patching, repairing, restoring, and the like necessary to complete the work and to restore an damaged or affected surfaces resulting from the work of this contract to their original condition to the satisfaction of the Owner.

1.1.3 SEPARATE CONTRACTS

OWNER reserves the right to let other contracts in connection with this work. When that occurs, the Contractor shall cooperate with all owner supplied Contractors.

1.1.4 INTENT OF DOCUMENTS

A. It is the intent of the documents to require the completion of all work in a thorough and workmanlike manner in every respect. Should there be anything necessary for completion of the work according to the full intent and meaning of the Contract Documents, the work shall be completed in every respect. Should there be anything necessary for the completion of the work according to the full intent and meaning of the Contract Documents, the work shall be no extra cost against OWNER and/or OWNER's representative for such labor.

B. Should a bidder find discrepancies in, or omissions from, the drawings or specifications, or should be be in doubt as to their meaning, he shall at once notify OWNER. If it should be SECTION 1.11 CLEAN-UP necessary, a written addendum will be sent to each bidder. OWNER will not be responsible for any verbal instructions. It shall be the Contractor's responsibility to verify with OWNER prior to bid time, whether any addenda have been issued.

C. Any omissions or conflicts between various elements on the plans and specifications shall be brought to the attention of OWNER before proceeding with any work.

D. General Contractor shall coordinate with the Sub-contractors to identify any conflicts among the works of various trades and notify OWNER. Any identified conflicts and their resolutions shall be reviewed and approved by OWNER.

E. Finishes and materials omitted or unclear shall be verified with OWNER prior to submission

1.1.5 DUST CONTROL

During the entire course of construction, the Contractor shall employ satisfactory methods of dust control on the site, with particular attention given to parking areas. Control shall occur a minimum of twice a day during periods of low rainfall, when water is the controlling agent.

1.1.6 N.I.C.

Items shown on the Plans but marked N.I.C. are not included in this Contract.

1.1.7 PROJECT COORDINATION

Contractor to provide coordination of all trades involved in the separate Divisions of thi Contract to secure the best arrangement of work of each Division with the work of other

1.1.8 PROTECTION OF WORK

The Contractor shall provide or allow for, adequate protection of OWNER provided equipment. fresh concrete surface, new construction materials, and non established lawn areas until surfaces are no longer susceptible to damage.

1.1.9 COOPERATION

All Contractors shall in every reasonable way cooperate with the other Contractors doing work in the same vicinity.

1.1.10 EXISTING FACILITIES

1.1.11 FURNISHED BY OWNER

Existing facilities, adjacent property and trees and shrubbery that are not to be removed, shall be protected from injury or damage resulting from the Contractor's operations.

Some items will be furnished by the owner or their vendor. See Equipment Schedule on sheet K1.1 of plans, electrical and mechanical drawings. Note "Install" column or notes as some items are provided by others but are to be installed by the General Contractor. Where plans do NOT note "provided by other" or "Provided By Owner", the General Contractor is to include in his bid and scope of work. If within the plans these notes appear unclear or contradictory. they shall be questioned during the bid process. It shall be the sole responsibility of the Contractor to contact all of the OWNER's vendors to coordinate and schedule these items with his work. OWNER will provide a list of vendors to the G.C.

1.1.12 MATERIALS AND WORKMANSHIP

All materials shall be new and of quality acceptable to OWNER and shall meet ASTM standards Condemned materials shall be promptly removed and any damage caused by such removal, made good by Contractor at his own expense.

1.1.13 LAYING OUT WORK

Each Contractor shall, immediately upon entering project site for purpose of beginning work, locate all general reference points and take action as is necessary to prevent their destruction; lay out his own work and be responsible for all lines, paving, utilities and other work executed by him under the Contract. He shall immediately notify ARCHITECT should any discrepancies arise before proceeding with the work.

1.1.14 LIMITS OF CONSTRUCTION

Each Contractor shall include in his bid. all work within the designation "Limits of B.Work done in other sections: Construction" (Limits are approximate) as shown on the plans. If the connection of the utilities run beyond the "Limits of Construction" the Contractor shall include and be responsible for the connections of all utilities, as required. See plans for points of connection.

1.1.15 **EQUIPMENT**

OWNER will furnish and install certain items of equipment, including but not limited to, seating, and kitchen equipment. These items shall be coordinated by the Contractor, and scheduled with his work. It shall be the sole responsibility of the General Contractor to contact all of the OWNER's vendors to coordinate and schedule these items with his work. OWNER will provide a list of vendors to the G.C. The Contractor shall be held responsible for all final utility connections to the equipment and fixtures provided by OWNER. Any costs involved, shall be included in the Contractors bid.

1.1.19 CITY BUSINESS LICENSE

The Contractor shall obtain, at his own expense, a City Business License, upon award of this contract. A copy of this license shall be provided to OWNER prior to the Contractor starting his portion of work.

SECTION 1.2 INSPECTIONS

1.2.1 A. Each Contractor shall comply with all inspections of local building authorities, and include in his bid, all costs for doing so.

SECTION 1.3 REQUIRED DOCUMENTS

1.3.1 All required documents will be delivered by the Contractor to OWNER unless directed otherwise Where required, documents shall be prepared on current edition of A.I.A. Documents.

1.3.2 All documents required by the local authority such as CalGreen verification of Construction Waste Reduction, Disposal & Recycling are the responsibility of the contractor. Cal Green Code 5.408.3.

SECTION 1.4 TEMPORARY FACILITIES

1.4.1 Refer to Article 14.4 of General Conditions.

SECTION 1.5 INSURANCE

1.5.1 Refer to Article 10 of General Conditions

SECTION 1.6 CHANGES, EXTRAS, SUBSTITUTIONS

1.6.1 Refer to Article 14.5 of General Conditions. SECTION 1.7 PROJECT CLOSFOLIT

1.7.1 Refer to Article 14.6 of General Conditions.

SECTION 1.8 COMPLETION

1.8.1 Refer to Article 14.7 of General Conditions

1.9.1 Refer to Article 14.8 of General Conditions.

SECTION 1.10 PERMITS. FEES AND ASSESSMENTS

.10.1 Each contractor shall include in his bid costs for permits, licenses, fees or assessments necessary to complete their portion of work.

1.11.1 Refer to Article 14.11 of General Conditions.

SECTION 1.12 TEMPORARY SIGNS

.12.1 Refer to Article 14.12 of General Conditions.

SECTION 1.13 PROJECT SECURITY

1.13.1 Refer to Article 14.13 of General Conditions.

SECTION 1.14 PROPRIETY

1.14.1 Refer to Article 14.14 of General Conditions.

SECTION 1.15 NOTICE OF NON-PERFORMANCE

1.15.1 Refer to Article 14.15 of General Conditions.

DIVISION-2 SITE CONSTRUCTION

SECTION 2.1 GENERAL

2.1.1 The "General Requirements" of these specifications are hereby made a part of this Division. SECTION 2.2 DEMOLITION

The work shall include all labor, materials, equipment and services required to demolish all existing structures as noted on the plans.

2.2.2 PROTECTION OF STRUCTURES AND PROPERTY A.Execute demolition work in such a manner as to insure adjacent property against damage from

demolition debris and work. B.Repair damage to property of any person or persons on or off the premises, by reason of required work.

C.Any repair work to damaged property to be at contractor's own expense.

2.2.3 All surplus materials shall be disposed of by the contractor off the site. Recycle materials whenever possible, with any contingent fees being paid by the contractor. Materials shall be disposed of prior to any earthwork or grading.

2.2.4 Unless otherwise noted on the plans or in the specifications, all items of demolition shall become the property of the contractor, and shall be disposed of off the site.

.2.5 In the event that hazardous materials are encountered, the contractor shall cease operation and immediately inform the project manager of the circumstances on site. Arrangements will be made by OWNER for the disposition of same.

All hazardous waste shall be removed from the site by a properly licensed contractor. transported in a safe and properly containerized manner, and disposed of at a legally—designated, approved facility. The contractor will comply strictly with all federal, state | F. Guarantee and local governmental regulations pertaining to the disposal of hazardous waste and will save and hold harmless OWNER from all claims arising from violations of any and all regulations regarding the removal, transportation, and disposal of hazardous materials. Upon completion, the contractor shall submit documentation that the site is free of hazardous waste and that the waste removed has been disposed of properly.

SECTION 2.3 EARTHWORK AND GRADING

A.Rough and finish grading according to plans including: 1. Excavation and removal of excess material if necessary.

> 2. Import of fill if required. 3. Compaction and testing of soils per notes on drawings and as specified in the Soils

4. Finish grading to subgrades. 5. Certified Compaction Report by a qualified testing laboratory.

Trenching and backfilling for plumbing and electrical.

2. Crushed rock base for paving and concrete work.

3. Landscaping and sprinklers.

4. Paving and base. 5. Top soil.

6. Soil stabilization.

2.3.2 SUBMITTALS

A Compaction Report of the building pad; tested and interpreted by licensed Soils Engineer shall be submitted in duplicate to OWNER, five (5) days prior to pouring of footings.

A Certification of Grade issued by a licensed surveyor or engineer shall be submitted to OWNER establishing that the site grades are in full compliance with the approved site grading drawings for the project.

2.3.3 MATERIALS

The soils used for compacted fill shall be nonexpansive and free from organic or other deleterious material, not containing rocks or lumps over four inches in diameter and capable of compaction to a minimum of 95% or as required in the project's soils report. Rough grading shall be left to a tolerance of .10 of a foot plus or minus. All inspections herein specified shall be made by OWNER and/or his representative. Inspection will be

required for the following work: 1. All landscape construction items, including planting staking, and cleanup prior to start of maintenance period (final inspection).

2.3.4 EXECUTION A.Clear and remove all vegetation and debris from the site.

damage and remove and/or relocate only as indicated. Call "Dig Alert" as required. C.All existing inactive and/or abandoned utilities on site, on or below grade shall in absence of specific requirements be removed, capped off and staked out and labeled at the property

C.Recess slabs at ADA ramps as necessary to receive detectable warning tiles— see 2.9. D.Excavate and/or recondition soil to the depth required by notes on drawinas, and/or as required

by the Soils Engineer. E. Should any grades or elevations on the plans be incorrect, unclear or inadequate for grading;

OWNER shall be notified before proceeding further. F. All arading shall comply with plans, specifications and soils report, except as noted in "G" below. G. Where it is noted in plans that sidewalks and ramps are not in compliance with ADA

requirements, it shall be brought to the attention of the Project Manager to resolve before | B.Surface Concrete Course: concrete material shall be as specified in Section 3.2 of this proceedina. specification H.Recompaction: 1. Fill shall be placed according to the Soils Report or maximum of six inch layers,

whichever is less. 2. Backfill and fill under slabs shall be thoroughly compacted according to the Soils

H.Finish Gradina: 1. Leave all yards smoothly graded and correctly related to subgrades, ready to receive

top soil (as noted on Landscape Plans). I. Surplus earth not required for fill shall be removed from site.

2.3.5 SOIL STABILIZATION

Use fly ash, lime, or portland cement as per soils report recommendation and in compliance with State Department of Transportation Standard Specifications when required by OWNER.

SECTION 2.4 ASPHALT CONCRETE PAVING

2.4.1 <u>SCOPE</u>

A.Refer to drawings for location and extent of asphaltic paving. B.All paving at ADA Parking stalls and loading to not exceed 2% slope in any direction. If civil plans reflect otherwise. this shall be brought to the attention of the Project Manager to resolve

before proceeding. C.Establish grades for subbase course, base course and surface course. D.Place agaregate base course and surface course. E. Apply weed killer over entire area of subbase.

2.4.2 WORK PROVIDED BY OTHER SECTIONS (See Section 2.6): A.Parking bumpers and guards per plans. B.Parking lot striping.

2.4.3 GUARANTEE

A guarantee for two (2) years against any defects in materials and workmanship for asphalt concrete pavina.

2.4.4 MATERIALS A.Base Aggregate Course shall be as noted on plans.

B.Surface Course: shall be asphaltic concrete as noted on plans.

C.Certificate on plant mix of asphaltic concrete shall be supplied to OWNER

D.Where applicable to existing asphalt only— The asphalt sealer shall be "Guard Top" with 2% Latex additive asphalt base emulsion sealer manufactured by Industrial Asphalt Manufacturing.

2.4.5 EXECUTION A.Preparation of Sub_grade:

Material shall be prepared to relative compaction and sub-grade tolerance as specified in 2.7.1 SCOPE the plans and Soils Report C.Weed Killer:

recommended by the manufacturer. Weed killer to be "Spike 80". Contractor shall provide OWNER with certificate that above was installed, as per requirements.

Material is to be placed true to grade, uniform and smooth and compacted as noted in the plans and Soils Report. Thickness to be as shown on the plans.

E. Spreading and Compaction of Surface Course: 1. Any method of spreading asphalt paying which produces segregation or non-uniformity

of texture of the surface shall not be used. 2. Paving mixture shall be spread evenly to a uniform depth and uniformly distributed and struck off so the surface after rolling will be of uniform texture and appearance.

3. Rolling with a minimum eight ton tandem steel wheel roller shall start as soon as the hot mix material can be compacted without displacement. Rolling shall continue until thoroughly compacted and all roller marks have disappeared. Relative compaction shall

be per plans. 4. In areas too small for the eight ton roller, a smaller roller, a vibrating plate compactor or hand tamper shall be used to achieve thorough compaction.

5. Finished pavement elevations shall not vary more than 1/4 inch from finished design elevations and the surface of the completed paving, when tested with a ten (10) foot straightedge, shall not contain irregularities in excess of 1/4 inch.

6. The finished pavement shall have a minimum uniform thickness after rollina and compaction. See plans for thickness of finished pavement. 7. The finished pavement surface will provide positive sheet drainage true to line and grade and shall not contain any depressions that shall allow water to accumulate and/or pond.

E. Coring:

Contractor, at completion of paving and at OWNER's requirement, shall core six (6) 3 inch holes at areas as directed by OWNER. Cores shall indicate thickness of paving in those | 2.7.2 CUARANTEE representative areas. Should thickness as indicated be less than that as required by plans and specifications, Contractor shall overlay entire paved area with a minimum 1 inch (or as specified by) of finish mix.

The Contractor shall furnish to OWNER a written guarantee to repair or restore any portion of the asphaltic concrete paving in which defects due to improper placing or defective material has become apparent within two (2) years from date of completion.

SECTION 2.5 CONCRETE PAVING

B.Adequately protect active utilities, shown on the drawings or encountered during excavation, from 2.5.1 <u>SCOPE</u> A.Refer to drawing for location and extent of concrete parking lot paving. B.Establish grades for, and place base course / surface course materials.

A quarantee for two (2) years against any defects in materials and workmanship for all concrete paving.

A.Base Course: shall be as specified and detailed in this project's plans and Soil Report.

C.Reinforcing: shall conform to the requirements of Section 5.3 of this specification.

A.<u>Preparation of Sub_grade</u>: Material shall be prepared to relative compaction and sub-arade tolerance as specified in the plans and Soils Report

Material is to be placed true to grade, uniform, smooth and shall be compacted per the requirements of the plans and Soils Report. Thickness to be shown on the plans and detailed in the soils report. See Soils Report for special treatment or requirements for the Placement and Finishing of Surface Concrete Course: the placement and finishing shall conform to Section 3.2 of this specification.

as shown on site plan. Use Celotex or "Flexcell", installed full depth of concrete section, 30 feet O/C maximum at all exterior walks and curbs, unless specifically shown on plans Joint material shall be flush with top of walks. All walks to be smooth and level: steel troweled smooth, then followed/finished with a very "light broom" finish. Exterior walks to slope as noted or at a minimum of 1/8 inch per

foot for drainage. Scoring shall be as shown, 1/2 inch deep weakened plane joints to

have radiused edges. Surfaces sloping more than 1 to 15 shall have a light "broom

Furnish and set compression and expansion joints as required by local ordinances

Trash enclosure slab shall have very "light broom" finish. Upon final inspection, trash enclosure concrete shall be thoroughly cleaned and sealed. Sealer to be applied per manufacturer's instructions.

B.Apply second coat of paint no sooner than one hour after first coat has been applied.

C.For location of all striping and lettering, see Civil Site Plan.

SECTION 2.6 STRIPING AND LETTERING

2.6.1 MATERIALS All parking lot striping and lettering shall be two (2) coats traffic paint. General striping and

lettering shall be white color, unless center striping is different, then match center; handicap stall symbol shall be blue color. Select one of the following manufacturers: A.J.E. Bauer. Traffic Paint B.Glidden Coating System, Latex Traffic Paint.

A.All painted letters and arrows shall be 24 inches high. All striping shall be 4 inches wide. For handicapped stall symbol, see detail on plans.

SECTION 2.7 LANDSCAPING

The work of this section includes all labor materials, and equipment required to complete the work indicated on the drawings. The work shall be performed in accordance with the best standards of practice relating to the various trades and under the continuous supervision of a competent foreman, capable of interpreting the drawings and specifications. All contractor work shall be conducted in accordance with WSPWC (Washington standard public works construction). 2016; and City of Lake Liberty. WA codes, standards and state and local regulations. All utilities shall be located prior to construction and protected, any damage to structures, utilities or concrete will be replaced at contractor's expense. The site has many existing improvements such as underground utilities, curb and gutter, light poles and sidewalks. All plant material and workmanship shall be guaranteed for a period of one year beginning at the date of acceptance by owner. replace all dead or unhealthy plant material immediately with same type and size at no cost to owner. Landscape contractor to turn in as built drawings at the end of project, substantial completion will not be granted until 2 copies @ 1"=20' scale are turned in and approved by owner's representative. In the event of a discrepancy, notify the landscape architect immediately.

1. Finish grading (all planting areas) and minimum 6" of top soil. Total fill dirt and top soil required for moundings when shown on plans.

2. Soil preparation 3. Fertilization 4. All planting, including groundcover, sodded, seeded or hydro_seeded lawn.

5. Staking and guying

6. Maintenance 7. Inspection

8. Guarantees C.Work not included in other Sections: 1. Rough grading

2. Sprinkler system 3. Items listed by others, NIC, or under separate contract.

All shrubs, aroundcovers, and sod shall be guaranteed by the contractor as to growth and health for a period of one year after completion of the specified maintenance period. All trees shall be guaranteed by the contractor to live and grow in an acceptable upright position for period of one year after the specified maintenance period (see Section 2.7.6). all plant material shall meet or exceed the minimum federal standards as regulated by ansi z60.1, american standard for nursery stock. plants not meeting these standards for quality, or plants determined to be unhealthy by owner's representative, will be rejected.

A.All plant materials shall be furnished in quantities, sizes and spacing, as shown or noted on the Landscape drawings. All materials shall be of the species, kind, etc., as symboled and/or described in the "Plant Legend", all as indicated on the drawings.

B.Plant materials indicated on the drawings and herein specified shall conform to the following:

1. Condition: Plants shall be typical for variety and species, healthy, vigorous, free from plant disease, insect pests, or eggs, and shall have healthy, normal root systems, well filling their containers, but not to the point of being root bound. Plants or trees shall not be pruned before delivery.

2. Dimensions: Plants and trees shall be of normal height, spread and caliper for sizes listed on the drawings. 3. Size of Plants: Size of plants shall be as stated on the plant list. Container stock shall have been grown in containers for at least 1 year but not over 2 years.

4. Plants Not Approved: Plants not approved by OWNER shall be removed immediately and

replaced with acceptable plants. C.Fertilizers and soil conditioning materials to be as follows: 1. Commercial fertilizer shall be an approved standard brand and shall conform to the

8% Water soluble potash

applicable state fertilizer laws. It must contain in the following percentages by weight as found in "Best's Turf Supreme". 16% Nitrogen 6% Phosphoric Acid

2. Nitrolized Redwood or Redwood Compost shall be bulk Redwood sawdust treated with a reactive form of Nitrogen (NH3). 3. Peat moss shall be ground Sphagum as in "Sunshine" Brand.

4. Gypsum shall be "Ben Franklin" agricultural gypsum. 5. Iron Sulfate (ferric) standard commercial brand. 6. Bone meal shall be finest ground bone free from debris or harmful chemicals. D.Staking and guying materials:

. Guy wires of pliable galvanized iron, guy as required on details. 2. Tree ties to be nylon reinforced plastic tree ties. 3. Poles for staking trees shall be treated 2" dia. lodgepole tree stakes, buried a

minimum of 18" into soil. E.Stepping stones are to be supplied and installed in planter areas, under windows, in such a pattern as to provide access to the windows for cleaning purposes and under the CO2 filler box for delivery purposes. Placement, size and color are to be determined by the landscape architect, furnished and installed by the landscape contractor.

CTS, PA idaho 83702 architects.com CHITE (treet boise, i www.erstadar $\stackrel{\infty}{\sim}$

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Street. 1230 N. Spoka

DATE: 06/10/16 DRAWN: kk/js CHECKED: jh

Permit Set

SHEET TITLE:

SPECIFICATIONS

materials over 2". A. All gravel overprep to be removed and disposed of off site.

B.Preliminary grading shall be done in such a manner as to anticipate the finish grade. Excess soil shall be removed or redistributed before application of fertilizer and mulch. Top soil shall | b.Quick coupling valves. be weed free and rock free, for the top 6 inches.

C.Before beginning work, all weeds shall be dug out by roots and removed from the site.

D.Soil Conditioners: 1. All planted areas shall be cultivated to a light consistency whereupon the following material, per 1,000 sa. ft., shall be uniformly tilled into the top 6" of soil, using a rototiller or similar machine, and then thoroughly watered down:

a.4 cu. yds. nitrolized redwood b.20 lbs. 16_6_8 commercial fertilizer

2. Prepared soil mix for backfill in pits and trees, vines and shrubs shall consist of the following unless otherwise specified on plan: a.3 parts by volume on_site soil

b.1 part by volume nitrolized redwood Finish grading shall be smooth, even, and uniform plane with no abrupt change of soil surface. Soil areas adjacent to buildings shall slope away from building to allow natural run_off of water. The final finish grade shall be 2" below paving, walks and curbs. Finish grade to be smooth transition to allow for entire site to be a natural flowing space. Fine grade lawn areas to elevations set by plans with positive drainage away from structures. Refer to civil plans for grading information & for all drainage pipes and locations. Protect and retain drainage at all times. No pooling or standing water will be accepted per industry standards. Reuse of existing topsoil that has been stockpiled on site is permitted if: topsoil is tested and analyzed to ensure a proper growing medium. provide additional amendments as determined by soil tests. and topsoil is to be loose, friable sandy loam that is clean and free of toxic materials, noxious weeds, weed seeds, rocks, grass or other foreign materials. Topsoil should have a ph of 5.5 to 7.0. If on site topsoil does not meet these minimum standards contractor is responsible for providing approved imported topsoil or improving onsite topsoil per the approval of the

landscape architect. Amend all new plantings with 2 parts topsoil and 1 part compost. If imported topsoil is used it must be from a local source and be screened free of any debris or foreign matter. topsoil must not contain rocks, sticks, lumps, or toxic matter. Smooth, compact, and fine grade topsoil in lawn areas to smooth and uniform grade .5" below adjacent surfaces.Restoration areas

if planters or lawn areas are disturbed the following notes apply: All disturbed planter beds to receive a minimum of 18" depth of screened topsoil. all disturbed native seed areas to receive a minimum depth of 12" screened topsoil, spread,

compact, and fine grade topsoil to a smooth and uniform grade 2" below adjacent surfaces of | F.Brass Pipe and Fittings: planter bed areas, $1\frac{1}{2}$ " below adjacent surfaces of turf sod areas, and 1" below adjacent surfaces of seed areas. F. Method of shrub and tree planting

1. No planting shall be done until all operations in conjunction with the installation of the G.Copper Pipe and Fittings:

system have been completed, final grades have been established, the planting areas have been properly prepared and graded as herein specified. 2. Prior to excavation for planting or placing of stakes, locate all cables, conduits, control

immediately to the satisfaction of OWNER. 3. Relative position of all trees and plants are subject to approval of OWNER and they shall be relocated if necessary as directed.

wires, or pipes so that proper precautions may be taken not to damage such

improvements. Any materials or items damaged shall be repaired or replaced

4. All plant pits shall be 2 times as wide and 6" deeper than root ball. Each plant shall be planted in center of pit and backfilled with prepared mix. All plants shall be set so that, when settled, they bear the same relation to the finish grade as they bore to the natural grade before they were transplanted. No filling will be permitted above the

5. Immediately after planting, water shall be applied to each shrub, vine, and tree until material about the roots is saturated. Following the planting of groundcover plants or lawn, area shall be immediately saturated with water. G.<u>Turf Planting (Sodded)</u>:

Soil shall be prepared and graded as previously stated.

2. Spread turf fertilizer (16-20-0) onto the soil evenly at the rate of one pound per 100 square feet of lawn area. Rake in lightly. Be sure soil is level and smooth before laying sod. Avoid laying sod on bone dry soil. 3. Lay first strip of sod slabs along a straight line (use a string in irregular areas). Butt

joints tightly, do not overlap edges. On second strip, stagger joints. Use a sharp knife to cut sod to fit curves, edges, and sprinkler heads. 4. Do not lay whole lawn before watering. When a conveniently large area has been N.Sprinkler Heads:

sodded, water lightly preventing drying. Continue to lay sod and to water until installation is complete. 5. After laying all sod, roll lightly to eliminate irregularities and to form good contact

between sod and soil. Avoid a very heavy roller or excessive initial watering which may 6. Water thoroughly the completed lawn surface. Soil should be moistened at least eight

inches deep. Repeat sprinkling at regular intervals to keep soil moist at all times. Increase amount of water per application as necessary. 7. Replace all dead or dying sod with same material as directed.

A.All plant materials must have been previously inspected at the nursery by appropriate government agency if required by state or local code and can be subject to the approval of a OWNER representative before installation.

B.Landscaping contractor to arrange for any inspection required by any local city or county agencies for materials and/or installation C.All inspections herein specified shall be made by OWNER and/or his representative. Inspection will

be required for the following work: 1. All landscape construction items, including planting staking, and clean_up prior to start of maintenance period (final inspection).

2.7.6 MAINTENANCE

Landscape contractor shall maintain all landscaping areas and materials. Maintenance shall consist of applying water, weeding, caring for plants, moving and edging lawns; cleaning of beds and lawns; from the time of installation of the materials, until the opening of the unit.

SECTION 2.8 IRRIGATION

2.8.1 SCOPE OF WORK

The Contractor shall provide all work necessary to install and complete all irrigation systems shown on the plans and/or specified herein, and that they are functioning properly.

2.8.2 WORK SHALL INCLUDE A.Connections to services.

B.Complete installation of pipe, lines and accessories for a complete sprinkler system including trenching, backfilling, valves, controllers, valve boxes, connections to existing electrical supply, cutting and patching as necessary.

C.All hose bibs and quick couplers if specified in legend. D.Protect all existing utilities and repair any damage to existing utilities with matching new materials, at no increase in contract price.

E. As_built drawings.

F. Clean_up. G.Final inspection.

2.8.3 WORK SHALL NOT INCLUDE A.Finish grading.

B.Domestic water plumbing

2.8.4 CONDUCT OF WORK

A.The contractor shall maintain continuously a competent superintendent or foreman. satisfactory to OWNER, on the work during progress, with authority to act for him in all matters pertaining to the work.

B. Work shall be coordinated with other trades so as to provide a complete functional system.

2.8.5 GENERAL REQUIREMENTS

A. Verifications: All scaled dimensions are approximate. Before proceeding with any work, the Contractor shall carefully check and verify all dimensions. Spacing of sprinkler heads and locations of valves and backflow preventer shall be as indicated on the drawings. Submit shop drawings for approval prior to construction.

B.Grading: Before starting work on the irrigation system, the Contractor shall inspect the site and G.Remote Control Valves check all arades to satisfy himself that he may safely proceed with his work. C.Water Supply: The sources of water supply shall be indicated on the drawings, coordinate with

D.Permits and Fees: The Contractor shall apply for all necessary permits required in the pursuit of his work as required by governing codes. The Contractor will pay for all fees resulting from permits.

E.Record and As_Built Drawings 1. The Contractor shall provide and keep up to date and complete "as built" record set of prints which shall show every change from the original drawings and specifications and the exact "as_built" locations, sizes, and kinds of equipment. Prints for these purposes may be obtained from OWNER at cost. This set of drawings shall be kept on the site and shall be used only as a record set.

2. The Contractor shall dimension from two (2) permanent points of reference, building corners, sidewalk, or road intersections, etc., the location of the following items:

a. Connection to existing water lines, reference civil plans. b. Connection to existing electrical power, coordinate with electrician.

c.Gate valves.

d.Routing of sprinkler pressure lines (dimension max. 100' along routing). e.Sprinkler control valves.

A.Routing of control wiring.

c. Other related equipment as directed by OWNER.

3. On or before the date of the final inspection, the Contractor shall deliver the corrected and completed plans to the OWNER. Delivery of the plans will not relieve the Contractor of the responsibility of furnishing required information that may be omitted from the prints.

G.Irriaation Contractor shall be responsible for full coverage of irrigation system.

2.8.6 MATERIAL SPECIFICATIONS

A.All material shall be new stock and best grade of its kind. It shall be as specified unless otherwise specifically approved, in writing, by OWNER. Materials not named shall be subject to approval or rejection by OWNER.

B.Plastic Pipe: 1. Plastic pipe and fittings shall be virgin hi_impact poly_vinyl chloride Type 2 conforming to commercial standards of National Sanitation Foundation.

2. All plastic pipe shall be continuously and permanently marked with the following information: Manufacturer's name, kind of pipe, material size, IPS, NSF approval, 3. Plastic pipe shall be as manufactured by Lasco, Baldwin, GSR, Pacific Western, Johns Manville.

C.Main Lines: 1. All piping and fittings under constant pressure between backflow preventer and control valves, quick couplers and hose bibs shall be as indicated per plan.

D.Lateral Lines: 1. All piping and fittings under intermittent pressure, downstream of control valves shall be rigid PVC 1120 CL 200 Type I Grade I or II and shall meet CS 256_63 standards.

E.Fittings, Nipples and Risers: 1. Plastic fittings shall be rigid poly_vinyl chloride, standard weight, schedule of pipe being

2. Fittings for quick coupler shall be installed per industry standards. 3. Risers shall be PVC Schedule 80 or approved equal.

4. Street Elbows, Bushings, Close Nipples, Long Screw, Bullhead Tees or Crosses will not be allowed and shall not be installed except as otherwise specified or detailed herein. Where indicated on the drawings, use red brass screwed pipe conforming to Federal

Specification #WW_P_351. 2. Fittings shall be red brass conforming to Federal Specification #WW_P_460.

. Where indicated on the drawings, use copper pipe Type "K". 2. Copper tubing shall conform to ATSM B_88.

H.Automatic Controller: 1. Controller shall be Hunter PCC Series-Pro-C Conventional. Controller shall be installed as per manufacturer's specifications. Controller shall be installed in building—Refer to "E" sheets for power location. Controller to have Solar Sync Module. Solar Sync Unit to be mounted inside parapet on roof. Conduit will be provided from controller location to

Remote Control Valves: 1. Remote control valves shall be installed in accordance with the details thereof

1. Gate valves shall provided.

parapet by G.C.

K.Control wire for remote control valve operation: 1. Connection between the automatic irrigation sprinkler controller and the remote control valves shall be made with #14 UF direct burial wire.

2. Color code each wire with a different color for each valve station. Common to be black. . Backflow preventer:

A.Backflow preventer shall be provided. **B.Control Valve Boxes:**

1. Gate Valve: use 10" x 10_1/4" round box for all gate valves, Carson Industries #910_12B with green bolt down cover or approved equal. Extension sleeve shall be PVC_6" minimum size.

2. Remote Control Valve: Use 9_1/2" x 16" x 11" rectangular box for all electrical control valves, Carson Industries 1419_12B with green bolt down cover.

1. All sprinkler heads shall be Hunter MP Rotator as appropriate for spray distance. Use Hunter Pressure Compensating Multi Stream Bubblers where bubblers are necessary and around menu boards, speaker post and preview board

2.8.7 INSTALLATION SPECIFICATIONS

1. Depths of minimum cover unless otherwise specified.

1)Main line _ 18" deep.

b.Pressure main line under paving _ 24" deep run in a Schedule 40 PVC sleeve. c. Non Pressure lateral sprinkler lines _ 12".

d.Control wires _ 18" deep.

e.Lateral line under paving _ 18" deep.

a.Pressure main lines:

2. Wherever possible, the main and lateral line may occupy the same trench. Main and lateral lines in the same trench must be spaced a minimum of 6" horizontally apart. B. Trenching:

2. Trench bottoms shall be at a true gradient providing support to pipe through its entire length and shall be free from rocks, clods, debris and sharp edged objects. C.Plastic Pipe and Fitting Installations:

Sprinkler head installation shall be as detailed on drawing. 2. Due to the nature of plastic pipe fittings, the Contractor shall exercise care in handling. loading, unloading and storing to avoid damage. The pipe and fittings shall be stored under cover, and shall be transported in vehicle with a bed long enough to allow the length of pipe to lie flat, so as not to be subject to undue bending or concentrated external load at any point. Any pipe that has been dented or damaged shall be

discarded until such damage has been cut and pipe is rejoined with a coupling. 3. Welded joint shall be given at least 15 minutes setup curing time before moving of handling. Pipe shall be partially center loaded to prevent arching and slipping under pressure. No water shall be permitted in pipe until a period of at least 24 hours has elapsed for solvent weld setting and curing.

4. Backfilling shall be done when pipe is not in an expanded condition due to heat. Cooling of the pipe can be accomplished by operating the system for a short time

5. Long runs of PVC pipe shall be snaked in the trench to allow for contraction.

D.Backflow Preventer: 1. All installation shall be per manufacturer's recommendation and per state and local

E. Automatic Controller & Rain Sensor: 1. Controller shall be mounted securely as per manufacturer's recommendations in an accessible location as shown on plans near utility box. If conflict between Irriaation

location with GC provided conduit from controller to parapet for connecting wire.

plans and building plans, install per building plans. Controller wires shall be installed in electrical conduit from controller to below finish grade. Rain sensor (Solar Sync Unit) shall be mounted on roof in equipment well on back side of parapet wall. Coordinate

F. Controller Wire: 1. The control wire shall be buried alongside other pipe in trenches a minimum of 18"

deep and bundled and taped at 10' on center. 2. No controller wire splices will be allowed between automatic controller and remote control valve without approval by OWNER's authorized representative.

3. Control wire splices and connections shall be made with Pen Tite connectors. 4. If allowed all controller wire splices between automatic controller and remote control valves shall be made in a 10" x 10_1/4" round box, Carson Industries #910_12B with

green bolt down cover.

1. Remote control valves shall be installed at sufficient depth to provide not more than 10" nor less than 6" cover from the very top of the valve to finish grade. (See

2. Before backfill of automatic valves, packing nuts shall be checked and tightened to prevent leakage. 3. All remote control valves shall be housed in Carson boxes or equal.

1. Trenches shall be backfilled with excavated dirt after pipe has been installed. Backfill shall be placed in layer; the thickness of the layers shall depend on the nature of the material and the method of compaction used.

2. Compaction shall be such that there will be no settling within the one_year quarantee 3.2.6 PROTECTION OF CONCRETE period. The Contractor shall not place detrimental subsoil in the top 5" of backfill.

Testing of Irrigation System:

3. Water compaction will be permitted.

1. The Contractor shall request the presence of OWNER's authorized representative at least 48 hours in advance of testing.

2. Test all pressure lines under hydrostatic pressure of 150 pounds per square inch, and

3. Testing of pressure mainlines shall occur prior to installation of electrical control valves. 4. All piping under paved areas shall be tested under hydrostatic pressure of 150 pounds per square inch, and proved watertight, prior to pavina. 5. Sustain pressure in lines for not less than two (2) hours. If leaks develop, replace

ioints and repeat test until entire system is proven watertight. 6. No pipe shall be backfilled until it has been inspected and tested. 7. Furnish necessary force pump and all other test equipment.

8. When the sprinkler irrigation system is completed, perform a coverage test to determine if the water coverage for planting areas is complete and adequate. Furnish all materials and perform all work required to correct any inadequacies of coverage due to deviations from plans, or where the system has been willfully installed as indicated on the drawings when it is obviously inadequate, without bringing this to the attention of OWNER. This test shall be accomplished before any ground cover is planted. 9. Upon completion of each phase of work, entire system shall be tested and adjusted t insure that there is no overspray and that no spray will contact doors, windows, or building walls, signs or menu board.

1. The entire irrigation system shall be guaranteed by the Contractor to give complete and satisfactory service as to material and workmanship for a period of one year from the date of final acceptance of the work by OWNER.

2. Should any trouble develop within the specified guarantee period which in the opinion of OWNER is due to inferior or faulty material and/or workmanship, the trouble shall be corrected, without delay, by the Contractor to the satisfaction of, and at no expense to, OWNER, as part of this contract. 3. Any and all damage to rain water drains, water supply lines, gas lines and/or other

service lines shall be repaired and made good by the Contractor at no extra cost to 4. Contractor shall supply to OWNER operating and installation instructions for the

SECTION 2.9 DETECTABLE WARNING PAVERS

A.Install yellow detectable warning pavers in prepared recessed slab areas as located on the plans.

Pavers to be installed per manufacturers recommendations. 2.9.2 <u>MATERIALS</u>
A.Tile Tech Tile Pavers— 12" x12" x 2" Yellow color.

Contact Information: Tile Tech Pavers, 1914 W. Pico Blvd., Los Angeles, CA. 90006 - Phone

A.Tile Pavers and concrete shall be prepared as recommended by manufacturer for permanent installation. Pavers shall be placed level and flush with adjacent concrete. Installation must

(213) 380-5560. Alternate manufacturers of detectable tile payers may be submitted. Glue

comply with Federal ADA Guidelines and all state and local requirements to comply with accessibility. If installation is deemed unacceptable by any inspection, it will be the responsibility of the contractor to remove and reinstall to meet compliance.

DIVISION-3 CONCRETE SECTION 3.1 ..GENERAL

3.1.1The "General Requirements" of these specifications are hereby made a part of this Division.

SECTION 3.2 ..CONCRETE

3.1.2 All concrete work to conform to latest ACI Standards.

down or nail down mat type alternates are NOT acceptable.

A. All concrete work, including all conduit and/or piping encasement, concrete surface or sub-surface drainage structures, and all concrete light bases shown on electrical drawings.

B. Furnish and install all reinforcing steel and all nuts and bolts imbedded in concrete

(including any special hold-down or post anchors). C. Furnish all grates, basins or other accessory items necessary to complete any drainage structure as shown on plans. Grates and frames shall be as specified, or as per local

D. Material is to be placed true to grade, uniform and smooth. Thickness to be as shown on the plans.

3.2.2 MATERIALS A. Portland Cement: ASTM C-150, Cement type or as specified on the structural drawings.

B. Fine and Course Aggregate: ASTM C-33 Vapor Barrier: Stego Wrap Vapor Barrier (15-mil) by Stego Industries LLC, (877) 464-7834 (Use under floor slab)

Control and Expansion Joints: ASTM D-544, see plans for details and locations. Reinforcing steel for all concrete work per Section 5.3 of these specifications. Exterior Concrete Sealer (at drive—thru, trash enclosure and parking lot slabs): Selection

Anti-Hydro: Armortop (manuf. spec. #4-1)

Gifford-Hill: Sealco 309 G. Exterior Concrete Joint Sealant (as detailed on the plans): Tremco, #THC-900. H. Drive-thru and Trash Enclosure Coloring see Finishing Section 3.2.7 paragraph E for

specification and manufacturer. No fly ash will be allowed in any site or building concrete mixes.

Burke: Industrial Concrete Sealer

required by local building department

A. Concrete ultimate compressive strength at 28 days shall be as specified on the structural drawings. Concrete slump 3" to 4". Contractor to supply any and all concrete tests as

B. OWNER reserves the right, at OWNER's expense, to have concrete tests taken by an independent testing facility. In the event that the concrete tested fails to reach the compressive strength required by the plans and specifications. OWNER shall, at its option. have the right to require the contractor to remove and replace the sub-standard concrete at the contractor's expense. All re-testing shall be at the contractor's expense.

3.2.4 <u>LAYOUT</u> Layout of buildings shall be by a registered civil engineer. Contractor shall be responsible for all layout work, and shall install batter boards in performing layout. All batter boards shall remain in place until foundations and floor slab have been poured.

3.2.5 PLACEMENT OF MATERIALS A. Concrete shall be conveyed from the mixer to the place of final deposit by methods that

will prevent separation or loss of materials. Concrete shall be deposited in the forms within one hour after the addition of mixing water. B. Concrete shall be deposited as nearly as practicable in its final position to avoid segregation due to re-handling. No concrete that has been contaminated shall be used.

nor shall re-tempered concrete be used. C. Once placing has started, it shall be carried on as a continuous operation until placement of the panel or section is completed.

D. Cleaned out, vertical trenches may be used in lieu of forms below grade, providing trenches are level, cleaned out and sized as shown on the drawings. E. Such surfaces as are to be finished shall be brought to proper grade, struck off and finished in a workmanlike manner. No honeycombing, rough spots or protruding stones

shall be left exposed. All reinforcing steel, dowels, anchor bolts and other inserts shall be secured in position prior to pouring concrete. All bolts shall be set by templates.

H. All concrete shall be thoroughly vibrated using mechanical vibrators with a head diameter

G. Location of construction or expansion joints shall be as indicated on drawings.

concrete and for location of floor finishes and slab depressions.

"back up" vibrator in case of failure of one or the other. All concrete including light bases, shall be vibrated. The vibrator should not be used to move concrete within the Refer to drawings for moulds, grooves, ornaments, clips or grounds, required to be cast in

not less than 1". Concrete contractor shall be responsible for also providing an additional

A. Hot Weather Requirements:

. At periods of hot weather, suitable precautions shall be taken to avoid drying of the concrete prior to finishing operations. Use of wind breaks, sunshades, curing compounds or other devices shall be provided

2. Concrete deposited in hot weather shall not have a placing temperature that will cause difficulty from loss of slump, flash sets, or cold joints. Concrete temperature shall be less than 90 degrees F.

B. Cold Weather Requirements: Adequate equipment shall be provided for heating concrete materials and protecting concrete during freezing or near freezing weather. No frozen materials or materials containing snow or ice shall be used.

3.2.7 FINISHING OF WORK A. Vapor barrier may be omitted at exterior slabs, unless specifically shown on plans or

B. Set all bolts for required anchors carefully and accurately. Provide dowel ties between interior and exterior slabs and between footings and concrete block walls where they occur. Ties shall be #3 bars unless noted otherwise, at 24" on center. All bolts shall be set with templates.

C. Do not pour interior slabs until elevations and location of all plumbing floor drains are verified to obtain necessary slopes of slab. Locate any desired cold joints under partitions so far as possible

D. Where minor trenching may be required after concrete is poured, area is to be fully compacted, vapor barrier replaced and overlapped 6", and 12" #4 rebar at 24" OC is to be drilled into existing slab 6". Use Por-Rok to anchor rebar to existing slab. Concrete is to be smooth finished to match slab.

E. Drive—thru and trash enclosure shall have integral black color, as manufactured by David Colors (800-356-4848) Mix Ready, color: Graphite (carbon) or Scofield Companies (1-800-900-9900) Solachrome, color: Cold Front SC4286 SRI 25, per manufacturers specifications. Finish shall be 'light broom' finish. Upon final inspection, drive thru and trash enclosure shall be thoroughly cleaned and sealed per manufacturers instructions

Cement and aggregates shall be stored in such a manner as to prevent their deterioration or the intrusion of foreign matter. Any material which has deteriorated or which has been contaminated shall not be used for concrete.

Upon completion of all other work in building, concrete floors shall be swept clean, and plaster, paint and oil removed and cleaned thoroughly. Exterior walks shall be cleaned free of all oil.

3.2.10 CLEARANCE ARM AT DRIVE—THRU Contractor shall provide and install clearance arm and install footing per Section 10.6 of this specifications The clearance arm assembly shall be installed true and plumb and at the proper height above the finish grade of the drive-thru lane. In the event that the Contractor fails to install the clearance arm correctly, the Contractor shall remove the improperly installed

item and, at the Contractor's expense, furnish a new assembly for re-installation. **DIVISION-4** MASONRY

asphalt, or other markings prior to final building inspection.

4.1.1 The "General Requirements" of these specifications are hereby made a part of this Division.

Includes all masonry work, reinforcing steel and miscellaneous metals needed for same.

A. Masonry Units: Where indicated on plans. Refer to Color/Materials Schedule and

details for color, type, and size. Masonry shall conform to ASTM C_90 standards. B. Masonry (Brick) Veneer: Refer to Color/Materials Schedule for color, type, size and

D. Mortar Sand: ASTM C_144. E. Admixtures: "Anti_Hydro" (manufacturer's spec 1_6) one quart per sack of cement, for all mortar in masonry

F. Grout Aggregate: ASTM C_404, 100% passing 3/8 inch sieve, not more than 5% passing No. 8 sieve. G. Hydrated Lime: ASTM C_207, Type S.

C. Cement: Shall be Portland cement conforming to ASTM C_150.

H. Water: Shall be taken from a potable source. I. Reinforcing steel for all masonry, per Section 5.3 of these specifications. J. Veneer Ties: Shall be corrosion resistant #9 wire or 1/16" x 1" crimped metal, meeting approval of Local Ordinance and Building Authority. Ties to be attached and spaced, as

A. Mortar proportions by volume: Type S, 1800 p.s.i. at these specifications and conform t

required by the local building code.

Portland Cement

Hydrated Lime 1/2 part maximum Fine Aggregate

(sand) 4 parts Admixture "Anti_Hydro" (1 quart per sack of cement) B. Grout proportions by volume: 2000 p.s.i. at twenty_eight (28) days Portland Cement 1 part

> Hydrated Lime 0 to 1/10 part Aggregate 2 parts sand and 2 parts pea gravel

C. All ingredients for mortar and grout shall be measured according to the specified portions for the batch, and mixed in a mechanically operated batch mixer. D. The consistency of mortar shall be adjusted to the satisfaction of the mason. Water shall be added as is compatible with convenience in using, but without destroying the proper

4.2.4 PLACEMENT OF MATERIALS

structural composition of the mix.

masonry shall be of the best quality.

A. Laying of Masonry Units and Groutina: 1 Use "running bond" with all masonry joints, unless otherwise noted on the drawings. 1. Cleanout openings required at bottom of all cells to be filled at each pour if pour exceeds four feet in height (at concrete block only).

2 Grout solid at all cells and behind all veneer. B. All masonry units shall be clean and free of dust, dirt or other foreign matter before laying in wall. No chipped corners or other irregularities will be allowed in exposed faces.

C. Masonry shall not be erected when the temperature has dropped below 45 degrees F. No

masonry unit having a film of frost in its surface shall be laid in the walls. D. All masonry shall be laid plumb and true to line and all corners and angles shall be square unless otherwise indicated on the drawings. Courses shall be accurately spaced. E. Joints between masonry units shall be approximately 1/2 wide and tooled to present a

F. Reinforcing steel shall be in place and inspected before grouting. All debris and projecting mortar shall be cleaned out before pouring grout. Grout lifts shall not exceed eight feet and shall be stopped 1_1/2 inches below the top course to form a key for pour joints. All bolts, inserts, anchors, etc., shall be placed before grouting.

(installed by Plastering Sub_contractor) with a 1 inch grout space. Grout space shall be

smooth concave joint. All masonry joints shall be tooled. Mortar shall be natural cement

grouted solid. Veneer ties shall conform to the requirements (type and spacina) of the H. Metal reinforcement shall be thoroughly secured against displacement, and shall be supported as needed. Vertical reinforcing shall be held in position at top, bottom and 5.3.2 MATERIALS maximum of 192 bar diameters. Parallel bars shall not be placed closer in the clear, than 1_1/2 times the bar diameter. Tie every crossing. Lap bars 40 diameters at splices.

. Carefully and accurately set all miscellaneous metal, i.e., lintel angles, anchors, straps. bolts, ties, and cooperate with other trades in providing necessary openings, etc. J. At the completion of the masonry work, the masonry contractor shall thoroughly clean all masonry. If masonry is not cleaned to Owner's satisfaction, contractor will be required to lightly sandblast masonry until the work is to Owner's requirements. Contractor shall remove all scaffolding and equipment used in the work, and remove all debris, refuse and surplus masonry materials and remove them from the site.

SECTION 4.3 THIN VENEER/MINI_BRICK

A. Thin veneer/mini_bricks: Where indicated on the plans; see Color Materials Schedule for size, color and manufacturer. Veneer bricks shall be complete with brick corner units as required. See Color/Material Schedule on the drawings for material color.

B. Cement: Shall be Portland cement conforming to ASTM C 150.

C. Mortar Sand: ASTM C_144.

D. Hydrated Lime: ASTM C_207, Type S. E. Water: Shall be taken from a potable source.

4.3.2 <u>MORTAR</u> A. Mortar proportions by volume: Type S, 1800 p.s.i. at these specifications and conform to ASTM C 270.

Portland Cement Hydrated Lime 1/2 part Fine Aggregate (sand) 4_1/2 parts

4.3.3 PLACEMENT OF MATERIALS

A. Cement plaster backing surface shall be clean and damp (but not wet) prior to beginning placement. Alternate surfaces as allowed by the manufacturer's installation specifications will be acceptable. Proof may be requested. Do not proceed until such surface(s) are acceptable. Upon failure to so report, contractor shall make good all defects and damages arising therefrom at no cost to Owner.

B. All masonry units shall be clean and free of dust, dirt or other foreign matter before placement. No chipped corners or other irregularities will be allowed in exposed faces. All

masonry shall be of the best quality. C. Masonry shall not be erected when the temperature has dropped below 45 degrees F. No

masonry unit having a film of frost in its surface shall be laid in the walls. D. All masonry shall be laid plumb and true to line and all corners and angles shall be

square unless otherwise indicated on the drawings. Courses shall be accurately spaced. E. Joints between masonry units shall be approximately 1/2" wide and tooled to present a smooth concave joint. All masonry joints shall be tooled. Mortar shall be natural cement color. Use "running bond" with all masonry joints unless otherwise noted on the drawings.

F. The veneer units shall be wetted at least one hour before placement and shall be noticeably damp but free from surface water at the time of placement. G. Spread a slurry, then mortar approximately 3/8" thick over the cement plaster backing area, by troweling firmly. Then spread mortar over the adhering face of the masonry; sufficient to create a slight excess which will be forced out at the edges of the masonry unit. The unit shall be tapped into place so as to eliminate voids in the mortar.

H. Mortar stains shall be removed with clear water promptly as work progresses. I. At the completion of the masonry work, the masonry contractor shall thoroughly clean all masonry. If masonry is not cleaned to Owner's satisfaction, contractor will be required to lightly sandblast masonry until the work is to Owner's requirements. Contractor shall remove all scaffolding and equipment used in the work and remove all debris, refuse and surplus masonry materials and remove them from the site.

DIVISION 5 METALS

SECTION 5.1 GENERAL

5.1.1 The "General Requirements" of these specifications are hereby made a part of this Division.

5.2.1 <u>SCOPE</u> A.Includes bolts, washers, anchors, straps, rods, bars, etc., used in connection with the miscellaneous steel and iron work, where indicated on plans.

B.Fabricate and install roof access ladder, trash enclosure gates, exterior metal handrails, metal

fencing, and metal fence gates as detailed on the drawings.

5.2.2 MATERIALS A.Conform to these standards:

3.Bolts and Nuts: ASTM A_307.

SECTION 5.2 STRUCTURAL & MISCELLANEOUS METALS

2.Paint: Federal Specification TT_P_664 & TT-P-636.

1.Structural Steel: ASTM A_36 a)Welding Standards: Comply with applicable provisions of AWS D1.1 "Structural Welding Code--Steel".

b) Welding Electrodes: Comply with AWS requirements. c)Weld Connections: Comply with AWS D1.1 for procedures, appearance and quality of welds, and methods used in correcting welding work.

5.2.3 FABRICATION

A.Fabricator shall detail, fabricate and erect work in accordance with the drawings. B.Bolt holes shall be 1/16 inch larger diameter than nominal size of bolt used, unless noted

C.After working members, re_straighten as required before assembly. After erection, steel work shall be free from twists, bends, buckles, or open joints. D.All miscellaneous steel except members or portions of members to be encased in concrete shall

painting shall be compatible with the intended finish coating. Paint shall be applied after nspection and approval and before leaving the shop. E.All steel work specified to be painted shall be cleaned by hand wire brushing, sandblasting or other approved method to remove mill scale, loose rust, weld slag, dirt or other foreign matter.

receive one (1) shop coat of rust_inhibitive paint. Paint used as primer for subsequent

Oil and grease shall be removed by solvent. F.Paint shall not be placed within two (2) inches of any field weld location. G.Conform to tolerances for materials fabrication and erection as given in "Code of Standard

Practice". American Institute of Steel Construction, latest edition.

5.2.4 ERECTION A.Temporary bracing shall be maintained as required, including provision for loads resulting from erection operation, wind, etc. Bolt_up or welding shall progress as required to provide for

thereby has been properly aligned. Completely plumb columns and level beams at the elevation shown on the drawings before final connections are made. C.Touch_up damaged paint areas after erection.

D.Field welding shall be done by certified welders in conformity with the "Standard Code for Arc and Gas Welding" of the American Welding Society. All structural welding shall be performed using the shielded electric arc process with approved electrodes. Use low hydrogen electrodes for reinforcing bars. Field welding to have continuous inspection by a licensed

E.Perform all cutting, punching, drilling and taping required for connecting work of other trades to structural steel. Obtain necessary data and indicate on shop and erection drawings.

SECTION 5.3 REINFORCING STEEL G. Building masonry veneer shall be installed over wire lath and cement plaster backing

A.Furnish and place reinforcing steel for conventional concrete, and masonry. B.Reinforcing steel shall be furnished respectively under concrete and masonry by those contractors.

Conform to these standards: 1. Reinforcing Bars: ASTM A_615. a.Grade 40 for sizes 3 and 4 (Grade 60 where noted on plans).

b.Grade 60 for sizes 5 and larger. 2. Welder Reinforcing Steel Bars: ASTM A706.

3. Welded Steel Wire Fabric: ASTM A_185. 4. Accessories: Standard chairs and other accessories, galvanized when any part of the accessory is

placed within 3/4 inches of exposed concrete surface.

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Permit Set

SPECIFICATIONS

SHEET NUMBER:

DRAWN: CHECKED: jh B.No permanent bolting or welding shall be done until as much of the structure as will be stiffened

SP.2

A.Coordinate work of this section with work of other trades. Expedite materials and labor to avoid omissions and delay. Provide reinforcing steel, bars, wire, and wire fabric in sizes, gauges, lengths, and formed to dimensions as indicated.

B.Thoroughly clean reinforcing steel of loose mill scale, rust, oil, or other coating that may reduce or destroy bond. C.Carefully form reinforcing to dimensions indicated. Do not bend or straighten in a manner injurious to material. Do not use bars with kinks or bends not shown on plans. Heating

of reinforcement is permitted only when entire operation is approved by Structural Engineer. D.Accurately place reinforcement and secure in place as indicated on drawings and herein specified. Maintain proper clearance between bars and forms. Secure steel against displacement by using annealed steel wire of not less than 16 gauge. Use metal spreaders and spacers to secure proper bar spacing. Wire stirrups accurately and securely to beams. Use concrete blocks to hold reinforcement proper distance above earth. Use galvanized chairs and spacers at all exposed concrete. Wire together reinforcement in concrete at all points

E.Lap all splices as detailed; when possible provide a minimum of 1_1/2 inches clearance between sets of splices. Stagger splices of horizontal bars so that adjacent splices will be 4"_0" apart. Extend stubs and dowels, required to receive an engage subsequent work, a sufficient length to develop full strength of bar or as indicated on drawings. Place dowel and stub bars in forms, secured against displacement during placement of concrete, and clean off adhering concrete immediately after completion of pouring while encrustations are soft. See structural drawings for typical bar splices.

SECTION 5.4 LIGHT GAUGE STEEL FRAMING

5.4.1 <u>SCOPE</u>

Furnish and install all light gauge steel framing members

5.4.2 MATERIALS

Drywall steel studs and track:

A.California Metal Systems, Inc.; Angeles Metal System or United States Steel.

Steel drywall studs (20 gauge), track and furring channels. Studs to be $3 \frac{5}{8}$ " (DW - 3 $5/8 \times 20$) or 6" (DW $- 6 \times 20$) or as shown on the plans. B.U.S. Gypsum Framing System:

Steel studs (20 gauge), style "SJ", track and furring channels. Studs to be 3 5/8" (362 SJ20) or 6" (60SJ20) or as shown on the plans.

.5.4.3 <u>ERECTION</u> A.Erect steel studs per details on drawings using sufficient fasteners to obtain required rigidity and

strength. Studs and track to be plumb and true to line ready for application o subsequent finish materials. B.Partitions not extending to roof or ceiling above, shall extend 12 inches above ceiling height of

new construction C.Provide mid-height reinforcing at walls, using solid steel studs.

D.Hanger studs shall be securely anchored to the underside of the floor structure per details. E. Wall openings such as doors and windows, shall be double stud frames.

F. Metals stud construction, fabrication and erection shall conform to the latest light gauge steel specifications as published by the Metal Lath Steel Framing Association. G.Set bottom track on a bead of mastic. See Section 7.5.2B.

DIVISION-6

SECTION 6.2 ROUGH CARPENTRY

CARPENTRY

SECTION 6.1 GENERAL

6.1.1The "General Requirements" of these specifications are hereby made a part of this Division.

A.Includes all wood framing and truss installation required in the construction of the building and miscellaneous finishes not covered under other Sections of this Specification. This Scope is to include the furnishing of the rough lumber package, the truss package and the labor to install these items. For specifications on the truss package, see Paragraph 6.2.2, "Roof Trusses, Material".

B.Furnished and installed as part of this Section: *1. Plates and straps under 1/8 inch thickness

Joist hangers

Rough hardware as required. *4. All fasteners for connecting wood to wood.

Hollow Metal Doors and Frames mounted on the exterior of the building Asphalt felt backing behind exterior finish trim

Roof hatch as specified in section 7.6.

C.Work in connection with others: Frame duct openings through wood partitions, provide curbs, platforms and openings for all

roof mounted equipment, ventilation and exhaust systems. Provide solid backing for all cabinets and fixtures.

* K.C. Metals and USP Lumber Connectors can be used in lieu of Simpson Products, but only if A.GENERAL or BOCA approved and of equal load values to the Simpson Products specified on drawings.

6.2.2ROOF TRUSSES, MATERIALS

time of fabrication

B.LUMBER

A.GENERAL The wood and fabrication criteria of all prefabricated wood trusses shall meet with "National Design Specifications for Wood Construction by National Forest Products Association (latest edition); "Timber Construction Standards" by American Institute of Timber Construction (latest revision); and "Design Specifications for Metal Plate Connected Wood Truss Construction by Truss Plate Institute (latest edition), the same as if those specifications and all their references were set out in full herein

All lumber used for the truss members shall conform to the published stress ratings for the species and grades as set out in the official grading rules of the appropriate lumber B.Exterior Woodwork: association or as listed in the reference specifications; except that, where ever this specification, or notes on the plans or truss engineering designs calls for lumber which exceeds the minimums set forth therein, the specifications, plans, and/or truss engineering 2 designs shall be applicable. The moisture content of all lumber shall be within the proper limits, as stated in the reference specifications, but shall not, in any case, exceed 19% nor be less than 7% at the

C.CONNECTORS All truss connector plates shall be manufactured from only prime commercial quality galvanized sheet metal of no less than 20 gauge thickness which has a minimum yield of 33,000 psi and a minimum ultimate tensile strength of 48,000 psi. The corrosion_resistant coating shall be G_60 commercial class, hot_dipped galvanized before stamping.

D.FABRICATION All truss designs shall bear the name and seal and/or reaistered number and state of registry of a licensed professional engineer.

See structural drawings for parallel chord (2X6/2X4) truss design and load requirements. All trusses and other roof structural components shall be fabricated in a properly equipped manufacturing facility of a permanent nature. They shall be manufactured by experienced workman, using precision cutting and truss assembly methods and under the direct supervision of a qualified foreman. All trusses shall be fabricated under the strict rules of the Truss Plate Institute (TPI).

The qualified component manufacturer must be a member of the Truss Plate Institute and participate in the Quality Control Test Criteria Program, or show to OWNER a quality assurance program comparable to the TPI Testing Criteria Program.

All truss members shall be accurately cut to length and angle from straight lumber to assure tight joints for finished truss. E.HANDLING AND ERECTION

Fabricated trusses and subassemblies shall be handled with care so that they are not subject to damage. If the trusses are to be stockpiled or stored prior to erection, they shall be set in the horizontal position, resting upon temporary bearing supports and braced so that they will be subjected to no unusual bending or tipping over.

The permanent structural cross_bracing, to insure the overall rigidity of the truss system, shall be in accordance with the structural and truss plans.

Proper erection bracing shall be installed to hold the trusses true and plumb and in safe condition until permanent truss bracing and bridging can be solidly nailed in place to form a structurally sound framing system. All erection and permanent bracing shall be installed and all components permanently fastened before the application of any loads to the 4. All prefabricated wood trusses are to be installed in accordance with "Commentary and

HIB-91", as published by the Truss Plate Institute.

Recommendations For Handling, Installing and Bracing Metal Plate Connected Wood Trusses

6.2.3FRAMING, MATERIALS

A.GENERAL All lumber shall be grade stamped by "Western Wood Products Association" certified by the Board of Review of the American Lumber Standard Committee and manufactured in accordance with Product Standard 20_70, as published by the United States Department o All lumber shall not have a moisture content which exceeds 19% and shall indicated "S_Dry"

on the grade stamp. Any Southern Pine material shall have a moisture content of 15%. kiln dried and shall be so indicated on the grade stamp.

3.<u>2X2 THROUGH 4X4 FRAMING</u> (excluding structural posts): Any commercial softwood which conforms with the following minimum design values (in P.S.I.):

Fb (non-repetitive) 675 Fc (perpendicular) 625 1.400.000 Typical material: See Plans

2.2X6 THROUGH 4X16 FRAMING: Any commercial softwood which conforms with the following minimum design values (in P.S.I.): Fb (non-repetitive) 875

Fc (perpendicular) 1.600.000

Typical material: Douglas Fir "No. 2" grade D.Non_Bearing Stud Framing: Any commercial softwood which conforms with the following minimum design values (in P.S.I.):

Fb (non-repetitive) 675 Fc (parallel) 825 Typical material: Douglas Fir "Stud" grade

E.<u>4X4 Post Framing:</u> Shall conform with the following minimum design values (in P.S.I.): Fb (non-repetitive)

Fc (perpendicular) 1.700.000

Typical material: Douglas Fir "No. 1". . Wood "Mud" Sills and Pressure Treated Lumber: Shall be "Water_Borne Salt" pressure treated

lumber, and shall conform to AWPB Quality Control Standard #LP_2. G. <u>Structural Wood Panels</u>: All Sheathing shall be APA rated Structural Wood Panels. exterior

type. Structural Wood Panels may either be Plywood conforming to U.S. Product Standard PS 1-95 or Oriented Strand Board conforming to U.S. Product Standard PS-2-92. Panels shall be the size and quantity specified on the structural drawings. Each panel shall be identified with the appropriate grade trademark of the American Plywood Association.

..<u>Additional Blockina</u>: Provide solid backing for plumbing fixtures, cabinets, light fixtures, behind shel 3.<u>Additional framina</u>: See structural drawings.

C.All finish wood siding and exposed plywood siding shall be applied over saturated building paper. Notching: Notches on the ends of joists shall not exceed one fourth the joist depth. Holes bored

in joists shall not be within 2 inches of the top or bottom of the joist, and the diameter of any such hole shall not exceed one third of the depth of the ioist. Notches in the top or bottom of the joists shall not exceed one sixth the depth and shall not be located in the middle third of the span. Holes through sills, plates, studs and double plates in interior bearing and shear walls shall not exceed 1/3 the plate width and shall be bored holes placed in the center of the stud or plate. E.Bracing: All bearing walls not solidly sheathed shall have a diagonal let_in brace (1X4 wood or 15

ga. galvanized wall brace strap) at each end and at 25 feet on center. F. All bolt heads and nuts bearing on wood shall have washers. All bolt holes in wood shall be drilled 1/32 inch to 1/16 inch diameter larger than the nominal bolt diameter. G.All framing shall comply with the governing codes whether or not specifically detailed on the plans.

6.2.5WORKMANSHIP

A.Layout accurately, plumb and level, all work. B.Construct framing with joints true and tight and well fastened with members assembled according to best practice.

C.Brace structure adequately during erection. D.Adequately anchor installed work. E.All framing shall be of first class quality and workmanship.

F.Drive_pins are not permitted in any structural wall.

SECTION 6.3 FINISH CARPENTRY & MILLWORK

A.Millwork of all types including milling of all interior and exterior exposed wood members, door and B.Furnishing and installation of the interior hollow metal doors and frames. Hollow metal doors and

frames shall conform to the specifications and standards of Section 8.4 of this Specification. C.Includes finish carpentry and the installation of doors and frames, blocking, case and cabinet work, millwork, plastic laminate work, and false beams as indicated on drawings, and furnishing and installation of the Finish Hardware package.

All Exterior and Interior finish lumber shall be net 3/4" thick for 1" material, and net 1_1/2" thick for all 2" material. The above applies to both surfaced and saw_textured material. All lumber shall conform to the standards and grading rules of the Western

Wood Products Association, 1995 edition. Unless specified otherwise all lumber material grain patterns may be provided mixed grain.

All finish lumber shall be stored on_site off the around, well ventilated and covered. All interior material shall be stacked and labeled in the room in which it will be applied, prior All interior finish material shall be dried to a maximum moisture content of 15% and sha

indicate "MC_15" on the grade stamp. All exterior material shall be back and edge primed/sealed by Painting Contractor prior to application on building surface. All finish wood material shall be installed over asphalt

saturated building paper. Window Frames and Stops: All material shall be S4S. Western Red Cedar. "C Select" arade

and shall conform to WWPA section 10_12 or as shown on plans. Door Frames and Stops: All material shall be S4S. Douglas Fir. "Prime Finish" grade and shall conform to WWPA Section 10.52 or as shown on plans. Wood Trim: All material shall be saw_textured (exposed surface) by band saw. Western Red

Cedar, "D Select" WWPA Section 10.13 or as shown on plans. Plywood: All finish plywood shall be 3/8" thick, exterior grade, American Plywood Association Siding #303_6_S/W with lapped edge, rough_sawn textured. Plywood shall be any Group 3 material, unless a specific material is called for on the drawings.

Parapet inside Face: 1/2" ext. ply, medium density resin face if shown on plans.

Wood Trim: All interior wood trim and materials shall be S4S, Douglas Fir, "Prime Finish" grade and shall conform to WWPA Section 10.52; or Idaho White Pine, "Choice IWP" grade and shall conform to WWPA Section 10.12.

Oak Trim & Siding: Shall be S4S, Red Oak, plain sawn, "Grade I" and conform to the Architectural Woodwork Institute's (AWI) Quality Standards, Section 100S_1. Decking shall be "C" select kiln dried saw textured Douglas Fir and shall conform to WWPA section 10.12.

D.Nailing (Exterior): All trim and siding shall be nailed with hot_dipped galvanized finish nails. No electroplated nails will be allowed. Lumber 1_1/2" and larger shall be nailed with 20d finish, and lumber less than 1_1/2" shall be nailed with 8d finish. Nails shall be driven flush with surface. Do not set any exterior nailing.

E.Nailing (Interior): All nailing shall be with finish nails, set for putty before stainina/finishina. A saw_textured material, nails shall be driven flush.

3.3.3INTERIOR FINISH

A.Mill. fabricate and erect interior finish materials as indicated. Machine sand at the mill and hand_sand smooth at job site as necessary. Contractor to ease all edges of finish material B.Interior trim set against plaster or wood shall be run with hollow backs. Make joints tight and in

a manner to conceal shrinkage. Secure trim with fine finishing nails, screws, or glue where required. Set nails for putty, where surface is S4S. .Window and door trim shall be single lengths, base in long lengths. Miter moldings at corners, cope at angles. Door jambs with scarfed joints are not permitted. All segments of jambs shall be in single lengths.

6.3.4CABINET WORK A.Fabrication and installation of all cabinets shall be as indicated on the construction documents All cabinets shall be laminate clad, exposed face frame and shall conform to the minimum standards of the Architectural Woodwork Institute; AWI quality grade "Custom Grade" (AWI

Section 400B). B.All cabinet shelving shall be adjustable. Detailing for shelf connection (adjustable track) to uprights shall be in conformance with AWI quality grade "Custom Grade". C.All cabinets shall be mill fabricated, complete with rails, styles, cabinet hinges, pulls, catches an

hinges: Ferum #FE12-NP Nickel Plated (piano hinae) locks: National YN8703-14-KAI (keyed alike) Bright Nickel

locks. Cabinet finish hardware shall be as follows:

pulls: Ferum #FE1484 Chrome drawer guides: Knape & Vogt #1455

elbow catch: Epco #EP10189N Nickel (installed at inactive side of cabinet door pairs). D.See section 6.4 of this specification for plastic laminate requirements, manufacturer and finish. 5.3.5<u>HARDWARE INSTALLATION</u>

A.Accurately fit and install all finish hardware items furnished under the "Finish Hardware" section 8. of this specification. B.If surface applied hardware is fitted and applied before painting, remove all such items, excep

butts, re_install after painting work is complete. C.Properly label and deliver all keys to OWNER.

All wood finish, millwork and cabinet work shall be true to details, clean and sharply defined. Panels shall be set to allow for free movement in case of swelling or shrinkage. Means of fastening various parts together shall be concealed. All wood finish and cabinet work shall be dressed, sanded and cleaned before priming. All materials showing machinery, sandpaper or other defacing marks will be rejected. All work shall be first class construction and to the satisfaction of OWNER. No plywood edge grain shall be exposed on cabinets or shelving; all such areas shall be self_edged.

SECTION 6.4 PLASTIC LAMINATE

Includes all labor, material and equipment required to furnish and install all high pressure

6.4.1<u>SCOPE</u>

4.Dow Chemical Thermax Insulation Board laminated plastic as shown on the construction documents.

A.Plastic Laminate shall be .050 inches thick, "General Purpose Type". Color, texture and finish shall be as specified in the Color/Material Schedule on the construction documents. B.Adhesive shall be as recommended, and approved by plastic laminate manufacturer.

6.4.3INSTALLATION

A.Application of plastic laminate to various surfaces shall conform to all manufacturer's instructions and shall to the satisfaction of OWNER. B.At self edged surfaces, the flat top layer shall overlap the vertical surfaces and then corner edge shall be routed smooth.

MOISTURE PROTECTION

7.1.1 The "General Requirements" of these specifications are hereby made a part of this Division. SECTION 7.2 ROOFING AND MANSARD COVERING

GENERAL

SECTION 7.1

A.Includes all materials, labor and accessories to complete the work specified on drawings 3.Related items installed under other section. .Sheet metal

C.All joints to be tight to adjoining surface, unless noted otherwise on plans.

Mechanical, Electrical and Plumbing roof jacks. C.Pre-installation Conference: Conduct conference at Project site. Review methods and procedures

related to roofing system including, but not limited to, the following: .Meet with Owner, Architect, Owner's insurer if applicable, testing and inspecting agency representative, roofing Installer, roofing system manufacturer's representative if required by manufacturer, deck Installer, and installers whose work interfaces with or affects roofing including installers of roof accessories and roof-mounted equipment.

2.Review methods and procedures related to roofing installation, including manufacturer's written Review and finalize construction schedule and verify availability of materials, Installer's personnel,

equipment, and facilities needed to make progress and avoid delays. Examine deck substrate conditions and finishes for compliance with requirements, including flatness. Review structural loading limitations of roof deck during and after roofing.

6.Review base flashings, special roofing details, roof drainage, roof penetrations, equipment curbs and condition of other construction that will affect roofing system. Review governing regulations and requirements for insurance and certificates if applicable. 8.Review temporary protection requirements for roofing system during and after installation.

9. Review roof observation and repair procedures after roofing installation. 10. The Roofing Contractor shall immediately notify the Owner in writing of any defective work by others, that might prevent him from properly performing his work in a first class workmanlike manner in accordance with this specification. He shall not proceed with any work until such defects are remedied and the work approved by the Owner.

I.Installer's Guarantee: Contractor shall provide to the Owner a two (2) year written guarantee for

all roofing against defective workmanship and materials including all components of roofing system such as roofing membrane, base flashing, roof insulation, fasteners, cover boards, substrate boards, roof pavers, and walkway products, and shall, upon notification, immediately correct any and all defects that may occur. — Unless noted otherwise below. 2.Manufacturer's Guarantee: For the flat roof sections, contractor shall provide to the Owner a twenty (20) year written manufacturer's system guarantee for all roofing against defective workmanship and materials including all components of roofing system such as roofing membrane, base flashing, roof insulation, fasteners, cover boards, and walkway products.

7.2.2MATERIALS AND INSTALLATION

FLAT ROOF (EQUIPMENT WELL) MATERIALS: ALL MATERIALS MUST BE TESTED BY THE ROOFING MANUFACTURER, MARKETED AS THEIR PRODUCT, INSTALL ROOF SYSTEM ACCORDING TO MANUFACTURER AND NRCA GUIDELINES COMPLYING WITH ALL REQUIREMENTS OF THE MANUFACTURER NDL GUARANTEE. THIS INCLUDES CURBS. WALLS. AND ALL PENETRATIONS.

A. Flat Roof (Equipment Well) Materials: (PVC) —(TPO IS NOT ACCEPTABLE)

Guarantee shall have No Dollar Limit (NDL).

1.POLYVINYL—CHLORIDE ROOFING. Class A" ratina, must be tested by the manufacturer and marketed as their product. All materials shall be delivered in original packages bearing the manufacturer's label. All materials shall be from one of the following manufacturers and shall conform completely to the manufacturer's specifications and NRCA standards. Installers are required to provide proof of certification by the appropriate manufacturer for the PVC product they intend to install. Accepted manufacturers are Johns Manville— Contact: Eric | 4. SUBMITTALS Smith @ 916 230-1536 or Durolast. - (no contact info)

a. PVC Membrane Sheet: ASTM D 4434, Type III reinforced membrane that contains KEE | B. Shop Drawings: Submit shop drawings showing layout, profiles and product components, (Elvaloy) to reduce plasticizer migration. If the membrane does not contain KEE, then including anchorage, accessories, finish colors and textures. a post installation coating is required to mitigate plasticizer migration.

i. Thickness: 60 mills nominal b. Sheet Flashing: Manufacturer's unreinforced sheet flashing of same material as sheet

c. Metal Termination bars, with anchors d. Fasteners: Factory-coated steel fasteners and metal or plastic plates meeting corrosion—resistance provisions in FMG 4470, designed for fastening membrane to substrate, and acceptable to membrane roofing system manufacturer. Product: High Load Fasteners and Plates

e. Miscellaneous Accessories: Provide pourable sealers, pre-formed cone and vent sheet flashings, preformed inside and outside corner sheet flashings, T-joint covers, termination reglets, cover strips, and other accessories. f. Provide factory fabricated boots for all conduit and pipe penetrations.

a. Flexible Walkways: Factory-formed, nonporous, heavy-duty, slip-resisting, surface—textured walkway pads sourced from membrane roofing system manufacturer. Place walk pads ground equipment that is accessed by a technician and the roof hatch with path between. See Roof Plan.

2.INSULATION AND COVER BOARD. a. Refer Section 7.4

SECTION 7.3 SHEET METAL

A.Includes all sheet metal formed sections, flashings, counterflashing, pitch pockets, diverters, gutter, downspouts, gravel guards, special screens, and attic vents. B.Does not include work covered in sections on plastering, plumbing, air conditioning, roofing and miscellaneous metal.

A.Flashing: ASTM A_93, 24 ga. standard zinc coated steel. B.Solder: ASTM B_32_60 at.

7.3.2<u>MATERIALS</u>

A.<u>Flashing</u>:

C.Downspouts: ASTM A_93, 24 ga. standard zinc coated steel (if shown on plans). D.Planter Box Liner: ASTM A_93, 16 ga. standard zinc coated steel (if shown on plans). 7.3.3INSTALLATION

4.All flashing to have one layer of 15 lb. asphalt felt under.

a synthetic Elastomer base caulking. All joints shall be set in caulking, pop_riveted, and caulking then applied to exterior of joint. No other type sealants are permitted. 2.Hem all exposed edges of metal. 3.Flash all ioints necessary for a watertight job whether specifically detailed or not.

1. All joints in flashings, coping metal, roof platforms, and other metal work, shall be installed using

5.All work shall be done in accordance with the "Sheet Metal and Air Conditioning Contractors" National Association" standards.

B. Downspouts and G.I. Gutters: 1. All joints shall be soldered, close for a fully watertight job.

2.Hem all exposed edges of metal. 3.Downspouts shall conform to the details as shown on the drawings.

4. All work shall be done in accordance with the "Sheet Metal and Air Conditioning Contractors National Association" standards. C.Parapet Coping, Gravel Stops, S-locks, and Flush Seam Paneling:

SECTION 7.4 INSULATION

.4.2MATERIALS AND INSULATION

A.Fiberglass Noise Barrier Batts, unfaced with nominal thickness 3_1/2 inches X 16_1/8 inches to fit framing. Select one of the following manufacturers:

.Certain Teed Fiberglas 2.Manville Building Materials 3.0wens/Corning Fiberglas

1. Conform to sectional profiles as shown on the drawings.

B.Thermal insulation at all exterior walls shall be minimum R_21 unfaced fiberglass. Select one of the following manufacturer's (refer to plans for exact "R" values required): 1.Certain Teed Fiberalass

2.Manville Building Materials 3.0wens/Corning Fiberglas

C. Perimeter Slab Insulation: Rigid, cellular thermal insulation with closed-cells and integral high density skin, formed by the expansion of polystyrene base resin in an extrusion process to comply with ASTM C578 for type indicated; with 5-year aged R-values of 5.4 and 5 at 40 and 75 deg. F (4.4 and 23.9 deg, C.) respectively, 2" thickness. Thermal Value: R-10. Dow Chemical Co.. - Styrofoam SM

Owens-Corning - Foamular 250 Diversifoam Products - Certifoam SE Amoco Foam Products - Amofoam CM

D. Rigid Roofing Insulation: Minimum 2 layers of polyisocyanurate board insulation run perpendicular to minimize joint alignment. Insulation Thermal Value (R), minimum: R-38; provide insulation of thickness required for multi-layer application. E. All insulation batts shall be securely stapled to stude at walls.

SECTION 07420 - Metal Wall Panels

A. Section Includes: Composite fire resistive metal panels.

B. Related Sections: Section(s) related to this section include: 1. Sheet Metal Flashing and Trim: Division 07 Flashing and Trim Section. 2. Joint Sealers: Division 07 Joint Treatment Section.

A. General: Standards listed by reference, including revisions by issuing authority, form a part of this specification section to the extent indicated. ASTM International:

1. ASTM D1781 Standard Test Method for Climbing Drum Peel for Adhesives ASTM D1929 Standard Test Method for Determining Ignition Temperature of Plastics. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials. ASTM E108 (Modified) Standard Test Methods for Fire Tests of Roof Coverings.

ASTM E119 Standard Test Methods for Fire Tests of Building Construction and Materials. ASTM E283 Standard Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen. 7. ASTM E330 Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls,

and Doors By Uniform Static Air Pressure Difference. 8. ASTM E331 Standard Test Method for Water Penetration of Exterior Windows, Curtain Wall, and Doors By Uniform Static Air Pressure Difference.

1. AAMA 2605 Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels. D. National Fire Protection Association (NFPA)

Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components

after 15 minutes.

C. American Architectural Manufacturers Association (AAMA):

A. Performance Requirements: Provide composite metal panels that have been manufactured, fabricated and installed to withstand loads from deflection and thermal movement and to maintain performance criteria stated by manufacturer without

defects, damage or failure. Water and Air Leakage: Provide systems that have been tested and certified to conform to the following criteria:

1. NFPA 285 Standard Fire Test Method for Evaluation of Fire Propagation

1. Air Leakage, ASTM E283: Not more than 0.06 cfm per ft2 of wall grea (0.003 (L/s m2) when tested at 1.57 psf (0.075 kPa). Water Penetration: No water infiltration under static pressure when tested in accordance with ASTM E331 at a differential of 10% of inward acting design load, 6.24 psf (0.299 kPa) minimum,

a. Water penetration is defined as the appearance of uncontrolled water in the

b. Wall design shall feature provisions to drain to the exterior face of the wall any leakage of water at joints and any condensation that may occur within the construction. C. Structural: Provide systems that have been tested in accordance with ASTM E330 at

specified design pressure and have been certified to be without permanent deformation or failures of structural members. Fire Performance: Provide composite fire rated panels that have been evaluated and are in compliance with regulatory code agency requirements specified herein.

Division 01 Submittal Procedures. 1. Include details showing thickness and dimensions of the various system parts,

A. General: Submit listed submittals in accordance with Conditions of the Contract and

fastening and anchoring methods, locations of joints and gaskets, and location and configuration of joints necessary to accommodate thermal movement. C. Samples: Submit selection and verification samples for finishes, colors and textures, 1. Selected Samples: Manufacturer's color charts or chips illustrating full range of colors, finishes and patterns available for composite metal panels with factory

Verification Samples: a. Provide 12 inch × 12 inch (305 × 305 mm) sample composite panels in thickness specified from an available stock color, including clips, anchors. supports, fasteners, closures and other panel accessories, for assembly approval. Include panel assembly samples not less than 24 inches × 24 inches (610 ×

D. Quality Assurance Submittals: Submit the following: 1. Test Reports: Certified test reports showing compliance with specified performance characteristics and physical properties, or a third party listing documenting compliance to a comparable code section.

Certificates: Product certificates signed by manufacturer certifying materials comply with specified performance characteristics and physical requirements. Manufacturer's Instructions: Manufacturer's installation instructions.

Manufacturer's Field Reports: Manufacturer's field reports. E. Closeout Submittals: Submit the following: 1. Warranty: Warranty documents specified.

610 mm) showing 4-way joint.

A. Qualifications:

5. QUALITY ASSURANCE

1. State of Florida.

1. Installer Qualifications: Installer experienced in performing work of this section who has specialized in the installation of work similar to that required for this project. a. Certificate: When requested, submit certificate indicating qualification. 2. Manufacturer Qualifications: Company with a minimum of 5 years of continuous

experience manufacturing panel material of the type specified.

metal panel projects and qualified by panel material manufacturer. Capable of providing field service representation during construction. B. Regulatory Code Agencies Requirements: Provide composite fire rated panels which have been evaluated and are in compliance with the following:

6. DELIVERY, STORAGE & HANDLING

or other surface damage.

A. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.

1. Protection: Protect finish of panels by applying heavy—duty removable plastic film

Delivery: Package composite wall panels for protection against transportation damage. Provide

narkings to identify components consistently with drawings.

Handling: Exercise care in unloading, storing and installing panels to prevent bending, warping twisting and surface damage.

B. Storage and Protection: Store materials protected from exposure to harmful weather conditions and at temperatures recommended by manufacturer. 1. Storage: Store panels in well-ventilated space out of direct sunlight.

a. Protect panels from moisture and condensation with tarpaulins or other suitable weather tight covering installed to provide ventilation.

2. Damage: Avoid contact with any other materials that might cause staining, denting

Slope panels to ensure positive drainage of any accumulated water. c. Do not store panels in any enclosed space where ambient temperature can exceed 120 degrees F (49 degrees C).

PROJECT CONDITIONS A. Field Measurements: Verify actual measurements/openings by field measurements before fabrication; show recorded measurements on shop drawings. Coordinate field

measurements, fabrication schedule with construction progress to avoid construction WARRANTY

A. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and not a limitation of, other rights Owner may have under the Contract Documents.

1. Warranty Period: a. Panel Integrity: 10 years commencing on Date of Substantial Completion.

Finish: 15 years commencing on Date of Substantial Completion. 9. COMPOSITE FIRE RESISTIVE METAL PANELS

A. Manufacturer: Mitsubishi Plastics Composites America, Inc. 1. Contact: 401 Volvo Parkway, Chesapeake, VA 23320; Telephone: (800) 422-7270; Fax: (757) 436-1896; E-mail: **info@alpolic.com**; website: www.alpolic-northamerica.com

B. ALPOLIC/fr Composite Fire Resistive Metal Panels: 1. Panel Thickness: 4 mm.

A. Substitutions: No substitutions permitted

10. PRODUCT SUBSTITUTIONS

Core: Thermoplastic core material with inorganic fillers that meets performance characteristics specified when fabricated into composite assembly 3. Face Sheets: Aluminum alloy 3105 H14 and as follows:

a. Coil coated with a fluoropolymer paint finish that meets or exceeds values

expressed in AAMA 2605 where relevant to coil coatings. 4. Bond Integrity: Tested for resistance to delamination as follows: a. Peel Strength (ASTM D1781): 22.5 in-lb/in (100 N-m/m) minimum.

b. No degradation in bond performance after 8 hours of submersion in boiling water and after 21

days of immersion in water at 70 degrees F (21 degrees C). Thermally bonded to the core material in a continuous process under tension 5. Fire Performance:

a. Flamespread. ASTM E84: <25. Smoke Developed, ASTM E84: <450. Surface Flammability, Modified ASTM E108: Pass.

Ignition Temperature:

5. MANUFACTURER'S INSTRUCTIONS

12. FABRICATION

1) Flash, ASTM D1929: 716 degrees F (380 degrees C). Ignition: 752 degrees F (400 degrees C). e. Flammability, Exterior, Non-load-bearing wall assemblies and panels, NFPA 285:

1. ACCESSORIES A. General: Provide fabricator's standard accessories, including fasteners, clips, anchorage devices and attachments for specific applications indicated on contract documents.

A. General: Shop fabricate to sizes and joint configurations indicated on drawings. 1. Where final dimensions cannot be established by field measurements, provide Form panel lines, breaks and angles to be sharp and true, with surfaces that are free from

warp or buckle. 3. Fabricate with sharply cut edges and no displacement of aluminum sheet or protrusion of core. 13. FINISHES

A. Factory Finish: Lumiflon-based fluoropolymer resin coating that meets or exceeds

values expressed in AAMA 2605 where relevant to coil coatings. 1. Color: As noted on drawings. 4. SOURCE QUALITY A. Source Quality: Obtain composite panel products from a single manufacturer.

A. Compliance: Comply with manufacturer's product data, including product technical bulletins, product catalog installation instructions and product carton instructions. 6. EXAMINATION

under other sections are acceptable for product installation. 17. INSTALLATION A. General:

1. Install panels plumb, level and true in compliance with fabricator's

Anchor panels securely in place in accordance with fabricator's approved shop drawings. Comply with fabricator's instructions for installation of concealed fasteners and for installation of joint sealers.

4. Installation Tolerances: Maximum deviation from horizontal and vertical alignment of installed

A. Site Verification of Conditions: Verify that conditions of substrates previously installed

panels: 0.25 inch in 20 feet (6.4 mm in 6.1 m), noncumulative. 18. ADJUSTING A. Adjusting:

1. Repair panels with minor damage such that repairs are not discernible at a

distance of 10 feet (3 m). Remove and replace panels damaged beyond repair. Remove protective film immediately after installation of joint sealers and immediately prior to

4. Remove from project site damaged panels, protective film and other debris attributable to work

of this section. 19. CLEANING A. Cleaning: Remove temporary coverings and protection of adjacent work areas. Repair or replace damaged installed products. Clean installed products in accordance with manufacturer's instructions prior to owner's acceptance. Remove construction debris

20. PROTECTION A. Protection: Protect installed product's finish surfaces from damage during construction.

from project site and legally dispose of debris.

SECTION 7.5 CAULKING AND SEALANT

1.Dow Corning: Silicone Sealer #795

B.Silicone (Building Seglant):

completion of composite metal panel work.

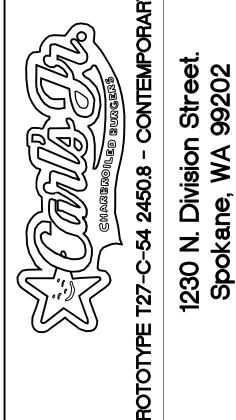
Caulk all joints between masonry and wood, masonry and break metal, and all other dissimilar materials. 7.5.2MATERIALS A.Polyurethanes: 1.Svnthacalk GC-2+ Polysulfide

C.Silicone (Interior Sealant): 1.Dow Corning: Mildew Resistant #786 3. Fabricator Qualifications: Company with at least 3 years of experience on similar sized 2.General Electric: Silicone Sanitary Sealant #SCS1700

2.General Electric: Silpruf #SCS2000 Weatherproof Sealant

CTS, Fidaho 83° Б,е Ш <u>..</u> or to

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PROJECT: 151101 DATE: 06/10/16 DRAWN: kk/js CHECKED: jh

Permit Set

SPECIFICATIONS

SHEET TITLE:

SHEET NUMBER:

SP.3

A.Doors and frames shall be installed plumb, rigid and with all clearance accurately maintained. See ssible areas, unless otherwise indicated on drawings). plans for details. 3. Corner Mat (for exposed outside corners in medium—to—high—impact areas). 3.Clearance at the lock, hanging stiles and top shall not exceed 1/8 inch; at bottom shall not .Textured Finish acrylic based, integral colored sandpebble textured wall coating. Red colors to have exceed 1/4 inch, unless undercut for relief air. manufacturers appropriate color fade inhibitors to maintain a long lasting color C.All door arises shall be rounded to an 1/8 inch radius, and lock rail edges shall t a. Vinyl Cop Series #332, Vent Screen - 3" wide D.The screws for hardware shall <u>not</u> be driven; pre_drill all screw holes b. Starter Blad — front weep holes E.All doors shall operate freely, but not loosely without sticking or binding, and with all hardware c. Casing Bead — no weep holes properly adjusted and functioning 1-5/8". d. Corner Bead F.See Finish Hardware Schedule on the drawings SECTION 8.4 GLASS, GLAZING AND STOREFRONT 7.8.3.1 <u>SITE EXAMINATION</u> A.Prior to actual start A.Furnish and install all glass, glazing, and drive_thru pass_out window-(8.4.5), entry doors, and window framing sections; complete, including all hardware, gaskets, sections and accessories. B.Alert General Contractor, Manufacturer, and Owner to any undesirable/adverse conditions. Do not The contractor shall purchase and install the "Carl's Jr. Frosted Star Kit" (8.4.6), on pair of D.Wire Lath, (Horizontal Surface): 3/8 inch rib, galvanized metal self_furring lath, 3.4 lbs per proceed until resolution is effected B.Field conditions: Verify drawing dimensions with actual field conditions. Inspect related work and 7.8.3.2 PREPARATION adjacent surfaces. Report all conditions which prevent proper execution of this work to C.Metal Accessories: A. Verify that products are those specified indamaged, and otherwise acceptable.

B. Verify that surfaces to be covered are true clean, dry dust free, and otherwise acceptable. C.Warranty: Sealants and storefront sections installed in conjunction with work of this section sha C.Place protective coverings over adjoining surfaces/elements. be warranted for a time period of two years from date of installation. 8.4.2<u>materials</u> A.Apply all materials in strict accordance with penafacturer's recommendations; maintain this Section, Details/Shop Drawings, and printed manufacturer's recommendations, details, and specification A.Glass shall be of the dimensions as indicated in the Window Schedule on the drawings; verify size with accurate field framed opening. All glass shall conform to the following specifications on site throughout duration of work. and manufactured by one of the following companies: B.Apply all materials in compliance with manufacturer's conditions precedent for warranty. .Visteon Glass C.Perform all application under favorable condition Lucive to optimum long—term performance o 2.LOF Glass 3.PPG Industries D.Provide uniform 3/4 inch wide joints for backer rous can sealants where indicated on Drawings. E.Sand or rasp face of installed EPS insulation board, readering smooth and flat to within 1/4 in 8' Shall be 1/4 inch thick, clear glazing quality float glass and shall meet a.Plate Glass: requirements of ASTM C-1036. See plans for location. in all directions; use 8' straightedge to assure compile .Tempered Safety Glass: Shall be 1/4 inch thick, clear glass and meet the quality and strengt F.Consider quantities of "wet goods" recommended by manufacturer as minimum quantities; requirements of ASTM C-1048. All tempered glass must show permanent identification. application of lesser amounts or amounts of any one layer thicker than 1/4 inch is not Location per plans and building codes. c.Double (Insulated) Glazing: PPG SOLARBAN 60 - 1" thick low-e, double glazed (this represents G.Back wrap, coat, and finish all edges/interruptions as recommended/detailed by manufacturer; use total glass thickness including air space), insulated glass shall be installed at all locations specified on the Window Schedule. Glazing units shall have a MAXIMUM System where 15.0oz mesh is used in combination with 4.5oz. Mesh at areas subjected to U-Factor of .28 and a MAXIMUM SHGC factor of .39. Glazing units shall be assembled anticpated abuse and as indicated on the drawings. H.Perform all work in a good workmanlike manner, detailing as equired. Exercise measures .Exterior Light: 1/4" thick, clear glass. necessary to provide uniform finish free of cold joints, sciffold lines, and/or texture 2. Air Space: 1/2" thick. 3.Interior Light: 1/4" thick, clear alass . Coordinate through General Contractor such related items as caulkind and flashing to ensure Glazing units shall be factory fabricated/sealed with dry air. See Window Schedule for weathertightness of exterior cladding assembly. glass type (plate or tempered safety glass). J.Use tools (including mixers) and application techniques/methods approved this specific Project. 3.<u>Aluminum Storefront System</u> (when shown on plans) K.Clean up site and adjoining surfaces, leaving free of excess materials, packaging, and/or other .Storefront aluminum to be stock sections and sizes as detailed on plans. Approved suppliers are Kawneer Company TRIFAB 451T with dual glazing or U.S. Aluminum/ C.R. Laurence of equal . Secure required approvals/acceptances of completed work 2.Entry doors to be Kawneer, Paneline, Series 451, medium stile. Double door set to be provided with removable astragal. Clear Anodized Brushed Aluminum Finish unless noted otherwise on Provide a complete High Performance Weather Barrier Assembly including weather barrier 3.Break shapes: When shown on plans. membrane (number of layers as noted in other specification sections), seam tape. flashina. 4. Weathering: Door frames shall be equipped with door stop Sealair Weathering. Air infiltration shall fasteners and all manufacturer required items. not exceed 0.50 CFM per lineal foot of perimeter crack when tested at 1.567 PSF. 5.Aluminum Finish: Color to be #17 clear anodized—(unless noted otherwise on plans). All aluminum 7.9.2MATERIALS finishes to be Architectural Class I, 0.7 mil thickness and 32 mg. coverage per square Spunbonded polyefin, non-woven, non perforated weather barrier — DuPont Tyvek CommercialWrap D and related assembly components manufactured by: 6.Set thresholds secure to floor with matching counter—sunk screws in expansion shield. Thresholds DuPont; 4417 Lancaster Pike, Chestnut Run Plaza 728, Wilmington, DE 19805. shall have end sections with mitered corners, set tight to exterior concrete walks, and Phone: (800) 448-9835; www.construction.tyvek.com shall extend to the outer edges of the door jambs. Notch as necessary around jambs. 7.9.3 ACCESSORIES 8.4.3PROTECTION . Seam Tape: 3" DuPont Tyvek Tape. All aluminum sections and glass shall be wrapped in plastic or covered with suitable material a 2. Fasteners: DuPont Tyvek Wrap Caps — #4 nails with large 1—inch plastic cap fasteners. time of installation to prevent plaster and other foreign matter from adhering or damaging the | B.Total thickness: 7/8" minimum 3. Sealants: Provide sealants that comply with ASTM C 920, elastomeric polymer sealant to maintain material. water tight conditions. Product: DuPont Commercial Sealant. 4. Adhesives: Provide adhesive recommended by weather barrier manufactuer. 3.4.4INSTALLATION 5.Primers: Provide flashing manufacturers recommended primer to assist in adhesion between substrate and flashing. B.Installation to be in accordance with manufacturer's printed instruction. 6.Flashing: DuPont FlexWrap: Flexible membrane flashing materials for window openings and C.Bed all glass in aluminum sections in neoprene gaskets of same manufacturer as sections. Glass | 9.2.7 WORKMANSHIP to be augranteed not to rattle. D.Broken, scratched or defective glass will be replaced at no cost to OWNER. . Install weather barrier and all accessories as recommended by manufacturer. allowable areas, wind loads, glazing, etc. Tempered glass must be installed per Building Code Install weather barrier over exterior wall substrate in accordance with manufactuer standards and requirements. recommendations Before setting glass in wood stops a continuous full bead of silicone caulk will be applied to the 3. Install weather barrier prior to installation of windows and doors. stop. The glass shall then be pushed into the silicone and then the applied stops will be . Window and Door openings: Extend weather barrier completely over openings. . Overlap Weather Barrier: A. Exterior corners: minimum 12" 8.4.5<u>SLIDING PASS_THRU WINDOWS</u> (Provided by G.C.) B. Seams: minimum 6" A.Drive Thru sliding windows to be Ready Access West Coast Window #275 manual sliding windowphone (800)621-5045. Sliding windows to be ordered complete with a limit switch to operate the fly fan. This sliding window is to be ordered without a sill with 15 1/4" x 28" opening B.All metal frame members to be finished "clear" anodized aluminum color. DIVISION 8 DOORS, WINDOWS, GLASS C.See plans for size and location of window. D. Window and frame assembly to be installed per manufacturer's instructions. SECTION 8.1 GENERAL E.Sliding window to operate freely and to the complete satisfaction of OWNER. Specify correct slide side of window when ordering. 8.1.1The "General Requirements" of these specifications are hereby made a part of this Division. Slide opening 15 $\frac{1}{4}$ " x 28". Glazing Rough Opening 47-3/4" W x 59-3/4" H SECTION 8.2 METAL DOORS AND FRAMES Masonry Rough Opening 48"w x 60"H 8.4.6<u>CARL'S JR. FROSTED STAR KIT</u> Furnish and install exterior metal doors and frames as indicated on the contract documents. A.The contractor shall purchase the "Frosted Star Kit" from: XLNT TINT Window Tinting, Inc. 8.2.2MATERIALS 2940 E. La Palma Avenue A.Metal doors shall be 18 gauge A60 galvanneal steel, bonderized finished with one coat baked on Suite "C" primer paint. Doors to be 1_3/4 inch thick; see Door Schedule on plans for width and Angheim, CA. 92806 height. Doors to be installed with flush metal caulked top cap. Delivery door shall have Contact: Jennifer Schuch @ 800-495-6884 Polyurethane core- meeting R Value 10 or greater, & continuous hinge. Select one of the iennifers@xlnttint.com following manufacturers: B.Each Star Kit will include pre-cut frosted star pieces, instructions on how to install, and the 1. The Ceco Door: UltraDor required tools for its installation. Normal lead time for shipping is two weeks. 2.Republic Builders Products: "DE" Series doors C.The Star Kit will be shipped in a cardboard box and secured on a hard plastic core suspended by 3. Steelcraft L-18 Series door end caps. Amweld 17L Series door 5.Curries: 707 Series door SECTION 8.5 FINISH HARDWARE B.Metal frames shall be 16 gauge A60 galvanneal steel, double rabbeted shape. Frames to be bonderized finished with one coat baked on primer paint. Frames shall have a 2 inch face frame and sized for 1 3/4 inch metal doors. See Door Schedule for width and height A.Furnish and install all finish hardware and toilet accessories as per hardware specification o dimensions; see Architectural details for jamb depth dimensions. Frames to be furnished knock_down. Select one of the following manufacturers: B.Hardware installation includes but is not limited to the following: 1. The Ceco Door: "SU or SQ" Series 1. Hardware for all doors (excluding aluminum/glass storefront doors). 2.Republic Builders Products: "ME416" Series 2.Door stops as required (excluding aluminum/glass storefront doors). 3. Steelcraft: "F 16" Series 3. Toilet Room and Kitchen accessories as scheduled and indicated on plans. 4. Amweld: 0400 Series A.All hardware shall be exactly as specified on drawings. No substitutions will be allowed. A.Doors and frames shall be installed plumb, rigid and with all clearance accurately maintained. See B.Supplier will furnish all necessary blueprints, templates and other detailed information as necessary plans for details. relative to the hardware installation. SECTION 8.3 DOORS AND FRAME (INTERIOR) A.Install all hardware in accordance with manufacturer's recommendations. 3.3.1<u>SCOPE</u> B.Carefully fit hardware before painting, remove prior to and reinstall after painting is complete. C.Provide and install solid backing as required for mirrors, accessories, grab bars, etc. Furnish and D.Set thresholds in mastic bed and secure to floor with matching counter sunk screws in expansion drawinas. shield or by other approved methods. E.Install door closures "parallel" at all entry and delivery doors. A.Solid core doors with Low-Pressure Decorative Laminate (herein referred to as "LPDL"). Thermal face complying with WDMA I.S. 1-A. 2004 edition. Performance duty level: Extra Heavy Duty. B.Frames shall be 16 aguae cold_rolled steel, double rabbeted shape. Frames shall be factory A.All locks to be keved alike with replaceable cores. Kevs shall be delivered to OWNER.

shall be painted to match adjacent surface finish.

DIVISION 9

SECTION 9.1 GENERAL

C.Contractor shall check hardware specifications for all toilet accessories which are recessed.

8.3.3INSTALLATION

Rinforcing Mesh. (for ultra—high impact areas). For use on full height of walls in

SECTION 9.2 LATHING AND PLASTERING (If Drawings show E.I.F.S. system- refer to Section 7 of these specifications) A.Includes all labor, services, materials, equipment and scaffolding to complete all lathing, furring for plaster and plastering, including trash enclosure when required. B.Included all labor and materials for application of wire lath and cement plaster for masonry veneer backing, where shown on the drawings. C.Comply with applicable building codes and ordinances for materials, construction, tests and A. Manufacturer: STO CORP (StoPowerwall system) or approved equal 7 days prior to bidding. B. Provide Stucco, Primer and Finish from single source manufacturer. C.Wire Lath, (Vertical Surface): Building paper backed, self_furring, zinc_coated galvanized welded wire fabric lath, 16 X 16 gauge, 2 inches on center, lath shall conform to Federal Specification UU_B_790a; lath installed with 11 gauge stiffener wire at 6 inches on center, horizontally apply over two(2) layers of TYVEK Commercial D weather barrier. See section 7.9. square yard and shall conform to Federal Specification QQ_L_101c. 1. Weep Screed: Superior #SWS-078-W312G 2.Casing: Superior # SJB-078-200G 3.Corner Bead: Inryco/Milcor No. 1 4.Soffit Screen: Superior #STP-078-V312G 5.Expansion Joint: Superior #SSJ-078-100G 6.Exterior Wainscot Band: Fry Reglet DCS-625-400- (Protect to remain unfinished) D.Sand: Clean washed plastering sand. Comply with "Standard Specifications for Sand for Plaster". ASTM C 35. E.Cement: Comply with "Standard Specifications for Portland Cement", ASTM C_150,Type 1. F. Water: Unpolluted at time of use. Obtain from a domestic supply. A.Accurately measure ingredients and thoroughly mix together. Mix no more than can be used within one_half hour after mixing. No batter allowed to remain in mixer or mixing boxes overnight. Keep mixer and mixing boxes thoroughly clean. B.Cement Plaster: . Stucco — StoPowerwall Stucco — Factory proportioned, fiber reinforced portland cement based stucco for trowel or pump application, field mixed with graded sand and water. .Primer - Sto Hot Prime - acrylic based primer/sealer 2. Finish coat — Sto elastomeric or silicone enhanced elostomeric textured wall finish. 9.2.4SPECIAL CONDITIONS A.Provide for proper moist curing of exterior Portland Cement plaster including weekends B.Install casing beads wherever plaster terminates or abutts a dissimilar material C.Provide and maintain scaffolding, trestles, planking, etc., in accordance with applicable laws and D.Provide cement plaster and wire lath for building masonry veneer backing, 3/4" thick, as shown o the drawinas without buckles. 9.2.6APPLICATION OF PLASTER 9.3.2MATERIALS 1. James Hardie Gypsum 3.United States Gypsum 4.Pabco Gypsum A.Gypsum Panels: B.Interior Panels: C.Interior Waterproof Panels: D. Joint Treatment Materials: Color: White. Thickness: 6 mil F. Metal Accessories: expanded flanges. F. Fasteners:

E. When integral color stucco is called for in plans, the contractor is to test the color prior to application to assure matching of specified paint. Use standard La Habra stucco color as indicated on finish schedule. 9.2.5 WIRE LATHING APPLICATION A.Apply wire lath with long dimension of sheets at right angles to supports. B.Lap lath not less than one inch at ends and one_half inch at edges. Securely lace lath together with tie wire. Tie lath together once between each pair of supports. Apply lath straight C.See Structural Drawings for required lath nailing at vertical surfaces for shear wall application. D.Wire lath shall be continuous across building wall area, including all areas to be covered with A.Cement Plaster: Apply scratch coat and deep moist at least 48 hours before applying brown coat. Apply brown coat and deep moist. Apply finish coat not sooner than seven days after brown C.Finish Coat to be an integral color. See plans for color, material, and finish texture. A sample of finish coat and texture to be submitted to OWNER for approval prior to application. D.Where plaster and lath is backing for masonry; apply scratch and brown coats, 3/4" thickness. Plaster to be finished smooth and plumb, ready to receive masonry veneer. A.Defects arising due to defective workmanship and/or materials of plastering contractor shall repaired and finished in accordance with directions of OWNER. E.All alass and alazina to conform to requirement of the local Buildina Code, with respect to B.Plasterina shall finish true to line, plumb or level as the case may be, square to adjoining work free from imperfections, cracks, scratches or discoloration. C.Crazed or cracked plaster within first week after application will be rejected. D.Do all necessary patching and painting of plastering in a skillful manner to match adjoining work. Fill all nicks and mars after finish carpentry. 9.2.8CLEANING AND PROTECTION A.Protect work of other trades from damage due to lathing and plastering. B.Clean plaster immediately from un-plastered surfaces. Clean_up plastering debris and remove SECTION 9.3 GYPSUM WALLBOARD Includes all labor, materials and appliances for the installation of gypsum wallboard as shown on | D.Interior saw_textured planking: (where applicable) the plans. Also includes interior vapor retarder and metal framing, when shown on plans. See All materials to be manufactured by one of the following manufacturers only: 2.Gold Bond Gypsum Wallboard All gypsum panels and accessories shall be the product of one manufacturer, shall tapered edge and shall be in lengths as long as practicable. Shall be 5/8" thick and shall conform to the requirements of ASTM C_36. When shown on plans and required by governing authorities, panels shall be 5/8" thick type "X", sheetrock firecode gypsum panéls. Shall be 5/8" thick sheetrock water/moistures resistant gypsum panels. Install in accordance with I.C.B.O. Report No. 2240 and conform to ASTM C_630. 1. Joint tape: Perforated, spackled, ASTM C_474_61T. 2.Edge reinforcing and accessories: See section E of 9.3.2. 3. Joint Compound: as recommended by gypsum panel manufacturer. E.Interior Vapor Retarder: ASTM D4397 polyethylene film reinforced with glass fiber square mesh. 1.Corner reinforcing: aglyanized steel external corner reinforcement with 1_1/4 inch wide fine_mesh 2. Edge reinforcing/trim: galvanized steel reinforcement with a 1_1/4 inch wide fine_mesh expanded flange, L_shaped trim, 5/8 inch size. 1. Nails: Cooler nails, size as required. 2.Screws: 1_1/4" type "W", and Type "C". 9.3.3APPLICATION A.Examine surfaces on which drywall is to be applied for defects or misalianed framing. Do start work until such defects are remedied. B.Refer to manufacturer's printed instructions for application of various materials. C.All joints shall be closed with perforated tape imbedded in joint compound with the three coat method, sanding after each coat. Nail heads shall be spotted with joint cement and sanded D.All exposed and painted gypsum board shall be finished with a medium "Orange Peel" texture. E.Install water/moisture resistant gypsum board at the following wall locations: 1.at all ceramic wall tile 2.at all Scullery walls B.All surface mounted door closures to be installed with sex bolts completely through door. Hea 3.at all walls surrounding water heater 4.at all walls surrounding mop sink F.At all waterproof panels, apply water resistant sealant to all cut edges and nail heads. G.Metal reinforcina/trim shall be installed as detailed on the drawings. Corner reinforcing shall be **FINISHES** installed full height at all external aypsum board corners. 9.1.1The "General Requirements" of these specifications are hereby made a part of this Division. When required by building officials, wallboard nailing to be inspected before joint tape is applied.

3.Apply one (1) coat SPARTASHIELD, 100% AcrylicExterior Semi-Gloss Paint (SSHL50), no less than one hour or more than 24 hours after application of primer. See Schedule for type. H.Apply one (1) coat SPARTASHIELD, Exterior Semi-Gloss Paint (SSHL50), See Schedule for type. K.Interior gypsum board:

SECTION 9.4 PAINTING

additional compensation

good condition.

A.Paint Manufacturers:

2.Dunn_Edwards Paints

3.Frazee Industries, Inc.

5.Pratt & Lambert Paints

listed in 9.4.5.

9.4.6PREPARATION OF SURFACES

B.Anti_Graffiti Paint and Clear Finish (when noted on plans)

A.High Performance Materials Pigmented Primer

arising therefrom at no cost to OWNER.

properly prepared for the work.

parapet G.I. cap strip.

B.Interior surfaced wood trim (stained): Satin Polyurethane

C.Interior surfaced wood trim (painted): Paint Finish Semi-Gloss

E.Exterior surfaced and rough sawn wood: Paint Finish Semi-Gloss

prior to application of wood material to building surface.

vinyl wall fabric. (No latex sealers are permitted.)

1. Wash surface with mineral spirits to remove dirt and oil.

2. Where shop coat is abraded, spot prime with rust inhibitive paint.

1. Apply SUPREME CHEMICAL, METAL CLEAN AND ETCH (ME 01) Pre-treatment.

F.a Exterior metal doors and frames: Ferrous

G.Gypsum board sealer for wall covering:

H.Exterior Masonry and trash enclosures:

Interior & Exterior ferrous metals:

schedule for type.

J.Interior and Exterior galvanized metals:

F.b Exterior metal doors and frames: Non-Ferrous

places that have been shop coated.

application of wood material to building surface.

standards before applying finish paint or stain.

A.Design is based on products manufactured by Sherwin Williams.

odorless, single component, waterbased acrylic primer.

single component, water-based acrylic urethane paint.

a.Color shall be slected by OWNER from the manufacturer's full line of standard colors.

b.Coatings shall have been tested in accordance with the manufacturer's printed literature.

4.Pittsburgh Paints

2.<u>Materials</u>

9.4.7APPLICATION

A.General:

1. Sherwin_Williams Company

.4.4<u>Protection of work</u>

Includes all interior and exterior painting of building as specified and scheduled; including all or

OWNER may require several color samples of paint on material which it is to be applied without

The painter shall store all materials and equipment in a room assigned for that purpose

Precautions shall be taken to reduce the fire hazard. The room shall be left clean and in

Furnish and lay drop cloths or do any necessary masking on all areas where painting is being

Paints, stains and varnishes shall be as specified and as described on the Color/Materia

Schedule. The following approved manufacturers may be substituted for specified manufacturers

as shown on Color/Material Schedule. It is the Painting Contractors responsibility to ensure any

substituted manufacturer's materials matches specified material's color, tint, sheen, and

application. In the event that non-standard or custom colors are specified on the plan sheet

finish schedule, the painting contractor shall be responsible to match those colors with the

B.Materials shall be the product of one manufacturer and shall be either the ones upon which the

1.Ultra-Shield Primer: ULTRASHIELD Multi-Surface Primer is a high performance, Zero-VOC, Zero-HAF

2.Finish Coat: ULTRASHIELD Gloss Plain is a high performance, Zero-VOC, Zero-HAP, very low odor

c.Anti_graffiti coatings shall be easily cleanable with Gramover or graffiti cleaners without requiring

B.Report any unacceptable surface to OWNER. Do not proceed until such surfaces are acceptable

C.All exterior wood siding, trim and exposed plywood siding shall be back and edge primed <u>prior</u>

D.All surfaces regardless of material or condition of priming coats applied by others, shall be

E.Remove all foreign matter from steel and iron. Clean and sand smooth, all chipped or abrade

H.Where required by governing authorities, all wood finishes shall be fire_treated to authorities

1. All materials shall be mixed and applied in accordance with the manufacturer's recommendations.

noted otherwise. All coats of paint are in addition to shop coat or sealer.

3.A minimum of three (3) coats of paint or varnish are to be applied to each surface except where

5. Finish on all interior of wood trim shall be as specified under "Interior Wood Trim", and where

6.Use only high performance paint, zero to low VOC compliant with AQMD requirements by region,

Any projections of equipment beyond the top of the roof parapet shall be painted same color.

8.All painting shall be done in a first_class manner, and proper number of coats applied as per this

9.Do not apply during foggy or rainy weather, when surface is damp or when temperature is likely to drop below 50oF. Avoid painting surfaces exposed to hot sun.

2.Apply three (3) coats DEFTHANE, Polyurethane Clear Stain, and sand smooth between each coat.

Brush apply one (1) coat ZENITH Interior Wiping Oil Stain, or as specified in Color/Material

Apply one (1) coat EZ-PRIME Premium, Exteior Wood Primer (EZPR00). Apply two (2) coats

NOTE: All exterior wood trim, siding and exposed plywood siding shall be back and edge primed

(Finish shall be a dull sheen). No gloss urethane or varnish will be acceptable.

2.Apply two (2) coats SPARTAWALL, Interior Semi-Gloss paint (SWLL50), see schedule for type.

10. Properly prepare surface to receive paint per manufacturer's recommendations.

1. Apply one (1) coat ULTRA-GRIP Series Premium, Multi Purpose Primer (UGPR00).

Schedule. Apply urethane where called for on Color/Material Schedule.

SPARTASHIELD, Exterior Semi-Gloss Paint (SSHL50), Color as shown on plan.

1. Apply one (1) coat BLOC-RUST Premium, Rust Preventative Metal Primer (BRPR00-1 Series)

2.Apply two (2) coats SPARTASHIELD. Exterior Semi-Gloss Paint (SSHL50), see schedule for type.

2. Apply one (1) coat GALV-ALUM, (43-7) GALV-ALUM GAPROO Epoxy Galvanized/ Aluminum Metal

2.Apply two (2) coats of oil base sealer to all aypsum board which receives laminated plastic of

When called for on the drawings and shown on Material Schedule of plans, paint masonry

and trash enclosure with one (1) roller or brush applied coat of SMOOTH BLOCFIL SELECT

CONCRETE BLOCK FILLER (SBSLOO) and two (2) coats of SPARTASHIELD Exteriror flat paint.

This requirement shall also include the interior of the trash enclosure. Where masonry is

specified to be sealed, sealer shall be as specified per Section 9.4.9 of this specification.

4.Apply two (2) coats SPARTASHIELD, Exterior Semi-Gloss Paint (SSHL50). See Elevations and

3. Apply two (2) coats SPARTASHIELD, Exterior Semi-Gloss Paint (SSHL50), see schedule for type.

NOTE: Backprime all edges, top, bottom and exterior faces and clear prime interior face.

1. Apply one (1) coat ZENITH Interior Wiping Oil Stain (if shown on plan).

required shall have a smooth satin finish as per sample on file at OWNER's office.

Zero—HAP, corrosion resistant, single component, water—based acrylic urethane paint or

Putty all screw and nail holes or other indentations with a knife after priming of first coat.

G.All surfaces shall be sanded between coats, except re_sawn or textured wood.

2.All surfaces to be dry, free of dust, wax, oil, or other foreign materials.

Upon failure to so report, painting contractor shall make good all defects and damages

design is based or the products of a manufacturer of equal quality from the manufacturers

specified paint brand in the same manner as outlined above for standard colors.

performed. All surfaces not to be painted or stained shall be free from drips or over_spray.

(where required) of masonry. Includes furnishing and installation of vinyl wall coverings.

site accessories, trash enclosure gates, exposed piping, exposed conduits, etc., and sealing

9.4.1<u>SCOPE</u>

9.4.2<u>SAMPLES</u>

9.4.3<u>STORAGE</u>

1. Apply one (1) coat VINYLASTIC Select, Zero VOC Interior Wall Sealer (VNSLOO Series). 2.Apply two (2) coats SPARTAWALL, Interior Flat Paint (SWLL10). Use stipple finish on all painted avosum board surfaces. See Schedule on plans for color.

3. Apply one (1) coat BLOC-RUST Premium, Rust Preventative Metal Primer (BRPR00)

1. Apply SUPREME CHEMICAL, METAL CLEAN AND ETCH (ME 01) Pre-treatment.

2.Apply one (1) coat GALV-ALUM Premium, Non Ferrous Metal Primer (GAPR00).

L. All wood and metal door frames, shall be painted or stained to match adjacent door face or as

specified on the Door and Window Schedules. See painting specifications for type and number of coats. M.Exterior Stucco or EIFS:

1. Apply two (2) coats SPARTASHIELD, 100% Acrylic Exterior Semi-Gloss Paint (SSHL50).

A. Work shall be performed by skilled mechanics.

B.Finished surfaces shall be free from blemishes. C.Where any defective surfaces occur, recondition the area until a proper finish is obtained and is approved by OWNER. No additional compensation shall be granted for the correction of unsatisfactory work.

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1230 Spo

DATE: 06/10/16 DRAWN: kk/js CHECKED:

Permit Set

SPECIFICATIONS

SP.4

See interior and exterior elevations and Color/Material Schedule for materials and locations, as scheduled on the plans. NOTE: All hardware shall be removed prior to any painting and reinstalled after painting is complete.

9.4.11 VINYL WALL COVERING (If applicable) A.Vinyl Wall Coverings: Where shown on plans, furnish and install vinyl wall covering of the type and color shown on Color/Material Schedule.

B.Adhesive: Use adhesive recommended by vinyl wall covering manufacturer. C.Installation 1. Determine that all surfaces to receive vinyl wall coverings are sound, dry, clean and free from

defects which could affect quality of finished work. 2. Wall covering to be installed so all seams match and bottom horizontal edge occurs under wood trim or chair rail.

3.Mix paste thoroughly and apply to back of material with roller or brush in a thin even coat. 4.Smooth fabric to hanging surface with stiff bristled sweep brush or a flexible broad knife to eliminate air bubbles and insure adhesion.

SECTION 9.5 TILE WORK

9.5.1<u>SCOPE</u>

and color of tile.

Includes all labor, material and equipment required to furnish and install all quarry tile, tile B.Trim where detailed or required, to match panels. pavers, glazed ceramic tile and other tiled surfaces. Refer to additional scope requirements in C.Adhesive as recommended by manufacturer. section 7.8 for Malls, Food Courts, Schools and similar situations. 9.5.2MATERIALS

I.Quarry tile and tile pavers is not to exceed moisture absorption limits of Federal Specification #SS_T_308b. Moisture absorption determination by ASTM C_67 absorption test. 2. Upon final completion of job, tile contractor shall provide OWNER with 50 additional pieces of each tile used on the floors and walls. Cartons shall be sealed and labeled, indicatina make

A.Quarry Floor and Base Tile: Tile shall be $6" \times 6" \times 1/2"$ size—square edge, with 6" high bullnose top and 3/8" cove at base tile. Tile shall have an abrasive/slip resistant finish in all traffic areas. All proper trim and corner pieces shall be used. All materials (floor, base and trim) to be manufactured by one of the following manufacturers <u>only</u>: I.Emser Tile — "E—Quarry

3.Dal Tile Q-41

B.Decorative Floor Tile and Base: Tile shall be as indicated on drawings, see Material Schedule , with 6" high bullnose top and 3/8" cove at base tile (sanitary cove base). All proper trim and corner pieces shall be used. All materials (floor, base and trim) shall be of the same manufacture and meet a minimum coefficient of friction of .06%.

C.Glazed Ceramic Tile (Wall tile): Ceramic tile shall be fully glazed wall tile. All proper trim and corner pieces shall be used. Size, color and manufacture as indicated on drawings, see Material Schedule. All ceramic tile trim pieces, bull nose and cove pieces, shall be of the same nominal dimension as the tile to be trimmed.

D.Adhesives: 1.Ceramic Tiles: Tile_Mate Thin_Bed Mortar, TCA formula #763, as manufactured by the Upco Company, Cleveland, Ohio.

2.Quarry Tile and Pavers: Tile_Mate Thin_Bed Mortar, TCA formula #759, as manufactured by the Upco Company, Cleveland, Ohio. E. Grout:

1. Quarry tile and tile pavers to be grouted with quarry type (wet) sanded grout. 2.Ceramic tile to be grouted with ceramic grade, non_sanded (dry) grout.

3.All tile grout shall be the color as noted on the Color/Material Schedule. Grout coloring shall be manufactured by one of the following: a.Custom Color Grout

b. UPCO/Emhart Corporation . Latacrete

F. Cleaning:

Before acceptance of building by OWNER, all quarry tile floors <u>must</u> be thoroughly cleaned with acid wash, sealed with "Aqua Mix Penetrating Sealer" as distributed by Aqua Mix Inc. 9419 Ann Street, Santa Fe Springs, CA. 90670— Phone # 1—800—366—6877. NOTE: This <u>must</u> be done prior to the final inspection. Floor sealer shall be applied and A.Refer to Plans Finish Schedule for type and color. immediately wiped dry. <u>Do not allow surplus sealer to remain on tile.</u>

9.5.3INSTALLATION

1. Quarry Tile and Decorative Tile: Install using thinset method over concrete slab. Quarry Tile base at walk-in boxes is to be installed with epoxy mortar. NOTE: At tile floors in kitchen areas: Serv. Area, Prep. Area, Dry Storage, Scullery and walk—in shall have abrasive slip resistant finish in all traffic areas.

2.Ceramic wall Tile: Install using a thinset method over water_resistant gypsum board. 3.All tile shall be fully bedded in adhesive. Any floor or wall tile, with hollows, shall be replaced with full bed setting.

4.All internal and external corners of quarry tile base, and/or ceramic base and wall tile, shall be installed using factory formed internal and external corners. 5.All boxed tile shall be thoroughly mixed before installing to attain random color blend from the

different manufacturer's runs. 6.Ceramic wall tile shall be installed after the quarry tile cove base and shall be laid out in such of manner that the top and bottom tiles shall be scribed to follow any variation in the

ceiling or floor, respectively. Quarry base tile SHALL NOT be installed over ceramic wall 7.All inside corners on ceramic tile walls will be sealed by a light, neatly applied, bead of clear silicone caulking. The silicone shall be installed by the tile contractor in a professional and workmanlike manner.

8. Where one side of any tile exceeds 18", installation is required to meet ANSI 118.15 for medium thinset. Such as MAPAI Ultraflex LFT or equal.

1. After grouting, all floor tile shall be cleaned. Cover tile with kraft paper until final clean_up o building interior. 2. Grouting to take place not less than 24 hours after tile is set.

B.All installation to be in compliance with the Tile Council of America's "Handbook for Ceramic Tile Installation". current edition. No tile shall be placed directly over plywood -(this superscedes any plan details shown to the contrary).

C.All buckets used during the tile installation shall be dumped and/or cleaned outside of the building Do not pour anything down the drains in the building.

SECTION 9.6 ACOUSTICAL TILE

9.6.1<u>SCOPE</u>

Includes all labor, material and equipment required to furnish and install acoustical tile ceilings.

Kitchen Area: As noted on Finish Plan. Dining Area: As noted on Finish Plan.

9.6.3 SUSPENDED CEILING SYSTEM, MATERIALS

A.Suspension system shall be exposed tee, double web design. Kitchen area exposed grid and trim shall be factory finished to satin white color. Kitchen area to also be 1-hour fire rated product. Dining area exposed grid and trim shall be factory finished Silver Satin. Select one of the following manufacturers:

I.Chicago Metallic Corporation, #1250 Fire Rated in Kitchen.

ICBO #1905 LARR #23256 Fire Rating #24299 2.USG Donn . DX / DXL System in Kitchen

ICBO #2244 LARR #22179, Class A Fire Rating #23541 3. Armstrong Grid - Prelude XL in Kitchen

LARR #25032 Class A

ICBO #5173

Doors, panels, pilasters, and stiles shall be constructed stainless steel. Doors to be pre-notched and recessed to accommodate concealed controlled gravity type hinges

ends. Same finish. Head rails shall be securely fastened at walls.

10.2.4 INSTALLATION All Installation shall comply with ADA and Calif. Title 24 in California. Installation to be per plans and details and of first class workmanship. All panels, pilasters, screens, and stiles shall be installed as close as possible to the adjacent surface. All urinal screens to be made at 4'6" high. Screens to then be mounted 12" off of the finish floor giving an overall height of 5' 6" Screens are to extend out from the wall surface as noted on plans. Field measure for all partitions. No shop drawings are required.

Wire hangers shall be 12 gauge as required by local building code spaced at 48" O.C. each way. SECTION 10.3 BICYCLE RACK

maximum deflection of 1/360 of the span.

satisfaction of the Local Health Department.

condition and to the satisfaction of OWNER.

FIBERGLASS REINFORCED POLYESTER PANELS

manufacturers (If all new. For remodels, match existing):

backs of panels and wall are free from dirt, dust and grease.

easily. No horizontal joints are permitted at walls.

F.Remove excess adhesive with mineral spirits.

C.Do not use butt joints. Use mouldings fitted to allow for expansion.

G.At time of final inspection, <u>all</u> F.R.P. panels shall be thoroughly cleaned.

C.Corner Guards to be "Marlite" #m961, 1-1/2" x 1_1/2" x 48" White #100.

B.Trim where detailed or required, aluminum top, bottom and all vertical joints

backs of and wall are free from dirt, dust and grease.

C.Do not use butt joints. Use moulding, fitted to allow for expansion.

D.Apply thin coating of adhesive to panel back. Cover complete back with adhesive.

G.In required greas, fill the channels of mouldings with a continuous bead of caulking.

easily. No horizontal joints are permitted at walls.

Use recommended Marlite adhesive spreader.

or joints are exposed.

Remove excess adhesive with mineral spirits.

J. At time of final inspection, all Marlite shall be clean.

SECTION 10.2TOILET ROOM PARTITIONS - (When called for on plans)

ends. See plans for sizes and dimensions.

gripping firmly.

DIVISION-10

SECTION 10.1 GENERAL

and fittings.

10.2.3 CONSTRUCTION

K.All panels must match in color.

100262-M451-Inside, 100263-M460, 100264-M465, 100265-M470

Furnish and install vinyl cove base at tile flooring where shown on the drawings

A.Contractor to furnish and install Corner Guards as shown on plans.

the wall and the Corner Guard. Install with adhesive

Select one of the following manufacturers:

B.Adhesive as recommended by manufacturer.

shall be installed level and true.

accessories, and corner guards.

1.Kemlite glasbord

2.Marlite Corporation

9.7.4CORNER GUARDS

9.8.2MATERIALS

3.Flexco Company

4.Kentile Floor

1. Armstrong Flooring

and exterior corners.

SECTION 9.9 MARLITE

accessories

D.Marlite Adhesive (c_551)

C.Metal Clips

SECTION 9.8 VINYL COVE BASE

4.Lasco Board

3.Glasteel

A.Scribe all tile to walls, soffits and as detailed. When possible, edge tile to be one half or greater

Suspension system and acoustical tile in kitchen areas shall conform to and be installed to the.

A.Determine that surfaces to which paneling are to be applied are thoroughly dry, straight, and

B.Cut panels face up, bevel back edges of panels to permit them to fit and move in mouldings

D.Apply thin coating of adhesive to panel back. Spread with comb spreader to create proper

E.After panels are placed, knead and press them to wall or ceiling to make sure adhesive is gripping

B.Thoroughly clean corner of any dirt, dust, grease or oil. Corners must be dry. Apply Corner

A.Base shall be 4" high with cove base, .080" gauge. See Color/Material Schedule for base colo

Base and adhesive shall be applied per manufacturer's written instructions, use molded interior

Includes all labor, material and equipment required to furnish and install all Marlite paneling and

A.Determine that surfaces to which Marlite panels are to be applied are thoroughly dry, straight, and

B.Cut Marlite face up. Bevel back edges of panels to permit them to fit and move in mouldings

E. Wall surface must be dry, solid, smooth, rigid and non porous. On solid walls, the entire back

F.At all edges and joints of panels, appropriate Marlite mouldings should be used so that no edges

H.After panels are placed, knead and press them to wall or ceiling to make sure adhesive in

10.1.1 The "General Requirements" of these specifications are hereby made a part of this Division.

Furnish and install toilet room partitions, and screens including all doors, necessary hardware,

A. Toilet Room S/S Partitions by Bradley. For Bradley pre-negotiated strategic pricing and direct

B. Toilet partitions and screen faces and edges shall be stainless steel and have a spiral design

C. All hardware shall be heavy nonferrous chrome_plated castings which are corrosion resistant

applicable hardware must comply with ADA and Calif. Title 24 requirements for the disabled.

D. Urinal and/or privacy screens shall have floor to ceiling pilasters, securely anchored at both

purchase program contact: Tom Simanek - 262.532.6089: fax # 262.532.6055 or email at:

scratched finish. All supporting stiles shall be floor to ceiling, securely anchored at both

and self lubricating. Fastenings shall be by means of thru_bolts with theft_proof heads. All

surface of the panel must have combed_on application of Marlite Brand C_375 adhesive.

SPECIALTIES

Guard as per manufacturer's instructions. Silicon caulk with clear silicon, all joints between

contact ridges in the adhesive. Entire back of panel must be completely coated with

See plans for special edge conditions; edge trim to match exposed grid system.

10.3.1 General Contractor is to provide (2) each bollard style bike posts — Belson Outdoor Model# BOL450-2R-SF-R Red Finish or site specific color. G.C. to red head 4 Bolt base flange t concrete walk as shown on plans. If plans reflect a Bike Rack to match shopping center, G.C. is to provide that rack instead.

B.Grid system and tile to be installed per manufacturer's instructions. Grid system, wires and tiles SECTION 10.4 INSECT CONTROL

Provide and install "Borid" crystals as indicated in this specifications. Clean any soiled tiles and/or exposed grid after installation is complete. Leave installation in new.

> "Borid" with Boric Acid, manufactured by R_Value Inc., Smyrna, GA., may be purchased from Dewy Pest Control, 3711 Beverly Blvd., Los Angeles, CA 90004, (213) 660_6804.

Includes all labor, material and equipment required to furnish and install all paneling and A. Read directions on container before opening. "Shake well before opening." B. Apply crystals into cavity of all interior and exterior stud/bulkhead walls, do not let material get wet. Powder shall saturate sill plate with a minimum 1/8" thick material coverage. A.Fiberglass Reinforced Polyester (F.R.P.) panels shall be 3/32" thick, pebble finish. See plans for

SECTION 10.5 FLAGPOLE — (When called for on plans) color; Use manufacturer's matching color trim. Contractor shall select one of the following

> and install flagpole and flags as specified below when required. Locate as shown on 10.5.2 MATERIAL A. Flagpole shall be tapered seamless aluminum tubing. Wall thickness shall vary per length of

pole. 35' pole shall be min. .156" wall thickness with 6" butt. 50' & 60' poles shall be min. .188" wall bickness, with 8" butt on 50' pole and 10" butt on 60' pole. Finish shall be deep luster fine grain sheen. B. Halyards: 35' pole shall have Concord Sentry concealed halyard system. Halyard to have one set of

#10 (5/16") white water roof polypropylene equipped with (4) chrome swivel snaps to secure the flags, one, beaded nylog retainer, and one beaded nylon retainer ring. 50' and 60' pole shall have Concord concealed halyard system. Halyard and flag arrangement shall be 1/8" stagless steel aircraft cable, with attachment ends crimped over 1/8" steel yokes and joined by stainless steel Quick_links. Halyard shall be two_piece, joined by a stainless steel swivel at midpoint; flag arrangement shall be sized to accommodate the appropriate size and old shall be complete with two chrome swivel_snaps, neoprene coated counterweight and be ded wlon retainer ring.

C. Truck for 35' pole shall be a revolving non jouling truck equipped with two automotive_type sealed bearings, with one 2 1/2" plated steel sheave. Truck for 50' and 60' poles shall be cast aluminum, internal halyard type, revolving non_fouling, equipped with two automotive_type

sealed bearings, with one 2_1/2" plated steel sheave

D. Ball shall be constructed of #14 GA aluminum wit gold anodized finish.

E. Cleats: Cleat on 35' pole shall be internally making am_action cleat __am_action cleat with integral sheave, 50' and 60' poles shall have a Winch Stainless steer, text drive; mounted on a rotatable plate inside the shaft. Winch shall be accessible for the drive; and maintenance only through a single reinforced access opening, which shall be covered by a removable door finished to match shaft, containing a six tumbler cylinder lock. Winds all be gearless, operable only

by a removable crank handle through the access opening, and shall lock in any position upon F. Furnish spun aluminum flash collar, the diameter of the collar, shall be at least 1" larger than the diameter of the foundation sleeve. Finish same as pole.

G. Flags shall be furnished by OWNER: a.American Flags. 35' pole furnish (2) 6' x 10' flags 50' and 60' poles furnish (2) 10' x 15' flags

b.C.K.E. Flags. 35' pole furnish (2) 5' X 8' flags 50' & 60' poles furnish (2) 8' X 12' flags

A. Contractor shall install pole using properly sized foundation tube, tube support plate and grounding spike. Verify sizes based on pole manufacturers specification for pole height and

SECTION 10.6 CLEARANCE ARM

Furnish and install clearance arm assembly. See site plan for location. (Where Sign Co. has permitted large sian preview board combo clearance arm. This item can be removed from t G.C. scope of work). When bidding project clarify with Project Manager if needed or not.

E.All materials to be products of Marlite Division of Masonite Corporation, and all trims to fit 1/4" 10.6.2 MATERIAL A. Contractor shall include in his bid to furnish and install the clearance arm assembly. Clearance arm shall be purchased from -Uni-Structures, Marrietta Georgia (800) 386-9864. Purchase with Red pole and Yellow swing arm.

10.6.3 INSTALLATION

A. Clearance arm and pipe column support to be set plumb. B. Before setting total assembly, verify building soffit clearance and set swing bar height

C. Contractor shall have height clearance dimension placed on swing bar reflecting 3" LESS than actual clearance at drive thru's lowest height soffit, canopy or trellis. D. Contractor shall replace default height on bar with similar vinyl numbers when required.

SECTION 10.7 KNOX BOX (Where Required by Fire Dept)

B. Freight charges, if necessary, shall be paid by contractor.

10.7.1 <u>SCOPE</u> Furnish and install Knox Box where shown on plans. Knox Box is available from The Knox Company: Newport Beach, CA: 1-800-552-5669.

Model #3200 recessed mounted. Color to be aluminum.

10.8.1 <u>SCOPE</u>

SECTION 10.8 SAFE

General Contractor to install OWNER provided safe as indicated on the drawings. Safe to be installed bolted to floor. Cove base tile to be installed at exposed sides. All gaps to adjacent walls and equipment to be sealed so as to eliminate any areas of food, dirt or dust gathering in spaces that cannot be cleaned.

SECTION 10.9 DRIME—THRU WINDOW SECURITY GRILL

10.9.1 Where a drive—tran pict up on cash window occurs, the General Contractor is to purchase from CKE/ HED Parts bepartment accurity grill and two keyed alike pad locks per each grill. General Contractor is to provide 44.41 eye bolts and install aligned with security grill on interior walls on each side of the window. Grill bars are to slip into eye bolts on one side and be locked with pad locks on other.

SECTION 10.10 RESTROOM ACCESSORIES

Provide and install restroom accessories as noted on the drawings. All applicable hardware noted must be purchased and installed in compliance with ADA and Calif. Title 24 requirements

Soap Dispensers and Toilet Paper dispensers are provided by OWNER Operations with the small wares delivery near the end of project or provided by sanitary vendor. If Health dept. inspections occur before this delivery. GC may be required to purchase temporary dispensers as needed. Install by GC. Baby Changing Tables provided by OWNER and installed by GC.

SECTION 10.11 INTERIOR SIGNAGE

Install owner provided interior sign package to include the following: Owner will provide the interior sign package through HED. This will include: • (2) "Please Wash Your Hands" sign — (1) each restroom

 Dining Occupancy Sign and vinyl number sets. • Vinyl / plastic Handicapped symbol for front door. • Restroom doors and wall Braille Handicapped required signage.

SECTION 10.12 DELIVERY DOOR ALARM & DOOR SCOPE

General Contractor to provide and install the Monitor 4000 delivery door alarm and the door scopes for the delivery door and office door. Contact Bob Barr at Security Products Inc. (800) 452-5276.

EOUIPMENT

DIVISION 11

11.1.1 The "General Requirements" of these specifications are hereby made a part of this Division. of Equipment.

11.1.3 The General Contractor is responsible for coordinating, scheduling installation and the hook_up of all OWNER supplied equipment. See Sections 1.1.16 and 1.6 of this Specification. U.N.O. on plans or bid addendum. (OWNER will provide GC with a "Vendor Contact List" at start of project to coordinate vendors.)

SECTION 11.2 STAINLESS STEEL KITCHEN EQUIPMENT

11.2.1 <u>SCOPE</u>

KEC (Kitchen Equipment Vendor) to Fabricate, deliver & Install stainless steel kitchen equipment as shown on the drawings and as specified below. Installation will be determined by quote. Installation shall include all stainless steel equipment as well as dry storage and walk in storage shelving assembly and installation of hoods provided by owner — (coordinated with GC & mechanical contractor). GC is responsible for coordinating installation as requiredregardless of installation decision. Custom Fabricated stainless steel equipment is to be manufactured to meet all required NSF

standards and local Health Department requirements as well as ETL or UL requirements and abeling for all pre-wired equipment. 11.2.2 <u>MATERIALS</u>

All materials shall be of the gauge and finish as specified and to be new at the time of manufacture. 1.2.3 EQUIPMENT

Item #1 & 2 MAIN COOK COUNTER

Fabricate to size and shape as shown on Sheet A2.3 and K1.1 Item #1 & 2 MAIN COOK COUNTER

Fabricate to size and shape as shown on Sheet A2.3 and K1.1

Top to be formed of 16 gauge #4 stainless steel with all joints and corners welded, ground smooth and polished. Exposed body shall be 18 gauge #4 stainless steel. Unexposed body shall be 18 gauge galvanized. Shelves under shall be 18 gauge #4 stainless steel. Also, provide and install items as follows:

1 - 1" dia 1/4 turn ball valve drains on food warmer unit.

2 - Heat Blankets (Hatco) with preset temp for top to be 110 degrees with Pilot Light "On-Off" switches. 1 — Heating Element at & Onion ring warmer.

Hatco 120V 500W with Pilot Light "On- Off" switches.

Owner to provide (1) Wells Auto—Fill warmer and (1) BKI Sandwich holding Unit Fixture is to have built in electrical sub-panel for all electrical items with single conduit up s/s chase to ceiling for single point Electrical connection—(excluding CRT I.G. receptacles), and have acceptable U.L. or ETL Approvals. Fixture to have all applicable items provided above pre-plumbed with Indirect and/or condensate waste installed to floor sink location.

Item # 1b SANDWICH WARMER TOPPER UNIT

Top to be formed of 16 gauge #4 stainless steel to fit snug on Sandwich warmer top. All edges shall be filed smooth and all corners rounded. Provide pins for day dot holders to secure to. Fabricate (2) day dot holders with holes to fit over pins.

Item #4 FRY DUMP HEATING ELEMENT HOOD

Fabricate as shown on A2.3 and K1.1

Hood to be fabricated of 18 gauge #4 stainless steel. Bottom edges to be hemmed. Provide heat shield on face of reach—in side of Heat lamp hood. As part of this item, fabricate (2) fry bag holders. Provide (2) Hatco heater and light assembly 120V 1250 W; and (4) 120V -40W — Teflon coated appliance bulbs. Provide pilot light — Alco elect #B1M-4C-125V — 1/3 W - and Selecta switch #SS 203 P-BG - 20A - 125 VAC for light bulbs.

Item #5A BACK COOK COUNTER- Where Green Burrito Occurs (See Plans)

Fabricate as shown on A2.3 and K1.1

. Two pieces — shelf / electrical section and work counter section. Fabricate stainless steel counter of 16 gauge #4 stainless steel top, 1-5/8" diameter stainless steel tubing legs and stainless steel adjustable bullet feet. Cut out top and fit with foo warmer. Also provide and install 1" diameter 1/4 turn ball valve drain on food warmer unit.

Depending on floor plan, some back counter fixtures are to have built in electrical sub-panel connection—(excluding CRT I.G. receptacles), and have acceptable U.L. or ETL Approvals. Fixture to have all applicable items provided above pre-plumbed with Indirect and/or condensate waste installed to floor sink location.

Fabricate 12" x 4" deep S/S chase/channel with conduit. Secure to Freezer wall. Allow room for gas line drop to Griddle.

Item #5B BACK COOK AREA- Without Green Burrito-(See Plans) Build similar to 5A with single steamer and open space below table.

Item #6 POT SINK/VEGETABLE SINK Fabricate sinks and drain board as shown on A2.3 and K1.1

Drain boards and sinks shall be formed of 16 gauge #4 stainless steel with all joints and corners welded, ground smooth and polished. Support drain board with 1-5/8" round tubing with stainless steel adjustable bullet feet and stainless steel circular aussets welded to the underside of the drain board. Shelves under to be 16 gauge #4 stainless steel notched around and welded to the leas. Provide 8" back splash. Provide 18" high x 1" splash between vegetable sink and pot sinks. (3) Faucets, (1) Pre-Rinse and (3) Lever drain valves to be provided in owner provided Zurn Plumbing package and installed on site by plumber. See Spec Section 15.3.18.A-1.

Item #9 DRIVE THRU DRINK SERVICE COUNTER CABINET Fabricate as shown on A2.3 and K1.1

Form top of 16 gauge #4 stainless steel with adequate support sections for dispenser with ice machine. Body to be 18 gauge #4 stainless steel. Fabricate top as shown. Unit to set on 6" s/s leas. Build in cup dispenser bracket and condiment storage rack area per plans. Provide cup dispensers per spec.

Item #12 SELF SERVE DRINK STATION CABINET Fabricate as shown on A2.3 and K1.1

Form top and trough of 16 gauge #4 stainless steel. Body to be 18 gauge #4 stainless steel. Fabricate top as shown. Trough to be fully insulated and fitted with the two ice catch units as shown. Under each ice catch provide 1" x 4" threaded drain (Fisher #6442_2300 or equal). Also provide stainless steel anti_splash between catches. Block out section for trash | 2.Plastic pull covers for remote manual pull stations—(unless pulls are flush). as shown. Front radius edge to have high polished radius edges. Unit to set on metal channel base. Provide hat section support as needed for dispenser / ice machine support. Cove tile base finish by GC.

Item #13 DRIVE-THRU WINDOW STAINLESS STEEL TOP

Fabricate stainless steel shelves of 16 gauge #4 stainless steel as shown on detail 16/A3.3 Item #17 MISC STAINLESS STEEL ITEMS

Form dividers of 18 gauge #4 stainless steel. Provide key tabs in bottom to fit slots in perforated false bottom at fry dump dividers. Make sure all edges are filed smooth and all corners rounded on all dividers. Fabricate (2) syrup holders shelves.

Item #23 STAINLESS STEEL JAMBS Fabricate of 20 gauge #4 stainless steel as detailed on 10/A3.5

Item # 101 / 18 STAINLESS STEEL ORDER COUNTER TOP, APRON and BASES Fabricate of 20 gauge #4 stainless steel as detailed on 8/A3.4

Provide stainless steel ribbed apron as shown. Front face to be complete and finished as shown. Front radius edge of order counter top to have high polished radius edges. Provide front finished laminate and trim. Finish back and underside of top to comply with NSF requirements. Provide proper trim for field install around safe once safe is installed. Unit to be assembled in shop complete — face, top and apron and back.

11.2.4 <u>DROP_SHIP_ITEMS</u>

The stainless steel fabricator, when accepting drop shipped merchandise, shall send delivery receipts along with the receiving copy of Owners purchase order to HED with notations denoting any missing parts also; he shall accept responsibility of such merchandise and will be solely responsible for initiating and processing all freight claims due to damage in shipping, whether damage is visible or concealed at time of delivery, or whether damage is to interior workings

SECTION 11.3 WALK_IN COOLER & FREEZER

A.Owner's vendor to Provide and install prefabricated walk_in cooler and freezer. Units shall be per the dimensions shown on sheet A1.0 of plans. Unit must meet all applicable NSF requirements and bear seal. Unit must also meet all UL / ETL requirements. Walk_in shall be purchased by Owner. GC to coordinate installation.

A.Interior Finish and non—cook area Exteriors: 26 ga. Stucco embossed galvanized steel.

B.Exterior Finish at cook areas: .040 Stucco embossed Aluminum.

C.Panel Construction: Shall be 4" wide x 8'-8" and consist of exterior and interior metal pans uniformity. Insulation must be "foamed_in_place", rigid, fire_retardant urethane to bind to exterior and interior formed pans.

Panels will have high—density urethane foam tongue and groove rails that mate in air-tight joint with double P.V.C. closed cell gasket. Insulation: Shall be "foamed-in-place" urethane. Shall be Class 1 and will have a 2.2 lb density and a maximum flame spread of 25, U.L. approved conforming to A.S.T.M. E-84 Specifications, and shall remain stable at temperatures of up to 200 deg. F., and shall have a K Factory (thermal conductivity) not to exceed .125 at 20 F mean temp. HCFC to meet

Sectional Fasteners: All wall, floor, and ceiling section joints shall be fastened with stee

cam-action fasteners. Each device shall consist of a precisely located cam and a steel

encased pin. All locks shall be actuated from inside of the walk—in with a standard

finish of floor to be 26 gauge galvanized steel. A interior ramp to be provided with same

aluminum wearing surface. Provide removable threshold plate to accommodate guarry tile.

hex-type allen wrench. A wrench will be furnished with each walk-in delivered. All socket ports are to be finished off with snap-in rosettes Freezer Floor: Shall be 4" high—density construction with the wearing surface .080 Aluminum over, ½" plywood and shall have non-skid strips in aisle- (4" wide traction tape at 6" apart). Aluminum wear surface to have integral radius at walls to meet NSF Standards. Underside

E.Walk—in Doors: Size 30" X 78" flush fitting self—closing door. Door sizes shall account for ½ auarry tile floor. The door shall have a Kason #1229 polished, non-locking, pull handle. The hinges shall be Kason #1248 spring loaded, adjustable with a Kason #1095 door closer-(snubber). Door gasket to be magnetic, bulb-type, easily removable and shall be mounted at top and two sides of door. The bottom edge of each door shall have a double blade neoprene wiper gasket to be adjustable without the removal of the door. All gaskets to be resistant to fats, water, oil and sunlight and shall be easily replaceable. The door shall have 4" "foamed-in-place" urethane insulation as specified above. Freezer door to have heater cables (4) sides of the opening and to be U.L. approved. Heater wires shall have removable covers for easy replacement. J-box for heater wires to be located on exterior of door section.

Reach—in Doors: Cooler and Freezer to each have one flush fitting solid door, 24" X 65", 4. "foamed—in—place" urethane insulation. Each door to be self—closing with Kason #1248 spring loaded, adjustable hinges with magnetic gasket 4 sides. Kason #907 front mount vertical handle. Doors to be 10" A.F.F. Freezer reach—in to have heater cables on 4 sides of opening and are to be U.L. approved with easy access as noted above. Cooler reach in door exterior finish to be .040 stucco embossed aluminum with interior of door to be 26 ga. Stucco embossed galvanized. Freezer reach in door exterior and interior finish to be 26 ga. Stucco

G.Accessories: (4) Low Temp PL Lamps and 'jelly jar' vapor proof fixtures for field install by EC Provide (2) 2" dial thermometers, one Kason 1832 heated air vent in freezer door frame. (2) 2" 26 ga. Stucco galv. Vertical enclosures Cool Curtain Clear VU model #SS3178 Plastic strip curtain is to be provided for the cooler walk-in door only.. Caulking to be provided to seal wall panels to floor. Silicone pointing to be provided for interior and exposed exterior joints.

SECTION 11.4 MECHANICAL REFRIGERATION

connection with the installation of a complete refrigeration system for the Foodservice equipment as indicated on K2.0 of drawings. B.The compressors shall be a complete factory assembled, air_cooled, UL approved refrigeration

C.This system shall be operational in outside ambient conditions, ranging from _20F to 110F.

SECTION 11.5 EXHAUST HOODS

Exhaust hoods furnished by Owner and installed by Contractor. Specifications and requirements to comply with local codes and fire department requirements. See "M" Drawings.

SECTION 11.6 FIRE PROTECTION SYSTEM

Owner's vendor to provide and install three liquid fire protection systems providing duct, plenum and full cooking appliance coverage per U.L. 300. GC to coordinate install. See sheet M1.0 of

11.6.2 MATERIAL

A.Fire Suppression Agent Ansulex R 102 liquid B.Gas Valves _ Ansul approved mechanical valves - ship to GC early for gas line installation. C.Fusible Links Ansul approved 5000 quartz and 3600 fusible links

11.5.2 MATERIAL A. See notes and schedule on sheet M2.0

11.6.3 EQUIPMENT

A.Furnish and install (3) ANSUL/R102 three gallon liquid agent systems providing duct, plenum and full cooking appliance coverage B.The system protecting the Frying Hood, shall be provided with 1 _ 1/2" mechanical gas valve. Al

exposed piping and nozzles to be chrome plated and/or provide with tight fitting chrome C.The system protecting the Griddle Hood, shall be provided with a 1" mechanical gas valve. D. The system protecting the Broiler Hood, shall be provided with a 3/4" mechanical gas valve. E.As part of this contract, the fire protection company shall provide and install the following: 1. Fire extinguishers (as shown on sheet K1.0) unless directed otherwise by local fire authority.

chute. Provide stainless steel ribbed apron as shown. Front face to be complete and finished 3.2" x 5" Red labels with 1" white engraved lettering designating "Griddle", "Frver", and "Broiler". These shall be permanently placed above each pull station.

11.6.4 INSTALLATION

A.Installation must comply with National Fire Protection Association (N.F.P.A.) current edition of B.The fire protection automan and tank shall be spaced 1" away from the hood surfaces.

C.All exposed piping and nozzles shall be chrome plated and/or provided with tight fitting chrome

A.The fire protection contractor shall prepare drawings and submit them to the jurisdictional authority for approval and permit.

B.After installation, the system shall be tested to the satisfaction of the proper authority and Owners SECTION 11.7 SEATING

11.7.1 SCOPE

Owner's vendor to provide and install the seating and the accompanying equipment as shown on the drawings and as specified below. Item numbers listed are related to unit "K1.0" schedule. Remodels may have a different Item number but will have the same description and specification. GC is to coordinate installation with vendor. Where LEED Project is designated on the plans. refer to DIVISION 0 Amendment for additional requirements to seating package.

A.Plastic laminate shall be .050 inches thick, "General Purpose Type". Color, texture and finish shall be as specified in the color/material schedule on the construction documents.

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SPECIFICATIONS

SP.5

Item #90 TRASH STAND Provide cabinet as shown on sheet K1.0

Fabricate stands of 3/4" high-density particle board. Exterior surfaces covered with laminate plastic as shown. Inside of stands to be covered with white melamine. Doors to be fabricated with 3/4" high density particle board core and 1/2" x 1/2" hardwood edge with all surfaces covered in laminate plastic and magnetic type latch inside—Epco #592 and KV#KV822 flush door pulls. Provide fiberglass top with depression and 10 ½" hole for top. Furnish trash cans w/ casters. Hinge to be piano-type, full-length. Provide angle, toe-kick shield, and casters

Item #91 CORE DRILLED TABLE BASES Provide and install as shown on plans

Brackets shall be built of $1_{1/2}$ " x $1_{1/2}$ " steel vertical tubing with $1_{1/2}$ " x 3" steel horizontal for model mounting as shown. Paint "Black" finish. Coordinate delivery with General

Item #92 <u>DINING ROOM TABLE BASES</u>.— (When loose tables are called for on plans)

Furnish and install table bases similar to Falcon Products # Series 200; #203_22 on Type A table #203_2230 on type B and C tables and #203_30 on type D. Finish to be black wrinkle. Bases to be attached to table tops with #14 screws. Provide Levelmatic #806 table glides on all table bases. Glide to be supplied with stainless steel cap and cup end 1" dia. short plastic cover in black as manufactured by Blake Inds.

Item #93 <u>DINING BOOTH TABLES</u>

Fabricate to size and shape shown on sheet K1.0 Fabricate tops of 1 1/8" 45# density particle board with laminate plastic field in color per finish schedule and with L/P backing sheet on bottom

Item #94 <u>DINING BOOTH</u> Fabricate to size and shape as shown on Sheet K1.0

Furnish formed fiberglass shell in color as specified with 1/2" high—density particle board boxed bases. Furnish upholstered back. Back pad to be constructed with 1/2" particle board base with 2_1/2" foam pad, density 1.85_2.05_ILD 44_50, covered with 85_15 staple cotton batting. Then the vinyl upholstery material as specified wrapped over cushion and stapled t bottom of particle board. Provide welting with matching upholstery along front and side edges and returned approx. 2" around the back. General contractor to install base tile per plans.

Item #95 DINING BOOTH BULKHEADS

Item #98 STAR TOPPERS (metal designed screens)

Fabricate bulkhead of 3/4" x 3-1/2" high-density particle boards studs. Cover with laminate plastic over high-density particle board as shown (item #95). General contractor to install | B.All hot and cold water systems with complete connections from the water meter to all plumbing base tile per plans if noted.

Fabricate and powder coat steel screens to mount to bulkhead walls and attach to ceiling. Silver powder coat. Design specific.

Item #100 QUE LINE RAIL

Fabricate of 1 ½" stainless steel tube with radius corner at top and mid span rail. Core drill at each end post.

The seating contractor, when accepting drop shipped merchandise, shall send delivery receipts along with the receiving copy of Owners purchase order to HED with notations denoting any missing parts also; he shall accept responsibility of such merchandise and will be solely responsible for initiating and processing all freight claims due to damage in shipping, whether damage is visible or concealed at time of delivery, or whether damage is to interior workings of equipment. The seating contractor will further have the responsibility of routing all warranty cards received with drop_shipped merchandise to the Owner's office with notations on or with

SECTION 11.9 WINDOW COVERINGS

Vendor to Furnish and install Roll-A-Shade window shading system on all windows noted on plans. Windows where sun is a problem (South and West facing) shall have movable shades. Windows where sun is not a problem (North and East facing) shall have fixed shades. GC to coordinate install. (See sheet K1.0)

11.9.2 MATERIAL A.Shade Fabric

1. Vinvl coated 500 denier fiberalass sunshade material. 2.It shall be flame retardant.

cards as to which unit card is pertaining to.

a.lt must meet the California flame test, title 19, section 1273.3 medium scale test for interior | 15.3.3 LOCATIONS

fabrics and the N.F.P.A. 701 flame test. B.Roller System

1. Shall be a Roll-A-Shade chain-operated roller system utilizing a bi-directional, wrap spring clutch. 2. The clutch shall be made of high strength, fiberglass—reinforced polyester and high carbon steel. The clutch must never require any adjustment either upon installation or afterwards.

Clutch may be mounted in either end of the roller tube. 3.Operating loop shall be #10 plastic bead chain with upper and lower stops. Color to be vanilla (or as shown on plans).

it's length, and shall have an adhesive strip for attaching the fabric.

5.End plua shall be a unit consisting of an outside sleeve and a center shaft and shall be made of high strength, fiberglass-reinforced polyester. The outside sleeve shall be free to rotate on the center shaft, providing the bearing surfaces on which the roller rides. 6.Bottom rail shall be extruded aluminum with spline channel for shade attachment. Finish to be

powder coated to specifications. Bottom rail shall have plastic end caps at each end. 7.Fascia mounting brackets shall support both the roller tube and the fascia panel. They must be capable of mounting inside, outside or to the ceiling, with the clutch on either the right or left hand side of the roller. All fascia brackets will be made of .060" steel and shall be powder coated to specification.

8.Fascia panel shall be installed to conceal the roller tube and mounting hardware, providing a clean finished look. Fascia shall hook onto the top of the bracket and snap in place. Fascia panel shall be made of .062" extruded aluminum and shall be powder coated to

11.9.3 <u>INSTALLATION</u>

A.Mount fascia bracket to window stops @ head & jamb.

B.Adjust shade to stop 1/4" above bottom stop. Set stop on chain accordingly. C.Adjust shade to stop in upper position at 15" down from head and set stop on chain.

SECTION 11.10 PLAYGROUND EQUIPMENT-(Where applicable)

A.Owner to Furnish and install all play equipment complete, including rubber matting as indicated on Playground vendor shop drawings. The P.M. shall provide these to these shop drawings to the G.C. to coordinate slab recess areas

B.G.C. to coordinate installations of Play apparatus and poured rubber matting. GC to furnish and install the flat rubber flooring in remainder of play room per plans.. C.Concrete or asphalt base, concrete curbs, steel fencing, gate, lighting, flooring, etc. shall be by

SECTION 11.11 OUTSIDE SEATING -(Where Applicable)

General Contractor.

A.Furnish and install outdoor seating- tables, bases and umbrellas as shown on plans. 1. Table Tops - Rubberized coated expanded metal tops welded to rubberized coated steel supports that bolt to steel frame.

2. Steel Frame _ Minimum 14 gauge 2" x 2" steel tube all joints soundly welded. Provide welded 12" x 12" top plate. All joints to be ground smooth. The framework to be finished with fused vinyl powders in Gloss Black. 3. Seats - Powder coated steel support chair with steel back. Seat to be solid color

surface of 3/16" fiberalass mounted to steel chair frame. Provide (4) 1/4 x 20 threaded tee_nuts for mounting to frame work.

4. Umbrellas — Color "Red" to match awning material unless noted otherwise.

11.11.2 INSTALLATION

Seating clusters shall be surface mounted using concealed bolt down fasteners as shown in the details. All units to be set level. GC to coordinate install with vendor.

SECTION 11.12 SALSA BAR (Where Applicable)

Colors, textures, and finishes shall be as specified on color and material schedule on construction documents.

Cabinet base to be manufactured of steel tube and galvanized metal. Area at bottom of

cabinet base to be open for mechanical ventilation. Exterior to be finished per plans. All construction to meet required NSF Standards. 11.12.4 STAINLESS STEEL PAN AND COLLAR

A.Fabricate top with opening to receive drop—in self—contained refrigeration pan provided by owner. B.Provide S/S trivet and cup and lid holders.

Sneeze guard to be built and installed on cabinet base as detailed on plans. Note: It is the responsibility of the vendor to properly engineer pipe frame superstructure to withstand the weight of itself and glass portions of canopy, both in shipping and when placed permanently Also note sneeze guard is to meet all current N.S.F. standards in construction and purpose.

MECHANICAL

DIVISION 15

SECTION 15.2 HEATING AND VENTILATION

15.1.1 The "General Requirements" of these specifications are hereby made a part of this Division

A.Furnish and install the complete Heating and Ventilation package as shown on Mechanical Drawings See M_drawings for specifications & details.

SECTION 15.3 PLUMBING

Work in this section shall include but not be limited to the following: A.All soil waste, vent and sanitary drainage outside and inside the building and to the sewer connection as indicated on the plans.

fixtures and equipment requiring water connections. These systems shall be complete with C.Gas piping and necessary equipment including connection to gas equipment and meter.

D.Furnishing and setting of plumbing fixtures, including all the required trim. E.Roof drains and storm drainage piping.

F. All rough_in and final connection to equipment in the food preparation area and dining area. G.Furnishing of all final plumbing connections to air conditioning units, evaporative coolers, etc. H.Furnishing of all drain lines from each refrigeration, air conditioning, etc. fixture to approved

. Meters and connections: Water main, service connection and meter will be furnished and installed by water company— U.N.O on plans. Plumbing contractor will install all permanent water supply lines from the meter and complete the works as shown, all in accordance with requirements of the local water company. Assessments shall become a part of this Contract. Contractor shall arrange for all meters to be set. Water meter shall be termed charge, and not a fee or assessment

.Gas Service main including meter will be installed by the gas company. Any cost in connection with this service will be paid for the plumbing contractor. Plumbing contractor will install all gas piping from meter and complete the work as shown, all in accordance with the requirements of the gas utility having jurisdiction. 2. Sewer connection shall be per requirements of local district.

J.Excavation and backfill for all plumbing. K.Any fees or assessments required for any utility connections are a part of the plumbing contract.

A.All work shall comply with requirements of all applicable codes, laws, ordinances, and regulations of all authorities having jurisdiction. Nothing in these plans or specifications shall be construed to permit work in violation of the governing codes. <u>Where design exceeds code</u> requirements, design shall be followed

B.The contractor shall obtain and pay for all permits, plan check fee, inspection, etc. and furnish signed certified and acceptable copies to OWNER for their records. Before final acceptance of the work, furnish to OWNER, "Certificates of Inspection", stating that the work has been inspected and approved by the authority having jurisdiction.

A.Locate the work to secure the best possible headroom and space condition. Neatly arrange all

B. Verify that piping and fixtures can be installed in allocated spaces without restriction or interference in required access or clearance to this equipment installed by others. C.Any work installed contrary to the above, in the opinion of OWNER, shall be relocated without

15.3.4 OPENINGS _ IMPORTANT

4.Roller tube shall be of sufficient diameter and wall thickness to prevent excessive deflection along | A.No holes for piping will be allowed in any structural members (except where noted on plans) without consent of OWNER. Openings have been indicated on the Architectural and Structural Plans, and these openings are specified under other sections.

B.At a time in advance of the work, verify the openings or furnish new instructions as to requirements for these openings. Should the furnishing of this information be neglected. delayed or incorrect, and additional cutting is found to be required, the cost of same shall be charged to this contractor.

C.DO NOT CUT STRUCTURAL MEMBERS.

additional cost to OWNFR.

A.The contractor shall protect new and existing work, materials and landscape from damage and provide for the safety of the public and workman by warning lights and barricades or other suitable safety devices. The contractor shall assume all responsibility for materials, storage, damage to equipment and safety to public and workman until final acceptance by OWNER.

A.The Contractor shall be responsible for all work under this section and shall leave the system in perfect operating condition. He shall regulate, repair and replace at his own expense any defective workmanship, materials and equipment which may become apparent within one (1) year after the date of the final acceptance of the work. The decision of OWNER shall be final in respect to imperfections. The Contractor shall furnish OWNER with all manufacturer's

written guarantees of materials and equipment.

A.Materials shall conform to the applicable ASTM. ASME or ASA specification and standard amended to date, unless otherwise specified. B.Should directions of manufacturers of articles used in this contract cover points not shown on th

A.Refer to the Piping Materials Schedule on the Plumbing Plans for proposed materials.

15.3.9 PIPE MATERIALS AND FITTINGS

J. A.B.S. adhesive used to join A.B.S.

A.Cast iron soil pipe and fittings to be service weight cast iron hubless conforming to ASTM A_72. B.Copper tubing to conform to ASTM B_88.

C.Isolation fittings to be EPCO 250#, 109 degrees F. Isolation fittings shall be installed at all points where copper or brass pipe or tubing joins ferrous pipe, fittings or equipment. D.Solder to be silver solder conforming to ASTM B 260.

.Galvanized or black iron pipe to be standard weight conforming to ASTM A_120. F.Fittings to be standard weight galvanized iron malleable fittings, except at gas line, where malleable black iron fittings shall be used.

plans or herein specified, such directions shall be followed.

G.All A.B.S. pipe and fittings shall be A.B.S. and D.W.R. ASTM #D2680 schedule 40. H.All P.V.C. pipe and fitting shall be schedule 40 and meet NSF and ASTM #D3034 requirements. I. P.V.C. adhesive used to join P.V.C. pipe shall be NSF listed and labeled.

K. PEX piping to be installed using s/s fittings and clamps using proper crimp and cutting tools and tolerances installed per manufacturers specifications. NO PEX shall be exposed to

15.3.10 PIPING INSULATION

A.Hot water, hot water return, and tempered water piping shall be insulated with 1" thick Johns_Mansville "Micro_Lok" 650 fiberglass pipe insulation or Rubatex Therma—Cel polyethylene (R=4.0min.) with FHC 25/50 composite rating based on N.F.P.A. 255 tunnel test, or A.S.T.M. E_84 tunnel test, or U.L. 723 tunnel test. Insulation shall be applied after piping has been installed, tested and is in a dry and clean condition.

B.Micro—Lok pipe insulation shall be provided with Type Ap_T composite rated all purpose jacket with integral pressure sensitive sealing adhesive. Transverse butted joints shall be covered with Johns_Mansville "Z_Tape" white pressure sensitive tape. Rubatex seams and joints shall be adhered with Rubatex Contact Adhesive per manufacturers recommendations

C.Fittings and valve bodies shall be covered with Johns_Mansville "Hi_Lo Temp" fiberglass inserts protected with Johns_Mansville "Zeston" premolded polyvinyl chloride fittings covers sealed with Johns_Mansville "Z_Tape" white pressure sensitive tape. Flanges, unions and strainers shall not be covered. Insulation shall be neatly terminated on each end at flanges and unions with Johns_Mansville No. 375 insulating cement.

D.Outdoor insulated piping (including roof), shall be provided with Childers Lock_On 16 mils thick smooth aluminum jacket with longitudinal z_joints and Childers "Jacs" smooth aluminum fitting, flange and valve covers. Transverse butter joints shall be covered with Childers 2" wide preformed butt straps with factory applied plastic sealing compound.

hot and cold water piping and tubing exposed on roof shall be insulated as specified in item

A.Contractor shall provide and install cleanouts at all bends, angles and ends of all waste and sewer piping. All cleanouts shall be brought to grade and in all cases shall be accessible. Exterior runs to sewer shall have clean_outs at a maximum of 65 feet apart. B.Exterior Cleanouts shall be provided with Brooks No. 3_RT open bottom concrete box with steel frame and traffic cover with the word "SEWER" cast in cover.

body flush with the finished wall. D.Interior Floor Cleanouts shall have gasketed water_tight scoriated adjustable screw secured round

15.3.12 HANGERS AND SUPPORTS

A.For soil, waste and storm piping all horizontal runs shall have adjustable ring pipe hangers with supporting rods spaced not more than 10 feet apart B.For water and gas piping, all horizontal runs shall have split ring pipe hangers with supporting rods spaced not more than 10 feet apart. :.Provide isolators at water pipe hangers.

D.All pipe 1 $\frac{1}{2}$ " and larger shall be supported every 10 feet by pipe hangers from <u>top chord of</u>

A.Provide and install access plates over all equipment built into walls, floors or ceilings for access to valves, cleanouts, etc. B.At tile walls: Acudor UF-5000 10" x 10" or 12" x 12" Series stainless steel flanged access panel

with bright finish with Allen key locking device on hinged doors.

C.At painted wall: SAME

A.Contractor shall provide Wilkins/Zurn backflow protection devices or vacuum breakers, at locations, 16.1.1 The "General Requirements" of these specifications are hereby made a part of this Division. if required by governing authorities. Contractor shall check with authorities to see if such are required. SECTION 16.2 ELECTRICAL WORK

15.3.15 TRENCHING, EXCAVATING & BACKFILLING

A.All trenching, excavating and backfilling for the installation of all plumbing work shall be done under this section of the specifications. After approval of installation, trenches and excavations shall be backfilled with sand or approved imported soil. Conduit trenches shall be leveled to prevent deformation of pipes after backfill. Backfill material shall be free of large clods, stones and debris and shall be compacted to eliminate voids and to obtain density of <u>ninety</u> percent of the adjacent soil. Care shall be taken to prevent damage to pipes or other buried items and to obtain full and uniform bearing against the sides. Truck rolling may be used for shallow trenches 24 inches or less in depth. Where backfill occurs in paved areas, a mechanical tamper shall be used to obtain the compaction required under other sections of these specifications applicable to work in such areas. Backfill under building slabs shall be approved by OWNER. If sand is used as backfill material, jetting will be permitted. Plumbing Contractor shall remove excess dirt from site.

A.All piping shall be run concealed except where shown otherwise on drawings. Where piping is run exposed it shall be placed in unimportant and out of the way places, as approved by

B. Valves, traps, cleanouts, and other apparatus to be installed in an easily accessible location. C.All steel piping underground or in concrete shall be dipped in asphalt and spirally wrapped with two layers of 15 lb. asphalt saturated paper, fully bedded in the asphalt and painted with a full coverage of asphalt paint. All fittings and other joints shall be wrapped in the field in a similar manner

D.Soil, waste, vent offsets and house drains to be installed with a minimum, uniform grade of 1/4 inch per ft and maximum of ½" per ft. . Hot and cold water lines shall be at least six inches apart where piping is parallel. F.Twenty_four (24) gauge galvanized iron flashing assembly to be furnished and installed on each

pipe passing through the roof. Flashing shall have reinforced boot and be complete with aglyanized iron counter flashing sleeve and perma_seal waterproofing compound. All vent pipes shall be terminated 4 inches above the parapet. All vent pipes through the roof must be rigidly braced to eliminate any movement.

G.Provide trap primers when required by governing authorities and as shown on the plans. H.Provide water hammer arrestors as shown on the plans. Install arrestors at the fixture, not the attic space. No access panels are required.

Break all vents and pipes through roof into equipment well. No pipes shall penetrate the sloped roof area. No vent through the roof shall be closer than 10 feet from any air intake. Break any vent away to maintain the minimum 10 foot dimension. Black pipe gas line, where shown being run in pipe sleeve in kitchen area floor, shall be in a

inch sleeve, and shall be vented through roof per Uniform Plumbing Code, or per local requirements. K.Soil, waste, storm drain, gas and water piping shall not rest on chords or webs of trusses. Pipe hangers must be used per 15.3.2.

15.3.17 FIXTURES AND EQUIPMENT

1. All faucets shall be equipped with renewable seats. All exposed metal parts of plumbing fixtures shall be the product of one manufacturer. 2.All fixtures shall be securely attached to supporting surfaces as specified and shall be installed

plumb and level. Wall hung fixtures shall be securely attached to wood blocking securely 3.Every supply to every fixture and piece of equipment requiring the various services shall be separately valved. In general, these valves are specified with the fixture, but where not called for in the fixture specifications, the contractor shall provide suitable compression

stops (loose key or screw driver type lockshield valve) in addition to the faucets.

4. Plumbing fixtures shall be Zurn fixtures as specified. Floor sink lip shall be flush with finish floor tile unless required otherwise by local jurisdictional authority. All sinks must be aligned parallel to alignment of mortar joints in floor tile. Any floor sink not conforming to above, shall be removed and reset to

B.Refer to the Plumbing Fixture Schedule on the Plumbing Plans for proposed specifications:

C.No Piping should be ran on roof. If unavoidable Plumbing Contractor shall securely support all water, gas, condensate piping, and any other pipes on roof, with redwood blocks 3_1/2" wide and 12" long set in roof mastic, not to exceed 3'-0" on centers. Pipe shall be strapped to wood blocks. Provide isolation between straps and pipes. (Do not nail blocks thru roofing.)

5.3.18 CUSTOM KITCHEN AND RESTAURANT EQUIPMENT

A.Plumber will provide rough in and final connection to waste, vent, hot and cold water, gas, etc. all as indicated on the plan and/or as required to special equipment by others. .*Kitchen Equipment supplier will provide Pot and Vegetable sinks. Plumber will be required to install Faucets, Pre-Rinse, and lever wastes these items on the Pot & Vegetable sinks. 2.Plumber will provide and install drains, valves, tailpieces, traps and/or indirect drains —(copper i

all locations except drink dispenser & ice machine drains where PVC is acceptable) as

required to complete the work. Each supply line to each fixture shall be equipped with an angle stop valve located in an accessible space. All "P" traps shall be removable. 3.All aas valves shall have $1\!\!4$ turn shut offs with lever handles — able to turn without the use of special tools.

B.Plumber to note all rough in locations as dimensioned on the plumbing rough in plan. Critical

shall be brought to the attention of the Project Manager to verify.

A.Refer to the Plumbing Equipment Schedule on the Plumbing Plans for proposed specifications:

A.All tests shall be made in strict accordance with all applicable ordinances or as outline below. OWNER shall be notified in advance of the time schedule for tests, so that an OWNER's

representative is present at the test. .The entire soil, waste and drainage system shall be tested under water pressure.

2.All water piping shall be tested under a hydro_static pressure of 125 p.s.i. 3.All power, water and all instruments required shall be furnished by the plumbing contractor as well

as all necessary labor. 4.All gas piping shall be tested under air pressure of 10 p.s.i. which shall be held for four hours

5.Tempered water to be tested at hand sinks and lavatory's to maintain 110 degrees. B.If the requirements of the ordinances are in excess of these, they shall be followed. C.All tests shall be made in the presence of and to the satisfaction of OWNER or his representative.

A.Upon completion of cleaning of system and apparatus, automatic parts of plumbing system shall be carefully adjusted for normal operation. All flush valves shall be checked for proper operation and final adjustments made where required. Vacuum breakers on water supply to fixtures shall be inspected and cleaned of any foreign material that would hinder their proper functioning.

A.After completion of work and prior to final acceptance, thoroughly clean all parts of the work, remove all debris and surplus equipment and leave installation in perfect condition, ready for

SECTION 15.4 FIRE SPRINKLER

15.4.1 <u>SCOPE</u> C.Interior Wall Cleanouts shall have cleanout body plastered or tiled in the wall with the face of the A.G.C. to coordinate fire sprinkler and monitor system if required on plans. Sprinkler system to comply to N.F.P.A. #13 requirements. Sprinkler contractor shall include all costs from water districts for service connection, detector check valve and vault as required. 1.Installation shall comply to all City, County and Fire Dept. requirements including any monitoring

> and alarm systems. Provide complete coverage of entire floor area, walk_in cooler and freezer (dry pendant) and complete attic coverage, including all interior soffit areas. 2.Monthly or annual monitoring fees would not be a part of costs of this installation but would require coordination with the Construction Project Manager to assure an agreement was made with the restaurant operations department.

3. Sprinkler heads shall be semi_recessed with chrome plated escutcheon in all public areas, including restroom and vestibule. Sprinklers shall have pendant heads with chrome escutcheon. assembly adjacent to the water heater in clear space— keep aisle ways clear. 5. Fire sprinkler contractor shall immediately submit complete shop drawings for local fire authority

fire department tests. **DIVISION 16 ELECTRICAL**

SECTION 16.1 GENERAL

A.Before submitting proposals for this work, the Contractor will be held to be familiar with all governing codes and to have examined the premises to determine conditions which may affect or be affected by his work, and to understand the conditions under which he will be

obliged to operate in performing his work. No allowance shall be made subsequently in this

regard for any error through negligence on his part. The Contractor shall check for all addenda before submitting his bid. work includes furnishing and installing all electrical material, accessories, supports, conduit, wire, connections, grounding, excavating and all other labor and materials indicated on the drawings or specified herein and required by codes. This includes all electrical materials and connections required for operation of all items of equipment furnished under other sections of these specifications and by OWNER. For clarity some items may be noted as "BY ELECTRICAL CONTRACTOR" or "IN THIS CONTRACT".

The work under this section is not limited to, but shall include:

1.Electric service conduits and cables. 2.Coordinate with electrical utility company and provide metering facilities to comply with utility | A.The general arrangement of the service entrance conduits are indicated on the drawings. The

3.Coordinate with telephone company and provide telephone service conduits to comply with telephone company installation requirements. 4. Provide and install Main metering switchgear section.

5.Feeders for a complete power and lighting distribution syster 6. Installation of owner provided MDP Panel — (prewired panels, breakers, motor control and lighting control with all relays)..

7. Outlet boxes, conduit, wire wiring devices, control components and accessories. 8.Conduit, wiring and connection for all line voltage electrical equipment furnished and installed by others (see Mechanical, Refrigeration, Fire Control drawings).

9. Conduit and wire for low voltage controls. Final connections by others. 10. Trenching, excavating and backfilling for electrical work. Additional Permit, plan check and inspection fees as required.

13. Any fees or assessments required by local authorities are a part of the electrical contract. 14. Install car sensors in drive thru slab (2) each -provided by OWNER. 15. All power for site lighting, signs & menu boards as noted on plans. 16. Provide and install delivery door alarm system. (see plans & Spec Section 8)

1. Public telephone wiring and instruments. 2. Connection of low voltage wiring to air conditioning controls (except as shown on plans). 3. Public sound system.

E.Equipment provided under other sections, but connected under this section: Mechanical.

2.Food service equipment.

D.Work Not Included:

12. Disconnects for all fan motors.

3.Signs.

16.2.2 <u>REQUIREMENTS OF REGULATORY AGENCIES</u> All work and materials shall comply with all regulations of the state and local Fire Marshall, the National Electrical Code, and all other applicable state and local codes and regulations. All such rules, regulations and ordinances in effect at the time the work is done shall be as fully binding as if written herein. Nothing in these drawings or specifications shall be construed to permit work not conforming to all such rules, regulations, and ordinances. Where the requirements of the drawings or these specifications exceeds those of governing codes or agencies, the plans and specifications shall govern.

16.2.3 PERMITS AND INSPECTIONS This Contractor shall obtain and pay for all plan check, permit and inspection fees for all electrical material and connections which are required by legally constituted authorities having

jurisdiction, and make arrangements for all inspection. 16.2.4 CHANGES TO ELECTRICAL WORK

OWNER reserves the right to order, in writing, any changes which they may desire to make in the work or materials herein specified, or shown on the drawings. Such changes shall not alter the terms of the contract. The true value of such changes, whether additions or deletions, shall be added to or deducted from the original price. All additional conduit, outlets, switches, fixtures and other material and labor added to the electrical work, not indicated on the drawings or in the specifications, and involving additional cost to OWNER, shall be submitted to OWNER and a price agreed upon, in writing: See Section 1.8 of this specification.

16.2.5 COORDINATION WITH OTHER TRADES

The drawings indicate the approximate location of outlets and materials unless dimensions are shown. The Contractor shall coordinate with other trades and use good judgment in locating outlets and materials to avoid conflicts with work being installed by others. Outlets for connection to equipment shall be located by referring to shop drawings, manufacturer's recommendations and by measuring actual equipment to be installed. The Contractor shall examine all contract documents and drawings to determine division of work between trades and to logically locate work to coordinate with structural elements, cabinet work, mirrors, windows. doors, door swings, including cabinet doors, furring, ducts, pipes and other elements of construction and equipment.

16.2.6 DRAWINGS AND SPECIFICATIONS

A.The drawings indicate the general arrangement of equipment and routing of conduit and wiring dimensions must be kept. If for any reason there is concern about a specified dimension it systems an for clearness and legibility are essentially diagramatic. It is not the intent of the drawings to show exact connection points, offsets, pull box locations and routing through structural elements. Where not specifically located, all outlets shall be located in accordance with good practice

and shall be readily accessible for operation and maintenance. All scale dimensions are approximate. Before installing electrical work, the Contractor shall verify requirements for other trades and construction details and verify dimensions on the job.

16.2.7 <u>DRAWING CONFLICTS</u>

In the event of a conflict or inconsistency between items indicated on the drawings and in the specifications or conflicts with code requirements applying to the same item, that drawing indication, note, specification or code which prescribes and establishes the higher standard, provides for a better grade of material or provides a more complete job shall take precedence. The Contractor shall notify OWNER to obtain a clarification.

16.2.8 <u>MATERIALS AND WORKMANSHIP</u>

A.All material shall be new, unless specifically noted otherwise, and shall bear the label of, or be listed by, the Underwriters' Laboratories, Inc., where applicable. All materials shall be products of manufacturers regularly engaged in the production of such material and shall be the latest improved design, unless specifically noted otherwise. All materials of one type or

of one system shall be supplied by the same manufacturer. B.All workmen shall be skilled in the kind of work they are performing and shall be under the direction of a competent foreman. All material shall be installed in a neat workmanlike manner and firmly secured in place, consistent with standard practices, in the electrical construction industry, as defined in the "Standards of Installation" published by the National Electrical Contractors Association.

16.2.9 <u>REMOVAL OF MATERIAL</u> A.All materials not approved by OWNER and all material not properly installed, shall be promptly removed from the premises by the Contractor, whether or not it has been incorporated into the work. The Contractor shall then promptly replace and reconnect all work in accordance with the drawings and specifications, at his own expense, and shall also bear the expense of

restoring all work of other trades damaged or dislocated by such removal or replacement. B.Should the Contractor refuse to remove and replace unsatisfactory materials and installation, and restore work of other trades after having been notified by OWNER, then OWNER shall have the right to enter upon the work and procure such materials and labor required to remove and replace all unsatisfactory work and restore work of other trades, in order to complete the project. All costs incurred by OWNER for such corrective work shall be borne by the

6.2.10 STRUCTURAL CONDITIONS _ SPECIAL NOTE A.Where conduits, sleeves, inserts, supports, cabinets, fixtures and other material are to be attached

to, pass through, or interfere with, any structural member, or where notching, boring or cutting of any structural member is necessary, or where special openings are required through floors, footings, foundations, walls, roofs, or other structural elements to accommodate the electrical work, this Contractor shall obtain the approval of OWNER and shall coordinate all such work with the General Contractor, and other trades. The Electrical Contractor shall perform all such work and shall patch and repaint all members and surfaces damaged or soiled in performing the electrical installation, unless specifically Where conduits pass through walls or foundations, seal around conduits to make the work

watertight. Where conduits pass through roofs, provide galvanized metal flashing and seal plan check and approvals as well as owner approval. Contractor shall include all required with a suitable compound, intended for the purpose to make the work watertight. C.See detail and plan for conduits through roof on Architectural drawings.

16.2.11 TRENCHING, EXCAVATION AND BACKFILLING

A.All trenching, excavating and backfilling for the installation of all electrical work shall be done under this section of the specifications. After approval of installation, trenches and excavations shall be backfilled with the excavated material or approved imported soil. Conduit trenches shall be leveled to prevent deformation of conduits after backfill. Backfill materials shall be free of large clods, stones and debris and shall be compacted to eliminate voids and to obtain a density of ninety (90%) percent of the adjacent soil. Care shall be taken to prevent damage to conduits or other buried items and to obtain full and uniform bearing against the sides. Truck rolling may be used for shallow trenches 24 inches or less in depth. Where backfill occurs in paved areas, a mechanical tamper shall be used to obtain the compaction required under other sections of these specifications applicable to work in such areas. Backfill under building slabs shall be approved by OWNER. plants, shrubs and turf in the area of trenching or excavating shall be carefully removed,

protected replanted after backfilling is completed. C.All sidewalks, driveways, and other cement or asphalt surfaces, which are cut or damaged during trenching or excavation shall be repaired to match the adjacent work in materials and finish.

The Contractor shall be responsible for making all necessary provisions throughout the building to receive his work as the construction progresses. He shall provide all sleeves, backing, inserts, anchor bolts, brackets, hangers and other supports necessary for the installation of all electrical fixtures, pull boxes, conduits, wireways, panelboards, switchgear, control equipment, and all other material and equipment in this contract.

Contractor shall be responsible for verifying the exact location of the point of service connection, routing of incoming service lines and service metering requirements with utility company and shall provide all service equipment in accordance with the utility company requirements. <u>Before submitting his bid,</u> the Contractor shall also contact the utility company and determine the cost of labor and material to be furnished and installed by the utility company but will be chargeable to the customer, and he shall include all such charges in his bid. All labor and material required to leave the electric service installation complete and connected without additional cost to OWNER shall be included in this contract. 3.The Contractor shall give OWNER sufficient advance notice, in writing, when they must make

16.2.14 <u>PROTECTION</u>

application for permanent service.

The Contractor shall protect new and existing work, materials and landscape from damage and theft, provide for the safety of the public and workmen by warning lights and barricades or other suitable safety devices. The Contractor shall assume all responsibility for materials, storage, damage to equipment and safety to public and workmen until final acceptance by

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PROJECT: 151101 DATE: 06/10/16 DRAWN: kk/js

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SP.6

#9080/1102578

Permit Set

SHEET TITLE: **SPECIFICATIONS**

SHEET NUMBER:

A.Main Metering and Distribution Switchgear: 1.The approximate locations of the metering and distribution equipment are indicated on the drawings. Verify building dimensions on the site, and equipment dimensions from shop drawings and coordinate space requirements with other trades. Coordinate with the utility company and manufacturer and provide metering equipment, and space with provisions and fittings for equipment to be furnished by the utility company, to comply with the

utility company requirements. 2.All switchgear shall be totally metal enclosed, dead front, dead rear, with line side bussing for all present equipment and spaces. Bussing in space for future equipment shall be drilled and tapped and ready to receive equipment. All load and line side lugs for service and feeders shall be of proper size to hold all strands of the wires. Provide all circuit breakers, switches, fuses, motor control devices and all other equipment as specified herein and as indicated on switchgear and feeder diagrams and notes on drawings. Provide NEMA "Class 1B" wiring. Provide an identifying nameplate for each device on the switchboard. Nameplates shall be black and white nameplate stock with characters cut through the black exposing the white. Cabinets shall be treated with a rust inhibitor and have standard factory finish, unless indicated otherwise. Level all floor standing switchgear and fasten securely to floor. Where floor is not level, pour a separate level concrete base or cut floor and grout in suitable channels to provide a level base.

B.<u>Panelboards and Load Centers — (when plans reflect to be provided by Electrical Contractor)</u>: NOTE: When MDP Panel is specified on plans - This item is provided by OWNER & installed by EC. It is a pre-wired packaged system that includes electrical panels, motor control systems and lighting system. Information below is for non-prepackaged systems.

Lighting, power panelboards and load centers shall be dead front, dead rear, flush or surface mounted, as noted on plans, with hinged door, in trim, unless noted otherwise.

2.A directory frame with plastic shield shall be factory assembled on inside of doors with a directory card, neatly typed, indicating circuit numbers and circuits controlled. Cabinets shall be of code gauge galvanized steel. Door trim shall be treated with a rust inhibitor and have standard factory finish unless indicated otherwise. A stamped metal nameplate shall be installed on all dead fronts indicating U.L. approval, volts, amps and phase of panel. Al panels shall have a black laminated plastic nameplate on outside, engraved with panel identification. Quantity and rating of breakers, bus capacity, cabinet size, bussing sequence and circuit numbering shall be as indicated on drawings. All outlets and equipment shall be connected to circuit numbers as indicated on drawings. Circuit breakers shall be trip indicating with quick_make, quick_break mechanism with thermal magnetic trip, unless specifically noted otherwise. All 2 and 3 pole breakers shall have common trip. Circuit breakers used for switches of electric discharge lighting shall have

provision for padlocking in the open position and shall be rated for switching duty. 3.Cabinets and trims for all panels of one type shall be matching in style and finish, except as noted otherwise, and cabinets and door_in_trim shall be obtained from the same manufacturer. At each flush mounted panelboard, extend a one_inch spare conduit, in addition to any spare conduits shown on plans, into furred space, attic or joist space above the panel.

C.<u>Motor, Controls Equipment — (when called for by Electrical Contractor on Plans—see note "B"</u>

NOTE: When MDP Panel is specified on plans- This item is provided by OWNER & installed by EC. It is a pre-wired packaged system that includes electrical panels, motor control systems and lighting system. Information below is for non-prepackaged systems.

1.The Electrical Contractor shall provide all conduit, wiring and connections for all line voltage, and low voltage, and low voltage equipment, (48 volts and under), motor controls and mechanical equipment furnished under the electrical and other sections of the specifications and furnished by OWNER, unless specifically noted otherwise. Air conditioning contractor shall make final connection of low voltage controls. For conduit wiring and connections of motors, starters, controls and related components and equipment furnished by others, but not prewired, and for interwiring of motor starters and controls, furnished under the electrical contract, to control equipment by others, obtain the manufacturer's approved shop drawings, diagrams and instructions for the specific equipment and application, as furnished by the manufacturers of the various items of equipment to be

used on this project. 2.All motor starters, if provided under this section of the work shall have overload elements in all phases. Verify the actual motor nameplate current rating and ambient conditions and provide the proper overload heater elements. Starters and relays shall be provided with all hand_off_auto switches, pushbuttons, pilot lights, auxiliary contacts and other accessories and with coil voltages as required for the proper operation indicated by the diagram and instructions for the equipment to be controlled.

3.Individually mounted units shall have enclosures suitable for the location and atmosphere in which they are installed. Starters, relays and controls shall be as manufactured by G.E., Square D", or Cutler Hammer. All starters, relays and control components furnished by others" but not integrally mounted on their equipment, shall be installed by the Electrical Contractor as directed by the trade furnishing the material.

D.<u>Conduit</u>

1. The Contractor may install whichever of the following types of conduit are permitted by code, a.Rigid conduit and fittings shall be steel, hot dipped galvanized or sherardized, or aluminum.

b.Electrical metallic tubing and fittings shall be steel, galvanized or sherardized, or aluminum. Fittings shall be water resistant type.

c.Flexible metal conduit and fittings shall be steel galvanized or aluminum and shall be continuous from outlet to outlet and shall be used only in dry locations. "Sealtite" liquid tight flexible conduit, shall be used where flexible metal conduit is not covered by walls or above ceiling and at exposed open areas of equipment, and shall be installed per N.E.C. Article #351.

d.Plastic conduit: Plastic conduit and fittings may be used for underground runs for electric and telephone service, panel feeders and branch circuits. All conduit sizes shown on plans are based on steel conduits with the number of conductors shown. Where plastic conduits are used the contractor shall be responsible for providing the proper size ground conductors and increasing the size of conduit where necessary. All plastic conduits shall be PVC, schedule 40, heavy wall rigid conduit. All joints shall be firmly cemented together. Where conduits are turned up above grade or into buildings, all elbows and risers shall be Schedule 80 P.V.C.

e.<u>Intermediate Metal Conduit</u> shall be hot dipped, galvanized or sherardized. IMC may be used the same as rigid steel except it shall not be used in concrete or underground. f.BX, MC or armored cable is not permitted except for light whips.

q.Plastic flex conduit is not permitted. h.Seal—Tite is to be used in any exposed areas.

a. Conduit routing indicated on the drawings is diagramatic only and is not necessarily the intended, actual conduit run. The Contractor shall check and be responsible for the actual installation with regard to available space and shall cooperate with other trades. Conduit and metallic raceway shall be mechanically and electrically continuous from sources of current to all outlets in a manner to provide a continuous ground path. Ends of conduit shall be closed during construction to prevent entrance of dirt or moisture. All conduit work shall be concealed unless otherwise shown or indicated. All empty conduits and ducts shall have a No. 12 B.W.G. steel, zinc_coated pull wire or nylon pull line installed therein. Empty conduits stubbed out shall be threaded and capped at both ends unless indicated otherwise.

b. All conduits installed underground must be at least 18 inches below finished grade, and all backfilling tamped every 6 inches. All surplus earth shall be disposed of as directed on the site. All conduits must be tested and approved before covering. Where installed in ground floor slab, the conduits shall be trenched under or blocked up to

provide a minimum of two inches of concrete on all sides of the conduit. c. The joints of all conduits run in concrete or underground shall be liquid and gas tight and all threads shall be thoroughly filled with red lead or other approved compound before screwing into coupling.

d.All underground metal conduits not in concrete, either inside or outside the building area, shall be wrapped with a pipe coating tape of not less than 10 mil thickness. Tape shall be applied with a minimum one_half inch overlap. Width shall follow manufacturer's recommendation for the size of conduits used. Tape shall be Scotchwrap No. 52 or Johns_Manville NO. VID_10. Fittings and couplings shall be covered with an additional molding tape under the coating tape.

e.Install electrical metal conduit (EMT) per N.E.C. Article 348. EMT shall be securely fastened in place at least every 10 feet and within 3 feet of each outlet box, junction box,

cabinet or fitting. f. Install flexible metal conduit per N.E.C. Articles 350 and 250-91. Flexible metal conduit shall be secured by approved means at intervals not exceeding 4—1/2 feet and within 12 inches of each side of every outlet box, junction box, cabinet or fitting. A ground wire shall be installed in all flexible metal conduits except where less than 6 feet long and installed wires are protected by maximum 20 AMP over current devices. A ground wire shall be installed in all conduits which are used to connect equipment where flexibility is required. Flexible metal conduit shall be installed in essentially straight lines without loops. Provide additional supports as necessary to eliminate

sagging. Armored cable (BX or MC) shall not be used. g.Where conduit penetrates any refrigerated areas or boxes, conduit shall be sealed inside and outside to prevent condensation transference.

E. Grounding: All wiring shall be in a grounded, continuous metal raceway system. except as specified above for service ducts. The raceway neutral and all electrical and mechanical equipment shall be grounded as required by all applicable codes, whether such grounding is

F.<u>Boxes and Covers</u>: All boxes and plaster rings shall be of size required by ordinances or laraer and unless noted otherwise, shall be standard code gauge pressed steel, galvanized sherardized. Proper plaster covers, which rise the full thickness of plaster or finish material, must be installed on all outlets in finished locations. All boxes, except in concrete or masonry, shall be securely screwed to suitable blocking, 2" x 4" or 2" x 6" as required. Device outlet boxes, shall be minimum 4 inches square, 1_1/2 inches deep. Flush outlets shall be provided with proper flush device cover. Surface outlets shall be provided with proper zinc_coated steel surface cover in unfinished areas. All outlets shall be flush, unless otherwise indicated. In finished areas install stainless steel plates in food preparation. serving and scullary areas. In all other areas, smooth plastic plates may be installed. A exterior boxes shall be threaded, cast, weatherproof type boxes. No "open to earth bottom" type concrete boxes are allowed.

G.<u>Lighting Fixtures, General</u>

1.A lighting fixture shall be installed at all lighting outlets. All light fixtures and lamps to be provided by owner unless noted otherwise on plans. All lighting fixtures shall be of the type indicated on plans and described in the fixture schedule and shall be furnished complete with lamps. All fixtures of one type shall be by one manufacturer and shall be identical in appearance and finish.

2. Proper hangers or fixture studs shall be provided for the type of installation used. Blocking and intermediate supports between joists, or channels for suspended ceilings, shall be furnished under this section of the specifications. Use approved bar hangers to support fixtures on suspended ceilings. All fixtures shall be provided with proper plaster frames or adapters necessary for a complete installation in the type of ceiling in which they are installed whether such accessory materials are specified or not.

Electrical Contractor shall check with the ceiling installers for location and installation of al fixtures. Where dimensions or other orientation are not shown, fixtures shall be installed in straight lines, spaced to obtain a symmetrical arrangement within the room. with distance from wall to negrest fixture one half the distance between fixtures. Where fixtures are installed in or on acoustic tile or panel ceilings, the spacing of fixtures shall be adjusted to obtain the most nearly symmetrical arrangement with the lines of the acoustic material. (See Reflected Clg. Plan.)

4. Where specified on plans and Contractor is to provide fixtures, the Catalog No., in the lighting fixture schedule, indicates the type of fixture. The Contractor shall provide all fixtures with all accessories required for a complete installation. Also provide the fixtures with all variations from standard as indicated by the description or other notes, specifications or codes whether or not such accessories, variations or additional components are indicated by the catalog number.

H.Light Fixtures

1.All recessed incandescent fixtures shall have approved heat resistant wire (AF) between junction box and fixture socket. A clearance of 1/2 inch or more shall be maintained between fixture and wood members.

2.Fluorescent lighting fixtures for direct mounting on combustible ceiling material shall be attached with short stems or pedestals to suspend the bottom of the luminaire a minimum of 1_1/2 inches below the ceiling, unless approved direct mounting fixtures are used Luminaires shall be attached to at least two pedestals by two screws each and pedestals shall be supported from blocking by at least two screws each, where mounted on wood blocking. Fixtures on low density tile shall be approved for direct mounting, unless specifically noted otherwise.

1.Incandescent lamps shall be inside frosted, unless indicated otherwise, from 0 to 300 watts, and clear for higher wattages, except that PAR lamps or reflector lamps shall be provided for fixtures designed for same.

2.Fluorescent lamps shall be per Lighting Fixture Schedule, as manufactured by Westinghouse, General Electric Co., or Sylvania Electrical Products. Fluorescent lamps and ballasts shall be designed for 430 milliams operation of either rapid start or T_12 slimline lamps, unless indicated otherwise on plans. Ballasts shall be high power factor, E.T.L. tested and approved and C.B.M. certified. Any fluorescent fixtures or ballasts which have a noise level which is obviously above the average shall be corrected or replaced. All ballasts shall be energy efficient type.

1.Install a light switch, at all switch outlets, of type indicated on plans. Lighting switches shall be tumbler type. Switches shall have plaster ears for mounting and shall have fire resistant, non_absorbitive, composition cups which fully enclose the operating mechanism.

2.Switches in all finished areas shall have ivory handles. 3.Switches for incandescent and fluorescent lighting shall be A.C. type rated 15 amps. 120/27

.Furnish and install all device plates for all outlets, including switches, receptacles, telephone outlets, etc. 2.In all areas, including ceiling, device plates shall be satin stainless steel, Sierra "S" line unless

indicated otherwise. 3. Where two or more devices are installed at the same location, gang plates shall be used.

4.Install all satin stainless steel cover plates with 1-1/2° dia. Hole and arommet on all data boxes PRIOR to electronics vendor arrival for their installation.

5.Outlets for pulling and junction points shall have blank plates to match the other plates in the area. Where boxes with blank plates are required on the ceiling, the covers shall be painted to match the finished surfaces. Do not install sheet metal covers on boxes in finished walls or ceilings.

.. Disconnect Switches

Enclosures for EXO switches shall be general purpose NEMA 1 for indoor applications and raintight. NEMA 3R for outdoor applications, unless noted otherwise. 2.Switches shall be fused or non_fused, 2 or 3 pole as required for the circuit or equipment which it is connected. 3.Switches for motors shall be general duty type, horsepower rated, side operated, with guick_make

and quick_break operating mechanism, unless noted otherwise. M.Convenience Outlets

1. Shall be "Specification Grade", duplex, 3 wire, with one pole grounded. 2.At convenience outlets behind shelving install the outlet boxes flush with the wall and use

indicated otherwise, all conductors shall be copper.

plaster ring to project through back of the shelving 3. Where outlets are indicated at counter tops and no mounting height is indicated, the Contractor shall check the architectural drawings for counter height and install the outlets above the counter and above the backsplash, unless indicated otherwise.

4.Receptacles shall be ivory in all areas including ceiling, except where isolated ground (orange) receptacles are called for.

a.15A, 125V (parallel blade): Sierra No. 1402

b.15A, 250V (tandem blade): Sierra No. 1403

c.20A, 225V: Sierra No. 1462

1. All wire shall be new, A.W.G. size, and of recent manufacture, bearing the Underwriter's label, the manufacturer's trademark and the type and size of wire. Conductors shall be continuous between outlets without splices, except in outlets or junction boxes.

2.Minimum wire size shall be No. 12 A.W.G., except No. 14 A.W.G. may be used for motor control circuits. All wire No. 8 A.W.G. and larger shall be stranded. All wires in raceways shall be Type THHN or THW. Wire in continuous row fluorescent fixtures shall be type AVA, RHH or THHN. Fixture wire shall not be less than No. 14 A.W.G., stranded type AVA, AF or other approved, heat resisting wire. Unless specifically

3.No wires shall be installed in conduit until conduit and outlet boxes have been permanently installed and are free of moisture and all debris have been removed from boxes and outlets and conduit swabbed clean.

4.Use only approved compounds for pulling wires. Use of green soap or petroleum products will not be permitted as wire lubricants.

5.Wiring at panelboards, switchboard and terminal cabinets shall be neatly formed and laced. Tag each wire by circuit number, including neutral, with adhesive markers. 6.Circuits for cash registers, computer processor and printers shall have separate neutrals and equipment ground wires for each circuit, run from the outlets to the panel. 7.150 degree type FEPB wire shall be used at all heating appliance connections.

O. Wiring Connections:

All connections shall be made without strain on conductors, allowing conductors to take a natural position after connection. All foreign materials shall be thoroughly cleaned from the contacting surfaces of lugs and wire before making connection.

All materials and equipment shall be as specified herein or as indicated on the drawings. Substitutions may not be made without written approval of OWNER. Wiring quality and space requirements shown on plans is for equipment as specified. In the event that the Contractor makes substitutions in materials, equipment or designs, with or without OWNER's approval, the Contractor shall assume full responsibility for all changes in conduit, wiring, space requirements and for the effects of such substitutions on the entire project. He shall pay all charges resulting from such substitution including charges for removal of such material, modification in the work of other trades and including charges for additional engineering. Acceptable alternate materials are indicated on the drawings and in these specifications. No other substitutes shall be made.

6.2.17 CLEANING EQUIPMENT AND MATERIALS

The Contractor shall thoroughly clean all fixtures, switchgear, panels and other equipment and material installed under this contract. Parts which are to be painted shall be thoroughly cleaned of cement, plaster, grease and oil spots, brushed with steel brush to remove rust, and left smooth and clean. Where finished surfaces have been damaged, the Contractor shall paint or otherwise finish such items to match the surrounding finish. Any dirt, rubbish, paint spots or grease on walls, floors, ceilings or equipment caused by the Contractor shall be removed by him and the premises left in first class condition in every respect, to the satisfaction of

6.2.18 TEST AND INSPECTIONS

Test all wiring for continuity, grounds and short circuits before devices and equipment are connected. After electrical system is energized, test all circuits for proper operation. Verify operation of all motors and connect for proper rotation. Meter the service neutral and equipment grounding system and make any adjustments or additions necessary to comply with

the maximum ground circuit resistances by codes. Meter the voltage across all lines and to neutral at the main service and provide a written report of all readings, to OWNER. Where service voltage is more than five (5%) percent above or below rated voltage notify the utility company and make necessary arrangements to have the voltage adjusted to within the limits permitted by the Public Utilities Commission. Where transformers are installed make tests as indicated for that equipment. During inspections by OWNER or Engineer, the Contractor shall provide all labor necessary to expedite inspection of interiors of equipment and shall remove and reinstall dead fronts and wireway covers on switch board, panels, junction boxes, light fixtures, fixture lenses and other terminal space covers or control equipment. The Contractor shall energize and operate all equipment and arrange for operation tests of all equipment. All defects shall be corrected promptly.

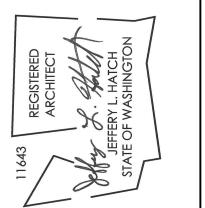
The Contractor shall guarantee all parts of this work, including all individual items of material and equipment and the system as a whole, to be free from defects for a period of one year from the date of acceptance of the project. Upon proper notice, the Contractor shall investigate the problem and provide the necessary labor and materials to correct all defects which develop or become apparent during this period, at his own expense. Lamp bulbs shall carry the standard factory guarantee, except as noted otherwise on plans.

Upon completion of all electrical work, the Electrical Engineer will make a final inspection. Any work not complying with these specifications and with the plans, must be corrected before

acceptance by OWNER. Should the Electrical Engineer be required to return to the project for a reinspection, all costs shall be charged to the Electrical Contractor, and said costs will be with held from Electrical Contractors final payment.

16.2.21 DECORATIVE FIXTURES

The contractor shall be responsible for receiving decorative fixtures furnished by others, and installing same under this contract.



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Permit Set

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SPECIFICATIONS

SHEET NUMBER:

SP.7