GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0"

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY

INTERIOR FINISH SCHEDULE

HATCH	CODE	DESCRIPTION	MANUFACTURER	MODEL	COLOR
ACCESSORIES					
	AP1	ACOUSTICAL PANEL	T.B.D.	T.B.D.	TBD: TBD
	B1	BASE, 4" TOP SET RUBBER	JOHNSONITE	TRADITIONAL 4" RUBBER BASE PRE-FORMED BY MANUFACTURER INSIDE & OUTSIDE CORNERS	TBD: TBD
	B2	BASE, 8" INTEGRAL COVED EPOXY	STONHARD	SEE FLOORING.	MATCH ADJACENT FLOORING
	CG1	CORNER GUARD, 3X3 (90˚)	ACROVYN	SOLID COLOR 4000 PVC FREE WITH ALUMINUM RETAINER: SSM-20AN (90˚-2" LEGS)	COLOR: TBD: TBD TEXTURE: SHADOW GRAIN
	TS1	TRANSITION STRIP, EPOXY TO RUBBER / CARPET TO RUBBER	SCHLUTER	SCHIENE: E 60 EB	BRUSHED STAINLESS STEEL
	TS2	TRANSITION STRIP, RUBBER TO CONCRETE	SCHLUTER	RENO-RAMP/-K	BRUSHED STAINLESS STEEL
	TS3	TRANSITION STRIP, EPOXY TO EPOXY	PEMKO	256 SADDLE THRESHOLD	BRUSHED STAINLESS STEEL
	TS4	TRANSITION EPOXY KEYED EDGE		10/1D2.0	
CASEWORK					
	PL1	PLASTIC LAMINATE, FIELD	WILSONART	T.B.D.	TBD: TBD
	PL2	PLASTIC LAMINATE, ACCENT	WILSONART	T.B.D.	
CEILING					
	ACT1	ACOUSTICAL CEILING TILE, FIELD, 2X2 AND 2X4	ARMSTRONG	PRELUDE XL15/16" EXPOSED TEE GRID 1910: ULTIMA, SQUARE LAY-IN, 24" X 24"X 3/4" 1913: ULTIMA, SQUARE LAY-IN, 24" X 48" X 3/4"	WHITE
	ACT2	ACOUSTICAL CEILING TILE, HIGH ACOUSTICAL, 2X2 AND 2X4	ARMSTRONG	7301: PRELUDE XL15/16" EXPOSED TEE GRID 1940: ULTIMA HIGH NRC, SQUARE LAY-IN, 24" X 24" X 3/4" 1943: ULTIMA HIGH NRC, SQUARE LAY-IN, 24" X 48" X 3/4"	WHITE
FLOORING					
	CPT1	CARPET TILE, FIELD	T.B.D.	T.B.D.	TBD: TBD
	EF1	EPOXY FLOORING SYSTEM	STONHARD	STONSHIELD TEXTURED EPOXY FLOORING	TBD: TBD
	RBT1	RESILIENT RUBBER TILE, FIELD	NORA SYSTEMS, INC.	NORAPLAN GRANO: ART. 1180, 39X39 3.5MM OR SATURA: ART. 1880, 39X39 3.5MM COLD WELD	TBD: TBD
	RBT2	RESILIENT RUBBER TILE, ACCENT	NORA SYSTEMS, INC.	NORAPLAN GRANO: ART. 1180, 39X39 3.5MM OR SATURA: ART. 1880, 39X39 3.5MM COLD WELD	TBD: TBD
PAINT					
	P1	PAINT, ACCENT	DUNN EDWARDS	REFER TO SPECIFICATIONS FOR PAINT SYSTEM	TBD: TBD
	P2	PAINT, ACCENT	DUNN EDWARDS	REFER TO SPECIFICATIONS FOR PAINT SYSTEM	TBD: TBD
	P3	PAINT, ACCENT	DUNN EDWARDS	REFER TO SPECIFICATIONS FOR PAINT SYSTEM	TBD: TBD
	P4	PAINT, ACCENT	DUNN EDWARDS	REFER TO SPECIFICATIONS FOR PAINT SYSTEM	TBD: TBD
	P5	PAINT, ACCENT	DUNN EDWARDS	REFER TO SPECIFICATIONS FOR PAINT SYSTEM	TBD: TBD
	P6	PAINT, ACCENT	DUNN EDWARDS	REFER TO SPECIFICATIONS FOR PAINT SYSTEM	TBD: TBD
	P7	PAINT, ACCENT	DUNN EDWARDS	REFER TO SPECIFICATIONS FOR PAINT SYSTEM	TBD: TBD
	P8	PAINT, ACCENT, TRIM & DOORS	DUNN EDWARDS	REFER TO SPECIFICATIONS FOR PAINT SYSTEM	TBD: TBD
TILE					
	MTL1	METAL TRIM PIECE, TILE, BASE & VERTICAL OUTSIDE CORNER PROFILES	SCHLUTER	PROFILE: 9/32" DILEK-EBHK U7/07 OUTSIDE CORNER: A/EBHK 2 R18 INSIDE CORNER, 90, 2-WAY: I/EBHK 2 R18 INSIDE CORNER, 90, 3-WAY: I/EBHK 3 R18 OUTSIDE CORNER, 135: E135/EBHK2R18 INSIDE CORNER, 135: I135/EBHK2R18 CONNECTOR: V/EBHK END CAP: E/HKW/G VERTICAL OUTSIDE CORNER: QUADEC: Q 60 EB	BRUSHED STAINLESS STEEL
	MTL2	METAL TRIM PIECE, TILE, WAINSCOT TOP CAP	SCHLUTER	SHIENE: E 60 EB	BRUSHED STAINLESS STEEL

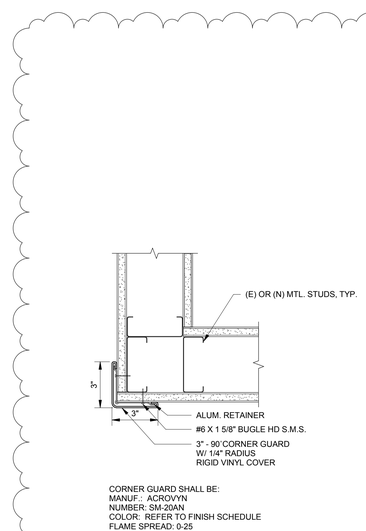
1

FINISH SYMBOL LEGEND

- (E) (N) — INDICATES EXTENT OF EXISTING (E) & NEW (N) FLOORING
- INDICATES MATERIAL FINISH
- P — INDICATES PAINT FINISH
- RS — INDICATES FLOORING FINISH
- FLOORING \ INSTALLATION — INDICATES DIRECTION OF FLOORING INSTALLATION
- FLOORING \ INSTALLATION — INDICATES QUARTER TURN FLOORING INSTALLATION
- TYPE / W H D / COMMENTS — INDICATES CASEWORK TYPE & DIMENSIONS
- NO (N) PAINT OR (N) FLOORING, SEE PLAN

GENERAL FINISH NOTES

1. REFER TO ID2.0, INTERIOR ELEVATIONS, AND SPECIFICATIONS FOR FINISH INFORMATION AND ADDITIONAL INFORMATION ON SUBSTRATE PREP WORK & REQUIRED TESTING PRIOR TO FINISHES INSTALLATION.
2. NOTIFY ARCHITECT OF ANY IN THE FIELD DISCREPANCIES PRIOR TO FINISHES INSTALLATION.
3. GENERAL CONTRACTOR AND SUB-CONTRACTORS TO VERIFY LEAD TIMES ON ALL PRODUCTS IMMEDIATELY UPON PROJECT AWARDMENT. SOME PRODUCTS REQUIRE 6-12 WEEKS LEAD TIME AND SUBSTITUTIONS ARE NOT ALLOWED, UON.
4. ALL INTERIOR FINISHES SHALL BE CLASS A FIRE RATED.
5. ALL WALLS SHALL RECEIVE PAINT P1, UON. REFER TO PAINT PLANS.
6. ALL GYPSUM BOARD WALLS, SOFFITS, & CEILINGS SHALL RECEIVE EGG-SHELL FINISH, UON.
7. ALL METAL DOORS & FRAMES & WINDOW FRAMES TO RECEIVE P8 IN SEMI-GLOSS FINISH, UON.
8. SHOWER STALLS & TOILET ROOMS SHALL RECEIVE EPOXY WALL PAINT FINISH, UON.
9. ALL WALLS SHALL RECEIVE PAINT FINISH PRIOR TO INSTALLATION OF CEILING GRID'S PERIMETER WALL TRIM. CEILING GRIDS SHALL RECEIVE THE FOLLOWING TILES PER ROOM TYPE:
   A. ALL AREAS SHALL RECEIVE ACT1, UON.
   B. COURTROOM SHALL RECEIVE ACT2.
10. TOP SET RUBBER WALL BASE SHALL BE B1, UON, REFER TO INTERIOR ELEVATIONS & FINISH SCHEDULE. SHOWER/ TOILET ROOMS SHALL RECEIVE 8" EPOXY INTEGRAL COVED BASE, SEE DETAIL 9/ID2.0.
11. ALL FLOORING TRANSITIONS TO BE FLOATED, LEVEL, & FLUSH. CONTRACTOR TO ENSURE THAT SLOPE DOES NOT EXCEED 2% IN EITHER DIRECTION. WHERE FLOOR JOINTS OCCUR @ DOORWAYS JOINT SHALL BE @ CL OF DOOR AND COMPLETELY HIDDEN FROM VIEW WHEN DOOR IS IN THE CLOSED POSITION. SEE DETAIL 15/-.
12. ALL CURVED FLOORING PATTERN ARCS ARE TO BE EASED AND SMOOTH IN APPEARANCE AND LASER FABRICATED. COMPLICATED FLOOR PATTERNS ARE NOT TO BE CUT IN THE FIELD BY HAND. COLD WELD ALL COLOR TRANSITIONS.
13. FOR ESTIMATING PURPOSES INCLUDE MULTIPLE PATTERN/ ACCENT COLORS FOR FLOORING AND PAINT.
14. FLOORING & BASE TO CONTINUE UNDER OPEN CASEWORK.

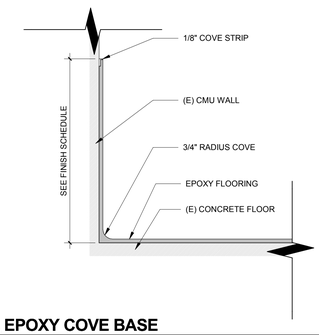


15 **INTERIOR THRESHOLD TYPES** — 6" = 1'-0"

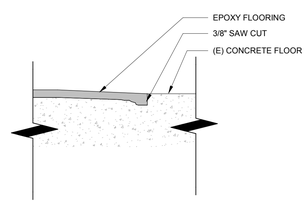
CORNER GUARD SHALL BE:
MANUF.: ACROVYN
NUMBER: SM-20AN
COLOR: REFER TO FINISH SCHEDULE
FLAME SPREAD: 0-25

1

20 **CORNER GUARD 3x3 90˚ ANGLE** — 3" = 1'-0"



9 **EPOXY COVE BASE** — 6" = 1'-0"



10 **EPOXY KEYED EDGE** — 6" = 1'-0"

SAN BENITO COUNTY — ESTABLISHED 1874 — HOLLISTER

Revisions			
No.	Revisions	By	Date Appr.
1	Owner Revision		2/22/18

BID DOCUMENTS

ISSUE DATE: 10/27/2017 BY: KY

Architect/Engineer Of Record:

LICENSED ARCHITECT — KEY YAMAUCHI — C-26566 — 02-28-2019 RENEWAL DATE — STATE OF CALIFORNIA

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530.758.1270 tel ¦ 530.758.4789 fax

HY Architects Project number: 4996

Facility

SAN BENITO JUVENILE HALL
708 FLYNN RD
HOLLISTER, CA 95023

Project

SAN BENITO COUNTY RENOVATION PROJECT

Sheet Title

INTERIOR FINISH SCHEDULE

Client Project Number: Client Proj. #

Scale: As indicated
Drawn By: Author
Checked By: Checker
Issue Date: 10/27/2017
Revit Version: 2017

Sheet

ID2.0

4/4/2018 2:43:35 PM C:_REVIT_LOCAL\54996 San Benito County Juvenile Hall_R17_sheitz.rvt

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

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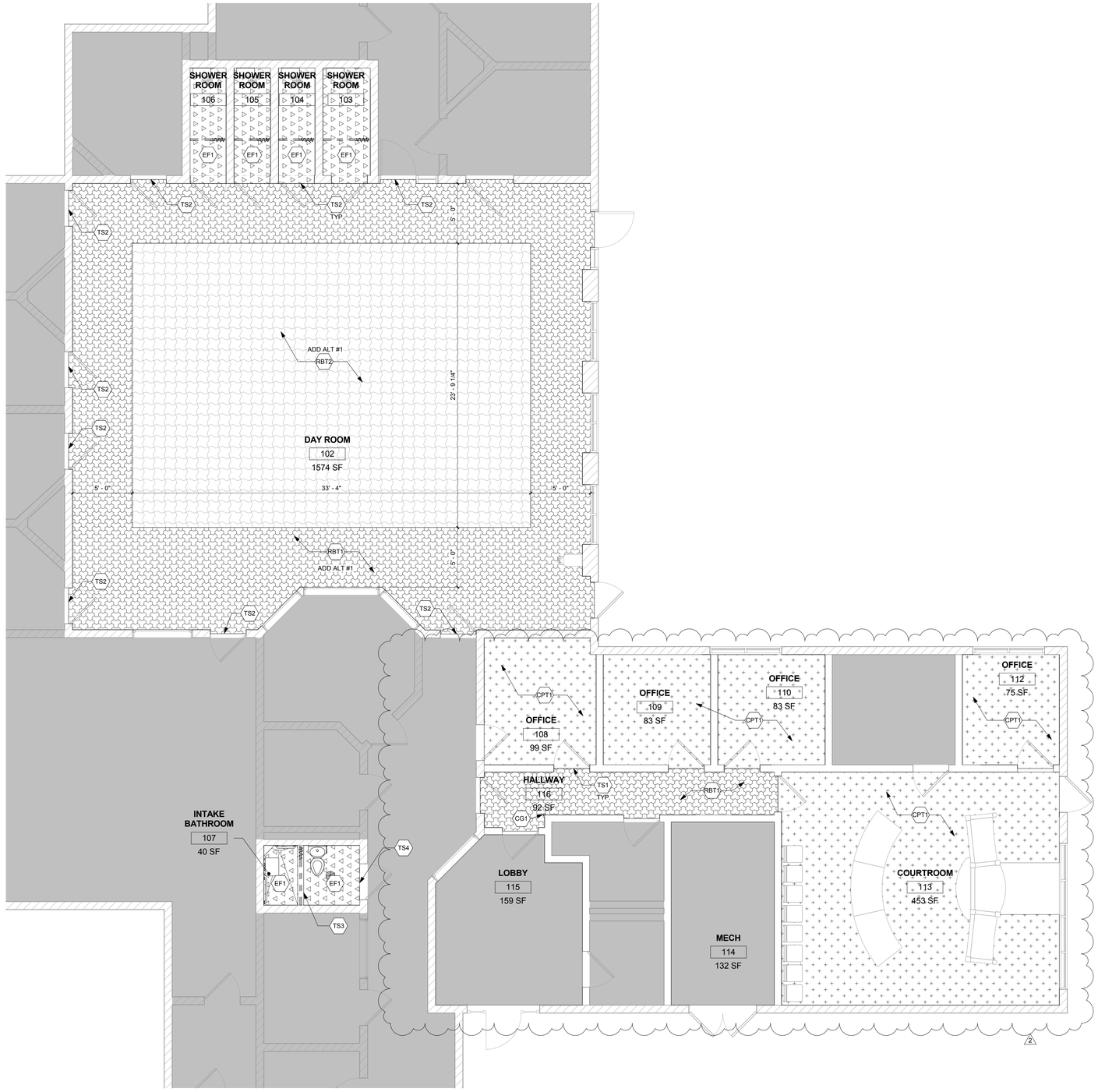

1 FIRST FLOOR PLAN - FLOORING PLAN

1/4" = 1'-0"

GENERAL FINISH NOTES

1. REFER TO ID2.0 FOR GENERAL FINISH NOTES & FINISH SCHEDULE.
2. ALL DIMENSIONS TO (E) WALLS TO BE V.I.F.
3. PAINT ALL WALLS P1, UON.

FINISH SYMBOL LEGEND

(E) — (N)	INDICATES EXTENT OF EXISTING (E) & NEW (N) FLOORING
	INDICATES MATERIAL FINISH
P	INDICATES PAINT FINISH
RS	INDICATES FLOORING FINISH
FLOORING INSTALLATION	INDICATES DIRECTION OF FLOORING INSTALLATION
FLOORING INSTALLATION	INDICATES QUARTER TURN FLOORING INSTALLATION
TYPE W H D COMMENTS	INDICATES CASEWORK TYPE & DIMENSIONS
	NO (N) PAINT OR (N) FLOORING, SEE PLAN

SAN BENITO COUNTY — HOLLISTER — ESTABLISHED 1874

Revisions

No.	Revisions	By	Date	Appr.
2	Backcheck 01		2/22/18	

BID DOCUMENTS

ISSUE DATE: 10/27/2017 BY: KY

Architect/Engineer Of Record:

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HY Architects Project number: 4996

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Project

SAN BENITO COUNTY RENOVATION PROJECT

Sheet Title

FIRST FLOOR PLAN - FLOORING PLAN

Client Project Number: Client Proj. #

Scale: As indicated
Drawn By: Author
Checked By: Checker
Issue Date: 10/27/2017
Revit Version: 2017

Sheet

ID2.1

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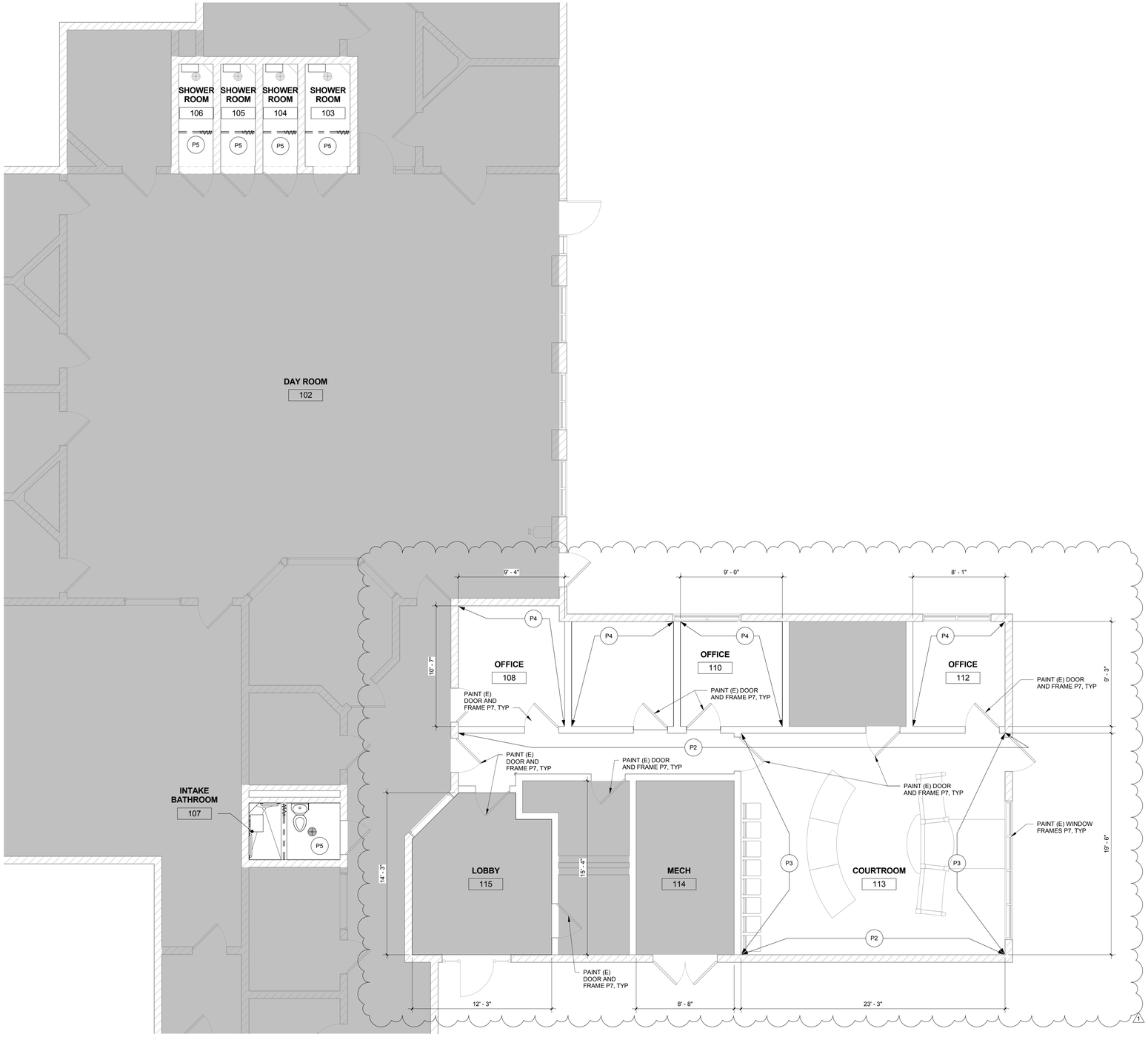

1 FIRST FLOOR PLAN - PAINTING PLAN

1/4" = 1'-0"

GENERAL FINISH NOTES

1. REFER TO ID2.0 FOR GENERAL FINISH NOTES & FINISH SCHEDULE.
2. ALL DIMENSIONS TO (E) WALLS TO BE V.I.F.
3. PAINT ALL WALLS P1, UON.

FINISH SYMBOL LEGEND

- (E) — (N): INDICATES EXTENT OF EXISTING (E) & NEW (N) FLOORING
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- TYPE / W | H | D / COMMENTS: INDICATES CASEWORK TYPE & DIMENSIONS
- NO (N) PAINT OR (N) FLOORING, SEE PLAN

SAN BENITO COUNTY — HOLLISTER — ESTABLISHED 1874

Revisions

No.	Revisions	By	Date	Appr.
1	Owner Revision		2/22/18	

BID DOCUMENTS

ISSUE DATE: 10/27/2017 BY: KY

Architect/Engineer Of Record:

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HY Architects Project number: 4996

Facility

SAN BENITO JUVENILE HALL
708 FLYNN RD
HOLLISTER, CA 95023

Project

SAN BENITO COUNTY RENOVATION PROJECT

Sheet Title

FIRST FLOOR PLAN - PAINT PLAN

Client Project Number: Client Proj. #

Scale: As indicated
Drawn By: Author
Checked By: Checker
Issue Date: 10/27/2017
Revit Version: 2017

Sheet

ID2.2

4/4/2018 2:43:39 PM C:_REVIT_LOCALS\4996 San Benito County Juvenile Hall_R17_sretz.rvt

0 5' 50' GRAPHIC SCALES: 1/16" = 1'-0"
0 5' 25' 1/8" = 1'-0"
0 1' 12' 1/4" = 1'-0"
0 1' 6' 1/2" = 1'-0"
0 4' 3/4" = 1'-0"
0 1' 3' 1" = 1'-0"
0 2' 1 1/2" = 1'-0"
0 1' 3" = 1'-0"

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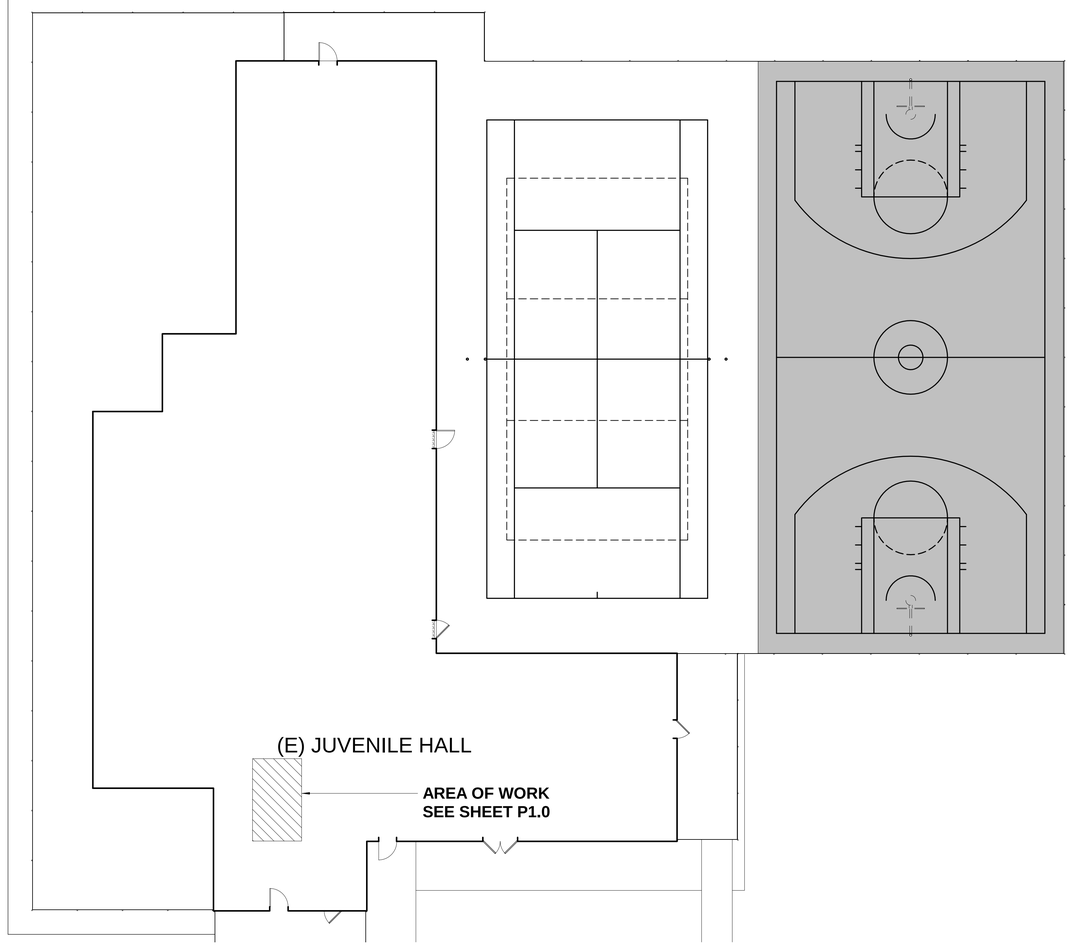

1 PLUMBING PARTIAL SITE PLAN
1" = 10'-0"

SYMBOLS & ABBREVIATIONS (PLUMBING)

	BALANCING COCK
	BALL VALVE
	CAP
	CHECK VALVE
	CLEANOUT
A	COMPRESSED AIR PIPING (E)
D	DEIONIZED WATER (EXISTING)
	DOMESTIC COLD WATER (EXISTING)
	DOMESTIC COLD WATER (NEW)
	DOMESTIC HOT WATER (EXISTING)
	DOMESTIC HOT WATER (NEW)
	DOMESTIC HOT WATER RETURN (EXISTING)
	DOMESTIC HOT WATER RETURN (NEW)
	DIRECTION OF FLOW
DSP	DRY STANDPIPE
FL	FIRE SPRINKLER PIPING
	FLANGED UNION
	FLOOR DRAIN
	FLOOR SINK
FM	FORCE MAIN
G	GAS PIPING (EXISTING)
G	GAS PIPING (NEW)
	GAS COCK
	GATE VALVE
	GLOBE VALVE
HPG	HIGH PRESSURE GAS PIPING
	HOSE BIBB (3/4" MIN.)
LPG	LIQUID PETROLEUM GAS PIPING (EXISTING)
LPG	LIQUID PETROLEUM GAS PIPING (NEW)
O2	OXYGEN PIPING (EXISTING)
O2	OXYGEN PIPING (NEW)
	PETES PLUG
	PIPE (ABOVE THE CEILING)
	PIPE HANGER
	PIPE TURNING UP (RISE)
	PIPE TURNING DOWN (DROP)
	PIPE TEE DOWN
	PRESSURE REDUCING VALVE
	T & PRV RELIEF VALVE
	POINT OF CONNECTION TO EXISTING
RWL	RAIN WATER LEADER (EXISTING)
RWL	RAIN WATER LEADER
	REDUCER
	ROOF DRAIN
SD	STORM DRAIN (EXISTING)
SD	STORM DRAIN (NEW)
	STRAINER
	SUB-SOIL PIPING
	UNION
VAC	VACUUM PIPING (EXISTING)
VAC	VACUUM PIPING (NEW)
	VENT PIPING (EXISTING)
	VENT PIPING (NEW)
AV	ACID VENT
	WASTE PIPING (EXISTING)
	(N) WASTE PIPING (ABOVE FLOOR)
	WASTE PIPING UNDERGROUND (NEW)
GW	GREASE WASTE (EXISTING)
GW	GREASE WASTE (NEW)
WSP	WET STANDPIPE (EXISTING)
WSP	WET STANDPIPE (NEW)
	WATERHAMMER ARRESTOR (WHA)
	TRAP PRIMER (TP)

AFCO	ACID FLOOR CLEANOUT
AFD	ACID RESISTANT FLOOR DRAIN
AFF	ABOVE FINISH FLOOR
AGCO	ACID GRADE CLEANOUT
AP	ACCESS PANEL
AV	ACID VENT
AVTR	ACID VENT THRU ROOF
AW	ACID WASTE
AWCO	ACID WALL CLEANOUT
BV	BALL VALVE
CA	COMPRESSED AIR PIPING
CB	CATCH BASIN
CD	CONDENSATE
CFH	CUBIC FEET PER HOUR
CI	CAST IRON
CP	CHROME PLATED
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
DCV	DETECTOR CHECK VALVE
DN	DOWN
DS	DOWN SPOUT
DSP	DRY STAND PIPE
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR
EL	ELEVATION
(F)	FIRE SPRINKLER PIPING
FC	FLEX CONNECTOR
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FL	FIRE LINE
FM	FORCE MAIN
FS	FLOOR SINK
FSC	FIRE SPRINKLER CONTRACTOR
GC	GENERAL CONTRACTOR
GCO	GROUND CLEANOUT
GPM	GALLONS PER MINUTE
GW	GREASE WASTE
HB	HOSE BIBB
HPG	HIGH PRESSURE GAS
HWS	HOT WATER SUPPLY
IE:	INVERT ELEVATION
LAV	LAVATORY
LPG	LOW PRESSURE GAS
MC	MECHANICAL CONTRACTOR
NPW	NON POTABLE WATER
(N)	NEW
OFD	OVERFLOW DRAIN
O2	OXYGEN
PC	PLUMBING CONTRACTOR
PIV	POST INDICATION VALVE
POC	POINT OF CONNECTION
POD	POINT OF DEMOLITION
PP	PETES PLUG
PRV	PRESSURE REDUCING VALVE
PVC	POLYVINYL CHLORIDE PIPE
RD	ROOF DRAIN
RPBFP	BACKFLOW PREVENTOR REDUCED PRESSURE
RWL	RAIN WATER LEADER
SD	STORM DRAIN
SDCW	SOFT DOMESTIC COLD WATER
SDHW	SOFT DOMESTIC HOT WATER
SOV	SHUTOFF VALVE
SS	SANITARY SEWER
TP	TRAP PRIMER
V	VENT
VB	VALVE BOX
VAC	VACUUM
VIF	VERIFY IN FIELD
VTR	VENT THRU ROOF
W	WASTE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WATER HEATER
WHA	WATER HAMMER ARRESTOR
WM	WATER METER

GENERAL PLUMBING NOTES

1. ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE 2016 CALIFORNIA PLUMBING CODE AND ALL OTHER APPLICABLE CODES AND REGULATIONS, INCLUDING THE CALIFORNIA ENERGY CONSERVATION STANDARDS OF TITLE 24.
2. PLATFORMS, CURBS AND FLASHING FOR EQUIPMENT SHALL BE AS INDICATED ON THE STRUCTURAL AND ARCHITECTURAL PLANS. COORDINATE THE EXACT SIZES OF REQUIRED OPENINGS AND SUPPORT FOR THE FURNISHED EQUIPMENT.
3. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
4. PIPES SHALL BE SUPPORTED AND BRACED PER SMACNA "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS."
5. COORDINATE PLUMBING SYSTEMS WITH WORK OF OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS AS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
6. EXPOSED PIPING ALLOWED ONLY WHERE INDICATED. PROVIDE ESCUTCHEONS IN FINISHED AREAS.
7. MAINTENANCE LABEL SHALL BE AFFIXED TO ALL PLUMBING EQUIPMENT.
8. PROVIDE ROUGH-IN AND FINAL CONNECTIONS FOR EQUIPMENT PROVIDED UNDER OTHER DIVISIONS OF THE SPECIFICATIONS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF EQUIPMENT.
9. PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED BY AN APPROVED MATERIAL AS PRESCRIBED IN IBC STANDARD 712.
10. REFER TO STRUCTURAL DRAWING FOR LOCATIONS OF BEAMS, SHEAR WALLS AND MEMBERS. ALL DRILLING OF STRUCTURAL BEAMS AND MEMBERS TO BE COORDINATED WITH THE STRUCTURAL ENGINEER. ALL HOLES SHALL BE MINIMUM SIZE AND APPROVED BY STRUCTURAL ENGINEER PRIOR TO DRILLING.
11. FIELD VERIFY LOCATION AND SIZE OF ALL EXISTING PIPING, DUCTWORK AND EQUIPMENT PRIOR TO FABRICATION OF ANY NEW WORK.
12. ALL WATER CLOSET CONTROLS SHALL BE ON THE SIDE OF THE FIXTURE AWAY FROM THE WALL.
13. ALL FAUCET CONTROLS SHALL BE OPERABLE WITH THE HAND AND SHALL NOT REQUIRED TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST.
14. PC SHALL PROVIDE CONCRETE INSERTS FOR HANGING PLUMBING EQUIPMENT, COORD W/ GC.

DRAWING INDEX

PLUMBING FIXTURE CONNECTIONS SCHEDULE

SYMBOL	DESCRIPTION	MINIMUM BRANCH SIZE					TRAP	REMARKS
		WASTE	VENT	CW	HW	G		
WC-1	WATER CLOSET WITH LAVATORY FIXTURE: ACORN # 1418FA-2-FMT-CW (1.28GPF) HOT & COLD WATER, SEAT "HPS" NO. 7 FINISH, FLUSH-MTPFV (MASTER TROL ELECTRONIC FLUSH VALVE	4"	2"	1"	1/2"	-	INT.	FLOOR MOUNTED SECURITY FIXTURE-WALL OUTLET HOT AND COLD WATER TO LAVATORY CONNECTION
SH-1 SHOWER W/ CHROME FLOOR DRAIN	ACORN # 4208-W-RD WITH ADDITIONAL HEAD AT ADA HEIGHT DRAIN J.R. SMITH # 2050T (THREADED)-4-PB-MPT (1.6 GPM)	2"	1-1/2"	3/4"	3/4"	-	2"	- VANDAL PROOF SCREWS - ROUGH BRASS FINISH. - CONTRACTOR TO BID ONE SHOWER HEAD AT ADA HEIGHT AND ONE AT NORMAL HEIGHT. - MAX. FLOW 2GPM AND SINGLE TEMP. 120°F.
FD-2	TOILET FLOOR DRAIN FIXTURE: J.R. SMITH # 2010T (THREADED)-4-PB	2"	1-1/2"	-	-	-	2"	VANDAL PROOF SCREWS & TRAP PRIMER CONNECTION
TP-1	TRAP PRIMER FIXTURE: PPP PRIMER MOUNTED ABOVE CEILING W/ 1/2" CW TO FD-2 TRAP CONNECTION	-	-	1/2"	-	-	2"	

2

Revisions

No.	Revisions	By	Date	Appr.
1	OWNER REVISIONS		01/24/18	
2	BACKCHECK 01		02/20/18	

BID DOCUMENTS

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Mechanical Consultants
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www.listengineering.com © LEC 2016
JOB NO.P17037

Architect/Engineer Of Record

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HY Architects Project number: 4996

Facility

SAN BENITO COUNTY
708 FLYNN RD
HOLLISTER, CA 95023

Project

SAN BENITO COUNTY RENOVATION PROJECT

Sheet Title

PLUMBING - TITLE SHEET, SCHEDULES, SPECIFICATIONS & SITE PLAN

Client Project Number:

Scale: As indicated
Drawn By: RM
Checked By: JB
Issue Date: Issue Date
Revit Version: 2017

Sheet **P0.1**

4/4/2018 7:05:59 AM C:\Users\rigoberto.LIST\Documents\4996 San Benito County Juvenile Hall_R17_LEC_CENTRAL_rigoberto.rvt

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

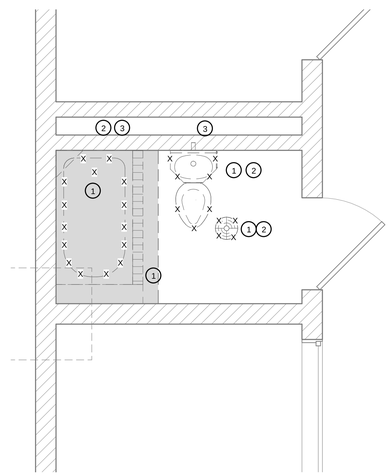
IF THIS SHEET IS NOT 30"x42" , IT IS
A REDUCED PRINT SCALE ACCORDINGLY

SHEET NOTES (PARTIAL FLOOR PLAN 2 & 3)

1. CONNECT NEW 2" ø VENT TO (E) 3" ø VTR WITH FULL SIZE TEE.
2. CONNECT NEW 4" ø WASTE FROM WC-1 AND 2" WASTE FROM LAVATORY TO (E) WASTE WITH NEW FULL SIZE TEE WYE BELOW FLOOR.
3. (E) PIPING.
4. CONNECT NEW LAVATORY WASTE TO (N) 4" ø WASTE AS PART OF NEW FIXTURE COMBO.
5. CONNECT NEW 1-1/2" VENT TO (E) 3" ø VENT WITH NEW TEE ABOVE CEILING.
6. INSTALL NEW FLOOR DRAIN FD-1 TO EXISTING WASTE BELOW FLOOR WITH NEW TRAP AND VENT 1 1/2"ø CONNECT TO (E) VENT IN WALL WITH NEW TEE (WHEN TILE IS REMOVED FROM THE SHOWER).
7. ABOVE THE CEILING.
8. CONNECT TO FLUSH VALVE WITH 1"ø CW FROM (E) CAPPED 1-1/2" DCW.
9. CONNECT 1/2"ø CW & 1/2"ø HW FROM CAPPED PIPING TO LAVATORY NEW STOPS AND SUPPLY ABOVE CEILING.
10. CONNECT (N) 3/4"ø CW & (N) 3/4"ø HW FROM CAPPED PIPING TO SHOWER CONTROLS AND HEAD NEW STOPS AND SUPPLY ABOVE CEILING.
11. TRAP PRIMER ABOVE CEILING W/ 1/2" CW TO FD-2 TRAP CONNECTION.
12. INSTALL AND CONNECT NEW FD-2 TO EXISTING 2" WASTE BELOW FLOOR.
13. BELOW FLOOR.

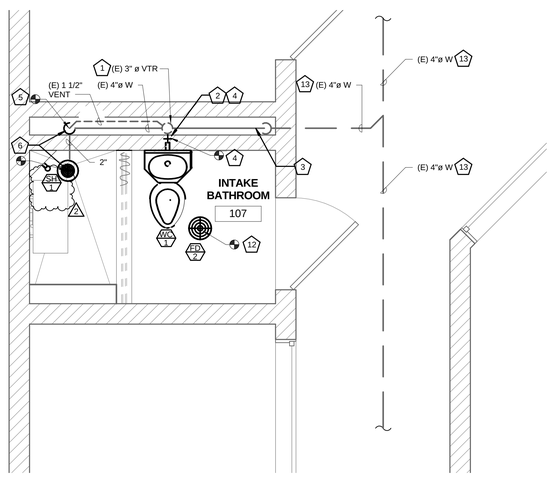
DEMO SHEET NOTES (PARTIAL FLOOR PLAN 1)

1. REMOVE FIXTURES.
2. CAP WASTE & VENT IN WALL., FLOOR, AND ABOVE CEILING.
3. CAP WATER ABOVE CEILING.



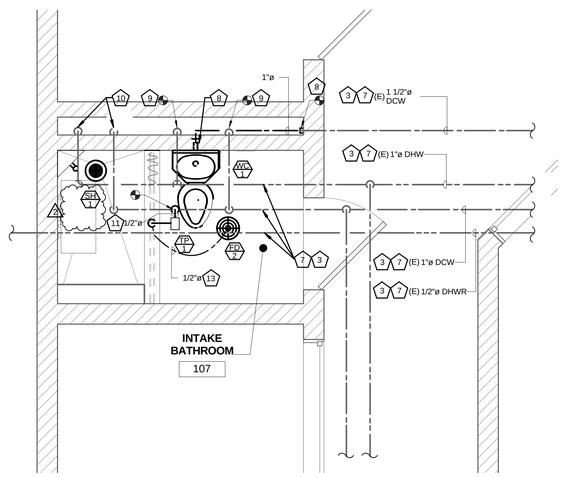
1 PLUMBING -RESTROOM DEMO ENLARGE PLAN
1/2" = 1'-0"

NORTH



2 PLUMBING - FIRST LEVEL WASTE ENLARGE PLAN
1/2" = 1'-0"

NORTH



3 PLUMBING - FIRST LEVEL WATER ENLARGE PLAN
1/2" = 1'-0"

NORTH

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Facility

SAN BENITO COUNTY
708 FLYNN RD
HOLLISTER, CA 95023

Project

SAN BENITO COUNTY
RENOVATION PROJECT

Sheet Title

PLUMBING - FIRST LEVEL ENLARGE PLAN

Client Project Number:

Scale: As indicated
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Issue Date: Issue Date
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Sheet
P1.0

0 5' 50' GRAPHIC SCALES: 1/16" = 1'-0"
0 5' 25' 1/8" = 1'-0"
0 1' 12' 1/4" = 1'-0"
0 1' 6' 1/2" = 1'-0"
0 4' 3/4" = 1'-0"
0 1' 3' 1" = 1'-0"
0 2' 1 1/2" = 1'-0"
0 1' 3" = 1'-0"

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY

Section 26 00 00

PART 1 - GENERAL

1.01 SUMMARY

A. The intent of Division 26, Specifications and Drawings is to reconstruct the facility with complete systems as shown, specified and required by applicable codes. Include all work specified in these Specifications and shown on the Drawings.

B. The Division 26 Specifications and Drawings are complementary; what is called for by one is binding, as if called for by both. Items shown on the Drawings are not necessarily included in the Specifications and vice versa.

C. Use the more stringent requirement when specified materials or methods exceed the applicable code standards.

D. The Drawings that accompany the Division 26 Specifications are diagrammatic. They do not show every offset, bend, conduit body, elbow or junction box that may be required to install work in the space provided and avoid conflicts. Follow the Drawing as closely as is practical and install additional bends, offsets and elbows where needed by local job site conditions. Provide necessary junction boxes to meet code regulations for the allowed number of conduit bends. The right is reserved to make minor field order changes within 12 inches in outlet location prior to pre-fabrication/roughing-in without additional cost to the owner.

1.02 APPLICABLE CODES

A. Publications and standards listed below form a part of this specification to the extent referenced. The publications and standards are referred to in the text by basic designation only.

1. 2016 California Building Code - Part 2, Title 24, CCR
2. 2016 California Electrical Code - Part 3, Title 24, CCR
3. 2016 California Energy Code - Part 6, Title 24, CCR
4. 2016 California Fire Code - Part 9, Title 24, CCR
5. Occupational Health and Safety Act (OSHA).
6. All applicable State and Local codes and regulations.

1.03 QUALITY ASSURANCE

A. Nothing in the Contract Documents shall be construed to permit Work not conforming to applicable codes, laws, ordinances, rules or regulations.

B. Provide materials and apparatus that comply with NEC, NEMA and ANSI standards.

C. Provide materials and apparatus that bear the UL label where such label is applicable or nationally recognized testing agency approved by the authority having jurisdiction.

1.04 SITE EXAMINATION

A. Examine the site prior to bidding and become familiar with existing conditions and other factors which may affect the execution of work. Include all related costs in the initial bid proposal.

1.05 GUARANTEE

A. Provide one year guarantee for installed project materials and equipment unless otherwise indicated in other Division 26 Sections. Guarantee period effective from time of work acceptance.

a. Lamps excluded from one year guarantee.

1.06 RECORD DRAWINGS

A. Provide record Drawings that fully represent installed conditions including actual location of outlets, true panel board connections following phase balancing routines, correct conduit and wire sizing as well as routing for feeder and branch homeruns, diagrammatic branch circuit wiring, revised fixture schedule listing actual manufacturer and products installed, and revised panel board schedules.

B. Maintain up to date record set of electrical prints during the course of construction. The prints re subject to monthly review by the owner's representative to ascertain that they are current. If not current, monthly payments may be withheld.

1.07 SUBSTITUTIONS

A. Products or systems listed as "no substitutions": Provide as specified.

B. Products or systems noted as "or equivalent": A product or system of equivalent design, construction and performance will be considered. Submit all pertinent data and product information for review. Provide the specified products or systems if proposed equivalent is found unacceptable.

1.08 EQUIPMENT SUPPORT

A. Perform necessary equipment seismic anchorage in compliance with the California Building Code Title 24, Uniform Building Code and requirements of any local agency having jurisdiction. Support shall be per manufacturer's recommendation for Seismic zone 4.

B. For instances where a pre-approved seismic support detail cannot be used because of field conditions, submit details and calculations signed and stamped by a registered structural engineer in the State of California for approval by the authority having jurisdiction.

C. Once the exact location of all pipes have been established, detailed shop drawings showing the location of all seismic supports, braces, and anchors shall be submitted to the Structural Engineer of Record to verify adequacy of the supporting structure to ensure that the original design is still adequate.

1.09 COORDINATION OF WORK

A. Conduct work in a manner to cooperate with all other trades for proper installation of all items of equipment. Consult the Drawings of all other trades or crafts to avoid conflicts with cabinets, counters, equipment, structural members, in general, the architectural drawings govern but resolve conflicts with the Architect prior to rough-in.

B. Verify the physical dimension of each item of electrical equipment to fit the available space. The Contractor is responsible for coordinating electrical equipment space requirements with the allotted space provisions, and access routes through the construction area.

C. Coordinate rough-in and wiring requirements for all equipment provided by other trades requiring electrical connections. Make installation in accordance with rough-in and wiring diagrams provided for Contractor's use.

D. Coordinate underground work with other contractors working on the site. Perform coordination with contractors installing storm sewer, sanitary sewer, water and irrigation lines, to avoid conflicts. Common trenches may be used with other trades, providing clearances required by codes and ordinances are maintained. To the extent possible, locate electrical conduits and duct banks aside from plumbing and hydronic piping in common trench.

1.10 PROTECTION OF WORK

A. Protect all electrical work and equipment installed under this Division against damage by other trades, weather conditions or any other causes. Equipment found damaged or in other than new condition will be rejected as defective.

B. Keep, luminaires and all electrical equipment covered or closed to exclude dust, dirt and splashes of plaster cement or paint and shall be free of all such contamination before acceptance. Keep enclosures and trims in new condition, free of rust, scratches and other finish defects. If damaged, properly refinish and repaint in a manner acceptable to the Architect.

1.11 DEMOLTION

A. Disconnect, remove or relocate electrical material, equipment and other work noted and required by removal or changes in existing construction.

B. Provide new material and equipment required for relocated equipment.

C. Disconnect load and line end of conductors feeding existing equipment.

D. Remove conductors from existing raceways to be rewired.

E. Remove conductors and cap outlets on raceways to be abandoned.

F. Cut and cap abandoned floor raceways flush with concrete floor or behind walls and ceilings.

G. Remove conductors back to nearest power source; junction box or panel board.

H. Provide new type written panel board directories.

I. Dispose of removed raceways and wire.

J. Turn over removed electrical equipment to Owner as directed. Dispose of unwanted equipment and accessories.

K. Fluorescent lamps and ballasts must be properly recycled.

1.12 INSTALLATION

A. Provide a complete properly operating system for each item of equipment called for under this work. Installation in accordance to equipment manufacturer's instructions, the best industry practices and the contract documents.

B. Make installation in a neat, finished and safe manner, according to the latest published NECA Standard of Installation under competent supervision.

C. Verify all dimensions by field measurements.

D. Coordinate the installation of required supporting devices and sleeves to be set in poured-in place concrete and other structural components as they are constructed.

E. Install systems, materials, and equipment to comply with approved submittal data, including coordination drawings, to greatest extent possible. Comply with arrangements indicated by the Contract Documents, recognizing that portions of the work are shown only in diagrammatic form. Where coordination requirements conflict with individual system requirements refer conflict to the Architect.

F. Install systems, materials, and equipment level and plumb, parallel and perpendicular to other building systems and components, where installed exposed in finished spaces.

G. Coordinate electrical systems, equipment, and materials installations with other building components.

H. Install new work and connect to existing work with minimum interference to existing facilities.

I. Connect new work to existing work in neat and acceptable manner.

J. Restore existing disturbed work to original condition including maintenance of wiring and continuity as required.

PART 2 - PRODUCTS

2.01 CONDUIT

A. FLEXIBLE METAL CONDUIT:

a. Interlocked galvanized steel construction.

b. Fittings: ANSI/NEMA FB 1; all steel fittings, insulated throat connectors.

2.02 SUPPORT DEVICES

A. CONDUIT SUPPORTS:

d. Dry Location: Galvanized steel straps and hangers, OZ/Gedney, T&B, Minerallac or equivalent.

B. ANCHORS:

a. Solid Masonry: Zinc plated carbon steel expasion anchors, Hilti Kwik Bolt series or equivalent.

b. Hollow Masonry: Plated steel screw expansion anchor, Molly Bolt or equivalent.

c. Concrete surface: Self drilling anchors, or powder driven studs.

d. Metal surface: Machine screws, bolts, or welded studs.

e. Wood surface: Wood screws, lag bolts.

2.03 WIRE AND CABLE

A. Wire Color:

a. 208Y/120V, 3 Phase, 4 wire system:

1. Phase A - Black
2. Phase B - Red
3. Phase C - Blue
4. Neutral - White
5. Ground - Green

b. 480Y/277V, 3 Phase, 4 Wire system:

1. Phase A - Brown
2. Phase B - Orange
3. Phase C - Yellow
4. Neutral - Grey
5. Ground - Green

B. Copper conductors rated for 600 Volt and 90 Degree Celcius.

C. THWN-2 Insulation.

2.04 WIRE CONNECTIONS

A. Binding post terminal: For #10 AWG and smaller conductors, compression type, nylon, self-insulated grip spade lugs, 3M, T&B, Panduit or equivalent.

B. Wire Splices: For #10 AWG and smaller conductors, twist on solderless, insulated spring connectors, 3M, T&B, or equivalent.

2.05 BOXES

A. Standard Outlet Box:

a. Galvanized, one-piece die formed or drawn steel, knock-out type of size and configuration best suited to the application or as per drawings.

b. For duplex receptacle, provide boxes not less than 4 inch square by 1-1/2 inch deep.

c. For quadplex receptacle, provide boxes not less than 4-11/16 inch square by 1-1/2 inch deep.

d. Telecommunication boxes: No less than 4-11/16 inch square by 2-1/8 inch deep.

e. Lighting Fixtures: 4 inch octagon by 2-1/8 inch deep, minimum.

f. ANSI/NEMA OS 1.

2.06 LIGHTING FIXTURES

A. Provide lighting fixtures per plans and luminaire schedule with factory installed wiring.

B. Provide suspended lighting fixtures with all parts necessary to meet California Seismic Safety Standards.

2.07 LIGHTING CONTROLS

A. Provide lighting controls meeting California Title 24, Part 6 Energy Code requirements and are certified for Title 24 lighting commission.

PART 3 - EXECUTION

3.01 CONDUIT

A. Install all wiring in conduit. Coordinate location of conduit with other divisions.

B. FLEXIBLE METAL CONDUIT:

a. Suitable for connection to devices requiring flexible connections in dry locations. Length not to exceed 6'-0".

C. Conduit supports:

e. Support conduits at intervals not to exceed 10 feet.

f. Support individual conduits with conduit hangers or clamps.

g. Spring steel fasteners may be used to fasten EMT to individual hanger wires, minimum #12 AWG, specifically used to hang conduit only.

h. Support all electrical equipment located in the ceiling space in accordance with CBC Sections 1613A and 1614A.

1. Firmly attach items weighing less than 20 pounds to main cross runners.

e. Seal and fireproof all conduit penetrations in walls requiring protected openings. Use only fire stop material of a tested assembly approved by the California State Fire Marshal.

D. Conduit Bends:

a. No more than (3) 90-degree bends or cumulative amount of bends between boxes.

b. Maximum of 400 feet between boxes minus 100 feet for every 90-degrees of cumulative bends.

3.02 WIRE AND CABLE

A. Identify and color code wire under provisions of Section 2.03A(a). Indentify every conductor at each terminal and boxes with circuit number or other designation indicated.

B. Take all precautions when pulling conductors to avoid damaging the conductors or insulation.

C. Connections:

a. Size lugs in accordance with manufacturer's recommendations terminating wire sizes.

b. For splicing receptacle circuits #10 AWG or smaller use twist-on solderless connectors.

3.03 BOXES

A. Install wall mounted boxes at elevations to accomodate mounting heights as indicated on Drawings.

B. Locate outlet boxes as close to that as indicated on Drawings. Coordinate with other equipment and divisions.

C. Flush mounted boxes; Secure between studs with stamped steel adjustable bar type hangers. Fasten hanger to both studs and both sides of box.

D. Support boxes independently of conduit.

E. Install blank wall plates on pull boxes.

3.04 GROUNDING

A. For conduit carrying circuits at or over 100V provide ground wire bonded at each end to equipment.

B. Permanently and effectively ground all raceways, boxes, supports, lighting fixtures, equipment and other utilization apparatus.

3.05 LIGHTING FIXTURES

A. Install lighting fixtures, ready for operation, per mounting details provied.

B. Clean fixtures prior to final approval.

3.06 LIGHTING CONTROLS

A. Install lighting controls per manufacturers instructions to meet all code requirements.

B. Program controls per Owners requirments while maintaining Title 24 compliance.

C. Instruct Owner Representative and Personnel in proper use and programming of the lighting controls.

END OF SECTION

SHEET INDEX

ELECTRICAL SYMBOL LIST

- JUNCTION BOX, SIZE AS INDICATED OR REQUIRED PER CODE
- SURFACE MOUNTED LUMINAIRE - CEILING
- RECESSED LUMINAIRE - T-BAR CEILING
- SHADED LUMINAIRE DENOTES EMERGENCY EGRESS LIGHT
- EXISTING LUMINAIRE TO REMAIN

LUMINAIRE SUBSCRIPTS:
a,b,c... - LOWER CASE LETTER DENOTES SWITCH LEG
A,B,C... - UPPER CASE LETTER DENOTES LUMINAIRE TYPE, SEE LUMINAIRE SCHEDULE
1,2,3... - NUMBER INDICATES CIRCUIT

- (1) NUMBERED SHEET NOTE TAG
- (1 / E0.1) PLAN OR DETAIL REFERENCE TAG. TOP VALUE DENOTES DETAIL NUMBER. BOTTOM VALUE DENOTES SHEET.

ABBREVIATIONS

A, AMP	AMPERE
AC	ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR
AIC	AMPERES INTERRUPTING CAPACITY
AL	ALUMINUM
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT
CAB	CABINET
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING
CO	CONDUIT ONLY
CT	CURRENT TRANSFORMER
CU	COPPER
DC	DIRECT CURRENT
DIA	DIAMETER
DISC	DISCONNECT
DIST	DISTRIBUTION
(E)	EXISTING
EA	EACH
EC	ELECTRICAL CONTRACTOR
ELEC	ELECTRICAL
EMT	ELECTRICAL METALLIC TUBING
(ER)	EXISTING RELOCATED
FLA	FULL LOAD AMPERES
FT	FOOT OR FEET
G	GROUND
GA	GAUGE
GALV	GALVANIZED
HZ	HERTZ
IMC	INTERMEDIATE METAL CONDUIT
ISO	ISOLATED
J-BOX	JUNCTION BOX
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
LCP	LIGHTING CONTROL PANEL
LT	LIGHT
LV	LOW VOLTAGE
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MFR	MANUFACTURER
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MSB	MAIN SWITCHBOARD
MTD	MOUNTED
MTG	MOUNTING
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NIES	NOT INCLUDED IN ELECTRICAL SCOPE
NL	NIGHT LIGHT
N.O.	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OCP	OVERCURRENT PROTECTION
OFCI	OWNER FURNISHED CONTRACTER INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
OS	OCCUPANCY SENSOR
P	POLE
PB	PULLBOX
PC	PHOTOCELL
PH	PHASE
PNL	PANEL
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
(R)	REMOVE
RCPT	RECEPTACLE
(RE)	RELOCATE EXISTING
RM	ROOM
RMC	RIGID METALLIC CONDUIT
RF	RADIO FREQUENCY
SM	SHEET METAL
SMS	SHEET METAL SCREW
STD	STANDARD
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TC	TIMECLOCK
TEL	TELEPHONE
TP	TAMPERPROOF
TS	TIMESWITCH
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLT
VA	VOLT AMPERE
W	WATT
WP	WEATHERPROOF
XFMR	TRANSFORMER

Revisions

No.	Revisions	By	Date	Appr.
1	OWNER REVISIONS	NWB	2-20-18	NWB

BID DOCUMENTS

ISSUE DATE: 10/27/2017 BY: NB

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WEI Project#: 417-024 Engineering / Commercial / Industrial
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Office (530) 823-3055 • Fax (530) 823-3066

Architect/Engineer Of Record: _____

REGISTERED PROFESSIONAL ENGINEER NATHAN W. BAER E21078 Exp. 03-31-19 ELECTRICAL STATE OF CALIFORNIA

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HY Architects Project number: 4996

Facility

SAN BENITO JUVENILE HALL
708 FLYNN RD
HOLLISTER, CA 95023

Project

SAN BENITO COUNTY RENOVATION PROJECT

Sheet Title

SHEET INDEX, SYMBOL LIST, ABBREVIATIONS, AND ELECTRICAL SPECIFICATIONS

Client Project Number: Client Proj. #

Scale: AS NOTED
Drawn By: RS
Checked By: NB
Issue Date: 10/27/2017
Revit Version: N/A

Sheet

E0.1

8/9/2017 2:02:24 PM C:\REVIT_local\4996 San Benito County Juvenile Hall_R17_rnwalsh.rvt

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STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 1 of 6)
Project Name: San Benito County Juvenile Hall Renovation	Date Prepared: 10-20-17

A. General information

Climate Zone: 4	Conditioned Floor Area: 1618 Unconditioned Floor Area:				
Building Type:	☑ Nonresidential	☐ High-Rise Residential	☐ Hotel/Motel		
☐ Schools	☐ Relocatable Public Schools	☑ Conditioned Spaces	☐ Unconditioned Spaces		
Phase of Construction:	☐ New Construction	☐ Addition	☑ Alteration		
Method of Compliance:	☐ Complete Building	☑ Area Category	☐ Tailored		
Project Address: 2301 Technology Parkway, Hollister, CA 95023					

B. Lighting Compliance Documents (select yes for each document included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.

YES	NO	COMP. DOC.	TITLE
◉	○	NRCC-LTI-01-E	Certificate of Compliance. **All Pages** required on plans for all submittals.
◉	○	NRCC-LTI-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculation. **All Pages** required on plans for all submittals.
◉	○	NRCC-LTI-03-E	Indoor Lighting Power Allowance
○	◉	NRCC-LTI-04-E	Tailored Method Worksheets
○	◉	NRCC-LTI-05-E	Line Voltage Track Lighting Worksheets
○	○	NRCC-LTI-06-E	Indoor Lighting Existing Conditions

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 2 of 6)
Project Name: San Benito County Juvenile Hall Renovation	Date Prepared: 10-20-17

C. Summary of Allowed Lighting Power

Conditioned and Unconditioned space Lighting must not be combined for compliance

	Indoor Lighting Power for Conditioned Spaces		Watts	Indoor Lighting Power for Unconditioned Spaces		Watts
01	**Installed** Lighting NRCC-LTI-01-E, Table H, page 5	+	378	**Installed** Lighting NRCC-LTI-01-E, Table H, page 5	+	
02	Portable Only for Offices NRCC-LTI-01-E, Table G, page 4	+	0			
03	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-	0	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	-	
04	Adjusted **Installed** Lighting Power (row 1 plus row 2 minus row 3)	=	378	**Adjusted Installed** Lighting Power (row 1 minus row 3)	=	0
	Complies ONLY If **Installed** ≤ **Allowed** (Box 04 < Box 05)			Complies ONLY If **Installed** ≤ **Allowed** (Box 04 < Box 05)		
05	**Allowed** Lighting Power Conditioned NRCC-LTI-03-E, page 1 Alterations with replacement luminaires that have at least 50/35%lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2		1618	**Allowed** Lighting Power Unconditioned NRCC-LTI-03-E, page 1 Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2		

D. Declaration of Required Certificates of Installation

Declare by selecting yes for all of the Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Form/Title	
◉	○	NRCI-LTI-01-E - Must be submitted for all buildings	☐ Field Inspector
○	◉	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐ Field Inspector
○	○	NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.	☐ Field Inspector
○	◉	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	☐ Field Inspector
○	◉	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	☐ Field Inspector
○	◉	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	☐ Field Inspector

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 4 of 6)
Project Name: San Benito County Juvenile Hall Renovation	Date Prepared: 10-20-17

G. Installed Portable Luminaires in Offices – Exception to Section 140.6(a)

- This section shall be filled out ONLY for portable luminaires in offices (As defined in §100.1). All other planned portable luminaires shall be documented on next page of this compliance document.
- This section is used to determine if greater than 0.3 watts of portable lighting is planned for any office
- Fill out a separate line for each different office. Small offices that are typical (having the same general and portable lighting) may be grouped together. This allowance shall not be traded between offices having different lighting systems.

Office Portable Luminaire Schedule	Office Installed Portable Luminaire W/ft²							Office Location	Field Inspector	
01	02	03	04	05	06	07	08	09	10	
Complete Luminaire Description (i.e., LED, under cabinet, furniture mounted direct/indirect)	Watts per Luminaire	Number of Luminaires	Installed portable luminaire watts in this office (G02 x G03)	Square Feet of this office	Watts per square foot (G04 / G05)	If G06 ≤ 0.3, enter zero; If G06 > 0.3, (G06-0.3)	(G05 x G07)	Identify Office area in which these portable luminaires are installed	Pass	Fail
			0				0		○	○
			0				0		○	○
			0				0		○	○
			0				0		○	○
			0				0		○	○
Total installed portable luminaire watts that are greater than 0.3 W/ft² per office:								Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 5 of 6)
Project Name: San Benito County Juvenile Hall Renovation	Date Prepared: 10-20-17

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:
☑ **CONDITIONED SPACE** ☐ **UNCONDITIONED SPACE**

H. Indoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule			Installed Watts				Location	Field Inspector [1]	
01	02	03	04		05	06	07	08	
Name or Item Tag	Complete Luminaire Description (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	How wattage was determined: CEC Default from RA3	How wattage was determined: According to §130.6(c)	Number Luminaires	Total Installed Watts in this area (R03 x R05)	Primary Function area in which these luminaires are installed	Pass	Fail
A	2'x4' LED Luminaire, T-Bar	31.5	☐	☑	12	378	Gymnasium Area	○	○
			☐	☐		0		○	○
			☐	☐		0		○	○
			☐	☐		0		○	○
			☐	☐		0		○	○
			☐	☐		0		○	○
			☐	☐		0		○	○
			☐	☐		0		○	○
			☐	☐		0		○	○
INSTALLED WATTS PAGE TOTAL:						378	Enter sum total of all pages into NRCC-LTI-01-E; Page 2	378	

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-E
Indoor Lighting	(Page 6 of 6)
Project Name: San Benito County Juvenile Hall Renovation	Date Prepared: 10-20-17

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Nathan Baer	Documentation Author Signature:
Company: Whittington Electric, Inc.	Signature Date: 10-20-17
Address: 1940 Industrial Drive	CEA Certification Identification (if applicable):
City/State/Zip: Auburn, CA 95603	Phone: 530-523-3055

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
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5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Nathan Baer	Responsible Designer Signature:
Company: Whittington Electric, Inc.	Date Signed: 10-20-17
Address: 1940 Industrial Drive	License: E21078
City/State/Zip: Auburn, CA 95603	Phone: 530-523-3055

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 1 of 3)
Project Name: San Benito County Juvenile Hall Renovation	Date Prepared: 10-20-17

A. Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)

YES	NO	Control Requirements
◉	○	Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9.
○	◉	Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b).
○	◉	One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
○	◉	A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be installed in accordance with Section 130.4(b).
◉	○	All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.
◉	○	All luminaires shall be functionally controlled with manual ON and OFF lighting controls in accordance with Section 130.1(a).
○	◉	General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a)4.
◉	○	The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b).
◉	○	All installed indoor lighting shall be equipped with controls that meet the applicable Shut-OFF control requirements in Section 130.1(c).
○	◉	Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylit zones are shown on the plans.
○	◉	Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e).
○	◉	Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-OFF controls, and demand responsive controls.

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 2 of 3)
Project Name: San Benito County Juvenile Hall Renovation	Date Prepared: 10-20-17

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:
☑ CONDITIONED SPACES ☐ UNCONDITIONED SPACES

B. Mandatory and Prescriptive Indoor Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist

Lighting Control Schedule			Standards Complying With [1] (✓ all that apply, or leave empty if Exempted)							PAF Credit Calculation [2]			✓ if Acceptance Test Required	Field Inspector	
										Watts of Controlled Lighting	PAF	Control Credit (11 x 12)			
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
Location in Building	Type/ Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc...)	# of Units	§130.1(a)	§130.0(b)	§130.1(c)	§130.1(d)	§130.1(e)	§140.6(a)2	§140.6(d)					Pass	Fail
Day Room	Integral Sensor (Dim, Occ, Daylight)	12	•		•					378		0	☐	○	○
												0	☐	○	○
												0	☐	○	○
												0	☐	○	○
												0	☐	○	○
												0	☐	○	○
												0	☐	○	○
Control Credit PAGE TOTAL (Sum of Column 13):												0			
IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column 13):														Enter Control Credit total into NRCC-LTI-01-E; Page 1.	

1. §130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive; §140.6(d) = Additional lighting controls installed to earn a PAF; §140.6(a) = Prescriptive Secondary Sidelit Daylight Controls.
2. Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.

STATE OF CALIFORNIA
INDOOR LIGHTING – LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 01/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-02-E
Indoor Lighting - Lighting Controls	(Page 3 of 3)
Project Name: San Benito County Juvenile Hall Renovation	Date Prepared: 10-20-17

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Nathan Baer	Documentation Author Signature:
Company: Whittington Electric, Inc.	Signature Date: 10-20-17
Address: 1940 Industrial Drive	CEA Certification Identification (if applicable):
City/State/Zip: Auburn, CA	Phone: 530-523-3055

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3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
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Responsible Designer Name: Nathan Baer	Responsible Designer Signature:
Company: Whittington Electric, Inc.	Date Signed: 10-20-17
Address: 1940 Industrial Drive	License: E21078
City/State/Zip: Auburn, CA 95603	Phone: 530-523-3055

SAN BENITO COUNTY — ESTABLISHED 1874 — HOLLISTER — San Benito County Juvenile Hall

Revisions

No.	Revisions	By	Date	Appr.
1	OWNER REVISIONS	NWB	2-20-18	NWB

BID DOCUMENTS
ISSUE DATE: 10/27/2017 BY: NB

Whittington Electric, Inc.
WEI Project#: 417-024 Engineering / Commercial / Industrial
1940 Industrial Drive • Auburn, CA 95603
Office (530) 823-3055 • Fax (530) 823-3066

Architect/Engineer Of Record: _____

REGISTERED PROFESSIONAL ENGINEER — NATHAN W. BAER — E21078 Exp. 03-31-19 — ELECTRICAL — STATE OF CALIFORNIA

HIBSER YAMAUCHI Architects, Inc.
4602 2nd Street, Suite 3
Davis, CA 95618
530.758.1270 tel | 530.758.4789 fax

HY Architects Project number: 4996

Facility
SAN BENITO JUVENILE HALL
708 FLYNN RD
HOLLISTER, CA 95023

Project
SAN BENITO COUNTY RENOVATION PROJECT

Sheet Title
TITLE 24 INDOOR LIGHTING COMPLIANCE FORMS

Client Project Number: Client Proj. #

Scale: AS NOTED
Drawn By: RS
Checked By: NB
Issue Date: 10/27/2017
Revit Version: N/A

Sheet
E0.2

8/9/2017 2:02:24 PM C:\REVIT_Jacobi\4996 San Benito County Juvenile Hall_R17_mwalsh.rvt

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 1 of 4)
Project Name: San Benito County Juvenile Hall Renovation	Date Prepared: 10-20-17

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
☑ CONDITIONED spaces ☐ UNCONDITIONED spaces

A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES

If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts.
If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts

	(a)	(b)
01 Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below on this page)	0	
02 Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below on this page)		1618
03 Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E		0
TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-01, Page 2, Row 1	0	1618

☐ Check here if building contains both conditioned and unconditioned areas.

B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE

01	02		03		04
TYPE OF BUILDING (From §140.6 Table 140.6-B)	WATTS PER ft²	X	COMPLETE BLDG. AREA	=	ALLOWED WATTS
					0
Total Area:					
Total Watts. Enter Total Watts into section A, row 1 (Above on this page)					0

C -1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES

	Watts
Total from section C-2.	1618
Total from section C-3.	0
Total Watts. Enter Total Watts into section A, row 2 (Above on this page).	1618

For Alterations Only – Reduced lighting power option (Total Allowed Watts x 0.85). Enter this value into section A, row 2 if using this option.

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 2 of 4)
Project Name: San Benito County Juvenile Hall Renovation	Date Prepared: 10-20-17

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:
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C -2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE

- Do not include portable lighting for offices. Portable lighting for offices shall be documented only in Section G of NRCC-LTI-01-E.
- Separately list lighting for each primary function area as defined in §100.1 of the Standards.

01		02		03		04
AREA CATEGORY (From §140.6 Table 140.6-C)		WATTS PER ft²	X	AREA (ft²)	=	ALLOWED WATTS
Location in Building	Primary Function Area per Table 140.6-C					
Day Room	Gymnasium	1		1618		1618
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
						0
		TOTALS		1618		
Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance document)						WATTS

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 3 of 4)
Project Name: San Benito County Juvenile Hall Renovation	Date Prepared: 10-20-17

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C-3 AREA CATEGORY METHOD ADDITIONAL LIGHTING WATTAGE ALLOWANCE (from Table 140.6-C Footnotes)

01	02	03 [3]	04	05	06	07
Primary Function	Sq Ft or Linear ft [1]	Additional Watts Allowed	Wattage Allowance (02 x 03)	Description(s) and Quantity of Special Luminaire Types in each Primary Function Area	Total Design Watts [3]	ALLOWED WATTS Smaller of 04 or 06
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
			0			
TOTALS – Enter into TOTAL AREA CATEGORY METHOD ADDITIONAL ALLOWANCES – Section C-1						

1. Use linear feet only for additional allowance for white board or chalk board. All other additional Area Category allowances shall use watts per square foot.
2. Additional watts are available only when allowed according to the footnotes on bottom of Table 140.6-C, which include: Specialized task work; Ornamental lighting; Precision commercial and industrial work; Per linear foot of white board or chalk board; Accent, display and feature lighting; and Videoconferencing studio lighting..
3. Luminaire classification and wattage shall be determined in accordance with §130.0(c) of the Standards.

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-03-E
Certificate of Compliance - Indoor Lighting Power Allowance	(Page 4 of 4)
Project Name: San Benito County Juvenile Hall Renovation	Date Prepared: 10-20-17

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STATE OF CALIFORNIA
INDOOR LIGHTING EXISTING CONDITIONS
CEC-NRCC-LTI-06-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-06-E
Indoor Lighting Existing Conditions	Page 1 of 2
Project Name: San Benito County Juvenile Hall Renovation	Date Prepared: 10-20-17

A. General Information

Project Address: 2301 Technology Parkway, Hollister, CA 95023

B. Existing Luminaire Schedule

Alterations in which replacement luminaires have at least 50/35 percent lower power consumption compared to the original luminaires. (Exceptions to 141.0(b)2III or 141.0(b)2iii)
Fill out **LTI-06**, LTI-01, LTI-02, and LTI-05. Use LTI-06 Table B, to record the information of the original, existing luminaires. Use LTI-01 Table H, to record information of the replacement luminaires, and luminaires with component modifications.

Name of the space with the alteration: Day Room

01	02	03	04		05	06
Name or Item Tag	Luminaire Description	Wattage per Luminaire	How Wattage was Determined: CEC default from NA8	How Wattage was Determined: According to §130.0 (c)	Quantity of Luminaires	Total Wattage (Quantity x Wattage per Luminaire) (03 x 05)
A	2x4 Fluorescent, Two (2) T8F32 RS Lamps, Electronic Ballast NO	62	☐	☐	12	744
					Total Installed Watts:	744

Add Row | Delete Row

141.0(b)2III or 141.0(b)2III: **For alterations using the 50/35 percent power reduction compliance option in Section 141.0(b)2III or 141.0(b)2III,** multiply the **Total Installed Wattage** by a multiplier of 0.50 or 0.65 and enter the adjusted value in the box to the right. Use 0.50 for office, retail, and hotel occupancies. Use 0.65 for all other occupancies. Enter this value in Form NRCC-LTI-01-E, Table C, Cell 05 (Allowed Indoor Lighting Power).	491 Watts

STATE OF CALIFORNIA
INDOOR LIGHTING EXISTING CONDITIONS
CEC-NRCC-LTI-06-E (Revised 04/16) — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTI-06-E
Indoor Lighting Existing Conditions	Page 2 of 2
Project Name: San Benito County Juvenile Hall Renovation	Date Prepared: 10-20-17

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SAN BENITO COUNTY — HOLLISTER — ESTABLISHED 1874

Revisions

No.	Revisions	By	Date	Appr.
1	OWNER REVISIONS	NWB	2-20-18	NWB

BID DOCUMENTS
ISSUE DATE: 10/27/2017 BY: NB

Whittington Electric, Inc.
WEI Project#: 417-024 Engineering / Commercial / Industrial
1940 Industrial Drive • Auburn, CA 95603
Office (530) 823-3055 • Fax (530) 823-3066

Architect/Engineer Of Record: _____

REGISTERED PROFESSIONAL ENGINEER — NATHAN W. BAER — E21078 Exp. 03-31-19 — ELECTRICAL — STATE OF CALIFORNIA

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Project
SAN BENITO COUNTY RENOVATION PROJECT

Sheet Title
TITLE 24 INDOOR LIGHTING COMPLIANCE FORMS

Client Project Number: Client Proj. #

Scale: AS NOTED
Drawn By: RS
Checked By: NB
Issue Date: 10/27/2017
Revit Version: N/A

Sheet
E0.3

8/9/2017 2:02:24 PM C:\REVIT_local\4996 San Benito County Juvenile Hall_R17_mwalsh.rvt

GRAPHIC SCALES: 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1" = 1'-0" | 1 1/2" = 1'-0" | 3" = 1'-0"

IF THIS SHEET IS NOT 30"x42" , IT IS A REDUCED PRINT SCALE ACCORDINGLY

PHILIPS

Installation guide

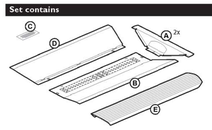
Philips EvoKit LED 2x4 and 2x2

This installation guide is only valid for the following Philips EvoKit models :

Products 2x4	Products 2x2
	

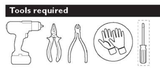
EvoKit				
2x4 P	36L xxW	835	2 0-10 7 G2	
2x2 P	23L	830	1 PM-10	
2x4 P	32L	835	2 0-10	
	36L	840	2 STEP	
	42L		5 PM-10	
	52L			

Set contains



A Side Panel
B LED Panel
C Trofter Label
D Closing Panel
E Diffuser

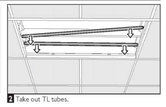
Tools required



⚠WARNING
RISK OF FIRE, ELECTRIC SHOCK OR PERSONAL INJURY
Before installation, turn power off.

Remove host fixture contents

1 Turn power off and take out original cover.



2 Take out TL tubes.

⚠WARNING
FAILURE TO FOLLOW THESE INSTRUCTIONS AND WARNINGS MAY RESULT IN SERIOUS INJURY OR SIGNIFICANT PROPERTY DAMAGE.
For your protection, carefully read these warnings and instructions in their entirety before installing or maintaining this equipment. These instructions do not attempt to cover all installation and maintenance situations. If you do not understand these instructions or if additional information is required, contact your local Philips representative. Retain these instructions for maintenance reference.

⚠WARNING
RISK OF FIRE OR ELECTRIC SHOCK
The EvoKit must be installed and maintained by a professional electrician in accordance with the applicable federal, state and local laws, regulations and electrical codes, and the installation instructions provided in this document. This professional should be familiar with the construction and operation of this product and any hazards involved. If not qualified, do not attempt installation. Contact a qualified electrician.

⚠WARNING
RISK OF FIRE, ELECTRIC SHOCK OR PERSONAL INJURY
Do not install in a damaged fixture.
Install the EvoKit only in NEMA type G or Type NFG t-grids with a minimum trofter depth of 3".
Before installation, turn power off.

⚠WARNING
RISK OF PERSONAL INJURY
This equipment may have sharp edges. Wear gloves to prevent cuts or abrasions when removing from carton, handling and maintaining this equipment.

⚠WARNING
RISK OF FIRE OR ELECTRIC SHOCK
To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.

⚠WARNING
RISK OF FIRE OR ELECTRIC SHOCK
Luminaire wiring and electrical parts may be damaged when drilling for installation of LED retrofit kit. Check for enclosed wiring and components.

Notice
Do not use abrasive materials, glass cleaners or other solvents on cover plate or lens. To clean the faceplate, use a mild soap solution.

Do not expose the product to substances and /or materials containing sulphur, chlorine or other halogen compounds and to chemicals mentioned in below table.

Category	Chemical Name
Solvents	Toluene, xylene, benzene, chloromethane, chloroform, ethyl acetate, butyl acetate, acetone, MEK, MIBK
Acid	HCl, H_2SO_4, HNO_3
Alkali	KOH, NaOH, LiOH, $Ca(OH)_2$
Oil	Diesel oil, petroleum, hydro carbons

Caution
This kit is designed for permanent installation in ordinary (Non-Hazardous) locations in accordance with the National Electrical Code and all applicable local codes. Do not use in areas of limited ventilation or in high ambient enclosures.

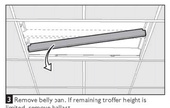
Caution
Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation except if specifically mentioned in these installation guide.

Notice
Handle components with care. Do not drop, slide or scratch any of the components to prevent visual damage to the product, loss of functionality or difficulties during installation.

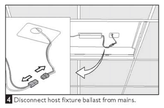
Host lighting fixture

The Philips EvoKit is designed for installation in a wide variety of 2x4 and 2x2 indoor fluorescent based fixtures in horizontal applications.

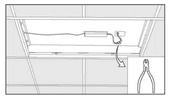
- The Philips EvoKit is non-air handling.
- Install the Philips EvoKit only in fluorescent based host lighting fixtures only with a minimum depth of 3".
- Install the Philips EvoKit only in combination with 15/16" NEMA G or NEMA NFG t-grids.
- Due to the wide variety in troffers and ceiling grids, it is recommended that the installer does a test install before commencing a renovation.
- Please verify voltage on the Philips EvoKit product label matches the mains voltage.



2 Remove belly pan. If remaining trofter height is limited, remove ballast.



4 Disconnect host fixture ballast from mains.

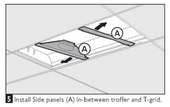


Notice
Make sure to remove packaging (except the LED protection*), from EvoKit components before installing.
Do not install with total power input greater than power rating of original fixture.
When space in the trofter is limited, remove original ballast.

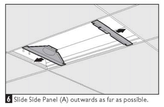
* Remove LED protection just before installing the Diffuser (E) (see step 14).

Installation of Side Panels (A)

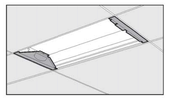
For SpaceWise accessory, see Spacewise installation instructions.



5 Install Side panels (A) in-between troffer and T-grid.



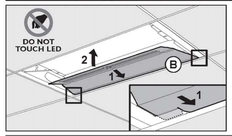
6 Slide Side Panel (A) outwards as far as possible.



Installation Philips Advance 503441 (Optional)

For installation of the Philips **Advance 503441** Emergency LED Driver, please see the emergency driver installation section from this EvoKit manual

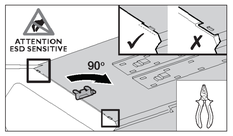
Installation LED Panel (B)



7 Install LED panel (B) in between troffer and T-grid, making sure the tabs at each corner of the LED panel slide into the respective slots on the side panel.

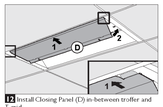
Notice
Do not touch the LEDs with hands or tooling! Touching LEDs can lead to failure of the product.

⚠WARNING
RISK OF PERSONAL INJURY
While installing the LED panel (B) and Closing Panel (D), make sure the electrical wiring is not clamped between panels

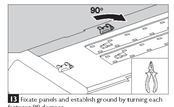


8 Push LED panel upward into position so that the tabs sits above the side panels (this may require a push up on the tabs while pushing outward on the side panels). Locate panels and establish ground by turning each fastener 90 degrees.

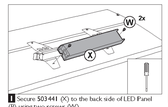
Notice
Do not touch the LEDs with hands or tooling! Touching LEDs can lead to failure of the product.



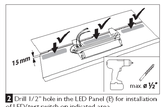
12 Install Closing Panel (D) in-between troffer and T-grid.



13 Locate panels and establish ground by turning each fastener 90 degrees.



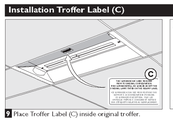
1 Secure 503441 (X) to the back side of LED Panel (B) using two screws (W).



2 Drill 1/2" hole in the LED Panel (B) for installation of LED/test switch on indicated area.

⚠WARNING
RISK OF FIRE OR ELECTRIC SHOCK
While installing the LED panel (B) and Closing Panel (D), make sure the electrical wiring is not clamped between panels.

Installation Troffer Label (C)

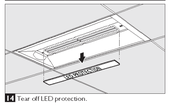


9 Place Troffer Label (C) inside original troffer.

THIS LUMINAIRE HAS BEEN MODIFIED FROM ITS ORIGINAL CONFIGURATION. THIS LUMINAIRE WILL NO LONGER ACCEPT THE ORIGINAL LAMPS STATED ON THE RELAMP LABEL.
CE LUMINAIRE A SUBI DES MODIFICATIONS PAR RAPPORT À SA CONFIGURATION D'ORIGINE. CE LUMINAIRE N'ACCEPTERA PLUS LES AMPOULES PRÉVUES À L'ORIGINE ET REPRISE SUR L'ÉTIQUETTE RELATIVE AU REMPLACEMENT.

Notice
It is imperative to use the retrofit warning sticker included with the product in order to alert the end-user that this luminaire will no longer operate on the originally intended lamps.

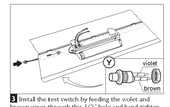
Remove LED protection



14 Tear off LED protection.

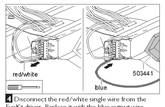
Installation Diffuser (E)

15 Slide Diffuser (E) under the tabs on one side from either Panel and press diffuser (E) over the tabs on opposite panel. The installation is now complete.



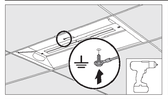
3 Install the test switch by feeding the violet and brown wires through the 1/2" hole and hand tighten the plastic nut included with the test switch/LED combo. Add connect from test switch to wiring harness (Z) (violet - violet, brown - brown).

Notice Ensure an un-switched hot circuit is available to the fixture. This is required for proper emergency fixture operation.



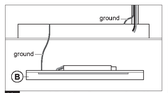
4 Disconnect the red/white single wire from the EvoKit driver. Replace it with the blue output wire from the **503441** (Z). Place a wire nut over the original red/white wire for proper isolation.

Ground connection (Situation 1 - 2)

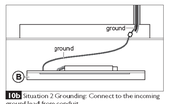


⚠WARNING
RISK OF PERSONAL INJURY
Proper grounding of EvoKit metal parts is required to ensure personal safety.

Notice
Make new electrical connections to mains by employing applicable connectors in accordance with the applicable federal, state and local laws, regulations and electrical codes.



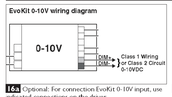
10a Situation 1 Grounding: Screw grounding cable from Led Panel (B) to original trofter if host fixture ground connection is made trough host fixture.



10b Situation 2 Grounding: Connect to the incoming ground lead from conduit.

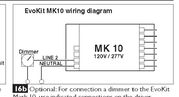
Connection 0-10V, MK10 dimmer and STEP DIM (Optional)

EvoKit 0-10V wiring diagram



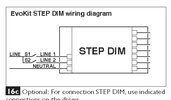
16a Optional: For connection EvoKit 0-10V input, use indicated connections on the driver.

EvoKit MK10 wiring diagram



16b Optional: For connection a dimmer to the EvoKit Plark 10, use indicated connections on the driver.

EvoKit STEP DIM wiring diagram



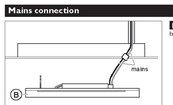
16c Optional: For connection STEP DIM, use indicated connections on the driver.

Notice
Use 18 AWG Solid Copper Wire Rated>=300V. Strip Wire 3/8"
In case the EvoKit MK10 277V is installed in combination with a dimmer, use a minimum of 2 EvoKits MK10 277V per dimmer.

5 Connect the yellow output wire from the **503441** to the EvoKit red/white wire connection block and the yellow/black output wire from the **503441** (Z) to the EvoKit blue/white wire connection block.

6 Disconnect black wire and insert white/black wire (Z) in the EvoKit driver.

Mains connection



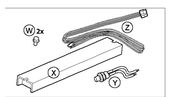
11 Connect main cables and hide connected wires behind LED Panel (B).

Installation Closing Panel (D)

SpaceWise: Before installing the closing panel connect Spacewise.
See Spacewise installation instructions.

Initial installation Philips Advance 503441 Emergency LED Driver (Sold separately)

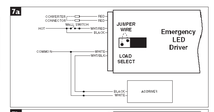
If the Philips **Advance** 503441 Emergency LED Driver is to be installed into the EvoKit retrofit fixture, please follow these instructions and the instructions provided with the Emergency driver



Components: Screws (W), Emergency LED driver (X), Test switch (Y) Wiring harness (Z).

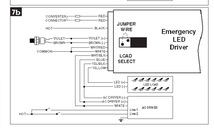
⚠WARNING
RISK OF PERSONAL INJURY
Ensure all warning and cautionary markings given in the Philips **Advance** 503441 installation instructions are heeded.

7a



7a Emergency LED driver wiring in combination with **0-10V** and **MK 10** version.
Connect WHT/RED, BLACK and WHITE (2x) wires (Z) as per the **503441** wiring diagram.
Connect the **503441** red to red as indicated in schematic (Z).

7b



7b Emergency LED driver wiring in combination with **STEP** version.

Notice For the EVOlet, do not connect the jumper wire / lead select (yellow/red) on **503441**.

Philips Lighting Company
200 Franklin Square Drive
Somerset, NJ 08873
1-800-555-6050

Philips Lighting
281 Hillmont Road
Markham, Ontario
Canada, L6C 2S3
1-800-555-0050
A Division of
Philips Electronics Ltd.

www.philips.com
2014/03/19

443529560851 REV. C

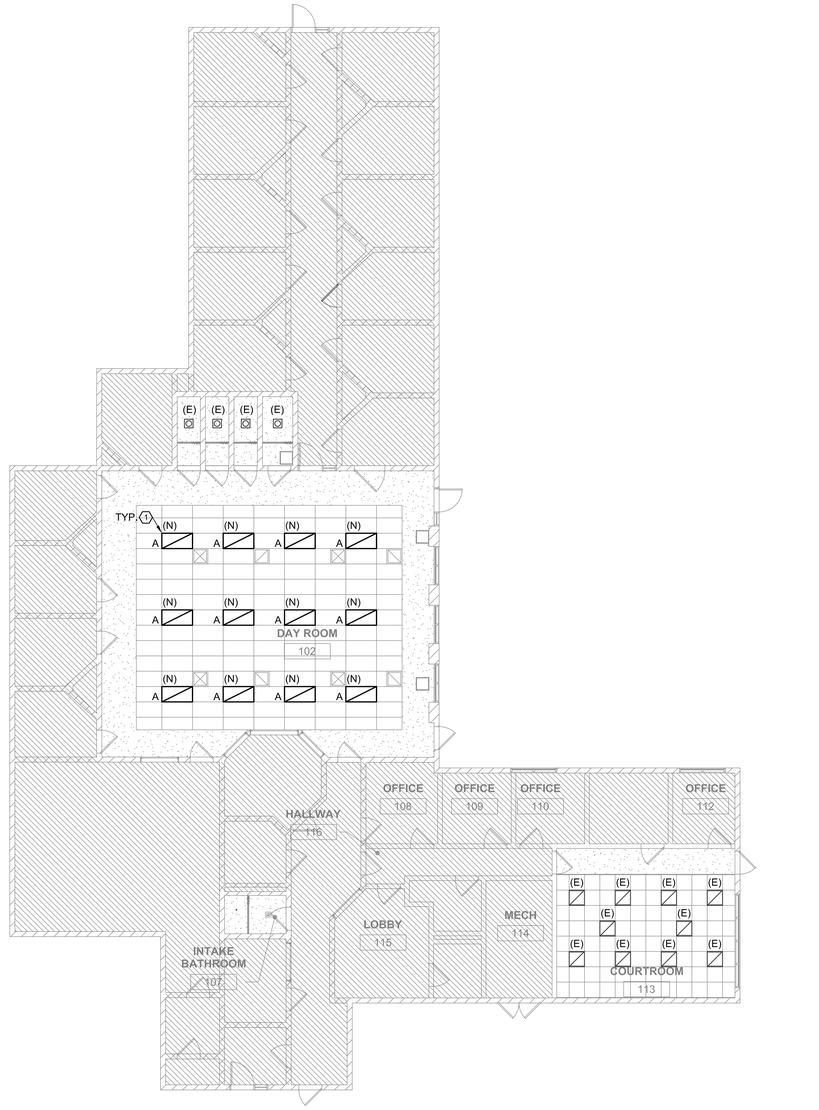
LUMINAIRE SCHEDULE

Label	Manufacturer / Catalog #	Mounting / Description	Lamps	Voltage	Input Wattage	Dimming	Notes
A	Philips EvoKit LED	Ceiling Recessed T-Bar	LED, 80+ CRI,	120-277V	31.5 W	0-10V	1,2,3,
	516427 EvoKit 2x4 P 42L 32W 835 2 0-10 7 G4 + EVO200 + 502535	2'x4' LED Retrofit Kit	4200lm, 3500K			(1-100%)	4

Notes:
1. Provide 502435 Earthquake Cable for each fixture.
2. See manufacturer's installation manual.
3. Provide with SpaceWise accessory for Title 24 compliant controls.
4. Provide facility with two (2) SpaceWise programming remotes.

NUMBERED SHEET NOTES

1 ADD ALTERNATE #02: EXISTING 2x4 FLUORESCENT LUMINAIRE TO BE RETROFITTED WITH LED RETROFIT KIT, CIRCUITING AND SWITCHING TO BE RE-USED AS EXISTING. NET LOAD REDUCTION OF LIGHTING CIRCUITS.



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

SAN BENITO COUNTY — HOLLISTER — ESTABLISHED 1874

Revisions

No.	Revisions	By	Date	Appr.
1	OWNER REVISIONS	NWB	2-20-18	NWB

BID DOCUMENTS

ISSUE DATE: 10/27/2017 BY: NB

Whittington Electric, Inc.
WEI Project#: 417-024 Engineering / Commercial / Industrial
1940 Industrial Drive • Auburn, CA 95603
Office (530) 823-3055 • Fax (530) 823-3066

Architect/Engineer Of Record: _____

REGISTERED PROFESSIONAL ENGINEER — NATHAN W. BLACK — E21078 Exp. 03-31-19 — ELECTRICAL — STATE OF CALIFORNIA

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HY Architects Project number: 4996

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708 FLYNN RD
HOLLISTER, CA 95023

Project
SAN BENITO COUNTY RENOVATION PROJECT

Sheet Title
OVERALL FLOOR PLAN - LIGHTING

Client Project Number: Client Proj. #

Scale: AS NOTED
Drawn By: RS
Checked By: NB
Issue Date: 10/27/2017
Revit Version: N/A

Sheet
E1.1

8/8/2017 2:02:24 PM C:\REVIT_locals\4998 San Benito County Juvenile Hall_R17_nwaltsh.rvt