

ENGAN ASSOCIATES ARCHITECTS | INTERIOR DESIGNERS March 19, 2021

City of Marshall, MN 344 W Main Street Marshall, MN 56258

RE: Marshall Municipal Building – Marshall, MN (777.01.1)

Dear Sharon and Scott,

This letter serves as explanation for change orders.

- A. Price for additional materials to reroute hydronic lines due to existing conditions varying from original blue prints and demolition plans.
- B. Reviewed and coordinated electrical will owners Audio Visual designer
- C. Duct insulation at concrete chase, reused as fresh air intake. The original duct work was deleted in PR#4 when we consolidated two louvers on the north wall into one louver on the east wall. We reused an existing concrete chase as a fresh air supply.
- D. Credit for not painting the ceilings in the mechanical room
- E. Credit for not installing vinyl base in storage room in basement
- F. Reviewed; contractor to add one light in each stairwell and deduct the flag pole light installation

See attached detailed descriptions regarding this discovery and the additional fees that were incurred.

Thank you for your time and attention to this matter. Please contact me with any questions that may arise.

Respectfully,

Andy Engan, AIA, LEED[®] AP, CID AME/shl

Enclosure(s) CO#13



Change Order

PROJECT: (Name and address)	CONTRACT INFORMATION:	CHANGE ORDER INFORMATION:
777.01 Marshall Municipal Building	Contract For: General Construction	Change Order Number: 13
Marshall, MN	Date: November 18, 2019	Date: March 1, 2021 Revised 3/16/2021
OWNER: (Name and address)	ARCHITECT: (Name and address)	CONTRACTOR: (Name and address)
City of Marshall	Engan Associates	Brennan Construction of MN, Inc.
344 West Main Street	311 4th Street SW	124 E Walnut Street, Ste. 240
Marshall, MN 56258	Willmar, MN 56201	Mankato, MN 56001

THE CONTRACT IS CHANGED AS FOLLOWS:

(Insert a detailed description of the change and, if applicable, attach or reference specific exhibits. Also include agreed upon adjustments attributable to executed Construction Change Directives.)

A. Brennan CR19 related to RFI 32 reroute hydronic lines	\$3,810.00
B. Brennan CR 25 as it relates to ASI 4	\$2,610.00
C. Brennan CR 26 related to RFI 40 fresh air shaft	\$10,066.00
D. Brennan CR 28 credit for not painting ceilings in mechanical room	(\$1,853.00)
E. Brennan CR 29 credit for not installing base in lower level	(\$553.00)
F. PR 06 lighting in stairwells, CR31 Electrical lighting change, and ASI #7	\$656.00

The original Contract Sum was	\$ 5,030,200.00
The net change by previously authorized Change Orders	\$ 681,008.00
The Contract Sum prior to this Change Order was	\$ 5,711,208.00
The Contract Sum will be increased by this Change Order in the amount of	\$ 14,736.00
The new Contract Sum including this Change Order will be	\$ 5,725,944.00

The Contract Time will be increased by Zero (0) days. The new date of Substantial Completion will be

NOTE: This Change Order does not include adjustments to the Contract Sum or Guaranteed Maximum Price, or the Contract Time, that have been authorized by Construction Change Directive until the cost and time have been agreed upon by both the Owner and Contractor, in which case a Change Order is executed to supersede the Construction Change Directive.

NOT VALID UNTIL SIGNED BY THE ARCHITECT, CONTRACTOR AND OWNER.

Engan Associates ARCHITECT (Firm pame)	Brennan Construction of MN, Inc. CONTRACTOR (Firm name)	City of Marshall OWNER (Firm name)
SIGNATURE	John van Dyck SIGNATURE	SIGNATURE
Andy M. Engan, AIA, LEED AP, CID, Principal	John van Dyck	Scott VanDerMillen, Owner Representative
PRINTED NAME AND TITLE March 16, 2021	PRINTED NAME AND TITLE 3/18/21	PRINTED NAME AND TITLE
DATE	DATE	DATE

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Building Together

DATE: October 30, 2020

TO: Andy Engan; Engan Architects

CC: Nathan Hrdlichka; Brennan Construction

- FROM: John van Dyck; Brennan Construction
- RE: Marshall Municipal CR 19, Based on RFI 32

Contractor Item Description		Labor		Material	Total	
Subcontractors:						
Willmar PH	Rerouting heat lines on upper floor	\$	-	\$-	\$ 3,429.00	
				Subs Subtotal:	\$ 3,429.00	
Brennan Companies:						
Brennan Companies	Bond Change @ 1%				\$ 34.29	
				GC Subtotal:	\$ 34.29	

\$

\$

\$

342.90

3,810.00

3.43

10% OH&P on
subs
10% OH&P on
GC
TOTAL:

Approved:

John in

PLUMBING & HEATING OF WILLMAR, INC. 2101 Highway 12 West Willmar, MN 56201 Phone: 320-235-4962 Fax: 320-235-7652

PROJECT:	MARSHALL MUNICIPAL BUILDING
DATE:	10/26/2020
ATTN:	JOHN VANDYCK
FROM:	MIKE SIXTA
TO:	BRENNAN CONSTRUCTION

RFI-32

Changes as noted on attached plans to reroute heat lines for FT-1 radiation on upper floor

Material & Labor	\$2,298.00
Profit 10%	\$230,00
Insulation Sub	\$858,00
Profit 5%	<u>\$43.00</u>
TOTAL CHANGE ADD	\$3,429.00

Plumbing & Heating of Willmar, Inc.

Michael C.Sixta

Michael C. Sixta

iej

NOTE: This quote is valid for 30 days.

Signa	lure
Date	

Please sign and return if accepted:



Building Together

DATE: February 17, 2021

TO: Andy Engan; Engan Architects

CC: Nathan Hrdlichka; Brennan Construction

FROM: John van Dyck; Brennan Construction

RE: Marshall Municipal CR 25; Revised Costs related to ASI 4

Contractor	Item Description	Labor		Material	Total	
Subcontractors:						
Red River	Electrical changes per ASI 4	\$	-	\$-	\$ 2,149.	00
St Aubin	Drywall changes per ASI 4				\$ 200.	00
				Subs Subtotal:	\$ 2,349.	00
Brennan Companies:						
Brennan Companies	Bond Change @ 1%				\$ 23.4	49
				GC Subtotal:	\$ 23.4	49

10%	OH&P on subs	\$ 234.90
10%	OH&P on GC	\$ 2.35
Т	OTAL:	\$ 2,610.00

Approved:

Ala a

CCN # Date: Project Name: Page Number: E08 12/24/2020 MARSHALL MUNICIPAL CENTER 1

Client Address:

Brennan Construction of MN, Inc

Contact: John van Dyck 125 E Walnut St Suite 240 Mankato, MN 56001



"A Tradition of Quality"

3345 43rd St S Moorhead, MN 56560 Telephone: 218 236 0502 Fax: 218 233 3483 Contact: Lee Hiller E-mail: leeh@redriverelectric.com

Work Description

As per ASI #4:

- 1) Room 326. Provide (1) 6" "Evolution" style floor box in lieu of previously approved 4" floor box.
- 2) Room 231. Provide (1) 6" "Evolution" style floor box in lieu of previously approved 4" floor box.
- 3) Room 217. Provide (1) 6" "Evolution" style floor box in lieu of previously approved 4" floor box.
- 4) Room 218. Provide (5) 6" "Evolution" style floor boxes in lieu of (5) previously approved 4" floor boxes.
- 5) Room 219. Provide dedicated circuit for existing double-duplex receptacle for AV rack. Provide (1) additional
- double-duplex receptacle on a dedicated circuit at AV rack location. Circuit to LP20-45,47.
- 6) Room 350. Provide (1) double-duplex receptacle on a dedicated circuit at AV rack location. Circuit to LP30-41.
- 7) Room 350. Provide (1) 6" "Evolution" style floor box in lieu of previously approved 4" floor box.
- 8) Room 348. Provide (1) 6" "Evolution" style floor box in lieu of previously approved 4" floor box.
- 9) Room 349. Eliminate floor box.
- 10) Room 320. Eliminate floor box.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only to the price change in the extra work and we reserve the right to claim for impact and consequential costs and for changes in time to the job schedule.

This price is good for acceptance within 10 days from the date of receipt.

Acceptance of the quote will add <u>day(s)</u> to the project schedule.

Itemized Breakdown

Description	Qty	Net Price U	Total Mat.	Labor U	Total Hrs.	
1/2" CONDUIT - EMT	150	57.46 C	86.19	2.50 C	3.75	
1" CONDUIT - EMT	-50	174.31 C	-87.16	4.38 C	-2.19	
1/2" CONN SS STL - EMT	4	78.52 C	3.14	10.00 C	0.40	
1" CONN SS STL - EMT	-4	47.00 C	-1.88	15.00 C	-0.60	
1/2" COUPLING SS STL - EMT	17	20.70 C	3.52	0.00 C	0.00	
1" COUPLING SS STL - EMT	-2	62.24 C	-1.24	0.00 C	-0.00	
1/2" 1-H STRAP - EMT - STEEL	17	12.43 C	2.11	6.13 C	1.04	
3/4" 1-H STRAP - EMT - STEEL	-3	20.44 C	-0.61	6.75 C	-0.20	
#12 THHN BLACK	515	142.44 M	73.36	3.75 M	1.93	
#12 THHN SOLID GREEN	165	142.44 M	23.50	6.75 M	1.11	
#12/2C CABLE MC - STL ARMOR	20	524.81 M	10.50	21.75 M	0.44	
3/8" CONN MC SNAP-IN	2	111.62 C	2.23	7.00 C	0.14	
1-H STRAP #14/2 & #12/2	4	10.99 C	0.44	5.75 C	0.23	
ORIGINAL						

Date:	12/24/2020
Project Name:	MARSHALL MUNICIPAL CENTER
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Description	Qty	Net Price	U	Total Mat.	Labor	U	Total Hrs.
WIRE NUT RED 512	15	25.54	С	3.83	28.00	M	0.42
4x 1 1/2" SQ BOX TKO RACO 189	4	90.37	С	3.61	28.75	С	1.15
4x 2 1/8" SQ BOX TKO BRKT RACO 235	1	171.00	С	1.71	28.75	С	0.29
4" SQ 2G PLSTR RING 3/4" RISE	1	107.66	С	1.08	3.13	С	0.03
4" SQ BLANK COVER	4	40.39	С	1.62	3.13	С	0.13
GROUNDING SCREW	3	6.23	С	0.19	2.50	С	0.07
#8 TO #10x 7/8 PLAS ANCHOR (3/16)	-2	5.21	С	-0.10	7.50	С	-0.15
#8x 3/4 P/H SELF-TAP SCREW	6	7.83	С	0.47	3.25	С	0.20
#10x 1 P/H SELF-TAP SCREW	18	9.36	С	1.68	3.75	С	0.68
2G DUPLEX REC PLATE - 302 S/S	1	259.20	С	2.59	4.88	С	0.05
20A 125V DUP REC - CR20I (CS-SWO)	2	126.00	С	2.52	18.75	С	0.38
POKE THRU SERVICE FTG 4"	-14	332.22	E	-4,651.08	3.25	E	-45.50
POKE THRU SERVICE FTG 6"	10	597.60	Е	5,976.00	3.75	E	37.50
Totals	884			1,458.21			1.28

Summary

General Materials Material Tax	(@ 7.500 %)	1,458.21 109.37
Material Total JOURNEYMAN TRAVEL MILEAGE (Pro rated per week) TRAVEL TIME (Pro ratd per week) ROOM & BOARD (Pro rated per week) PER DIEM	(1.28 Hrs @ \$74.00) (1.28 @ 0.00 @ \$2.79 + 0.000 % + 0.000 % + 0.000 %) (1.28 @ 0.00 @ \$8.50 + 0.000 % + 0.000 % + 0.000 %) (1.28 @ 0.00 @ \$5.00 + 0.000 % + 0.000 % + 0.000 %) (1.28 @ 0.00 @ \$4.00 + 0.000 % + 0.000 % + 0.000 %)	1,567.58 94.72 3.57 10.88 6.40 5.12
Subtotal Overhead Markup	(@ 10.000 %) (@ 5.000 %)	1,688.27 168.83 92.86
Subtotal Adjustment #1	(@ -0.049 %)	1,949.96 -0.96
Final Amount		\$1,949.00

Final Amount

CONTRACTO	OR CERTIFICATION	
Name: Date: Signature:	Thereby certify that this quotation is	J 2-24-2020 complete and accurate based on the information provided.

CLIENT ACCEPTANCE

CCN # Date: Project Name: Page Number: E14 2/10/2021 MARSHALL MUNICIPAL CENTER 1

Client Address:

Brennan Construction of MN, Inc Contact: John van Dyck 125 E Walnut St Suite 240 Mankato, MN 56001



"A Tradition of Quality"

3345 43rd St S Moorhead, MN 56560 Telephone: 218 236 0502 Fax: 218 233 3483 Contact: Lee Hiller E-mail: leeh@redriverelectric.com

Work Description

Sheet E303.

1) Room 348. Provide duplex receptacle at counter height in SW corner of room.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only to the price change in the extra work and we reserve the right to claim for impact and consequential costs and for changes in time to the job schedule.

This price is good for acceptance within 10 days from the date of receipt.

Acceptance of the quote will add <u>day(s)</u> to the project schedule.

Itemized Breakdown

Description	Qty	Net Price U	Total Mat.	Labor U	Total Hrs.
#12/2C CABLE MC - STL ARMOR	20	524.81 M	10.50	21.75 M	0.44
3/8" CONN MC SNAP-IN	2	111.62 C	2.23	7.00 C	0.14
1-H STRAP #14/2 & #12/2	4	10.99 C	0.44	5.75 C	0.23
WIRE NUT RED 512	2	25.54 C	0.51	28.00 M	0.06
4x 1 1/2" SQ BOX TKO BRKT RACO 196	1	171.00 C	: 1.71	28.75 C	0.29
4" SQ 1G PLSTR RING 3/4" RISE	1	67.63 C	0.68	3.13 C	0.03
GROUNDING SCREW	1	6.23 C	0.06	2.50 C	0.03
#8x 3/4 P/H SELF-TAP SCREW	6	7.83 C	0.47	3.25 C	0.20
1G DUPLEX REC PLATE - 302 S/S	1	117.60 C	1.18	3.38 C	0.03
20A 125V DUP REC - CR20I (CS-SWO)	1	126.00 C	1.26	18.75 C	0.19
Totals	39		19.03		1.62

Summary

General Materials Material Tax	(@ 7.500 %)	19.03 1.43
Material Total JOURNEYMAN	(1.62 Hrs @ \$74.00)	20.46 119.88
TRAVEL MILEAGE (Pro rated per week) TRAVEL TIME (Pro ratd per week)	(1.62 @ 0.00 @ \$2.79 + 0.000 % + 0.000 % + 0.000 %) (1.62 @ 0.00 @ \$8.50 + 0.000 % + 0.000 % + 0.000 %)	4.52 13.77
ROOM & BOARD (Pro rated per week) PER DIEM	$(1.62 \oplus 0.00 \oplus $5.00 + 0.000 \% + 0.000 \% + 0.000 \%)$ $(1.62 \oplus 0.00 \oplus $5.00 + 0.000 \% + 0.000 \% + 0.000 \%)$ $(1.62 \oplus 0.00 \oplus $4.00 + 0.000 \% + 0.000 \% + 0.000 \%)$	8.10 6.48

ORIGINAL

Date:	2/10/2021
Project Name:	MARSHALL MUNICIPAL CENTER
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Summary (Cont'd)		
Subtotal		173.21
Overhead	(@ 10.000 %)	17.32
Markup	(@ 5.000 %)	9.53
Subtotal		200.06
Adjustment #1	(@ -0.030 %)	-0.06
Final Amount		\$200.00

Final Amount

CONTRACTO	R CERTIFICATIO	N	
Name: Date:	M	2/10/21	
Signature:	Thereby certify that this quota	ion is complete and accurate based on the information provided.	

CLIENT ACCEPTANCE



Architect's Supplemental Instructions

PROJECT: (name and address)	CONTRACT INFORMATION:	ASI INFORMATI
777.01 Marshall Municipal Building	Contract For: General Construction	ASI Number: 4
Marshall, MN	Date: November 18, 2019	Date: December
OWNER: (name and address)	ARCHITECT: (name and address)	CONTRACTOR:
City of Marshall	Engan Associates	Brennan Constr
344 West Main Street	311 4th Street SW	124 E Walnut
Marshall, MN 56258	Willmar, MN 56201	Mankato, MN

TION: 4

er 18, 2020

: (name and address) truction of MN, Inc. it Street, Ste. 240 N 56001

The Contractor shall carry out the Work in accordance with the following supplemental instructions without change in Contract Sum or Contract Time. Proceeding with the Work in accordance with these instructions indicates your acknowledgment that there will be no change in the Contract Sum or Contract Time. (Insert a detailed description of the Architect's supplemental instructions and, if applicable, attach or reference specific *exhibits.*)

See attached sheets and site observation notes:

Electrical Addendum-ASI#4 PR#3-ASI4 A-132 A-133 A-201 A-202 A-203 A-404 A-532A ASI4.1 ASI4.2 C-121 GTDL310 DRYER-INSTALL PR3-ASI4 **ELECTRICAL ADDENDUM -ASI#4**

ISSUED BY THE ARCHITECT:

Engan Associates ARCHITECT (Firm name)

11 SIGNATURE

Andy M. Engan, AIA, LEED AP, CID, Principal PRINTED NAME AND TITLE

December 18, 2020 DATE

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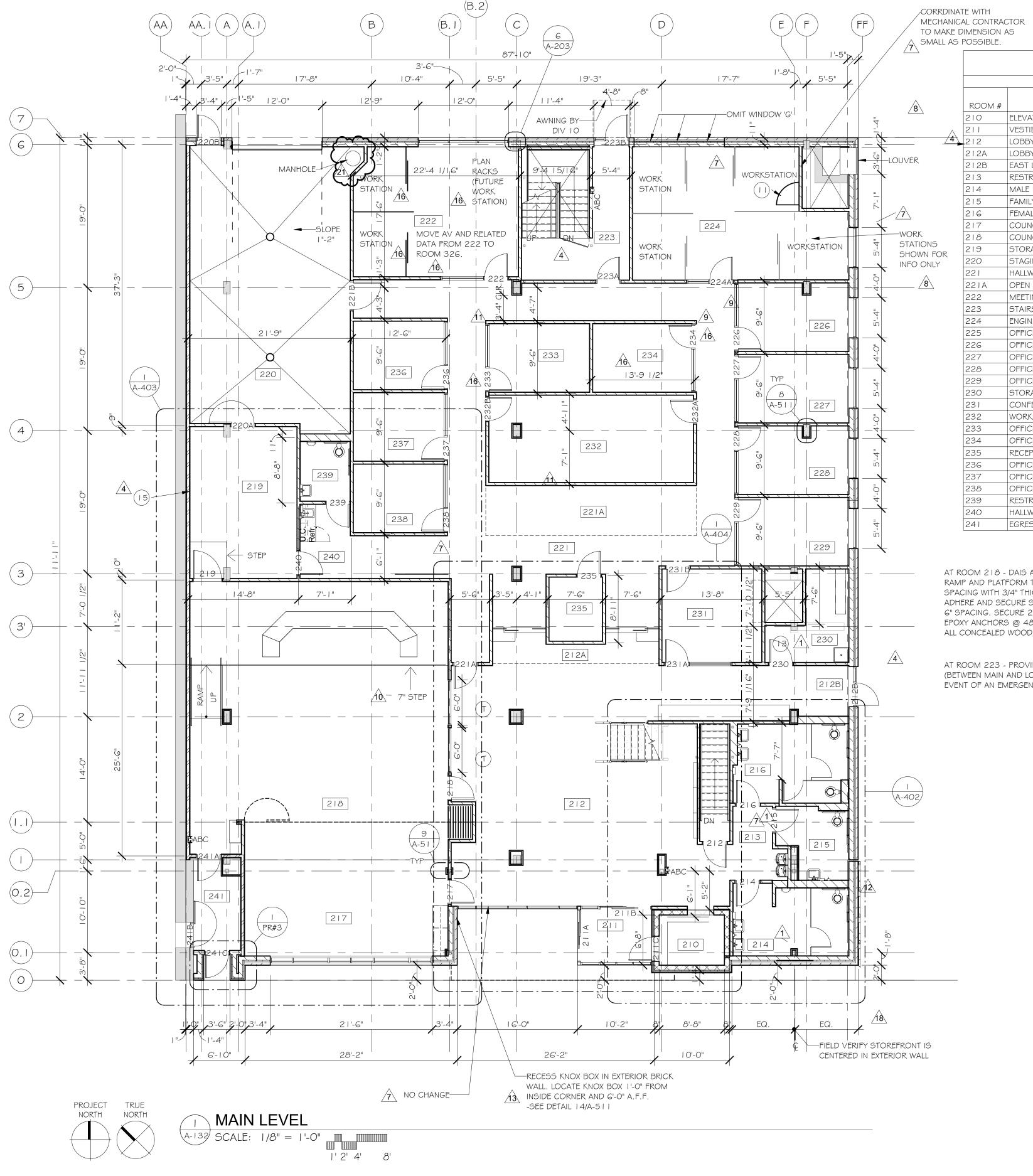
Stacy Holwerda

Subject: 777.01 Marshall City Hall - ASI Response Items 2

Marshall City Hall Items:

- 5 sidewalk panels at main entrance that need to be within 2% slope. Replace required concrete. See revised C-121
- 2. 7" step at sidewalk at plan south west emergency exit alcove. See revised PR-3 section.
- 3. In the basement, contractor to clean up debris and vacuum up all water on floor. Monitor to see if additional water leaks onto floor.
- 4. Contractor to verify if perimeter drain tile and vapor barrier below new slab per 1,3/A-111A is installed and draining to sump on plan south.
- 5. Contractor to fix sump pump and sump pump line to stop water leaking on basement floor.
- 6. Contractor to note location of fire damper access in room 124 on as-builts.
- 7. Revise columns in room 212. See revised A-404.
- 8. Revise time capsule location to be in the plan north east corner of room 241.
- 9. Insulation installation means and methods were discussed on site with installer at emergency exit at plan southwest corner, insulate 4" of wall on each side of door.
- 10. Concrete columns at 219 and 220 don't get wrapped with sheet rock.
- 11. Outlet on east wall of 218 shown between windows to moved north 6'-6".
- 12. Outlet on west wall of 212 shown between windows to be moved to west wall of 212a, near outside corner.
- 13. Rain leader shown in room 227 to be installed in 228 near column.
- 14. Locate power and data at north east corner of room 224 per note '15' on sheet E-302, as reviewed on site.
- 15. Field revisions in bathrooms 214, 215, and 216 were reviewed on site and should be noted on the as-built set in job trailer.
- 16. Coiling door at room 212a, columns should be inset in sheet rock wall similar to note '22' on A-532. Sheet rock wall may be furred out to accomplish this as reviewed on site. See attached.
- 17. Door 350a has been shifted south to provide ADA clearance from column.
- 18. Room 347, plan west wall to be fully sheet rocked.

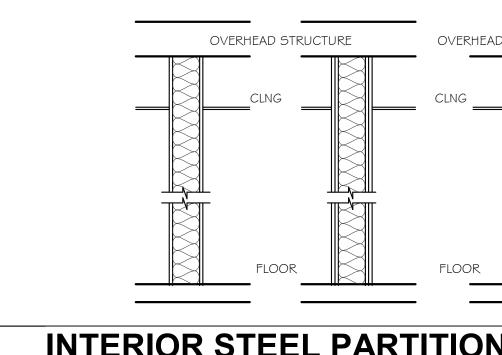
- 19. Room 348, add casework in plan north east corner. Floor to ceiling casework, similar to 11/A-501, with a pair of doors, taking the full space between brick wall and column. Contractor to field verify dimensions.
- 20. Room 317, plan south wall of 317 to be left open to old elevator shaft space.
- 21. Remove existing door frame and leave walls open in 318 and 319.
- 22. In room 224, insulate lower concrete wall, witch is the exterior equipment pad, with 2"-3" of rigid insulation.
- 23. Room 223, fur out north and south wall. Gyp. bd. to time out or overlap steel stair frame.
- 24. Room 233, south wall. Ether fur out wall to meet or overlap stair frame, or extend stair frame to gyp. bd. by tacking on steel angle to stair frame.
- 25. Room 220, at overhead door wrap structural steel jambs with 1" rigid insulation in between structural steel blocking and prefinished metal enclosure. Overhead door dimensions stay the same. The finished width will be shrunk by 1" on each side.
- 26. Room 320 to be furred out and painted gyp. bd. finish. Furring to accommodate electrical conduit and boxes.
- 27. Per revised M10, PR-4, note '22'. Coordinate with mechanical contractor their method of ducting louver into existing chase. Seal and Insulate around opening.
- In south wall of room 212a, mount power and data per interior elevation 16/A-402. Coordinate with note '2' on E-302.
- 29. In review of the application of the liquid applied weather barrier, the liquid applied weather barrier should be applied to vertical surfaces. The window flashing tape ether should be installed first in the rough opening and then the fluid applied over the flashing tape, or if the wall is sprayed first and then the tape is installed, the joint between the tape and the weather barrier should be sealed. Per conversation with manufactures rep. at WR Meadows, Mike Krulas, 612-704-0145.
- 30. Concrete parking curbs and bollards are called for on the site drawings to protect windows, walls, and mech./elec. Equipment. See C-131



1.3.1 1.4.2 2	PIMENSION AS POSSIBLE.													
				ROOM FIN	ISH SCHEDI	ule - Main	LEVEL							
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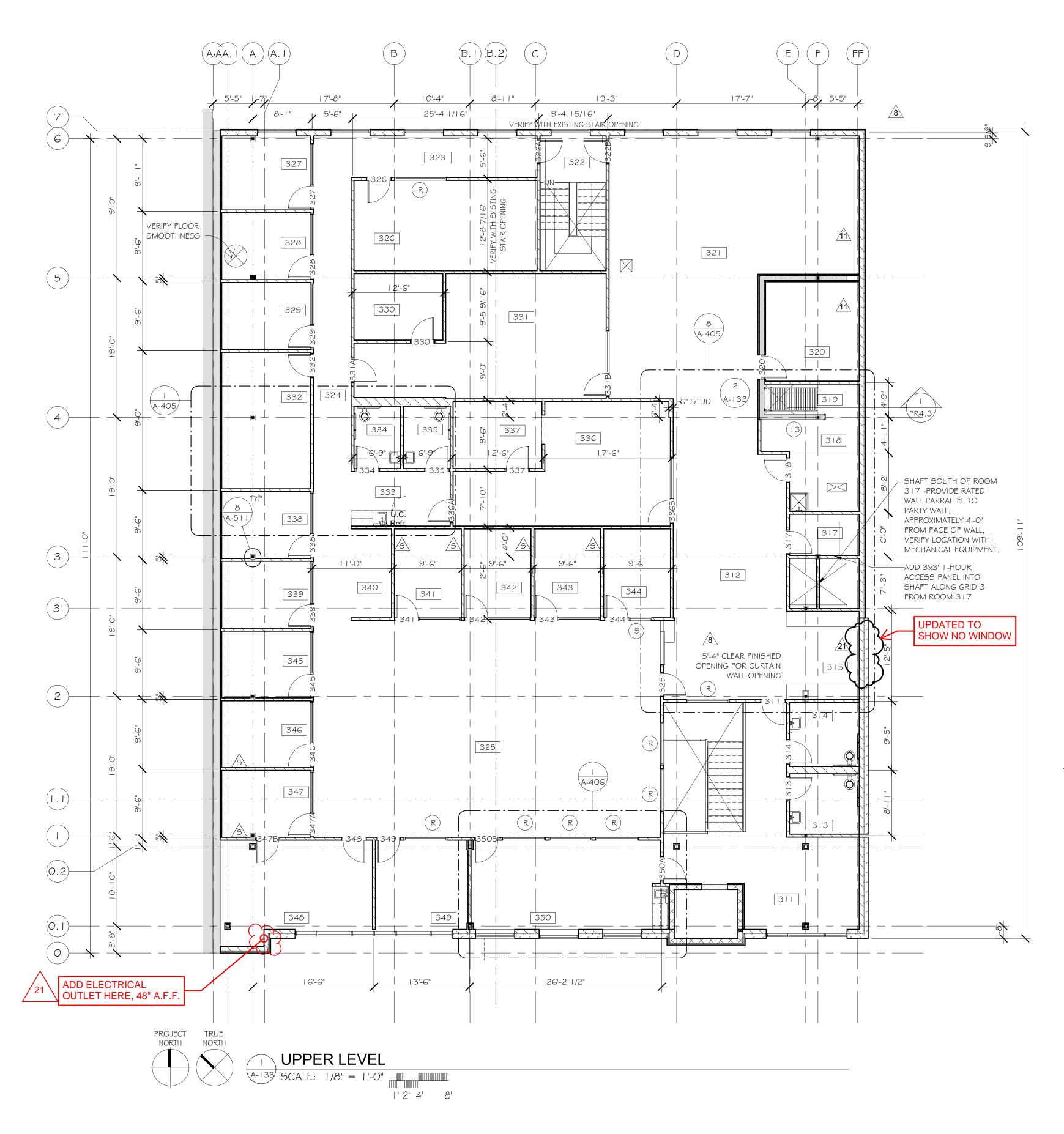
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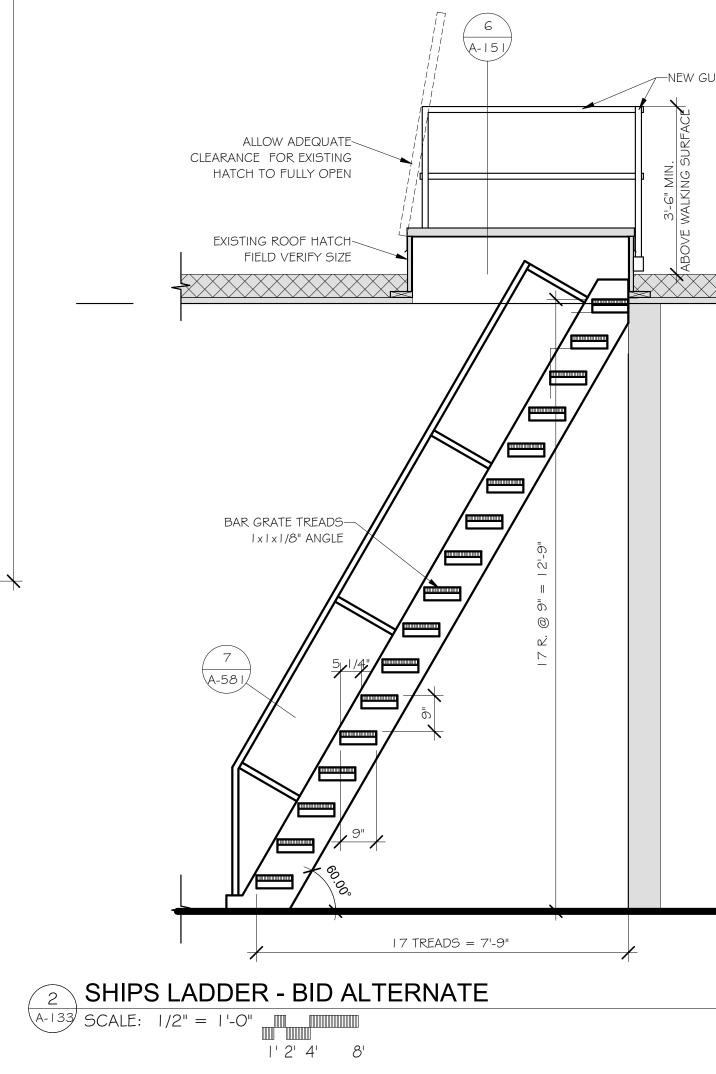




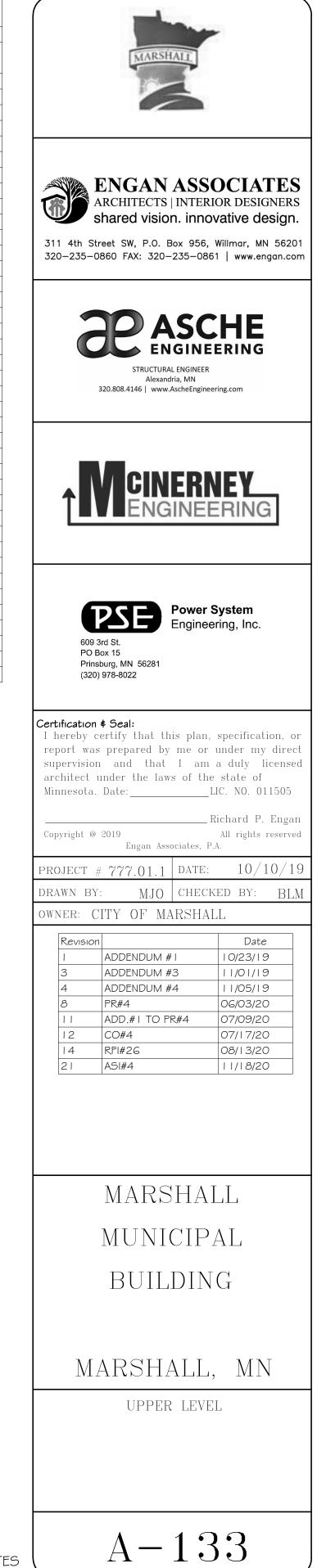


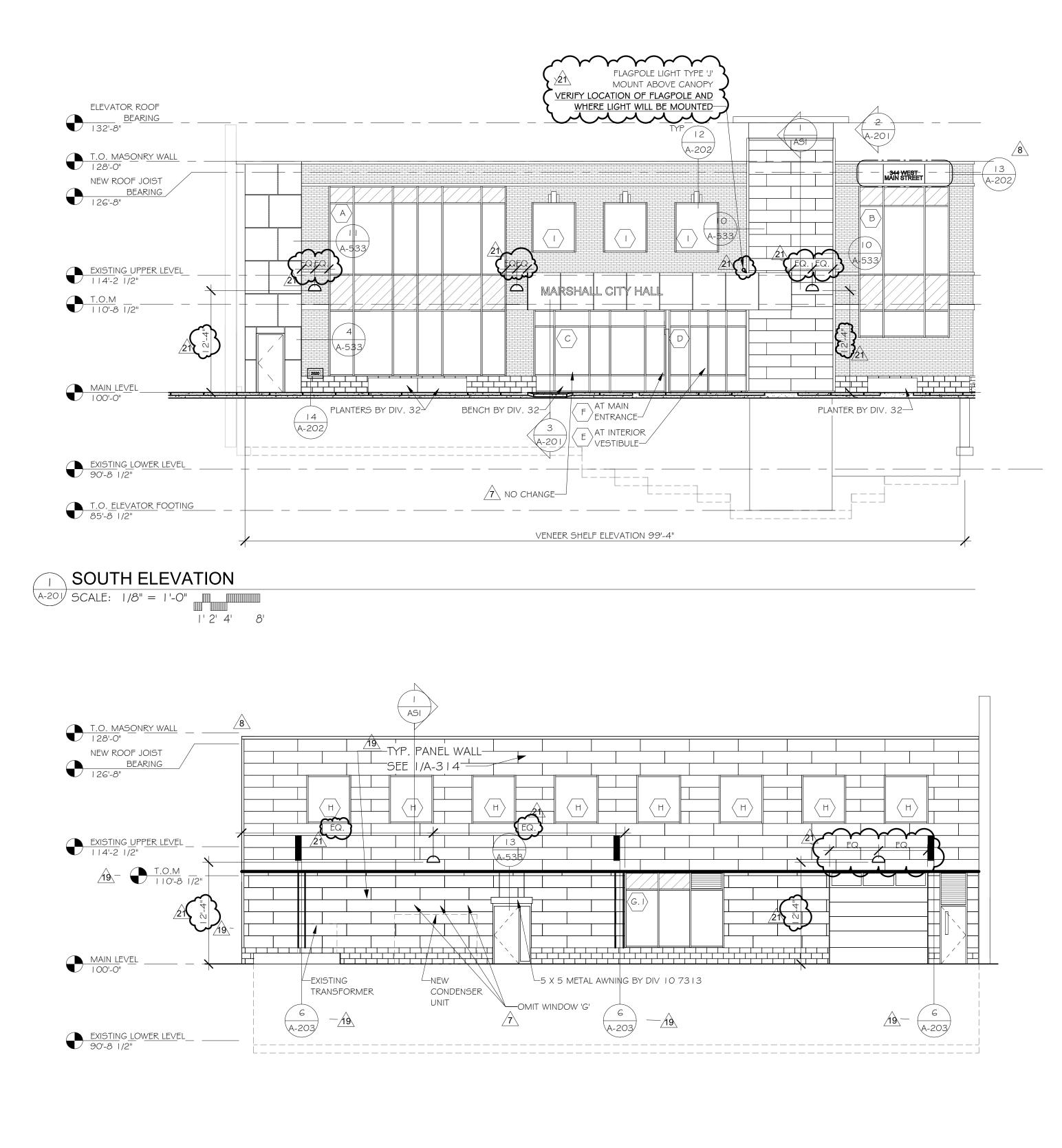


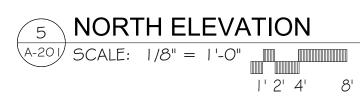
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311	LOBBY	1	2	9	2	2	2	1	A
312	LOBBY	1	2	2	-	2	2	1	
313	RESTROOM	1	4	4	4	4	4	4	
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315	LOBBY	1	2	9	2	-	2	1	A
317	ENCLAVE	1	2	7	2	2	2	1	
318	MECHANICAL	5	7	7	2	2	2	6	D
319	MECHANICAL	5	2	7	7	7	2	6	
320	CONFERENCE ROOM		2	2	2	2	2	1	
321	COLLABORATIVE WORKSPACE	1	2	2	2	2	2	1	
322	STAIRS LOBBY	5	2	2	2	2	2	6	
323	HALLWAY		2	2	2	-	2	1	
324	HALLWAY	1	2	2	2	2	2	1	
325	OPEN OFFICE	1	2	2	2	2	2	1	
326	CONFRENCE	1	2	2	2	2	2	1	
327	OFFICE	1	2	2	2	2	2	1	
328	OFFICE	1	2	2	2	2	2	1	
329	OFFICE	1	2	2	2	2	2	1	
330	OFFICE	1	2	2	2	2	2	1	
331	OFFICE SUITE		2	2	2	2	2	1	
332	SERVER ROOM		2	2	2	2	2	6	
333	CORRIDOR	1	2	2	2	-	2	1	
334	RESTROOM		4	4	4	4	4	4	
335	RESTROOM		4	4	4	4	4	4	
336	OFFICE SUITE	1	2	2	2	2	2	1	
337	OFFICE	1	2	2	2	2	2	1	
338	OFFICE	1	2	2	2	2	2	1	
339	OFFICE		2	2	2	2	2		
340	HALLWAY	1	2	2	2	2	2	1	
341	OFFICE	1	2	2	2	2	2	1	
342	OFFICE		2	2	2	2	2	1	
343	OFFICE		2	2	2	2	2	1	
344	OFFICE	1	2	2	2	2	2	1	
345	OFFICE	1	2	2	2	2	2	1	
346	OFFICE	1	2	2	2	2	2	1	
347	CITY ADMINISTRATOR	1	2	2	2	2	2	1	
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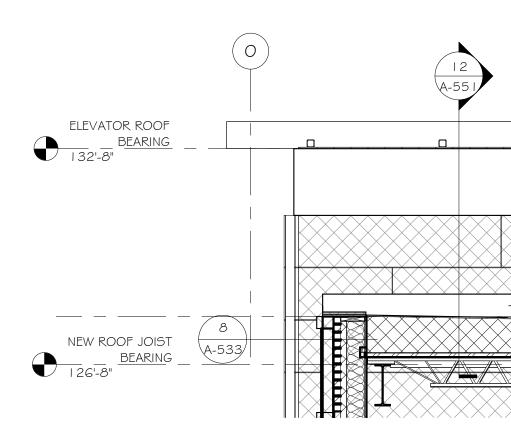


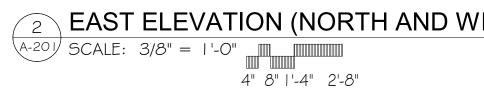
-NEW GUARD RAIL ON 2 SIDES

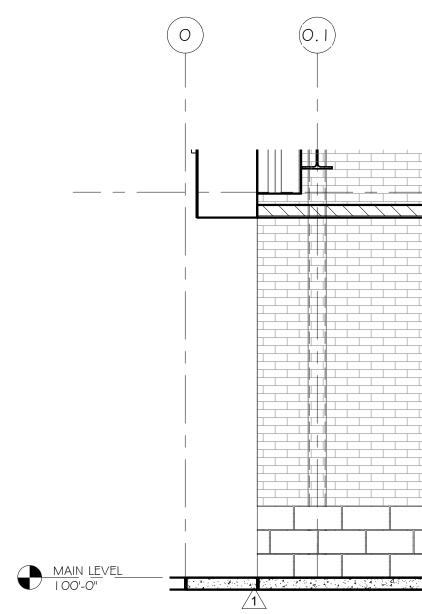


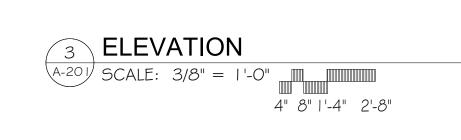




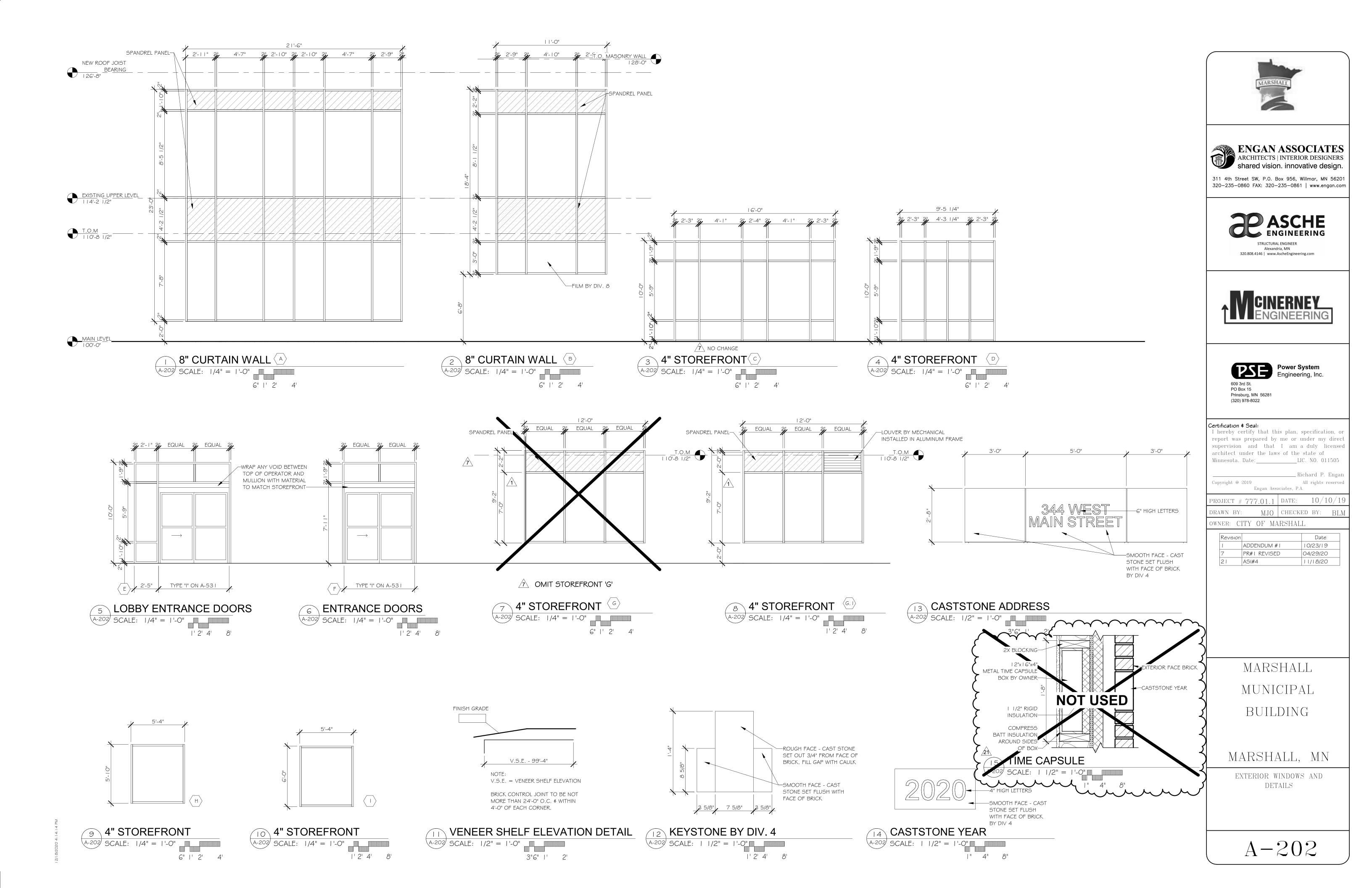


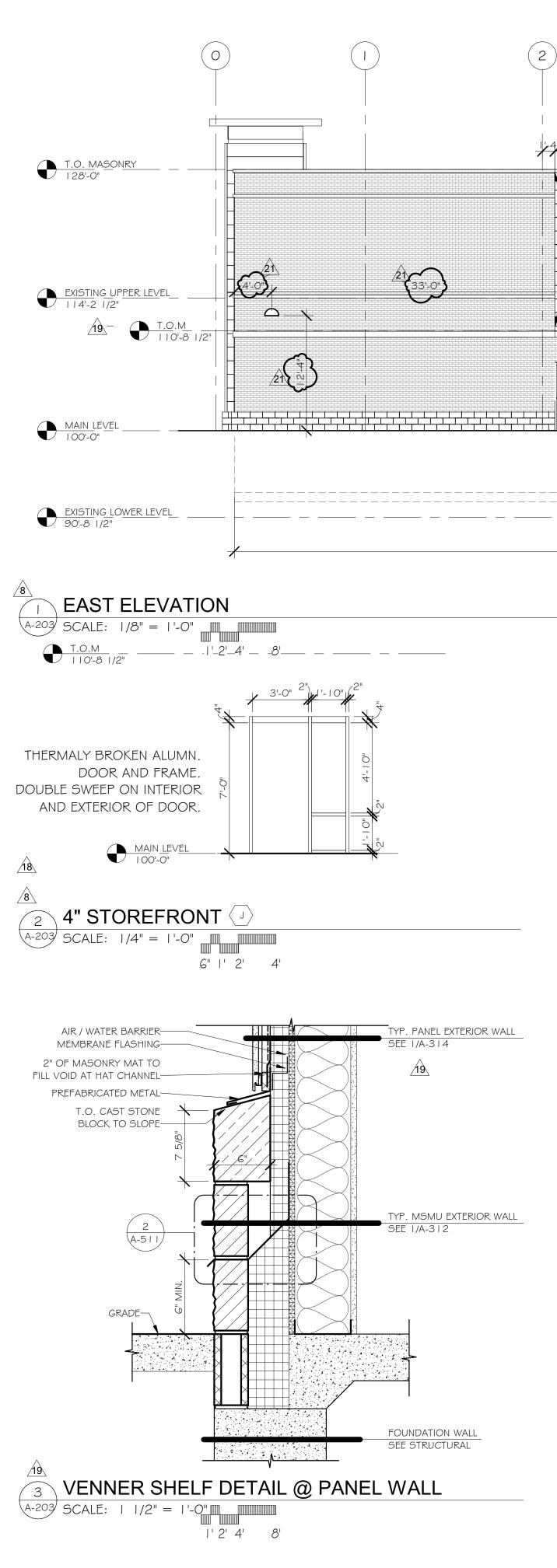


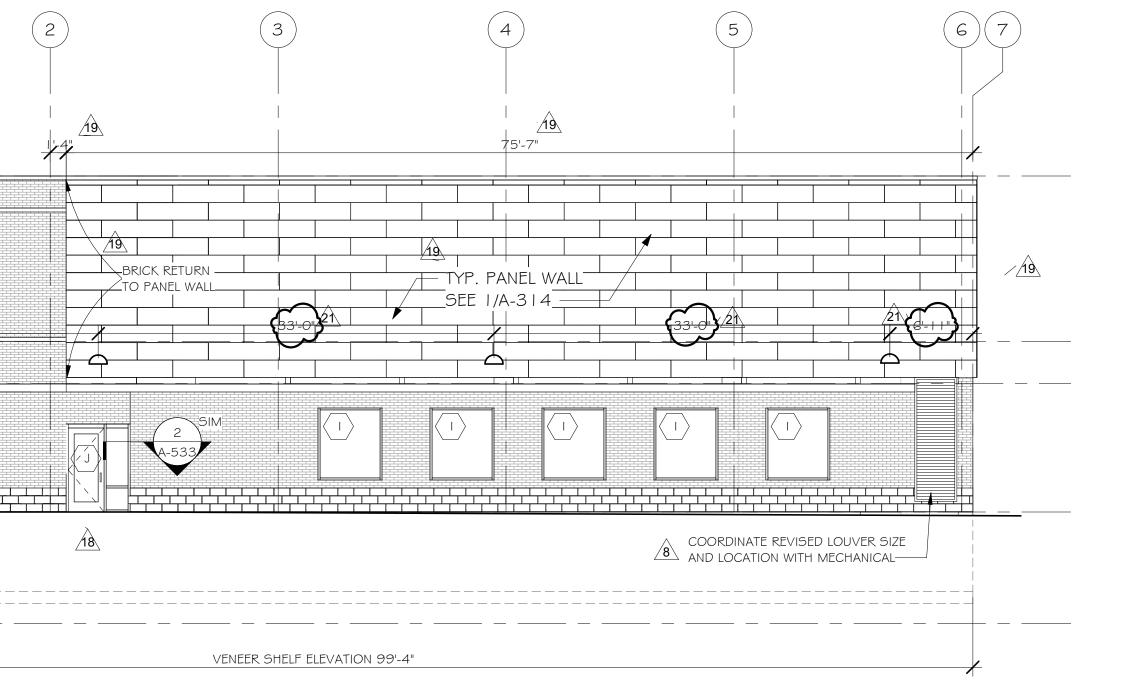


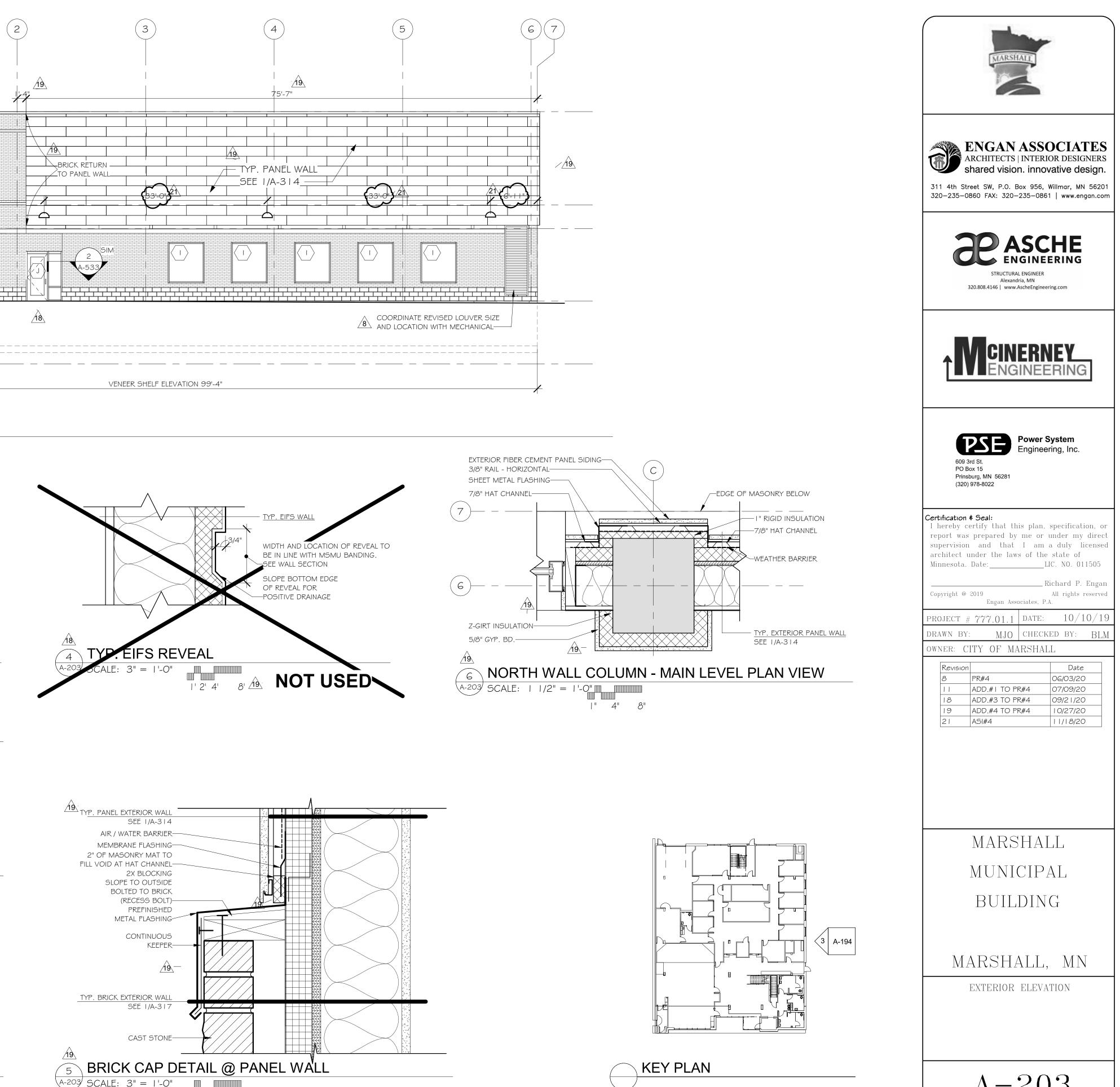


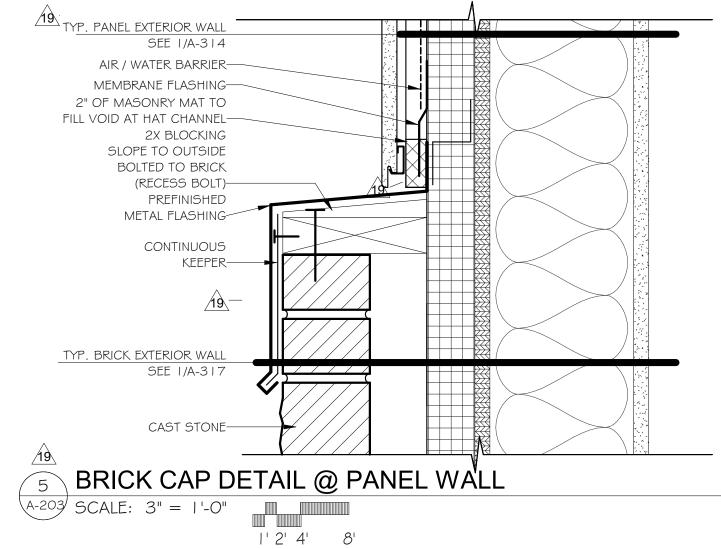
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<u>T.O. MASONRY</u> <u>128'-0"</u> <u>128'-0"</u>	ENGAN ASSOCIATES ARCHITECTS INTERIOR DESIGNERS shared vision. innovative design. 311 4th Street SW, P.O. Box 956, Willmar, MN 56201 320-235-0860 FAX: 320-235-0861 www.engan.com
	STRUCTURAL ENGINEER Alexandria, MN 320.808.4146 www.AscheEngineering.com
VEST SIM)	
T.O.M 110'-8 1/2"	Power System Engineering, Inc. 609 3rd St. PO Box 15 Prinsburg, MN 56281 (320) 978-8022
	Certification & Seal: I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed architect under the laws of the state of Minnesota. Date:
A-194	19 ADD.#4 TO PR#4 10/27/20 21 ASI#4 11/18/20
	MUNICIPAL Building
	MARSHALL, MN EXTERIOR ELEVATIONS
KEY PLAN	A-201

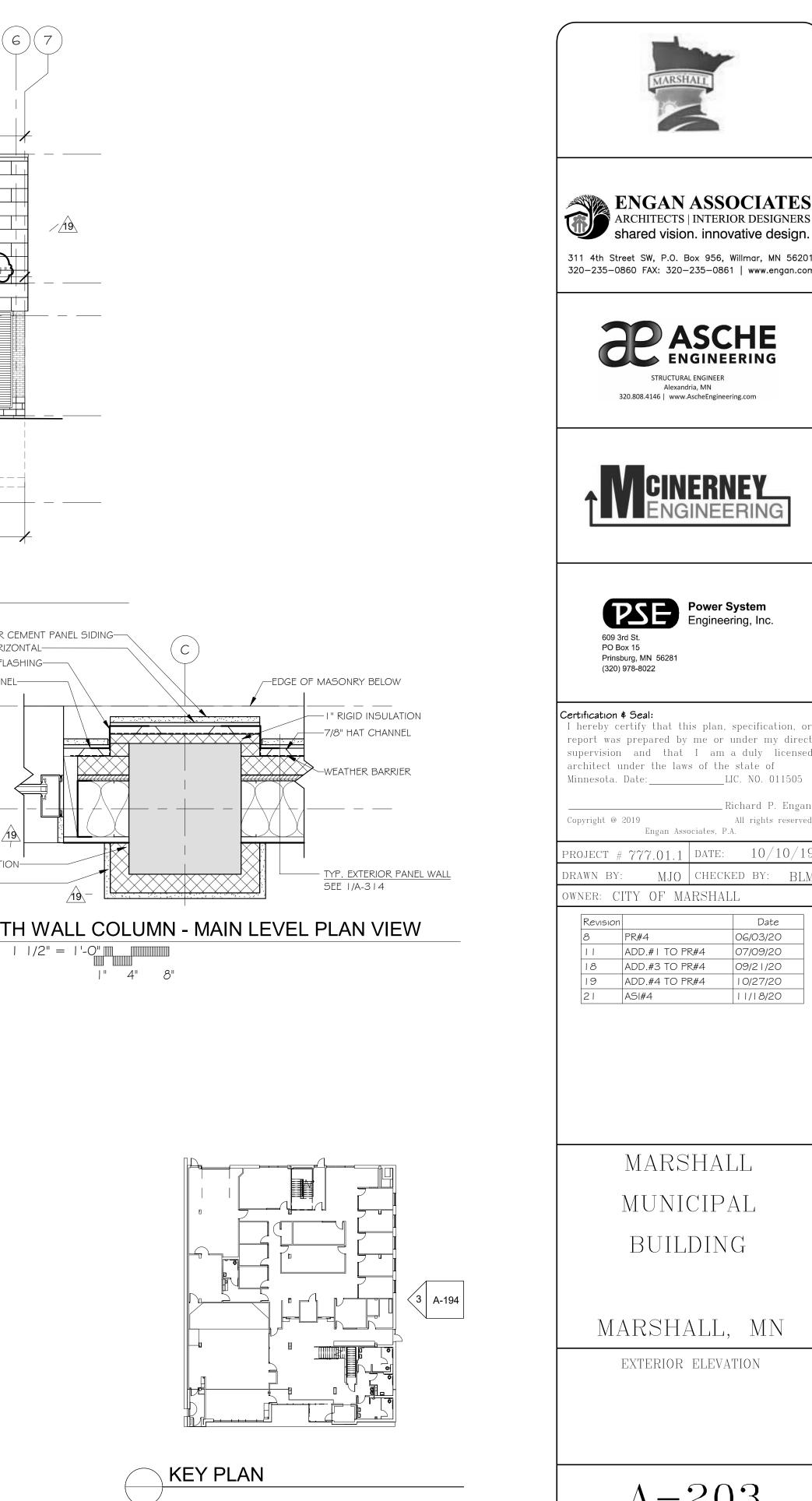


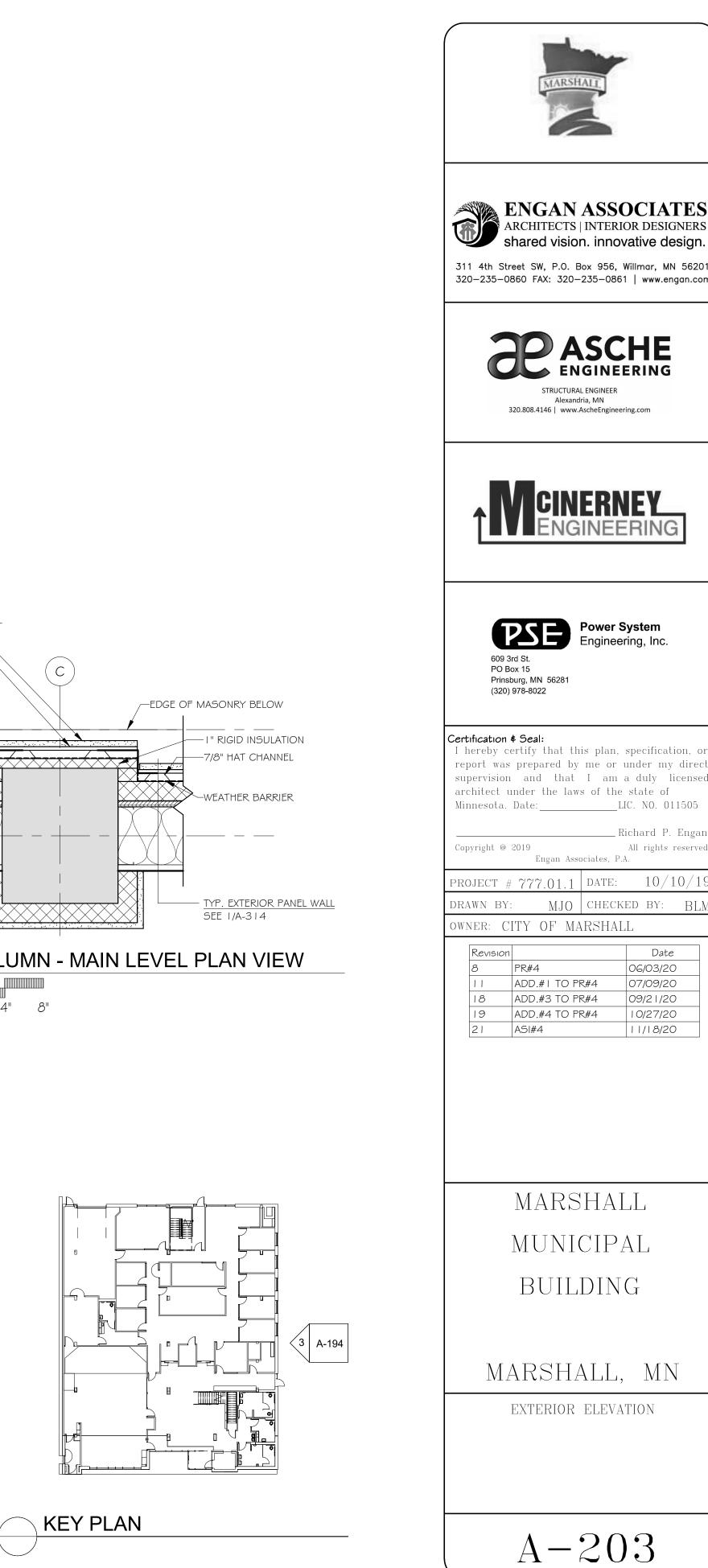


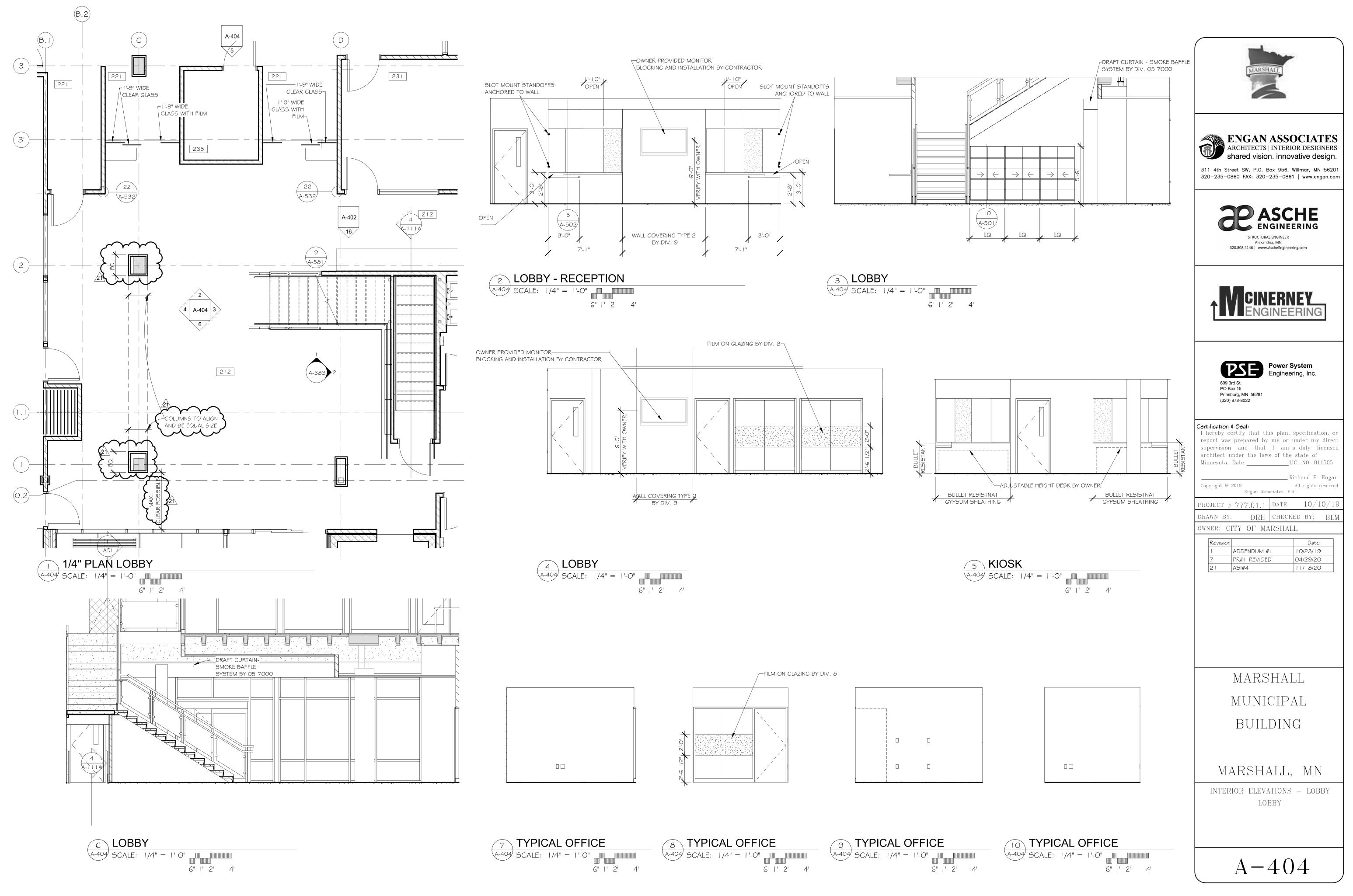




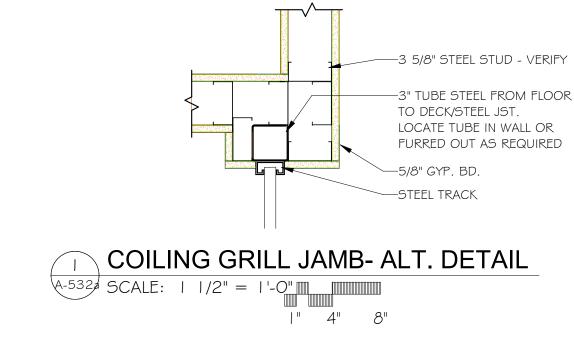








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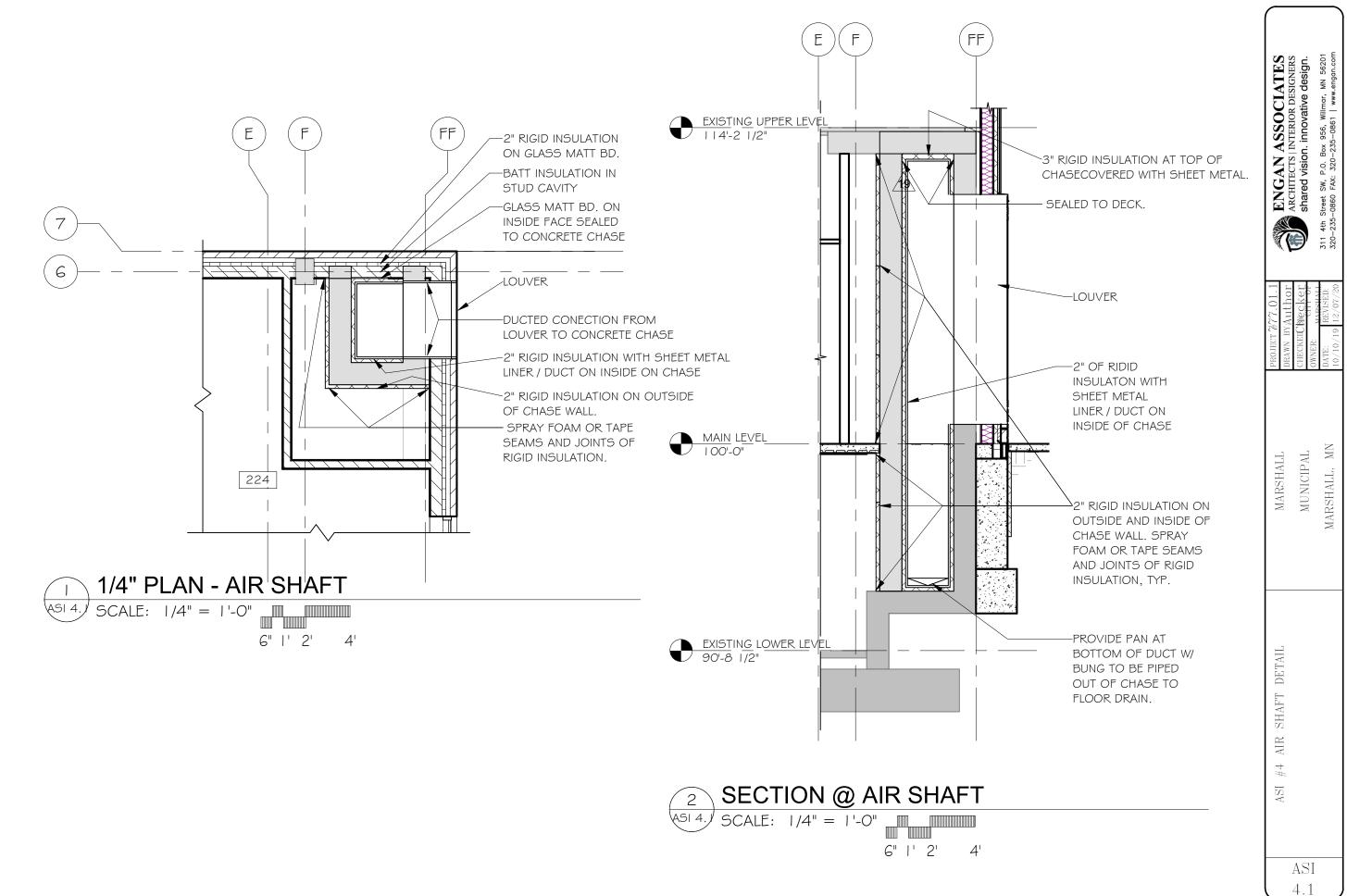
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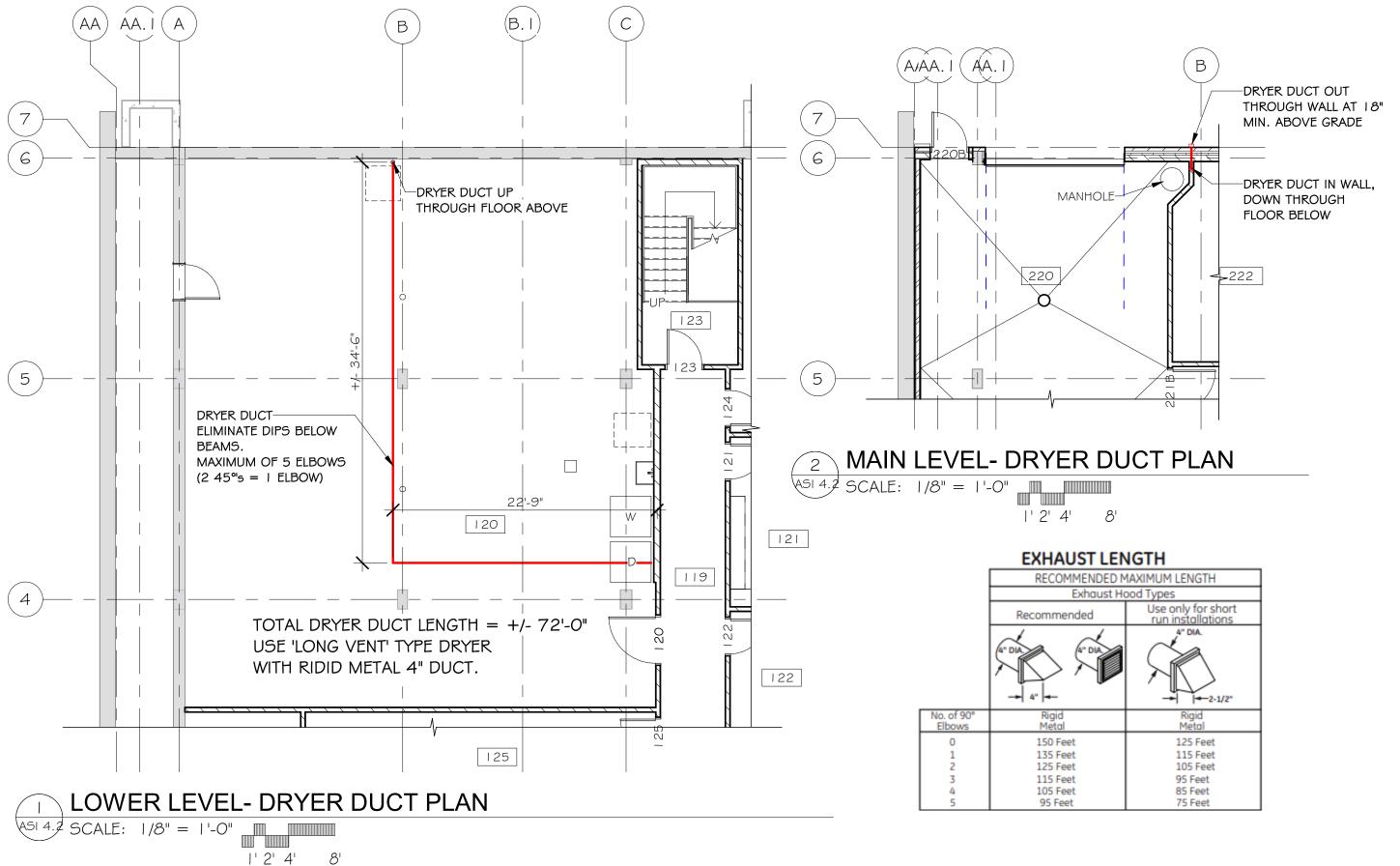
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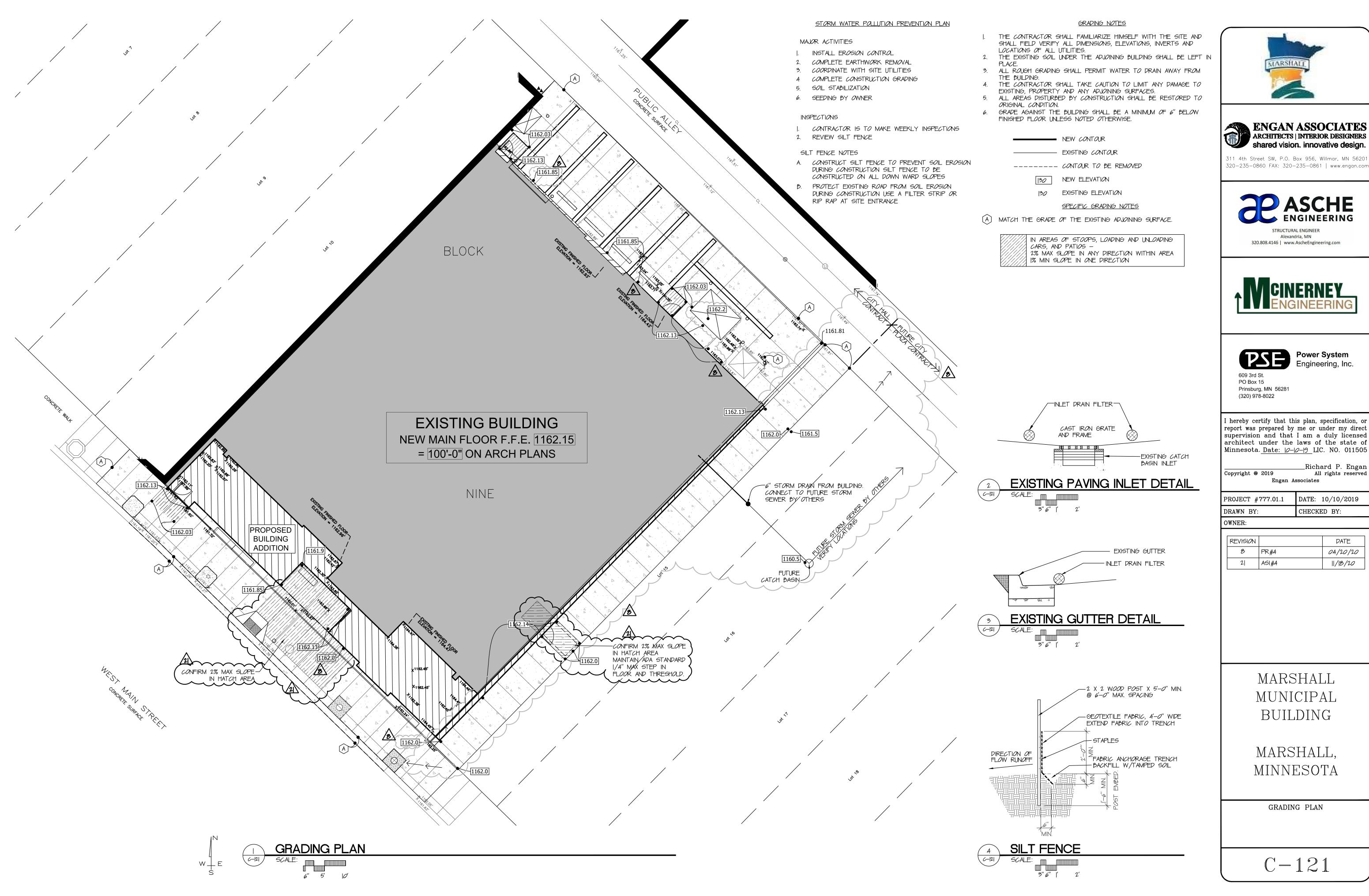


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ENGAN ASSOCIATES	shared vision, innovative design.	311 4th Street SW, P.O. Box 956, Willmar, MN 56201 320-235-0860 FAX: 320-235-0861 www.engan.com
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DRYER DUCT PLAN		
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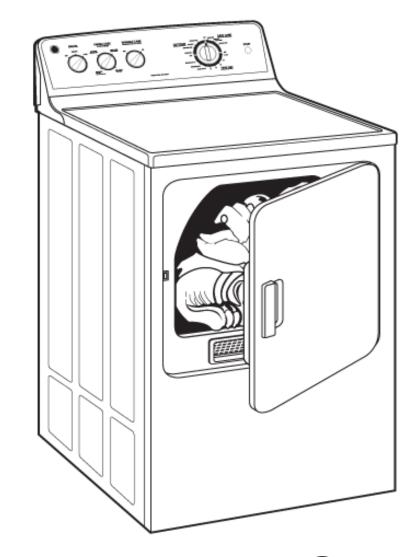
GTDL310EM INTENDED FUTURE DRYER OR SIMULAR (LONG VENT) GE® Long Vent 7.0 Super cu. ft. capacity DuraDrum[™] electric dryer

Features and Benefits

- Auto Dry Monitors air temperature with an automatic thermostat and ends the cycle when clothes are properly dried
- DuraDrum[™] interior Durable, scratch-resistant interior is designed for years of dependable service
- Rotary electromechanical controls Easy-to-use controls make it simple to set cycles
- 4 heat selections Provide the right temperatures for your clothesdrying needs
- Wrinkle Care Extended Tumble Continues to tumble clothes without heat to help prevent wrinkling and creasing
- Quick Fluff[™] Delivers ready-to-go results in minutes with no heat
- Up to 150 ft. venting capability 150 ft. equivalent venting provides flexible installation
- Model GTDL310EMWS White on white

For answers to your Monogram,[®] GE Profile[™] or GE[®] appliance questions, visit our website at geappliances.com or call GE Answer Center[®] service, 800.626.2000.







GTDL310EM GE® Long Vent 7.0 Super cu. ft. capacity DuraDrum™ electric dryer

Dimensions and Installation Information (in inches)

Exhaust Options:

3-way via rear, right and bottom.

NEMA Receptacle codes:

3-prong dryer cord/30A/4' long (cat #WX9X2) is for NEMA10-30R receptacle

4-prong dryer cord/30A/4' long (cat #WX9X18) is for NEMA14-30R receptacle

Circuit Requirements:

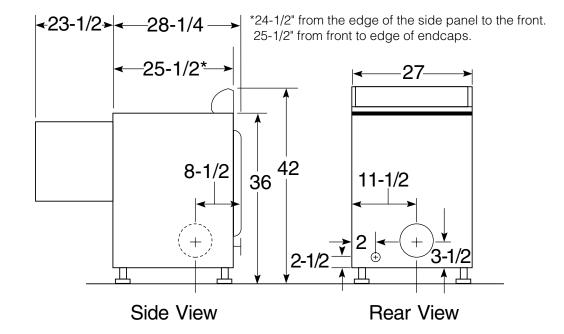
An individual, properly-grounded branch circuit, protected by a 30-amp circuit breaker or a time-delay fuse, is required.

Electric Dryer Rating:

240V, 5600W, 24A, 60Hz 208V, 4400W, 22A, 60Hz

Note: Dryer wall outlet must be located within 36" of service cord entry and accessible when dryer is mounted in position.

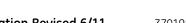
Installation Information: For complete information, see installation instructions packed with your dryer.





For answers to your Monogram,[®] GE Profile[™] or GE[®] appliance questions, visit our website at geappliances.com or call GE Answer Center[®] service, 800.626.2000.





GTDL310EM GE® Long Vent 7.0 Super cu. ft. capacity DuraDrum™ electric dryer

Dimensions and Installation Information (in inches)

For complete information, see installation instructions packed with your dryer.

Ducting Materials:

For best performance, this dryer should be vented with 4" diameter all rigid metal exhaust duct. If rigid metal duct cannot be used, then UL-listed flexible metal (semi-rigid) ducting can be used (Kit WX08X10077). In special installations, it may be necessary to connect the dryer to the house vent using a flexible metal (foil-type) duct. A UL-listed flexible metal (foil-type) duct may be used ONLY in installations where rigid metal or flexible metal (semi-rigid) ducting cannot be used AND where a 4" diameter can be maintained throughout the entire length of the transition duct. Please see installation instruction packed with your dryer for complete instructions when using flexible metal (foil type) ducting.

Exhaust Length Calculation:

- 1. Determine the number of 90° turns needed for your installation. If you exhaust to the side or bottom of dryer, add one turn.
- 2. The maximum length of 4" rigid (aluminum or galvanized) duct which can be tolerated is shown in the table.
- A turn of 45° or less may be ignored. Two 45° turns within the duct length should be treated as a 90° elbow.
- A turn over 45° should be treated as a 90° elbow.

Dryers **must** be exhausted to the outside.

Caution: For personal safety do not terminate exhaust into a chimney, under any enclosed house floor (crawl space), or into an attic, since the accumulated lint could create a fire hazard or moisture could cause damage. Never terminate the exhaust into a common duct or plenum with a kitchen exhaust, since the combination of lint and grease could create a fire hazard.

Exhaust ducts should be terminated in a dampered wall cap to prevent back drafts, bird nesting, etc. The wall cap must also be located at least 12" above the ground or any other obstruction with the opening pointed down.

For more information on venting kits and accessories, please call 1-800-GE CARES.

For answers to your Monogram,[®] GE Profile[™] or GE[®] appliance questions, visit our website at geappliances.com or call GE Answer Center[®] service, 800.626.2000.



imagination at work

		Best perfor	mance				
A A 4		Maximum length of 4" dia. rigid metal duct					
-4-		Exhaust ho	od type				
Domestic 2.1/2	Number of 90°	A 4"	B 2-1/2"				
dryer models	turns	opening	opening				
	0 1 2 3	150 ft. 135 ft. 125 ft. 115 ft.	125 ft. 115 ft. 105 ft. 95 ft.				
GTDL310	4	105 ft.	85 ft.				
GTDL200	5	95 ft.	75 ft.				

Special Installation Requirements

Alcove or Closet Installation:

- If your dryer is approved for installation in an alcove or closet, it will be stated on a label on the dryer back.
- The dryer MUST be exhausted to the outside.
- Minimum clearances between dryer cabinet and adjacent walls or other surfaces are: 0" either side
 - 3" front and rear
- Minimum vertical space from floor to overhead cabinets, ceilings, etc. is 52."
- Closet doors must be louvered or otherwise ventilated and must contain a minimum of 60 sq. in. of open area equally distributed. If this closet contains both a washer and a dryer, doors must contain a minimum of 120 sq. in. of open area equally distributed.
- No other fuel-burning appliance shall be installed in the same closet with a gas dryer.

Bathroom or Bedroom Installation:

- The dryer MUST be exhausted to the outdoors.
- The installation must conform with the local codes, or in the absence of local codes, with the National Electric Code and National Fuel Gas Code, ANSI Z223 for gas dryers.

Minimum Clearances other than Alcove or Closet Installation:

- Minimum clearances to combustible surfaces
 - 0" both sides 3" rear



Electric Dryer 07

Questions on Installation? Call: 800.GE.CARES (US) or visit our web site at: www.GEAppliances.com (US)

BEFORE YOU BEGIN

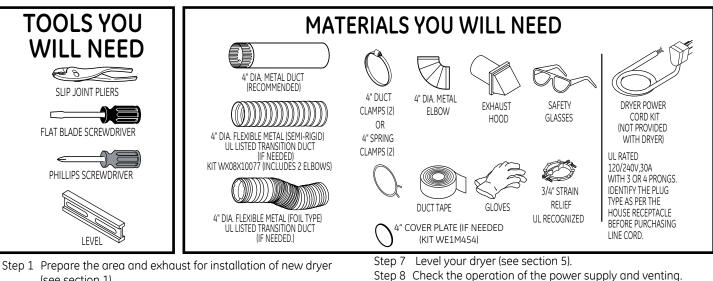
Read these instructions completely and carefully.

- **IMPORTANT-** Save these instructions for local inspector's use.
- IMPORTANT- Observe all governing codes and ordinances.
- Note to Installer Be sure to leave these instructions with the customer.
- Note to Customer Keep these instructions with your Owner's Manual for future reference.
- Before the old dryer is removed from service or discarded, remove the dryer door.
- Service information and the wiring diagram are located in the control console.
- Do not allow children on or in the appliance. Close supervision of children is necessary when the appliance is used near children.
- Install the dryer where the temperature is above 50°F for satisfactory operation of the drver control system.
- Product failure due to improper installation is not covered under the Warranty.

AWARNING RISK OF FIRE

- To reduce the risk of severe injury or death, follow all installation instructions.
- Clothes dryer installation must be performed by a qualified installer.
- Install the clothes dryer according to these instructions and in accordance with local codes.
- This dryer must be exhausted to the outdoors.
- Use only rigid metal 4" diameter ductwork inside the dryer cabinet and use only UL approved transition ducting between the dryer and the home duct.
- DO NOT install a clothes dryer with flexible plastic ducting materials. If flexible metal (semi-rigid or foil-type) duct is installed, it must be UL listed and installed in accordance with the instructions found in "Connecting The Dryer To House Vent" on pages 4-5 of this manual. Flexible venting materials are known to collapse, be easily crushed, and trap lint. These conditions will obstruct dryer airflow and increase the risk of fire.
- Do not install or store this appliance in any location where it could be exposed to water and or weather.
- Save these instructions. (Installers: Be sure to leave these instructions with the customer).

NOTE: Installation and service of this dryer requires basic mechanical and electrical skills. It is your responsibility to contact a qualified installer to make the electrical connections.



- (see section 1).
- Step 2 Check and ensure the existing external exhaust is clean (see section 1) and meets attached installation specifications (see section 3).
- Step 3 Remove the foam shipping pads (see section 1).
- Step 4 Move the dryer to the desired location.
- Step 5 Connect the power supply (see section 2).
- Step 6 Connect the external exhaust (see section 4).

- in a location where they will be noticed by the owner.
- For alcove or closet installation, see section 6.
- For bathroom or bedroom installation, see section 7. For mobile or manufactured home, see section 8.
- For garage installation (if allowed by local codes), see section 9.

Step 9 Place the Owner's Manual and the Installation Instructions

For side or bottom exhaust, see section 10.

Minimum Clearance Other Than Alcove or Closet Installation

Minimum clearance to combustible surfaces and for air opening are: 0 in. clearance both sides and 1 in. rear. Consideration **must** be given to provide adequate clearance for installation and service.

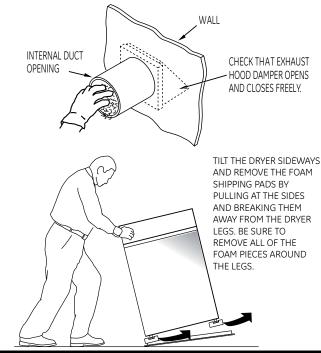
1 PREPARING FOR INSTALLATION OF NEW DRYER

TIP: Install your dryer before installing your washer. This will allow better access when installing dryer exhaust.

REMOVING LINT FROM WALL EXHAUST

OPENING

 Remove and discard existing plastic or metal foil transition duct and replace with UL listed transition duct.



2ELECTRICAL CONNECTION INFORMATION

AWARNING - TO REDUCE THE RISK OF FIRE, ELECTRICAL SHOCK AND PERSONAL INJURY: • DO NOT USE AN EXTENSION CORD OR AN ADAPTER PLUG WITH THIS APPLIANCE.

Dryer must be electrically grounded in accordance with local codes and ordinances, or in the absence of local codes, in accordance with the NATIONAL ELECTRICAL CODE, ANSI/NFPA NO. 70.

ELECTRICAL REQUIREMENTS

This dryer must be connected to an individual branch circuit, protected by the required time-delay fuses or circuit breakers. A four or three-wire, single phase, 120/240V or 120/208V, 60Hz, 30 amp circuit is required.

GROUNDING INSTRUCTIONS

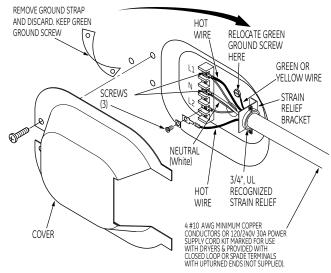
This dryer must be connected to a grounded metal, permanent wiring system, or an equipment-grounding conductor must be run with the circuit conductors and connected to the equipment grounding terminal on the appliance.

CONNECTING DRYER USING 4-WIRE CONNECTION (MUST BE USED FOR MOBILE HOME INSTALLATION)

NOTE: Since January 1,1996, the National Electric code requires that the new constructions utilize a 4-wire connection to an electric dryer.

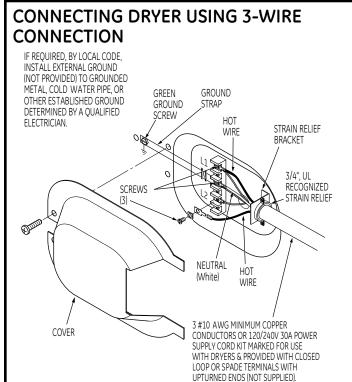
AWARNING:

Only a 4-conductor cord shall be used when the appliance is installed in a location where grounding through the neutral conductor is prohibited. Grounding through the neutral is prohibited for the new branch-circuit installations, mobile homes, recreational vehicles, and areas where local codes prohibit grounding through the neutral conduction.



- 1. Turn off the circuit breaker(s) (30 amp) or remove the dryer's circuit fuse at the electrical box.
- 2. Be sure the dryer cord is unplugged from the wall receptacle.
- 3. Remove the power cord cover located at the lower back.
- 4. Remove and discard ground strap. Keep the green ground screw for step 7.
- 5. Install 3/4 in. UL recognized strain relief to power cord entry hole. Bring power cord through strain relief.
- 6. Connect power cord as follows:
 - A. Connect the 2 hot lines to the outer screws of the terminal block (marked L1 and L2).
 - B. Connect the neutral (white) line to the center of the terminal block (marked N).
- 7. Attach ground wire of power cord with the green ground screw (hole above strain relief bracket). Tighten all terminal block screws (3) securely.
- 8. Properly secure power cord to strain relief.
- 9. Reinstall the cover.

AWARNING: NEVER LEAVE THE COVER OFF OF THE TERMINAL BLOCK.



3-wire Connection

Not for use in Canada.

DO NOT use for Mobile Home Installations.

NOT for use on new construction.

NOT for use on recreational vehicles.

NOT for use in areas where local codes prohibit grounding through the neutral conduction.

- 1. Turn off the circuit breaker(s) (30 amp) or remove the dryer's circuit fuse at the electrical box.
- 2. Be sure the dryer cord is unplugged from the wall.
- 3. Remove the power cord cover located at the lower back.
- 4. Install 3/4 in. UL recognized strain relief to power cord entry hole. Bring power cord through strain relief.
- 5. Connect power cord as follows:
 - A. Connect the 2 hot lines to the outer screws of the terminal block (marked L1 and L2).
 - B. Connect the neutral (white) line to the center of the terminal block (marked N).
- 6. Be sure ground strap is connected to neutral (center) terminal of block and to green ground screw on cabinet rear. Tighten all terminal block screws (3) securely.
- 7. Properly secure power cord to strain relief.
- 8. Reinstall the cover.

AWARNING: NEVER LEAVE THE COVER OFF OF THE TERMINAL BLOCK.

3 EXHAUST INFORMATION

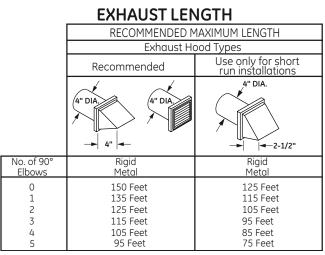
AWARNING - IN CANADA AND IN THE UNITED STATES, THE REQUIRED EXHAUST DUCT DIAMETER IS 4 in (102mm). DO NOT USE DUCT LONGER THAN SPECIFIED IN THE EX-HAUST LENGTH TABLE.

Using exhaust longer than specified length will:

- Increase the drying times and the energy cost.
- Reduce the dryer life.
- Accumulate lint, creating a potential fire hazard.
- The correct exhaust installation is YOUR

<u>RESPONSIBILITY</u>. Problems due to incorrect installation are not covered by the warranty.

Remove and discard existing plastic or metal foil transition duct and replace with UL listed transition duct. The **MAXIMUM ALLOWABLE** duct length and number of bends of the exhaust system depends upon the type of duct, number of turns, the type of exhaust hood (wall cap), and all conditions noted below. The maximum duct length for rigid metal duct is shown in the table below.



EXHAUST SYSTEM CHECK LIST

HOOD OR WALL CAP

- Terminate in a manner to prevent back drafts or entry of birds or other wildlife.
- Termination should present minimal resistance to the exhaust air flow and should require little or no maintenance to prevent clogging.
- Never install a screen in or over the exhaust duct. This could cause lint build up.
- Wall caps must be installed at least 12 in. above ground level or any other obstruction with the opening pointed down.

SEPARATION OF TURNS

For best performance, separate all turns by at least 4 ft. of straight duct, including distance between last turn and exhaust hood.

TURNS OTHER THAN 90°

- One turn of 45° or less may be ignored.
- Two 45° turns should be treated as one 90° turn.
- Each turn over 45° should be treated as one 90° turn.

SEALING OF JOINTS

- All joints should be tight to avoid leaks. The male end of each section of duct must point away from the dryer.
- The duct shall not be assembled with screws or other fastening means that extend into the duct and catch lint.
- Duct joints can be made air and moisture-tight by wrapping the overlapped joints with duct tape.
- Horizontal runs should slope down toward the outdoors 1/4 inch per foot.

INSULATION

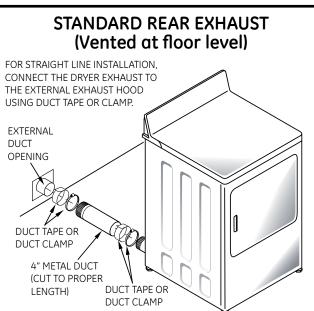
Duct work that runs through an unheated area or is near air conditioning should be insulated to reduce condensation and lint build-up.

4 EXHAUST CONNECTION

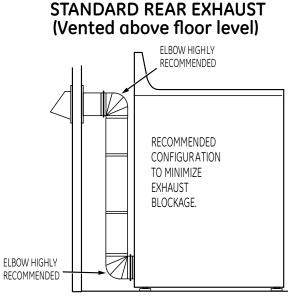
AWARNING - TO REDUCE THE RISK OF FIRE OR PERSONAL INJURY:

- This clothes dryer must be exhausted to the outdoors.
- Use only 4" rigid metal ducting for the home exhaust duct.
- Use only 4" rigid metal or UL-listed flexible metal (semi-rigid or foil-type) duct to connect the dryer to the home exhaust duct. It must be installed in accordance with the instructions found in "Connecting the Dryer to House Vent" on pages 4-5 of this manual.
- Do not terminate exhaust in a chimney, a wall, a ceiling, gas vent, crawl space, attic, under an enclosed floor, or in any other concealed space of a building. The accumulated lint could create a potential fire hazard.
- Never terminate the exhaust into a common duct with a kitchen exhaust system. A combination of grease and lint creates a potential fire hazard.
- Do not use duct longer than specified in the exhaust length table. Longer ducts can accumulate lint, creating a potential fire hazard.
- Never install a screen in or over the exhaust duct. This will cause lint to accumulate, creating a potential fire hazard.
- Do not assemble ductwork with any fasteners that extend into the duct. These fasteners can accumulate lint, creating a potential fire hazard.
- Do not obstruct incoming or exhausted air.
- Provide an access for inspection and cleaning of the exhaust system, especially at turns and joints. Exhaust system shall be inspected and cleaned at least once a year.

THIS DRYER COMES READY FOR REAR EXHAUSTING. IF SPACE IS LIMITED, USE THE INSTRUCTIONS IN STEP 10 TO EXHAUST DIRECTLY FROM THE SIDE OR THE BOTTOM OF THE CABINET.



NOTE: WE STRONGLY RECOMMEND SOLID METAL EXHAUST DUCTING. HOWEVER, IF FLEXIBLE DUCTING IS USED IT MUST BE UL-LISTED METAL NOT PLASTIC.



NOTE: ELBOWS WILL PREVENT DUCT KINKING AND COLLAPSING.

CONNECTING THE DRYER TO HOUSE VENT RIGID METAL TRANSITION DUCT

- For best drying performance, a rigid metal transition duct is recommended.
- Rigid metal transition ducts reduce the risk of crushing and kinking.

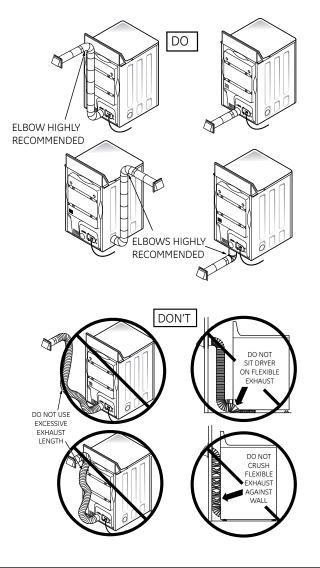
UL-LISTED FLEXIBLE METAL (SEMI-RIGID) TRANSITION DUCT

- If rigid metal duct cannot be used, then UL-listed flexible metal (semi-rigid) ducting can be used (Kit WX08X10077).
- Never install flexible metal duct in walls, ceilings, floors or other enclosed spaces.
- Total length of flexible metal duct should not exceed 8 feet (2.4m).

- For many applications, installing elbows at both the dryer and the wall is highly recommended (see illustrations below). Elbows allow the dryer to sit close to the wall without kinking and or crushing the transition duct, maximizing drying performance.
- Avoid resting the duct on sharp objects.

UL-LISTED FLEXIBLE METAL (FOIL-TYPE) TRANSITION DUCT

- In special installations, it may be necessary to connect the dryer to the house vent using a flexible metal (foiltype) duct. A UL-listed flexible metal (foil-type) duct may be used ONLY in installations where rigid metal or flexible metal (semi-rigid) ducting cannot be used AND where a 4" diameter can be maintained throughout the entire length of the transition duct.
- In Canada and the United States, only the flexible metal (foil-type) ducts that comply with the "Outline for Clothes Dryer Transition Duct Subject 2158A" shall be used.
- Never install flexible metal duct in walls, ceilings, floors or other enclosed spaces.
- Total length of flexible metal duct should not exceed 8 feet (2.4m).
- Avoid resting the duct on sharp objects.

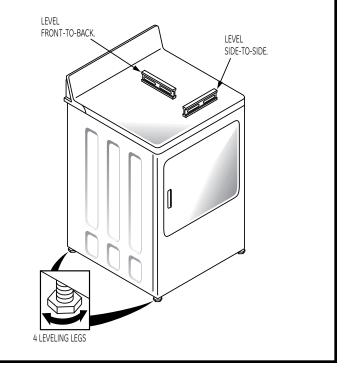


For best drying performance

- 1 Slide one end of the duct over the clothes dryer outlet pipe.
- 2. Secure the duct with a clamp.
- 3. With the dryer in its permanent position, extend the duct to its full length. Allow 2" of duct to overlap the exhaust pipe. Cut off and remove excess duct. Keep the duct as straight as possible for maximum airflow.
- 4. Secure the duct to the exhaust pipe with the other clamp.

5 LEVELING AND STABILIZING YOUR DRYER

Stand the dryer upright near the final location and adjust the 4 leveling legs, at the corners, to ensure that the dryer is level from side to side and front to rear.



6 ALCOVE OR CLOSET INSTALLATION

- If your dryer is approved for installation in an alcove or closet, it will be stated on a label on the dryer back.
- •The dryer **MUST** be vented to the outdoors. See the **EXHAUST INFORMATION** sections 3 & 4.
- Minimum clearance between dryer cabinet and adjacent walls or other surfaces is:
 - 0 in. either side
 - 3 in. front
 - 3 in. rear
- Minimum vertical space from floor to overhead cabinets, ceiling, etc. is 52 in.
- Closet doors must be louvered or otherwise ventilated and must contain a minimum of 60 sq. in. of open area equally distributed. If the closet contains both a washer and a dryer, doors must contain a minimum of 120 sq. in. of open area equally distributed.

7 BATHROOM OR BEDROOM INSTALLATION

- The dryer MUST be vented to the outdoors. See EXHAUST INFORMATION section 3 & 4.
- The installation must conform with local codes or, in the absence of local codes, with the NATIONAL ELECTRICAL CODE, ANSI/NFPA NO. 70.

8 MOBILE OR MANUFACTURED HOME INSTALLATION

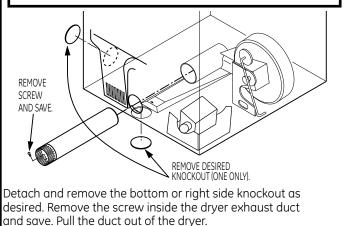
- Installation must conform to the MANUFACTURED HOME CONSTRUCTION & SAFETY STANDARD, TITLE 24, PART 32-80 or, when such standard is not applicable, with AMERICAN NATIONAL STANDARD FOR MOBILE HOME, ANSI/NFPA NO. 501B.
- The dryer MUST be vented to the outdoors with the termination securely fastened to the mobile home structure. (See EXHAUST INFORMATION section 3 & 4).
- The vent MUST NOT be terminated beneath a mobile or manufactured home.
- The vent duct material MUST BE METAL.
- Do not use sheet metal screws or other fastening devices which extend into the interior of the exhaust vent.
- See section 2 for electrical connection information.

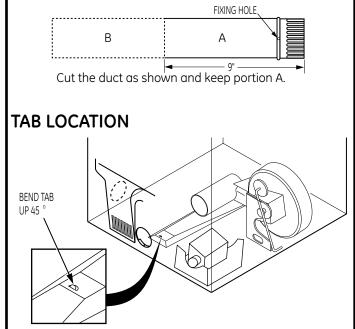
9 GARAGE INSTALLATION (IF ALLOWED BY LOCAL CODES)

• Dryers installed in garages must be elevated 18 inches (46cm) above the floor.

10 DRYER EXHAUST TO RIGHT OR BOTTOM CABINET

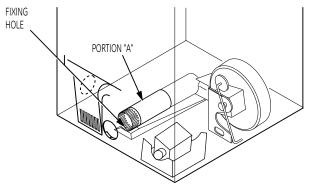
AWARNING - BEFORE PERFORMING THIS EXHAUST INSTALLATION, BE SURE TO DISCONNECT THE DRYER FROM ITS ELECTRICAL SUPPLY. PROTECT YOUR HANDS AND ARMS FROM SHARP EDGES WHEN WORKING INSIDE THE CABINET. BE SURE TO WEAR GLOVES.





Through the rear opening, locate the tab in the middle of the appliance base. Lift the tab to about 45° using a flat blade screwdriver.

ADDING NEW DUCT

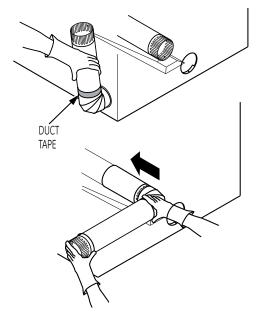


Reconnect the cut portion (A) of the duct to the blower housing. Make sure that the shortened duct is aligned with the tab in the base. Use the screw saved previously to secure the duct in place through the tab on the appliance base.

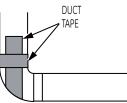
ADDING ELBOW AND DUCT FOR EXHAUST TO RIGHT SIDE OF CABINET

- Preassemble 4" elbow with 4" duct. Wrap duct tape around joint.
- Insert duct assembly, elbow first, through the side opening and connect the elbow to the dryer internal duct.

ACAUTION: Be sure not to pull or damage the electrical wires inside the dryer when inserting the duct.



• Apply duct tape as shown on the joint between the dryer internal duct and the elbow.

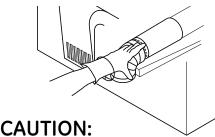


CAUTION:

Internal duct joints must be secured with tape, otherwise they may separate and cause a safety hazard.

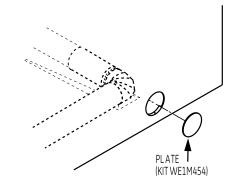
ADDING ELBOW FOR EXHAUST THROUGH BOTTOM OF CABINET

- Insert the elbow through the rear opening and connect it to the dryer internal duct.
- Apply duct tape on the joint between the dryer internal duct and elbow, as shown above.



Internal duct joints must be secured with tape, otherwise they may separate and cause a safety hazard.

ADDING COVER PLATE TO REAR OF CABINET (SIDES AND BOTTOM EXHAUST)

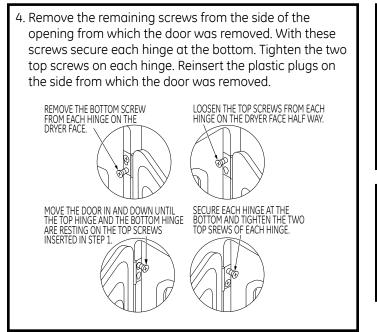


Connect standard metal elbows and ducts to complete the exhaust system. Cover back opening with a plate (Kit WE1M454) available from your local service provider. Place dryer in final location.

AWARNING-NEVER LEAVE THE BACK OPENING WITHOUT THE PLATE (KIT WE1M454).

11CHANGING DIRECTION OF DOOR OPENING (OPTIONAL)

- 1. Open the door and remove the filler plugs opposite the hinges. With the door completely open, remove the bottom screws from each hinge on the dryer face. Insert these screws about half way into the **TOP** holes, for each hinge on the opposite side (where you removed the filler plugs). Apply firm pressure to get the screw started.
- 2. Loosen the top screws from each hinge on the dryer face half way. With one hand holding the top of the door and the other hand holding the bottom, remove the door from the dryer by lifting it **UP** and **OUT**.
- 3. Rotate the door 180°. Insert the door on the opposite side of the opening by moving the door **IN** and **DOWN** until the top hinge and the bottom hinge are resting on the top screws inserted in step 1.



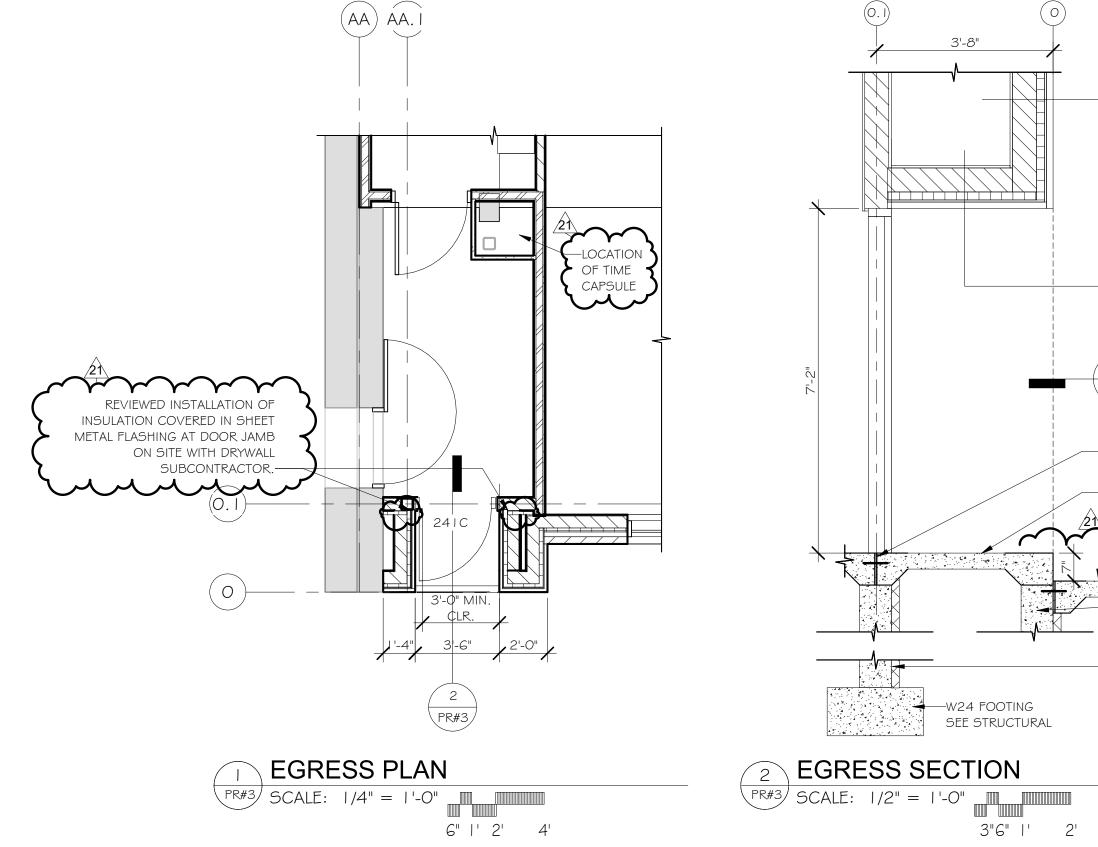
12 SERVICING

AWARNING-LABEL ALL WIRES PRIOR TO DISCONNECTING WHEN SERVICING CONTROLS. WIRING ERRORS CAN CAUSE IMPROPER AND DANGEROUS OPERATION AFTER SERVICING/INSTALLATION.

REGISTER YOUR NEW APPLIANCE TO RECEIVE ANY IMPORTANT PRODUCT NOTIFICATIONS.

Please go to **www.GEAppliances.com** or mail in your product registration card.

For questions on installation, call: 800.626.2000 (US) or 800-561-3344 (Canada).



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 <u>TYP. COMPOSITE METAL PANEL WALL</u> COMP. METAL PANEL SYSTEM WEATHER BARRIER 1/2" PLYWOOD FIRE RESISTANT SHEATHING "Z" GIRTS @ 2'-O" O.C. ATTACHED TO STUDS (MOUNTED HORIZONTALLY) 2" EXTERIOR ISO. INSULATION G" STEEL STUDS @ 1'-G" O.C. FULL INSULATION VAPOR BARRIER- SEE NOTE ON A-531 5/8" GYP. BD. <u>MAIN ENTRY EXTERIOR CEILING - SIM.</u> SEE NOTE ON 3/A-312 	PROJECT 77.01.1 DRAWN BY: MJO	CHECKED BY: BLM Shared vision. Innovative design.	DATE: MARSHALL 311 4th Street SW, P.O. Box 956, Willmar, MN 56201 10/10/19 07/07/20 320-235-0860 FAX: 320-235-0861 www.engan.com
A-533			
	MARSHALL	MUNICIPAL	MARSHALL, MN
 See Structural <u>TYP. FOUNDATION WALL- SEE NOTE ON 1/A-312</u> 8" CONCRETE -FOUNDATION WALL FW8 SEE STRUCTURAL ON S20B, SIMILAR 	EGRESS DOOR LOCATION		
	P	₽R#	3

Electrical Addendum:

Project Name: Marshall Municipal Building – Marshall, MN

Electrical Addendum: ASI#4

Date: November 11, 2020

Attachments: _____

The below addendum lists the ordering information for the floor boxes based on information provided by the A/V contractor. The only changes are updated to receptacle count due to requests by the A/V contractor as well as removal of floor boxes from rooms that no longer have A/V.

Item No. 1 – In Room 326, update floor box circuit to include (2) duplex receptacle. Floor box shall be Legrand 6AT2BK with the following device plates: (2) 68REC, and (1) 6ATC8A.

Item No. 2 – In Room 231, update floor box circuit to include (2) duplex receptacle. Floor box shall be Legrand 6AT2BK with the following device plates: (2) 68REC, and (1) 6ATC8A.

Item No. 3 – In Room 217, floor box shall be Legrand 6AT2BK with the following device plates: (1) 68REC, (1) 68B, and (1) 6ATC8A.

Item No. 4 – In Room 218, (3) floor boxes for dais shall be Legrand 6AT2BK with the following device plates: (2) 68REC, (1) 6ATC8A. Floor boxes for lectern shall be Legrand 6AT2BK with the following device plates: (2) 68REC, (1) 6ATC8A. Floor boxes for department head shall be Legrand 6AT2BK with the following device plates: (2) 68REC, (1) 6ATC8A.

Item No. 5 – In Room 219, update circuits so that AV rack has (2) quadplex receptacles on separate 20A circuits powered by Circuit #45 and #47 in LP20.

Item No. 6 – In Room 350, update circuits so that AV rack location has (1) quadplex receptacle on separate 20A circuit powered by Circuit #41 in LP30. Coordinate location with A/V Contractor.

Item No. 7 – In Room 350, update floor box circuit to include (2) duplex receptacle. Floor box shall be Legrand 6AT2BK with the following device plates: (2) 68REC, and (1) 6ATC8A.

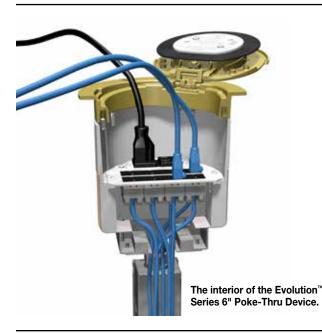
Item No. 8 – In Room 348, update floor box circuit to include (2) duplex receptacle. Floor box shall be Legrand 6AT2BK with the following device plates: (2) 68REC, and (1) 6ATC8A.

Item No. 9 – Remove floor box in room 349.

Item No. 10 – Remove floor box in room 320.

La legrand[®]

WIREMOLD® Evolution[™] Series 6" Poke-Thru Devices



Evolution Series – The Most Innovative Poke-Thru Devices in the Market

Designed for retrofit and new construction, Evolution Series 6" Poke-Thru devices provide convenient access to power, communications, and audio/video services recessed below floor level - providing maximum device protection. With three gangs of capacity that allow you to configure services for the needs of your space, services can be placed in any location within the unit.

The low-profile durable metal covers are available in seven finishes, designed to match any space. The cover also features sliding doors that allow cables to neatly egress from the unit, protecting cables while reducing tripping hazards.

Evolution Series 6" Poke-Thru devices are the perfect fit for meeting and training rooms, classrooms, healthcare facilities or commercial buildings with open-space architecture

Features & Benefits

- Recessed devices. Three (3) compartments for power, communications, and/or A/V devices, all recessed 4" (102mm) below the floor level, providing maximum protection and device longevity.
- **Die-cast aluminum cover assemblies.** The Evolution Series poke-thru design includes all metal die-cast aluminum cover assemblies, available in powder coated finishes of black, brass, gray, nickel, bronze, and aluminum, as well as a brushed aluminum, satin brass plated and satin nickel plated finishes.
- **A/V compatible design.** The 6AT Series devices are designed to work with with Legrand's AVIP devices. Also compatible with most A/V manufacturers devices including their 1-gang decorator style design.
- Flush tile version cover assemblies. A flush style cover for tile applications allows the Evolution Series Poke-Thru Devices to be adjusted to the same level as the top surface of the floor covering. The tile cover is designed to be used in higher traffic applications, where a low profile is a must.
- Auto-close egress doors. Egress doors lock in position when slid open and automatically close around cables, reducing the egress opening to the smallest size possible.
- **Improved hinge design.** Provides greater durability while creating a more fluid, intuitive, opening and closing motion.

Vertical Markets

- CommercialHospitality
- EducationEntertainment
- Retail

Healthcare

Compliance

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cULus Listed, Metallic Outlet Box File Number E2961. Guide QCIT. cULus Listed Nonmetallic Outlet Boxes & Fittings Classified for Fire Resistance: File R8209, Guide CEYY.

- **"Step-on-it" installation.** Quick, easy installation without the need for additional fasteners or a second installer.
- Added furniture feed capacity. The 6ATCFF Series Poke-Thru Device offers the largest dual service furniture feed capability on the market.
- **Pre-pour sleeve.** Creates a cast-in-place core hole that allows the contractor to position poke-thru units before concrete is poured. Eliminates the cost and labor of coring the opening.
- **TopGuard[™] Protection.** All Evolution Series Poke-Thru Devices, like every Wiremold Poke-Thru Device, meet and exceed UL scrub water exclusion requirements for tile, carpet, and wood covered floors.
- Meets ADA Accessibility Guidelines. Wide trim flange is designed to meet the ADA Accessibility Guidelines as it pertains to ADA Standard 4.5 which addresses changes in floor and ground surface levels. The poke-thru trim flanges are beveled so the slope is no greater than 1:2 ratio.
- Suitable for use in air handling spaces. In accordance with Sec 300-22(C) of the National Electrical Code.
- UL Listed and UL Fire Classified to U.S. and Canadian safety standards. UL Fire rated for up to 2-hour rated floors maintains the fire classification of the floor.



Download this product's PEP ecopasport_® environmental product declaration at www.legrand.us/resources-and-downloads. This declaration conforms with ISO 14025 and 14040 and is in alignment with EN 15804.

For more information or to configure your own Evolution™ Series Poke-Thru Device, visit our online configurator at:

www.legrand.us/wiremold/evolution.



Cabling Specifications

Copper Cross Section:

The copper cross-sectional area determines the amount of wire fill capacity in a poke-thru device. Unlike other wire and cable management systems that utilize wire fill capacity, a poke-thru device is UL tested under fire conditions to determine the maximum amount of copper conductors that will pass through a poke-thru device, while maintaining the fire-rating of the floor assembly. All Legrand Poke-Thru Devices are UL Classified to U.S. and Canadian safety standards.

6AT COPPER CROSS-SECTION

	OUTER CHANNELS	CENTER CHANNEL
Max Copper X-Section	0.0154 sq. in. (9.9mm²)	0.0387 sq. in. (24.97 mm²)
Max # Conductors	(3) 12 AWG	(12) 14 AWG

6ATCFF COPPER CROSS-SECTION -FURNITURE FEED POKE-THRU DEVICES

	POWER	DATA CHANNEL	DATA CHANNEL
	CHANNEL	(CENTER)	(OUTSIDE)
Max Copper	0.0815 sq. in.	0.0686 sq. in.	0.0187 sq. in.
X-Section	(52.6mm²)	(44.3 mm²)	(12.1 mm²)
Max # Conductors	(10) 10 AWG	(22) Cat. 6a	(5) Cat. 6a

NOTE: When using conductor sizes other than listed above, the aggregate cross-sectional area of the copper conductors shall not exceed the cross-sectional area listed.

Flooring Specifications

6AT CORE HOLE SIZES

FLOOR TYPE	CORE SIZE (Min.)		CORE SIZE (Max.)		
Covered Floors (Carpet, Tile or Wood)	6"	(152mm)	6 1/8"	(154mm)	
Bare Concrete or Terrazzo	6"	(152mm)	6 1/8"	(154mm)	

Copper Cross-Sectional Area of Commonly Used Conductors					
Size	So	lid			
#24	0.00032 sq. in.	(.206mm²)			
#23	0.00040 sq. in.	(.258mm²)			
#22	0.00050 sq. in.	(.322mm²)			
#14	0.00323 sq. in.	(2.083mm²)			
#12	0.00512 sq. in.	(3.303mm²)			
#10	0.00815 sq. in.	(5.258mm²)			
# 8	0.01296 sq. in.	(8.361mm²)			

NOTE: Use above values for solid or stranded conductors.

CAUTION: These devices are suitable for 1-, 1 1/2-, and 2-hour rated floor assemblies as described in the UL Fire Resistance directory for each service. These devices meet all UL scrub water requirements,

but are not suitable for wet or damp locations, or other areas subject to saturation with water or other liquids, such as commercial kitchens.

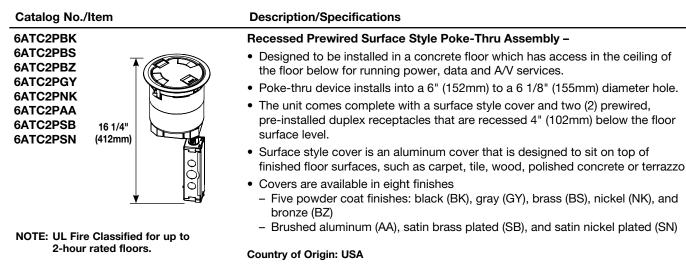
Floor Coverings: The poke-thru device is fire rated for concrete floor coverings. For floor coverings greater than 1" (25mm), consult factory.

UL Certification: To view the UL certification, please visit www.UL.com/Database. Enter "Wiremold" as the company name and "CEYY" as the UL Category Code.

Poke-thru devices and abandonment fittings are for use with 1-, 1 1/2-, or 2-hour rated unprotected reinforced concrete floor and 1-, 1 1/2- or 2-hour rated floors employing unprotected steel floor units and concrete topping (D900-Series Designs), or concrete floors with suspended ceilings. (Fire resistive designs with suspended ceilings should have provisions for accessibility in the ceiling area below the poke-thru fittings.)

The assembled Poke-Thru stem and service fitting or the abandonment fittings will not reduce the ratings of the floor assembly when the thickness and type of concrete (required for the specific rating) are within the specified limits and the fittings are installed as specified:

- **1. Spacing** Minimum of 2' (610mm) OC and not more than one unit per 65 square feet (6 square meters) of floor area in each span.
- 2. Concrete Minimum thickness of structural concrete topping of 2 1/4" (57mm) over metal deck or a minimum 3" thick reinforced concrete slab. Unit weight of concrete to be 110 to 155 pcf.
- 3. Installation Mounted in a 6" (152mm) diameter core drilled hole in concrete per installation instructions accompanying the fittings or abandonment fittings. For use with power circuits, data and/or telephone cables as tabulated below.
- NOTE: The material that is used in Wiremold[®] poke-thru devices is not listed under the directory for Fire Stopping Material because the pokethru device is UL Classified as "Outlet Boxes and Fittings Classified For Fire Resistance (CEYY)". The pass/fail criteria comes from UL263. The pass criteria is that the poke-thru unit cannot exceed 325° F. above ambient before the concrete slab (or deck) reaches this same temperature. Some poke-thru devices are tested for 2 hours while others are tested for 4 hours. The intumescent material has never been tested as a fire-stopping material as a stand-alone device. This material is designed to work as a unit with the entire poke-thru device.



NOTE: Receptacles can be wired as a standard or isolated ground device.

INCLUDED

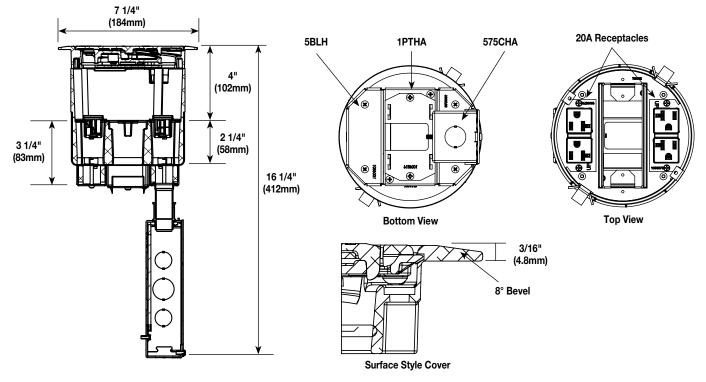
For Side Compartments:

• Two (2) proprietary 20A Duplex Receptacles installed

For Center Compartment:

- One (1) 6ACT8A Mounting Plate
- One (1) 6TRAC Mounting Plate
- One (1) 6SER Mounting Plate

- One (1) 5BLH 1/2-Gang Blank Housing*
- One (1) 1PTHA 1-Gang Pass-Through Housing Assembly
- One (1) 575CHA 1/2-Gang 3/4" Conduit Housing Assembly**

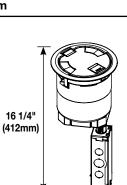


- NOTE: For more information on Device Plates and Bottom Feed Plates and on the additional options available, see the Device Plates and Bottom Feed Plates sections found later in this document.
- * Tunneling extends from the 5BLH to 575CHA so that power cables from the 20A duplex receptacle mounted
- on the left side of the poke-thru device are run into the junction box attached to the 575CHA.
- ** Also includes junction box attached to the 3/4" conduit.



Catalog No./Item

6ATC2PCRBK 6ATC2PCRBS 6ATC2PCRBZ 6ATC2PCRGY 6ATC2PCRNK 6ATC2PCRAA 6ATC2PCRSB 6ATC2PCRSN



- NOTE: UL Fire Classified for up to 2-hour rated floors.
- NOTE: Receptacles can be wired as a standard or isolated ground device.

7 1/4"

Description/Specifications

Recessed Prewired Surface Style Poke-Thru Assembly -

- Designed to be installed in a concrete floor which has access in the ceiling of the floor below for running power, data and A/V services.
- Poke-thru device installs into a 6" (152mm) to a 6 1/8" (155mm) diameter hole.
- The unit comes complete with a surface style cover and one (1) prewired, preinstalled duplex receptacle and one 20A proprietary duplex receptacle marked with a permanent "Controlled Receptacle" marking that are recessed 4" (102mm) below the floor surface level.
- Surface style cover is an aluminum cover that is designed to sit on top of finished floor surfaces, such as carpet, tile, wood, polished concrete or terrazzo
- · Covers are available in eight finishes
 - Five powder coat finishes: black (BK), gray (GY), brass (BS), nickel (NK), and bronze (BZ)
 - Brushed aluminum (AA), satin brass plated (SB), and satin nickel plated (SN)

Country of Origin: USA

INCLUDED

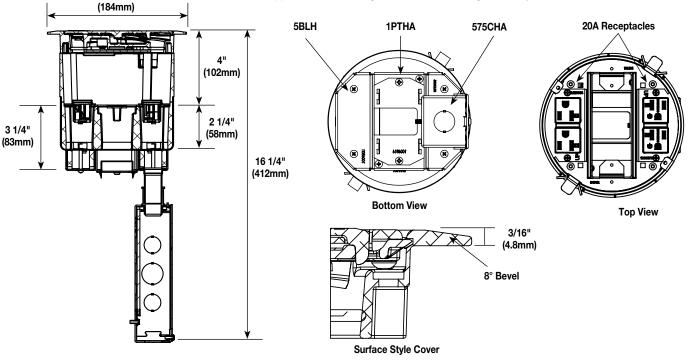
For Side Compartments:

- One (1) proprietary 20A Duplex Receptacle
- One (1) proprietary 20A Duplex Receptacle marked with a permanent "Controlled Receptacle"

For Center Compartment:

- One (1) 6ACT8A Mounting Plate
- One (1) 6TRAC Mounting Plate
- One (1) 6SER Mounting Plate

- One (1) 5BLH 1/2-Gang Blank Housing*
- One (1) 1PTHA 1-Gang Pass-Through Housing Assembly
- One (1) 575CHA 1/2-Gang 3/4" Conduit Housing Assembly**



- NOTE: For more information on Device Plates and Bottom Feed Plates and on the additional options available, see the Device Plates and Bottom Feed Plates sections found later in this document.
- * Tunneling extends from the 5BLH to 575CHA so that power cables from the 20A duplex receptacle mounted on the left side of the poke-thru device are run into the junction box attached to the 575CHA.
- ** Also includes junction box attached to the 3/4" conduit.

NOTE: UL Fire Classified for up to 2-hour rated floors.

NOTE: Receptacles can be wired as a standard or isolated

ground device.

NOTE: Includes one (1) 6TS Tile Shim.

Evolution Series 6" Poke-Thru Devices Ordering Information

Catalog No./Item **Description/Specifications** 6AT2PBK Recessed Prewired Flush Style Poke-Thru Assembly -6AT2PBS · Designed to be installed in a concrete floor which has access in the ceiling of 6AT2PBZ the floor below for running power, data and A/V services. 6AT2PGY • Poke-Thru device installs into a 6" (152mm) to a 6 1/8" (155mm) diameter hole. 6AT2PNK • The unit comes complete with a flush style cover and two (2) prewired, pre-6AT2PAA installed duplex receptacles that are recessed 4" (102mm) below the floor 6AT2PSB 16 1/4" surface level. (412mm) 6AT2PSN · The flush style cover is an aluminum cover that is designed to sit flush with 0 finished floor coverings such as: carpet, tile, or wood. · Covers are available in eight finishes - Five powder coat finishes: black (BK), gray (GY), brass (BS), nickel (NK), and bronze (BZ)

- Brushed aluminum (AA), satin brass plated (SB), and satin nickel plated (SN)

Country of Origin: USA

INCLUDED

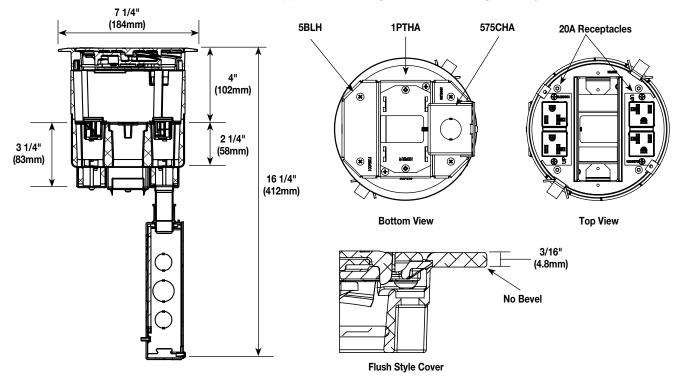
For Side Compartments:

• Two (2) proprietary 20A Duplex Receptacles installed

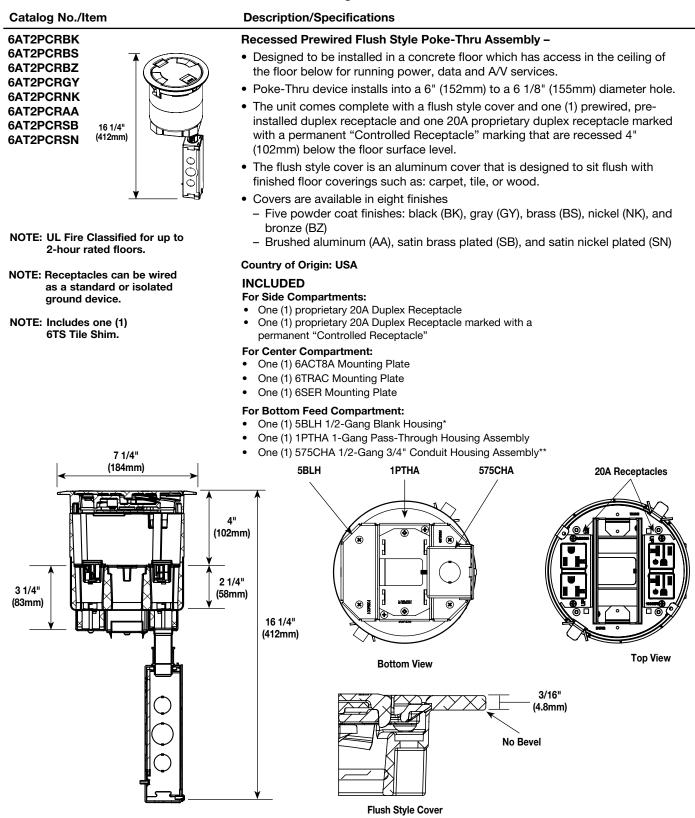
For Center Compartment:

- One (1) 6ACT8A Mounting Plate
- One (1) 6TRAC Mounting Plate
- One (1) 6SER Mounting Plate

- One (1) 5BLH 1/2-Gang Blank Housing*
- One (1) 1PTHA 1-Gang Pass-Through Housing Assembly
- One (1) 575CHA 1/2-Gang 3/4" Conduit Housing Assembly**



- NOTE: For more information on Device Plates and Bottom Feed Plates and on the additional options available, see the Device Plates and Bottom Feed Plates sections found later in this document.
- * Tunneling extends from the 5BLH to 575CHA so that power cables from the 20A duplex receptacle mounted on the left side of the poke-thru device are run into the junction box attached to the 575CHA.
- on the left side of the poke-thru device are run into the junction box attached to the 5/3
- ** Also includes junction box attached to the 3/4" conduit.



- NOTE: For more information on Device Plates and Bottom Feed Plates and on the additional options available, see the Device Plates and Bottom Feed Plates sections found later in this document.
- * Tunneling extends from the 5BLH to 575CHA so that power cables from the 20A duplex receptacle mounted on the left side of the poke-thru device are run into the junction box attached to the 575CHA.
- ** Also includes junction box attached to the 3/4" conduit.

Catalog No./Item

6ATC2BK 6ATC2BS 6ATC2BZ 6ATC2GY 6ATC2NK 6ATC2NK 6ATC2SB 6ATC2SN



- NOTE: UL Fire Classified for up to 2-hour rated floors.
- NOTE: Receptacles can be wired as a standard or isolated ground device.

Description/Specifications

Recessed Unwired Surface Style Poke-Thru Assembly -

- Designed to be installed in a concrete floor which has access in the ceiling of the floor below for running power, data and audio/video services.
- Poke-thru device installs into a 6" (152mm) to a 6 1/8" (155mm) diameter hole.
- The unit comes with a surface style cover, and three (3) empty compartments that are recessed 4" (102mm) below the floor surface level, and can be configured to accept power, data, or A/V devices.
- The surface style cover is an aluminum cover that is designed to sit on top of finished floor surfaces such as: carpet, tile, wood, polished concrete or terrazzo.
- · Covers are available in eight finishes
 - Five powder coat finishes: black (BK), gray (GY), brass (BS), nickel (NK), and bronze (BZ)
 - Brushed aluminum (AA), satin brass plated (SB), and satin nickel plated (SN)

Country of Origin: USA

INCLUDED

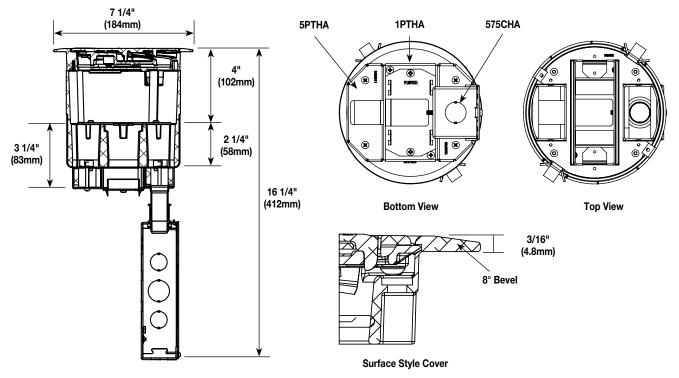
For Side Compartments:

No Device Plates are included

For Center Compartment:

No Device Plates are included

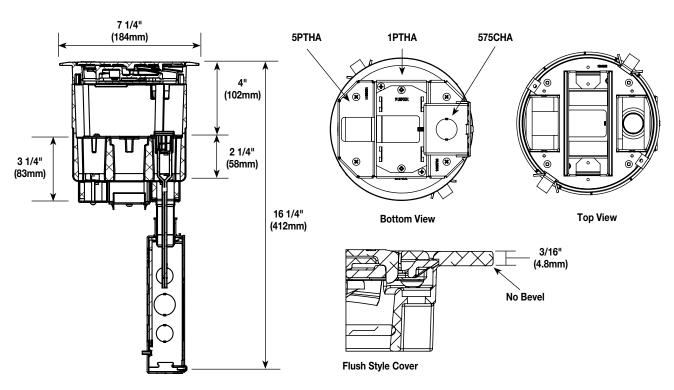
- One (1) 5PTHA 1/2-Gang Pass-Through Housing Housing
- One (1) 1PTHA 1-Gang Pass-Through Housing Assembly
- One (1) 575CHA 1/2-Gang 3/4" Conduit Housing Assembly**



- NOTE: For more information on Device Plates and Bottom Feed Plates and on the additional options available, see the Device Plates and Bottom Feed Plates sections found later in this document.
 - ** Also includes junction box attached to the 3/4" conduit.

Catalog No./Item **Description/Specifications** 6AT2BK Recessed Unwired Flush Style Poke-Thru Assembly -6AT2BS · Designed to be installed in a concrete floor which has access in the ceiling of 6AT2BZ the floor below for running power, data and A/V services. 6AT2GY • Poke-thru device installs into a 6" (152mm) to a 6 1/8" (155mm) diameter hole. 6AT2NK • The unit comes complete with a flush style cover, and three (3) empty 6AT2AA compartments that are recessed 4" (102mm) below the floor surface level and 6AT2SB can be configured to accept power, data, or audio/video devices. 16 1/4" 6AT2SN (412mm) • The flush style cover is an aluminum cover that is designed to sit flush with finished floor coverings such as: carpet, tile, or wood · Covers are available in eight finishes - Five powder coat finishes: black (BK), gray (GY), brass (BS), nickel (NK), and bronze (BZ) Brushed aluminum (AA), satin brass plated (SB), and satin nickel plated (SN) _ NOTE: UL Fire Classified for up to 2-hour rated floors. **Country of Origin: USA** NOTE: Receptacles can be wired as a standard or isolated INCLUDED ground device. For Side Compartments: No Device Plates are included NOTE: Includes one (1) For Center Compartment: 6TS Tile Shim. No Device Plates are included For Bottom Feed Compartment: One (1) 5PTHA 1/2-Gang Pass-Through Housing Assembly ٠

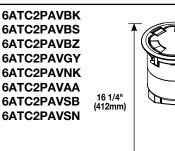
- One (1) 1PTHA 1-Gang Pass-Through Housing Assembly
- One (1) 575CHA 1/2-Gang 3/4" Conduit Housing Assembly** •



- NOTE: For more information on Device Plates and Bottom Feed Plates and on the additional options available, see the Device Plates and Bottom Feed Plates sections found later in this document.
 - Also includes junction box attached to the 3/4" conduit.

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Catalog No./Item



NOTE: UL Fire Classified for up to 2-hour rated floors.

NOTE: Receptacles can be wired as a standard or isolated

ground device.

Description/Specifications

Recessed Prewired A/V Surface Style Poke-Thru Assembly –

- Designed to be installed in a concrete floor which has access in the ceiling of the floor below for running power, data and A/V services.
- Poke-thru device installs into a 6" (152mm) to a 6 1/8" (155mm) diameter hole.
- The unit comes complete with a surface style cover, one (1) pre-wired, preinstalled duplex receptacle and various low voltage and AV devices plates.
- All of the devices are recessed 4" (102mm) below the floor surface level.
- The surface style cover is an aluminum cover that is designed to sit on top of finished floor surfaces, such as: carpet, tile, wood, polished concrete or terrazzo.
- · Covers are available in eight finishes
- Five powder coat finishes: black (BK), gray (GY), brass (BS), nickel (NK), and bronze (BZ)
- Brushed aluminum (AA), satin brass plated (SB), and satin nickel plated (SN)

Country of Origin: USA

INCLUDED

For Side Compartments:

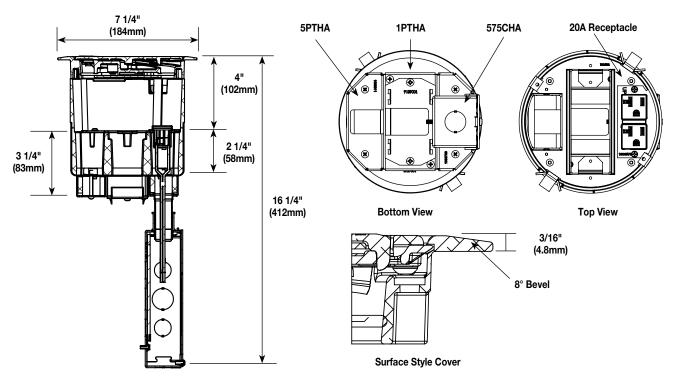
- One (1) proprietary 20A Duplex Receptacle installed
- 682A Device Plate (Not shown)
- 68MAAP Device Plate (Not shown)

For Center Compartment:

- 6DEC Mounting Plate (Not shown)
- 6AAP Mounting Plate (Not shown)
- 6MAAP Device Plate (Not shown)

For Bottom Feed Compartment:

- One (1) 5PTHA 1/2-Gang Pass-Through Housing Assembly
- One (1) 1PTHA 1-Gang Pass-Through Housing Assembly
- One (1) 575CHA 1/2-Gang 3/4" Conduit Housing Assembly**



NOTE: For more information on Device Plates and Bottom Feed Plates and on the additional options available, see the Device Plates and Bottom Feed Plates sections found later in this document.

** Also includes junction box attached to the 3/4" conduit.



Catalog No./Item

6AT2PAVBK 6AT2PAVBS 6AT2PAVBZ 6AT2PAVBZ 6AT2PAVQY 6AT2PAVNK 6AT2PAVSB 16 1/4" 6AT2PAVSB (412mm)

- NOTE: UL Fire Classified for up to 2-hour rated floors.
- NOTE: Receptacles can be wired as a standard or isolated ground device.
- NOTE: Includes one (1) 6TS Tile Shim.

Dessent Drawing A // Elucit State Dates Three A

- Recessed Prewired A/V Flush Style Poke-Thru Assembly –
- Designed to be installed in a concrete floor which has access in the ceiling of the floor below for running power, data and audio/video services.
- Poke-thru device installs into a 6" (152mm) to a 6 1/8" (155mm) diameter hole.
- The unit comes complete with a flush style cover, one (1) pre-wired, pre-installed duplex receptacle, and various low voltage and AV devices plates.
- All of the devices are recessed 4" (102mm) below the floor surface level.
- The flush style cover is an aluminum cover that is designed to sit flush with finished floor coverings such as: carpet, tile, or wood.
- · Covers are available in eight finishes

Description/Specifications

- Five powder coat finishes: black (BK), gray (GY), brass (BS), nickel (NK), and bronze (BZ)
- Brushed aluminum (AA), satin brass plated (SB), and satin nickel plated (SN)

Country of Origin: USA

INCLUDED

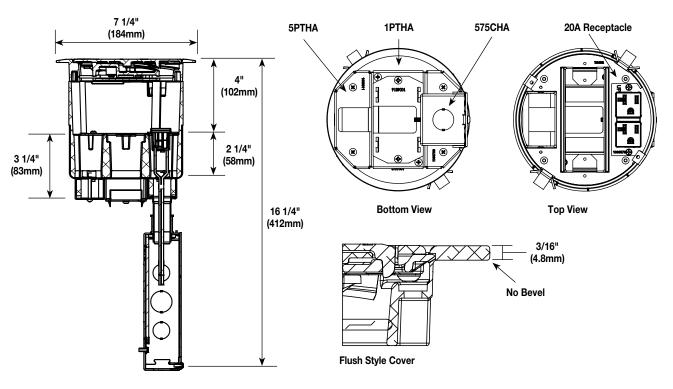
For Side Compartments:

- One (1) proprietary 20A Duplex Receptacle installed
- 682A Device Plate
- 68MAAP Device Plate

For Center Compartment:

- 6DEC Mounting Plate
- 6AAP Mounting Plate
- 68MAAP Device Plate

- One (1) 5PTHA 1/2-Gang Pass-Through Housing Assembly
- One (1) 1PTHA 1-Gang Pass-Through Housing Assembly
- One (1) 575CHA 1/2-Gang 3/4" Conduit Housing Assembly**



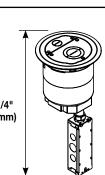
- NOTE: For more information on Device Plates and Bottom Feed Plates and on the additional options available, see the Device Plates and Bottom Feed Plates sections found later in this document.
 - ** Also includes junction box attached to the 3/4" conduit.

Catalog No./Item

6ATCFFBK 6ATCFFBS 6ATCFFBZ 6ATCFFGY 6ATCFFNK 6ATCFFAA

> 16 1/4" (412mm)

NOTE: UL Fire Classified for up to 2-hour rated floors.



Furniture Feed Assembly with Surface Style Cover –

- Designed to be installed in a concrete floor which has access in the ceiling of the floor below for running power, data and A/V services.
- Poke-thru device installs into a 6" (152mm) to a 6 1/8" (155mm) diameter hole.
- The unit comes complete with a surface style cover that includes one (1) 3/4" trade size screw plug opening and one (1) concentric 2"-1 1/4" trade size screw plug opening.
- The surface style cover is an aluminum cover that is designed to sit on top of finished floor surfaces, such as: carpet, tile, wood, polished concrete or terrazzo.
- Covers are available in eight finishes
 - Five powder coat finishes: black (BK), gray (GY), brass (BS), nickel (NK), and bronze (BZ)
 - Brushed aluminum (AA)

Description/Specifications

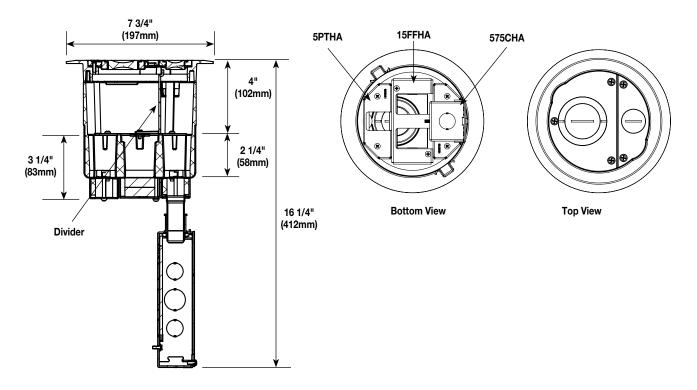
Country of Origin: USA

INCLUDED

- For Side Compartments:
- No Device Plates are included
- For Center Compartment:
- No Device Plates are included

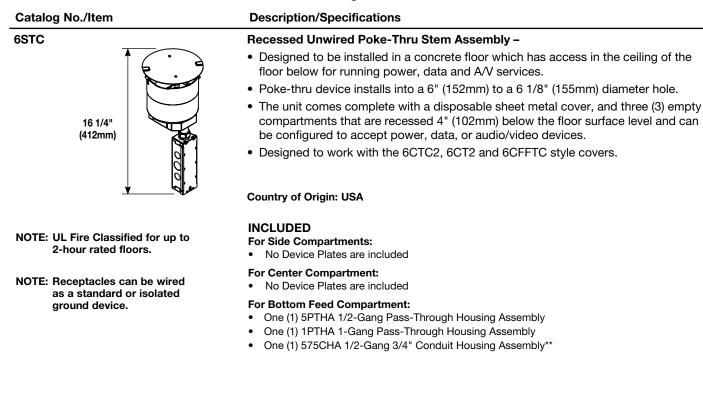
For Bottom Feed Compartment:

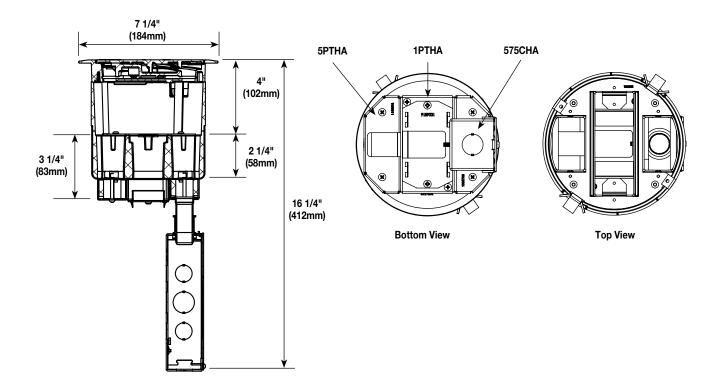
- One (1) 5PTHA 1/2-Gang Pass-Through Housing Assembly
- One (1) 15FFHA 1-Gang Pass-Through Housing Assembly
- One (1) 575CHA 1/2-Gang 3/4" Conduit Housing Assembly**



NOTE: For more information on Device Plates and Bottom Feed Plates and on the additional options available, see the Device Plates and Bottom Feed Plates sections found later in this document.

** Also includes junction box attached to the 3/4" conduit.



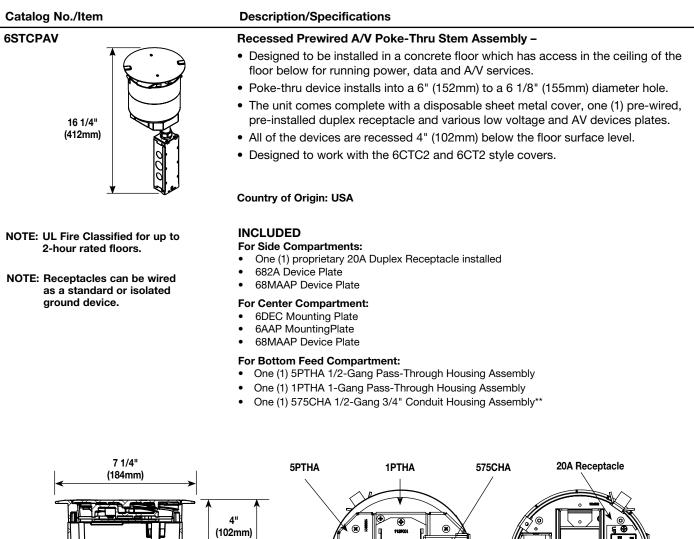


- NOTE: For more information on Device Plates and Bottom Feed Plates and on the additional options available, see the Device Plates and Bottom Feed Plates sections found later in this document.
 - ** Also includes junction box attached to the 3/4" conduit.

3 1/4"

(83mm)

Evolution Series 6" Poke-Thru Devices Ordering Information



- NOTE: For more information on Device Plates and Bottom Feed Plates and on the additional options available, see the Device Plates and Bottom Feed Plates sections found later in this document.
 - ** Also includes junction box attached to the 3/4" conduit.

2 1/4"

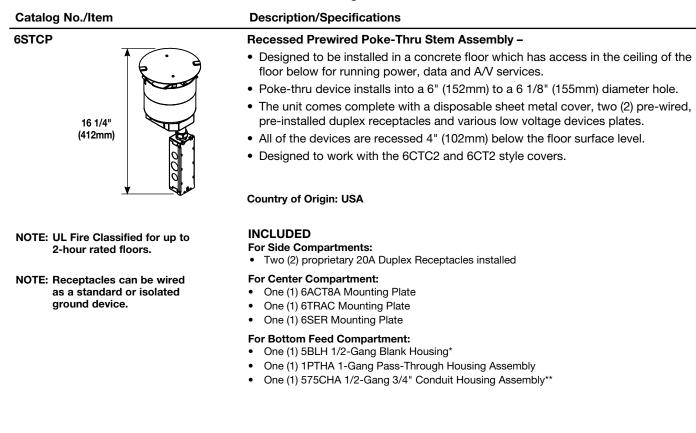
(58mm)

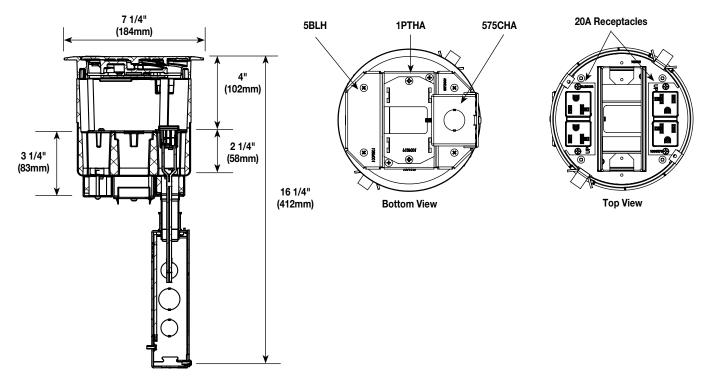
16 1/4" (412mm)

Bottom View

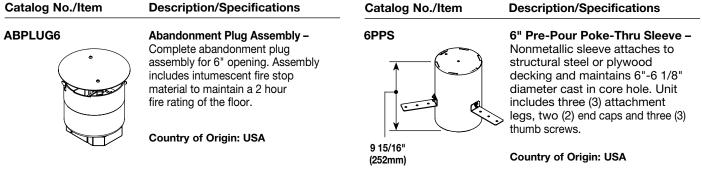
6

Top View



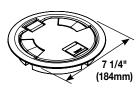


- NOTE: For more information on Device Plates and Bottom Feed Plates and on the additional options available, see the Device Plates and Bottom Feed Plates sections found later in this document.
 - ** Also includes junction box attached to the 3/4" conduit.



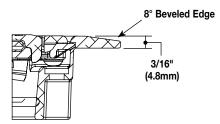
Evolution Series 6" Poke-Thru Devices Cover Assemblies Ordering Information

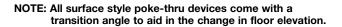
Catalog No./Item
6CTC2BK
6CTC2BS
6CTC2GY
6CTC2NK
6CTC2BZ
6CTC2AA
6CTC2SB
6CTC2SN



Description/Specifications Surface Style Cover Assembly -Low profile cover designed to attach to the 6STC, 6STCP, and 6STCPAV Poke-Thru Stem Assemblies. Each cover is made from die-cast aluminum materials and equipped with a durable hinge which allows the cover to rotate open 180°, two (2) slide egress doors that lock in the open position and auto close around the cables when the covers are closed, an 8° beveled edge that meets ADA guidelines and reduces tripping hazards. These covers are designed to sit on top of finished floor surfaces such as: carpet, tile, wood, polished concrete and terrazzo. Available in five (5) aesthetic powder coated finishes: black (BK), brass (BS), gray (GY), nickel (NK), bronze (BZ) and three metal finishes: brushed aluminum (AA), satin brass plated (SB) and satin nickel plated (SN).

Country of Origin: India or Mexico



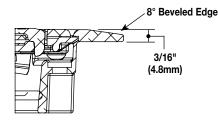


	(252mm)	Country of Orgin. USA					
r A	Assemblies Ordering Information						
	Catalog No./Item	Description/Specifications					
-	6CTC2BKTR	Tamper-Resistant Surface Style					
	6CTC2BSTR	Cover Assembly – Low profile					
	6CTC2GYTR	cover designed to attach to the					
	6CTC2NKTR	6STC, 6STCP, and 6STCPAV					
	6CTC2BZTR	Poke-Thru Stem Assemblies.					
;	6CTC2AATR	Each cover is made from die-cast					
	6CTC2SBTR	aluminum materials and equipped					
	6CTC2SNTR	with a tamper-resistant screw to					
		keep out unauthorized personnel,					
n		a durable hinge which allows the					
		cover to rotate open 180°, two (2)					
		slide egress doors that lock in the					
		open position and auto close					
es		around the cables when the covers					
~		are closed on 9° bevelod odge					



6STC, 6STCP, and 6STCPAV Poke-Thru Stem Assemblies. Each cover is made from die-cast aluminum materials and equipped with a tamper-resistant screw to keep out unauthorized personnel, a durable hinge which allows the cover to rotate open 180°, two (2) slide egress doors that lock in the open position and auto close around the cables when the covers are closed, an 8° beveled edge that meets ADA guidelines and reduces tripping hazards. These covers are designed to sit on top of finished floor surfaces such as: carpet, tile, wood, polished concrete and terrazzo. Available in five (5) aesthetic powder coated finishes: black (BK), brass (BS), gray (GY), nickel (NK), bronze (BZ) and three metal finishes: brushed aluminum (AA), satin brass plated (SB) and satin nickel plated (SN).

Country of Origin: India or Mexico

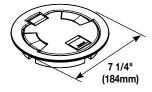


NOTE: All surface style poke-thru devices come with a transition angle to aid in the change in floor elevation.



Evolution Series 6" Poke-Thru Devices Cover Assemblies Ordering Information

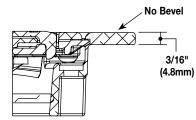
Catalog No./Item
6CT2BK
6CT2BS
6CT2GY
6CT2NK
6CT2BZ
6CT2AA
6CT2SB 6CT2SN
001231



Flush Style Cover Assembly -Low profile covers that are designed to attach to the 6STC, 6STCP, and 6STCPAV Poke-Thru Stem Assemblies. Each cover is made from die-cast aluminum materials and equipped with a durable hinge which allows the cover to rotate open 180°, two (2) slide egress doors that lock in the open position and auto close around the cables when the covers are closed. These covers are designed to sit flush with finished floor coverings such as: carpet, tile, and wood. Available in five (5) aesthetic powder coated finishes: black (BK), brass (BS), gray (GY), nickel (NK), bronze (BZ) and three metal finishes: brushed aluminum (AA), satin brass plated (SB) and satin nickel plated (SN).

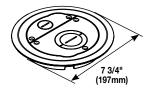
Description/Specifications

Country of Origin: India or Mexico



NOTE: Includes 6TS Tile Shim.

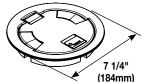
6CFFTCBK 6CFFTCBS 6CFFTCGY 6CFFTCNK 6CFFTCBZ 6CFFTCAA



Furniture Feed Cover Assembly –

Surface style, die-cast aluminum cover assembly, with one (1) 3/4" trade size screw plug opening, and one (1) concentric 2"-1 1/4" trade size screw plug opening. Cover assembly is available in five (5) powder coated finishes: black (BK), gray(GY), nickel (NK), brass (BS), bronze (BZ) and also available in Brushed Aluminum (AA). 6CFFTC Series Cover Assemblies designed for use with 6STC Poke-Thru Stem Assembly. Includes one (1) 3/4" and one (1) 2" trade size conduit fittings and one (1) divider to separate services.

Country of Origin: USA

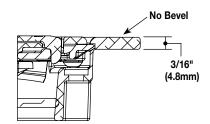


Tamper-Resistant Flush Style Cover Assembly - Low profile covers that are designed to attach to the 6STC, 6STCP, and 6STCPAV Poke-Thru Stem Assemblies. Each cover is made from die-cast aluminum materials and equipped with a tamper-resistant screw to keep out unauthorized personnel, a durable hinge which allows the cover to rotate open 180°, two (2) slide egress doors that lock in the open position and auto close around the cables when the covers are closed. These covers are designed to sit flush with finished floor coverings such as: carpet, tile, and wood. Available in five (5) aesthetic powder coated finishes: black (BK), brass (BS), gray (GY), nickel (NK), bronze (BZ) and three metal finishes: brushed aluminum (AA), satin brass plated

Description/Specifications

Country of Origin: India or Mexico

(SB) and satin nickel plated (SN).



NOTE: Includes 6TS Tile Shim.

6TS



Tile Shim – Used for floor coverings greater than 3/16" (4.8mm). The 6TS will allow the top surface of the cover to be flush with the finished floor. Includes: six (6) 1/16" (1.6mm) thick shims. Up to a total of 3/8" (9.5mm) of adjustment.

Country of Origin: USA

Evolution Series 6" Poke-Thru Devices Center Mount Device Plates Ordering Information

Catalog No./Item

Description/Specifications

6AAP

6ACT8A

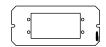
6B

6DEC

6DP

6MAAP

6MAAP2A



Device Mounting Plate – Device plate that will accept up to two (2) Extron[®] Electronics AAP style plates. For use in the center compartment only. Devices supplied by others.

Country of Origin: USA

Device Mounting Plate - Device plate that will accept up to eight (8) ports of communication devices. For use in the center compartment only. Devices supplied by others.

Country of Origin: USA

Device Mounting Plate - Device plate used to blank off center compartment, when no devices are used.

Country of Origin: USA

Device Mounting Plate – Device plate that will accept Decorator style devices such as 20A receptacles, GFCIs, 106 adapters or A/V devices. For use in the center compartment only. Devices supplied by others.

plate that will accept standard 15A or 20A duplex receptacle, duplex Turnlok receptacle or 106 data adapter. For use in the center compartment only. Devices supplied by others. Country of Origin: USA

Device Mounting Plate – Device

Country of Origin: USA

Device Mounting Plate –

Combination device plate that will accept up to three (3) Legrand AVIP or Extron® Electronics MAAP style plates, and up to two (2) ports of communication devices. For use in the center compartment only. Devices supplied by others.

Country of Origin: USA

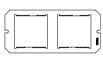
Catalog No./Item











Mosaic British Standard Device

NOTE: Not designed to accept adorne style devices.

Description/Specifications

Mosaic Device Plate - Device plate will accept two (2) standard

Plate - Device plate will accept two (2) Mosaic British standard devices (45mm x 45mm). For use in the center compartment only. Devices supplied by others.

Country of Origin: USA

NOTE: Not designed to accept adorne style devices.

Device Mounting Plate –

Receptacle opening 1 3/8" (35mm). For use in the center compartment only. For 6" pokethru units only.

Country of Origin: USA

Device Mounting Plate -

Receptacle opening 1 9/16" (40mm). For use in the center compartment only. For 6" pokethru units only.

Country of Origin: USA

Device Mounting Plate –

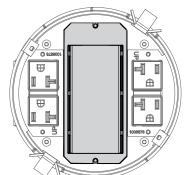
Device plate that will accept up to four (4) Ortronics[®] Series II dual modular inserts. For use in the center compartment only. Devices supplied by others.

Country of Origin: USA

Device Mounting Plate -

Device plate that will accept up to eight (8) Ortronics® TracJack devices. For use in the center compartment only. Devices supplied by others.

Country of Origin: USA



Country of Origin: USA Device Mounting Plate - Device

plate that will accept up to six (6) Legrand AVIP or Extron® Electronics MAAP style plates. For use in the center compartment only. Devices supplied by others.

ED1763R4 — Updated April 2019 — For latest specs visit www.legrand.us/wiremold

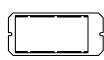




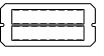








6TRAC



6AT Center Mount Device Plate Mounting Location

Mounting plates on this page can be installed in the shaded location indicated in this illustration.

6S1









Evolution Series 6" Poke-Thru Devices Side Mount Device Plates Ordering Information

Catalog No./Item

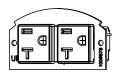
Description/Spec

device.

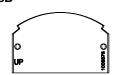
used.

others.

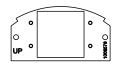
68REC



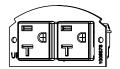
68B



68MAAP



68REC-25



Description/Specifications

20A Duplex Receptacles -

Two (2) proprietary 20A duplex

8" and 10" Poke-Thru Devices.

Device Mounting Plate – Blank plate. Used to blank off either of

the side compartments when no

Device Mounting Plate – Device plate that will accept up to two (2)

Electronics MAAP device plates.

For use in either of the two side

use in the center compartment. Extron Devices supplied by

compartments only. Not for

20A Duplex Receptacles – Two (2) proprietary 20A duplex power receptacles with mounting plates and 25' leads. Designed to fit into the 6", 8" and 10" Poke-

Thru Devices, Receptacle can be

wired as a standard or isolated

devices or cabling are to be

Receptacle can be wired as a

standard or isolated ground

Country of Origin: USA

Country of Origin: USA

Legrand AVIP or Extron®

Country of Origin: USA

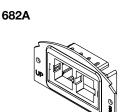
ground device.

Country of Origin: USA

power receptacles with mounting plates. Designed to fit into the 6",

Catalog No./Item

Description/Specifications



Device Mounting Plate – Device plate that will accept up to two (2) ports of communication devices. For use in either of the two side compartments only. Not for use in the center compartment. Communication devices supplied by others.

Controlled Receptacle – One (1)

20A proprietary duplex receptacle

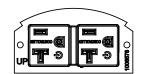
controlled receptacle marking .

Country of Origin: USA

marked with a permanent

Country of Origin: USA

68REC-CTRL*



682A-PT

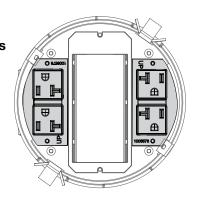


Device Plate – Device plate that allows for communication cabling to pass through. Includes one (1) rectangular adapter ring.

Country of Origin: USA

6AT Side Mount Device Plates Mounting Locations

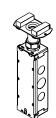
Device Plates in this section can be installed in the shaded locations indicated in this illustration.



Evolution Series 6" Poke-Thru Devices Bottom Feed Device Plates Ordering Information

Catalog No./Item

175CHA



1125CHA



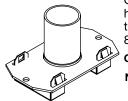
1PTHA







1100CHA



Bottom Housing Assembly – One-gang 3/4" trade size conduit housing assembly. Includes junction box attached to 3/4" trade size conduit for electrical power connections. For use in the center compartments of 6", 8" and 10" poke-thru devices.

Description/Specifications

Country of Origin: USA

NOTE: When using on a 6ATCFF Furniture Feed unit, 1BHA (sold separately) is required.

Bottom Housing Assembly – One-gang 1 1/4" trade size

conduit housing assembly. For use in the center compartments of 6", 8" and 10" poke-thru devices.

Country of Origin: USA

NOTE: When using on a 6ATCFF Furniture Feed unit, 1BHA (sold separately) is required.

Bottom Housing Assembly -

One-gang pass through housing assembly. Designed to allow pass through of communication cables when no conduit is required. For use in the center compartments of 6", 8" and 10" poke-thru devices.

Country of Origin: USA

NOTE: When using on a 6ATCFF Furniture Feed unit, 1BHA (sold separately) is required.

Bottom Housing Assembly –

One-gang 3/4" trade size conduit housing assembly. For use in the center compartments of 6", 8" and 10" poke-thru devices.

Country of Origin: USA

NOTE: When using on a 6ATCFF Furniture Feed unit, 1BHA (sold separately) is required.

Bottom Housing Assembly -

One-gang 1" trade size conduit housing assembly. For use in the center compartments of 6", 8" and 10" poke-thru devices.

Country of Origin: USA

NOTE: When using on a 6ATCFF Furniture Feed unit, 1BHA (sold separately) is required.

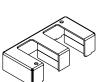
CAUTION: Receptacle supplied with this Poke-Thru is not suitable for direct field wiring. Contact manufacturer for replacement. Field modifications will void UL Listing and Classification. Replacement receptacle is limited to this manufacturers' Catalog No 68REC.

Catalog No./Item

1BLH



15FFHA

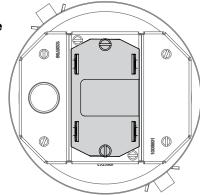






6AT Bottom Feed Center Mount Device Plate Location

All bottom housing assemblies on this page can be installed in the shaded locations indicated in these illustrations.



CAUTION: Receptacle supplied with this Poke-Thru is not suitable for direct field wiring. Contact manufacturer for replacement. Field modifications will void UL Listing and Classification. Replacement receptacle is limited to this manufacturers' Catalog No 68REC.

Bottom Housing Assembly -

Description/Specifications

One-gang blank housing assembly. Designed to blank off compartment when no cable pass through is required. For use in the center compartments of 6", 8" and 10" poke-thru devices.

Country of Origin: USA

NOTE: When using on a 6ATCFF Furniture Feed unit, 1BHA (sold separately) is required.

Bottom Housing Assembly -

One and a half-gang pass through conduit housing assembly. Used for furniture feed applications on the center compartment only. Only for use with 6" poke-thru units.

Country of Origin: USA

Bottom Housing Assembly – One-gang bottom housing assembly. Designed to accept 175CHA, 1125CHA, 1PTHA, 1100CHA and 1BLH plates. Only for use with 6" poke-thru units.

Country of Origin: USA



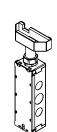
Evolution Series 6" Poke-Thru Devices Bottom Feed Device Plates Ordering Information

Catalog No./Item **Description/Specifications** Catalog No./Item **Description/Specifications 5PTHA** Bottom Housing Assembly -575CHA Bottom Housing Assembly -Half-gang pass through housing housing assembly. Includes assembly. Designed to allow junction box attached to 3/4" pass through of communication trade size conduit for electrical cables when no conduit is

Country of Origin: USA

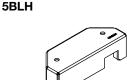
poke-thru devices.

required. For use in 6" and 8"



Half-gang 3/4" trade size conduit power connections. For use in 6" and 8" poke-thru devices.

Country of Origin: USA



Bottom Housing Assembly -

Half-gang blank housing assembly. Designed to blank off compartment when no cable pass through is required. For use on side compartments only. For use in 6" and 8" poke-thru devices. Includes tunnels for 6" and 8" poke-thru devices.

Country of Origin: USA

152CHA



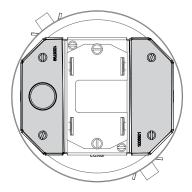
Bottom Housing Assembly -

One and a half-gang 2" trade size conduit housing assembly. For use in 6" poke-thru devices. When 152CHA is used, the center and outer compartment are the same service and cannot be divided.

Country of Origin: USA

6AT Bottom Feed Side Mount Device Plate Mounting Locations

Device Plates in this section can be installed in the shaded locations indicated in this illustration.



NOTE: All brand and product names referenced in this document are registered trademarks or trademarks of their respective holders.

NOTE: The paper used to print this document is an environmentally responsible paper with 10% post consumer waste, with FSC and SFI Chain of Custody certifications, Lacey Act complaint. 100% of the electricity used to manufacture Flo sheets is generated with Green-e certified renewable energy.



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Canada 905.738.9195 www.legrand.ca





WIREMOLD® Resource RFB® Series Floor Boxes

Recessed Floor Boxes for Concrete & Wood Floors

Resource RFB[®] Series of Floor Boxes are versatile recessed activation solutions that provide power, communication and/or audio/video services to open space areas, or directly to workstations. Resource RFB Series Floor Boxes are available in two- to six-gang models with a variety of aesthetic cover options including colors and profiles available.

Resource RFB Series Floor Boxes have many applications, including schools, financial institutions, commercial office buildings, hospitality and residences.



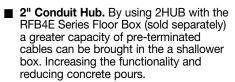
Protection from water, dirt, and debris.

RFB4 Series Floor Box with the new FloorPort Activation Cover.



- RFB6 & RFB6E have independent wiring compartments that allow capacity for up to six duplex receptacles and/or communication services. Reduces overall cost by providing for most cabling requirements.
- The RFB4 has three versions for various applications. A cast iron version to meet on grade requirements, a steel version to reduce installation cost on above grade floors, and a shallow steel version that provides flexibility with varying concrete depths.
- Fully adjustable before and after the concrete pour. Labor savings by adapting to various pour depths and conditions.
- Range of conduit sizes. Allows for most conduit schemes, even feed through capability, which saves time and money during installation. KOs range from 1/2" to 2" trade size.
- Triple service boxes. Accommodate power, communication and/or audio/ video devices which reduces the need for multiple boxes.
- Accepts round Evolution[™] Series Covers. RFB4E Series Floor Box accept the round 6" Evolution[™] Series Covers while RFB6E Series Floor Box accepts the round 8" Evolution[™] Series Covers increasing the ability to match aesthetics throughout the building.

- RFB2 & RFB4 shallow versions allow pass-around tunneling. Flexibility in design to have adjacent compartments wired together.
- Redesigned FloorPort Activation Covers. Provides TopGuard protection from water, dirt and debris plus added strength and durability. Now available in brushed aluminum and five decorative powder coat finishes: Black, Brass, Nickel, Gray and Bronze.
- Wide variety of mounting brackets. Can adapt to most power and communication needs. Reduces overall life cycle cost.
- RFB4E and RFB6E Series Floor Boxes available for bare concrete and terrazzo floors. By using RFB4E-CTR or RFB6E-CTR Rings (sold separately) these boxes can be installed into bare concrete or terrazzo floors with a clean, aesthetic finish.
- Datacom connectivity options. Accepts industry standard and proprietary devices from a wide range of manufacturers to provide a seamless and aesthetically pleasing interface for voice, data, audio, and video applications at the point-of-use. A wide selection of data and adapter options are available for use with Ortronics® TracJack[™] and Series II devices.



- Installs in both concrete and wood floors. Provides the first recessed wood floor box for both commercial and residential applications. Available for RFB2, RFB6 and RFB6E Series Floor Boxes.
- Lightweight "slab-on-grade" version. Special fusion-bonded epoxy corrosion resistant paint finish allows for slab-ongrade use without the weight of cast iron material. Available in RFB2, RFB4E, RFB6 and RFB6E Series Floor Boxes.
- Accepts Floorport[™] Activation Covers. Allows a consistent aesthetic finish for the RFB2, RFB4 & RFB6 Series Recessed Floor Boxes.
- Buy America Act/NAFTA versions. FloorPort Service Fittings are now available in versions that meet the Buy America Act/NAFTA requirements.
- UL Listed to U.S. and Canadian safety standards for tile, terrazzo, carpet and wood floors.

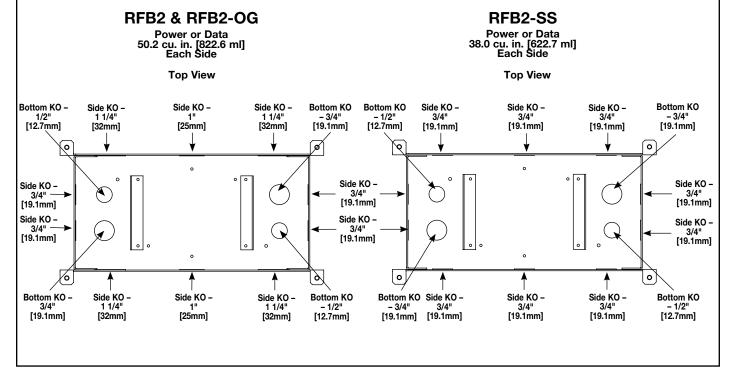


Download this product's PEP ecopasport_® environmental product declaration at www.legrand.us/resources-and-downloads. This declaration conforms with ISO 14025 and 14040 and is in alignment with EN 15804.

			Resour	ce RFB S	ieries Flo	or Box S	election	Guide		
Box Model	Install Fl Concrete	oor Type: Wood	Box Type:	Box Capacity:	Depth Behind Plates:	A/V Compatibility	Trade Size Conduit Feed:	Cover Style	Country of Origin	Adjustability
RFB2	Yes	Yes	Above Grade	2 Gangs	3" [76mm]	A	1/2" – 1 1/4"	FloorPort	Mexico	•
RFB2-SS	Yes	Yes	Above Grade	2 Gangs	3" [76mm]		1/2" – 3/4"	FloorPort	Mexico	
RFB2-OG	Yes	Yes	On-Grade	2 Gangs	3" [76mm]		1/2" – 1 1/4"	FloorPort	Mexico	
RFB4	Yes	No	Above Grade	4 Gangs	2" [51mm]		1/2" – 1 1/4"	FloorPort	Mexico	
RFB4-4DB	Yes	No	Above Grade	4 Gangs	2" [51mm]		1/2" – 1 1/4"	FloorPort	Mexico	
RFB4-SS	Yes	No	Above Grade	4 Gangs	2" [51mm]	Legrand AVIP, Altinex	1/2" – 1"	FloorPort	Mexico	
RFB4-CI-1	Yes	No	On-Grade	4 Gangs	2" [51mm]	Intera, Extron AAP,	1" – 1 1/4"	FloorPort	China	Fully
RFB4-CI-1-NA	Yes	No	On-Grade	4 Gangs	2" [51mm]	MAAP & Decorator,	1" – 1 1/4"	FloorPort	USA	Adjustable
RFB4E	Yes	No	Above Grade	4 Gangs	3 1/2" [89mm]	Ortronics Series II	3/4" – 2"	Evolution	Mexico	
RFB4E-OG	Yes	No	On-Grade	4 Gangs	3 1/2" [89mm]		3/4" – 2"	6CT2, 6CTC2 & 6CFFTC Series	Mexico	
RFB6	Yes	Yes	Above Grade	6 Gangs	3 1/4" [83mm]		3/4" – 1 1/4"	FloorPort	Mexico	
RFB6-OG	Yes	Yes	On-Grade	6 Gangs	3 1/4" [83mm]		3/4" – 1 1/4"	FloorPort	Mexico	
RFB6E	Yes	Yes	Above Grade	6 Gangs	3 1/4" [83mm]		3/4" – 1 1/4"	Evolution	Mexico	
RFB6E-OG	Yes	Yes	On-Grade	6 Gangs	3 1/4" [83mm]	¥	3/4" – 1 1/4"	8CT2 & 8CTC2 Series	Mexico] ↓

NOTE: Pricing may vary depending on country of origin. Consult your local sales representative for more information.





Catalog No./Item	Description/Specifications
3/4" [19.1mm] [87mm]	Two-Compartment Box – For use in either concrete or wood floors. Fully adjustable with tunnel compartment. Supplied with one (1) duplex receptacle mounting plate, and one (1) communication mounting plate (RFB22AB). Other device plates sold separately.
Country of Origin: Mexico	
RFB2-SS 9/16" [14mm] 6 1/2" [165mm] 9/16" [333mm] Country of Origin: Mexico	Two-Compartment Shallow Stamped Steel Floor Box – For use in either concrete or wood floors. Fully adjustable with tunnel compartment. Supplied with one (1) duplex receptacle mounting plate, and one (1) communication mounting plate (RFB22AB). Other device plates sold separately.
RFB2-OG 3/4" [19.1mm] 3 7/16" [87mm]	Two-Compartment Box – For use On Grade. Fully adjustable with tunnel compartment. Supplied with one (1) duplex receptacle mounting plate, and one (1) communication mounting plate (RFB22AB). Other device plates sold separately.
6 1/2" [165mm] 13 1/8" [333mm] Country of Origin: Mexico	NOTE: RFB2-OG for on-grade applications is painted with a fusion-bonded epoxy designed for use on metal reinforcement bar and related accessories before encapsulating in concrete.

R	FB2 Series Multiservice Steel	Recessed Floor Bo	ox Accessories		
Catalog No./Item	Description/Specifications	Catalog No./Item	Description/Specifications		
RFB2DP	Internal Duplex Receptacle Bracket – Accepts standard 15 Amp & 20 Amp Duplex Receptacles. Country of Origin: Mexico	RFB2RT	Internal Communication Bracket – Includes Two (2) adapters to accept Ortronics® TracJack devices, and Two (2) adapters to accept Ortronics® Series II devices (sold separately).		
NOTE: For RFB2 Series	s Floor Boxes only.		Country of Origin: Mexico		
RFB2B	Internal Blank Bracket – Plate used to close off unused gangs.	NOTE: For RFB2 Series	s Floor Boxes only.		
NOTE: For RFB2 Series	Country of Origin: Mexico	RFB2EXT	Internal Audio/Video Bracket – Accepts two (2) Legrand AVIP or Extron [®] Electronics MAAP Series devices (sold separately).		
RFB2GFI	Internal GFI or Decorator Style Receptacle Bracket – Accepts standard GFCI or Decorator	NOTE: For RFB2 Series	Country of Origin: Mexico		
NOTE: For RFB2 Series	Style Receptacles, Communication or Audio/Video Devices. Country of Origin: Mexico Floor Boxes only.	RFB2-AAP	Internal Audio/Video Bracket – Accepts Two (2) Extron® Electronics AAP Series devices		
RFB22AB	Internal Communication Bracket – Includes two (2) adapters to accept Wiremold CM2 Series Open System communication inserts (sold separately).	NOTE: For RFB2 Serie	(sold separately). Country of Origin: Mexico es Floor Boxes only.		
	Country of Origin: Mexico				
NOTE: For RFB2 Series	Floor Boxes only.				

./Item	Description/Specifications	Catalog No./Item	Description	n/Specifications
RFBKIT	Barrier Kit – Barrier kit used to separate power and communication wires in partition feed covers. Supplied with base	PKER ^{Mudcap}		- Attaches to preset to to preset. Can be field
	and three extensions to adjust to		Extension	Height Above Preset "A"
	cover height. Kit should be used	Extension	PKER-10	1" [25mm]
	on RFB2, RFB2-OG, RFB2-SS,	Ring	PKER-15	1 1/2" [38mm]
	RFB4 and RFB4-SS Floor Boxes.		> PKER-20	2" [51mm]
	Kits are sold separately.		PKER-25	2 1/2" [64mm]
			PKER-30	3" [76mm]
	Country of Origin: USA	PK Preset	Country o	f Origin: USA
	Bare Concrete & Terrazzo Ring – Nonmetallic ring for use on bare polished concrete and terrazzo floor applications.		A A	
	Country of Origin: USA	S3AXBP	plate with s	late – Aluminum top teel support plate and sting screws.
			Country of C	Drigin: USA

FloorPort Series Cover Assemblies for RFB2 Series Floor Boxes

FLOORPORT PART NUMBER CONFIGURATOR						
FP	B		тс	NK		
FloorPort Cover	Blank Top Cutout Top Furniture Feed	B C FF	Tile (Flangeless) T Tile/Carpet TC (Flanged)	Nickel Brass Black Bronze Gray Brushed Aluminum	NK BS BK BZ GY AL	

FloorPort Series Flanged Cover Assemblies Ordering Information

Catalog No./Item	Description/Specifications	Catalog No./Item	Description/Specifications
FPCTCBK FPCTCBZ FPCTCBS FPCTCNK FPCTCAL FPCTCGY	Cutout Cover Assembly – Flanged cover for use in tile or carpet installation. Die-cast aluminum assembly available in black (BK), bronze (BZ), brass (BS), nickel (NK), gray (GY), or brushed aluminum (AL). Insert in lid allows for carpet or tile cutouts to match finished floor.	FPFFTCBK FPFFTCBZ FPFFTCBS FPFFTCNK FPFFTCAL FPFFTCGY	Furniture Feed Cover Assembly – Flanged cover for use in tile or carpet installation. Die-cast aluminum assembly available in black (BK), bronze (BZ), brass (BS), nickel (NK), gray (GY), or brushed aluminum (AL). Provided with one 1" trade size screw plug for power or communication type cabling and one combination 1 1/4" and 2" trade size screw plug for
FPBTCBK FPBTCBZ FPBTCBS FPBTCNK FPBTCAL FPBTCGY	Country of Origin: India Blank Cover Assembly – Flanged cover for use in tile or carpet installation. Die-cast aluminum assembly available in black (BK), bronze (BZ), brass (BS), nickel (NK), gray (GY), or brushed aluminum (AL). Lid area is flush with the finished floor, no cutouts provided. Country of Origin: India		communication type cabling. Allows for feeding both power and communication cabling. Country of Origin: USA

atalog No./Item	Description/Specifications	Catalog No./Item	Description/Specifications
РСТВК	Cutout Cover Assembly –	FPFFTBK	Furniture Feed Cover Asse
PCTBZ	Flangeless cover for use in tile	FPFFTBZ	Flangeless cover for use in til
PCTBS	installations. Die-cast aluminum	FPFFTBS	installations. Die-cast alumin
PCTNK	assembly available in black (BK),	FPFFTNK	assembly available in black (
PCTAL	bronze (BZ), brass (BS), nickel (NK),	FPFFTAL	bronze (BZ), brass (BS), nicke
PCTGY	gray (GY), or brushed aluminum	FPFFTGY	gray (GY), or brushed alumin
1910	(AL). Insert in lid allows for tile		(AL). Provided with one 1" tra
	cutouts to match finished floor.		size screw plug for power or
			communication type cabling
			one combination 1 1/4" and 2
	Country of Origin: India		 trade size screw plug for
			communication type cabling.
РВТВК	Blank Cover Assembly –		Allows for feeding both powe
PBTBZ	Flangeless cover for use in tile		communication cabling.
PBTBS	installations. Die-cast aluminum		Country of Origin: USA
PBTNK	assembly available in black (BK),		
PBTAL	bronze (BZ), brass (BS), nickel (NK),		
	arav (GY), or brushed aluminum		
	gray (GY), or brushed aluminum (AL), Lid area is flush with the		
PBTGY	(AL). Lid area is flush with the		

NOTE: Pricing varies depending on country of origin. Consult your local sales representative for more information.

North American Made FloorPort Series Cover Assemblies for RFB2 Series Floor Boxes

FP	<u>B</u>		TC	NK		NA
FloorPort Cover	Blank Top Cutout Top Furniture Feed	B C FF	Tile (Flangeless) T Tile/Carpet TC (Flanged)	Nickel Brass Black Bronze Gray Brushed Aluminum	NK BS BK BZ GY AL	North American N. Made

North American Made FloorPort Series Flanged Cover Assemblies Ordering Information

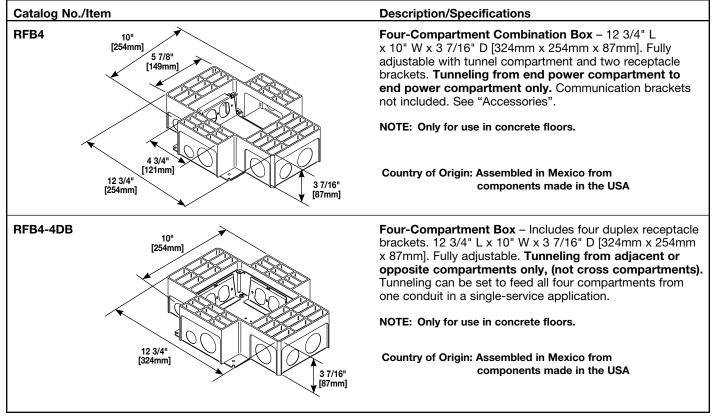
Catalog No./Item	Description/Specifications	Catalog No./Item	Description/Specifications
FPCTCBK-NA FPCTCBZ-NA FPCTCBS-NA FPCTCNK-NA FPCTCGY-NA	Cutout Cover Assembly – Flanged cover for use in tile or carpet installation. Die-cast aluminum assembly available in black (BK), bronze (BZ), brass (BS), nickel (NK), or gray (GY). Insert in lid allows for carpet or tile cutouts to match finished floor. Country of Origin: USA Blank Cover Assembly –	FPFFTCBK FPFFTCBZ FPFFTCBS FPFFTCAL FPFFTCAL FPFFTCGY	Furniture Feed Cover Assembly – Flanged cover for use in tile or carpet installation. Die-cast aluminum assembly available in black (BK), bronze (BZ), brass (BS), nickel (NK), gray (GY), or brushed aluminum (AL). Provided with one 1" trade size screw plug for power or communication type cabling and one combination 1 1/4" and 2" trade size screw plug for communication type cabling. Allows for feeding both power and communication cabling.
FPBTCBZ-NA FPBTCBS-NA FPBTCNK-NA FPBTCGY-NA	Flanged cover for use in tile or carpet installation. Die-cast aluminum assembly available in black (BK), bronze (BZ), brass (BS), nickel (NK), or gray (GY). Lid area is flush with the finished floor, no cutouts provided.	FPFFTBK FPFFTBZ FPFFTBS FPFFTNK FPFFTAL	Country of Origin: USA Furniture Feed Cover Assembly – Flangeless cover for use in tile installations. Die-cast aluminum assembly available in black (BK), bronze (BZ), brass (BS), nickel (NK),
	Country of Origin: USA epending on country of origin. Consult your esentative for more information.	FPFFTGY	 gray (GY), or brushed aluminum (AL). Provided with one 1" trade size screw plug for power or communication type cabling and one combination 1 1/4" and 2" trade size screw plug for communication type cabling. Allows for feeding both power and communication cabling.

Country of Origin: USA

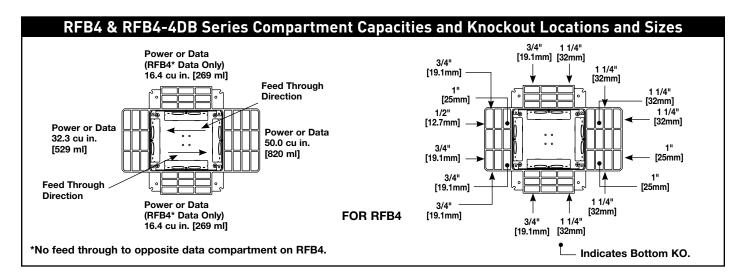
LOAD CAPACITIES FOR FLOORPORT COVER ASSEMBLIES					
CATALOG MAXIMUM LOA NUMBERS IN POUNDS					
FPCTC	1000				
FPBTC	750				
FPFFTC	1000				
FPCT	1000				
FPBT	750				
FPFFT	1000				

NOTE: Load applied through a 2" [51mm] mandrel in center of service fitting. Loads above are static loads only and do not pertain to rolling loads.

RFB4 & RFB4-4DB Series Multiservice Steel Recessed Floor Box Ordering Information



NOTE: All boxes and activations are sold separately.



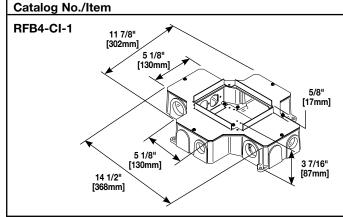


RFB4 Series Floor Box with FloorPort Activation Cover.

Catalog No./Item	Description/Specifications	Catalog No./Item	Description/Specifications
RFB-B	Internal Blank Bracket – Power compartments only. Used to close off unused gangs. NOTE: For RFB4 only. Country of Origin: USA	DTB-2-4TKO	Communication Bracket – Four (4) RJ keystone opening knockouts Use as blank plate or for up to four (4) RJ openings. NOTE: For RFB4 only. Opening
RFB-DR	Internal Duplex Bracket – Accepts standard 15 Amp & 20 Amp Duplex Receptacles. NOTE: For RFB4 only. Country of Origin: USA	Country of Origin: USA DTB-2-DT	dimension is 9/16" x 3/4" [14.3mm x 19.1mm]. Communication Bracket – With one IBM Type II opening and one keystone opening (devices not included).
RFB-GFI	Internal GFI Bracket – Accepts standard GFCI or Decorator Style Receptacles, Communication or Audio/Video Devices. NOTE: For RFB4 only. Country of Origin: USA	DTB-2-SD	NOTE: For RFB4 only. Country of Origin: Mexico Communication Bracket – With duplex opening for use with 106 Adapter (sold separately) (devices not included). NOTE: For RFB4 only.
RFB4-LPB	Communication Bracket – Activate [™] low profile adapter included. Wiremold CM Series Open System inserts sold separately. NOTE: For RFB4 only. Country of Origin: Mexico	DTB-EXT	Country of Origin: Mexico Internal Audio/Video Bracket – Accepts two (2) Legrand AVIP or Extron® Electronics MAAP devices (sold separately). NOTE: For RFB4 only. Country of Origin: Mexico
RFB4-LPBS2	Communication Bracket – Ortronics [®] Series II Low profile adapter included. NOTE: For RFB4 only. Country of Origin: Mexico	RFB-GFI-4DB	Internal GFCI Bracket – Accepts standard GFCI or Decorator style receptacles, communications or A/V devices. NOTE: For RFB4-4DB only. Country of Origin: USA
DTB-2-2AB	Communication Bracket – Two (2) 2A size adapters included. Wiremold CM2 Series Open System inserts, sold separately. NOTE: For RFB4 only.	RFB-WTB	Conversion Kit – To convert the RFB4 Box to a RFB4-4DB Box. NOTE: For RFB4 & RFB4-4DB. Country of Origin: Mexico
DTB-2-2RT	Country of Origin: Mexico Communication Bracket – Ortronics® AB2TJ TracJack and ABS2 Series II adapters included. NOTE: For RFB4 only.	WTB-2-AB	Communication Bracket – One 2A adapter included. Wiremole CM2 Series Open System inserts sold separately. NOTE: For RFB4-4DB only. Country of Origin: Mexico
DTB-2-DECORA	Country of Origin: Mexico Communication Bracket –	WTB-2-RT	Communication Bracket – Ortronics® AB2TJ TracJack and ABS2 Series II adapters included. NOTE: For RFB4-4DB only. Country of Origin: Mexico
	Decorator style opening for decorator style 106 Adapter. Country of Origin: Mexico	WTB-AAP	Internal Audio/Video Bracket – Accepts two (2) Extron® Electronics AAP Series Devices (sold separately). NOTE: For RFB4-4DB only.
DTB-2-AAP	Internal Audio/Video Bracket – Accepts two (2) Extron® Electronics AAP devices (sold separately). NOTE: For RFB4 only. Country of Origin: Mexico	WTB-MAAP	Country of Origin: Mexico Internal Audio/Video Bracket – Accepts two (2) Legrand AVIP or Extron® Electronics MAAP Series Devices (sold separately). NOTE: For RFB4-4DB only. Country of Origin: Mexico

RFB4 & RFB4-4DB Series Multiservice Steel Recessed Floor Box Accessories (continued) Catalog No./Item **Description/Specifications** Catalog No./Item **Description/Specifications** RFBKIT **FP-CTR** Bare Concrete & Terrazzo Ring -Barrier Kit - Barrier kit used to separate power and Nonmetallic ring for use on bare communication wires in partition polished concrete and terrazzo feed covers. Supplied with base floor applications. and three extensions to adjust to cover height. Kit should be used on RFB2, RFB2-OG, RFB2-SS, RFB4 and RFB4-SS Floor Boxes. Kits are sold separately. **Country of Origin: USA** Country of Origin: USA

RFB4-CI-1 Series Multiservice Cast Iron Recessed Floor Box Ordering Information talog No./Item Description/Specifications



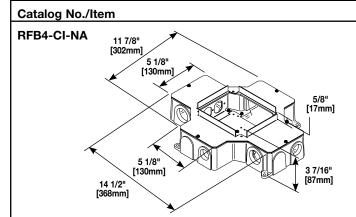
Four-Compartment Cast Iron Box –

14 1/2" L x 11 7/8" W x 3 7/16" D [368mm x 302mm x 87mm]. Fully adjustable with tunnel compartment and two receptacle brackets. Feed through from adjacent or opposite compartments only, (not cross compartments). Communication brackets not included. See "Accessories".

NOTE: Only for use in concrete floors. All boxes and activations are sold separately.

Country of Origin: China

North American Made RFB4-CI-NA Series Multiservice Cast Iron Recessed Floor Box Ordering Information

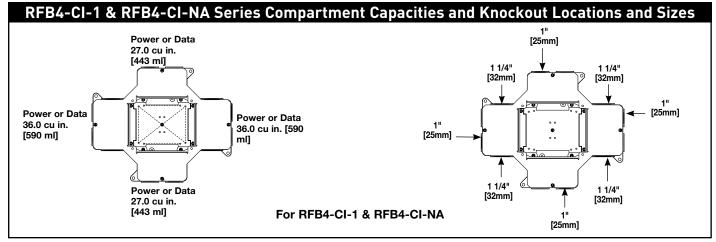


Description/Specifications

Four-Compartment Cast Iron Box – 14 1/2" L x 11 7/8" W x 3 7/16" D [368mm x 302mm x 87mm]. Fully adjustable with tunnel compartment and two receptacle brackets. Feed through from adjacent or opposite compartments only, (not cross compartments). Communication brackets not included. See "Accessories".

NOTE: Only for use in concrete floors. All boxes and activations are sold separately.

Country of Origin: USA

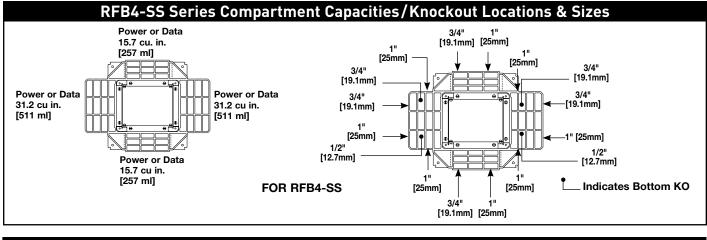


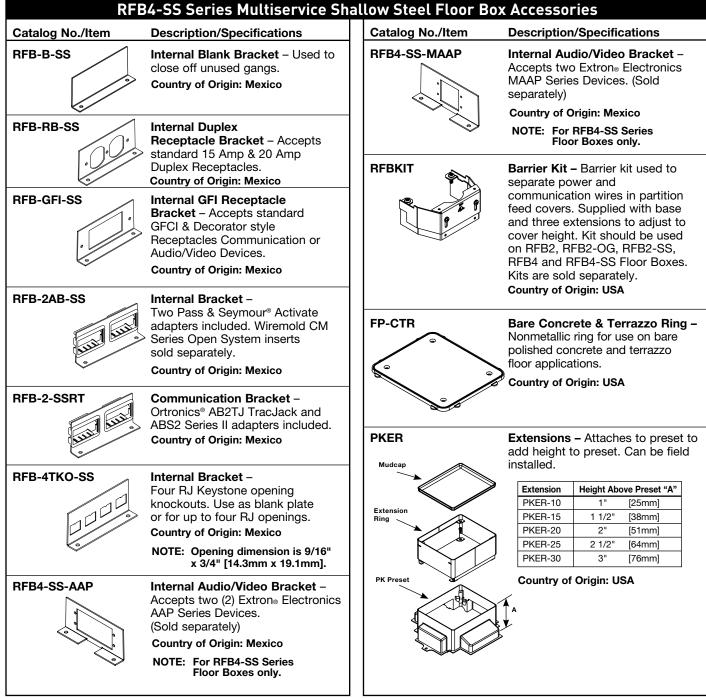
NOTE: Pricing varies depending on country of origin. Consult your local sales representative for more information.

R	FB4-CI-1 Series Multiservice	Cast Iron Floor Box /	Accessories
Catalog No./Item	Description/Specifications	Catalog No./Item	Description/Specifications
CIHT-D	Internal Duplex Receptacle Bracket – Accepts standard 15 Amp & 20 Amp Duplex Receptacles. Country of Origin: USA	RFBCIKIT	Barrier Kit – Barrier kit used with RFB4-CI Floor Boxes. Kits are sold separately. Country of Origin: USA
CIH/LT-B	Internal Blank Bracket – Used to close off unused gangs. Country of Origin: USA	FP-CTR	Bare Concrete & Terrazzo Ring – Nonmetallic ring for use on bare polished concrete and terrazzo floor applications.
CIHT-GFI	Internal GFI Device Bracket – Accepts standard GFCI or Decorator Style Receptacles, Communication or Audio/Video Devices. Country of Origin: USA		Country of Origin: USA
CILT-2AB	Communication Bracket – Communication bracket with two 2A size Activate adapters included. Accepts Wiremold CM2 Series Open System communication modules (sold separately). Country of Origin: Mexico	PKER Mudcap Extension Ring	Extensions – Attaches to preset to add height to preset. Can be field installed. Extension Height Above Preset "A" PKER-10 1" [25mm] PKER-15 1 1/2" [38mm] PKER-20 2" [51mm] PKER-25 2 1/2" [64mm]
CILT-2-RT	Communication Bracket – Communication bracket with Ortronics® AB2TJ TracJack and ABS2 Series II adapters included. Accepts Ortronics® workstation connectivity outlets and modular inserts. Country of Origin: Mexico	PK Preset	PKER-30 3" [76mm] Country of Origin: USA
CILT-4TKO	Communication Bracket – Communication bracket with four (4) RJ opening knockouts. Use as blank plate or for up to four RJ openings. Country of Origin: USA NOTE: Opening dimension is 9/16" x 3/4" [14.3mm x 19.1mm].	S3AXBP	Blanking Plate – Aluminum top plate with steel support plate and four (4) adjusting screws. Country of Origin: USA

Additional configurations available. Please consult your local Sales Representative for more information.

RFB4-SS Series Multiservice Shallow Steel Recessed Floor Box Ordering Information Catalog No./Item Description/Specifications Four-Compartment Shallow Stamped Steel Box -**RFB4-SS** 10" [254mm] 13 5/8" L x 10" W x 2 7/16" D [346mm x 254mm x 62mm]. Fully adjustable with tunnel compartment and two 5 7/8" [149mm] receptacle brackets. Feed through tunneling to adjacent compartments only. Tunneling can be set to feed all four compartments from one conduit in a single-service application. Communication brackets not included. See "Accessories". NOTE: Only for use in concrete floors. All boxes 4 3/4" [121mm] and activations are sold separately. 2 7/16" 13 5/8" Country of Origin: Assembled in Mexico from [62mm] [346mm] components made in the USA





Additional configurations available. Please consult your local Sales Representative for more information.

RFB4-SS Series Multiservice Shallow Steel Floor Box Accessories

Catalog No./Item	Description/Specifications
S3AXBP	Blanking Plate – Aluminum top plate with steel support plate and four (4) adjusting screws.
t	

FloorPort Series Cover Assemblies for RFB4 Series Floor Boxes

FLOORPORT PART NUMBER CONFIGURATOR						
<u>FP</u>	<u>B</u>		TC	NK		
FloorPort Cover	Blank Top Cutout Top Furniture Feed	B C FF	Tile (Flangeless) T Tile/Carpet TC (Flanged)	Nickel Brass Black Bronze Gray Brushed Aluminum	NK BS BK BZ GY AL	

FloorPort Series Flanged Cover Assemblies Ordering Information

Catalog No./Item	Description/Specifications	Catalog No./Item	Description/Specifications
FPCTCBK FPCTCBZ FPCTCBS FPCTCNK FPCTCAL FPCTCGY	Cutout Cover Assembly – Flanged cover for use in tile or carpet installation. Die-cast aluminum assembly available in black (BK), bronze (BZ), brass (BS), nickel (NK), gray (GY), or brushed aluminum (AL). Insert in lid allows for carpet or tile cutouts to match finished floor.	FPFFTCBK FPFFTCBZ FPFFTCBS FPFFTCNK FPFFTCAL FPFFTCGY	Furniture Feed Cover Assembly – Flanged cover for use in tile or carpet installation. Die-cast aluminum assembly available in black (BK), bronze (BZ), brass (BS), nickel (NK), gray (GY), or brushed aluminum (AL). Provided with one 1" trade size screw plug for power or communication type cabling and one combination 1 1/4" and 2" trade size screw plug for
FPBTCBK FPBTCBZ FPBTCBS FPBTCNK FPBTCAL FPBTCGY	Country of Origin: India Blank Cover Assembly – Flanged cover for use in tile or carpet installation. Die-cast aluminum assembly available in black (BK), bronze (BZ), brass (BS), nickel (NK), gray (GY), or brushed aluminum (AL). Lid area is flush with the fixible of fluences.		communication type cabling. Allows for feeding both power and communication cabling. Country of Origin: USA
	with the finished floor, no cutouts provided. Country of Origin: India		

Flo	oorPort Series Flangeless Cove	r Assemblies Orde	ring Information
Catalog No./Item	Description/Specifications	Catalog No./Item	Description/Specifications
FPCTBK FPCTBZ FPCTBS FPCTNK FPCTAL FPCTGY	Cutout Cover Assembly – Flangeless cover for use in tile installations. Die-cast aluminum assembly available in black (BK), bronze (BZ), brass (BS), nickel (NK), gray (GY), or brushed aluminum (AL). Insert in lid allows for tile cutouts to match finished floor.	FPFFTBK FPFFTBZ FPFFTBS FPFFTNK FPFFTAL FPFFTGY	Furniture Feed Cover Assembly Flangeless cover for use in tile installations. Die-cast aluminum assembly available in black (BK), bronze (BZ), brass (BS), nickel (N gray (GY), or brushed aluminum (AL). Provided with one 1" trade size screw plug for power or communication type cabling and one combination 1 1/4" and 2"
FPBTBK	Country of Origin: India Blank Cover Assembly –		 trade size screw plug for communication type cabling. Allows for feeding both power ar communication cabling.
FPBTBZ FPBTBS FPBTNK FPBTAL FPBTGY	Flangeless cover for use in tile installations. Die-cast aluminum assembly available in black (BK), bronze (BZ), brass (BS), nickel (NK), gray (GY), or brushed aluminum (AL). Lid area is flush with the finished floor, no cutouts provided.		Country of Origin: USA
	Country of Origin: India		

NOTE: Pricing varies depending on country of origin. Consult your local sales representative for more information.

North American Made FloorPort Series Cover Assemblies for RFB4 Series Floor Boxes

FP	<u>B</u>		TC	NK		NA
FloorPort Cover	Blank Top Cutout Top Furniture Feed	B C FF	Tile (Flangeless) T Tile/Carpet TC (Flanged)	Nickel Brass Black Bronze Gray Brushed Aluminum	NK BS BK BZ GY AL	North American NA Made

North American Made FloorPort Series Flanged Cover Assemblies Ordering Information

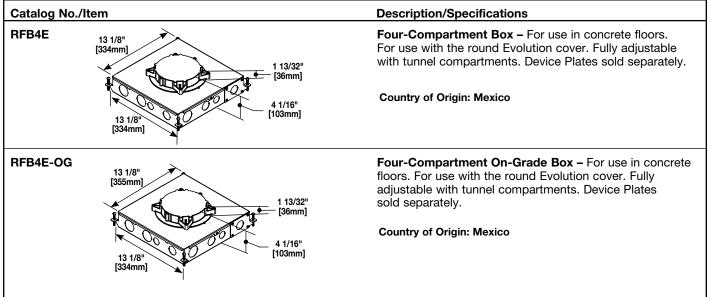
Catalog No./Item	Description/Specifications	Catalog No./Item	Description/Specifications
FPCTCBK-NA FPCTCBZ-NA FPCTCBS-NA FPCTCNK-NA FPCTCGY-NA	Cutout Cover Assembly – Flanged cover for use in tile or carpet installation. Die-cast aluminum assembly available in black (BK), bronze (BZ), brass (BS), nickel (NK), or gray (GY). Insert in lid allows for carpet or tile cutouts to match finished floor.	FPFFTCBK FPFFTCBZ FPFFTCBS FPFFTCNK FPFFTCAL FPFFTCGY	Furniture Feed Cover Assembly – Flanged cover for use in tile or carpet installation. Die-cast aluminum assembly available in black (BK), bronze (BZ), brass (BS), nickel (NK), gray (GY), or brushed aluminum (AL). Provided with one 1" trade size screw plug for power or communication type cabling and one combination 1 1/4" and 2" trade size screw plug for communication type cabling.
FPBTCBK-NA FPBTCBZ-NA FPBTCBS-NA FPBTCNK-NA	Blank Cover Assembly – Flanged cover for use in tile or carpet installation. Die-cast aluminum assembly available in		Allows for feeding both power and communication cabling.
FPBTCGY-NA	black (BK), bronze (BZ), brass (BS), nickel (NK), or gray (GY). Lid area is flush with the finished floor, no cutouts provided.	FPFFTBK FPFFTBZ FPFFTBS FPFFTNK FPFFTAL FPFFTGY	Furniture Feed Cover Assembly – Flangeless cover for use in tile installations. Die-cast aluminum assembly available in black (BK), bronze (BZ), brass (BS), nickel (NK), gray (GY), or brushed aluminum
\sim	Country of Origin: USA		(AL). Provided with one 1" trade
-	pending on country of origin. Consult your sentative for more information.		size screw plug for power or communication type cabling and one combination 1 1/4" and 2" trade size screw plug for communication type cabling. Allows for feeding both power and

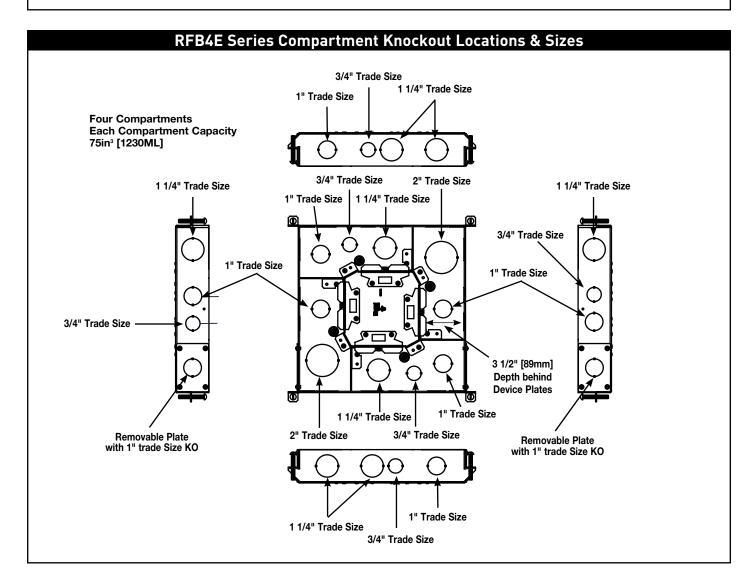
communication cabling. Country of Origin: USA

LOAD CAPACITIES FOR FLOORPORT COVER ASSEMBLIES		
CATALOG NUMBERS	MAXIMUM LOAD IN POUNDS	
FPCTC	1000	
FPBTC	750	
FPFFTC	1000	
FPCT	1000	
FPBT	750	
FPFFT	1000	

NOTE: Load applied through a 2" [51mm] mandrel in center of service fitting. Loads above are static loads only and do not pertain to rolling loads.

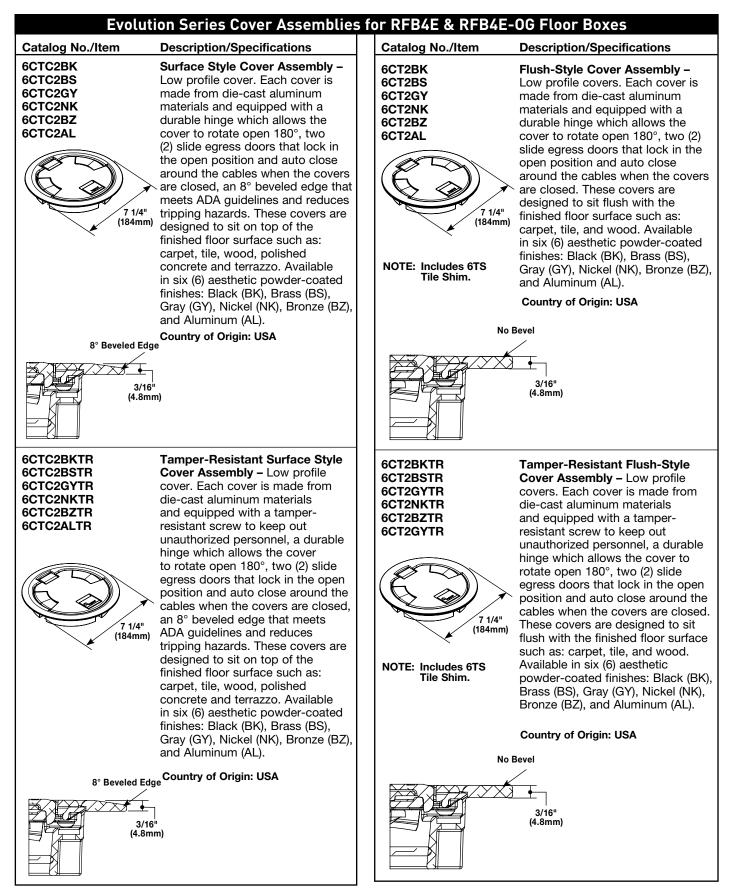
RFB4E Series Multiservice Steel Recessed Floor Box Ordering Information





Catalog No./Item	Description/Specifications	Catalog No./Item	Description/Specifications
RFB4EKIT	 Barrier Kit – Barrier kit used to separate power and communication services in combination with a 6CFFTC Furniture Feed Cover. (sold separately). Country of Origin: Mexico 	RFB6RT	Internal Communication Bracket – Includes one (1) adapter to accept Ortronics® TracJack devices, and one (1) adapter to accept Ortronics® Series II devices (sold separately). Country of Origin: USA
RFB6DP	Internal Duplex Receptacle Bracket – Accepts standard 15 & 20 Amp Duplex Receptacles.		NOTE: For use with RFB4E, RFB6 and RFB6E Series Floor Boxes.
	Country of Origin: USA	RFB6EXT	Internal Audio/Video
	NOTE: For use with RFB4E, RFB6 and RFB6E Series Floor Boxes.	• • •	Bracket – Accepts three (3) Legrand AVIP or Extron® Electronics MAAP Series devices (sold separately).
RFB6B	Internal Blank Bracket – Closes off unused gangs.		Country of Origin: USA
	Country of Origin: USA		NOTE: For use with RFB4E, RFB6 and RFB6E Series Floor Boxes.
	NOTE: For use with RFB4E, RFB6 and RFB6E Series Floor Boxes.	RFB62A	Internal Communication Bracket – Includes two (2)
RFB6GFI	Internal GFI or Decorator Style Receptacle Bracket – Accepts standard GFCI & Decorator Style Receptacles, Communication or Audio/Video Devices.		adapters to accept Wiremold CM2 Series Open System communication inserts (sold separately). Country of Origin: USA
	Country of Origin: USA NOTE: For use with RFB4E, RFB6 and		NOTE: For use with RFB4E, RFB6 and RFB6E Series Floor Boxes.
	RFB6E Series Floor Boxes.	RFB6-AAP	Internal Audio/Video Bracket –
RFB6S1	Internal Single Receptacle Bracket – Receptacle opening 1 3/8" [35mm].		Accepts two (2) Extron® Electronics AAP Series Devices (sold separately).
	Country of Origin: USA		Country of Origin: USA NOTE: For use with RFB4E, RFB6 and RFB6E Series Floor Boxes.
	NOTE: For use with RFB4E, RFB6 and RFB6E Series Floor Boxes.	2HUB	2" Conduit Transition Hub –
RFB6S2	Internal Single Receptacle Bracket – Receptacle opening 1 9/16" [40mm].		Trade size 2" die cast zinc conduit fitting allows for 2" conduit to transition into a shallow box design. Includes:
	Country of Origin: USA		die cast fitting, gasket, and mounting screws.
	NOTE: For use with RFB4E, RFB6 and RFB6E Series Floor Boxes.		Country of Origin: USA

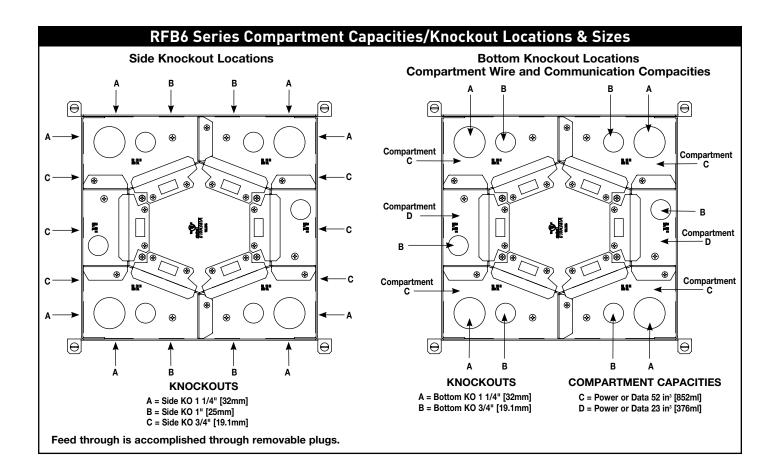




NOTE: All surface-style poke-thru devices come with a transition angle to aid in the change in floor elevation.

Catalog No./Item	Ition Series Cover Assemblies Description/Specifications	Catalog No./Item	Description/Specifications
6CFFTCBK 6CFFTCBS 6CFFTCNK 6CFFTCBZ	Furniture Feed Cover Assembly – Surface style, die-cast aluminum cover assembly, with one (1) 3/4" trade size screw plug opening and one (1) concentric 2"-1 1/4" trade size screw plug opening. Includes one (1) 3/4" and one (1) 2" trade size conduit fittings.	RFB4E-CTR	Bare Concrete & Terrazzo Ring - Nonmetallic ring for use with bare concrete and terrazzo floor applications. Country of Origin: USA
6TS	Tile Shim – Used for floor coverings greater than 5/16" (7.9mm). The 6TS will allow the top surface of the cover to be flush with the finished floor. Includes: six (6) 1/16" (1.6mm) thick shims. Up to a total of 3/8" (9.5mm) of adjustment.		

Catalog No./Item	Description/Specifications
RFB6 9/16" [14mm] 3 1/4" [82.55mr	Six-Compartment Box – For use in either concrete or wood floors. Fully adjustable with tunnel compartment. Supplied with two (2) duplex mounting plates, two (2) communication mounting plates (RFB62A), and (2) blank mounting plates. Other plates sold separately.
[355mm] 14 5/8" [371mm]	Country of Origin: Mexico
RFB6-OG 9/16" [14mm] 3 1/4" [82.55mm] 14"	Six-Compartment On-Grade Box – For use in either concrete or wood floors. Fully adjustable with tunnel compartment. Supplied with two (2) duplex mounting plates two (2) communication mounting plates (RFB62A), and (2) blank mounting plates. Other plates sold separately.
[355mm] 14 5/8" [371mm]	Country of Origin: Mexico
	Six-Compartment Box – For use in concrete floors.I/8"For use with the round Evolution cover. Fully adjustablewith tunnel compartments. Supplied with two (2) duplex mounting plates. Other plates sold separately.m]Country of Origin: Mexico
	Six-Compartment On-Grade Box – For use in concrete floors. For use with the round Evolution cover. Fully adjustable with tunnel compartments. Supplied with two (2) duplex mounting plates. Other plates sold separately
14 5/8" [371mm]	nm] Country of Origin: Mexico



RFB6 8	& RFB6E Series Multiservice S	Steel Recessed Floo	r Box Accessories
Catalog No./Item RFB6DP	Description/Specifications Internal Duplex Receptacle Bracket – Accepts standard 15 & 20 Amp Duplex Receptacles. Country of Origin: USA NOTE: For use with RFB4E, RFB6 and RFB6E Series Floor Boxes.	Catalog No./Item	Description/Specifications Internal Single Receptacle Bracket – Receptacle opening 1 3/8" [35mm]. Country of Origin: USA NOTE: For use with RFB4E, RFB6 and RFB6E Series Floor Boxes.
RFB6B	Internal Blank Bracket – Closes off unused gangs. Country of Origin: USA NOTE: For use with RFB4E, RFB6 and RFB6E Series Floor Boxes.	RFB6S2	Internal Single Receptacle Bracket – Receptacle opening 1 9/16" [40mm]. Country of Origin: USA NOTE: For use with RFB4E, RFB6 and RFB6E Series Floor Boxes.
RFB6GFI	Internal GFI or Decorator Style Receptacle Bracket – Accepts standard GFCI & Decorator Style Receptacles, Communication or Audio/Video Devices. Country of Origin: USA NOTE: For use with RFB4E, RFB6 and RFB6E Series Floor Boxes.	RFB6RT	Internal Communication Bracket – Includes one (1) adapter to accept Ortronics® TracJack devices, and one (1) adapter to accept Ortronics® Series II devices (sold separately). Country of Origin: USA NOTE: For use with RFB4E, RFB6 and RFB6E Series Floor Boxes.

RFB	6 & RFB6E Series Multiservice S	Steel Recessed Floor	r Box Accessories		
Catalog No./Item	Description/Specifications	Catalog No./Item	Description/Specifications		
RFB62A	Internal Audio/Video Bracket – Accepts three (3) Legrand AVIP or Extron® Electronics MAAP Series devices (sold separately). Country of Origin: USA NOTE: For use with RFB4E, RFB6 and RFB6E Series Floor Boxes. Internal Communication Bracket – Includes two (2)	PKER Mudcap Extension Ring PK Preset	Extensions – Attaches to presadd height to preset. Can be finstalled. Extension Height Above Preset "A' PKER-10 1" [25mm] PKER-15 1 1/2" [38mm] PKER-20 2" [51mm] PKER-30 3" [76mm] Country of Origin: USA		
	adapters to accept Wiremold CM2 Series Open System communication inserts (sold separately). Country of Origin: USA NOTE: For use with RFB4E, RFB6 and RFB6E Series Floor Boxes.				
RFB6-AAP	Internal Audio/Video Bracket – Accepts two (2) Extron® Electronics AAP Series Devices (sold separately). Country of Origin: USA NOTE: For use with RFB4E, RFB6 and RFB6E Series Floor Boxes. Bare Concrete & Terrazzo Ring – Nonmetallic ring for use on bare	S3AXBP	Blanking Plate – Aluminum to plate with steel support plate a four (4) adjusting screws. Country of Origin: USA		
C C C C C C C C C C C C C C C C C C C	polished concrete and terrazzo floor applications. Country of Origin: USA NOTE: For use with RFB6 Series Floor Boxes.	RFB6KIT	Barrier Kit – Used to separate power and communication services. Used in combination with FloorPort Furniture Feed Covers (FPFFTC Series). Cove sold separately.		

Evolution Series Cover Assemblies for RFB6E & RFB6E-OG Floor Boxes Catalog No./Item **Description/Specifications** Catalog No./Item **Description/Specifications** Surface Style Cover Assembly -8CTC2BK 8CT2BK Flush-Style Cover Assembly -8CTC2BS Low profile cover designed to 8CT2BS Low profile covers that are 8CTC2GY attach to the 8STC and 8STCP 8CT2GY designed to attach to the 8STC 8CTC2NK Poke-Thru Stem Assemblies. Each 8CT2NK and 8STCP Poke-Thru Stem 8CTC2BZ cover is made from die-cast 8CT2BZ Assemblies. Each cover is made 8CTC2AL aluminum materials and equipped 8CT2AL from die-cast aluminum materials with a durable hinge which allows and equipped with a durable hinge the cover to rotate open 180°. which allows the cover to rotate two (2) slide egress doors that lock open 180°, two (2) slide egress in the open position and auto close doors that lock in the open position around the cables when the covers and auto close around the cables 9 1/4" are closed, an 8° beveled edge that 9 1/4" when the covers are closed. These (235mm) (235mm) meet ADA guidelines and reduces covers are designed to sit flush tripping hazards. These covers are with the finished floor surfaces designed to sit on top of the such as: carpet, tile and wood. finished floor surfaces such as: **NOTE: Includes 8TS** Available in six (6) powder-coated finishes: Black (BK), Brass (BS), Tile Shim. carpet, tile, wood, polished concrete and terrazzo. Available Gray (GY), Nickel (NK), Bronze (BZ) in six (6) aesthetic powder-coated and Aluminum (AL). finishes: Black (BK), Brass (BS), Country of Origin: USA Gray (GY), Nickel (NK), Bronze (BZ) No Bevel and Aluminum (AL). 8° Beveled Edge Country of Origin: USA ٠ 3/16 3/16" (4.8mm) (4.8mm) 8CTC2BKTR **Tamper-Resistant Surface Style** Tamper-Resistant Flush-Style 8CT2BKTR 8CTC2BSTR Cover Assembly - Low profile 8CT2BSTR Cover Assembly - Low profile 8CTC2GYTR cover designed to attach to the 8CT2GYTR covers that are designed to attach 8STC and 8STCP Poke-Thru Stem 8CTC2NKTR 8CT2NKTR to the 8STC and 8STCP Poke-Thru 8CTC2BZTR Assemblies. Each cover is made 8CT2BZTR Stem Assemblies. Each cover is 8CTC2ALTR from die-cast aluminum materials 8CT2ALTR made from die-cast aluminum and equipped with a tampermaterials and equipped with a resistant screw to keep out tamper-resistant screw to keep unauthorized personnel, a durable out unauthorized personnel, a hinge which allows the cover durable hinge which allows the to rotate open 180°, two (2) slide cover to rotate open 180°, two (2) egress doors that lock in the open 9 1/4" slide egress doors that lock in the 9 1/4" position and auto close around the (235mm) (235mm) open position and auto close cables when the covers are closed. around the cables when the covers an 8° beveled edge that meet ADA are closed. These covers are guidelines and reduces tripping designed to sit flush with the hazards. These covers are finished floor surfaces such as: designed to sit on top of the carpet, tile and wood. Available in **NOTE: Includes 8TS** finished floor surface such as: six (6) powder-coated finishes: Tile Shim. carpet, tile, wood, polished Black (BK), Brass (BS), Gray (GY), concrete and terrazzo. Available Nickel (NK), Bronze (BZ) and in six (6) aesthetic powder-coated Aluminum (AL). finishes: Black (BK), Brass (BS), **Country of Origin: USA** Gray (GY), Nickel (NK), Bronze (BZ) and Aluminum (AL). No Bevel 8° Beveled Edge Country of Origin: USA 3/16 3/16" (4.8mm) (4.8mm)

NOTE: All surface-style poke-thru devices come with a transition angle to aid in the change in floor elevation.

Evolution Series Cover Assemblies for RFB4E & RFB4E-OG Floor Boxes **Description/Specifications** Catalog No./Item **Description/Specifications** Catalog No./Item **RFB6E-CTR** Bare Concrete & Terrazzo Ring -8TS Tile Shim - Used for floor Nonmetallic ring for use with coverings greater than 5/16" 1 (7.9mm). The 8TS will allow the top surface of the cover to be flush bare concrete and terrazzo floor applications. with the finished floor. Includes: Country of Origin: USA two (2) 1/8" (3.2mm) and two (2) 1/16" (1.6mm) thick shims. Up NOTE: Only for use on RFB6E and RFB6E-OG Floor Boxes. to a total of 3/8" (9.5mm) of adjustment. NOTE: Designed to work with 8CTC & 8CT Series Covers only. **Country of Origin: USA**

FloorPort Series Cover Assemblies for RFB2, RFB4 & RFB6 Series Floor Boxes

FLOORPORT PART NUMBER CONFIGURATOR						
FP	B		TC	NK		
FloorPort Cover	Blank Top Cutout Top Furniture Feed	B C FF	Tile (Flangeless) T Tile/Carpet TC (Flanged)	Nickel Brass Black Bronze Gray Brushed Aluminum	NK BS BK BZ GY AL	

FloorPort Series Flanged Cover Assemblies Ordering Information

Catalog No./Item	Description/Specifications	Catalog No./Ite	m Description/Specifications
FPCTCBK FPCTCBZ FPCTCBS FPCTCNK FPCTCAL FPCTCGY	Cutout Cover Assembly – Flanged cover for use in tile or carpet installation. Die-cast aluminum assembly available in black (BK), bronze (BZ), brass (BS), nickel (NK), gray (GY), or brushed aluminum (AL). Insert in lid allows for carpet or tile cutouts to match finished floor.	FPFFTCBK FPFFTCBZ FPFFTCBS FPFFTCNK FPFFTCAL FPFFTCGY	Furniture Feed Cover Assembly – Flanged cover for use in tile or carpet installation. Die-cast aluminum assembly available in black (BK), bronze (BZ), brass (BS), nickel (NK), gray (GY), or brushed aluminum (AL). Provided with one 1" trade size screw plug for power or communication type cabling and one combination 1 1/4" and 2" trade size screw plug for
	Country of Origin: India		communication type cabling.
FPBTCBK FPBTCBZ	Blank Cover Assembly – Flanged cover for use in tile or		Allows for feeding both power and communication cabling.
FPBTCBS FPBTCNK	carpet installation. Die-cast aluminum assembly available in		Country of Origin: USA
FPBTCAL FPBTCGY	black (BK), bronze (BZ), brass (BS), nickel (NK), gray (GY), or brushed aluminum (AL). Lid area is flush with the finished floor, no cutouts provided.		
	Country of Origin: India		

FloorPort Series Flangeless Cover Assemblies Ordering Information						
Catalog No./Item	Description/Specifications		Catalog No./Item	Description/Specifications		
FPCTBK FPCTBZ FPCTBS FPCTNK FPCTAL FPCTGY	Cutout Cover Assembly – Flangeless cover for use in tile installations. Die-cast aluminum assembly available in black (BK), bronze (BZ), brass (BS), nickel (NK), gray (GY), or brushed aluminum (AL). Insert in lid allows for tile cutouts to match finished floor.		FPFFTBK FPFFTBZ FPFFTBS FPFFTNK FPFFTAL FPFFTGY	Furniture Feed Cover Assembly – Flangeless cover for use in tile installations. Die-cast aluminum assembly available in black (BK), bronze (BZ), brass (BS), nickel (NK), gray (GY), or brushed aluminum (AL). Provided with one 1" trade size screw plug for power or communication type cabling and		
FPBTBK FPBTBZ	Country of Origin: India Blank Cover Assembly – Flangeless cover for use in tile			one combination 1 1/4" and 2" trade size screw plug for communication type cabling. Allows for feeding both power and communication cabling.		
FPBTBS	installations. Die-cast aluminum			Country of Origin: USA		
FPBTNK FPBTAL FPBTGY	assembly available in black (BK), bronze (BZ), brass (BS), nickel (NK), gray (GY), or brushed aluminum (AL). Lid area is flush with the finished floor, no cutouts provided.		•	ending on country of origin. Consult your entative for more information.		
	Country of Origin: India					

North American Made FloorPort Series Cover Assemblies for RFB2, RFB4 & RFB6 Series Floor Boxes

<u>FP</u>	<u>B</u>		<u></u>	NK		NA
FloorPort Cover	Blank Top Cutout Top Furniture Feed	B C FF	Tile (Flangeless) T Tile/Carpet TC (Flanged)	Nickel Brass Black Bronze Gray Brushed Aluminum	NK BS BK BZ GY AL	North American NA Made

North Ameri	can Made FloorPort Series Fla	nged Cover Assemb	lies Ordering Information
Catalog No./Item	Description/Specifications	Catalog No./Item	Description/Specifications
FPCTCBK-NA FPCTCBZ-NA FPCTCBS-NA FPCTCCKK-NA FPCTCGY-NA FPCTC		FPFFTCBK FPFFTCBZ FPFFTCBS FPFFTCAL FPFFTCAL FPFFTCGY	Furniture Feed Cover Assemb Flanged cover for use in tile or carpet installation. Die-cast aluminum assembly available in black (BK), bronze (BZ), brass (E nickel (NK), gray (GY), or brushe aluminum (AL). Provided with or 1" trade size screw plug for pow or communication type cabling and one combination 1 1/4" and 2" trade size screw plug for
\sim	Country of Origin: USA		communication type cabling. Allows for feeding both power a
FPBTCBK-NA FPBTCBZ-NA FPBTCBS-NA	Blank Cover Assembly – Flanged cover for use in tile or carpet installation. Die-cast		communication cabling.
FPBTCNK-NA FPBTCGY-NA	aluminum assembly available in black (BK), bronze (BZ), brass (BS), nickel (NK), or gray (GY). Lid area is flush with the finished floor, no cutouts provided.	FPFFTBK FPFFTBZ FPFFTBS FPFFTNK FPFFTAL FPFFTGY	Furniture Feed Cover Assembl Flangeless cover for use in tile installations. Die-cast aluminum assembly available in black (BK) bronze (BZ), brass (BS), nickel (N gray (GY), or brushed aluminum (AL). Provided with one 1" trade
	Country of Origin: USA		 size screw plug for power or communication type cabling and one combination 1 1/4" and 2" trade size screw plug for communication type cabling.
LOAD CAPACITI FLOORPORT COVER			Allows for feeding both power an communication cabling.
CATALOG M NUMBERS	IAXIMUM LOAD IN POUNDS		Country of Origin: USA

NOTE: Pricing varies depending on country of origin. Consult your local sales representative for more information.

NOTE: Load applied through a 2" [51mm] mandrel in center of service fitting. Loads above are static loads only and do not pertain to rolling loads.

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FPCTC

FPBTC

FPFFTC

FPCT

FPBT

FPFFT



Electrical Wiring Systems

60 Woodlawn Street West Hartford, CT 06110 Phone: 1.877.BY.LEGRAND (295-3472) www.legrand.us 570 Applewood Crescent Vaughan, Ontario L4K 4B4 Phone:905.738.9195 www.legrand.ca

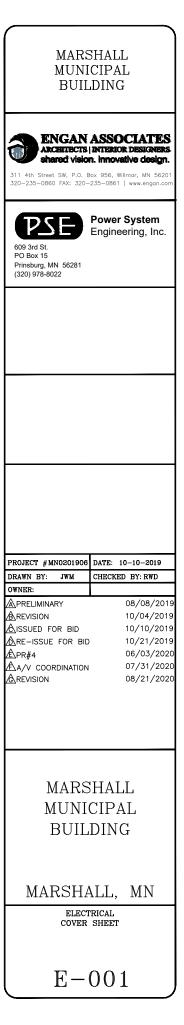
MARSHALL MUNICIPAL BUILDING

MARSHALL, MN

EL	ECTRICAL SYME	BOL LEGEND						
POWER								
◍◍◍▯▯▧▯▻◊◷▰▫◾▩◈▩	DUPLEX RECEPTACLE DOUBLE DUPLEX RECEPTACLE ISOLATED DUPLEX RECEPTACLE SPECIAL PURPOSE RECEPTACLE DISCONNECT SWITCH FUSED DISCONNECT SWITCH HAND-OFF-AUTO MOTOR STARTER MANUAL MOTOR STARTER SWITCH MOTOR - SEE MOTOR SCHEDULES JUNCTION BOX PANELBOARD REMOTE CONTROL PANEL PROXIMITY READER DOOR CONTACT ELECTRIC STRIKE	18" A.F.F. UNLESS NOTED OTHERWISE 18" A.F.F. UNLESS NOTED OTHERWISE 18" A.F.F. UNLESS NOTED OTHERWISE						
	LIGHTING	(SEE LIGHT FIXTURE SCHEDULE)						
	2'x2' LED FIXTURE -TYPICAL: TYPE A, CIRCUIT #, SWITCH LEG a 4"x2' LED FIXTURE -TYPICAL: TYPE H1&H2, CIRCUIT #, SWITCH LEG a 1'x2' LED FIXTURE -TYPICAL: TYPE I, CIRCUIT #, SWITCH LEG a 1'x4' LED FIXTURE -TYPICAL: TYPE F&E, CIRCUIT # LED DOWN LIGHT LED DOWN LIGHT LED WALL MOUNTED FIXTURE EXIT LIGHT LIGHT SWITCH 3-WAY LIGHT SWITCH 4-WAY LIGHT SWITCH EXIT LIGHT SWITCH CAMERA LINCTION BOX /OUTLET	96" A.F.F. UNLESS NOTED OTHERWISE 48" A.F.F. UNLESS NOTED OTHERWISE 48" A.F.F. UNLESS NOTED OTHERWISE 48" A.F.F. UNLESS NOTED OTHERWISE						
0 () () ()	CAMERA JUNCTION BOX/OUTLET COMPUTER/DATA/PRINTER JUNCTION BOX/OUTLET CEILING MOUNT SINGLE NETWORK JACK COMPUTER INPUT	18" A.F.F. UNLESS NOTED OTHERWISE						
	FIRE ALAR	Μ						
S F⊕ F⊡- F⊡- VC S DSD SFSD	SMOKE DETECTOR MAGNETIC DOOR HOLD OPEN DEVICE HORN/STROBE DEVICE STROBE LIGHT ONLY DEVICE VOICE COMMUNICATION STORBE LIGHT DEVICE DUCT SMOKE DETECTOR FIRE ALARM FAN SHUTDOWN RELAY	COORDINATE WITH DOOR HARDWARE 80" A.F.F. UNLESS NOTED OTHERWISE 80" A.F.F. UNLESS NOTED OTHERWISE 80" A.F.F. UNLESS NOTED OTHERWISE						
FACP RFAAP	FIRE ALARM CONTROL PANEL							
I	CONDUIT	-						
	EXPOSED CONDUIT STRAIGHT WITH BUILDING LINES CONCEALED CONDUIT CIRCUIT HOME RUN NOTE: ALL MEASUREMENTS ARE TO CENTER UN							

ELE	ECTRICAL A	BBF	REVIATIONS
	AMPERE	MAX	MAXIMUM
A A.F.F.	ABOVE FINISHED FLOOR	MCB	MAXIMOM MAIN CIRCUIT BREAKER
A.F.G.	ABOVE FINISHED GRADE	MIN	MINIMUM
AHU	AIR HANDLING UNIT	MISC.	MISCELLANEOUS
AL	ALUMINUM	MLO	MAIN LUGS ONLY
AMP	AMPERE		
APPROX AUTO	APPROXIMATELY AUTOMATIC	NC NFC	NORMALLY CLOSED CONTACT NATIONAL ELECTRICAL CODE
AUTO	AUTOMATIC	NEC	NATIONAL ELECTRICAL CODE NIGHT LIGHT
с	CONDUIT	NO	NORMALLY OPEN CONTACT
ČВ	CIRCUIT BREAKER	1.10	
CCTV	CLOSED CIRCUIT TELEVISION	ОН	OVERHEAD
CKT	CIRCUIT		
CR	CORROSION RESISTANT	PF	POWER FACTOR
CT	CURRENT TRANSFORMER	PH	PHASE
CU	COPPER	PT PVC	POTENTIAL TRANSFORMER POLYVINYL CHLORIDE
DWG	DRAWING	PVC	POLIVINIL CHLORIDE
0.00	DIGHING	RMC	RIGID METAL CONDUIT
EM	EMERGENCY	RTU	ROOF TOP UNIT
EMT	ELECTRICAL METALLIC TUBING		
		TV	TELEVISION
F	FUSE	TVSS	TRANSIENT VOLTAGE SURGE
GFI	ODOLIND FALLET INTERPLIPTED	TYP	SUPPRESSOR
GFI	GROUND FAULT INTERRUPTER		TYPICAL
ноа	HAND-OFF-AUTOMATIC SWITCH	UF	UNDERGROUND ELECTRICAL
HP	HORSEPOWER	02	
		V	VOLT
IMC	INTERMEDIATE METAL CONDUIT	VA	VOLT-AMPERES
J-BOX	JUNCTION BOX	w	WATT
kV box	KILOVOLT	ŴP	WEATHERPROOF
kVA	KILOVOLT-AMPERE		
kVAR	KILOVOLT-AMPERE REACTIVE	XF	TRANSFORMER
kW	KILOWATT		
kWH	KILOWATT HOUR		

				A				
	ELECTRICAL SHEET INDEX							
DRAWING			REVISION	REVISED				
NUMBER	SHEET DESCRIPTION	ISSUED DATE	NUMBER	DATE				
E-001	ELECTRICAL COVER SHEET	10/10/2019	G	8/21/2020				
E-101	ELECTRICAL ONE-LINE RISER DIAGRAM	10/10/2019	D	10/21/2019				
E-201	ELECTRICAL LIGHTING PLAN - LOWER LEVEL	10/10/2019	D	10/21/2019				
E-202	ELECTRICAL LIGHTING PLAN - MAIN LEVEL	10/10/2019	F	8/21/2020				
E-203	ELECTRICAL LIGHTING PLAN - UPPER LEVEL	10/10/2019	D	10/21/2019				
E-301	ELECTRICAL POWER PLAN - LOWER LEVEL	10/10/2019	D	10/21/2019				
E-302	ELECTRICAL POWER PLAN - MAIN LEVEL	10/10/2019	G	8/21/2020				
E-303	ELECTRICAL POWER PLAN - UPPER LEVEL	10/10/2019	G	8/21/2020				
E-401	ELECTRICAL EMERGENCY & ACCESS PLAN - LOWER LEVEL	10/10/2019	D	10/21/2019				
E-402	ELECTRICAL EMERGENCY & ACCESS PLAN - MAIN LEVEL	10/10/2019	F	8/21/2020				
E-403	ELECTRICAL EMERGENCY & ACCESS PLAN - UPPER LEVEL	10/10/2019	D	10/21/2019				
E-501	ELECTRICAL SCHEDULES	10/10/2019	D	10/21/2019				
E-502	ELECTRICAL SCHEDULES	10/10/2019	D	10/21/2019				
E-503	ELECTRICAL SCHEDULES	10/10/2019	G	8/21/2020				
E-601	ELECTRICAL DEMO PLAN - LOWER LEVEL	10/10/2019	D	10/21/2019				
E-602	ELECTRICAL DEMO PLAN - MAIN LEVEL	10/10/2019	D	10/21/2019				
E-603	ELECTRICAL DEMO PLAN - UPPER LEVEL	10/10/2019	D	10/21/2019				

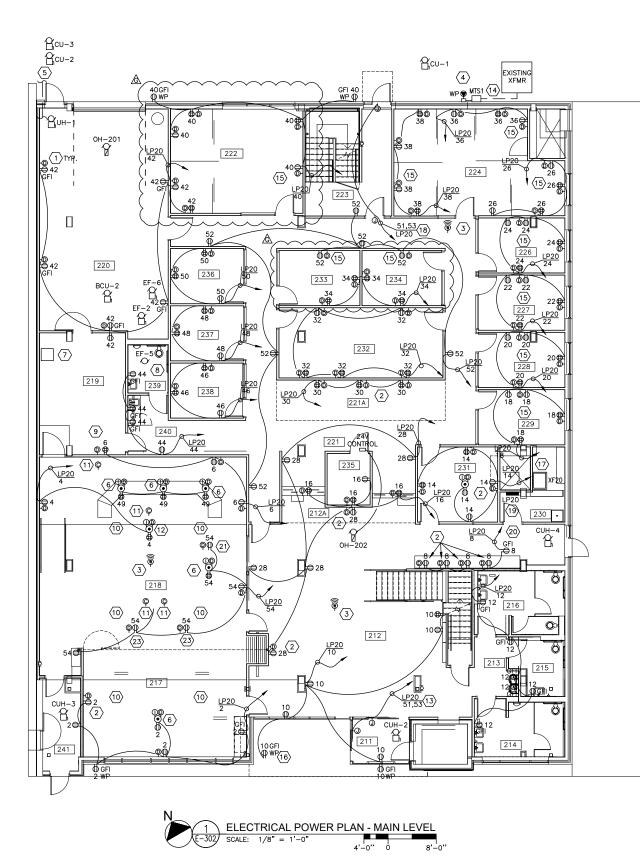


- OTHERWISE.
- ROUGH-IN.

KEYED NOTES

- TRANSFORMER

- /G
- (22 NOT USED)



GENERAL NOTES

A MINIMUM WIRE SIZE SHALL BE #12 AWG COPPER TYPE THHN UNLESS SPECIFICALLY NOTED OTHERWISE

B EMT CONDUIT SYSTEM SHALL BE UTILIZED FOR INTERIOR ABOVE ACCESSIBLE CEILING WIRING. METAL-CLAD (TYPE MC) CABLE IS ALLOWED FOR WIRING CONCEALED IN WALLS.

C ELECTRICAL CONTRACTOR SHALL UTILIZE RIGID STEEL CONDUIT OR IMC AND LIQUID TIGHT FLEXIBLE METAL CONDUIT AS PART OF THE ELECTRICAL WIRING SYSTEM FOR ALL OUTDOOR ABOVE GROUND INSTALLATIONS.

D INTERIOR RECEPTACLES SHALL BE MOUNTED AT 18" ABOVE FINISHED FLOOR TO CENTER OF OPENING UNLESS NOTED OTHERWISE.

E EXTERIOR RECEPTACLES SHALL BE MOUNTED AT 24" ABOVE FINISHED GRADE TO CENTER OF OPENING UNLESS NOTED

F VERIFY MOUNTING HEIGHT OF DEVICES ABOVE COUNTERTOPS WITH CABINET SUPPLIER AND ARCHITECTURAL ELEVATIONS PRIOR TO

RECEPTACLES INSTALLED IN FIREWALL SHALL HAVE FIRE RATING EQUAL OR GREATER THAN THAT OF THE FIREWALL. SEE G-011 FOR FIRE PLAN.

PROVIDE NECESSARY PORTS AND CONDUCTORS FOR INSTALLATION OF VIDEO SCREEN. MOUNT AT 75" AFF. COORDINATE WITH OWNER FOR EXACT REQUIREMENTS. PROVIDE FOUR SQUARE JUNCTION BOX WITH ONE GANG TRIM RING ADJACENT TO POWER AND DATA WITH (1) 1-1/4" CONDUIT STUBBED TO ACCESSIBLE CEILING. COORDINATE EXACT DETAILS WITH A/V CONTRACTOR.

3 PROVIDE DATA PORT FOR WIRELESS CEILING MOUNTED ACCESS POINT. COORDINATE WITH OWNER FOR EXACT LOCATION.

4 PROVIDE MANUAL TRANSFER SWITCH 'MTS1' AND GENERAL RECEPTACLE FOR GENERATOR BACKFEED. SEE E-101 FOR ADDITIONAL INFORMATION.

5 APPROXIMATE BUILDING ENTRANCE LOCATION OF TELECOM CABLE.

6 FLOOR BOX WITH RECEPTICALES, DATA PORTS, AND A/V INPUTS. FLOOR BOX SHALL BE FLUSH WITH FLOOR SURFACE. PROVIDE (1) 1-1/4" CONDUIT FROM FLOOR BOX DIRECTLY OT THE IN-WALL PULL BOX AT A/V EQUIPMENT RACK LOCATION FOR A/V CABLES.

7 APPROXIMATE LOCATION OF PATCH PANEL FOR LOWER AND MAIN LEVEL.

8 EXHAUST FANS IN ROOM SHALL BE CONTROLLED BY CEILING MOUNTED DCCUPANCY SENSOR ONLY. SEE SHEET E-202 FOR ADDITIONAL OCCUPANCY SENSOR DETAILS.

9 APPROXIMATE LOCATION OF A/V EQUIPMENT RACK, PROVIDE HOFFMAN ASG18X18X6NK PULL BOX AT RACK LOCATION WITH (3) 1-1/4" CONDUITS STUBBED INTO ACCESSIBLE CEILING SPACE OF ROOM 218.

10 APPROXIMATE LOCATION OF PA AUDIO SYSTEM SPEAKER. EXACT DETAILS SHALL BE REVIEWED WITH OWNER AND A/V CONSULTANT PRIOR TO CONSTRUCTION

11 APPROXIMATE LOCATION OF PAN-TILT-ZOOM CAMERA FROM A/V EQUIPMENT RACK. EXACT DETAILS SHALL BE REVIEWED WITH OWNER AND A/V CONSULTANT PRIOR TO CONSTRUCTION

12 FLOOR BOX WITH RECEPTACLES, DATA PORTS, COMPUTER INPUT, AND A/V INPUTS. FLOOR BOX SHALL BE FLUSH WITH FLOOR SURFACE. PROVIDE (1) 1-1/4" CONDUIT FROM FLOOR BOX DIRECTLY TO THE IN-WALL J-BOX AT A/V EQUIPMENT RACK LOCATION FOR A/V CABLES. EXACT DETAILS SHALL BE REVIEWED WITH OWNER AND A/V CONSULTANT PRIOR TO CONSTRUCTION.

13 PROVIDE 120V POWER TO DOOR OPERATORS. EXACT DETAILS OF ELECTRICAL REQUIREMENTS SHALL BE REVIEWED BY DOOR HARDWARE SUPPLIER PRIOR TO CONSTRUCTION.

14 FIELD VERIFY EXISTING CONDUIT TO TRANSFORMER. REUSE IF POSSIBLE.

15 PROVIDE NECESSARY PORTS AND CONDUCTORS FOR WALL MOUNTED REVIEW MONITOR MOUNTED AT APPROXIMATELY 5' ABOVE FINISHED FLOOR. COORDINATE WITH ROOM CASEWORK SO THAT RECEPTACLE AND DATA PORT ARE CONCEALED BEHIND REVIEW MONITOR.

16 PROVIDE RECEPTACLE IN UNDERSIDE OF EXTERIOR SOFFIT.

17 PROVIDE 4" HIGH HOUSEKEEPING PAD TO EXTEND 2" BEYOND

18 AS AN ALTERNATE TO THE BASE BID, PROVIDE 120V POWER TO DOOR OPERATORS. EXACT DETAILS OF ELECTRICAL REQUIREMENTS SHALL BE REVIEWED BY DOOR HARDWARE SUPPLIER PRIOR TO CONSTRUCTION.

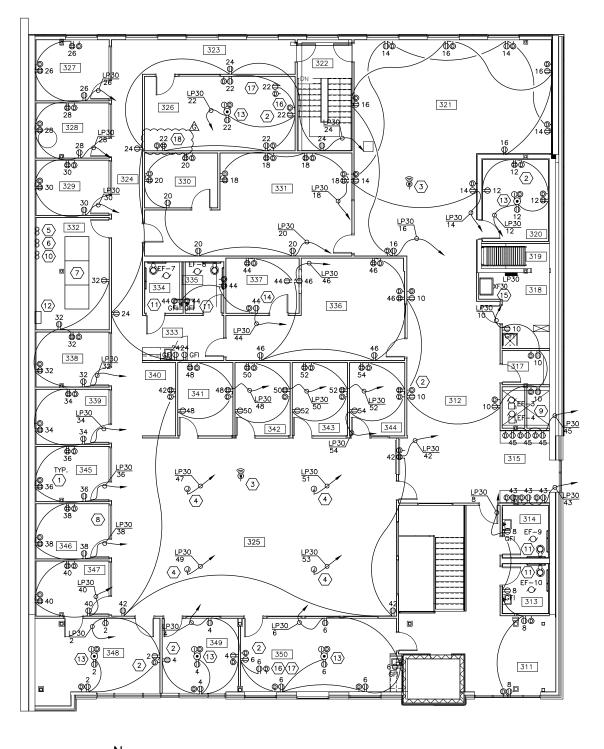
19 COORDINATE LOCATION OF LP20 WITH MECHANICAL CONTRACTORS TO ENSURE PROPER WORKING DISTANCE AND DEDICATED SPACE.

20 COORDINATE DOOR SWING WITH GENERAL CONTRACTOR SO DOOR DOES NOT INTERFERE WITH WORKING SPACE.

21 COORDINATE LOCATION RECEPTACLE FOR PROJECTOR WITH OWNER AND A/V CONSULTANT PRIOR TO CONSTRUCTION.

23 PROVIDE NECESSARY PORTS AND CONDUCTORS FOR INSTALLATION OF VIDEO SCREEN. COORDINATE WITH OWNER FOR EXACT REQUIREMENTS.

MARSHALL MUNICIPAL BUILDING ENGAN ASSOCIATES ARCHITECTS | INTERIOR DESIGNED shared vision. innovative design 11 4th Street SW. P.O. Box 956. Willmar. MN 562 20-235-0860 FAX: 320-235-0861 | www.engan.c Power System Engineering, Inc. 609 3rd St PO Box 15 Prinsburg, MN 56281 (320) 978-8022 PROJECT #MN0201906 DATE: 10-10-2019 DRAWN BY: JWM CHECKED BY: RWD OWNER 08/08/2019 A PRFLIMINARY REVISION 10/04/2019 SUED FOR BID 10/10/2019 ARE-ISSUE FOR BID 10/21/2019 APR#4 06/03/2020 07/31/2020 A/V COORDINATION 08/21/202 MARSHALL **MUNICIPAL** BUILDING MARSHALL, MN ELECTRICAL POWER PLAN MAIN LEVEL E - 302





1 /A

GENERAL NOTES

A MINIMUM WIRE SIZE SHALL BE #12 AWG COPPER TYPE THHN UNLESS SPECIFICALLY NOTED OTHERWISE.

B EMT CONDUIT SYSTEM SHALL BE UTILIZED FOR INTERIOR ABOVE ACCESSIBLE CEILING WIRING. METAL-CLAD (TYPE MC) CABLE IS ALLOWED FOR WIRING CONCEALED IN WALLS.

C ELECTRICAL CONTRACTOR SHALL UTILIZE RIGID STEEL CONDUIT OR IMC AND LIQUID TIGHT FLEXIBLE METAL CONDUIT AS PART OF THE ELECTRICAL WIRING SYSTEM FOR ALL OUTDOOR ABOVE GROUND INSTALLATIONS.

D INTERIOR RECEPTACLES SHALL BE MOUNTED AT 18" ABOVE FINISHED FLOOR TO CENTER OF OPENING UNLESS NOTED OTHERWISE.

E EXTERIOR RECEPTACLES SHALL BE MOUNTED AT 24" ABOVE FINISHED GRADE TO CENTER OF OPENING UNLESS NOTED OTHERWISE.

VERIFY MOUNTING HEIGHT OF DEVICES ABOVE COUNTERTOPS WITH CABINET SUPPLIER AND ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.

KEYED NOTES

RECEPTACLES INSTALLED IN FIREWALL SHALL HAVE FIRE RATING EQUAL OR GREATER THAN THAT OF THE FIREWALL. SEE G-011 FOR FIRE PLAN.

2 PROVIDE NECESSARY PORTS AND CONDUCTORS FOR INSTALLATION OF VIDEO SCREEN.

3 PROVIDE DATA PORT FOR WIRELESS CEILING MOUNTED ACCESS POINT. COORDINATE WITH OWNER FOR EXACT LOCATION.

4 CUBICAL RECEPTACLES AND DATA PORTS TO BE FED FROM THE DROP DOWN CEILING. UTILIZE RACEWAY COMPATIBLE WITH CUBICAL SYSTEM.

5 (2) 2" CONDUIT TO TELECOM BUILDING ENTRANCE LOCATION.

6 (2) 2" CONDUIT TO PATCH PANEL BELOW.

7 APPROXIMATE LOCATION OF SERVER AND UPPER LEVEL PATCH PANEL. PROVIDE (4) SPARE 120V 20A CIRCUITS FROM LP30 TO SERVER LOCATION FOR FUTURE USE.

8 FURNITURE LAYOUT TYPICAL OF STANDARD OFFICE.

9 EF-3 AND EF-4 LOCATED ON ROOF.

10 PROVIDE (2) 1" CONDUIT TO BATTERY BACKUP LOCATION IN THE BASEMENT. COORDINATE WITH OWNER FOR EXACT LOCATION.

11 EXHAUST FANS IN ROOM SHALL BE CONTROLLED BY CEILING MOUNTED OCCUPANCY SENSOR ONLY. SEE SHEET E-203 FOR ADDITIONAL OCCUPANCY SENSOR DETAILS.

12 OWNER SUPPLIED BUILDING ACCESS CONTROL PANEL IN APPROXIMATE LOCATION IN SERVER ROOM. COORDINATE WITH OWNER FOR EXACT LOCATION.

13 FLOOR BOX WITH RECEPTACLES, DATA PORTS AND COMPUTER INPUT. FLOOR BOX SHALL BE FLUSH WITH FLOOR SURFACE. PROVIDE (1) 1-1/4 CONDUIT FROM FLOOR BOX DIRECT TO THE CHEIF PAC525FW IN-WALL STORAGE BOX. FOR ROOMS WITHOUT THE IN-WALL STORAGE BOX, PROVIDE (1) 1-1/4" CONDUIT STUBBED DIRECTLY TO ACCESSIBLE CEILING WITHIN THE ROOM FOR AV CABLES.

14 PROVIDE NECESSARY PORTS AND CONDUCTORS FOR WALL MOUNTED REVIEW MONITOR MOUNTED AT APPROXIMATELY 5' ABOVE FINISHED FLOOR. COORDINATE WITH ROOM CASEWORK SO THAT RECEPTACLE AND DATA PORT ARE CONCEALED BEHIND REVIEW MONITOR.

15 PROVIDE 4" HIGH HOUSEKEEPING PAD TO EXTEND 2" BEYOND TRANSFORMER.

16 GENERAL CONTRACTOR TO PROVIDE IN-WALL STORAGE BOX BEHIND DISPLAY. CENTER UNIT 60" AFF. PROVIDE POWER IN TOP KNOCKOUT OF STORAGE BOX AND PROVIDE DATA JUNCTION BOX INSIDE STORAGE BOX. PROVIDE (2) 1-1/4" CONDUITS STUBBED UP TO ACCESSIBLE CEILING FOR AVV AND DATA CABLES.

17 INSTALL 2X2 CEILING MOUNTED ENCLOSURE ADJACENT TO WALL MOUNTED DISPLAY. FSR CB-22 FURNISHED BY A/V CONTRACTOR. PROVIDE POWER AND DATA AT CEILING ENCLOSURE.

18 AV EQUIPMENT RACK LOCATION. PROVIDE FOUR SQUARE) JUNCTION BOX WITH ONE GANG TRIM RING ADJACENT TO POWER AND DATA WITH (1) 1-1/4" CONDUIT STUBBED TO ACCESSIBLE CEILING.

MARSHALL MUNICIPAL BUILDING ENGAN ASSOCIATES ARCHERCTS | INTERIOR DESIGNER shared vision. innovative design 11 4th Street SW. P.O. Box 956. Willmar. MN 562 20-235-0860 FAX: 320-235-0861 | www.engan.c Power System PSE Engineering, Inc. 609 3rd St PO Box 15 Prinsburg, MN 56281 (320) 978-8022 PROJECT #MN0201906 DATE: 10-10-2019 DRAWN BY: JWM CHECKED BY: RWD OWNER A PRFLIMINARY 08/08/2019 REVISION 10/04/2019 10/10/201 AISSUED FOR BID ARE-ISSUE FOR BID 10/21/2019 APR#4 06/03/2020 07/31/2020 A/V COORDINATION 08/21/202 MARSHALL MUNICIPAL BUILDING MARSHALL, MN ELECTRICAL POWER PLAN UPPER LEVEL

E - 303

		CATION.	ROOM 12	4		VOLIS:	208/120 WY	C	AIC RATING:	22,000
E (AMPS): 225		EL LUGS:	MCB		CONFIGU		3-PHASE, 4		MOUNTING:	
TYPED CIRCUIT DI		L L035.	NCD				BOLT ON CI			SON ACE
AND GROUND BUS							EQUIPMEN			
			CIRCUIT	Р	CIRCUIT	TROUBL	CIRCUIT	LOAD		
	BREAKER	POLES	#	н	#	POLES	BREAKER	VA	CIRCUIT DESCRIPTION	ROOM
512	20	1	1	A	2	1	20		GENERAL RECEPTACLE	100.111.112.115. HOISTWA
510	20	1	3	В	4	1	20	800	GENERAL RECEPTACLE	113
640	20	1	5	С	6	1	20	800	GENERAL RECEPTACLE	114,118
436	20	1	7	Α	8	1	20	400	GENERAL RECEPTACLE	114
416	20	1	9	В	10	1	20	400	GENERAL RECEPTACLE	114
544	20	1	11	С	12	1	20	800	GENERAL RECEPTACLE	120
192	20	1	13	Α	14	1	20	600	GENERAL RECEPTACLE	120
200	20	1	15	В	16	1	20	1200	GENERAL RECEPTACLE	121,122
864	20	1	17	С	18	1	20	800	GENERAL RECEPTACLE	116,117
864	20	1	19	Α	20	1	20	800	GENERAL RECEPTACLE	118
312	20	1	21	В	22	1	20	800	GENERAL RECEPTACLE	118
360	20	1	23	С	24	1	20	1000	GENERAL RECEPTACLE	119,124
360	20	1	25	А	26	1	20	200	GENERAL RECEPTACLE	114
360	20	1	27	В	28	1	20	200	GENERAL RECEPTACLE	
312	20	1	29	С	30	1	20	400	GENERAL RECEPTACLE	
1656	20	1	31	А	32	1	20		SPARE	
696	20	1	33	В	34	1	20		SPARE	
240	20	1	35	С	36	1	20		SPARE	
240	20	1	37	А	38	1	20		SPARE	
240	20	1	39	В	40	1	20	1000	EXISTING SUMP PUMP	124
790	20	2	41	С	42	1	20	1400	ELEVATOR CAR	100
790	-	-	43	А	44	2	30		DRYER	120
685	20	3	45	В	46	-	-	5000	-	-
685	-	-	47	С	48	-	ST		ELEVATOR SHUNT TRIP CIRCUIT	
685	-	-	49	А	50	1	20		SPARE	
		1	51	В	52	1	20			
	20	1	53	С	54	1	20		SPARE	
		20 20	20 1 20 1	20 1 51 20 1 53	20 1 51 B 20 1 53 C	20 1 51 B 52 20 1 53 C 54	20 1 51 B 52 1 20 1 53 C 54 1	20 1 51 B 52 1 20 20 1 53 C 54 1 20	20 1 51 B 52 1 20 20 1 53 C 54 1 20	20 1 51 B 52 1 20 SPARE

	DANE	1 500		0.171011			HEDULE	1.001 70		_	US DATING	
	PANEL:	LP20	LC	CATION:	ROOM 23	J		VOLTS:	208/120 WY	E	AIC RATING:	22,000
	BUS SIZE (AMPS):	225	PANE	EL LUGS:	MCB		CONFIGL	JRATION:	3-PHASE, 4-	-WIRE	MOUNTING:	SURFACE
1,	PROVIDE POCKET SLIDE-IN TYPED CIRC	UIT DIRE	CTORY				3.	PROVIDE	BOLT ON CI	RCUIT BR	EAKERS	
2.	PROVIDE COPPER PHASE AND GROUNE	BUSES					4	PROVIDE	EQUIPMENT	GROUND	BUS	
		LOAD	CIRCUIT		CIRCUIT	Р	CIRCUIT		CIRCUIT	LOAD		
ROOM	CIRCUIT DESCRIPTION	VA	BREAKER	POLES	#	н	#	POLES	BREAKER	VA	CIRCUIT DESCRIPTION	ROOM
219,220,222	LIGHTING	528	20	1	1	Α	2	1	20	1200	GENERAL RECEPTACLE	217.241.OUTDOORS
224-229	LIGHTING	612	20	1	3	В	4	1	20	600	GENERAL RECEPTACLE	218
217,218,241	LIGHTING	1012	20	1	5	С	6	1	20	600	GENERAL RECEPTACLE	218
221,221A,232-240	LIGHTING	1404	20	1	7	Α	8	1	20	1000	GENERAL RECEPTACLE	212
211-216,230,231	LIGHTING	1264	20	1	9	В	10	1	20	1600	GENERAL RECEPTACLE	211,212,OUTDOORS
OUTDOORS	LIGHTING	100	20	1	11	С	12	1	20	1200	GENERAL RECEPTACLE	213-216,230
OUTDOORS	LIGHTING	480	20	1	13	Α	14	1	20	1400	GENERAL RECEPTACLE	231
220	OH-201	960	20	1	15	В	16	1	20	1400	GENERAL RECEPTACLE	221,235
212A	OH-202	960	20	1	17	С	18	1	20	1200	GENERAL RECEPTACLE	229
220	UH-1	864	20	1	19	Α	20	1	20	1200	GENERAL RECEPTACLE	228
211	CUH-2	312	20	1	21	В	22	1	20	1400	GENERAL RECEPTACLE	227
241	CUH-3	312	20	1	23	С	24	1	20	1200	GENERAL RECEPTACLE	226
220	EF-2	696	20	1	25	Α	26	1	20	1200	GENERAL RECEPTACLE	224
EAST ENTRY	CUH-4	312	20	1	27	В	28	1	20	1200	GENERAL RECEPTACLE	212,212A,221
220	EF-6	36	20	1	29	С	30	1	20	1200	GENERAL RECEPTACLE	221A
OUTDOORS	CU-2	583	20	2	31	Α	32	1	20	1600	GENERAL RECEPTACLE	232
	-	583	-	-	33	В	34	1	20	2000	GENERAL RECEPTACLE	233,234
OUTDOORS	CU-3	583	20	2	35	С	36	1	20	800	GENERAL RECEPTACLE	224
	-	583	-	-	37	Α	38	1	20	1200	GENERAL RECEPTACLE	224
220	BCU-2	790	20	2	39	В	40	1	20	2000	GENERAL RECEPTACLE	222, OUTDOORS
-	-	790	-	-	41	С	42	1	20	1200	GENERAL RECEPTACLE	220
ELEVATOR SHAFT	LIGHTING	42	20	1	43	Α	44	1	20	1200	GENERAL RECEPTACLE	219,239,240
	SPARE		20	1	45	В	46	1	20	1000	GENERAL RECEPTACLE	238
	SPARE		20	1	47	С	48	1	20	1000	GENERAL RECEPTACLE	237
218	GENERAL RECEPTACLE	1200	20	1	49	Α	50	1	20	1000	GENERAL RECEPTACLE	236
211	FACP (FIRE ALARM CONTROL PANEL)	500	20	1	51	В	52	1	20	1200	GENERAL RECEPTACLE	HALL
211.223	DOOR OPERATORS	1000	20	1	53	С	54	1	20	1200	GENERAL RECEPTACLE	217.218

					PANEL S	CHE	DULE						٦
	PANEL:	LP30	LC	CATION:	ROOM 31	8		VOLTS:	208/120 WY	E	AIC RATING:	22,000	7
	BUS SIZE (AMPS):	225	PANE	L LUGS:	MCB		CONFIGU	RATION:	3-PHASE, 4	-WIRE	MOUNTING:	SURFACE	
1.	PROVIDE POCKET SLIDE-IN TYPE	D CIRCUIT	DIRECTORY	·			3.	PROVIDE	BOLTONC	IRCUIT BF	EAKERS		-
2.	PROVIDE COPPER PHASE AND C	ROUND B	USES				4.	PROVIDE	EQUIPMEN	T GROUN	D BUS		
		LOAD	CIRCUIT		CIRCUIT	Р	CIRCUIT		CIRCUIT	LOAD			-
ROOM	CIRCUIT DESCRIPTION	VA	BREAKER	POLES	#	н	#	POLES	BREAKER	VA	CIRCUIT DESCRIPTION	ROOM	
323-325,333,340	LIGHTING	1044	20	1	1	Α	2	1	20	800	GENERAL RECEPTACLE	348	-
27-329,332,338,339,345-347	LIGHTING	684	20	1	3	В	4	1	20	1000	GENERAL RECEPTACLE	349	-
348-350	LIGHTING	504	20	1	5	С	6	1	20	1200	GENERAL RECEPTACLE	350	
326,330,331	LIGHTING	396	20	1	7	Α	8	1	20	800	GENERAL RECEPTACLE	311,313-315	
334-337,340-344	LIGHTING	612	20	1	9	В	10	1	20	1200	GENERAL RECEPTACLE	312,316-318	
317-321	LIGHTING	600	20	1	11	С	12	1	20	1200	GENERAL RECEPTACLE	320	-
311-315	LIGHTING	720	20	1	13	Α	14	1	20	1000	GENERAL RECEPTACLE	321	
ROOF	EF-3	312	20	1	15	В	16	1	20	1000	GENERAL RECEPTACLE	321	-
ROOF	EF-4	696	20	1	17	С	18	1	20	1600	GENERAL RECEPTACLE	331	
	SPARE		20	1	19	Α	20	1	20	1400	GENERAL RECEPTACLE	330,331	1
	SPARE		20	1	21	В	22	1	20	1400	GENERAL RECEPTACLE	326	1
	SPARE		20	1	23	С	24	1	20	1200	GENERAL RECEPTACLE	322-324,333	$\neg \frown$
	SPARE		20	1	25	Α	26	1	20	1000	GENERAL RECEPTACLE	327	_
332	IT EQUIPMENT		20	1	27	В	28	1	20	1000	GENERAL RECEPTACLE	328	-
332	IT EQUIPMENT		20	1	29	С	30	1	20	1000	GENERAL RECEPTACLE	329	-
332	IT EQUIPMENT		20	1	31	Α	32	1	20	1400	GENERAL RECEPTACLE	332,338	-
332	IT EQUIPMENT		20	1	33	В	34	1	20	1000	GENERAL RECEPTACLE	339	
	SPARE		20	1	35	С	36	1	20	1000	GENERAL RECEPTACLE	345	-
	SPARE		20	1	37	Α	38	1	20	1000	GENERAL RECEPTACLE	346	
	SPARE		20	1	39	В	40	1	20	1000	GENERAL RECEPTACLE	347	
	SPARE		20	1	41	С	42	1	20	1200	GENERAL RECEPTACLE	325,340	
315	GENERAL RECEPTACLE	600	20	1	43	Α	44	1	20	1400	GENERAL RECEPTACLE	334,335,337	1
315	GENERAL RECEPTACLE	600	20	1	45	В	46	1	20	1400	GENERAL RECEPTACLE	336	
325	GENERAL RECEPTACLE	1000	20	1	47	С	48	1	20	1000	GENERAL RECEPTACLE	341	٦
325	GENERAL RECEPTACLE	1000	20	1	49	Α	50	1	20	1000	GENERAL RECEPTACLE	342	1
325	GENERAL RECEPTACLE	1000	20	1	51	В	52	1	20	1000	GENERAL RECEPTACLE	343	
325	GENERAL RECEPTACLE	1000	20	1	53	С	54	1	20	1000	GENERAL RECEPTACLE	344	7

MUNI	SHALL CIPAL DING
ARCHIBCTS shared vision	ASSOCIATES INTERIOR DESIGNERS In Innovative design. Iox 956, Willmar, MN 56201 235-0861 www.engan.com
609 3rd St. PO Box 15 Prinsburg, MN 56281 (320) 978-8022	Power System Engineering, Inc.
PROJECT #MN0201906	DATE: 10-10-2019
DRAWN BY: JWM	CHECKED BY: RWD
OWNER:	08/08/2019
	10/04/2019
AISSUED FOR BID	10/10/2019
ARE-ISSUE FOR BID	
ÆPR#4	06/03/2020
Aa/v coordination	07/31/2020 08/21/2020
MARS MUNI BUIL	CIPAL
MUNI BUIL MARSHA	CIPAL DING ALL, MN
MUNI BUIL MARSHA ELECT SCHEJ	CIPAL DING ALL, MN



Building Together

DATE: February 1, 2021

TO: Andy Engan; Engan Architects

CC: Nathan Hrdlichka; Brennan Construction

FROM: John van Dyck; Brennan Construction

RE: Marshall Municipal CR 26; Costs related to RFI 40

Contractor	Item Description	Labor	Material	Total
Subcontractors:				
Chappell	HVAC changes per RFI 40			\$ 8,862.00
			Subs Subtotal:	\$ 8,862.00
Brennan Companies:				
Brennan Companies	Material for RFI 40			\$ 200.00
Brennan Companies	Bond Change @ 1%]		\$ 88.62
]		
			GC Subtotal:	\$ 288.62

10% OH&P on subs	\$ 886.20
10% OH&P on GC	\$ 28.86
TOTAL:	\$ 10,066.00

Approved:

Ala a



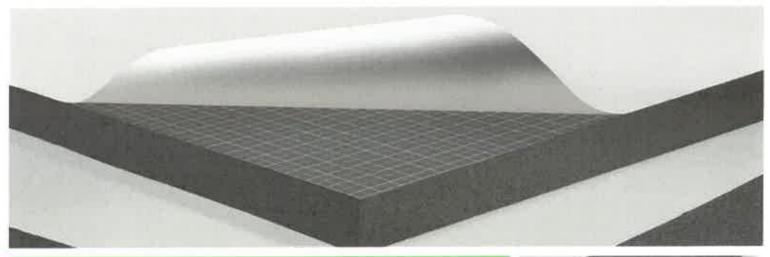
	DATE:	1/5/2021
Chappell Central, Inc. 1950 Trott Avenue SW		
Willmar, MN 56201	CHAPPELL CENTRAL	
(320)235-2151	MECH RQST #	
	RFI NO.	40
	OWNER PROJECT	C
PROJECT: Marshall Municipal	ARCH PROJECT	0
LOCATION: Marshall, MN	FILE	0

DESCRIPTION OF CHANGE: RFI-40 - Line interlor of shaft with (2) layers of 1" elastomeric flexible insulation. We will attached flexible insulation to rigid insulation provided and installed by others.

Insulation data sheet provided for reference.

BASE LABOR	\$ 66.38		48 H	RS \$	3,186.24	SUBCONTRACTOR:
Bae Labor includes shop fal	brication &	fie	ld crew ins	tallation		
UNEMPLOYMENT TAXES IN	20.95%	\$	667.52	\$	3,853.76	
SUPERVISION	5%	\$	192.69	\$	4,046.45	TOTAL MATERIALS Elastomeric insulation \$ 2.935.00
SAFETY & CLEAN-UP	5%	\$	192.69	\$	4,239.13	(2 layers of 1" líner)
SMALL TOOLS	5%	\$	192.69	\$	4,431.82	
MATERIAL HANDLING	5%	\$	192.69	\$	4,624.51	
SUBS/ MILEAGE / VEHICLE	\$ 5.90	\$	283.20	\$	4,907.71	
	LABOR SI	JBT	OTAL	\$	4,907.71	SUBTOTAL \$ 2,935.00

SPECIAL NOTATIONS & / OR EXCLUSIONS:	SUBTOTAL	MATERIAL & LABOR	\$ 7,842.71
WRITTEN AUTHORIZATION REQUIRED TO PROCEED PROPOSAL SUBJECT TO CHANGE AFTER 30 DAYS OR PER PROJECT SCHEDULE.	10%	P. & O.	\$ 784.29
3. PRICE BREAKDOWNS ATTACHED AS APPLICABLE	5%	P. & O. (Subcontractor)	
		STATE SALES TAX	\$ 235.00
		TOTAL THIS REQUEST	\$ 8,862.00 ADD



ENERGY SAVING SOLUTIONS

AP ArmaFlex SA AP ArmaFlex FS SA Self-adhering Sheet and Roll Insulation

The original fiber-free, flexible elastomeric sheet and roll for equipment, vessel, and duct insulation – available with a labor-saving self-adhering system – for reliable protection against condensation, mold and energy loss. AP ArmaFlex® FS SA is PVC free.

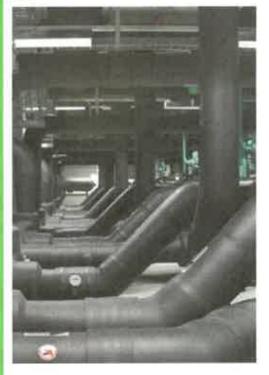
- // Self-adhering system makes application easy and reduces installation time-
- // Closed-cell structure provides excellent condensation control
- // Built-in vapor ratarder eliminates need for additional vapor relarder
- // 25/50 rated for use in air plenums. Up to 1⁻ thickness in AP ArmaFlex 1-1/2⁻ and 2⁻ thickness in AP ArmaFlex F5
- // Thickness up to 2" with R-value up to R-8

www.armacell.us









ArmaFlex

TECHNICAL DATA - AP ArmaFlex® SA AND AP ArmaFlex® FS 5A SHEET AND ROLL INSULATION - SELF ADHERING

Description

Black flexible closed-cell elastomeric thermal insulation in sheet and roll form with a self-adhering backing.

ASTM C 534, Type II — Sheet Grade 1 ASTM C 1534, Type I ASTM D 1056, 2C1 ASTM E 84, UL723	ASTM G21/C1338 CAN/ULC-5102 ① City of New York Approval MEA 107-89M MIL-P-15280J, FORM 5 ②	MIL-C-3133C (MIL STD 670B) Grade SBE 3 @ NFPA 90A, 90B UL 181
Approvals, Certifications, Compliances		

All Armacell facilities in North America are ISO 9001 certified.

AP ArmaFlex SA FS meets the living building challenge requirements. Red list compliant.

Tunical Properties

Specifications	Values			Test Method
	AP ArmaFlex 5A Through 1" (NBR/PVC based)	AP ArmaFlex FS SA 1-1/2" and 2" (EPDM based)	AP ArmaFlex SA 1-1/2" and 2" (NBR/PVC based)	n Bergendersen og Verstande det en skrivet i ser en
Thermal Conductivity: Btu = in/h =	ft ² • °F (W/mK)			
75°F Mean Temperature [24°C] 100°F Mean Temperature (38°C)	0.245 (0.0353) 0.257 (0.037)	0.28 (0.040) 0.289 (0.041)	0.25 (0.036) 0.256 (0.037)	ASTM C 177 or C 518
Water Vapor Permeability: Perm-in. [Kg/is • m • Pa]]	0.05 (0.725 x 10 ⁻¹³)	0.08 {1.16 x 10 ⁻¹³ }	0.05 (0.725 x 10-13)	ASTM E 96, Procedure A
Flame Spread and Smoke Developed Index:	25/50 rated Rated for Return Air Plenum use.	25/50 rated Rated for Return Air Plenum use.	Not rated	ASTM E 84, UL 723 CAN/ULC-S102 ①
Water Absorption, % by Volume:	0.2 %	0.2 %	0.2 %	ASTM C 209 or ASTM C1763
Mold Growth: Fungi Resistance:	Passed	Passed	Passed	UL181 ASTM G21/C1338
Maximum Service Temperature ③	180°F (82°C)	300°F (149°C)	180°F (82°C)	· · · · · · · · · · · · · · · · · · ·
Minimum Service Temperature ④	-30°F (-34°C)	-30°F [-34°C]	-30°F (-34°C)	

O AP ArmaFlex meets CAN/ULC-5102 through 1" thickness.
 O AP ArmaFlex meets CAN/ULC-5102 through 1" thickness.
 O AP ArmaFlex SA and AP ArmaFlex FS and MIL-C-3133C [MIL STD 670B] Grade SBE through 1" thickness.
 O AP ArmaFlex SA and AP ArmaFlex FS As can withstand temperature of 250°F [121°C] when tested according to ASTM C 411. "Test Method for Surface Performance of High-Temperature Insulations". At this temperatures, AP ArmaFlex SA and BP ArmaFlex SA.
 We the temperatures are solution to the set of the

efficiency and resistance to water vapor permeability of ArmaFlex insulation.

TECHNICAL DATA - AP ArmaFlex" SA AND AP ArmaFlex" FS SA SHEET AND ROLL INSULATION - SELF ADHERING

R-Value	R-0.5	R-1.0	R-1.5	R-2.1	R-3,1	R-4.2	R-6	R-B
Thickness:	1/8" [3 mm]	1/4" [6 mm]	3/8" (10 mm)	1/2" (13 mm)	3/4" (19 mm)	1" (25 mm)	1-1/2" (38 mm)	2" [50 mm]
Sound Absorption Coefficients Frequency	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	NRC	SAA
Thickness Nom. 1" (25 mm)	0.01	0.13	0.39	0.69	0.29	0.26	0.40	0.38
Thickness Nom. 1-1/2" (38 mm)	0.07	0.26	0.92	0.31	0.49	0.53	0.50	0.49
Thickness Nom. 2" [50 mm]	0.14	0.62	0.44	0.43	0.51	0.45	0.50	0.51
Sizes Sheet: Width x Length Thickness (nominal)	36" x 48" [.915 r 1/8", 1/4", 3/8",		/2", 2" & 3" (3, 6,	10, 13, 19, 25, 38	& 50 mm)			
Roll: Width Thickness (nominal) x Length	48" wide (1.22 n 1/4" x 140' (6 m				1" x 35' (25 m 1, 1/2" x 25' (nm x 10.7 m) 38 mm x 7.6 m)		

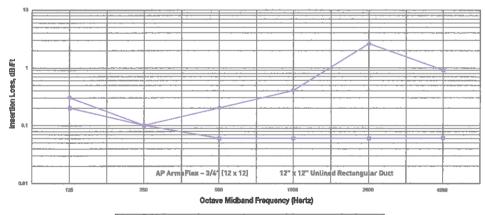
Outdoor Use

Painting with WB Finish or other protective jacketing is required to prevent damage to the insulation in exterior applications and to comply with the insulation protection sections of the International Energy Conservation Code [IECC] and ASHRAE 90.1.

Sound Transmission Class (STC)

	Thickness	STC Class
AP Armaflex	Nom. 1/2" [13 mm]	25
AP Armaflex	Nom, 1" (25 mm)	25

Acoustics: Insertion Loss



AP ArmaFlex - 3/4 inch (12 x 12) - [12 x 12) Unlined Rectangular Duct



GREENGUARD Certified products are certified to GREENGUARD standards for low chemical emissions into indoor air during product usage. For more information, visit ul.com/gg.

Microban antimicrobial product protection is limited to the product itself and is not designed to protect the users of these products from disease causing microorganisms, or as a substitute for normal cleaning and hygiene practices. Microban International, Ltd. makes neither direct nor implied health claims for the products containing Microban® antimicrobial product protection. Data, photomicrographs and information presented are based on standard laboratory tests and are provided for comparative purposes to substantiate antimicrobial activity for non-public health uses. Microban is a registered trademark of Microban International, Ltd. Is a to and to New United with the tables of the University of the second consideration of the testing standards references. The desternance of the testing standards references. The desternance of the second second

Al Annexell, your fruit means on white to so we want to introduce route and make to some to you to under stand what of introduce we call and any source of the Data Protocom Pallay.

C Ammarcelle 2020, Alle Ammañ eo eo a trademarie 11 De Ammarcell Fernage Alle Ammañ ao SA, and All ActualPlace FE SA I Salt Adhareng Share and Part Instalador 1723 F17020 (NA I EN-A CO12

ABOUT ARMACELL

As the inventors of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal, acoustic and mechanical solutions that create sustainable value for its customers. Armacell's products significantly contribute to global energy efficiency making a difference around the world every day. With 3,135 employees and 24 production plants in 16 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for high-tech and lightweight applications and next generation aerogel blanket technology.

For more information, please welt www.ermacell.tjs 800-866-5638





Building Together

DATE: February 17, 2021

TO: Andy Engan; Engan Architects

CC: Nathan Hrdlichka; Brennan Construction

FROM: John van Dyck; Brennan Construction

RE: Marshall Municipal CR 28 Revised; Delete ceiling painting in LL Mechanical Room

Contractor	Item Description	Labor		rial 7	Tota	al
Subcontractors:						
Colorful Concepts	Painting credit	\$ -	\$		\$	(1,668.00)
			Subs Subt	otal:	\$	(1,668.00)
Brennan Companies:						
Brennan Companies	Bond Change @ 1%				\$	(16.68)
			GC Subto	otal:	\$	(16.68)

10% OH&P on subs	\$ (166.80)
10% OH&P on GC	\$ (1.67)
TOTAL:	\$ (1,853.00)

Approved:

- John in



Change Order

Printed: Jan 21, 2021 38922 County Road 1, Sartell, MN 56377 Phone: 320-360-0262

Owner Info	Job Info	Change Order ID
Brennan Construction 124 E Walnut St, STE 240	344 West Main Street Marshall, MN 56258	19-01-136-0002
Mankato, MN 56001 Phone: 5073813525		

Marshall Municipal Building

CO ID	Created / Approved Date	Price
19-01-136-0002	Created: Jan 21, 2021 Pending	-\$1,668.00

Description	
Mechanical Room Ceiling Change Order Deduct for not painting the ceiling in the basement mechanica	al room

Status	Signature	Date
Approved by:		//

A	oproval Comments

Please Note: A signature of Approval OR **Electronic Acceptance** is required before change order is effective. This change order becomes part of the existing contract.

TOTAL AMOUNT OF CHANGE ORDER: -\$1,668.00

https://buildertrend.net/app/ChangeOrder/Print?ids=3565307



Building Together

DATE: February 17, 2021

TO: Andy Engan; Engan Architects

CC: Nathan Hrdlichka; Brennan Construction

FROM: John van Dyck; Brennan Construction

RE: Marshall Municipal CR 29 Revised; Delete Base in LL per RFI 44

Contractor	Item Description	L	Labor		terial	Total	
Subcontractors:							
MCI	Remove Base	\$	-	\$	-	\$	(498.00)
				Subs Su	btotal:	\$	(498.00)
Brennan Companies:							
Brennan Companies	Bond Change @ 1%					\$	(4.98)
				GC Sub	ototal:	\$	(4.98)

10% OH&P on subs	\$ (49.80)
10% OH&P on GC	\$ (0.50)
TOTAL:	\$ (553.00)

Approved:

- John w

MCI CARPET ONE FLOOR AND HOME 224 St Andrews Drive Mankato MN 56001 507-625-3472

Page 1	ACKNOWLEDGMENT	CG100600
Sold To	Ship To	
BRENNAN CONSTRUCTION 124 E WALNUT STREET	MARSHALL MUN	IICIPAL BUILDING
SUITE 240 MANKATO, MN 56001	MARSHALL, MN	56258

Order Date		Tele #1	PO Number	Order Num	nber
01/29/21		507-625-5417		CG1006	00
Inventory	Style/Item	Color/Description	Quantity Units	Price	Extension
COVE BASE 440 COVE BASE ADH	4" COVE BASE WITH TOE COVE BASE ADHESIVE	40 - BLACK COVE BASE ADHESIN	-240.00 SF /E -3.00 EA	1.00 6.00	-240.00 -18.00
LABOR	INSTALL VINYL BASE		-240.00 LF	1.00	-240.00

- 01/29/21			— 3:19PM —
Sales Representative(s):		Material:	-258.00
ANTHONY ZILLER		Service:	-240.00
		Misc. Charges:	0.00
		Sales Tax:	0.00
Payment terms: Terms of sale are Payment in full at time of pu credit card or A \$40.00 fee will be assessed for returned check attorney fees incurred by MCI will be the responsibility of the b	s. Any collection fees or uyer. A monthly service	Misc. Tax:	0.00
charge will added at the rate of 1.5% per month (18% per annur By signing this document, customer acknowledges receipt of th		INVOICE TOTAL:	\$-498.00
understands payment terms.		Less Payment(s):	0.00
Signature	Date	BALANCE DUE:	\$-498.00



Building Together

DATE: March 1, 2021

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- TO: Andy Engan; Engan Architects
- CC: Nathan Hrdlichka; Brennan
- **FROM:** John van Dyck; Brennan

RE: PR 06; Additional Lighting in Stairwells. ASI 7; Flag Pole Lighting

Contractor	Item Description	Labor	Material	Total	
Subcontractors:					
Red River Electric	Electrical changes per PR06			\$	913.00
Red River Electric	Alternate fixture for PR06			\$	(91.00)
Red River Electric	Electrical changes ASI7			\$	(232.00)
			Subs Subtotal:	\$	590.00
Brennan Companies:					
Brennan Companies	Bond Change			\$	6.49
]			
			GC Subtotal:	\$	6.49

Notes:	
Approved:	

V

10% OH&P on subs	\$ 59.00
10% OH&P on GC	\$ 0.65
TOTAL:	\$ 656.00

PROPOSED CHANGE ORDER

CCN # Date: Project Name: Page Number: E12 1/15/2021 MARSHALL MUNICIPAL CENTER 1

Client Address:

Brennan Construction of MN, Inc Contact: John van Dyck 125 E Walnut St Suite 240 Mankato, MN 56001



"A Tradition of Quality"

3345 43rd St S Moorhead, MN 56560 Telephone: 218 236 0502 Fax: 218 233 3483 Contact: Lee Hiller E-mail: leeh@redriverelectric.com

Work Description

As per PR #06:

1) Provide nightlight type H2 lighting fixture at stairwell from lobby to basement. Add to circuit 11/LP10 and surface mount to ceiling of stairwell.

2) Provide type H2 lighting fixture at bottom landing of room 123. Surface mount to ceiling and add to circuit 3/LP10.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only to the price change in the extra work and we reserve the right to claim for impact and consequential costs and for changes in time to the job schedule.

This price is good for acceptance within 10 days from the date of receipt.

Acceptance of the quote will add day(s) to the project schedule.

Itemized Breakdown

Description	Qty	Net Price l	J Total Mat.	Labor U	Total Hrs.
H2	2	0.00 E	E 0.00	0.81 E	1.62
1/2" CONDUIT - EMT	40	57.46	22.98	2.50 C	1.00
1/2" CONN SS STL - EMT	4	78.52	C 3.14	10.00 C	0.40
1/2" COUPLING SS STL - EMT	4	20.70	0.83	0.00 C	0.00
1/2" 1-H STRAP - EMT - STEEL	6	12.43	0.75	6.13 C	0.37
#12 THHN BLACK	88	142.44 N	И 12.53	3.75 M	0.33
#12 THHN SOLID GREEN	44	142.44 M	M 6.27	6.75 M	0.30
WIRE NUT RED 512	6	5.82	0.35	28.00 M	0.17
4x 1 1/2" SQ BOX TKO RACO 189	2	90.37	C 1.81	28.75 C	0.57
4" SQ BLANK COVER	2	40.39	0.81	3.13 C	0.06
GROUNDING SCREW	2	6.23	0.12	2.50 C	0.05
#10x 1 P/H SELF-TAP SCREW	10	9.36	C 0.94	3.75 C	0.38
Totals	210		50.53		5.25

Summary

General Materials LIGHTING FIXTURES

Alternate Fixtures(product Data Attached) - \$140



ORIGINAL

PROPOSED CHANGE ORDER

Date:	1/15/2021
Project Name:	MARSHALL MUNICIPAL CENTER
Page Number:	2

Summary (Cont'd)			
Material Tax	(@ 7.500 %)	\$14.29	20.66
Material Total JOURNEYMAN TRAVEL MILEAGE (Pro rated per week) TRAVEL TIME (Pro ratd per week) ROOM & BOARD (Pro rated per week) PER DIEM	(5.25 Hrs @ \$74.00) (5.25 @ 0.00 @ \$2.79 + 0.000 % + 0.000 % + 0.000 %) (5.25 @ 0.00 @ \$8.50 + 0.000 % + 0.000 % + 0.000 %) (5.25 @ 0.00 @ \$5.00 + 0.000 % + 0.000 % + 0.000 %) (5.25 @ 0.00 @ \$4.00 + 0.000 % + 0.000 % + 0.000 %)	\$204.81	296.19 388.50 14.65 44.63 26.25 21.00
Subtotal Overhead Markup	(@ 10.000 %) (@ 5.000 %)		791.22 79.12 43.52
Subtotal Adjustment #1	(@ -0.094 %)		913.86 -0.86

Final Amount

CONTRACTO	DR CERTIFICATION	0
Name: Date:	LEE HILDE 1/15/2021	
Signature:	I hereby certify that this quotation is complete and accurate	te based on the information provided.

\$913.00

CLIENT ACCEPTANCE

CCN #: E12	
Final Amount:\$913.00	
Name:	
Date:	
Signature:	
Change Order #:	
-	I hereby accept this quotation and authorize the contractor to complete the above described work



Catalog

Number

Notes

FEATURES & SPECIFICATIONS

INTENDED USE — Available in several color temperatures, lumen packages and lengths. Ideal for use in commercial, retail, office, warehouse and display applications. Certain airborne contaminants can diminish integrity of acrylic and/or polycarbonate. <u>Click here for Acrylic-Polycarbonate</u> <u>Compatibility table for suitable uses</u>.

Certain airborne contaminants may adversely affect the functioning of LEDs and other electronic components, depending on various factors such as concentrations of the contaminants, ventilation, and temperature at the end-user location. <u>Click here for a list of substances that may not be suitable for interaction with LEDs and other electronic components</u>.

CONSTRUCTION — Compact-design channel and cover are formed from code compliant, 22 gauge cold-rolled steel.

SENSOR SWITCH JUST ONE TOUCH TECHNOLOGY — Single room control wireless technology available for easy install and commissioning to aid in code compliance. The JOT option enables the fixture with Just One Touch pairing capability. The JOTVTX15 option features a luminaire-embedded occupancy and ambient light sensor allows the luminaire to power off when the space is unoccupied or when enough ambient light is entering the space.

FINISH — High-gloss, baked white enamel (standard).

OPTICS — LEDs provide 80+ color rendering index (CRI) at 3500K, 4000K and 5000K. Diffuse acrylic lens with ultra-sonically welded end caps provides smooth, linear illumination.

ELECTRICAL — Luminaire Surge Protection Level: Designed to withstand up to 2.5kV/0.75kA per ANSI C82.77-5-2015. For applications requiring higher level of protection additional surge protection must be provided.

Driver is standard 0-10V dimming class 2.

INSTALLATION — Fixture may be surface or suspension mounted with appropriate mounting options (see accessories). Easy to install row aligner bracket included for continuous row mounting.

LISTINGS — CSA certified to US and Canadian safety standards and listed suitable for damp locations. Minimum starting temperature of -40°F (-40°C). Maximum ambient operating temperature of 95°F (35°C). See notes for controls temperature restrictions.

DesignLights Consortium[®] (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at <u>www.designlights.org/QPL</u> to confirm which versions are qualified.

WARRANTY — 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



****** Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight[®] or XPoint[™] Wireless control networks marked by a shaded background^{*}

To learn more about A+, visit <u>www.acuitybrands.com/aplus</u>.

*See ordering tree for details

CSS LED Strip Light

	Looking for Contracto configurations? Click h spec sheet or go to ww	nere to visi vw.contrad	t Contractor ctorselect.co	Select™ m	r depending on options selected. C	onsult wit	h your sales re	presentativ	ve.		Exam	ple: CSS L	96 ALO4 MVOLT SWW3 80C
Series		Lengt	h	Lumen O	utput	Voltage	2	Color te	mperature	Color re index	endering	Options	
	<mark>ntractor)</mark> Igle Strip LED	L96	<mark>48"</mark> 96"	4000LM (AL03) 8000LM AL04	4000 Lumens ‡ Switchable lumens, 3000LM / 4000LM / 5000LM 8000 Lumens ‡ Switchable lumens, 6000LM / 8000LM / 10000LM	MVOLT 347	120-277V 347V ‡	35K 40K 50K SWW3	3500K ‡ 4000K ‡ 5000K ‡ (Switchable (white, 35K /) 40K / 50K	80CRI)	80 CRI)	JOT Enable JOT JOTVTX15 Individual I SFR30CSS SFR7CSS Wire Guard WG	Factory installed 360°, large motion, high bay sensor, SFR 30 ‡ Factory installed 360°, small motion, low bay sensor, SFR 7 ‡

NOTE: **‡** indicates option chosen has ordering restrictions. Please reference ordering restrictions chart.

Accessories: Order as	separate catalog number.
HC36 M12	Chain hanger and jack chain, 36" (one pair)
ZACVH	Aircraft cable 10' (one pair)
SQ	5/8" Swivel-stem hanger (specify length in 2" increments up to 48")
rPP20D	nLight® air dimming/switching module
SFR30CSS	Field installed 360°, large motion, high bay sensor, <u>SFR 30</u> ‡
SFR7CSS	Field installed 360°, small motion, low bay sensor, <u>SFR 7</u> ‡
Y J10	Y hanger in multiples of 10 (five pair)
WGCSS	Wire Guard with Mounting hardware (one 4ft)
MNLK JBOXCVR M12	Junction box cover and hardware, white

‡ Option Value Ordering Restrictions		
Option value	Restriction	
35K, 40K, 50K	Not available with ALO lumen packages.	
4000LM, 8000LM	Not available with SWW3.	
JOT Enabled Controls	Not available with ALO3, ALO4, 347V or SWW3. Not intended for continuous row mount applications. Minimum starting temp of $14^{\circ}F(-10^{\circ}C)$. Maximum operating temp of L48 at 95°F (35°C) & L96 at 86°F (30°C).	
SFR Sensors	Not available with 347V. Can only be mounted at the end of continuous row mount applications. On/off function only. Minimum starting temp of 14° F (- 10° C).	
Wire Guard	Does not cover Controls.	

OPERATIONAL DATA

Length	Nominal Lumen Package	Color Temperature	Delivered Lumens	Wattage	Lumens/Watt
	4000 LM		4,298	35.3	121.8
		3500K	3,190	27.7	115.4
	ALO3 (3000 LM)	4000K	3,247	27.7	117.4
		5000K	3,250	27.7	117.5
L48		3500K	4,135	35.8	115.4
L48	ALO3 (4000 LM)	4000K	4,206	35.8	117.3
		5000K	4,268	35.8	119
		3500K	5,058	43.9	115.1
	ALO3 (5000 LM)	4000K	5,150	43.9	117.2
		5000K	5,274	43.9	120.1
	8000 LM	4000K	8,596	72	119.3
	ALO4 (6000 LM)	3500K	6,380	55.3	115.4
		4000K	6,495	55.3	117.4
		5000K	6,501	55.3	117.5
L96	ALO4 (8000 LM)	3500K	8,271	71.7	115.4
L90		4000K	8,413	71.7	117.3
		5000K	8,535	71.7	119
	ALO4 (10000 LM)	3500K	10,115	87.9	115.1
		4000K	10,300	87.9	117.2
		5000K	10,549	87.9	120.1

PROJECTED LUMEN MAINTENANCE

 Lumen Maintenance Factor
 0.91
 0.81
 0.75

 Operating Hours
 40,000
 90,000
 120,000

*Actual performance may vary based on ambient temperature of installed location.

*All values are typical and are at 25C. Actual performance may vary and is dependent on operating environment.

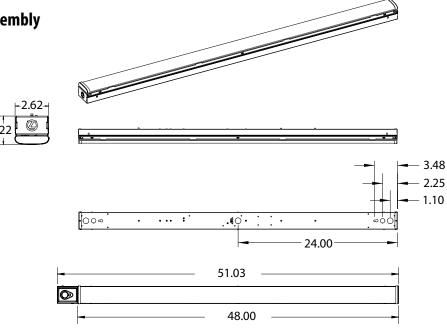
DIMENSIONS

All dimensions are shown in inches unless otherwise noted.

Length	Width	Height	Approximate weight	Fixtures per pallet	Pallet Dimensions
L48	2.62	2.22	5 lbs	98	46 x 57
L96	2.62	2.22	10 lbs	102	46 x 98.5

*Weights will vary slightly with added options.

4FT Assembly



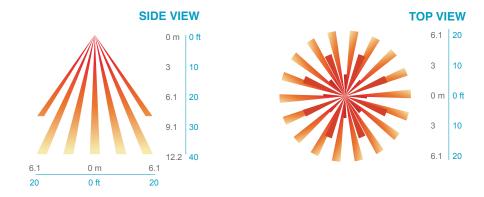
🖊 LITHONIA LIGHTING

LITHONIA-CSS-STRIP-LED

INDIVIDUAL CONTROLS COVERAGE PATTERNS

SFR 30 UNIVERSAL 360° LENS

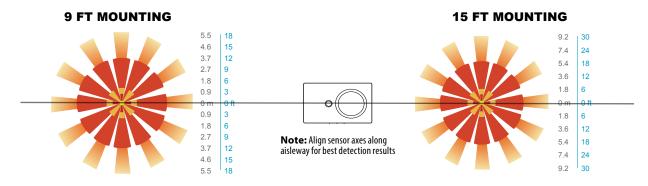
- Provides excellent detection of large motion (e.g. walking) when mounted between 15 to 40 ft (4.57 to 12.19 m)
- 15 to 20 ft (4.57 to 6.10 m) radial coverage overlaps area lit by a typical high bay fixture
- Recommended for fixtures that have a 1:1 spacing to mounting height ratio or less (e.g. fixtures 30' on center or less @ a 30' mounting height).



Page 4 of 5

SFR 7 MINI LOW BAY 360° LENS

- Recommended for walking motion detection from mounting heights between 8 ft (2.44 m) and 20 ft (6.10 m)
- Initial detection of walking motion along sensor axes at distances of 2x the mounting height up to 15 ft (4.57 m) and 1.75x up to 20 ft (6.10 m).
- Provides 12 ft (3.66 m) radial detection of small motion when mounted at 9 ft (2.74 m) •
- Initial detection will occur earlier when walking across sensor's field of view than when walking directly at sensor •



MAXIMUM # OF FIXTURES PER SFR SENSOR

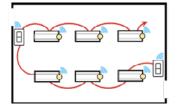
Nomenclature	Maximum # of Fixtures per SFR SENSOR
CSS L48 4000LM MVOLT	20
CSS L48 ALO3 MVOLT	16
CSS L96 8000LM MVOLT	10
CSS L96 ALO4 MVOLT	8

JOT ENABLED WIRELESS CONTROLS

TYPICAL SMALL ROOM APPLICATION (UP TO 250 SQ. FT.)



One Entryway 1x WSXA JOT 2x JOT Enabled Fixture



Two Entryways 2x SPODMRA JOT 6x JOT Enabled Fixture with Occupancy Sensor

Sensor Switch

CMSB JOT

Ceiling Mount Sensor,

Battery-Powered

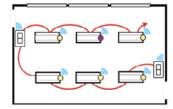
JOT ENABLED PRODUCT PORTFOLIO CONTROLS



Sensor Switch WSXA JOT Wall Switch Sensor with Dimming



Sensor Switch SPODMRA JOT Wall Switch with Dimming



Two Entryways with Daylight Harvesting 2x SPODMRA JOT 1x JOT Enabled Fixture with Photocell and Occupancy Sensor 5x JOT Enabled Fixture with Occupancy Sensor



Sensor Switch VERTEX JOT Embedded Occupancy and Daylight Harvesting Sensor

PHOTOMETRICS

Please see <u>www.lithonia.com</u>.

🖊 LITHONIA LIGHTING

Patent Pending

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PROPOSED CHANGE ORDER

CCN # Date: Project Name: Page Number:

E15 2/10/2021 MARSHALL MUNICIPAL CENTER 1

Client Address:

Brennan Construction of MN, Inc Contact: John van Dyck 125 E Walnut St Suite 240 Mankato, MN 56001



"A Tradition of Quality"

3345 43rd St S Moorhead, MN 56560 Telephone: 218 236 0502 Fax: 218 233 3483 Contact: Lee Hiller E-mail: leeh@redriverelectric.com

Work Description

Sheet E202

1) Delete (1) Type J fixture. Provide credit for rough-in conduit and wire. Turn fixture over to Owner.

We reserve the right to correct this quote for errors and omissions.

This quote covers direct costs only to the price change in the extra work and we reserve the right to claim for impact and consequential costs and for changes in time to the job schedule.

This price is good for acceptance within <u>10</u> days from the date of receipt.

Acceptance of the quote will add <u>day(s)</u> to the project schedule.

Itemized Breakdown

Description	Qty	Net Price	Total Mat.	Labor U	Total Hrs.
J	-1	0.00 E	-0.00	1.25 E	-1.25
#12/2C CABLE MC - STL ARMOR	-12	524.81 N	1 -6.30	21.75 M	-0.26
3/8" CONN MC SNAP-IN	-2	111.62 C	-2.23	7.00 C	-0.14
WIRE NUT RED 512	-3	25.54 C	-0.77	28.00 M	-0.08
4x 1 1/2" SQ BOX TKO BRKT RACO 196	-1	171.00 C	-1.71	28.75 C	-0.29
4" SQ RND PLSTR RING 3/4" RISE	-1	107.66 C	-1.08	3.13 C	-0.03
GROUNDING SCREW	-1	6.23 C	-0.06	2.50 C	-0.03
FIXTURE SLIP FIT ASSEMBLY	-1	0.00 E	-0.00	0.25 E	-0.25
Totals	-22		-12.15	7	-2.33

Summary

General Materials Material Tax	(@ 7.500 %)	-12.15 -0.91
Material Total JOURNEYMAN TRAVEL MILEAGE (Pro rated per week) TRAVEL TIME (Pro ratd per week) ROOM & BOARD (Pro rated per week) PER DIEM	(-2.33 Hrs @ \$74.00) (-2.33 @ 0.00 @ \$2.79 + 0.000 % + 0.000 % + 0.000 %) (-2.33 @ 0.00 @ \$8.50 + 0.000 % + 0.000 % + 0.000 %) (-2.33 @ 0.00 @ \$5.00 + 0.000 % + 0.000 % + 0.000 %) (-2.33 @ 0.00 @ \$4.00 + 0.000 % + 0.000 % + 0.000 %)	-13.06 -172.42 -6.50 -19.81 -11.65 -9.32

Subtotal

ORIGINAL

-232.76

PROPOSED CHANGE ORDER

Date:	2/10/2021
Project Name:	MARSHALL MUNICIPAL CENTER
Page Number:	2

Summary (Cont'd) Adjustment #1

(@ -0.327 %)

Final Amount

CONTRACTO	OR CERTIFIC	ATION
Name: Date: Signature:		is quotation is complete and accurate based on the information provided.
CLIENT ACC CCN #: E15 Final Amou Name: Date: Signature: Change Or	5 unt:\$-232.00 der #:	I hereby accept this quotation and authorize the contractor to complete the above described work.

0.76

\$-232.00