TOWN OF WAYLAND

WAYLAND CoA COMMUNITY CENTER
8 ANDREW AVENUE, WAYLAND, MA 01778
DAI PROJECT #21-125-2125.04

50% CD SET

OWNER:
TOWN OF WAYLAND
41 COCHITUATE RD.
WAYLAND, MA 01778

STRUCTURAL ENGINEER:
DIGIORGIO ASSOCIATES INC.
529 MAIN STREET, SUITE 3303
BOSTON, MA 02129
T: (617) 723-7100

ARCHITECT:
DIGIORGIO ASSOCIATES INC.
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MEP ENGINEER:
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CIVIL ENGINEER:
MERIDIAN ASSOCIATES, INC
500 CUMMINGS CENTER SUITE 5950
BEVERLY, MA 01915
T:(978) 299-0447

INTERIORS:

T:

DRAWING LIST

NUMBER	SHEET NAME	REVISION	DATE
TITLE SHEET			
T-100	TITLE SHEET	B	10/12/2022
ARCHITECTURAL			
A-200	OVERALL GROUND FLOOR AND MEZZENINE FLOOR PLAN	B	10/12/2022
A-201	ENLARGED FLOOR PLAN GROUND FLOOR REFLECTED CEILING PLAN	B	10/12/2022
A-202	ENLARGED FLOOR PLAN	B	10/12/2022
A-210	PARTITIONS TYPES AND ENLARGED PLAN DETAILS	B	10/12/2022
A-300	ENLARGE GROUND FLOOR REFLECTED CEILING	B	10/12/2022
A-301	ENLARGED GROUND FLOOR REFLECTED CEILING PLAN	B	10/12/2022
A-302	REFLECTED CEILING PLAN DETAILS	B	10/12/2022
A-310	OVERALL ROOF PLAN	B	10/12/2022
A-400	EXTERIOR ELEVATIONS	B	10/12/2022
A-500	BUILDING SECTIONS	B	10/12/2022
A-501	BUILDING SECTIONS	B	10/12/2022
A-502	BUILDING SECTIONS	B	10/12/2022
A-600	INTERIOR ELEVATIONS	B	10/12/2022
A-601	TOILET ROOM PLANS AND ELEVATIONS	B	10/12/2022
A-610	CASEWORK DETAILS	B	10/12/2022
A-611	CASEWORK DETAILS	B	10/12/2022
A-700	DOOR AND HARDWARE SCHEDULE AND DETAILS	B	10/12/2022
A-801	OVERALL GROUND FINISH PLAN	B	10/12/2022
STRUCTURAL			
S-100	OVERALL FOUNDATION PLAN	B	10/12/2022
S-101	ROOF FRAMING PLAN	B	10/12/2022
S-200	FOUNDATION SECTIONS	B	10/12/2022
S-201	FRAMING SECTIONS	B	10/12/2022
FIRE PROTECTION			
FP-001	FIRE PROTECTION NOTES, SYMBOLS, & NOTES	B	10/12/2022
FP-201	FIRE PROTECTION CONSTRUCTION PLAN	B	10/12/2022
PLUMBING			
P-001	PLUMBING NOTES, SYMBOLS, & LEGEND	B	10/12/2022
P-002	PLUMBING SCHEDULES	B	10/12/2022
P-201	PLUMBING GROUND FLOOR CONSTRUCTION PLAN	B	10/12/2022
MECHANICAL			
M-001	MECHANICAL NOTES, SYMBOLS, AND ABBREVIATIONS	B	10/12/2022
M-101	MECHANICAL FIRST FLOOR AND MEZZENINE PLAN	B	10/12/2022
M-601	MECHANICAL SCHEDULES	B	10/12/2022
M-801	MECHANICAL DETAILS	B	10/12/2022
ELECTRICAL			
E-001	ELECTRICAL LEGEND	B	10/12/2022
ED-100	ELECTRICAL DEMOLITION - FIRST FLOOR	B	10/12/2022
ED-101	ELECTRICAL DETAILS SHEET 2 OF 2	B	10/12/2022
E-150	ELETRICAL FIRST FLOOR PLAN	B	10/12/2022
E-201	ELECTRICAL FIRST FLOOR LIGHTING PLAN-LEFT	B	10/12/2022
E-202	ELECTRICAL FIRST FLOOR LIGHTING PLAN-RIGHT	B	10/12/2022
E-210	ELECTRICAL MEZZENINE LIGHTING PLAN	B	10/12/2022
E-301	ELECTRICAL FIRST FLOOR POWER PLAN-RIGHT	B	10/12/2022
E-302	ELECTRICAL FIRST FLOOR LIGHTING PLAN	B	10/12/2022
E-303	ELECTRICAL MEZZENINE POWER PLAN	B	10/12/2022
E-350	ELECTRICAL PANTRY PART PLAN	B	10/12/2022
E-400	ELECTRICAL RISER	B	10/12/2022
E-500	ELECTRICAL SCHEDULES	B	10/12/2022
E-510	ELECTRICAL MECHANICAL SCHEDULE	B	10/12/2022
E-600	ELECTRICAL DETAILS SHEET 1 OF 2	B	10/12/2022
E-610	ELECTRICAL DETAILS SHEET 2 OF 2	B	10/12/2022
FIRE ALARM			
FA-000	FIRE ALARM LEYEND AND NOTES	B	10/12/2022
FA-100	FIRE ALARM RISER DIAGRAM & DETAILS	B	10/12/2022

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PORTLAND
510 WASHINGTON AVE.
PORTLAND, ME 04103
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FAX. 207.582.8320

CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
B	10/12/2022	50% CD SET

KEY PLAN:

N TRUE

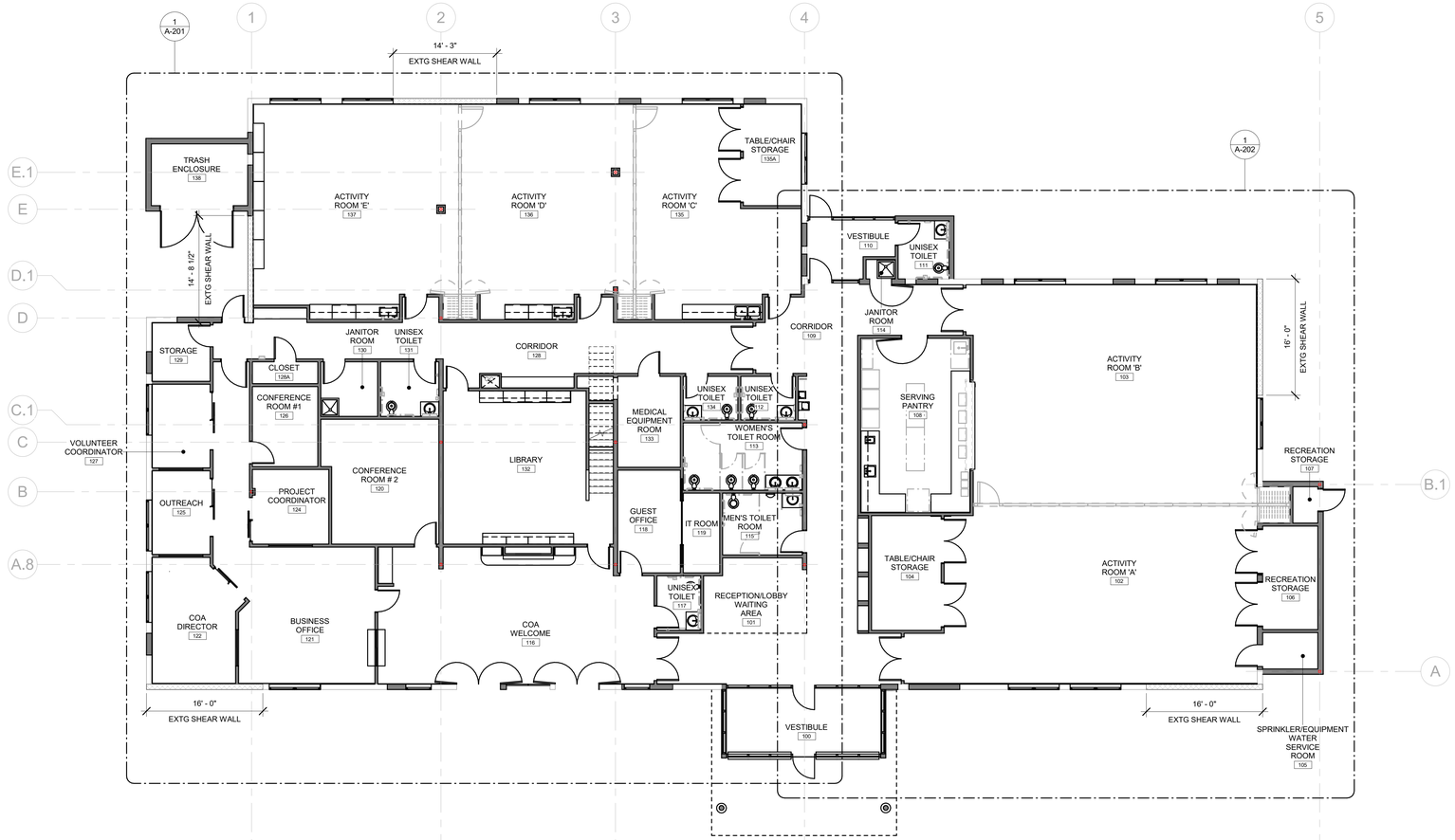
DRAWING TITLE:
TITLE SHEET

DRAWN BY: MK
CHECKED BY: JZ
SCALE:
PROJECT NO.: 21-125-2125.04
SEAL:

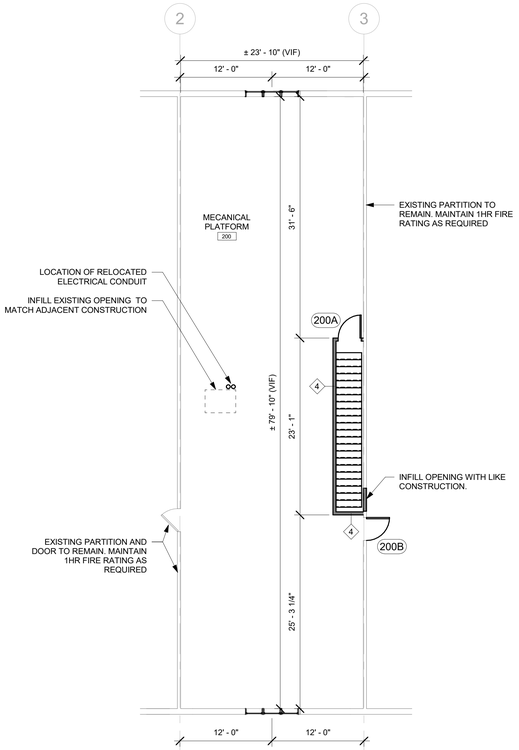
DRAWING NO.:
T-100

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/Wayland On 08-24-22.rvt

DATE & TIME PRINTED: 10/18/2022 2:50:51 PM



1 OVERALL GROUND FLOOR PLAN
1/8" = 1'-0"



2 MEZZENINE FLOOR PLAN
1/8" = 1'-0"

GENERAL NOTES

1. WALLS CALLED OUT AS EXISTING MAY BE DEMOLISHED IN PART FOR NEW CONSTRUCTION REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE TO RECONSTRUCT THESE WALL AS PART OF THE PROJECT.
2. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN CONSTRUCTION DOCUMENTS AND FIELD CONDITIONS.
3. CONTRACTOR TO PROVIDE IN WALL BLOCKING FOR ALL MOUNTED FURNITURE AND EQUIPMENT. CONTRACTOR TO DETERMINE LOCATIONS WHERE IN WALL BLOCKING OR RECESSED EQUIPMENT IS NOT POSSIBLE DUE TO EXISTING WALL CONSTRUCTION. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
4. CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF UTILITIES AND PLUMBING, MECHANICAL AND ELECTRICAL SYSTEMS. THE EXISTENCE AND LOCATIONS INDICATED IN THE CONSTRUCTION DOCUMENTS ARE NOT GUARANTEED.

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
A	09/19/2022	100% DD SET
B	10/12/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
OVERALL GROUND FLOOR AND MEZZENINE FLOOR PLAN

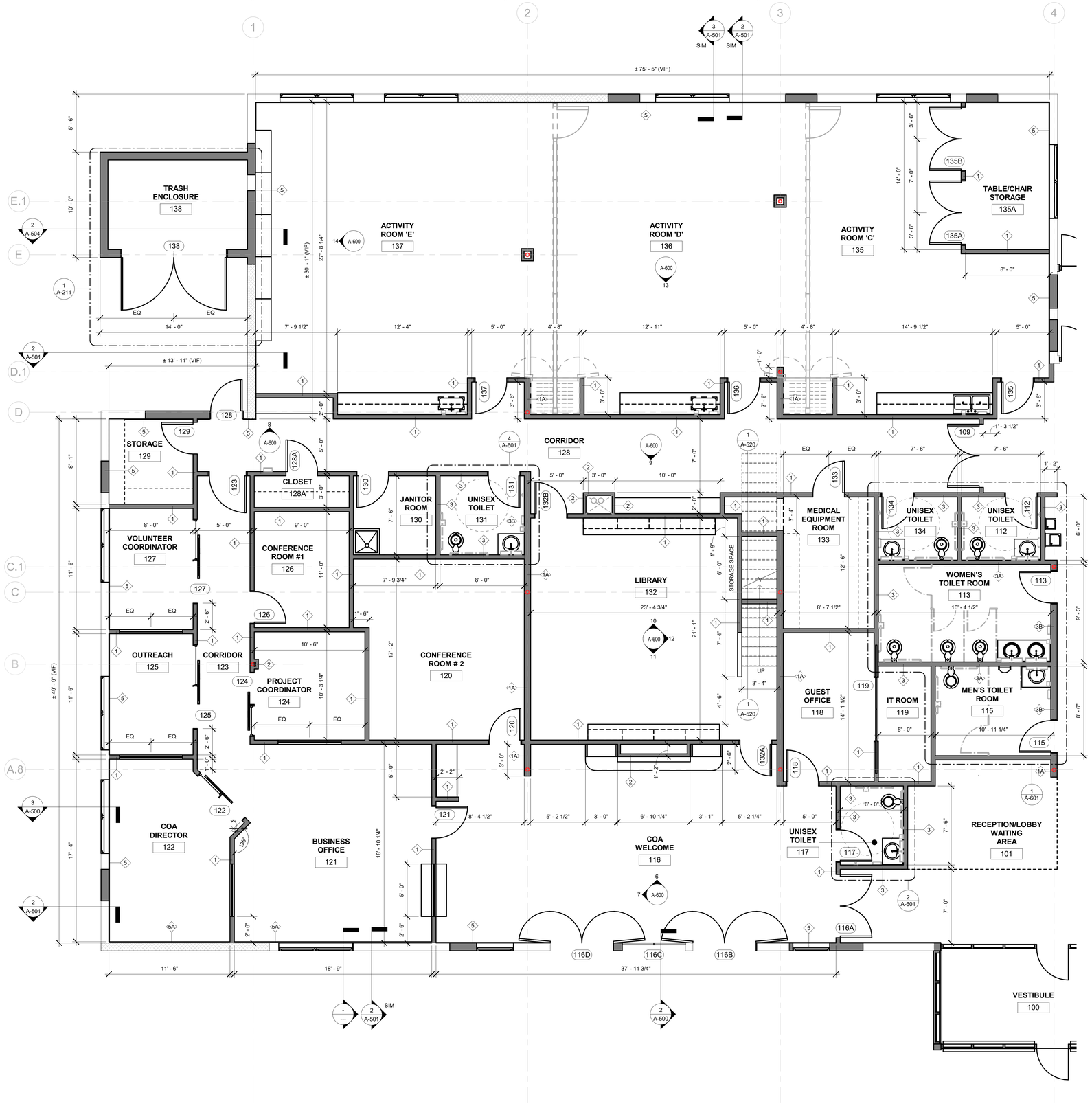
DRAWN BY: MK
CHECKED BY: JZ
SCALE: 1/8" = 1'-0"
PROJECT NO.: 21-125-2125.04

SEAL:

DRAWING NO.:
A-200

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/Wayland On 08-24-22.rvt

DATE & TIME PRINTED: 10/12/2022 5:58:33 PM



1 ENLARGED GROUND FLOOR PLAN (1)
1/4" = 1'-0"

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
A	09/19/2022	100% DD SET
B	10/12/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
ENLARGED FLOOR PLAN

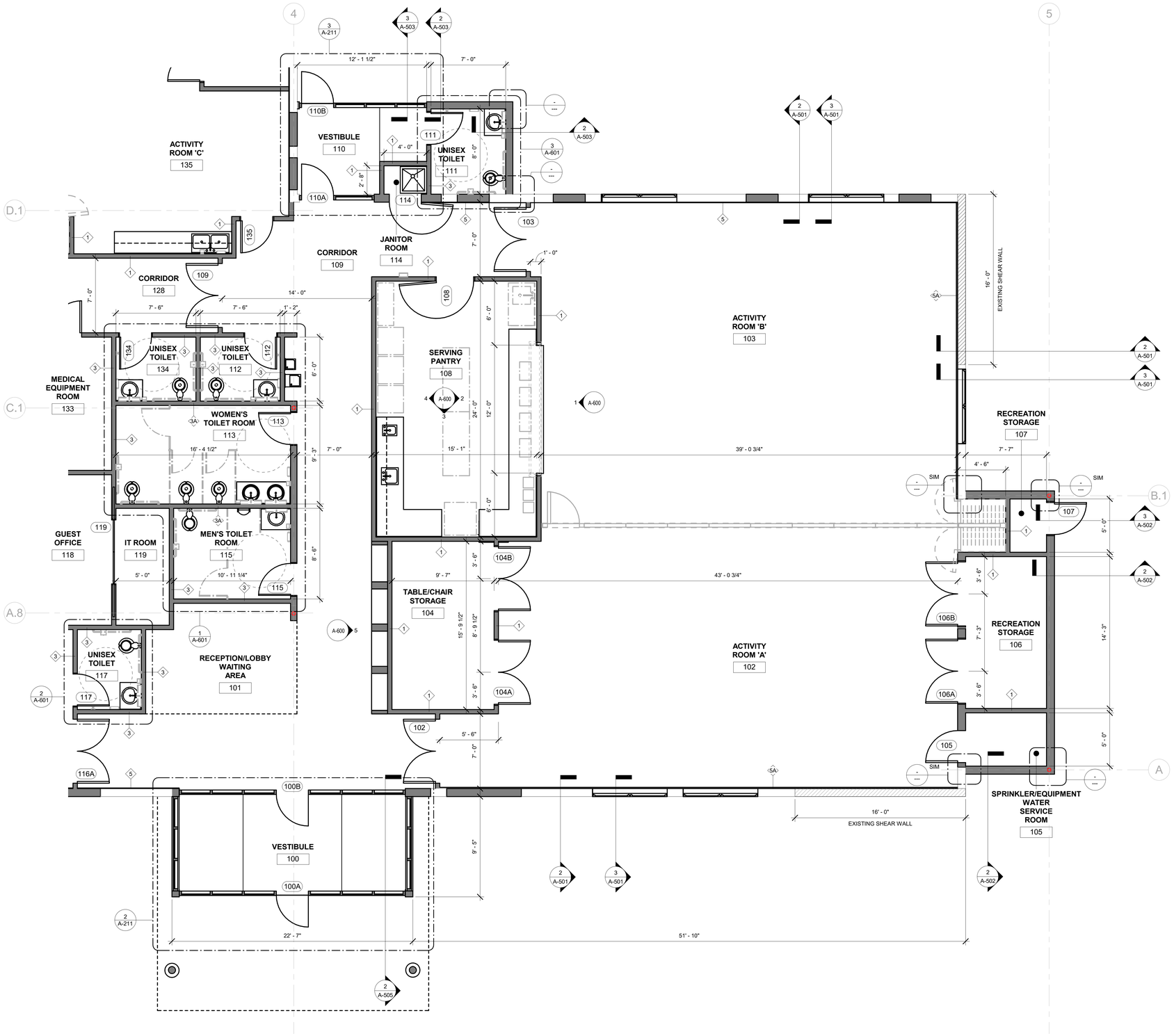
DRAWN BY: MK
CHECKED BY: JZ
SCALE: 1/4" = 1'-0"
PROJECT NO.: 21-125-2125.04

SEAL:

DRAWING NO.:
A-201

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/Wayland On 08-24-22.rvt

DATE & TIME PRINTED: 10/12/2022 5:58:35 PM



1 ENLARGED GROUND FLOOR PLAN (2)
1/4" = 1'-0"

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
A	09/19/2022	100% DD SET
B	10/12/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
ENLARGED FLOOR PLAN

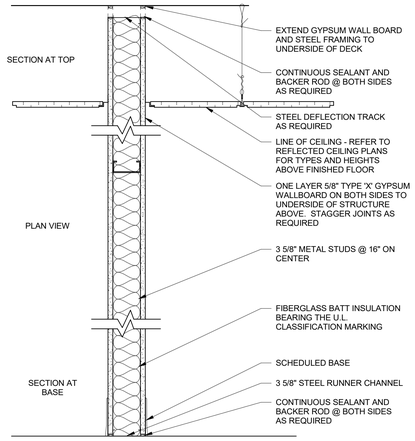
DRAWN BY: MK
CHECKED BY: JZ
SCALE: 1/4" = 1'-0"
PROJECT NO.: 21-125-2125.04

SEAL:

DRAWING NO.:
A-202

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/Wayland On 08-24-22.rvt

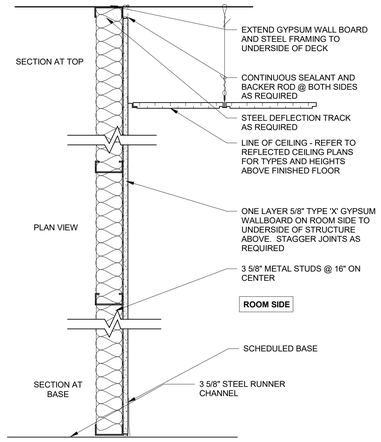
DATE & TIME PRINTED: 10/12/2022 5:58:37 PM



* ALL PENETRATIONS TO BE SEALED

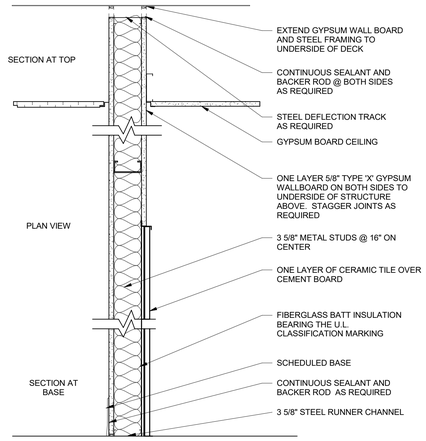
1 NON-RATED PARTITION
3 5/8" STUDS

1A NON-RATED PARTITION
6" STUDS



* ALL PENETRATIONS TO BE SEALED

2 SINGLE SIDED PARTITION
3 5/8" STUDS

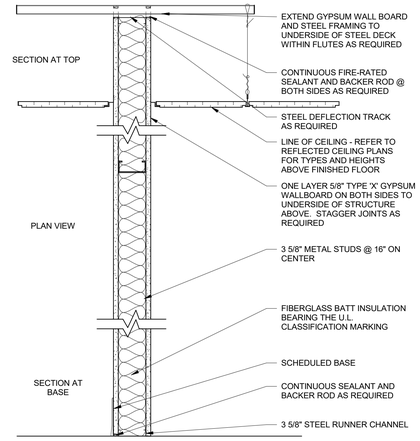


* ALL PENETRATIONS TO BE SEALED

3 TOILET ROOM PARTITION
3 5/8" STUDS WITH CEMENT BOARD

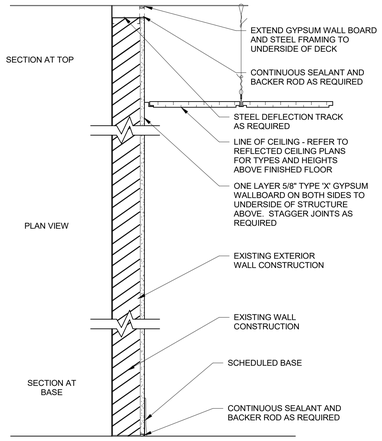
3A TOILET ROOM PARTITION
3 5/8" STUDS WITH CEMENT BOARD BOTH SIDES

3B TOILET ROOM PARTITION
6" STUDS WITH CEMENT BOARD



* ALL PENETRATIONS TO BE SEALED

4 1 HOUR RATED PARTITION
3 5/8" STUDS



* ALL PENETRATIONS TO BE SEALED

5 GYPSUM BOARD OVER EXISTING

5A PLYWOOD AND GYPSUM BOARD OVER EXISTING

1 PARTITION DETAILS
1 1/2" = 1'-0"

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
B	10/12/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
PARTITION TYPES AND ENLARGED PLAN DETAILS

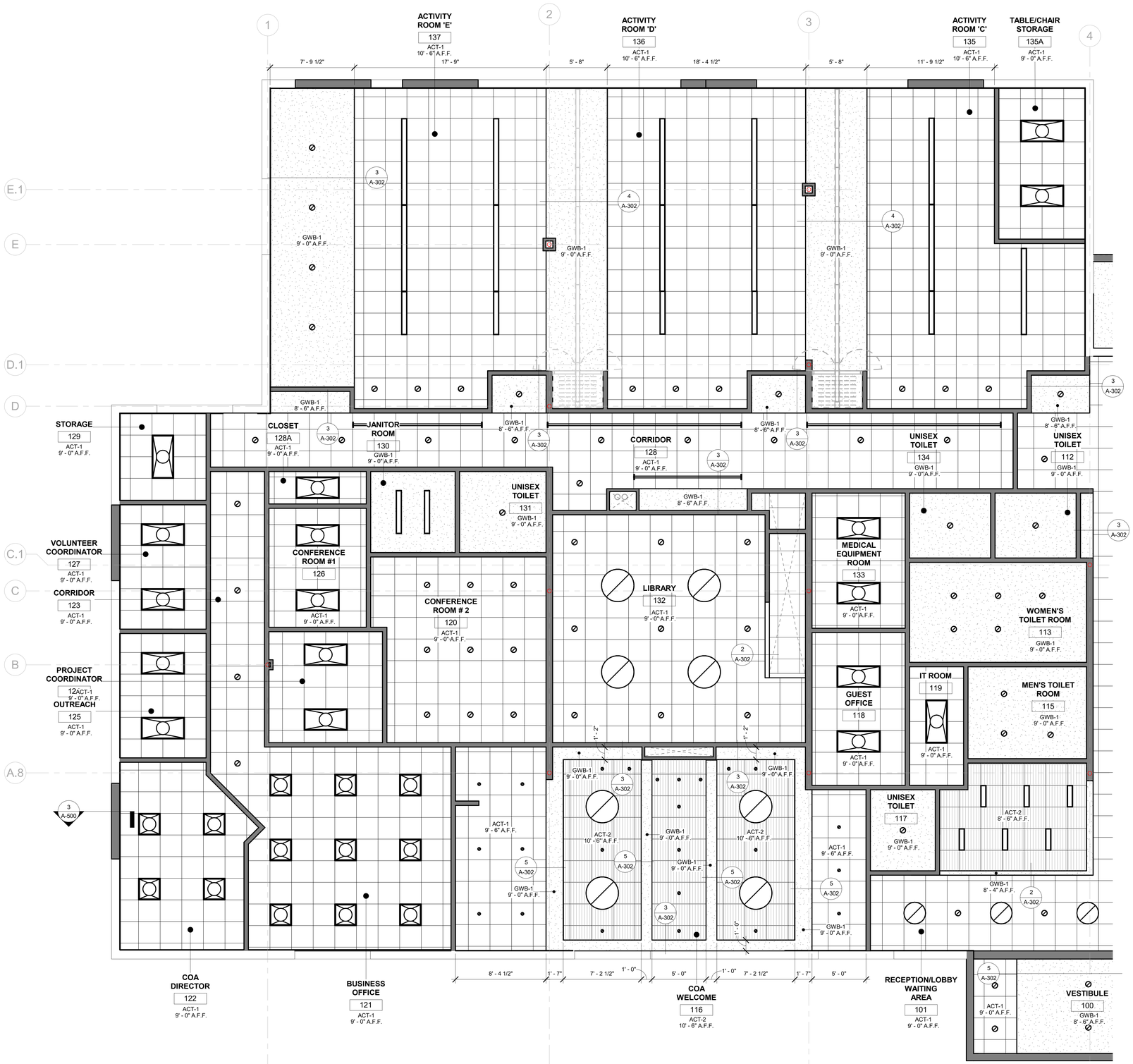
DRAWN BY: Author
CHECKED BY: Checker
SCALE: 1 1/2" = 1'-0"
PROJECT NO.: 21-125-2125.04

SEAL:

DRAWING NO.:
A-210

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/Wayland On 08-24-22.rvt

DATE & TIME PRINTED: 10/12/2022 5:58:37 PM



1 ENLARGED GROUND FLOOR RCP (1)
1/4" = 1'-0"

REFLECTED CEILING PLAN LEGEND

2x2 ACOUSTICAL CEILING TILE (SEE FINISH SCHEDULE)	GYPSUM WALL BOARD CEILING
2x2 LIGHT FIXTURE	GYPSUM WALL BOARD SOFFIT AND HEIGHT A.F.F.
SPRINKLER HEAD (SEE FIRE PROTECTION SHEETS)	HVAC DIFFUSERS (SEE MECHANICAL DWGS)

GENERAL NOTES

1. ALL ACT CEILINGS ARE TO BE AT 8'-6" AFF UNLESS OTHERWISE NOTED.

2. COORDINATE WITH ENGINEERING DRAWINGS. NOT ALL REQUIRED ACCESS PANELS, AIR DEVICES, LIGHT FIXTURES, FIRE SPRINKLERS, ETC. MAY BE SHOWN. FINAL QUANTITIES AND PLACEMENT APPROVED IN CONSTRUCTION SUBMITTALS / SHOP DRAWINGS.

3. REFER TO ENGINEERING DRAWINGS FOR ELECTRICAL, PLUMBING, FIRE PROTECTION AND HVAC SYSTEM LAYOUTS AND QUANTITIES OF ITEMS. THE REFLECTED CEILING PLAN GOVERNS IN REGARD TO THE LOCATION OF SUCH ITEMS.

4. ENGINEERING ITEMS REQUIRED THAT ARE NOT SHOWN ON THE REFLECTED CEILING PLAN SHALL BE LOCATED AS DESCRIBED HEREIN OR AS DIRECTED BY THE ARCHITECT.

5. IT IS THE INTENT THAT ENGINEERING SYSTEM ITEMS TYPICALLY BE PLACED CENTER OF TILE, IN LINE, AND / OR SYMMETRICAL AS APPLICABLE UNLESS SHOWN OTHERWISE.

6. REFER TO INTERIOR FINISH SCHEDULE FOR REFLECTED PLAN CEILING TYPES AND MANUFACTURERS.

REFLECTED CEILING PLAN CODED NOTES

1 --

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
A	09/19/2022	100% DD SET
B	10/12/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
ENLARGED GROUND FLOOR REFLECTED CEILING PLAN

DRAWN BY: Author
CHECKED BY: Checker
SCALE: 1/4" = 1'-0"
PROJECT NO.: 21-125-2125.04

SEAL:

DRAWING NO.:
A-300

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/Wayland On 08-24-22.rvt

DATE & TIME PRINTED: 10/12/2022 5:58:39 PM

1 ENLARGED GROUND FLOOR RCP (2)
1/4" = 1'-0"

REFLECTED CEILING PLAN LEGEND

2x2 ACOUSTICAL CEILING TILE (SEE FINISH SCHEDULE)	GYPSUM WALL BOARD CEILING
2x2 LIGHT FIXTURE	GYPSUM WALL BOARD SOFFIT AND HEIGHT A.F.F.
SPRINKLER HEAD (SEE FIRE PROTECTION SHEETS)	HVAC DIFFUSERS (SEE MECHANICAL DWGS)

GENERAL NOTES

1. ALL ACT CEILINGS ARE TO BE AT 8'-6" AFF UNLESS OTHERWISE NOTED.

2. COORDINATE WITH ENGINEERING DRAWINGS. NOT ALL REQUIRED ACCESS PANELS, AIR DEVICES, LIGHT FIXTURES, FIRE SPRINKLERS, ETC. MAY BE SHOWN. FINAL QUANTITIES AND PLACEMENT APPROVED IN CONSTRUCTION SUBMITTALS / SHOP DRAWINGS.

3. REFER TO ENGINEERING DRAWINGS FOR ELECTRICAL, PLUMBING, FIRE PROTECTION AND HVAC SYSTEM LAYOUTS AND QUANTITIES OF ITEMS. THE REFLECTED CEILING PLAN GOVERNS IN REGARD TO THE LOCATION OF SUCH ITEMS.

4. ENGINEERING ITEMS REQUIRED THAT ARE NOT SHOWN ON THE REFLECTED CEILING PLAN SHALL BE LOCATED AS DESCRIBED HEREIN OR AS DIRECTED BY THE ARCHITECT.

5. IT IS THE INTENT THAT ENGINEERING SYSTEM ITEMS TYPICALLY BE PLACED CENTER OF TILE, IN LINE, AND / OR SYMMETRICAL AS APPLICABLE UNLESS SHOWN OTHERWISE.

6. REFER TO INTERIOR FINISH SCHEDULE FOR REFLECTED PLAN CEILING TYPES AND MANUFACTURERS.

REFLECTED CEILING PLAN CODED NOTES

1 --

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
A	09/19/2022	100% DD SET
B	10/12/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
ENLARGED GROUND FLOOR REFLECTED CEILING PLAN

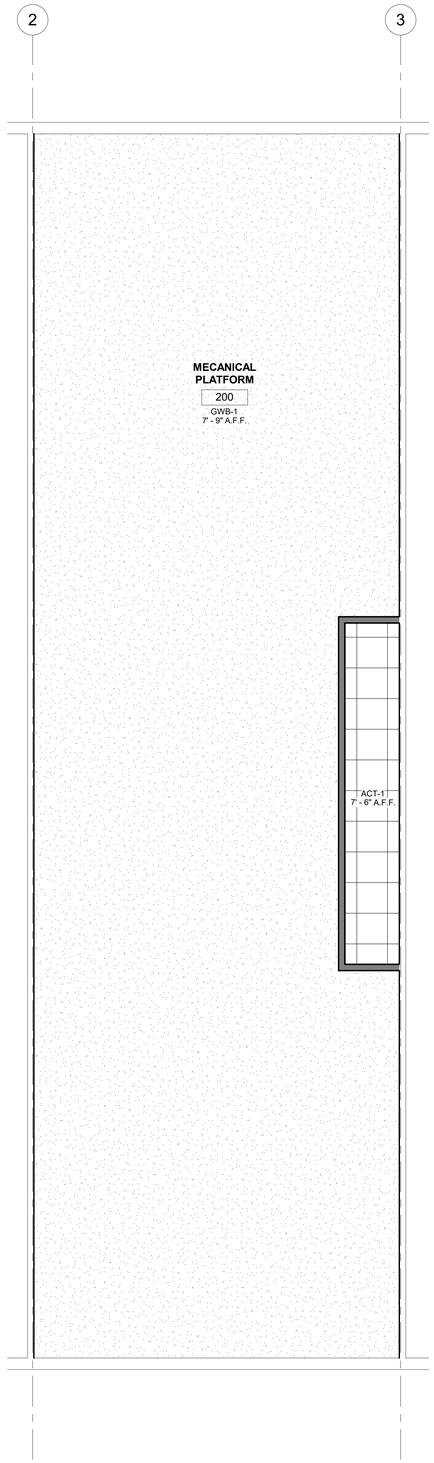
DRAWN BY: Author
CHECKED BY: Checker
SCALE: 1/4" = 1'-0"
PROJECT NO.: 21-125-2125.04

SEAL:

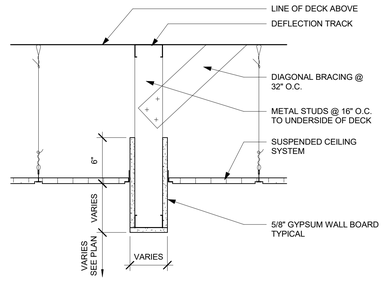
DRAWING NO.:
A-301

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/Wayland On 08-24-22.rvt

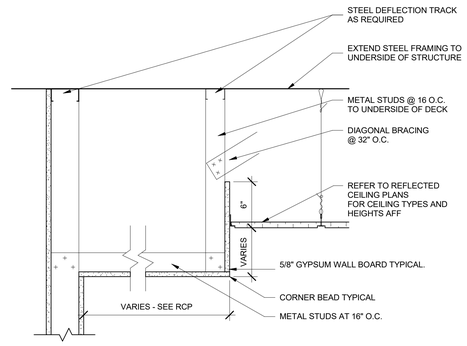
DATE & TIME PRINTED: 10/12/2022 5:58:40 PM



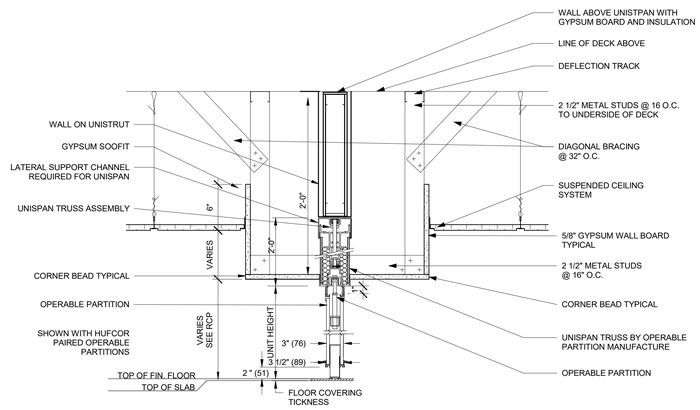
1 OVERALL MEZZANINE RCP
1/4" = 1'-0"



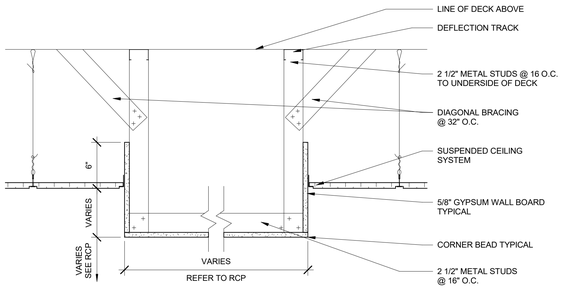
2 DROP SOFFIT DETAIL
1 1/2" = 1'-0"



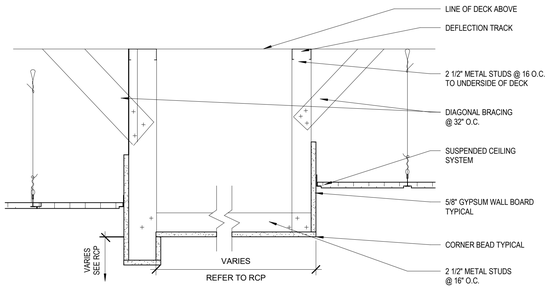
3 GYPSUM BOARD SOFFIT DETAIL
1 1/2" = 1'-0"



4 OPERABLE PARTITION SOFFIT DETAIL
1 1/2" = 1'-0"



5 WIDE DROP SOFFIT DETAIL
1 1/2" = 1'-0"



6 DROP w/ GYP BOARD SOFFIT DETAIL
1 1/2" = 1'-0"

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570 WASHINGTON AVE.
PORTLAND, ME 04103
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FAX. 207.582.8320

CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
B	10/12/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
REFLECTED CEILING PLAN DETAILS

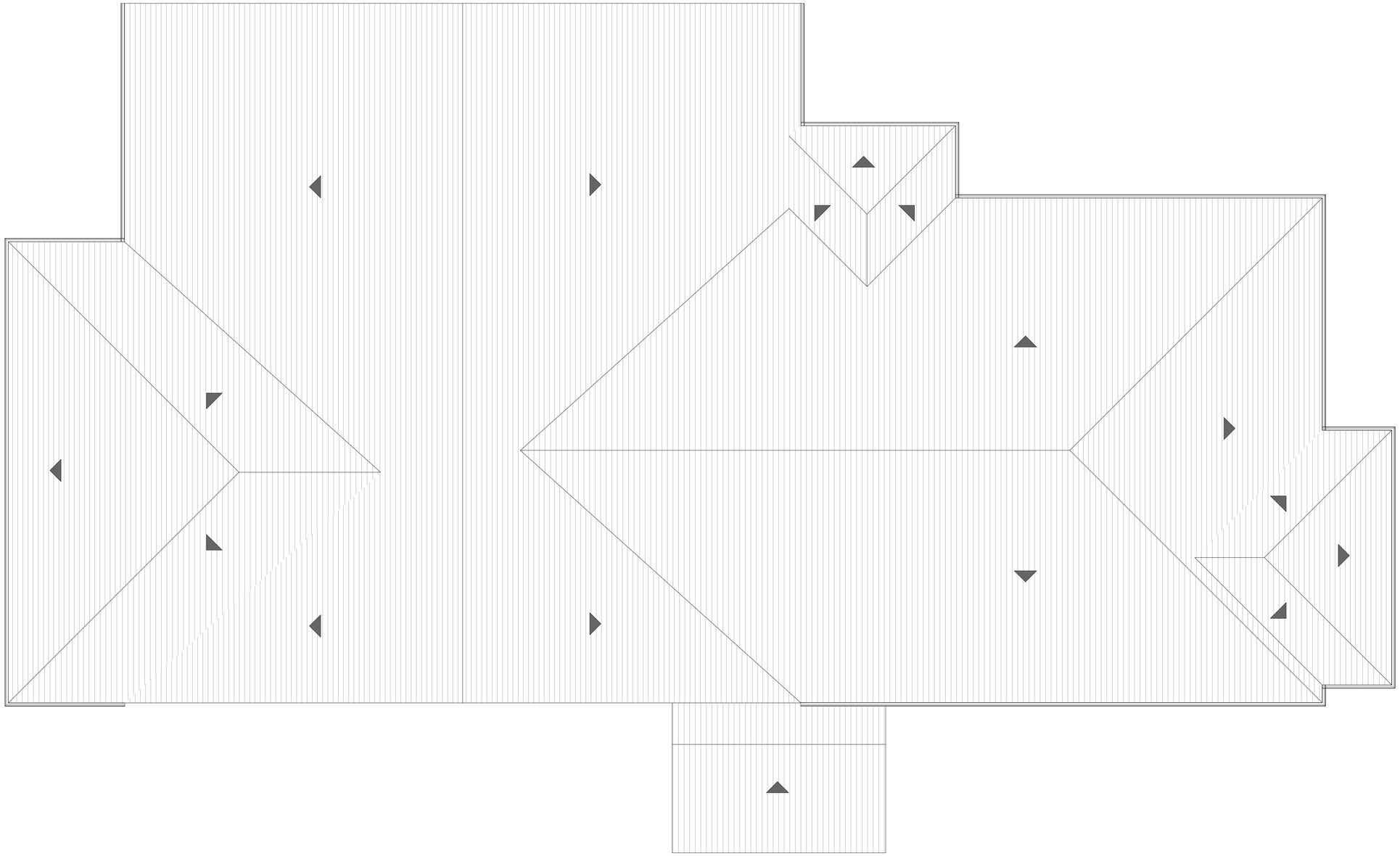
DRAWN BY: Author
CHECKED BY: Checker
SCALE: As indicated
PROJECT NO.: 21-125-2125.04

SEAL:

DRAWING NO.:
A-302

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/Wayland On 08-24-22.rvt

DATE & TIME PRINTED: 10/12/2022 5:58:41 PM



1 OVERALL ROOF PLAN
3/16" = 1'-0"

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
B	10/12/2022	50% CD SET

KEY PLAN:

N TRUE

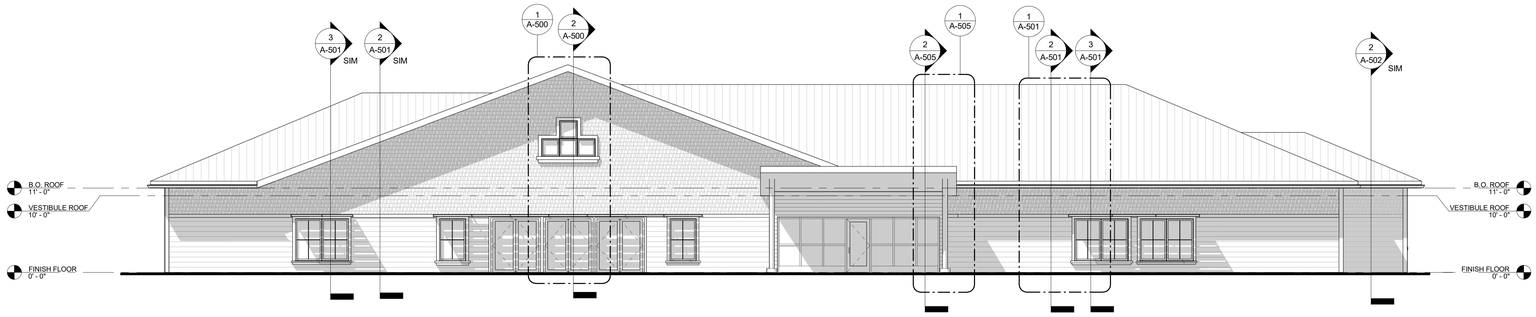
DRAWING TITLE:
OVERALL ROOF PLAN

DRAWN BY: Author	SEAL:
CHECKED BY: Checker	
SCALE: 3/16" = 1'-0"	
PROJECT NO.: 21-125-2125.04	

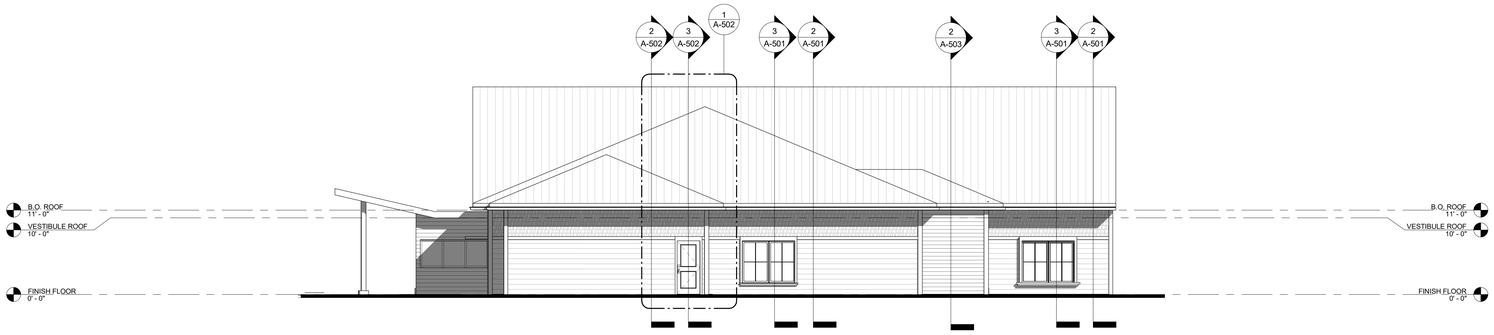
DRAWING NO.:
A-310

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/Wayland On 08-24-22.rvt

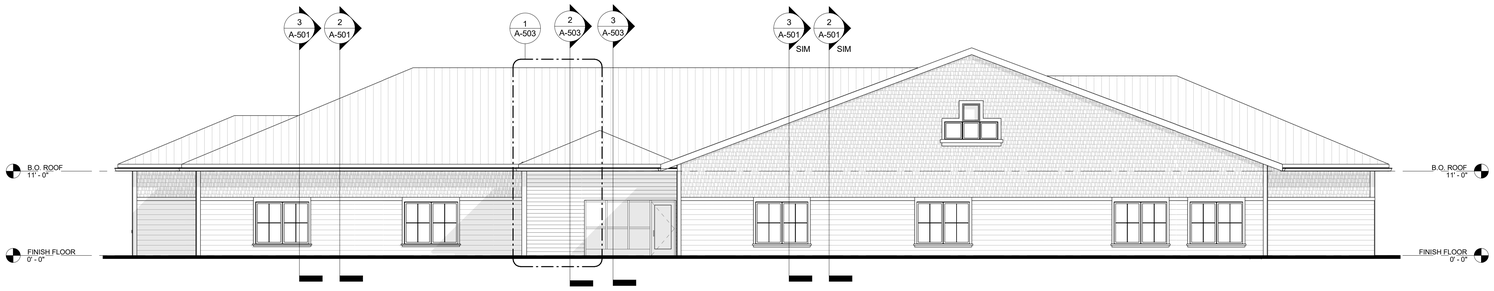
DATE & TIME PRINTED: 10/12/2022 5:58:42 PM



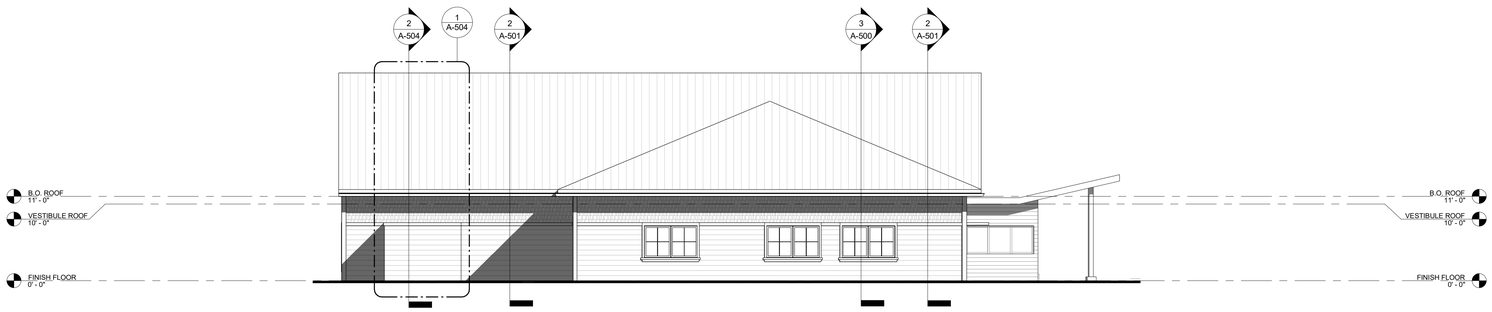
1 SOUTH BUILDING ELEVATION
1/8" = 1'-0"



2 EAST BUILDING ELEVATION
1/8" = 1'-0"



3 NORTH BUILDING ELEVATION
1/8" = 1'-0"



4 WEST BUILDING ELEVATION
1/8" = 1'-0"

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
A	09/19/2022	100% DD SET
B	10/12/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
EXTERIOR ELEVATIONS

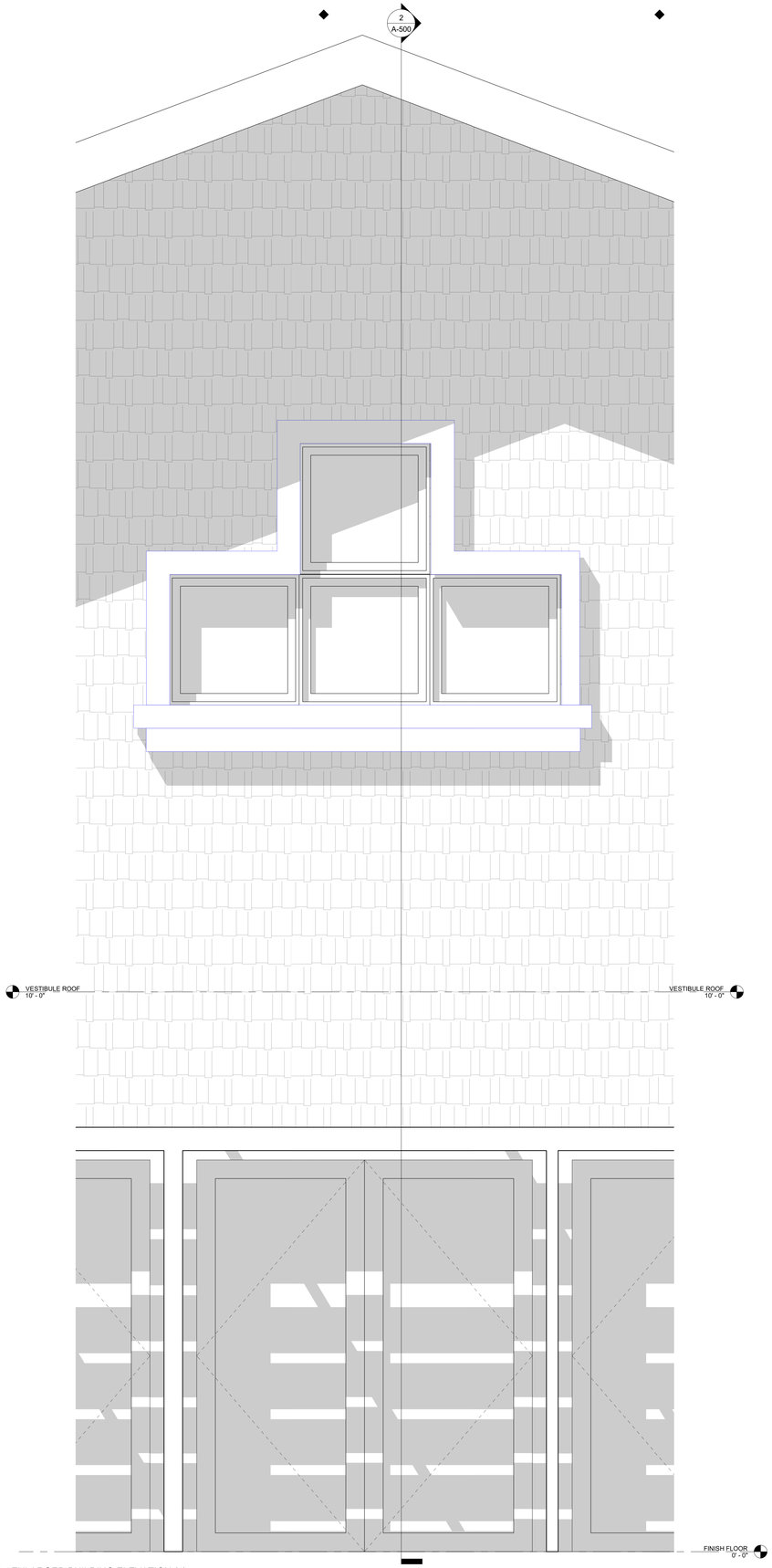
DRAWN BY: Author
CHECKED BY: Checker
SCALE: 1/8" = 1'-0"
PROJECT NO.: 21-125-2125.04

SEAL:

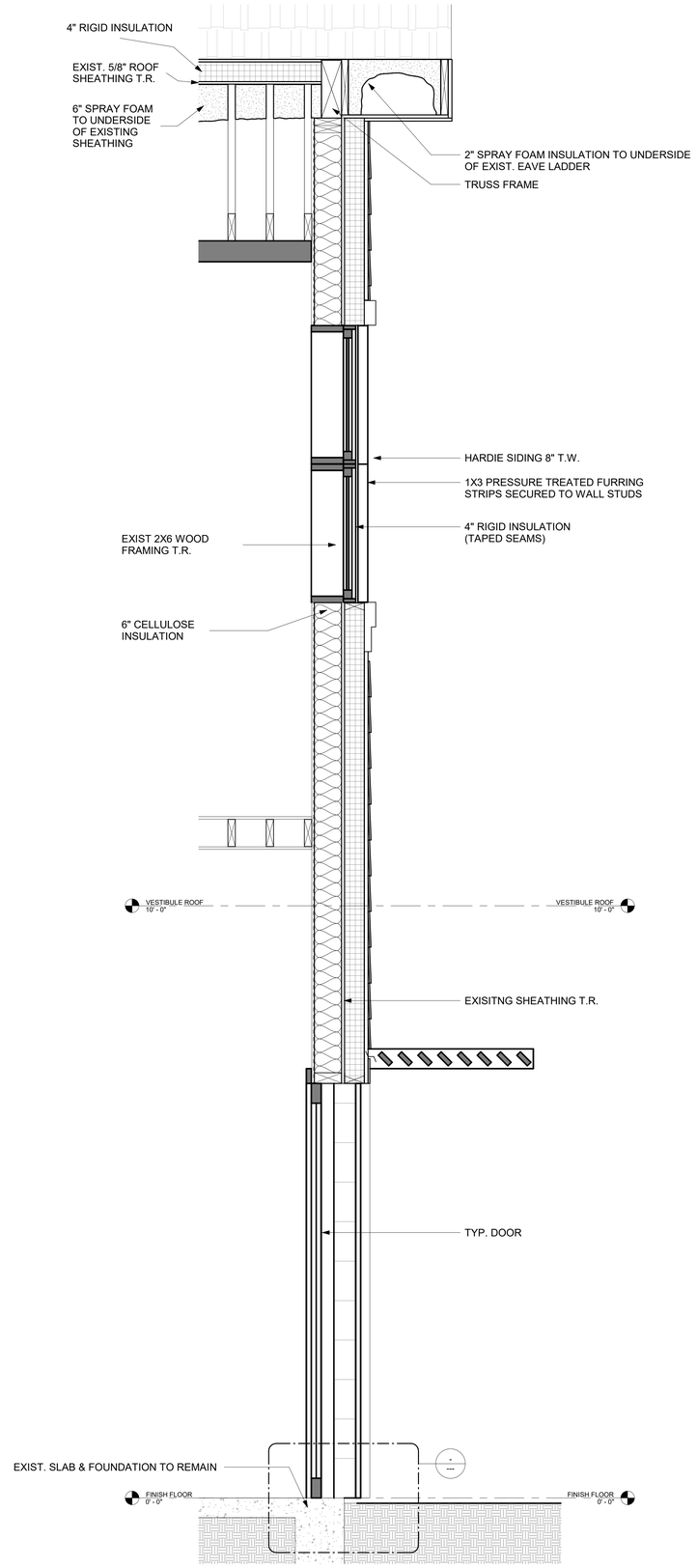
DRAWING NO.:
A-400

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/Wayland On 08-24-22.rvt

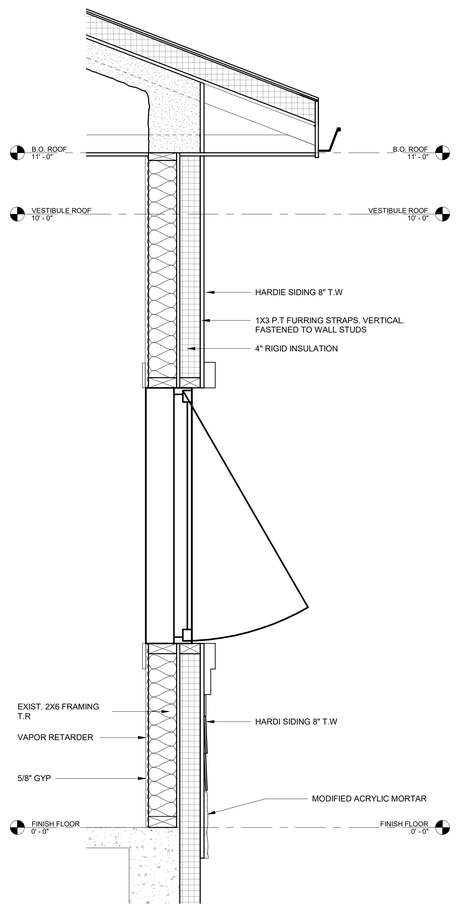
DATE & TIME PRINTED: 10/12/2022 5:58:50 PM



1 ENLARGED BUILDING ELEVATION (1)
1" = 1'-0"



2 ENLARGED BUILDING SECTION (1)
1" = 1'-0"



3 ENLARGED BUILDING SECTION (2)
1" = 1'-0"

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ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
A	09/19/2022	100% DD SET
B	10/12/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
BUILDING SECTIONS

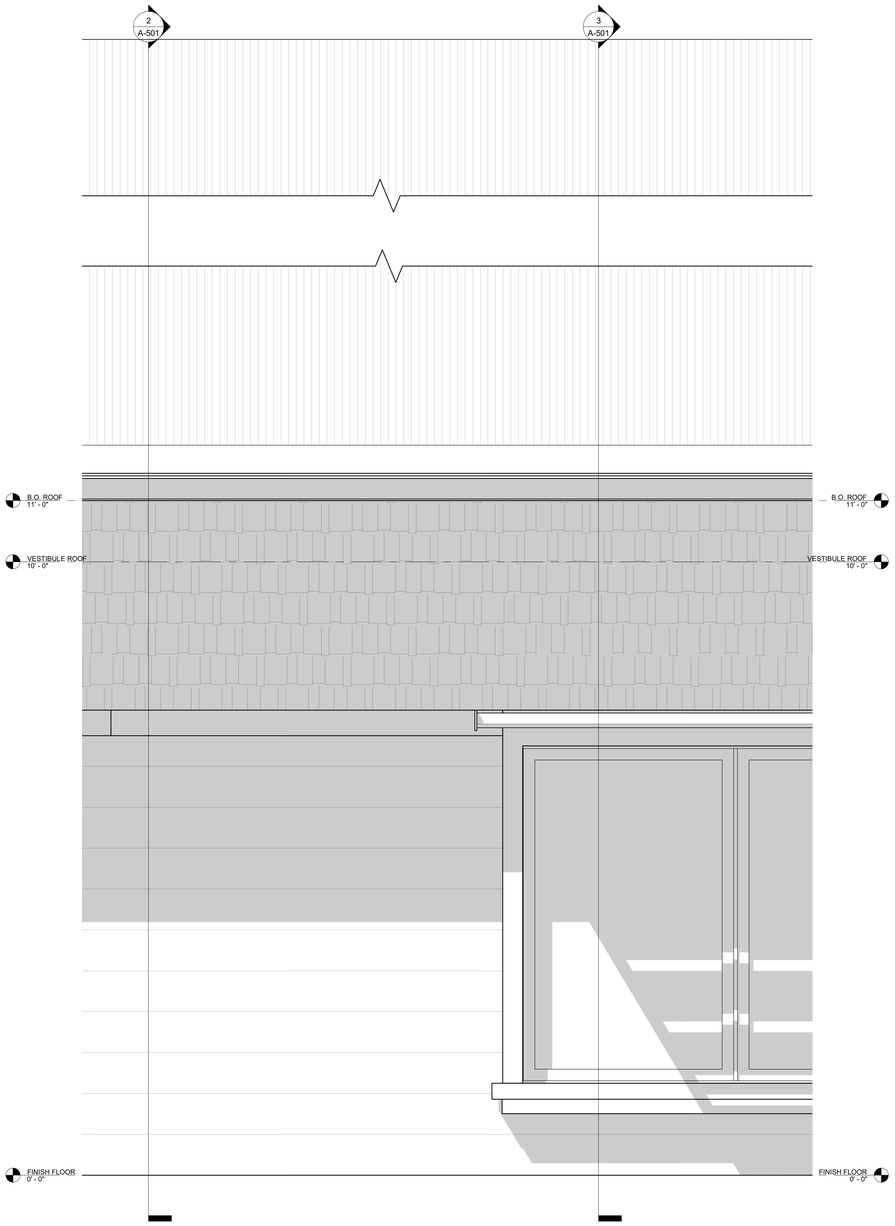
DRAWN BY: Author
CHECKED BY: Checker
SCALE: 1" = 1'-0"
PROJECT NO.: 21-125-2125.04

SEAL:

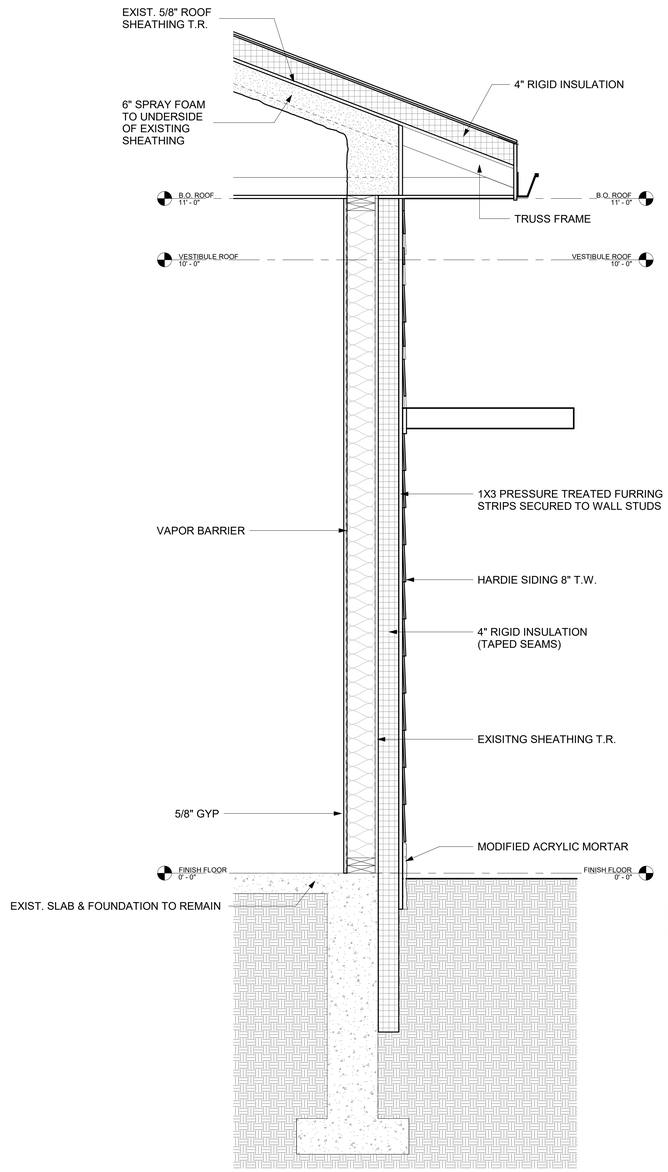
DRAWING NO.:
A-500

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/Wayland On 08-24-22.rvt

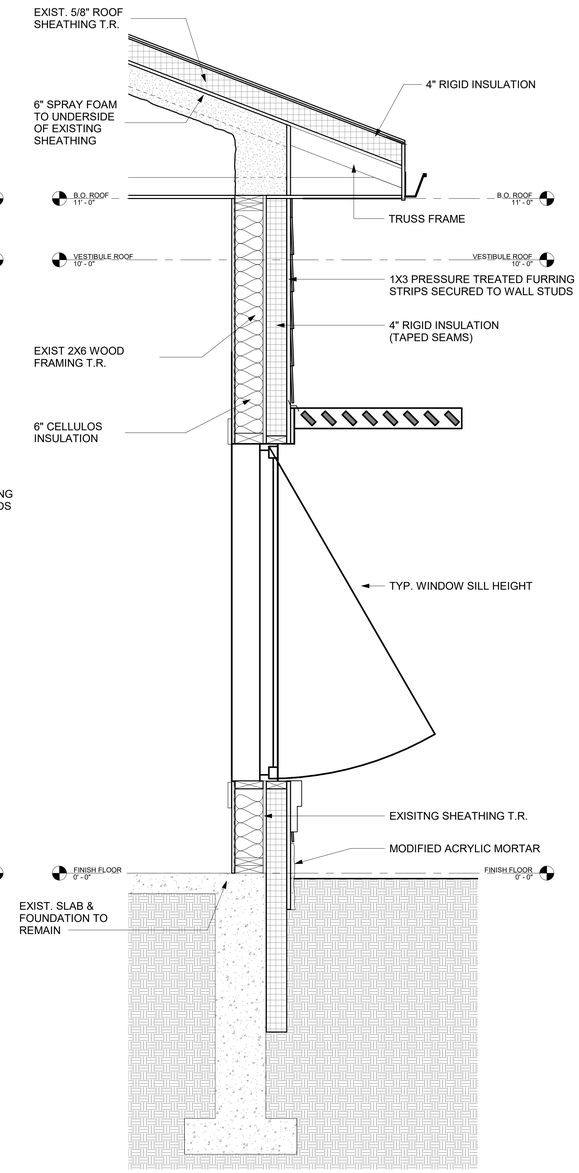
DATE & TIME PRINTED: 10/13/2022 9:20:03 AM



1 ENLARGED BUILDING ELEVATION (2)
1" = 1'-0"



2 ENLARGED BUILDING SECTION (3)
1" = 1'-0"



3 ENLARGED BUILDING SECTION (4)
1" = 1'-0"

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ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
A	09/19/2022	100% DD SET
B	10/12/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
BUILDING SECTIONS

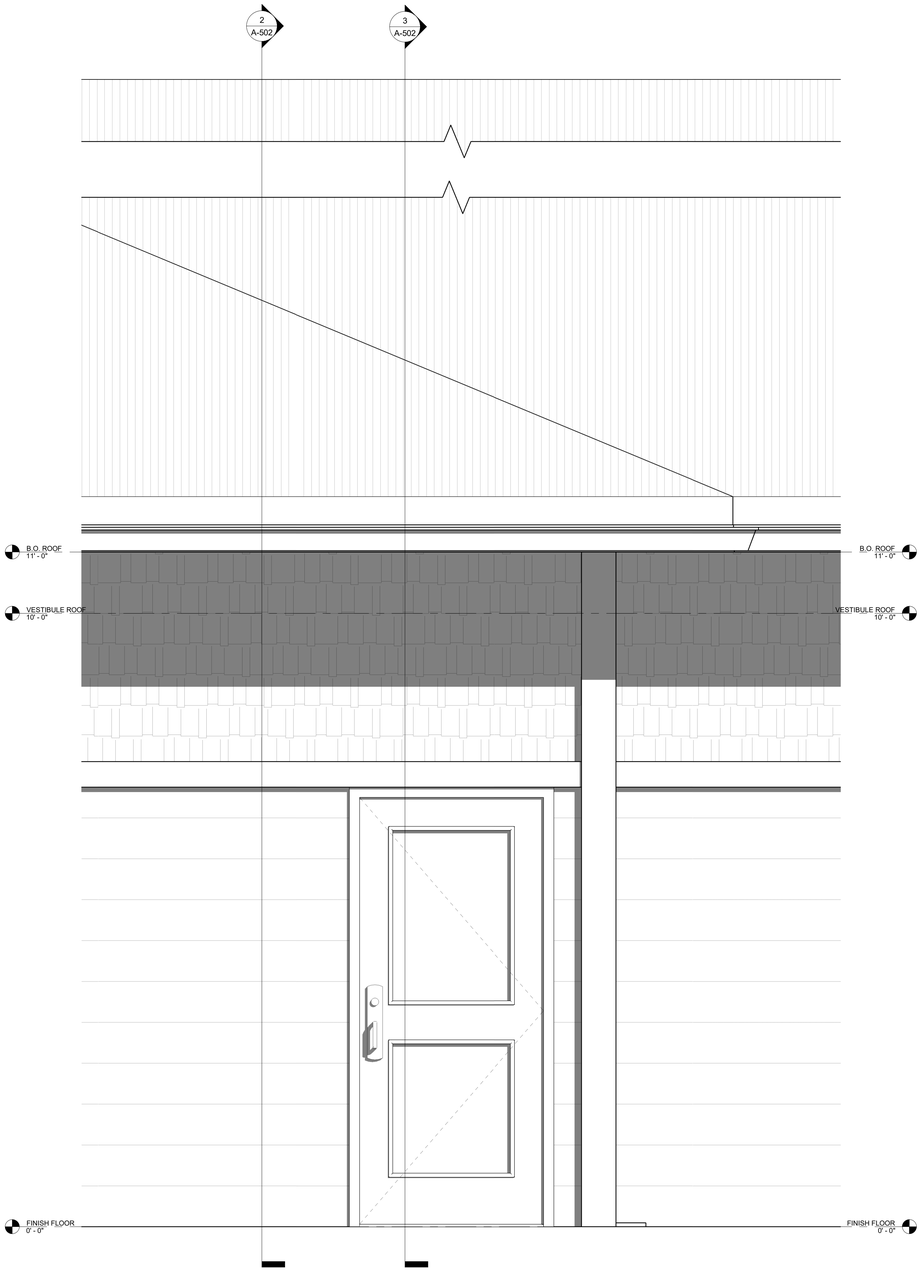
DRAWN BY: CF
CHECKED BY: CL
SCALE: 1" = 1'-0"
PROJECT NO.: 21-125-2125.04

SEAL:

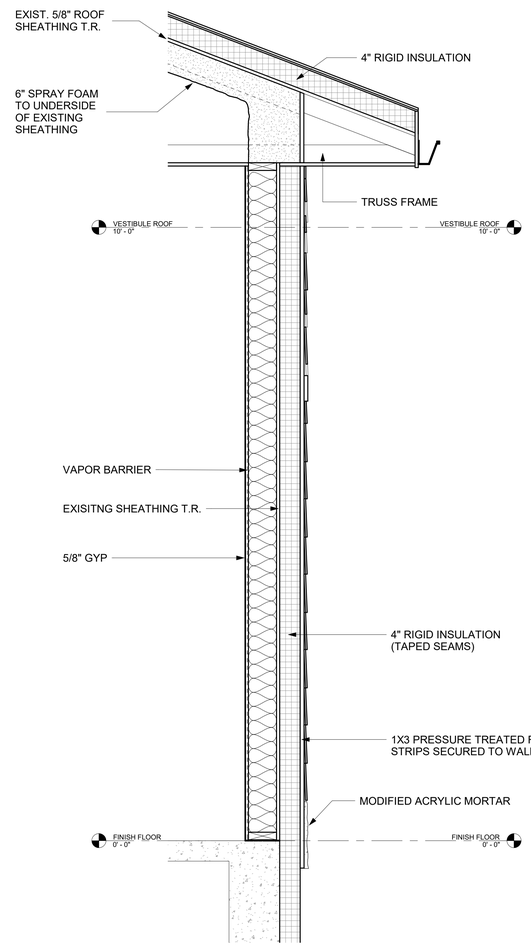
DRAWING NO.:
A-501

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/Wayland On 08-24-22.rvt

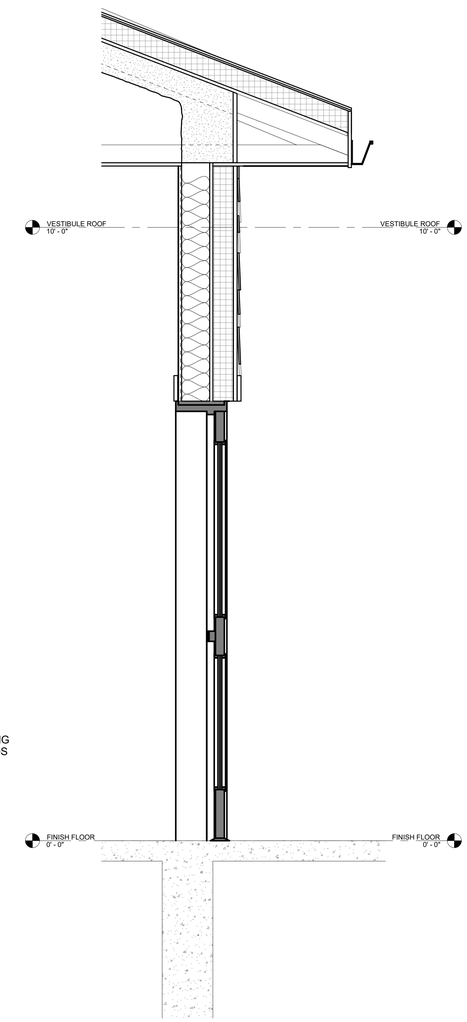
DATE & TIME PRINTED: 10/13/2022 9:20:05 AM



1 ENLARGED BUILDING ELEVATION (3)
1" = 1'-0"



2 ENLARGED BUILDING SECTION (5)
1" = 1'-0"



3 ENLARGED BUILDING SECTION (6)
1" = 1'-0"

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
B	10/12/2022	50% CD SET

KEY PLAN:

N TRUE

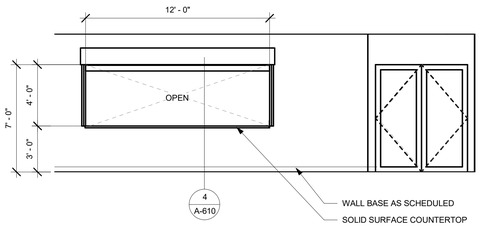
DRAWING TITLE:
BUILDING SECTIONS

DRAWN BY: CF	SEAL:
CHECKED BY: CL	
SCALE: 1" = 1'-0"	
PROJECT NO.: 21-125-2125.04	

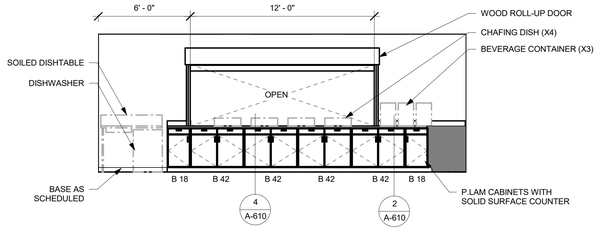
DRAWING NO.:
A-502

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/Wayland On 08-24-22.rvt

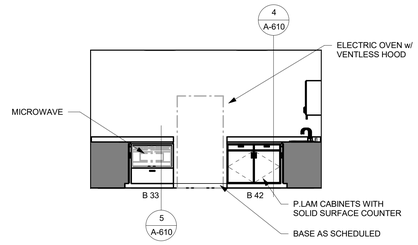
DATE & TIME PRINTED: 10/13/2022 9:20:09 AM



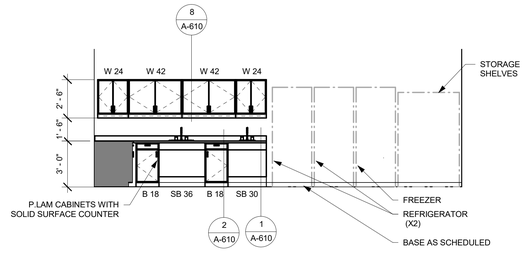
1 ACTIVITY ROOM 'B' #103
1/4" = 1'-0"



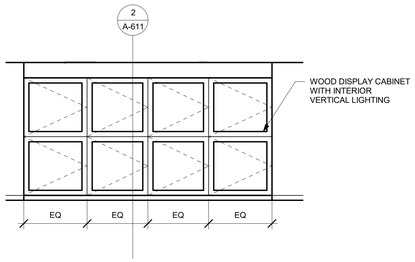
2 SERVING PANTRY #108 (1)
1/4" = 1'-0"



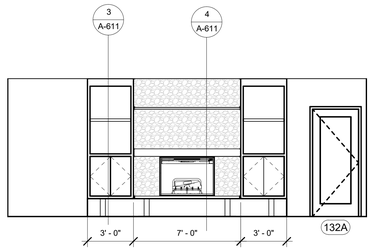
3 SERVING PANTRY #108 (2)
1/4" = 1'-0"



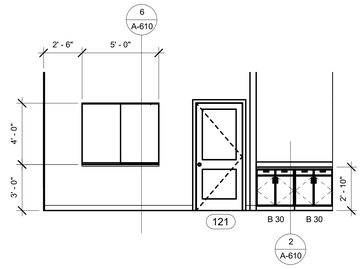
4 SERVING PANTRY #108 (3)
1/4" = 1'-0"



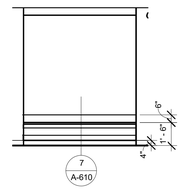
5 CORRIDOR #109
1/4" = 1'-0"



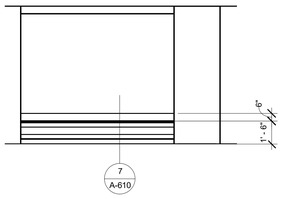
6 COA WELCOME #116 (1)
1/4" = 1'-0"



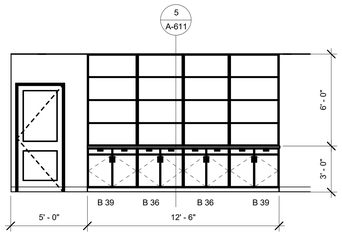
7 COA WELCOME #116 (2)
1/4" = 1'-0"



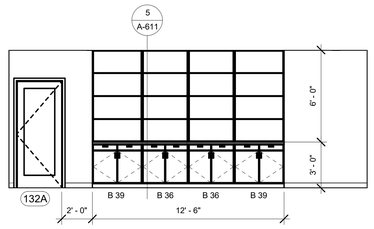
8 CORRIDOR #128 (1)
1/4" = 1'-0"



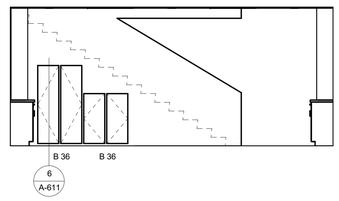
9 CORRIDOR #128 (2)
1/4" = 1'-0"



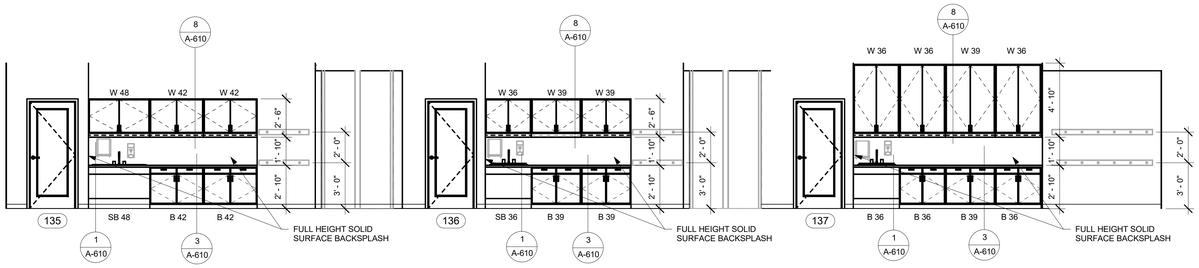
10 LIBRARY #132 (1)
1/4" = 1'-0"



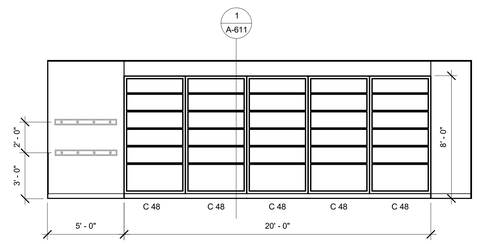
11 LIBRARY #132 (2)
1/4" = 1'-0"



12 LIBRARY #132 (3)
1/4" = 1'-0"



13 ACTIVITY ROOM C,D,E #135, #136, #137
1/4" = 1'-0"



14 ACTIVITY ROOM 'E' #137
1/4" = 1'-0"

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
A	09/19/2022	100% DD SET
B	10/12/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
INTERIOR ELEVATIONS

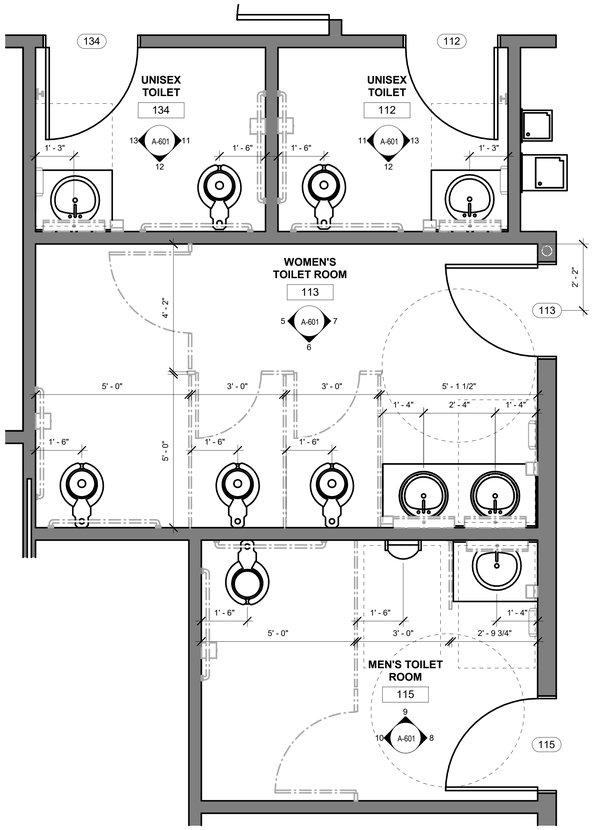
DRAWN BY: MK
CHECKED BY: JZ
SCALE: 1/4" = 1'-0"
PROJECT NO.: 21-125-2125.04

SEAL:

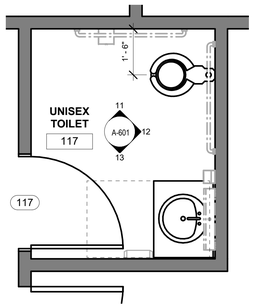
DRAWING NO.:
A-600

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/Wayland On 08-24-22.rvt

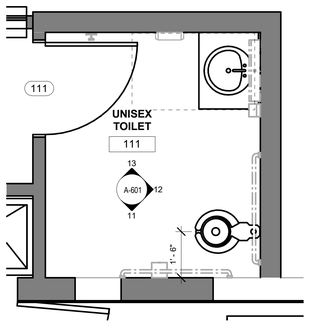
DATE & TIME PRINTED: 10/12/2022 5:59:05 PM



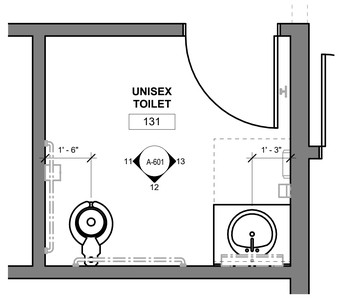
1 ENLARGED TOILET ROOM PLAN
1/2" = 1'-0"



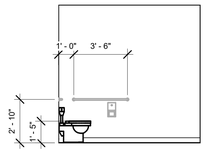
2 ENLARGED UNISEX TOILET #117
1/2" = 1'-0"



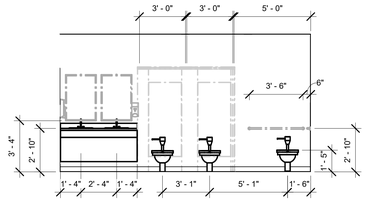
3 ENLARGED UNISEX TOILET #111
1/2" = 1'-0"



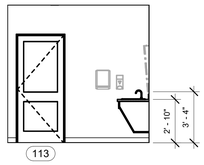
4 ENLARGED UNISEX TOILET #131
1/2" = 1'-0"



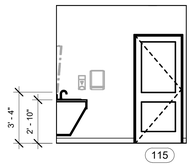
5 WOMENS TOILET ROOM #113 (1)
1/4" = 1'-0"



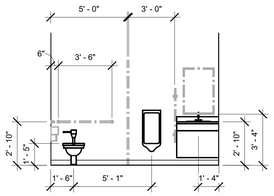
6 WOMEN TOILET ROOM #113 (2)
1/4" = 1'-0"



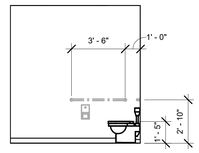
7 WOMENS TOILET ROOM #113 (3)
1/4" = 1'-0"



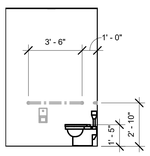
8 MENS TOILET ROOM #115 (1)
1/4" = 1'-0"



9 MENS TOILET ROOM #115 (2)
1/4" = 1'-0"

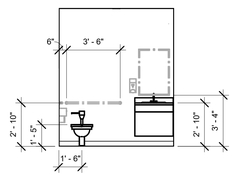


10 MENS TOILET ROOM #115 (3)
1/4" = 1'-0"



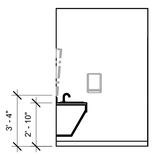
11 TYPICAL UNISEX TOILET (1)
1/4" = 1'-0"

UNISEX TOILET #111 (OPP/SIM)
UNISEX TOILET #112 (OPP/SIM)
UNISEX TOILET #117
UNISEX TOILET #131 (OPP/SIM)
UNISEX TOILET #134



12 TYPICAL UNISEX TOILET (2)
1/4" = 1'-0"

UNISEX TOILET #111 (OPP/SIM)
UNISEX TOILET #112 (OPP/SIM)
UNISEX TOILET #117
UNISEX TOILET #131 (OPP/SIM)
UNISEX TOILET #134



13 TYPICAL UNISEX TOILET (3)
1/4" = 1'-0"

UNISEX TOILET #111 (OPP/SIM)
UNISEX TOILET #112 (OPP/SIM)
UNISEX TOILET #117
UNISEX TOILET #131 (OPP/SIM)
UNISEX TOILET #134

TOWN OF WAYLAND

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
A	09/19/2022	100% DD SET
B	10/12/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
TOILET ROOM PLANS AND ELEVATIONS

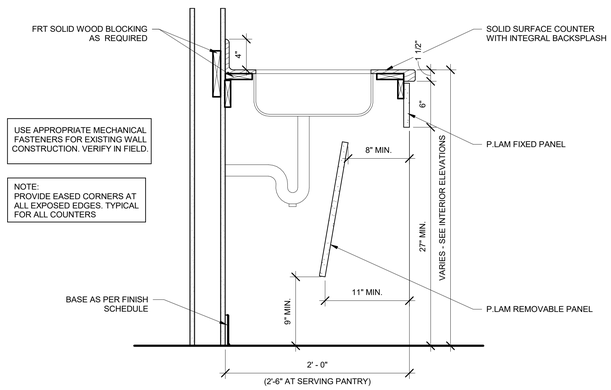
DRAWN BY: MK
CHECKED BY: JZ
SCALE: As indicated
PROJECT NO.: 21-125-2125.04

SEAL:

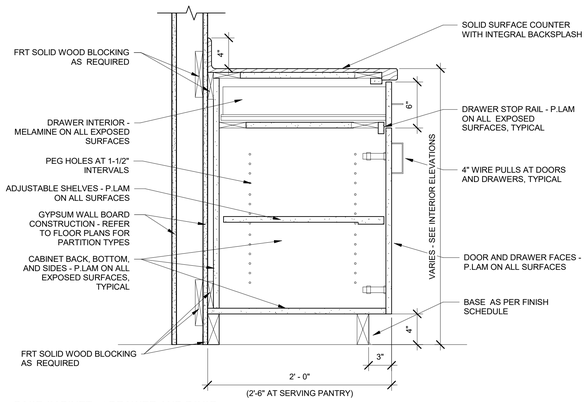
DRAWING NO.:
A-601

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/Wayland On 08-24-22.rvt

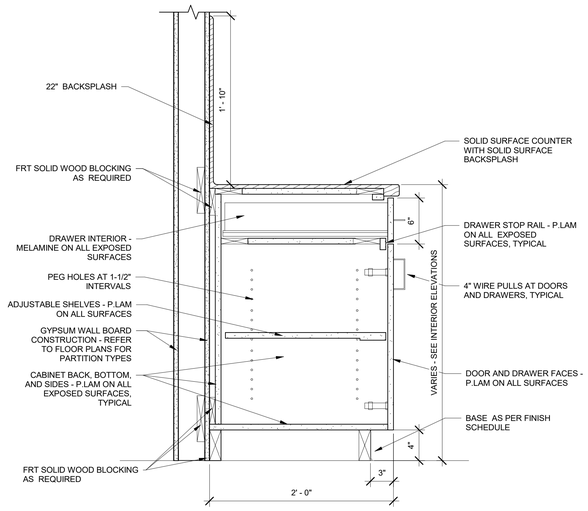
DATE & TIME PRINTED: 10/12/2022 5:59:08 PM



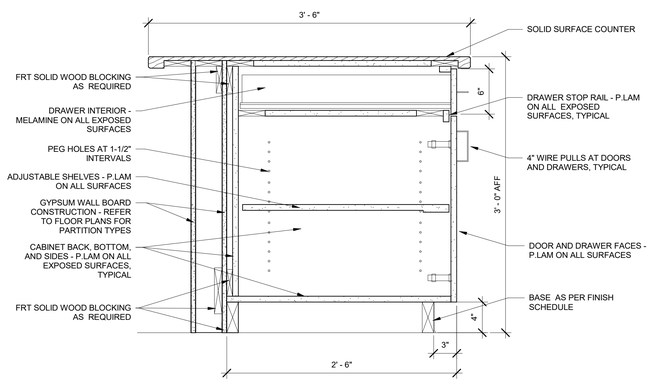
1 SINK BASE - SLOPED
1 1/2" = 1'-0"



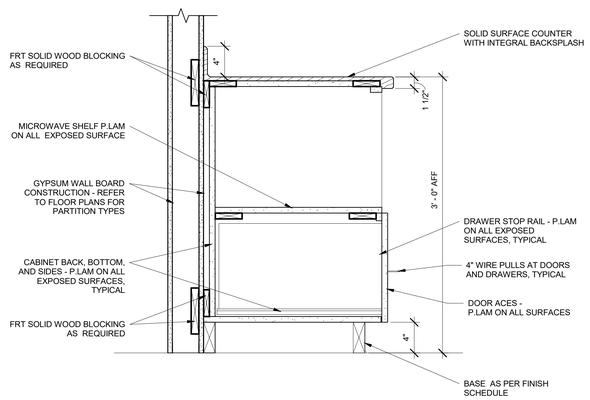
2 BASE CABINET w/ DRAWER AND DOOR
1 1/2" = 1'-0"



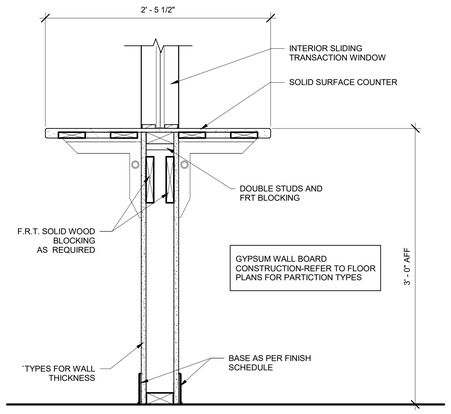
3 BASE CABINET w/ 22" BACKSPLASH
1 1/2" = 1'-0"



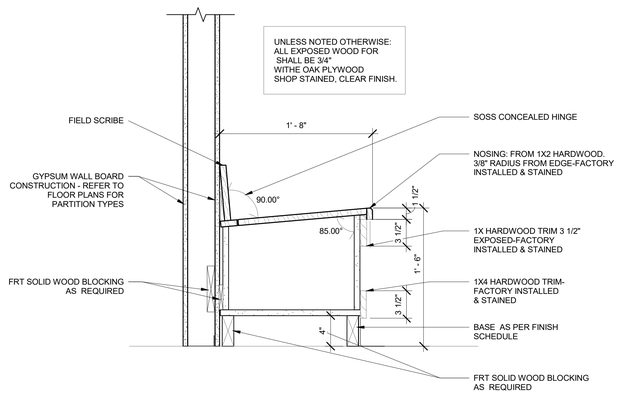
4 SERVING WINDOW BASE CABINET
1 1/2" = 1'-0"



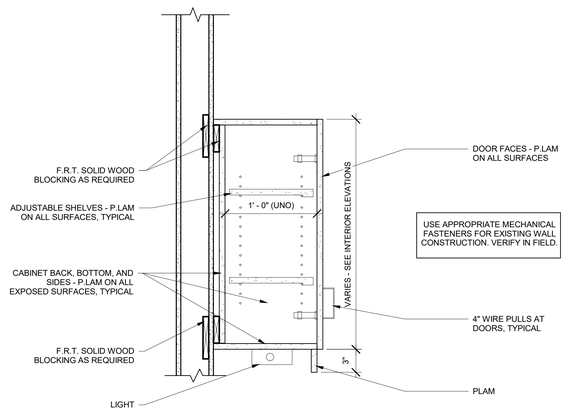
5 BASE CABINET w/ MICROWAVE SHELF
1 1/2" = 1'-0"



6 TRANSACTION WINDOW DETAIL
1 1/2" = 1'-0"



7 BENCH -CORRIDOR DETAIL
1 1/2" = 1'-0"



8 WALL MOUNTED CABINET
1 1/2" = 1'-0"

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
B	10/12/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
CASEWORK DETAILS

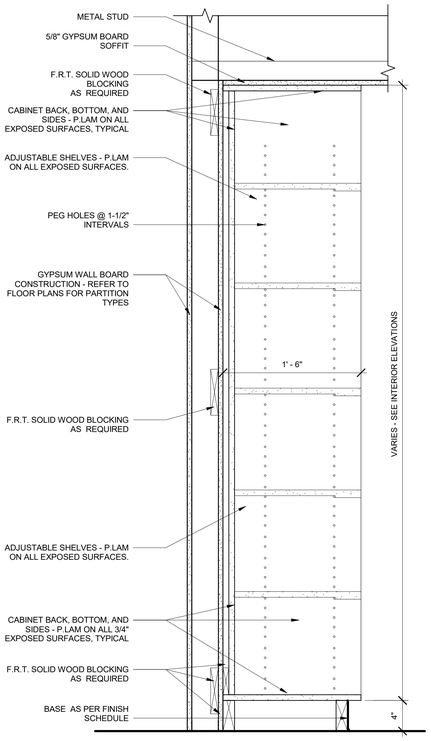
DRAWN BY: Author
CHECKED BY: Checker
SCALE: 1 1/2" = 1'-0"
PROJECT NO.: 21-125-2125.04

SEAL:

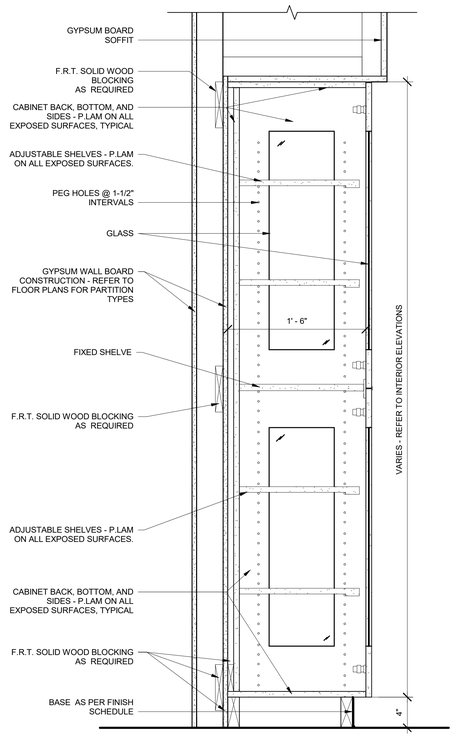
DRAWING NO.:
A-610

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/Wayland On 08-24-22.rvt

DATE & TIME PRINTED: 10/12/2022 5:59:08 PM



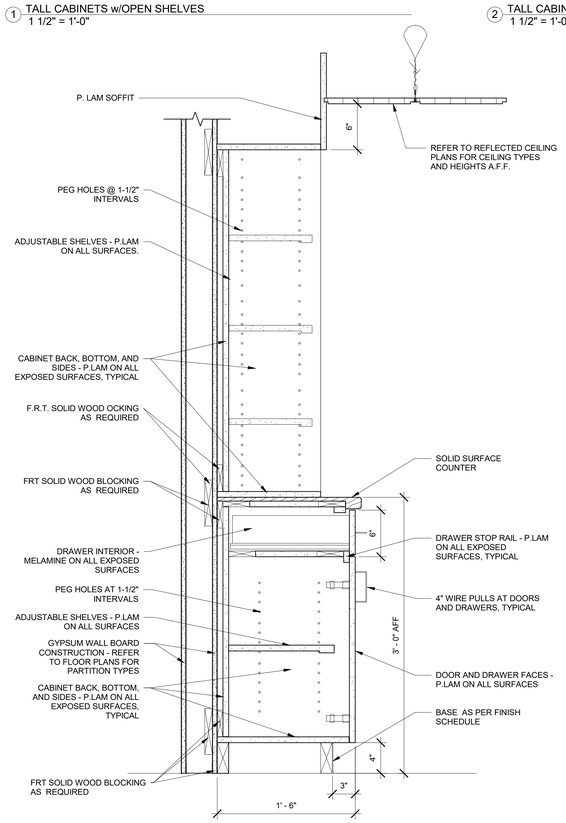
1 TALL CABINETS w/OPEN SHELVES
1 1/2" = 1'-0"



2 TALL CABINET w/DISPLAY DOORS
1 1/2" = 1'-0"

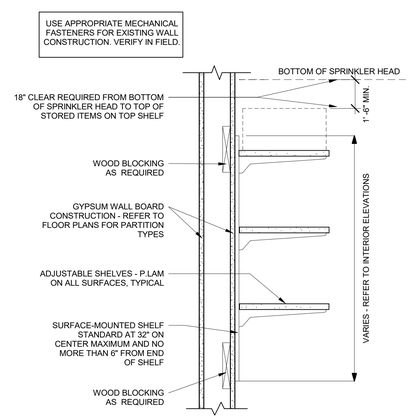
BASE CABINET on BASE MOUNT
3 w/OPEN SHELFS
1 1/2" = 1'-0"

4 CHIMNEY MOUNT w/STONE WALL
1 1/2" = 1'-0"



5 BASE CABINET AND SHELVES
1 1/2" = 1'-0"

6 UNDER STAIR STORAGE
1 1/2" = 1'-0"



7 ADJUSTABLE SHELF
1 1/2" = 1'-0"

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
B	10/12/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
CASEWORK DETAILS

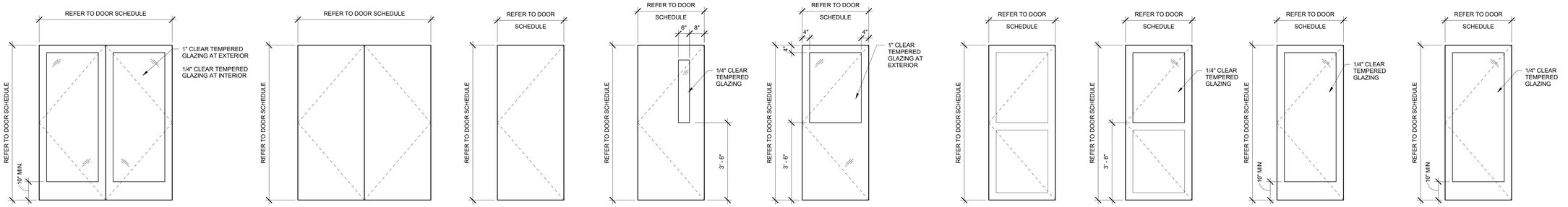
DRAWN BY: MK
CHECKED BY: JZ
SCALE: 1 1/2" = 1'-0"
PROJECT NO.: 21-125-2125.04

SEAL:

DRAWING NO.:
A-611

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/Wayland On 08-24-22.rvt

DATE & TIME PRINTED: 10/12/2022 5:59:09 PM



A1 INTERIOR DOUBLE SOLID WOOD w/ FULL GLASS

B1 INTERIOR DOUBLE FLUSH SOLID WOOD

C1 EXTERIOR FLUSH SOLID WOOD

C2 INTERIOR FLUSH SOLID WOOD

D1 INTERIOR SOLID WOOD w/ VISION PANEL

E1 EXTERIOR DOUBLE SOLID WOOD w/ HALF GLASS

F1 INTERIOR SHAKER SOLID WOOD

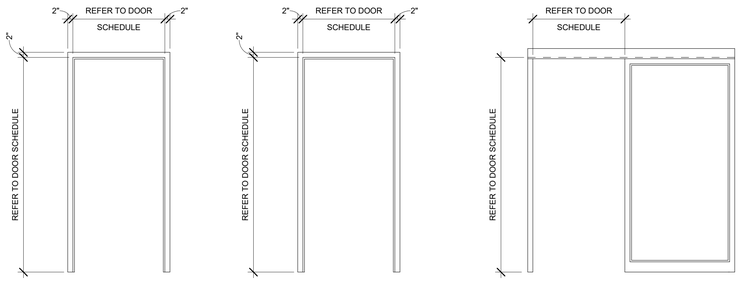
G1 INTERIOR SHAKER SOLID WOOD w/ HALF GLASS

H1 INTERIOR SHAKER SOLID WOOD w/ FULL GLASS

J1 EXTERIOR ALUMINUM w/ FULL GLASS

J2 INTERIOR ALUMINUM w/ FULL GLASS

1 DOORS TYPES
1/2" = 1'-0"



A RABBIT WOOD DOOR FRAME

B POCKET WOOD DOOR FRAME

C SLIDING DOOR FRAME

2 FRAME TYPES
1/2" = 1'-0"

DOOR SCHEDULE

DOOR NUMBER	WIDTH	HEIGHT	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	HARDWARE	COMMENTS
100A	3' - 0"	7' - 0"	J1	ALUMINUM	???	MANUF	ALUMINUM	???		
100B	3' - 0"	7' - 0"	J2	ALUMINUM	???	MANUF	ALUMINUM	???		
102	6' - 0"	7' - 0"	A1	SOLID WOOD	NATURAL FIR / CLEAR	A	SOLID WOOD	NATURAL FIR / CLEAR		
103	6' - 0"	7' - 0"	A1	SOLID WOOD	NATURAL FIR / CLEAR	A	SOLID WOOD	NATURAL FIR / CLEAR		
104A	6' - 0"	7' - 0"	B1	SOLID WOOD	BIRCH / PAINT	A	SOLID WOOD	BIRCH / PAINT		
104B	6' - 0"	7' - 0"	B1	SOLID WOOD	BIRCH / PAINT	A	SOLID WOOD	BIRCH / PAINT		
105	3' - 0"	7' - 0"	C2	SOLID WOOD	BIRCH / PAINT	A	SOLID WOOD	BIRCH / PAINT		
106A	6' - 0"	7' - 0"	B1	SOLID WOOD	BIRCH / PAINT	A	SOLID WOOD	BIRCH / PAINT		
106B	6' - 0"	7' - 0"	B1	SOLID WOOD	BIRCH / PAINT	A	SOLID WOOD	BIRCH / PAINT		
107	3' - 0"	7' - 0"	C1	SOLID WOOD	PAINT	???	???	???		
108	3' - 6"	7' - 0"	D1	SOLID WOOD	NATURAL FIR / CLEAR	A	SOLID WOOD	NATURAL FIR / CLEAR		
109	6' - 0"	7' - 0"	A1	SOLID WOOD	NATURAL FIR / CLEAR	A	SOLID WOOD	NATURAL FIR / CLEAR		
110A	3' - 0"	7' - 0"	J2	ALUMINUM	???	MANUF	ALUMINUM	???		
110B	3' - 0"	7' - 0"	J1	ALUMINUM	???	MANUF	ALUMINUM	???		
111	3' - 0"	7' - 0"	F1	SOLID WOOD	NATURAL FIR / CLEAR	A	SOLID WOOD	NATURAL FIR / CLEAR		
112	3' - 0"	7' - 0"	F1	SOLID WOOD	NATURAL FIR / CLEAR	A	SOLID WOOD	NATURAL FIR / CLEAR		
113	3' - 0"	7' - 0"	F1	SOLID WOOD	NATURAL FIR / CLEAR	A	SOLID WOOD	NATURAL FIR / CLEAR		
114	3' - 0"	7' - 0"	C2	SOLID WOOD	BIRCH / PAINT	A	SOLID WOOD	BIRCH / PAINT		
115	3' - 0"	7' - 0"	F1	SOLID WOOD	NATURAL FIR / CLEAR	A	SOLID WOOD	NATURAL FIR / CLEAR		
116A	6' - 0"	7' - 0"	A1	SOLID WOOD	NATURAL FIR / CLEAR	A	SOLID WOOD	NATURAL FIR / CLEAR		
116B	6' - 0"	7' - 0"	???	SOLID WOOD	???	???	???	???		
116C	6' - 0"	7' - 0"	???	SOLID WOOD	???	???	???	???		
116D	6' - 0"	7' - 0"	???	SOLID WOOD	???	???	???	???		
117	3' - 0"	7' - 0"	F1	SOLID WOOD	NATURAL FIR / CLEAR	A	SOLID WOOD	NATURAL FIR / CLEAR		
118	3' - 0"	7' - 0"	G1	SOLID WOOD	NATURAL FIR / CLEAR	A	SOLID WOOD	NATURAL FIR / CLEAR		
119	6' - 0"	7' - 0"	B1	SOLID WOOD	NATURAL FIR / CLEAR	B	SOLID WOOD	NATURAL FIR / CLEAR		
120	3' - 0"	7' - 0"	G1	SOLID WOOD	NATURAL FIR / CLEAR	A	SOLID WOOD	NATURAL FIR / CLEAR		
121	3' - 0"	7' - 0"	G1	SOLID WOOD	NATURAL FIR / CLEAR	A	SOLID WOOD	NATURAL FIR / CLEAR		
122	3' - 0"	7' - 0"	H1	SOLID WOOD	NATURAL FIR / CLEAR	C	METAL	???		
123	3' - 6"	7' - 0"	D1	SOLID WOOD	NATURAL FIR / CLEAR	A	SOLID WOOD	NATURAL FIR / CLEAR		
124	3' - 0"	6' - 8"	H1	SOLID WOOD	NATURAL FIR / CLEAR	C	METAL	???		
125	4' - 0"	6' - 8"	H1	SOLID WOOD	NATURAL FIR / CLEAR	C	METAL	???		
126	3' - 0"	7' - 0"	G1	SOLID WOOD	NATURAL FIR / CLEAR	A	SOLID WOOD	NATURAL FIR / CLEAR		
127	4' - 0"	6' - 8"	H1	SOLID WOOD	NATURAL FIR / CLEAR	C	METAL	???		
128	3' - 0"	7' - 0"	E1	SOLID WOOD	PAINT	???	???	???		
128A	3' - 0"	7' - 0"	C2	SOLID WOOD	BIRCH / PAINT	A	SOLID WOOD	BIRCH / PAINT		
129	3' - 0"	7' - 0"	C2	SOLID WOOD	BIRCH / PAINT	A	SOLID WOOD	BIRCH / PAINT		
130	3' - 0"	7' - 0"	C2	SOLID WOOD	BIRCH / PAINT	A	SOLID WOOD	BIRCH / PAINT		
131	3' - 0"	7' - 0"	F1	SOLID WOOD	NATURAL FIR / CLEAR	A	SOLID WOOD	NATURAL FIR / CLEAR		
132A	3' - 0"	7' - 0"	H1	SOLID WOOD	NATURAL FIR / CLEAR	A	SOLID WOOD	NATURAL FIR / CLEAR		
132B	3' - 0"	7' - 0"	G1	SOLID WOOD	NATURAL FIR / CLEAR	A	SOLID WOOD	NATURAL FIR / CLEAR		
133	3' - 0"	7' - 0"	C2	SOLID WOOD	BIRCH / PAINT	A	SOLID WOOD	BIRCH / PAINT		
134	3' - 0"	7' - 0"	F1	SOLID WOOD	NATURAL FIR / CLEAR	A	SOLID WOOD	NATURAL FIR / CLEAR		
135	3' - 0"	7' - 0"	H1	SOLID WOOD	NATURAL FIR / CLEAR	A	SOLID WOOD	NATURAL FIR / CLEAR		
135A	6' - 0"	7' - 0"	B1	SOLID WOOD	BIRCH / PAINT	A	SOLID WOOD	BIRCH / PAINT		
135B	6' - 0"	7' - 0"	B1	SOLID WOOD	BIRCH / PAINT	A	SOLID WOOD	BIRCH / PAINT		
136	3' - 0"	7' - 0"	H1	SOLID WOOD	NATURAL FIR / CLEAR	A	SOLID WOOD	NATURAL FIR / CLEAR		
137	3' - 0"	7' - 0"	H1	SOLID WOOD	NATURAL FIR / CLEAR	A	SOLID WOOD	NATURAL FIR / CLEAR		
138	10' - 0"	7' - 0"	B1	???	PAINT	???	???	???		
200A	3' - 0"	7' - 0"	C2	SOLID WOOD	BIRCH / PAINT	A	SOLID WOOD	BIRCH / PAINT		1 HR RATED
200B	3' - 0"	7' - 0"	C2	SOLID WOOD	BIRCH / PAINT	A	SOLID WOOD	BIRCH / PAINT		1 HR RATED

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
A	09/19/2022	100% DD SET
B	10/12/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
DOOR AND HARDWARE SCHEDULE AND DETAILS

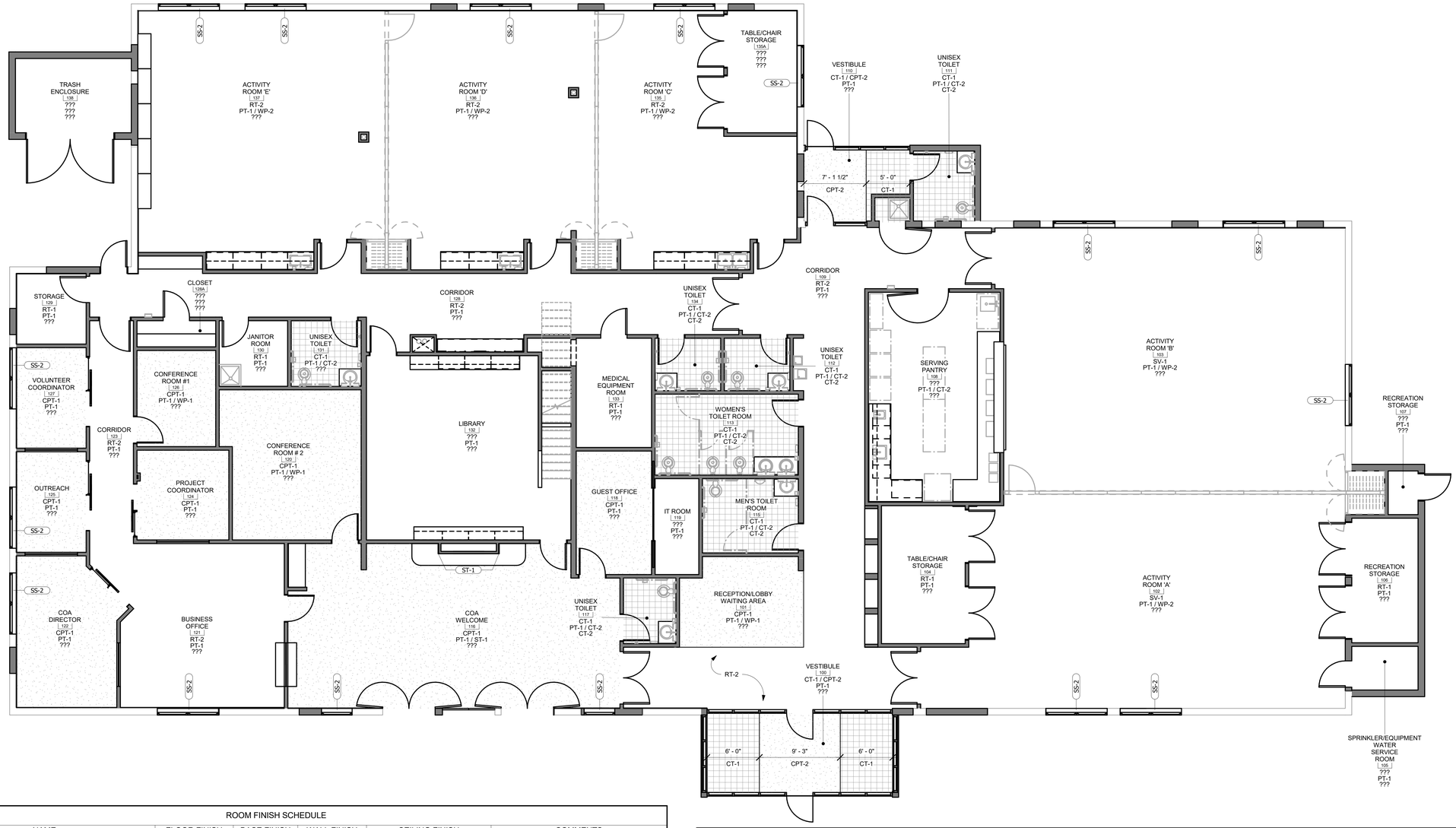
DRAWN BY: MK
CHECKED BY: JZ
SCALE: 1/2" = 1'-0"
PROJECT NO.: 21-125-2125.04

SEAL:

DRAWING NO.:
A-700

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/Wayland On 08-24-22.rvt

DATE & TIME PRINTED: 10/12/2022 5:59:09 PM



ROOM FINISH SCHEDULE

NUMBER	NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	COMMENTS
100	VESTIBULE	CT-1 / CPT-2	???	PT-1	ACT-1 / GWB (PT-2)	
101	RECEPTION/LOBBY WAITING AREA	CPT-1	???	PT-1 / WP-1	ACT-1 / ACT-2	
102	ACTIVITY ROOM 'A'	SV-1	???	PT-1 / WP-2	ACT-1 / GWB (PT-2)	
103	ACTIVITY ROOM 'B'	SV-1	???	PT-1 / WP-2	ACT-1 / GWB (PT-2)	
104	TABLE/CHAIR STORAGE	RT-1	???	PT-1	ACT-1	
105	SPRINKLER/EQUIPMENT WATER SERVICE ROOM	???	???	PT-1	ACT-1	
106	RECREATION STORAGE	RT-1	???	PT-1	ACT-1	
107	RECREATION STORAGE	???	???	PT-1	ACT-1	
108	SERVING PANTRY	???	???	PT-1 / CT-2	ACT-1	
109	CORRIDOR	RT-2	???	PT-1	ACT-1 / GWB (PT-2)	
110	VESTIBULE	CT-1 / CPT-2	???	PT-1	ACT-1 / GWB (PT-2)	
111	UNISEX TOILET	CT-1	CT-2	PT-1 / CT-2	GWB (PT-2)	
112	UNISEX TOILET	CT-1	CT-2	PT-1 / CT-2	GWB (PT-2)	
113	WOMEN'S TOILET ROOM	CT-1	CT-2	PT-1 / CT-2	GWB (PT-2)	
115	MEN'S TOILET ROOM	CT-1	CT-2	PT-1 / CT-2	GWB (PT-2)	
116	COA WELCOME	CPT-1	???	PT-1 / ST-1	ACT-1 / ACT-2 / GWB (PT-2)	
117	UNISEX TOILET	CT-1	CT-2	PT-1 / CT-2	GWB (PT-2)	
118	GUEST OFFICE	CPT-1	???	PT-1	ACT-1	
119	IT ROOM	???	???	PT-1	ACT-1	
120	CONFERENCE ROOM # 2	CPT-1	???	PT-1 / WP-1	ACT-1	
121	BUSINESS OFFICE	RT-2	???	PT-1	ACT-1	
122	COA DIRECTOR	CPT-1	???	PT-1	ACT-1	
123	CORRIDOR	RT-2	???	PT-1	ACT-1	
124	PROJECT COORDINATOR	CPT-1	???	PT-1	ACT-1	
125	OUTREACH	CPT-1	???	PT-1	ACT-1	
126	CONFERENCE ROOM #1	CPT-1	???	PT-1 / WP-1	ACT-1	
127	VOLUNTEER COORDINATOR	CPT-1	???	PT-1	ACT-1	
128	CORRIDOR	RT-2	???	PT-1	ACT-1 / GWB (PT-2)	
128A	CLOSET	???	???	???		
129	STORAGE	RT-1	???	PT-1	ACT-1	
130	JANITOR ROOM	RT-1	???	PT-1	GWB (PT-2)	
131	UNISEX TOILET	CT-1	???	PT-1 / CT-2	GWB (PT-2)	
132	LIBRARY	???	???	PT-1	ACT-1	
133	MEDICAL EQUIPMENT ROOM	RT-1	???	PT-1	ACT-1	
134	UNISEX TOILET	CT-1	CT-2	PT-1 / CT-2	GWB (PT-2)	
135	ACTIVITY ROOM 'C'	RT-2	???	PT-1 / WP-2	ACT-1 / GWB (PT-2)	
135A	TABLE/CHAIR STORAGE	???	???	???		
136	ACTIVITY ROOM 'D'	RT-2	???	PT-1 / WP-2	ACT-1 / GWB (PT-2)	
137	ACTIVITY ROOM 'E'	RT-2	???	PT-1 / WP-2	ACT-1 / GWB (PT-2)	
138	TRASH ENCLOSURE	???	???	???	--	
200	MECANICAL PLATFORM	???	--	PT-1	GWB (PT-2)	

MATERIAL SCHEDULE

TYPE	MANUFACTURER	SERIES	MODEL	SIZE	COLOR	COMMENTS
CARPET						
CPT-1	INVISION	--	PLANKS	--	--	--
CPT-2	MATS INC	--	--	--	--	RAISED CARPET SLATS THROUGH TROUGH
CEILING TILE						
ACT-1	ARMSTRONG	DUNE, 2nd LOOK	TEGULAR	24" x 24"	WHITE	15/16 GRID
ACT-2	ARMSTRONG	WOODWORKS	GRILLE	--	--	--
ACT-3	ARMSTRONG			--	--	--
CERAMIC TILE						
CT-1	CROSSVILLE	ARGENT	--	--	--	
CT-2	DALTILE	--	--	--	--	MATTE AND GLOSS FINISH
PAINT						
PT-1	BENJAMIN MOORE	EGG-SHELL	--	--	ACCOLADE 'KM4957'	GENERAL PAINT
PT-2	BENJAMIN MOORE	MATTE	--	--	--	SOFFIT / CEILING PAINT
PT-3	BENJAMIN MOORE	SEMI-GLOSS	--	--	--	DOOR FRAME PAINT
PLASTIC LAMINATE						
PL-1	--	--	--	--	--	--
RESILIENT TILE						
RT-1	ARMSTRONG	EXCELON	--	--	--	--
RT-2	FORBO	MARMOLEUM	--	--	--	--
SHEET VINYL						
SV-1	JOHNSONITE	--	--	--	--	--
SOLID SURFACE						
SS-1	--	--	--	--	--	--
SS-2	--	--	--	--	--	--
STONE VEENER						
ST-2	ELDORADO	HILLSTONE	LUCERA	--	--	--
WALL PROTECTION						
WP-1	ArcCOM	TYPE II	--	--	--	--
WP-2	CARNEGIE	ACOUSTIC PANELS	FABRIC	--	--	

TOWN OF WAYLAND

WAYLAND CoA
COMMUNITY CENTER
8 ANDREW AVENUE,
WAYLAND, MA 01778

DAI DiGIORGIO ASSOCIATES INCORPORATED
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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
A	09/19/2022	100% DD SET
B	10/12/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
OVERALL GROUND FINISH PLAN

DRAWN BY: MK
CHECKED BY: JZ
SCALE: 3/16" = 1'-0"
PROJECT NO.: 21-125-2125.04

SEAL:

DRAWING NO.:
A-801

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/Wayland On 08-24-22.rvt

DATE & TIME PRINTED: 10/12/2022 5:59:12 PM

ABBREVIATIONS

1P	SINGLE POLE
1PH, 1Ø	SINGLE PHASE
3PH, 3Ø	THREE PHASE
4W	FOUR-WIRE
Δ	DELTA
Ø	PHASE
A,AMP	AMPERE
AC	ARMORED CABLE
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ALT	ALTERNATE
ANN	ANNUNCIATOR
ARCH	ARCHITECTURAL
ATS	AUTOMATIC TRANSFER SWITCH
AUX.	AUXILIARY
AV	AUDIO VISUAL
BKR	BREAKER
BMS	BUILDING MANAGEMENT SYSTEM
BOS	BOTTOM OF STEEL
C, CND	CONDUIT (GENERIC NAME FOR RACEWAY) PROVIDED AS SPECIFIED
CAT	CATALOG
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CL	CENTERLINE
CLG	CEILING
CO	CARBON MONOXIDE
COMM	COMMUNICATION
CP	CONTROL PANEL
CR	CONTROL RELAY
CT	CURRENT TRANSFORMER
CU	COPPER
DB	DIRECT BURIED
DN	DOWN
DS, DISC	DISCONNECT SWITCH
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATOR
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EPO	EMERGENCY POWER OFF
EWC	ELECTRICAL WATER COOLER
F	FUSE
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS/OWNER
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FP	FIRE PROTECTION SYSTEM INSTALLER
FT	FEET
FWE	FURNISHED WITH EQUIPMENT
G, GND	GROUND OR GROUNDING
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GFI, GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HH	HAND HOLE
HP	HORSEPOWER
HTR	HEATER
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
Hz	HERTZ
IBC	INTERNATIONAL BUILDING CODE
IC	INTERRUPTING CAPACITY
IG	ISOLATED GROUND
J, JB	JUNCTION BOX
JC	JANITOR'S CLOSET
kCMIL	THOUSAND CIRCULAR MILS
kV	KILO-VOLT
kVA	KILO-VOLT AMPERE
kW	KILO-WATT
kWH	KILO-WATT HOUR
LTG	LIGHTING
LP	LIGHTING PANEL
MC	METAL CLAD
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MFR	MANUFACTURER
MH	MANHOLE
MI	MINERAL INSULATED
MIN	MINIMUM
MISC	MISCELLANENOUS
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTS	MANUAL TRANSFER SWITCH
MTD	MOUNTED
N, NEUT	NEUTRAL
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NO. #	NUMBER
NORM	NORMAL
NRTL	NATIONALLY RECOGNIZED TESTING LABORATORY AS APPROVED BY OSHA AND LOCAL AUTHORITIES
NTS	NOT TO SCALE
OCPD	OVERCURRENT PROTECTIVE DEVICE
PB	PULL BOX
PC	PLUMBING SYSTEM INSTALLER
PF	POWER FACTOR
PH	PHASE
PIR	PASSIVE INFRARED
PNL	PANEL
PV	PHOTOVOLTAIC
PVC	POLY-VINYL CHLORIDE CONDUIT
PWR	POWER
QTY	QUANTITY
RGS	RIGID GALVANIZED STEEL
REQD	REQUIRED
RMS	ROOT MEAN SQUARE
RNMC	RIGID NON-METAL CONDUIT
RSC	RIGID STEEL CONDUIT
S, SW	SWITCH
SD	SMOKE DETECTOR
SP	SPARE
SPKR	SPEAKER
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TC	TELECOMMUNICATIONS CABLE INSTALLER
TEL	TELEPHONE
TMCB	TERMAL MAGNETIC CIRCUIT BREAKER
TP	TAMPER PROOF, TWISTED PAIR
TPS	TWISTED PAIR SHIELDED
TVSS	TRANSIENT VOLTAGE SURGE SUPRESSER
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY LISTING
UON	UNLESS OTHERWISE NOTED
V	VOLT
VA	VOLT AMPERE
VAR	VOLT-AMPERE REACTIVE
VFD	VARIABLE FREQUENCY DRIVE
W	WATT, WIRE
WH	WATER HEATER
WG	WIRE GUARD
WP	WEATHERPROOF
XFMR, T	TRANSFORMER
XP	EXPLOSION PROOF
Y	WYE (STAR)

ONE-LINE SCHEMATIC SYMBOLS

IDENTIFIER	DESCRIPTION
	POWER TRANSFORMER DRY TYPE, UON.
V.T.	VOLTAGE TRANSFORMER
C.T.	CURRENT TRANSFORMER
	FUSE
GF	GROUND FAULT SENSOR & RELAY
AS	AMPMETER SWITCH
A AM	AMPMETER
V VS	VOLTMETER
	WATTHOUR METER
**AF **AT	DRAWCUT CIRCUIT BREAKER "AF" - INDICATES AMPERE FRAME SIZE "AT" - INDICATES AMPERE TRIP SETTING
**AF **AT	SWITCH AND FUSE "400A" - INDICATES AMPERE SWITCH SIZE "300A" - INDICATED AMPERE FUSE SIZE
	SYSTEM GROUND OR EQUIPMENT GROUND
LA	SYSTEM GROUND OR EQUIPMENT GROUND
BPS	PRIMARY DISCONNECT SWITCH (BOLTED PRESSURE TYPE)
	AUTOMATIC TRANSFER SWITCH
100Y	FEEDER SIZE TAG SYMBOL, REFER TO "LEGEND OFFEEDER SIZE"
K	KIRK KEY INTERLOCK
SPD	TRANSIENT VOLTAGE SURGE SUPPRESSION TO PROTECT LL, UN, NH, LG

WIRING DEVICES SYMBOLS

IDENTIFIER	DESCRIPTION
3 AF	DUPLEX RECEPTACLE - GROUNDING TYPE - MTD 18" AFF UON NUMERAL INDICATES CIRCUIT NUMBER. "AF" INDICATES ARC FLASH TYPE.
	DUPLEX RECEPTACLE - GROUND FAULT INTERRUPTING TYPE - MTD 18" AFF UON
	DUPLEX RECEPTACLE - GROUNDING TYPE - MTD AT 42" AFF OR 6" ABOVE COUNTER TOP OR BACK SPLASH WHERE EXISTENT.
	DUPLEX RECEPTACLE - GROUND FAULT INTERRUPTING TYPE - MTD 42" AFF OR 6" ABOVE COUNTER TOP OR BACK SPLASH WHERE EXISTENT.
a	DUPLEX RECEPTACLE - TOP HALF SWITCHED - MTD AT 18" AFF UON. "a" INDICATES SWITCH TO DEVICE CONTROL RELATIONSHIP.
C	DUPLEX RECEPTACLE - ISOLATED GROUND TYPE - MTD AT 18" AFF UON. "C" INDICATES MTD 42" AFF OR 6" ABOVE COUNTER.
C	QUAD RECEPTACLE - GROUNDING TYPE - MTD AT 18" AFF UON. "C" INDICATES MTD 42" AFF OR 6" ABOVE COUNTER. "IG" INDICATES ISOLATED GROUND
	FLOOR OUTLET BOX WITH DUPLEX RECEPTACLE; REFER TO SPECIFICATIONS.
	FLOOR OUTLET BOX WITH QUAD RECEPTACLE; REFER TO SPECIFICATIONS.
	CEILING MTD BOX WITH DUPLEX RECEPTACLE; REFER TO SPECIFICATIONS.
X	SPECIAL PURPOSE RECEPTACLE - "A" INDICATES TYPE AS SHOWN ON DRAWINGS OR IN SPECIFICATIONS.
	SPECIAL PURPOSE RECEPTACLE - FLOOR OUTLET BOX - "A" INDICATES TYPE AS SHOWN ON DRAWINGS OR IN SPECIFICATIONS.
PP	POWER POLE; REFER TO SPECIFICATIONS AND DRAWINGS FOR RECEPTACLE CONFIGURATION.
	PLUGMOLD STRIP WITH GROUNDING RECEPTACLES. SEE SPECIFICATIONS.
	WIREMOLD WITH DUPLEX GROUNDING RECEPTACLES. SEE SPECIFICATIONS.
FB	FLOOR MTD DEVICE(S) IN OUTLET BOX(ES) OR A POKE-THRU UNIT. REFER TO DWG. NOTES FOR NUMBER AND TYPE OF DEVICES.
USB	COMBINATION USB CHARGER AND GROUNDING TYPE DUPLEX RECEPTACLE - MTD 18" AFF UON. INSTALL IN SINGLE GANG DEEP BACKBOX. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
	SEMI-FLUSH WALL MTD, 120 VOLT, 3 WIRE SYNCHROUNOUS, 12/24 HOUR ANALOG FACED CLOCK - INTERCONNECT TO THE NEAREST RECEPTACLE CIRCUIT

CIRCUITRY, RACEWAY AND FEEDERS SYMBOLS

IDENTIFIER	DESCRIPTION
LP2A-1,3,5	HOMERUN TO PANELBOARD 'LP2A' CIRCUIT # 1,3,5.
	RACEWAY CONCEALED IN CEILING OR WALLS, OR EXPOSED IN UNFINISHED AREAS
	RACEWAY CONCEALED IN FLOOR SLAB
	FLEXIBLE RACEWAY; SIZE AS REQUIRED
	CONDUIT UP
	CONDUIT DOWN
	CABLE TRAY

GENERAL SYMBOLS

IDENTIFIER	DESCRIPTION
XXX XX	EQUIPMENT TAG EQUIPMENT NUMBER
XXX X-XXX	DETAIL TAG/CALL OUT TAG SHEET NUMBER
X	KEYED NOTE

TYP. DEVICE MOUNTING HEIGHT

RECEPTACLES (OFFICE AREA)	18" AFF
RECEPTACLES (UON)	36" AFF
LIGHT SWITCHES	48" AFF
DISCONNECT SWITCHES	NEC 404.8(A)
TELEPHONE OUTLETS	18" AFF
TELEPHONE OUTLET (WALL MTD)	48" AFF
COMPUTER OUTLETS	18" AFF
CLOCK OUTLETS	7'-6" AFF
FIRE ALARM PULL STATION	48" AFF
FIRE ALARM AUDIO/VISUAL ALARM	80" AFF
EXIT LIGHTS (WALL MTD)	1' ABOVE DOOR
EMERGENCY LIGHTS (WALL MTD)	7'-6" AFF
TV OUTLETS	18" AFF
AUDIO/VIDEO OUTLETS	18" AFF
MICROPHONE OUTLETS	18" AFF
PA ANNUNCIATOR PANEL	48" AFF
WELDING OUTLETS	36" AFF

NOTE: DIMENSIONS ARE TO DEVICE CENTERLINE UNLESS NOTED OTHERWISE

BUILDING GROUNDING GRID

IDENTIFIER	DESCRIPTION
G	GROUNDING CABLE EXPOSED
G	GROUNDING CABLE BURIED
	LIGHTNING PROTECTION ROD
	GROUND ROD
	EXOTHERMIC BONDING CONNECTION
	BOLTED BONDING CONNECTION

EQUIPMENT SYMBOLS

IDENTIFIER	DESCRIPTION
30AS 20AF	FUSED DISCONNECT SWITCH. "30AT" DENOTES SWITCH SIZE, "20AF" DENOTES FUSE SIZE.
	NON-FUSED DISCONNECT SWITCH. 30 AMP, UON.
30AT 20AF	COMBINATION STARTER NON-FUSED DISCONNECT SWITCH, 3 POLE, 30A-3P SWITCH, WITH NEMA SIZE 1 STARTER UON. (FUSED STARTER DISCONNECT SWITCH INDICATED BY SWITCH AND FUSE SIZE).
	MAGNETIC MOTOR STARTER.
M	MOTOR - NUMERAL IN PLACE OF 'M' DENOTES HORSEPOWER
J CO J C	JUNCTION BOX - C CEILING MOUNTED, OD OVER DOOR, ODO OVER DOOR OUTSIDE
J	JUNCTION BOX WITH CONNECT TO DEVICE
	PUSH BUTTON FURNISHED AND INSTALLED BY OTHERS, WIRED BY THE ELECTRICAL CONTRACTOR, VERIFY EXACT REQUIREMENTS WITH ARCHITECT PRIOR TO ROUGHING-IN
PB	PULL BOX - SIZE PER ELECTRIC CODE
TC T	TIME CLOCK/TIMER. REFER TO SPECIFICATIONS.
C	CONTACTOR. REFER TO SPECIFICATIONS.
R	RELAY
VFD	VARIABLE FREQUENCY DRIVE
	EMERGENCY POWER OFF MUSHROOM TYPE PUSHBUTTON PROVIDED WITH FULL ALUMINUM GUARD, MOUNTED AT 54" A.F.F. UNLESS OTHERWISE NOTED.
	LIGHTNING PROTECTION AIR TERMINAL ("S" DENOTES SPRING BASE).
	GROUNDING BUS BAR.

PANELBOARD DESIGNATIONS

IDENTIFIER	DESCRIPTION
	SURFACE MOUNTED PANELBOARD 120/208V, 277/480V, & CONTROL PANEL RESPECTIVELY. 6'-6" AFF TO TOP.
	RECESSED/FLUSH MOUNTED PANELBOARD 120/208V, 277/480V, & CONTROL PANEL RESPECTIVELY. 6'-6" AFF TO TOP.
	SURFACE MOUNTED DISTRIBUTION PANELBOARD 120/208V, 277/480V, & CONTROL PANEL RESPECTIVELY. 6'-6" AFF TO TOP.
M	METER
	PLYWOOD BACKBOARD
T	DRY TYPE TRANSFORMER, REFER TO ONE-LINE DIAGRAM & TRANSFORMER SCHEDULE

R P 2 1 1 - 1

CIRCUIT DESIGNATION
1,2,3...A,B,C...

PANEL DESIGNATION
1,2,3...A,B,C...

FLOOR#
B = BASEMENT
1 = FIRST FLOOR
2 = SECOND FLOOR

VOLTAGE
2 = 208/120
4 = 480/277

ELECTRICAL SYSTEM
CR = CRITICAL PANEL
DP = DISTRIBUTION PANEL
E = EMERGENCY PANEL
EQ = EQUIPMENT PANEL
L = LIGHTING PANEL
LCP = LIGHTING CONTROL PANEL
LS = LIFE SAFETY PANEL
H = HVAC/MECH PANEL
MDP = MECHANICAL DISTRIBUTION PANEL
S = STANDBY PANEL
OR = OPERATING ROOM (CRITICAL) PANEL
UDP = UPS DISTRIBUTION PANEL
URP = UPS RECEPTACLE PANEL

ELECTRICAL GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE 2020 EDITION OF THE NATIONAL ELECTRICAL CODE (N.E.C.), AND ALL LOCAL AND MUNICIPAL CODES HAVING JURISDICTION.
2. ELECTRICAL CONTRACTOR (E.C.) TO VISIT SITE, ACQUAINT HIMSELF WITH EXISTING CONDITIONS AND INCLUDE ALL NECESSARY COSTS TO COMPLETE THE INSTALLATION.
3. E.C. TO FURNISH AND PAY FOR ALL PERMITS AS REQUIRED AND OBTAIN FINAL CERTIFICATE OF INSPECTION.
4. CATALOG NUMBERS ARE MEANT TO INDICATE TYPE DESIRED AND MAY BE SUBSTITUTED WITH AN APPROVED EQUAL DEVICE. "APPROVED EQUAL" MUST BE SUBMITTED TO THE ENGINEER FOR WRITTEN APPROVAL PRIOR TO INSTALLATION IN THE FIELD.
5. WORK MUST BE COORDINATED WITH ALL OTHER TRADES TO ELIMINATE CONFLICTS AND INTERFERENCES.
6. E.C. MUST PROVIDE PROPER "FIRE STOPPING" AT ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. SUBMIT EXACT MATERIALS AND METHODS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. NO EXCEPTIONS TAKEN.
7. CONTROL WIRING FOR HVAC UNITS (OTHER THAN LOW VOLTAGE POWER SUPPLY WIRING) SHALL BE DONE BY HVAC CONTRACTOR.
8. CONDUIT AND WIRE ON POWER AND LIGHTING PLANTS IS NOT SHOWN EXCEPT FOR HOMERUNS. CONTRACTOR SHALL PROVIDE ALL NECESSARY CONDUIT, BOXES, PULL BOXES, WIRING, SWITCHES AND ACCESSORIES TO INTERCONNECT THE ELECTRICAL ITEM FOR CIRCUITING AND HOMERUNS INDICATED SYMBOLICALLY ON THE DRAWINGS. SEE LEGEND-HOMERUNS DESIGNATION FOR SYMBOLOGY APPLICABLE TO ALL SYMBOLS SHOWN.
9. UON ON PLANS AND SECTIONS: ALL HEAVY LINES ARE NEW EQUIPMENT CONDUIT, WIRING, ETC. ALL LIGHT LINES ARE EQUIPMENT, CONDUIT, WIRING, ETC. BY OTHERS.
10. E.C. MUST INCLUDE IN HIS PRICE COORDINATION OF POWER POLE (FOR POWER AND VOICE/DATA) AND WALL "IN-FEED" BOXES AND "WHIPS" (SEALTITE OR EQUAL). E.C. TO PROVIDE ALL WALL BOXES FOR POWER & VOICE DATA. E.C. MUST PROVIDE POWER WHIP, EMPTY VOICE/DATA RACEWAYS WITH DRAG LINES, AND FINAL POWER CONNECTIONS TO FURNITURE SYSTEMS. FINAL COORDINATION WITH FURNITURE VENDOR IS THE RESPONSIBILITY OF THE E.C.
11. E.C. MUST INCLUDE IN HIS PRICE ALL MATERIAL AND LABOR FOR TEMPORARY POWER AND LIGHTING FOR ALL TRADES DURING DEMOLITION (IF APPLICABLE) & CONSTRUCTION.

DEMOLITION LEGEND

E	EXISTING ITEM TO REMAIN
X	EXISTING ITEM TO BE DEMOLISHED
XR	EXISTING ITEM TO BE RELOCATED
RE	EXISTING ITEM TO BE RELOCATED TO NEW LOCATION

NEW LINE TYPE
EXISTING LINE TYPE
DEMOLITION LINE TYPE

NOTES

1. ALL WIRING DEVICES, JUNCTION BOXES, EQUIPMENT AND ASSOCIATED BRANCH CIRCUITRY SHOWN WITH A LIGHTWEIGHT LINE ARE EXISTING - SHALL REMAIN AND BE MAINTAINED.
2. ALL WIRING DEVICES, JUNCTION BOXES, EQUIPMENT AND ASSOCIATED BRANCH CIRCUITRY SHOWN WITH A DOTTED LINE SHALL BE REMOVED.
3. ALL WIRING DEVICES, JUNCTION BOXES, EQUIPMENT AND ASSOCIATED BRANCH CIRCUITRY SHOWN WITH A HEAVYWEIGHT LINE IS NEW, EXISTING TO BE RELOCATED, AND/ OR EXTENDED PORTIONS OF EXISTING BRANCH CIRCUITRY INDICATED.

LIGHTING SYMBOLS

IDENTIFIER	DESCRIPTION
A a 2	CEILING OUTLET AND 2'x4' LED LIGHTING FIXTURE TYPE "A", CONTROLLED BY SWITCH "a" AND CONNECTED TO CIRCUIT NUMBER "2".
	CEILING OUTLET AND 2'x2' LED LIGHTING FIXTURE
	CEILING OUTLET AND 1'x4' LED LIGHTING FIXTURE
	LED CHANNEL/STRIP LIGHT; SUSPENDED, CHAIN-HUNG
	CEILING OUTLET AND INCANDESCENT / H.I.D. / LED LIGHT FIXTURE
	WALL OUTLET AND INCANDESCENT / H.I.D. / LED LIGHT FIXTURE
	CEILING PENDANT
	WALL SCONCE
	EMERGENCY (LIFE SAFETY) LIGHTING FIXTURE "NL" DENOTES NIGHT LIGHT "EM" DENOTED BATTERY PACK
	EXIT LIGHT FIXTURE, CEILING AND WALL MOUNT RESPECTIVELY, SHADING INDICATED DIRECTION OF FACE(S). DIRECTIONAL ARROWS AS INDICATED ON PLANS
EB	EMERGENCY WALL PACK
S 3 a	a = SINGLE POLE, 20 AMP, TOGGLE SWITCH CONTROLLING LIGHTS "a" 2 = DOUBLE POLE 3 = THREE-WAY SWITCH (20 AMP) 4 = FOUR WAY SWITCH (20 AMP) D = DIMMER SWITCH L = LOW VOLTAGE K = KEYED SWITCH M = MANUAL MOTOR SWITCH (THERMAL OVERLOAD) MC = MOMENTARY CONTACT SWITCH P = TOGGLE SWITCH WITH PILOT LIGHT (20 AMP) T = TIMER OPERATED SWITCH
OS A a	WALL MOUNTED LIGHTING CONTROL SENSOR. "A" DENOTES TYPE OF SENSOR AS SHOWN ON SENSOR SCHEDULE IN PLANS OR AS IDENTIFIED IN SPECIFICATIONS. "a" DENOTES DEVICE TO FIXTURE CONTROL RELATIONSHIP.
MS A a	CEILING MOUNTED LIGHTING CONTROL SENSOR. "A" DENOTES TYPE OF SENSOR AS SHOWN ON SENSOR SCHEDULE IN PLANS OR AS IDENTIFIED IN SPECIFICATIONS. "a" DENOTES DEVICE TO FIXTURE CONTROL RELATIONSHIP.

FIXTURE TYPE INDENTIFICATION KEY

L R 2
- SEQUENTIAL NUMERAL INDICATOR
- MOUNTING TYPE: R - RECESSED, S - SURFACE, W - WALL, T - TRACK, P - PENDANT
- LAMP TYPE: L - LED, H - HID, F - FLOURESCENT, I - INCANDESCENT

THIS SHEET IS A GENERAL LIST OF SYMBOLS AND ABBREVIATIONS ARE FOR REFERENCE ONLY AND SHALL BE USED AS A DICTIONARY TO DEFINE ITEMS INDICATED ON DRAWINGS. SYMBOL LEGEND IS SHOWN FOR GENERAL REFERENCE ONLY. THE PRESENCE OF A SYMBOL ON THIS LEGEND DOES NOT IMPLY ITS USE ON THIS PROJECT. REFER TO DRAWINGS FOR SPECIFIC SYMBOLS USED.

SCOPE OF WORK:

1. THE DEMOLITION SCOPE OF WORK IS A COMPLETE ELECTRICAL DEMOLITION OF ALL WIRING AND EQUIPMENT WITHIN THE BUILDING. THE EXISTING UTILIY CONDUITS ARE TO REMAIN.
2. THE NEW SCOPE OF WORK IS A NEW ELECTRICAL SERVICE AND DISTRIBUTION SYSTEM. A NEW FIRE ALARM SYSTEM AND LIGHTING SYSTEM. NEW LIGHTING FIXTURES AND CONTROLS, RECEPTACLES, POWER TO EQUIPMENT AND FIRE ALARM DEVICES.

NOTE: THIS SCOPE OF WORK DESCRIPTION IS PROVIDED TO GIVE AN OVERALL "MACRO" DESCRIPTION OF THIS PROJECT. CONTRACTOR IS RESPONSIBLE TO REVIEW ALL ENGINEERING AND ARCHITECTURAL DRAWINGS AND VISIT THE SITE IF NEEDED, PRIOR TO SUBMISSION OF BID. REFER TO SPECIFICATIONS FOR FURTHER SCOPE OF WORK. IF CONFLICTS ARISE, CONTACT DESIGN ENGINEER BEFORE FABRICATION.

DRAWING LIST ISSUANCE

DWG #	TITLE
E-001	ELECTRICAL LEGEND
E-100	ELECTRICAL SITE PLAN
E-150	ELECTRICAL FIRST FLOOR PLAN
E-201	ELECTRICAL FIRST FLOOR LIGHTING PLAN-LEFT
E-202	ELECTRICAL FIRST FLOOR LIGHTING PLAN-RIGHT
E-210	ELECTRICAL MEZZANINE LIGHTING PLAN
E-301	ELECTRICAL FIRST FLOOR POWER PLAN-LEFT
E-302	ELECTRICAL FIRST FLOOR POWER PLAN-RIGHT
E-303	ELECTRICAL MEZZANINE POWER PLAN
E-350	ELECTRICAL PANTRY PART PLAN
E-400	ELECTRICAL RISER
E-500	ELECTRICAL SCHEDULES
E-510	ELECTRICAL MECHANICAL SCHEDULE
E-600	ELECTRICAL DETAILS SHEET 1 OF 2
E-610	ELECTRICAL DETAILS SHEET 2 OF 2
ED-100	ELECTRICAL DEMOLITION - FIRST FLOOR
ED-101	ELECTRICAL DEMOLITION - MEZZANINE

TOWN OF WAYLAND

8 ANDREW AVENUE.
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SELECTIVE INTERIOR DEMOLITION

DAI DiGIORGIO ASSOCIATES INCORPORATED
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PORTLAND, ME 04103
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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
1	08/31/2022	BID SET
	10/05/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
ELECTRICAL LEGEND

DRAWN BY: RDJ
CHECKED BY: RDM
SCALE: As indicated
PROJECT NO.: 21-125-2125.04

SEAL:

DRAWING NO.:
E-001

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/21-125-2125.04 - Wayland Senior Center - Elec.rvt

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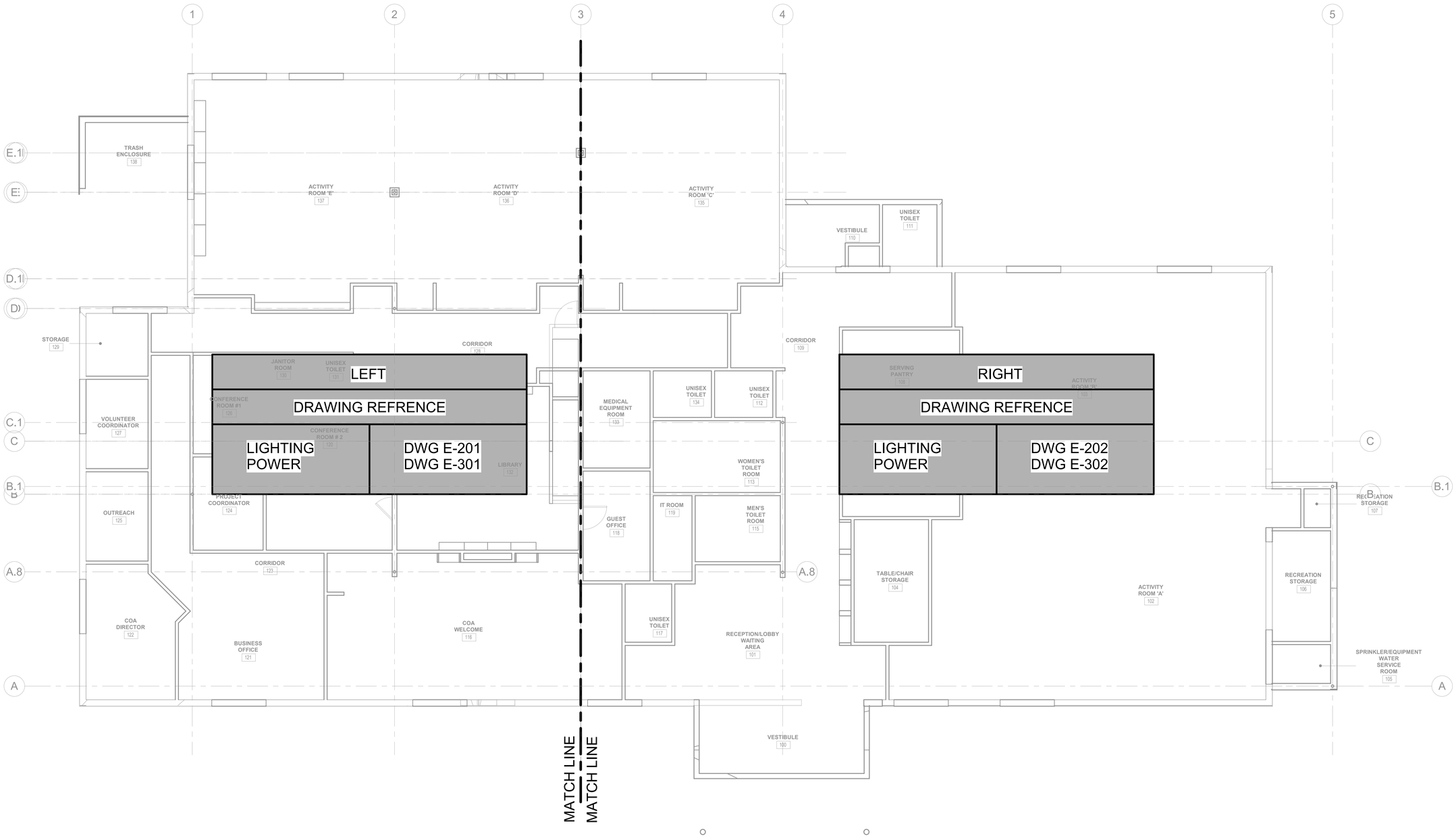

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
	10/05/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
ELECTRICAL FIRST FLOOR PLAN

DRAWN BY: JMH
CHECKED BY: RDM
SCALE: As indicated
PROJECT NO.: 21-125-2125.04

SEAL:

DRAWING NO.:
E-150

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/21-125-2125.04 - Wayland Senior Center - Elec.rvt

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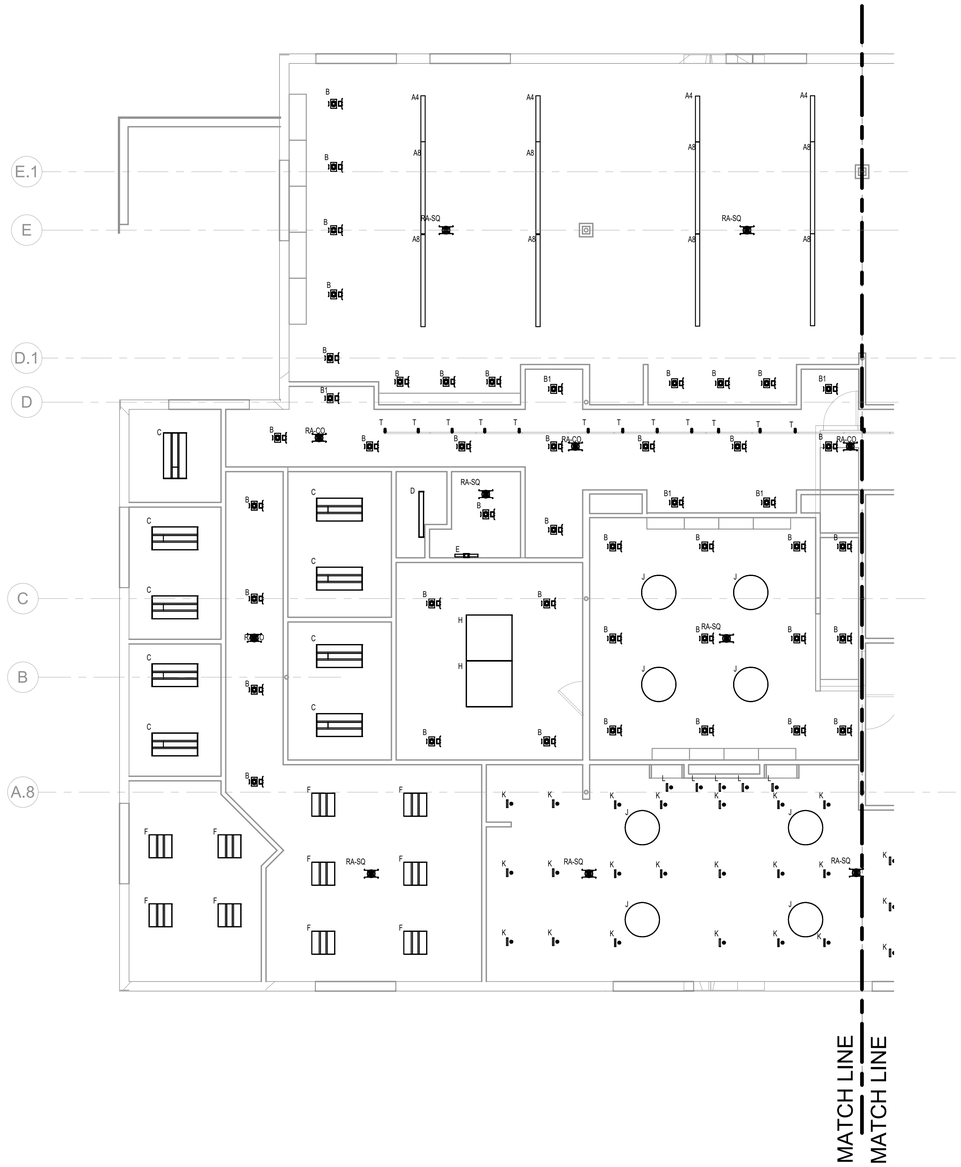

GENERAL NOTES:

1. THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL LIGHTING FIXTURES COMPLETE WITH MOUNTING ACCESSORIES TO MEET JOB REQUIREMENTS.
2. THE ELECTRICAL CONTRACTOR SHALL VERIFY FIXTURE MOUNTING AND LOCATION AGAINST PLANS, ELEVATIONS AND DETAIL DRAWINGS. EXACT LOCATION OF ALL FIXTURES SHALL BE CONFIRMED WITH THE ARCHITECT PRIOR TO ROUGHING IN.
3. SERIES FIXTURES SHALL SATISFY LENGTHS AS SHOWN ON THE DRAWINGS.
4. FIXTURE LETTERS SHOWN ON A CONTINUOUS ROW OF FIXTURES SHALL BE TYPICAL FOR THAT ROW UNLESS OTHERWISE NOTED.
5. ALL FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE, INDEPENDENT OF HUNG CEILINGS.
6. ALL LED FIXTURES ARE TO BE STANDARD COOL WHITE COLOR, 4100K UNLESS OTHERWISE SPECIFIED.
7. ALL FEEDER AND BRANCH CIRCUIT WIRING SHALL COMPLY WITH THE LATEST ADOPTED ADDITION OF THE NEC.

NUMBERED NOTES:

1 xxx

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
	10/05/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
ELECTRICAL FIRST FLOOR LIGHTING PLAN-LEFT

DRAWN BY: JMH	SEAL:
CHECKED BY: RDM	
SCALE: As indicated	
PROJECT NO.: 21-125-2125.04	

DRAWING NO.:
E-201

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/21-125-2125.04 - Wayland Senior Center - Elec.rvt

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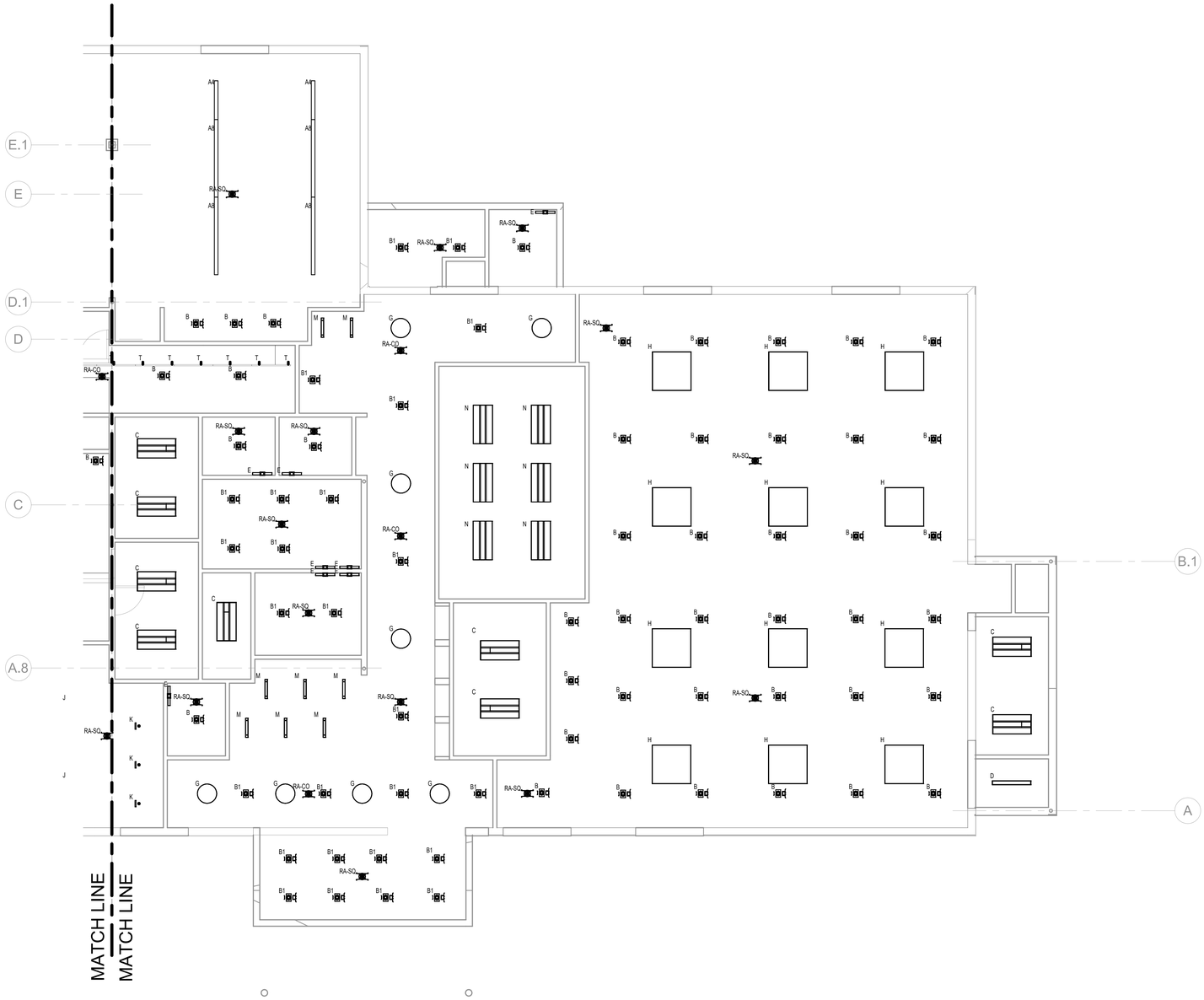

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
	10/05/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
ELECTRICAL FIRST FLOOR LIGHTING PLAN-RIGHT

DRAWN BY: JMH	SEAL:
CHECKED BY: RDM	
SCALE: As indicated	
PROJECT NO.: 21-125-2125.04	

DRAWING NO.:
E-202

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/21-125-2125.04 - Wayland Senior Center - Elec.rvt

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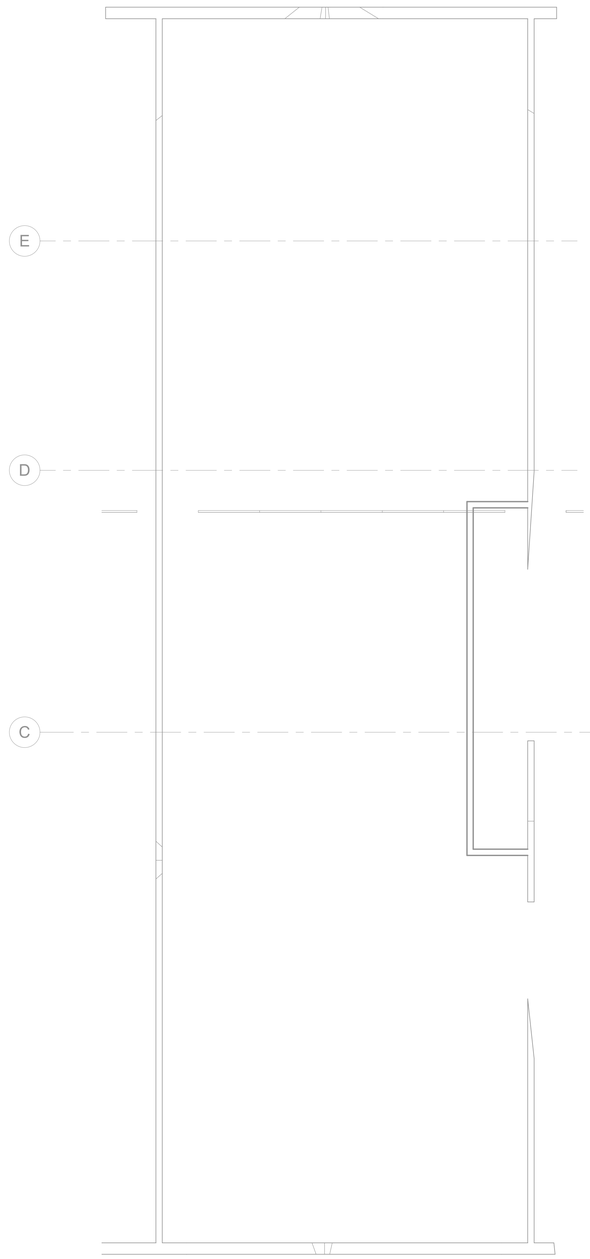

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
	10/05/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
ELECTRICAL MEZZANINE LIGHTING PLAN

DRAWN BY: JMH
CHECKED BY: RDJ
SCALE: 1/4" = 1'-0"
PROJECT NO.: 21-125-2125.04

SEAL:

DRAWING NO.:
E-210

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/21-125-2125.04 - Wayland Senior Center - Elec.rvt

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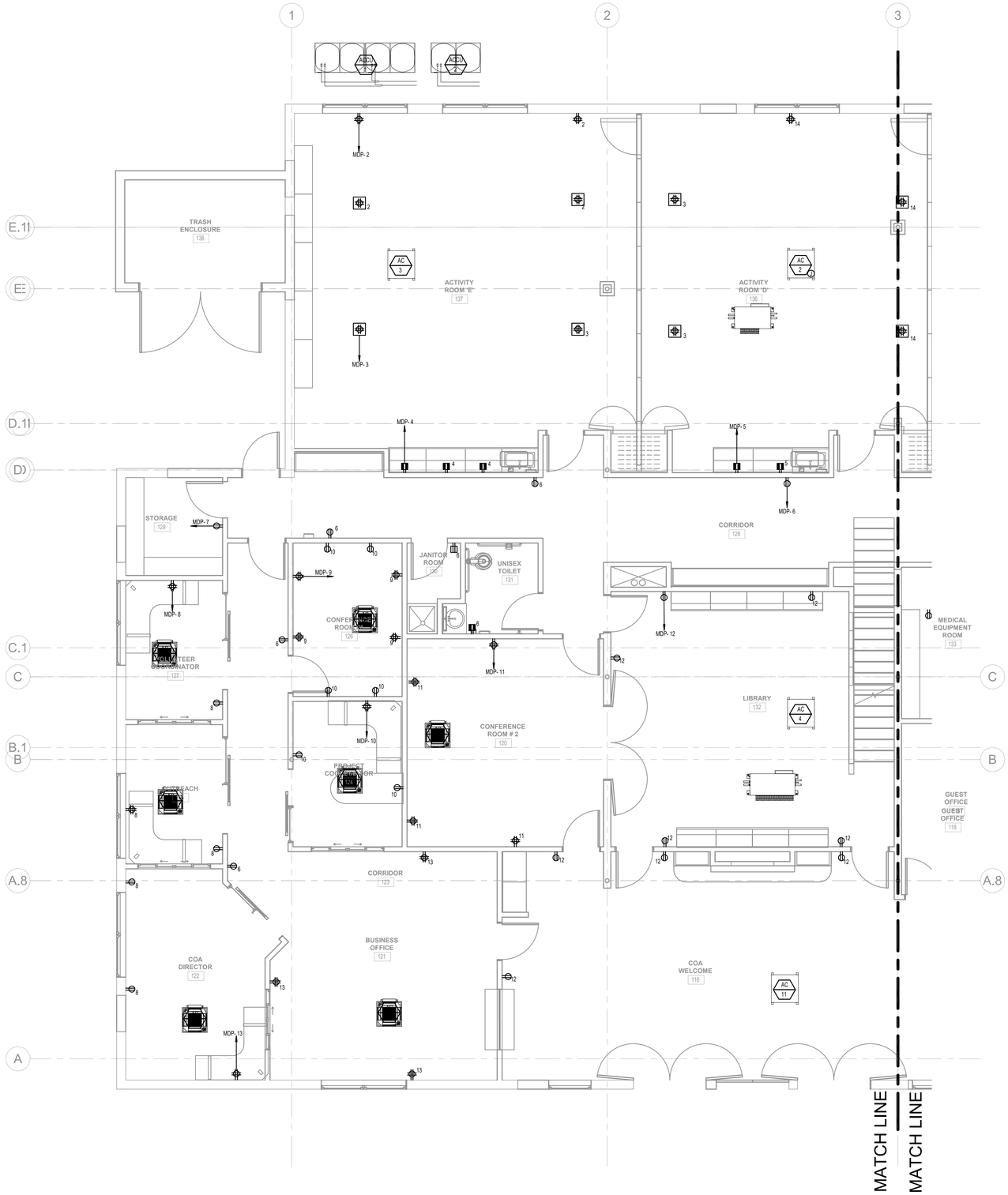

GENERAL NOTES:

1. AS PART OF THE ELECTRICAL DRAWING PACKAGE, REFER TO MANUFACTURER APPROVED MANUAL/DRAWINGS FOR ALL INSTALLATION REQUIREMENTS AND PLACEMENT OF EQUIPMENT. ALL RACEWAYS, JUNCTION BOXES, CONDUITS, SWITCHED, POWER RELAY'S AND DEVICES TO BE PROVIDED AND INSTALLED BY CUSTOMER'S ELECTRICAL CONTRACTOR.
2. ALL CONDUITS OR CABLE DUCTS MUST BE SUITABLY SEALED AND PROTECTED TO KEEP THEM CLEAN AND DRY. PROVIDE ADEQUATE CLEARANCE FOR TYPICAL CONDUIT RADIUS OF SIX TIMES THE DIAMETER. CONDUIT BEND SHALL NOT EXCEED 270 DEGREES PER CABLE RUN. ROUTE ALL ROOM PENETRATIONS AS PERPENDICULAR TO THE ISOCENTER AS POSSIBLE TO AVOID RADIATION SCATTER. VERIFY ALL ROOM PENETRATIONS WITH THE PHYSICIST OF RECORD.
3. PROVIDE GROUNDING LOOP AND CONNECT TO EXISTING BUILDING GROUNDING SYSTEM IF THE SYSTEM EXISTS.
4. MINIMUM WIRE SIZE SHALL BE NUMBER 12 AWG FOR POWER AND LIGHTING CIRCUITS AND NUMBER 14 AWG FOR CONTROL WIRING. 120-VOLT BRANCH CIRCUITS OF MORE THAN 100 FEET AND 277-VOLT CIRCUITS OF MORE THAN 150 FEET FROM CENTER OF LOAD TO PANEL SHALL BE NO. 10 AWG.

NUMBERED NOTES:

1. XXXXXXX
2. XXXXXXXXX

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
	10/05/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
ELECTRICAL FIRST FLOOR POWER PLAN-LEFT

DRAWN BY: JMH	SEAL:
CHECKED BY: RDJ	
SCALE: 1/4" = 1'-0"	
PROJECT NO.: 21-125-2125.04	

DRAWING NO.:
E-301

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/21-125-2125.04 - Wayland Senior Center - Elec.rvt

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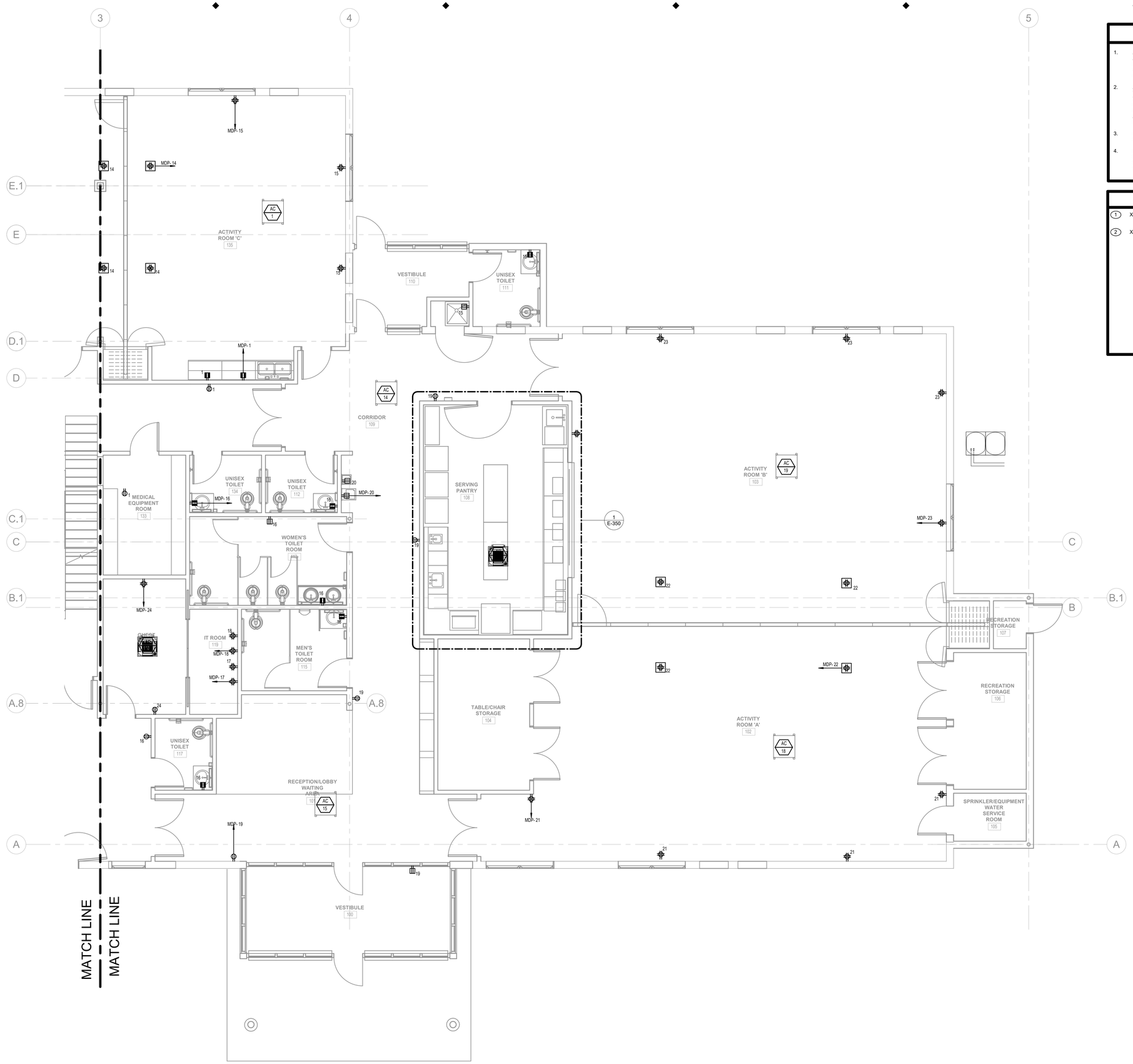

GENERAL NOTES:

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NUMBERED NOTES:

1. XXXXXXX
2. XXXXXXXXX

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
	10/05/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
ELECTRICAL FIRST FLOOR POWER PLAN-RIGHT

DRAWN BY: JMH	SEAL:
CHECKED BY: RDJ	
SCALE: 1/4" = 1'-0"	
PROJECT NO.: 21-125-2125.04	

DRAWING NO.:
E-302

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/21-125-2125.04 - Wayland Senior Center - Elec.rvt

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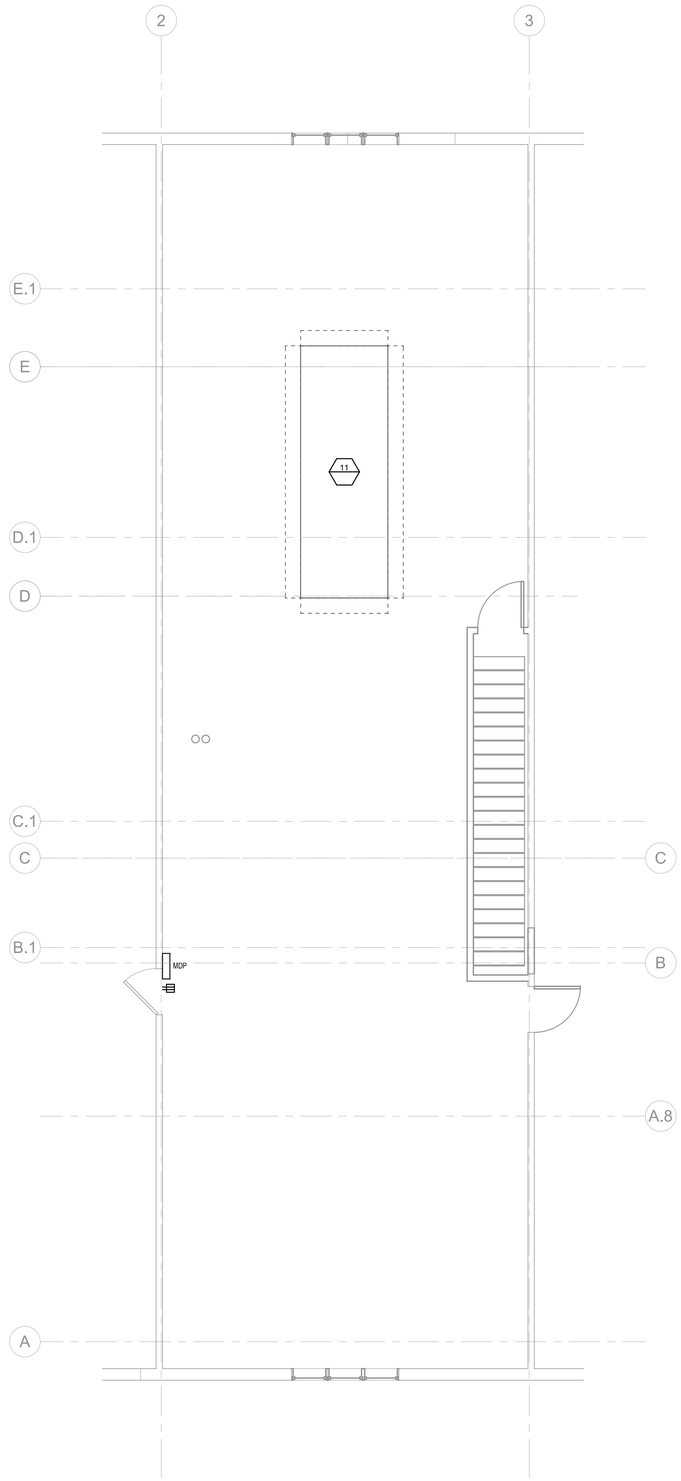

GENERAL NOTES:

1. AS PART OF THE ELECTRICAL DRAWING PACKAGE, REFER TO MANUFACTURER APPROVED MANUAL/DRAWINGS FOR ALL INSTALLATION REQUIREMENTS AND PLACEMENT OF EQUIPMENT. ALL RACEWAYS, JUNCTION BOXES, CONDUITS, SWITCHED, POWER RELAY'S AND DEVICES TO BE PROVIDED AND INSTALLED BY CUSTOMER'S ELECTRICAL CONTRACTOR.
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NUMBERED NOTES:

1. XXXXXXX
2. XXXXXXXXX

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
	10/05/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
ELECTRICAL MEZZANINE POWER PLAN

DRAWN BY: JMH	SEAL:
CHECKED BY: RDM	
SCALE: 1/4" = 1'-0"	
PROJECT NO.: 21-125-2125.04	

DRAWING NO.:
E-303

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/21-125-2125.04 - Wayland Senior Center - Elec.rvt

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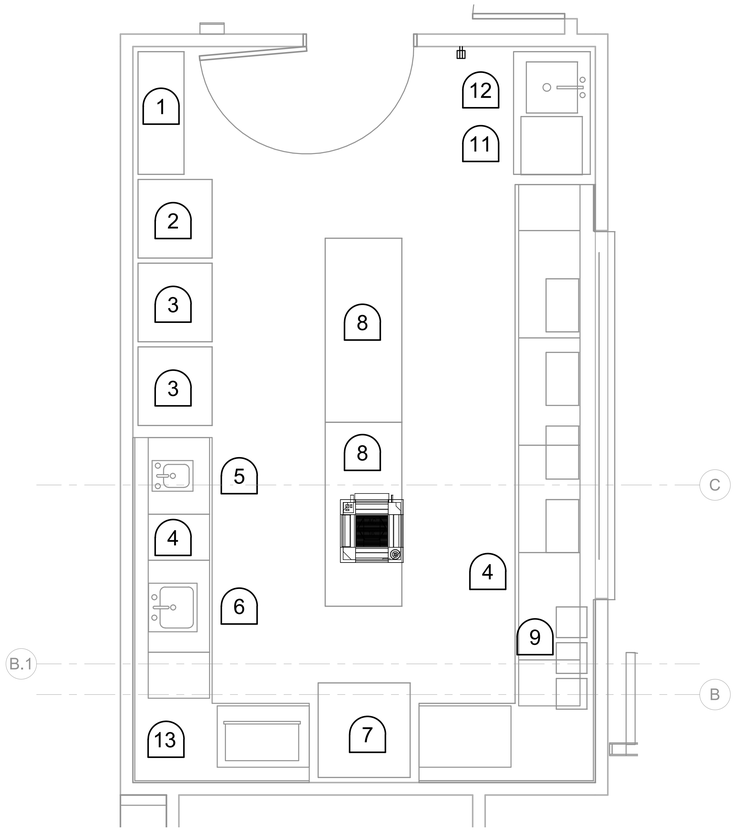

1 ELECTRICAL PANTRY PART PLAN
SCALE: 1/2" = 1'-0"

GENERAL NOTES:

1. AS PART OF THE ELECTRICAL DRAWING PACKAGE, REFER TO MANUFACTURER APPROVED MANUAL/DRAWINGS FOR ALL INSTALLATION REQUIREMENTS AND PLACEMENT OF EQUIPMENT. ALL RACEWAYS, JUNCTION BOXES, CONDUITS, SWITCHED, POWER RELAY'S AND DEVICES TO BE PROVIDED AND INSTALLED BY CUSTOMER'S ELECTRICAL CONTRACTOR.
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NUMBERED NOTES:

1. XXXXXXX
2. XXXXXXXXX

EQUIPMENT SCHEDULE

ITEM NO	QTY	EQUIPMENT CATEGORY	EQUIPMENT CHARACTERISTICS: VOLTS	PHASE	HP	AMPS	KW	ELEC. AFF (IN)	DIRECT	PLUG	NEMA	VOLT	PH	PANEL-CIRCUIT	CIRCUIT BREAKER	FEEDER	CONNECTIONS						NEMA	REMARKS
1	1	STORAGE SHELVING																						NO ELECTRICAL CONNECTION REQUIRED.
2	1	REACH-IN FREEZER	120V	1	4/5HP	7A			X	5-15P	120V	1		20A-1P	2#12 & 1#12G,3/4C		X					5-20R		FIELD CORDINATE ELECTRICAL CONNECTION AND NEMA TYPE REQUIRED.
3	1	REACH-IN REFRIGERATOR	120V	1	1/5HP	3A			X	5-15P	120V	1		20A-1P	2#12 & 1#12G,3/4C		X					5-20R		FIELD CORDINATE ELECTRICAL CONNECTION AND NEMA TYPE REQUIRED.
	1	REACH-IN REFRIGERATOR	120V	1	1/5HP	3A			X	5-15P	120V	1		20A-1P	2#12 & 1#12G,3/4C		X							FIELD CORDINATE ELECTRICAL CONNECTION AND NEMA TYPE REQUIRED.
4	LOT	MILLWORK COUNTERS																						NO ELECTRICAL CONNECTION REQUIRED.
5	1	HAND SINK, DROP-IN																						NO ELECTRICAL CONNECTION REQUIRED.
6	1	ONE COMPARTMENT SINK, DROP-IN																						NO ELECTRICAL CONNECTION REQUIRED.
7	1	OVEN, ELECTRIC W/ VENTLESS HOOD	208V	3		31A	11.2KW				208V	3												FIELD CORDINATE ELECTRICAL CONNECTION AND NEMA TYPE REQUIRED.
	1	VENTLESS HOOD	120V	1		1A			X	5-15P	120V	1		20A-1P	2#12 & 1#12G,3/4C		X							FIELD CORDINATE ELECTRICAL CONNECTION AND NEMA TYPE REQUIRED.
8	2	TABLES																						NO ELECTRICAL CONNECTION REQUIRED.
9	LOT	BEVERAGES																						FIELD CORDINATE ELECTRICAL CONNECTION AND NEMA TYPE REQUIRED.
10	4	CHAFING DISHES																						NO ELECTRICAL CONNECTION REQUIRED.
11	1	UNDERCOUNTER DISHWASHER	208V	1		24.2A					208V	1		30A-2P	2#10 & 1#10G,3/4C									FIELD CORDINATE ELECTRICAL CONNECTION AND NEMA TYPE REQUIRED. 30A MOCP PER MANUFACTUER.
12	1	DISHTABLE W/ PRE-RINSE FAUCET																						NO ELECTRICAL CONNECTION REQUIRED.
13	1	MICROWAVE OVEN																						
14	-	SPARE NUMBER																						
15	-	SPARE NUMBER																						

NOTES:

1. ELECTRICAL CONTRACTOR SHALL VERIFY EXACT PLUG CONFIGURATION WITH EQUIPMENT MANUFACTURER.
2. ALL WIRING PER MANUFACTUERS RECOMMENDATIONS.
3. COORDINATE ALL REQUIREMNETS WITH FOOD SERVICE EQUIPMENT DRAWINGS AND SPECIFICATIONS.
4. COORDINATE ALL EQUIPMENT LOCATIONS WITH ARCHITECT

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SELECTIVE INTERIOR DEMOLITION

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A LiRo Group Company

ARCHITECTURE
PLANNING
INTERIOR DESIGN
ENGINEERING

BOSTON
529 MAIN STREET, SUITE 3303
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PORTLAND
570 WASHINGTON AVE.
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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
	10/05/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
ELECTRICAL PANTRY PART PLAN

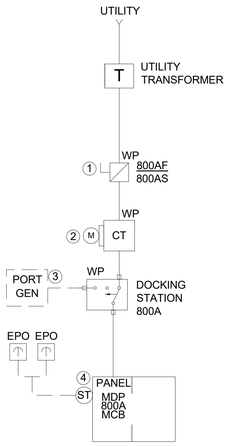
DRAWN BY: Author
CHECKED BY: Checker
SCALE: As indicated
PROJECT NO.: 21-125-2125.04

SEAL:

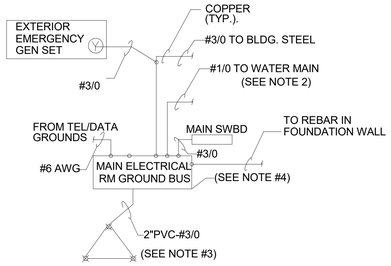
DRAWING NO.:
E-350

PROJECT LOCATION:
IBM 360://Town of Wayland On Call TASK ORDER#4/21-125-2125.04 - Wayland Senior Center - Elec.rvt

DATE & TIME PRINTED: 10/5/2022 2:58:05 PM



GROUNDING DETAIL



GROUNDING NOTES:

1. PROVIDE BUILDING GROUNDING SYSTEM PER SPECIFICATION.
2. PROVIDE BOND AROUND WATER METER AND BOND TO FIRE PROTECTION WATER SERVICE.
3. GROUNDING COUNTERPOISE SHALL BE THREE 10' LONG ¾" COPPER RODS AT 10' SPACING.
4. GROUND BUSES SHALL BE 12" MINIMUM SIZE TO ACCOMMODATE CONNECTIONS SHOWN.
5. ALL GROUND CONDUCTORS SHALL BE IN EMT WITH GROUND BUSHINGS AT TERMINATIONS.

GENERAL NOTES:

1. CONTRACTOR TO COORDINATE WITH UTILITY FOR ALL REQUIREMENTS.
2. PRIOR TO PURCHASE AND INSTALLATION E.C. SHALL PERFORM SHORT CIRCUIT, COORDINATION AND ARC FLASH STUDIES. REFER TO SPECIFICATION FOR ADDITIONAL SCOPE OF WORK.

KEYED NOTES:

1. PROVIDE SERVICE ENTRANCE RATED WEATHERPROOF DISCONNECT.
2. COORDINATE WITH UTILITY COMPANY FOR METER AND CT CABINET REQUIREMENTS.
3. PORTABLE FUTURE GENERATOR PROVIDED BY OTHERS.
4. PANEL MDP TO HAVE SHUNT TRIP MAIN BREAKER. COORDINATE EPO NUMBER AND LOCATION WITH THE FIRE DEPARTMENT.

GENERAL NOTES:

1. AS PART OF THE ELECTRICAL DRAWING PACKAGE, REFER TO MANUFACTURER APPROVED MANUAL/DRAWINGS FOR ALL INSTALLATION REQUIREMENTS AND PLACEMENT OF EQUIPMENT. ALL RACEWAYS, JUNCTION BOXES, CONDUITS, SWITCHED, POWER RELAY'S AND DEVICES TO BE PROVIDED AND INSTALLED BY CUSTOMER'S ELECTRICAL CONTRACTOR.
2. ALL CONDUITS OR CABLE DUCTS MUST BE SUITABLY SEALED AND PROTECTED TO KEEP THEM CLEAN AND DRY. PROVIDE ADEQUATE CLEARANCE FOR TYPICAL CONDUIT RADIUS OF SIX TIMES THE DIAMETER. CONDUIT BEND SHALL NOT EXCEED 270 DEGREES PER CABLE RUN. ROUTE ALL ROOM PENETRATIONS AS PERPENDICULAR TO THE ISOCENTER AS POSSIBLE TO AVOID RADIATION SCATTER. VERIFY ALL ROOM PENETRATIONS WITH THE PHYSICIST OF RECORD.
3. PROVIDE GROUNDING LOOP AND CONNECT TO EXISTING BUILDING GROUNDING SYSTEM IF THE SYSTEM EXISTS.
4. MINIMUM WIRE SIZE SHALL BE NUMBER 12 AWG FOR POWER AND LIGHTING CIRCUITS AND NUMBER 14 AWG FOR CONTROL WIRING. 120-VOLT BRANCH CIRCUITS OF MORE THAN 100 FEET AND 277-VOLT CIRCUITS OF MORE THAN 150 FEET FROM CENTER OF LOAD TO PANEL SHALL BE NO. 10 AWG.

NUMBERED NOTES:

1. XXXXXXX
2. XXXXXXXXX

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
	10/05/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
ELECTRICAL RISER

DRAWN BY: JMH
CHECKED BY: RDJ
SCALE: As indicated
PROJECT NO.: 21-125-2125.04

SEAL:

DRAWING NO.:
E-400

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/21-125-2125.04 - Wayland Senior Center - Elec.rvt

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SINGLE PHASE CIRCUIT SCHEDULE

COPPER CONDUCTORS ABOVE GROUND (SEE NOTES)			
CIRCUIT SYMBOL	CONDUCTORS	SIZE CONDUIT	CIRCUIT OR OVERCURRENT RATING
1P	1#12,1#12N.&1#12G.	1/2"	15A.,1P.
1T	2#12&1#12G.	1/2"	15A.,2P.
1N	2#12,1#12N.&1#12G.	1/2"	15A.,2P
2P	1#12,1#12N.&1#12G.	1/2"	20A.,1P
2T	2#12&1#12G.	1/2"	20A.,2P.
2N	2#12,1#12N.&1#12G.	1/2"	20A.,2P.
3P	1#10,1#10N.&1#10G.	1/2"	30A.,1P.
3T	2#10&1#10G.	1/2"	30A.,2P.
3N	2#10,1#10N.&1#10G.	1/2"	30A.,2P
4P	1#8,1#8N.&1#10G.	3/4"	40A.,1P.
4T	2#8&1#10G.	3/4"	40A.,2P.
4N	2#8,1#8N.&1#10G.	3/4"	40A.,2P
5P	1#6,1#6N.&1#10G.	3/4"	50A.,1P.
5T	2#6&1#10G.	3/4"	50A.,2P.
5N	2#6,1#6N.&1#10G.	3/4"	50A.,2P
6P	1#6,1#6N.&1#10G.	3/4"	60A.,1P.
6T	2#6&1#10G.	3/4"	60A.,2P.
6N	2#6,1#6N.&1#10G.	3/4"	60A.,2P
7P	1#4,1#4N.&1#8G.	1"	70A.,1P.
7T	2#4&1#8G.	1"	70A.,2P.
7N	2#4,1#4N.&1#8G.	1"	70A.,2P
8P	1#3,1#3N.&1#8G.	1 1/4"	80A.,1P.
8T	2#3&1#8G.	1 1/4"	80A.,2P.
8N	2#3,1#3N.&1#8G.	1 1/4"	80A.,2P

NOTES:

UNLESS OTHERWISE INDICATED, CONDUCTOR SIZING SHALL MATCH THE SIZE INDICATED ABOVE FOR THE APPLICABLE OVERCURRENT DEVICE. PROVIDE LARGER CIRCUIT WHERE INDICATED.

PROVIDE MINIMUM SIZE CONDUIT INDICATED IN THE SPECIFICATIONS OR ON THE DRAWINGS.

MINIMUM SIZE CONDUIT UNDERGROUND IS ONE STANDARD ELECTRICAL SIZE LARGER THAN INDICATED IN THE SCHEDULE. PROVIDE LARGER CONDUIT WHERE SPECIFICALLY INDICATED OTHERWISE.

PROVIDE TYPE OF RACEWAY OR CABLE AS INDICATED IN SPECIFICATION OR ON DRAWINGS.

THREE PHASE CIRCUIT SCHEDULE

COPPER CONDUCTORS ABOVE GROUND (SEE NOTES)					
CIRCUIT SYMBOL	CONDUCTORS IN EACH CONDUIT 3 PHASE, 3 WIRE & GROUND	SIZE CONDUIT	CONDUCTORS IN EACH CONDUIT 3 PHASE, 4 WIRE & GROUND	SIZE CONDUIT	CIRCUIT OR OVERCURRENT RATING 3POLE
1	3#12&1#12G.	3/4"	4#12&1#12G.	3/4"	15A.
2	3#12&1#12G.	3/4"	4#12&1#12G.	3/4"	20A.
2/5	3#10&1#10G.	3/4"	4#10&1#10G.	3/4"	25A.
3	3#10&1#10G.	3/4"	4#10&1#10G.	3/4"	30A.
3/5	3#8&1#10G.	3/4"	4#8&1#10G.	3/4"	35A.
4	3#8&1#10G.	3/4"	4#8&1#10G.	3/4"	40A.
4/5	3#6&1#10G.	3/4"	4#6&1#10G.	1"	45A.
5	3#6&1#10G.	3/4"	4#6&1#10G.	1"	50A.
6	3#6&1#10G.	3/4"	4#6&1#10G.	1"	60A.
7	3#4&1#8G.	1"	4#4&1#8G.	1 1/4"	70A.
8	3#3&1#8G.	1 1/4"	4#3&1#8G.	1 1/4"	80A.
9	3#3&1#8G.	1 1/4"	4#3&1#8G.	1 1/4"	90A.
10	3#1&1#6G.	1 1/2"	4#1&1#6G.	1 1/2"	100A.
11	3#1&1#6G.	1 1/2"	4#1&1#6G.	1 1/2"	110A.
12	3#1&1#6G.	1 1/2"	4#1&1#6G.	1 1/2"	125A.
15	3#1/0&1#6G.	1 1/2"	4#1/0&1#6G.	2"	150A.
17	3#2/0&1#6G.	1 1/2"	4#2/0&1#6G.	2"	175A.
20	3#3/0&1#6G.	2"	4#3/0&1#6G.	2"	200A.
22	3#4/0&1#4G.	2 1/2"	4#4/0&1#4G.	2 1/2"	225A.
25	3#250KCMIL&1#4G.	2 1/2"	4#250KCMIL&1#4G.	3"	250A.
30	3#350KCMIL&1#4G.	3"	4#350KCMIL&1#4G.	3"	300A.
35	3#500KCMIL&1#3G.	4"	4#500KCMIL&1#3G.	4"	350A.
40	3#500KCMIL&1#3G.	4"	4#500KCMIL&1#3G.	4"	400A.
45	3#4/0&1#2G.	(2)3"	4#4/0&1#2G.	(2)3"	450A.
50	3#250KCMIL&1#2G.	(2)3"	4#250KCMIL&1#2G.	(2)3"	500A.
60	3#350KCMIL&1#1G.	(2)3"	4#350KCMIL&1#1G.	(2)3"	600A.
70	3#500KCMIL&1#1/0G.	(2)3 1/2"	4#500KCMIL&1#1/0G.	(2)4"	700A.
80	3#600KCMIL&1#1/0G.	(2)3 1/2"	4#600KCMIL&1#1/0G.	(2)4"	800A.
90	3#350KCMIL&1#2/0G.	(3)3"	4#350KCMIL&1#2/0G.	(3)3"	900A.
100	3#500KCMIL&1#2/0G.	(3)3 1/2"	4#500KCMIL&1#2/0G.	(3)3 1/2"	1000A.
120	3#600KCMIL&1#3/0G.	(3)4"	4#600KCMIL&1#3/0G.	(3)4"	1200A.
160	3#600KCMIL&1#4/0G.	(4)4"	4#600KCMIL&1#4/0G.	(4)4"	1600A.
200	3#600KCMIL&1#250KCMIL G.	(5)4"	4#600KCMIL&1#250KCMIL G.	(5)4"	2000A.
250	3#600KCMIL&1#350KCMIL G.	(6)4"	4#600KCMIL&1#350KCMIL G.	(6)4"	2500A.
300	3#500KCMIL&1#500KCMIL G.	(8)3"	4#500KCMIL&1#500KCMIL G.	(8)4"	3000A.
320	3#600KCMIL&1#500KCMIL G.	(8)4"	4#600KCMIL&1#500KCMIL G.	(8)4"	3200A.
400	3#600KCMIL&1#500KCMIL G.	(10)4"	4#600KCMIL&1#500KCMIL G.	(10)4"	4000A.

NOTES:

UNLESS OTHERWISE INDICATED, CONDUCTOR SIZING SHALL MATCH THE SIZE INDICATED ABOVE FOR THE APPLICABLE OVERCURRENT DEVICE. PROVIDE LARGER CIRCUIT WHERE INDICATED.

PROVIDE MINIMUM SIZE CONDUIT INDICATED IN THE SPECIFICATIONS OR ON THE DRAWINGS.

PROVIDE 4 WIRE CIRCUIT UNLESS DEVICE SERVED DOES NOT HAVE PROVISIONS FOR A NEUTRAL CONNECTION.
MINIMUM SIZE CONDUIT UNDERGROUND IS ONE STANDARD ELECTRICAL SIZE LARGER THAN INDICATED IN THE SCHEDULE. PROVIDE LARGER CONDUIT WHERE SPECIFICALLY INDICATED OTHERWISE.

PROVIDE TYPE OF RACEWAY OR CABLE AS INDICATED IN SPECIFICATIONS OR ON THE DRAWINGS.

THIS SCHEDULE DOES NOT INCLUDE CONDUCTOR INCREASE IN SIZE DUE TO VOLTAGE DROPS, CONTRACTOR IS RESPONSIBLE TO MEASURE OR ESTIMATE THE ROUTINGS PRIOR TO ANY INSTALLATION AND MEET THE MAXIMUM VOLTAGE DROP PERCENTAGE ALLOWED BY THE CODE. THE EQUIPMENT GROUNDING CONDUCTORS SHALL BE INCREASED PROPORTIONALLY TO THE UNGROUNDED CONDUCTORS IN SIZE TO SATISFY THE NEC REQUIREMENTS.

PANEL: MDP

LOCATION:
SUPPLIED FROM:
MOUNTING: Surface
ENCLOSURE TYPE: Type 1
BUSS MATERIAL:

VOLTS: 208Y/120 V
PHASES: 3
WIRES: 4

A.I.C. Rating:
MAIN TYPE: MCB
MAIN RATING: 800 A
MCB RATING: 800 A

Notes:

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	Receptacles RM 133, CORR GFI R...	20 A	1	0.7 kVA	1.4 kVA					1	20 A	Receptacles RM 137	2
3	Receptacles RM 136 137	20 A	1			1.4 kVA	0.5 kVA			1	20 A	Receptacles RM 137 GFI	4
5	Receptacles RM 136 GFI	20 A	1					0.4 kVA	1.3 kVA	1	20 A	Receptacles CORR 123	6
7	Receptacles RM 129	20 A	1	0.2 kVA	1.4 kVA					1	20 A	Receptacles RM 122 125	8
9	Receptacles RM 126	20 A	1			1.4 kVA	1.4 kVA			1	20 A	Receptacles RM 124 126	10
11	Receptacles RM 120	20 A	1					1.1 kVA	1.6 kVA	1	20 A	Receptacles RM 116 132	12
13	Receptacles RM 121 122	20 A	1	1.1 kVA	1.4 kVA					1	20 A	Receptacles RM 135 136	14
15	Receptacles RM 135 110 111	20 A	1			0.9 kVA	1.3 kVA			1	20 A	Receptacles BATH RMS	16
17	Receptacles IT RM	20 A	1					0.7 kVA	0.7 kVA	1	20 A	Receptacles IT RM	18
19	Receptacles CORR 109	20 A	1	0.9 kVA	0.4 kVA					1	20 A	Receptacles GFI WATER FOUNTAIN	20
21	Receptacles RM 102	20 A	1			1.4 kVA	1.4 kVA			1	20 A	Receptacles RM 102 103	22
23	Receptacles RM 103	20 A	1					1.4 kVA	0.5 kVA	1	20 A	Receptacles RM 118	24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
43													44
45													46
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65													66
67													68
69													70
71													72
73													74
75													76
77													78
79													80
81													82
83													84
			Total Load:	7560 VA		9900 VA		7740 VA					
			Total Amps:	63 A		83 A		65 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	25200 VA
				TOTAL EST. DEMAND:	17600 VA
				TOTAL CONN. CURRENT:	70 A
				TOTAL EST. DEMAND...	49 A

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ELECTRICAL SCHEDULES

DRAWN BY: JMH
CHECKED BY: RDM
SCALE: As indicated
PROJECT NO.: 21-125-2125.04

SEAL:

DRAWING NO.:
E-500

PROJECT LOCATION:

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SCHEDULE OF MECHANICAL EQUIPMENT

TAG NAME	EQUIPMENT	LOCATION	ELECTRICAL DATA																			ELECTRICAL SERVICE/CONNECTIONS												REMARKS
										DISCONNECT		DISCONNECT BY:			STARTER BY:		POWER TYPE			FIRE ALARM					CONNECTIONS									
			VOLT	PH	HZ	HP	FLA	KVA/KW	MOCP	MCA	NOT FUSED	FUSED	DIV. 23	DIV. 26	STARTER TYPE	DIV. 23	DIV. 26	EM POWER	STDBY POWER	NM POWER	DUCT SMOKE	PANEL CIRCUIT	CIRCUIT BREAKER	FEEDER	$T	$D	⊠	VFD	⊡	□	∿	⊙	D GFI,WP	
AC 1	VRF INDOOR UNIT		208V	1	60	-	-	-	15A	4.38A	N	Y	N	Y	-	N	N	N	N	Y	N	MP221-1,3	15A-2P	1T	Y	N	N	N	N	N	Y	N	N	REFER TO DETAIL D1 ON DRAWING E801
AC 2	VRF INDOOR UNIT		208V	1	60	-	-	-	15A	4.38A	N	Y	N	Y	-	N	N	N	N	Y	N	MP221-1,3	15A-2P	1T	Y	N	N	N	N	N	Y	N	N	REFER TO DETAIL D1 ON DRAWING E801
AC 3	VRF INDOOR UNIT		208V	1	60	-	-	-	15A	4.38A	N	Y	N	Y	-	N	N	N	N	Y	N	MP221-1,3	15A-2P	1T	Y	N	N	N	N	N	Y	N	N	REFER TO DETAIL D1 ON DRAWING E801
AC 4	VRF INDOOR UNIT		208V	1	60	-	-	-	15A	2.94A	N	Y	N	Y	-	N	N	N	N	Y	N	MP221-1,3	15A-2P	1T	Y	N	N	N	N	N	Y	N	N	REFER TO DETAIL D1 ON DRAWING E801
AC 5	VRF INDOOR UNIT		208V	1	60	-	-	-	-	0.24A	N	Y	N	Y	-	N	N	N	N	Y	N	MP221-1,3	15A-2P	1T	Y	N	N	N	N	N	Y	N	N	REFER TO DETAIL D1 ON DRAWING E801
AC 6	VRF INDOOR UNIT		208V	1	60	-	-	-	-	0.24A	N	Y	N	Y	-	N	N	N	N	Y	N	MP221-1,3	15A-2P	1T	Y	N	N	N	N	N	Y	N	N	REFER TO DETAIL D1 ON DRAWING E801
AC 7	VRF INDOOR UNIT		208V	1	60	-	-	-	-	0.24A	N	Y	N	Y	-	N	N	N	N	Y	N	MP221-1,3	15A-2P	1T	Y	N	N	N	N	N	Y	N	N	REFER TO DETAIL D1 ON DRAWING E801
AC 8	VRF INDOOR UNIT		208V	1	60	-	-	-	-	0.24A	N	Y	N	Y	-	N	N	N	N	Y	N	MP221-1,3	15A-2P	1T	Y	N	N	N	N	N	Y	N	N	REFER TO DETAIL D1 ON DRAWING E801
AC 9	VRF INDOOR UNIT		208V	1	60	-	-	-	-	0.28A	N	Y	N	Y	-	N	N	N	N	Y	N	MP221-1,3	15A-2P	1T	Y	N	N	N	N	N	Y	N	N	REFER TO DETAIL D1 ON DRAWING E801
AC 10	VRF INDOOR UNIT		208V	1	60	-	-	-	-	0.28A	N	Y	N	Y	-	N	N	N	N	Y	N	MP221-1,3	15A-2P	1T	Y	N	N	N	N	N	Y	N	N	REFER TO DETAIL D1 ON DRAWING E801
AC 11	VRF INDOOR UNIT		208V	1	60	-	-	-	15A	2.94A	N	Y	N	Y	-	N	N	N	N	Y	N	MP221-1,3	15A-2P	1T	Y	N	N	N	N	N	Y	N	N	REFER TO DETAIL D1 ON DRAWING E801
AC 12	VRF INDOOR UNIT		208V	1	60	-	-	-	-	0.28A	N	Y	N	Y	-	N	N	N	N	Y	N	MP221-1,3	15A-2P	1T	Y	N	N	N	N	N	Y	N	N	REFER TO DETAIL D1 ON DRAWING E801
AC 13	VRF INDOOR UNIT		208V	1	60	-	-	-	-	-	N	Y	N	Y	-	N	N	N	N	Y	N	MP221-1,3	15A-2P	1T	Y	N	N	N	N	N	Y	N	N	REFER TO DETAIL D1 ON DRAWING E801
AC 14	VRF INDOOR UNIT		208V	1	60	-	-	-	15A	1.75A	N	Y	N	Y	-	N	N	N	N	Y	N	MP221-1,3	15A-2P	1T	Y	N	N	N	N	N	Y	N	N	REFER TO DETAIL D1 ON DRAWING E801
AC 15	VRF INDOOR UNIT		208V	1	60	-	-	-	-	2.94A	N	Y	N	Y	-	N	N	N	N	Y	N	MP221-1,3	15A-2P	1T	Y	N	N	N	N	N	Y	N	N	REFER TO DETAIL D1 ON DRAWING E801
AC 16	VRF INDOOR UNIT		208V	1	60	-	-	-	15A	0.5A	N	Y	N	Y	-	N	N	N	N	Y	N			-	Y	N	N	N	N	N	Y	N	N	
AC 17	VRF INDOOR UNIT		208V	1	60	-	-	-	15A	1.75A	N	Y	N	Y	-	N	N	N	N	Y	N			-	Y	N	N	N	N	N	Y	N	N	
AC 18	VRF INDOOR UNIT		208V	1	60	-	-	-	15A	4.38A	N	Y	N	Y	-	N	N	N	N	Y	N				Y	N	N	N	N	N	Y	N	N	
AC 19	VRF INDOOR UNIT		208V	1	60	-	-	-	15A	4.28A	N	Y	N	Y	-	N	N	N	N	Y	N				Y	N	N	N	N	N	Y	N	N	
ACCU 1	VRF OUTDOOR UNIT MODULE 1		208V	3	60	-	-	-	45A	31A	N	Y	N	Y	VFD	N	N	N	N	Y	N		45A-3P		N	N	N	Y	Y	N	Y	N	N	
	VRF OUTDOOR UNIT MODULE 2		208V	3	60	-	-	-	45A	31A	N	Y	N	Y	VFD	N	N	N	N	Y	N		45A-3P		N	N	N	Y	Y	N	Y	N	N	
ACCU 2	VRF OUTDOOR UNIT		208V	3	60	-	-	-	60A	41A	N	Y	N	Y	VFD	N	N	N	N	Y	N		60A-3P		N	N	N	Y	Y	N	Y	N	N	
ACCU 3	VRF OUTDOOR UNIT		208V	3	60	-	-	-	45A	31A	N	Y	N	Y	VFD	N	N	N	N	Y	N		45A-3P		N	N	N	Y	Y	N	Y	N	N	
DOAS 1																																		

NOTES:

1. DUCT SMOKE DETECTORS SHALL BE PROVIDED FOR ALL MECHANICAL UNITS PER NFPA-90A, PROVIDE REMOTE TEST STATION WITH EACH DETECTOR. LOCATION OF TEST STATION SHALL BE ACCESSIBLE, COORDINATE WITH ARCHITECT.
2. PROVIDE FLEXIBLE CONNECTION TO EQUIPMENT, REFER TO SPECIFICATIONS.
3. FOR SINGLE MOTOR LOADS, REFER TO MOTOR BRANCH CIRCUIT SCHEDULES FOR CIRCUIT INFORMATION. FOR SINGLE POINT MIXED LOADS OR NON-MOTOR LOADS REFER TO CIRCUIT SIZE SCHEDULE FOR CIRCUIT INFORMATION.
4. CONTROLLERS AND DISCONNECT DEVICES SHALL BE NRTL RATED FOR USE WITH A DESIGN E MOTOR, WITH A HORSE POWER RATING NOT LESS THAN 1.4 TIMES THE MOTOR HORSE POWER. (REFER TO ELECTRIC CODE ARTICLE 430)
5. TWO SPEED MOTORS SHALL HAVE TWO MOTOR BRANCH CIRCUITS AND SIX POLE DISCONNECTS.
6. WHERE INDICATED PROVIDE WEATHERPROOF DUPLEX RECEPTACLES AT MECHANICAL EQUIPMENT. PROVIDE 3/4"C. WITH 3#12AWG TO NEAREST PANEL AND CONNECT TO 20A.,1P. RECEPTACLE, UNLESS OTHERWISE INDICATED.
7. BUILDING MANAGEMENT SYSTEM REQUIREMENTS SHALL BE COORDINATED WITH DIVISION 23 AND 26 DRAWINGS AND SPECIFICATIONS FOR A COMPLETE AND OPERABLE SYSTEM.
8. REFER TO DIVISION 23 AND 26 SPECIFICATIONS FOR DETAILED INFORMATION REGARDING VFD REQUIREMENTS AND ACCESSORIES.
9. REFER TO DIVISION 23 AND 26 DRAWINGS FOR QUANTITY, LOCATION AND CONFIGURATION OF DISCONNECTS AND STARTERS.

GENERAL LEGEND

MOCP - MAXIMUM OVERCURRENT CIRCUIT PROTECTION

WSA/MCA - WIRE SIZING AMPS/MINIMUM CIRCUIT AMPS

STARTER TYPE LEGEND

FVNR - FULL VOLTAGE NON-REVERSING

SSRV - SOLID STATE REDUCED VOLTAGE

VFD - VARIABLE FREQUENCY DRIVE

A

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8 ANDREW AVENUE.
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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
	10/05/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
ELECTRICAL MECHANICAL SCHEDULE

DRAWN BY: Author

CHECKED BY: Checker

SCALE: As indicated

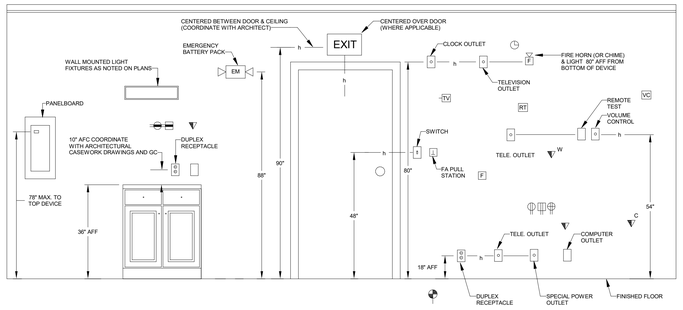
PROJECT NO.: 21-125-2125.04

SEAL:

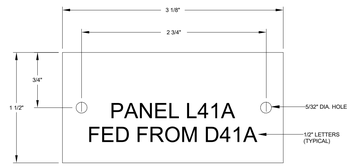
DRAWING NO.:
E-510

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/21-125-2125.04 - Wayland Senior Center - Elec.rvt

DATE & TIME PRINTED: 10/5/2022 2:58:12 PM

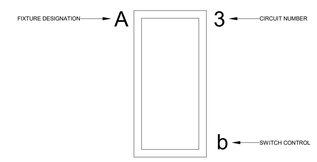


A1	Mounting Heights
NOT TO SCALE	

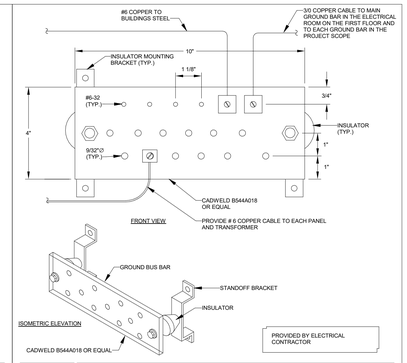


NOTES:
1. REFER TO SPECIFICATIONS FOR ADDITIONAL NAMEPLATE REQUIREMENTS.
2. NAMEPLATE TO BE 1/16" THICK WHITE PLASTIC WITH BLACK CENTER LAMINATION. FACE SHALL BE WHITE, ENGRAVED LETTERS SHALL BE BLACK.
3. SECURE NAMEPLATE TO SURFACES WITH (2) FLAT HEAD BRASS SCREWS. ADHESIVE CEMENT SHALL NOT BE ALLOWED.

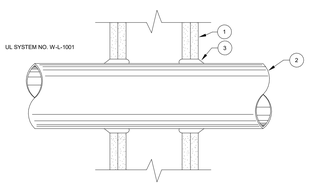
A3	Typical Nameplate Detail
NOT TO SCALE	



A4	Typical Lighting Fixture Designation Detail
NOT TO SCALE	



A5	Ground Bar Detail
NOT TO SCALE	

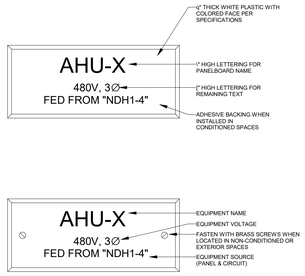


DETAIL NUMBERED NOTES:

1. WALL ASSEMBLY - THE 1, 2, 3, OR 4 HOUR FIRE RATED GYPSUM WALLBOARD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY.
2. CONDUIT - NOM 4" DIAMETER OR SMALLER STEEL ELECTRICAL METALLIC TUBING. A MAXIMUM OF ONE CONDUIT IS PERMITTED IN THE FIRE STOP SYSTEM. CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
3. FILL VOID OR CAVITY MATERIAL - CAULK FILL MATERIAL BEARING THE UL IDENTIFICATION MARKING INSTALLED TO COMPLETELY FILL ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND GYPSUM WALLBOARD AND WITH A MIN. 1/4" DIAMETER BEAD OF CAULK APPLIED TO PERIMETER OF CONDUIT AT ITS EGRESS FROM THE WALL. CAULK INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F RATING OF THE FIRE STOP SYSTEM IS DEPENDENT UPON THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE. THE HOURLY T RATING OF THE FIRE STOP SYSTEM IS DEPENDENT UPON THE TYPE OR SIZE OF THE CONDUIT AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS TABULATED BELOW:

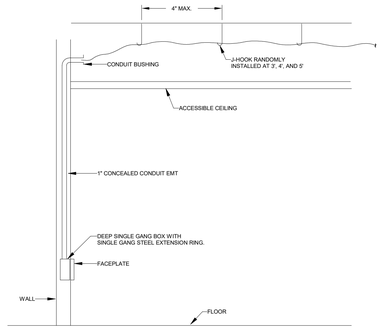
MAXIMUM CONDUIT DIAMETER IN INCHES	ANNULAR SPACE IN INCHES	FIRE RATING IN HOURS	T RATING IN HOURS
1	0 TO 3/16	1 OR 2	0, 1 OR 2
1	1/4 TO 1/2	3 OR 4	3 OR 4
4	0 TO 1-1/2	1 OR 2	0
6	1/4 TO 1/2	3 OR 4	0
12	3/16 TO 3/8	1 OR 2	0

B1	Conduit Penetration of Fire Wall
NOT TO SCALE	

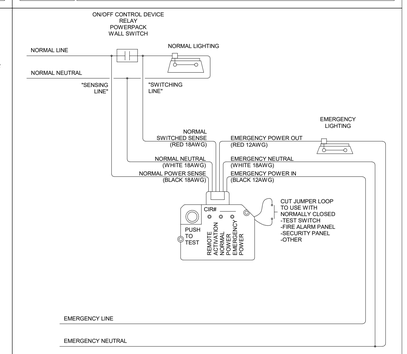


TYPICAL EQUIPMENT

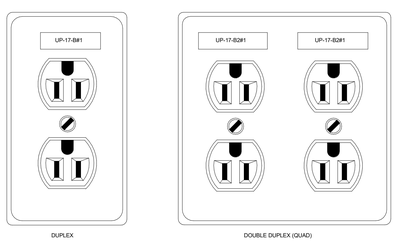
B3	Equipment Nameplate
NOT TO SCALE	



B4	Typical Flush Outlet Mounting Conduit Overhead
NOT TO SCALE	

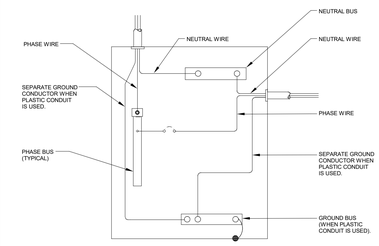


B5	Emergency Lighting Control Unit (ELCU) Wiring Diagram
NOT TO SCALE	

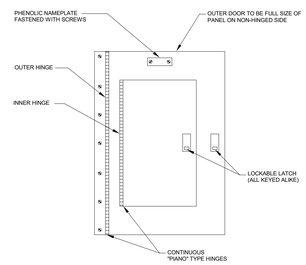


NOTES:
1. PROVIDE LABEL TO ALL WALL AND FURNITURE MOUNTED RECEPTACLES AND JUNCTION BOXES AS REQUIRED. LABEL SHOULD READ AS SHOWN ABOVE.

C1	Receptacle Labeling Detail
NOT TO SCALE	

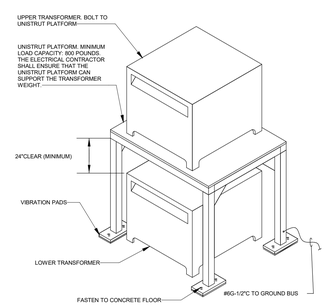


C3	Typical Electrical Panel Detail
NOT TO SCALE	

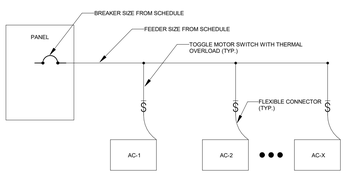


NOTES:
1. ALL PANEL SIZE 400A AND LESS SHALL BE PROVIDED WITH DOOR-IN-DOOR COVERS.

C4	Door in Door Detail
NOT TO SCALE	



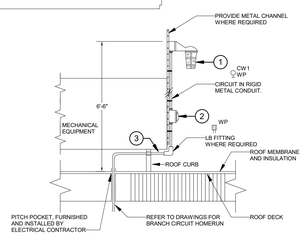
C5	Unistrut Transformer Platform Detail
NOT TO SCALE	



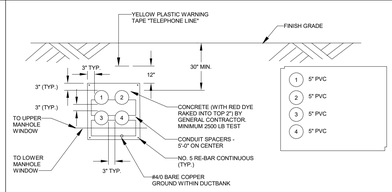
D1	Daisy Chained Mechanical Equipment Detail
NOT TO SCALE	

DETAIL NUMBERED NOTES:

1. WEATHERPROOF LIGHT FIXTURE WITH GUARD (120V) FIXTURE TYPE "CW1"
2. 120 VOLT DUPLEX, GROUND FAULT RECEPTACLE IN WEATHERPROOF BOX.
3. SEAL PENETRATIONS PER SPECIFICATIONS.

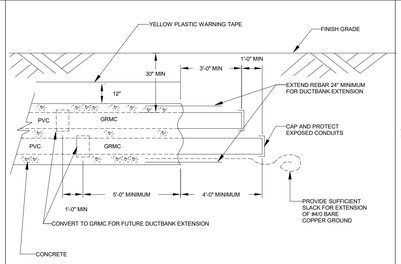


D2	Roof Top Mechanical Equipment
NOT TO SCALE	



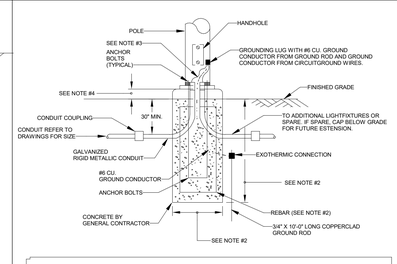
NOTES:
1. STEEL REINFORCING RODS SHALL BE INTERFACED WITH BUILDING FOUNDATION AND MANHOLE WALLS TO MINIMIZE SHEARING.
2. COORDINATE WITH CIVIL AND STRUCTUAL DRAWINGS.

D3	Ductbank Section
NOT TO SCALE	



NOTES:
1. REFER TO SITE PLANS FOR DUCTBANK TYPES AND THE LOCATIONS FOR TERMINATING DUCTBANK.

D4	Typical Ductbank Termination Detail
NOT TO SCALE	



NOTES:
1. FURNISH POLE BASE TEMPLATE TO GENERAL CONTRACTOR PRIOR TO CONCRETE POUR.
2. REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR BASE SIZE AND REBAR REQUREMENTS.
3. PROVIDE GROUNDING BUSHINGS PER NEC.
4. COORDINATE DIMENSIONS WITH ARCHITECT.

D5	Typical Light Pole Base Detail
NOT TO SCALE	

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
1	08/31/2022	BID SET
	10/05/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
ELECTRICAL DETAILS SHEET 1 OF 2

DRAWN BY: JC
CHECKED BY: RDM
SCALE: 1/4" = 1'-0"
PROJECT NO.: 21-125-2125.04

SEAL:

DRAWING NO.:
E-600

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/21-125-2125.04 - Wayland Senior Center - Elec.rvt

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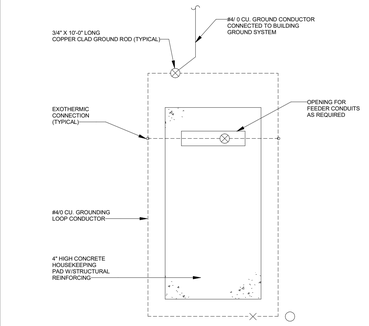
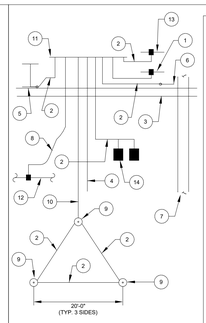


A1 — Typical Generator Pad Detail

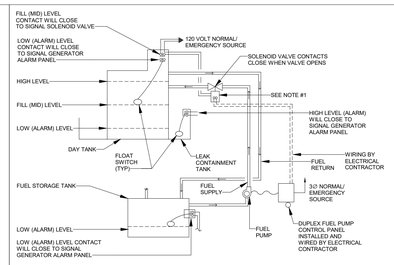
NOT TO SCALE



1. MAIN SWITCHBOARD GROUND BUS.
2. #4/0 BARE CU. GROUND CONDUCTOR IN 1 1/4 "CONDUIT.
3. BUILDING EXTERIOR WALL.
4. #4/0 BARE CU. GROUND CONDUCTOR IN CONCRETE ENCASEMENT TO XFMR PAD GROUNDING GRID.
5. STRUCTURAL STEEL EXOTHERMIC CONNECTION.
6. GROUNDING CLAMP ON METALLIC PIPE.
7. STREET SIDE OF WATER SERVICE PIPE.
8. #4/0 BARE CU. GROUND CONDUCTOR FROM THE BUILDING GROUND GRID.
9. 3/4" X 10'-0" LONG COPPERWELD GROUND ROD DRIVEN WITH TOP 1'-0" BELOW GRADE.
10. 500 KCMIL CU. GROUND CONDUCTOR IN 1 1/4 "CONDUIT.
11. BUILDING SYSTEM GROUND BUS
12. BUILDING GROUNDING GRID
13. CONCRETE - ENCASED ELECTRODE
14. PLATE ELECTRODES

A2 — Electric Service Grounding Electrode Detail

NOT TO SCALE

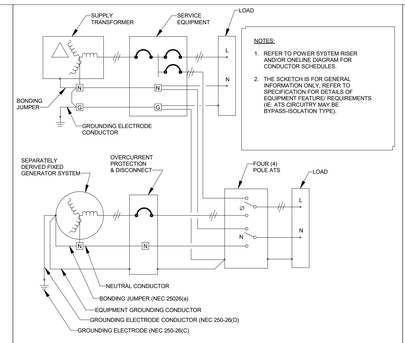


NOTES:

1. WHERE MULTIPLE GENERATORS ARE INSTALLED, WIRE SOLENOID VALVE CONTACTS IN PARALLEL.
2. ALL PIPING, FUEL PUMPS, FUEL STORAGE TANK AND ASSOCIATED PANELS SHALL BE PROVIDED BY MECHANICAL CONTRACTOR.
3. DAY TANK WIRING, SOLENOID WIRING AND CONTROL WIRING SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.

A3 — Typical Generator Fuel Oil Pump Wiring Detail

NOT TO SCALE

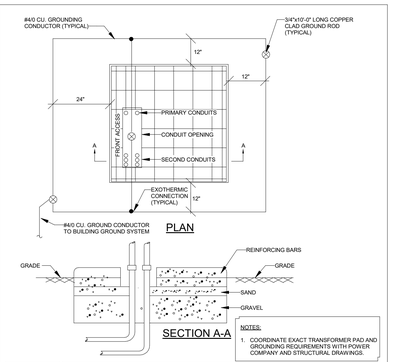


NOTES:

1. REFER TO POWER SYSTEM RISER AND/OR ONELINE DIAGRAM FOR CONDUCTOR SCHEDULES.
2. THE SCHETCH IS FOR GENERAL INFORMATION ONLY. REFER TO SPECIFICATION FOR DETAILS OF EQUIPMENT FEATURE/ REQUIREMENTS (IE: ATS CIRCUITRY MAY BE BYPASS-ISOLATION TYPE).

A4 — Separately Derived Generator System

NOT TO SCALE

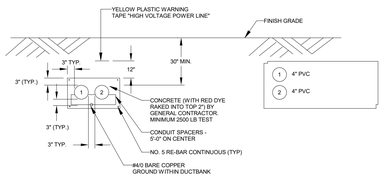


NOTES:

1. COORDINATE EXACT TRANSFORMER PAD AND GROUNDING REQUIREMENTS WITH POWER COMPANY AND STRUCTURAL DRAWINGS.

A5 — Transformer Pad Dimension Details

NOT TO SCALE

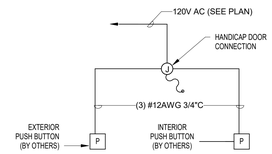


NOTES:

1. STEEL REINFORCING RODS SHALL BE INTERFACED WITH BUILDING FOUNDATION AND MANHOLE WALLS TO MINIMIZE SHEARING.
2. COORDINATE WITH CIVIL AND STRUCTUAL DRAWINGS.

B1 — Ductbank Section

NOT TO SCALE



NOTES:

1. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH OWNER AND ARCHITECT PRIOR TO START OF WORK.
2. ALL CONDUITS SHALL INCLUDE PULL STRINGS AND INSULATED BUSHINGS AND WIRING AS REQUIRED BY MANUFACTURER.
3. REFER TO ARCHITECTURAL FLOOR PLANS FOR EXACT LOCATIONS AND MOUNTING.

B2 — Handicap Door Wiring Diagram

NOT TO SCALE

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
1	08/31/2022	BID SET
	10/05/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
ELECTRICAL DETAILS SHEET 2 OF 2

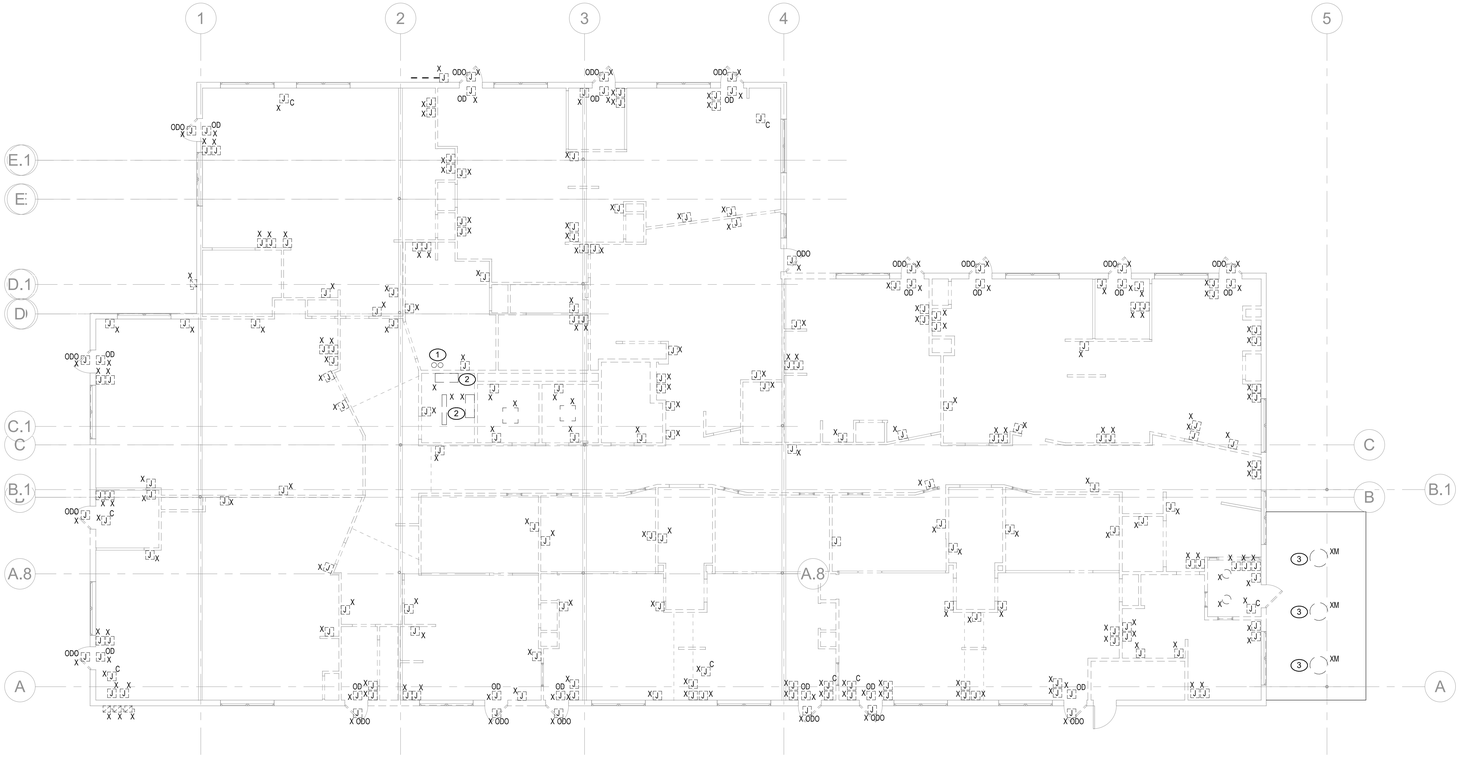
DRAWN BY: JMH
CHECKED BY: RDM
SCALE: As indicated
PROJECT NO.: 21-125-2125.04

SEAL:

DRAWING NO.:
E-610

PROJECT LOCATION:
IBM 360://Town of Wayland On Call TASK ORDER#4/21-125-2125.04 - Wayland Senior Center - Elec.rvt

DATE & TIME PRINTED: 10/5/2022 2:58:18 PM



DEMOLITION GENERAL NOTES

1. THE DEMOLITION PLANS INDICATE GENERAL INTENT AND ARE NOT INTENDED TO SHOW ALL COMPONENTS AND ITEMS TO BE REMOVED OR RETAINED. THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMISSION OF THEIR BID TO BECOME FAMILIAR WITH THE ACTUAL WORKING CONDITIONS AND EXTENT OF WORK. DEVICES AND EQUIPMENT LOCATED ON WALLS AND/OR CEILINGS DESIGNATED TO BE REMOVED SHALL BE DISCONNECTED AND MADE SAFE. THE ELECTRICAL CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE AND ARCHITECT OF ANY UNANTICIPATED OR HIDDEN CONDITIONS ENCOUNTERED DURING DEMOLITION.
2. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ALL SYSTEMS OR BUILDING COMPONENTS DAMAGED DURING EXECUTION OF THE WORK. DAMAGE SHALL INCLUDE, BUT NOT BE LIMITED TO, THE DESTRUCTION OR DISPOSAL OF ITEMS INTENDED TO REMAIN OR BE SALVAGED.
3. THE CONTRACTOR SHALL CIRCUIT TRACE AND LABEL ALL EXISTING BRANCH CIRCUITS AND FEEDERS WITHIN OR ASSOCIATED WITH THE DEMOLITION SCOPE PRIOR TO DE-ENERGIZING AND DISCONNECTION. ALL CIRCUITS WITHIN PANELBOARDS, LOADCENTERS, MOTOR CONTROL CENTERS, AND SWITCHBOARDS IDENTIFIED FOR REMOVAL SHALL BE TRACED AND FIELD LABELED TO ENSURE THAT NO AREA OUTSIDE THE DEMOLITION SCOPE LIMIT IS AFFECTED.
4. IN ANY AREA REQUIRING THE PERFORMANCE OF ANY TRADE'S WORK, THE ELECTRICAL CONTRACTOR SHALL CAREFULLY REMOVE AND STORE ANY OR ALL ELECTRICAL ITEMS IN PATH OF WORK, REINSTALLING AND RECONNECTING SAME AS REQUIRED, IN ACCORDANCE WITH THE PLANS AND/OR AS DIRECTED AFTER COMPLETION OF OTHER TRADES WORK IN THAT AREA.
5. THE ELECTRICAL CONTRACTOR SHALL IDENTIFY ALL BRANCH CIRCUITS, FEEDERS AND SYSTEM COMPONENTS WHICH ARE TO REMAIN WITHIN THE AREA OF DEMOLITION SCOPE. THERE SHALL BE NO INTERRUPTION OF OF SERVICE TO ANY AREA OUTSIDE THE SCOPE LIMITS WITHOUT WRITTEN APPROVAL FROM THE OWNER'S REPRESENTATIVE. EXISTING EQUIPMENT TO REMAIN SHALL BE LEFT IN A CODE COMPLIANT CONDITION.
6. IN ALL EXISTING OR NEW AREAS SPECIFIED OR SHOWN TO BE PAINTED, THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL ELECTRICAL ITEMS AS REQUIRED, INCLUDING BUT NOT LIMITED TO, LIGHTING FIXTURES, DEVICE PLATES, DEVICES, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STORING THE REMOVED DEVICES IN A SAFE AND SECURE PLACE. THE ELECTRICAL CONTRACTOR SHALL REINSTALL THE SAME DEVICES AFTER COMPLETION OF PAINTING. ANY ITEM NOT REMOVED AND PAINTED OVER SHALL BE SUITABLY CLEANED OR REPLACED WITH A NEW ITEM BY THE ELECTRICAL CONTRACTOR.
7. THE ELECTRICAL CONTRACTOR SHALL DE-ENERGIZE AND REMOVE ALL CONDUCTORS AND RACEWAYS WITHIN THE AREA OF DEMOLITION SCOPE TO THEIR POINT OF ORIGIN, OR NEXT DEVICE. ITEMS IDENTIFIED FOR DEMOLITION SHALL NOT BE ABANDONED IN PLACE. RACEWAYS THAT ENTER MASONRY WALLS AND FLOORS SHALL BE CUT FLUSH AT THE SURFACE FOR PATCHING BY OTHERS. ALL CIRCUIT BREAKERS ASSOCIATED WITH THE DEMOLITION SHALL BE DE-ENERGIZED AND RE-LABELLED AS "SPARE". NEW TYPED UPDATED CIRCUIT DIRECTORIES SHALL ALSO BE PROVIDED. CIRCUIT BREAKER SHALL BE SWITCHED IN OFF POSITION. THE CONTRACTOR SHALL REMOVE ALL ELECTRICAL DEVICES FROM EXISTING WALL AND CEILING BEING REMOVED AND MODIFIED UNDER THIS CONTRACT. ALL EXISTING CONDUIT AND WIRING FEEDING THESE DEVICES SHALL BE REMOVED.
8. THE ELECTRICAL CONTRACTOR SHALL TEMPORARILY SUPPORT ALL ITEMS TO REMAIN THAT ARE AFFECTED BY THE DEMOLITION OF BUILDING STRUCTURAL COMPNENTS (WALLS, CEILINGS, PARTITIONS, ETC.). CONTRACTOR SHALL TEMPORARILY SUPPORT ITEMS AND SHALL PROVIDE PERMANENT SUPPORTS WHEN FINALIZED STRUCTURES ARE IN PLACE.
9. ALL REMOVED ITEMS SHALL BE LEGALLY DISPOSED OF UNLESS IDENTIFIED FOR REUSE. THE OWNER SHALL INSPECT ALL RETAINED ITEMS PRIOR TO PLACEMENT IN THE IDENTIFIED STORAGE LOCATION BY THE ELECTRICAL CONTRACTOR.
10. THE EXISTING FIRE ALARM SYSTEM SHALL REMAIN FULLY FUNCTIONAL DURING THE ENTIRE DEMOLITION AND CONSTRUCTION PERIOD. REUSE OF EXISTING FIRE ALARM RACEWAYS SHALL NOT BE ALLOWED. ALL REQUIRED SYSTEM SHUTDOWNS SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER'S REPRESENTATIVE AND THE AUTHORITY HAVING JURISDICTION. DEMOLITION OF THE EXISITING SYSTEM SHALL NOT COMMENCE UNTIL THE NEW SYSTEM HAS BEEN COMPLETELY INSTALLED, TESTED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION.
11. ALL DEMOLITION SCOPE ASSOCIATED WITH LOW VOLTAGE SYSTEMS INCLUDING BUT NOT LIMITED TO TELEPHONE, DATA, SECURITY, PAGING, CCTV, ETC. SHALL BE INCLUDED IN THIS CONTRACT.
12. REMOVED FLUORESCENT AND HID LAMPS AND BATTERIES SHALL BE RECYCLED BY A FACILITY APPROVED BY THE OWNER'S REPRESENTATIVE. A UNIFORM HAZARDOUS WASTE MANIFEST SHALL BE PREPARED FOR ALL DISPOSALS AND RETURNED WITH ALL APPLICABLE SIGN OFFS PRIOR TO APPLICATION FOR FINAL PAYMENT.
13. ALL EQUIPMENT SHOWN LIGHT IN DASHED LINES AND DESIGNATED "ERM" IS BEING REMOVED. ALL EQUIPMENT SHOWN IN LIGHT SOLID LINES AND DESIGNATED AS "ETR" IS EXISTING TO REMAIN.
14. REMOVE ALL ABANDONED DEVICES COVERED WITH BLANK COVER PLATES, REMOVE ABANDONED WIRING BACK TO SOURCE.
15. ALL LIGHT FIXTURES THAT ARE EXISTING TO REMAIN OR EXISTING TO BE RELOCATED SHALL BE CLEANED AND REPAIRED AS NECESSARY. REPAIRS INCLUDE, BUT ARE NOT LIMITED TO, RE-LAMPING AND RE-BALLASTING DAMAGED FLOURESCENT FIXTURES, PROVIDING NEW DRIVERS OR LED BOARDS FOR DAMAGED LED FIXTURES, REPLACEMENT OF DAMAGED LENS OR OTHER MATERIAL DEFECTS.

DEMOLITION SCOPE NOTES

1. THE DEMOLITION INTENT IS A COMPLETE DEMOLITION OF ALL ELECTRICAL WIRING, BOXES, LIGHTING, TEMPOARY LIGHTING AND EQUIPMENT WITH IN THE STRUCTURE. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY AND ENSURE POWER IS OFF AND BUILDING IS SAFE FOR DEMOLITION.
2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A BID ALLOWANCE OF 1,000 FEET OF WIRE TO BE REMOVED FROM CEILING.
3. EXTERIOR LIGHTS SHOWN AS EXISTING TO REMAIN SHALL HAVE THIER WIRING DEMOLISHED LEAVING ONLY THIER HOUSING IN PLACE.

KEYED NOTES

1. EXISTING INCOMMING UTILTY CONDUITS TO REMAIN.
2. EXISTING ELECTRICAL PANELS TO BE DEMOLISHED.
3. EXISTING LIGHTING HOUSING TO REMAIN, WIRING TO BE DEMOLISHED.

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
1	08/31/2022	BID SET
	10/05/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
ELECTRICAL DEMOLITION - FIRST FLOOR

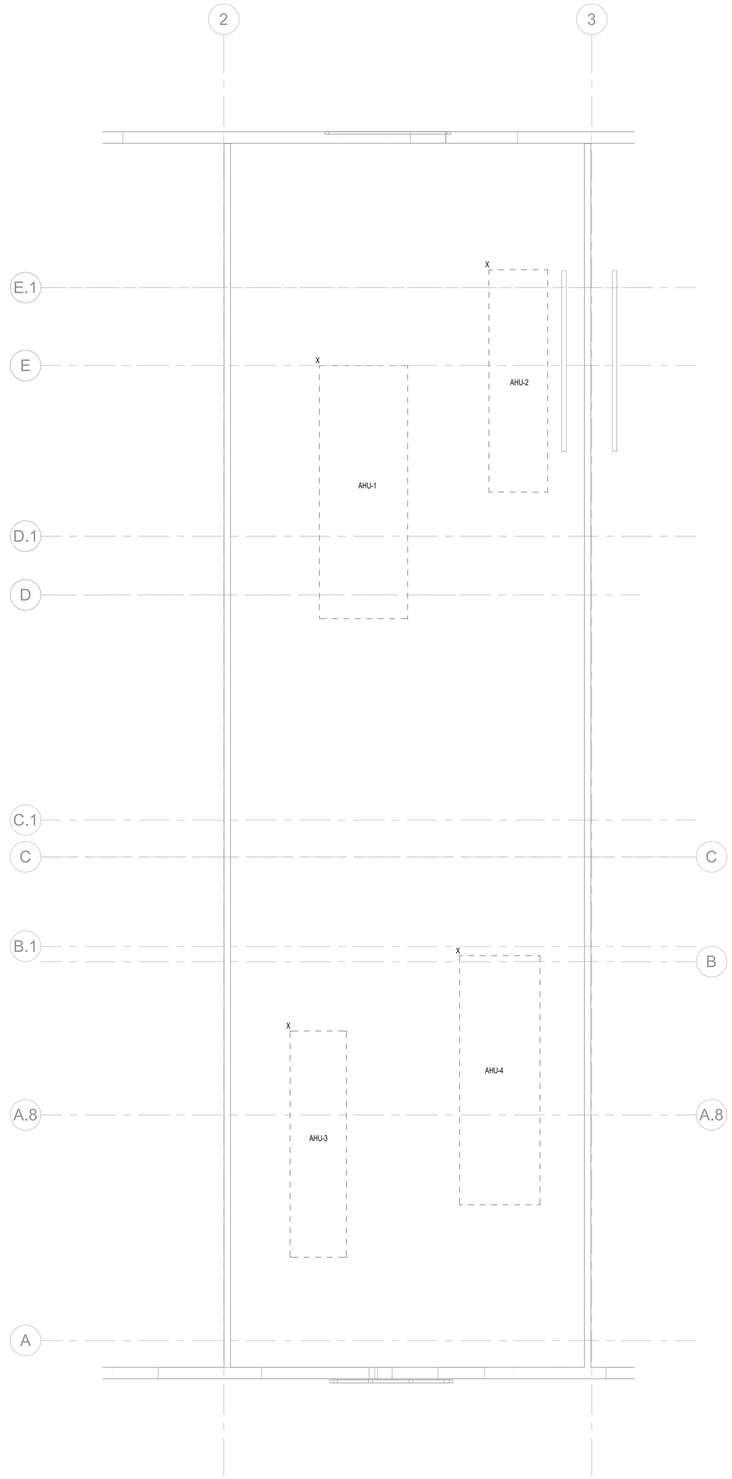
DRAWN BY: RDJ
CHECKED BY: RDM
SCALE: As indicated
PROJECT NO.: 21-125-2125.04

SEAL:

DRAWING NO.:
ED-100

PROJECT LOCATION:
IBM 360://Town of Wayland On Call TASK ORDER#4/21-125-2125.04 - Wayland Senior Center - Elec.rvt

DATE & TIME PRINTED: 10/5/2022 2:58:22 PM



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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
1	08/31/2022	BID SET
	10/05/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
ELECTRICAL DEMOLITION - MEZZANINE

DRAWN BY: RDJ
CHECKED BY: RDM
SCALE: As indicated
PROJECT NO.: 21-125-2125.04

SEAL:

DRAWING NO.:
ED-101

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/21-125-2125.04 - Wayland Senior Center - Elec.rvt

DATE & TIME PRINTED: 10/5/2022 2:58:23 PM

FIRE ALARM GENERAL NOTES

1. DEVICE LAYOUT DRAWINGS INDICATE APPROXIMATE LOCATION OF DEVICES. ACTUAL LOCATION SHALL BE INSTALLED CENTER OF CEILING TILE AND CENTER OF RESPECTIVE ROOM TAKING INTO CONSIDERATION FIELD CONDITIONS (LIGHTS, DUCTWORK, ETC.)
2. SUPPORT WIRE FOR CEILING MAY NOT BE USED TO SUPPORT ANY ELECTRICAL CONDUIT OR WIRE.
3. FOR EMT AND FLEXIBLE ALUMINUM METALLIC CONDUIT, ONLY THROATED INSULATOR CONNECTOR SHALL BE USED.
4. ALL FLEXIBLE CONDUIT USED WITHIN 12" OF A SPRINKLER RISER SHALL BE INSTALLED IN LIQUID TIGHT FLEXIBLE CONDUIT WITH STEEL COMPRESSION FITTINGS.
5. FIRE CONTROL PANELS, POWER SUPPLIES AND MODULE ENCLOSURES SHALL BE MOUNTED DIRECTLY TO STUDS USING THE APPROPRIATE SIZED METAL SCREWS IN A MINIMUM OF TWO PLACES. AT LEAST TWO OTHER FASTENERS FOR A TOTAL OF FOUR SHALL BE USED SUCH AS CRYWALL ANCHORS OR TOGGLE BOLTS. SHOULD ADDITIONAL MOUNTING HOLES BE DRILLED, ALL FOUR CORNERS ARE TO BE ANCHORED AT A MINIMUM.
6. ALL J-BOX COVERS USED IN FIRE ALARM AND FIRE SUPPRESSION SYSTEM AND CONTROLS SHALL BE RED.
7. WHEN CUTTING A DEVICE INTO A WALL AFTER DRYWALL IS INSTALLED, FLEXIBLE METAL CONDUIT WITH AN INSULATED SHALL BE USED.
8. NO MORE THAN TWO WIRES SHALL BE TERMINATED ON ANY SCREW TYPE TERMINATION LUG.
9. T-TAPPING OF SUPERVISED CIRCUITS WHICH EMPLOY AN END OF LINE RESISTOR IS SPECIFICALLY EXCLUDED.
10. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE MADE USING CONDUIT SLEEVE AND SHALL BE FIRE CAULKED USING UL APPROVED FIRE BARRIER CAULK LISTED FOR THE APPLICATION.
11. FIRE ALARM VENDOR MUST ADHERE TO ALL LOCAL CODES AND AUTHORITIES HAVING JURISDICTION. THE ENTIRE SYSTEM MUST BE DESIGNED IN ACCORDANCE WITH THESE AUTHORITIES HAVING JURISDICTION.
12. ALL CABLES AND WIRING MUST BE PLENUM RETURN RATED CABLES.
13. FIRE ALARM VENDOR MUST PRODUCE A SEPARATE FIXED PRICE TO PERFORM THE SCOPE OF WORK CONTAINED ON THESE DRAWINGS IN CONNECTION WITH THE FIRE ALARM SYSTEM. THESE DRAWINGS ARE PROVIDED FOR BID PURPOSES ONLY AND TO ILLUSTRATE THE SCOPE OF WORK INTENT OF THIS PROJECT. PRIOR TO SUBMISSION OF THE FIRE ALARM SYSTEM BID, THE FIRE ALARM BENDOR IS RESPONSIBLE TO REVIEW ALL DRAWINGS. UPON SUBMISSION OF THE FIRE ALARM BID, THE FIRE ALARM VENDOR CERTIFIES THAT ALL DRAWINGS HAVE BEEN REVIEWED, THE SITE HAS BEEN VISITED/INSPECTED, AND THAT ALL LOCAL BUILDING CODE REQUIRED ITEMS ARE FULLY UNDERSTOOD AND INCLUDED IN THE BID PRICE.
14. FIRE ALARM VENDOR MUST SUBMIT TO THE ENGINEER & OWNER FINAL SIGNED AND SEALED (BY ANY LICENSED P.E.) DESIGN /BUILD DRAWINGS INCLUDING: FIRE ALARM RISER DIAGRAM, LAYOUT, EQUIPMENT LIST, & SPECIFICATIONS PRIOR TO START OF INSTALLATION. THE COST OF ENGINEERING FEE, PRORAMMING CHARGE, NEW EQUIPMENT, CONNECTION & TESTING, TROUBLE SHOOTING OF SYSTEM, ATTENDANCE AT THE FIRE ALARM INSPECTION, ETC. ARE TO BE PART OF THE TOTAL PRICE. INSTALLATION OF THE NEW FIRE ALARM SYSTEM CAN BEGIN UPON WRITTEN APPROVAL FROM THE ENGINEER.

ABBREVIATIONS:

AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
ARCH	ARCHITECT
BFG	BOTTOM FINISHED GRADE
BLDG	BUILDING
BOS	BOTTOM OF STEEL
DN	DOWN
DWG	DRAWING
(E)	EXISTING TO REMAIN
E.C.	ELECTRICAL CONTRACTOR
EM	EMERGENCY
(ER)	EXISTING IN NEW LOCATION
ETR	EXISTING TO REMAIN
FBO	FURNISHED BY OWNER
F.A.C.	FIRE ALARM CONTRACTOR
F.S.C.	FIRE SPRINKLER CONTRACTOR
FT	FEET
FWE	FURNISHED WITH EQUIPMENT
G.C.	GENERAL CONTRACTOR
JC	JANITOR'S CLOSET
M.C.	MECHANICAL CONTRACTOR
MISC	MISCELLANEOUS
(N)	NEW
NTS	NOT TO SCALE
PNL	PANEL
QTY	QUANTITY
(R)	EXISTING TO BE DICONNECTED AND REMOVED
(RL)	EXISTING TO BE DISCONNECTED AND RELOCATED
(RP)	EXISTING TO BE REPLACED
TOS	TOP OF STEEL
U.O.N.	UNLESS OTHERWISE NOTED

THE ABBREVIATIONS ARE SHOWN FOR GENERAL REFERENCE ONLY. THE PRESENCE OF AN ABBREVIATION ON THIS LIST DOES NOT IMPLY ITS USE ON THIS PROJECT. REFER TO DRAWINGS FOR SPECIFIC ABBREVIATIONS USED.

FIRE ALARM SYSTEM SYMBOLS

IDENTIFIER	DESCRIPTION
F	FIRE ALARM COMBINATION HORN/ADA APPROVED STROBE LIGHT SIGNAL UNIT - WALL MOUNTED (75CD UNLESS NOTES OTHERWISE)
F	FIRE ALARM COMBINATION HORN/ADA APPROVED STROBE LIGHT SIGNAL UNIT - CEILING MOUNTED (75CD UNLESS NOTES OTHERWISE)
F	FIRE ALARM SYSTEM DUAL ACTION MANUAL PULL STATION
F A	FIRE ALARM SYSTEM ADA APPROVED STROBE LIGHT SIGNAL UNIT (75CD UNLESS NOTED OTHERWISE)
	DUCT SMOKE DETECTOR
S	SMOKE DETECTOR ABOVE CEILING
S A	SMOKE DETECTOR
SP	SPEAKER STROBE
135° F	FIRE ALARM SYSTEM COMBINATION 135°F FIXED TEMPERATURE / RATE OF RISE HEAT DETECTOR. "F" INDICATED 190°F FIXED TEMPERATURE
HD	FIRE ALARM SYSTEM BELL
FS	SPRINKLER SYSTEM WATER FLOW SWITCH
TS	SPRINKLER SYSTEM WATER TAMPER SWITCH
DH	MAGNETIC DOOR HOLDER/CLOSER
FACP	FIRE ALARM CONTROL PANEL
FAA	FIRE ALARM SYSTEM REMOTE ANNUNCIATOR PANEL
FSR	FAN SHUT DOWN RELAY
R	RELAY
RTS	REMOTE TEST SWITCH
M	MONITOR MODULE
ISO	ISOLATION MODULE
IAM	INDIVIDUAL ADDRESSABLE MODULE
	END OF THE LINE RESISTOR
K	FIRE ALARM KEY BOX
PS	PRESSURE, TEMP, HUMIDITY SENSOR
F	FIRE ALARM MASTER BOX
AUDIO AND VISUAL ALARM DEVICES SHALL BE MOUNTED 80" ABOVE	

NOTE: THIS SYMBOL LEGEND IS SHOWN FOR GENERAL REFERENCE ONLY. THE PRESENCE OF A SYMBOL ON THIS LEGEND DOES NOT IMPLY ITS USE ON THIS PROJECT. REFER TO DRAWINGS FOR SPECIFIC SYMBOLS USED.

GENERAL SYMBOLS

IDENTIFIER	DESCRIPTION
	TO BE DEMOLISHED
NIC	AREA NOT IN CONTRACT
	FIELD CONNECT
	FIELD DISCONNECT
XXX / XX	EQUIPMENT TAG / EQUIPMENT NUMBER
XXX / X-XXX	DETAIL TAG/CALL OUT TAG / FIRE PROTECTION SHEET NUMBER
X	KEYED NOTE

CODE REFERENCE

1. XXXX

SCOPE OF WORK:

1. XXXX

NOTE: THIS SCOPE OF WORK DESCRIPTION IS PROVIDED TO GIVE AN OVERALL "MACRO" DESCRIPTION OF THIS PROJECT. CONTRACTOR IS RESPONSIBLE TO REVIEW ALL ENGINEERING AND ARCHITECTURAL DRAWINGS AND VISIT THE SITE IF NEEDED, PRIOR TO SUBMISSION OF BID. REFER TO SPECIFICATIONS FOR FURTHER SCOPE OF WORK. IF CONFLICTS ARISE, CONTACT DESIGN ENGINEER BEFORE FABRICATION.

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
	10/05/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
FIRE ALARM LEGEND AND NOTES

DRAWN BY: JMH
CHECKED BY: RDM
SCALE: As indicated
PROJECT NO.: 21-125-2125.04

SEAL:

DRAWING NO.:
FA-000

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/21-125-2125.04 - Wayland Senior Center - Elec.rvt

DATE & TIME PRINTED: 10/5/2022 2:58:24 PM

FIRE ALARM NARRATIVE:

PROJECT SCOPE: THIS PROJECT INVOLVES THE MODIFICATIONS OF THE EXISTING FIRE ALARM SYSTEM FOR THE RENOVATIONS OF EXISTING SPACES PROTECTED BY THE EXISTING FIRE ALARM SYSTEM AND AN EXTENSION TO INCLUDE NEW DEVICES AS REQUIRED BY THE CURRENT CODES AND STANDARDS.

ALL WORK SHALL IN BE ACCORDANCE TO NFPA 70, NATIONAL ELECTRICAL CODE, NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE, NFPA 101, LIFE SAFETY CODE AND NFPA 99 HEALTHCARE FACILITIES CODE.

THE EXISTING FIRE ALARM SYSTEM, OR ANY PART OF THE EXISTING SYSTEM, SHALL NOT BE TAKEN OUT OF SERVICE WITHOUT THE WRITTEN PERMISSION OF THE OWNER.

A COMPLETE SUBMITTAL PACKAGE SHALL BE SUBMITTED TO THE OWNER PRIOR TO ANY WORK BEING PERFORMED THAT WAS DESIGNED UNDER THE DIRECT SUPERVISION ON A LICENSED PROFESSIONAL ENGINEER. SUBMITTALS SHALL INCLUDE, BUT NOT LIMITED TO, THE FOLLOWING: THE SUBMITTALS SHALL INCLUDE, IN ADDITION TO ANY REQUIRED BY THE SPECIFICATIONS, FLOOR PLANS SHOWING ALL DEVICE(S) LOCATION(S), NETWORK ADRESS, LOOP OR NODE NUMBER, WIRING DIAGRAMS SHOWING TYPICAL WIRING OF EACH TYPE OF DEVICE AND ROUTING OF WIRING, CALCULATIONS SHALL INCLUDE, BATTERY SIZING, LOOP VOLTAGE DROP AND RESISTANCE.

COMPONENTS:
ALL NEW FIRE ALARM EQUIPEMT SHALL BE UL LISTED AND LABELED FOR THE INTENDED USE AND/OR FM APPROVED WHERE APPLICABLE.

TESTING:
THE FIR ALARM SYSTEM WILL BE TESTED IN ACCORDANCE WITH NFPA 72 AND RECORDED ON THE CONTRACTOR'S MATERIAL & TEST CERTIFICATE.

SYSTEM DESCRIPTION:

1. FIRE ALARM SIGNAL INITIATION SHALL BE BY ONE OR MORE OF THE FOLLOWING DEVICES:
   - MANUAL STATIONS
   - HEAT DETECTORS
   - SMOKE DETECORS
   - AUTOMATIC SPRINKLER SYSTEM WATER FLOW
   - FIRE EXTINGUISING SYSTEM OPERATION
   - FIRE STANDPIPE SYSTEM OPERATION
2. FIRE ALARM SIGNAL SHALL INITIATE THE FOLLOWING ACTIONS:
   - ALARM NOTIFICATION APPLIANCES SHALL OPERATE CONTINUOUSLY
   - IDENTIFY ALARM AT THE FACP AND ALL ANNUNCIATER PANELS
   - DE-ENERGISE ELETROMAGNETIC DOOR HOLDERS
   - TRANSMIT ALARM SIGNAL TO THE REMOTE RECEIVING STATIONS
   - UNLOCK ELECTRIC DOOR LOCKS IN DESIGNATED EGRESS PATHS
   - RELEASE FIRE AND SMOKE DOORS HELP OPEN BY MAGNETIC DOOR HOLDERS
   - ACTIVATE VOICE COMMUNICATION SYSTEM
   - SHUTDOWN HVAC EQUIPMENT CONTROL TO THE ALARM MODE
   - CLOSE SMOKE DAMPERS IN AIR DUCT OF SYSTEM SERVING THE ZONE WHERE THE FIRE ALARM WAS INITIATED
   - RECORD EVENTS IN THE SYSTEM MEMORY
3. SUPERVISORY SIGNAL INITIATION SHALL BE BY ONE OR MORE OF THE FOLLOWING DEVICES OR ACTIONS:
   - OPERATION OF FIRE-PROTECTION SYSTEM VALVE TAMPER
4. SYSTEM TROUBLE SIGNAL INITIATION SHALL BE BY ONE OR MORE OF THE FOLLOWING DEVICES OR ACTIONS:
   - OPEN CIRCUITS, SHORTS AND GROUNDS OF WIRING FOR INITIATING DEVICE, SIGNALING LINE, CONTROL CIRCUIT, AND POWER SUPPLY
   - OPENING, TAMPERING, OR REMOVAL OF ALARM-INITIATING AND SUPERVISORY SIGNAL-INITIATING DEVICES
   - LOSS OF PRIMARY POWER AT THE FACP
   - GROUND OR A SINGLE BREAK IN FACP INTERNAL CIRCUITS
   - ABNORMAL AC VOLTAGE AT THE FACP
   - A BREAK IN STANDBY BATTERY CIRCUITRY
   - FAILURE OF BATTERY CHARGING
   - ABNORMAL POSITION OF ANY SWITCH AT THE FACP OR ANNUNCIATOR
   - FIRE-PUMP POWER FAILURE, INCLUDING A DEAD-PHASE OR PHASE-REVERSAL CONDITION
   - LOW-AIR-PRESSURE SWITCH OPERATION ON A DRY-PIPE OR PREACTION SPRINKLER SYSTEM
   - TROUBLE SIGNAL IF GENERATOR ALARM IS ACTIVATED
   - TROUBLE SIGNAL IF ANY PSNH ATS OVERRISE SWITCH IS ENGAGED
5. SYSTEM TROUBLE AND SUPERVISORY SIGNAL ACTIONS:
   - RING TROUBLE BELL, ACTIVATE AMBER BEACON AND ANNUNCIATE AT THE FACP

C1	Fire Alarm Narrative
NOT TO SCALE	

1 Fire Alarm Narrative
SCALE: NOT TO SCALE

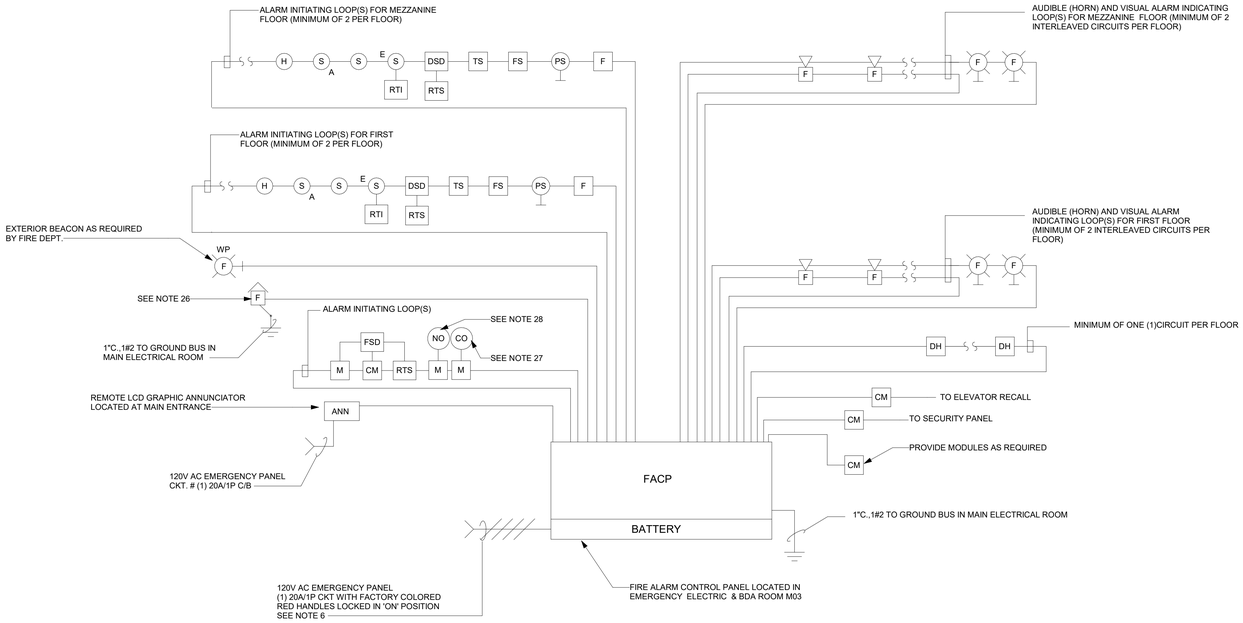
SYSTEM OUTPUT:

SYSTEM INPUT:	A: ACTUATE COMMON FIRE ALARM SIGNAL INDICATOR	B: ACTUATE REMOTE ALARM SIGNAL	C: ACTUATE CAMPUS ALARM SIGNAL	D: ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	E: ACTUATE COMMON TROUBLE SIGNAL INDICATOR	F: ACTUATE AUDIBLE TROUBLE SIGNAL	G: ACTUATE ANNUNCIATOR LOCATION INDICATOR	H: ACTUATE ALL AUDIBLE EVACUATION SIGNALS	I: ACTUATE ALL VISIBLE EVACUATION SIGNALS	J: SHUTDOWN ELEVATORS	K: DISPLAY CLOSING OF STATUS	L: TRANSMIT ALARM SIGNAL TO SUPERVISING STATION	M: TRANSMIT SUPV. SIGNAL TO SUPERVISING STATION	N: TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	O: ACTUATE ALL SAFETY SHUT OFF SWITCHES	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	REMARKS
1 SMOKE SENSOR/DETECTOR	●	●				●	●	●		●	●																		1 -
2 MANUAL PULL STATION	●	●				●	●	●		●	●																		2 -
3 HEAT SENSOR/DETECTOR	●	●				●	●	●		●	●																		3 -
4 WATERFLOW SWITCH	●	●				●	●	●		●	●																		4 -
5 TAMPER SWITCH			●	●		●				●		●																	5 -
6 FIRE ALARM AC POWER FAILURE					●	●				●			●																6 -
7 FIRE ALARM SYSTEM LOW BATTERY					●	●				●			●																7 -
8 OPEN CIRCUIT OR GROUND FAULT					●	●				●			●																8 -
9 CLASS A NOTIFICATION CIRCUIT (NAC) - SHORT					●	●				●			●																9 -
10 FIRE SUPPRESSION SYSTEM ACTIVATION	●	●					●	●	●		●	●				●													10 COORDINATE CONTROLS WITH VENDOR
11 -																													11 -
12 -																													12 -
13 -																													13 -
14 -																													14 -
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	

CONTROL UNIT ANNUNCIATION | NOTIFICATION | FIRE SAFETY CONTROL

C3	Fire Alarm Sequence Of Operation
NOT TO SCALE	

2 Fire Alarm Sequence of Operation
SCALE: NOT TO SCALE



FIRE ALARM SYSTEM NOTES:

1. FIRE ALARM RISER IS DIAGRAMMATIC AND DOES NOT SHOW TOTAL QUANTITIES OF CIRCUITS, COMPONENTS, AND DEVICES REQUIRED.
2. NOT ALL FIRE ALARM DEVICES ARE SHOWN ON THE ELECTRICAL DRAWINGS. REFER TO DRAWINGS OF OTHER TRADES FOR QUANTITIES AND LOCATIONS OF FIRE ALARM DEVICES NOT SHOWN ON THESE DRAWINGS, INCLUDING BUT NOT LIMITED TO: SMOKE DAMPERS, DUCT SMOKE DETECTORS, FLOW SWITCHES, AND PRESSURE SWITCHES.
3. REFER TO DRAWINGS OF OTHER TRADES FOR SEQUENCE OF OPERATIONS FOR SMOKE DAMPERS AND AIR-HANDLING UNITS.
4. PROVIDE QUANTITIES, LOCATIONS, TYPES, COVERAGES, AND SETTINGS OF FIRE ALARM DEVICES TO MEET APPLICABLE CODES AND STANDARDS.
5. PROVIDE NAC EXTENDER PANELS AS REQUIRED. PROVIDE ASSOCIATED 120-VOLT POWER FEEDS FROM LOCAL STAND-BY ELECTRICAL BRANCH CIRCUIT PANEL BOARD TO EACH NAC EXTENDER PANEL PROVIDED.
6. LOCATE HEAT DETECTORS IN ELEVATOR SHAFTS AND ELEVATOR MACHINE ROOMS WITHIN 24-INCHES OF SPRINKLER HEADS. COORDINATE QUANTITY OF HEAT DETECTORS REQUIRED WITH QUANTITY OF SPRINKLER HEADS. WHERE ELEVATORS EXIST.
7. WIRE SIZES, TYPES, AND QUANTITIES SHALL BE IN ACCORDANCE WITH VOLTAGE DROP CALCULATIONS (DEPENDANT ON SELECTED DEVICE RATINGS AND SETTINGS) AND MANUFACTURER'S RECOMMENDATIONS.
8. EXACT CONDUIT AND WIRING REQUIREMENTS AND ROUTING SHALL BE DETERMINED IN THE FIELD AND INDICATED ON SHOP DRAWING SUBMITTALS.
9. SUBMIT VENDOR DESIGNED AND APPROVED LAYOUT DRAWINGS OF FIRE ALARM COMPONENTS AS PART OF SHOP DRAWING SUBMITTAL PACKAGE. QUANTITIES, LOCATIONS, AND SETTINGS OF FIRE ALARM COMPONENTS SHOWN ON THESE DRAWINGS IS GENERIC AND MAY REQUIRE MODIFICATION TO MEET VENDOR-SPECIFIC REQUIREMENTS OR LIMITATIONS.
10. PROVIDE FIRE ALARM SYSTEM DRAWINGS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER AND SUBMIT FOR APPROVAL TO AUTHORITIES HAVING JURISDICTION. ADDRESS COMMENTS MADE BY AUTHORITIES HAVING JURISDICTION AND RESUBMIT REVISED SIGNED AND SEALED DRAWINGS IF REQUIRED.
11. FIRE ALARM DEVICES SHALL BE ADA COMPLIANT AND SHALL BE INSTALLED IN ACCORDANCE WITH ADA REQUIREMENTS.
12. FIRE ALARM SYSTEM DEVICES AND INSTALLATION SHALL COMPLY WITH GOVERNING EDITIONS OF NFPA 72 AND INTERNATIONAL BUILDING CODE.
13. PROVIDE LOCKABLE CIRCUIT BREAKER FOR 120-VOLT POWER CIRCUITS SERVING FIRE ALARM SYSTEM COMPONENTS. CLEARLY IDENTIFY EACH CIRCUIT BREAKER SERVING FIRE SYSTEM COMPONENTS AS SUCH.
14. PROVIDE LABELS AT EACH FIRE ALARM DEVICE INDICATING DEVICE NUMBER AND ADDRESS.
15. CONCEAL FIRE ALARM WIRING, CONDUIT, AND OUTLET BOXES IN FINISHED AREAS, UNLESS NOTED OTHERWISE. PROVIDE BOX SKIRTS FOR FIRE ALARM DEVICE BOXES INDICATED AS SURFACE-MOUNTED.
16. FIRE ALARM WIRING IN EXPOSED LOCATIONS (MECHANICAL ROOMS, ELECTRICAL ROOMS, ETC.) SHALL BE RUN IN CONDUIT.
17. FIRE ALARM DEVICES LOCATED OUTSIDE SHALL BE WEATHERPROOF.
18. PROVIDE MINIMUM 25% SPARE CAPACITY ACROSS THE ENTIRE FIRE ALARM SYSTEM. PROVIDE MINIMUM 25% SPARE CAPACITY ON EACH FIRE ALARM CIRCUIT, CALCULATED WITH EACH ATTACHED DEVICE ASSUMED TO BE AT ITS HIGHEST SETTING.
19. THE POWER SUPPLIES SHALL BE ADEQUATE TO SERVE ALL CONTROL PANELS, REMOTE MODULES, SMOKE DAMPERS, AND OTHER FIRE ALARM DEVICES AND SHALL BE SIZED FOR A MINIMUM OF 75% SPARE CAPACITY, INCLUDING BATTERIES.
20. PROVIDE ISOLATION MODULES TO PROTECT FIRE ALARM CIRCUITS. AT A MINIMUM, PROVIDE ONE ISOLATION MODULE PER 25 ADDRESSABLE DEVICES, AND AT EACH TAP LOACTION ON CLASS B CIRCUITS.
21. A FIRE ALARM EVENT SHALL CAUSE THE HOUSE LIGHTS IN THE THEATER TO BE BROUGHT UP TO FULL BRIGHTNESS, AND SHALL ALSO SHUT OFF THEATER PROJECTION AND SOUND SYSTEMS. WHERE THESE SYSTEMS EXIST.
22. SUBMIT A LETTER ATTESTING TO 100% ACCEPTANCE TEST OF FIRE ALARM SYSTEM PRIOR TO REQUESTING LOCAL FIRE DEPARTMENT INSPECTION AND ACCEPTANCE TESTING.
23. WIRE NOTIFICATION APPLIANCES IN BUILDING SO THAT DEVICES ALTERNATE BETWEEN NOTIFICATION CIRCUITS.
24. AUDIBLE VOICE CIRCUITS SHALL BE WIRED ON TWO CIRCUITS PER AREA MINIMUM. AUDIO CIRCUITS AND AMPLIFIERS SHALL BE SIZED TO ALLOW SPEAKERS TAPPED AT 2 WATTS EACH PLUS 50% SPARE CAPACITY.
25. PROVIDE 120-VOLT POWER FROM EACH LOCAL STAND-BY ELECTRICAL BRANCH CIRCUIT PANELBOARD TO EACH 120V CONTROL MODULE.
26. PROVIDE NEW FIRE ALARM MUNICIPAL LOOP CONNECTION VIA SIGCOM 4 ZONE RADIO MASTER BOX AND CENTRAL STATION AS REQUIRED BY THE FIRE DEPARTMENT.
27. PROVIDE CONNECTION TO FIRE ALARM SYSTEM FOR CARBON MONOXIDE ALARM PROVIDED BY HVAC CONTRACTOR. UPON ACTIVATION SEND SUPERVISORY "CO" SIGNAL TO FACP AND PROVIDE LOCAL ALARM.
28. PROVIDE CONNECTION TO FIRE ALARM SYSTEM FOR NITRIC OXIDE ALARM PROVIDED BY HVAC CONTRACTOR. UPON ACTIVATION SEND SUPERVISORY "NO" SIGNAL TO FACP AND PROVIDE LOCAL ALARM.
29. AUDIBLE DEVICES SHALL BE SET FOR THE MINIUM dB LEVELS:
    a. GENERAL AREAS - 95dB AT 10' (3M)
    b. CLASSROOMS AND SMALL ROOMS - 85dB AT 10' (3M)
    c. MECHANICAL ROOMS, EQUIPMENT SPACES - 100dB AT 10' (3M)
    d. SET AS REQUIRED BY FIRE DEPARTMENT.
30. VISUAL DEVICES SHALL HAVE A MINIMUM EFECTIVE INGTENSITY RATING AS FOLLOWS:
    a. GENERAL - 75 CANDELA
    b. SLEEPING AREAS - 110 CANDELA
    c. ASSEMBLY AREAS - 110 CANDELAS
    d. ROOMS OVER 100' (30M) IN BOTH DIRECTIONS - 110 CANDELAS
    e. EXTERIOR - 110 CANDELAS (EXCEPT ROATATING BEACON IS 150,000 CANDELA)
    f. SET AS REQUIRED BY FIRE DEPARTMENT.

A2	Fire Alarm Riser Diagram
NOT TO SCALE	

3 Fire Alarm Riser Diagram
SCALE: 1/4" = 1'-0"

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
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KEY PLAN:

N TRUE

DRAWING TITLE:
FIRE ALARM RISER DIAGRAM & DETAILS

DRAWN BY: JMH	SEAL:
CHECKED BY: RDM	
SCALE: 1/4" = 1'-0"	
PROJECT NO.: 21-125-2125.04	

DRAWING NO.:
FA-100

PROJECT LOCATION:
IBM 360://Town of Wayland On Call TASK ORDER#4/21-125-2125.04 - Wayland Senior Center - Elec.rvt

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BI-DIRECTIONAL AMPLIFIER SYSTEM NOTES:

1. ELECTRICAL CONTRACTOR TO PROVIDE TESTING (SIGNAL SURVEY) TO DETERMINE THE NEED FOR A BDA SYSTEM. COORDINATE ALL REQUIREMENTS WITH THE FIRE DEPARTMENT PRIOR TO BID.
2. A SIGNAL SURVEY SHALL BE CONDUCTED ONCE THE PERMANENT MEMBRANE OF THE STRUCTURE IS SUBSTANTIALLY COMPLETE. SUBSTANTIAL COMPLETION INCLUDES PERMANENT WINDOWS, WALLS, ROOF AND OTHER MEANS OF ENTRY/EXIT FROM THE STRUCTURE LIKE GARAGE DOORS. THIS SIGNAL SURVEY IS CONDUCTED IS CONDUCTED TO DETERMINE IF SIGNAL LEVELS ARE WITHIN CODE REQUIRED THRESHOLDS IN-BUILDING.
3. SUBMIT REPORT INDICATING FINDINGS AND TEST DATA TO ENGINEER AND THE FIRE DEPARTMENT. MEET WITH THE FIRE DEPARTMENT AND OBTAIN DETERMINATION OF WHETHER THE BI-DIRECTIONAL AMPLIFIER SYSTEM IS REQUIRED FOR THE BUILDING. DOCUMENT THE FIRE DEPARTMENT MEETING AND SUBMIT MINUTES OF THE MEETING.
4. THE BI-DIRECTIONAL AMPLIFIER SYSTEM IS A DELEGATED DESIGN, REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.
5. FOR BIDING PURPOSES ASSUME THE BI-DIRECTIONAL AMPLIFIER SYSTEM IS REQUIRED AND WILL BE A UL2524 COMPLIANT SYSTEM. COVERAGE IS REQUIRED ON ALL FLOORS. (4) FREQUENCIES WILL BE REQUIRED (CHANNEL 1 THROUGH CHANNEL 4). PROVIDE ALL COST FOR A FULLY FUNCTIONAL, CODE COMPLIANT SYSTEM THAT MEETS ALL THE REQUIREMENTS OF THE FIRE DEPARTMENT.
6. BREAK OUT BI-DIRECTIONAL AMPLIFIER SYSTEM COST AS A LINE ITEM IN THE BID.
7. IF BI-DIRECTIONAL AMPLIFIER SYSTEM IS REQUIRED, SUBMIT THE DESIGN TO THE ENGINEER PRIOR TO INSTALLATION FOR APPROVAL. BI-DIRECTIONAL AMPLIFIER SHOP DRAWINGS SHALL BE SEALED BY PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
8. THIS DIAGRAM IS INTENDED TO ILLUSTRATE MAJOR EQUIPMENT AND THE INTENDED INTERCONNECTIONS. REFER TO THE BI-DIRECTIONAL AMPLIFIER SHOP DRAWINGS FOR EXACT LOCATIONS AND QUANTITIES OF DEVICES.

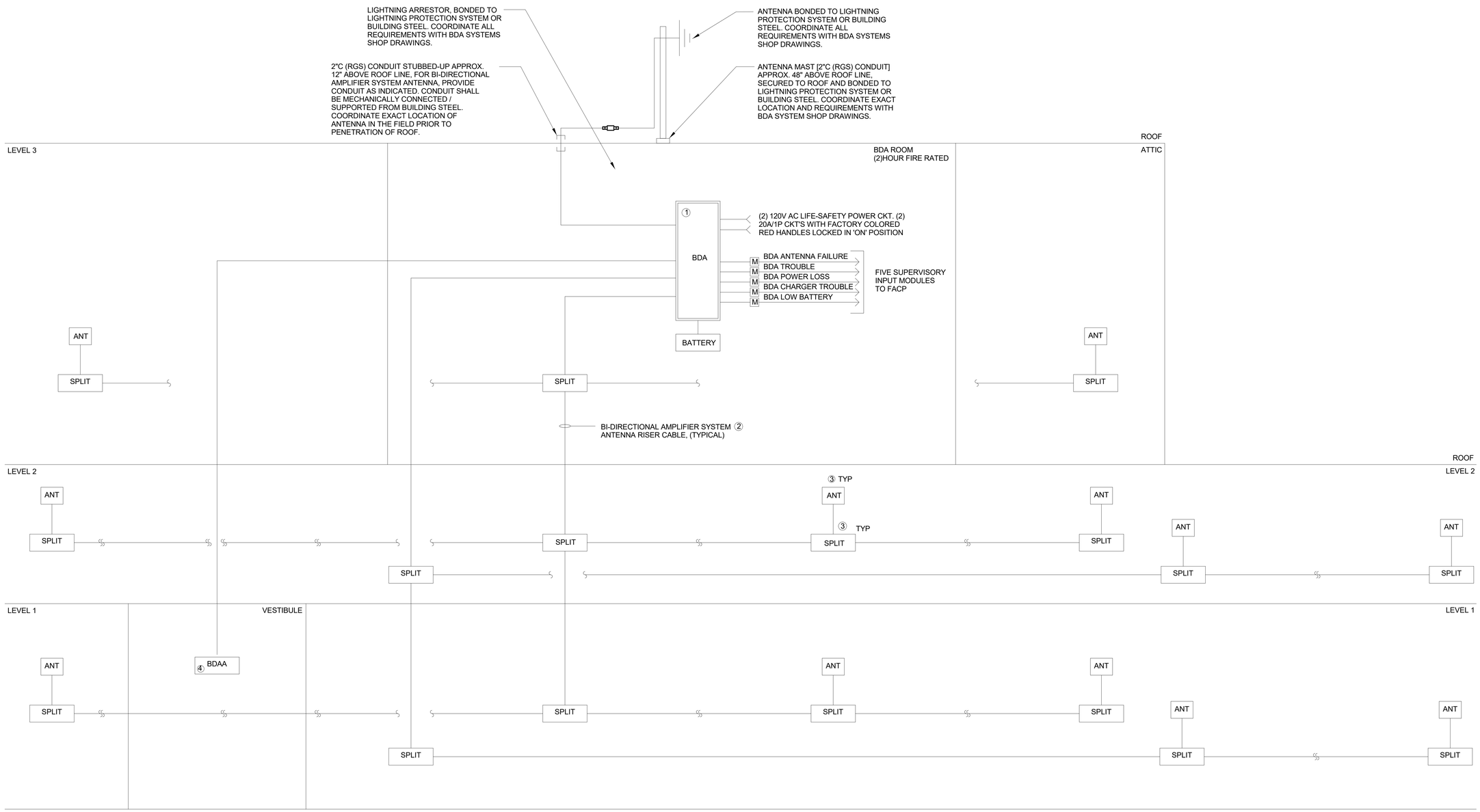
NUMBERED NOTES:

① UL1225 COMPLIANT BI-DIRECTIONAL AMPLIFIER SYSTEM.

② BI-DIRECTIONAL AMPLIFIER SYSTEM ANTENNA RISER CABLE TO BE PLENUM RATED AND 2 HOUR FIRE RATED.

③ REFER TO BI-DIRECTIONAL AMPLIFIER SHOP DRAWINGS FOR EXACT QUANTITY OF DEVICES.

④ BI-DIRECTIONAL AMPLIFIER ANNUNCIATOR. ELECTRICAL CONTRACTOR TO PROVIDE STANDARD 4" 2 GANG BOX, 8 CONDUCTOR 18-24 GA CABLE. BI-DIRECTIONAL AMPLIFIER VENDOR TO PROVIDE ANNUNCIATOR. COORDINATE WITH FIRE DEPARTMENT AND BI-DIRECTIONAL AMPLIFIER VENDOR FOR EXACT LOCATION AND ALL REQUIREMENTS.



1 Wayland Bi-Directional Amplifier System Riser Diagram
SCALE: N.T.S.

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
	10/05/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
Bi-Directional Amplifier System Riser Diagram

DRAWN BY: RDM
CHECKED BY: RDJ
SCALE: As indicated
PROJECT NO.: 21-125-2125.04

SEAL:

DRAWING NO.:
FA-110

PROJECT LOCATION:
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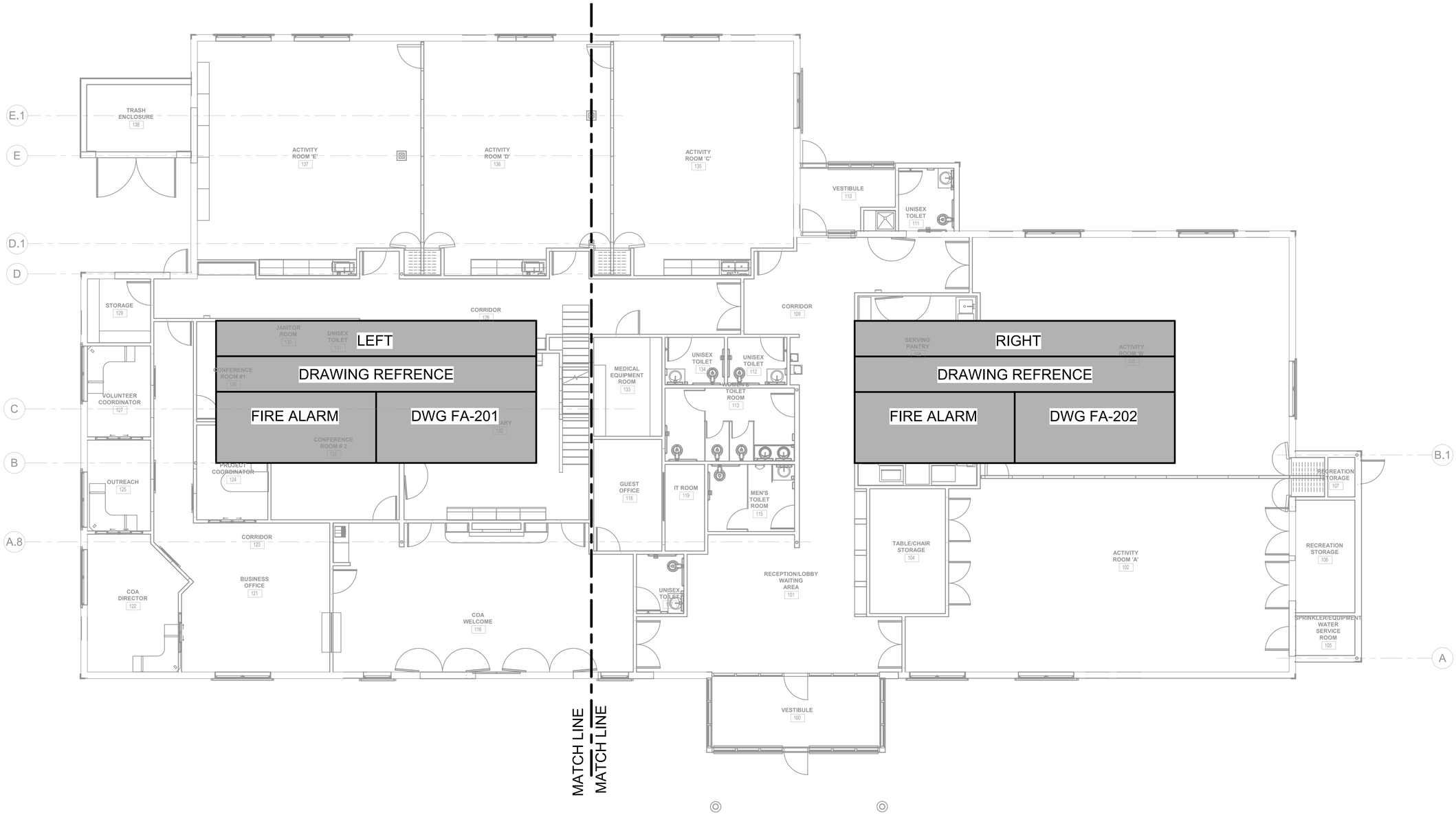

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
	10/05/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
FIRE ALARM FIRST FLOOR PLAN

DRAWN BY: JMH	SEAL:
CHECKED BY: RDM	
SCALE: As indicated	
PROJECT NO.: 21-125-2125.04	

DRAWING NO.:
FA-200

PROJECT LOCATION:
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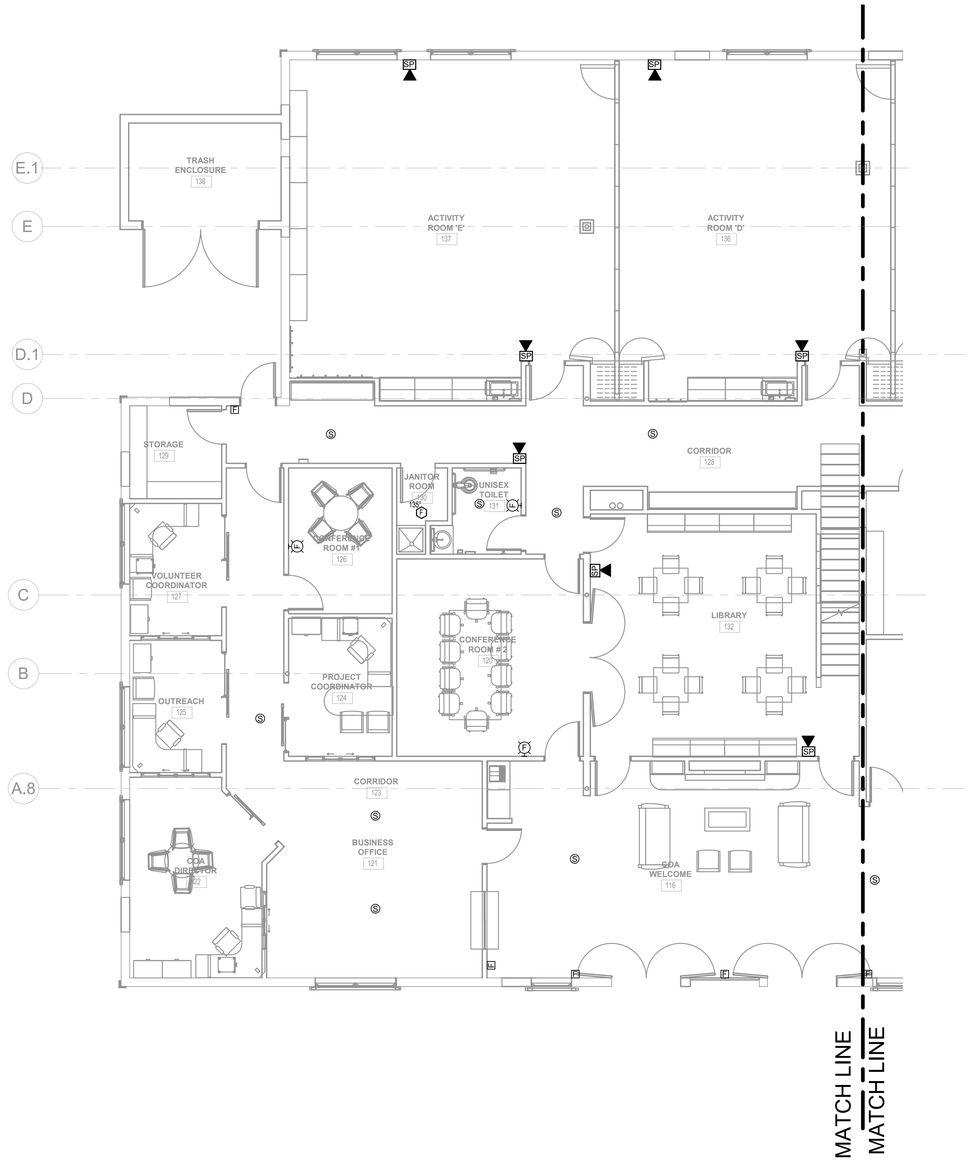

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
	10/05/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
FIRE ALARM FIRST FLOOR PLAN-LEFT

DRAWN BY: JMH	SEAL:
CHECKED BY: RDM	
SCALE: As indicated	
PROJECT NO.: 21-125-2125.04	

DRAWING NO.:
FA-201

PROJECT LOCATION:
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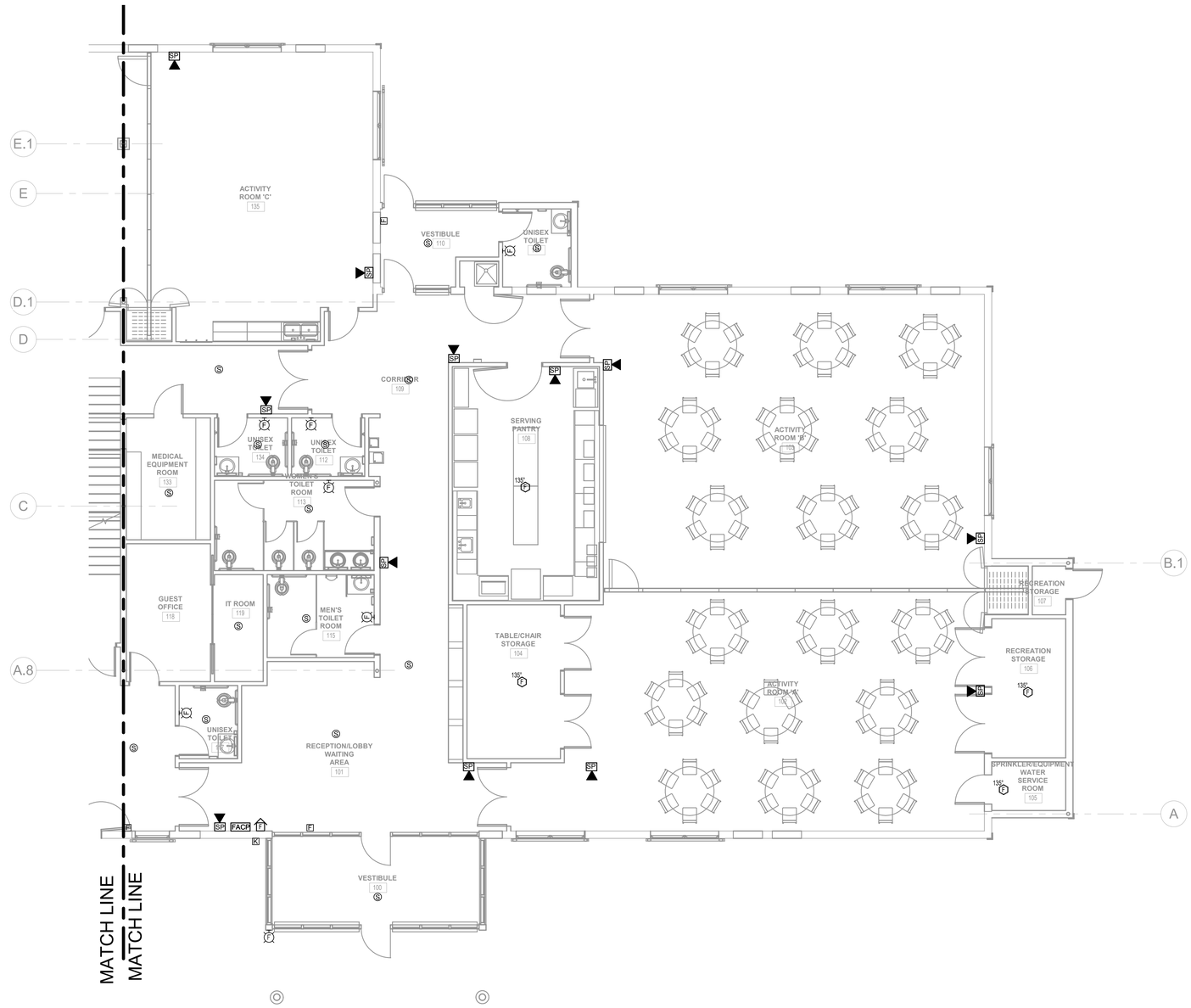

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ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
	10/05/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
FIRE ALARM FIRST FLOOR PLAN-RIGHT

DRAWN BY: JMH
CHECKED BY: RDM
SCALE: As indicated
PROJECT NO.: 21-125-2125.04

SEAL:

DRAWING NO.:
FA-202

PROJECT LOCATION:
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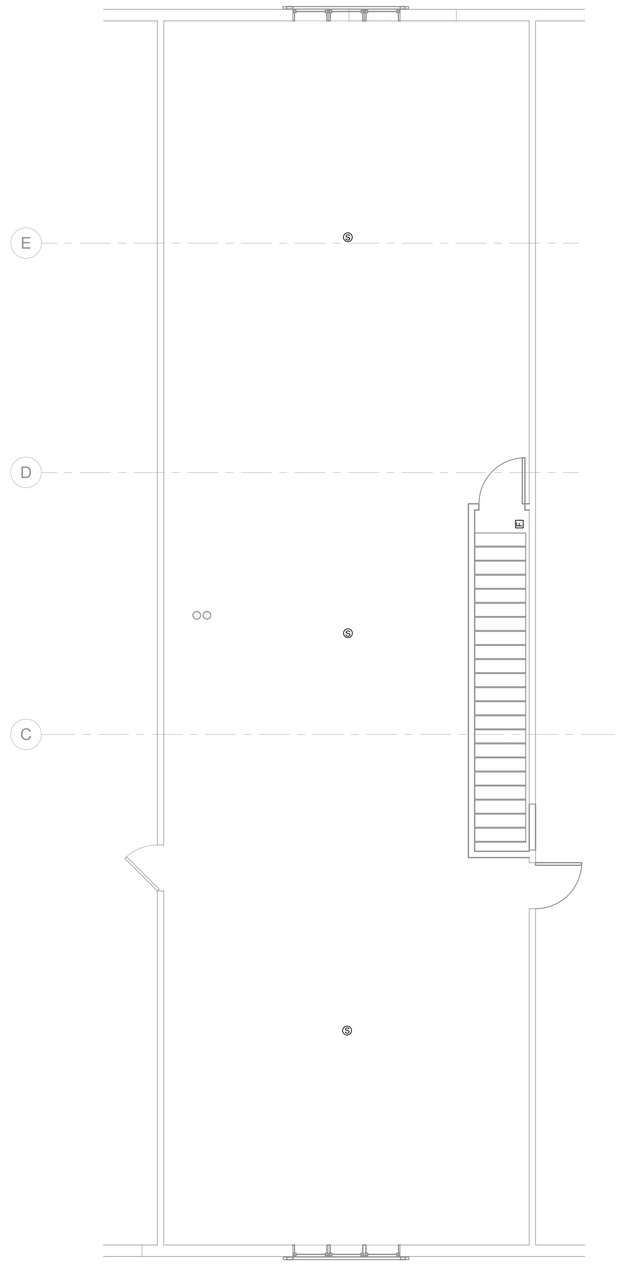

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
	10/05/2022	50% CD SET

KEY PLAN:

N TRUE

DRAWING TITLE:
FIRE ALARM MEZZANINE PLAN

DRAWN BY: JMH
CHECKED BY: RDM
SCALE: 1/4" = 1'-0"
PROJECT NO.: 21-125-2125.04

SEAL:

DRAWING NO.:
FA-210

PROJECT LOCATION:
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FIRE PROTECTION SYMBOL LIST

FS	NEW WET SPRINKLER PIPING
ETR FS	EXISTING TO REMAIN WET SPRINKLER PIPING
	EXISTING TO BE REMOVED/DEMOLISHED SPRINKLER PIPING
	NEW SIDEWALL SPRINKLER HEAD
	EXISTING SIDEWALL SPRINKLER HEAD
H	NEW UPRIGHT SPRINKLER HEAD, RATED AT 212°F
	NEW UPRIGHT SPRINKLER HEAD
	EXISTING UPRIGHT SPRINKLER HEAD
P	NEW CONCEALED PENDENT SPRINKLER HEAD-PREACTION
	NEW CONCEALED PENDENT SPRINKLER HEAD-ORDINARY TEMPERATURE
I	NEW CONCEALED PENDENT SPRINKLER HEAD-INTERMEDIATE TEMPERATURE
	EXISTING PENDENT SPRINKLER HEAD
	SPRINKLER WITH GUARD
	FIRE HOSE CABINET
	FIRE HOSE RACK
	FIRE HOSE RACK / SPRINKLER
	SIAMESE CONNECTION
	SIAMESE CONNECTION FREESTAND
	CHECK VALVE
	CHECK VALVE W/ ALARM
	WATER MOTOR ALARM BELL
	PIPE RISER
	PIPE DROP
	PIPE UP
	DRY PIPE VALVE
	POINT OF CONNECTION
	POINT OF DISCONNECTION
	SPRINKLER PLUG
FCVA	FLOOR CONTROL VALVE ASSEMBLY
	VALVE TAMPER SWITCH
	SOLENOID VALVE
	OS & Y VALVE
	BACKFLOW PREVENTER DOUBLE CHECK TYPE
	BACKFLOW PREVENTER REDUCED PRESSURE ZONE (RPZ) TYPE
4	REVISION SYMBOL
F2	REFER TO SUPPLEMENTAL FIGURE INDICATED BY NUMBER (I.E. F2 REFERS TO FIGURE 2)
XXX / X	EQUIPMENT TAG / EQUIPMENT NUMBER
X / X-XXX	DETAIL TAG/ CALL OUT TAG / FIRE PROTECTION SHEET NUMBER

ABBREVIATIONS

ACV	ALARM CHECK VALVE	NYS	NEW YORK STATE
B.O.P.	BOTTOM OF PIPE	P.C	PLUMBING CONTRACTOR
F.S.C.	FIRE SPRINKLER CONTRACTOR	W/	WITH

SPRINKLER HEAD SCHEDULE

COUNT	TYPE MARK	MARK	MANUFACTURER	MODEL	COMMENTS
7	FS	1	RELIABLE	F1FR	DOWN PENDANT

FIRE PROTECTION SAFETY NOTES:

1. SPECIAL PRECAUTION SHALL BE TAKEN BY THE CONTRACTOR SO THAT EQUIPMENT OF THIS APPLICATION AND ITS INSTALLATION WILL NOT AFFECT THE FOLLOWING: EGRESS TO AND FROM THE BUILDING. FIRE SAFETY OR CREATE A FIRE HAZARD. STRUCTURAL SAFETY OF THE BUILDING. ACCUMULATION OF DUST AND DEBRIS. (THE CONTRACTOR SHALL LEAVE THE SITE BROOM CLEANED EACH DAY.)

FIRE PROTECTION SPECIAL INSPECTIONS:

SPECIAL INSPECTIONS REQUIRED IN ACCORDANCE WITH CHAPTER 17 AND THE APPLICABLE SECTION OF MA STATE BUILDING CODE ARE LISTED IN THE FOLLOWING TABLES. THE "AUTHORITY" SHALL BE RESPONSIBLE FOR THE FOLLOWING SPECIAL INSPECTIONS:

PENETRATION FIRESTOP	BC 1705.17.1
FIRE RESISTANCE JOINT SYSTEMS	BC 1705.17.2

FIRE PROTECTION GENERAL NOTES:

1. DIMENSIONS, LOCATIONS AND SIZES INDICATED ON THE PLANS AND THE ELEVATION ARE APPROXIMATE AND SHALL BE VERIFIED BY FIELD INSPECTION BY THE CONTRACTOR.

2. SOME EXISTING PIPE AND EQUIPMENT IS SHOWN FOR CLARIFICATION OF THIS CONTRACT, BUT MUST BE PROTECTED BY THE CONTRACTOR.

3. NO WORK SHALL BE INITIATED UNTIL A WORK PERMIT IS OBTAINED BY THE CONTRACTOR AND A SAFETY PLAN IS SUBMITTED AND IS APPROVED.

4. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS, EQUIPMENT USE PERMITS, ALL INSPECTION APPROVALS, AND LETTER OF COMPLETION FROM THE NEW YORK CITY DEPARTMENT OF BUILDINGS FOR WORK UNDER THIS CONTRACT AS APPLICABLE.

5. ANY EXISTING MATERIALS, PIPING, ETC., NOT INDICATED FOR DEMOLITION WHICH ARE REMOVED BY THE CONTRACTOR IN ORDER TO INSTALL NEW WORK SHALL BE REINSTALLED BY THE CONTRACTOR. IF EXISTING WORK IS DAMAGED IT SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ALL SURFACES OR FINISHES THAT ARE DAMAGED OR OTHERWISE AFFECTED BY WORK OF THIS CONTRACT SHALL BE PATCHED, REPAIRED, PAINTED OR REPLACED TO MATCH THE PRE-EXISTING CONDITION AND THE NEW WORK.

6. CONTRACTOR MAY PROPOSE ALTERNATE ROUTING IN DIFFICULT AREAS WHERE REPLACEMENT IN KIND IS NOT PRACTICAL, ANY AND ALL ALTERNATE ROUTING IS SUBJECT TO PRIOR REVIEW AND APPROVAL BY THE ENGINEER.

7. A FIRE WATCH SHALL BE USED IF REQUIRED.

FIRE PROTECTION SPECIFICATIONS

15200.01 GENERAL

A. PROVISIONS OF THE GENERAL CONDITIONS AND SUPPLEMENTARY GENERAL CONDITIONS, WHETHER ATTACHED HERETO OR NOT, SHALL GOVERN ALL WORK UNDER THESE SECTIONS.

15200.02 SCOPE OF WORK

A. IT IS THE INTENT OF THESE SPECIFICATIONS TO FURNISH AND INSTALL A COMPLETE WET PIPE
SPRINKLER PROTECTION SYSTEM FOR THE BUILDING AND A DRY SYSTEM FOR THE ATTIC, INCLUDING VALVES, SIAMESE CONNECTIONS, RISERS, AND ALARMS AS REQUIRED.

B. ALL AREAS SHALL BE SPRINKLED WITH WET-PIPE SYSTEMS. THE ATTIC WILL HAVE A DRY SYSTEM.
EXTERIOR CANOPIES AND OPEN AREAS WILL NOT BE SPRINKLED UNLESS REQUIRED BY THE INSURANCE CARRIER OR OTHER AUTHORITIES HAVING JURISDICTION.

C. ALL UNHEATED SPACES WITHIN THE WET SYSTEM PART OF THE BUILDING SHALL BE PROTECTED WITH 1" INSULATION AND HEAT TRACING AT 8 WATTS PER FT. ANTIFREEZE LOOPS SHALL NOT BE PERMITTED.

D. SYSTEMS SHALL BE DESIGNED AND INSTALLED IN STRICT COMPLIANCE WITH NFPA STANDARD NO. 13 AND ALL STATE AND LOCAL CODES HAVING JURISDICTION.

E. ALL ELECTRICAL REQUIREMENTS FOR FIRE PROTECTION AND SPRINKLER SYSTEM ARE TO BE INSTALLED UNDER A SEPARATE CONTRACT.

15200.03 SHOP DRAWINGS

A. IT IS THE RESPONSIBILITY OF THE F.S.C. TO PROVIDE DETAILED DRAWINGS, SPECIFICATIONS &
CALCULATIONS OF THE SPRINKLER SYSTEM(S) & SHOP DRAWINGS OF EQUIPMENT, STAMPED & APPROVED BY AUTHORITIES HAVING JURISDICTION, INCLUDING FIRE MARSHALL & INSURANCE UNDERWRITERS, ARE REQUIRED FOR THIS WORK. DRAWINGS & CALCULATIONS SHALL BE PREPARED, SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER, & SHALL COMPLY WITH NFPA 13, CHAPTER 1-9, "WORKING PLANS". SHOW ON ALL DRAWINGS THE INFORMATION REQUESTED BY LOCAL AUTHORITIES.

B. INDICATE ALL DUCTWORK, LIGHTS AND OTHER OBSTRUCTIONS ON SHOP DRAWINGS TO SHOW
PROPER INSTALLATION OF ALL SPRINKLER WORK. LABEL ALL INTERIOR, EXTERIOR AND UNHEATED AREAS FOR REVIEW CLARIFICATION. PROPER FREEZE PROTECTED SYSTEMS SHALL BE PROVIDED AS REQUIRED.

C. SUBMIT SUFFICIENT COPIES OF ALL DETAILED SHOP DRAWINGS TO ALL GOVERNING AUTHORITIES
AND INSURANCE UNDERWRITERS TO ALLOW A FINAL SUBMITTAL TO OWNER OF SIX (6) COMPLETE SETS BEARING ALL APPROVAL STAMPS.

D. DO NOT SUBMIT DRAWINGS TO OWNER THAT DO NOT BEAR ALL REQUIRED APPROVAL STAMPS.

E. NO WORK SHALL BE INSTALLED UNTIL SHOP DRAWINGS, AS DESCRIBED ABOVE, HAVE BEEN REVIEWED AND APPROVED BY THE OWNER AND TENANT.

15200.04 WORKMANSHIP AND INSTALLATION

A. ALL SPRINKLER WORK MUST BE DONE BY A LICENSED SPRINKLER CONTRACTOR, APPROVED BY THE INSURANCE CARRIER AND LICENSED BY LOCAL AUTHORITIES.

B. NO WORK SHALL BE DONE UNTIL ALL SPRINKLER PLANS ARE APPROVED.

C. FURNISH ALL MATERIALS, LABOR, TOOLS, EQUIPMENT & SUPERVISION REQUIRED FOR THE INSTALLATION OF COMPLETE SYSTEMS & ALL NECESSARY PIPING, SPRINKLER HEADS, TEST CONNECTIONS, VALVES, DRAINS & SPRINKLER ALARMS, FLOW SWITCHES, HORNS OR GONGS, DETECTOR CHECK VALVES, SIAMESE FIRE DEPARTMENT CONNECTIONS, PRESSURE GAUGES, AND OTHER REQUIRED COMPONENTS.

D. ALL SPRINKLER PIPING SHALL BE CONCEALED IN ALL FINISHED AREAS AVOIDING INTERFERENCE WITH LIGHTS, DUCTS, PIPES, ETC. BALANCE MAY BE RUN EXPOSED WHERE HEADS CONFLICT WITH LUMINARIES. LUMINARIES TAKE PRECEDENCE.

E. CUTTING AND NOTCHING OF JOISTS IS NOT ACCEPTABLE.

F. SPRINKLER PIPING SHALL BE INSTALLED AT MAXIMUM HEIGHT ABOVE FLOOR AND A MINIMUM OF 12" ABOVE FINISHED CEILING TILES IN ALL LOCATIONS THROUGHOUT ENTIRE BUILDING UNLESS OTHERWISE SHOWN.

G. DO NOT HANG OR SUPPORT PIPE FROM TOP DECK.

H. ALL SPRINKLER MAINS 6" OR LARGER, WHEN PARALLEL WITH STRUCTURAL FRAMING, MUST BE SUPPORTED FROM TWO OR MORE STRUCTURAL MEMBERS.

I. SPRINKLER HEADS SHALL BE INSTALLED MAXIMUM OF 6" FROM CENTER OF CEILING TILES AND MINIMUM OF 3' FROM CEILING DIFFUSERS, RETURN AIR GRILLE, LIGHTING FIXTURES OR "J" BAR CONSTRUCTION. SEE REFLECTED CEILING PLANS.

J. SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONTROL WIRING AS SHOWN ON DRAWINGS AND CONTROL APPARATUS AS HERE IN AFTER SPECIFIED.

K. SPRINKLER CONTRACTOR SHALL CONSULT WITH WATER COMPANY AND PROVIDE ALL REQUIRED PIPING AND EQUIPMENT. ALL REQUIRED EQUIPMENT AND PIPING SHALL BE THE RESPONSIBILITY OF THE SPRINKLER CONTRACTOR. METER-BACK FLOW PREVENTERS FOR FIRE SERVICE SHALL BE FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR.

L. ALL INTERIOR PIPING TO BE OF SCHEDULE 10 BLACK STEEL PIPE WITH MECHANICAL-JOINT (VICTAULIC) FITTINGS OR SCHEDULE 40 WITH THREADED FITTINGS OF TYPE AS RECOMMENDED BY THE INSURANCE UNDERWRITER. ALL MATERIALS SHALL BE NEW, OF THE BEST QUALITY AND OF TYPE AS RECOMMENDED BY THE INSURANCE UNDERWRITER. ALL MATERIALS SHALL BE NEW, OF THE BEST QUALITY AND WITH THE SAME BRAND OR MANUFACTURER USED FOR EACH CLASS OF MATERIAL. ALL VALVES SHALL BE UL TESTED & FACTORY MUTUAL APPROVED.

15200.05 PERMITS

A. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND PAY ANY AND ALL FEES.

15200.06 ALARMS

A. PROVIDE LOCAL ALARMS CONSISTING OF: WATER MOTOR GONG BY SPRINKLER CONTRACTOR. ELECTRIC BELL AND FLASHING RED LIGHT BY ELECTRICAL SUB-CONTRACTOR.

B. FURNISH AND INSTALL THE FOLLOWING: ONE (1) WATER FLOW DETECTION DEVICE, ONE (1) SUPERVISORY DEVICE ON SHUTOFF VALVE. NOTE: PROVIDE A PULL BOX IF MANDATORY PER THE LOCAL FIRE DEPARTMENT.

C. THE ELECTRIC WIRING FOR THE ALARM SYSTEM SHALL BE IN ACCORDANCE WITH NATIONAL BOARD OF FIRE UNDERWRITERS, PAMPHLET NO.72 AND NEC INSPECTED AND TESTED WITH REQUIREMENTS OF THE ASSOCIATED FACTORY MUTUALS. THE COST OF THIS ELECTRIC WIRING SHALL BE INCLUDED IN THE CONTRACT.

15200.07 FIRE DEPARTMENT SIAMESE HOSE CONNECTION

A. FIGURE #276, CATALOG #52 AS MADE BY W.D. ALLEN COMPANY OR ELKHART COMPANY #166 IN
CATALOG #62. THREADS TO MATCH LOCAL FIRE DEPARTMENT CONNECTIONS. LOCATE 1'-6" FROM
OUTSIDE FINISH GRADE TO CENTERLINE OF CONNECTIONS OR AS DIRECTED BY LOCAL FIRE DEPARTMENT.

15200.08 TEST DRAINS

A. ALL TEST DRAINS SHALL TERMINATE OUTSIDE THE BUILDING WHERE CODES PERMIT. OTHERWISE,
THEY SHALL RUN TO AN APPROVED WASTE RECEIVER WHICH CONNECTS TO THE SANITARY WASTE
SYSTEM.

15200.09 VALVE CHAIN AND PADLOCK

A. PROVIDE A CHAIN WITH WELDED EYES AND PADLOCK TO LOCK OPEN THE MAIN SPRINKLER CONTROL VALVES. CHAIN AND PADLOCK SHALL BE INSTALLED WHEN SPRINKLER SYSTEM HAS BEEN ACTIVATED.

15200.10 CERTIFICATION

A. WHEN COMPLETED, THE ENTIRE PIPING SYSTEM SHALL BE TESTED TO THE SATISFACTION OF THE FIRE MARSHALL AS REQUIRED BY THE RULES AND REGULATIONS OF THE AUTHORITIES HAVING JURISDICTION, AND MUST BE FREE OF LEAKS AND OTHER DEFECTS.

B. SPRINKLER CONTRACTOR MUST SUBMIT CERTIFICATION FROM THE INSURANCE CARRIER AND ANY OTHER AGENCIES HAVING JURISDICTION, INDICATING THAT THE SYSTEMS ARE APPROVED AS INSTALLED.

C. SUBMIT A TEST REPORT TO THE FIRE MARSHALL ON APPROVED FORMS.

15200.11 GUARANTEE

A. ALL EQUIPMENT AND WORKMANSHIP SHALL BE GUARANTEED AGAINST DEFECTIVE MATERIALS, LABOR, & IMPROPER DESIGN FOR A PERIOD OF ONE (1) YEAR AFTER ACCEPTANCE BY THE OWNER AND ARCHITECT.

B. SEE SUPPLEMENTARY GENERAL CONDITIONS FOR WARRANTY REQUIREMENTS.

C. THE CONTRACTOR SHALL PAY ALL APPLICATION AND LICENSING FEES AND MAINTAIN ALL LICENSES IN GOOD ORDER, RE-FILING WHERE REQUIRED BY THE FIRE MARSHALL.

FIRE PROTECTION NOTES

1. THE DRAWINGS SHOW THE LAYOUT OF THE SYSTEM AND INDICATE THE APPROXIMATE LOCATIONS OF EQUIPMENT AND PIPING. CONTRACTOR IS CAUTIONED NOT TO SCALE THE DRAWINGS. THE PIPING SHALL BE RUN APPROXIMATELY IN THE AREAS AS INDICATED ON THE DRAWINGS, (HOWEVER, TO THE ARRANGEMENT OF THE PIPING SYSTEMS AS MAY BE REFERENCED WITH WORK OF OTHER TRADES) CONTRACTOR SHALL REVIEW AND COORDINATE WITH STRUCTURAL, ELECTRICAL AND MECHANICAL DRAWINGS. PARTITIONS, STRUCTURAL MEMBERS, ETC. ARE DESIGNED TO BE FURRED OR CLOSED IN AND TO INCLUDE ROUGH-IN PIPING. CONTRACTOR SHALL FURNISH ALL OFFSETS, ADDITIONAL FITTINGS, ETC. WHETHER SHOWN ON DRAWINGS OR NOT, AS REQUIRED TO MEET INSTALLATION CONDITIONS.

2. CONTRACTOR IS TO COMPLY WITH LATEST NFPA AND N.Y.S. CODES, AND COORDINATE HIS WORK WITH OTHER TRADES AND MAKE NECESSARY ADJUSTMENTS.

3. CONTRACTOR IS TO PREPARE SHOP DRAWINGS FOR ENGINEERS REVIEW AFTER MAKING A COMPLETE FIELD SURVEY.

4. CONTRACTOR IS TO REPORT ANY CONDITION REQUIRING CHANGES FROM PLANS TO ENGINEER PRIOR TO STARTING WORK.

5. BRANCH LINES AND MAINS (1 1/2" OR LESS) - SCHEDULE 40 FM APPROVED

6. BRANCH LINES AND MAINS (2" OR LARGER) - THINWALL (THICKNESS LESS THEN SCHEDULE 40 MORE THEN SCHEDULE 10 & FM APPROVED)

7. HEAT BY OWNER THROUGHOUT INCLUDING CONCEALED SPACE, EXCEPT AS INDICATED.

8. SYSTEM TO BE TURNED ON AT END OF EACH WORK DAY.

9. CONTRACTOR IS TO PERFORM A HYDROSTATIC TEST FOR 2 HRS. @ 200 PSI WITH NO LEAKAGE AND PROVIDE A TEST CERTIFICATE TO ENGINEER

10. CONTRACTOR IS TO EMPLOY EXPERIENCED WORKMEN WHO ARE TO FAMILIARIZE THEMSELVES WITH THE BUILDING AND OBSERVE SAFETY REQUIREMENTS.

11. CONTRACTOR TO ADJUST HEAD LOCATION TO COORDINATE WITH LIGHTS, DUCTS, ETC.

12. PENDENT DEFLECTORS MIN 2" BELOW CEILING

13. PERMIT FROM LOCAL AUTHORITY, TO BE OBTAINED BY CONTRACTOR.

14. ALL WORK TO BE APPROVED BY OWNERS ENGINEER, STATE AUTHORITIES HAVING JURISDICTION AND MUNICIPAL FIRE, PLUMBING, BUILDING AND WATER DEPARTMENTS.

15. U.L. AND/OR FM APPROVED EQUIPMENT TO BE USED.

16. WORK TO BE IN ACCORDANCE WITH MUNICIPAL WATER DEPT. RULES.

17. SYSTEM IS TO BE MAINTAINED AND TESTED BY THE OWNER OR HIS AGENT IN ACCORDANCE WITH APPLICABLE LOCAL AND STATE CODES AND IN CONFORMANCE WITH NFPA 13A, LATEST EDITION.

18. IF BUILDING OCCUPANCY OR CONSTRUCTION CHANGES, THE SPRINKLER SYSTEM IS TO BE UPDATED ACCORDINGLY BY THE OWNER OR HIS AGENT.

19. CONTRACTOR IS TO NEATLY CUT AND PATCH IN A FIRST CLASS WORKMANLIKE MANNER, ALL HOLES AND PENETRATIONS IN WALLS, CEILINGS, FLOORS, PARTITIONS, ETC.

20. THE ENGINEER IS NOT RETAINED FOR SUPERVISION.

21. THE INSTALLATION OF THIS SYSTEM WILL REQUIRE THE CLOSING OF ONE OR MORE FIRE PROTECTION CONTROL VALVES. THESE VALVE CLOSURES SHOULD BE CLOSELY COORDINATED WITH THE OWNERS WHO SHOULD CONTACT THE LOCAL FIRE DEPARTMENT, INSURANCE INTERESTS, ETC. PRIOR TO VALVE CLOSURES.

22. ACTUAL DESIGN DENSITY MAY EXCEED STANDARDS, HOWEVER, IT IS A MINIMUM TO BE USED BY THE CONTRACTOR.

23. ALL ALARMS RELATING TO THE SPRINKLER SYSTEM SHOULD BE ACTIVATED UPON PLACING THE SPRINKLER SYSTEM IN SERVICE.

24. THE INSTALLATION COMPONENTS, SIZING, SPACING, MATERIALS LOCATION CLEARANCES, POSITION AND TYPE OF SYSTEM SHALL CONFORM TO NFPA 13 AND NYS UNIFORM FIRE PREVENTION BUILDING CODE LATEST EDITION

25. SPRINKLERS SHALL BE PROTECTED AGAINST FREEZING AND INJURY AS PER NFPA CODE.

26. INSPECTION AND TESTS OF SPRINKLER SYSTEM SHALL BE CONDUCTED AS SPECIFIED IN NFPA CODE.

27. WATER SUPPLY TEST PIPES AND GAUGES SHALL BE PROVIDED AS SPECIFIED IN CHAPTER 2-9 OF NPPA 13.

28. PIPING SPECIFICATIONS, PIPE SCHEDULES, SYSTEM TEST PIPES, PROTECTION AGAINST CORROSION, DAMAGE FITTINGS, VALVES, HANGERS, SPRINKLERS, GUARDS AND SHIELDS SHALL BE IN ACCORDANCE WITH CHAPTER 3 OF NFPA 13, LATEST EDITION.

29. STOCK OF EXTRA SPRINKLERS WILL BE FURNISHED AS PER CHAPTER 3 OF NFPA 13 (REQUIRED FOR EACH TEMPERATURE RATING).

30. SPRINKLER ALARMS WILL BE IN ACCORDANCE WITH NFPA 13.

31. SPACING, LOCATION AND POSITION OF SPRINKLERS SHALL BE IN ACCORDANCE WITH CHAPTER 4 OF NFPA 13.

32. ALL BLIND SPACES EXCEEDING 6 INCHES IN WIDTH OR DEPTH WHICH CONTAIN COMBUSTIBLE MATERIAL SHALL BE SPRINKLERED.

33. ALL PIPING PASSING THROUGH WALLS SHALL COMPLY WITH NFPA FOR FIRE PROOFING.

34. DISTANCE OF SPRINKLERS FROM HEAT SOURCES SHALL BE IN ACCORDANCE WITH TABLE 3-16.6.3 OF NFPA 13.

35. AUTOMATIC INTERLOCK CUTOFF SWITCH FOR VENTILATION SHALL BE BY HVAC FAN SHUTDOWN.

36. PROVIDE WATER SUPPLY LETTER WITH FLOW TEST DATA.

37. ALL PIPES PASSING THROUGH FOUNDATION WALLS TO BE PROTECTED.

38. ALL VALVES SHALL BE IDENTIFIED AS REQUIRED BY NFPA 13.

39. DRAINAGE TO CONFORM TO CHAPTER 3-11 OF NFPA 13.

40. A ONE PIECE REDUCING FITTING OF GOOD DESIGN SHOULD BE USED WHEREVER A CHANGE IS MADE IN THE SIZE OF PIPE AS PER SECTION 3-12.2.7 OF NFPA 13.

41. ALL VALVES ON CONNECTIONS TO WATER SUPPLIES AND IN SUPPLY TO SPRINKLERS SHALL BE APPROVED O.S. &Y. OR APPROVED INDICATOR TYPE WITH TAMPER SWITCHES.

42. DRAIN VALVES AND TEST VALVES SHALL BE APPROVED TYPE AS PER SECTION 3-14.1.2 OF NFPA 13.

43. HANGERS SHALL BE OF A TYPE APPROVED FOR USE WITH THE PIPE OR TUBE INVOLVED. SPRINKLER PIPING SHOULD BE SUPPORTED BY ADJUSTABLE HANGERS PER NFPA 13, SECTION 3-15.

44. PROVISIONS SHOULD BE MADE TO FACILITATE FLUSHING SYSTEM PIPING BY PROVIDING FLUSHING CONNECTIONS CONSISTING OF A CAPPED NIPPLE 4" LONG ON THE END OF THE CROSS MAIN, AS PER SECTION 3- 8.2 OF NFPA 13.

45. SPRINKLER SHALL BE AN APPROVED TYPE AS PER SECTION 3-16 OF NFPA 13.

46. TEMPERATURE RATING SHALL COMPLY WITH SEC. 3-16.6 OF NFPA 13.

47. CLEARANCES BETWEEN SPRINKLERS AND STORAGE OR PARTITIONS AS PER NFPA 13, SECTION 4-2.5.

48. SPACING AND LOCATION OF SPRINKLER SHALL COMPLY WITH CHAPTER 4 NFPA 13. OF

49. CONTRACTOR TO COORDINATE HIS WORK WITH OTHER TRADES.

50. HEAT IS TO BE PROVIDED THROUGHOUT THE ENTIRE AREA THAT PIPING, EQUIPMENT AND HEADS ARE INSTALLED.

51. ONLY EXPERIENCED SPRINKLER MECHANICS TO WORK ON THE SYSTEM.

52. ALL PIPING TO BE A MINIMUM OF 1" UNLESS OTHERWISE NOTED.

53. PROVIDE WATER SHIELDS OVER ALL / SURFACE MOUNTED ELECTRIC PANELS AND EQUIPMENT IN ELECTRICAL ROOMS PER NFPA & LOCAL FIRE MARSHALL REQUIREMENTS.

54. PROVIDE SHOP DRAWINGS WITH HYDRAULIC CALCULATIONS FOR REVIEW TO LOCAL FIRE MARSHALL AND INSURANCE UNDERWRITER AND ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.

55. ALL FIRE PROTECTION EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS/SPECIFICATIONS.

56. ALL FIRE PROTECTION EQUIPMENT SHALL BE MOUNTED ON MINIMUM 6" HIGH CONCRETE PAD UNLESS OTHERWISE NOTED (PAVER AND CINDER BLOCK IS NOT ACCEPTABLE).

SHOP DWGS/EQUIPMENT SUBMITTALS

THE CONTRACTOR IS RESPONSIBLE TO SUBMIT ALL ITEMS FOR REVIEW/APPROVAL BY NO MORE THAN 3 WEEKS AFTER THE CONTRACTOR'S CONTRACT/BID HAS BEEN AWARDED. ALL SUBMITTALS MUST BE SENT TOGETHER AS A **SINGLE PACKAGE** WITH MANUFACTURER'S SPECIFIC MODELS AND SPECIFICATIONS OUTLINED TO MATCH THE SCHEDULED REQUIREMENTS. EACH SUBMITTAL MUST BE LABELED WITH THE UNIT DESIGNATION USED WITHIN THIS DRAWING SET. IF THE SUBMITTAL PACKAGE IS FOUND TO BE INCOMPLETE UPON RECEIPT, THE PACKAGE WILL BE HELD AND WILL NOT BE REVIEWED UNTIL THE REMAINDER OF THE PACKAGE IS RECEIVED. ALL SHOP DRAWINGS AND SUBMITTALS SHALL BE SUBMITTED ELECTRONICALLY TO THE ENGINEER FOR REVIEW. CONTRACTOR SHALL NOT PURCHASE OR INSTALL ANY EQUIPMENT UNTIL WRITTEN ACCEPTANCE IS OBTAINED FROM THE ENGINEER.

NOTE: REFER TO SPECIFICATIONS FOR FURTHER SHOW DRAWING REQUIREMENTS. IF CONFLICTS ARISE, CONTACT DESIGN ENGINEER BEFORE FABRICATION.

SCOPE OF WORK:

1. THE INSTALLATION OF NEW WET FS SYSTEM.

2. PROPOSED FIRE SPRINKLER HEAD LOCATIONS AND PIPING ARE AS NOTED ON PLANS. EXACT PIPING FROM THE FIRE SPRINKLER MAIN TO ALL HEADS IS TO BE COORDINATED AND HYDRAULICALLY CALCULATED BY THE F.S.C. & SUBMITTED TO THE ENGINEER FOR APPROVAL.

NOTE: THIS SCOPE OF WORK DESCRIPTION IS PROVIDED TO GIVE AN OVERALL "MACRO" DESCRIPTION OF THIS PROJECT. F.S.C. IS RESPONSIBLE TO REVIEW ALL ENGINEERING AND ARCHITECTURAL DRAWINGS AND VISIT THE SITE IF NEEDED, PRIOR TO SUBMISSION OF BID.

DOB DISCLAIMER NOTE:

*THIS PLAN APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:

KEY PLAN:

N TRUE

DRAWING TITLE:
FIRE PROTECTION NOTES, SYMBOLS, & NOTES

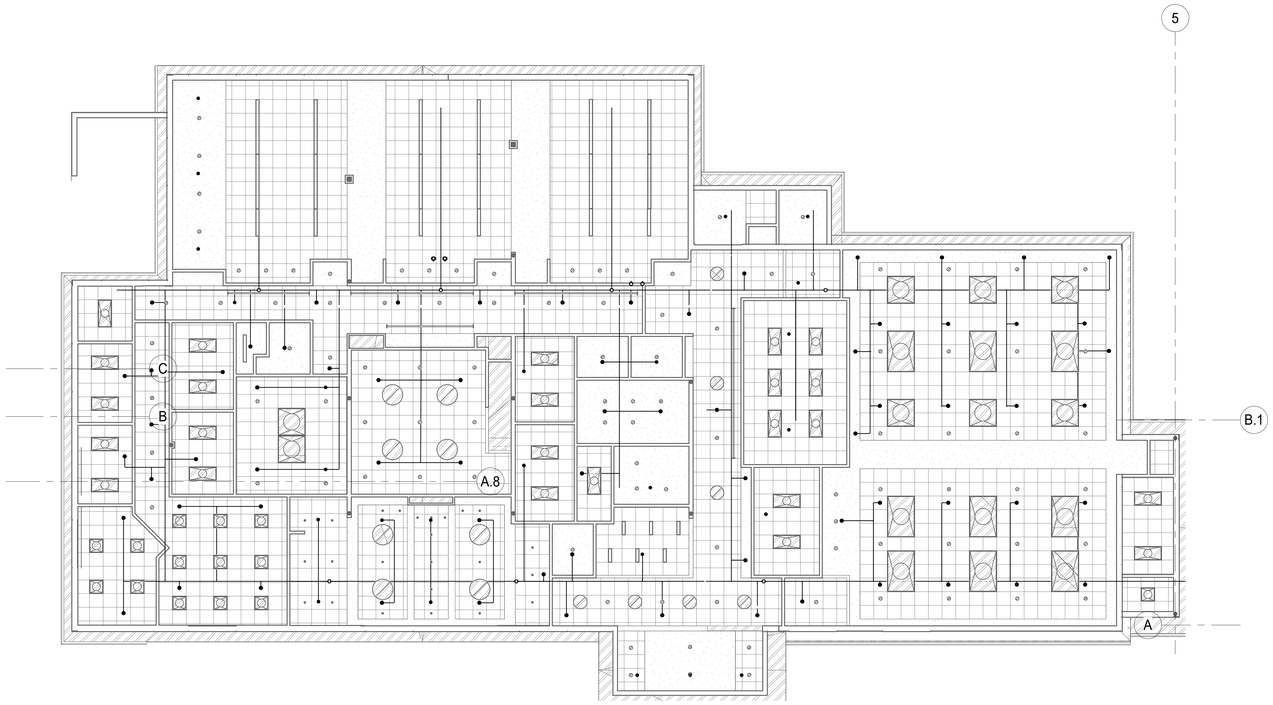
DRAWN BY: Author
CHECKED BY: Checker
SCALE: 1/8" = 1'-0"
PROJECT NO.: 21-125-2125.04

SEAL:

DRAWING NO.:
FP-001

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/21-125-2125.04 - Wayland Senior Center - PLU-FP V19.rvt

DATE & TIME PRINTED: 10/5/2022 1:02:00 PM



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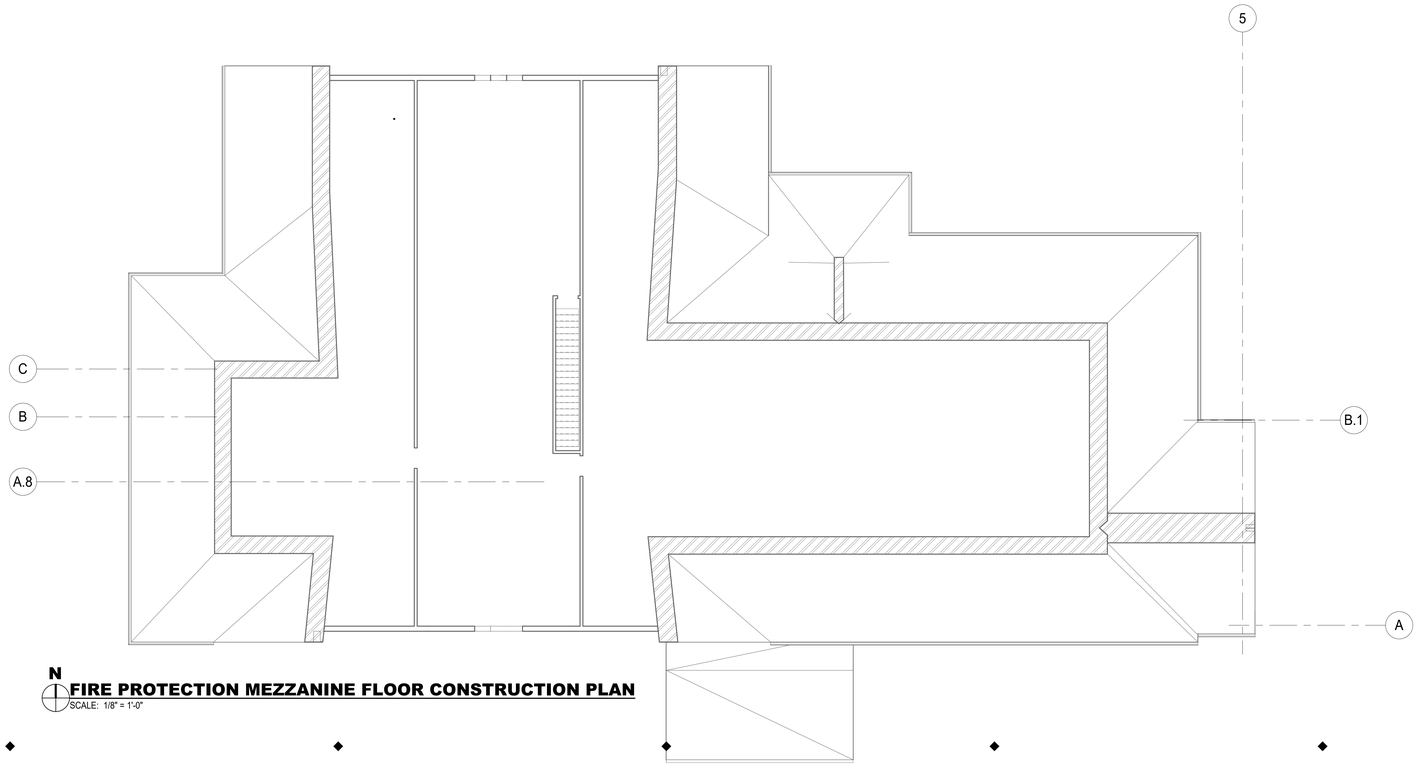
FIRE PROTECTION GROUND FLOOR CONSTRUCTION PLAN

SCALE: 1/8" = 1'-0"



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FIRE PROTECTION MEZZANINE FLOOR CONSTRUCTION PLAN

SCALE: 1/8" = 1'-0"

FIRE PROTECTION CONS. NOTES

1. XXX
2. XXX
3. XXX

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ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:

KEY PLAN:

N TRUE

DRAWING TITLE:
FIRE PROTECTION CONSTRUCTION PLAN

DRAWN BY: Author
CHECKED BY: Checker
SCALE: As indicated
PROJECT NO.: 21-125-2125.04

SEAL:

DRAWING NO.:
FP-201

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#6/21-125-2125.04 - Wayland Senior Center - PLU/FP V19.rvt.

DATE & TIME PRINTED: 10/5/2022 1:02:04 PM

HVAC DEMOLITION NOTES

1. THE EXISTING SYSTEMS AND EQUIPMENT, AS DOCUMENTED WITHIN THIS DRAWING PACKAGE, ARE BASED UPON AVAILABLE RECORD DRAWINGS AND/OR LIMITED FIELD OBSERVATION BY THE ENGINEER(S). CONTRACTOR SHALL BE ADVISED THAT ACTUAL EXISTING CONDITIONS MAY DIFFER FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL INCLUDE IN HIS BID A REASONABLE ALLOWANCE FOR ACCOMMODATING UNFORESEEN CONDITIONS IN THE FIELD AT NO ADDITIONAL COST TO THE OWNER. ALLOWANCE SHALL BE ALIGNED WITH FIELD CONDITIONS OBSERVED BY CONTRACTOR PRIOR TO SUBMITTING BID.
2. CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING FINAL PRICING. DURING VISIT, CAREFULLY EXAMINE SITE TO IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT WORK OF THIS SECTION. NO EXTRA PAYMENT WILL BE ALLOWED FOR ADDITIONAL WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY CONSTRUED BY AN EXPERIENCED OBSERVER. SITE VISIT IS PARTICULARLY CRITICAL WHEN DOING RENOVATION WORK.
3. PROVIDE ADVANCED NOTICE AND OBTAIN APPROVAL FROM OWNERS FACILITY PERSONNEL A MINIMUM OF TWO WEEKS PRIOR TO ANY SHUT-DOWN OF SERVICES OR DISRUPTION TO OCCUPANTS USE OF THE BUILDING. CRITICAL BUILDING SERVICES MAY REQUIRE ADDITIONAL ADVANCED NOTICE TIME. CONSTRUCTION SCHEDULE SLIP DUE TO LACK OF UNDERSTANDING OF BUILDING OWNER'S SHUTDOWN PROCEDURES ARE NOT ACCEPTABLE.
4. CONTRACTOR SHALL TAKE CARE DURING THE DEMOLITION OF INDICATED SYSTEMS, AS NOT TO DAMAGE OR INTERRUPT ADJACENT BUILDING SYSTEMS AND SERVICES TO REMAIN. DAMAGE TO EXISTING SYSTEMS AND EQUIPMENT CAUSED BY THIS CONTRACTOR DURING DEMOLITION OF THEIR SCOPE OF WORK SHALL BE REPAIRED AND/OR REPLACED AT THIS CONTRACTOR'S EXPENSE.
5. COORDINATION DEMOLITION WORK WITH OTHER TRADES SO THAT COMPONENTS ARE DISCONNECTED AND REMOVED PROPERLY AND IN A SAFE MANNER.
6. THIS DRAWING SHALL BE CONSIDERED DIAGRAMMATIC AND DOES NOT INDICATE THE FULL EXTENT OF DUCTWORK, PIPING, AND ANCILLARY COMPONENTS TO BE REMOVED. EQUIPMENT AND SYSTEMS INDICATED FOR DEMOLITION SHALL INCLUDE ALL CONNECTED DUCTWORK, PIPING, CONTROLS, ELECTRICAL CONDUITS AND DISCONNECTS, LOW VOLTAGE WIRING, SUPPORTS/ATTACHMENTS, AND ANY OTHER ASSOCIATED ANCILLARY DEVICES SHOWN OR NOT SHOWN AS REQUIRED TO COMPLETE THE INTENTION OF THE DEMOLITION WORK OF THIS CONTRACT. COORDINATE REMOVAL OF ELECTRICAL POWER FEEDS WITH ELECTRICAL CONTRACTOR FOR PROPER REMOVAL AND RELABELING AT POWER PANEL.
7. EQUIPMENT INDICATED FOR DEMOLITION WITH REFRIGERANT SHALL BE EVACUATED, COLLECTED, AND RETURNED TO EPA LICENSED REFRIGERANT RECLAIM FACILITY IN ACCORDANCE WITH EPA GUIDELINES.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION OF MECHANICAL EQUIPMENT AND MATERIAL RELATING TO THEIR RESPECTIVE TRADE.
9. THE CONTRACTOR SHALL REMOVE, RELOCATE, REPLACE, ADJUST, ADAPT AND MODIFY EXISTING EQUIPMENT AND/OR SYSTEMS AS REQUIRED WHEN SUCH WORK IS UNCOVERED AND FOUND TO INTERFERE WITH COMPLETION OF WORK IN THIS CONTRACT OR OTHER CONTRACT WORK.
10. EXECUTE THE DEMOLITION IN CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE DISTURBANCE TO THE PUBLIC, EGRESS OR THE FUNCTIONING OF THE EXISTING BUILDING.
11. TAKE NECESSARY PRECAUTIONS TO PREVENT DUST AND DIRT FROM RISING BY WETTING DEMOLISHED DEBRIS. EXCESSIVE USE OF WATER WILL NOT BE PERMITTED.
12. PRIOR TO DEMOLITION, CONTRACTOR SHALL REVIEW WITH OWNER ALL MATERIALS TO BE REMOVED, SHOULD THE OWNER WANT TO KEEP ANY MATERIALS THE CONTRACTOR SHALL REMOVE AND DELIVER THE PARTS TO THE OWNER ON THE SITE WHERE SO DIRECTED. OTHERWISE ALL DEMOLISHED OR REMOVED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND BE DISPOSED OF IN A LEGAL MANNER.
13. DEMOLITION SHALL INCLUDE REMOVAL OF ALL PARTS AND PIECES IN THEIR ENTIRETY BACK TO POINTS INDICATED OR IF NOT INDICATED BACK TO THEIR POINT OF SOURCE.
14. WHERE CONDITIONS PROHIBIT TOTAL REMOVAL OF THE WORK, THE REMAINING PORTION SHALL BE CUT FLUSH WITH THE SURROUNDING SURFACE AND BE CAPPED, PLUGGED OR SEALED AND THE SURROUNDING SURFACE SHALL BE REFINISHED IN AN APPROVED MANNER.
15. DO NOT REMOVE EXISTING STRUCTURAL WORK. DO NOT REMOVE OPERATIONAL ELEMENTS AND SAFETY-RELATED COMPONENTS IN A MANNER RESULTING IN A REDUCTION OF CAPACITIES TO PERFORM IN THE MANNER INTENDED OR RESULTING IN DECREASED OPERATIONAL LIFE, INCREASED MAINTENANCE, OR DECREASED SAFETY.
16. REMOVALS, DISCONNECTIONS, AND RELOCATIONS SHALL BE PERFORMED BY WORKMEN SKILLED IN THE TRADE INVOLVED AND SHALL BE EMPLOYED BY A CONTRACTOR LICENSED IN THE TRADE INVOLVED. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ACCEPTED TRADE PRACTICES.
17. PROVIDE ADEQUATE TEMPORARY SUPPORT FOR WORK TO REMAIN, TO PREVENT FAILURE. DO NOT ENDANGER OTHER WORK.
18. PROTECTION: PROVIDE ADEQUATE PROTECTION WHERE REQUIRED FOR THE PRESENT BUILDING AND ITS CONTENTS. TEMPORARY DUSTPROOF BARRIERS AND BARRICADES SHALL BE ERECTED WHERE REQUIRED FOR PROTECTION OF PERSONNEL, PROTECTION FROM DUST AND DIRT, FOR SECURITY, FIRE AND WEATHER PROTECTIVE REASONS.
19. CONTRACTOR SHALL TAKE EVERY PRECAUTION AGAINST FIRE BY EMPLOYING FIRE DEPARTMENT TYPE HOSES AND PORTABLE FIRE EXTINGUISHERS AS REQUIRED BY OSHA AND/OR THE OWNER'S INSURANCE UNDERWRITER.
20. BEFORE STARTING DEMOLITION OPERATIONS, PROVIDE THE NECESSARY PROTECTIVE DEVICES, WHERE REQUIRED, AND IN STRICT ACCORDANCE WITH OSHA RULES AND REGULATIONS.
21. USE TEMPORARY ENCLOSURES, OR OTHER SUITABLE METHODS TO LIMIT DUST AND DIRT RISING AND SCATTERING TO LOWEST PRACTICAL LEVEL. COMPLY WITH GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
22. ALL EXISTING EQUIPMENT REQUIRED TO BE REUSED SHALL BE CLEANED, RECONDITIONED, CALIBRATED AND ADJUSTED. IN ALL INSTANCES WHERE CONTRACTOR FINDS THAT EXISTING EQUIPMENT IS DEFECTIVE TO THE POINT WHERE IT CANNOT BE PROPERLY RESTORED AND WILL NOT OPERATE PROPERLY, HE SHALL REPORT THE SPECIFIC INSTRUMENTS OR EQUIPMENT TO THE ARCHITECT/ENGINEER FOR DIRECTIONS.
23. CONTRACTOR SHALL ESTABLISH A PATH OF TRAVEL AND TIME SCHEDULE FOR THE REMOVAL OF ALL DEBRIS AND WASTE, AND HAVE THIS APPROVED BY OWNER. CONTRACTOR IS TO ENSURE THAT ALL CORRIDORS AND PUBLIC AREAS BE KEPT FREE OF OBSTRUCTIONS, DEBRIS, AND ARE TO BE BROOM SWEPT CLEAN AT ALL TIMES.

HVAC GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE PURCHASED AND INSTALLED IN ACCORDANCE WITH ALL NATIONAL & MASSACHUSETTS STATE CODES AND REGULATIONS (AS WELL AS ALL APPLICABLE LOCAL CODES & REGULATIONS). THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL HVAC WORK IS PROVIDED AND INSTALLED IN STRICT ACCORDANCE WITH SEISMIC REQUIREMENTS.
2. DO NOT SCALE FROM THESE DRAWINGS.
3. THE EXACT MOUNTING HEIGHTS AND LOCATIONS OF ALL HVAC EQUIPMENT SHALL BE FIELD VERIFIED AND COORDINATED WITH ALL OTHER MECHANICAL, ELECTRICAL, PLUMBING, FIRE SPRINKLER, ARCHITECTURAL AND STRUCTURAL SYSTEMS. DURING SHOP DRAWINGS SUBMISSIONS, SHOW ALL MOUNTING HEIGHTS OF DUCTWORK, UNITS, ETC.
4. THE FINISH AND COLOR OF THE AIR DEVICES, AND ALL OTHER EXPOSED HVAC EQUIPMENT SHALL BE COORDINATED WITH THE ARCHITECT.
5. VERIFY ALL EQUIPMENT VOLTAGES PRIOR TO ORDERING EQUIPMENT.
6. PROVIDE PHASE LOSS PROTECTION FOR ALL POLY-PHASE MOTOR DEVICES.
7. THE FINAL LOCATION OF AIR DEVICES MUST BE COORDINATED WITH THE REFLECTED CEILING PLAN AND ALL OTHER MECHANICAL, ELECTRICAL, SPRINKLER, ARCHITECTURAL AND STRUCTURAL SYSTEMS.
8. DUCT SIZES MUST BE VERIFIED FOR CLEARANCES AT THE JOB SITE PRIOR TO FABRICATION. DIMENSIONS MAY BE CHANGED TO ACCOMMODATE CONSTRUCTION AS LONG AS EFFECTIVE CROSS-SECTIONAL AREA IS MAINTAINED. DUCT TRANSITIONS SHALL BE CONSTRUCTED WITH A SLOPE OF 1" TO 4". ALL DEVIATIONS FROM ORIGINAL CONTRACT DRAWINGS SHALL BE REVIEWED BY ENGINEER DURING THE SHOP DRAWING PROCESS.
9. PROVIDE MANUAL BALANCING DAMPERS AS REQUIRED TO PROPERLY BALANCE EACH INDIVIDUAL AIR DISTRIBUTION SYSTEM. IF THE LOCATION OF THE BALANCING DAMPER IS NOT DEFINED ON THE DRAWINGS, THE FOLLOWING MINIMUMS STANDARDS SHALL GOVERN. ALL SUPPLY, RETURN, AND EXHAUST MAIN BRANCHES FROM TRUNKS, EACH SPLIT AND ALL SUB- BRANCHES FROM MAIN SHALL INCORPORATE BALANCING DAMPERS.
10. PROVIDE FLEXIBLE CONNECTORS AT ALL DUCT CONNECTIONS TO VIBRATING EQUIPMENT. THESE CONNECTORS SHALL BE INSTALLED IN CLOSE PROXIMITY TO SUCH EQUIPMENT.
11. PROVIDE FIRE DAMPERS WITH RATED ACCESS DOORS AT ALL DUCT PENETRATIONS THROUGH FIRE RATED WALLS, SMOKE AND FIRE STOPPING, SHAFT, FLOORS, RATED CEILINGS AND PARTITIONS AS REQUIRED TO MAINTAIN ARCHITECTURAL FIRE RATINGS. REFER TO THE ARCHITECTURAL PLANS AND SPECIFICATIONS FOR LOCATIONS AND FIRE RATING REQUIREMENTS. MC MUST FULLY REVIEW ALL ARCHITECTURAL AND ENGINEERING DRAWINGS AND VISIT THE SITE PRIOR TO SUBMITTING THE BID. NO EXTRAS WILL BE ALLOWED.
12. ALL ACCESS DOORS REQUIRED IN GENERAL CONSTRUCTION ARE TO BE FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR. IT IS THE RESPONSIBILITY OF THE HVAC CONTRACTOR TO IDENTIFY SIZE, TYPE AND LOCATION OF SUCH DOORS FOR PROPER ACCESS TO ALL CONCEALED HVAC EQUIPMENT, VALVES AND OTHER RELATED EQUIPMENT. THE HVAC CONTRACTOR SHALL IDENTIFY THESE REQUIREMENTS ON A COORDINATED SHOP DRAWING PRIOR TO SYSTEM FABRICATION AND INSTALLATION.
13. ALL WALL AND ROOF OPENINGS 12" X 12" OR LARGER ARE TO BE EQUIPPED WITH BURGLAR BARS USING 5/8" DIAMETER RODS RUNNING 12" ON CENTER IN BOTH DIRECTIONS AND WELDED AT ALL INTERSECTING POINTS. SECURE THE PERIMETER FRAME ASSEMBLY TO THE WALL OR ROOF FRAMED OPENING.
14. ALL CEILING MOUNTED EQUIPMENT MUST BE SUPPORTED DIRECTLY FROM BUILDING STRUCTURE WITH COMBINATION SPRING AND NEOPRENE-IN-SHEAR HANGERS AND ROD. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED TO ADEQUATELY SUPPORT THE LOAD.
15. IF APPLICABLE, ROOFTOP HVAC EQUIPMENT SHALL BE MOUNTED ON ROOF CURBS, LEVEL AND SUFFICIENTLY AWAY FROM EDGE OF ROOF (MIN. *10'-0"*). ALL EXPOSED DUCTWORK PENETRATIONS MUST BE PROPERLY FLASHED TO ALLOW FOR A WEATHER TIGHT SEAL. IN ADDITION, ADEQUATE CLEARANCES SHALL BE PROVIDED FOR CLEANING AND MAINTENANCE REQUIREMENTS. THE FINAL LOCATION OF ALL ROOFTOP UNITS MUST ALSO COMPLY WITH ALL OSHA SAFETY REQUIREMENTS. SUBMIT THE FOLLOWING ITEMS TO THE ENGINEER FOR REVIEW AND APPROVAL:(A) DUCTWORK ROOF PENETRATION FLASHING MATERIAL/METHODS, AND (B) EXACT STRUCTURAL FASTENING MATERIALS,METHODS, LOCATIONS TO PROPERLY SECURE THE ROOF-TOP EQUIPMENT TO THE STEEL DUNNAGE.
16. CONTRACTOR IS TO PROVIDE & INSTALL 120V SMOKE DETECTORS WITH AUXILIARY CONTACTS. UPON ACTIVATION THE SMOKE DETECTORS SHALL SHUT DOWN THE AIR DISTRIBUTION SYSTEMS AND ACTIVATE A VISIBLE AND AUDIBLE SUPERVISOR SIGNAL AT A CONSTANTLY ATTENDED LOCATION IN ACCORDANCE WITH NFPA 90A & 90B. THE M.C. IS RESPONSIBLE FOR WIRING BETWEEN THE FAN SHUTDOWN RELAY AND THE HVAC UNIT.
17. RIGGING OF NEW EQUIPMENT TO BE SCHEDULED/COORDINATED WITH OWNER REP. COORDINATE RIGGING WITH ANY REQUIREMENT MANDATED BY THE LOCAL BUILDING DEPARTMENT AND/OR ANY OTHER AGENCY INCLUDING SUCH PERMITS, FEES, ETC.
18. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS/SPECIFICATIONS.
19. ALL MECHANICAL EQUIPMENT SHALL BE MOUNTED ON MINIMUM 6" HIGH CONCRETE PAD UNLESS OTHERWISE NOTED (PAVER AND CINDER BLOCK IS NOT ACCEPTABLE). PADS ARE TO BE FURNISHED BY GC.
20. CONTRACTOR TO LOCATE DIFFUSERS AND REGISTERS ON THE ARCHITECTURAL REFLECTED CEILING PLAN AND LAYOUT DUCT DISTRIBUTION ACCORDINGLY.

SCOPE OF WORK:

1. DEMOLITION OF ALL EXISTING MECHANICAL EQUIPMENT AND DUCTWORK
2. INSTALLATION OF NEW VRF SYSTEM
3. INSTALLATION OF NEW ERV
4. INSTALLATION OF NEW DUCTWORK
5. INSTALLATION OF NEW REFRIGERANT PIPING
6. ASSOCIATED CONTROLS

NOTE: THIS SCOPE OF WORK DESCRIPTION IS PROVIDED TO GIVE AN OVERALL "MACRO" DESCRIPTION OF THIS PROJECT. CONTRACTOR IS RESPONSIBLE TO REVIEW ALL ENGINEERING AND ARCHITECTURAL DRAWINGS AND VISIT THE SITE IF NEEDED, PRIOR TO SUBMISSION OF BID. REFER TO SPECIFICATIONS FOR FURTHER SCOPE OF WORK. IF CONFLICTS ARISE, CONTACT DESIGN ENGINEER BEFORE FABRICATION.

CODE REFERENCE

1. MASSACHUSETTS NINTH EDITION CMR 780, WHICH CONSISTS OF:
   a. 2015 INTERNATIONAL BUILDING CODE WITH MODIFICATIONS
   b. 2015 INTERNATIONAL EXISTING BUILDING CODE WITH MODIFICATIONS
   c. 2015 INTERNATIONAL MECHANICAL CODE WITH MODIFICATIONS
   d. 2018 INTERNATIONAL ENERGY CONSERVATION CODE WITH MODIFICATIONS.
2. 2016 NFPA 70 - NATIONAL ELECTRIC CODE
3. 2016 NFPA 90A – STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS

ABBREVIATIONS:

AAV	AUTOMATIC AIR VENT
ACC	AIR COOLED CONDENSER
ACU	AIR CONDENSING UNIT
ACV	AUTOMATIC CONTROL VALVE
AD	ACCESS DOOR
AE	ACID EXHAUST
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ATC	AUTOMATIC TEMPERATURE CONTROL
AV	AIR VENT
B	BOILER
BB	BASEBOARD
BDD	BACKDRAFT DAMPER
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
CBD	COUNTER BALANCED DAMPER
CD	CEILING DIFFUSER
CFF	CAPPED FOR FUTURE
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CLG	CEILING
CO	CLEAN OUT
CONT	CONTINUATION
COORD	COORDINATE
CP	CONDENSATE PUMP & RECEIVER
CRAC	COMPUTER ROOM AIR CONDITIONER
CT	COOLING TOWER
CTE	CONNECT TO EXISTING
CU	COPPER
CUH	CABINET UNIT HEATER
CV	CONTROL VALVE
DC	DOUBLE CONTAINED
DDC	DIRECT DIGITAL CONTROL
DIA	DIAMETER
DIC	DOWN IN CHASE
DIW	DOWN IN WALL
DN	DOWN
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
(E)	EXISTING TO REMAIN
EA	EXHAUST AIR
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ENC	ENCLOSURE
ER	EXHAUST REGISTER
(ER)	EXISTING IN NEW LOCATION
ETR	EXISTING TO REMAIN
EX	EXHAUST FAN
FBO	FURNISHED BY OWNER
FBP	FACE AND BYPASS
FC	FLEXIBLE CONNECTION
FD	FIRE DAMPER
FG	FIBERGLASS
F & T	FLOAT AND THERMOSTSATIC
FO	FLOAT OVAL
FTR	FINNED TUBE RADIATION
FS	FLOW SWITCH
FSD	COMBINATION FIRE/SMOKE DAMPER
G.C.	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
HB	HOSE BIB
HP	HEAT PUMP
HRU	HEAT RECOVERY UNIT
HTR	HEATER
HUM	HUMIDIFIER
(L)	EXISTING IN NEW LOCATION
LD	LINED DUCT
LSD	LINEAR SLOT DIFFUSER
MAU	MAKE UP AIR UNIT
MAX	MAXIMUM
MBH	1000 BTU/HR
MD	MOTOR OPERATED DAMPER
ME	MECHANICAL ENGINEER
MFR	MANUFACTURER
MIN	MINIMUM
MPV	MULTI-PURPOSE VALVE
MTD	MOUNTED
MUA	MAKE UP AID
(N)	NEW
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBVD	OPPOSED BLADE VOLUME DAMPER
OED	OPEN ENDED DUCT
PPE	PRE PURCHASED EQUIPMENT
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REDUCING VALE
(R)	EXISTING TO BE DICONNECTED AND REMOVED
RA	RETURN AIR
RF	RETURN FAN
RG	RETURN GRILLE
RHC	REHEAT COIL
RHP	RADIANT HEATING PANEL
(RL)	EXISTING TO BE DICONNECTED AND RELOCATED
RM	ROOM
(RP)	EXISTING TO BE REPLACED
RR	RETURN REGISTER
RV	RELIEF VALVE
RVD	REMOTE VOLUME DAMPER
SA	SUPPLY AIR
SD	SMOKE DETECTOR
SF	SUPPLY FAN
SG	SUPPLY GRILLE
SR	SUPPLY REGISTER
SS	STAINLESS STEEL
T	THERMOSTAT
TG	TRANSFER GRILLE
TOD	TOP OF DUCT
TOP	TOP OF PIPE
TTS	TIGHT TO STEEL
TYP	TYPICAL
UH	UNIT HEATER
UIC	UP IN CHASE
UIW	UP IN WALL
VAV	VARIABLE AIR VOLUME BOX
VB	VACUUM BREAKER
VCFF	VALVED AND CAPPED FOR FUTURE
VD	MANUAL VOLUME DAMPER
VIF	VERIFY IN FIELD
VTR	VENT THRU ROOF
W/	WITH
WEG	WALL EXHAUST GRILLE
WSG	WALL SUPPLY GRILLE
WRG	WALL RETURN GRILLE
WMS	WIRE MESH SCREEN

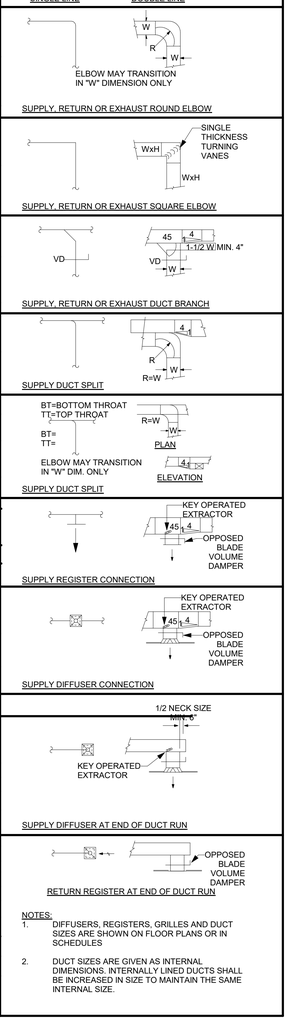
THE ABBREVIATIONS ARE SHOWN FOR GENERAL REFERENCE ONLY. THE PRESENCE OF AN ABBREVIATION ON THIS LIST DOES NOT IMPLY ITS USE ON THIS PROJECT. REFER TO DRAWINGS FOR SPECIFIC ABBREVIATIONS USED.

HVAC AIR DISTRIBUTION AND GENERAL SYMBOLS

IDENTIFIER	DESCRIPTION
	SPIRAL DUCTWORK WITH 1" ACOUSTICAL LINING HARD DUCT CONNECTION TO ROUND DIFFUSER. DUCTWORK TO BE PAINTED TO COLOR SPECIFIED BY ARCHITECT
	NEW DUCTWORK OR PIPING
	EXISTING DUCTWORK OR PIPING TO BE REMOVED
	EXISTING DUCTWORK OR PIPING TO REMAIN
	HEAT TRACE PIPE
24X12 / 24X12	DOUBLE-LINE AND SINGLE-LINE RECTANGULAR DUCT, FIRST NUMBER INDICATES SIDE IN VIEW IN INCHES, SECOND NUMBER INDICATES SIDE IN DEPTH IN INCHES
24Ø / 12Ø	DOUBLE-LINE AND SINGLE-LINE ROUND DUCT, NUMBER INDICATES DIAMETER IN INCHES
	FLEXIBLE DUCTWORK
	REGULAR SUPPLY AIR DUCT (UP AND DOWN)
	REGULAR RETURN AIR DUCT (UP AND DOWN)
	REGULAR EXHAUST AIR DUCT (UP AND DOWN)
	REGULAR OUTSIDE AIR DUCT (UP AND DOWN)
	ROUND SUPPLY AIR DUCT (UP AND DOWN)
	ROUND RETURN AIR DUCT (UP AND DOWN)
	ROUND EXHAUST AIR DUCT (UP AND DOWN)
	ROUND OUTSIDE AIR DUCT (UP AND DOWN)
	INSULATED FLEXIBLE DUCT
VD	VOLUME DAMPER
BD	BACKDRAFT DAMPER
FD/AD	FIRE DAMPER AND ACCESS DOOR
SD/AD	SMOKE DAMPER AND ACCESS DOOR
M	MOTOR OPERATED DAMPER
M	CONTROL DAMPER
	FAN - CENTRIFUGAL
	AIRFLOW MEASURING STATION
	4 WAY CEILING DIFFUSER
	3 WAY CEILING DIFFUSER
	2 WAY CEILING DIFFUSER
	2 WAY CEILING DIFFUSER
	EXHAUST FAN
	EXHAUST GRILLE
	RETURN GRILLE/REGISTER
	SUPPLY DIFFUSER - ROUND
	RETURN DIFFUSER - ROUND
	EXHAUST DIFFUSER - ROUND

IDENTIFIER	DESCRIPTION
	FLAT, PLEATED FILTER
	CARTRIDGE FILTER
	HUMIDIFIER
PH / C	COIL - PREHEAT
C / C	COIL - COOLING
H / C	COIL - HEATING
	ELECTRIC HEATER
XX / YY	AVERAGING DEVICE XX-DEVICE TYPE YY - SIGNAL TYPE
	PUMP
	VARIABLE FREQUENCY DRIVE
	SPLIT-CASE PUMP
	END-SUCTION PUMP
	INLINE PUMP
XXX / XX	EQUIPMENT TAG EQUIPMENT NUMBER
XXX / X-XXX	DETAIL TAG/CALL OUT TAG MECHANICAL SHEET NUMBER
#	KEYED NOTE
	TO BE DEMOLISHED
NIC	AREA NOT IN CONTRACT
	FIELD CONNECT
	FIELD DISCONNECT
PS	DIFFERENTIAL PRESSURE SENSOR
	SUPPLY AIR FLOW
	EXHAUST AIR
G type	GAS SENSOR (INDICATE TYPE)
	UNDERCUT DOOR
T	THERMOSTAT
DSD	DUCT SMOKE DETECTOR
TS	TEMPERATURE SENSOR
TC	ELECTRONIC TIMECLOCK
CO	CARBON MONOXIDE DETECTOR
NO	NITRIC OXIDE DETECTOR
	SIDEWALL GRILLE

SINGLE LINE / DOUBLE LINE



NOTES:
1. DIFFUSERS, REGISTERS, GRILLES AND DUCT SIZES ARE SHOWN ON FLOOR PLANS OR IN SCHEDULES
2. DUCT SIZES ARE GIVEN AS INTERNAL DIMENSIONS. INTERNALLY LINED DUCTS SHALL BE INCREASED IN SIZE TO MAINTAIN THE SAME INTERNAL SIZE.

HVAC PIPING SYSTEMS

IDENTIFIER	DESCRIPTION
(R)	EXISTING PIPING TO BE REMOVED
(E)	EXISTING PIPING TO REMAIN
CD	CONDENSATE DRAIN
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
DB	DISTRIBUTION VALVE BOX
CWS	EXISTING DOMESTIC COLD WATER
CWR	NEW DOMESTIC COLD WATER
DB	DISTRIBUTION VALVE BOX
FCS	FREE COOLING SUPPLY
FCR	FREE COOLING RETURN
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
FOV	FUEL OIL VENT
GCR	GRAVITY STEAM CONDENSATE RETURN
GLYS	GLYCOL SUPPLY
GLYR	GLYCOL RETURN
HCR	HOT/CHILLED WATER RETURN
HCS	HOT/CHILLED WATER SUPPLY
HG	HOT GAS
HPS	HIGH PRESSURE STEAM
HPR	HIGH PRESSURE CONDENSATE RETURN
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
LPS	LOW PRESSURE STEAM
LPR	LOW PRESSURE RETURN
MPS	MEDIUM PRESSURE STEAM
MPR	MEDIUM PRESSURE RETURN
NPW	NON POTABLE COLD WATER
PCWS	PROCESS COOLING WATER SUPPLY
PCWR	PROCESS COOLING WATER RETURN
PC	PUMP STEAM CONDENSATE
PD	PUMP DISCHARGE
PW	POTABLE WATER
R	RELIEF LINE
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
TWS	TEMPERED CHILLED WATER SUPPLY
TWR	TEMPERED CHILLED WATER RETURN
ZB	ZONE VALVE BOX

HVAC SYMBOLS

	PIPING ELBOW TURNED DOWN
	PIPING ELBOW TURNED UP
	PIPING CONNECTION
	PIPE OFFSET
	PIPE TEE-DOWN
	PIPE TEE-UP
	PIPE RISER
	FIXTURE STOP
	P-TRAP
	GATE VALVE
	GATE VALVE W/ HOSE END CONNECTION
	OS & Y GATE VAVLE
	BALL VALVE
	BUTTERFLY VALVE
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	PIPE UNION
	BALANCING VALVE
	CHECK VALVE
	BACKFLOW PREVENTER
	PLUG VALVE
	PLUG VALVE
	PRESSURE REGULATING VALVE
TS	CONTROL VALVE W/ TAMPER SWITCH
	WATER REDUCING VALVE
	FUSIBLE LINK VALVE
	PIPE STRAINER
	PRESSURE GAUGE
	PRESSURE GAUGE W/ DEMAND CHECK
	PRESSURE GAUGE W/ GAUGE COCK
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	PIPE CAP
	SHOCK ARRESTOR
	HOSE CONNECTION
	THERMOMETER IN PIPE WELL
FCO	FLOOR CLEANOUT
CO	CLEANOUT
WC	WALL CLEANOUT
	FLEXIBLE PIPE CONNECTION
	PIPE BREAK LINE
	WATERTIGHT SLEEVE
	PIPE ANCHOR
	FLANGE
	SPOUT RAIN WATER ZURN
	DIRECTION OF FLOW
	PUMP
H	HUMIDIFIER
WH	WALL HYDRANT
	FLOOR DRAIN
1/16" / 12" MIN.	PIPE SLOPE 1/16" PER FOOT MIN.
1/8" / 12" MIN.	PIPE SLOPE 1/8" PER FOOT MIN.
1/4" / 12" MIN.	PIPE SLOPE 1/4" PER FOOT MIN.

TOWN OF WAYLAND

8 ANDREW AVENUE.
WAYLAND, MA 01778

WAYLAND SENIOR CENTER

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A LiRo Group Company

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
1	08/31/22	SELECTIVE INTERIOR DEMOLITION
2	10/12/22	50% CD

KEY PLAN:

DRAWING TITLE:
MECHANICAL NOTES, SYMBOLS & ABBREVIATIONS

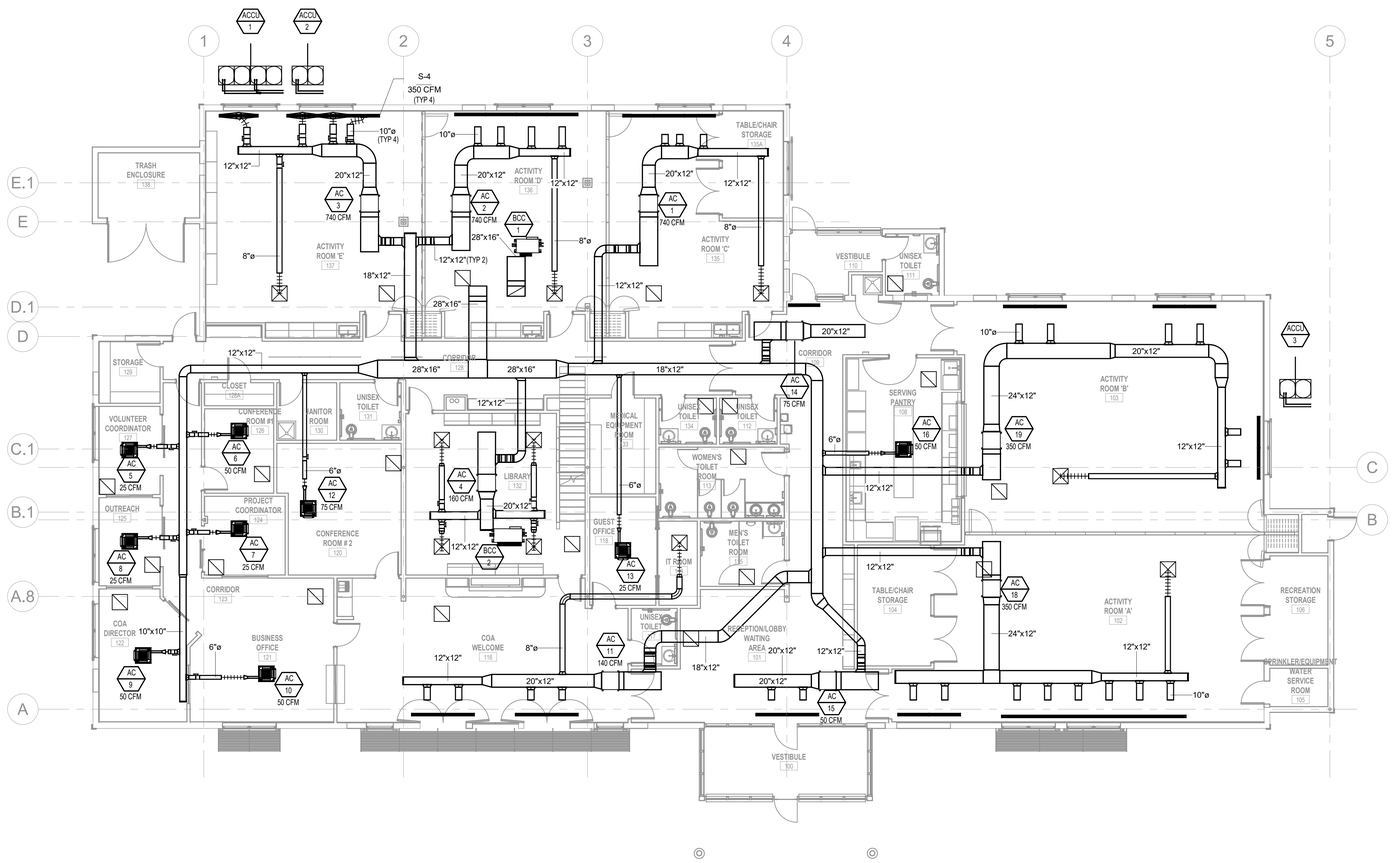
DRAWN BY: AJP
CHECKED BY: CMP
SCALE: 1/8" = 1'-0"
PROJECT NO.: 21-125-2125.04

SEAL:

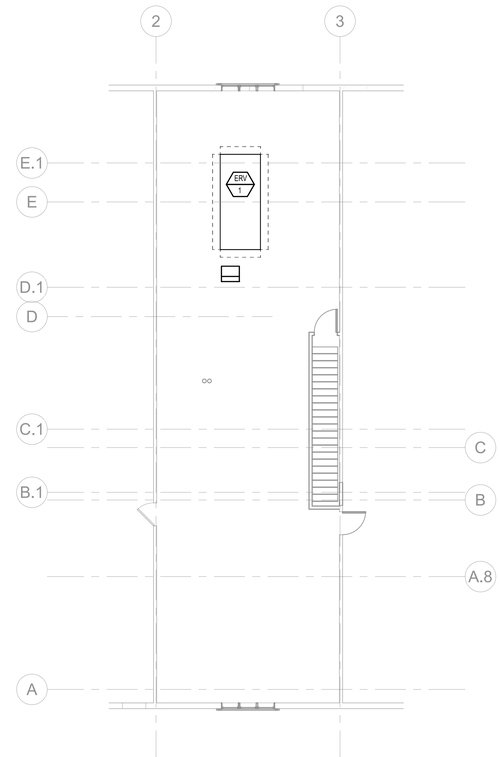
DRAWING NO.:
M-001

PROJECT LOCATION:
BIM 360:/Town of Wayland On Call TASK ORDER#4/21-125-2125.04 - Wayland Senior Center - Mech.rvt

DATE & TIME PRINTED: 10/12/2022 2:51:13 PM



1 Level 1 Ductwork Plan
SCALE: 1/8" = 1'-0"



2 Mezzanine Ductwork Plan
SCALE: 1/8" = 1'-0"

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
1	10/12/22	50% CD

KEY PLAN:

N TRUE

DRAWING TITLE:
MECHANICAL FIRST FLOOR AND MEZZANINE PLAN

DRAWN BY: Author
CHECKED BY: Checker
SCALE: 1/8" = 1'-0"
PROJECT NO.: 21-125-2125.04

SEAL:

DRAWING NO.:
M-101

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/21-125-2125.04 - Wayland Senior Center - Mech.rvt

DATE & TIME PRINTED: 10/12/2022 4:01:42 PM

VRF INDOOR UNIT SCHEDULE

System Tag	Room Name	Tag Reference	Model	Type	Nominal Cooling Capacity (BTU/h)	Nominal Heating Capacity (BTU/h)	Cooling Design Entering Temp DB/WB (°F)	Heating Design Entering Temp DB/WB (°F)	Cooling Total Capacity (BTU/h)	Cooling Sensible Capacity (BTU/h)	Heating Capacity (BTU/h)	Refrig Pipe Dim Liquid/Suction (inch)	Fan Speed Setting	Peak Fan Airflow (cfm)	Max Fan ESP Setting 208V/230V (IN WG)	Sound Pressure Per Fan Speed 208V/230V (dBA)	Voltage / Phase	Electrical MCA/MFS	Notes / Options
ACCU-1	ACTIVITY ROOM A	AC-1	PEFY-P54NMAU-E4	Ceiling-Concealed (Ducted)	54,000.0	60,000.0	80.0/67.0	70.0	54,091.0	38,105.1	53,007.1	3/8 / 5/8	HIGH	1413	0.6/0.6	34-38-42	208/230V/1-phase	4.38/15	1, 2, 3, 4
ACCU-1	ACTIVITY ROOM B	AC-2	PEFY-P54NMAU-E4	Ceiling-Concealed (Ducted)	54,000.0	60,000.0	80.0/67.0	70.0	54,091.0	38,105.1	53,007.1	3/8 / 5/8	HIGH	1413	0.6/0.6	34-38-42	208/230V/1-phase	4.38/15	1, 2, 3, 4
ACCU-1	ACTIVITY ROOM C	AC-3	PEFY-P54NMAU-E4	Ceiling-Concealed (Ducted)	54,000.0	60,000.0	80.0/67.0	70.0	54,091.0	38,105.1	53,007.1	3/8 / 5/8	HIGH	1413	0.6/0.6	34-38-42	208/230V/1-phase	4.38/15	1, 2, 3, 4
ACCU-1	LIBRARY	AC-4	PEFY-P18NMAU-E4	Ceiling-Concealed (Ducted)	18,000.0	20,000.0	80.0/67.0	70.0	18,030.3	13,727.5	17,669.0	1/4 / 1/2	HIGH	600	0.6/0.6	29-33-37	208/230V/1-phase	2.94/15	1, 2, 3, 4
ACCU-2	VOLUNTEER COORD	AC-5	PLFY-P05NFMU-E	Ceiling-Cassette (Four-Way)	5,000.0	5,600.0	80.0/67.0	70.0	5,003.1	4,384.5	5,114.1	1/4 / 1/2	HIGH	280		26-28-30	208/230V/1-phase	0.24/0.24/15	1, 2, 3, 4
ACCU-2	CONFERENCE ROOM 1	AC-6	PLFY-P05NFMU-E	Ceiling-Cassette (Four-Way)	5,000.0	5,600.0	80.0/67.0	70.0	5,003.1	4,384.5	5,114.1	1/4 / 1/2	HIGH	280		26-28-30	208/230V/1-phase	0.24/0.24/15	1, 2, 3, 4
ACCU-2	PROJECT COORD	AC-7	PLFY-P05NFMU-E	Ceiling-Cassette (Four-Way)	5,000.0	5,600.0	80.0/67.0	70.0	5,003.1	4,384.5	5,114.1	1/4 / 1/2	HIGH	280		26-28-30	208/230V/1-phase	0.24/0.24/15	1, 2, 3, 4
ACCU-2	OUTREACH	AC-8	PLFY-P05NFMU-E	Ceiling-Cassette (Four-Way)	5,000.0	5,600.0	80.0/67.0	70.0	5,003.1	4,384.5	5,114.1	1/4 / 1/2	HIGH	280		26-28-30	208/230V/1-phase	0.24/0.24/15	1, 2, 3, 4
ACCU-2	COA DIRECTOR	AC-9	PLFY-P08NFMU-E	Ceiling-Cassette (Four-Way)	8,000.0	9,000.0	80.0/67.0	70.0	8,004.9	6,219.3	8,219.1	1/4 / 1/2	HIGH	315		26-30-33	208/230V/1-phase	0.28/0.28/15	1, 2, 3, 4
ACCU-2	BUSINESS OFFICE	AC-10	PLFY-P08NFMU-E	Ceiling-Cassette (Four-Way)	8,000.0	9,000.0	80.0/67.0	70.0	8,004.9	6,219.3	8,219.1	1/4 / 1/2	HIGH	315		26-30-33	208/230V/1-phase	0.28/0.28/15	1, 2, 3, 4
ACCU-2	COA WELCOME	AC-11	PEFY-P18NMAU-E4	Ceiling-Concealed (Ducted)	18,000.0	20,000.0	80.0/67.0	70.0	18,011.1	13,719.9	18,264.6	1/4 / 1/2	HIGH	600	0.6/0.6	29-33-37	208/230V/1-phase	2.94/15	1, 2, 3, 4
ACCU-2	CONFERENCE 2	AC-12	PEFY-P08NMAU-E4	Ceiling-Concealed (Ducted)	8,000.0	9,000.0	80.0/67.0	70.0	7,458.50	6,221.10	7,365.20	1/4 / 1/2	HIGH	300	0.6/0.6	24-28-30	208/230V/1-phase	1.75/15	1, 2, 3, 4
ACCU-2	GUEST OFFICE	AC-13	PLFY-P05NFMU-E	Ceiling-Cassette (Four-Way)	5,000.0	5,600.0	80.0/67.0	70.0	5,003.1	4,384.5	5,114.1	1/4 / 1/2	HIGH	280		26-28-30	208/230V/1-phase	0.24/0.24/15	1, 2, 3, 4
ACCU-2	VESTIBULE 1 & COORDIOR	AC-14	PEFY-P06NMAU-E4	Ceiling-Concealed (Ducted)	6,000.0	6,700.0	80.0/67.0	70.0	6,003.7	5,761.9	6,118.6	1/4 / 1/2	HIGH	300	0.6/0.6	24-28-30	208/230V/1-phase	1.75/15	1, 2, 3, 4
ACCU-2	VESTIBULE 2 & LOBBY WAITING	AC-15	PEFY-P18NMAU-E4	Ceiling-Concealed (Ducted)	18,000.0	20,000.0	80.0/67.0	70.0	18,011.1	13,719.9	18,264.6	1/4 / 1/2	HIGH	600	0.6/0.6	29-33-37	208/230V/1-phase	2.94/15	1, 2, 3, 4
ACCU-2	KITCHEN	AC-16	PLFY-P18NFMU-E	Ceiling-Cassette (Four-Way)	18,000.0	20,000.0	80.0/67.0	70.0	18,011.1	11,909.7	18,264.6	1/4 / 1/2	HIGH	460		33-39-43	208/230V/1-phase	0.5/0.5/15	1, 2, 3, 4
ACCU-3	FUNCTION A	AC-18	PEFY-P54NMAU-E4	Ceiling-Concealed (Ducted)	54,000	60,000	80.0/67.0	70.0	52,638.40	37,509.30	55,322.10	3/8 / 5/8	HIGH	1413	0.6/0.6	34-38-42	208/230V/1-phase	4.38/15	1, 2, 3, 4
ACCU-3	FUNCTION B	AC-19	PEFY-P54NMAU-E4	Ceiling-Concealed (Ducted)	54,000	60,000	80.0/67.0	70.0	52,638.40	37,509.30	55,322.10	3/8 / 5/8	HIGH	1413	0.6/0.6	34-38-42	208/230V/1-phase	4.38/15	1, 2, 3, 4

Notes & Options:

1. Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)
2. Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)
3. See outdoor unit schedule for outdoor ambient conditions, connected capacity, and other factors associated with corrected capacities
4. Provide PAC-YT53CRAU Remote Controller

VRF OUTDOOR CONDENSING UNIT SCHEDULE

System Tag	Model Number	Modules	Nominal Cooling Capacity (BTU/h)	Nominal Heating Capacity (BTU/h)	Cooling Efficiency IEER/EER	Heating COP @ 47°F	Nom System Connected Capacity (% of NOM)	Design Cooling Outdoor Temp DB (°F)	Design Heating Outdoor Temp WB (°F)	Corrected Cooling Total Capacity (BTU/h)	Corrected Heating Capacity (BTU/h)	Sound Pressure (dBA)	Preliminary Added Field Charge	Electrical-Per Module 208/230V: Voltage / Phase	MCA 208/230V	RFS	MOCP	Notes / Options
ACCU-1	PURY-EP192TSNU-A	P96, P96	192,000.0	215,000.0	28.55 / 13.4	3.825	93.8%	91.0	5.0	187,851.9	176,690.3	61.5/63	33.4	208/230V / 3-phase 3-wire	31/29, 31/29	45/45, 45/45	45/45, 45/45	1, 2, 3, 4, 5
ACCU-2	PURY-EP120TNU-A	P120	120,000.0	135,000.0	27.55 / 13.2	3.875	90.8%	91.0	5.0	117,781.6	111,140.0	60/62	28.9	208/230V / 3-phase 3-wire	41/38	60/60	60/60	1, 2, 3, 4, 5
ACCU-3	PUHY-EP96TNU-A	P96	96,000.0	108,000.0	30.35 / 14.7	4.215	95.8%	91.0	5.0	94,675.6	88,698.9	56/58.5	14.4	208/230V / 3-phase 3-wire	31/29	45/40	45/40	1, 2, 3, 4, 5

Notes & Options:

1. Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)
2. Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)
3. Provide AE-200 touch screen central controller with optional SW-BACnet master license for BACnetIP integration
4. Mount units 18" above roof/grade on snow stands with open base – Quicksling, Bigfoot, or Similar
5. Provide snow hoods, hail guards, and basepan heaters

BRANCH CIRCUIT CONTROLLER SCHEDULE

System Tag	Model Number	Type (double / Main / Sub)	Number of Ports	Connected Capacity to BC	Voltage / Phase	MCA 208/230	Notes / Options
BCC-1	CMB-P108NU-JA1	Main	8	180,000.0	208/230V/1-phase		1
BCC-2	CMB-P1016NU-JA1	Main	16	109,000.0	208/230V/1-phase		1

Notes & Options:

1. Include Diamondback Ball Valves BV-Series, 700PSIG working pressure, full port, 410A rated.

ENERGY RECOVERY VENTILATOR SCHEDULE

EQUIP. NO.	MANUFACTURER	MODEL	LOCATION	TOTAL CFM	SUPPLY FAN CFM	SUPPLY FAN T.S.P (IN. WG)	SUPPLY FAN MOTOR HP	MODE	SUPPLY SIDE EAT DB (°F)	SUPPLY SIDE EAT WB (°F)	SUPPLY SIDE LAT DB (°F)	SUPPLY SIDE LAT WB (°F)	EXHAUST FAN CFM	EXHAUST FAN T.S.P (IN. WG)	EXHAUST FAN MOTOR HP	MODE	EXHAUST SIDE EAT DB (°F)	EXHAUST SIDE EAT WB (°F)	EXHAUST SIDE LAT DB (°F)	EXHAUST SIDE LAT WB (°F)	ELECTRICAL V-PH-HZ	ELECTRICAL MCA	ELECTRICAL FLA	ELECTRICAL MOCP	OPERATING WEIGHT (±LBS)	UNIT DIMENSIONS (LxWxH)	NOTES
ERV-1	SWEGON	AD-100012251772	MEZZANINE	3,600	3600	2.77	4.6	SUMMER	85	72	69.9	62.4	3300	2.78	4.6	SUMMER	65.8	58.8	82	69.3	208-3-60	52.11	41.69	60	3241	149X63X75.25	
								WINTER	0	-2.1	56.3	46.4				WINTER	72	56	9.4	8.9							

NOTES:

TOWN OF WAYLAND

8 ANDREW AVENUE.
WAYLAND, MA 01778

WAYLAND SENIOR CENTER

DAI DiGIORGIO ASSOCIATES INCORPORATED
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FAX. 617.723.9113
PORTLAND
570 WASHINGTON AVE.
PORTLAND, ME 04103
TEL. 207.582.2400
FAX. 207.582.8320

CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
1	10/12/22	50% CD

KEY PLAN:

N TRUE

DRAWING TITLE:
MECHANICAL SCHEDULES

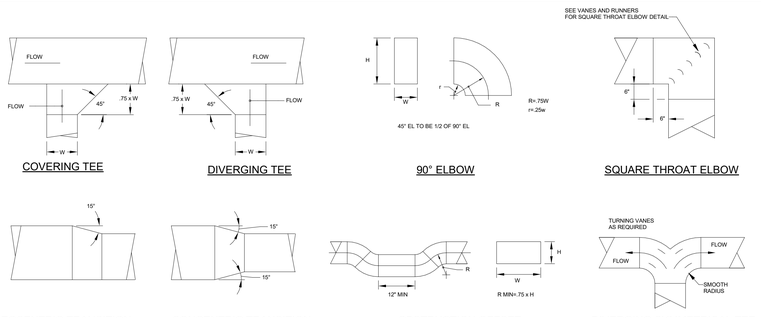
DRAWN BY: Author
CHECKED BY: Checker
SCALE:
PROJECT NO.: 21-125-2125.04

SEAL:

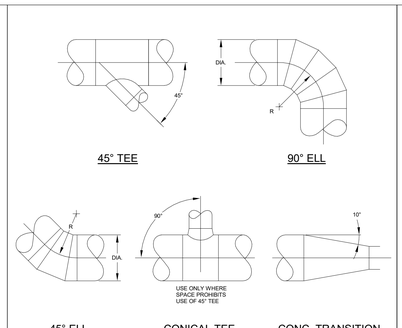
DRAWING NO.:
M-601

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/21-125-2125.04 - Wayland Senior Center - Mech.rvt

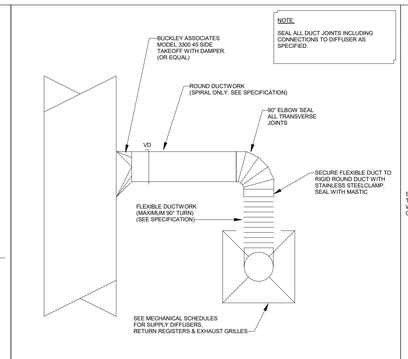
DATE & TIME PRINTED: 10/12/2022 3:52:25 PM



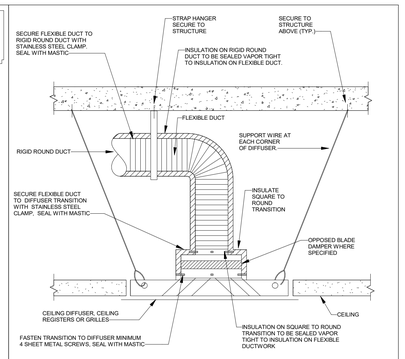
A1 — NOT TO SCALE — Standard Rectangular Duct Details



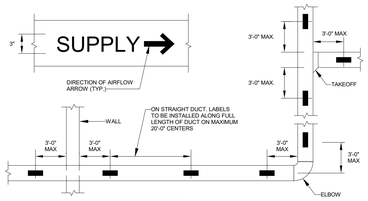
A3 — NOT TO SCALE — Standard Round Duct Details



A4 — NOT TO SCALE — Typical Supply Diffusers, Return Registers & Exhaust Grilles Take-off Detail for Round Branch Ducts



A5 — NOT TO SCALE — Installation Detail for Supply Diffusers, Return Registers & Exhaust Grilles

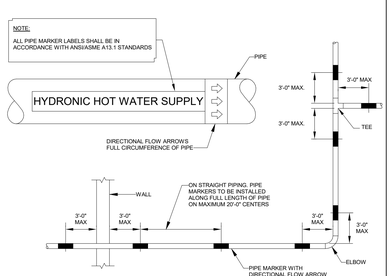


DUCTWORK IDENTIFICATION COLOR CODE CHART

SUPPLY	YELLOW
RETURN	RED/MAGENTA
EXHAUST	GREEN
OUTSIDE AIR	BLUE
RELIEF	WHITE
KITCHEN EXHAUST	BLACK

BASIS OF DESIGN
- OILBOARD STENCIL LETTERS & ARROW.
- ROLLER APPLIED LOW / NO VOC PAINT.

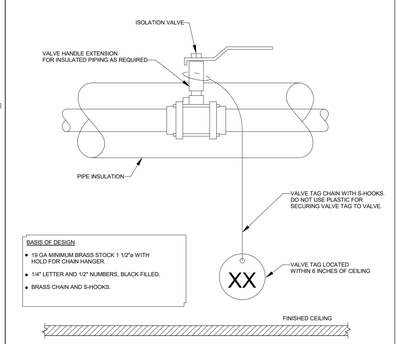
B1 — NOT TO SCALE — Duct Stencil Detail



BASIS OF DESIGN
- ROLL FROM SELF-ADHESIVE PIPE MARKER.
- 9"x2" WITH 1 1/4" LETTERS.
- 1" WIDE ARROWS-ON-A-ROLL.

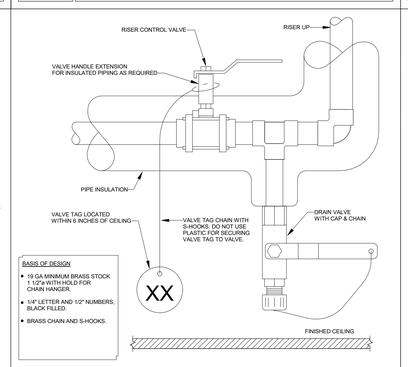
PIPE MARKER LOCATIONS
NOT TO SCALE

B2 — NOT TO SCALE — Detail of Pipe Markers for HVAC Piping



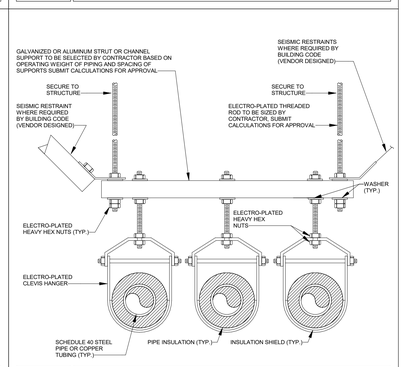
BASIS OF DESIGN
- 19 GA MINIMUM BRASS STOCK 1 1/2"ø WITH HOLD FOR CHAIN HANGER.
- 1/4" LETTER AND 1/2" NUMBERS, BLACK FILLED.
- BRASS CHAIN AND S-HOOKS.

B3 — NOT TO SCALE — Valve Tag Installation Detail

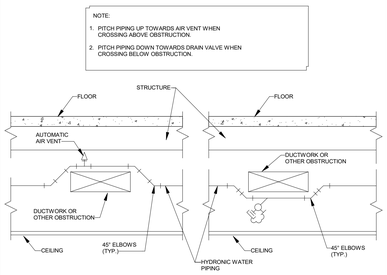


BASIS OF DESIGN
- 19 GA MINIMUM BRASS STOCK 1 1/2"ø WITH HOLD FOR CHAIN HANGER.
- 1/4" LETTER AND 1/2" NUMBERS, BLACK FILLED.
- BRASS CHAIN AND S-HOOKS.

B4 — NOT TO SCALE — Riser Control and Drain Valve

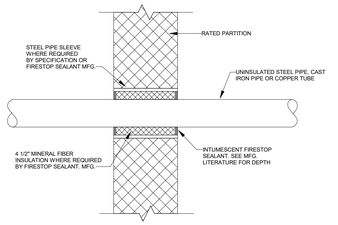


B5 — NOT TO SCALE — Alternate Approach for Supporting Multiple Piping Runs



OFFSET ABOVE OBSTRUCTION — OFFSET BELOW OBSTRUCTION

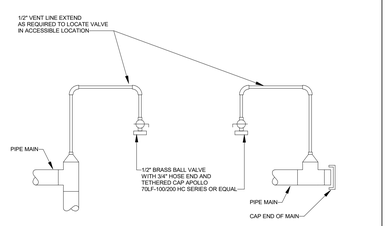
C1 — NOT TO SCALE — Vertical Piping Offset Detail



NOTE:
PIPING PENETRATIONS OF FLOOR TO BE SIMILAR

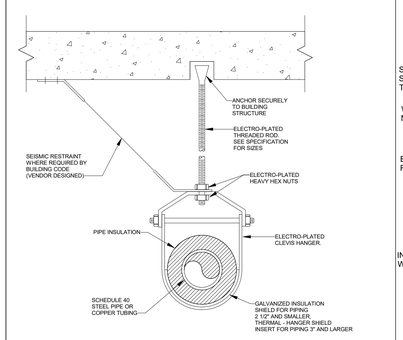
ALL MATERIALS TO BE INSTALLED IN STRICT ACCORDANCE WITH FIRESTOP SEALANT MANUFACTURER'S UL LISTED SYSTEM DETAILS

C2 — NOT TO SCALE — Detail of Firestopping Uninsulated Pipe Penetrations of Rated Partitions

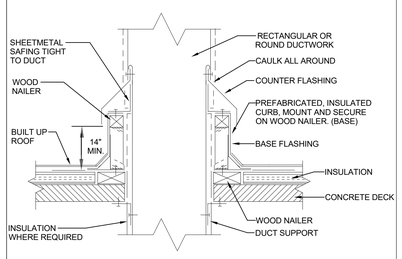


VENT AT PIPING HIGH POINT — VENT AT END OF PIPING MAIN

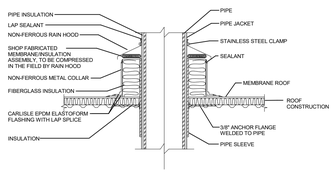
C3 — NOT TO SCALE — Manual Air Vent Detail



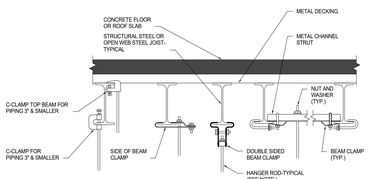
C4 — NOT TO SCALE — Detail Showing Attachment of Piping to Concrete Structure and Clevis Hanger



C5 — NOT TO SCALE — Duct Penetration Detail



D1 — NOT TO SCALE — Pipe Penetration Detail



NOTES:
1. REFER TO PIPE HANGER DETAIL FOR HANGER ROD SIZE. FOR CEILING SUSPENDED EQUIPMENT PROVIDE MIN. 3/8" DIA. HANGER ROD (REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS).
2. PROVIDE SPRING ISOLATORS ON EACH ROD FOR ANY EQUIPMENT CONTAINING A MOTOR.

D2 — NOT TO SCALE — Methods of Securing Hanger Rods to Steel

TOWN OF WAYLAND

8 ANDREW AVENUE.
WAYLAND, MA 01778

WAYLAND SENIOR CENTER

DAI DiGIORGIO ASSOCIATES INCORPORATED
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FAX. 617.723.9113

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PORTLAND, ME 04103
TEL. 207.582.2400
FAX. 207.582.8320

CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
1	08/31/22	SELECTIVE INTERIOR DEMOLITION
2	10/12/22	50% CD

KEY PLAN:

N TRUE

DRAWING TITLE:
MECHANICAL DETAILS

DRAWN BY: AJP
CHECKED BY: CMP
SCALE: NOT TO SCALE
PROJECT NO.: 21-125-2125.04

SEAL:

DRAWING NO.:
M-801

PROJECT LOCATION:
BIM 360:/Town of Wayland On Call TASK ORDER#4/21-125-2125.04 - Wayland Senior Center - Mech.rvt

DATE & TIME PRINTED: 10/12/2022 2:52:31 PM

PLUMBING SYMBOL LIST

IDENTIFIER	DESCRIPTION
CW	NEW DOMESTIC COLD WATER
HW	NEW DOMESTIC HOT WATER
HWR	NEW DOMESTIC HOT WATER RETURN
TW	NEW TEMPERED WATER
S	NEW SANITARY PIPING (ABOVE SLAB)
COND	NEW CONDENSATE DRAIN
G	NEW GAS LOW PRESSURE
CA	NEW COMPRESSED AIR
S	NEW SANITARY PIPING (UNDER SLAB)
V	NEW SANITARY VENT PIPING
	FIELD CONNECT
	FIELD DISCONNECT
F#	REFER TO SUPPLEMENTAL FIGURE INDICATED BY NUMBER (I.E. F2 REFERS TO FIGURE 2)
XXX / XX	EQUIPMENT TAG / EQUIPMENT NUMBER
XXX / X-XXX	DETAIL TAG/CALL OUT TAG / PLUMBING SHEET NUMBER

PIPING ELEMENTS/VALVING

- AQUASTAT
- ADR — AREA DRAIN
- AUTOMATIC AIR VENT
- BFP — BACKFLOW PREVENTER
- BACKFLOW PREVENTER (DOUBLE CHECK VALVE ASSEMBLY)
- BACKFLOW PREVENTER (REDUCED ZONE)
- BALL VALVE
- BUTTERFLY VALVE
- CAP ON END OF PIPE
- CBV — CIRCUIT SETTING BALANCING VALVE
- CO — CLEANOUT
- CO — FLEXIBLE-CONNECTION
- FD — FLOOR DRAIN
- FS — FLOW SWITCH
- GAS COCK
- GAS PRESSURE REGULATOR
- GATE VALVE
- GATE VALVE, ANGLE
- PI/GA — GAUGE WITH GAUGE COCK/ PRESSURE INDICATOR
- GLOBE VALVE
- GLOBE VALVE, ANGLE
- HB — HOSE BIBB
- LIFT CHECK VALVE
- MANUAL AIR VENT
- OS — OPEN SITE DRAIN
- PIPE DROPPING DOWN
- PIPE RISING UP
- PLUG VALVE
- PRESSURE REDUCING VALVE (PRV)
- PT/PS — PRESSURE TRANSMITTER OR PRESSURE SWITCH
- RELIEF/SAFETY VALVE
- RD — ROOF DRAIN
- SOLENOID VALVE
- SPRINKLER HEAD
- STRAINER
- STRAINER WITH BLOW OFF VALVE
- SWING CHECK VALVE
- TEE OUTLET DOWN
- TEE OUTLET UP
- TP — TEMPERATURE AND PRESSURE RELIEF VALVE
- TT — TEMPERATURE TRANSMITTER
- TH/TI — THERMOMETER/TEMPERATURE INDICATOR
- THREE WAY CONTROL VALVE
- TWO WAY CONTROL VALVE
- UNION - SCREWED OR FLANGED
- VALVE IN RISE OR DROP
- W.C.O. — WALL CLEAN OUT
- WHA — WATER HAMMER ARRESTER

PLUMBING GENERAL NOTES

1. ALL PLUMBING WORK UNDER THIS CONTRACT SHALL CONFORM TO THE LATEST EDITION OF THE PLUMBING CODE OF ,MASSACHUSETTS, AND THE REQUIREMENTS OF THE UTILITY AND THE LOCAL WATER COMPANY.
2. ALL MATERIALS SHALL BE NEW UNLESS NOTED OTHERWISE.
3. THE PLUMBING CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ALL LABOR AND MATERIALS SUPPLIED AND INSTALLED UNDER THIS CONTRACT AND SHALL GUARANTEE THE WORK PERFORMED UNDER THIS CONTRACT FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE OF THIS WORK.
4. PLUMBING CONTRACTOR SHALL CONSULT WITH, COOPERATE AND COORDINATE WITH THE GENERAL CONTRACTOR, MECHANICAL CONTRACTOR, SPRINKLER CONTRACTOR, ELECTRICAL CONTRACTOR, ETC. IN ORDER TO MINIMIZE INTERFERENCES BETWEEN TRADES DURING PERFORMANCE OF THIS WORK.
5. THE PLUMBING CONTRACTOR SHALL PREPARE AND FILE ALL REQUIRED PLANS AND PERMITS WITH THE LOCAL AUTHORITIES. PC SHALL PAY THE FILING FEES AS REQUIRED. PC SHALL OBTAIN ALL APPROVALS AND SHALL PAY FOR ALL WORK PERMITS, INSPECTIONS AND SIGN-OFFS AS REQUIRED TO EXECUTE THIS WORK IN A MANNER IN CONFORMANCE WITH THE CODES AND AUTHORITIES HAVING JURISDICTION.
6. THE PLUMBING CONTRACTOR SHALL PERFORM ALL TESTS AND ARRANGE FOR ALL INSPECTIONS FOR WORK UNDER HIS CONTRACT AS REQUIRED BY LAW AND SHALL SUPPLY ALL CERTIFICATES OF INSURANCE AS REQUIRED BY THE LAW AND THE OWNER.
7. THE PLUMBING CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO ALL PLUMBING EQUIPMENT REGARDLESS WHETHER ILLUSTRATED HEREIN WITHOUT ANY ADDITIONAL COSTS TO THE OWNER.
8. PLUMBING CONTRACTOR SHALL VISIT THE SITE & BECOME FAMILIAR WITH THE EXISTING CONDITIONS, INCLUDING THE SIZE OF CONNECTIONS, ROUGHING DIMENSIONS, ETC. BEFORE SUBMITTING A QUOTATION FOR THE WORK.
9. PLUMBING CONTRACTOR SHALL PERFORM ALL CUTTING, EXCAVATION, BACKFILLING, ROUGH & FINISH PATCHING AS PER THE SPECIFICATIONS AS REQUIRED FOR THE INSTALLATION OF THE WORK, UNLESS NOTED OTHERWISE.
10. ALL CONNECTIONS TO NEW AND/OR EXISTING EQUIPMENT SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
11. IT IS THE INTENT OF THIS CONTRACT THAT THE COMPLETED WORK BE FULLY OPERATIONAL.
12. ALL PIPE HANGERS AND SUPPORTS SHALL BE INSTALLED AT INTERVALS AND BE FABRICATED OF MATERIALS AS REQUIRED BY THE PC-NYS.
13. ALL NEW PLUMBING FIXTURES SHALL BE INSTALLED WITH ANGLE STOP VALVES IN THE SUPPLY LINES SERVING THE FIXTURE.
14. ALL NEW EXPOSED WATER AND WASTE PIPING SERVING THE FIXTURES SHALL BE CHROME PLATED AND SHALL HAVE CHROME PLATED ESCUTCHEONS RIGIDLY ATTACHED TO THE PIPING AT THE POINT OF WALL OR FLOOR PENETRATIONS.
15. PLUMBING CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL NEW PLUMBING FIXTURES AND EQUIPMENT TO BE SUPPLIED AND INSTALLED UNDER THIS CONTRACT FOR APPROVAL BEFORE INSTALLATION OF SAME.
16. WATERPROOF PIPE SLEEVES SHALL BE INSTALLED AT ALL PENETRATIONS THROUGH EXTERIOR WALLS. PIPE SLEEVES SHALL BE INSTALLED AT ALL WALL PENETRATIONS THROUGH INTERIOR WALLS AND FLOORS.
17. ALL PIPING SHALL BE TESTED AT A MINIMUM PRESSURE OF 1-1/2 TIMES THE MAXIMUM OPERATING PRESSURE UNLESS OTHERWISE NOTED ON THE DOCUMENTS OR THE PLUMBING CODE AND IN ACCORDANCE WITH THE UTILITY REQUIREMENTS FOR GAS PIPING SYSTEMS.
18. ALL REMOVALS PERFORMED UNDER THIS CONTRACT SHALL INCLUDE REMOVAL OF ALL DEBRIS AND DISPOSAL AT AN APPROPRIATE SITE.
19. ALL LAVATORIES DESIGNED FOR USE BY PERSONS CONFINED TO WHEELCHAIRS SHALL HAVE THE HOT & COLD WATER SERVICES, AS WELL AS THE TRAP, RECESSED & INSULATED IN ACCORDANCE WITH ADA REQUIREMENTS.
20. REFER TO THE ARCHITECTURAL PLANS FOR ALL STRUCTURAL DIMENSIONS.
21. ALL WORK TO BE COORDINATED WITH OTHER TRADES.
22. ALL PIPING PENETRATIONS TO BE SEALED AROUND WITH "NELSON" FIRE SEAL.
23. ALL WATER SERVICE PIPING WITHIN THE BUILDING IS TO BE INSULATED IN ACCORDANCE WITH ALL NEW YORK STATE PLUMBING CODE (NYS-PC) AND NYS ENERGY CODES.
24. ALL PLUMBING FIXTURES TO BE INSTALLED AS PER FACTORY RECOMMENDATIONS.
25. ALL PLUMBING FIXTURES TO BE TRAPPED, VENTED AND PROVIDED WITH AIR SHOCKS WHEN REQUIRED.
26. PLUMBING FIXTURES SHALL COMPLY WITH "WATER CONSERVATION" REQUIREMENT AS DETAILED IN THE NYS-PC.
27. GC IS RESPONSIBLE TO SUBMIT APPLICATION AND TAP FEES TO LOCAL WATER AUTHORITY AND HAVE OWNER FILL OUT APPLICATION UPON COMPLETION OF PLUMBING ROUGH-IN INSPECTION.
28. ALL WATER AND HORIZONTAL STORM DRAIN PIPING INCLUDING ROOF DRAIN BODY SHALL BE INSULATED.
29. FLOOR DRAINS AND FLOOR CLEAN-OUTS SHALL BE SET LEVEL WITH FINISHED FLOORS.
30. ALL PIPE DIMENSIONS ARE INSIDE CLEAR.
31. ALL PLUMBING FIXTURES TO HAVE ISOLATION VALVES.
32. P.C. IS RESPONSIBLE TO ADJUST HOT WATER HEATER (HWH) TEMPERATURE TO ENSURE A TEMPERATURE RANGE OF 110°F TO 120°F AT THE INDIVIDUAL FIXTURE OUTPUT. P.C. MUST ENSURE A TEMPERATURE OF 120° F MAXIMUM AT THE FIXTURES TO PREVENT SCALDING.
33. P.C. IS RESPONSIBLE TO MOUNT HOT WATER HEATER IN CEILING AS HIGH AS POSSIBLE TO AVOID ANY CONFLICT WITH OTHER TRADES, CEILING HEIGHT, AND ANY STRUCTURE (I.E. BEAMS, JOIST, ETC).
34. BUILDING DOMESTIC WTR DEMAND & SIZING IS CALCULATED FROM NYS-PC SECTION 603, 604 & APPENDIX E.
35. BUILDING SANITARY DEMAND & SIZING IS CALCULATED FROM NYS-PC SECTIONS 709 AND 710.
36. ALL DFU CALCULATIONS ARE BASED OFF OF TABLE 709.1 OF THE NYS-PC.
37. ALL SANITARY AND STORM WATER PIPING SHALL BE PITCHED IN ACCORDANCE WITH NYS-PC SECTION 704 BASED ON TABLE 704.1 SLOPE OF HORIZONTAL DRAINAGE PIPE.
38. ALL STORM WATER PIPING IS SIZED FROM TABLE 1106.3 OF THE NYS-PC BASED OFF OF 3" RAINFALL RATE.
39. ALL VENT SIZING IS BASED OFF OF SECTION 916 OF THE NYS PLUMBING CODE.
40. P.C. TO PROVIDE 1-1/2" FIBERGLASS INSULATION AROUND ALL HORIZONTAL STORM WATER PIPING IN THE PLENUM.
41. ALL GAS PIPE SIZING IS BASED OFF OF SECTIONS 402 TABLE 402.4(2) OF THE NYS FUEL GAS CODES.
42. ALL PLUMBING EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS/SPECIFICATIONS.
43. ALL PLUMBBING EQUIPMENT SHALL BE MOUNTED ON MINIMUM 6" HIGH CONCRETE PAD UNLESS OTHERWISE NOTED (PAVER AND CINDER BLOCK IS NOT ACCEPTABLE).

LEED NOTES

1. ALL ADHESIVES, SEALANTS, PAINTS & COATINGS APPLIED TO THE INTERIOR OF THE BUILDING (WITHIN THE WEATHER PROOFING SYSTEM, INCLUDING WALL CAVITIES) MUST NOT EXCEED THE LEED VOC LIMITS. PROVIDE A VOC SUBMITTAL AND MSDS FOR ALL ADHESIVES, SEALANTS, PAINTS AND COATINGS TO BE APPLIED.

SHOP DWGS & EQUIPMENT SUBMITTALS:

1. THE CONTRACTOR MUST SUBMIT ANY EQUIPMENT ALTERNATES 2 WEEKS PRIOR TO BIDS DUE FOR REVIEW AND COMMENTS. ALTERNATES MUST BE ACCEPTED BY LIRO ENGINEERS, INC., THE ARCHITECT, AND THE OWNER PRIOR TO INCLUSION IN BID. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE EQUIPMENT ALTERNATES WITH OTHER TRADES AND MAKE ADJUSTMENTS TO THE MECHANICAL SYSTEMS, AS REQUIRED, TO ACCOMMODATE THESE NEW ALTERNATES.

2. PLUMBING CONTRACTOR TO PROVIDE X-RAY AND TEST CORE DRILLING TO DETERMINE EXACT LOCATION AND INVERT OF EXISTING SANITARY MAIN. SUBMIT FINDING VIA SHOP DRAWINGS TO ENGINEER FOR APPROVAL AND DIRECTION. COORDINATE LOCATION WITH SANITARY CONSTRUCTION PLANS TO DETERMINE ROUTING OF NEW PIPING AND POSSIBILITY OF RE-USING EXISTING PIPING.

3. CHANGES WHICH DEEM TO EFFECT THE DESIGN SHALL BE SUBMITTED WITH A NYS P.E. APPROVED DRAWING AT THE CONTRACTOR'S EXPENSE AND SHALL BE REVIEWED BY ENGINEER.

4. THE CONTRACTOR IS RESPONSIBLE TO SUBMIT ALL OF THE FOLLOWING ITEMS FOR REVIEW/APPROVAL BY NO MORE THAN 3 WEEKS AFTER THE CONTRACTOR'S CONTRACT/BID HAS BEEN AWARDED. ALL SUBMITTALS MUST BE SENT TOGETHER AS A SINGLE PACKAGE WITH MANUFACTURER'S SPECIFIC MODELS AND SPECIFICATIONS OUTLINED TO MATCH THE SCHEDULED REQUIREMENTS. EACH SUBMITTAL MUST BE LABELED WITH THE UNIT DESIGNATION USED WITHIN THIS DRAWING SET. IF THE SUBMITTALS PACKAGE IS FOUND TO BE INCOMPLETE UPON RECEIPT, THE PACKAGE WILL BE HELD AND WILL NOT BE REVIEWED UNTIL THE REMAINDER OF THE PACKAGE IS RECEIVED. ALL SHOP DRAWINGS AND SUBMITTALS SHALL BE SUBMITTED ELECTRONICALLY TO THE ENGINEER FOR REVIEW. CONTRACTOR SHALL NOT PURCHASE OR INSTALL ANY EQUIPMENT UNTIL WRITTEN ACCEPTANCE IS OBTAINED FROM THE ENGINEER.

- CONTRACTOR IS RESPONSIBLE TO DEVELOP & SUBMIT TO THE ENGINEER FOR REVIEW & APPROVAL THE FOLLOWING SHOP DWGS:

  A. GAS FIRED HOT WATER HEATER.
  B. HOT WATER RETURN PUMP.
  C. PLUMBING FIXTURES & ACCESSORIES.
  D. ALL VALVES.
  E. ALL PIPING, FITTINGS, & SUPPORT MATERIALS.
  F. WALL CARRIERS.
  G. RPZ ASSEMBLY, WATER METER
  H. HOT WATER TEMPERATURE REPORT (REPORT MUST
  I. SHOW HOW LONG IT TAKES TO GET 120°F HOT WATER
  J. TO ALL FIXTURES THAT REQUIRE HOT WATER AFTER 6
  K. HOURS OF STATIC SYSTEM.)

DRAWING REQUIREMENTS. IF CONFLICTS ARISE, CONTACT DESIGN ENGINEER BEFORE FABRICATION.

BUILDING PLAN REVIEW NOTE:

TOWN OF ISLIP BUILDING PLANS EXAMINER SHALL REVIEW THE ENCLOSED DOCUMENT FOR MINIMUM ACCEPTABLE PLAN SUBMITTAL REQUIREMENTS OF THE TOWN OF ISLIP AS SPECIFIED IN THE BUILDING AND/OR RESIDENTIAL CODE OF THE STATE OF NY. THIS REVIEW DOES NOT GUARANTEE COMPLIANCE WITH THAT CODE. THE SEAL AND SIGNATURE OF THE DESIGN PROFESSIONAL HAS BEEN INTERPRETED AS AN ATTESTATION THAT, TO THE BEST OF THE LICENSEE'S BELIEF AND INFORMATION, THE WORK IN THE DOCUMENT IS:

- ☐ ACCURATE.
- ☐ CONFORMS WITH GOVERNING CODES APPLICABLE AT THE TIME OF SUBMISSION.
- ☐ CONFORMS WITH REASONABLE STANDARDS OF PRACTICE AND VIEW TO THE SAFEGUARDING OF LIFE, HEALTH, PROPERTY AND PUBLIC WELFARE.
- ☐ IS THE RESPONSIBILITY OF THE LICENSEE.

ABBREVIATIONS:

AD	ACCESS DOOR
BFP	BACKFLOW PREVENTER
CO	CLEAN OUT
CW	COLD WATER
DCV	DOUBLE CHECK VALVE
DFU	DRAINAGE FIXTURE UNIT
DPCO	DECK PLATE CLEAN OUT
FC	FIELD CONNECT
FD	FLOOR DRAIN
FFD	FUNNEL FLOOR DRAIN
FU	FIXTURE UNIT
HW	HOT WATER
HWR	HOT WATER RETURN
IAW	IN ACCORDANCE WITH
IWFD	INDIRECT WASTE FUNNEL DRAIN
LAV	LAVATORY
JS	JANITOR'S SINK
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NYS-PC	NEW YORK STATE PLUMBING CODE
RD	ROOF DRAIN
S	SANITARY
SD	STORM DRAIN
TMV	THERMOSTATIC MIXING VALVE
U.O.N.	UNLESS OTHERWISE NOTED
UR	URINAL
V	VENT
WC	WATER CLOSET
PC	PLUMBING CONTRACTOR
MC	MECHANICAL CONTRACTOR
TYP.	TYPICAL
VIF	VERIFY IN FIELD
WCO	WALL CLEAN OUT
WFU	WATER FIXTURE UNITS

THE ABBREVIATIONS ARE SHOWN FOR GENERAL REFERENCE ONLY. THE PRESCENCE OF AN ABBREIVATION ON THIS LIST DOES NOT IMPLY ITS USE ON THIS PROJECT. REFER TO DRAWINGS FOR SPECIFIC ABBREVIATIONS USED.

ALL PLUMBING EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS/SPECIFICATIONS.

ALL PLUMBING EQUIPMENT SHALL BE MOUNTED ON MINIMUM 6" HIGH CONCRETE PAD UNLESS OTHERWISE NOTED (PAVER AND CINDER BLOCK IS NOT ACCEPTABLE).

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
0	08/31/2022	BID SET
1	10/12/2022	50%CD

KEY PLAN:

N TRUE

DRAWING TITLE:
PLUMBING NOTES, SYMBOLS, & LEGEND

DRAWN BY: SZ
CHECKED BY: MC
SCALE: 1/8" = 1'-0"
PROJECT NO.: 21-125-2125.04

SEAL:

DRAWING NO.:
P-001

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/21-125-2125.04 - Wayland Senior Center - PLU-FP V19.rvt

DATE & TIME PRINTED: 10/11/2022 10:04:40 AM

APARTMENT PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE TYPE	MANUFACTURER	MODEL	STYLE	SIZE	FINISH/COLOR	ACCESSORIES TYPE	MANUFACTURER	MODEL	STYLE	SUPPLY	FINISH/COLOR	FLOW RATE (GPM)	REMARKS		SYMBOL
WC-1	WATER CLOSET	TOTO	CST454CEF	DRAKE II CLOSED COUPED TOILET	28-1/2" X 30"	WHITE	---	---	---	---	1/2" CW	---	1.28 GPF			WC-1
WC-1A	WATER CLOSET	TOTO	CST454CEF	DRAKE II CLOSED COUPED TOILET	28-1/2" X 30"	WHITE	---	---	---	---	1/2" CW	---	1.28 GPF		ADA	WC-1A
UR-1A	URINAL	SLOAN	1001000	WATERFREE URINAL	14-3/8" X 19-5/8"	WHITE	---	---	---	---	---	---	---		ADA	UR-1A
LAV-1	LAVATORY	KOHLER	K-20000	CAXTON RECTANGLE UNDERMOUNT SINK	15-11/16" X 20-1/4"	WHITE	FAUCET	KOHLER	K-15199-4NDRA	CORALAS	1/2" CW 1/2" HW	POLISHED CHROME	0.50			LAV-1
LAV-1A	LAVATORY	KOHLER	K-20000	CAXTON RECTANGLE UNDERMOUNT SINK	15-11/16" X 20-1/4"	WHITE	FAUCET	KOHLER	K-15199-4NDRA	CORALAS	1/2" CW 1/2" HW	POLISHED CHROME	0.50		ADA	LAV-1A
SK-1	ACTIVITY ROOM "C" SINK						FAUCET				1/2" CW 1/2" HW					SK-1
SK-2	ACTIVITY ROOM "B" SINK						FAUCET				1/2" CW 1/2" HW					SK-2
SK-3	ACTIVITY ROOM "A" SINK						FAUCET				1/2" CW 1/2" HW					SK-3
SK-4	SERVING PANTRY SINK	KOHLER	K-8188	VERTICYL SQUARE UNDERMOUNT SINK	13-1/4" X 13-1/16"	WHITE	FAUCET	DELTA	2171LF	BAR SINK FAUCET	1/2" CW 1/2" HW	POLISHED CHROME	0.50	PROVIDE FAUCET WITH 0.50 GPM AERATOR		SK-4
SK-5	SERVING PANTRY SINK						FAUCET				1/2" CW 1/2" HW					SK-5

GENERAL PLUMBING SCHEDULE

I.D.	FIXTURE TYPE	MANUFACTURER	MODEL	STYLE	SIZE	FINISH/COLOR	SUPPLY CW	SUPPLY HW	REMARKS
HB-1	HOSE BIBB	WOODFORD	B24	ANTI-SIPHON	---	CHROME	1/2"	---	FURNISH WITH LOOSE TEE KEY HANDLE
WH-1	WALL HYDRANT	WOODFORD	B65-CH	AUTOMATIC DRAINING, FREEZELESS, RECESSED BOX	7 1/2" X 6 1/2"	CHROME	3/4"	---	FURNISH WITH LOOSE TEE KEY HANDLE
JS-1	JANITORS SINK	FIAT	3624	MOLDED STONE	36" X 24"	CHROME	1/2"	1/2"	PROVIDE SERVICE FAUCET FIAT MODEL # 830-AA, HOSE AND HOSE BRACKET MODEL # 832-AA, AND MOP HANGER MODEL # 889-CC
ET-2	EXPANSION TANK	AMTROL	ST-180V	THERM-X-TROL	22" X 46 3/4	---	1 1/4"	---	

DRAIN SCHEDULE

I.D.	LOCATION	MANUFACTURER	MODEL	OUTLET	STRAINER	REMARKS
FD-1	RESTROOMS	JR SMITH	2010Y02-B04CP-P050	2"	4" SQUARE	
FD-2	WATER SERVICE ROOM	JR SMITH	2233Y04-ANB-(P050)	4"	12" ROUND	TRAP PRIMER CONNECTION NOT REQUIRED ON GARAGE DRAINS

ELECTRIC WATER HEATER SCHEDULE

SYMBOL	MANUFACTURER	MODEL NO.	TANK CAPACITY (GALLONS)	RECOVERY RATE @100°F (GPH)	TEMPERATURE SETTINGS (°F)	ELECTRICAL INPUT (KW)	ELECTRICAL VOLTAGE	ELECTRICAL PHASE	ELECTRICAL # OF ELEMENTS	REMARKS
EWH-1	A.O. SMITH	DRE-52-12	50	50	140	12.3	208	1	3	

WATER SUB-METER SCHEDULE

I.D.	TYPE	MANUFACTURER	MODEL	STYLE	SIZE	FINISH/COLOR	REMARKS
WM-1	WATER METER (DOMESTIC WATER SERVICE)	NEPTUNE	3" TRU/FLO COMPOUND SERIES METER	REMOTE READING	3"	HIGH COPPER ALLOY	PROVIDE REMOTE READING REGISTER
WM-2	WATER METER (LEVEL 1 - IRRIGATION)	NEPTUNE	T-10 METER	REMOTE READING	1"	HIGH COPPER ALLOY	PROVIDE REMOTE READING REGISTER

BACKFLOW PREVENTER SCHEDULE

I.D.	FIXTURE TYPE	MANUFACTURER	MODEL	STYLE	LOCATION	SUPPLY CW	SUPPLY HW	REMARKS
BFP-1	BACKFLOW PREVENTER	WATTS		REDUCED PRESSURE BACKFLOW PREVENTER	LEVEL 1 WATER SERVICE ROOM	1-1/2"	---	(LEVEL 1 WATER SERVICE ROOM - IRRIGATION)

MIXING VALVE SCHEDULE

I.D.	FIXTURE TYPE	MANUFACTURER	MODEL	STYLE	SIZE	FINISH/COLOR	SUPPLY INLETS	SUPPLY OUTLETS	REMARKS
MV-1	MIXING VALVE (DOMESTIC HOT WATER)	LEONARD							

PUMP SCHEDULE

I.D.	TYPE	LOCATION	MANUFACTURER	MODEL	G.P.M.	PSI	HEAD (FT)	ELEC. CHARACTERISTICS H.P.	VOLT	PHASE	R.P.M.	REMARKS
CP-1	HOT WATER RECIRCULATOR PUMP	LEVEL 1	GRUNDFOS	MAGNA 3 40-80 F	15	-	15	-	115	1	-	
CP-2	HOT WATER RECIRCULATOR PUMP	LEVEL 1	GRUNDFOS	MAGNA 3 40-80 F	15	-	15	-	115	1	-	

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
0	10/12/2022	50%CD

KEY PLAN:

N TRUE

DRAWING TITLE:
PLUMBING SCHEDULES

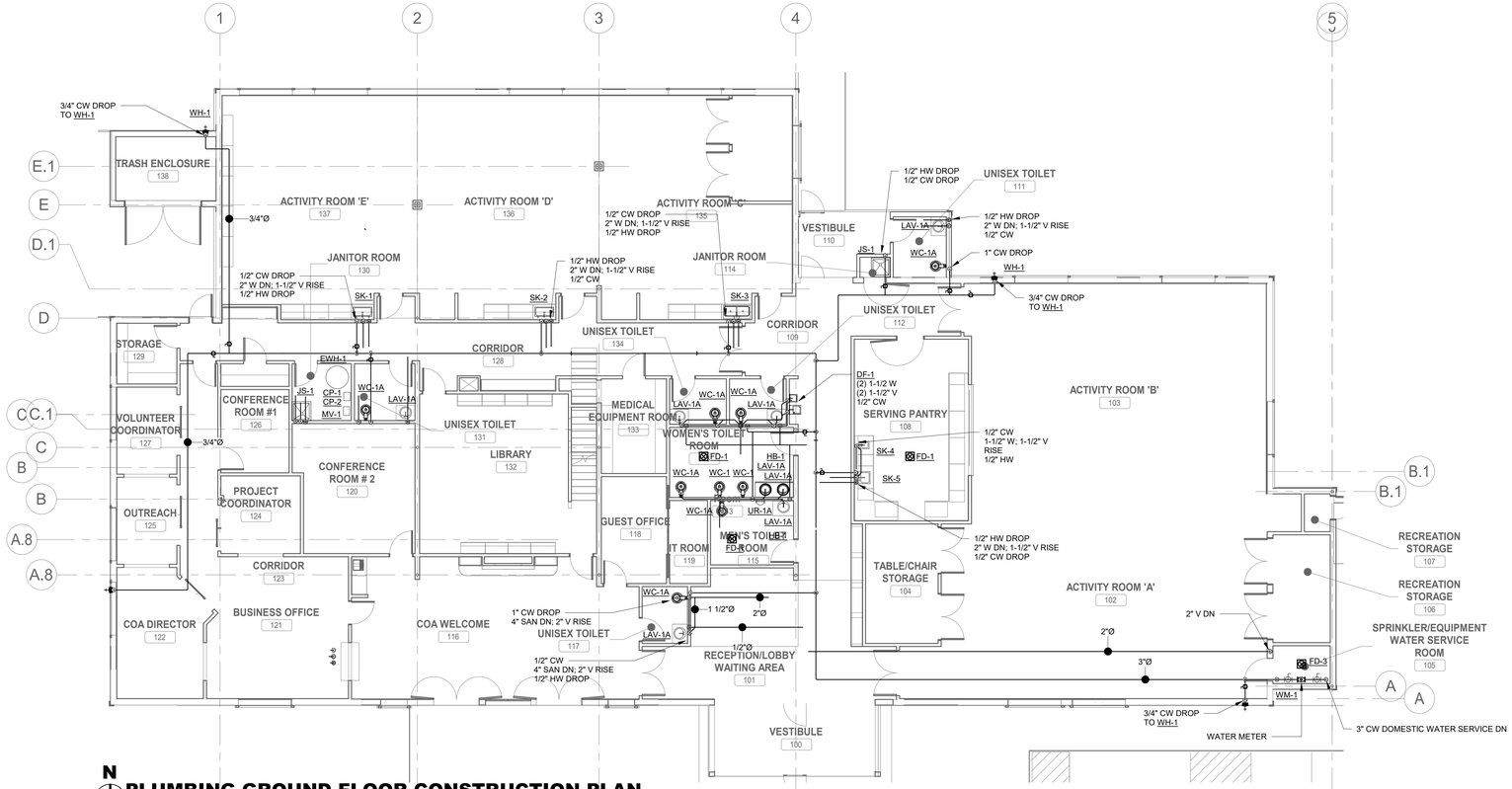
DRAWN BY: SZ
CHECKED BY: MC
SCALE: 1/8" = 1'-0"
PROJECT NO.: 21-125-2125.04

SEAL:

DRAWING NO.:
P-002

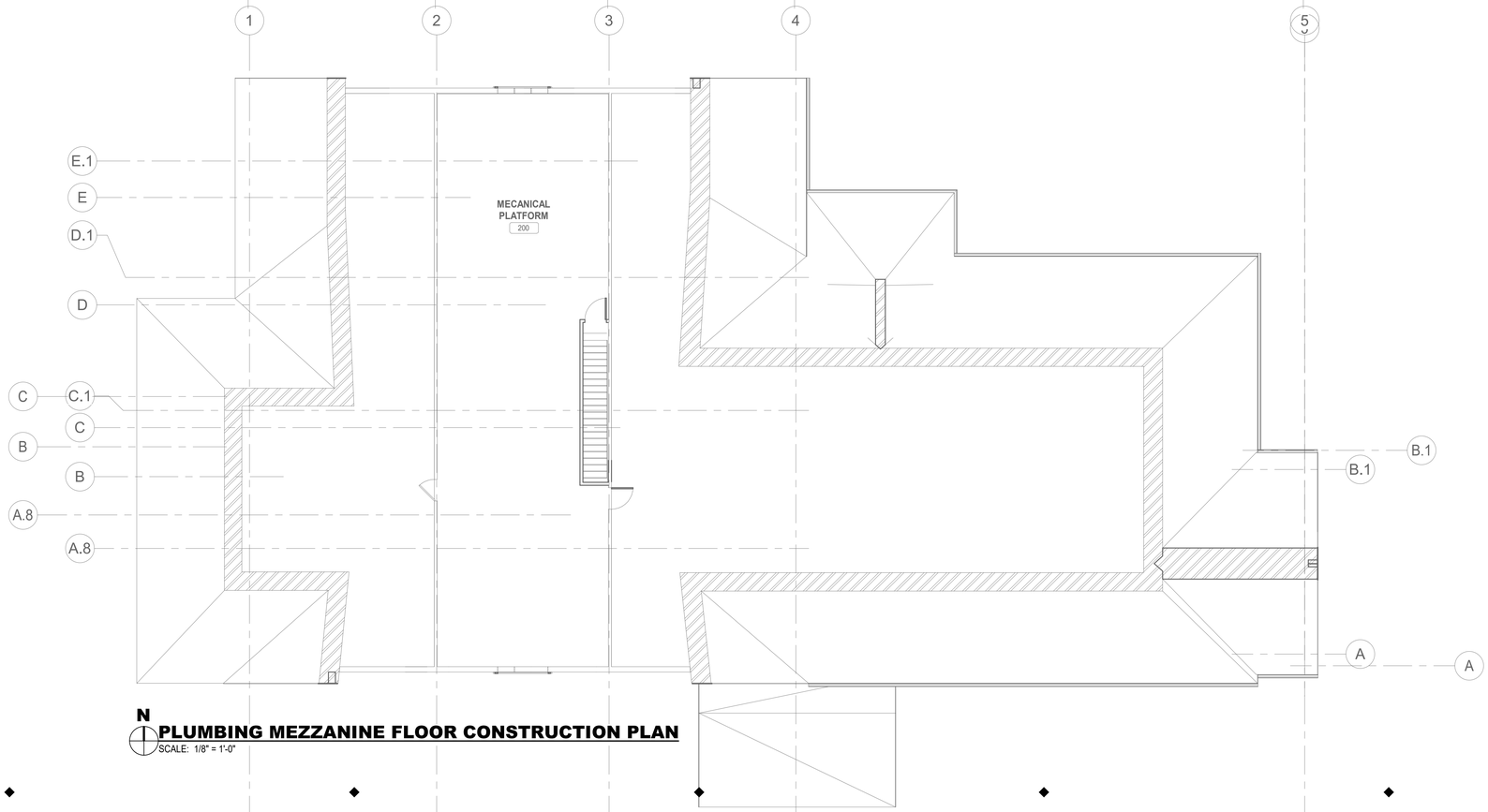
PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/21-125-2125.04 - Wayland Senior Center - MLU-RP V19.rvt

DATE & TIME PRINTED: 10/11/2022 10:04:40 AM



PLUMBING GROUND FLOOR CONSTRUCTION PLAN

SCALE: 1/8" = 1'-0"



PLUMBING MEZZANINE FLOOR CONSTRUCTION PLAN

SCALE: 1/8" = 1'-0"

PLUMBING CONSTRUCTION NOTES

1. XXX
2. XXX
3. XXX

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CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
0	10/12/2022	50%CD

KEY PLAN:

DRAWING TITLE:
PLUMBING GROUND FLOOR CONSTRUCTION PLAN

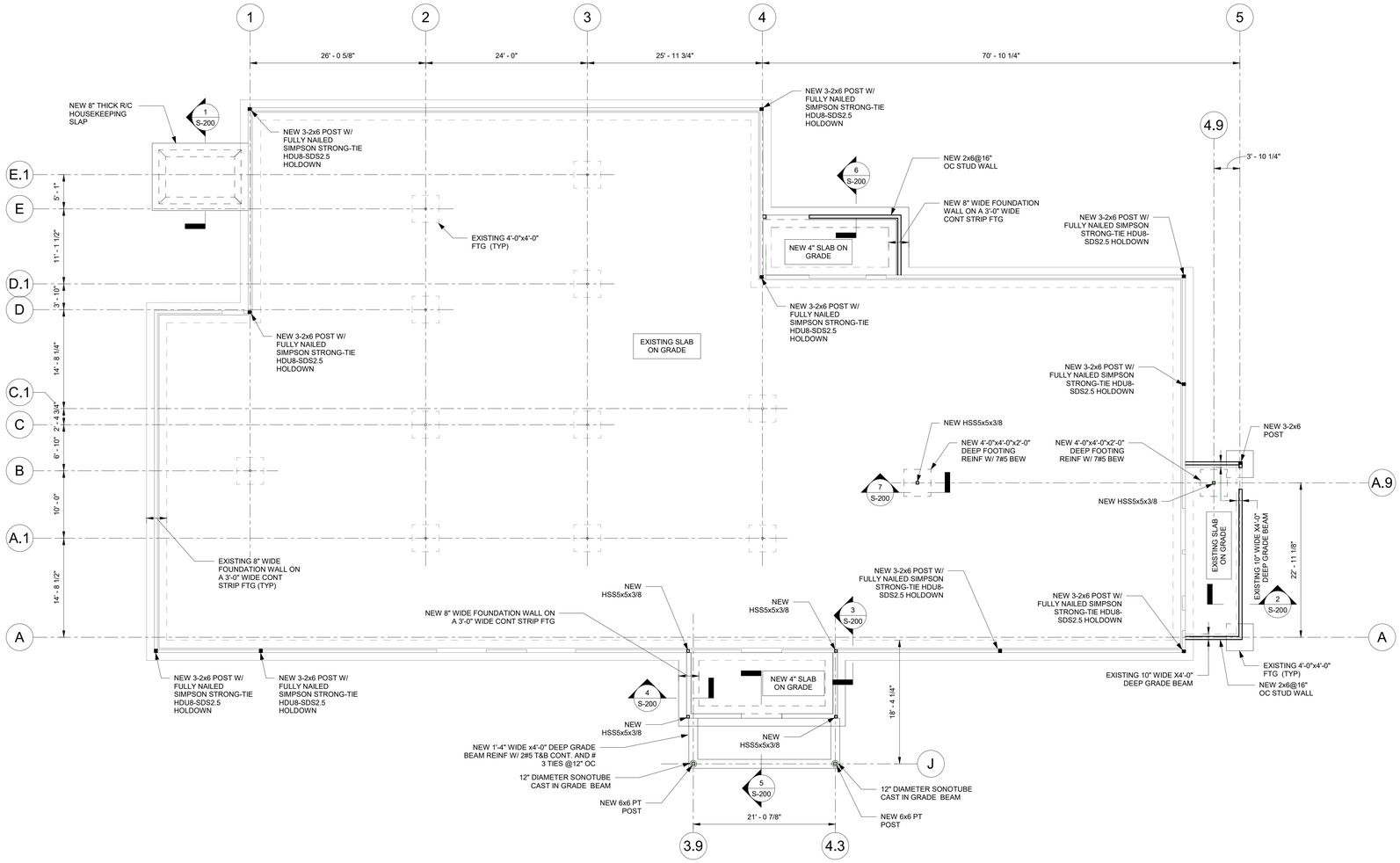
DRAWN BY: Author
CHECKED BY: Checker
SCALE: As indicated
PROJECT NO.: 21-125-2125.04

SEAL:

DRAWING NO.:
P-201

PROJECT LOCATION:
BIM 360://Town of Wayland On Call TASK ORDER#4/21-125-2125.04 - Wayland Senior Center - PLU-FP V19.rvt

DATE & TIME PRINTED: 10/11/2022 10:04:40 AM



1 FOUNDATION PLAN
1/8" = 1'-0"

PLAN NOTES:

1. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS AND SPECIFICATIONS. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, EQUIPMENT, AND FIRE PROTECTION DRAWINGS FOR LOCATIONS, DIMENSIONS, AND DETAILS OF OPENINGS, SLEEVES, EMBEDMENTS, INSERTS, PADS, CURBS, DEPRESSIONS, ANCHOR BOLTS, AND OTHER PROJECT REQUIREMENTS NOT SHOWN ON STRUCTURAL DRAWINGS.
2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING IN THE FIELD THE EXISTENCE AND LOCATION OF OVERHEAD, BURIED AND/OR EMBEDDED UTILITIES, AND FOR VERIFYING LOCATIONS OF ALL EMBEDDED MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS AFFECTED BY THE WORK OF THIS CONTRACT.
3. CODES AND STANDARDS
   - THE MASSACHUSETTS STATE BUILDING CODE, 9th EDITION (IBC 2015 AND IEBC 2015) WITH 780 CMR AMENDMENTS
   - "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", AMERICAN CONCRETE INSTITUTE ACI 318-14.
   - "MANUAL OF STEEL CONSTRUCTION", AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 14TH EDITION.
   - "STRUCTURAL WELDING CODE- STEEL"-AMERICAN WELDING SOCIETY-AWS D1.1-2010.
   - "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDING"- AISC 341-10.
   - SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS-AISC 360-10.
   - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES ASCE 7-10.
4. CONCRETE SHALL BE 4000 PSI MIN.
5. STRUCTURAL STEEL SHALL BE THE FOLLOWING
   W-BEAMS: ASTM A992 50 KSI
   PLATES/ANGLES: ASTM A36
   COLUMNS: ASTM A500 GRADE B
6. DIMENSIONAL LUMBER SHALL BE SPRUCE PINE-FIR NO. 1/ NO. 2 OR BETTER
7. ENGINEERED LAMINTED VENEER LUMBER "LVL" SHALL BE BY WEYERHAUSER OR APPROVED EQUIVALENT.
8. FOOTINGS ARE DESIGNED BASED ON AN ASSUMED ALLOWABLE SOIL BEARING PRESSURE OF 1 KSF.

TOWN OF WAYLAND

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WAYLAND, MA 01778

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570 WASHINGTON AVE.
PORTLAND, ME 04103
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FAX. 207.582.8320

CONSULTANT:

ISSUE/REVISION:

NO:	DATE:	DESCRIPTION:
1	10/12/2022	50% CD SET

KEY PLAN:

N TRUE

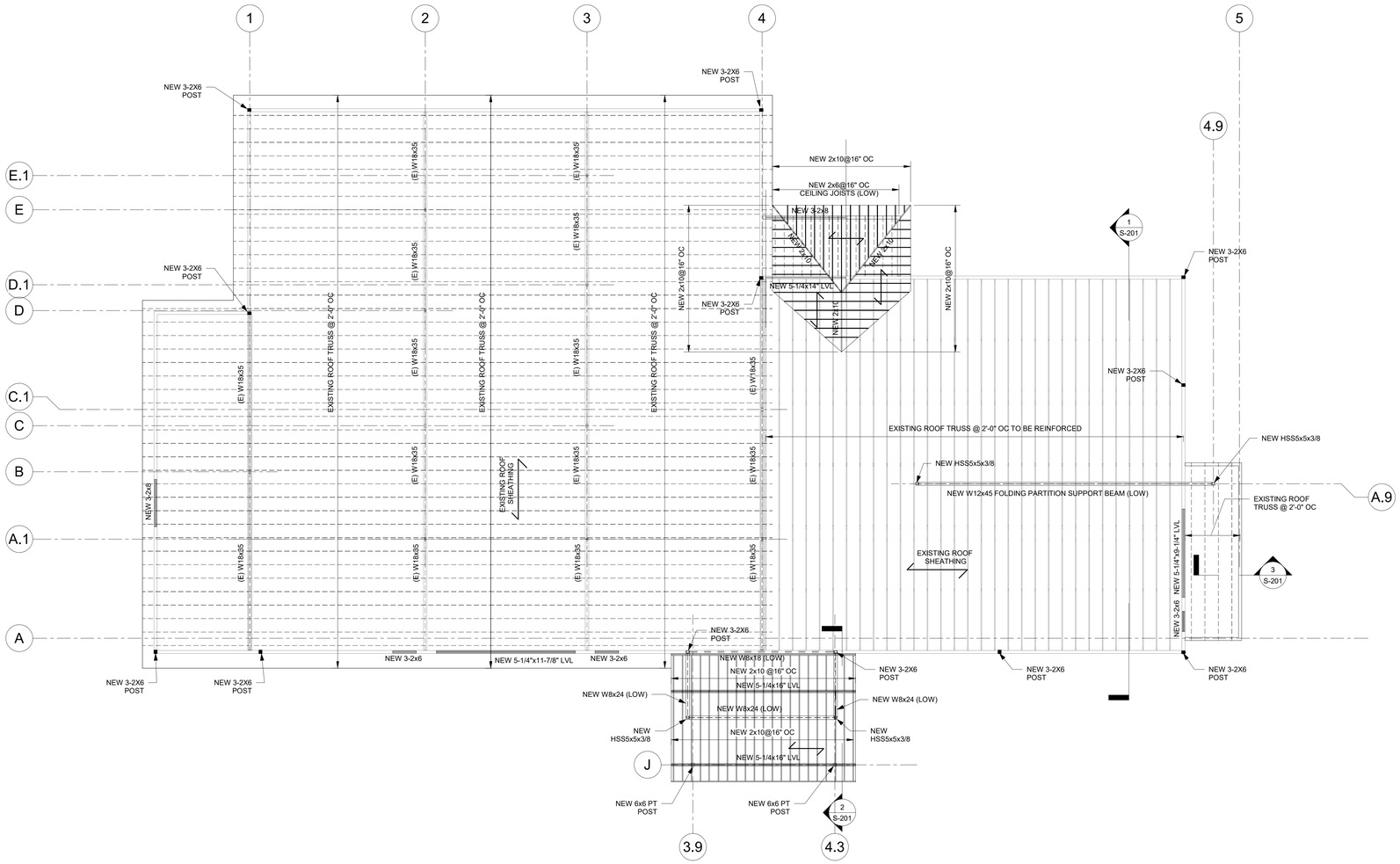
DRAWING TITLE:
OVERALL FOUNDATION PLAN

DRAWN BY: NP
CHECKED BY: FH
SCALE: 1/8" = 1'-0"
PROJECT NO.: Project Number
SEAL:

DRAWING NO.:
S-100

PROJECT LOCATION:
W:\21-125-2125.04 Wayland Community Center\Revit\21-125-2125.04 Wayland Community Center Structural.rvt

DATE & TIME PRINTED: 10/12/2022 3:22:30 PM



1 TOP OF UPPER ROOF
1/8" = 1'-0"

PLAN NOTES:

1. ⟷ INDICATES THE SPAN DIRECTION OF NEW 5/8" PLYWOOD ROOF SHEATHING GLUED & NAILED TO SUPPORTING MEMBERS WITH 10d NAILS @ 6" O.C.
2. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS AND SPECIFICATIONS. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, EQUIPMENT, AND FIRE PROTECTION DRAWINGS FOR LOCATIONS, DIMENSIONS, AND DETAILS OF OPENINGS, SLEEVES, EMBEDMENTS, INSERTS, PADS, CURBS, DEPRESSIONS, ANCHOR BOLTS, AND OTHER PROJECT REQUIREMENTS NOT SHOWN ON STRUCTURAL DRAWINGS.
3. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING IN THE FIELD THE EXISTENCE AND LOCATION OF OVERHEAD, BURIED AND/OR EMBEDDED UTILITIES, AND FOR VERIFYING LOCATIONS OF ALL EMBEDDED MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS AFFECTED BY THE WORK OF THIS CONTRACT.
4. CODES AND STANDARDS
   - THE MASSACHUSETTS STATE BUILDING CODE, 9th EDITION (IBC 2015 AND IEBC 2015) WITH 780 CMR AMENDMENTS
   - "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", AMERICAN CONCRETE INSTITUTE ACI 318-14.
   - "MANUAL OF STEEL CONSTRUCTION", AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 14TH EDITION.
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NO:	DATE:	DESCRIPTION:
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KEY PLAN:

N TRUE

DRAWING TITLE:
ROOF FRAMING PLAN

DRAWN BY: NP
CHECKED BY: FH
SCALE: 1/8" = 1'-0"
PROJECT NO.: Project Number

SEAL:

DRAWING NO.:
S-101

PROJECT LOCATION:
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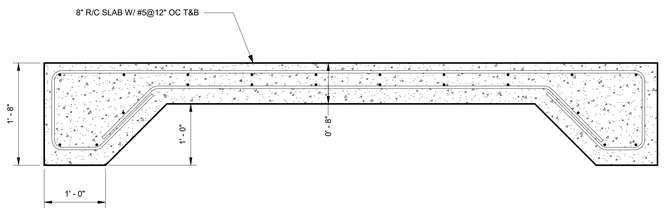
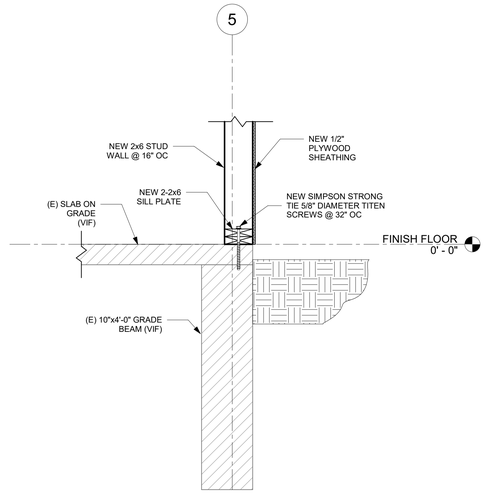


1 SECTION 1
1" = 1'-0"



2 SECTION 2
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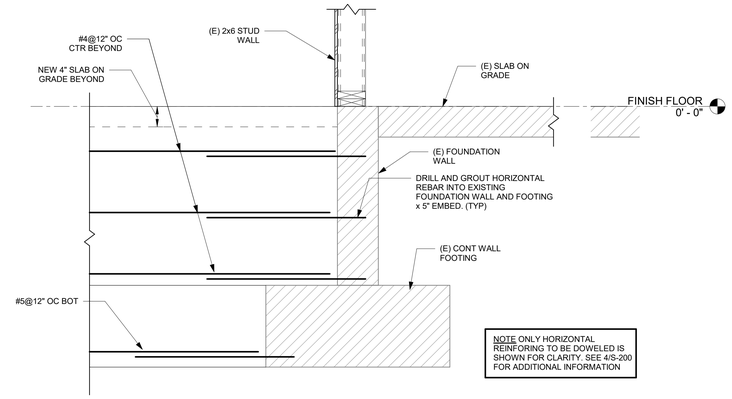
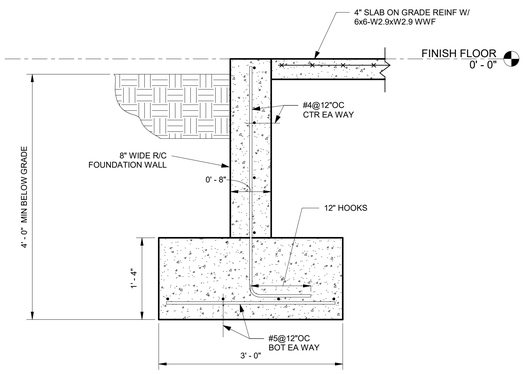
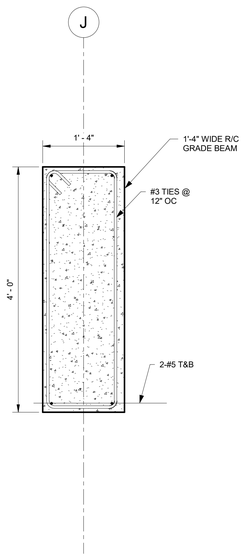
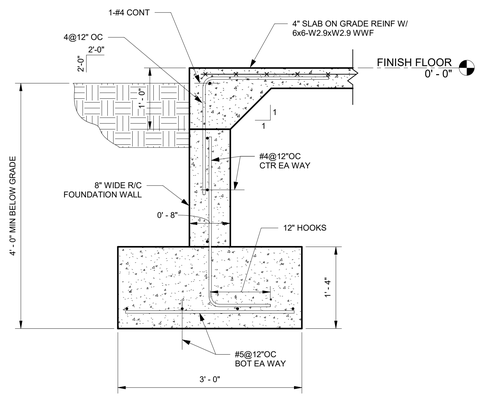


3 SECTION 3
1" = 1'-0"

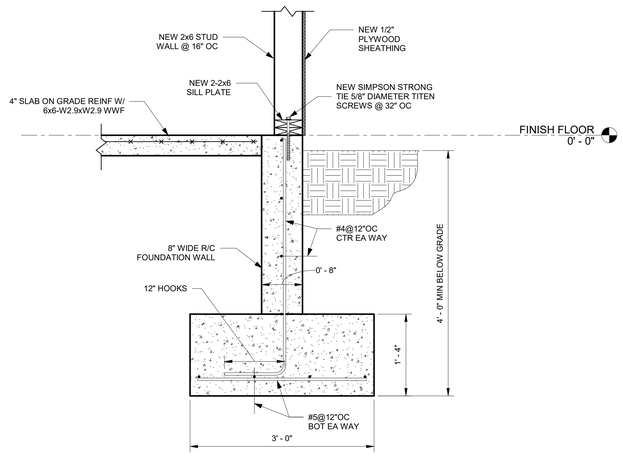


4 SECTION 4
1" = 1'-0"

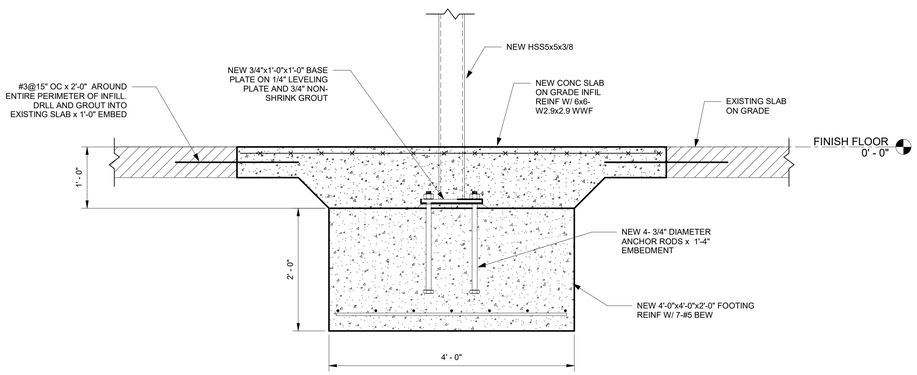




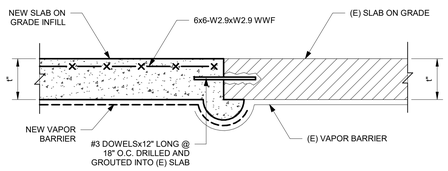
5 SECTION 5
1" = 1'-0"



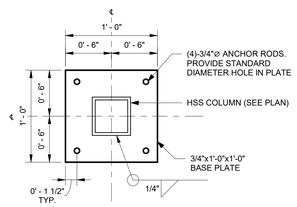
6 SECTION 6
1" = 1'-0"



7 SECTION 7
1" = 1'-0"



8 TYPICAL SLAB INFILL DETAIL
1" = 1'-0"



9 TYPICAL BASEPLATE DETAIL
1 1/2" = 1'-0"

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KEY PLAN:

N TRUE

DRAWING TITLE:
FOUNDATION SECTIONS

DRAWN BY: NP
CHECKED BY: FH
SCALE: As indicated
PROJECT NO.: Project Number

SEAL:

DRAWING NO.:
S-200

PROJECT LOCATION:
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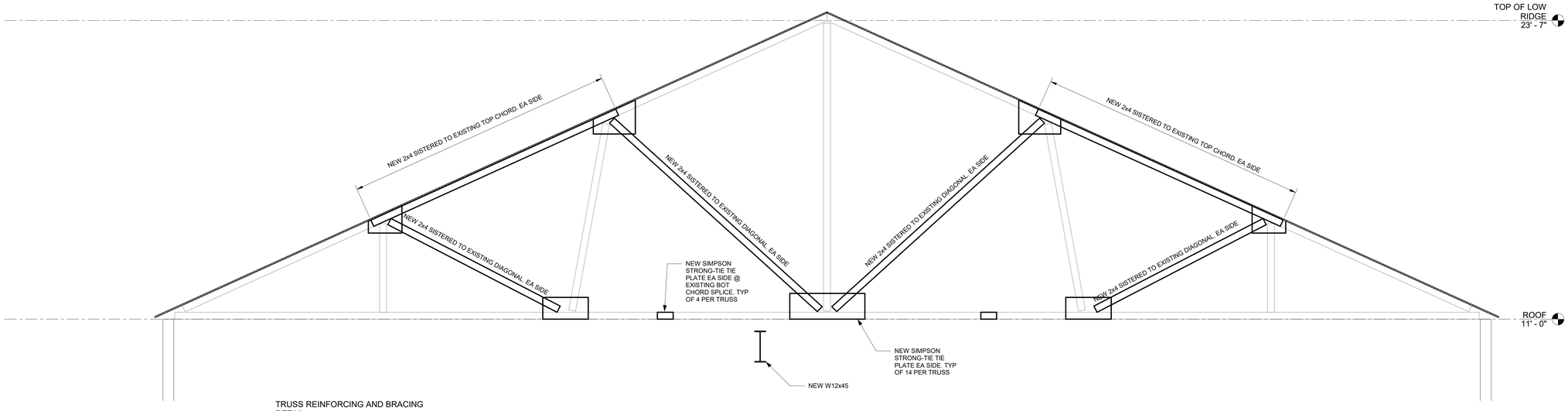
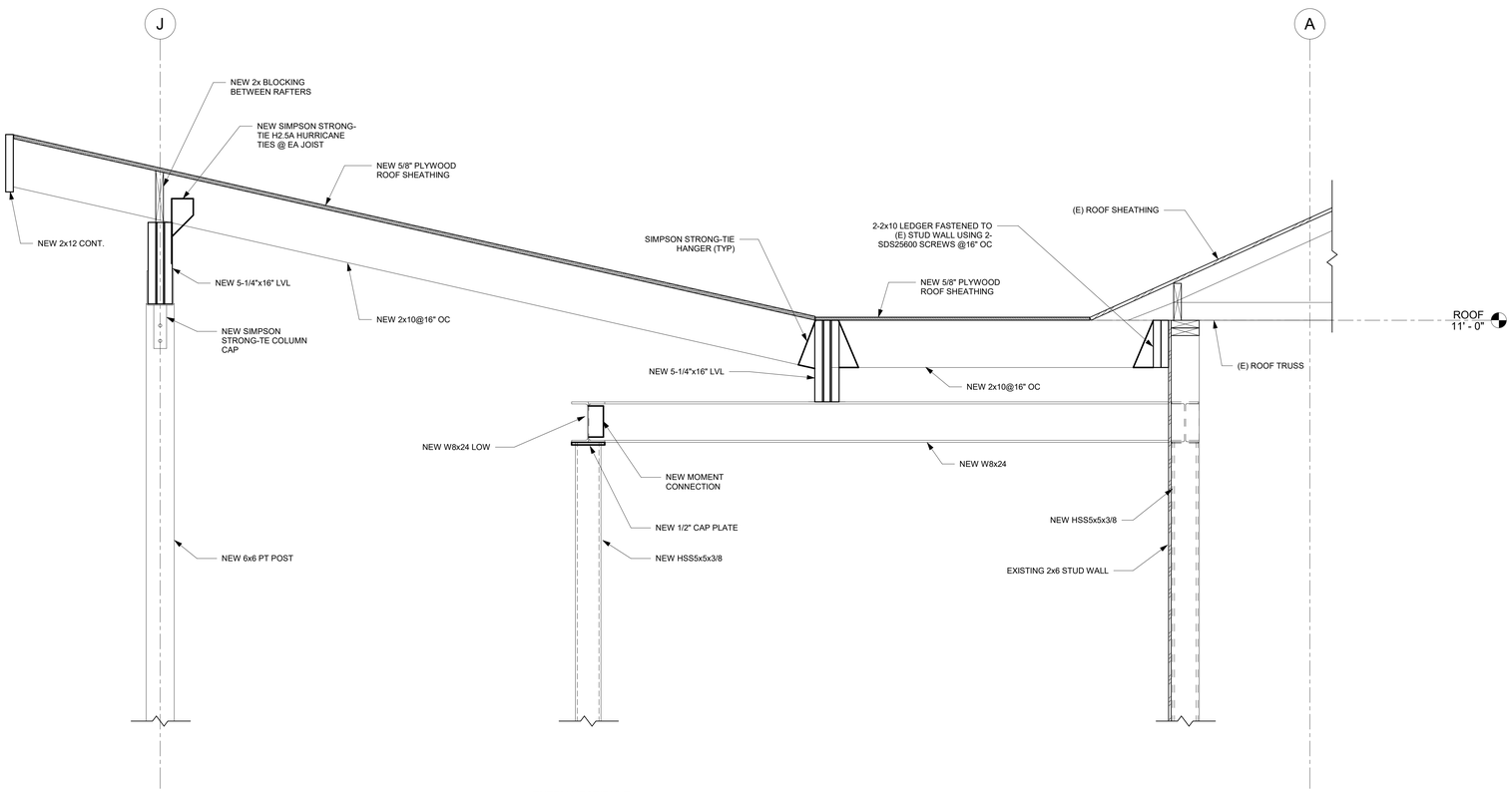
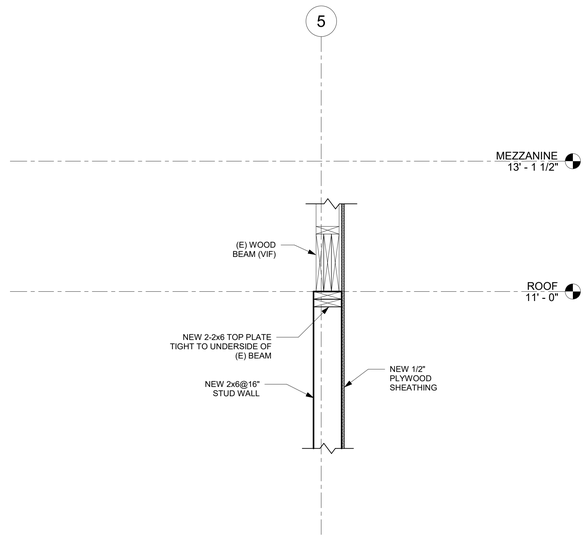


1 TRUSS REINFORCING AND BRACING DETAIL
1/2" = 1'-0"



2 ENTRY VESTIBULE
1" = 1'-0"



3 EXISTING ENTRY VESTIBULE
1" = 1'-0"

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KEY PLAN:

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DRAWING TITLE:
FRAMING SECTIONS

DRAWN BY: NP
CHECKED BY: FH
SCALE: As indicated
PROJECT NO.: Project Number

SEAL:

DRAWING NO.:
S-201

PROJECT LOCATION:
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