OPERATIONS CENTER OFFICE AND TOILET REMODEL DULUTH TRANSIT AUTHORITY 2402 WEST MICHIGAN STREET, DULUTH, MINNESOTA 55806

LOCATION MAP

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PROJECT TEAM

CLIENT

DULUTH TRANSIT AUTHORITY 2402 WEST MICHIGAN STREET DULUTH, MN 55806 PHONE: (218) 623-4329 CONTACT: NANCY BROWN PROCUREMENT MANAGER NBROWN@SDULUTHTRANSIT.COM

PROJECT MANAGER / ARCHITECT

LHB, INC. 21 WEST SUPERIOR STREET SUITE 500 DULUTH, MN 55802 PHONE: (218) 727-8446 CONTACT: BRANDEE LIAN BRANDEE.LIAN@LHBCORP.COM

MECHANICAL ENGINEER

1

LHB, INC. 21 WEST SUPERIOR STREET SUITE 500 DULUTH, MN 55802 PHONE: (218) 727-8446 CONTACT: STEWART CRAN STEWART.CRAN@LHBCORP.COM

INTERIOR DESIGNER

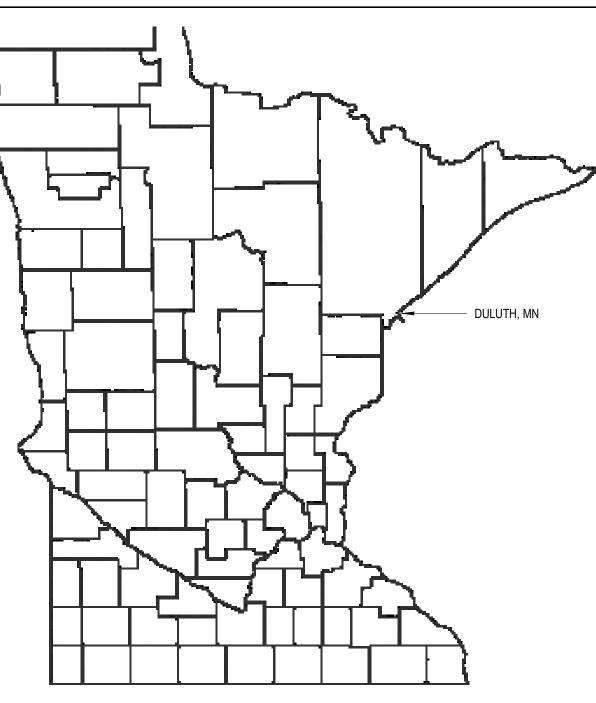
LHB, INC. 21 WEST SUPERIOR STREET SUITE 500 DULUTH, MN 55802 PHONE: (218) 727-8446 CONTACT: KIIRI SCHOENBERG KIIRI.SCHOENBERG@LHBCORP.COM

ELECTRICAL ENGINEER

LHB, INC. 21 WEST SUPERIOR STREET SUITE 500 DULUTH, MN 55802 PHONE: (218) 727-8446 CONTACT: MARK VINCENT MARK.VINCENT@LHBCORP.COM

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STATE MAP



SHEET INDEX

NO.	SHEET NAME	
G001 G002	PROJECT TITLE SHEET GENERAL NOTES, ABBREVIATIONS, ANNOTATIONS	
G002 G003	CODE PLAN AND SUMMARY	
G004	STANDARD MOUNTING HEIGHTS	THIS SQUARE APPEARS 1/2"x1/2" ON FULL SIZE SHEETS
AD101	OFFICE DEMOLITION PLANS	
AD102 AD103	OFFICE DEMOLITION PLANS TOILET AND LOCKER ROOM DEMOLITION PLANS	
AD103 AD104	TOILET AND LOCKER ROOM DEMOLITION REFLECTED CEILING PLANS	
AD105	TOILET AND LOCKER ROOM DEMOLITION PLAN	
AD106	TOILET AND LOCKER ROOM DEMOLITION REFLECTED CEILING PLAN	
A100 A101	LEVEL 1 OVERALL FLOOR PLAN OFFICE FLOOR PLANS AND REFLECTED CEILING PLANS	10/24/2022 100% DOCUMENTS
A102	OFFICE FLOOR PLANS AND REFLECTED CEILING FLANS	NO DATE ISSUED FOR
A103	TOILET AND LOCKER ROOM FLOOR PLANS	
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A701	OFFICE ROOM FINISH SCHEDULE, FINISH PLAN AND DETAILS	NO DATE REVISION
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P001	PLUMBING SYMBOLS AND ABBREVIATIONS	
PD100 PD101	LEVEL 0 & 1 PLUMBING DEMOLITION PLANS LEVEL 1 & 2 PLUMBING DEMOLITION PLANS	I HEREBY CERTIFY that this plan, specification or report was prepared by me or under my direct
PD101 PD102	LEVEL 1 & 2 PLOMBING DEMOLITION PLANS	supervision and that I am a duly Licensed Architect
P110	LEVEL 0 & 1 SANITARY PLANS	under the laws of the State of Minnesota.
P111	LEVEL 1 & 2 SANITARY PLANS	
P112	LEVEL 0 & 1 MAINTENANCE LOCKER ROOMS SANITARY PLANS	Par and 1
P121 P122	LEVEL 1 DOMESTIC WATER PLAN LEVEL 1 MAINTENANCE LOCKER ROOMS DOMESTIC WATER PLAN	Signature:
P122 P911	SANITARY RISER DIAGRAMS	Typed or Printed Name: BRANDEE NESS LIAN
P921	DOMESTIC WATER RISER DIAGRAMS	Date: 10/24/2022 Reg. No.: 42859
M001	MECHANICAL SYMBOLS AND ABBREVIATIONS	Dale. 10/24/2022 Neg. No 42000
MD101 MD101A	LEVEL 1 & 2 MECHANICAL DEMOLITION PLANS	COPYRIGHT 2022 BY LHB, INC. ALL RIGHTS RESERVED.
MD101A M101A	LEVEL 1 MAINTENANCE LOCKER ROOMS MECHANICAL DEMOLITION PLANS LEVEL 1 MECHANICAL PLANS	COPTRIGHT 2022 BT LHD, INC. ALL RIGHTS RESERVED.
M101B	LEVEL 1 MECHANICAL PLANS	PROJECT NAME:
M102	LEVEL 1 MAINTENANCE LOCKER ROOMS MECHANICAL PLANS	OPS CENTER OFFICE
M601	MECHANICAL SCHEDULES AND DETAILS	
E001 E002	ELECTRICAL SYMBOLS AND ABBREVIATIONS STANDARD INSTALLATION REQUIREMENTS	AND TOILET REMODEL
E003	STANDARD INSTALLATION REQUIREMENTS	
ED101	OFFICE ELECTRICAL DEMOLITION PLANS	2402 WEST MICHIGAN ST.
ED102	OFFICE ELECTRCIAL DEMOLITION PLANS	DULUTH, MINNESOTA 55806
ED103 ED104	TOILET AND LOCKER ROOM POWER & TECHNOLOGY DEMOLITION PLANS TOILET AND LOCKER ROOM POWER & TECHNOLOGY DEMOLITION PLAN	
ED104	OFFICE LIGHTING DEMOLITION PLANS	DRAWING TITLE:
ED122	TOILET AND LOCKER ROOM LIGHTING DEMOLITION PLANS	PROJECT TITLE
ED123	TOILET AND LOCKER ROOM LIGHTING DEMOLITION PLAN	PROJECT TITLE
EP101 EP102	OFFICE POWER AND TECHNOLOGY PLANS OFFICE POWER AND TECHNOLOGY PLANS	SHEET
EP 102 EP103	TOILET AND LOCKER ROOM POWER & TECHNOLOGY PLANS	
EP104	TOILET AND LOCKER ROOM POWER & TECHNOLOGY PLAN	
EL121	OFFICE LIGHTING PLAN	
EL122	OFFICE LIGHTING PLANS	
EL123 EL124	TOILET AND LOCKER ROOM LIGHTING PLANS TOILET AND LOCKER ROOM LIGHTING PLAN	
E601	OFFICE ELECTRICAL SCHEDULES	
E602	TOILET AND LOCKER ROOM ELECTRICAL SCHEDULES	DRAWN BY: CMK
	TOILET AND EOCREM NOOM ELECTRICAL SCHEDULES	CHECKED BY: BNL

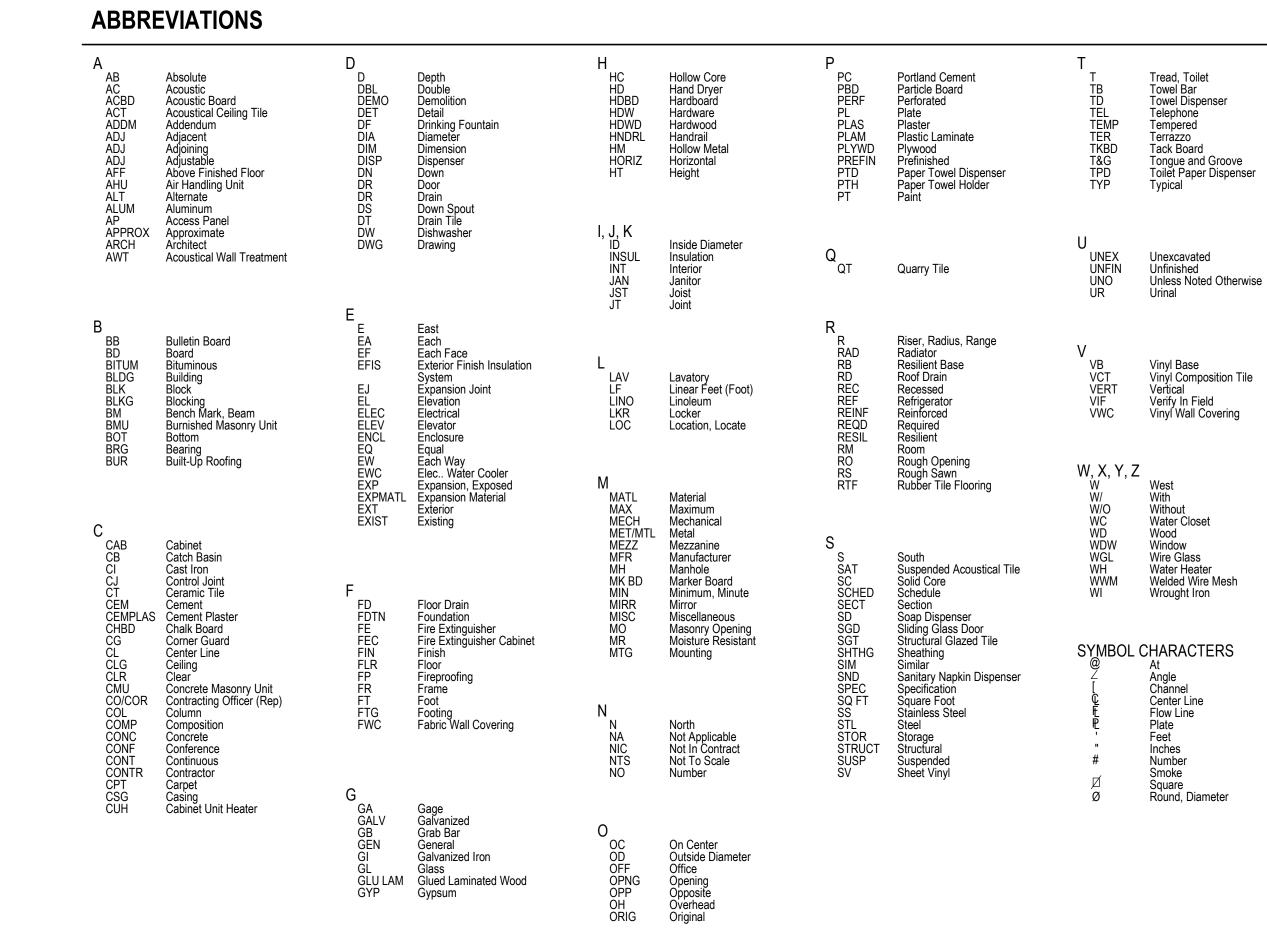
PROJ. NO: 190559

DRAWING NO:



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PROJECT GENERAL NOTES

- A. ALL WORK SHALL BE PERFORMED IN STRICT CONFORMANCE WITH LAWS, ORDINANCES, RULES, CODES AND REGULATIONS OF GOVERNMENT AUTHORITIES HAVING JURISDICTION.
- B. THE GENERAL CONTRACTOR, ASSOCIATED SUBCONTRACTORS, AND ALL OF THEIR SUBORDINATES (REGARDLESS OF THE TRADE INVOLVED) SHALL FAMILIARIZE THEMSELVES WITH ALL INFORMATION LOCATED WITHIN THE COMPLETE CONSTRUCTION DOCUMENT SET (ALL DRAWINGS AND SPECIFICATIONS) PRIOR TO CONSTRUCTION.
- C. CONTRACTOR(S) SHALL MAINTAIN CURRENT RECORD DRAWINGS ON SITE AT ALL TIMES.
- D. BEFORE COMMENCEMENT OF WORK. THE CONTRACTOR AND ASSOCIATED SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN IN THE CONTRACT DOCUMENTS. THIS INCLUDES REVIEW AND VERIFICATION THAT DIMENSIONS, LOCATIONS, AND REQUIREMENTS SHOWN ON THESE PLANS ARE ACCEPTABLE FOR INSTALLATION AND PROPER USE OF THEIR RESPECTIVE SYSTEMS, MATERIALS AND EQUIPMENT. ANY DEVIATIONS, DISCREPANCIES, AND/OR CONFLICTS SHALL BE REPORTED IN WRITING TO THE ARCHITECT.
- E. PRIOR TO COMMENCEMENT OF ANY OPERATION, EACH CONTRACTOR SHALL EXAMINE WORK PERFORMED BY OTHERS TO WHICH THEIR WORK ADJOINS OR IS APPLIED, AND REPORT TO THE ARCHITECT ANY CONDITIONS PREVENTING SATISFACTORY ACCOMPLISHMENT OF THEIR WORK. STARTING WORK OF ANY OPERATION SHALL INDICATE ACCEPTANCE OF CONDITIONS.
- F. DRAWINGS ARE NOT TO BE SCALED. DIMENSIONS GOVERN, LARGE SCALE DETAILS GOVERN OVER SMALL SCALE. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND FIELD CONDITIONS PRIOR TO COMMENCEMENT OF WORK, AND SHALL NOTIFY ARCHITECT IMMEDIATELY IF ANY CONFLICTS OR DISCREPANCIES OCCUR.
- G. MATERIALS AND NOTES COMMON TO SEVERAL DRAWINGS MAY BE NOTED ON ONLY ONE DRAWING. CONTRACTORS SHALL BE RESPONSIBLE FOR ENTIRE SET OF DOCUMENTS. REVIEW SPECIFICATIONS FOR INSTRUCTIONS NOT SHOWN ON DRAWINGS.
- H. REFERENCES SHOWN ON DRAWINGS DO NOT NECESSARILY INDICATE ALL LIKE CONDITIONS AND DO NOT LIMIT APPLICATION OF DRAWING OR DETAIL WHERE SPECIFIC DIMENSION, DETAILS, OR DESIGN INTENT CANNOT BE DETERMINED. CONSULT THE ARCHITECT PRIOR TO PROCEEDING WITH WORK
- I. CONTRACTOR SHALL ARRANGE TO ACCOMMODATE "NOT IN CONTRACT" WORK. WHEN INFORMATION IS INADEQUATE, REQUEST FURTHER INSTRUCTIONS BEFORE PROCEEDING.
- J. CONTRACTOR SHALL PERFORM HIGH QUALITY WORK. MATERIALS INSTALLED TO UNIFORM ACCURATE FIT SO THEY MEET WITH NEAT, STRAIGHT LINES, FREE OF OPEN SEAMS OR OVERLAPS. INSTALL EXPOSED MATERIALS APPROPRIATELY LEVEL, PLUMB AND AT ACCURATE RIGHT ANGLES, OR FLUSH WITH ADJOINING MATERIALS. WORK OF EACH TRADE SHALL MEET OR EXCEED ALL NATIONAL STANDARDS PUBLISHED BY THE TRADE.
- K. COORDINATE WITH ALL SUBCONTRACTORS, ANY REQUIRED OPENINGS, INCLUDING THOSE NOT INDICATED IN THE CONSTRUCTION DOCUMENT.
- L. WHERE ACCESS PANELS ARE REQUIRED FOR EQUIPMENT, UTILITIES, OR DEVICES, THOSE PANELS SHALL BE INSTALLED WHETHER OR NOT THEY ARE SPECIFICALLY SHOWN ON THE DRAWINGS. WHEN INSTALLED IN A FIRE RATED ASSEMBLY, THE ACCESS PANEL MUST BE FIRE RATED TO MATCH THE RATING OF THAT ASSEMBLY. VERIFY ALL PANEL LOCATIONS WITH ARCHITECT AND OWNER BEFORE INSTALLING.

REFERENCE INDICATORS

ROOM NAME	ROOM NAME/ NUMBER
(22)	KEYNOTES
Λ	REVISION NUMBER
DETAIL NUMBER G0.01 SHEET NUMBER	REFERENCE TAG
	SECTION REFERENCE
	BUILDING SECTION REFERENCE
A3.01	EXTERIOR ELEVATION REFERENCE
1 (A5.03) 4 (A5.11) 2 3	INTERIOR ELEVATION REFERENCE
	WINDOW/ LOUVER TAG
101A.1	DOOR TAG
	WALL/ PARTITION TYPE. SEE PARTITION TYPES FOR ADDITIONAL INFO
POINT REFERENCED ELEVATION	ELEVATION INDICATOR

- ACCUMULATE.
- FOUIPMENT.
- IMMEDIATE OCCUPANCY.
- CONTRACTOR.
- S. REQUIREMENTS AT NO ADDITIONAL COST.

- OWNER PER SPECIFICATION REQUIREMENTS.

MATERIALS

M. CONTRACTOR SHALL MAINTAIN CLEAN AND PRESENTABLE WORK AND STORAGE AREAS, AND SHALL NOT ALLOW ANY MATERIAL AS A RESULT OF DEMOLITION OR CONSTRUCTION TO

N. CONTRACTOR SHALL TAKE CARE TO PROTECT NEWLY INSTALLED MATERIALS.

0. PRIOR TO FINAL INSPECTION OF AND ACCEPTANCE OF THIS PROJECT, THE CONTRACTOR SHALL HAVE PROJECT AREA FREE FROM ALL CONSTRUCTION DEBRIS, SCRAPS, MATERIAL, AND

P. UPON COMPLETION OF WORK, CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS. ALL AREAS AFFECTED BY THE PROJECT SHALL BE DELIVERED CLEAN, WHOLE, TIGHT, AND FIT FOR

Q. THE CONTRACTOR SHALL ACCEPT THE PROJECT SITE AS IT EXISTS. ALL EXISTING DIMENSIONS AND EXISTING CONDITIONS WHETHER OR NOT SPECIFICALLY NOTED ON THE DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF ANY WORK. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY CONFLICTS OR DISCREPANCIES.

R. GENERAL CONTRACTOR SHALL TAKE PRECAUTIONS TO MAINTAIN & PROTECT EXISTING EQUIPMENT, SYSTEMS & FINISHES WHICH ARE TO REMAIN. ANY DAMAGES TO SUCH EQUIPMENT. SYSTEMS & FINISHES SHALL BE IMMEDIATELY REPAIRED IN A MANNER ACCEPTABLE TO THE OWNER'S REPRESENTATIVE. IF SATISFACTORY REPAIRS CANNOT BE MADE, CONTRACTOR SHALL REPLACE EQUIPMENT, SYSTEMS & FINISHES WITH LIKE NEW QUALITY ACCEPTABLE TO THE OWNER. ALL REPAIRS & REPLACEMENT COSTS SHALL BE THE RESPONSIBILITY OF THE

THE ARCHITECTURAL DRAWINGS SHOW PRINCIPAL AREAS AND LIMITS OF CONSTRUCTION WHERE WORK MUST BE ACCOMPLISHED UNDER THIS CONTRACT. INCIDENTAL WORK MAY BE NECESSARY IN AREAS NOT SHOWN ON ARCHITECTURAL DRAWINGS DUE TO CHANGES AFFECTING ELECTRICAL, MECHANICAL AND PLUMBING ALONG WITH OTHER SYSTEMS. THIS INCIDENTAL WORK SHALL BE PART OF THIS CONTRACT, AND ALL TRADES SHALL INSPECT THESE AREAS, ASCERTAIN WORK REQUIRED AND DO THE WORK IN ACCORDANCE WITH CONTRACT

T. ADJACENT AREAS WILL BE OCCUPIED FOR THE DURATION OF DEMOLITION AND CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING SAFE ACCESS AND EGRESS IN COMPLIANCE WITH ALL APPLICABLE CODES AND REGULATIONS. CONTRACTOR SHALL COORDINATE SCHEDULING OF DISRUPTIVE ACTIVITIES WITH THE OWNER.

U. CONTRACTORS TO PROVIDE TEMPORARY PARTITIONS AND DUST CONTROL AT ALL LOCATIONS WHERE WORK OCCURS IN CORRIDORS AND/OR CANNOT BE CONTAINED WITHIN ROOMS.

V. CONTRACTOR SHALL PATCH AND REPAIR ANY AND ALL FLOORS, WALLS, BASE, CEILING, ETC. IN A WORKMANSHIP-LIKE MANNER TO MATCH THE SURROUNDING SURFACE AREAS WHERE THERE IS DAMAGE BECAUSE OF REMOVAL OR REPLACEMENT OF EXISTING CONSTRUCTION.

W. OWNER'S LIFE SAFETY AND INFORMATION TECHNOLOGY SYSTEMS SHALL REMAIN FUNCTIONAL THROUGHOUT THE DURATION OF DEMOLITION AND CONSTRUCTION ACTIVITIES. SERVICES TO ADJACENT AREAS SHALL NOT BE DISRUPTED UNLESS COORDINATED IN ADVANCE WITH THE



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> THIS SQUARE APPEARS 1/2"x1/2" ON FULL SIZE SHEETS

10/24/2022 DATE NO

DATE

NO

Signature:

100% DOCUMENTS ISSUED FOR

FACE BRICK

CAST-IN-PLACE CONCRETE

CONCRETE BLOCK

CONCRETE BLOCK (LARGE SCALE)

WOOD STUD PARTITION

METAL STUD PARTITION

BATT INSULATION

EXTERIOR RIGID INSULATION

PLYWOOD

WOOD BLOCKING

FINISH WOOD

GYPSUM BOARD OR PLASTER

METAL

STONE

EXISTING

I HEREBY CERTIFY that this plan, specification o report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota

REVISION

Banduhsen

Typed or Printed Name: BRANDEE NESS LIAN Date: 10/24/2022 Reg. No.: 42859

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PROJECT NAME: **OPS CENTER OFFICE** AND TOILET REMODEL 2402 WEST MICHIGAN ST. DULUTH, MINNESOTA 55806

DRAWING TITLE:

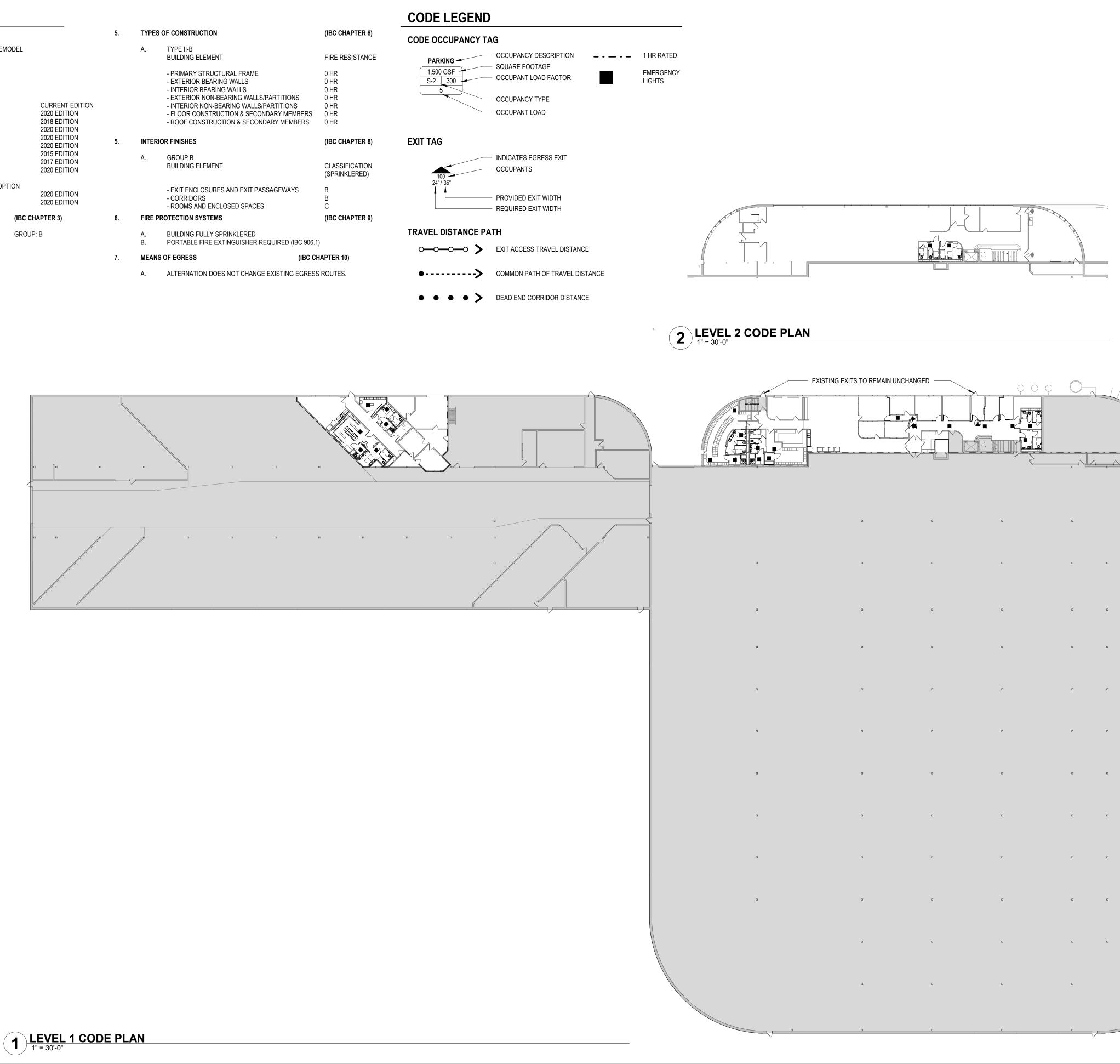
GENERAL NOTES, ABBREVIATIONS, ANNOTATIONS

DRAWN BY: CMK CHECKED BY: BNL PROJ. NO: 190559 DRAWING NO:



CODE ANALYSIS

1.	GENERAL INFO	RMATION			5.	TYPE	S OF CONSTRUCTION	(IBC CHAPT
	A. PROJECT N B. PROJECT L		N STREET			A.	TYPE II-B BUILDING ELEMENT	FIRE RESIS
2.	B. MINN			CURRENT EDITION 2020 EDITION 2018 EDITION			 PRIMARY STRUCTURAL FRAME EXTERIOR BEARING WALLS INTERIOR BEARING WALLS EXTERIOR NON-BEARING WALLS/PARTITIONS INTERIOR NON-BEARING WALLS/PARTITIONS FLOOR CONSTRUCTION & SECONDARY MEMBI ROOF CONSTRUCTION & SECONDARY MEMBI 	
	D. INT'L E. MINN E. MINN	FIRE CODE (W/ AMENDMENTS) ESOTA STATE FIRE CODE ESOTA MECHANICAL & FUEL GAS	,	2020 EDITION 2020 EDITION 2020 EDITION	5.	INTER	RIOR FINISHES	(IBC CHAPT
	G. NATIO H. MINN	ESOTA PLUMBING CODE DNAL ELECTRICAL CODE (NEC) ESOTA COMMERCIAL ENERGY CO AE STANDARD 90.1 – 2016	DE	2015 EDITION 2017 EDITION 2020 EDITION		A.	GROUP B BUILDING ELEMENT	CLASSIFICA (SPRINKLEI
		5.5 PRESCRIPTIVE BUILDING E ESOTA ACCESSIBILITY CODE ESOTA BUILDING CONSERVATION		2020 EDITION 2020 EDITION			- EXIT ENCLOSURES AND EXIT PASSAGEWAYS - CORRIDORS - ROOMS AND ENCLOSED SPACES	B B C
3.	USE AND OCC	JPANCY CLASSIFICATION	(IBC C	HAPTER 3)	6.	FIRE I	PROTECTION SYSTEMS	(IBC CHAPT
	A. BOC	CUPANCY (SECTION 304)	GROU	Р: В		А. В.	BUILDING FULLY SPRINKLERED PORTABLE FIRE EXTINGUISHER REQUIRED (IBC	906.1)
4.		(IEBC CHAPTER 6) E: LEVEL 2 ALTERATION			7.	MEAN	IS OF EGRESS (I	IBC CHAPTER 10)
						A.	AI TERNATION DOES NOT CHANGE EXISTING FO	GRESS ROUTES.



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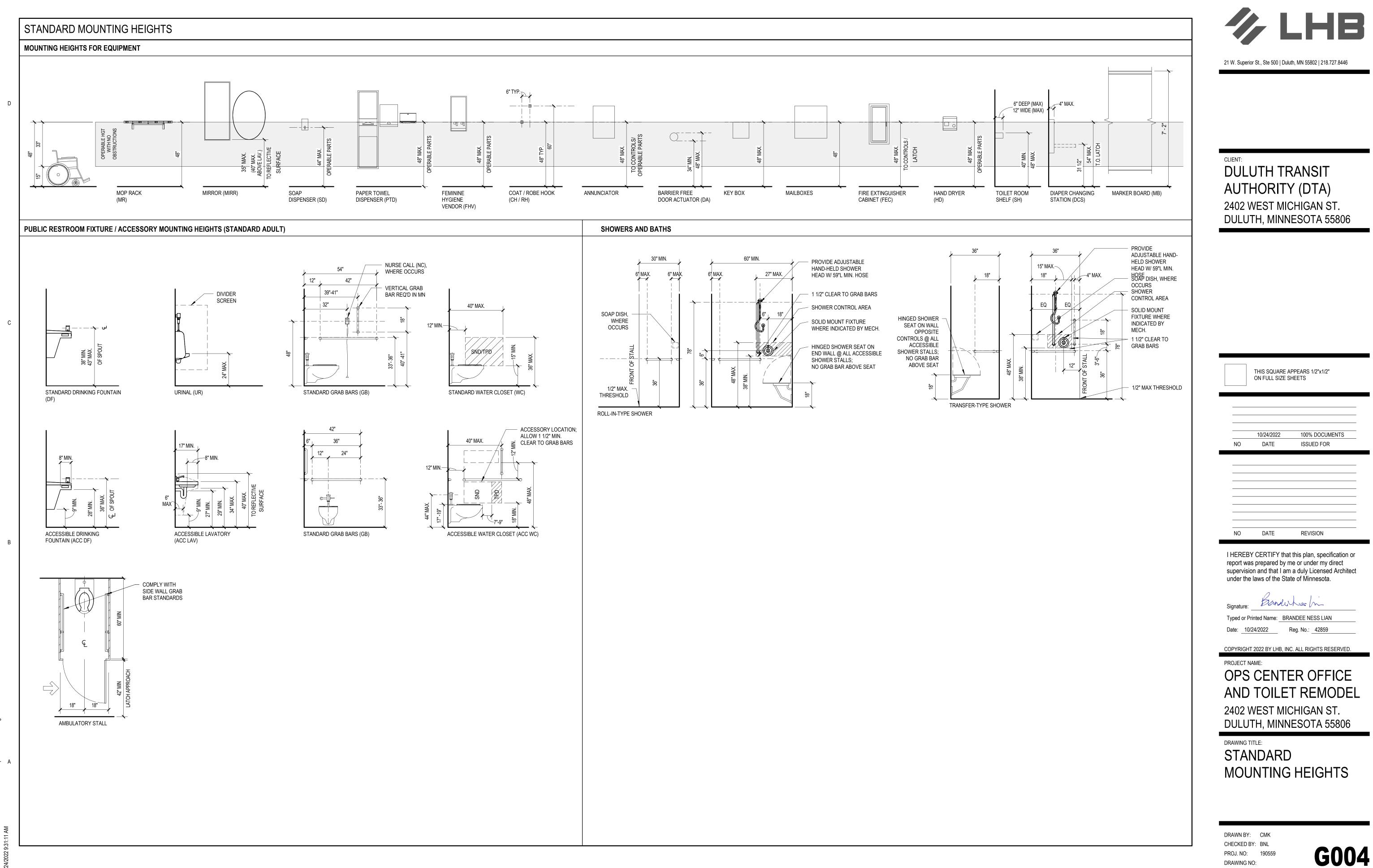


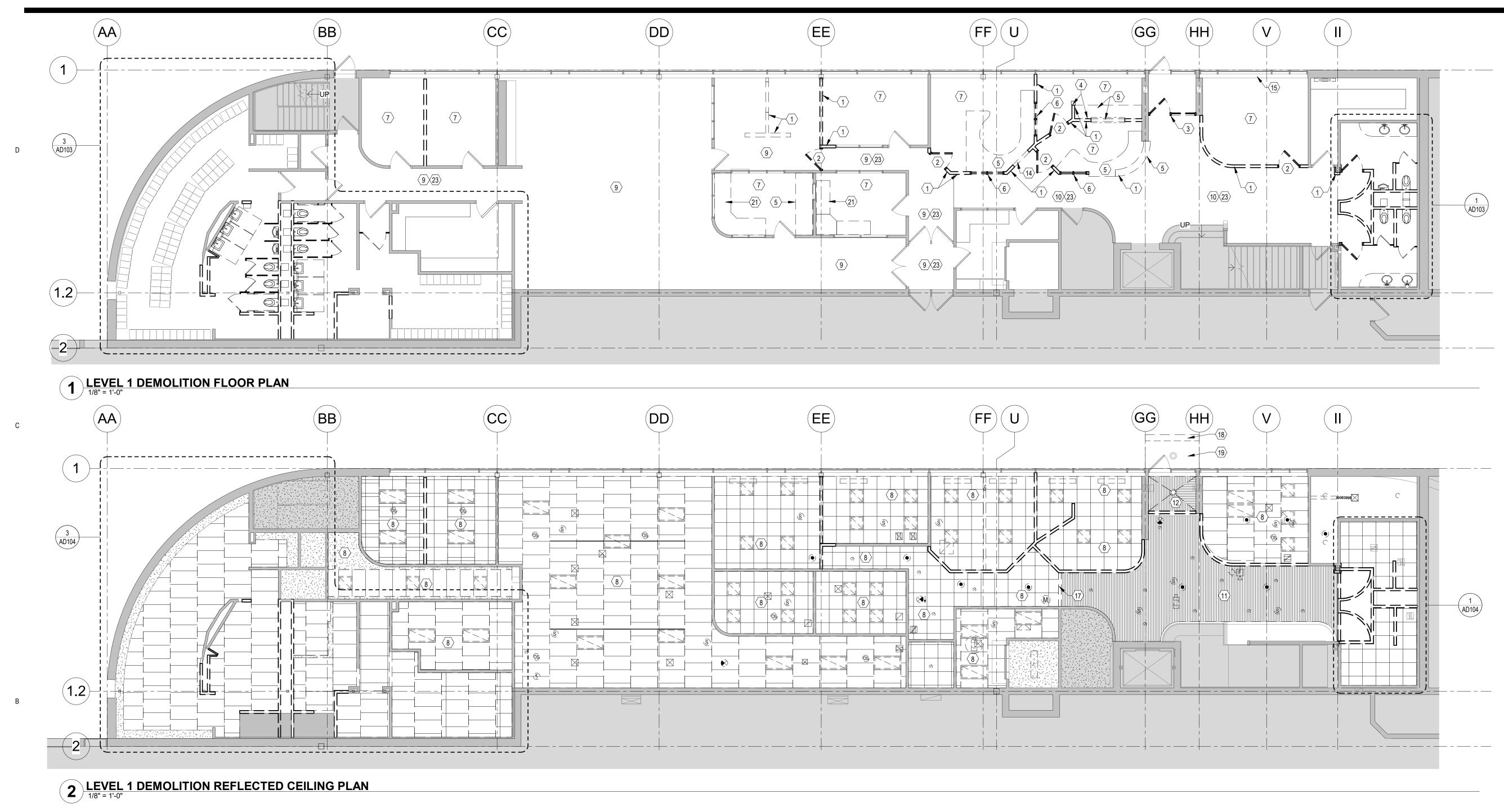
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		HIS SQUARE APP			
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_	NO	10/24/2022 DATE	100% DOCUMENTS		
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rep sup	oort was p pervision	prepared by me	is plan, specification or or under my direct duly Licensed Architect of Minnesota.		
•	nature:	Banduk ed Name: BRANI			
	e: <u>10/24</u>		j. No.: <u>42859</u>		
	YRIGHT 2		ALL RIGHTS RESERVED.		
-			R OFFICE		
Al	AND TOILET REMODEL				
			HGAN ST. SOTA 55806		
С		E PLAN ARY	AND		







- A. THE CONTRACTOR SHALL ACCEPT THE PROJECT AS IT EXISTS. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND NOTIFY ARCHITECT OF ANY CONFLICT AND/OR DISCREPANCIES PRIOR TO COMMENCING WORK.
- B. DEMOLITION DRAWINGS INDICATE GENERAL SCOPE OF WORK ONLY. NOT ALL DEMOLITION WORK IS SPECIFICALLY INDICATED. THE NOTATION 'NO WORK' INDICATES THAT SUBSTANTIAL DEMOLITION ACTIVITIES ARE NOT ANTICIPATED IN THE DESIGNATED ROOM OR AREA. INCIDENTAL MODIFICATION OR DEMOLITION SHALL BE AS NEEDED TO ACCOMODATE THE NEW WORK AS DETAILED.
- C. AT ALL TIMES DURING DEMOLITION AND CONSTRUCTION, CONTRACTOR MUST MAINTAIN DIRECT ACCESS TO BUILDING EGRESS STAIRS AND EXITS AND MAINTAIN REQUIRED EGRESS PATHS FOR ALL BUILDING OCCUPANTS.
- D. ADJACENT AREAS OF THE BUILDING WILL BE OCCUPIED FOR THE DURATION OF CONSTRUCTION. MAINTAIN ACCESS TO THESE AREAS AT ALL TIMES AND COORDINATE SCHEDULING OF DISRUPTIVE WORK WITH OWNER.
- ACCESS ITEMS INDICATED FOR DEMOLITION IN MANNER DESIGNED TO MINIMIZE IMPACT ON EXISTING WORK INDICATED TO REMAIN. WHENEVER POSSIBLE PERFORM DEMOLITION ACTIVITIES FROM AREAS TO BE CONCEALED BY NEW WORK.
- WHERE AREAS OR ITEMS THAT ARE INDICATED TO BE REMOVED ABUT OR ADJOIN EXISTING CONSTRUCTION INDICATED TO REMAIN, SAWCUT OR OTHERWISE REMOVE TO PROVIDE A CLEAN EDGE.
- G. UNLESS NOTED OTHERWISE, WITHIN LIMITS OF CONSTRUCTION, EXISTING STRUCTURAL ELEMENTS TO REMAIN.

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- H. WHERE REQUIRED FOR SCHEDULED WORK, REMOVE ALL EXISTING FLOOR AND BASE FINISHES INCLUDING MASTICS AND/OR BONDING AGENTS, ALL CEILING SYSTEMS INCLUDING TRIM/ACCESSORIES ON WALLS. REMOVE ANY APPLIED FINISHES. PREPARE ALL SURFACES AS REQUIRED FOR NEW CONSTRUCTION AND/OR FINISHES.
- WHERE WALLS OR PARTITIONS ARE INDICATED TO BE REMOVED, REMOVE ENTIRE WALL OR PARTITION INCLUDING ALL ELEMENTS IN OR ON THE WALL WHICH MAY NOT BE SPECIFICALLY INDITICATED, UNLESS NOTED OTHERWISE. REMOVE ALL FRAMING AND SUPPORT COMPONENTS ABOVE CEILING.
- AFTER WALLS, CEILINGS, EQUIPMENT, OR OTHER ELEMENTS ARE REMOVED ALL FLOORS, WALLS, AND CEILINGS ARE TO BE PREPARED TO RECEIVE NEW FINISHES AS REQUIRED IN AREA OF WORK. COORDINATE WITH NEW WORK.
- K. AFTER DEMOLITION ALL RESIDUAL MARKINGS ON EXISTING FLOORING, WALLS AND CEILINGS THAT ARE TO REMAIN SHALL BE REPAIRED TO MATCH ADJACENT SURFACES.
- L. DO NOT DISRUPT UTILITY, SERVICE, SECURITY, FIRE PROTECTION, FIRE ALARM, POWER OR HVAC TO ADJACENT SPACE AND FACILITIES WITHOUT PRIOR APPROVAL BY THE OWNER.
- M. NO WORK IN THE SHADED AREAS.

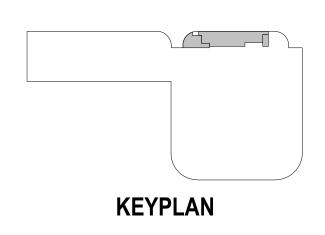
(#) KEYED SHEET NOTES

- 1 REMOVE GYPSUM BOARD WALL.
- 2 REMOVE DOOR AND FRAME.
- 3 REMOVE DOOR, FRAME AND GLAZING.
- 4 REMOVE SOLID WOOD TRIM.
- 5 REMOVE PLASTIC LAMINATE CASEWORK.
- 6 REMOVE HOLLOW METAL WINDOW FRAMES AND GLAZING.
- 7 REMOVE CARPET FLOORING.
- 8 REMOVE ACOUSTIC CEILING SYSTEM.
- 9 REMOVE VCT FLOORING AND MECHANICALLY PREP FOR NEW FLOOR FINISH ...
- 10 REMOVE CERAMIC OR CLAY TILE FLOORING AND MECHANICALLY PREP SLAB FOR NEW FLOOR FINISH.
- 11 REMOVE LINEAR CEILING SYSTEM.
- 12 REMOVE DECORATIVE WOOD CEILING SYSTEM.
- 13 REMOVE ALUMINUM STOREFRONT FRAMES AND GLAZING.
- 14 REMOVE COILING SHUTTER AND PLASTIC LAMINATE COUNTER AT SERVICE WINDOW.
- 15 REMOVE WINDOW TREATMENT. REMOVE PLASTIC LAMINATE WINDOW SILL AND RADIATION COVER, AND ALL ASSOCIATED FRAMING AND BLOCKING.



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THIS SQUARE APPEARS 1/2"x1/2"

ON FULL SIZE SHEETS

10/24/2022 DATE

100% DOCUMENTS ISSUED FOR

DATE REVISION NO

I HEREBY CERTIFY that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.

ennuss m

Typed or Printed Name: BRANDEE NESS LIAM Date: 10/24/2022 Reg. No.: 42859

Signature

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PROJECT NAME: OPS CENTER OFFICE AND TOILET REMODEL 2402 WEST MICHIGAN ST. DULUTH, MINNESOTA 55806

DRAWING TITLE: OFFICE DEMOLITION PLANS

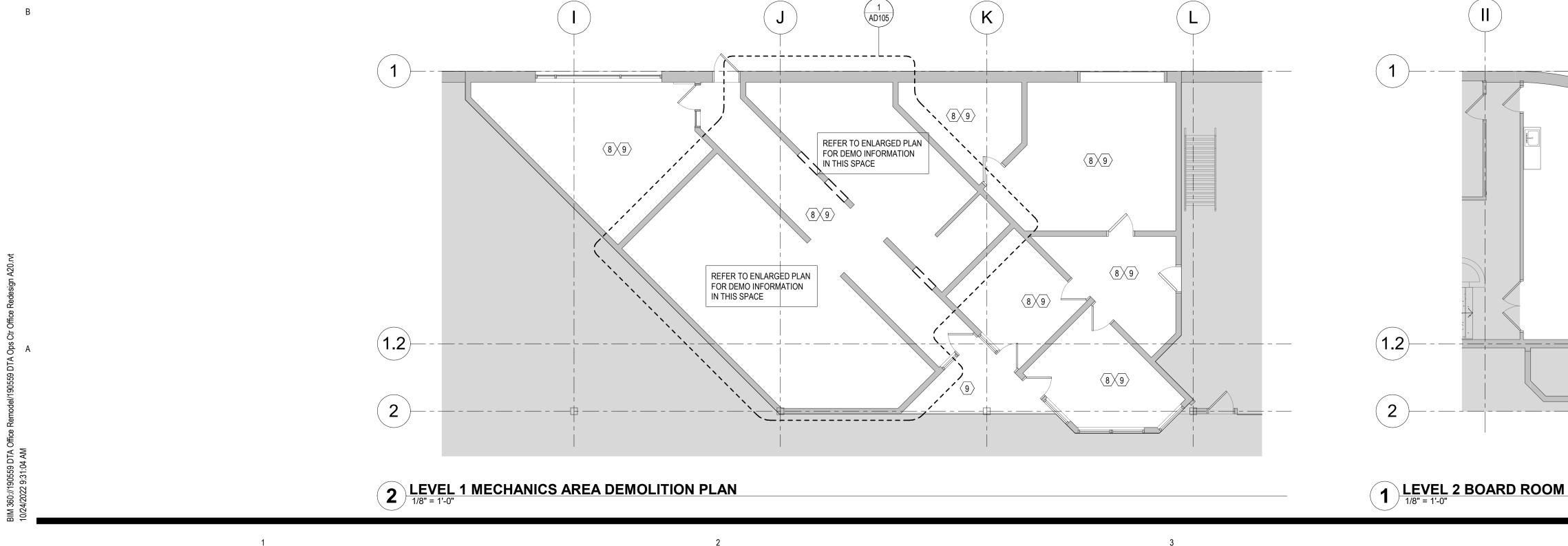


- 16 REMOVE WOOD SHELVING NECESSARY TO BUILD NEW WALL. MODIFY REMAINING SHELVING AT NEWLY EXPOSED ENDS TO MATCH EXISTING CONDITIONS OF SHELVING TO REMAIN AND SUPPORT STRENGTH.
- 17 REMOVE GYPSUM BOARD BULKHEAD AND SUPPORT STRUCTURE.
- 18 REMOVE CONCRETE BEAM
- 19 REMOVE PORTION OF EXISTING CANTILEVERED CONCRETE ROOF SLAB
- 20 SAWCUT EXISTING CONCRETE ROOF SLAB AT FACE OF BUILDING. ALLOW ROOM TO PATCH EXTERIOR COATING.
- 21 REMOVE FURNITURE SYSTEM. 22 REMOVE GYPSUM BOARD CEILING, SOFFITS AND SUPPORT
- STRUCTURE. 23 REMOVE WALLCOVERING ON WALLS TO REMAIN AND PREP FOR NEW PAINTED FINISH.
- 24 REMOVE CEILING TILE FOR REPLACMENT. EXISTING GRID TO REMAIN.
- 25 REMOVE DAMAGED GYPSUM BOARD WITH WALLCOVERING IN FULL PANELS TO WOOD TRIM HEIGHT AND WIDTH AS INDICATED ON PLAN.

GENERAL DEMOLITION NOTES

- A. THE CONTRACTOR SHALL ACCEPT THE PROJECT SHALL VERIFY ALL EXISTING CONDITIONS AND N CONFLICT AND/OR DISCREPANCIES PRIOR TO CO
- B. DEMOLITION DRAWINGS INDICATE GENERAL SCOPE OF WORK ONLY. NOT ALL DEMOLITION WORK IS SPECIFICALLY INDICATED. THE NOTATION 'NO WORK' INDICATES THAT SUBSTANTIAL DEMOLITION ACTIVITIES ARE NOT ANTICIPATED IN THE DESIGNATED ROOM OR AREA. INCIDENTAL MODIFICATION OR DEMOLITION SHALL BE AS NEEDED TO ACCOMODATE THE NEW WORK AS DETAILED.
- C. AT ALL TIMES DURING DEMOLITION AND CONSTRUCTION. CONTRACTOR MUST J. AFTER WALLS, CEILINGS, EQUIPMENT, OR OTHER ELEMENTS ARE REMOVED ALL MAINTAIN DIRECT ACCESS TO BUILDING EGRESS STAIRS AND EXITS AND MAINTAIN FLOORS, WALLS, AND CEILINGS ARE TO BE PREPARED TO RECEIVE NEW FINISHES REQUIRED EGRESS PATHS FOR ALL BUILDING OCCUPANTS. AS REQUIRED IN AREA OF WORK. COORDINATE WITH NEW WORK.
- D. ADJACENT AREAS OF THE BUILDING WILL BE OCCUPIED FOR THE DURATION OF CONSTRUCTION. MAINTAIN ACCESS TO THESE AREAS AT ALL TIMES AND K. AFTER DEMOLITION ALL RESIDUAL MARKINGS ON EXISTING FLOORING, WALLS AND COORDINATE SCHEDULING OF DISRUPTIVE WORK WITH OWNER. CEILINGS THAT ARE TO REMAIN SHALL BE REPAIRED TO MATCH ADJACENT SURFACES.
- E. ACCESS ITEMS INDICATED FOR DEMOLITION IN MANNER DESIGNED TO MINIMIZE IMPACT ON EXISTING WORK INDICATED TO REMAIN. WHENEVER POSSIBLE DO NOT DISRUPT UTILITY, SERVICE, SECURITY, FIRE PROTECTION, FIRE ALARM, PERFORM DEMOLITION ACTIVITIES FROM AREAS TO BE CONCEALED BY NEW WORK. POWER OR HVAC TO ADJACENT SPACE AND FACILITIES WITHOUT PRIOR APPROVAL BY THE OWNER.
- F. WHERE AREAS OR ITEMS THAT ARE INDICATED TO BE REMOVED ABUT OR ADJOIN EXISTING CONSTRUCTION INDICATED TO REMAIN, SAWCUT OR OTHERWISE REMOVE TO PROVIDE A CLEAN EDGE.
- G. UNLESS NOTED OTHERWISE, WITHIN LIMITS OF CONSTRUCTION, EXISTING STRUCTURAL ELEMENTS TO REMAIN.

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T AS IT EXISTS. CONTRACTOR	
NOTIFY ARCHITECT OF ANY	
OMMENCING WORK.	

- H. WHERE REQUIRED FOR SCHEDULED WORK, REMOVE ALL EXISTING FLOOR AND BASE FINISHES INCLUDING MASTICS AND/OR BONDING AGENTS, ALL CEILING SYSTEMS INCLUDING TRIM/ACCESSORIES ON WALLS. REMOVE ANY APPLIED FINISHES. PREPARE ALL SURFACES AS REQUIRED FOR NEW CONSTRUCTION AND/OR FINISHES.
- WHERE WALLS OR PARTITIONS ARE INDICATED TO BE REMOVED, REMOVE ENTIRE WALL OR PARTITION INCLUDING ALL ELEMENTS IN OR ON THE WALL WHICH MAY NOT BE SPECIFICALLY INDITICATED, UNLESS NOTED OTHERWISE. REMOVE ALL FRAMING AND SUPPORT COMPONENTS ABOVE CEILING.
- M. NO WORK IN THE SHADED AREAS.

(#) KEYED SHEET NOTES

- 1 REMOVE GYPSUM BOARD WALL.
- 2 REMOVE DOOR AND FRAME.
- 3 REMOVE DOOR, FRAME AND GLAZING.
- 4 REMOVE SOLID WOOD TRIM.
- 5 REMOVE PLASTIC LAMINATE CASEWORK.
- 6 REMOVE HOLLOW METAL WINDOW FRAMES AND GLAZING.
- 7 REMOVE CARPET FLOORING.
- 8 REMOVE ACOUSTIC CEILING SYSTEM.
- 9 REMOVE VCT FLOORING AND MECHANICALLY PREP FOR NEW FLOOR FINISH ..
- 10 REMOVE CERAMIC OR CLAY TILE FLOORING AND MECHANICALLY PREP SLAB FOR NEW FLOOR FINISH.
- 11 REMOVE LINEAR CEILING SYSTEM.
- 12 REMOVE DECORATIVE WOOD CEILING SYSTEM.
- 13 REMOVE ALUMINUM STOREFRONT FRAMES AND GLAZING. 14 REMOVE COILING SHUTTER AND PLASTIC LAMINATE COUNTER AT SERVICE WINDOW.
- 15 REMOVE WINDOW TREATMENT. REMOVE PLASTIC LAMINATE WINDOW SILL AND RADIATION COVER, AND ALL ASSOCIATED FRAMING AND BLOCKING.

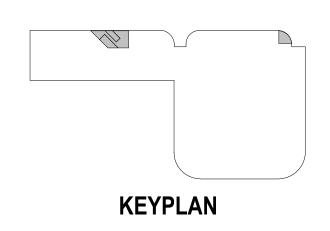
1 LEVEL 2 BOARD ROOM DEMOLITION PLAN

- 16 REMOVE WOOD SHELVING NECESSARY TO BUILD NEW WALL. MODIFY REMAINING SHELVING AT NEWLY EXPOSED ENDS TO MATCH EXISTING CONDITIONS OF SHELVING TO REMAIN AND SUPPORT STRENGTH.
- 17 REMOVE GYPSUM BOARD BULKHEAD AND SUPPORT STRUCTURE.
- 18 REMOVE CONCRETE BEAM
- 19 REMOVE PORTION OF EXISTING CANTILEVERED CONCRETE ROOF SLAB
- 20 SAWCUT EXISTING CONCRETE ROOF SLAB AT FACE OF BUILDING, ALLOW ROOM TO PATCH EXTERIOR COATING.
- 21 REMOVE FURNITURE SYSTEM.
- 22 REMOVE GYPSUM BOARD CEILING, SOFFITS AND SUPPORT STRUCTURE.
- 23 REMOVE WALLCOVERING ON WALLS TO REMAIN AND PREP FOR NEW PAINTED FINISH.
- 24 REMOVE CEILING TILE FOR REPLACMENT. EXISTING GRID TO REMAIN.
- 25 REMOVE DAMAGED GYPSUM BOARD WITH WALLCOVERING IN FULL PANELS TO WOOD TRIM HEIGHT AND WIDTH AS INDICATED ON PLAN.



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CLIENT: **DULUTH TRANSIT** AUTHORITY (DTA) 2402 WEST MICHIGAN ST. DULUTH, MINNESOTA 55806



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10/24/2022

DATE NO

DATE

NO

100% DOCUMENTS ISSUED FOR

REVISION

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I HEREBY CERTIFY that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota. Pandelles In Signature: Typed or Printed Name: BRANDEE NESS LIA Date: 10/24/2022 Reg. No.: 42859

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PROJECT NAME: **OPS CENTER OFFICE** AND TOILET REMODEL 2402 WEST MICHIGAN ST. DULUTH, MINNESOTA 55806

DRAWING TITLE:

OFFICE DEMOLITION PLANS



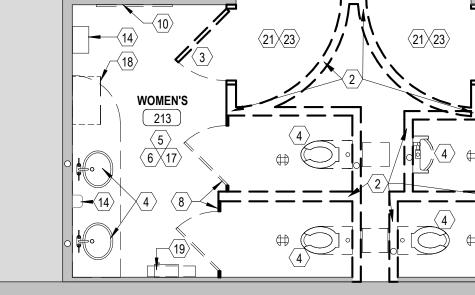
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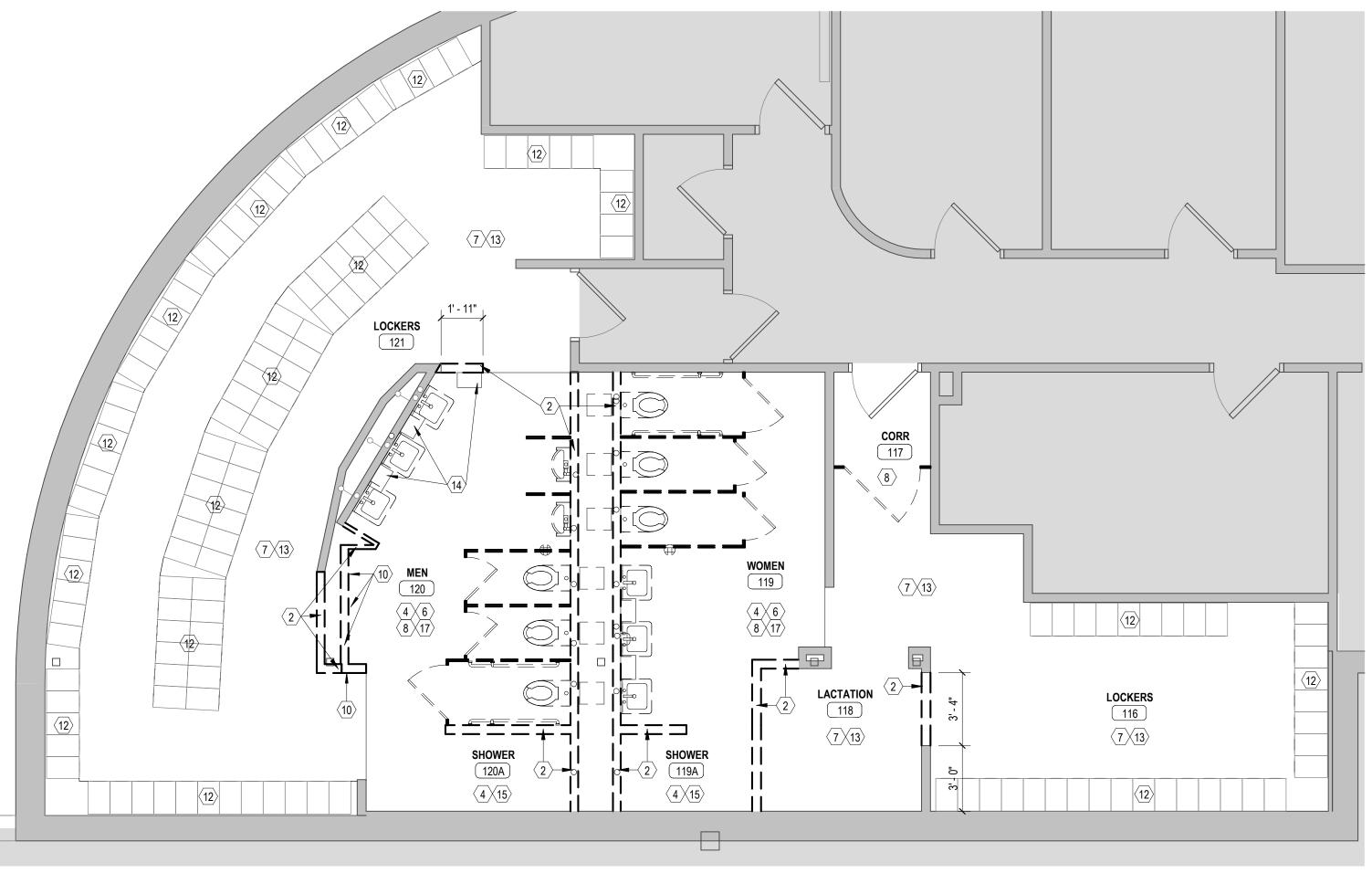
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2 LEVEL 2 OFFICE TOILET ROOMS DEMOLITION PLAN



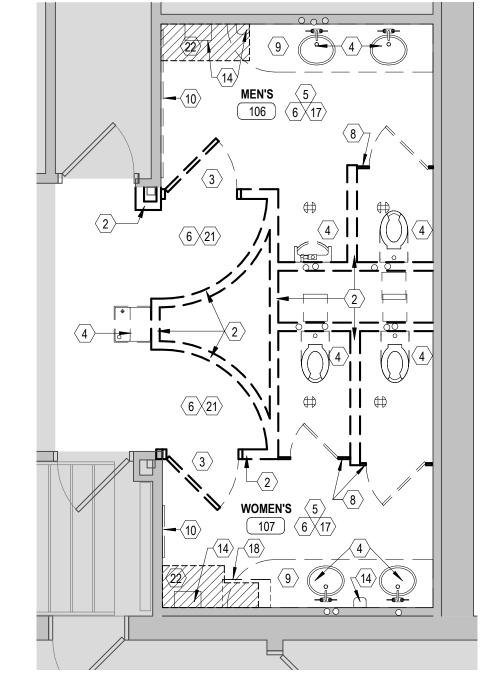
3 DRIVERS TOILET AND LOCKER ROOM DEMOLITION PLAN



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1 LEVEL 1 OFFICE TOILET ROOMS DEMOLITION PLAN

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22	SAW CUT
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24	REMOVE

FINISH.

L DEMOLITION NOTES

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WORK IN SHADED AREAS

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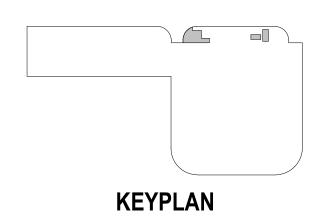
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- E STUD WALL
- FRAME, DOOR AND HARDWARE
- EALL PLUMBING FIXTURES
- E SUSPENDED CEILING IN ITS ENTIRETY
- FLOOR TILE AND COVE BASE TILE. PREP SLAB FOR NEW FLOOR
- RESILIENT FLOOR TILE
- EALL TOILET PARTITIONS, GRAB BARS, AND ACCESSORIES
- COUNTERTOP
- E MIRRORS
- AND SALVAGE LOCKERS
- G LOCKERS TO REMAIN
- E RESILIENT BASE
- SOAP AND/ OR PAPER TOWEL DISPENSERS
- SHOWER ACCESSORIES, SURROUND AND CURTAIN
- MASONRY FOR NEW OPENING
- E WALL TILE
- WALL MOUNTED SHELF OR CABINET
- SANITARY NAPKIN DISPENSER
- GYP BD BULKHEAD
- GYP BD OR PLASTER SOFFIT
- SLAB OR PLUMBING WORK. REFER TO PLUMBING SHEETS
- CARPET FLOORING. PROTECT CARPET TO REMAIN OUTSIDE OMS.
- 24 REMOVE STAINLESS STEEL WAINSCOT PANEL
- 25 REMOVE STAINLESS STEEL END WALL CORNER GUARD
- 26 REMOVE VCT FLOORING AND WALL BASE. PREP SLAB FOR NEW FLOOR



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10/24/2022 DATE NO

100% DOCUMENTS ISSUED FOR

NO DATE REVISION

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Plander Jose m

Typed or Printed Name: BRANDEE NESS LIAN Date: 10/24/2022 Reg. No.: 42859

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PROJECT NAME: **OPS CENTER OFFICE** AND TOILET REMODEL 2402 WEST MICHIGAN ST. DULUTH, MINNESOTA 55806

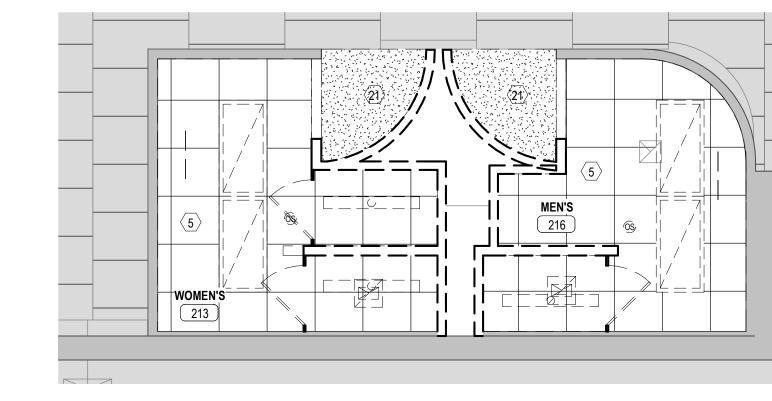
DRAWING TITLE:

Signature:

TOILET AND LOCKER ROOM DEMOLITION PLANS

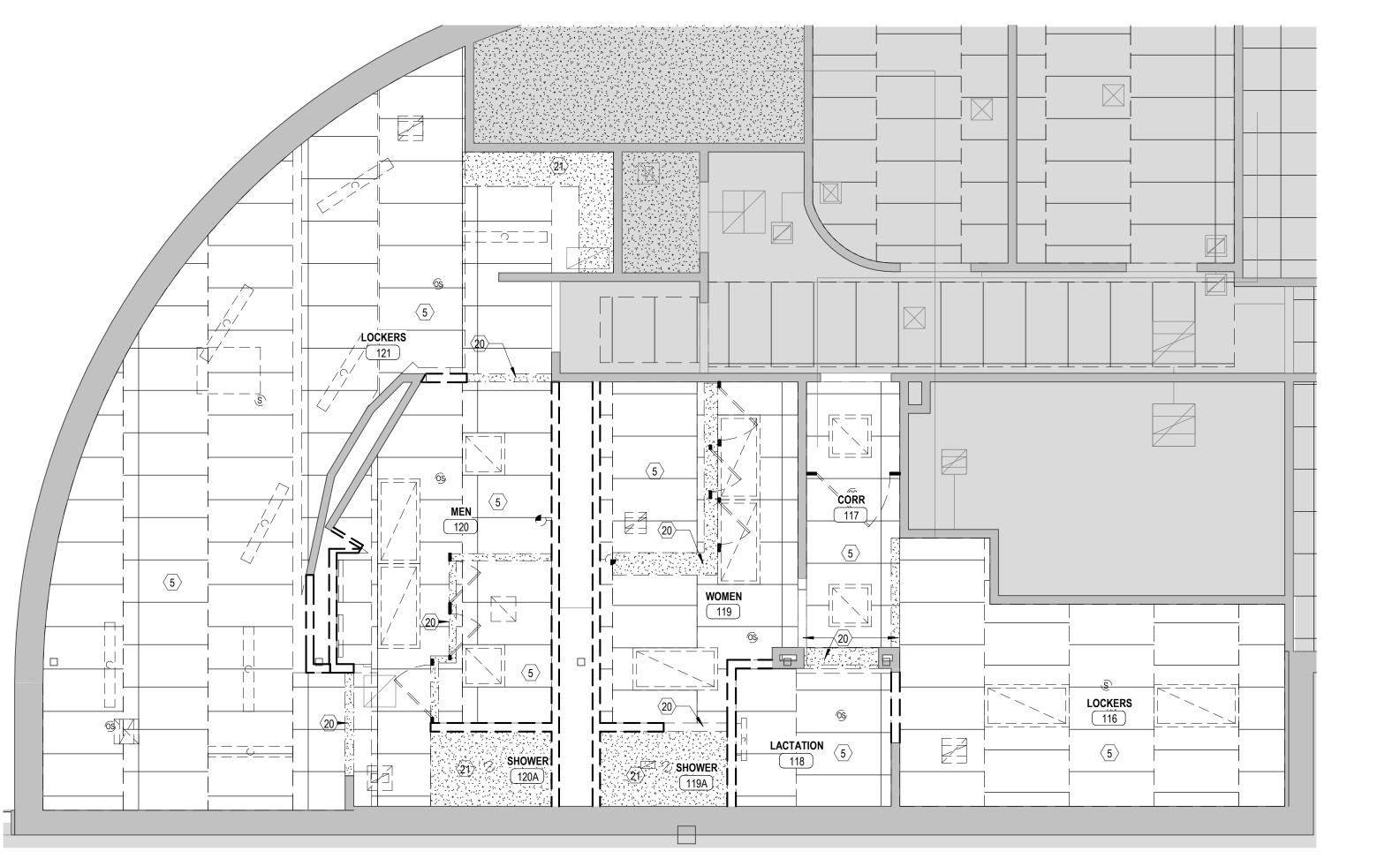




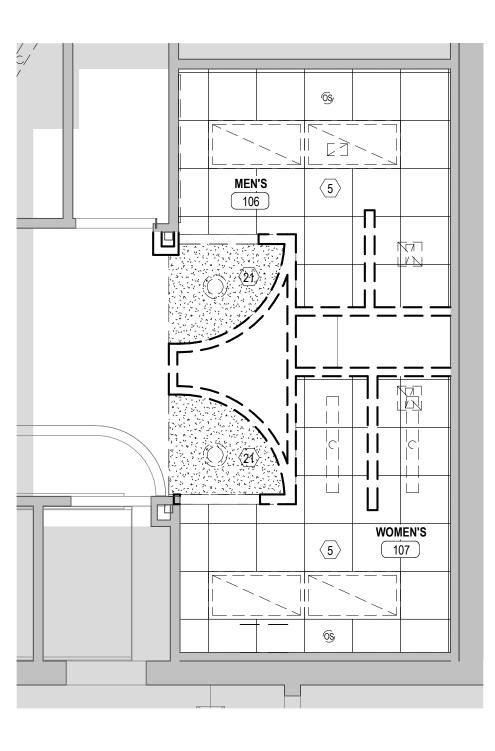


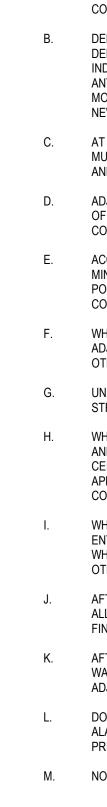


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(#) KEYED SHEET NOTES

- 2 REMOVE STUD WALL FINISH. 9 REMOVE COUNTERTOP 10 REMOVE MIRRORS 12 EXISTING LOCKERS TO REMAIN 13 REMOVE RESILIENT BASE
- 17 REMOVE WALL TILE 18 REMOVE WALL MOUNTED SHELF OR CABINET
- 19 REMOVE SANITARY NAPKIN DISPENSER
- 20 REMOVE GYP BD BULKHEAD
- 21 REMOVE GYP BD OR PLASTER SOFFIT
- 23 REMOVE CARPET FLOORING. PROTECT CARPET TO REMAIN OUTSIDE
- RESTROOMS.
- 25 REMOVE STAINLESS STEEL END WALL CORNER GUARD
- FINISH.

1 LEVEL 1 ADMIN TOILET ROOMS DEMOLITION REFLECTED CEILING PLAN

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1 REMOVE MASONRY WALL

- 3 REMOVE FRAME, DOOR AND HARDWARE
- 4 REMOVE ALL PLUMBING FIXTURES
- 5 REMOVE SUSPENDED CEILING IN ITS ENTIRETY

6 REMOVE FLOOR TILE AND COVE BASE TILE. PREP SLAB FOR NEW FLOOR

7 REMOVE RESILIENT FLOOR TILE

- 8 REMOVE ALL TOILET PARTITIONS, GRAB BARS, AND ACCESSORIES
- 11 REMOVE AND SALVAGE LOCKERS
- 14 REMOVE SOAP AND/ OR PAPER TOWEL DISPENSERS
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- 16 SAW CUT MASONRY FOR NEW OPENING
- 22 SAW CUT SLAB OR PLUMBING WORK. REFER TO PLUMBING SHEETS

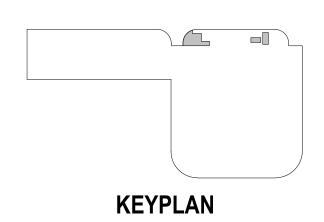
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CLIENT: **DULUTH TRANSIT** AUTHORITY (DTA) 2402 WEST MICHIGAN ST. DULUTH, MINNESOTA 55806



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Dandelless m

Typed or Printed Name: BRANDEE NESS LIAM Date: 10/24/2022 Reg. No.: 42859

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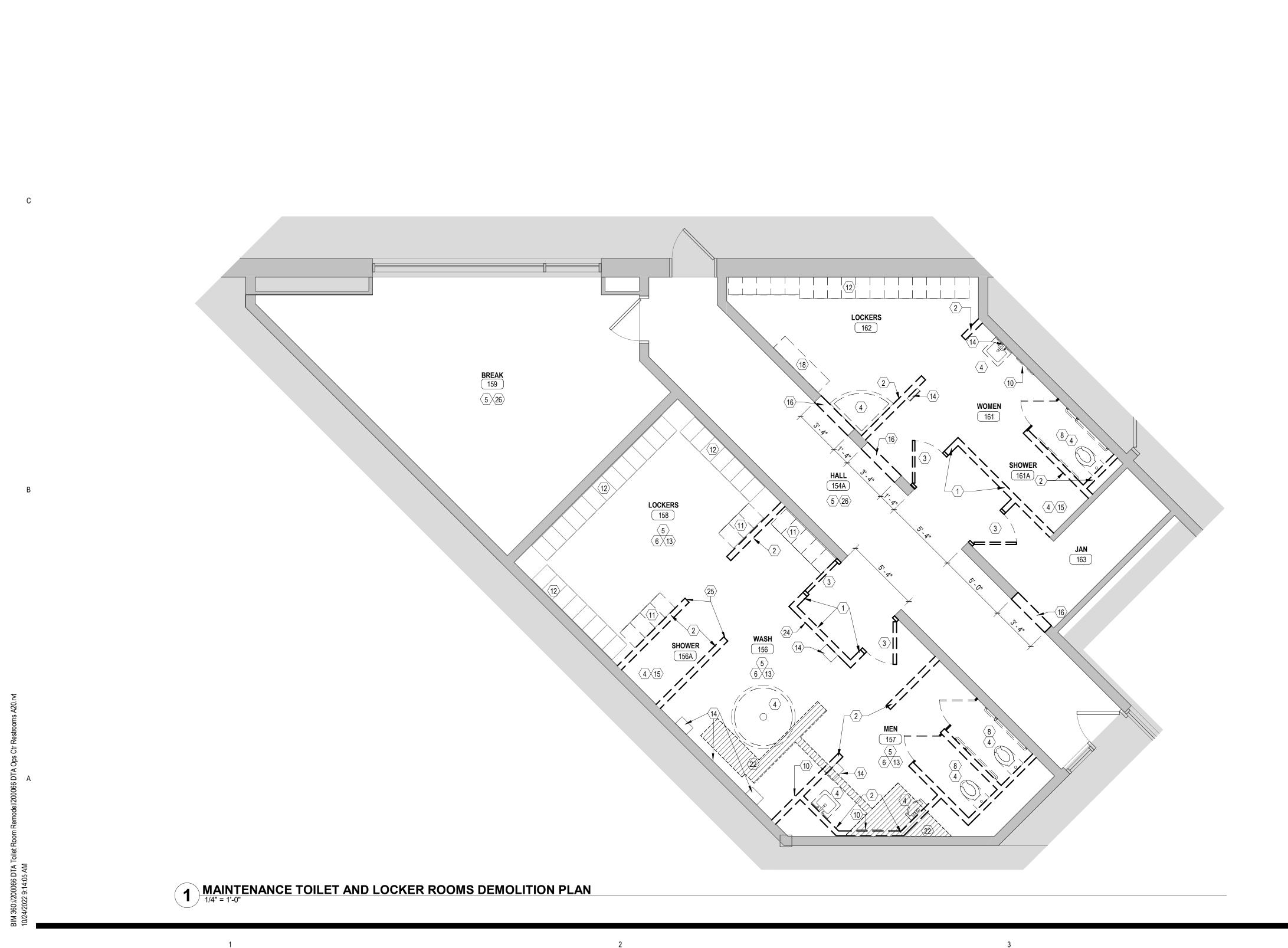
PROJECT NAME: **OPS CENTER OFFICE** AND TOILET REMODEL 2402 WEST MICHIGAN ST. DULUTH, MINNESOTA 55806

DRAWING TITLE:

Signature:

TOILET AND LOCKER ROOM DEMOLITION REFLECTED CEILING PLANS





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GENERAL DEMOLITION NOTES

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FINISH.

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2 REMOVE STUD WALL

- 3 REMOVE FRAME, DOOR AND HARDWARE
- 4 REMOVE ALL PLUMBING FIXTURES
- 5 REMOVE SUSPENDED CEILING IN ITS ENTIRETY

6 REMOVE FLOOR TILE AND COVE BASE TILE. PREP SLAB FOR NEW FLOOR

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- 9 REMOVE COUNTERTOP
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- 11 REMOVE AND SALVAGE LOCKERS
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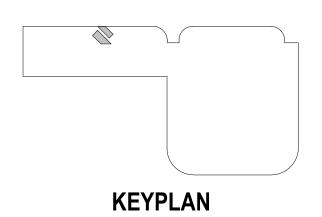
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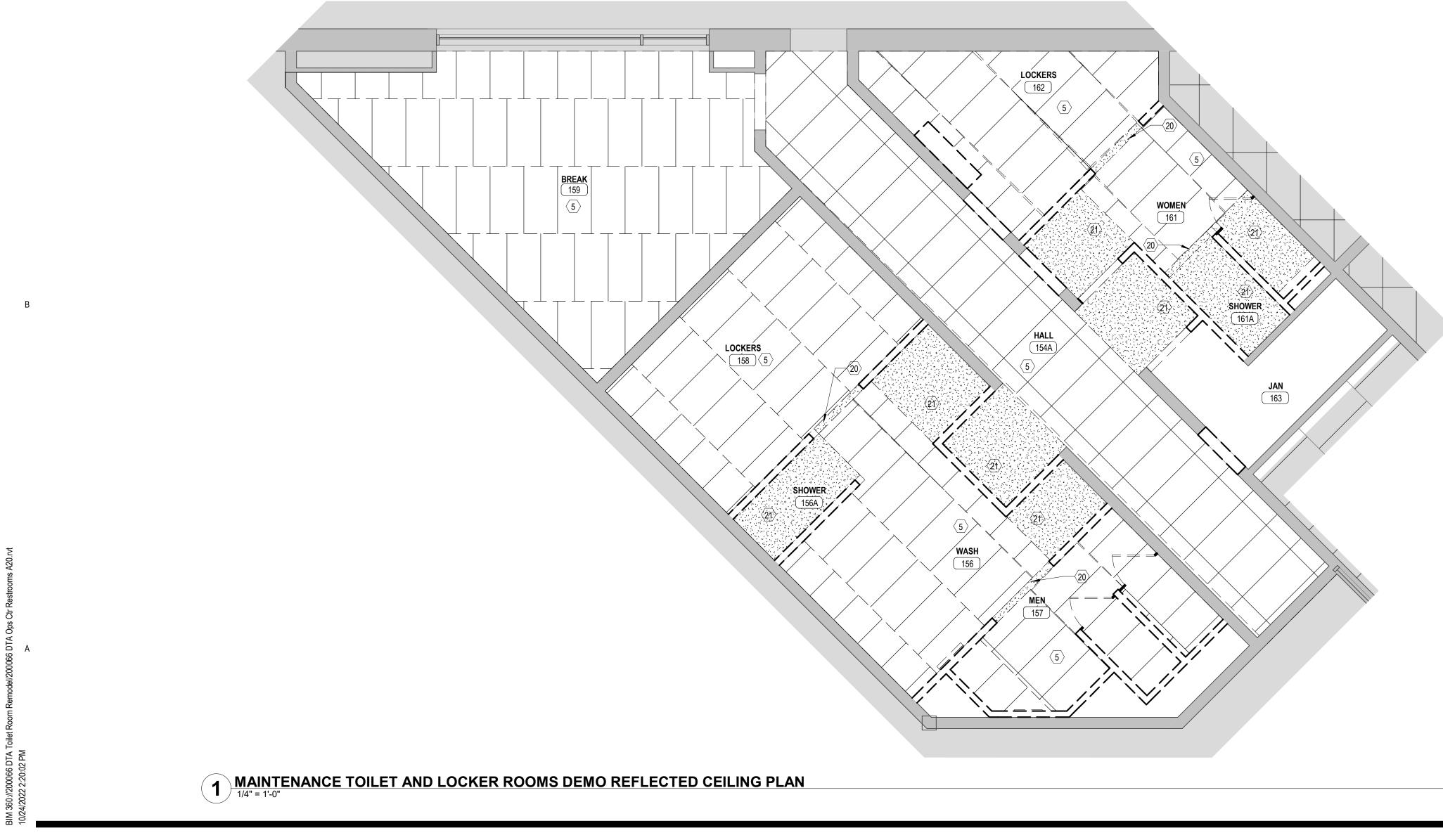
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DRAWING TITLE:

Signature:

TOILET AND LOCKER **ROOM DEMOLITION** PLAN



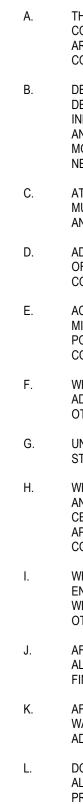


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GENERAL DEMOLITION NOTES







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16	SAW CUT MA
17	REMOVE WAI
18	REMOVE WAI
19	REMOVE SAN
20	REMOVE GYP
21	REMOVE GYP
22	SAW CUT SLA
23	REMOVE CAP RESTROOMS
24	REMOVE STA
25	REMOVE STA
26	REMOVE VCT FINISH.

2

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WHERE REQUIRED FOR SCHEDULED WORK, REMOVE ALL EXISTING FLOOR AND BASE FINISHES INCLUDING MASTICS AND/OR BONDING AGENTS, ALL CEILING SYSTEMS INCLUDING TRIM/ACCESSORIES ON WALLS. REMOVE ANY APPLIED FINISHES. PREPARE ALL SURFACES AS REQUIRED FOR NEW CONSTRUCTION AND/OR FINISHES.

WHERE WALLS OR PARTITIONS ARE INDICATED TO BE REMOVED, REMOVE ENTIRE WALL OR PARTITION INCLUDING ALL ELEMENTS IN OR ON THE WALL WHICH MAY NOT BE SPECIFICALLY INDITICATED, UNLESS NOTED OTHERWISE.

AFTER WALLS, CEILINGS, EQUIPMENT, OR OTHER ELEMENTS ARE REMOVED ALL FLOORS, WALLS, AND CEILINGS ARE TO BE PREPARED TO RECEIVE NEW FINISHES AS REQUIRED IN AREA OF WORK. COORDINATE WITH NEW WORK.

AFTER DEMOLITION ALL RESIDUAL MARKINGS ON EXISTING FLOORING, WALLS AND CEILINGS THAT ARE TO REMAIN SHALL BE REPAIRED TO MATCH ADJACENT SURFACES.

DO NOT DISRUPT UTILITY, SERVICE, SECURITY, FIRE PROTECTION, FIRE ALARM, POWER OR HVAC TO ADJACENT SPACE AND FACILITIES WITHOUT PRIOR APPROVAL BY THE OWNER.

NO WORK IN SHADED AREAS

(#) KEYED SHEET NOTES

1 REMOVE MASONRY WALL

TUD WALL

- RAME, DOOR AND HARDWARE
- PLUMBING FIXTURES
- ISPENDED CEILING IN ITS ENTIRETY

OOR TILE AND COVE BASE TILE. PREP SLAB FOR NEW FLOOR

ESILIENT FLOOR TILE

- TOILET PARTITIONS, GRAB BARS, AND ACCESSORIES
- UNTERTOP
- RORS
- ND SALVAGE LOCKERS
- OCKERS TO REMAIN
- ESILIENT BASE
- DAP AND/ OR PAPER TOWEL DISPENSERS
- OWER ACCESSORIES, SURROUND AND CURTAIN
- ASONRY FOR NEW OPENING
- ALL TILE
- LL MOUNTED SHELF OR CABINET
- ANITARY NAPKIN DISPENSER
- YP BD BULKHEAD
- YP BD OR PLASTER SOFFIT
- LAB OR PLUMBING WORK. REFER TO PLUMBING SHEETS
- RPET FLOORING. PROTECT CARPET TO REMAIN OUTSIDE

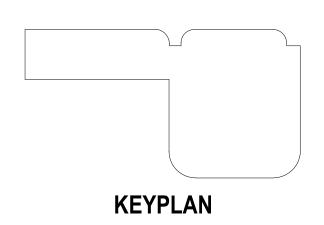
AINLESS STEEL WAINSCOT PANEL

- AINLESS STEEL END WALL CORNER GUARD
- T FLOORING AND WALL BASE. PREP SLAB FOR NEW FLOOR



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10/24/2022 DATE NO

100% DOCUMENTS ISSUED FOR

NO DATE REVISION

I HEREBY CERTIFY that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.

Pandel Se M

Typed or Printed Name: BRANDEE NESS LIAN Date: 10/24/2022 Reg. No.: 42859

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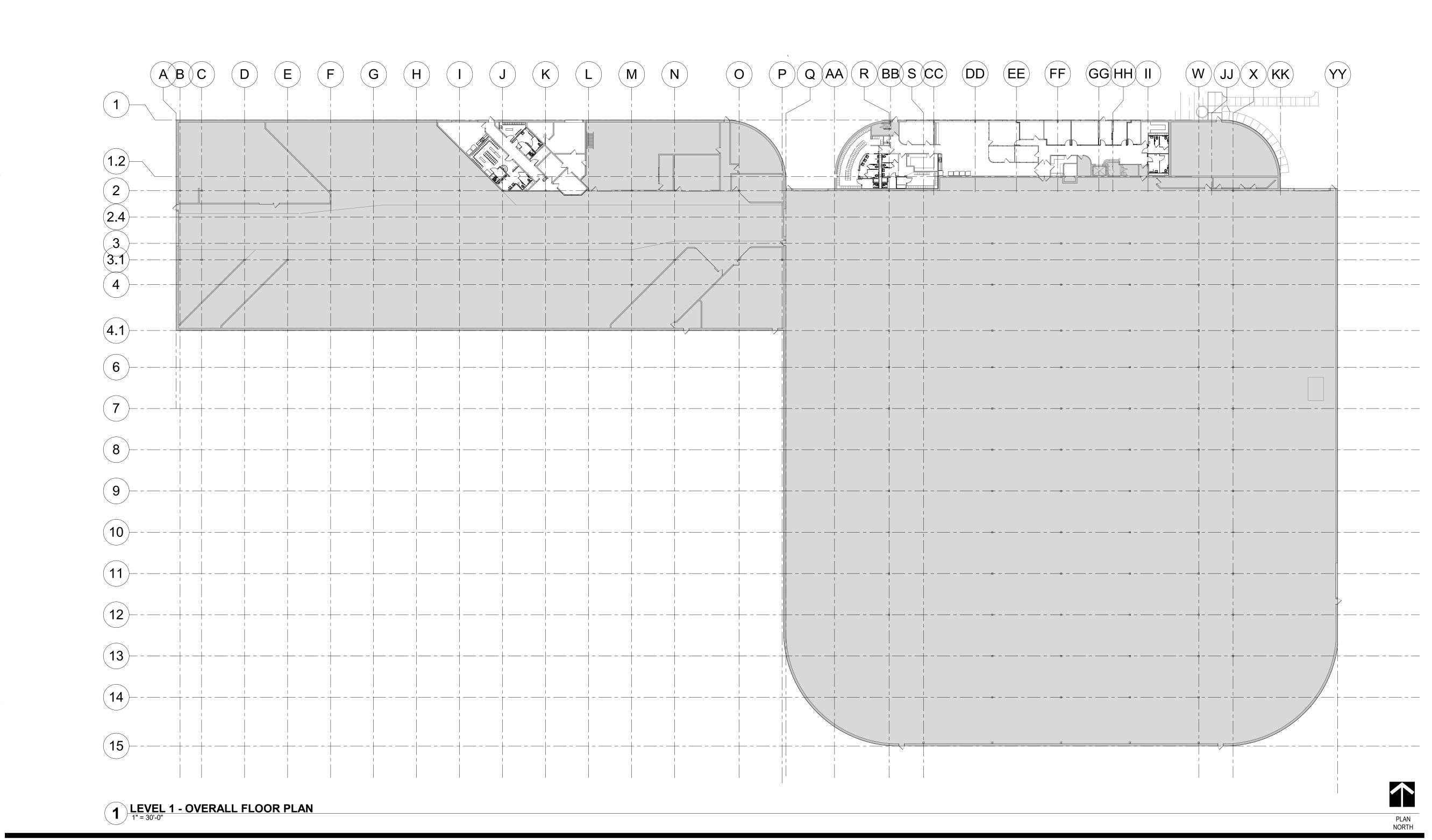
PROJECT NAME: **OPS CENTER OFFICE** AND TOILET REMODEL 2402 WEST MICHIGAN ST. DULUTH, MINNESOTA 55806

DRAWING TITLE:

Signature:

TOILET AND LOCKER **ROOM DEMOLITION REFLECTED CEILING** PLAN





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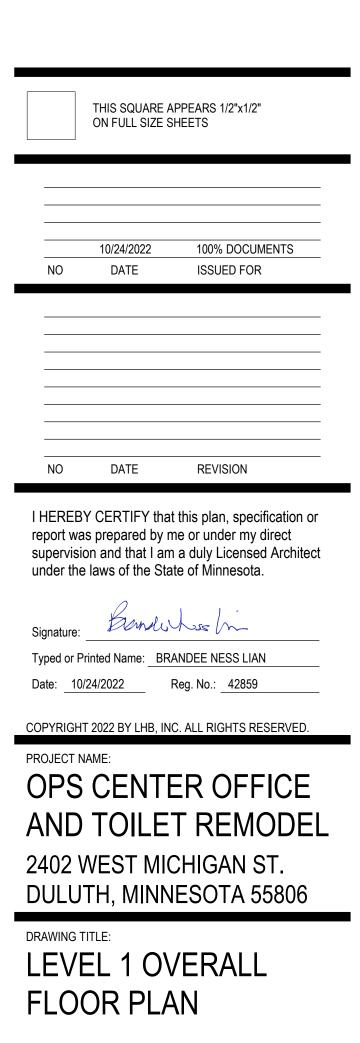
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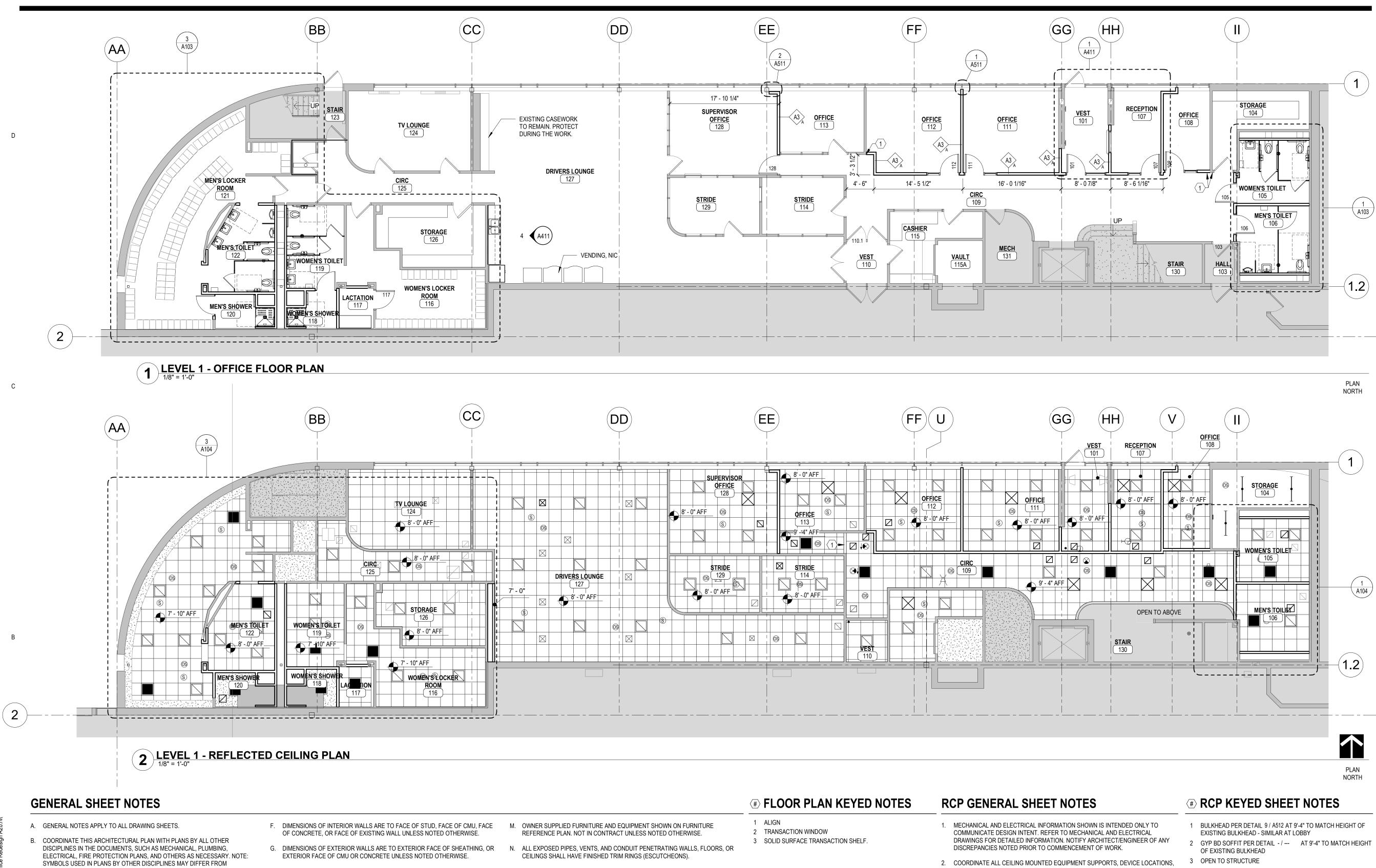
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DRAWN BY: CMK CHECKED BY: BNL PROJ. NO: 190559 DRAWING NO:





- H. AT "ALIGN" NOTE, FINISH FACE OF WALLS TO ALIGN
- CONTAINING PLUMBING PIPES. REFER TO ENLARGED PLANS, WHEN PROVIDED, FOR ADDITIONAL INFORMATION

INSTALL ACOUSTIC BATT INSULATION IN ALL RESTROOM WALLS AND WALLS

- TO SUPPLEMENT THE FLOOR PLANS. K. SEE ROOM FINISH SCHEDULE FOR ROOMS WHERE WINDOW TREATMENTS ARE
- TO BE INSTALLED
- L. PROVIDE METAL AND/OR FIRE-RESISTANT WOOD BLOCKING AT ALL WALL MOUNTED FIXTURES, FURNITURE, EQUIPMENT, ACCESSORIES, AND OTHER SPECIALTIES.

- FOOT.

- ARCHITECTURAL SYMBOLS.
- C. ALL OPENINGS CUT, PENETRATIONS MADE, OR EQUIPMENT INSTALLED IN FIRE RATED ASSEMBLIES SUCH AS WALLS, PARTITIONS, FLOORS, CEILINGS, ETC. SHALL BE RESTORED, SEALED, FIRESTOPPED, OR OTHERWISE CONSTRUCTED TO MAINTAIN THE INTEGRITY AND FIRE RATING OF THE ASSEMBLY TO THE FULL SATISFACTION OF THE ARCHITECT, ENGINEER, BUILDING OFFICIAL AND OWNER. THE GENERAL CONTRACTOR SHALL COORDINATE AND BE RESPONSIBLE FOR THIS WORK.
- TYPICAL INTERIOR PARTITION IS A3 WALL TYPE UNLESS NOTED OTHERWISE. REFER TO WALL TYPES ON SHEET A511
- TYPICAL INTERIOR FURRING PARTITION IS F3 UNLESS NOTED OTHERWISE. REFER TO WALL TYPES ON SHEET A511

O. FIRESTOP AROUND MECHANICAL AND ELECTRICAL EQUIPMENT, ETC. WITH UL APPROVED FIRESTOPPING MATERIAL PER CODE AT ALL PENETRATIONS IN NEW AND EXISTING FIRE RATED WALLS OR FLOORS.

P. ALL NEW AND EXISTING GYPSUM BOARD SURFACES WITHIN THE CONSTRUCTION LIMITS TO RECEIVE PAINT UNLESS NOTED OTHERWISE.

Q. EXTERIOR LANDINGS, STOOPS, BALCONIES, AND PORCHES SHALL BE LEVEL ACROSS DOORWAYS AND SHALL SLOPE AWAY FROM THE BUILDING AT 1/4" PER

R. EXISTING STRUCTURE LOCATIONS ARE APPROXIMATE AND BASED ON INFORMATION PROVIDED BY THE OWNER. FIELD VERIFY AS REQUIRED.

S. NO WORK IN SHADED AREAS.

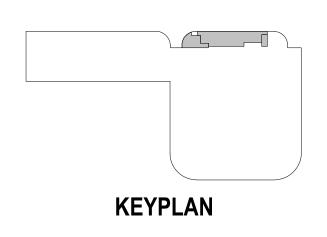
- CLEARANCES, ETC. WITH EQUIPMENT INSTALLERS AND SUPPLIERS PRIOR TO INSTALLATION.
- 3. ACOUSTICAL PANEL CEILING GRIDS OR PANELS SHALL BE CENTERED IN ROOMS UNLESS OTHERWISE NOTED OR DIMENSIONED.
- 4. ALL CEILING MOUNTED ITEMS (LIGHT FIXTURES, SPRINKLER HEADS, SPEAKERS, ETC.) SHALL BE CENTERED IN ACOUSTICAL CEILING PANELS OR GYPSUM BOARD SOFFITS UNLESS OTHERWISE NOTED OR DIMENSIONED.
- 5. SPACE LIGHT FIXTURES EVENLY IN ROOMS, BAYS, SPACES, ETC. AND CENTER BETWEEN EXPOSED STRUCTURAL ELEMENTS WHERE APPROPRIATE.
- 6. DIMENSIONS TO CEILING-INSTALLED ITEMS ARE TO CENTERLINE OF FIXTURE OF EQUIPMENT UNLESS NOTED OTHERWISE.
- 7. PAINT ALL CONDUITS, DUCTWORK, SUPPORTS, HANGERS, ETC. THAT WILL REM/ EXPOSED TO VIEW. MATCH COLOR INDICATED FOR STRUCTURE UNLESS NOTED OTHERWISE.

	1	BULKHEAD PER DETAIL 9 / A512 AT 9'-4" TO MATCH HEIGHT OF EXISTING BULKHEAD - SIMILAR AT LOBBY
Y	2	GYP BD SOFFIT PER DETAIL - / AT 9'-4" TO MATCH HEIGHT OF EXISTING BULKHEAD
٧S,	3	OPEN TO STRUCTURE
	4	CANOPY
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10/24/2022

DATE

NO

Signature:

ISSUED FOR DATE

100% DOCUMENTS

I HEREBY CERTIFY that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.

REVISION

Pandel has m

Typed or Printed Name: BRANDEE NESS LIAN Date: 10/24/2022 Reg. No.: 42859

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PROJECT NAME: **OPS CENTER OFFICE** AND TOILET REMODEL 2402 WEST MICHIGAN ST. DULUTH, MINNESOTA 55806

DRAWING TITLE: OFFICE FLOOR PLANS AND REFLECTED **CEILING PLANS**

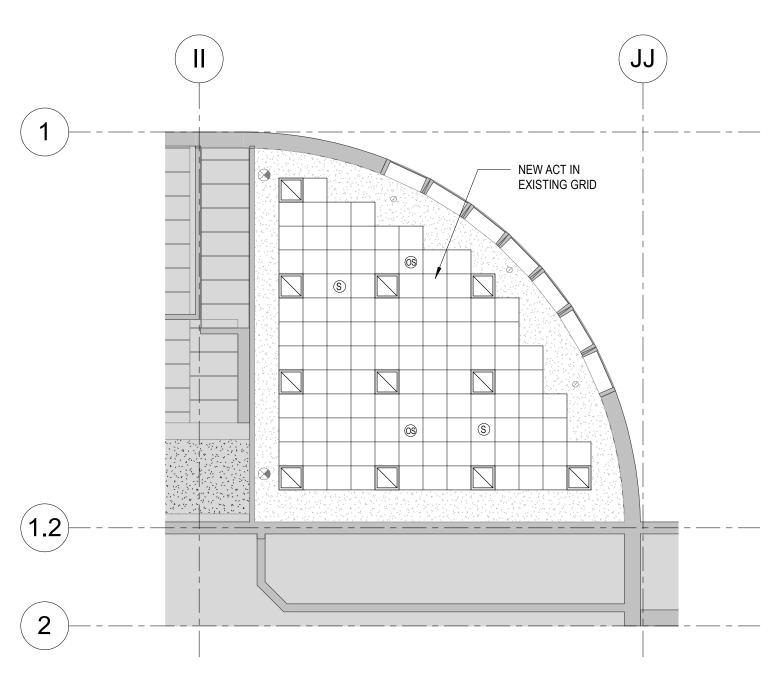


GENERAL SHEET NOTES

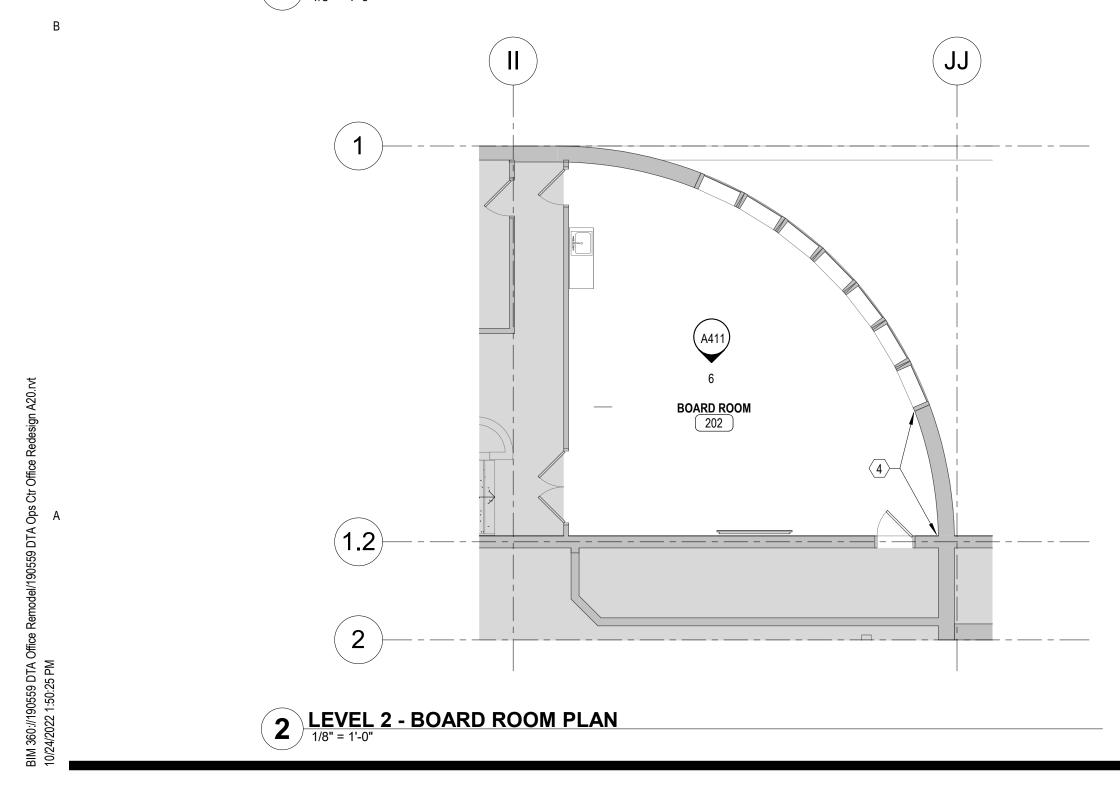
- A. GENERAL NOTES APPLY TO ALL DRAWING SHEETS.
- B. COORDINATE THIS ARCHITECTURAL PLAN WITH PLANS BY ALL OTHER DISCIPLINES IN THE DOCUMENTS, SUCH AS MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION PLANS, AND OTHERS AS NECESSARY. NOTE: SYMBOLS USED IN PLANS BY OTHER DISCIPLINES MAY DIFFER FROM ARCHITECTURAL SYMBOLS.
- C. ALL OPENINGS CUT, PENETRATIONS MADE, OR EQUIPMENT INSTALLED IN FIRE RATED ASSEMBLIES SUCH AS WALLS, PARTITIONS, FLOORS, CEILINGS, ETC. SHALL BE RESTORED, SEALED, FIRESTOPPED, OR OTHERWISE CONSTRUCTED TO MAINTAIN THE INTEGRITY AND FIRE RATING OF THE ASSEMBLY TO THE FULL
- SATISFACTION OF THE ARCHITECT, ENGINEER, BUILDING OFFICIAL AND OWNER. THE GENERAL CONTRACTOR SHALL COORDINATE AND BE RESPONSIBLE FOR THIS WORK.
- D. TYPICAL INTERIOR PARTITION IS A3 WALL TYPE UNLESS NOTED OTHERWISE. REFER TO WALL TYPES ON SHEET A511
- E. TYPICAL INTERIOR FURRING PARTITION IS F3 UNLESS NOTED OTHERWISE. REFER TO WALL TYPES ON SHEET A511

- F. DIMENSIONS OF INTERIOR WALLS ARE TO FACE OF STUD, FACE OF CMU, FACE M. OWNER SUPPLIED FURNITURE AND EQUIPMENT SHOWN ON FURNITURE OF CONCRETE. OR FACE OF EXISTING WALL UNLESS NOTED OTHERWISE.
- G. DIMENSIONS OF EXTERIOR WALLS ARE TO EXTERIOR FACE OF SHEATHING, OR EXTERIOR FACE OF CMU OR CONCRETE UNLESS NOTED OTHERWISE.
- H. AT "ALIGN" NOTE, FINISH FACE OF WALLS TO ALIGN
- INSTALL ACOUSTIC BATT INSULATION IN ALL RESTROOM WALLS AND WALLS CONTAINING PLUMBING PIPES.
- REFER TO ENLARGED PLANS, WHEN PROVIDED, FOR ADDITIONAL INFORMATION TO SUPPLEMENT THE FLOOR PLANS.
- K. SEE ROOM FINISH SCHEDULE FOR ROOMS WHERE WINDOW TREATMENTS ARE TO BE INSTALLED
- PROVIDE METAL AND/OR FIRE-RESISTANT WOOD BLOCKING AT ALL WALL MOUNTED FIXTURES, FURNITURE, EQUIPMENT, ACCESSORIES, AND OTHER SPECIALTIES.

- 0. FIRESTOP AROUND MECHANICAL AND ELECTRICAL EQUIPMENT, ETC. WITH UL APPROVED FIRESTOPPING MATERIAL PER CODE AT ALL PENETRATIONS IN NEW AND EXISTING FIRE RATED WALLS OR FLOORS.
- - FOOT



4 LEVEL 2 - BOARD ROOM REFLECTED CEILING PLAN



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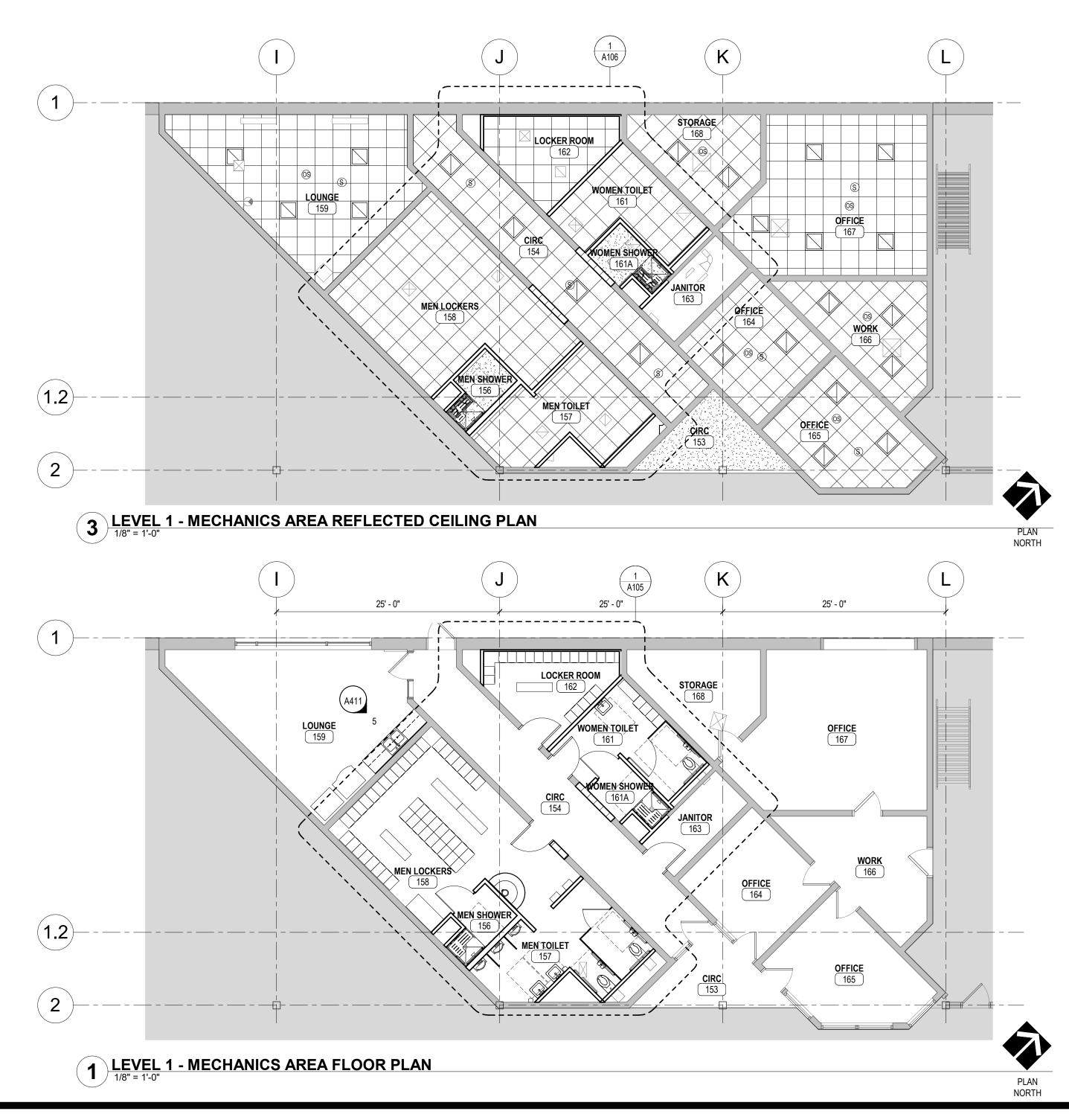
PLAN NORTH

- REFERENCE PLAN. NOT IN CONTRACT UNLESS NOTED OTHERWISE.
- N. ALL EXPOSED PIPES, VENTS, AND CONDUIT PENETRATING WALLS, FLOORS, OR CEILINGS SHALL HAVE FINISHED TRIM RINGS (ESCUTCHEONS).
- P. ALL NEW AND EXISTING GYPSUM BOARD SURFACES WITHIN THE CONSTRUCTION LIMITS TO RECEIVE PAINT UNLESS NOTED OTHERWISE.
- Q. EXTERIOR LANDINGS, STOOPS, BALCONIES, AND PORCHES SHALL BE LEVEL ACROSS DOORWAYS AND SHALL SLOPE AWAY FROM THE BUILDING AT 1/4" PER
- R. EXISTING STRUCTURE LOCATIONS ARE APPROXIMATE AND BASED ON INFORMATION PROVIDED BY THE OWNER. FIELD VERIFY AS REQUIRED.
- S. NO WORK IN SHADED AREAS.

- **FLOOR PLAN KEYED NOTES**
- 1 ALIGN 2 TRANSACTION WINDOW
- 3 SOLID SURFACE TRANSACTION SHELF
- NEW GYP BD PANEL WHERE DAMAGED PANEL WAS REMOVED. PROVIDE CLEAN TRANSITION TO EXISTING WALLCOVERING AT WINDOW FRAME. PRIME NEW WORK AND THEN PAINT ENTIRE WALL, INCLUDING OVER EXISTING WALLCOVERING TO REMAIN.

RCP GENERAL SHEET NOTES

- 1. MECHANICAL AND ELECTRICAL INFORMATION SHOWN IS INTENDED ONLY TO COMMUNICATE DESIGN INTENT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR DETAILED INFORMATION. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES NOTED PRIOR TO COMMENCEMENT OF WORK.
- COORDINATE ALL CEILING MOUNTED EQUIPMENT SUPPORTS, DEVICE LOCATIONS, CLEARANCES, ETC. WITH EQUIPMENT INSTALLERS AND SUPPLIERS PRIOR TO INSTALLATION.
- 3. ACOUSTICAL PANEL CEILING GRIDS OR PANELS SHALL BE CENTERED IN ROOMS UNLESS OTHERWISE NOTED OR DIMENSIONED.
- 4. ALL CEILING MOUNTED ITEMS (LIGHT FIXTURES, SPRINKLER HEADS, SPEAKERS, ETC.) SHALL BE CENTERED IN ACOUSTICAL CEILING PANELS OR GYPSUM BOARD SOFFITS UNLESS OTHERWISE NOTED OR DIMENSIONED.
- 5. SPACE LIGHT FIXTURES EVENLY IN ROOMS, BAYS, SPACES, ETC. AND CENTER BETWEEN EXPOSED STRUCTURAL ELEMENTS WHERE APPROPRIATE.
- 6. DIMENSIONS TO CEILING-INSTALLED ITEMS ARE TO CENTERLINE OF FIXTURE OR EQUIPMENT UNLESS NOTED OTHERWISE.
- 7. PAINT ALL CONDUITS, DUCTWORK, SUPPORTS, HANGERS, ETC. THAT WILL REMAIN EXPOSED TO VIEW. MATCH COLOR INDICATED FOR STRUCTURE UNLESS NOTED OTHERWISE.



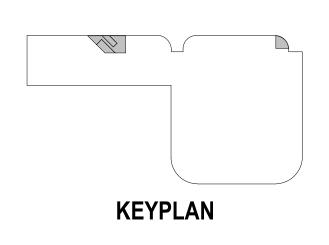
TRUE REP KEYED SHEET NOTES

- 1 BULKHEAD PER DETAIL 9 / A512 AT 9'-4" TO MATCH HEIGHT OF EXISTING BULKHEAD - SIMILAR AT LOBBY
- 2 GYP BD SOFFIT PER DETAIL / --- AT 9'-4" TO MATCH HEIGHT OF EXISTING BULKHEAD
- 3 OPEN TO STRUCTURE
- 4 CANOPY



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100% DOCUMENTS

DATE ISSUED FOR

10/24/2022

NO DATE REVISION

I HEREBY CERTIFY that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.

Danderhos In

Typed or Printed Name: BRANDEE NESS LIA Date: 10/24/2022 Reg. No.: 42859

Signature:

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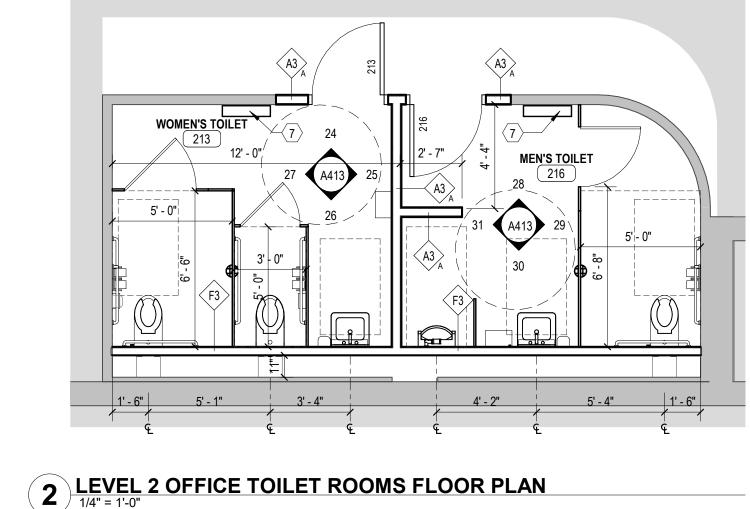
PROJECT NAME: **OPS CENTER OFFICE** AND TOILET REMODEL 2402 WEST MICHIGAN ST. DULUTH, MINNESOTA 55806

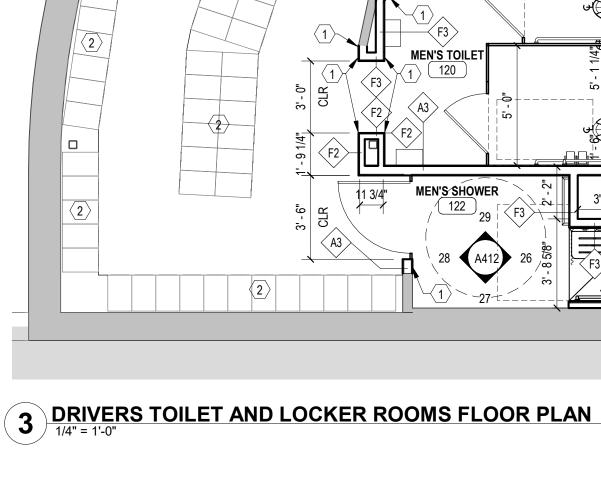
DRAWING TITLE: OFFICE FLOOR PLANS AND REFLECTED **CEILING PLANS**

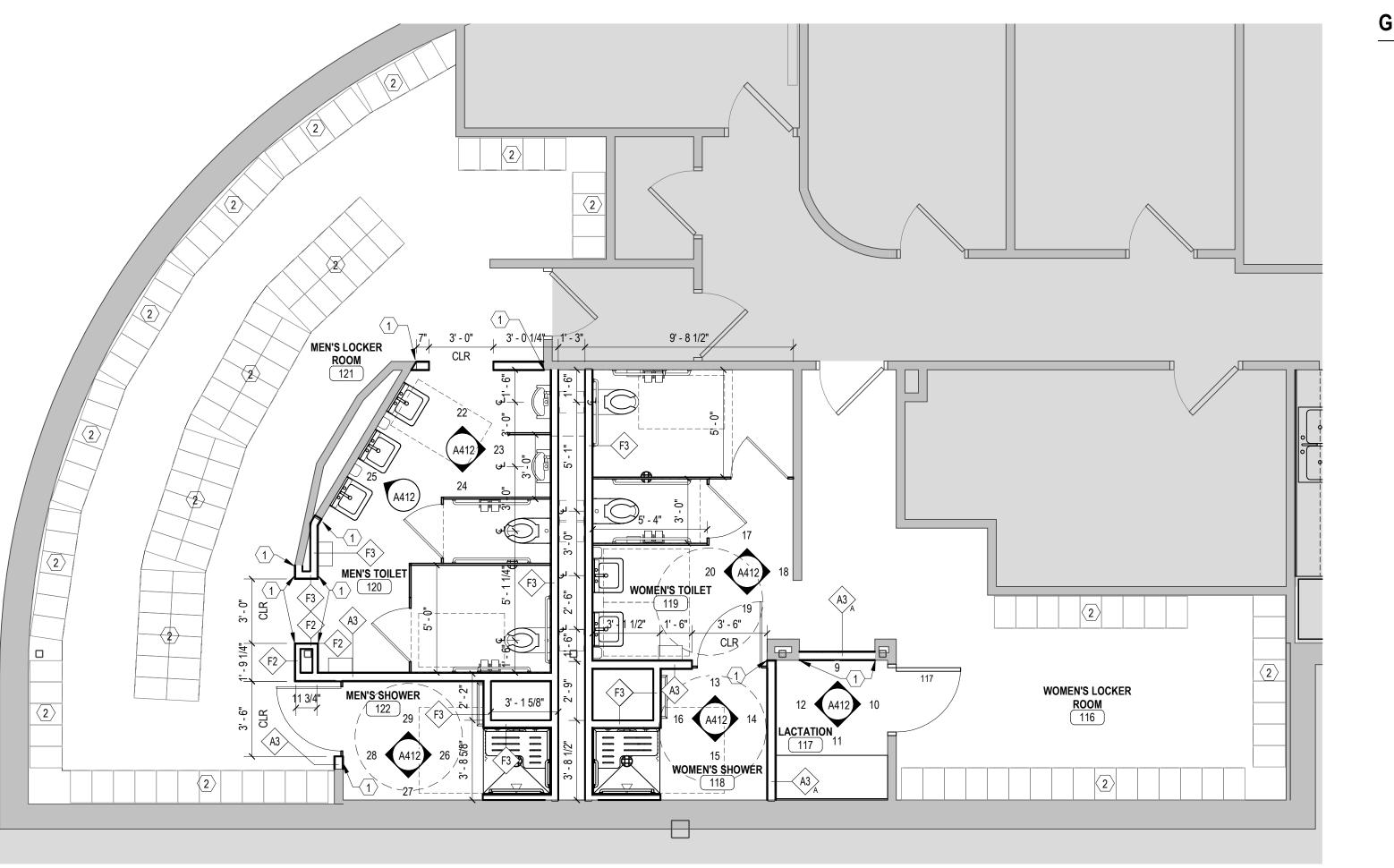


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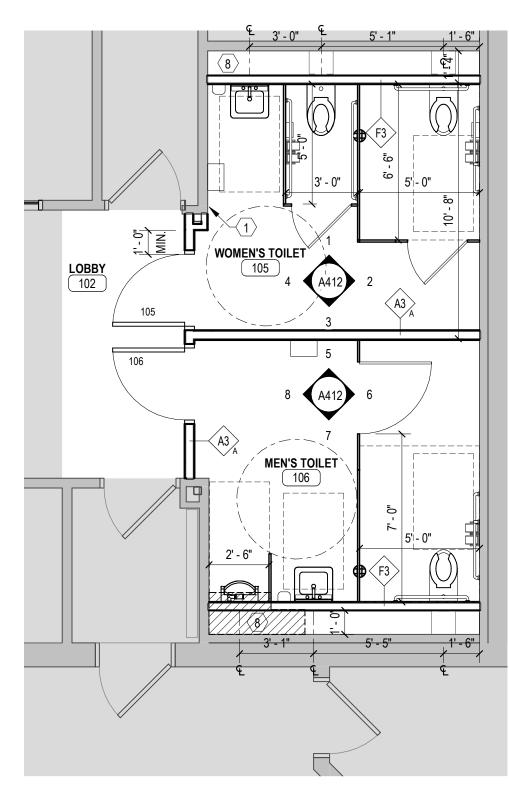
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3

GENERAL SHEET NOTES

A. GENERAL NOTES APPLY TO ALL DRAWING SHEETS.

B. COORDINATE THIS ARCHITECTURAL PLAN WITH PLANS BY ALL OTHER DISCIPLINES IN THE DOCUMENTS, SUCH AS CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION PLANS, AND OTHERS AS NECESSARY. NOTE: SYMBOLS USED IN PLANS BY OTHER DISCIPLINES MAY DIFFER FROM ARCHITECTURAL SYMBOLS.

C. ALL OPENINGS CUT, PENETRATIONS MADE, OR EQUIPMENT INSTALLED IN FIRE RATED ASSEMBLIES SUCH AS WALLS, PARTITIONS, FLOORS, CEILINGS, ETC. SHALL BE RESTORED. SEALED. FIRESTOPPED. OR OTHERWISE CONSTRUCTED TO MAINTAIN THE INTEGRITY AND FIRE RATING OF THE ASSEMBLY TO THE FULL SATISFACTION OF THE ARCHITECT, ENGINEER, BUILDING OFFICIAL AND OWNER. THE GENERAL CONTRACTOR SHALL COORDINATE AND BE RESPONSIBLE FOR THIS WORK.

D. TYPICAL INTERIOR PARTITION IS A3 WALL TYPE UNLESS NOTED OTHERWISE. REFER TO WALL TYPES ON SHEET A102

E. TYPICAL INTERIOR FURRING PARTITION IS F3 UNLESS NOTED OTHERWISE. REFER TO WALL TYPES ON SHEET A102

F. DIMENSIONS OF INTERIOR WALLS ARE TO FACE OF STUD, FACE OF CMU, FACE OF CONCRETE, OR FACE OF EXISTING WALL UNLESS NOTED OTHERWISE.

G. DIMENSIONS OF EXTERIOR WALLS ARE TO EXTERIOR FACE OF SHEATHING, OR EXTERIOR FACE OF CMU OR CONCRETE UNLESS NOTED OTHERWISE.

H. AT "ALIGN" NOTE, FINISH FACE OF WALLS TO ALIGN

I. INSTALL ACOUSTIC BATT INSULATION IN ALL RESTROOM WALLS AND WALLS CONTAINING PLUMBING PIPES.

J. REFER TO ENLARGED PLANS, WHEN PROVIDED, FOR ADDITIONAL INFORMATION TO SUPPLEMENT THE FLOOR PLANS.

K. SEE SHEET G002 FOR STANDARD AND ACCESSIBLE MOUNTING HEIGHTS OF FIXTURES AND ACCESSORIES.

L. REFER TO PLUMBING PLANS FOR FLOOR DRAINS AND CLEANOUTS.

M. PROVIDE METAL AND/OR FIRE-RESISTANT WOOD BLOCKING AT ALL WALL MOUNTED FIXTURES, FURNITURE, EQUIPMENT, ACCESSORIES, AND OTHER SPECIALTIES.

N. ALL EXPOSED PIPES, VENTS, AND CONDUIT PENETRATING WALLS, FLOORS, OR CEILINGS SHALL HAVE FINISHED TRIM RINGS (ESCUTCHEONS).

O. FIRESTOP AROUND MECHANICAL AND ELECTRICAL EQUIPMENT, ETC. WITH UL APPROVED FIRESTOPPING MATERIAL PER CODE AT ALL PENETRATIONS IN NEW AND EXISTING FIRE RATED WALLS OR FLOORS.

P. ALL NEW AND EXISTING GYPSUM BOARD SURFACES WITHIN THE CONSTRUCTION LIMITS TO RECEIVE PAINT UNLESS NOTED OTHERWISE.

Q. EXISTING STRUCTURE LOCATIONS ARE APPROXIMATE AND BASED ON INFORMATION PROVIDED BY THE OWNER. FIELD VERIFY AS REQUIRED.

(#) KEYED SHEET NOTES

2 EXISTING LOCKERS TO REMAIN 3 RELOCATED/NEW LOCKERS 4 BENCH

4

5 ADA BENCH 6 INFILL OPENING. TOOTH IN CMU.

1 ALIGN

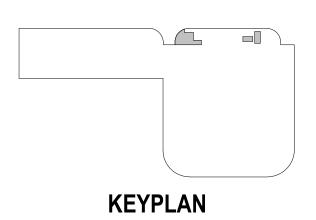
7 FIN TUBE. SEE MECHANICAL

8 SLAB INFILL AFTER PLUMBING WORK. REFER TO PLUMBING SHEETS.



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10/24/2022 DATE NO

100% DOCUMENTS ISSUED FOR

DATE REVISION

I HEREBY CERTIFY that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.

Dandelless In

Typed or Printed Name: BRANDEE NESS LIA Date: 10/24/2022 Reg. No.: 42859

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PROJECT NAME: **OPS CENTER OFFICE** AND TOILET REMODEL 2402 WEST MICHIGAN ST. DULUTH, MINNESOTA 55806

DRAWING TITLE:

Signature:

TOILET AND LOCKER ROOM FLOOR PLANS

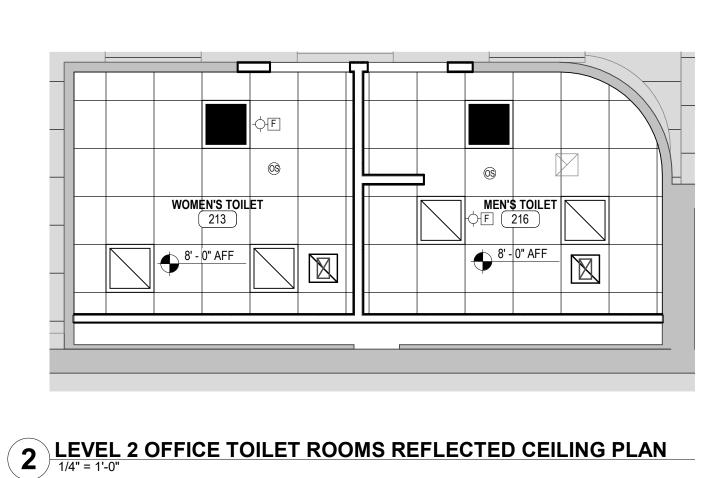


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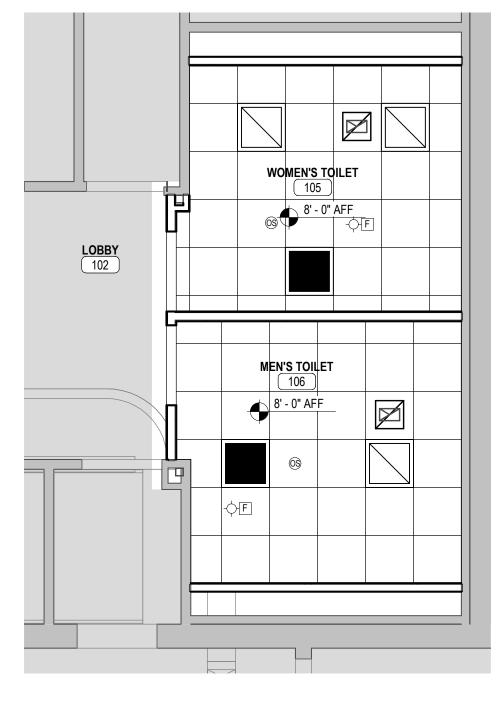
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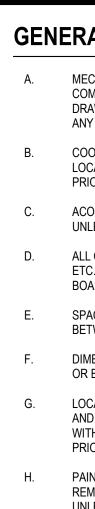
3 DRIVERS TOILET AND LOCKER ROOMS REFLECTED CEILING PLAN



1 LEVEL 1 OFFICE TOILET ROOMS REFLECTED CEILING PLAN







LEGEND

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GENERAL SHEET NOTES

MECHANICAL AND ELECTRICAL INFORMATION SHOWN IS INTENDED ONLY TO COMMUNICATE DESIGN INTENT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR DETAILED INFORMATION. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES NOTED PRIOR TO COMMENCEMENT OF WORK.

COORDINATE ALL CEILING MOUNTED EQUIPMENT SUPPORTS, DEVICE LOCATIONS, CLEARANCES, ETC. WITH EQUIPMENT INSTALLERS AND SUPPLIERS PRIOR TO INSTALLATION.

ACOUSTICAL PANEL CEILING GRIDS OR PANELS SHALL BE CENTERED IN ROOMS UNLESS OTHERWISE NOTED OR DIMENSIONED.

ALL CEILING MOUNTED ITEMS (LIGHT FIXTURES, SPRINKLER HEADS, SPEAKERS, ETC.) SHALL BE CENTERED IN ACOUSTICAL CEILING PANELS OR GYPSUM BOARD SOFFITS UNLESS OTHERWISE NOTED OR DIMENSIONED.

SPACE LIGHT FIXTURES EVENLY IN ROOMS, BAYS, SPACES, ETC. AND CENTER BETWEEN EXPOSED STRUCTURAL ELEMENTS WHERE APPROPRIATE.

DIMENSIONS TO CEILING-INSTALLED ITEMS ARE TO CENTERLINE OF FIXTURE OR EQUIPMENT UNLESS NOTED OTHERWISE.

LOCATE CONTROL JOINTS IN GYPSUM BOARD CEILINGS, SOFFITS, BULKHEADS, AND FASCIAS AS INDICATED ON DRAWINGS OR AS SPECIFIED AND TO ALIGN WITH THOSE IN WALLS BELOW. VERIFY PROPOSED LAYOUT WITH ARCHITECT PRIOR TO INSTALLATION.

PAINT ALL CONDUITS, DUCTWORK, SUPPORTS, HANGERS, ETC. THAT WILL REMAIN EXPOSED TO VIEW. MATCH COLOR INDICATED FOR STRUCTURE UNLESS NOTED OTHERWISE.

2X2 LAY-IN LED

EXHAUST GRILLE

OCCUPANCY SENSOR

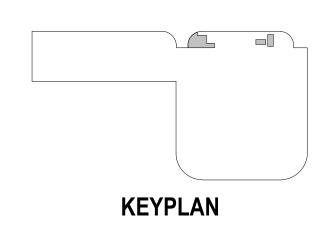
SPEAKER

RECESSED LED DOWNLIGHT



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ISSUED FOR

10/24/2022

DATE

NO

(#) KEYED SHEET NOTES

4

1 BULKHEAD AT 7'-0" 2 GYP BD SOFFIT 3 OPEN TO STRUCTURE

DATE REVISION NO I HEREBY CERTIFY that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota. Danderhosen Signature: Typed or Printed Name: BRANDEE NESS LIA Date: 10/24/2022 Reg. No.: 42859

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PROJECT NAME: **OPS CENTER OFFICE** AND TOILET REMODEL 2402 WEST MICHIGAN ST. DULUTH, MINNESOTA 55806

DRAWING TITLE: TOILET AND LOCKER ROOM REFLECTED **CEILING PLANS**



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В



(#) KEYED SHEET NOTES

- 1 ALIGN
- 2 EXISTING LOCKERS TO REMAIN
- 3 RELOCATED/NEW LOCKERS 4 BENCH
- 5 ADA BENCH
- 6 INFILL OPENING. TOOTH IN CMU. 7 FIN TUBE. SEE MECHANICAL
- 8 SLAB INFILL AFTER PLUMBING WORK. REFER TO PLUMBING SHEETS.

GENERAL SHEET NOTES



- D. TYPICAL INTERIOR PARTITION IS A3 WALL TYPE UNLESS NOTED OTHERWISE. REFER TO WALL TYPES ON SHEET A102
- E. TYPICAL INTERIOR FURRING PARTITION IS F3 UNLESS NOTED OTHERWISE. REFER TO WALL TYPES ON SHEET A102
- F. DIMENSIONS OF INTERIOR WALLS ARE TO FACE OF STUD, FACE OF CMU, FACE OF CONCRETE, OR FACE OF EXISTING WALL UNLESS NOTED OTHERWISE.
- G. DIMENSIONS OF EXTERIOR WALLS ARE TO EXTERIOR FACE OF SHEATHING, OR EXTERIOR FACE OF CMU OR CONCRETE UNLESS NOTED OTHERWISE.
- H. AT "ALIGN" NOTE, FINISH FACE OF WALLS TO ALIGN

- L. REFER TO PLUMBING PLANS FOR FLOOR DRAINS AND CLEANOUTS.
- M. PROVIDE METAL AND/OR FIRE-RESISTANT WOOD BLOCKING AT ALL WALL MOUNTED FIXTURES, FURNITURE, EQUIPMENT, ACCESSORIES, AND OTHER SPECIALTIES.
- N. ALL EXPOSED PIPES, VENTS, AND CONDUIT PENETRATING WALLS, FLOORS, OR CEILINGS SHALL HAVE FINISHED TRIM RINGS (ESCUTCHEONS).

1 MAINTENANCE TOILET AND LOCKER ROOMS FLOOR PLAN

A. GENERAL NOTES APPLY TO ALL DRAWING SHEETS.

- B. COORDINATE THIS ARCHITECTURAL PLAN WITH PLANS BY ALL OTHER DISCIPLINES IN THE DOCUMENTS, SUCH AS CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION PLANS, AND OTHERS AS NECESSARY. NOTE: SYMBOLS USED IN PLANS BY OTHER DISCIPLINES MAY DIFFER FROM ARCHITECTURAL SYMBOLS.
- C. ALL OPENINGS CUT, PENETRATIONS MADE, OR EQUIPMENT INSTALLED IN FIRE RATED ASSEMBLIES SUCH AS WALLS, PARTITIONS, FLOORS, CEILINGS, ETC. SHALL BE RESTORED, SEALED, FIRESTOPPED, OR OTHERWISE CONSTRUCTED TO MAINTAIN THE INTEGRITY AND FIRE RATING OF THE ASSEMBLY TO THE FULL SATISFACTION OF THE ARCHITECT, ENGINEER, BUILDING OFFICIAL AND OWNER. THE GENERAL CONTRACTOR SHALL COORDINATE AND BE RESPONSIBLE FOR THIS WORK.

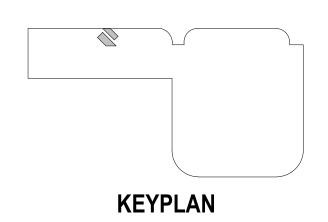
- I. INSTALL ACOUSTIC BATT INSULATION IN ALL RESTROOM WALLS AND WALLS CONTAINING PLUMBING PIPES.
- J. REFER TO ENLARGED PLANS, WHEN PROVIDED, FOR ADDITIONAL INFORMATION TO SUPPLEMENT THE FLOOR PLANS.
- K. SEE SHEET G002 FOR STANDARD AND ACCESSIBLE MOUNTING HEIGHTS OF FIXTURES AND ACCESSORIES.
- O. FIRESTOP AROUND MECHANICAL AND ELECTRICAL EQUIPMENT, ETC. WITH UL APPROVED FIRESTOPPING MATERIAL PER CODE AT ALL PENETRATIONS IN NEW AND EXISTING FIRE RATED WALLS OR FLOORS.
- P. ALL NEW AND EXISTING GYPSUM BOARD SURFACES WITHIN THE CONSTRUCTION LIMITS TO RECEIVE PAINT UNLESS NOTED OTHERWISE.
- Q. EXISTING STRUCTURE LOCATIONS ARE APPROXIMATE AND BASED ON INFORMATION PROVIDED BY THE OWNER. FIELD VERIFY AS REQUIRED.

4



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CLIENT: **DULUTH TRANSIT** AUTHORITY (DTA) 2402 WEST MICHIGAN ST. DULUTH, MINNESOTA 55806



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		ONT OLL SIZE S			
		10/24/2022	100% DOCUMENTS		
	NO	DATE	ISSUED FOR		
	NO	DATE	REVISION		
I HEREBY CERTIFY that this plan, specification or report was prepared by me or under my direct					
	supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.				
Si	Signature:				

Signatu	ure:	Perna 135 m		
Typed or Printed Name:		BRANDEE NESS LIAN		
Date:	10/24/2022	Reg. No.: 42859		

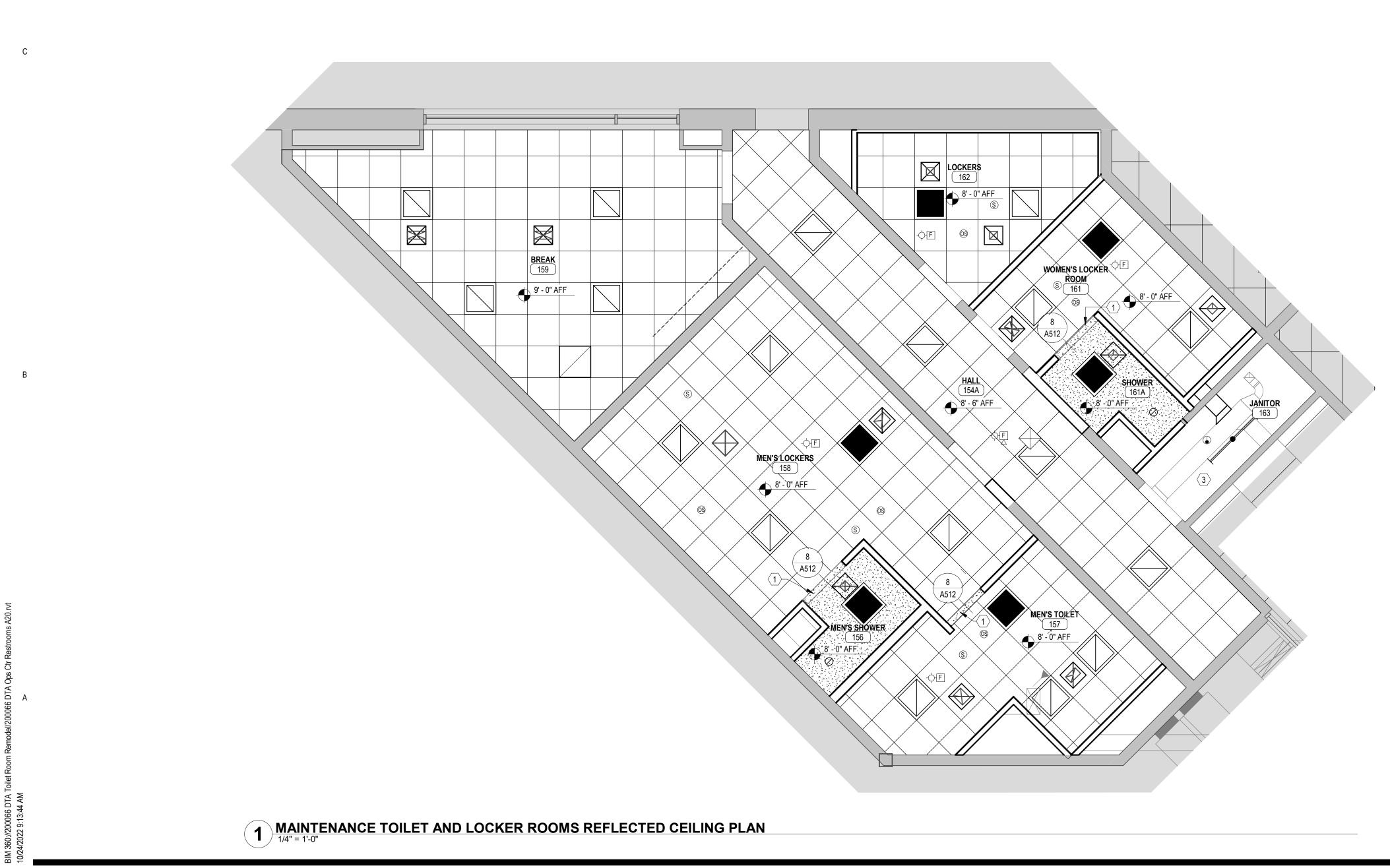
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PROJECT NAME: **OPS CENTER OFFICE** AND TOILET REMODEL 2402 WEST MICHIGAN ST. DULUTH, MINNESOTA 55806

DRAWING TITLE:

TOILET AND LOCKER ROOM FLOOR PLANS AND WALL TYPES





D

1

GENERAL SHEET NOTES

Α. C. D.

Β.

E.

F.

- G.
- H.

LEGEND

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- 2 GYP BD SOFFIT

MECHANICAL AND ELECTRICAL INFORMATION SHOWN IS INTENDED ONLY TO COMMUNICATE DESIGN INTENT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR DETAILED INFORMATION. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES NOTED PRIOR TO COMMENCEMENT OF WORK.

COORDINATE ALL CEILING MOUNTED EQUIPMENT SUPPORTS, DEVICE LOCATIONS, CLEARANCES, ETC. WITH EQUIPMENT INSTALLERS AND SUPPLIERS PRIOR TO INSTALLATION.

ACOUSTICAL PANEL CEILING GRIDS OR PANELS SHALL BE CENTERED IN ROOMS UNLESS OTHERWISE NOTED OR DIMENSIONED.

ALL CEILING MOUNTED ITEMS (LIGHT FIXTURES, SPRINKLER HEADS, SPEAKERS, ETC.) SHALL BE CENTERED IN ACOUSTICAL CEILING PANELS OR GYPSUM BOARD SOFFITS UNLESS OTHERWISE NOTED OR DIMENSIONED.

SPACE LIGHT FIXTURES EVENLY IN ROOMS, BAYS, SPACES, ETC. AND CENTER BETWEEN EXPOSED STRUCTURAL ELEMENTS WHERE APPROPRIATE.

DIMENSIONS TO CEILING-INSTALLED ITEMS ARE TO CENTERLINE OF FIXTURE OR EQUIPMENT UNLESS NOTED OTHERWISE.

LOCATE CONTROL JOINTS IN GYPSUM BOARD CEILINGS, SOFFITS, BULKHEADS, AND FASCIAS AS INDICATED ON DRAWINGS OR AS SPECIFIED AND TO ALIGN WITH THOSE IN WALLS BELOW. VERIFY PROPOSED LAYOUT WITH ARCHITECT PRIOR TO INSTALLATION.

PAINT ALL CONDUITS, DUCTWORK, SUPPORTS, HANGERS, ETC. THAT WILL REMAIN EXPOSED TO VIEW. MATCH COLOR INDICATED FOR STRUCTURE UNLESS NOTED OTHERWISE.

2X2 LAY-IN LED

EXHAUST GRILLE

OCCUPANCY SENSOR

SPEAKER

RECESSED LED DOWNLIGHT

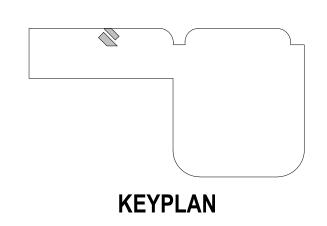
(#) KEYED SHEET NOTES

1 BULKHEAD AT 7'-0" 3 OPEN TO STRUCTURE



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100% DOCUMENTS ISSUED FOR

DATE REVISION

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Banduhse m

Typed or Printed Name: BRANDEE NESS LIAM Date: 10/24/2022 Reg. No.: 42859

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PROJECT NAME: **OPS CENTER OFFICE** AND TOILET REMODEL 2402 WEST MICHIGAN ST. DULUTH, MINNESOTA 55806

DRAWING TITLE:

Signature:

TOILET AND LOCKER ROOM REFLECTED **CEILING PLANS**



Ϋ́Α

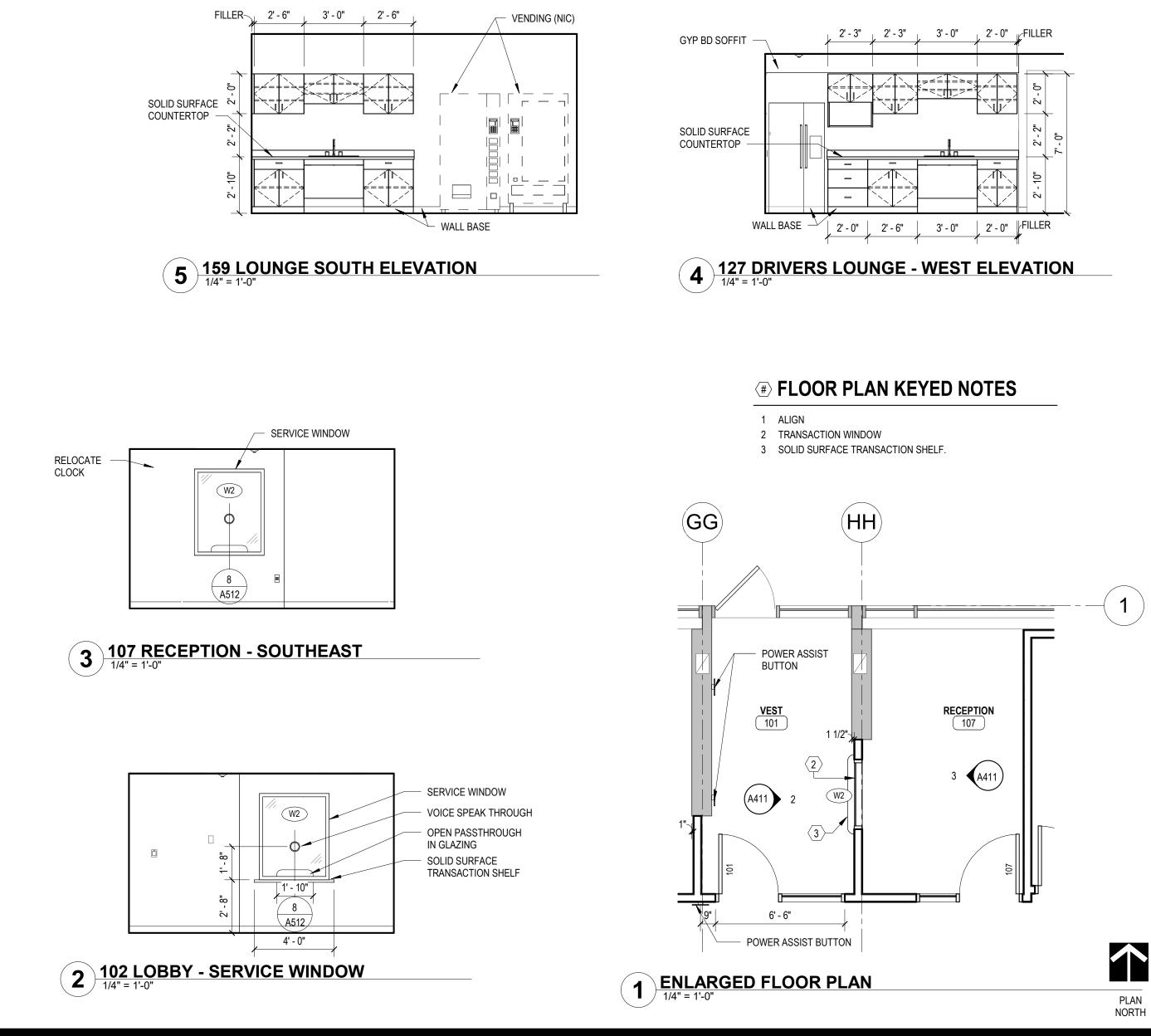
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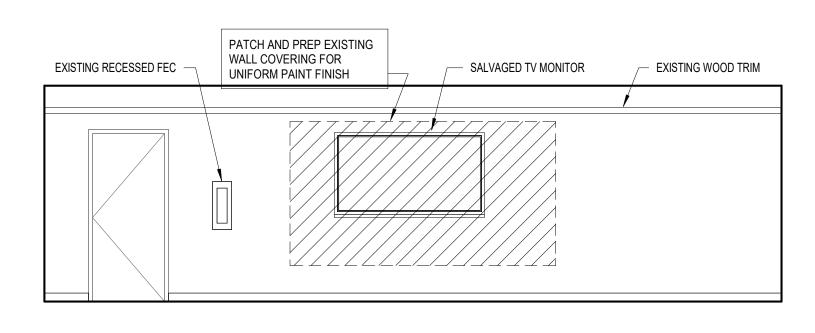
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2



6 202 BOARD ROOM - SOUTH ELEVATION 1/4" = 1'-0"





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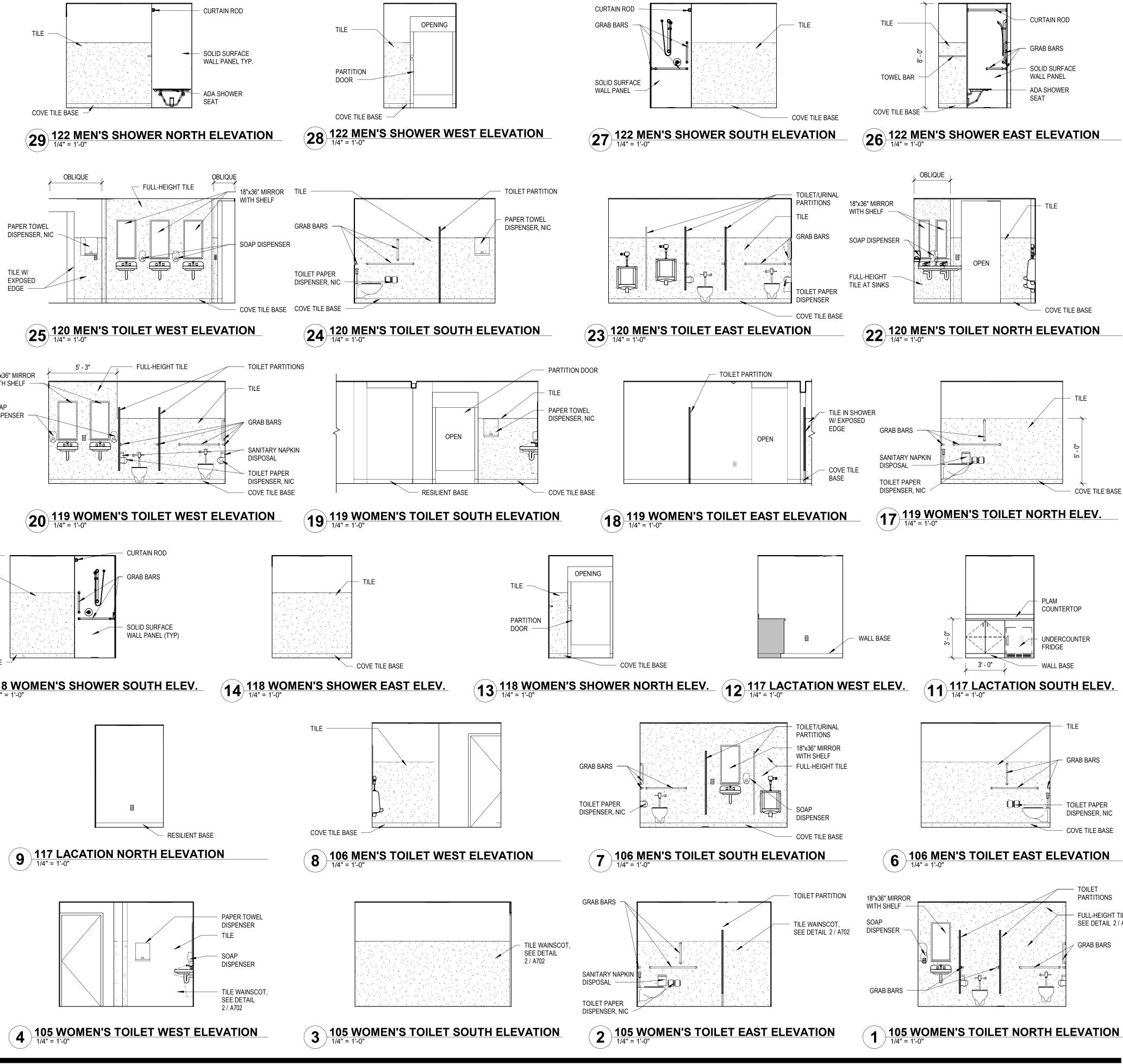
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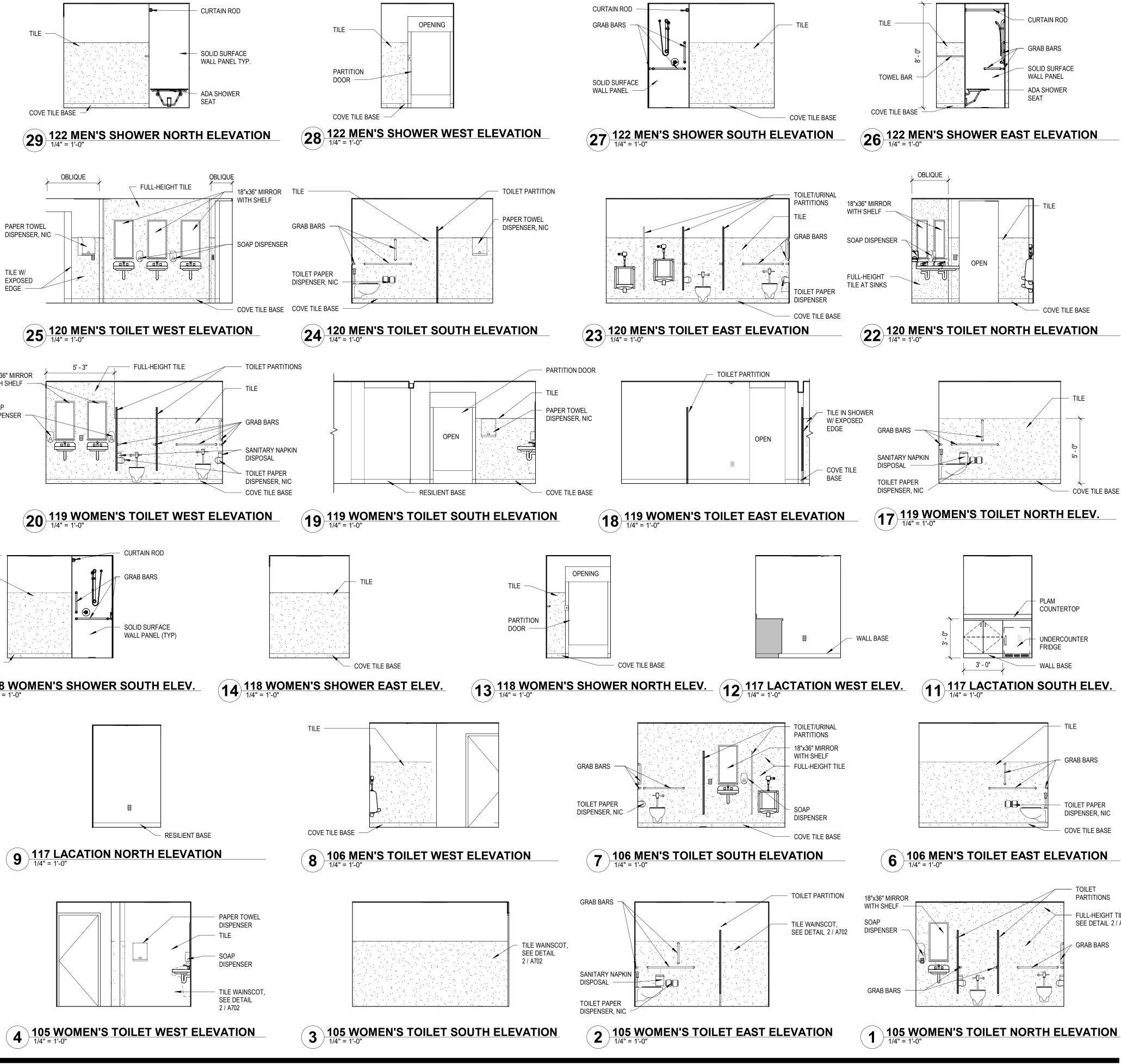
		PPEARS 1/2"x1/2"
	ON FULL SIZE SI	HEETS
NO	10/24/2022 DATE	100% DOCUMENTS ISSUED FOR
NO	DATE	REVISION
report wa supervisio	s prepared by m on and that I am laws of the Stat	this plan, specification or ne or under my direct a duly Licensed Architect te of Minnesota.
Ū		ANDEE NESS LIAN Reg. No.: <u>42859</u>
COPYRIGH	⁻ 2022 BY LHB, INC	C. ALL RIGHTS RESERVED.
AND 2402 V	CENTE TOILE	ER OFFICE T REMODEL CHIGAN ST. ESOTA 55806
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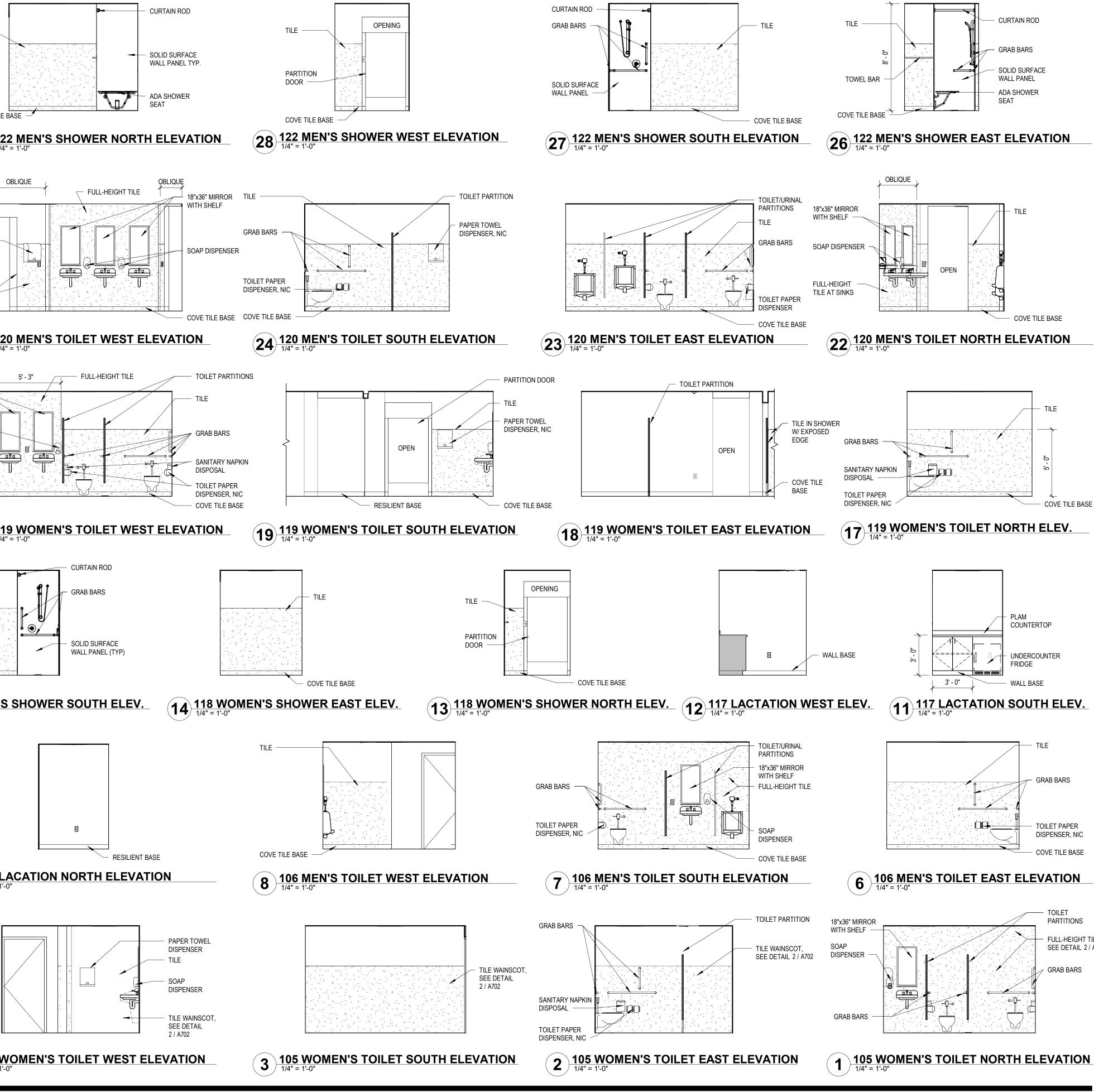
DRAWN BY: CMK/KJS CHECKED BY: BNL PROJ. NO: 190559 DRAWING NO:











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OPS CENTER OFFICE

AND TOILET REMODEL

2402 WEST MICHIGAN ST.

DULUTH, MINNESOTA 55806

Reg. No.: 42859

A412

report was prepared by me or under my direct supervision and that I am a duly Licensed Architect

under the laws of the State of Minnesota.

Typed or Printed Name: BRANDEE NESS LIAM

ON FULL SIZE SHEETS

10/24/2022

DATE

DATE

NO

Signature:

Date: 10/24/2022

PROJECT NAME:

DRAWING TITLE:

INTERIOR

DRAWN BY: CMK/KJS CHECKED BY: BNL

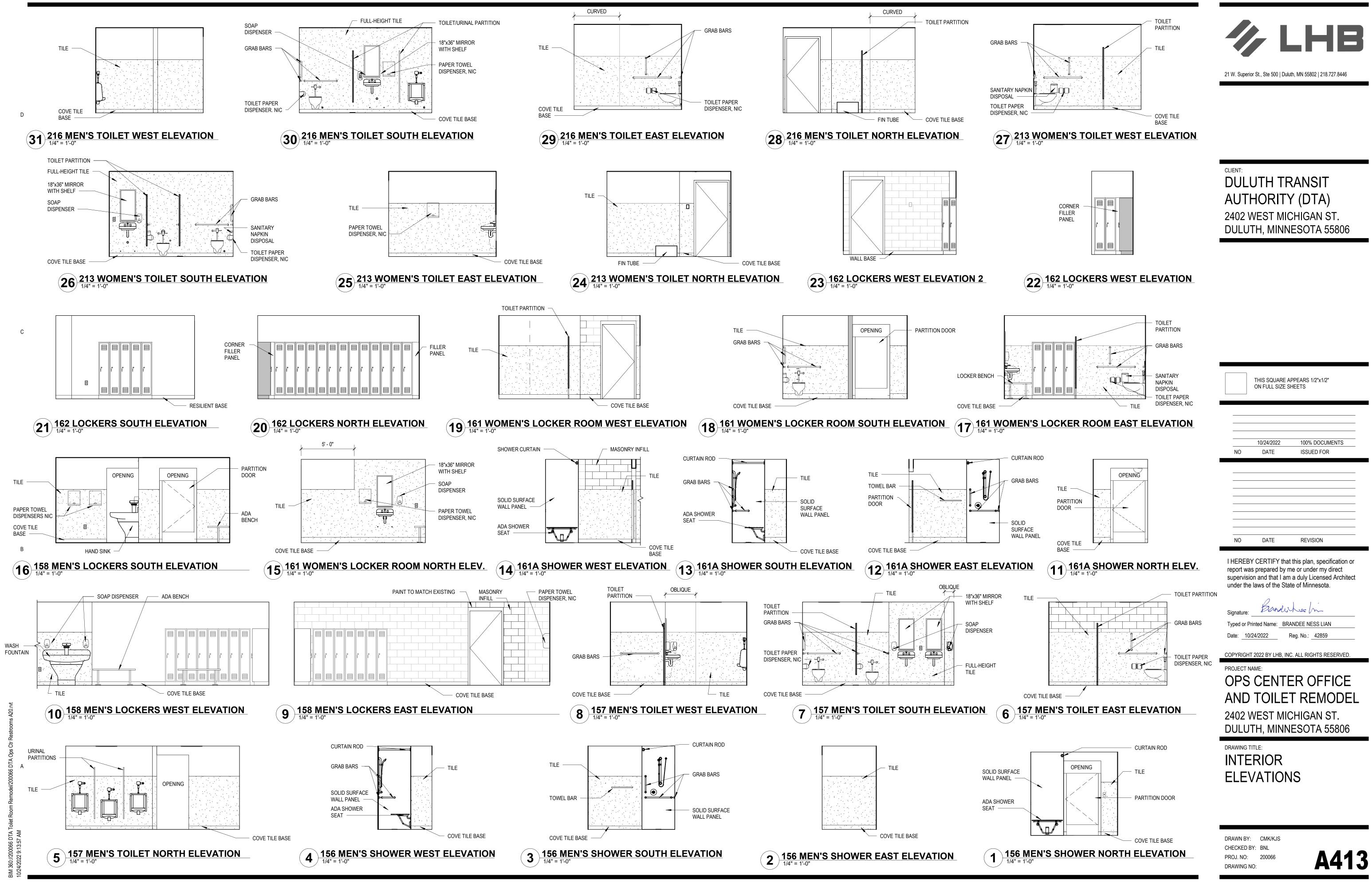
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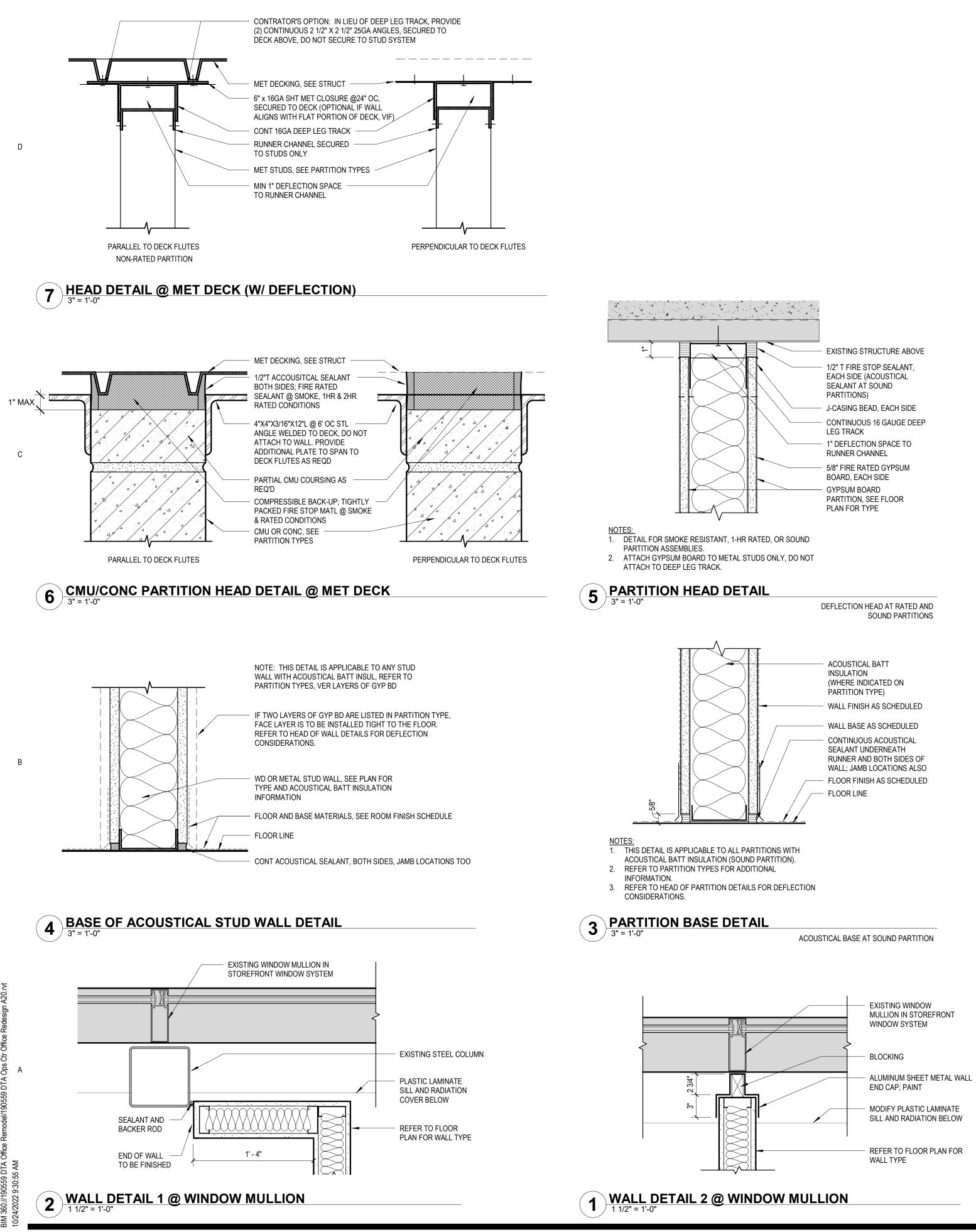
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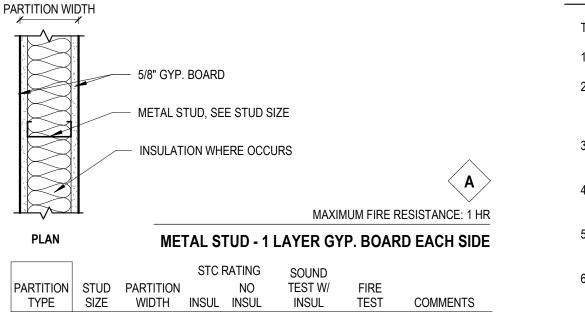
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PARTITION TYPE NOTES

APPROVE.



4 7/8" 49 40 SA-870717 U465

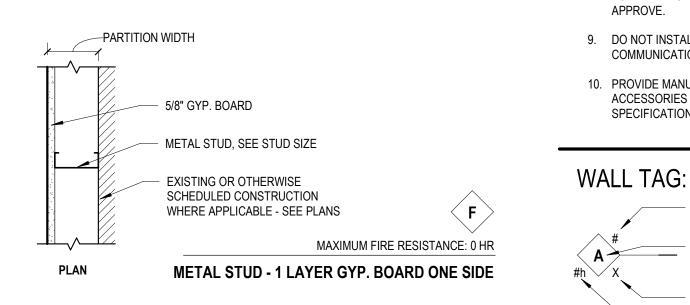
7 1/4" 49 40 SA-870717 U465

3 5/8"

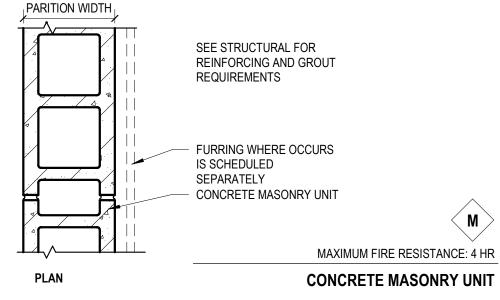
6"

A3

ACOUSTICAL BASE AT SOUND PARTITION



			STC F	RATING	SOUND		
PARTITION	STUD	PARTITION		NO	TEST W/	FIRE	
TYPE	SIZE	WIDTH	INSUL	INSUL	INSUL	TEST	COMMENTS
F1	1 5/8"	2 1/4"					
F2	2 1/2"	3 1/8"					
F3	3 5/8"	4 1/4"					



			STC F	RATING	SOUND		
PARTITION	STUD	PARTITION		NO	TEST W/	FIRE	
TYPE	SIZE	WIDTH	INSUL	INSUL	INSUL	TEST	COMMENTS
M8	7 5/8"	8"				U901	UP TO 4HR

THE FOLLOWING NOTES APPLY TO ALL WALL TYPES.

1. ALL METAL STUDS TO BE PLACED AT 24" O.C., U.N.O.

2. PARTITION STANDARDS SHOWN ARE CONSIDERED MINIMUM STANDARDS. WHERE CONDITIONS OF THE WORK EXCEED THE MANUFACTURER'S RECOMMENDED LIMITS, REINFORCE THE WALL OR PARTITION AS REQUIRED.

3. FOLLOW STRUCTURAL DETAILS, NOTES AND DRAWINGS FOR REINFORCING AND GROUTING IF THEY DIFFER FROM WHAT IS SHOWN IN THE WALL TYPE DETAILS.

4. WHERE A CLEAR DIMENSION IS NOTED OR REQUIRED, DIMENSION SHALL BE FROM FACE OF WALL FINISH.

5. WHERE PARTITIONS AND/ OR WALLS ALIGN WITH FURRING, POSITION FURRING TO MAINTAIN A FLUSH FINISH ALONG THE COPLANAR EDGES.

6. PROVIDE BLOCKING OR BACKER MATERIAL WITHIN WALL FOR ALL WALL MOUNTED EQUIPMENT SHOWN OR NOTED IN THE CONSTRUCTION DOCUMENTS.

7. AT ACOUSTICALLY RATED WALLS PROVIDE ACOUSTIC SEALANT AT ALL PENETRATIONS AND SOUND BATT INSULATION IN THE CAVITY.

8. INSTALLED WALL ASSEMBLIES MUST COMPLY WITH THE TESTED ASSEMBLY NOTED FOR THAT WALL TYPE. ONLY PRODUCTS NOTED IN THE TESTED ASSEMBLY ARE ACCEPTABLE FOR USE. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO SHOW COMPLIANCE WITH THE ASSEMBLY NOTED, OR PROPOSE AN EQUIVALENT TESTED ASSEMBLY USING THE DESIRED MATERIALS, FOR THE ARCHITECT, ENGINEER, AND BUILDING OFFICIAL TO REVIEW AND

9. DO NOT INSTALL ELECTRICAL BOXES, PHONE BOXES, OR OTHER COMMUNICATION / DATA BOXES BACK-TO-BACK IN THE SAME STUD SPACE.

10. PROVIDE MANUFACTURER APPROVED TERMINATIONS, FLASHINGS, AND ACCESSORIES FOR WATERPROOFING SYSTEMS. SEE APPROPRIATE SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION.

WALL TAG:	
-	SUPERSCRIPT MODIFIER
A #h X	TYPE SERIES
	SUBSCRIPT MODIFIER
	WALL RATING 1h, 2h, 3h, 4h, S(SMOKE) REFER TO LIFE SAFETY SHEETS FOR ADDITIONAL INFORMATION
PARTITION	SUBSCRIPT KEY:
A - ACOUSTICALLY RA	ATED - FILL WITH ACOUSTIC INSULATION
NO SUBSCRIPT - EXTI ACOUSTICAL INSULAT	END ENTIRE PARTITION TO STRUCTURE ABOVE - NO FION

PARTITION SUPERSCRIPT NOTES:

 \searrow

1. ADHERE ONE LAYER 5/8" GYP BOARD TO TAG SIDE



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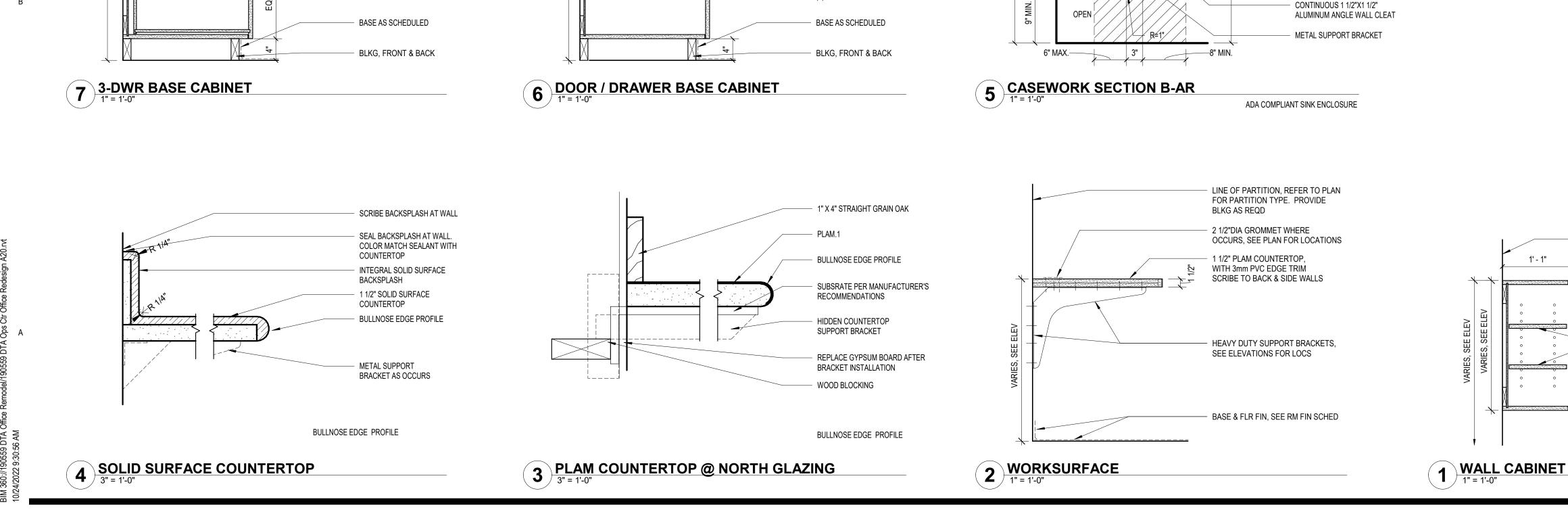
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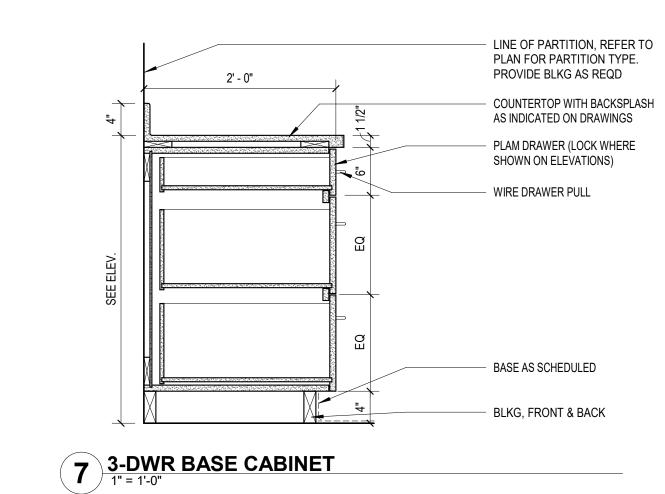
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NO	DATE	REVISION			
report w supervis	I HEREBY CERTIFY that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.				
Signature Typed or I		ANDEE NESS LIAN			
	0/24/2022	Reg. No.: <u>42859</u> C. ALL RIGHTS RESERVED.			
PROJECT NAME: OPS CENTER OFFICE AND TOILET REMODEL 2402 WEST MICHIGAN ST.					

DULUTH, MINNESOTA 55806

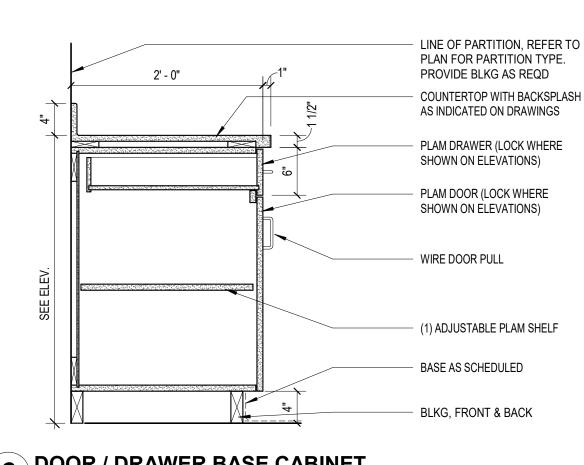
DRAWING TITLE: INTERIOR PARTITION **TYPES AND DETAILS**



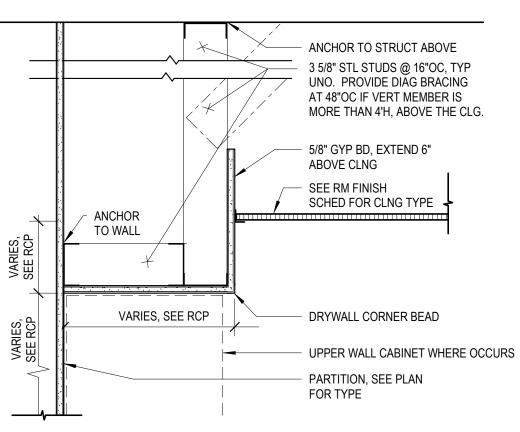


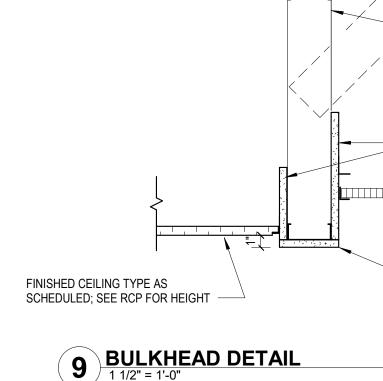


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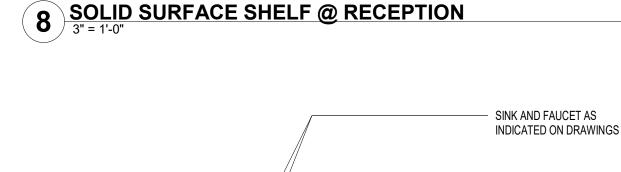




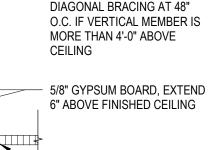




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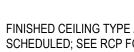


2' - 0" /



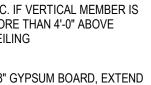
HEIGHT

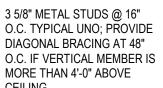
FINISHED CEILING TYPE AS SCHEDULED; SEE RCP FOR





CORNER BEAD TYP.





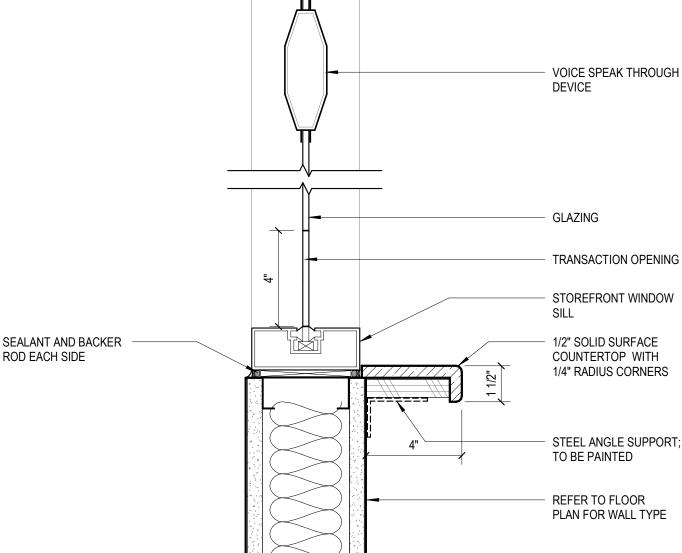
ANCHOR TO STRUCTURE

ABOVE



 \rightarrow

ROD EACH SIDE



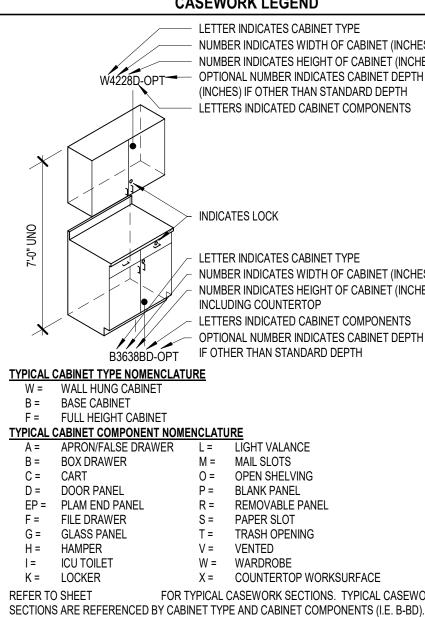
COUNTERTOP WITH

BACKSPLASH AS INDICATED ON DRAWINGS

- FIXED PLAM PANEL VALANCE

FINISHED PLAM END PANEL -MATCH BASE CABINET FINISH

REMOVABLE PLAM PANEL



Α. В. C. D.

3

CASEWORK LEGEND

CA	SEWU	JRK LEGEND
W4228D-OPT	NUMBE NUMBE OPTION (INCHES	R INDICATES CABINET TYPE R INDICATES WIDTH OF CABINET (INCHES) R INDICATES HEIGHT OF CABINET (INCHES) IAL NUMBER INDICATES CABINET DEPTH S) IF OTHER THAN STANDARD DEPTH SS INDICATED CABINET COMPONENTS
	INDICAT	TES LOCK
B3638BD-OPT	NUMBE NUMBE INCLUD LETTER OPTION	R INDICATES CABINET TYPE R INDICATES WIDTH OF CABINET (INCHES) R INDICATES HEIGHT OF CABINET (INCHES) ING COUNTERTOP IS INDICATED CABINET COMPONENTS IAL NUMBER INDICATES CABINET DEPTH (INCHES) ER THAN STANDARD DEPTH
YPE NOMENCLATU	<u>RE</u>	
ING CABINET BINET IGHT CABINET C OMPONENT NOMEN	ICLATUR	RE
ALSE DRAWER	L=	LIGHT VALANCE
WER		MAIL SLOTS
ANEL		OPEN SHELVING BLANK PANEL
		REMOVABLE PANEL
WER		PAPER SLOT
ANEL		TRASH OPENING
		VENTED
ET	-	WARDROBE
		COUNTERTOP WORKSURFACE
		ASEWORK SECTIONS. TYPICAL CASEWORK
		ASEWORK SECTIONS. ITPICAL CASEWORK

GENERAL CASEWORK NOTES

PLASTIC LAMINATE FILLER PANELS BETWEEN CASEWORK AND WALL SURFACE SHALL BE 1-1/2" MAXIMUM WIDTH.

ALL PLASTIC LAMINATE FASCIA OUTSIDE CORNERS SHALL BE MITERED. ALL PLASTIC LAMINATE BACKSPLASHES SHALL HAVE 1/4 INCH INTEGRAL PENCIL COVE.

ALL SOLID SURFACE BACKSPLASHES SHALL BE 3/4" THICK AND HAVE A 1/4 INCH INTEGRAL PENCIL COVE.

ALL INTERIOR SURFACES OF CASEWORK SHALL BE WHITE MELAMINE UNLESS NOTED OTHERWISE ON DETAIL.

REFER TO DETAIL 4 / A512 FOR TYPICAL SOLID SURFACE COUNTERTOP EDGE PROFILE.



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> 10/24/2022 DATE

NO

Signature:

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ON FULL SIZE SHEETS

NO DATE REVISION

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Handerhas m

Typed or Printed Name: BRANDEE NESS LIAN Date: 10/24/2022 Reg. No.: 42859

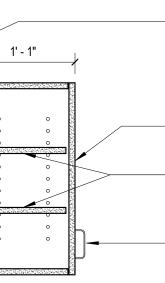
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PROJECT NAME: **OPS CENTER OFFICE** AND TOILET REMODEL 2402 WEST MICHIGAN ST. DULUTH, MINNESOTA 55806

DRAWING TITLE: **INTERIOR DETAILS**

DRAWN BY: CMK CHECKED BY: BNL PROJ. NO: 190559 DRAWING NO:





PROVIDE BLKG AS REQD

LINE OF PARTITION, REFER TO

PLAN FOR PARTITION TYPE.

WOOD VENEER DOOR

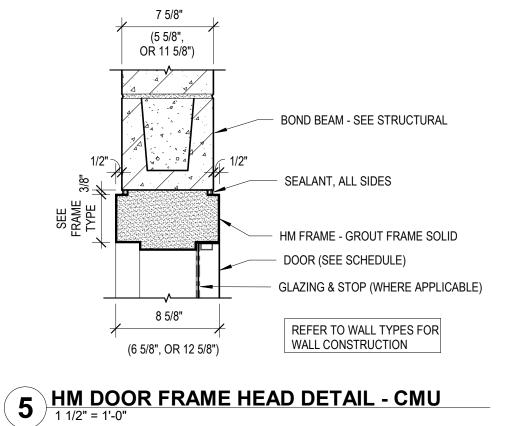
(2) ADJUSTABLE SHELVES-(1) SHELF IF CABINET IS 18"H OR LESS

DOOR PULL

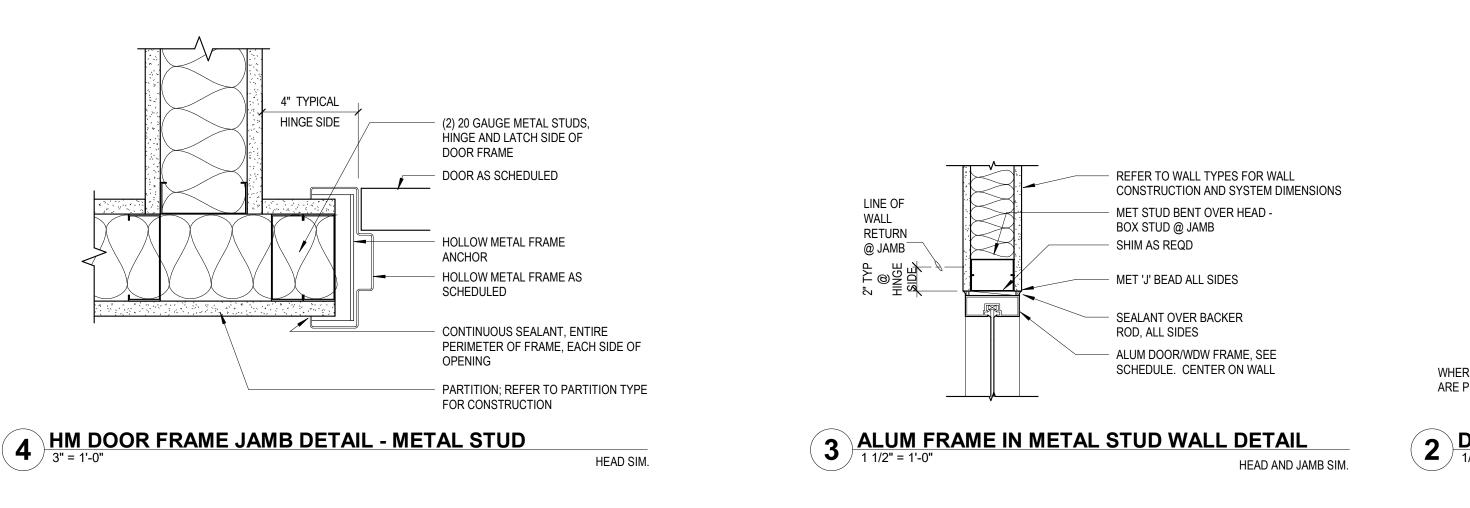


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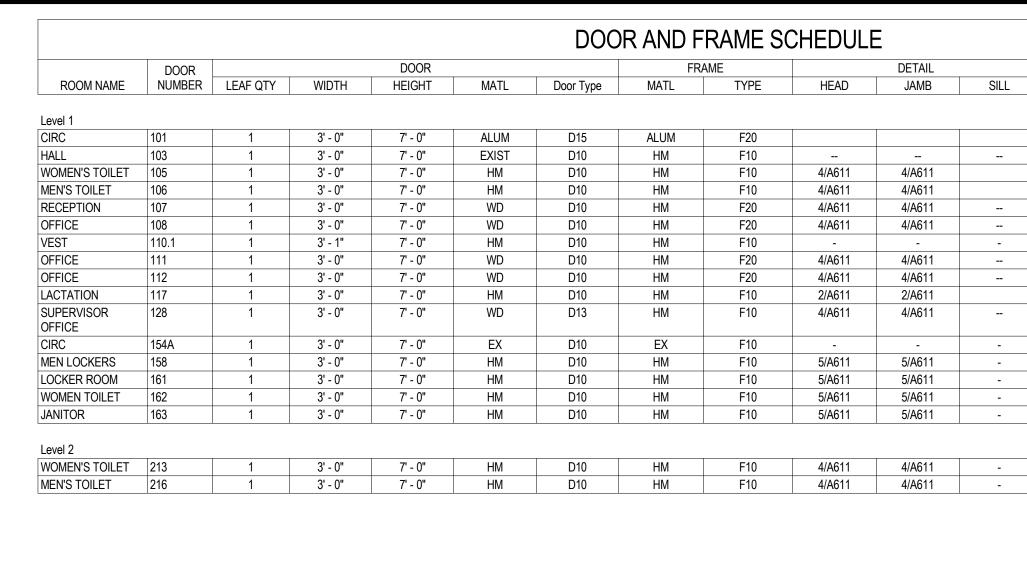
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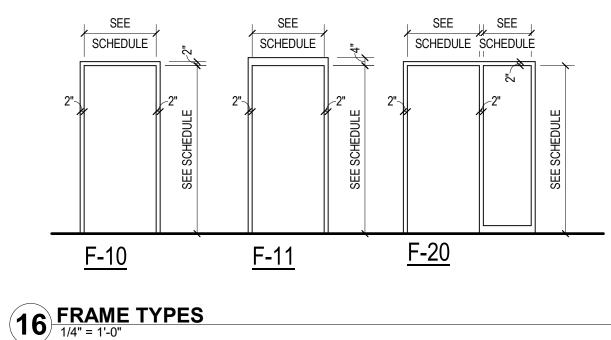


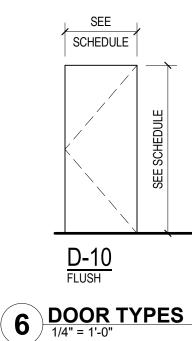
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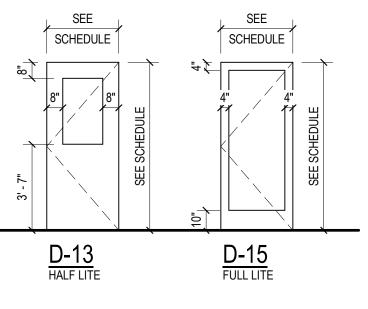


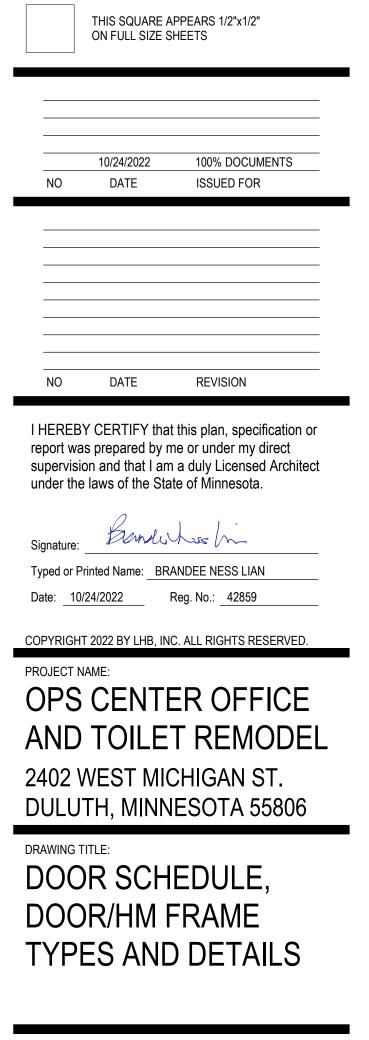
 GLAZING	FIRE RATING	HDWR GROUP	COMMENTS
 GLAZING	RATING	GROUP	COIVIIVIENTS
1/4" TEMP			3'-0" SIDELIGHT
		3	
		5	
		5	
1/4" TEMP		1	
1/4" TEMP		1	
-	-	-	CARD READER
1/4" TEMP		1	
1/4" TEMP		1	
		6	
1/4" TEMP		1	
 -	-	-	DOOR OPENER
-	-	1	
-	-	1	
-	-	5	
-	-	3	
-	-	5	
-	-	5	



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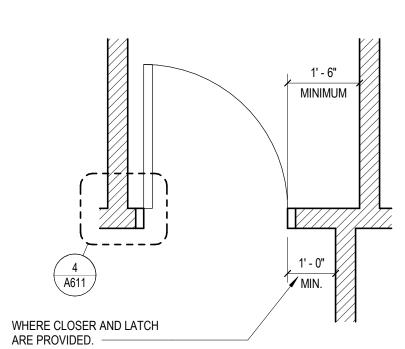
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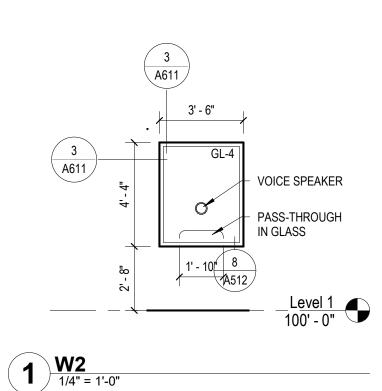


DRAWN BY:	СМК
CHECKED BY:	BNL
PROJ. NO:	19055
DRAWING NO:	





2 DOOR SWING DETAIL 1/2" = 1'-0"



FINISH MATERIALS

06 4100 - ARCHITECTURAL WOOD CASEWORK

PL1 PLASTIC LAMINATE 1

IFG:	PIONITE (PANOLAM)
INISH:	TEXTURED / SUEDE (SD)
TYLE:	HPL

- AG415 OLD FRIEND COLOR: LOC: COUNTERTOP
- PL2 PLASTIC LAMINATE 2
- NEVAMAR (PANOLAM) MFG: TEXTURED (T) FINISH: STYLE: HPL
- COLOR: S2086T JUTE LOC: RADIATION COVERS
- (TO MATCH EXIST)

06 6100 - SOLID POLYMER FABRICATIONS

SSF1 SOLID	SURFACE 1
MFG:	CORIAN
FINISH:	MATTE
STYLE:	CARBON AGGRE

CARBON AGGREGATE
TRANSACTION SHELF
(RECEPTION), KITCHENETTE
(DRIVERS LOUNGE)

08 1416 - FLUSH WOOD DOORS

С

Α

DR1 WOOD VE	NEER DOOR 1
MFG:	VT INDUSTRIES
FINISH:	FACTORY
STYLE:	MAPLE (CUT TO MATCH EXISTING)
COLOR:	SE18 SERENGETI
LOC:	INTERIOR

<u>09 3000 - TILING</u>

ACT1

COLOR:

GRID:

CT1 CERAMIC T	
MFG:	CAESAR CERAMICS L
TYPE:	PORCELAIN TILE, RE
STYLE:	STONEWAYS
SIZE:	12x24 INCH
THICK:	5/16 INCH (9mm)
COLOR:	VELVET
GROUT:	TBD
CT2 CERAMIC T	TILE 2
MFG:	CAESAR CERAMICS L
TYPE:	PORCELAIN TILE, RE
STVI F	STONEWAYS

STYLE: SIZE: STONEWAYS 3" x 24" BULLNOSE THICK: 5/16 INCH (9mm) COLOR: VELVET GROUT: TBD

09 5100 - SUSPENDED ACOUSTICAL CEILINGS

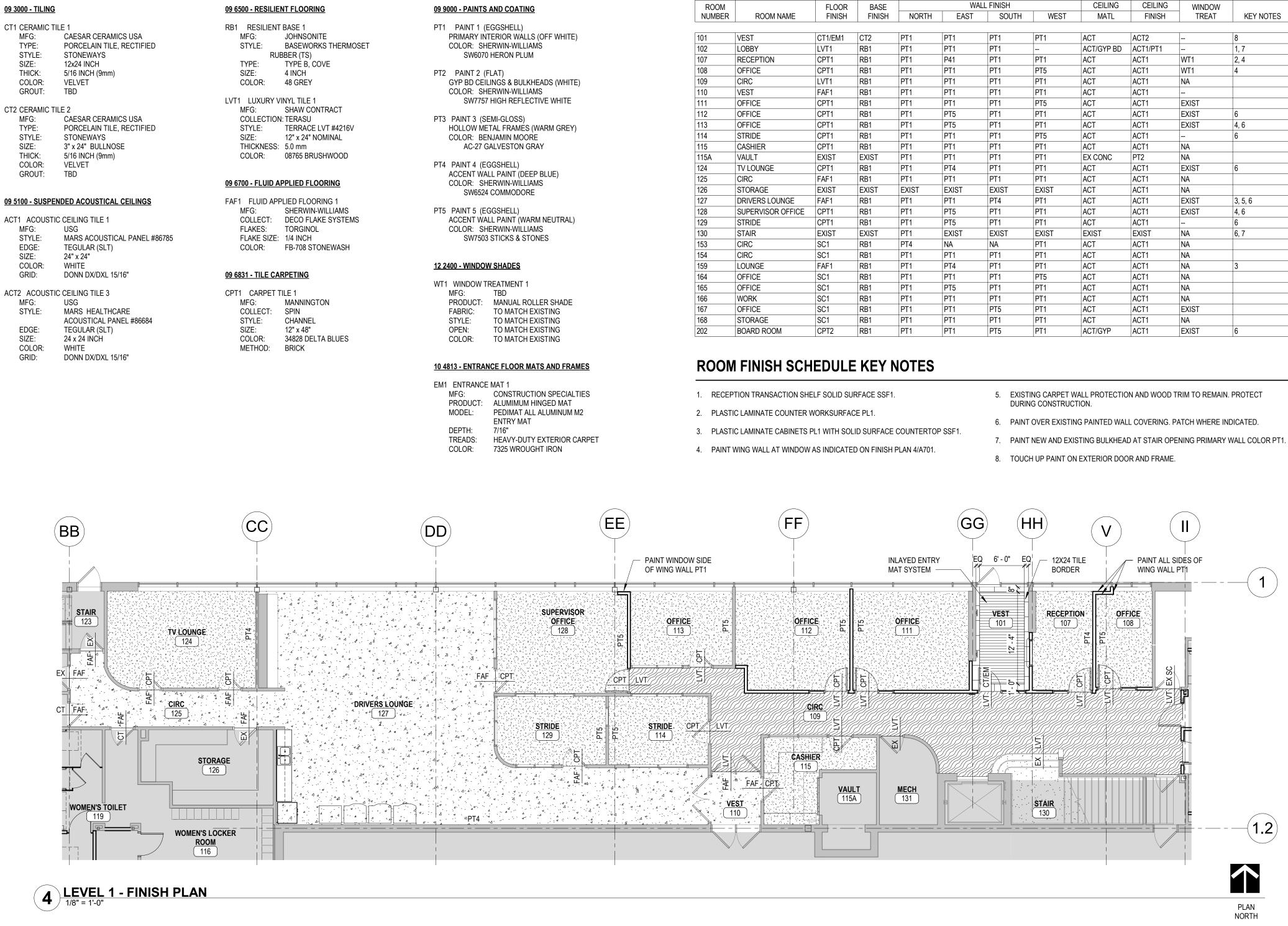
ACOUSTIC	CEILING TILE 1
/IFG:	USG
STYLE:	MARS ACOUSTICAL PANEL #86785
DGE:	TEGULAR (SLT)
SIZE:	24" x 24"
OLOR:	WHITE
GRID:	DONN DX/DXL 15/16"

MFG: USG STYLE: MARS HEALTHCARE EDGE: TEGULAR (SLT) SIZE:

31	RESILIENT I	BASE 1
	MFG:	JOHNSON
	STYLE:	BASEWO
	RUB	BER (TS)
	TYPE:	TYPE B, C
	SIZE:	4 INCH
	COLOR:	48 GREY
/T /	I LUXURY VII	
1		
	MFG:	SHAW CC
	COLLECTION:	TERASU
	STYLE:	TERRACE
	SIZE:	12" x 24" M
	THICKNESS:	5.0 mm
		09765 DDI

AF1	FLUID APP	LIED FLOC
Ν	IFG:	SHERWIN
С	OLLECT:	DECO FL/
F	LAKES:	TORGINO
F	LAKE SIZE:	1/4 INCH
С	OLOR:	FB-708 S1

II CARPEI	
MFG:	MANNIN
COLLECT:	SPIN
STYLE:	CHANNE
SIZE:	12" x 48"
COLOR:	34828 DE
METHOD:	BRICK





	WA	LL FINISH		CEILING	CEILING	WINDOW	
NORTH	EAST	SOUTH	WEST	MATL	FINISH	TREAT	KEY NOTES
			L				-
	PT1	PT1	PT1	ACT	ACT2		8
	PT1	PT1		ACT/GYP BD	ACT1/PT1		1, 7
	P41	PT1	PT1	ACT	ACT1	WT1	2, 4
	PT1	PT1	PT5	ACT	ACT1	WT1	4
	PT1	PT1	PT1	ACT	ACT1	NA	
	PT1	PT1	PT1	ACT	ACT1		
	PT1	PT1	PT5	ACT	ACT1	EXIST	
	PT5	PT1	PT1	ACT	ACT1	EXIST	6
	PT5	PT1	PT1	ACT	ACT1	EXIST	4, 6
	PT1	PT1	PT5	ACT	ACT1		6
	PT1	PT1	PT1	ACT	ACT1	NA	
	PT1	PT1	PT1	EX CONC	PT2	NA	
	PT4	PT1	PT1	ACT	ACT1	EXIST	6
	PT1	PT1	PT1	ACT	ACT1	NA	
ST	EXIST	EXIST	EXIST	ACT	ACT1	NA	
	PT1	PT4	PT1	ACT	ACT1	EXIST	3, 5, 6
	PT5	PT1	PT1	ACT	ACT1	EXIST	4, 6
	PT5	PT1	PT1	ACT	ACT1		6
	EXIST	EXIST	EXIST	EXIST	EXIST	NA	6, 7
ŀ	NA	NA	PT1	ACT	ACT1	NA	
	PT1	PT1	PT1	ACT	ACT1	NA	
	PT4	PT1	PT1	ACT	ACT1	NA	3
	PT1	PT1	PT5	ACT	ACT1	NA	
	PT5	PT1	PT1	ACT	ACT1	NA	
	PT1	PT1	PT1	ACT	ACT1	NA	
	PT1	PT5	PT1	ACT	ACT1	EXIST	
	PT1	PT1	PT1	ACT	ACT1	NA	
	PT1	PT5	PT1	ACT/GYP	ACT1	EXIST	6



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DRAWING NO:

FINISH MATERIALS

06 6100 - SOLID POLYMER FABRICATIONS

SSF2	SOLID SURFA	CF 2
0012	MFG:	CORIAN
	FINISH:	MATTE
	STYLE:	GLACIER WHITE
	THICKNESS:	1/4 INCH
	LOC:	SHOWER WALL PANELS

08 1416 - FLUSH WOOD DOORS

DR1	WOOD VENEER	R DOOR 1
	MFG:	VT INDUSTRIES
	FINISH:	FACTORY
	STYLE:	MAPLE (CUT TO MATCH EXISTING)
	COLOR:	SE18 SERENGETI
	LOC:	INTERIOR

<u>09 3000 - TILING</u>

CT1	CERAMIC TILE	Ξ1
	MFG:	CAESAR CERAMICS USA
	TYPE:	PORCELAIN TILE, RECTIFIED
	STYLE:	STONEWAYS
	SIZE:	12x24 INCH
	THICK:	5/16 INCH (9mm)
	COLOR:	VELVET
	GROUT:	TBD
	LOC:	FLOOR TILE @ ADMIN
		2
$\gamma T \gamma$		= 0

CT2 CERAMIC TILE 2 CAESAR CERAMICS USA MFG: TYPE: PORCELAIN TILE COVE BASE STYLE: STONEWAYS SIZE: 3x24 INCH BULLNOSE THICK: 5/16 INCH (9mm) COLOR: VELVET GROUT: TBD LOC: WALL BASE TILE @ ADMIN

CT3	CERAMIC T	ILE 3
	MFG:	LANDMARK CERAMICS
	TYPE:	PORCELAIN TILE, RECTIFIED
	STYLE:	ATTITUDE
	SIZE:	12x24 INCH
	THICK:	5/16 INCH (9mm)
	COLOR:	WARM SAND
	CDOUT	חפד

GROUT LOC: FLOOR TILE @ LOCKER RMS CT4 CERAMIC TILE 4 MFG: LANDMARK CERAMICS TYPE: PORCELAIN TILE, RECTIFIED STYLE: ATTITUDE COVE BASE SIZE: 6 X 12 INCH THICK: 5/16 INCH (9mm) COLOR: WARM SAND GROUT: TBD COVE BASE TILE w/ CT3 LOC:

CT5	CERAMIC TILE	Ξ5
	MFG:	LANDMARK CERAMICS
	TYPE:	PORCELAIN TILE, RECTIFIED
	STYLE:	ATTITUDE
	SIZE:	12x24 INCH
	THICK:	5/16 INCH (9mm)
	COLOR:	SIMPLY GREY
	GROUT:	TBD
	LOC:	WALL TILE @ LOCKER RMS

MFG: LANDMARK CERAMICS PORCELAIN TILE, RECTIFIED TYPE: STYLE: ATTITUDE SIZE: 3 X 24 INCH BULLNOSE THICK: 5/16 INCH (9mm) COLOR: WARM SAND GROUT: TBD

1

09 5100 - SUSPENDED ACOUSTICAL CEILINGS

ACT1 ACOUSTIC CEILING TILE 1 MFG: USG

IVII O.	039
STYLE:	MARS ACOUSTICAL PANEL #86785
EDGE:	TEGULAR (SLT)
SIZE:	24 x 24 INCH
COLOR:	WHITE
GRID:	DONN DX/DXL 15/16"

ACT2 ACOUSTIC CEILING TILE 3 MFG: 1160

INFG.	030
STYLE:	MARS HEALTHCARE
	ACOUSTICAL PANEL #8668
EDGE:	TEGULAR (SLT)
SIZE:	24 x 24 INCH
COLOR:	WHITE
GRID:	DONN DX/DXL 15/16"

09 9000 - PAINTS AND COATINGS

PT1 PAINT 1 (EGGSHELL) PRIMARY INTERIOR WALLS (OFF WHITE) COLOR: SHERWIN-WILLIAMS SW6070 HERON PLUM

PT2 PAINT 2 (FLAT) GYP BD CEILINGS & BULKHEADS (WHITE) COLOR: SHERWIN-WILLIAMS SW7757 HIGH REFLECTIVE WHITE

PT3 PAINT 3 (SEMI-GLOSS) HOLLOW METAL FRAMES (WARM GREY) COLOR: BENJAMIN MOORE AC-27 GALVESTON GRAY

PT4 PAINT 4 (EGGSHELL) ACCENT WALL PAINT (DEEP BLUE) COLOR: SHERWIN-WILLIAMS SW6524 COMMODORE

PT5 PAINT 5 (EGGSHELL) ACCENT WALL PAINT (WARM NEUTRAL) COLOR: SHERWIN-WILLIAMS SW7503 STICKS & STONES

PT6 PAINT 6 (SEMI-GLOSS) TOILET ROOM WALL PAINT (OFF WHITE) COLOR: SHERWIN-WILLIAMS SW6070 HERON PLUM

09 9600 - HIGH PERFORMANCE COATINGS

PT7 PAINT 7 (HIGH PERFORMANCE) SHOWER CEILINGS (CEILING WHITE)

10 2113.19 - PLASTIC TIOLET COMPARTMENTS

TP1	TOILET PARTITI	ONS 1
	MFG:	SCRANTON PRODUCTS
	PRODUCT:	HINY HIDERS HPDE PARTITION
	COLOR:	NICKEL
	FINISH:	HAMMERED (H)

ONS .



105

106

120

122

154A

156

161

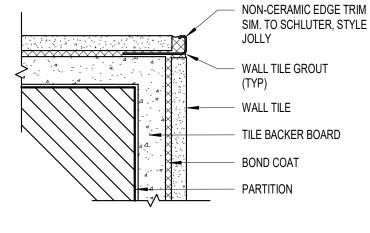
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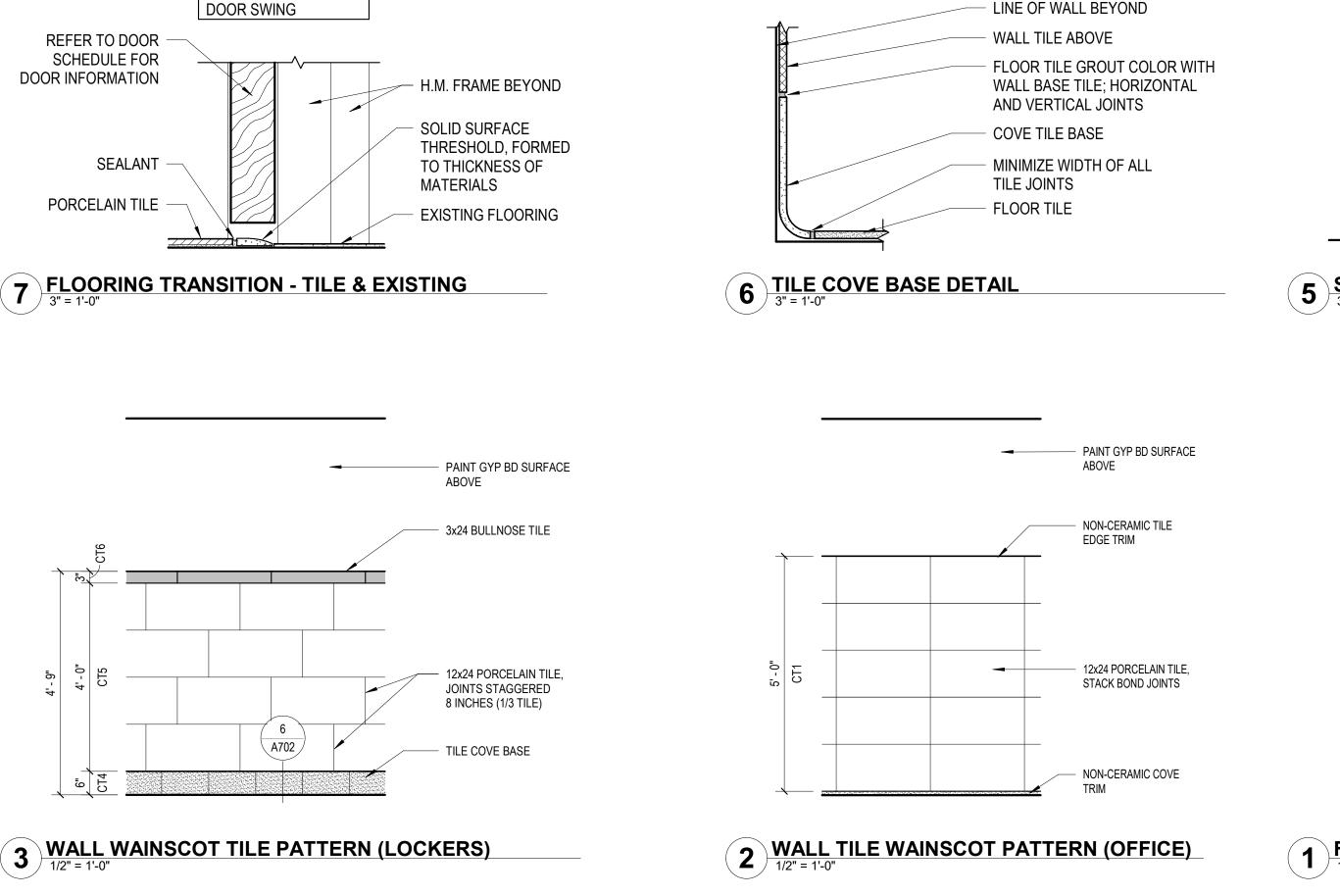
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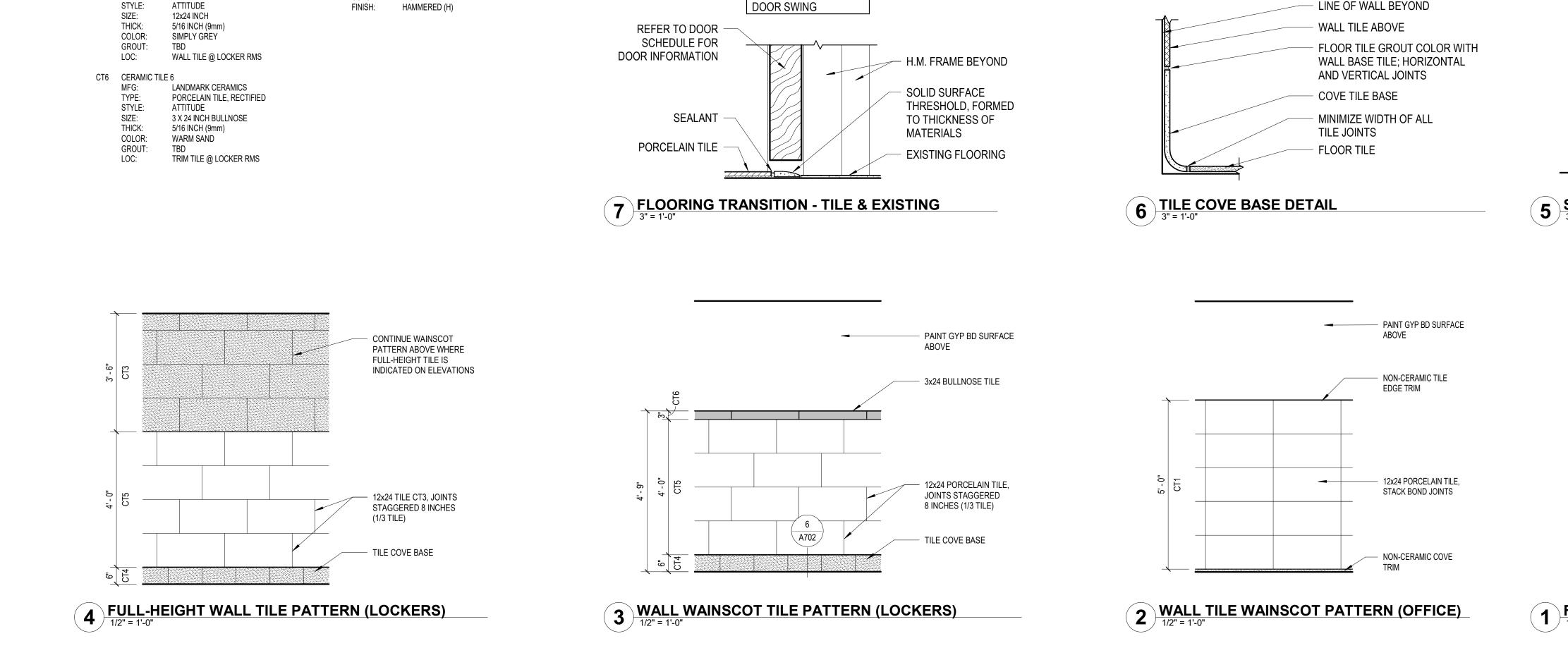
161A





SEALANT





2

	ROO			JLE - TOIL	ETS AND	LOCKERS			
				WAI	L FINISH		CEILING	CEILING	
ROOM NAME	FLOOR FINISH	BASE FINISH	NORTH	EAST	SOUTH	WEST	MATL	FINISH	COMMENTS
WOMEN'S TOILET	CT1	ALUM TRIM	CT1/PT6	CT1/PT6	CT1/PT6	CT1/PT6	ACT	ACT2	1, 5
MEN'S TOILET	CT1	ALUM TRIM	CT1/PT6	CT5/CT6/PT6	CT1/PT6	CT1/PT6	ACT	ACT2	1, 5
WOMEN'S LOCKER ROOM	CT3	CT4	EX/PT6	EX/PT6	EX/PT6	EX/PT6	ACT	ACT1	2
LACTATION	CT3	CT6	PT6	PT7	PT6	PT6	ACT	ACT1	2
WOMEN'S SHOWER	CT3	CT4	CT5/CT6/PT6	CT5/CT6/PT6	CT5/CT6/PT6	CT5/CT6/PT6	GYP BD	PT7	2, 3, 6
WOMEN'S TOILET	CT3	CT4	CT5/CT6/PT6	CT5/CT6/PT6	CT5/CT6/PT6	CT5/CT6	ACT	ACT2	2, 6
MEN'S TOILET	CT3	CT4	CT5/CT6/PT6	CT5/CT6/PT6	CT5/CT6/PT6	CT5/CT6/PT6	ACT	ACT2	2, 6
MEN'S LOCKER ROOM	CT3	CT6	PT6	PT6	PT6	PT6	ACT	ACT2	2
MEN'S SHOWER	CT3	CT4	CT5/CT6/PT6	CT5/CT6/PT6	CT5/CT6/PT6	CT5/CT6/PT6	GYP BD	PT7	2, 3, 6
HALL	SC1	RB1	EX	PT6	EX	PT6	ACT	ACT1	
MEN'S SHOWER	CT3	CT4	CT5/CT6/PT6	CT5/CT6/PT6	CT5/CT6/PT6	CT5/CT6/PT6	GYP BD	PT8	2, 3, 6
MEN'S TOILET	CT3	CT4	CT5/CT6/PT6	CT5/CT6/PT6	CT5/CT6/PT6	CT5/CT6/PT6	ACT	ACT2	2, 6
MEN'S LOCKERS	CT3	CT4	PT6	PT6	CT5/CT6/PT6	CT5/CT6/PT6/PT6	ACT	ACT2	2, 6, 7
WOMEN'S LOCKER ROOM	CT3	CT4	CT5/CT6/PT6	CT5/CT6/PT6	CT5/CT6/PT6	CT5/CT6/PT6	ACT	ACT2	2, 6
SHOWER	CT3	CT4	CT5/CT6/PT6	CT5/CT6/PT6	CT5/CT6/PT6	CT5/CT6/PT6	GYP BD	PT7	2, 3, 6
LOCKERS	CT3	CT4	CT5/CT6/PT6	PT6	PT6	PT6	ACT	ACT1	2, 6, 7
JANITOR	EX	EX/RB	PT6/EX	EX	EX	EX	EXP	EX	7
WOMEN'S TOILET	CT1	ALUM TRIM	CT1/PT6	CT1/PT6	CT1/PT6	CT1/PT6	ACT	ACT2	1, 5
MEN'S TOILET	CT1	ALUM TRIM	CT1/PT6	CT1/PT6	CT1/PT6	CT1/PT6	ACT	ACT2	1, 5

ROOM FINISH SCHEDULE KEY NOTES

- 1. USE FLOOR TILE PATTERN 1; SEE FINISH DETAIL 1/A701 AND FINISH PLAN 5/A701.
- 2. USE FLOOR TILE PATTERN 2; SEE FINISH DETAIL 1/A702.
- 3. SOLID SURFACE SSF2 AS WALL PANELS IN SHOWER UNIT; SEE FINISH DETAIL 5/A702.
- 4. SEE SHEET A7.01 FOR OTHER FINISH WORK.
- 5. WALL TILE WAINSCOT PATTERN PER FINISH DETAIL 2/A701.
- 6. WALL TILE WAINSCOT PATTERN PER FINISH DETAIL 3/A701, WHERE INDICATED; FULL HEIGHT TILE PER FINISH DETAIL 4/A702 BEHIND SINKS AS INDICATED ON ELEVATIONS.
- 7. USE NON-CERAMIC TRIM AT EXPOSED TOP EDGE OF COVE BASE TILE CT4 ON WALLS WITHOUT TILE WAINSCOT.

GENERAL FINISH NOTES

- INSTRUCTIONS. B. SEE ADDITIONAL NOTES ON OTHER SHEETS.
- D. PAINTING AND CONTRACTORS APPLICATION OF WALL AND FLOOR FINISH CONSTITUTES ACCEPTANCE OF WALL CONDITIONS AND RESPONSIBILITY FOR IMPERFECTION CORRECTION.
- E. CEILING AND SOFFIT HEIGHTS SHOWN ON REFLECTED CEILING PLAN.
- F. ALL WALL PAINT TO BE SEMI-GLOSS FINISH, UNO.
- H. ALL EXPOSED SURFACES OF GYP BD CEILINGS, SOFFITS AND BULKHEADS TO BE PAINTED COLOR PT2 EPOXY FINISH.
- DETAIL 7 / A702, UNO.
- OF PANELS.
- M. TILE COVE BASE PER DETAIL 6 / A702 WITH ALL WALL TILE AND ALL FLOOR TILE. USE COVE BASE ON WALLS WITHOUT WALL TILE, WITH METAL TRIM CAP SIMILAR TO CORNER TRIM TO FINISH OFF EXPOSED EDGE OF BASE TILE.

SIMILAR FOR OPPOSITE

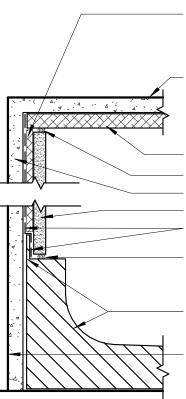
A. SEE SPECIFICATIONS MANUAL FOR TECHNICAL SPECIFICATIONS AND INSTALLATION

- C. ALL PAINTED STEEL STRUCTURE ON WALLS, METAL GRILLS, LOUVERS, ETC., AND ALL EXPOSED DUCTWORK, TO BE FINISHED TO MATCH THE SURFACE ON WHICH THEY ARE INSTALLED, OR THE CEILING, UNO.
- G. ALL INTERIOR HM DOORS AND DOOR FRAMES TO BE PAINTED COLOR PT6.
- I. TRANSITION ALL FLOORING MATERIALS OR COLORS UNDER CENTER OF DOORS SIM.
- J. SIGN LOCATIONS PER DETAIL XXX AND PER SECTION 10 1400.
- K. ALL OUTSIDE CORNERS OF WALL TILE TO HAVE METAL TRIM PER DETAIL 8 / A702. EXPOSED EDGES OF WALL TILE SIMILAR.
- L. SHOWER WALL TO BE FULL SHEET OF SOLID SURFACE MATERIAL SSF2 PER DETAIL 5 / A702. USE MILDEW-RESISTANT SEALANT IN ALL CORNER JOINTS AND EDGES



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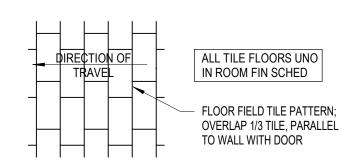
PROVIDE ADDITIONAL BACKING FOR WALL PANELS AS NEEDED TO PROPERLY OVERLAP FLANGE OF SHOWER PAN LINE OF CEILING FRAMING

HIGH-PERFORMANCE COATING SEALANT TILE BACKER BOARD 1/4" SOLID SURFACE PANEL WATERPROOFING MEMBRANE SEALANT

SHOWER PAN WITH FLANGE

LINE OF FRAMING, SEE PLAN FOR PARTITION TYPE

5 SHOWER DETAIL AT WALLS



1 FLOOR TILE PATTERN 2

10/24/2022 100% DOCUMENTS DATE ISSUED FOR NO NO DATE REVISION I HEREBY CERTIFY that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota. Danderhose In Signature: Typed or Printed Name: BRANDEE NESS LIAN Date: 10/24/2022 Reg. No.: 42859 COPYRIGHT 2022 BY LHB, INC. ALL RIGHTS RESERVED. PROJECT NAME: **OPS CENTER OFFICE**

THIS SQUARE APPEARS 1/2"x1/2"

ON FULL SIZE SHEETS

AND TOILET REMODEL 2402 WEST MICHIGAN ST. DULUTH, MINNESOTA 55806

DRAWING TITLE: **TOILET AND LOCKER ROOM FINISH** SCHEDULE AND **FINISH DETAILS**



FINISH MATERIALS

06 6100 - SOLID POLYMER FABRICATIONS

SSF2	SOLID SURFA	CE 2
	MFG:	CORIAN
	FINISH:	MATTE
	STYLE:	GLACIER WHITE
	THICKNESS:	1/4 INCH
	LOC:	SHOWER WALL PANELS

08 1416 - FLUSH WOOD DOORS

DR1	WOOD VENEER	R DOOR 1
	MFG:	VT INDUSTRIES
	FINISH:	FACTORY
	STYLE:	MAPLE (CUT TO MATCH EXISTING)
	COLOR:	SE18 SERENGETI
	LOC:	INTERIOR

<u>09 3000 - TILING</u>

CT1	CERAMIC TIL	E1
	MFG: TYPE: STYLE:	CAESAR CERAMICS USA PORCELAIN TILE, RECTIFIED STONEWAYS
	size: Thick: Color: Grout: Loc:	12x24 INCH 5/16 INCH (9mm) VELVET TBD FLOOR TILE @ ADMIN
CT2	CERAMIC TIL	E 2

CAESAR CERAMICS USA MFG: PORCELAIN TILE COVE BASE TYPE: STYLE: STONEWAYS SIZE: 3x24 INCH BULLNOSE THICK: 5/16 INCH (9mm) COLOR: VELVET GROUT: TBD LOC: WALL BASE TILE @ ADMIN

CT3	CERAMIC TI	LE 3
	MFG:	LANDMARK CERAMICS
	TYPE:	PORCELAIN TILE, RECTIFIED
	STYLE:	ATTITUDE
	SIZE:	12x24 INCH
	THICK:	5/16 INCH (9mm)
	COLOR:	WARM SAND
	GROUT:	TBD
	LOC:	FLOOR TILE @ LOCKER RMS

FLOOR TILE @ LOCKER RMS CT4 CERAMIC TILE 4 MFG: LANDMARK CERAMICS TYPE: PORCELAIN TILE, RECTIFIED STYLE: ATTITUDE COVE BASE SIZE: 6 X 12 INCH THICK: 5/16 INCH (9mm) COLOR: WARM SAND GROUT: TBD COVE BASE TILE w/ CT3 LOC:

CT5	CERAMIC TILE	5
	MFG:	LANDMARK CERAMICS
	TYPE:	PORCELAIN TILE, RECTIFIED
	STYLE:	ATTITUDE
	SIZE:	12x24 INCH
	THICK:	5/16 INCH (9mm)
	COLOR:	SIMPLY GREY
	GROUT:	TBD
	LOC:	WALL TILE @ LOCKER RMS

CT6 CERAMIC TILE 6 LANDMARK CERAMICS PORCELAIN TILE, RECTIFIED MFG: TYPE: STYLE: ATTITUDE SIZE: 3 X 24 INCH BULLNOSE THICK: 5/16 INCH (9mm) COLOR: WARM SAND GROUT: TBD LOC: TRIM TILE @ LOCKER RMS

09 5100 - SUSPENDED ACOUSTICAL CEILINGS

ACT1 ACOUSTIC CEILING TILE 1 MFG: USG STYLE: MARS ACOUSTICAL PANEL #86785 EDGE

EDGE:	TEGULAR (SLT)
SIZE:	24 x 24 INCH
COLOR:	WHITE
GRID:	DONN DX/DXL 15/16"

ACT2 ACOUSTIC CEILING TILE 3 MFG: USG STYLE: MARS HEALTHCARE ACOUSTICAL PANEL #86684 EDGE: TEGULAR (SLT) 24 x 24 INCH SIZE: COLOR: WHITE

DONN DX/DXL 15/16"

09 9000 - PAINTS AND COATINGS

GRID:

PT1 PAINT 1 (EGGSHELL) PRIMARY INTERIOR WALLS (OFF WHITE) COLOR: SHERWIN-WILLIAMS SW6070 HERON PLUM

PT2 PAINT 2 (FLAT) GYP BD CEILINGS & BULKHEADS (WHITE) COLOR: SHERWIN-WILLIAMS SW7757 HIGH REFLECTIVE WHITE

PT3 PAINT 3 (SEMI-GLOSS) HOLLOW METAL FRAMES (WARM GREY) COLOR: BENJAMIN MOORE AC-27 GALVESTON GRAY

PT4 PAINT 4 (EGGSHELL) ACCENT WALL PAINT (DEEP BLUE) COLOR: SHERWIN-WILLIAMS SW6524 COMMODORE

PT5 PAINT 5 (EGGSHELL) ACCENT WALL PAINT (WARM NEUTRAL) COLOR: SHERWIN-WILLIAMS SW7503 STICKS & STONES

PT6 PAINT 6 (SEMI-GLOSS) TOILET ROOM WALL PAINT (OFF WHITE) COLOR: SHERWIN-WILLIAMS SW6070 HERON PLUM

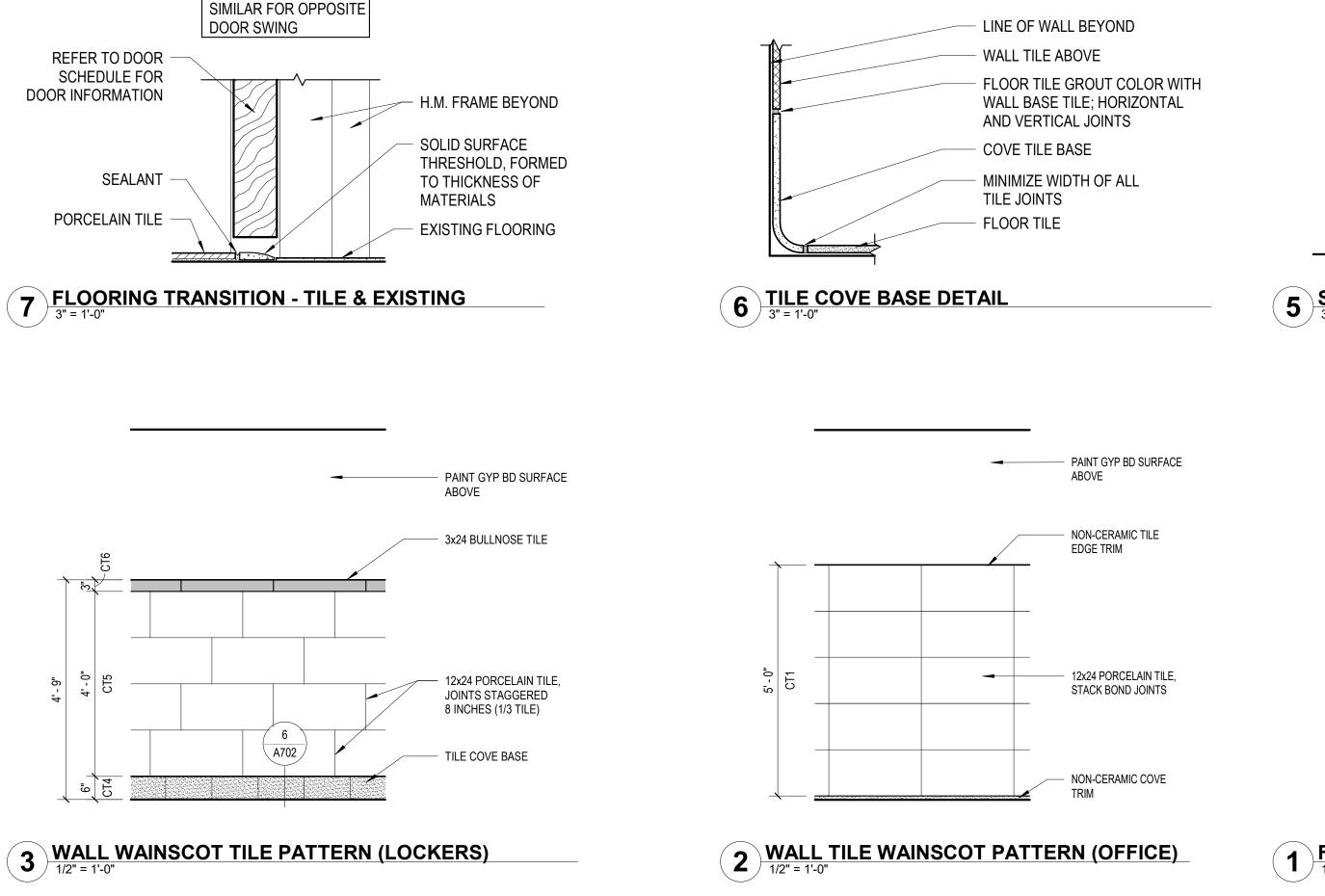
09 9600 - HIGH PERFORMANCE COATINGS

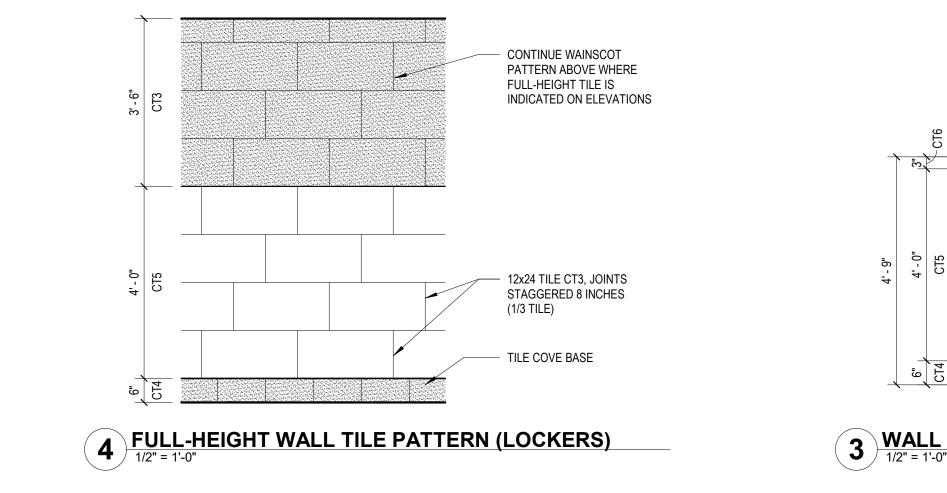
PT7 PAINT 7 (HIGH PERFORMANCE) SHOWER CEILINGS (CEILING WHITE)

10 2113.19 - PLASTIC TIOLET COMPARTMENTS

P1 TOILET PA	RTITIONS 1	
MFG:	SCRAN	ITON PRODUCTS
PRODU	CT: HINY H	IDERS HPDE PARTITION
COLOR	NICKEI	_
FINISH:	HAMMI	ERED (H)
	MFG: PRODU COLOR:	PRODUCT: HINY H COLOR: NICKEI

ONS





1

		ROO	M FINISH		ULE - TOIL	ETS AND	LOCKERS			
ROOM					WA	LL FINISH		CEILING	CEILING	
NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	NORTH	EAST	SOUTH	WEST	MATL	FINISH	COMMENTS
105	WOMEN'S TOILET	CT1	ALUM TRIM	CT1/PT6	CT1/PT6	CT1/PT6	CT1/PT6	ACT	ACT2	1, 5
106	MEN'S TOILET	CT1	ALUM TRIM	CT1/PT6	CT5/CT6/PT6	CT1/PT6	CT1/PT6	ACT	ACT2	1, 5
116	WOMEN'S LOCKER ROOM	CT3	CT4	EX/PT6	EX/PT6	EX/PT6	EX/PT6	ACT	ACT1	2
117	LACTATION	CT3	CT6	PT6	PT7	PT6	PT6	ACT	ACT1	2
118	WOMEN'S SHOWER	CT3	CT4	CT5/CT6/PT6	CT5/CT6/PT6	CT5/CT6/PT6	CT5/CT6/PT6	GYP BD	PT7	2, 3, 6
119	WOMEN'S TOILET	CT3	CT4	CT5/CT6/PT6	CT5/CT6/PT6	CT5/CT6/PT6	CT5/CT6	ACT	ACT2	2, 6
120	MEN'S TOILET	CT3	CT4	CT5/CT6/PT6	CT5/CT6/PT6	CT5/CT6/PT6	CT5/CT6/PT6	ACT	ACT2	2, 6
121	MEN'S LOCKER ROOM	CT3	CT6	PT6	PT6	PT6	PT6	ACT	ACT2	2
122	MEN'S SHOWER	CT3	CT4	CT5/CT6/PT6	CT5/CT6/PT6	CT5/CT6/PT6	CT5/CT6/PT6	GYP BD	PT7	2, 3, 6
154A	HALL	SC1	RB1	EX	PT6	EX	PT6	ACT	ACT1	
156	MEN'S SHOWER	CT3	CT4	CT5/CT6/PT6	CT5/CT6/PT6	CT5/CT6/PT6	CT5/CT6/PT6	GYP BD	PT8	2, 3, 6
157	MEN'S TOILET	CT3	CT4	CT5/CT6/PT6	CT5/CT6/PT6	CT5/CT6/PT6	CT5/CT6/PT6	ACT	ACT2	2, 6
158	MEN'S LOCKERS	CT3	CT4	PT6	PT6	CT5/CT6/PT6	CT5/CT6/PT6/PT6	ACT	ACT2	2, 6, 7
161	WOMEN'S LOCKER ROOM	CT3	CT4	CT5/CT6/PT6	CT5/CT6/PT6	CT5/CT6/PT6	CT5/CT6/PT6	ACT	ACT2	2, 6
161A	SHOWER	CT3	CT4	CT5/CT6/PT6	CT5/CT6/PT6	CT5/CT6/PT6	CT5/CT6/PT6	GYP BD	PT7	2, 3, 6
162	LOCKERS	CT3	CT4	CT5/CT6/PT6	PT6	PT6	PT6	ACT	ACT1	2, 6, 7
163	JANITOR	EX	EX/RB	PT6/EX	EX	EX	EX	EXP	EX	7
213	WOMEN'S TOILET	CT1	ALUM TRIM	CT1/PT6	CT1/PT6	CT1/PT6	CT1/PT6	ACT	ACT2	1, 5
216	MEN'S TOILET	CT1	ALUM TRIM	CT1/PT6	CT1/PT6	CT1/PT6	CT1/PT6	ACT	ACT2	1, 5

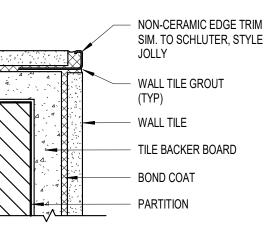
ROOM FINISH SCHEDULE KEY NOTES

- 1. USE FLOOR TILE PATTERN 1; SEE FINISH DETAIL 1/A701 AND FINISH PLAN 5/A701.
- 2. USE FLOOR TILE PATTERN 2; SEE FINISH DETAIL 1/A702.
- 3. SOLID SURFACE SSF2 AS WALL PANELS IN SHOWER UNIT; SEE FINISH DETAIL 5/A702.
- 4. SEE SHEET A7.01 FOR OTHER FINISH WORK.
- 5. WALL TILE WAINSCOT PATTERN PER FINISH DETAIL 2/A701.
- 6. WALL TILE WAINSCOT PATTERN PER FINISH DETAIL 3/A701, WHERE INDICATED; FULL HEIGHT TILE PER FINISH DETAIL 4/A702 BEHIND SINKS AS INDICATED ON ELEVATIONS.
- 7. USE NON-CERAMIC TRIM AT EXPOSED TOP EDGE OF COVE BASE TILE CT4 ON WALLS WITHOUT TILE WAINSCOT.

GENERAL FINISH NOTES

- INSTRUCTIONS. B. SEE ADDITIONAL NOTES ON OTHER SHEETS.
- D. PAINTING AND CONTRACTORS APPLICATION OF WALL AND FLOOR FINISH CONSTITUTES ACCEPTANCE OF WALL CONDITIONS AND RESPONSIBILITY FOR IMPERFECTION CORRECTION.
- E. CEILING AND SOFFIT HEIGHTS SHOWN ON REFLECTED CEILING PLAN.
- F. ALL WALL PAINT TO BE SEMI-GLOSS FINISH, UNO.
- H. ALL EXPOSED SURFACES OF GYP BD CEILINGS, SOFFITS AND BULKHEADS TO BE PAINTED COLOR PT2 EPOXY FINISH.
- DETAIL 7 / A702, UNO.

- L. SHOWER WALL TO BE FULL SHEET OF SOLID SURFACE MATERIAL SSF2 PER DETAIL 5 / A702. USE MILDEW-RESISTANT SEALANT IN ALL CORNER JOINTS AND EDGES OF PANELS.
- M. TILE COVE BASE PER DETAIL 6 / A702 WITH ALL WALL TILE AND ALL FLOOR TILE. USE COVE BASE ON WALLS WITHOUT WALL TILE, WITH METAL TRIM CAP SIMILAR TO CORNER TRIM TO FINISH OFF EXPOSED EDGE OF BASE TILE.



8 FINISH DETAIL - TILE CORNERS

A. SEE SPECIFICATIONS MANUAL FOR TECHNICAL SPECIFICATIONS AND INSTALLATION

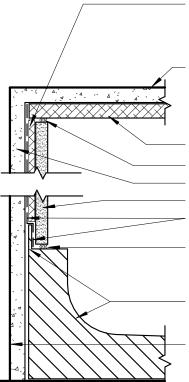
- C. ALL PAINTED STEEL STRUCTURE ON WALLS, METAL GRILLS, LOUVERS, ETC., AND ALL EXPOSED DUCTWORK, TO BE FINISHED TO MATCH THE SURFACE ON WHICH THEY ARE INSTALLED, OR THE CEILING, UNO.
- G. ALL INTERIOR HM DOORS AND DOOR FRAMES TO BE PAINTED COLOR PT6.
- I. TRANSITION ALL FLOORING MATERIALS OR COLORS UNDER CENTER OF DOORS SIM.
- J. SIGN LOCATIONS PER DETAIL XXX AND PER SECTION 10 1400.
- K. ALL OUTSIDE CORNERS OF WALL TILE TO HAVE METAL TRIM PER DETAIL 8/ A702. EXPOSED EDGES OF WALL TILE SIMILAR.



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WALL PANELS AS NEEDED TO PROPERLY OVERLAP FLANGE OF SHOWER PAN LINE OF CEILING FRAMING

PROVIDE ADDITIONAL BACKING FOR

HIGH-PERFORMANCE COATING SEALANT TILE BACKER BOARD 1/4" SOLID SURFACE PANEL WATERPROOFING MEMBRANE SEALANT

SHOWER PAN WITH FLANGE

LINE OF FRAMING, SEE PLAN FOR PARTITION TYPE

5 SHOWER DETAIL AT WALLS

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PROJECT NAME: **OPS CENTER OFFICE** AND TOILET REMODEL 2402 WEST MICHIGAN ST. DULUTH, MINNESOTA 55806

DRAWING TITLE: **TOILET AND LOCKER ROOM FINISH** SCHEDULE AND **FINISH DETAILS**

DRAWN BY: KJS CHECKED BY: BNL PROJ. NO: 200066 DRAWING NO:



ALL TILE FLOORS UNO IN ROOM FIN SCHED FLOOR FIELD TILE PATTERN; OVERLAP 1/3 TILE, PARALLEL TO WALL WITH DOOR

1 FLOOR TILE PATTERN 2

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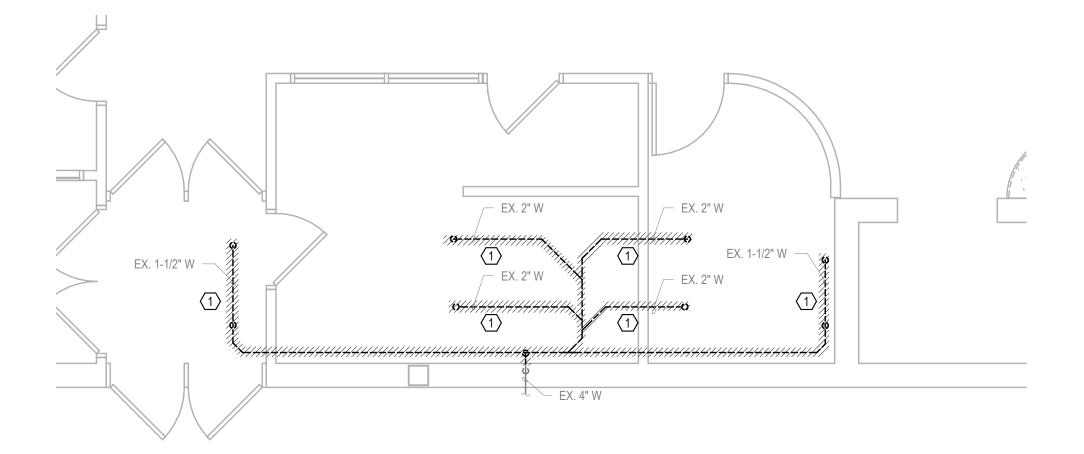
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2 LEVEL 1 ADMIN TOILETS PLUMBING DEMOLITION PLAN 1/4" = 1'-0"



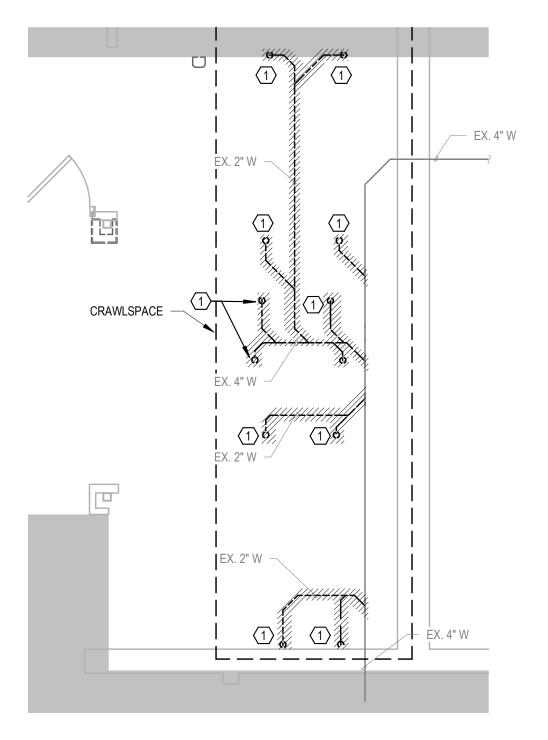
3 LEVEL 0 DRIVERS LOCKER ROOMS PLUMBING DEMOLITION PLAN

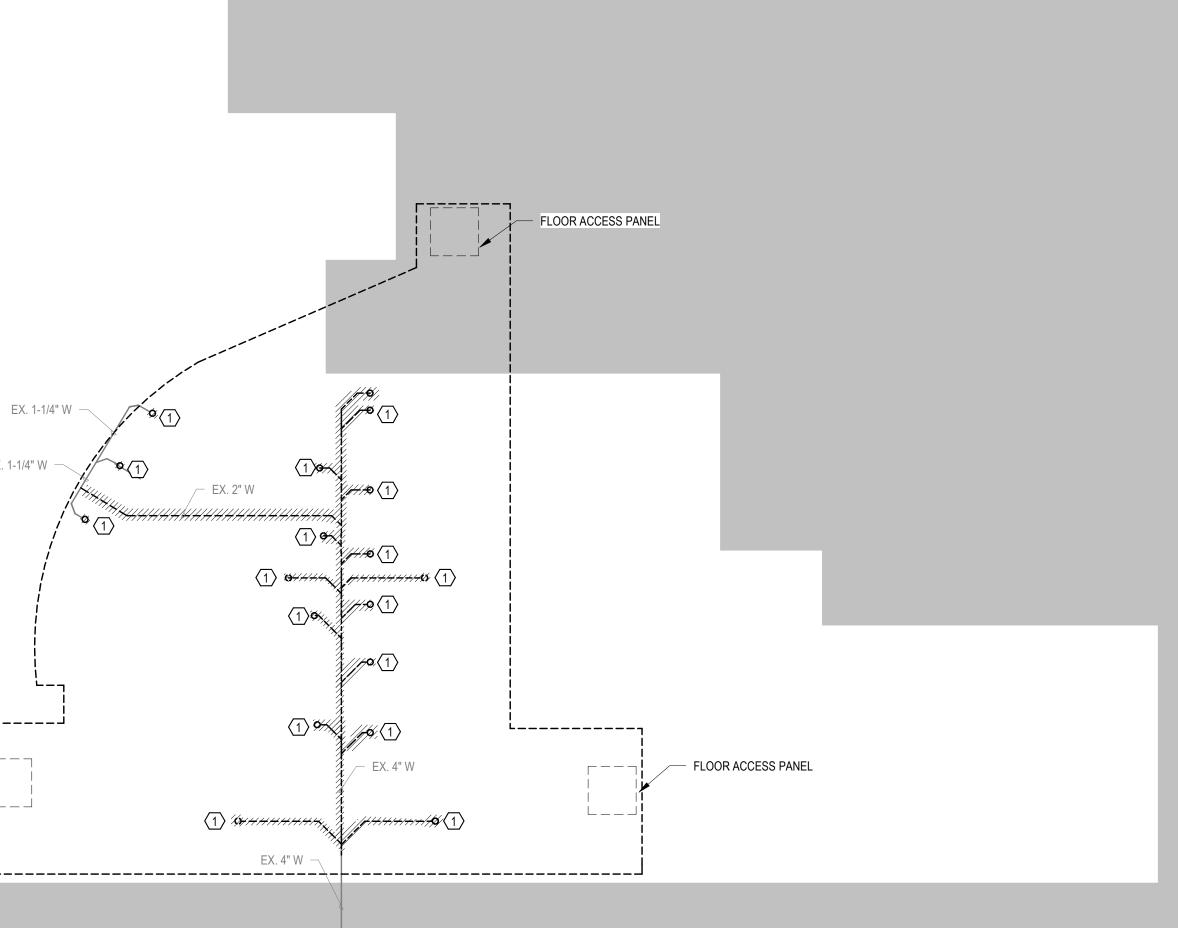
FLOOR ACCESS PANEL —	

EX. 1-1/4" W –

2

1 LEVEL 0 ADMIN TOILETS PLUMBING DEMOLITION PLAN





KEYED SHEET NOTES

DEMOLISH WASTE PIPING IN HATCHED REGION SHOWN. CAP BACK AT MAIN. $\langle 1 \rangle$



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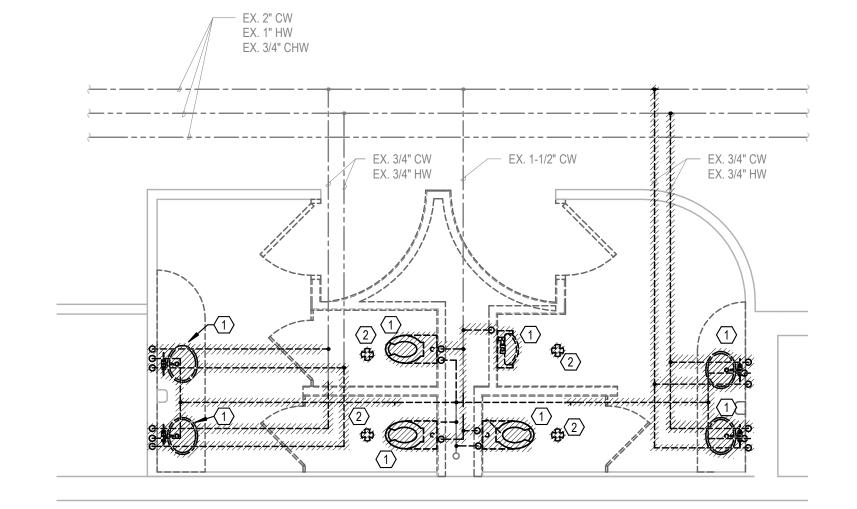
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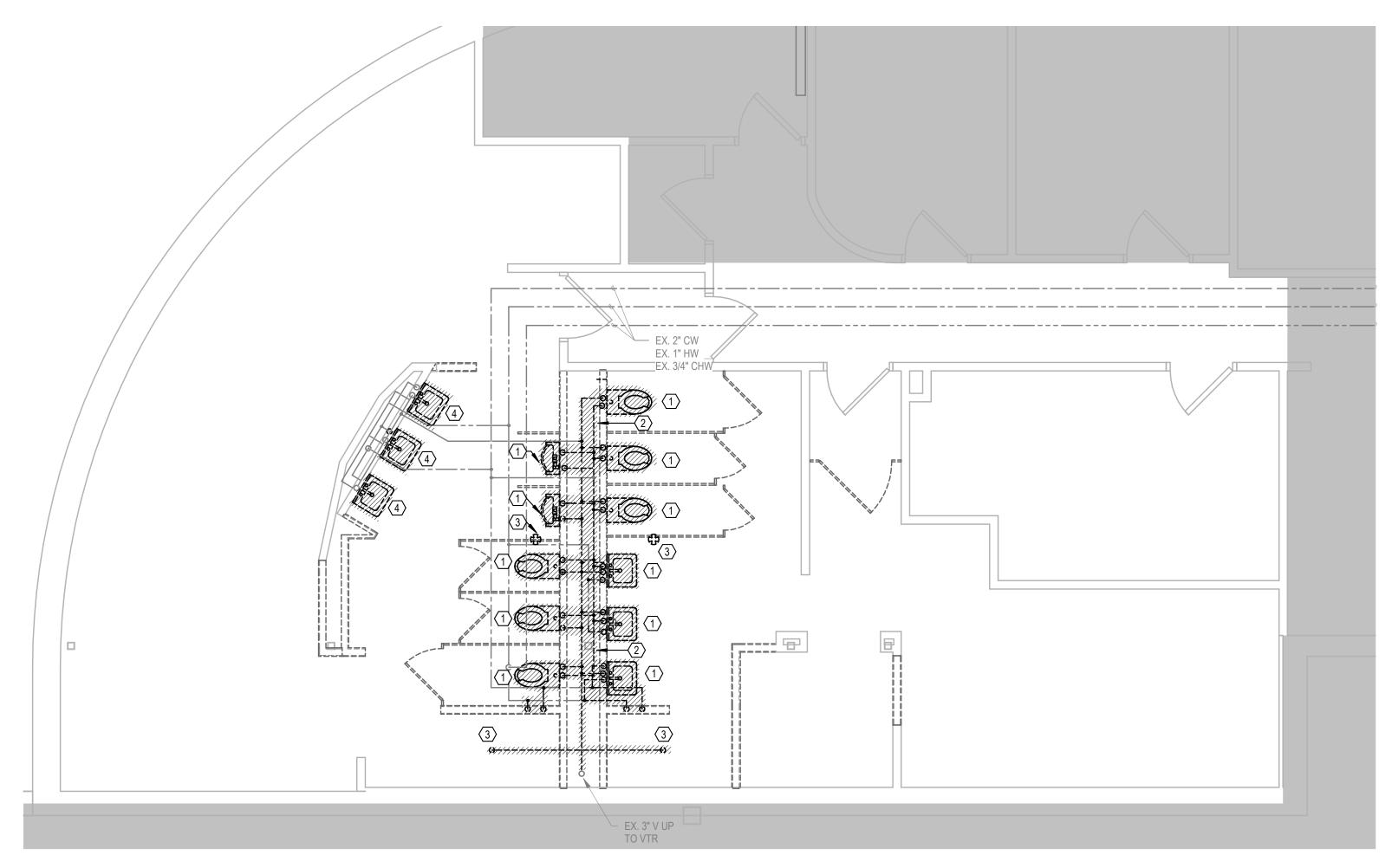
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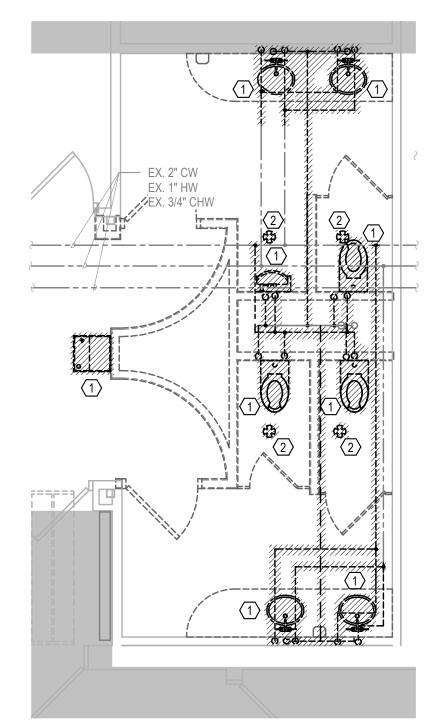
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2 LEVEL 2 ADMIN TOILETS DEMOLITION PLAN









1 LEVEL 1 ADMIN TOILETS PLUMBING DEMOLITION PLAN

KEYED SHEET NOTES

- (1) DEMOLISH PLUMBING FIXTURE AND ALL ASSOCIATED PIPING IN HATCHED REGION SHOWN. $\langle 2 \rangle$ DEMOLISH ALL PIPING IN CHASE FROM FLOOR TO 48" AFF.
- 3 DEMOLISH FLOOR DRAIN AND ALL ASSOCIATED PIPING IN HATCHED REGION SHOWN.
- $\langle 4 \rangle$ REMOVE LAVATORY. PIPING IN CHASE AND WALL SHALL REMAIN AS IS.



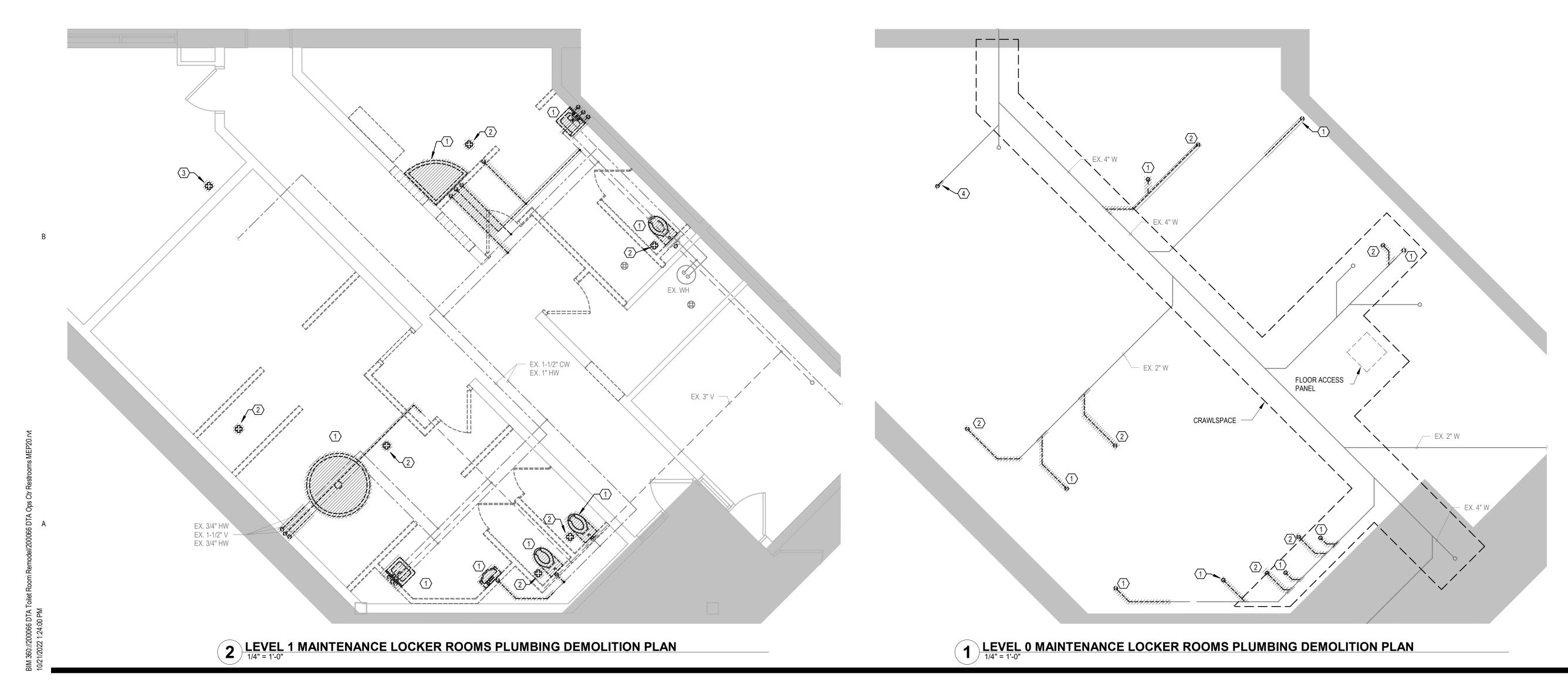
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KEYED SHEET NOTES

- (1) DEMOLISH PLUMBING FIXTURE AND ALL ASSOCIATED PIPING IN HATCHED REGION SHOWN.
- $\langle 2 \rangle$ DEMOLISH FLOOR DRAIN AND ALL ASSOCIATED PIPING IN HATCHED REGION SHOWN.
- $\langle 3 \rangle$ REMOVE FLOOR DRAIN. PREPARE WASTE PIPE FOR NEW SINK CONNECTION.
- $\langle 4 \rangle$ REMOVE WASTE PIPING IN HATCHED REGION SHOWN. PREPARE WASTE FOR NEW SINK CONNECTION.



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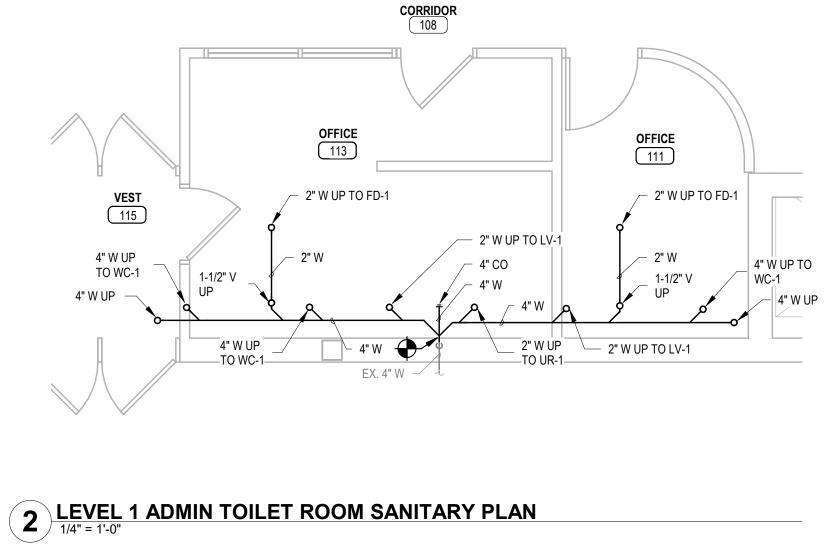
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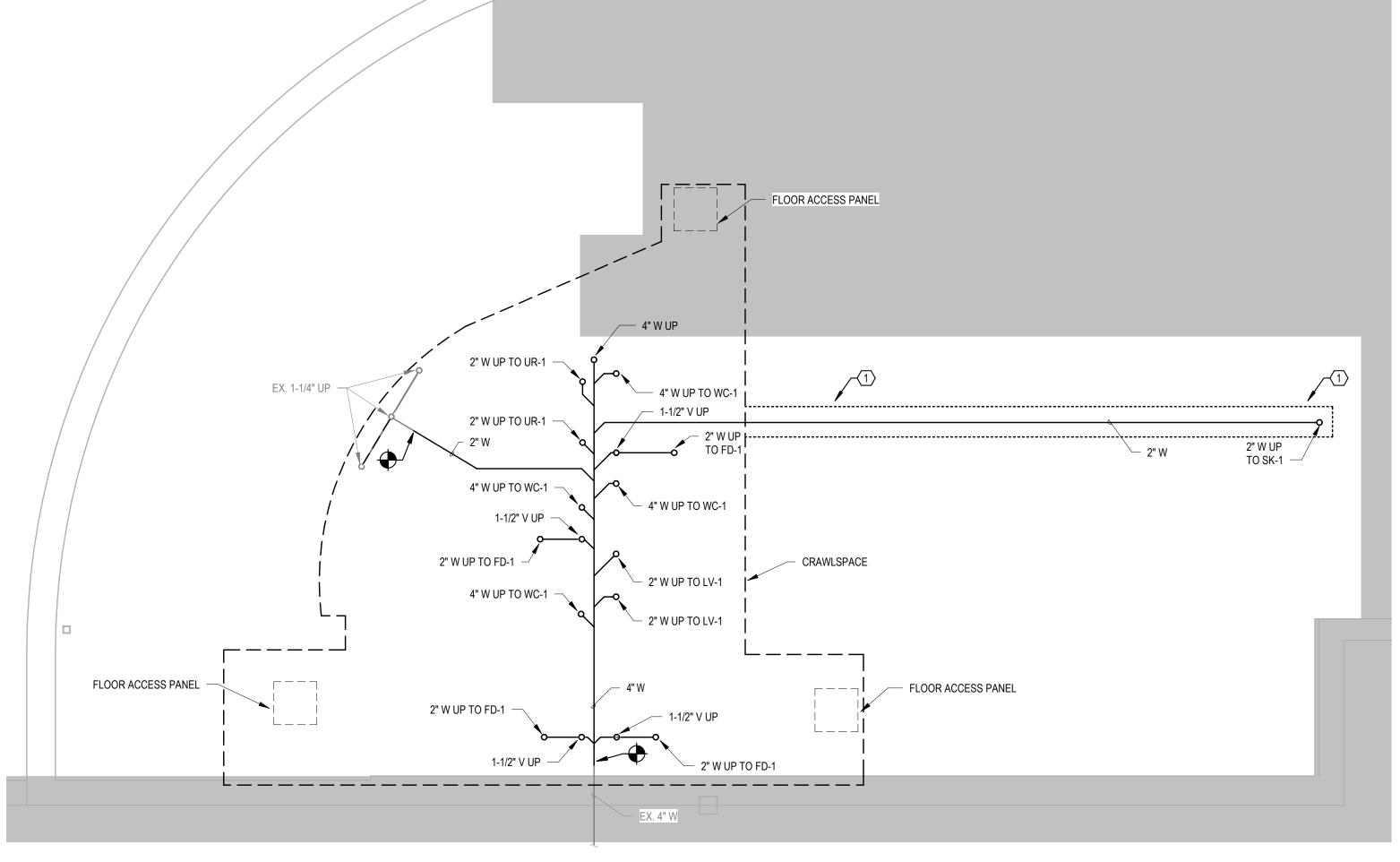
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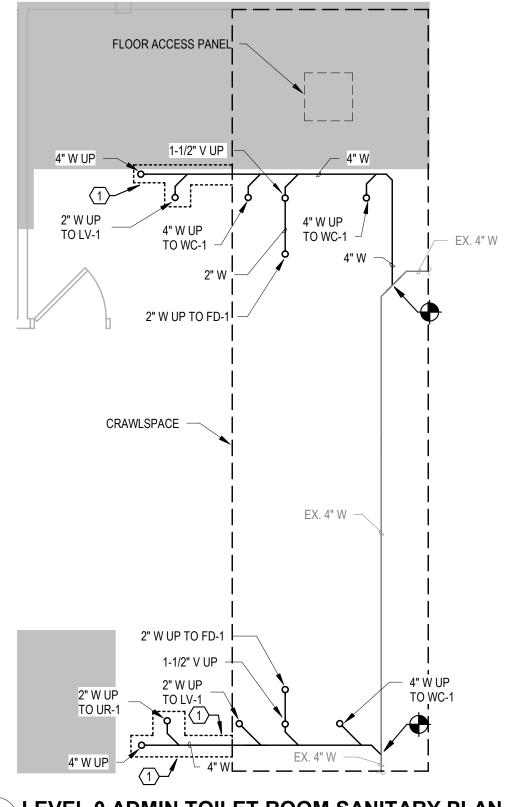
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3 LEVEL 0 DRIVER LOCKER ROOMS SANITARY PLAN







KEYED SHEET NOTES

 $\langle 1 \rangle$

SAWCUT EXISTING SLAB AS REQUIRED FOR NEW PIPING INSTALLATION. PATCH FLOOR TO MATCH EXISTING.



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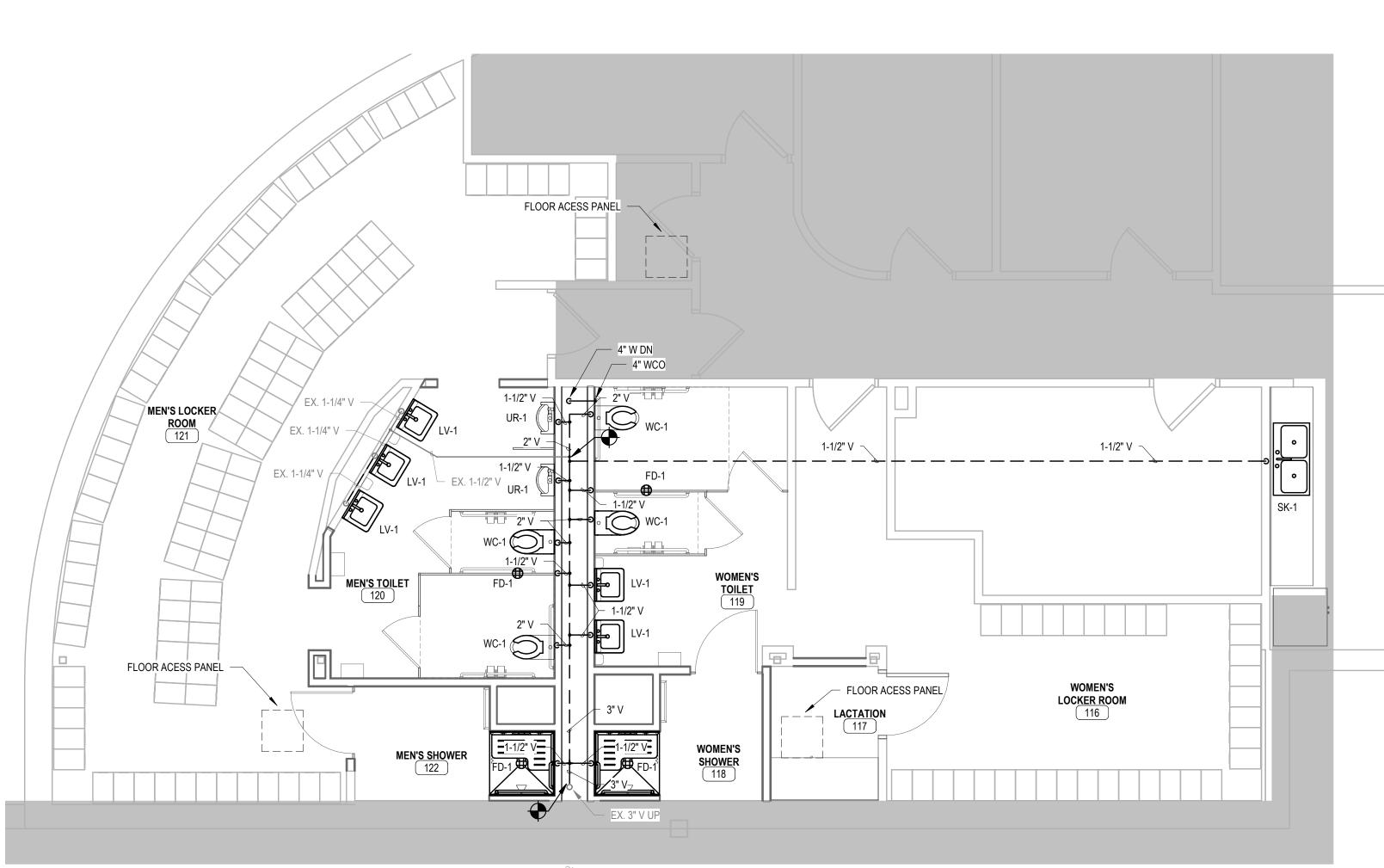
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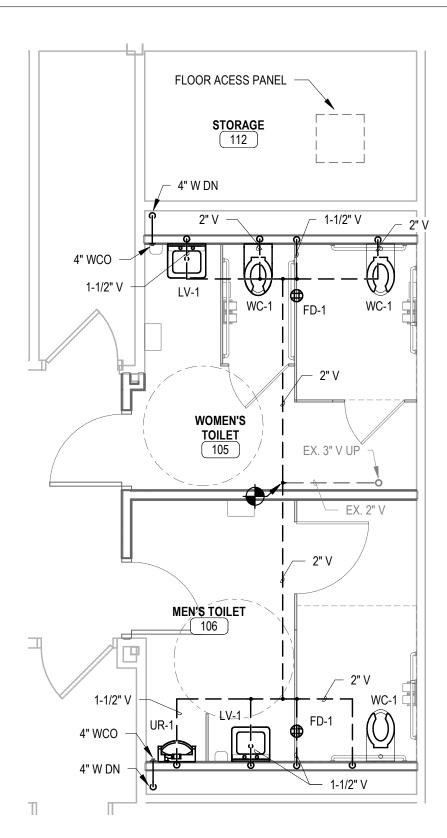
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1 LEVEL 1 ADMIN TOILET ROOM SANITARY PLAN



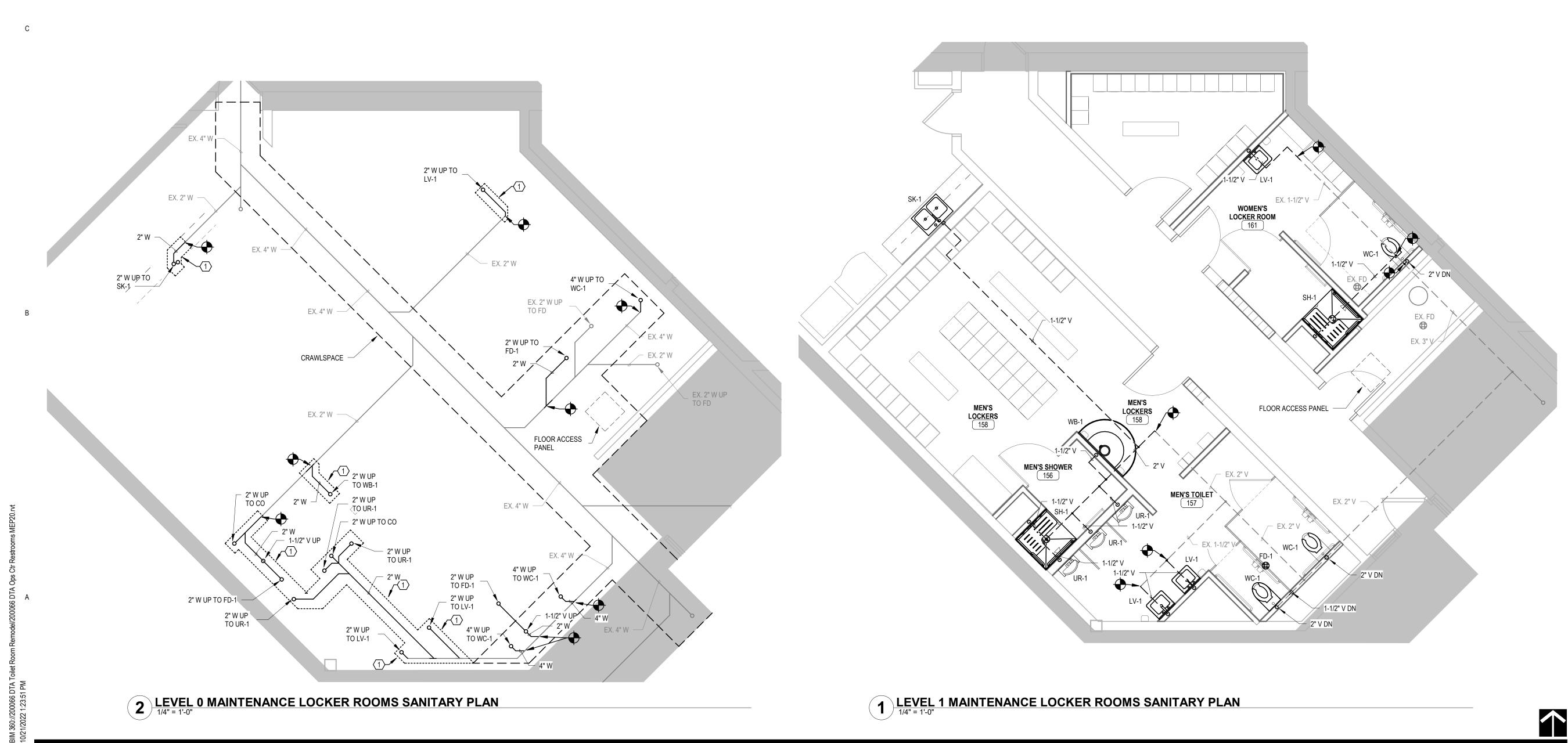


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KEYED SHEET NOTES

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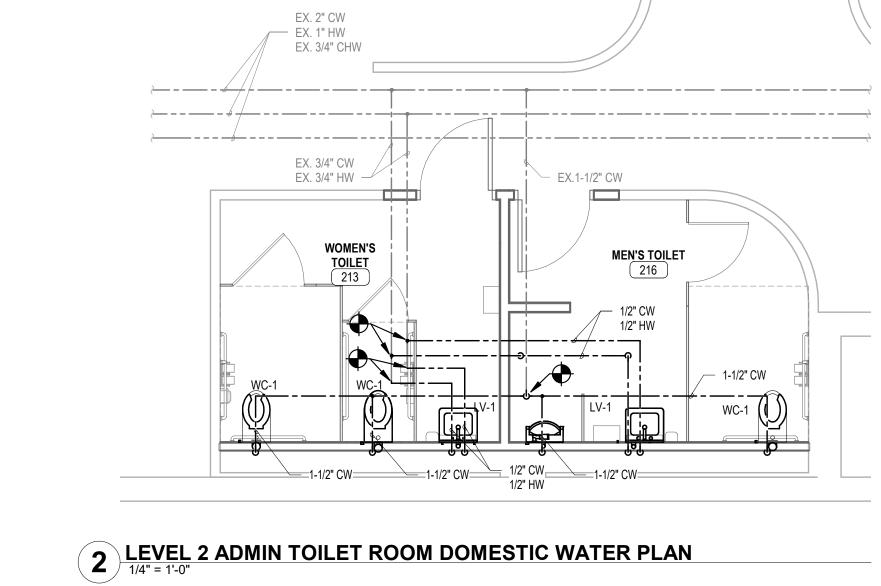




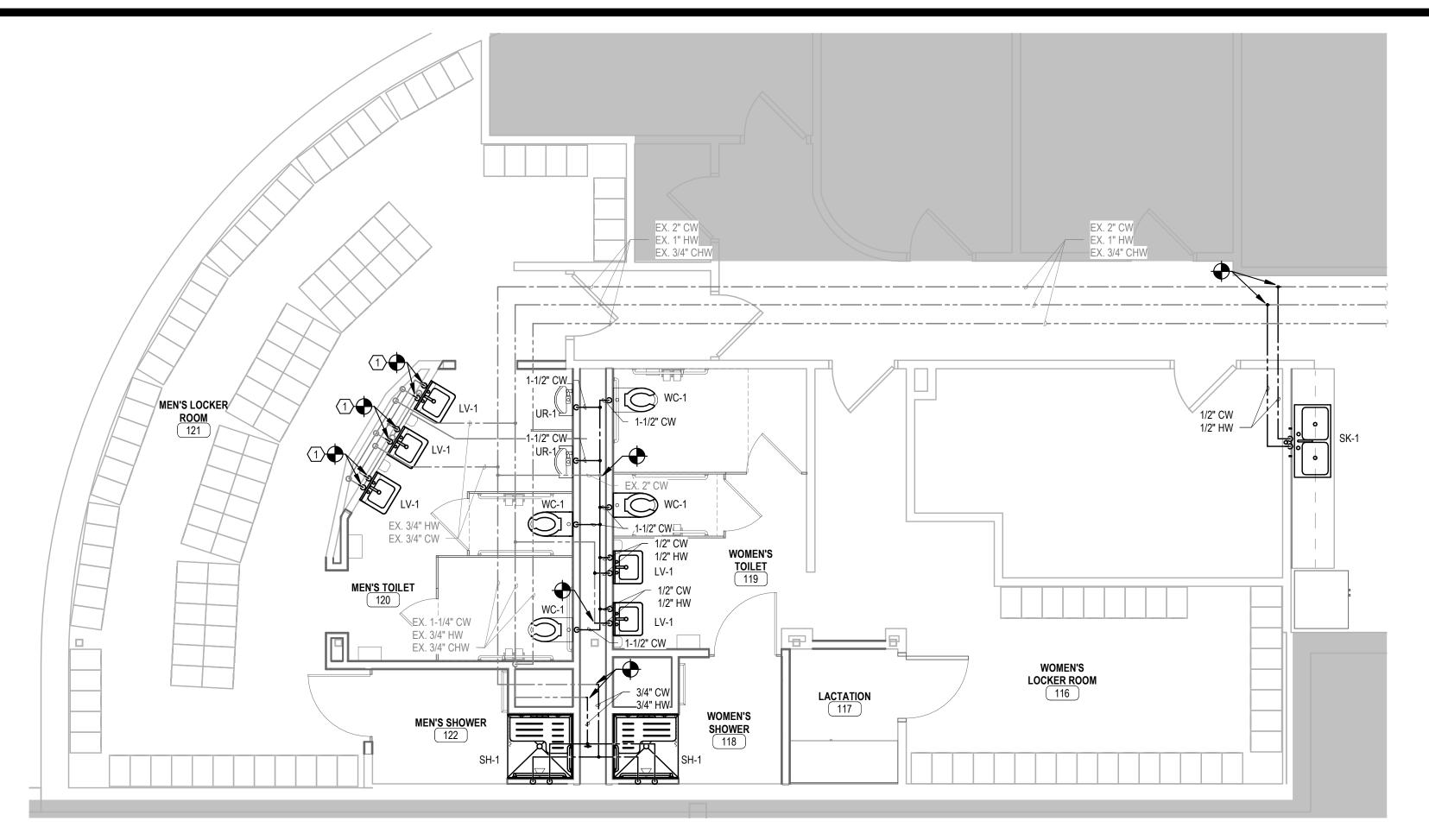
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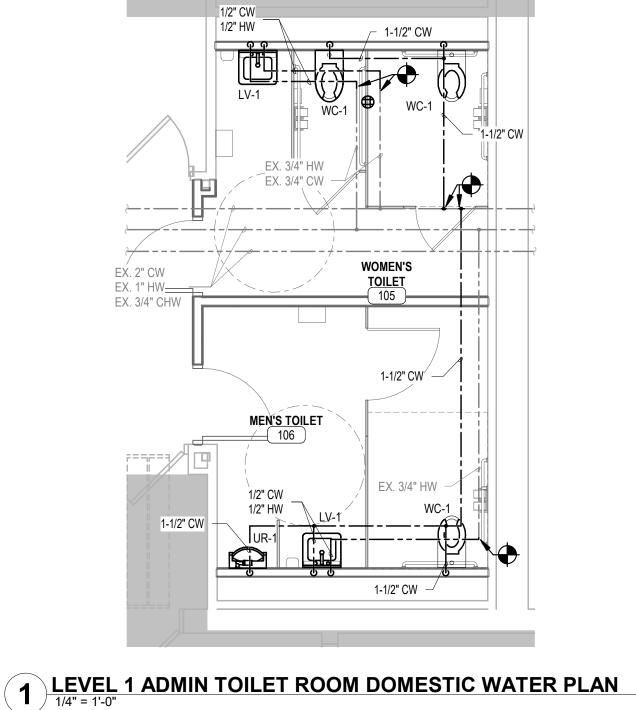
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KEYED SHEET NOTES

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1/2" DOMESTIC COLD WATER AND 1/2" DOMESTIC HOT WATER DOWN AT LOCATION SHOWN.



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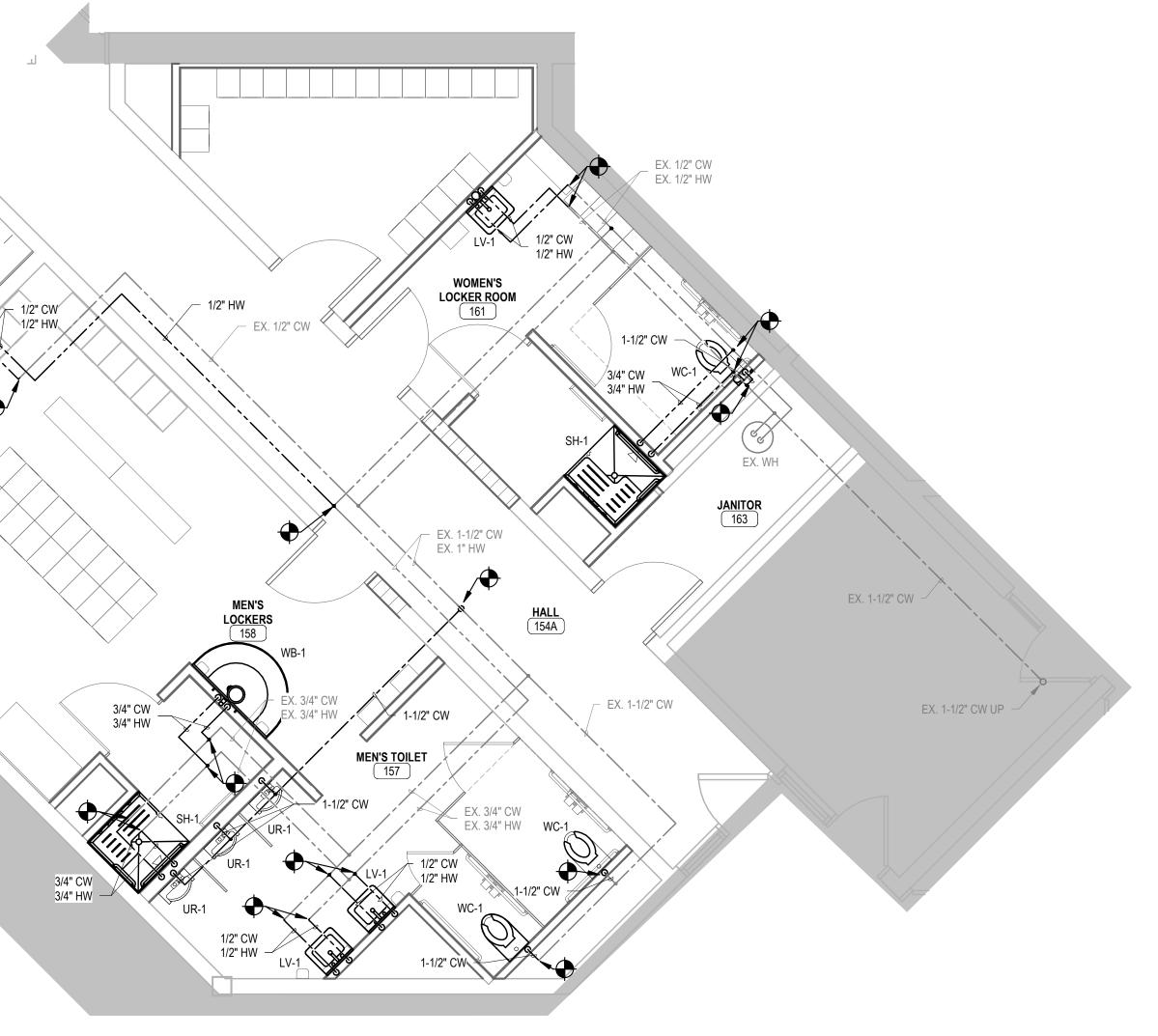
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1 LEVEL 1 MAINTENANCE LOCKER ROOMS DOMESTIC WATER PLAN



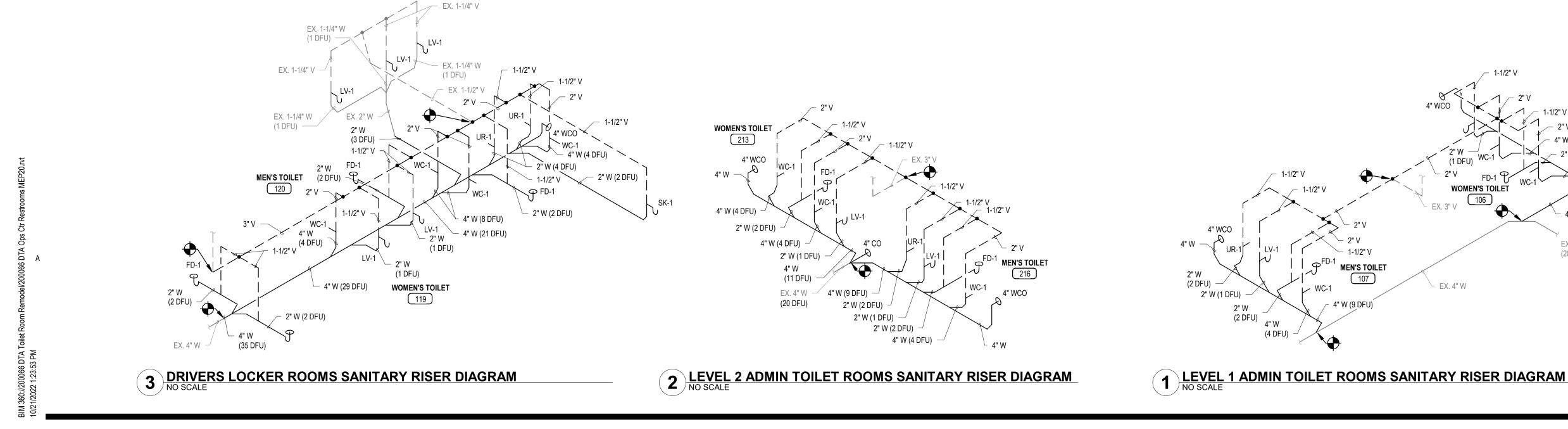
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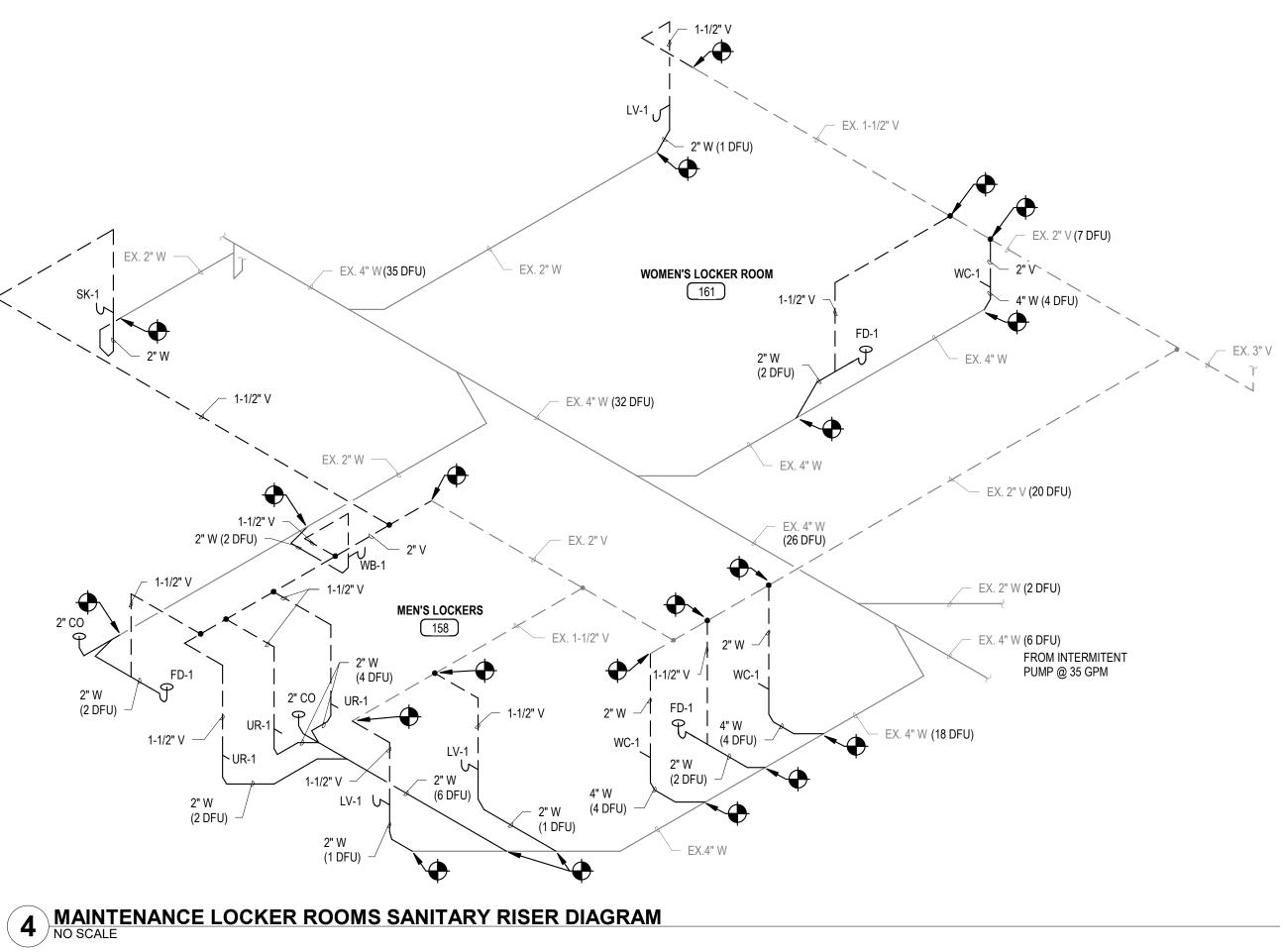
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Date: <u>10/24/2022</u> Reg. No.: <u>21202</u> COPYRIGHT 2022 BY LHB, INC. ALL RIGHTS RESERVED.	
PROJECT NAME: OPS CENTER OFFICE AND TOILET REMODEL 2402 WEST MICHIGAN ST. DULUTH, MINNESOTA 55806	
DRAWING TITLE: LEVEL 1 MAINTENANCE LOCKER ROOMS DOMESTIC WATER PLAI	N









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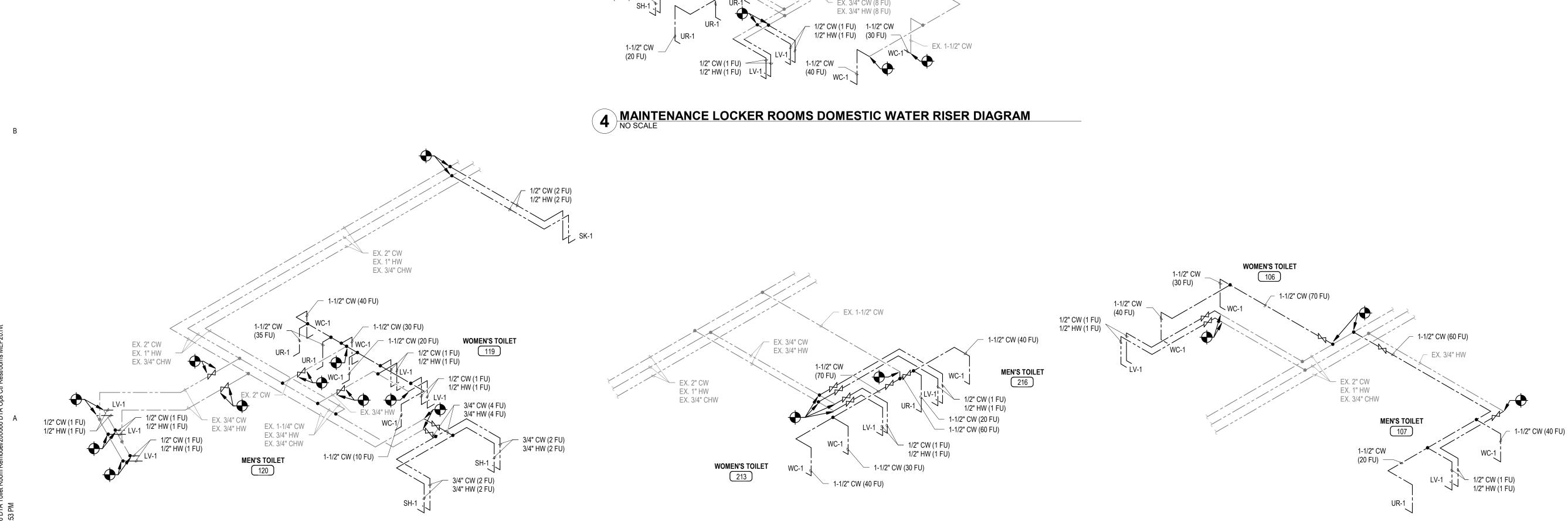
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1-1/2" V 4" W (4 DFU) — 2" W (2 DFU) WC-1 (1 DFU 4" W (4 DFU) 2" V FD-1 V WOMEN'S TOILET 3" V WC-1 $\mathbf{\Phi}$ – 4" W (11 DFU) EX. 4" W (20 DFU)





3/4" CW (2 FU) 3/4" HW (2 FU)

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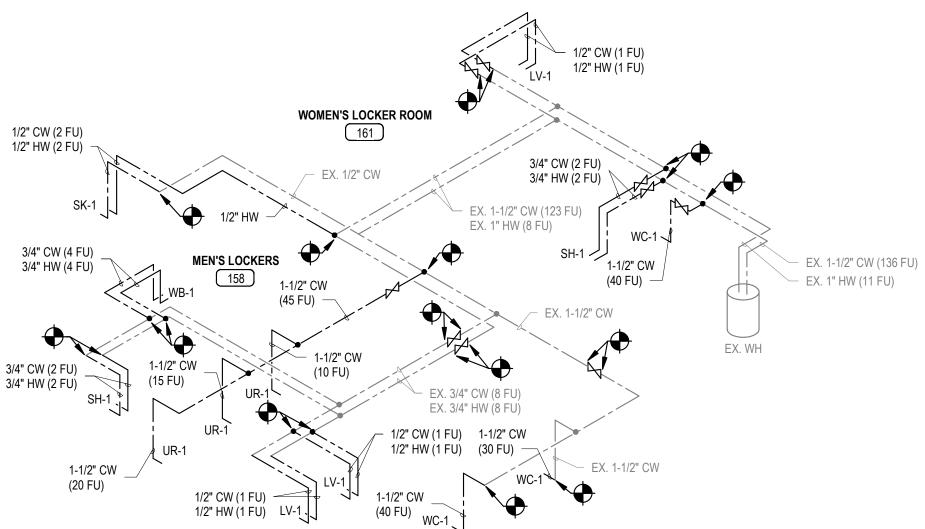
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3 DRIVERS LOCKER ROOMS DOMESTIC WATER RISER DIAGRAM

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2 LEVEL 2 ADMIN TOILET ROOMS DOMESTIC WATER RISER DIAGRAM

1 LEVEL 1 ADMIN TOILET ROOMS DOMESTIC WATER RISER DIAGRAM



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	MENT ABBREVIATIONS			GENEF	RAL SYMBOLS
ACC	AIR COOLED CONDENSER	FUR	FURNACE		
CU	AIR COOLING CONDENSING UNIT	GEN	GENERATOR	<u>/#</u>	REVISION NUMBER, SHOWN ON PLAN
P		HUM	HUMIDIFIER		
S	AIR FILTER AIR FLOW MEASURING STATION	HC HRU	HEATING COIL HEAT RECOVERY UNIT		
5	AIR HANDLING UNIT	HTR	HEATER		TIE IN POINT
	AIR SEPARATOR	HX	HEAT EXCHANGE		
	BOILER	HPU	HEAT PUMP UNIT		
C F	COOLING COIL	MAU	MAKE-UP AIR UNIT		KEYED NOTE
		OBD P	OPPOSED BLADE DAMPER		
Р	CHEMICAL FEEDER CHEMICAL FEED PUMP	P PRV	PUMP POWER ROOF VENTILATOR		
	CHILLER	RF	RETURN FAN		
	CONDENSATE PUMP	RHC	REHEAT COIL	$\begin{pmatrix} X \\ Y.Z \end{pmatrix}$	NUMBER OF DETAIL
S RAC	COMPUTER ROOM AIR CONDITIONER	RMB	RADIANT MIXING BLOCK	Y.2 -	NUMBER OF SHEET WHERE DETAIL APP
ิรบ	CONDENSATE RETURN UNIT	RTU	ROOF TOP UNIT		
SG T	CLEAN STEAM GENERATOR	SAT	SOUND ATTENUATOR		
		SEP	SEWAGE EJECTOR PUMP		
 >	CABINET UNIT HEATER	SF	SUPPLY FAN		
,	CONDENSER WATER PUMP DOMESTIC WATER BOOSTER PUMP	SP UH	SUMP PUMP UNIT HEATER		
	EXHAUST AIR VALVE	UNUS	UTILITY SET		ROL SYMBOLS
V	EXHAUST FAN	UV	UNIT VENTILATOR		
J	ENERGY RECOVERY UNIT	VAV	VARIABLE AIR VOLUME BOX	(T)	THERMOSTAT
	EXPANSION TANK	WF	WATER FILTER		
	FAN COIL UNIT	WFMS	WATER FLOW MEASURING STATION		
	FIRE PUMP	WH	WATER HEATER		THERMOSTAT, REVERSE ACTING
-	BATH TUB	LV MB	LAVATORY MOP BASIN	H	HUMIDISTAT
2	CLEAN OUT DRINKING FOUNTAIN GARBAGE DISPOSAL ELECTRIC WATER COOLER EMERGENCY SHOWER EYE WASH EL OOR DRAIN	OB SH SK SS TD	WASHING MACHINE OUTLET BOX SHOWER SINK SERVICE SINK TRENCH DRAIN	T H	TEMPERATURE SENSOR HUMIDITY SENSOR
	DRINKING FOUNTAIN GARBAGE DISPOSAL ELECTRIC WATER COOLER EMERGENCY SHOWER EYE WASH FLOOR DRAIN	OB SH SK SS TD UR	SHOWER SINK SERVICE SINK TRENCH DRAIN URINAL	Н	HUMIDITY SENSOR
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CO DF DISP EC ES EW ED ES HB HY T	DRINKING FOUNTAIN GARBAGE DISPOSAL ELECTRIC WATER COOLER EMERGENCY SHOWER EYE WASH FLOOR DRAIN FLOOR SINK	OB SH SS TD UR WB	SHOWER SINK SERVICE SINK TRENCH DRAIN URINAL WASH BASIN	Н	HUMIDITY SENSOR
SP 1	DRINKING FOUNTAIN GARBAGE DISPOSAL ELECTRIC WATER COOLER EMERGENCY SHOWER EYE WASH FLOOR DRAIN FLOOR SINK HOSE BIB HYDRANT	OB SH SK SS TD UR WB WC WCO WHD	SHOWER SINK SERVICE SINK TRENCH DRAIN URINAL WASH BASIN WATER CLOSET WALL CLEAN OUT	Н	HUMIDITY SENSOR SENSOR (OTHER) (REFER TO GEN. ABBREV. FOR SENSOR TYPE)
JMB	DRINKING FOUNTAIN GARBAGE DISPOSAL ELECTRIC WATER COOLER EMERGENCY SHOWER EYE WASH FLOOR DRAIN FLOOR SINK HOSE BIB HYDRANT LAUNDRY TUB	OB SH SK SS TD UR WB WC WCO WHD	SHOWER SINK SERVICE SINK TRENCH DRAIN URINAL WASH BASIN WATER CLOSET WALL CLEAN OUT	Н	HUMIDITY SENSOR SENSOR (OTHER) (REFER TO GEN. ABBREV. FOR SENSOR TYPE)
UMB	DRINKING FOUNTAIN GARBAGE DISPOSAL ELECTRIC WATER COOLER EMERGENCY SHOWER EYE WASH FLOOR DRAIN FLOOR SINK HOSE BIB HYDRANT LAUNDRY TUB	OB SH SK SS TD UR WB WC WCO WHD DLS	SHOWER SINK SERVICE SINK TRENCH DRAIN URINAL WASH BASIN WATER CLOSET WALL CLEAN OUT WALL HYDRANT	Н	HUMIDITY SENSOR SENSOR (OTHER) (REFER TO GEN. ABBREV. FOR SENSOR TYPE)
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DOMESTIC COLD WATER CONDENSER WATER RETURN - CWS - CONDENSER WATER SUPPLY D INDIRECT DRAIN DEIONIZED WATER DW DISTILLED WATER FOR FOR FUEL OIL RETURN FUEL OIL SUPPLY FOV FOUL VENT FIRE PROTECTION MAIN FIRE PROTECTION DRY SYSTEM FIRE PROTECTION PRE-ACTION SYSTEM FIRE PROTECTION WET SYSTEM GAS GAS GLYCOL RETURN GLYCOL SUPPLY GREASE WASTE HIGH PRESSURE STEAM CONDENSATE HIGH PRESSURE STEAM HEAT PUMP WATER RETURN HEAT PUMP WATER SUPPLY HEAT RECOVERY WATER RETURN HEAT RECOVERY WATER SUPPLY ---- HW ---- DOMESTIC HOT WATER HEATING WATER RETURN HEATING WATER SUPPLY LOW PRESSURE STEAM CONDENSATE LIQUID PETROLEUM GAS LPS LOW PRESSURE STEAM MED AIR MEDICAL AIR MED VAC MEDICAL VACUUM MPC MPC MEDIUM PRESSURE STEAM CONDENSATE MPS MPS MEDIUM PRESSURE STEAM NITROGEN NITROUS OXIDE NG NATURAL GAS NON-POTABLE WATER OVFL OVERFLOW STORM DRAIN PC PC PUMPED CONDENSATE REFRIGERANT DISCHARGE (HOT GAS) REFRIGERANT LIQUID RS REFRIGERANT SUCTION SD STORM DRAIN - - - - SDBS - - - STORM DRAIN, BELOW SLAB SOFTENED WATER TEMPERED WATER RETURN TWS TWS TEMPERED WATER SUPPLY — — — — V — — — VENT WASTE/SANITARY WAGD WAGD WASTE ANESTHETIC GAS DISPOSAL — — — — WBS — — — — WASTE/SANITARY, BELOW SLAB WC WASTE CONDENSATE (COLD COND.)

— CWR ———

— HWR —

—— HWS ——

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CHECK VALVE SHUT-OFF VALVE THROTTLING VALVE CIRCUIT BALANCING VALVE TWO-WAY CONTROL VALVE THREE-WAY CONTROL VALVE PRESSURE REDUCING VALVE STRAINER
TRIPLE DUTY VALVE UNION
PRESSURE GAUGE STEAM TRAP
THERMOMETER
FLOW DIRECTION ARROW
FLOW CONTROL VALVE
WATER FLOW MEASURING STATION
METER
PUMP
DROP IN PIPE
RISE IN PIPE
PIPE CAP
PIPE CLEANOUT PIPE CONNECTION
EXPANSION JOINT
RPZ BACK FLOW PREVENTER
AUTO AIR VENT
MANUAL AIR VENT
RELIEF VALVE FIN-TUBE RADIATION ELEMENT
FLOOR DRAIN (SIZE AS INDICATED)
HOSE BIB OR WALL HYDRANT
PIPING, HEAT TRACED
PIPING PITCH, DOWN PIPE ANCHOR PIPE GUIDE

DITIONING DOOR FINISHED FLOOR GROUND ATE JM PANEL SSURE DROP IMATE ECT/ARCHITECTURAL NT ISTE ITIC G 1 OF DUCT 1 INT THERMAL UNITS THERMAL UNITS THERMAL UNITS PER HOUR Y INT AIR VOLUME BASIN INT FLOW CONTROL VALVE EET PER MINUTE TC CIRCULATING HOT WATEF ON G I MONOXIDE DUT I DIOXIDE J ATION ETE ISATE IT SUCT JE, CONTINUATION ICTOR	HPC HTG HVAC HW IN INL INSUL INT INV INWG IPLV	FLOOD DRAIN FLEXIBLE FLANGE FLAT ON BOTTOM FUEL OIL FILL FUEL OIL VENT FUEL OIL RETURN FUEL OIL SUPPLY FLAT ON TOP FEET PER MINUTE FIBERGLASS REINFORCED PIPE FOOT (FEET) FOOTING FIN TUBE RADIATION GAUGE GALLON GALVANIZED GENERAL CONTRACTOR GALLONS PER HOUR GRADE GALLONS PER MINUTE HEAD HEATING HOT WATER HORIZONTAL HORSE POWER HIGH PRESSURE STEAM HIGH PRESSURE STEAM HIGH PRESSURE STEAM HIGH PRESSURE STEAM HIGH PRESSURE CONDENSATE HEATING HEATING, VENTILATION, AIR CONDITIONIN DOMESTIC HOT WATER INCH/INCHES INLET INSULATION INTERIOR INVERT	OA OAD OAT OC OF ORD PD PG PIV PLBG PR PREL PRESS PRV PSI PSIG PW PWR RA RAD RAT RCP RD REC RECT RED REFR IG RH REQD RLA RLD RM	OUTSIDE AIR OUTSIDE AIR DAMPER OUTSIDE AIR TEMPERATURE ON CENTER OVERFLOW OVERFLOW ROOF DRAIN PRESSURE DROP PROPYLENE GLYCOL POST INDICATOR VALVE PLUMBING PAIR PRELIMINARY PRESSURE REDUCING STATION PRESSURE REDUCING STATION PRESSURE REDUCING VALVE POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH GAUGE POTABLE WATER POWER RETURN AIR RETURN AIR RETURN AIR RETURN AIR RETURN AIR TEMPERATURE RADIANT CEILING PANEL ROOF DRAIN RECESSED RECTANGULAR REDUCER REFRIGERATION RELATIVE HUMIDITY REQUIRED RELIEF AIR RELIEF AIR DAMPER	1. 2. 3. 4. 5. 6. 7.
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ISATE CT RUCT JE, CONTINUATION CTOR	INWG IPLV		RND	ROUND	
CT RUCT JE, CONTINUATION ACTOR		INCHES WATER GAUGE	RPM RPZ	REVOLUTIONS PER MINUTE REDUCED PRESSURE ZONE	
JE, CONTINUATION		INTEGRATED PART LOAD VALUE	SA	SUPPLY AIR	9.
CTOR	KBTU LAB	ONE THOUSAND BTU PER HOUR LABORATORY	SAN SCHED	SANITARY SCHEDULE	
	LB LB/HR	POUND POUNDS PER HOUR	SECT SF	SECTION SQUARE FEET	
NATE	LAT	LEAVING AIR TEMPERATURE	SD	SMOKE DAMPER	
EET /ALVE	LF LOC	LINEAL FEET LOCATION	SHT SIM	SHEET SIMILAR	
TIC COLD WATER	LP	LOW PRESSURE	SLV	SLEEVE	MECH <i>i</i>
E RGE AIR	LPG LVR	LIQUIFIED PETROLEUM GAS LOUVER	SP SPEC	STATIC PRESSURE SPECIFICATION	
RGE AIR TEMPERATURE	LWT	LEAVING WATER TEMPERATURE	SPS	STATIC PRESSURE STATION	M001
.B ED WATER	M/A		SQ	SQUARE	MD101
ER	MAD MAN	MIXED AIR DAMPER MANUAL	SRV SS	SAFETY RELIEF VALVE STAINLESS STEEL	MD101A
AL ION	MAT MATL	MIXED AIR TEMPERATURE MATERIAL	STD STM	STANDARD STEAM	
RGE	MAV	MANUAL AIR VENT	STRUCT	STRUCTURAL	M101A
ED WATER RETURN					M101B M102
N NATER SUPPLI	MBH	ONE THOUSAND BTU PER HOUR	TCP	TEMPERATURE CONTROL PANEL	M102 M601
			TEFC	TOTALLY ENCLOSED FAN COOLED	
G	MECH	MECHANICAL	TSP	TOTAL STATIC PRESSURE	
IG AIR TEMPERATURE					
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AL STATIC PRESSURE	NIC	NOT IN CONTRACT	VOL	VOLUME	
G	NPLV	NOMINAL PART LOAD VALUE	WB	WET BULB	
ION DR	NIS	NOT TO SCALE			
			WPD	WATER PRESSURE DROP	
	D WATER RETURN D WATER SUPPLT WATER G AIR TEMPERATURE E GLYCOL CAL DN NT L STATIC PRESSURE G WATER TEMPERATURE AIR	D WATER RETURN MAX D WATER SUPPLT MBD MBH MCF D WATER MD G MECH MFR G AIR TEMPERATURE MH E GLYCOL MIN MISC CAL MMBH DN MTR MUA NT NC L STATIC PRESSURE NIC G WATER TEMPERATURE NO AIR NOM NPLV DN NTS	D WATER RETURN MAX MAXIMUM D WATER SUPPLT MBD MOTORIZED BYPASS DAMPER MBH ONE THOUSAND BTU PER HOUR MCF ONE THOUSAND CUBIC FEET O WATER MD MOTORIZED DAMPER G MECH MECHANICAL MFR MANUFACTURER G AIR TEMPERATURE MH MANHOLE E GLYCOL MIN MINIMUM MISC MISCELLANEOUS CAL MMBH ONE MILLION BTU PER HOUR MTR MOTOR MUA MAKE-UP AIR NT NC NORMALLY CLOSED L STATIC PRESSURE NIC NOT IN CONTRACT G WATER TEMPERATURE NO NORMALLY OPEN AIR NOM NOMINAL NPLV NOMINAL PART LOAD VALUE ON NTS NOT TO SCALE	D WATER RETURNMAXMAXIMUMSUCTD WATER SUPPLTMBDMOTORIZED BYPASS DAMPERSUSPMBHONE THOUSAND BTU PER HOURTCPMCFONE THOUSAND CUBIC FEETTEFCD WATERMDMOTORIZED DAMPERTEMPG AIR TEMPERATUREMHMANUFACTURERTYPG AIR TEMPERATUREMHMANHOLEUGE GLYCOLMINMINIMUMVACMISCMISCELLANEOUSVCALMMBHONE MILLION BTU PER HOURVELDNMTRMOTORVERTNTNCNORMALLY CLOSEDVFDL STATIC PRESSURENICNOT IN CONTRACTVOLG WATER TEMPERATURENONORMALLY OPENVTRAIRNOMNOMINALWVERTDNNTSNOT TO SCALEWCWC	D WATER RETURNMAXMAXIMUMSUCTSUCTIOND WATER SUPPLTMBDMOTORIZED BYPASS DAMPERSUSPSUSPENDEDMBHONE THOUSAND BTU PER HOURTCPTEMPERATURE CONTROL PANELMCFONE THOUSAND CUBIC FEETTEFCTOTALLY ENCLOSED FAN COOLEDD WATERMDMOTORIZED DAMPERTEMPTEMPERATURED WATERMDMOTORIZED DAMPERTSPTOTAL STATIC PRESSUREMFRMANUFACTURERTYPTYPICALG AIR TEMPERATUREMHMANUFACTURERUGUNDERGROUNDG AIR TEMPERATUREMINMINIMUMVACVACUUMCALMINMINIMUMVACVACUUMCALMBHONE MILLION BTU PER HOURVELVELOCITYNAMTRMOTORVENTVENTCALMMBHONE MILLION BTU PER HOURVEIVEICCITYNNMTRMOTORVENTVENTICALNNMICNORMALLY CLOSEDVFDVARIABLE FREQUENCY DRIVEL STATIC PRESSURENICNOT IN CONTRACTVOLVOLUMES WATER TEMPERATURENONORMALLY OPENVTRVENT THROUGH ROOFAIRNOMNOMINAL PART LOAD VALUEWBWET BULBNNNT TO SCALEWCOWALL CLEAN OUT

M— MOTORIZED DAMPER BACK DRAFT DAMPER BDD ——— ∎ VARIABLE AIR VOLUME VALVE VARIABLE AIR VOLUME VALVE WITH REHEAT COIL SOUND ATTENUATOR SUPPLY AIR OUTLET (ARROWS **←** INDICATE DIRECTION OF THROW; IF NO ARROWS, 4-WAY THROW) ≁► RETURN AIR INLET -≁► EXHAUST AIR INLET -RECTANGLE TO ROUND TRANSITION STRAIGHT TAP

-T

 \mathcal{T}'

-41

45° ENTRY TAP

HIGH EFFICIENCY TAP, RECTANGLE TO ROUND

×. → DN AD AD [] AD ₿ FC ==== → **▲ ≁**∽∰≁≁ H≁► UC, H

SUPPLY DUCT AWAY FROM VIEWER RETURN DUCT TOWARD VIEWER RETURN DUCT AWAY FROM VIEWER EXHAUST DUCT TOWARD VIEWER EXHAUST DUCT AWAY FROM VIEWER CHANGE IN DUCT ELEVATION - RISE INDICATED BY "UP" CHANGE IN DUCT ELEVATION - DROP INDICATED BY "DN" SIDE ACCESS DOOR (VERTICAL) TOP ACCESS DOOR (HORIZONTAL) BOTTOM ACCESS DOOR (HORIZONTAL) FLEXIBLE CONNECTION DUCT LINING AIR INLET AND OUTLET TAG SIDEWALL DIFFUSER <u>XXX-X</u> SIDEWALL GRILLE (CFM-DIFFUSER TYPE) TRANSFER GRILLES

3

UNDERCUT DOOR (H=CLEARANCE)

ECHANICAL NOTES

DIVISION 1 - GENERAL REQUIREMENTS" IN THE PROJECT MANUAL RK THAT IS THE RESPONSIBILITY OF ALL CONTRACTORS.

RESPONSIBILITY OF THE MECHANICAL CONTRACTORS TO COORDINATE K OF THEIR TRADE WITH ALL OTHER TRADES PRIOR TO PROCEEDING EIR WORK. ANY WORK REQUIRING REMOVAL AND REINSTALLATION DUE OF COORDINATION SHALL BE THE RESPONSIBILITY OF THE

PERFORMING WORK REQUIRED, INSPECT ALL EXISTING CONDITIONS AND D WORK OF OTHER TRADES AND VERIFY THAT ALL CONDITIONS AND WORK IS COMPLETE TO THE POINT WHERE MECHANICAL WORK CAN Y COMMENCE.

I CUTTING, FITTING, AND PATCHING OF MECHANICAL EQUIPMENT AND S REQUIRED TO REMOVE EXISTING WORK AND TO INSTALL EQUIPMENT ERIALS IN EXISTING STRUCTURES.

NEW WORK AND EXISTING WORK TO REMAIN.

RACTOR IS REQUIRED TO FIELD VERIFY LOCATIONS OF EXISTING WORK

PMENT SHALL BE INSTALLED TRUE, LEVEL, AND IN THE LOCATION ON THE DRAWINGS.

PMENT SHALL BE INSTALLED IN A MANNER THAT PROVIDES ADEQUATE ANCE ACCESS.

EQUIPMENT AND MATERIALS FROM THE WEATHER AND CONSTRUCTION RING CONSTRUCTION AND LEAVE ALL EQUIPMENT AND DUCT INTERIORS

L SHEET INDEX

MECHANICAL SYMBOLS AND ABBREVIATIONS EVEL 1 & 2 MECHANICAL DEMOLITION PLANS EVEL 1 MAINTENANCE LOCKER ROOMS MECHANICAL DEMOLITION

EVEL 1 MECHANICAL PLANS EVEL 1 MECHANICAL PLANS EVEL 1 MAINTENANCE LOCKER ROOMS MECHANICAL PLANS MECHANICAL SCHEDULES AND DETAILS



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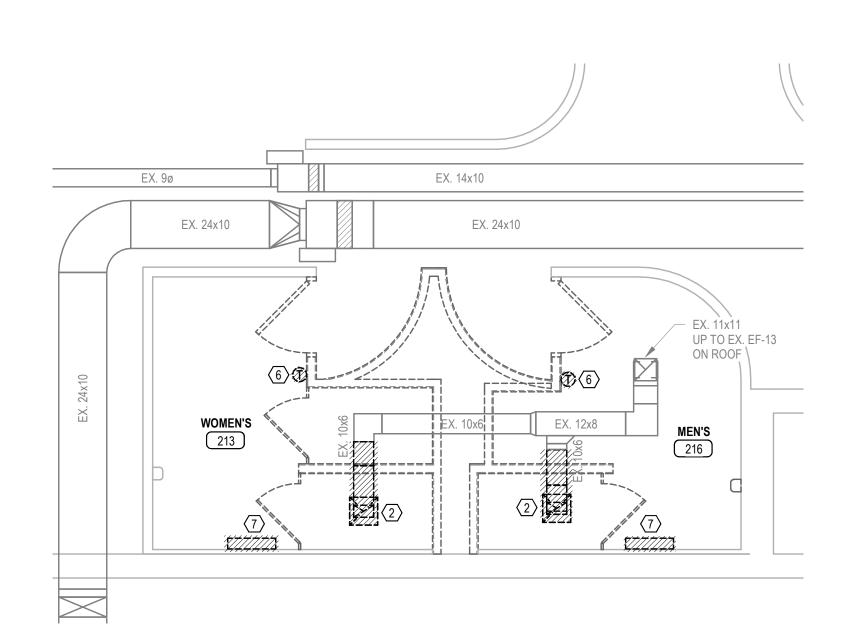
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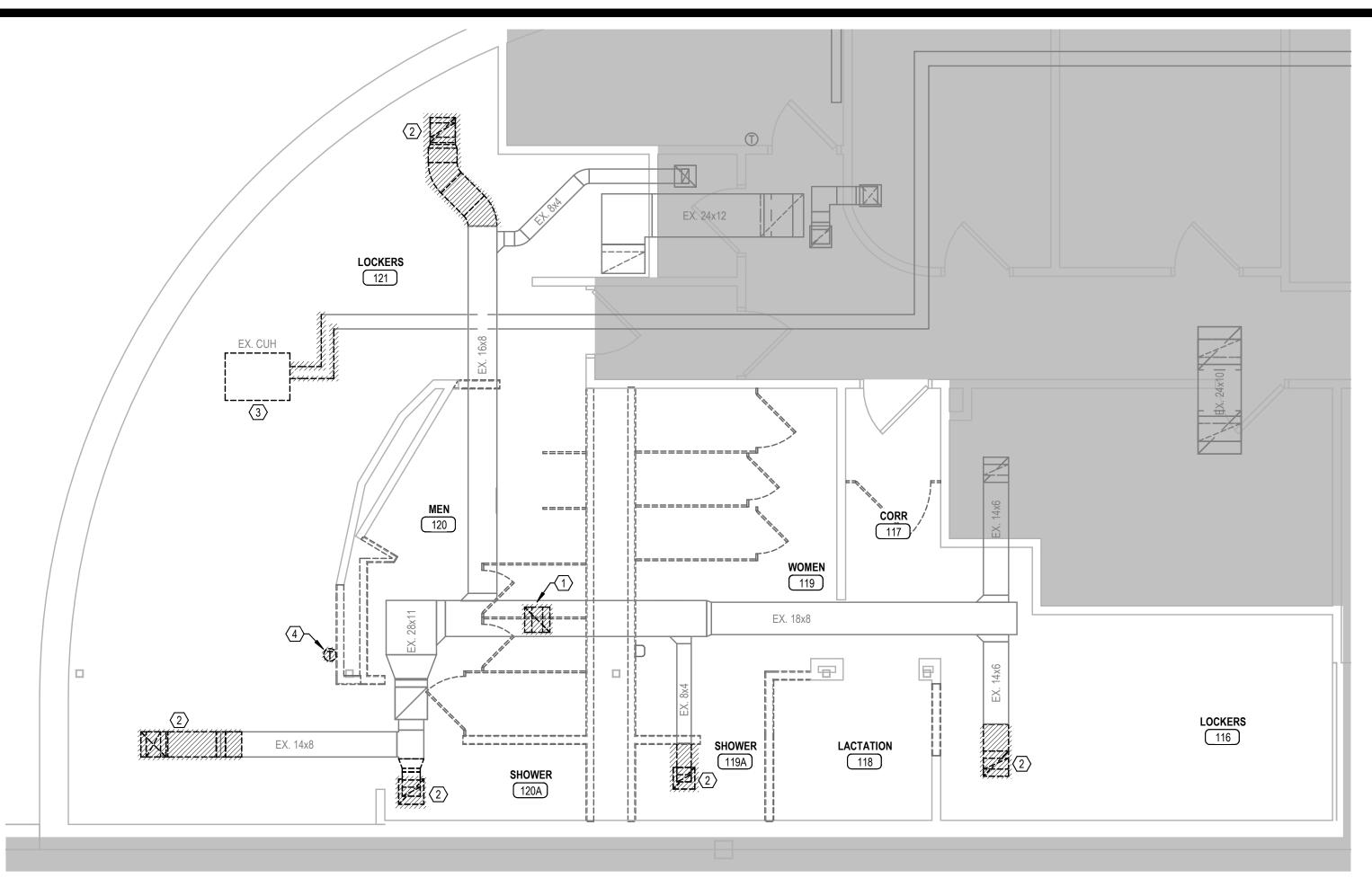
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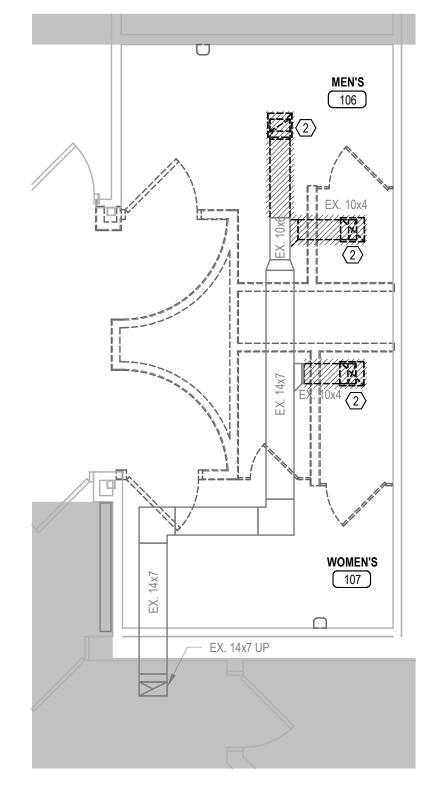
2 LEVEL 2 ADMIN TOILET ROOM MECHANICAL DEMOLITION PLAN



3 LEVEL 1 DRIVERS LOCKER ROOMS DEMOLITION PLAN - HVAC







1 LEVEL 1 ADMIN TOILET ROOM MECHANICAL DEMOLITION PLAN 1/4" = 1'-0"

KEYED SHEET NOTES

2

$\langle 1 \rangle$	DEMOLISH GRILLE IN HATCHED REGION. PATCH DUCTWORK AS REQUIRED.
2	DEMOLISH GRILLES IN HATCHED REGION SHOWN. PREPARE DUCT FOR NEW GRILLE CONNECTION.
3	REMOVE AND SALVAGE CABINET UNIT HEATER. DISCONNECT HOT WATER SUPPLY AND RETURN PIPING AND PREPARE FOR REINSTALLATION.
$\langle 4 \rangle$	REMOVE AND SALVAGE THERMOSTAT AT LOCATION SHOWN. PREPARE FOR REINSTALLATION.
5	DEMOLISH EXHAUST GRILLE AND DUCTWORK IN HATCHED REGION. PATCH DUCTWORK AS REQUIRED.
6	REMOVE THERMOSTAT AT LOCATION SHOWN.
$\langle 7 \rangle$	REMOVE AND SALVAGE FINNED TUBE RADIATION IN HATCHED REGION. DISCONNECT HOT WATER SUPPLY AND RETURN PIPING AND PREPARE FOR

REINSTALLATION.



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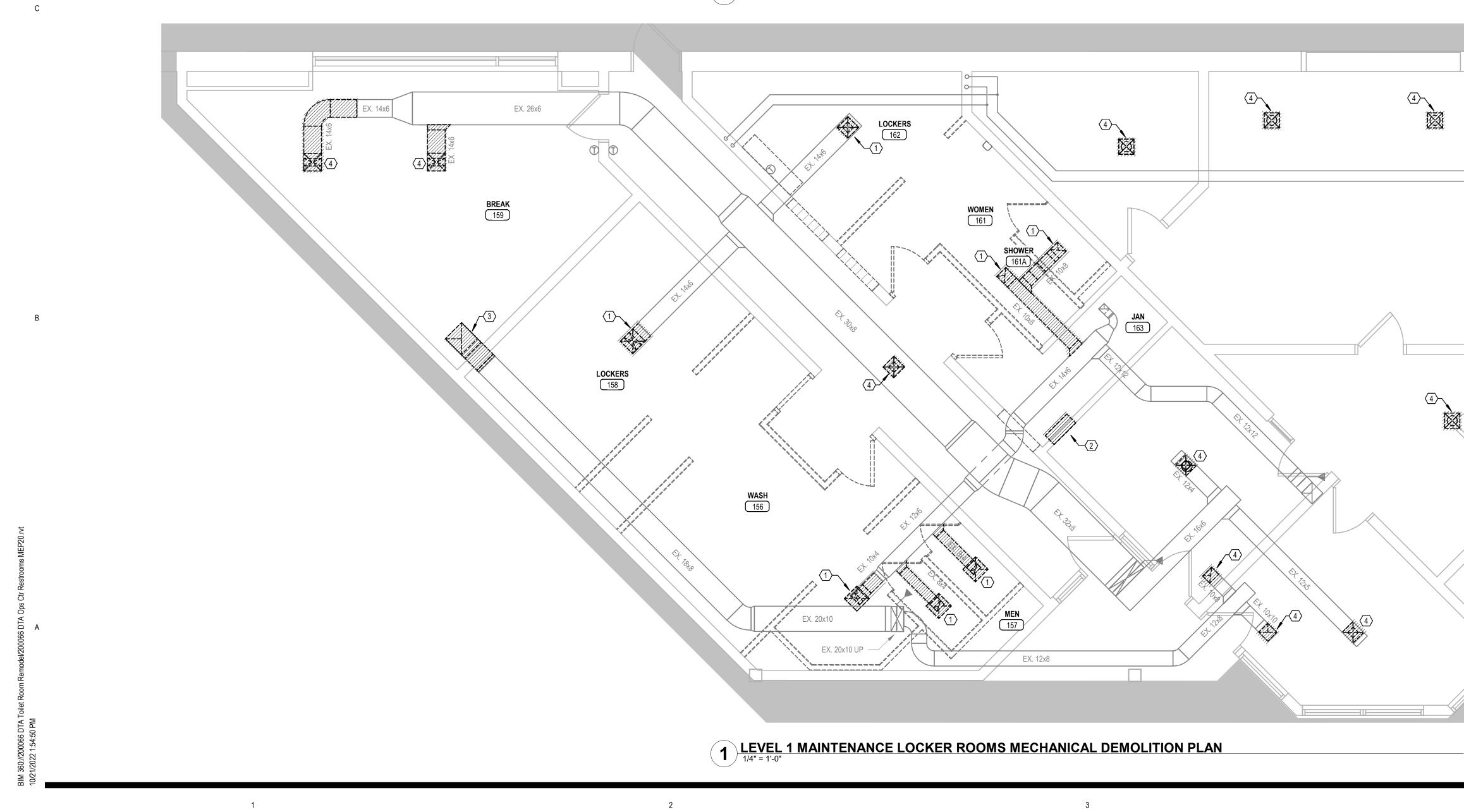
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Date: 1	0/24/2022 Re	eg. No.: 21202
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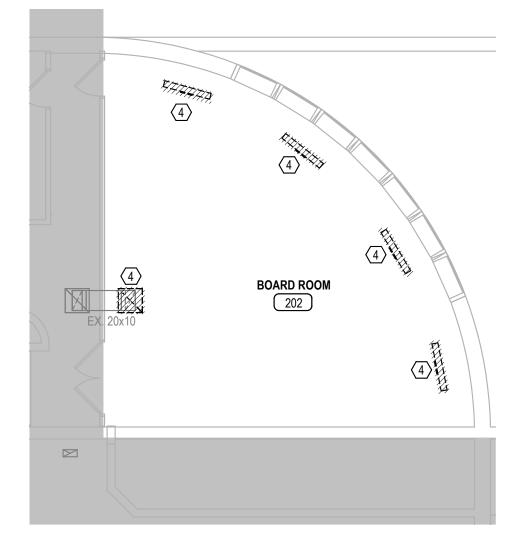


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1



2 LEVEL 2 BOARD ROOM MECHANICAL DEMOLITION PLAN

 $\langle 1 \rangle$ $\langle 2 \rangle$ $\langle 3 \rangle$ $\langle 4 \rangle$

KEYED SHEET NOTES

- DEMOLISH GRILLES, AND DUCTWORK IN HATCHED REGION. PATCH DUCTWORK AS REQUIRED.
- REMOVE THROUGH WALL AC UNIT AND HAND OVER TO OWNER.
- DEMOLISH DUCTWORK AND RETURN GRILLE IN HATCHED REGION SHOWN. PREPARE FOR NEW RETURN GRILLE.
- CEILING GRILLE, REGISTERS, AND DIFFUSERS SHALL BE SALVAGED FOR REUSE. PLACE SALVAGED GRD'S INTO NEW CEILING IN GENERALLY THE SAME LOCATION AS EXISTING. PROVIDE DUCT MODIFICATIONS AS NECESSARY TO ACCOMMODATE NEW GRID LAYOUT.



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NO DATE REVISION
I HEREBY CERTIFY that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota. Signature: Typed or Printed Name: STEWART CRAN Date: 10/24/2022 Reg. No.: 21202
COPYRIGHT 2022 BY LHB, INC. ALL RIGHTS RESERVED. PROJECT NAME: OPS CENTER OFFICE AND TOILET REMODEL 2402 WEST MICHIGAN ST. DULUTH, MINNESOTA 55806
DRAWING TITLE: LEVEL 1 & 2 MAINTENANCE LOCKER ROOMS MECHANICAL DEMOLITION PLANS
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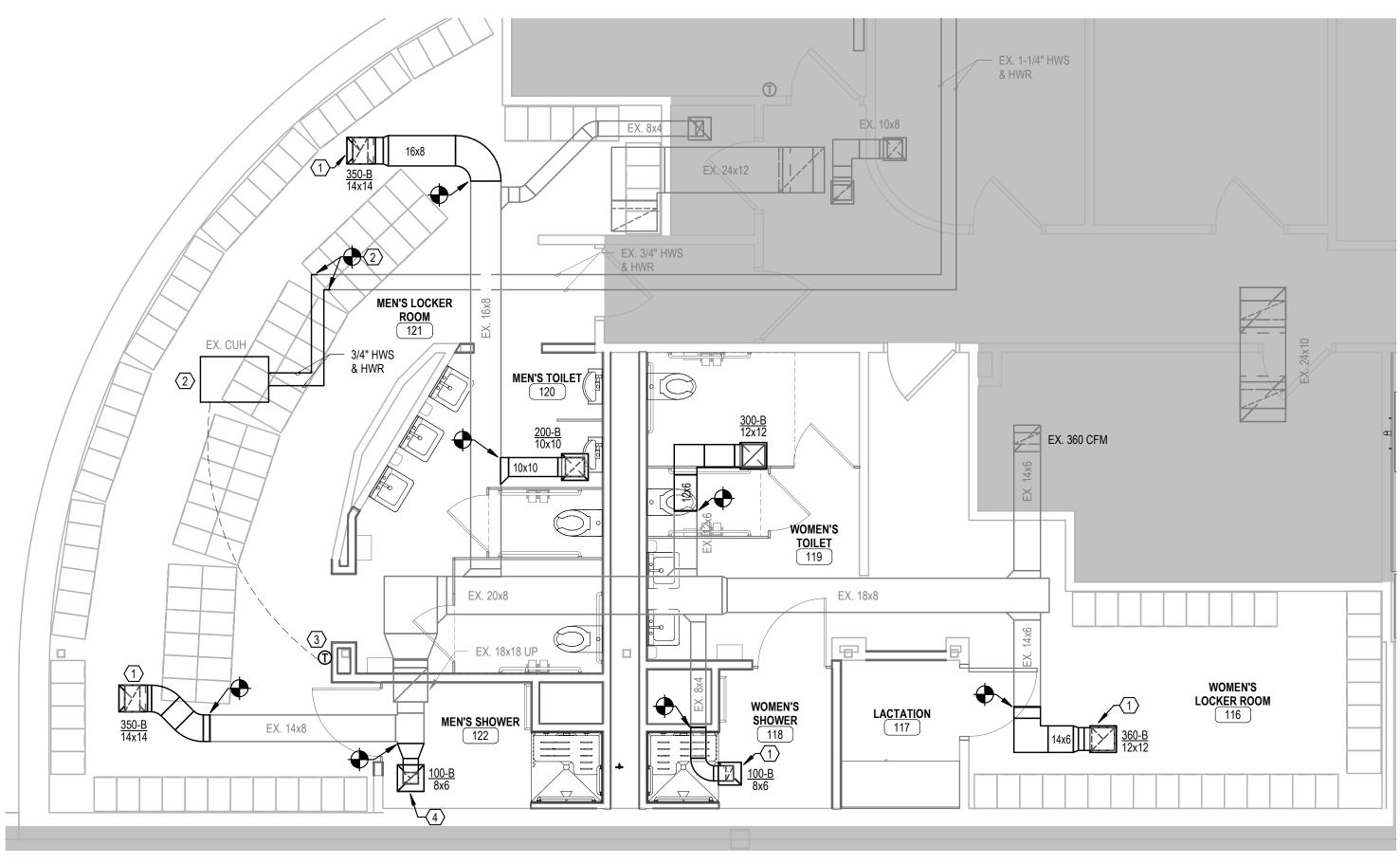
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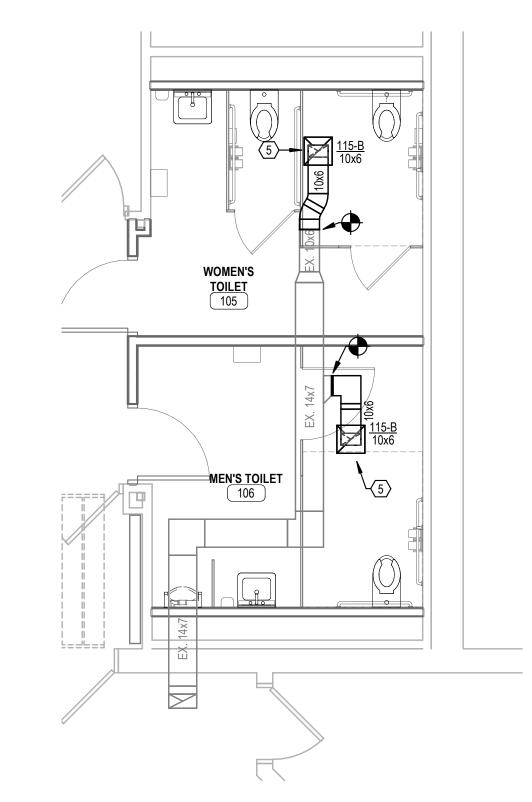
EX. 24x10 EX. VAV D 6 -(7) WOMEN'S TOILET 213 2 LEVEL 2 ADMIN TOILET ROOM MECHANICAL PLAN

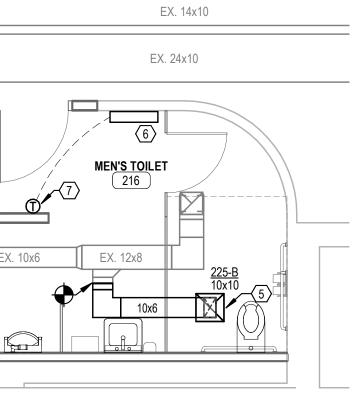
3 LEVEL 1 DRIVER LOCKER ROOMS MECHANICAL PLAN

EX. VAV 🗖

EX. 9ø







1 LEVEL 1 ADMIN TOILET ROOM MECHANICAL PLAN

KEYED SHEET NOTES

$\langle 1 \rangle$	NEW EXHAUST GRILLES AT LOCATION SHOWN. MODIFY DUCTWORK AS NECESSARY TO ACCOMMODATE NEW CEILING GRID LAYOUT.
2	RELOCATED CABINET UNIT HEATER AT LOCATION SHOWN. MODIFY AND RECONNECT HOT WATER SUPPLY AND RETURN PIPING AS SHOWN.
3	RELOCATED THERMOSTAT AT LOCATION SHOWN.
$\langle 4 \rangle$	PROVIDE NEW EXHAUST GRILLE AT LOCATION SHOWN.
5	NEW EXHAUST GRILLE AT LOCATION SHOWN. MODIFY DUCTWORK AS REQUIRED TO ACCOMMODATE NEW CEILING GRID LAYOUT. BALANCE TO 140 CFM.
6	RELOCATED FINNED TUBE AT LOCATION SHOWN. MODIFY HOT WATER SUPPLY AND RETURN PIPING AS NECESSARY.
$\langle 7 \rangle$	RELOCATED THERMOSTAT AT LOCATION SHOWN.



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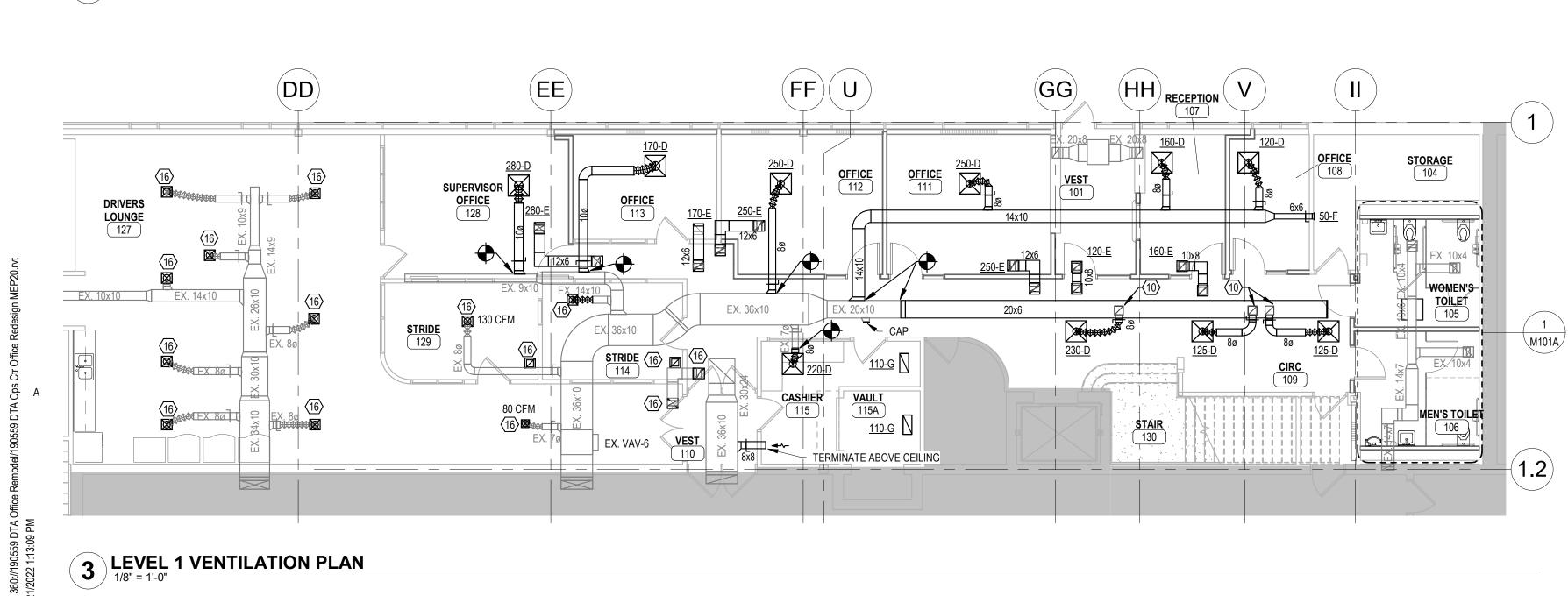
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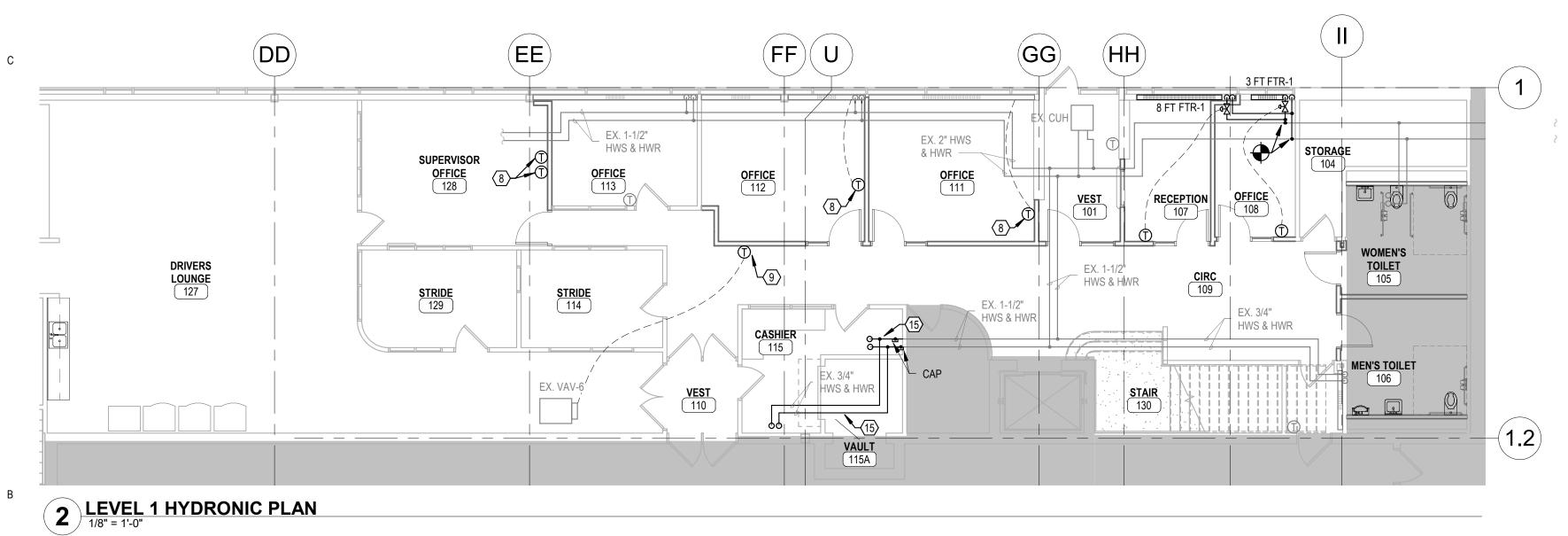
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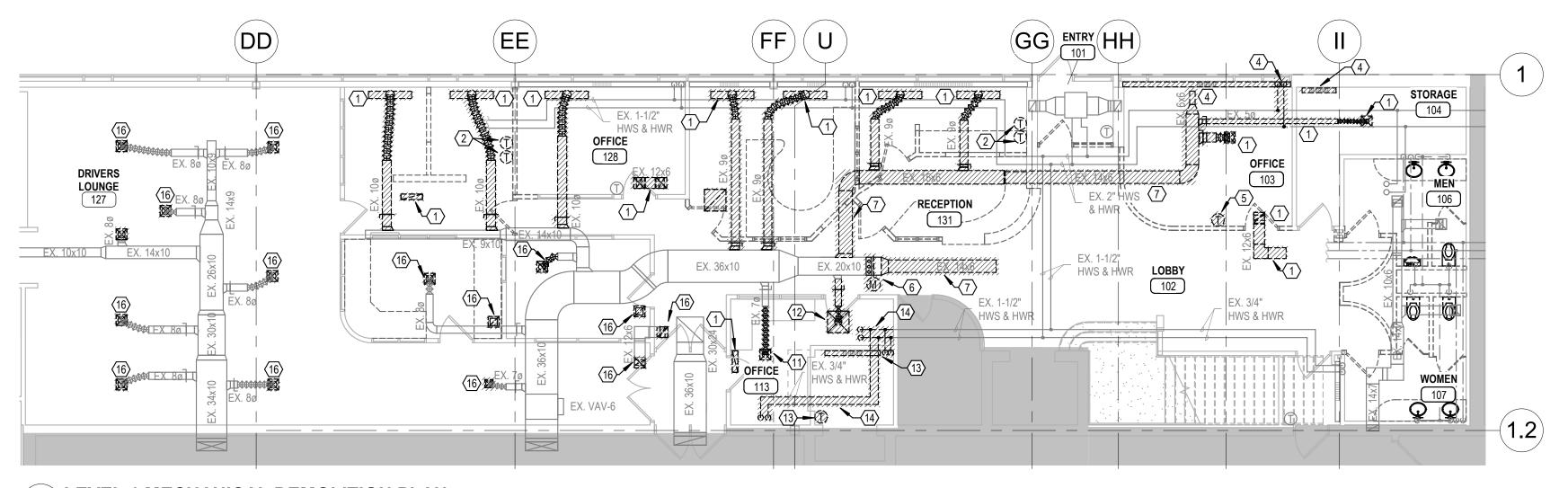


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FIRE PROTECTION NOTES

- A. REPLACE EXISTING SPRINKLER HEADS AND ESCUTCHEONS AT ALL NEW CEILING AREAS. REFER TO ARCHITECTURAL PLANS.
- B. REVISE HEAD LAYOUT AND INSTALL ADDITIONAL HEADS AS REQUIRED TO CONFORM TO NEW ROOM CONDITIONS AND MOST CURRENT NFPA 13.

|--|

REMOVE ALL DEMOLITION MATERIALS OFF SITE AND DISPOSE OF IN ACCORDANCE WITH MPCA REGULATIONS. ALL NEW HEATING WATER PIPING SHALL BE COPPER WITH SOLDERED OR PRESS FIT JOINTS. ALL NEW AND RELOCATED THERMOSTATS SHALL BE PROVIDED WITH NEW WIRES FROM THERMOSTAT TO CONTROLLED ELEMENT. NEW THERMOSTATS WILL INCLUDE ALL THE SAME FUNCTIONS AS THE EXISTING THERMOSTATS. NEW THERMOSTATS 4. SHALL NOT CONTAIN MERCURY. HVAC EQUIPMENT SHALL BE EQUIVALENT TO THE EQUIPMENT SCHEDULED AND MEET THE SCHEDULED PERFORMANCES. ALL NEW DUCTWORK SHALL BE A MINIMUM OF 26 GAUGE GALVANIZED SHEETMETAL, FABRICATED TO SMACNA 1 INCH PRESSURE CLASS, AND HAVE ALL LONGITUDINAL AND TRANSVERSE JOINTS SEALED. ALL NEW SUPPLY DUCTS SHALL BE INSULATED WITH 2 INCH THICK 1-1/2 LB/CF DENSITY FIBERGLASS WRAP INSULATION. FLEX DUCT SHALL BE INSULATED FLEX DUCT AND SHALL NOT EXCEED MORE THAN 5 FEET IN LENGTH. GRILLES, REGISTERS, AND DIFFUSERS (GRD's) SHALL BE EQUIVALENT TO SCHEDULED GRD'S AND BE OF COMMERCIAL GRADE ALL EXISTING AND NEW AIR TERMINALS ASSOCIATED WITH VAV-6 SHALL BE BALANCED AS CLOSE AS POSSIBLE TO THE 10. CFM'S LISTED ON THE PLANS.

	KEYED S
$\langle \underline{1} \rangle$	DEMOLISH DUCTWORK, DIFFUSER OR GRILLE, DAMPERS AND ALL OTHER ACCESSORIES IN HATCHED AREAS SHOWN.
2	SALVAGE THERMOSTAT FOR RELOCATION.
3	NOT USED.
$\langle 4 \rangle$	DEMOLISH FINNED TUBE RADIATION AND DISCONNECT ASSOCIATED PIPING AND CONTROLS IN HATCHED AREAS SHOWN. CAP PIPING AT MAIN.
(5)	DEMOLISH THERMOSTAT IN HATCHED AREA SHOWN.
6	REMOVE TEST HOLES AND MOTORIZED DAMPER. PREPARE DUCT FOR NEW DUCT CONNECTION.
$\langle 7 \rangle$	DEMOLISH DUCTWORK IN HATCHED AREA SHOWN. PREPARE MAIN FOR NEW DUCT ROUTING.
8	RELOCATED THERMOSTAT AT LOCATION SHOWN.
9	PROVIDE NEW THERMOSTAT SERVING VAV-6 AT LOCATION SHOWN.

- SPRINKLER HEAD LOCATIONS AND QUANTITIES TO BE IN ACCORDANCE WITH THE FOLLOWING: 1.) ALL SPRINKLERS SHALL BE OF SEMI - RECESSED
- PENDANT TYPE UNLESS NOTED OTHERWISE. 2.) SPRINKLER HEADS WITHIN 30" OF A SUPPLY DIFFUSER SHALL BE INTERMEDIATE
- TEMPERATURE HEADS. 3.) ALL SPRINKLER HEADS SHALL BE CENTERED IN
- CEILING TILES. 4.) SPRINKLER HEAD ALIGNMENT SHALL BE PERPENDICULAR AND/OR PARALLEL TO OTHER
- ELEMENTS SUCH AS SOFFITS, CEILING TILES, WALLS, ETC. UNLESS NOTED OTHERWISE. 5.) MAKE SURE SOFFITS, TEAR DROP LIGHT
- FIXTURES, ETC. DO NOT INTERFERE WITH SPRINKLER HEAD DISCHARGE PATTERNS. 6.) REMOVE AND REINSTALL ACOUSTICAL TILE AS
- REQUIRED TO PERFORM NECESSARY WORK.

SHEET NOTES

C.

- (10) INSTALL 10x10 BRANCH WITH END CAP ON TOP OF MAIN DUCT. INSTALL 8 INCH TAP WITH DAMPER ON VERTICAL BRANCH AND ROUTE FLEX DUCT THROUGH JOIST SPACE TO DIFFUSER.
- (11) REMOVE FLEX DUCT AND DIFFUSER IN HATCHED REGION SHOWN.
- (12) REMOVE DIFFUSER AND ASSOCIATED DUCT BRANCH IN HATCHED REGION SHOWN. CAP AT MAIN DUCT.
- (13) FINNED TUBE RADIATION AND ENCLOSURE SHALL BE REMOVED. ASSOCIATED CONTROLS AND PIPING TO BE REMOVED, CAP PIPING BACK AT MAIN.
- (14) REMOVE INSULATION FROM ALL PIPES IN CEILING PLENUM ABOVE OFFICE 113. PREPARE FOR NEW INSULATION.
- (15) INSTALL NEW 1-1/2 INCH INSULATION IN CEILING PLENUM ABOVE OFFICE 113.
- (16) CEILING GRILLES, REGISTERS, AND DIFFUSERS SHALL BE SALVAGED FOR REUSE. PLACE SALVAGED GRD'S INTO NEW CEILING IN GENERALLY THE SAME LOCATION AS EXISTING. PROVIDE DUCT MODIFICATIONS AS NECESSARY TO ACCOMMODATE NEW GRID LAYOUT."



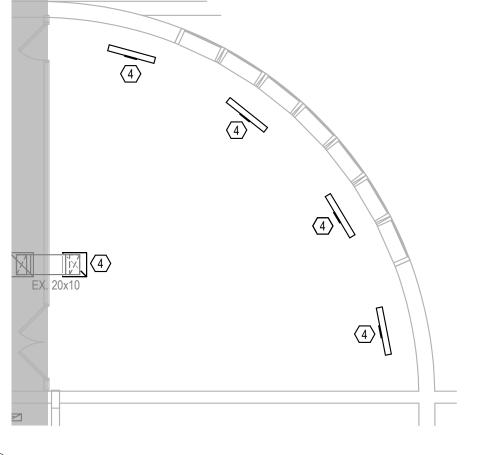
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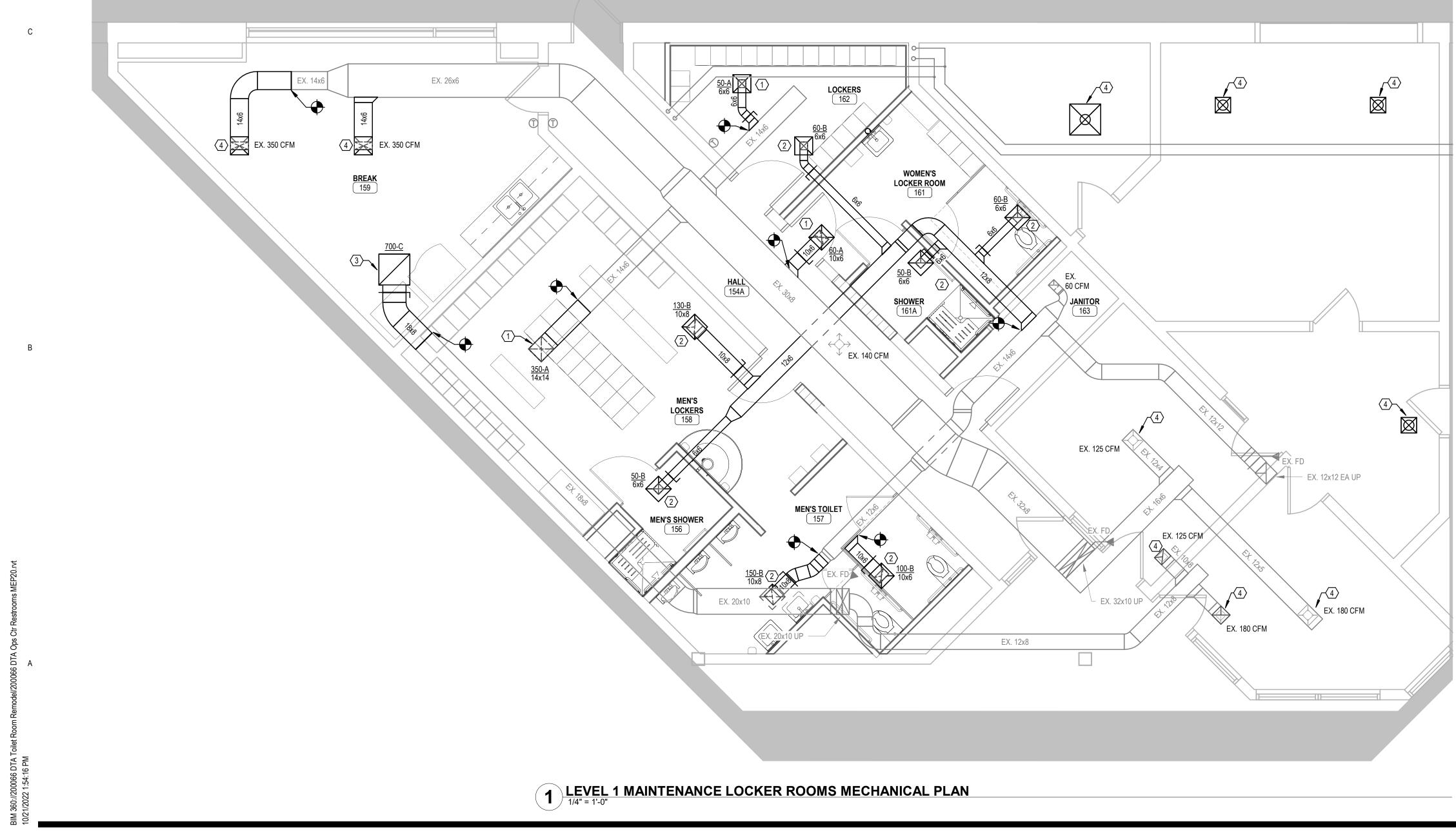








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KEYED SHEET NOTES

- $\langle 1 \rangle$ NEW SUPPLY GRILLE AT LOCATION SHOWN. MODIFY DUCTWORK AS NECESSARY TO ACCOMMODATE NEW CEILING GRID LAYOUT.
- $\langle 2 \rangle$ NEW EXHAUST GRILLE AT LOCATION SHOWN. MODIFY DUCTWORK AS NECESSARY TO ACCOMMODATE NEW CEILING GRID LAYOUT.
- 24x24 RETURN GRILLE WITH 23.8x23.8 BOX WITH 18x8 TAP. HEIGHT FIELD VERIFIED BASED ON HEIGHT OF EXISTING DUCT AND CLEARANCE BETWEEN CEILING AND BOTTOM OF MEZZANINE SLAB. $\langle 3 \rangle$
- $\langle 4 \rangle$ CEILING GRILLE, REGISTERS, AND DIFFUSERS SHALL BE SALVAGED FOR REUSE. PLACE SALVAGED GRD'S INTO NEW CEILING IN GENERALLY THE SAME LOCATION AS EXISTING. PROVIDE DUCT MODIFICATIONS AS NECESSARY TO ACCOMMODATE NEW GRID LAYOUT.



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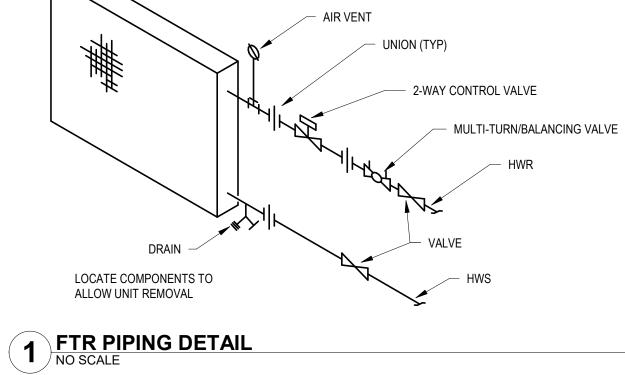
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GRILLE, REGISTER, AND DIFFUSER SCHEDULE								
UNIT NO.	MANUFACTURER & MODEL	DUTY	SIZE	VOLUME CONTROL	MATERIAL	FRAME TYPE	FINISH	NOTES
А	TITUS 300FL	SUPPLY	SEE PLANS	DUCT MOUNTED	ALUMINUM	SURF MTD	WHITE	
В	TITUS 350FL	EXHAUST	SEE PLANS	DUCT MOUNTED	ALUMINUM	SURF MTD	WHITE	
С	TITUS 50F	EXHAUST	24x24	DUCT MOUNTED	ALUMINUM	LAY-IN	WHITE	
D	OMNI	SUPPLY	24x24	DUCT MOUNTED	STEEL	LAY-IN	WHITE	
Е	TITUS 350RL	TRANSFER	12x12	NONE	STEEL	SURF MTD	WHITE	2 FOR EACH TRANSFER
F	TITUS 301RL	SUPPLY	6X6	DUCT MOUNTED	STEEL	SURF MTD	WHITE	
G	TITUS 50F	RETURN	22x10	NONE	ALUMINUM	LAY-IN	WHITE	

	FINNED TUBE RADIATION SCHEDULE							
UNIT NO.	MANUFACTURER	MODEL	OUTPUT (BTU/FT)	EAT	1/30 EWT	LWT	GPM/FT	NOTES
FTR-1	RITTLING	2 TIERS OF 3/4C-4.25x4.25-40	1280	65 °F	180 °F	160 °F	0.1	30% PG



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OPS AND 2402 \	PROJECT NAME: OPS CENTER OFFICE AND TOILET REMODEL 2402 WEST MICHIGAN ST. DULUTH, MINNESOTA 55806				
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			ELECTRICAL SYMBOL LE	EGEND				ELECTRICAL DRAWINGS
	GENERAL		TECHNOLOGY		FIRE ALARM		CONTROLS	E001 ELECTRICAL SYMBOLS AND ABBREVIATIONS
EIGHT SYMBOL TAG	<u>S DESCRIPTION</u>	HEIGHT SYMBOL TAGS	DESCRIPTION	HEIGHT SYMBOL TAGS	DESCRIPTION	HEIGHT SYMBOL TAGS	DESCRIPTION	E002 STANDARD INSTALLATION REQUIREMENTS
r∋	HALFTONE SYMBOL INDICATES EXISTING DASHED SYMBOL INDICATES REMOVED	₩ ₩ ₩ ₩	ANALOG COMMUNICATION OUTLET (# - CABLE QUANTITY; "0" - ROUGH-IN ONLY) WALL COMMUNICATION OUTLET (1 UTP CABLE, PHONE HOOK PLATE) COMMUNICATION OUTLET (# - CABLE QUANTITY; "0" - ROUGH-IN ONLY)	□ Ē	FIRE ALARM STROBE (CANDELAS) FIRE ALARM HORN FIRE ALARM HORN W/STROBE (CANDELAS)		SWITCH (2 POLE, 3-WAY, 4-WAY, KEYED, DIMMER, OCCUPANCY SENSOR, MOMENTARY CONTACT, TIME CONTROL AND TIMER)	E003 STANDARD INSTALLATION REQUIREMENTS ED101 OFFICE ELECTRICAL DEMOLITION PLANS ED102 OFFICE ELECTRCIAL DEMOLITION PLANS ED103 TOULET AND LOOKED DOOM DOWED A TECHNICLOOK
	POWER	∜# ₩	PoE LIGHTING OUTLET (# - CABLE QUANTITY; ## - DEVICE WATTAGE) COAXIAL COMMUNICATION OUTLET (# - CABLE QUANTITY; "0" - ROUGH-IN ONLY)	ES 	FIRE ALARM SPEAKER FIRE ALARM SPEAKER W/STROBE (CANDELAS)	(0) X	SWITCH W/PILOT OCCUPANCY SENSOR - TYPE DENOTED	ED103 TOILET AND LOCKER ROOM POWER & TECHNOLOG DEMOLITION PLANS ED104 TOILET AND LOCKER ROOM POWER & TECHNOLOG
IGHT SYMBOL TAG	<u>S</u> <u>DESCRIPTION</u>		WIRELESS ACCESS POINT COMMUNICATION OUTLET (# - CABLE QUANTITY;		FIRE ALARM CHIME	LS X	LIGHT LEVEL SENSOR - TYPE DENOTED	
E002 H O	SINGLE RECEPT.	₩#	"0" - ROUGH-IN ONLY)		FIRE ALARM CHIME W/STROBE (CANDELAS)	H®	EXTERIOR PHOTOCELL	ED121 OFFICE LIGHTING DEMOLITION PLANS ED122 TOILET AND LOCKER ROOM LIGHTING DEMOLITION F
E002 $\mathbf{HO}_{\#}^{XX}$	DUPLEX RECEPT. (CONTROLLED, GFCI, USB)	AV	AUDIO VISUAL SYSTEM CABLING (# - AV SYSTEM SCHEDULE REFERENCE)	ED	FIRE ALARM BELL	H	PUSH BUTTON	ED122 TOILET AND LOCKER ROOM LIGHTING DEMOLITION ED123 TOILET AND LOCKER ROOM LIGHTING DEMOLITION
	SPLIT DUPLEX RECEPT.	CX	AUDIO VISUAL SYSTEM CONTROLLER (# - AV SYSTEM SCHEDULE REFERENCE)		FIRE ALARM PULLSTATION	HD EPO	EMERGENCY POWER OFF	EP101 OFFICE POWER AND TECHNOLOGY PLANS
P P		+©	· · · · · · · · · · · · · · · · · · ·		FIRE ALARM REMOTE ANNUNCIATOR		ADA DOOR ASSIST (## REFER TO ARCH. ELEV.)	EP102 OFFICE POWER AND TECHNOLOGY PLANS
Ŕ	TAMPER-RESISTANT RECEPT (DUPLEX SHOWN)	+©AR	INTERCOMMUNICATION WALL STATION (MIN. 1 UTP CABLE)	FAA ②				EP103 TOILET AND LOCKER ROOM POWER & TECHNOLOG
r e ⊾⇔	RECEPT ON EMERGENCY CKT (DUPLEX SHOWN)		DEDICATED AREA OF REFUGE, INTERCOMMUNICATION STATION		SMOKE DETECTOR	R	VARIABLE FREQUENCY DRIVE (TYPE DENOTED)	EP104 TOILET AND LOCKER ROOM POWER & TECHNOLOGY
F₩	FOURPLEX RECEPT. (CONTROLLED, GFCI, USB)	+©vs	INTEGRATED VIDEO INTERCOMMUNICATION STATION (MIN. 1 UTP CABLE)		HEAT DETECTOR			EL121 OFFICE LIGHTING PLAN
⊨ ⊕	FOURPLEX RECEPTACLE ON OPTIONAL EMERGENCY CIRCUIT	I I I I I I I I I I I I I I I I I I I	SPEAKER	©	DUCT SMOKE DETECTOR		ENCLOSED CIRCUIT BREAKER	EL122 OFFICE LIGHTING PLANS EL123 TOILET AND LOCKER ROOM LIGHTING PLANS
		S⊲	HORN TYPE SPEAKER				MOTOR CONTROLLER	EL123 TOILET AND LOCKER ROOM LIGHTING PLANS EL124 TOILET AND LOCKER ROOM LIGHTING PLAN
	FLOOR RECEPT. (DUPLEX SHOWN)	Ϋ́ςς Ϋ́ςς	VOLUME CONTROL	Hi A	REMOTE TEST/STATUS STATION	⊠h	COMBINATION MOTOR CONTROLLER (NON-FUSED)	E601 OFFICE ELECTRICAL SCHEDULES
\odot	SPECIAL RECEPT. OR CONN. (SEE SCHEDULE)	H	MICROPHONE OUTLET	\otimes	FLAME DETECTOR	⊠h	COMBINATION MOTOR CONTROLLER (FUSED)	E602 TOILET AND LOCKER ROOM ELECTRICAL SCHEDULE
TED O∕⊕	DROP CORD	() POE	SYSTEM CLOCK (POE - MIN. 1 UTP CABLE WIRELESS OTHERWISE)	•	GAS DETECTOR		DISCONNECT SWITCH (NON-FUSED)	
TED □-∕€=	CORD REEL	нд	BELL	Ζ	FIRE ALARM ZONE ADDRESSABLE MODULE	<u> </u>	DISCONNECT SWITCH (FUSED)	
Ω×	MOTOR CONNECTION (TYPE DENOTED)	년/	BUZZER	I	FIRE ALARM INDIVIDUAL ADDRESSABLE MODULE		BUS DUCT WITH PLUG IN DISCONNECT (FUSED)	
Ū	JUNCTION BOX	- F	CHIME	FR	FIRE ALARM SHUT DOWN RELAY			
O FF	FURNITURE FEED	∔	ANTENNA	∽∛	SPRINKLER FLOW SWITCH		LIGHTNING PROTECTION	
PB	PULL BOX			∽	SPRINKLER VALVE TAMPER SWITCH			
Р	POWER POLE (SEE SPECIFICATION)		SECURITY	ELR	END OF LINE RESISTOR	HEIGHT SYMBOL TAGS	DESCRIPTION	
ANS SF#	SURFACE RACEWAY (SEE SPECIFICATIONS)		3200KIT			۲	LIGHTNING PROTECTION AIR TERMINAL	
۲ ۷ <u>۲</u> – – – – – – – – – – – – – – – – – – –	UNDERFLOOR RACEWAY SYSTEM	HEIGHT SYMBOL TAGS	DESCRIPTION		LIGHTING	Ð	GROUND ROD (PLAN VIEW)	
	CABLE TRAY (TYPE DENOTED)	H⊙t	DOOR HOLDER		LIGHTING			
	PANELBOARD (TYPE DENOTED)	\	DOOR CLOSER	HEIGHT SYMBOL TAGS	DESCRIPTION			
	SPECIAL CABINET (TYPE DENOTED)		LATCH RETRACTION		RECESSED LIGHT (TYPE DENOTED)			
T	TRANSFORMER (TYPE DENOTED)	GB	GLASS BREAK	AS NOTED OX	SURFACE LIGHT (TYPE DENOTED)			
		FS	ELECTRIC STRIKE		,			
			MAGNETIC LOCK	Y	STRIP LIGHT (TYPE DENOTED)			
	CONDUIT		COMBINATION LOCK		TRACK AND TRACK LIGHT (TYPES DENOTED)			
HT SYMBOL TAG	<u>S DESCRIPTION</u>		DOOR CONTACTS	AS NOTED \checkmark	FLOODLIGHT (TYPE DENOTED)			
	CONDUIT CONCEALED IN WALL OR OVERHEAD	HCR	CARD READER	PER SCHED	POLE MOUNTED LIGHT (TYPE DENOTED)			
	CONDUIT CONCEALED IN WALL ON OVERTILAD		KEYPAD	SEE E002	EXIT SIGN (TYPE DENOTED)			
/								
	CONDUIT EXPOSED				EMERGENCY BATTERY LIGHT (TYPE DENOTED)			
o	CONDUIT TRANSITION UP	AS NOTED	CAMERA (1 UTP CABLE FOR EVERY CAMERA SHOWN)		REMOTE EMERGENCY BATTERY LIGHT (TYPE DENOTED)			
•	CONDUIT TRANSITION DOWN	AS NOTED	CAMERA WIDE RANGE OR PAN/TILT (SEE SCHEDULE. 1 UTP CABLE FOR EVERY CAMERA SHOWN)	AS NOTED	LIGHT FIXTURE ON OPTIONAL STANDBY CIRCUIT			
	CONDUIT STUBBED OUT		,	AS NOTED	LIGHT FIXTURE ON LIFE SAFETY CIRCUIT			
Е3	CONDUIT SLEEVE (SIZE DENOTED)		DOOR SECURITY TAG (SEE SCHEDULE)					
\sim	BRANCH CIRCUIT HOME RUN							

#P	QUANTITY OF POLES (2P, 3P, ETC)	DIA	DIAMETER	HTR	HEATER	NEMA	NATIONAL ELECTRICAL	SW	SWIT
A	AMPERE	DIST DN	DISTRIBUTION DOWN	HV	HIGH VOLTAGE		MANUFACTURER'S ASSOCIATION	SWBD SYM	SWIT
AF	AMPERE AMP (FRAME)	DN	DISCONNECT SWITCH	IG	ISOLATED GROUND	NIC	NOT IN CONTRACT	3111	STIVIIV
AFF	ABOVE FINISHED FLOOR	DS	DOUBLE THROW	IMC	INTERMEDIATE METAL CONDUIT	NL	NIGHT LIGHT	TL	TWIS
AFG	ABOVE FINISHED GRADE	DWG	DRAWING	IR	INFRARED	NO	NORMALLY OPEN	TR	TAMP
AFCI	ARC FAULT CIRCUIT	DWO	DIAWING	ii x		NO	NORWALLET OF EN	TV	TELE
	INTERRUPTER	ELEC	ELECTRIC, ELECTRICAL	JBOX	JUNCTION BOX	OH	OVERHEAD	TYP	TYPIC
AL	ALUMINUM	ELEV	ELEVATOR	UDOX		on	OVERTIEND		
ALT	ALTERNATE	EM	EMERGENCY	KV	KILOVOLT	PA	PUBLIC ADDRESS	UC	UNDE
ARCH	ARCHITECT, ARCHITECTURAL	EMS	ENERGY MANAGEMENT SYSTEM	KVA	KILOVOLT-AMPERE	PF	POWER FACTOR	UE	UNDE
AS	AMP (SWITCH)	EMT	ELECTRICAL METALLIC TUBING	KVAR	KILOVOLT-AMPERE REACTIVE	PH	PHASE	ŬĠ	UNDE
AT	AMP (TRIP)	EQUIP	EQUIPMENT	KW	KILOWATT	PIV	POST INDICATING VALVE	UT	UNDE
ATS	AUTOMATIC TRANSFER SWITCH	EWC	ELECTRIC WATER COOLER	KWH	KILOWATT HOUR	PNL	PANEL	UTIL	UTILI
AUTO	AUTOMATIC	EXIST	EXISTING			PP	POWER POLE	UV	ULTR
AUX	AUXILIARY			LTG	LIGHTING	PRJ	PROJECTOR		
AV	AUDIO VISUAL	FA	FIRE ALARM	LV	LOW VOLTAGE	PRV	POWER ROOF VENTILATOR	V	VOLT
AWG	AMERICAN WIRE GAUGE	FACP	FIRE ALARM CONTROL PANEL			PT	POTENTIAL TRANSFORMER	VA	VOLT
		FLR	FLOOR	MAX	MAXIMUM	PVC	POLYVINYL CHLORIDE	VFD	VARIA
BLDG	BUILDING	FU	FUSE	MCB	MAIN CIRCUIT BREAKER		(CONDUIT)		
BMS	BUILDING MANAGEMENT	FDS	FUSED DISCONNECT SWITCH	MCC	MOTOR CONTROL CENTER	PWR	POWER	W	WATT
	SYSTEM			MDP	MAIN DISTRIBUTION PANEL			WR	WEAT
		GA	GAUGE	MFR	MANUFACTURER	QTY	QUANTITY		
С	CONDUIT	GALV	GALVANIZED	MH	MANHOLE			XFMR	TRAN
CAB	CABINET	GC	GENERAL CONTRACTOR	MIC	MICROPHONE	RCPT	RECEPTACLE		
CATV	CABLE TELEVISION	GEN	GENERATOR	MIN	MINIMUM	REQ	REQUIRED		
CB	CIRCUIT BREAKER	GFCI	GROUND FAULT CIRCUIT	MISC	MISCELLANEOUS	RM	ROOM		
CCTV	CLOSED CIRCUIT TELEVISION		INTERRUPTER	MLO	MAIN LUGS ONLY	RSC	RIGID STEEL CONDUIT		
CKT	CIRCUIT	GFP	GROUND FAULT PROTECTOR	MOA	MULTIOUTLET ASSEMBLY			@	AT
CLG	CEILING	GND	GROUND	MSBD	MAIN SWITCHBOARD	SIM	SIMILAR	Δ	DELT
COMB	COMBINATION	GRS	GALVANIZED RIGID STEEL	MTS	MANUAL TRANSFER SWITCH	SCCR	SHORT CIRCUIT CURRENT RATING	1	FEET
CONST	CONSTRUCTION		(CONDUIT)	MTR	MOTOR, MOTORIZED	SPEC	SPECIFICATION	"	INCHE
CONTR	CONTRACTOR	GYP	GYPSUM BOARD			SPKR	SPEAKER	#	NUMB
СТ	CURRENT TRANSFORMER			NC	NORMALLY CLOSED	SP	SPARE	Ø	PHAS
CTL	CONTROLLED	HH	HANDHOLE	NEC	NATIONAL ELECTRICAL CODE	SS	STAINLESS STEEL	¢	CENT
CTD	CENTER	HOA	HAND-OFF-AUTOMATIC SWITCH			STD	STANDARD		
CTR CU	COPPER	HP	HORSEPOWER			SURF	SURFACE MOUNTED		

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		ELECTRICAL SYMBOL LE		ΝΟΤΑΤ
CH CHBOARD METRICAL T LOCK PER RESISTANT VISION CAL ER COUNTER ERGROUND ELECTRICAL ERGROUND TELEPHONE TY RAVIOLET	$\begin{array}{c} \hline \\ A2 \\ \hline \\ A2 \\ 12b \\ \hline \\ \hline \\ \hline \\ A2 \\ 2ab \end{array}$	THE LIGHTING FIXTURE TYPE IS INDICATED BY AN UPPER CASE LETTER. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. THE SWITCH DESIGNATION IS INDICATED BY A LOWER CASE LETTER. EXAMPLE 1: LIGHTING FIXTURE TYPE "A" IS CONNECTED TO CIRCUIT 12 AND CONTROLLED BY SWITCH "b". EXAMPLE 2: THE FIXTURE TYPE SHOWN AS A NUMERATOR INDICATES ALL LIGHTING FIXTURES IN THE ROOM OR SPACE ARE THE SAME TYPE. THE CIRCUIT NUMBER AND SWITCH DESIGNATION SHOWN AS A DENOMINATOR INDICATES ALL LIGHTING FIXTURES IN THE ROOM OR SPACE ARE THE SAME TYPE. THE CIRCUIT NUMBER AND SWITCH DESIGNATION SHOWN AS A DENOMINATOR INDICATES ALL LIGHTING FIXTURES IN THE ROOM OR SPACE ARE CONNECTED TO THE SAME CIRCUIT, CONTROLLED BY THE SAME		HAT CAN BE EITH DTATION FOR THE A LEG OFF TH MULTIPOINT E DEVICE SYMB MOUNTED CO
- -AMPERES ABLE FREQUENCY DRIVE I INFORMER	240 ⊗ ↑ E 14	SWITCHES, CENTER / OUTBOARD MULTILEVEL SWITCHING. EXIT LIGHTS. SHADED AREA INDICATES ILLUMINATED FACE(S). ARROW INDICATES DIRECTIONAL ARROW ON ILLUMINATED FACE(S). EXAMPLE: THE EXIT LIGHT TYPE "E" WITH SINGLE FACE AND DIRECTIONAL ARROW IS CONNECTED TO CIRCUIT	14.	
	if © 16c	DEVICES. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. THE SWITCH DESIGNATION IS INDICATED BY A LOWER CASE LETTER. EXAMPLE: SPLIT DUPLEX RECEPTACLE IS CONNECTED TO CIRCUIT 16 AND ONE RECEPTACLE OUTLET IS CONTROLLED BY SWITCH "c".		
A ES BER	ко ^d	THE LINE VOLTAGE ZONE DESIGNATION IS INDICATED BY A LOWER CASE LETTER. EXAMPLE: SINGLE POLE SWITCH "d" TO CONTROL LIGHTING FIXTURES INDICATED BY "d".		
SE TER LINE	L-1-1	PANELBOARDS. PANELBOARD DOORS MAY BE SHOWN TO INDICATE OPENING SIDE OF RECESSED PANELBOARDS. SEE PANELBOARD IDENTIFICATION FOR DESIGNATION CODES.		
		CONDUIT SHOWN SHALL CONTAIN 2 # 12 CONDUCTORS IN 3/4" CONDUIT UNLESS SPECIFIC EQUIPMENT REQUIRES A DIFFERENT SIZE.		
	<u>L-1-1</u> 1,3,5	HOME RUN TO BRANCH CIRCUIT PANELBOARD. THE PANELBOARD DESIGNATION IS SHOWN ADJACENT TO THE HOME RUN ARROW AS A NUMERATOR AND THE CIRCUIT DESIGNATION IS SHOWN AS THE DENOMINATOR. CIRCUIT BREAKER SIZES (AMPS/NUMBER OF POLES) ARE SHOWN IN THE PANELBOARD SCHEDULE WITH THE CORRESPONDING PANELBOARD AND CIRCUIT DESIGNATION. EXAMPLE: HOME RUN TO PANELBOARD L-1-1; CIRCUITS 1, 3, 5.		

CTRICAL DRAWINGS

- ELECTRICAL SYMBOLS AND ABBREVIATIONS STANDARD INSTALLATION REQUIREMENTS STANDARD INSTALLATION REQUIREMENTS OFFICE ELECTRICAL DEMOLITION PLANS OFFICE ELECTRCIAL DEMOLITION PLANS TOILET AND LOCKER ROOM POWER & TECHNOLOGY DEMOLITION PLANS TOILET AND LOCKER ROOM POWER & TECHNOLOGY DEMOLITION PLAN
- OFFICE LIGHTING DEMOLITION PLANS
- TOILET AND LOCKER ROOM LIGHTING DEMOLITION PLANS TOILET AND LOCKER ROOM LIGHTING DEMOLITION PLAN
- OFFICE POWER AND TECHNOLOGY PLANS
- OFFICE POWER AND TECHNOLOGY PLANS
- TOILET AND LOCKER ROOM POWER & TECHNOLOGY PLANS TOILET AND LOCKER ROOM POWER & TECHNOLOGY PLAN OFFICE LIGHTING PLAN
- OFFICE LIGHTING PLANS
- TOILET AND LOCKER ROOM LIGHTING PLANS
- TOILET AND LOCKER ROOM LIGHTING PLAN
- OFFICE ELECTRICAL SCHEDULES



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ION

HER WALL, SURFACE OR SUSPENDED MOUNTED SHALL UTILIZE THE E MOUNTING REQUIREMENTS:

HE DEVICE SYMBOL IS FOR THE WALL MOUNTED CONDITION. DOTS ON DEVICE SYMBOL IS FOR THE SUSPENDED CONDITION. BOL WITH NO ADDITIONAL ITEMS SHALL BE SURFACE / CEILING ONDITION.

Professional Engineer under the laws of the State of Minnesota. Signature: _____///////// Typed or Printed Name: MARK J. VINCENT Date: 10/24/2022 Reg. No.: 52349 COPYRIGHT 2022 BY LHB, INC. ALL RIGHTS RESERVED. PROJECT NAME: **OPS CENTER OFFICE** AND TOILET REMODEL 2402 WEST MICHIGAN ST. DULUTH, MINNESOTA 55806 DRAWING TITLE:

I HEREBY CERTIFY that this plan, specification or

report was prepared by me or under my direct supervision and that I am a duly Licensed

ELECTRICAL SYMBOLS AND ABBREVIATIONS

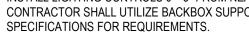
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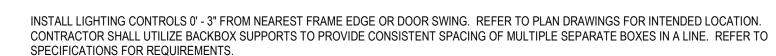
1 TYPICAL DEVICE MOUNTING DETAIL NOT TO SCALE

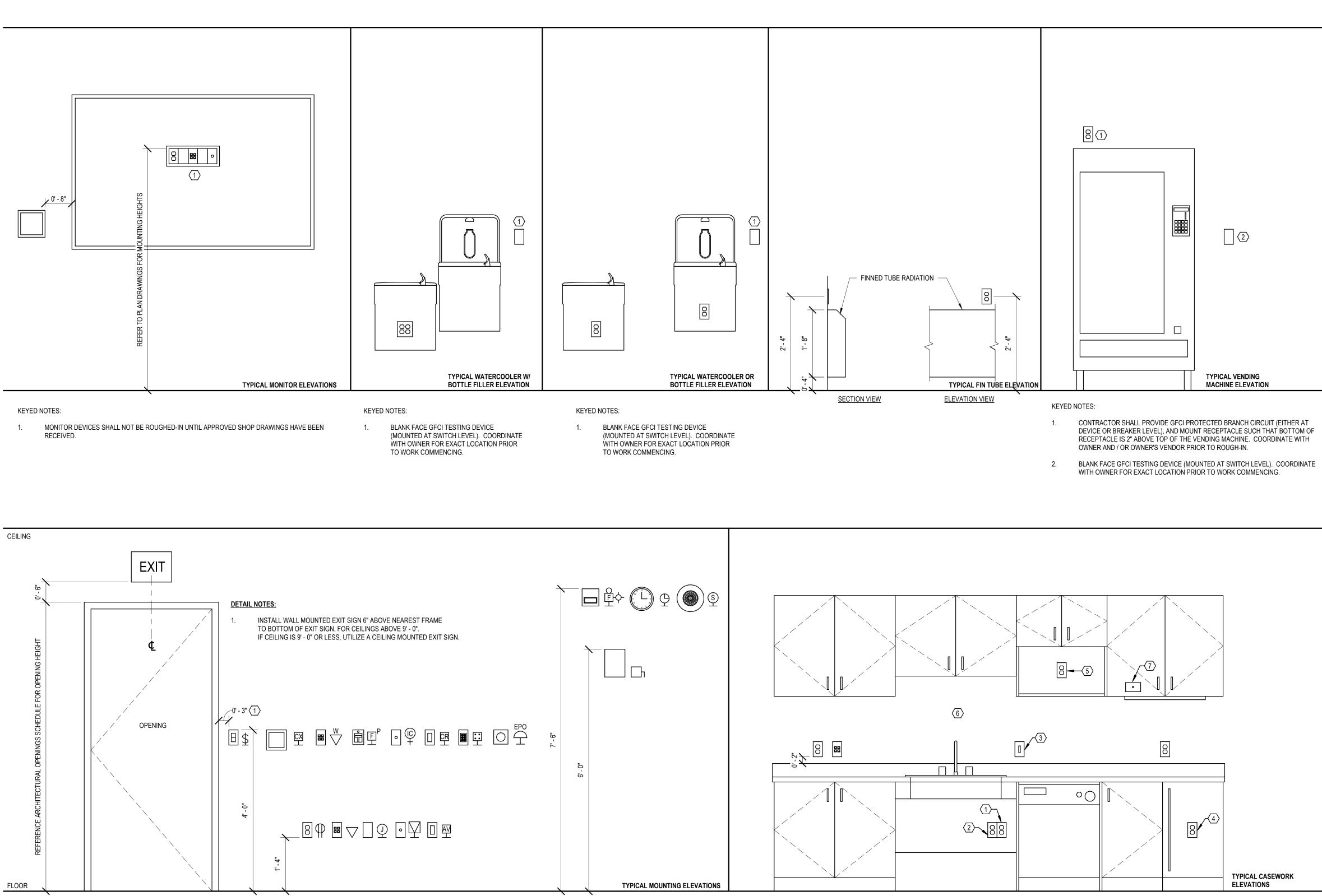
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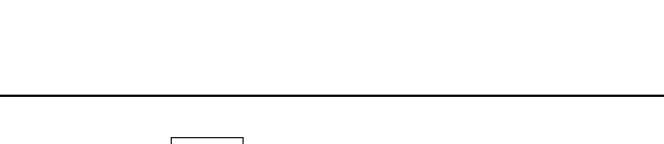


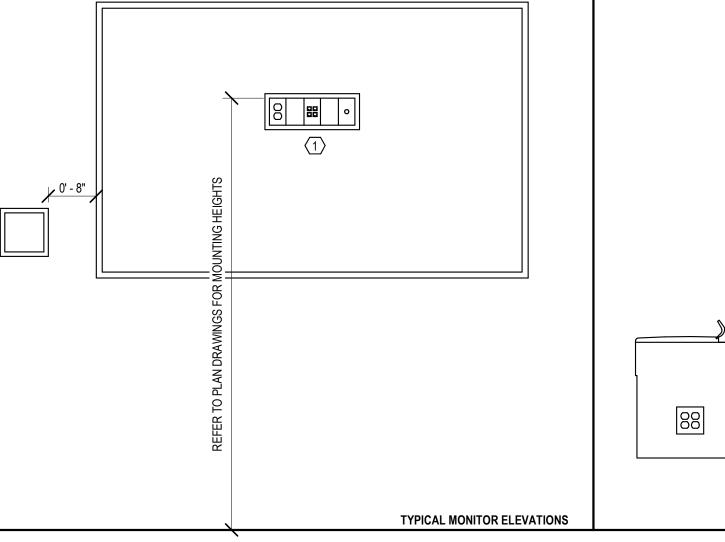


KEYED NOTES:









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KEYED NOTES:

- GFCI RECEPTACLE SERVING DISHWASHER. PROVIDE GROMMET THROUGH SIDE PANEL OF SINK CABINET. 1.
- GFCI RECEPTACLE SERVING DISPOSER. 2.
- SWITCH TO CONTROL DISPOSER. 3.
- GFCI RECEPTACLE SERVING UNDERCOUNTER REFRIGERATOR; INSTALL RECEPTACLE CENTERED IN OPENING. 4.
- RECEPTACLE SERVING MICROWAVE; INSTALL RECEPTACLE CENTERED IN OPENING. CUT HOLE IN BACK OF CASEWORK TO ACCOMMODATE RECEPACLE. 5.
- DIVISION 26 CONTRACTOR SHALL REVIEW CASEWORK SHOP DRAWING SUBMITTALS PRIOR TO ANY ROUGH-IN WORK COMMENCING. 6.
- 7. JUNCTION BOX SERVING UNDERCABINET LIGHT. CUT HOLE IN BACK OF CASEWORK TO ACCOMMODATE RECEPTACLE.



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	THIS SQUARE A ON FULL SIZE S	APPEARS 1/2"x1/2" SHEETS				
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supervis Professi of Minne Signature Typed or	sion and that I a onal Engineer u esota. : Printed Name:M	me or under my direct m a duly Licensed under the laws of the State ARK J. VINCENT Reg. No.: <u>52349</u>				
PROJECT I OPS AND 2402	COPYRIGHT 2022 BY LHB, INC. ALL RIGHTS RESERVED. PROJECT NAME: OPS CENTER OFFICE AND TOILET REMODEL 2402 WEST MICHIGAN ST. DULUTH, MINNESOTA 55806					
STA INST	DRAWING TITLE: STANDARD INSTALLATION REQUIREMENTS					

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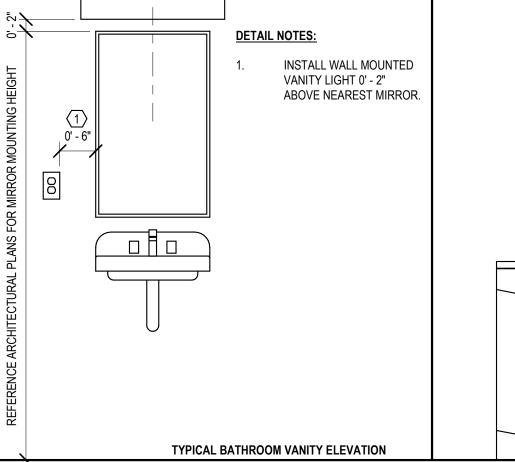


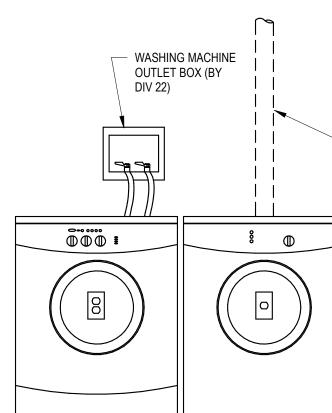
1 TYPICAL DEVICE MOUNTING DETAIL (CONTINUED)

INSTALL RECEPTACLE 0' - 6" FROM NEAREST MIRROR EDGE. 1. REFER TO PLAN DRAWINGS FOR INTENDED LOCATION. CONTRACTOR SHALL UTILIZE BACKBOX SUPPORTS TO PROVIDE CONSISTENT SPACING OF MULTIPLE SEPARATE BOXES IN A LINE. REFER TO SPECIFICATIONS FOR REQUIREMENTS.



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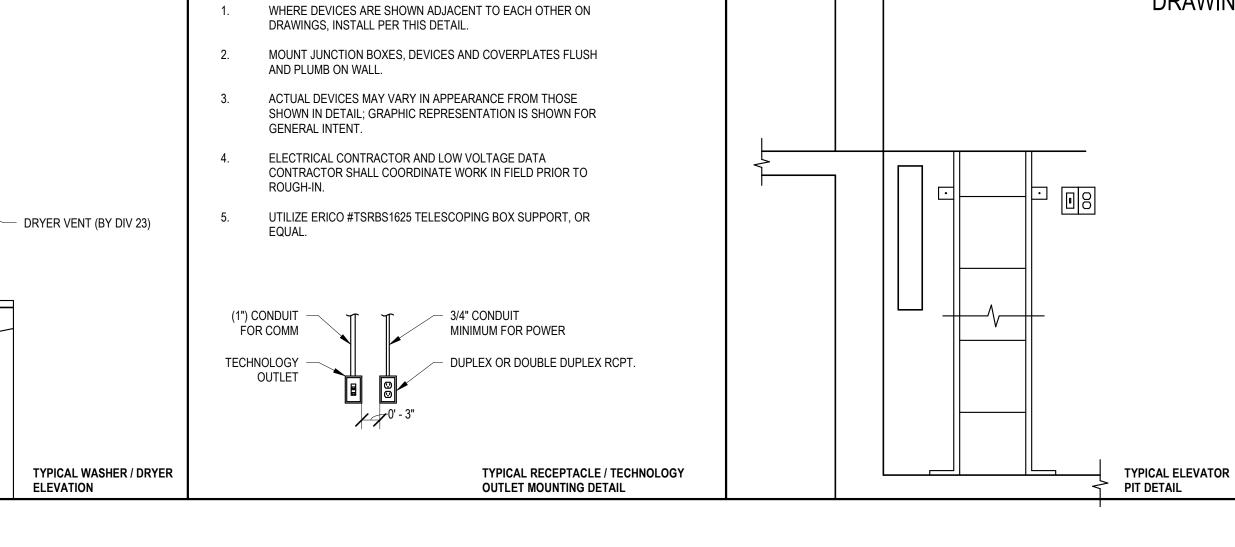
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DETAIL NOTES:

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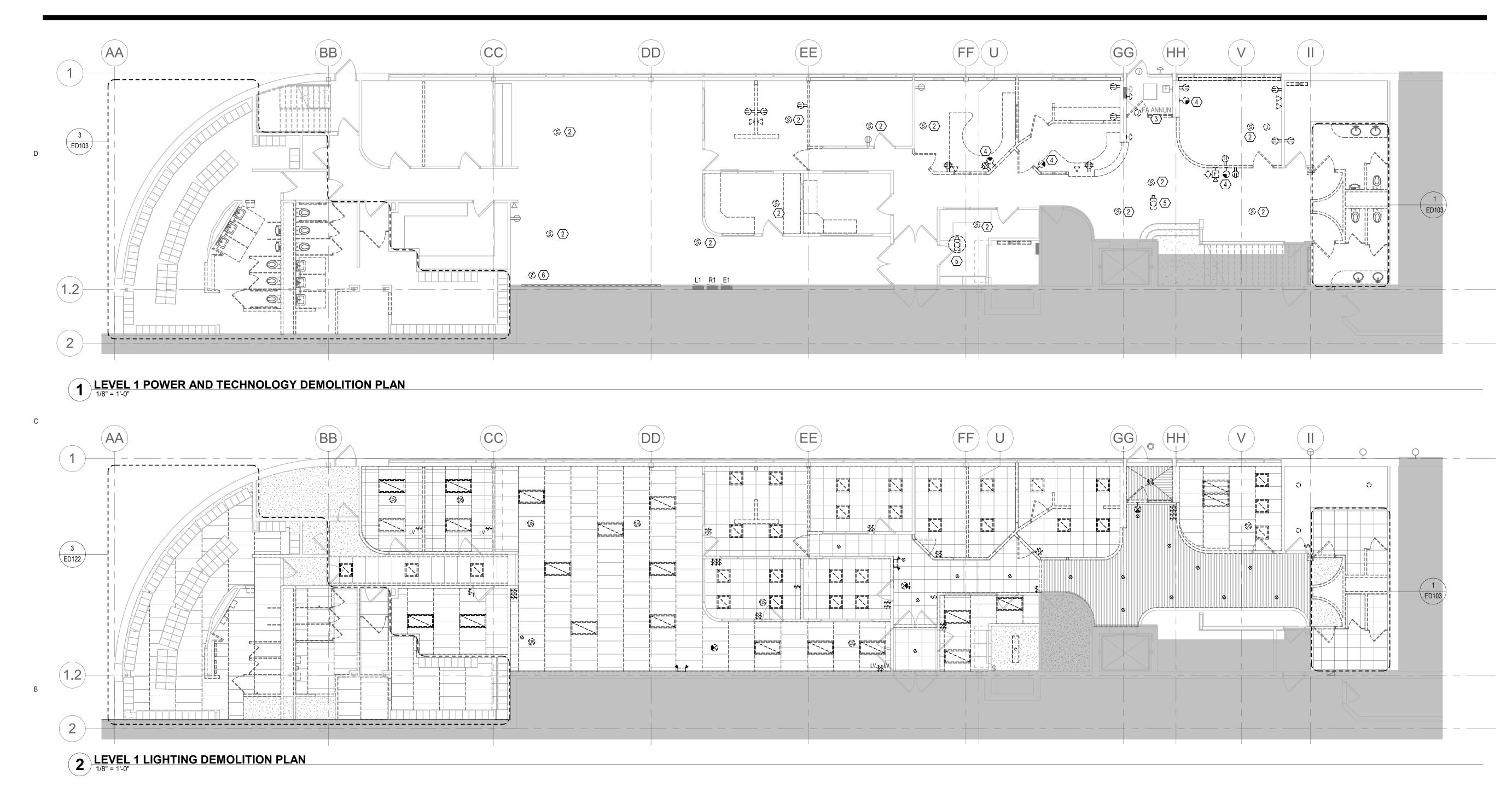
CLIENT: **DULUTH TRANSIT** AUTHORITY (DTA) 2402 WEST MICHIGAN ST. DULUTH, MINNESOTA 55806

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> DRAWN BY: AML CHECKED BY: MJV PROJ. NO: 190559 DRAWING NO:

NOTE: NOT ALL INSTANCES SHOWN IN THIS DETAIL ARE UTILIZED ON THE DRAWINGS.

4





Α.	REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR	E.	EXISTING LIGHTING FIXTURES AND DEVICES SHOWN ON THIS
	PHASES OF DEMOLITION. COORDINATE WITH GENERAL CONSTRUCTION.		DRAWING ARE BASED ON CASUAL FIELD OBSERVATION AND EXISTING DRAWINGS (IF AVAILABLE). IT IS THE ELECTRICAL CONTRACTOR'S
			RESPONSIBILITY, PRIOR TO BIDDING, TO FIELD VERIFY EXISTING
В.	EXISTING ELECTRICAL DEVICES AND EQUIPMENT SHOWN ON THIS		CONDITIONS TO DETERMINE THE EXTENT OF THE ELECTRICAL
	DRAWING ARE BASED ON CASUAL FIELD OBSERVATION AND EXISTING DRAWINGS (IF AVAILABLE). IT IS THE ELECTRICAL CONTRACTOR'S		DEMOLITION WORK REQUIRED.
	RESPONSIBILITY, PRIOR TO BIDDING, TO FIELD VERIFY EXISTING	F.	DISCONNECT AND REMOVE ALL LIGHTING FIXTURES AND DEVICES IN
	CONDITIONS TO DETERMINE THE EXTENT OF THE ELECTRICAL		PROJECT AREA, UNLESS NOTED OTHERWISE. REMOVE ASSOCIATED
	DEMOLITION WORK REQUIRED.		CONDUIT AND WIRING BACK TO LAST REMAINING DEVICE, UNLESS
C.	DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES AND		NOTED OTHERWISE. PROVIDE NEW CONDUIT AND WIRING AS NECESSARY FOR CONTINUITY OF FEEDERS / BRANCH CIRCUITS TO
0.	EQUIPMENT IN PROJECT AREA, UNLESS NOTED OTHERWISE.		LIGHTING FIXTURES AND / OR DEVICES TO REMAIN, COORDINATE AND
	REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO LAST		VERIFY REQUIREMENTS WITH NEW WORK IN AREA.
	REMAINING DEVICE, UNLESS NOTED OTHERWISE. PROVIDE NEW		
	CONDUIT AND WIRING AS NECESSARY FOR CONTINUITY OF FEEDERS/ BRANCH CIRCUITS TO ELECTRICAL DEVICES AND / OR	G.	PROVIDE CONDUIT AND ELECTRICAL WIRING AS NECESSARY FOR CONTINUITY OF FEEDERS / BRANCH CIRCUITS ORIGINATING OUTSIDE
	EQUIPMENT TO REMAIN, COORDINATE AND VERIFY REQUIREMENTS		THE DEMOLITION AREA THAT SERVE ANY LIGHTING FIXTURES AND /
	WITH NEW WORK IN AREA.		OR DEVICES TO REMAIN.
P		H.	
D.	PROVIDE BLANK COVERPLATES FOR EXISTING UNUSED JUNCTION BOX OPENINGS TO REMAIN.	п.	PROVIDE BLANK COVERPLATES FOR EXISTING UNUSED JUNCTION BOX OPENINGS TO REMAIN.
		I.	DISCONNECT AND REMOVE WALL-MOUNTED LIGHTING SWITCHES /
			CONTROLS TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

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CLIENT: **DULUTH TRANSIT** AUTHORITY (DTA) 2402 WEST MICHIGAN ST. DULUTH, MINNESOTA 55806

KEYED SHEET NOTES

OT USED.

EMOVE AND SALVAGE EXISTING SPEAKER FOR RE-INSTALLATION. ETAIN EXISTING SPEAKER CABLE FOR CONNECTION TO SPEAKER IN EW LOCATION WITHIN THE SAME VICINITY.

EMOVE AND SALVAGE EXISTING FIRE ALARM ANNUNCIATOR PANEL OR RE-INSTALLATION.

EMOVE AND SALVAGE EXISTING CLOCK FOR RE-INSTALLATION.

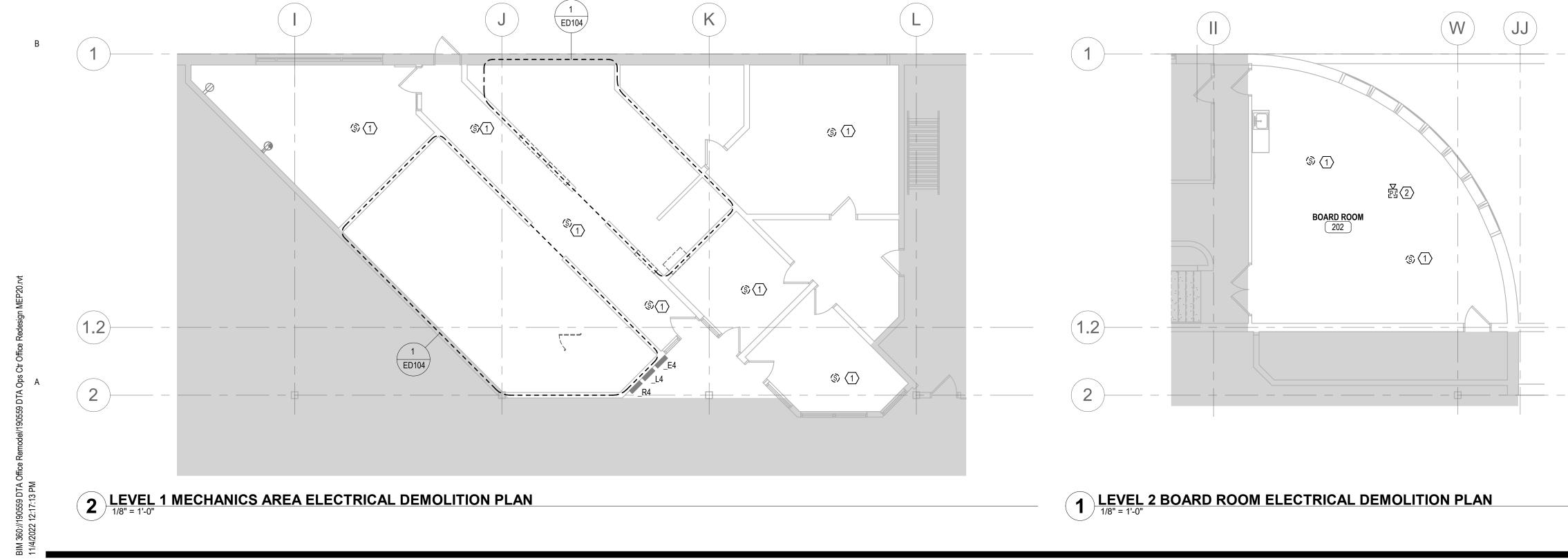
EMOVE AND SALVAGE EXISTING CAMERA FOR RE-INSTALLATION.

EMOVE AND SALVAGE EXISTING SMOKE DETECTOR FOR RE-STALLATION.

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DRAWN BY: AML CHECKED BY: MJV PROJ. NO: 190559 DRAWING NO:

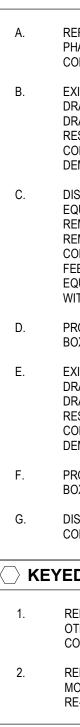




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GENERAL SHEET NOTES

REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION. COORDINATE WITH GENERAL CONSTRUCTION.

EXISTING ELECTRICAL DEVICES AND EQUIPMENT SHOWN ON THIS DRAWING ARE BASED ON CASUAL FIELD OBSERVATION AND EXISTING DRAWINGS (IF AVAILABLE). IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY, PRIOR TO BIDDING, TO FIELD VERIFY EXISTING CONDITIONS TO DETERMINE THE EXTENT OF THE ELECTRICAL DEMOLITION WORK REQUIRED.

C. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES AND EQUIPMENT IN PROJECT AREA, UNLESS NOTED OTHERWISE. REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO LAST REMAINING DEVICE, UNLESS NOTED OTHERWISE. PROVIDE NEW CONDUIT AND WIRING AS NECESSARY FOR CONTINUITY OF FEEDERS/ BRANCH CIRCUITS TO ELECTRICAL DEVICES AND / OR EQUIPMENT TO REMAIN, COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

> PROVIDE BLANK COVERPLATES FOR EXISTING UNUSED JUNCTION BOX OPENINGS TO REMAIN.

E. EXISTING LIGHTING FIXTURES AND DEVICES SHOWN ON THIS DRAWING ARE BASED ON CASUAL FIELD OBSERVATION AND EXISTING DRAWINGS (IF AVAILABLE). IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY, PRIOR TO BIDDING, TO FIELD VERIFY EXISTING CONDITIONS TO DETERMINE THE EXTENT OF THE ELECTRICAL DEMOLITION WORK REQUIRED.

> PROVIDE BLANK COVERPLATES FOR EXISTING UNUSED JUNCTION BOX OPENINGS TO REMAIN.

DISCONNECT AND REMOVE WALL-MOUNTED SWITCHES / CONTROLS TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

KEYED SHEET NOTES

4

REMOVE EXISTING SPEAKER TO FACILITATE CEILING WORK BY OTHER TRADES. RETAIN SPEAKER AS WELL AS CONDUIT, CONDUCTORS AND CABLES FOR RE-INSTALLATION IN SAME VICINITY.

REMOVE RECEPTACLE AND DATA OUTLET FROM CEILING PROJECTOR MOUNT. RETAIN CONDUIT, CONDUCTORS AND ALL A/V CABLES FOR RE-INSTALLATION IN SAME VICINITY.



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Signature:	1/6	h /ut		
T	inted Name: M	ARK J. VINCENT		
	24/2022	Reg. No.: 52349		
Date: 10/2		Reg. No.: <u>52349</u> NC. ALL RIGHTS RESERVED.		
Date: 10/2 COPYRIGHT PROJECT N. OPS AND	AME: CENT TOILE			

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DEMOLITION PLANS

CHECKED BY: MJV PROJ. NO: 190559 DRAWING NO:



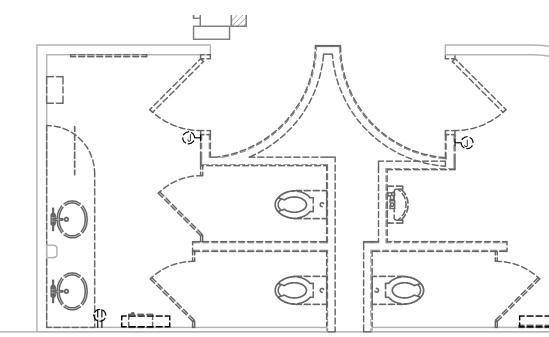
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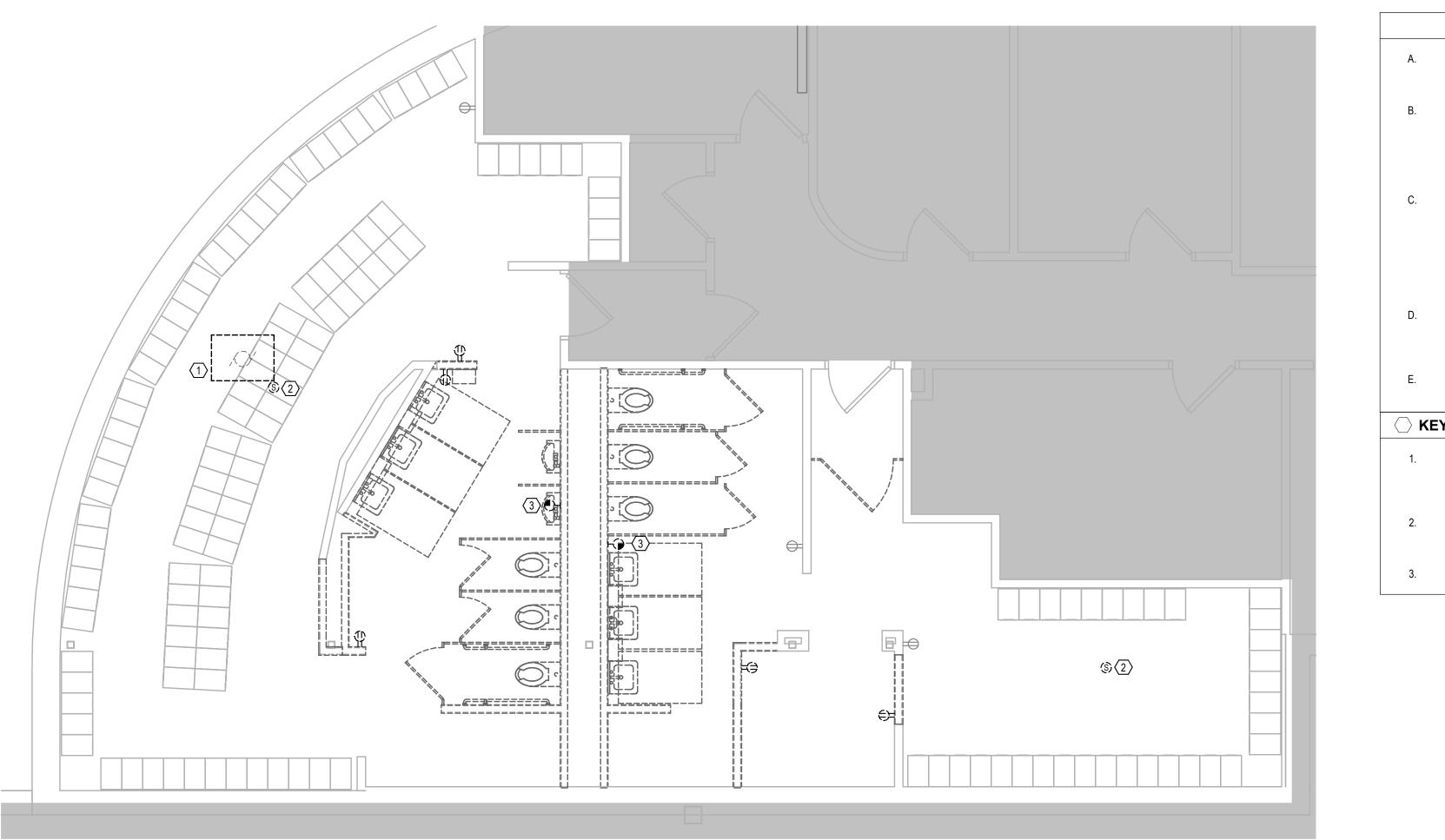
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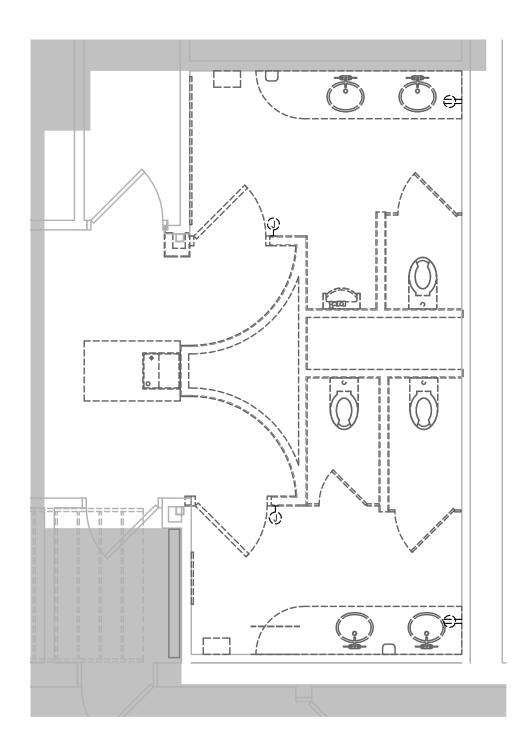
2 LEVEL 2 ADMIN TOILET ROOMS POWER & TECHNOLOGY DEMOLITION PLAN 1/4" = 1'-0"

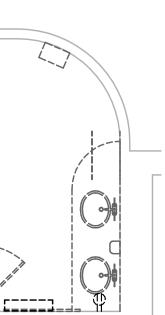
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1 LEVEL 1 ADMIN TOILET ROOMS POWER & TECHNOLOGY DEMOLITION PLAN

GENERAL SHEET NOTES

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PROVIDE CONDUIT AND ELECTRICAL WIRING AS NECESSARY FOR CONTINUITY OF FEEDERS / BRANCH CIRCUITS ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVE ANY ELECTRICAL DEVICES AND / OR EQUIPMENT TO REMAIN.

PROVIDE BLANK COVERPLATES FOR EXISTING UNUSED JUNCTION BOX OPENINGS TO REMAIN.

KEYED SHEET NOTES

4

DISCONNECT AND REMOVE EXISTING CABINET UNIT HEATER AND PROTECT ALL ASSOCIATED CONDUIT AND WIRE FOR RE-USE WITH NEW CABINET UNIT HEATER; COORDINATE WITH GENERAL CONTRACTOR.

REMOVE AND SALVAGE EXISTING SPEAKER FOR RE-INSTALLATION. RETAIN EXISTING SPEAKER CABLE FOR CONNECTION TO SPEAKER IN NEW LOCATION WITHIN THE SAME VICINITY.

REMOVE AND SALVAGE EXISTING CLOCK FOR RE-INSTALLATION.



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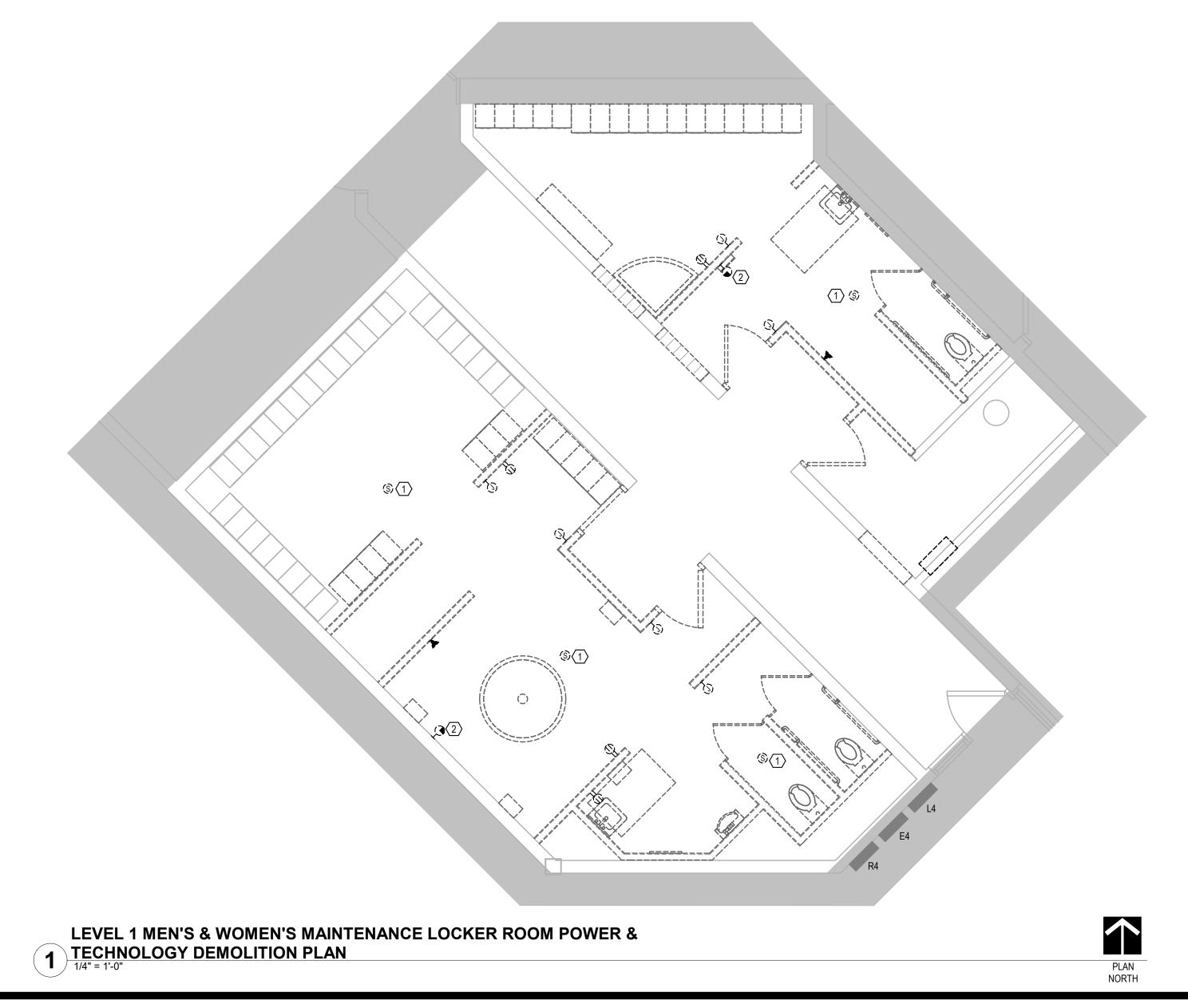
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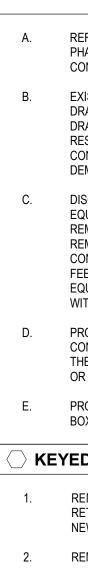
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GENERAL SHEET NOTES

REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION. COORDINATE WITH GENERAL CONSTRUCTION.

EXISTING ELECTRICAL DEVICES AND EQUIPMENT SHOWN ON THIS DRAWING ARE BASED ON CASUAL FIELD OBSERVATION AND EXISTING DRAWINGS (IF AVAILABLE). IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY, PRIOR TO BIDDING, TO FIELD VERIFY EXISTING CONDITIONS TO DETERMINE THE EXTENT OF THE ELECTRICAL DEMOLITION WORK REQUIRED.

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PROVIDE BLANK COVERPLATES FOR EXISTING UNUSED JUNCTION BOX OPENINGS TO REMAIN.

KEYED SHEET NOTES

1. REMOVE AND SALVAGE EXISTING SPEAKER FOR RE-INSTALLATION. RETAIN EXISTING SPEAKER CABLE FOR CONNECTION TO SPEAKER IN NEW LOCATION WITHIN THE SAME VICINITY.

REMOVE AND SALVAGE EXISTING CLOCK FOR RE-INSTALLATION.



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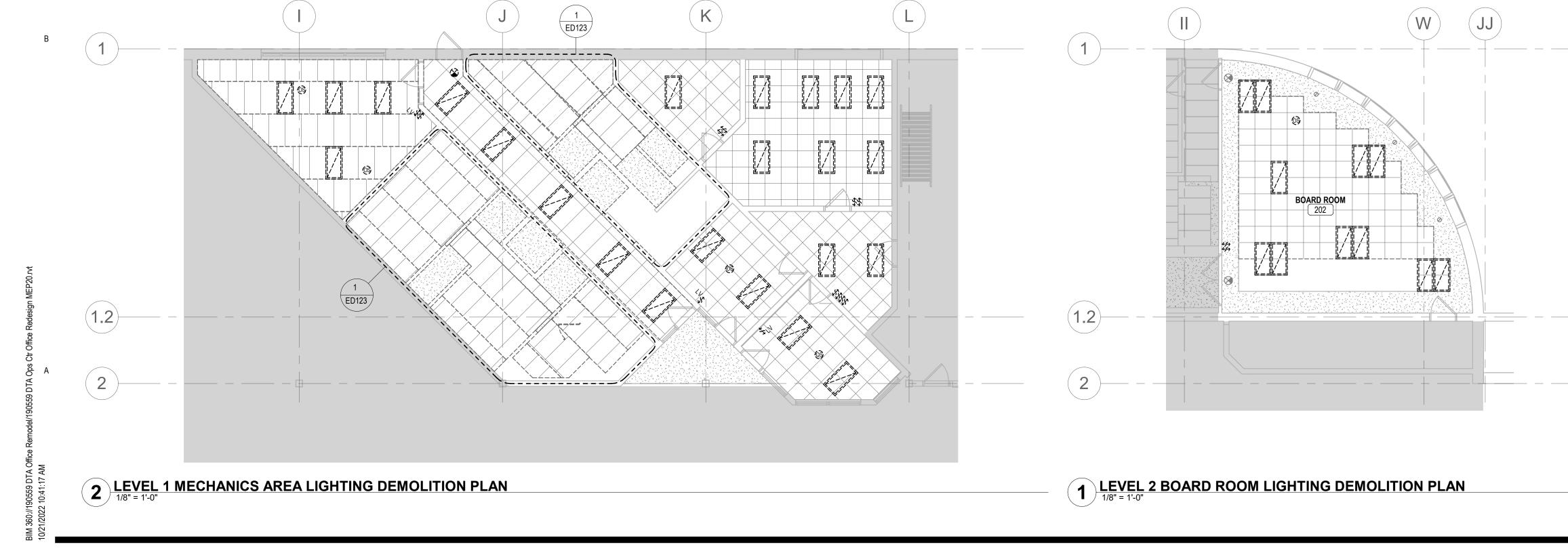
CLIENT: DULUTH TRANSIT AUTHORITY (DTA) 2402 WEST MICHIGAN ST. DULUTH, MINNESOTA 55806

Image: Interference of the state of the
I HEREBY CERTIFY that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
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COPYRIGHT 2022 BY LHB, INC. ALL RIGHTS RESERVED. PROJECT NAME: OPS CENTER OFFICE AND TOILET REMODEL 2402 WEST MICHIGAN ST. DULUTH, MINNESOTA 55806
DRAWING TITLE: TOILET AND LOCKER ROOM POWER & TECHNOLOGY DEMOLITION PLAN

ED104

PROJ. NO: 200066

DRAWING NO:



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Α. В. C. D. E. F. 1. NOTE

GENERAL SHEET NOTES

REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION. COORDINATE WITH GENERAL CONSTRUCTION.

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ightarrow KEYED SHEET NOTES

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COPYRIGHT		Reg. No.: <u>52349</u> IC. ALL RIGHTS RESERVED.
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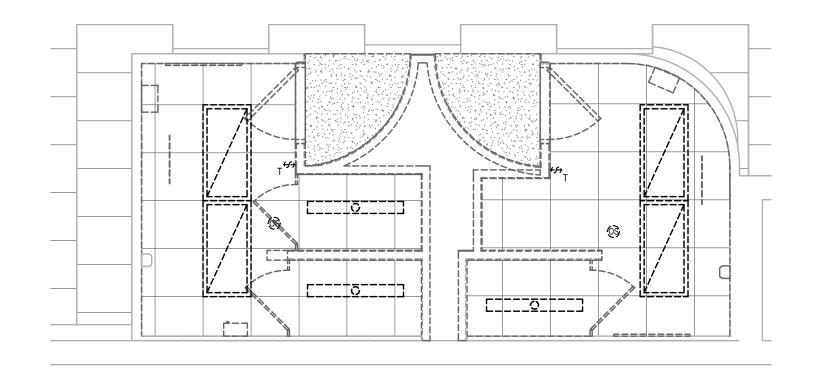
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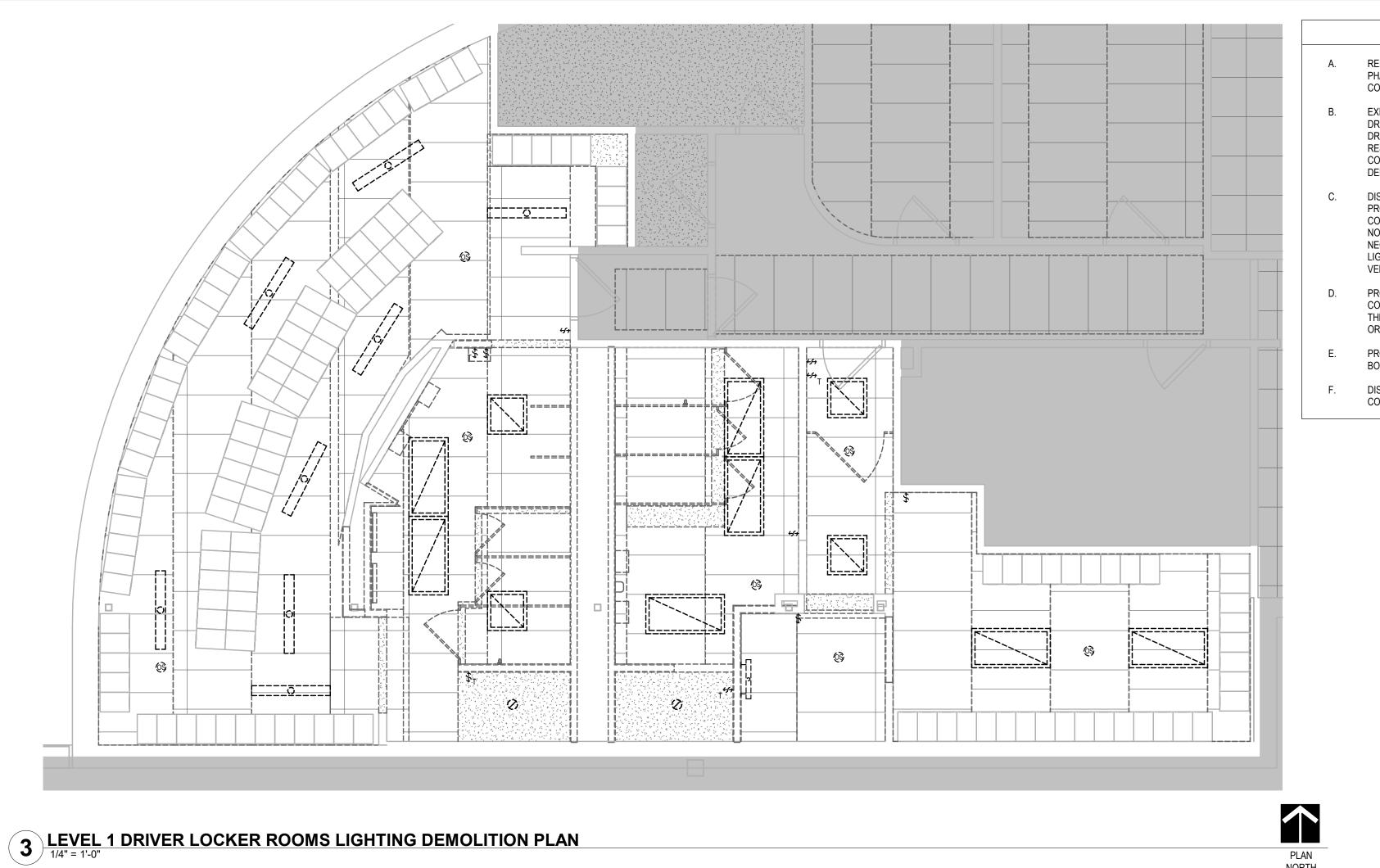
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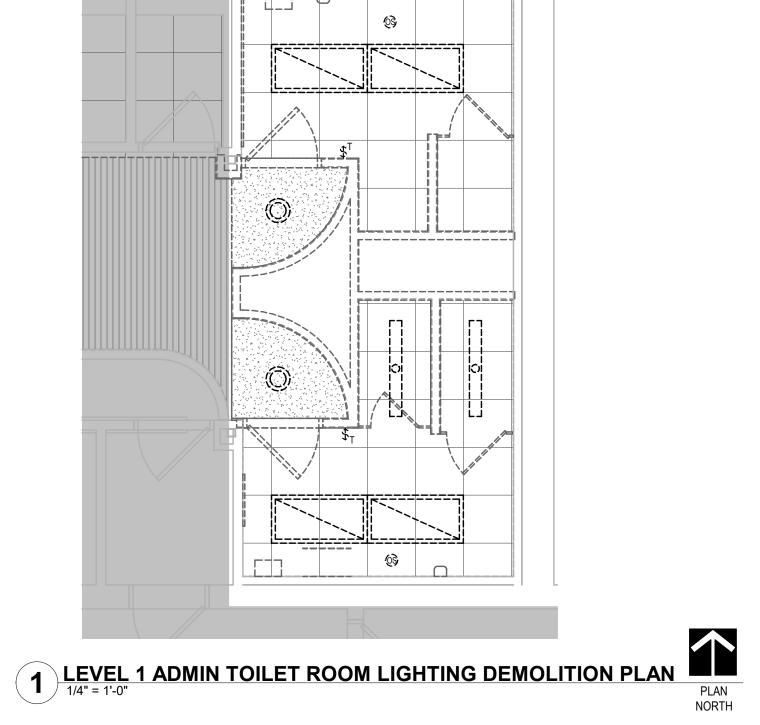
2 LEVEL 2 ADMIN TOILET ROOMS LIGHTING DEMOLITION PLAN







PLAN NORTH







GENERAL SHEET NOTES

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PROVIDE BLANK COVERPLATES FOR EXISTING UNUSED JUNCTION BOX OPENINGS TO REMAIN.

DISCONNECT AND REMOVE WALL-MOUNTED LIGHTING SWITCHES / CONTROLS TO ACCOMMODATE NEW DOOR CONFIGURATIONS.



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COPYRIGH		Reg. No.: <u>52349</u> C. ALL RIGHTS RESERVED.			
PROJECT NAME: OPS CENTER OFFICE AND TOILET REMODEL 2402 WEST MICHIGAN ST. DULUTH, MINNESOTA 55806					
ROC	ET ANI	D LOCKER ITING N PLANS			



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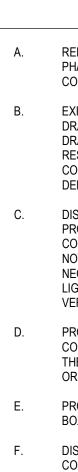
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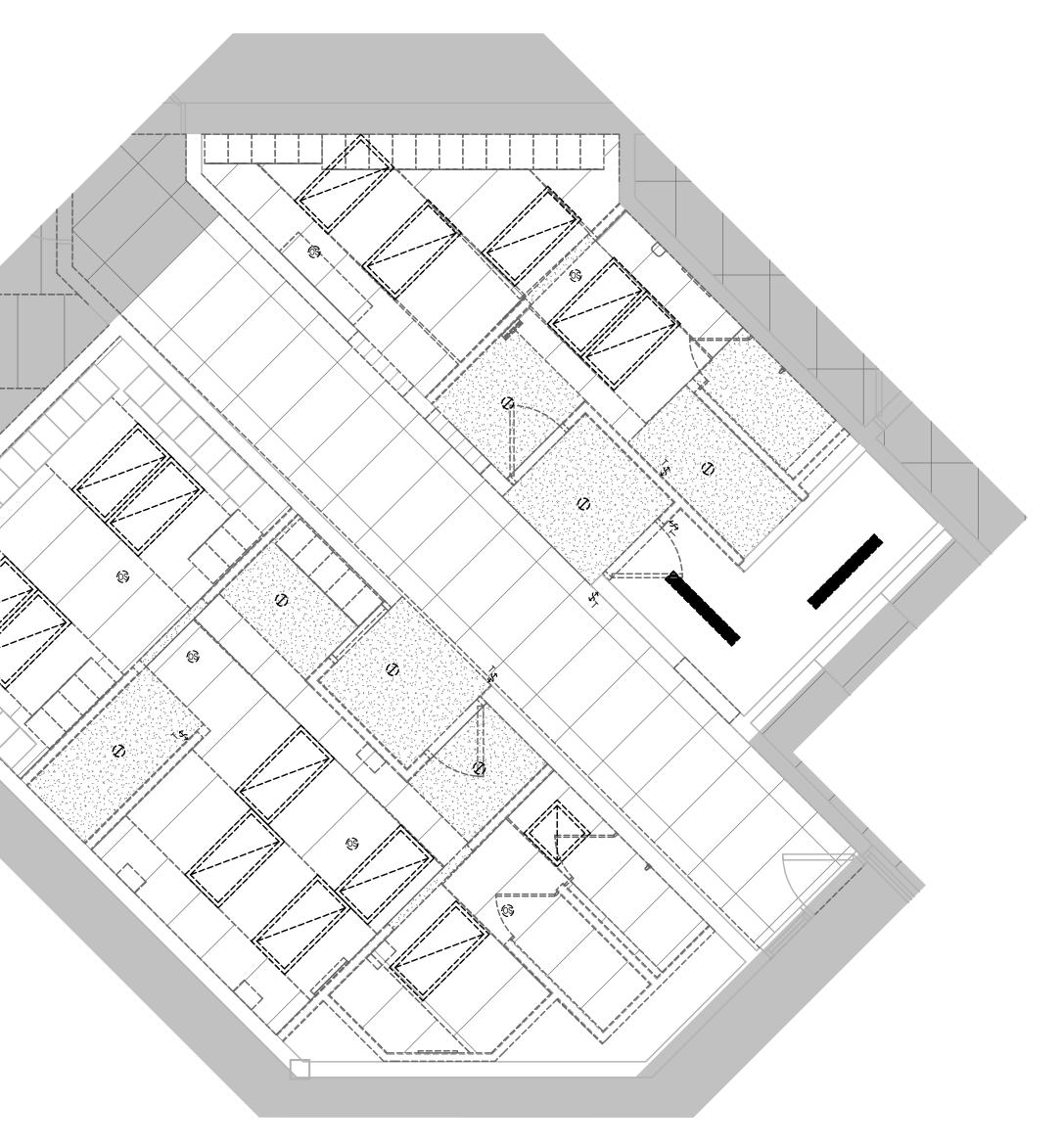
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GENERAL SHEET NOTES

A. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION. COORDINATE WITH GENERAL CONSTRUCTION.

> EXISTING LIGHTING FIXTURES AND DEVICES SHOWN ON THIS DRAWING ARE BASED ON CASUAL FIELD OBSERVATION AND EXISTING DRAWINGS (IF AVAILABLE). IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY, PRIOR TO BIDDING, TO FIELD VERIFY EXISTING CONDITIONS TO DETERMINE THE EXTENT OF THE ELECTRICAL DEMOLITION WORK REQUIRED.

> DISCONNECT AND REMOVE ALL LIGHTING FIXTURES AND DEVICES IN PROJECT AREA, UNLESS NOTED OTHERWISE. REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO LAST REMAINING DEVICE, UNLESS NOTED OTHERWISE. PROVIDE NEW CONDUIT AND WIRING AS NECESSARY FOR CONTINUITY OF FEEDERS / BRANCH CIRCUITS TO LIGHTING FIXTURES AND / OR DEVICES TO REMAIN, COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

> PROVIDE CONDUIT AND ELECTRICAL WIRING AS NECESSARY FOR CONTINUITY OF FEEDERS / BRANCH CIRCUITS ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVE ANY LIGHTING FIXTURES AND / OR DEVICES TO REMAIN.

PROVIDE BLANK COVERPLATES FOR EXISTING UNUSED JUNCTION BOX OPENINGS TO REMAIN.

DISCONNECT AND REMOVE WALL-MOUNTED LIGHTING SWITCHES / CONTROLS TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

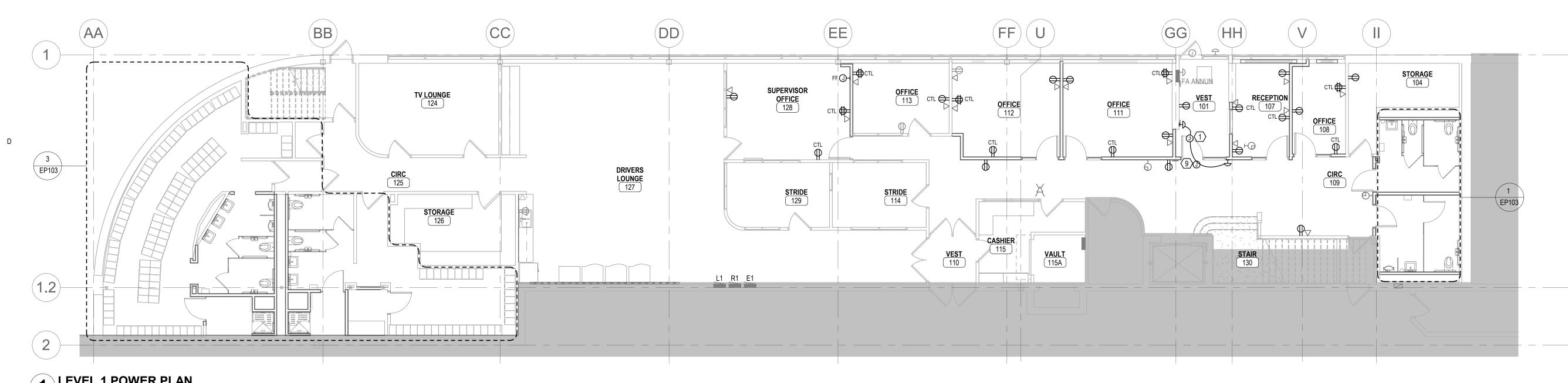


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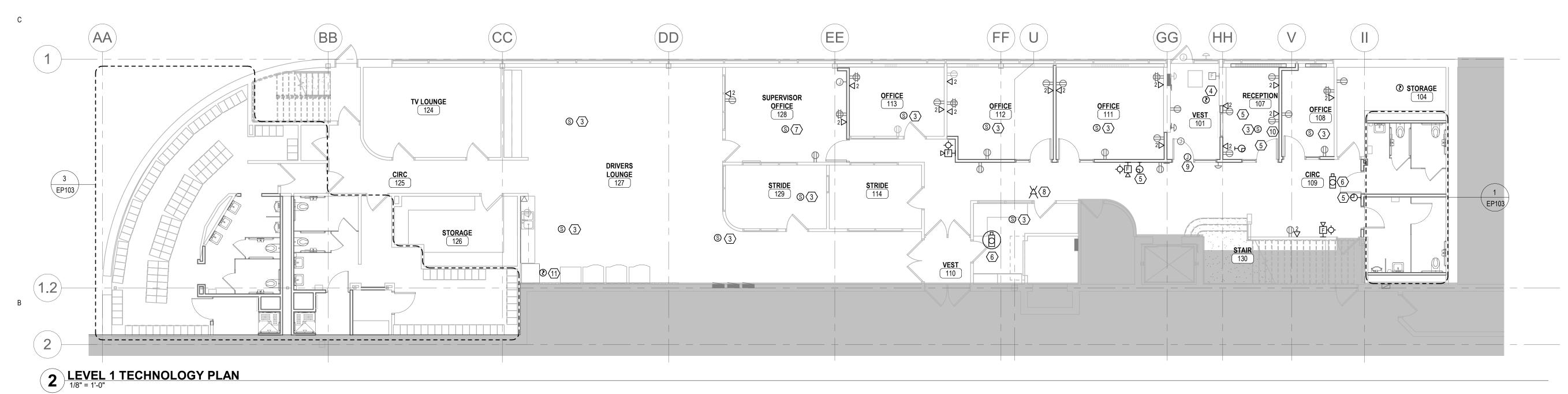
CLIENT: DULUTH TRANSIT AUTHORITY (DTA) 2402 WEST MICHIGAN ST. DULUTH, MINNESOTA 55806

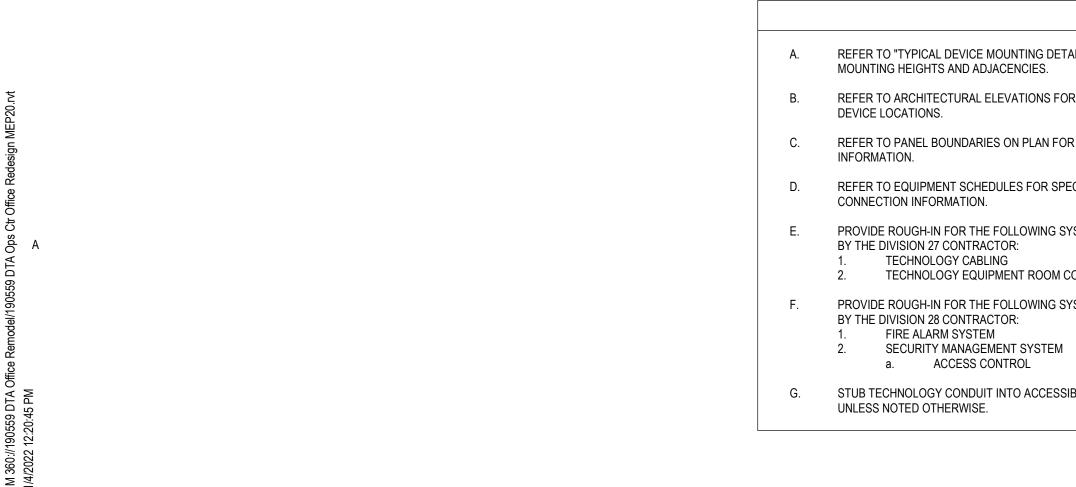
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AND 2402	CENTE TOILE	ER OFFICE T REMODEL CHIGAN ST. ESOTA 55806
ROC	ET AND M LIGF	D LOCKER ITING N PLAN

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GENERAL SHEET NOTES

B DETAIL" FOR DEVICE S.	H.	PROVIDE WORK FOR ALL ALTERNATE ITEMS (IF ANY). REFER TO NOTES ON DRAWINGS AND SPECIFICATIONS FOR ALTERNATE DESCRIPTIONS.	1.	PROVIDE SEPARATE CIRCUIT FROM PANEL OPERATOR, PROVIDED BY OTHERS. RECEIN AND INSTALL IN LOCATIONS INDICATED. CO
IS FOR EXACT WALL-MOUNTED	I.	UNLESS NOTED OTHERWISE, CONNECT NEW RECEPTACLES TO EXISTING RECEPTACLE CIRCUITS FROM PANELBOARD R1 THAT WERE SALVAGED DURING DEMOLITION. PROVIDE ADDITIONAL CONDUIT AND		LOCATIONS WITH OWNER PRIOR TO INSTAL CONDUIT AND CONDUCTORS TO CONNECT COMPLETE AND OPERABLE SYSTEM.
N FOR PANEL CIRCUITING		CONDUCTORS, AS REQUIRED, TO MAKE FINAL CONNECTIONS TO DEVICES IN NEW LOCATIONS.	2.	NOT USED.
R SPECIFIC EQUIPMENT	J.	ROUTE ALL NEW DATA CABLES TO COMPUTER / SERVER ROOM 206, LOCATED ON THE SECOND FLOOR ABOVE OFFICE 111. PROVIDE (1)	3.	RE-INSTALL EXISTING SPEAKER SALVAGED PROVIDE SPEAKER CABLE TO RE-CONNECT LOCATION WITHIN THE SAME VICINITY,
NG SYSTEMS TO BE PROVIDED		NEW 48 PORT PATCH PANEL IN EXISTING RACK TO SERVE PROPOSED DEVICES.	4.	RE-INSTALL EXISTING FIRE ALARM ANNUNC DURING DEMOLITION. PROVIDE FIRE ALARM
OOM COMPONENTS				PANEL IN NEW LOCATION WITHIN THE SAME
NG SYSTEMS TO BE PROVIDED			5.	RE-INSTALL EXISTING CLOCK SALVAGED DU PROVIDE CONDUIT AND CONDUCTORS TO E TO NEW LOCATION WITHIN THE SAME VICIN
TEM			6.	RE-INSTALL EXISTING CAMERA SALVAGED D PROVIDE CONDUIT AND CONDUCTORS TO E
CESSIBLE CEILING SPACE,				TO NEW LOCATION WITHIN THE SAME VICIN
			I	

\bigcirc KEYED SHEET NOTES

PROVIDE SEPARATE CIRCUIT FROM PANEL R1 FOR POWER DOOR OPERATOR, PROVIDED BY OTHERS. RECEIVE ACTUATORS FROM GC AND INSTALL IN LOCATIONS INDICATED. COORDINATE FINAL	7.	Pl P/
LOCATIONS WITH OWNER PRIOR TO INSTALLATION. PROVIDE CONDUIT AND CONDUCTORS TO CONNECT ACTUATORS FOR A COMPLETE AND OPERABLE SYSTEM.	8.	Pi W JA T(
NOT USED.		P(Pf
RE-INSTALL EXISTING SPEAKER SALVAGED DURING DEMOLITION. PROVIDE SPEAKER CABLE TO RE-CONNECT SPEAKER IN NEW LOCATION WITHIN THE SAME VICINITY,	9.	PI SI
RE-INSTALL EXISTING FIRE ALARM ANNUNCIATOR PANEL SALVAGED DURING DEMOLITION. PROVIDE FIRE ALARM CABLE TO RE-CONNECT PANEL IN NEW LOCATION WITHIN THE SAME VICINITY.		C(T(RI IN
RE-INSTALL EXISTING CLOCK SALVAGED DURING DEMOLITION. PROVIDE CONDUIT AND CONDUCTORS TO EXTEND EXISTING CIRCUIT TO NEW LOCATION WITHIN THE SAME VICINITY.	10.	Pi Al D(F(
RE-INSTALL EXISTING CAMERA SALVAGED DURING DEMOLITION. PROVIDE CONDUIT AND CONDUCTORS TO EXTEND EXISTING CIRCUIT TO NEW LOCATION WITHIN THE SAME VICINITY.	11.	RI DI E)



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ROVIDE NEW SPEAKER. PROVIDE SPEAKER CABLE FROM EXISTING	
SYSTEM LOCATED IN COMPUTER / SERVER ROOM 206.	

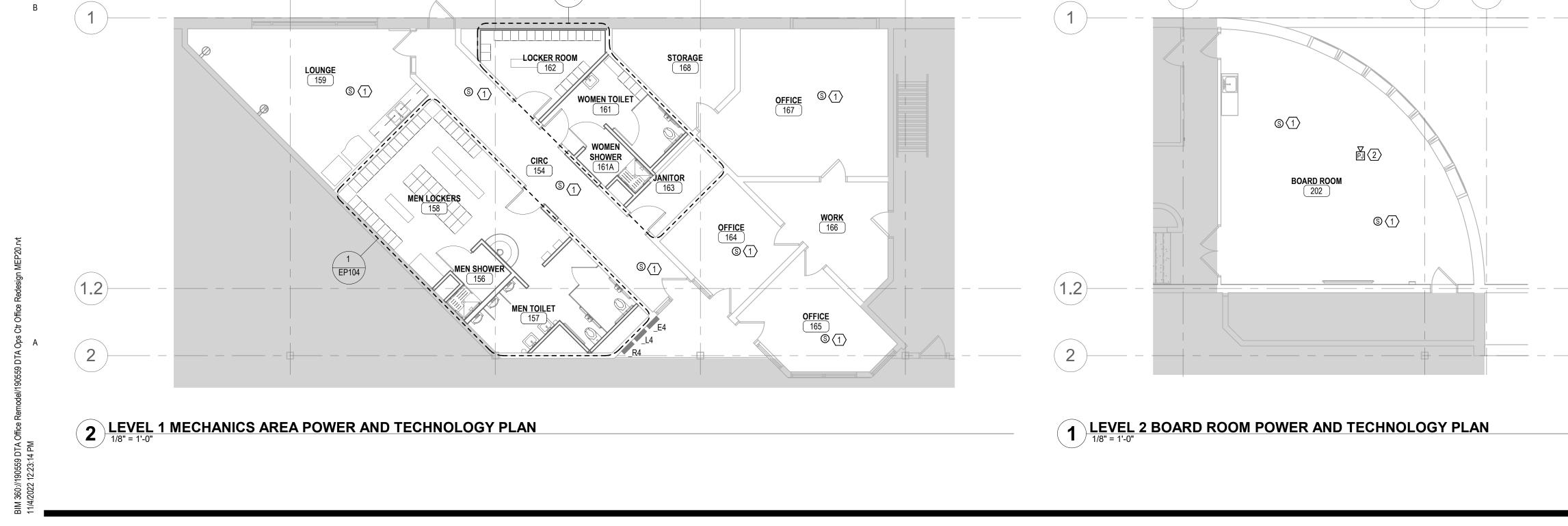
PROVIDE NEW CAT6A CABLE FROM COMPUTER / SERVE ROOM 206 TO WIRELESS ACCESS POINT LOCATION. TERMINATE CABLE IN FEMALE JACK. PROVIDE 10' SERVICE LOOP NEATLY COILED AND SUPPORTED TO STRUCTURE ABOVE ACCESSIBLE CEILING. WIRELESS ACCESS POINT, MOUNTING HARDWARE AND PATCH CABLE SHALL BE PROVIDED BY OWNER.

ROVIDE (1) SEPARATE CIRCUIT FROM PANEL R1 TO SERVE (4) ECURE DOOR POWER SUPPLIES PROVIDED BY DIV 08. PROVIDE CONDUIT AND LOW VOLTAGE CONDUCTORS FROM POWER SUPPLY O SECURITY HARDWARE FOR A COMPLETE AND OPERABLE SYSTEM. REFER TO DOOR HARDWARE, FIRE ALARM, ACCESS CONTROL & NTRUSION DETECTION REQUIREMENTS ON SHEET E601.

PROVIDE ELECTRONIC RELEASE BUTTON BY RECEPTION DESK TO ALLOW RECEPTIONIST TO RELEASE THE ELECTRIC STRIKES ON DOORS 101.1, 101.2 AND 102. PROVIDE CONDUIT AND CONDUCTORS FOR A COMPLETE AND OPERABLE SYSTEM.

RE-INSTALL EXISTING SMOKE DETECTOR SALVAGED DURING DEMOLITION. PROVIDE CONDUIT AND CONDUCTORS TO EXTEND EXISTING CIRCUIT TO NEW LOCATION WITHIN THE SAME VICINITY.





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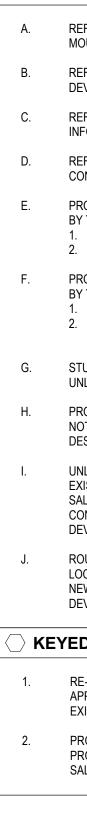
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GENERAL SHEET NOTES

A. REFER TO "TYPICAL DEVICE MOUNTING DETAIL" FOR DEVICE MOUNTING HEIGHTS AND ADJACENCIES.

> REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT WALL-MOUNTED DEVICE LOCATIONS.

REFER TO PANEL BOUNDARIES ON PLAN FOR PANEL CIRCUITING INFORMATION.

REFER TO EQUIPMENT SCHEDULES FOR SPECIFIC EQUIPMENT CONNECTION INFORMATION.

PROVIDE ROUGH-IN FOR THE FOLLOWING SYSTEMS TO BE PROVIDED BY THE DIVISION 27 CONTRACTOR: 1. TECHNOLOGY CABLING

2. TECHNOLOGY EQUIPMENT ROOM COMPONENTS

F. PROVIDE ROUGH-IN FOR THE FOLLOWING SYSTEMS TO BE PROVIDED BY THE DIVISION 28 CONTRACTOR: FIRE ALARM SYSTEM

2. SECURITY MANAGEMENT SYSTEM a. ACCESS CONTROL

G. STUB TECHNOLOGY CONDUIT INTO ACCESSIBLE CEILING SPACE, UNLESS NOTED OTHERWISE.

> PROVIDE WORK FOR ALL ALTERNATE ITEMS (IF ANY). REFER TO NOTES ON DRAWINGS AND SPECIFICATIONS FOR ALTERNATE DESCRIPTIONS.

UNLESS NOTED OTHERWISE, CONNECT NEW RECEPTACLES TO EXISTING RECEPTACLE CIRCUITS FROM PANELBOARD R1 THAT WERE SALVAGED DURING DEMOLITION. PROVIDE ADDITIONAL CONDUIT AND CONDUCTORS, AS REQUIRED, TO MAKE FINAL CONNECTIONS TO DEVICES IN NEW LOCATIONS.

ROUTE ALL NEW DATA CABLES TO COMPUTER / SERVER ROOM 206, LOCATED ON THE SECOND FLOOR ABOVE OFFICE 111. PROVIDE (1) NEW 48 PORT PATCH PANEL IN EXISTING RACK TO SERVE PROPOSED DEVICES.

KEYED SHEET NOTES

4

RE-INSTALL SPEAKER SALVAGED DURING DEMOLITION IN THE SAME APPROXIMATE VICINITY. PROVIDE SPEAKER CABLE TO EXTEND EXISTING PA CIRCUIT TO REVISED SPEAKER LOCATION.

PROVIDE NEW RECEPTACLE AND DATA OUTLET IN EXISTING CEILING PROJECT MOUNT. CONNECT EXISTING CONDUCTORS AND CABLES SALVAGED DURING DEMOLITION.



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> > 100% DOCUMENTS

ISSUED FOR

10/24/2022 DATE NO

DATE REVISION

I HEREBY CERTIFY that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Signature: "In ff at Typed or Printed Name: MARK J. VINCENT Reg. No.: 52349 Date: 10/24/2022

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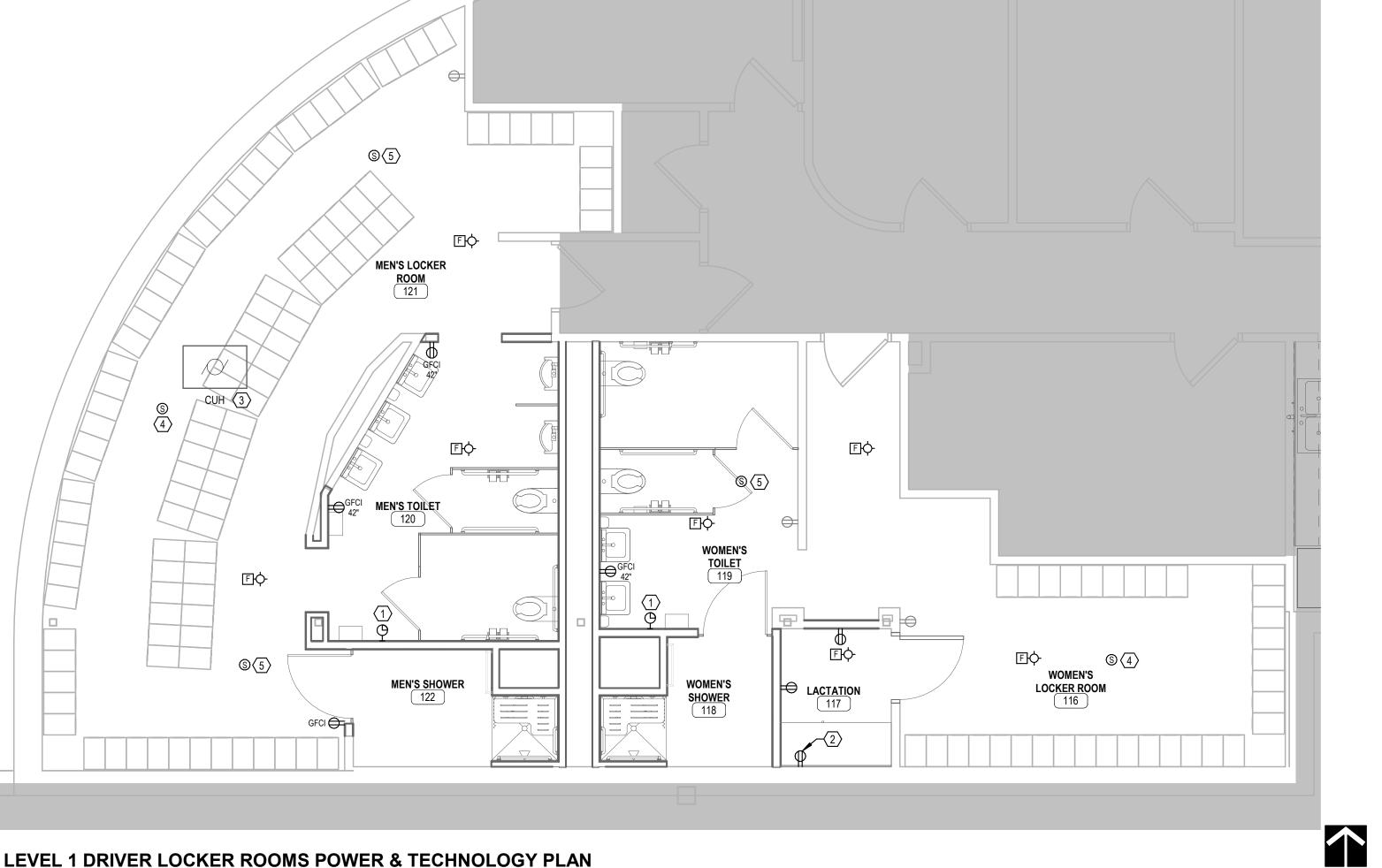
PROJECT NAME: OPS CENTER OFFICE AND TOILET REMODEL 2402 WEST MICHIGAN ST. DULUTH, MINNESOTA 55806

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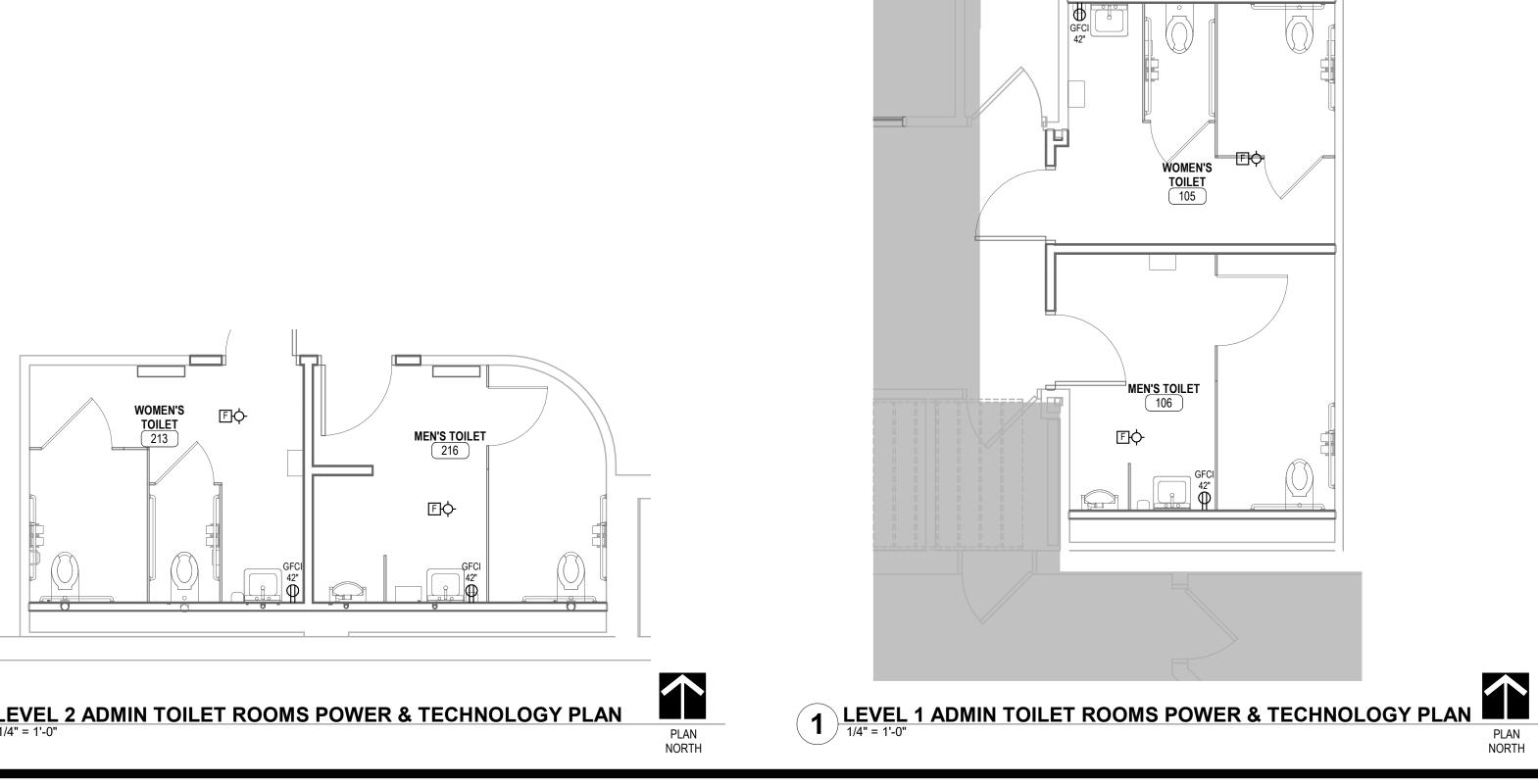
OFFICE POWER AND TECHNOLOGY PLANS

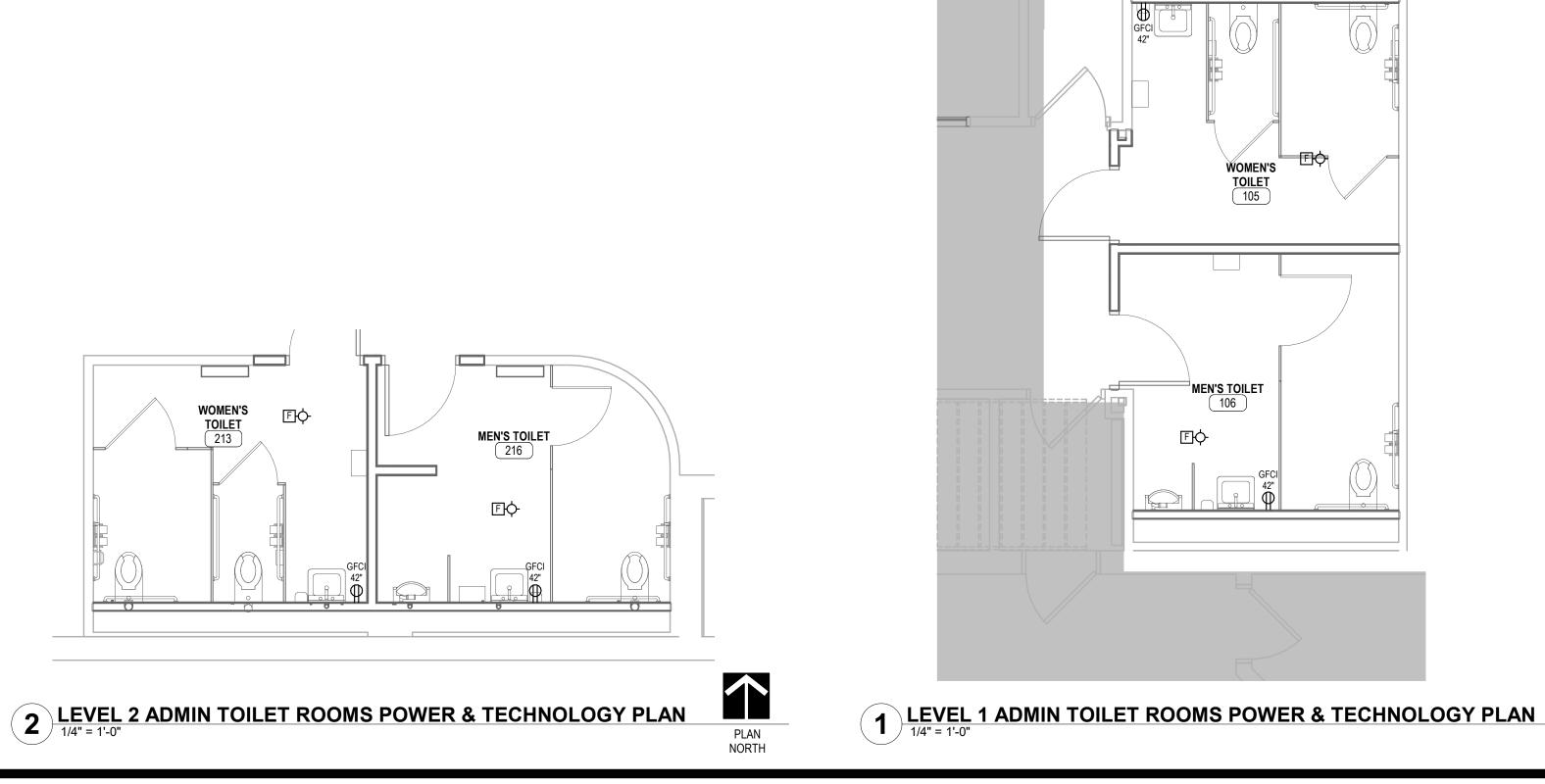
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3 LEVEL 1 DRIVER LOCKER ROOMS POWER & TECHNOLOGY PLAN





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GENERAL SHEET NOTES

A. REFER TO "TYPICAL DEVICE MOUNTING DETAIL" FOR DEVICE MOUNTING HEIGHTS AND ADJACENCIES.

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PLAN NORTH 2

REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT WALL-MOUNTED DEVICE LOCATIONS.

REFER TO PANEL BOUNDARIES ON PLAN FOR PANEL CIRCUITING INFORMATION.

REFER TO EQUIPMENT SCHEDULES FOR SPECIFIC EQUIPMENT CONNECTION INFORMATION.

PROVIDE ROUGH-IN FOR THE FOLLOWING SYSTEMS TO BE PROVIDED BY THE DIVISION 27 CONTRACTOR: 1. TECHNOLOGY CABLING

2. TECHNOLOGY EQUIPMENT ROOM COMPONENTS

PROVIDE ROUGH-IN FOR THE FOLLOWING SYSTEMS TO BE PROVIDED BY THE DIVISION 28 CONTRACTOR: FIRE ALARM SYSTEM

SECURITY MANAGEMENT SYSTEM a. ACCESS CONTROL

G. STUB TECHNOLOGY CONDUIT INTO ACCESSIBLE CEILING SPACE, UNLESS NOTED OTHERWISE.

> PROVIDE WORK FOR ALL ALTERNATE ITEMS (IF ANY). REFER TO NOTES ON DRAWINGS AND SPECIFICATIONS FOR ALTERNATE DESCRIPTIONS.

UNLESS NOTED OTHERWISE, CONNECT NEW RECEPTACLES TO EXISTING RECEPTACLE CIRCUITS FROM PANELBOARD R1 THAT WERE SALVAGED DURING DEMOLITION. PROVIDE ADDITIONAL CONDUIT AND CONDUCTORS, AS REQUIRED, TO MAKE FINAL CONNECTIONS TO DEVICES IN NEW LOCATIONS.

ROUTE ALL NEW DATA CABLES TO COMPUTER / SERVER ROOM 206, LOCATED ON THE SECOND FLOOR ABOVE OFFICE 111. UTILIZE EXISTING PATCH PANEL IN EXISTING RACK TO SERVE PROPOSED DEVICES.

KEYED SHEET NOTES

4

RE-INSTALL EXISTING CLOCK SALVAGED DURING DEMOLITION. PROVIDE CONDUIT AND CONDUCTORS TO EXTEND EXISTING CIRCUIT TO NEW LOCATION WITHIN THE SAME VICINITY.

PROVIDE DEDICATED CIRCUIT FOR UNDERCOUNTER REFRIGERATOR.

PROVIDE CONDUIT AND CONDUCTORS TO CONNECT PROPOSED CUH TO EXISTING CIRCUIT SALVAGED DURING DEMOLITION.

RE-INSTALL EXISTING SPEAKER SALVAGED DURING DEMOLITION. PROVIDE SPEAKER CABLE TO RE-CONNECT SPEAKER IN NEW LOCATION WITHIN THE SAME VICINITY.

PROVIDE NEW SPEAKER. PROVIDE SPEAKER CABLE FROM EXISTING PA SYSTEM LOCATED IN COMPUTER / SERVER ROOM 206.



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of Minne Signature: Typed or F Date: <u>10</u> COPYRIGH	esota. Printed Name:M D/24/2022 T 2022 BY LHB, IN IAME:	ARK J. VINCENT Reg. No.: 52349 C. ALL RIGHTS RESERVED.
of Minne Signature: Typed or F Date: <u>10</u> COPYRIGH PROJECT N OPS	Printed Name:M D/24/2022 T 2022 BY LHB, IN IAME: CENTI	ARK J. VINCENT Reg. No.: 52349
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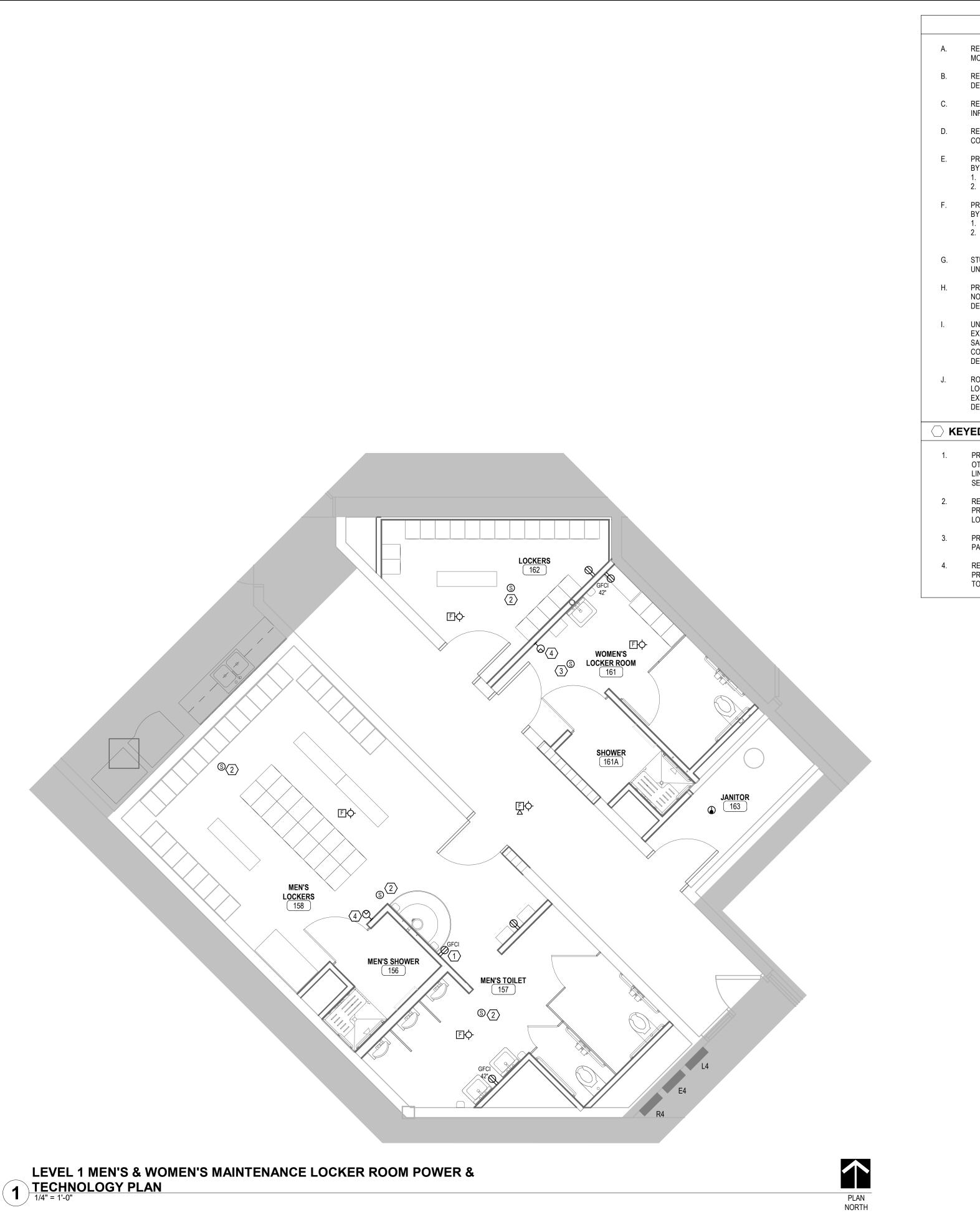
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GENERAL SHEET NOTES

A. REFER TO "TYPICAL DEVICE MOUNTING DETAIL" FOR DEVICE MOUNTING HEIGHTS AND ADJACENCIES.

REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT WALL-MOUNTED DEVICE LOCATIONS.

C. REFER TO PANEL BOUNDARIES ON PLAN FOR PANEL CIRCUITING INFORMATION.

REFER TO EQUIPMENT SCHEDULES FOR SPECIFIC EQUIPMENT CONNECTION INFORMATION.

PROVIDE ROUGH-IN FOR THE FOLLOWING SYSTEMS TO BE PROVIDED BY THE DIVISION 27 CONTRACTOR: 1. TECHNOLOGY CABLING

2. TECHNOLOGY EQUIPMENT ROOM COMPONENTS

F. PROVIDE ROUGH-IN FOR THE FOLLOWING SYSTEMS TO BE PROVIDED BY THE DIVISION 28 CONTRACTOR:
1. FIRE ALARM SYSTEM

2. SECURITY MANAGEMENT SYSTEM a. ACCESS CONTROL

G. STUB TECHNOLOGY CONDUIT INTO ACCESSIBLE CEILING SPACE, UNLESS NOTED OTHERWISE.

> PROVIDE WORK FOR ALL ALTERNATE ITEMS (IF ANY). REFER TO NOTES ON DRAWINGS AND SPECIFICATIONS FOR ALTERNATE DESCRIPTIONS.

UNLESS NOTED OTHERWISE, CONNECT NEW RECEPTACLES TO EXISTING RECEPTACLE CIRCUITS FROM PANELBOARD R4 THAT WERE SALVAGED DURING DEMOLITION. PROVIDE ADDITIONAL CONDUIT AND CONDUCTORS, AS REQUIRED, TO MAKE FINAL CONNECTIONS TO DEVICES IN NEW LOCATIONS.

ROUTE ALL NEW DATA CABLES TO COMPUTER / SERVER ROOM 206, LOCATED ON THE SECOND FLOOR ABOVE OFFICE 111. UTILIZE EXISTING PATCH PANEL IN EXISTING RACK TO SERVE PROPOSED DEVICES.

KEYED SHEET NOTES

 PROVIDE CIRCUIT FOR INFRARED SINK SENSOR SUPPLIED BY OTHERS. PROVIDE CONDUIT AND CONDUCTORS TO CONNECT BOTH LINE VOLTAGE CIRCUIT AND LOW VOLTAGE CONNECTIONS TO SENSOR.

> RE-INSTALL EXISTING SPEAKER SALVAGED DURING DEMOLITION. PROVIDE SPEAKER CABLE TO RE-CONNECT SPEAKER IN NEW LOCATION WITHIN THE SAME VICINITY.

PROVIDE NEW SPEAKER. PROVIDE SPEAKER CABLE FROM EXISTING PA SYSTEM LOCATED IN COMPUTER / SERVER ROOM 206.

RE-INSTALL EXISTING CLOCK SALVAGED DURING DEMOLITION. PROVIDE CONDUIT AND CONDUCTORS TO EXTEND EXISTING CIRCUIT TO NEW LOCATION WITHIN THE SAME VICINITY.



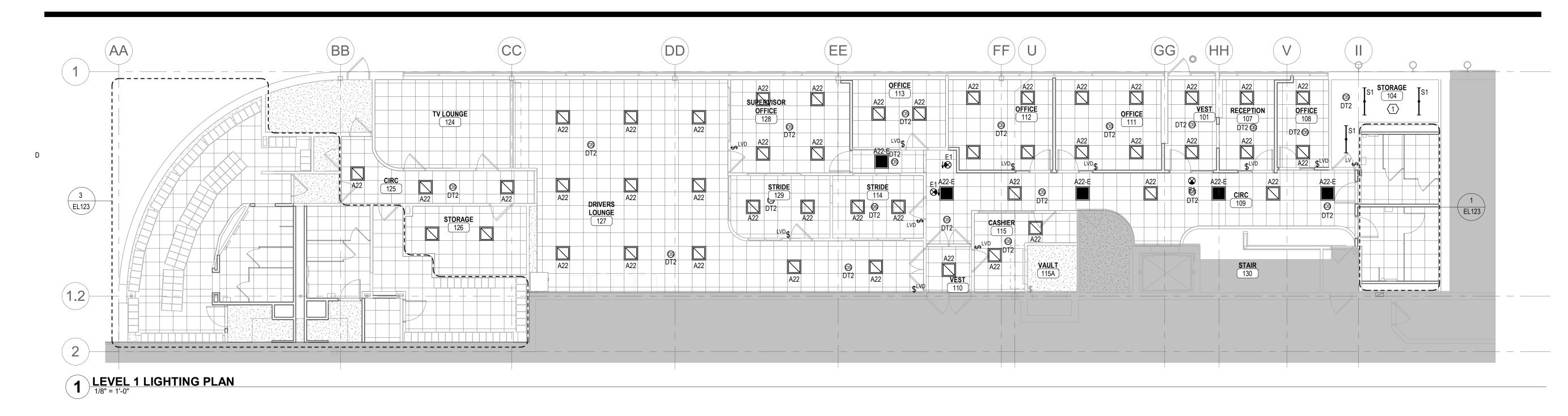
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GENERAL SHEET NOTES					ED S
Α.	REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LIGHTING FIXTURE LOCATIONS WITHIN CEILING.	I.	EMERGENCY EGRESS LIGHT FIXTURES, INDICATED BY SOLID SHADING, SHALL BE CONNECTED TO EXISTING LIGHTING CIRCUITS FROM PANEL E1, SALVAGED DURING DEMOLITION. CONTROL NEW		SUSPE FIXTUR
В.	REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT BUILDING / WALL-MOUNTED LIGHTING FIXTURE AND CONTROLS LOCATIONS.		CORRIDOR AND LOBBY EMERGENCY EGRESS LIGHT FIXTURES FROM EXISTING LIGHTING CONTROL PANEL.		
C.	REFER TO LIGHTING SCHEDULES FOR SPECIFIC FIXTURE AND CONTROLS INFORMATION.	J.	PROVIDE CONDUIT AND CONDUCTORS TO EXTEND EXISTING EXIT LIGHTING CIRCUIT SERVED FROM PANEL E1 TO NEW EXIT LIGHTS.		
D.	REFER TO SPECIFICATION SECTION 26 0519 FOR REQUIRED CONDUCTOR SIZE ADJUSTMENTS FOR VOLTAGE DROP.				
E.	PROVIDE 6' FLEXIBLE METAL CONDUIT FOR RECESSED LIGHTING FIXTURES INSTALLED IN ACCESSIBLE LAY-IN CEILINGS.				
F.	PROVIDE LIGHTING CONTROL DEVICES PER MANUFACTURER'S RECOMMENDATIONS (CATALOG NUMBER, LOCATION AND QUANTITY); REFER TO SPECIFICATION SECTION 26 0943. DEVICES SHOWN ARE FOR GENERAL DESIGN INTENT ONLY.				
G.	PROVIDE WALL-MOUNTED LIGHTING SWITCHES / CONTROLS TO ACCOMMODATE NEW DOOR CONFIGURATIONS.				
H.	UNLESS NOTED OTHERWISE, CONNECT NEW LIGHT FIXTURES TO EXISTING LIGHTING CIRCUITS FROM PANEL L1, SALVAGED DURING DEMOLITION. CONTROL NEW LIGHT FIXTURES AS INDICATED.				



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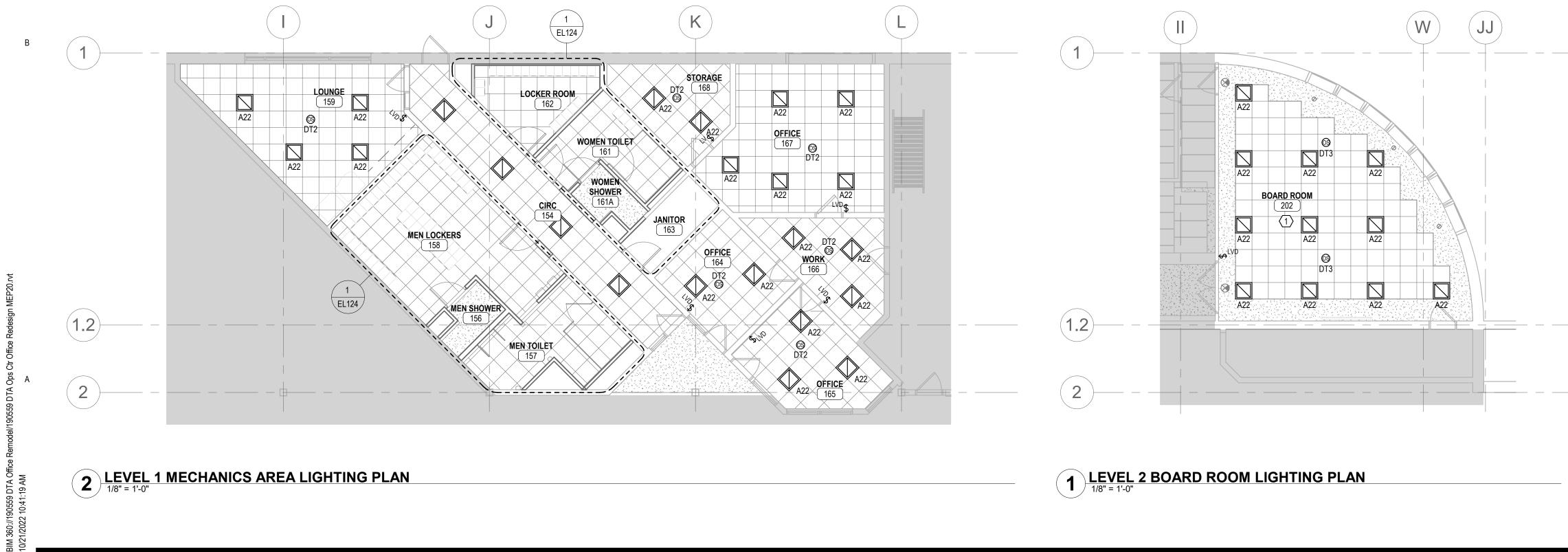
THIS SQUARE APPEARS 1/2"x1/2" ON FULL SIZE SHEETS 100% DOCUMENTS 10/24/2022 ISSUED FOR DATE NO NO DATE REVISION I HEREBY CERTIFY that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota. Signature: //////wt Typed or Printed Name: MARK J. VINCENT Date: 10/24/2022 Reg. No.: 52349 COPYRIGHT 2022 BY LHB, INC. ALL RIGHTS RESERVED. PROJECT NAME: **OPS CENTER OFFICE** AND TOILET REMODEL 2402 WEST MICHIGAN ST. DULUTH, MINNESOTA 55806 DRAWING TITLE: OFFICE LIGHTING PLAN

DRAWN BY: AML CHECKED BY: MJV PROJ. NO: 190559 DRAWING NO:



SHEET NOTES

SPEND FIXTURES IN THIS ROOM / AREA AT 9'-0" AFF TO BOTTOM OF TURE.



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GENERAL SHEET NOTES

EFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT IGHTING FIXTURE LOCATIONS WITHIN CEILING.

- REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT BUILDING / VALL-MOUNTED LIGHTING FIXTURE AND CONTROLS LOCATIONS.
- EFER TO LIGHTING SCHEDULES FOR SPECIFIC FIXTURE AND CONTROLS INFORMATION.
- REFER TO SPECIFICATION SECTION 26 0519 FOR REQUIRED CONDUCTOR SIZE ADJUSTMENTS FOR VOLTAGE DROP.
- PROVIDE 6' FLEXIBLE METAL CONDUIT FOR RECESSED LIGHTING IXTURES INSTALLED IN ACCESSIBLE LAY-IN CEILINGS.
- PROVIDE LIGHTING CONTROL DEVICES PER MANUFACTURER'S RECOMMENDATIONS (CATALOG NUMBER, LOCATION AND QUANTITY); EFER TO SPECIFICATION SECTION 26 0943. DEVICES SHOWN ARE OR GENERAL DESIGN INTENT ONLY.
- ROVIDE WALL-MOUNTED LIGHTING SWITCHES / CONTROLS TO CCOMMODATE NEW DOOR CONFIGURATIONS.
- INLESS NOTED OTHERWISE, CONNECT NEW LIGHT FIXTURES TO XISTING LIGHTING CIRCUITS FROM PANEL L4, SALVAGED DURING DEMOLITION. CONTROL NEW LIGHT FIXTURES AS INDICATED.
- MERGENCY EGRESS LIGHT FIXTURES, INDICATED BY SOLID HADING, SHALL BE CONNECTED TO EXISTING LIGHTING CIRCUITS ROM PANEL E4, SALVAGED DURING DEMOLITION. CONTROL NEW ORRIDOR AND LOBBY EMERGENCY EGRESS LIGHT FIXTURES FROM EXISTING LIGHTING CONTROL PANEL.
- PROVIDE CONDUIT AND CONDUCTORS TO EXTEND EXISTING EXIT IGHTING CIRCUIT SERVED FROM PANEL E1 TO NEW EXIT LIGHTS.

ED SHEET NOTES

CONNECT NEW LIGHT FIXTURES TO EXISTING LIGHTING CIRCUITS ROM PANEL L2, SALVAGED DURING DEMOLITION. CONTROL NEW IGHT FIXTURES AS INDICATED.



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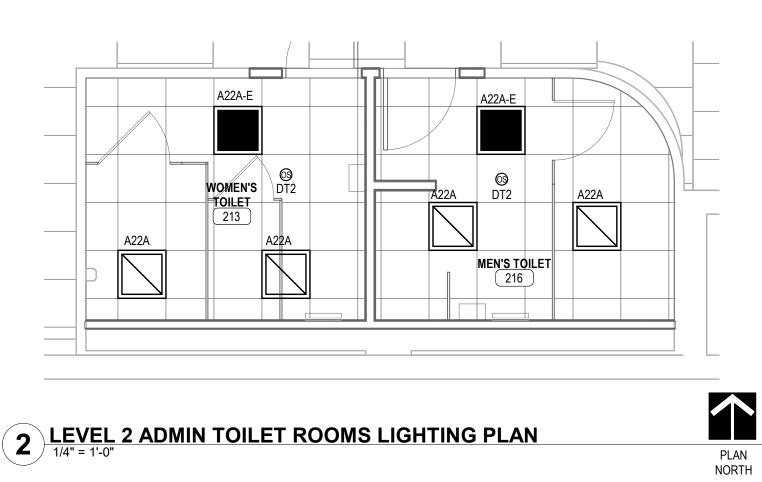
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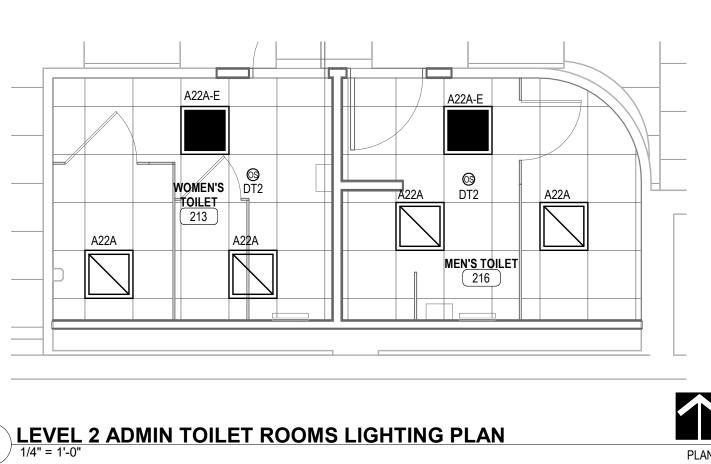
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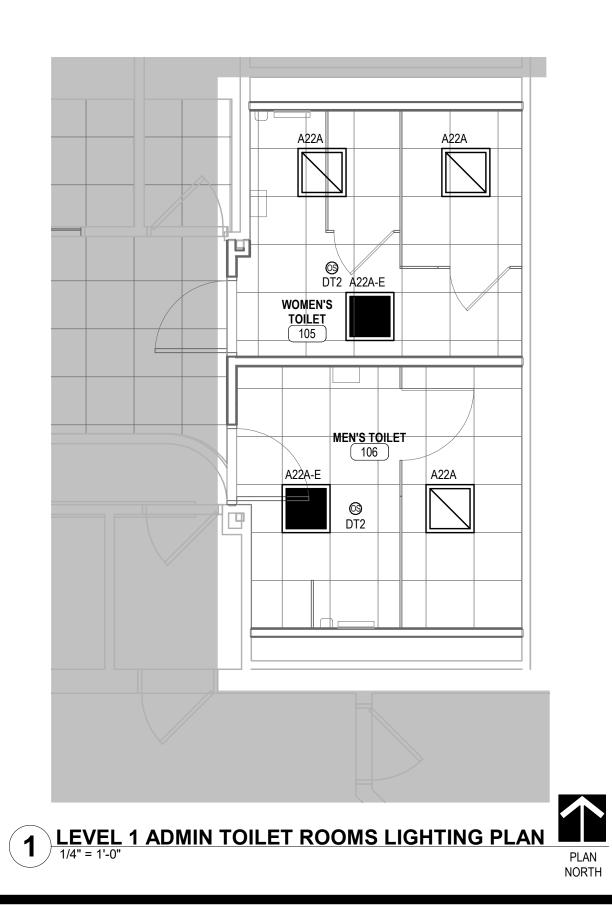
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3 LEVEL 1 DRIVER LOCKER ROOMS LIGHTING PLAN





NORTH

GENERAL SHEET NOTES

REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LIGHTING FIXTURE LOCATIONS WITHIN CEILING.

- REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT BUILDING / WALL-MOUNTED LIGHTING FIXTURE AND CONTROLS LOCATIONS.
- REFER TO LIGHTING SCHEDULES FOR SPECIFIC FIXTURE AND CONTROLS INFORMATION.
- REFER TO SPECIFICATION SECTION 26 0519 FOR REQUIRED CONDUCTOR SIZE ADJUSTMENTS FOR VOLTAGE DROP.
- PROVIDE 6' FLEXIBLE METAL CONDUIT FOR RECESSED LIGHTING FIXTURES INSTALLED IN ACCESSIBLE LAY-IN CEILINGS.
- PROVIDE LIGHTING CONTROL DEVICES PER MANUFACTURER'S RECOMMENDATIONS (CATALOG NUMBER, LOCATION AND QUANTITY); REFER TO SPECIFICATION SECTION 26 0943. DEVICES SHOWN ARE FOR GENERAL DESIGN INTENT ONLY.
- PROVIDE WALL-MOUNTED LIGHTING SWITCHES / CONTROLS TO ACCOMMODATE NEW DOOR CONFIGURATIONS.
- PROVIDE WORK FOR ALL ALTERNATE ITEMS (IF ANY). REFER TO NOTES ON DRAWINGS AND SPECIFICATIONS FOR ALTERNATE DESCRIPTIONS.
- UNLESS NOTED OTHERWISE, CONNECT NEW LIGHT FIXTURES TO EXISTING LIGHTING CIRCUITS FROM PANEL L1, SALVAGED DURING DEMOLITION. CONTROL NEW LIGHT FIXTURES AS INDICATED.
- EMERGENCY LIGHT FIXTURES, INDICATED BY SOLID SHADING, ARE FOR OCCUPANT CONVENIENCE, AND ARE NOT CODE REQUIRED. PROVIDE CIRCUIT FROM EXISTING PANEL E1 TO SERVE FIXTURES. CONTROL LIGHT FIXTURES BY OCCUPANCY SENSORS, AS INDICATED.



21 W. Superior St., Ste 500 | Duluth, MN 55802 | 218.727.8446

CLIENT: DULUTH TRANSIT AUTHORITY (DTA) 2402 WEST MICHIGAN ST. DULUTH, MINNESOTA 55806

	THIS SQUARE A ON FULL SIZE S	APPEARS 1/2"x1/2" SHEETS
 NO	10/24/2022 DATE	100% DOCUMENTS ISSUED FOR
NO	DATE	REVISION
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Date: 10	Printed Name:M //24/2022	ARK J. VINCENT Reg. No.: 52349 C. ALL RIGHTS RESERVED.
PROJECT N OPS AND 2402 V	AME: CENTI TOILE VEST MIC	ER OFFICE T REMODEL CHIGAN ST. IESOTA 55806
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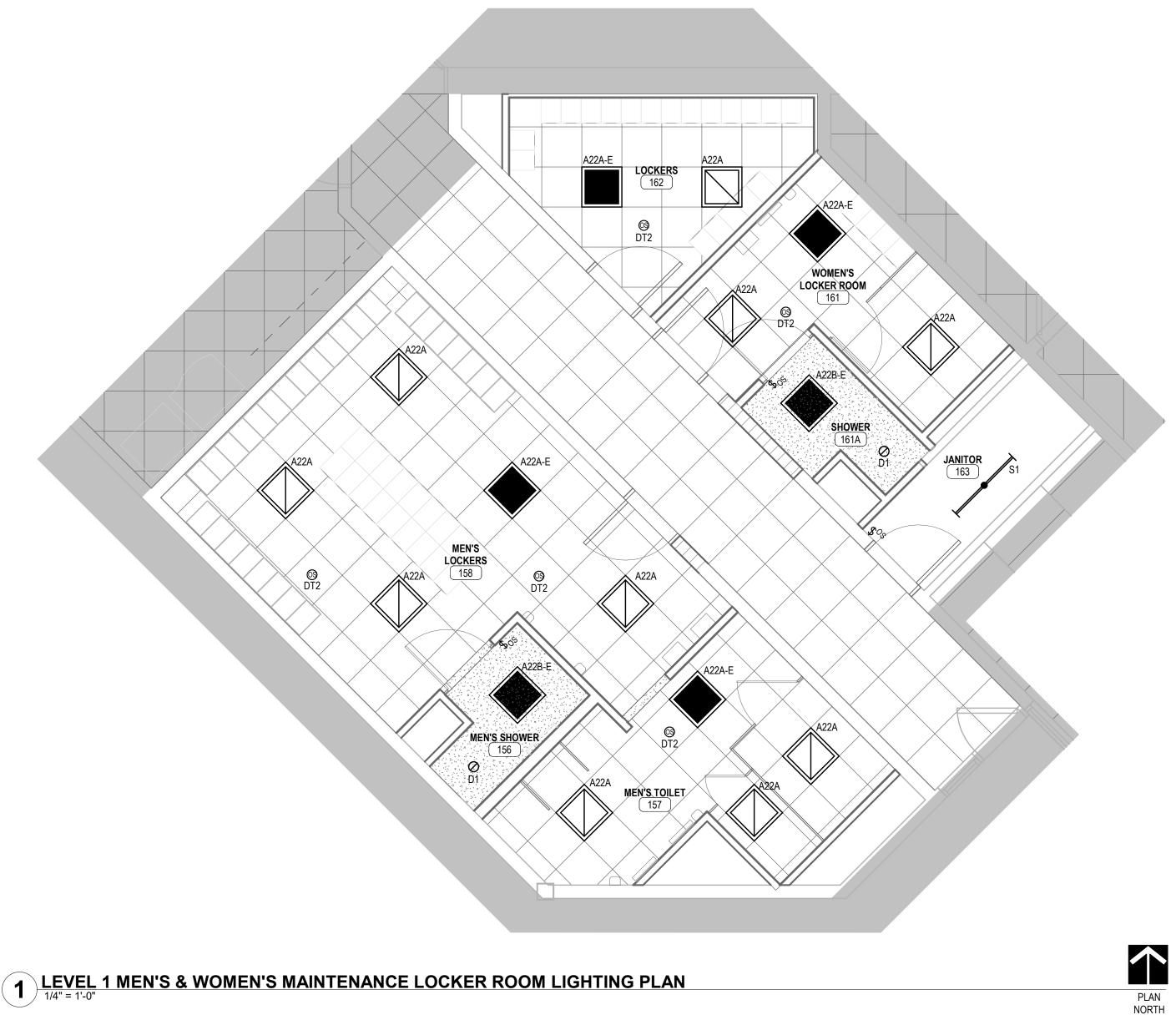
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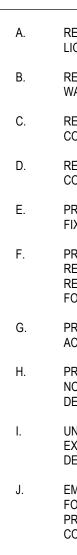
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GENERAL SHEET NOTES

A. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LIGHTING FIXTURE LOCATIONS WITHIN CEILING.

- REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT BUILDING / WALL-MOUNTED LIGHTING FIXTURE AND CONTROLS LOCATIONS.
- C. REFER TO LIGHTING SCHEDULES FOR SPECIFIC FIXTURE AND CONTROLS INFORMATION.
 - REFER TO SPECIFICATION SECTION 26 0519 FOR REQUIRED CONDUCTOR SIZE ADJUSTMENTS FOR VOLTAGE DROP.
 - PROVIDE 6' FLEXIBLE METAL CONDUIT FOR RECESSED LIGHTING FIXTURES INSTALLED IN ACCESSIBLE LAY-IN CEILINGS.
 - PROVIDE LIGHTING CONTROL DEVICES PER MANUFACTURER'S RECOMMENDATIONS (CATALOG NUMBER, LOCATION AND QUANTITY); REFER TO SPECIFICATION SECTION 26 0943. DEVICES SHOWN ARE FOR GENERAL DESIGN INTENT ONLY.
 - PROVIDE WALL-MOUNTED LIGHTING SWITCHES / CONTROLS TO ACCOMMODATE NEW DOOR CONFIGURATIONS.
 - PROVIDE WORK FOR ALL ALTERNATE ITEMS (IF ANY). REFER TO NOTES ON DRAWINGS AND SPECIFICATIONS FOR ALTERNATE DESCRIPTIONS.
 - UNLESS NOTED OTHERWISE, CONNECT NEW LIGHT FIXTURES TO EXISTING LIGHTING CIRCUITS FROM PANEL L4, SALVAGED DURING DEMOLITION. CONTROL NEW LIGHT FIXTURES AS INDICATED.
 - EMERGENCY LIGHT FIXTURES, INDICATED BY SOLID SHADING, ARE FOR OCCUPANT CONVENIENCE, AND ARE NOT CODE REQUIRED. PROVIDE CIRCUIT FROM EXISTING PANEL E4 TO SERVE FIXTURES. CONTROL LIGHT FIXTURES BY OCCUPANCY SENSORS, AS INDICATED.



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CLIENT: DULUTH TRANSIT AUTHORITY (DTA) 2402 WEST MICHIGAN ST. DULUTH, MINNESOTA 55806

	THIS SQUARE ON FULL SIZE	APPEARS 1/2"x1/2" SHEETS
NO	10/24/2022 DATE	100% DOCUMENTS ISSUED FOR
	DATE	REVISION
I HERE report v supervia Profess of Minn Signature	BY CERTIFY th vas prepared by sion and that I a ional Engineer esota.	hat this plan, specification or o me or under my direct am a duly Licensed under the laws of the State
	10/24/2022 HT 2022 BY LHB, IN	Reg. No.: <u>52349</u> NC. ALL RIGHTS RESERVED.
ANE 2402	CENT TOILE	ER OFFICE T REMODEL CHIGAN ST. NESOTA 55806
	ET AN	D LOCKER HTING PLAN

DRAWN BY: AML CHECKED BY: MJV PROJ. NO: 200066 DRAWING NO:

	FIXTURE HOUSIN	G				LIGHT S	OURCE							BASIS	OF DESIGN	APPROVED EQUALS		
TYPE	DESCRIPTION	LENS / DIFFUSER	MOUNTING	SOURCE	MINIMUM LUMEN OUTPUT (Im)	MINIMUM COLOR TEMP (KELVIN)	CRI	MINIMUM PROJECTED LIFE (HOURS)	DRIVER	VOLT	WATT	WATT / FT	EMERGENCY COMPONENTS	MFR	CATALOG SERIES	MFR	CATALOG SERIES	NOT
A22	2' X 2' EDGE-LIT FLAT PANEL FIXTURE WITH SEAMLESS ALUMINUM FRAME.	SATIN WHITE ACRYLIC LENS	RECESSED LAY-IN	LED	3,400	4,000	80	L97 60,000	DIGITAL	120 V	26 W			LITHONIA	EPANL SERIES	METALUX	FP SERIES	
A22-E	2' X 2' EDGE-LIT FLAT PANEL FIXTURE WITH SEAMLESS ALUMINUM FRAME.	SATIN WHITE ACRYLIC LENS	RECESSED LAY-IN	LED	3,400	4,000	80	L97 60,000	DIGITAL	120 V	26 W			LITHONIA	EPANL SERIES	METALUX	FP SERIES	
E1	CONTEMPORARY LED SINGLE FACED EXIT SIGN WITH WHITE POWDER PAINT ALUMINUM HOUSING, WHITE STEEL FACE, RED LETTERS, AND CHEVRON ARROWS AS SHOWN ON PLANS.		UNIVERSAL	LED				50,000	DIGITAL	120 V	5 W			LITHONIA	LES 1 SERIES	SURE-LITES	TPX SERIES	
S1	4' LONG LENSED STRIP WITH STEEL HOUSING, BAKED WHITE ENAMEL FINISH.	CURVED, SEMI-FROST ACRYLIC LENS	CEILING SUSPENDED (AIR-CRAFT CABLE)	LED	3,000	4,000	90		DIGITAL	120 V	30 W			LITHONIA	ZL1D SERIES			
<u>GENE</u>	RAL NOTES:																	
Α.	UNIVERSAL AND MULTI-VOLT DRIVERS ACCEPT	ABLE.																

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TYPE	DESCRIPTION	MANUFACTURE
DT2	DUAL TECHNOLOGY PASSIVE INFRARED AND ULTRASONIC OCCUPANCY SENSOR, STANDARD RANGE.	SEE SPECIFICATIONS
DT3	DUAL TECHNOLOGY PASSIVE INFRARED AND ULTRASONIC OCCUPANCY SENSOR, EXTENDED RANGE.	SEE SPECIFICATIONS
LV	SINGLE GANG, SINGLE PUSHBUTTON FOR LIGHTING CONTROL.	SEE SPECIFICATIONS
LVD	SINGLE GANG, SINGLE PUSHBUTTON FOR LIGHTING CONTROL.	SEE SPECIFICATIONS
<u>GENE</u>	RAL NOTES:	
Α.	MICROPHONICS IS ALLOWED SUBSTITUTION FOR ULTRASONIC.	

					PANCY SORS	LOCAL CO	ONTROLS					
ROOM	ROOM NAME	FC TARGET	TIME CLOCK	AUTO ON	TIME DELAY	WALL SWITCHES	WALL DIMMERS	MULTI- ZONE	DAYLIGHT SENSOR	POWER PACK (PLUG LOAD)	HVAC CONTROLS AUX CONTACT	SEQUENCE
101	VEST	20	Х	Х	15 MIN							SEQ-01
104	STORAGE	10		Х	15 MIN	Х						SEQ-02
107	RECEPTION	30		Х	15 MIN		Х			Х		SEQ-03
108	OFFICE	30		Х	15 MIN		Х			Х		SEQ-03
109	CIRC	10	Х	Х	15 MIN							SEQ-01
111	OFFICE	30		Х	15 MIN		Х			Х		SEQ-03
112	OFFICE	30		Х	15 MIN		Х			Х		SEQ-03
113	OFFICE	30		Х	15 MIN		Х			Х		SEQ-03
114	STRIDE	30		Х	15 MIN		Х					SEQ-03
115	CASHIER	30		Х	15 MIN		Х					SEQ-03
125	CIRC	10	Х	Х	15 MIN							SEQ-01
127	DRIVERS LOUNGE	20		Х	15 MIN		Х					SEQ-03
128	SUPERVISOR OFFICE	30		Х	15 MIN		Х			Х		SEQ-03
129	STRIDE	30		Х	15 MIN		Х					SEQ-03
159	LOUNGE	20		Х	15 MIN		Х					SEQ-03
164	OFFICE	30		Х	15 MIN		Х					SEQ-03
165	OFFICE	30		Х	15 MIN		Х					SEQ-03
166	WORK	30		Х	15 MIN		Х					SEQ-03
167	OFFICE	30		Х	15 MIN		Х					SEQ-03
168	STORAGE	10		Х	15 MIN	Х						SEQ-02
202	BOARD ROOM	30		Х	15 MIN		Х					SEQ-03

EMERGENCY LIGHTING, WHERE PROVIDED, WILL COME ON TO 100% OUTPUT UPON LOSS OF BUILDING POWER.

WHERE REQUIRED BY CODE, DAYLIGHT SENSOR(S) FOR PRIMARY AND SECONDARY DAYLIGHT ZONES WILL AUTOMATICALLY ADJUST THE LIGHTING LEVEL C. FOR THE DAYLIGHT CONTRIBUTION.

NETWORK LIGHTING CONTROL SYSTEM SHALL PROVIDE ACCOMMODATIONS TO ACCEPT AN IN-ROOM SOFTWARE TRIGGER FROM THE AUDIO-VISUAL D. SYSTEM (RS-232 SERIAL COMMUNICATIONS) TO SELECT ONE OF THE PRESET SCENES. PROVIDE PROGRAMMING COORDINATION FOR EACH SPACE THAT HAS AUDIO VISUAL SYSTEMS WITHIN THE SPACE.

SEQUENCE:

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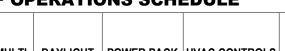
SEQ-01: DURING NORMAL BUSINESS HOURS (TO BE CONFIRMED WITH THE OWNER) THE CORRIDOR LIGHTING IS CONTROLLED BY TIME CLOCK. OUTSIDE OF NORMAL BUSINESS HOURS, CORRIDOR LIGHTING IS CONTROLLED VIA OCCUPANCY SENSORS. WHEN A USER ENTERS A CORRIDOR AND MOTION IS DETECTED, THE LIGHTS ASSOCIATED WITH A PARTICULAR SENSOR WILL TURN ON. AFTER 15 MINUTES OF NO OCCUPANCY BEING DETECTED, THE CORRIDOR LIGHTING IN THAT AREA WILL TURN OFF. NO MANUAL CONTROLS ARE PROVIDED FOR CORRIDORS. LINEAR LIGHTING AT GROUP LEARN SPACES WILL BE ON AT 50% OUTPUT WHEN GROUP LEARN SPACES ARE UNOCCUPIED. SEQ-02: WHEN A USER ENTERS THE ROOM, THE LIGHTING WILL COME ON VIA COMBINATION WALL-MOUNTED OCCUPANCY SENSOR / LIGHT SWITCH. AFTER 15 MINUTES OF NO OCCUPANCY BEING DETECTED, THE LIGHTING WILL TURN OFF.

SEQ-03: WHEN A USER ENTERS THE ROOM, LIGHTS WILL COME ON AT 50% OUTPUT VIA OCCUPANCY SENSOR (WALL OR CEILING MOUNTED). A SINGLE-ZONE DIMMER SWITCH WILL ALLOW THE USER TO ADJUST THE LIGHT LEVEL.

AT LEAST 50% OF THE RECEPTACLES IN THIS SPACE ARE CONTROLLED VIA THE ROOM'S OCCUPANCY SENSOR.

AFTER 15 MINUTES OF NO OCCUPANCY BEING DETECTED, THE LIGHTING AND CONTROLLED RECEPTACLES WILL TURN OFF.

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C A 24	ND 402 W	CENTE TOILE	ER OFFICE F REMODEL CHIGAN ST. ESOTA 55806	
			ECTRICAL	

DRAWN BY: AML CHECKED BY: MJV PROJ. NO: 190559 DRAWING NO:

SCHEDULES



	FIXTURE HOUSIN	G				LIGHT S	OURCE						BASIS	OF DESIGN	APPROVED EQUALS		
TYPE	DESCRIPTION	LENS / DIFFUSER	MOUNTING	SOURCE	MINIMUM LUMEN OUTPUT (Im)	MINIMUM COLOR TEMP (KELVIN)	CRI	MINIMUM PROJECTED LIFE (HOURS)	DRIVER	VOLT	WATT	EMERGENCY COMPONENTS	MFR	CATALOG SERIES	MFR	CATALOG SERIES	NO
A22A	2' X 2' EDGE-LIT FLAT PANEL FIXTURE WITH SEAMLESS ALUMINUM FRAME.	SATIN WHITE ACRYLIC LENS	RECESSED LAY-IN	LED	2,000	4,000	80	L97 60,000	DIGITAL	120 V	26 W		LITHONIA	EPANL SERIES	METALUX	FP SERIES	
A22A-E	2' X 2' EDGE-LIT FLAT PANEL FIXTURE WITH SEAMLESS ALUMINUM FRAME.	SATIN WHITE ACRYLIC LENS	RECESSED LAY-IN	LED	2,000	4,000	80	L97 60,000	DIGITAL	120 V	26 W		LITHONIA	EPANL SERIES	METALUX	FP SERIES	
A22B-E	2' X 2' EDGE-LIT FLAT PANEL FIXTURE WITH SEAMLESS ALUMINUM FRAME.	SATIN WHITE ACRYLIC LENS	CEILING RECESSED	LED	2,000	4,000	80	L97 60,000	DIGITAL	120 V	26 W		LITHONIA	EPANL SERIES	METALUX	FP SERIES	
D1	6" DIAMETER SHOWER DOWNLIGHT, FLUSH LENS WITH WHITE PAINTED TRIM, IP65 RATED WET LOCATION.	SMOOTH CLEAR LENS	CEILING RECESSED	LED	750	4,000	90	L70 60,000	DIGITAL	120 V	8 W		GOTHAM	EVO6SH SERIES	PORTFOLIO	LD6B SERIES	
S1	4' LONG LENSED STRIP WITH STEEL HOUSING, BAKED WHITE ENAMEL FINISH.	CURVED, SEMI-FROST ACRYLIC LENS	CEILING SUSPENDED (AIR-CRAFT CABLE)	LED	3,000	4,000	90		DIGITAL	120 V	209 W		LITHONIA	ZL1D SERIES	METALUX	SNLED SERIES	
GENER	AL NOTES:																
A.	UNIVERSAL AND MULTI-VOLT DRIVERS ACCEPT	ABLE.															

	LIGHTING CONTROL DEVICE SCHED	ULE
TYPE	DESCRIPTION	MANUFACTURER
DT2	DUAL TECHNOLOGY PASSIVE INFRARED AND ULTRASONIC	SEE
	OCCUPANCY SENSOR, STANDARD RANGE.	SPECIFICATIONS
OS	COMBINATION ULTRASONIC OCCUPANCY SENSOR/SWITCH, WALL	SEE
	MOUNTED, LINE VOLTAGE, WITH ON-OFF PUSHBUTTON.	SPECIFICATIONS
<u>GENE</u>	RAL NOTES:	
А.	MICROPHONICS IS ALLOWED SUBSTITUTION FOR ULTRASONIC.	

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			TIME SC	HEDULED	OCCU	PANCY SE	NSORS	0	VERRIDE			POWER	
ROOM	ROOM NAME	FC TARGET	PHOTO CELL	TIME CLOCK	AUTO ON	MANUAL ON	TIME DELAY	WALL SWITCHES	WALL DIMMERS	MULTI- ZONE	DAYLIGHT SENSOR	PACK (PLUG LOAD)	NOTES
106	WOMEN'S TOILET	10			Х		15 MIN						
107	MEN'S TOILET	10			Х		15 MIN						
116	WOMEN'S LOCKER ROOM	10			Х		15 MIN						
117	LACTATION	10			Х		15 MIN						
118	WOMEN'S SHOWER	10			Х		15 MIN	Х					
119	WOMEN'S TOILET	10			Х		15 MIN						
120	MEN'S TOILET	10			Х		15 MIN						
121	MEN'S LOCKER ROOM	10			Х		15 MIN						
122	MEN'S SHOWER	10			Х		15 MIN	Х					
156	MEN'S SHOWER	10			Х		15 MIN	Х					
157	MEN'S TOILET	10			Х		15 MIN						
158	MEN'S LOCKERS	10			Х		15 MIN						
161	WOMEN'S LOCKER ROOM	10			Х		15 MIN						
161A	SHOWER	10			Х		15 MIN						
162	LOCKERS	10			Х		15 MIN						
163	JANITOR	10			Х		15 MIN	Х					
213	WOMEN'S TOILET	10			Х		15 MIN						
216	MEN'S TOILET	10			Х		15 MIN						
<u>gene</u> A.	RAL NOTES: OCCUPANCY SENSOR	TIME OUT	IS 15 MIN	UTES, UNL	ESS OTI	HERWISE N	NOTED.						

				ELEC	CTRIC	AL E	QUIPN		SCHED	ULE				
				LC	DAD									
				A CONDUIT &							STARTER CONTROL DEVICE DISCONNECT			
NO.	DESCRIPTION	ROOM	HP	FLA	MCA	W	VOLT	PHASE	SCCR	WIRE SIZE	COMPONENT	COMPONENT	COMPONENT	NOTES
CUH	CABINET UNIT HEATER	121		18			120	1		2#12, 1#12G,	W/UNIT	DIV 23	W/UNIT	
										3/4"C				

GENERAL NOTES:

INPUT AND OUTPUT CONDUCTORS TO AND FROM VFD'S SHALL BE INSTALLED IN SEPARATE RACEWAYS, INDEPENDENT FROM ANY OTHER CONDUCTORS, AND SHALL NOT PASS THRU ANY COMMON WIREWAY OR RACEWAY. Α.

SCHEDULE NOTES:

1. NOTE.



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CLIENT: DULUTH TRANSIT AUTHORITY (DTA) 2402 WEST MICHIGAN ST. DULUTH, MINNESOTA 55806

THIS SQUARE APPEARS 1/2"x1/2" ON FULL SIZE SHEETS 100% DOCUMENTS 10/24/2022 ISSUED FOR DATE NO DATE NO REVISION I HEREBY CERTIFY that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota. Signature: _____ Typed or Printed Name: MARK J. VINCENT Date: 10/24/2022 Reg. No.: 52349 COPYRIGHT 2022 BY LHB, INC. ALL RIGHTS RESERVED. PROJECT NAME: **OPS CENTER OFFICE** AND TOILET REMODEL 2402 WEST MICHIGAN ST. DULUTH, MINNESOTA 55806 DRAWING TITLE: TOILET AND LOCKER **ROOM ELECTRICAL** SCHEDULES

DRAWN BY: AML CHECKED BY: MJV PROJ. NO: 200066 DRAWING NO:

