

CITY OF ANN ARBOR, MI

WATER TREATMENT SERVICES UNIT

ROOFING & RESTORATION PROJECTS

SHEET INDEX

ROOFING SECTION

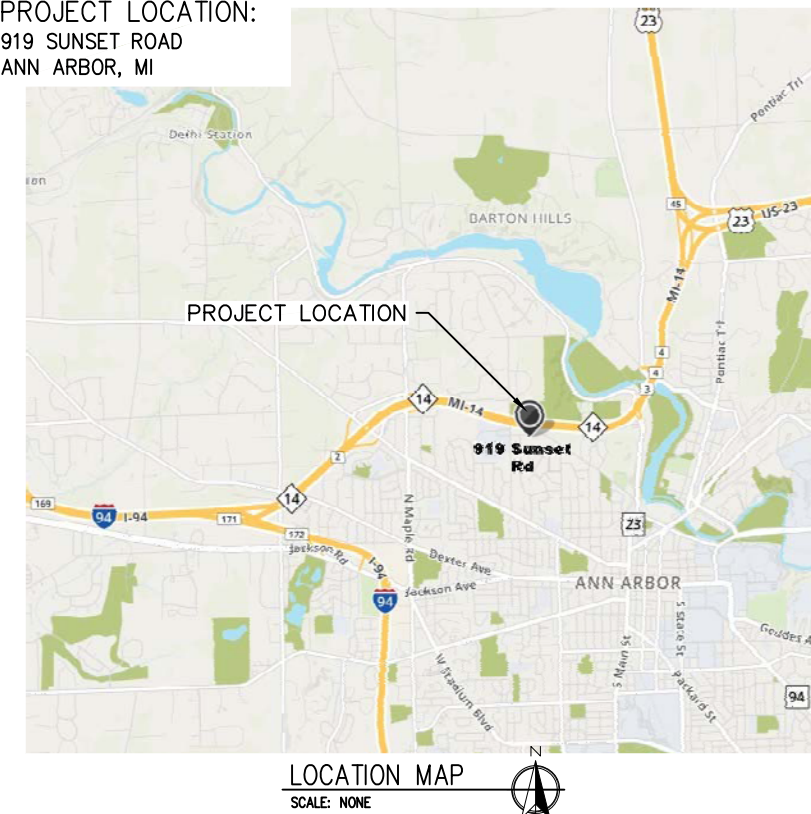
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|-----------|--|
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PROJECT LOCATION:
919 SUNSET ROAD
ANN ARBOR, MI



STEC PROJECT No.:
T18074

CLIENT PROJECT No.:
ITB #: 4533

PROJECT DESCRIPTION / NOTES:
ROOFING, BUILDING RESTORATION AND INTERIOR RENOVATION WORK

VICINITY MAP:



ANN ARBOR, MICHIGAN

StructureTec

Total Building Envelope Management SolutionSM
 4777 Campus Drive • Kalamazoo, MI 49008
 1121 Lake Cook Road, Ste C • Deerfield, IL 60015
 473 Airport Road, Ste 1 • Butler, PA 16002
 34119 W. Twelve Mile Road, Ste 270 • Farmington Hills, MI 48331

COVER SHEET

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR - WATER TREATMENT

REVISIONS / ADDENDA:

SCALE:

N.T.S.

APPROVED BY:

K.E.T.

DRAWN BY:

K.L.E.

DATE:

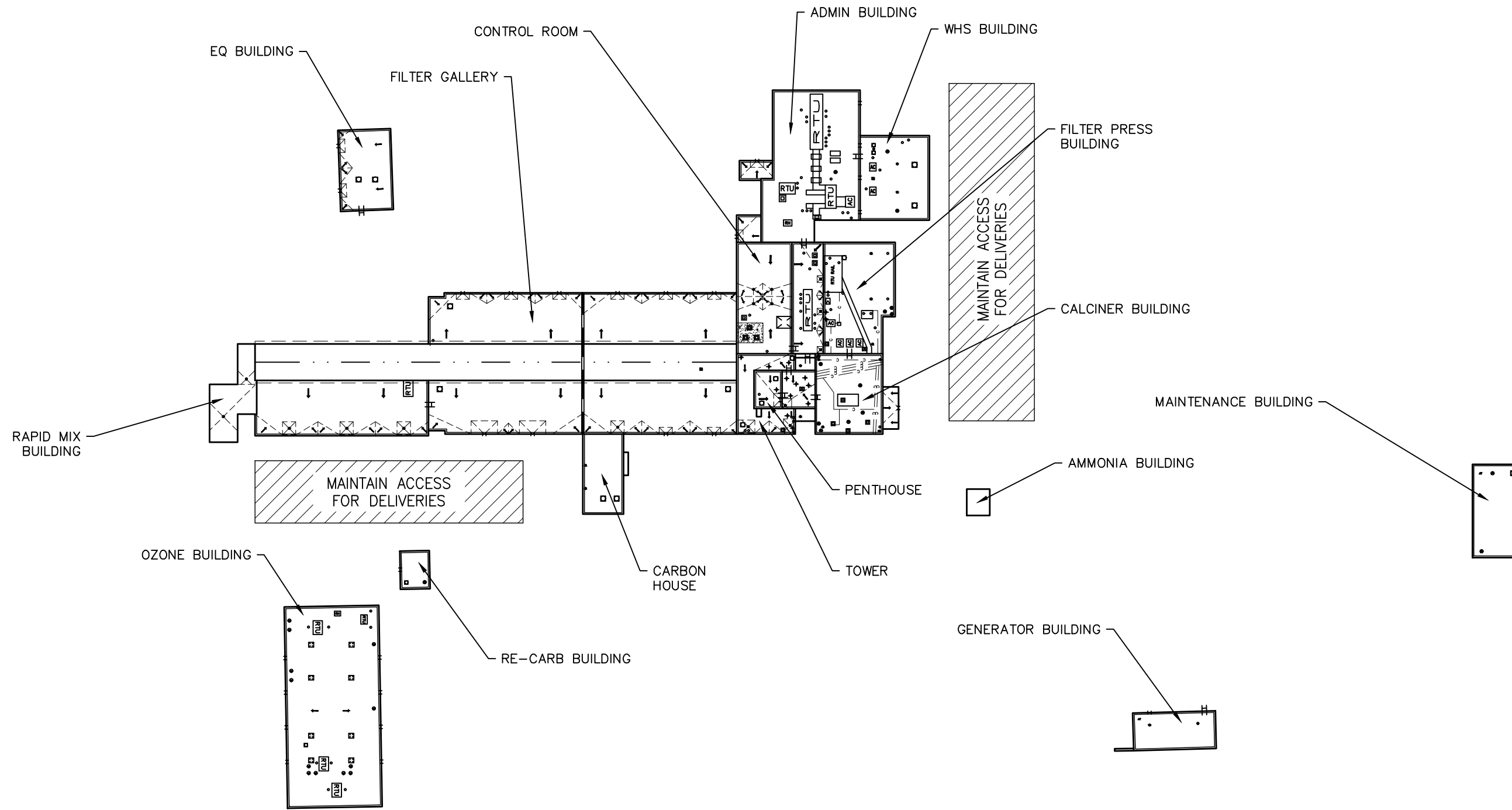
NOVEMBER, 2018

PROJECT NUMBER:

T18074.RFG

DRAWING NUMBER:

C-1



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SITE PLAN
 WATER TREATMENT PLANT

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

REVISIONS / ADDENDA:

SCALE:

N.T.S.

APPROVED BY:

K.E.T.

DRAWN BY:

K.L.E.

DATE:

NOVEMBER, 2018

PROJECT NUMBER:

T18074.RFG

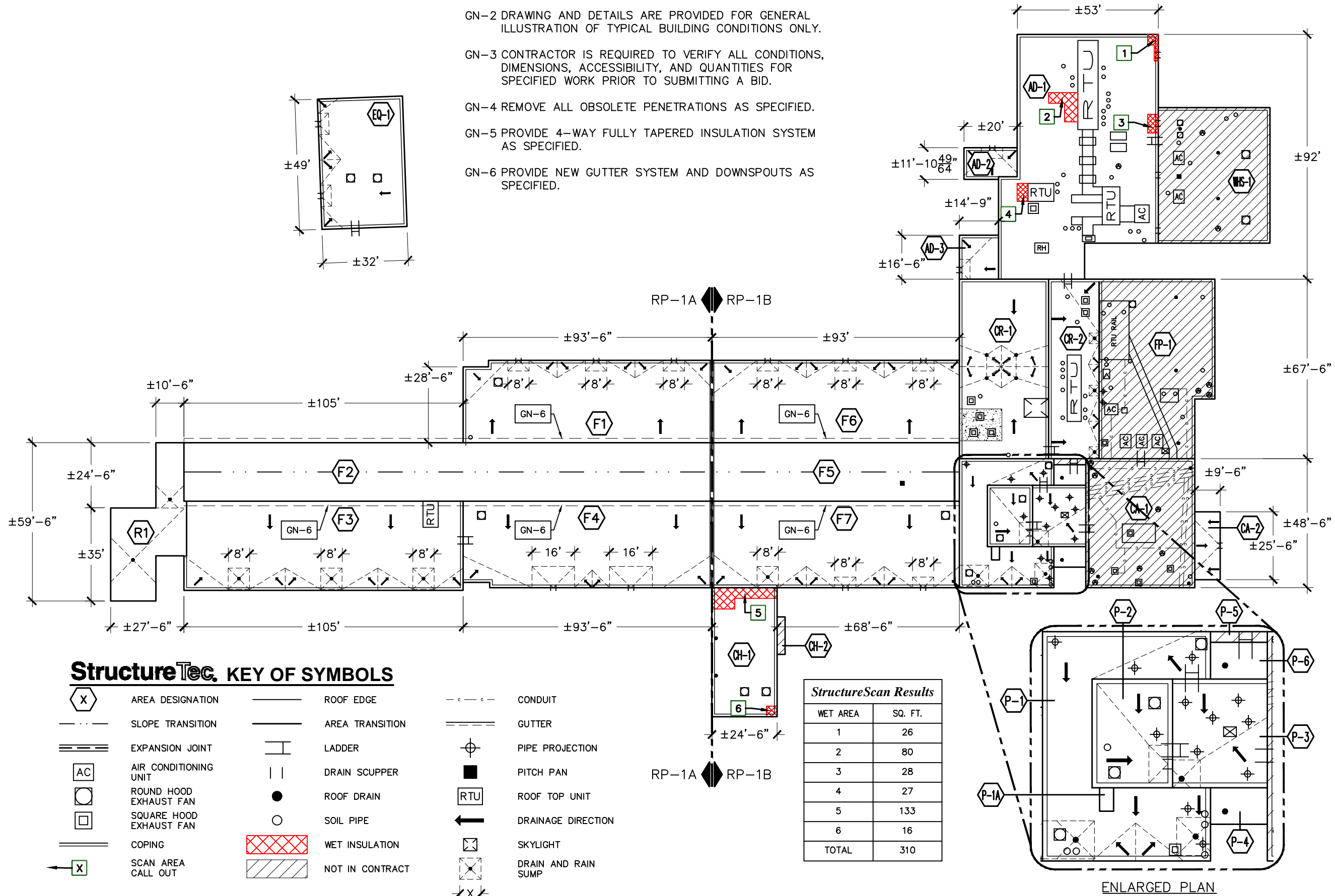
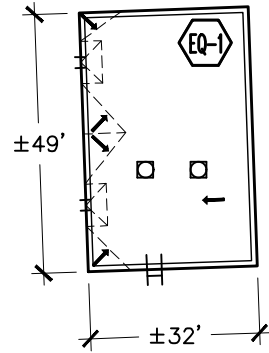
DRAWING NUMBER:

SP-1



GENERAL NOTES:

- GN-1 PERFORM ROOF REPLACEMENT IN CONFORMANCE WITH WRITTEN SPECIFICATIONS IN THE PROJECT MANUAL.
- GN-2 DRAWING AND DETAILS ARE PROVIDED FOR GENERAL ILLUSTRATION OF TYPICAL BUILDING CONDITIONS ONLY.
- GN-3 CONTRACTOR IS REQUIRED TO VERIFY ALL CONDITIONS, DIMENSIONS, ACCESSIBILITY, AND QUANTITIES FOR SPECIFIED WORK PRIOR TO SUBMITTING A BID.
- GN-4 REMOVE ALL OBSOLETE PENETRATIONS AS SPECIFIED.
- GN-5 PROVIDE 4-WAY FULLY TAPERED INSULATION SYSTEM AS SPECIFIED.
- GN-6 PROVIDE NEW GUTTER SYSTEM AND DOWNSPOUTS AS SPECIFIED.



StructureScan Results	
WET AREA	SQ. FT.
1	26
2	80
3	28
4	27
5	133
6	16
TOTAL	310

StructureTec. KEY OF SYMBOLS

- | | | | | | |
|--|-------------------------|--|-----------------|--|---------------------|
| | AREA DESIGNATION | | ROOF EDGE | | CONDUIT |
| | SLOPE TRANSITION | | AREA TRANSITION | | GUTTER |
| | EXPANSION JOINT | | LADDER | | PIPE PROJECTION |
| | AIR CONDITIONING UNIT | | DRAIN SCUPPER | | PITCH PAN |
| | ROUND HOOD EXHAUST FAN | | ROOF DRAIN | | ROOF TOP UNIT |
| | SQUARE HOOD EXHAUST FAN | | SOIL PIPE | | DRAINAGE DIRECTION |
| | COPING | | WET INSULATION | | SKYLIGHT |
| | SCAN AREA CALL OUT | | NOT IN CONTRACT | | DRAIN AND RAIN SUMP |
| | | | | | |

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OVER ALL ROOFING REPLACEMENT PLAN
 WATER TREATMENT PLANT
 919 SUNSET ROAD, ANN ARBOR MI 48103

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

REVISIONS / ADDENDA:

SCALE:

N.T.S.

APPROVED BY:

K.E.T.

DRAWN BY:

K.L.E.

DATE:

NOVEMBER, 2018

PROJECT NUMBER:

T18074.RFG

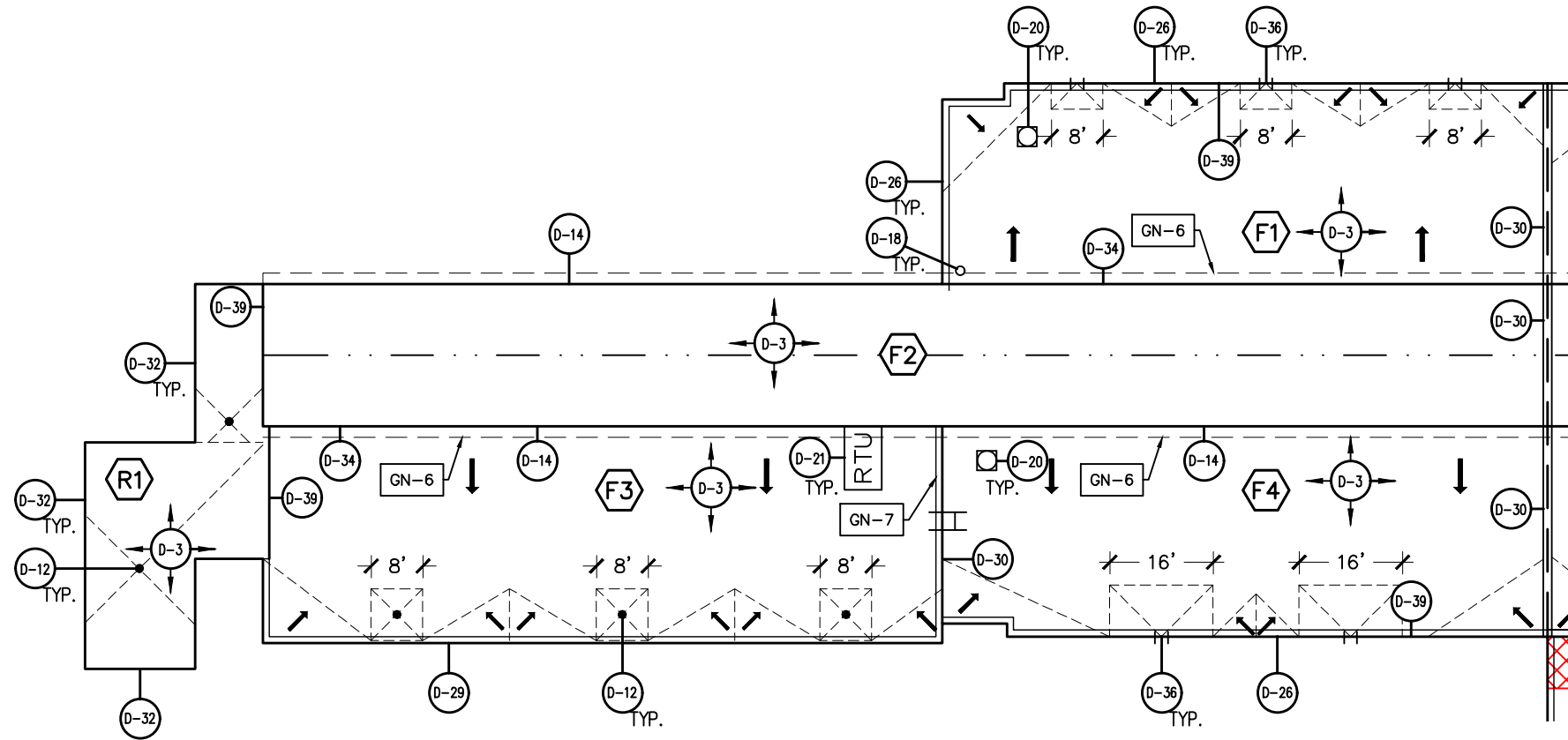
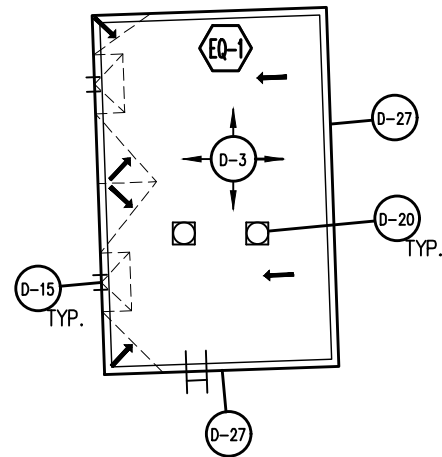
DRAWING NUMBER:

RP-1

ENLARGED PLAN

GENERAL NOTES:

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- GN-4 REMOVE ALL OBSOLETE PENETRATIONS AS SPECIFIED.
- GN-5 PROVIDE 4-WAY FULLY TAPERED INSULATION SYSTEM AS SPECIFIED.
- GN-6 PROVIDE NEW GUTTER SYSTEM AND DOWNSPOUTS AS SPECIFIED.
- GN-7 REMOVE SECTION OF MASONRY PARAPET WALL TO BELOW LEVEL OF ROOF DECK; PROVIDE EXPANSION JOINT AT NEW ROOF SYSTEM.



StructureTec. KEY OF SYMBOLS

	AREA DESIGNATION		ROOF EDGE		CONDUIT		COPING		SKYLIGHT		DRAIN AND RAIN SUMP
	SLOPE TRANSITION		AREA TRANSITION		GUTTER		SCAN AREA CALL OUT		WET INSULATION		NOT IN CONTRACT
	EXPANSION JOINT		LADDER		PIPE PROJECTION		WET INSULATION		NOT IN CONTRACT		DETAIL CALLOUT
	AIR CONDITIONING UNIT		DRAIN SCUPPER		PITCH PAN		WET INSULATION		NOT IN CONTRACT		
	ROUND HOOD EXHAUST FAN		ROOF DRAIN		ROOF TOP UNIT		WET INSULATION		NOT IN CONTRACT		
	SQUARE HOOD EXHAUST FAN		SOIL PIPE		DRAINAGE DIRECTION		DETAIL CALLOUT				

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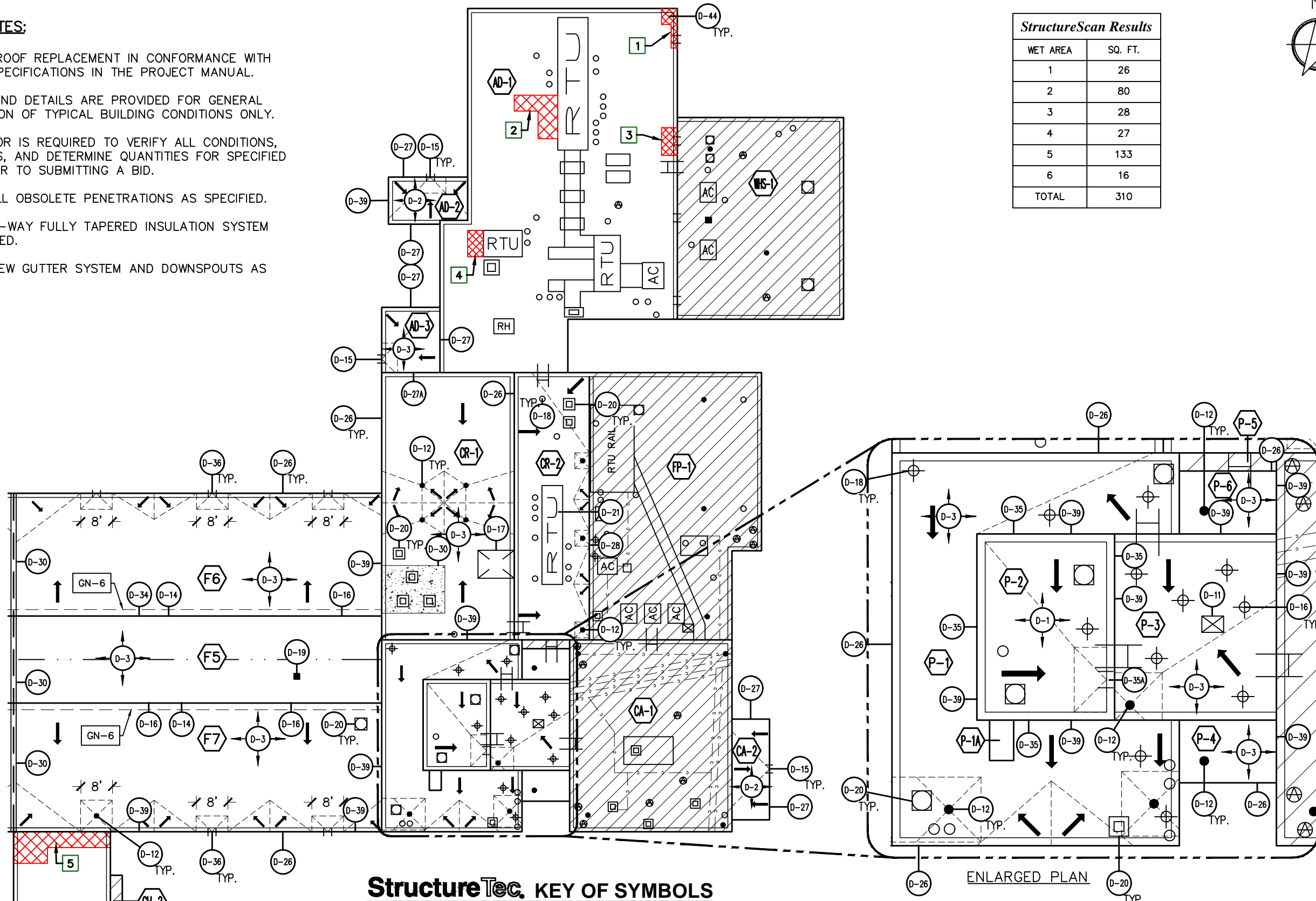
ROOFING REPLACEMENT PLAN
 WATER TREATMENT PLANT
 919 SUNSET ROAD, ANN ARBOR MI 48103
 2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

REVISIONS / ADDENDA:
SCALE:
N.T.S.
APPROVED BY:
K.E.T.
DRAWN BY:
K.L.E.
DATE:
NOVEMBER, 2018
PROJECT NUMBER:
T18074.RFG
DRAWING NUMBER:
RP-1A

GENERAL NOTES:

- GN-1 PERFORM ROOF REPLACEMENT IN CONFORMANCE WITH WRITTEN SPECIFICATIONS IN THE PROJECT MANUAL.
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- GN-6 PROVIDE NEW GUTTER SYSTEM AND DOWNSPOUTS AS SPECIFIED.

StructureScan Results	
WET AREA	SQ. FT.
1	26
2	80
3	28
4	27
5	133
6	16
TOTAL	310



StructureTec. KEY OF SYMBOLS

- | | | | | | | | | | |
|--|-------------------------|--|-----------------|--|--------------------|--|--------------------|--|---------------------|
| | AREA DESIGNATION | | ROOF EDGE | | CONDUIT | | COPING | | DRAIN AND RAIN SUMP |
| | SLOPE TRANSITION | | AREA TRANSITION | | GUTTER | | SKYLIGHT | | SCAN AREA CALL OUT |
| | EXPANSION JOINT | | LADDER | | PIPE PROJECTION | | SCAN AREA CALL OUT | | WET INSULATION |
| | AIR CONDITIONING UNIT | | DRAIN SCUPPER | | PITCH PAN | | NOT IN CONTRACT | | DETAIL CALLOUT |
| | ROUND HOOD EXHAUST FAN | | ROOF DRAIN | | DRAINAGE DIRECTION | | | | |
| | SQUARE HOOD EXHAUST FAN | | SOIL PIPE | | | | | | |

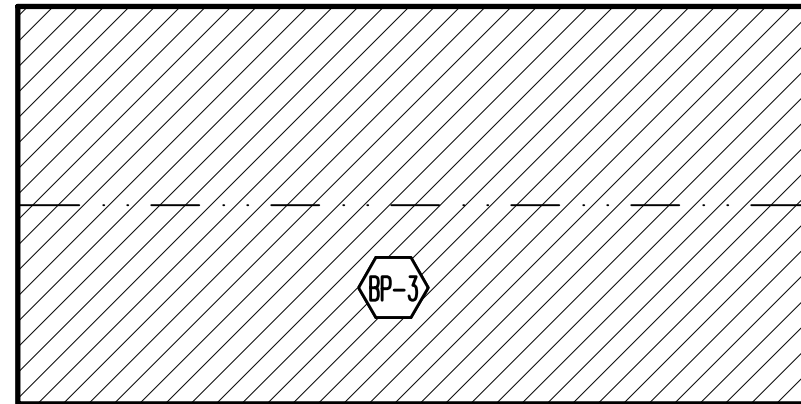
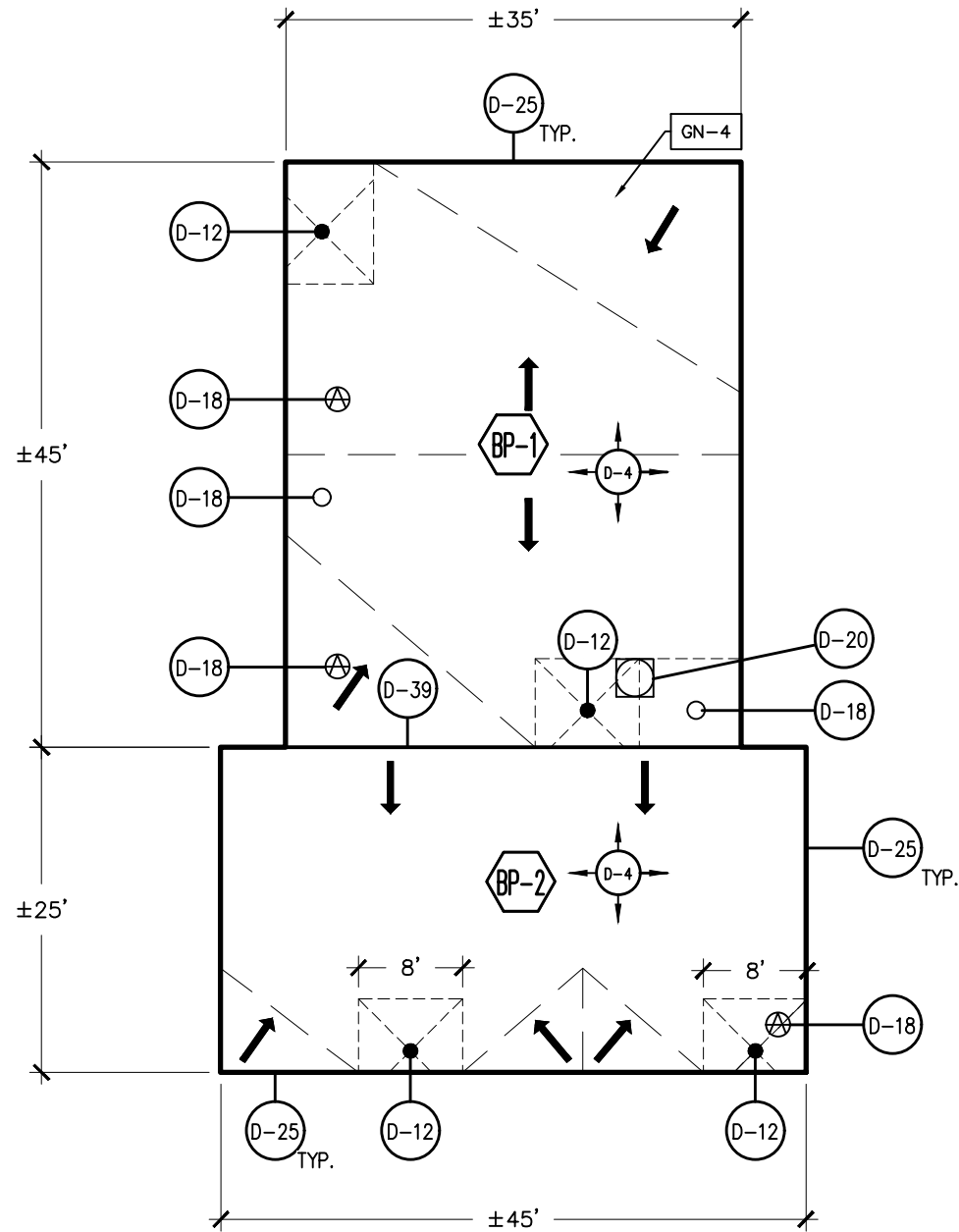
StructureTec.
 Total Building Envelope Management SolutionsSM
 4777 Campus Drive • Kalamazoo, MI 49008
 1121 Lake Cook Road, Ste C • Deerfield, IL 60015
 473 Airport Road, Ste 1 • Butler, PA 16002
 34119 W. Twelve Mile Road, Ste 270 • Farmington Hills, MI 48331

ROOFING REPLACEMENT PLAN
 WATER TREATMENT PLANT
 919 SUNSET ROAD, ANN ARBOR MI 48103
 2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

REVISIONS / ADDENDA:
SCALE: N.T.S.
APPROVED BY: K.E.T.
DRAWN BY: K.L.E.
DATE: NOVEMBER, 2018
PROJECT NUMBER: T18074.RFG
DRAWING NUMBER: RP-1B

GENERAL NOTES:

- GN-1 PERFORM ROOF REPLACEMENT IN CONFORMANCE WITH WRITTEN SPECIFICATIONS IN THE PROJECT MANUAL.
- GN-2 DRAWING AND DETAILS ARE PROVIDED FOR GENERAL ILLUSTRATION OF TYPICAL BUILDING CONDITIONS ONLY.
- GN-3 CONTRACTOR IS REQUIRED TO VERIFY ALL CONDITIONS, DIMENSIONS, AND DETERMINE QUANTITIES FOR SPECIFIED WORK PRIOR TO SUBMITTING A BID.
- GN-4 PROVIDE 4-WAY FULLY TAPERED INSULATION SYSTEM AS SPECIFIED



StructureTec. KEY OF SYMBOLS

	AREA DESIGNATION		ROOF EDGE		STACK PROJECTION
	SLOPE TRANSITION		AREA TRANSITION		ROOF DRAIN
	ROUND HOOD EXHAUST FAN		SOIL PIPE		NOT IN CONTRACT
	DRAINAGE DIRECTION		DETAIL CALLOUT		DRAIN AND RAIN SUMP

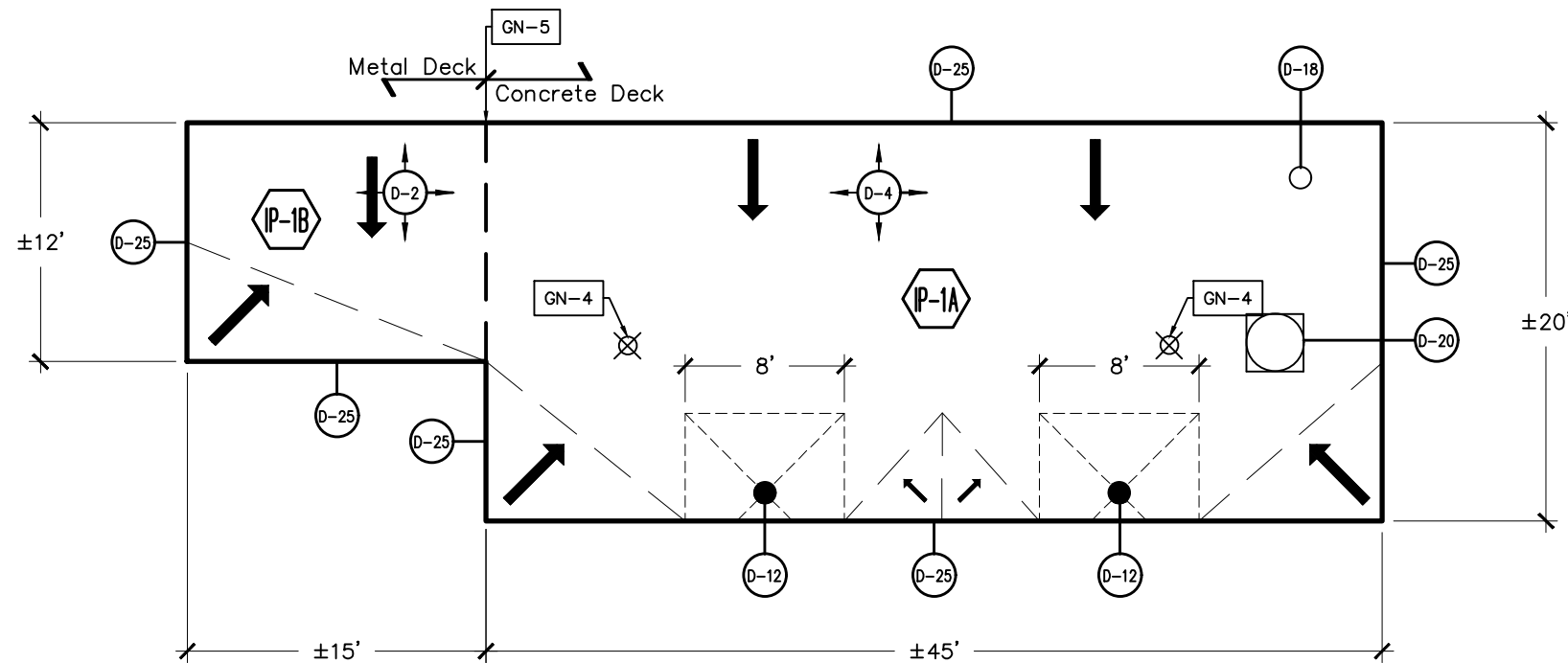
StructureTec.
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 473 Airport Road, Ste 1 • Butler, PA 16002
 34119 W. Twelve Mile Road, Ste 270 • Farmington Hills, MI 48331

ROOFING REPLACEMENT PLAN
 BARTON PUMPING STATION
 1010 HURON RIVER DRIVE, ANN ARBOR MI 48103
 2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

REVISIONS / ADDENDA:
SCALE:
N.T.S.
APPROVED BY:
K.E.T.
DRAWN BY:
K.L.E.
DATE:
NOVEMBER, 2018
PROJECT NUMBER:
T18074.RFG
DRAWING NUMBER:
RP-2

GENERAL NOTES:

- GN-1 PERFORM ROOF REPLACEMENT IN CONFORMANCE WITH WRITTEN SPECIFICATIONS IN THE PROJECT MANUAL.
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- GN-3 CONTRACTOR IS REQUIRED TO VERIFY ALL CONDITIONS, DIMENSIONS, AND DETERMINE QUANTITIES FOR SPECIFIED WORK PRIOR TO SUBMITTING A BID
- GN-4 REMOVE OBSOLETE PENETRATIONS AS SPECIFIED.
- GN-5 THIS LINE SEPARATES METAL DECKING FROM CONCRETE DECKING. REFER TO SPECIFICATIONS FOR INSULATION FASTENING REQUIREMENTS PER DECK TYPE.



StructureTec. KEY OF SYMBOLS

- | | | | | | |
|--|------------------------|--|-----------------|--|--------------------------|
| | AREA DESIGNATION | | ROOF EDGE | | OBSOLETE PIPE PROJECTION |
| | ROOF DRAIN | | AREA TRANSITION | | DRAINAGE DIRECTION |
| | ROUND HOOD EXHAUST FAN | | SOIL PIPE | | DRAIN AND RAIN SUMP |
| | DETAIL CALLOUT | | | | |

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 473 Airport Road, Ste 1 • Butler, PA 16002
 34119 W. Twelve Mile Road, Ste 270 • Farmington Hills, MI 48331

ROOF REPLACEMENT PLAN
 INDUSTRIAL PUMPING STATION
 1990 S. INDUSTRIAL HWY, ANN ARBOR MI 48104

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

REVISIONS / ADDENDA:

--

SCALE:

N.T.S.

APPROVED BY:

K.E.T.

DRAWN BY:

K.L.E.

DATE:

NOVEMBER, 2018

PROJECT NUMBER:

T18074.RFG

DRAWING NUMBER:

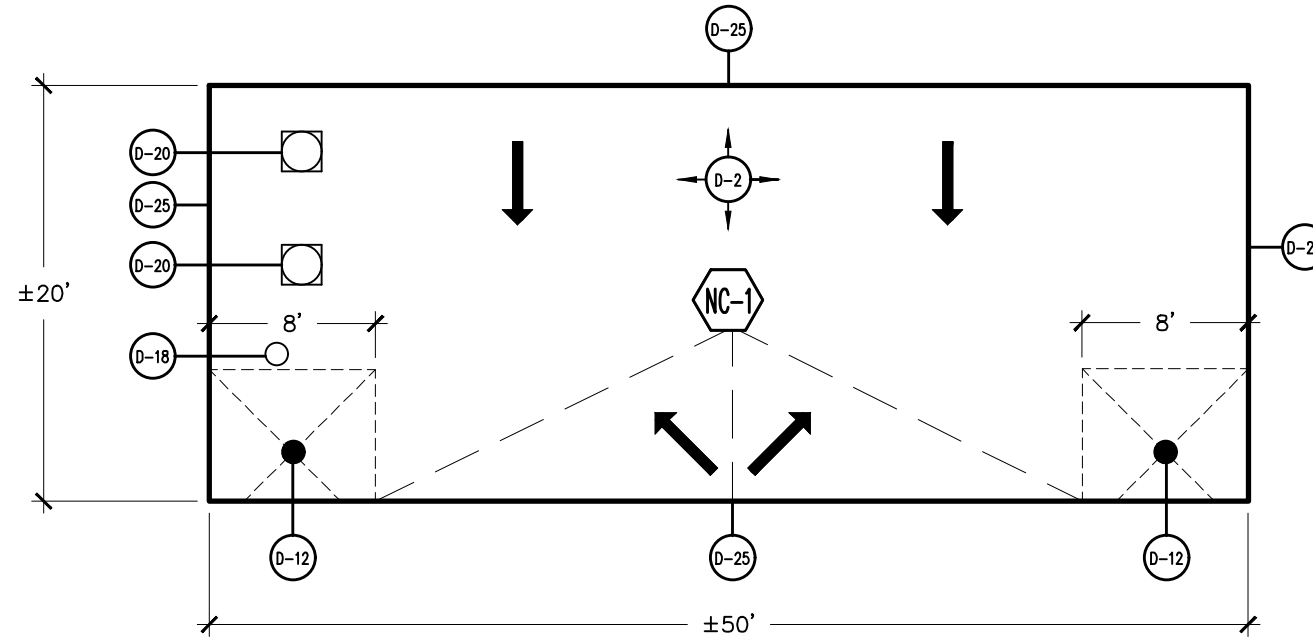
RP-3

GENERAL NOTES:

- GN-1 PERFORM ROOF REPLACEMENT IN CONFORMANCE WITH WRITTEN SPECIFICATIONS IN THE PROJECT MANUAL.
- GN-2 DRAWING AND DETAILS ARE PROVIDED FOR GENERAL ILLUSTRATION OF TYPICAL BUILDING CONDITIONS ONLY.
- GN-3 CONTRACTOR IS REQUIRED TO VERIFY ALL CONDITIONS, DIMENSIONS, AND DETERMINE QUANTITIES FOR SPECIFIED WORK PRIOR TO SUBMITTING A BID.



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 1121 Lake Cook Road, Ste C • Deerfield, IL 60015
 473 Airport Road, Ste 1 • Butler, PA 16002
 34119 W. Twelve Mile Road, Ste 270 • Farmington Hills, MI 48331



StructureTec. KEY OF SYMBOLS

- | | | | | | |
|--|------------------------|--|-----------------|--|---------------------|
| | AREA DESIGNATION | | ROOF EDGE | | STACK PROJECTION |
| | ROOF DRAIN | | AREA TRANSITION | | DRAINAGE DIRECTION |
| | ROUND HOOD EXHAUST FAN | | SOIL PIPE | | DRAIN AND RAIN SUMP |
| | DETAIL CALLOUT | | | | X |

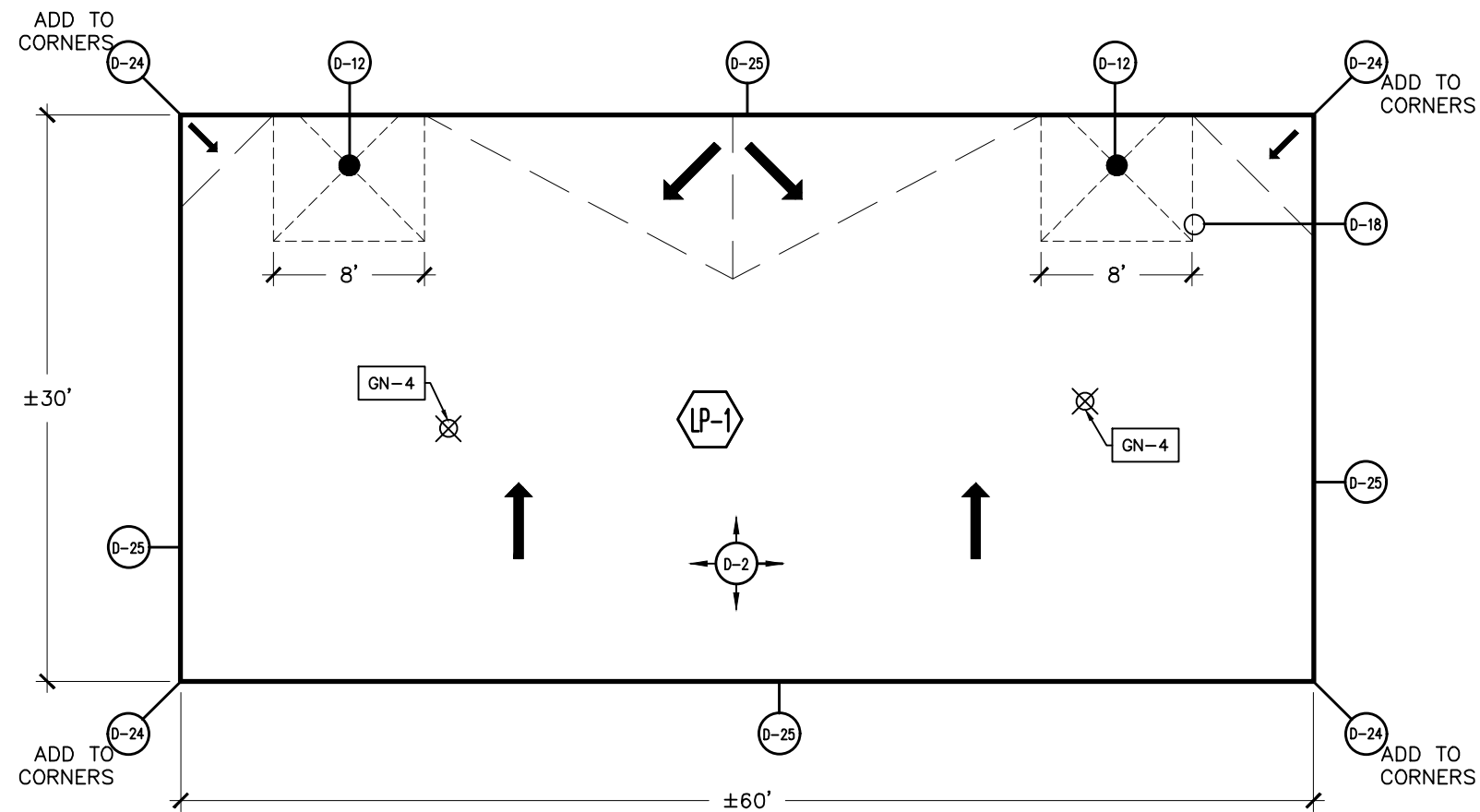
ROOF REPLACEMENT PLAN
 NORTH CAMPUS PUMPING STATION
 1800 BEAL AVENUE, ANN ARBOR MI 48105

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

REVISIONS / ADDENDA:
SCALE: N.T.S.
APPROVED BY: K.E.T.
DRAWN BY: K.L.E.
DATE: NOVEMBER, 2018
PROJECT NUMBER: T18074.RFG
DRAWING NUMBER: RP-4

GENERAL NOTES:

- GN-1 PERFORM ROOF REPLACEMENT IN CONFORMANCE WITH WRITTEN SPECIFICATIONS IN THE PROJECT MANUAL.
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- GN-3 CONTRACTOR IS REQUIRED TO VERIFY ALL CONDITIONS, DIMENSIONS, AND DETERMINE QUANTITIES FOR SPECIFIED WORK PRIOR TO SUBMITTING A BID
- GN-4 REMOVE OBSOLETE PENETRATIONS AS SPECIFIED.



StructureTec. KEY OF SYMBOLS

- | | | | | | |
|--|------------------|--|-----------------|--|--------------------------|
| | AREA DESIGNATION | | ROOF EDGE | | OBSOLETE PIPE PROJECTION |
| | ROOF DRAIN | | AREA TRANSITION | | DRAINAGE DIRECTION |
| | SOIL PIPE | | DETAIL CALLOUT | | DRAIN AND RAIN SUMP |
| | | | | | X |

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ROOF REPLACEMENT PLAN
 LIBERTY PUMPING STATION
 2675 W. LIBERTY STREET, ANN ARBOR MI 48103

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

REVISIONS / ADDENDA:

SCALE: N.T.S.

APPROVED BY: K.E.T.

DRAWN BY: K.L.E.

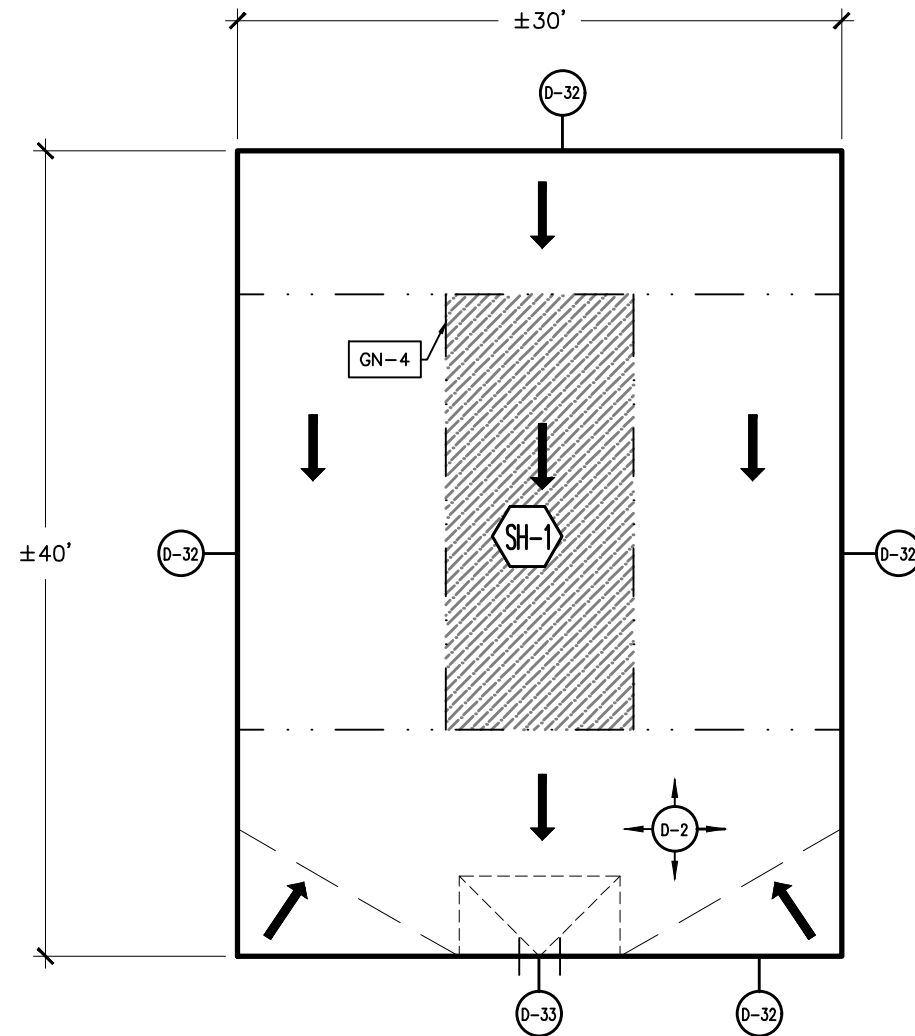
DATE: NOVEMBER, 2018

PROJECT NUMBER: T18074.RFG

DRAWING NUMBER: RP-5

GENERAL NOTES:

- GN-1 PERFORM ROOF REPLACEMENT IN CONFORMANCE WITH WRITTEN SPECIFICATIONS IN THE PROJECT MANUAL.
- GN-2 DRAWING AND DETAILS ARE PROVIDED FOR GENERAL ILLUSTRATION OF TYPICAL BUILDING CONDITIONS ONLY.
- GN-3 CONTRACTOR IS REQUIRED TO VERIFY ALL CONDITIONS, DIMENSIONS, AND DETERMINE QUANTITIES FOR SPECIFIED WORK PRIOR TO SUBMITTING A BID
- GN-4 REMOVE ELEVATED ROOF SECTION, ASSOCIATED EYE BOLTS AND METAL FLASHINGS.



StructureTec. KEY OF SYMBOLS

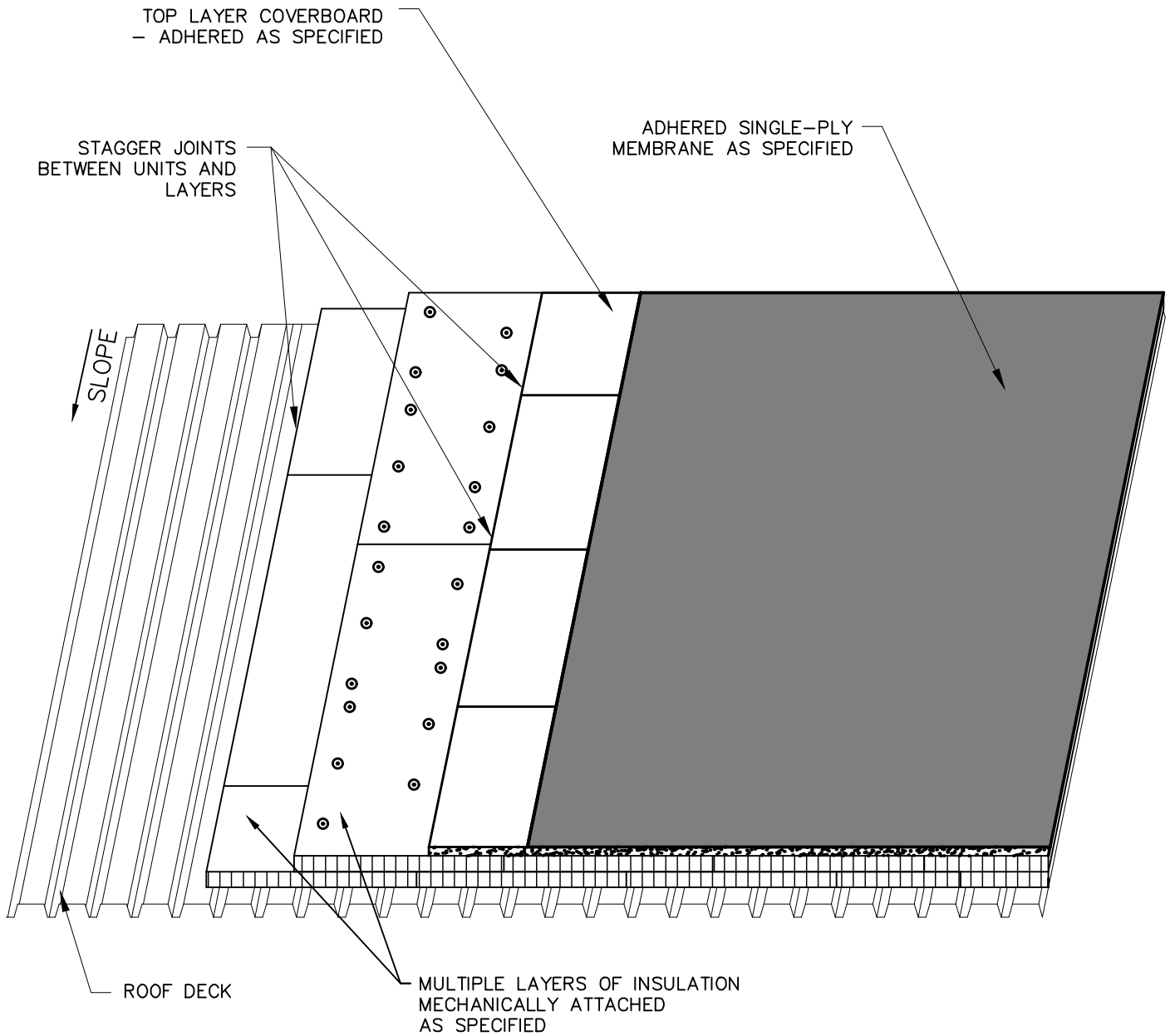
- | | | | | | |
|--|-----------------------|--|-----------------|--|---------------------|
| | AREA DESIGNATION | | ROOF EDGE | | DRAINAGE DIRECTION |
| | SLOPE TRANSITION | | AREA TRANSITION | | GUTTER |
| | SECTION TO BE REMOVED | | DETAIL CALLOUT | | DRAIN AND RAIN SUMP |

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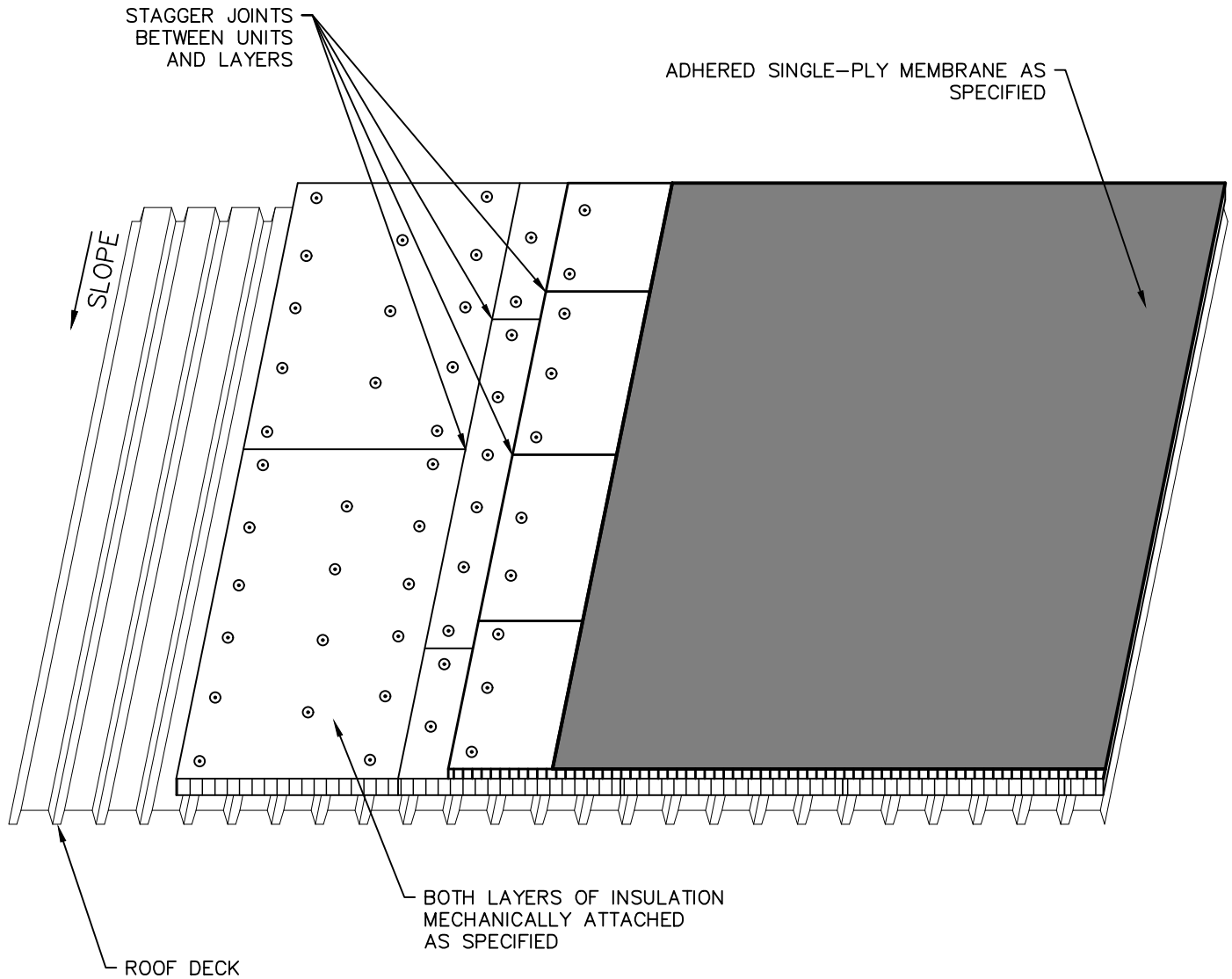
ROOF REPLACEMENT PLAN
 SUPERIOR HYDROELECTRIC BUILDING
 6000 FIRST STREET, SUPERIOR TOWNSHIP, MI 48198

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

REVISIONS / ADDENDA:
SCALE: N.T.S.
APPROVED BY: K.E.T.
DRAWN BY: K.L.E.
DATE: NOVEMBER, 2018
PROJECT NUMBER: T18074.RFG
DRAWING NUMBER: RP-6



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	<p>2018 ARCHITECTURAL / STRUCTURAL PROJECT CITY OF ANN ARBOR – WATER TREATMENT</p>	<p>APPROVED BY: K.E.T.</p>
		<p>DRAWN BY: K.L.E.</p>
		<p>DATE: NOVEMBER, 2018</p>
		<p>PROJECT #: T18074.RFG/RST3</p>
		<p>D-1</p>



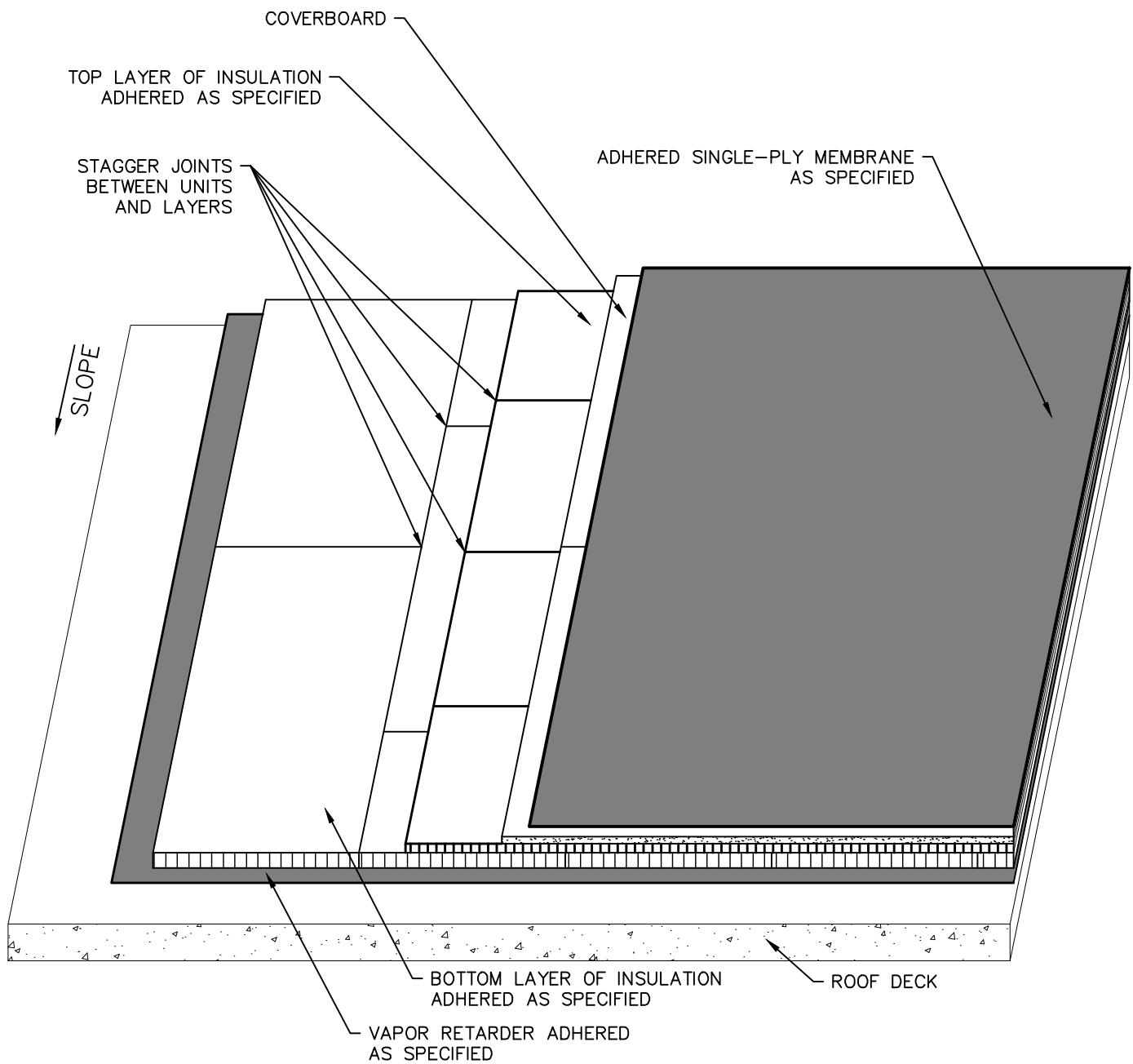
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CONSTRUCTION PROFILE – METAL DECK
 TWO COURSES MECH. ATTACHED INSULATION
 AND FULLY ADHERED SINGLE-PLY ROOFING

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

SCALE: N.T.S.
 APPROVED BY: K.E.T.
 DRAWN BY: K.L.E.
 DATE: NOVEMBER, 2018
 PROJECT #: T18074.RFG/RST3



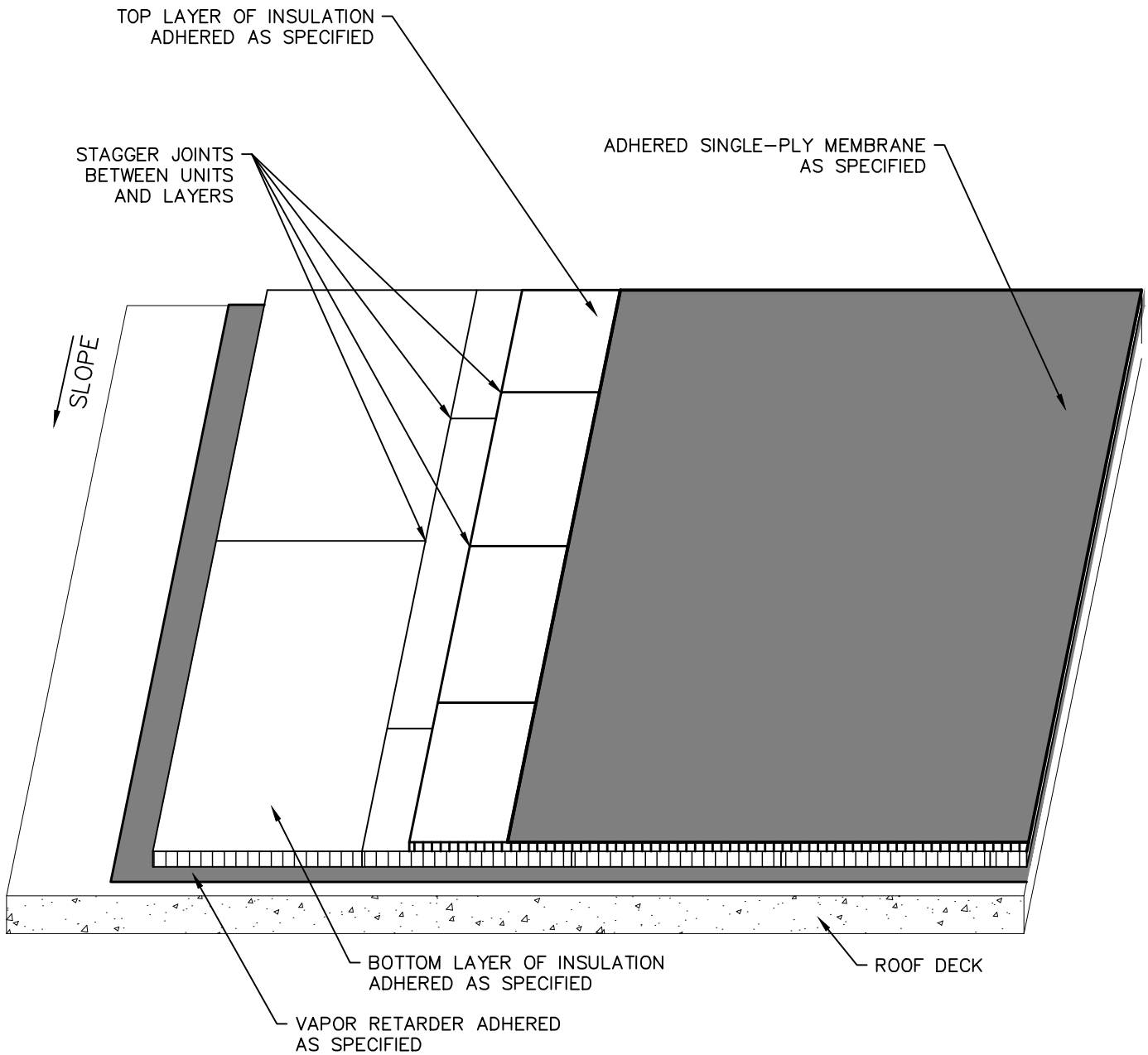
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CONSTRUCTION PROFILE – CONCRETE DECK
 TWO COURSES INSULATION AND FULLY
 ADHERED SINGLE-PLY ROOFING

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

SCALE: N.T.S.
 APPROVED BY: K.E.T.
 DRAWN BY: K.L.E.
 DATE: NOVEMBER, 2018
 PROJECT #: T18074.RFG/RST3



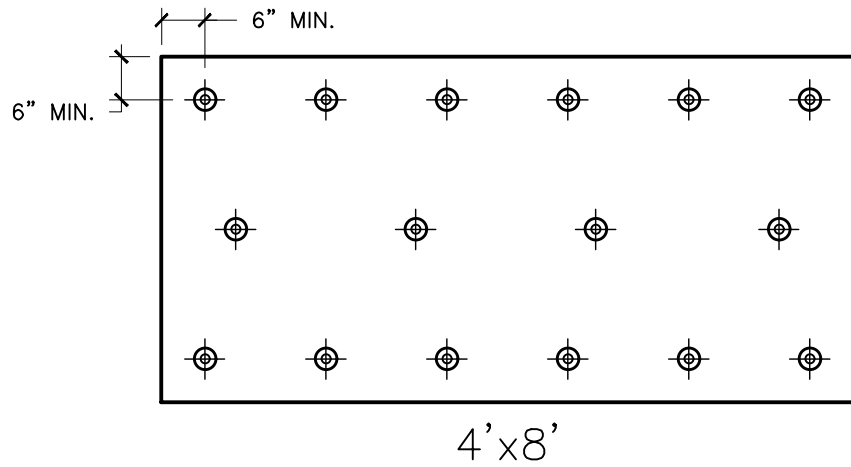
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CONSTRUCTION PROFILE – CONCRETE DECK
 TWO COURSES INSULATION AND FULLY
 ADHERED SINGLE-PLY ROOFING

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

SCALE: N.T.S.
 APPROVED BY: K.E.T.
 DRAWN BY: K.L.E.
 DATE: NOVEMBER, 2018
 PROJECT #: T18074.RFG/RST3



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SECUREMENT: INSULATION FASTENER PATTERN

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

SCALE: N.T.S.

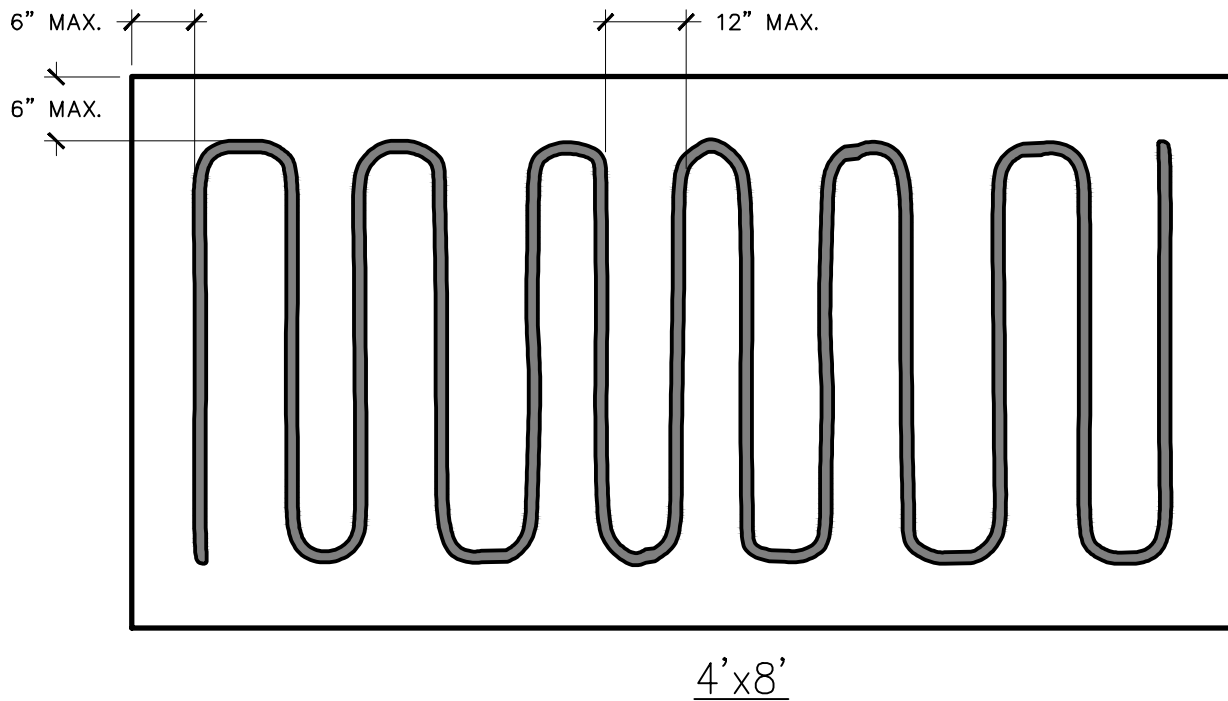
APPROVED BY: K.E.T.

DRAWN BY: K.L.E.

DATE: NOVEMBER, 2018

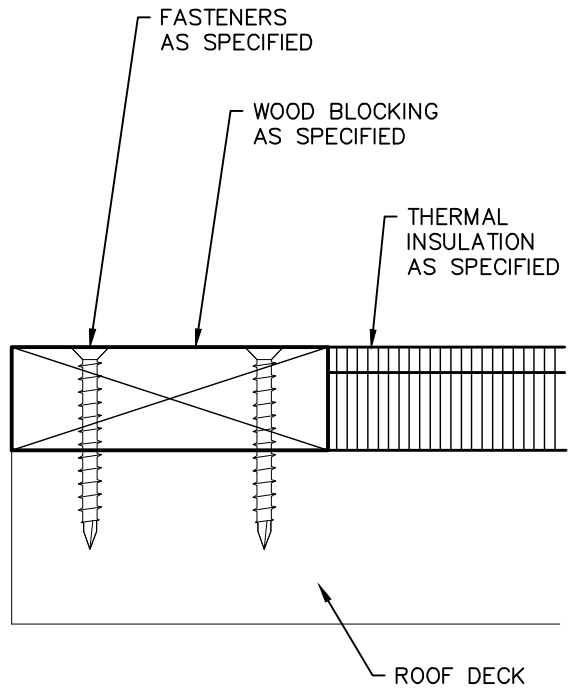
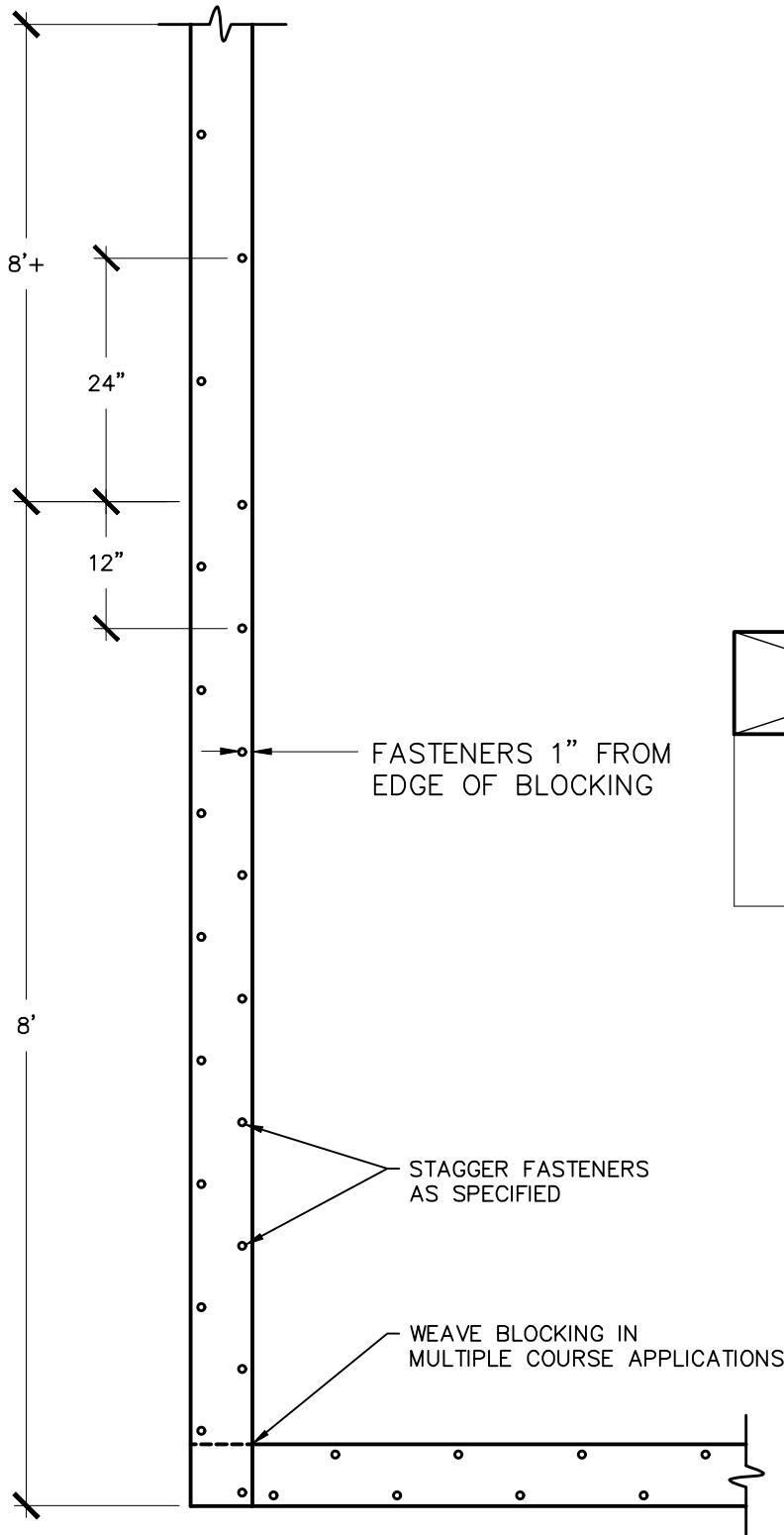
PROJECT #: T18074.RFG/RST3

D-5



NOTE: ADHESIVE PLACEMENT AT PERIMETER AND CORNERS OF ROOF AS SPECIFIED.

<p>StructureTec. Total Building Envelope Management SolutionsSM 4777 Campus Drive • Kalamazoo, MI 49008 1121 Lake Cook Road, Ste C • Deerfield, IL 60015 473 Airport Road, Ste 1 • Butler, PA 16002 34119 W. Twelve Mile Road, Ste 270 • Farmington Hills, MI 48331</p>	FIELD OF ROOF INSULATION ADHESIVE PLACEMENT	SCALE: N.T.S.
	<p>2018 ARCHITECTURAL / STRUCTURAL PROJECT CITY OF ANN ARBOR – WATER TREATMENT</p>	APPROVED BY: K.E.T.
		DRAWN BY: K.L.E.
		DATE: NOVEMBER, 2018
		PROJECT #: T18074.RFG/RST3
		D-6



NOTE: WOOD COMPONENTS ARE SHOWN GENERICALLY. PROVIDE WOOD BLOCKING AS SPECIFIED.

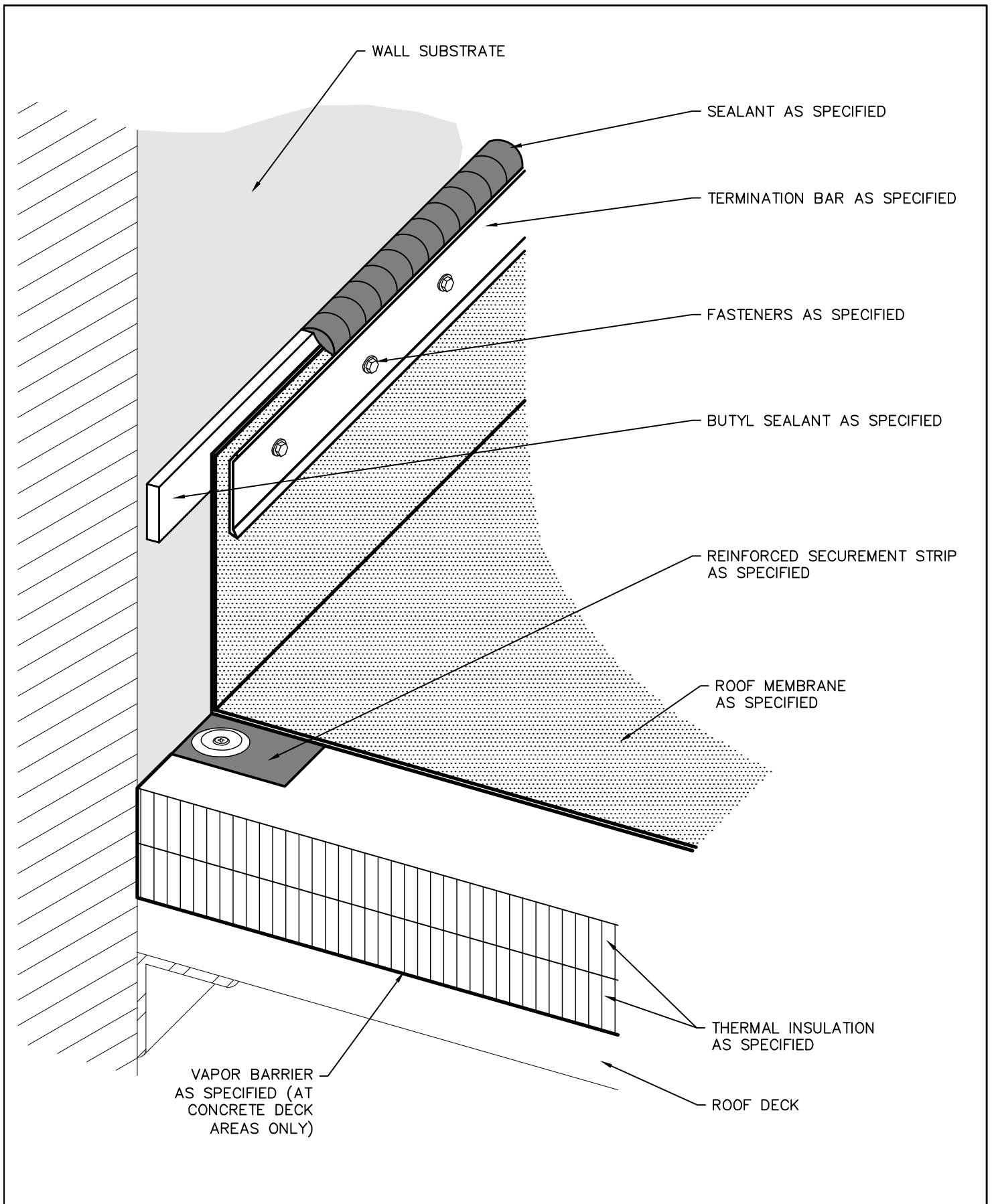
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WOOD BLOCK FASTENING PATTERN

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

SCALE: N.T.S.
APPROVED BY: K.E.T.
DRAWN BY: K.L.E.
DATE: NOVEMBER, 2018
PROJECT #: T18074.RFG/RST3



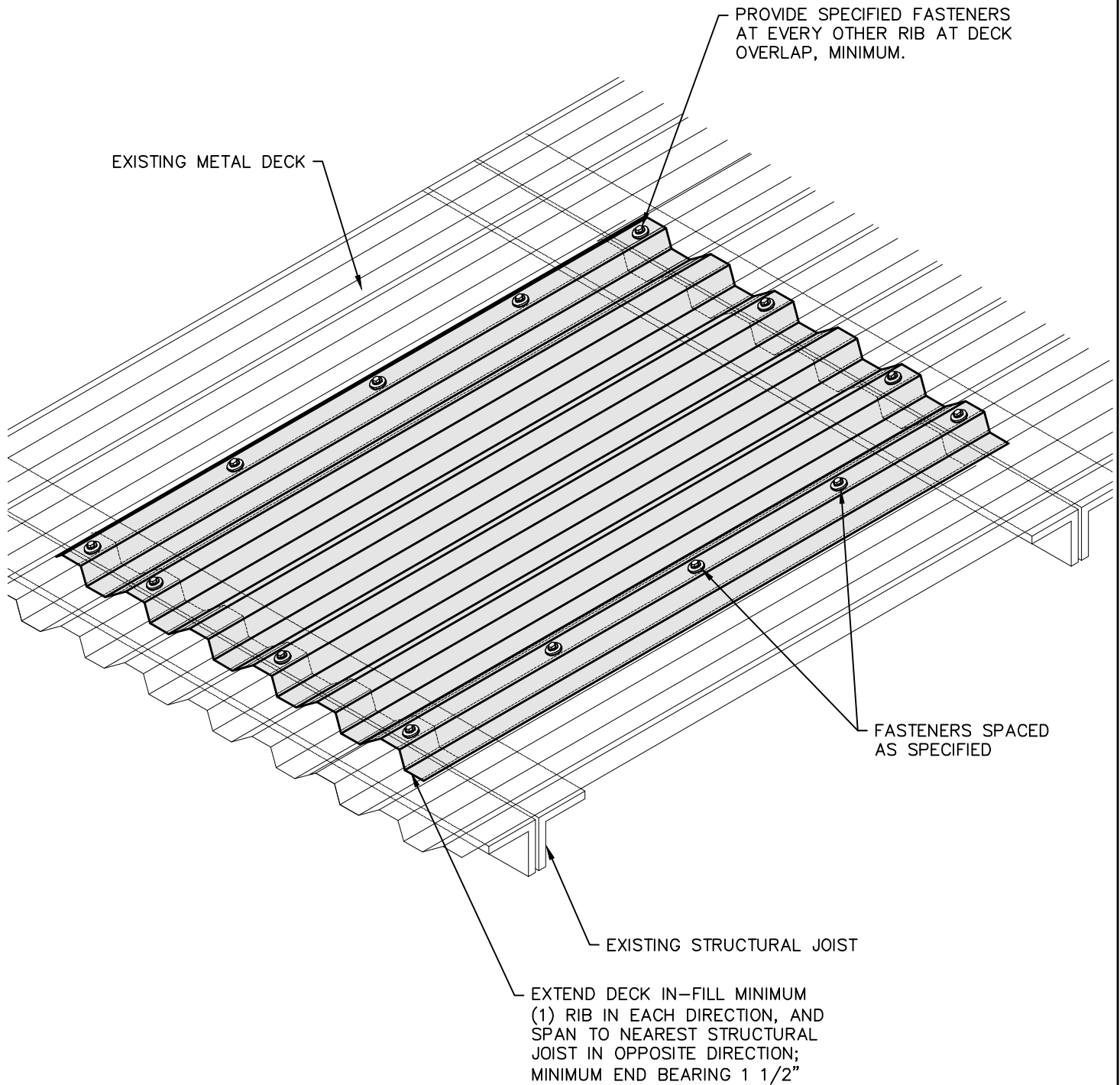
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TERMINATION BAR

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

SCALE: N.T.S.
APPROVED BY: K.E.T.
DRAWN BY: K.L.E.
DATE: NOVEMBER, 2018
PROJECT #: T18074.RFG/RST3
D-8



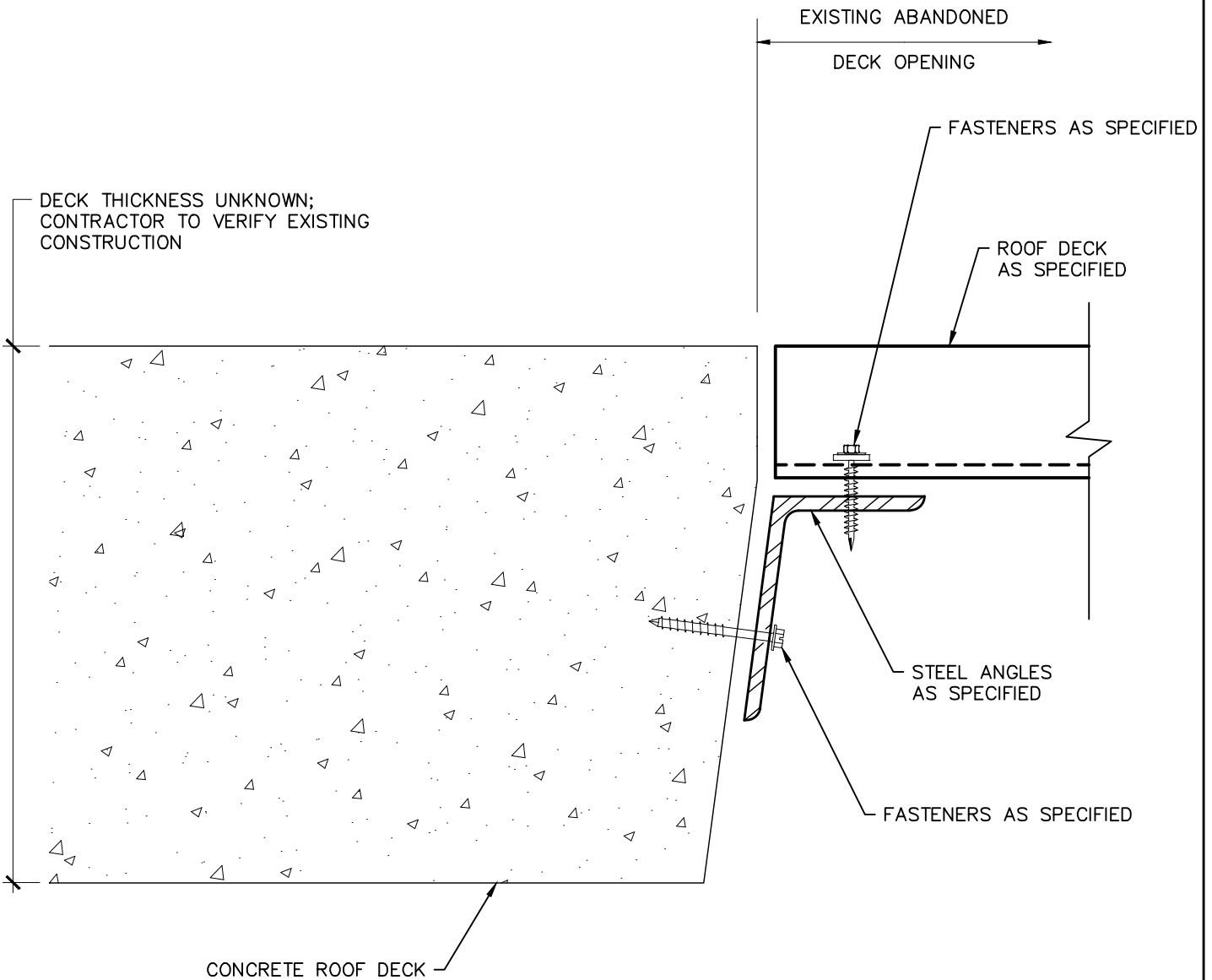
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METAL DECK IN-FILL

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

SCALE: N.T.S.
APPROVED BY: K.E.T.
DRAWN BY: K.L.E.
DATE: NOVEMBER, 2018
PROJECT #: T18074.RFG/RST3



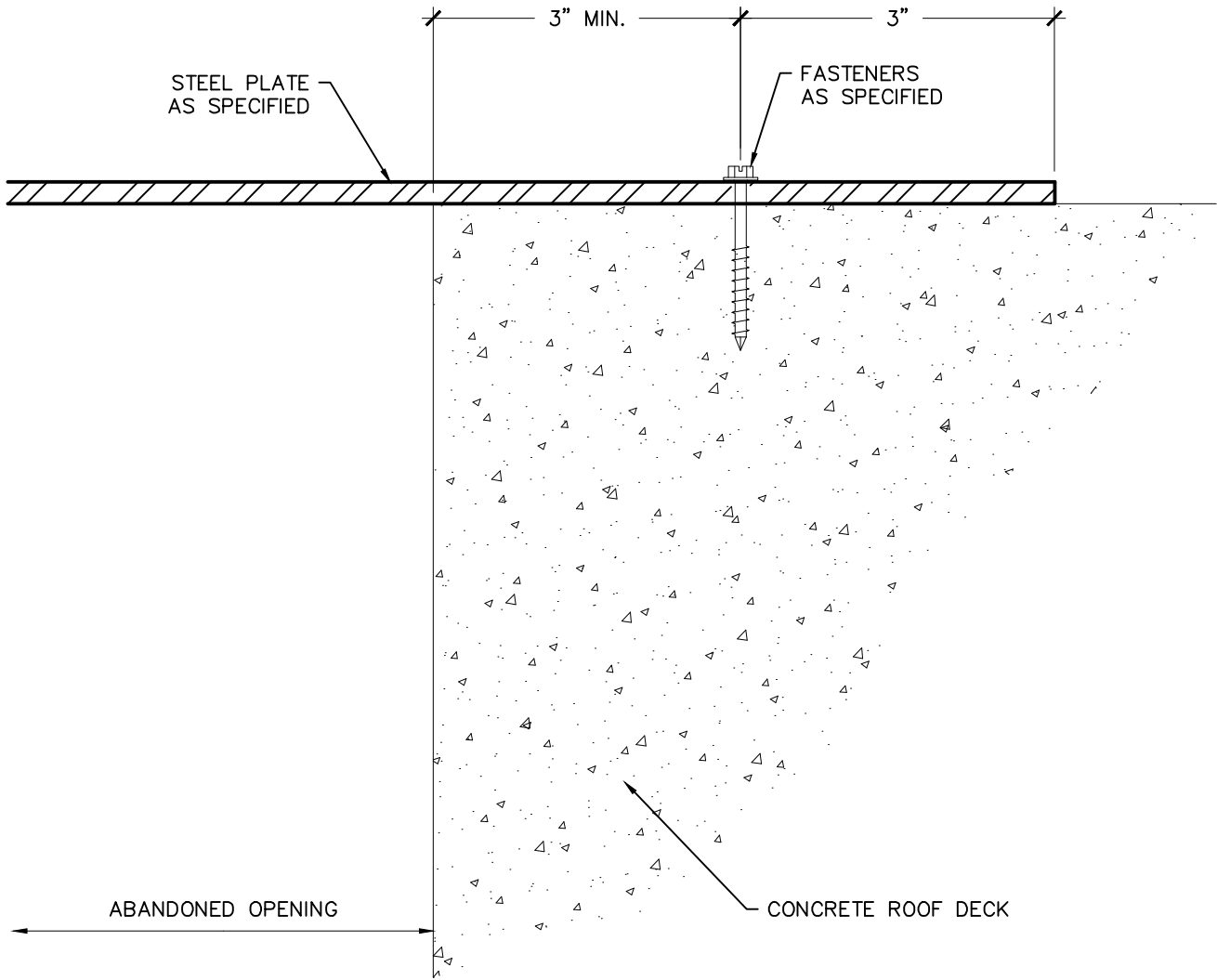
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CONCRETE DECK OPENING INFILL

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

SCALE: N.T.S.
APPROVED BY: K.E.T.
DRAWN BY: K.L.E.
DATE: NOVEMBER, 2018
PROJECT #: T18074.RFG/RST3



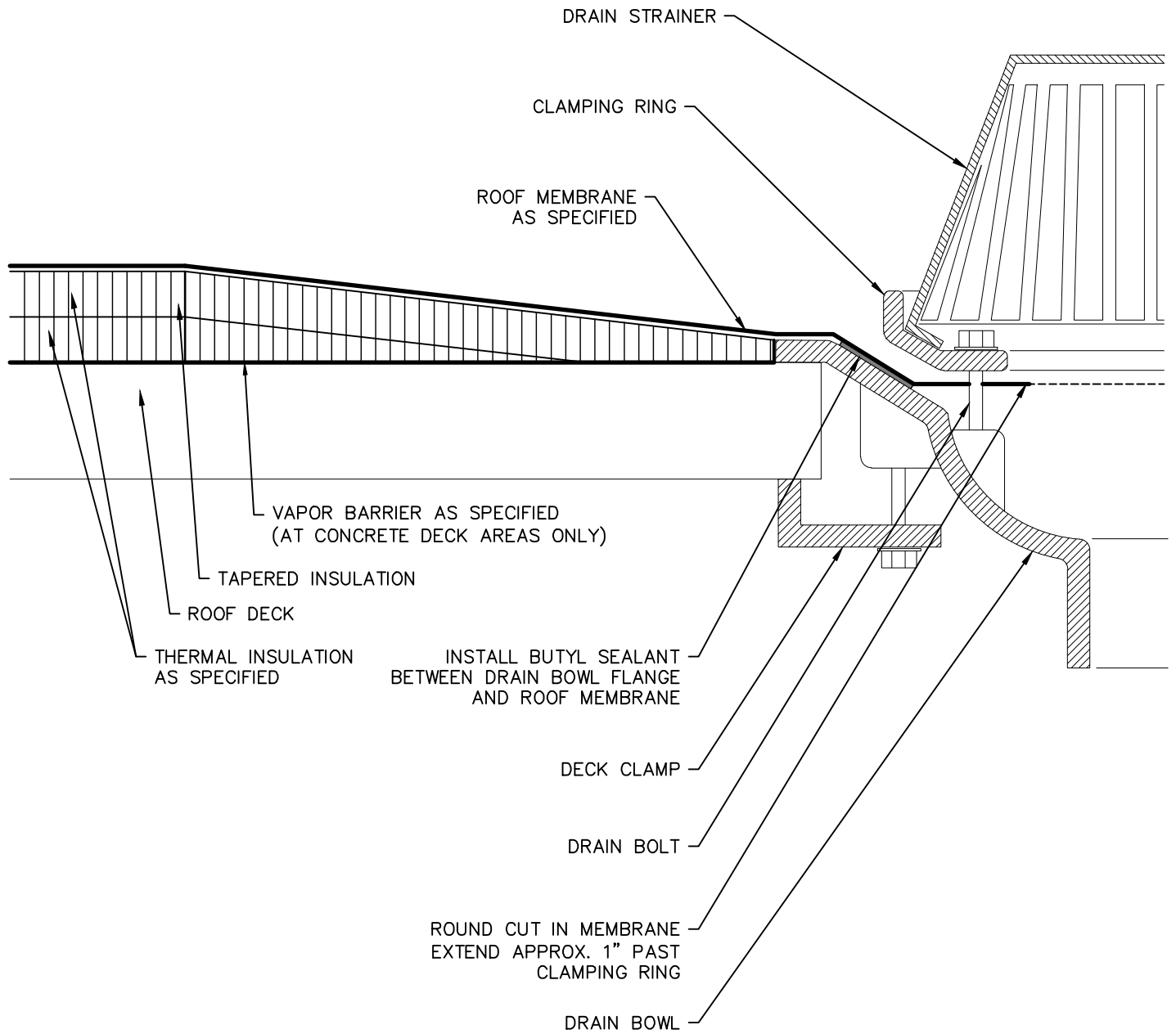
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CONCRETE DECK OPENING COVER PLATE

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

SCALE: N.T.S.
APPROVED BY: K.E.T.
DRAWN BY: K.L.E.
DATE: NOVEMBER, 2018
PROJECT #: T18074.RFG/RST3



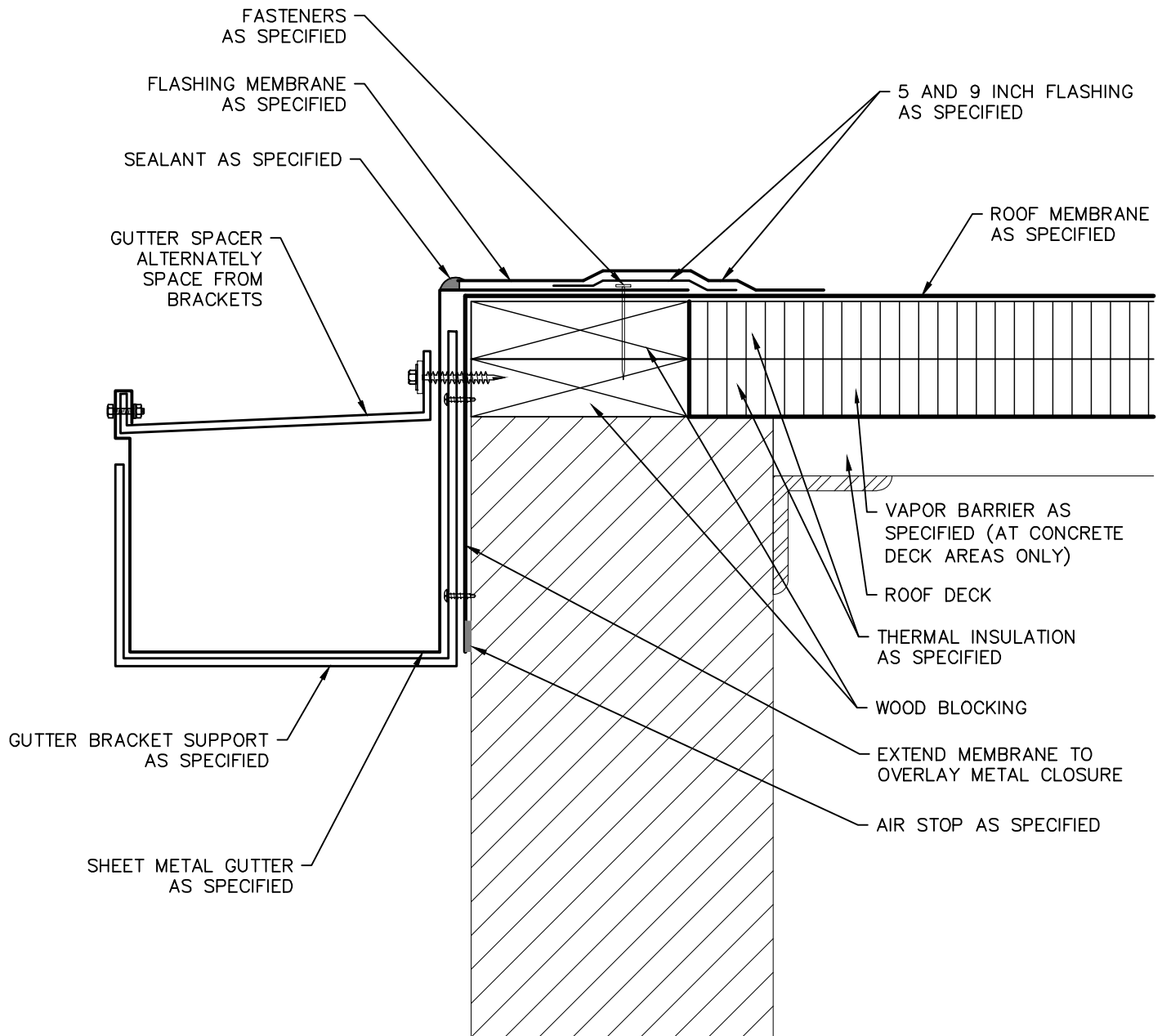
StructureTec.

Total Building Envelope Management SolutionsSM
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ROOF DRAIN

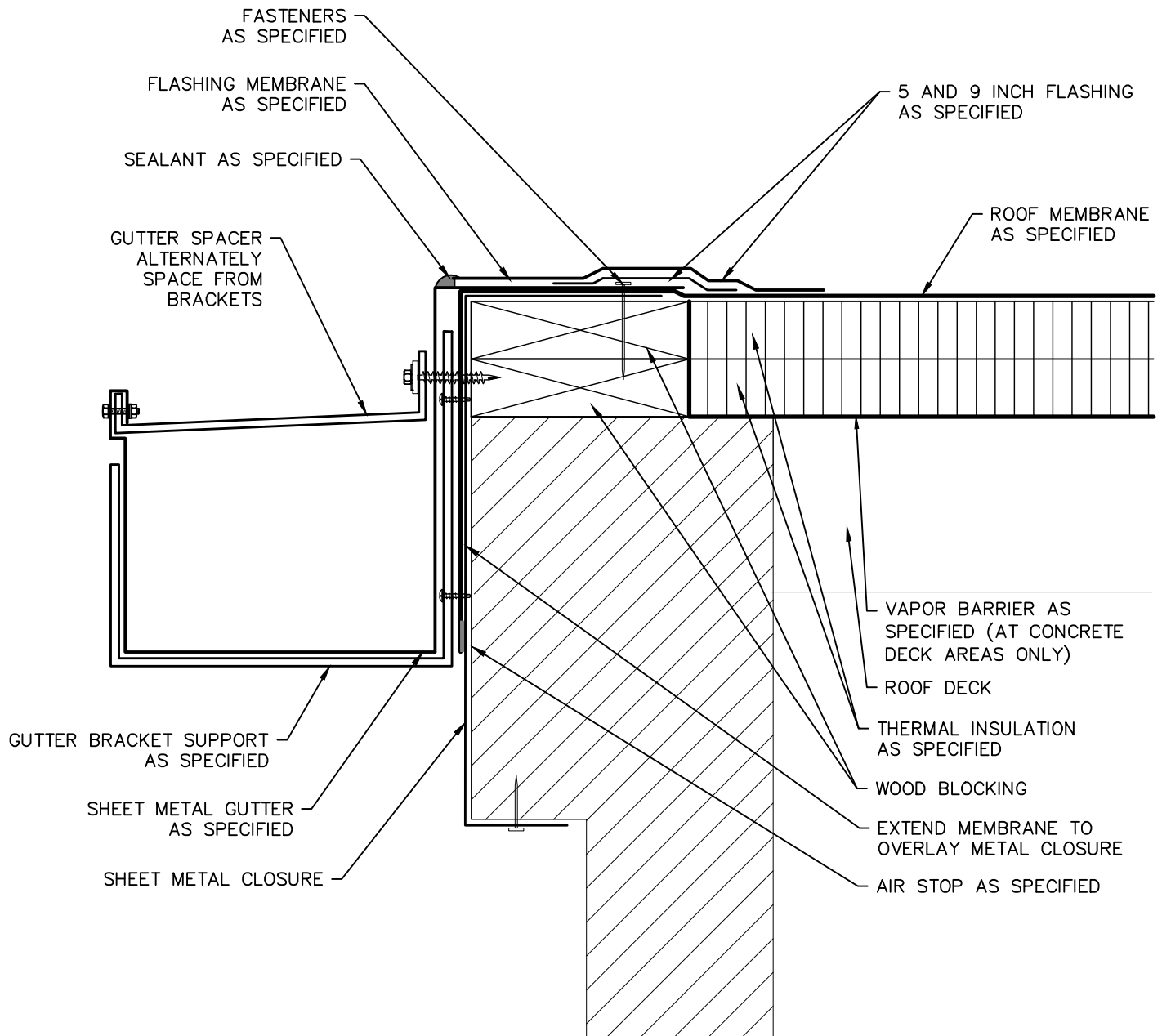
2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

SCALE: N.T.S.
APPROVED BY: K.E.T.
DRAWN BY: K.L.E.
DATE: NOVEMBER, 2018
PROJECT #: T18074.RFG/RST3



NOTE:
 WOOD COMPONENTS ARE SHOWN GENERICALLY, PROVIDE WOOD BLOCKING AS SPECIFIED.
 REFER TO SECTION 7620 FOR GUTTER DIMENSIONS.

<p>StructureTec. Total Building Envelope Management SolutionsSM 4777 Campus Drive • Kalamazoo, MI 49008 1121 Lake Cook Road, Ste C • Deerfield, IL 60015 473 Airport Road, Ste 1 • Butler, PA 16002 34119 W. Twelve Mile Road, Ste 270 • Farmington Hills, MI 48331</p>	<p>HANGING GUTTER</p>	<p>SCALE: N.T.S.</p>
		<p>APPROVED BY: K.E.T.</p>
		<p>DRAWN BY: K.L.E.</p>
		<p>DATE: NOVEMBER, 2018</p>
		<p>PROJECT #: T18074.RFG/RST3</p>
	<p>2018 ARCHITECTURAL / STRUCTURAL PROJECT CITY OF ANN ARBOR – WATER TREATMENT</p>	<p>D-13</p>



NOTE:
WOOD COMPONENTS ARE SHOWN GENERICALLY, PROVIDE WOOD BLOCKING AS SPECIFIED.
REFER TO SECTION 7620 FOR GUTTER DIMENSIONS.

StructureTec.

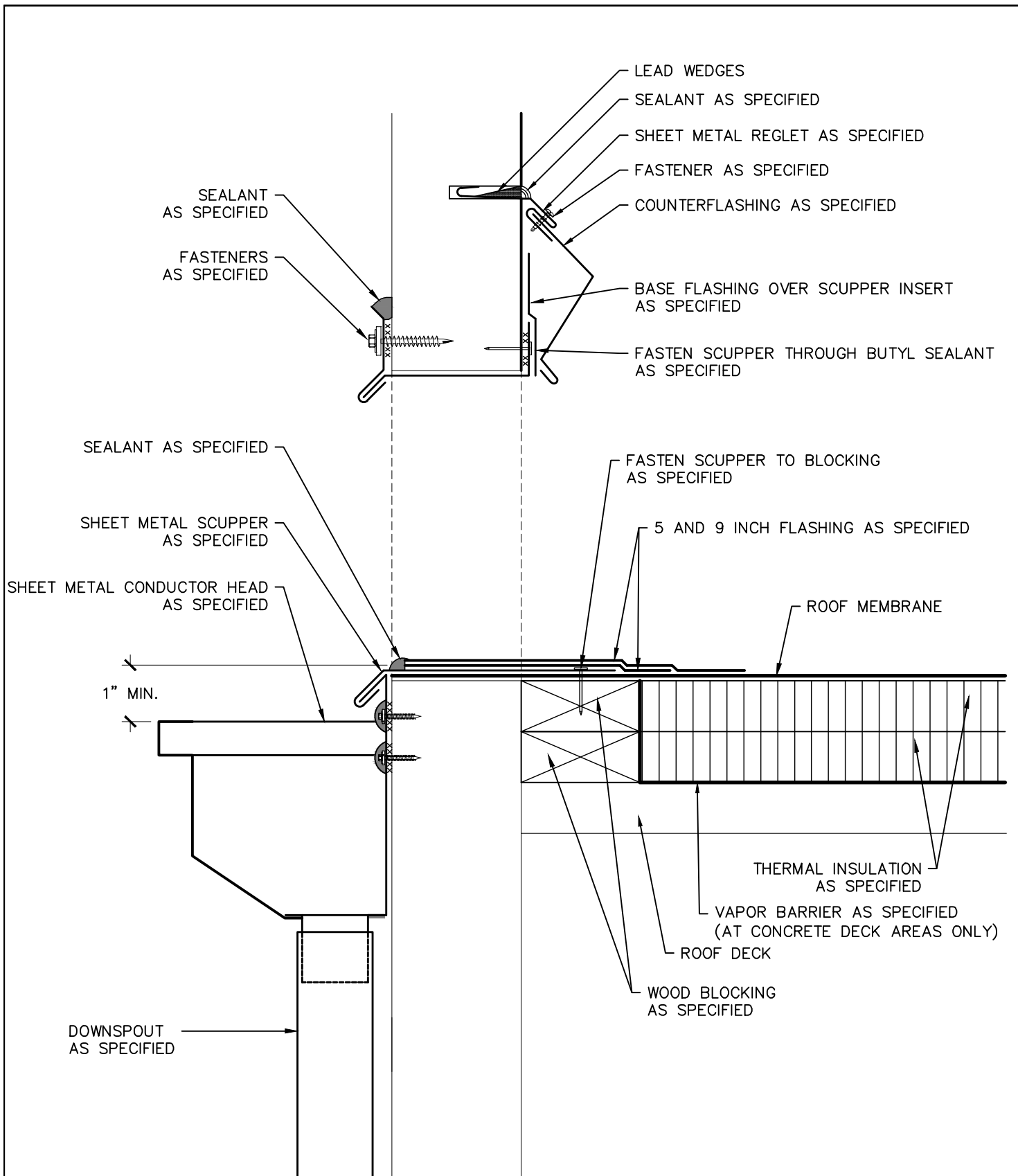
Total Building Envelope Management SolutionsSM
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HANGING GUTTER AT FILTER GALLERY

2018 ARCHITECTURAL / STRUCTURAL PROJECT
CITY OF ANN ARBOR – WATER TREATMENT

SCALE: N.T.S.
APPROVED BY: K.E.T.
DRAWN BY: K.L.E.
DATE: NOVEMBER, 2018
PROJECT #: T18074.RFG/RST3

D-14



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THROUGH-WALL SCUPPER

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

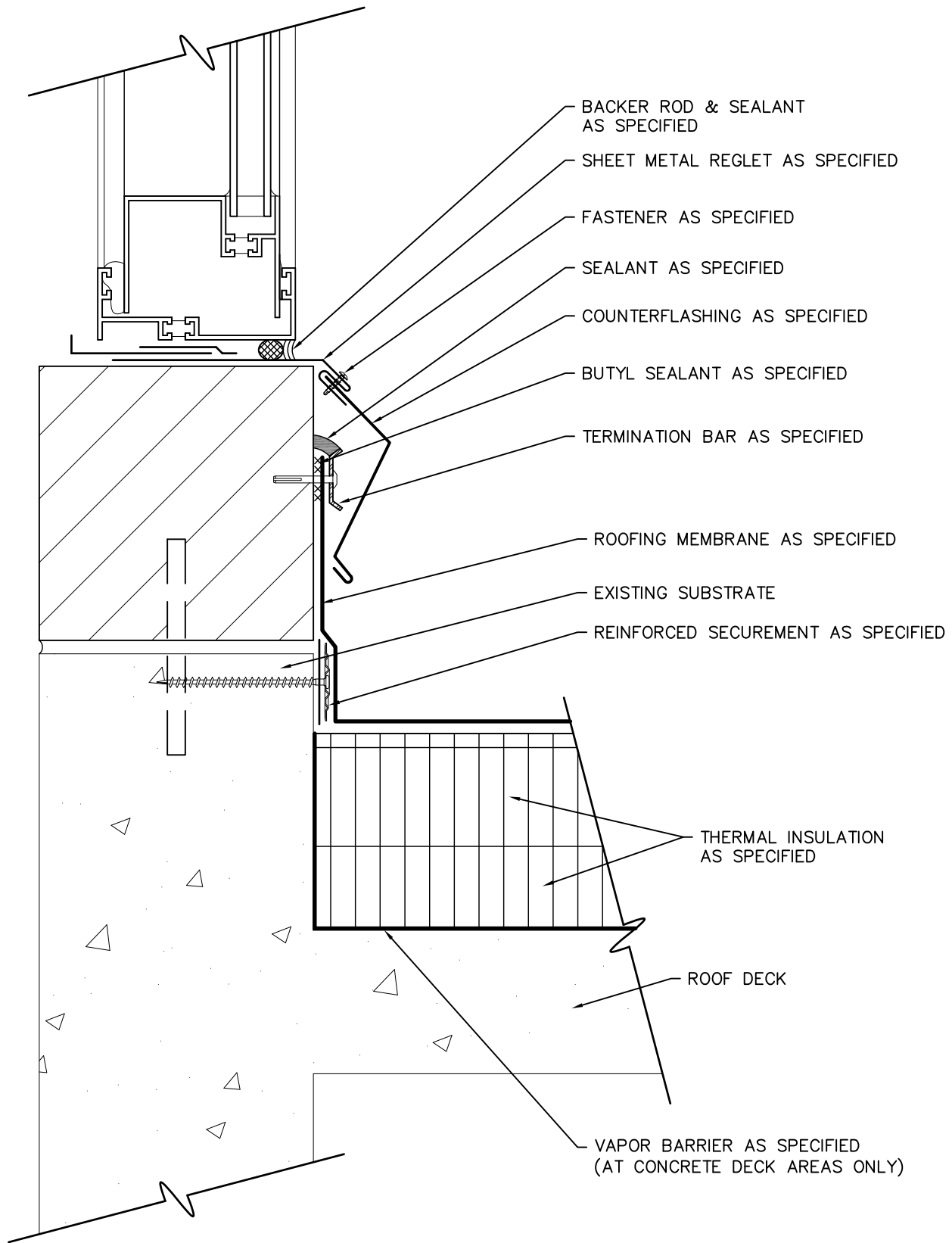
SCALE: N.T.S.

APPROVED BY: K.E.T.

DRAWN BY: K.L.E.

DATE: NOVEMBER, 2018

PROJECT #: T18074.RFG/RST3



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CLERESTORY WINDOW FLASHING

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

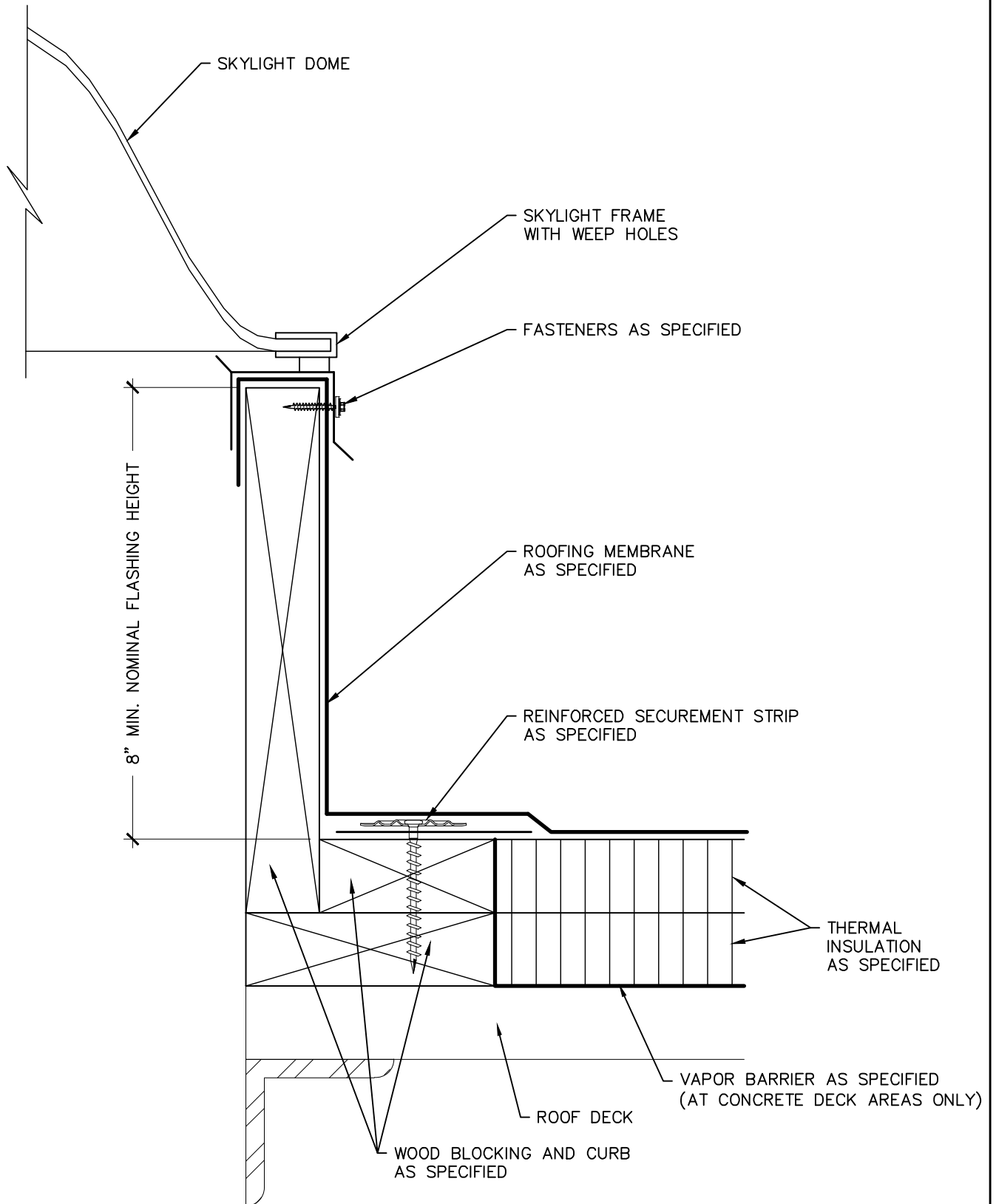
SCALE: N.T.S.

APPROVED BY: K.E.T.

DRAWN BY: K.L.E.

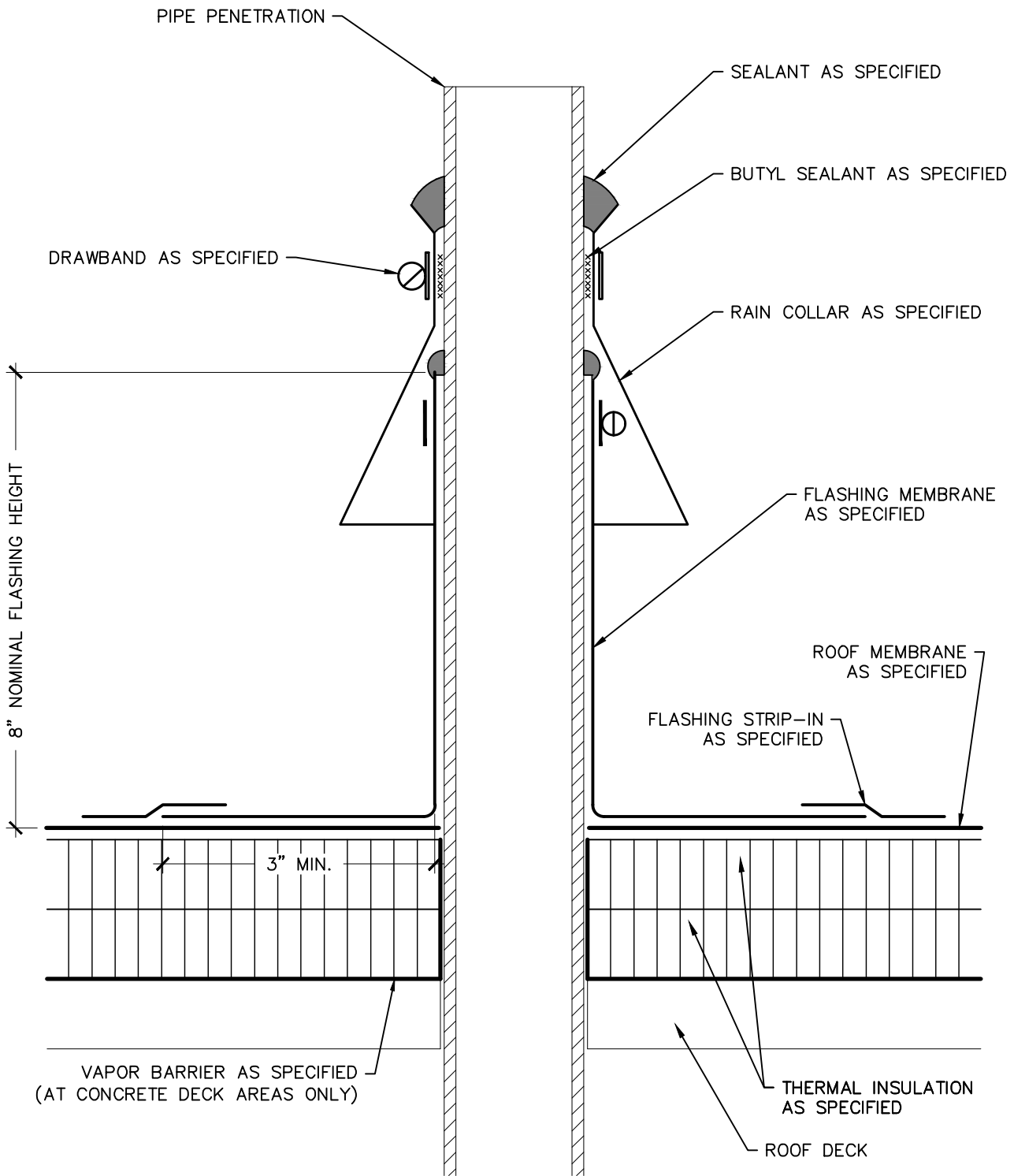
DATE: NOVEMBER, 2018

PROJECT #: T18074.RFG/RST3



NOTE: WOOD COMPONENTS ARE SHOWN GENERICALLY, PROVIDE WOOD BLOCKING AS SPECIFIED.

StructureTec. Total Building Envelope Management Solutions SM 4777 Campus Drive • Kalamazoo, MI 49008 1121 Lake Cook Road, Ste C • Deerfield, IL 60015 473 Airport Road, Ste 1 • Butler, PA 16002 34119 W. Twelve Mile Road, Ste 270 • Farmington Hills, MI 48331	SKYLIGHT FLASHING	SCALE: N.T.S.
	2018 ARCHITECTURAL / STRUCTURAL PROJECT CITY OF ANN ARBOR – WATER TREATMENT	APPROVED BY: K.E.T.
DRAWN BY: K.L.E.		
DATE: NOVEMBER, 2018		
PROJECT #: T18074.RFG/RST3		
		D-17



8" NOMINAL FLASHING HEIGHT

3" MIN.

VAPOR BARRIER AS SPECIFIED
(AT CONCRETE DECK AREAS ONLY)

THERMAL INSULATION
AS SPECIFIED

ROOF DECK

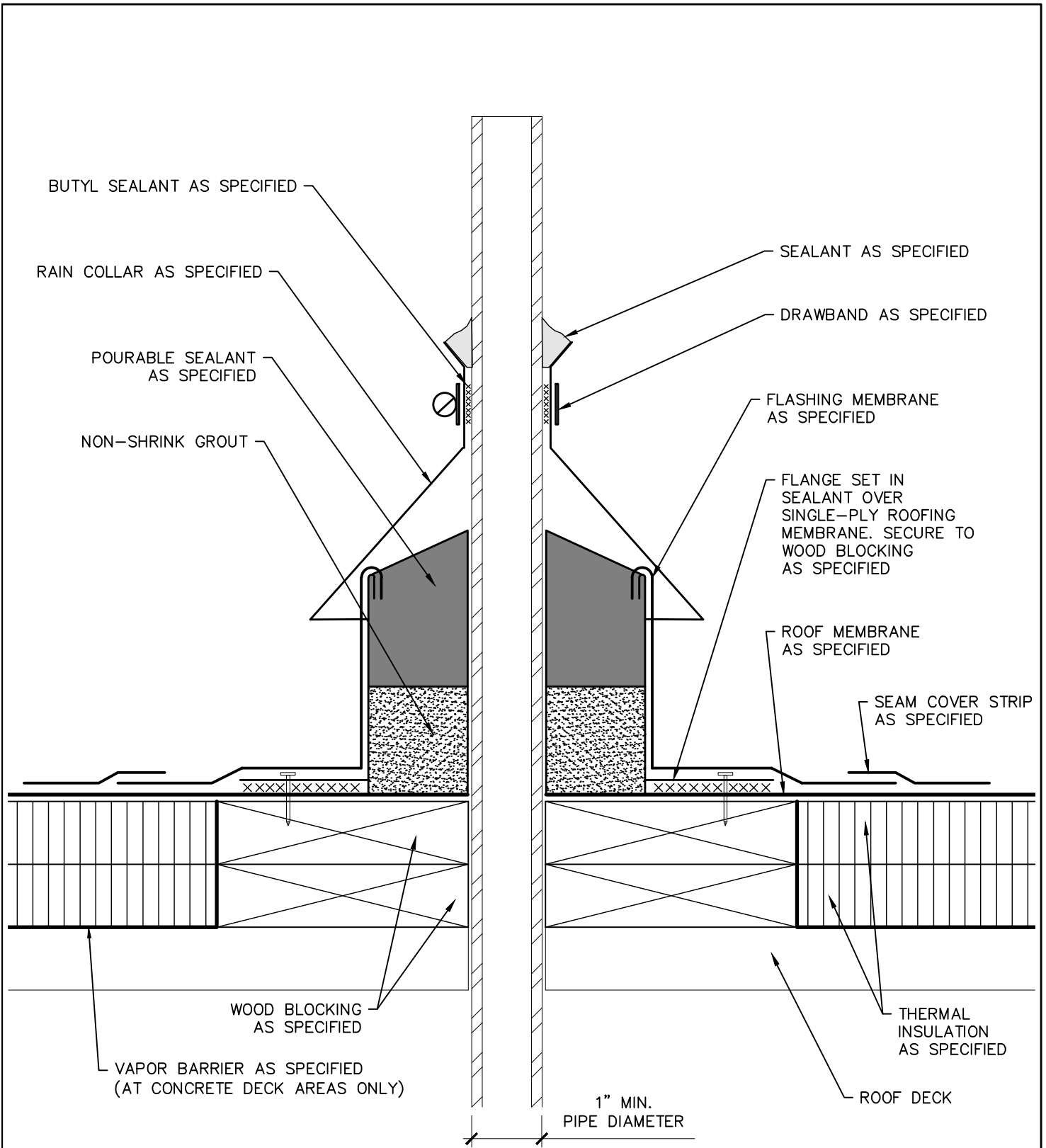
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FIELD-FABRICATED
SINGLE-PLY
PENETRATION FLASHING

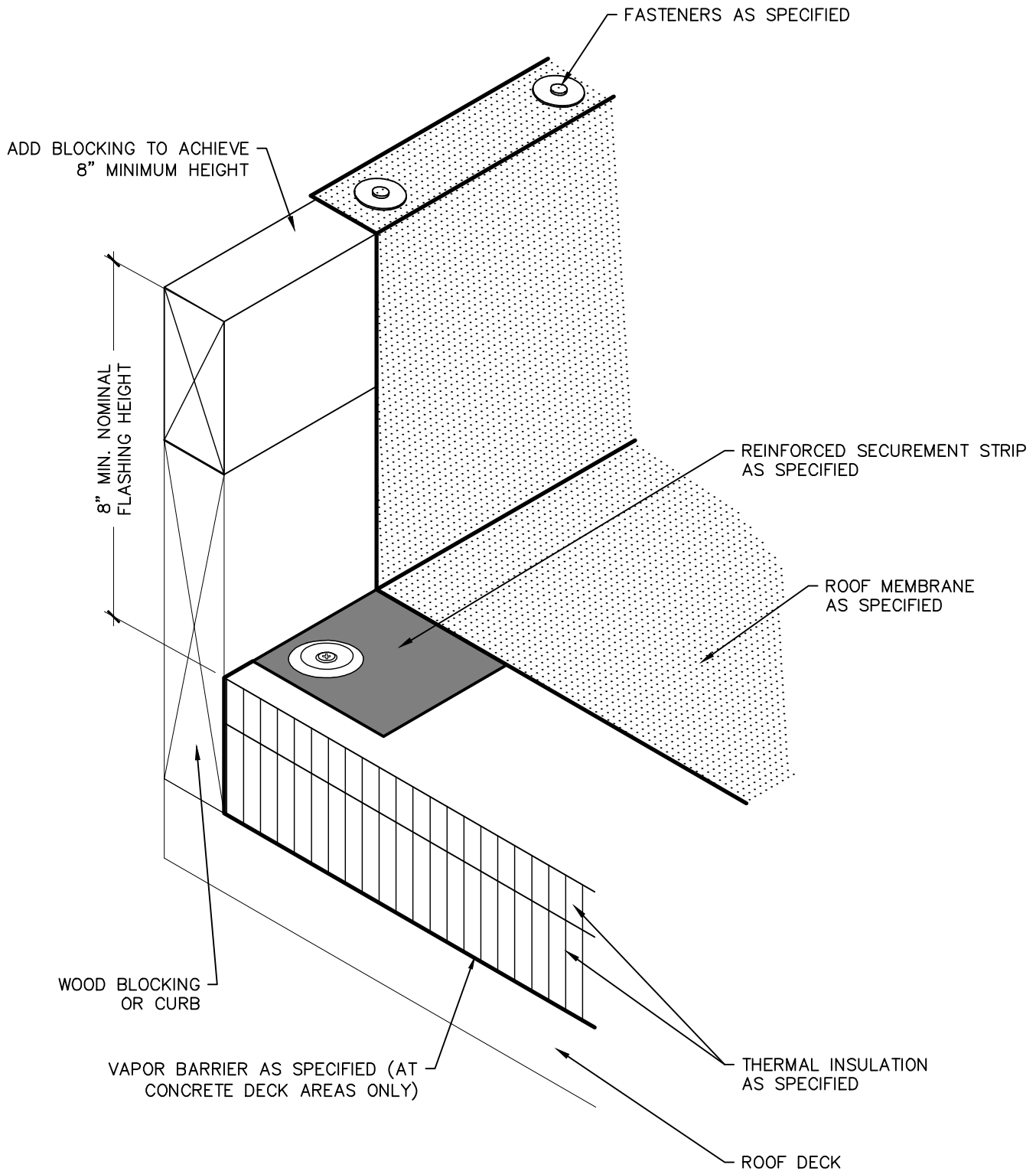
2018 ARCHITECTURAL / STRUCTURAL PROJECT
CITY OF ANN ARBOR – WATER TREATMENT

SCALE: N.T.S.
 APPROVED BY: K.E.T.
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 DATE: NOVEMBER, 2018
 PROJECT #: T18074.RFG/RST3



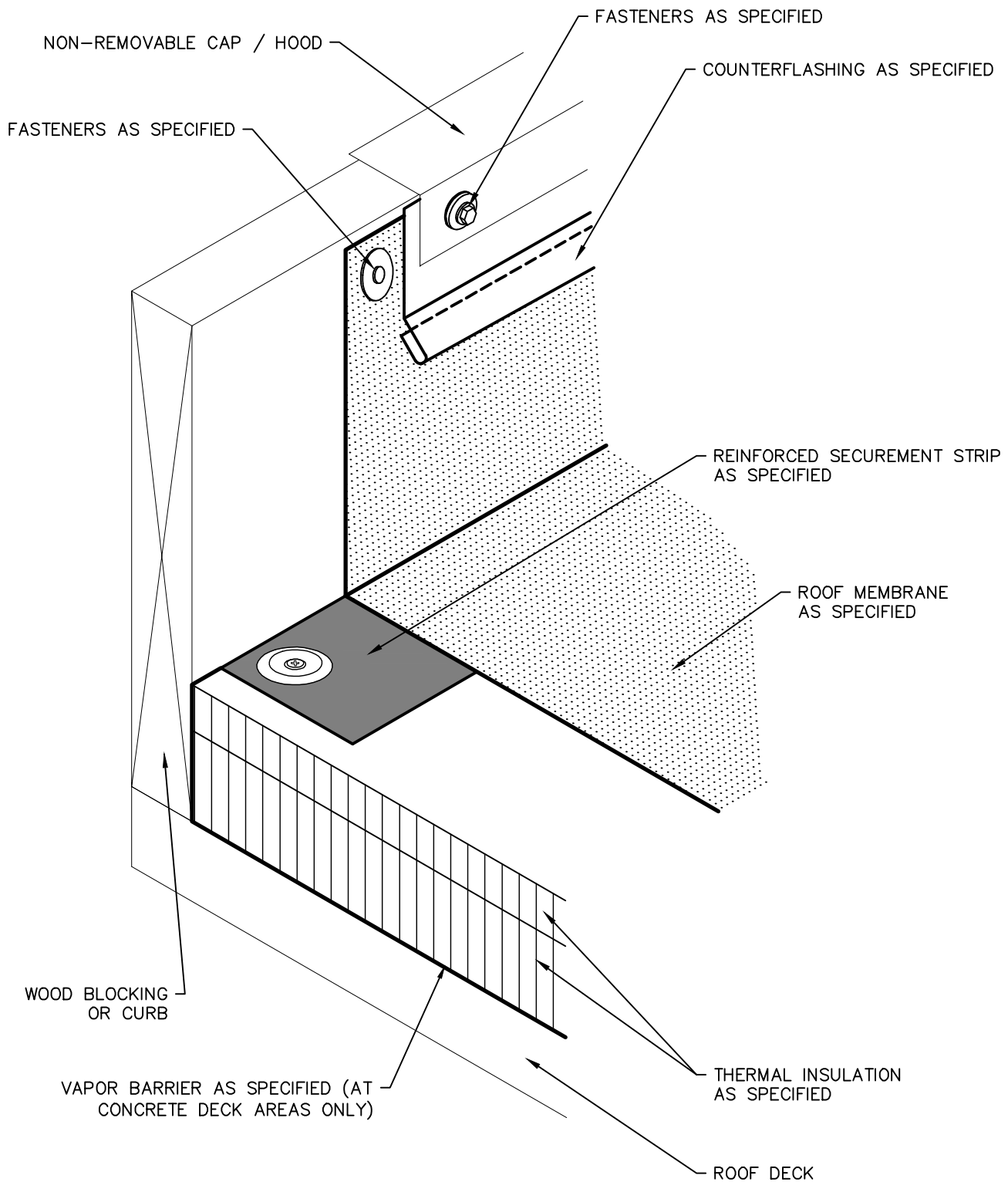
NOTE: WOOD COMPONENTS ARE SHOWN GENERICALLY, PROVIDE WOOD BLOCKING AS SPECIFIED.

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	<p>2018 ARCHITECTURAL / STRUCTURAL PROJECT</p> <p>CITY OF ANN ARBOR – WATER TREATMENT</p>	<p>APPROVED BY: K.E.T.</p> <p>DRAWN BY: K.L.E.</p> <p>DATE: NOVEMBER, 2018</p> <p>PROJECT #: T18074.RFG/RST3</p>
		<p>D-19</p>



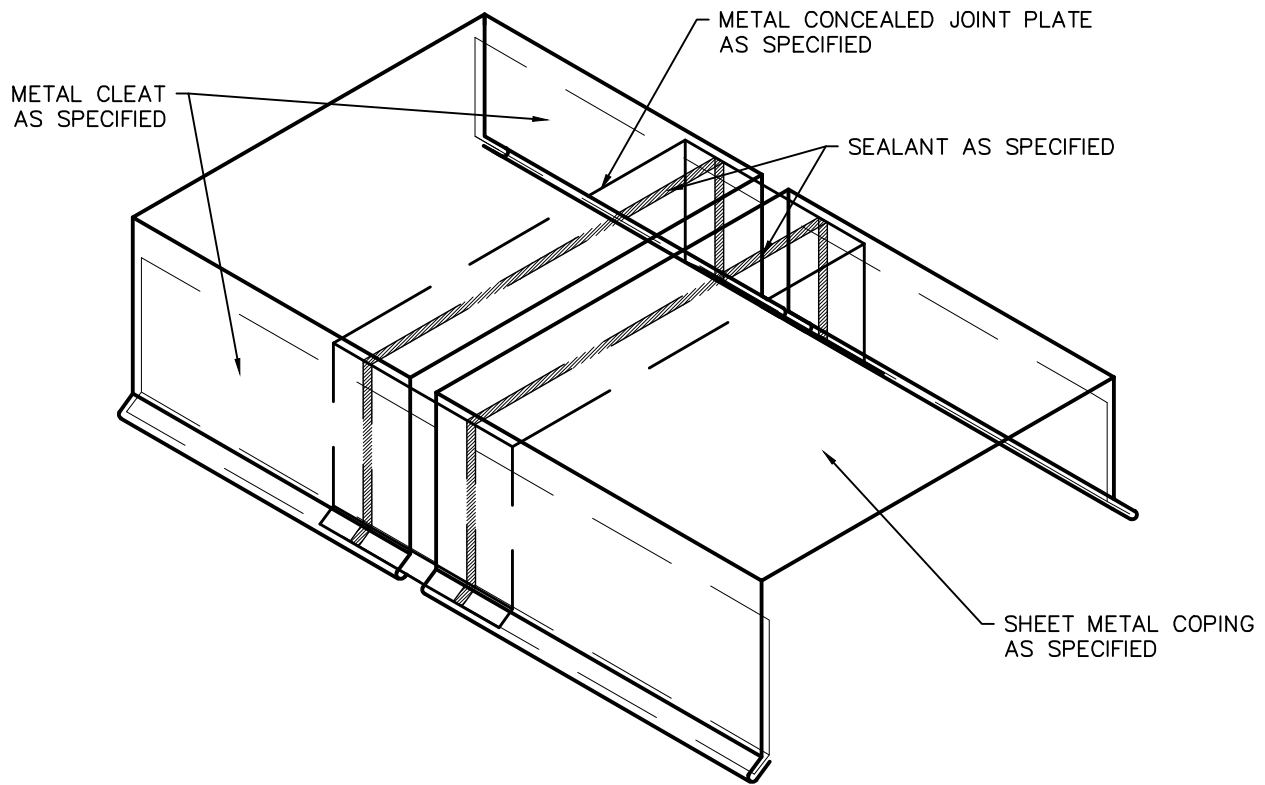
NOTE: WOOD COMPONENTS ARE SHOWN GENERICALLY, PROVIDE WOOD BLOCKING AS SPECIFIED.

<p>StructureTec. Total Building Envelope Management SolutionsSM 4777 Campus Drive • Kalamazoo, MI 49008 1121 Lake Cook Road, Ste C • Deerfield, IL 60015 473 Airport Road, Ste 1 • Butler, PA 16002 34119 W. Twelve Mile Road, Ste 270 • Farmington Hills, MI 48331</p>	CURB WITH REMOVABLE CAP	SCALE: N.T.S.
		APPROVED BY: K.E.T.
		DRAWN BY: K.L.E.
		DATE: NOVEMBER, 2018
		PROJECT #: T18074.RFG/RST3
	2018 ARCHITECTURAL / STRUCTURAL PROJECT CITY OF ANN ARBOR – WATER TREATMENT	D-20

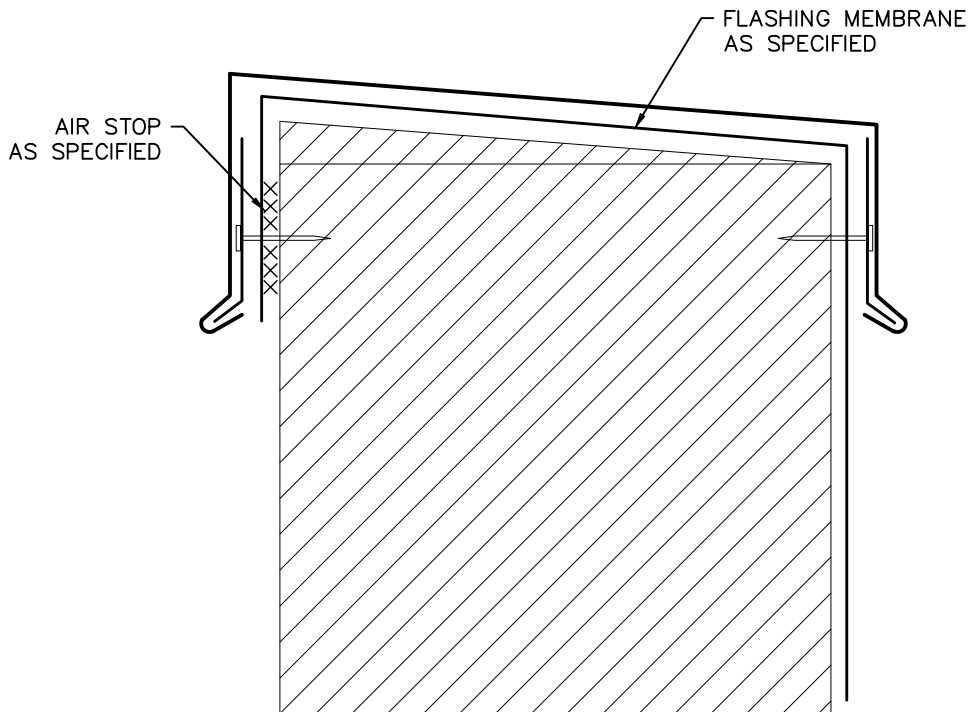


NOTE: WOOD COMPONENTS ARE SHOWN GENERICALLY, PROVIDE WOOD BLOCKING AS SPECIFIED.

<p>StructureTec. Total Building Envelope Management SolutionsSM 4777 Campus Drive • Kalamazoo, MI 49008 1121 Lake Cook Road, Ste C • Deerfield, IL 60015 473 Airport Road, Ste 1 • Butler, PA 16002 34119 W. Twelve Mile Road, Ste 270 • Farmington Hills, MI 48331</p>	<p>CURB WITH NON-REMOVABLE CAP</p>	<p>SCALE: N.T.S.</p>
	<p>2018 ARCHITECTURAL / STRUCTURAL PROJECT CITY OF ANN ARBOR – WATER TREATMENT</p>	<p>APPROVED BY: K.E.T.</p>
	<p>DRAWN BY: K.L.E.</p>	
	<p>DATE: NOVEMBER, 2018</p>	
	<p>PROJECT #: T18074.RFG/RST3</p>	
		<p>D-21</p>



CONCEALED JOINT PLATE



CROSS SECTION - METAL COPING

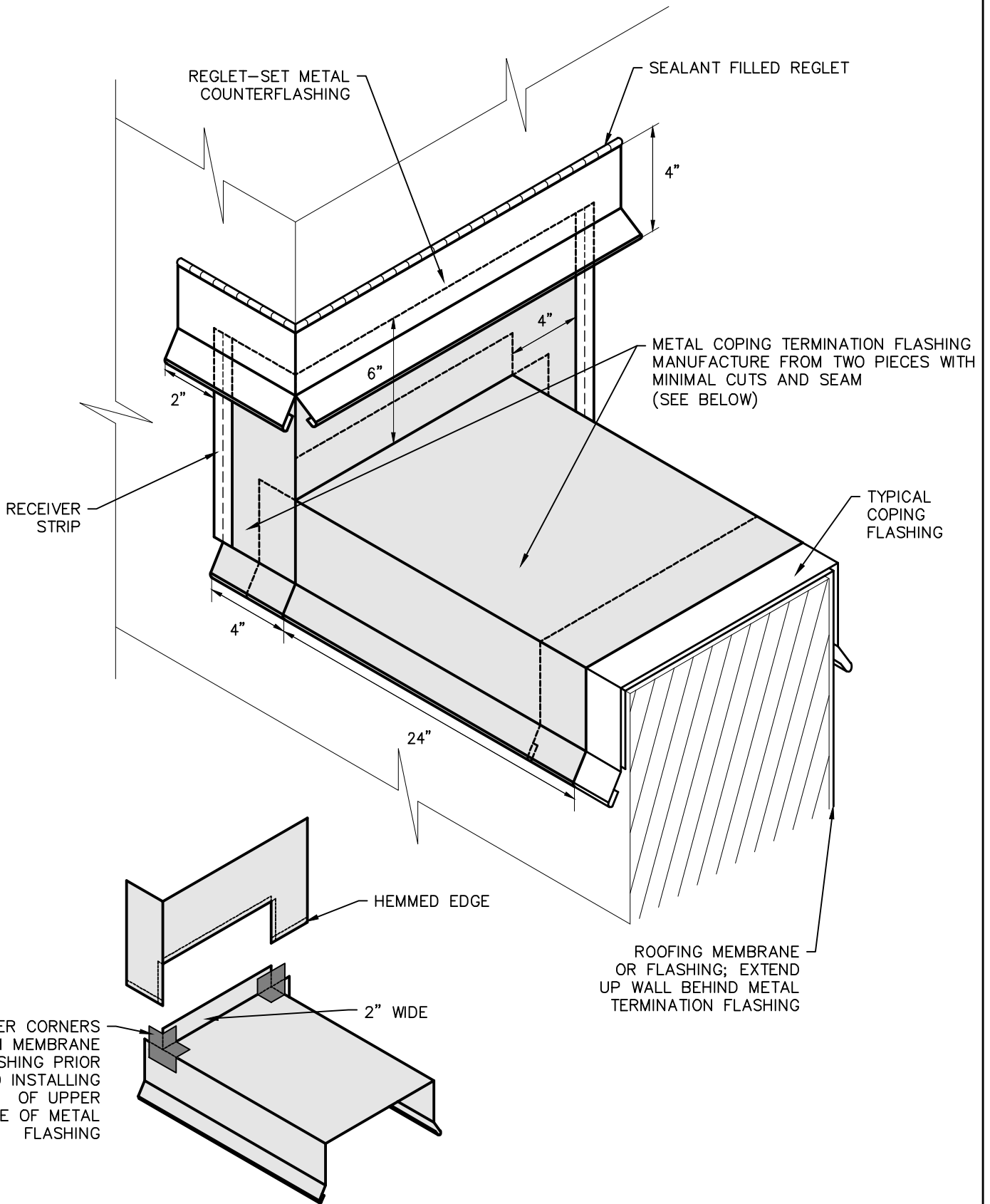
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CONCEALED COPING PLATE

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR - WATER TREATMENT

SCALE: N.T.S.
 APPROVED BY: K.E.T.
 DRAWN BY: K.L.E.
 DATE: NOVEMBER, 2018
 PROJECT #: T18074.RFG/RST3



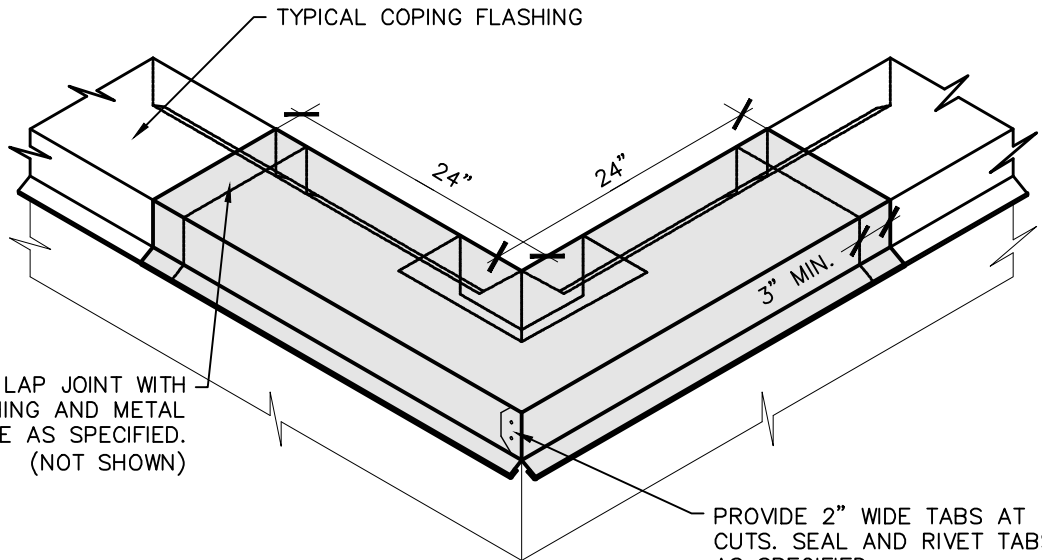
COVER CORNERS WITH MEMBRANE FLASHING PRIOR TO INSTALLING OF UPPER PIECE OF METAL FLASHING

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TWO PIECE METAL COPING TERMINATION

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

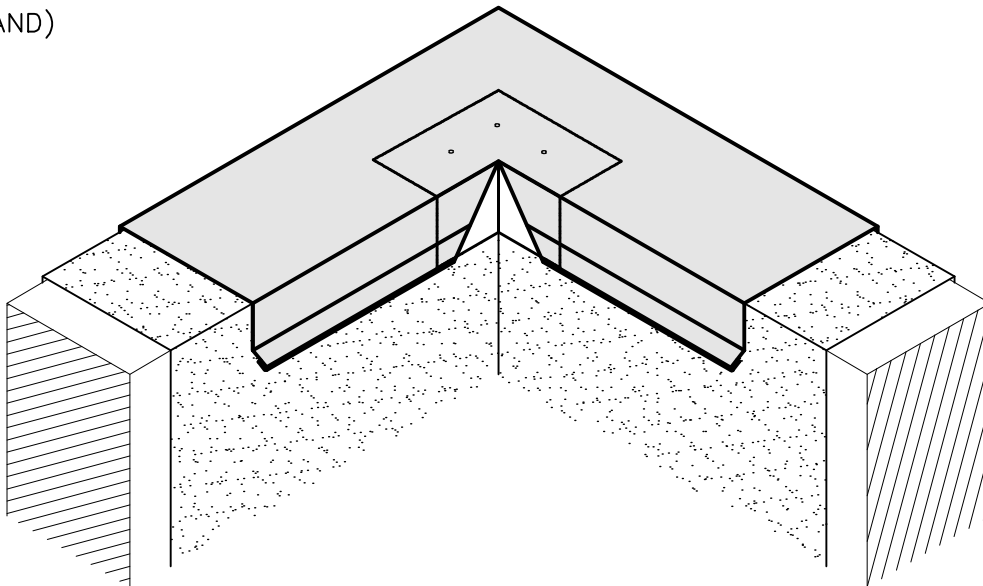
SCALE: N.T.S.
APPROVED BY: K.E.T.
DRAWN BY: K.L.E.
DATE: NOVEMBER, 2018
PROJECT #: T18074.RFG/RST3
D-23



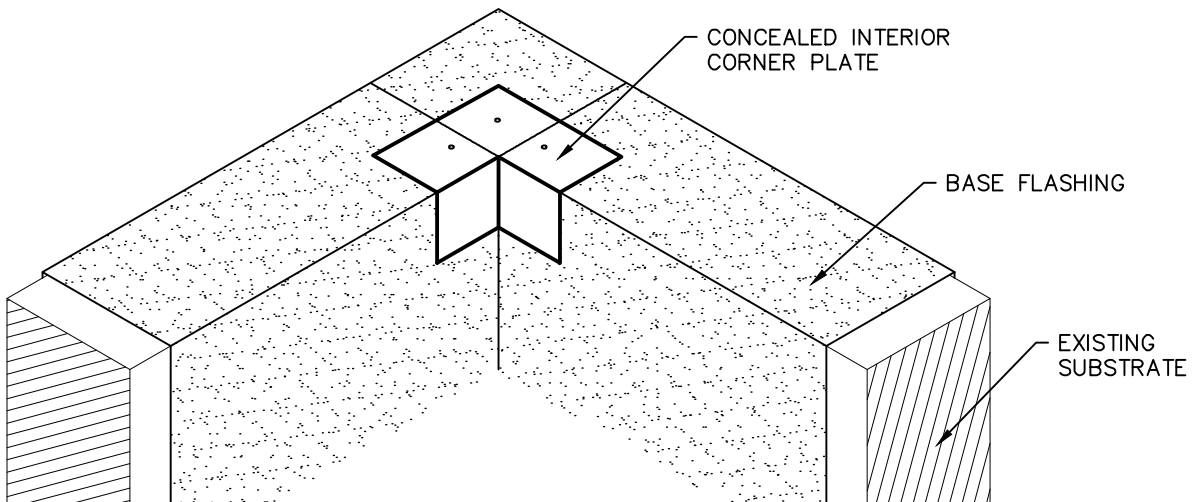
COVER LAP JOINT WITH FLASHING AND METAL COVER PLATE AS SPECIFIED. (NOT SHOWN)

PROVIDE 2" WIDE TABS AT CUTS. SEAL AND RIVET TABS AS SPECIFIED

STEP 3
(OPPOSITE HAND)



STEP 2



STEP 1

NOTE: CLEATS NOT SHOWN FOR CLARITY.

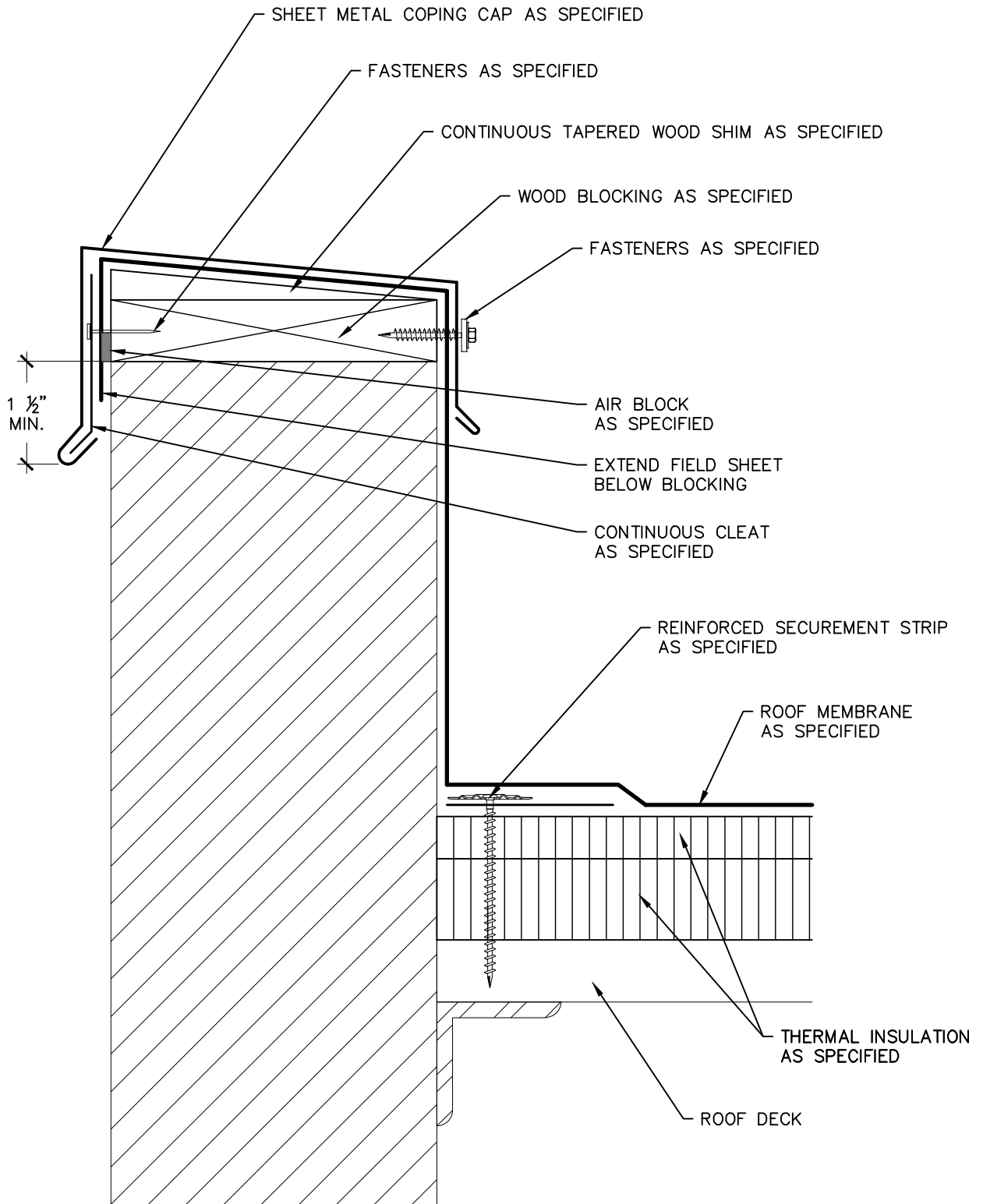
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METAL COPING CORNER TRANSITION
 MANUFACTURED FROM
 A SINGLE PIECE OF METAL

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

SCALE: N.T.S.
 APPROVED BY: K.E.T.
 DRAWN BY: K.L.E.
 DATE: NOVEMBER, 2018
 PROJECT #: T18074.RFG/RST3



NOTE: WOOD COMPONENTS ARE SHOWN GENERICALLY, PROVIDE WOOD BLOCKING AS SPECIFIED.

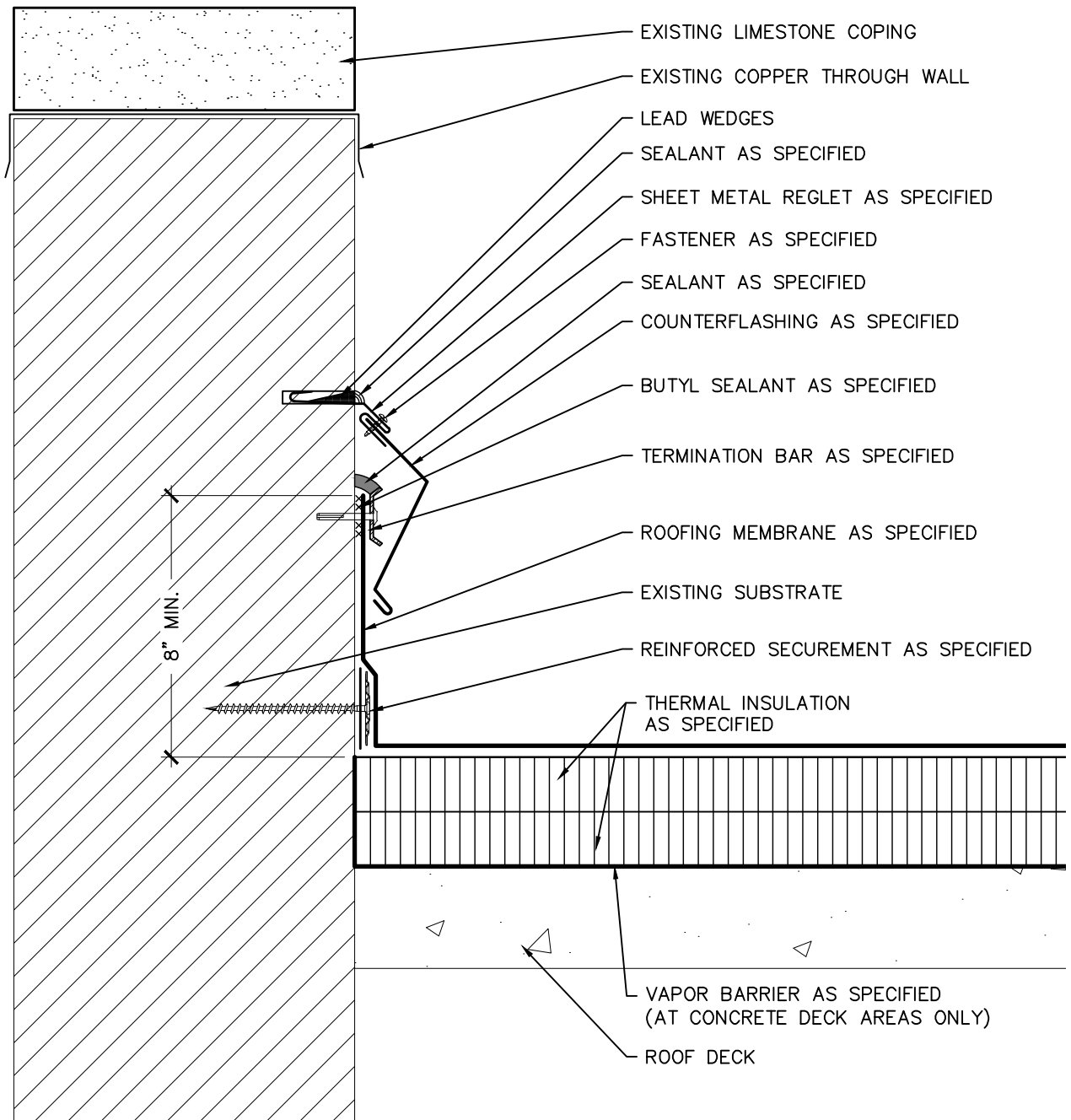
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METAL COPING CAP AND BASE FLASHING

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

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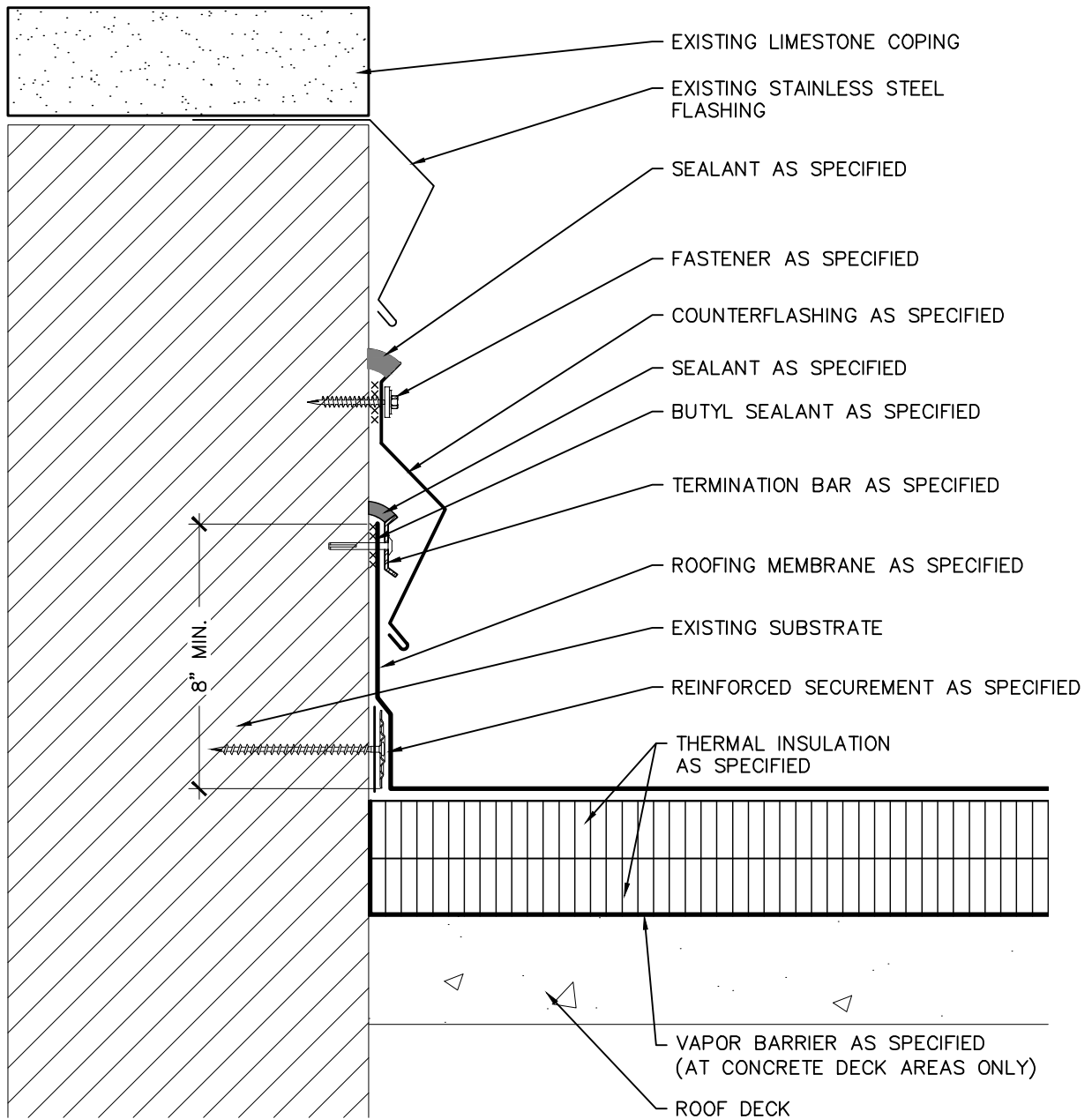
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LIMESTONE COPING AND FLASHING

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

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DRAWN BY: K.L.E.
DATE: NOVEMBER, 2018
PROJECT #: T18074.RFG/RST3



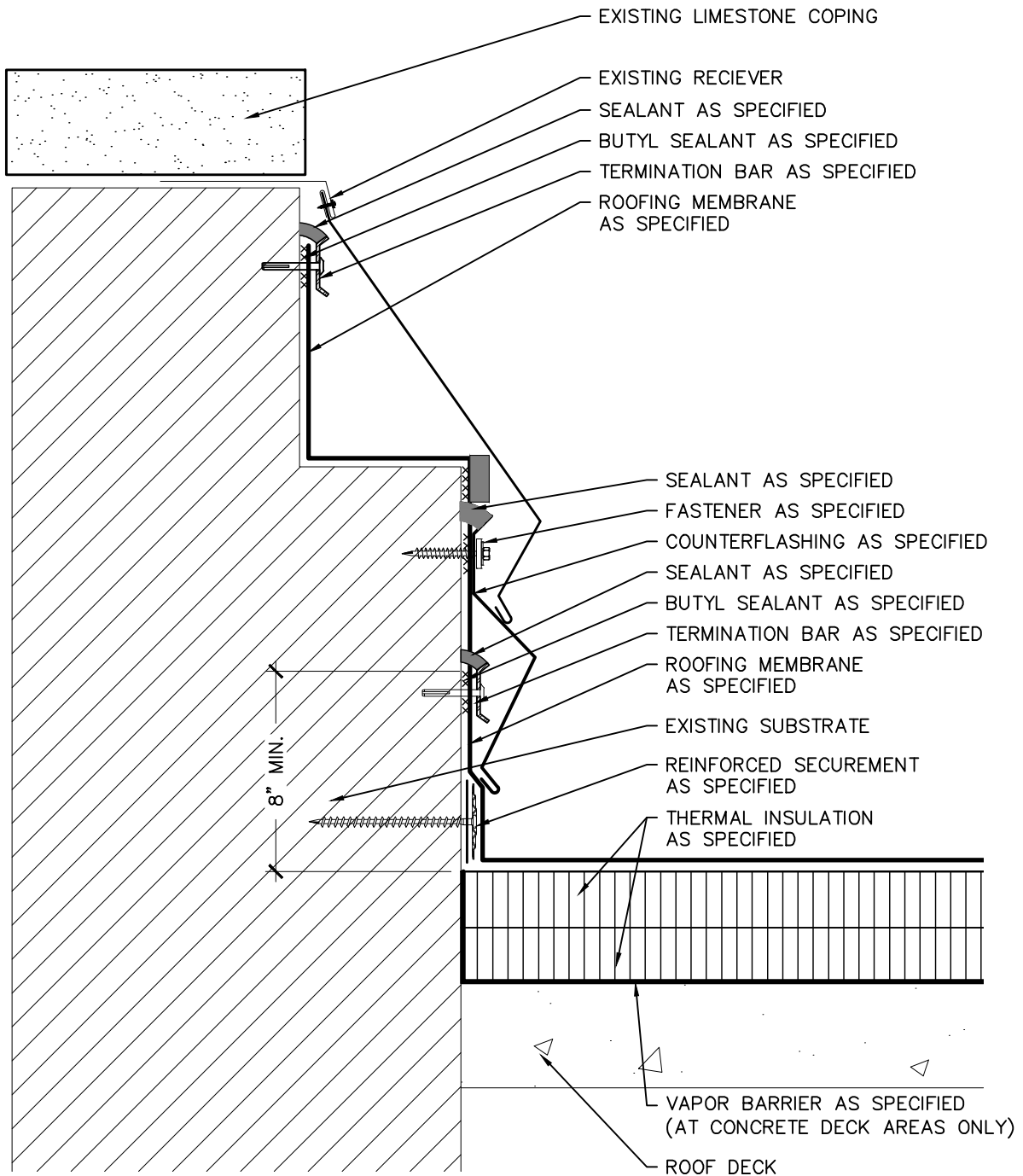
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LIMESTONE COPING AND STAINLESS COUNTERFLASHING

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

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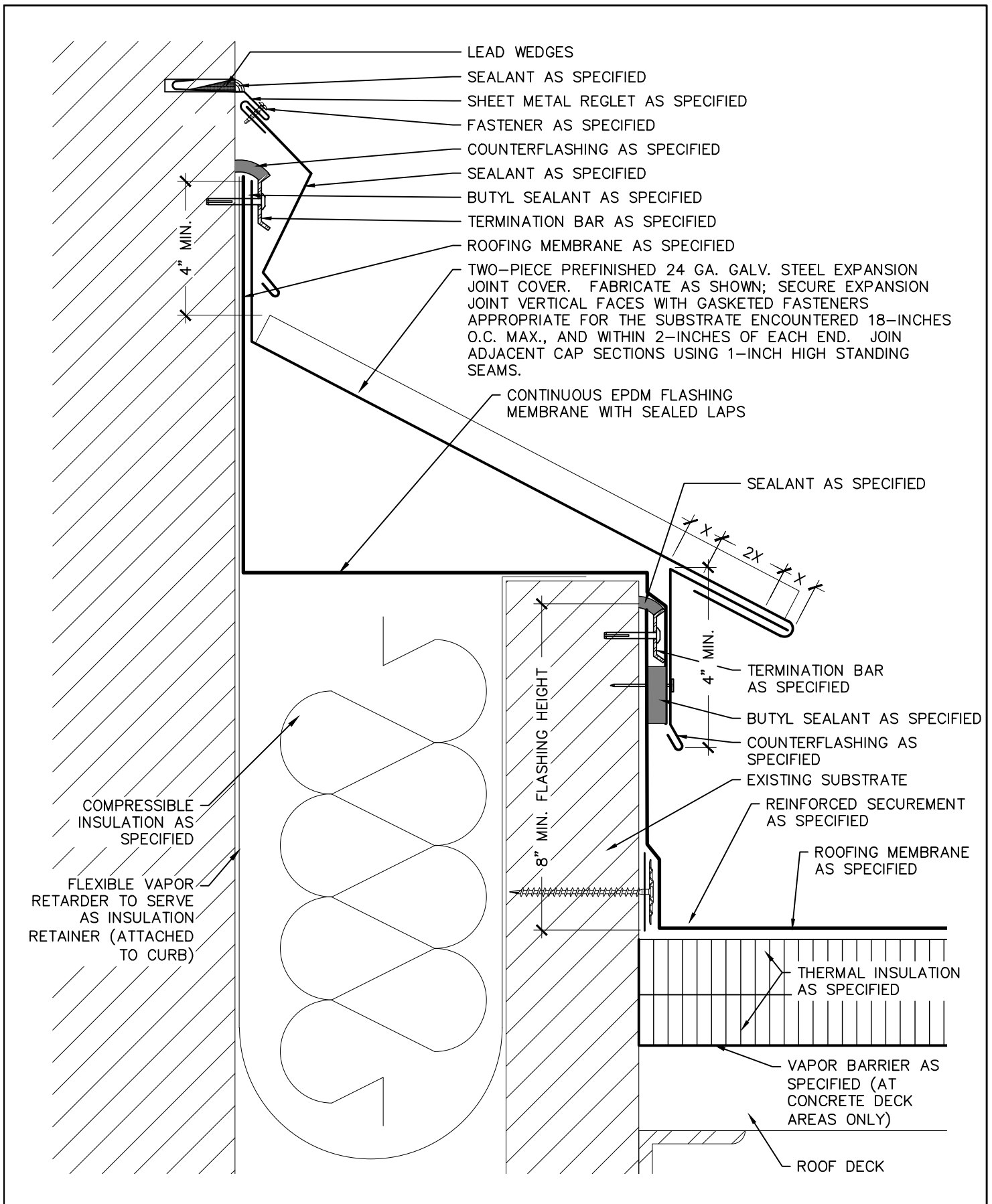
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LIMESTONE COPING AND SHEET METAL CLOSURE

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

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APPROVED BY: K.E.T.
DRAWN BY: K.L.E.
DATE: NOVEMBER, 2018
PROJECT #: T18074.RFG/RST3
D-27A



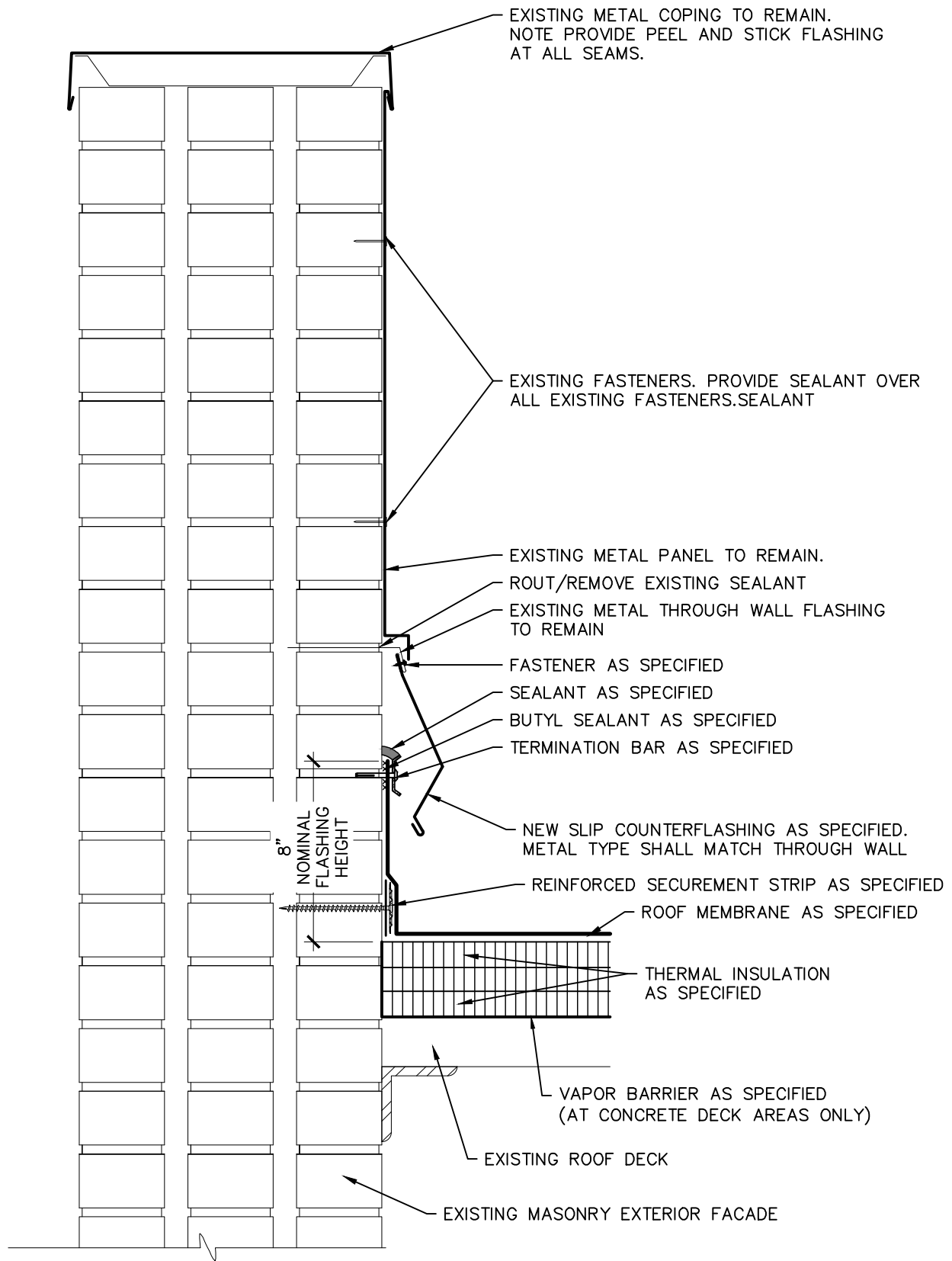
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ROOF TO WALL EXPANSION JOINT FLASHING

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

SCALE: N.T.S.
 APPROVED BY: K.E.T.
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 DATE: NOVEMBER, 2018
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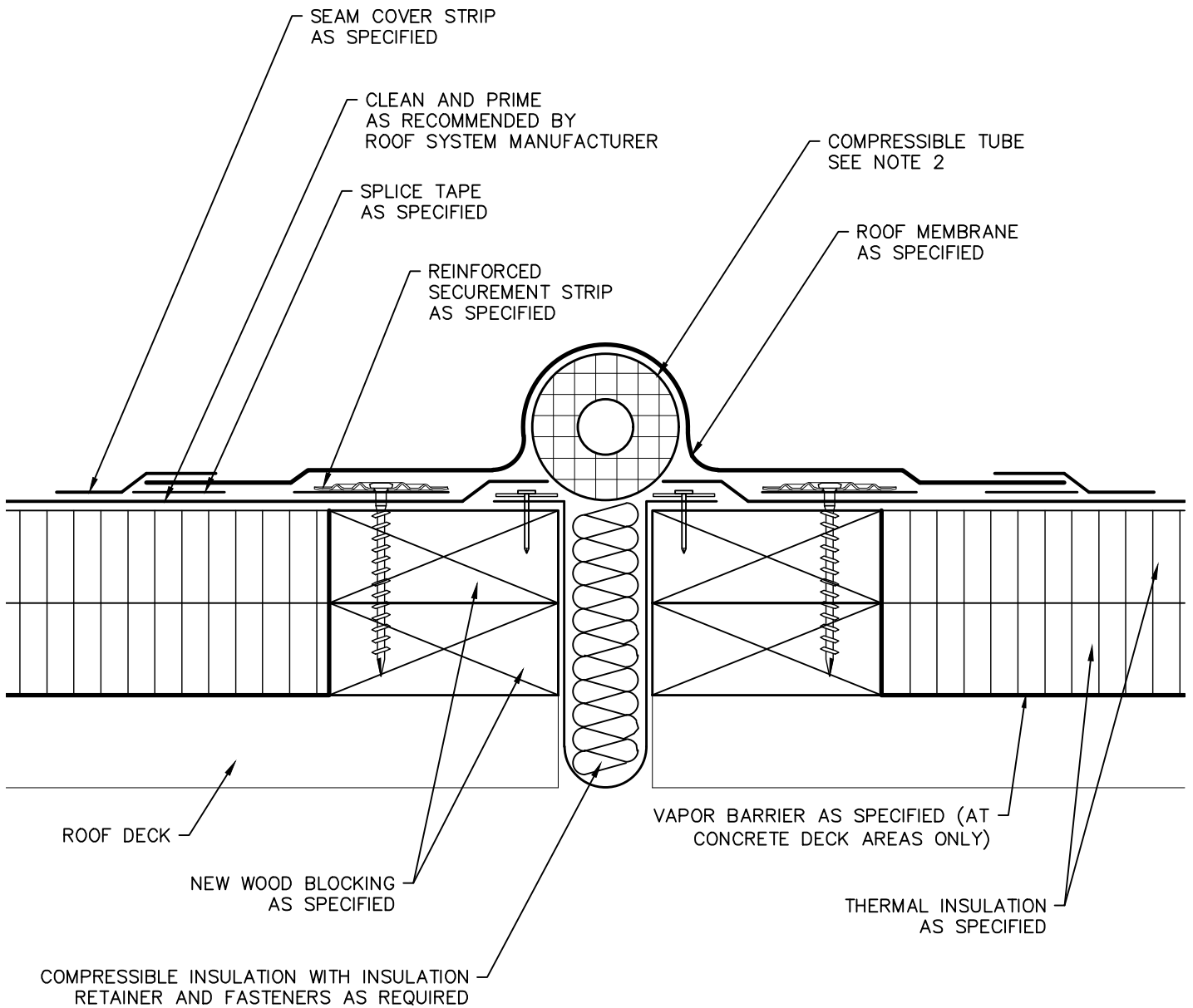
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EXISTING COPPER THROUGH WALL FLASHING
 AND METAL PANEL WALL

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

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DATE: NOVEMBER, 2018
PROJECT #: T18074.RFG/RST3



NOTE:

1. WOOD COMPONENTS ARE SHOWN GENERICALLY, PROVIDE WOOD BLOCKING AS SPECIFIED.
2. COMPRESSIBLE TUBE DIAMETER MUST EXCEED THE DECK OPENING BY 50% OR DESIGNED MOVEMENT (WHICHEVER IS GREATER).

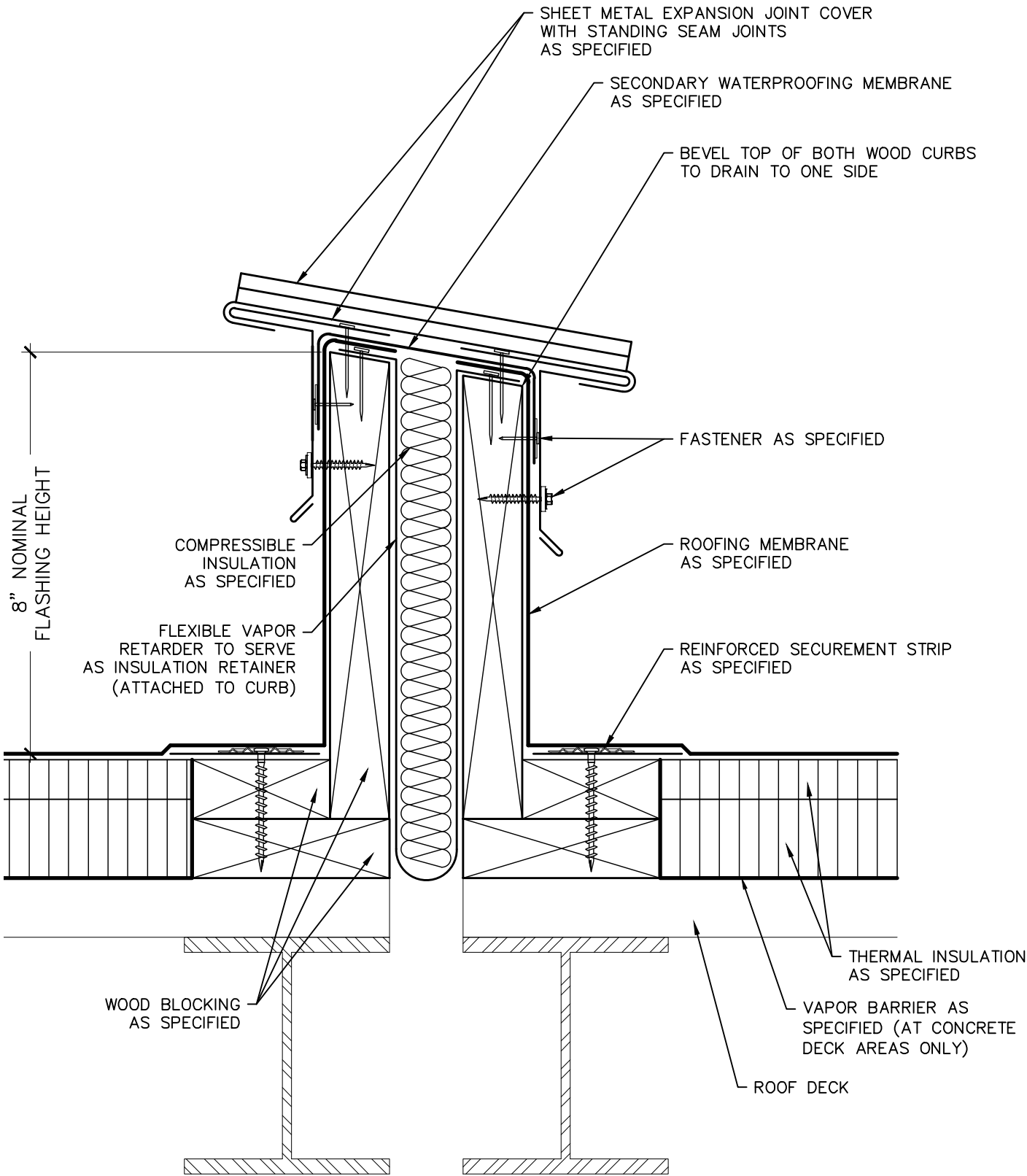
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EXPANSION JOINT – ROOF TO ROOF
 FIELD FABRICATED

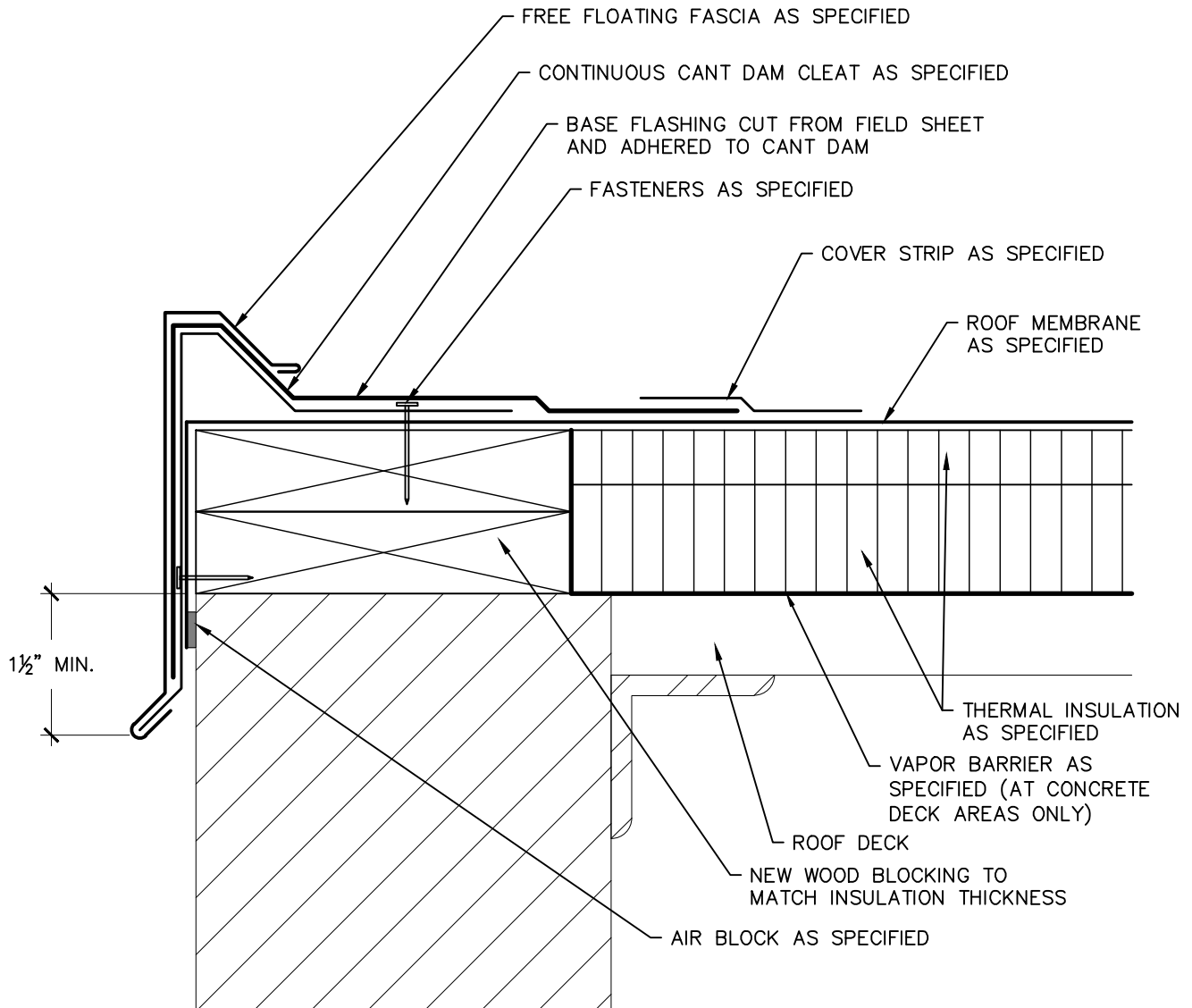
2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

SCALE: N.T.S.
APPROVED BY: K.E.T.
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DATE: NOVEMBER, 2018
PROJECT #: T18074.RFG/RST3



NOTE: WOOD COMPONENTS ARE SHOWN GENERICALLY, PROVIDE WOOD BLOCKING AS SPECIFIED.

<p>StructureTec. Total Building Envelope Management SolutionsSM 4777 Campus Drive • Kalamazoo, MI 49008 1121 Lake Cook Road, Ste C • Deerfield, IL 60015 473 Airport Road, Ste 1 • Butler, PA 16002 34119 W. Twelve Mile Road, Ste 270 • Farmington Hills, MI 48331</p>	EXPANSION JOINT WITH STANDING SEAM METAL COVER		SCALE: N.T.S.
			APPROVED BY: K.E.T.
			DRAWN BY: K.L.E.
	2018 ARCHITECTURAL / STRUCTURAL PROJECT CITY OF ANN ARBOR – WATER TREATMENT		DATE: NOVEMBER, 2018
			PROJECT #: T18074.RFG/RST3
			D-31



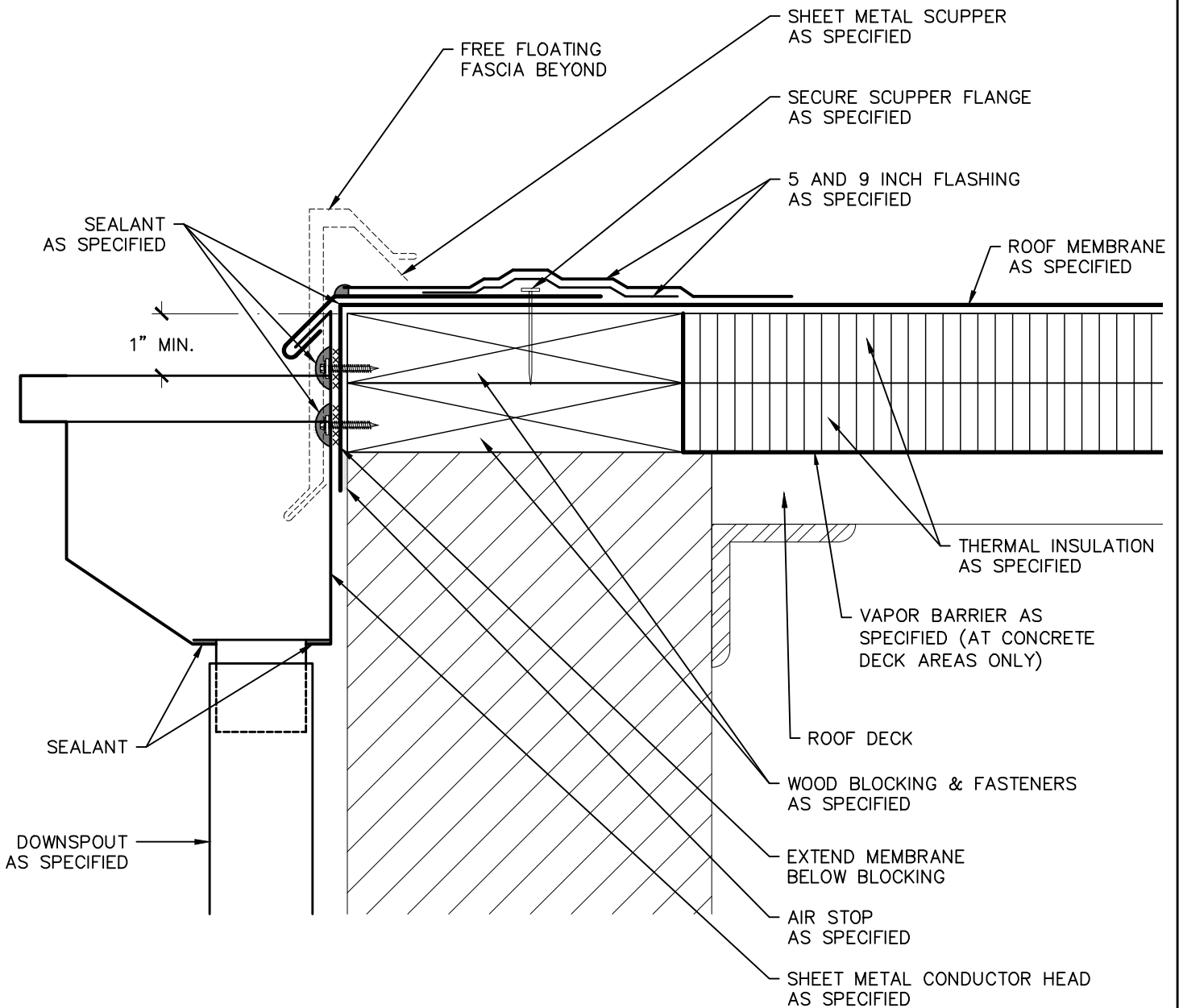
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FREE-FLOATING FASCIA SYSTEM

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

SCALE: N.T.S.
APPROVED BY: K.E.T.
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StructureTec.

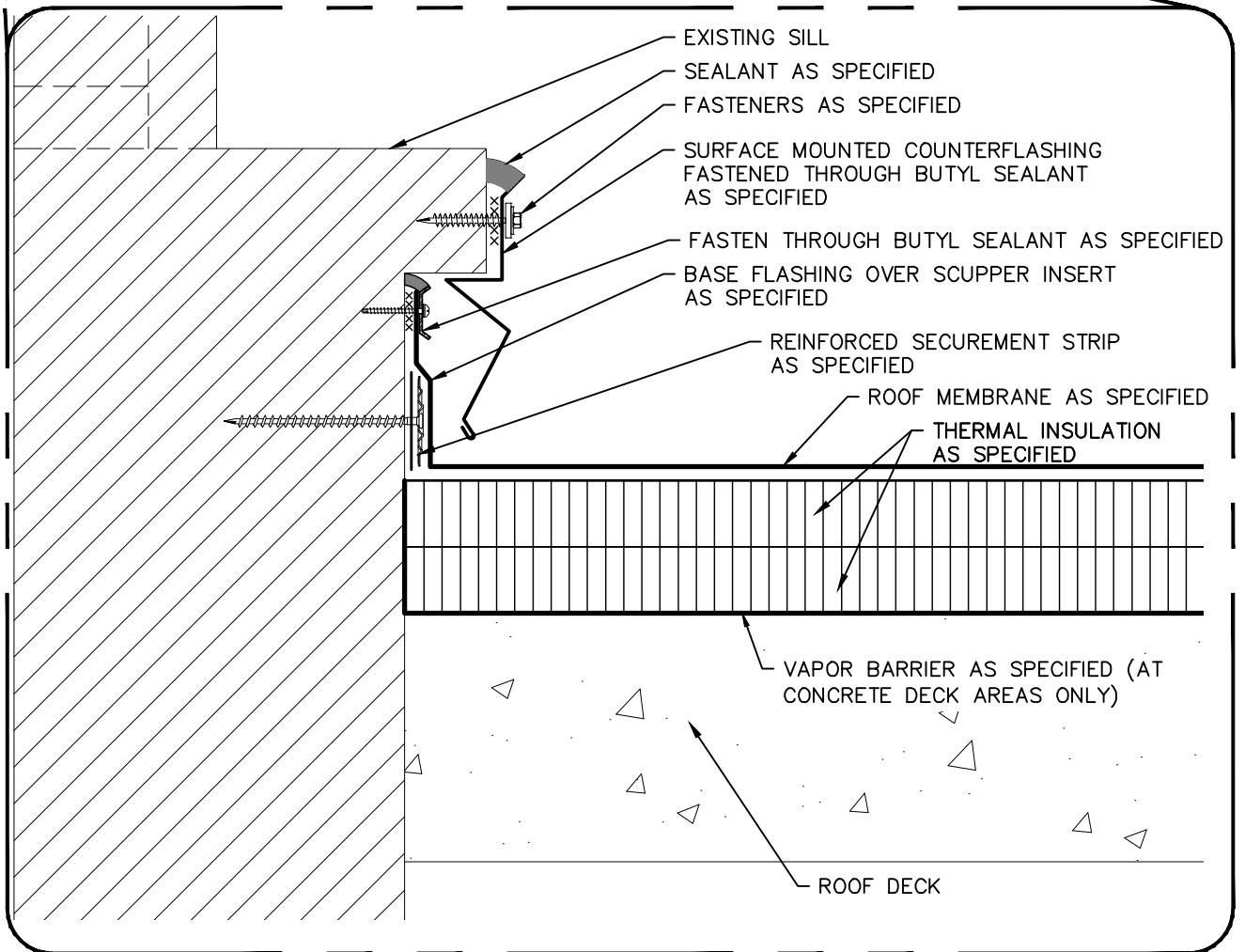
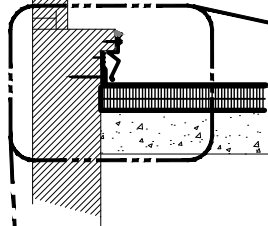
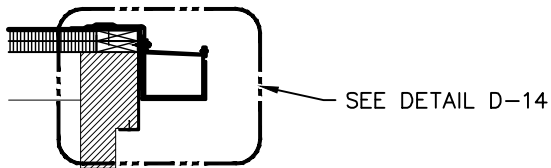
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SCUPPER THROUGH ROOF EDGE

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

SCALE: N.T.S.
 APPROVED BY: K.E.T.
 DRAWN BY: K.L.E.
 DATE: NOVEMBER, 2018
 PROJECT #: T18074.RFG/RST3

D-33



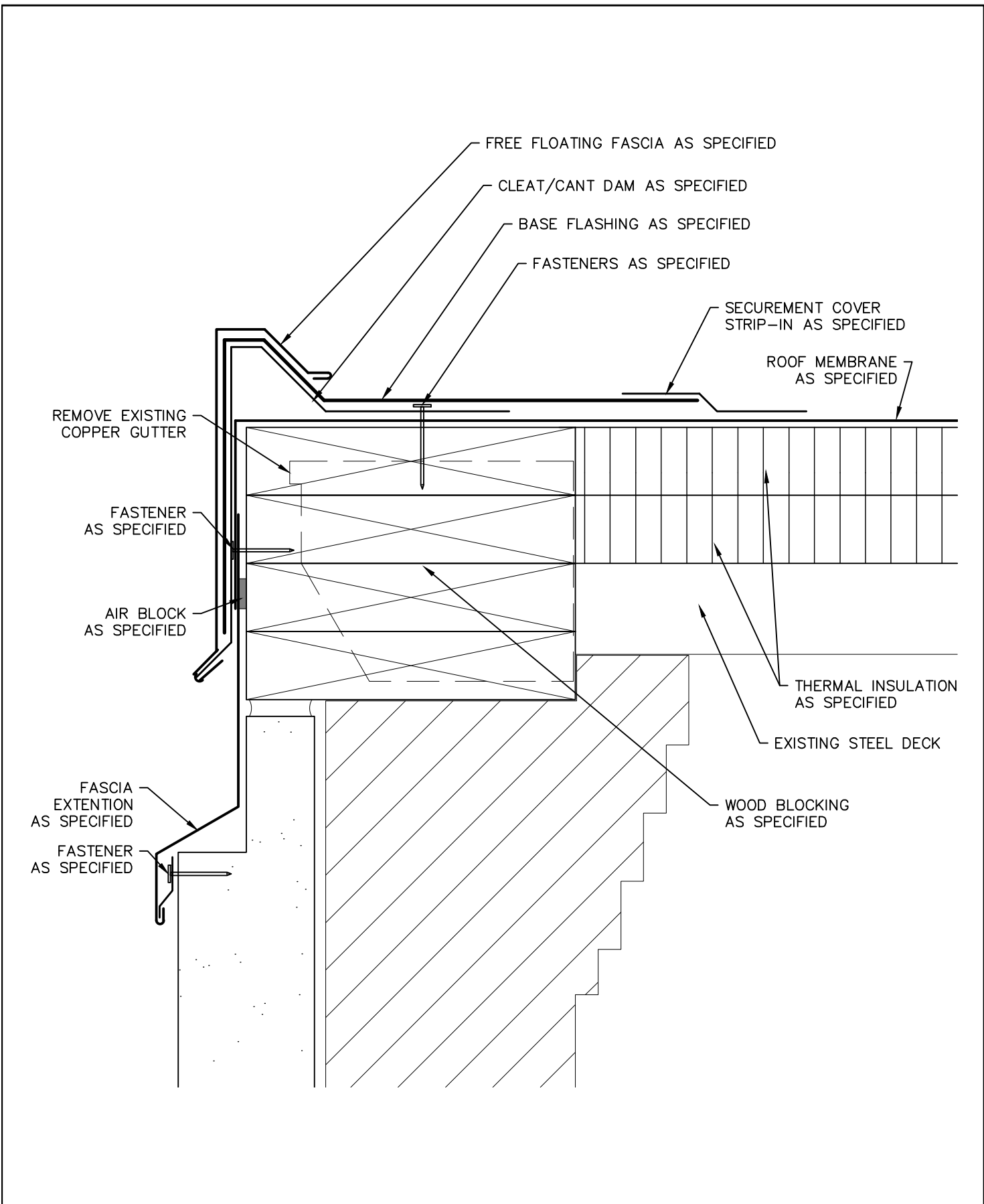
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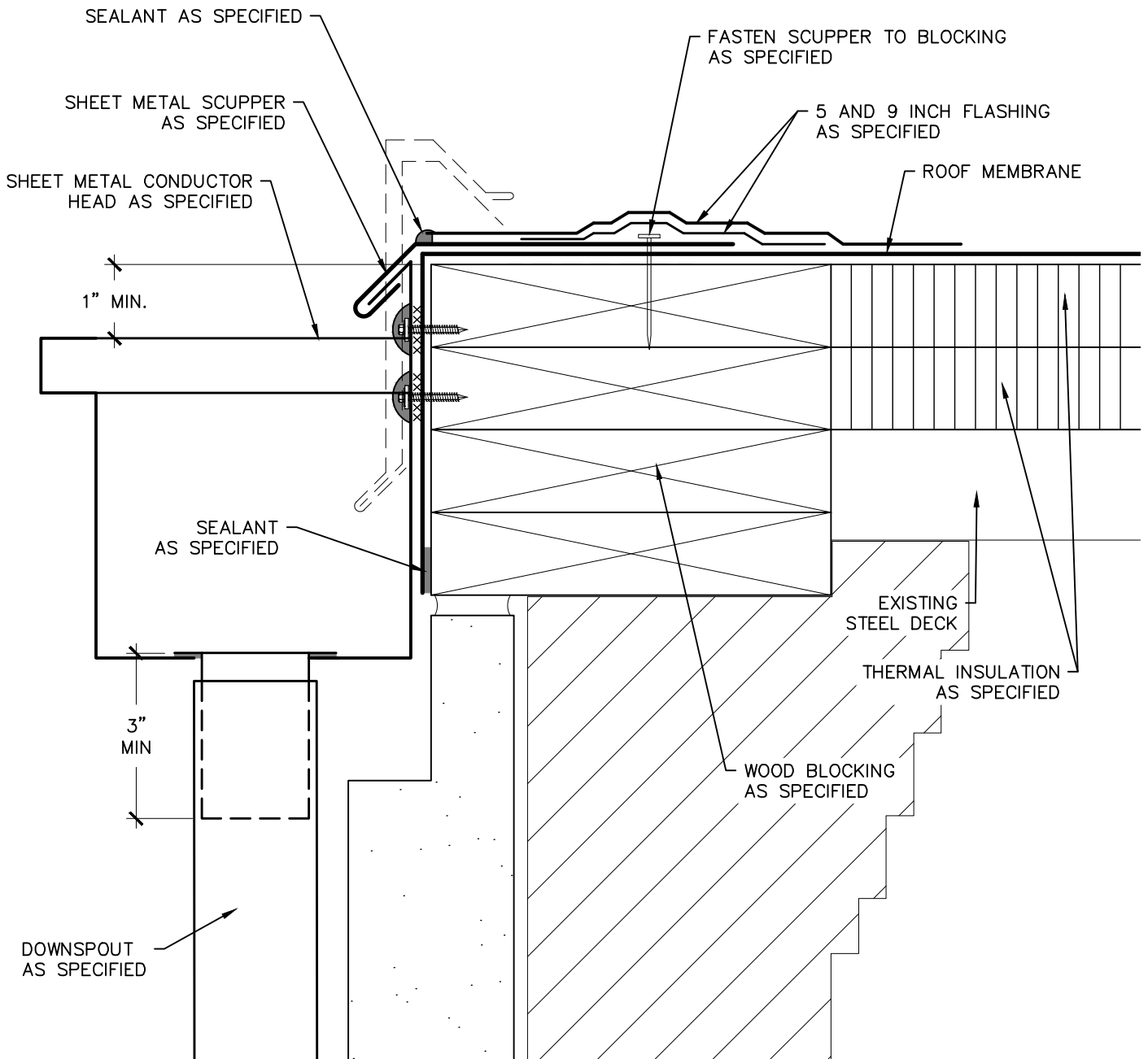
ROOF LEVEL WINDOW AND BASE FLASHING

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

SCALE: N.T.S.
APPROVED BY: K.E.T.
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PROJECT #: T18074.RFG/RST3



StructureTec. Total Building Envelope Management Solutions SM 4777 Campus Drive • Kalamazoo, MI 49008 1121 Lake Cook Road, Ste C • Deerfield, IL 60015 473 Airport Road, Ste 1 • Butler, PA 16002 34119 W. Twelve Mile Road, Ste 270 • Farmington Hills, MI 48331	FREE FLOATING FASCIA SYSTEM	SCALE: N.T.S.
		APPROVED BY: K.E.T.
		DRAWN BY: K.L.E.
		DATE: NOVEMBER, 2018
		PROJECT #: T18074.RFG/RST3
	2018 ARCHITECTURAL / STRUCTURAL PROJECT CITY OF ANN ARBOR – WATER TREATMENT	D-35



NOTE:
FIELD VERIFY SCUPPER DIMENSIONS

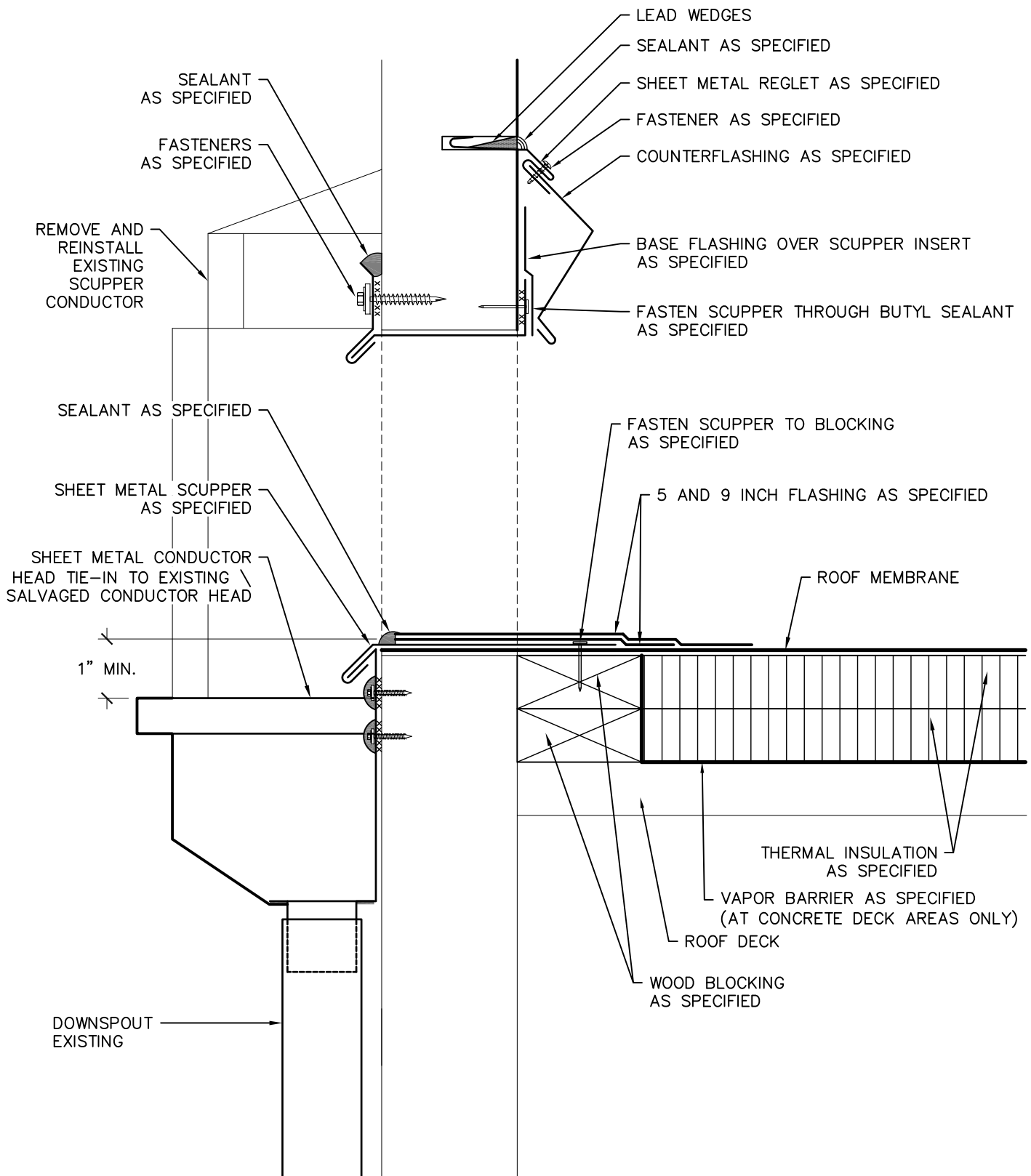
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FREE FLOATING FASCIA SYSTEM
AT SCUPPER

2018 ARCHITECTURAL / STRUCTURAL PROJECT
CITY OF ANN ARBOR – WATER TREATMENT

SCALE: N.T.S.
APPROVED BY: K.E.T.
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THROUGH-WALL SCUPPER AT FILTER GALLERY

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

SCALE: N.T.S.

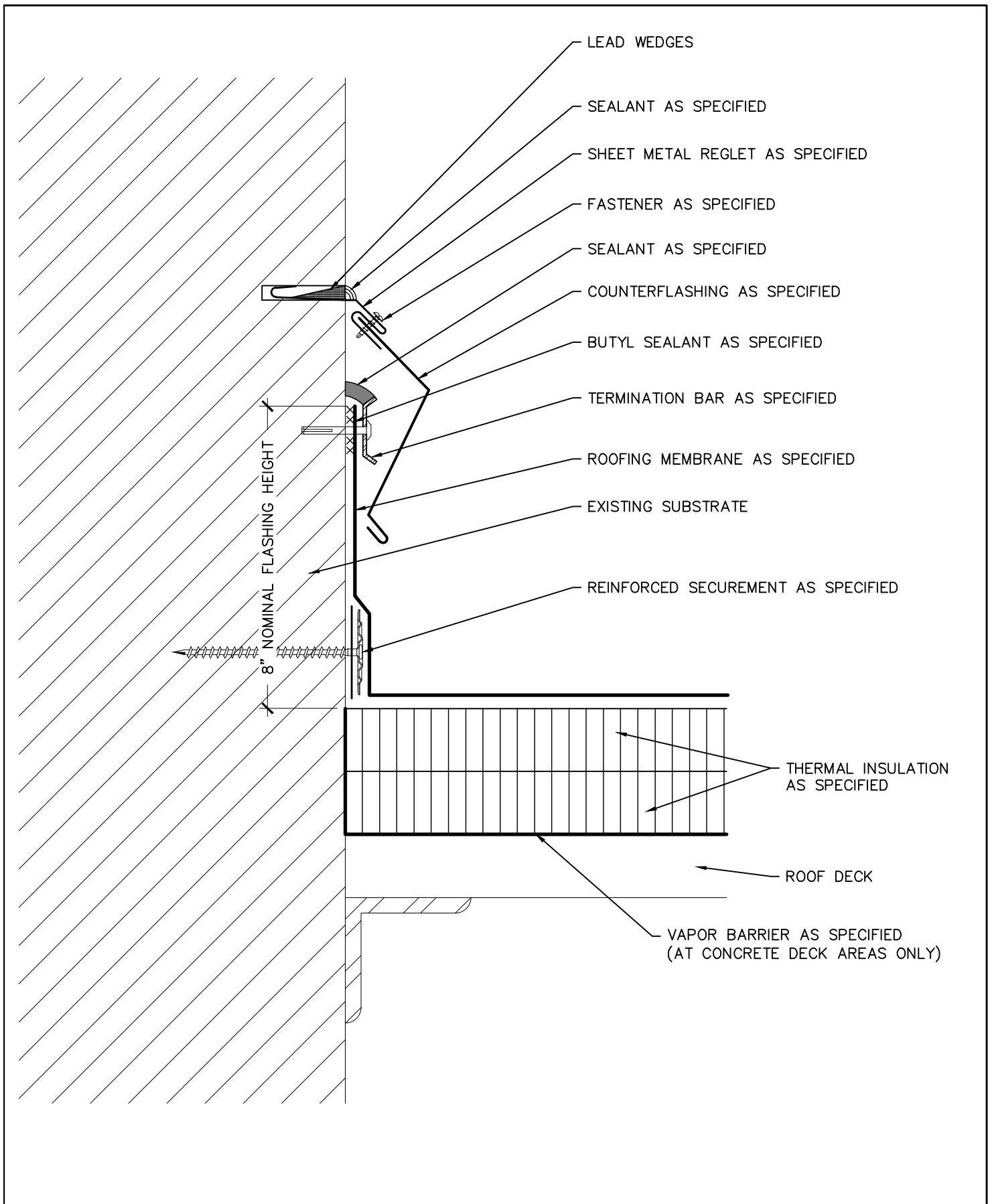
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DRAWN BY: K.L.E.

DATE: NOVEMBER, 2018

PROJECT #: T18074.RFG/RST3

D-36

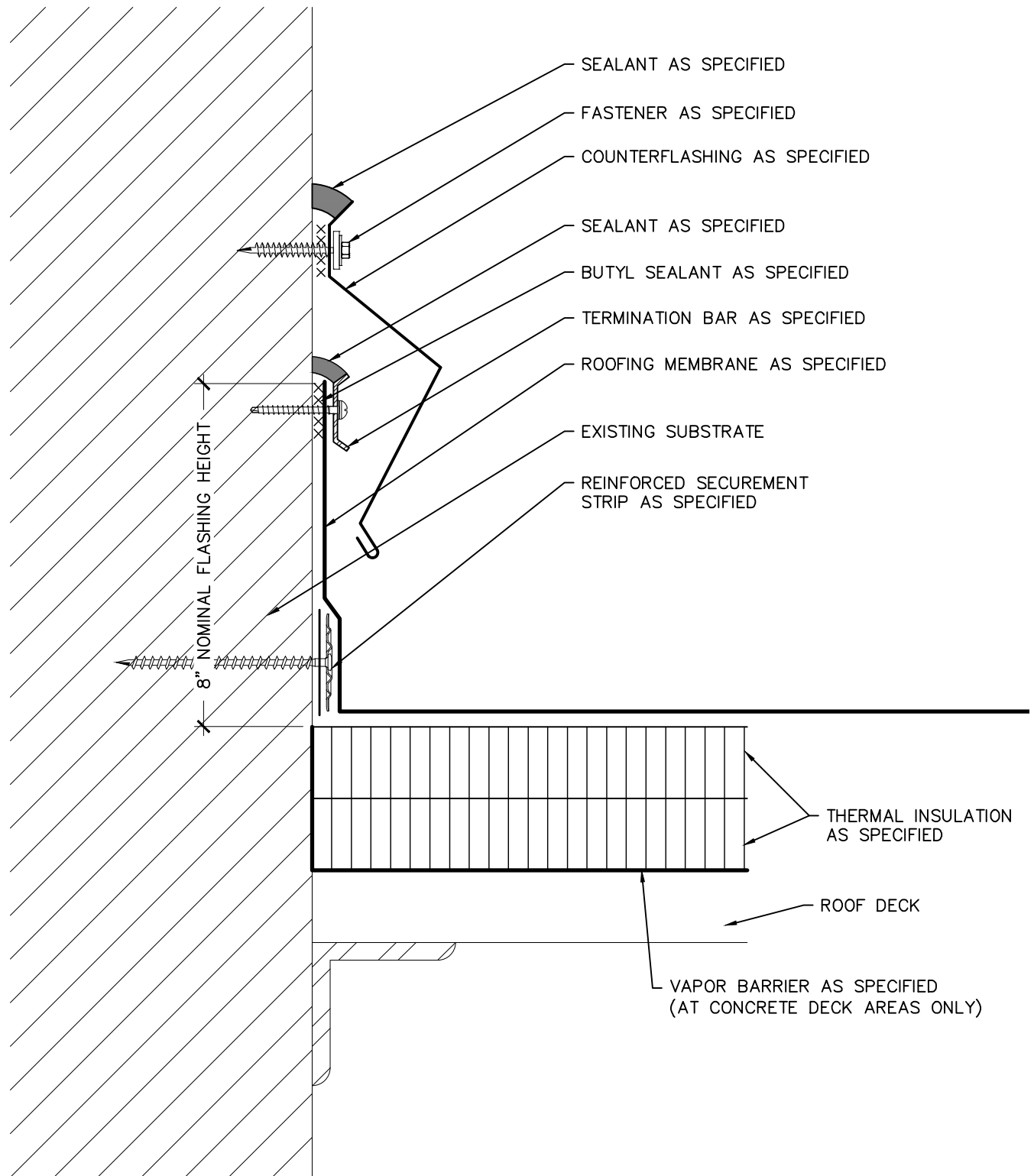


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REGLET COUNTERFLASHING, 2 PIECE

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

SCALE: N.T.S.
 APPROVED BY: K.E.T.
 DRAWN BY: K.L.E.
 DATE: NOVEMBER, 2018
 PROJECT #: T18074.RFG/RST3
 D-39



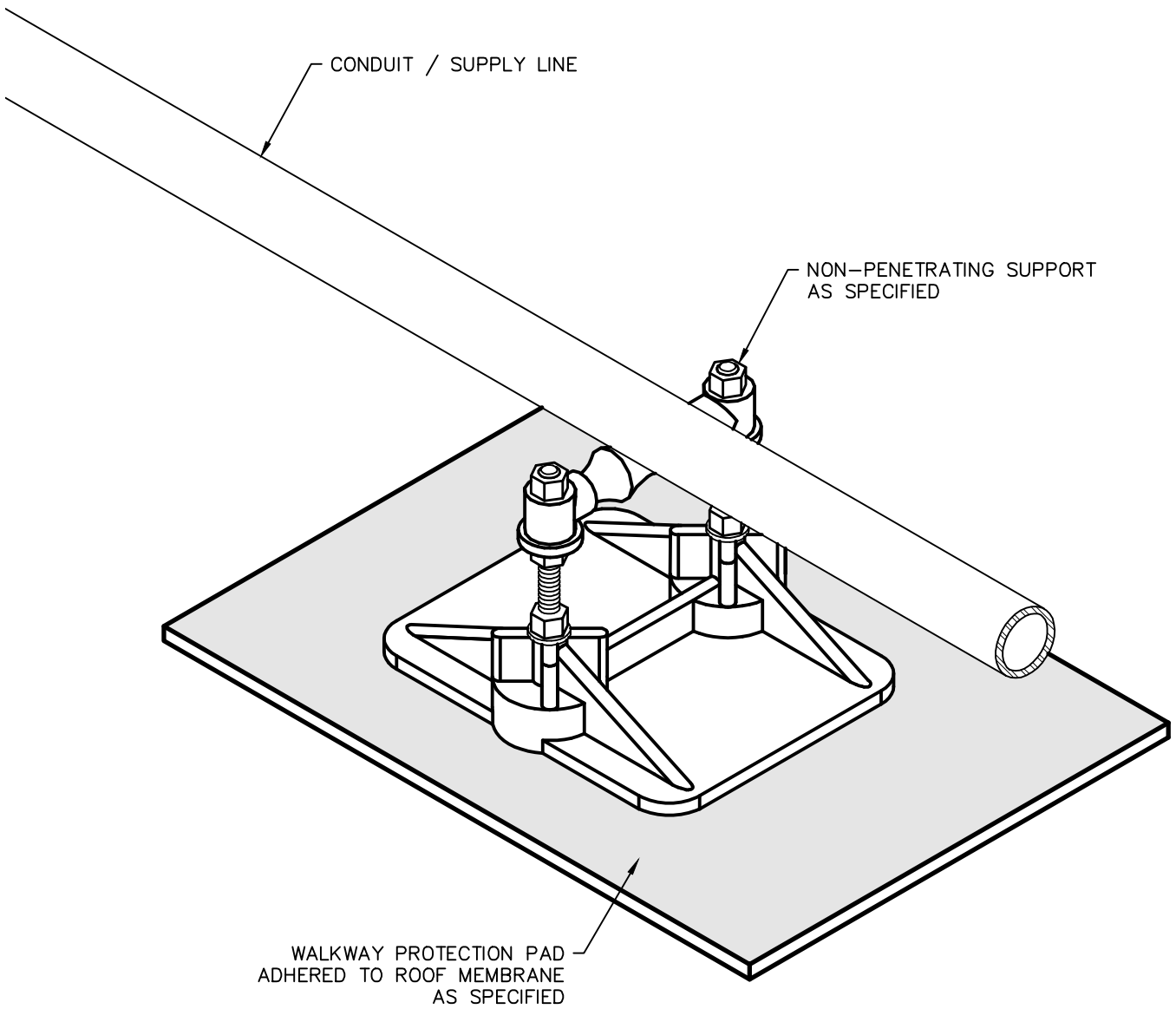
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SURFACE MOUNTED COUNTERFLASHING,
 1 PIECE

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

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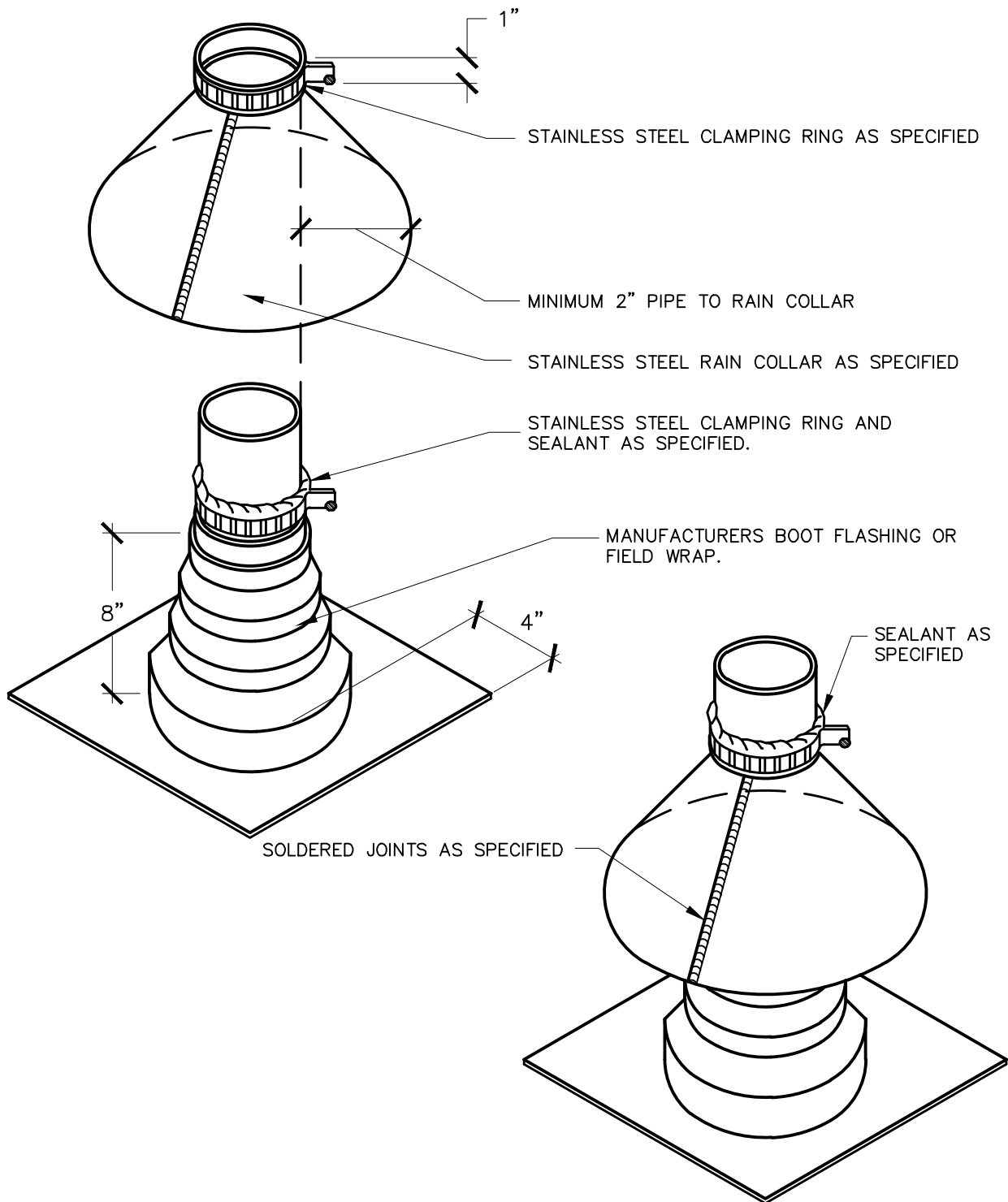
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NON-PENETRATING PIPE SUPPORT

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

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NOTE: ALL JOINTS MUST BE SOLDERED

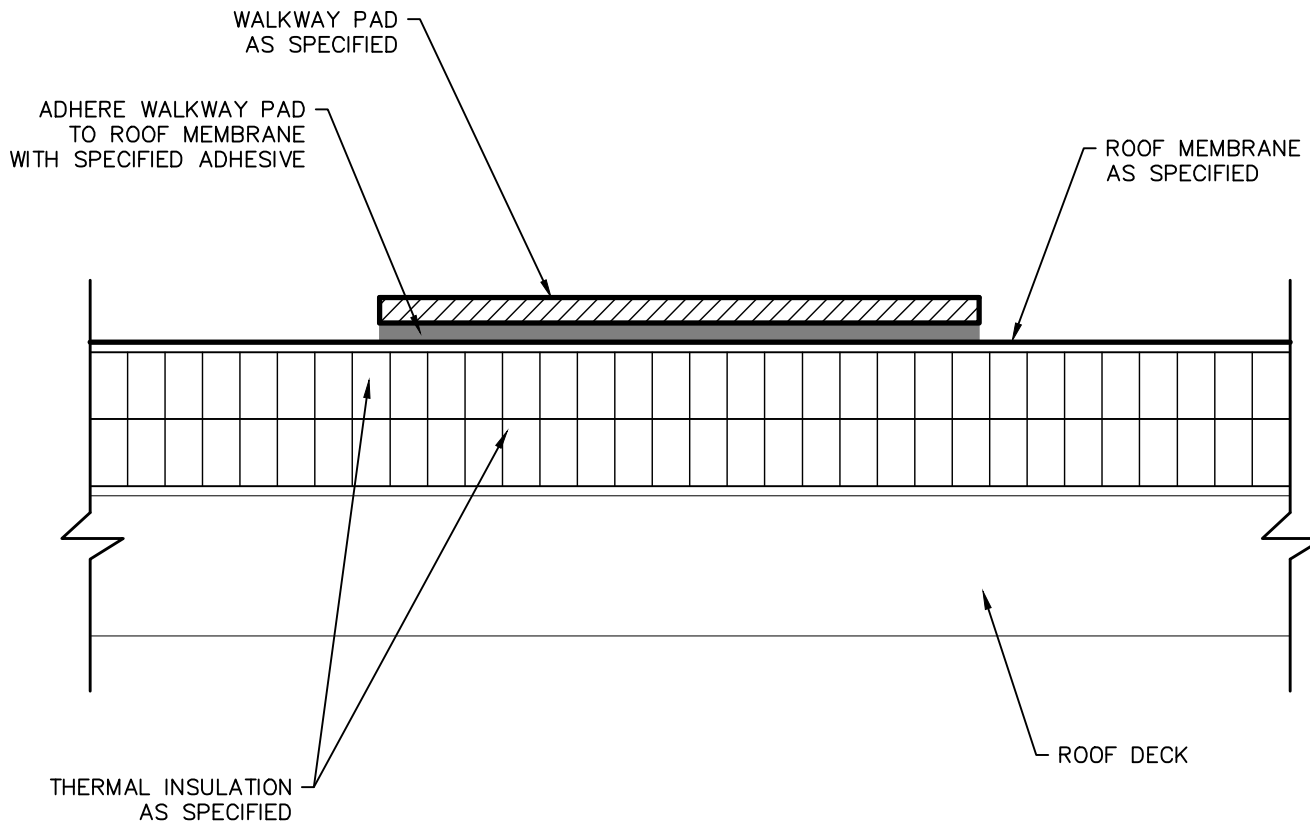
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SOLDERED RAIN COLLAR

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

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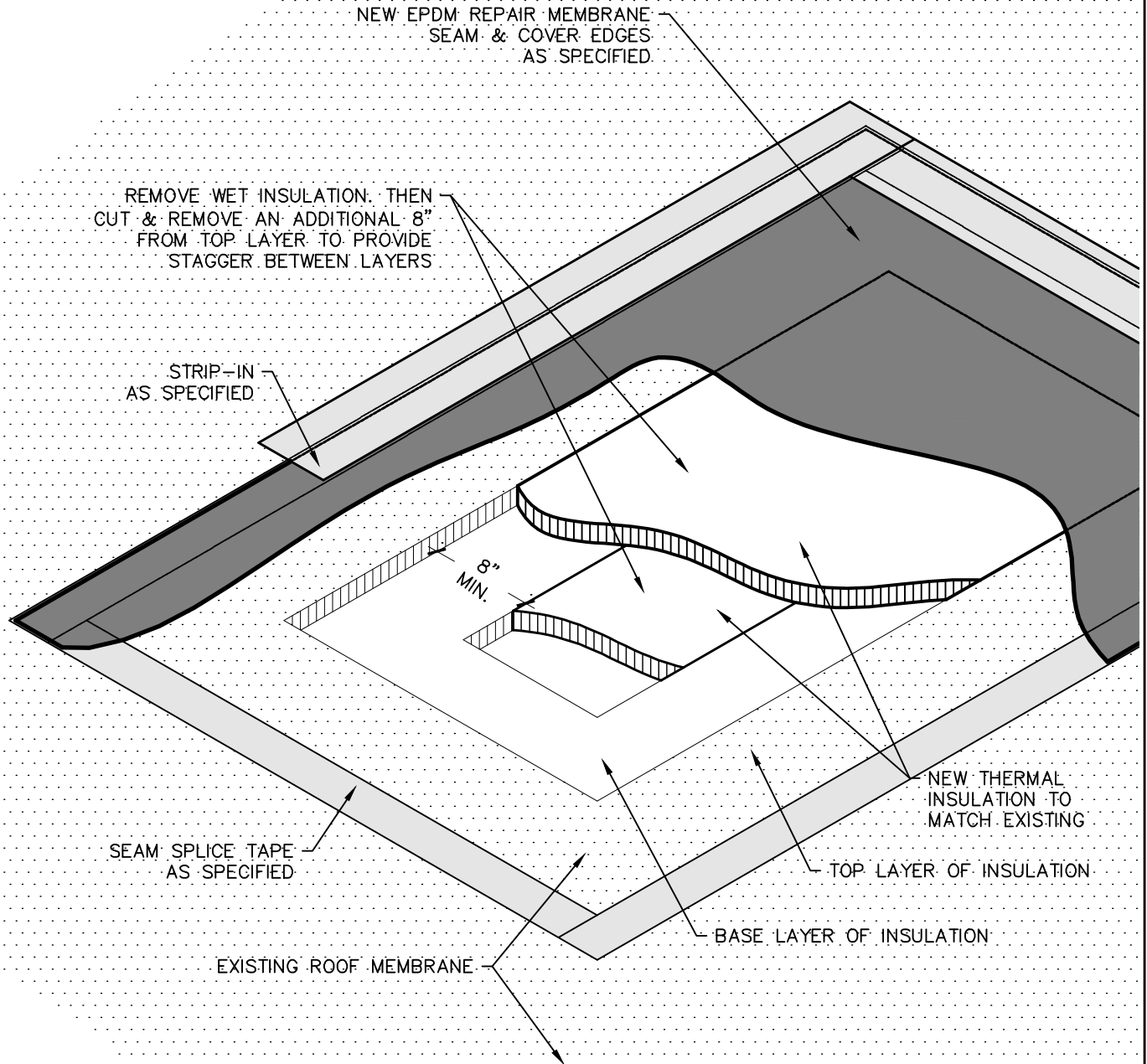
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WALKWAY PAD INSTALLATION

2018 ARCHITECTURAL / STRUCTURAL PROJECT
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WET INSULATION REPLACEMENT

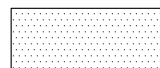
2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

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DRAWN BY: K.L.E.
DATE: NOVEMBER, 2018
PROJECT #: T18074.RFG/RST3

GENERAL NOTES:

1. PERFORM MASONRY RESTORATION IN CONFORMANCE WITH WRITTEN SPECIFICATIONS IN THE PROJECT MANUAL.
2. DRAWING AND DETAILS ARE PROVIDED FOR GENERAL ILLUSTRATION OF TYPICAL BUILDING CONDITIONS ONLY.
3. CONTRACTOR IS REQUIRED TO VERIFY ALL CONDITIONS, DIMENSIONS, AND QUANTITIES FOR SPECIFIED WORK PRIOR TO SUBMITTING A BID.

LEGEND:

 AREA OF 100% JOINT RESTORATION

 AREA OF MASONRY REBUILD

RESTORATION NOTES

R1 AT EXTERIOR FACE OF WALL, RE-POINT ALL MORTAR JOINTS AT DESIGNATED AREA ON DRAWINGS IN ACCORDANCE WITH DETAIL RSD-7 AND SPECIFICATIONS. REPLACE ALL CRACKED/SPALLED BRICK UNITS IN ACCORDANCE WITH DETAIL RSD-6 AND SPECIFICATIONS PER UNIT PRICE AND ALLOWANCE. REBUILD UNSTABLE BRICK MASONRY AREAS IN ACCORDANCE WITH DETAIL RSD-6 AND SPECIFICATIONS PER UNIT PRICE AND ALLOWANCE. SEAL ALL WALL PENETRATIONS. SPECIFIC REPAIRS AND LOCATIONS TO BE DETERMINED BY ARCHITECT UPON ACCESS TO WALL.

R1.1 AT EXTERIOR FACE OF WALL, RE-POINT ALL CRACKED/WEATHERED MORTAR JOINTS AT DESIGNATED AREA ON DRAWINGS IN ACCORDANCE WITH DETAIL RSD-7 AND SPECIFICATIONS PER UNIT PRICE AND ALLOWANCE. REPLACE ALL CRACKED/SPALLED BRICK UNITS IN ACCORDANCE WITH DETAIL RSD-6 AND SPECIFICATIONS PER UNIT PRICE AND ALLOWANCE. REBUILD UNSTABLE BRICK MASONRY AREAS IN ACCORDANCE WITH DETAIL RSD-6 AND SPECIFICATIONS PER UNIT PRICE AND ALLOWANCE. SEAL ALL WALL PENETRATIONS. SPECIFIC REPAIRS AND LOCATIONS TO BE DETERMINED BY ARCHITECT UPON ACCESS TO WALL.

R2 AT ROOF-SIDE FACE OF PARAPET WALL FROM COPING TO CONCRETE DECK, RE-POINT ALL MORTAR JOINTS AT DESIGNATED AREA ON DRAWINGS IN ACCORDANCE WITH DETAIL RSD-7 AND SPECIFICATIONS. REPLACE ALL CRACKED/SPALLED BRICK UNITS IN ACCORDANCE WITH DETAIL RSD-6 AND SPECIFICATIONS PER UNIT PRICE AND ALLOWANCE. REBUILD UNSTABLE BRICK MASONRY AREAS IN ACCORDANCE WITH DETAIL RSD-6 AND SPECIFICATIONS PER UNIT PRICE AND ALLOWANCE. SEAL ALL WALL PENETRATIONS. SPECIFIC REPAIRS AND LOCATIONS TO BE DETERMINED BY ARCHITECT UPON ACCESS TO WALL.

R2.1 AT ROOF-SIDE FACE OF PARAPET WALL FROM COPING TO CONCRETE DECK, RE-POINT ALL CRACKED/WEATHERED MORTAR JOINTS AT DESIGNATED AREA ON DRAWINGS IN ACCORDANCE WITH DETAIL RSD-7 AND SPECIFICATIONS PER UNIT PRICE AND ALLOWANCE. REPLACE ALL CRACKED/SPALLED BRICK UNITS IN ACCORDANCE WITH DETAIL RSD-6 AND SPECIFICATIONS PER UNIT PRICE AND ALLOWANCE. REBUILD UNSTABLE BRICK MASONRY AREAS IN ACCORDANCE WITH DETAIL RSD-6 AND SPECIFICATIONS PER UNIT PRICE AND ALLOWANCE. SEAL ALL WALL PENETRATIONS. SPECIFIC REPAIRS AND LOCATIONS TO BE DETERMINED BY ARCHITECT UPON ACCESS TO WALL.

R3 REBUILD MASONRY PARAPET WALL AT DESIGNATED AREAS ON DRAWINGS IN ACCORDANCE WITH DETAILS 1/RSD-1 AND 2/RSD-1 AND SPECIFICATIONS.

R4 REMOVE, SALVAGE, AND RE-INSTALL LIMESTONE COURSINGS (TWO) AND COPINGS AT DESIGNATED AREAS ON DRAWINGS IN ACCORDANCE WITH 2/RSD-3 AND SPECIFICATIONS. REPAIR ALL CRACKED LIMESTONE UNITS WITH PINS AND EPOXY PER SPECIFICATIONS.

R5 REMOVE, SALVAGE, AND RE-INSTALL LIMESTONE COURSING (ONE) AND COPINGS AT DESIGNATED AREAS ON DRAWINGS IN ACCORDANCE WITH 3/RSD-3 AND SPECIFICATIONS. REPAIR ALL CRACKED LIMESTONE UNITS WITH PINS AND EPOXY PER SPECIFICATIONS.

R6 RESTORE EXITING STEEL LINTEL AND PROVIDE NEW THROUGH-WALL FLASHING IN ACCORDANCE WITH DETAIL 1/RSD-1 AND SPECIFICATIONS.

R7 REBUILD MASONRY WALL AT BUILDING CORNER AND PROVIDE VERTICAL EXPANSION JOINTS IN ACCORDANCE WITH DETAILS 1/RSD-2 AND 2/RSD-2 AND SPECIFICATIONS.

R8 PROVIDE NEW SEALANT AT EXPANSION/CONTROL/CONSTRUCTION/PANEL JOINT IN ACCORDANCE WITH DETAIL RSD-10 AND SPECIFICATIONS.

R9 PROVIDE NEW SEALANT AT EXISTING CRACK IN MASONRY OR CONCRETE WALL IN ACCORDANCE WITH DETAIL RSD-9 AND SPECIFICATIONS PER UNIT PRICE AND ALLOWANCE.

R10 PROVIDE NEW SEALANT AT ALL GLAZING JOINTS IN WINDOW SYSTEM IN ACCORDANCE WITH DETAILS RSD-11 AND RSD-12 AND SPECIFICATIONS.

R11 PROVIDE NEW SEALANT AND BACKER ROD AT ALL PERIMETER JOINTS AROUND WINDOW OR DOOR SYSTEM IN ACCORDANCE WITH DETAIL RSD-13 AND SPECIFICATIONS.

R12 PROVIDE PATCH REPAIR AT DELAMINATED AREAS OF CONCRETE OR PRECAST WALL IN ACCORDANCE WITH DETAIL RSD-4 AND SPECIFICATIONS PER UNIT PRICE AND ALLOWANCE. SPECIFIC REPAIRS AND LOCATIONS TO BE DETERMINED BY ARCHITECT UPON ACCESS TO WALL.

R13 PROVIDE CRACK INJECTION REPAIR AT CRACKS IN CONCRETE/PRECAST WALL IN ACCORDANCE WITH DETAIL RSD-5 AND SPECIFICATIONS PER UNIT PRICE AND ALLOWANCE. SPECIFIC REPAIRS AND LOCATIONS TO BE DETERMINED BY ARCHITECT UPON ACCESS TO WALL.

R14 PROVIDE PARTIAL DEPTH PATCH OR DUTCHMAN REPAIR (≤ 1 SF) IN ACCORDANCE WITH SPECIFICATIONS PER UNIT PRICE AND ALLOWANCE. SPECIFIC REPAIRS AND LOCATIONS TO BE DETERMINED BY ARCHITECT UPON ACCESS TO WALL.

R15 REVISE EXISTING OPENING AND REPLACE EXISTING WINDOWS WITH NEW ALUMINUM FRAME WINDOWS WITH INSULATED GLASS IN ACCORDANCE WITH DETAIL RSD-14 AND SPECIFICATIONS. NEW WINDOWS TO MATCH EXISTING IN FRAME COLOR, SIZE AND CONFIGURATION. NEW WINDOW SYSTEM TO HAVE THERMALLY-BROKEN SUB-SILL OR SILL RECEPTOR WITH END DAMS AND WEEPS.

R16 CLEAN AND PREPARE CONCRETE SURFACES AT DESIGNATED AREAS ON DRAWINGS AND APPLY AN ELASTOMERIC COATING IN ACCORDANCE WITH SPECIFICATIONS.

R17 CLEAN AND PREPARE LIMESTONE/BRICK MASONRY SURFACES AT DESIGNATED AREAS ON DRAWINGS AND APPLY AN CLEAR PENETRATING SEALER IN ACCORDANCE WITH SPECIFICATIONS.

R18 PROVIDE A THOROUGH RESTORATION CLEANING OF MASONRY SURFACES AT DESIGNATED AREAS ON DRAWINGS IN ACCORDANCE WITH SPECIFICATIONS.

R19 SCRAPE AND PAINT EXPOSED STEEL AT DESIGNATED AREAS ON DRAWING IN ACCORDANCE WITH SPECIFICATIONS.

R20 SEAL ALL PENETRATIONS AT DESIGNATED AREAS ON DRAWINGS.

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RESTORATION NOTES

WATER TREATMENT PLANT
 CITY OF ANN ARBOR
 919 SUNSET RD. ANN ARBOR, MI 48103

REVISIONS / ADDENDA:

SCALE: N.T.S.

APPROVED BY: C.A.H.

DRAWN BY: R.M.K.F.

DATE: NOVEMBER 2018

PROJECT NUMBER: T18074

DRAWING NUMBER: E-0

Building	Elevation	R1-TP (SF)	R1-BR (SF)	R1.1-TP (SF)	R1.1-BR (SF)	R2-TP (SF)	R2-BR (SF)	R2.1-TP (SF)	R2.1-BR (SF)	R3 (LF)	R4 (LF)	R5 (LF)	R6 (LF)	R7 (LF)	R8 (LF)	R9 (LF)	R10 (LF)	R11 (LF)	R12 (SF)	R13 (LF)	R14 (SF)	R15 (SF)	R16 (SF)	R17 (SF)	R18 (SF)	R19 (SF)	R20
SCREEN WALL	North	-	-	100	50	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10	-	-	-	-	626	-	INCLUDED
	West	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	189	-	INCLUDED
	South	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-	-	-	-	21	-	INCLUDED
	East	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	INCLUDED
	TOTAL	0	0	100	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10	0	0	0	0	836	0
CONTROL ROOM	West	243	20	100	10	131	10	-	-	-	-	62	-	-	-	10	-	-	2	5	-	-	-	-	695	-	INCLUDED
	North	-	-	-	-	-	10	-	-	-	-	53	-	-	-	5	-	-	-	-	-	-	-	-	-	-	INCLUDED
	Partial North	56	10	25	10	114	-	-	-	-	-	12	-	-	24	-	-	-	-	-	-	-	-	-	-	-	INCLUDED
	East	-	-	-	-	252	20	-	-	-	-	62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	INCLUDED
	TOTAL	299	30	125	20	497	40	0	0	0	0	189	0	0	24	15	0	0	2	5	0	0	0	0	0	695	0
TOWER	South	415	200	200	350	235	200	-	-	-	-	38	47	55	-	10	219	223	-	-	-	-	-	-	1775	-	INCLUDED
	West	218	100	150	300	235	50	-	-	-	-	38	16	-	-	10	80	68	-	-	-	-	-	-	1374	-	INCLUDED
	North	415	200	200	350	235	50	-	-	-	-	38	19	21	-	10	90	114	-	-	-	-	-	-	1225	-	INCLUDED
	East	122	100	50	200	136	50	-	-	-	-	22	-	-	-	5	-	-	-	-	-	-	-	-	270	-	INCLUDED
	TOTAL	1170	600	600	1200	841	350	0	0	0	0	136	82	76	0	35	389	405	0	0	0	0	0	0	0	4644	0
PENTHOUSE	North	114	0	100	100	-	-	-	-	-	-	4	-	-	5	20	30	-	-	2	-	-	-	114	359	-	INCLUDED
	West	143	0	100	100	-	-	-	-	-	-	6	-	-	5	32	25	-	-	4	-	-	-	143	447	-	INCLUDED
	South	114	200	-	-	-	-	-	-	-	-	6	-	-	5	32	25	-	-	2	-	-	-	114	359	-	INCLUDED
	East	147	0	100	50	-	-	-	-	-	-	-	-	-	5	-	-	-	-	4	-	-	-	147	312	-	INCLUDED
	TOTAL	518	200	300	250	0	0	0	0	0	0	16	0	0	20	84	80	0	0	12	0	0	0	518	1477	0	0
FILTER GALLERY	South	-	-	300	100	-	-	200	50	-	-	-	98	-	26	10	537	437	-	-	-	-	-	-	2252	-	INCLUDED
	North	1484	100	100	50	435	50	-	-	93	100	-	84	-	26	10	660	534	10	20	-	-	-	-	3142	-	INCLUDED
	Partial West 1	338	20	-	-	129	10	-	-	-	30	-	9	-	-	-	60	34	-	-	-	-	-	-	464	-	INCLUDED
	Partial West 2	-	-	20	5	-	-	-	-	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	INCLUDED
	TOTAL	1822	120	420	155	564	60	200	50	93	130	0	191	0	64	20	1257	1005	10	20	0	0	0	0	5858	0	0
CLERESTORY	South	-	-	-	-	-	-	-	-	-	-	-	-	-	15	10	715	418	10	-	-	165	798	-	-	-	INCLUDED
	North	-	-	-	-	-	-	-	-	-	-	-	-	-	15	10	715	418	10	-	-	165	798	-	-	-	INCLUDED
	West	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	2	-	-	-	60	-	-	-	INCLUDED
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	30	22	1430	836	22	0	0	330	1656	0	0	0	0
CARBON HOUSE	North	285	20	-	-	-	-	-	-	-	-	-	5	26	-	10	29	20	-	-	-	-	-	-	-	-	INCLUDED
	East	32	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	INCLUDED
	West	32	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	INCLUDED
	TOTAL	349	40	0	0	0	0	0	0	0	0	0	5	26	0	10	29	20	0	0	0	0	0	0	0	0	0
CARBON HOUSE ALT (Alternate Bid Item No. 4)	South	202	20	-	-	-	-	-	-	-	-	-	5	26	-	5	29	35	-	-	-	-	-	-	-	-	INCLUDED
	East	159	50	-	-	-	-	-	-	-	-	-	23	-	-	10	115	184	-	-	-	-	-	-	-	-	INCLUDED
	West	159	50	-	-	-	-	-	-	-	-	-	19	-	-	10	172	150	-	-	-	-	-	-	-	-	INCLUDED
TOTAL	520	120	0	0	0	0	0	0	0	0	0	47	26	0	25	316	369	0	0	0	0	0	0	0	0	0	
RAPID MIX	North	-	-	50	10	-	-	-	-	-	-	-	4	-	15	-	-	14	-	-	-	-	-	-	-	-	INCLUDED
	South	-	-	50	10	-	-	-	-	-	-	-	8	-	27	-	-	21	-	-	-	-	-	-	-	-	INCLUDED
	East	-	-	25	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	INCLUDED
	West	-	-	100	20	-	-	-	-	-	-	-	15	-	13	-	47	54	-	-	-	-	-	-	-	-	INCLUDED
	TOTAL	0	0	225	45	0	0	0	0	0	0	0	27	0	55	0	47	89	0	0	0	0	0	0	0	0	0

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QUANTITY SUMMARY – CORE BUILDINGS

WATER TREATMENT PLANT
CITY OF ANN ARBOR
919 SUNSET RD. ANN ARBOR, MI 48103

REVISIONS / ADDENDA:

SCALE:

N.T.S.

APPROVED BY:

C.A.H.

DRAWN BY:

R.M.K.F.

DATE:

NOVEMBER 2018

PROJECT NUMBER:

T18074

DRAWING NUMBER:

E-0.1

Building	Elevation	R1-TP (SF)	R1-BR (SF)	R1.1-TP (SF)	R1.1-BR (SF)	R2-TP (SF)	R2-BR (SF)	R2.1-TP (SF)	R2.1-BR (SF)	R3 (LF)	R4 (LF)	R5 (LF)	R6 (LF)	R7 (LF)	R8 (LF)	R9 (LF)	R10 (LF)	R11 (LF)	R12 (SF)	R13 (LF)	R14 (SF)	R15 (SF)	R16 (SF)	R17 (SF)	R18 (SF)	R19 (SF)	R20
ADMINISTRATION	Partial East 1	-	-	-	-	-	-	-	-	-	-	-	-	-	72	-	-	-	-	-	-	-	-	-	-	-	-
	Partial East 2	-	-	-	-	-	-	-	-	-	-	-	-	-	218	-	-	-	-	-	-	-	-	-	-	-	-
	Partial North 1	-	-	-	-	-	-	-	-	-	-	-	-	-	553	-	-	-	-	-	-	-	-	-	-	-	-
	Partial North 2	-	-	-	-	-	-	-	-	-	-	-	-	-	115	-	-	16	-	-	-	-	-	-	-	-	-
	West	-	-	-	-	-	-	-	-	-	-	-	-	-	821	10	-	-	-	-	10	-	-	-	-	-	-
	South	-	-	-	-	-	-	-	-	-	-	-	-	-	23	-	-	-	-	-	-	-	-	-	-	-	-
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	1802	10	0	16	0	0	10	0	0	0	0	0	0
WHS	South	-	-	-	-	-	-	-	-	-	-	-	-	-	402	-	-	-	-	-	-	-	-	-	-	-	-
	East	-	-	-	-	-	-	-	-	-	-	-	-	-	339	-	-	-	-	-	-	-	-	-	-	-	-
	North	-	-	-	-	-	-	-	-	-	-	-	-	-	260	-	-	-	-	-	-	-	-	-	-	-	-
		TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	1001	0	0	0	0	0	0	0	0	0	0	0	0
FILTER PRESS	West	-	-	-	-	-	-	-	-	-	-	-	-	-	712	5	-	18	5	10	5	-	-	-	-	-	INCLUDED
	East	-	-	50	10	-	-	-	-	-	-	-	26	-	792	5	38	110	5	10	5	-	-	-	-	48	INCLUDED
	South	-	-	25	5	-	-	-	-	-	-	-	4	-	36	5	-	18	5	10	5	-	-	-	-	-	INCLUDED
	North	-	-	50	10	-	-	-	-	-	-	-	12	-	503	5	-	-	5	10	5	-	-	-	-	-	INCLUDED
		TOTAL	0	0	125	25	0	0	0	0	0	0	42	0	2043	20	38	146	20	40	20	0	0	0	0	48	0
CALCINER	West	-	-	-	-	-	-	-	-	-	-	-	-	-	251	5	-	-	5	10	5	-	-	-	-	-	INCLUDED
	North	-	-	50	10	-	-	-	-	-	-	-	-	-	258	5	-	-	5	10	5	-	-	-	-	-	INCLUDED
	South	-	-	25	5	-	-	-	-	-	-	-	-	-	524	5	-	52	5	10	5	-	-	-	-	-	INCLUDED
	East	-	-	20	10	-	-	-	-	-	-	-	-	-	587	5	-	144	5	10	5	-	-	-	-	30	INCLUDED
		TOTAL	0	0	95	25	0	0	0	0	0	0	0	0	1620	20	0	196	20	40	20	0	0	0	0	30	0



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QUANTITY SUMMARY – EAST ADDITION BUILDINGS

WATER TREATMENT PLANT
 CITY OF ANN ARBOR
 919 SUNSET RD. ANN ARBOR, MI 48103

REVISIONS / ADDENDA:

SCALE:

N.T.S.

APPROVED BY:

C.A.H.

DRAWN BY:

R.M.K.F.

DATE:

NOVEMBER 2018

PROJECT NUMBER:

T18074

DRAWING NUMBER:

E-0.2

Building	Elevation	R1-TP (SF)	R1-BR (SF)	R1.1-TP (SF)	R1.1-BR (SF)	R2-TP (SF)	R2-BR (SF)	R2.1-TP (SF)	R2.1-BR (SF)	R3 (LF)	R4 (LF)	R5 (LF)	R6 (LF)	R7 (LF)	R8 (LF)	R9 (LF)	R10 (LF)	R11 (LF)	R12 (SF)	R13 (LF)	R14 (SF)	R15 (SF)	R16 (SF)	R17 (SF)	R18 (SF)	R19 (SF)	R20	
EQ BUILDING	North	-	-	-	-	-	-	-	-	-	-	-	-	-	86	-	-	-	-	-	-	-	-	-	-	-	-	INCLUDED
	East	-	-	-	-	-	-	-	-	-	-	-	-	-	193	-	-	120	-	-	-	-	-	-	-	-	-	INCLUDED
	South	-	-	-	-	-	-	-	-	-	-	-	-	-	86	-	-	77	-	-	-	-	-	-	-	-	-	INCLUDED
	West	-	-	-	-	-	-	-	-	-	-	-	-	-	194	-	-	96	-	-	-	-	-	-	-	-	-	INCLUDED
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	559	0	0	293	0	0	0	0	0	0	0	0	0	0
OZONE BUILDING	West	-	-	-	-	-	-	-	-	-	-	-	-	-	721	-	-	119	-	-	-	-	-	-	-	-	-	INCLUDED
	South	-	-	-	-	-	-	-	-	-	-	-	-	-	343	-	-	72	-	-	-	-	-	-	-	-	-	INCLUDED
	East	-	-	-	-	-	-	-	-	-	-	-	-	-	721	-	-	137	-	-	-	-	-	-	-	-	-	INCLUDED
	North	-	-	-	-	-	-	-	-	-	-	-	-	-	373	-	-	98	-	-	-	-	-	-	-	-	-	INCLUDED
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	2158	0	0	426	0	0	0	0	0	0	0	0	0	0
MAINTENANCE	North	-	-	-	-	-	-	-	-	-	-	-	-	-	117	-	-	32	-	-	-	-	-	-	-	-	-	INCLUDED
	West	-	-	-	-	-	-	-	-	-	-	-	-	-	117	-	-	36	-	-	-	-	-	-	-	64	INCLUDED	
	South	-	-	-	-	-	-	-	-	-	-	-	-	-	218	-	-	32	-	-	-	-	-	-	-	-	INCLUDED	
	East	-	-	-	-	-	-	-	-	-	-	-	-	-	218	-	-	-	-	-	-	-	-	-	-	-	INCLUDED	
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	670	0	0	100	0	0	0	0	0	0	0	64	0	
RECARB	North	-	-	-	-	-	-	-	-	-	-	-	-	-	65	-	-	29	-	-	-	-	-	-	-	-	-	INCLUDED
	South	-	-	-	-	-	-	-	-	-	-	-	-	-	65	-	-	-	-	-	-	-	-	-	-	-	-	INCLUDED
	West	-	-	-	-	-	-	-	-	-	-	-	-	-	73	-	-	-	-	-	-	-	-	-	-	-	-	INCLUDED
	East	-	-	-	-	-	-	-	-	-	-	-	-	-	73	-	-	-	-	-	-	-	-	-	-	-	-	INCLUDED
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	276	0	0	29	0	0	0	0	0	0	0	0	0	0
GENERATOR	West	-	-	-	-	-	-	-	-	-	-	-	-	-	72	-	-	27	-	-	-	-	-	-	-	-	-	INCLUDED
	South	-	-	-	-	-	-	-	-	-	-	-	-	-	246	-	-	-	-	-	-	-	-	-	-	-	-	INCLUDED
	East	-	-	-	-	-	-	-	-	-	-	-	-	-	102	-	-	-	-	-	-	-	-	-	-	-	-	INCLUDED
	North	-	-	-	-	-	-	-	-	-	-	-	-	-	219	-	-	-	-	-	-	-	-	-	-	-	-	INCLUDED
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	639	0	0	27	0	0	0	0	0	0	0	0	0	0
AMMONIA	North	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	South	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	West	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	East	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

StructureTec
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QUANTITY SUMMARY – OUT BUILDINGS

WATER TREATMENT PLANT
CITY OF ANN ARBOR
919 SUNSET RD. ANN ARBOR, MI 48103

REVISIONS / ADDENDA:

SCALE:

N.T.S.

APPROVED BY:

C.A.H.

DRAWN BY:

R.M.K.F.

DATE:

NOVEMBER 2018

PROJECT NUMBER:

T18074

DRAWING NUMBER:

E-0.3

Building	Elevation	R1-TP (SF)	R1-BR (SF)	R1.1-TP (SF)	R1.1-BR (SF)	R2-TP (SF)	R2-BR (SF)	R2.1-TP (SF)	R2.1-BR (SF)	R3 (LF)	R4 (LF)	R5 (LF)	R6 (LF)	R7 (LF)	R8 (LF)	R9 (LF)	R10 (LF)	R11 (LF)	R12 (SF)	R13 (LF)	R14 (SF)	R15 (SF)	R16 (SF)	R17 (SF)	R18 (SF)	R19 (SF)	R20
BARTON PUMPING ST	West	-	-	25	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	East	-	-	25	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	South	-	-	25	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	North	-	-	25	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	TOTAL	0	0	100	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
INDUSTRIAL PUMPING ST	East	300	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	INCLUDED
	West	130	5	10	0	-	-	-	-	-	-	-	4	-	-	-	-	33	-	-	-	-	-	-	-	-	INCLUDED
	South	481	10	10	0	-	-	-	-	-	-	-	31	-	14	-	-	81	-	-	-	-	-	-	-	-	INCLUDED
	North	430	10	10	0	-	-	-	-	-	-	-	31	-	14	-	-	88	-	-	-	-	-	-	-	-	INCLUDED
	TOTAL	1341	30	30	0	0	0	0	0	0	0	0	66	0	28	0	0	202	0	0	0	0	0	0	0	0	0
NORTH CAMPUS PUMP ST	West	-	-	25	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	INCLUDED
	South	-	-	50	10	-	-	-	-	-	-	-	-	-	-	-	-	37	-	-	-	-	-	-	-	-	INCLUDED
	East	-	-	25	5	-	-	-	-	-	-	-	9	-	-	-	-	27	-	-	-	-	-	-	-	-	INCLUDED
	North	-	-	50	10	-	-	-	-	-	-	-	-	-	43	-	-	-	-	-	-	-	-	-	-	-	INCLUDED
	TOTAL	0	0	150	30	0	0	0	0	0	0	0	9	0	43	0	0	64	0	0	0	0	0	0	0	0	0
LIBERTY PUMP STATION	East	-	-	25	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	INCLUDED
	South	-	-	50	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	INCLUDED
	West	-	-	25	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	INCLUDED
	North	-	-	20	10	-	-	-	-	-	-	-	-	-	-	-	-	68	-	-	-	-	-	-	-	-	INCLUDED
	TOTAL	0	0	120	30	0	0	0	0	0	0	0	0	0	0	0	0	68	0	0	0	0	0	0	0	0	0
SUPERIOR PUMP STATION	East	-	-	-	-	-	-	-	-	-	-	-	-	-	34	-	-	40	5	10	-	-	520	-	-	-	INCLUDED
	North	-	-	-	-	-	-	-	-	-	-	-	-	-	109	-	-	-	5	10	-	-	1000	-	-	-	INCLUDED
	West	-	-	-	-	-	-	-	-	-	-	-	-	-	34	-	-	16	5	10	-	-	570	-	-	-	INCLUDED
	South	-	-	-	-	-	-	-	-	-	-	-	-	-	65	-	-	-	5	10	-	-	660	-	-	-	INCLUDED
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	242	0	0	56	20	40	0	0	2750	0	0	0	0

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QUANTITY SUMMARY – OUTSTATIONS

WATER TREATMENT PLANT
CITY OF ANN ARBOR
919 SUNSET RD. ANN ARBOR, MI 48103

REVISIONS / ADDENDA:

SCALE: N.T.S.

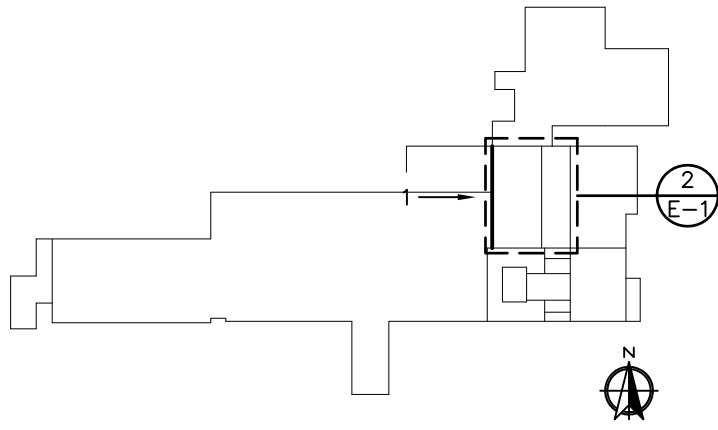
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DRAWN BY: R.M.K.F.

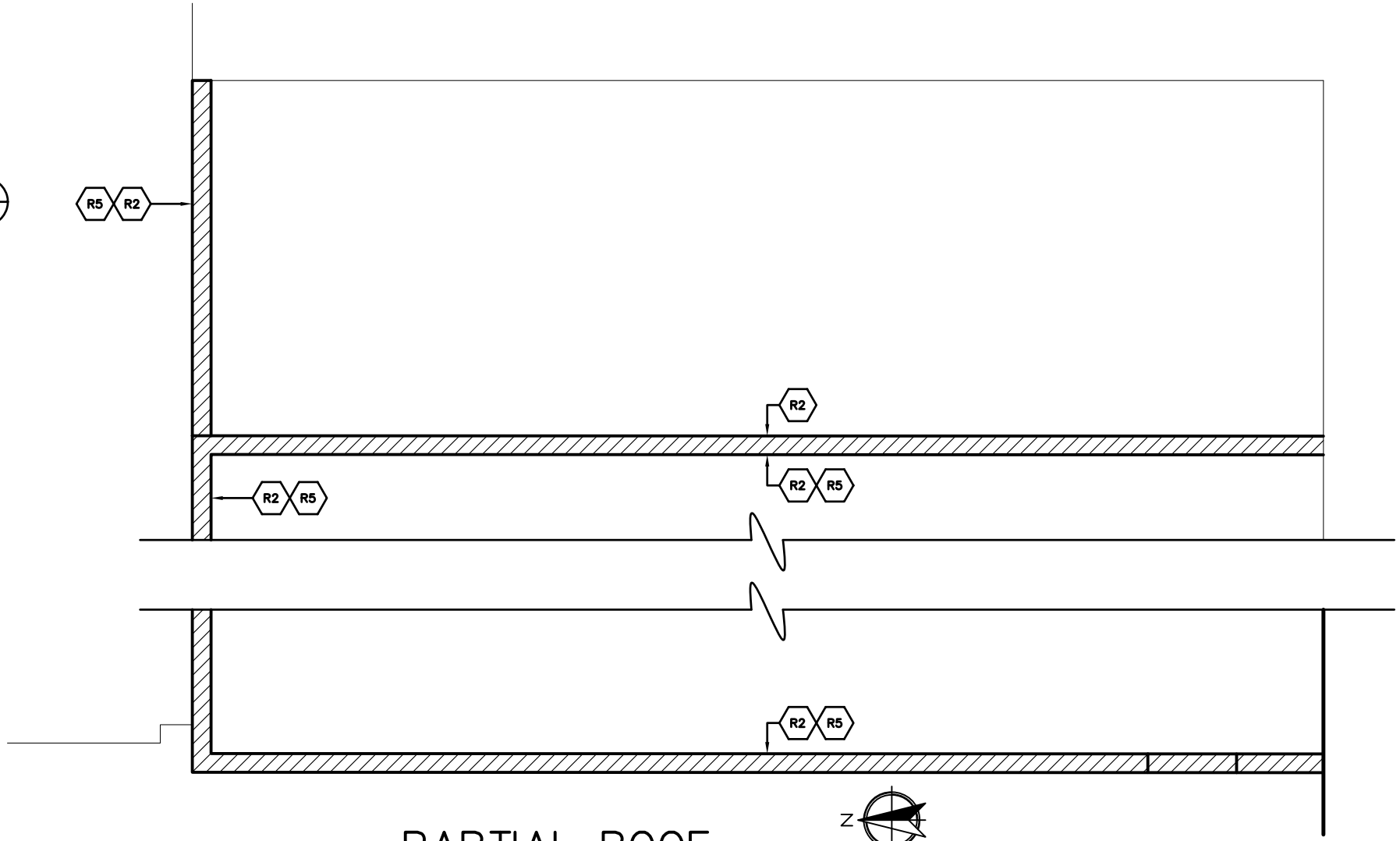
DATE: NOVEMBER 2018

PROJECT NUMBER: T18074

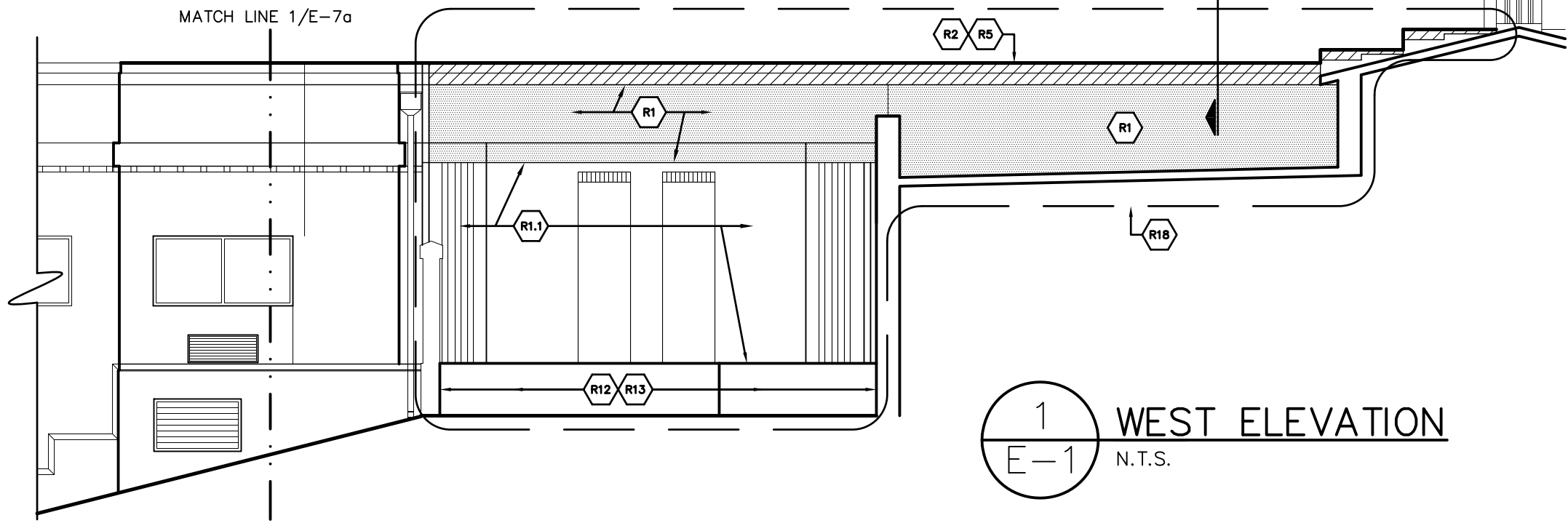
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KEY PLAN



2 PARTIAL ROOF PLAN - CONTROL ROOM
E-1 N.T.S.



1 WEST ELEVATION
E-1 N.T.S.

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ELEVATIONS - CONTROL ROOM

WATER TREATMENT PLANT
CITY OF ANN ARBOR
919 SUNSET RD. ANN ARBOR, MI 48103

REVISIONS / ADDENDA:

SCALE:

N.T.S.

APPROVED BY:

C.A.H.

DRAWN BY:

R.M.K.F.

DATE:

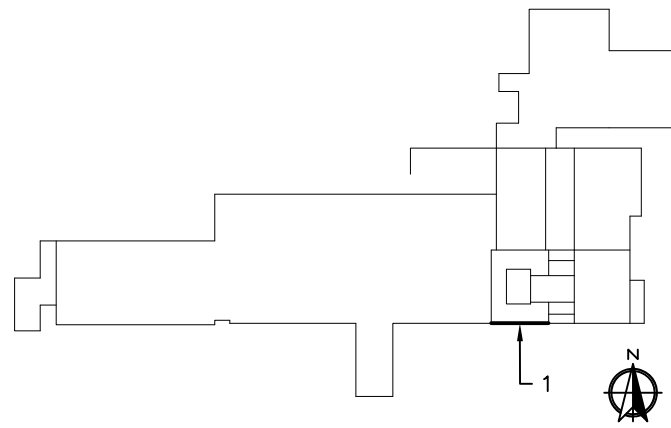
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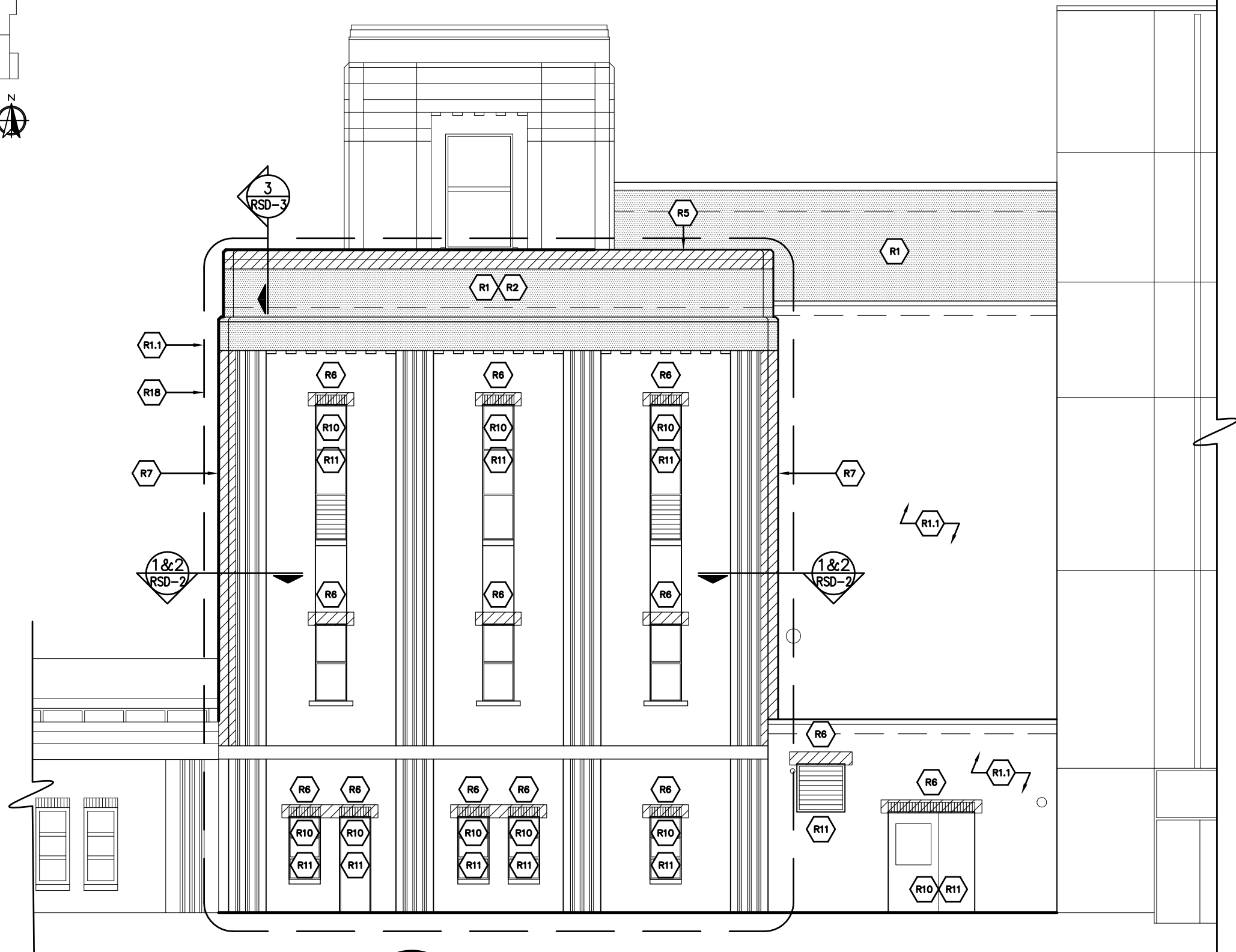
T18074

DRAWING NUMBER:

E-1



KEY PLAN

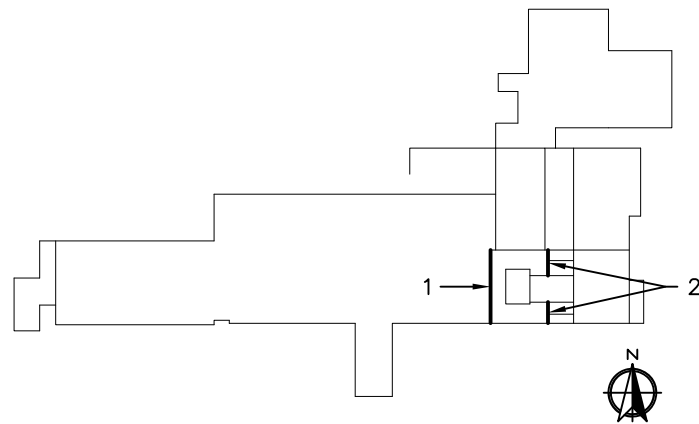


1
E-2a SOUTH ELEVATION
N.T.S.

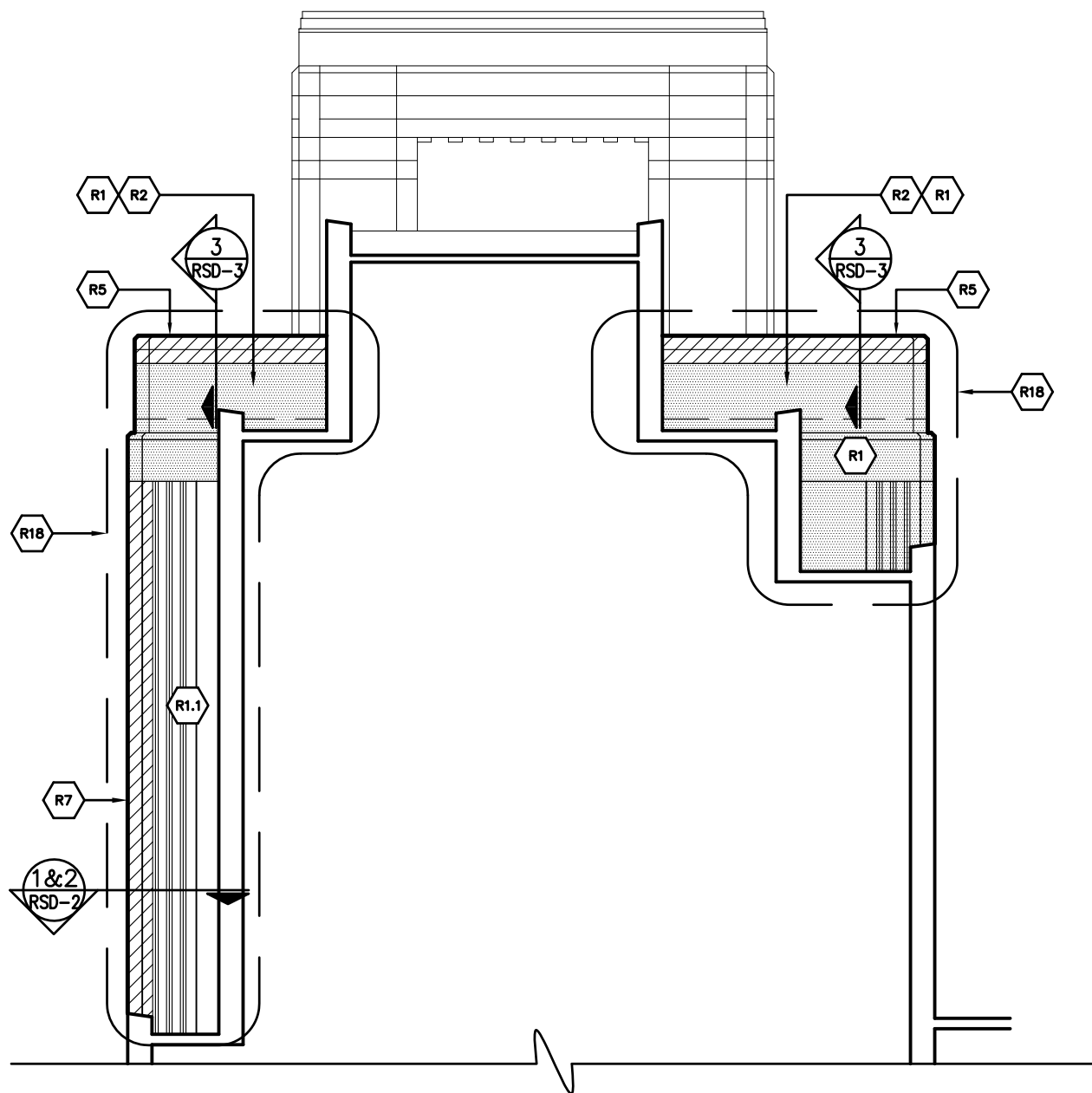
StructureTec
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ELEVATIONS - TOWER
 WATER TREATMENT PLANT
 CITY OF ANN ARBOR
 919 SUNSET RD. ANN ARBOR, MI 48103

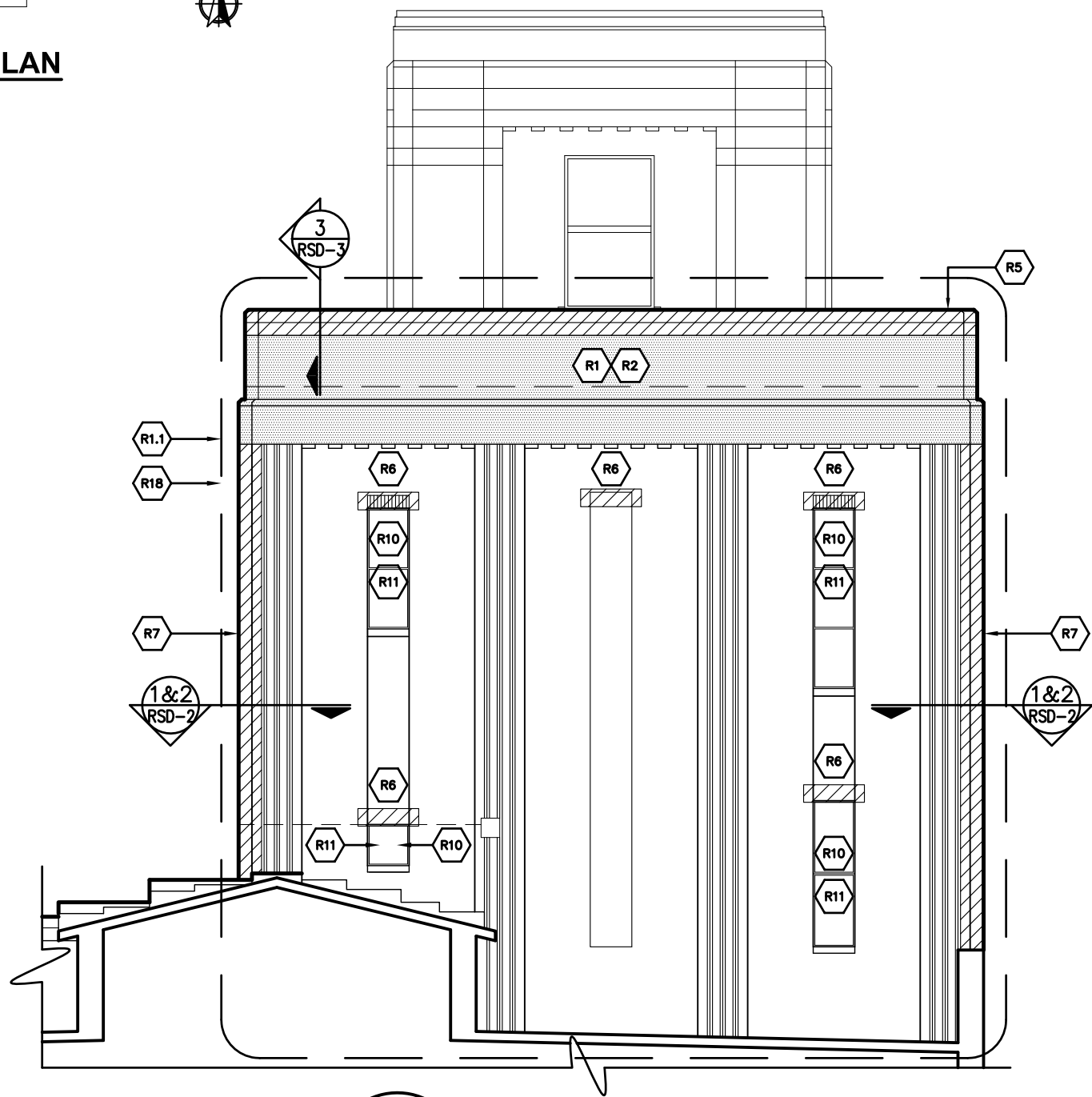
REVISIONS / ADDENDA:	
SCALE:	N.T.S.
APPROVED BY:	C.A.H.
DRAWN BY:	R.M.K.F.
DATE:	NOVEMBER 2018
PROJECT NUMBER:	T18074
DRAWING NUMBER:	E-2a



KEY PLAN



2 EAST ELEVATION
E-2b N.T.S.



1 WEST ELEVATION
E-2b N.T.S.

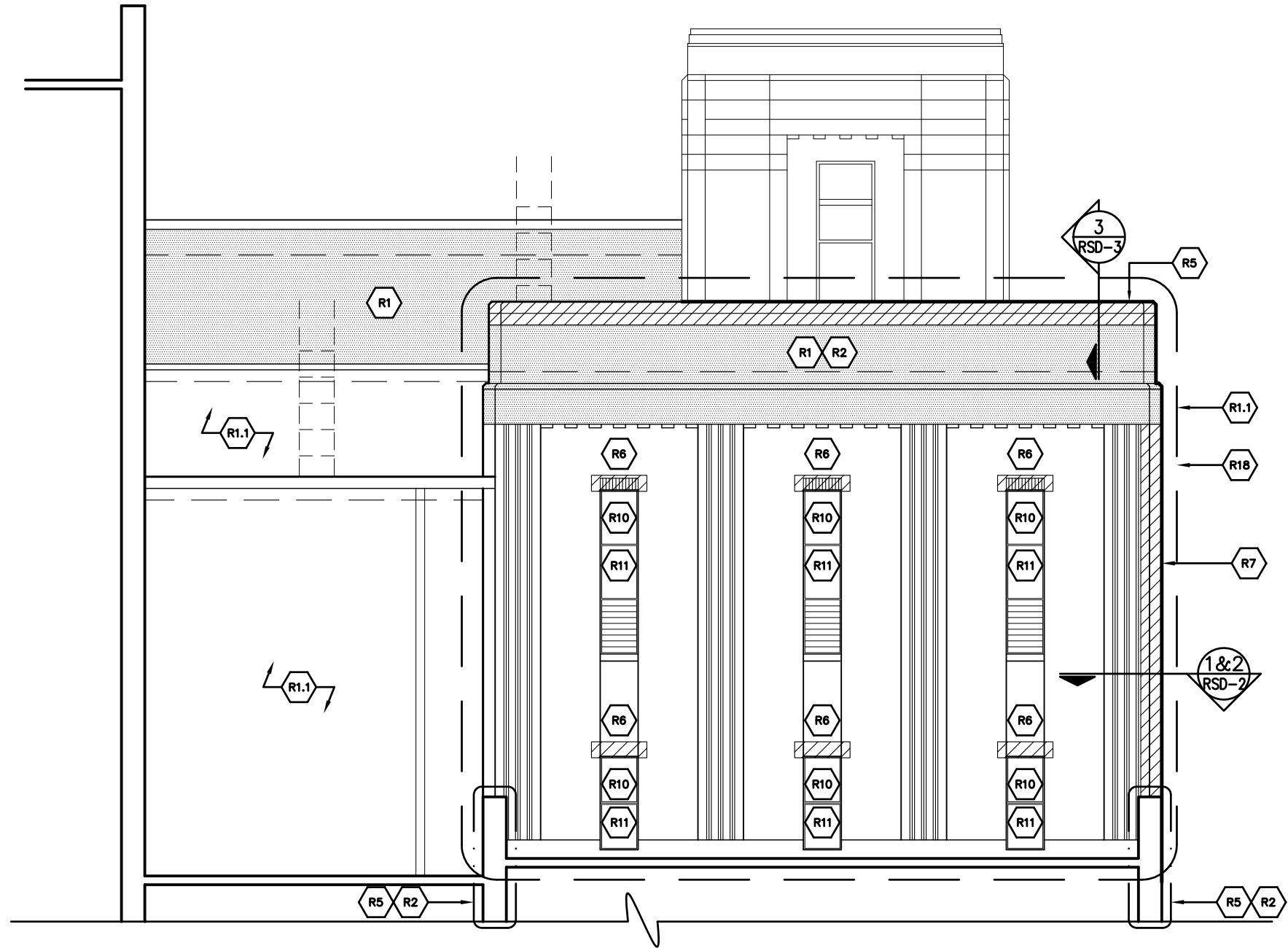
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ELEVATIONS - TOWER
 WATER TREATMENT PLANT
 CITY OF ANN ARBOR
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REVISIONS / ADDENDA:	
SCALE:	N.T.S.
APPROVED BY:	C.A.H.
DRAWN BY:	R.M.K.F.
DATE:	NOVEMBER 2018
PROJECT NUMBER:	T18074
DRAWING NUMBER:	E-2b



KEY PLAN



1
E-2c NORTH ELEVATION
N.T.S.

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ELEVATIONS - TOWER

WATER TREATMENT PLANT

CITY OF ANN ARBOR

919 SUNSET RD. ANN ARBOR, MI 48103

REVISIONS / ADDENDA:

SCALE:

N.T.S.

APPROVED BY:

C.A.H.

DRAWN BY:

R.M.K.F.

DATE:

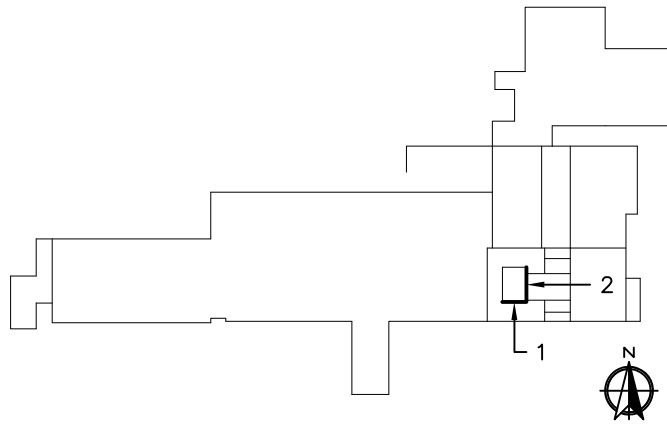
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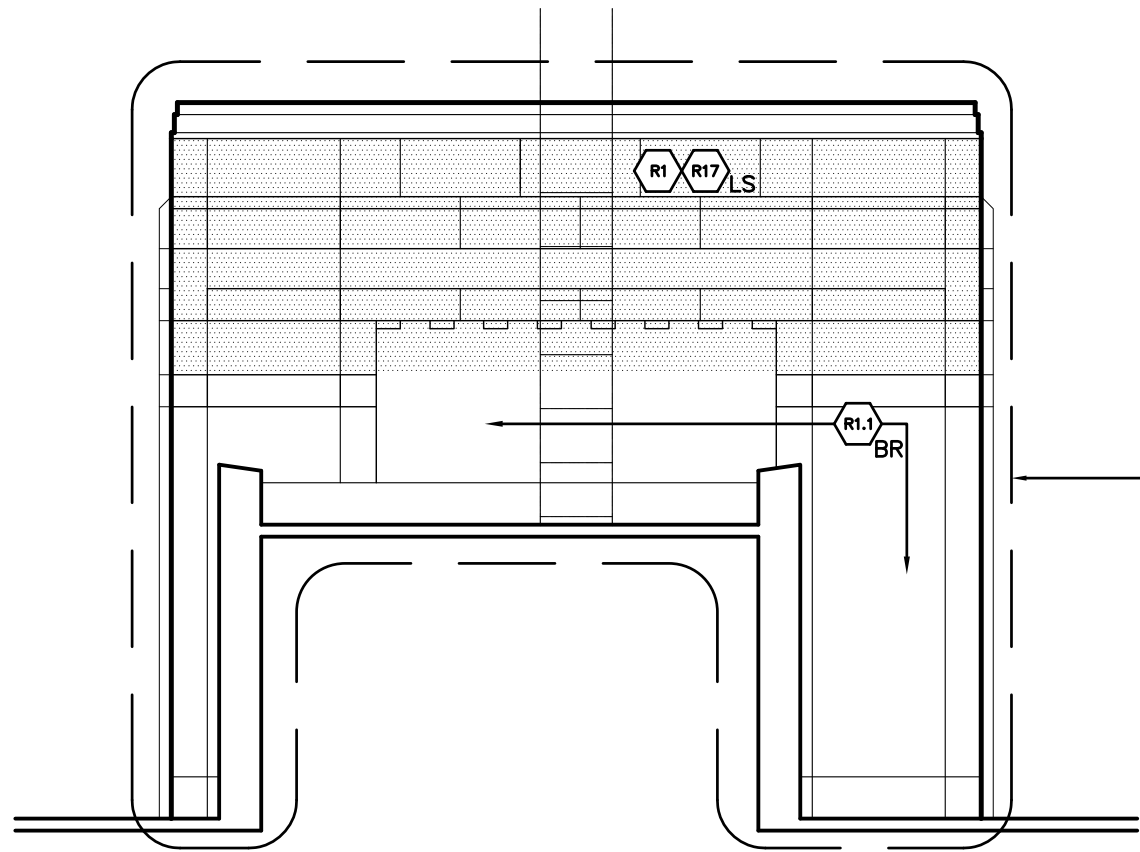
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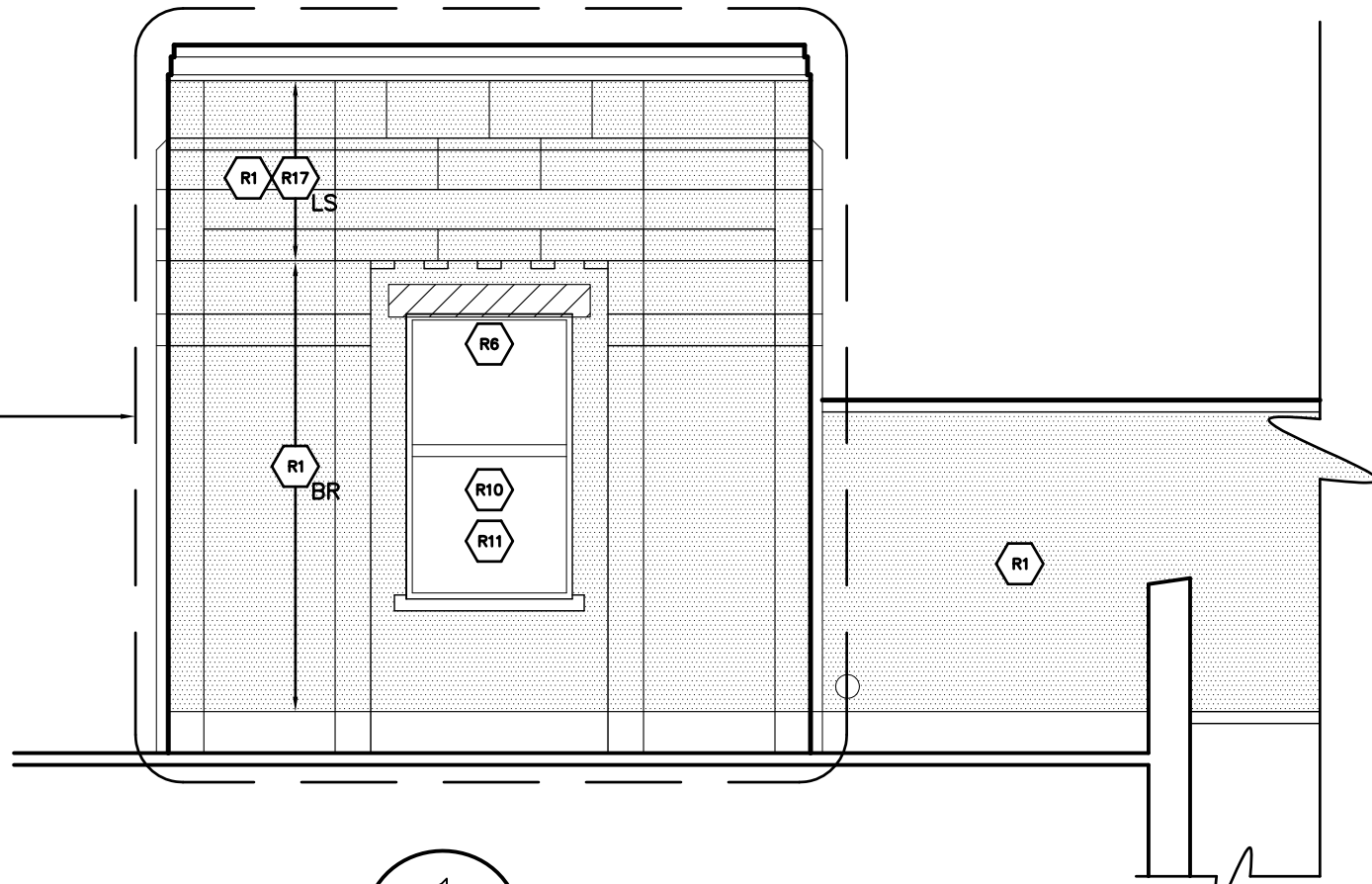
E-2c



KEY PLAN



2 EAST ELEVATION
E-3a N.T.S.



1 SOUTH ELEVATION
E-3a N.T.S.

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ELEVATIONS - TOWER PENTHOUSE

WATER TREATMENT PLANT
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REVISIONS / ADDENDA:

SCALE:

N.T.S.

APPROVED BY:

C.A.H.

DRAWN BY:

R.M.K.F.

DATE:

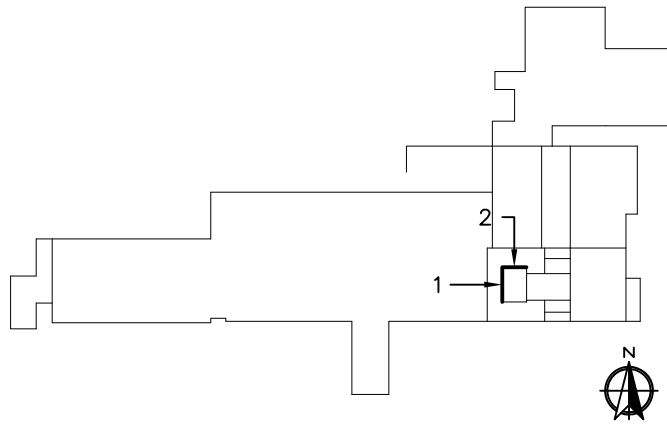
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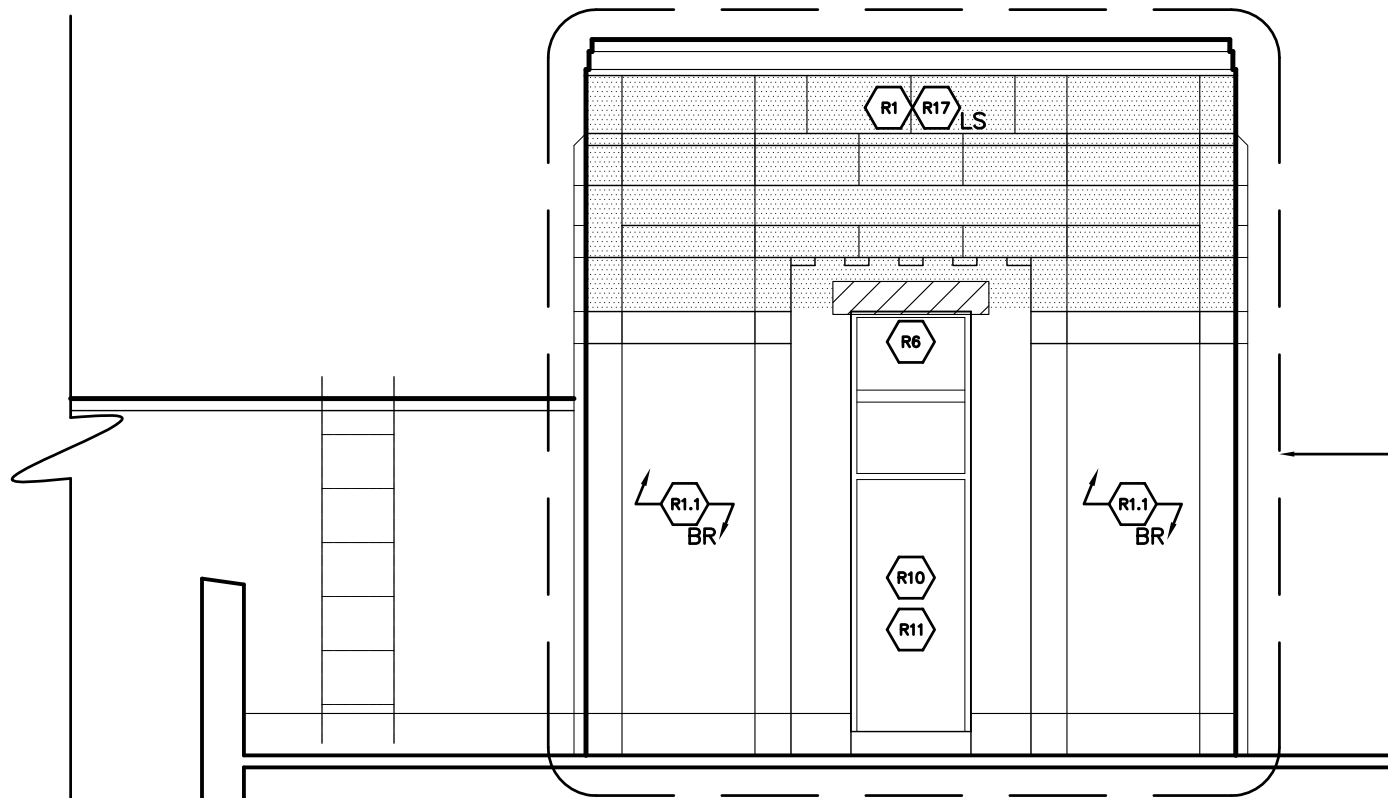
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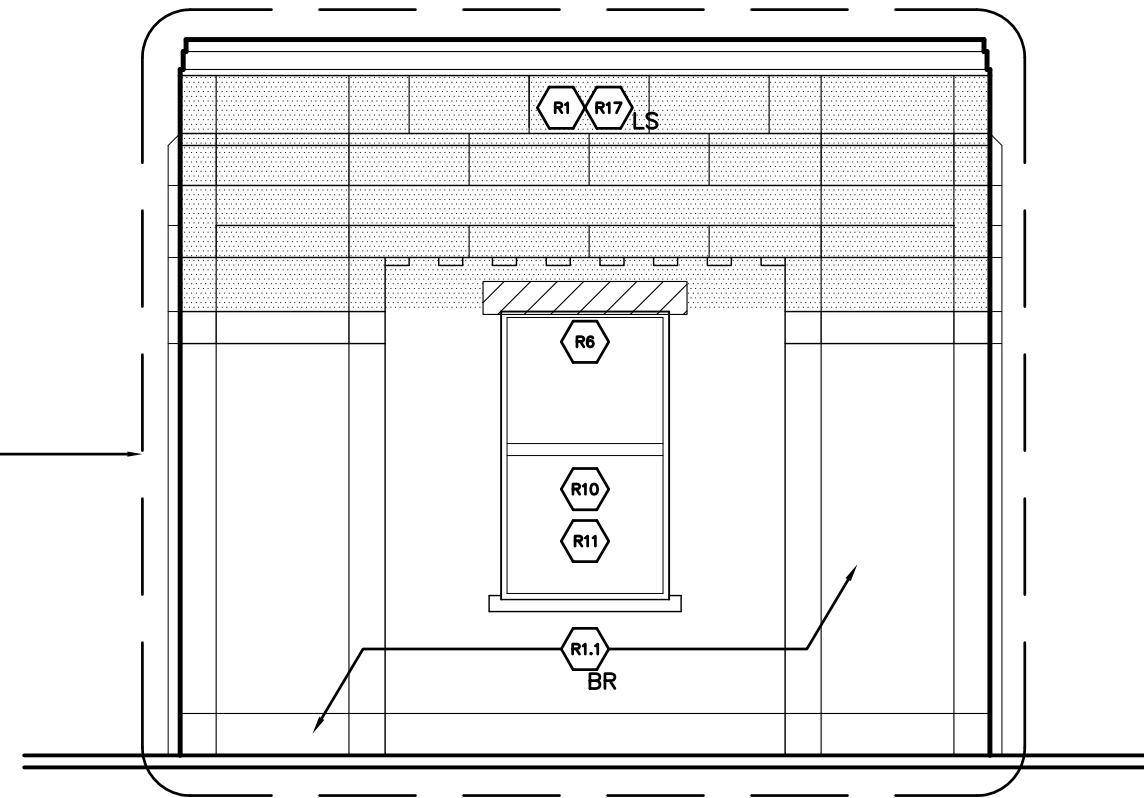
E-3a



KEY PLAN



2 NORTH ELEVATION
E-3b N.T.S.

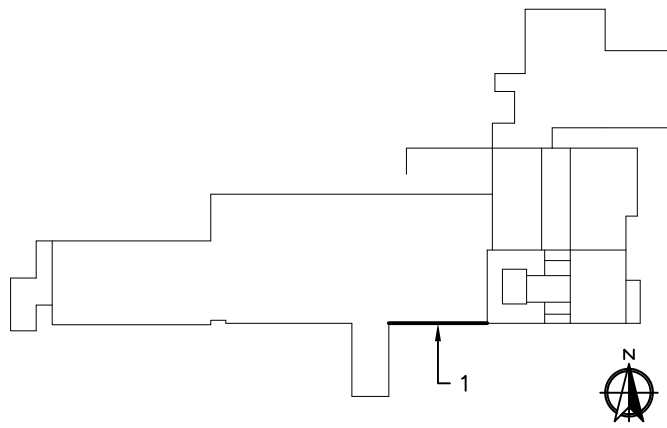


1 WEST ELEVATION
E-3b N.T.S.

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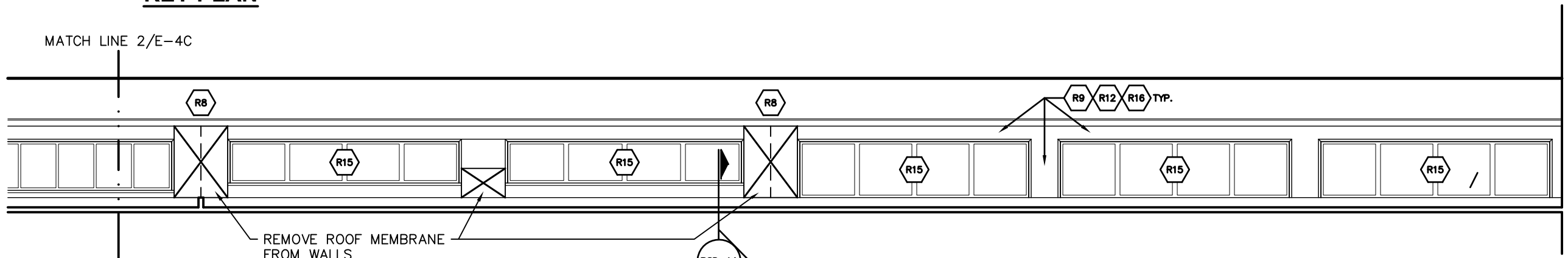
ELEVATIONS – TOWER PENTHOUSE
 WATER TREATMENT PLANT
 CITY OF ANN ARBOR
 919 SUNSET RD. ANN ARBOR, MI 48103

REVISIONS / ADDENDA:
SCALE:
N.T.S.
APPROVED BY:
C.A.H.
DRAWN BY:
R.M.K.F.
DATE:
NOVEMBER 2018
PROJECT NUMBER:
T18074
DRAWING NUMBER:
E-3b



KEY PLAN

MATCH LINE 2/E-4C

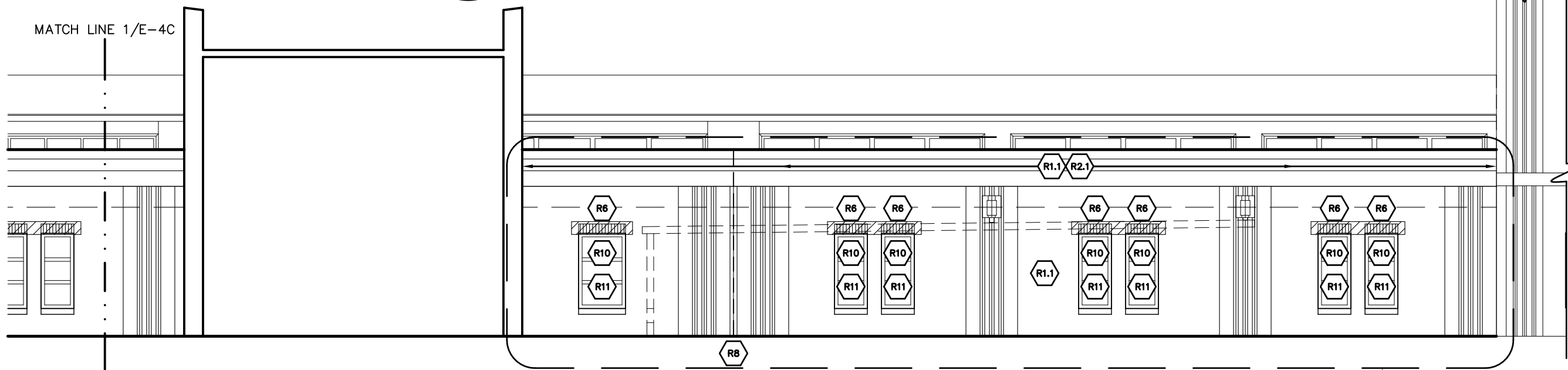


2
E-4a

PARTIAL SOUTH ELEVATION - CLERESTORY

N.T.S.

MATCH LINE 1/E-4C



1
E-4a

PARTIAL SOUTH ELEVATION

N.T.S.

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ELEVATIONS - FILTER GALLERY

WATER TREATMENT PLANT
CITY OF ANN ARBOR
919 SUNSET RD. ANN ARBOR, MI 48103

REVISIONS / ADDENDA:

SCALE:

N.T.S.

APPROVED BY:

C.A.H.

DRAWN BY:

R.M.K.F.

DATE:

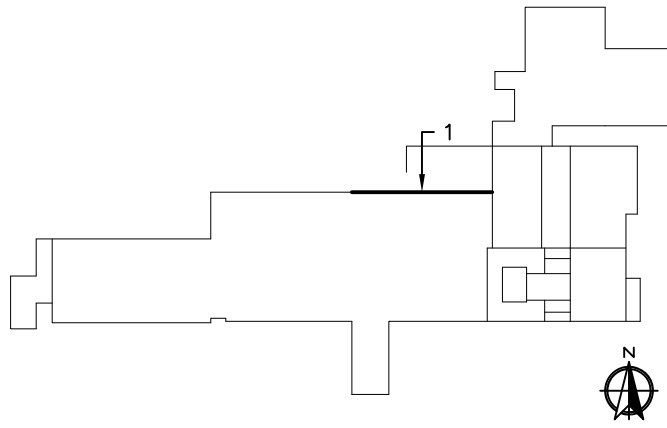
NOVEMBER 2018

PROJECT NUMBER:

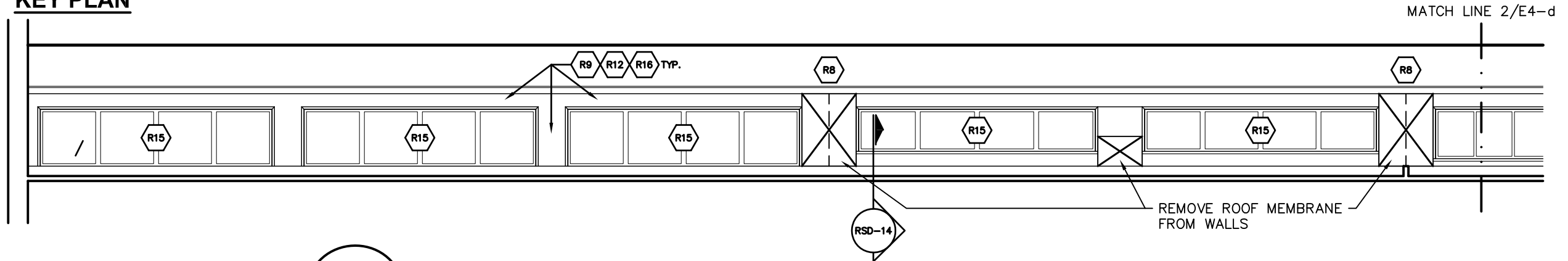
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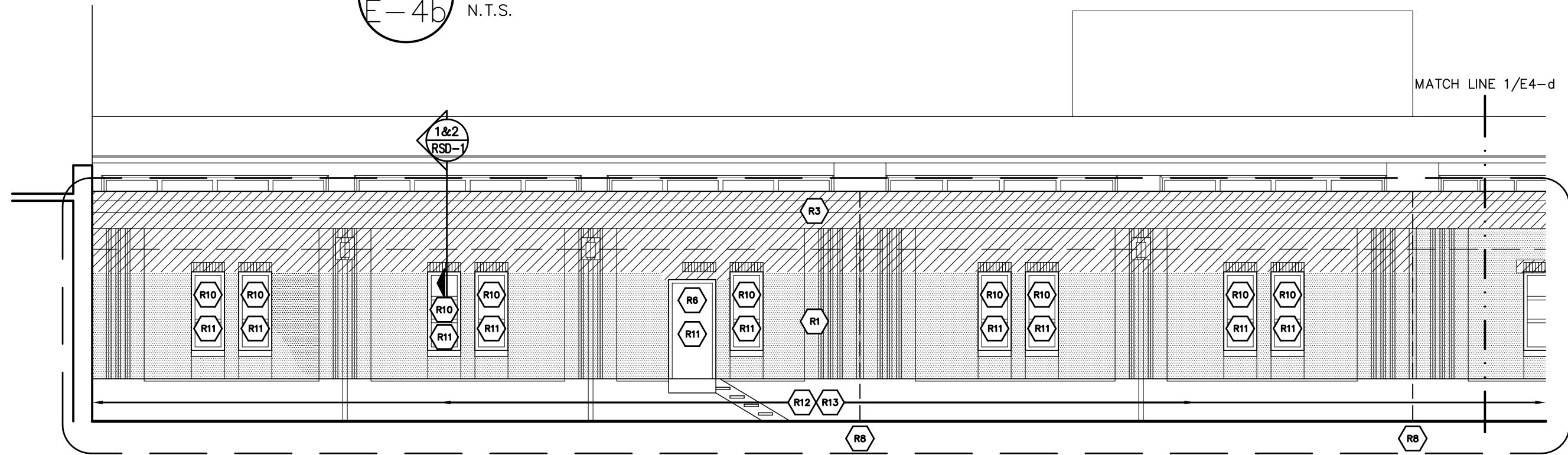
E-4a



KEY PLAN



2 PARTIAL NORTH ELEVATION - CLERESTORY
E-4b N.T.S.

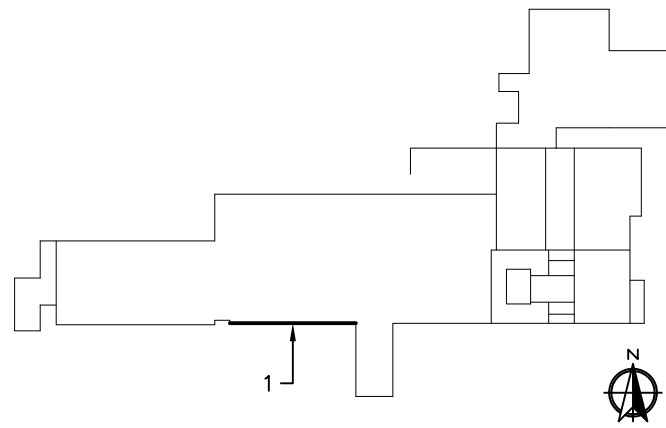


1 PARTIAL NORTH ELEVATION
E-4b N.T.S.

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ELEVATIONS - FILTER GALLERY
 WATER TREATMENT PLANT
 CITY OF ANN ARBOR
 919 SUNSET RD. ANN ARBOR, MI 48103

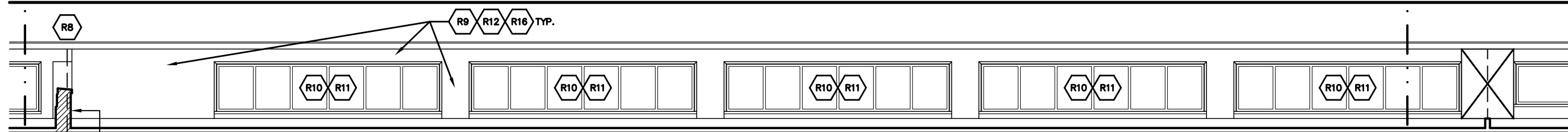
REVISIONS / ADDENDA:
SCALE:
N.T.S.
APPROVED BY:
C.A.H.
DRAWN BY:
R.M.K.F.
DATE:
NOVEMBER 2018
PROJECT NUMBER:
T18074
DRAWING NUMBER:
E-4b



KEY PLAN

MATCH LINE 2/E-4e

MATCH LINE 2/E-4a



REMOVE SECTION OF MASONRY PARAPET WALL TO BELOW LEVEL OF ROOF DECK; PROVIDE EXPANSION JOINT AT NEW ROOF SYSTEM (SEE ROOFING DRAWINGS)

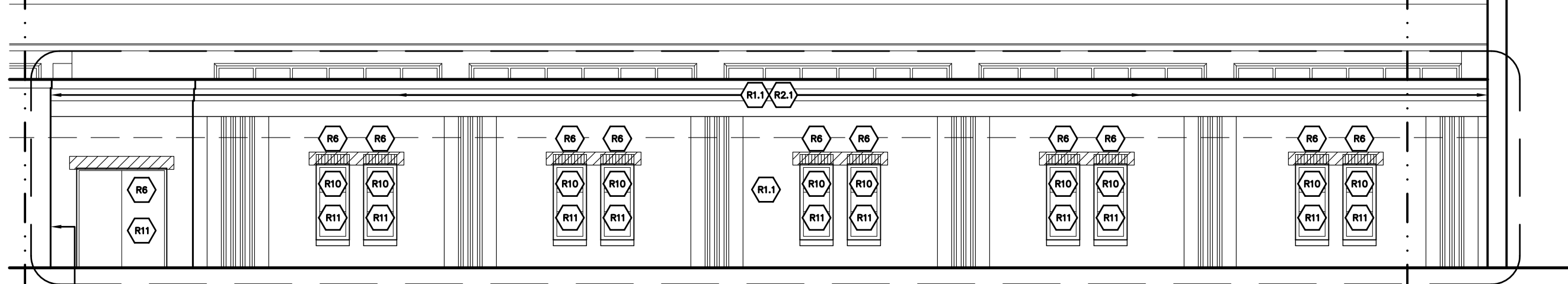
2
E-4c

PARTIAL SOUTH ELEVATION - CLERESTORY

N.T.S.

MATCH LINE 1/E-4e

MATCH LINE 1/E-4a



1
E-4c

PARTIAL SOUTH ELEVATION

N.T.S.

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ELEVATIONS - FILTER GALLERY

WATER TREATMENT PLANT
CITY OF ANN ARBOR
919 SUNSET RD. ANN ARBOR, MI 48103

REVISIONS / ADDENDA:

SCALE:

N.T.S.

APPROVED BY:

C.A.H.

DRAWN BY:

R.M.K.F.

DATE:

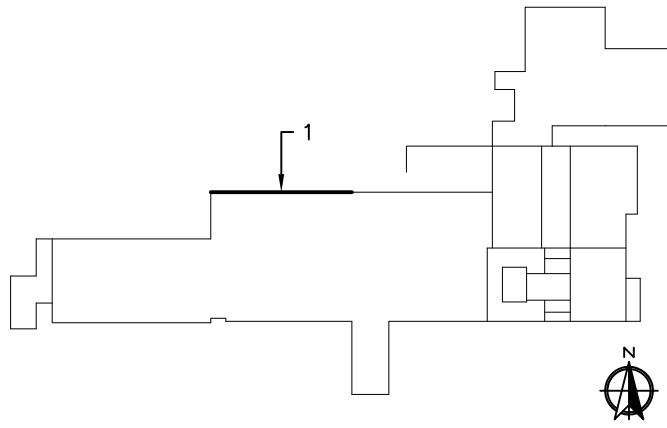
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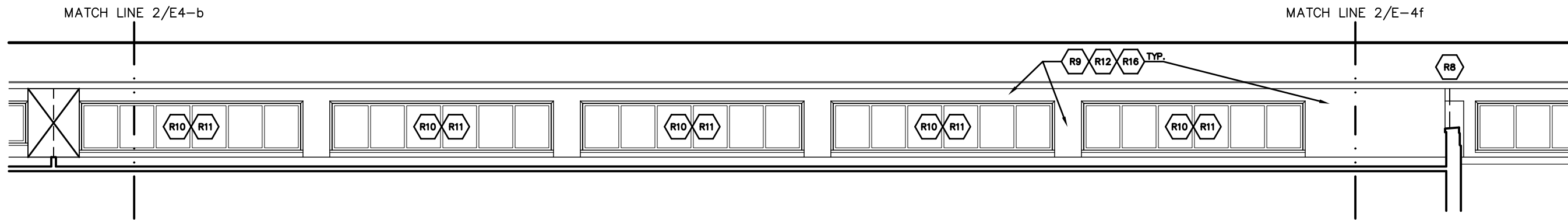
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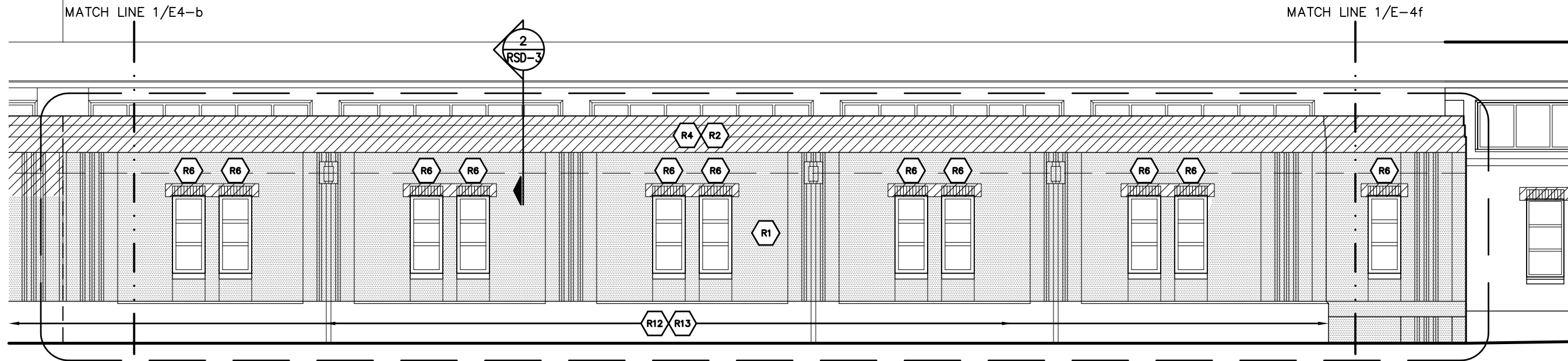
E-4c



KEY PLAN



2 PARTIAL NORTH ELEVATION - CLERESTORY
E-4d N.T.S.



1 PARTIAL NORTH ELEVATION
E-4d N.T.S.

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ELEVATIONS - FILTER GALLERY

WATER TREATMENT PLANT
 CITY OF ANN ARBOR
 919 SUNSET RD. ANN ARBOR, MI 48103

REVISIONS / ADDENDA:

SCALE:

N.T.S.

APPROVED BY:

C.A.H.

DRAWN BY:

R.M.K.F.

DATE:

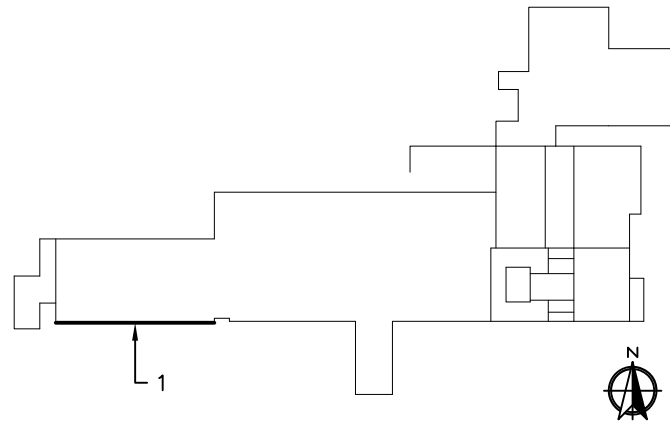
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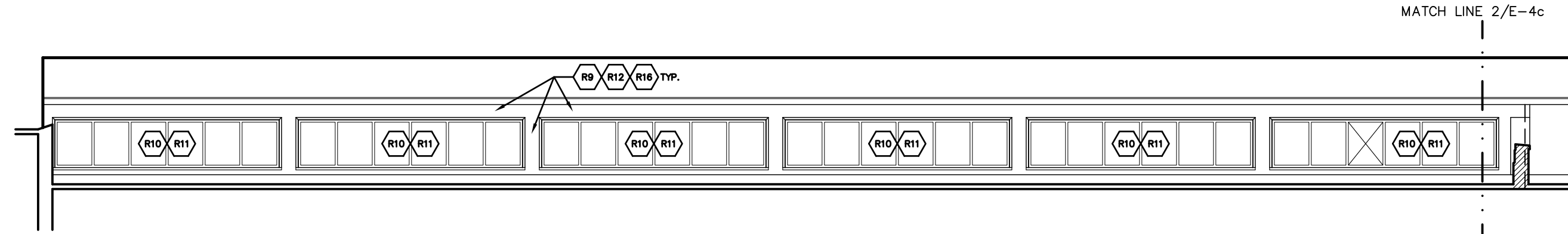
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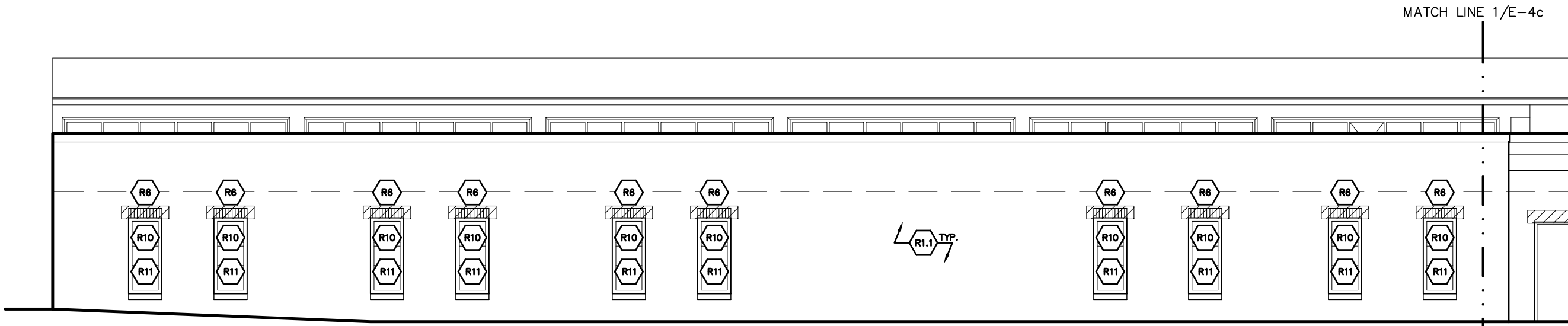
E-4d



KEY PLAN



2 PARTIAL SOUTH ELEVATION – CLERESTORY
E-4e N.T.S.



1 PARTIAL SOUTH ELEVATION
E-4e N.T.S.

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ELEVATIONS – FILTER GALLERY

WATER TREATMENT PLANT
 CITY OF ANN ARBOR
 919 SUNSET RD. ANN ARBOR, MI 48103

REVISIONS / ADDENDA:

SCALE:

N.T.S.

APPROVED BY:

C.A.H.

DRAWN BY:

R.M.K.F.

DATE:

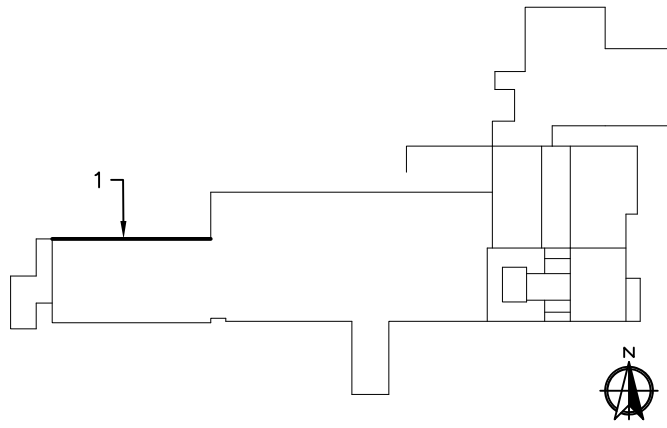
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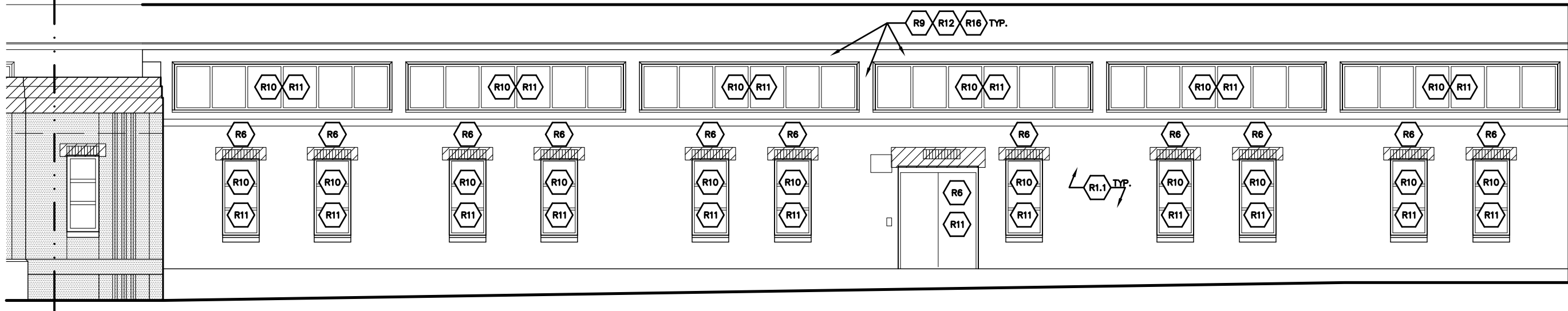
E-4e



KEY PLAN

MATCH LINE 2/E-4d

MATCH LINE 1/E-4d



1 PARTIAL NORTH ELEVATION
E-4f N.T.S.

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ELEVATIONS - FILTER GALLERY

WATER TREATMENT PLANT
CITY OF ANN ARBOR
919 SUNSET RD. ANN ARBOR, MI 48103

REVISIONS / ADDENDA:

SCALE:

N.T.S.

APPROVED BY:

C.A.H.

DRAWN BY:

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DATE:

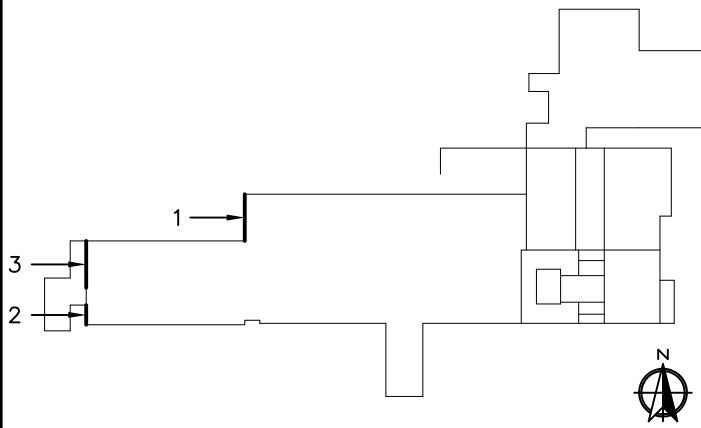
NOVEMBER 2018

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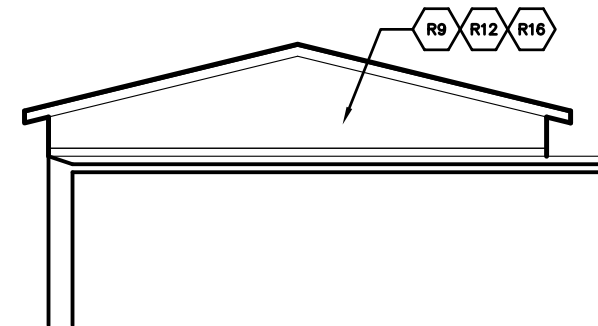
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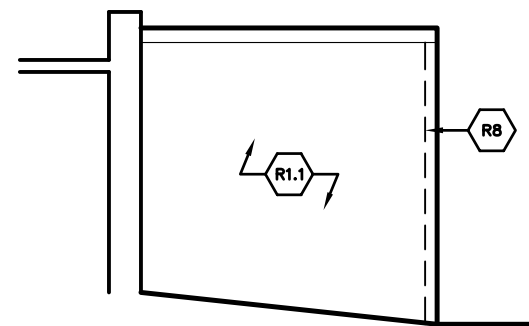
E-4f



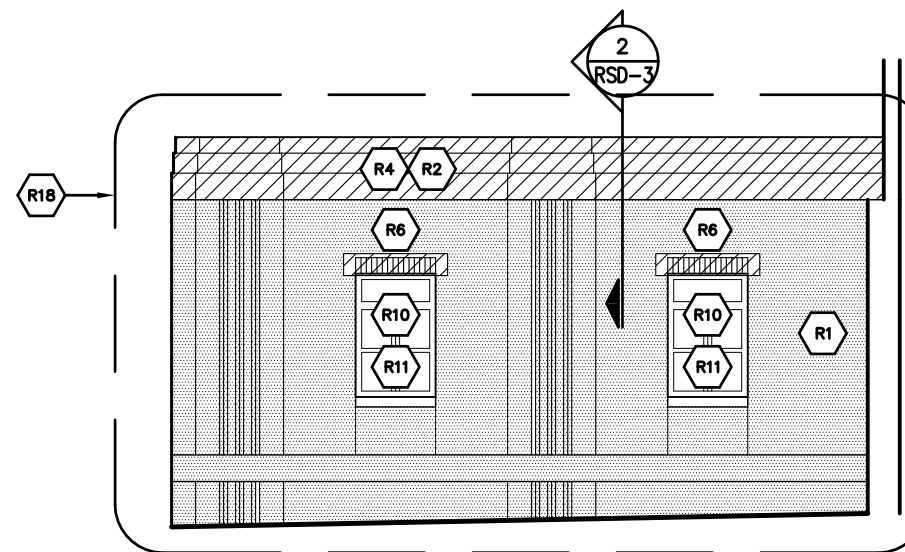
KEY PLAN



3 WEST ELEVATION - CLERESTORY
E-4g N.T.S.



2 PARTIAL WEST ELEV.
E-4g N.T.S.



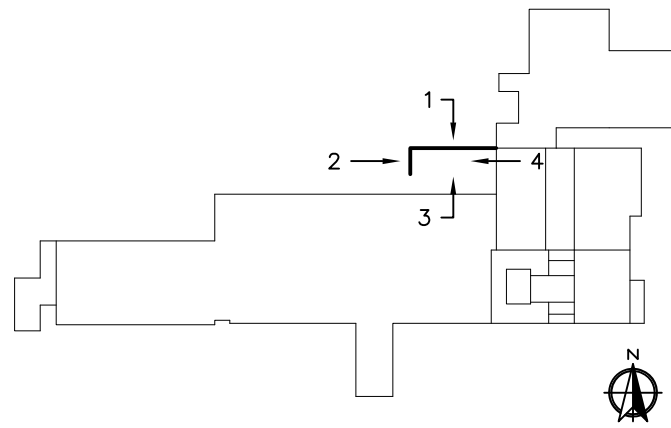
1 PARTIAL WEST ELEV.
E-4g N.T.S.

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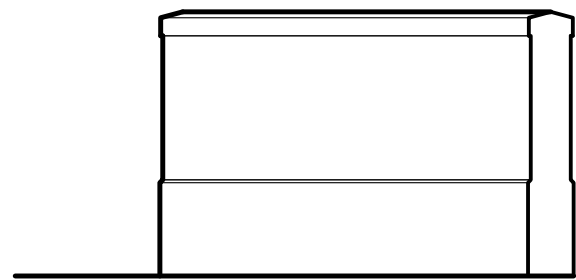
ELEVATIONS - FILTER GALLERY

WATER TREATMENT PLANT
 CITY OF ANN ARBOR
 919 SUNSET RD. ANN ARBOR, MI 48103

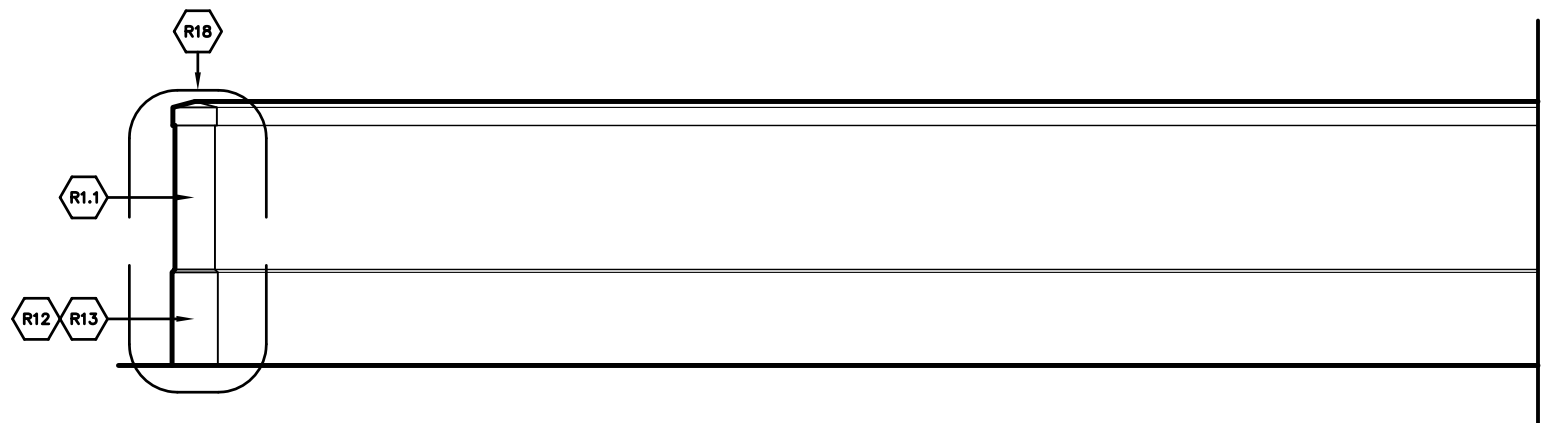
REVISIONS / ADDENDA:
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APPROVED BY:
C.A.H.
DRAWN BY:
R.M.K.F.
DATE:
NOVEMBER 2018
PROJECT NUMBER:
T18074
DRAWING NUMBER:
E-4g



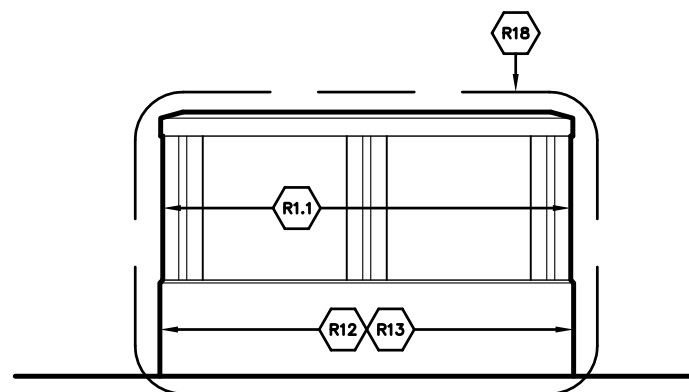
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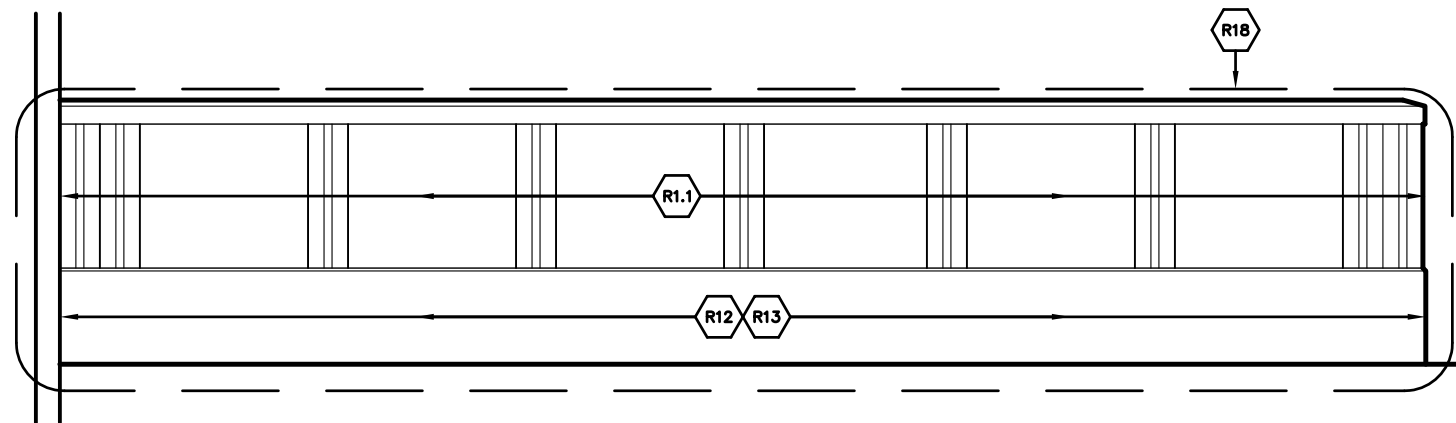
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E-4h N.T.S.



3 SOUTH ELEVATION – SCREEN WALL
E-4h N.T.S.



2 WEST ELEVATION – SCREEN WALL
E-4h N.T.S.



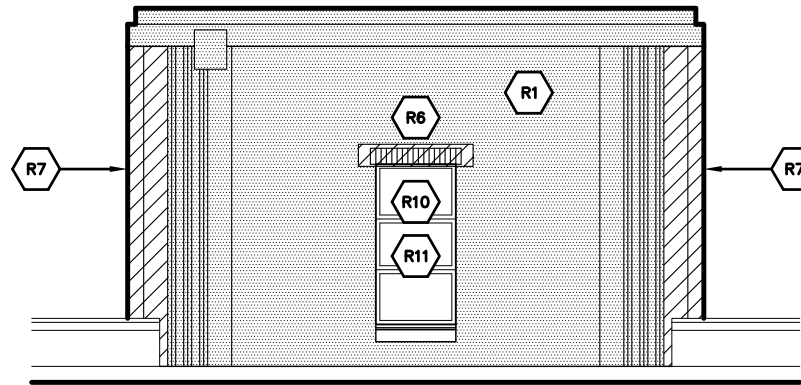
1 NORTH ELEVATION – SCREEN WALL
E-4h N.T.S.

StructureTec
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 4777 Campus Drive • Kalamazoo, MI 49008
 1121 Lake Cook Road, Ste C • Deerfield, IL 60015
 473 Airport Road, Ste 1 • Butler, PA 16002
 34119 W. Twelve Mile Road, Ste 270 • Farmington Hills, MI 48331

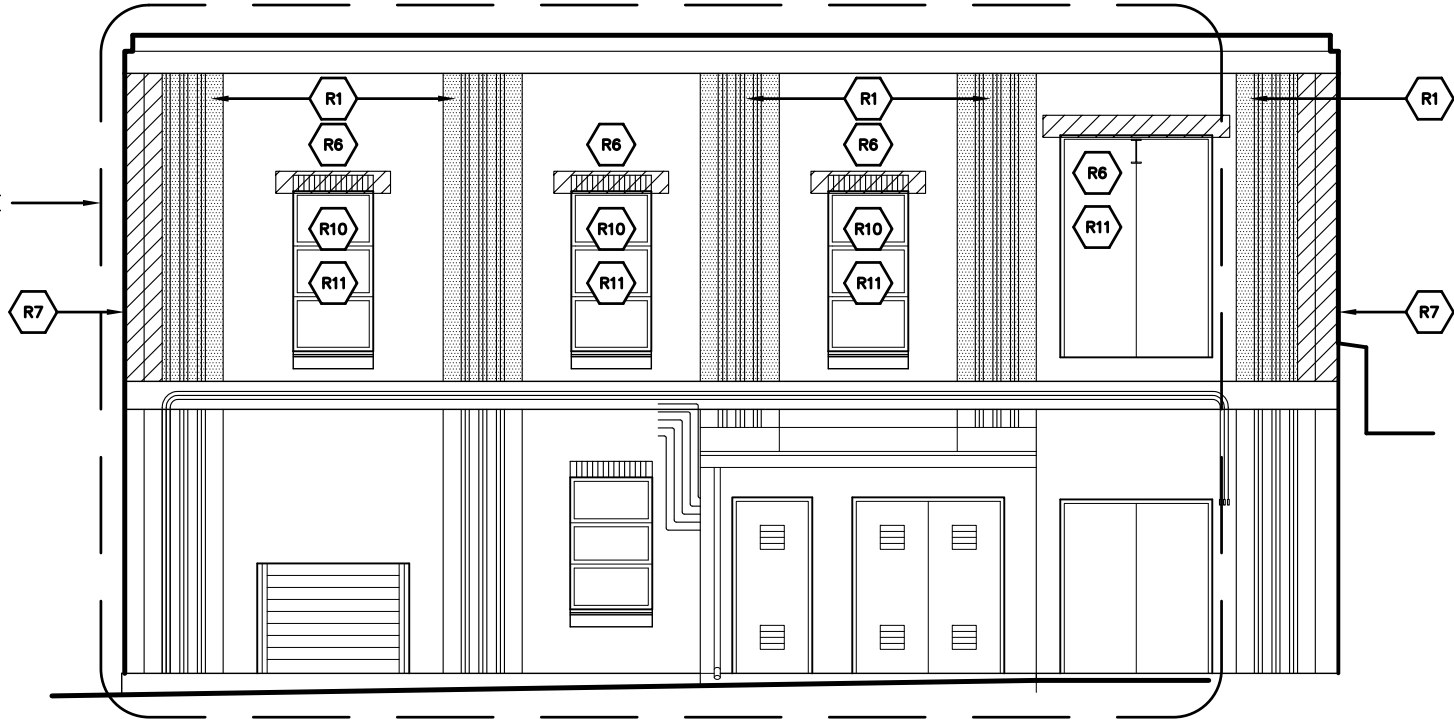
ELEVATIONS – FILTER GALLERY – SCREEN WALL

WATER TREATMENT PLANT
 CITY OF ANN ARBOR
 919 SUNSET RD. ANN ARBOR, MI 48103

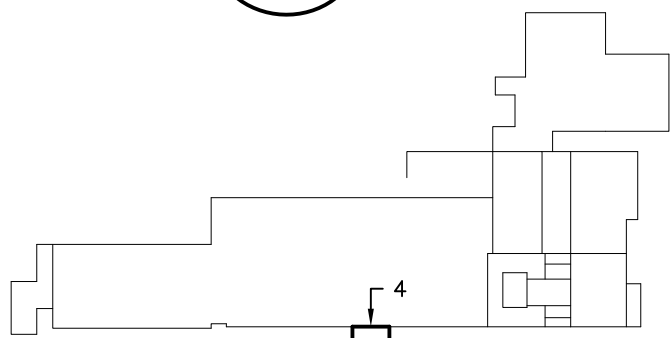
REVISIONS / ADDENDA:
SCALE:
N.T.S.
APPROVED BY:
C.A.H.
DRAWN BY:
R.M.K.F.
DATE:
NOVEMBER 2018
PROJECT NUMBER:
T18074
DRAWING NUMBER:
E-4h



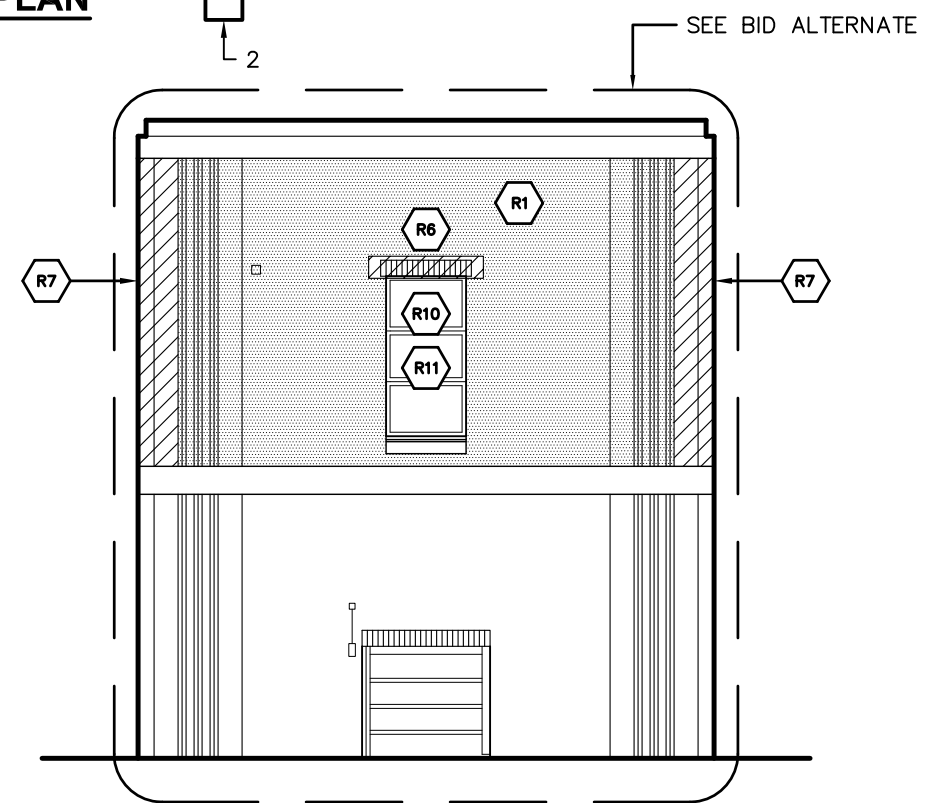
4 NORTH ELEVATION
E-5 N.T.S.



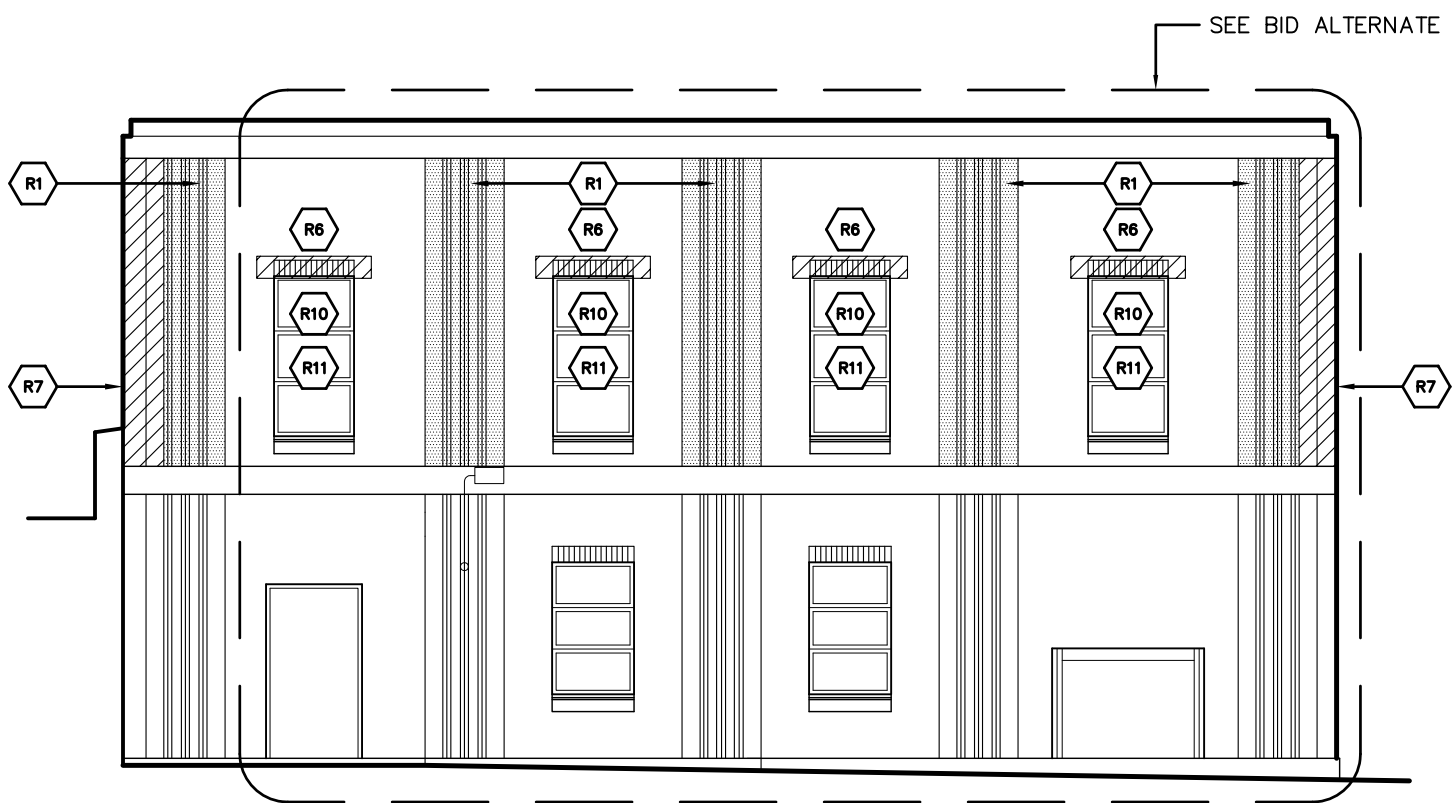
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E-5 N.T.S.



KEY PLAN



2 SOUTH ELEVATION
E-5 N.T.S.



1 WEST ELEVATION
E-5 N.T.S.

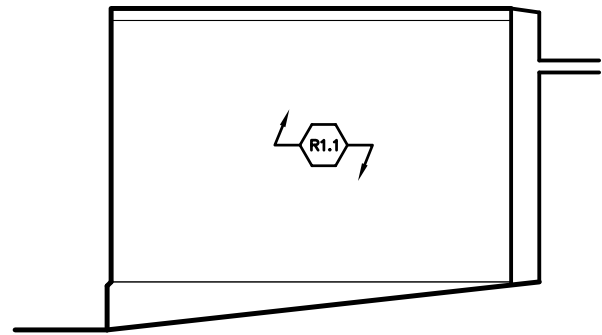
StructureTec
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ELEVATIONS - CARBON HOUSE
 WATER TREATMENT PLANT
 CITY OF ANN ARBOR
 919 SUNSET RD. ANN ARBOR, MI 48103

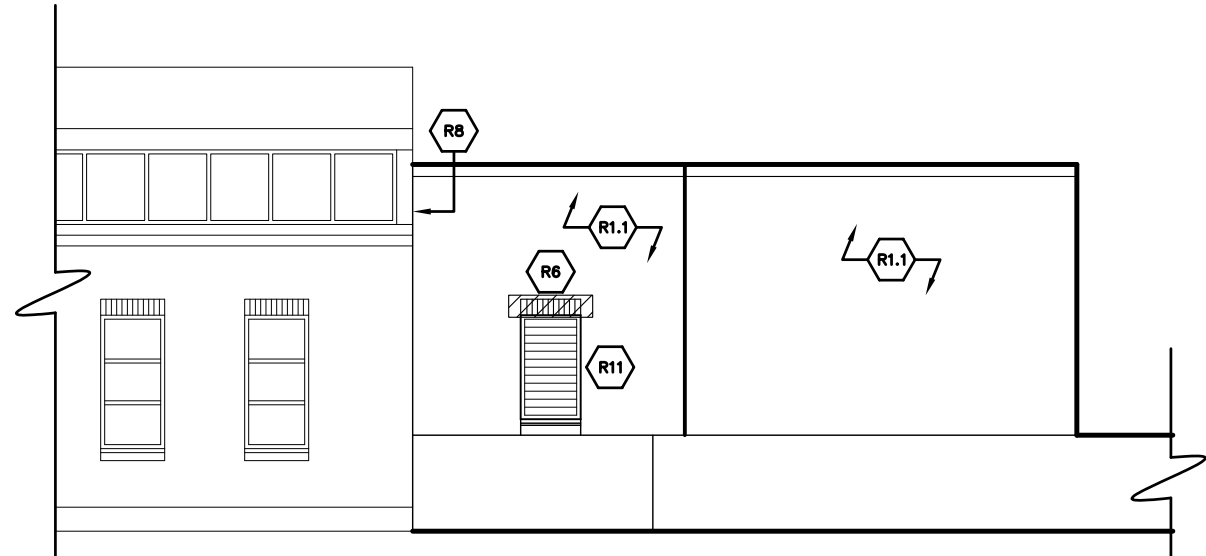
REVISIONS / ADDENDA:
SCALE:
N.T.S.
APPROVED BY:
C.A.H.
DRAWN BY:
R.M.K.F.
DATE:
NOVEMBER 2018
PROJECT NUMBER:
T18074
DRAWING NUMBER:
E-5



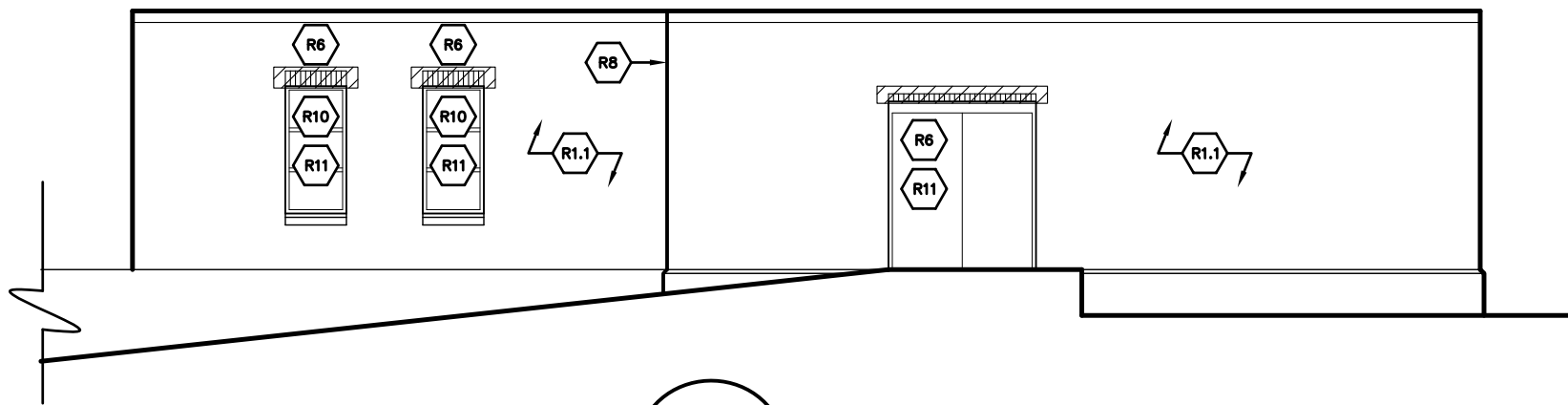
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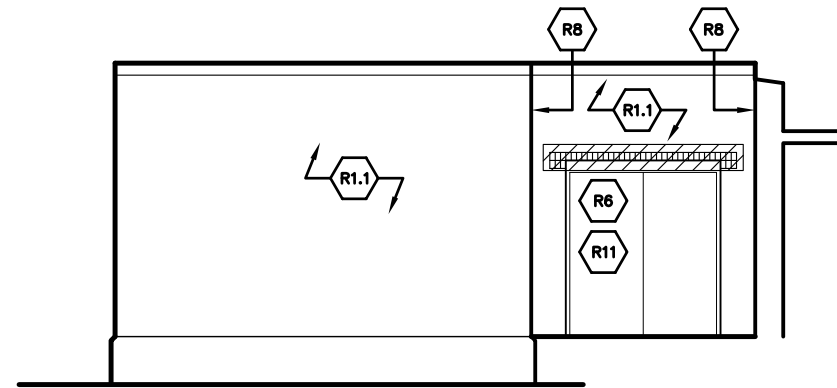
4 EAST ELEVATION
E-6 N.T.S.



3 NORTH ELEVATION
E-6 N.T.S.



2 WEST ELEVATION
E-6 N.T.S.



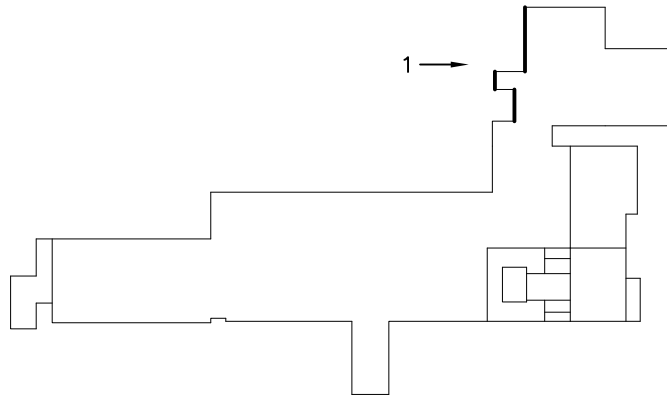
1 SOUTH ELEVATION
E-6 N.T.S.

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 1121 Lake Cook Road, Ste C • Deerfield, IL 60015
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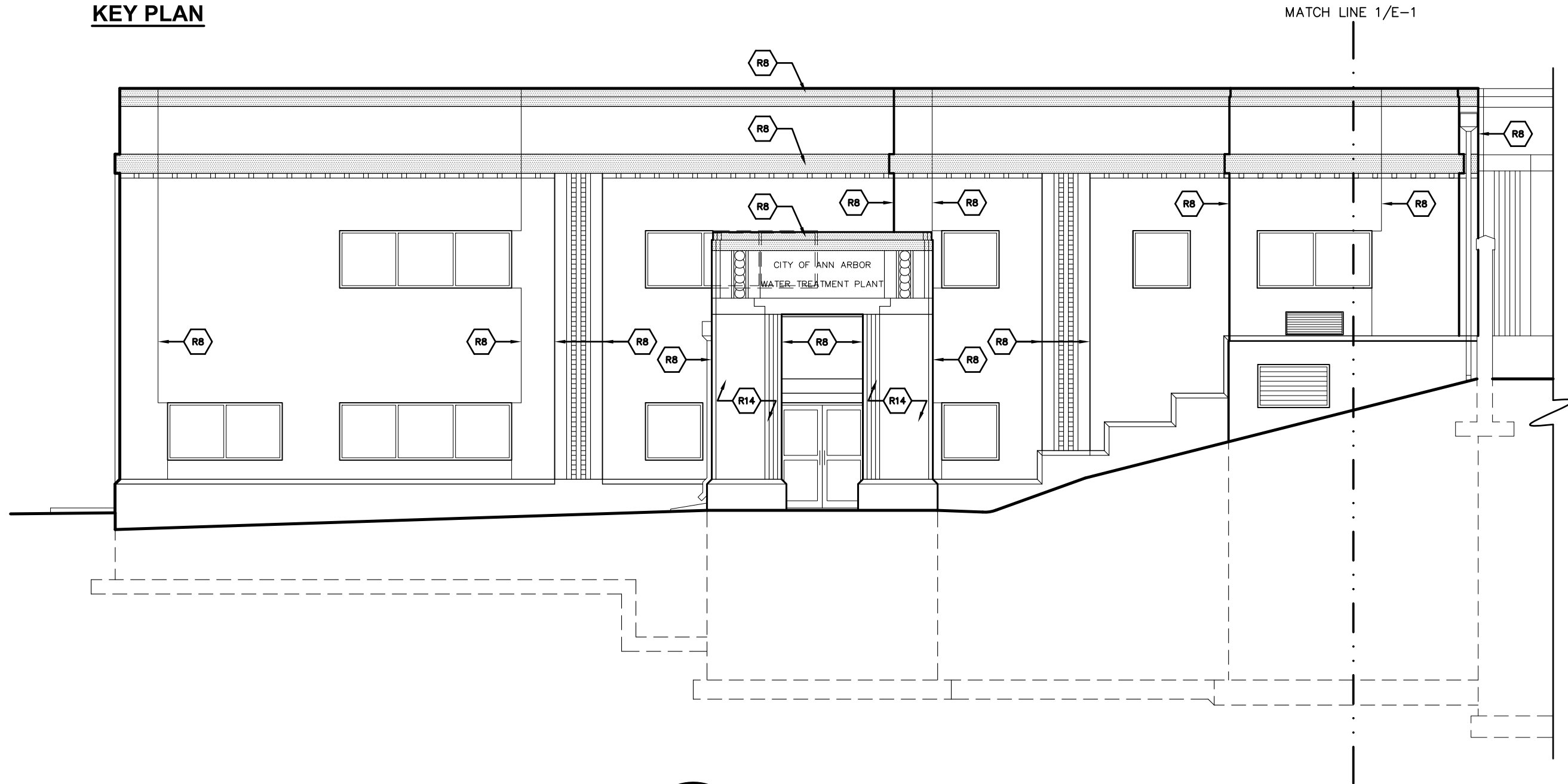
ELEVATIONS - RAPID MIX BUILDING

WATER TREATMENT PLANT
 CITY OF ANN ARBOR
 919 SUNSET RD. ANN ARBOR, MI 48103

REVISIONS / ADDENDA:
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APPROVED BY:
C.A.H.
DRAWN BY:
R.M.K.F.
DATE:
NOVEMBER 2018
PROJECT NUMBER:
T18074
DRAWING NUMBER:
E-6



KEY PLAN



1 WEST ELEVATION
E-7a N.T.S.

StructureTec

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ELEVATIONS – ADMINISTRATION BUILDING

WATER TREATMENT PLANT
 CITY OF ANN ARBOR
 919 SUNSET RD. ANN ARBOR, MI 48103

REVISIONS / ADDENDA:

SCALE:

N.T.S.

APPROVED BY:

C.A.H.

DRAWN BY:

R.M.K.F.

DATE:

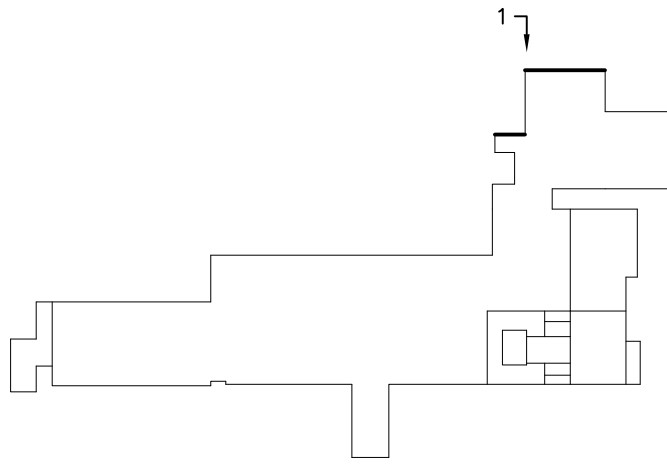
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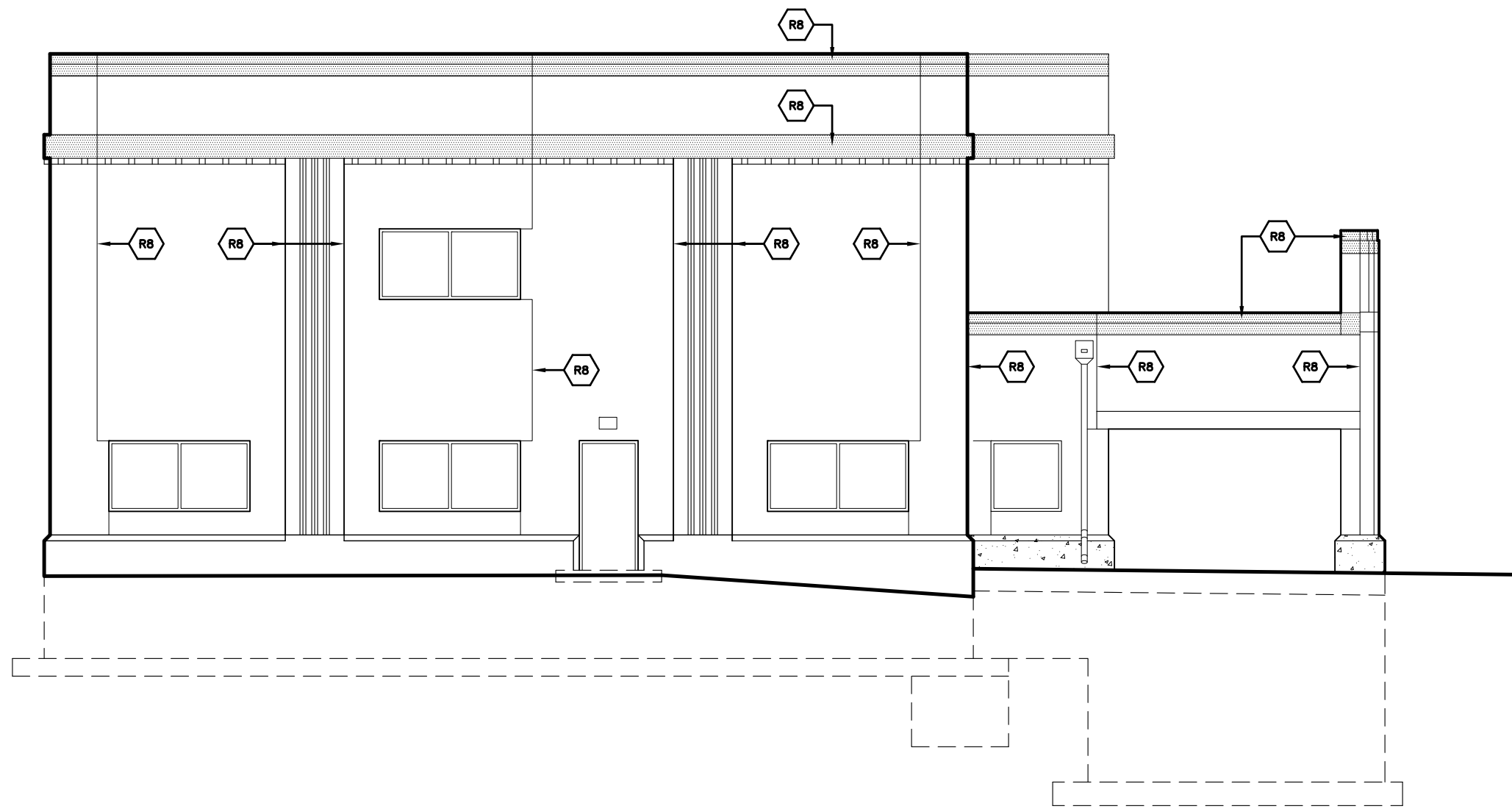
T18074

DRAWING NUMBER:

E-7a



KEY PLAN



1 NORTH ELEVATION
E-7b N.T.S.

StructureTec
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ELEVATIONS – ADMINISTRATION BUILDING

WATER TREATMENT PLANT
 CITY OF ANN ARBOR
 919 SUNSET RD. ANN ARBOR, MI 48103

REVISIONS / ADDENDA:

SCALE:
N.T.S.

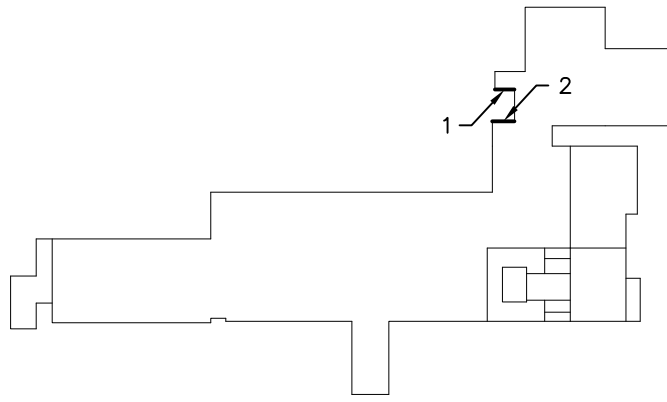
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C.A.H.

DRAWN BY:
R.M.K.F.

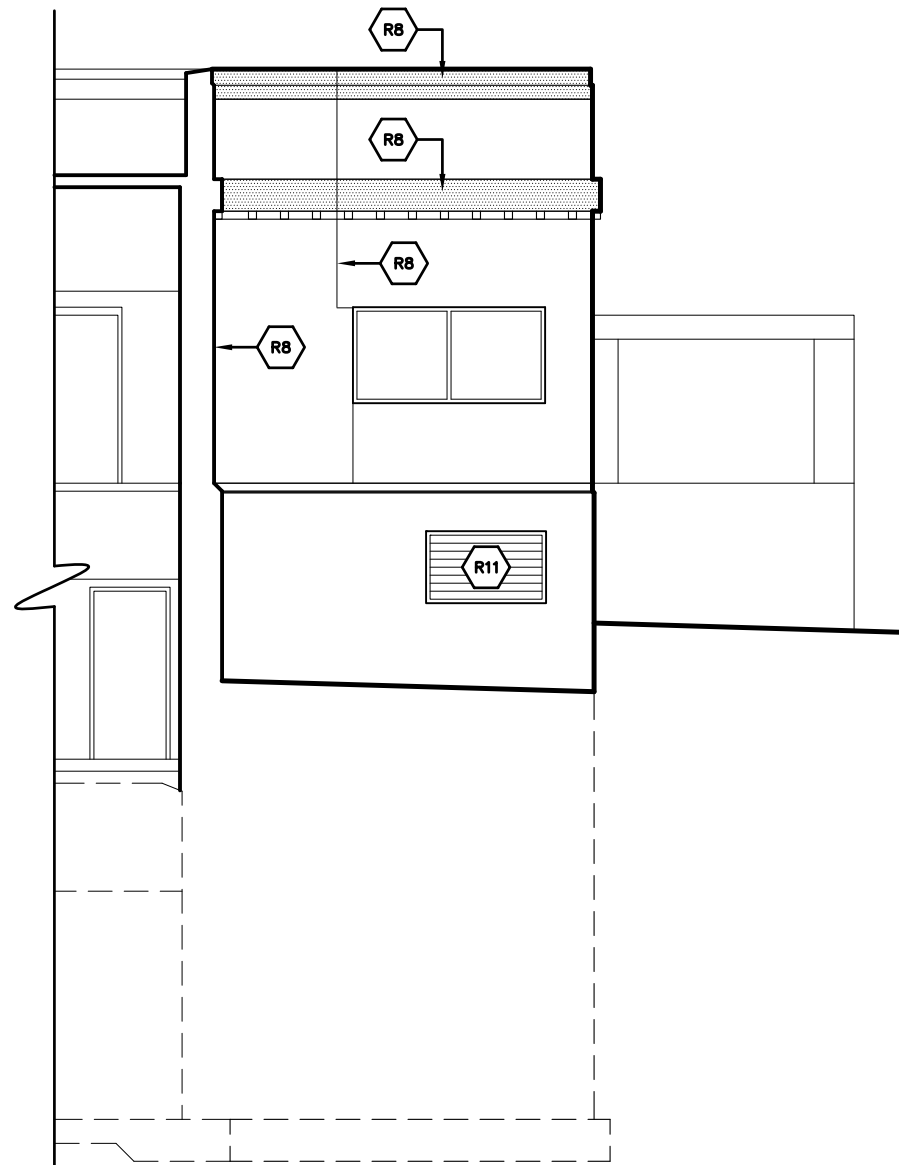
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NOVEMBER 2018

PROJECT NUMBER:
T18074

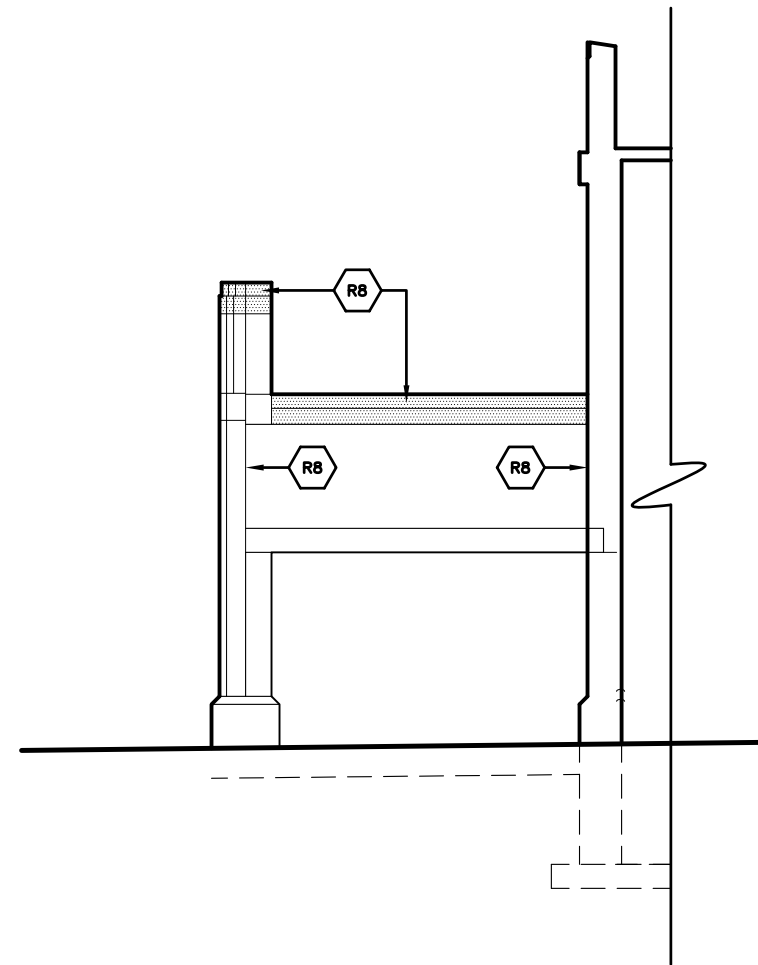
DRAWING NUMBER:
E-7b



KEY PLAN



2 PARTIAL NORTH ELEV.
E-7c N.T.S.



1 CANOPY - SOUTH
E-7c N.T.S.

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ELEVATIONS - ADMINISTRATION BUILDING

WATER TREATMENT PLANT
 CITY OF ANN ARBOR
 919 SUNSET RD. ANN ARBOR, MI 48103

REVISIONS / ADDENDA:

SCALE: N.T.S.

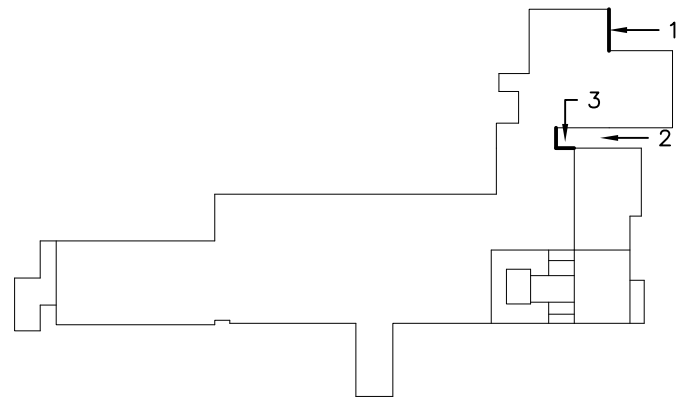
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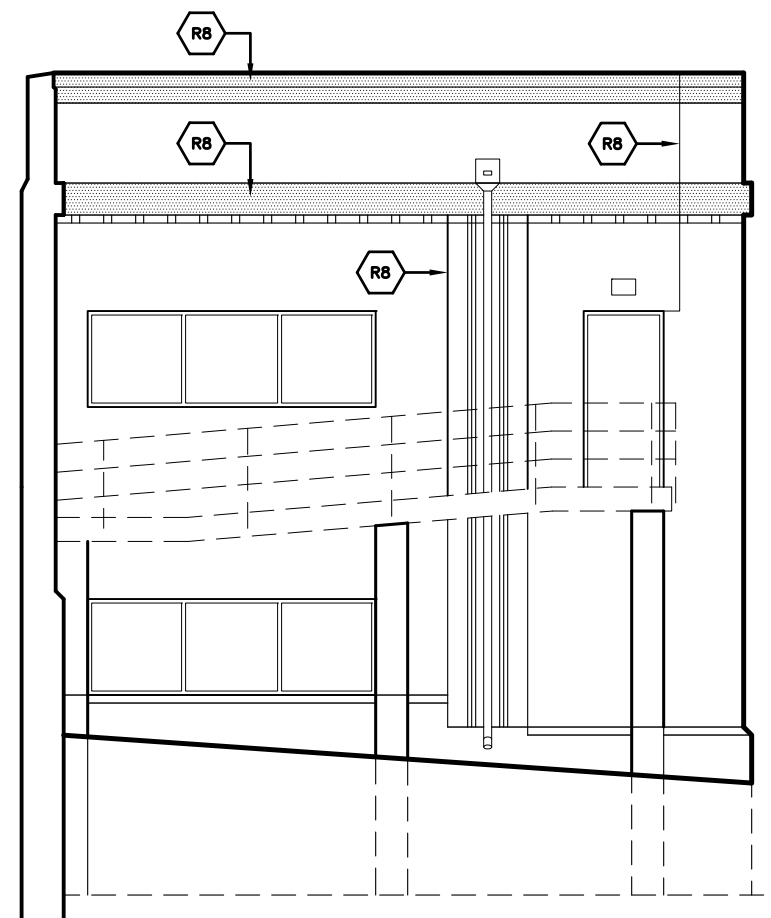
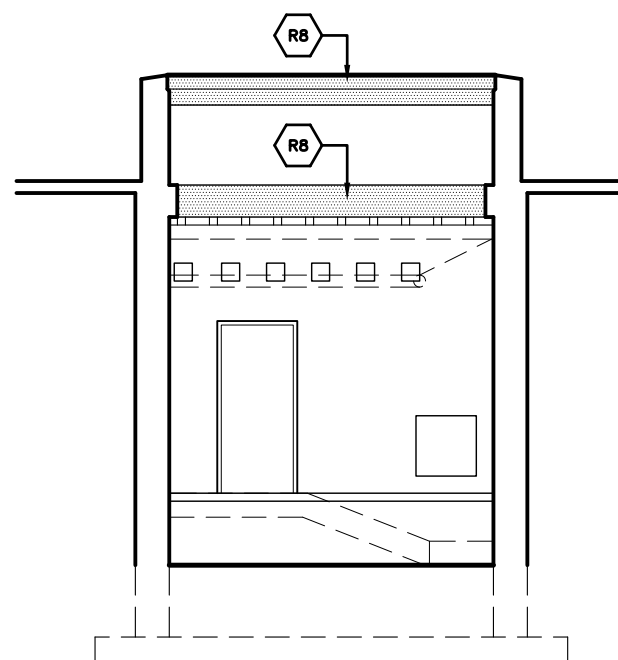
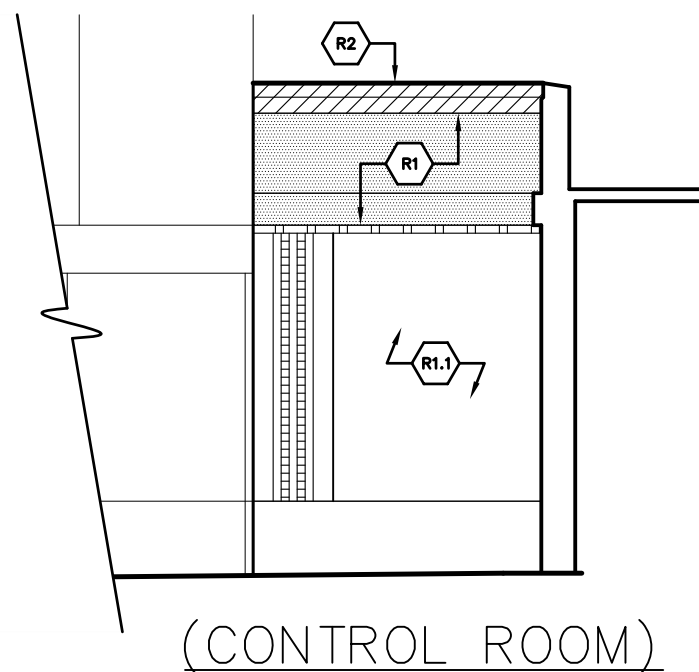
DATE: NOVEMBER 2018

PROJECT NUMBER: T18074

DRAWING NUMBER: E-7c



KEY PLAN



3 PARTIAL NORTH ELEV.
E-7d N.T.S.

2 PARTIAL EAST ELEV.
E-7d N.T.S.

1 PARTIAL EAST ELEV.
E-7d N.T.S.

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ELEVATIONS - ADMINISTRATION BUILDING

WATER TREATMENT PLANT
 CITY OF ANN ARBOR
 919 SUNSET RD. ANN ARBOR, MI 48103

REVISIONS / ADDENDA:

SCALE:

N.T.S.

APPROVED BY:

C.A.H.

DRAWN BY:

R.M.K.F.

DATE:

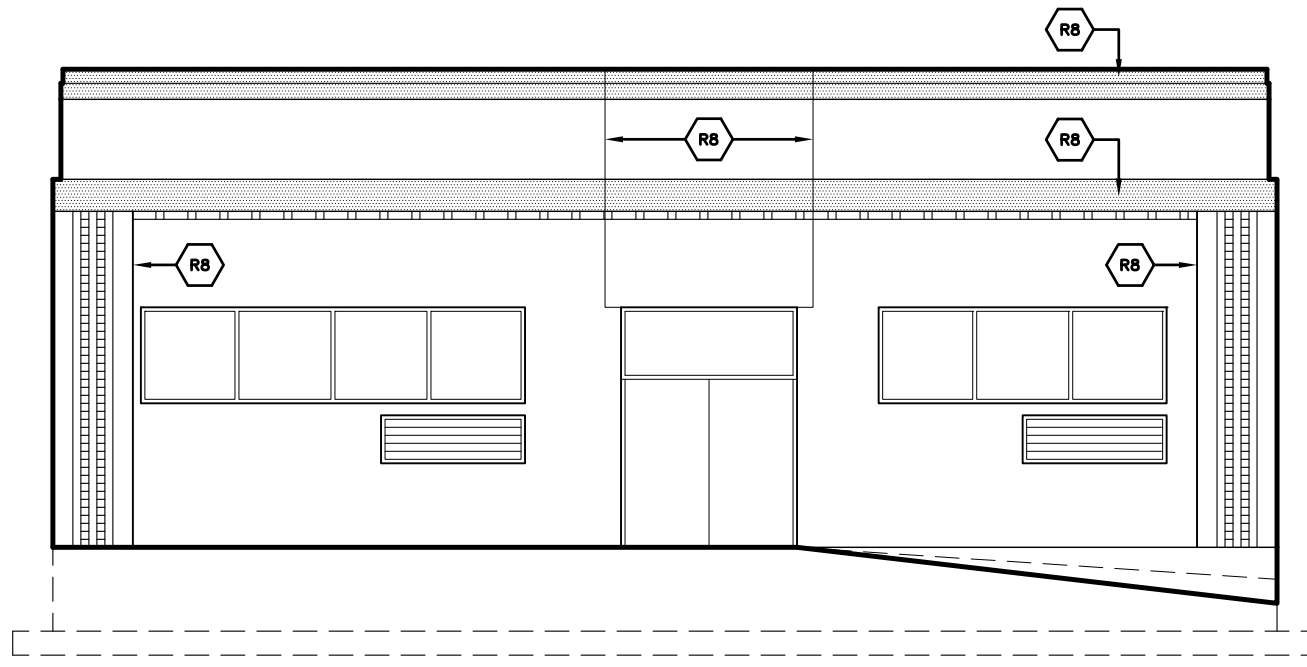
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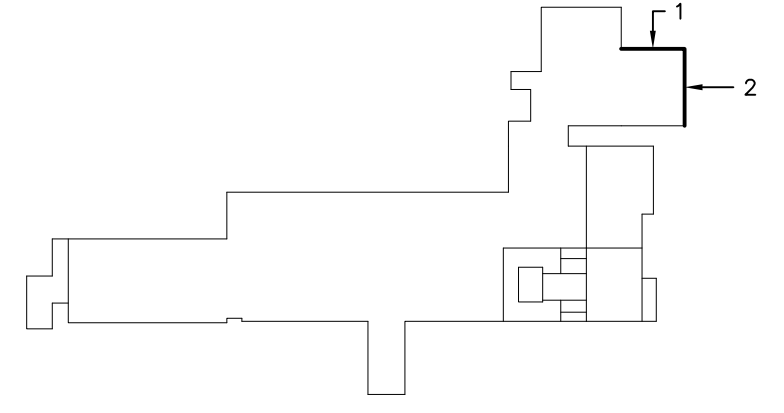
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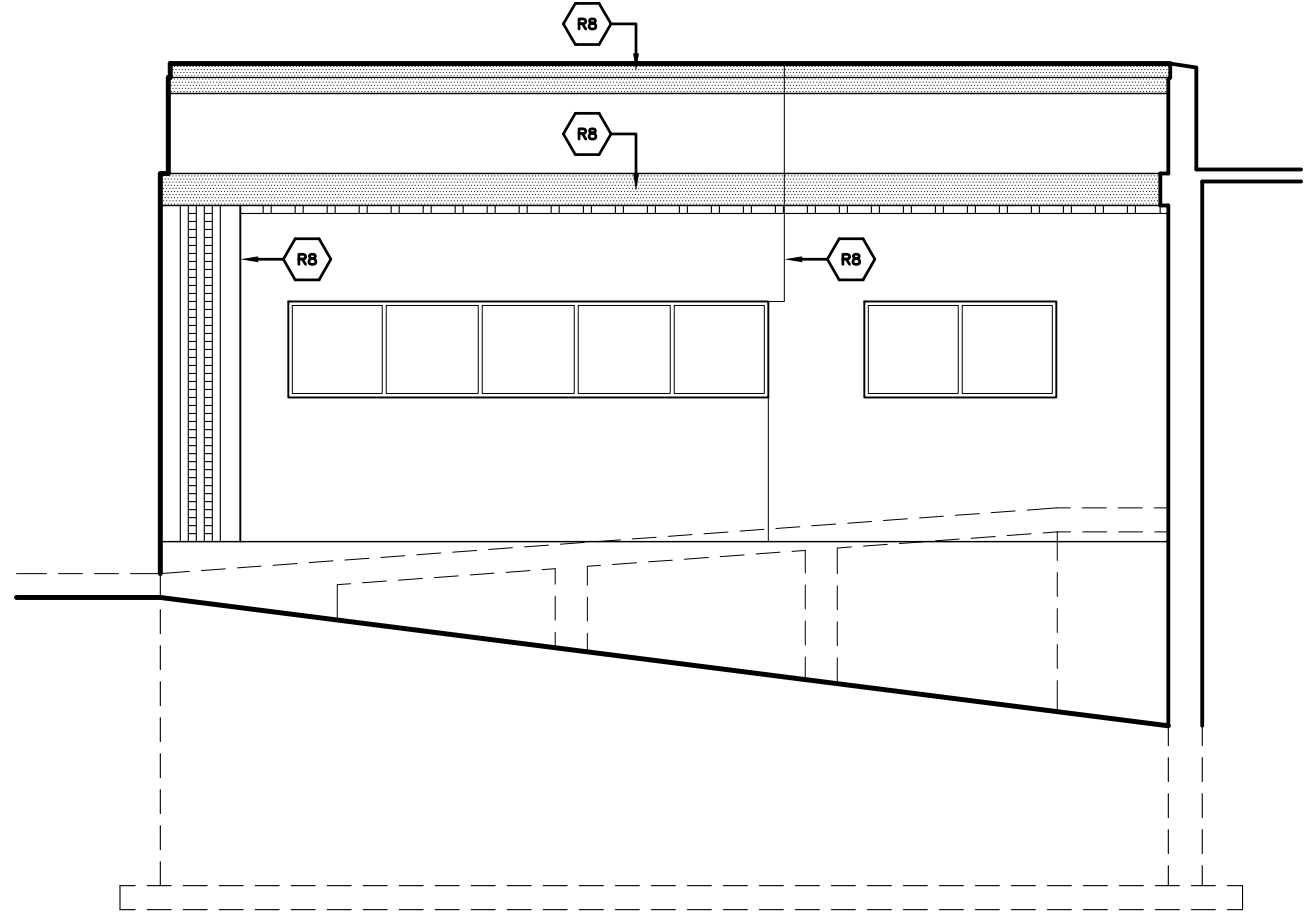
E-7d



2 EAST ELEVATION
E-8b N.T.S.



KEY PLAN



1 NORTH ELEVATION
E-8a N.T.S.

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ELEVATIONS - WHS BUILDING

WATER TREATMENT PLANT
 CITY OF ANN ARBOR
 919 SUNSET RD. ANN ARBOR, MI 48103

REVISIONS / ADDENDA:

SCALE:

N.T.S.

APPROVED BY:

C.A.H.

DRAWN BY:

R.M.K.F.

DATE:

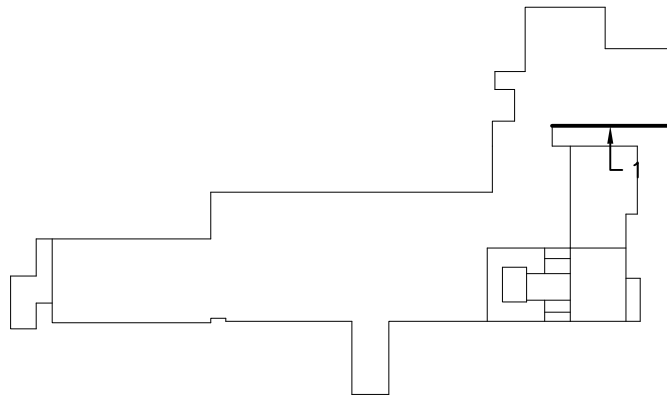
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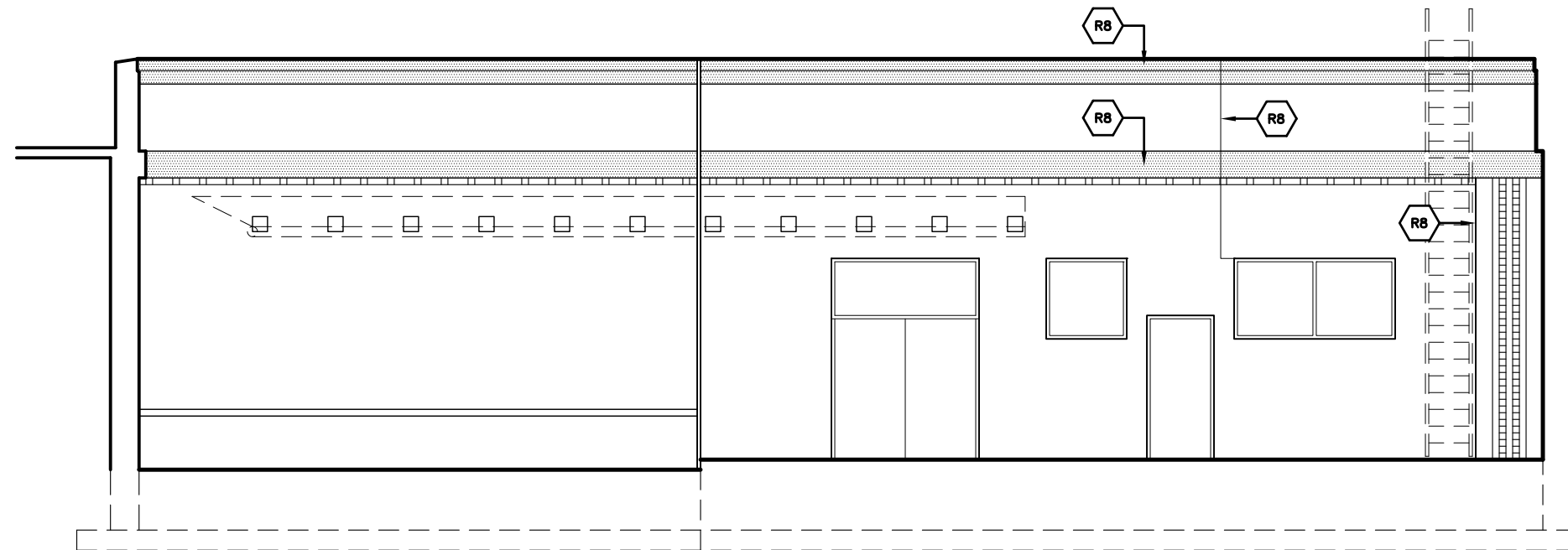
T18074

DRAWING NUMBER:

E-8a



KEY PLAN



1 SOUTH ELEVATION
E-8b N.T.S.

StructureTec

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ELEVATIONS - WHS BUILDING

WATER TREATMENT PLANT
CITY OF ANN ARBOR
919 SUNSET RD. ANN ARBOR, MI 48103

REVISIONS / ADDENDA:

SCALE:

N.T.S.

APPROVED BY:

C.A.H.

DRAWN BY:

R.M.K.F.

DATE:

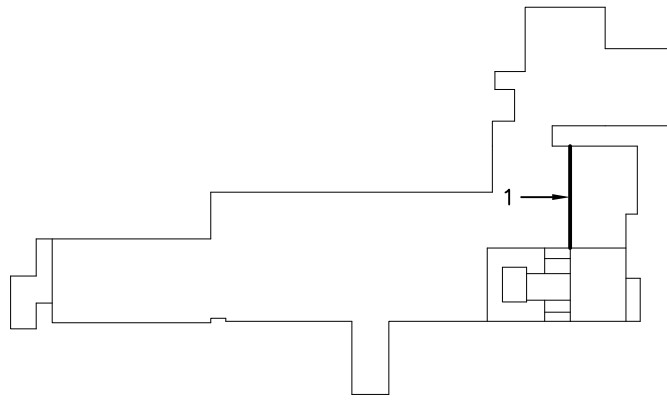
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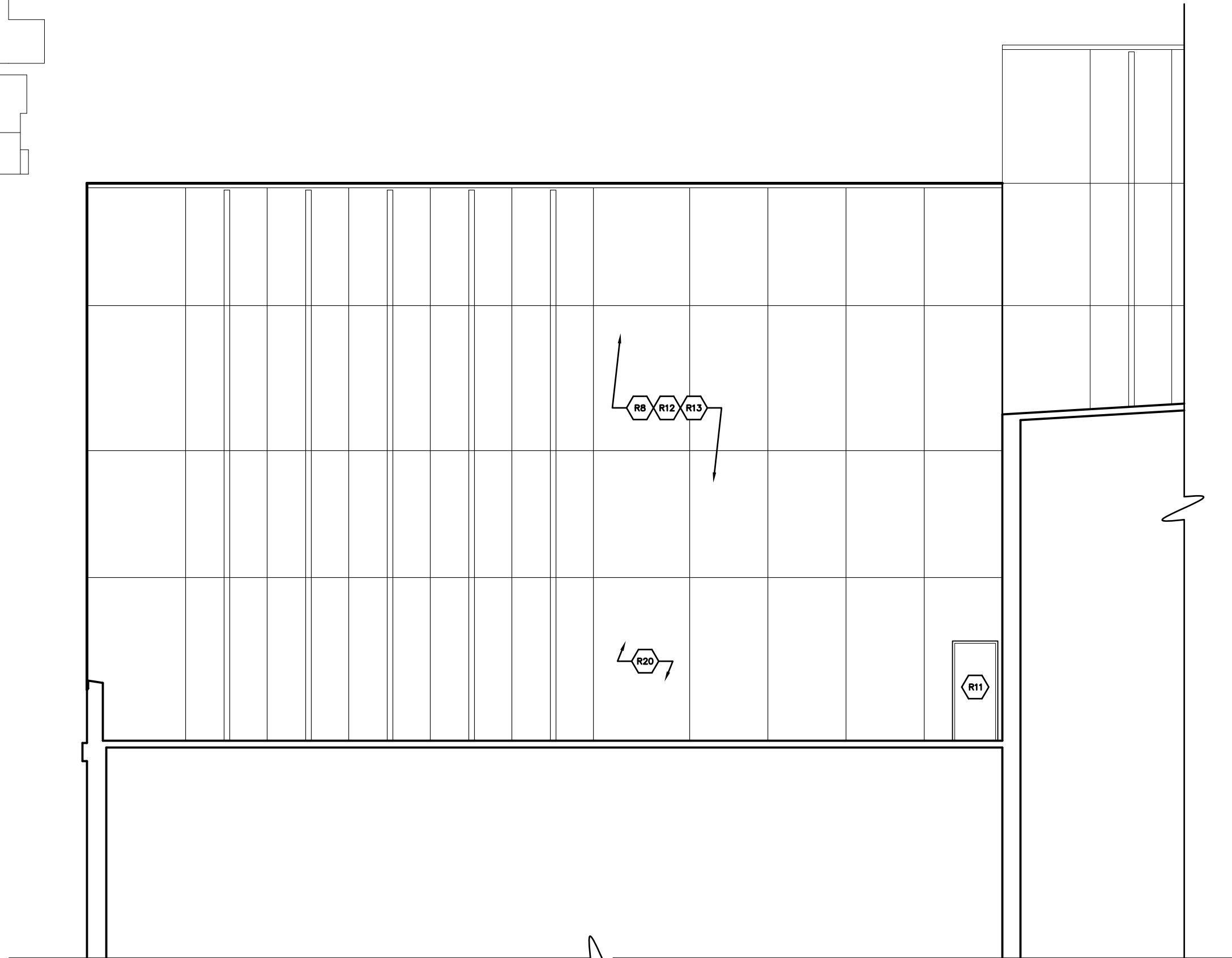
T18074

DRAWING NUMBER:

E-8b



KEY PLAN



1 **WEST ELEVATION**
E-9a N.T.S.

StructureTec
 Total Building Envelope Management SolutionSM
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ELEVATIONS – FILTER PRESS

WATER TREATMENT PLANT
 CITY OF ANN ARBOR
 919 SUNSET RD. ANN ARBOR, MI 48103

REVISIONS / ADDENDA:

SCALE: N.T.S.

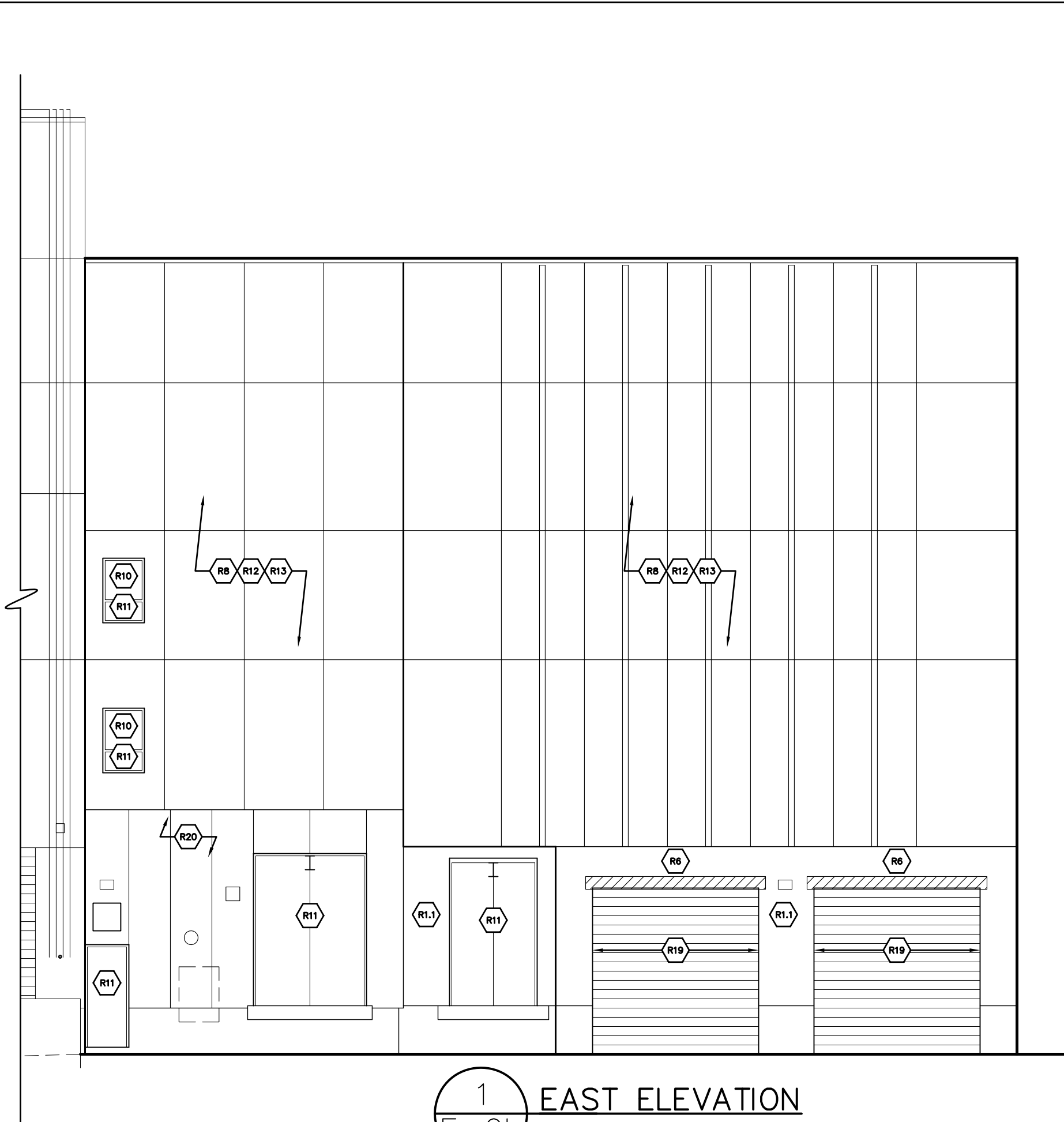
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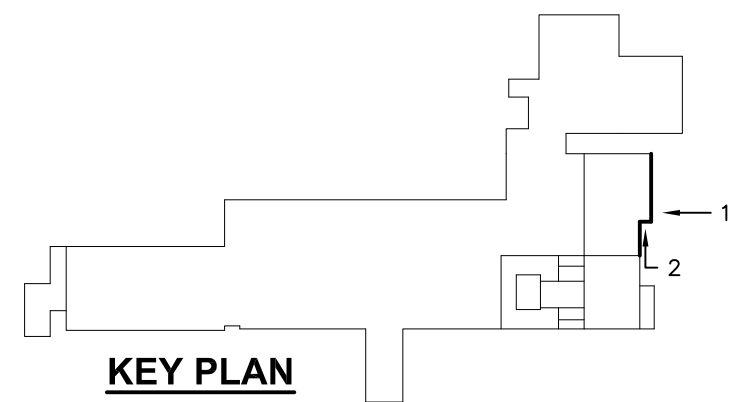
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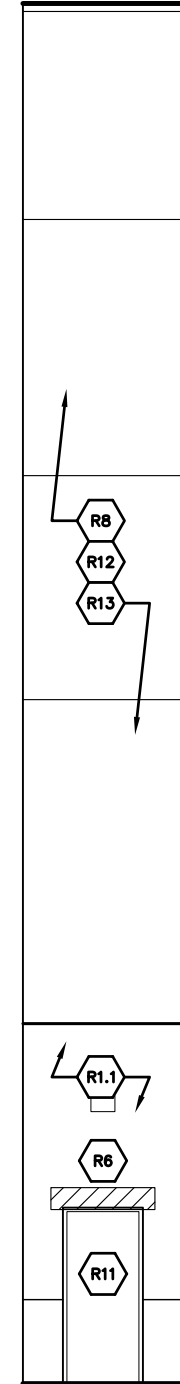
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1 EAST ELEVATION
E-9b N.T.S.



KEY PLAN

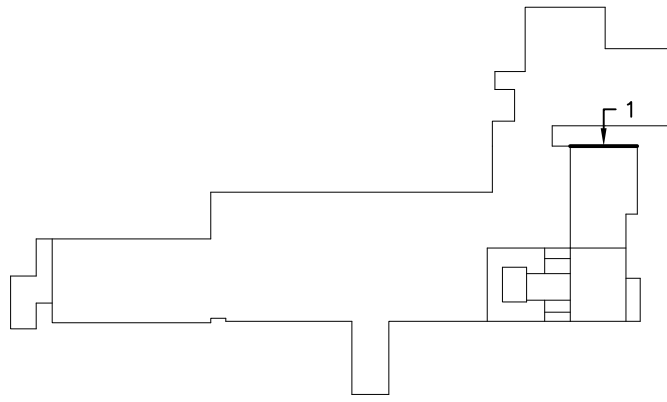


2 SOUTH ELEVATION
E-9b N.T.S.

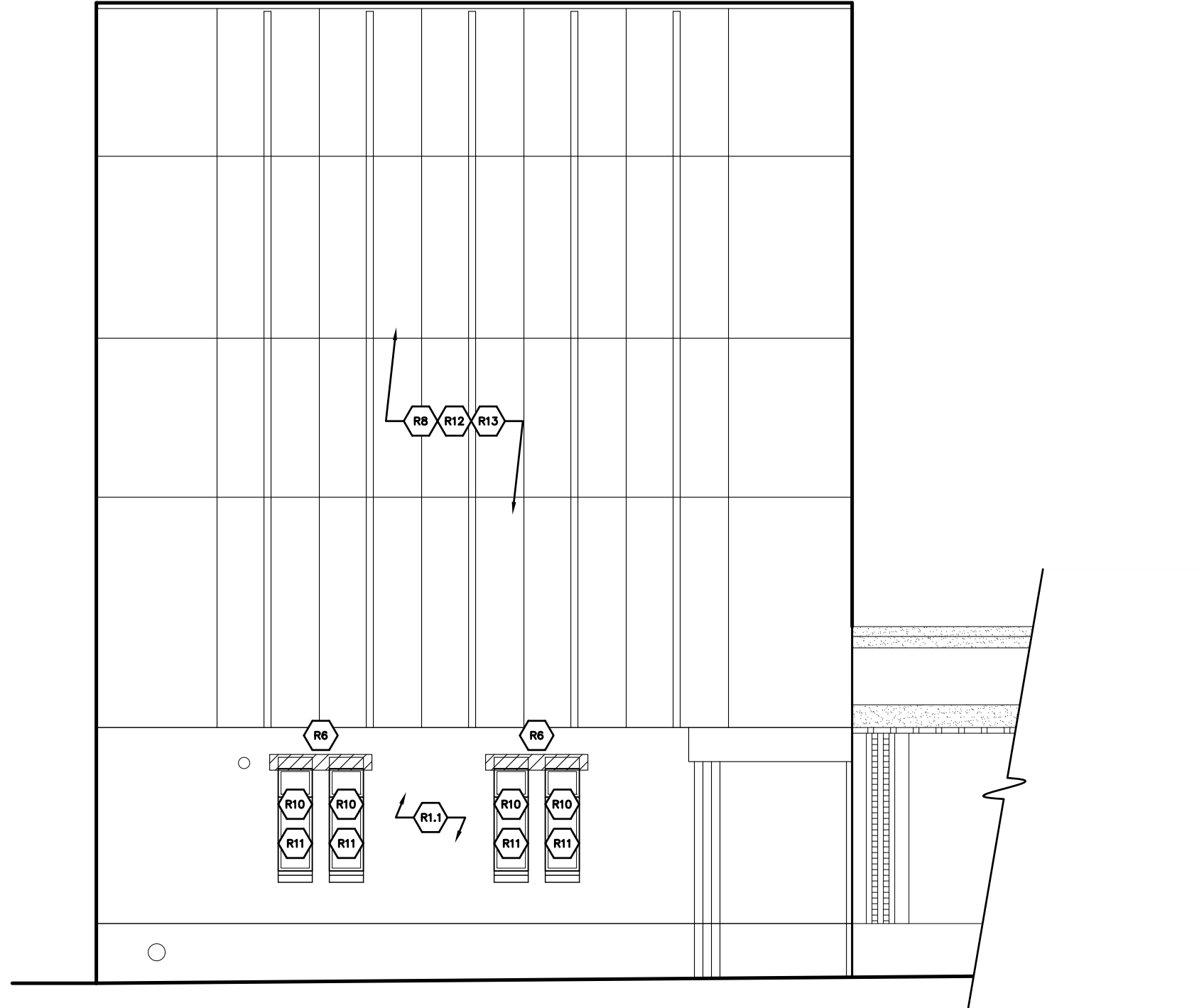
StructureTec
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ELEVATIONS – FILTER PRESS
 WATER TREATMENT PLANT
 CITY OF ANN ARBOR
 919 SUNSET RD. ANN ARBOR, MI 48103

REVISIONS / ADDENDA:
SCALE:
N.T.S.
APPROVED BY:
C.A.H.
DRAWN BY:
R.M.K.F.
DATE:
NOVEMBER 2018
PROJECT NUMBER:
T18074
DRAWING NUMBER:
E-9b



KEY PLAN



1 NORTH ELEVATION
E-9c N.T.S.

StructureTec

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ELEVATIONS – FILTER PRESS

WATER TREATMENT PLANT
 CITY OF ANN ARBOR
 919 SUNSET RD. ANN ARBOR, MI 48103

REVISIONS / ADDENDA:

SCALE: N.T.S.

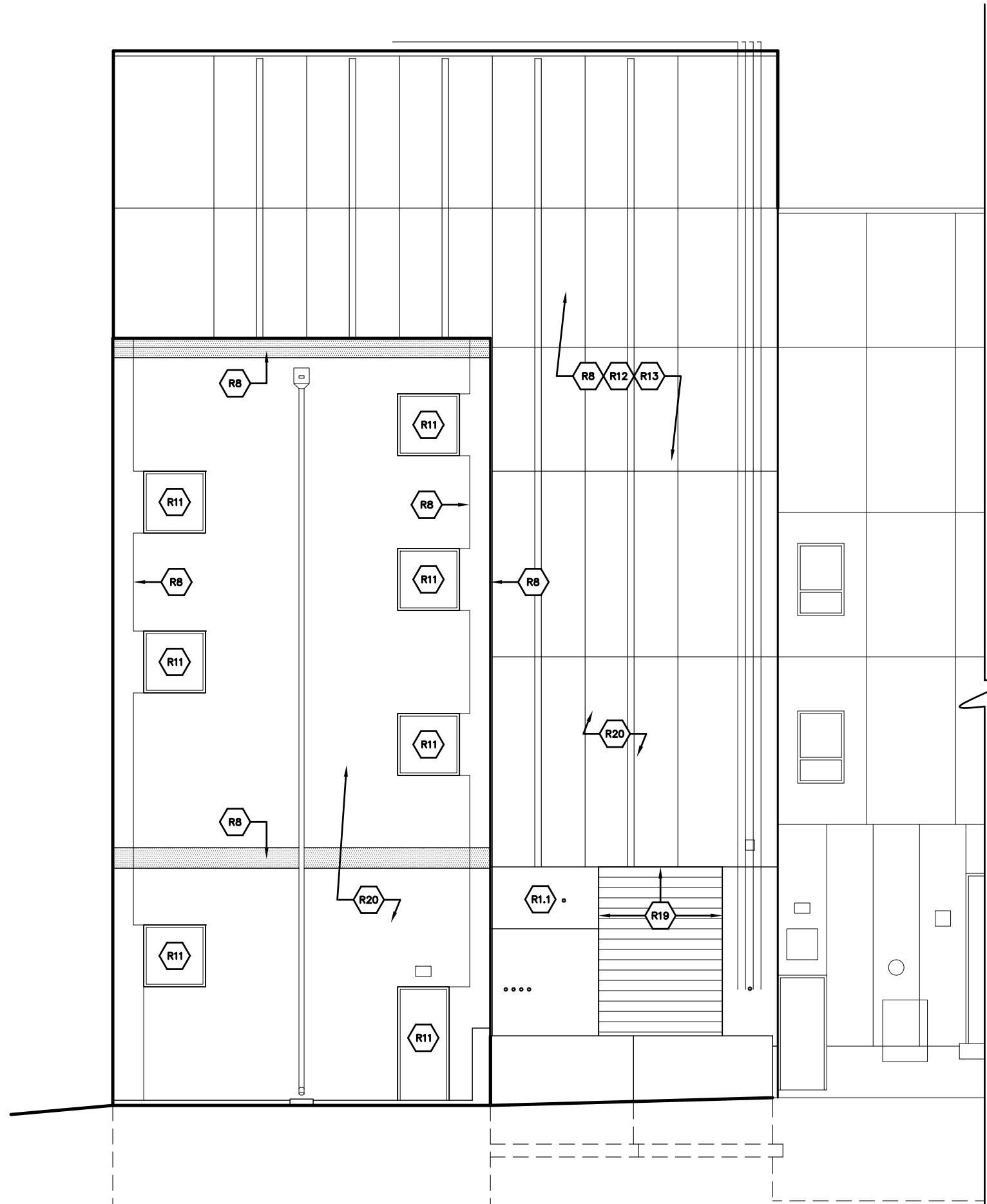
APPROVED BY: C.A.H.

DRAWN BY: R.M.K.F.

DATE: NOVEMBER 2018

PROJECT NUMBER: T18074

DRAWING NUMBER: E-9c



KEY PLAN

1 EAST ELEVATION
E-10a N.T.S.

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ELEVATIONS - CALCINER BUILDING

WATER TREATMENT PLANT
 CITY OF ANN ARBOR
 919 SUNSET RD. ANN ARBOR, MI 48103

REVISIONS / ADDENDA:

SCALE:

N.T.S.

APPROVED BY:

C.A.H.

DRAWN BY:

R.M.K.F.

DATE:

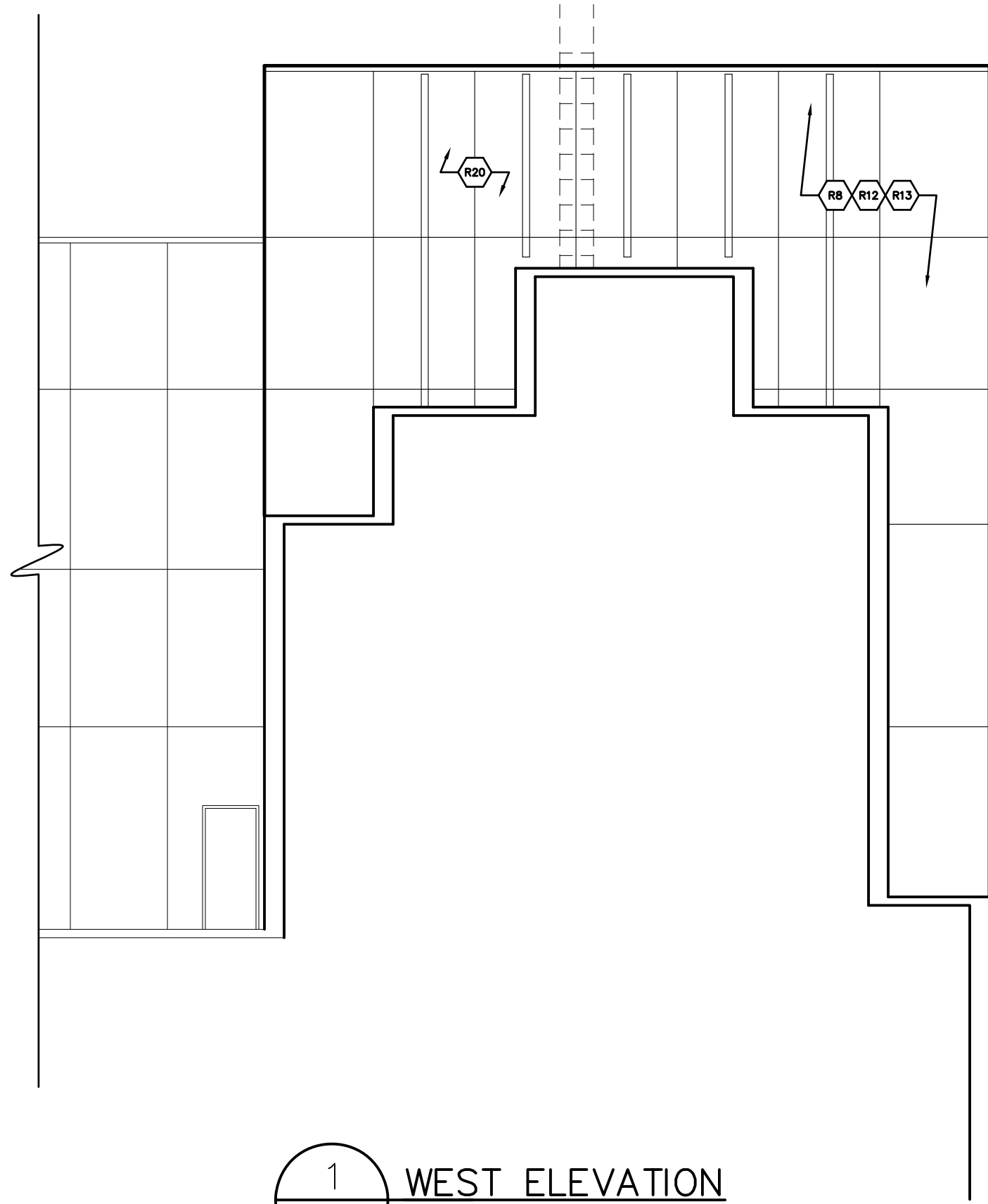
NOVEMBER 2018

PROJECT NUMBER:

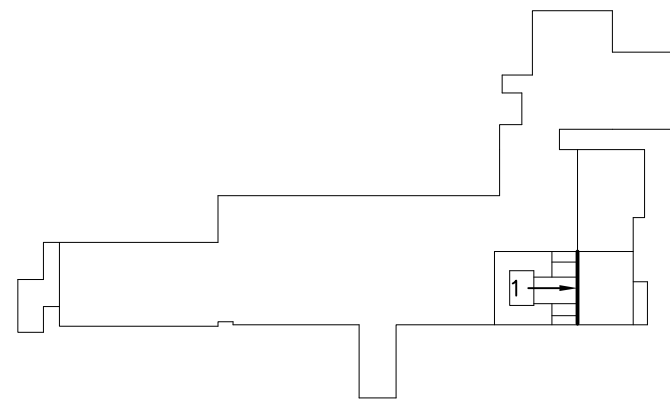
T18074

DRAWING NUMBER:

E-10a



1 WEST ELEVATION
 E-10b N.T.S.



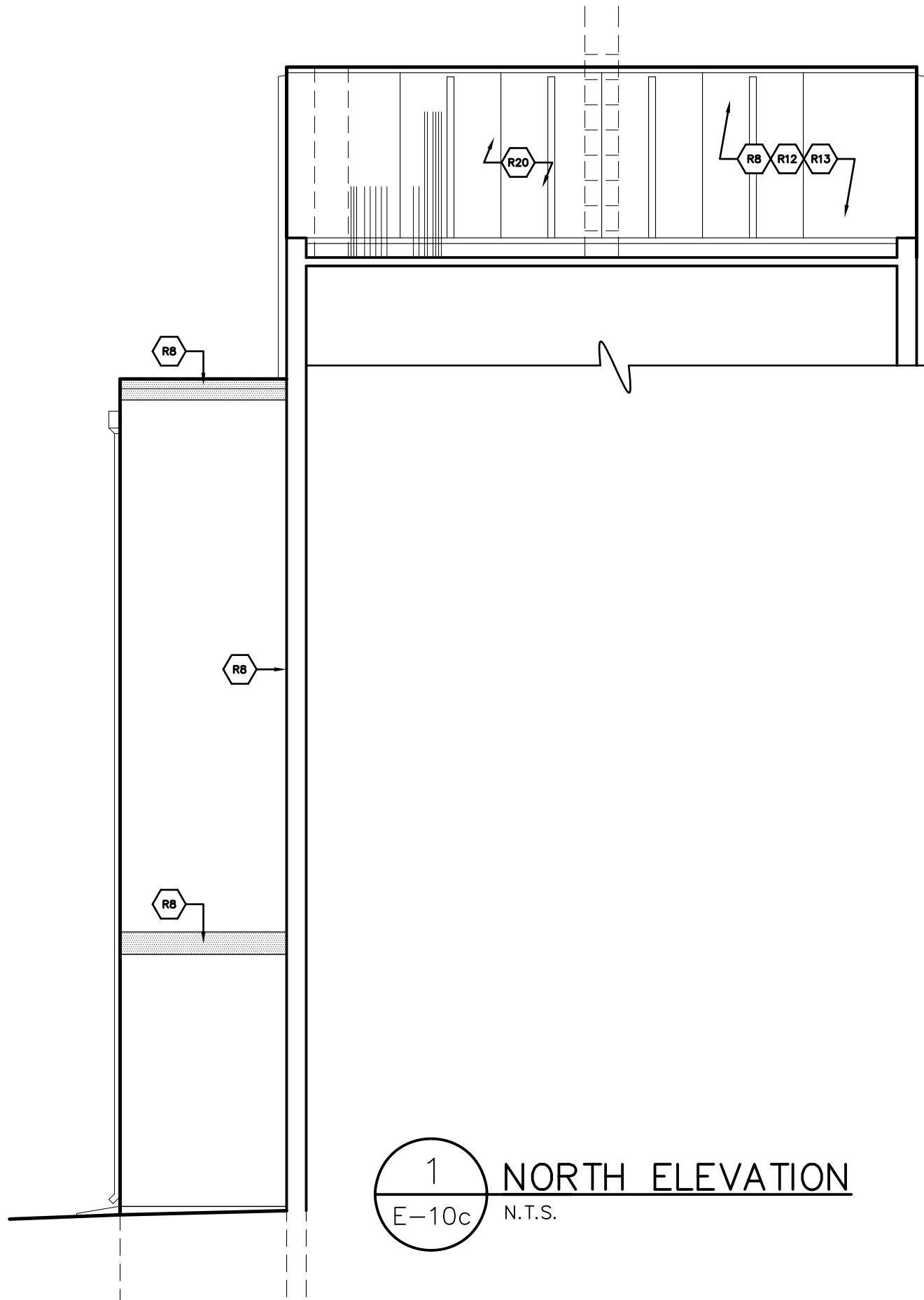
KEY PLAN

StructureTec
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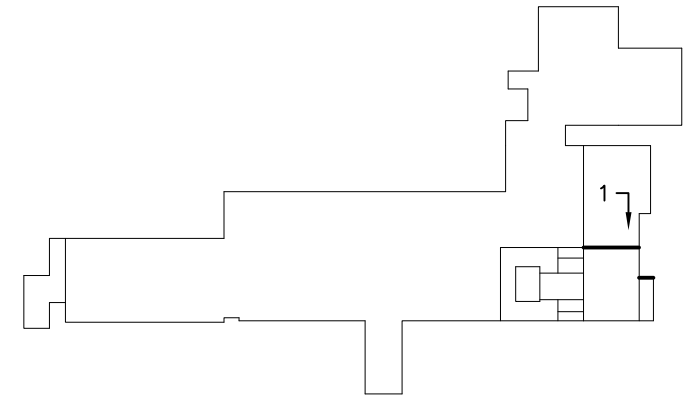
ELEVATIONS – CALCINER BUILDING

WATER TREATMENT PLANT
 CITY OF ANN ARBOR
 919 SUNSET RD. ANN ARBOR, MI 48103

REVISIONS / ADDENDA:
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R.M.K.F.
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E-10b



1 NORTH ELEVATION
E-10c N.T.S.



KEY PLAN

StructureTec

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ELEVATIONS – CALCINER BUILDING

WATER TREATMENT PLANT
 CITY OF ANN ARBOR
 919 SUNSET RD. ANN ARBOR, MI 48103

REVISIONS / ADDENDA:

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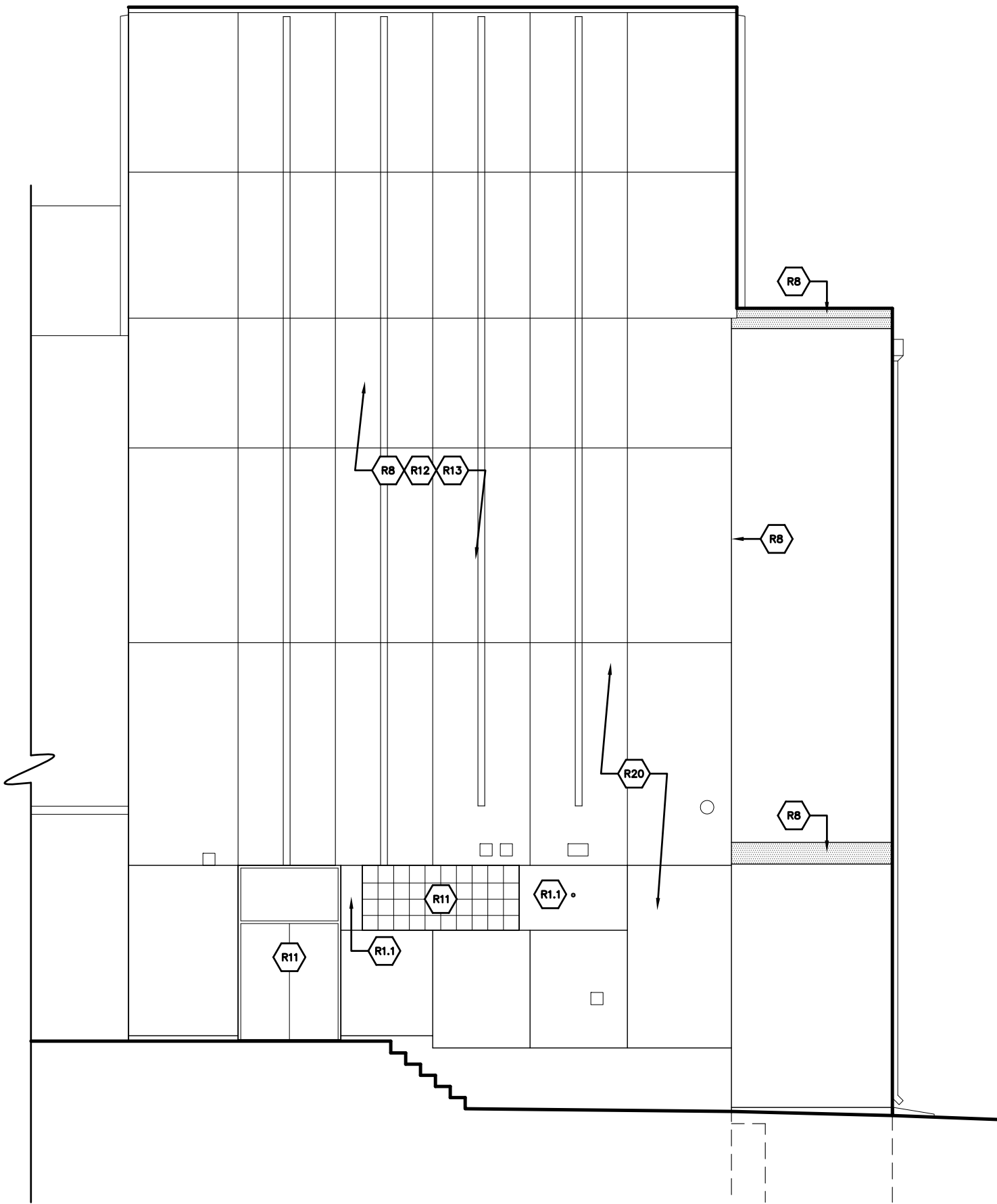
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DRAWN BY: R.M.K.F.

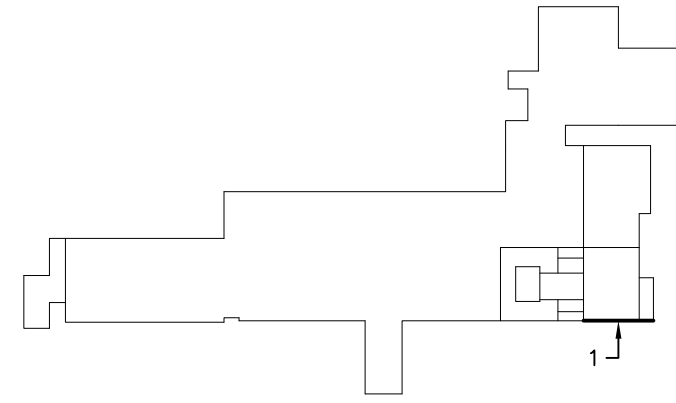
DATE: NOVEMBER 2018

PROJECT NUMBER: T18074

DRAWING NUMBER: E-10c



1 SOUTH ELEVATION
E-10d N.T.S.



KEY PLAN

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ELEVATIONS - CALCINER BUILDING

WATER TREATMENT PLANT
CITY OF ANN ARBOR

919 SUNSET RD. ANN ARBOR, MI 48103

REVISIONS / ADDENDA:

SCALE:

N.T.S.

APPROVED BY:

C.A.H.

DRAWN BY:

R.M.K.F.

DATE:

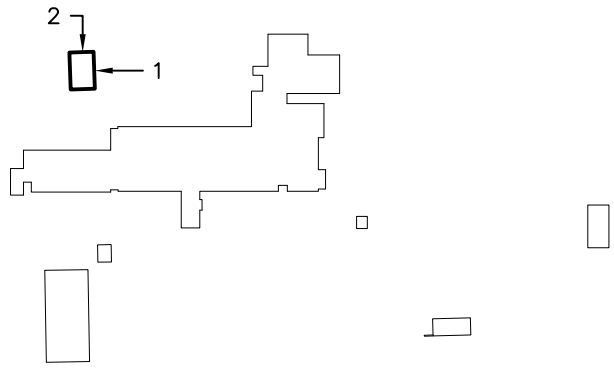
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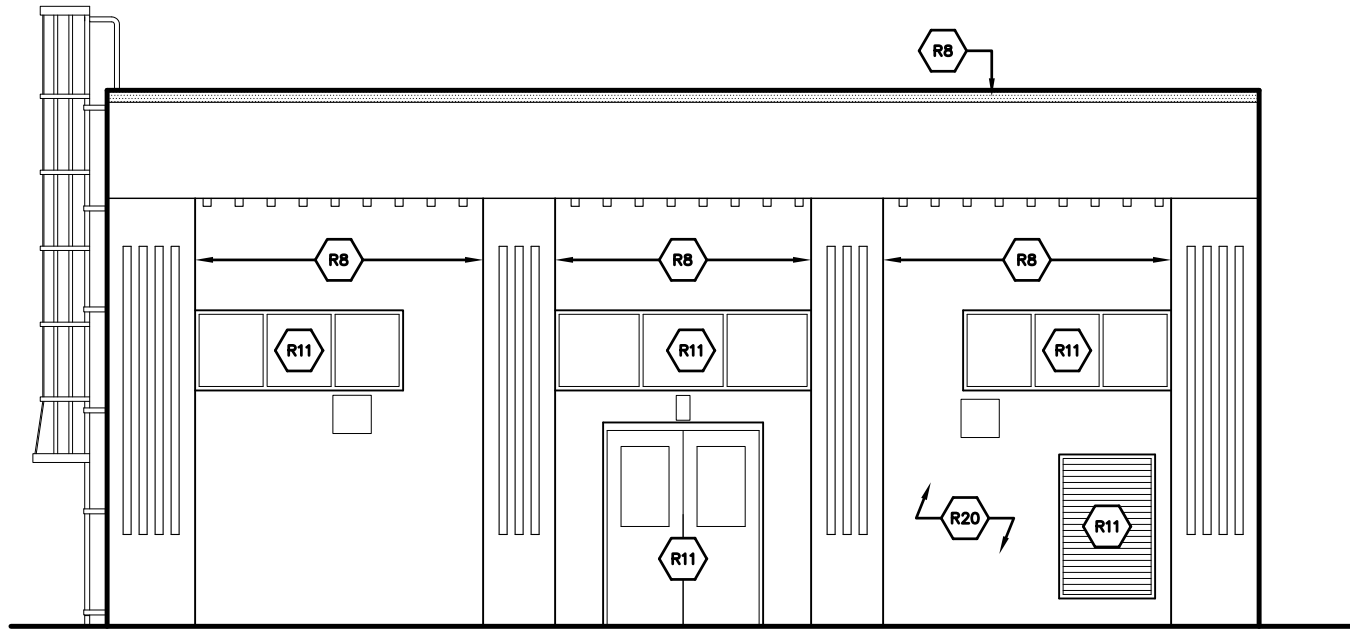
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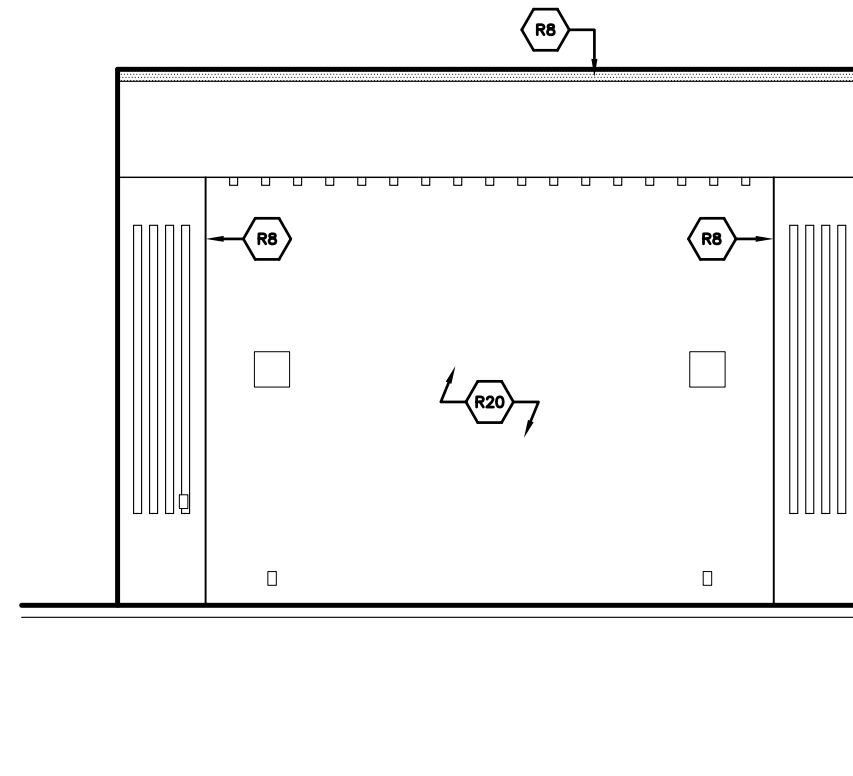
E-10d



KEY PLAN



1 EAST ELEVATION
E-11a N.T.S.

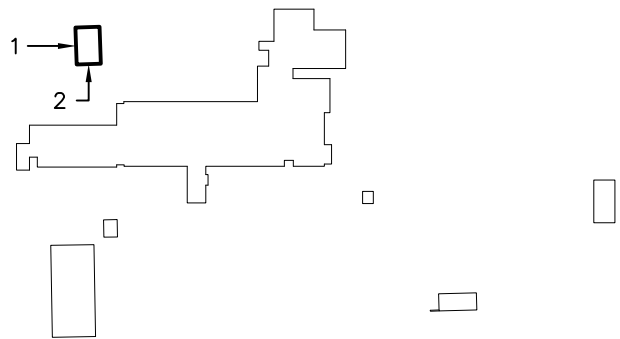


2 NORTH ELEVATION
E-11a N.T.S.

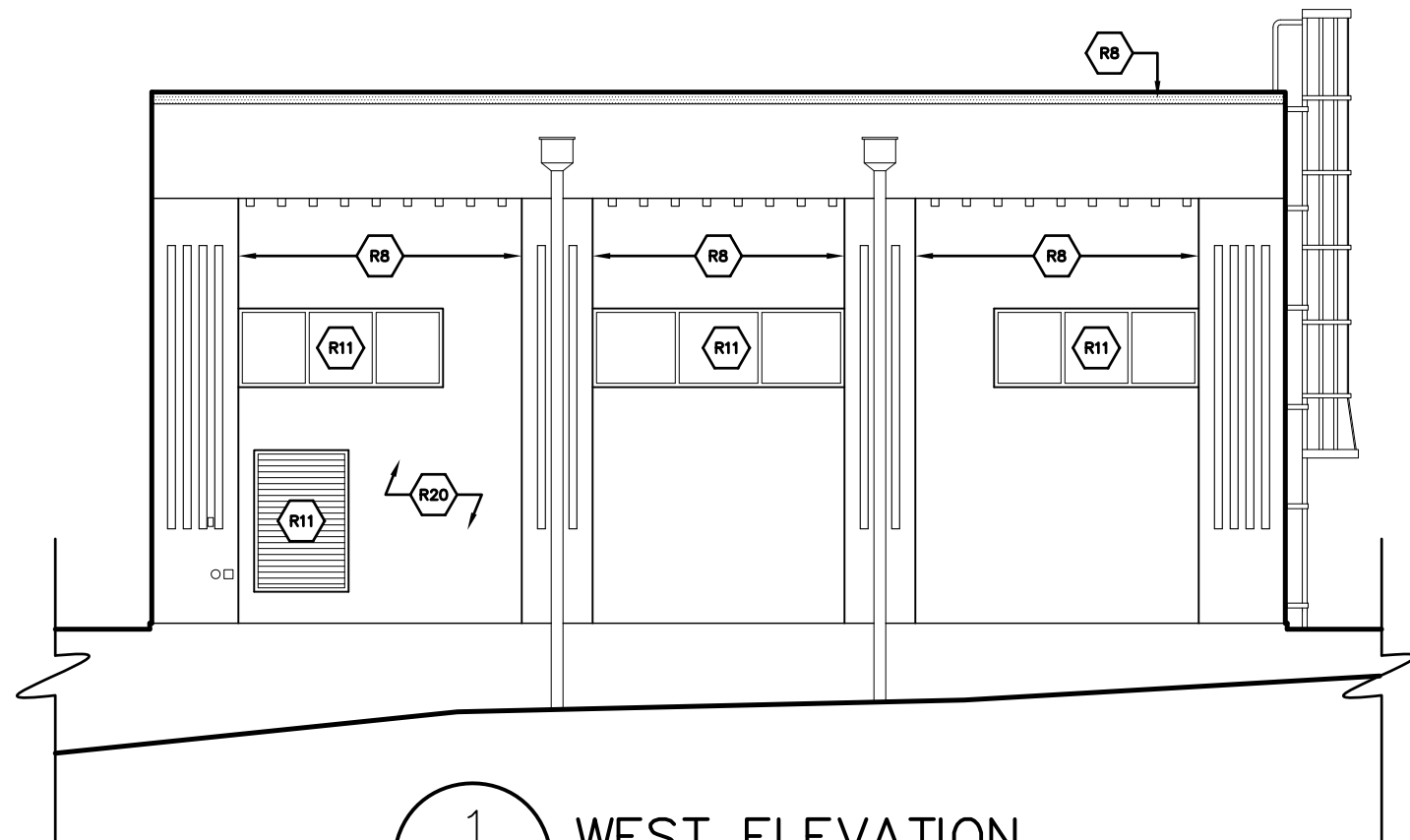
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 Total Building Envelope Management SolutionSM
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 1121 Lake Cook Road, Ste C • Deerfield, IL 60015
 473 Airport Road, Ste 1 • Butler, PA 16002
 34119 W. Twelve Mile Road, Ste 270 • Farmington Hills, MI 48331

ELEVATIONS – EQ BUILDING
 WATER TREATMENT PLANT
 CITY OF ANN ARBOR
 919 SUNSET RD. ANN ARBOR, MI 48103

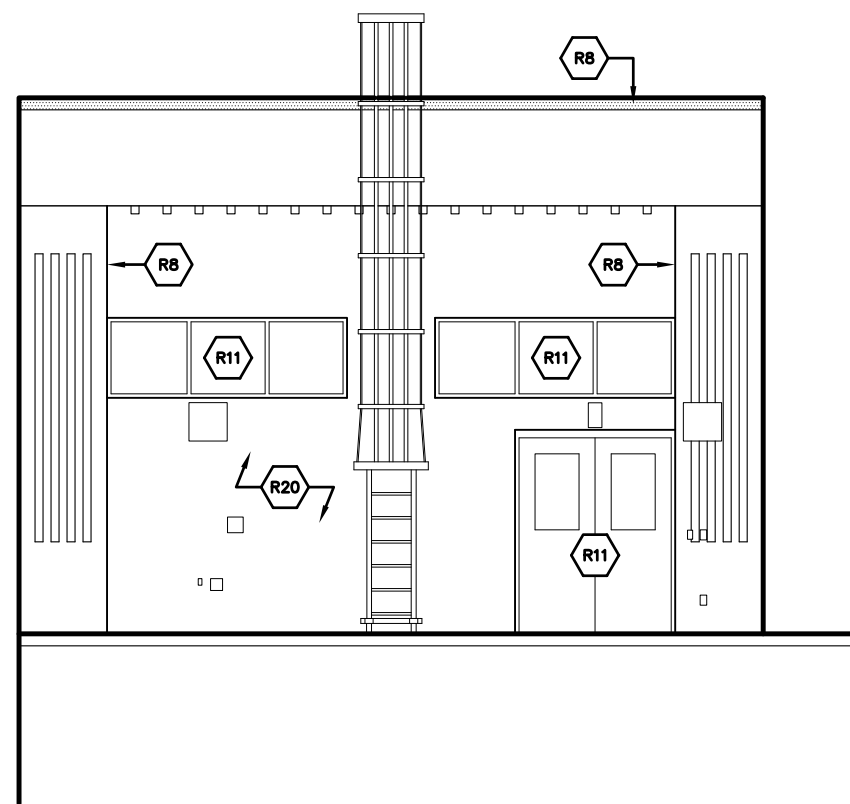
REVISIONS / ADDENDA:
SCALE: N.T.S.
APPROVED BY: C.A.H.
DRAWN BY: R.M.K.F.
DATE: NOVEMBER 2018
PROJECT NUMBER: T18074
DRAWING NUMBER: E-11a



KEY PLAN



1 WEST ELEVATION
E-11b N.T.S.



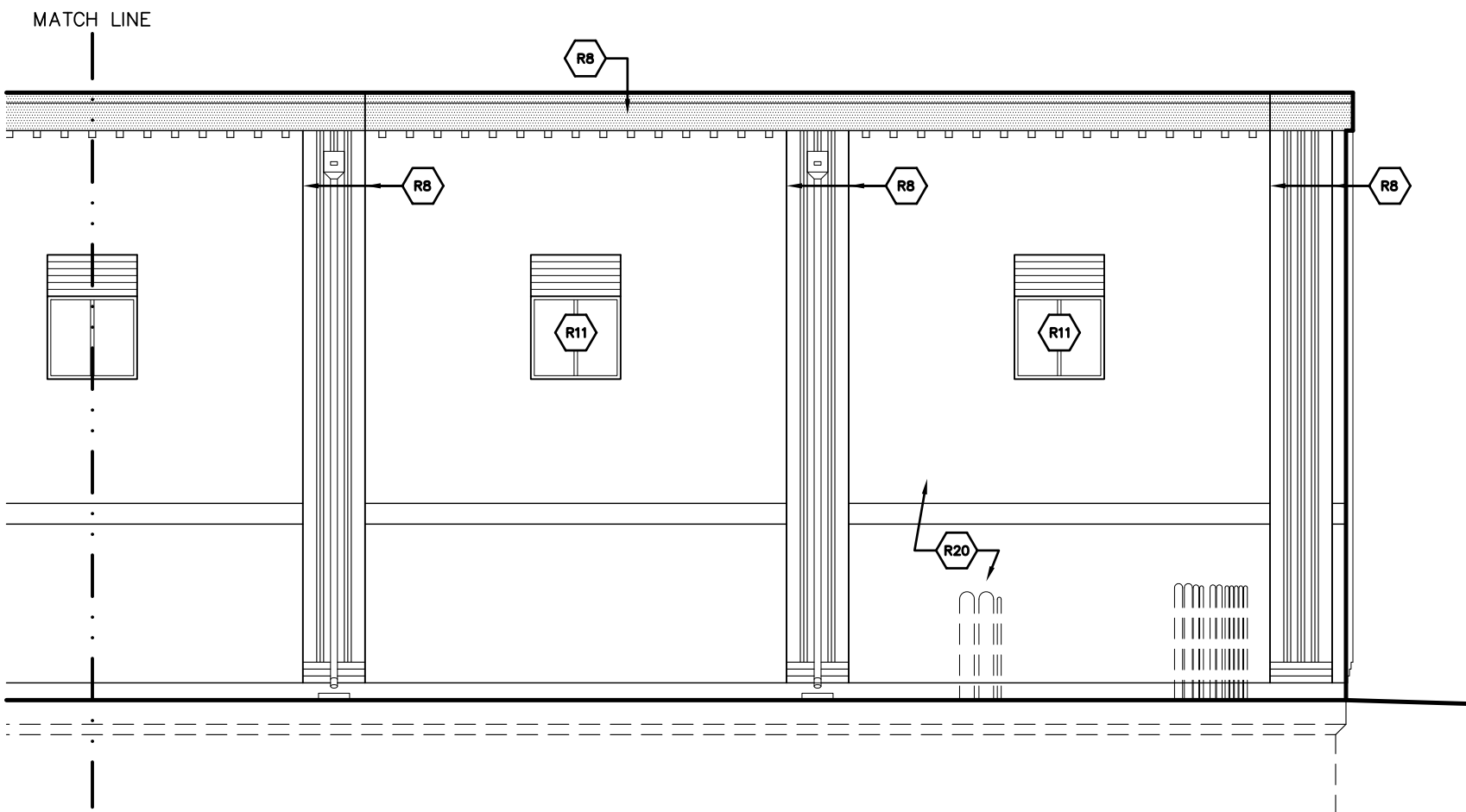
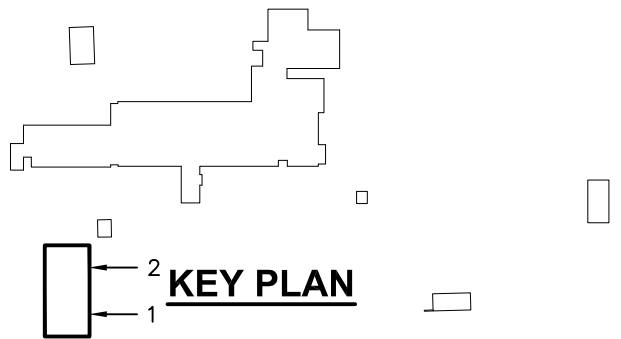
2 SOUTH ELEVATION
E-11b N.T.S.

StructureTec
Total Building Envelope Management SolutionSM
 4777 Campus Drive • Kalamazoo, MI 49008
 1121 Lake Cook Road, Ste C • Deerfield, IL 60015
 473 Airport Road, Ste 1 • Butler, PA 16002
 34119 W. Twelve Mile Road, Ste 270 • Farmington Hills, MI 48331

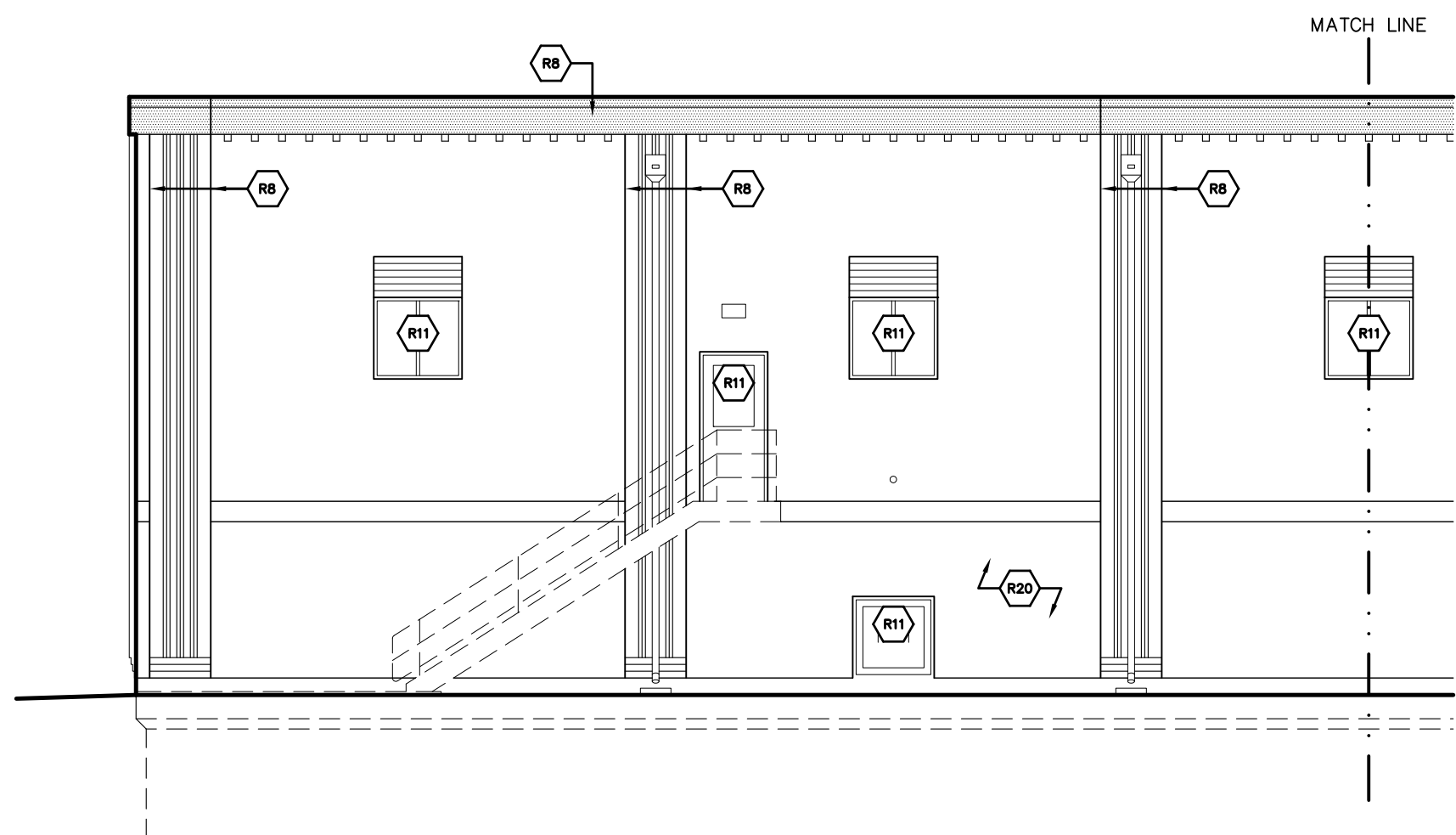
ELEVATIONS – EQ BUILDING

WATER TREATMENT PLANT
 CITY OF ANN ARBOR
 919 SUNSET RD. ANN ARBOR, MI 48103

REVISIONS / ADDENDA:
SCALE: N.T.S.
APPROVED BY: C.A.H.
DRAWN BY: R.M.K.F.
DATE: NOVEMBER 2018
PROJECT NUMBER: T18074
DRAWING NUMBER: E-11b



2 PARTIAL EAST ELEVATION
E-12a N.T.S.

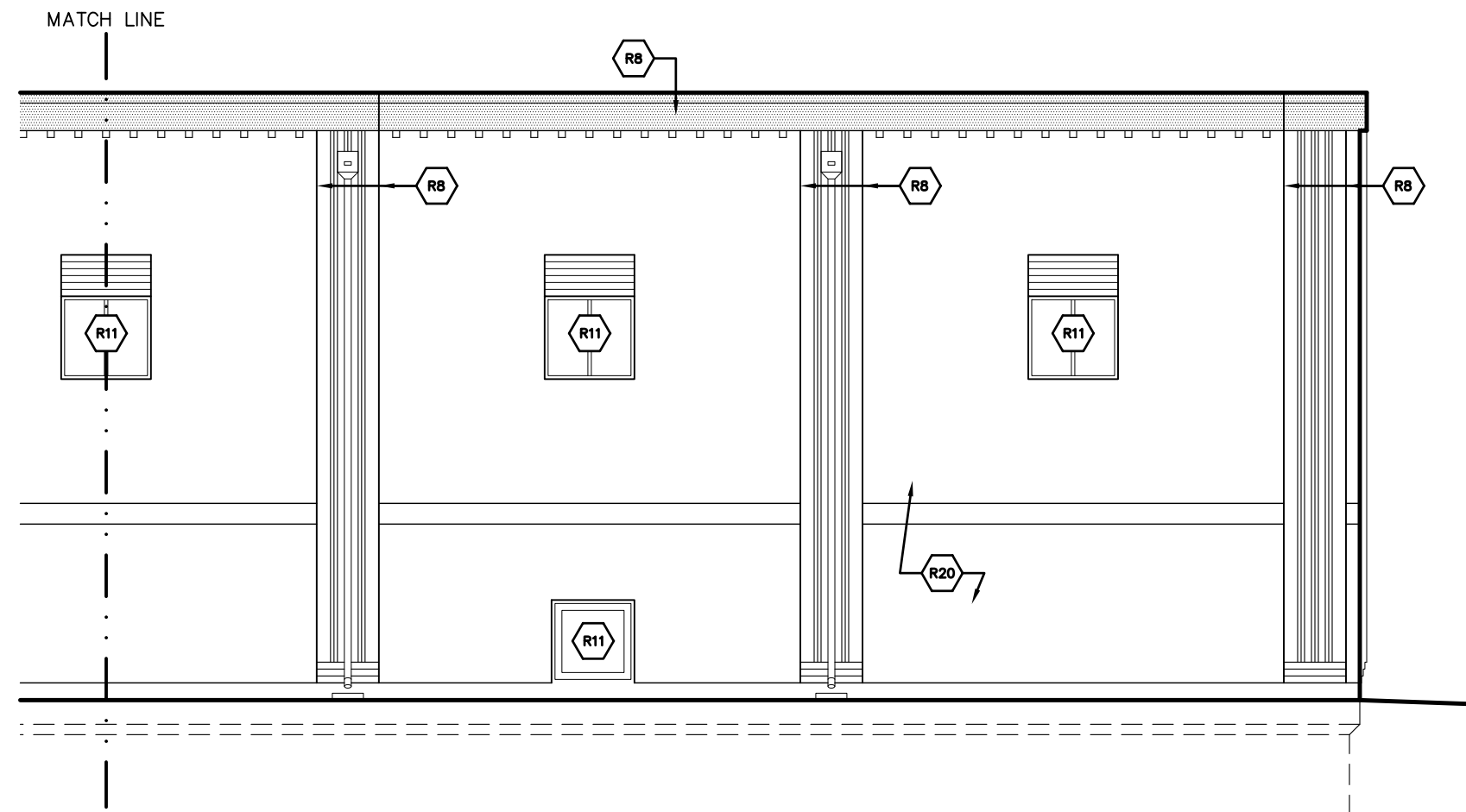
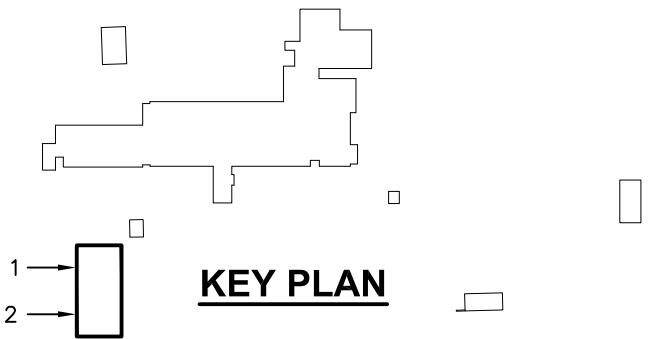


1 PARTIAL EAST ELEVATION
E-12a N.T.S.

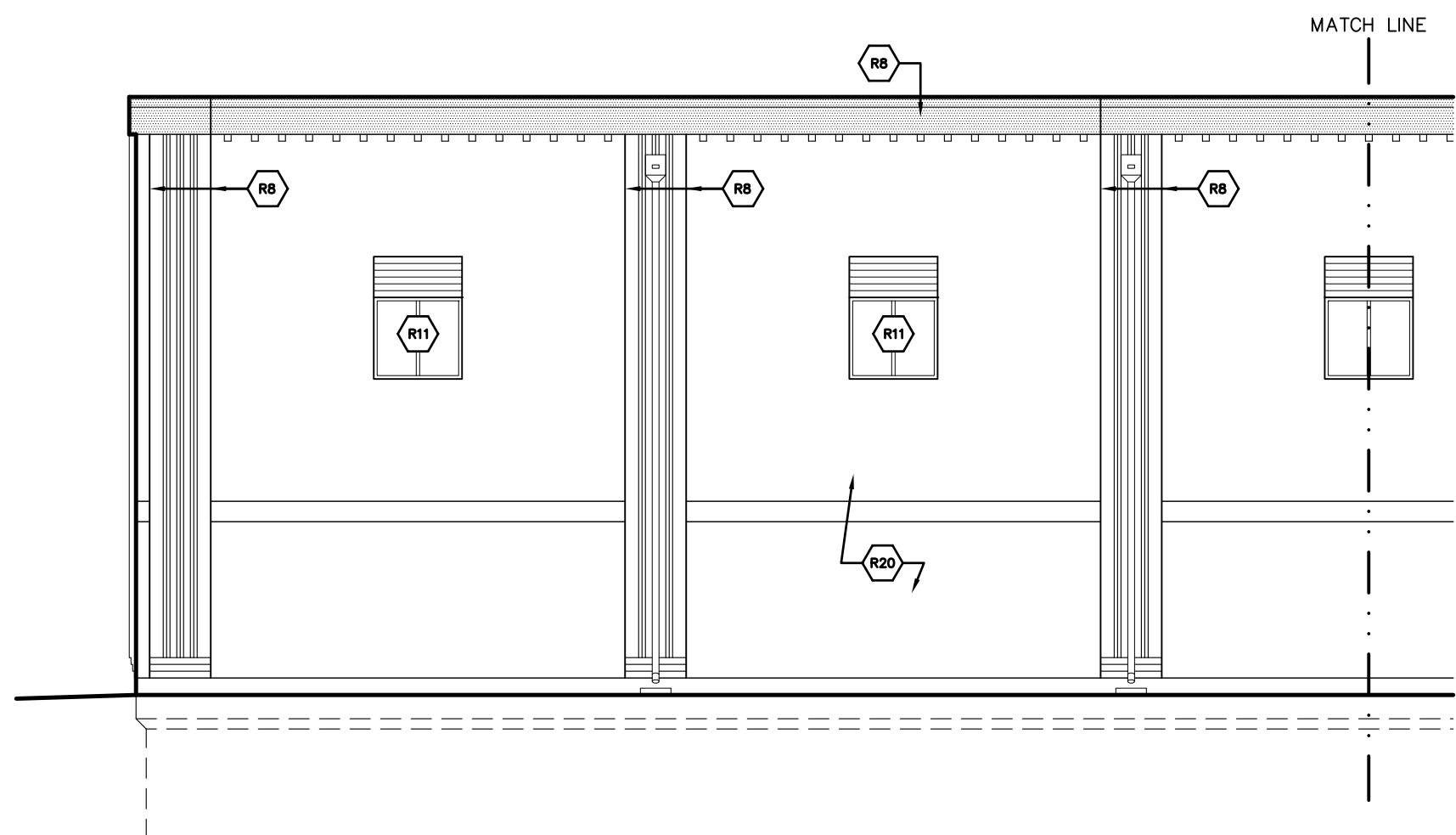
StructureTec
 Total Building Envelope Management SolutionSM
 4777 Campus Drive • Kalamazoo, MI 49008
 1121 Lake Cook Road, Ste C • Deerfield, IL 60015
 473 Airport Road, Ste 1 • Butler, PA 16002
 34119 W. Twelve Mile Road, Ste 270 • Farmington Hills, MI 48331

ELEVATIONS - OZONE BUILDING
 WATER TREATMENT PLANT
 CITY OF ANN ARBOR
 919 SUNSET RD. ANN ARBOR, MI 48103

REVISIONS / ADDENDA:
SCALE: N.T.S.
APPROVED BY: C.A.H.
DRAWN BY: R.M.K.F.
DATE: NOVEMBER 2018
PROJECT NUMBER: T18074
DRAWING NUMBER: E-12a



2 PARTIAL WEST ELEVATION
E-12b N.T.S.

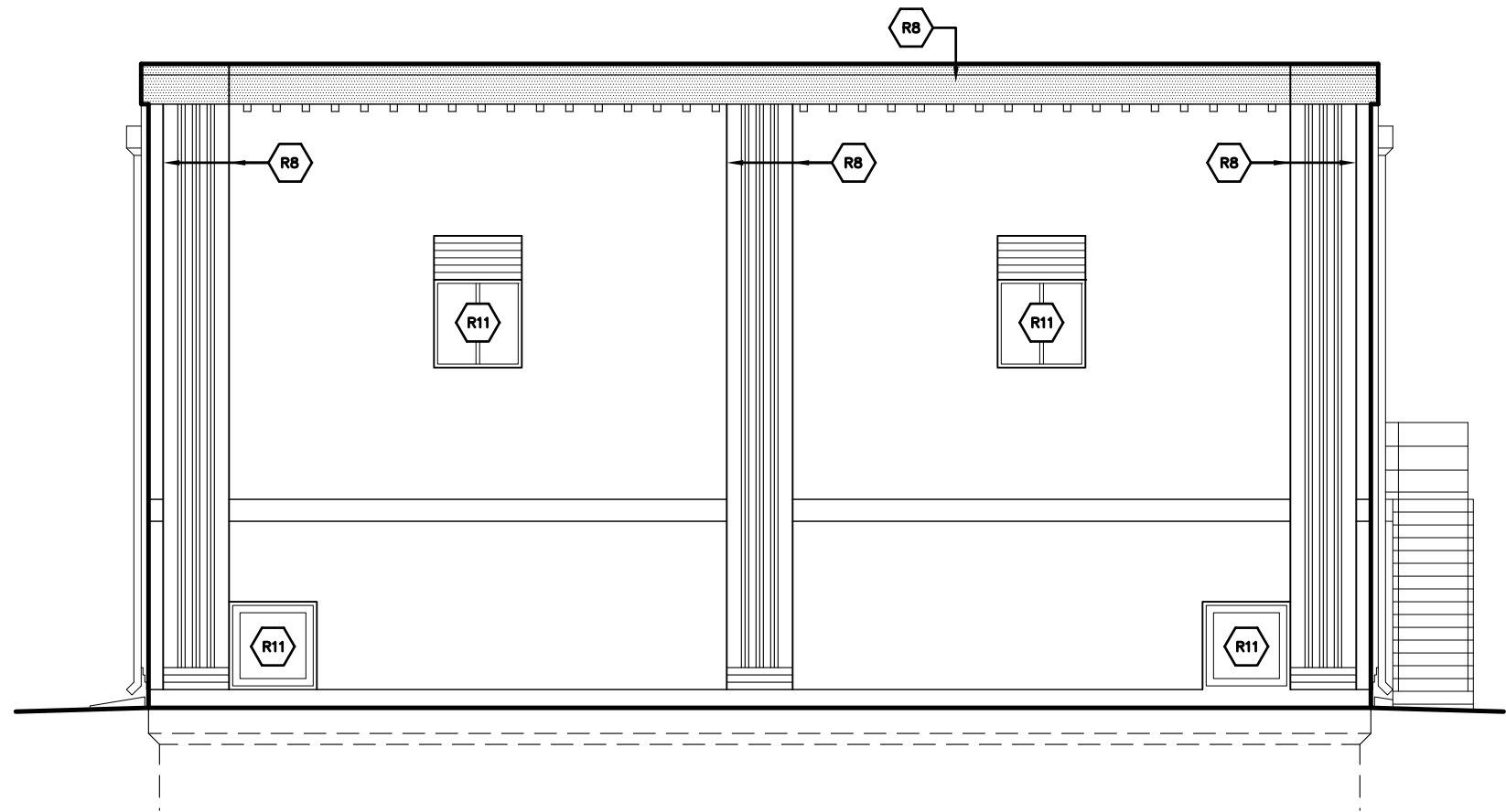
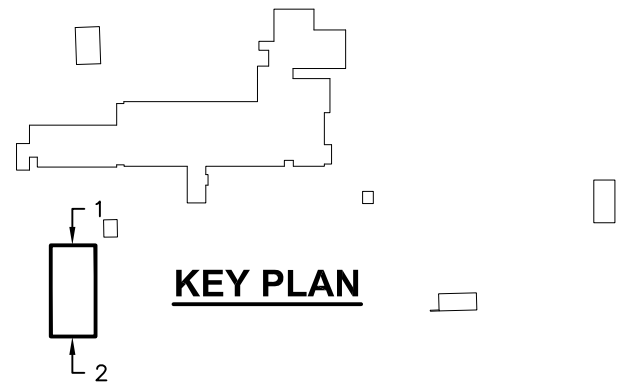


1 PARTIAL WEST ELEVATION
E-12b N.T.S.

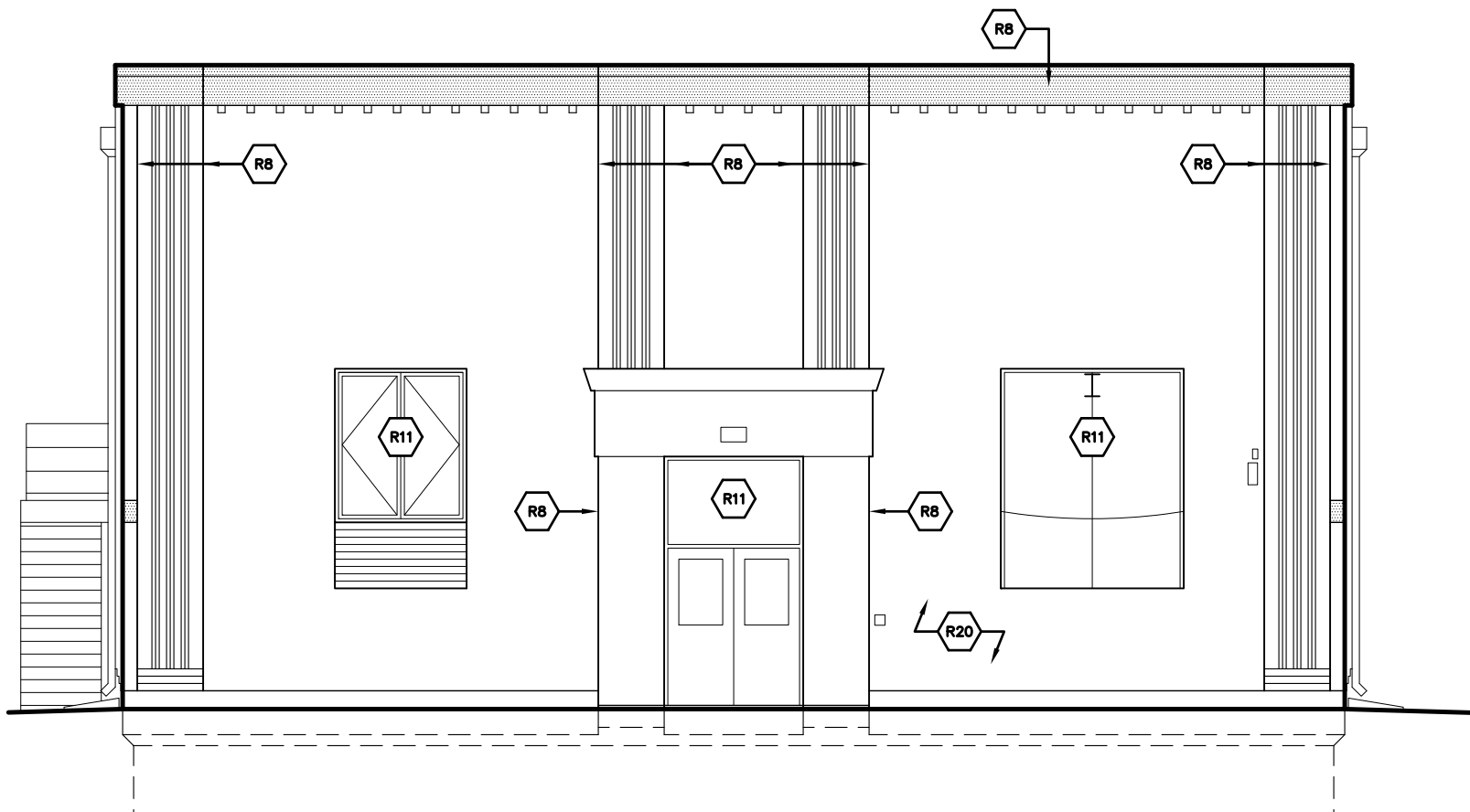
StructureTec
 Total Building Envelope Management SolutionSM
 4777 Campus Drive • Kalamazoo, MI 49008
 1121 Lake Cook Road, Ste C • Deerfield, IL 60015
 473 Airport Road, Ste 1 • Butler, PA 16002
 34119 W. Twelve Mile Road, Ste 270 • Farmington Hills, MI 48331

ELEVATIONS - OZONE BUILDING
 WATER TREATMENT PLANT
 CITY OF ANN ARBOR
 919 SUNSET RD. ANN ARBOR, MI 48103

REVISIONS / ADDENDA:
SCALE: N.T.S.
APPROVED BY: C.A.H.
DRAWN BY: R.M.K.F.
DATE: NOVEMBER 2018
PROJECT NUMBER: T18074
DRAWING NUMBER: E-12b



2 SOUTH ELEVATION
E-12c N.T.S.



1 NORTH ELEVATION
E-12c N.T.S.

StructureTec
 Total Building Envelope Management SolutionSM
 4777 Campus Drive • Kalamazoo, MI 49008
 1121 Lake Cook Road, Ste C • Deerfield, IL 60015
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ELEVATIONS - OZONE BUILDING

WATER TREATMENT PLANT
 CITY OF ANN ARBOR
 919 SUNSET RD. ANN ARBOR, MI 48103

REVISIONS / ADDENDA:

SCALE:

N.T.S.

APPROVED BY:

C.A.H.

DRAWN BY:

R.M.K.F.

DATE:

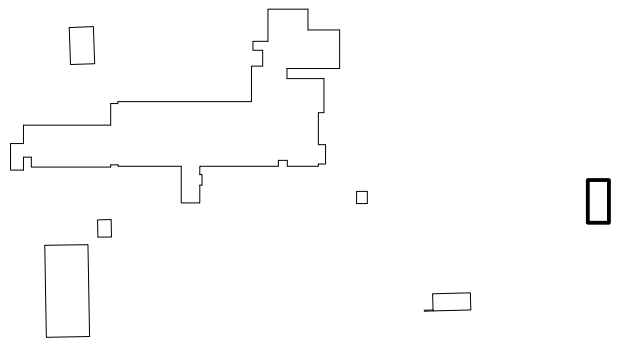
NOVEMBER 2018

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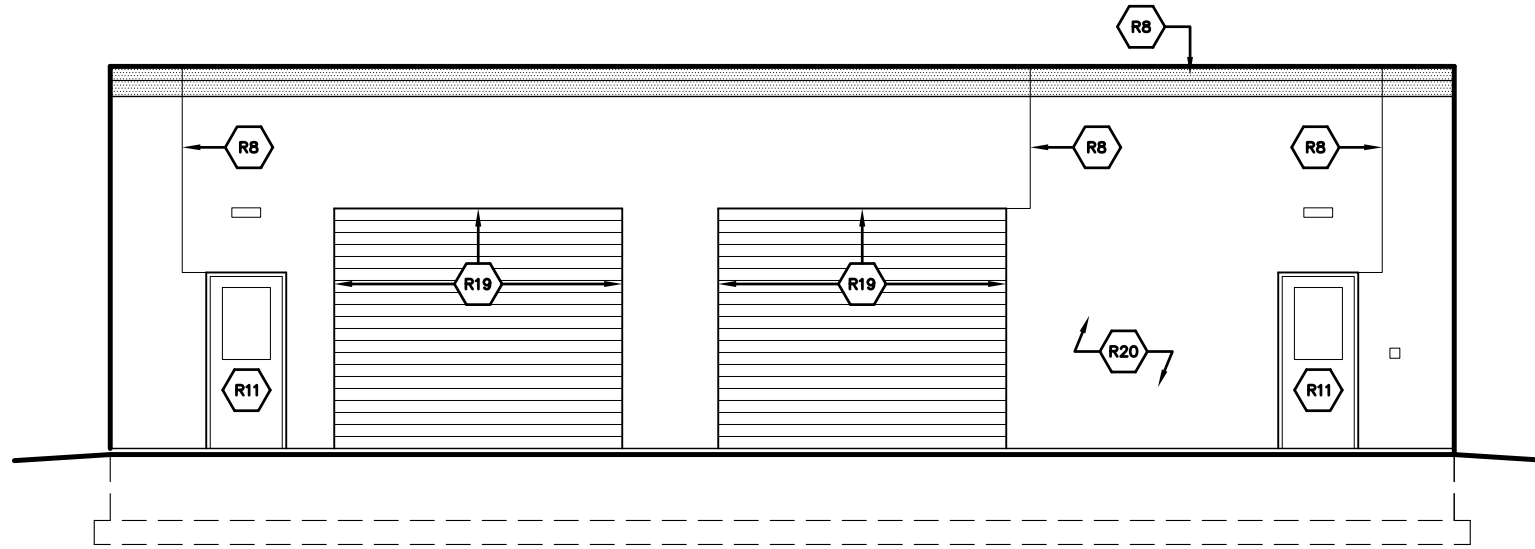
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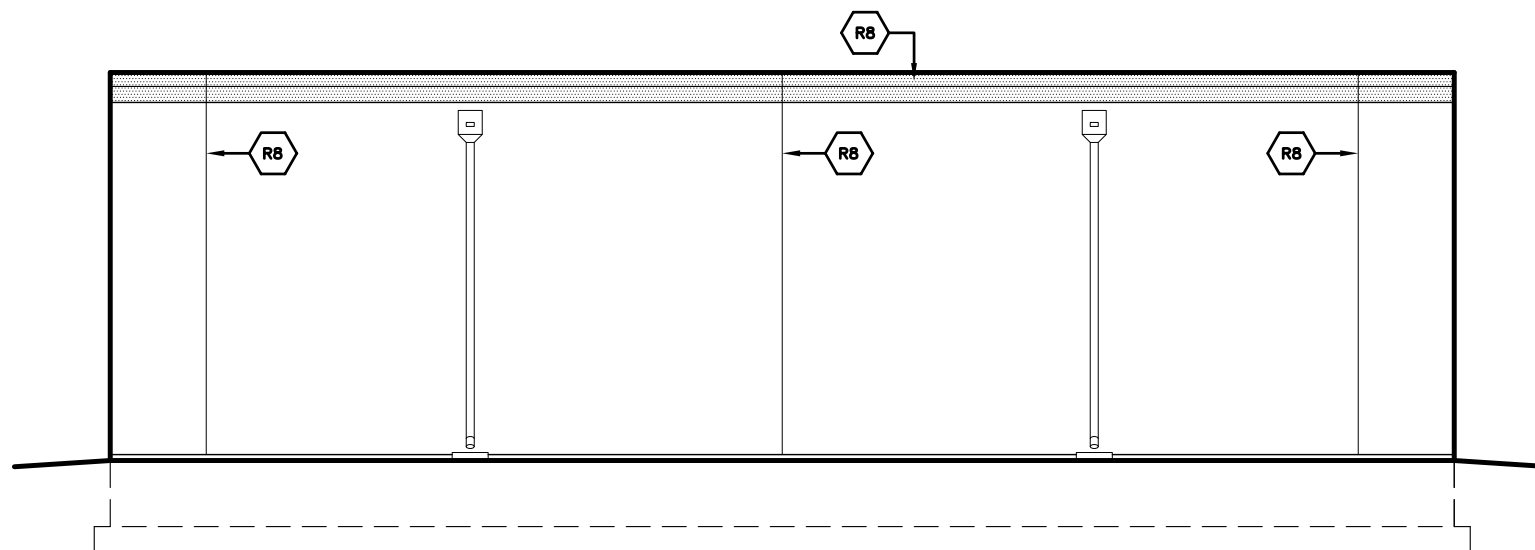
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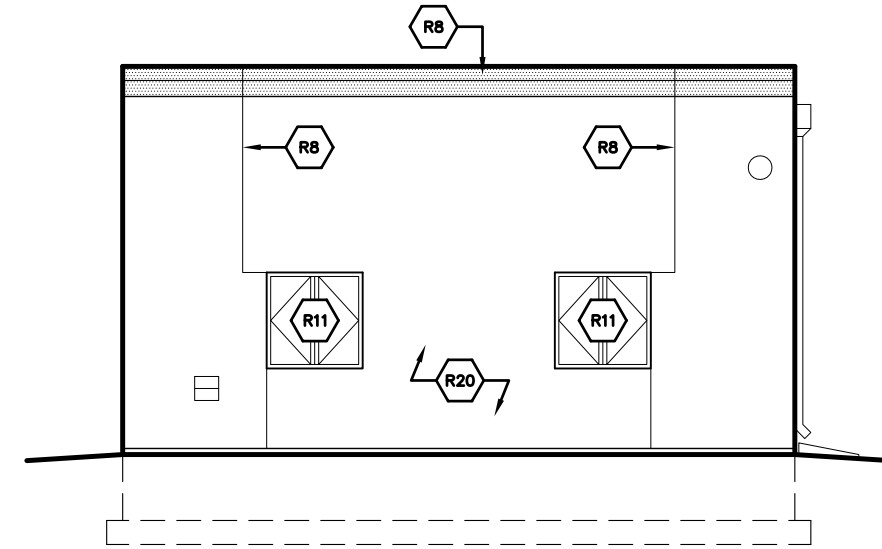
KEY PLAN



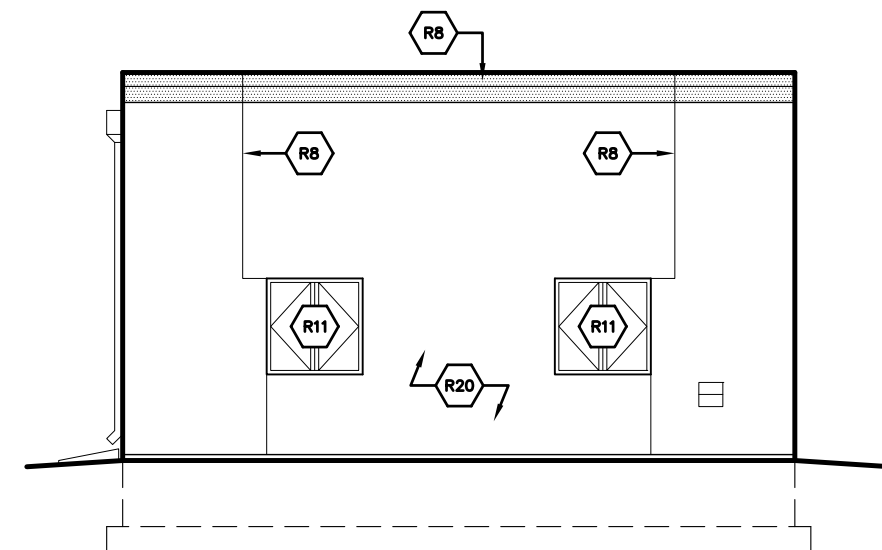
4 WEST ELEVATION
E-13 N.T.S.



2 EAST ELEVATION
E-13 N.T.S.



3 SOUTH ELEVATION
E-13 N.T.S.



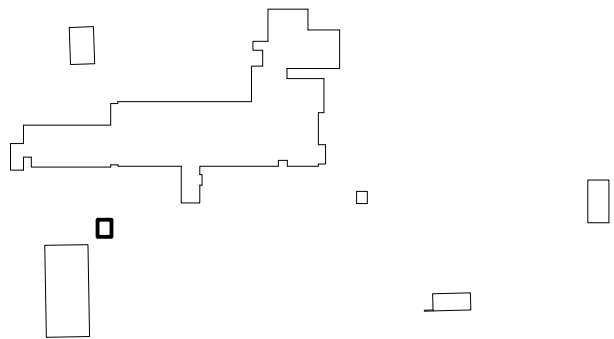
1 NORTH ELEVATION
E-13 N.T.S.

StructureTec
 Total Building Envelope Management SolutionSM
 4777 Campus Drive • Kalamazoo, MI 49008
 1121 Lake Cook Road, Ste C • Deerfield, IL 60015
 473 Airport Road, Ste 1 • Butler, PA 16002
 34119 W. Twelve Mile Road, Ste 270 • Farmington Hills, MI 48331

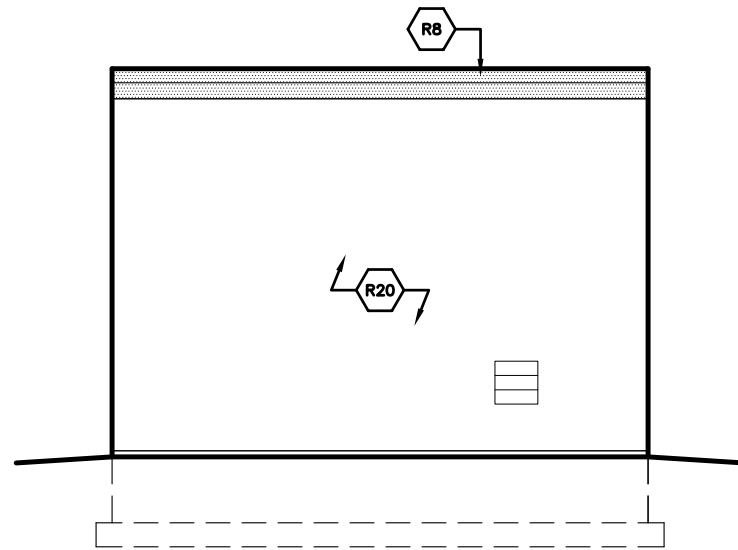
ELEVATIONS - MAINTENANCE BUILDING

WATER TREATMENT PLANT
 CITY OF ANN ARBOR
 919 SUNSET RD. ANN ARBOR, MI 48103

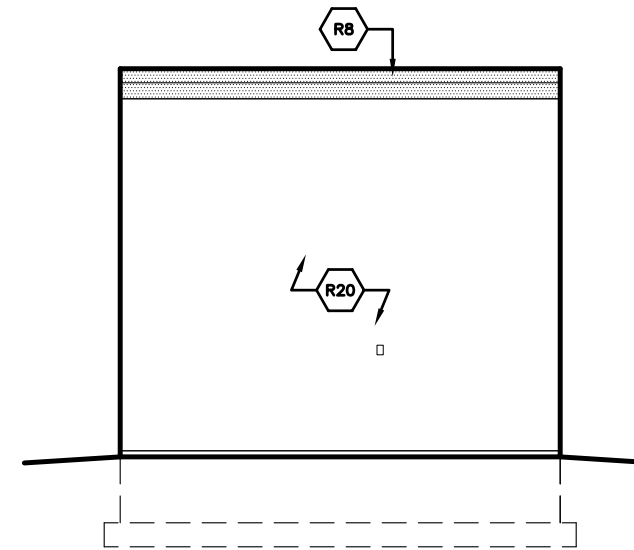
REVISIONS / ADDENDA:
SCALE:
N.T.S.
APPROVED BY:
C.A.H.
DRAWN BY:
R.M.K.F.
DATE:
NOVEMBER 2018
PROJECT NUMBER:
T18074
DRAWING NUMBER:
E-13



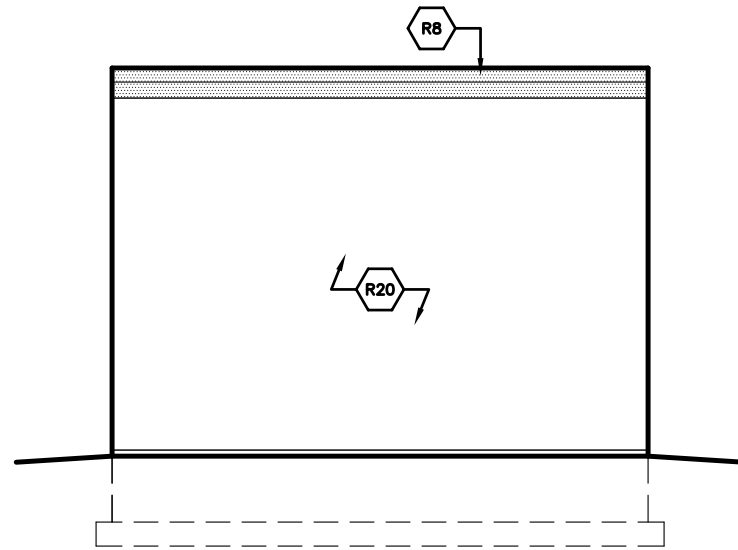
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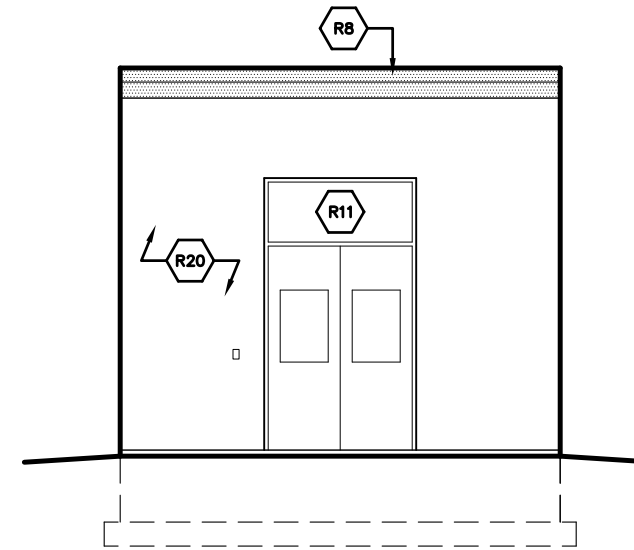
4 WEST ELEVATION
E-14 N.T.S.



3 SOUTH ELEVATION
E-14 N.T.S.



2 EAST ELEVATION
E-14 N.T.S.

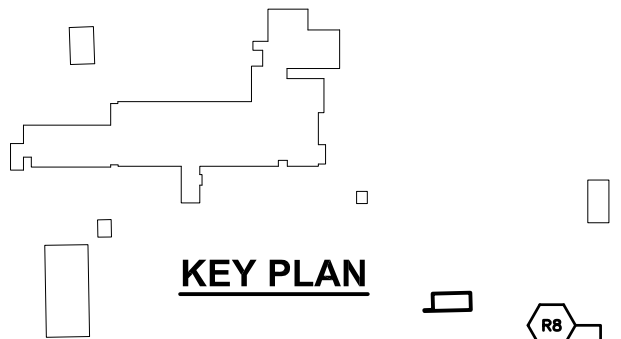


1 NORTH ELEVATION
E-14 N.T.S.

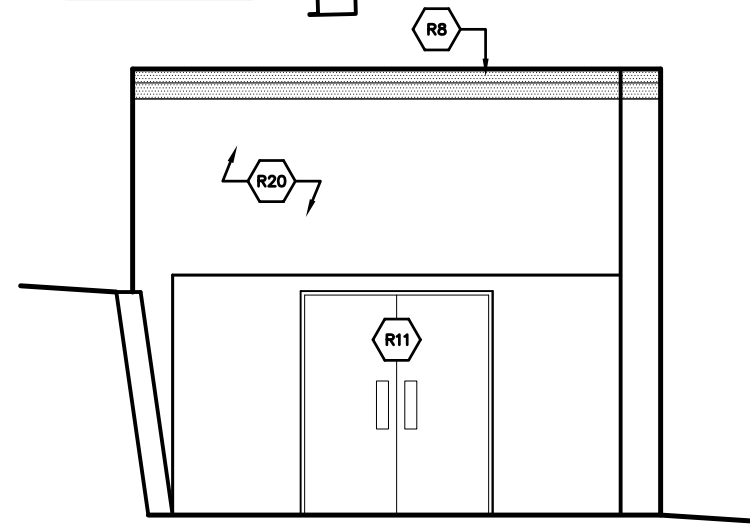
StructureTec
 Total Building Envelope Management SolutionSM
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 473 Airport Road, Ste 1 • Butler, PA 16002
 34119 W. Twelve Mile Road, Ste 270 • Farmington Hills, MI 48331

ELEVATIONS – RE-CARB BUILDING
 WATER TREATMENT PLANT
 CITY OF ANN ARBOR
 919 SUNSET RD. ANN ARBOR, MI 48103

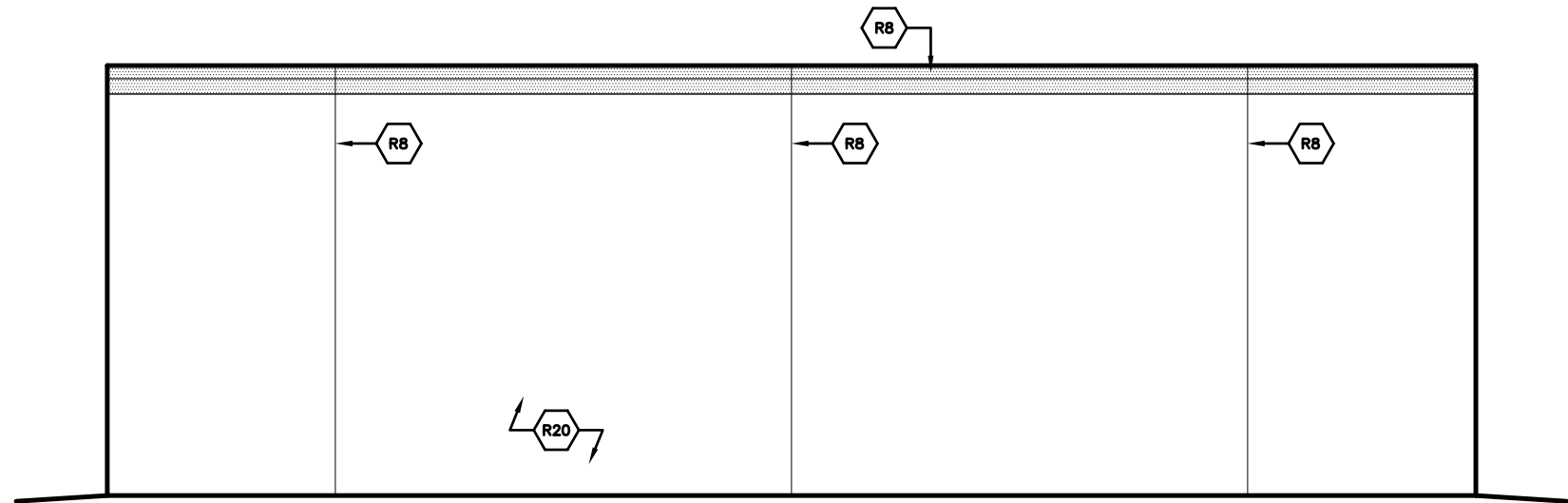
REVISIONS / ADDENDA:
SCALE:
N.T.S.
APPROVED BY:
C.A.H.
DRAWN BY:
R.M.K.F.
DATE:
NOVEMBER 2018
PROJECT NUMBER:
T18074
DRAWING NUMBER:
E-14



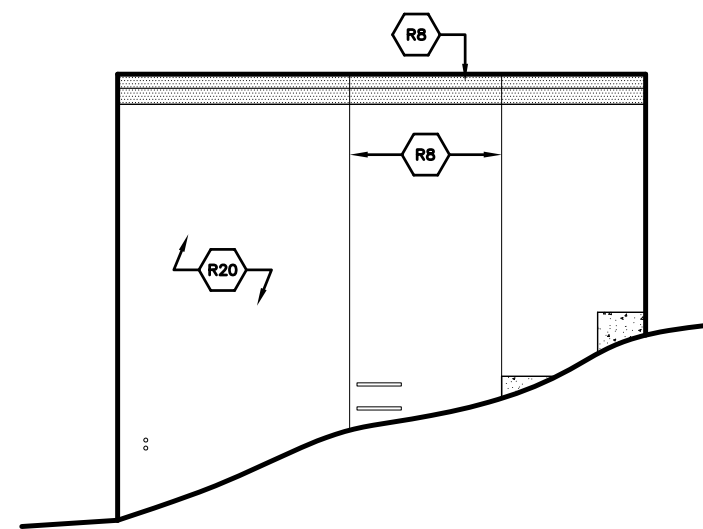
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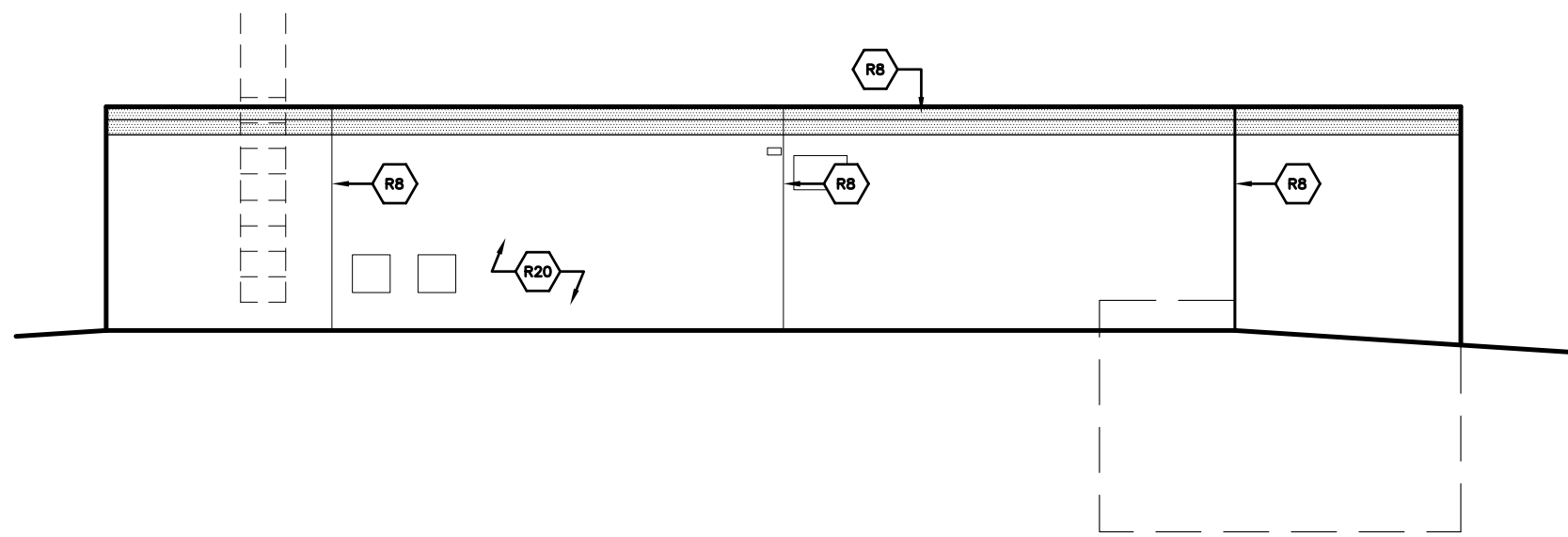
4 WEST ELEVATION
E-15 N.T.S.



3 SOUTH ELEVATION
E-15 N.T.S.



2 EAST ELEVATION
E-15 N.T.S.

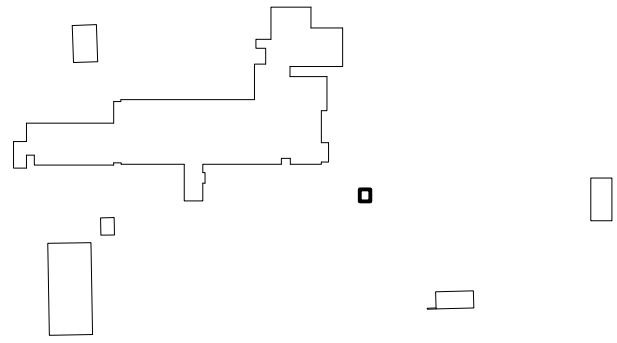


1 NORTH ELEVATION
E-15 N.T.S.

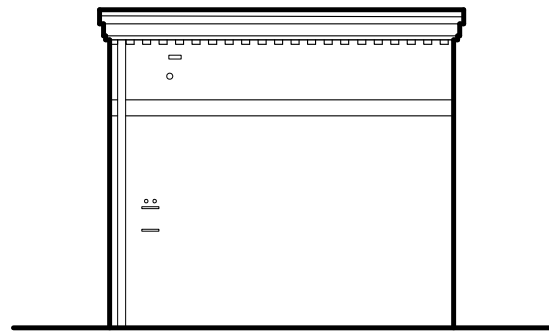
StructureTec
 Total Building Envelope Management SolutionSM
 4777 Campus Drive • Kalamazoo, MI 49008
 1121 Lake Cook Road, Ste C • Deerfield, IL 60015
 473 Airport Road, Ste 1 • Butler, PA 16002
 34119 W. Twelve Mile Road, Ste 270 • Farmington Hills, MI 48331

ELEVATIONS – GENERATOR BUILDING
 WATER TREATMENT PLANT
 CITY OF ANN ARBOR
 919 SUNSET RD. ANN ARBOR, MI 48103

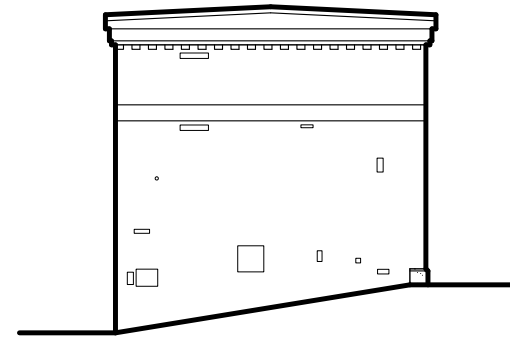
REVISIONS / ADDENDA:
SCALE:
N.T.S.
APPROVED BY:
C.A.H.
DRAWN BY:
R.M.K.F.
DATE:
NOVEMBER 2018
PROJECT NUMBER:
T18074
DRAWING NUMBER:
E-15



KEY PLAN

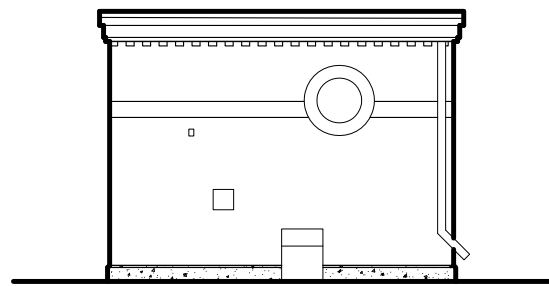


4 WEST ELEVATION
E-16 N.T.S.

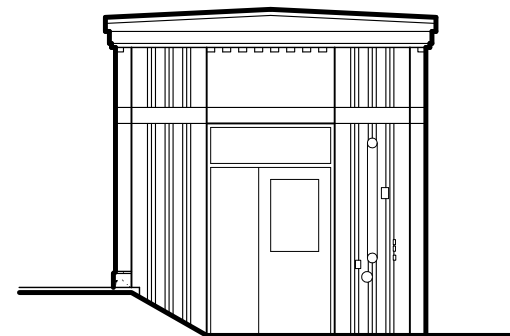


3 SOUTH ELEVATION
E-16 N.T.S.

NOTE: NO EXTERIOR WALL RESTORATION PROPOSED.



2 EAST ELEVATION
E-16 N.T.S.

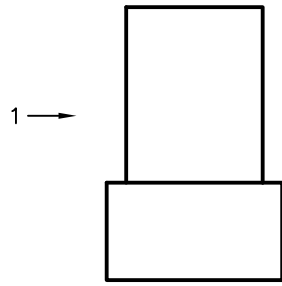


1 NORTH ELEVATION
E-16 N.T.S.

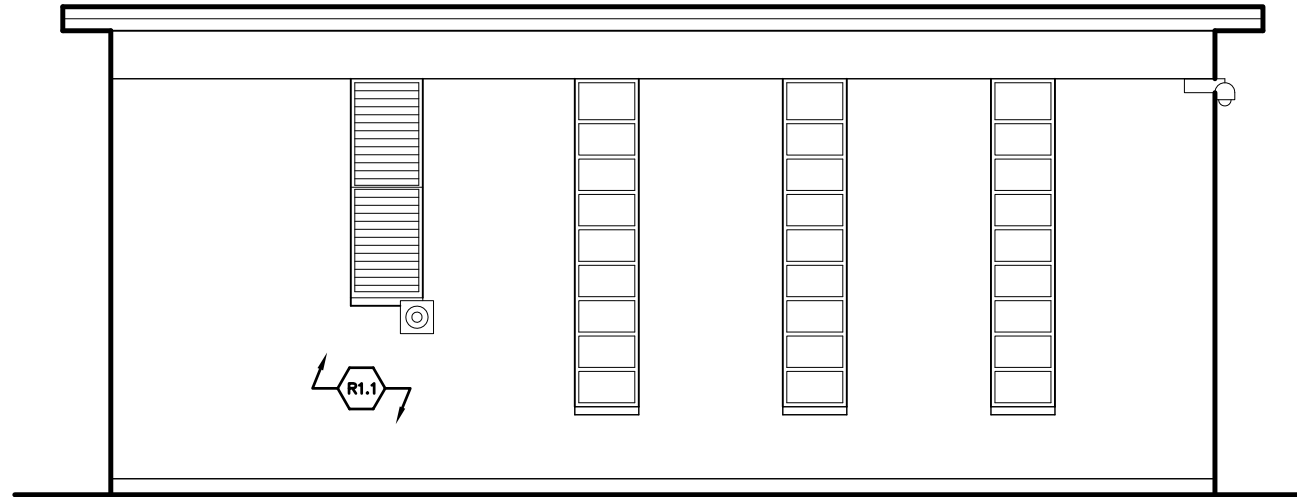
StructureTec
 Total Building Envelope Management SolutionSM
 4777 Campus Drive • Kalamazoo, MI 49008
 1121 Lake Cook Road, Ste C • Deerfield, IL 60015
 473 Airport Road, Ste 1 • Butler, PA 16002
 34119 W. Twelve Mile Road, Ste 270 • Farmington Hills, MI 48331

ELEVATIONS – AMMONIA BUILDING
 WATER TREATMENT PLANT
 CITY OF ANN ARBOR
 919 SUNSET RD. ANN ARBOR, MI 48103

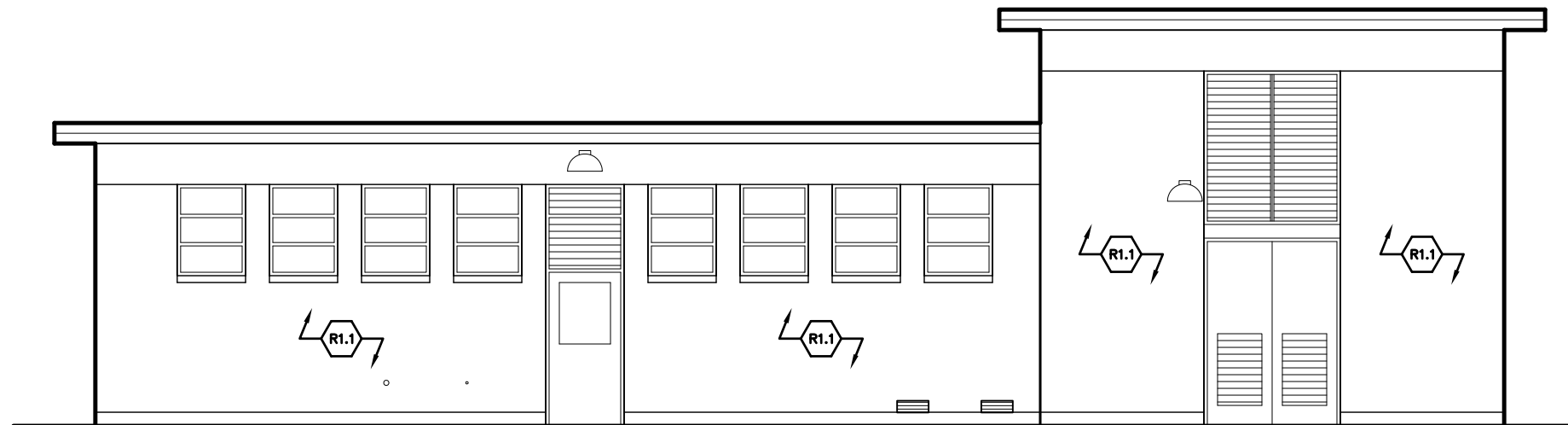
REVISIONS / ADDENDA:
SCALE: N.T.S.
APPROVED BY: C.A.H.
DRAWN BY: R.M.K.F.
DATE: NOVEMBER 2018
PROJECT NUMBER: T18074
DRAWING NUMBER: E-16



KEY PLAN



2 SOUTH ELEVATION
E-17a N.T.S.



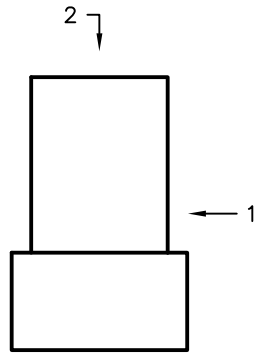
1 WEST ELEVATION
E-17a N.T.S.

StructureTec
 Total Building Envelope Management SolutionSM
 4777 Campus Drive • Kalamazoo, MI 49008
 1121 Lake Cook Road, Ste C • Deerfield, IL 60015
 473 Airport Road, Ste 1 • Butler, PA 16002
 34119 W. Twelve Mile Road, Ste 270 • Farmington Hills, MI 48331

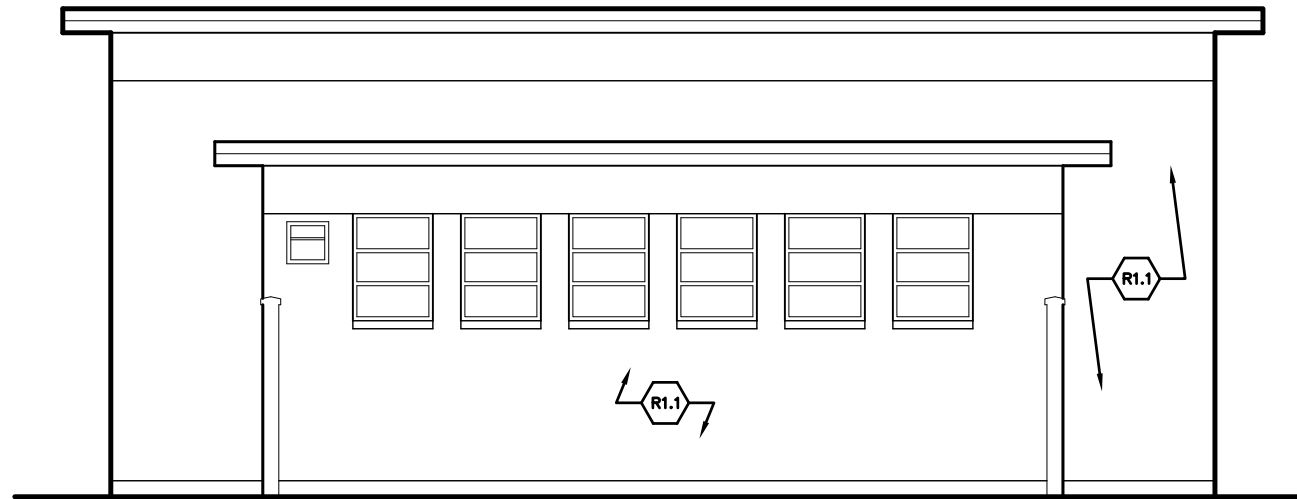
ELEVATIONS – BARTON PUMPING STATION

BARTON PUMPING STATION
 CITY OF ANN ARBOR
 1010 HURON RIVER DR. ANN ARBOR, MI 48103

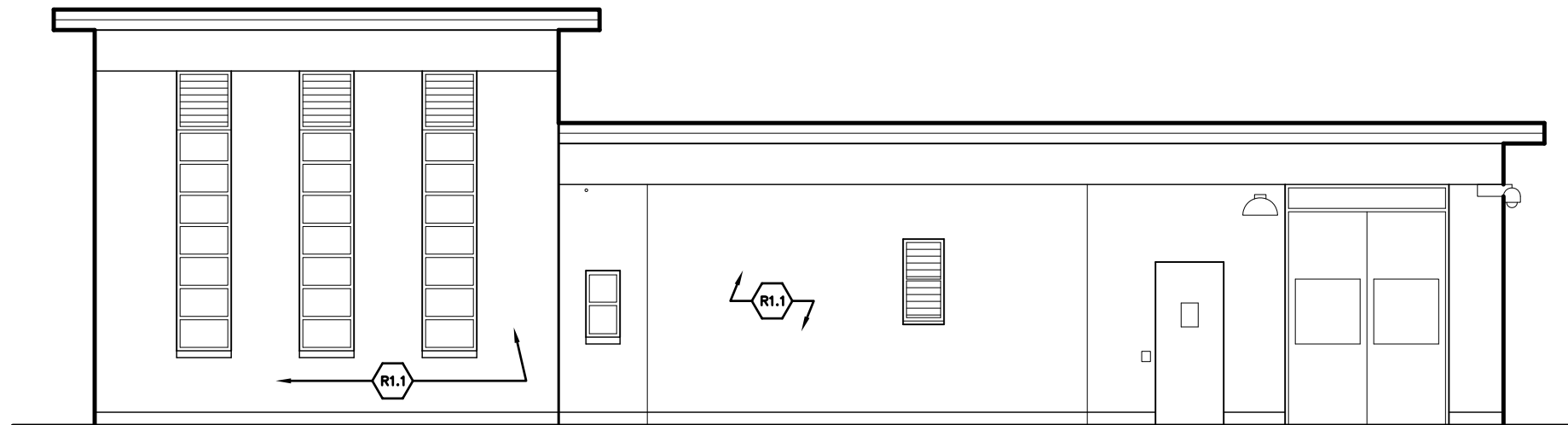
REVISIONS / ADDENDA:
SCALE:
N.T.S.
APPROVED BY:
C.A.H.
DRAWN BY:
R.M.K.F.
DATE:
NOVEMBER 2018
PROJECT NUMBER:
T18074
DRAWING NUMBER:
E-17a



KEY PLAN



2 NORTH ELEVATION
E-17b N.T.S.



1 EAST ELEVATION
E-17b N.T.S.

StructureTec
 Total Building Envelope Management SolutionSM
 4777 Campus Drive • Kalamazoo, MI 49008
 1121 Lake Cook Road, Ste C • Deerfield, IL 60015
 473 Airport Road, Ste 1 • Butler, PA 16002
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ELEVATIONS – BARTON PUMPING STATION

BARTON PUMPING STATION
 CITY OF ANN ARBOR
 1010 HURON RIVER DR. ANN ARBOR, MI 48103

REVISIONS / ADDENDA:

SCALE:

N.T.S.

APPROVED BY:

C.A.H.

DRAWN BY:

R.M.K.F.

DATE:

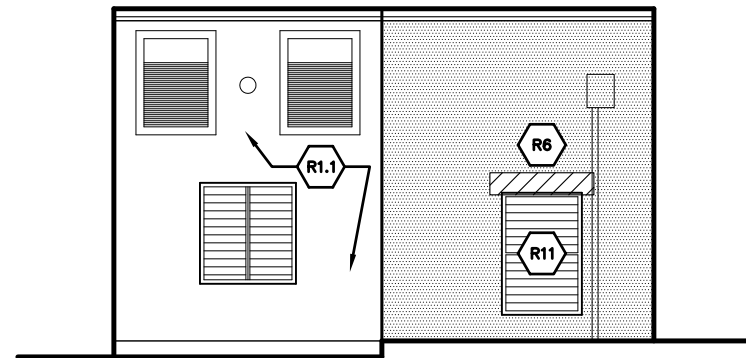
NOVEMBER 2018

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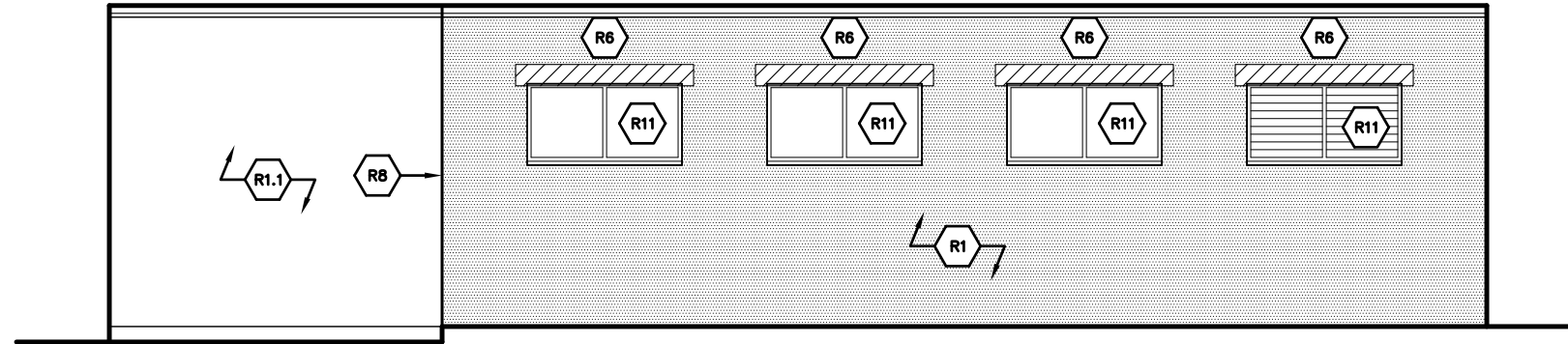
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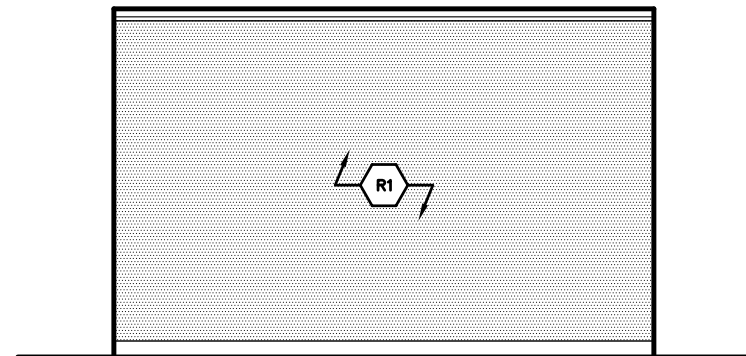
E-17b



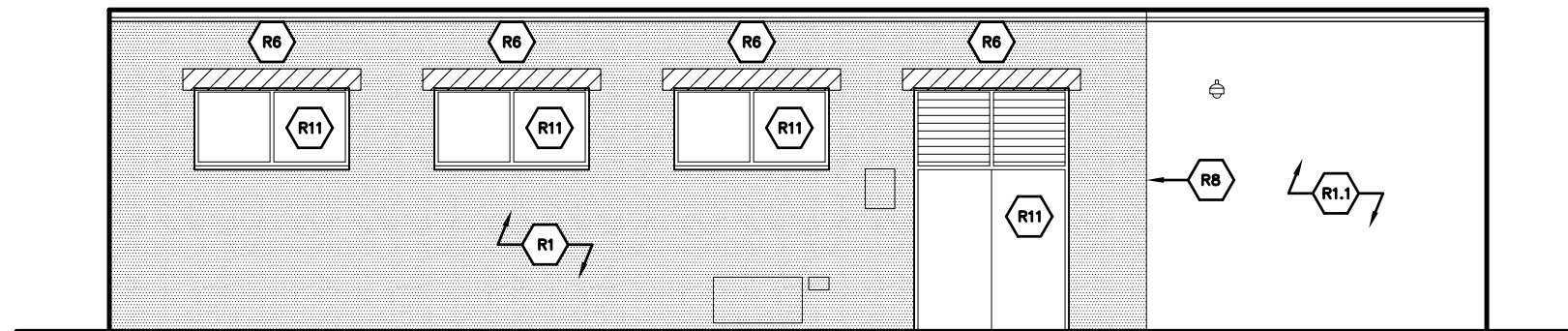
4 WEST ELEVATION
E-18 N.T.S.



3 SOUTH ELEVATION
E-18 N.T.S.



2 EAST ELEVATION
E-18 N.T.S.



1 NORTH ELEVATION
E-18 N.T.S.

StructureTec

Total Building Envelope Management SolutionSM

4777 Campus Drive • Kalamazoo, MI 49008

1121 Lake Cook Road, Ste C • Deerfield, IL 60015

473 Airport Road, Ste 1 • Butler, PA 16002

34119 W. Twelve Mile Road, Ste 270 • Farmington Hills, MI 48331

ELEVATIONS - INDUSTRIAL PUMPING STATION

INDUSTRIAL PUMPING STATION
CITY OF ANN ARBOR
1990 S. INDUSTRIAL HWY. ANN ARBOR, MI 48104

REVISIONS / ADDENDA:

SCALE:

N.T.S.

APPROVED BY:

C.A.H.

DRAWN BY:

R.M.K.F.

DATE:

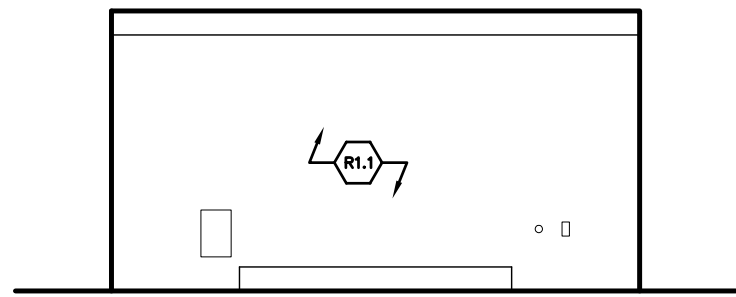
NOVEMBER 2018

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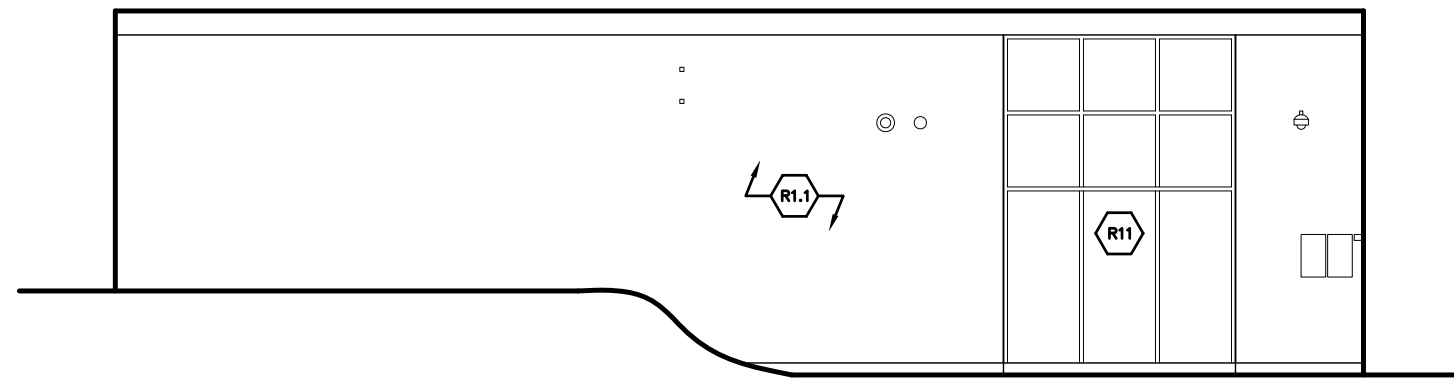
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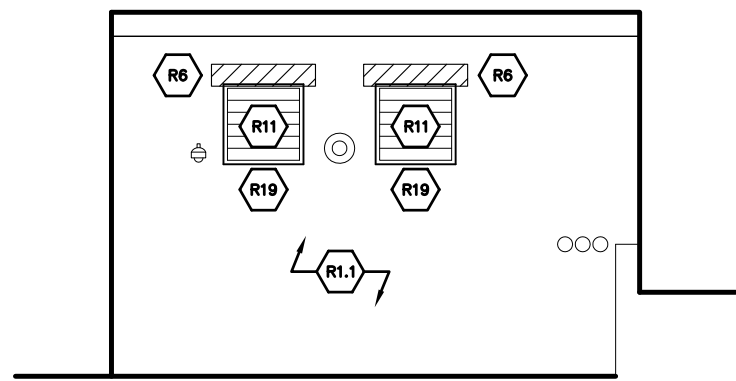
E-18



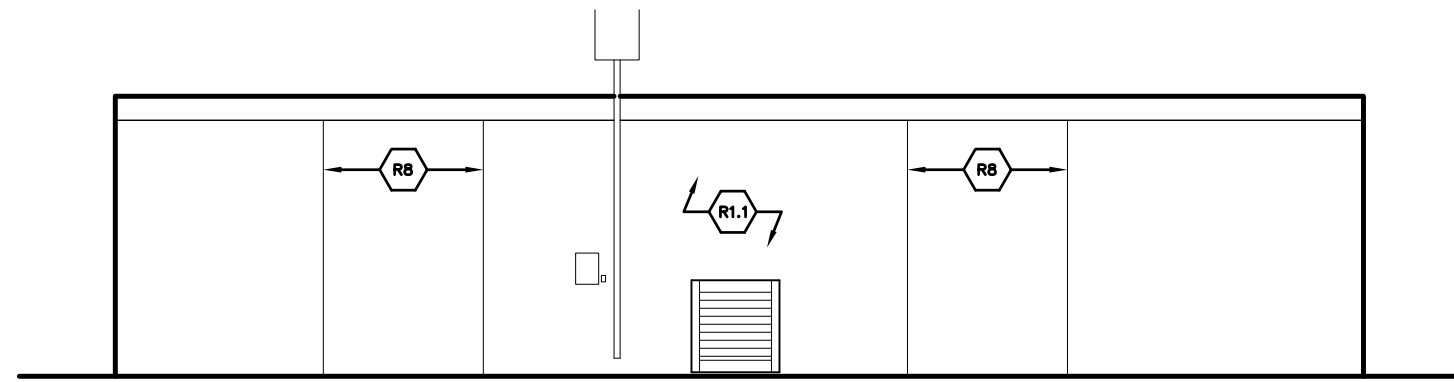
4 WEST ELEVATION
 E-19 N.T.S.



3 SOUTH ELEVATION
 E-19 N.T.S.



2 EAST ELEVATION
 E-19 N.T.S.

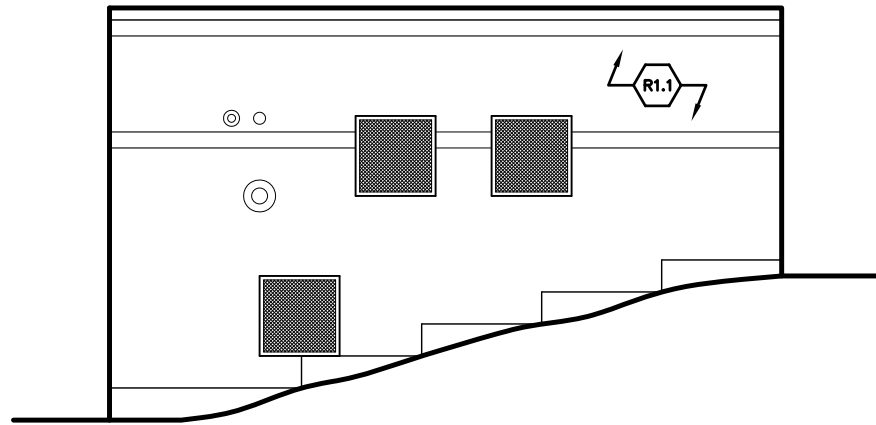


1 NORTH ELEVATION
 E-19 N.T.S.

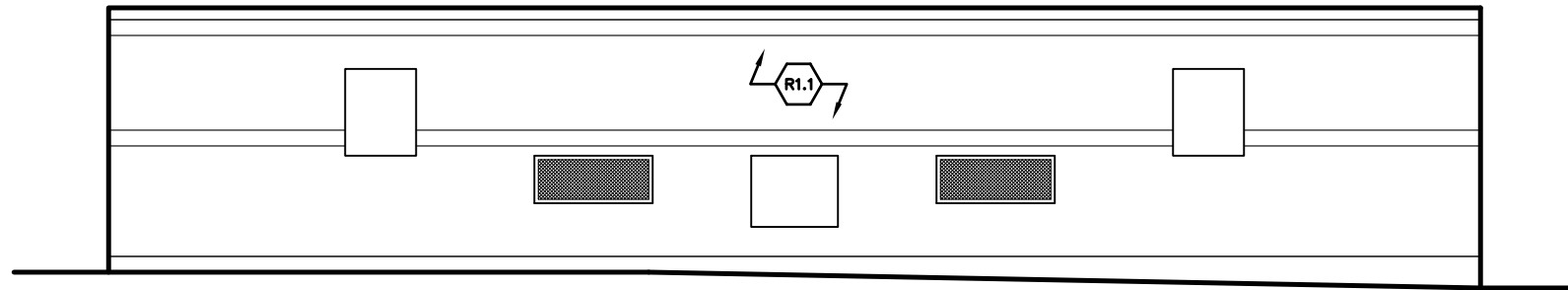
ELEVATIONS – NORTH CAMPUS PUMPING STATION

NORTH CAMPUS PUMPING STATION
 CITY OF ANN ARBOR
 1800 BEAL AVE. ANN ARBOR, MI 48105

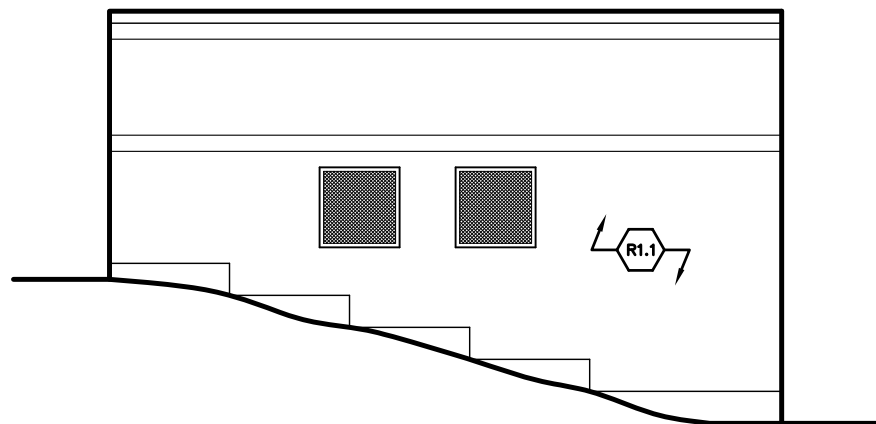
REVISIONS / ADDENDA:
SCALE: N.T.S.
APPROVED BY: C.A.H.
DRAWN BY: R.M.K.F.
DATE: NOVEMBER 2018
PROJECT NUMBER: T18074
DRAWING NUMBER: E-19



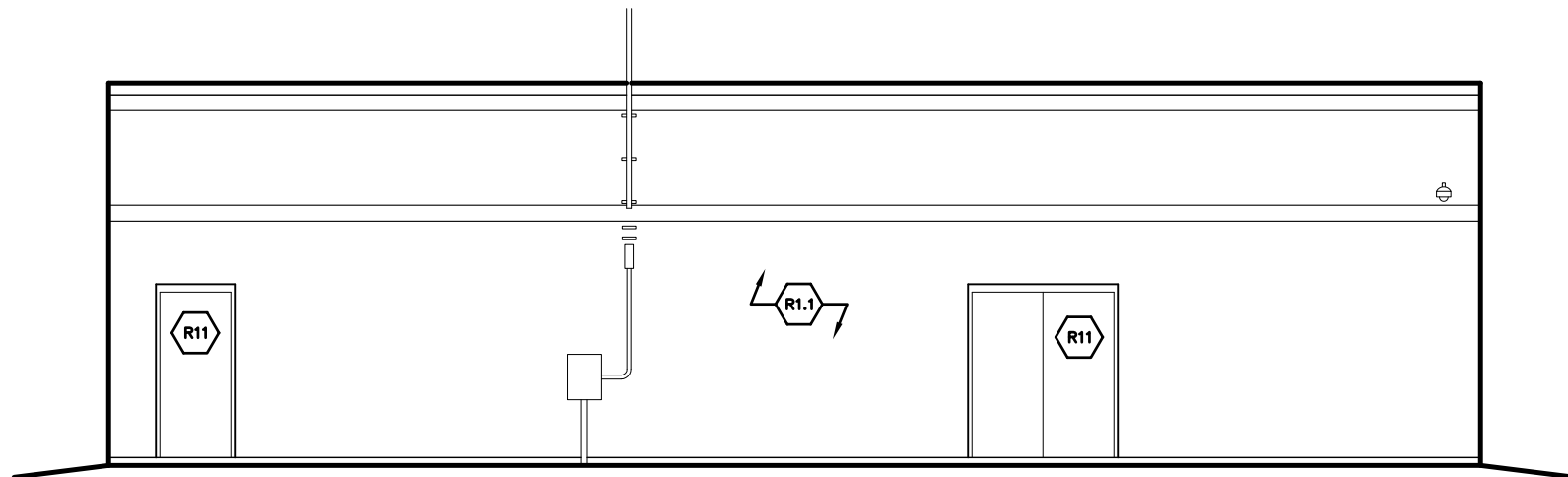
4 WEST ELEVATION
E-20 N.T.S.



3 SOUTH ELEVATION
E-20 N.T.S.



2 EAST ELEVATION
E-20 N.T.S.

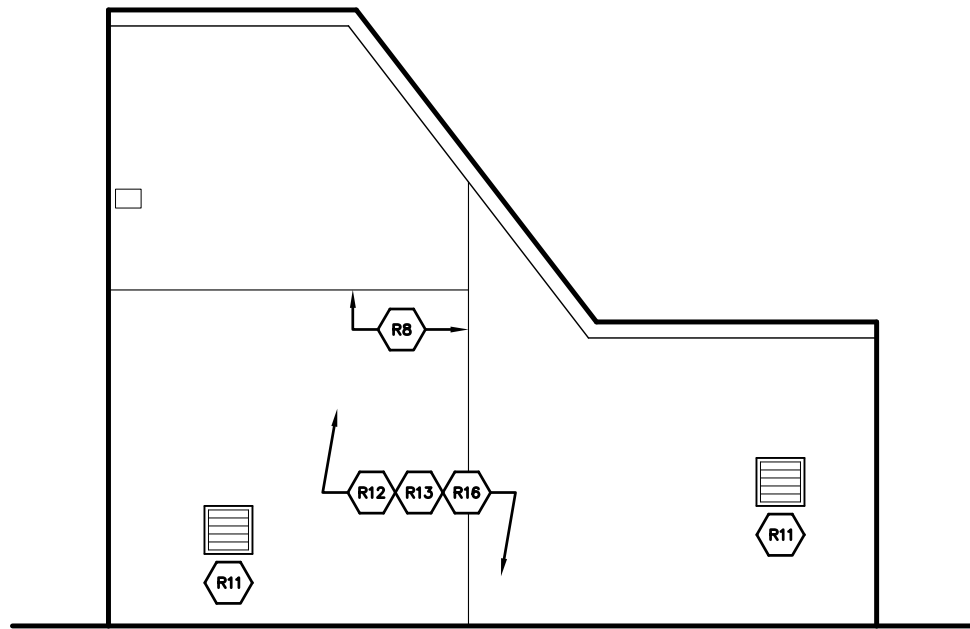


1 NORTH ELEVATION
E-20 N.T.S.

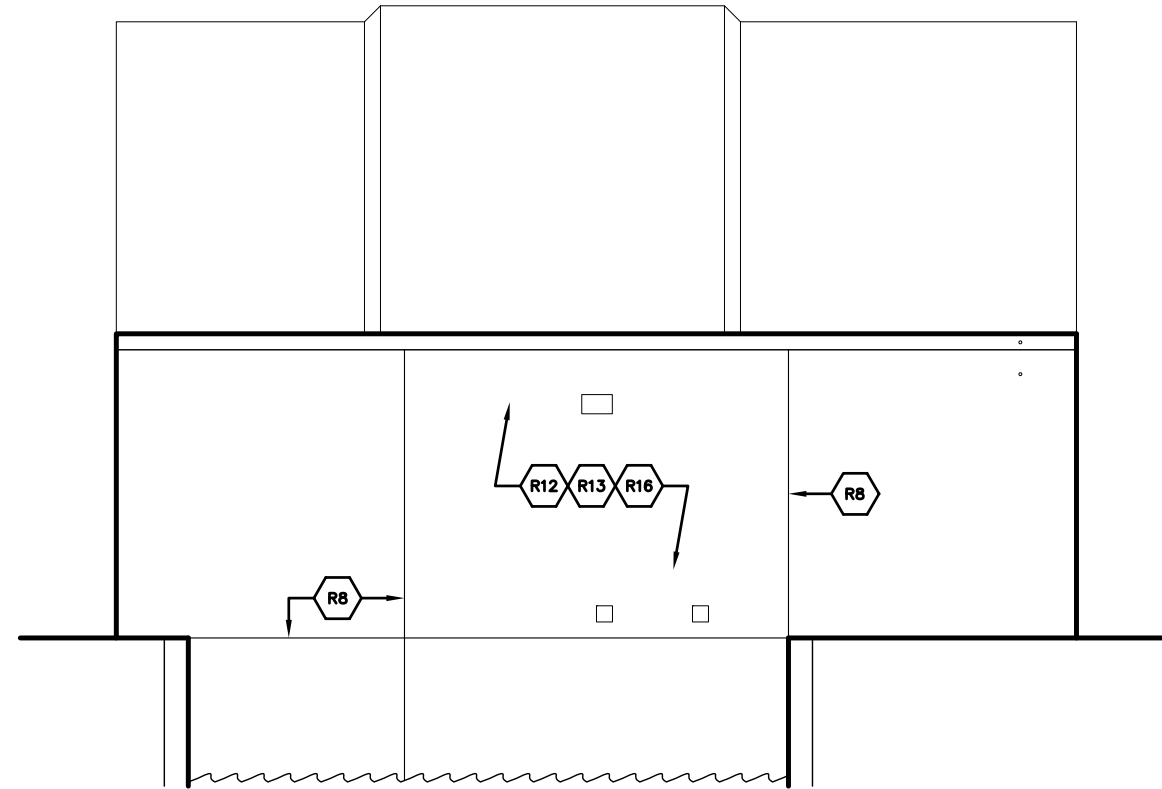
StructureTec
Total Building Envelope Management SolutionSM
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 1121 Lake Cook Road, Ste C • Deerfield, IL 60015
 473 Airport Road, Ste 1 • Butler, PA 16002
 34119 W. Twelve Mile Road, Ste 270 • Farmington Hills, MI 48331

ELEVATIONS – LIBERTY PUMPING STATION
 LIBERTY PUMPING STATION
 CITY OF ANN ARBOR
 2675 WEST LIBERTY ST. ANN ARBOR, MI 48103

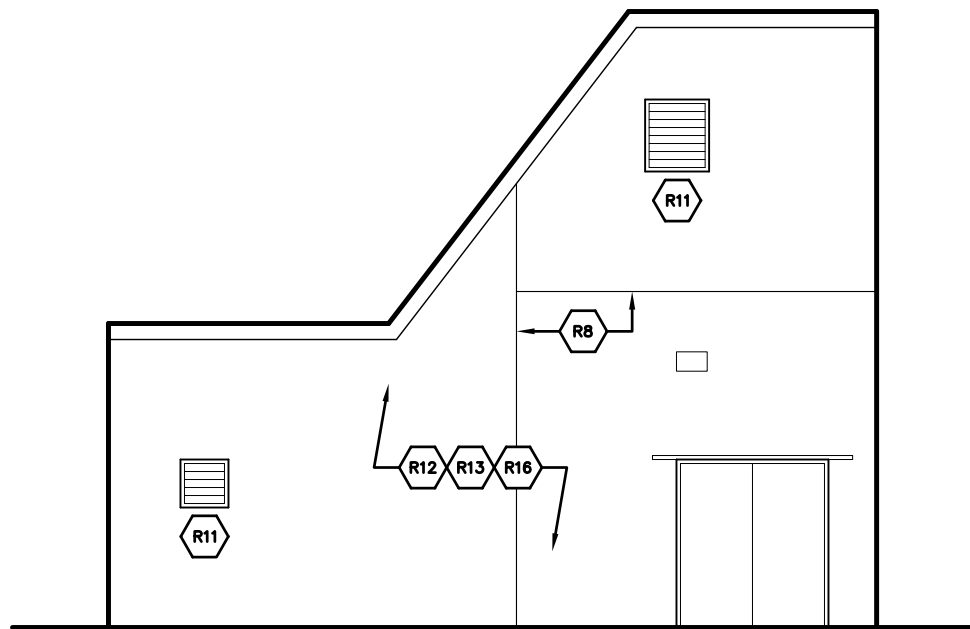
REVISIONS / ADDENDA:
SCALE: N.T.S.
APPROVED BY: C.A.H.
DRAWN BY: R.M.K.F.
DATE: NOVEMBER 2018
PROJECT NUMBER: T18074
DRAWING NUMBER: E-20



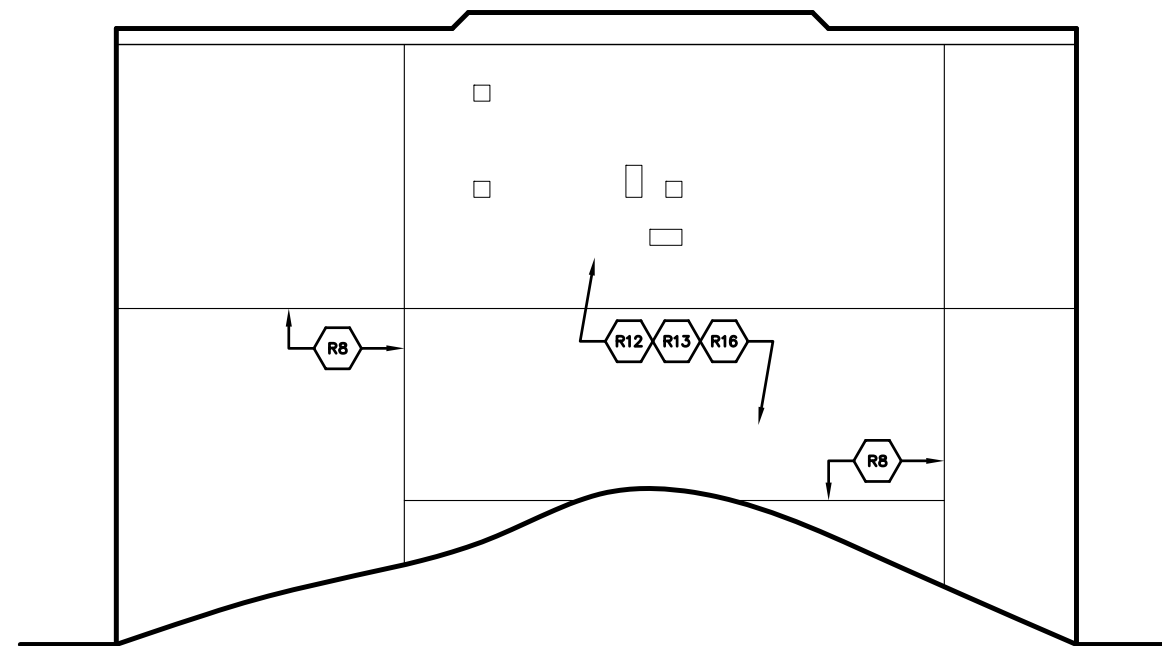
4 WEST ELEVATION
E-21 N.T.S.



3 SOUTH ELEVATION
E-21 N.T.S.



2 EAST ELEVATION
E-21 N.T.S.



1 NORTH ELEVATION
E-21 N.T.S.

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ELEVATIONS – SUPERIOR HYDRO ELECTRIC BUILDING

SUPERIOR HYDROELECTRIC BUILDING
 CITY OF ANN ARBOR
 6000 FIRST ST. SUPERIOR CHARTER TWP., MI 48198

REVISIONS / ADDENDA:

SCALE:

N.T.S.

APPROVED BY:

C.A.H.

DRAWN BY:

R.M.K.F.

DATE:

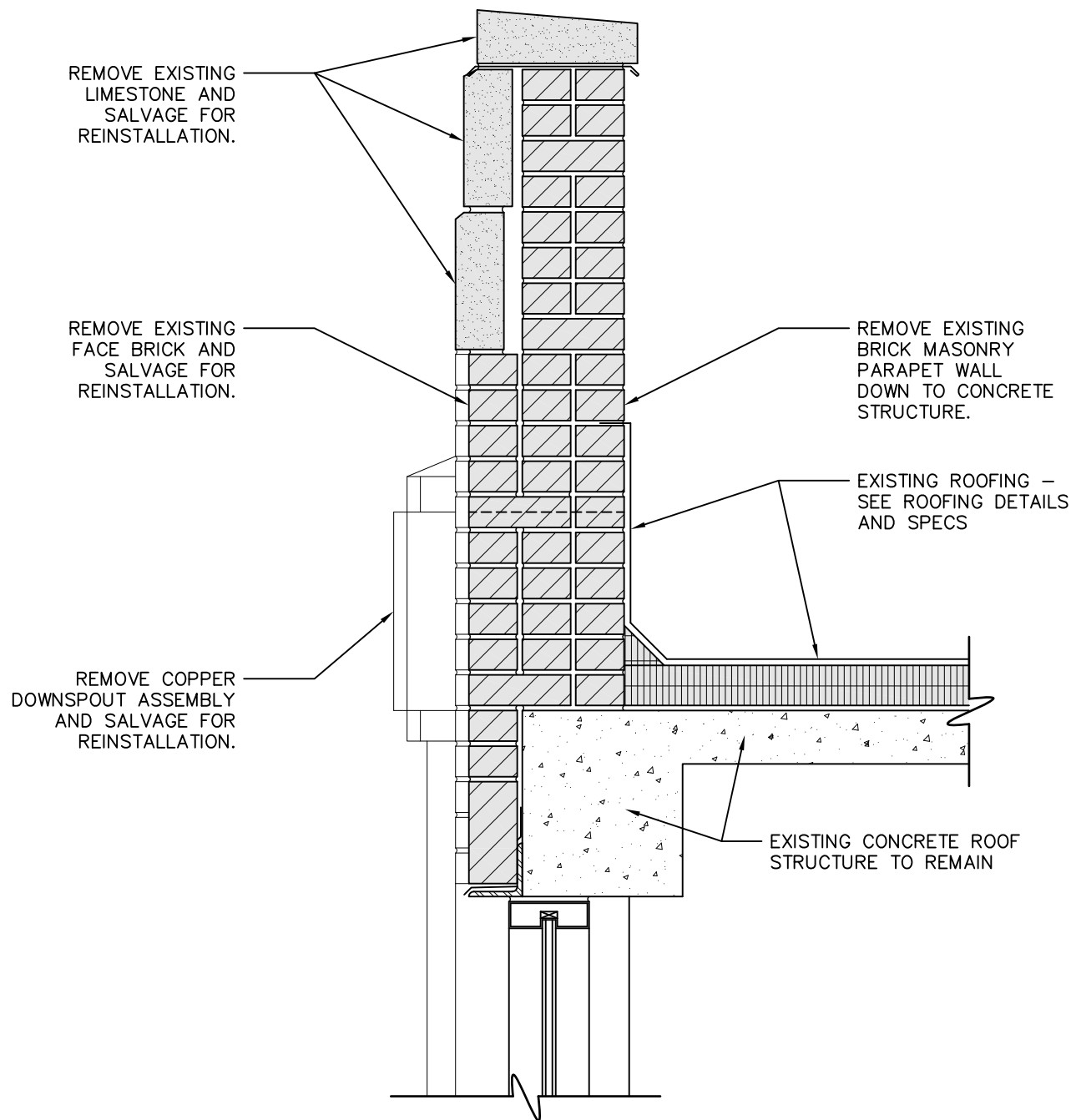
NOVEMBER 2018

PROJECT NUMBER:

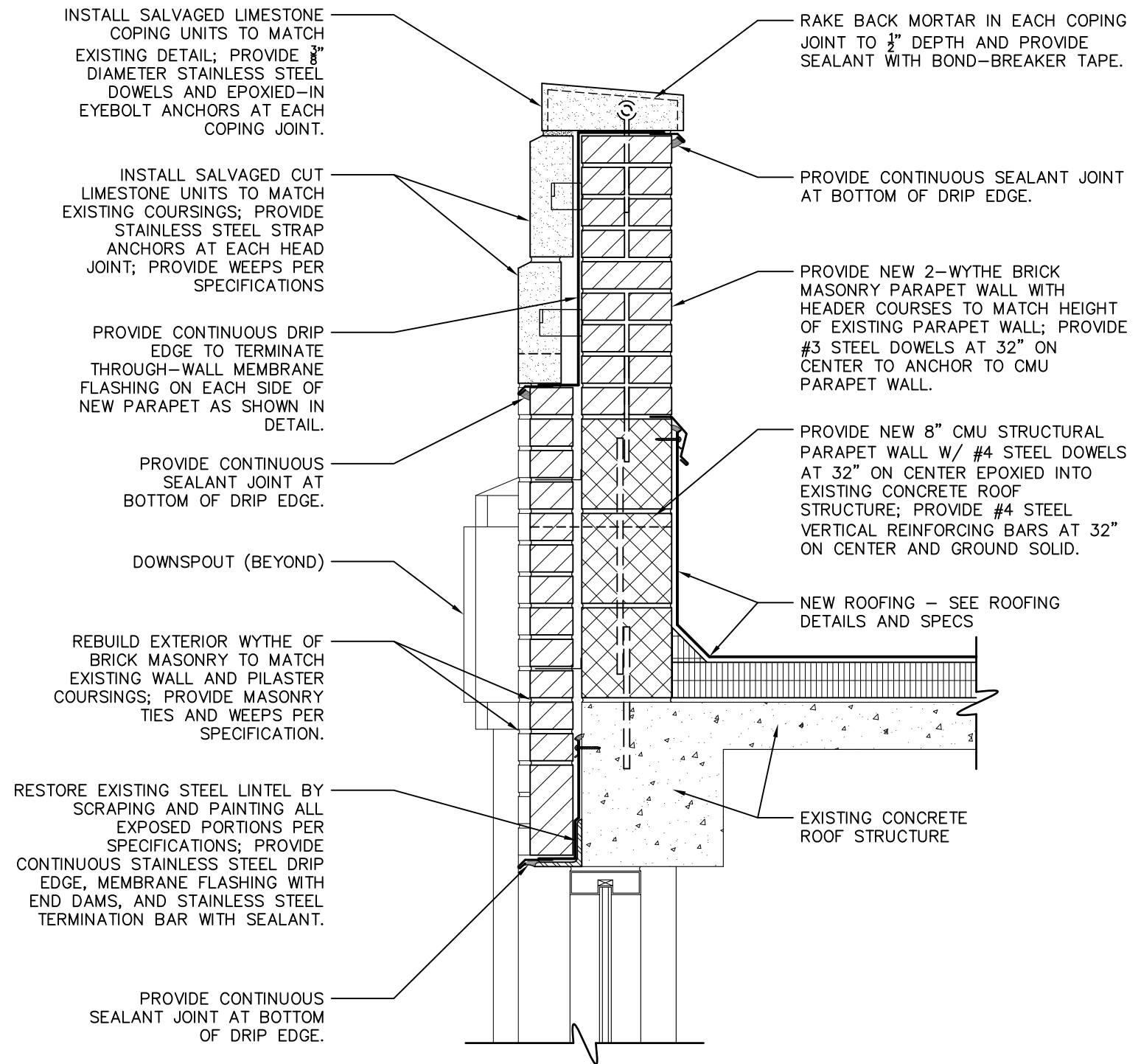
T18074

DRAWING NUMBER:

E-21



1 PARAPET WALL - DEMOLITION
RSD-1 N.T.S.



2 PARAPET WALL - CONSTRUCTION
RSD-1 N.T.S.

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PARAPET WALL DETAILS

WATER TREATMENT PLANT
CITY OF ANN ARBOR
ANN ARBOR, MI

REVISIONS / ADDENDA:

SCALE:

N.T.S.

APPROVED BY:

C.A.H.

DRAWN BY:

R.M.K.F.

DATE:

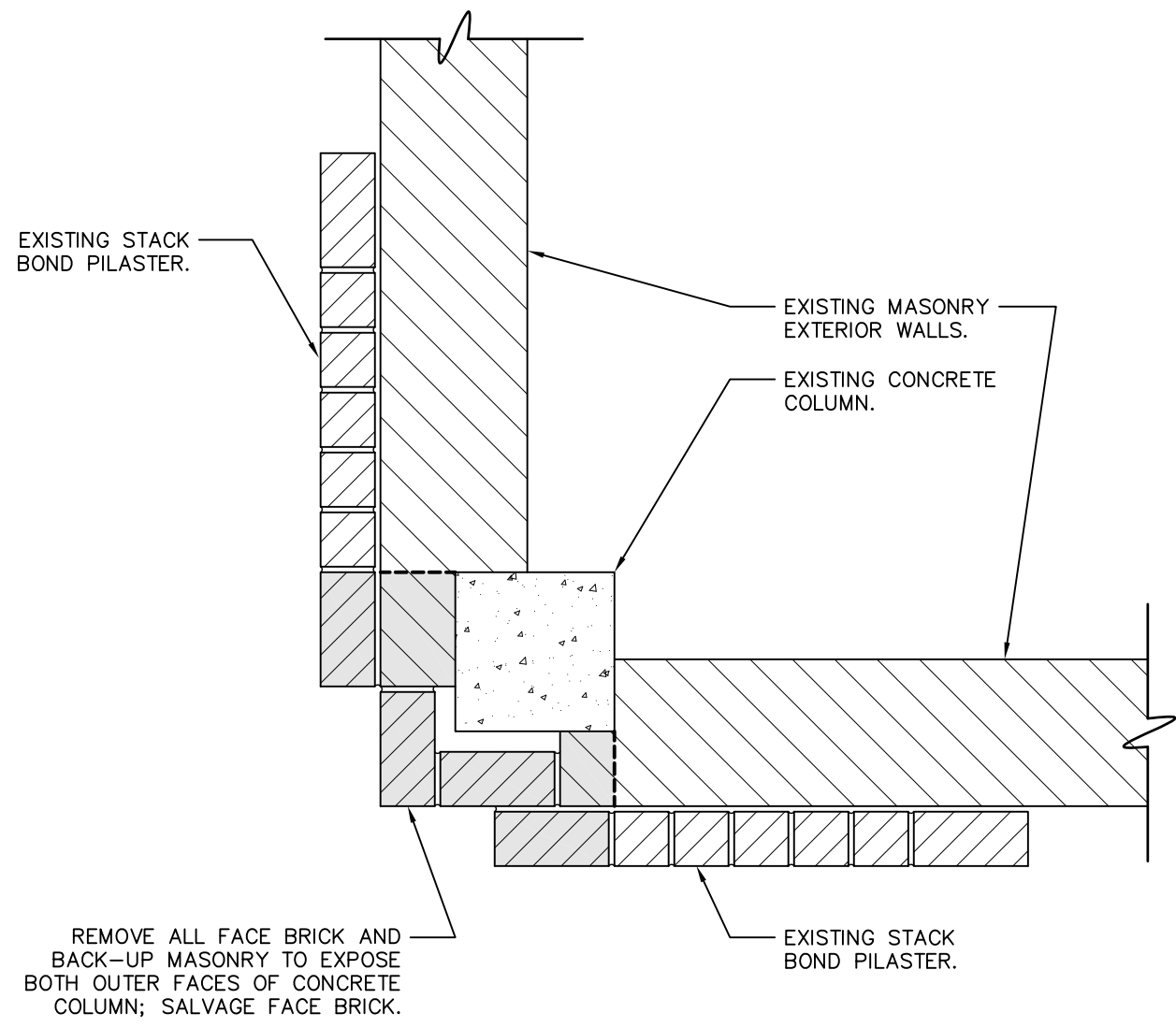
NOVEMBER 2018

PROJECT NUMBER:

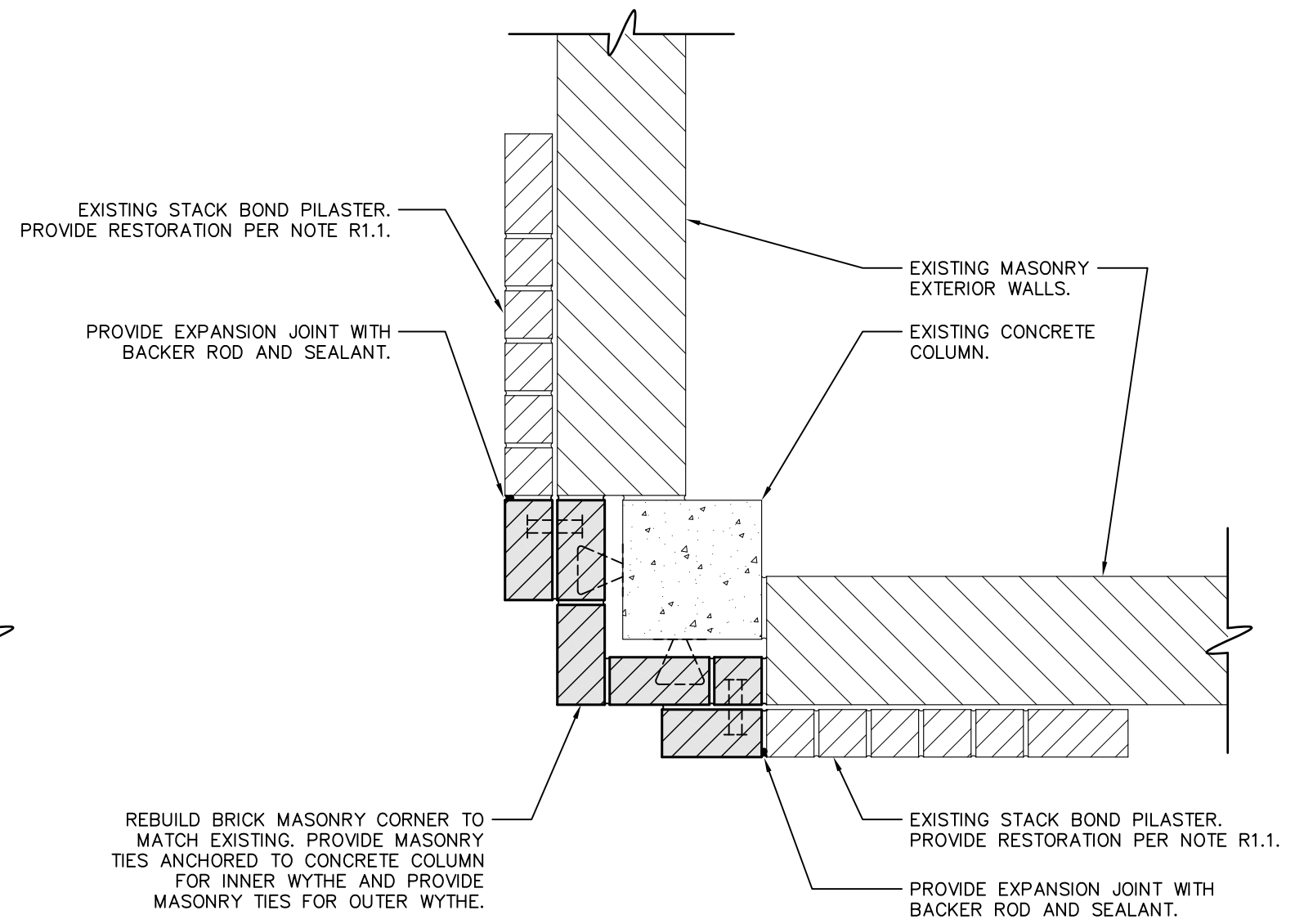
T18074

DRAWING NUMBER:

RSD-1



1 BUILDING CORNER – DEMOLITION
RSD-2 N.T.S.



2 BUILDING CORNER – CONSTRUCTION
RSD-2 N.T.S.

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BUILDING CORNER PLAN DETAILS

WATER TREATMENT PLANT
 CITY OF ANN ARBOR
 ANN ARBOR, MI

REVISIONS / ADDENDA:	
SCALE:	N.T.S.
APPROVED BY:	C.A.H.
DRAWN BY:	R.M.K.F.
DATE:	NOVEMBER 2018
PROJECT NUMBER:	T18074
DRAWING NUMBER:	RSD-2

REMOVE AND INSTALL SALVAGED LIMESTONE COPING UNITS TO MATCH EXISTING DETAIL; PROVIDE $\frac{3}{8}$ " DIAMETER STAINLESS STEEL DOWELS AND EPOXIED-IN EYEBOLT ANCHORS AT EACH COPING JOINT.

INSTALL SALVAGED CUT LIMESTONE UNITS TO MATCH EXISTING COURSINGS; PROVIDE STAINLESS STEEL STRAP ANCHORS AT EACH HEAD JOINT; PROVIDE WEEPS PER SPECIFICATIONS

PROVIDE CONTINUOUS DRIP EDGE TO TERMINATE THROUGH-WALL MEMBRANE FLASHING ON EACH SIDE OF NEW PARAPET AS SHOWN IN DETAIL.

PROVIDE CONTINUOUS SEALANT JOINT AT BOTTOM OF DRIP EDGE.

RAKE BACK MORTAR IN EACH COPING JOINT TO $\frac{1}{2}$ " DEPTH AND PROVIDE SEALANT WITH BOND-BREAKER TAPE.

PROVIDE CONTINUOUS SEALANT JOINT AT BOTTOM OF DRIP EDGE.

EXISTING BRICK MASONRY PARAPET WALL TO REMAIN

3
RSD-3 N.T.S.
**PARAPET WALL
DETAIL AT TOWER**

REMOVE AND INSTALL SALVAGED LIMESTONE COPING UNITS TO MATCH EXISTING DETAIL; PROVIDE $\frac{3}{8}$ " DIAMETER STAINLESS STEEL DOWELS AND EPOXIED-IN EYEBOLT ANCHORS AT EACH COPING JOINT.

INSTALL SALVAGED CUT LIMESTONE UNITS TO MATCH EXISTING COURSINGS; PROVIDE STAINLESS STEEL STRAP ANCHORS AT EACH HEAD JOINT; PROVIDE WEEPS PER SPECIFICATIONS

PROVIDE CONTINUOUS DRIP EDGE TO TERMINATE THROUGH-WALL MEMBRANE FLASHING ON EACH SIDE OF NEW PARAPET AS SHOWN IN DETAIL.

PROVIDE CONTINUOUS SEALANT JOINT AT BOTTOM OF DRIP EDGE.

RAKE BACK MORTAR IN EACH COPING JOINT TO $\frac{1}{2}$ " DEPTH AND PROVIDE SEALANT WITH BOND-BREAKER TAPE.

PROVIDE CONTINUOUS SEALANT JOINT AT BOTTOM OF DRIP EDGE.

EXISTING BRICK MASONRY PARAPET WALL TO REMAIN

2
RSD-3 N.T.S.
**PARAPET WALL DETAIL AT
FILTER GALLERY & CARBON HOUSE**

REBUILD EXTERIOR WYTHE OF BRICK MASONRY TO MATCH EXISTING WALL AND PILASTER COURSINGS; PROVIDE MASONRY TIES AND WEEPS PER SPECIFICATION.

REMOVE 4 BRICK COURSES (MINIMUM) ALONG THE LENGTH OF EXISTING STEEL LINTEL / SHELF ANGLE

RESTORE EXISTING STEEL LINTEL BY SCRAPING AND PAINTING ALL EXPOSED PORTIONS PER SPECIFICATIONS; PROVIDE CONTINUOUS STAINLESS STEEL DRIP EDGE, MEMBRANE FLASHING WITH END DAMS, AND STAINLESS STEEL TERMINATION BAR WITH SEALANT.

PROVIDE CONTINUOUS SEALANT JOINT AT BOTTOM OF DRIP EDGE.

EXISTING WINDOW SYSTEM

1
RSD-3 N.T.S.
TYPICAL LINTEL DETAIL

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SECTION DETAILS

WATER TREATMENT PLANT
CITY OF ANN ARBOR
ANN ARBOR, MI

REVISIONS / ADDENDA:

SCALE: N.T.S.

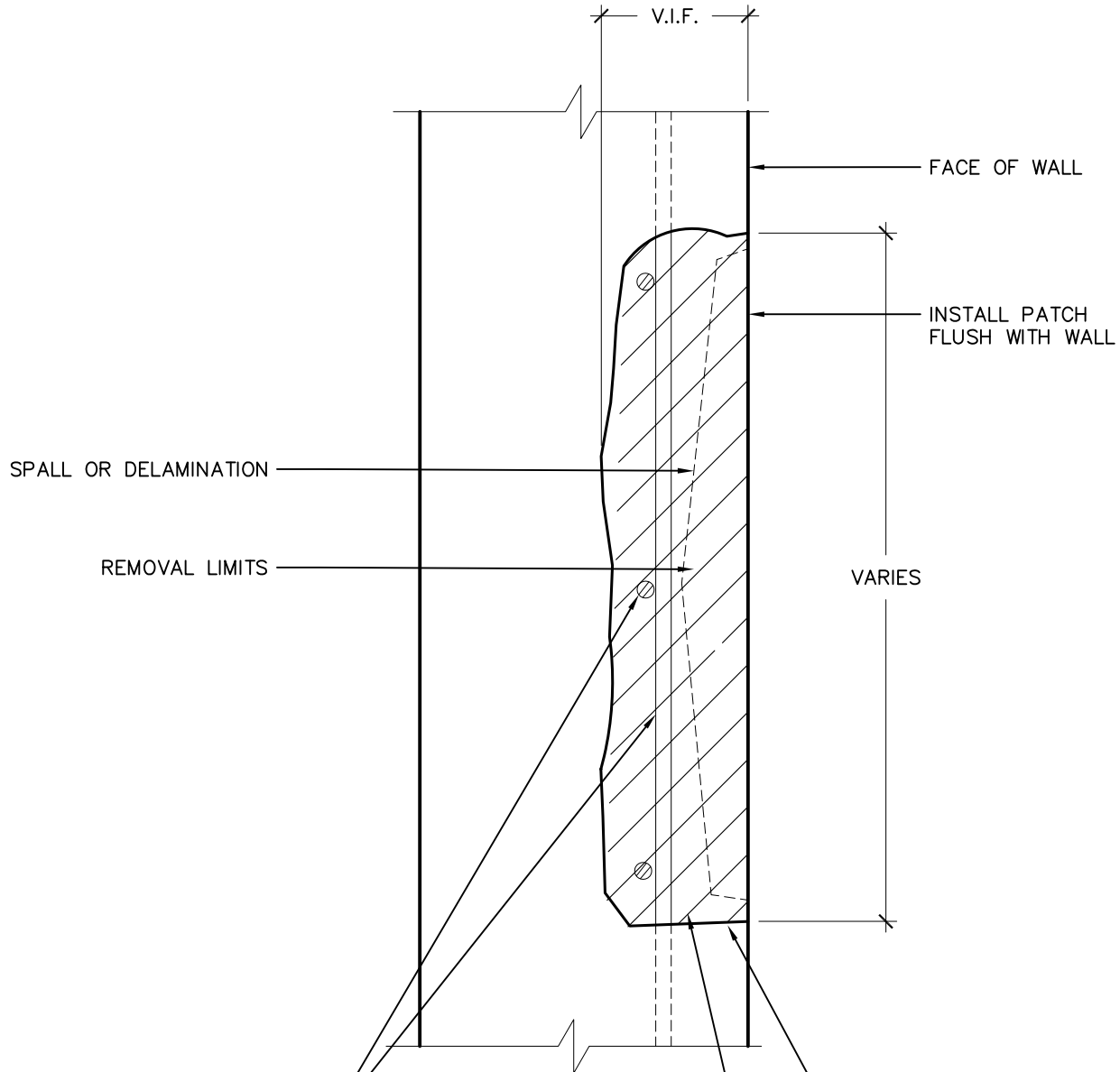
APPROVED BY: C.A.H.

DRAWN BY: R.M.K.F.

DATE: NOVEMBER 2018

PROJECT NUMBER: T18074

DRAWING NUMBER: RSD-3



REINFORCEMENT (TYP.),
 LOCATIONS APPROXIMATE.
 CLEAN AND EPOXY COAT ALL
 EXPOSED REINF. PROVIDE
 3/4" CLEARANCE AROUND
 ALL EXPOSED REINF. WHERE
 REQ'D AS SPECIFIED IN
 SECTION "CONCRETE
 PATCHING AND RESTORATION".

GRIND OR SAWCUT PATCH
 PERIMETER 1/2" (TYP.)

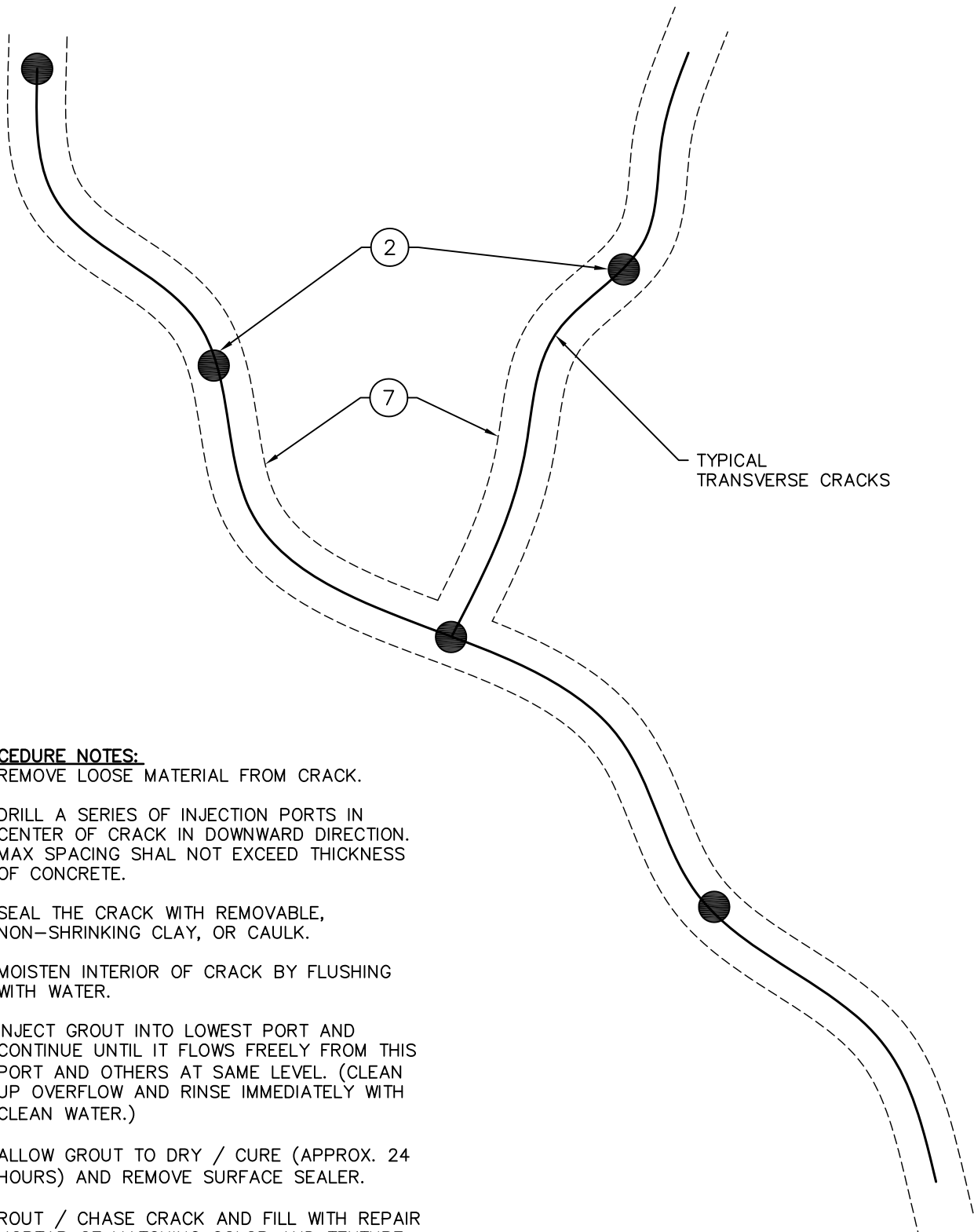
REMOVE CONCRETE WITHIN
 SECTION SHOWN
 CROSS-HATCHED

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CONCRETE REPAIR – VERTICAL

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

SCALE: N.T.S.
 APPROVED BY: K.E.T.
 DRAWN BY: R.M.K.F.
 DATE: NOVEMBER, 2018
 PROJECT #: T18074.RFG/RST3
 RSD-4



TYPICAL
TRANSVERSE CRACKS

PROCEDURE NOTES:

1. REMOVE LOOSE MATERIAL FROM CRACK.
2. DRILL A SERIES OF INJECTION PORTS IN CENTER OF CRACK IN DOWNWARD DIRECTION. MAX SPACING SHAL NOT EXCEED THICKNESS OF CONCRETE.
3. SEAL THE CRACK WITH REMOVABLE, NON-SHRINKING CLAY, OR CAULK.
4. MOISTEN INTERIOR OF CRACK BY FLUSHING WITH WATER.
5. INJECT GROUT INTO LOWEST PORT AND CONTINUE UNTIL IT FLOWS FREELY FROM THIS PORT AND OTHERS AT SAME LEVEL. (CLEAN UP OVERFLOW AND RINSE IMMEDIATELY WITH CLEAN WATER.)
6. ALLOW GROUT TO DRY / CURE (APPROX. 24 HOURS) AND REMOVE SURFACE SEALER.
7. ROUT / CHASE CRACK AND FILL WITH REPAIR MORTAR OF MATCHING COLOR AND TEXTURE: FINISH FLUSH WITH WALL SURFACE.

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CRACK INJECTION REPAIR
 TRANSVERSE / VERTICAL CRACKS

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

SCALE: N.T.S.

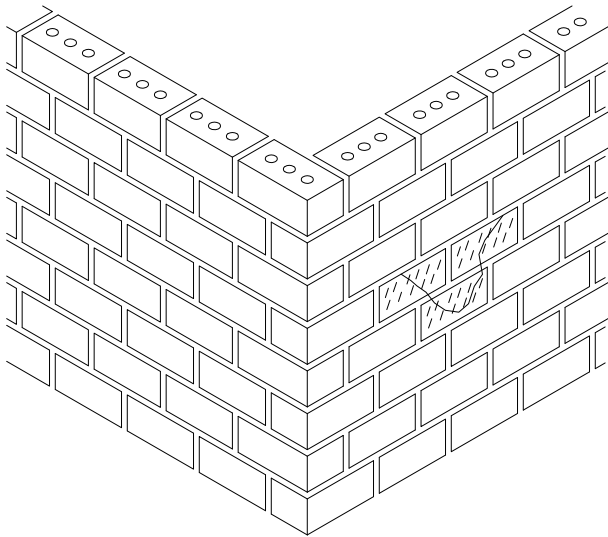
APPROVED BY: K.E.T.

DRAWN BY: R.M.K.F.

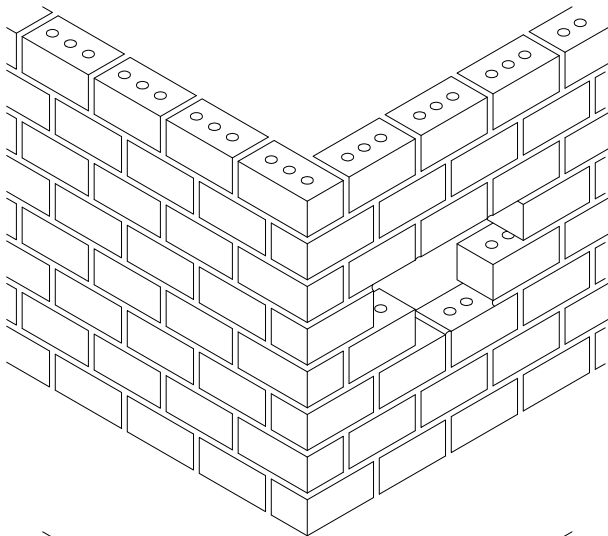
DATE: NOVEMBER, 2018

PROJECT #: T18074.RFG/RST3

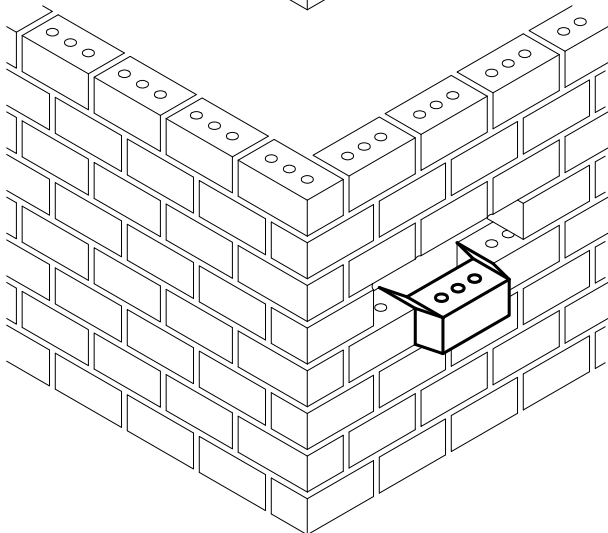
RDS-5



A) EXISTING DAMAGED BRICK UNITS

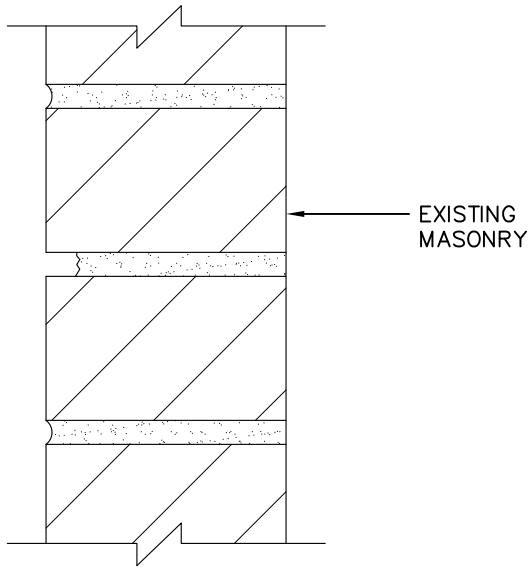


B) REMOVE DAMAGED EXISTING BRICK UNITS AND MORTAR WITH MOTOR DRIVEN SAWS AND HAND TOOLS. PROVIDE SHORING AS REQUIRED TO PREVENT MOVEMENT OF THE REMAINING MASONRY. DO NOT DAMAGE ADJACENT BRICK UNITS THAT ARE TO REMAIN. REPLACE ALL UNITS / MASONRY DAMAGED BY THE REMOVAL PROCESS AT NO ADDITIONAL COST TO THE OWNER.

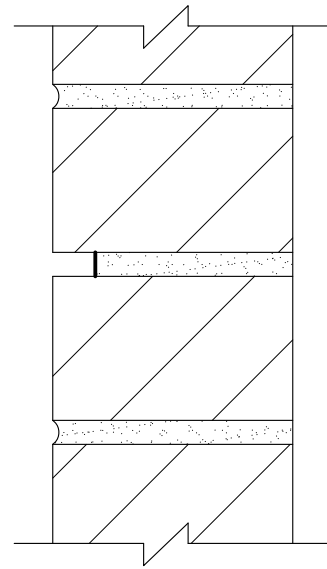


C) BUTTER REPLACEMENT UNITS AND SET INTO PLACE. FILL ALL HEAD AND BED JOINTS WITH MORTAR. TOOL MORTAR TO MATCH EXISTING.

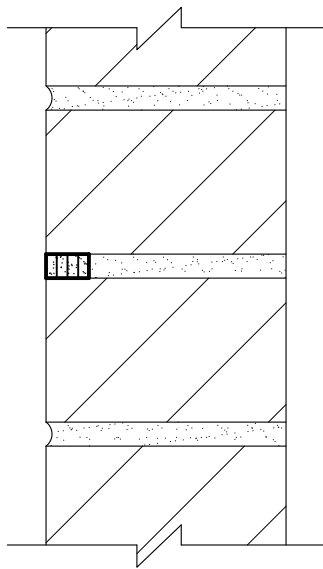
<p>StructureTec. Total Building Envelope Management SolutionSM 4777 Campus Drive • Kalamazoo, MI 49008 1121 Lake Cook Road, Ste C • Deerfield, IL 60015 473 Airport Road, Ste 1 • Butler, PA 16002 34119 W. Twelve Mile Road, Ste 270 • Farmington Hills, MI 48331</p>	ISOLATED BRICK REPLACEMENT		SCALE: N.T.S.
			APPROVED BY: K.E.T.
			DRAWN BY: R.M.K.F.
	2018 ARCHITECTURAL / STRUCTURAL PROJECT CITY OF ANN ARBOR – WATER TREATMENT		DATE: NOVEMBER, 2018
			PROJECT #: T18074.RFG/RST3
		RSD-6	



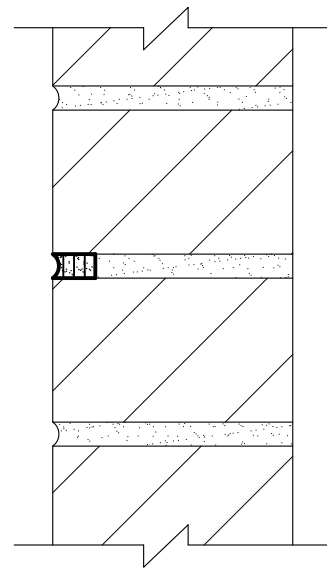
A) EXISTING DETERIORATED MORTAR JOINT



B) CUT BACK EXISTING MORTAR TO A UNIFORM DEPTH (MIN. 1")



C) PLACE TUCK-POINTING MORTAR IN 1/4" LAYERS, CONSOLIDATING EACH LAYER



D) TOOL JOINT TO MATCH ORIGINAL PROFILE

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TYPICAL TUCKPOINTING

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

SCALE: N.T.S.

APPROVED BY: K.E.T.

DRAWN BY: R.M.K.F.

DATE: NOVEMBER, 2018

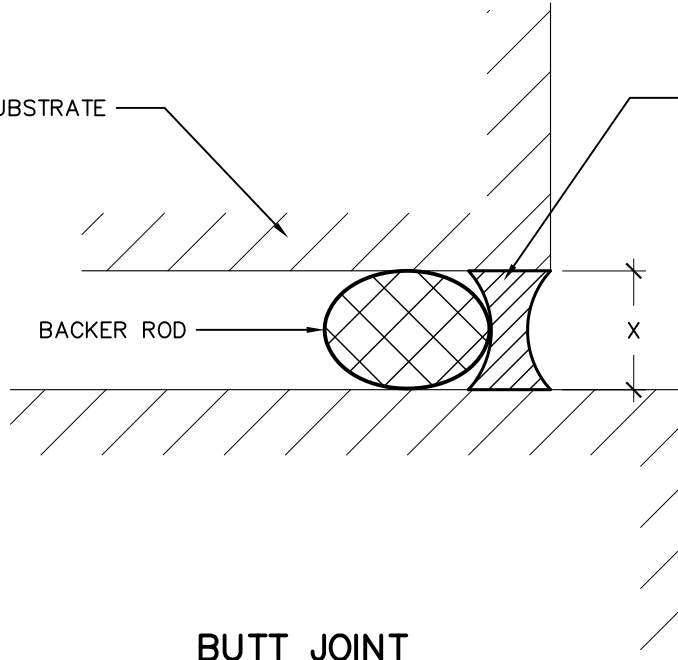
PROJECT #: T18074.RFG/RST3

RSD-7

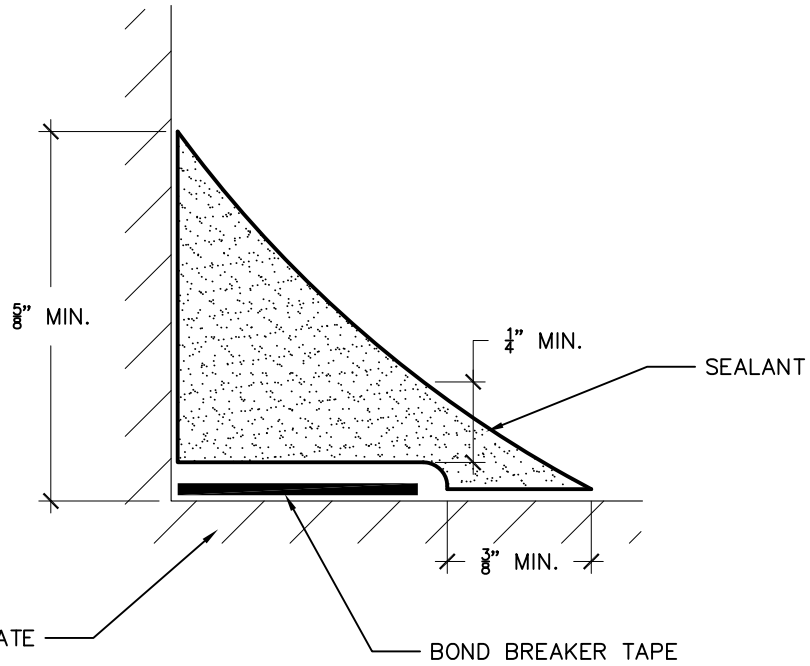
EXISTING SUBSTRATE

SEALANT

BACKER ROD



BUTT JOINT



FILLET JOINT

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TYPICAL SEALANT JOINT

2018 ARCHITECTURAL / STRUCTURAL PROJECT
CITY OF ANN ARBOR – WATER TREATMENT

SCALE: N.T.S.

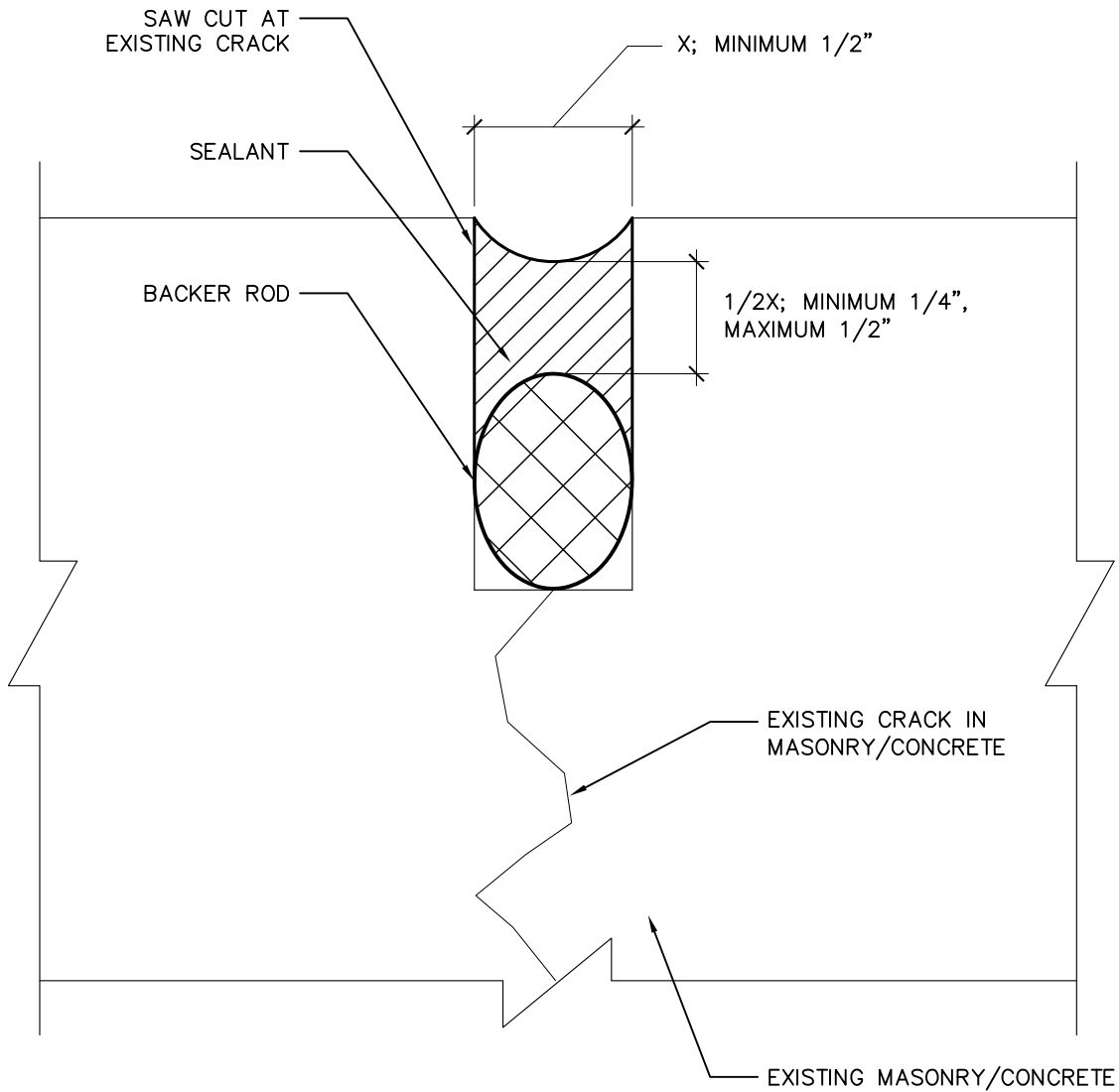
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DRAWN BY: R.M.K.F.

DATE: NOVEMBER, 2018

PROJECT #: T18074.RFG/RST3

RSD-8

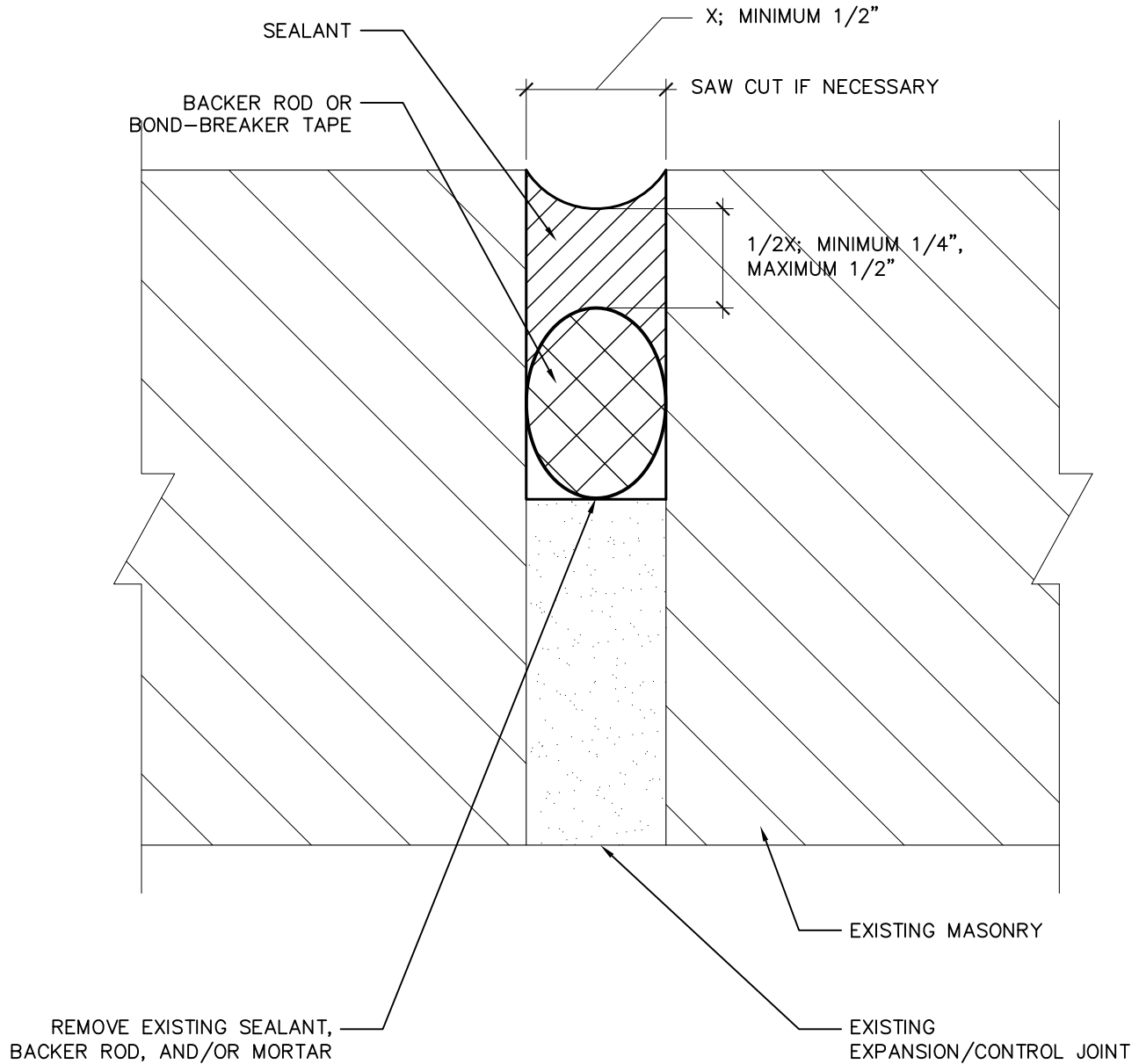


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CRACK SEALING

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

SCALE: N.T.S.
APPROVED BY: K.E.T.
DRAWN BY: R.M.K.F.
DATE: NOVEMBER, 2018
PROJECT #: T18074.RFG/RST3
RSD-9



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WEATHERSEAL (JOINT)

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

SCALE: N.T.S.

APPROVED BY: K.E.T.

DRAWN BY: R.M.K.F.

DATE: NOVEMBER, 2018

PROJECT #: T18074.RFG/RST3

RSD-10

EXISTING WINDOW FRAMING
(SHOWN SCHEMATICALLY)

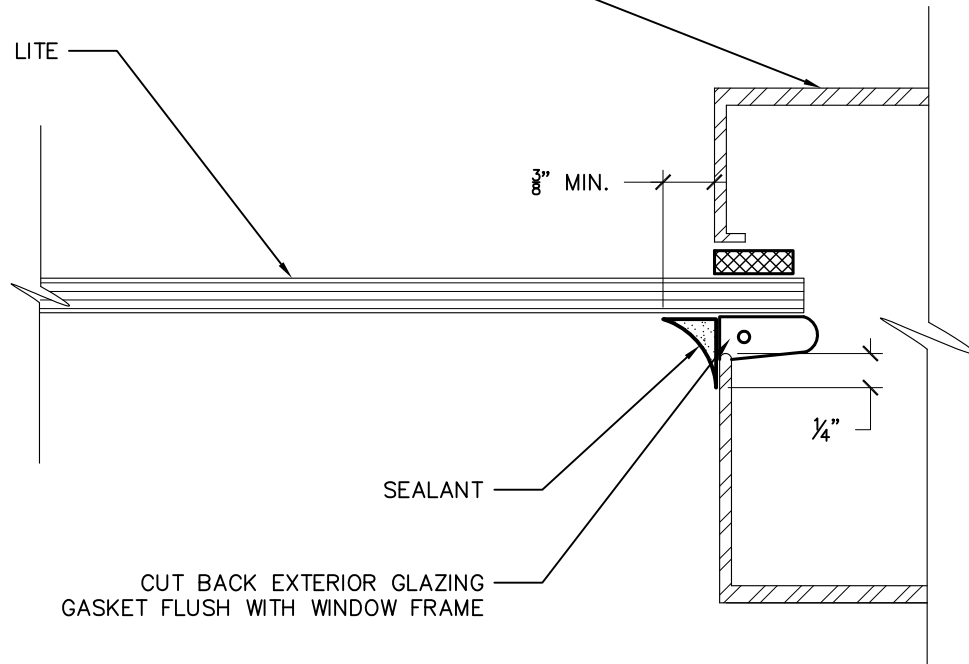
EXISTING GLASS LITE

3/8" MIN.

SEALANT

CUT BACK EXTERIOR GLAZING
GASKET FLUSH WITH WINDOW FRAME

1/4"



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TYPICAL WET SEAL

2018 ARCHITECTURAL / STRUCTURAL PROJECT
CITY OF ANN ARBOR – WATER TREATMENT

SCALE: N.T.S.

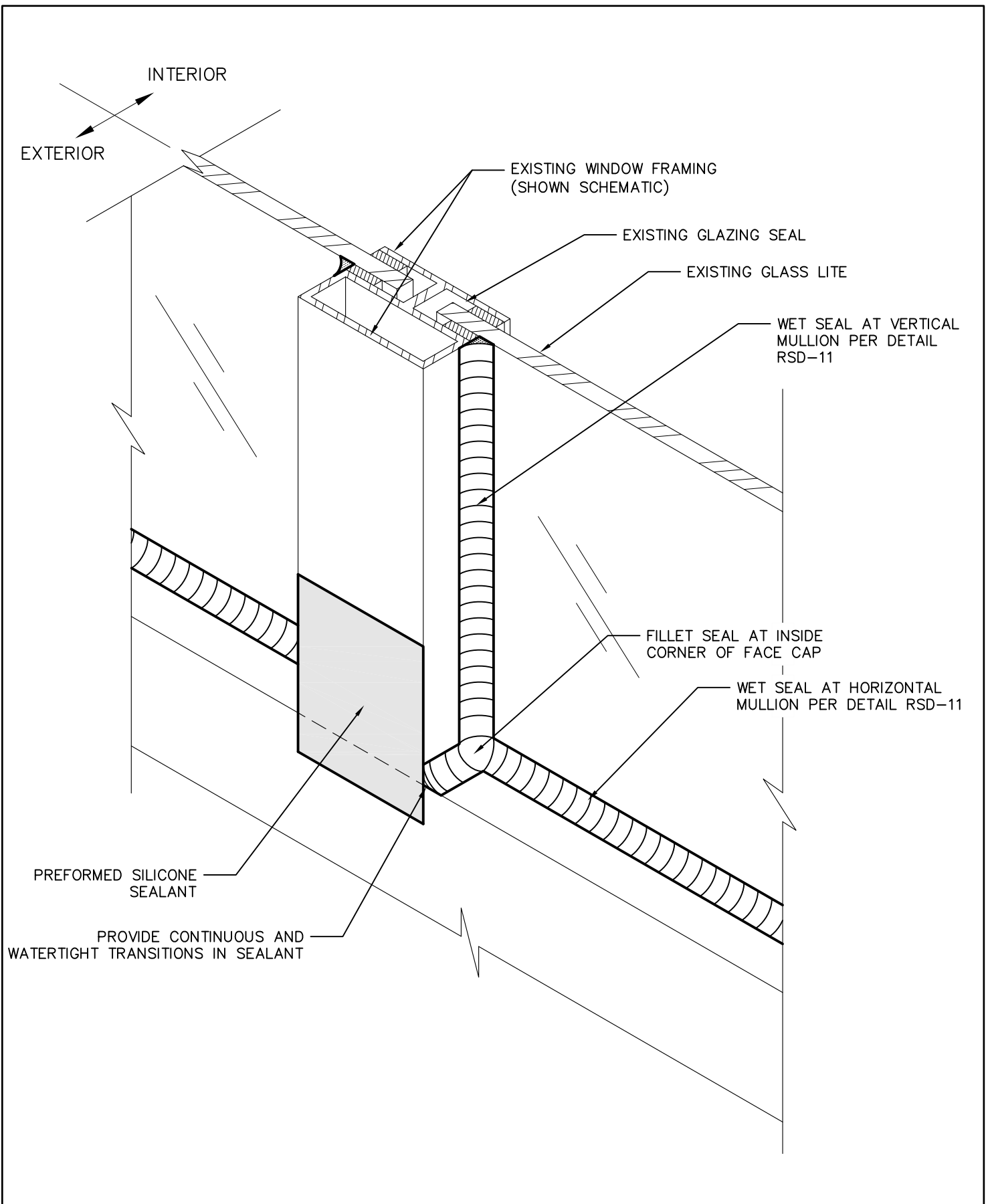
APPROVED BY: K.E.T.

DRAWN BY: R.M.K.F.

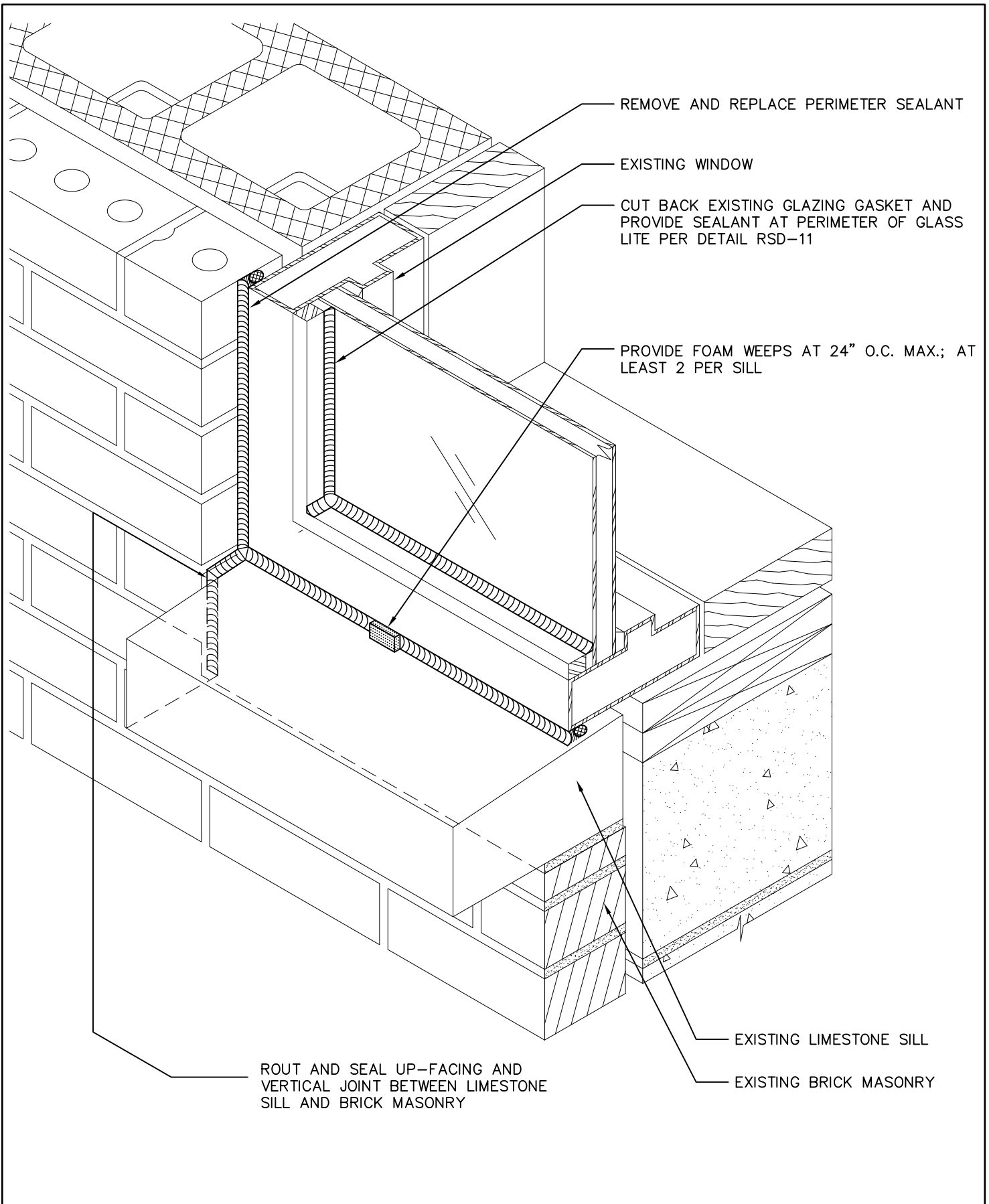
DATE: NOVEMBER, 2018

PROJECT #: T18074.RFG/RST3

RSD-11



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		APPROVED BY: K.E.T.
		DRAWN BY: R.M.K.F.
	2018 ARCHITECTURAL / STRUCTURAL PROJECT CITY OF ANN ARBOR – WATER TREATMENT	DATE: NOVEMBER, 2018
		PROJECT #: T18074.RFG/RST3
		RSD-12

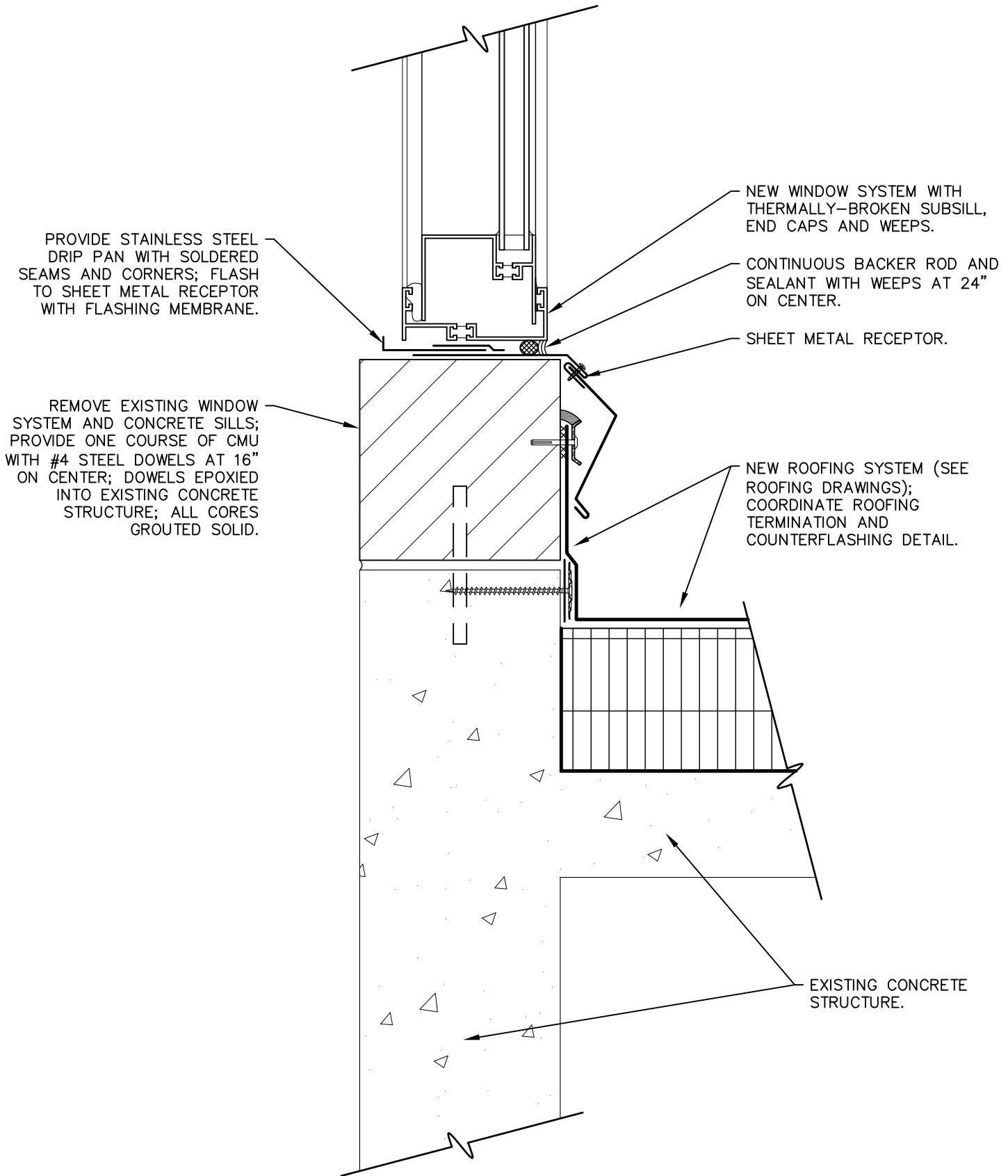


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SEALANT AT WINDOW SILL

2018 ARCHITECTURAL / STRUCTURAL PROJECT
 CITY OF ANN ARBOR – WATER TREATMENT

SCALE: N.T.S.
 APPROVED BY: K.E.T.
 DRAWN BY: R.M.K.F.
 DATE: NOVEMBER, 2018
 PROJECT #: T18074.RFG/RST3
 RSD-13



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CLERESTORY WINDOW REPLACEMENT DETAIL

2018 ARCHITECTURAL / STRUCTURAL PROJECT
CITY OF ANN ARBOR – WATER TREATMENT

SCALE: N.T.S.

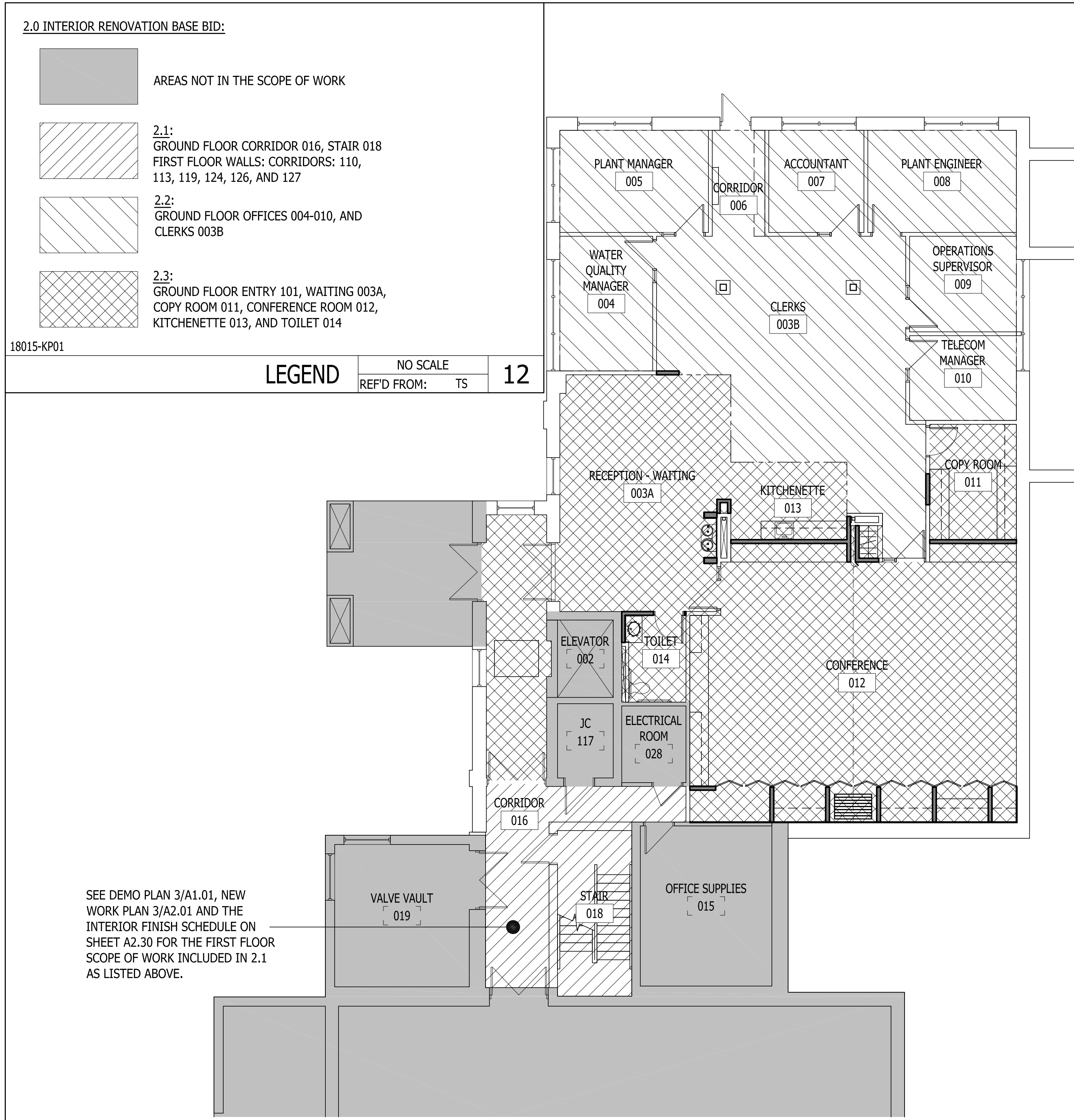
APPROVED BY: K.E.T.

DRAWN BY: R.M.K.F.

DATE: NOVEMBER, 2018

PROJECT #: T18074.RFG/RST3

RSD-14



GROUND FLOOR KEYPLAN SCALE: 1/8"=1'-0" 3
REF'D FROM: TS

AFF	ABOVE FINISH FLOOR	MAX	MAXIMUM
ARCH	ARCHITECT(URAL)	MECH	MECHANICAL
BLDG	BUILDING	MFR	MANUFACTURER
CC	CENTER TO CENTER	MIN	MINIMUM
CJ	CONTROL JOINT	MO	MASONRY OPENING
CLG	CEILING	NA	NOT APPLICABLE
CONC	CONCRETE	NIC	NOT IN CONTRACT
CONT	CONTINUOUS	NOM	NOMINAL
DIA	DIAMETER	NTS	NOT TO SCALE
DS	DOWNSPOUT	OC	ON CENTER
DWG	DRAWING	OD	OUTSIDE DIAMETER
(E)	EXISTING	OPG	OPENING
EA	EACH	OPP	OPPOSITE
EJ	EXPANSION JOINT	PR	PAIR
ELEC	ELECTRICAL	PRVD	PROVIDED
EL	ELEVATION	R	RISER
ELEV	ELEVATOR	RE	REFER (TO)
EQUIP	EQUIPMENT	REQD	REQUIRED
EWC	ELECTRIC WATER COOLER	RD	ROOF DRAIN
EXT	EXTERIOR	RO	ROUGH OPENING
FD	FLOOR DRAIN	SF	SQUARE FEET
FOF	FACE OF FINISH	SIM	SIMILAR
FOS	FACE OF STUD	SPEC	SPECIFICATIONS
FR	FIRE-RETARDANT	SS	STAINLESS STEEL
GA	GAUGE OR GAGE	STD	STANDARD
GC	GENERAL CONTRACTOR	STR	STRUCTURAL
GI	GALVANIZED IRON	T	TREAD
GYP BD	GYP SUM BOARD	TS	THIS SHEET
HM	HOLLOW METAL	TOC	TOP OF CONCRETE
HORIZ	HORIZONTAL	TOS	TOP OF STEEL
HT	HEIGHT	TOM	TOP OF MASONRY
INT	INTERIOR	TYP	TYPICAL
ID	INSIDE DIAMETER	UNO	UNLESS NOTED OTHERWISE
JT	JOINT	W/	WITH
LAV	LAVATORY	WC	WATER CLOSET
		WD	WOOD
		WR	WATER RESISTANT
		WWF	WELDED WIRE FABRIC

NOTE: SEE DOOR, WINDOW AND INTERIOR FINISH SCHEDULES FOR ADDITIONAL ABBREVIATIONS

18015-A2.00

ABBREVIATIONS LIST NO SCALE 10
REF'D FROM: NA

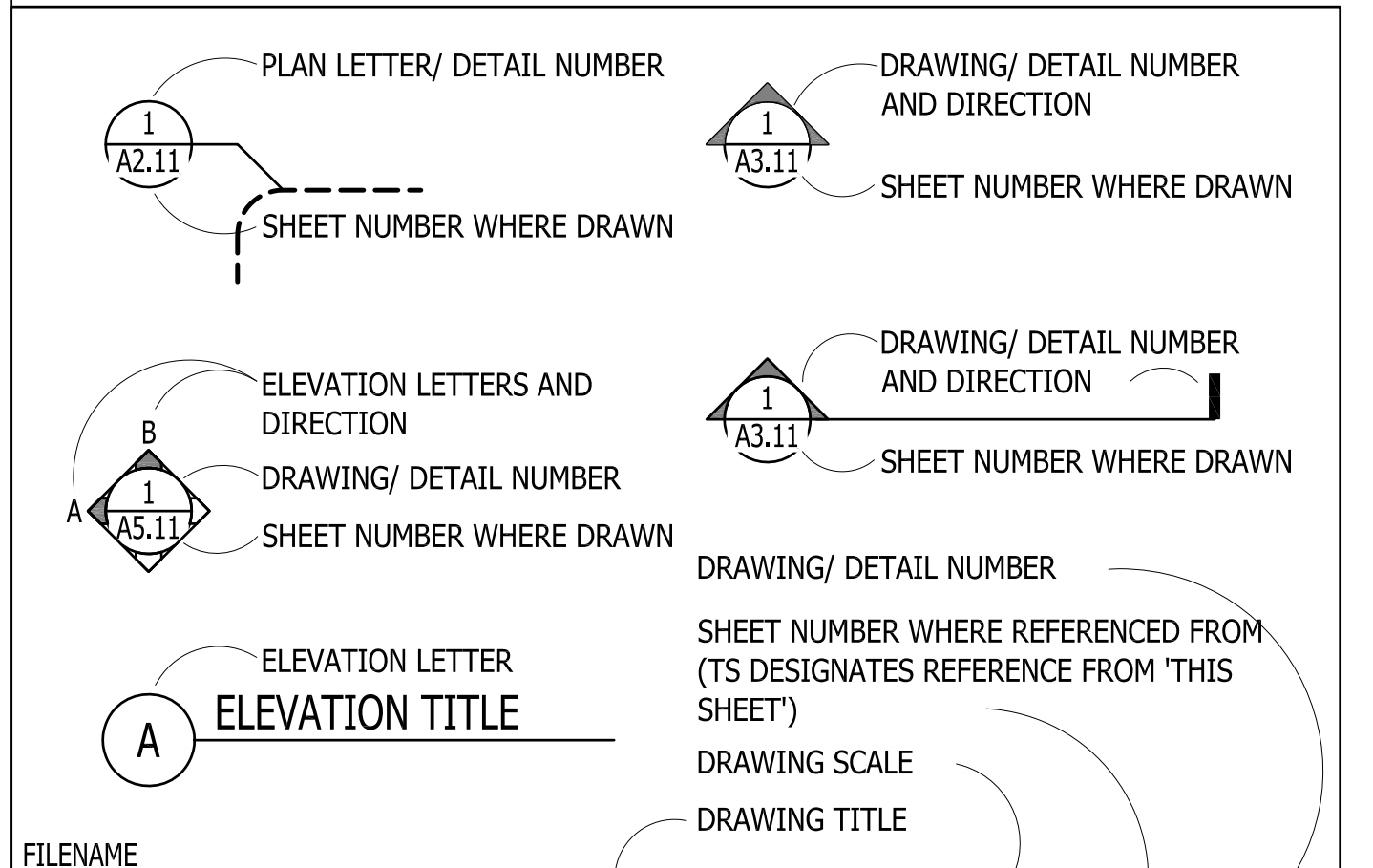
PROJECT GENERAL NOTES:

- ALL DIMENSIONS ARE FROM FINISH FACE OF MATERIAL, UNO.
- ALL ANGLES ARE 90 DEGREES, UNO.
- SITE CONDITIONS:** THE CONTRACTOR BY COMMENCING THE WORK ACCEPTS THE CONDITIONS OF THE SITE AND THE COMPLETENESS OF THE CONTRACT DOCUMENTS. ANY DISCREPANCIES BETWEEN DRAWINGS AND ACTUAL CONDITIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO BEGINNING THE WORK. NO EXTRAS SHALL BE ALLOWED FOR DISCREPANCIES AFTER THE WORK HAS BEGUN.
- DRAWINGS:** ALL CONTRACTORS SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS. CONTRACTORS ARE RESPONSIBLE FOR COMPLETE REVIEW. ITEMS AFFECTING ALL TRADES ARE PLACED THROUGHOUT THE SET OF DRAWINGS. NO "EXTRAS" FOR MISSED ITEMS IN OTHER SECTIONS WILL BE PERMITTED. THE CONTRACTORS SHALL PROMPTLY NOTIFY THE ARCHITECT OF ANY AMBIGUITY, INCONSISTENCY OR ERROR WHICH THEY DISCOVER UPON EXAMINATION OF THE CONTRACT DOCUMENTS, THE SITE, OR LOCAL CONDITIONS. GENERAL CONTRACTORS SHALL DISTRIBUTE COMPLETE SETS OF DRAWINGS TO ALL SUBCONTRACTORS. DO NOT SEPARATE DRAWINGS BY DISCIPLINE. DO NOT SCALE DRAWINGS.
- COMPLETENESS:** ANY MATERIAL NOT SHOWN ON THE DRAWINGS, NOR SPECIFIED, BUT WHICH IS OBVIOUSLY NECESSARY TO COMPLETE THE WORK OF A SIMILAR NATURE SHALL BE FURNISHED WITHOUT ADDITIONAL COST TO THE OWNER OR ARCHITECT. IN THE CASE OF CONFLICTING QUANTITIES/VALUES, THE GREATER AMOUNT OR THE ONE OF GREATER VALUE SHALL PREVAIL AND BE PROVIDED BY THE CONTRACTOR AS A PART OF HIS BASE CONTRACT AND SHALL NOT BECOME A BASIS FOR CHANGE ORDERS OR CLAIMS FOR ADDITIONAL COMPENSATION.
- PROTECTION:** GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR TAKING ALL STEPS NECESSARY TO PROTECT THE PUBLIC AND THE OWNER'S PERSONNEL FROM INJURY, AND ADJACENT PROPERTY FROM DAMAGES DURING CONSTRUCTION AS REQUIRED BY LOCAL CODES. THE GENERAL CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PROJECT SECURITY FROM THE START OF THE WORK UNTIL THE OWNER ACCEPTS THE PROJECT AS SUBSTANTIALLY COMPLETE AND/OR OCCUPIABLE.

IN THE CASE OF CONFLICTING OR INCONSISTENT INFORMATION, THE MOST STRINGENT REQUIREMENTS SHALL PREVAIL AND BE PROVIDED BY THE CONTRACTOR AS A PART OF HIS BASE CONTRACT AND SHALL NOT BECOME A BASIS FOR CHANGE ORDERS OR CLAIMS FOR ADDITIONAL COMPENSATION.

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PROJECT NOTES NO SCALE 2
REF'D FROM: NA



SYMBOLS LEGEND NO SCALE 9
REF'D FROM: NA

DRAWING INDEX KEY:

ISSUED FOR: 11/13/18

ISSUED FOR REFERENCE ONLY

ISSUED FOR REVIEW

ISSUED FOR BID/PERMIT

SHT. #	SHEET NAME	Issued For
ARCHITECTURAL		
A1.00	Drawing Index and General Project notes	●
A1.01	Ground Floor and First Floor Demolition Plans	●
A2.00	Door Schedule, Enlarged Plans, and Wall Types Legend	●
A2.01	Ground Floor and First Floor New Work Plans	●
A2.30	Interior Finish Plan, Schedule and Key	●
A5.01	Conference Room Interior Elevations & Typ Mounting Heights	●
A5.02	Interior Elevations	●
A6.01	Ground Floor Reflected Ceiling Plans	●
A8.01	Casework, Door and Ceiling Details	●
MECHANICAL		
M1.00	Mechanical & Plumbing Legend	●
P1.01	Plumbing Demolition and New Work	●
P2.01	Plumbing Details & Schedules	●
M1.01	Mechanical Demolition & New Work	●
M2.01	Mechanical Details & Schedules	●
M2.02	Mechanical Details & Schedules	●
ELECTRICAL		
E1.00	Electrical Symbol List, Lighting Legend, Schedule & Notes	●
ED.01	Ground Floor Demolition Plan - Electrical	●
E1.01	Ground Floor New Work Plan - Electrical	●

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DRAWING INDEX NO SCALE 1
REF'D FROM: NA

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Sheet Index, And General Project Notes

PROJECT
CITY OF ANN ARBOR
INTERIOR RENOVATION
919 Sunset Road
Ann Arbor MI 48103

REVISIONS / ADDENDA:

SCALE:

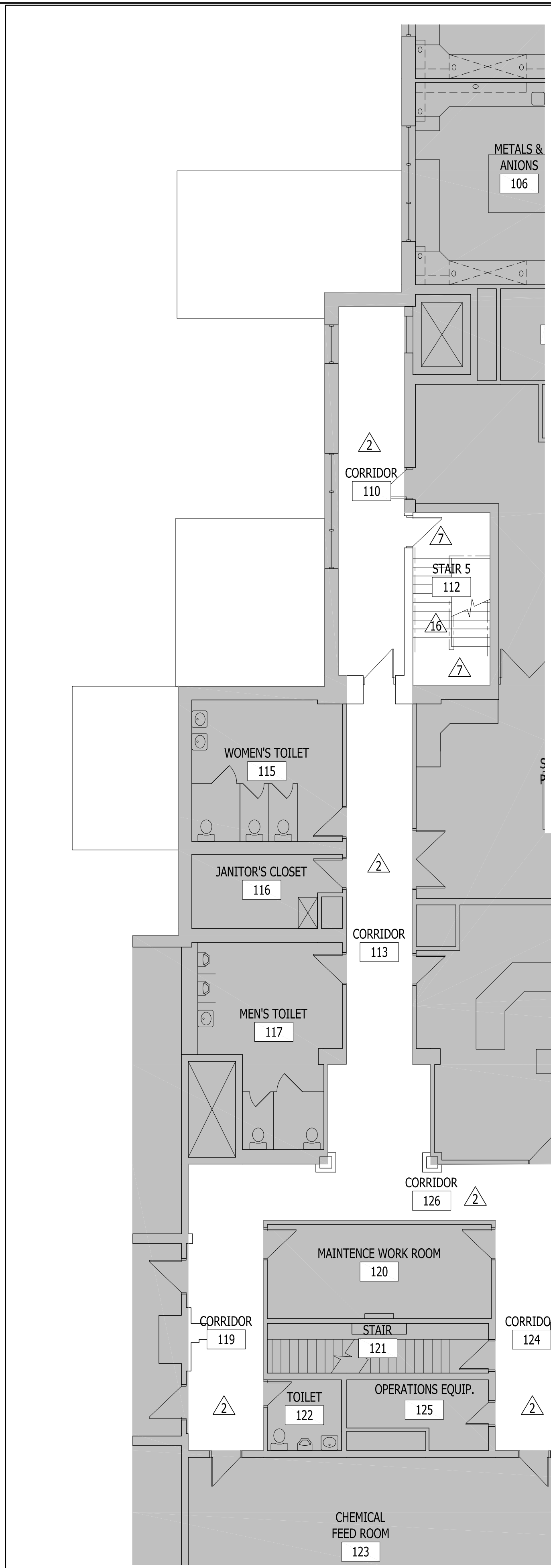
APPROVED BY:

DRAWN BY:

DATE: 11/09/2018
Bid/Permit

PROJECT NUMBER:
STRUC TEC: T18074 A3C: 18015

DRAWING NUMBER:
A1.00

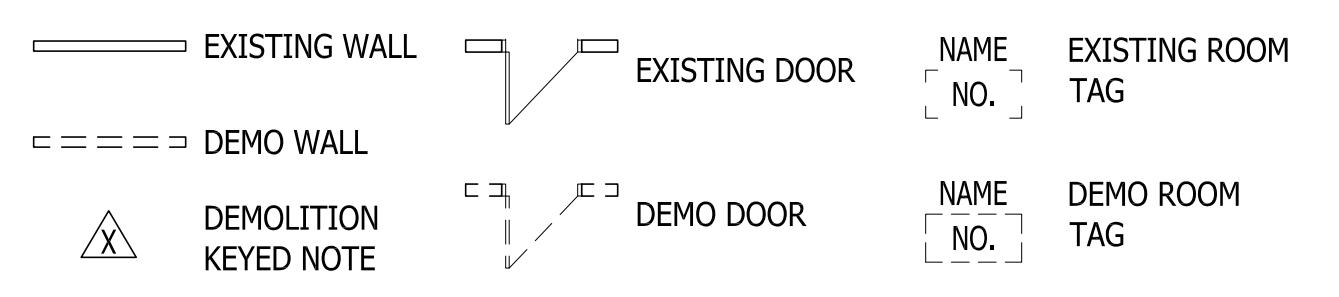


- DEMOLITION PLAN KEYED NOTES:**
- 1 REMOVE PORTION OF EXISTING GYPSUM BOARD WALL TO THE LIMITS SHOWN IN PLAN.
 - 2 REMOVE EXISTING WALL COVERING, COMPLETE, PREPARE WALL FOR PAINT.
 - 3 REMOVE PLUMBING FIXTURE, COMPLETE. COORDINATE WITH MECHANICAL.
 - 4 REMOVE CASEWORK, COMPLETE.
 - 5 REMOVE CARPET AND RESILIENT BASE, COMPLETE.
 - 6 REMOVE PORTION OF EXISTING QUARRY TILE TO THE LIMITS SHOWN ON PLAN. SALVAGE FULL TILES FOR INFILL, COORDINATE WITH NEW WORK PLAN.
 - 7 REMOVE TILE FLOORING AND RESILIENT BASE, COMPLETE.
 - 8 TEMPORARILY REMOVE AND STORE MOVEABLE PARTITION FOR REINSTALLATION IN NEW CLOSET ON OPPOSITE SIDE OF CONFERENCE ROOM. SEE NEW WORK PLAN FOR ADDITIONAL INFORMATION.
 - 9 PROTECT EXISTING COMMUNICATIONS DROP DOWN EQUIPMENT TO REMAIN ABOVE CEILING DURING CONSTRUCTION.
 - 10 REMOVE EXISTING LIGHTING FIXTURES. PREP FOR NEW LED LIGHT FIXTURES. SEE ELECTRICAL FOR ADDITIONAL INFORMATION.
 - 11 REMOVE DOOR AND FRAME COMPLETE.
 - 12 EXISTING QUARRY TILE TO REMAIN, PROTECT DURING CONSTRUCTION.
 - 13 REMOVE EXISTING RECESSED WALK-OFF MAT AND METAL EDGE FRAME.
 - 14 REMOVE EXISTING GYPSUM BOARD ON EXISTING WOOD OR METAL WALL STUD FRAMING TO REMAIN.
 - 15 CORE THROUGH EXISTING EXTERIOR WALL AS REQUIRED FOR NEW EXHAUST DUCT PENETRATIONS, COORDINATE WITH MEP.
 - 16 REMOVE STAIR TREAD FLOORING, AND NOSING FINISHES, COMPLETE.
 - 17 REMOVE EXISTING ACOUSTIC CEILING PANELS AND GRID COMPLETE.
 - 18 REMOVE EXISTING GYPSUM BOARD AND STUD FRAMED SOFFIT.

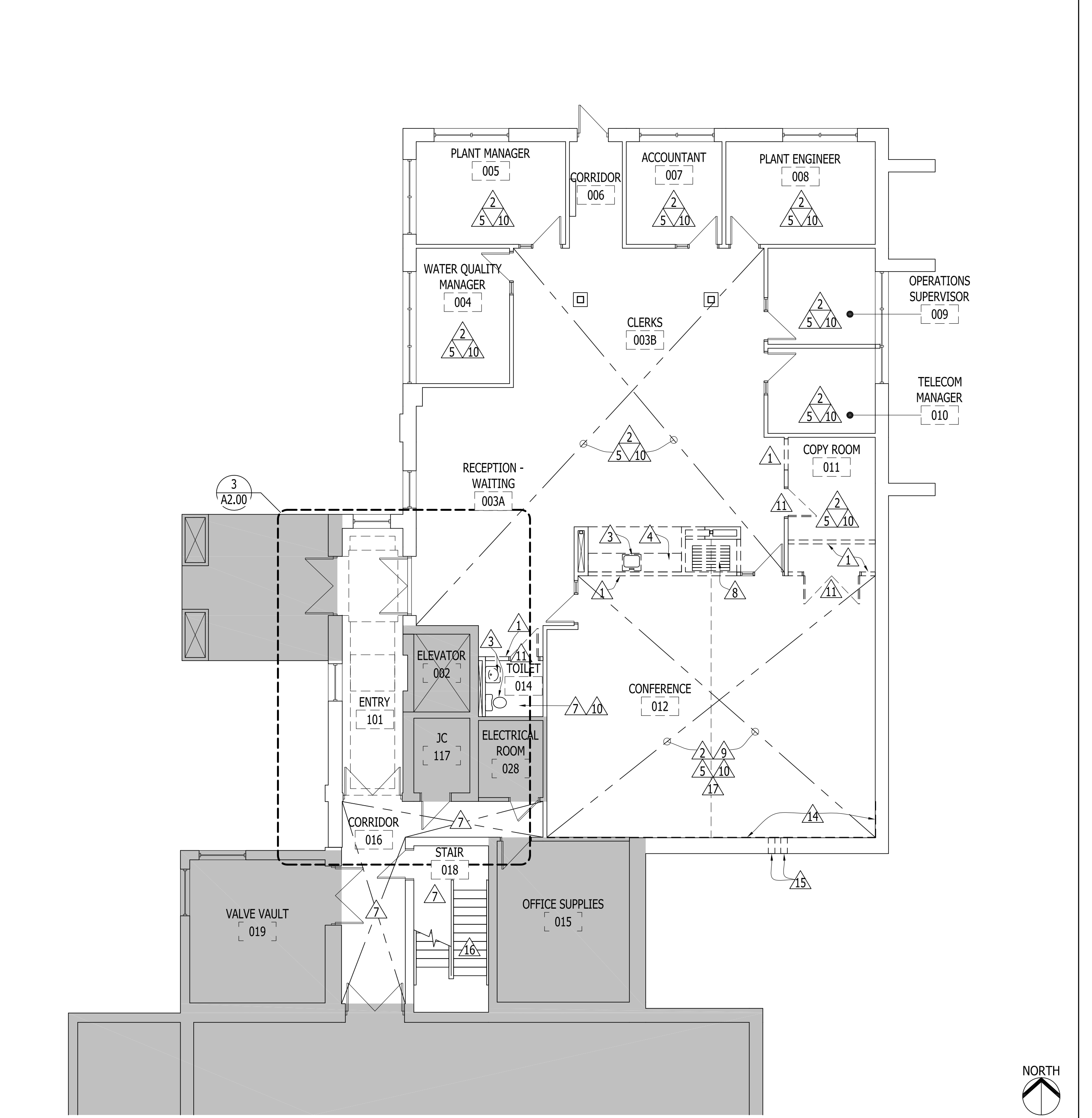
18015-A1.01
DEMOLITION PLAN KEYED NOTES NO SCALE REF'D FROM: TS **11**

18015 DM02
FIRST FLOOR DEMOLITION PLAN SCALE: 1/8"=1'-0" REF'D FROM: TS **3**

- DEMOLITION PLAN GENERAL NOTES:**
- A. GENERAL DEMOLITION NOTES AND KEYED DEMOLITION NOTES APPLY TO ALL ARCHITECTURAL DEMOLITION PLANS INCLUDED WITHIN THIS DOCUMENT SET.
 - B. COORDINATE ALL DEMOLITION WORK WITH MECHANICAL AND ELECTRICAL DEMOLITION PLANS, WITH OWNER, AND WITH SALVAGED ITEMS AND COMPONENTS TO BE USED ON NEW WORK AS INDICATED ON DRAWINGS AND WITHIN SPECIFICATIONS.
 - C. THESE DEMOLITION NOTES AND PLAN DO NOT FULLY REPRESENT ALL DEMOLITION WORK REQUIRED TO INSTALL NEW WORK IN ACCORDANCE WITH CONTRACT DOCUMENTS, BUT ARE INTENDED TO SERVE AS GENERAL DEMOLITION GUIDELINES. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF INCIDENTAL DEMOLITION WORK NOT INDICATED ON THIS PLAN.
 - D. ALL WORK INDICATED WITH SOLID LINES IS EXISTING TO REMAIN, UNO.
 - E. REFER TO DRAWINGS FOR EXISTING BUILDING COMPONENTS TO BE REMOVED, SALVAGED, AND REUSED IN NEW WORK. THE CONTRACTOR IS RESPONSIBLE FOR ALL ITEMS TO BE SALVAGED AND RELOCATED, THROUGHOUT THE CONSTRUCTION PERIOD, INCLUDING SAFE STORAGE OF SAME. UPON DEMOLITION, THE OWNER SHALL RETAIN THOSE ITEMS DEEMED SALVAGEABLE. ITEMS NOT RETAINED SHALL BECOME THE PROPERTY OF THE CONTRACTOR, WHO SHALL LEGALLY DISPOSE OF SAME.
 - F. REFER TO DEMOLITION PLANS FOR INCIDENTAL DEMOLITION WORK OR TEMPORARY WORK REQUIRED TO ACCOMMODATE PHASING OF CONSTRUCTION OPERATIONS DURING CONSTRUCTION PERIOD.
 - G. WHERE ITEMS ARE REMOVED, PATCH SURFACES TO MATCH ADJACENT SURFACES OR TO RECEIVE NEW FINISHES WHERE SCHEDULED. PATCHING OF NEW OR EXISTING FINISHES SHALL EXTEND TO NEAREST NATURAL BREAK OR TERMINATION FOR A CLEAN, UNBLEMISHED APPEARANCE AT THE END OF CONSTRUCTION.
 - H. COORDINATE WITH OWNER EXTENT OF EXISTING CASEWORK AND SHELVING TO REMAIN.
 - I. SEE PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS FOR EXTENT OF FIXTURE AND EQUIPMENT DEMOLITION.



18015-A1.01
GENERAL DEMOLITION PLAN NOTES AND LEGEND SCALE: 1/8"=1'-0" REF'D FROM: TS **13**



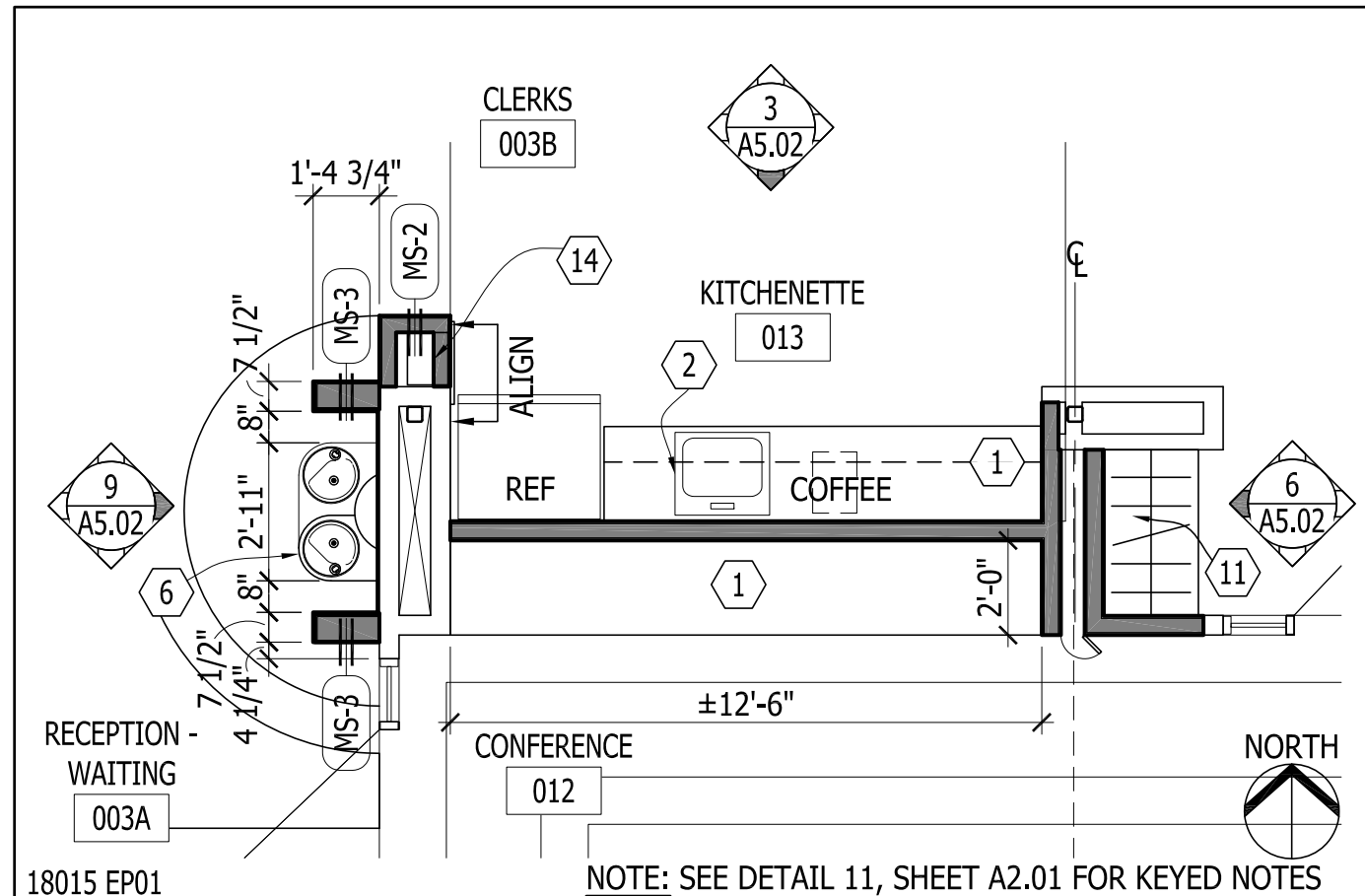
18015 DM01
GROUND FLOOR DEMOLITION PLAN SCALE: 1/8"=1'-0" REF'D FROM: TS **1**

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Ground And First Floor Demolition Plans
PROJECT
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 Ann Arbor MI 48103

REVISIONS / ADDENDA:	
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SCALE:	
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DRAWN BY:	---
DATE:	08/28/2018
PROJECT NUMBER:	STRUC TEC: T18074 A3C: 18015
DRAWING NUMBER:	A1.01

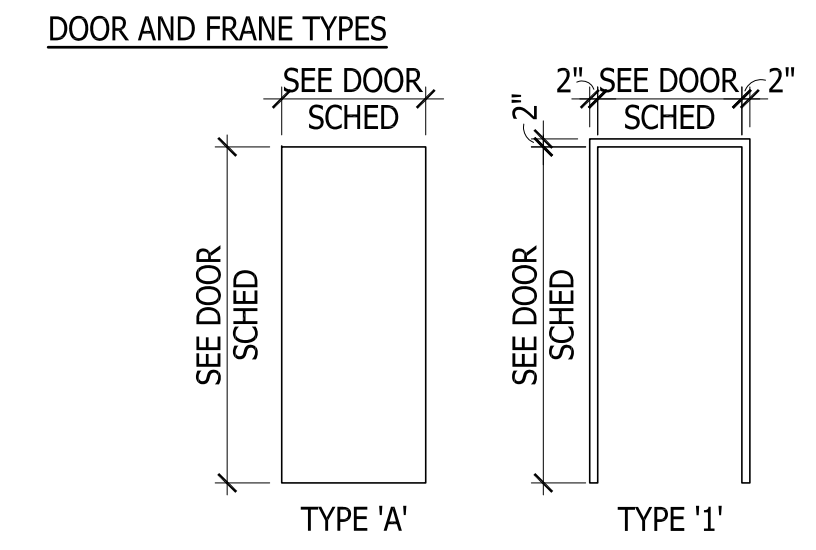


ENLARGED PLAN SCALE: 1/4"=1'-0" REF'D FROM: A2.01 11

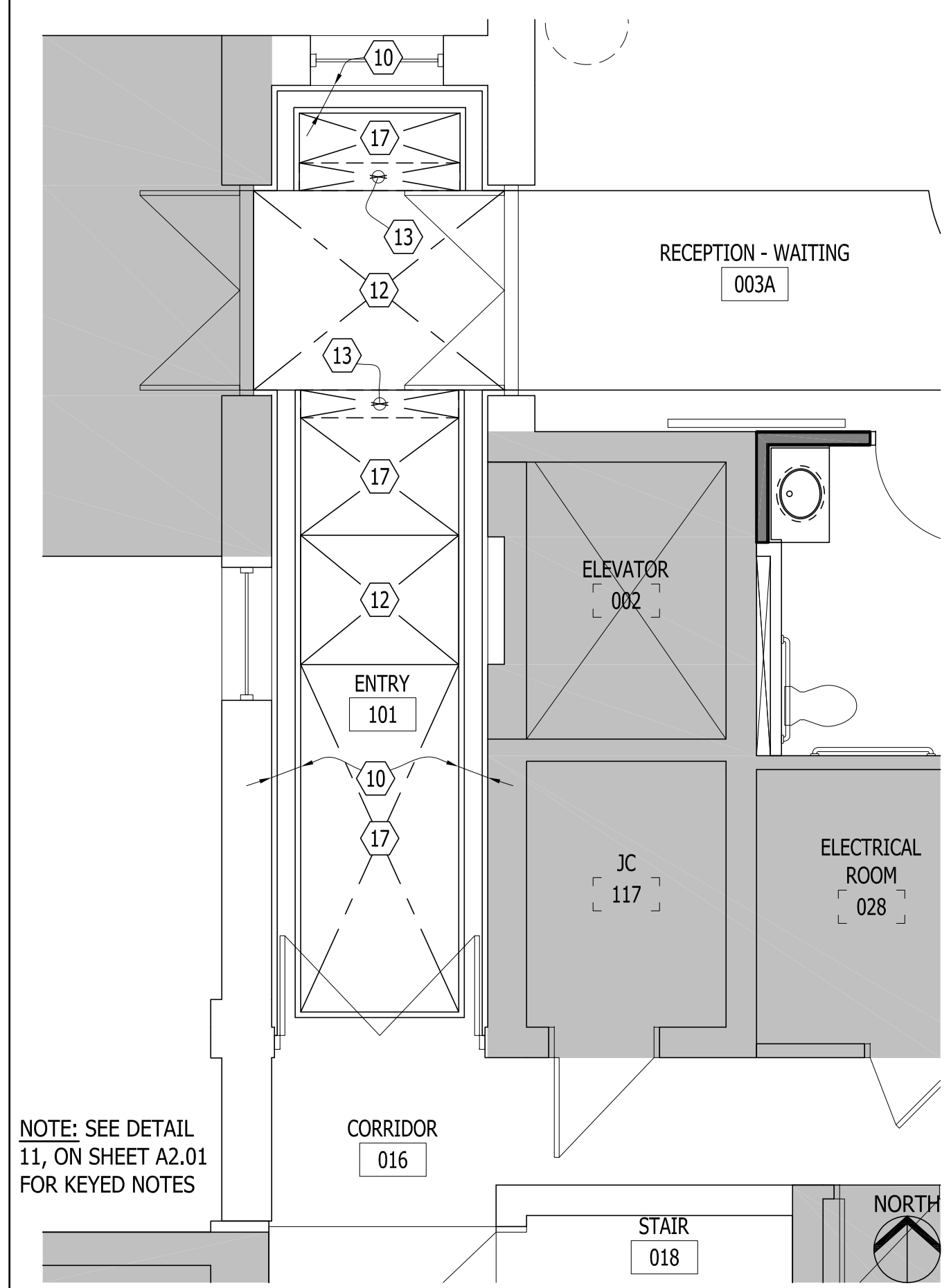
TAG	ROOM NAME	DOOR						SIDELITE	FRAME		THRESHOLD	LABEL	HARDWARE SET	ELEVATION DOOR/ FRAME	DETAIL			KEYED NOTES	TAG
		SIZE (WxH)	THICKNESS	MATERIAL	FINISH	CORE	GLASS		MATERIAL	FINISH					HEAD	JAMB	THRESHOLD		
004	WATER QUALITY MANAGER	3'-0" x 7'-0"	1 3/4"	EX	EX	EX	-	-	HM	PT-6	-	-	EX	-	NA	NA	NA	1	004
005	PLANT MANAGER	3'-0" x 7'-0"	1 3/4"	EX	EX	EX	-	-	HM	PT-6	-	-	EX	-	NA	NA	NA	1	005
007	ACCOUNTANT	3'-0" x 7'-0"	1 3/4"	EX	EX	EX	-	-	HM	PT-6	-	-	EX	-	NA	NA	NA	1	007
008	PLANT ENGINEER	3'-0" x 7'-0"	1 3/4"	EX	EX	EX	-	-	HM	PT-6	-	-	EX	-	NA	NA	NA	1	008
009	OPERATIONS SUPERVISOR	3'-0" x 7'-0"	1 3/4"	EX	EX	EX	-	-	HM	PT-6	-	-	EX	-	NA	NA	NA	1	009
010	TELECOM MANAGER	3'-0" x 7'-0"	1 3/4"	EX	EX	EX	-	-	HM	PT-6	-	-	EX	-	NA	NA	NA	1	010
011	COPY ROOM	3'-0" x 7'-0"	1 3/4"	WD	PREFIN	HC	-	-	HM	PT-6	-	-	01	A/1	10/A8.01	9/A8.01	-	-	011
012A	CONFERENCE	3'-0" x 7'-0"	1 3/4"	EX	EX	EX	-	-	HM	PT-6	-	-	EX	-	NA	NA	NA	1	012A
012B	CONFERENCE	3'-0" x 7'-0"	1 3/4"	EX	EX	EX	-	-	HM	PT-6	-	-	EX	-	NA	NA	NA	1	012B
012C	CONFERENCE	4 @ 1'-6" x 7'-6"	1 1/2"	WD	VN	HC	-	-	NA	NA	-	-	04	A/-	16/A8.01	12/A8.01	-	-	012C
012D	CONFERENCE	4 @ 1'-6" x 7'-6"	1 1/2"	WD	VN	HC	-	-	NA	NA	-	-	04	A/-	16/A8.01	12/A8.01	-	-	012D
012E	CONFERENCE	4 @ 1'-4 1/2" x 8'-0"	1 1/2"	WD	VN	HC	-	-	NA	NA	-	-	04	A/-	16/A8.01	12/A8.01	-	-	012E
012F	CONFERENCE	4 @ 1'-6" x 7'-6"	1 1/2"	WD	VN	HC	-	-	NA	NA	-	-	04	A/-	16/A8.01	12/A8.01	-	-	012F
012G	CONFERENCE	4 @ 1'-6" x 7'-6"	1 1/2"	WD	VN	HC	-	-	NA	NA	-	-	04	A/-	16/A8.01	12/A8.01	-	-	012G
012H	CONFERENCE	PR 1'-4 1/2" x 7'-6"	1 1/2"	WD	VN	HC	-	-	NA	NA	-	-	03	A/1	16/A8.01	12/A8.01	-	-	012H
014	TOILET	3'-0" x 7'-0"	1 3/4"	WD	PREFIN	HC	-	-	HM	PT-6	SSM	-	02	A/1	10/A8.01	9/A8.01	11/A8.01	-	014

DOOR SCHEDULE NOTES:
 1. EXISTING DOOR AND FRAME TO REMAIN UNCHANGED, PAINT DOOR FRAME PT-6

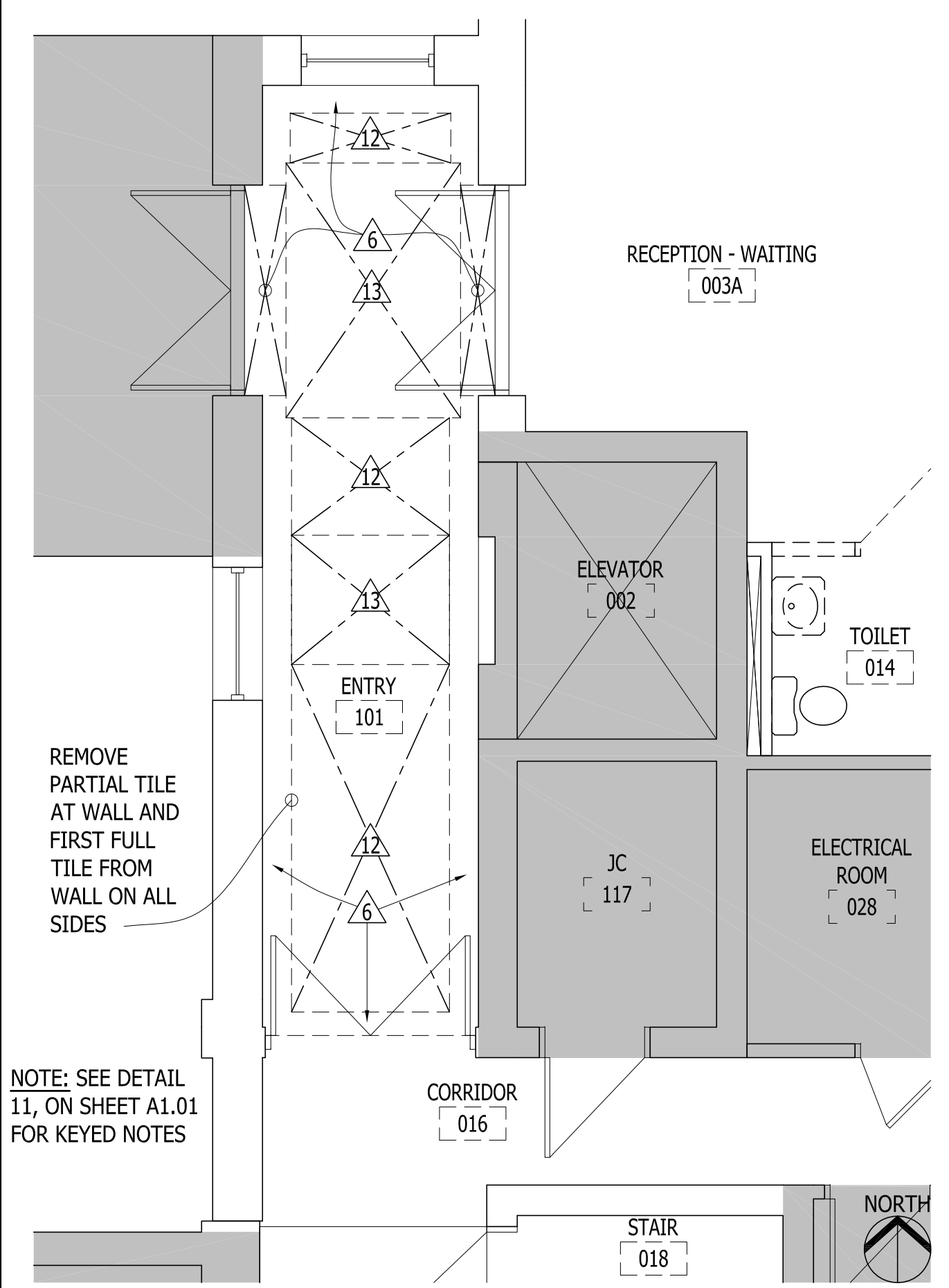
ABBREVIATIONS:
 CLR - CLEAR PR - PAIR
 EX - EXISTING PREFIN - PRE-FINISHED
 HM - HOLLOW METAL SSM - SOLID SURFACE MATERIAL
 HC - HONEY COMB WD - WOOD
 NA - NOT APPLICABLE VN - VENEER, CLEAR FINISH
 PT - PAINT



DOOR SCHEDULE AND NOTES NO SCALE REF'D FROM: A2.01 9



ENLARGED PLAN SCALE: 1/4"=1'-0" REF'D FROM: A2.01 4

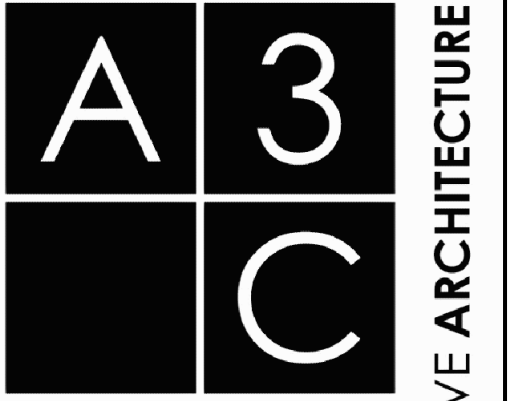


DEMOLITION ENLARGED PLAN SCALE: 1/4"=1'-0" REF'D FROM: A1.01 3

WALL TYPES LEGEND							
TYPE	FRAMING	CLADDING	FIRE RATING	UL DESIGN	SOUND RATING	INSULATION	SPECIAL NOTES
MS-1	3-5/8" X 25 GA. (Minimum) METAL STUDS, 16" O.C., FROM FLOOR TO 3" ABOVE CEILING HEIGHT. EXTEND EVERY THIRD STUD AT 48" O.C. TO STRUCTURE ABOVE AND BRACE LATERALLY TO STRUCTURE ABOVE AT 48" O.C.	ONE (1) LAYER 5/8" REGULAR GYPSUM BOARD, EACH SIDE, FROM FLOOR TO 3" ABOVE CEILING HEIGHT.	NA	NA	45 STC	3-1/2" ACOUSTICAL BATT INSULATION	REFER TO REFLECTED CEILING PLANS FOR CEILING HEIGHTS; OMIT ACOUSTICAL INSULATION AT WING WALLS WHERE STC RATING IS NOT POSSIBLE.
MS-2	3-5/8" X 25 GA. (Minimum) METAL STUDS, 16" O.C., FROM FLOOR TO 3" ABOVE CEILING HEIGHT. EXTEND EVERY THIRD STUD AT 48" O.C. TO STRUCTURE ABOVE AND BRACE LATERALLY TO STRUCTURE ABOVE AT 48" O.C.	ONE (1) LAYER 5/8" REGULAR GYPSUM BOARD, ONE SIDE, FROM FLOOR TO 3" ABOVE CEILING HEIGHT.	NA	NA	NA	NA	REFER TO REFLECTED CEILING PLANS FOR CEILING HEIGHTS.
MS-3	6" X 25 GA. METAL STUDS, 16" O.C., FROM FLOOR TO 3" ABOVE CEILING HEIGHT. EXTEND EVERY THIRD STUD AT 48" O.C. TO STRUCTURE ABOVE AND BRACE LATERALLY TO STRUCTURE ABOVE AT 48" O.C.	ONE (1) LAYER 5/8" REGULAR GYPSUM BOARD, EACH SIDE, FROM FLOOR TO 3" ABOVE CEILING HEIGHT.	NA	NA	NA	NA	REFER TO REFLECTED CEILING PLANS FOR CEILING HEIGHTS.
MS-4	STUD DEPTH TO SUIT X 25 GA. (Minimum) METAL STUDS, 16" O.C., FULL HEIGHT OF EXISTING WALL OPENING	GYPSUM BOARD, OF TYPE AND THICKNESS TO SUIT	MATCH EXISTING ADJACENT WALL RATING	N/A	MATCH EXISTING ADJACENT WALL RATING	MATCH EXISTING ADJACENT WALL INSULATION	MATCH EXISTING ADJACENT WALL THICKNESS, SOUND RATING, FIRE RATING, AND FINISH

WALL TYPES LEGEND NO SCALE REF'D FROM: TS 1

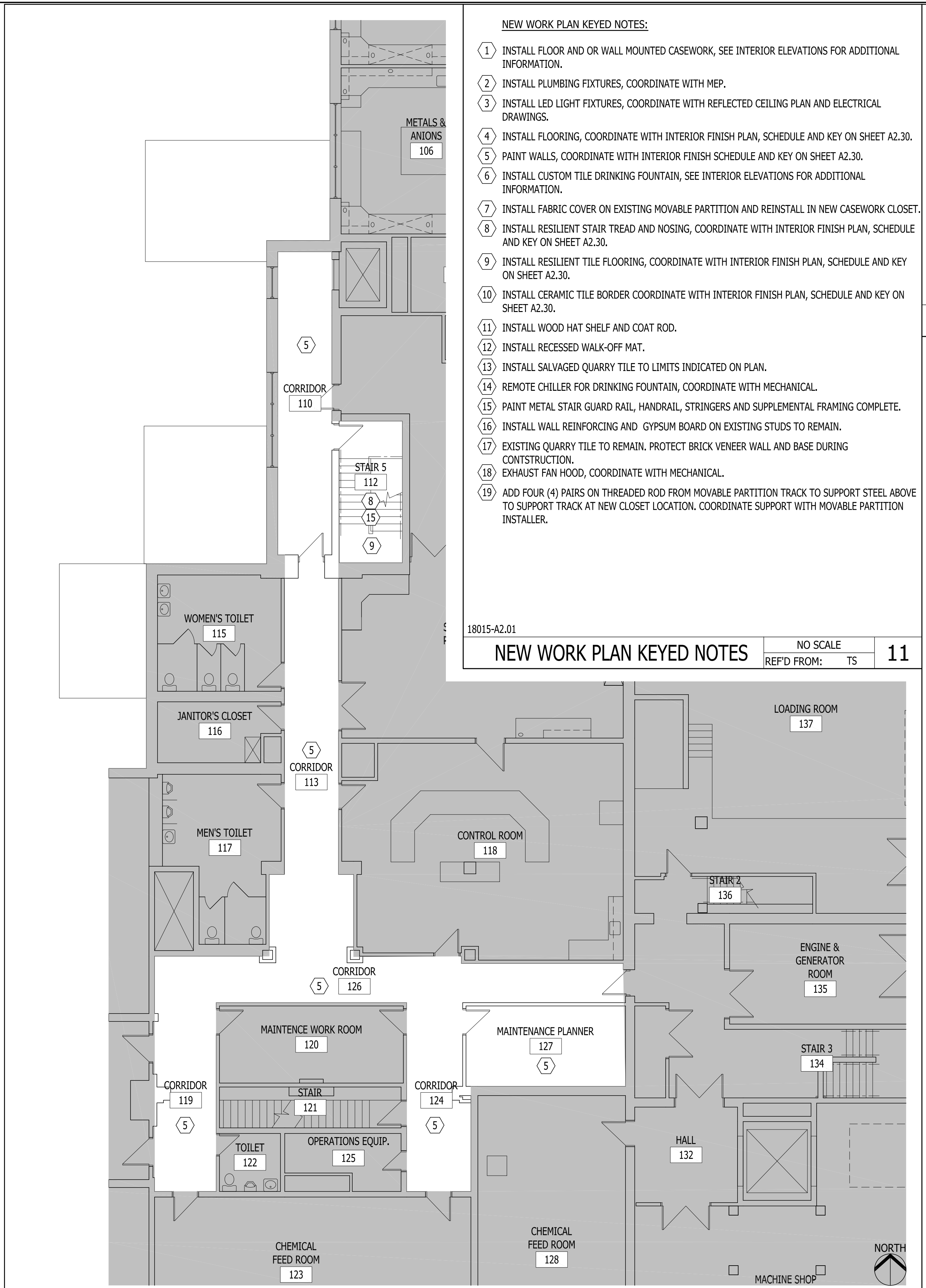
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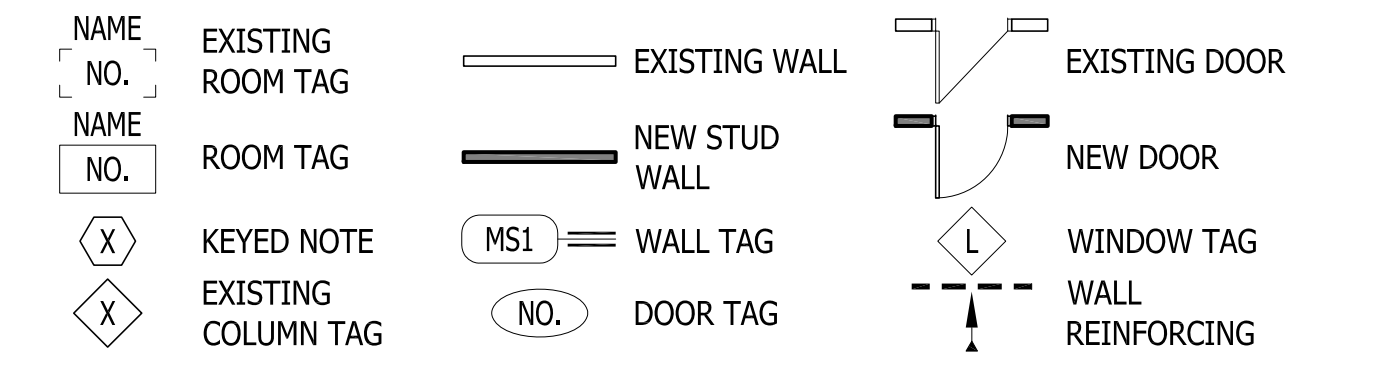


- NEW WORK PLAN KEYED NOTES:**
- 1 INSTALL FLOOR AND OR WALL MOUNTED CASEWORK, SEE INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
 - 2 INSTALL PLUMBING FIXTURES, COORDINATE WITH MEP.
 - 3 INSTALL LED LIGHT FIXTURES, COORDINATE WITH REFLECTED CEILING PLAN AND ELECTRICAL DRAWINGS.
 - 4 INSTALL FLOORING, COORDINATE WITH INTERIOR FINISH PLAN, SCHEDULE AND KEY ON SHEET A2.30.
 - 5 PAINT WALLS, COORDINATE WITH INTERIOR FINISH SCHEDULE AND KEY ON SHEET A2.30.
 - 6 INSTALL CUSTOM TILE DRINKING FOUNTAIN, SEE INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
 - 7 INSTALL FABRIC COVER ON EXISTING MOVABLE PARTITION AND REINSTALL IN NEW CASEWORK CLOSET.
 - 8 INSTALL RESILIENT STAIR TREAD AND NOSING, COORDINATE WITH INTERIOR FINISH PLAN, SCHEDULE AND KEY ON SHEET A2.30.
 - 9 INSTALL RESILIENT TILE FLOORING, COORDINATE WITH INTERIOR FINISH PLAN, SCHEDULE AND KEY ON SHEET A2.30.
 - 10 INSTALL CERAMIC TILE BORDER COORDINATE WITH INTERIOR FINISH PLAN, SCHEDULE AND KEY ON SHEET A2.30.
 - 11 INSTALL WOOD HAT SHELF AND COAT ROD.
 - 12 INSTALL RECESSED WALK-OFF MAT.
 - 13 INSTALL SALVAGED QUARRY TILE TO LIMITS INDICATED ON PLAN.
 - 14 REMOTE CHILLER FOR DRINKING FOUNTAIN, COORDINATE WITH MECHANICAL.
 - 15 PAINT METAL STAIR GUARD RAIL, HANDRAIL, STRINGERS AND SUPPLEMENTAL FRAMING COMPLETE.
 - 16 INSTALL WALL REINFORCING AND GYPSUM BOARD ON EXISTING STUDS TO REMAIN.
 - 17 EXISTING QUARRY TILE TO REMAIN. PROTECT BRICK VENEER WALL AND BASE DURING CONSTRUCTION.
 - 18 EXHAUST FAN HOOD, COORDINATE WITH MECHANICAL.
 - 19 ADD FOUR (4) PAIRS ON THREADED ROD FROM MOVABLE PARTITION TRACK TO SUPPORT STEEL ABOVE TO SUPPORT TRACK AT NEW CLOSET LOCATION. COORDINATE SUPPORT WITH MOVABLE PARTITION INSTALLER.

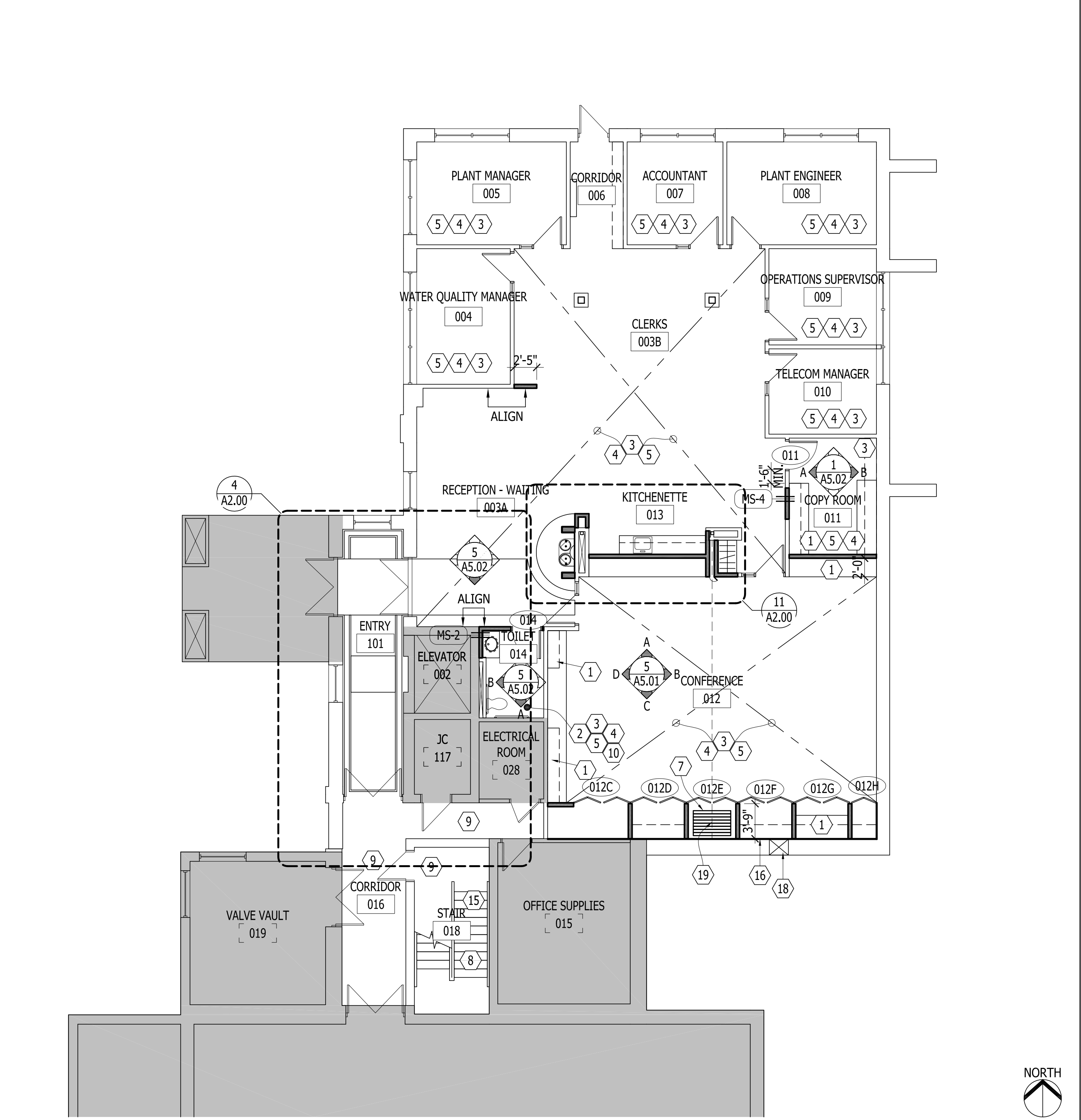
18015-A2.01
NEW WORK PLAN KEYED NOTES NO SCALE REF'D FROM: TS **11**

18015 FL02
FIRST FLOOR NEW WORK AND INTERIOR FINISH PLAN SCALE: 1/8"=1'-0" REF'D FROM: TS **3**

- GENERAL FLOOR PLAN NOTES:**
- A. GENERAL FLOOR PLAN / WALL NOTES AND WALL TYPES APPLY TO ALL FLOOR PLANS AND ENLARGED FLOOR PLANS INCLUDED WITHIN THIS DOCUMENT SET.
 - B. SEE SHEET A2.00 FOR WALL TYPES LEGEND. ALL NEW WALLS SHALL BE WALL TYPE MS1, UNO. IN ADDITION ALL INTERIOR WALL DIMENSIONS ARE TO FINISH FACE, UNO.
 - C. COORDINATE THE PHASING AND SEQUENCING OF NEW CONSTRUCTION WITH MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS AND WITH CONSTRUCTION PHASING SEQUENCE AS INCLUDED WITHIN GENERAL DEMOLITION NOTES LOCATED ELSEWHERE.
 - D. MAINTAIN INTEGRITY OF ALL NEW OR EXISTING FIRE RATED WALLS. REFER TO REFLECTED CEILING PLANS FOR FIRE RATED WALL LOCATIONS.
 - E. WHERE EXISTING SUBSTRATES ARE LOCATED WITHIN NEW FINISHED AREAS, OR PATCHING OF EXISTING SUBSTRATES WITHIN EXISTING ROOMS IS REQUIRED DUE TO WALL INFILL OR DEVICE REMOVAL, NEW FINISHES SHALL EXTEND TO NEAREST NATURAL BREAK OR TERMINATION FOR A CLEAN, UNBLEMISHED APPEARANCE AT THE END OF CONSTRUCTION. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF INCIDENTAL ADDITIONAL FINISH WORK ASSOCIATED WITH RESTORATION OF EXISTING FINISHES WHERE ALTERED BY ARCHITECTURAL, MECHANICAL AND ELECTRICAL WORK.
 - F. SEE FLOOR PLANS AND WALL REINFORCEMENT DETAIL FOR WALL REINFORCEMENT TO BE PROVIDED AT SYSTEMS FURNITURE. IN ADDITION, THE CONTRACTOR SHALL FURNISH AND
- INSTALL WALL REINFORCING FOR INSTALLATION OF EQUIPMENT, CASEWORK, TOILET ACCESSORIES, HANDRAILS, ETC.
- G. PROVIDE ACOUSTICAL GASKETS AT FLOOR TRACKS OF ALL NEW WALLS. ACOUSTICALLY ATTENUATE ALL BOXES, REGISTERS, AND OTHER PENETRATIONS, ETC. LOCATED WITHIN OR THROUGH NEW WALLS TO MAINTAIN WALL SOUND RATINGS.
 - H. SEE SHEET A2.00 FOR DOOR SCHEDULE AND SHEET A8.01 FOR RELATED DETAILS.
 - J. SEE SHEET A2.30 FOR INTERIOR FINISH SCHEDULE AND KEY.
 - K. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO BEGINNING WORK, OR SUPPLYING MATERIALS, OR COMPONENTS. LAYOUT ALL WALLS PRIOR TO COMMENCEMENT OF FRAMING AND NOTIFY ARCHITECT FOR DISPOSITION OF MAJOR DIMENSIONAL CONFLICTS.



GENERAL NEW WORK PLAN NOTES AND LEGEND NO SCALE REF'D FROM: TS **13**



18015 FL01
GROUND FLOOR NEW WORK PLAN SCALE: 1/8"=1'-0" REF'D FROM: TS **1**

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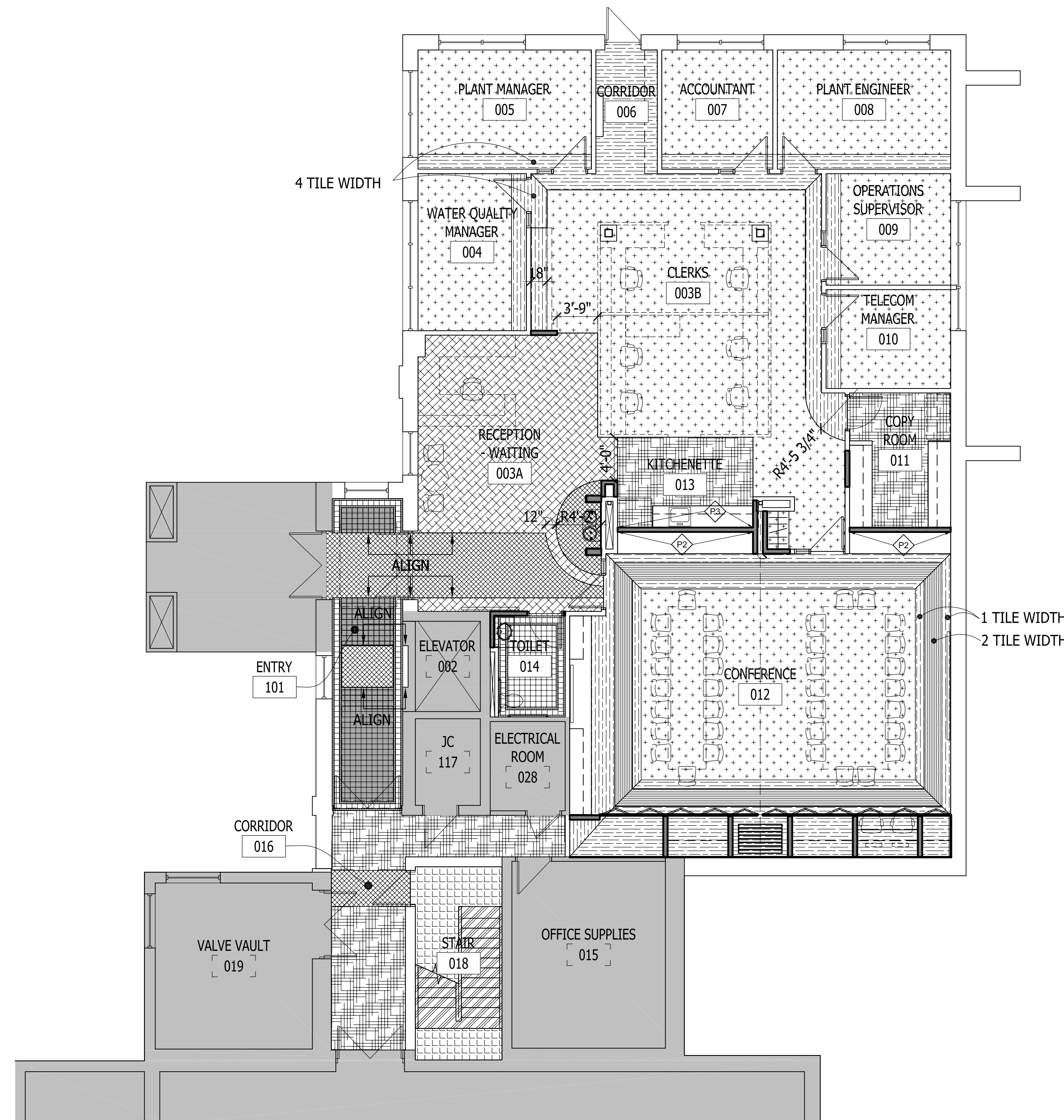
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SCALE:	
APPROVED BY:	..
DRAWN BY:	..
DATE:	08/28/2018
PROJECT NUMBER:	STRUC TEC: T18074 A3C: 18015
DRAWING NUMBER:	A2.01

FINISH PLAN NOTES:

- ALL EXPOSED CONDUIT, ELECT. BOXES, PIPES AND BUILDING FRAMING SHALL BE PAINTED TO MATCH ADJACENT SURFACE
- PROVIDE FLOOR TRANSITIONS AS FOLLOWS:
RTF TO CPT OR WOM: JOHNSONITE COLOR MOONROCK, PROFILE: CTA-XX-A
WOM TO TOILET ROOM: SOLID SURFACE THRESHOLD, BEVELED TO PROVIDE SMOOTH TRANSITION, COLOR: CORIAN ANTHRACITE
WOM TO EXISTING CERAMIC TILE/VESTIBULE TILE: JOHNSONITE SLIM LINE SLT-XX-F. COLOR BLACK
- ALL WOOD DOORS EXISTING TO REMAIN EXCEPT AT CONFERENCE 012. CONFERENCE ENTRY DOORS TO BE PAINTED P6 BOTH SIDES. NEW DOOR FOR TOILET 014 TO BE PAINTED P6 BOTH SIDES.
- SEE PLAN FOR ACCENT PAINT LOCATIONS NEEDING CLARIFIED FROM SCHEDULE.
- VERTICAL CASEWORK FINISH & CONFERENCE BI-FOLD DOORS TO BE NATURAL ASH
- PROVIDE DEDUCT ALTERNATE FOR A NON-MOTAWI SOLUTION FOR CTW1, CTW2, CTW4, & CTB1 AS FOLLOWS:
CTW1: DAL TILE CERAMIC TILE, NATURAL HUES, 2"x2" COLOR IVORY
CTW2: CEPAC TILE, QUAD: 1"x1", COLOR QUA 2M (MATTE) (BLACK)
CTW4: DAL TILE CERAMIC TILE, NATURAL HUES, 2"x2" COLORS "STARLIGHT" AND "ATLANTIS". SEE ELEVATION FOR RANDOM MOSAIC PATTERN.
CTB1: DAL TILE CERAMIC TILE, NATURAL HUES, 6"x6" COLOR "BLACK" QH45.(CONTACT: KELLY REICH: 734.787.7332)
- GROUT USED FOR FOUNTAIN ALCOVE (CTW1-CTW4 AND CTB1) TO BE TEC POWERGROUT - COLOR TBD BASED ON SAMPLE SUBMITTALS/DETERMINATION OF DEDUCT ALTERNATE.

NAME NO.	EXISTING ROOM TAG	NAME NO.	ROOM TAG
CPT1		RST1	
CPT2		RTF1	
CPT3		RTF2	
CTF1		WOM1	
CTF2		WOM2	
	EXISTING TILE TO REMAIN (ETR)		ACCENT PAINT

FINISH NOTES	NO SCALE	15
	REF'D FROM: TS	



18015 FE01 FURNITURE & INTERIOR FINISH PLAN SCALE: 1/8"=1'-0" REF'D FROM: TS 3

ROOM FINISH SCHEDULE												
NO.	ROOM	FLOOR		CEILING	WALLS				MISCELLANEOUS			REMARKS
		TYPE	BASE	TYPE	NORTH	EAST	SOUTH	WEST	DOOR FRAME	VERTICAL LAMINATE	COUNTER	
101	ENTRY	CTF1, CTF2, ETR, WOM2	ETR	ETR	ETR	ETR	ETR	ETR	P6			SALVAGE AND REUSE EXISTING QUARRY TILE FOR PATCHING AS REQUIRED FOR NEW LAYOUT
002	ELEVATOR			ETR	ETR	ETR	ETR	ETR	ETR			
003A	RECEPTION - WAITING	WOM1, WOM2	RB1, CTB1	ETR	P4, CTW1,2	P1, CTW2,4	P1, CTW1,2	P1	P6			CTB1 AT FOUNTAIN AREA ONLY. SEE ELEVATIONS
003B	CLERKS	CPT1, 2	RB1	ETR	P1	P1	P1	P1	P6			
004	WATER QUALITY MANAGER	CPT1, 2	RB1	ETR	P4	P1	P1	P1	P6			
005	PLANT MANAGER	CPT1, 2	RB1	ETR	P4	P1	P1	P1	P6			
006	CORRIDOR	CPT2	RB1	ETR	P1	P1	P1	P1	P6			
007	ACCOUNTANT	CPT1,2	RB1	ETR	P1	P3	P1	P1	P6			
008	PLANT ENGINEER	CPT1,2	RB1	ETR	P5	P2	P2	P2	P6			
009	OPERATIONS SUPERVISOR	CPT1,2	RB1	ETR	P3	P1	P1	P1	P6			
010	TELECOM MANAGER	CPT1,2	RB1	ETR	P5	P1	P1	P1	P6			
011	COPY ROOM	RTF2	RB1	ETR	P1	P1	P4	P1	P6	PL1		PL1 AT DESK NOOK ONLY. APPLY OFF1 TO EXISTING PARTITION. BI FOLD DOORS TO HAVE ASH VENEER
012	CONFERENCE	CPT1,2,3	WB1	ACT1, P7	P1,P2	P1	P1	P1	P6	SSM1, PL1		
013	KITCHENETTE	RTF2	RB1	ETR, P7	P1	P1	P3	P1	P6	SSM1		
014	TOILET	CTF1,2	CTB2	P7	P1	P1	P1, CTW5	P4, CTW5	P6	SSM2		
016	CORRIDOR	WOM2, RTF2	RB1	ETR	P1	P1	P1	P1	P6			
018	STAIR	RTF1, RST1	RB1	ETR	P4	P1	P1	P4	P6			INCLUDE RTF1 UNDER STAIR AT FIRST FLOOR
110	CORRIDOR	ETR	RB1	ETR	P1	P1	P1	P1	ETR			EXISTING CERAMIC WALL TILE TO REMAIN UNPAINTED
113	CORRIDOR	ETR	RB1	ETR	P1	P1	P1	P1	ETR			EXISTING CERAMIC WALL TILE TO REMAIN UNPAINTED
119	CORRIDOR	ETR	RB1	ETR	P1	P1	P1	P1	ETR			EXISTING CERAMIC WALL TILE TO REMAIN UNPAINTED
124	CORRIDOR	ETR	RB1	ETR	P1	P1	P1	P1	ETR			EXISTING CERAMIC WALL TILE TO REMAIN UNPAINTED
126	CORRIDOR	ETR	RB1	ETR	P1	P1	P1	P1	ETR			EXISTING CERAMIC WALL TILE TO REMAIN UNPAINTED
127	MAINTENANCE PLANNER	ETR	RB1	ETR	P1	P1	P1	P1	ETR			EXISTING CERAMIC WALL TILE TO REMAIN UNPAINTED

LIST OF FINISHES - FINISH KEY								
CODE	MATERIAL	MANUFACTURER	STYLE	COLOR	SIZE	MFR CODE	CONTACT	NOTES
ACT1	ACOUSTICAL CEILING TILE	ARMSTRONG	OPTIMA TEGULAR	WHITE	24"x24"	3251		WHITE 1/8" GRID
CPT1	CARPET TILE	SHAW CONTRACT	LINEWEIGHT TILE	GRAPHITE	18" x 36"	5T114-13510	KRISTIE BELEGRI: 419-346-5481	INSTALL ASHLAR
CPT2	CARPET TILE	INTERFACE	ON LINE	PEPPER	25cm x 1m	138700AK00-103788	KATIE HAUSER: 330-603-0608	INSTALL ASHLAR
CPT3	CARPET TILE	INTERFACE	ON LINE	FOG	25cm x 1m	138700AK00-105259	KATIE HAUSER: 330-603-0608	INSTALL ASHLAR
CTB1	CERAMIC TILE (BASE)	MOTAWI	STANDARD GLAZE FIELD TILE	BLACK MATTE OR BLACK GLOSSY	6" x 6"			
CTB2	CERAMIC TILE BASE	AMERICAN OLEAN	GLAZED WALL TILE	LIGHT SMOKE	6"x6" COVE	004	KATHLEEN SOMERVELL: 248-467-4362	USE TEC POWERGROUT COLOR 949 SILVERADO
CTF1	CERAMIC TILE FLOOR	SENECA TILES	QUARRY PAVERS	LAMBSWOOL	6" x 6"		MEGAN LYONS: 614-403-2227	USE TEC POWERGROUT COLOR 941 RAVEN
CTF2	CERAMIC TILE FLOOR	ALFALUX	OLIMPIA	LAVAGNA	2" x 2" MOSAIC		MEGAN LYONS: 614-403-2227	USE TEC POWERGROUT COLOR 941 RAVEN
CTW1	CERAMIC TILE WALL	MOTAWI	STANDARD GLAZE FIELD TILE	CREAM MATTE, CLEAR GLOSSY, BAY LEAF MATTE, OR CELEDON GLOSSY	2"x2" x 5/8"			CONTRACTOR TO PROVIDE A SET OF FULL GLAZE SAMPLES (3 OF EACH) OF EACH COLOR INDICATED FOR FINAL SELECTION.
CTW2	CERAMIC TILE WALL	MOTAWI	STANDARD GLAZE FIELD TILE	BLACK MATTE OR BLACK GLOSSY	1"x1" x 5/8"			CONTRACTOR TO PROVIDE A SET OF FULL GLAZE SAMPLES (3 OF EACH) OF EACH COLOR INDICATED FOR FINAL SELECTION.
CTW3A	CERAMIC TILE WALL	MOTAWI	FOOTLIGHTS, BORDER A, PALE GREEN	PALE GREEN	3"x6" x 5/8"	3638 PG		SEE ELEVATION FOR INSTALL LOCATION. CONTRACTOR TO PROVIDE A SAMPLE FOR FINAL COORDINATION
CTW3B	CERAMIC TILE WALL	MOTAWI	FOOTLIGHTS, BORDER B, PALE GREEN	PALE GREEN	3"x6" x 5/8"	3639 PG		SEE ELEVATION FOR INSTALL LOCATION
CTW4	CERAMIC TILE WALL	MOTAWI	STANDARD GLAZE FIELD TILE	CADET BLUE MATTE	2"x2" x 5/8"	5194		CONTRACTOR TO PROVIDE A SET OF FULL GLAZE SAMPLES FOR FINAL COORDINATION
CTW5	CERAMIC TILE WALL	AMERICAN OLEAN	GLAZED WALL TILE	LIGHT SMOKE	6"x6"	0004	KATHLEEN SOMERVELL: 248-467-4362	USE TEC POWERGROUT COLOR 949 SILVERADO
P1	PAINT	SHERWIN WILLIAMS	EGGSHELL	STEAMED MILK		SW7554	1-800-474-3794	
P2	PAINT	SHERWIN WILLIAMS	EGGSHELL	DORIAN GRAY		SW7017	1-800-474-3794	
P3	PAINT	SHERWIN WILLIAMS	EGGSHELL	GREEN ONYX		SW9128	1-800-474-3794	
P4	PAINT	SHERWIN WILLIAMS	EGGSHELL	POOLHOUSE		SW7603	1-800-474-3794	
P5	PAINT	SHERWIN WILLIAMS	EGGSHELL	INKY BLUE		SW9149	1-800-474-3794	
P6	PAINT	SHERWIN WILLIAMS	SEMI-GLOSS	IRON ORE		SW7069	1-800-474-3794	DOOR FRAMES AND STAIR RAIL
P7	PAINT	SHERWIN WILLIAMS	FLAT	HIGH REFLECTIVE WHITE		SW7757	1-800-474-3794	CEILINGS
PL1	PLASTIC LAMINATE	WILSONART		STEEL MESH		4879-38	SUE KAMPS: 616-291-1430	COUNTERS IN COPY ROOM AND ON CONFERENCE ROOM HIDDEN TABLE
RB1	RESILIENT BASE	JOHNSONITE RUBBER	COVE COIL BASE	GATEWAY	0'-4"	TA4	JOYCE SEAL: 330-801-8210	
RST1	RESILIENT STAIR TREAD/RISER	JOHNSONITE RUBBER	1 PIECE STAIR/TREAD COMBO - HAMMERED (HTR)	MYSTIQUE MICROTONE SPECKLED	SEE PLANS	HNSP-LG7	JOYCE SEAL: 330-801-8210	INCLUDE VISUALLY IMPAIRED SOLID COLOR RUBBER INSERT. COLOR #84 BLUE JEANS
RTF1	RESILIENT TILE FLOOR	JOHNSONITE - RUBBER	HAMMERED	QUENCHED MICROTONE SPECKLED	24" x 24" x 2MM THICK	HNSP-LB6	JOYCE SEAL: 330-801-8210	USED AT LANDINGS
RTF2	RESILIENT TILE FLOOR	MANNINGTON	AMTICO CITY BLOCK	SCALE	18" x 18"	ANT205	NANCY KINNET (440) 666.3896	
SSM1	SOLID SURFACE MATERIAL	CORIAN		LAVA ROCK	0'-0 1/2"		JOHN LENZ: 248-767-3369	
SSM2	SOLID SURFACE MATERIAL	CORIAN		(ALMOND) BONE			JOHN LENZ: 248-767-3369	INTEGRAL SINK TO MATCH
OFF1	OPERABLE PARTITION FABRIC	MDC	PHOENIX	THUNDER	4'-6"	MPT3004-4537	REBECCA KNOREK: 419-450-7875	RE-UPHOLSTER DIVIDER IN CONFERENCE ROOM
WB1	WOOD BASE		ASH	(NATURAL)	4"TH WITH EASED EDGE AT TOP			SEE ARCHITECTURAL FOR FINISH
WOM1	WALK-OFF MAT	INTERFACE	STEP REPEAT SR899	KHAKI	1388602500-104919	50CM x 50CM	KATIE HAUSER: 330-603-0608	IN ENTRY AND WAITING AREA. INSTALL MONOLITHIC.
WOM2	WALK-OFF MAT	MOHAWK	STEP IN STYLE II	OBSIDIAN	QL312-989	24" x 24"	TODD ACCHONE: 248-946-2410	IN ENTRY AND WAITING AREA. QUARTER TURN INSTALLATION.

INTERIOR FINISH SCHEDULE AND KEY: FLOOR 1 & FLOOR 2 NO SCALE REF'D FROM: TS 1

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Interior Finish Plan, Schedule, And Key
PROJECT
 CITY OF ANN ARBOR
 INTERIOR RENOVATION
 919 Sunset Road
 Ann Arbor MI 48103

REVISIONS / ADDENDA:
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SCALE:
APPROVED BY:

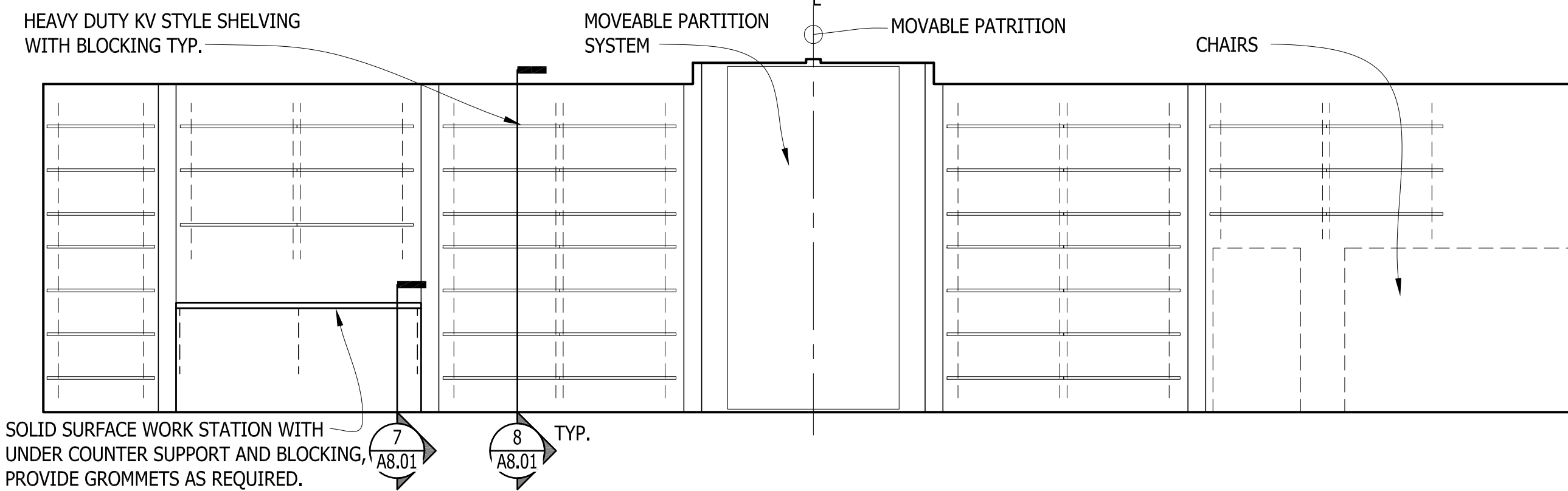
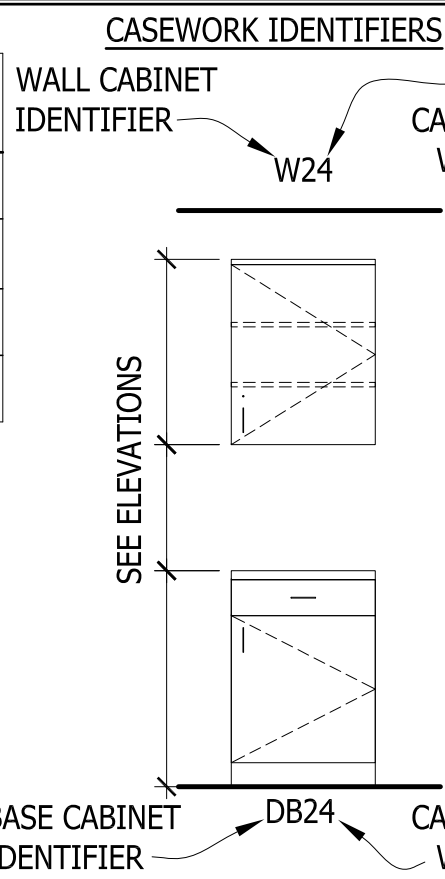
DRAWN BY:

DATE:
 Bid/Permit 08/28/2018
PROJECT NUMBER:
 STRUC TEC: T18074 A3C: 18015
DRAWING NUMBER:
A2.30

NOTES:
 1. CONTRACTOR SHALL MOUNT, INSTALL AND INSURE PRPER CONNECTION AND OPERATION OF TELEVISION MONITORS.
 2. MONITORS SHALL BE CAPABLE OF OPERATING AS 4 INDIVIDUAL SCREENS AND AS 1 LARGE SCREEN (MADE UP OF THE COMBINED 4 SCREENS TILED TOGETHER).

CASEWORK ABBREVIATIONS		
ABREV.	NAME	DETAIL NUMBER
B	BASE CABINET	1/A8.01
DB	DRAWER BASE CABINET	2/A8.01
SB	SINK BASE	3/A8.01
W	WALL CABINET	5/A8.01

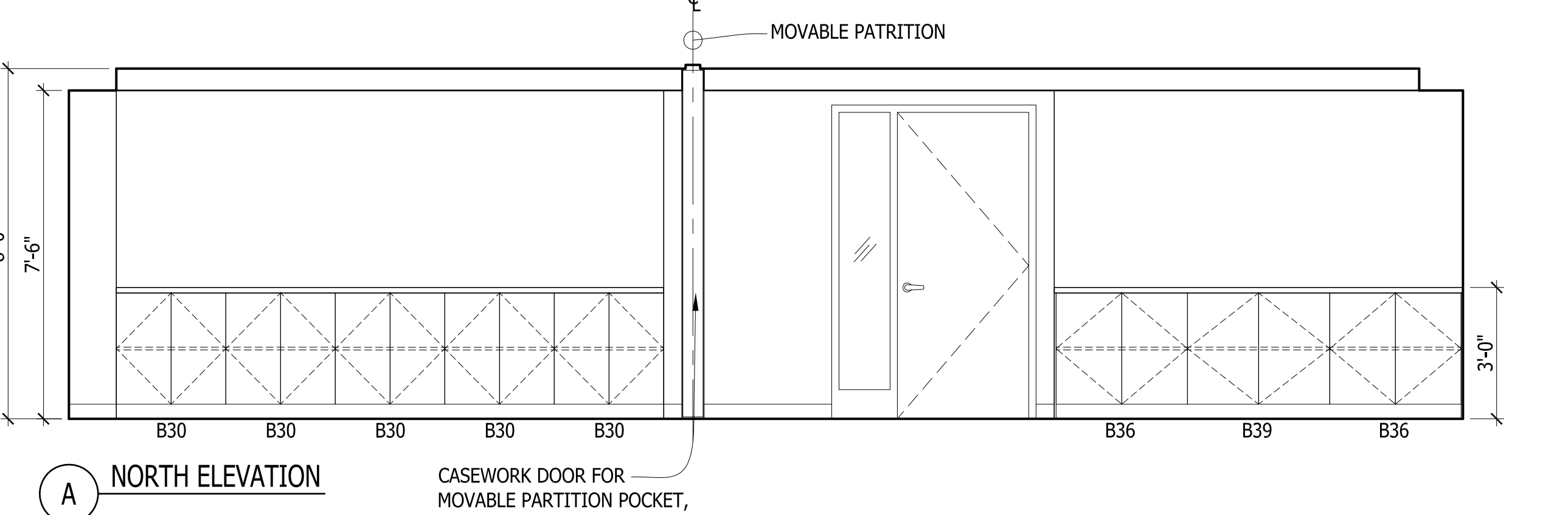
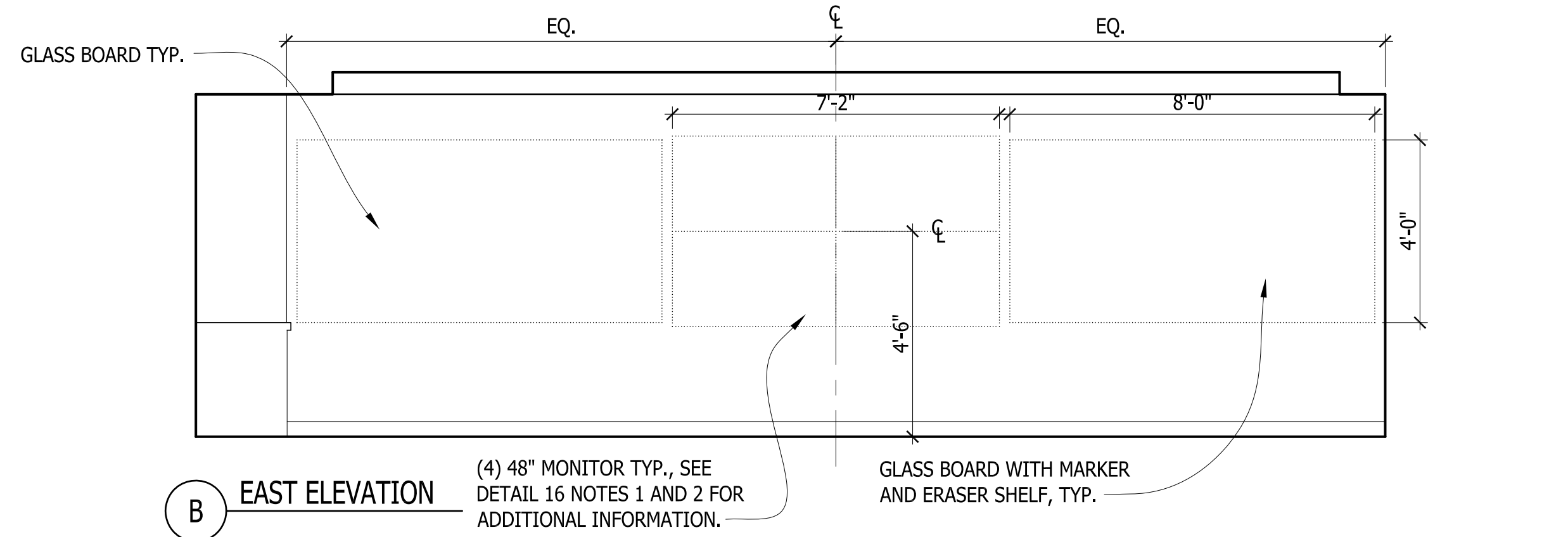
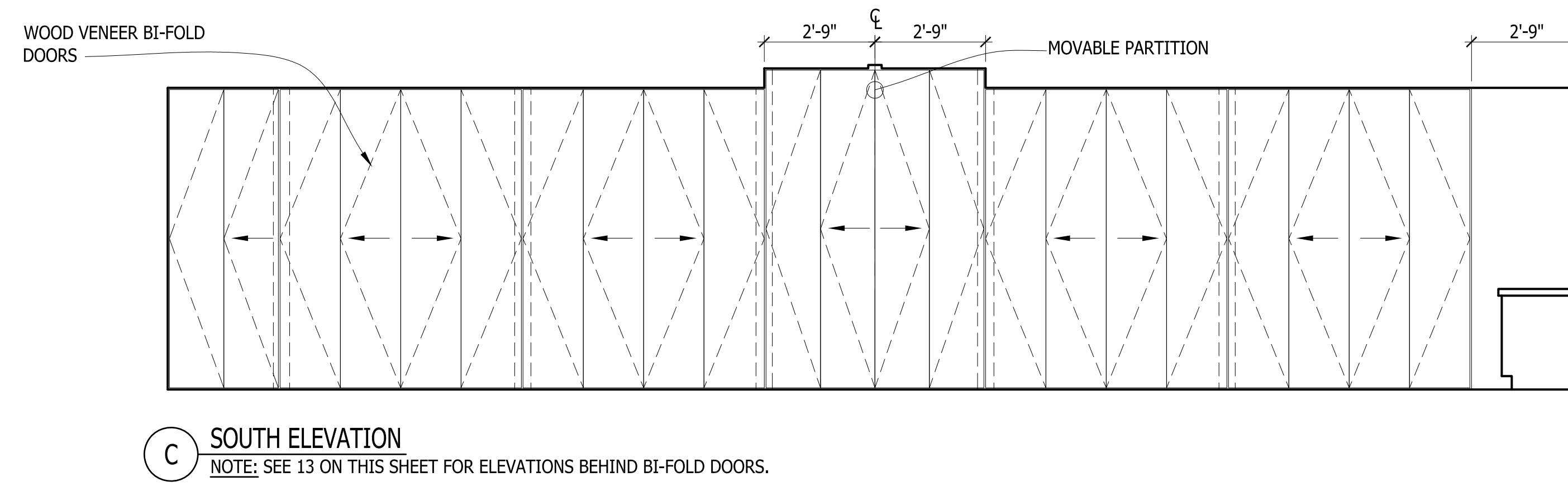
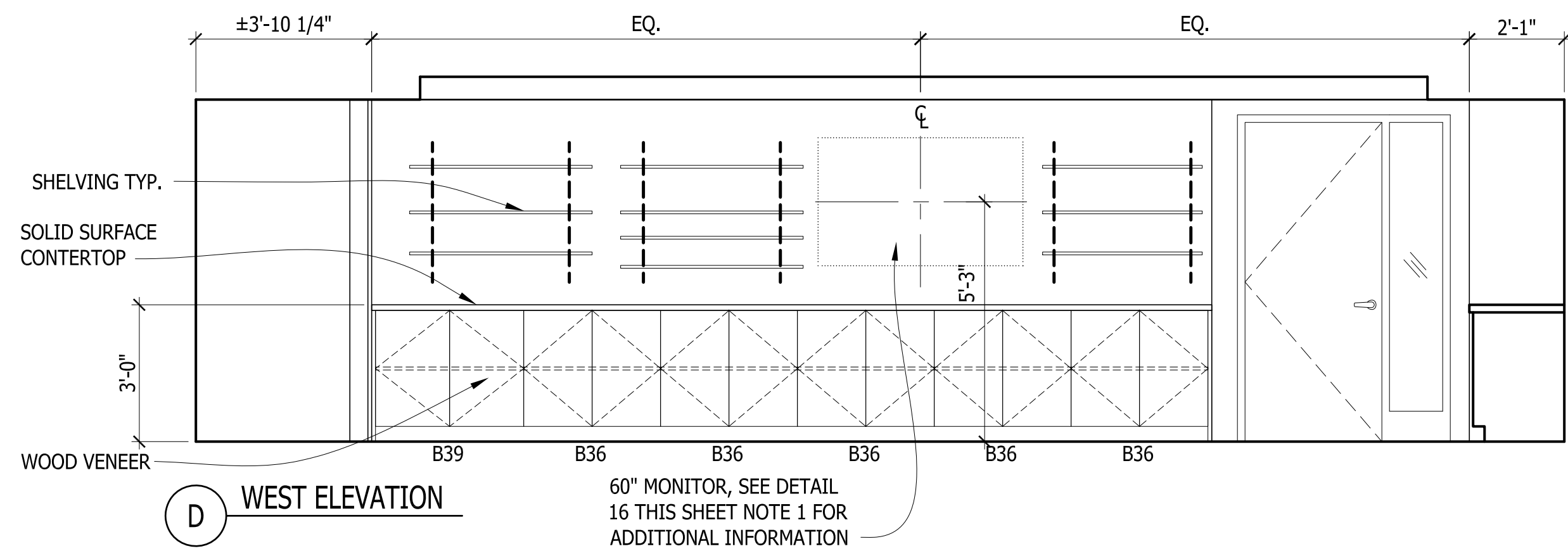
NOTE: SEE A8.01 FOR MILLWORK DETAILS CORRESPONDING TO THE RELATED MILLWORK ABBREVIATION ABOVE.



18015-A5.01
ELEVATION NOTES
 NO SCALE
 REF'D FROM: TS
16

18015 IE01
CASEWORK IDENTIFIER
 SCALE: 3/8"=1'-0"
 REF'D FROM: A2.01
15

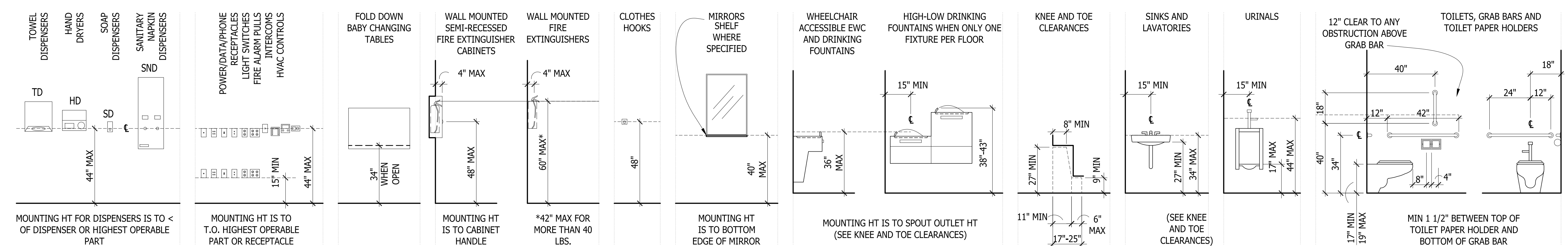
CONFERENCE ROOM STORAGE - SOUTH ELEVATION
 SCALE: 3/8"=1'-0"
 REF'D FROM: A2.01
13



18015 IE01

CONFERENCE 012
 SCALE: 3/8"=1'-0"
 REF'D FROM: A2.01
5

CONFERENCE 012
 SCALE: 3/8"=1'-0"
 REF'D FROM: A2.01
5



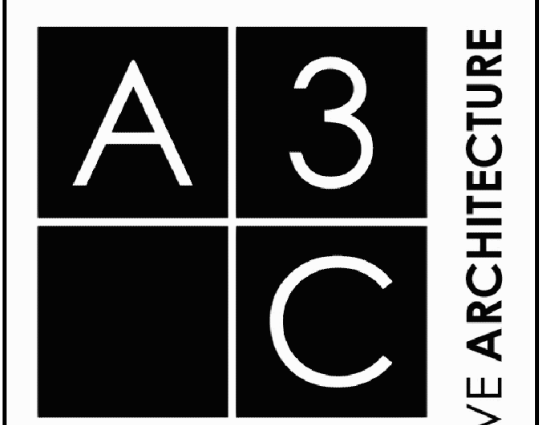
18015-IE01

TYPICAL MOUNTING HEIGHTS
 SCALE: 1/4"=1'-0"
 REF'D FROM: A5.1
1

TYPICAL MOUNTING HEIGHTS
 SCALE: 1/4"=1'-0"
 REF'D FROM: A5.1
1

NOTE: THIS DRAWING REPRESENTS TYPICALLY ENCOUNTERED ITEMS. NOT ALL ITEMS SHOWN MAY OCCUR WITHIN THE SCOPE OF THIS PROJECT. REFER TO COMPLETE SPECIFICATION AND DRAWING DOCUMENTATION SET.

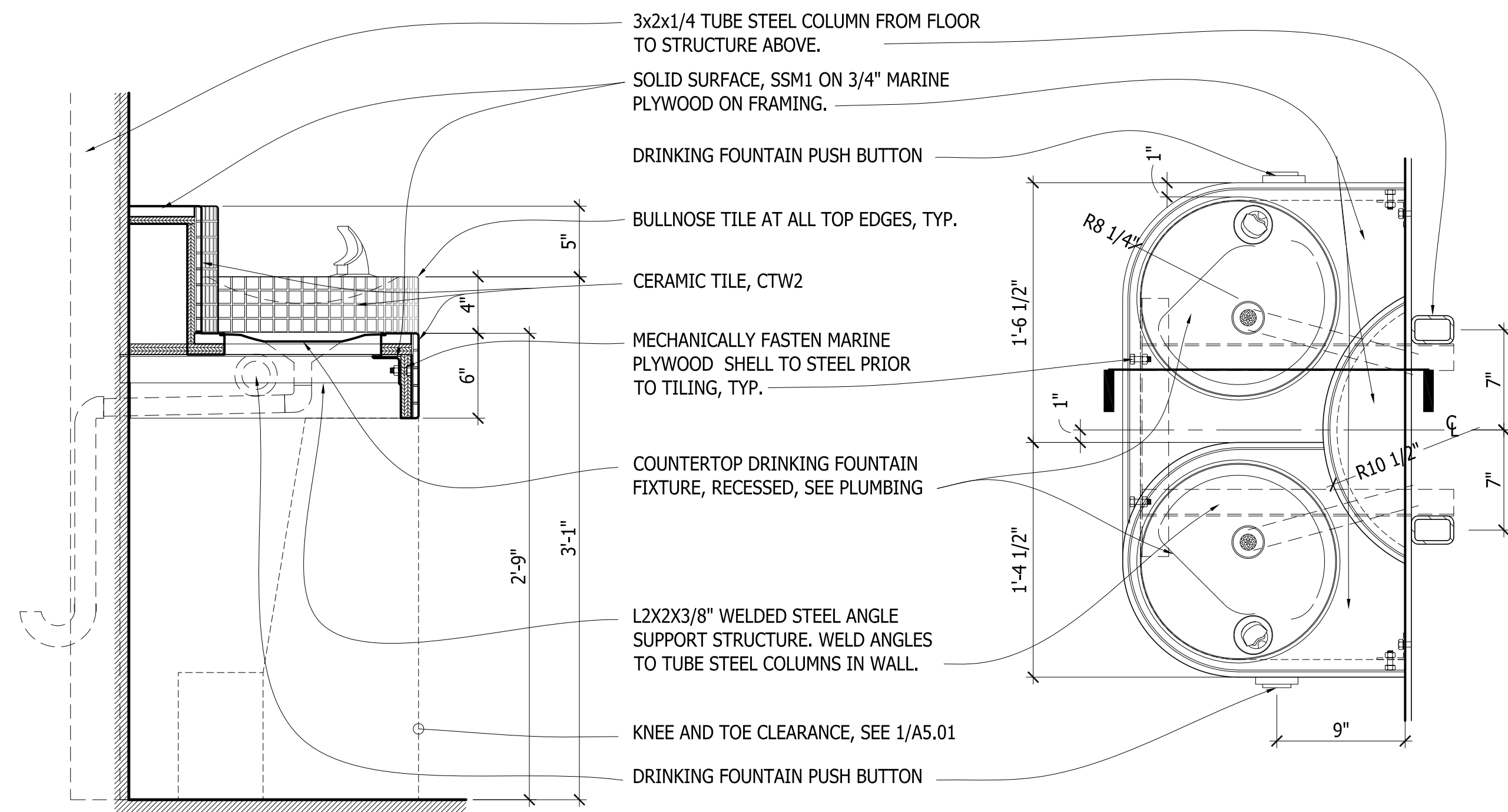
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Conference Room Interior Elevations
 And Typical Mounting Heights
PROJECT
 CITY OF ANN ARBOR
 INTERIOR RENOVATION
 919 Sunset Road
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REVISIONS / ADDENDA:
 -- : :
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SCALE:
APPROVED BY:
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DRAWN BY:
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DATE:
 Bid/Permit 08/28/2018
PROJECT NUMBER:
 STRUC TEC: T18074 A3C: 18015
DRAWING NUMBER:
A5.01



SECTION

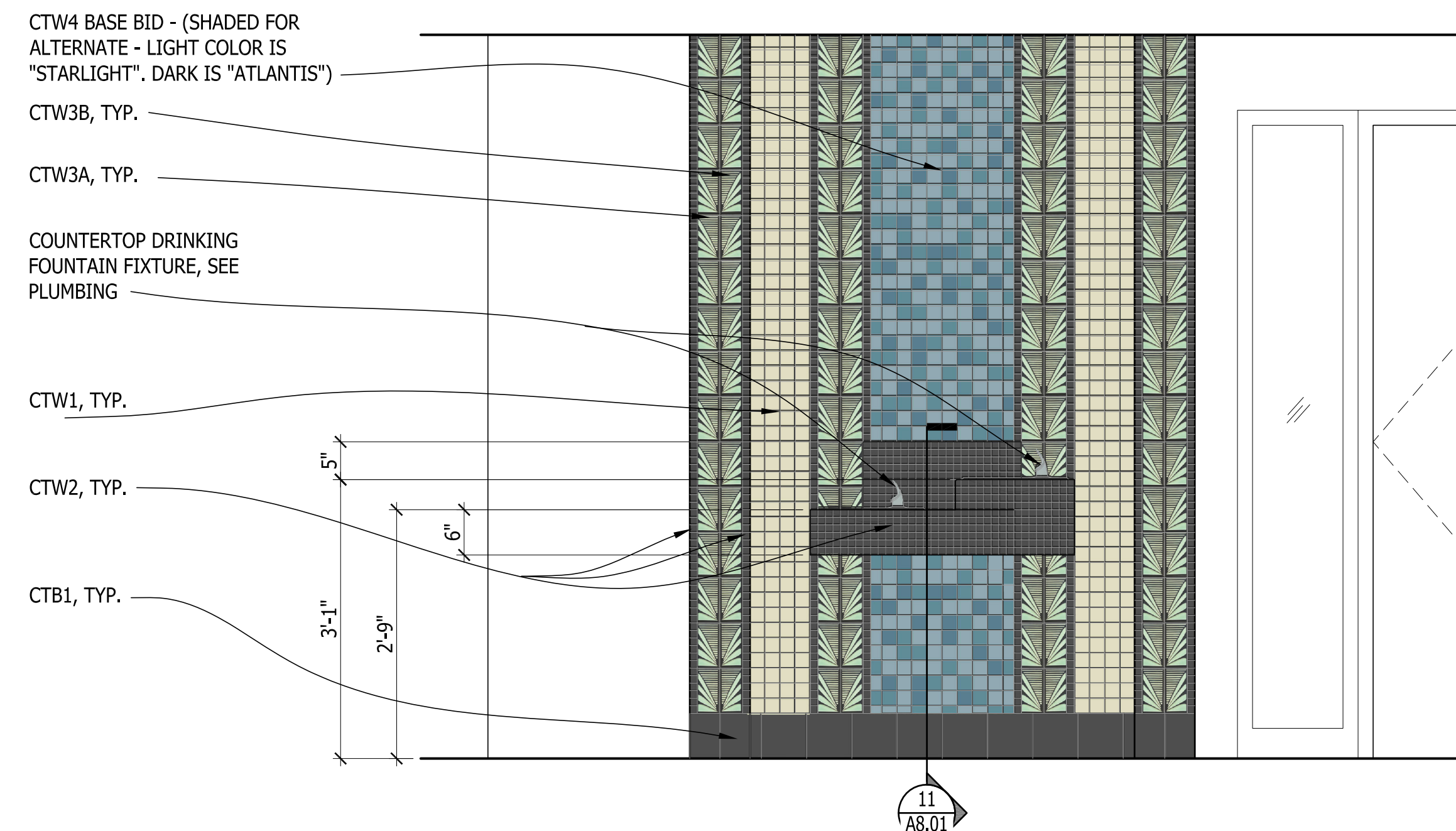
PLAN

18015-DT01

DRINKING FOUNTAIN DETAIL

SCALE: 1 1/2"=1'-0"
REF'D FROM: TS

11

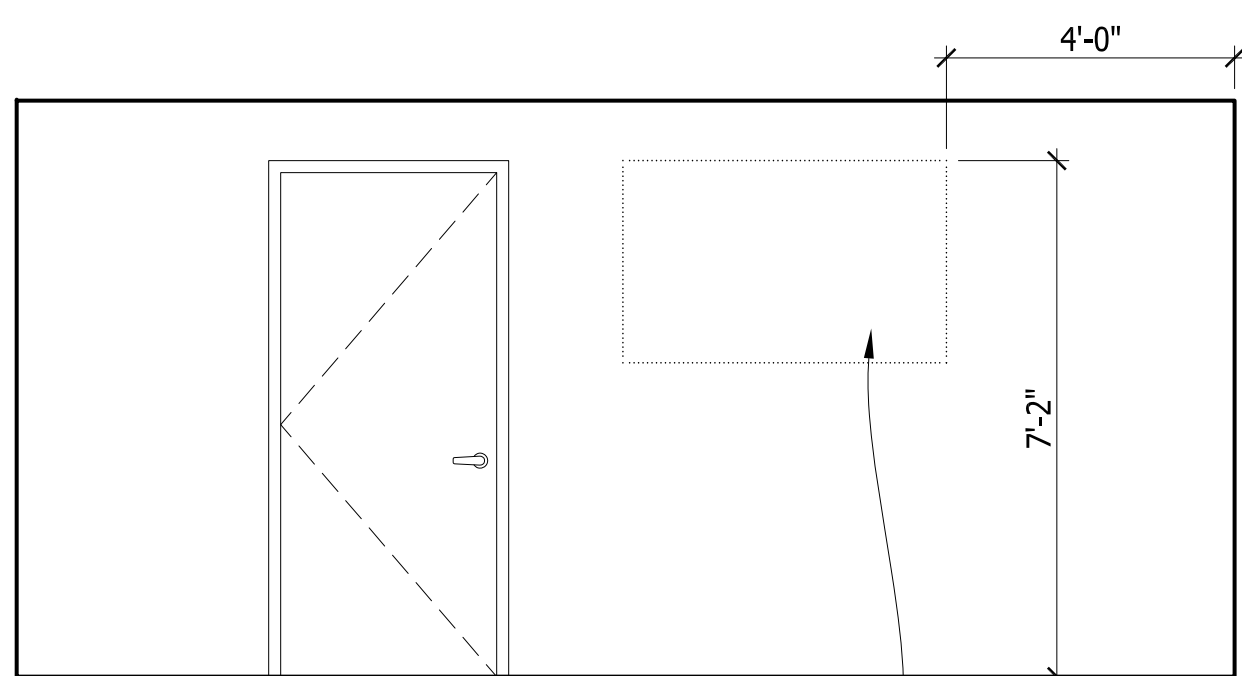


18015 IE01

DRINKING FOUNTAIN

SCALE: 3/4"=1'-0"
REF'D FROM: A2.00

9

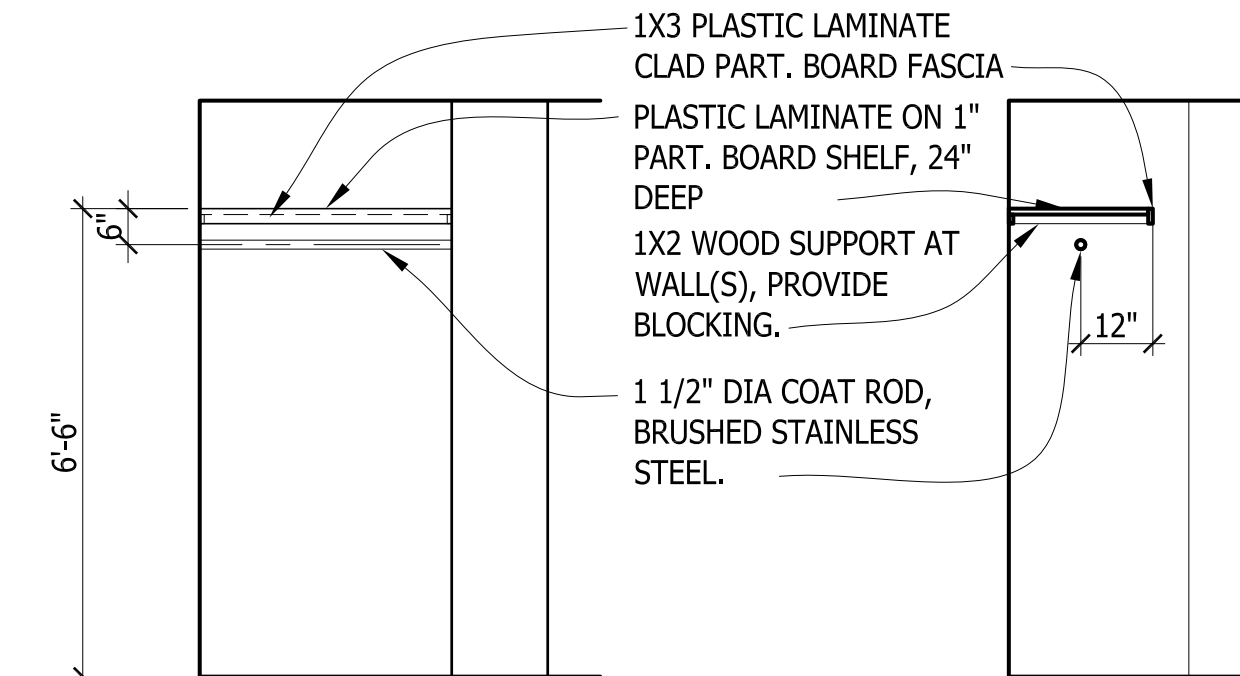


18015 IE01

RECEPTION - WAITING 003A

SCALE: 3/8"=1'-0"
REF'D FROM: A2.00

7

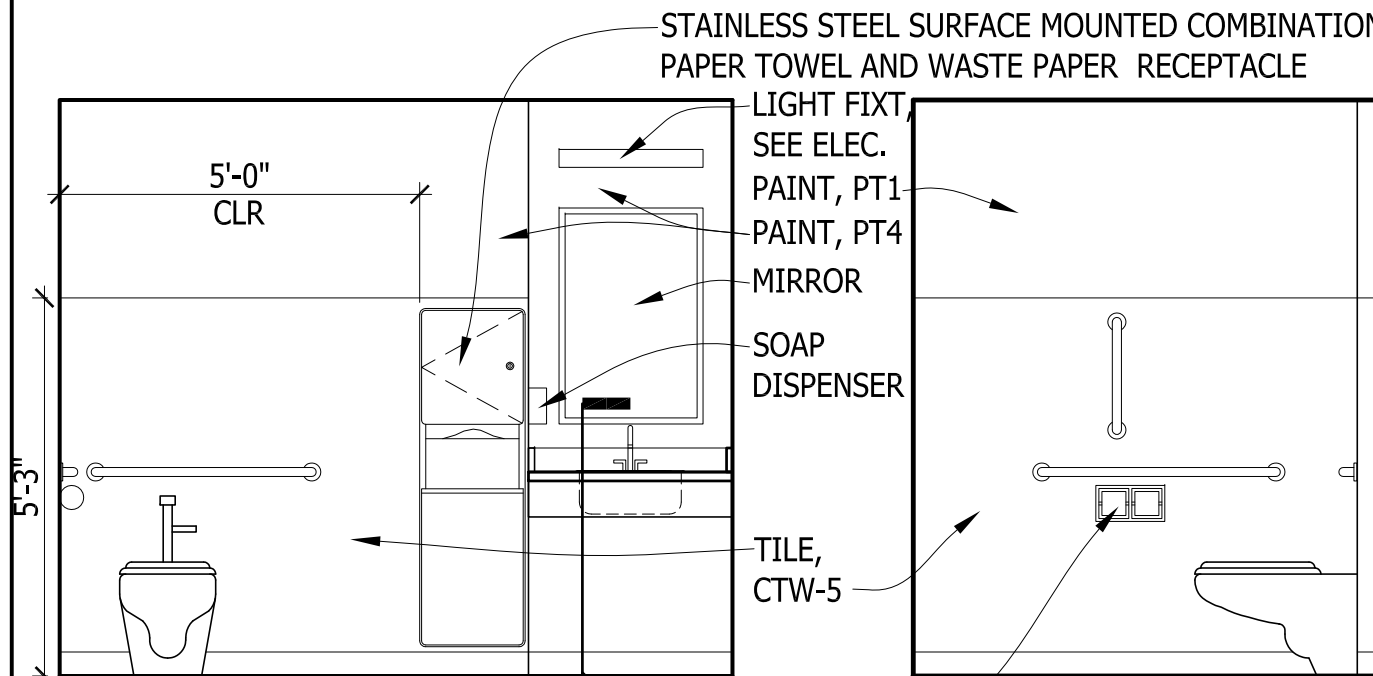


18015 IE01

COAT CLOSET ELEV AND SECTION

SCALE: 3/8"=1'-0"
REF'D FROM: A2.00

6

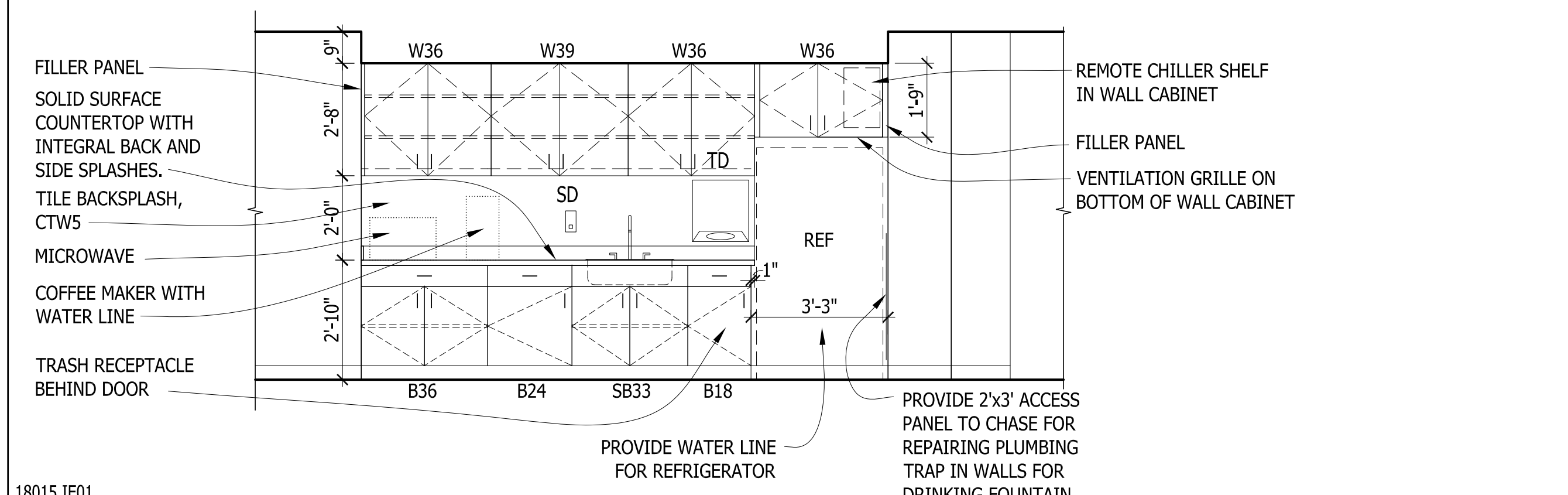


18015 IE01

TOILET 014

SCALE: 3/8"=1'-0"
REF'D FROM: A2.00

5

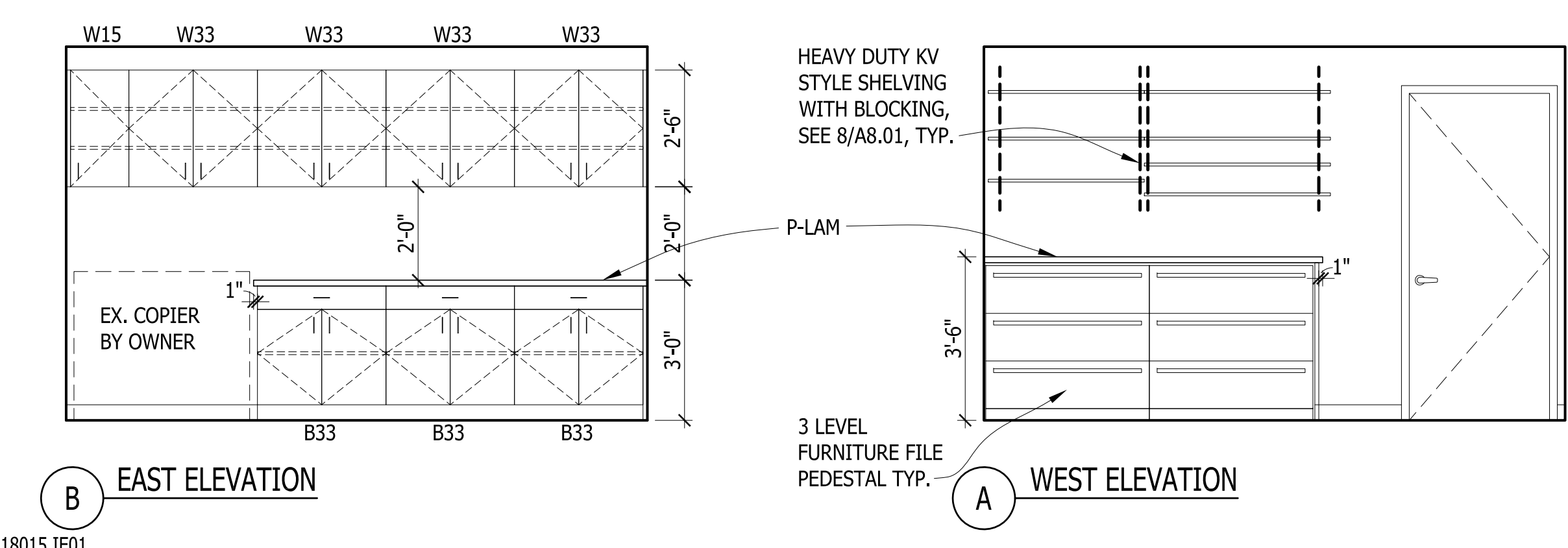


18015 IE01

KITCHENETTE 013

SCALE: 3/8"=1'-0"
REF'D FROM: A2.00

3



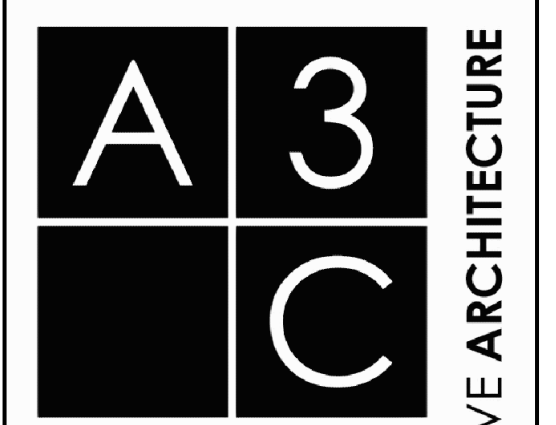
18015 IE01

COPY ROOM 011

SCALE: 3/8"=1'-0"
REF'D FROM: A2.01

1

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SCALE:	
APPROVED BY:	
DRAWN BY:	
DATE:	08/28/2018
PROJECT NUMBER:	
STRUC TEC: T18074 A3C: 18015	
DRAWING NUMBER:	
A5.02	

COLLABORATIVE ARCHITECTURE

GENERAL REFLECTED CEILING PLAN NOTES:

A. COORDINATE NEW AND EXISTING MECHANICAL AND ELECTRICAL COMPONENT QUANTITIES, TYPES, AND SIZES WITH MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS. COORDINATE THE EXACT LOCATION OF MECHANICAL AND ELECTRICAL COMPONENTS LOCATED ABOVE OR WITHIN CEILINGS AS INDICATED ON MECHANICAL AND ELECTRICAL DRAWINGS, BUT NOT SHOWN ON THIS PLAN, WITH THE ARCHITECT. GENERALLY, COMPONENTS SHALL BE CENTERED IN CEILING TILES, UNO.

B. WHERE EXISTING CEILING TILE AND GRID REQUIRE COMPLETION DUE TO PARTITION, CEILING DIFFUSER OR LIGHT FIXTURE REMOVAL, RESTORE CEILING WITH NEW TILE AND GRID COMPONENTS TO MATCH EXISTING ADJACENT CEILING AREAS TO REMAIN.

C. EXISTING FIRE RESISTANCE RATED WALL RATING WERE UNDETERMINED, WHERE EXISTING FIRE RATED WALLS OR CEILINGS ARE ALTERED OR PENETRATED TO INSTALL NEW CONSTRUCTION, PATCH AND SEAL OPENINGS WITH FIRE RATED CONSTRUCTION TO MAINTAIN INTEGRITY OF EXISTING WALL OR CEILING FIRE RATING.

00000-RC-LEG	GENERAL NOTES	NO SCALE	11
	REF'D FROM:	TS	

REFLECTED CEILING PLAN KEYED NOTES:

① LIGHT COVE SOFFIT. SEE DETAIL 14 ON SHEET A8.01 AND ELEVATIONS ON SHEET A5.01 FOR ADDITIONAL INFORMATION

00000-RC-LEG	KEYED NOTES	NO SCALE	7
	REF'D FROM:	TS	

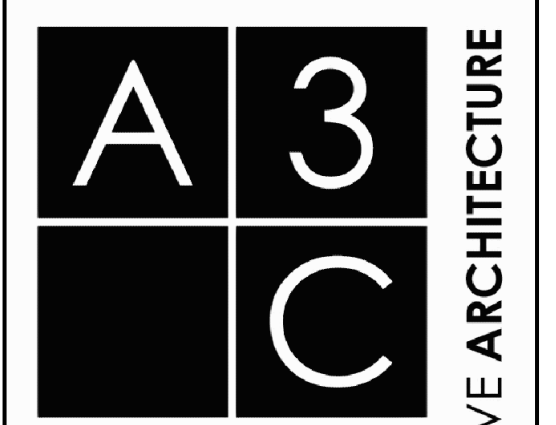
NAME NO.	EXISTING ROOM TAG	⊙	6" RECESSED COMPACT LT. FIXTURE	⊗	(E) SUPPLY DIFFUSER
NAME NO.	ROOM TAG	▨	NEW 2'X2' INDIRECT LT. FIXTURE	⊗	NEW SUPPLY DIFFUSER
	EXISTING CEILING GRID	▨	NEW 2'X4' INDIRECT LT. FIXTURE	⊗	(E) RETURN GRILLE
	CEILING GRID	▨	NEW 2'X4' INDIRECT LT. FIXTURE	⊗	NEW RETURN GRILLE
	GYP BD CEILING	⊗	EXIT SYMBOL	⊗	NEW EXHAUST REGISTER
	BULKHEAD	⊗	SPRINKLER	— 1-FB —	1-HR FIRE BARRIER
	CEILING HEIGHT TAG	⊗	SMOKE DETECTOR	— 2-FB —	2-HR FIRE BARRIER

00000-RC-LEG	REFL. CLG PLAN LEGEND	SCALE: 1/8"=1'-0"	3
	REF'D FROM:	TS	



18015 RC01	GROUND FLOOR REFLECTED CEILING PLAN	SCALE: 1/8"=1'-0"	1
	REF'D FROM:	TS	

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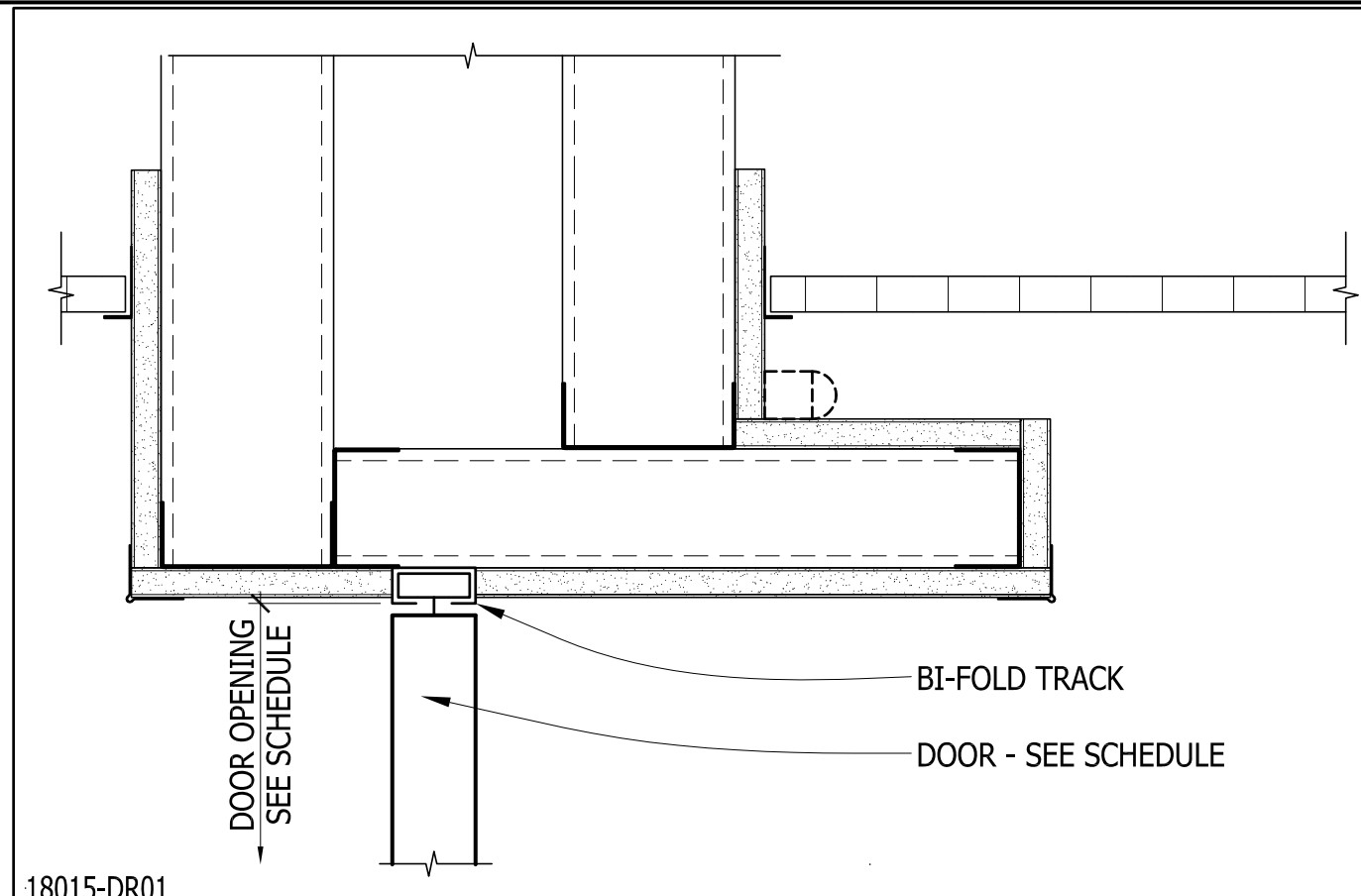


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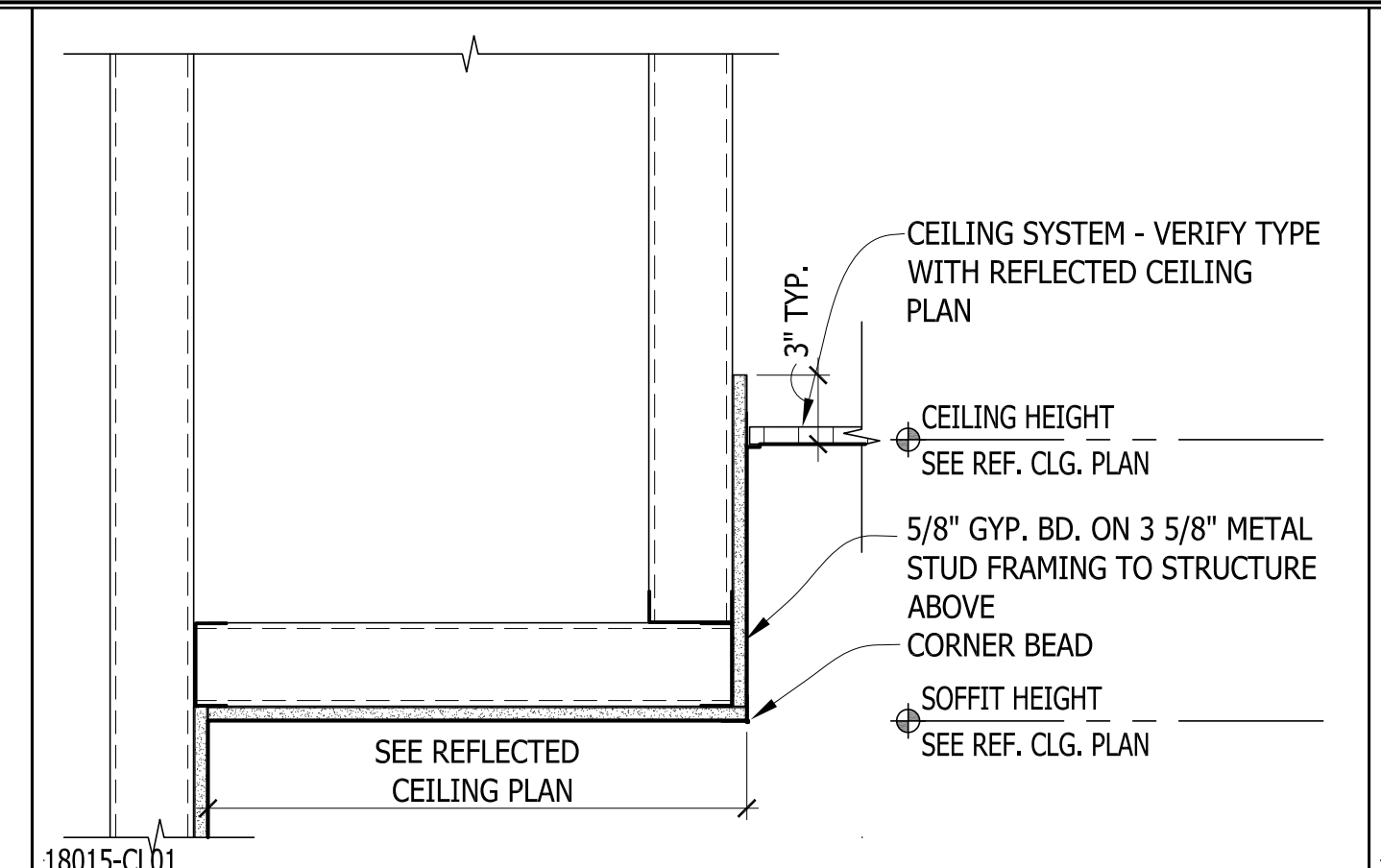
Ground Floor Reflected Ceiling Plans

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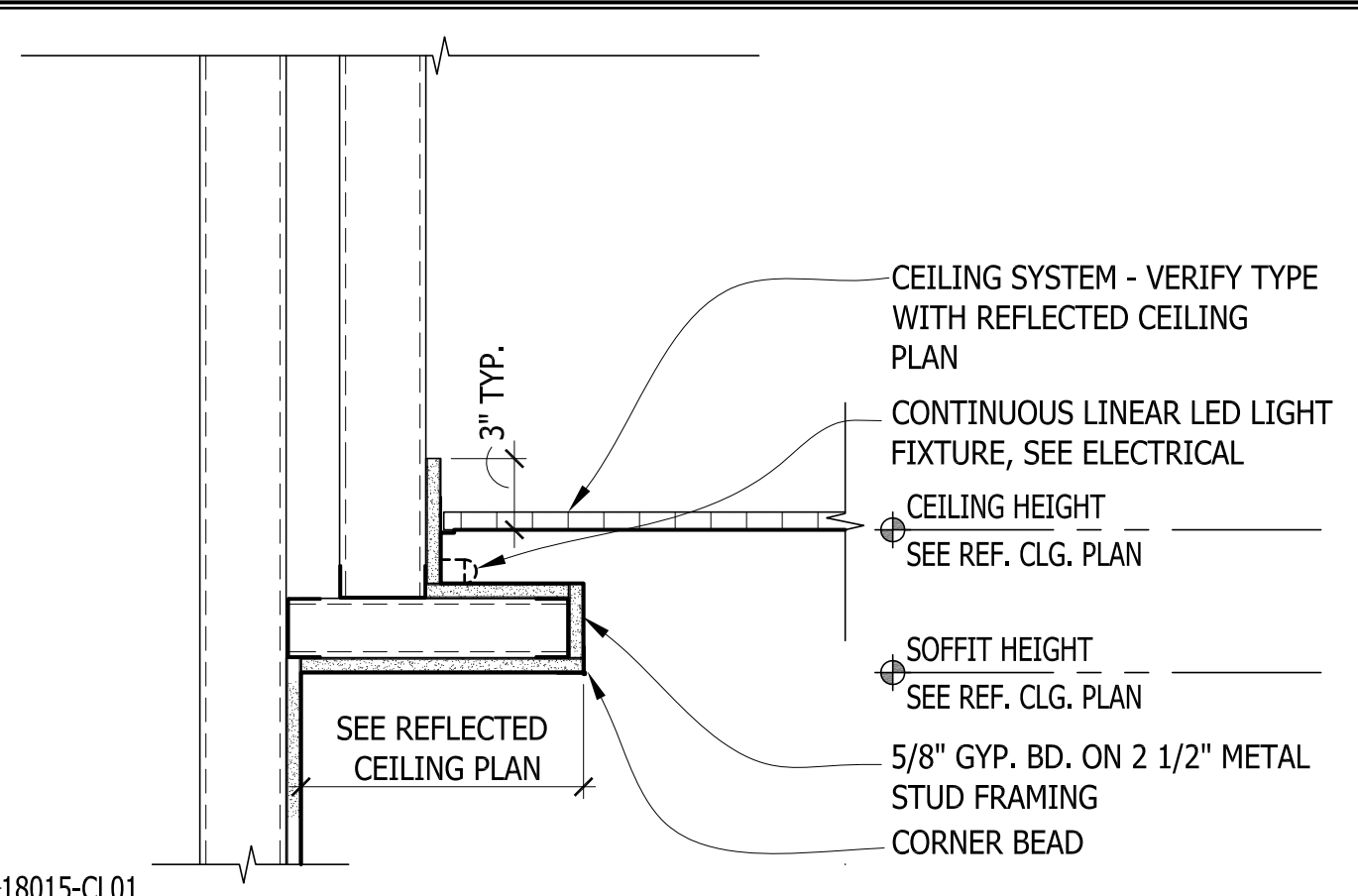
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APPROVED BY:	---
DRAWN BY:	---
DATE:	08/28/2018
PROJECT NUMBER:	STRUC TEC: T18074 A3C: 18015
DRAWING NUMBER:	A6.01



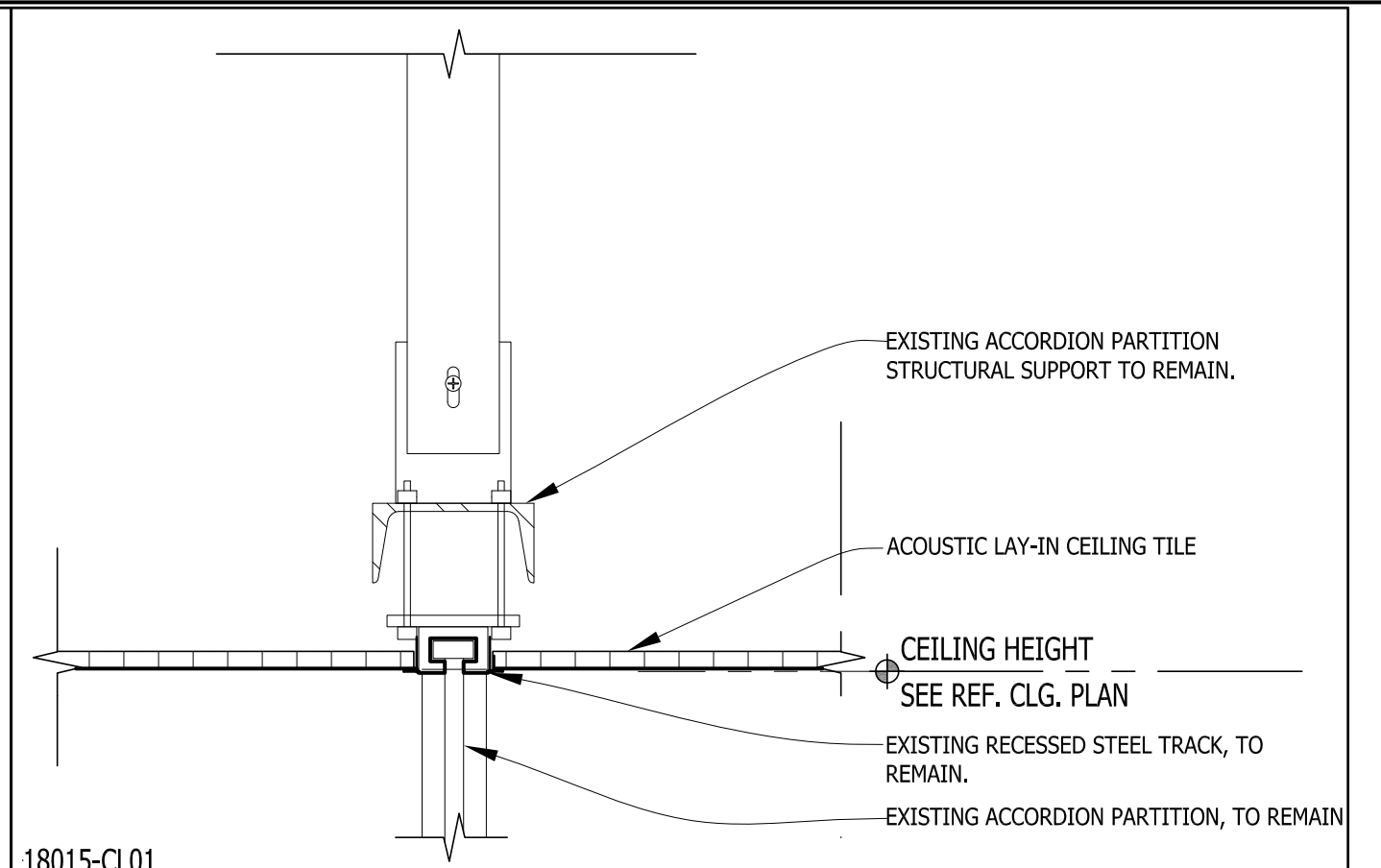
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REF'D FROM: 9/A2.00 **16**



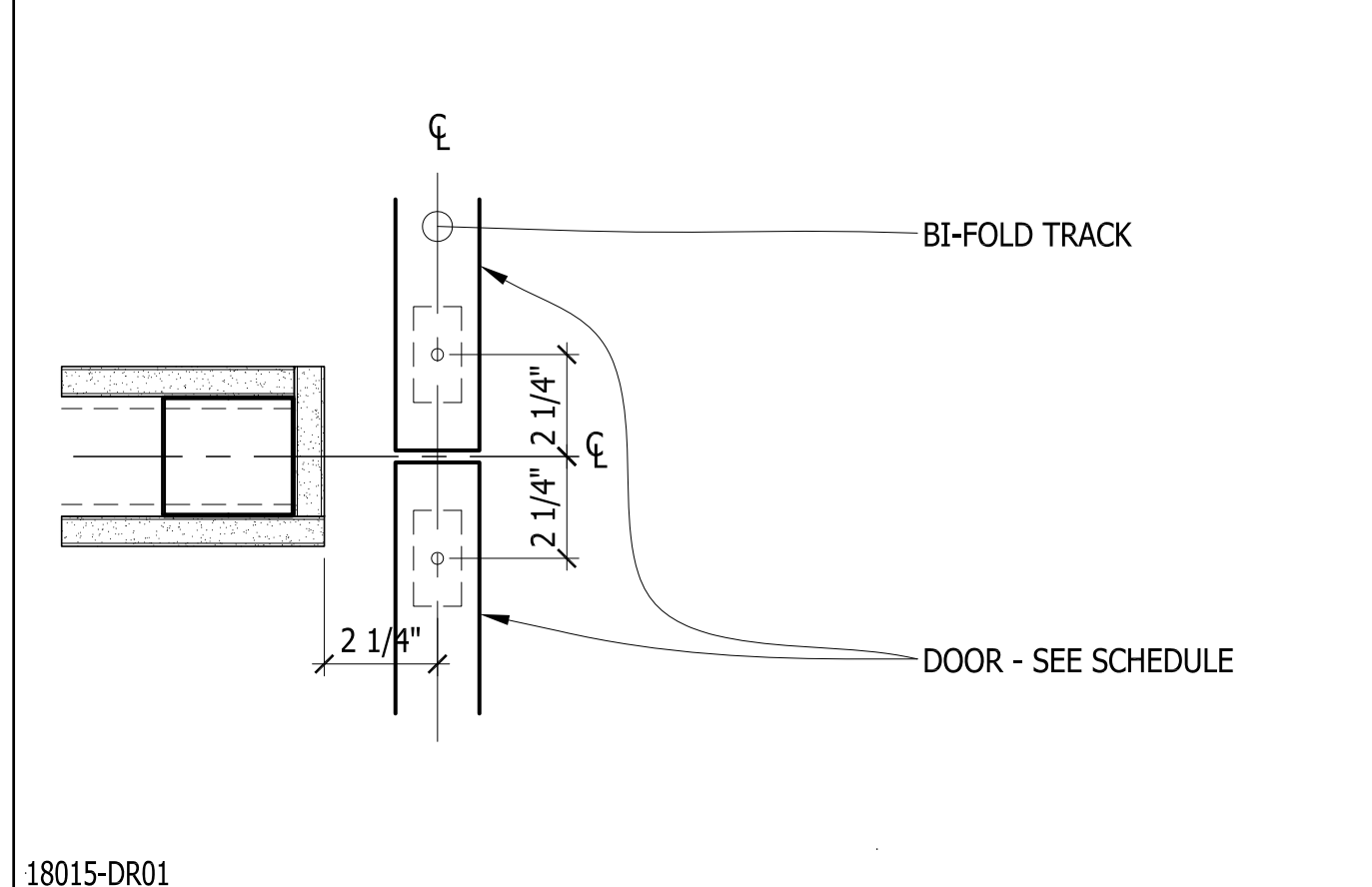
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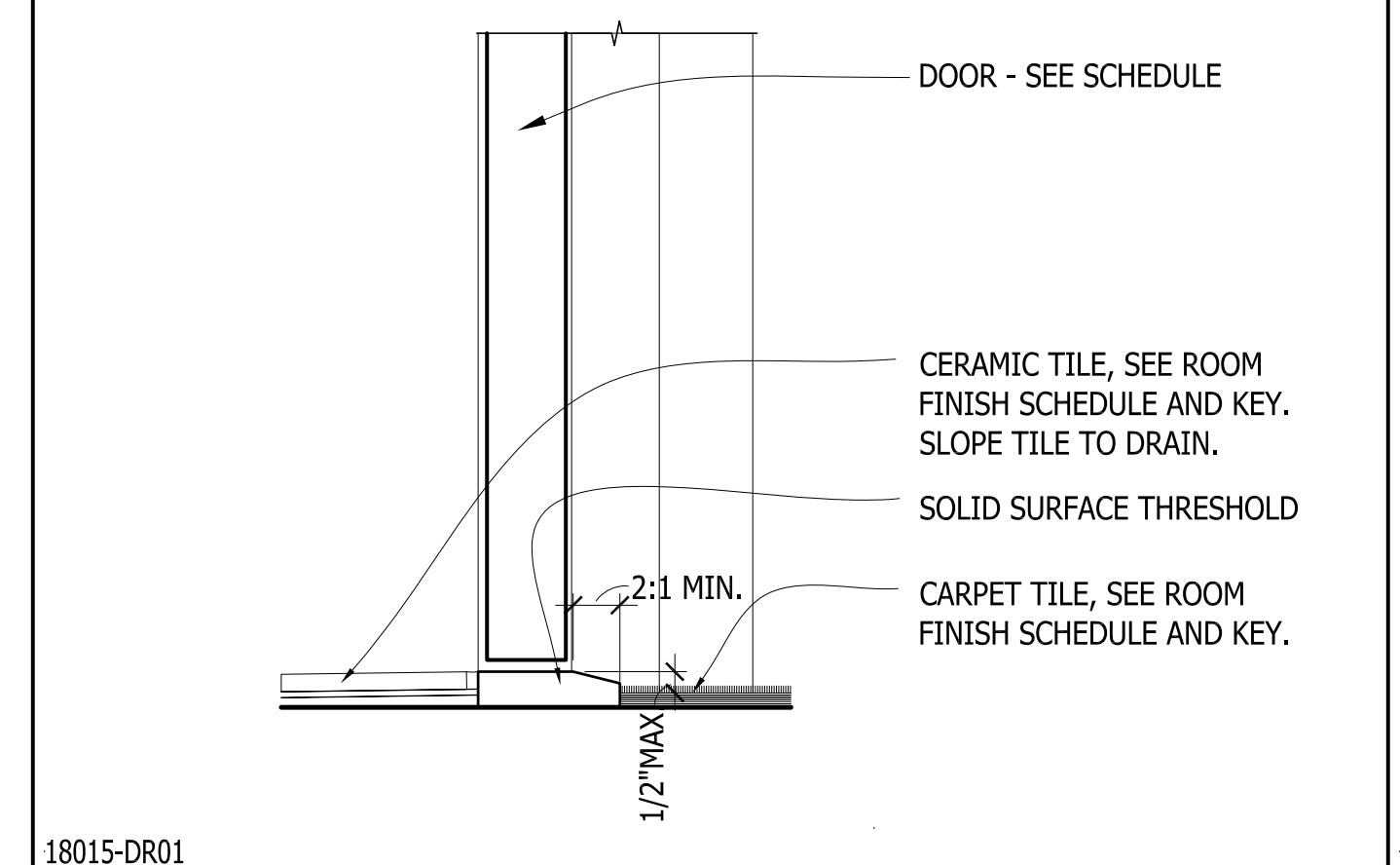
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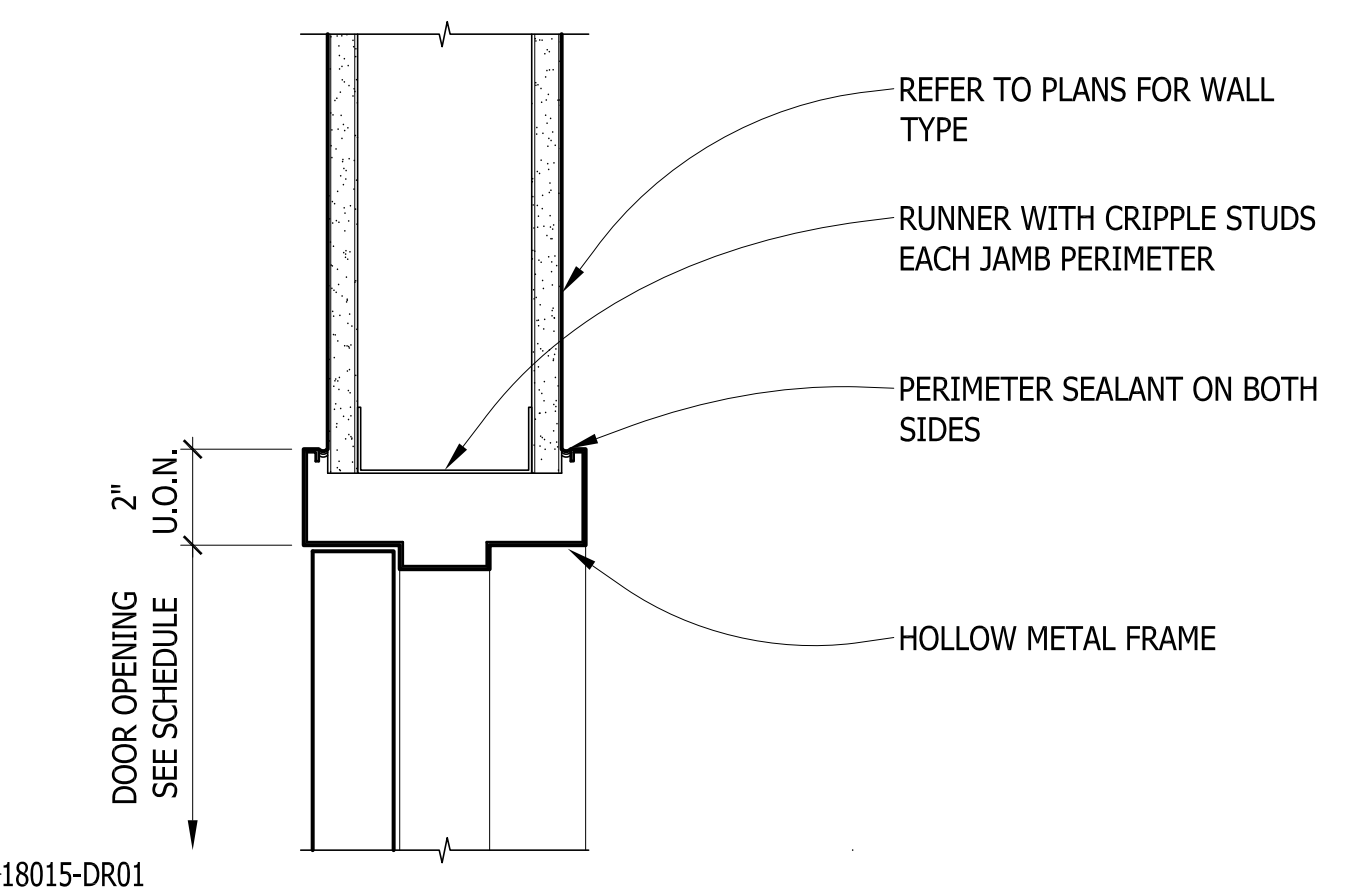
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ACCORDIAN PART. DETAIL
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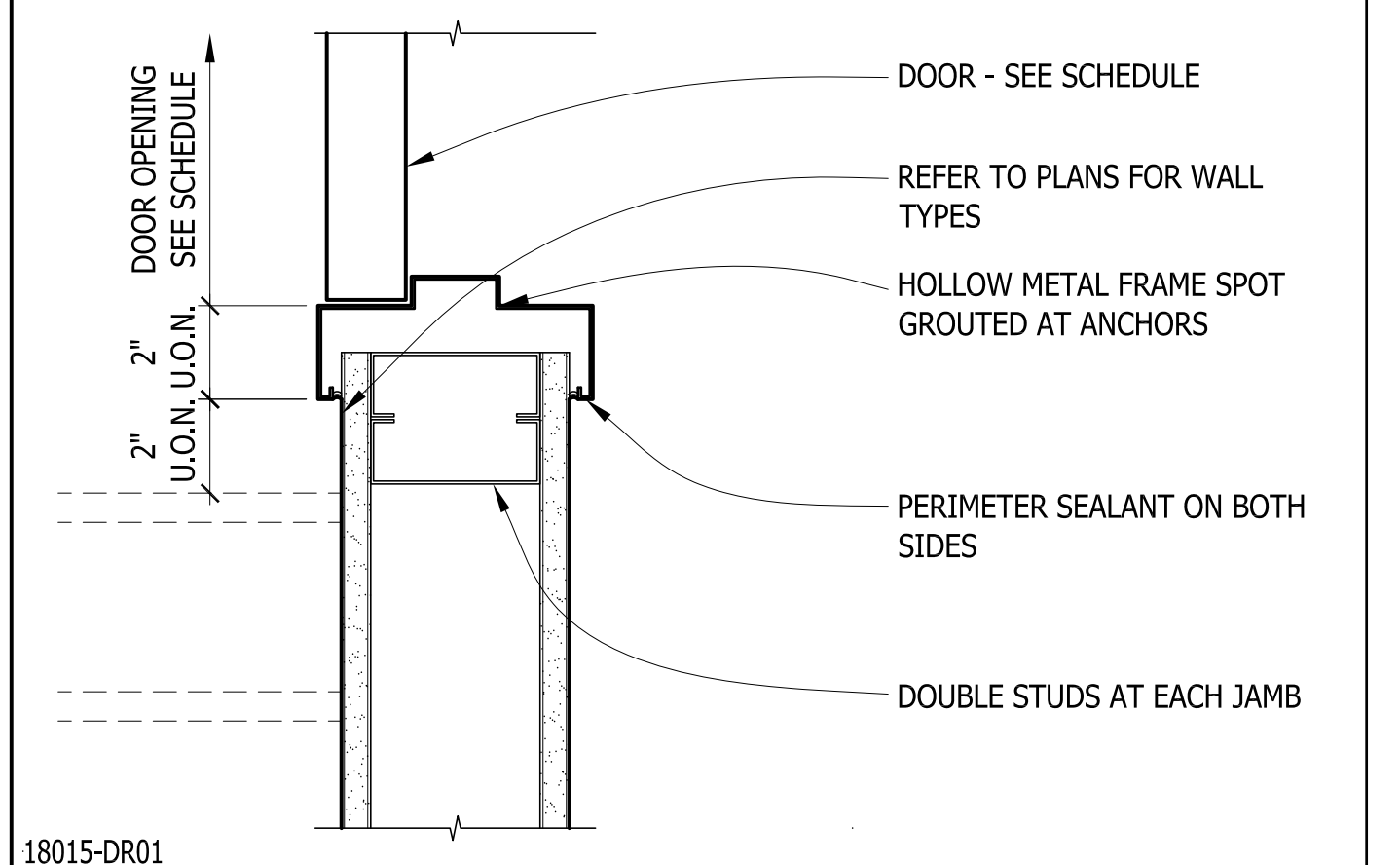
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REF'D FROM: 9/A2.00 **12**



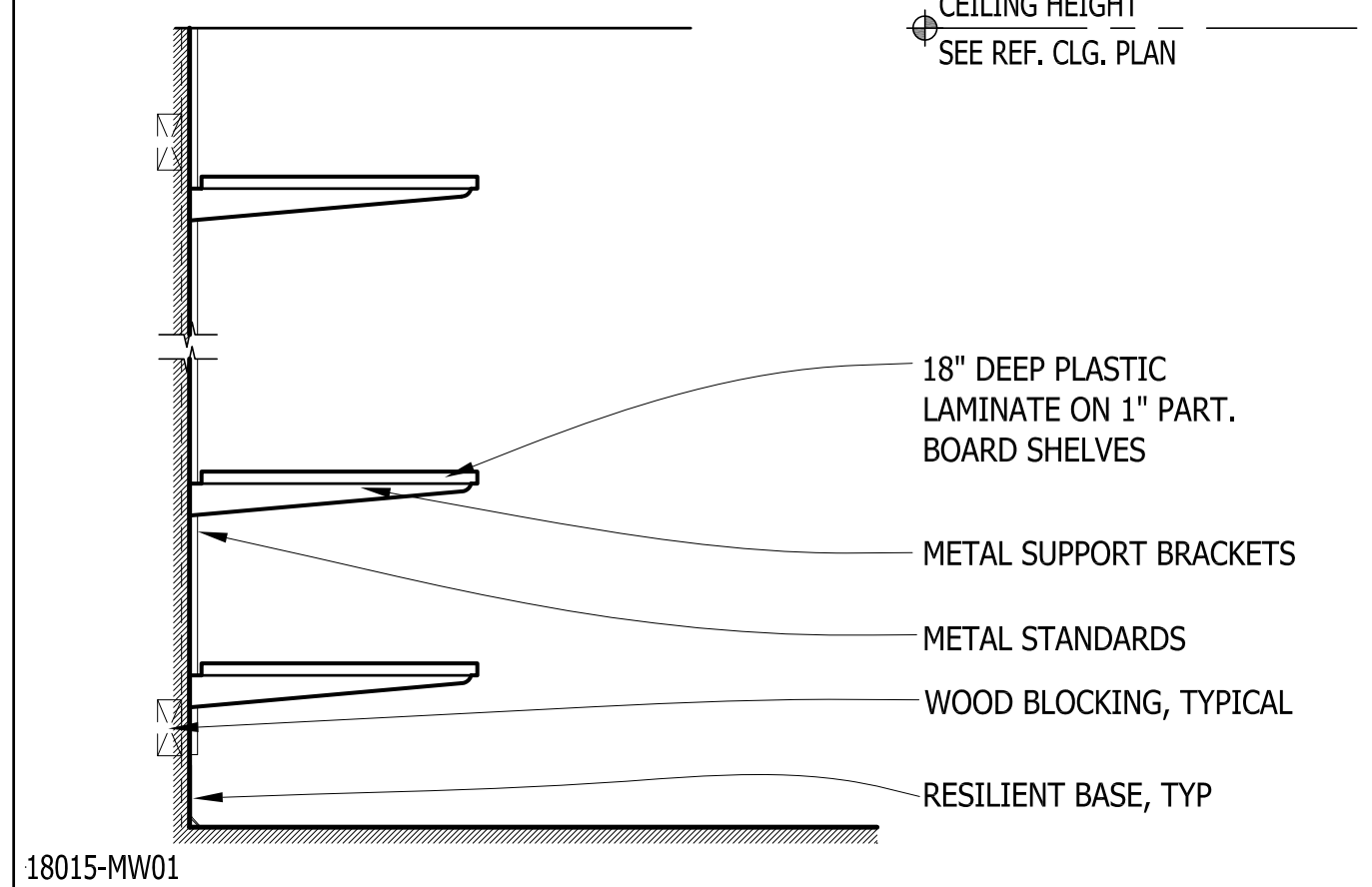
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REF'D FROM: 9/A2.00 **11**



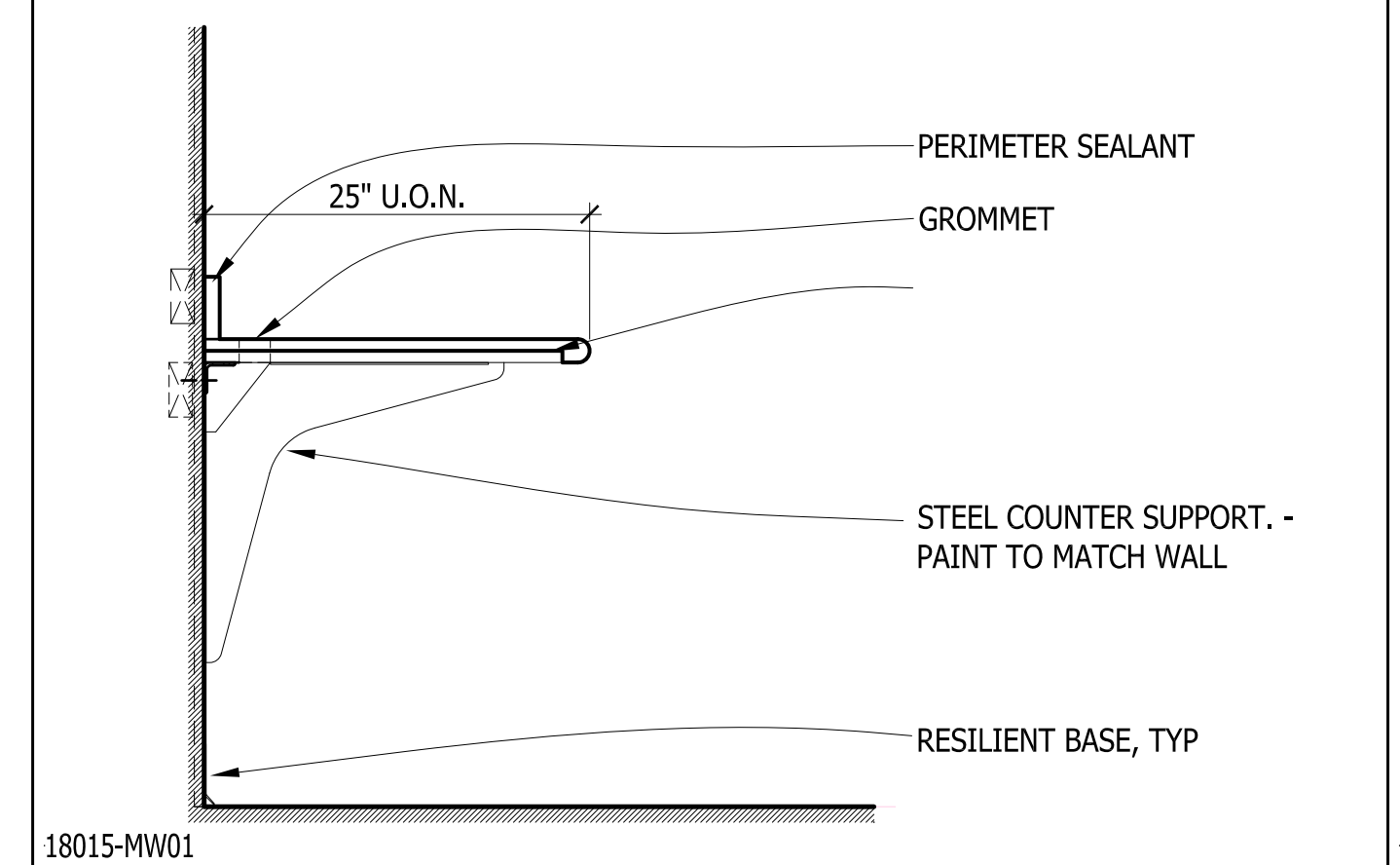
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REF'D FROM: 9/A2.00 **10**



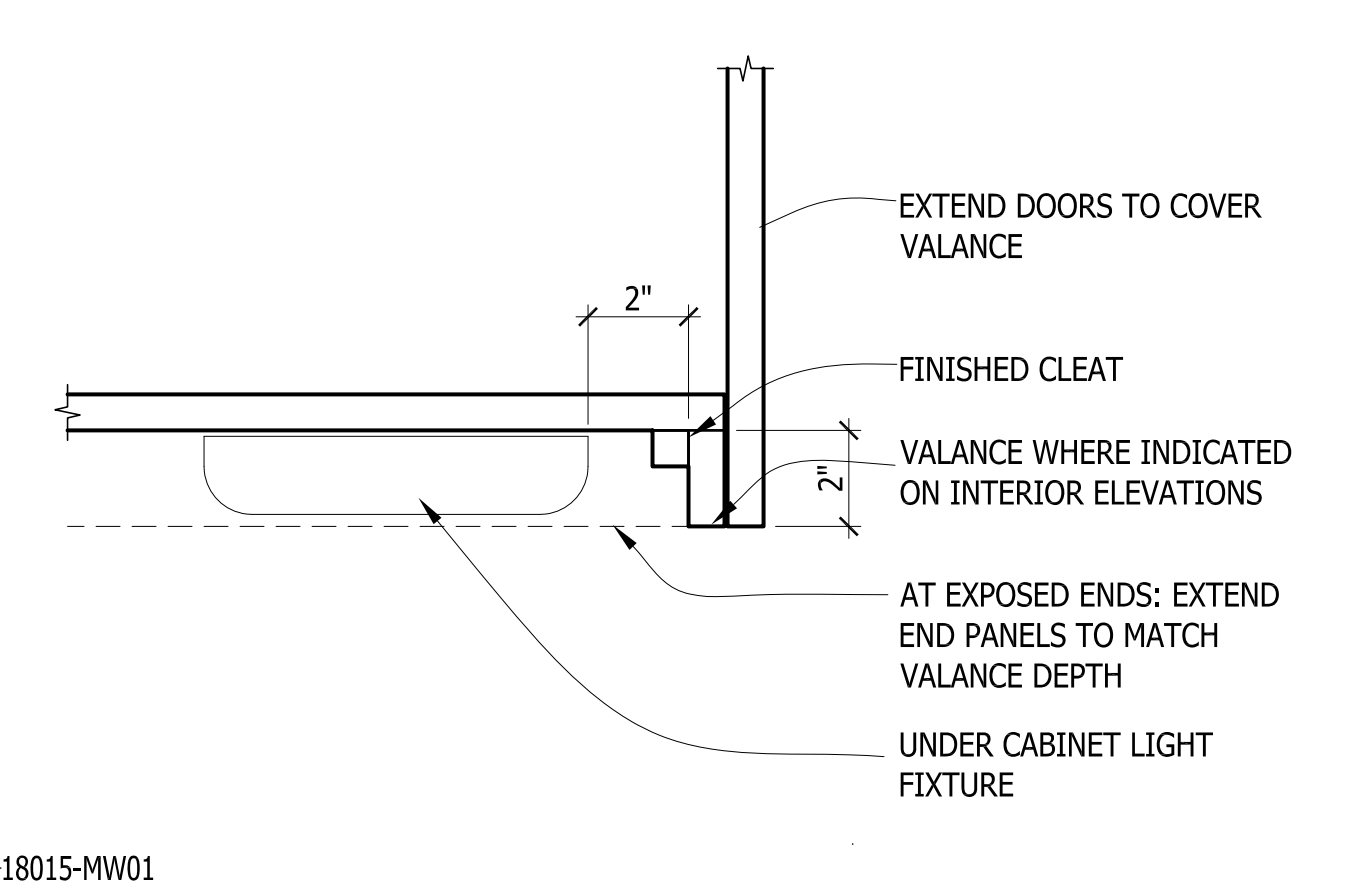
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REF'D FROM: 9/A2.00 **9**



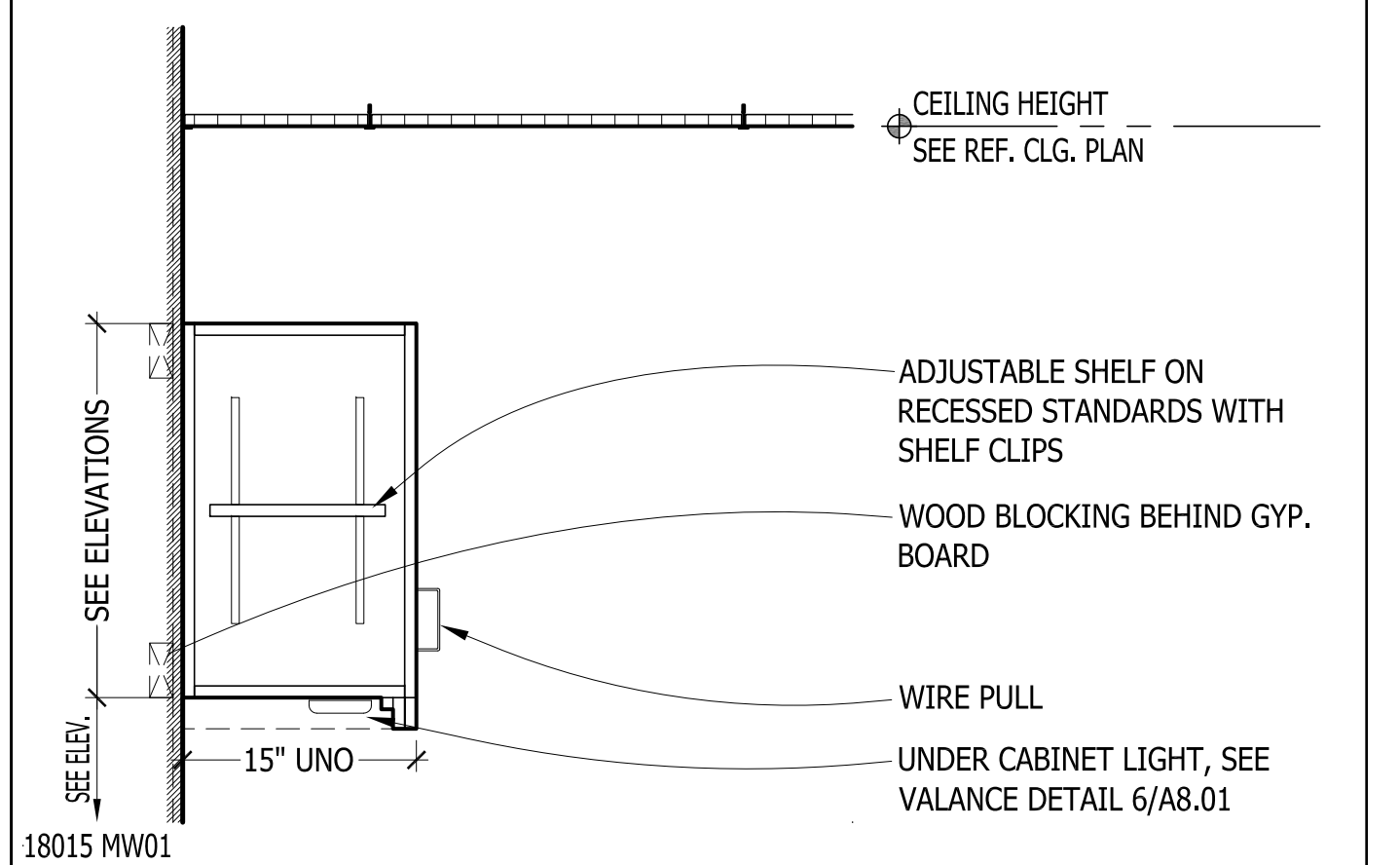
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REF'D FROM: A5.01 **8**



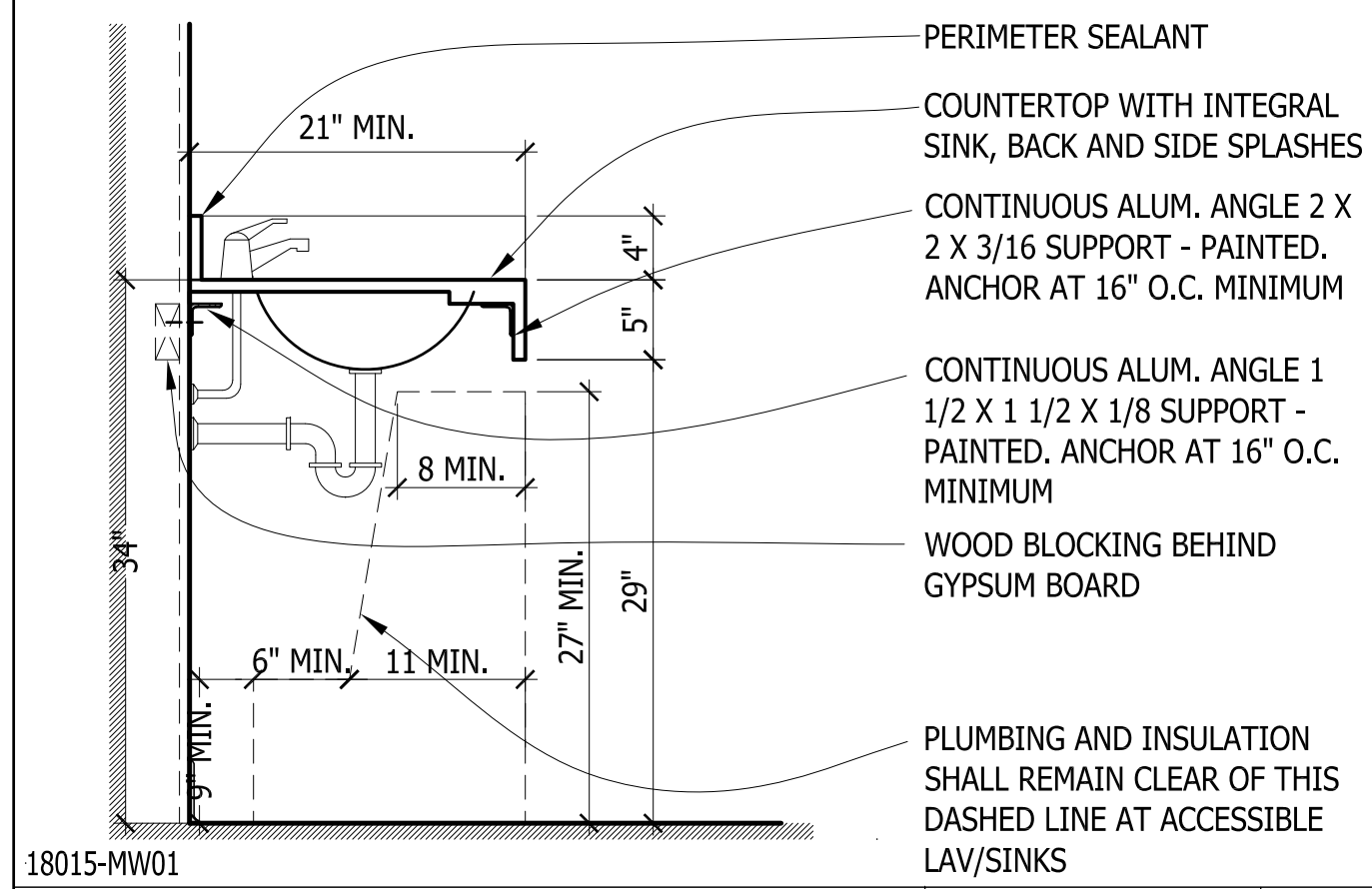
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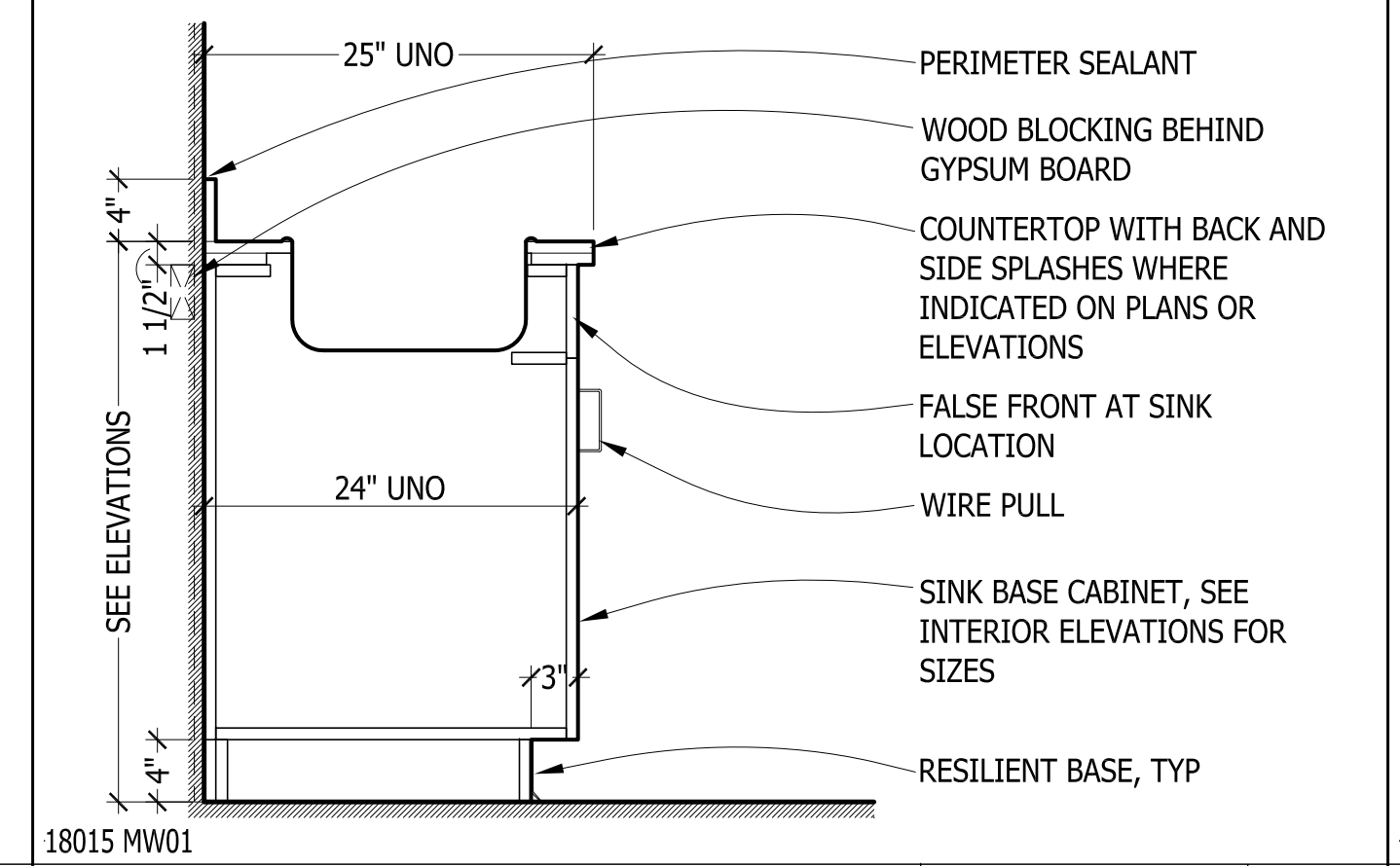
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REF'D FROM: TS **6**



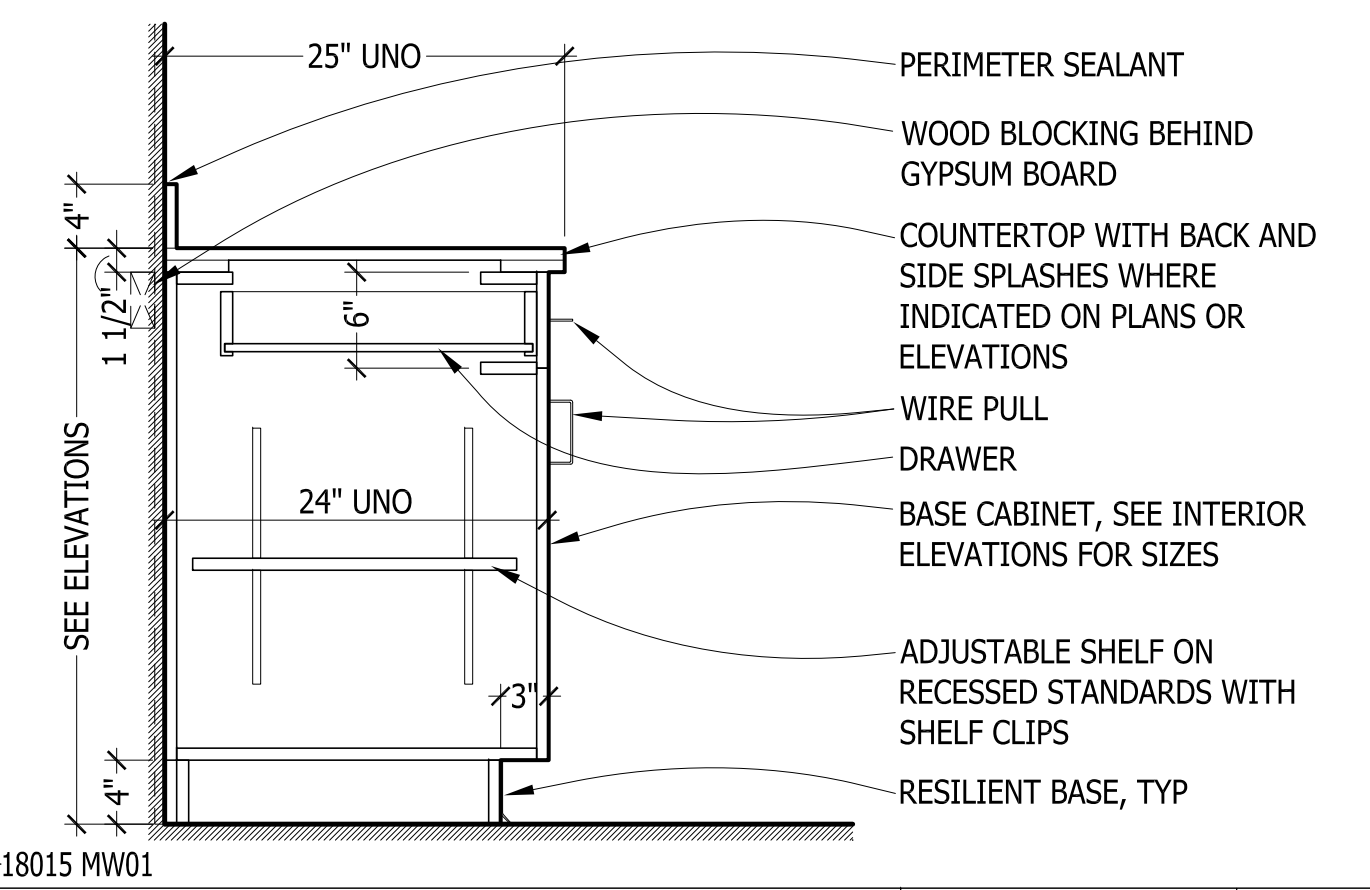
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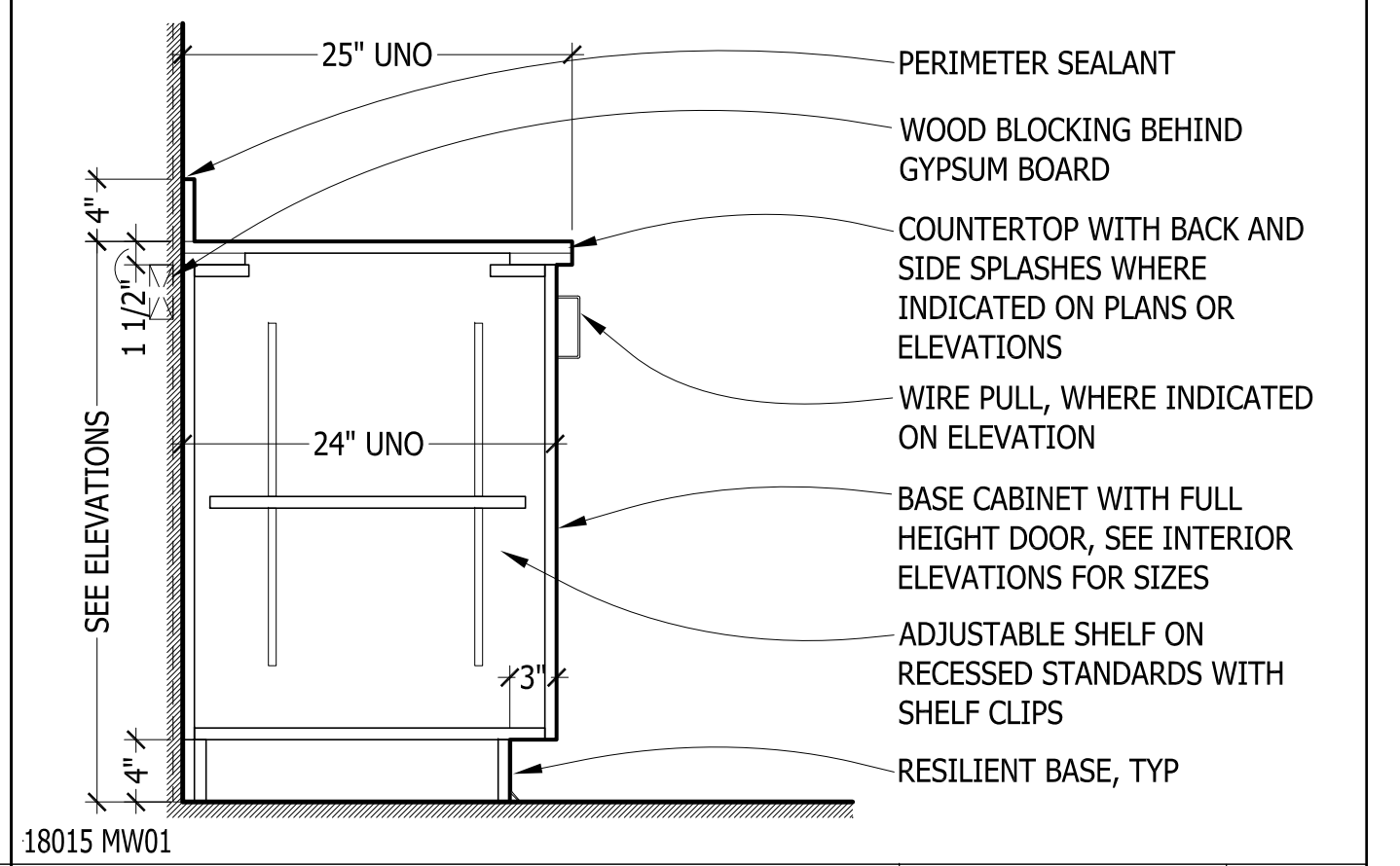
18015-MW01
LAV / SINK COUNTER
SCALE: 1"=1'-0"
REF'D FROM: A5.02 **4**



18015 MW01
BASE CABINET (SB)
SCALE: 1"=1'-0"
REF'D FROM: A5.02 **3**

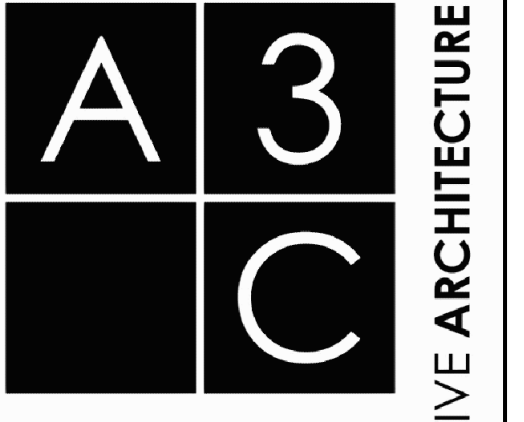


18015 MW01
BASE CABINET (DB)
SCALE: 1"=1'-0"
REF'D FROM: A5.02 **2**



18015 MW01
BASE CABINET (B)
SCALE: 1"=1'-0"
REF'D FROM: A5.01 **1**

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REVISIONS / ADDENDA:
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SCALE:
APPROVED BY:
DRAWN BY:
DATE: Bid/Permit 08/28/2018
PROJECT NUMBER: STRUC TEC: T18074 A3C: 18015
DRAWING NUMBER: A8.01

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED ON THIS PROJECT

AC	AIR CONDITIONING UNIT	I.D.	INSIDE DIAMETER
ACCU-#	AIR COOLED CONDENSING UNIT	INSUL.	INSULATION/INSULATE
ACU-#	AIR CONDITIONING UNIT	I.V.	INTAKE VENT
A.F.F.	ABOVE FINISHED FLOOR	INTR.	INTERIOR
A.F.M.S.	AIR FLOW MEASURING STATION	I.E.	INVERT ELEVATION
AHU	AIR HANDLING UNIT		
A.L.	ACOUSTIC DUCT LINER	KIT.	KITCHEN
ALT.	ALTERNATIVE	KW	KILOWATT
AMB.	AMBIENT		
A.P.	ACCESS PANEL	L	LENGTH/LONG
APPROX.	APPROXIMATELY	L-#LAV-#	LAVATORY
A.R.	ACID RESISTANT	LVR.	LOUVER
ARCH.	ARCHITECT(URAL)		
A.V.	AIR RELIEF VALVE	M	METER
A.T.	AIR TRANSFER	MAX.	MAXIMUM
A.T.R.	AIR TEMPERATURE RISE	MECH.	MECHANICAL
A.T.V.	AIR TURNING VANES	MFR.	MANUFACTURER
AUTO	AUTOMATIC	M.H.	MANHOLE
A.S.R.	AUTOMATIC SPRINKLER RISER	MIN.	MINIMUM
		MISC.	MISCELLANEOUS
		MTD.	MOUNTED
B-#	BOILER	N.I.C.	NOT IN CONTRACT
B.D.	BAROMETRIC DAMPER	NO.#	NUMBER
B.D.D.	BACK DRAFT DAMPER	NOM.	NOMINAL
B.H.P.	BREAK HORSE POWER	N.T.S.	NOT TO SCALE
BLDG.	BUILDING		
B.O.D.	BOTTOM OF DUCT	O.A.	OUTSIDE AIR
BOT.	BOTTOM	O.C.	ON CENTER
CON-#	CONNECTOR	O.E.D.	OPEN ENDED DUCT
CAB.	CABINET	OPNG.	OPENING
CD-#	CEILING DIFFUSER	ORD-#	OVERFLOW ROOF DRAIN
C.I.A.	COMBUSTION AIR INTAKE	O.S.D.	OPEN SITE DRAIN
C.F.M.	CUBIC FEET PER MINUTE		
CL	CENTERLINE	P.E.	PNEUMATIC/ELECTRIC
CLG.	CEILING	PREFAB.	PREFABRICATED
C.O.	CLEAN OUT	P.R.V.	PRESSURE REDUCING VALVE
COL.	COLUMN	P.S.F.	POUNDS PER SQUARE FOOT
CONC.	CONCRETE	P.S.I.	POUNDS PER SQUARE INCH
COND.	CONDENSER(ATE)	P.T.A.C-#	PACKAGE TERMINAL AIR
CONSTR.	CONSTRUCTION		CONDITIONING UNIT
CONTR.	CONTRACTOR	P.V.C.	POLYVINYL CHLORIDE
CPRSR.	COMPRESSOR		
CT-#	COOLING TOWER	R/RAD.	RADIUS
CUH-#	CABINET UNIT HEATER	R.A.	RETURN AIR
C.W.	COLD WATER (DOMESTIC)	R-#IRG-#	RETURN AIR GRILLE
CU-#	CONDENSING UNIT	RD-#	ROOF DRAIN
		REG.	REGISTER
D.	DEPTH/DEEP	REQD.	REQUIRED
D.B.	DRY BULB TEMPERATURE	RM.	ROOM
DH-#	DUCT HEATER	RP-#	RADIANT PANEL
DIAMØ	DIAMETER	R.P.M.	REVOLUTIONS PER MINUTE
DS-#	DUCTLESS SPLIT	R.S.	REFRIGERANT SUCTION
DW.	DRAWING	R.S.D.	ROUND SUPPLY DIFFUSER
EF-#	EXHAUST FAN	SCHED.	SCHEDULE
EFF.	EFFICIENCY	S-#SG-#	SUPPLY AIR GRILLE
E-#EG-#	EXHAUST GRILLE	SHT.	SHEET
EL.	ELEVATION	SIM.	SIMILAR
ELEC.	ELECTRIC(AL)	S.P.	STATIC PRESSURE
ELEV.	ELEVATOR	SPEC(S)	SPECIFICATION(S)
EMER.	EMERGENCY	STD.	STANDARD
E.P.	ELECTRIC/PNEUMATIC	S.A.	SUPPLY AIR
EQUIP.	EQUIPMENT		
EXH.	EXHAUST	T.A.D.	TRANSFER AIR DUCT
EXIST.	EXISTING	TG-#	TRANSFER GRILLE
EXP.	EXPANSION	T.C.	TEMPERATURE CONTROL
EXT.	EXTERIOR	TEMP.	TEMPERATURE
(E)	EXISTING	TVX	THERMAL EXPANSION VALVE
E.A.	EXHAUST AIR	TYP.	TYPICAL
FCU-#	FAN COIL UNIT	UH-#	UNIT HEATER
FISD	COMBINATION FIRE & SMOKE DAMPER	U.O.N.	UNLESS OTHERWISE NOTED
FD-#	FLOOR DRAIN	UV-#	UNIT VENTILATOR
F-DMPR	FIRE DAMPER		
F.F.	FINISHED FLOOR	V	VENT
F.A.	FRESH AIR	VA.	VALVE
F.P.	FIRE PROTECTION	VAC.	VACUUM
F.P.M.	FEET PER MINUTE	VAV	VARIABLE AIR VOLUME
FS-#	FLOOR SINK	V.B.	VACUUM BREAKER
F-#FUR-#	FURNACE	V.D.	VOLUME DAMPER
		VEL.	VELOCITY
G	GAS (NATURAL)	V.I.F.	VERIFY IN FIELD
GA.	GAUGE	V.T.R.	VENT-THRU-ROOF
GAL.	GALLON	VVB	VARIABLE VOLUME BOX
G.M.	GALLONS PER MINUTE		
H	HEIGHT/HIGH	W	WIDE/WIDTH
H.P.	HORSEPOWER	W/	WITH
H.R.U.	HEAT RECOVERY UNIT	W/O	WITHOUT
HTR.	HEATER	W.B.	WET BULB
HVAC-#	HEATING/VENTILATING/AIR	WC-#	WATER CLOSET
	CONDITIONING UNIT	W.C.O.	WALL CLEAN OUT
		WH-#	WATER HEATER
H.W.	HOT WATER (DOMESTIC)		
H.W.R.	HOT WATER RETURN (DOMESTIC)		

HVAC SYMBOLS

NOTE: ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT

SYMBOL	DESCRIPTION
	RETURN AIR GRILLE
	RETURN AIR GRILLE WITH SOUND BOOT
	SUPPLY AIR DIFFUSER
	ACOUSTIC TRANSFER AIR DUCT
	HORIZONTAL FIRE DAMPER
	VERTICAL FIRE DAMPER
	VOLUME DAMPER
	VERTICAL SMOKE DAMPER
	CARBON DIOXIDE SENSOR
	THERMOSTAT OR SENSOR
	HUMIDISTAT
	CONNECT NEW TO EXISTING
SYMBOL	DESCRIPTION
	SUPPLY AIR ELBOW UP DIMENSION DESCRIPTION: 1ST FIGURE = SIDE SHOWN 2ND FIGURE = SIDE NOT SHOWN ALL SIZES IN INCHES
	SUPPLY AIR ELBOW DOWN
	EXHAUST/RETURN AIR ELBOW UP
	EXHAUST/RETURN AIR ELBOW DOWN
	DOUBLE SIDE TRANSITION TRANSITION SLOPE SPECIFICATION: MINIMUM SLOPE = 15° MAXIMUM SLOPE = 45° ALL SIZES IN INCHES
	SINGLE SIDE TRANSITION
	TOP TRANSITION (SLOPE ON TOP)
	RECTANGULAR TO ROUND TRANSITION
	ELBOW UP DIMENSION DESCRIPTION: 14"Ø = ROUND DUCT 24"x12" FO = FLAT OVAL DUCT
	ELBOW DOWN
	ELBOW - RADIUS (R) = 1.5 TIMES DIAMETER OF DUCT

PLUMBING SYMBOLS

NOTE: ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT

SYMBOL	DESCRIPTION
	GATE VALVE
	GLOBE VALVE
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	BALANCING VALVE
	BALANCING VALVE WITH TEST PORTS
	PLUG VALVE
	UNION
	PIPE TURNED UP
	PIPE TURNED DOWN
	PIPE OUT TOP
	PIPE OUT BOTTOM
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER PIPING
	DOMESTIC HOT WATER RETURN PIPING
	VENT PIPING
	FIRE PROTECTION PIPING
	NATURAL GAS PIPING
	RAIN CONDUCTOR PIPING
	SANITARY PIPING
	STORM PIPING
	CONDENSER WATER SUPPLY PIPING
	CONDENSER WATER RETURN PIPING
	DOMESTIC 110° HOT WATER PIPING
	DOMESTIC 140° HOT WATER PIPING
	PUMPED DISCHARGE PIPING
	HOT WATER HEATING SUPPLY PIPING
	HOT WATER HEATING RETURN PIPING
	CHILLED WATER SUPPLY PIPING
	CHILLED WATER RETURN PIPING
	DEIONIZED WATER PIPING
	COMPRESSED AIR PIPING
	STEAM PIPING
	CONDENSATE PIPING
	TEMPERED WATER PIPING
	REMOVE / DEMOLISH

NOTES (APPLICABLE AS REQUIRED)

PLUMBING GENERAL NOTES:

- SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL NEW PLUMBING FIXTURES.
- ALL PLUMBING RELATED CORING THROUGH FLOORS SHALL BE BY PLUMBING CONTRACTOR.
- COORDINATE ALL NEW LOCATIONS, SIZES AND ELEVATIONS OF SLEEVES THROUGH WALLS SLABS AND FOUNDATIONS WITH STRUCTURAL DRAWINGS AND EXISTING FIELD CONDITIONS.
- COORDINATE ALL PIPE ROUTING WITH SITE CONDITIONS, EQUIPMENT MANUFACTURER RECOMMENDATIONS AND ALL OTHER TRADES TO AVOID INTERFERENCES. PROVIDE ACCESS AROUND ALL NEW EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS.
- ALL OVERHEAD DOMESTIC WATER PIPING SHALL BE INSULATED AND LABELED IN ACCORDANCE WITH THE SPECIFICATION REQUIREMENTS.
- ALL PIPING SHALL BE CONCEALED IN WALLS, CEILING SPACES OR ARCHITECTURAL SOFFITS.
- CONTRACTOR SHALL MAINTAIN ADEQUATE CLEARANCES (PER N.E.C.) ABOVE AND AROUND ANY NEW ELECTRICAL PANELS, EQUIPMENT AND TRANSFORMERS WHEN ROUTING OVERHEAD DOMESTIC WATER AND STORM PIPING.
- FAUCETS AND PLUMBING FIXTURES SHALL BE OF WATER CONSERVATION TYPE AND COMPLY WITH THE STATE OF MICHIGAN ENERGY STANDARDS.
- RUN ALL BELOW FLOOR SANITARY PIPING LARGER THAN 2" AT 1/8" PER FOOT MINIMUM PITCH UNLESS NOTED OTHERWISE. SANITARY PIPING LESS THAN 2" SHALL BE PITCHED AT 1/4" PER FOOT MINIMUM, UNLESS NOTED OTHERWISE.

MECHANICAL GENERAL NOTES:

- COORDINATE NEW DUCTWORK WITH BUILDING STRUCTURAL CONDITIONS, EQUIPMENT MANUFACTURER RECOMMENDATIONS AND ALL OTHER TRADES TO AVOID INTERFERENCES.
- PROVIDE ACCESS AROUND ALL NEW EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS.
- ALL MECHANICAL RELATED CORING THROUGH WALLS AND FLOORS SHALL BE BY MECHANICAL CONTRACTOR. SEAL ALL PENETRATIONS THROUGH RATED WALLS AND FLOORS WITH U.L. RATED CAULK SEALANT IN ACCORDANCE WITH THE SPECIFICATION REQUIREMENTS.
- ALL DUCTWORK SHALL BE ROUTED AS HIGH AS POSSIBLE ABOVE CEILING OR IN ARCHITECTURAL SOFFITS, WHERE INDICATED ON DRAWINGS.
- COORDINATE ROUTING WITH ARCHITECTURAL AND STRUCTURAL TRADES TO AVOID INTERFERENCES.
- ALL NEW DUCT SIZES TO DIFFUSERS SHALL MATCH NECK SIZE OF DIFFUSER OR GRILLE.
- COORDINATE EXACT LOCATIONS OF DIFFUSERS AND RETURN GRILLES WITH ARCHITECTURAL AND ELECTRICAL REFLECTED CEILING PLANS AND ARCHITECTURAL INTERIOR ELEVATIONS.
- COORDINATE ALL T-STAT SENSOR HEIGHTS ABOVE FINISHED FLOOR WITH ARCHITECTURAL TRADES.
- BALANCE AIR SYSTEMS TO VALUES INDICATED ON DRAWINGS.
- ALL FLEXIBLE DUCTWORK SHALL BE LIMITED TO 5'-0" MAXIMUM LENGTH FROM HARD DUCT CONNECTION TO ROUND NECK SUPPLY AIR DIFFUSERS. FLEX DUCT APPROVED ABOVE ACCESSIBLE CEILING ONLY.

FIRE PROTECTION NOTES:

- THE FIRE PROTECTION / SPRINKLER SYSTEM IS EXISTING AND IN PLACE. ANY NEW AND / OR RELOCATIONS OF EXISTING HEADS AND PIPING, AS REQUIRED TO ACCOMMODATE THE SPACE LIGHTING AND CEILING REQUIREMENTS, SHALL BE IN ACCORDANCE WITH THE FIRE INSURANCE UNDERWRITERS INCLUDING THE REQUIREMENTS OF THE N.F.P.A. - 13 (WITH RELATED SECTIONS) AND THE LOCAL FIRE MARSHAL (WHEN APPLICABLE).

DEMOLITION SYMBOLS

NOTE: ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT

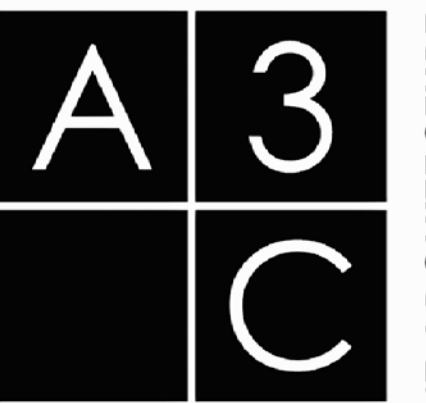
SYMBOL	DESCRIPTION
	EXISTING SERVICE AND/OR EQUIPMENT TO BE REMOVED.
	EXISTING SERVICE AND/OR EQUIPMENT TO REMAIN.
	NEW SERVICE AND/OR EQUIPMENT.
	EXISTING SERVICE TO BE CAPPED
	DEMOLITION LIMIT AND POINT OF NEW CONNECTION.
	NEW CONNECTION TO EXISTING SERVICE AND/OR EQUIPMENT.
(R&R)	REMOVE AND RELOCATE EXISTING EQUIPMENT.
(R)	RELOCATED EQUIPMENT
(E)	EXISTING
(N)	NEW
(CFM)	BALANCE TO INDICATED CFM AIRFLOW

GENERAL DEMOLITION NOTES:

- COORDINATE SHUT-DOWN OF ANY SYSTEM WITH THE BUILDING SERVICES PERSONNEL PRIOR TO SYSTEM SHUT-DOWN.
- REMOVE (INCLUDING DISCONNECTION OF) MECHANICAL SERVICE AS INDICATED AND/OR DESCRIBED ALONG WITH PIPING, HANGERS, SUPPORTS, CONTROLS AND ALL RELATED ACCESSORIES.
- FIELD VERIFY EXACT SIZE AND LOCATION OF ALL EXISTING SERVICES PRIOR TO DEMOLITION.
- WHERE DAMAGE OCCURS DURING DEMOLITION, THE CONTRACTOR SHALL REPAIR AS REQUIRED SO AS TO BE COMPATIBLE WITH EXISTING.
- WHERE DUCT AND/OR PIPE INSULATION HAS BEEN DAMAGED, THE CONTRACTOR SHALL REPAIR AS REQUIRED SO AS TO BE COMPATIBLE WITH EXISTING.
- ALL ITEMS DEMOLISHED SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY, UNLESS NOTED OTHERWISE.
- LIMITS OF DEMOLITION ARE INDICATED ON THE DRAWINGS. SHOULD EXISTING FIELD CONDITIONS REQUIRE MODIFICATIONS OF THESE LIMITS FOR THE PROPER INSTALLATION OF NEW WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUCH MODIFICATIONS.
- CAP AND SEAL AIRTIGHT ALL UNUSED OPENINGS ON THE RETURN AND SUPPLY DUCTWORK.

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REVISIONS / ADDENDA:

BID / PERMIT	11/12/18
-	-
-	-

SCALE:

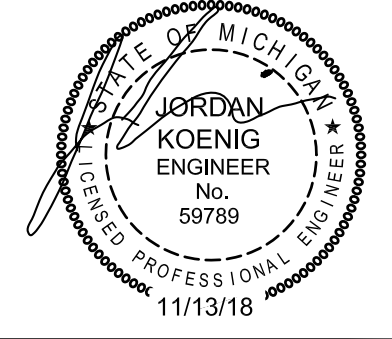
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DRAWN BY: VG

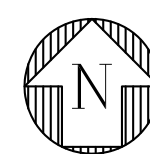
DATE: 11/09/18

PROJECT NUMBER: STRUC TEC: T18074 A3C: 18015

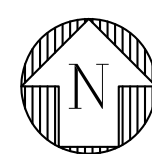
DRAWING NUMBER: **M1.00**



THIS DRAWING IS DIAGRAMMATIC AND SHOULD BE USED TO DETERMINE THE DESIGN INTENT. THE CONTRACTOR SHALL FIELD VERIFY ALL WORK AND SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES IN THE DOCUMENTS BEFORE PROCEEDING. FAILURE TO DO SO WILL RESULT IN THE CONTRACTOR TAKING FULL RESPONSIBILITY AND LIABILITY FOR SAID DISCREPANCIES. NOTICE: THIS DRAWING AND THE DESIGN ARE THE PROPERTY OF MECHANICAL ELECTRICAL ENGINEERING CONSULTANTS, PC AND NO ALTERATIONS AND/OR TRANSFERS OF WORK ARE PERMITTED UNLESS WRITTEN APPROVAL IS GRANTED BY MECHANICAL ELECTRICAL ENGINEERING CONSULTANTS, PC.



GROUND FLOOR DEMO WORK PLAN - PLUMBING
SCALE: 1/8"-1'-0"



GROUND FLOOR NEW WORK PLAN - PLUMBING
SCALE: 1/8"-1'-0"

GENERAL NOTES:

1. DRAWINGS ARE DIAGRAMMATIC. THE MECHANICAL WORK SHALL BE FIELD VERIFIED BEFORE PROCEEDING.
2. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS AND STATE LAWS.
3. REFER TO MECHANICAL SPECIFICATIONS AND DETAILS FOR OTHER REQUIREMENTS.
4. THE CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS SUPPORT STEEL, ETC. FOR THE PROPER INSTALLATION OF ALL MECHANICAL SYSTEMS.
5. ALL ITEMS ON NEW WORK PLAN SHALL BE CONSIDERED NEW UNLESS NOTED.

KEYED NOTES - DEMOLITION

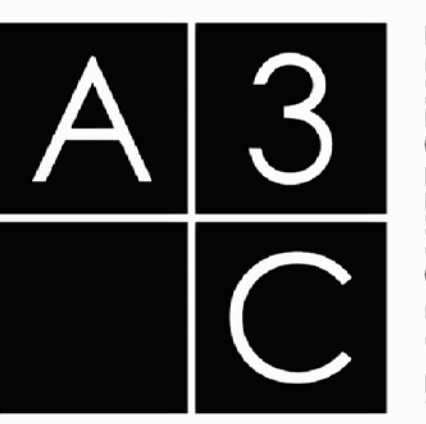
- 1 REMOVE FIXTURES WITH ALL RELATED PIPING, VALVES ETC. AND EXTEND SERVICES TO NEW LOCATION.
- 2 SHADED AREA NOT IN THE SCOPE OF WORK (TYPICAL).

KEYED NOTES - NEW WORK

- 1 PROVIDE NEW FIXTURE, REWORK AND/OR EXTEND WATER, WASTE AND VENT FROM EXISTING LOCATION. SEE SCHEDULE FOR TYPE AND MODEL NUMBER. COORDINATE IN THE FIELD AND ARCHITECTURAL DRAWINGS FOR OTHER REQUIREMENTS IF ANY.
- 2 1/2" NEW WASTE TO EXISTING WASTE SERVICE IN STUD SPACE.
- 3 1/2" VENT, AND 1/2" CW. FROM EXISTING SERVICES TO NEW EWC IN CEILING SPACE.
- 4 SHADED AREA NOT IN THE SCOPE OF WORK (TYPICAL).
- 5 PROVIDE CW TO COFFEE AND ICE MAKER. SEE SINK DETAIL P2.01.

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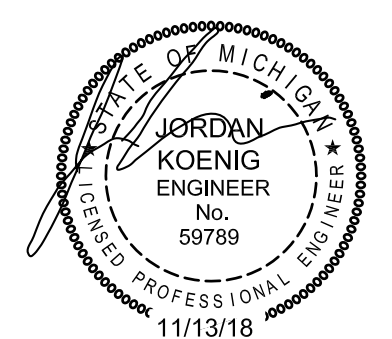
APPROVED BY:
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DRAWN BY:
VG

DATE:
11/09/18

PROJECT NUMBER:
STRUC TEC: T18074 A3C: 18015

DRAWING NUMBER:
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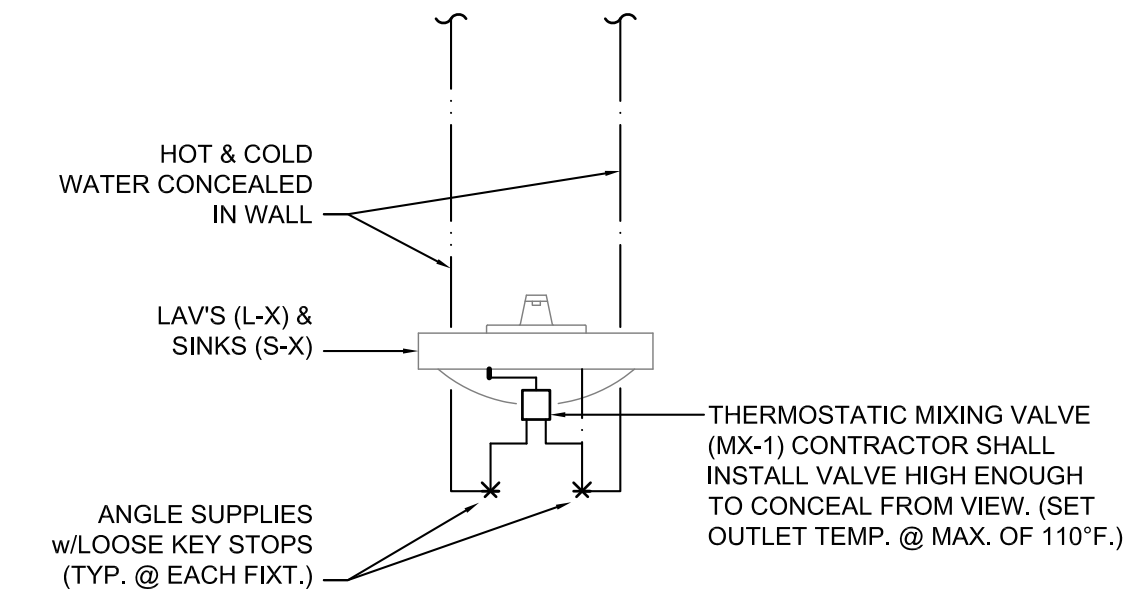
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PLUMBING FIXTURE SCHEDULE									
MARK	ITEM	ADA	DESCRIPTION	ACCESSORIES	PIPE CONNECTION SIZES				NOTES
					W	V	CW	HW	
WC-1	WALL MTD. WATER CLOSET	X	KOHLER Kingston Toilet Bowl Model #K-4325-L	Flushometer: KOHLER Tripoint Model #K-10956-SV Toilet Seat: KOHLER Stronghold Model #K-4731-GC Toilet & Seat Color: White	4"	2"	1-1/4"	---	
LAV-1	LAVATORY	X	Integral Corian Sink Bowl By Architect and Architectural Millwork Refer to Architectural Schedule & Drawings For Size and Color	Lavatory Faucet: KOHLER Triton Bowe Center Set Bathroom Sink Faucet with Wristblade Handles Model #K-400T20-5AKL p-Trap: Provide with Check Stops, P-Trap Covers	1-1/2"	1-1/2"	1/2"	1/2"	1
SINK-1	SINGLE BOWL COUNTERTOP SINK	X	Just-MFG SLX-2019-16-GR 20"x16" (3) Holes	Faucet / Spray: Just-J-990-L S/WF Food Waste Disposer: Model #Insinkerator Badger 5xp, 1/2 HP (Heavy Duty Motor). P-Trap, Check Stops.	1-1/2"	1-1/2"	1/2"	1/2"	2.3
MX-1	THERMOSTATIC MIXING VALVE	---	WATTS USG-B	ASSE 1070 Thermostatic Mixing Valve	---	---	1/2"	1/2"	---
EW-1	ELECTRIC WATER COOLER	X	ELKAY Countertop Fountain Stainless Steel - Model #DRKR14RC For Countertop and Surround Reference Architectural Drawing	Chiller: ELKAY Remote Chiller Non-Filtered 2 GPH Model #ER21Y - Shelf Mounted above Refrigerator. Filter: ELKAY Aqua Sentry Filter System Kit Model #LF2	1-1/2"	1-1/2"	1/2"	---	2

APPROVED PLUMBING FIXTURE MANUFACTURERS: AMERICAN STANDARD, CRANE, TOTO, ELKAY, KOHLER, ZURN, FIAT, FLORESTONE, MUSTEE.
APPROVED PLUMBING HARDWARE MANUFACTURERS: AMERICAN STANDARD, DELTA, KOHLER, CHICAGO, SLOAN, ZURN, TOTO.
(FIXTURES TO BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF "THE BARRIER FREE DESIGN REQUIREMENTS OF THE MICHIGAN CONSTRUCTION CODE".)

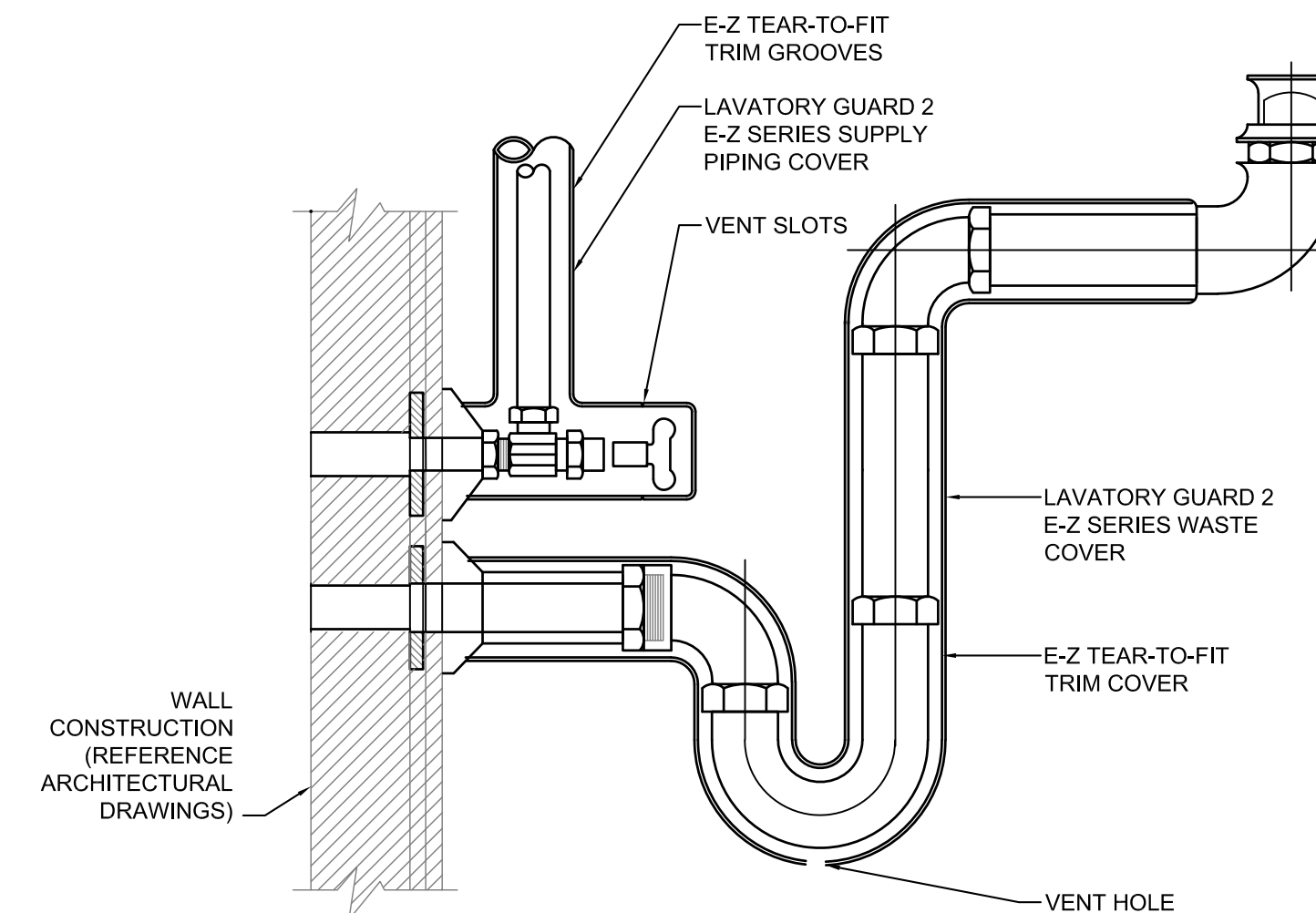
NOTES:

1. PROVIDE PLASTIC TYPE PIPE COVERS EQUAL TO TRUEBRO "LAV GUARD" ON ALL ACCESSIBLE LAVATORIES AND SINKS.
2. COORDINATE WITH ARCHITECT FOR OTHER REQUIREMENTS.
3. PROVIDE SPECIFIED MANUFACTURE SUGGESTED MATCHING ACCESSORIES, AND/OR SUITABLE REINFORCEMENT FOR ALL WALL SUPPORTS.



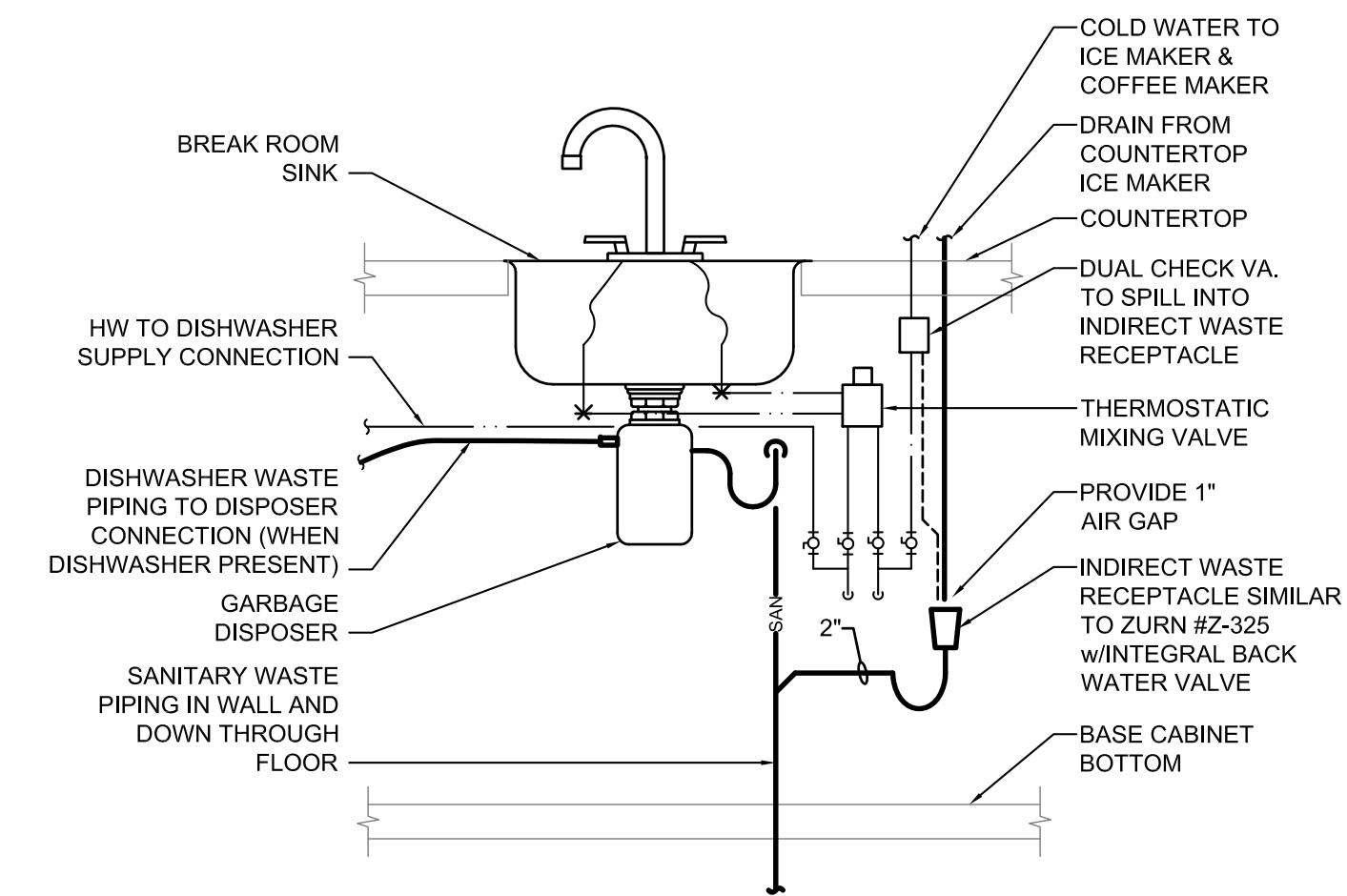
THERMOSTATIC MIXING VALVE DETAIL

N.T.S.



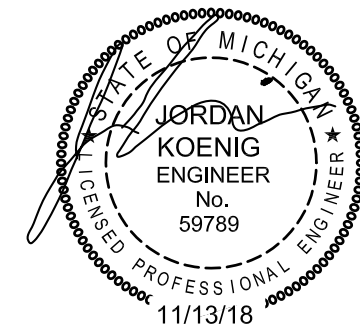
TYPICAL LAVATORY PROTECTION / INSULATION

N.T.S.



KITCHENETTE ROOM SINK PIPING DETAIL

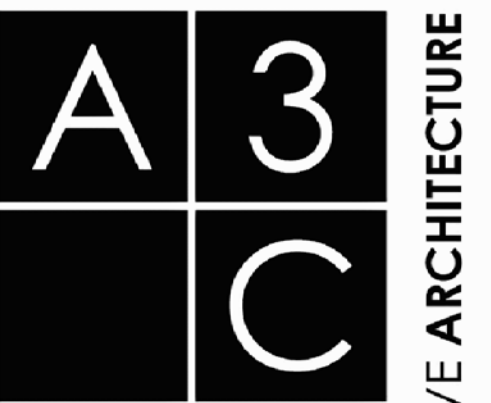
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COLLABORATIVE ARCHITECTURE

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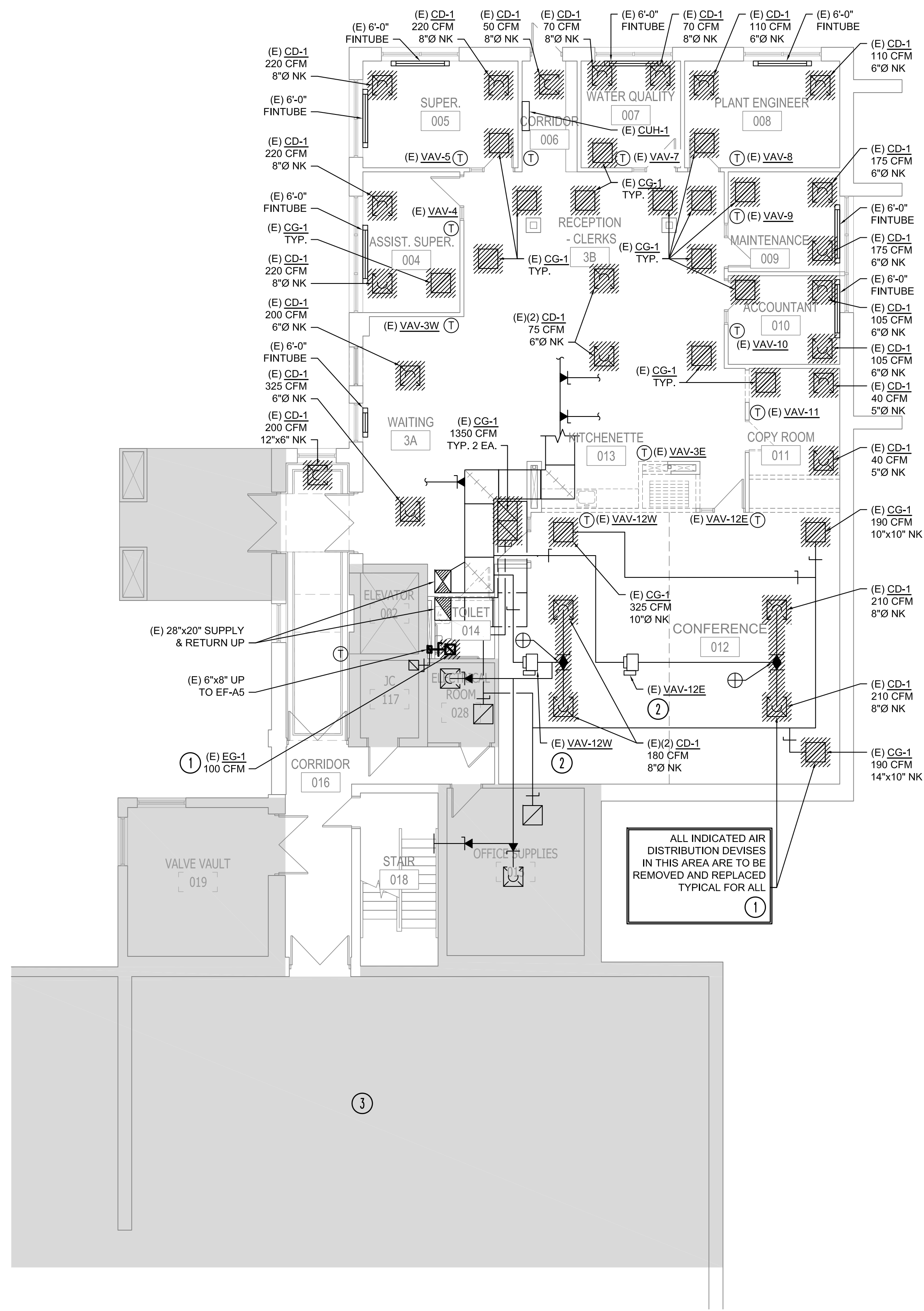
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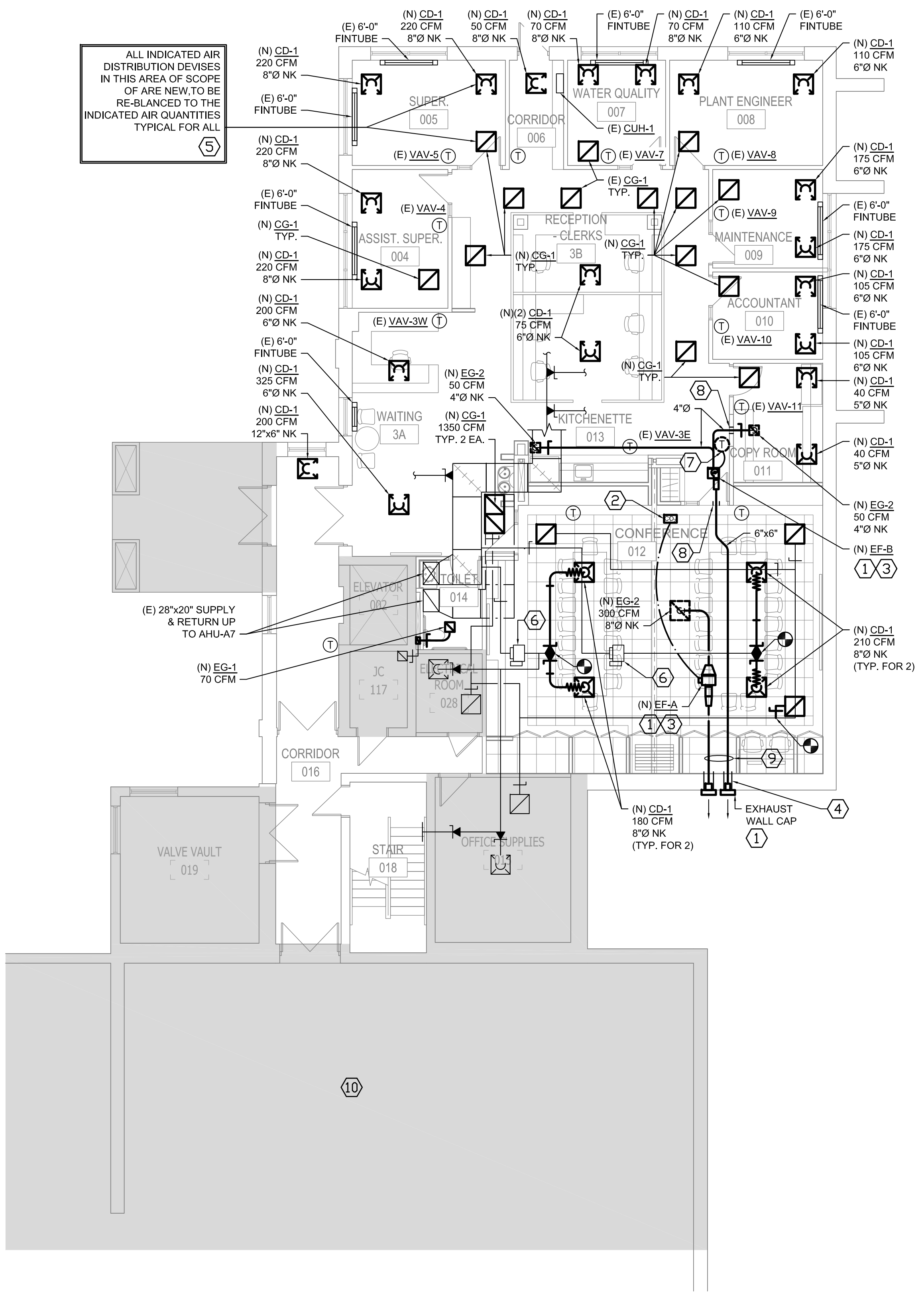
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GROUND FLOOR DEMO WORK PLAN - MECHANICAL
SCALE: 1/8"-1'-0"



GROUND FLOOR NEW WORK PLAN - MECHANICAL
SCALE: 1/8"-1'-0"

GENERAL NOTES:

1. DRAWINGS ARE DIAGRAMMATIC. THE MECHANICAL WORK SHALL BE FIELD VERIFIED BEFORE PROCEEDING.
2. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS AND STATE LAWS.
3. REFER TO MECHANICAL SPECIFICATIONS AND DETAILS FOR OTHER REQUIREMENTS.
4. THE CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS SUPPORT STEEL, ETC. FOR THE PROPER INSTALLATION OF ALL MECHANICAL SYSTEMS.
5. ALL ITEMS ON NEW WORK PLAN SHALL BE CONSIDERED NEW UNLESS NOTED.

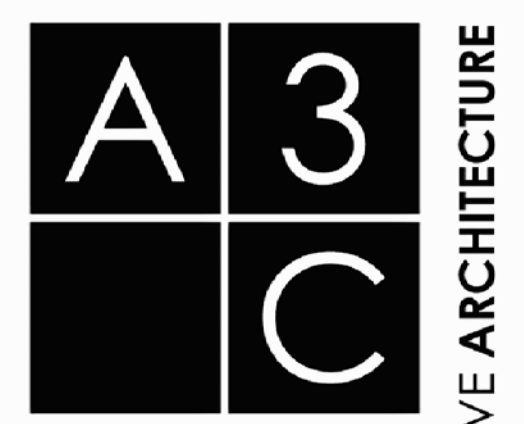
KEYED NOTES - DEMOLITION

- 1 REMOVE AIR DISTRIBUTION DEVICE AND REPLACE WITH NEW. SEE NEW WORK THIS SHEET. COORDINATE IN FIELD FOR AS BUILT CONDITIONS (TYPICAL FOR ALL).
- 2 SEE NEW WORK FOR OTHER REQUIREMENTS.
- 3 SHADED AREA NOT IN THE SCOPE OF WORK (TYPICAL).

KEYED NOTES - NEW WORK

- 1 SEE DETAIL (TYPICAL).
- 2 CO₂ SENSOR TO ENERGIZE EF-A AND SET PER ASHRAE STANDARDS (REFER TO CONTROL DIAGRAM).
- 3 SEE SCHEDULE FOR CONTROL AND INTERLOCKING.
- 4 SEE ARCHITECT FOR PENETRATION MEANS & METHODS.
- 5 NEW AIR DISTRIBUTION DEVICE, SEE SCHEDULE FOR TYPE AND MODEL NUMBER (TYPICAL FOR ALL).
- 6 RE-BALANCE EXISTING TERMINAL BOX TO INDICATED CFM.
- 7 EXHAUST FAN TIMER CONTROL.
- 8 SEE DUCT PENETRATION DETAIL FOR OTHER REQUIREMENTS. SEE ARCHITECT DRAWINGS FOR COORDINATION.
- 9 SAME SIZE OF EXHAUST FAN DISCHARGE DUCT CONNECTION. (SEE FAN MANUFACTURE TYPICAL).
- 10 SHADED AREA NOT IN THE SCOPE OF WORK (TYPICAL).

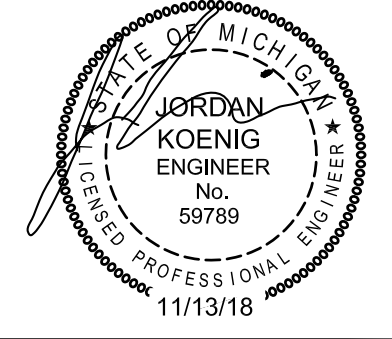
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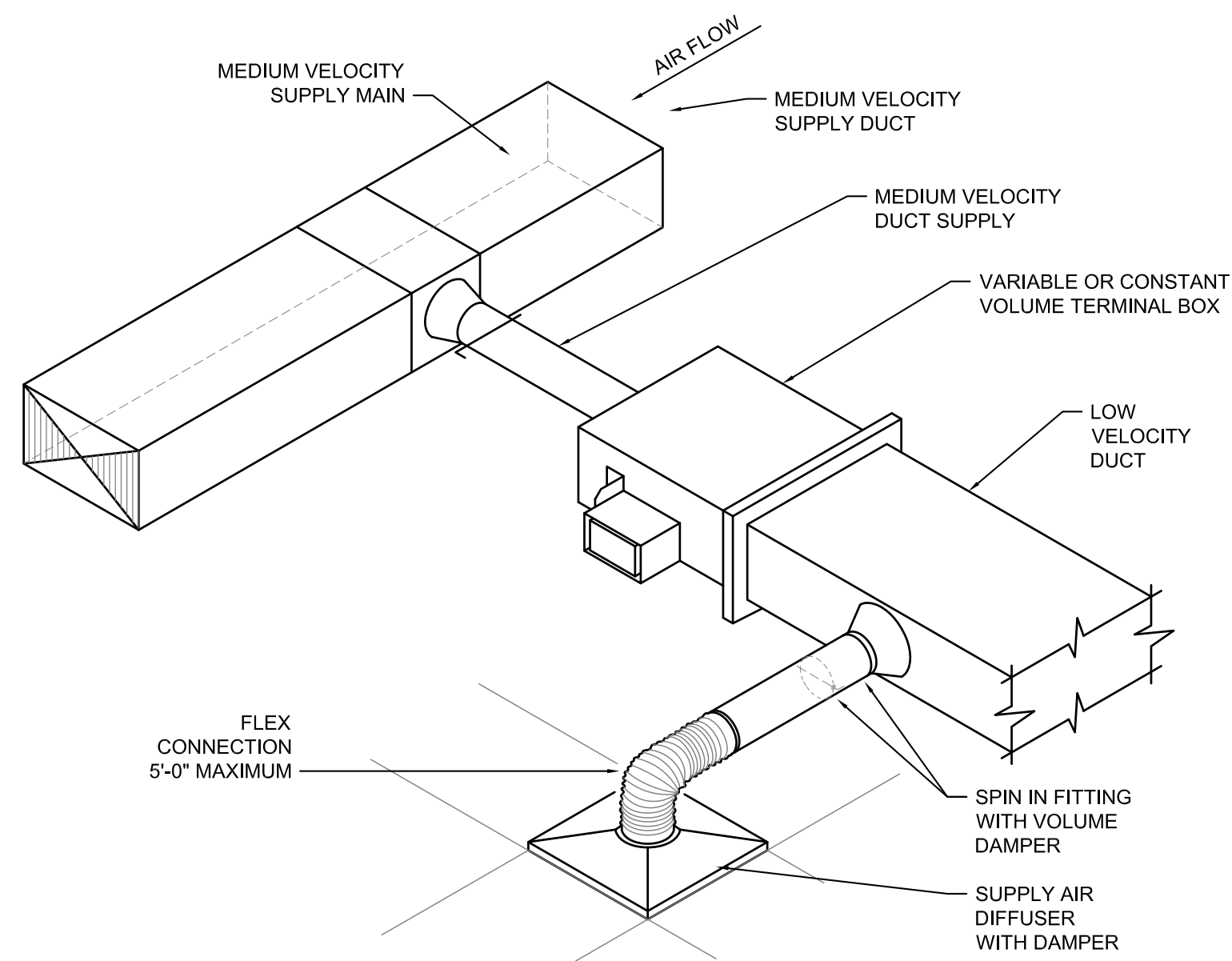
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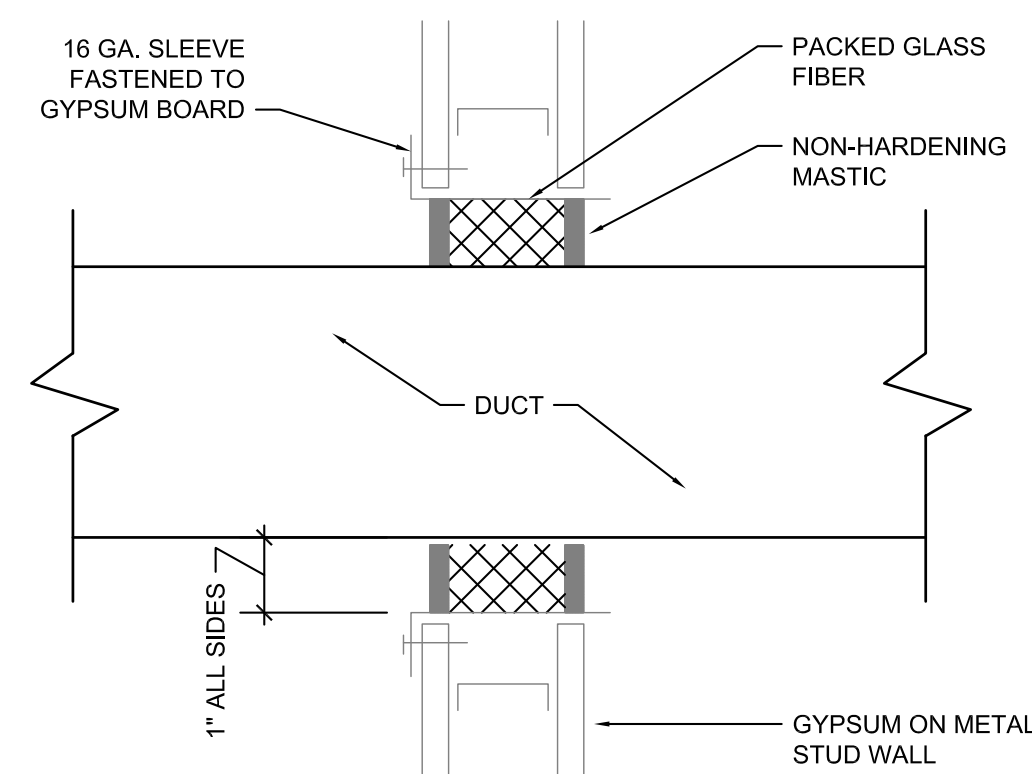


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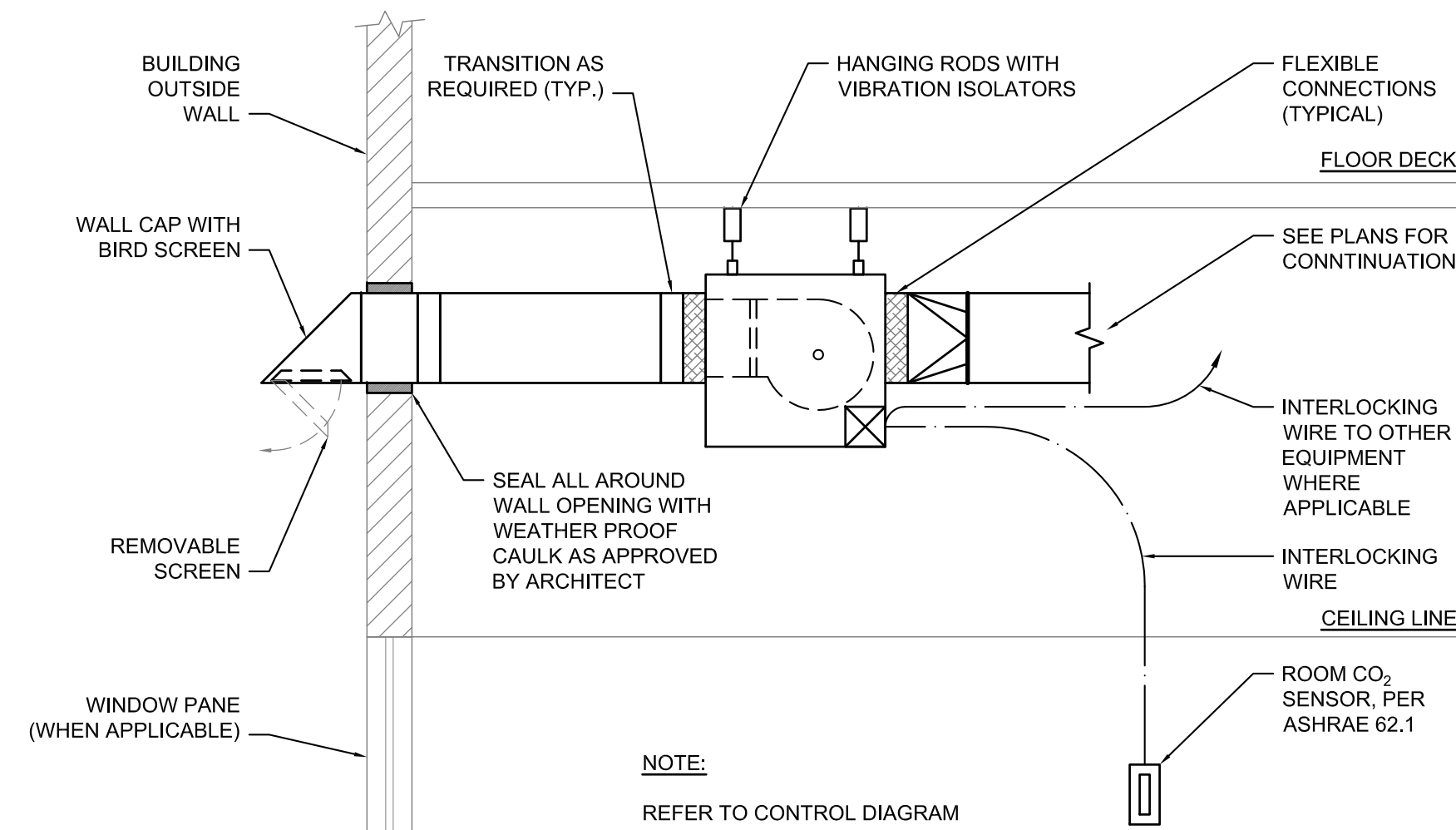
- NOTE:
- FOR RUN-OUT PIPE SIZES AND DUCT CONNECTIONS TO BOXES SEE SCHEDULES.
 - THE FIRST TAKE-OFF FROM BOXES SHALL BE A MINIMUM OF 3'-0" DOWN STREAM OF BOX OUTLET.

TYPICAL TERMINAL VOLUME BOX DETAIL
N.T.S. (FOR REFERENCE ONLY)



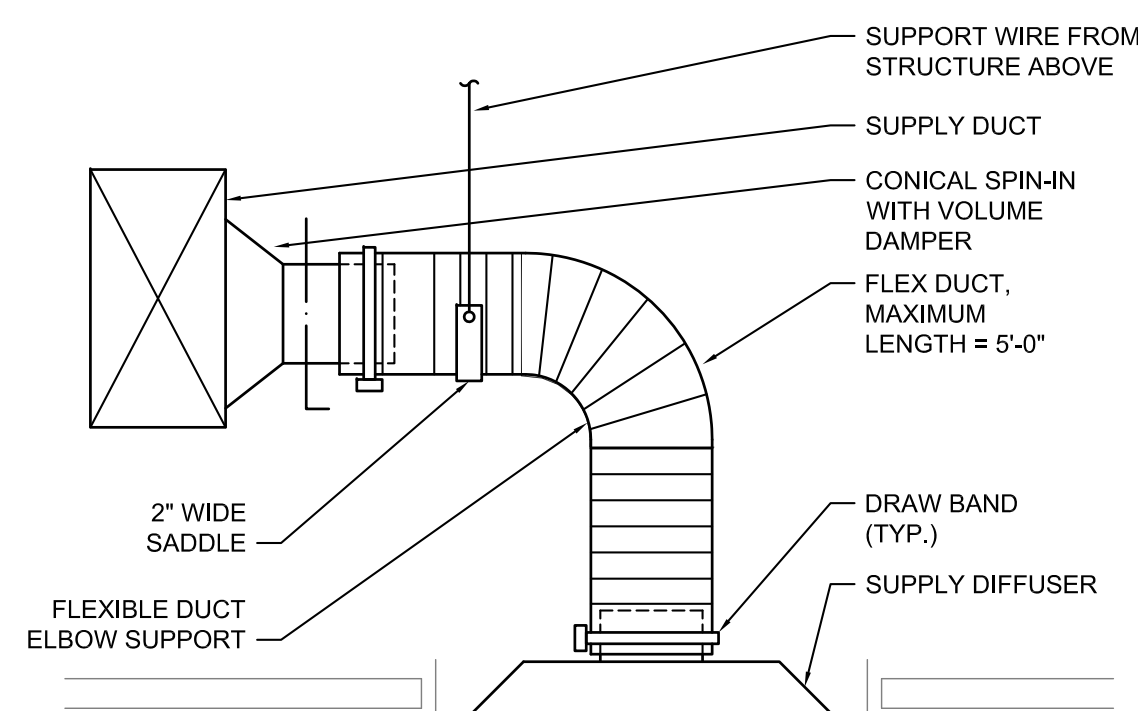
- NOTE:
- COORDINATE WITH ARCHITECTURAL TRADES TO FRAME WALL OPENINGS LARGER THAN 14" WIDE OR WHERE METAL STUD MUST BE CUT TO INSTALL DUCT

DUCT SEAL AT NON RATED WALLS
N.T.S.

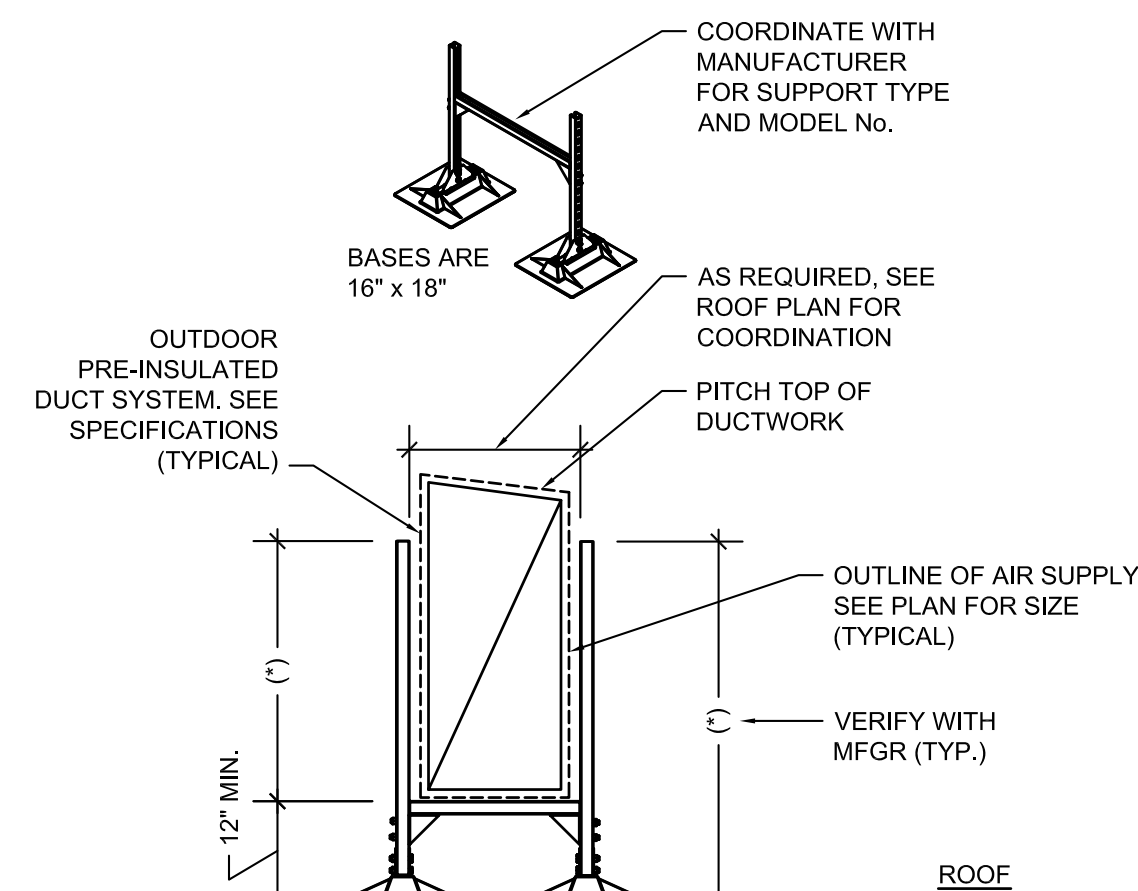


- NOTE:
- REFER TO CONTROL DIAGRAM FOR SEQUENCE OF OPERATION

TYPICAL FAN ASSEMBLY FOR EXHAUST APPLICATION
N.T.S. (NOTE: SEE SCHEDULE FOR SPECIFIC AND/OR OTHER ACCESSORIES)

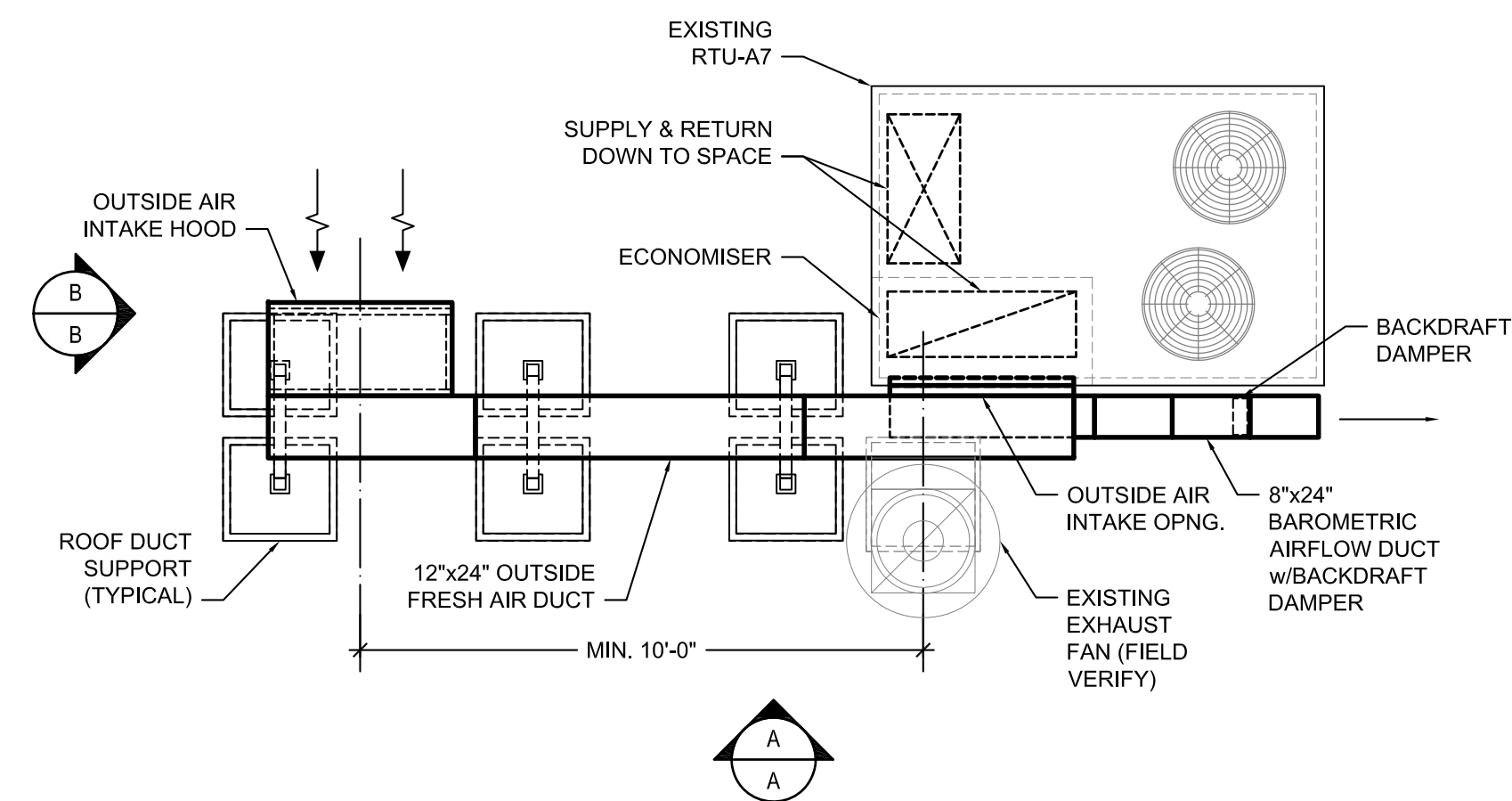


TYPICAL SUPPLY DIFFUSER ASSEMBLY DETAIL
N.T.S.

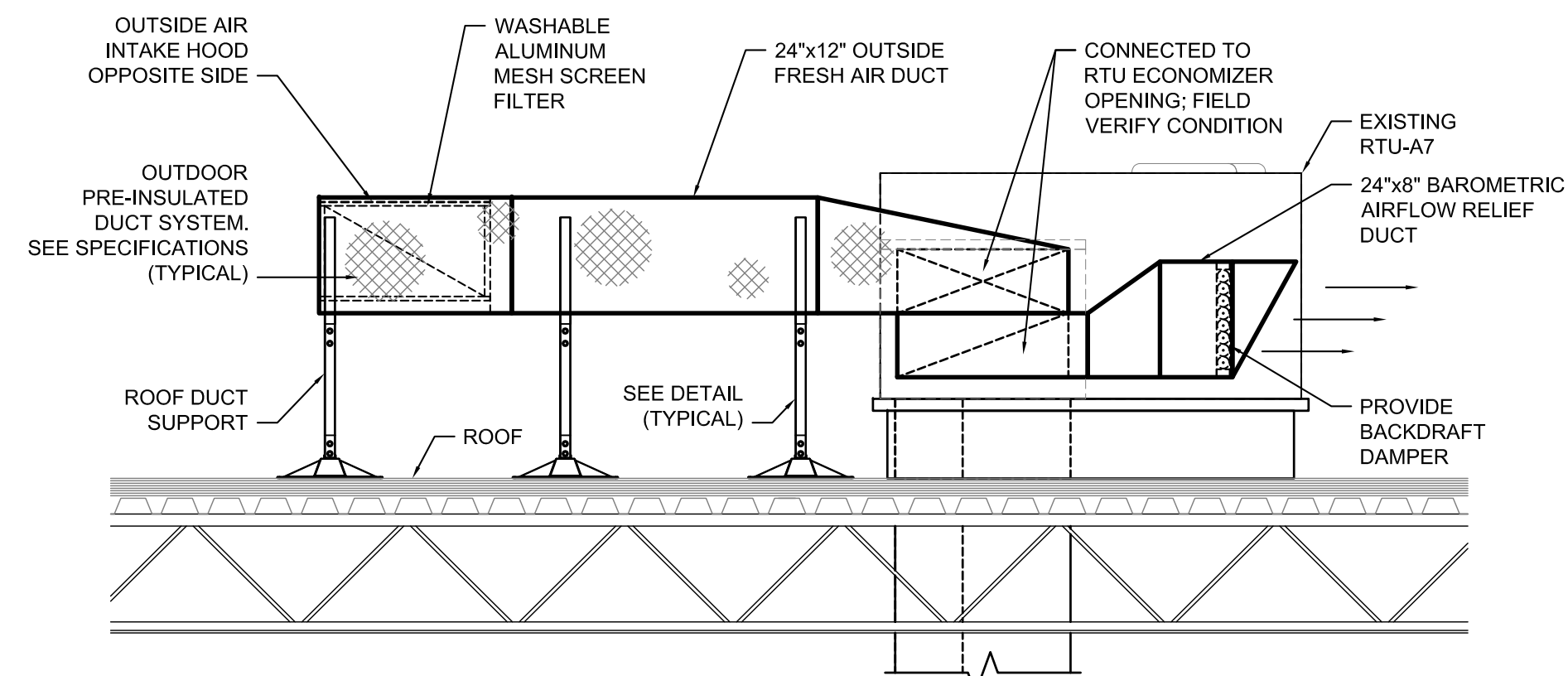


- NOTE:
- STRUT AND ALL HARDWARE ARE HOT DIP GALVANIZED. BASES ARE POLY CARBONATE. DUCTS AND SPACING NOT TO EXCEED 8" ON CENTERS. WEIGHT NOT TO EXCEED 675 lbs. PER STAND.

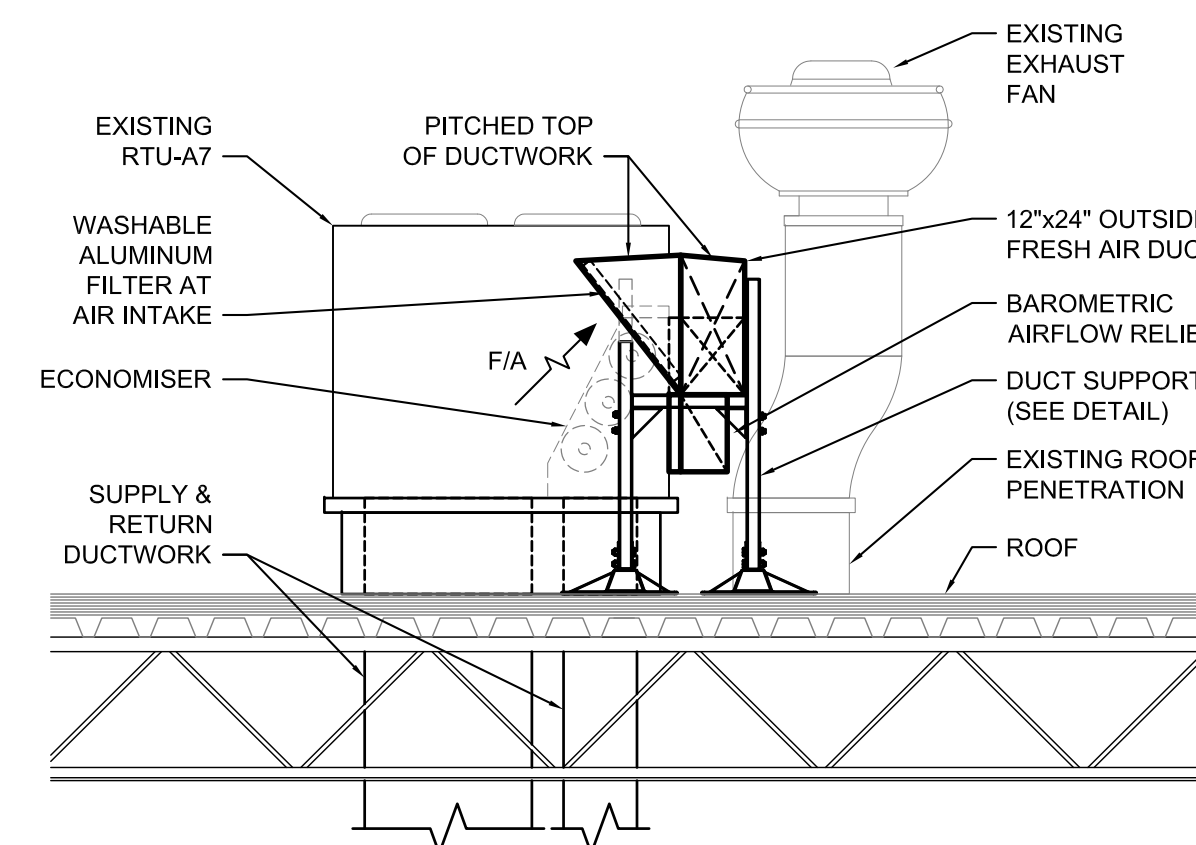
DUCT SUPPORT DETAIL
N.T.S.



PLAN: EXISTING RTU w/NEW OUTSIDE AIR DUCTWORK DETAIL
SCALE: NTS AR



ELEVATION: A - A
SCALE: NTS AR

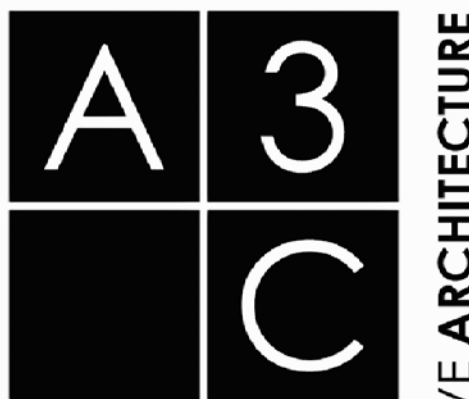


ELEVATION: B - B
SCALE: NTS AR



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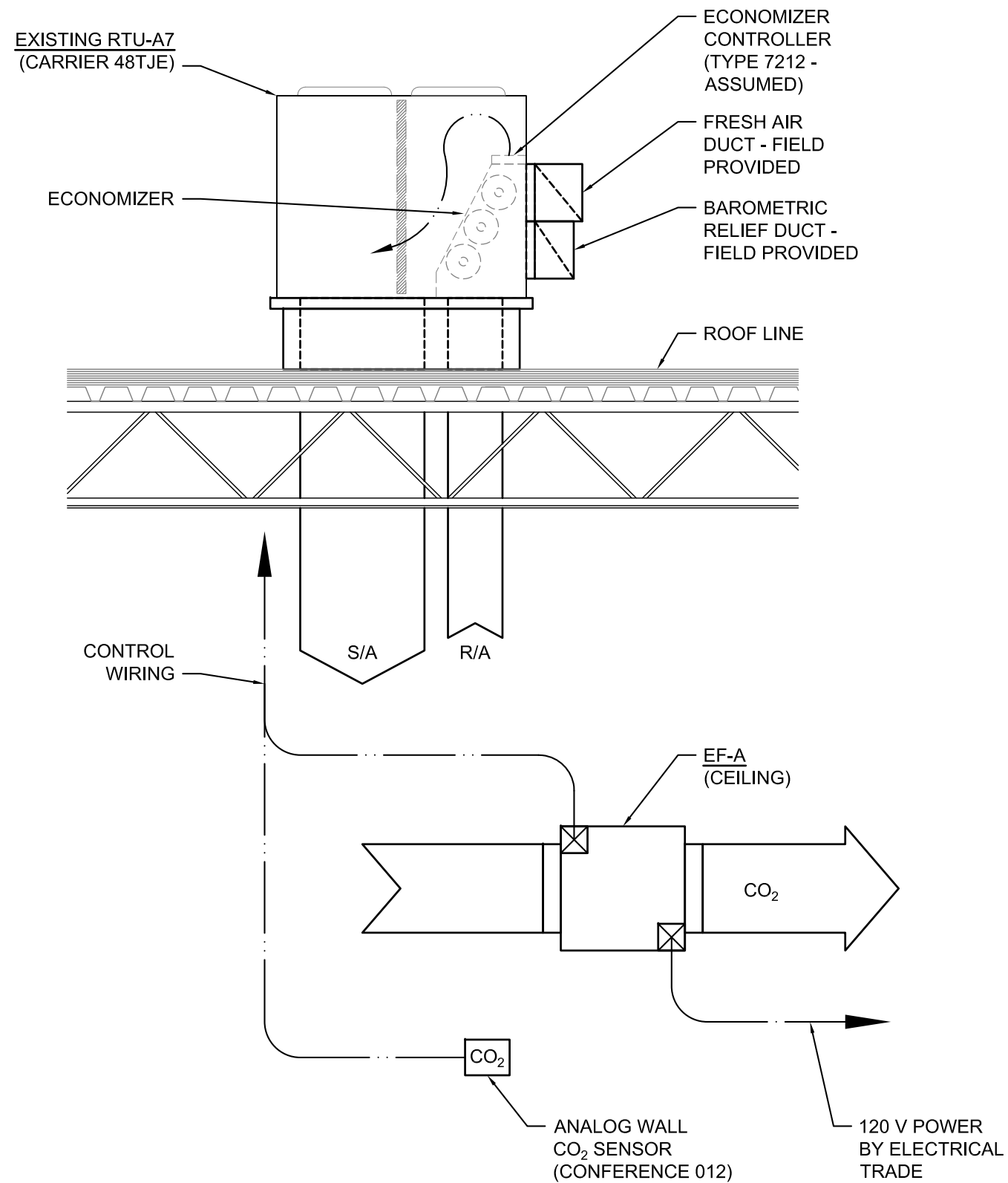
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VENTILATION CONTROL DIAGRAM
N.T.S.

RTU ECONOMIZER & EF SEQUENCE OF OPERATION:

1. THE SPACE CO₂ (ANALOG OUTPUT) SHALL BE CONNECTED TO THE EXISTING ECONOMIZER CONTROLLER.
2. WHEN THE ROOM CO₂ EXCEEDS ASHRAE 62.1 SETTINGS, SHALL OVERRIDE THE ECONOMIZER, AND ENERGIZE THE ROOM EXHAUST FAN. ECONOMIZER SHALL MODULATE OPEN TO MEET FRESH AIR REQUIREMENTS.
3. UNDER NORMAL ROOM OCCUPANCY:
 - A) THE ECONOMIZER SHALL BE OPEN TO MAINTAIN A MINIMUM POSITION OF <18% OF TOTAL AIR SUPPLY.
 - B) EF-A SHALL BE IN "OFF" MODE.

OUTDOOR AIR CALCULATION SCHEDULE													
MARK	ROOM NAME	TOTAL AREA SQ. FT. (Az)	OCCUPANCY CLASSIFICATION	AREA OUTDOOR AIRFLOW RATE (Ra) CFM/SQ. FT.	AREA OUTDOOR AIR (Ra) x (Az) CFM	ACTUAL OCCUPANT DENSITY	ZONE POPULATION (Pz=Az/#1000) PEOPLE	PEOPLE OUTDOOR AIRFLOW RATE (Rp) CFM/PERSON	OCCUPANT OUTDOOR AIR (Rp) x (Pz) CFM	BREATHING ZONE OUTDOOR AIR (Vbz=RpPz+RaAz) CFM	ZONE AIR DISTRIBUTION EFFECTIVENESS (Ez)	ZONE OUTDOOR AIRFLOW REQUIRED (Voz=Vbz/Ez) CFM	TOTAL OUTDOOR AIR PROVIDED WITHIN ZONE CFM
1	CONF. RM. #012	1010	CONF RM	0.06	61	34	34.3	5	171.7	232.3	0.8	290.4	
1	CORRIDOR #006, #016	810	CORRIDOR	0.06	49	0	0.0	5	0.0	48.6	0.8	60.8	
1	WAITING #3A	415	MAIN LOBBY	0.06	25	3	1.2	5	6.2	31.1	0.8	38.9	
1	KITCHENETTE #013	120	COFFEE STATION	0.12	14	1	0.1	7.5	0.9	15.3	0.8	19.1	
1	COPY RM. #011	115	COPY RM.	0.06	7	1	0.1	5	0.6	7.5	0.8	9.3	
1	RECEPTION #3B	300	RECEPTION	0.06	18	10	3.0	5	15.0	33.0	0.8	41.3	
1	OFFICE #4, #5, #7, #8, #9, #10	840	OFFICE SPACE	0.06	50	6	5.0	5	25.2	75.6	0.8	94.5	
1	OFFICE SUPPLY #15	250	STORAGE	0.12	30	0	0.0	0	0.0	30.0	0.8	37.5	
												554	560

PER THE 2015 INTERNATIONAL MECHANICAL CODE TABLE 403.3.1.1 THE SPACES WITHIN THIS SCHEDULE MEET OR EXCEED THE REQUIREMENTS FOR OUTDOOR AIR FLOW RATE.

VENTILATION CALCULATION SCHEDULE										
ROOM NAME	ROOM NUMBER	ROOM AREA (SQ. FT)	AREA DESIGNATION	CEILING HEIGHT (FT.)	ROOM VOLUME (FT3)	TABLE 2A REQUIREMENTS				
						AIR MOVEMENT RELATIONSHIP TO ADJACENT AREA	MINIMUM AIR CHANGES OF O.A. PER HOUR	ALL AIR EXHAUSTED DIRECTLY TO OUTDOORS	DESIGN EXHAUST AIR (CFM)	MIN. REQUIRED SUPPLY AIR (CFM)
TOILET ROOM	014	60	TOILET ROOM	8	480	IN	8	YES	64	70
JAN. ROOM	117	60	JAN. ROOM	8	480	IN	8	YES	64	70
TOTAL										140

1. SCHEDULE BASED ON THE 2012 MICHIGAN MECHANICAL CODE.
2. ROOMS NOT INDICATED IN TABLE 2A ARE CALCULATED PER 2015 MICHIGAN MECHANICAL CODE SECTION 403.3.

EXHAUST FAN SCHEDULE												
MARK	MANUFACTURER	MODEL NUMBER	AREA SERVED	LOCATION	AIRFLOW (CFM)	EXTERNAL S.P.	FAN (RPM)	FAN (BHP)	FAN (HP)	SONES	ELECTRICAL	NOTES
EF-A	COOK	GN-520	SEE PLANS	PLENUM	311	0.500	1200	171	---	2.5	115V / 1PH	1,2,3,4,6,7
EF-B	COOK	GC-144	SEE PLANS	PLENUM	108	0.500	1100	98	---	2.0	115V / 1PH	1,2,3,4,5,7

(APPROVED EQUAL: GREENHECK, ACME, COOK, PENN, TWIN CITY, RUPP AIR)

- NOTES:
1. FAN SHALL HAVE AMCA SEAL & BE U.L. CERTIFIED.
 2. SAFETY DISCONNECT SWITCH.
 3. PROVIDE DUCT MOUNTED GRAVITY BACKDRAFT DAMPER.
 4. PROVIDE MOUNTING HARDWARE AND VIBRATION ISOLATORS.
 5. FAN CONTROLLED BY TIMER.
 6. FAN CONTROLLED BY ROOM'S CO₂ SENSOR
 7. PROVIDE WALL EXHAUST CAP SEE MANUFACTURE FOR TYPE AND MODEL NUMBER.

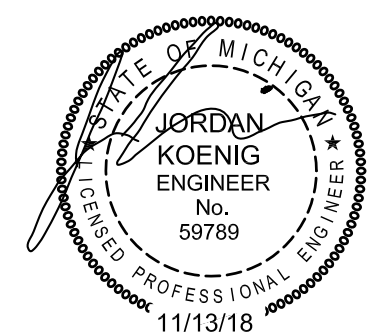
GRILLES REGISTERS AND DIFFUSERS SCHEDULE									
MARK	MANUFACTURER	MODEL NUMBER	NECK SIZE	DIFFUSER SIZE	FINISH	MOUNTING TYPE	CONSTRUCTION	ACCESSORY	NOTES
CD-1	TITUS	OMNI	SEE PLAN	SEE PLAN	STD	LAY-IN	STEEL	DPR	1
CG-1	TITUS	OMNI	SEE PLAN	SEE PLAN	STD	LAY-IN	ALUMINUM	DPR	1, 2
EG-1	TITUS	50F	SEE PLAN	SEE PLAN	STD	SURFACE	ALUMINUM	DPR	1, 2
EG-2	TITUS	50F	SEE PLAN	SEE PLAN	STD	LAY-IN	ALUMINUM	DPR	1, 2

(APPROVED EQUAL: TITUS, PRICE)

- NOTES:
1. REFER TO REFLECTED CEILING PLAN FOR LOCATIONS. PROVIDE ALL ACCESSORIES NEEDED TO PROPERLY MOUNT DEVICES.
 2. 1/2"x1/2"x1/2" ALUMINUM EGGCRATE GRID.

DUCTWORK APPLICATION SCHEDULE		
AIR SYSTEM	MATERIAL	DESIGN PRESSURE CLASSIFICATION (INCHED, WG)
SUPPLY AIR DOWNSTREAM OF AIR TERMINAL UNITS	LINED GALVANIZED STEEL	+ 2
TOILET ROOM EXHAUST, JANITOR'S CLOSET EXHAUST	GALVANIZED STEEL	- 2
RETURN AIR	GALVANIZED STEEL - LINED GALVANIZED STEEL WHERE INDICATED ON DRAWINGS	- 2
OUTSIDE AIR INTAKE PLENUMS (*)	DOUBLE WALL LINED GALVANIZED STEEL PANELS	- 6

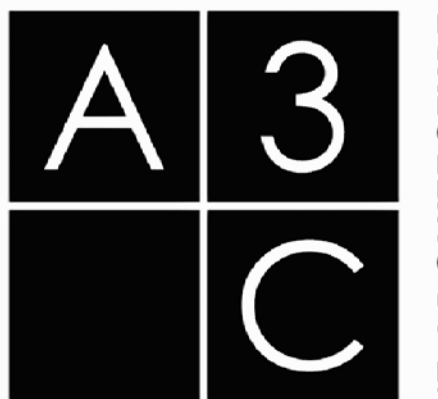
* PITCH DUCTWORK TO LOW POINTS AS INDICATED ON THE DRAWINGS.



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SCALE: NTS

APPROVED BY: FP

DRAWN BY: CP

DATE: 11/09/18

PROJECT NUMBER: T18074 A3C: 18015

DRAWING NUMBER: M2.02

ELECTRICAL SYMBOL LIST

Table listing electrical symbols and their descriptions, including luminaires, switches, outlets, and control devices.

LIGHTING CONTROL SYMBOL LEGEND

Legend for lighting control symbols, including ON/OFF RAISE/LOWER, DIMMERS, RELAY MODULES, and OCCUPANCY SENSORS.

NOTES:

- 1. ALL OCCUPANCY SENSORS SHALL BE MOUNTED TO A VIBRATION-FREE SURFACE...
2. ALL CONTROL TYPES INDICATED MAY NOT NECESSARILY BE USED ON THIS PROJECT.
3. SET TIME DELAY OF EACH SENSOR TO 15 MINUTES.
4. PRODUCTS BY ALTERNATE MANUFACTURERS OF EQUAL QUALITY AND PERFORMANCE ARE ACCEPTABLE.

LIGHTING FIXTURES SCHEDULE

Schedule table for lighting fixtures with columns: TYPE, DESCRIPTION AND MANUFACTURER, LAMP TYPE.

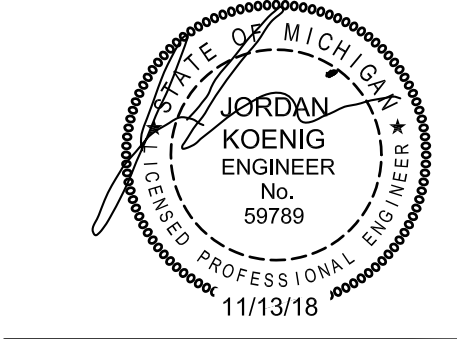
LIGHTING FIXTURE NOTES

- 1. ALTERNATE LIGHTING MANUFACTURERS EQUIPMENT SHALL BE SIMILAR IN PERFORMANCE...
2. ALTERNATE LIGHTING FIXTURE TYPES PROPOSED TO BE SUBSTITUTED BY BIDDING CONTRACTOR...
3. ALL SHOP DRAWINGS SUBMITTED AFTER AWARD OF CONTRACT...
4. FIXTURES SIMILAR IN DESIGN...
5. LIGHT EMITTING DIODE (LED) LAMPS AND FIXTURES...
6. THE RATED DRIVER INPUT WATTAGE AND TOTAL NUMBER OF LEDS SHALL BE PUBLISHED...
7. LED FIXTURES SHALL INCLUDE A SACRIFICIAL SURGE PROTECTION DEVICE...
8. LED LAMPS AND FIXTURES SHALL BE APPROVED AND LISTED UNDER EITHER ENERGY STAR...
9. DESIGN LIGHTS CONSORTIUM: LED LUMINAIRES SHALL BE TESTED...
10. COLOR STABILITY SHALL BE WARRANTED TO MAINTAIN COLOR PROPERTIES...
11. COLOR RENDERING INDEX (CRI) OF LED LAMPS SHALL BE 80 OR ABOVE.
12. LAMP LIFE SHALL EXCEED 50,000 HOURS.
13. SHALL BE DIMMABLE DOWN TO 5% UNLESS OTHERWISE NOTED.
14. INSTALLATION:
1) LIGHT FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
15. ARCHITECTURAL DRAWINGS, WHERE APPLICABLE, SHALL BE USED FOR EXACT LOCATION OF LIGHT FIXTURES.

GENERAL NOTES:

- 1. THE CONTRACTOR SHALL ABIDE BY ALL FEDERAL, STATE, AND/OR LOCAL CODES...
2. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO THE COMMENCEMENT OF ANY WORK...
3. COORDINATE LOCATIONS OF ALL CEILING MOUNTED DEVICES WITH OTHER TRADES...
4. COORDINATE ALL ROUGH-IN REQUIREMENTS FOR OWNER FURNISHED EQUIPMENT...
5. COORDINATE WITH MILLWORK CONTRACTOR TO DETERMINE THE EXACT LOCATION OF OUTLETS...
6. ALL DEVICES ARE TO BE FLUSH MOUNTED UNLESS NOTED OTHERWISE.
7. DEVICES NOTED "GFI" SHALL INCLUDE GROUND FAULT INTERRUPTING DEVICES.
8. DEVICES NOTED "WP" SHALL BE WEATHERPROOF, "WHILE-IN-USE" TYPE WHERE APPLICABLE.
9. DEVICES NOTED "NL" SHALL BE NIGHT LIGHTS...
10. ELECTRICAL CONTRACTOR SHALL PROVIDE SAFETY DISCONNECT SWITCHES FOR ALL MECHANICAL AND PLUMBING EQUIPMENT.
11. MULTI-WIRE BRANCH CIRCUITS SHALL BE PROVIDED WITH THE MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS...
12. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT-CARRYING CONDUCTORS...
13. BRANCH CIRCUIT HOMERUN CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH THE 2014 NEC...
14. THE CONTRACTOR SHALL ABIDE BY ALL FEDERAL, STATE, AND/OR LOCAL CODES...
15. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO THE COMMENCEMENT OF ANY WORK...
16. COORDINATE WITH MILLWORK CONTRACTOR TO DETERMINE THE EXACT LOCATION OF OUTLETS...
17. COORDINATE ALL ROUGH-IN REQUIREMENTS FOR OWNER FURNISHED EQUIPMENT...
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PANEL BOARD LP-15 VOLTAGE 120/208V, 3Ø 4W. SYM. A.I.C. MIN. 10,000. MOUNTING SURFACE. Table with columns for LOAD - V.A., CKT, BRKR, LOAD - V.A., and LOAD SERVED.



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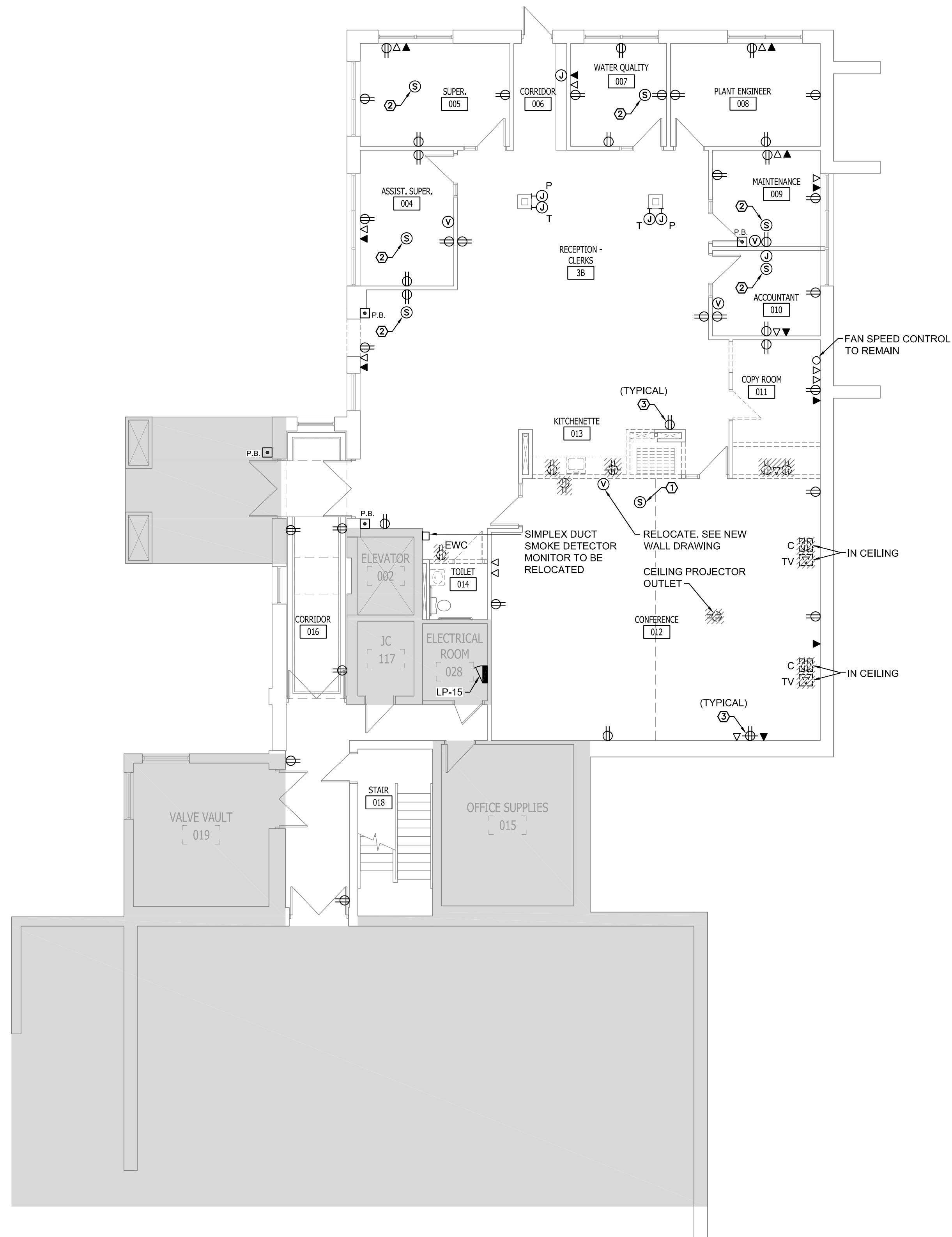


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REVISIONS / ADDENDA table with columns for description and date.

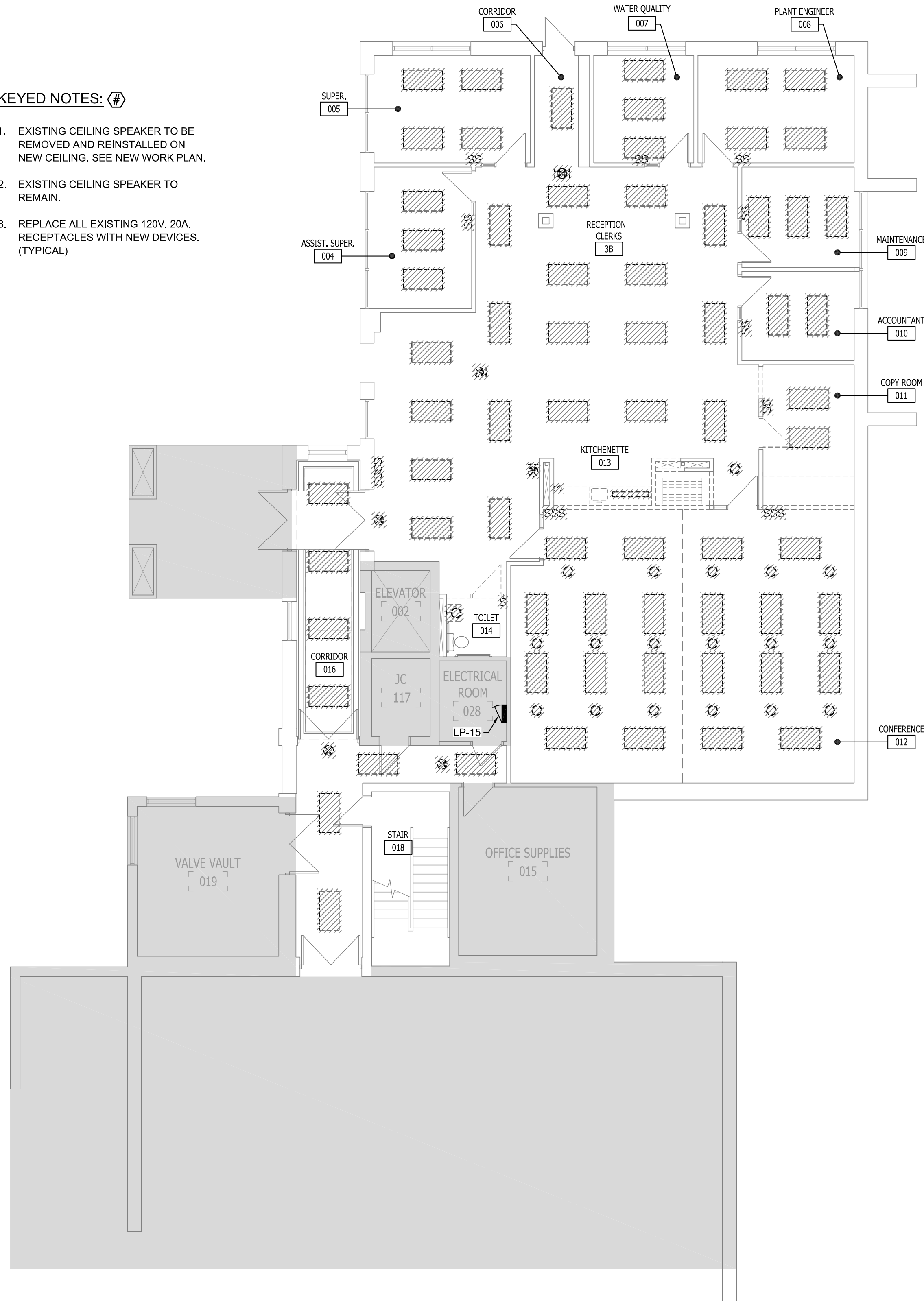
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GROUND FLOOR DEMOLITION PLAN - POWER
SCALE: 1/8"-1'-0"

KEYED NOTES: (7)

1. EXISTING CEILING SPEAKER TO BE REMOVED AND REINSTALLED ON NEW CEILING. SEE NEW WORK PLAN.
2. EXISTING CEILING SPEAKER TO REMAIN.
3. REPLACE ALL EXISTING 120V, 20A. RECEPTACLES WITH NEW DEVICES. (TYPICAL)



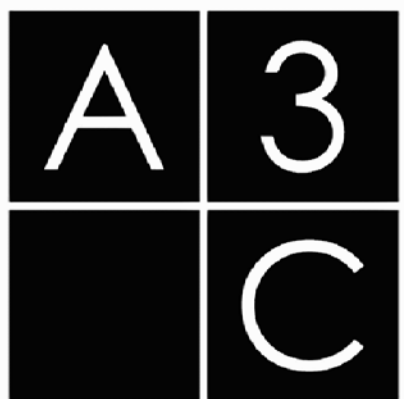
GROUND FLOOR DEMOLITION PLAN - LIGHTING
SCALE: 1/8"-1'-0"



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COLLABORATIVE ARCHITECTURE

Demolition Plan - Electrical

PROJECT
CITY OF ANN ARBOR
INTERIOR RENOVATION
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Ann Arbor MI 48103

REVISIONS / ADDENDA:

BID / PERMIT	11/12/18
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SCALE:

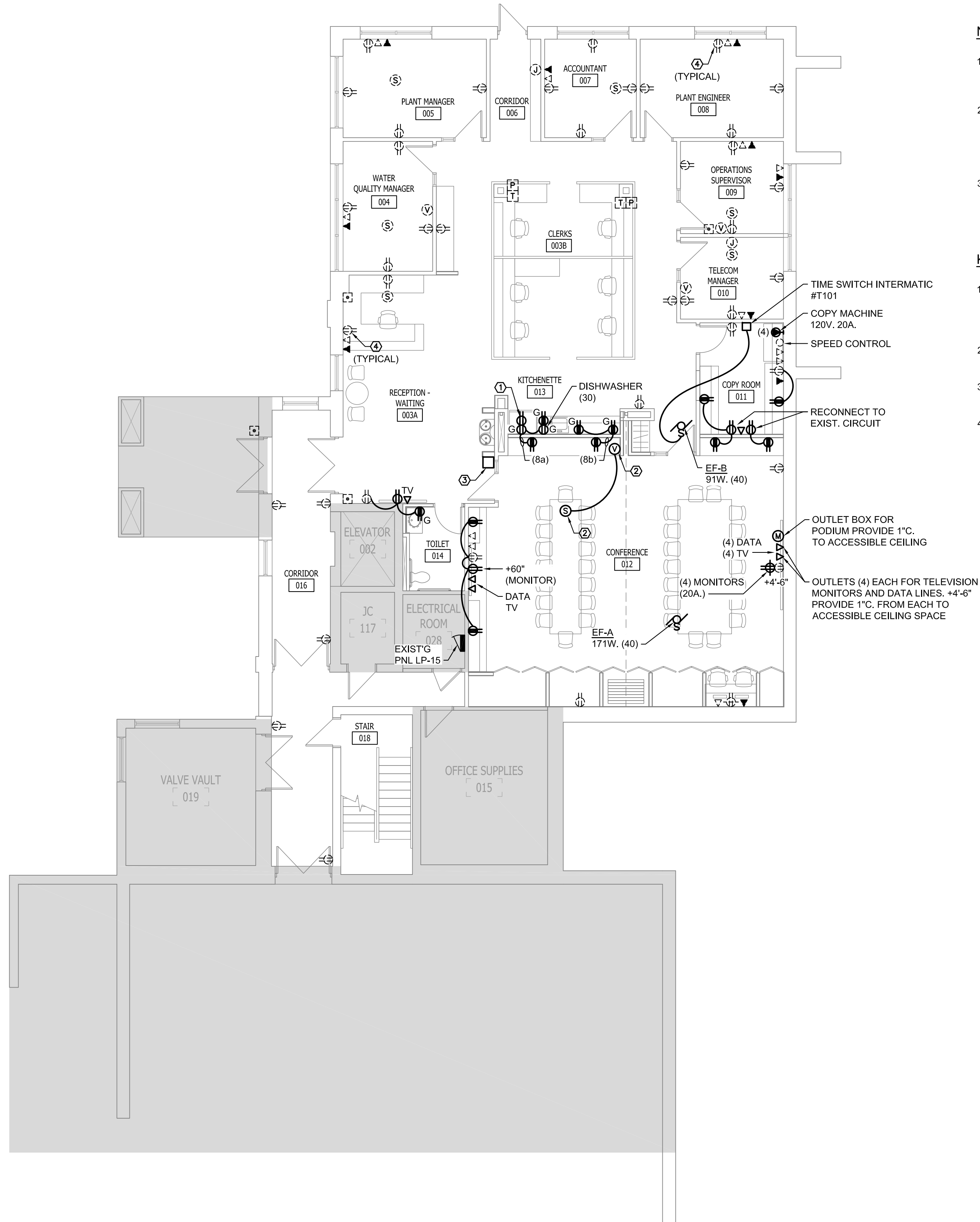
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J.E.

DRAWN BY:
J.L.

DATE:
10/23/2018

PROJECT NUMBER:
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DRAWING NUMBER:
ED.01



GROUND FLOOR NEW WORK PLAN - POWER
SCALE: 1/8"=1'-0"

NOTES:

1. CONNECT ALL EXIT SIGNS AND NIGHT LIGHTS TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHING.
2. CONNECT ALL NEW LIGHTING TO EXISTING LIGHTING CIRCUITS PRESENTLY SERVING AREAS BEING RENOVATED. CIRCUIT NUMBER IN LP-15 DESIGNATED (#).
3. ALL EXISTING COVERPLATES SHALL BE REPLACED WITH NEW.

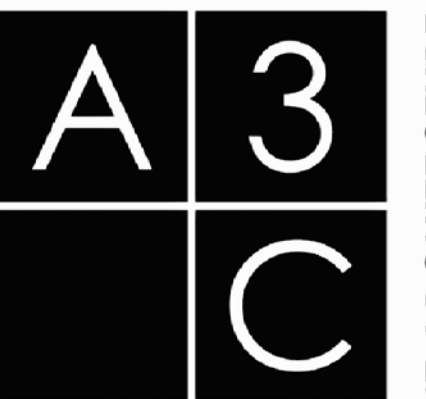
KEYED NOTES: (#)

1. CONNECT NEW REMOTE COOLER FOR EWC TO EXISTING EWC CIRCUIT. COOLER MOUNTED ABOVE REFRIGERATOR.
2. SPEAKER & VOLUME CONTROL TO BE RELOCATED.
3. EXISTING SIMPLEX ANNUNCIATOR TO BE RELOCATED.
4. REPLACE ALL EXISTING 120V, 20A. RECEPTACLES WITH NEW DEVICES. (TYPICAL)



GROUND FLOOR NEW WORK PLAN - LIGHTING
SCALE: 1/8"=1'-0"

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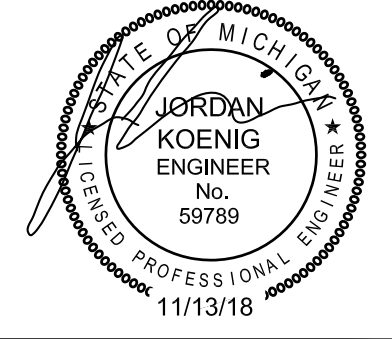


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COLLABORATIVE ARCHITECTURE

New Work Plan - Electrical
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