

Replace Roof Including Sky Light Administration Bldg. & Housing Unit 5 Missouri Eastern Correctional Center Pacific, Missouri

OWNER:

STATE OF MISSOURI
MICHAEL L PARSON,
GOVERNOR

DEPARTMENT OF
CORRECTIONS

PROJECT
MANAGEMENT:

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION



STATE OF MISSOURI CERTIFICATE OF AUTHORITY #2018019473

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ST. CHARLES, MISSOURI 63301

PROJECT NUMBER:

C1916-01

SITE NUMBER:

7007

ASSET NUMBER:

9527007008



BID DOCUMENTS

SHEET TITLE:

COVER SHEET

SHEET NUMBER:

G000

SHEET 1 OF 20
11-05-2019



STATE OF MISSOURI
CERTIFICATE OF AUTHORITY #2018019473

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DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION
DEPARTMENT OF
CORRECTIONS

18701 OLD HIGHWAY 66
PACIFIC, MISSOURI 63069

REPLACE ROOF
INCLUDING SKY LIGHT
ADMINISTRATION BLDG &
HOUSING UNIT 5
MISSOURI EASTERN
CORRECTIONAL CENTER

PACIFIC MISSOURI

PROJECT # C1916-01
SITE # 7007
ASSET # 9327007008

REVISION: -
DATE: -
REVISION: -
DATE: -
REVISION: -
DATE: -
ISSUE DATE: NOVEMBER 5, 2019

CAD DWG FILE: G-001
DRAWN BY: EL
CHECKED BY: EL
DESIGNED BY: EL

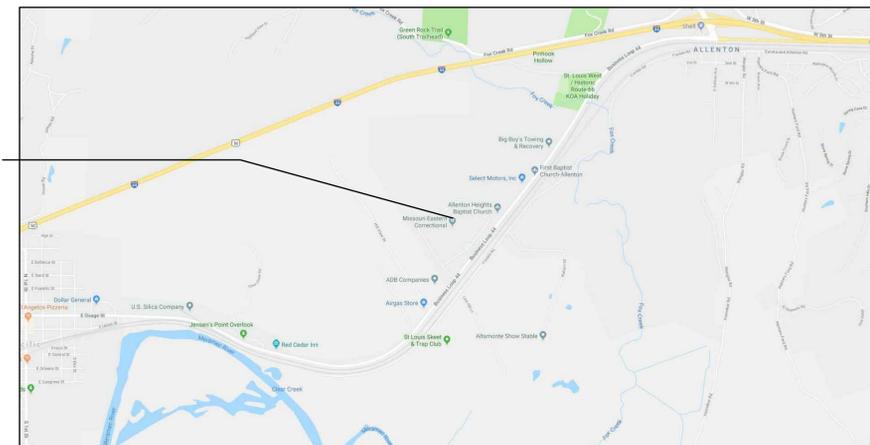
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**PROJECT
INFORMATION**

SHEET NUMBER:

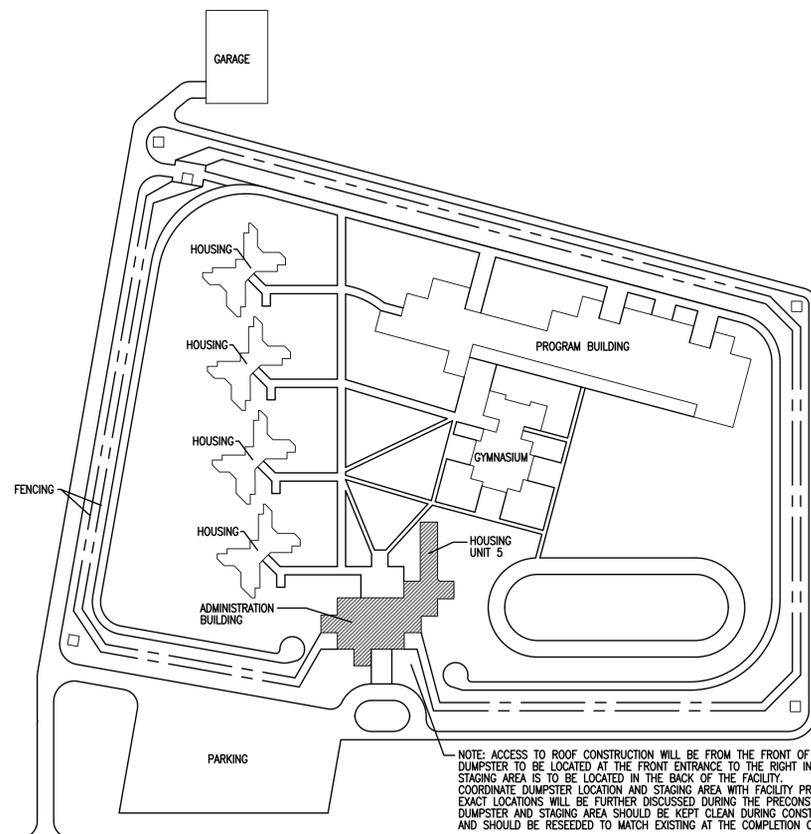
G001

2 OF 20 SHEETS
11/05/2019



MISSOURI EASTERN CORRECTIONAL CENTER
18701 OLD HIGHWAY 66
PACIFIC, MISSOURI 63069

1 LOCATION MAP - EASTERN MISSOURI CORRECTIONAL CENTER, PACIFIC, MO
G001 NOT TO SCALE

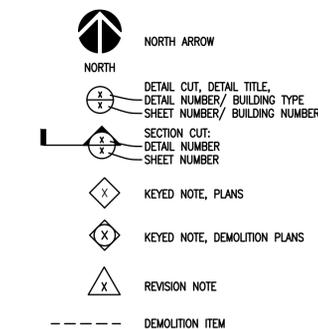


NOTE: ACCESS TO ROOF CONSTRUCTION WILL BE FROM THE FRONT OF THE BUILDING/FACILITY.
DUMPSTER TO BE LOCATED AT THE FRONT ENTRANCE TO THE RIGHT IN THE GRASS AREA NEAR THE SATELLITE DISH.
STAGING AREA IS TO BE LOCATED IN THE BACK OF THE FACILITY.
COORDINATE DUMPSTER LOCATION AND STAGING AREA WITH FACILITY PRIOR TO DEMOLITION/CONSTRUCTION.
EXACT LOCATIONS WILL BE FURTHER DISCUSSED DURING THE PRECONSTRUCTION MEETING.
DUMPSTER AND STAGING AREA SHOULD BE KEPT CLEAN DURING CONSTRUCTION
AND SHOULD BE RESEDED TO MATCH EXISTING AT THE COMPLETION OF THE PROJECT.

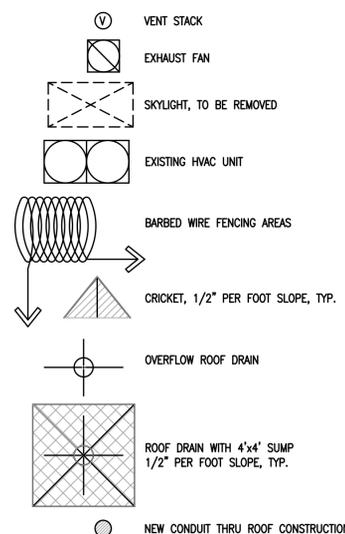


2 SITE MAP - EASTERN MISSOURI CORRECTIONAL CENTER
G001 NOT TO SCALE

STANDARD NOTATION



ROOF SYMBOLS



STANDARD ARCHITECTURAL ABBREVIATIONS

A.B. ANCHOR BOLT	(E) EXISTING ITEM	JAN. JANITOR	REINF. REINFORCED, REINFORCING
ACOUS. ACOUSTIC	EA. EACH	JT. JOINT	REQ'D REQUIRED
A.C.T. ACOUSTIC TILE CEILING	E.J. EXPANSION JOINT		REV. REVISION, REVERSED
ADJ. ADJUSTABLE, ADJACENT	ELEC. ELECTRICAL	L.P. LIGHT POLE	R.T. RUBBER TILE
A.F.F. ABOVE FINISHED FLOOR	ELEV. ELEVATION, ELEVATOR		S&P SHELF AND POLE
ALT. ALTERNATE	ENG. ENGINEER	MAS. MASONRY	SOLID CORE
ALUM. ALUMINUM	E.P. ELECTRIC PANEL	MAX. MAXIMUM	SC SCHEDULE
ARCH. ARCHITECT	EQ. EQUAL	M.E. MATCH EXISTING	A100 ROOF PLAN - AREA A
	EQUIP. EQUIPMENT	MECH. MECHANICAL	A101 ROOF PLAN - AREA B
BC BASE CABINET	E.W.C. ELECTRIC WATER COOLER	MFR. MANUFACTURER	A11 ROOF PLAN - AREA C
BD. BOARD	EXIST. EXISTING	M.H. MAN HOLE	A500 ROOF DETAILS
BET. BETWEEN	EXP. EXPOSED, EXPANSION	MIN. MINIMUM	A501 ROOF DETAILS
BLDG. BUILDING	EXT. EXTERIOR	MISC. MISCELLANEOUS	A502 ROOF DETAILS
BLKG. BLOCKING		MLDG. MOULDING	
BM. BEAM	F FILLER PANEL	M.O. MASONRY OPENING	
B.O. BY OTHERS	F.D. FLOOR DRAIN	MTD. MOUNTED	
BOT. BOTTOM	FDTN. FOUNDATION	MTL. METAL	
BRG. BEARING	F.E. FIRE EXTINGUISHER	MTRL. MATERIAL	
	F.H. FIRE HYDRANT	(N) NEW ITEM	
¢ CENTERLINE	FIN. FINISH	N.I.C. NOT IN CONTRACT	
CAB. CABINET	FLR. FLOOR	No. NUMBER	
CEM. CEMENT	FLUOR. FLUORESCENT	NOM.(±) NOMINAL	
C.J. CONTROL JOINT	F.P.H.B. FREEZE PROOF HOSE BIBB	N.T.S. NOT TO SCALE	
CLG. CEILING	F.R. FIRE RATED	O.C. ON CENTER	
CLOS. CLOSE	F.R.T. FIRE RETARDANT TREATED	O.D. OUTSIDE DIAMETER	
CLR. CLEAR	FT. FOOT, FEET	OPNG. OPENING	
C.M.U. CONCRETE MASONRY UNIT	FTG. FOOTING	OPP. OPPOSITE	
COL. COLUMN		GA. GAUGE	
COMP. COMPACTED, COMPRESSIBLE		GALV. GALVANIZED	
CONC. CONCRETE		G.C. GENERAL CONTRACTOR	
CONST. CONSTRUCTION		GR. GRADE	
CONT. CONTINUOUS		GYP. GYPSUM	
CORR. CORRIDOR		HC HOLLOW CORE, HANDICAPPED	
CPT. CARPET		HDWR. HARDWARE	
C.R.C. COLD ROLLED CHANNEL		H.M. HOLLOW METAL	
C.T. CERAMIC TILE		HORIZ. HORIZONTAL	
		HR. HOUR	
D DRYER		HT. HEIGHT	
DB DRAWER BASE		H.V.A.C. HEATING, VENTILATION, AND AIR CONDITIONING	
DEMO. DEMOLITION			
D.F. DRINKING FOUNTAIN		I INSULATED	
DIA. (ø) DIAMETER		I.D. INTERIOR DIAMETER	
DISP. DISPENSER		INSUL. INSULATION	
DS. DOWNSPOUT		INT. INTERIOR	
DWG. DRAWING			

NOTE: NOT ALL SYMBOLS AND/OR ABBREVIATIONS MAY BE USED

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- 8 A500 ROOF DETAILS
- 9 A501 ROOF DETAILS
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STRUCTURAL

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- 12 S200 ROOF FRAMING PLAN - AREA A
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MECHANICAL, ELECTRICAL, PLUMBING

- 15 ME000 MECHANICAL & ELECTRICAL COVERSHEET - FP, PP, MG, PP, V, TC
- 16 MED200 ROOF PLAN - MECHANICAL & ELECTRICAL DEMOLITION - AREA A
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- 18 ME200 ROOF LEVEL - MECHANICAL & ELECTRICAL - AREA A
- 19 ME201 ROOF LEVEL - MECHANICAL & ELECTRICAL - AREA B
- 20 ME300 MECHANICAL & ELECTRICAL - DETAILS & SCHEDULES

CODE INFORMATION

(ICC) INTERNATIONAL BUILDING CODE (2018 EDITION)
(ICC) INTERNATIONAL EXISTING BUILDING CODE (2018 EDITION)
(NFPA) NATIONAL FIRE PROTECTION ASSOCIATION 70 (2014 EDITION)
(NFPA) NATIONAL FIRE PROTECTION ASSOCIATION 101 LIFE SAFETY CODE (2015 EDITION)
2018 ICC INTERNATIONAL ENERGY CONSERVATION CODE
NATIONAL ELECTRICAL CODE (2008 EDITION)
INTERNATIONAL MECHANICAL CODE (2018 EDITION)
INTERNATIONAL PLUMBING CODE (2018 EDITION)
ENERGY CONSERVATION CODE - ASHRAE 90.1 (2016 EDITION)
NRCA ROOFING AND WATERPROOFING MANUAL
ARCHITECT/ENGINEER'S ROOF DESIGN GUIDELINES - MISSOURI DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

PROJECT INFORMATION:
ADMINISTRATION BUILDING - EXISTING 1-STORY BUILDING WITH PENTHOUSE MECHANICAL SPACE
HOUSING UNIT 5 - EXISTING 1-STORY BUILDING WITH PENTHOUSE MECHANICAL SPACE

HAZARDOUS MATERIALS:
HAZARDOUS MATERIALS TESTING WAS PERFORMED DURING THE INITIAL INVESTIGATION AND NO HAZARDOUS MATERIALS WERE FOUND, SEE SPECIFICATION APPENDIX FOR FURTHER INFORMATION.



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CAD DWG FILE: AD-100
DRAWN BY: EL
CHECKED BY: EL
DESIGNED BY: EL

SHEET TITLE:
DEMOLITION
ROOF PLAN -
AREA A

SHEET NUMBER:

AD100

4 OF 20 SHEETS
11/05/2019

KEYED NOTES - DEMOLITION ROOF PLAN:

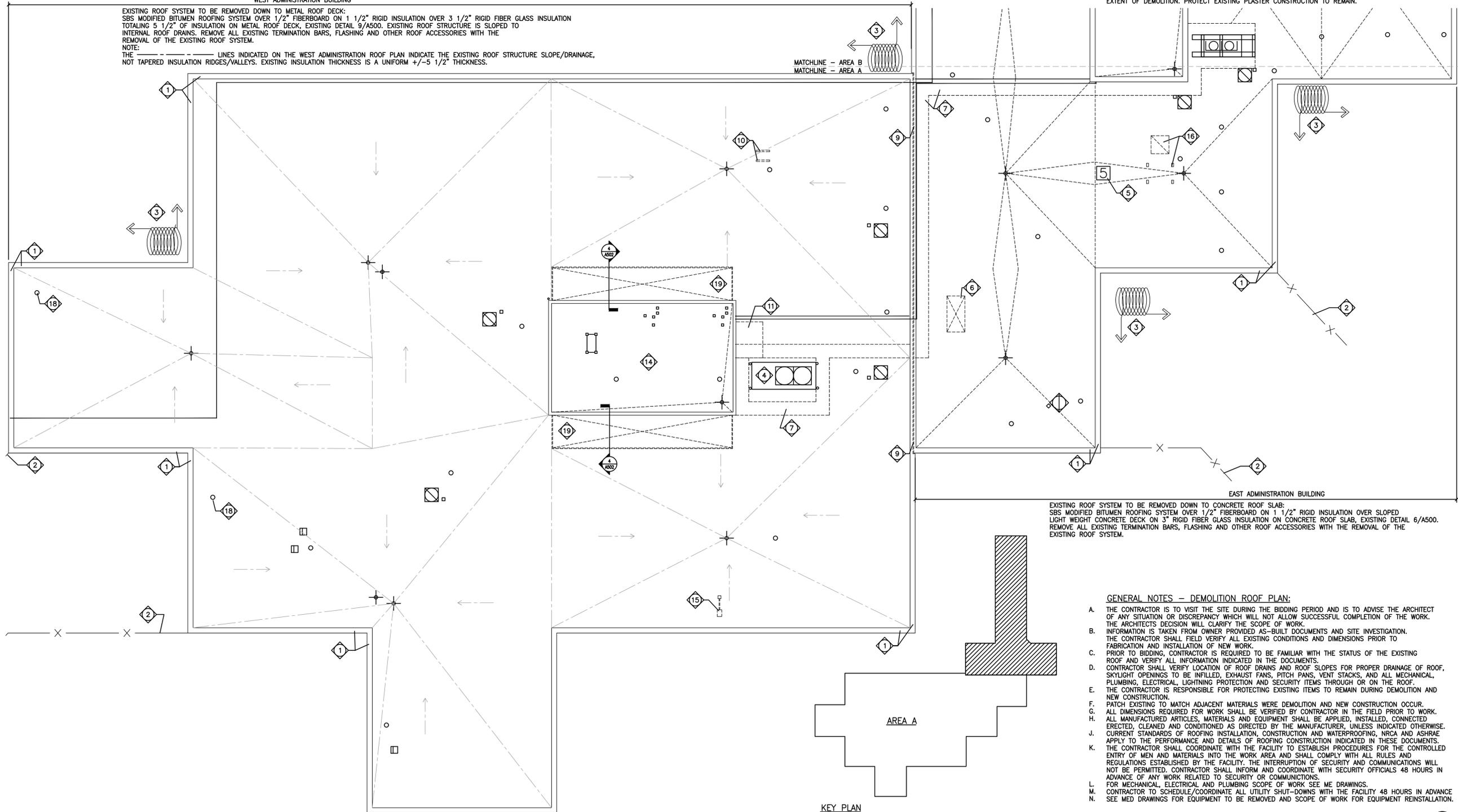
1. EXISTING BRICK MASONRY PARAPET TO REMAIN, REMOVE EXISTING SHEET METAL COPING/CAP AND FLASHING.
2. EXISTING PERIMETER FENCING BEYOND.
3. EXISTING PERIMETER BARBED WIRE TO REMAIN, COORDINATE COPING REINSTALLATION.
4. REMOVE EXISTING MECHANICAL UNIT AS REQUIRED FOR INSTALLATION OF NEW ROOFING, SEE MECHANICAL DRAWINGS FOR SCOPE OF WORK AND REINSTALLATION.
5. REMOVE EXISTING ROOF NUMBER SIGNAGE AND RETAIN FOR REINSTALLATION.
6. REMOVE EXISTING SKYLIGHT, CONCRETE CURB, ROOF FLASHING AND CRICKET, SEE STRUCTURAL DRAWINGS FOR INFILL/DEMOLITION DETAIL AND SCOPE OF WORK, SEE DETAIL 1/A502.
7. REMOVE ALL EXISTING WALKWAYS WITH DEMOLITION OF EXISTING ROOFING SYSTEM DOWN TO EXISTING DECK.
8. NOT USED.
9. REMOVE EXISTING ROOF EXPANSION JOINT COVER AND FLASHING.
10. REMOVE EXISTING UNUSED EQUIPMENT CURBS.
11. REMOVE EXISTING WOOD PLATFORM AT PENTHOUSE DOOR.
12. NOT USED.
13. NOT USED.
14. EXISTING PENTHOUSE BUILDING TO REMAIN, REMOVE EXISTING ROOFING SYSTEM DOWN TO METAL DECK: SBS MODIFIED BITUMEN ROOFING SYSTEM ON 1/2" FIBERBOARD ON 1 1/2" RIGID INSULATION OVER 3 1/2" RIGID FIBER GLASS INSULATION ON METAL ROOF DECK, EXISTING DETAIL 2/A500.
15. EXISTING EQUIPMENT TO BE REMOVED BY THE FACILITY, INFILL DECK AS REQUIRED FOR THE INSTALLATION OF NEW INSULATION AND ROOFING SYSTEM, SEE STRUCTURAL DETAILS FOR INFILL.
16. EXISTING EQUIPMENT TO BE REMOVED, SEE MED DRAWINGS FOR SCOPE OF WORK, INFILL DECK AS REQUIRED FOR THE INSTALLATION OF NEW INSULATION AND ROOFING SYSTEM, SEE STRUCTURAL DRAWINGS FOR INFILL.
17. NOT USED.
18. CORE DRILL EXISTING DECK FOR THE INSTALLATION OF NEW CONDUIT LOCATION. FIELD VERIFY EXACT LOCATION WITH THE FACILITY PRIOR TO DEMOLITION, SEE ME DRAWINGS FOR SCOPE OF WORK.
19. REMOVE EXISTING LOBBY SKYLIGHT, CONCRETE CURB, FLASHING AND PORTION OF PLASTER WALL CONSTRUCTION, SEE STRUCTURAL DRAWINGS FOR INFILL/DEMOLITION DETAIL AND SCOPE OF WORK, SEE DETAIL 4/A502 FOR EXTENT OF DEMOLITION. PROTECT EXISTING PLASTER CONSTRUCTION TO REMAIN.

WEST ADMINISTRATION BUILDING

EXISTING ROOF SYSTEM TO BE REMOVED DOWN TO METAL ROOF DECK:
SBS MODIFIED BITUMEN ROOFING SYSTEM OVER 1/2" FIBERBOARD ON 1 1/2" RIGID INSULATION OVER 3 1/2" RIGID FIBER GLASS INSULATION TOTALING 5 1/2" OF INSULATION ON METAL ROOF DECK, EXISTING DETAIL 9/A500. EXISTING ROOF STRUCTURE IS SLOPED TO INTERNAL ROOF DRAINS. REMOVE ALL EXISTING TERMINATION BARS, FLASHING AND OTHER ROOF ACCESSORIES WITH THE REMOVAL OF THE EXISTING ROOF SYSTEM.

NOTE:
THE _____ LINES INDICATED ON THE WEST ADMINISTRATION ROOF PLAN INDICATE THE EXISTING ROOF STRUCTURE SLOPE/DRAINAGE, NOT TAPERED INSULATION RIDGES/VALLEYS. EXISTING INSULATION THICKNESS IS A UNIFORM +/- 1/2" THICKNESS.

MATCHLINE - AREA B
MATCHLINE - AREA A



EAST ADMINISTRATION BUILDING

EXISTING ROOF SYSTEM TO BE REMOVED DOWN TO CONCRETE ROOF SLAB:
SBS MODIFIED BITUMEN ROOFING SYSTEM OVER 1/2" FIBERBOARD ON 1 1/2" RIGID INSULATION OVER SLOPED LIGHT WEIGHT CONCRETE DECK ON 3" RIGID FIBER GLASS INSULATION ON CONCRETE ROOF SLAB, EXISTING DETAIL 6/A500. REMOVE ALL EXISTING TERMINATION BARS, FLASHING AND OTHER ROOF ACCESSORIES WITH THE REMOVAL OF THE EXISTING ROOF SYSTEM.

GENERAL NOTES - DEMOLITION ROOF PLAN:

- A. THE CONTRACTOR IS TO VISIT THE SITE DURING THE BIDDING PERIOD AND IS TO ADVISE THE ARCHITECT OF ANY SITUATION OR DISCREPANCY WHICH WILL NOT ALLOW SUCCESSFUL COMPLETION OF THE WORK. THE ARCHITECT'S DECISION WILL CLARIFY THE SCOPE OF WORK.
- B. INFORMATION TAKEN FROM OWNER PROVIDED AS-BUILT DOCUMENTS AND SITE INVESTIGATION. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION OF NEW WORK.
- C. PRIOR TO BIDDING, CONTRACTOR IS REQUIRED TO BE FAMILIAR WITH THE STATUS OF THE EXISTING ROOF AND VERIFY ALL INFORMATION INDICATED IN THE DOCUMENTS.
- D. CONTRACTOR SHALL VERIFY LOCATION OF ROOF DRAINS AND ROOF SLOPES FOR PROPER DRAINAGE OF ROOF, SKYLIGHT OPENINGS TO BE INFILLED, EXHAUST FANS, PITCH PANS, VENT STACKS, AND ALL MECHANICAL, PLUMBING, ELECTRICAL, LIGHTNING PROTECTION AND SECURITY ITEMS THROUGH OR ON THE ROOF.
- E. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING ITEMS TO REMAIN DURING DEMOLITION AND NEW CONSTRUCTION.
- F. PATCH EXISTING TO MATCH ADJACENT MATERIALS WERE DEMOLITION AND NEW CONSTRUCTION OCCUR.
- G. ALL DIMENSIONS REQUIRED FOR WORK SHALL BE VERIFIED BY CONTRACTOR IN THE FIELD PRIOR TO WORK.
- H. ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, CLEANED AND CONDITIONED AS DIRECTED BY THE MANUFACTURER, UNLESS INDICATED OTHERWISE.
- J. CURRENT STANDARDS OF ROOFING INSTALLATION, CONSTRUCTION AND WATER-PROOFING, NRCA AND ASHRAE APPLY TO THE PERFORMANCE AND DETAILS OF ROOFING CONSTRUCTION INDICATED IN THESE DOCUMENTS.
- K. THE CONTRACTOR SHALL COORDINATE WITH THE FACILITY TO ESTABLISH PROCEDURES FOR THE CONTROLLED ENTRY OF MEN AND MATERIALS INTO THE WORK AREA AND SHALL COMPLY WITH ALL RULES AND REGULATIONS ESTABLISHED BY THE FACILITY. THE INTERRUPTION OF SECURITY AND COMMUNICATIONS WILL NOT BE PERMITTED. CONTRACTOR SHALL INFORM AND COORDINATE WITH SECURITY OFFICIALS 48 HOURS IN ADVANCE OF ANY WORK RELATED TO SECURITY OR COMMUNICATIONS.
- L. FOR MECHANICAL, ELECTRICAL AND PLUMBING SCOPE OF WORK SEE ME DRAWINGS.
- M. CONTRACTOR TO SCHEDULE/COORDINATE ALL UTILITY SHUT-DOWNS WITH THE FACILITY 48 HOURS IN ADVANCE.
- N. SEE MED DRAWINGS FOR EQUIPMENT TO BE REMOVED AND SCOPE OF WORK FOR EQUIPMENT REINSTALLATION.





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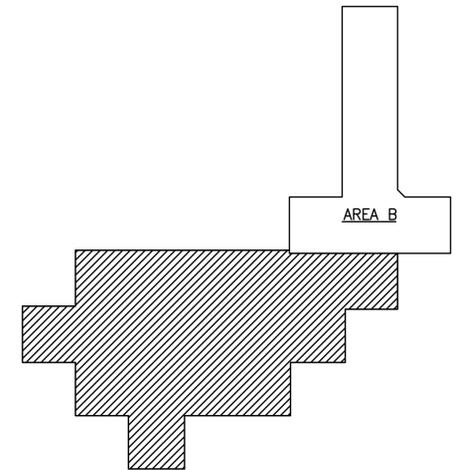
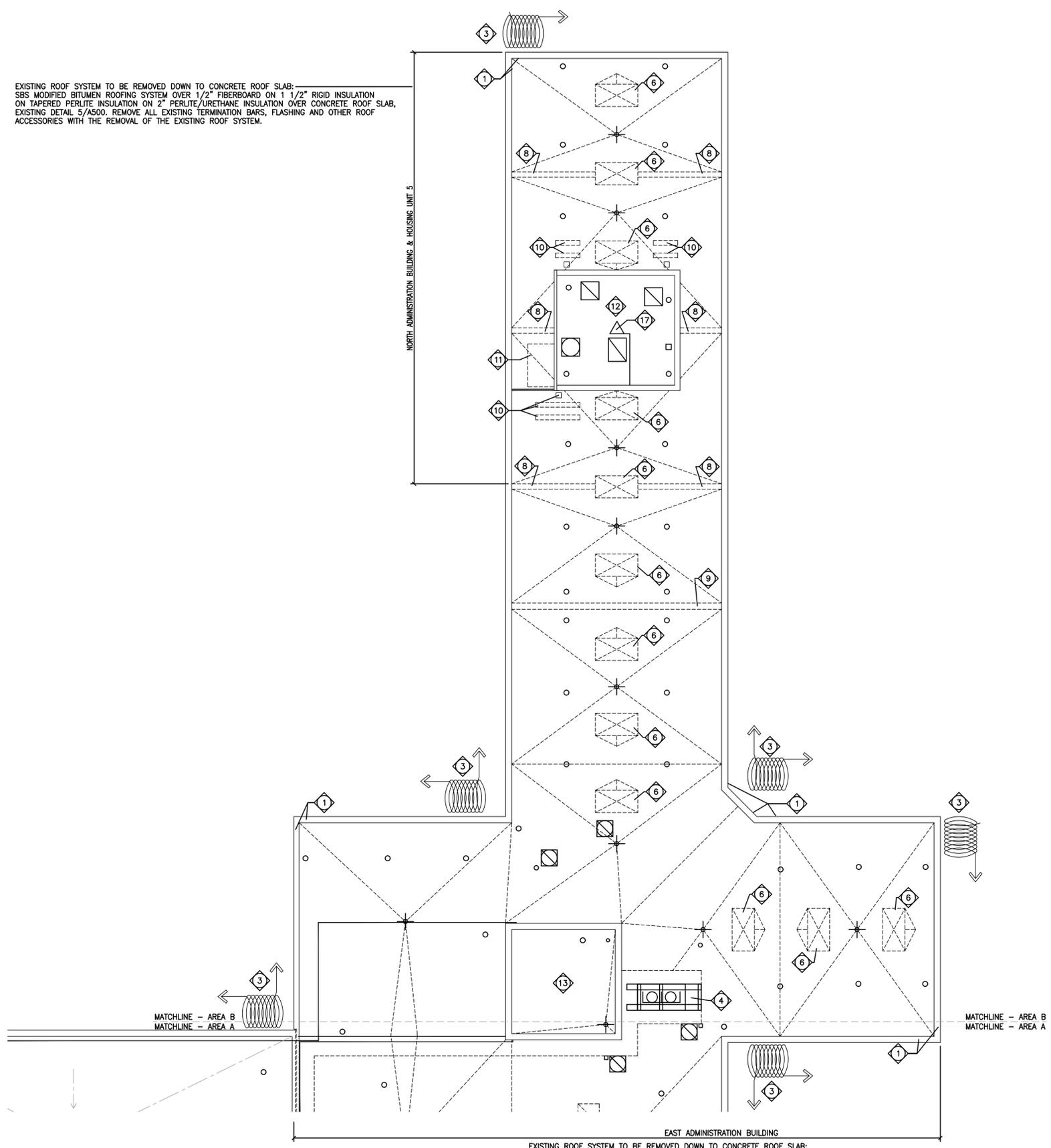
SHEET TITLE:
**DEMOLITION
ROOF PLAN -
AREA B**

SHEET NUMBER:

AD101

5 OF 20 SHEETS
11/05/2019

EXISTING ROOF SYSTEM TO BE REMOVED DOWN TO CONCRETE ROOF SLAB:
SBS MODIFIED BITUMEN ROOFING SYSTEM OVER 1/2" FIBERBOARD ON 1 1/2" RIGID INSULATION
ON TAPERED PERLITE INSULATION ON 2" PERLITE/URETHANE INSULATION OVER CONCRETE ROOF SLAB,
EXISTING DETAIL 5/A500. REMOVE ALL EXISTING TERMINATION BARS, FLASHING AND OTHER ROOF
ACCESSORIES WITH THE REMOVAL OF THE EXISTING ROOF SYSTEM.



KEY PLAN

- KEYED NOTES - DEMOLITION ROOF PLAN:**
- EXISTING BRICK MASONRY PARAPET TO REMAIN, REMOVE EXISTING SHEET METAL COPING/CAP AND FLASHING.
 - EXISTING PERIMETER FENCING BEYOND.
 - EXISTING PERIMETER BARBED WIRE TO REMAIN, COORDINATE COPING REINSTALLATION.
 - REMOVE EXISTING MECHANICAL UNIT AS REQUIRED FOR INSTALLATION OF NEW ROOFING, SEE MECHANICAL DRAWINGS FOR SCOPE OF WORK AND REINSTALLATION.
 - NOT USED
 - REMOVE EXISTING SKYLIGHT, CONCRETE CURB, ROOF FLASHING AND CRICKET, SEE STRUCTURAL DRAWINGS FOR INFILL/DEMOLITION DETAIL AND SCOPE OF WORK, SEE DETAIL 1/A502.
 - REMOVE ALL EXISTING WALKWAYS WITH DEMOLITION OF EXISTING ROOFING SYSTEM DOWN TO EXISTING DECK.
 - REMOVE EXISTING ROOF CONTROL JOINT COVER AND FLASHING.
 - REMOVE EXISTING ROOF EXPANSION JOINT COVER AND FLASHING.
 - REMOVE EXISTING UNUSED EQUIPMENT CURBS.
 - REMOVE EXISTING WOOD PLATFORM AT PENTHOUSE DOOR.
 - EXISTING PENTHOUSE BUILDING TO REMAIN, REMOVE EXISTING ROOFING SYSTEM DOWN TO METAL DECK: SBS MODIFIED BITUMEN ROOFING SYSTEM ON 1/2" FIBERBOARD OVER 1 1/2" RIGID INSULATION ON TAPERED PERLITE INSULATION ON PERLITE/URETHANE INSULATION OVER METAL ROOF DECK. EXISTING DETAIL 1/A500.
 - EXISTING PENTHOUSE BUILDING TO REMAIN, REMOVE EXISTING ROOFING SYSTEM DOWN TO METAL DECK: SBS MODIFIED BITUMEN ROOFING SYSTEM ON 1/2" FIBERBOARD OVER 1 1/2" RIGID INSULATION OVER 3" RIGID FIBER GLASS INSULATION ON METAL ROOF DECK, EXISTING DETAIL 2/A500.
 - NOT USED
 - NOT USED
 - NOT USED
 - REMOVE EXIST. TRIPOD CAMERA SUPPORT, COORDINATE WITH FACILITY FOR ALL CAMERA REMOVAL/REINSTALLATION.

- GENERAL NOTES - DEMOLITION ROOF PLAN:**
- THE CONTRACTOR IS TO VISIT THE SITE DURING THE BIDDING PERIOD AND IS TO ADVISE THE ARCHITECT OF ANY SITUATION OR DISCREPANCY WHICH WILL NOT ALLOW SUCCESSFUL COMPLETION OF THE WORK. THE ARCHITECT'S DECISION WILL CLARIFY THE SCOPE OF WORK.
 - INFORMATION TAKEN FROM OWNER PROVIDED AS-BUILT DOCUMENTS AND SITE INVESTIGATION. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION OF NEW WORK.
 - PRIOR TO BIDDING, CONTRACTOR IS REQUIRED TO BE FAMILIAR WITH THE STATUS OF THE EXISTING ROOF AND VERIFY ALL INFORMATION INDICATED IN THE DOCUMENTS.
 - CONTRACTOR SHALL VERIFY LOCATION OF ROOF DRAINS AND ROOF SLOPES FOR PROPER DRAINAGE OF ROOF, SKYLIGHT OPENINGS TO BE INFILLED, EXHAUST FANS, PITCH PANS, VENT STACKS, AND ALL MECHANICAL, PLUMBING, ELECTRICAL, LIGHTNING PROTECTION AND SECURITY ITEMS THROUGH OR ON THE ROOF.
 - THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING ITEMS TO REMAIN DURING DEMOLITION AND NEW CONSTRUCTION.
 - PATCH EXISTING TO MATCH ADJACENT MATERIALS WERE DEMOLITION AND NEW CONSTRUCTION OCCUR.
 - ALL DIMENSIONS REQUIRED FOR WORK SHALL BE VERIFIED BY CONTRACTOR IN THE FIELD PRIOR TO WORK.
 - ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, CLEANED AND CONDITIONED AS DIRECTED BY THE MANUFACTURER, UNLESS INDICATED OTHERWISE.
 - CURRENT STANDARDS OF ROOFING INSTALLATION, CONSTRUCTION AND WATER-PROOFING, NRCA AND ASHRAE APPLY TO THE PERFORMANCE AND DETAILS OF ROOFING CONSTRUCTION INDICATED IN THESE DOCUMENTS.
 - THE CONTRACTOR SHALL COORDINATE WITH THE FACILITY TO ESTABLISH PROCEDURES FOR THE CONTROLLED ENTRY OF MEN AND MATERIALS INTO THE WORK AREA AND SHALL COMPLY WITH ALL RULES AND REGULATIONS ESTABLISHED BY THE FACILITY. THE INTERRUPTION OF SECURITY AND COMMUNICATIONS WILL NOT BE PERMITTED. CONTRACTOR SHALL INFORM AND COORDINATE WITH SECURITY OFFICIALS 48 HOURS IN ADVANCE OF ANY WORK RELATED TO SECURITY OR COMMUNICATIONS.
 - FOR MECHANICAL, ELECTRICAL AND PLUMBING SCOPE OF WORK SEE ME DRAWINGS.
 - CONTRACTOR TO SCHEDULE/COORDINATE ALL UTILITY SHUT-DOWNS WITH THE FACILITY 48 HOURS IN ADVANCE.
 - SEE MED DRAWINGS FOR EQUIPMENT TO BE REMOVED AND SCOPE OF WORK FOR EQUIPMENT REINSTALLATION.

EXISTING ROOF SYSTEM TO BE REMOVED DOWN TO CONCRETE ROOF SLAB:
SBS MODIFIED BITUMEN ROOFING SYSTEM OVER 1/2" FIBERBOARD ON 1 1/2" RIGID INSULATION OVER SLOPED
LIGHT WEIGHT CONCRETE DECK ON 3" RIGID FIBER GLASS INSULATION ON CONCRETE ROOF SLAB, EXISTING DETAIL 6/A500.
REMOVE ALL EXISTING TERMINATION BARS, FLASHING AND OTHER ROOF ACCESSORIES WITH THE REMOVAL OF THE
EXISTING ROOF SYSTEM.





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CORRECTIONS

18701 OLD HIGHWAY 66
PACIFIC, MISSOURI 63069

REPLACE ROOF
INCLUDING SKY LIGHT
ADMINISTRATION BLDG &
HOUSING UNIT 5
MISSOURI EASTERN
CORRECTIONAL CENTER

PACIFIC MISSOURI

PROJECT # C1916-01
SITE # 7007
ASSET # 9327007008

REVISION: -
DATE: -
REVISION: -
DATE: -
REVISION: -
DATE: -
ISSUE DATE: NOVEMBER 5, 2019

CAD DWG FILE: A-100
DRAWN BY: EL
CHECKED BY: EL
DESIGNED BY: EL

SHEET TITLE:

ROOF PLAN -
AREA A

SHEET NUMBER:

A100

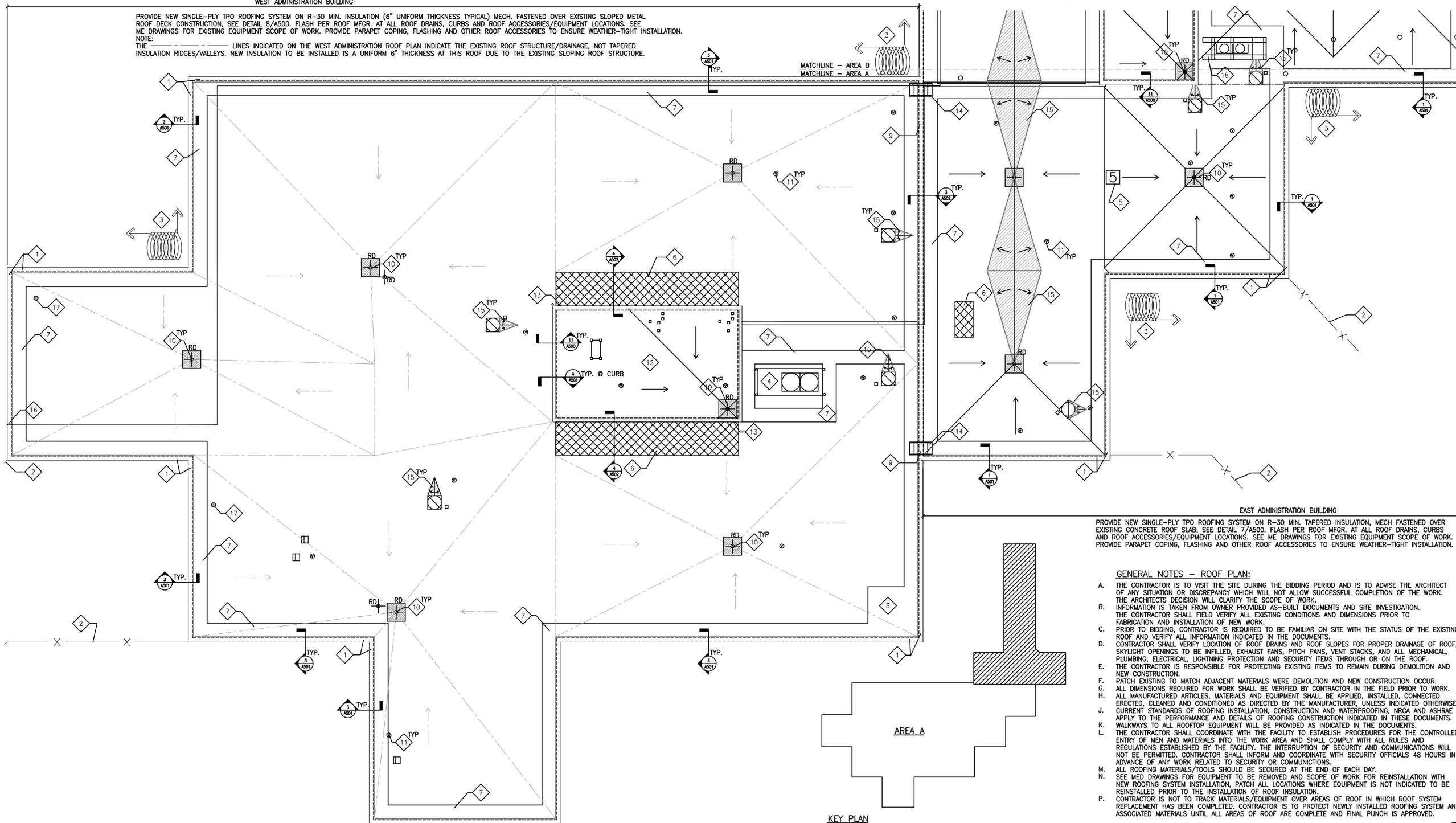
6 OF 20 SHEETS
11/05/2019

KEYED NOTES - ROOF PLAN:

1. EXISTING BRICK MASONRY PARAPET TO REMAIN, PROVIDE NEW SHEET METAL COPING/CAP AND FLASHING.
2. EXISTING PERIMETER FENCING BEYOND.
3. EXISTING PERIMETER BARBED WIRE TO REMAIN. COORDINATE WITH COPING/CAP INSTALLATION.
4. REINSTALL EXISTING MECHANICAL UNIT AS REQUIRED FOR INSTALLATION OF NEW ROOFING. SEE MECHANICAL DRAWINGS FOR SCOPE OF WORK. FLASH EQUIPMENT CURBS PER NRCA AND ROOFING MFRG RECOMMENDATIONS. REINSTALL EXISTING BUILDING SIGNAGE. PROVIDE TPO PROTECTIVE LAYER BETWEEN SIGNAGE AND NEW ROOF INSTALLATION. CONTRACTOR TO INSTALL SIGNAGE PER MANUFACTURER'S RECOMMENDATIONS SO AS NOT TO VOID ROOFING WARRANTY OR COMPROMISE ROOFING SYSTEM. SPOT WELD PER MANUFACTURER'S RECOMMENDATIONS.
5. INFILL EXIST. SKYLIGHT LOCATIONS, SEE STRUCTURAL DRAWINGS FOR INFILL DETAILS AND SCOPE OF WORK.
6. MATCH EXISTING PLASTER FINISH/COLOR AT EXISTING INTERIOR CORRIDOR CEILING COFFERS. SEE DETAIL 1/A502.
7. NEW WALKWAY PER ROOFING MANUFACTURER, PROVIDE ALONG ROOF PERIMETER AND AROUND ROOF EQUIPMENT AS INDICATED. ADHERE TO MEMBRANE ROOFING SYSTEM PER MANUFACTURER'S DETAILS/RECOMMENDATIONS. PROVIDE NEW 8'x8' AREA OF WALKWAY PROTECTION, ADHERE TO MEMBRANE ROOFING SYSTEM PER MFRG. DETAILS/RECOMMENDATIONS.
9. INSTALL NEW ROOF EXPANSION JOINT COVER AND FLASHING AT EXISTING JOINT CURBS, SEE DETAIL 3/A502.
10. RD (TYP) - EXISTING ROOF DRAIN LOCATIONS TO REMAIN, SEE ME DRAWINGS FOR SCOPE OF WORK. COORDINATE ROOF DRAIN ELEVATION WITH NEW ROOFING SYSTEM ADJUST ROOF DRAIN ELEVATION AS REQUIRED FOR NEW ROOFING SYSTEM INSTALLATION TO PROVIDE PROPER DRAINAGE. FLASH AROUND EXISTING ROOF DRAIN WITH INSTALLATION OF NEW ROOF SYSTEM. PROVIDE 1/2" PER FOOT SLOPE SUMP AT 4'x4' AREA AROUND ROOF DRAIN LOCATIONS, SEE DETAIL 10/A500.
11. V (TYP) - EXISTING VENT LOCATIONS TO REMAIN, PROVIDE NEW BOOT/FLASHING WITH INSTALLATION OF NEW ROOFING SYSTEM, PER NRCA, SEE MECHANICAL DRAWINGS FOR SCOPE OF WORK.
12. EXIST. PENTHOUSE BLDG. TO REMAIN, NEW TPO ROOFING SYSTEM WITH MIN. R-10 TAPERED INSULATION OVER MTL. DECK. PROVIDE NEW ROOF DRAIN AND EQUIPMENT CURB FLASHING WITH NEW ROOFING SYSTEM. SEE DETAIL 3/A500.
13. PROVIDE NEW INSULATED METAL WALL PANEL SYSTEM TO MATCH EXISTING PENTHOUSE AT AREA LOBBY SKY LIGHT WAS REMOVED AND PENTHOUSE WALL IS EXPOSED TO THE EXTERIOR, PROVIDE METAL WALL PANEL FLASHING, CORNERS, AND CLOSURE PANELS PER METAL WALL PANEL MFRG. FOR SEAMLESS AND WATERTIGHT INSTALLATION, SEE DETAIL 4/A502.
14. PREMANUFACTURED METAL CROSSOVER STAIR AND RAILINGS AT EXPANSION JOINT LOCATIONS AS INDICATED. FIELD VERIFY REQUIRED TREADS/RISERS AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE PROTECTIVE MEMBRANE LAYER BELOW STAIR LOCATIONS SO AS NOT TO VOID ROOFING SYSTEM WARRANTY.
15. CRICKET LOCATION, 1/2" PER FOOT SLOPE, COORDINATE WITH WALKWAY LOCATIONS TO AVOID TRIPPING HAZARDS.
16. COORDINATE NEW COPING INSTALLATION WITH EXISTING GAS LINE IN THIS AREA OF THE ROOF.
17. PROVIDE NEW 2" CONDUIT THROUGH ROOF FOR FUTURE FACILITY USE. FIELD VERIFY/COORDINATE EXACT LOCATION WITH FACILITY, COORDINATE WITH EXISTING CEILING CONSTRUCTION BELOW, CAP CONDUIT WITH WEATHERHEAD AND FLASH WATER TIGHT PER NRCA.
18. PROVIDE NEW CURB SUPPORT AT EXISTING MECHANICAL UNIT UNISTRUT SUPPORT SYSTEM, FLASH CURB AT NEW ROOFING SYSTEM INSTALLATION PER NRCA.

WEST ADMINISTRATION BUILDING

PROVIDE NEW SINGLE-PLY TPO ROOFING SYSTEM ON R-30 MIN. INSULATION (6" UNIFORM THICKNESS TYPICAL) MECH. FASTENED OVER EXISTING SLOPED METAL ROOF DECK CONSTRUCTION. SEE DETAIL 8/A500. FLASH PER ROOF MFRG. AT ALL ROOF DRAINS, CURBS AND ROOF ACCESSORIES/EQUIPMENT LOCATIONS. SEE ME DRAWINGS FOR EXISTING EQUIPMENT SCOPE OF WORK. PROVIDE PARAPET COPING, FLASHING AND OTHER ROOF ACCESSORIES TO ENSURE WEATHER-TIGHT INSTALLATION.
NOTE:
THE _____ LINES INDICATED ON THE WEST ADMINISTRATION ROOF PLAN INDICATE THE EXISTING ROOF STRUCTURE/DRAINAGE, NOT TAPERED INSULATION RIDGES/VALLEYS. NEW INSULATION TO BE INSTALLED IS A UNIFORM 6" THICKNESS AT THIS ROOF DUE TO THE EXISTING SLOPING ROOF STRUCTURE.



EAST ADMINISTRATION BUILDING
PROVIDE NEW SINGLE-PLY TPO ROOFING SYSTEM ON R-30 MIN. TAPERED INSULATION, MECH FASTENED OVER EXISTING CONCRETE ROOF SLAB, SEE DETAIL 7/A500. FLASH PER ROOF MFRG. AT ALL ROOF DRAINS, CURBS AND ROOF ACCESSORIES/EQUIPMENT LOCATIONS. SEE ME DRAWINGS FOR EXISTING EQUIPMENT SCOPE OF WORK. PROVIDE PARAPET COPING, FLASHING AND OTHER ROOF ACCESSORIES TO ENSURE WEATHER-TIGHT INSTALLATION.

GENERAL NOTES - ROOF PLAN:

- A. THE CONTRACTOR IS TO VISIT THE SITE DURING THE BIDDING PERIOD AND IS TO ADVISE THE ARCHITECT OF ANY SITUATION OR DISCREPANCY WHICH WILL NOT ALLOW SUCCESSFUL COMPLETION OF THE WORK. THE ARCHITECT'S DECISION WILL CLARIFY THE SCOPE OF WORK.
- B. INFORMATION IS TAKEN FROM OWNER PROVIDED AS-BUILT DOCUMENTS AND SITE INVESTIGATION. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION OF NEW WORK.
- C. PRIOR TO BIDDING, CONTRACTOR IS REQUIRED TO BE FAMILIAR ON SITE WITH THE STATUS OF THE EXISTING ROOF AND VERIFY ALL INFORMATION INDICATED IN THE DOCUMENTS.
- D. CONTRACTOR SHALL VERIFY LOCATION OF ROOF DRAINS AND ROOF SLOPES FOR PROPER DRAINAGE OF ROOF. SKYLIGHT OPENINGS TO BE INFILLED, EXHAUST FANS, PITCH PANS, VENT STACKS, AND ALL MECHANICAL, PLUMBING, ELECTRICAL, LIGHTNING PROTECTION AND SECURITY ITEMS THROUGH OR ON THE ROOF.
- E. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING ITEMS TO REMAIN DURING DEMOLITION AND NEW CONSTRUCTION.
- F. PATCH EXISTING TO MATCH ADJACENT MATERIALS WHERE DEMOLITION AND NEW CONSTRUCTION OCCUR.
- G. ALL DIMENSIONS REQUIRED FOR WORK SHALL BE VERIFIED BY CONTRACTOR IN THE FIELD PRIOR TO WORK.
- H. ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, CLEANED AND CONDITIONED AS DIRECTED BY THE MANUFACTURER, UNLESS INDICATED OTHERWISE.
- J. CURRENT STANDARDS OF ROOFING INSTALLATION, CONSTRUCTION AND WATERPROOFING, NRCA AND ASHRAE APPLY TO THE PERFORMANCE AND DETAILS OF ROOFING CONSTRUCTION INDICATED IN THESE DOCUMENTS.
- K. WALKWAYS TO ALL ROOFTOP EQUIPMENT WILL BE PROVIDED AS INDICATED IN THE DOCUMENTS.
- L. THE CONTRACTOR SHALL COORDINATE WITH THE FACILITY TO ESTABLISH PROCEDURES FOR THE CONTROLLED ENTRY OF MEN AND MATERIALS INTO THE WORK AREA AND SHALL COMPLY WITH ALL RULES AND REGULATIONS ESTABLISHED BY THE FACILITY. THE INTERRUPTION BY SECURITY AND COMMUNICATIONS WILL NOT BE PERMITTED. CONTRACTOR SHALL INFORM AND COORDINATE WITH SECURITY OFFICIALS 48 HOURS IN ADVANCE OF ANY WORK RELATED TO SECURITY OR COMMUNICATIONS.
- M. ALL ROOFING MATERIALS/TOOLS SHOULD BE SECURED AT THE END OF EACH DAY.
- N. SEE ME DRAWINGS FOR EQUIPMENT TO BE REMOVED AND SCOPE OF WORK FOR REINSTALLATION WITH NEW ROOFING SYSTEM INSTALLATION, PATCH ALL LOCATIONS WHERE EQUIPMENT IS NOT INDICATED TO BE REINSTALLED PRIOR TO THE INSTALLATION OF ROOF INSULATION.
- P. CONTRACTOR IS NOT TO TRACK MATERIALS/EQUIPMENT OVER AREAS OF ROOF IN WHICH ROOF SYSTEM REPLACEMENT HAS BEEN COMPLETED. CONTRACTOR IS TO PROTECT NEWLY INSTALLED ROOFING SYSTEM AND ASSOCIATED MATERIALS UNTIL ALL AREAS OF ROOF ARE COMPLETE AND FINAL PUNCH IS APPROVED.

KEY PLAN





STATE OF MISSOURI
CERTIFICATE OF AUTHORITY #2018019473

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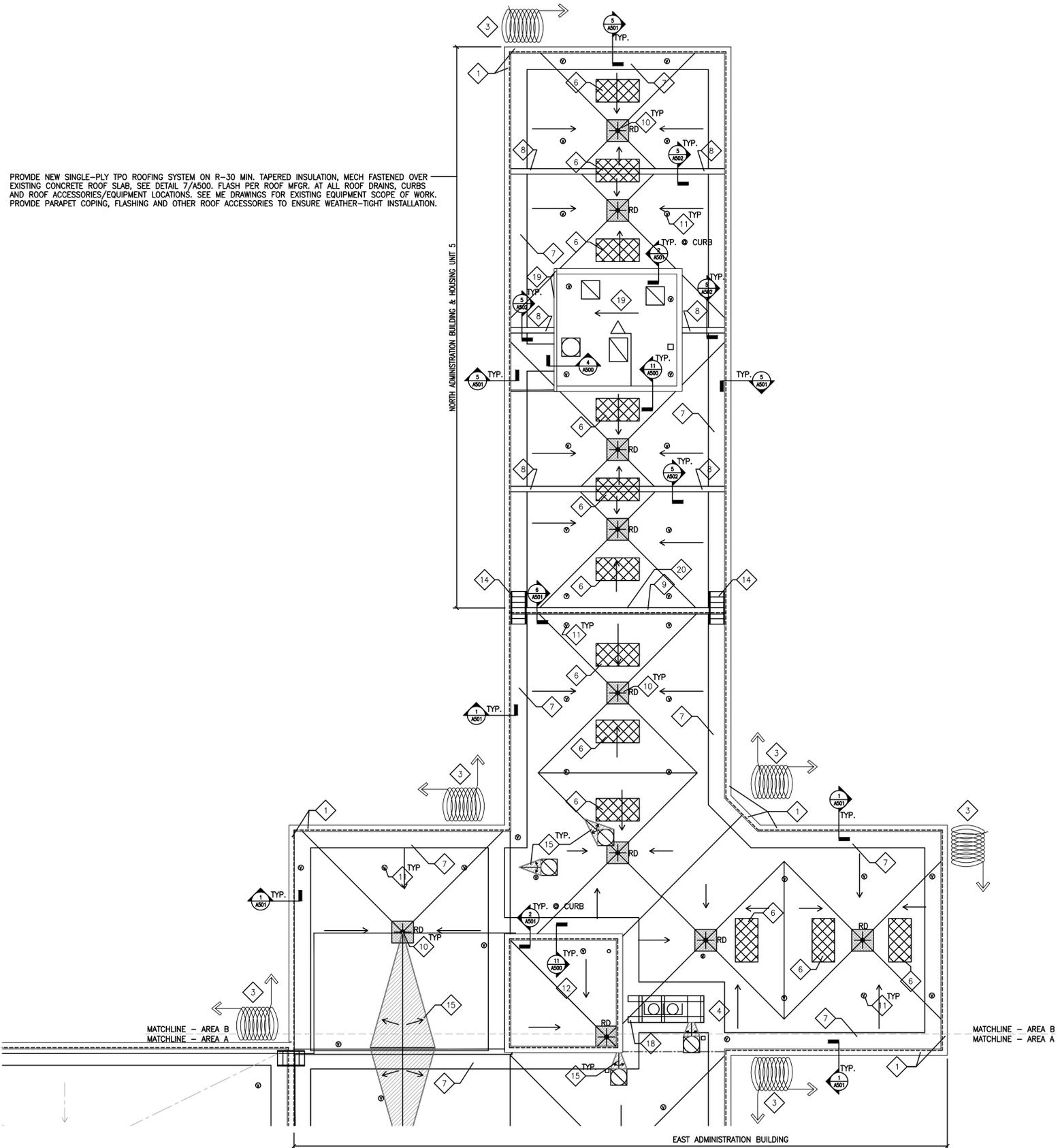
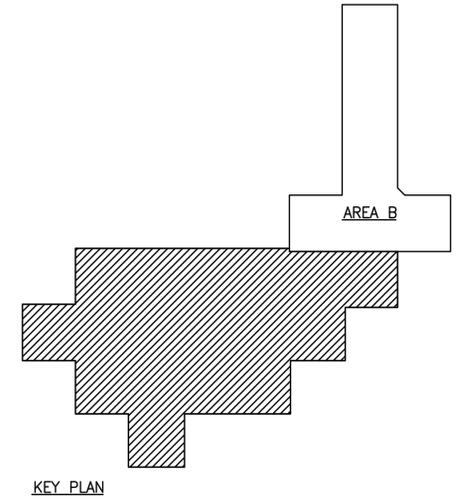
SHEET TITLE:

ROOF PLAN -
AREA B

SHEET NUMBER:

A101

7 OF 20 SHEETS
11/05/2019



PROVIDE NEW SINGLE-PLY TPO ROOFING SYSTEM ON R-30 MIN. TAPERED INSULATION, MECH FASTENED OVER EXISTING CONCRETE ROOF SLAB, SEE DETAIL 7/A500. FLASH PER ROOF MFR. AT ALL ROOF DRAINS, CURBS AND ROOF ACCESSORIES/EQUIPMENT LOCATIONS. SEE ME DRAWINGS FOR EXISTING EQUIPMENT SCOPE OF WORK. PROVIDE PARAPET COPING, FLASHING AND OTHER ROOF ACCESSORIES TO ENSURE WEATHER-TIGHT INSTALLATION.

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- NEW WALKWAY PER ROOFING MANUFACTURER, PROVIDE ALONG ROOF PERIMETER AND AROUND ROOF EQUIPMENT AS INDICATED, ADHERE TO MEMBRANE ROOFING SYSTEM PER MANUFACTURER'S DETAILS/RECOMMENDATIONS.
- PROVIDE NEW 8'x8' AREA OF WALKWAY PROTECTION, ADHERE TO MEMBRANE ROOFING SYSTEM PER MFR. DETAILS/RECOMMENDATIONS.
- INSTALL NEW ROOF EXPANSION JOINT COVER AND FLASHING AT EXISTING JOINT CURBS. SEE DETAIL 6/A501.
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- NOT USED
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- EXIST. PENTHOUSE BLDG. TO REMAIN, NEW TPO ROOFING SYSTEM WITH MIN. R-10 TAPERED INSULATION OVER MTL DECK. PROVIDE NEW EQUIPMENT CURB FLASHING WITH NEW ROOFING SYSTEM. SEE DETAIL 3/A500. PROVIDE NEW GUTTER AND DOWNSPOUT WITH NEW ROOFING SYSTEM INSTALLATION, MATCH EXISTING.
- PATCH EXISTING EXPANSION JOINT CURB AT LOCATION JUNCTION BOX WAS REMOVED, MATCH EXISTING.

GENERAL NOTES - ROOF PLAN:

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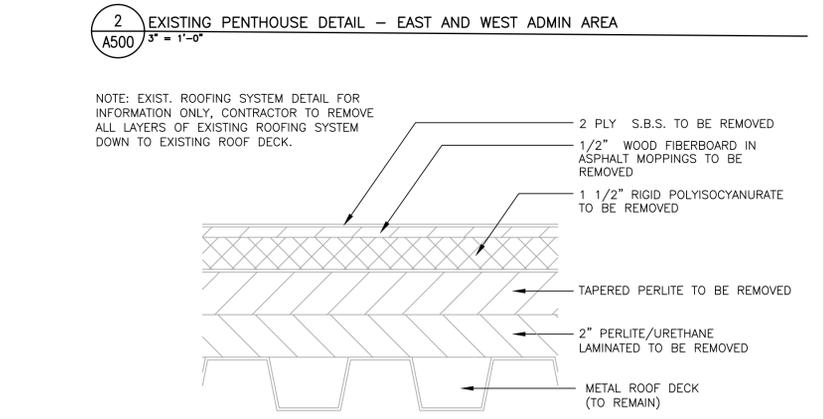
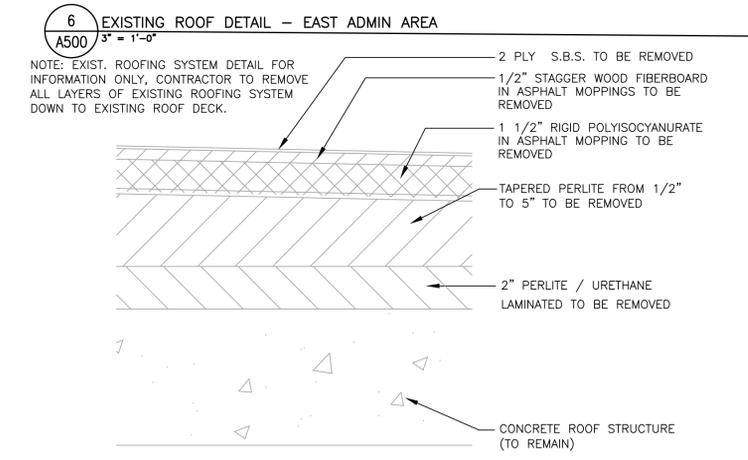
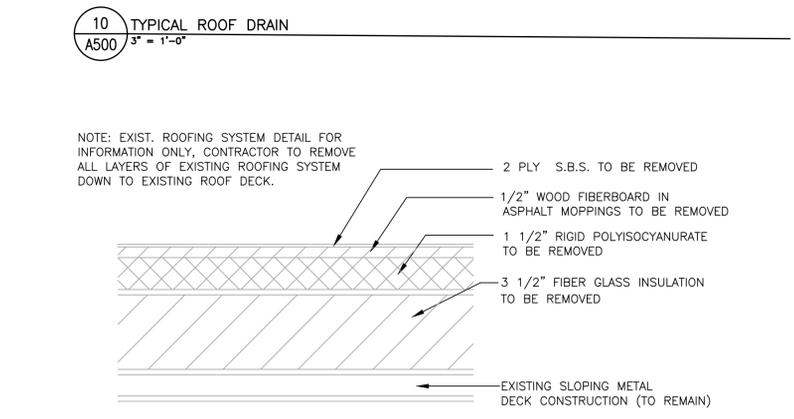
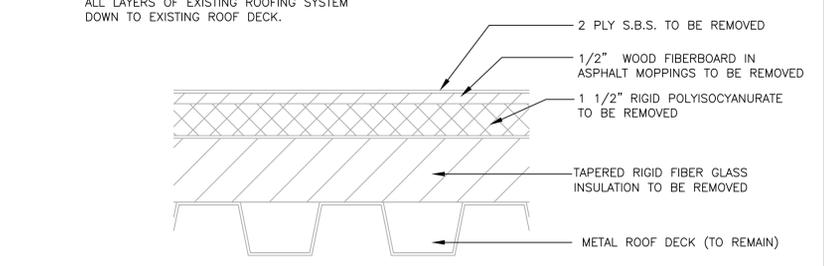
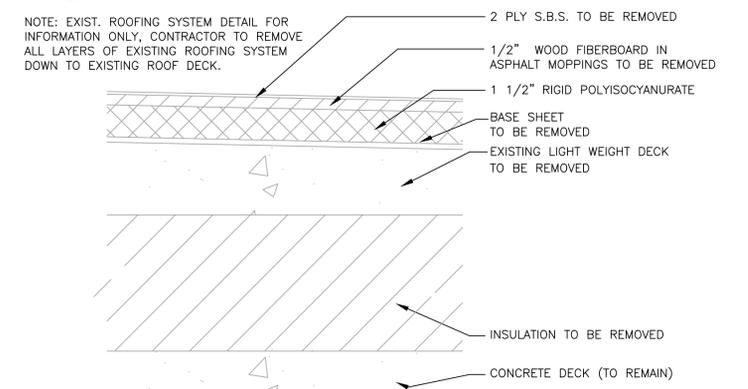
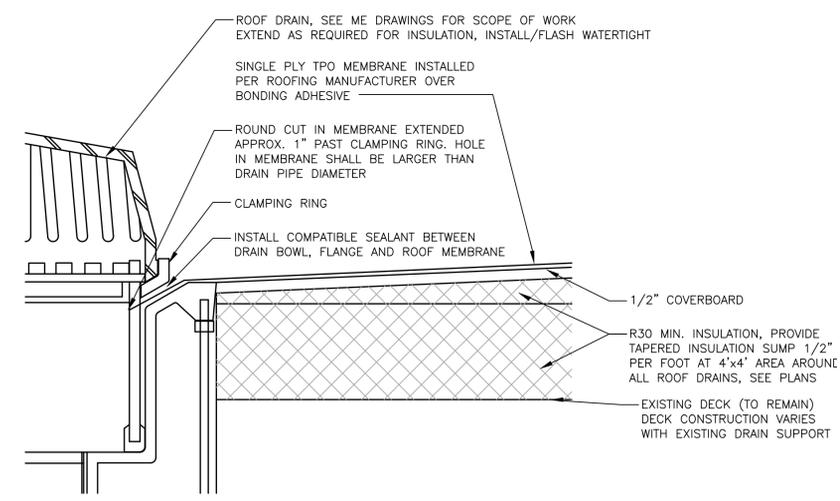
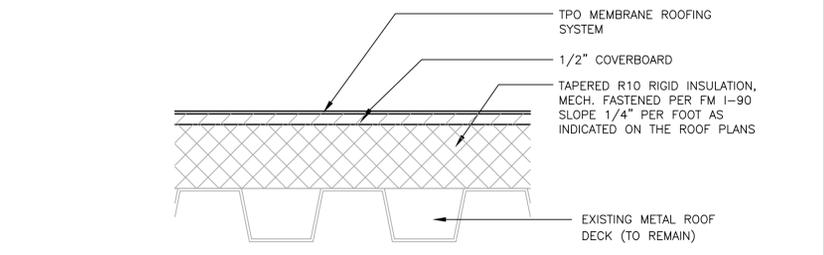
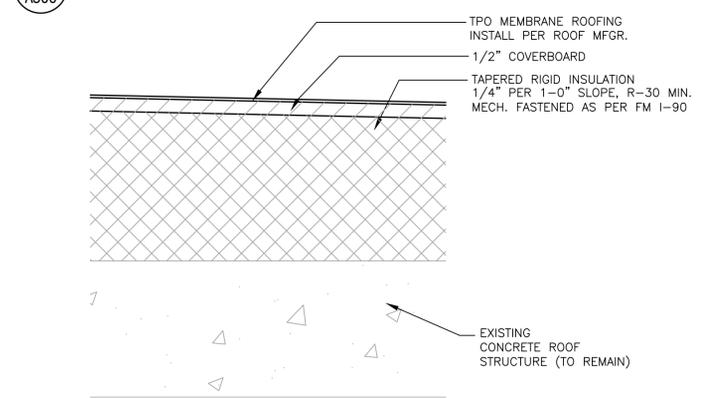
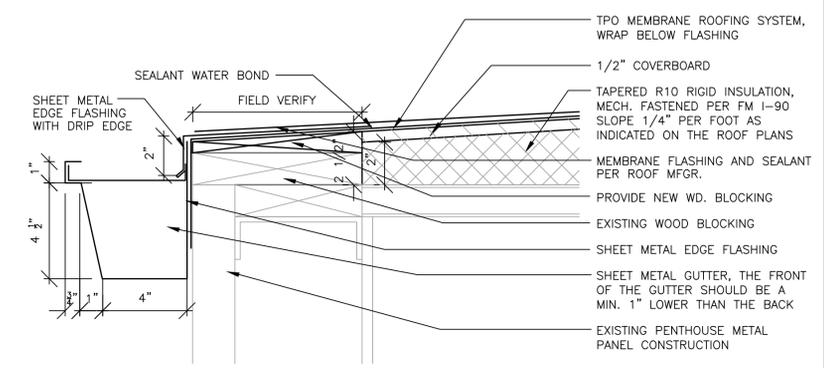
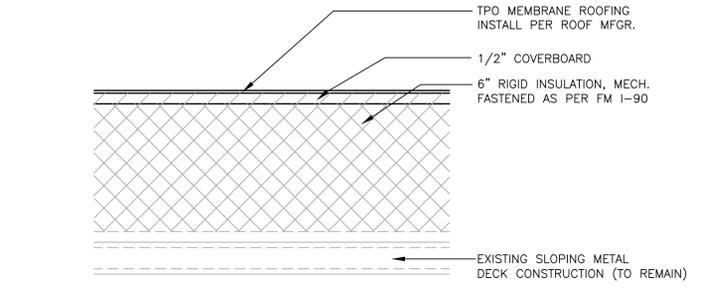
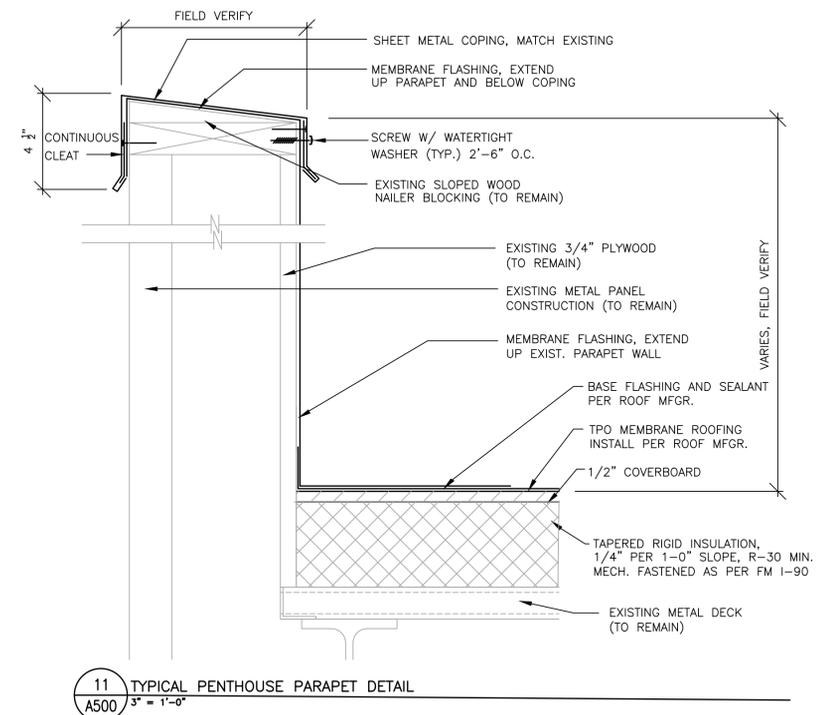
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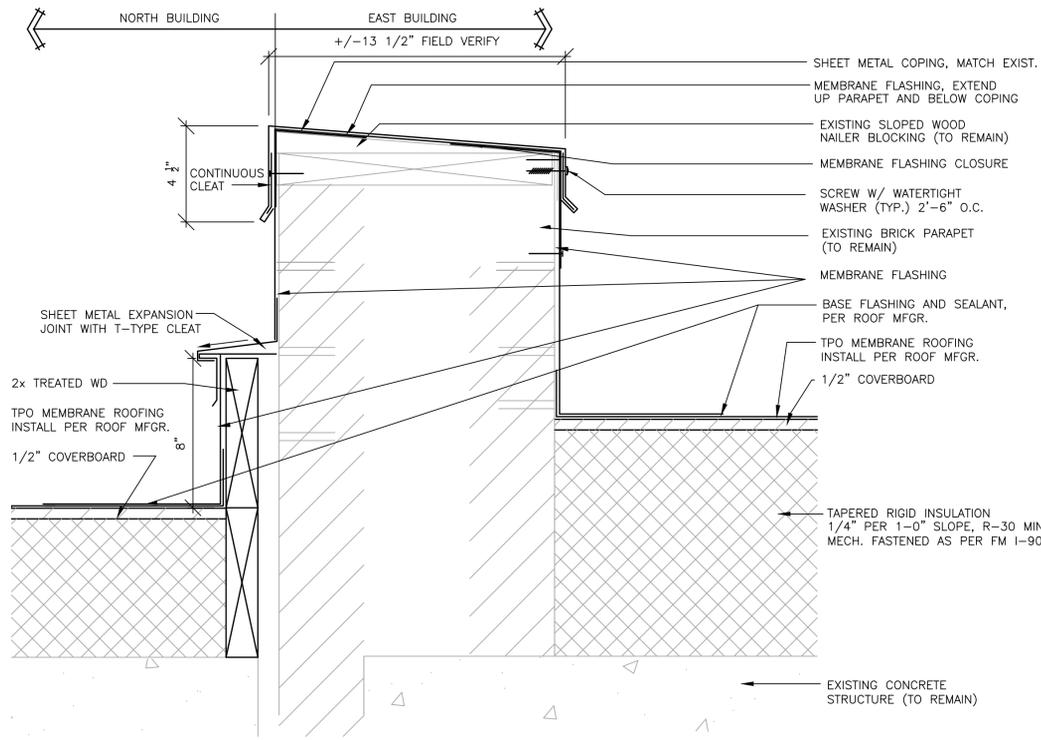
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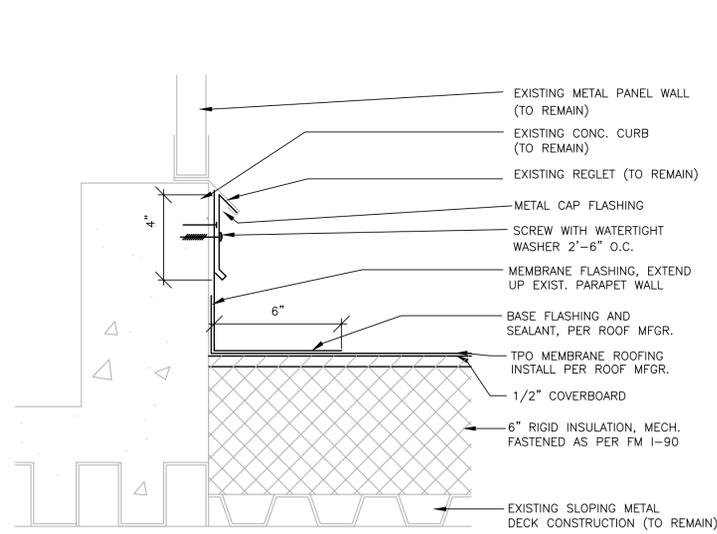
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ROOF DETAILS

SHEET NUMBER:
A500
8 OF 20 SHEETS
11/05/2019

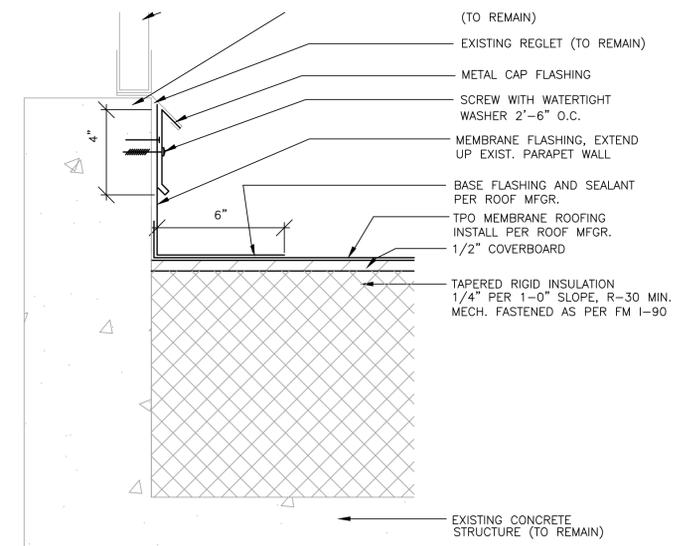




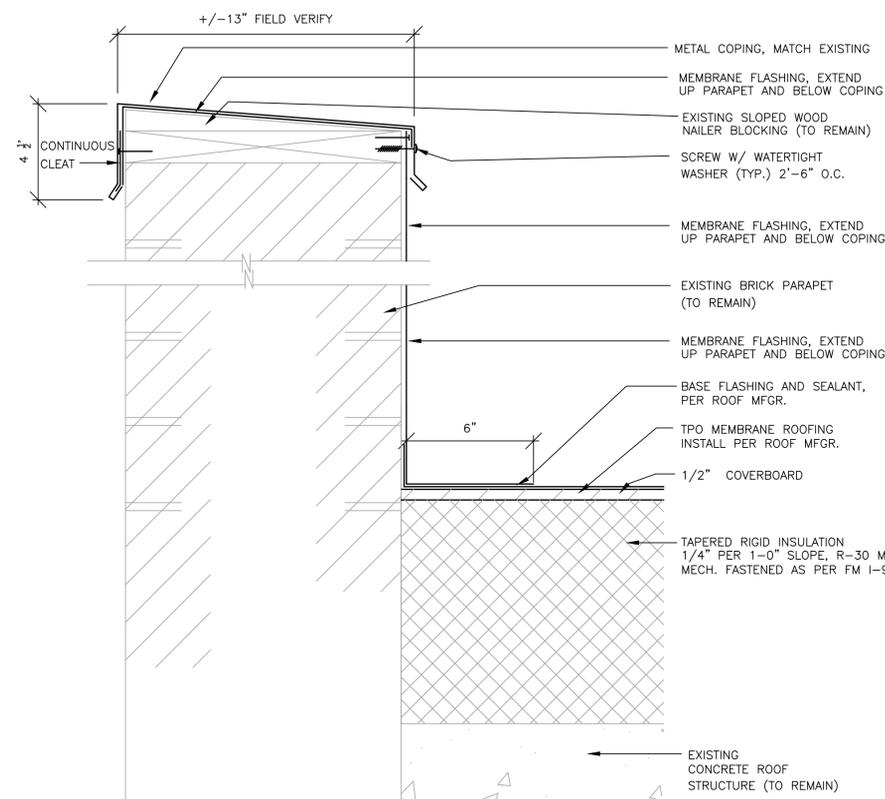
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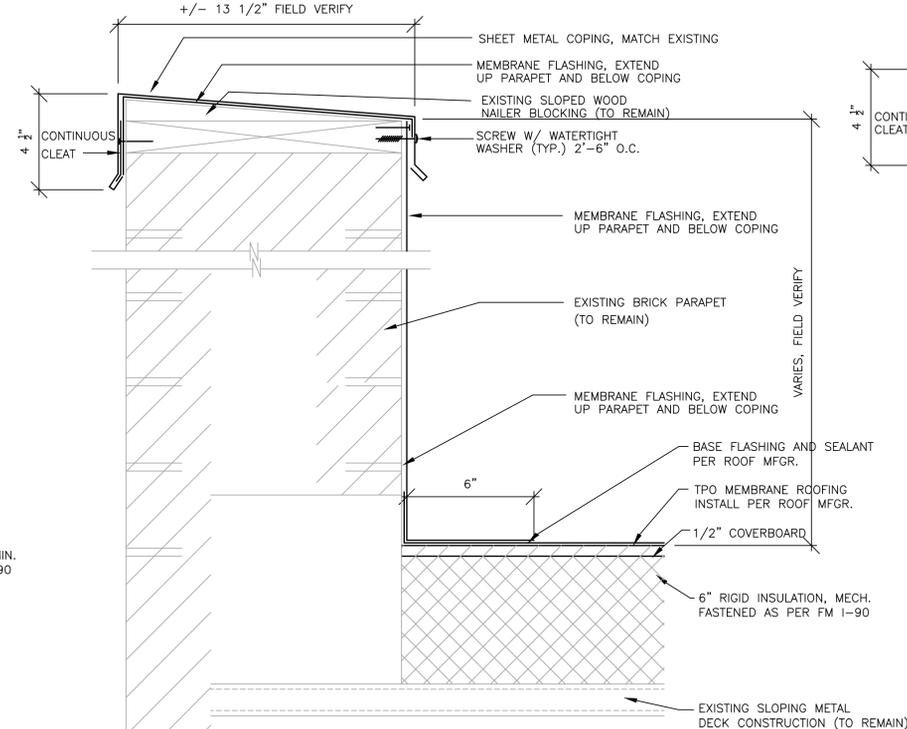
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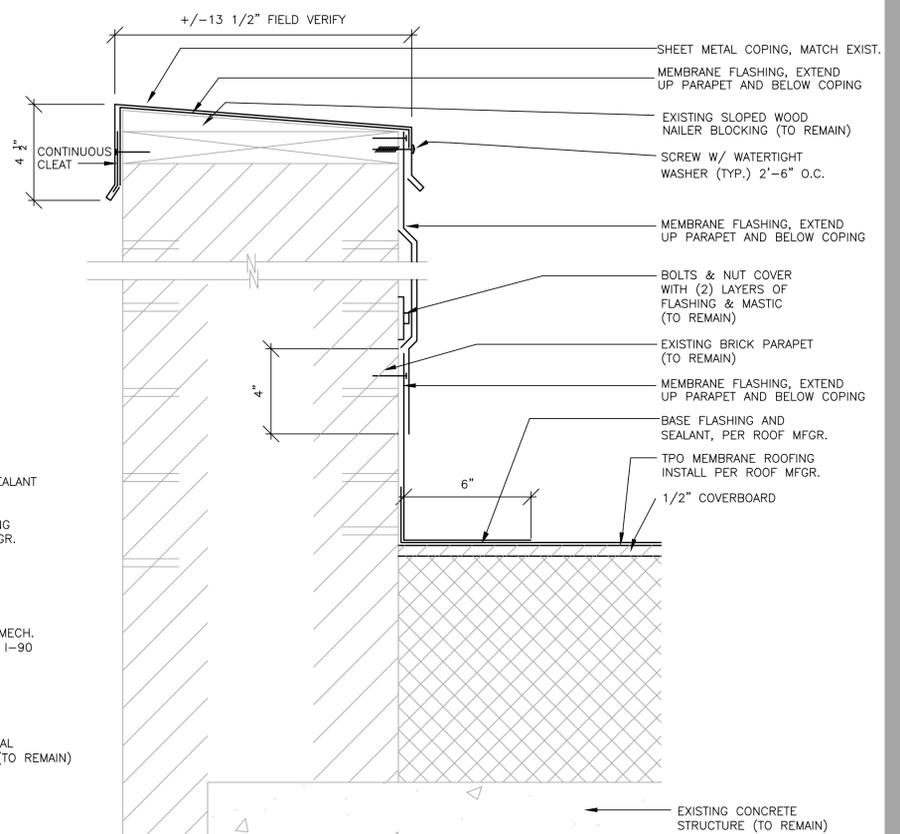
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A501 3\"/>



5 PARAPET DETAIL - NORTH ADMIN AREA
A501 3\"/>



3 PARAPET DETAIL - WEST ADMIN AREA
A501 3\"/>



1 PARAPET DETAIL - EAST ADMIN AREA
A501 3\"/>



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DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION
DEPARTMENT OF
CORRECTIONS

18701 OLD HIGHWAY 66
PACIFIC, MISSOURI 63069

REPLACE ROOF
INCLUDING SKY LIGHT
ADMINISTRATION BLDG &
HOUSING UNIT 5
MISSOURI EASTERN
CORRECTIONAL CENTER

PACIFIC MISSOURI

PROJECT # C1916-01
SITE # 7007
ASSET # 9327007008

REVISION: -
DATE: -
REVISION: -
DATE: -
REVISION: -
DATE: -
ISSUE DATE: NOVEMBER 5, 2019

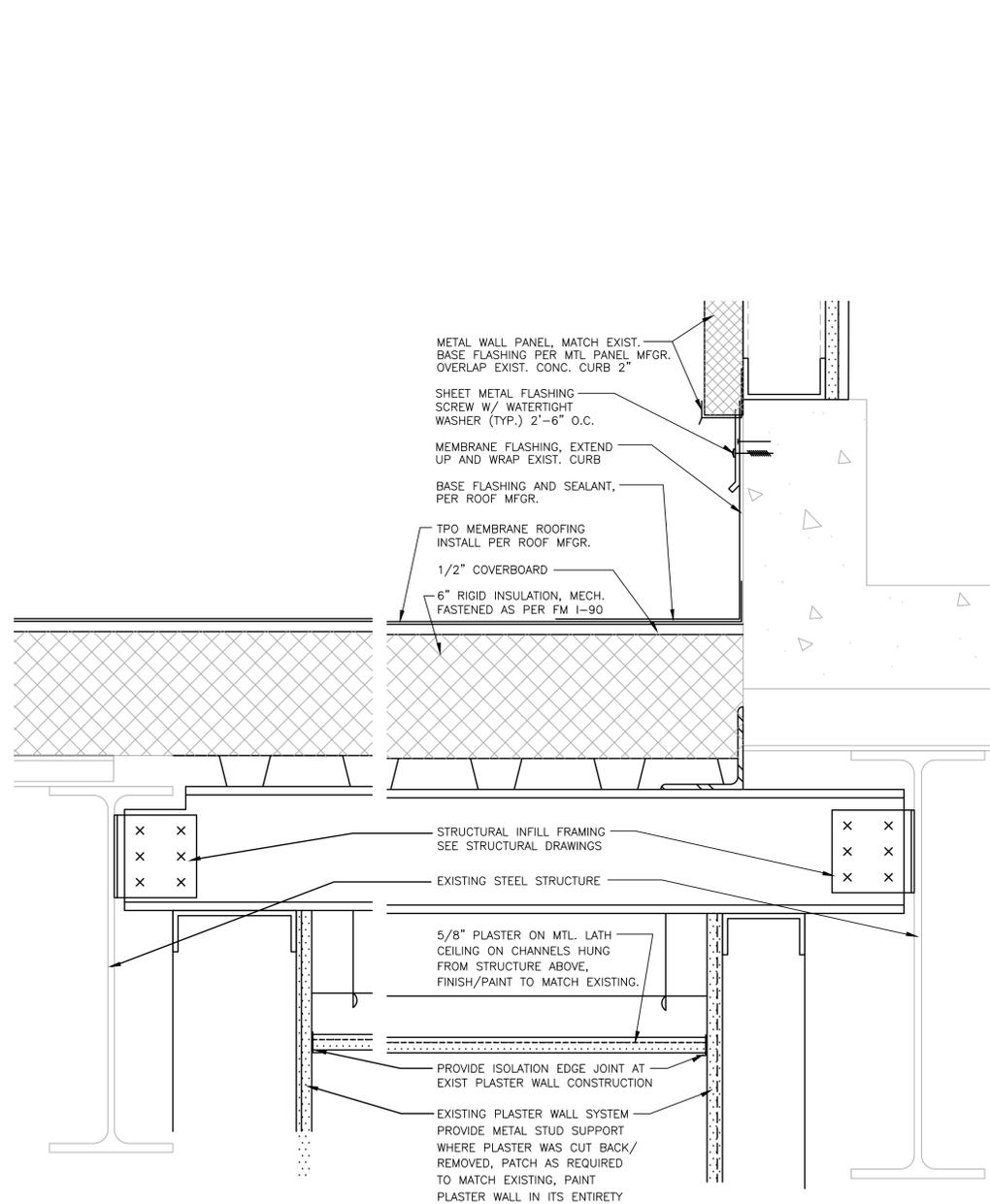
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CHECKED BY: EL
DESIGNED BY: EL

SHEET TITLE:
ROOF DETAILS

SHEET NUMBER:

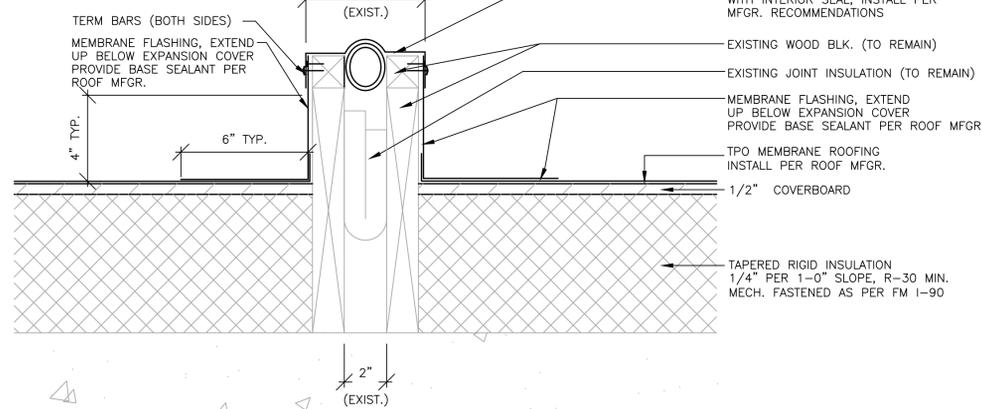
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10 OF 20 SHEETS
11/05/2019

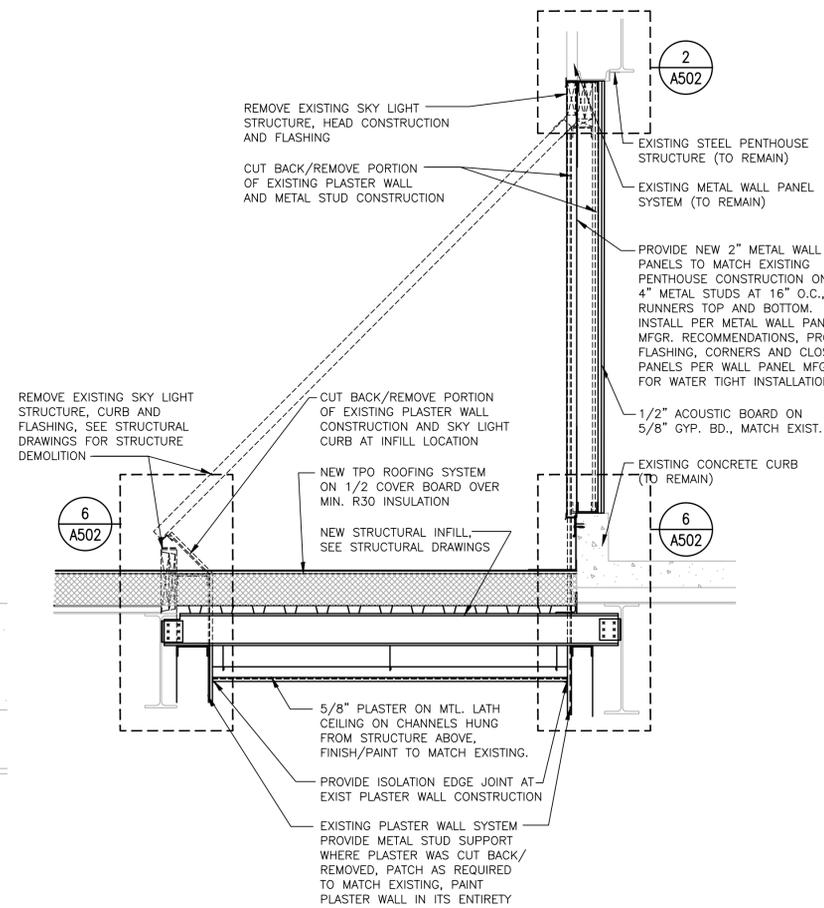


6 SKYLIGHT INFILL DETAIL AT PENTHOUSE/LOBBY
3' = 1'-0"

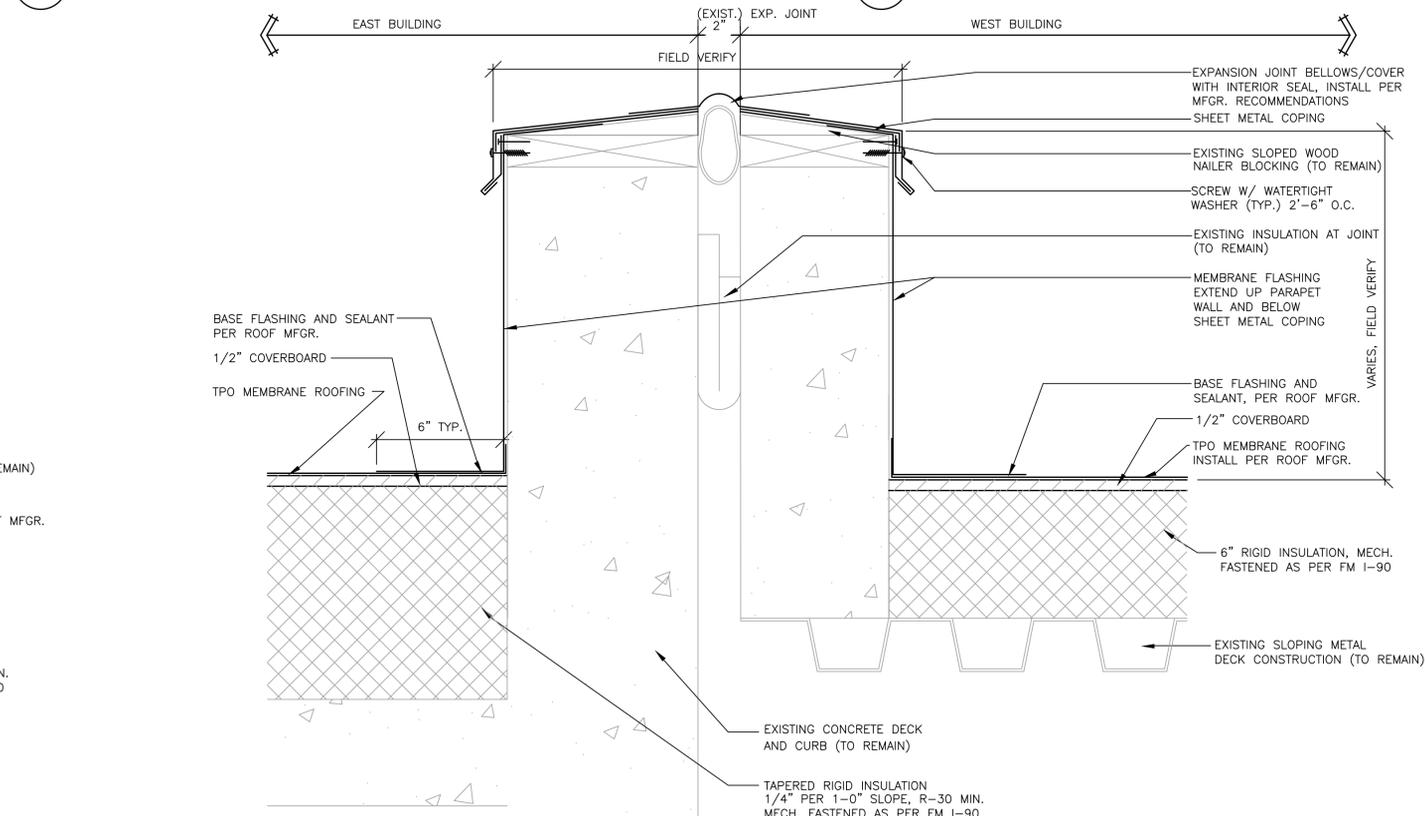
NOTE: AT LOCATIONS WHERE SKY LIGHTS ARE BEING INFILLED, PROVIDE NEW WOOD BLOCKING/CURB TO MATCH EXISTING, PRIOR TO INSTALLING NEW BELLOWS, FLASHING AND ROOF MEMBRANE.



5 CONTROL JOINT DETAIL - NORTH ADMIN AREA
3' = 1'-0"

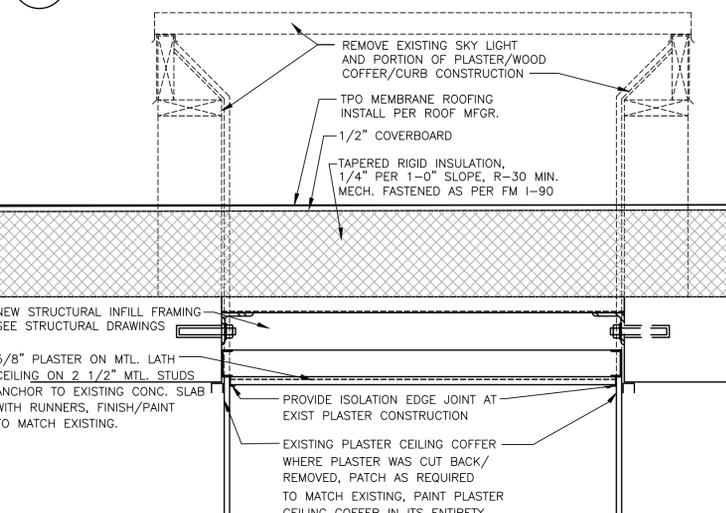


4 SKYLIGHT INFILL DETAIL AT LOBBY SKYLIGHT
3/4" = 1'-0"



3 ROOF DETAIL - EAST ADMIN AREA
3' = 1'-0"

2 SKYLIGHT INFILL DETAIL AT PENTHOUSE WALL
3' = 1'-0"



1 SKYLIGHT INFILL DETAIL
1 1/2" = 1'-0"

DESIGN CRITERIA AND LOADS

- STRUCTURE HAS BEEN DESIGNED TO COMPLY WITH:
IBC 2018
ASCE/SEI 7-16
ACI 318-14
AWS D1.1
AISI S100
- RISK CATEGORY III
- SEISMIC:
SEISMIC DESIGN CATEGORY D
IMPORTANCE FACTOR 1.25
SOIL CLASSIFICATION D (ASSUMED)
- WIND:
BASIC WIND SPEED 115 MPH
IMPORTANCE FACTOR 1.15
EXPOSURE CLASS C
NET ROOF UPLIFT PRESSURE 15 PSF [L.C. 0.9DL + 1.0WL]
- LIVE LOADS:
TYPICAL ROOF 20 PSF (REDUCIBLE)
- SNOW:
GROUND SNOW 20 PSF
SNOW EXPOSURE FACTOR 0.9
THERMAL FACTOR 1.0
IMPORTANCE FACTOR 1.1
RAIN ON SNOW SURCHARGE 5 PSF
FLAT-ROOF SNOW 23 PSF

GENERAL

- NEITHER THE PROFESSIONAL ACTIVITIES OF THE ENGINEER, NOR THE PRESENCE OF THE ENGINEER OR THEIR EMPLOYEES AND SUBCONSULTANTS AT THE CONSTRUCTION SITE, SHALL RELIEVE THE CONTRACTOR AND ANY OTHER ENTITY OF THEIR OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. THE ENGINEER AND THEIR PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR OTHER ENTITY OR THEIR EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PRECAUTIONS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE JOBSITE SAFETY. THE ENGINEER AND THE ENGINEER'S CONSULTANTS SHALL BE MADE ADDITIONAL INSUREDS UNDER THE CONTRACTOR'S GENERAL LIABILITY INSURANCE POLICY.
- ALL DRAWINGS AND SPECIFICATIONS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OF RECORD (AOR) PRIOR TO THE START OF CONSTRUCTION SO A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR AOR.
- ALL DIMENSIONS AND SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOBSITE PRIOR TO CONSTRUCTION, START OF SHOP DRAWINGS, START OF CONSTRUCTION, AND/OR FABRICATION OF MATERIALS. IF DISCREPANCIES ARE ENCOUNTERED, OR CONDITIONS DEVELOP THAT ARE NOT COVERED BY THE CONTRACT DOCUMENTS, THE AOR SHALL BE NOTIFIED FOR CLARIFICATION.
- CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ADJACENT EXISTING SURFACES AND AREAS WHICH MAY BE DAMAGED AS A RESULT OF NEW WORK.
- STRUCTURAL DRAWINGS INCLUDE DESIGN REQUIREMENTS AND DIMENSIONS FOR STRUCTURAL INTEGRITY BUT DO NOT SHOW ALL DETAIL DIMENSIONS TO FIT INTRICATE ARCHITECTURAL AND MECHANICAL DETAILS. CONTRACTOR SHALL SO CONSTRUCT THE WORK SO IT WILL CONFORM TO THE CLEARANCES REQUIRED BY ARCHITECTURAL, MECHANICAL AND ELECTRICAL DESIGN.
- ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF CLARIFICATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE AOR PRIOR TO PROCEEDING WITH THE WORK.
- DO NOT SCALE DRAWINGS. PRINTED DIMENSIONS HAVE PRECEDENCE OVER SCALED DRAWINGS AND LARGE-SCALE OVER SMALL-SCALE DRAWINGS. CONTRACTOR TO DETERMINE FINAL DIMENSION WITH AOR.
- TYPICAL DETAILS SHALL APPLY UNLESS SPECIFICALLY DETAILED OTHERWISE. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
- THE CONTRACT DOCUMENTS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF WORKMEN DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING AND SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE AOR OR STRUCTURAL ENGINEER OF RECORD (SEOR) SHALL NOT INCLUDE INSPECTION OR APPROVAL OF THE ABOVE ITEMS AND DOES NOT IN ANY WAY RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITIES FOR THE ABOVE.
- SEE ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS FOR DETAILS, CONDITIONS, PITS, TRENCHES, PADS, DEPRESSIONS, ROOF/FLOOR OPENINGS, STAIRS, SLEEVES, ITEMS TO BE EMBEDDED OR ATTACHED TO STRUCTURAL ELEMENTS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- NO HOLES, NOTCHES, BLOCKOUTS, ETC. ARE ALLOWED IN STRUCTURAL ELEMENTS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE SEOR.
- BEFORE SUBMITTING A PROPOSAL FOR THIS WORK, EACH BIDDER SHALL VISIT THE PREMISES AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS, TEMPORARY CONSTRUCTION REQUIRED, QUANTITIES AND TYPE OF EQUIPMENT, ETC. THE BID SHALL INCLUDE ALL SUMS REQUIRED TO DO THE WORK WITHIN THE EXISTING CONDITIONS.
- SHOP DRAWINGS SHALL BE REVIEWED AND COORDINATED PRIOR TO SUBMITTING TO THE AOR. EACH SHOP DRAWING SUBMITTED SHALL BE STAMPED INDICATING REVIEW BY THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR AND REVIEW BY THE AOR SHALL NOT BEGIN UNTIL THIS IS COMPLETE. WORK SHALL NOT BEGIN WITHOUT REVIEW BY THE AOR/SEOR.
- SHOP DRAWINGS SHALL BE REVIEWED BY THE AOR/SEOR FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. NOTATIONS MADE BY THE AOR/SEOR ON THE SHOP DRAWINGS DO NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS.
- EXISTING CONDITIONS:
 - EXISTING STRUCTURAL INFORMATION SHOWN WAS OBTAINED FROM EXISTING DRAWINGS DATED 6-15-79 BY SVERDRUP & PARCEL AND ASSOCS. INC. AND 3-8-85 BY WEDEMEYER CERNIK CORRUZIA.
 - EXISTING STRUCTURAL INFORMATION SHOWN WAS ALSO OBTAINED FROM FIELD TAKE-OFF BY IMEG AS PERMITTED BY ACCESS RESTRICTIONS DURING DESIGN.
 - ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE. CONTRACTOR TO VERIFY EXISTING INFORMATION, DIMENSIONS AND SIZES AS REQUIRED TO COMPLETE THEIR WORK. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED TO THE AOR OR SEOR SO PROPER CLARIFICATION MAY BE MADE. MODIFICATION OF CONSTRUCTION DETAILS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE AOR OR SEOR.

DEMOLITION

- ALL DEMOLITION SHALL BE CARRIED OUT IN SUCH A WAY AS TO NOT DAMAGE EXISTING ELEMENTS WHICH ARE TO REMAIN.
- ALL ELEMENTS WHICH ARE TO REMAIN AND WHICH ARE DAMAGED DURING DEMOLITION WORK SHALL BE REPLACED AT NO ADDED COST. EXISTING ELEMENTS ARE TO BE PROTECTED TO THE FULLEST EXTENT POSSIBLE TO REDUCE SUCH DAMAGE TO A MINIMUM.

POST-INSTALLED ANCHORS

- ANCHORS SERVING AS THE BASIS OF DESIGN ARE SHOWN ON THE DRAWINGS. ACCEPTABLE ALTERNATIVE ANCHORS MAY BE SUPPLIED PROVIDED THE QUANTITY AND CONFIGURATION MATCH THE CAPACITY OF THE DESIGN ANCHOR QUANTITY AND CONFIGURATION. ANY ALTERNATES ARE TO BE SUBMITTED TO THE SEOR FOR REVIEW. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. BELOW SUMMARIZES EACH ANCHOR TYPE USED ON THE PROJECT.
- MECHANICAL ANCHORS:
EXPANSION ANCHORS

ANCHORED INTO	BASIS OF DESIGN	ACCEPTABLE ALTERNATES
UNCRACKED CONCRETE	HILTI KWIK BOLT 3 [ESR-2302]	DEWALT POWER STUD+ SD2 [ESR-2502] RED HEAD TRUBOLT+ [ESR-2427] SIMPSON STRONG BOLT 2 [ESR-3037]
CRACKED CONCRETE	HILTI KWIK BOLT TZ [ESR-1917]	DEWALT POWER STUD+ SD2 [ESR-2502] RED HEAD TRUBOLT+ [ESR-2427] SIMPSON STRONG BOLT 2 [ESR-3037]

- ADHESIVE ANCHORS: SHALL CONSIST OF DEFORMED REINFORCING BARS OR ASTM A193 GRADE B7 RODS, HEAVY DUTY NUTS AND WASHERS AND A TWO COMPONENT STRUCTURAL ADHESIVE. WHERE ANCHORING INTO HOLLOW MASONRY, A SCREEN TUBE SHALL BE PROVIDED.

ANCHORED INTO	BASIS OF DESIGN	ACCEPTABLE ALTERNATES
CONCRETE	HILTI HIT-HY 200 [ESR-3187]	DEWALT AC 200+ [ESR-4027] SIMPSON SET-3G [ESR-4057]

- CRACKED CONCRETE REPRESENTS ALL CONCRETE FOR PROJECTS LOCATED IN SEISMIC DESIGN CATEGORY C OR HIGHER, TENSILE ZONES SUCH AS BOTTOMS OF BEAMS AND SLABS, OR WHERE NOTED ON THE DRAWINGS.

STEEL DECK

- DECK SIZE AND GAUGE INDICATED ON THE DRAWINGS ARE BASED ON THE FOLLOWING:
 - VULCRAFT 2008 CATALOG FOR GRAVITY DESIGN LOADS AND UNSHORED CONSTRUCTION SPANS.
 - STEEL DECK INSTITUTE (SDI) DIAPHRAGM DESIGN MANUAL 3RD EDITION FOR DIAPHRAGM LOADS.
- STEEL DECK GALVANIZING SHALL CONFORM TO ASTM A653 WITH A MINIMUM COATING OF G60.
- ALL DECK SHALL MEET **ICBO 2078-P** AND THE MINIMUM TYPE AND GAUGE INDICATED ON THE DRAWINGS, AND AS FOLLOWS:

TYPE	GAUGE	Ix	Sx	Fy
1.5" B PLB/HSS (ROOF)	20	0.201	0.234	33
- UNLESS NOTED OTHERWISE, DECK SHALL BE FASTENED WITH 5/8"Ø PUDDLE WELDS AT 12" OC AT ALL SUPPORTS AND EDGES. SIDE LAPS SHALL BE FASTENED WITH 5/8"Ø PUDDLE WELDS, MINIMUM ONE AT EACH MIDSPAN. OPENING EDGES SHALL RECEIVE THE SAME WELDING AS REQUIRED AT DECK ENDS. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS EXPERIENCED IN COLD-FORMED STEEL DECK WORK.
- DO NOT EXCEED 25 LBS PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER WHEN ATTACHING TO STEEL ROOF DECK. THIS 25 LBS LOAD AND 2'-0" SPACING INCLUDES ADJACENT MECHANICAL, ELECTRICAL, AND ARCHITECTURAL ITEMS HANGING FROM THE DECK. IF THE HANGER RESTRICTIONS CANNOT BE ACHIEVED, SUPPLEMENTAL FRAMING SUPPORTED OFF STEEL FRAMING WILL NEED TO BE ADDED. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATION AND WEIGHT OF ALL THE ELEMENTS BEING HUNG.

COLD-FORMED STEEL FRAMING (CFSF) SYSTEM

- COLD-FORMED STRUCTURAL STUDS SHALL CONFORM TO THE FOLLOWING STANDARDS:
ROLLED SECTIONS, CONNECTION MATERIAL, AND STIFFENER PLATES

18 GAUGE AND THINNER	ASTM A653, GR 53	Fy = 33 KSI
16 GAUGE AND THICKER	ASTM A653, GR 50	Fy = 50 KSI
CONNECTION MATERIAL >3/16"	ASTM A36	Fy = 36 KSI
ANCHOR RODS	ASTM F1554, GR 36	Fy = 36 KSI
BOLTS	ASTM A307	Fv = 10 KSI
HOT-DIP COATING	ASTM A524, G60	
ELECTRO-PLATE COATING	ASTM A591	
ALUMINUM-ZINC COATING	ASTM A792, GR 40	
INSTALLATION	ASTM C955 AND ASTM C1007	
ELECTRODES FOR ARC WELDING	AWS 5.1, E60XX	
- PROVIDE TRACKS, BLOCKING, HEADERS, CLIP ANGLES, BRIDGING, SHOES, REINFORCEMENTS, FASTENERS AND ACCESSORIES TO PROVIDE A COMPLETE METAL FRAME SYSTEM IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- TRACK SHALL BE THE SAME SIZE AND GAUGE AS THE STUD.
- UNIFORM BEARING SURFACE SHALL BE PROVIDED WITH A MAXIMUM 1/4 INCH GAP BETWEEN BOTTOM TRACK AND THE FOUNDATION OR SLAB. IT SHALL BE ACCOMPLISHED BY THE USE OF LOAD BEARING SHIMS AND/OR GROUT PROVIDED BETWEEN THE UNDERSIDE OF THE WALL, BOTTOM TRACK AND THE TOP OF THE FOUNDATION OR SLAB AT EACH STUD.
- UNLESS OTHERWISE NOTED, ATTACH MATERIALS BY BOLTING OR SCREW FASTENERS.
 - SCREW CONNECTIONS:
 - SCREWS LARGER THAN SPECIFIED MAY BE USED, PROVIDED THE MINIMUM SPACING AND EDGE DISTANCE REQUIREMENTS ARE MET.
 - SCREWS SHALL BE FULLY DRIVEN AND HAVE A MINIMUM PENETRATION OF THREE THREADS THROUGH THE LAST MATERIAL JOINED.
 - SCREWS SHALL HAVE A PROTECTIVE COATING COMPLYING WITH RECOGNIZED DESIGN STANDARDS FOR THE PROJECT ENVIRONMENTAL CONDITIONS.
 - UNLESS INDICATED OTHERWISE ON THE DRAWINGS OR IN SHEAR WALL PANELS, FASTEN GYPSUM BOARD WITH #6 x 1" BUGLE HEAD SCREWS AT 12" OC AT ALL SUPPORTS AND EDGES.
 - WEB CRIPPLING BASED ON MINIMUM 10" UNPUNCHED STEEL AT BOTH ENDS.

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



PROFESSIONAL SEAL



STATE OF MISSOURI
CERTIFICATE OF AUTHORITY #2018019473

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PROJECT # C1916-01
SITE # 7007
FACILITY # 9327007008

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DATE: _____
ISSUE DATE: NOVEMBER 5, 2019

CAD DWG FILE:
DRAWN BY: WALLEW
CHECKED BY: _____
DESIGNED BY: KATGOL

SHEET TITLE:
GENERAL NOTES

SHEET NUMBER:

S000

11 OF 20 SHEETS
11/05/2019

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REFERENCE SCALE IN INCHES
0 1 2 3

- KEYNOTES:** (#)
1. REMOVE EXISTING CURB AND SKYLIGHT AND INFILL EXISTING OPENING WITH NEW 1 1/2" WIDE RIB STEEL DECK (20 GA).
 2. REMOVE EXISTING WALL AND SKYLIGHT AND INFILL EXISTING OPENING WITH NEW 16 GA 2x6 CFSF JOISTS AT 32" OC. SCREW 1 1/2" TYPE B STEEL DECK (22 GA) TO TOP OF JOISTS @ 12" OC WITH #12 TEK SCREWS. SLOPE NEW FRAMING AND DECK WITH EXISTING STEEL DECK.

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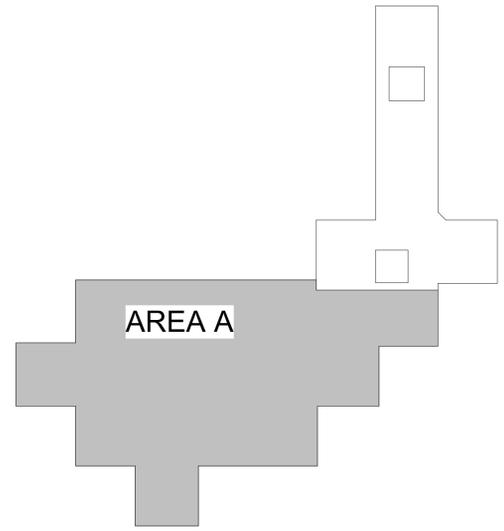
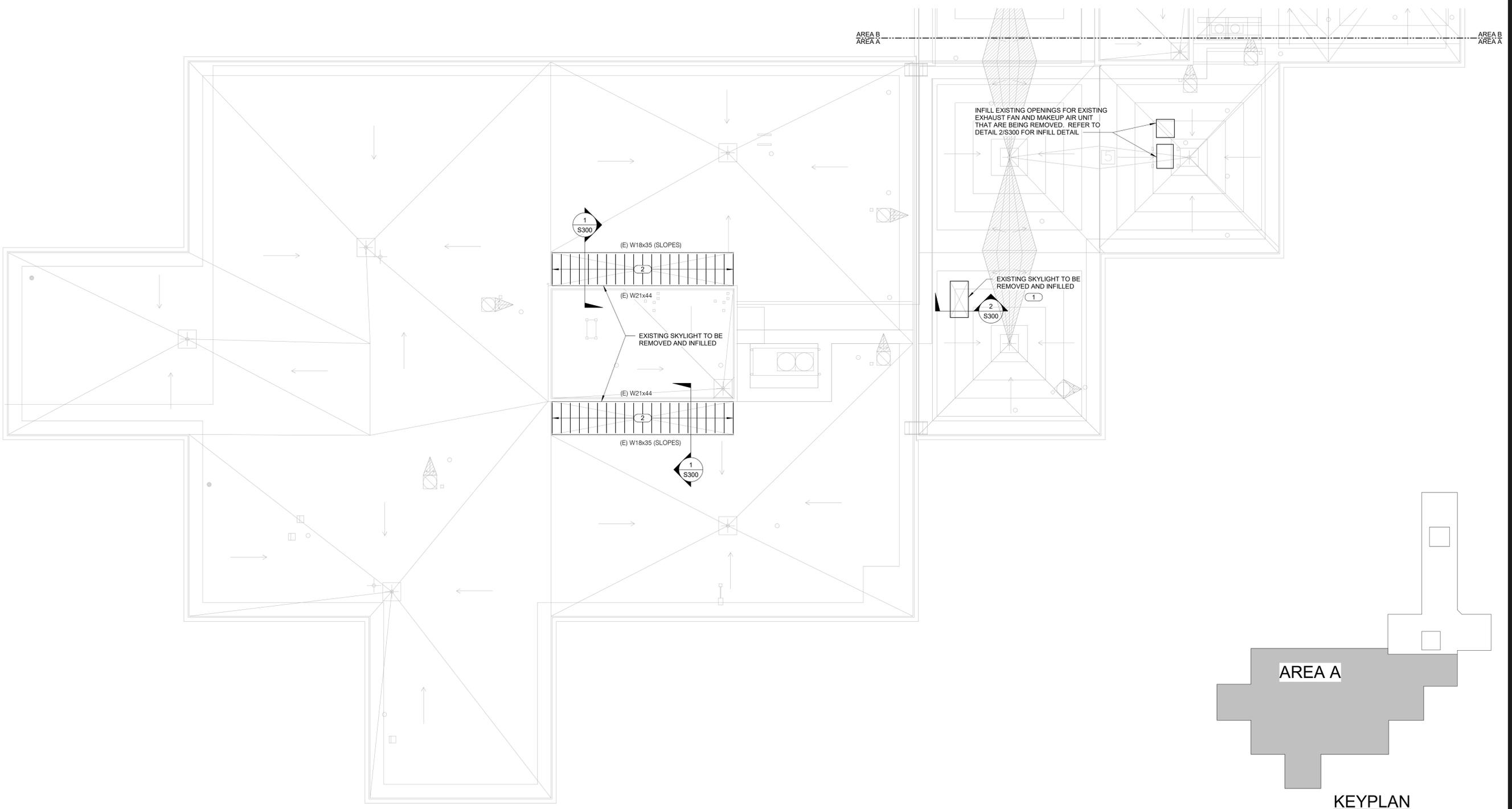
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DRAWN BY: WALLEW
CHECKED BY: -
DESIGNED BY: KATGOL

SHEET TITLE:
ROOF FRAMING PLAN
- AREA A

SHEET NUMBER:

S200

12 OF 20 SHEETS
11/05/2019



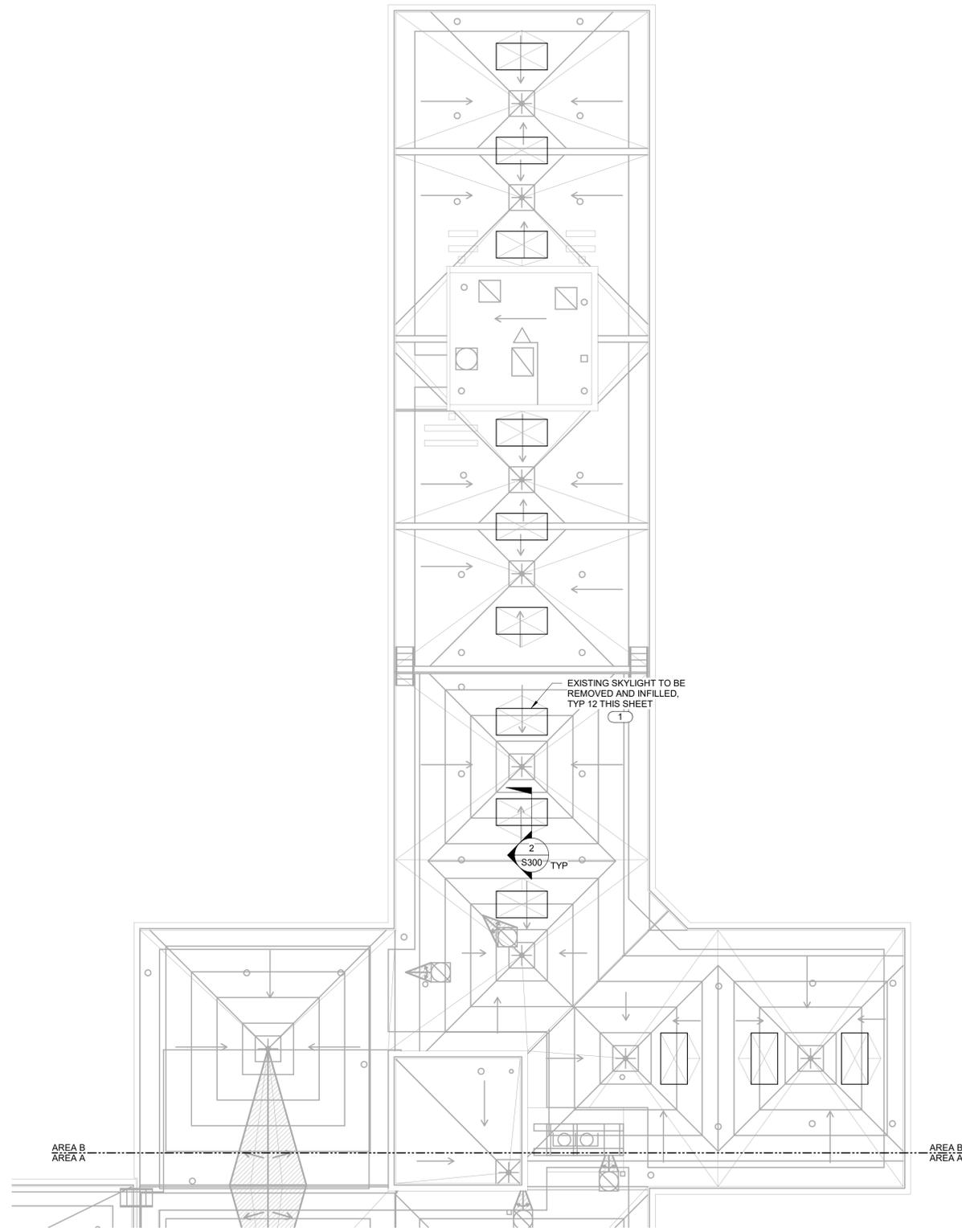
KEYPLAN

1 ROOF FRAMING PLAN - OVERALL
3/32" = 1'-0"
NORTH

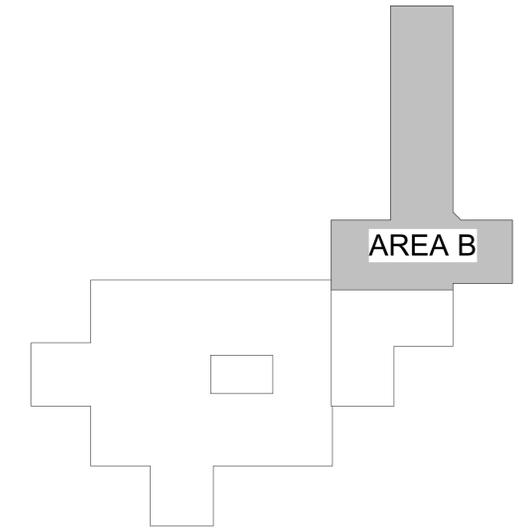
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KEYNOTES: (#)

1. REMOVE EXISTING CURB AND SKYLIGHT AND INFILL EXISTING OPENING WITH NEW 1 1/2" WIDE RIB STEEL DECK (20 GA).



1 ROOF FRAMING PLAN - AREA B
3/32" = 1'-0"



KEYPLAN

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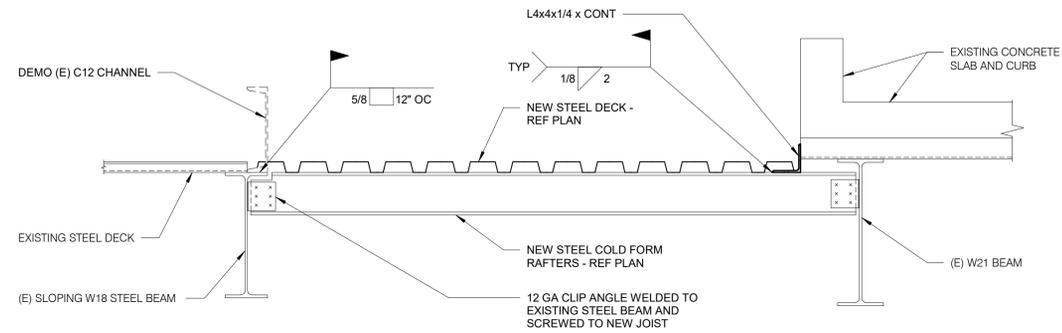
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DRAWN BY: WALLEW
CHECKED BY: _____
DESIGNED BY: KATGOL

SHEET TITLE:
ROOF FRAMING PLAN
- AREA B

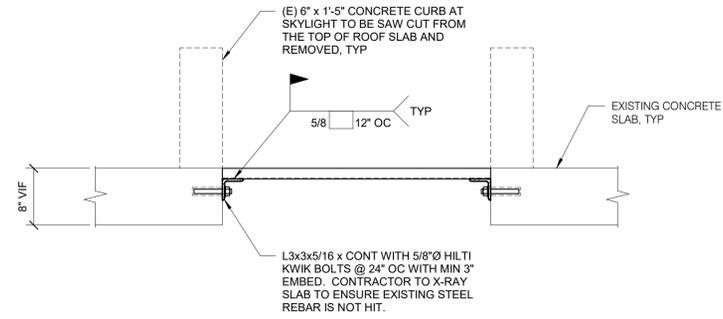
SHEET NUMBER:

S201

13 OF 20 SHEETS
11/05/2019



1 SKYLIGHT INFILL FRAMING DETAIL
1" = 1'-0"



2 SKYLIGHT / ROOF TOP EQUIPMENT INFILL DETAIL
1" = 1'-0"

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CAD DWG FILE:
DRAWN BY: WALLEW
CHECKED BY: -
DESIGNED BY: KATGOL

SHEET TITLE:
FRAMING DETAILS

SHEET NUMBER:

S300

14 OF 20 SHEETS
11/05/2019

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PROFESSIONAL SEAL



STATE OF MISSOURI
CERTIFICATE OF AUTHORITY #2018019473

L2e SOLUTIONS
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DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION

DEPARTMENT OF
CORRECTIONS

18701 OLD HIGHWAY 66
PACIFIC, MISSOURI 63069

REPLACE ROOF
INCLUDING SKY LIGHT
ADMINISTRATION BLDG &
HOUSING UNIT 5
MISSOURI EASTERN
CORRECTIONAL CENTER

PACIFIC MISSOURI

PROJECT # C1916-01
SITE # 7007
FACILITY # 9327007008

REVISION:
DATE: _____
REVISION:
DATE: _____
REVISION:
DATE: _____
ISSUE DATE: NOVEMBER 5, 2019

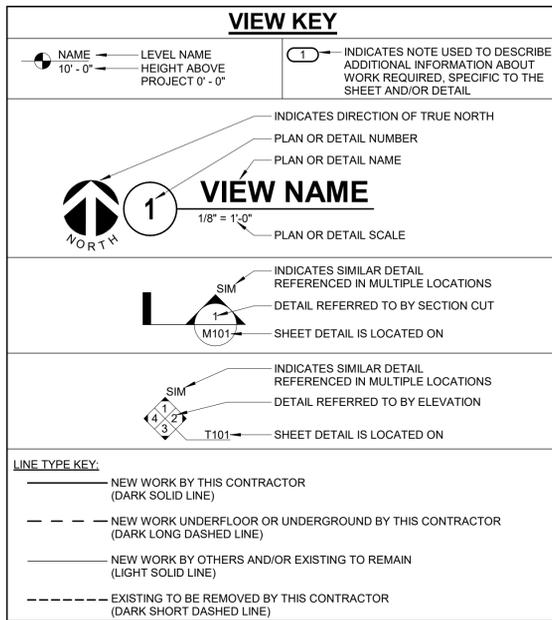
CAD DWG FILE:
DRAWN BY: MASRYA/KATDEN
CHECKED BY: MARHAR/RUSARN
DESIGNED BY: MASRYA/KATDEN

SHEET TITLE:
MECHANICAL &
ELECTRICAL
COVERSHEET

SHEET NUMBER:

ME000

15 OF 20 SHEETS
11/05/2019



CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR

MECHANICAL SYMBOL LIST

NOT ALL SYMBOLS MAY APPLY.

SYMBOL:	DESCRIPTION:
	DRAIN
	NATURAL GAS
	GAS VENT
	REFRIGERANT LIQUID
	SOFT HOT WATER
	STORM DRAINAGE
	STORM DRAINAGE (SECONDARY)
	REFRIGERANT SUCTION
	VENT
	PIPE CAP
	PIPE DOWN
	PIPE UP OR UP/DOWN
	ROOF DRAIN PROPERTIES
	NEW CONNECTION
	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB
	DUCT DOWN
	DUCT UP
	SUPPLY/OUTSIDE AIR DUCT SECTION
	RETURN AIR DUCT SECTION
	EXHAUST/RELIEF AIR DUCT SECTION

MECHANICAL ABBREVIATION KEY

ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
E	EXISTING
EA	EXHAUST/RELIEF AIR
NC	NEW CONNECTION
NIC	NOT IN CONTRACT
RA	RETURN AIR
RD	ROOF DRAIN
SA	SUPPLY AIR
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VTR	VENT THROUGH ROOF

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
	ECONN	26 05 33	ELECTRICAL CONNECTION
	JB	26 05 33	JUNCTION BOX
	REC-DUP-WP	EXISTING	DUPLX GFI WEATHERPROOF RCPT 125V
	SW-LS-PC	EXISTING	PHOTOCELL
	DS-#	EXISTING	DISCONNECT
	F#	EXISTING	WALL SCONCE LUMINAIRE

MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, PLUMBING, VENTILATION, AND PIPING.

- DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
- DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
- ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
- EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
- SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
- CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
- DO NOT BLOCK TUBE PULL OR EQUIPMENT SERVICE CLEARANCES.
- MAINTAIN MINIMUM NEC REQUIRED CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS, MOTOR STARTERS, SWITCHES, AND DISCONNECTS.
- PIPE DRAIN LINES FROM EQUIPMENT TO NEAREST FLOOR DRAIN.
- INSTALL ALL REFRIGERANT LIQUID AND SUCTION PIPING SIZED PER EQUIPMENT MANUFACTURER RECOMMENDATIONS.

MECHANICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, PLUMBING, VENTILATION, AND PIPING.

- EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
- NOT ALL EXISTING DUCTWORK AND PIPING IS SHOWN. VERIFY EXISTING CONDITIONS BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY CONFLICTS WITH NEW WORK.
- EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF HIS/HER WORK AND SHALL NOTIFY THE GENERAL CONTRACTOR PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO HIS/HER AREA OF WORK.
- EACH CONTRACTOR SHALL CUT AND PATCH ROOFS, WALLS, AND FLOORS ASSOCIATED WITH HIS WORK.
- PROVIDE TEMPORARY CONNECTIONS TO MAINTAIN EXISTING SYSTEMS IN SERVICE DURING CONSTRUCTION. MAINTAIN ACCESS TO EXISTING MECHANICAL INSTALLATIONS THAT REMAIN ACTIVE.
- OBTAIN PERMISSION FROM OWNER BEFORE SHUTTING DOWN ANY SYSTEM FOR ANY REASON. MAINTAIN SERVICE TO ALL COMPONENTS THAT ARE TO REMAIN UNTIL NEW SYSTEMS ARE INSTALLED.
- MAINTAIN EXISTING SYSTEM IN SERVICE UNTIL NEW SYSTEM IS COMPLETE AND READY FOR TIE IN AND SWITCHOVER. DRAIN SYSTEM ONLY TO MAKE SWITCHOVERS AND CONNECTIONS. OBTAIN PERMISSION FROM OWNER BEFORE PARTIALLY OR COMPLETELY DRAINING SYSTEM. MAKE CHANGEVER TO NEW SYSTEMS WITH MINIMUM OUTAGE.

ELECTRICAL GENERAL NOTES:

- ### INDICATES ELECTRICAL EQUIPMENT DEFINED IN ELECTRICAL SCHEDULES OR SPECIFICATION. REFER TO DRAWINGS CONTAINING ELECTRICAL SCHEDULES. PERMANENT NAMEPLATE SHALL MATCH FINAL EQUIPMENT NOMENCLATURE, NOT ELECTRICAL EQUIPMENT TAG NAME. REFER TO SPECIFICATIONS.

DEVICE KEY:

A = MOUNTING (IF APPLICABLE)
1 = CIRCUIT NUMBER (IF APPLICABLE)

*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: A / 1

ELECTRICAL MOUNTING SUBSCRIPT KEY:
W WEATHERPROOF ENCLOSURE

ELECTRICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, LIGHTING, POWER, AND SYSTEMS.

- EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
- NOT ALL EXISTING EQUIPMENT, AND CONDUIT ARE SHOWN. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS WITH NEW WORK BEFORE STARTING WORK.
- FIELD VERIFY THE AVAILABLE CLEARANCES FOR CONDUITS BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
- EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF HIS/HER WORK AND SHALL NOTIFY THE GENERAL CONTRACTOR PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO HIS/HER AREA OF WORK.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF ROOFS, WALLS, AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
- WHERE EXISTING ELECTRICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, CONDUIT, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING ELECTRICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.

PLUMBING GENERAL NOTES:

- THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.
- CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR A COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.
- CONTRACTOR SHALL VERIFY THAT FIXTURES SUPPLIED ARE APPROVED PER ALL APPLICABLE STATE, LOCAL, AND GOVERNING AUTHORITIES.
- ALL FIXTURES SHALL CONFORM TO FEDERAL ACT 5 3874.
- REFER TO THE PLUMBING ROUGH-IN SCHEDULE FOR THE SIZES OF BRANCH PIPES TO PLUMBING FIXTURES.
- EXISTING CONDITIONS ON DEMOLITION PLANS ARE PROVIDED TO INDICATE THE GENERAL SCOPE OF ITEMS TO BE REMOVED. REFER TO SPECIFICATION SECTION 22 05 05 FOR ADDITIONAL DEMOLITION INFORMATION.
- P.C. SHALL CUT AND PATCH EXISTING AS REQUIRED FOR NEW OR DEMOLITION WORK UNLESS NOTED OTHERWISE. REFER TO SPECIFICATION SECTION 22 05 05 FOR ADDITIONAL INFORMATION.

TAB PRE-DEMOLITION NOTES:

- BEFORE ANY DEMOLITION WORK IS BEGUN A COMPLETE BALANCE TEST SHALL BE PERFORMED BY THE TESTING AND BALANCING (TAB) CONTRACTOR AND CONTRACTOR ON EXISTING CHILLERS AND EXHAUST FANS SERVING THE AREAS AFFECTED BY CONSTRUCTION. EQUIPMENT TO BE DEMOLISHED DOES NOT REQUIRE TESTING. PROVIDE BALANCE TESTING ONLY ON EQUIPMENT THAT WILL CONTINUE TO BE USED TO SERVE RENOVATED AREAS AFTER THE CONSTRUCTION PHASE IS COMPLETED.
- TAB CONTRACTOR SHALL COMPILER AND SUBMIT FOUR COPIES OF THE FINAL PRE-DEMOLITION REPORT WITHIN 10 WORKING DAYS AFTER THE FIELD MEASUREMENTS ARE COMPLETED. FINAL TAB REPORT SHALL BE SUBMITTED FOR REVIEW TO THE ARCHITECT/ENGINEER. TESTING SHALL INCLUDE ALL ITEMS REQUIRED IN THE SPECIFICATIONS.
- BALANCING CONTRACTOR SHALL PRE-BALANCE ALL EXISTING SYSTEMS TO REMAIN PER SPECIFICATION SECTION 23 05 93.

TAB POST-CONSTRUCTION NOTES:

- AFTER CONSTRUCTION ACTIVITIES ARE COMPLETE, TESTING, ADJUSTING AND BALANCING(TAB) CONTRACTOR SHALL REBALANCE CHILLERS AND EXHAUST FANS AS REQUIRED TO ACHIEVE THE NEW AIRFLOW VALUES SHOWN ON THE CONSTRUCTION DRAWINGS.
- AREAS SERVED BY THIS EQUIPMENT WHICH WERE NOT RENOVATED SHALL BE RE-BALANCED TO THE FLOW RATES MEASURED BEFORE THE RENOVATION OCCURRED (REFER TO THE FINAL PRE-DEMOLITION REPORT).
- TAB CONTRACTOR SHALL COMPILER AND SUBMIT COPIES OF THE FINAL POST-CONSTRUCTION TAB REPORT AS REQUIRED BY SECTION 23 05 93.
- THE FINAL POST CONSTRUCTION REPORT SHALL INCLUDE ALL ITEMS REQUIRED IN THE SPECIFICATIONS.

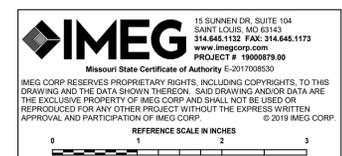
ELECTRICAL INSTALLATION NOTES:

- THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION.
- ELECTRICAL EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF OPERATION OF, AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
- ALL WELDING SHALL BE ACCORDING TO AMERICAN WELDING SOCIETY STANDARDS. CONTRACTOR SHALL FURNISH TO THE ARCHITECT/ENGINEER CERTIFICATES QUALIFYING EACH WELDER, PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER RESERVES THE RIGHT TO REQUIRE QUALIFYING DEMONSTRATION, AT THE CONTRACTOR'S EXPENSE, OF ANY WELDERS ASSIGNED TO THE JOB.

ELECTRICAL PHASING NOTES:

THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, LIGHTING, POWER, AND SYSTEMS.

- REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL DESCRIPTION OF PHASES. REFER TO GENERAL CONTRACTOR'S INSTRUCTIONS FOR MORE DETAILS, PHASING SCHEDULES AND FOR CONCURRENT WORK. MECHANICAL, ELECTRICAL AND TECHNOLOGY DRAWINGS DEPICT THE INTENT OF THE FINAL DESIGN. THE MECHANICAL, ELECTRICAL, AND TECHNOLOGY DRAWINGS DO NOT DEPICT THE MEANS AND METHODS TO MEET THE REQUIREMENTS OF THE PHASING CRITERIA.
- REVIEW PROJECT PHASING PLANS TO COORDINATE DEMOLITION WORK, OUTAGES, ETC. WITH AFFECTED ADJACENT AREAS.
- PROVIDE TEMPORARY LIGHTING, POWER, SYSTEMS, ETC. AS NEEDED TO MAINTAIN SERVICE TO ALL AREAS DURING ALL PHASES OF PROJECT.
- INSTALL TEMPORARY LIGHTING, CIRCUITS, ETC. AS NECESSARY TO KEEP ALL OCCUPIED SPACES OPERATIONAL THROUGHOUT ALL PHASES OF THE PROJECT.
- PHASE DEMOLITION WORK TO MINIMIZE DOWNTIME.





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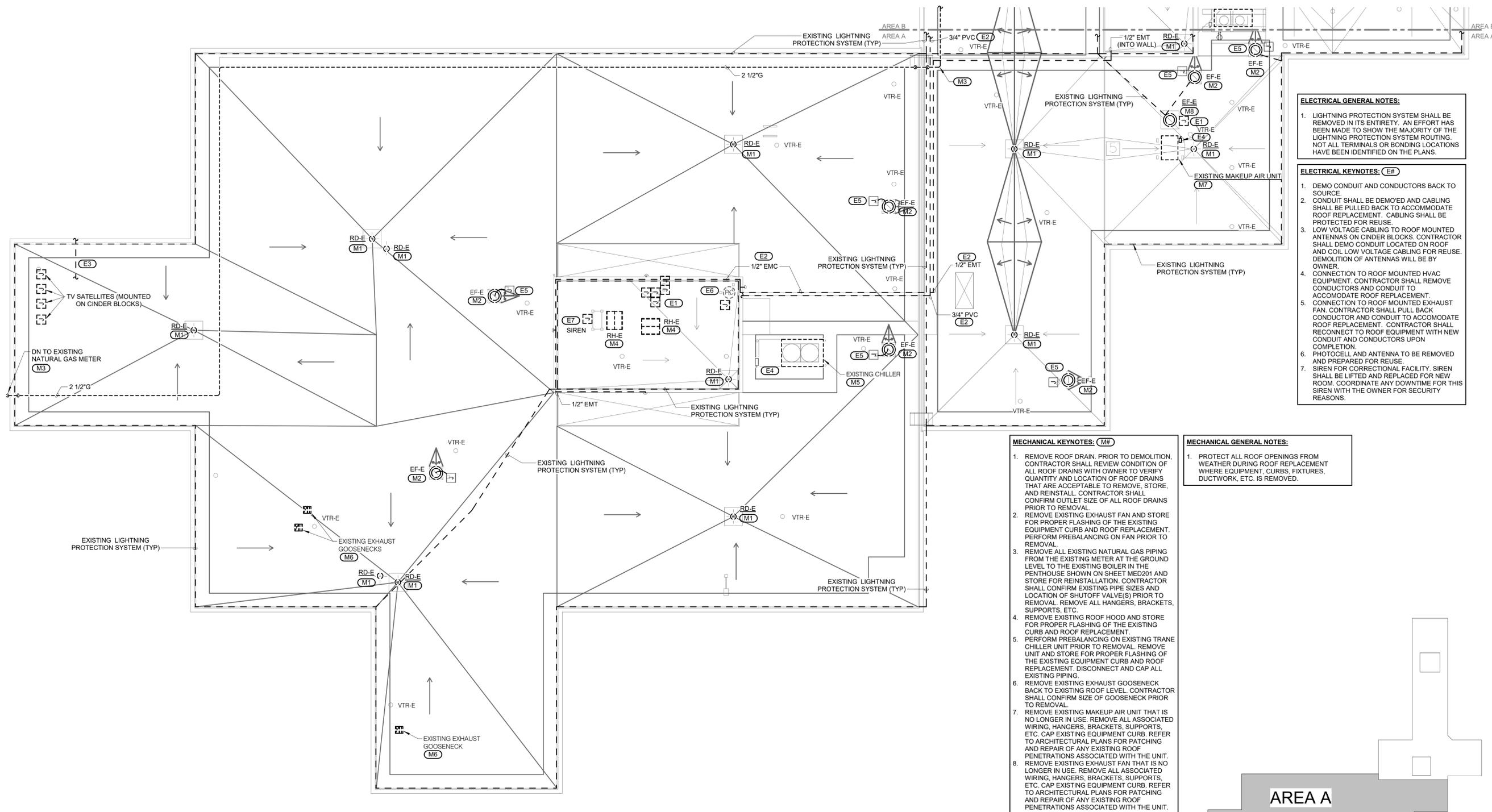
CAD DWG FILE:
DRAWN BY: MASRYA/KATDEN
CHECKED BY: MARHAR/RUSARN
DESIGNED BY: MASRYA/KATDEN

SHEET TITLE:
ROOF PLAN -
MECHANICAL &
ELECTRICAL
DEMOLITION - AREA A

SHEET NUMBER:

MED200

16 OF 20 SHEETS
11/05/2019



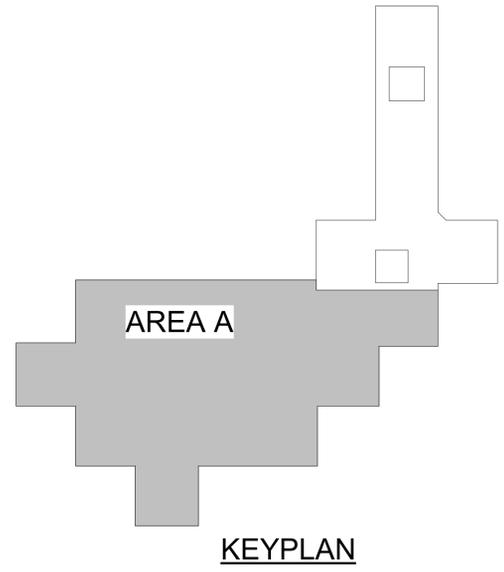
- MECHANICAL KEYNOTES: (M#)**
1. REMOVE ROOF DRAIN. PRIOR TO DEMOLITION, CONTRACTOR SHALL REVIEW CONDITION OF ALL ROOF DRAINS WITH OWNER TO VERIFY QUANTITY AND LOCATION OF ROOF DRAINS THAT ARE ACCEPTABLE TO REMOVE, STORE, AND REINSTALL. CONTRACTOR SHALL CONFIRM OUTLET SIZE OF ALL ROOF DRAINS PRIOR TO REMOVAL.
 2. REMOVE EXISTING EXHAUST FAN AND STORE FOR PROPER FLASHING OF THE EXISTING EQUIPMENT CURB AND ROOF REPLACEMENT. PERFORM PREBALANCING ON FAN PRIOR TO REMOVAL.
 3. REMOVE ALL EXISTING NATURAL GAS PIPING FROM THE EXISTING METER AT THE GROUND LEVEL TO THE EXISTING BOILER IN THE PENTHOUSE SHOWN ON SHEET MED201 AND STORE FOR REINSTALLATION. CONTRACTOR SHALL CONFIRM EXISTING PIPE SIZES AND LOCATION OF SHUTOFF VALVE(S) PRIOR TO REMOVAL. REMOVE ALL HANGERS, BRACKETS, SUPPORTS, ETC.
 4. REMOVE EXISTING ROOF HOOD AND STORE FOR PROPER FLASHING OF THE EXISTING CURB AND ROOF REPLACEMENT.
 5. PERFORM PREBALANCING ON EXISTING TRANE CHILLER UNIT PRIOR TO REMOVAL. REMOVE UNIT AND STORE FOR PROPER FLASHING OF THE EXISTING EQUIPMENT CURB AND ROOF REPLACEMENT. DISCONNECT AND CAP ALL EXISTING PIPING.
 6. REMOVE EXISTING EXHAUST GOOSENECK BACK TO EXISTING ROOF LEVEL. CONTRACTOR SHALL CONFIRM SIZE OF GOOSENECK PRIOR TO REMOVAL.
 7. REMOVE EXISTING MAKEUP AIR UNIT THAT IS NO LONGER IN USE. REMOVE ALL ASSOCIATED WIRING, HANGERS, BRACKETS, SUPPORTS, ETC. CAP EXISTING EQUIPMENT CURB. REFER TO ARCHITECTURAL PLANS FOR PATCHING AND REPAIR OF ANY EXISTING ROOF PENETRATIONS ASSOCIATED WITH THE UNIT.
 8. REMOVE EXISTING EXHAUST FAN THAT IS NO LONGER IN USE. REMOVE ALL ASSOCIATED WIRING, HANGERS, BRACKETS, SUPPORTS, ETC. CAP EXISTING EQUIPMENT CURB. REFER TO ARCHITECTURAL PLANS FOR PATCHING AND REPAIR OF ANY EXISTING ROOF PENETRATIONS ASSOCIATED WITH THE UNIT.

- MECHANICAL GENERAL NOTES:**
1. PROTECT ALL ROOF OPENINGS FROM WEATHER DURING ROOF REPLACEMENT WHERE EQUIPMENT, CURBS, FIXTURES, DUCTWORK, ETC. IS REMOVED.

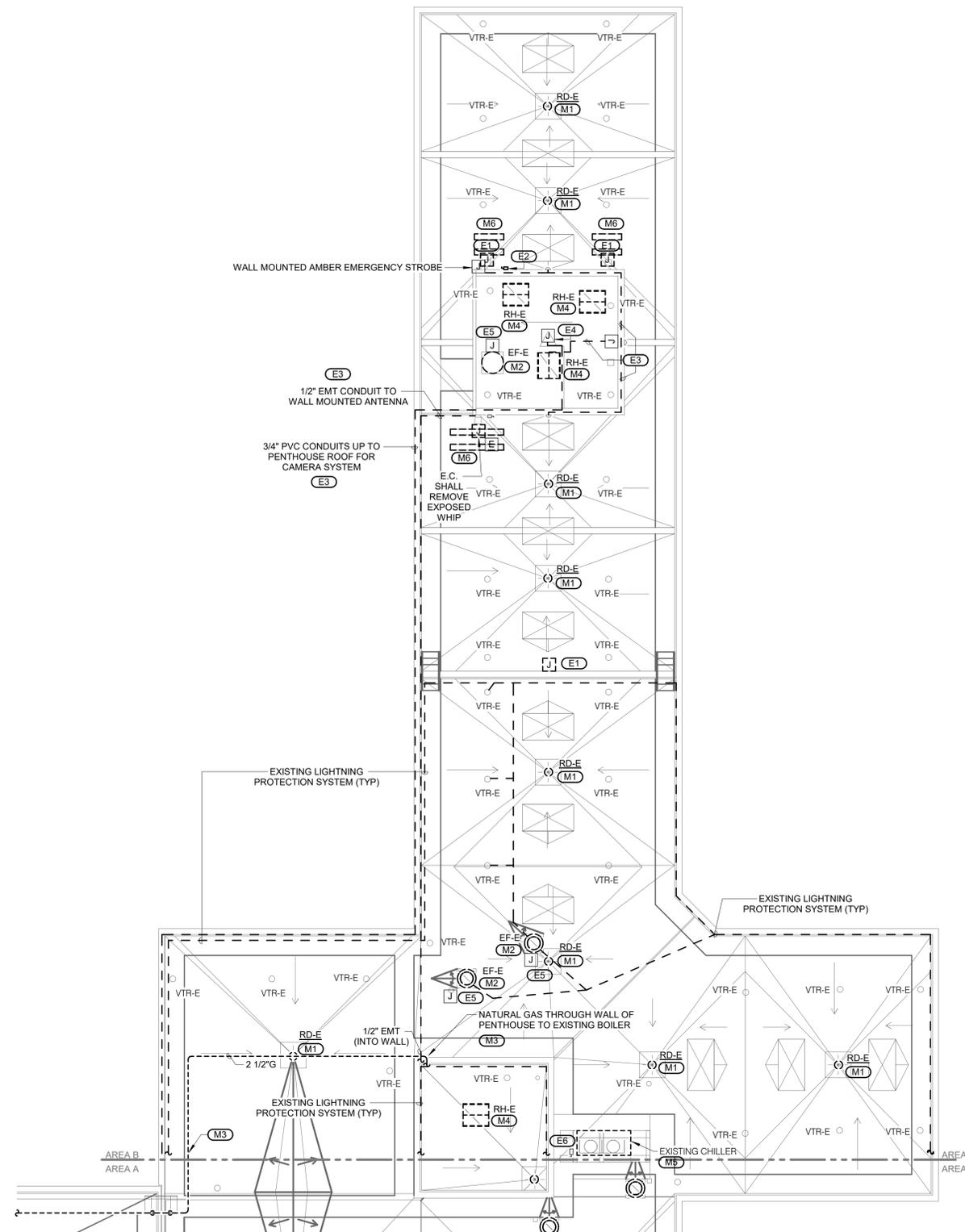
- ELECTRICAL GENERAL NOTES:**
1. LIGHTNING PROTECTION SYSTEM SHALL BE REMOVED IN ITS ENTIRETY. AN EFFORT HAS BEEN MADE TO SHOW THE MAJORITY OF THE LIGHTNING PROTECTION SYSTEM ROUTINGS. NOT ALL TERMINALS OR BONDING LOCATIONS HAVE BEEN IDENTIFIED ON THE PLANS.

- ELECTRICAL KEYNOTES: (EF#)**
1. DEMO CONDUIT AND CONDUCTORS BACK TO SOURCE.
 2. CONDUIT SHALL BE DEMO'ED AND CABLING SHALL BE PULLED BACK TO ACCOMMODATE ROOF REPLACEMENT. CABLING SHALL BE PROTECTED FOR REUSE.
 3. LOW VOLTAGE CABLING TO ROOF MOUNTED ANTENNAS ON CINDER BLOCKS. CONTRACTOR SHALL DEMO CONDUIT LOCATED ON ROOF AND COIL LOW VOLTAGE CABLING FOR REUSE. DEMOLITION OF ANTENNAS WILL BE BY OWNER.
 4. CONNECTION TO ROOF MOUNTED HVAC EQUIPMENT. CONTRACTOR SHALL REMOVE CONDUCTORS AND CONDUIT TO ACCOMMODATE ROOF REPLACEMENT.
 5. CONNECTION TO ROOF MOUNTED EXHAUST FAN. CONTRACTOR SHALL PULL BACK CONDUCTOR AND CONDUIT TO ACCOMMODATE ROOF REPLACEMENT. CONTRACTOR SHALL RECONNECT TO ROOF EQUIPMENT WITH NEW CONDUIT AND CONDUCTORS UPON COMPLETION.
 6. PHOTOCELL AND ANTENNA TO BE REMOVED AND PREPARED FOR REUSE.
 7. SIREN FOR CORRECTIONAL FACILITY. SIREN SHALL BE LIFTED AND REPLACED FOR NEW ROOM. COORDINATE ANY DOWNTIME FOR THIS SIREN WITH THE OWNER FOR SECURITY REASONS.

1 ROOF PLAN - MECHANICAL & ELECTRICAL DEMOLITION - AREA A
3/32" = 1'-0"
NORTH



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0 1 2 3



1 ROOF PLAN - MECHANICAL & ELECTRICAL DEMOLITION - AREA B

3/32" = 1'-0"

ELECTRICAL GENERAL NOTES:

1. LIGHTNING PROTECTION SYSTEM SHALL BE REMOVED IN ITS ENTIRETY. AN EFFORT HAS BEEN MADE TO SHOW THE MAJORITY OF THE LIGHTNING PROTECTION SYSTEM ROUTING. NOT ALL TERMINALS OR BONDING LOCATIONS HAVE BEEN IDENTIFIED ON THE PLANS.

ELECTRICAL KEYNOTES: (E#)

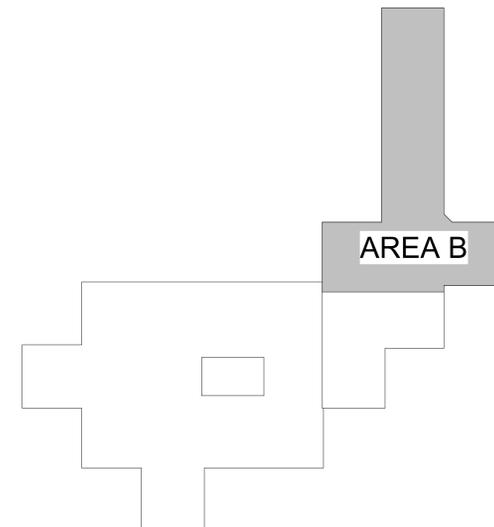
1. DEMO CONDUIT AND CONDUCTORS BACK TO SOURCE FOR ROOF PENETRATION.
2. DEMO DISCONNECT AND CONSULT WITH OWNER FOR SALVAGING.
3. CONDUIT SHALL BE DEMO'ED AND CABLING SHALL BE PULLED BACK TO ACCOMMODATE ROOF REPLACEMENT.
4. CONDUIT PENETRATION FOR CAMERA SHALL BE REMOVED TO ACCOMMODATE ROOFTOP REPLACEMENT. REMOVE CAMERA AND PREPARE IT FOR REUSE. COORDINATE ALL CAMERA REMOVAL AND REINSTALLATION WITH OWNER.
5. CONNECTION TO ROOF MOUNTED EXHAUST FAN. CONTRACTOR SHALL PULL BACK CONDUCTOR AND CONDUIT TO ACCOMMODATE ROOF REPLACEMENT. CONTRACTOR SHALL RECONNECT TO ROOF EQUIPMENT WITH NEW CONDUIT AND CONDUCTORS UPON COMPLETION.
6. CONNECTION TO ROOF MOUNTED HVAC EQUIPMENT. CONTRACTOR SHALL PULL BACK CONDUCTORS AND CONDUIT TO ACCOMMODATE ROOF REPLACEMENT. EXISTING DISCONNECT SHALL REMAIN CONNECTED TO UNIT.

MECHANICAL KEYNOTES: (M#)

1. REMOVE ROOF DRAIN. PRIOR TO DEMOLITION, CONTRACTOR SHALL REVIEW CONDITION OF ALL ROOF DRAINS WITH OWNER TO VERIFY QUANTITY AND LOCATION OF ROOF DRAINS THAT ARE ACCEPTABLE TO REMOVE, STORE, AND REINSTALL. CONTRACTOR SHALL CONFIRM OUTLET SIZE OF ALL ROOF DRAINS PRIOR TO REMOVAL.
2. REMOVE EXISTING EXHAUST FAN AND STORE FOR PROPER FLASHING OF THE EXISTING EQUIPMENT CURB AND ROOF REPLACEMENT. PERFORM PREBALANCING ON FAN PRIOR TO REMOVAL.
3. REMOVE ALL EXISTING NATURAL GAS PIPING AND VALVES FROM THE EXISTING METER AT THE GROUND LEVEL SHOWN ON SHEET MED200 TO THE EXISTING BOILER IN THE PENTHOUSE AND STORE FOR REINSTALLATION. CONTRACTOR SHALL CONFIRM EXISTING PIPE SIZES AND LOCATION OF SHUTOFF VALVE(S) PRIOR TO REMOVAL. REMOVE ALL HANGERS, BRACKETS, SUPPORTS, ETC.
4. REMOVE EXISTING ROOF HOOD AND STORE FOR PROPER FLASHING OF THE EXISTING CARRIER CHILLER UNIT PRIOR TO REMOVAL. REMOVE UNIT AND STORE FOR PROPER FLASHING OF THE EXISTING EQUIPMENT CURB AND ROOF REPLACEMENT. DISCONNECT AND CAP ALL EXISTING PIPING.
5. REMOVE EXISTING ROOF CURB.

MECHANICAL GENERAL NOTES:

1. PROTECT ALL ROOF OPENINGS FROM WEATHER DURING ROOF REPLACEMENT WHERE EQUIPMENT, CURBS, FIXTURES, DUCTWORK, ETC. IS REMOVED.



KEYPLAN

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STATE OF MISSOURI
 MICHAEL L. PARSON,
 GOVERNOR



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 CORRECTIONS

18701 OLD HIGHWAY 66
 PACIFIC, MISSOURI 63069

REPLACE ROOF
 INCLUDING SKY LIGHT
 ADMINISTRATION BLDG &
 HOUSING UNIT 5
 MISSOURI EASTERN
 CORRECTIONAL CENTER

PACIFIC MISSOURI

PROJECT # C1916-01
 SITE # 7007
 FACILITY # 9327007008

REVISION:
 DATE: _____
 REVISION:
 DATE: _____
 REVISION:
 DATE: _____
 ISSUE DATE: NOVEMBER 5, 2019

CAD DWG FILE:
 DRAWN BY: MASRYA/KATDEN
 CHECKED BY: MARHAR/RUSARN
 DESIGNED BY: MASRYA/KATDEN

SHEET TITLE:
 ROOF PLAN -
 MECHANICAL &
 ELECTRICAL
 DEMOLITION - AREA B

SHEET NUMBER:

MED201

17 OF 20 SHEETS
 11/05/2019



PROFESSIONAL SEAL



STATE OF MISSOURI
CERTIFICATE OF AUTHORITY #2018019473

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DIVISION OF FACILITIES
MANAGEMENT,
DESIGN AND CONSTRUCTION
DEPARTMENT OF
CORRECTIONS

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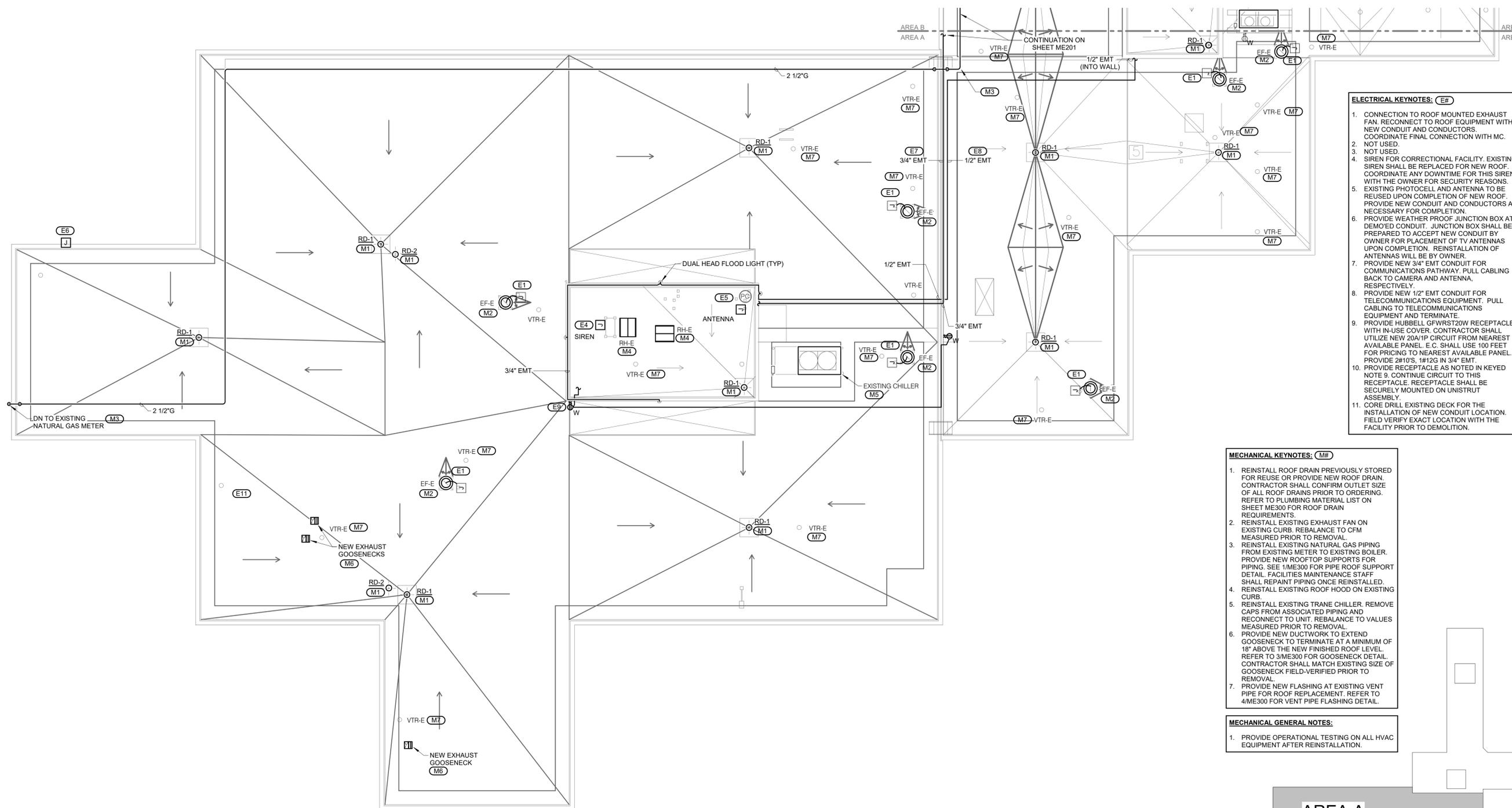
CAD DWG FILE:
DRAWN BY: MASRYA/KATDEN
CHECKED BY: MARHAR/RUSARN
DESIGNED BY: MASRYA/KATDEN

SHEET TITLE:
ROOF LEVEL -
MECHANICAL &
ELECTRICAL - AREA A

SHEET NUMBER:

ME200

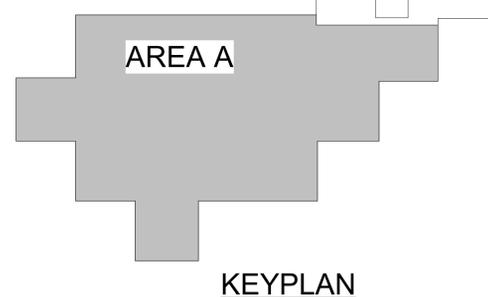
18 OF 20 SHEETS
11/05/2019



- ELECTRICAL KEYNOTES: (E#)**
1. CONNECTION TO ROOF MOUNTED EXHAUST FAN. RECONNECT TO ROOF EQUIPMENT WITH NEW CONDUIT AND CONDUCTORS. COORDINATE FINAL CONNECTION WITH MC.
 2. NOT USED.
 3. NOT USED.
 4. SIREN FOR CORRECTIONAL FACILITY. EXISTING SIREN SHALL BE REPLACED FOR NEW ROOF. COORDINATE ANY DOWNTIME FOR THIS SIREN WITH THE OWNER FOR SECURITY REASONS.
 5. EXISTING PHOTOCELL AND ANTENNA TO BE REUSED UPON COMPLETION OF NEW ROOF. PROVIDE NEW CONDUIT AND CONDUCTORS AS NECESSARY FOR COMPLETION.
 6. PROVIDE WEATHER PROOF JUNCTION BOX AT DEMO'D CONDUIT. JUNCTION BOX SHALL BE PREPARED TO ACCEPT NEW CONDUIT BY OWNER FOR PLACEMENT OF TV ANTENNAS UPON COMPLETION. REINSTALLATION OF ANTENNAS WILL BE BY OWNER.
 7. PROVIDE NEW 3/4\" EMT CONDUIT FOR COMMUNICATIONS PATHWAY. PULL CABLING BACK TO CAMERA AND ANTENNA, RESPECTIVELY.
 8. PROVIDE NEW 1/2\" EMT CONDUIT FOR TELECOMMUNICATIONS EQUIPMENT. PULL CABLING TO TELECOMMUNICATIONS EQUIPMENT AND TERMINATE.
 9. PROVIDE HUBBELL GFWRST20W RECEPTACLE WITH IN-USE COVER. CONTRACTOR SHALL UTILIZE NEW 20A/1P CIRCUIT FROM NEAREST AVAILABLE PANEL. E.C. SHALL USE 100 FEET FOR PRICING TO NEAREST AVAILABLE PANEL. PROVIDE 2#10'S, 1#12C IN 3/4\" EMT.
 10. PROVIDE RECEPTACLE AS NOTED IN KEYED NOTE 9. CONTINUE CIRCUIT TO THIS RECEPTACLE. RECEPTACLE SHALL BE SECURELY MOUNTED ON UNISTRUT ASSEMBLY.
 11. CORE DRILL EXISTING DECK FOR THE INSTALLATION OF NEW CONDUIT LOCATION. FIELD VERIFY EXACT LOCATION WITH THE FACILITY PRIOR TO DEMOLITION.

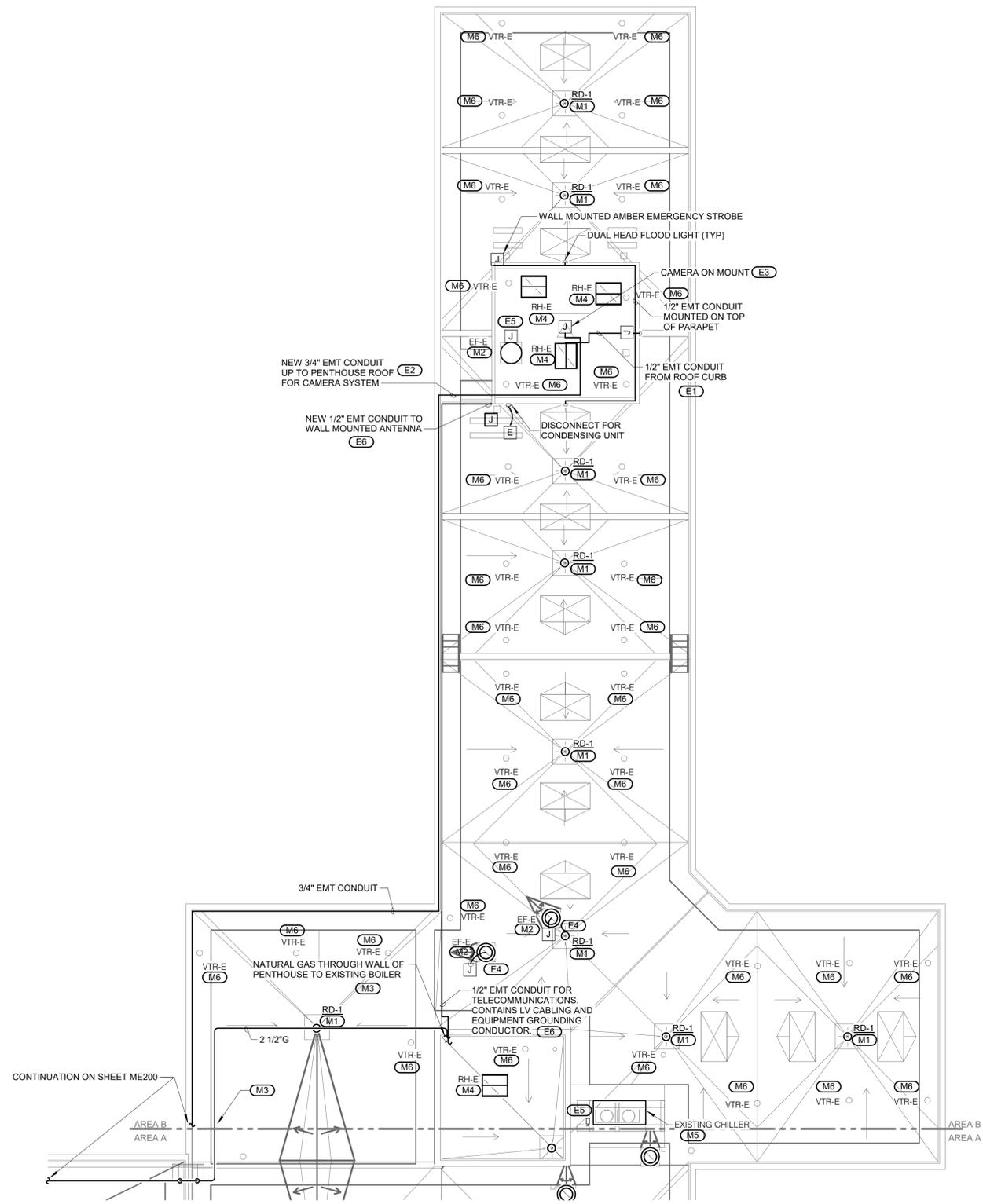
- MECHANICAL KEYNOTES: (M#)**
1. REINSTALL ROOF DRAIN PREVIOUSLY STORED FOR REUSE OR PROVIDE NEW ROOF DRAIN. CONTRACTOR SHALL CONFIRM OUTLET SIZE OF ALL ROOF DRAINS PRIOR TO ORDERING. REFER TO PLUMBING MATERIAL LIST ON SHEET ME300 FOR ROOF DRAIN REQUIREMENTS.
 2. REINSTALL EXISTING EXHAUST FAN ON EXISTING CURB. REBALANCE TO CFM MEASURED PRIOR TO REMOVAL.
 3. REINSTALL EXISTING NATURAL GAS PIPING FROM EXISTING METER TO EXISTING BOILER. PROVIDE NEW ROOFTOP SUPPORTS FOR PIPING. SEE 1/ME300 FOR PIPE ROOF SUPPORT DETAIL. FACILITIES MAINTENANCE STAFF SHALL REPAINT PIPING ONCE REINSTALLED.
 4. REINSTALL EXISTING ROOF HOOD ON EXISTING CURB.
 5. REINSTALL EXISTING TRANE CHILLER. REMOVE CAPS FROM ASSOCIATED PIPING AND RECONNECT TO UNIT. REBALANCE TO VALUES MEASURED PRIOR TO REMOVAL.
 6. PROVIDE NEW DUCTWORK TO EXTEND GOOSENECK TO TERMINATE AT A MINIMUM OF 18\" ABOVE THE NEW FINISHED ROOF LEVEL. REFER TO 3/ME300 FOR GOOSENECK DETAIL. CONTRACTOR SHALL MATCH EXISTING SIZE OF GOOSENECK FIELD-VERIFIED PRIOR TO REMOVAL.
 7. PROVIDE NEW FLASHING AT EXISTING VENT PIPE FOR ROOF REPLACEMENT. REFER TO 4/ME300 FOR VENT PIPE FLASHING DETAIL.

- MECHANICAL GENERAL NOTES:**
1. PROVIDE OPERATIONAL TESTING ON ALL HVAC EQUIPMENT AFTER REINSTALLATION.



1 ROOF LEVEL - MECHANICAL & ELECTRICAL - AREA A
3/32\" = 1'-0\"
NORTH

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Missouri State Certificate of Authority E-2017008530
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REFERENCE SCALE IN INCHES
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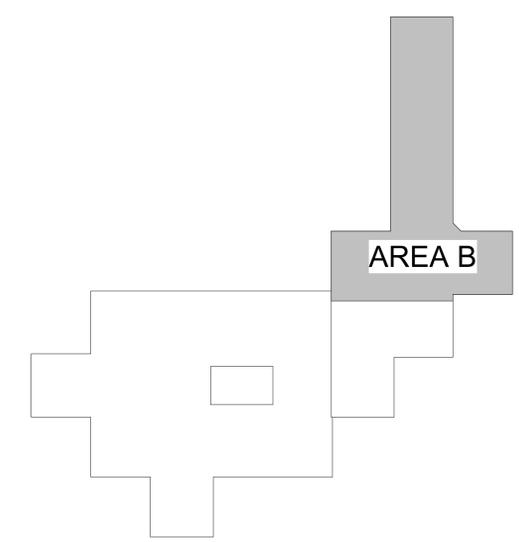


1 ROOF LEVEL - MECHANICAL & ELECTRICAL - AREA B
 3/32" = 1'-0"
 NORTH

- ELECTRICAL KEYNOTES: (EF)**
1. PROVIDE NEW 1/2" CONDUIT AND CABLING TO SERVE EXISTING LIGHTING FIXTURES. MATCH EXISTING CABLING TYPE.
 2. PROVIDE NEW 3/4" EMT CONDUIT FOR COMMUNICATIONS PATHWAY. PULL CABLING TO CAMERA AND ANTENNA, RESPECTIVELY, AND TERMINATE.
 3. REINSTALL EXISTING CAMERA ON SUPPORT. SUPPORT SHALL BE BALLASTED ON COMPLETION OF ROOF REPLACEMENT.
 4. CONNECTION TO ROOF MOUNTED EXHAUST FAN. CONTRACTOR SHALL RECONNECT TO ROOF EQUIPMENT WITH NEW CONDUIT AND CONDUCTORS UPON COMPLETION. COORDINATE FINAL CONNECTION WITH MC.
 5. CONNECTION TO ROOF MOUNTED HVAC EQUIPMENT. CONTRACTOR SHALL RECONNECT TO DISCONNECT UPON COMPLETION OF THE ROOF REPLACEMENT.
 6. PROVIDE NEW 1/2" EMT CONDUIT FOR TELECOMMUNICATIONS EQUIPMENT. PULL EXISTING CABLING TO TELECOMMUNICATIONS EQUIPMENT AND TERMINATE.

- MECHANICAL KEYNOTES: (MF)**
1. REINSTALL ROOF DRAIN PREVIOUSLY STORED FOR REUSE OR PROVIDE NEW ROOF DRAIN. CONTRACTOR SHALL CONFIRM OUTLET SIZE OF ALL ROOF DRAINS PRIOR TO ORDERING. REFER TO PLUMBING MATERIAL LIST ON SHEET ME300 FOR ROOF DRAIN REQUIREMENTS.
 2. REINSTALL EXISTING EXHAUST FAN ON EXISTING CURB. REBALANCE TO CFM MEASURED PRIOR TO REMOVAL.
 3. REINSTALL EXISTING NATURAL GAS PIPING FROM EXISTING METER TO EXISTING BOILER. PROVIDE NEW ROOFTOP SUPPORTS FOR PIPING. SEE 1ME300 FOR PIPE ROOF SUPPORT DETAIL. FACILITY'S MAINTENANCE STAFF SHALL REPAINT PIPING ONCE REINSTALLED.
 4. REINSTALL EXISTING ROOF HOOD ON EXISTING CURB.
 5. REINSTALL EXISTING CARRIER CHILLER. REMOVE CAPS FROM ASSOCIATED PIPING AND RECONNECT TO UNIT. REBALANCE TO VALUES MEASURED PRIOR TO REMOVAL.
 6. PROVIDE NEW FLASHING AT EXISTING VENT PIPE FOR ROOF REPLACEMENT. REFER TO 4ME300 FOR VENT PIPE FLASHING DETAIL.

- MECHANICAL GENERAL NOTES:**
1. PROVIDE OPERATIONAL TESTING ON ALL HVAC EQUIPMENT AFTER REINSTALLATION.



KEYPLAN

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STATE OF MISSOURI
 MICHAEL L PARSON,
 GOVERNOR



PROFESSIONAL SEAL



STATE OF MISSOURI
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SHEET TITLE:
 ROOF LEVEL -
 MECHANICAL &
 ELECTRICAL - AREA B

SHEET NUMBER:
ME201
 19 OF 20 SHEETS
 11/05/2019



PROFESSIONAL SEAL



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SHEET TITLE:
MECHANICAL &
ELECTRICAL -
DETAILS &
SCHEDULES

SHEET NUMBER:

ME300

20 OF 20 SHEETS
11/05/2019

PLUMBING MATERIAL LIST

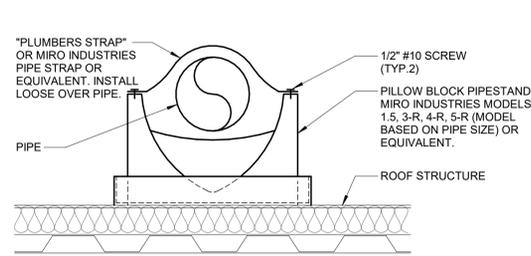
THE SYMBOLS AND THE MATERIAL LIST ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEMS, WHETHER SPECIFIED OR NOT.

CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE, BUT ARE GIVEN AS AN AID TO THE CONTRACTOR AND TO INDICATE THE QUALITY REQUIRED. CONTRACTOR IS RESPONSIBLE FOR COMPLETE DESCRIPTION OF MATERIAL ON THESE DRAWINGS AND IN THE SPECIFICATIONS BEFORE ORDERING. THE DESCRIPTION OF THE MATERIAL TAKES PRECEDENCE OVER THE CATALOG NUMBER. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.

CONTRACTOR SHALL VERIFY THAT FIXTURE SUPPLIED ARE APPROVED PER ALL APPLICABLE STATE, LOCAL, AND GOVERNING AUTHORITIES.

ALL FIXTURES SHALL CONFORM TO FEDERAL ACT S.3874.

TAG	DESCRIPTION	ACCEPTABLE MANUFACTURERS
RD-1	ROOF DRAIN - CAST IRON BODY, SECURED CAST IRON DOME, 15" ROUND, BOTTOM OUTLET, FLASHING CLAMP, GRAVEL STOP, UNDERDECK CLAMP, BEARING PAN, ADJUSTABLE EXTENSION TO MATCH INSULATION THICKNESS, OUTLET SIZE AS LISTED ON DRAWINGS.	ZURN (Z100), SMITH, WADE, JOSAM, WATTS, MIFAB, SUN, FROET
RD-2	ROOF DRAIN - CAST IRON BODY, SECURED CAST IRON DOME, 15" ROUND, BOTTOM OUTLET, FLASHING CLAMP, GRAVEL STOP, UNDERDECK CLAMP, BEARING PAN, ADJUSTABLE EXTENSION TO MATCH INSULATION THICKNESS, 4" TALL INTERNAL STANDPIPE, OUTLET SIZE AS LISTED ON DRAWINGS.	ZURN (Z100-W2), SMITH, WADE, JOSAM, WATTS, MIFAB

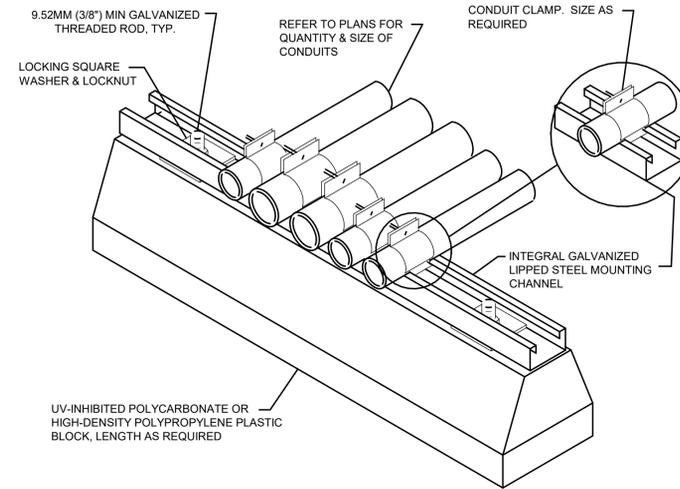


NOTES:

- SPACE STANDS AS REQUIRED TO MEET MANUFACTURERS RATED CAPACITIES.
- COORDINATE PIPESTAND LOCATIONS WITH G.C.
- PROVIDE EPDM PAD TO PROTECT ROOF IF REQUIRED BY ROOFING MANUFACTURER.
- MIRO INDUSTRIES (800)788-8978.

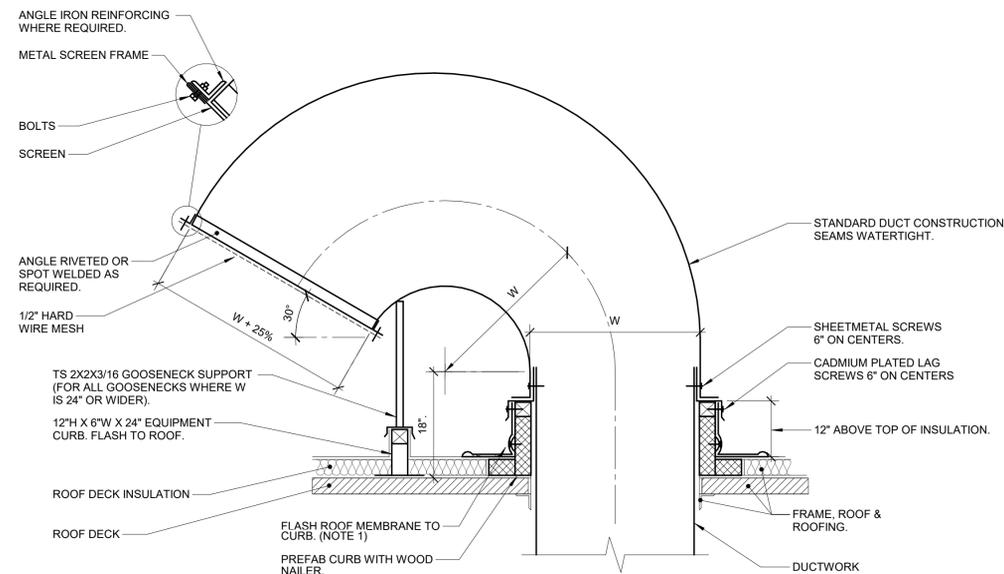
1 PIPE ROOF SUPPORT DETAIL

NO SCALE



2 CONDUIT ROOF SUPPORT DETAIL

NO SCALE

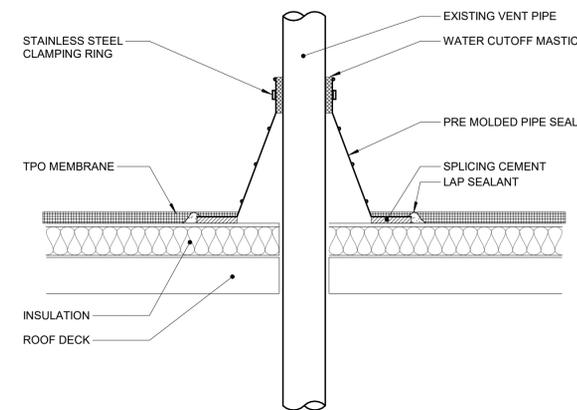


3 GOOSENECK DETAIL (MEMBRANE ROOF)

NO SCALE

NOTES:

- ALL ROOF FLASHING SHALL BE PER ROOF MANUFACTURER'S RECOMMENDATIONS.



4 VENT PIPE FLASHING

NO SCALE