Attachment L
Drawings and Specifications

ROOFING REPLACEMENT

CENTRAL DETENTION FACILITY

1901 D STREET, SE
WASHINGTON DC

BLUEFIN

BLUEFIN LLC CORPORATE OFFICE
6312 S. Fiddlers Green Circle Suite 100E
Greenwood Village, CO 80111
TEL: 866-735-0728

MID-ATLANTIC OFFICE
2134 Espey Court Suite 14
Crofton, MD 21114
TEL: 410-881-0221

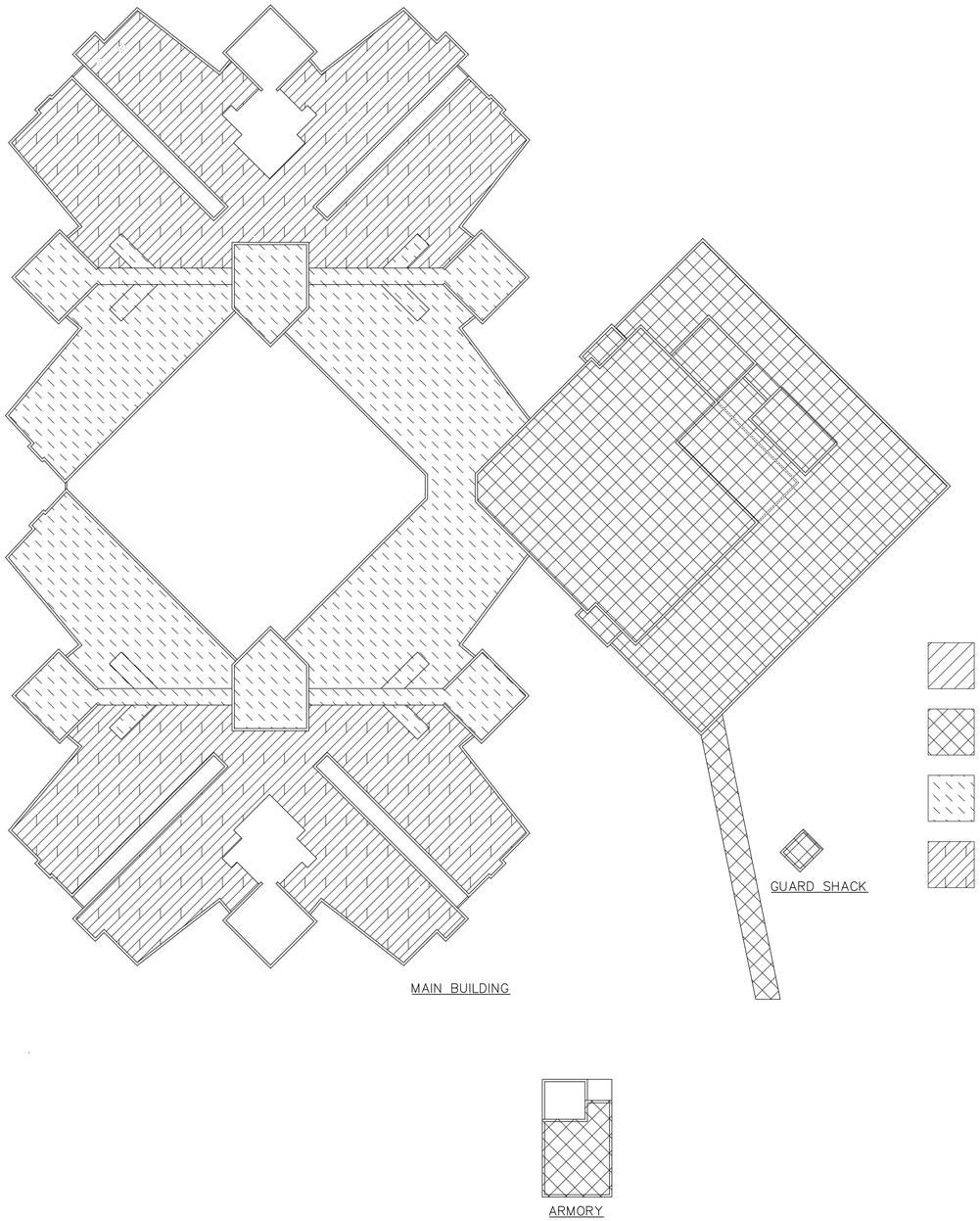
DISTRICT OF COLUMBIA
DEPARTMENT OF CORRECTIONS

AERIAL SITE PHOTO

DRAWING INDEX

DRAWING TITLE
COVER PAGE

SHEET NUMBER
C1.0



PHASE 1: (COMPLETED)

PHASE 2: TYPE 1 & TYPE 3 ROOFS

PHASE 3: TYPE 1 ROOF

PHASE 4: TYPE 2 ROOF (HOT RUBBERIZED ASPHALT)

KEY ROOF PLAN
N.T.S

N

Actual Size to read at scale
0 IN 1 IN 2 IN

BLUEFIN

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PROJECT
ROOFING REPLACEMENT

Central Detention Facility
1901 D Street, SE
Washington DC

District of Columbia
Department of Corrections

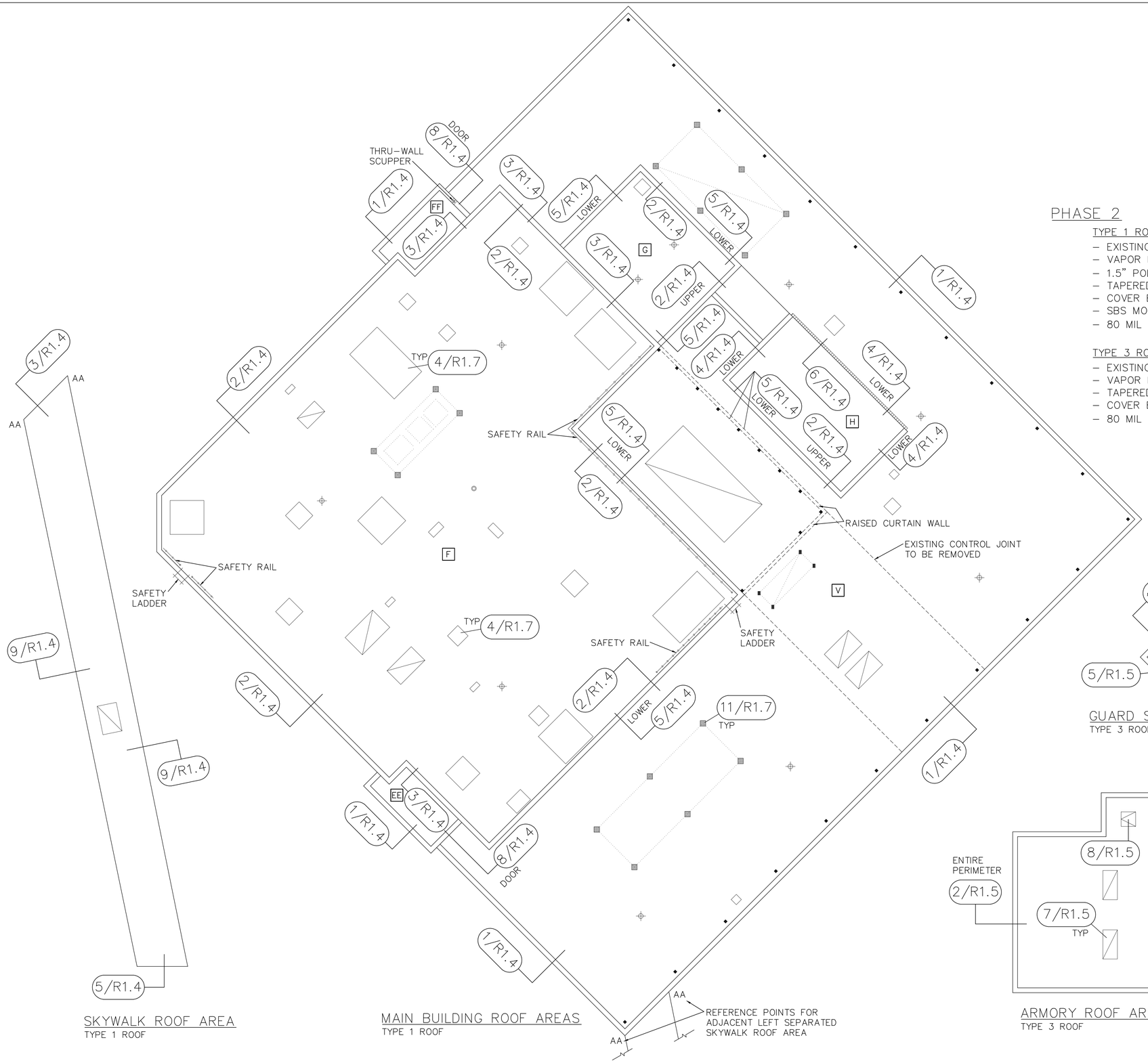
DRAWING DATES

NUMBER	DATE	COMMENTS
	3/11/16	95% REVIEW SET

IN-PROGRESS
NOT FOR
CONSTRUCTION

DRAWING TITLE
KEY ROOF PLAN PHASES AND ROOF TYPES

SHEET NUMBER
R1.0



PHASE 2

TYPE 1 ROOF
- EXISTING CONCRETE DECK (PRIME)
- VAPOR BARRIER
- 1.5" POLYISOCYANURATE INSULATION
- TAPERED POLYISOCYANURATE INSULATION
- COVER BOARD
- SBS MODIFIED BASE SHEET
- 80 MIL PVC ROOF MEMBRANE (ADHERED)

TYPE 3 ROOF
- EXISTING CONCRETE DECK (PRIME)
- VAPOR BARRIER
- TAPERED POLYISOCYANURATE INSULATION
- COVER BOARD
- 80 MIL PVC ROOF MEMBRANE (ADHERED)

PHASE 2 ROOF PLANS
N.T.S

KEY
- ⊡ – ROOF AREA DESIGNATION
- ◆ – ROOF DRAIN
- ✕ – THRU-WALL SCUPPER
- ◢ – ROOF EDGE SCUPPER
- ▤ – GUTTER EDGE
- ☐ – CURBED OPENING
- ☑ – H.V.A.C. CURB
- ☑ – ROOF HATCH
- ☒ – SKYLIGHT
- ⊠ – CURBED STACK
- ▨ – CHIMNEY
- ☑ – PIPE PORTAL CURB
- ⊓ – ROOF LADDER
- ○ – PIPE VENT
- + – SOL STACK
- ✓ – SMALL PIPE PENETRATION
- ▪ – PITCH PAN
- ▬ – EXPANSION JOINT
- ⎓ – SLOPE TRANSITION
- AB – ABANDONED EQUIPMENT

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0 IN 1 IN 2 IN

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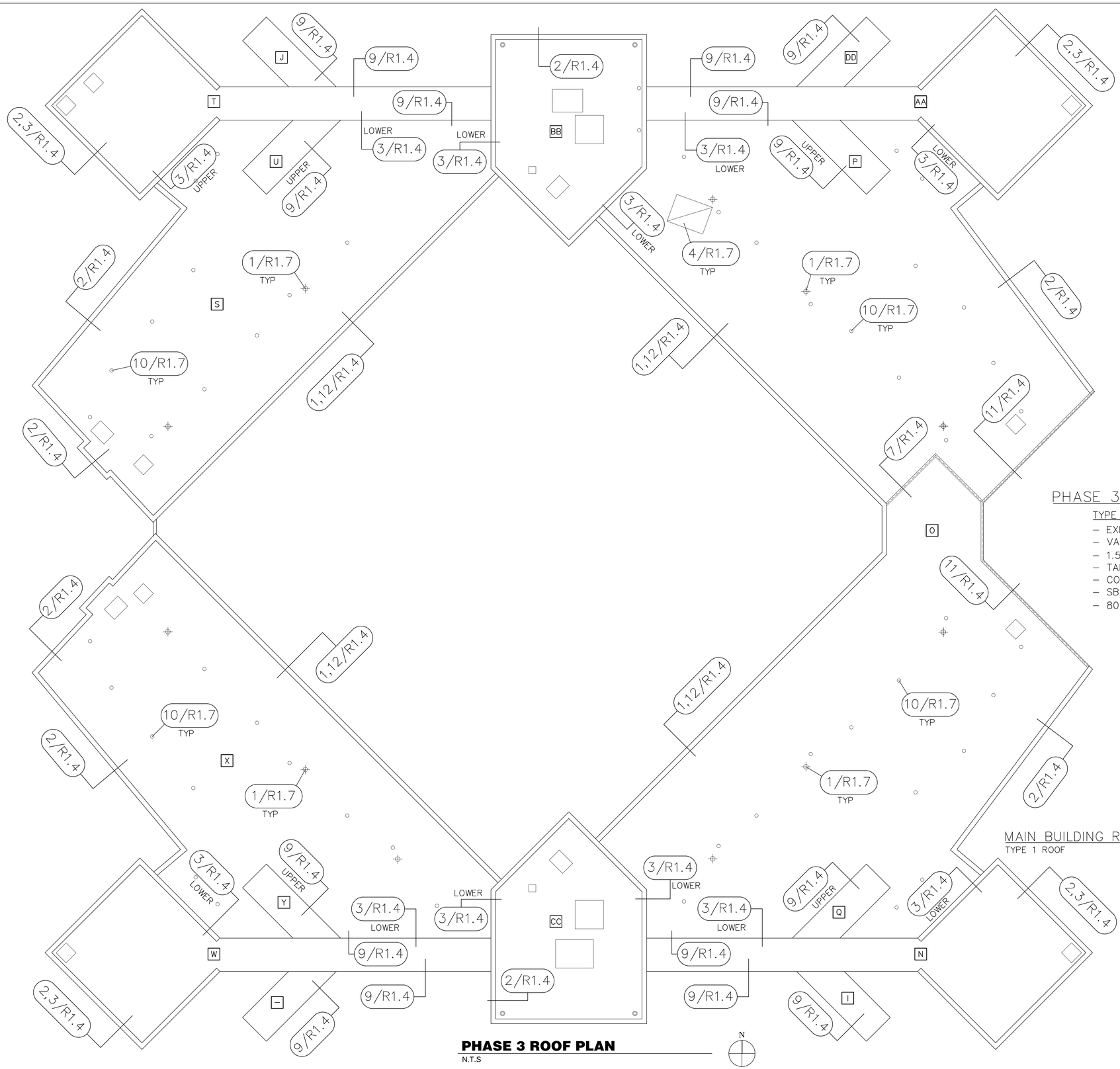
DRAWING TITLE
PHASE 2 ROOF PLANS

SHEET NUMBER
R1.1



PHASE 3 ROOF PLAN

N.T.S

N

PHASE 3

TYPE 1 ROOF

- EXISTING CONCRETE DECK (PRIME)
- VAPOR BARRIER
- 1.5" POLYISOCYANURATE INSULATION
- TAPERED POLYISOCYANURATE INSULATION
- COVER BOARD
- SBS MODIFIED BASE SHEET
- 80 MIL PVC ROOF MEMBRANE (ADHERED)

MAIN BUILDING ROOF AREAS

TYPE 1 ROOF

KEY

⊡	– ROOF AREA DESIGNATION
⊕	– ROOF DRAIN
M	– THRU-WALL SCUPPER
⊞	– ROOF EDGE SCUPPER
‖	– GUTTER EDGE
□	– CURBED OPENING
▽	– H.V.A.C. CURB
⊠	– ROOF HATCH
⊠	– SKYLIGHT
⊠	– CURBED STACK
▨	– CHIMNEY
⊠	– PIPE PORTAL CURB
⊓	– ROOF LADDER
o	– PIPE VENT
⊹	– SOIL STACK
⚡	– SMALL PIPE PENETRATION
▪	– PITCH PAN
⟷	– EXPANSION JOINT
⟋	– SLOPE TRANSITION
AB	– ABANDONED EQUIPMENT

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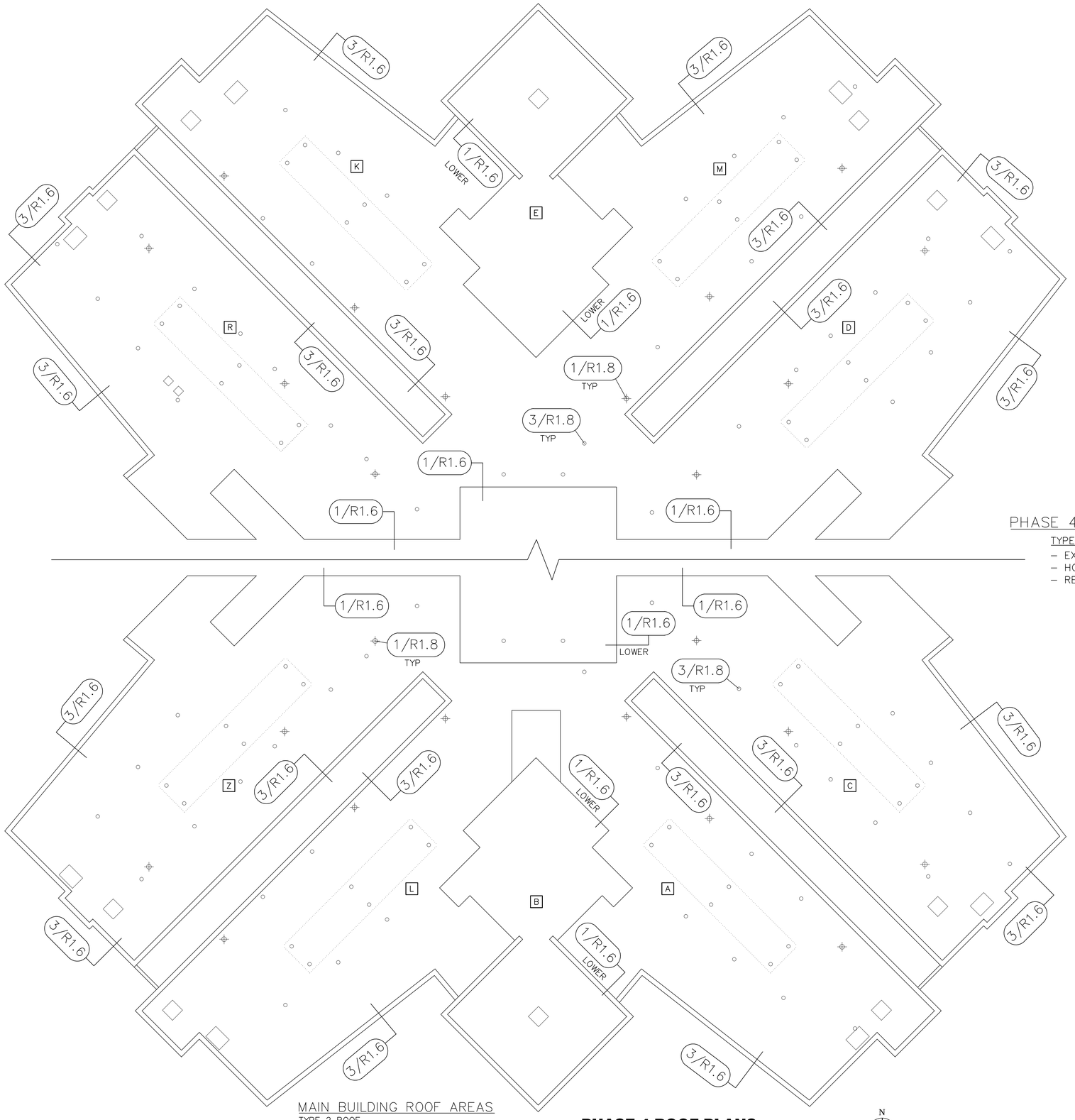
DRAWING TITLE

PHASE 3 ROOF PLAN

SHEET NUMBER

R1.2



PHASE 4

TYPE 2 ROOF

- EXISTING CONCRETE DECK (PRIME)
- HOT RUBBERIZED ASPHALT
- REINFORCED HFA SYSTEM WITH SBS CAP SHEET

MAIN BUILDING ROOF AREAS
TYPE 2 ROOF

PHASE 4 ROOF PLANS
N.T.S

N

KEY

(X)	– ROOF AREA DESIGNATION
✚	– ROOF DRAIN
M	– THRU-WALL SCUPPER
▲	– ROOF EDGE SCUPPER
═	– GUTTER EDGE
□	– CURBED OPENING
▽	– H.V.A.C. CURB
⊠	– ROOF HATCH
⊠	– SKYLIGHT
⊠	– CURBED STACK
▤	– CHIMNEY
⊓	– PIPE PORTAL CURB
⊓	– ROOF LADDER
○	– PIPE VENT
○	– SOIL STACK
✓	– SMALL PIPE PENETRATION
●	– PITCH PAN
⇔	– EXPANSION JOINT
⋰	– SLOPE TRANSITION
AB	– ABANDONED EQUIPMENT

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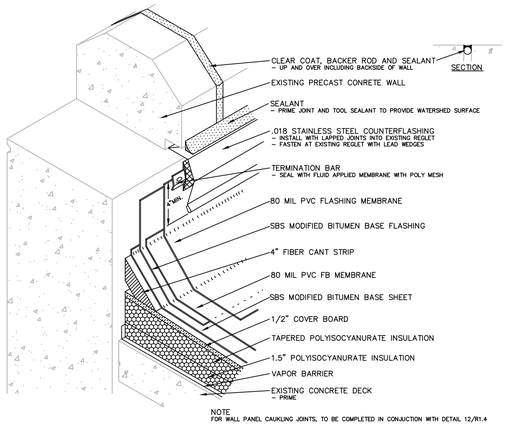
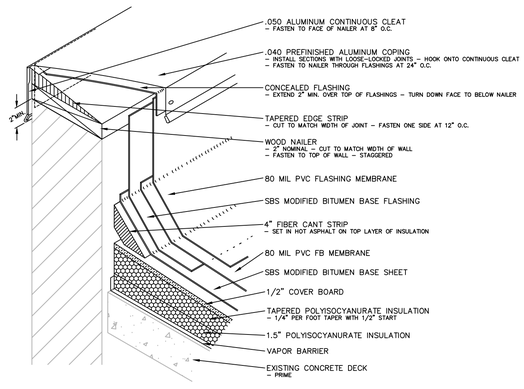
DRAWING TITLE
PHASE 4 ROOF PLANS

SHEET NUMBER
R1.3

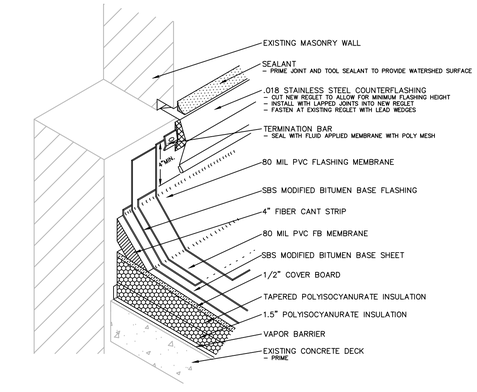


NOTE
FOR WALL PANEL CAULKING JOINTS, TO BE COMPLETED IN CONJUCTION WITH DETAIL 12/R1.4

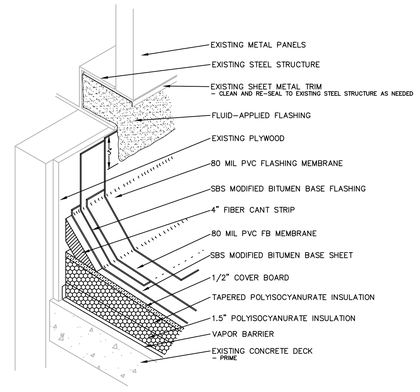
1 PARAPET FLASHING
N.T.S



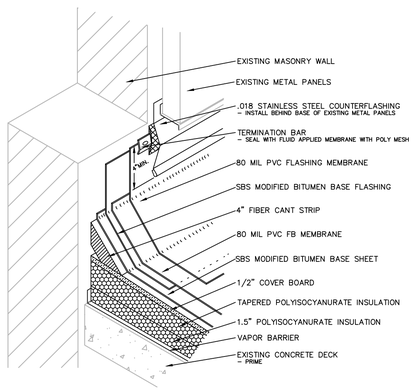
2 PARAPET FLASHING
N.T.S



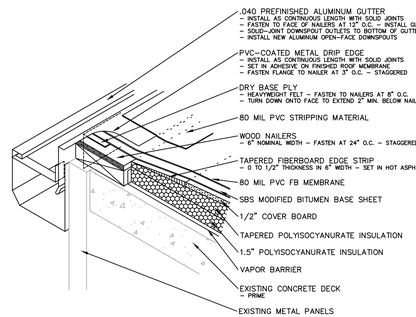
3 WALL FLASHING
N.T.S



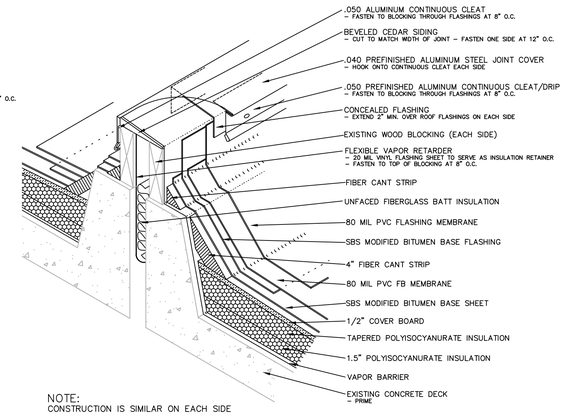
4 WALL FLASHING
N.T.S



5 WALL FLASHING
N.T.S

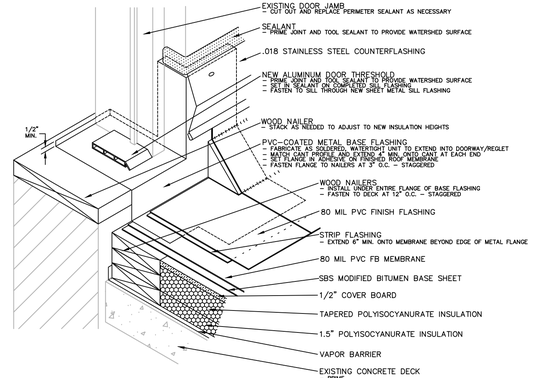


6 GUTTER EDGE
N.T.S

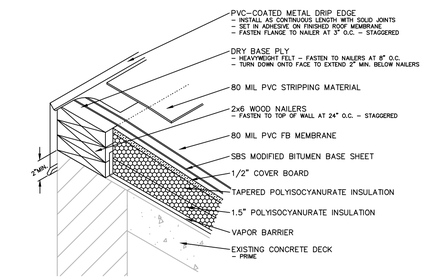


NOTE:
CONSTRUCTION IS SIMILAR ON EACH SIDE

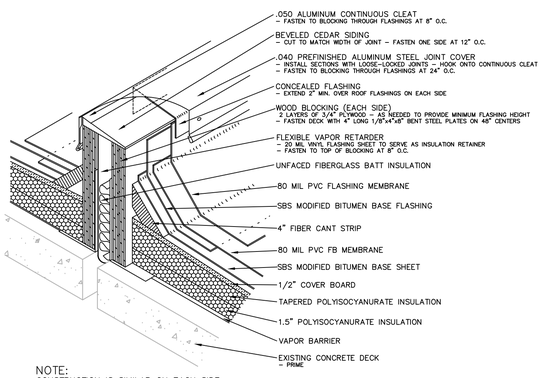
7 EXPANSION JOINT FLASHING
N.T.S



8 DOOR THRESHOLD FLASHING
N.T.S

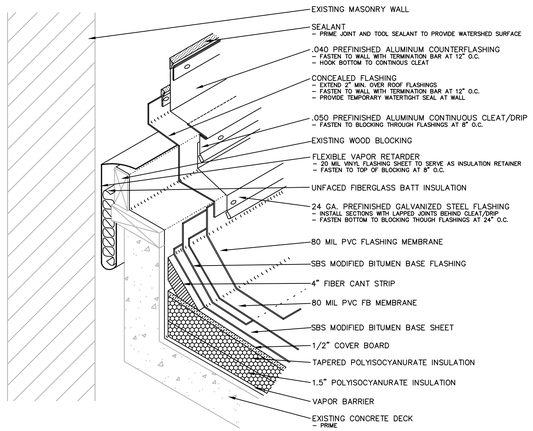


9 ROOF EDGE FLASHING
N.T.S

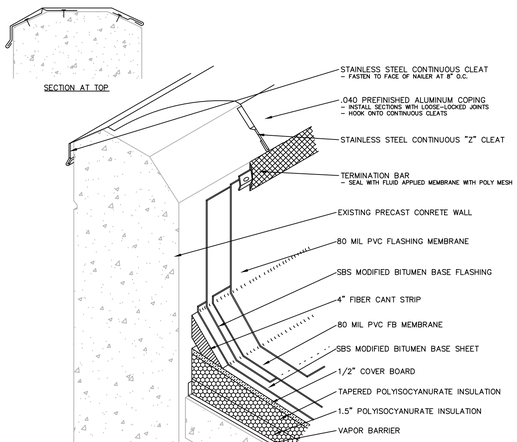


NOTE:
CONSTRUCTION IS SIMILAR ON EACH SIDE

10 CONTROL JOINT FLASHING
N.T.S



11 WALL EXPANSION JOINT FLASHING
N.T.S



12 PARAPET FLASHING ALT. ADD. 2
N.T.S

Actual Size to read at scale
0 IN 1 IN 2 IN

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	3/11/16	95% REVIEW SET

IN-PROGRESS
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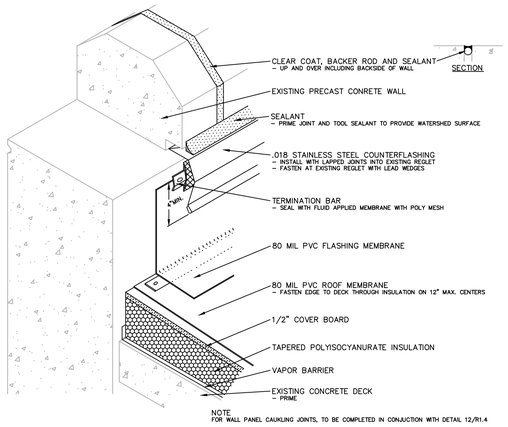
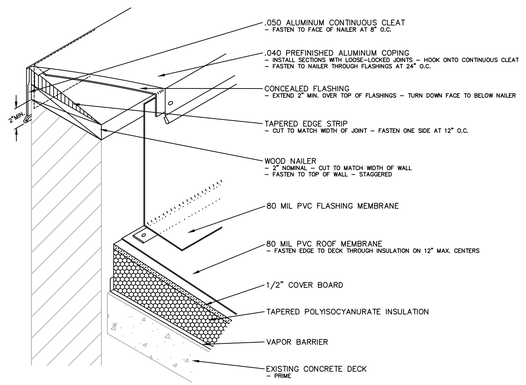
CONSTRUCTION

DRAWING TITLE
ROOF DETAILS - TYPE 1 ROOF

SHEET NUMBER
R1.4



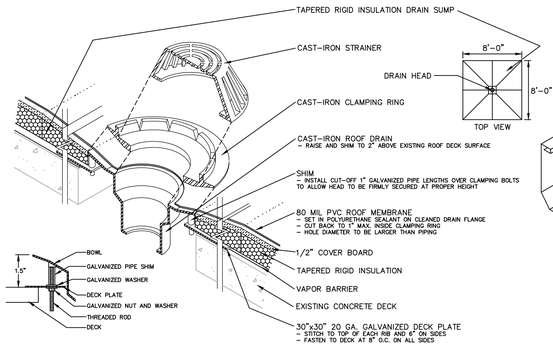
1 PARAPET FLASHING
N.T.S



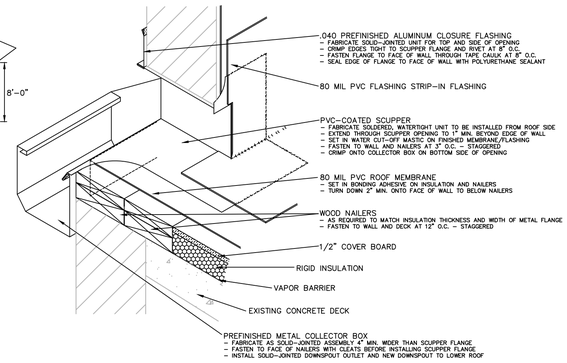
2 PARAPET FLASHING
N.T.S

3 NOT USED
N.T.S

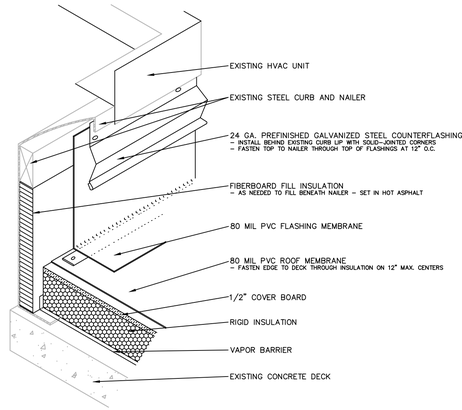
4 NOT USED
N.T.S



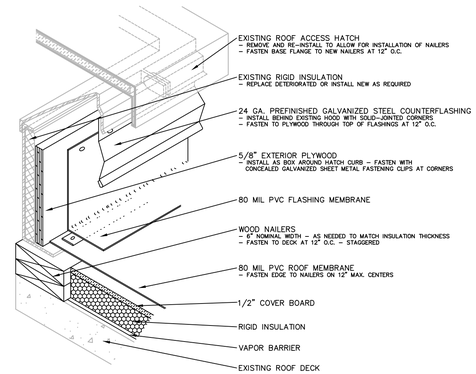
5 TYPICAL ROOF DRAIN
N.T.S



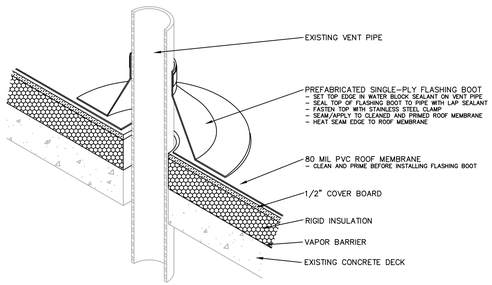
6 TYPICAL SCUPPER
N.T.S



7 TYPICAL HVAC CURB
N.T.S



8 TYPICAL ROOF HATCH
N.T.S



9 TYPICAL VENT PIPE
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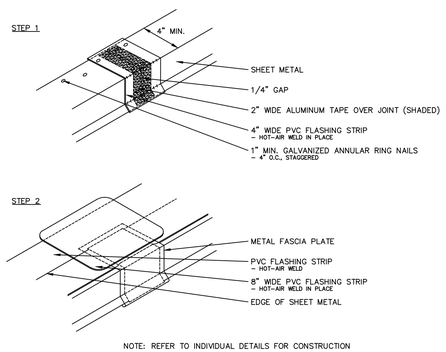

NOTE: REFER TO INDIVIDUAL DETAILS FOR CONSTRUCTION

10 TYPICAL METAL JOINT FABRICATION
N.T.S

11 NOT USED
N.T.S

12 NOT USED
N.T.S

Actual Size to read at scale
2 IN
1 IN
0 IN

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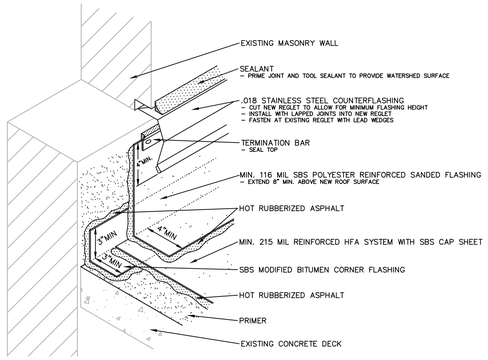
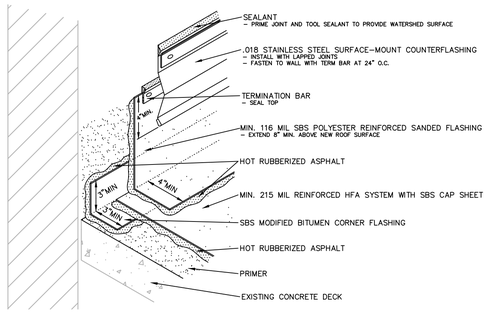
DRAWING TITLE
ROOF / TYPICAL DETAILS - TYPE 3 ROOF

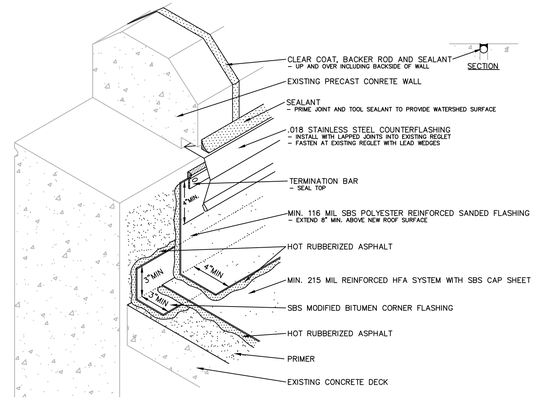
SHEET NUMBER
R1.5



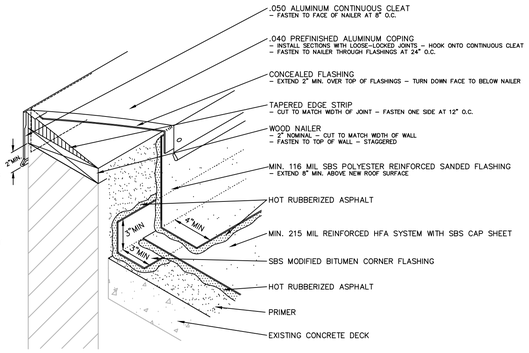
1 WALL FLASHING
N.T.S



2 WALL FLASHING
N.T.S



3 PARAPET FLASHING
N.T.S



4 PARAPET FLASHING
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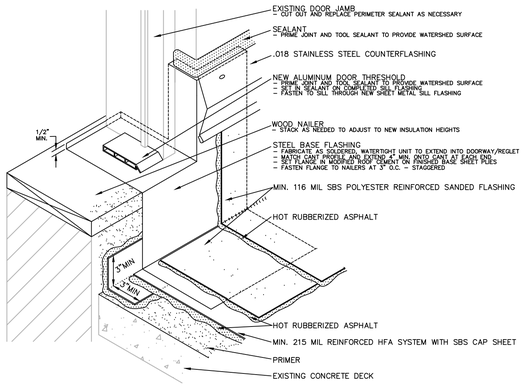
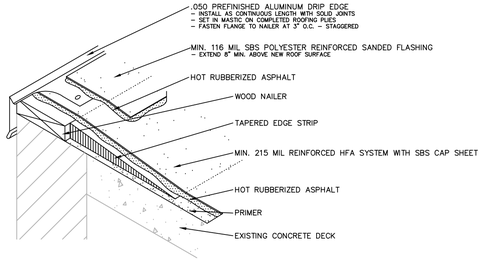
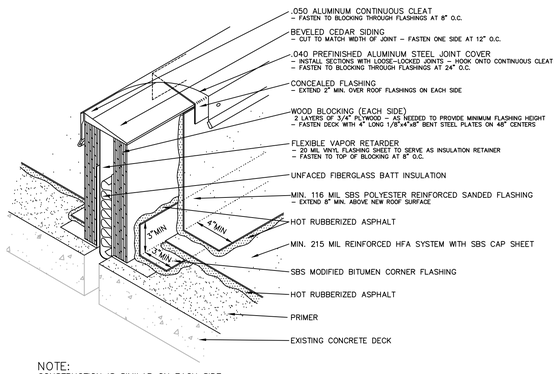


5 DOOR THRESHOLD FLASHING
N.T.S



6 ROOF EDGE FLASHING
N.T.S



NOTE:
CONSTRUCTION IS SIMILAR ON EACH SIDE

7 CONTROL JOINT FLASHING
N.T.S

8 NOT USED
N.T.S

9 NOT USED
N.T.S

10 NOT USED
N.T.S

11 NOT USED
N.T.S

12 NOT USED
N.T.S

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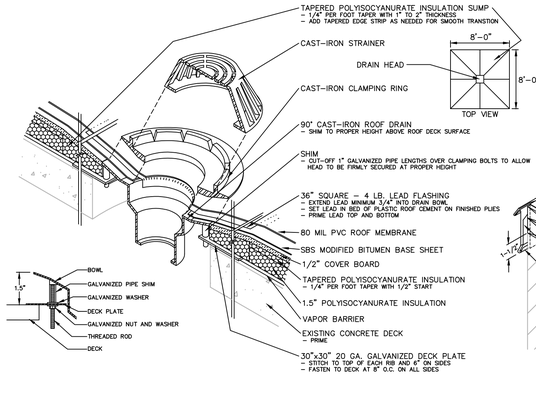
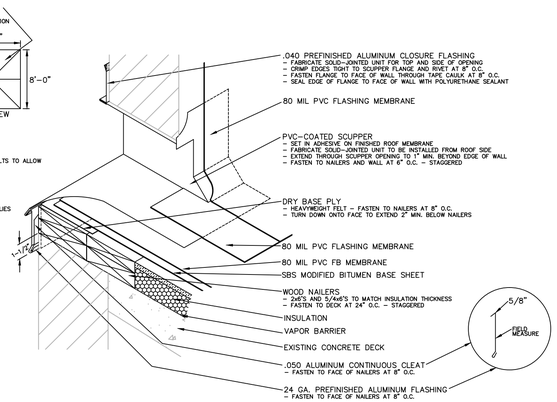
ROOF DETAILS - TYPE 2 ROOF

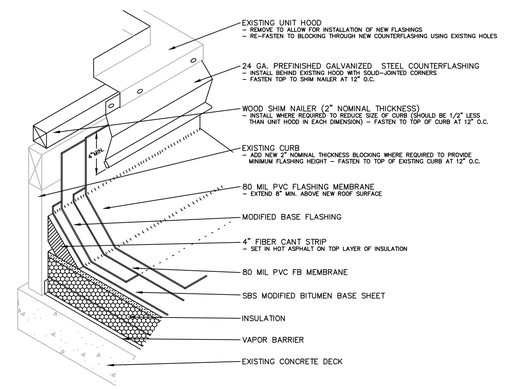
SHEET NUMBER
R1.6



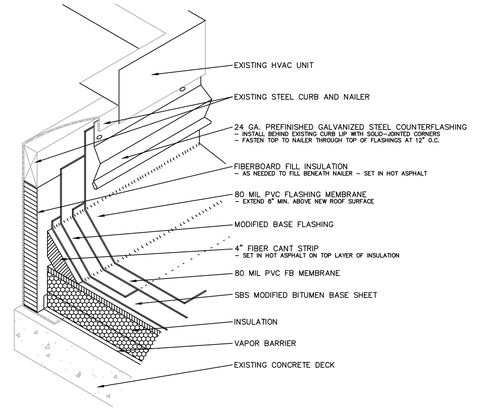
1 TYPICAL ROOF DRAIN
N.T.S



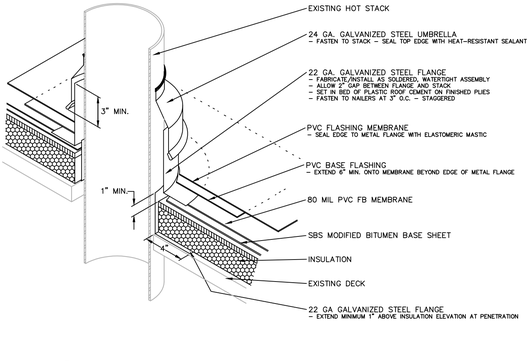
2 TYPICAL SCUPPER
N.T.S



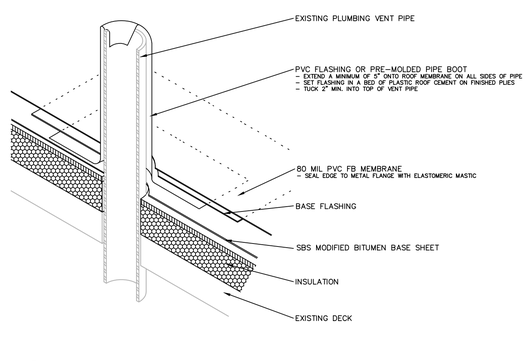
3 TYPICAL EXHAUST CURB
N.T.S



4 TYPICAL HVAC CURB
N.T.S

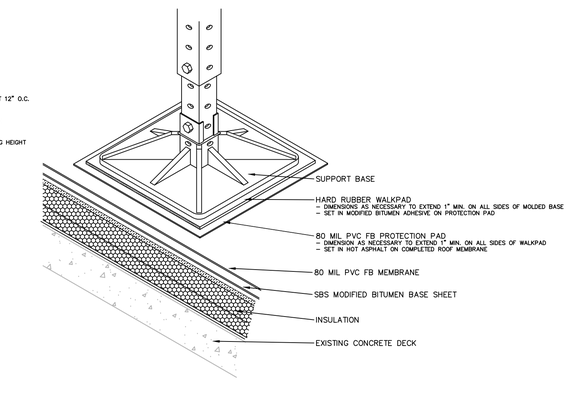


5 ROOF HATCH FLASHING
N.T.S

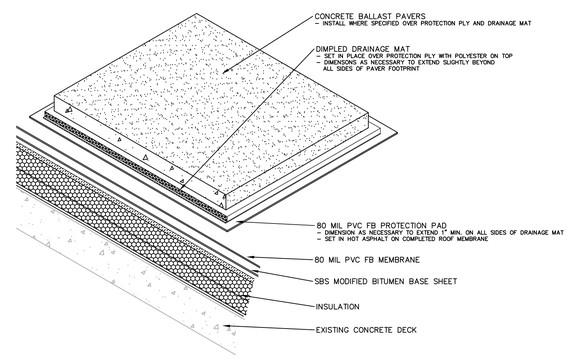


NOTE:
CONSTRUCTION IS SINILAR ON EACH SIDE

6 RAIL CURB SUPPORT
N.T.S



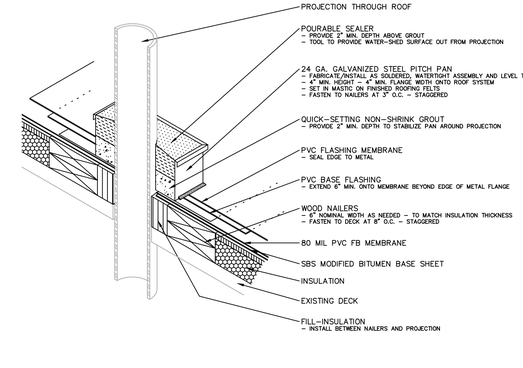
7 SUPPORT BASE
N.T.S



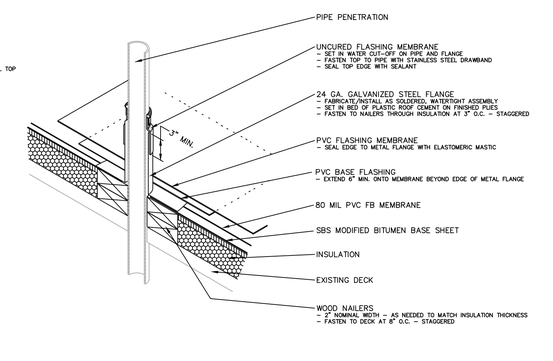
8 PAVER MEMBRANE PROTECTION
N.T.S

9 TYPICAL HOT STACK
N.T.S

10 TYPICAL SOIL STACK
N.T.S



11 TYPICAL PITCH PAN
N.T.S



12 TYPICAL PIPE PENETRATION
N.T.S

Actual Size to read at scale
2 IN
1 IN
0 IN

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Greenwood Village, CO 80111
TEL: 866-735-0728

MID-ATLANTIC OFFICE
2134 Espey Court Suite 14
Crofton, MD 21114
TEL: 410-881-0221

PROJECT
ROOFING REPLACEMENT

Central Detention Facility
1901 D Street, SE
Washington DC

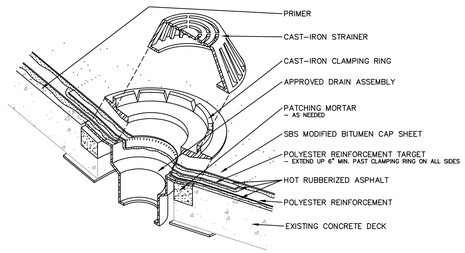
District of Columbia Department of Corrections

DRAWING DATES

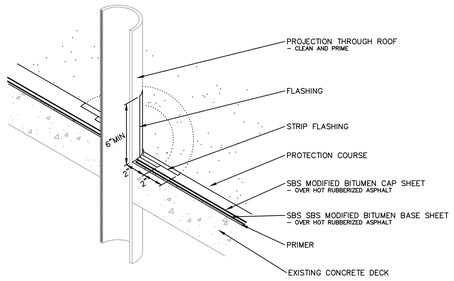
NUMBER	DATE	COMMENTS
		IN-PROGRESS NOT FOR CONSTRUCTION
	3/11/16	95% REVIEW SET

DRAWING TITLE
TYPICAL ROOF DETAILS - TYPE 1 ROOF

SHEET NUMBER
R1.7



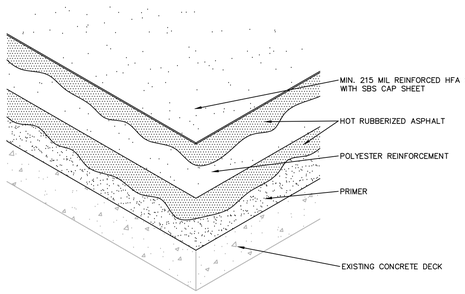
1 ROOF DRAIN
N.T.S



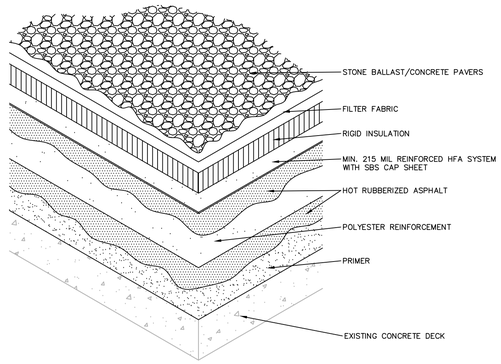
2 DETAIL
N.T.S

3 PIPE PENETRATION
N.T.S

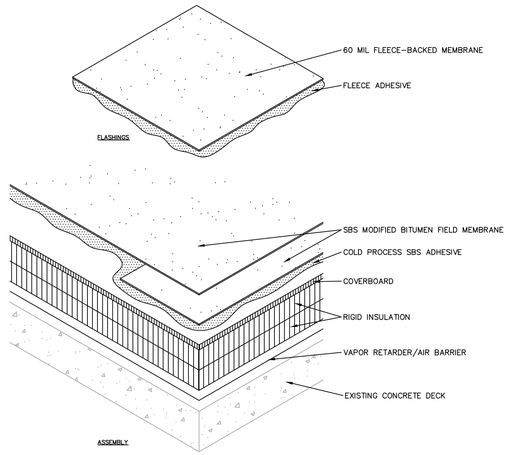
4 NOT USED
N.T.S



5 TYPICAL ROOF ASSEMBLY
N.T.S

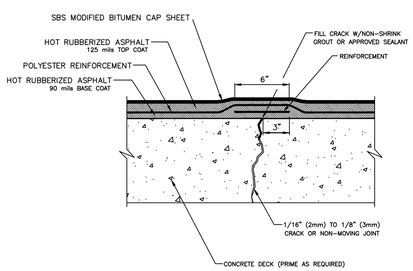


6 TYPICAL ROOF ASSEMBLY
N.T.S

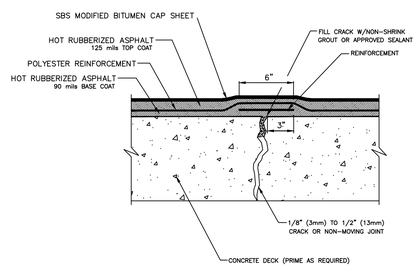


7 TYPICAL ROOF ASSEMBLY
N.T.S

8 NOT USED
N.T.S



9 NON-MOVING JOINT UP TO 1/8"
N.T.S



10 NON-MOVING JOINT UP TO 1/2"
N.T.S

11 NOT USED
N.T.S

12 NOT USED
N.T.S

Actual Size to read at scale
0 IN 1 IN 2 IN

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PROJECT
ROOFING REPLACEMENT

Central Detention Facility
1901 D Street, SE
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District of Columbia Department of Corrections

DRAWING DATES

NUMBER	DATE	COMMENTS
	3/11/16	95% REVIEW SET

IN-PROGRESS
NOT FOR
CONSTRUCTION

DRAWING TITLE
TYPICAL ROOF DETAILS - TYPE 2 ROOF

SHEET NUMBER
R1.8

TABLE OF CONTENTS

DIVISION 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS

DIVISION 01 - GENERAL REQUIREMENTS

DIVISION 02 - EXISTING CONDITIONS

DIVISION 03 - CONCRETE

DIVISION 05 - METALS

DIVISION 06 - WOOD, PLASTICS, AND COMPOSITES

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

SECTION 00 0102 - PROJECT INFORMATION

PART 1 GENERAL

1.01 PROJECT IDENTIFICATION

A. [illegible]

B. [illegible]

[illegible]

[illegible] 3-53[illegible].

C. [illegible]

D. [illegible]

1.02 PROJECT DESCRIPTION

A. [illegible]

1. [illegible]

B. [illegible]

1.03 PROJECT CONSULTANTS

A. [illegible]

1. [illegible]

2. [illegible]

3. [illegible] 3-[illegible]5[illegible]-[illegible].

1.04 PROCUREMENT DOCUMENTS

A. [illegible]

1. [illegible]

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

SECTION 00 4100 - BID FORM

Please see RFP-Form of Offeror Letter

END OF BID FORM

SECTION 01 1000 - SUMMARY

PART 1 GENERAL

1.01 PROJECT

A. [illegible]

B. [illegible]

C. [illegible]

D. [illegible]

1.02 CONTRACT DESCRIPTION

A. [illegible] 5[illegible]

1.03 DESCRIPTION OF ALTERATIONS WORK

A. [illegible]

B. [illegible]

C. [illegible]

D. [illegible]

E. [illegible]
   1. [illegible]

F. [illegible]

G. [illegible]

1.04 WORK BY CONTRACTOR

A. [illegible]

B. [illegible] 3[illegible]

C. [illegible]

D. [illegible]

E. [illegible]

F. [illegible]

G. [illegible]

H. [illegible]

I. [illegible]

J. [illegible]

K. [illegible] 8[illegible]

[illegible]

M. [illegible]

3. [illegible]

1.05 WORK BY OWNER

[illegible]

1.06 OWNER OCCUPANCY

[illegible]

1.07 CONTRACTOR USE OF SITE AND PREMISES

[illegible]

3. [illegible]

[illegible]

1.08 WORK SEQUENCE/PHASING

[illegible]

END OF SECTION

SECTION 01 2200 - UNIT PRICES

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 01 3000 - ADMINISTRATIVE REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]

1.02 PROJECT COORDINATION

- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
  1. [illegible]
  2. [illegible]
  3. [illegible]
  4. [illegible]
  5. [illegible]
  6. [illegible]
  7. [illegible]
  8. [illegible]
  9. [illegible]

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 PRECONSTRUCTION MEETING

- [illegible]
- [illegible]
  1. [illegible]
  2. [illegible]
  3. [illegible]
  4. [illegible]
  5. [illegible]
  6. [illegible]
- [illegible]
  1. [illegible]
  2. [illegible]

3. [illegible]

□. [illegible]

5. [illegible]

□. [illegible]

□. [illegible]

□. [illegible]

3.02 SITE MOBILIZATION MEETING

□. [illegible]

□. [illegible]

□. [illegible]

□. [illegible]

3. [illegible]

□. [illegible]

5. [illegible]

□. [illegible]

□. [illegible]

□. [illegible]

□. [illegible]

3. [illegible]

□. [illegible]

5. [illegible]

□. [illegible]

□. [illegible]

8. [illegible]

□. [illegible]

□. [illegible]

3.03 PROGRESS MEETINGS

□. [illegible]

□. [illegible]

□. [illegible]

□. [illegible]

3. [illegible]

□. [illegible]

5. [illegible]

□. [illegible]

□. [illegible]

□. [illegible]

3. [illegible]

□. [illegible]

5. [illegible]

[illegible]

[illegible]

8. [illegible]

[illegible]

[illegible]

[illegible]

3.04 CONSTRUCTION PROGRESS SCHEDULE

[illegible]

[illegible] 5 [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

3.05 PROGRESS PHOTOGRAPHS

[illegible]

[illegible]

3.06 SUBMITTALS FOR REVIEW

[illegible]

[illegible]

[illegible]

3. [illegible]

[illegible]

[illegible]

[illegible]

3.07 SUBMITTALS FOR INFORMATION

[illegible]

[illegible]

[illegible]

3. [illegible]

[illegible]

5. [illegible]

[illegible]

[illegible]

[illegible]

3.08 SUBMITTALS FOR PROJECT CLOSEOUT

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

3. [illegible]

[illegible]

5. [illegible]

[illegible]

3.09 NUMBER OF COPIES OF SUBMITTALS

[illegible]

3.10 SUBMITTAL PROCEDURES

[illegible]

END OF SECTION

SECTION 01 4000 - QUALITY REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. [illegible]

B. [illegible]

C. [illegible]

D. [illegible]

E. [illegible]

F. [illegible]

1.02 RELATED REQUIREMENTS

A. [illegible] 3[illegible] - [illegible]

B. [illegible] 3[illegible] - [illegible]

C. [illegible] - [illegible]

D. [illegible] - [illegible]

1.03 REGULATORY REQUIREMENTS

A. [illegible]

B. [illegible]

C. [illegible]
   1. [illegible]

D. [illegible]

1.04 REFERENCES AND STANDARDS

A. [illegible]

B. [illegible]

C. [illegible]

D. [illegible]

E. [illegible]

[illegible]

1.05 INSTALLERS QUALITY ASSURANCE

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 CONTROL OF INSTALLATION

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

3.02 MOCK-UPS

[illegible]

[illegible]

[illegible]

[illegible]

3.03 TOLERANCES

[illegible]

[illegible]

[illegible]

3.04 MANUFACTURERS' FIELD SERVICES

[illegible]

[illegible]

1. [illegible]
2. [illegible]

[illegible]

3.05 DEFECT ASSESSMENT

[illegible]

[illegible]

END OF SECTION

SECTION 01 4216 - DEFINITIONS

PART 1 GENERAL

1.01 SUMMARY

A. [illegible]

B. [illegible]

1.02 DEFINITIONS

A. [illegible]

B. [illegible]

C. [illegible]

D. [illegible]

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 01 5000 - TEMPORARY FACILITIES AND CONTROLS

PART 1 GENERAL

1.01 SECTION INCLUDES

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]

1.02 TEMPORARY UTILITIES - SEE SECTION 01 5100

1. [illegible]
   1. [illegible]
   2. [illegible]
2. [illegible]

1.03 TEMPORARY SANITARY FACILITIES

1. [illegible]
2. [illegible]

1.04 BARRIERS

1. [illegible]
2. [illegible]
3. [illegible]

1.05 SECURITY

1. [illegible]

1.06 VEHICULAR ACCESS AND PARKING

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]

1.07 WASTE REMOVAL

1. [illegible]
2. [illegible]

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 01 6000 - PRODUCT REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. [illegible]

B. [illegible]

C. [illegible]

1.02 RELATED REQUIREMENTS

A. [illegible] 3 - [illegible]

1.03 SUBMITTALS

A. [illegible]

B. [illegible]

C. [illegible]
   1. [illegible]

PART 2 PRODUCTS

2.01 NEW PRODUCTS

A. [illegible]

B. [illegible]
   1. [illegible]

2.02 PRODUCT OPTIONS

A. [illegible]

B. [illegible]

PART 3 EXECUTION

3.01 SUBSTITUTION PROCEDURES

A. [illegible] 3.

B. [illegible] 5 [illegible]

C. [illegible]

D. [illegible]

E. [illegible]
   1. [illegible]
   2. [illegible]

3. [illegible]

[illegible]. [illegible]

[illegible]. [illegible]

[illegible]. [illegible]

[illegible]. [illegible]

3. [illegible]

3.02 TRANSPORTATION AND HANDLING

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

3.03 STORAGE AND PROTECTION

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

END OF SECTION

SECTION 01 7000 - EXECUTION AND CLOSEOUT REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]

1.02 SUBMITTALS

- [illegible]
- [illegible]

1.03 COORDINATION

- [illegible]
- [illegible]
- [illegible]
- [illegible]

1.04 CLOSEOUT SUBMITTALS

- [illegible]
  - [illegible]
  - [illegible]
  - 3\. [illegible]
  - [illegible]
  - 5\. [illegible]
  - [illegible]
  - [illegible]
  - 8\. [illegible]

PART 2 PRODUCTS

2.01 PATCHING MATERIALS

- [illegible]
- [illegible]

PART 3 EXECUTION

3.01 EXAMINATION

- [illegible]
- [illegible]

[illegible]

3.02 PREPARATION

[illegible]

3.03 GENERAL INSTALLATION REQUIREMENTS

[illegible]

3.04 ALTERATIONS

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

3.05 CUTTING AND PATCHING

[illegible]

[illegible]

[illegible]

3. [illegible]

5. [illegible]

8. [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

3. [illegible]

3.06 PROGRESS CLEANING

[illegible]

[illegible]

[illegible]

[illegible]

3.07 PROTECTION OF INSTALLED WORK

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

3.08 ADJUSTING

[illegible]

3.09 FINAL CLEANING

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

3.10 CLOSEOUT PROCEDURES

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

END OF SECTION

SECTION 02 4100 - DEMOLITION

PART 1 GENERAL

PART 2 PRODUCTS

PART 3 EXECUTION

3.01 GENERAL PROCEDURES AND PROJECT CONDITIONS

A. [illegible]

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]

B. [illegible]

C. [illegible]

1. [illegible]
2. [illegible]
3. [illegible]

3.02 DEBRIS AND WASTE REMOVAL – DAILY REMOVAL REQUIRED

A. [illegible]

B. [illegible]

C. [illegible]

END OF SECTION

SECTION 03 0100 - MAINTENANCE OF CONCRETE

PART 1 GENERAL

1.01 SECTION INCLUDES

A. [illegible]

B. [illegible]

C. [illegible]

D. [illegible]

PART 2 PRODUCTS

2.01 CLEANING MATERIALS

A. [illegible]

1. [illegible]

a. [illegible]

b. [illegible]

c. [illegible]

2. [illegible]

2.02 CEMENTITIOUS PATCHING AND REPAIR MATERIALS

A. [illegible]

1. [illegible]

2. [illegible]

3. [illegible]

4. [illegible]

5. [illegible]

6. [illegible]

7. [illegible]

8. [illegible]

9. [illegible]

10. [illegible]

B. [illegible]

1. [illegible]

a. [illegible]

b. [illegible]

c. [illegible]

d. [illegible]

C. [illegible]

1. [illegible]

2. [illegible]

3. [illegible]

4. [illegible]

5. [illegible]

6. [illegible]

a. [illegible]

b. [illegible]

c. [illegible]

d. [illegible]

[illegible]
[illegible]
[illegible]
3. [illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible]
[illegible]
[illegible]

PART 3 EXECUTION

3.01 EXAMINATION

[illegible]

[illegible]

3.02 CLEANING EXISTING CONCRETE

[illegible]
[illegible]
[illegible]

[illegible]
[illegible]
[illegible]
3. [illegible]

3.03 CONCRETE SURFACE REPAIR USING CEMENTITIOUS MATERIALS

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

3.04 FIELD QUALITY CONTROL

[illegible]

END OF SECTION

SECTION 05 5213 - PIPE AND TUBE RAILING SYSTEMS

PART 1 GENERAL

1.01 SECTION INCLUDES

- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]

1.02 RELATED SECTIONS

- [illegible]
- [illegible]
- [illegible]

1.03 REFERENCES

- [illegible]
  - [illegible]
  - [illegible]
  - 3. [illegible]
- [illegible]
  - [illegible]
  - [illegible]
  - 3. [illegible]
  - [illegible]

1.04 SUBMITTALS

- [illegible]
- [illegible]
  - [illegible]
  - [illegible]
  - 3. [illegible]
- [illegible]
  - [illegible]
  - [illegible]
  - 3. [illegible]
- [illegible]

1.05 DELIVERY, STORAGE, AND HANDLING

- [illegible]

[illegible]

1.06 PROJECT CONDITIONS

[illegible]

[illegible]

1.07 SEQUENCING AND SCHEDULING

[illegible]

[illegible]

1.08 WARRANTY

[illegible]

PART 2 PRODUCTS

2.01 MANUFACTURERS

[illegible]

[illegible]

2.02 PROJECT CONSTRUCTION - WEIGHTED BASE GUARDRAILS (NOT FOR PERMANENT USE)

[illegible]

[illegible]

[illegible]

13. [illegible]

2.03 PRS GUARDRAIL-POWDER COATED STEEL - IBC 20/LB/FT

A. [illegible]
   1. [illegible]

B. [illegible]
   1. [illegible]
   2. [illegible]
   3. [illegible]
   4. [illegible]
   5. [illegible]
   6. [illegible]
   7. [illegible]
   8. [illegible]
   9. [illegible]
   10. [illegible]
   11. [illegible]
       a. [illegible]
       b. [illegible]
       c. [illegible]
   12. [illegible]
   13. [illegible]
   14. [illegible]

2.04 PRS GUARDRAIL-POWDER COATED STEEL - 50 LB/FT

A. [illegible]
   1. [illegible]

B. [illegible]
   1. [illegible]
   2. [illegible]
   3. [illegible]
   4. [illegible]

5. [illegible]
[illegible]
[illegible]
8. [illegible]
[illegible]
[illegible]
[illegible]
   [illegible]
   [illegible]
   [illegible]
[illegible]
13. [illegible]
[illegible]

.

2.05 PRS GUARDRAIL - STAINLESS STEEL- OPTION 2

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

3. [illegible]

[illegible]

5. [illegible]

[illegible]

[illegible]

8. [illegible]

[illegible]

[illegible]

[illegible]

   [illegible]

   [illegible]

   [illegible]

[illegible]

13. [illegible]

[illegible]

2.07 PRS WALL MOUNT GUARDRAIL

[illegible]

[illegible]

[illegible]

3. [illegible]

[illegible]

5. [illegible]

[illegible]

[illegible]

8. [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

2.08 ROOF HATCH GUARDRAIL

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

3. [illegible]

[illegible]

5. [illegible]

[illegible]

[illegible]

8. [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

2.12 LADDER TO ROOF ACCESS POINT

[illegible]

[illegible]

3. [illegible]

[illegible]

5. [illegible]

[illegible]

[illegible]

8. [illegible]

[illegible]

[illegible]

[illegible]

PART 3 EXECUTION

3.01 EXAMINATION AND PREPARATION

[illegible]

[illegible]

[illegible]

3.02 INSTALLATION

[illegible]

[illegible]
1. [illegible]
2. [illegible]
3. [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

3.03 PROTECTION

[illegible]

[illegible]

END OF SECTION

SECTION 06 1000 - ROUGH CARPENTRY

PART 1 GENERAL

1.01 SECTION INCLUDES

A. [illegible]

B. [illegible]

C. [illegible]

D. [illegible]

E. [illegible]

1.02 REFERENCE STANDARDS

A. [illegible] 53 [illegible] 53M - [illegible]

B. [illegible] [illegible]

PART 2 PRODUCTS

2.01 GENERAL REQUIREMENTS

A. [illegible]

1. [illegible]

2. [illegible]

B. [illegible]

2.02 DIMENSION LUMBER

A. [illegible]

B. [illegible]

C. [illegible]

1. [illegible]

2. [illegible] 3.

2.03 ACCESSORIES

A. [illegible]

1. [illegible] 53 [illegible] 53M [illegible]

PART 3 EXECUTION

3.01 INSTALLATION - GENERAL

A. [illegible]

B. [illegible]

3.02 BLOCKING, NAILERS, AND SUPPORTS

A. [illegible]

B. [illegible]

C. Cover roof openings with materials specified and secure against displacement by wind or other causes. Mark openings with high-visibility flagging to warn roofing workers of hazard.

3.03 ROOF-RELATED CARPENTRY

A. Coordinate roof-related carpentry with roofing work. Furnish and install roof-related carpentry, including roof curbs and roof-mounted equipment supports, to comply with applicable recommendations in NRCA's roofing and waterproofing manual.

B. Provide wood nailers, curbs, and blocking where shown for anchorage of roofing and base flashings. Coordinate installation of roofing system materials so that wood nailers, curbs, and blocking are installed to support roofing.

END OF SECTION

SECTION 06 1500 - WOOD DECKING

PART 2 PRODUCTS

1.01 WOOD MATERIALS

□. □ □□d □□□r□□□□d r□□ □d r□□ □□ □□r □□ □□□□□r□ □□d.

END OF SECTION

SECTION 07 0150.19 - PREPARATION FOR RE-ROOFING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. [illegible]

1.02 RELATED REQUIREMENTS

A. [illegible]

B. [illegible]

C. [illegible]

1.03 ADMINISTRATIVE REQUIREMENTS

A. [illegible]

B. [illegible]

C. [illegible]

1.04 FIELD CONDITIONS

A. [illegible]

B. [illegible]

PART 3 EXECUTION

2.01 EXAMINATION

A. [illegible]

2.02 PREPARATION

A. [illegible]

B. [illegible]

2.03 MATERIAL REMOVAL

A. [illegible]

B. [illegible]

C. [illegible]

D. [illegible]

E. [illegible]

2.04 FIELD QUALITY CONTROL

A. [illegible]

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]

[illegible]

5. [illegible]

[illegible]

END OF SECTION

SECTION 07 1401 - HOT-APPLIED RUBBERIZED ASPHALT – (TYPE 2 ROOF)

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.02 RELATED SECTIONS

A. Section 06 1000 - Rough Carpentry.

B. Section 07 13 13 - Modified Bituminous Sheet Waterproofing. Modified bitumen sheet flashing for roof penetrations and roof edge conditions.

C. Section 07 1401 - Hot-Applied Rubberized Asphalt – (Type 2 Roof).

D. Section 07 1403 - Hot-Applied Rubberized Asphalt – (Type 3 Roof).

E. Section 07 2100 - Thermal Insulation.

F. Section 07 2500 - Weather Barriers.

G. Section 07 5400 - Thermoplastic Membrane Roofing.

H. Section 07 6200 - Sheet Metal Flashing and Trim.

I. Section 07 7200 - Roof Accessories.

J. Section 07 9200 - Joint Sealants.

1.03 REFERENCES

A. Use the publication date in effect on the date of Contract Documents, unless otherwise indicated.

B. Abbreviations and acronyms for organizations and standards comply with ASTM.

C. Comply with applicable requirements of the following standards:

1. ASTM D 312 - Standard Specification for Asphalt Used in Roofing.

2. ASTM D 6083 - Standard Specification for Liquid Applied Acrylic Coating Used in Roofing.

3. ASTM D 6511 - Standard Specification for Liquid Applied Nonreinforced Elastomeric Waterproofing Membrane for Exposed Use with Separate Wearing Course.

4. ASTM D 6754 - Standard Specification for Polymer Modified Bituminous Sheet Materials Used for Roofing.

5. ASTM D 6757 - Standard Specification for Cold Liquid Elastomeric Waterproofing Membrane with Integral Wearing Surface.

6. ASTM D 6947 - Standard Specification for Liquid Applied Moisture Cured Polyurethane Coating Used in Roofing.

1.04 SYSTEM DESCRIPTION

A. Roofing and flashing shall be installed to resist wind forces specified or required by governing regulations or roofing manufacturer's warranty. Roofing, base flashings, and counterflashings shall be installed to prevent water penetration, but allow for possible moisture dissipation within roofing system. Membrane roofing and base flashings shall be installed to resist specified uplift pressures, to withstand thermally induced movement, and to exclude water that may be present or accumulate on roofing system. Roofing membrane and base flashings shall be applied to substrates that are visibly dry and free of materials that are incompatible with roofing system.

1.05 SUBMITTALS

A. [illegible]

B. [illegible]

C. [illegible]

D. [illegible]

E. [illegible]

1.06 QUALITY ASSURANCE

A. [illegible]

B. [illegible]

1. [illegible]
2. [illegible]

C. [illegible]

D. [illegible]

E. [illegible]

F. [illegible]

1. [illegible]
2. [illegible]
3. [illegible]

G. [illegible]

1.07 DELIVERY, STORAGE, AND HANDLING

A. [illegible]

B. [illegible]

C. [illegible]

D. [illegible]

E. [illegible]

1.08 PROJECT CONDITIONS

[illegible]. [illegible]

[illegible]. [illegible]

[illegible]. [illegible]

[illegible]. [illegible]

1.09 WARRANTY

[illegible]. [illegible]

PART 2 - PRODUCTS

2.01 GENERAL

[illegible]. [illegible]

2.02 WATERPROOFING MEMBRANE

[illegible]. [illegible]

Properties	Standards	Requirements
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

2.03 ACCESSORY PRODUCTS

[illegible]. [illegible]

- [illegible]. [illegible]

[illegible]. [illegible]

- [illegible]. [illegible]
- [illegible]. [illegible]

[illegible]. [illegible]

- [illegible]. [illegible]
- [illegible]. [illegible]
- 3. [illegible]
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[illegible]. [illegible]

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3. [illegible].

[illegible]. [illegible]

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[illegible]. [illegible]

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- [illegible]. [illegible].
- 3. [illegible].
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[illegible]. [illegible]

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- [illegible]. [illegible].

[illegible]. [illegible]

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  - [illegible]. [illegible].
  - [illegible]. [illegible].
  - [illegible]. [illegible].
  - d. [illegible].

[illegible]. [illegible]

- [illegible]. [illegible].

[illegible]. [illegible]

- [illegible]. [illegible]
  - [illegible]. [illegible].
    - [illegible] [illegible].
    - [illegible] [illegible].
    - 3 [illegible]
    - [illegible] [illegible].
    - 5 [illegible].
    - [illegible] [illegible]
    - [illegible] [illegible]
- [illegible]. [illegible]
  - [illegible]. [illegible]

PART 3 - EXECUTION

3.01 SUBSTRATE INSPECTION

- [illegible]
- [illegible]

3.02 SUBSTRATE PREPARATION

- [illegible]
  1. [illegible]
     - [illegible]
     - [illegible]
  2. [illegible]
     - [illegible]
     - [illegible]
  3. [illegible]
     - [illegible]
     - [illegible]
  4. [illegible]
     - [illegible]
     - [illegible]
     - [illegible]
  5. [illegible]
     - [illegible]
- [illegible]
  1. [illegible]
     - [illegible]
     - [illegible]

3.03 SYSTEM INSTALLATION

- [illegible]
  1. [illegible]
  2. [illegible]
- [illegible]
  1. [illegible]

2. [illegible]

3. [illegible]

C. [illegible]

1. [illegible]

2. [illegible]

3. [illegible]

4. [illegible]

5. [illegible]

6. [illegible]

7. [illegible]

8. [illegible]

D. [illegible]

1. [illegible]

3.04 SEPARATION LAYER INSTALLATION

A. [illegible]

1. [illegible]

2. [illegible]

3. [illegible]

3.05 FLOOD TEST

A. [illegible]

[illegible]

3.06 PROTECTION OR DRAINAGE COURSE/INSULATION/PAVER PLACEMENT

[illegible]

3.07 JOB COMPLETION

[illegible]

□. □□□ □□□□ □r□□□ □□□□ □r□□ □□□□□ □□□r□□□□□□□□d□□r□□□□□□d □□r□□□□ □ □□□r□□□□□r□□□□□□□□ □r□□□ □□□□ □□r□.

END OF SECTION

SECTION 07 2100 - THERMAL INSULATION

PART 1 GENERAL

1.01 SECTION INCLUDES

A. [illegible]

1.02 RELATED REQUIREMENTS

A. [illegible]

B. [illegible]

C. [illegible]

1.03 REFERENCE STANDARDS

A. [illegible]

B. [illegible]

C. [illegible]

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. [illegible]

1. [illegible]

2.02 APPLICATIONS

A. [illegible]

2.03 FOAM BOARD INSULATION MATERIALS

A. [illegible]

1. [illegible]

2. [illegible]

3. [illegible]

B. [illegible]

1. [illegible]

2. [illegible]

3. [illegible]

a. [illegible]

4. [illegible]

5. [illegible]

a. [illegible]

2.04 FIBER BOARD INSULATION MATERIALS

A. [illegible]

1. [illegible]

2. [illegible]

2.05 ACCESSORIES

A. [illegible]

PART 3 EXECUTION

3.01 EXAMINATION

A. [illegible]

B. [illegible]

3.03 BOARD INSTALLATION OVER LOW SLOPE ROOF DECK

A. [illegible]

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]

3.04 PROTECTION

A. [illegible]

END OF SECTION

SECTION 07 5360 - PVC HYBRID 1 – (TYPE 1 ROOF)

1.01 SECTION INCLUDES

A. [illegible]

1.02 RELATED WORK SPECIFIED ELSEWHERE: (THE FOLLOWING ITEM MAY BE COVERED IN OTHER SECTIONS OF THE SPECIFICATIONS.

A. [illegible]

B. [illegible]

C. [illegible]

D. [illegible]

E. [illegible]

F. [illegible]

G. [illegible]

H. [illegible]

1.03 DEFINITIONS

A. [illegible]

1. [illegible]

2. [illegible]

3. [illegible]

1.04 REFERENCES

A. [illegible]

B. [illegible]

1. [illegible]

2. [illegible]

3. [illegible]

4. [illegible]

5. [illegible]

6. [illegible]

7. [illegible]

8. [illegible]

9. [illegible]

10. [illegible]

11. [illegible]

12. [illegible]

13. [illegible]

[illegible]

1.05 CODE AND TEST REQUIREMENTS

[illegible]

5. [illegible]

[illegible]

1.06 SUBMITTALS

[illegible]

[illegible]

[illegible]

3. [illegible]

[illegible]

5. [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

d. [illegible]

[illegible]

[illegible]

8. [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

d. [illegible]

1.07 QUALIFICATIONS

[illegible]

[illegible]

[illegible]

3. M[illegible]

[illegible]

5. [illegible]

[illegible]

8. M[illegible]

d. [illegible]

[illegible]

1.08 PRE-INSTALLATION CONFERENCE

[illegible]

3. [illegible]

[illegible]

1.09 DELIVERY, HANDLING AND STORAGE

A. [illegible]

1. [illegible]

B. [illegible]

C. [illegible]

D. [illegible]

E. [illegible]

1.10 QUALITY ASSURANCE

A. [illegible]

1. [illegible]

2. [illegible]

B. [illegible]

1. [illegible]

1.11 WARRANTY

A. [illegible]

B. [illegible]

C. [illegible]

1.12 LABORATORY TESTING

A. [illegible]

B. [illegible]

1.13 SITE PROTECTION

A. [illegible]

PART 2 PRODUCTS

2.01 GENERAL

A. [illegible]

B. [illegible]

2.02 VAPOR RETARDER

A. [illegible]
   1. [illegible] 3 .5 [illegible] .8 [illegible]
   2. [illegible] 5 [illegible]
   3. [illegible] 33 [illegible] .8 [illegible]

2.03 SBS BASE MEMBRANE PLY:

A. [illegible]
   1. [illegible]
   2. [illegible] 3. 8 [illegible]
   3. [illegible]
      a. [illegible] 5 [illegible]
      b. [illegible] 5 [illegible]
      c. [illegible]
      d. [illegible] 5 [illegible]
      e. [illegible] 5 [illegible]
   4. [illegible]
      a. [illegible] .8 [illegible]
      b. [illegible] 8 M[illegible]

2.04 PVC MEMBRANE

A. [illegible]
   1. [illegible] 8 [illegible]
   2. [illegible] 3. [illegible]
   3. [illegible] 5 [illegible]
   4. [illegible] M [illegible] 3 [illegible].
      a. [illegible]
         [illegible] 5 5 M [illegible] M [illegible]
      b. [illegible]
         [illegible] 5 M [illegible] 5 M [illegible]
   5. [illegible]

2.05 FASTENERS

A. [illegible]

B. [illegible]

C. [illegible]

[illegible]

[illegible]

3. [illegible]

2.06 WOOD BLOCKING

[illegible]

2.07 ROOF INSULATION

[illegible]

2.08 PRIMER

[illegible]

2.09 ADHESIVE TO BOND SBS BASE SHEET TO COVERBOARD

[illegible]

[illegible]

2.10 PVC COATED METAL

[illegible]

2.11 MISCELLANEOUS

[illegible]

PART 3 EXECUTION

3.01 SURFACE INSPECTION AND PREPARATION

[illegible]

3.02 SURFACE PREPARATION

[illegible]

3.03 INSTALLATION

[illegible]

3.04 EQUIPMENT

[illegible]

B. □□-□r we□ding shall inclu□de heat□ng the specifie□d memb□rane p□y using elec□ric □□□-□r □□d□□□ equipment The con□ractor shal□ dete□rmine when an□d whe□re con□ditions a□re app□ropriate to utiliz□ □□□-□r we□ding equipment Wh□n con□dition□ are dete□rmin□d by □□□ con□ractor to □□ unsafe to □r□□□□d, mate□rial □□□d metho□ds shall be utilize□d to □ccommo□date re□u□rements an□d con□ditions

C. Refe□r to NRCA CERTA□ □recomme□□dat□ons, local co□□des □□d bu□□ding owne□r's requ□rements fo□r hot wo□rk ope□rations.

3.05 ASPHALT PRIMER APPLICATION

□. Prime all □issimi□ar su□faces to □hich asphalt □r□m □mb□rane w□ll come in conta□t Appl□ at the □rate of 1 5□0 - 200 sq. ft gallon □r pe□r □anufactu□re□'s gu□del□nes.

3.06 VAPOR RETARDER INSTALLATION

A. □□r□□□vap□r □□rr□□r □□d app□□ by□ remov□□g □□□□-□d□□□□□□ back□□g.

B. Archi□ect □r Enginee□r shou□d ve□fy the p□ope□r locat□on of the vapo□r □□rr□□r by pe□f□rming any □□□□□□□□□□□□□□r□□□□r□□d □□d□□□r□ □□□□ □□□□ Dew po□□t □□□□□□□□.

3.07 WOOD BLOCKING

A. Install naile□rs, of minimum one inch (1") thickness an□d minimum th□ree inch (3") w□dth, as de□aile□d in Da□de County Applicati□n Stan□dard PA 111 an□d in compliance with t□e detail dr□□ □□□□. The max□□um unsuppo□r□□d ov□rhang □□r □□□□□□□□□□□□□□□□ sha□□ not exce□d □□□ □□ches (2")

B. □□□□□r□ shall be □r□ □□ ancho□r□d to the deck using fast□n□r devices □□d spac□ng in comp□□nce with □□d□ County Applica□ion Stan□dard PA 111, that is, ancho□rs shal□ be space□d □□ □r□□d□ a design value of not l□ss than 2 5□0 lbf/ft □r pe□rimete□rs □□d 3□00 lbf/ft at co□ne□rs a□te□r ap□lic□tion of the app□ropriate ma□rgin of safety.

C. A ½" vent space shall be □r□□d□d between a□djacent lengths of naile□r□.

D. Height of naile□rs shall ma□ch the su□f□ce l□vel of the □recove□ry insulation boa□rds an□d t□e new □r□□□mem□rane, □r a □□□□r□d □d□□ shall be installe□d to □r□d□□ the va□ryi□g he□gh□s.

E. If the com□ressive s□ength of the conc□ete deck is l□ss than 2 □500 psi □r the conc□ete thickness is □ess than 2½ □, an on-site t□st shall be □□rr□□d □ut to conf□m an□ho□ pe□formance.

F. Attachment of woo□d block□ng to stan□dard mason□ry block the top two cou□rses shall be fille□d with AST□M C 270 □ □r□□r an□d □□□□□□d to cu□re fo□r 28 days.

G. Attachment of woo□d block□ng to nailable □decks (□ight□ei□ht (agg□rega□□, Cellula□r, □□□rd), gypsum (plank an□d pou□red) an□d cementitious □□□d fibe□r) shou□d:

1. □□ capable of be□ng clam□ed □□ the □□d□r□d□ of the □deck □r attaching to a □r□□□□r□□ membe□r
2. □r the selecte□d woo□d blocking ancho□r can achieve an ave□rage with□draw□ resistance of not □ess than 4 5□0 lb□. with a minimum cha□acte□ristic value of 3□90 lbf

3.08 INSTALLATION OF INSULATION WITH ADHESIVE

A. Install insulation in acco□rdance with the manufactu□re□'s requ□rement□. The insulation sha□l □r□□d□ a smooth, in□-plane su□face to accept the □roof memb□rane.

B. Apply only as much insul□tion to the □roof as can be □□□□r□d the same □day with □roofing memb□rane. At the conclusion of each □day's wo□rk, seal expose□d e□dges of the insulation□. Cut an□d remove seal upon continuation of the wo□rk.

C. The f□□st laye□r □r insulation l□ye□r must be place□d □down on the □ribbons of insulat□on a□dhesive which have been □deposite□d with the insulation applicato□r. If a secon□d □r subsequent laye□rs of insulation a□re use□d the insulation joints must be stagge□re□d-a minimum of 6 □- in both d□□ections.

1. Spec Note: Boa□rd□mensions a□re l□mite□d to a maximum of 4 'x 4' If□he boa□rds a□re out of p□□ne □ □r□ □□□□□ 3□8" □□□□□ one of □□□□ □□□□□□□□ □□□ □□ □ □ □□□□□d□ must be □□□□d □□ □□rr□□□□□□□□ □□defect One, ex□□a a□dhesive must be applie□d to□hose a□reas which a□re si□nificant□y ou□-o□-pl□ne (3□8") to a □deg□ree which insu□res long te□rm attachment Two, a□rel□ef cut th□ough the

[illegible]

[illegible]

[illegible]

[illegible]

3.09 FIELD BASE MEMBRANE PLY INSTALLATION

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

3.10 PVC INSTALLATION

[illegible]

[illegible]

[illegible]

3.11 HOT-AIR WELDING

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

3.12 FULLY ADHERED PVC MEMBRANE APPLICATION

[illegible]

[illegible]

[illegible]

3.13 FLASHINGS

[illegible]

3.14 WALKWAYS

[illegible]

3.15 SHEET METAL

[illegible]

3.16 WATER CUT-OFF

[illegible]

3.17 CLEANING

[illegible]

3.18 PROTECTION

[illegible]

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3.19 FIELD CONTROL

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END OF SECTION

SECTION 07 5400 - THERMOPLASTIC MEMBRANE ROOFING – (TYPE 3 ROOF)

PART 1 GENERAL

1.01 SECTION INCLUDES

A. [illegible]

1.02 RELATED REQUIREMENTS

1.03 REFERENCE STANDARDS

A. [illegible]

1.04 WARRANTY

A. [illegible]

PART 2 PRODUCTS

2.01 ROOFING - UNBALLASTED APPLICATIONS

A. [illegible]

B. [illegible]
   1. [illegible]
   2. [illegible]

C. [illegible]
   1. [illegible]
   2. [illegible]
   3. [illegible]

2.02 ROOFING MEMBRANE AND ASSOCIATED MATERIALS

A. [illegible]
   1. [illegible]
   2. [illegible]
   3. [illegible]
   4. [illegible]

B. [illegible]

C. [illegible]

END OF SECTION

SECTION 07 5419 - FULLY ADHERED PVC

PART 1 GENERAL

1.01 RELATED DOCUMENTS

A. [illegible]

1.02 SCOPE OF WORK

A. [illegible]

B. [illegible]

C. [illegible]

D. [illegible]

1.03 SUMMARY

A. [illegible]
   1. [illegible]
   2. [illegible]
   3. [illegible]
   4. [illegible]
   5. [illegible]
   6. [illegible]
   7. [illegible]
   8. [illegible]
   9. [illegible]
   10. [illegible]

B. [illegible]
   1. [illegible] "[illegible]" [illegible]
   2. [illegible] "[illegible]" [illegible]
   3. [illegible] "[illegible]" [illegible]
   4. [illegible] "[illegible]" [illegible]
   5. [illegible] "[illegible]" [illegible]
   6. [illegible] "[illegible]" [illegible]

1.04 DEFINITIONS

A. [illegible]

1.05 PERFORMANCE REQUIREMENTS

A. [illegible]

B. [illegible]

[illegible]

1.06 ACTION SUBMITTALS

[illegible]

[illegible]

3. [illegible]

5. [illegible]

1.07 INFORMATIONAL SUBMITTALS

[illegible]

1.08 CLOSEOUT SUBMITTALS

[illegible]

3. [illegible]

[illegible]

1.09 QUALITY ASSURANCE

[illegible]

d. [illegible]

[illegible]

[illegible]

3. [illegible]

[illegible]

[illegible]

1.10 DELIVERY, STORAGE, AND HANDLING

[illegible]

[illegible]

1.11 PROJECT CONDITIONS

[illegible]

1.12 WARRANTY

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

PART 2 PRODUCTS

2.01 PVC MEMBRANE ROOFING

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

d. [illegible]

[illegible]

[illegible]

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[illegible]

d. [illegible]

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[illegible]

[illegible]

[illegible]

[illegible]

3. [illegible]

[illegible]

[illegible]

3. [illegible]

5. [illegible]

[illegible]

3. [illegible]

[illegible]

2.02 VAPOR/AIR RETARDER

[illegible]

3. [illegible]

[illegible] [illegible] d [illegible] d [illegible] d [illegible] d.

2.03 ROOF INSULATION

[illegible]. [illegible]

[illegible]. [illegible] M [illegible] 8 [illegible]

[illegible]. [illegible]

[illegible]. [illegible]

2.04 INSULATION ACCESSORIES

[illegible]. [illegible]

[illegible]. [illegible]

[illegible]. [illegible]

[illegible]. [illegible]

[illegible]. [illegible] M [illegible] M [illegible] 5 8 [illegible]

[illegible]. [illegible] 3 5 8 [illegible]

[illegible]. [illegible] M [illegible]

2.05 WALKWAYS

[illegible]. [illegible]

[illegible]. [illegible]

PART 3 EXECUTION

3.01 EXAMINATION

[illegible]. [illegible]

[illegible]. [illegible]

[illegible]. [illegible]

3. [illegible] 53 [illegible] "[illegible]."

[illegible]. [illegible]

3.02 PREPARATION

[illegible]. [illegible]

[illegible]

3.03 VAPOR/AIR-RETARDER/ TEMPORARY ROOF INSTALLATION

[illegible]

3.04 INSULATION INSTALLATION

[illegible]

[illegible]

3.05 ADHERED MEMBRANE ROOFING INSTALLATION

- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
  - [illegible]
  - [illegible]
  - 3. [illegible]
- [illegible]
- [illegible]

3.06 BASE FLASHING INSTALLATION

- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]

3.07 WALKWAY INSTALLATION

- [illegible]

3.08 FIELD QUALITY CONTROL

- [illegible]
- [illegible]
- [illegible]

[illegible]

3.09 PROTECTING AND CLEANING

[illegible]

[illegible]

[illegible]

3.10 ROOFING INSTALLER'S WARRANTY

[illegible]

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]
6. [illegible]
7. [illegible]
8. [illegible]

[illegible]

[illegible]

[illegible]

1. [illegible]
   a. [illegible]
   b. [illegible]
   c. [illegible]
   d. [illegible]
   e. [illegible]
   f. [illegible]
   g. [illegible]
2. [illegible]
3. [illegible]

[illegible]

5. [illegible]

[illegible]

[illegible]

END OF SECTION

SECTION 07 6200 - SHEET METAL FLASHING AND TRIM

PART 1 GENERAL

1.01 SECTION INCLUDES

A. [illegible]

B. [illegible]

C. [illegible]

D. [illegible]

1.02 RELATED REQUIREMENTS

A. [illegible]

B. [illegible]

C. [illegible]

D. [illegible]

E. [illegible]

1.03 REFERENCE STANDARDS

A. [illegible]

B. [illegible]

C. [illegible]

D. [illegible]

E. [illegible]

1.04 ADMINISTRATIVE REQUIREMENTS

A. [illegible]

1.05 SUBMITTALS

A. [illegible]

B. [illegible]

C. [illegible]

1.06 QUALITY ASSURANCE

A. [illegible]

B. [illegible]

C. [illegible]

1.07 DELIVERY, STORAGE, AND HANDLING

A. [illegible]

PART 2 PRODUCTS

2.01 SHEET MATERIALS

- [illegible]
- [illegible]
  - [illegible]
  - [illegible]
- [illegible]
- [illegible]

2.02 ACCESSORIES

- [illegible]
- [illegible]
- [illegible]
- [illegible]

2.03 FABRICATION

- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]

2.04 GUTTER AND DOWNSPOUT FABRICATION

- [illegible]
- [illegible]
- [illegible]
- [illegible]
- [illegible]

PART 3 EXECUTION

3.01 EXAMINATION

- [illegible]
- [illegible]

3.02 PREPARATION

- [illegible]

3.03 INSTALLATION

- [illegible]

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3.04 FIELD QUALITY CONTROL

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3.05 SCHEDULE

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END OF SECTION

SECTION 07 9005 - JOINT SEALERS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. [illegible]

1.02 REFERENCE STANDARDS

A. [illegible]
[illegible]
B. [illegible]
C. [illegible]
D. [illegible]
E. [illegible]
F. [illegible]
G. [illegible]
H. [illegible]
I. [illegible]

1.03 ADMINISTRATIVE REQUIREMENTS

A. [illegible]

1.04 SUBMITTALS

A. [illegible]

B. [illegible]

C. [illegible]

1.05 FIELD CONDITIONS

A. [illegible]

1.06 WARRANTY

A. [illegible]

B. [illegible]

C. [illegible]

D. [illegible]

E. [illegible]

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. [illegible]

[illegible]

2.02 SEALANTS

A. [illegible]

1. [illegible]
   a. [illegible]
   b. [illegible]
   c. [illegible]
   d. [illegible]
2. [illegible]

B. [illegible]

1. [illegible] **DOW CORNING® 795 Silicone Building Sealant**.
2. [illegible] 35 - [illegible]5 [illegible]
3. [illegible]
4. [illegible]
5. [illegible]

C. [illegible]

D. [illegible]
1. [illegible]
2. [illegible]
   a. [illegible]

2.03 ACCESSORIES

A. [illegible]

B. [illegible]

C. [illegible]

D. [illegible]

PART 3 EXECUTION

3.01 EXAMINATION

A. [illegible]

B. [illegible]

3.02 PREPARATION

A. [illegible]

B. [illegible]

C. [illegible]

D. [illegible]

3.03 INSTALLATION

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

3.04 CLEANING

[illegible]

[illegible]

[illegible]

3.[illegible]5 [illegible]

[illegible]

END OF SECTION

ROOFING REPLACEMENT

CENTRAL DETENTION FACILITY

1901 D STREET, SE
WASHINGTON DC

BLUEFIN

BLUEFIN LLC CORPORATE OFFICE
6312 S. Fiddlers Green Circle Suite 100E
Greenwood Village, CO 80111
TEL: 866-735-0728

MID-ATLANTIC OFFICE
2134 Espey Court Suite 14
Crofton, MD 21114
TEL: 410-881-0221

DISTRICT OF COLUMBIA
DEPARTMENT OF CORRECTIONS

AERIAL SITE PHOTO

DRAWING INDEX

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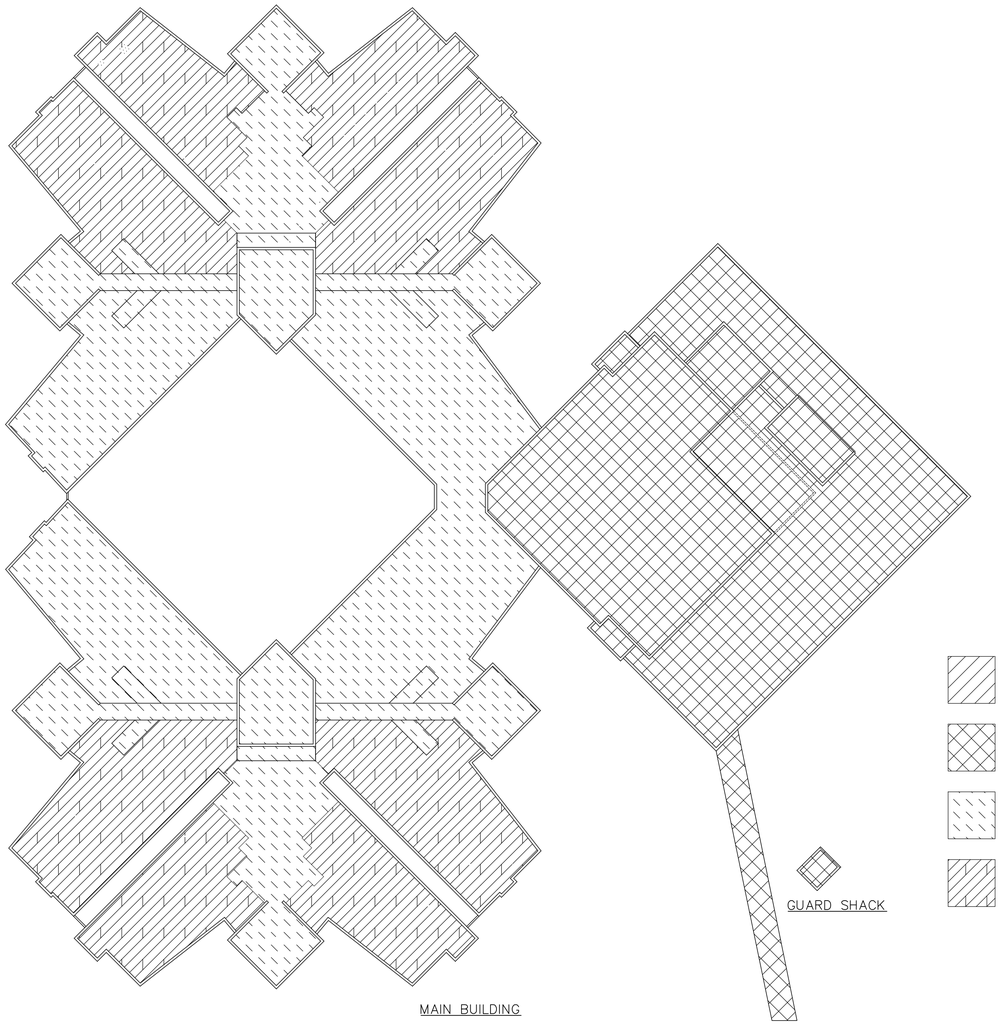
SHEET NUMBER
C1.0



PHASE 1: (COMPLETED)

PHASE 2: TYPE 1 & TYPE 3 ROOFS

PHASE 3: TYPE 1 ROOF

PHASE 4: TYPE 2 ROOF (HOT RUBBERIZED ASPHALT)

KEY ROOF PLAN
N.T.S

N

Actual Size to read at scale
0 IN 1 IN 2 IN

BLUEFIN

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6312 S. Fiddlers Green Circle Suite 100E
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PROJECT
ROOFING REPLACEMENT

Central Detention Facility
1901 D Street, SE
Washington DC

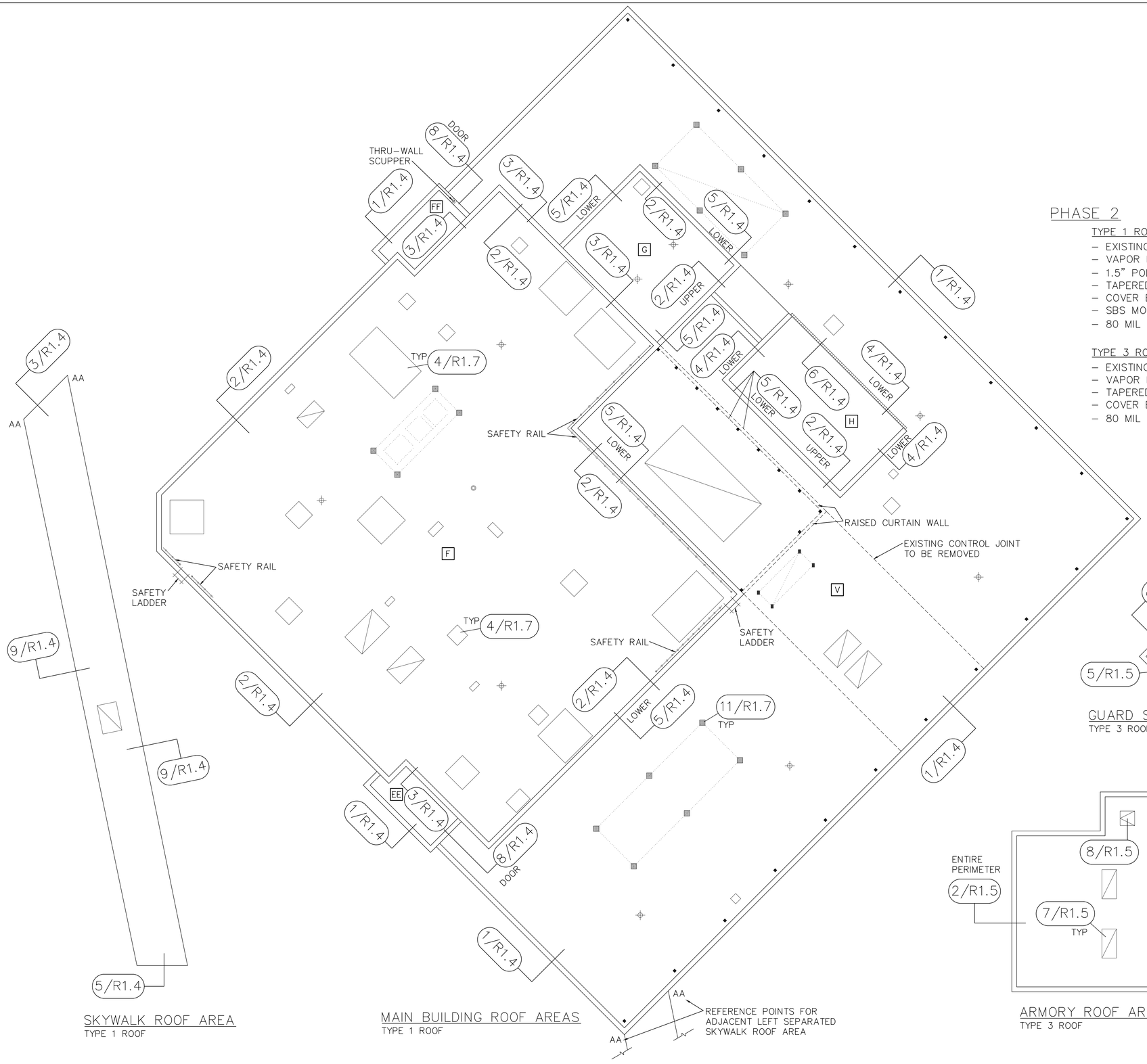
District of Columbia
Department of Corrections

DRAWING DATES

NUMBER	DATE	COMMENTS

DRAWING TITLE
KEY ROOF PLAN PHASES AND ROOF TYPES

SHEET NUMBER
R1.0



PHASE 2

TYPE 1 ROOF

- EXISTING CONCRETE DECK (PRIME)
- VAPOR BARRIER
- 1.5" POLYISOCYANURATE INSULATION
- TAPERED POLYISOCYANURATE INSULATION
- COVER BOARD
- SBS MODIFIED BASE SHEET
- 80 MIL PVC ROOF MEMBRANE (ADHERED)

TYPE 3 ROOF

- EXISTING CONCRETE DECK (PRIME)
- VAPOR BARRIER
- TAPERED POLYISOCYANURATE INSULATION
- COVER BOARD
- 80 MIL PVC ROOF MEMBRANE (ADHERED)

SKYWALK ROOF AREA
TYPE 1 ROOF

MAIN BUILDING ROOF AREAS
TYPE 1 ROOF

GUARD SHACK ROOF AREA
TYPE 3 ROOF

ARMORY ROOF AREA
TYPE 3 ROOF

PHASE 2 ROOF PLANS
N.T.S

N

KEY

- ⊡ – ROOF AREA DESIGNATION
- ◆ – ROOF DRAIN
- ✕ – THRU–WALL SCUPPER
- ◢ – ROOF EDGE SCUPPER
- ▭ – GUTTER EDGE
- □ – CURBED OPENING
- ☑ – H.V.A.C. CURB
- ☑ – ROOF HATCH
- ☒ – SKYLIGHT
- ⊠ – CURBED STACK
- ▨ – CHIMNEY
- ☑ – PIPE PORTAL CURB
- ⊓ – ROOF LADDER
- ○ – PIPE VENT
- + – SOIL STACK
- ◢ – SMALL PIPE PENETRATION
- ● – PITCH PAN
- ▬ – EXPANSION JOINT
- ⎯ – SLOPE TRANSITION
- AB – ABANDONED EQUIPMENT

Actual Size to read at scale
0 IN 1 IN 2 IN

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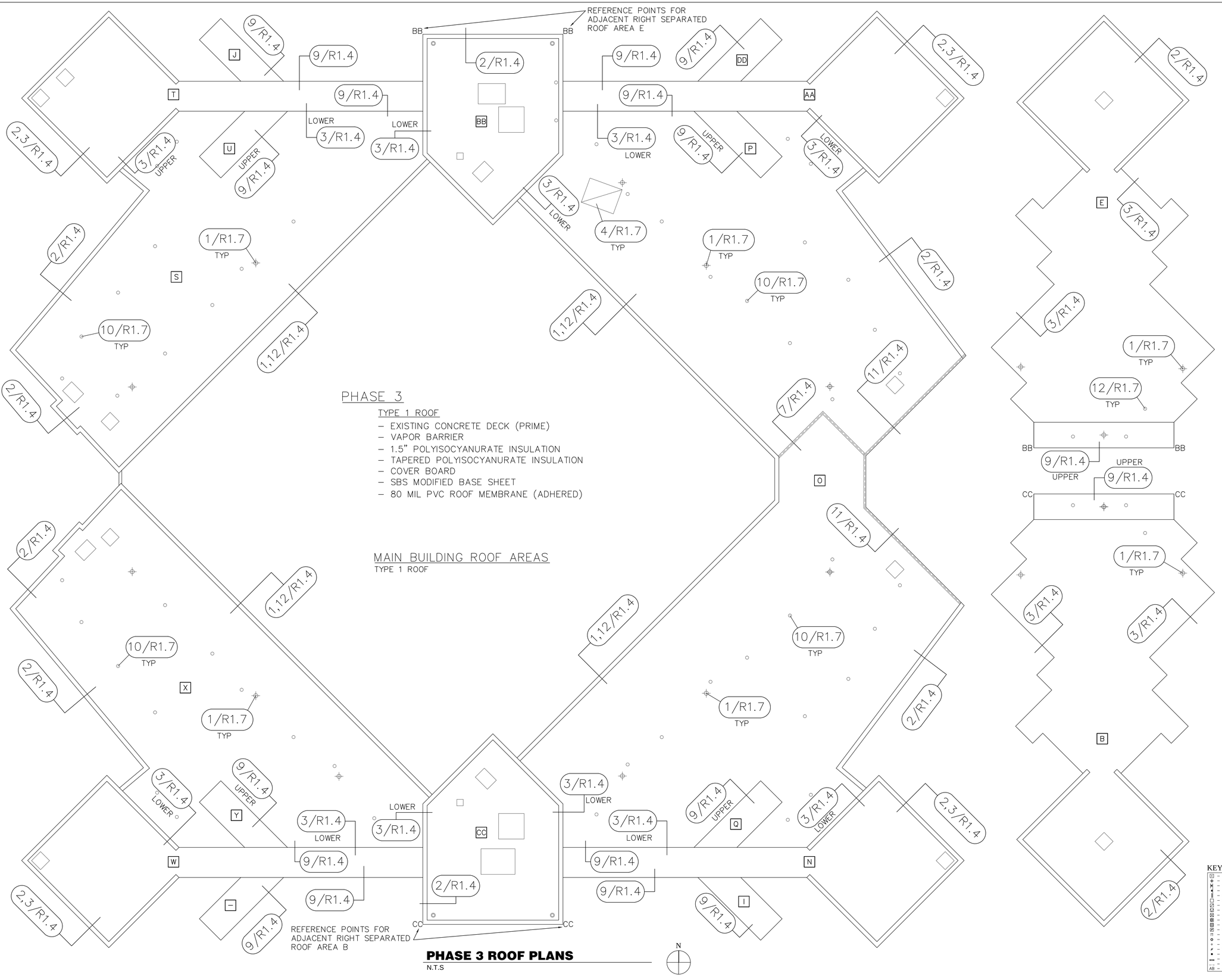
District of Columbia Department of Corrections

DRAWING DATES

NUMBER	DATE	COMMENTS

DRAWING TITLE
PHASE 2 ROOF PLANS

SHEET NUMBER
R1.1



KEY

- ◻ – ROOF AREA DESIGNATION
- ◆ – ROOF DRAIN
- ◆ – THRU-WALL SCUPPER
- ◆ – ROOF EDGE SCUPPER
- ▭ – GUTTER EDGE
- ▢ – CURBED OPENING
- ☑ – H.V.A.C. CURB
- ☑ – ROOF HATCH
- ☒ – SKYLIGHT
- ☒ – CURBED STACK
- ▤ – CHIMNEY
- ▣ – PIPE PORTAL CURB
- ⊓ – ROOF LADDER
- ○ – PIPE VENT
- ○ – SOIL STACK
- ⌐ – SMALL PIPE PENETRATION
- ● – PITCH PAN
- ⟷ – EXPANSION JOINT
- ⟷ – SLOPE TRANSITION
- AB – ABANDONED EQUIPMENT

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PROJECT

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DRAWING DATES

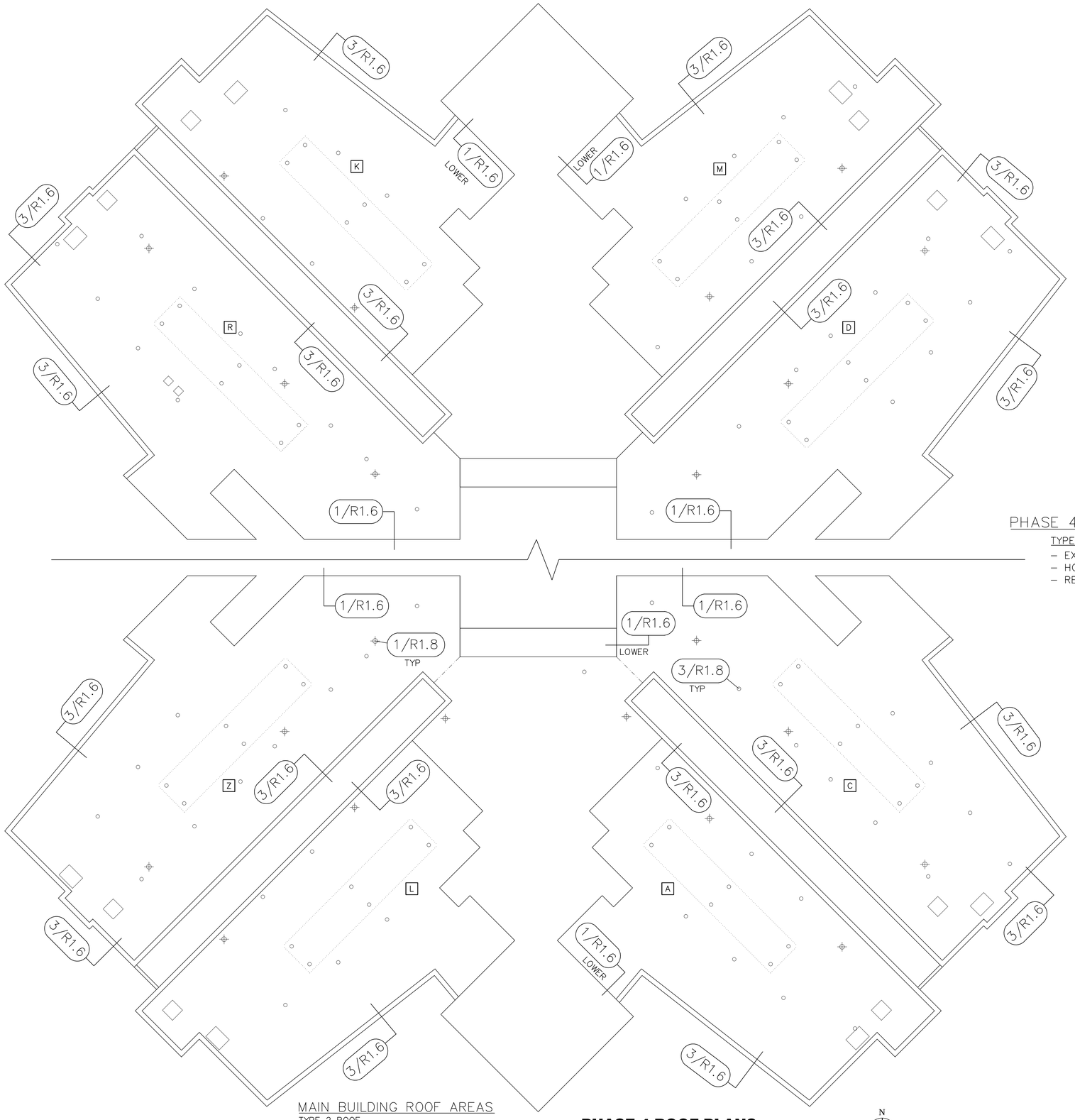
NUMBER	DATE	COMMENTS

DRAWING TITLE

PHASE 3 ROOF PLANS

SHEET NUMBER

R1.2



MAIN BUILDING ROOF AREAS
TYPE 2 ROOF

PHASE 4

TYPE 2 ROOF

- EXISTING CONCRETE DECK (PRIME)
- HOT RUBBERIZED ASPHALT
- REINFORCED HFA SYSTEM WITH SBS CAP SHEET

PHASE 4 ROOF PLANS
N.T.S

KEY

- ⊡ – ROOF AREA DESIGNATION
- ✚ – ROOF DRAIN
- M – THRU-WALL SCUPPER
- ▪ – ROOF EDGE SCUPPER
- ═ – GUTTER EDGE
- □ – CURBED OPENING
- ▽ – H.V.A.C. CURB
- ⊠ – ROOF HATCH
- ⊠ – SKYLIGHT
- ⊠ – CURBED STACK
- ▤ – CHIMNEY
- ⊓ – PIPE PORTAL CURB
- ⊓ – ROOF LADDER
- ○ – PIPE VENT
- ○ – SOIL STACK
- ✓ – SMALL PIPE PENETRATION
- ● – PITCH PAN
- ⋙ – EXPANSION JOINT
- ⋰ – SLOPE TRANSITION
- AB – ABANDONED EQUIPMENT

Actual Size to read at scale
0 IN 1 IN 2 IN

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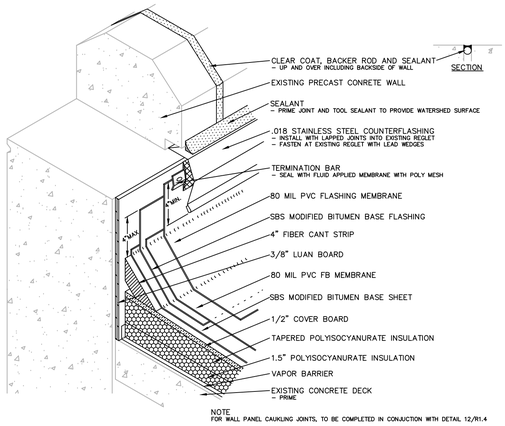
DRAWING DATES

NUMBER	DATE	COMMENTS

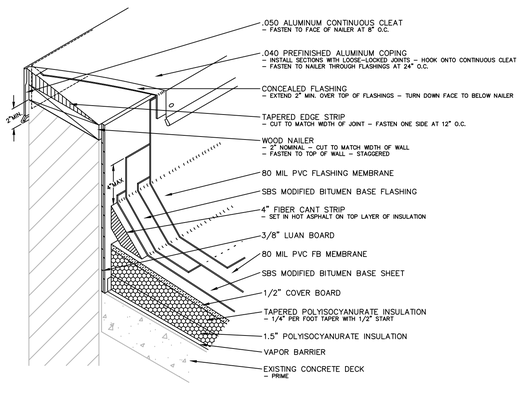
DRAWING TITLE
PHASE 4
ROOF PLANS

SHEET NUMBER
R1.3

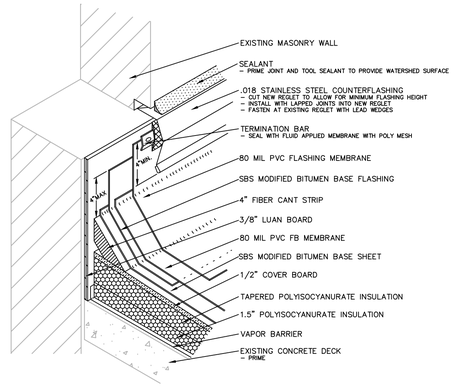


NOTE
FOR WALL PANEL CAULKING JOINTS, TO BE COMPLETED IN CONJUCTION WITH DETAIL 12/R1.4

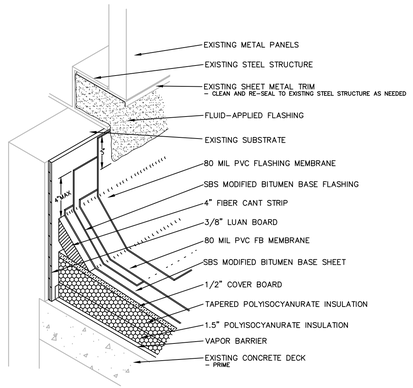
1 PARAPET FLASHING PHASE 1 ONLY
N.T.S



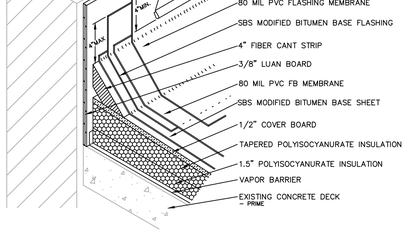
2 PARAPET FLASHING
N.T.S



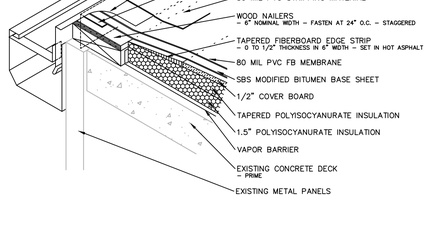
3 WALL FLASHING
N.T.S



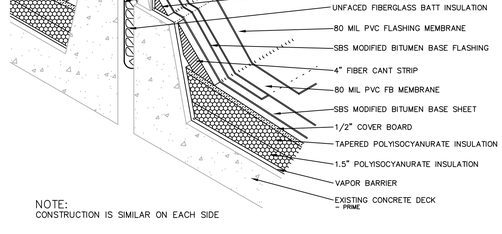
4 WALL FLASHING
N.T.S



5 WALL FLASHING
N.T.S

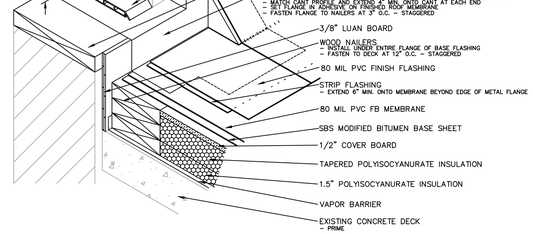


6 GUTTER EDGE
N.T.S

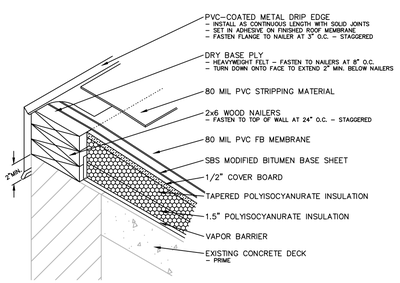


NOTE:
CONSTRUCTION IS SIMILAR ON EACH SIDE

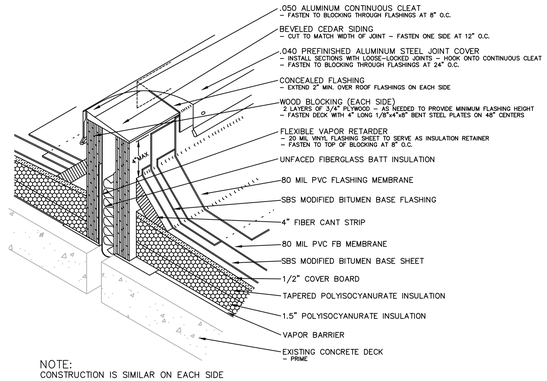
7 EXPANSION JOINT FLASHING
N.T.S



8 DOOR THRESHOLD FLASHING
N.T.S

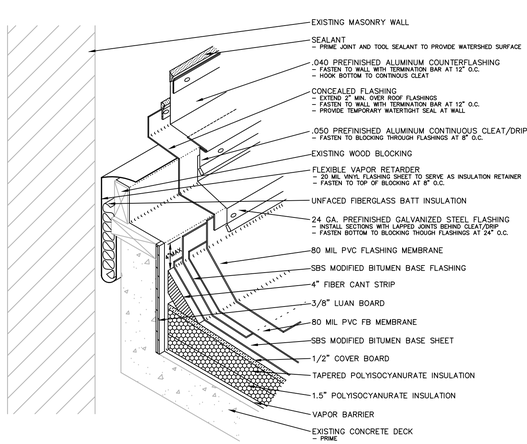


9 ROOF EDGE FLASHING
N.T.S

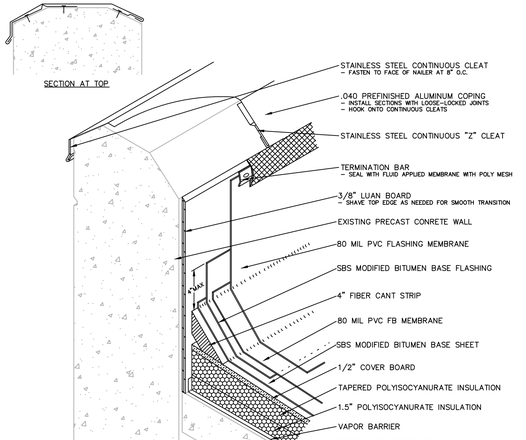


NOTE:
CONSTRUCTION IS SIMILAR ON EACH SIDE

10 CONTROL JOINT FLASHING
N.T.S



11 WALL EXPANSION JOINT FLASHING
N.T.S



12 PARAPET FLASHING
N.T.S

Actual Size to read at scale
2 IN
1 IN
0 IN

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PROJECT
ROOFING REPLACEMENT

Central Detention Facility
1901 D Street, SE
Washington DC

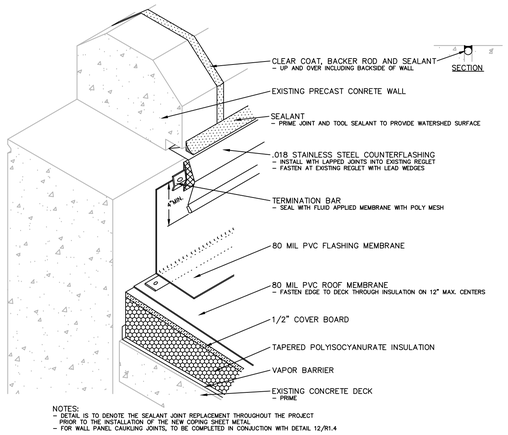
District of Columbia Department of Corrections

DRAWING DATES

NUMBER	DATE	COMMENTS

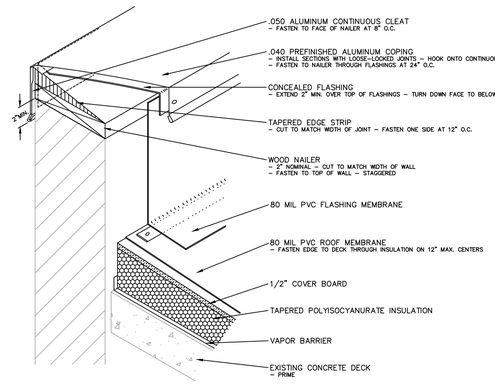
DRAWING TITLE
ROOF DETAILS - TYPE 1 ROOF

SHEET NUMBER
R1.4



NOTES:
– DETAIL IS TO DENOTE THE SEALANT JOINT REPLACEMENT THROUGHOUT THE PROJECT PRIOR TO THE INSTALLATION OF THE NEW COPING SHEET METAL
– FOR WALL PANEL CAULKING JOINTS, TO BE COMPLETED IN CONJUCTION WITH DETAIL 12/R1.4

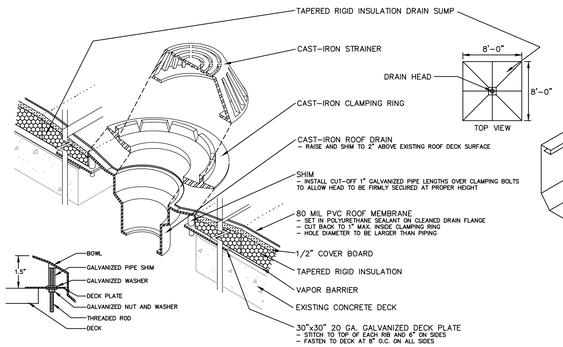
1 PARAPET FLASHING
N.T.S



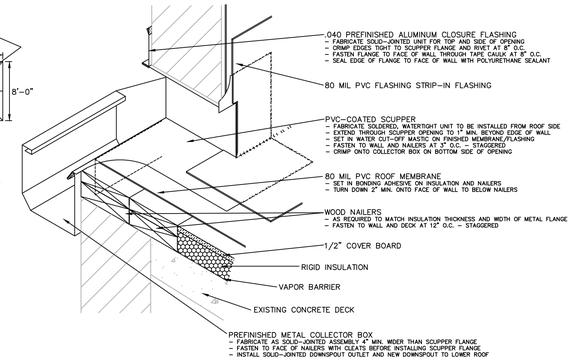
2 PARAPET FLASHING
N.T.S

3 NOT USED
N.T.S

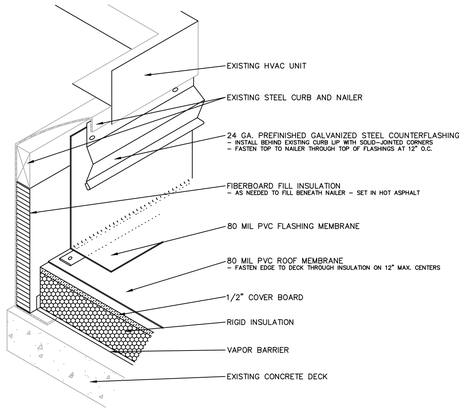
4 NOT USED
N.T.S



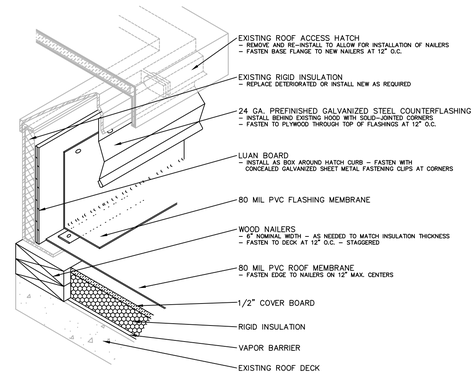
5 TYPICAL ROOF DRAIN
N.T.S



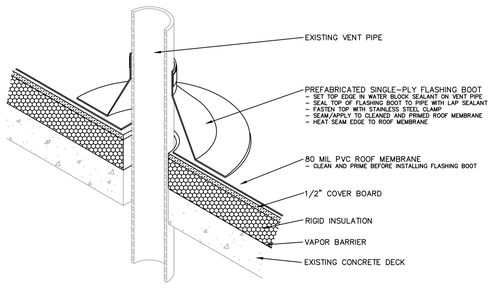
6 TYPICAL SCUPPER
N.T.S



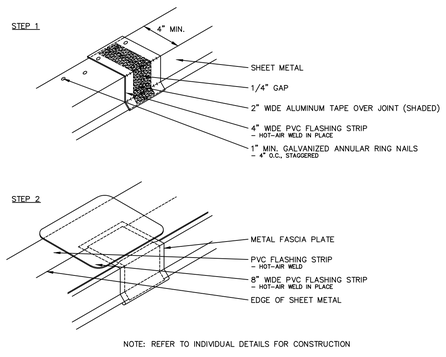
7 TYPICAL HVAC CURB
N.T.S



8 TYPICAL ROOF HATCH
N.T.S



9 TYPICAL VENT PIPE
N.T.S



NOTE: REFER TO INDIVIDUAL DETAILS FOR CONSTRUCTION

10 TYPICAL METAL JOINT FABRICATION
N.T.S

11 NOT USED
N.T.S

12 NOT USED
N.T.S

Actual Size to read at scale
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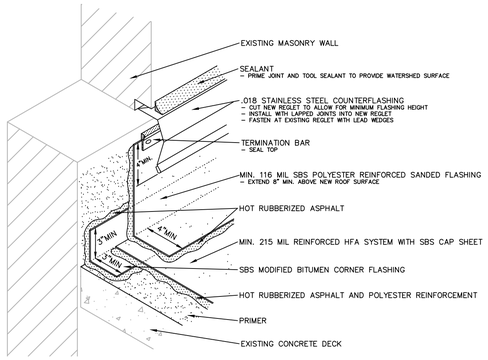
DRAWING DATES

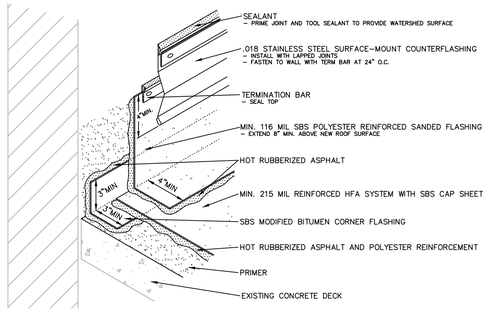
NUMBER	DATE	COMMENTS

DRAWING TITLE
ROOF / TYPICAL DETAILS - TYPE 3 ROOF

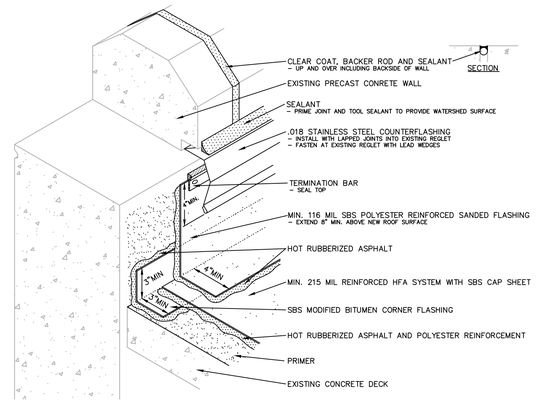
SHEET NUMBER
R1.5



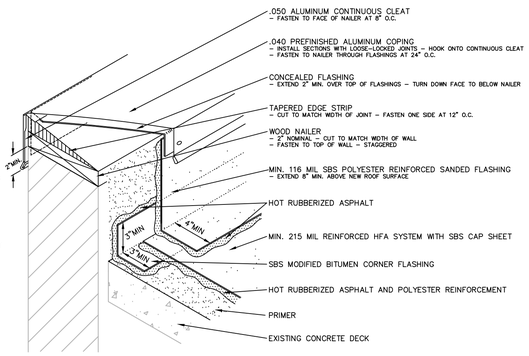
1 WALL FLASHING
N.T.S



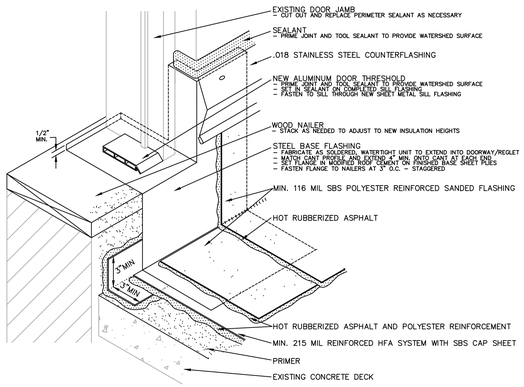
2 WALL FLASHING
N.T.S



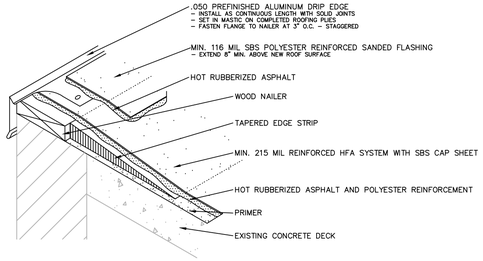
3 PARAPET FLASHING
N.T.S



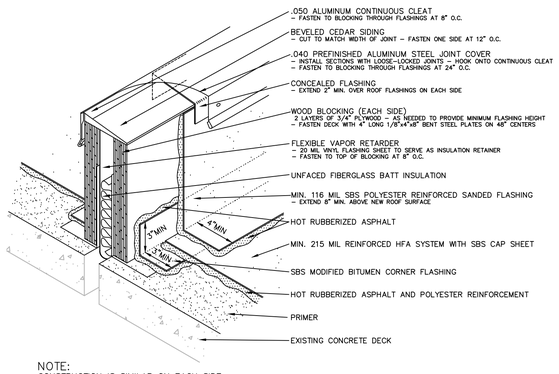
4 PARAPET FLASHING
N.T.S



5 DOOR THRESHOLD FLASHING
N.T.S



6 ROOF EDGE FLASHING
N.T.S



NOTE:
CONSTRUCTION IS SIMILAR ON EACH SIDE

7 CONTROL JOINT FLASHING
N.T.S

8 NOT USED
N.T.S

9 NOT USED
N.T.S

10 NOT USED
N.T.S

11 NOT USED
N.T.S

12 NOT USED
N.T.S

Actual Size to read at scale
0 IN 1 IN 2 IN

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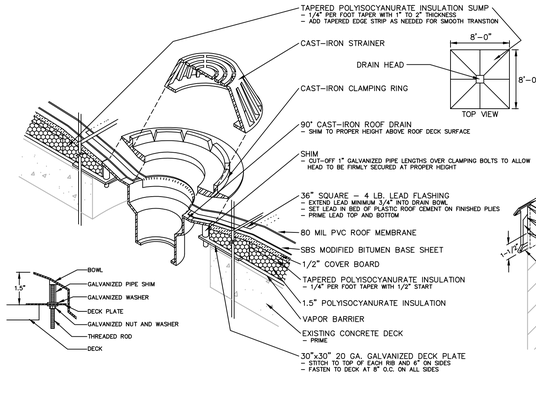
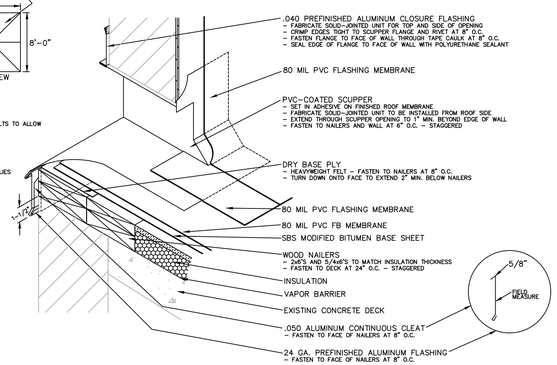
DRAWING TITLE
ROOF DETAILS - TYPE 2 ROOF

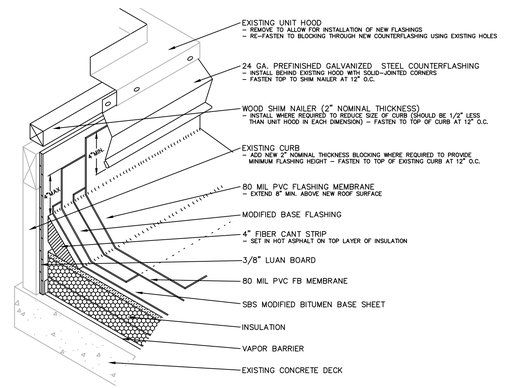
SHEET NUMBER
R1.6



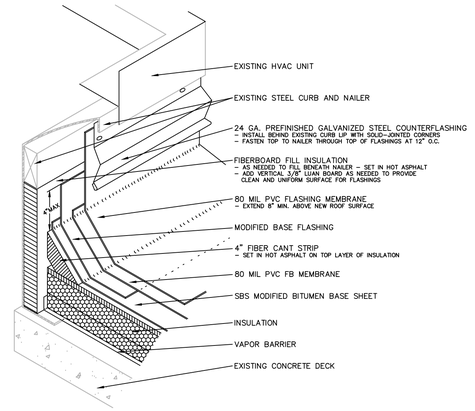
1 TYPICAL ROOF DRAIN
N.T.S



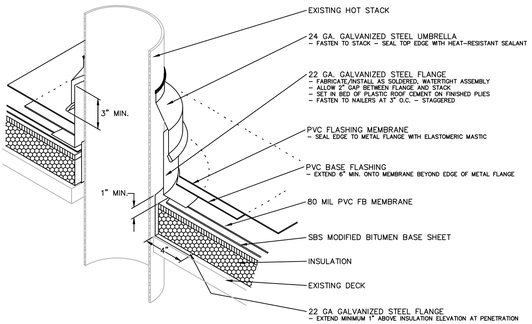
2 TYPICAL SCUPPER
N.T.S



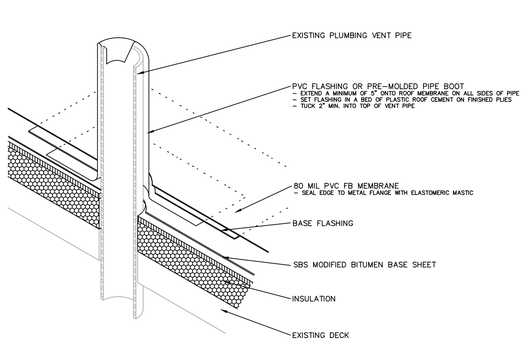
3 TYPICAL EXHAUST CURB
N.T.S



4 TYPICAL HVAC CURB
N.T.S

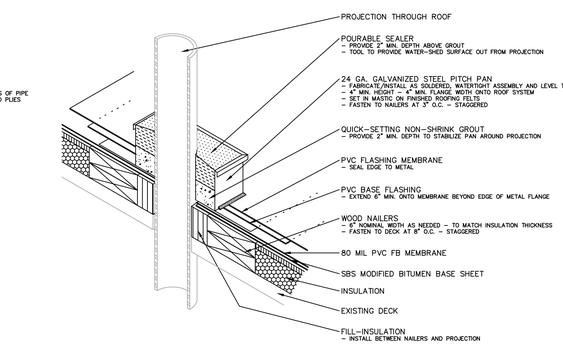


5 ROOF HATCH FLASHING
N.T.S

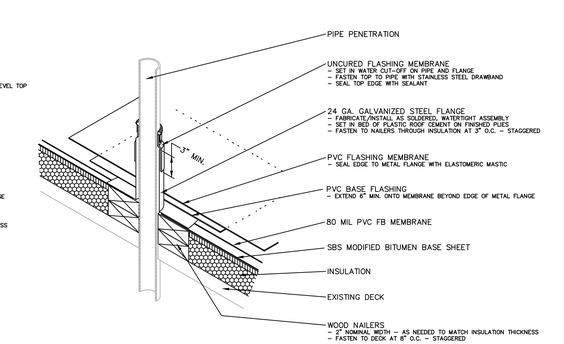


NOTE:
CONSTRUCTION IS SINILAR ON EACH SIDE

6 RAIL CURB SUPPORT
N.T.S



7 SUPPORT BASE
N.T.S



8 PAVER MEMBRANE PROTECTION
N.T.S

9 TYPICAL HOT STACK
N.T.S

10 TYPICAL SOIL STACK
N.T.S

11 TYPICAL PITCH PAN
N.T.S

12 TYPICAL PIPE PENETRATION
N.T.S

Actual Size to read at scale
0 IN 1 IN 2 IN

BLUEFIN

BLUEFIN LLC CORPORATE OFFICE
6312 S. Fiddlers Green Circle Suite 100E
Greenwood Village, CO 80111
TEL: 866-735-0728

MID-ATLANTIC OFFICE
2134 Espey Court Suite 14
Crofton, MD 21114
TEL: 410-881-0221

PROJECT
ROOFING REPLACEMENT

Central Detention Facility
1901 D Street, SE
Washington DC

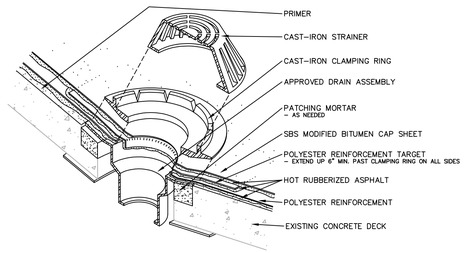
District of Columbia Department of Corrections

DRAWING DATES

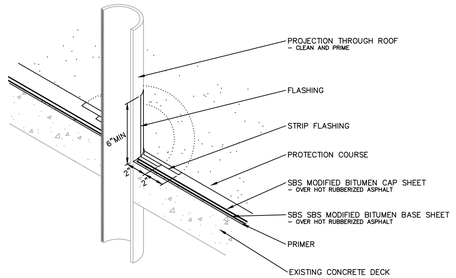
NUMBER	DATE	COMMENTS

DRAWING TITLE
TYPICAL ROOF DETAILS - TYPE 1 ROOF

SHEET NUMBER
R1.7



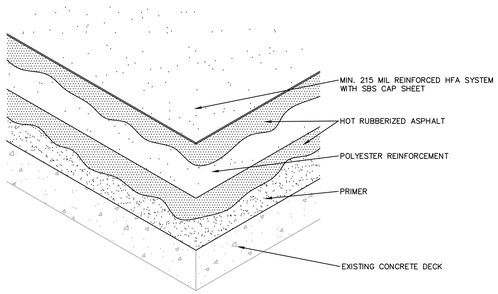
1 ROOF DRAIN
N.T.S



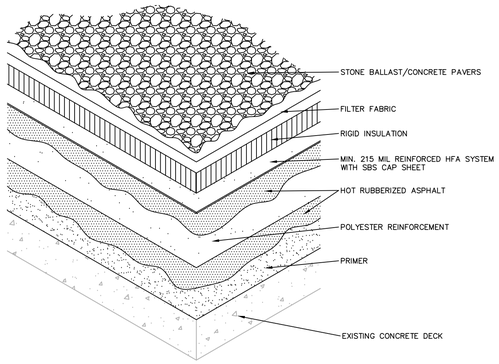
2 DETAIL
N.T.S

3 PIPE PENETRATION
N.T.S

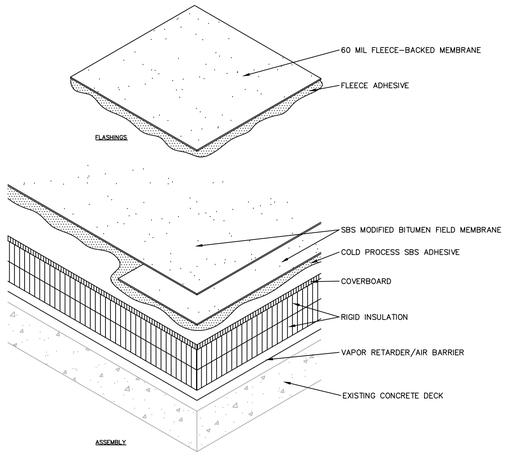
4 NOT USED
N.T.S



5 TYPICAL ROOF ASSEMBLY TYPE 2 ROOF (BASE)
N.T.S

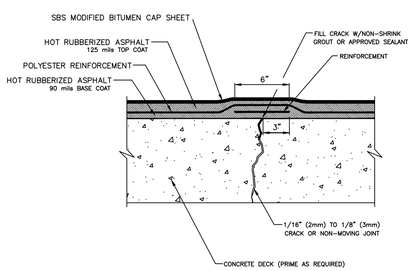


6 TYPICAL ROOF ASSEMBLY TYPE 2 ROOF
N.T.S

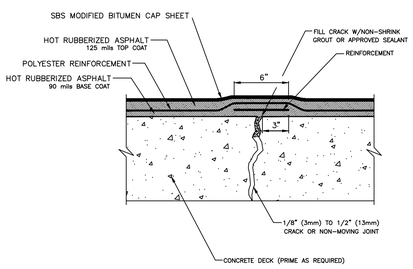


7 TYPICAL ROOF ASSEMBLY TYPE 1 ROOF
N.T.S

8 NOT USED
N.T.S



9 NON-MOVING JOINT UP TO 1/8"
N.T.S



10 NON-MOVING JOINT UP TO 1/2"
N.T.S

11 NOT USED
N.T.S

12 NOT USED
N.T.S

Actual Size to read at scale
0 IN 1 IN 2 IN

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PROJECT
ROOFING REPLACEMENT

Central Detention Facility
1901 D Street, SE
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District of Columbia Department of Corrections

DRAWING DATES

NUMBER	DATE	COMMENTS

DRAWING TITLE
TYPICAL ROOF DETAILS - TYPE 2 ROOF

SHEET NUMBER
R1.8

Condition Assessment Report

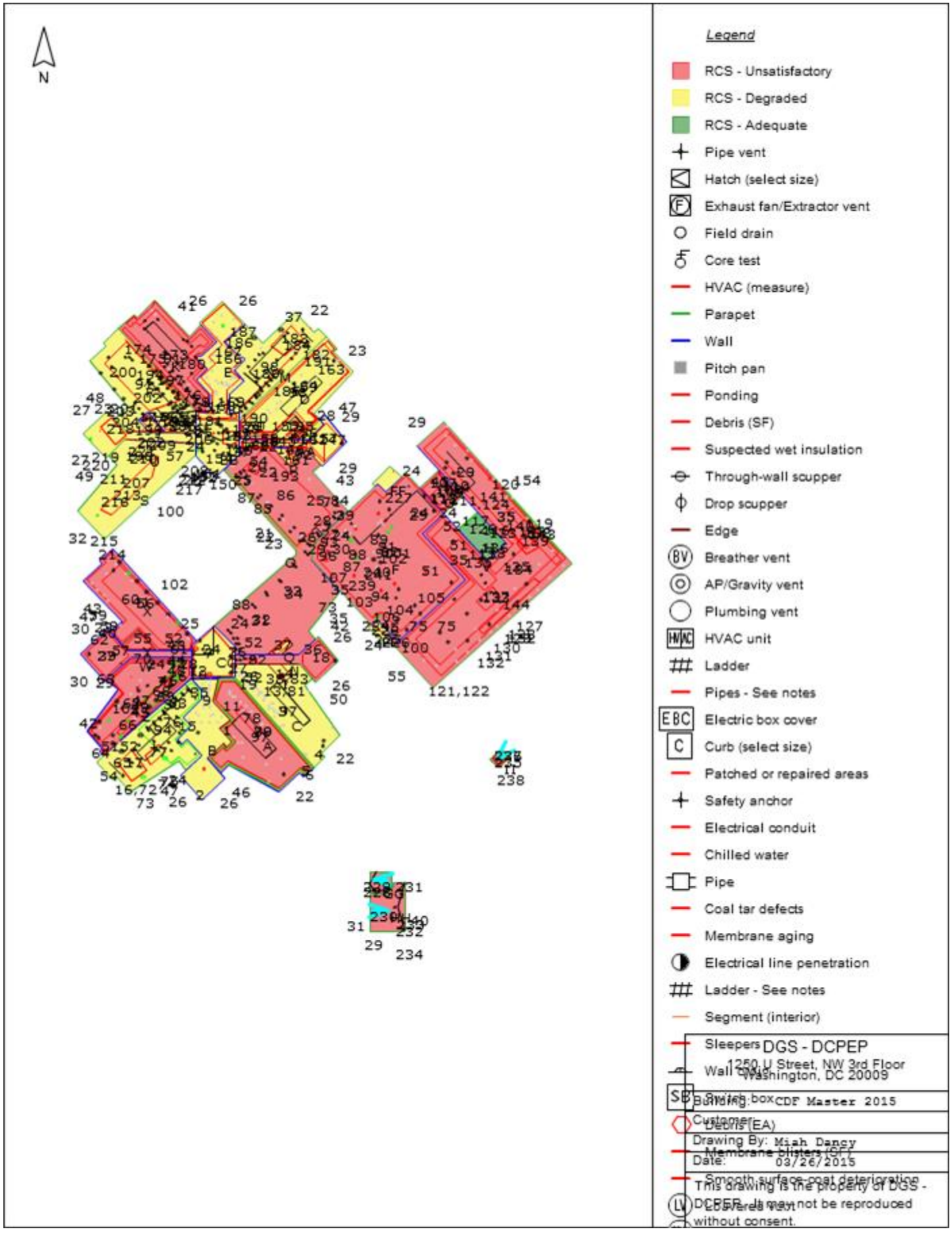
CDF Master 2015
1901 S Street SE
Washington, DC 20003

Inspection Date: Tuesday, March 17, 2015

Building & Job Summary

Building Name	CDF Master 2015
Building Address	1901 S Street SE Washington, DC 20003
Roof Area (total)	79,987 SF
Building Description	Building Type: Institutional/Government Building Zone: Institutional Roof Access: Stairwell
Inspection Date	Tuesday, March 17, 2015
Inspector	DGS - DCPEP Kevin KVersak kversak@bluefinllc.com
Building Contact	Matt Burress

Section Key Plan



Section Information

Section ID: A - A

Area: 3,855 SF

Roof Type: Built-up membrane
Layers:

- Surface:
  - Surface: Aggregate
  - Color: Tan
- Membrane:
  - Adhesive: Asphalt
  - # of plies: 3-4
  - Type of ply: Fiberglass
- Insulation:
  - Type: Perlite cover board
  - Thickness: 1"
  - # of layers: 1
  - Tapered: No
  - Slope: 0
  - Attachment: Fully adhered
- Insulation:
  - Type: Polyisocyanurate (Poly ISO) foam
  - Thickness: 1.50" - 5.5"
  - # of layers: 1
  - Tapered: Yes
  - Slope: 1/8
  - Attachment: fully mopped
- Deck:
  - Type: Precast concrete
  - Deck slope: unknown

Roof Condition Score: 48 (Unsatisfactory)

Section ID: AA - AA

Area: 1,229 SF

Roof Type: Built-up membrane
Layers:
- Surface:
- Membrane:
  - Adhesive: Asphalt
  - # of plies: 4
  - Type of ply: Fiberglass
- Insulation:
  - Type: Polyisocyanurate (Poly ISO) foam
  - Thickness: 1.50" - 5.5"
  - # of layers: 1
  - Tapered: Yes
  - Slope: 1/16
  - Attachment: Asphalt
- Deck:
  - Type: Precast concrete
  - Deck slope: 0
- Insulation:
  - Type: Perlite cover board
  - Thickness: 1"
  - # of layers: 1
  - Tapered: No
  - Slope: 0
  - Attachment: Asphalt

Roof Condition Score: 65 (Degraded)

Section ID: B - B

Area: 2,124 SF

Roof Type: Built-up membrane
Layers:
- Surface:
  - Surface: Aggregate
  - Color: Gray

Roof Condition Score: 66 (Degraded)

Section ID: BB - BB

Area: 1,322 SF

Roof Type: Built-up membrane
Layers:
- Surface:
- Membrane:
  - Adhesive: Asphalt
  - # of plies: 4
  - Type of ply: Fiberglass
- Insulation:
  - Type: Polyisocyanurate (Poly ISO) foam
  - Thickness: 1.50" - 5.5"
  - # of layers: 1
  - Tapered: Yes
  - Slope: 1/16
  - Attachment: Asphalt
- Deck:
  - Type: Precast concrete
  - Deck slope: 0
- Insulation:
  - Type: Perlite cover board
  - Thickness: 1"
  - # of layers: 1
  - Tapered: No
  - Slope: 0
  - Attachment: Asphalt

Roof Condition Score: 63 (Degraded)

Section ID: C - C

Area: 3,419 SF

Roof Type: Built-up membrane
Layers:
- Surface:
  - Surface: Aggregate
  - Color: Gray

Roof Condition Score: 65 (Degraded)

Section ID: CC - CC

Area: 1,214 SF

Roof Type: Built-up membrane
Layers:
- Surface:
- Membrane:
  - Adhesive: Asphalt
  - # of plies: 4
  - Type of ply: Fiberglass
- Insulation:
  - Type: Polyisocyanurate (Poly ISO) foam
  - Thickness: 1.50" - 5.5"
  - # of layers: 1
  - Tapered: Yes
  - Slope: 1/16
  - Attachment: Asphalt
- Deck:
  - Type: Precast concrete
  - Deck slope: 0
- Insulation:
  - Type: Perlite cover board
  - Thickness: 1"
  - # of layers: 1
  - Tapered: No
  - Slope: 0
  - Attachment: Asphalt

Roof Condition Score: 71 (Degraded)

Section ID: D - D

Area: 3,594 SF

Roof Type: Built-up membrane
Layers:
- Surface:
- Insulation:
  - Type: Polyisocyanurate ○ Thickness: 1.50" - 5.5"
  - # of layers: 1
  - Tapered: Yes
  - Attachment: Asphalt
- Membrane:
  - Adhesive: Asphalt
  - # of plies: 3-4
  - Type of ply: Felt
- Insulation:
  - Type: Perlite cover board
  - Thickness: 0.75"
  - # of layers: 1
  - Tapered: No
  - Attachment: Fully adhered
  - Slope: 0

Roof Condition Score: 66 (Degraded)

Section ID: D - D (Photo #4)

Area: 3,594 SF

Roof Condition Score: 66 (Degraded)

Section ID: D - D (Photo #5)

Area: 3,594 SF

Roof Condition Score: 66 (Degraded)

Section ID: D - D (Photo #6)

Area: 3,594 SF

Roof Condition Score: 66 (Degraded)

Section ID: DD - DD

Area: 211 SF

Roof Type: Built-up membrane
Layers:
- Surface:
  - Surface: Aggregate
  - Color: Tan
- Membrane:
  - Adhesive: Asphalt
  - # of plies: 3-4
  - Type of ply: Felt

Roof Condition Score: 70 (Degraded)

Section ID: E - E

Area: 2,227 SF

Roof Type: Built-up membrane
Layers:
- Membrane:
  - Adhesive: Asphalt
  - # of plies: 3 -4
  - Type of ply: Felt
- Surface:

Roof Condition Score: 66 (Degraded)

Section ID: E - E (Photo #2)

Area: 2,227 SF

Roof Condition Score: 66 (Degraded)

Section ID: EE - EE

Area: 142 SF

Roof Type: Built-up membrane
Layers:
- Membrane:

Roof Condition Score: 61 (Degraded)

Section ID: EE - EE (Photo #2)

Area: 142 SF

Roof Condition Score: 61 (Degraded)

Section ID: EE - EE (Photo #3)

Area: 142 SF

Roof Condition Score: 61 (Degraded)

Section ID: EE - EE (Photo #4)

Area: 142 SF

Roof Condition Score: 61 (Degraded)

Section ID: F - F

Area: 9,437 SF

Roof Type: Built-up membrane
Layers:
- Surface:
  - Surface: Aggregate
  - Color: Tan
- Membrane:
  - Adhesive: Asphalt
  - # of plies: 3-4
  - Type of ply: Fiberglass
- Insulation:
  - Type: Perlite cover board
  - Thickness: 1"
  - # of layers: 1
  - Tapered: No
  - Slope: 0
  - Attachment: Fully adhered
- Insulation:
  - Type: Polyisocyanurate (Poly ISO) foam
  - Thickness: 1.50"
  - # of layers: 1
  - Tapered: Yes
  - Slope: 1/8
  - Attachment: fully mopped
- Deck:
  - Type: Precast concrete
  - Deck slope: unknown

Roof Condition Score: 54 (Unsatisfactory)

Section ID: FF - FF

Area: 244 SF

Roof Type: Built-up membrane
Layers:
- Membrane:

Roof Condition Score: 61 (Degraded)

Section ID: FF - FF (Photo #2)

Area: 244 SF

Roof Condition Score: 61 (Degraded)

Section ID: G - G

Area: 612 SF

Roof Type: Built-up membrane
Layers:

- Surface:
  - Surface: Aggregate
  - Color: Tan
- Membrane:
  - Adhesive: Asphalt
  - # of plies: 3-4
  - Type of ply: Fiberglass
- Insulation:
  - Type: Perlite cover board
  - Thickness: 1"
  - # of layers: 1
  - Tapered: Yes
  - Slope: no
  - Attachment: Fully adhered
- Insulation:
  - Type: Polyisocyanurate (Poly ISO) foam
  - Thickness: 1.50"
  - # of layers: 1
  - Tapered: Yes
  - Slope: 1/8
  - Attachment: Spot adhered
- Deck:
  - Type: Metal
  - Deck slope: unknown

Roof Condition Score: 60 (Unsatisfactory)

Section ID: G - G (Photo #2)

Area: 612 SF

Roof Condition Score: 60 (Unsatisfactory)

Section ID: GG - GG

Area: 304 SF

Roof Type: Thermoset (Single ply - rubber)
Layers:
- Membrane:
  - Type: EPDM
  - Attachment: Fully adhered
  - Thickness: .045
  - Reinforced: No
  - Fire rated: No
  - Color: Black

Roof Condition Score: 58 (Unsatisfactory)

Section ID: GG - GG (Photo #2)

Area: 304 SF

Roof Condition Score: 58 (Unsatisfactory)

Section ID: GG - GG (Photo #3)

Area: 304 SF

Roof Condition Score: 58 (Unsatisfactory)

Section ID: H - H

Area: SF

Roof Type: Thermoset (Single ply - rubber)
Layers:
- Surface:
  - Surface: Black
- Membrane:
  - Type: EPDM
  - Attachment: Mechanically fastened
  - Thickness: .045
  - Reinforced: No
  - Fire rated: Unknown
  - Color: Black

Roof Condition Score: 83 (Adequate)

Section ID: HH - HH

Area: 995 SF

Roof Type: Thermoset (Single ply - rubber)
Layers:
- Membrane:
  - Type: EPDM
  - Attachment: Fully adhered
  - Thickness: .045
  - Reinforced: No
  - Fire rated: No
  - Color: Black
- Insulation:
  - Type: Fiberboard
  - Thickness: 0.50"
  - # of layers: 1
  - Tapered: No
  - Attachment: Mechanical
  - Slope: 0
- Insulation:
  - Type: Polyisocyanurate (Poly ISO) foam
  - Thickness: 2" - 4.5"
  - # of layers: 2
  - Tapered: yes
  - Attachment: Mechanical
  - Slope:1/8
- Deck:
  - Type: Precast concrete
  - Deck slope: unknown

Roof Condition Score: 53 (Unsatisfactory)

Section ID: HH - HH (Photo #2)

Area: 995 SF

Roof Condition Score: 53 (Unsatisfactory)

Section ID: HH - HH (Photo #3)

Area: 995 SF

Roof Condition Score: 53 (Unsatisfactory)

Section ID: HH - HH (Photo #4)

Area: 995 SF

Roof Condition Score: 53 (Unsatisfactory)

Section ID: HH - HH (Photo #5)

Area: 995 SF

Roof Condition Score: 53 (Unsatisfactory)

Section ID: I - I

Area: 137 SF

Roof Type: Built-up membrane
Layers:
- Surface:
  - Surface: Aggregate
  - Color: Tan
- Membrane:

Roof Condition Score: 66 (Degraded)

Section ID: I - I (Photo #2)

Area: 137 SF

Roof Condition Score: 66 (Degraded)

Section ID: II - II

Area: 119 SF

Roof Type: Buildt up roof
Layers:
- Membrane:
  - Application: Hot mop
  - Type: Multi-ply
  - Base sheet type: Asphalt
- Membrane:
  - Adhesive: Asphalt
  - # of plies: 3 -4
  - Type of ply: Asphalt
- Insulation:
  - Type: Perlite cover board
  - Thickness: 4"
  - # of layers: 1
  - Tapered: No
  - Attachment: Fully adhered
  - Slope: 0
- Deck:
  - Type: Precast concrete
  - Deck slope: 1/8

Roof Condition Score: 48 (Unsatisfactory)

Section ID: II - II (Photo #2)

Area: 119 SF

Roof Condition Score: 48 (Unsatisfactory)

Section ID: II - II (Photo #3)

Area: 119 SF

Roof Condition Score: 48 (Unsatisfactory)

Section ID: II - II (Photo #4)

Area: 119 SF

Roof Condition Score: 48 (Unsatisfactory)

Section ID: J - J

Area: 173 SF

Roof Type: Built-up membrane
Layers:
- Surface:
  - Surface: Aggregate
  - Color: Tan
- Membrane:

Roof Condition Score: 75 (Degraded)

Section ID: K - K

Area: 3,241 SF

Roof Type: Built-up membrane
Layers:
- Surface:
  - Surface: Aggregate
  - Color: Tan
- Membrane:

Roof Condition Score: 59 (Unsatisfactory)

Section ID: K - K (Photo #2)

Area: 3,241 SF

Roof Condition Score: 59 (Unsatisfactory)

Section ID: K - K (Photo #3)

Area: 3,241 SF

Roof Condition Score: 59 (Unsatisfactory)

Section ID: K - K (Photo #4)

Area: 3,241 SF

Roof Condition Score: 59 (Unsatisfactory)

Section ID: K - K (Photo #5)

Area: 3,241 SF

Roof Condition Score: 59 (Unsatisfactory)

Section ID: K - K (Photo #6)

Area: 3,241 SF

Roof Condition Score: 59 (Unsatisfactory)

Section ID: K - K (Photo #7)

Area: 3,241 SF

Roof Condition Score: 59 (Unsatisfactory)

Section ID: L - L

Area: 3,552 SF

Roof Type: Built-up membrane
Layers:
- Membrane:

Roof Condition Score: 66 (Degraded)

Section ID: L - L (Photo #2)

Area: 3,552 SF

Roof Condition Score: 66 (Degraded)

Section ID: L - L (Photo #3)

Area: 3,552 SF

Roof Condition Score: 66 (Degraded)

Section ID: L - L (Photo #4)

Area: 3,552 SF

Roof Condition Score: 66 (Degraded)

Section ID: L - L (Photo #5)

Area: 3,552 SF

Roof Condition Score: 66 (Degraded)

Section ID: M - M

Area: 3,135 SF

Roof Type: Built-up membrane
Layers:
- Membrane:

Roof Condition Score: 69 (Degraded)

Section ID: N - N

Area: 1,049 SF

Roof Type: Built-up membrane
Layers:
- Surface:
  - Surface: Aggregate
  - Color: Tan
- Membrane:

Roof Condition Score: 56 (Unsatisfactory)

Section ID: N - N (Photo #2)

Area: 1,049 SF

Roof Condition Score: 56 (Unsatisfactory)

Section ID: N - N (Photo #3)

Area: 1,049 SF

Roof Condition Score: 56 (Unsatisfactory)

Section ID: O - O

Area: 9,506 SF

Roof Type: Built-up membrane
Layers:
- Surface:
  - Surface: Aggregate
  - Color: Tan
- Membrane:
  - Adhesive: Asphalt
  - # of plies: 3-4
  - Type of ply: Fiberglass
- Insulation:
  - Type: Perlite cover board
  - Thickness: 1"
  - # of layers: 1
  - Tapered: No
  - Slope: 0
  - Attachment: Fully adhered
- Insulation:
  - Type: Polyisocyanurate (Poly ISO) foam
  - Thickness: 1.50" - 5.5"
  - # of layers: multiple
  - Tapered: Yes
  - Slope: 1/8
  - Attachment: Spot adhered
- Deck:
  - Type: Precast concrete
  - Deck slope: 0

Roof Condition Score: 34 (Unsatisfactory)

Section ID: O - O (Photo #2)

Area: 9,506 SF

Roof Condition Score: 34 (Unsatisfactory)

Section ID: O - O (Photo #3)

Area: 9,506 SF

Roof Condition Score: 34 (Unsatisfactory)

Section ID: P - P

Area: 174 SF

Roof Type: Built-up membrane
Layers:

- Surface:
  - Surface: Aggregate
  - Color: Tan
- Membrane:
  - Adhesive: Asphalt
  - # of plies: 3-4
  - Type of ply: Fiberglass
- Insulation:
  - Type: Perlite cover board
  - Thickness: 1"
  - # of layers: 1
  - Tapered: No
  - Slope: 0
  - Attachment: Fully adhered
- Insulation:
  - Type: Polyisocyanurate (Poly ISO) foam
  - Thickness: 1.50" - 5.5"
  - # of layers: 1
  - Tapered: Yes
  - Slope: 1/8
  - Attachment: Spot adhered
- Deck:
  - Type: Precast concrete
  - Deck slope: 0

Roof Condition Score: 67 (Degraded)

Section ID: Q - Q

Area: 118 SF

Roof Type: Built-up membrane
Layers:
- Surface:
  - Surface: Aggregate
  - Color: Tan
- Membrane:
  - Adhesive: Asphalt
  - # of plies: 3-4
  - Type of ply: Fiberglass
- Insulation:
  - Type: Perlite cover board
  - Thickness: 1"
  - # of layers: 1
  - Tapered: No
  - Slope: 0
  - Attachment: Fully adhered
- Insulation:
  - Type: Polyisocyanurate (Poly ISO) foam
  - Thickness: 1.50" - 5.5"
  - # of layers: 1
  - Tapered: Yes
  - Slope: 1/8
  - Attachment: Spot adhered
- Deck:
  - Type: Precast concrete
  - Deck slope: 0

Roof Condition Score: 66 (Degraded)

Section ID: Q - Q (Photo #2)

Area: 118 SF

Roof Condition Score: 66 (Degraded)

Section ID: R - R

Area: 3,521 SF

Roof Type: Built-up membrane
Layers:
- Surface:
  - Surface: Aggregate
  - Color: Tan
- Membrane:
  - Adhesive: Asphalt
  - # of plies: 3-4
  - Type of ply: Fiberglass
- Insulation:
  - Type: Perlite cover board
  - Thickness: 1"
  - # of layers: 1
  - Tapered: No
  - Slope: 0
  - Attachment: Fully adhered
- Insulation:
  - Type: Polyisocyanurate (Poly ISO) foam
  - Thickness: 1.50" - 5.5"
  - # of layers: 1
  - Tapered: Yes
  - Slope: 1/8
  - Attachment: Spot adhered
- Deck:
  - Type: Precast concrete
  - Deck slope: 0

Roof Condition Score: 64 (Degraded)

Section ID: R - R (Photo #2)

Area: 3,521 SF

Roof Condition Score: 64 (Degraded)

Section ID: R - R (Photo #3)

Area: 3,521 SF

Roof Condition Score: 64 (Degraded)

Section ID: R - R (Photo #4)

Area: 3,521 SF

Roof Condition Score: 64 (Degraded)

Section ID: R - R (Photo #5)

Area: 3,521 SF

Roof Condition Score: 64 (Degraded)

Section ID: S - S

Area: 3,462 SF

Roof Type: Built-up membrane
Layers:
- Surface:
  - Surface: Aggregate
  - Color: Tan
- Membrane:
  - Adhesive: Asphalt
  - # of plies: 3-4
  - Type of ply: Fiberglass
- Insulation:
  - Type: Perlite cover board
  - Thickness: 1"
  - # of layers: 1
  - Tapered: No
  - Slope: 0
  - Attachment: Fully adhered
- Insulation:
  - Type: Polyisocyanurate (Poly ISO) foam
  - Thickness: 1.50" - 5.5"
  - # of layers: 1
  - Tapered: Yes
  - Slope: 1/8
  - Attachment: Spot adhered
- Deck:
  - Type: Precast concrete
  - Deck slope: 0

Roof Condition Score: 71 (Degraded)

Section ID: S - S (Photo #2)

Area: 3,462 SF

Roof Condition Score: 71 (Degraded)

Section ID: T - T

Area: 1,148 SF

Roof Type: Built-up membrane
Layers:
- Surface:
  - Surface: Aggregate
  - Color: Tan
- Membrane:
  - Adhesive: Asphalt
  - # of plies: 3-4
  - Type of ply: Fiberglass
- Insulation:
  - Type: Perlite cover board
  - Thickness: 1"
  - # of layers: 1
  - Tapered: No
  - Slope: 0
  - Attachment: Fully adhered
- Insulation:
  - Type: Polyisocyanurate (Poly ISO) foam
  - Thickness: 1.50" - 5.5"
  - # of layers: 1
  - Tapered: Yes
  - Slope: 1/8
  - Attachment: Spot adhered
- Deck:
  - Type: Precast concrete
  - Deck slope: 0

Roof Condition Score: 73 (Degraded)

Section ID: T - T (Photo #2)

Area: 1,148 SF

Roof Condition Score: 73 (Degraded)

Section ID: U - U

Area: 170 SF

Roof Type: Built-up membrane
Layers:
- Surface:
  - Surface: Aggregate
  - Color: Tan
- Membrane:
  - Adhesive: Asphalt
  - # of plies: 3-4
  - Type of ply: Fiberglass
- Insulation:
  - Type: Perlite cover board
  - Thickness: 1"
  - # of layers: 1
  - Tapered: No
  - Slope: 0
  - Attachment: Fully adhered
- Insulation:
  - Type: Polyisocyanurate (Poly ISO) foam
  - Thickness: 1.50" - 5.5"
  - # of layers: 1
  - Tapered: Yes
  - Slope: 1/8
  - Attachment: Spot adhered
- Deck:
  - Type: Precast concrete
  - Deck slope: 0

Roof Condition Score: 75 (Degraded)

Section ID: U - U (Photo #2)

Area: 170 SF

Roof Condition Score: 75 (Degraded)

Section ID: V - V

Area: 11,526 SF
Roof Type: Built-up membrane
Layers:
- Surface:
  - Surface: Aggregate
  - Color: Tan
- Membrane:
  - Adhesive: Asphalt
  - # of plies: 3-4
  - Type of ply: Fiberglass
- Insulation:
  - Type: Perlite cover board
  - Thickness: 1"
  - # of layers: 1
  - Tapered: No
  - Slope: 0
  - Attachment: Fully adhered
- Insulation:
  - Type: Polyisocyanurate (Poly ISO) foam
  - Thickness: 1.50" - 5.5"
  - # of layers: 1
  - Tapered: Yes
  - Slope: 1/8
  - Attachment: Spot adhered
- Deck:
  - Type: Precast concrete
  - Deck slope: 0

Roof Condition Score: 43 (Unsatisfactory)

Section ID: V - V (Photo #2)

Area: 11,526 SF

Roof Condition Score: 43 (Unsatisfactory)

Section ID: V - V (Photo #3)

Area: 11,526 SF

Roof Condition Score: 43 (Unsatisfactory)

Section ID: V - V (Photo #4)

Area: 11,526 SF

Roof Condition Score: 43 (Unsatisfactory)

Section ID: W - W

Area: 1,196 SF

Roof Type: Built-up membrane
Layers:
- Surface:
- Membrane:
  - Adhesive: Asphalt
  - # of plies: 3-4
  - Type of ply: Fiberglass
- Insulation:
  - Type: Polyisocyanurate (Poly ISO) foam
  - Type: Perlite
  - Thickness: 1.50" - 3.5"
  - # of layers: 1
  - Tapered: Yes
  - Slope: 1/8
  - Attachment: Asphalt
- Deck:
  - Type: Precast concrete
  - Deck slope: 0

Roof Condition Score: 60 (Unsatisfactory)

Section ID: W - W (Photo #2)

Area: 1,196 SF

Roof Condition Score: 60 (Unsatisfactory)

Section ID: W - W (Photo #3)

Area: 1,196 SF

Roof Condition Score: 60 (Unsatisfactory)

Section ID: W - W (Photo #4)

Area: 1,196 SF

Roof Condition Score: 60 (Unsatisfactory)

Section ID: W - W (Photo #5)

Area: 1,196 SF

Roof Condition Score: 60 (Unsatisfactory)

Section ID: W - W (Photo #6)

Area: 1,196 SF

Roof Condition Score: 60 (Unsatisfactory)

Section ID: X - X

Area: 3,294 SF
Roof Type: Built-up membrane
Layers:
- Surface:
  - Surface: Aggregate
  - Color: Tan
- Membrane:
  - Adhesive: Asphalt
  - # of plies: 3-4
  - Type of ply: Fiberglass
- Insulation:
  - Type: Perlite cover board
  - Thickness: 1"
  - # of layers: 1
  - Tapered: No
  - Slope: 0
  - Attachment: Fully adhered
- Insulation:
  - Type: Polyisocyanurate (Poly ISO) foam
  - Thickness: 1.50" - 5.5"
  - # of layers: 1
  - Tapered: Yes
  - Slope: 1/8
  - Attachment: Spot adhered
- Deck:
  - Type: Precast concrete
  - Deck slope: 0

Roof Condition Score: 58 (Unsatisfactory)

Section ID: X - X (Photo #2)

Area: 3,294 SF

Roof Condition Score: 58 (Unsatisfactory)

Section ID: X - X (Photo #3)

Area: 3,294 SF

Roof Condition Score: 58 (Unsatisfactory)

Section ID: X - X (Photo #4)

Area: 3,294 SF

Roof Condition Score: 58 (Unsatisfactory)

Section ID: X - X (Photo #5)

Area: 3,294 SF

Roof Condition Score: 58 (Unsatisfactory)

Section ID: X - X (Photo #6)

Area: 3,294 SF

Roof Condition Score: 58 (Unsatisfactory)

Section ID: X - X (Photo #7)

Area: 3,294 SF

Roof Condition Score: 58 (Unsatisfactory)

Section ID: X - X (Photo #8)

Area: 3,294 SF

Roof Condition Score: 58 (Unsatisfactory)

Section ID: Y - Y

Area: 236 SF

Roof Type: Built-up membrane
Layers:
- Surface:
- Membrane:
  - Adhesive: Asphalt
  - # of plies: 3-4
  - Type of ply: Fiberglass
- Insulation:
  - Type: Polyisocyanurate (Poly ISO) foam
  - Type: Perlite
  - Thickness: 1.50" - 3.5"
  - # of layers: 1
  - Tapered: Yes
  - Slope: 1/8
  - Attachment: Asphalt
- Deck:
  - Type: Precast concrete
  - Deck slope: 0

Roof Condition Score: 60 (Unsatisfactory)

Section ID: Y - Y (Photo #2)

Area: 236 SF

Roof Condition Score: 60 (Unsatisfactory)

Section ID: Z - Z

Area: 3,301 SF
Roof Type: Built-up membrane
Layers:
- Surface:
  - Surface: Aggregate
  - Color: Tan
- Membrane:
  - Adhesive: Asphalt
  - # of plies: 3-4
  - Type of ply: Fiberglass
- Insulation:
  - Type: Perlite cover board
  - Thickness: 1"
  - # of layers: 1
  - Tapered: No
  - Slope: 0
  - Attachment: Fully adhered
- Insulation:
  - Type: Polyisocyanurate (Poly ISO) foam
  - Thickness: 1.50" - 5.5"
  - # of layers: 1
  - Tapered: Yes
  - Slope: 1/8
  - Attachment: Spot adhered
- Deck:
  - Type: Precast concrete
  - Deck slope: 0

Roof Condition Score: 46 (Unsatisfactory)

Section ID: Z - Z (Photo #2)

Area: 3,301 SF

Roof Condition Score: 46 (Unsatisfactory)

Section ID: Z - Z (Photo #3)

Area: 3,301 SF

Roof Condition Score: 46 (Unsatisfactory)

Section ID: Z - Z (Photo #4)

Area: 3,301 SF

Roof Condition Score: 46 (Unsatisfactory)

Section ID: Z - Z (Photo #5)

Area: 3,301 SF

Roof Condition Score: 46 (Unsatisfactory)

Roof Condition Scores

Section	Score
A - A (Area = 3,855 SF)	48 - Unsatisfactory
AA - AA (Area = 1,229 SF)	65 - Degraded
B - B (Area = 2,124 SF)	66 - Degraded
BB - BB (Area = 1,322 SF)	63 - Degraded
C - C (Area = 3,419 SF)	65 - Degraded
CC - CC (Area = 1,214 SF)	71 - Degraded
D - D (Area = 3,594 SF)	66 - Degraded
DD - DD (Area = 211 SF)	70 - Degraded
E - E (Area = 2,227 SF)	66 - Degraded
EE - EE (Area = 142 SF)	61 - Degraded
F - F (Area = 9,437 SF)	54 - Unsatisfactory
FF - FF (Area = 244 SF)	61 - Degraded
G - G (Area = 612 SF)	60 - Unsatisfactory
GG - GG (Area = 304 SF)	58 - Unsatisfactory
H - H (Area = 0 SF)	83 - Adequate
HH - HH (Area = 995 SF)	53 - Unsatisfactory
I - I (Area = 137 SF)	66 - Degraded
II - II (Area = 119 SF)	48 - Unsatisfactory
J - J (Area = 173 SF)	75 - Degraded
K - K (Area = 3,241 SF)	59 - Unsatisfactory
L - L (Area = 3,552 SF)	66 - Degraded

Section	Score
M - M (Area = 3,135 SF)	69 - Degraded
N - N (Area = 1,049 SF)	56 - Unsatisfactory
O - O (Area = 9,506 SF)	34 - Unsatisfactory
P - P (Area = 174 SF)	67 - Degraded
Q - Q (Area = 118 SF)	66 - Degraded
R - R (Area = 3,521 SF)	64 - Degraded
S - S (Area = 3,462 SF)	71 - Degraded
T - T (Area = 1,148 SF)	73 - Degraded
U - U (Area = 170 SF)	75 - Degraded
V - V (Area = 11,526 SF)	43 - Unsatisfactory
W - W (Area = 1,196 SF)	60 - Unsatisfactory
X - X (Area = 3,294 SF)	58 - Unsatisfactory
Y - Y (Area = 236 SF)	60 - Unsatisfactory
Z - Z (Area = 3,301 SF)	46 - Unsatisfactory

Legend

	Adequate (0%)
	Degraded (39%)
	Unsatisfactory (61%)
	Unspecified (0%)