GOVERNMENT OF THE DISTRICT OF COLUMBIA DEPARTMENT OF GENERAL SERVICES

DEPARTMENT OF CORRECTIONS ROOF REPLACEMENT Solicitation Number: DCAM-16-CS-0091 Invitation-for-Bids

Amendment No. 6

This Amendment No. 6 is being issued on April 14, 2016. Except as modified hereby, the Invitation-for-Bid ("IFB") remains unmodified.

Item#1B.3 Contractor Requirements:

Insert:

- 6. DC Government will not be performing any physical work related to the roof replacement. The selected contractor is responsible for executing the project according to the procurement and contract documents.
- 7. A complete inventory of tools being stored onsite will need to be submitted to DOC before mobilization. The inventory will be confirmed at the completion of the project. The contractor will be held responsible for any lost tools or discrepancies.

Item# 2 Request for Information (RFI):

Please see attached responses to RFI's (Exhibit 1).

Item #3 A.5 Attachments

Insert: Attachment N- Central Detention Roofing dated 4/7/16 (**Exhibit 2**)

Insert: Attachment O- Condition Assessment Report (Exhibit 3)

Supporting Documents:

Exhibit 1- Responses to RFI's

Exhibit 2- Central Detention Roofing dated 4/7/16

Exhibit 3- Condition Assessment Report

- End of Amendment No. 6-

Exhibit 1 Responses to RFI's

	Invitation for Bid DCAM-16-CS-0091 DOC Roof Replacement				
No.	Question	Answer			
	Please provide core cuts discussed at the pre-bid.	Please see Condition Assessment Report. (Exhibit 3)			
	Please provide the thickness of XPS insulation (or R-Value) desired.	XPS thickness must be 4" R=20.00			
3	Please provide the security protocol as it relates to flammable	You will be issued a burn permit and as long as conditions on the			
	liquids on the roof needed to run rooftop equipment and melters?	roof are acceptable for burning, it won't be an issue.			
	Please confirm that densdeck will be an acceptable coverboard in lieu of sopraboard.	Densdeck is an acceptable coverboard.			
	I understand an existing condition report with photographs and core cuts is available, I'd like to request a full copy.	Please see Condition Assessment Report. (Exhibit 3)			
6	Speaking to use and storage of fuels for the melter in support of the hot rubberized roof, will usable quantities of the required fuel (diesel, propane) to power the hot melter be allowed to be stored on the roof? If yes, how many gallons/ pounds will be allowed?	Fuel can be stored on the roof. It would need to be stored in a flammable storage cabinet.			
7	What are the work hours? Will weekend work be allowed?	Exact work hours and activities will need to be coordinated/scheduled with DOC. However, in general, hours will fall between 7am and 7pm, Monday through Saturday.			
8	Will a building permit be required? If yes, will DOC provide?	The selected contractor will be required to comply with DCRA's permitting regulations.			
9	Will a burn permit be required for the hot melter? If yes, will DOC provide?	Coordination with DOC in regards to hot work will be required.			
10	Is there any asbestos and/or lead on the roof? If yes, will DOC abate before roof demolition?	The contractor will be required to execute the project. To date, no asbestos has been found.			
11	What is the project duration?	Please see Amendment #3.			
12	When is anticipated award date?	Within 2 weeks of the bid opening.			
13	Para G.2 Confirm that attendance at the Pre-Bid is not a prerequisite to bid the Project ?	Attendance to the pre-bid meetings was not required. Notifying DGS of attendance to the site walks was.			
14	As all contractors were not able to attend the pre-bid and walk thru can photos, roof cuts and the Consultants detailed roof report be provided to the bidders?	Please see Condition Assessment Report. (Exhibit 3)			
15	Can an estimate be provided of the time duration it will take each day to pass thru security in the morning and in the afternoon for each roofer?	Due to the fact there are many variables that affect the time required an estimate can't be provided. The process trypically takes between 5 and 10 minutes.			
16	Can an estimate be provided of the time duration for the following deliveries to pass thru security and enter the site, dumpster exchange, crane, portolet service, material deliveries?	No. Loading dock deliveries can be made between 6am - 2pm and no deliveries should take an excessive amount of time if adequate preparation and planning have ocurred.			
17	Will a trash chute be able to be set up on the project at different locations?	Yes, specifics will need to be coordinated with DOC.			
18	All drawings are marked N.T.S. Not to Scale. As there had to be some kind of scale when the drawings were prepared can that	Please see Condition Assessment Report. (Exhibit 3)			
19	scale be provided for each drawing? Is there a lightning protection system that needs to be re-installed by the roofing contractor?	The Lightning Protection has not been tested at this time. The Contractor should document the existing condition prior to roofing and replace as it was found.			
20	If there is an existing lightning protection system does it need to be retested and re-certified by the roofing Contractor?	Not at this time.			
21	Spec 071401-2.03 F & G Confirm that a 90 mil separation layer is to be installed in the top layer of Hot Fluid Applied Asphalt Roofing while still tacky and that a 2nd loose laid Item D protection course is not required?	Detail 6 of R 1.8 is the assembly with 4" XPS			
22	Spec 071401-3.02 Substrate Preparation – Can you provide information as far as which of the substrates exist under the areas to receive the Hot Applied Rubberized Asphalt?	Please see Condition Assessment Report. (Exhibit 3)			
23	Spec 071401-2.03-I Insulation – Please provide the required thickness of Extruded Insulation for the HARA System	Detail 6 of R 1.8 is the assembly with 4" XPS			
24	Spec 071401-2.03-K.1 & K.2 Topping Materials – Specification calls out Architectural Pavers and mentions Roofing Ballast. Which material is to be utilized on top of the Extruded Insulation?	Detail 6 of R 1.8 is the assembly with 4" XPS - Pavers are only to be applied at acess points (Ladders, Doors and RTU Maintenance Panels, in accordance with the Manufacturers Specifications.			
25	Spec 071401-2.03-K.1-6 Architectural Paver Color and Finish – Provide information or confirm if the manufacturer's typical utility paver can be installed?	Standard Manufacturer's buff diamond finish.			

26	Spec 071401-3.06-B Protection Course – (same as question #10) Referenced Item 3.06-B appears to describe an Asphaltic Protection board to be loose laid over the SBS Separation Layer that was embedded in the top of the HARA while still tacky. If the manufacturer does not require this to be installed for the warranty does it still need to be installed? Is this asphaltic protection board to be installed on the horizontal as well as the vertical flashing?	Detail 6 of R 1.8 is the assembly with 4" XPS - Pavers are only to be applied at acess points (Ladders, Doors and RTU Maintenance Panels, in accordance with the Manufacturers Specifications.
27	Spec 071401-3.06-C Drainage Course (if required) – Confirm if drainage board is to be installed?	Detail 6 of R 1.8 is the assembly with 4" XPS - Pavers are only to be applied at acess points (Ladders, Doors and RTU Maintenance Panels, in accordance with the Manufacturers Specifications.
	Spec 071401-3.06-E Architectural Paver Placement (walkway and RTU Protection) – Provide drawing that provides layout of walkway and RTU paver layout. Drawing R1.6, Details 1 the 4 – Flashing is called out to be a 116 mil SBS sanded sheet embedded in HFA and then per Question #13 above covered with asphaltic protection course for UV protection. Can a granulated flashing sheet be installed in the Hot Rubber?	The walkway specifications were provided for the minimum manufacturers' requirements at all RTU Service Panels, Roof access and Roof ladders. Yes, a granulated flashing grade membrane approved by the manufacturer will be accepted.
30	Spec 075360-2.05-C.2 Fasteners – Should the insulation be secured per FM 1-60 or FM1-90?	The wind loading and insulation adhesive patterns should be applied in accordance with ASCE 7 Standard for Components and Cladding
	Spec 075419-2.05-A Flexible Walkways - Provide layout of required location of installation of flexible walkway or provide as unit price?	The walkway specifications were provided for the minimum manufacturers' requirements at all RTU Service Panels, Roof access and Roof ladders.
	Spec 075419-3.04 –G &H- Confirm polyiso base layer and tapered layer can be mechanically fastened and the cover board installed in insulation adhesive?	Only the base layer can be mechanically fastened over Metal Deck. All other locations are concrete and will require an adhesive attachment in accordance with the manufacturers specifications for the appropriate wind speeds in this region.
33	Spec 011000-1.03-G Add Alternate for Safety Rail System – Provide drawing calling out the location of the different types of Safety Rail system to be installed: PRS Wall Mount Guardrail, Weighted Base Guardrail System, PRS IBC Guardrail, Ladder to Roof Access Point, or Roof hatch Guardrail.	The safety rails are called out on the latest drawings - shown of the Phase 2 Roof Plan
34	Where can we keep a land & sea box on the grounds?	There are multiple locations. A final location will need to be coordainted with DOC.
35	How much propane / gas can we keep on the roof at one time? Does the gas / propane have to be brought back down to the ground at the end of the day?	Enough to fit in a flammable storage cabinet. It can be stored on the roof.
	Are we allowed to have razor knives on the roof / on the grounds?	Yes, they will be checked in with all other tools associated with the job. Just try not to bring them in and out the facility everyday. They can be stored in the locked job site box.
	Can we have multiple crews on site? Has the roof been tested for asbestos? Should we figure testing in	Yes. Sections/assemblies have been tested and no asbestos has been
	our bid. Will there be designated free parking for our roofing crew?	found. There is free parking on the DC General Campus. Dumpster
	Probably need about 4-5 parking spots for work vehicles. A few more for dumpsters depending on certain locations.	locations will need to be coordinated with DOC. Locations within the security fencing have been identified.
40	Can the dumpsters stay in place overnight during the tear off or do they have to be pulled off site at the end of each day.	Yes, the dumpsters can stay in place overnight.
41	Can we keep gang boxes on the roof with tools during the roofing project?	Yes, in the penthouse.
43	Can you send pictures of the roof overviews and details? Is there a layout for the paver walkways & the units where you want the pavers installed.	Please see condition assessment report. Pavers are only to be applied at acess points (Ladders, Doors and RTU Maintenance Panels, in accordance with the Manufacturers Specifications.
	How many plies of the SBS modified membrane is required for the hybrid roof?	The Hybrid Manufacturers' only require (1) ply
45	Can you clarify the exact assembly for the hot fluid applied roof? (Type 2 roof) (specs call for insulation, how thick does the insulation need to be?)	Detail 6 of R 1.8 is the assembly with 4" XPS
46	Can you the workers access facility with green card / or alien resident card? Do they workers have to be U.S. citizen?	Everyone will have to pass a background screening and present a valid government issused ID. That is the only requirement. Contractors must also be over 21 years of age.
	Drawing R1.4 – Dlt. 1 Shows Clear Coat on parapet cap. We did not find the material in the specifications. Can you identify where it is specified?	Detail 1 on R1.4 is to show the Sealant (caulking) application only. The Clear Coat was an option in Phase 1 and not to be included in Phases 2, 3 or 4
48	Drawing R1.4 - Dlt. 6 – Indicated .040" continuous length aluminum gutter with solid joints. The configuration and thickness of metal are not consistent with continuous length fabrication. There are references to solid joints at other locations as well. Please clarify the intent of gutter and joint formation.	The configuration of gutter shown is available to be rolled in .040" aluminum, but not at local supply houses. We will accept 14' - 20' lengths (that can be shop fabricated) with overlap and sealed joints. SMACNA gutters are tapered with their left hand end having a notched lip and being slightly smaller in size than its' right end. This allows for a 1 1/2" - 2" telescoping lap joint. Once in position, rivet the joint with 1/8" x 1/4" at 1" centers. Touch up the rivet heads with sealant and be sure to check the joint for any sealant voids.

49	Drawing R1.4 - Dlt. 8 Shows sill flashing that appears to go under and behind door frame, but removal of door frame is not indicated. Please clarify.	Contrator will be required to remove the door frame and make any such modifications to install the details as required.
50	Specification Section 03 0100 – Maintenance of Concrete. Specification section is provided, but no locations of repairs or allowance for this work are indicated. Is this section provided to define materials for unforeseen conditions? Please clarify	No concrete replacement is anticipated.
51	Specification Section 05 5213 – Pipe and Tube Railing Systems. Specification is provided, but these are not shown on the drawings. What is the intent of this specification section?	The manufacturers details are sufficient for bidding. The manufacturer will be required to provide submittals prior to commencement of the work. The areas of installation are shown on the Phase 2 Roof Plan,
52	Spec 072100-2.03-B.5 (base layer) states R-value (RSI-value) of minimum average R-25 Drawing R1.1 calls out Type 1 Roof to have a 1 ½" base layer Drawing R1.2 calls out Type 1 Roof to have a 1 ½" base layer If the tapered system plus crickets provides an R average of R=25 or more than does the base layer of 1 ½" still need to be provided?	The base layer is shown to provide a minimum. The taper configuration, layout and count is up to the roofing contractor, as long as the avgerage r-value is achieved, submitted and approved in the submittal process.
53	Spec 072100-2.03-B states Grade 2 Spec 072100-2.03-B.2 states Compressive strength to be 25 psi. Grade 2 polyiso is 20 psi Should the base layer be 20 psi or 25 psi?	Spec 072100-2.03-B STRIKE Grade 2, ADD: Type 2, Class 3 - 25 PSI. All layers should be in accordance with ASTM C1289 classification of polyiso board insulation; Type 2, Class 3 - 25 PSI
54	Please see attached roof plan with areas we would like to set up crane & dumpsters. If there are other locations that we can use that wasn't outlined we will use those also.	Dumpster locations will need to be coordinated with DOC

Exhibit 2 Central Detention Roofing dated 4/7/16

ROOFING REPLACEMENT



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CENTRAL DETENTION FACILITY

1901 D STREET, SE WASHINGTON DC

DISTRICT OF COLUMBIA DEPARTMENT OF CORRECTIONS

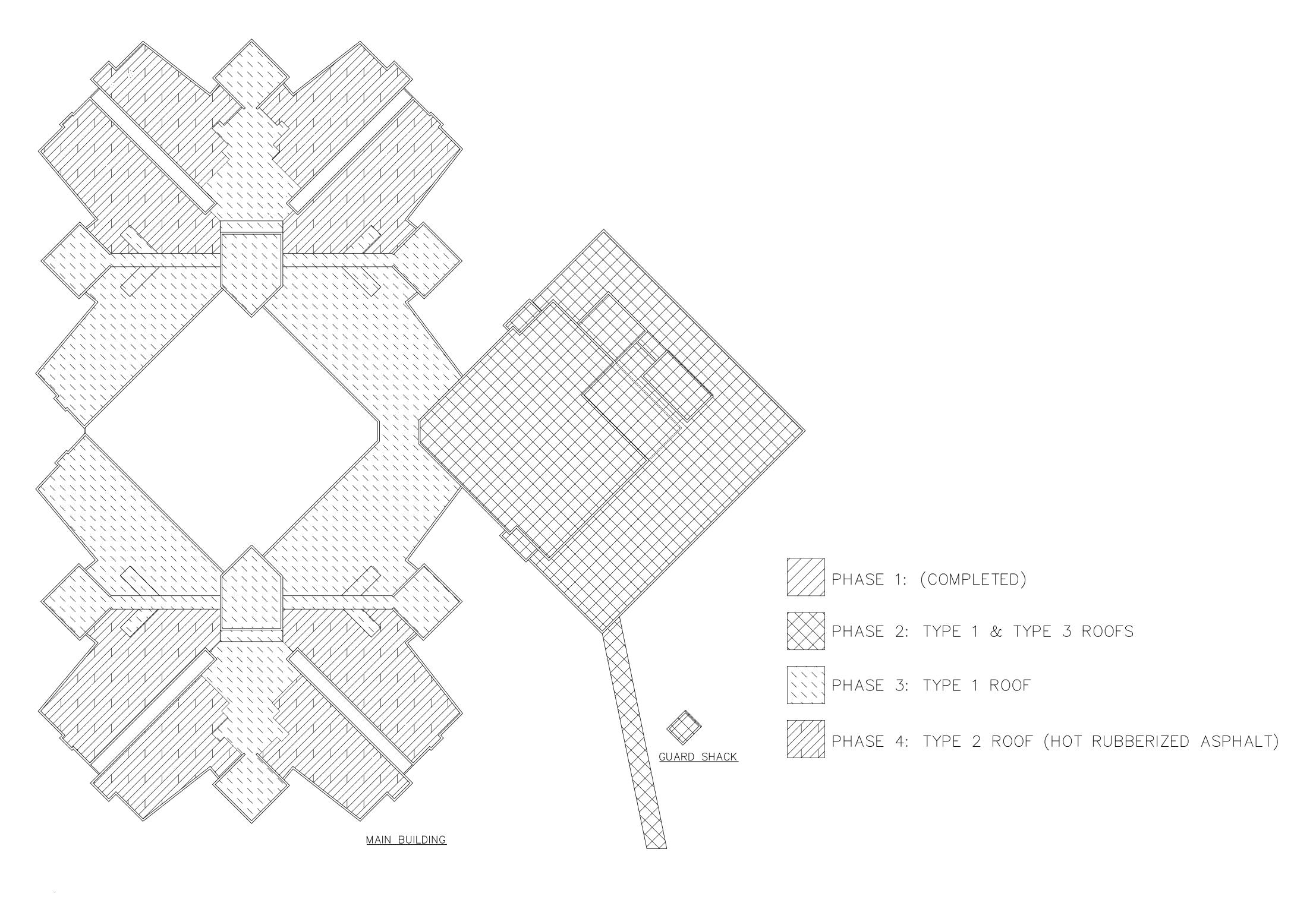


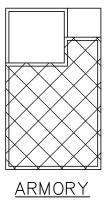
AERIAL SITE PHOTO

DRAWING INDEX

- C1.0 COVER PAGE
- R1.0 KEY ROOF PLAN PHASES AND ROOF TYPES
- R1.1 PHASE 2 ROOF PLANS
- R1.2 PHASE 3 ROOF PLANS
- R1.3 PHASE 4 ROOF PLANS
- R1.4 ROOF DETAILS TYPE 1 ROOF
- R1.5 ROOF / TYPICAL DETAILS TYPE 3 ROOF
- R1.6 ROOF DETAILS TYPE 2 ROOF
- R1.7 TYPICAL ROOF DETAILS TYPE 1 ROOF
- R1.8 TYPICAL ROOF DETAILS TYPE 2 ROOF

COVER PAGE





KEY ROOF PLAN



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PROJECT

ROOFING REPLACEMENT

Central Detention Facility 1901 D Street, SE Washington DC

District of Columbia Department of Corrections

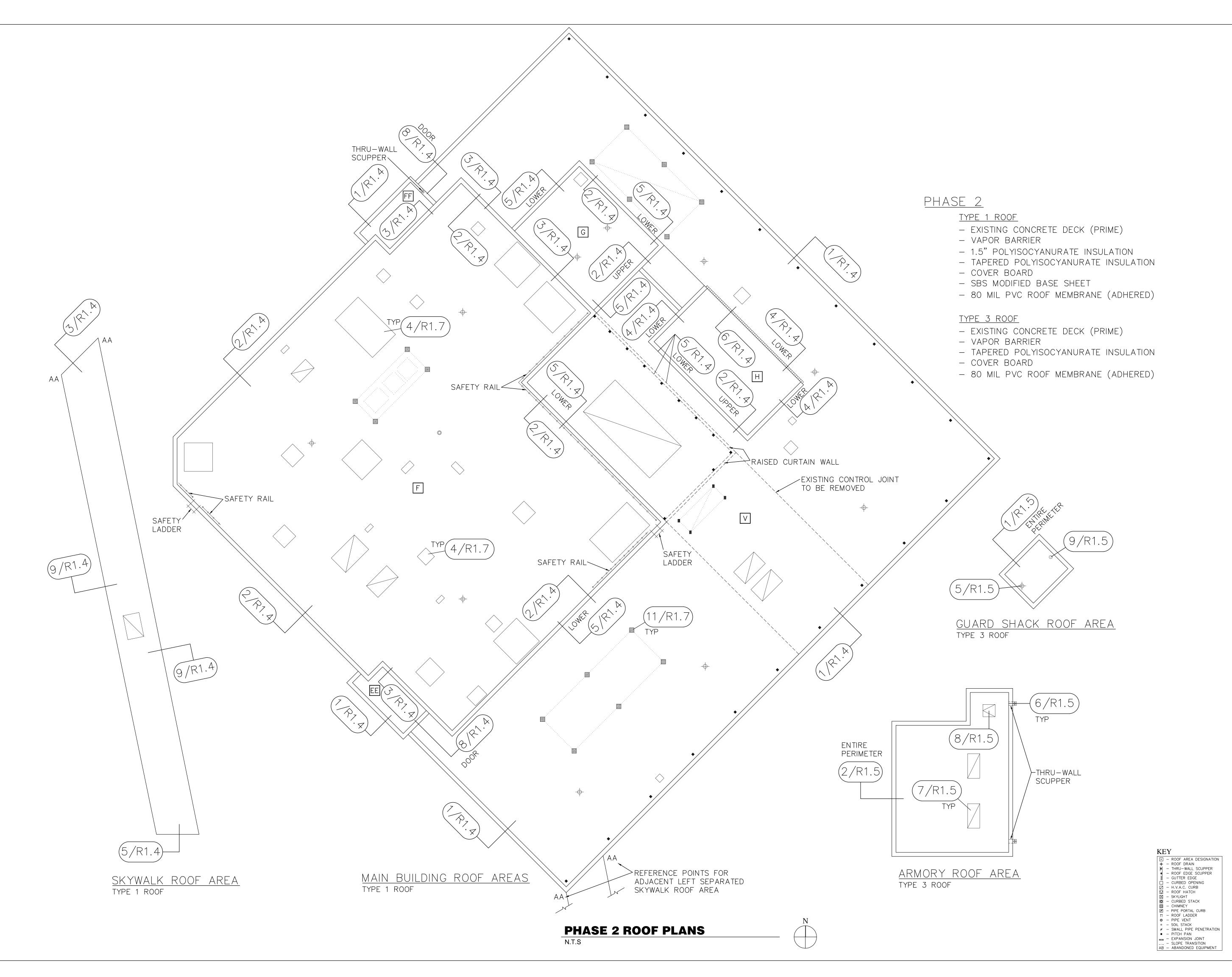
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NUMBER DATE

COMMENTS ___

• DRAWING TITLE

KEY ROOF PLAN PHASES AND ROOF TYPES

SHEET NUMBER



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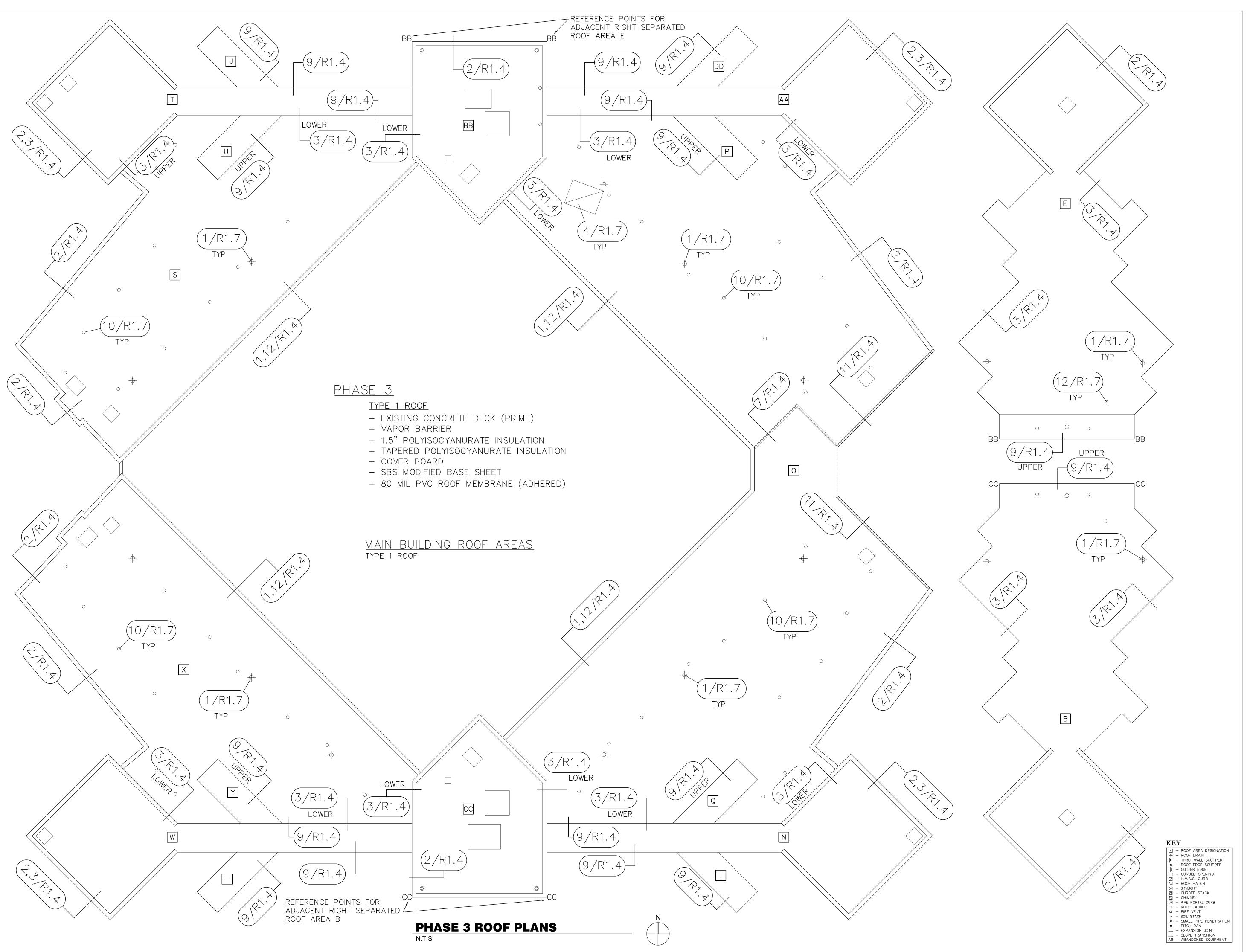
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PHASE 2 ROOF PLANS

SHEET NUMBER



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DRAWING DATES

NUMBER DATE

COMMENTS

Output

DRAWING DATES

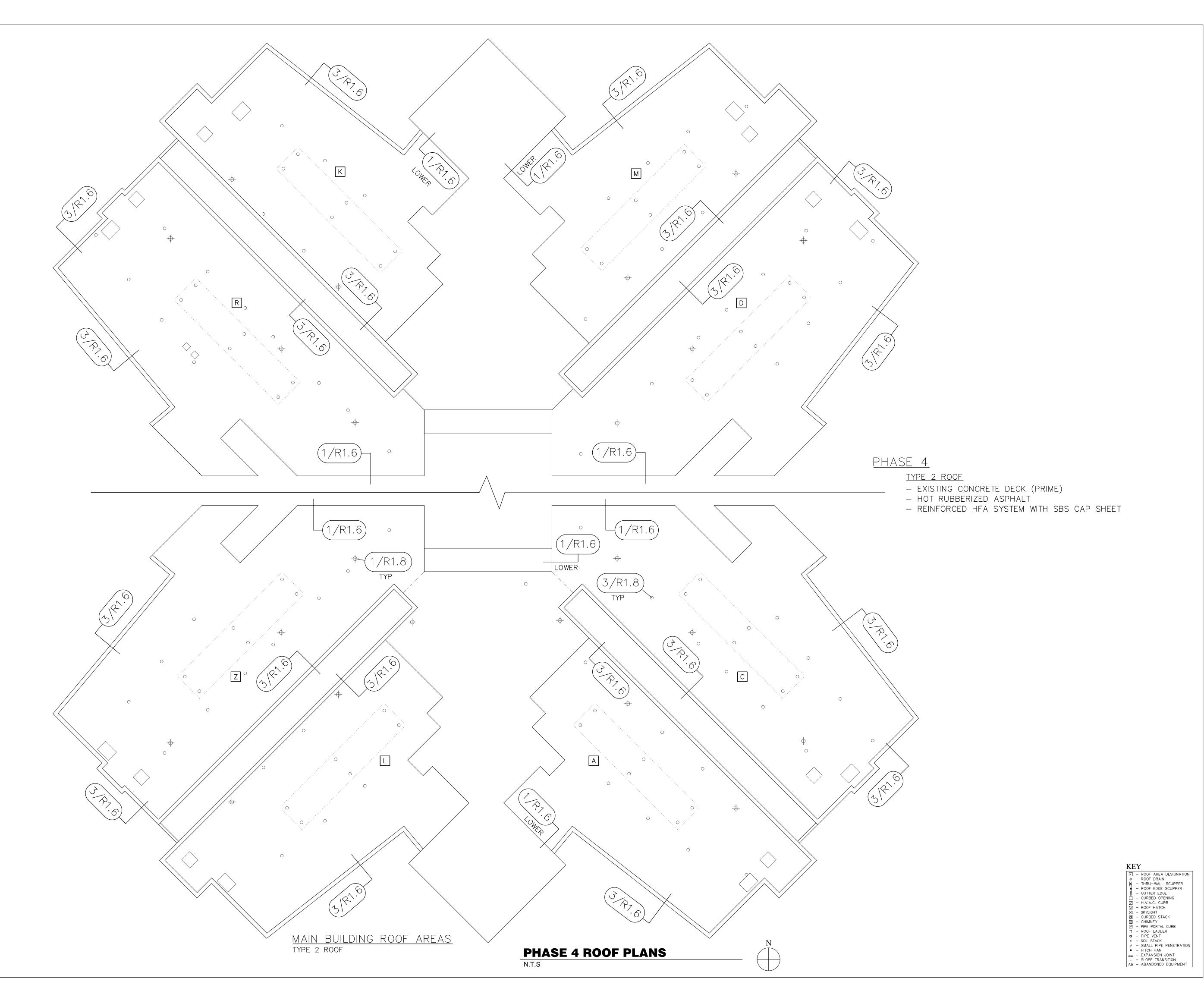
COMMENTS

PHASE 3
ROOF PLANS

SHEET NUMBER

R1.2

Actual Size to read at scale



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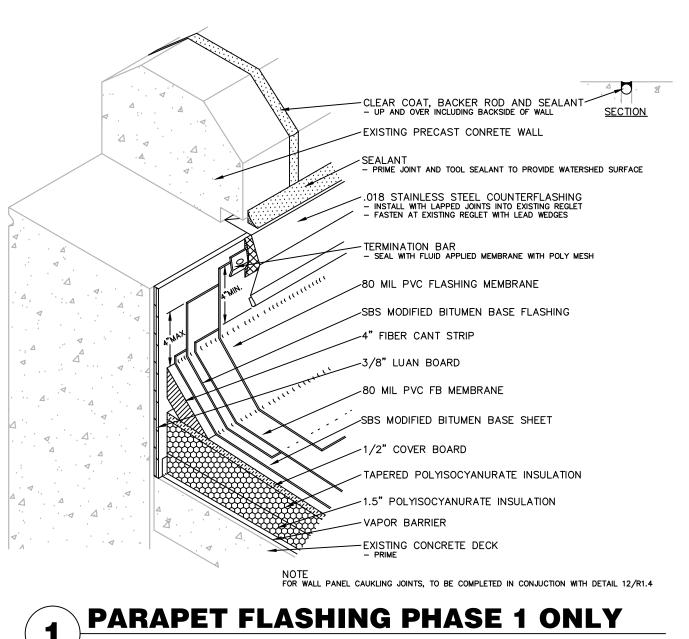
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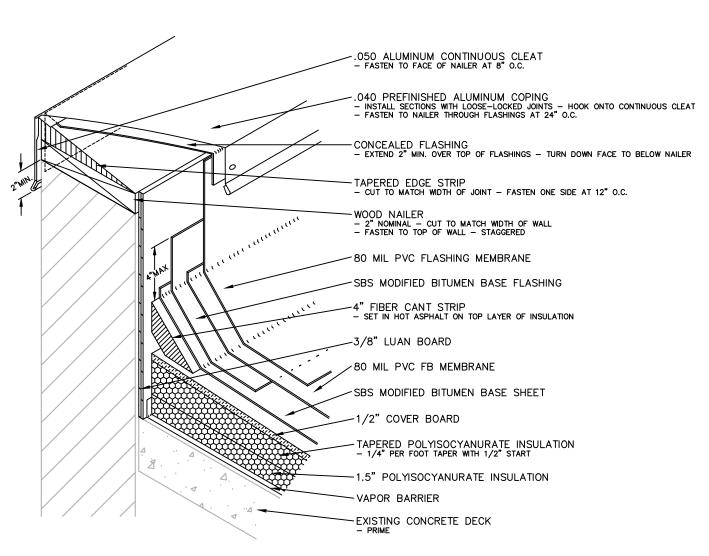
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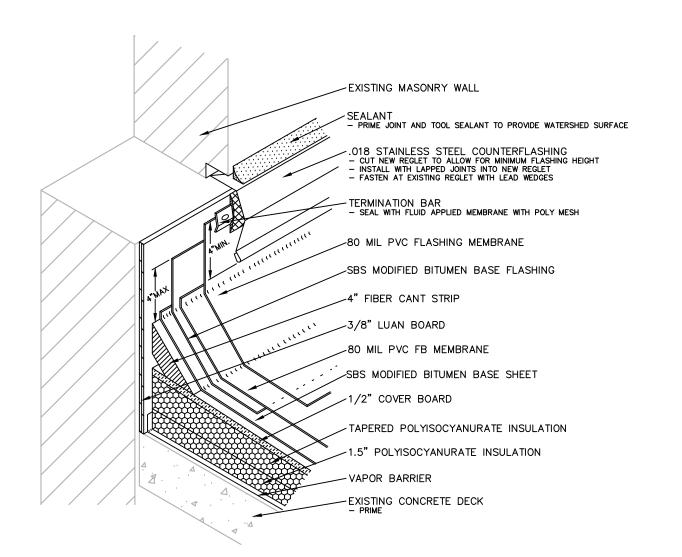
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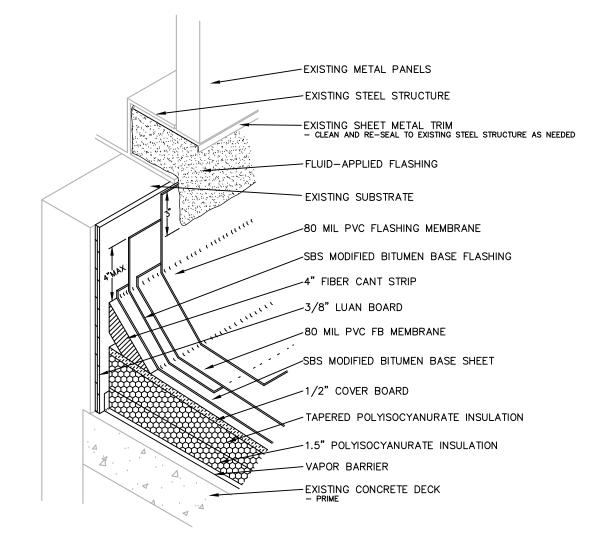
PHASE 4 ROOF PLANS

SHEET NUMBER





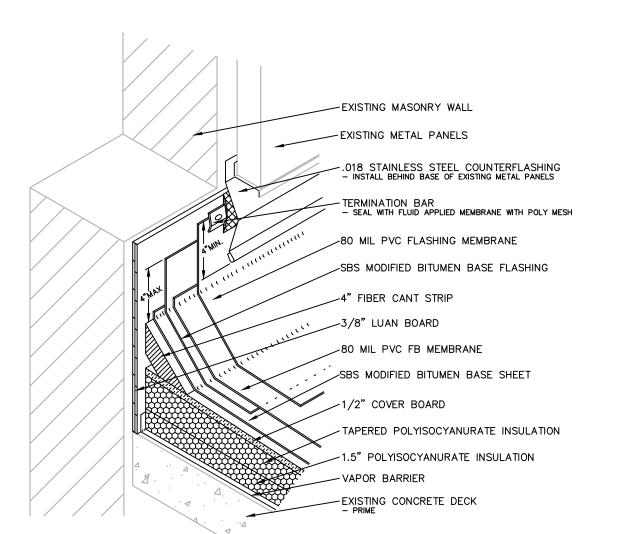


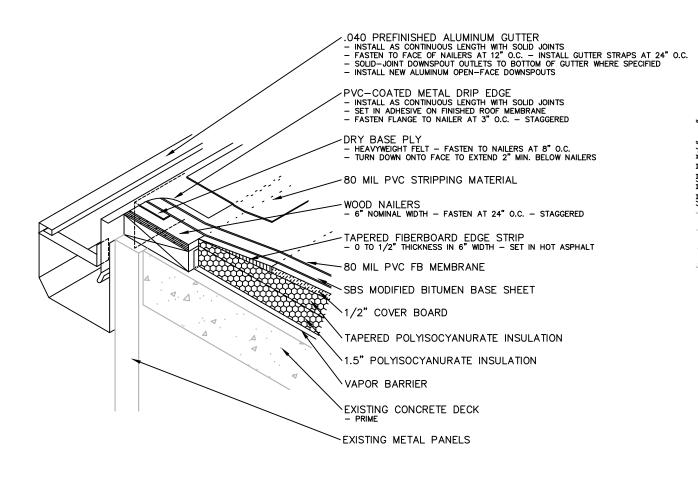












.050 ALUMINUM CONTINUOUS CLEAT - FASTEN TO BLOCKING THROUGH FLASHINGS AT 8" O.C.

CONCEALED FLASHING - EXTEND 2" MIN. OVER ROOF FLASHINGS ON EACH SIDE

-UNFACED FIBERGLASS BATT INSULATION

-SBS MODIFIED BITUMEN BASE FLASHING

-SBS MODIFIED BITUMEN BASE SHEET

TAPERED POLYISOCYANURATE INSULATION

-1.5" POLYISOCYANURATE INSULATION

—80 MIL PVC FLASHING MEMBRANE

-4" FIBER CANT STRIP

——1/2" COVER BOARD

-80 MIL PVC FB MEMBRANE

EXISTING CONCRETE DECK

BEVELED CEDAR SIDING

- CUT TO MATCH WIDTH OF JOINT - FASTEN ONE SIDE AT 12" O.C.

.040 PREFINISHED ALUMINUM STEEL JOINT COVER

- INSTALL SECTIONS WITH LOOSE-LOCKED JOINTS - HOOK ONTO CONTINUOUS CLEAT

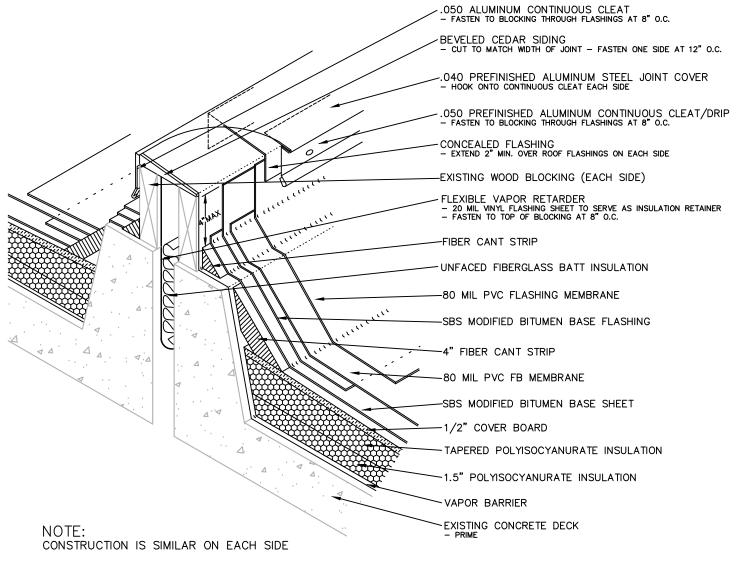
- FASTEN TO BLOCKING THROUGH FLASHINGS AT 24" O.C.

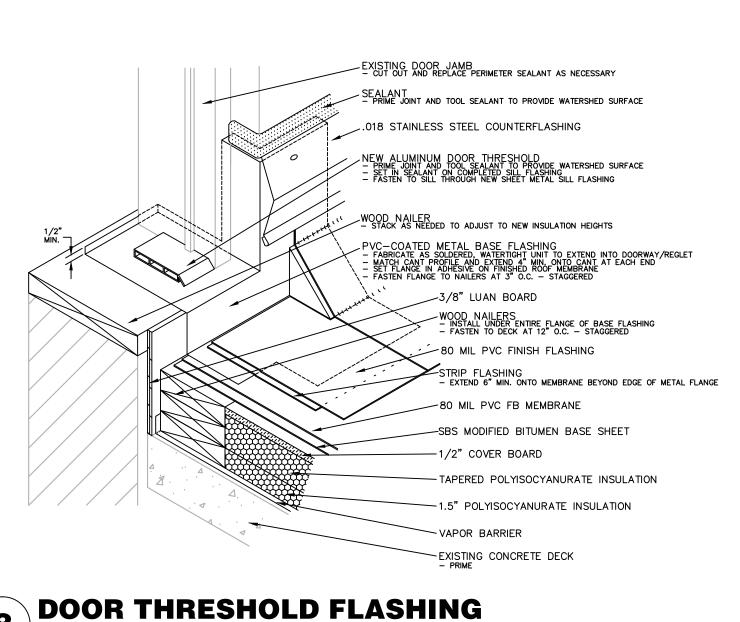
-WOOD BLOCKING (EACH SIDE)
2 LAYERS OF 3/4" PLYWOOD - AS NEEDED TO PROVIDE MINIMUM FLASHING HEIGHT
- FASTEN DECK WITH 4" LONG 1/8"x4"x8" BENT STEEL PLATES ON 48" CENTERS

FLEXIBLE VAPOR RETARDER

- 20 MIL VINYL FLASHING SHEET TO SERVE AS INSULATION RETAINER

- FASTEN TO TOP OF BLOCKING AT 8" O.C.





SBS MODIFIED BITUMEN BASE SHEET

TAPERED POLYISOCYANURATE INSULATION

∠1.5" POLYISOCYANURATE INSULATION

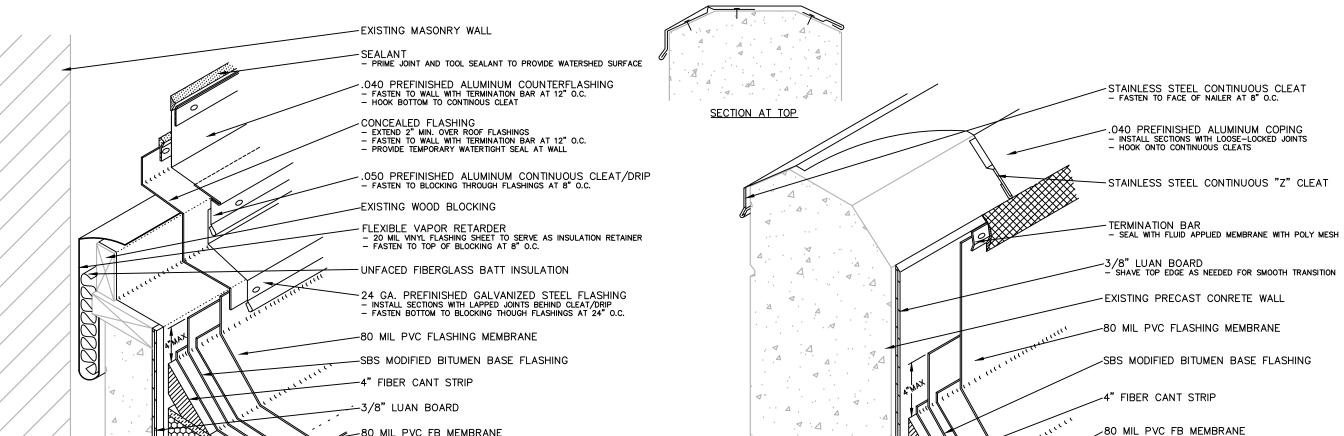
√1/2" COVER BOARD

- EXISTING CONCRETE DECK

WALL FLASHING







80 MIL PVC FB MEMBRANE

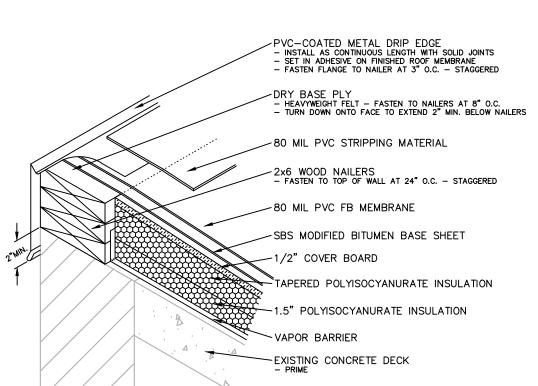
___1/2" COVER BOARD

VAPOR BARRIER

----SBS MODIFIED BITUMEN BASE SHEET

TAPERED POLYISOCYANURATE INSULATION

-1.5" POLYISOCYANURATE INSULATION

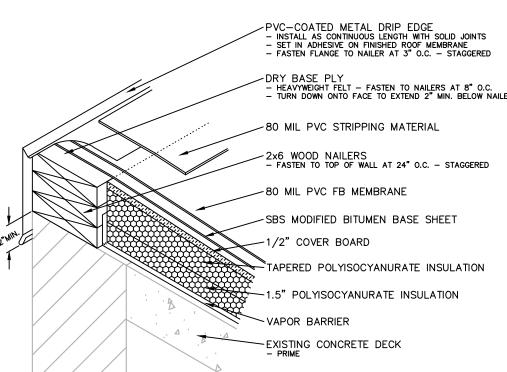




CONSTRUCTION IS SIMILAR ON EACH SIDE









DRAWING DATES COMMENTS

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ROOFING REPLACEMENT

Department of Corrections

Central Detention Facility

District of Columbia

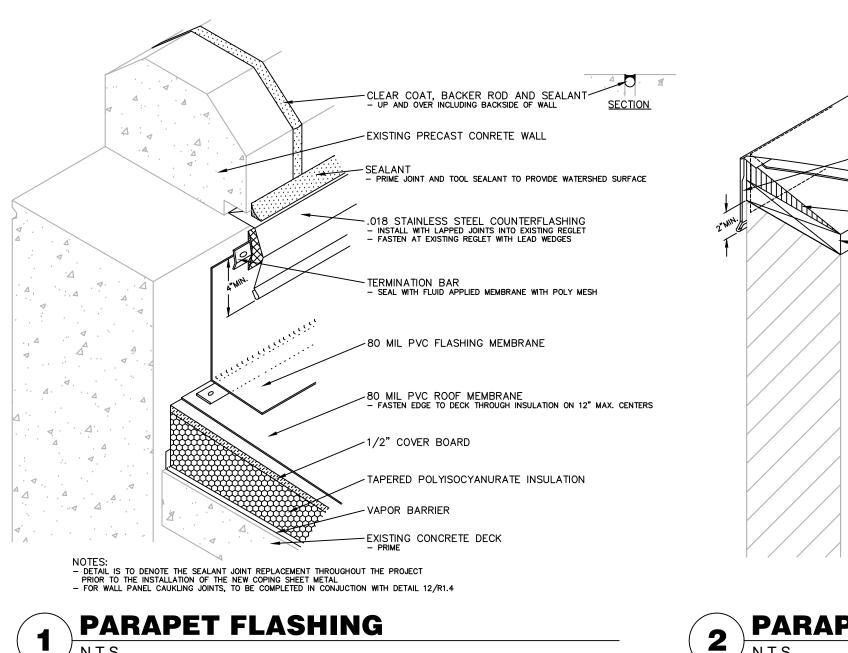
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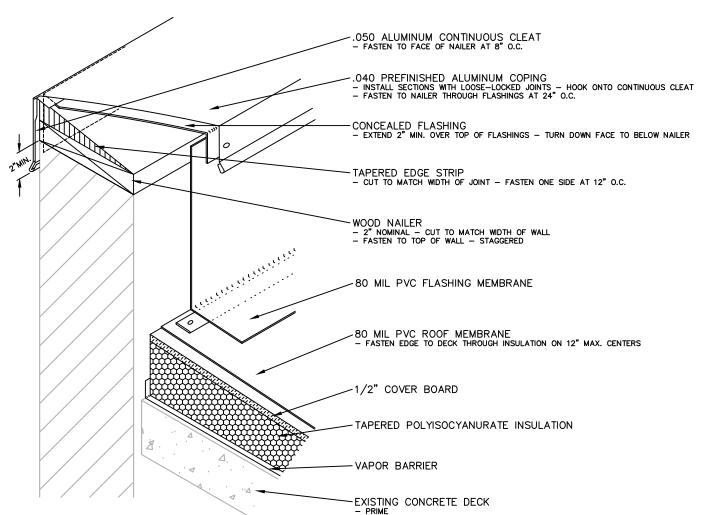
1901 D Street, SE

Washington DC

DRAWING TITLE **ROOF DETAILS -TYPE 1 ROOF**

SHEET NUMBER





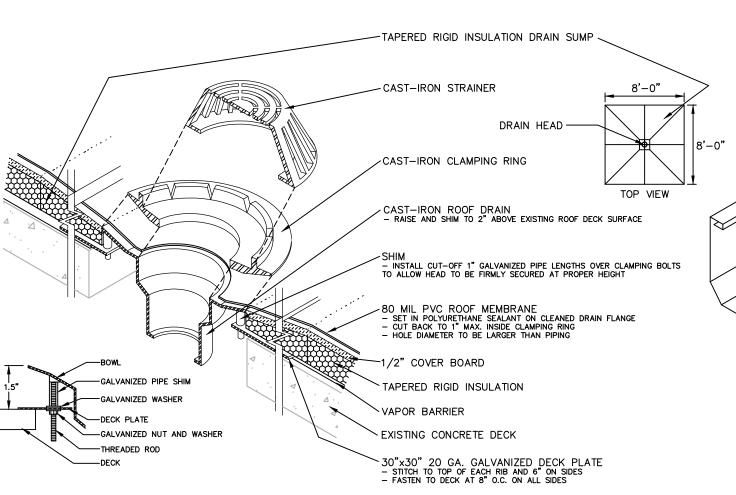
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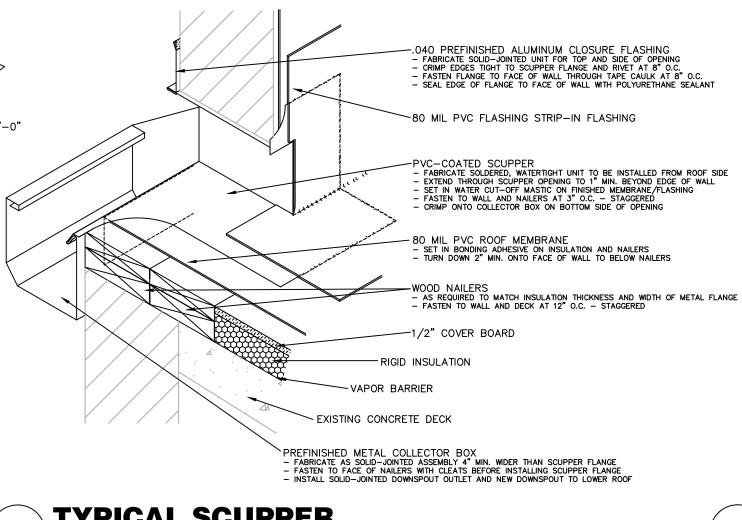
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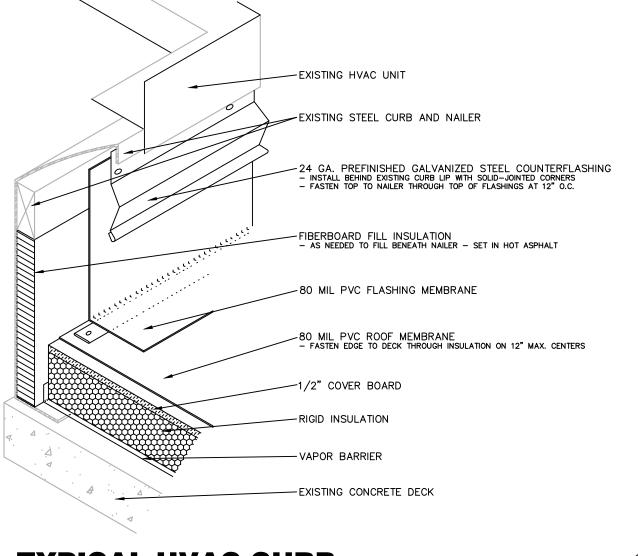
N.T.S

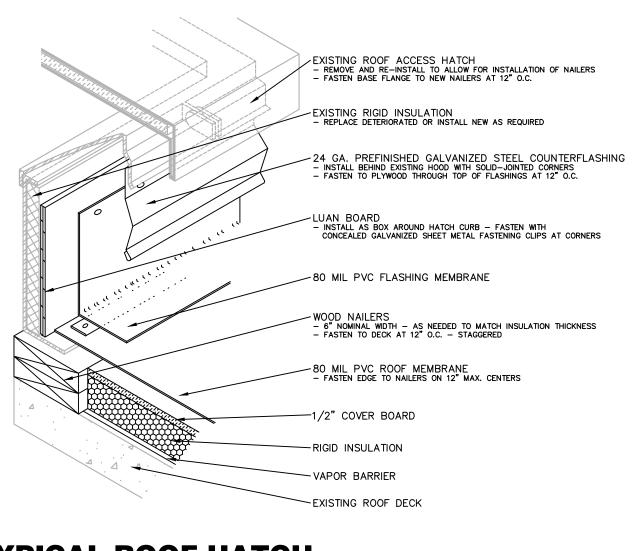
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N.T.S









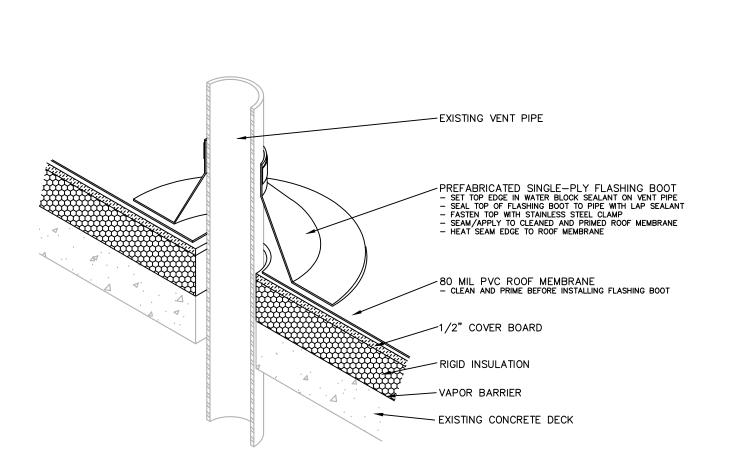
5 TYPICAL ROOF DRAIN

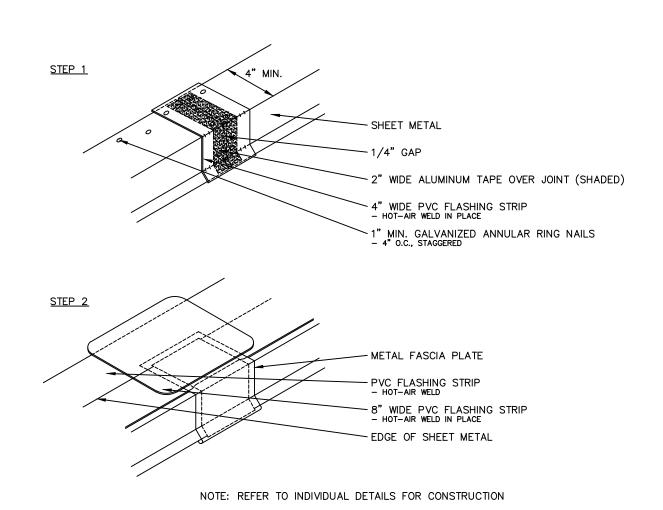
N.T.S

6 TYPICAL SCUPPER
N.T.S

7 TYPICAL HVAC CURB

8 TYPICAL ROOF HATCH





9 TYPICAL VENT PIPE

N.T.S

10 TYPICAL METAL JOINT FABRICATION

NOT USED
N.T.S

12 NOT USED
N.T.S

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PROJECT

ROOFING REPLACEMENT

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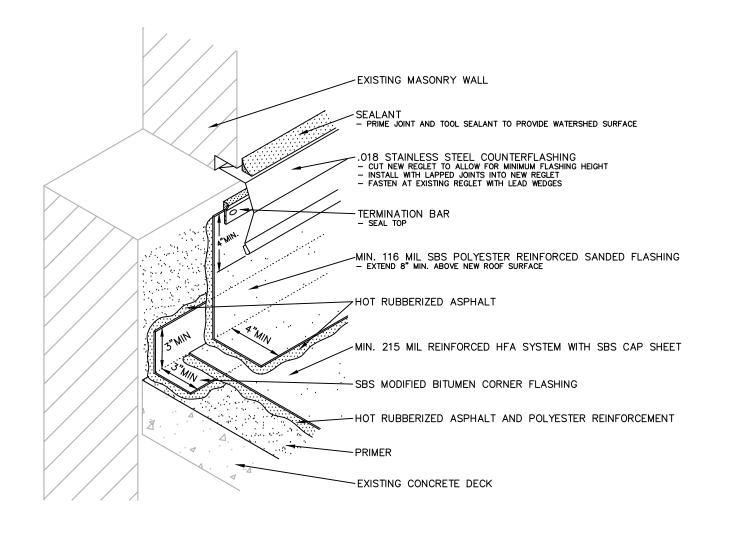
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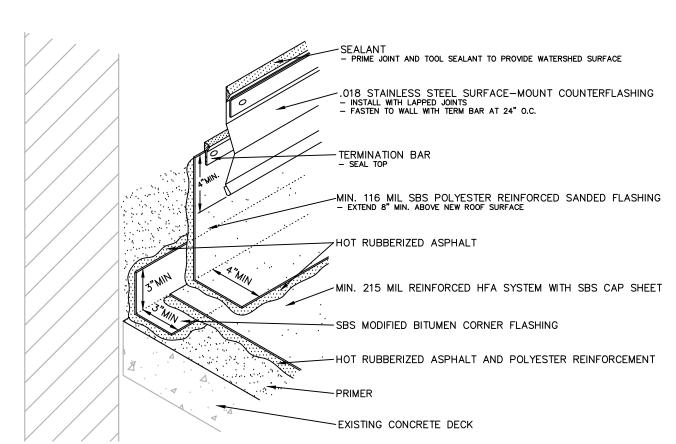
COMMENTS

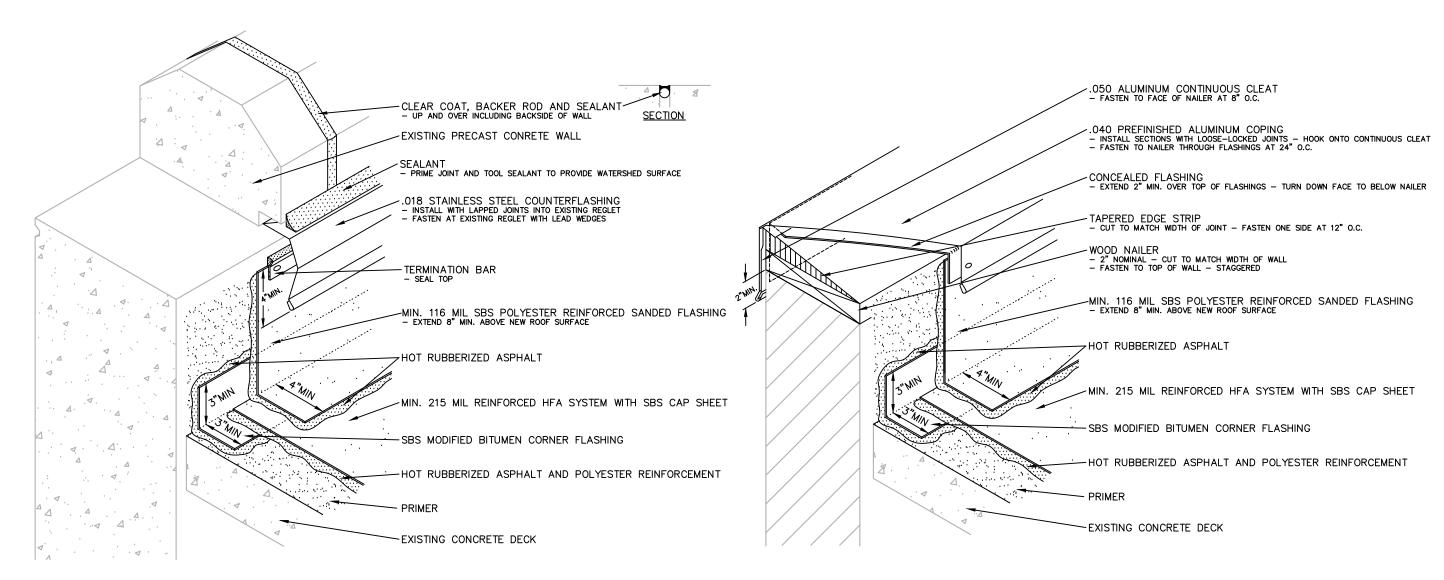
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ROOF / TYPICAL DETAILS -TYPE 3 ROOF

SHEET NUMBER







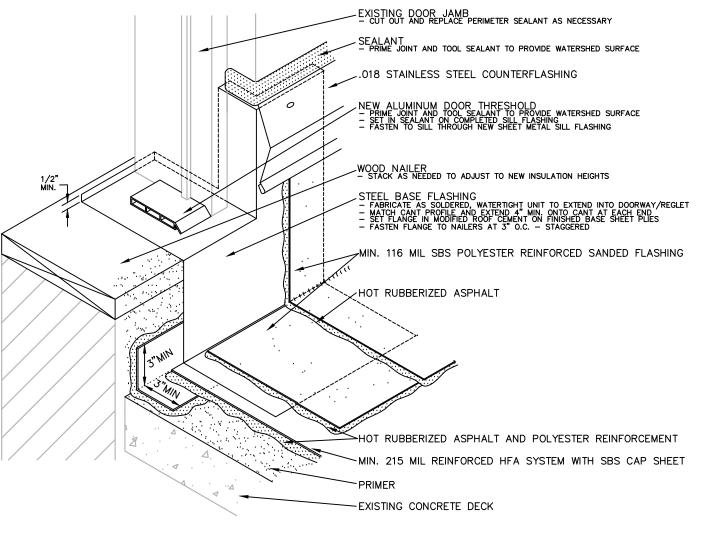
1 WALL FLASHING

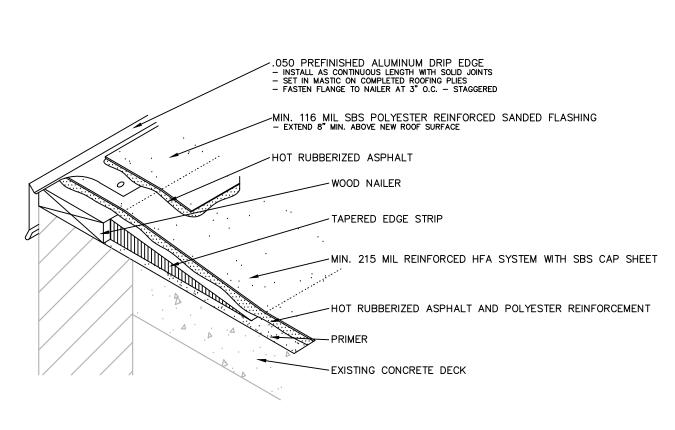
WALL FLASHING
N.T.S

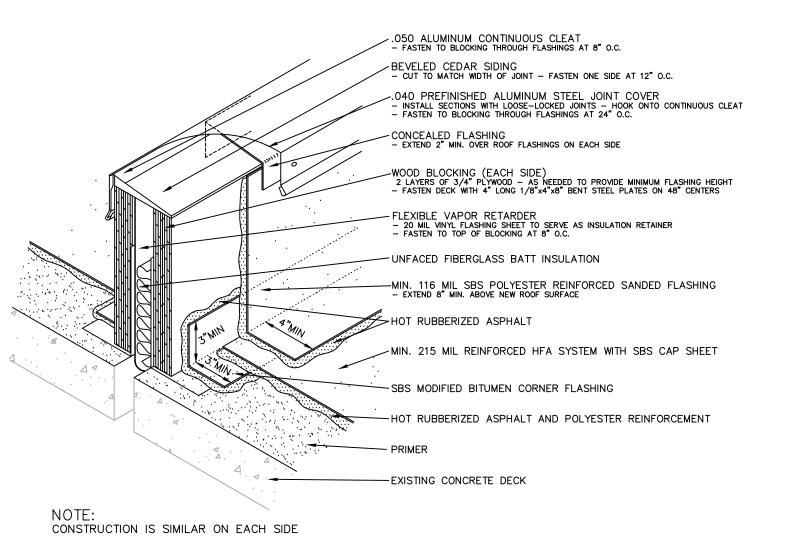
3 PARAPET FLASHING

PARAPET FLASHING

N.T.S







5 DOOR THRESHOLD FLASHING
N.T.S

6 ROOF EDGE FLASHING

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

NOT USED
N.T.S

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, M D 21114 TEL: 410-881-0221

PROJECT

ROOFING REPLACEMENT

Central Detention Facility 1901 D Street, SE Washington DC

District of Columbia
Department of Corrections

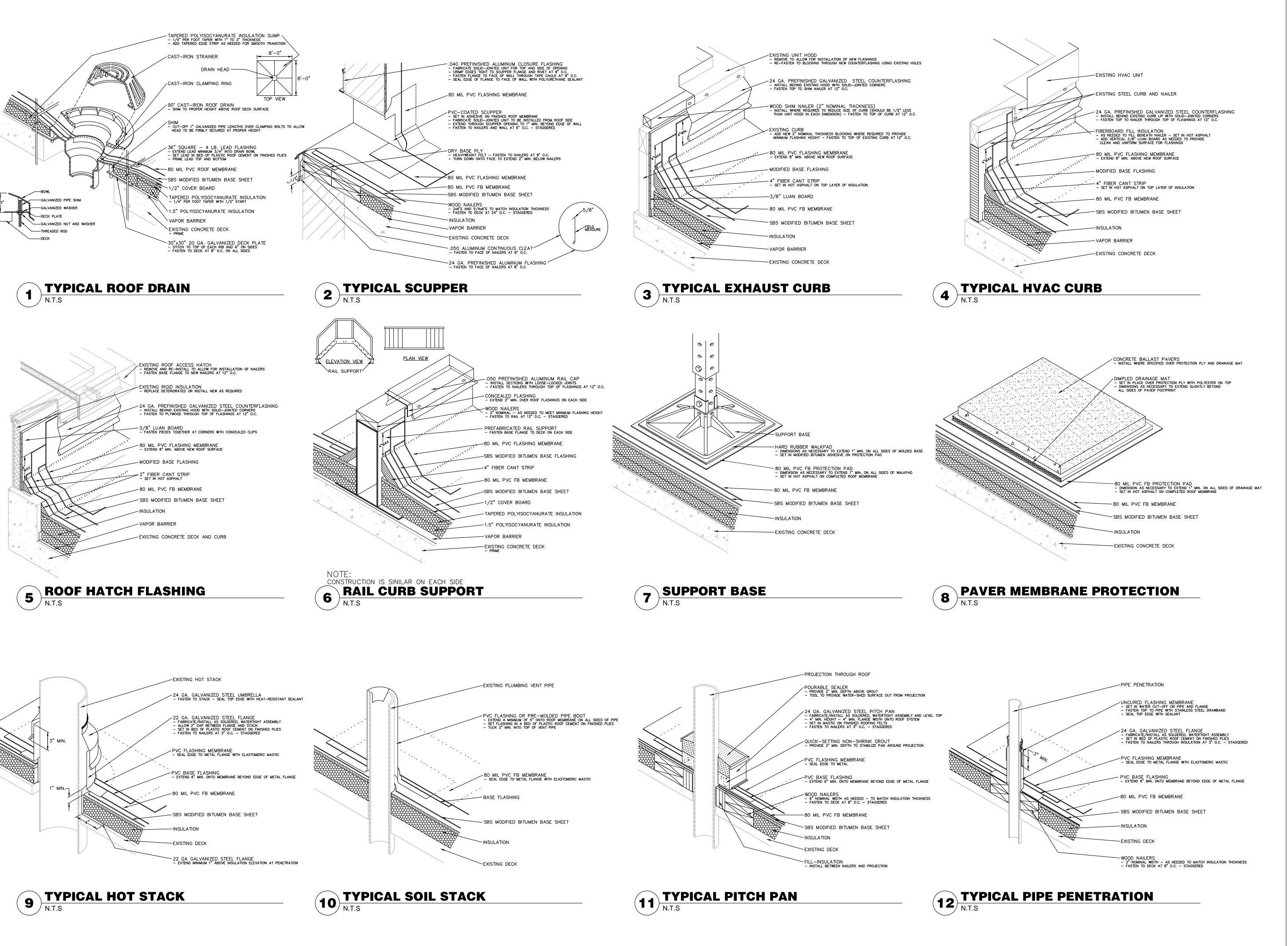
NUMBER DATE

COMMENTS

DRAWING TITLE

ROOF DETAILS -TYPE 2 ROOF

SHEET NUMBER



BLUEFIN LLC CORPORATE OFFICE
6312 S. Fiddlers Green Circle Suite 100E
Greenwood Village, CO 80111
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MID -ATLANTIC OFFICE
2134 Espey Court Suite 14
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PROJECT

ROOFING REPLACEMENT

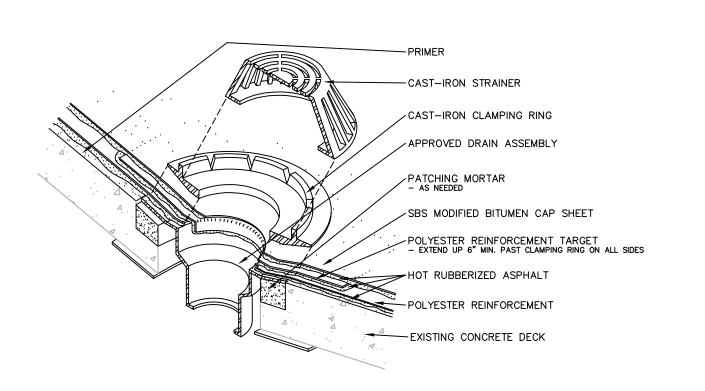
Central Detention Facility 1901 D Street, SE Washington DC

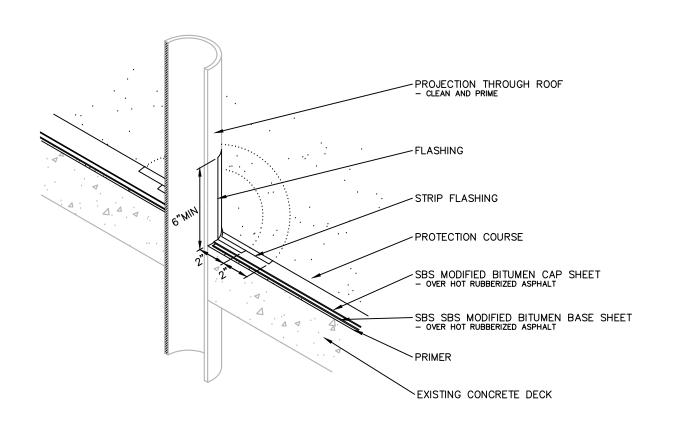
District of Columbia Department of Corrections

TYPICAL ROOF DETAILS -TYPE 1 ROOF

SHEET NUMBER

DRAWING TITLE





ROOF DRAIN

N.T.S

2 DETAIL
N.T.S

3 PIPE PENETRATION N.T.S

4 NOT USED

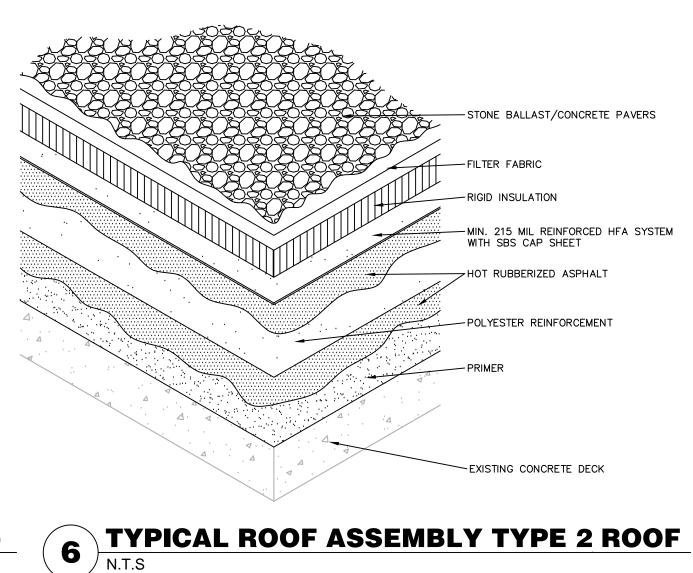
MIN. 215 MIL REINFORCED HFA SYSTEM WITH SBS CAP SHEET

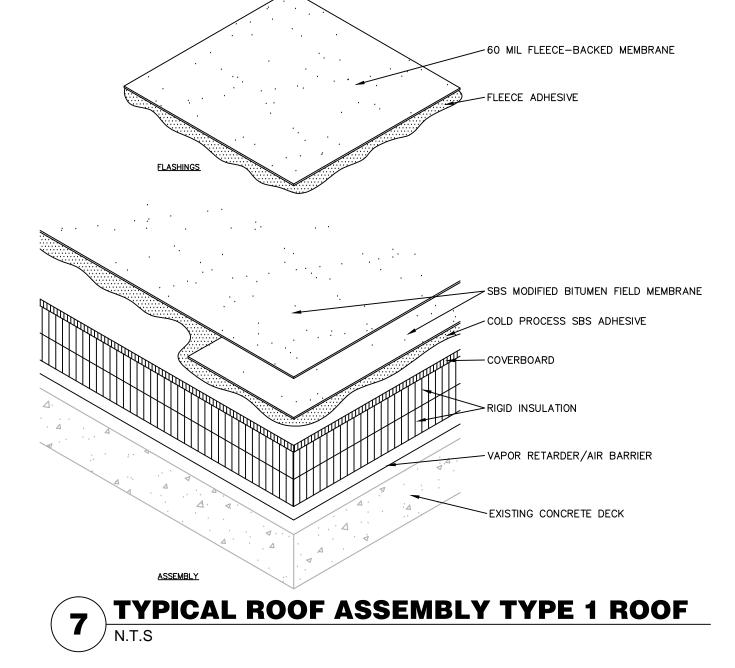
HOT RUBBERIZED ASPHALT

POLYESTER REINFORCEMENT

PRIMER

EXISTING CONCRETE DECK







5 TYPICAL ROOF ASSEMBLY TYPE 2 ROOF (BASE)

FILL CRACK W/NON-SHRINK GROUT OR APPROVED SEALANT

- 1/16" (2mm) TO 1/8" (3mm) CRACK OR NON-MOVING JOINT

-CONCRETE DECK (PRIME AS REQUIRED)

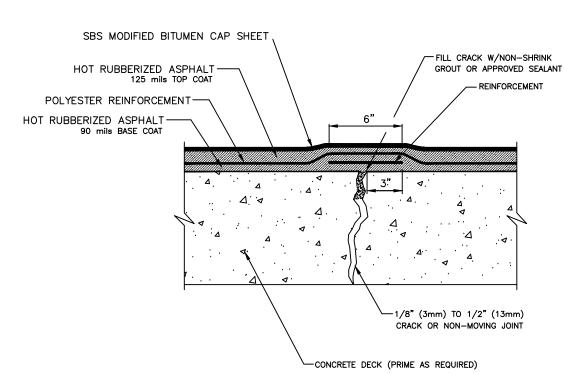
SBS MODIFIED BITUMEN CAP SHEET

HOT RUBBERIZED ASPHALT

125 mils TOP COAT

SBS MODIFIED BITUMEN CAP SHEET

FILL CRACK W/NON-SHRINK
GROUT OR APPROVED SEALANT



9 NON-MOVING JOINT UP TO 1/8"

SBS MODIFIED BITUMEN CAP SHEET

HOT RUBBERIZED ASPHALT — 125 mils TOP COAT

POLYESTER REINFORCEMENT-

HOT RUBBERIZED ASPHALT —— 90 mils BASE COAT

10 NON-MOVING JOINT UP TO 1/2"

NOT USED
N.T.S

NOT USED
N.T.S

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Greenwood Village, CO 80111
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MID -ATLANTIC OFFICE 2134 Espey Court Suite 14 Crofton, M D 21114 TEL: 410-881-0221

PROJECT

ROOFING REPLACEMENT

Central Detention Facility
1901 D Street, SE
Washington DC

District of Columbia

Department of Corrections

NUMBER DATE

COMMENTS

•

DRAWING TITLE

TYPICAL ROOF DETAILS -TYPE 2 ROOF

SHEETNUMBER

Exhibit 3 Condition Assessment Report



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

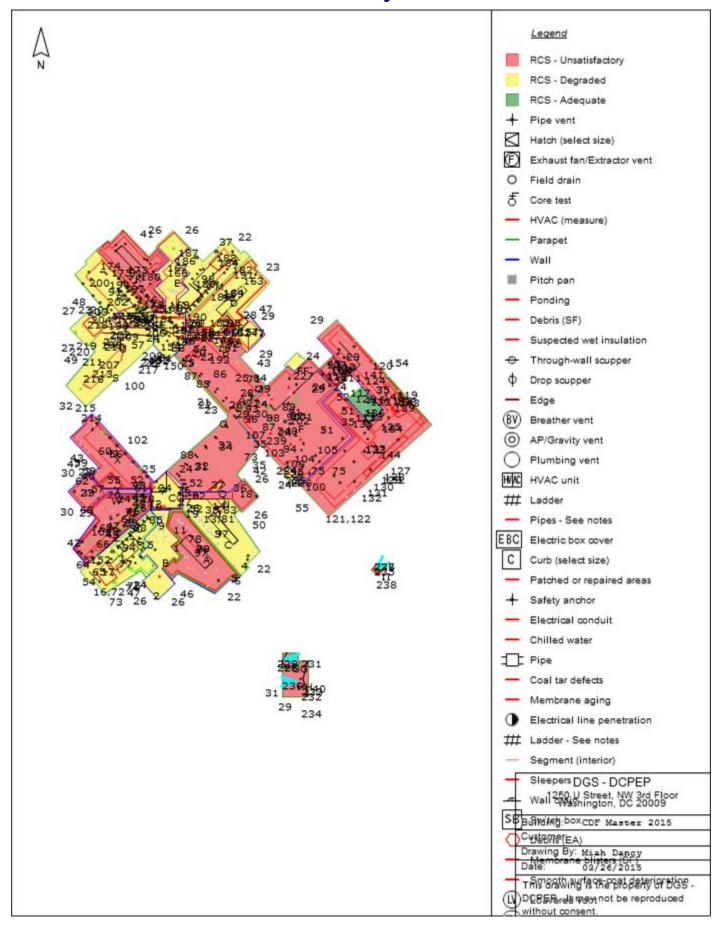
Kevin KVersak

kversak@bluefinllc.com

Building Contact Matt Burress

DGS - DCPEP Page 2

Section Key Plan



DGS - DCPEP

Section Information

Section ID: A - A

Area: 3,855 SF

Roof Type: Built-up membrane

Layers:
• Surface:

o Surface: Aggregate

Color: TanMembrane:

Adhesive: Asphalt# of plies: 3-4

Type of ply: Fiberglass

• Insulation:

o Type: Perlite cover board

Thickness: 1" # of layers: 1 Tapered: No Slope: 0

o Attachment: Fully adhered

• Insulation:

o Type: Polyisocyanurate (Poly ISO) foam

Thickness: 1.50" - 5.5"

of layers: 1Tapered: YesSlope: 1/8

o 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:

o Type: Polyisocyanurate (Poly ISO) foam

o Thickness: 1.50" - 5.5"

of layers: 1Tapered: YesSlope: 1/16

o Attachment: Asphalt

Deck:

o Type: Precast concrete

o Deck slope: 0

• Insulation:

o Type: Perlite cover board

Thickness: 1"# of layers: 1Tapered: NoSlope: 0

o Attachment: Asphalt

Roof Condition Score: 65 (Degraded)

Section ID: B - B

Area: 2,124 SF

Roof Type: Built-up membrane

Layers:
• Surface:

o Surface: Aggregate

o 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:

o Type: Polyisocyanurate (Poly ISO) foam

o Thickness: 1.50" - 5.5"

of layers: 1Tapered: YesSlope: 1/16

o Attachment: Asphalt

Deck:

o Type: Precast concrete

o Deck slope: 0

• Insulation:

o Type: Perlite cover board

Thickness: 1"# of layers: 1Tapered: NoSlope: 0

o Attachment: Asphalt

Roof Condition Score: 63 (Degraded)

Section ID: C - C

Area: 3,419 SF

Roof Type: Built-up membrane

Layers:
• Surface:

o Surface: Aggregate

o 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

o # of plies: 4

o Type of ply: Fiberglass

• Insulation:

o Type: Polyisocyanurate (Poly ISO) foam

o Thickness: 1.50" - 5.5"

of layers: 1Tapered: YesSlope: 1/16

o Attachment: Asphalt

Deck:

o Type: Precast concrete

o Deck slope: 0

• Insulation:

o 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" o # of layers: 1

Tapered: YesAttachment: Asn

Attachment: Asphalt

• Membrane:

Adhesive: Asphalt# of plies: 3-4Type of ply: Felt

Insulation:

Type: Perlite cover board

Thickness: 0.75"# of layers: 1Tapered: No

o Attachment: Fully adhered

o 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)







DGS - DCPEP

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:

o Surface: Aggregate

o Color: Tan Membrane:

> o Adhesive: Asphalt o # of plies: 3-4 o Type of ply: Felt



Section ID: E - E

Area: 2,227 SF

Roof Type: Built-up membrane

Layers: • Membrane:

> o Adhesive: Asphalt o # of plies: 3 -4 o 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:

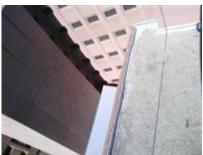
Roof Condition Score: 61 (Degraded)

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:

o Surface: Aggregate

Color: TanMembrane:

Adhesive: Asphalt# of plies: 3-4

Type of ply: Fiberglass

• Insulation:

Type: Perlite cover board

Thickness: 1" # of layers: 1 Tapered: No Slope: 0

o Attachment: Fully adhered

• Insulation:

o Type: Polyisocyanurate (Poly ISO) foam

Thickness: 1.50"# of layers: 1Tapered: YesSlope: 1/8

o 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:

o Surface: Aggregate

Color: TanMembrane:

Adhesive: Asphalt# of plies: 3-4

Type of ply: Fiberglass

• Insulation:

o Type: Perlite cover board

Thickness: 1"# of layers: 1Tapered: YesSlope: no

o Attachment: Fully adhered

• Insulation:

o Type: Polyisocyanurate (Poly ISO) foam

Thickness: 1.50" # of layers: 1 Tapered: Yes Slope: 1/8

o 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)

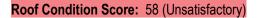
Layers:

• Membrane:

∘ Type: EPDM

Attachment: Fully adhered

Thickness: .045 Reinforced: No Fire rated: No Color: Black



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)



DGS - DCPEP

Section ID: H - H

Area: SF

Roof Type: Thermoset (Single ply - rubber)

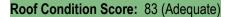
Layers:
• Surface:

Surface: BlackMembrane:Type: EPDM

o Attachment: Mechanically fastened

Thickness: .045 Reinforced: No Fire rated: Unknown

o Color: Black



Section ID: HH - HH

Area: 995 SF

Roof Type: Thermoset (Single ply - rubber)

Layers:

• Membrane:

• Type: EPDM

o Attachment: Fully adhered

Thickness: .045 Reinforced: No Fire rated: No Color: Black

• Insulation:

Type: Fiberboard Thickness: 0.50" # of layers: 1 Tapered: No

o Attachment: Mechanical

Slope: 0Insulation:

o Type: Polyisocyanurate (Poly ISO) foam

Thickness: 2" - 4.5" # of layers: 2

Tapered: yes

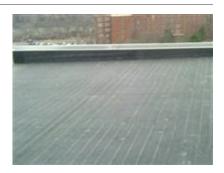
Attachment: Mechanical

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: |-|

Area: 137 SF

Roof Type: Built-up membrane

Layers:
• Surface:

o Surface: Aggregate

Color: TanMembrane:

Roof Condition Score: 66 (Degraded)

Section ID: I - I (Photo #2)

Area: 137 SF

Roof Condition Score: 66 (Degraded)





Section ID: || - ||

Area: 119 SF

Roof Type: Buildt up roof

Layers:
• Membrane:

Application: Hot mopType: Multi-ply

Base sheet type: Asphalt

• Membrane:

Adhesive: Asphalt# of plies: 3 -4Type of ply: Asphalt

• Insulation:

Type: Perlite cover board

Thickness: 4" # of layers: 1 Tapered: No

o Attachment: Fully adhered

Slope: 0Deck:

Deck.

 $\circ \ \, \text{Type: Precast concrete}$

O 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:

o Surface: Aggregate

Color: TanMembrane:

Roof Condition Score: 75 (Degraded)



Section ID: K - K

Area: 3,241 SF

Roof Type: Built-up membrane

Layers:
• Surface:

o Surface: Aggregate

Color: TanMembrane:

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:

o Surface: Aggregate

Color: TanMembrane:

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: 0 - 0

Area: 9,506 SF

Roof Type: Built-up membrane

Layers:
• Surface:

o Surface: Aggregate

Color: TanMembrane:

Adhesive: Asphalt# of plies: 3-4

Type of ply: Fiberglass

• Insulation:

Type: Perlite cover board

Thickness: 1" # of layers: 1 Tapered: No Slope: 0

o Attachment: Fully adhered

• Insulation:

o Type: Polyisocyanurate (Poly ISO) foam

Thickness: 1.50" - 5.5"
of layers: multiple
Tapered: Yes
Slope: 1/8

o Attachment: Spot adhered

Deck:

o Type: Precast concrete

o 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:

o Surface: Aggregate

Color: TanMembrane:

Adhesive: Asphalt# of plies: 3-4

Type of ply: Fiberglass

• Insulation:

o Type: Perlite cover board

Thickness: 1" # of layers: 1 Tapered: No Slope: 0

o Attachment: Fully adhered

• Insulation:

o Type: Polyisocyanurate (Poly ISO) foam

o Thickness: 1.50" - 5.5"

of layers: 1Tapered: YesSlope: 1/8

o Attachment: Spot adhered

• Deck:

Type: Precast concrete

o Deck slope: 0

Roof Condition Score: 67 (Degraded)



Section ID: Q - Q

Area: 118 SF

Roof Type: Built-up membrane

Layers: • Surface:

o Surface: Aggregate

o Color: Tan Membrane:

> Adhesive: Asphalt o # of plies: 3-4

Type of ply: Fiberglass

• Insulation:

Type: Perlite cover board

o Thickness: 1" o # of layers: 1 o Tapered: No o Slope: 0

o Attachment: Fully adhered

Insulation:

Type: Polyisocyanurate (Poly ISO) foamThickness: 1.50" - 5.5"

o # of layers: 1 o Tapered: Yes Slope: 1/8

o Attachment: Spot adhered

Deck:

o Type: Precast concrete

o 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

o 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

o Attachment: Fully adhered

• Insulation:

 $\circ\,$ Type: Polyisocyanurate (Poly ISO) foam

o Thickness: 1.50" - 5.5"

of layers: 1Tapered: YesSlope: 1/8

o Attachment: Spot adhered

Deck:

o Type: Precast concrete

o 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:

o Surface: Aggregate

o Color: Tan Membrane:

> o Adhesive: Asphalt o # of plies: 3-4

Type of ply: Fiberglass

• Insulation:

Type: Perlite cover board

o Thickness: 1" o # of layers: 1 o Tapered: No o Slope: 0

o Attachment: Fully adhered

Insulation:

○ Type: Polyisocyanurate (Poly ISO) foam ○ Thickness: 1.50" - 5.5"

o # of layers: 1 Tapered: Yes o Slope: 1/8

o Attachment: Spot adhered

Deck:

o Type: Precast concrete

o 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:

o Surface: Aggregate

o Color: Tan Membrane:

> o Adhesive: Asphalt o # of plies: 3-4

Type of ply: Fiberglass

• Insulation:

Type: Perlite cover board

o Thickness: 1" o # of layers: 1 o Tapered: No o Slope: 0

o Attachment: Fully adhered

• Insulation:

○ Type: Polyisocyanurate (Poly ISO) foam○ Thickness: 1.50" - 5.5"

o # of layers: 1 o Tapered: Yes Slope: 1/8

o Attachment: Spot adhered

Deck:

o Type: Precast concrete

o Deck slope: 0

Roof Condition Score: 73 (Degraded)

Section ID: T - T (Photo #2)

Area: 1,148 SF

Roof Condition Score: 73 (Degraded)





Page 28

Section ID: U - U

Area: 170 SF

Roof Type: Built-up membrane

Layers:
• Surface:

o Surface: Aggregate

Color: TanMembrane:

Adhesive: Asphalt# of plies: 3-4

o Type of ply: Fiberglass

• Insulation:

Type: Perlite cover board

Thickness: 1" # of layers: 1 Tapered: No Slope: 0

Attachment: Fully adhered

• Insulation:

o Type: Polyisocyanurate (Poly ISO) foam

o Thickness: 1.50" - 5.5"

of layers: 1Tapered: YesSlope: 1/8

Attachment: Spot adhered

Deck:

o Type: Precast concrete

o 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:

o Surface: Aggregate

Color: TanMembrane:

Adhesive: Asphalt# of plies: 3-4

Type of ply: Fiberglass

• Insulation:

o Type: Perlite cover board

Thickness: 1"# of layers: 1Tapered: NoSlope: 0

o Attachment: Fully adhered

• Insulation:

o Type: Polyisocyanurate (Poly ISO) foam

Thickness: 1.50" - 5.5"

of layers: 1Tapered: YesSlope: 1/8

Attachment: Spot adhered

Deck:

Type: Precast concrete

o 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

o Type of ply: Fiberglass

Insulation:

o Type: Polyisocyanurate (Poly ISO) foam

o Type: Perlite

o Thickness: 1.50" - 3.5"

of layers: 1Tapered: YesSlope: 1/8

Attachment: Asphalt

Deck:

o Type: Precast concrete

o 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:

o Surface: Aggregate

Color: TanMembrane:

Adhesive: Asphalt# of plies: 3-4

Type of ply: Fiberglass

• Insulation:

Type: Perlite cover board

Thickness: 1"# of layers: 1Tapered: NoSlope: 0

o Attachment: Fully adhered

• Insulation:

o Type: Polyisocyanurate (Poly ISO) foam

o Thickness: 1.50" - 5.5"

of layers: 1Tapered: YesSlope: 1/8

o Attachment: Spot adhered

Deck:

Type: Precast concrete

o 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

o Type of ply: Fiberglass

• Insulation:

o Type: Polyisocyanurate (Poly ISO) foam

o Type: Perlite

o Thickness: 1.50" - 3.5"

of layers: 1Tapered: YesSlope: 1/8

Attachment: Asphalt

Deck:

o Type: Precast concrete

o 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:

o Surface: Aggregate

Color: TanMembrane:

Adhesive: Asphalt# of plies: 3-4

Type of ply: Fiberglass

• Insulation:

o Type: Perlite cover board

Thickness: 1"# of layers: 1Tapered: NoSlope: 0

o Attachment: Fully adhered

• Insulation:

o Type: Polyisocyanurate (Poly ISO) foam

o Thickness: 1.50" - 5.5"

of layers: 1Tapered: YesSlope: 1/8

Attachment: Spot adhered

• Deck:

Type: Precast concrete

o 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

