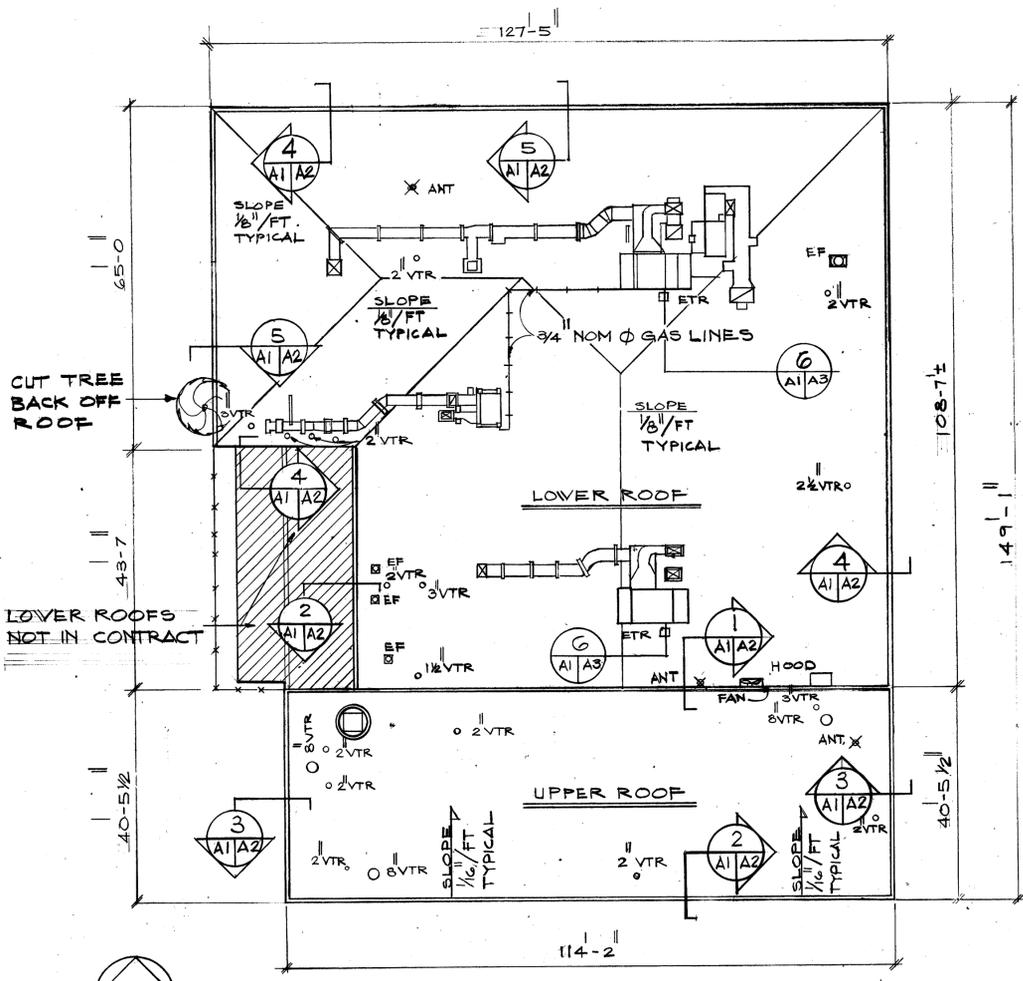


# BUILDING CEP 161

## ROOF REPLACEMENT

REVISIONS				
SYM	DESCRIPTION	DATE	SATISFACTORY	APPROVED BY

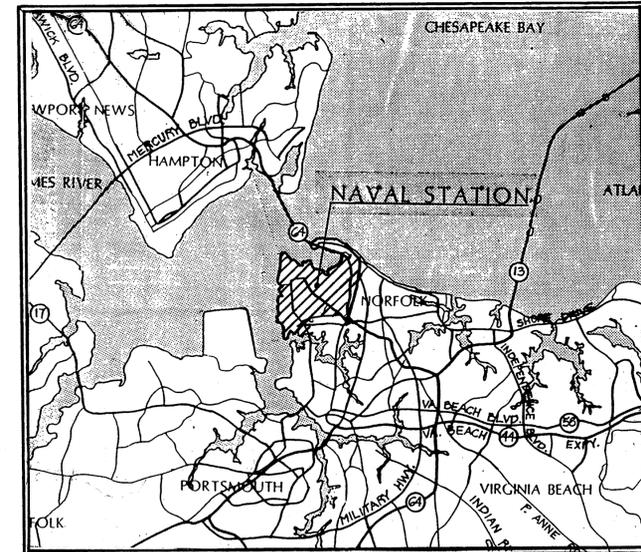


**LEGEND**

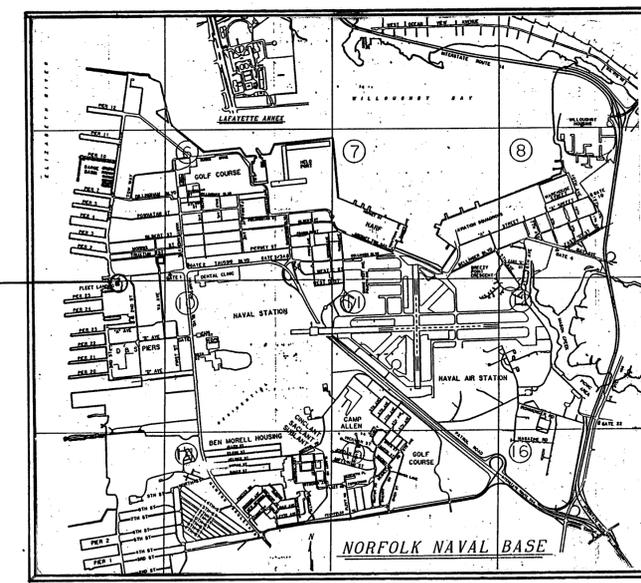
- [Hatched Box] NOT IN CONTRACT
- [VTR Symbol] VENT THROUGH ROOF
- [Return Duct Symbol] RETURN DUCT TO ROOF-MOUNTED A/C-HEAT MECHANICAL EQUIPMENT.
- [Supply Duct Symbol] SUPPLY DUCT FROM ROOF-MOUNTED A/C-HEAT MECHANICAL EQUIPMENT
- [Downspout Symbol] DOWNSPOUT (3"x4" TYPICAL)
- [Exhaust Fan Symbol] EXHAUST FAN
- [ETR Symbol] ELECTRIC CONDUIT THRU ROOF

**DETAIL SYMBOL**

- [Circle with Number] DETAIL NUMBER
- [Circle with Number and Sheet] SHEET WHERE DETAIL IS DRAWN
- [Circle with Number and Sheet] SHEET WHERE DETAIL IS TAKEN



VICINITY MAP



LOCATION PLAN

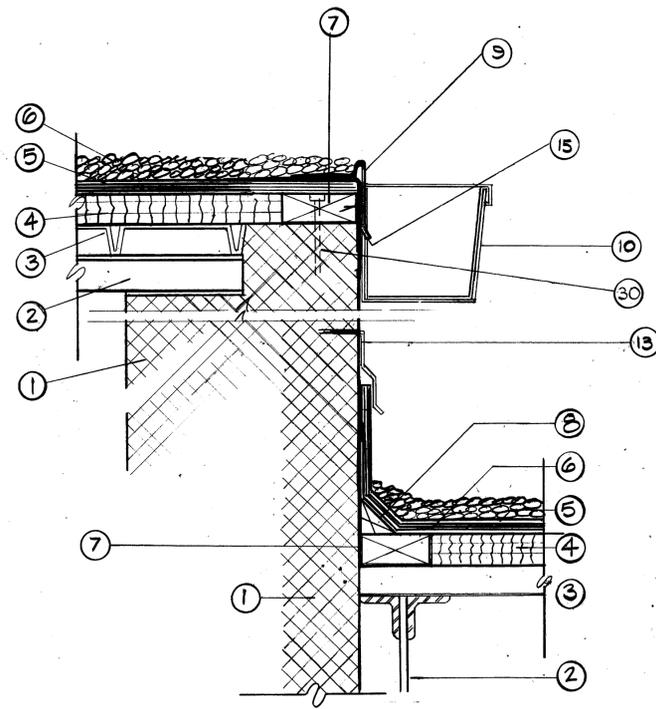
EXISTING ROOF PLAN  
SCALE 1/8" = 1'-0"

**GRAPHIC SCALE**

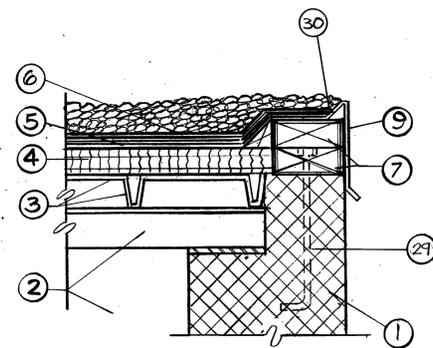
1/8" = 1'-0"

A-1	
DEPARTMENT OF THE NAVY <b>NAVY PUBLIC WORKS CENTER</b> NAVAL STATION NORFOLK, VIRGINIA	
JOB ORDER NO. 1640720	
DESIGNED BY: R-JH CHK.	
BR. MGR.	
SUBMITTED BY: DATE:	
FIRM MEMBER	PRINCIPAL
EC R-JH	F.P.
DIV. DIR. M.L. Cannon PE	
APPROVED: Eddie Slevin 11/9/91	DATE: 11/9/91
SATISFACTORY TO ACTIVITY	
APPROVED: [Signature]	DATE: [Signature]
FOR C.O. FOR COMMANDER, NAVFAC	
SIZE: D	CODE IDENT NO. 80091
NAVFAC DRAWING NO. 4222,800	PWC DRAWING NO. 13415
CONSTR. CONTR. NO. NG2470-90-B-4311	
SCALE: GRAPHIC	SPEC. 05-90-4317
SHEET 1 OF 3	

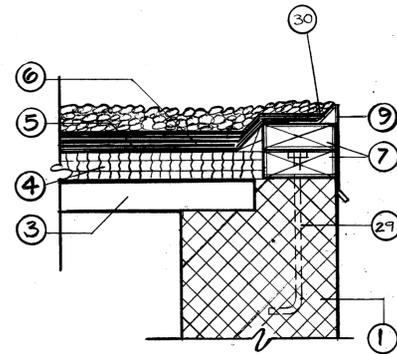
REVISIONS				
SYM	DESCRIPTION	DATE	SATISFACTORY	APPROVED BY



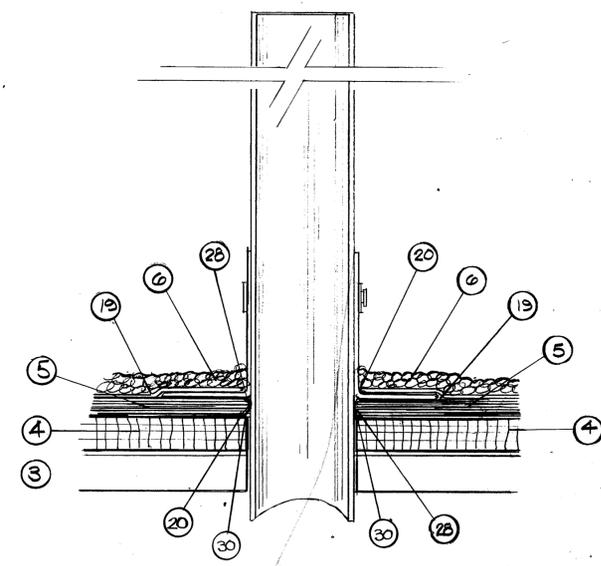
DETAIL 1  
A1 A2



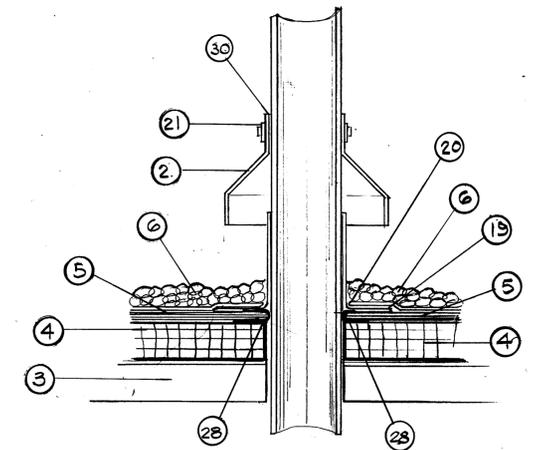
DETAIL 2  
A1 A2



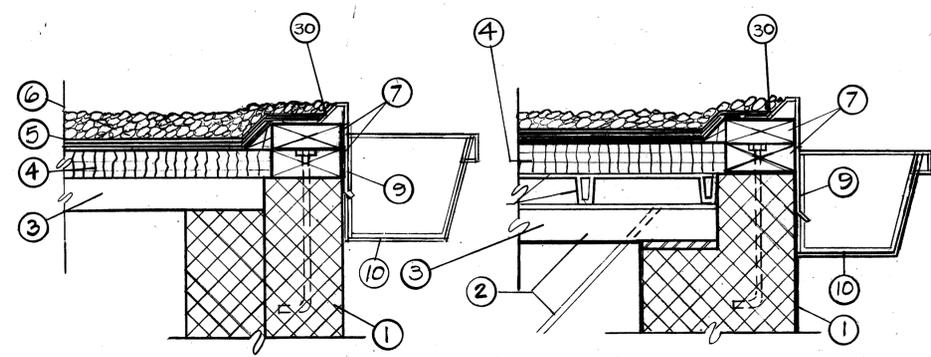
DETAIL 3  
A1 A2



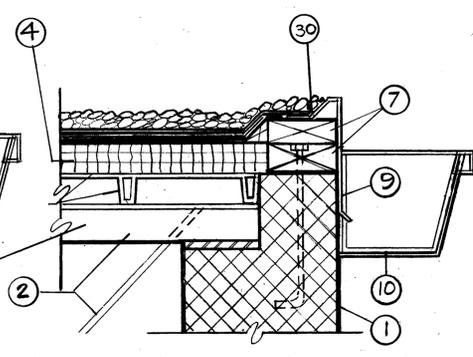
TYPICAL PIPE SUPPORT DETAIL



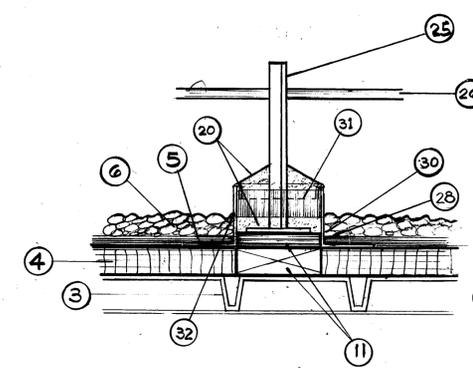
TYPICAL ROOF PROJECTION DETAIL



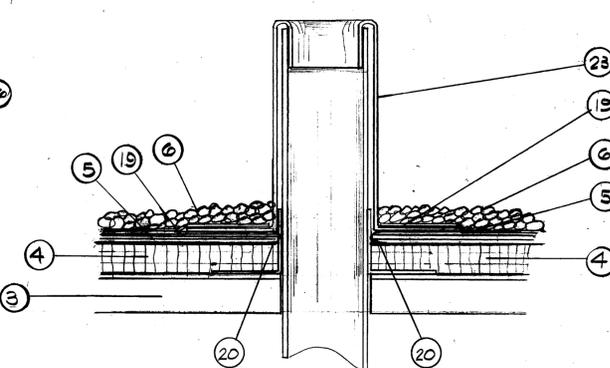
DETAIL 4  
A1 A2



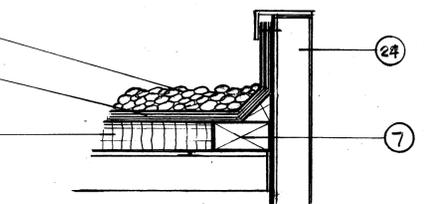
DETAIL 5  
A1 A2



TYPICAL GAS LINE SUPPORT DETAIL



TYPICAL ROOF VENT DETAIL



TYPICAL CURB DETAIL

A-2

DEPARTMENT OF THE NAVY <b>NAVY PUBLIC WORKS CENTER</b> NAVAL STATION		NAVAL FACILITIES ENGINEERING COMMAND NORFOLK, VIRGINIA	
JOB ORDER NO. 1640730			
DES. RJH DR. RJH CHK.			
BR. MGR.			
SUBMITTED BY:		DATE:	
FIRM MEMBER	PRINCIPAL	ROOF REPLACEMENT	
EC	F.P.		
DIV. DIR. N.L. Cannon			
APPROVED:	DATE: 1.9.91	SIZE: D	CODE IDENT NO. / NAVFAC DRAWING NO. 4222,801
Satisfactory to Activity		PWC DRAWING NO. 13915 A	
APPROVED: [Signature]		CONSTR. CONTR. NO. N62470-90-B-4377	
FOR C.O. FOR COMMANDER, NAVFAC		SCALE: GRAPHIC	SPEC. 05-90-4377 SHEET 2 OF 3

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED BY

GENERAL NOTES

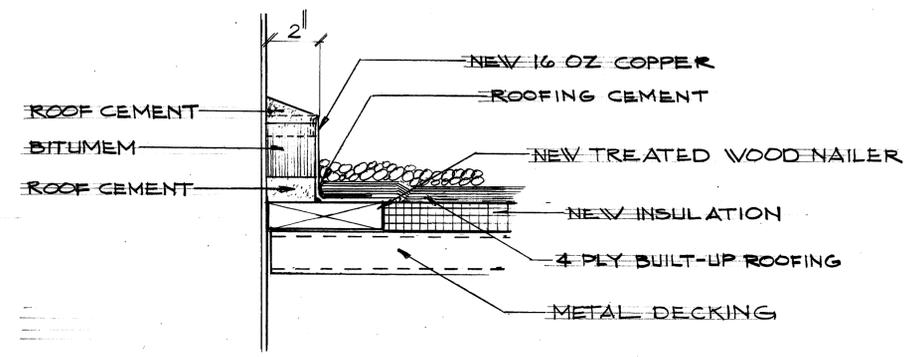
1. THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS.
2. THE CONTRACTOR SHALL CHECK THE EXISTING METAL DECKING FOR SOUNDNESS. TIGHTEN ALL LOOSE CONNECTIONS.
3. THE CONTRACTOR SHALL CUT BACK TREE LIMBS SO LEAVES OF TREE WILL NOT FALL ON ROOF OR IN THE GUTTERS.

REMOVAL NOTES

- THE EXISTING ROOF IS COVERED WITH TWO ROOFS. ONE OF THE ROOF CONSISTED OF AN EPDM ELASTOMERIC MEMBRANE, RIGID EXPANSION POLYSTYRENE AND 3/4" PERLITE BOARD INSULATION. THE SECOND ROOF CONSISTED OF ROOF AGGREGATE, 4 PLY BITUMINOUS BUILT UP ROOF AND FIBERGLASS ROOF INSULATION. CONTRACTOR SHALL REMOVE BOTH ROOFS IN THEIR ENTIRETY.
1. CONTRACTOR SHALL REMOVE ALL WOOD NAILERS, METAL FLASHING AND GUTTERS ON THE ROOF. THE EXISTING GUTTERS SHALL BE REUSED AND REHUNG AFTER NEW ROOF IS IN PLACE.

LEGEND

1. EXISTING MASONRY WALL.
2. EXISTING BAR JOIST.
3. EXISTING METAL ROOF DECK.
4. NEW FIBER GLASS ROOF INSULATION.
5. NEW 4-PLY BITUMINOUS BUILT-UP ROOF.
6. NEW GRAVEL ROOF AGGREGATE.
7. NEW CONTINUOUS WOOD NAILER.
8. NEW CONTINUOUS WOOD CANT STRIP.
9. NEW METAL GRAVEL STOP.
10. EXISTING METAL GUTTER.
11. TREATED WOOD NAILER
12. NEW 4-PLY BITUMINOUS BASE FLASHING.
13. NEW CONTINUOUS METAL COUNTER FLASHING INSTALLED IN SAWN REGLET & HORIZONTAL CMU JOINT SECURED W/LEAD WEDGES SPACED & MAXIMUM 12" O.C. PROVIDE CONTINUOUS BEAD OF SEALANT AT TOP OF FLASHING. PROVIDE SAW CUT APPROX. 8"± ABOVE EXIST. FLASHING.
14. NEW CONTINUOUS METAL FLASHING W/3/4" DRIP EDGE.
15. NEW CONTINUOUS METAL CLEAT NOTCHED AT GUTTER HANGERS.
16. NEW METAL GUTTER BRACES AT 2'-6" O.C. MAX.
17. NEW 1/4"X 1 1/4" METAL GUTTER HANGERS AT 2'-6" O.C. MAX.
18. NEW CONTINUOUS METAL GUTTER.
19. STRIP IN TWO FELT STRIPS AND SIT IN BITUMEN OVER FLANGE.
20. ROOFING CEMENT
21. METAL BAND BOLTED ON.
22. NINETY POUND WEAR SHEET WITH VAPOR RETARDER (NAIL 8 O/C).
23. LEAD SLEEVE WITH FLANGE SET IN ROOFING CEMENT.
24. EXISTING CURB.
25. EXISTING L SUPPORT LEG WITH BASE PLATE.
26. GAS LINE.
27. METAL HOOD.
28. WRAP FELTS.
29. EXISTING ANCHOR BOLT.
30. ROOFING CEMENT AT ALL JOINTS.
31. BITUMEN
32. NEW 16 OZ COPPER



6 PITCH POCKET  
SCALE 3"=1'-0"

JOB ORDER NO. 1640730 DES. R.J.H. DR. R.J.H. CHK. BR. MGR. SUBMITTED BY: DATE: FIRM MEMBER / PRINCIPAL EC R.J.H. P.P. DIV. DIR. M.L. Cannon PE APPROVED: DATE: 11/9/91 Eddy Glass SATISFACTORY TO ACTIVITY APPROVED: DATE: 11/9/91 FOR C.O. FOR COMMANDER, NAVFAC		DEPARTMENT OF THE NAVY <b>NAVY PUBLIC WORKS CENTER</b> NAVAL STATION NORFOLK, VIRGINIA	
		BUILDING CEP 161 ROOF REPLACEMENT	
SIZE D	CODE IDENT NO. 80091	NAVFAC DRAWING NO. 4222,802	PWC DRAWING NO. 13915B
SCALE: GRAPHIC		CONSTR. CONTR. NO. 462470-90-B-4377	SPEC. 25-90-4377 SHEET 3 OF 3

A-3