

SHOP DRAWING REVIEW FORM AND TRANSMITTAL

DATE: November 5, 2021

TO: Carl Hendrickson
Project Manager
Veolia Water
825 West Water Street
Taunton, MA 02780

FROM: Michael Andrus, P.E.
Project Manager
BETA Group, Inc.
701 George Washington Hwy
Lincoln, Rhode Island 02865

RE: City of Taunton, MA
WWTF Phase 1 Improvements
Contract S-2021-1

Shop Drawing No. 07002-01 Tapered Roof Insulation

BETA COMMENTS:

<u>Item</u>	<u>Action Code</u>	<u>Description/Comments</u>
1	1	Tapered Roof Insulation 1. Acceptable as submitted

Action Codes

- 1 - No Exception Taken
- 2 - Make Corrections Noted
- 3 - Amend and Resubmit
- 4 - Rejected, See Remarks

- a. Installation shall proceed only when Action Code is '1' or '2'.
- b. Submittals action coded '3' shall be resubmitted within time limit set in Contract.
- c. Review does not relieve Contractor from responsibility of compliance with the Contract Documents.



SUBMITTAL REVIEW COMMENT SHEET

PROJECT TITLE:	Taunton WWTG Phase 1 Improvements		
OWNER:	Town of Taunton, MA		
CONTRACT NO.:		PROJECT NO.:	11186884

SUBMITTAL NO. AND TITLE:	070001-02 Tapered Roof Insulation	<input checked="" type="checkbox"/> ACCEPTED <input type="checkbox"/> ACCEPTED AS CORRECTED (NO RESUBMITTAL REQUIRED) <input type="checkbox"/> ACCEPTED AS CORRECTED (RESUBMITTAL REQUIRED) <input type="checkbox"/> ACCEPTED AS CORRECTED (PROVIDE REQUESTED INFORMATION ONLY)
SPECIFICATION SECTION NO. AND TITLE:	11186884-SPC1	
<input checked="" type="checkbox"/> SHOP DRAWING <input type="checkbox"/> O&M MANUAL <input type="checkbox"/> PRODUCT SAMPLE <input type="checkbox"/> OTHER:	Reviewed only for conformance with the design concept of the project and with information given in the Contract Documents. The Contractor is responsible for: 1) verifying that dimensions are confirmed and correlated at the job site; 2) obtaining information that pertains to the fabrication processes or to techniques of construction; and 3) coordinating the work of all subcontractors.	<input type="checkbox"/> REVISE AND RESUBMIT <input type="checkbox"/> NOT APPROVED <input type="checkbox"/> NOT REVIEWED <input type="checkbox"/> FOR INFORMATION PURPOSES ONLY

By: KNH

Date: 11/3/2021

Comments:

1. No comments.



TAPERED SYSTEM QUOTATION

*Quotation provided by North Bridge BP,
an authorized representative of Johns Manville Commercial Roofing Products.*

Project Information:

Project Name:	TAUNTON WWTF-BLOWER BLDG.	Bid Date:	
Property City/State:	TAUNTON, MA	Quoted Date:	10/05/21
Reference Number:	T21-627-V1	REVISION #	A
Description:	1/4" TAPERED SLOPE WITH 1/2" CRICKETS & BASE LAYERS.		

Product Information & Tapered Roof Area:

Material:	Tapered ISO (Polyiso)	Cricket Slope:	1/2"
Tapered Slope:	1/4"	Cricket Min Thickness:	0.5"
Tapered Min Thickness:	5.3"	Cricket Max Thickness:	2.5"
Tapered Max Thickness:	7.98"	Compressive Strength:	20 psi
Average R-Value:	37.78	Base Layer ISO Thickness:	INCLUDED
Notes:	LAYER OF 2.6" & 2.2" FLAT ISO INCLUDED UNDER 0.5" MIN. TAPERED SYSTEM FOR R-30 MIN.		

Analysis & Pricing:

Approx. Roof Size(sq. ft):	2,237	Truckloads(48 ft.):	0.52
Total Cricket SQ's Handled:	10.24	Total Applied SQ's:	77.06
Total Handled SQ's:	87.20	Project Subtotal:	
Special Notes:			

EACH TRUCK NEEDED FOR DELIVERY COMES WITH AN ADDITIONAL \$400 FREIGHT CHARGE

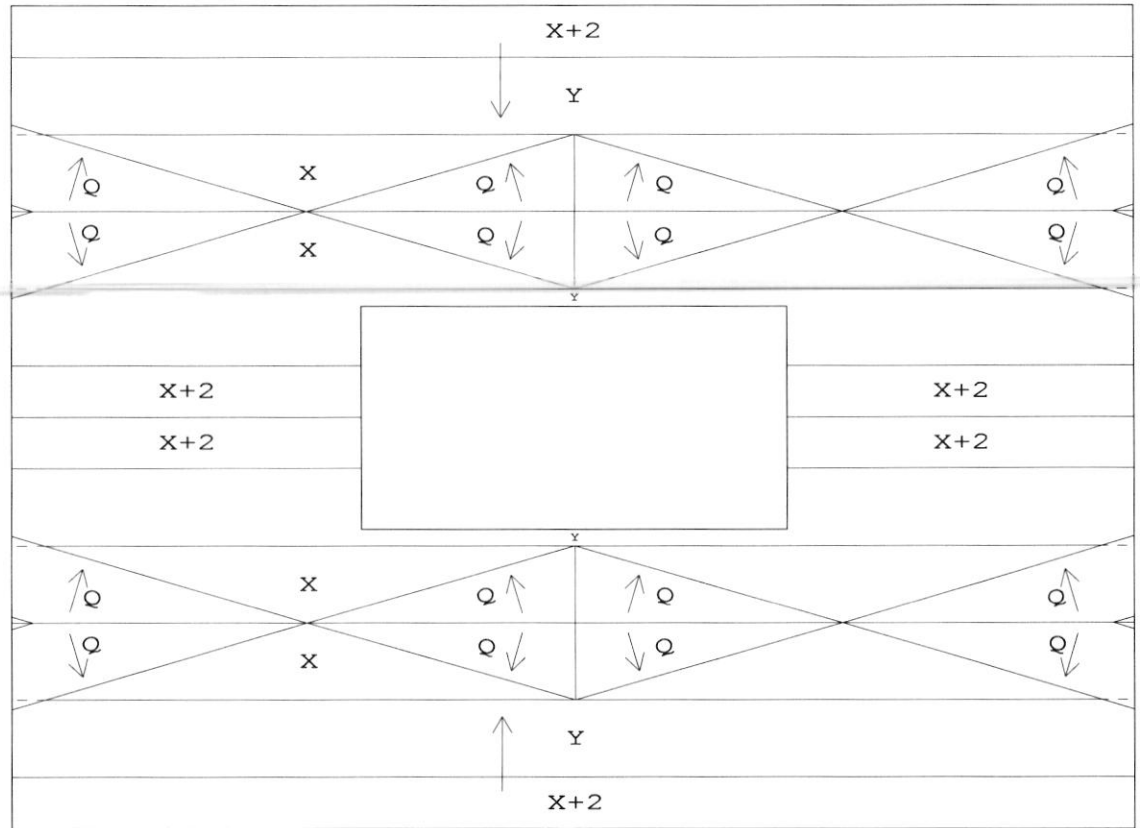
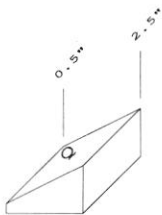
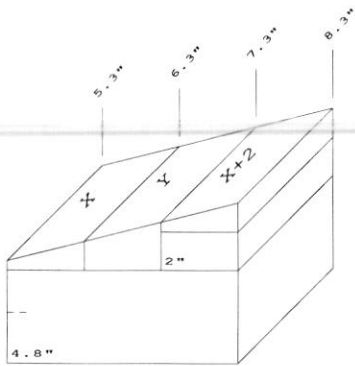
*For questions regarding this quote, please contact:
North Bridge Building Products, 2 Executive Drive, Suite 304, Chelmsford, MA 01824
Phone 844.458.9000*



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- Price is based on estimated drain locations - field verification of existing conditions and dimensions required prior to shipment.
- Quotation does not include material that may be required for tapered edge strips, sumps, drains, or recovery board.
- **Flat on Structurally Sloped Roof Area(s):** this quotation **DOES NOT INCLUDE** any required flat on the structurally sloped roof areas.
- **Base Layer for Full Tapered Area(s):** this quotation **DOES INCLUDE** a base layer.
- This quotation **DOES NOT INCLUDE** cover board or overlay.
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Project: TAUNTON WWTF- CH BUILDING
 Location: TAUNTON, MA
 Quote Number: T21-627-V1 REV A
 Estimator: DH Date: 10/05/21



Tapered Slope: 1/4" Min. Thickness: 5.3" Max Thickness: 7.98"
 Cricket Slope: 1/2" Base Layer: INCLUDED
 Average R-Value: 37.78 Comp. Strength: 20 PSI
 Overall Squares Applied: 77.06



TAPERED SYSTEM QUOTATION

*Quotation provided by North Bridge BP,
an authorized representative of Johns Manville Commercial Roofing Products.*

Project Information:

Project Name:	TAUNTON WWTF- CHEMICAL HANDLING BLDG.	Bid Date:	
Property City/State:	TAUNTON, MA	Quoted Date:	10/05/21
Reference Number:	T21-626-V1	REVISION #	A
Description:	1/4" TAPERED SLOPE WITH 1/2" CRICKETS & BASE LAYERS.		

Product Information & Tapered Roof Area:

Material:	Tapered ISO (Polyiso)	Cricket Slope:	1/2"
Tapered Slope:	1/4"	Cricket Min Thickness:	0.5"
Tapered Min Thickness:	5.3"	Cricket Max Thickness:	3.10"
Tapered Max Thickness:	8.55"	Compressive Strength:	20 psi
Average R-Value:	38.35	Base Layer ISO Thickness:	INCLUDED
Notes:	LAYER OF 2.6" & 2.2" FLAT ISO INCLUDED UNDER 0.5" MIN. TAPERED SYSTEM FOR R-30 MIN.		

Analysis & Pricing:

Approx. Roof Size(sq. ft):	1,988.5	Truckloads(48 ft.):	0.52
Total Cricket SQ's Handled:	10.24	Total Applied SQ's:	69.57
Total Handled SQ's:	80.0	Project Subtotal:	
Special Notes:			

EACH TRUCK NEEDED FOR DELIVERY COMES WITH AN ADDITIONAL \$400 FREIGHT CHARGE

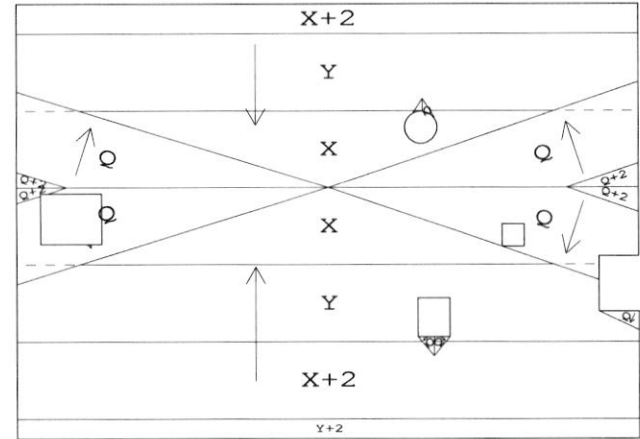
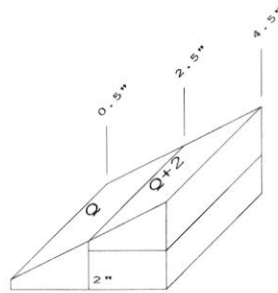
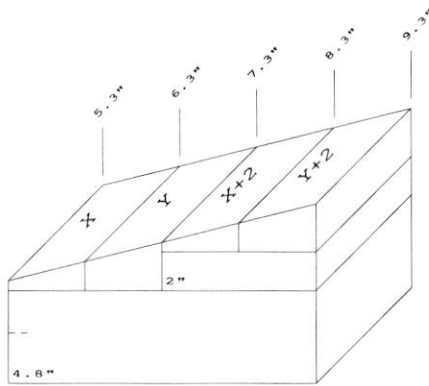
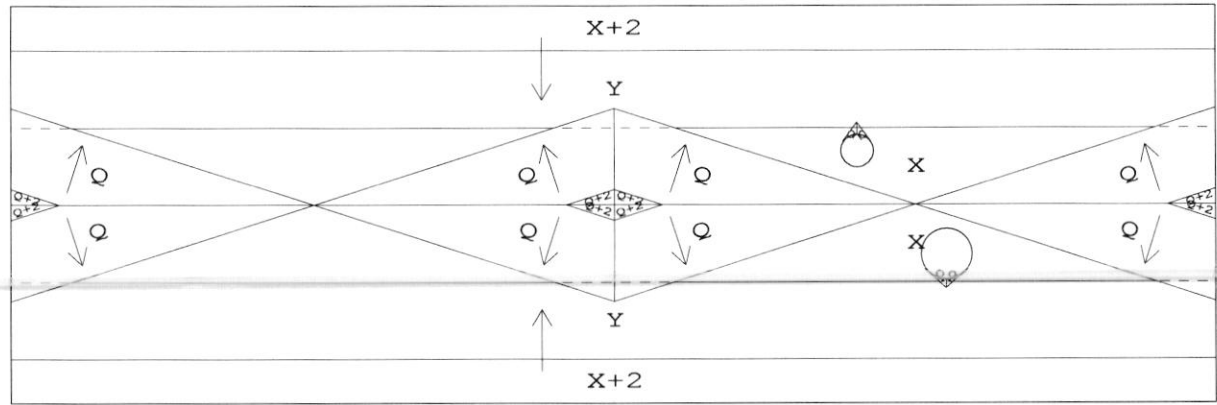
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- **Flat on Structurally Sloped Roof Area(s):** this quotation **DOES NOT INCLUDE** any required flat on the structurally sloped roof areas.
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Project: TAUNTON WWTF- CH BUILDING
 Location: TAUNTON, MA
 Quote Number: T21-626-V1 REV A
 Estimator: DH Date: 10/05/21



Tapered Slope: 1/4" Min. Thickness: 5.3" Max Thickness: 8.55"
 Cricket Slope: 1/2" Base Layer: INCLUDED
 Average R-Value: 38.35 Comp. Strength: 20 PSI
 Overall Squares Applied: 69.57



TAPERED SYSTEM QUOTATION

*Quotation provided by North Bridge BP,
an authorized representative of Johns Manville Commercial Roofing Products.*

Project Information:

Project Name:	TAUNTON WWTF-PUMP STATION 1	Bid Date:	
Property City/State:	TAUNTON, MA	Quoted Date:	10/05/21
Reference Number:	T21-624-V1	REVISION #	A
Description:	1/4" TAPERED SLOPE WITH 1/2" CRICKETS & BASE LAYERS.		

Product Information & Tapered Roof Area:

Material:	Tapered ISO (Polyiso)	Cricket Slope:	1/2"
Tapered Slope:	1/4"	Cricket Min Thickness:	0.5"
Tapered Min Thickness:	5.3"	Cricket Max Thickness:	2.40"
Tapered Max Thickness:	10.49"	Compressive Strength:	20 psi
Average R-Value:	45.15	Base Layer ISO Thickness:	INCLUDED
Notes:	LAYER OF 2.6" & 2.2" FLAT ISO INCLUDED UNDER 0.5" MIN. TAPERED SYSTEM FOR R-30 MIN.		

Analysis & Pricing:

Approx. Roof Size(sq. ft):	1,906	Truckloads(48 ft.):	0.52
Total Cricket SQ's Handled:	5.28	Total Applied SQ's:	75.23
Total Handled SQ's:	82.88	Project Subtotal:	
Special Notes:			

EACH TRUCK NEEDED FOR DELIVERY COMES WITH AN ADDITIONAL \$400 FREIGHT CHARGE

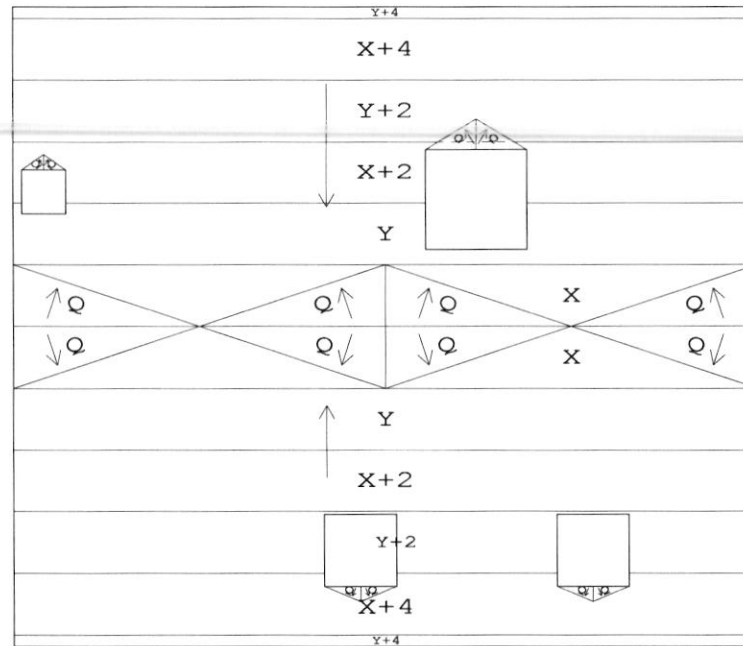
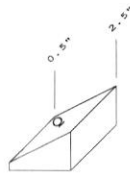
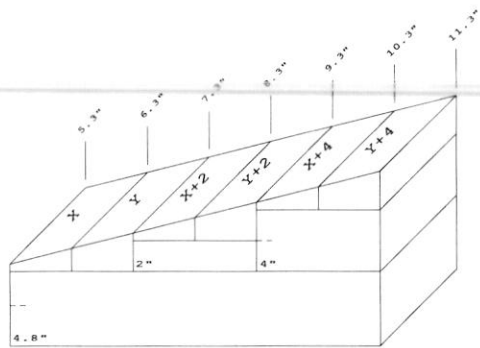
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Project: TAUNTON WWTF- PUMP STN 1
 Location: TAUNTON, MA
 Quote Number: T21-624-V1 REV A
 Estimator: DH Date: 10/05/21



Tapered Slope: 1/4" Min. Thickness: 5.3" Max Thickness: 10.49"
 Cricket Slope: 1/2" Base Layer: INCLUDED
 Average R-Value: 45.15 Comp. Strength: 20 PSI
 Overall Squares Applied: 75.23



TAPERED SYSTEM QUOTATION

*Quotation provided by North Bridge BP,
an authorized representative of Johns Manville Commercial Roofing Products.*

Project Information:

Project Name:	TAUNTON WWTF- PUMP STATION 2	Bid Date:	
Property City/State:	TAUNTON, MA	Quoted Date:	10/05/21
Reference Number:	T21-625-V1	REVISION #	A
Description:	1/4" TAPERED SLOPE WITH 1/2" CRICKETS & BASE LAYERS.		

Product Information & Tapered Roof Area:

Material:	Tapered ISO (Polyiso)	Cricket Slope:	1/2"
Tapered Slope:	1/4"	Cricket Min Thickness:	0.5"
Tapered Min Thickness:	5.3"	Cricket Max Thickness:	2.40"
Tapered Max Thickness:	7.91"	Compressive Strength:	20 psi
Average R-Value:	37.97	Base Layer ISO Thickness:	INCLUDED
Notes:	LAYER OF 2.6" & 2.2" FLAT ISO INCLUDED UNDER 0.5" MIN. TAPERED SYSTEM FOR R-30 MIN.		

Analysis & Pricing:

Approx. Roof Size(sq. ft):	994	Truckloads(48 ft.):	0.29
Total Cricket SQ's Handled:	4.32	Total Applied SQ's:	34.0
Total Handled SQ's:	38.72	Project Subtotal:	
Special Notes:			

EACH TRUCK NEEDED FOR DELIVERY COMES WITH AN ADDITIONAL \$400 FREIGHT CHARGE

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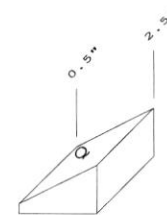
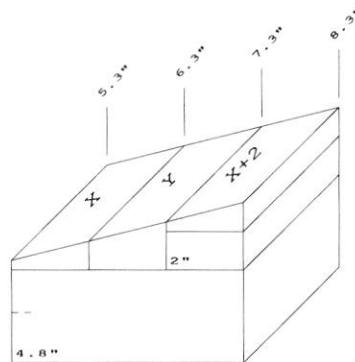
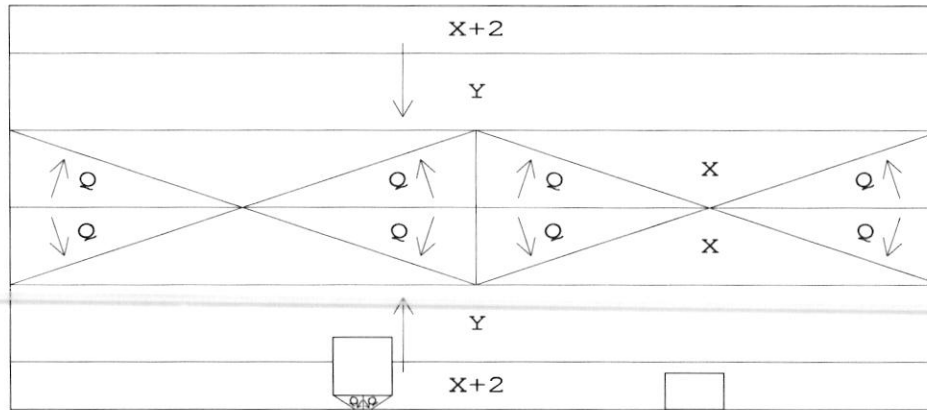


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Project: TAUNTON WWTF- PUMP STN 2
 Location: TAUNTON, MA
 Quote Number: T21-625-V1 REV A
 Estimator: DH Date: 10/05/21



Tapered Slope: 1/4" Min. Thickness: 5.3" Max Thickness: 7.91"
 Cricket Slope: 1/2" Base Layer: INCLUDED
 Average R-Value: 37.97 Comp. Strength: 20 PSI
 Overall Squares Applied: 34.0



TAPERED SYSTEM QUOTATION

*Quotation provided by North Bridge BP,
an authorized representative of Johns Manville Commercial Roofing Products.*

Project Information:

Project Name:	TAUNTON WWTF- SOLIDS HANDLING BLDG.	Bid Date:	
Property City/State:	TAUNTON, MA	Quoted Date:	10/05/21
Reference Number:	T21-628-V1	REVISION #	A
Description:	1/4" TAPERED SLOPE WITH 1/2" CRICKETS & BASE LAYERS.		

Product Information & Tapered Roof Area:

Material:	Tapered ISO (Polyiso)	Cricket Slope:	1/2"
Tapered Slope:	1/4"	Cricket Min Thickness:	0.5"
Tapered Min Thickness:	5.3"	Cricket Max Thickness:	7.21"
Tapered Max Thickness:	14.43"	Compressive Strength:	20 psi
Average R-Value:	45.74	Base Layer ISO Thickness:	INCLUDED
Notes:	LAYER OF 2.6" & 2.2" FLAT ISO INCLUDED UNDER 0.5" MIN. TAPERED SYSTEM FOR R-30 MIN.		

Analysis & Pricing:

Approx. Roof Size(sq. ft):	8,891	Truckloads(48 ft.):	2.25
Total Cricket SQ's Handled:	35.20	Total Applied SQ's:	365.67
Total Handled SQ's:	388.64	Project Subtotal:	
Special Notes:			

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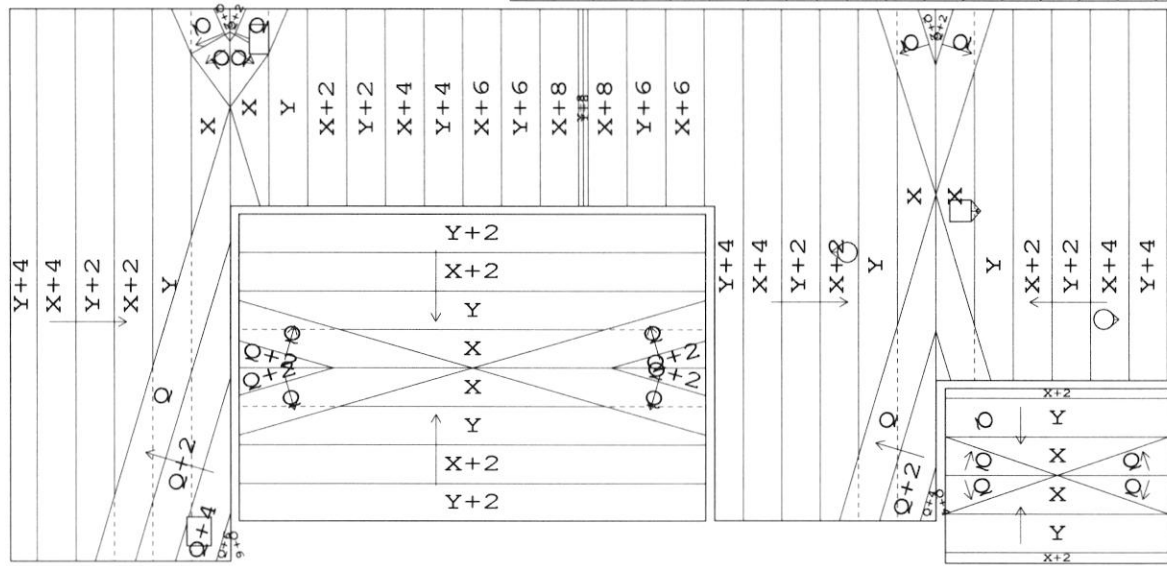
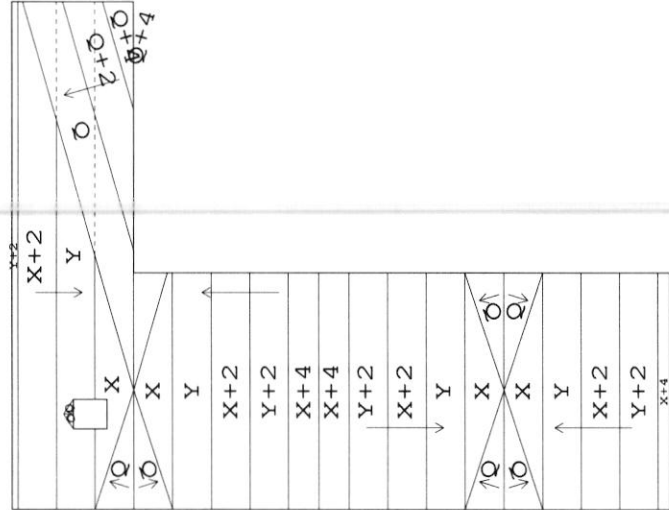
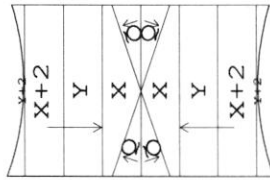
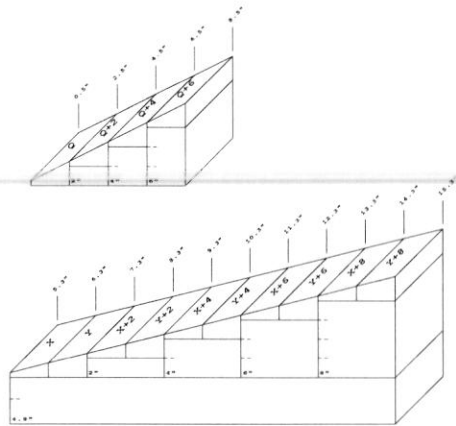
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Project: TAUNTON WWTF- S.H. BUILDING
 Location: TAUNTON, MA
 Quote Number: T21-628-V1 REV A
 Estimator: DH Date: 10/05/21



Tapered Slope: 1/4" Min. Thickness: 5.3" Max Thickness: 14.43"
 Cricket Slope: 1/2" Base Layer: INCLUDED
 Average R-Value: 45.74 Comp. Strength: 20 PSI
 Overall Squares Applied: 365.67



TAPERED SYSTEM QUOTATION

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Project Information:

Project Name:	TAUNTON WWTF- OPERATIONS BLDG.	Bid Date:	
Property City/State:	TAUNTON, MA	Quoted Date:	10/05/21
Reference Number:	T21-629-V1	REVISION #	A
Description:	1/4" TAPERED SLOPE WITH 1/2" CRICKETS & BASE LAYERS.		

Product Information & Tapered Roof Area:

Material:	Tapered ISO (Polyiso)	Cricket Slope:	1/2"
Tapered Slope:	1/4"	Cricket Min Thickness:	0.5"
Tapered Min Thickness:	5.3"	Cricket Max Thickness:	3.86"
Tapered Max Thickness:	10.79"	Compressive Strength:	20 psi
Average R-Value:	43.15	Base Layer ISO Thickness:	INCLUDED
Notes:	LAYER OF 2.6" & 2.2" FLAT ISO INCLUDED UNDER 0.5" MIN. TAPERED SYSTEM FOR R-30 MIN.		

Analysis & Pricing:

Approx. Roof Size(sq. ft):	4,980	Truckloads(48 ft.):	1.23
Total Cricket SQ's Handled:	17.76	Total Applied SQ's:	188.08
Total Handled SQ's:	205.60	Project Subtotal:	
Special Notes:			

EACH TRUCK NEEDED FOR DELIVERY COMES WITH AN ADDITIONAL \$400 FREIGHT CHARGE

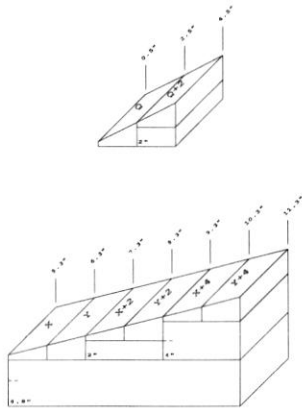
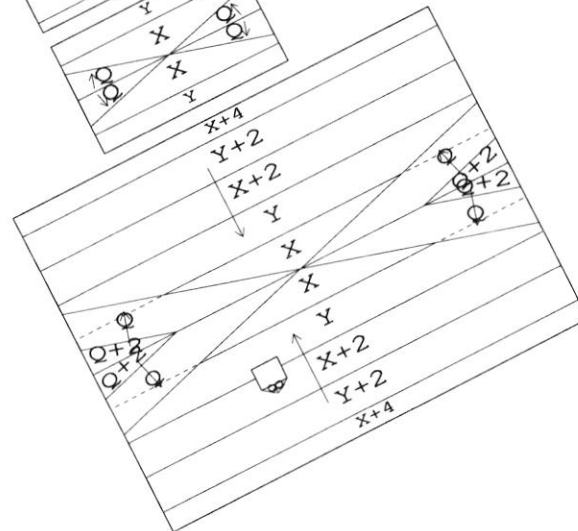
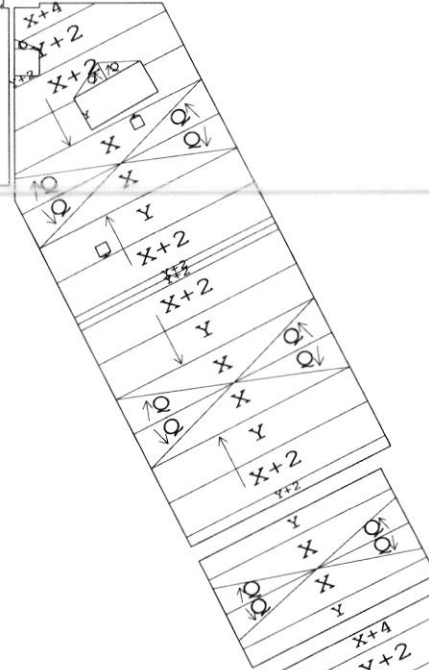
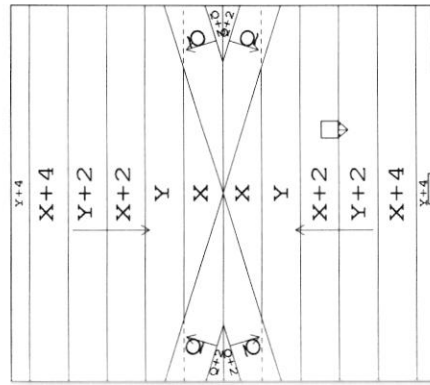
*For questions regarding this quote, please contact:
North Bridge Building Products, 2 Executive Drive, Suite 304, Chelmsford, MA 01824
Phone 844.458.9000*



DISCLAIMERS AND NOTICES:

- This quotation is based solely on information provided by you or acquired by us on your behalf and it is assumed that you are providing and/or verifying clear roof areas and complete information. As such, this quotation reflects our interpretation only of plans and specs received and may differ from architectural specifications or actual building specifications. This interpretation is based only on the roof drawing or the specific plan pages indicated by you the customer and may not include hidden roof areas or roof areas not shown clearly on a roof drawing.
- Price reflects only attached/included layout. You will be asked to verify that these are the full and correct dimensions prior to placing an order.
- Price includes the use of ISO FILL within tapered & cricket systems **but may not include a base layer of polyisocyanurate.**
- **Waste is included in this quotation but in extremely limited quantities and the layout assumes that "cut pieces" are used whenever possible.**
- Quotation valid until indicated expiration date but in no event more than 90 days from the quote date. Pricing is fully dependent upon pricing from the manufacturers providing the polyisocyanurate insulation and is subject to change at their discretion.
- Price is based on estimated drain locations - field verification of existing conditions and dimensions required prior to shipment.
- Quotation does not include material that may be required for tapered edge strips, sumps, drains, or recovery board.
- **Flat on Structurally Sloped Roof Area(s):** this quotation **DOES NOT INCLUDE** any required flat on the structurally sloped roof areas.
- **Base Layer for Full Tapered Area(s):** this quotation **DOES INCLUDE** a base layer.
- This quotation **DOES NOT INCLUDE** cover board or overlay.
- Deviation to this interpretation will require revised pricing. This quotation supersedes any prior quotation(s) for this tapered system quote.
- R-values shown comply with revised 2014 LTTR Value of 5.7 R/inch (LTTR (R-Value) based on ASTM c 1289-13e1).
- Prices quoted herein are subject to change without notice prior to acceptance of an order submitted by customer.
- This quotation is not an offer to sell. Please verify product availability prior to placing an order.
- Each full truckload delivered comes with a \$400 freight charge.

For questions regarding this quote, please contact:
North Bridge Building Products, 2 Executive Drive, Suite 304, Chelmsford, MA 01824
Phone 844.458.9000



Project: TAUNTON WWTF- OPS. BUILDING
 Location: TAUNTON, MA
 Quote Number: T21-629-V1 REV A
 Estimator: DH Date: 10/05/21



Tapered Slope: 1/4" Min. Thickness: 5.3" Max Thickness: 10.79"
 Cricket Slope: 1/2" Base Layer: INCLUDED
 Average R-Value: 43.15 Comp. Strength: 20 PSI
 Overall Squares Applied: 188.08



TAPERED SYSTEM QUOTATION

*Quotation provided by North Bridge BP,
an authorized representative of Johns Manville Commercial Roofing Products.*

Project Information:

Project Name:	TAUNTON WWTF- STORAGE BLDG.	Bid Date:	
Property City/State:	TAUNTON, MA	Quoted Date:	10/05/21
Reference Number:	T21-630-V1	REVISION #	A
Description:	1/4" TAPERED SLOPE WITH 1/2" CRICKETS & BASE LAYERS.		

Product Information & Tapered Roof Area:

Material:	Tapered ISO (Polyiso)	Cricket Slope:	1/2"
Tapered Slope:	1/4"	Cricket Min Thickness:	0.5"
Tapered Min Thickness:	5.3"	Cricket Max Thickness:	2.41"
Tapered Max Thickness:	10.89"	Compressive Strength:	20 psi
Average R-Value:	46.30	Base Layer ISO Thickness:	INCLUDED
Notes:	LAYER OF 2.6" & 2.2" FLAT ISO INCLUDED UNDER 0.5" MIN. TAPERED SYSTEM FOR R-30 MIN.		

Analysis & Pricing:

Approx. Roof Size(sq. ft):	2,316	Truckloads(48 ft.):	0.63
Total Cricket SQ's Handled:	4.96	Total Applied SQ's:	92.89
Total Handled SQ's:	98.08	Project Subtotal:	
Special Notes:			

EACH TRUCK NEEDED FOR DELIVERY COMES WITH AN ADDITIONAL \$400 FREIGHT CHARGE

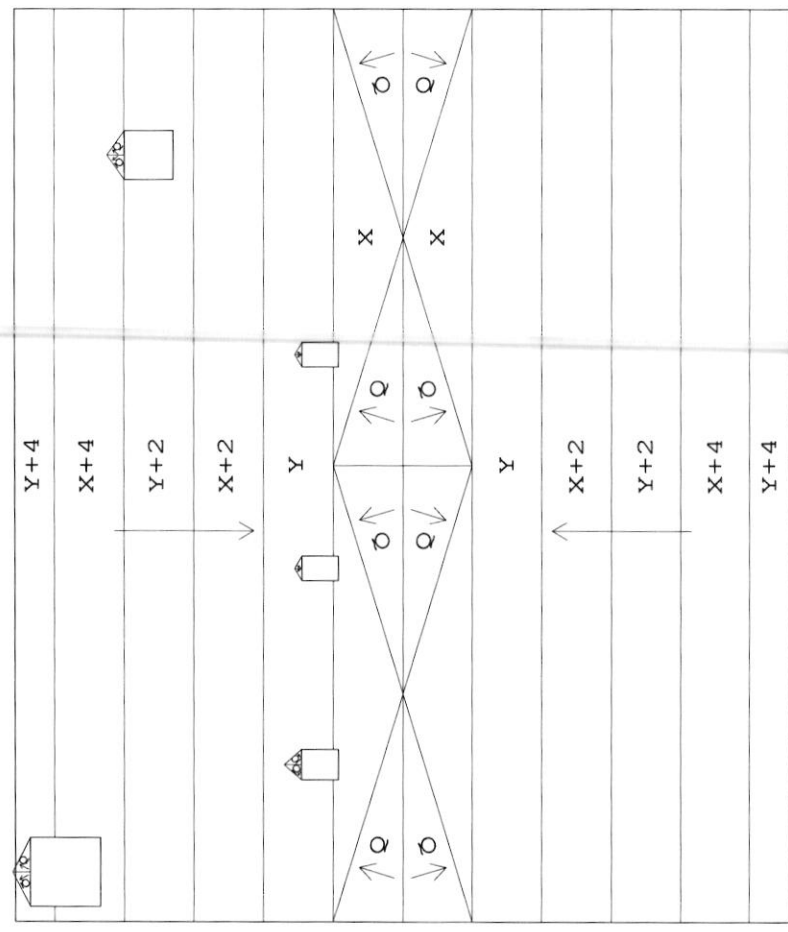
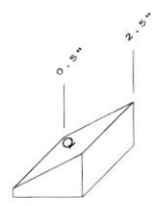
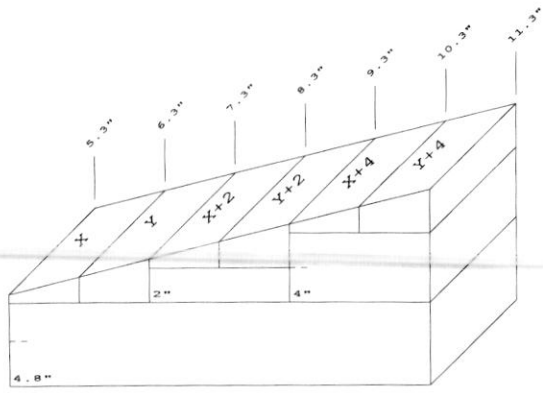
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Phone 844.458.9000*



Project: TAUNTON WWTF-STORAGE BUILDING
 Location: TAUNTON, MA
 Quote Number: T21-630-V1 REV A
 Estimator: DH Date: 10/05/21



Tapered Slope: 1/4" Min. Thickness: 5.3" Max Thickness: 10.89"
 Cricket Slope: 1/2" Base Layer: INCLUDED
 Average R-Value: 46.30 Comp. Strength: 20 PSI
 Overall Squares Applied: 92.89