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AGENDA
BELLEFONTE BOROUGH AUTHORITY
Meeting of Tuesday, July 1st, 2025 at 6:00 PM
In-person
The Oak Room, 301 North Spring Street

6:00 PM - CALL MEETING TO ORDER:

PLEDGE OF ALLEGIANCE and MOMENT OF SILENCE FOR THE LOSS OF AUTHORITY MEMBER DAN DELOTTO

ROLL CALL:

Mr. Beigle	Mr. Falcone
Mr. Brown	Mr. Halderman
	Mr. Johnson
Mr. Eaton	

APPROVAL OF MINUTES: June 3rd, 2025

ADDITIONS TO THE AUTHORITY MEETING AGENDA

In accordance with Act 65 of 2021, If a matter is not on the Agenda, the Authority cannot take official action on it with some exceptions. The Authority can act on matters relating to potential or real emergencies. The Authority may add a matter of agency business to its agenda through majority vote. The Authority should state the reason why the action item is being added to the Agenda. **The Authority may vote to add an action item(s) to the agenda**

COMMUNICATIONS ORAL/Public Comment:

Please sign in and state your name and address and what you are speaking about. Please try to limit comments to three minutes maximum.

COMMUNICATIONS WRITTEN:

Letter from Nittany Valley Joint Recreation Authority Inquiring about the possibility of grant dollars of the Borough Authority being directed to cover a funding shortfall for the Kepler Pool project.

Avid and Candlewood Suites' discussion of possible reimbursement or discount for water services due to opening and providing proof of a section of 8" ductile watermain pipe bedding work.

FINANCE COMMITTEE REPORT:

Budget v. Actual May 2025

ENGINEER REPORT:

Jean Ryan, Barton and Loguidice

REPORTS – SEWER:

Superintendent's Report June 2025

REPORTS – WATER:

Superintendent's Report June 2025

OLD BUSINESS:

Tours feedback, thoughts ?

Big Spring Cover – updated cost estimate for a hard-shell cover – see email

Act 57 Study – Tap Fees for the Corning Line.

Review of current Rules and Regulations. Staff will try to review the regulations and provide markups to the Authority.

Niagara Bottling Agreement. Authority may review the current agreement and amend.
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Has everyone activated their Authority email accounts? If not, please see Alyssa. Thank you.
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NEW BUSINESS:

Daily Water withdrawal June 2025. FYI. No Authority action is requested.

AROUND THE ROOM:

Motion to Adjourn: _____ **Second:** _____ **ADJOURNED @:** _____

**BELLEFONTE BOROUGH WATER AUTHORITY
MEETING MINUTES
REGULAR MEETING**

**June 3, 2025 – 6 p.m.
301 N. Spring Street, Suite 200
Bellefonte, PA 16823
www.bellefonte.net**

CALL TO ORDER

The meeting was called to order on June 3rd, 2025, at 6 p.m.

PLEDGE OF ALLEGIANCE

ROLL CALL Authority members present:

Mr. Joe Beigle
Mr. Greg Brown
Mr. Dan DeLotto--EXCUSED
Mr. Jon Eaton
Mr. Joe Falcone
Mr. Frank (Buddy) Halderman -- Zoom
Mr. Doug Johnson

Staff

Mr. Frank Noll, WWTP Superintendent
Mr. Matt Auman, Public Works Superintendent
Mr. Ralph Stewart, Secretary

Engineer: Jean Ryan via Zoom

MINUTES

*A motion was made by Beigle and seconded by Eaton to approve the minutes from May 6, 2025.
No discussion. Motion carried unanimously.*

ADDITIONS TO AGENDA

NONE

PUBLIC COMMENT/COMMUNICATIONS- ORAL

NONE

COMMUNICATIONS (Written)

Wastewater NPDES Compliance
All numbers are within normal range.

FINANCIALS (Mr. Falcone)

Budget v. Actual April 2025.

A motion was made by Beigle and seconded by Brown to approve the financial report. No discussion, motion carried unanimously.

ENGINEER'S REPORT (Jean Ryan, Barton and Loguidice)

Water:

- Jean reported that they are wrapping up the Bulk Water Loading Station Permit. It should be done this week.
- The Authority will be conducting some Geotechnical work done on Valentine Hill Road for the water main replacement.
 - The Authority needs to take some soil samples and Hillis-Carnes Engineering (Pittsburgh) was the low bidder - \$5880.

Wastewater:

- Consider increasing the fee for industrial users (industrial pre-treatment)
 - The Bellefonte Borough Authority handles all industrial users, even those in Spring/Benner/Walker.
- Generator study proposal is due back this week.
- There was a discussion regarding hiring a staff person to help manage the industrial users. The staff position would likely be part-time.

SEWER REPORT (Superintendent - Frank)

The Superintendent highlighted the details of various projects and repairs completed in May 2025.

Bulk Water sales for May were 470,000 gallons.

The BOD analysis was flagged – DEP was notified

The heavy rain in the past month has caused the need for a lot of extra repairs.

WATER REPORT (Matt)

Details were offered regarding projects and repairs completed in May 2025.

The water is officially turned on at the new elementary school!

52 PA ONE calls in the month of May.

Installed 81 new water meters in the month of May.

Niagara - 276,000 gallons.

OLD BUSINESS

Big Spring Cover – getting an updated cost estimate for a hardshell cover, etc.

- There was a very lengthy discussion regarding this project – the consensus is a soft cover with some nice landscaping might be the best option

Masonry Work at Big Spring – updates

- This project is completed

Tour of UAJA biosolid facility – scheduled for Tuesday, June 10th from 1:00 PM-2:30 PM.

- Participants will meet at the borough building at 12:30 pm and carpool.
- No Authority action is requested.

Tour of Niagara Bottling Plant – scheduled for Tuesday, June 10th at 3:15 PM. No Authority action is requested.

Act 57 Study – Tap Fees for the Corning Line.

Review of current Rules and Regulations. Staff will try to review the regulations and provide markups to the Authority. (IN PROGRESS)

Authority Email Addresses- Email addresses for Authority members have been provided to Authority members. No Authority action is requested.

Bulk Water Billing Memo. No Authority action is requested.

NEW BUSINESS

Daily Water Withdrawal May 2025. No Authority action required.

DISCUSSION

Update on Parkview Homeowner – homeowner agreed to remove the structure and remodel it so it is fully on his property and not on the right-of-way. He had built the structure with no permits, but it seems the situation is going to be fully resolved.

Discussion regarding the Benner Township Water Authority withdrawing from Spring/Benner/Walker

Discussion regarding waterfront project – hoping the project breaks ground in the fall

Jon Eaton will act on the suggestion from Denny McDowell to attend the Spring/Benner/Walker meetings and he will begin attending those meetings.

An authority member discovered that in between State College and Pleasant Gap, near Rockview Prison – the meaning behind the “Village of Peru” – PERU stands for Prison Employee Residential Units. Discussion regarding Rockview State Prison closing.

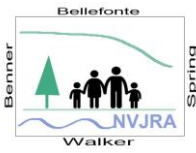
Discussion regarding the issue with sewer lines at “Suds N Bucket” laundromat on W Bishop – the property owner wants the issue resolved as soon as possible because he would like to sell the building, and he cannot with this outstanding issue. Authority members agreed to look more into this and work to resolve this issue expeditiously.

For the waterfront project, it sounds like the developer will possibly start the garage and condo units first, rather than the hotel.

The assistant superintendent position will likely be filled soon, as there are currently 3 applicants for the position.

ADJOURNMENT

Eaton motioned, and Falcone seconded to adjourn tonight's meeting. No discussion. Motion carried. Meeting adjourned at 8:13 pm.



Bellefonte Borough Authority July 1, 2025

THE NITTANY VALLEY JOINT RECREATION AUTHORITY
301 North Spring Street, Suite 200
Bellefonte, PA 16823

June 26, 2025

Bellefonte Borough Water Authority
ATTN: Ralph Stewart
301 North Spring Street, Suite 200
Bellefonte, PA 16823

Dear Bellefonte Water Authority Members,

We are reaching out today on behalf of the Nittany Valley Joint Recreation Authority (NVJRA) as a follow up to informal conversation regarding potential support for the Kepler Pool project.

The Nittany Valley Joint Recreation Authority (NVJRA) is a municipal authority with appointed representatives from Bellefonte Borough, Benner Township, Spring Township, and Walker Township. The primary NVJRA project is the refurbishment of Kepler Pool which has been offline since Fall 2020 due to structural issues. The NVJRA is well on its way to securing a major grant through PA Department of Conservation and Natural Resources (National Parks Service, Land and Water Conservation Fund pass through) in the amount of \$1,475,826 to rebuild Kepler Pool. The NVJRA has been informed by DCNR that a grant agreement is anticipated in the next month or two with grant agreement dates of June 10, 2025 to June 9, 2028. The award is a dollar-for-dollar match with \$938,800 of the match secured. There is a shortfall of \$536,026. Attached is a copy of the full scope of grant and other fund-raising activities.

To close the gap, the NVJRA continues to solicit donations and apply for additional grants. The additional match must be secured before breaking ground on the project. The challenge is that there is a tight timeline to secure the remaining match as several of the grants that provide for match end on June 30, 2026. The NVJRA must be positioned to start the project soon after the award is received in order to incur the costs necessary to expand the funds for the grants that end June 30, 2026. The project is shovel ready except for the outstanding match funds.

We understand that the Bellefonte Water Authority has received a significant grant from the Department of Community and Economic Development for the Big Spring Cover and that project costs may be below the original estimates. We also understand that there may be opportunity to amend the scope of the grant and redirect excess funds to another project which would benefit Bellefonte Borough and the community. Please consider this formal request to consider the Kepler Pool project as those discussions occur.

The reopening of Kepler Pool is a critical investment in the health and well-being of the region's most vulnerable residents—including low-income families, children, seniors, and individuals with disabilities—many of whom face barriers to transportation, affordable healthcare, and safe recreation. In an area marked by economic hardship and rural isolation, the pool will offer low-cost or free access to summer programs, swim lessons, therapeutic exercise, and social interaction—fostering both physical health and mental resilience. For children from low-income households, the pool provides a safe, structured environment during summer months when they are most at risk of learning loss, hunger, and lack of supervision. For seniors and those with mobility challenges, it offers a rare space for low-impact physical activity that can prevent illness and support

Bellefonte Borough Water Authority
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independence. Reopening Kepler Pool will not only revitalize a beloved community asset but also address significant social inequities by ensuring access to wellness and recreation for all.

The impact of closing Kepler Pool has deprived the region of a valuable outlet for physical activity, relaxation, and socialization. The Pool not only provides recreational benefits, it can also be used to improve the health and wellness of residents in the Nittany Valley Region. Without a public community pool, individuals often migrate to unsafe and unguarded waters which can lead to unforeseen and unpredictable circumstances which can be life threatening or fatal as the Bellefonte community has experienced in its history.

Moreover, the Centre County YMCA has experienced a notable decline in its summer offerings owing to the absence of an outdoor swimming venue. Both competitive and instructional swimming programs have witnessed dwindling participation numbers. Kepler Pool's convenient location, ample parking, and excellent observation facilities used to serve as additional incentives for parents to register their children for swimming lessons and water safety courses. Consequently, the community is now grappling with delayed or entirely lacking fundamental water safety skills. Coupled with the dangerous and unguarded swimming spots in the vicinity, this situation poses a hazardous and dangerous scenario.

The NVJRA is so close to bringing this project to fruition. We fear that if the match cannot be met in a timely manner, the Kepler Pool era will go down in history and may never be resurrected unless private funding is secured in its entirety.

We are happy to provide additional information and respond to any questions the Bellefonte Water Authority may have. We thank you for your time and consideration in supporting this project and look forward to hearing from you soon.

Sincerely,

Mike Musser, Chair, NVJRA
president.nvri@gmail.com
814-933-8967

Cindy Kunes, Co-Chair, NVJRA
cakunes@gmail.com
814-383-008

Attachment: NVJRA Grant and Fund-Raising Overview

NVJRA Grant and Fund-Raising Overview as of June 2025			
Source	Status	Amount	Match
PA DCNR/LWCF	Award anticipated by 8/30/25; 6/10/25 - 6/09/28	\$ 1,475,826.00	
Centre County ARPA	Contract ends 6/30/26		\$ 110,000.00
PA DCED Local Share Account	Contract ends 6/30/26		\$ 500,000.00
Bellefonte Borough	Funds received (based on pool usage data from YMCA)		\$ 140,000.00
Benner Township	Funds received (based on pool usage data from YMCA)		\$ 50,000.00
Spring Township	Funds received (based on pool usage data from YMCA)		\$ 102,300.00
Walker Township	Funds received (based on pool usage data from YMCA)		\$ 37,500.00
		\$ 1,475,826.00	\$ 939,800.00
	Gap which must be closed before PA DCNR/LWCF award*		\$ 536,026.00
Additional Activity			
PA DCED Local Share Account	Pending review - late 2025 or early 2026		\$ 317,314.00
PA DCED Neighborhood Assistance Program - 2025	Pending review - late 2025		\$ 5,000.00
PA DCED Greenways Trails & Recreation - 2023	Contract ends 6/20/26; supports bathhouse renovations	\$ 184,145.00	
PA DCED Neighborhood Assistance Program - 2024	Completed fencing around perimeter for safety and security	\$ 75,000.00	
PA DCED Greenways Trails & Recreation - 2025	Did not receive funding; will apply in future round		
PA DCNR/LWCF 2022	Approved by DCNR but not LWCF due to federal funding constraints; instructed to apply in future round which was in 2024		
PA DCNR/LWCF 2018	Received award; bids received after COVID were three times available budget; required to relinquish award to be eligible to receive funding in future rounds		
Lowe's Community Project Grant	Did not receive funding; will apply in future round		
Hamer Foundation	Preliminary application resulted in project not applicable		
Ronald Friedman Foundation	Did not receive funding		
PA Redevelopment Assistance Capital Program	Potential to apply for future phases of project		
Centre Foundation/Centre Gives	Plans to apply n March 2026		
Happy Valley Adventure Bureau Tourism Grant	Plans to apply in Winter 2026 or 2027		
Community donations to date	Match on 2024 Greenways Trails for bathhouse	\$ 37,371.00	
Continued solicitation for community donations			
Potential future capital campaign for amenities			
*Gap is a result of 2025 GTRP grant application not funded and 2023 GTRP grant scope for bathhouse not applicable to pool			
6.26.25 cak			



FW: Avid & Candlewood Suites 01-24-005

From Matt Auman <mauman@bellevillepa.gov>

Date Tue 6/17/2025 7:09 AM

To Alyssa Doherty <adoherty@bellevillepa.gov>

 1 attachment (144 KB)

AVID HOTEL -- COR NO. 15 -- PUBLIC WATERMAIN ADDITIONAL TRENCH INSPECTION COSTS COVERSHEET 4-15-25.pdf;

Hi Alyssa,

I would like to have this information included in the Authority packet for next month and Armond would like to address the Authority with his request.

Thanks

Matt

From: Armond Aquilino <armond@kcande.net>

Sent: Monday, June 16, 2025 3:04 PM

To: Matt Auman <mauman@bellevillepa.gov>

Cc: Andrew Snader <andrews@weaverco.com>; Matthew Rhodes <matt@kcande.net>; 21sai9703@gmail.com; Adam Rhodes <adam@kcande.net>

Subject: Re: Avid & Candlewood Suites 01-24-005

Hi Matt:

I would like to be placed on the Belleville Water Authority agenda (7/2/25) to discuss the potential reimbursement or discount of water service fees associated with the Avid / Candlewood Hotel due to the expense to open up and prove a section of the 8" ductile watermain pipe bedding work was indeed installed correctly near the existing fire hydrant on Amberleigh Lane.

Our company indicated to you we did provide stone bedding prior to completing the roadway backfill for the public water [main.at](#) the end of construction on the final day of the main extension work. The Authority's representatives never asked for any photos depicting that final work or to verify any of our prior backfill work.

As discussed during our recent conference call, we feel this extra inspection (performed 4/7/25) and approved by you (4/11/25) was not needed since all other public main work completed until the final day of work by our crew was acceptable to the Authority's representatives who did periodically stop by to observe our work. Another reason we feel this extra inspection was not in our control is the fact the Authority never executed a public watermain extension agreement with the developer's that would normally require or stipulate a full-time or part time inspection (at the cost of the developer) to assure "all" work a site contractor performs is as per the Authority's regulations and requirements.

We understand the Water Authority's Engineer was not involved in the project plan reviews and was not part of the pre-construction meeting when we were told that no extension agreement was in place and a full time inspector would not be required by the Authority. It was the Authority's staff decision not to have a full time inspector and we have now demonstrated why it is just as important to protect a contractor from unneeded

Bellefonte Borough Authority July 1, 2025

inspection costs to "prove" work was "actually" installed correctly as it is to the Authority since the infrastructure will be dedicated to the Authority after completion..

The additional proof of construction work cost to the Hotel developers is \$ 4,068.24 as shown within our attached COR No. 15 and is based on our 2025 Rates. The total time to perform the verification of work was (6) hours of roadway excavation, re-backfill and compaction of the stone / asphalt by our equipment, operators and laborers. We did not need any additional materials for the roadway backfill.

In closing; hopefully, the Authority will agree with our position and can facilitate a discount or refund to the developers that matches our change order costs, so we can be paid in kind by the developers for our incurred required inspection time.

Thank you,

Armond Aquilino

Estimator / Project Manager / Business Development

KEYSTONE CONSTRUCTION AND EARTHWORK, LLC

283 Reese Road State College, PA 16801

Cell: 814-880-9317 Office: 814-308-8205 Fax: 814-308-8203

E-Mail: armond@kcande.net

Web: keystoneconstructionandearthwork.com

On Wed, Jun 11, 2025 at 1:48 PM Matt Auman <mauman@bellefontepa.gov> wrote:

Hello,

The Authority meeting is scheduled for July 1st at 6 pm, if you want your request be on the agenda please let me know.

Thanks
Matt

From: Armond Aquilino <armond@kcande.net>

Sent: Tuesday, June 10, 2025 7:49 AM

To: Matt Auman <mauman@bellefontepa.gov>

Cc: Andrew Snader <andrews@weaverco.com>

Subject: Re: Avid & Candlewood Suites 01-24-005

Hi Matt / Andy:

I am confirming 1:00 today works with me.

Thanks,

Armond Aquilino

Estimator / Project Manager / Business Development

KEYSTONE CONSTRUCTION AND EARTHWORK, LLC

283 Reese Road State College, PA 16801

Cell: 814-880-9317 Office: 814-308-8205 Fax: 814-308-8203

Bellefonte Borough Authority July 1, 2025**E-Mail:** armond@kcande.net**Web:** keystoneconstructionandearthwork.com

On Tue, Jun 10, 2025 at 7:02 AM Matt Auman <mauman@bellefontepa.gov> wrote:

Hi Andy,

I am available today at 1.

Thanks

Matt

From: Andrew Snader <andrews@weaverco.com>

Sent: Monday, June 9, 2025 9:46 AM

To: Matt Auman <mauman@bellefontepa.gov>

Cc: Armond Aquilino <armond@kcande.net>; Andrew Snader <andrews@weaverco.com>

Subject: Re: Avid & Candlewood Suites 01-24-005

My morning if full tomorrow, would 1 PM work for both of you?



ANDY SNADER

C: 717.468.6499

O: 717.351.5358 x125

4873 Division Hwy, East Earl, PA 17519

relyonweaver.com

From: Matt Auman <mauman@bellefontepa.gov>

Sent: Monday, June 9, 2025 9:42 AM

To: Andrew Snader <andrews@weaverco.com>

Cc: Armond Aquilino <armond@kcande.net>

Subject: RE: Avid & Candlewood Suites 01-24-005

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Hi Andy,

I am not available the rest of the day, my schedule is open tomorrow. Let me know some times that work for you.

Thanks

Matt

From: Andrew Snader <andrews@weaverco.com>
Sent: Monday, June 9, 2025 9:07 AM
To: Matt Auman <mauman@bellefontepa.gov>
Cc: Andrew Snader <andrews@weaverco.com>; Armond Aquilino <armond@kcande.net>
Subject: Avid & Candlewood Suites 01-24-005

Good morning, Matt, is there a time today that you could catch up with Armond and myself?



ANDY SNADER

C: 717.468.6499

O: 717.351.5358 x125

4873 Division Hwy, East Earl, PA 17519

relyonweaver.com



**KEYSTONE CONSTRUCTION
& EARTHWORK, LLC**
283 REESE ROAD
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PHONE (814) 308-8205
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HIC#PA159065

WWW.KEYSTONECONSTRUCTIONANDEARTHWORK.NET

CHANGE ORDER REQUEST (COR) NO. 15

DATE: 4/15/25
TO: WEAVER COMMERCIAL (GENERAL CONTRACTOR)
BY: KEYSTONE CONSTRUCTION & EARTHWORK, LLC (SUB-CONTRACTOR)
PROJ: AVID / CANDLEWOOD HOTEL, BELLEFONTE, PA

RE: ADDITIONAL PUBLIC WATERMAIN PIPE BEDDING INSPECTION COSTS -- EXCAVATION / RE-BACKFILL

COR WORK DESCRIPTION

We are providing this COR in association to the request by Bellefonte Borough Water Authority (Matt Auman) to expose a portion (15 LF) of the recently completed public watermain located within the street in order to verify the proper stone pipe bedding was incorporated into the trench work above bedrock.

During the final sections of pipe installation within the roadway the Authority's inspector was at the site periodically that day, but was not there when the section of work in question occurred. The GC Proj. Manager (Andy Snader) was contacted by the Water Authority after the roadway / trench was backfilled (Matt Auman, email 3/27/25) about a "potential lack of stone bedding under the pipe". This was only speculation by the Water Authority's staff that the bedding work was not performed.

Based on the situation KCE provided a few photos of the section of work pipe install near the limits of the work in question that showed proper pipe stone bedding was provided; however, the Water Authority would not accept the "verbal representation" that all pipe installed that day included proper stone bedding. KCE was under no obligation to photograph our work for any inspection purposes.

As required by the Water Authority, the section of pipe work in question was excavated (4/7/25) and upon inspection by the Water Authority, they determined that the pipe was bedded appropriately. The work was accepted by the Water Authority, as per email confirmation received (4/11/25).

We believe the re-inspection of our work was required due to the Water Authority's lack of "full time" inspection to monitor all work associated with a public watermain extension. In addition, there was no formal agreement between the Owner / Developer and the Water Authority regarding the inspection work as is normal for public watermain infrastructure.

Due to the Water Authority's "speculation", KCE incurred inspection costs to excavate, verify the pipe stone bedding and then backfill the trench / roadway. As per the contract, all inspection costs are the responsibility of the Owner / GC.

COR WORK DESCRIPTION

LABOR	QUANT	TOTAL HOURS	HR RATES COSTS	RATE / COST TOTALS
Operator / Foreman	1	6.0	\$ 95.00	\$ 570.00
Labor No. 1	1	6.0	\$ 75.00	\$ 450.00
Labor No. 2	1	6.0	\$ 75.00	\$ 450.00
Operator / Labor No. 1	1	6.0	\$ 85.00	\$ 510.00
Operator / Labor No. 2	1	6.0	\$ 85.00	\$ 510.00
Sub-Total				\$ 2,490.00
TAX (N/A)				

			Belleville Borough Authority July 1, 2025	
EQUIPMENT / RENTALS				
Excavator w/ Compactor	1	6.0	\$ 140.00	\$ 840.00
Track Skid Steer	1	2.0	\$ 105.00	\$ 210.00
Vibraplate Compactor	1	1.0	\$ 90.00	\$ 90.00
Sub-Total				\$ 1,140.00
TAX (6%)				\$ 68.40
MATERIALS				
Reuse of trench material				\$ 0.00
Reuse of asphalt cold patch				\$ 0.00
Sub-Total				\$ 0.00
TAX (6%)				\$ 0.00
COR TOTAL				\$ 3,698.40

Total COR Work: \$ 3,698.40
Total COR Markup (10%): \$ 369.84
 Total COR Cost: \$ 4,068.24

BUDGET VS ACTUAL

Borough of Bellefonte

For 5/31/2025

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	Y-T-D Actual	Annual Budget	Variance	Percent of Budget
WATER				
Revenues				
341.010.000 INTEREST INCOME - CKG, SVGS	3,139.87	250.00	(2,889.87)	(1,255.95) <i>over</i>
341.020.000 INTEREST-SWEEP ACCT	18,351.90	48,000.00	29,648.10	(38.23)
342.401.000 RENTAL INCOME-SHENTEL	3,000.00	6,000.00	3,000.00	(50.00)
378.000.000 WATER COLLECTIONS REVENUE	679,503.78	1,519,545.00	840,041.22	(44.72)
378.001.000 SALE OF BULK WATER REVENUE	3,559.50	59,000.00	55,440.50	(6.03)
378.002.000 CW LINE CAPITAL PROJECTS REV	7,545.34	13,700.00	6,154.66	(55.08)
378.122.000 BULK WATER REV-NIAGARA-HOWARD PLANT	32,992.58	68,000.00	35,007.42	(48.52)
378.700.000 BULK WATER REVENUE-MILESBURG	14,575.80	45,000.00	30,424.20	(32.39)
378.901.000 METER/PIT/ETC SALES REVENUE	438.26	3,000.00	2,561.74	(14.61)
378.903.000 VACANCY APPLICATION REVENUE	120.00	250.00	130.00	(48.00)
378.904.000 WATER ON/OFF FEE REVENUE	270.00	120.00	(150.00)	(225.00) <i>over</i>
378.905.000 SERVICES PROVIDED BY WATER DEP	185.82	400.00	214.18	(46.46)
378.906.000 POSTING FEE REVENUE	120.00	400.00	280.00	(30.00)
383.400.000 CAPACITY FEES & ASSESSMENT REV	7,519.16	15,180.00	7,660.84	(49.53)
389.000.000 MISCELLANEOUS REVENUE	1,550.59	50.00	(1,500.59)	(3,101.18) <i>over - sale of scrap metal</i>
389.003.000 FEE REVENUE	40.00	20.00	(20.00)	(200.00) <i>over</i>
391.100.000 SALE OF FIXED ASSETS REVENUE	0.00	1,000.00	1,000.00	0.00
392.095.000 TRANSFER IN FROM CAPITAL PROJ	0.00	651,000.00	651,000.00	0.00 <i>bud. # only</i>
Total Revenues	772,912.60	2,430,915.00	1,658,002.40	(31.80)

Expenses

448.112.000 SALARY EXPENSE	191,597.82	428,000.00	236,402.18	44.77
448.180.000 OVERTIME WAGES EXPENSE	7,639.58	30,000.00	22,360.42	25.47
448.190.000 OTHER BENEFITS EXPENSE	50.00	0.00	(50.00)	0.00 <i>over - not bud.</i>
448.191.000 WORKBOOTS EXPENSE	2,800.00	2,400.00	(400.00)	116.67 <i>over</i>
448.192.000 SOCIAL SECURITY EXPENSE	14,820.48	35,000.00	20,179.52	42.34
448.193.000 ENROLLMENT/ADMIN EXP-RETIREMEN	139.20	175.00	35.80	79.54
448.196.000 HEALTH INSURANCE EXPENSE	30,326.88	35,000.00	4,673.12	86.65
448.197.000 RETIREMENT EXPENSE	13,636.28	38,000.00	24,363.72	35.88
448.198.000 HEALTH CARE EXPENSE - IN HOUSE	2,805.48	6,500.00	3,694.52	43.16
448.199.000 LIFE INSURANCE EXPENSE	445.33	920.00	474.67	48.41
448.210.000 OFFICE SUPPLIES EXPENSE	164.69	900.00	735.31	18.30
448.215.000 POSTAGE EXPENSE	2,216.67	2,600.00	383.33	85.26
448.221.000 CHEMICAL EXPENSE	9,255.00	27,000.00	17,745.00	34.28
448.231.000 FUEL EXPENSE	3,714.45	12,750.00	9,035.55	29.13
448.238.000 CLOTHING & UNIFORM EXPENSE	1,011.76	3,100.00	2,088.24	32.64
448.246.000 REPAIR/MAINT/MISC SUPP EXP	17,904.24	27,500.00	9,595.76	65.11
448.249.000 COMPUTER SOFTWARE EXPENSE	4,687.54	11,750.00	7,062.46	39.89
448.251.000 VEHICLE & EQUIP MAINT EXP	4,000.34	28,500.00	24,499.66	14.04
448.253.000 REPAIRS TO WATER SYSTEM EXP	10,648.73	70,000.00	59,351.27	15.21
448.254.000 PUMP MAINT/REPAIRS EXPENSE	864.50	3,500.00	2,635.50	24.70
448.255.000 WATER METER MAINT/REPLACE EXP	5,292.36	340,000.00	334,707.64	1.56

BUDGET VS ACTUAL

Borough of Bellefonte

For 5/31/2025

	Y-T-D Actual	Annual Budget	Variance	Percent of Budget
WATER				
448.260.000 TOOLS & MINOR EQUIPMENT EXP	49.97	5,000.00	4,950.03	1.00
448.311.000 AUDIT EXPENSE	0.00	7,100.00	7,100.00	0.00
448.313.000 ENGINEERING EXPENSE	15,347.13	35,000.00	19,652.87	43.85
448.314.000 LEGAL EXPENSE	0.00	4,000.00	4,000.00	0.00
448.316.000 WATER TESTING EXPENSE	2,156.30	11,000.00	8,843.70	19.60
448.317.000 DATA PROCESSING EXPENSE	673.41	1,700.00	1,026.59	39.61
448.318.000 SERVICE AGREEMENT EXPENSE	0.00	3,600.00	3,600.00	0.00
448.319.000 PEST CONTROL EXPENSE	368.00	1,200.00	832.00	30.67
448.320.000 IT SERVICES EXPENSE	1,443.88	5,000.00	3,556.12	28.88
448.321.000 TELEPHONE EXPENSE	1,827.56	5,300.00	3,472.44	34.48
448.324.000 CELL PHONE/IPAD EXPENSE	1,281.20	3,900.00	2,618.80	32.85
448.325.000 INTERNET EXPENSE	2,891.98	7,750.00	4,858.02	37.32
448.329.000 SCADA SYSTEM EXPENSE	0.00	9,500.00	9,500.00	0.00
448.331.000 TRAVEL EXPENSE	0.00	50.00	50.00	0.00
448.341.000 ADVERTISING EXPENSE	47.96	350.00	302.04	13.70
448.342.000 PRINTING EXPENSE	65.63	500.00	434.37	13.13
448.344.000 COPY EXPENSE	98.88	275.00	176.12	35.96
448.351.000 COMMERCIAL INS EXPENSE	20,905.68	41,000.00	20,094.32	50.99
448.354.000 WORKERS COMP INS EXPENSE	6,000.00	17,750.00	11,750.00	33.80
448.361.000 ELECTRICITY EXPENSE	102,408.92	218,500.00	116,091.08	46.87
448.362.000 HEATING OIL EXP - PUMP HOUSE	1,081.59	3,500.00	2,418.41	30.90
448.375.000 PREVENTATIVE MAINTENANCE EXP	0.00	20,000.00	20,000.00	0.00
448.376.000 MAINT OF PUMP HOUSES EXPENSE	265.20	3,000.00	2,734.80	8.84
448.377.000 MAINTENANCE OF RESERVOIR EXP	1,415.00	21,000.00	19,585.00	6.74
448.378.000 MAINT OF STREETS EXPENSE	0.00	35,000.00	35,000.00	0.00
448.384.000 EQUIPMENT RENTAL EXPENSE	0.00	1,000.00	1,000.00	0.00
448.420.000 DUES/MEMBERSHIP/SUB EXP	100.00	1,000.00	900.00	10.00
448.450.000 CONTRACTED SERVICES EXPENSE	20,010.50	15,500.00	(4,510.50)	129.10
448.460.000 TRAINING/MEETING EXPENSE	4,160.00	4,200.00	40.00	99.05
448.470.000 CDL/OTHER LICENSE EXPENSE	0.00	225.00	225.00	0.00
448.471.000 DRUG TESTING EXPENSE	0.00	350.00	350.00	0.00
448.473.000 OPERATORS LICENSE FEE EXP	0.00	120.00	120.00	0.00
448.474.000 REPAIRS TO PERSONAL PROP EXP	0.00	1,000.00	1,000.00	0.00
448.475.000 OTHER FEES EXPENSE	2,600.53	11,000.00	8,399.47	23.64
448.478.000 SALES TAX EXPENSE	24.56	250.00	225.44	9.82
448.700.000 CAPITAL EXPENDITURES	19,643.78	402,000.00	382,356.22	4.89
448.701.000 CAPITAL EXPENDITURE-WATER LINE	0.00	315,000.00	315,000.00	0.00
492.001.000 TRANSFER TO GENERAL FUND	50,000.00	100,000.00	50,000.00	50.00
492.095.000 TRANSFER TO CAPITAL PROJECTS	0.00	14,700.00	14,700.00	0.00
Total Expenses	578,888.99	2,430,915.00	1,852,026.01	23.81
Net Income	\$ 194,023.61 \$	0.00 \$	(194,023.61) \$	0.00

increased

over-repairs for
big spring
coring

dm

WATER FUND

Cash Balances @ 5/31/25

checking	\$632,821.64
sweep account	\$1,082,814.26

Balance in Capital Projects Fund @ 5/31/25

water	\$1,263,694.66
corning water	\$159,550.00

BUDGET VS ACTUAL

Borough of Bellefonte

For 5/31/2025

SEWER	Y-T-D Actual	Annual Budget	Variance	Percent of Budget
Revenues				
341.005.000 INTEREST INCOME-MONEY MARKET	23,401.62	47,000.00	23,598.38	(49.79)
341.010.000 INTEREST INCOME - CKG, SVGS	2,639.61	175.00	(2,464.61)	(1,508.35) <i>over</i>
364.110.000 SEWER COLLECTION REVENUE	828,525.53	1,847,000.00	1,018,474.47	(44.86)
364.111.000 SEWER CAPITAL IMPROVEMENTS REV	0.00	15,000.00	15,000.00	0.00
364.171.000 SURCHARGE REVENUE	495.08	1,200.00	704.92	(41.26)
364.172.000 PRETREATMENT REVENUE	113.10	2,800.00	2,686.90	(4.04)
364.174.000 WASTE DISPOSAL REVENUE	28,173.51	84,000.00	55,826.49	(33.54)
364.180.000 BULK WATER LOADS REVENUE	560.00	2,500.00	1,940.00	(22.40)
364.901.000 BULK HAULING PERMIT REVENUE	0.00	120.00	120.00	0.00
364.904.000 CAPITAL IMPROVEMENTS-SBW	62,444.39	241,500.00	179,055.61	(25.86)
364.905.000 OPERATING SPRING,BENNER,WALKER	948,910.37	1,763,200.00	814,289.63	(53.82)
399.001.000 USE OF RESERVES	0.00	47,685.00	47,685.00	0.00 <i>bud. # only</i>
Total Revenues	1,895,263.21	4,052,180.00	2,156,916.79	(46.77)

Expenses

429.112.000 SALARY EXPENSE-FACILITY	284,810.54	782,500.00	497,689.46	36.40
429.112.A00 SALARY EXPENSE-SYSTEM	36,556.80	57,500.00	20,943.20	63.58
429.180.000 OVERTIME WAGES EXPENSE-FAC	14,893.66	35,000.00	20,106.34	42.55
429.180.A00 OVERTIME WAGES EXPENSE-SYS	637.86	1,500.00	862.14	42.52
429.191.000 WORKBOOTS EXPENSE	4,317.81	4,800.00	482.19	89.95
429.192.000 SOCIAL SECURITY EXPENSE-FAC	22,100.87	62,500.00	40,399.13	35.36
429.192.A00 SOCIAL SECURITY EXPENSE-SYS	2,764.40	4,500.00	1,735.60	61.43
429.193.000 ENROLLMENT/ADMIN EXP-RETIREMEN	225.60	210.00	(15.60)	107.43 <i>over</i>
429.194.000 UNEMPLOYMENT COMP EXPENSE	584.00	0.00	(584.00)	0.00 <i>over</i>
429.196.000 HEALTH INSURANCE EXPENSE-FAC	71,262.60	205,000.00	133,737.40	34.76
429.196.A00 HEALTH INS EXPENSE-SYSTEM	5,091.48	7,750.00	2,658.52	65.70
429.197.000 RETIREMENT EXPENSE-FAC	7,156.10	75,000.00	67,843.90	9.54
429.197.A00 RETIREMENT EXPENSE-SYSTEM	0.00	5,900.00	5,900.00	0.00
429.198.000 HEALTH CARE EXPENSE - IN HOUSE	712.43	10,150.00	9,437.57	7.02
429.199.000 LIFE INSURANCE EXPENSE-FAC	690.54	1,950.00	1,259.46	35.41
429.199.A00 LIFE INS EXPENSE-SYSTEM	78.72	125.00	46.28	62.98
429.210.000 OFFICE SUPPLIES EXP - FACILITY	75.00	1,100.00	1,025.00	6.82
429.210.A00 OFFICE SUPPLIES EXPENSE - SYSTEM	141.52	150.00	8.48	94.35
429.215.000 POSTAGE EXPENSE - FACILITY	135.08	200.00	64.92	67.54
429.215.A00 POSTAGE EXPENSE-SYSTEM	1,331.58	1,500.00	168.42	88.77
429.217.000 SHIPPING FEES EXP-FAC	137.18	150.00	12.82	91.45
429.217.A00 SHIPPING FEES EXP-SYS	0.00	25.00	25.00	0.00
429.221.000 CHEMICAL EXPENSE	67,642.91	245,000.00	177,357.09	27.61
429.225.000 LABORATORY SUPPLIES EXPENSE	2,065.48	7,000.00	4,934.52	29.51
429.231.000 FUEL EXPENSE - FACILITY	4,488.12	7,000.00	2,511.88	64.12
429.231.A00 FUEL EXPENSE - SYSTEM	89.87	1,500.00	1,410.13	5.99
429.238.000 CLOTHING & UNIFORM EXPENSE	950.36	4,750.00	3,799.64	20.01

BUDGET VS ACTUAL

Borough of Bellefonte

For 5/31/2025

Bellefonte Borough Authority July 1, 2025

SEWER	Y-T-D Actual	Annual Budget	Variance	Percent of Budget
429.248.000 COMPUTER SOFTWARE EXPENSE-FAC	570.38	1,200.00	629.62	47.53
429.248.A00 COMPUTER SOFTWARE EXPENSE-SYS	4,387.20	8,400.00	4,012.80	52.23
429.249.000 MATERIALS & SUPPLIES EXPENSE - FAC	1,260.81	2,000.00	739.19	63.04
429.249.A00 MATERIALS & SUPPLIES EXP - SYSTEM	1,387.74	3,000.00	1,612.26	46.26
429.251.A00 VEHICLE MAINT EXP - SYSTEM	308.71	1,000.00	691.29	30.87
429.252.000 EQUIPMENT MAINT EXP - FAC	114,472.64	190,000.00	75,527.36	60.25
429.252.A00 EQUIPMENT MAINT EXP - SYS	57,662.28	10,000.00	(47,662.28)	576.62
429.257.000 FACILITY MAINTENANCE EXPENSE	11,523.58	31,000.00	19,476.42	37.17
429.258.A00 SYSTEM MAINTENANCE EXPENSE	319,350.50	30,000.00	(289,350.50)	1,064.50
429.260.000 MINOR EQUIPMENT EXPENSE-FAC	572.31	4,000.00	3,427.69	14.31
429.260.A00 MINOR EQUIPMENT EXP - SYSTEM	1,269.27	1,500.00	230.73	84.62
429.276.000 SERVICE CONTRACT EXP - FAC	9,074.17	34,000.00	24,925.83	26.69
429.310.A00 I & J EXPENSE - SYSTEM	0.00	30,000.00	30,000.00	0.00
429.311.000 AUDIT EXPENSE	0.00	8,800.00	8,800.00	0.00
429.313.000 ENGINEERING EXPENSE - FACILITY	36,564.10	100,000.00	63,435.90	36.56
429.313.A00 ENGINEERING EXPENSE - SYSTEM	0.00	500.00	500.00	0.00
429.314.000 LEGAL EXPENSE-FACILITY	217.00	3,000.00	2,783.00	7.23
429.314.A00 LEGAL EXPENSE - SYSTEM	865.50	3,100.00	2,234.50	27.92
429.316.000 ANALYTICAL TESTING EXP	13,832.18	47,500.00	33,667.82	29.12
429.317.000 DATA PROCESSING EXPENSE	397.67	1,475.00	1,077.33	26.96
429.319.000 PEST CONTROL EXPENSE	176.00	575.00	399.00	30.61
429.320.000 IT SERVICES EXPENSE-FAC	2,091.87	9,500.00	7,408.13	22.02
429.320.A00 IT SERVICES EXPENSE-SYSTEM	0.00	250.00	250.00	0.00
429.321.000 TELEPHONE EXPENSE-FACILITY	480.34	2,000.00	1,519.66	24.02
429.321.A00 TELEPHONE EXPENSE-SYSTEM	320.25	1,750.00	1,429.75	18.30
429.324.000 CELL PHONE/TABLET EXPENSE-FACILITY	629.72	3,000.00	2,370.28	20.99
429.324.A00 CELL PHONE EXPENSE - SYSTEM	0.00	180.00	180.00	0.00
429.325.000 INTERNET EXPENSE	850.17	2,250.00	1,399.83	37.79
429.329.000 SCADA SYSTEM MAINT EXP	809.09	0.00	(809.09)	0.00
429.331.000 TRAVEL EXPENSES-FACILITY	0.00	25.00	25.00	0.00
429.331.A00 TRAVEL EXPENSES-SYSTEM	0.00	25.00	25.00	0.00
429.341.000 ADVERTISING EXPENSE	324.06	500.00	175.94	64.81
429.342.000 PRINTING EXPENSE - FACILITY	113.47	200.00	86.53	56.74
429.342.A00 PRINTING EXPENSE - SYSTEM	0.00	300.00	300.00	0.00
429.344.000 COPY EXPENSE-FACILITY	0.00	300.00	300.00	0.00
429.344.A00 COPY EXPENSE - SYSTEM	0.00	100.00	100.00	0.00
429.350.000 INSURANCE EXPENSE	0.00	2,300.00	2,300.00	0.00
429.351.000 COMMERCIAL INSURANCE EXPENSE	11,000.00	66,000.00	55,000.00	16.67
429.354.000 WORKERS COMP INS EXP-FACILITY	16,890.00	31,200.00	14,310.00	54.13
429.354.A00 WORKER'S COMP INS EXP-SYSTEM	2,250.00	2,250.00	0.00	100.00
429.361.000 ELECTRICITY EXPENSE	122,938.05	338,750.00	215,811.95	36.29
429.362.000 NATURAL GAS EXPENSE	10,143.42	10,500.00	356.58	96.60
429.374.000 COPIER RENTAL/MAINT EXP	550.00	1,400.00	850.00	39.29
429.378.A00 MAINT OF STREETS EXP - SYSTEM	203.00	18,000.00	17,797.00	1.13
429.384.000 EQUIPMENT RENTAL EXP-FACILITY	0.00	2,500.00	2,500.00	0.00
429.384.A00 EQUIPMENT RENTAL EXP-SYSTEM	0.00	500.00	500.00	0.00
429.399.000 LEASE PAYMENT EXP-FAC	5,502.35	13,205.00	7,702.65	41.67

*over - repairs to sewer
vac truck*

over - lining

over

done

BUDGET VS ACTUAL
Borough of Bellefonte
For 5/31/2025

mm
Page: 3

	Y-T-D Actual	Annual Budget	Variance	Percent of Budget
SEWER				
429.420.000 DUES/ MEMBERSHIPS/SUB EXP-FAC	100.00	550.00	450.00	18.18
429.420.A00 SUBSCRIPTION EXP-SYSTEM	0.00	30.00	30.00	0.00
429.450.000 CONTRACTED SERVICES EXP - FAC	539.74	3,000.00	2,460.26	17.99
429.450.A00 CONTRACTED SERVICES EXP - SYSTEM	0.00	15,000.00	15,000.00	0.00
429.460.000 TRAINING EXPENSE	830.00	17,000.00	16,170.00	4.88
429.469.000 BIOSOLIDS RECYCLING EXPENSE	34,756.89	71,000.00	36,243.11	48.95
429.470.000 CDL/OTHER LICENSE EXPENSE	85.00	1,500.00	1,415.00	5.67
429.471.000 DRUG TESTING EXPENSE	0.00	200.00	200.00	0.00
429.472.000 PERMIT FEES EXPENSE	3,750.00	4,000.00	250.00	93.75
429.473.000 OPERATORS LICENSE EXP-FAC	450.00	1,000.00	550.00	45.00
429.473.A00 OPERATORS LICENSE EXP-SYS	120.00	180.00	60.00	66.67
429.475.A00 REPAIRS TO PERSONAL PROP EXP-SYS	0.00	2,000.00	2,000.00	0.00
429.476.000 OTHER FEES EXPENSE	146.53	1,100.00	953.47	13.32
429.480.000 MISCELLANEOUS EXPENSE-FACILITY	42,535.47	0.00	(42,535.47)	0.00
429.700.C00 CAPITAL EXPENDITURES - FACILITY	19,756.40	575,000.00	555,243.60	3.44
429.905.000 MISCELLANEOUS EXPENSE-FAC	0.00	50.00	50.00	0.00
472.403.A00 PENN WORKS LOAN EXP - PRINCIPAL	137612.63	332,205.00	332,205.00	0.00
472.404.A00 PENN WORKS LOAN EXP - INTEREST	7,049.12	14,985.00	7,935.88	47.04
472.405.A00 RELIANCE LOAN EXP - PRINCIPAL	25947.70	62,455.00	62,455.00	0.00
472.406.A00 RELIANCE LOAN EXP - INTEREST	2,532.40	5,900.00	3,367.60	42.92
472.411.A00 NORTHWEST LOAN #3892 PRINCIPAL	30,942.79	175,130.00	175,130.00	0.00
472.412.A00 NORTHWEST LOAN #3892 INTEREST	0.00	73,000.00	42,057.21	42.39
475.000.A00 TRUSTEE FEE EXPENSE	0.00	1,100.00	1,100.00	0.00
492.001.B00 TRANSFER TO GENERAL FUND	35,000.00	140,000.00	105,000.00	25.00
492.095.B00 TRANSFER TO CAPITAL PROJ FUND	15,000.00	15,000.00	0.00	100.00
Total Expenses	1,471,522.68	4,052,180.00	2,580,657.32	36.31
Net Income	\$ 423,740.53 \$	0.00 \$	(423,740.53) \$	0.00

net income

lm

SEWER FUND

Cash Balances @ 5/31/25

checking	\$626,994.51
money market	\$1,685,220.04

Loan Balances @ 5/31/25

Reliance	\$166,455.12
Northwest	\$2,721,168.23
PennWorks	\$763,235.72

Balance in Capital Projects Fund @ 5/31/25

\$224,100.00

Bellefonte Borough Authority Meeting July 1st, 2025 WWTP Report

Bulk Water sales for the month of June were approx. 350,000 gals.

6/4/25 – Sent pertinent paperwork to CCCF to renew their pretreatment permit. – Emailed DEP WQS to report about having a non-compliance due to a missing sample bottle for Total metals. Received her response the following day. Pace comment of missing analysis bottle on their chain at arrival to lab but never alerted the plant.

6/5/25 – Paperwork returned from CCCF. Requested Jean review prior to sending to EPA & CCCF for adjustments to existing permit. – North F.C. drive chain requiring link removal or replacement. Will begin lowering water level Sunday evening.

6/9/25 – New drive chain installed @ final clarifier. Two top drive sprockets ordered to replace existing along with two drive chains. North ride rails badly deteriorated, repairs list pending.

6/12/25 – Keystone Scale brought a replacement load cell for polymer scale (obsolete). Measured platform to quote replacement. – Maintenance running inner duct conduit to run fiber from A.S. units to Biomag bldg. for the pump project. – Requested a publication of SNC for Piezo Kinetics in the Lock Haven Express & CDT. Alyssa and Jean worked out details later. – Quarterly Volute press sampling completed and taken to Ag Analytical @ PSU.

6/16/25 – Emailed cover letter and Jean's revised permit to CCCF. Forwarded this reissuance along with a statement of publication for Piezo's SNC to EPA & ERG, the representatives on site for our pretreatment audit.

6/19/25 – Received a request for a Methods change for our quarterly biosolids fecal coliform testing. Shannon completed the sampling and submitted as required. Called DEP for verification that the method change is acceptable.

6/20/25 – Julie, Shannon and Bryan Muthler conducted a plant safety inspection.

6/25/25 – Jason Brown (UAJA) in to discuss possibly needing some of our liquid sludge for a start up at the new process. More information pending. – Shannon contacted Trojan about UV touchscreen calibration and positioning.

6/26/25 – Quarterly plant sampling of effluent, influent, D3 sludge and PFAS sampling completed and picked up by Suburban. Filed the May eDMR with DEP.

Water Report July 2025

6/3-4/25	Spray Right of Ways
6/6/25	Jett sewer main at N Spring St / Linn St
6/9/25	Jett sewer main at N. Spring St / Curtin St
9/9/25	Repair 6" water main leak on Airport Rd (clamp)
6/10/25	Jett sewer main at S. Spring St / Bishop St
6/12/25	Set loggers out on Fishburn Hill Rd to check for leak
6/17/25	Repair fire hydrant @ Penn Tech Dr (Sate Police Barracks)
6/18/25	Hydro excavate curb box @ 127 E. Beaver St
6/19/25	Repair 4" water main @ W. Water St / Willowbank St (clamp)
6/20/25	Replace ¾" service line @ 127 E. Beaver St (copper)
6/23/25	Replace Shut off @ 701 / 703 Willowbank St
6/24/25	Repair 6" water main break @ 415 E. Burnside St (clamp)
6/26-27/25	Repair 2" water main break and repair sewer @ Hughes St / Burnside St
6/30/25	Replace ¾" service line @ 645 Willowbank St (galvanized)

Replaced 125 water meters

Marked 51 PA-1 Calls

Niagara Filling Station 226,000 gallons



RE: 191222 Kappe - Big Spring Bellefonte, PA- budget

From Casey Ericson <casey@kappe-inc.com>

Date Mon 6/9/2025 1:57 PM

To Ralph Stewart <rstewart@sce-airport.com>

Cc Matt Auman <mauman@bellefontepa.gov>; Julie Brooks <jbrooks@bellefontepa.gov>; Evan Oswald <eoswald@kappe-inc.com>

Thank you for your patience.

The updated budget price for your project is:

Delivered M/O	Install Adder	Total Combined
\$ 646,750	\$ 200,000	\$ 846,750

We can do colors, but they are between \$4.50 - \$5.00 PER SQFT ADDER

Please let us know if you have any questions or need anything additional.

With appreciation,

Casey Ericson

Kappe Associates Inc.

(724) 787-1731 | casey@kappe-inc.com

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From: Ralph Stewart <rstewart@sce-airport.com>

Sent: Friday, May 30, 2025 3:32 PM

To: Casey Ericson <casey@kappe-inc.com>

Cc: Matt Auman <mauman@bellefontepa.gov>; Julie Brooks <jbrooks@bellefontepa.gov>; Evan Oswald <eoswald@kappe-inc.com>

Subject: Re: 191222 Kappe - Big Spring Bellefonte, PA- budget

Thank you very much Casey!

Sent from my Verizon, Samsung Galaxy smartphone
Get [Outlook for Android](#)

From: Casey Ericson <casey@kappe-inc.com>

Sent: Friday, May 30, 2025 3:03:13 PM

To: Ralph Stewart <rstewart@sce-airport.com>

Cc: Matt Auman <mauman@bellefontepa.gov>; Julie Brooks <jbrooks@bellefontepa.gov>; Evan Oswald

Bellefonte Borough Authority July 1, 2025<eoswald@kappe-inc.com>**Subject:** RE: 191222 Kappe - Big Spring Bellefonte, PA- budget

Hello Ralph,

Happy to hear from you. I'll get the budget price updated for you and be back in touch asap.

Talk soon, hope you have a nice weekend.

With appreciation,

Casey Ericson**Kappe Associates Inc.**(724) 787-1731 | casey@kappe-inc.com[Subscribe to our Newsletter](#)*Click below and follow us!*

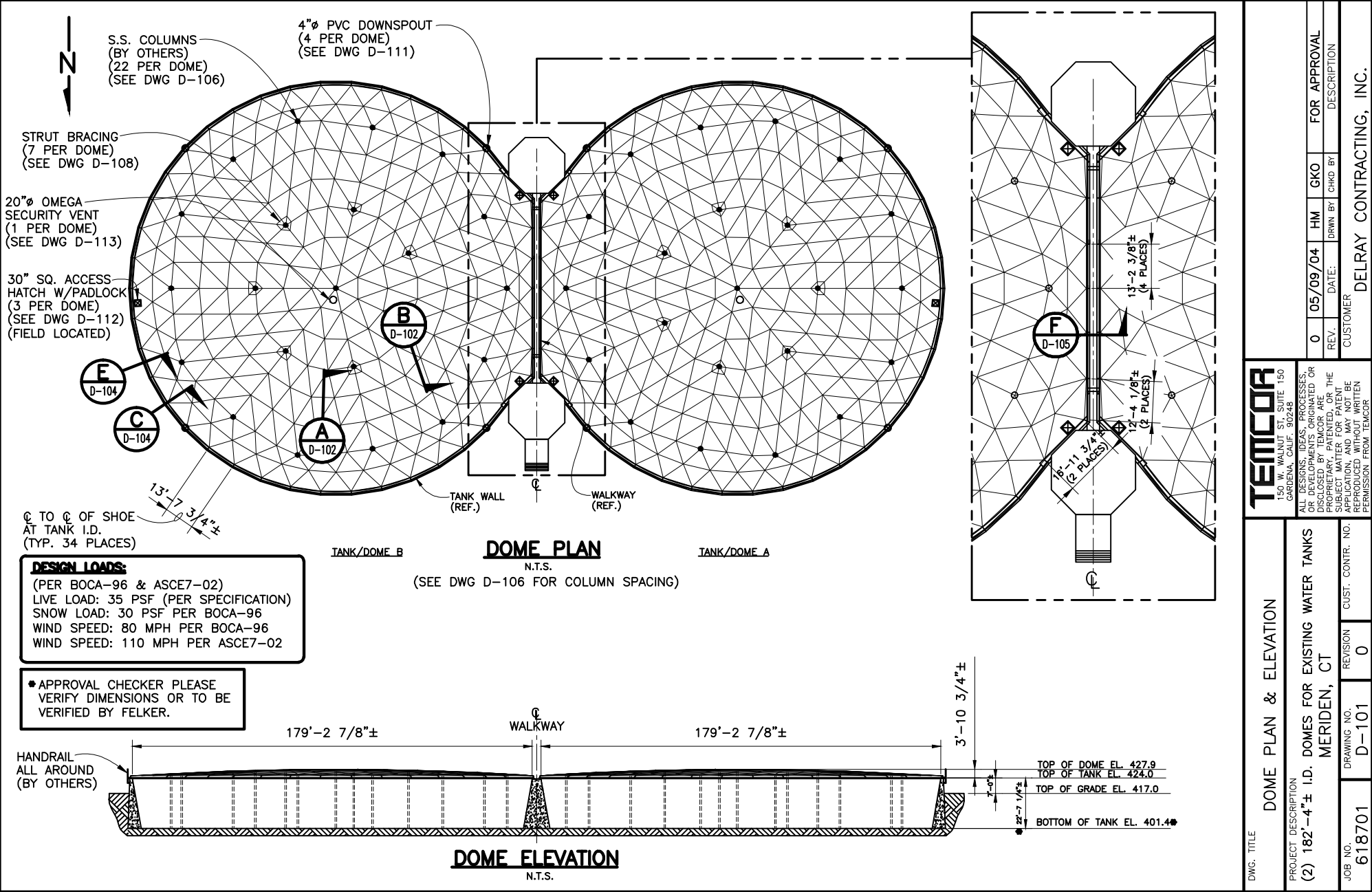
From: Ralph Stewart <rstewart@sce-airport.com>**Sent:** Friday, May 30, 2025 1:57 PM**To:** Casey Ericson <casey@kappe-inc.com>**Cc:** Matt Auman <mauman@bellefontepa.gov>; Julie Brooks <jbrooks@bellefontepa.gov>**Subject:** 191222 Kappe - Big Spring Bellefonte, PA- budget

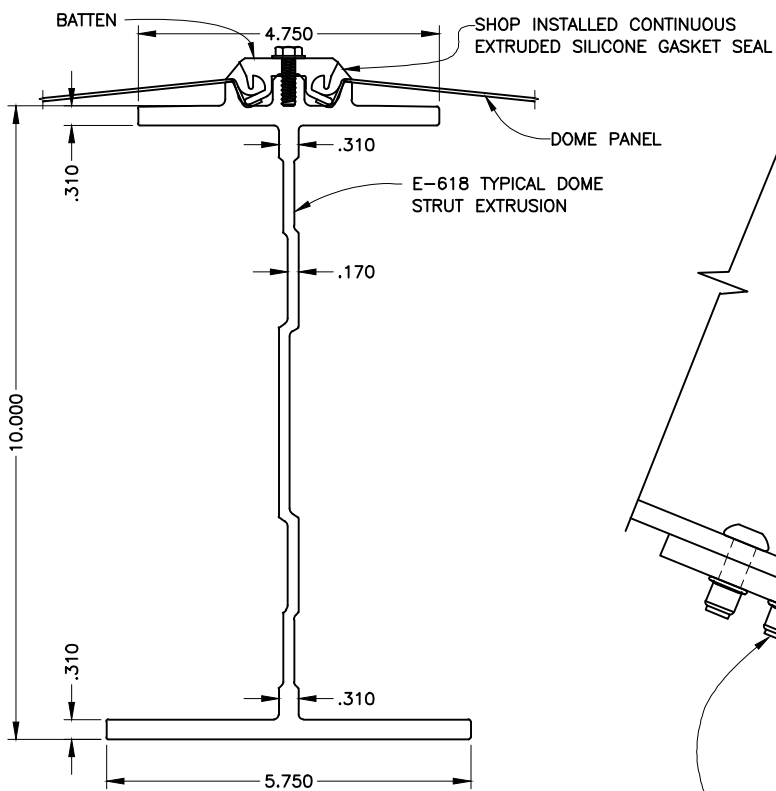
Hello Casey,

This is Ralph Stewart. I am still with the Bellefonte Borough Authority as the Secretary, but I have retired from Bellefonte Borough (hence the different email address). Anyway, our Authority has explored a number of options for the cover over the spring pond. They are back to thinking about a hardshell or metal cover. A while back you sent us some rough budget numbers for materials and installation. Would you please update those numbers and resend them? We would also like to know of any options on material finishes, cover designs, etc. We will likely be in touch with questions.

Thank you very much!

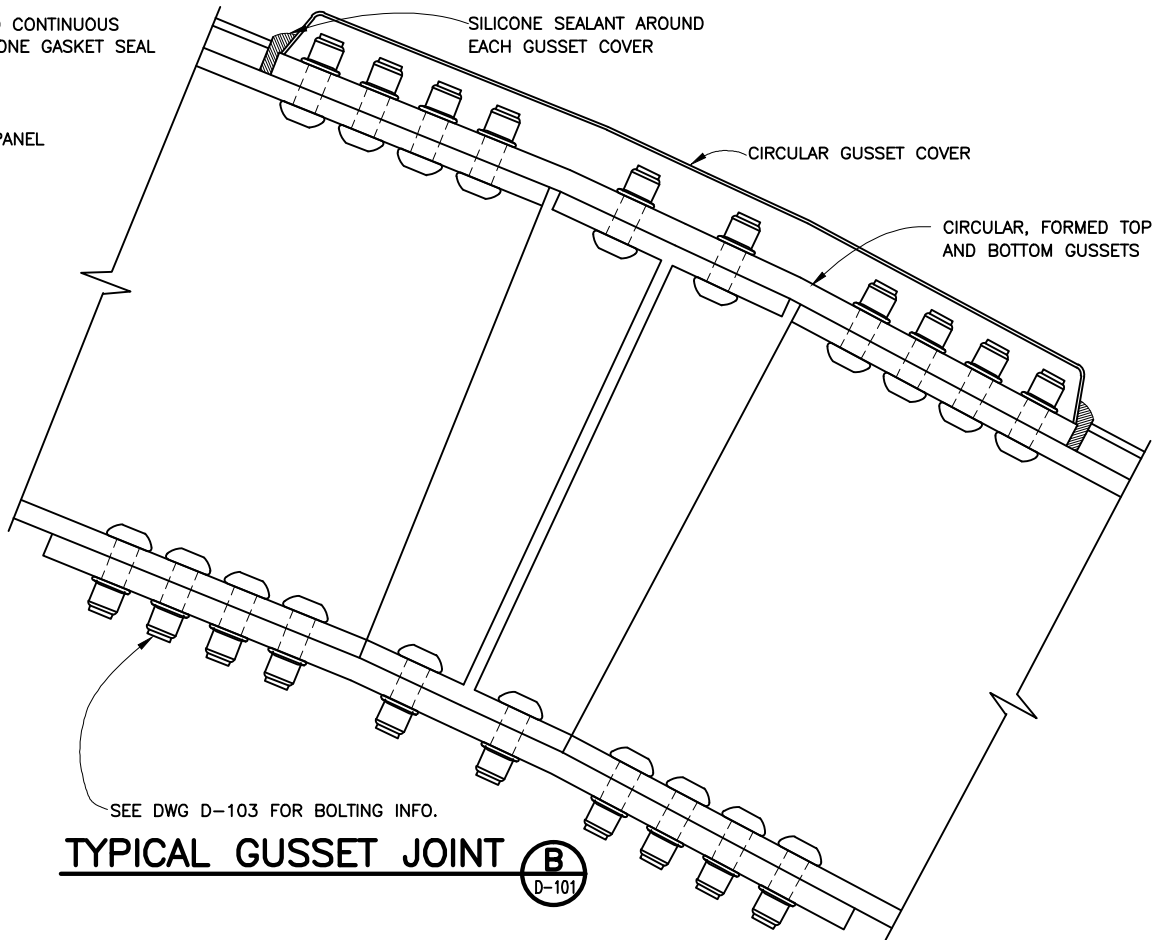
Ralph Stewart





TYPICAL DOME STRUT

A
D-101



TYPICAL GUSSET JOINT

B
D-101

NOTES:

- ALL MATERIAL EXCEPT AS OTHERWISE NOTED IS MILL FINISH ALUMINUM AS FOLLOWS:
 STRUTS, GUSSETS AND PLATES — 6061-T6
 PANELS, FLASHING, AND GUSSET COVERS — 3003-H16
 BATTENS — 6061-T6 OR 6063-T6
- MATERIAL SIZE:
 STRUT — AS NOTED
 TYPICAL TOP GUSSET — 3/8" X 22"φ
 TYPICAL BOTTOM GUSSET — 3/8" X 24"φ
 SHOE TOP GUSSET — 7/16" X 20"φ
 SHOE BOTTOM GUSSET — 3/4" X 24"φ
 COLUMN GUSSETS — SEE DWG D-106/D-107
 PANEL AND FLASHING — 0.05" THICK
- FASTENERS:
 LOCKBOLTS — ALUMINUM (7075-T73) OR S.S. (305) AS NOTED. (AL. LOCKBOLTS CLEAR ANODIZED 204)
 LOCKBOLT COLLARS — ALUMINUM (6061 HEAT TREATED)
 ANCHOR BOLTS — S.S. (316)
 BATTEN SCREWS — #14 DIA. S.S. (302)
 ALL OTHER THREADED BOLTS — S.S. (316)
- SEALANT
 PECORA OR DOW CORNING, SILICONE SEALANT MEETING FEDERAL SPEC TT-S-001543A AND TT-S-00230C.
- ALL DIMENSIONS SHOWN ARE NOMINAL AND IN INCHES, UNLESS NOTED OTHERWISE.

DWG. TITLE

TYPICAL STRUT & GUSSET JOINT DETAIL

PROJECT DESCRIPTION

(2) 182'-4"± I.D. DOMES FOR EXISTING WATER TANKS
MERIDEN, CT

JOB NO.
618701

DRAWING NO.
D-102

REVISION
0

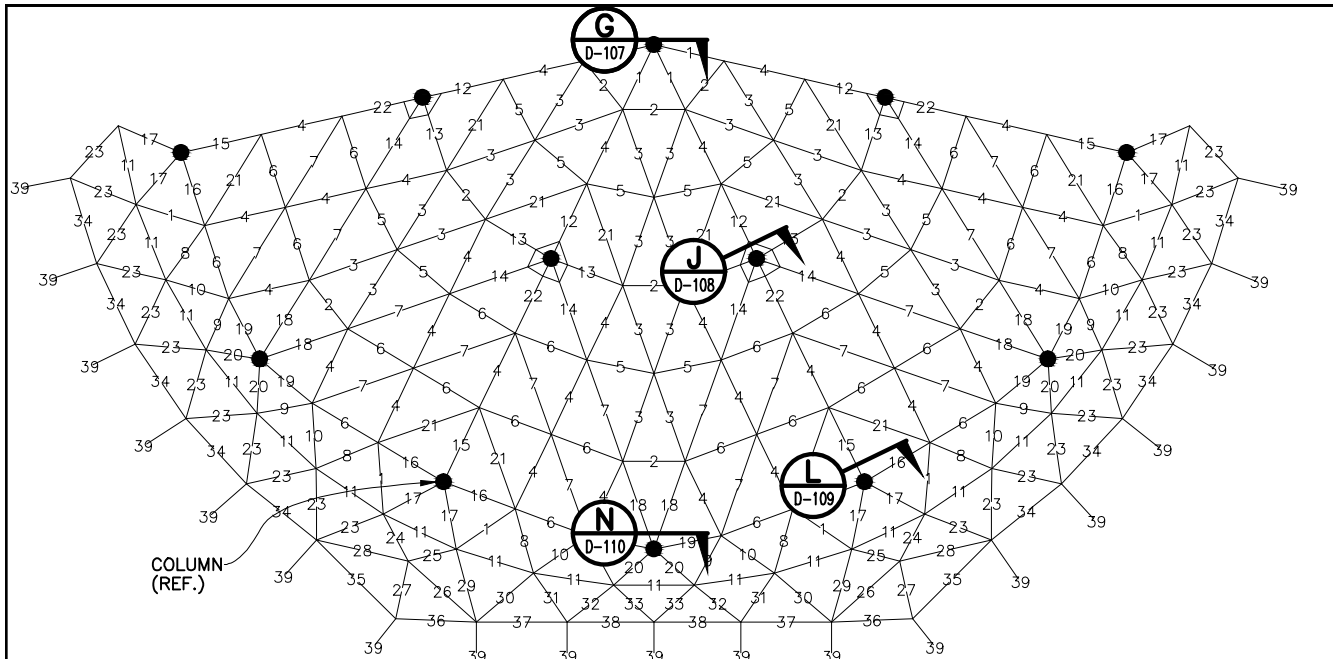
CUST. CONTR. NO.

TEMCOR
150 W. MAIN ST., SUITE 150
GARDENA, CALIF. 90248

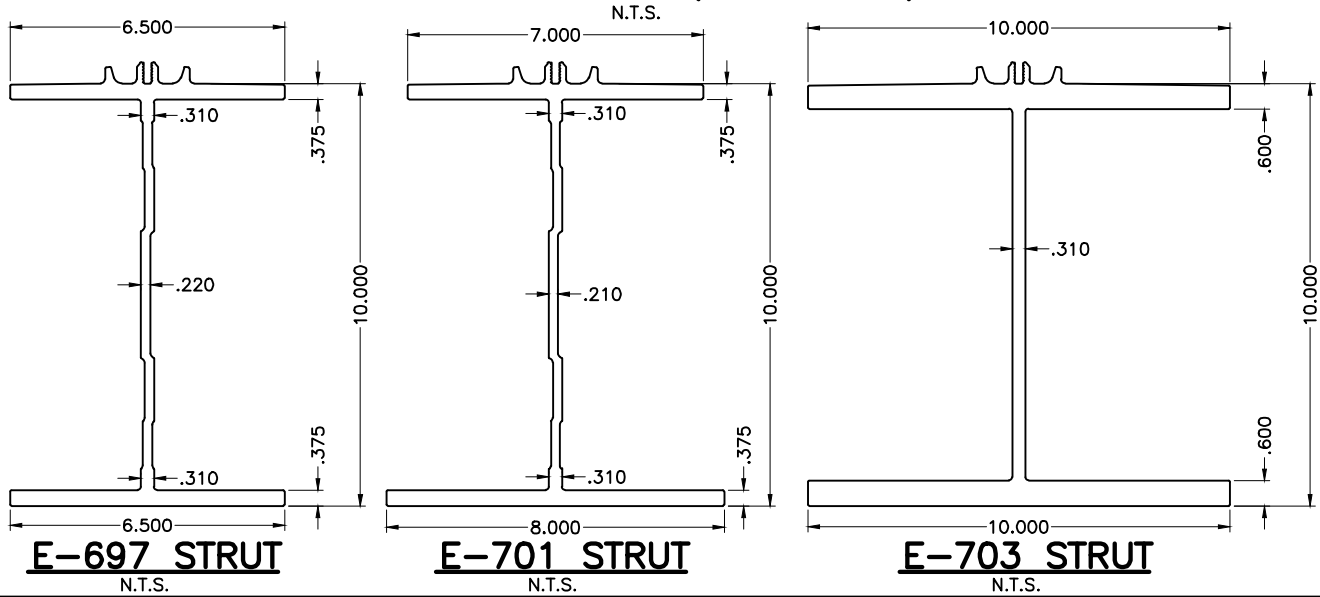
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REV. 0 DATE: 05/09/04
FOR APPROVAL
GKO
HM
DRWN BY
CHKD BY

CUSTOMER
DELRAY CONTRACTING, INC.



GEOMETRY PLAN (3 SECTORS)



STRUT NO.	STRUT TYPE	BOLTING	
		TOP	BOTTOM
1	E-701	8 S.S.	10 S.S.
2	E-618	8 S.S.	8 S.S.
3	E-697	8 S.S.	8 S.S.
4	E-697	12 S.S.	10 S.S.
5	E-618	8 S.S.	8 S.S.
6	E-618	8 S.S.	8 S.S.
7	E-697	8 S.S.	8 S.S.
8	E-618	8 S.S.	8 S.S.
9	E-618	8 S.S.	8 S.S.
10	E-618	8 S.S.	8 S.S.
11	E-618	8 S.S.	8 S.S.
12	E-703	8 S.S.	8 S.S.
		30 S.S.	34 S.S.
13	E-703	26 S.S.	30 S.S.
		8 S.S.	8 S.S.
14	E-703	18 S.S.	18 S.S.
		10 S.S.	10 S.S.
15	E-703	14 S.S.	14 S.S.
		24 S.S.	26 S.S.
16	E-703	14 S.S.	14 S.S.
		22 S.S.	22 S.S.
17	E-703	18 S.S.	18 S.S.
		8 S.S.	8 S.S.
18	E-701	10 S.S.	8 S.S.
		12 S.S.	14 S.S.
19	E-701	8 S.S.	8 S.S.
		12 S.S.	12 S.S.
20	E-703	20 S.S.	22 S.S.
		8 S.S.	8 S.S.
21	E-701	8 S.S.	8 S.S.
22	E-703	16 S.S.	18 S.S.
		12 S.S.	10 S.S.
23	E-618	8 S.S.	8 S.S.
24	E-618	8 S.S.	8 S.S.
25	E-618	8 S.S.	8 S.S.
26	E-618	8 S.S.	8 S.S.
27	E-618	8 S.S.	8 S.S.
28	E-618	8 S.S.	8 S.S.
29	E-618	8 S.S.	8 S.S.
30	E-697	8 S.S.	8 S.S.
31	E-618	8 S.S.	8 S.S.
32	E-618	8 S.S.	8 S.S.
33	E-618	8 S.S.	8 S.S.
34	E-618	8 S.S.	8 S.S.
35	E-618	8 S.S.	8 S.S.
36	E-618	8 S.S.	8 S.S.
37	E-618	8 S.S.	8 S.S.
38	E-618	8 S.S.	8 S.S.
39	DUMMY STRUT		

STRUT & BOLTING

*BOLTING AT THE COLUMN END OF THE STRUT

DWG. TITLE

DOMES STRUTS & BOLTING

PROJECT DESCRIPTION

(2) 182'-4"± I.D. DOMES FOR EXISTING WATER TANKS
MERIDEN, CT

JOB NO.
618701

DRAWING NO.
D-103

REVISION

CUST. CONTR. NO.
0

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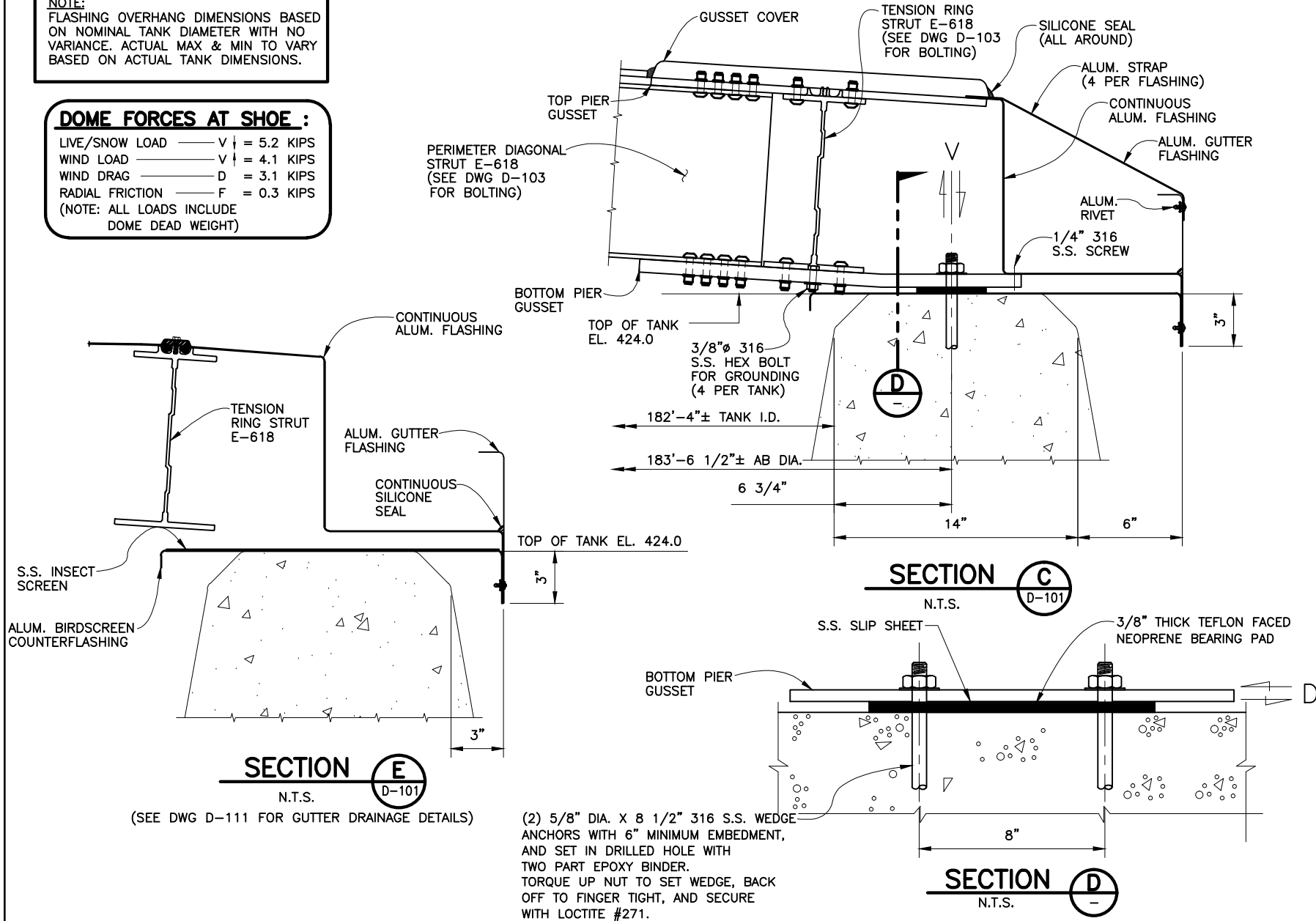
REV. 0
DATE: 05/09/04
FOR APPROVAL
DESCRIPTION

CUSTOMER
DELRAY CONTRACTING, INC.

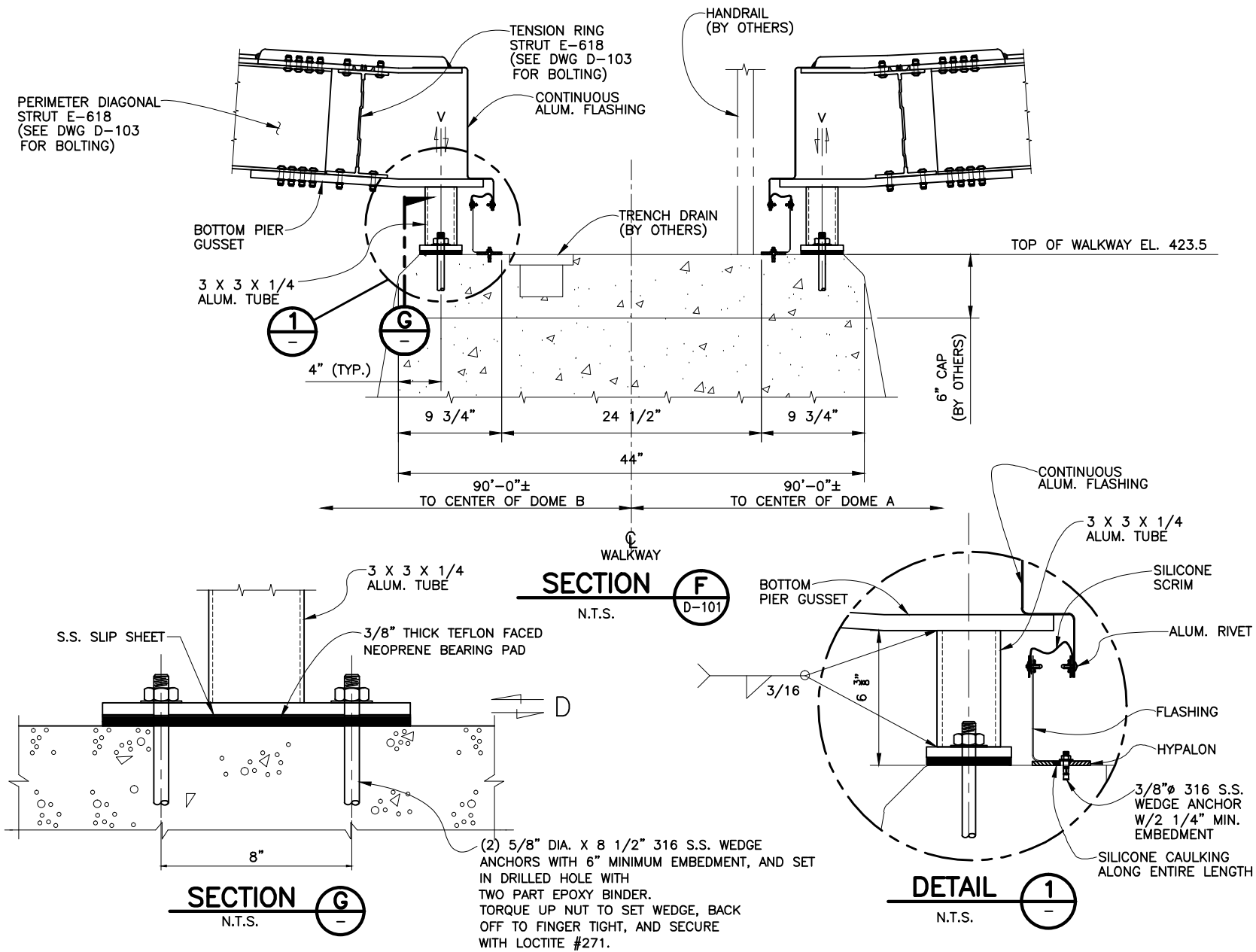
NOTE:
FLASHING OVERHANG DIMENSIONS BASED ON NOMINAL TANK DIAMETER WITH NO VARIANCE. ACTUAL MAX & MIN TO VARY BASED ON ACTUAL TANK DIMENSIONS.

DOME FORCES AT SHOE :

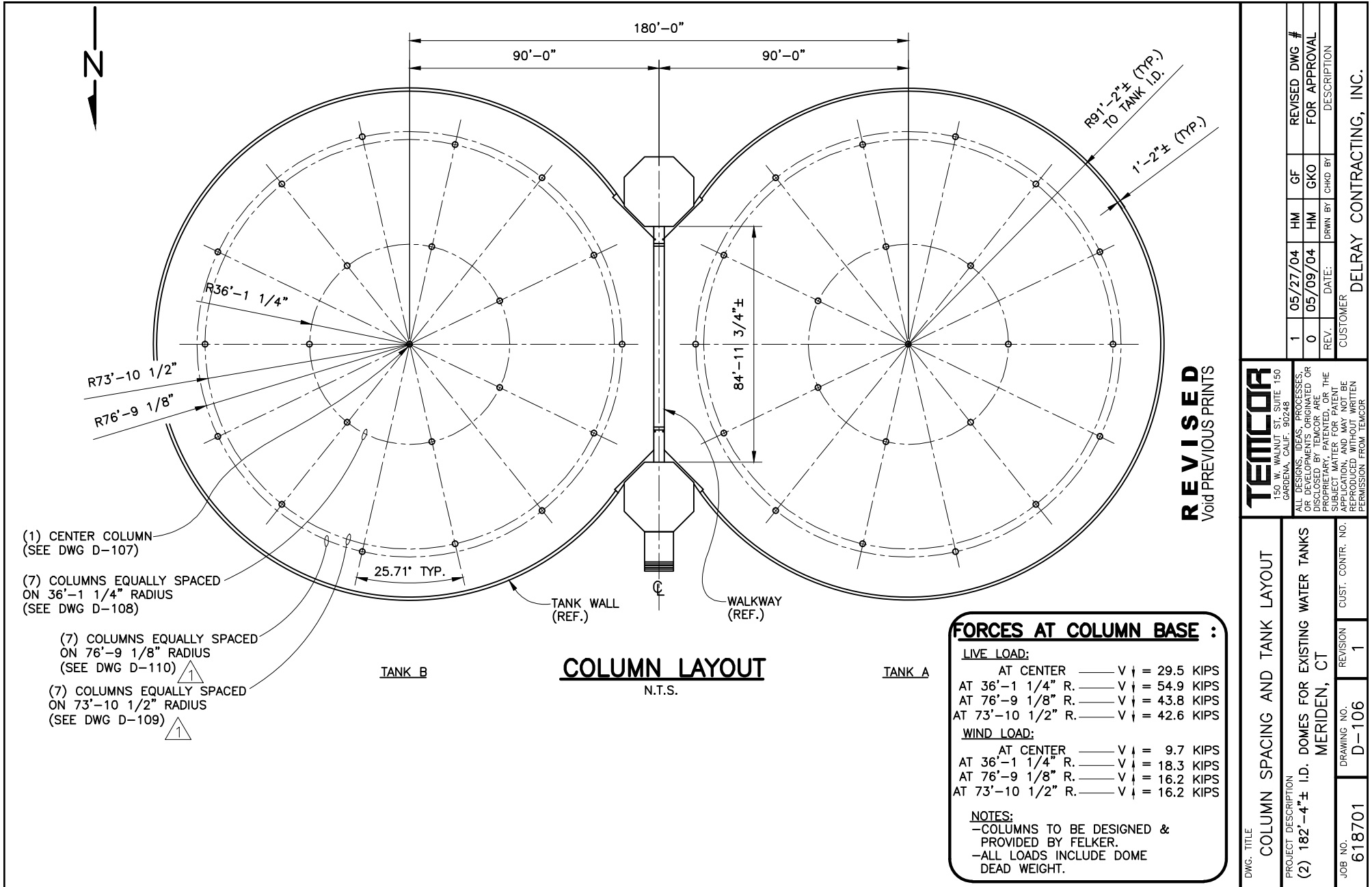
LIVE/SNOW LOAD — V ↓ = 5.2 KIPS
WIND LOAD — V ↓ = 4.1 KIPS
WIND DRAG — D = 3.1 KIPS
RADIAL FRICTION — F = 0.3 KIPS
(NOTE: ALL LOADS INCLUDE DOME DEAD WEIGHT)

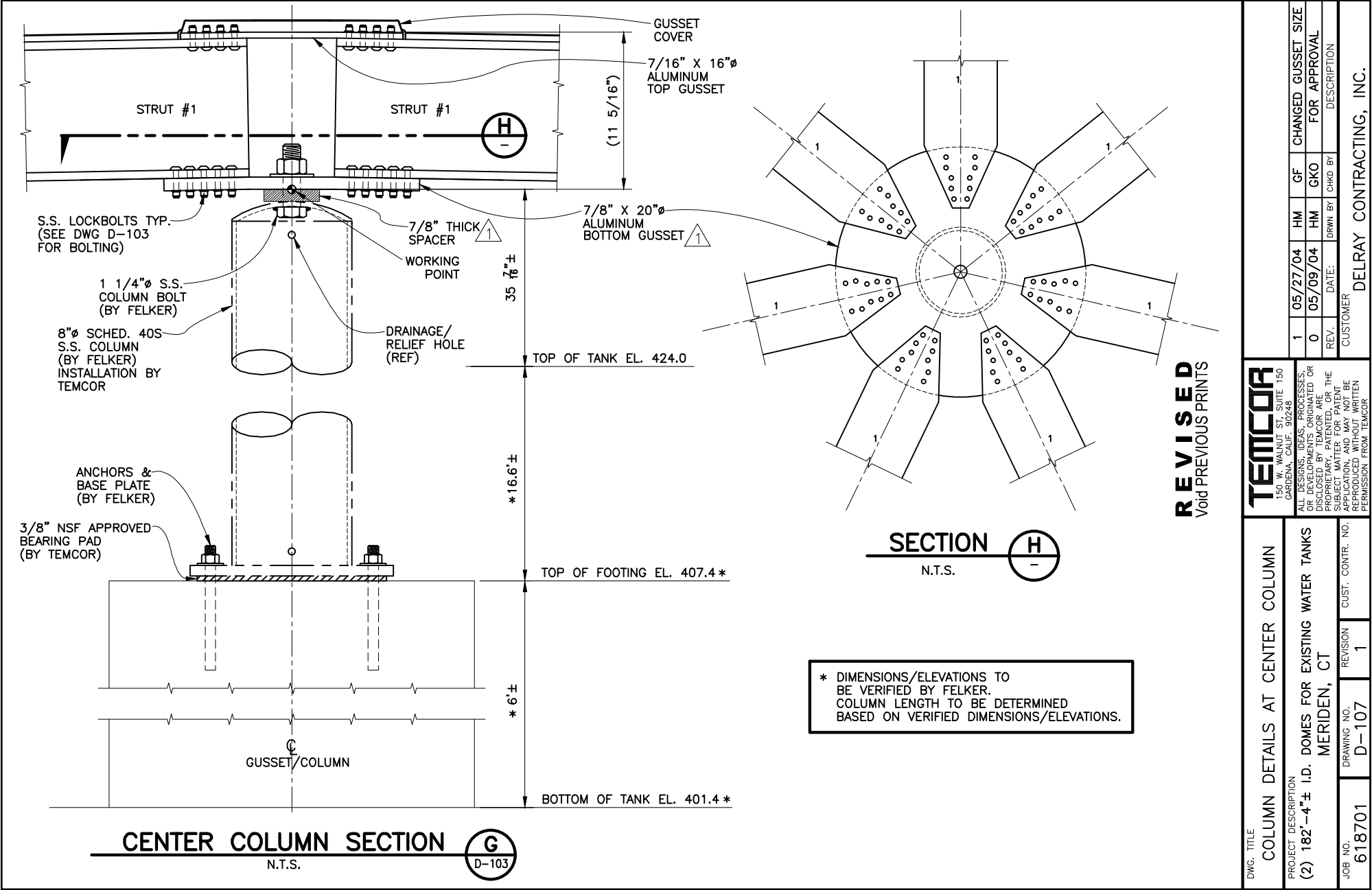


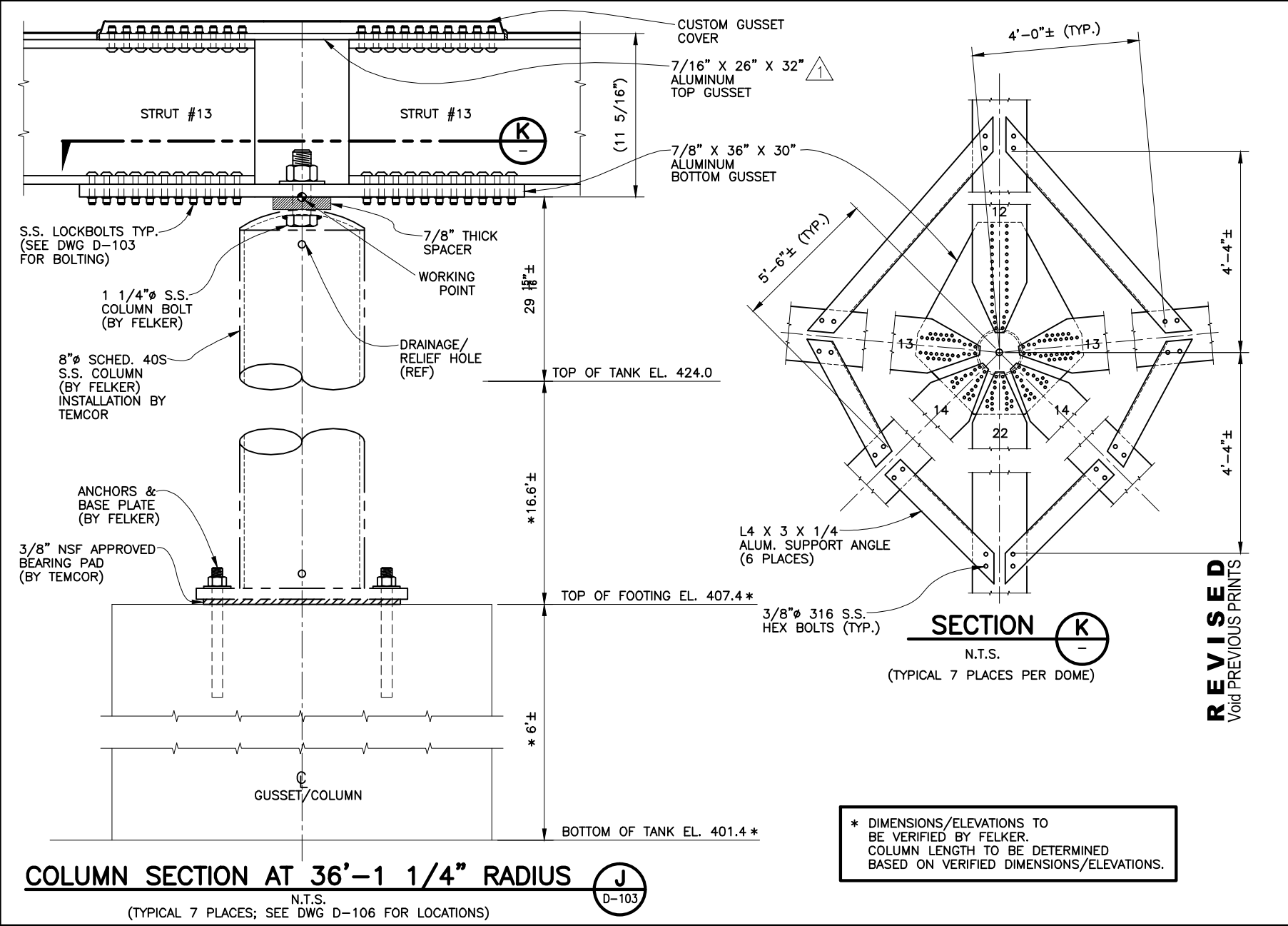
DWG. TITLE										<div>TEMCOR</div> <div>150 W. WALNUT ST., SUITE 150 GARDENA, CALIF. 90248</div> <div>ALL DESIGNS, IDEAS, PROCESSES, OR DEVELOPMENTS ORIGINATED OR DISCLOSED BY TEMCOR ARE PROPRIETARY, PATENTED, OR THE SUBJECT MATTER FOR PATENT APPLICATION. NO PARTS SHALL BE REPRODUCED WITHOUT WRITTEN PERMISSION FROM TEMCOR.</div>																													
TYPICAL PIER, TENSION RING & FLASHING DETAILS																																							
PROJECT DESCRIPTION																																							
(2) 182'-4"± I.D. DOMES FOR EXISTING WATER TANKS MERIDEN, CT										REV. 0 05/09/04 HM GKO FOR APPROVAL																													
JOB NO. 618701										DRAWING NO. D-104										REVISION 0										CUST. CONTR. NO.									
																				CUSTOMER										DELRAY CONTRACTING, INC.									



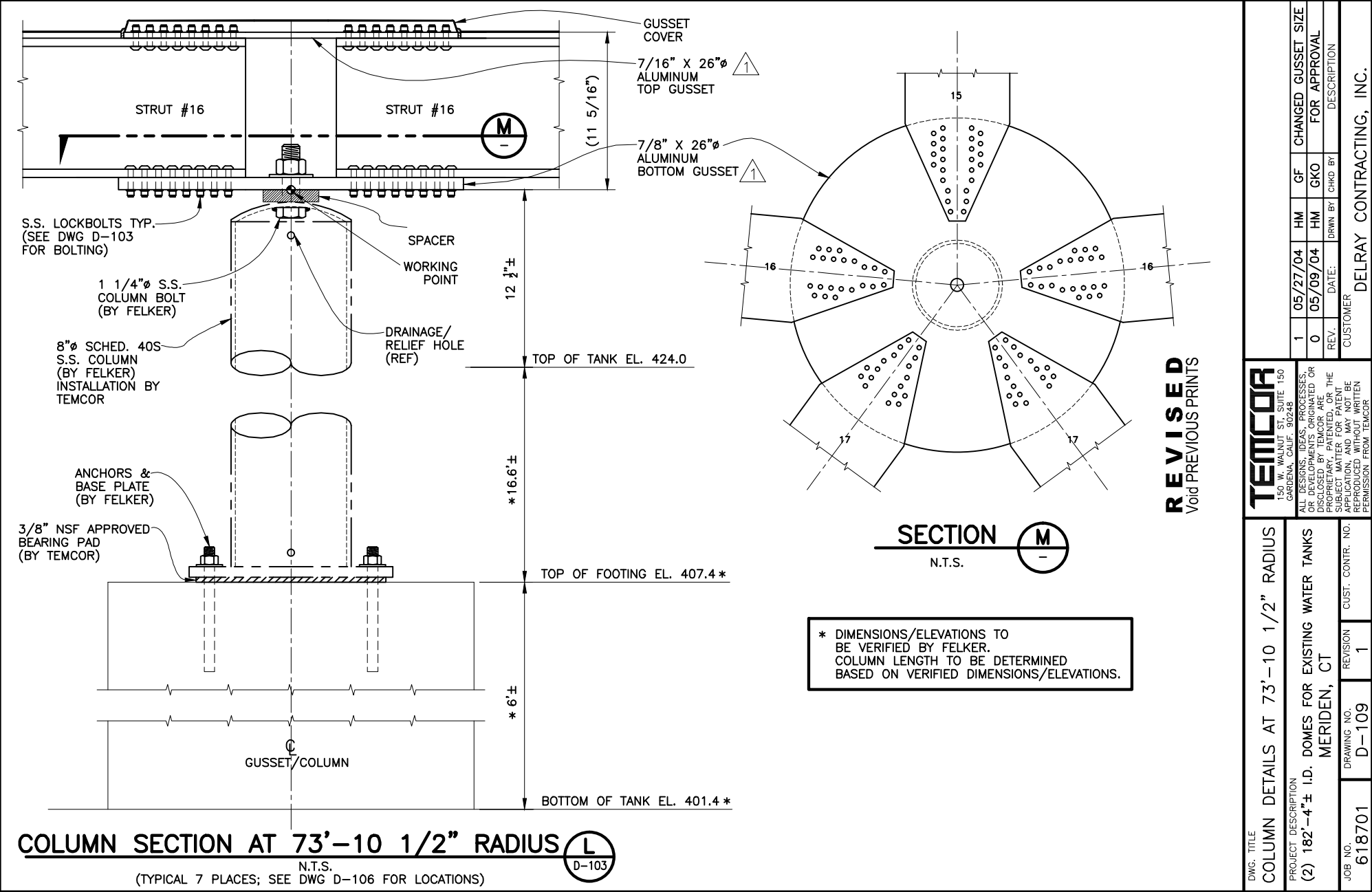
DWG. TITLE	PIER, TENSION RING & FLASHING DETAILS AT WALKWAY			
	PROJECT DESCRIPTION			
	(2) 182'-4"± I.D. DOMES FOR EXISTING WATER TANKS			
	MERIDEN, CT			
JOB NO.	618701	DRAWING NO.	D-105	0
REV.	0	DATE:	05/09/04	0
FOR APPROVAL	GKO			
DESCRIPTION	DELAY CONTRACTING, INC.			

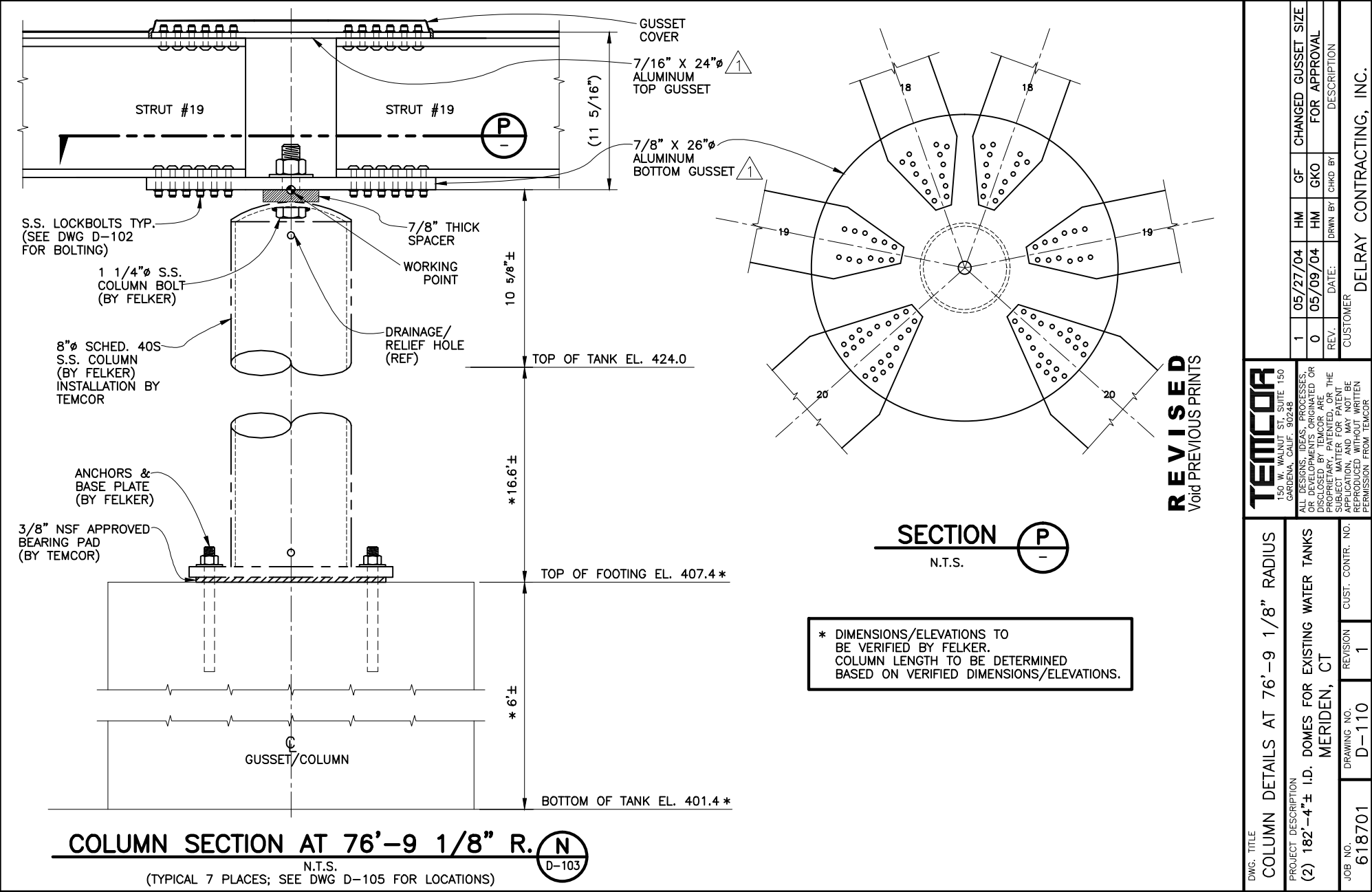


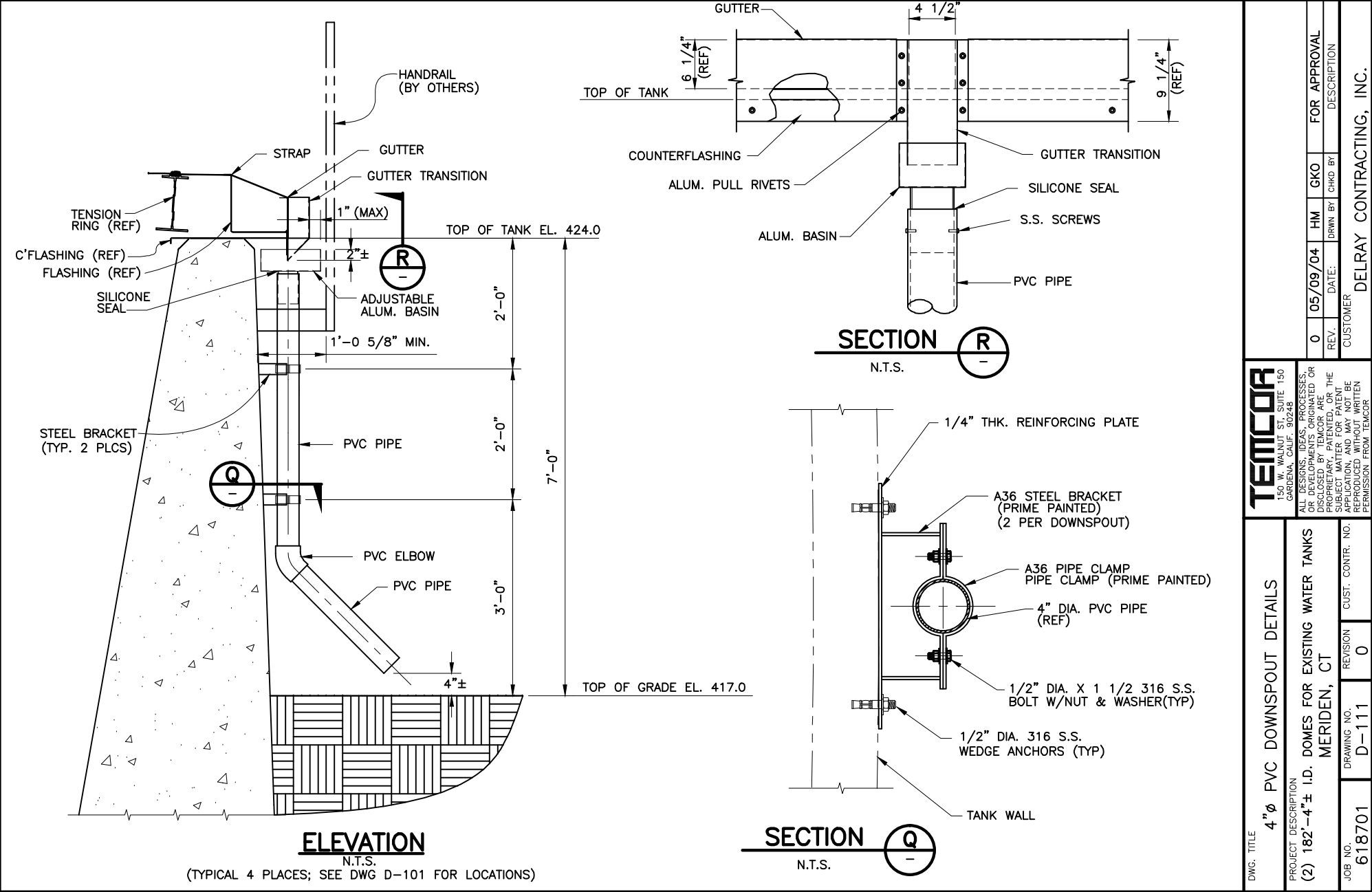


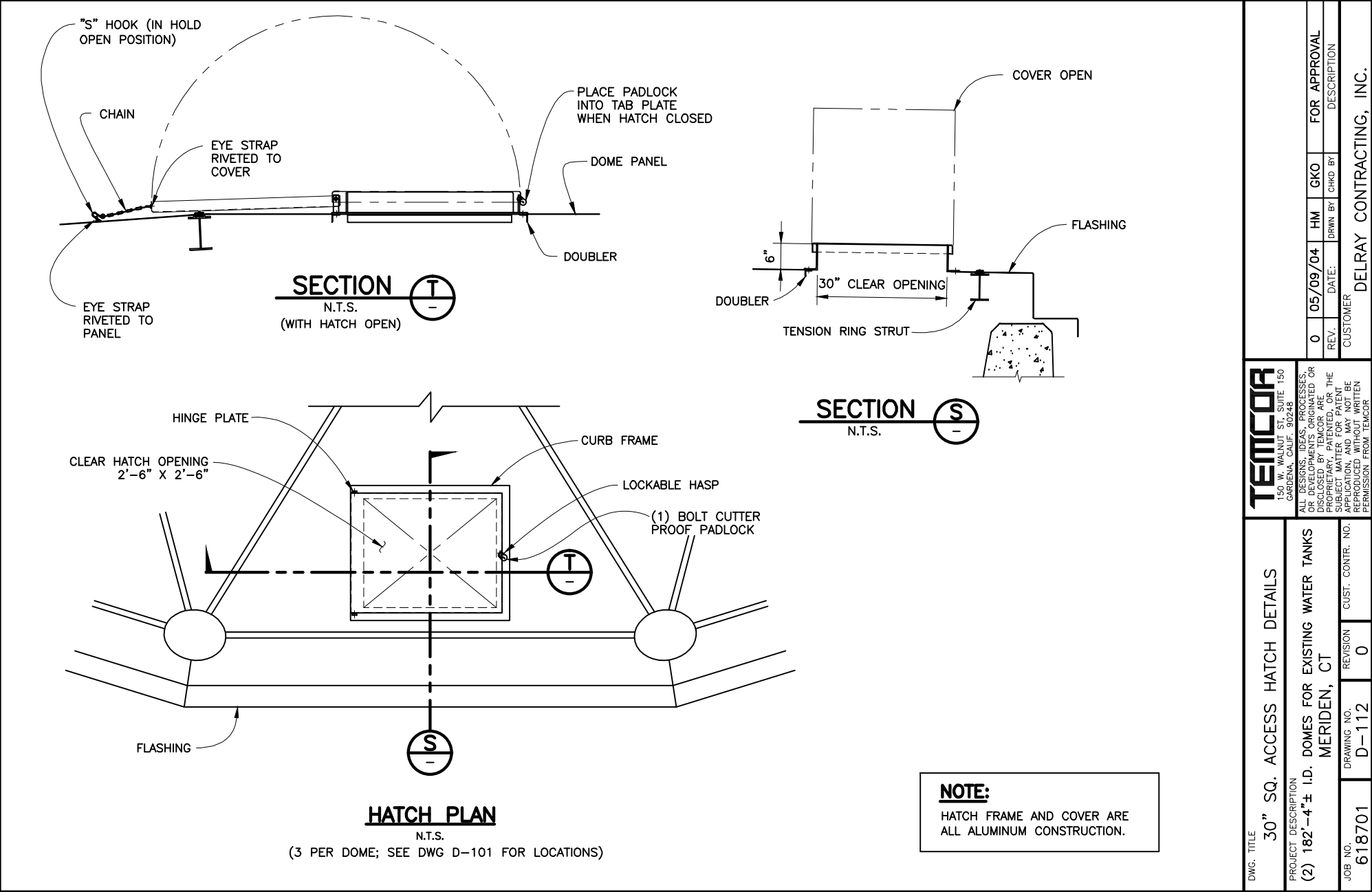


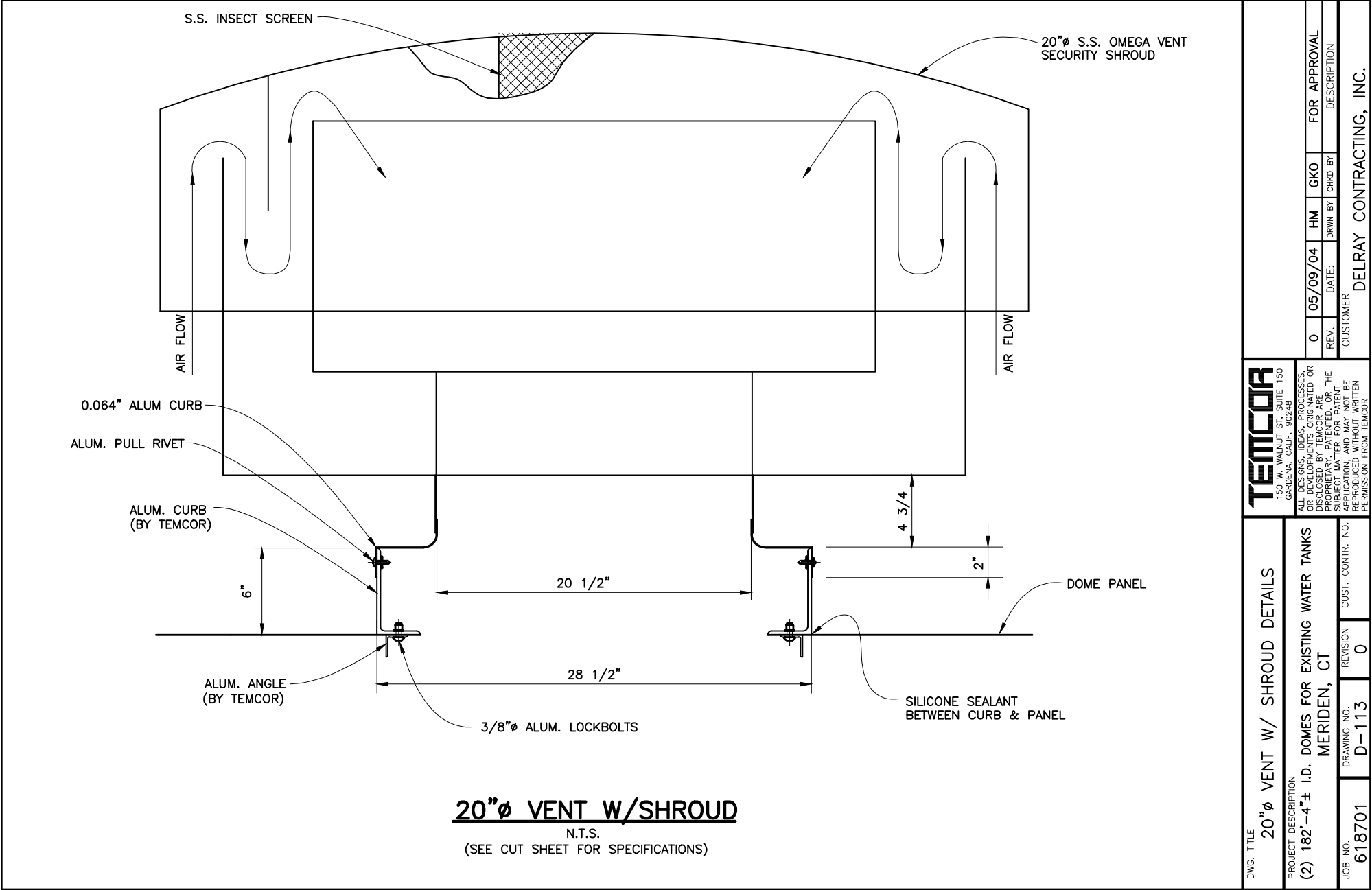
DWG. TITLE COLUMN DETAILS AT 36'-1 1/4" RADIUS	1 05/27/04 HM GF				CHANGED GUSSET SIZE
	0 05/09/04 HM GKO				FOR APPROVAL
	REV. DATE: DRWN BY CHKD BY				DESCRIPTION
	CUSTOMER				DELRAY CONTRACTING, INC.
PROJECT DESCRIPTION (2) 182'-4"± I.D. DOMES FOR EXISTING WATER TANKS MERIDEN, CT	TEMCOR 150 W. MAIN ST. SUITE 150 GARDENA, CALIF. 90248				
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	JOB NO. 618701				
	DRAWING NO. D-108				
CUST. CONTR. NO.		REVISION		1	











INVITATION FOR BID NUMBER: XXXXXX

DATED: DECEMBER 2010

CITY OF RICHMOND
DEPARTMENT OF PUBLIC UTILITIES

FINISHED WATER BASIN COVER PROJECT
100% SUBMITTAL

RICHMOND PROCUREMENT SERVICES
DEPARTMENT OF GENERAL SERVICES
900 EAST BROAD STREET, ROOM 1104
RICHMOND, VA. 23219-6131

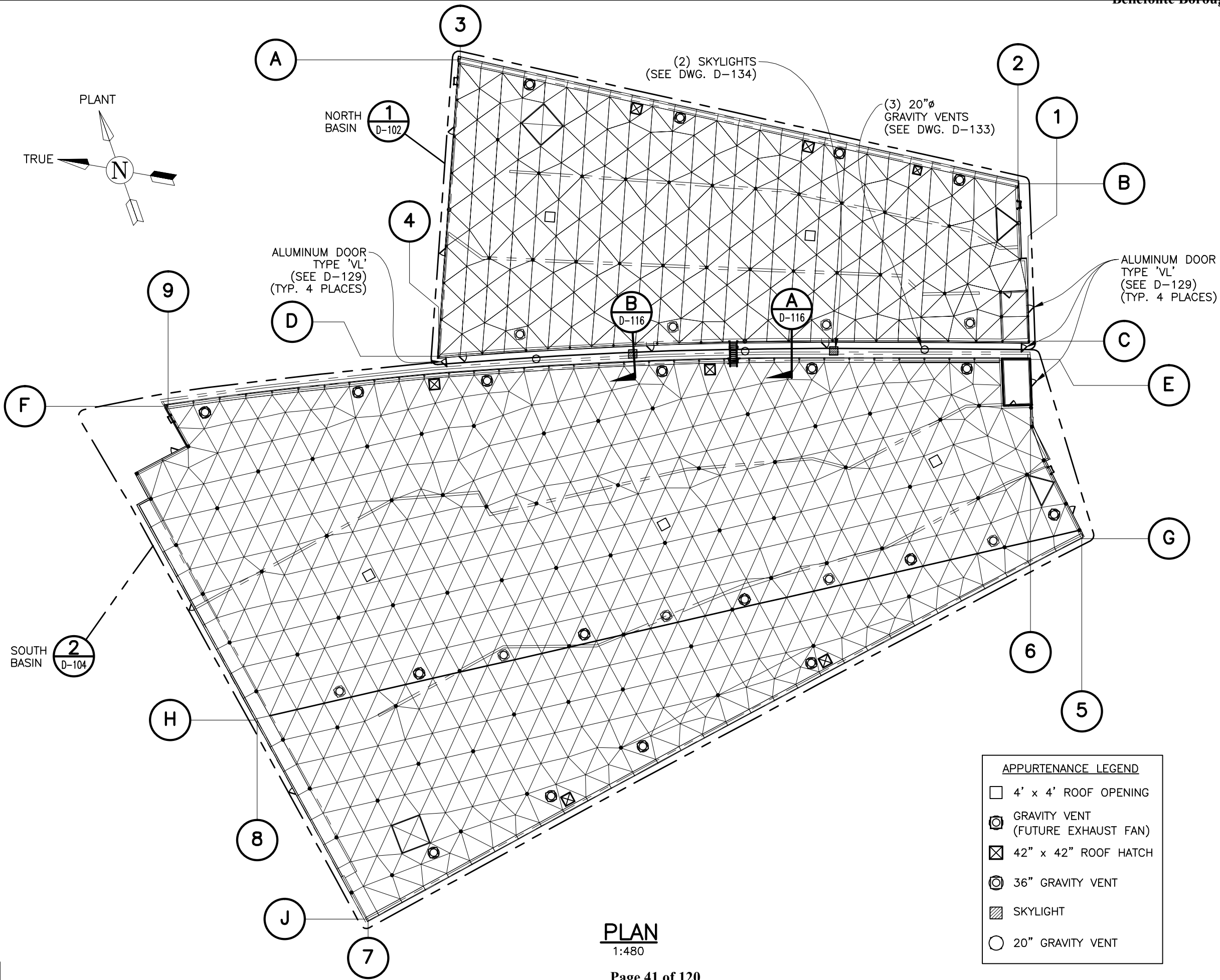


COVER SUPPLIER: TEMCOR
COVER ENGINEER: DAVID A. BRAHM P.E.
COVER DRAWINGS: D-101 THRU D-152
879 WEST 190TH STREET, 11TH FLOOR
GARDENA, CA. 90248
310-353-5100

PROJECT NO. 363753

DRAWING INDEX	
No.	TITLE
D-101	North & South Basin Plan View
D-102	North Basin Plan View
D-103	North Basin Handrail Plan View
D-104	South Basin Plan View
D-105	South Basin Handrail Plan View
D-106	North Basin Elevation View
D-107	North Basin Elevation View
D-108	North Basin Elevation View
D-109	North Basin Elavation View
D-110	South Basin Elevation View
D-111	South Basin Elevation View
D-112	South Basin Elevation View
D-113	South Basin Elevation View
D-114	North Basin Post Lime Mixing Chamber Details
D-115	South Basin Post Lime Mixing Chamber Details
D-116	Center Walkway Sections
D-117	Shoe & Flashing Detail
D-118	Shoe & Flashing Details
D-119	North Basin Endwall Details
D-120	South Basin Endwall Details
D-121	South Basin @ West Wall Details
D-122	South Basin @ West Wall Details
D-123	Lime Mixing Chamber Sections
D-124	Handrail Details
D-125	Ladder Details
D-126	Center Stairs Details
D-127	Center Stairs Details Cont.
D-128	Screen Door Flashing Details
D-129	Typical Standard Door Details
D-130	Door Details
D-131	Removable Access Covers
D-132	48" Sq. Access Hatch Details
D-133	Ventilator Specifications
D-134	Skylights Specifications
D-135	Ventilator Specifications
D-136	Pipe Boot Details
D-137	Interior Column Details
D-138	Wall Bracing At North Basin
D-139	Wall Bracing At North Basin
D-140	Wall Bracing At North Basin
D-141	Wall Bracing At South Basin
D-142	Interior Bracing At South Basin
D-143	Wall Bracing At South Basin
D-144	Roof Beam and Joint Details
D-145	Extrusion Details
D-146	North Basin Roof Framing Plan
D-147	North Basin Support Layout
D-148	North Basin Column Information
D-149	South Basin Roof Framing Plan
D-150	South Basin Support Layout
D-151	South Basin Column Information
D-152	South Basin Column Information





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PLAN
1:480

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879 WEST 190TH STREET
GARDENA, CALIF. 90248

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DWG. TITLE

NORTH & SOUTH BASIN PLAN VIEW

PROJECT DESCRIPTION
FINISHED WATER BASIN COVER PROJECT
RICHMOND, VA

JOB NO.
310002/686401

DRAWING NO.
D-101

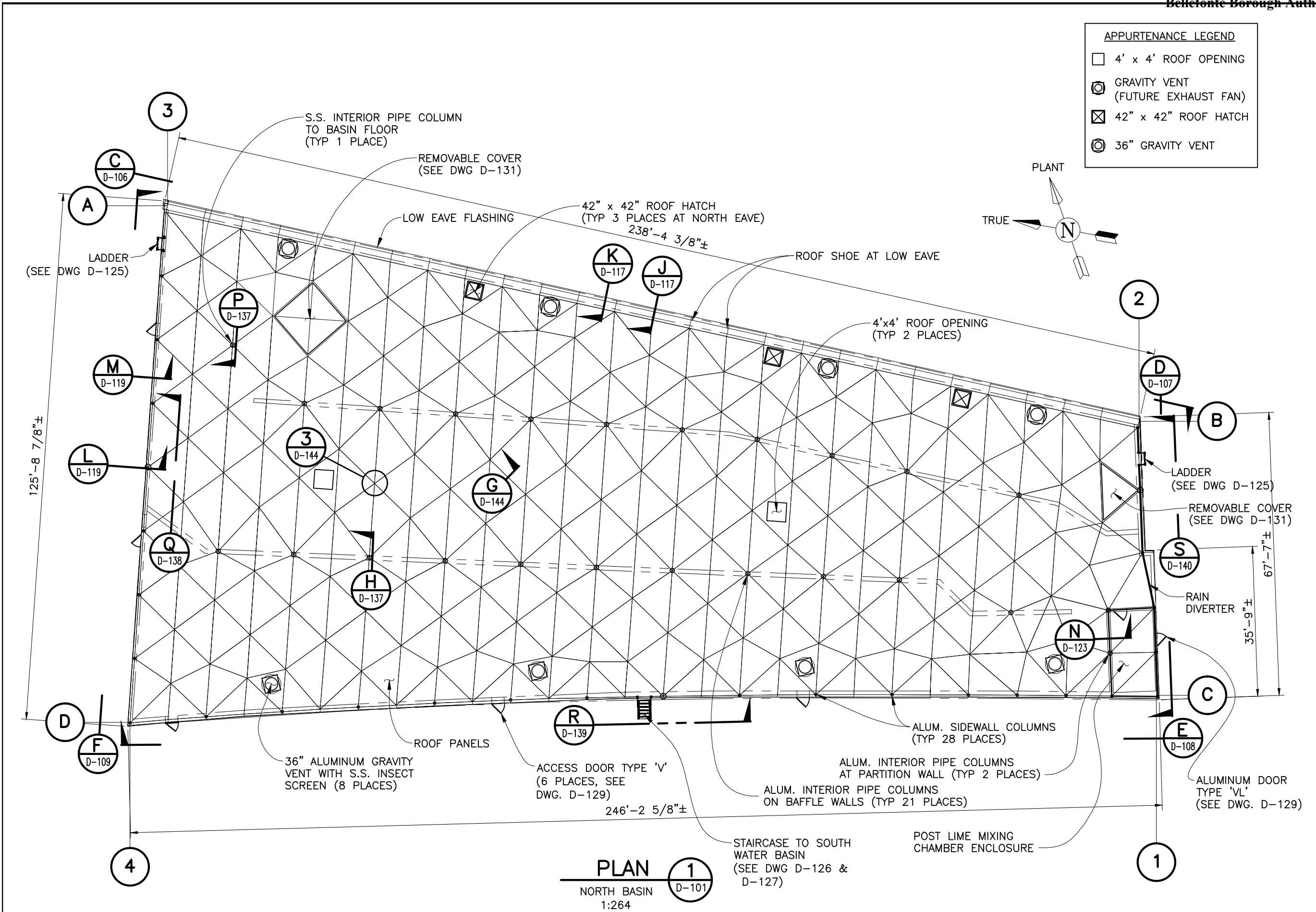
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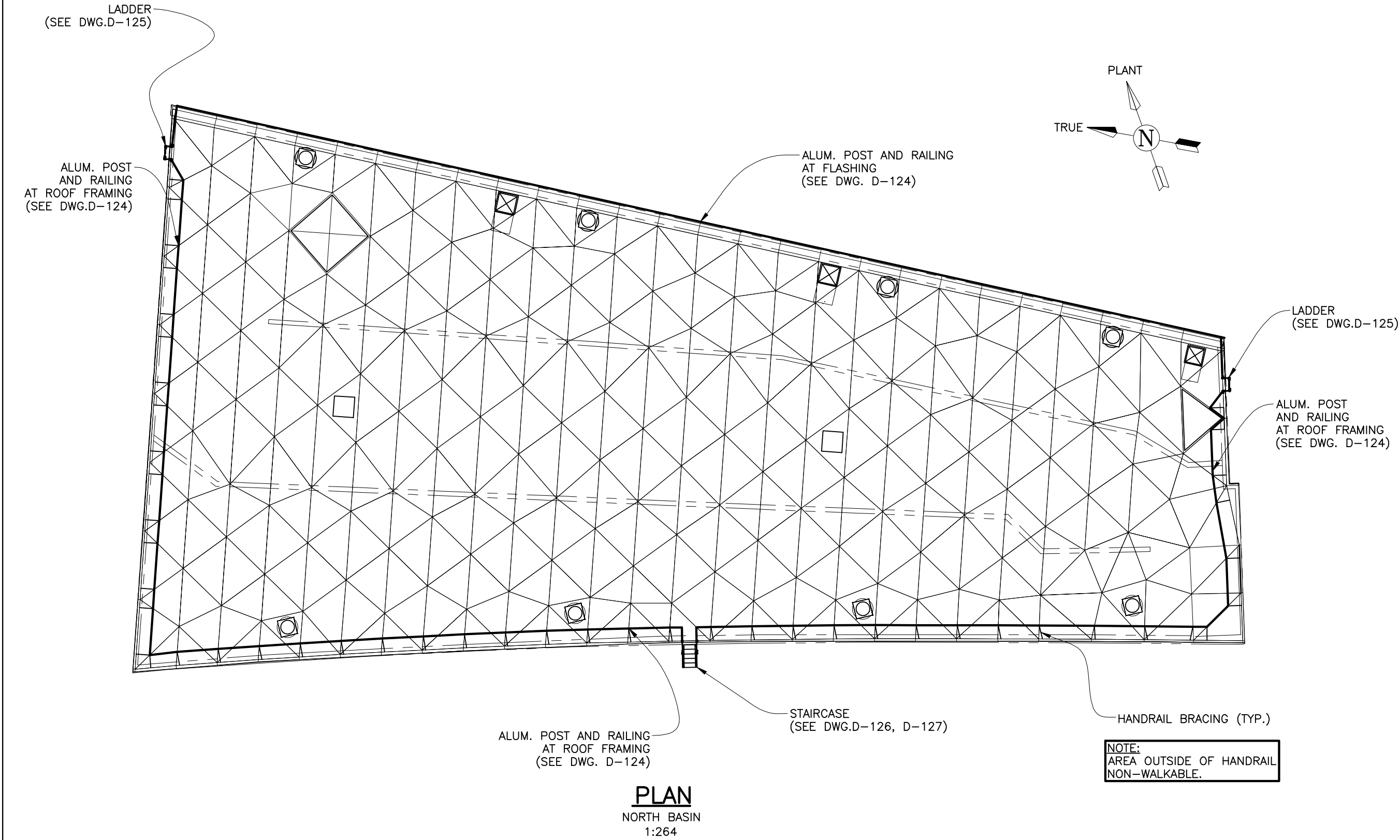
REV. DATE: DRWN BY CHKD BY DESCRIPTION

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CITY OF RICHMOND



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DWG. TITLE		NORTH BASIN PLAN VIEW		<div>TEMCOR</div> <div>879 WEST 190TH STREET GARDENA, CALIF. 90248</div> <div>ALL DESIGNS, IDEAS, PROCESSES OR DEVELOPMENTS ORIGINATED OR DISCLOSED BY TEMCOR ARE PROPRIETARY, PATENTED OR THE SUBJECT MATTER FOR PATENT APPLICATION, AND MAY NOT BE REPRODUCED WITHOUT WRITTEN PERMISSION FROM TEMCOR</div>		CITY OF RICHMOND	
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310002/686401		D-102		0		0	
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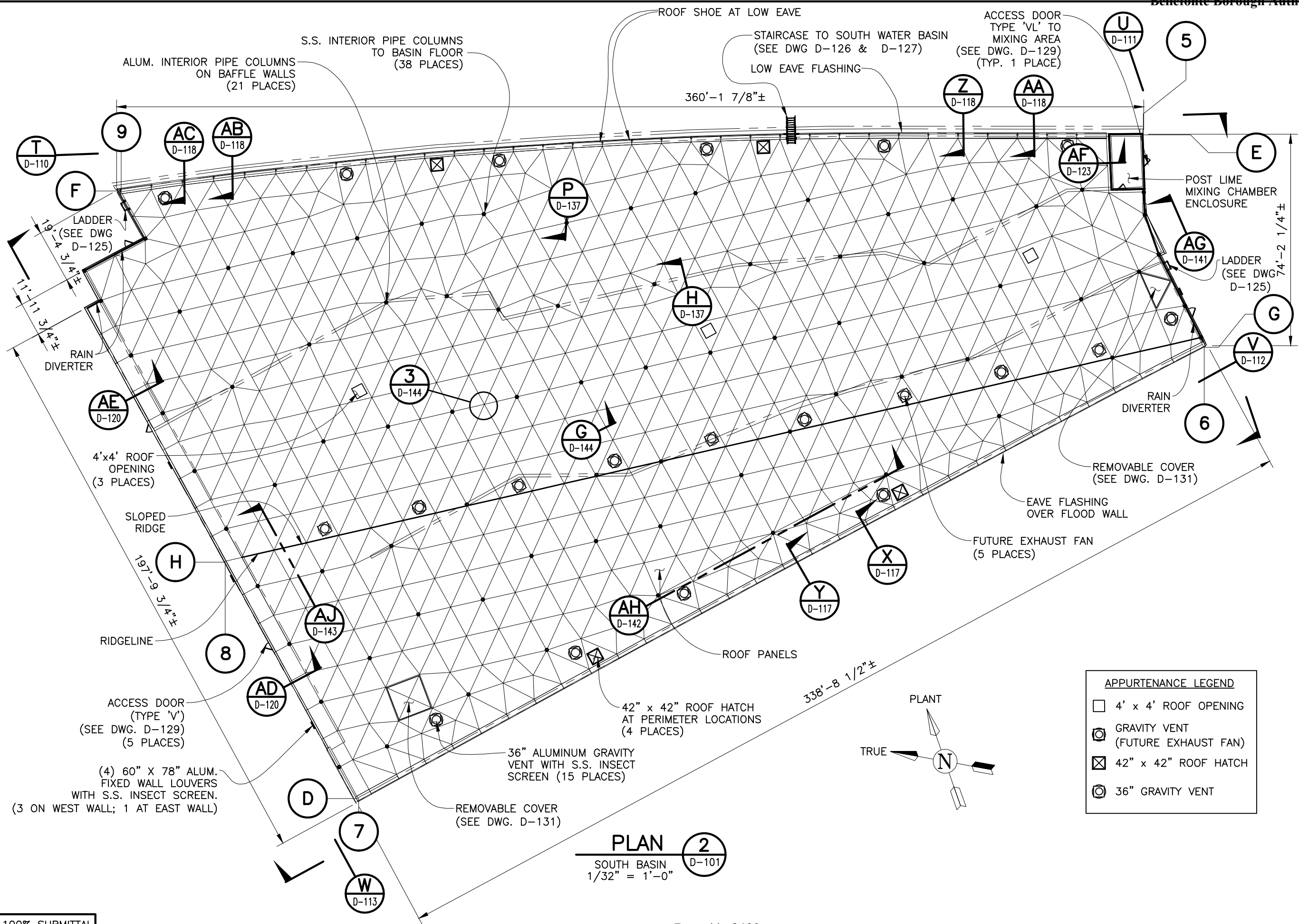
100% SUBMITTAL

DWG. TITLE				NORTH BASIN HANDRAIL PLAN VIEW				<div>TEMPCOR</div> <div>879 WEST 190TH STREET GARDENA, CALIF. 90248</div> <div>ALL DESIGNS, IDEAS, PROCESSES OR DEVELOPMENTS ORIGINATED OR DISCLOSED BY TEMPCOR ARE PROPRIETARY, PATENTED OR THE SUBJECT MATTER FOR PATENT APPLICATION, AND MAY NOT BE REPRODUCED WITHOUT WRITTEN PERMISSION FROM TEMPCOR</div>			
PROJECT DESCRIPTION				FINISHED WATER BASIN COVER PROJECT RICHMOND, VA							
JOB NO. 310002/686401				DRAWING NO. D-103		REVISION 0					
0		12/03/10		GF		DAB		100% PRELIMINARY			
REV.		DATE:		DRWN BY		CHKD BY		DESCRIPTION			
CUSTOMER				CITY OF RICHMOND							

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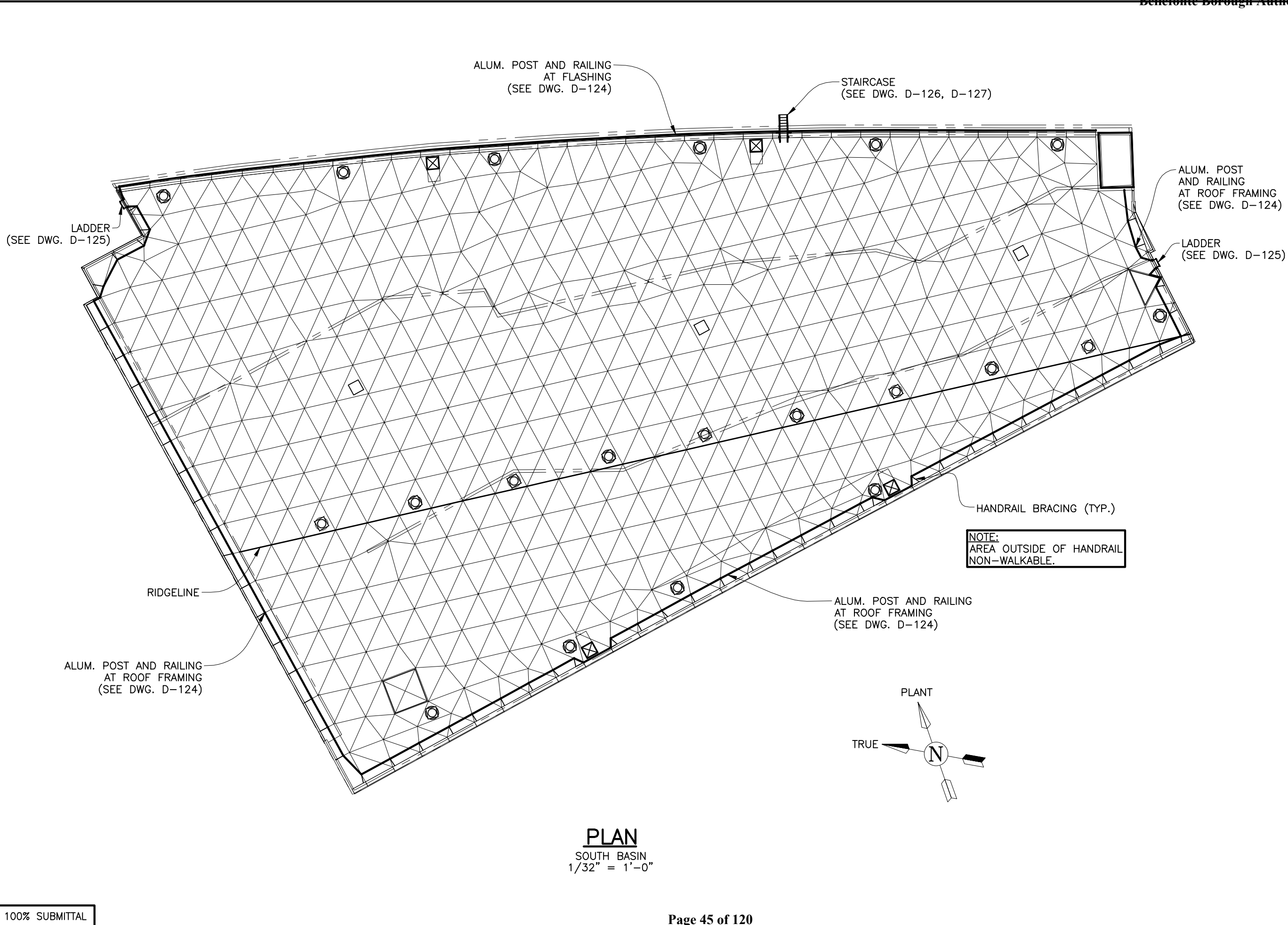


PLAN 2
SOUTH BASIN
1/32" = 1'-0"

100% SUBMITTAL

DWG. TITLE	SOUTH BASIN PLAN VIEW			
	PROJECT DESCRIPTION			
	FINISHED WATER BASIN COVER PROJECT RICHMOND, VA			
JOB NO.	DRAWING NO.	REVISION	CUST. CONTR. NO.	CITY OF RICHMOND
310002/686401	D-104	0		
REV.		DATE:	DRWN BY	CHKD BY
0		12/03/10	RWR	DAB
100% PRELIMINARY		DESCRIPTION		

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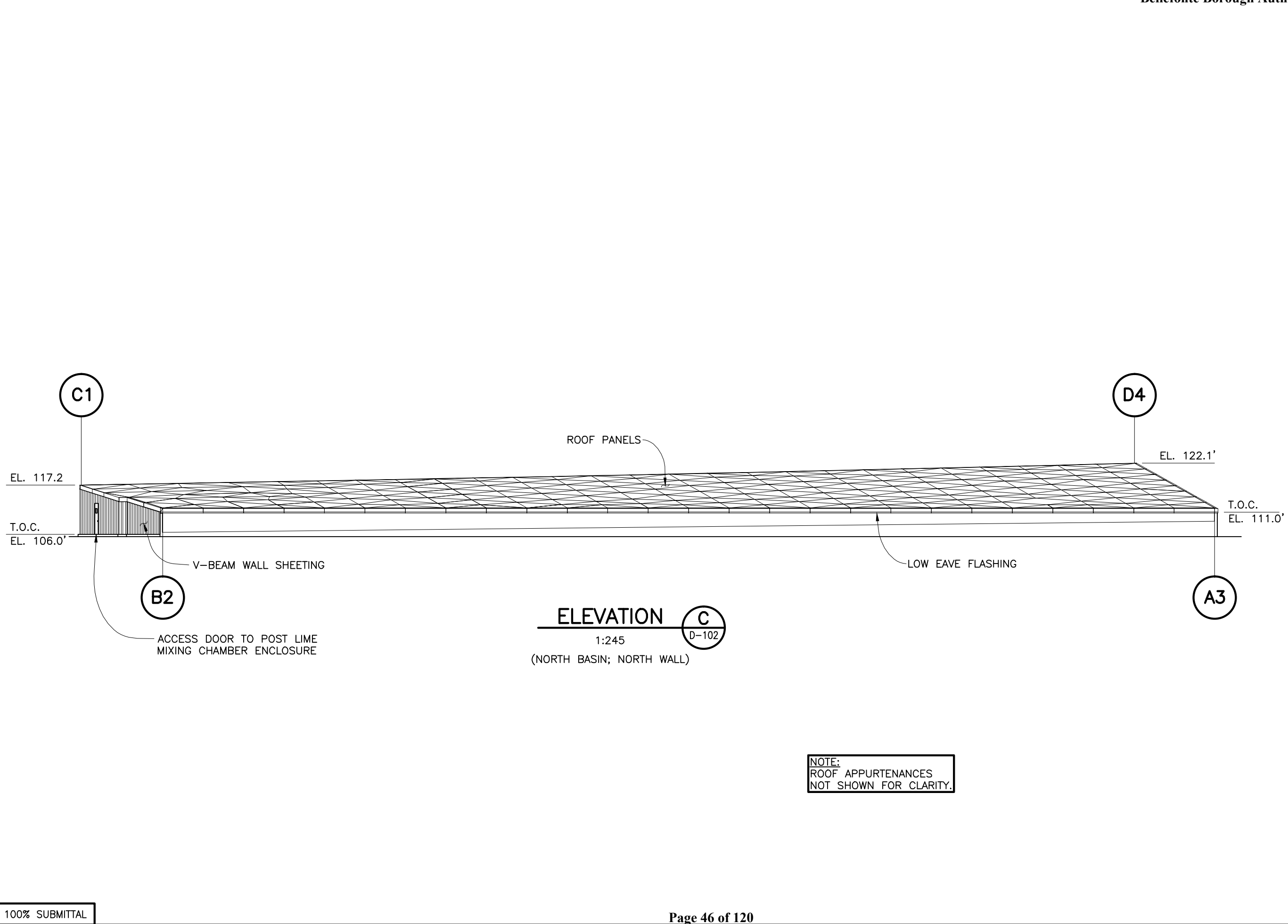
100% SUBMITTAL

DWG. TITLE				SOUTH BASIN HANDRAIL PLAN VIEW				<div>TEMCOR</div> <div>879 WEST 190TH STREET GARDENA, CALIF. 90248</div> <div>ALL DESIGNS, IDEAS, PROCESSES OR DEVELOPMENTS ORIGINATED OR DISCLOSED BY TEMCOR ARE PROPRIETARY, PATENTED OR THE SUBJECT MATTER FOR PATENT APPLICATION, AND MAY NOT BE REPRODUCED WITHOUT WRITTEN PERMISSION FROM TEMCOR</div>			
PROJECT DESCRIPTION											
FINISHED WATER BASIN COVER PROJECT RICHMOND, VA											
JOB NO.		DRAWING NO.		REVISION		CUST. CONTR. NO.		CITY OF RICHMOND			
310002/686401		D-105		0				CUSTOMER			
0		12/03/10		GF		DAB		100% PRELIMINARY			
REV.		DATE:		DRWN BY		CHKD BY		DESCRIPTION			

TEMCOR

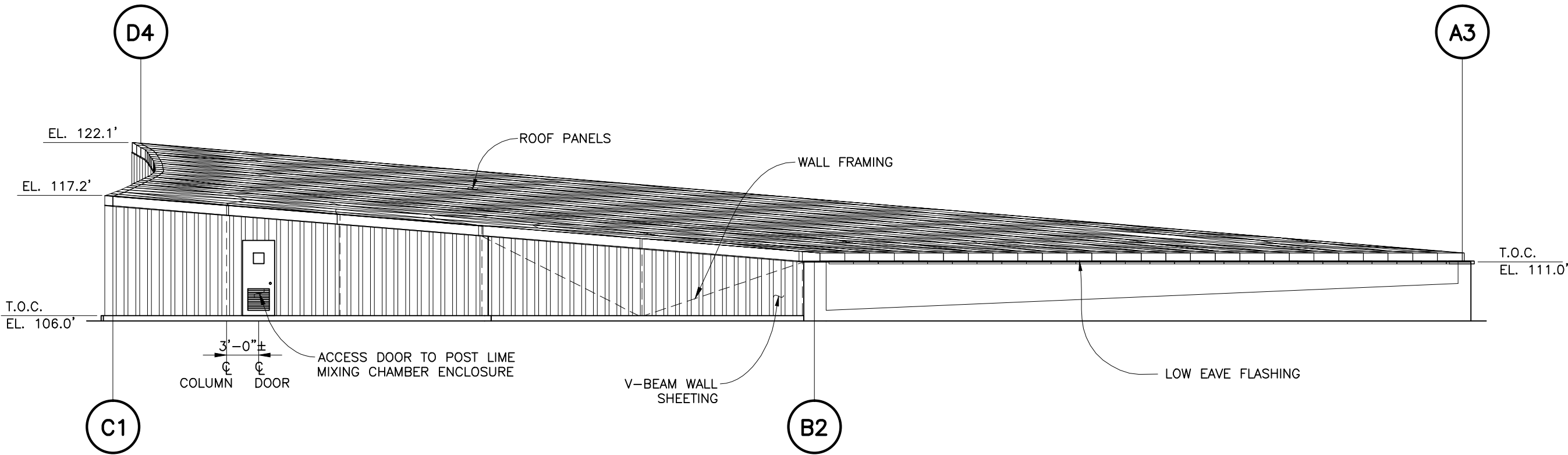
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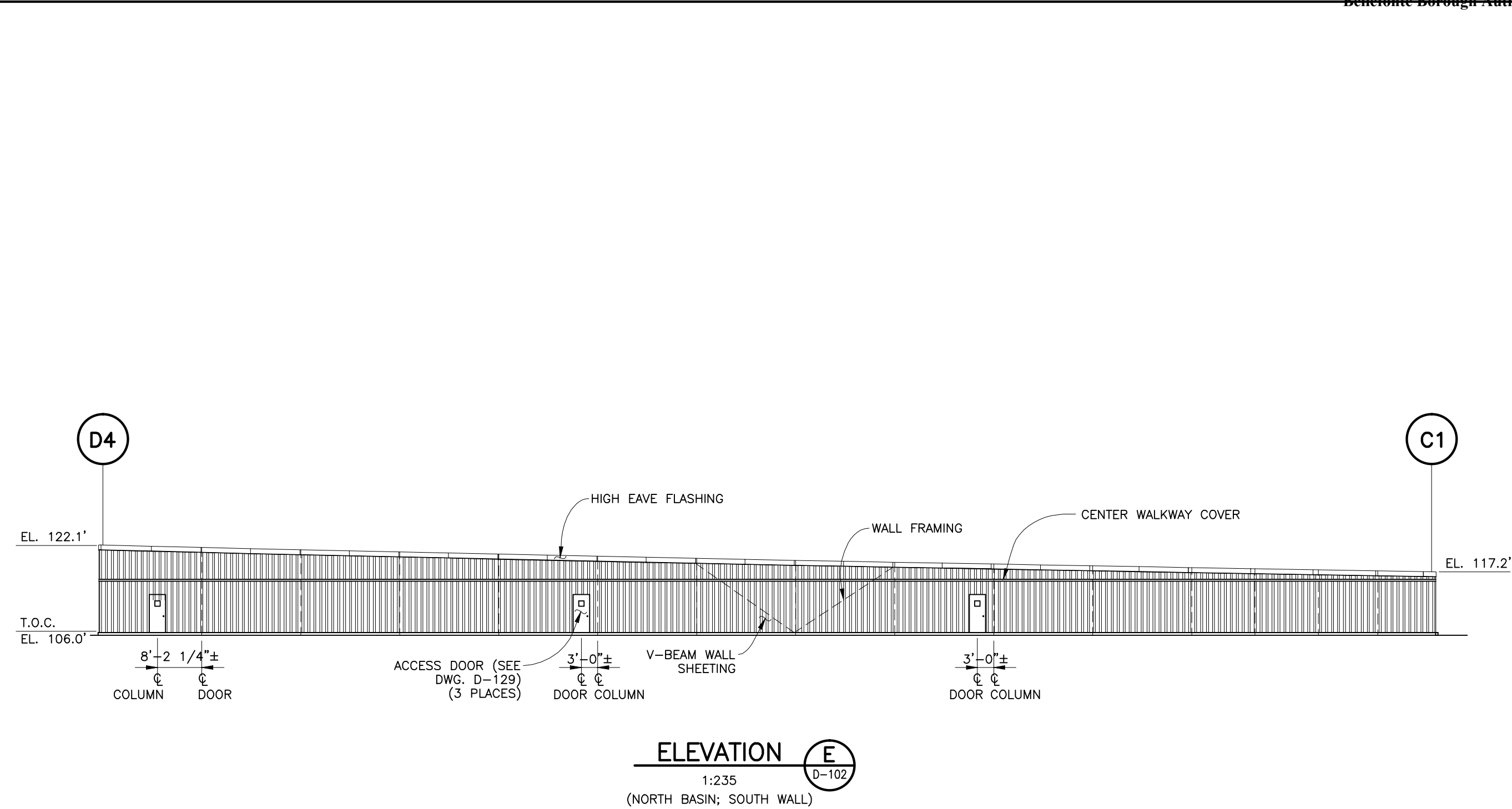
DWG. TITLE				NORTH BASIN ELEVATION VIEW				<div>TEMCOR</div> <div>879 WEST 190th STREET GARDENA, CALIF. 90248</div> <div>ALL DESIGNS, IDEAS, PROCESSES OR DEVELOPMENTS ORIGINATED OR DISCLOSED BY TEMCOR ARE PROPRIETARY, PATENTED OR THE SUBJECT MATTER FOR PATENT APPLICATION, AND MAY NOT BE REPRODUCED WITHOUT WRITTEN PERMISSION FROM TEMCOR</div>				
PROJECT DESCRIPTION												
FINISHED WATER BASIN COVER PROJECT RICHMOND, VA												
JOB NO.		DRAWING NO.		REVISION		CUST. CONTR. NO.		0	12/03/10	JMH	DAB	100% PRELIMINARY
310002/686401		D-106		0				REV.	DATE:	DRWN BY	CHKD BY	DESCRIPTION
CITY OF RICHMOND												



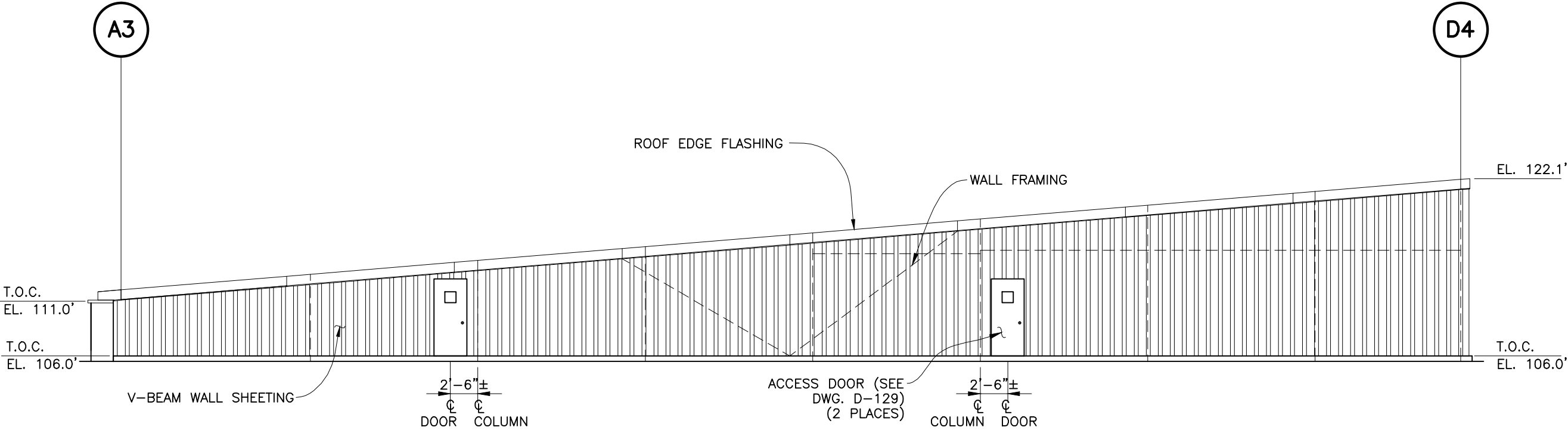
ELEVATION **D**
1:125
(NORTH BASIN; EAST WALL) **D-102**

NOTE:
ROOF APPURTENANCES
NOT SHOWN FOR CLARITY.

DWG. TITLE				NORTH BASIN ELEVATION VIEW				<div>TEMCOR</div> <div>879 WEST 190th STREET GARDENA, CALIF. 90248</div> <div>ALL DESIGNS, IDEAS, PROCESSES OR DEVELOPMENTS ORIGINATED OR DISCLOSED BY TEMCOR ARE PROPRIETARY, PATENTED OR THE SUBJECT MATTER FOR PATENT APPLICATION, AND MAY NOT BE REPRODUCED WITHOUT WRITTEN PERMISSION FROM TEMCOR</div>											
PROJECT DESCRIPTION				FINISHED WATER BASIN COVER PROJECT RICHMOND, VA															
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REV.		DATE:		DRWN BY		CHKD BY		DESCRIPTION											
CUSTOMER																CITY OF RICHMOND			



DWG. TITLE		NORTH BASIN ELEVATION VIEW				TEMCOR 879 WEST 190th STREET GARDENA, CALIF. 90248				ALL DESIGNS, IDEAS, PROCESSES OR DEVELOPMENTS ORIGINATED OR DISCLOSED BY TEMCOR ARE PROPRIETARY, PATENTED OR THE SUBJECT MATTER FOR PATENT APPLICATION, AND MAY NOT BE REPRODUCED WITHOUT WRITTEN PERMISSION FROM TEMCOR			
PROJECT DESCRIPTION		FINISHED WATER BASIN COVER PROJECT RICHMOND, VA											
JOB NO.	DRAWING NO.	REVISION	CUST. CONTR. NO.										
310002/686401	D-108	0											
								</					



ELEVATION F
1:125
(NORTH BASIN; WEST WALL)

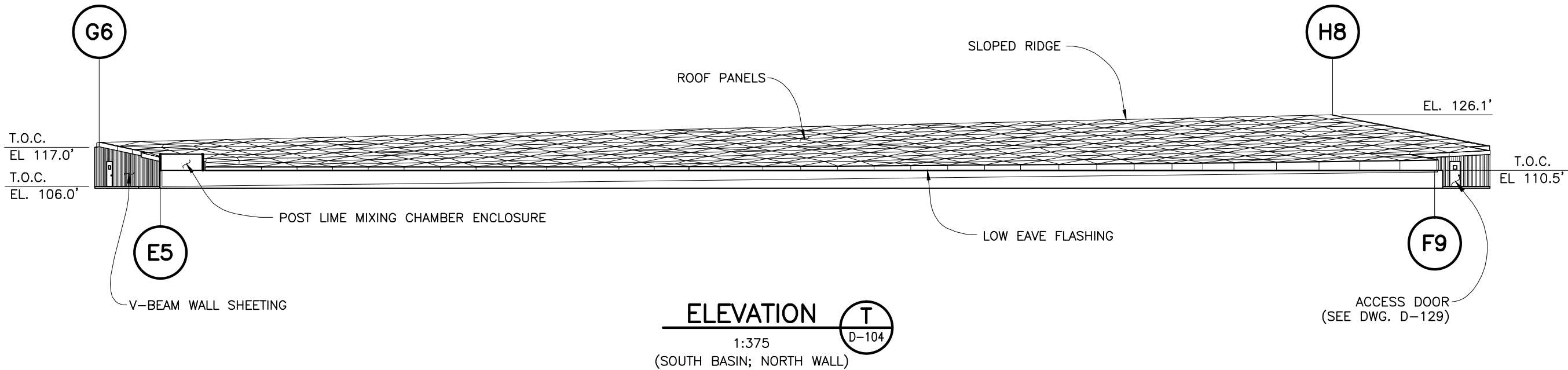
NOTE:
ROOF APPURTENANCES
NOT SHOWN FOR CLARITY.

DWG. TITLE				NORTH BASIN ELAVATION VIEW				<div>TEMCOR</div> <div>879 WEST 190th STREET GARDENA, CALIF. 90248</div> <div>ALL DESIGNS, IDEAS, PROCESSES OR DEVELOPMENTS ORIGINATED OR DISCLOSED BY TEMCOR ARE PROPRIETARY, PATENTED OR THE SUBJECT MATTER FOR PATENT APPLICATION, AND MAY NOT BE REPRODUCED WITHOUT WRITTEN PERMISSION FROM TEMCOR</div>			
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REV.		DATE:		JMH		DAB		100% PRELIMINARY		DESCRIPTION	
0		12/03/10									
CUSTOMER				CITY OF RICHMOND							

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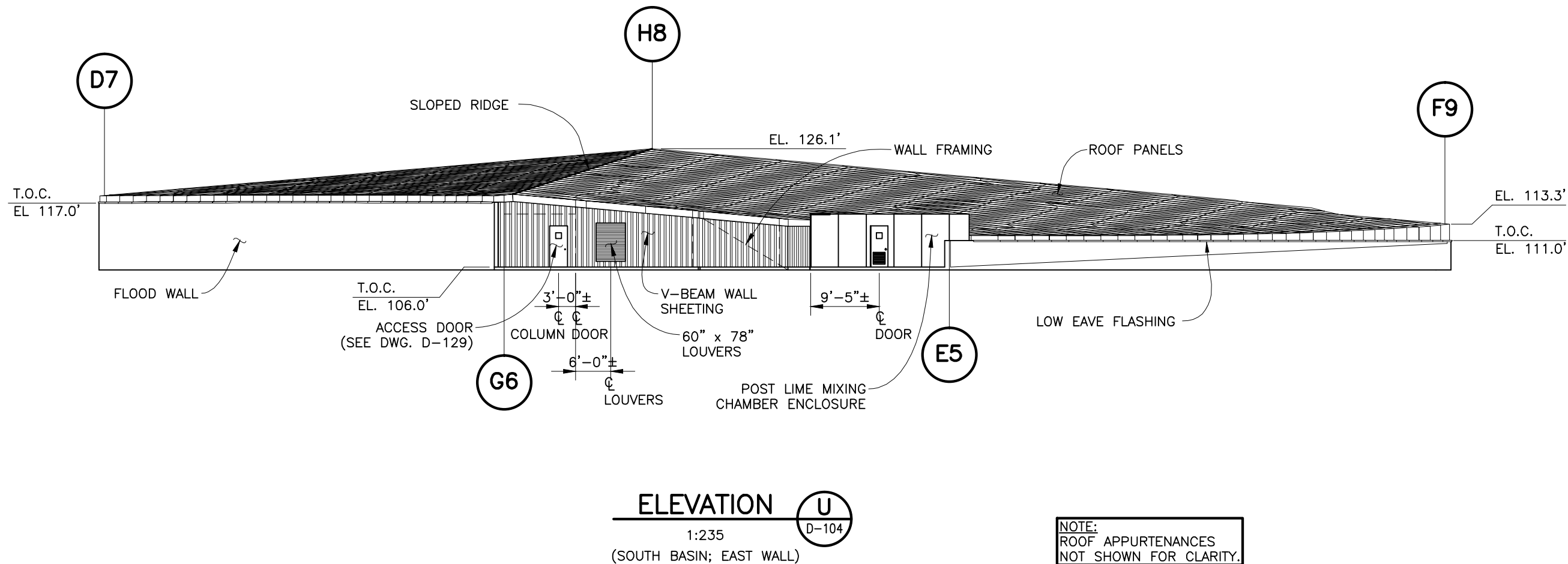
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DWG. TITLE		SOUTH BASIN ELEVATION VIEW	
PROJECT DESCRIPTION		FINISHED WATER BASIN COVER PROJECT RICHMOND, VA	
JOB NO.	DRAWING NO.	REVISION	CUST. CONTR. NO.
310002/686401	D-110	0	

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REV.	DATE:	DRWN BY	CHKD BY	DESCRIPTION
CUSTOMER				CITY OF RICHMOND



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DWG. TITLE

SOUTH BASIN ELEVATION VIEW

PROJECT DESCRIPTION
FINISHED WATER BASIN COVER PROJECT
RICHMOND, VA

JOB NO.
310002/686401

DRAWING NO.
D-111

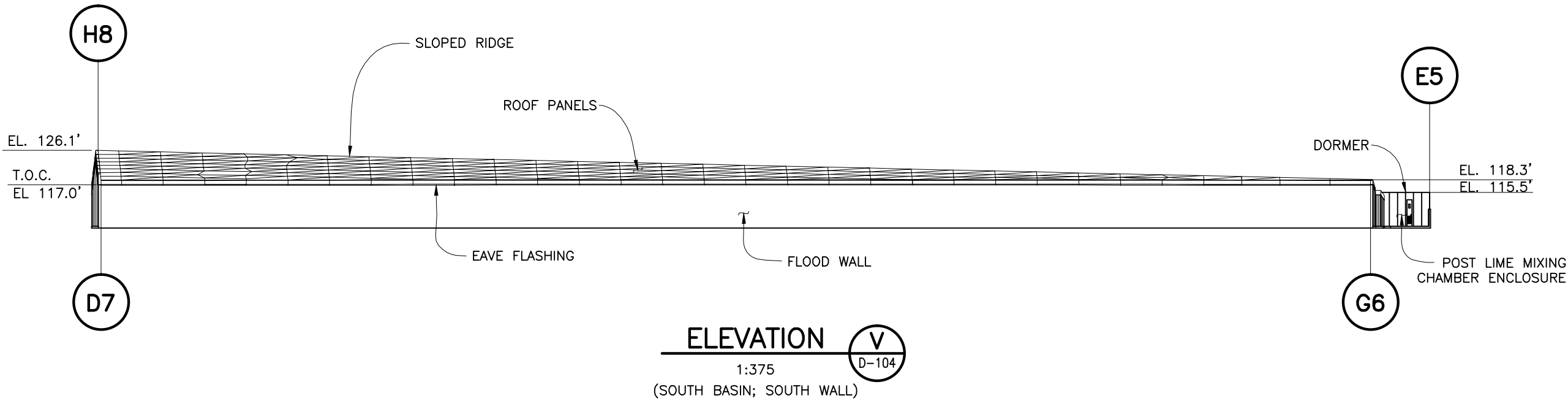
REVISION
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CUST. CONTR. NO.

0 12/03/10 JMH DAB 100% PRELIMINARY

REV. DATE: DRWN BY CHKD BY DESCRIPTION

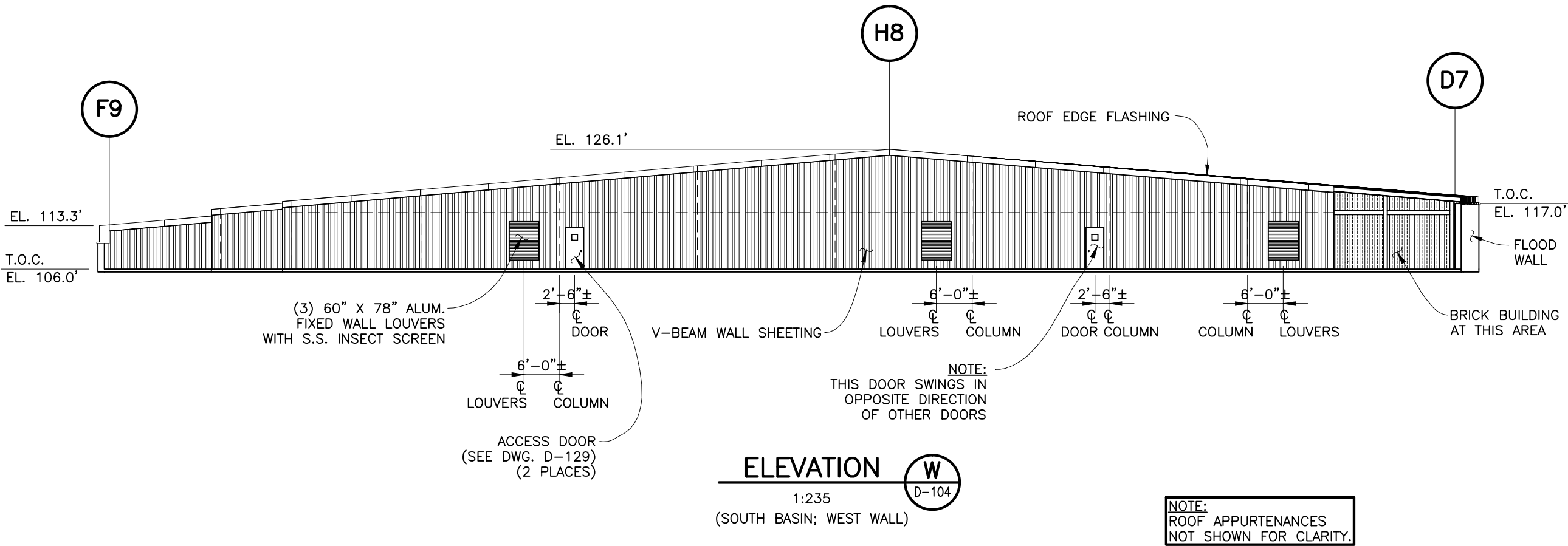
CUSTOMER
CITY OF RICHMOND



DWG. TITLE				SOUTH BASIN ELEVATION VIEW				<div>TEMCOR</div> <div>879 WEST 190TH STREET GARDENA, CALIF. 90248</div>				CITY OF RICHMOND			
PROJECT DESCRIPTION				FINISHED WATER BASIN COVER PROJECT RICHMOND, VA				ALL DESIGNS, IDEAS, PROCESSES OR DEVELOPMENTS ORIGINATED OR DISCLOSED BY TEMCOR ARE PROPRIETARY, PATENTED OR THE SUBJECT MATTER FOR PATENT APPLICATION, AND MAY NOT BE REPRODUCED WITHOUT WRITTEN PERMISSION FROM TEMCOR				CUSTOMER			
JOB NO.		DRAWING NO.		REVISION		CUST. CONTR. NO.		0	12/03/10	JMH	DAB	100% PRELIMINARY	DESCRIPTION		
310002/686401		D-112		0				REV.	DATE:	DRWN BY	CHKD BY				

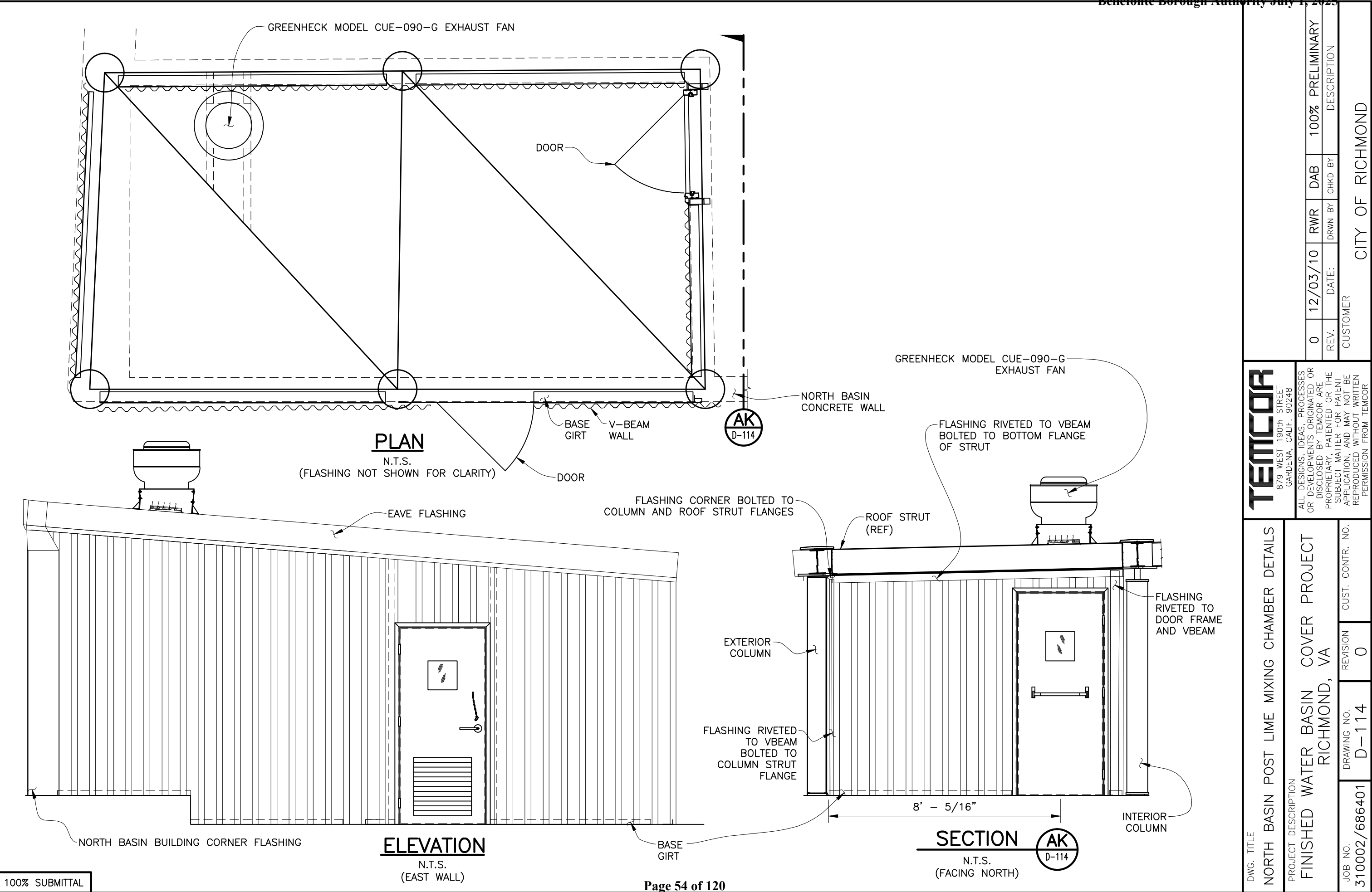
TEMCOR
879 WEST 190th STREET
GARDENA, CALIF. 90248

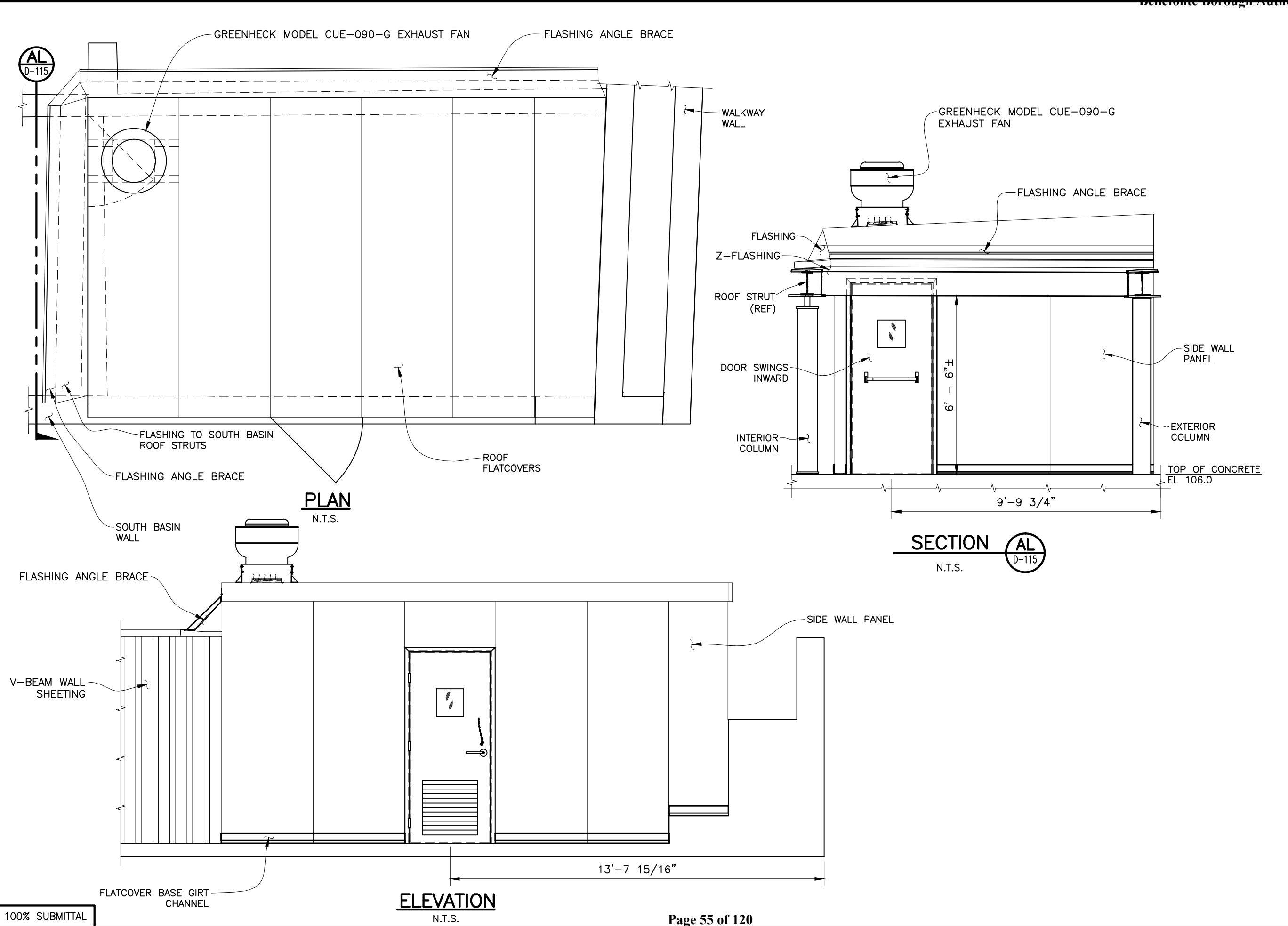
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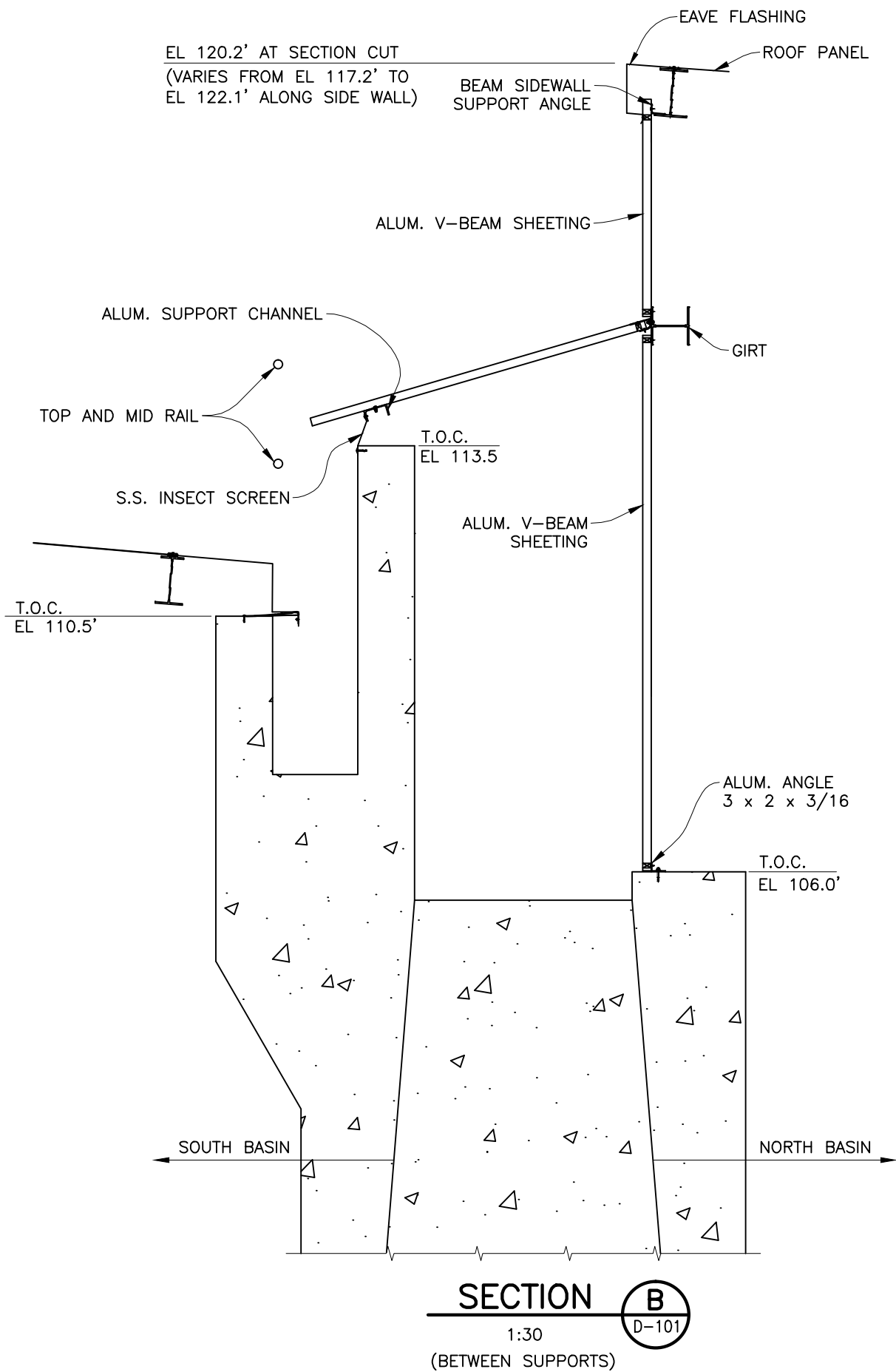
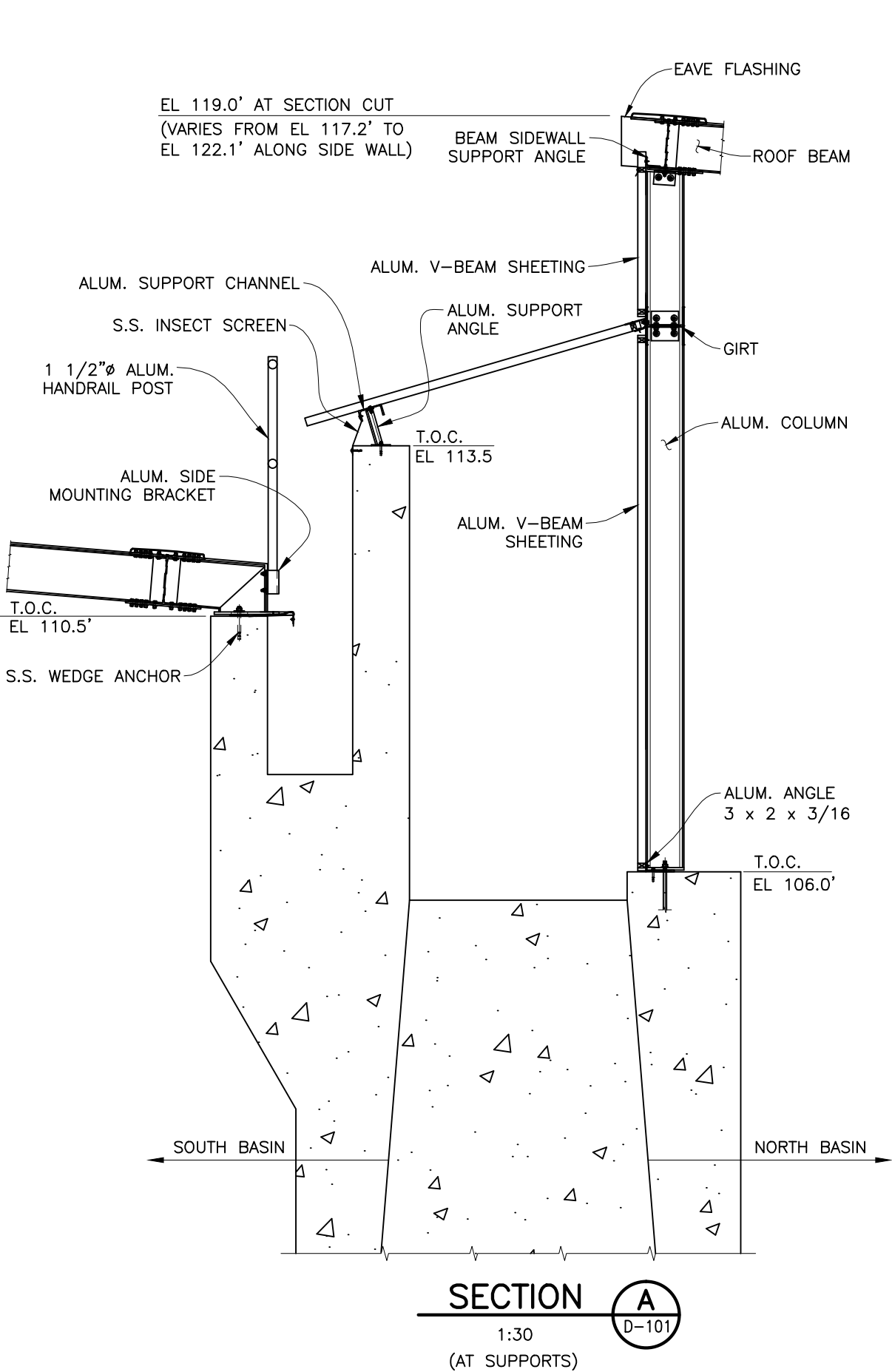
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DWG. TITLE				SOUTH BASIN POST LIME MIXING CHAMBER DETAILS				<div>TEMPCOR</div> <div>879 WEST 190TH STREET GARDENA, CALIF. 90248</div>									
PROJECT DESCRIPTION				FINISHED WATER BASIN COVER PROJECT RICHMOND, VA				ALL DESIGNS, IDEAS, PROCESSES OR DEVELOPMENTS ORIGINATED OR DISCLOSED BY TEMPCOR ARE PROPRIETARY, PATENTED OR THE SUBJECT MATTER FOR PATENT APPLICATION, AND MAY NOT BE REPRODUCED WITHOUT WRITTEN PERMISSION FROM TEMPCOR									
JOB NO.		DRAWING NO.		REVISION		CUST. CONTR. NO.		REV.		12/03/10		RWR		DAB		100% PRELIMINARY	
310002/686401		D-115		0						DATE:		DRWN BY		CHKD BY		DESCRIPTION	
								CITY OF RICHMOND									



DWG. TITLE

CENTER WALKWAY SECTIONS

PROJECT DESCRIPTION

FINISHED WATER BASIN COVER PROJECT
RICHMOND, VA

JOB NO.

310002/686401

DRAWING NO.

D-116

REVISION

0

CUST. CONTR. NO.

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GARDENA, CALIF. 90248

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12/03/10

ARG

DAB

100% PRELIMINARY

REV.

DATE:

DRWN BY

CHKD BY

DESCRIPTION

CUSTOMER

CITY OF RICHMOND

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12/03/10

ARG

DAB

100% PRELIMINARY

REV.

DATE:

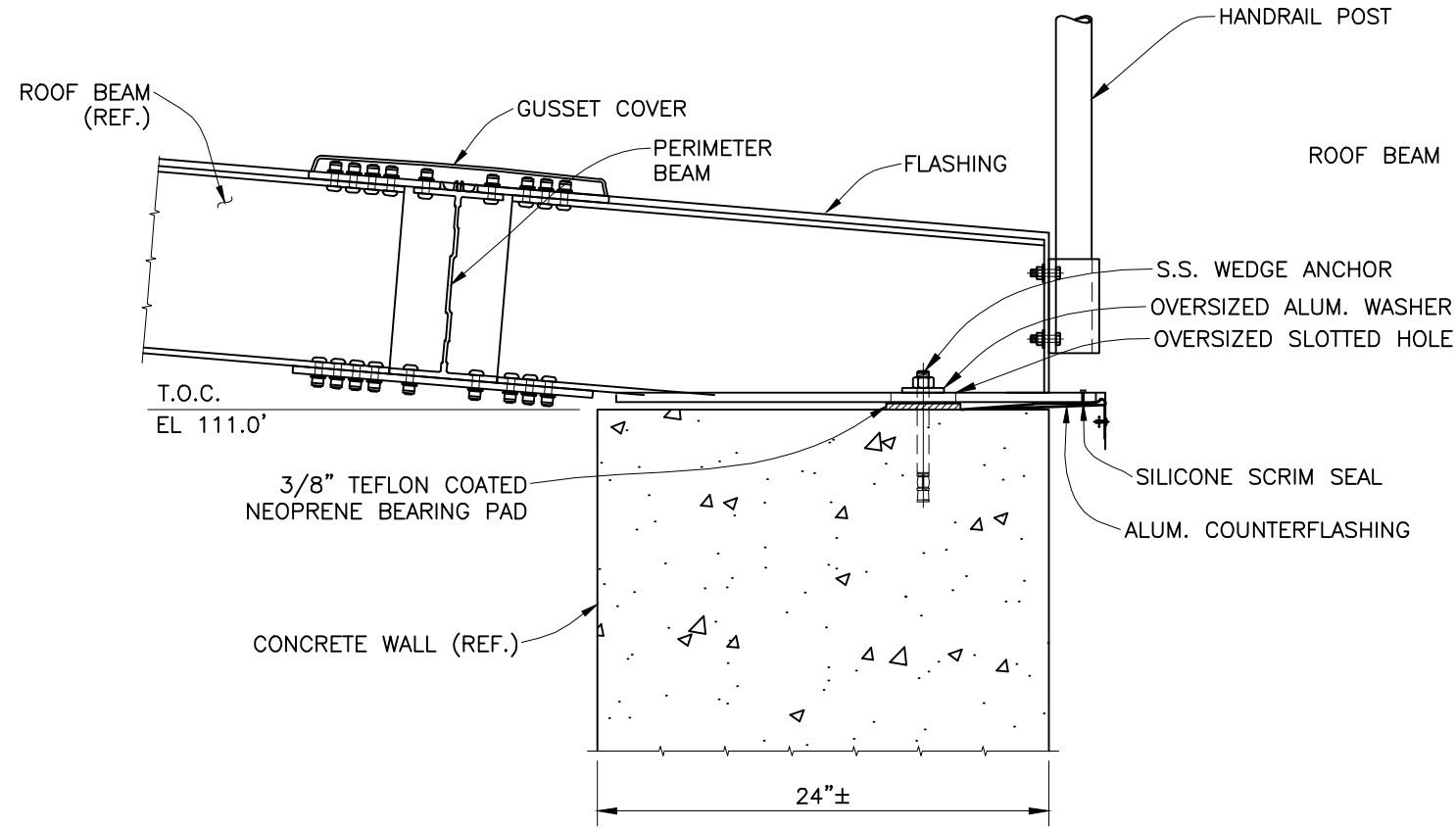
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CHKD BY

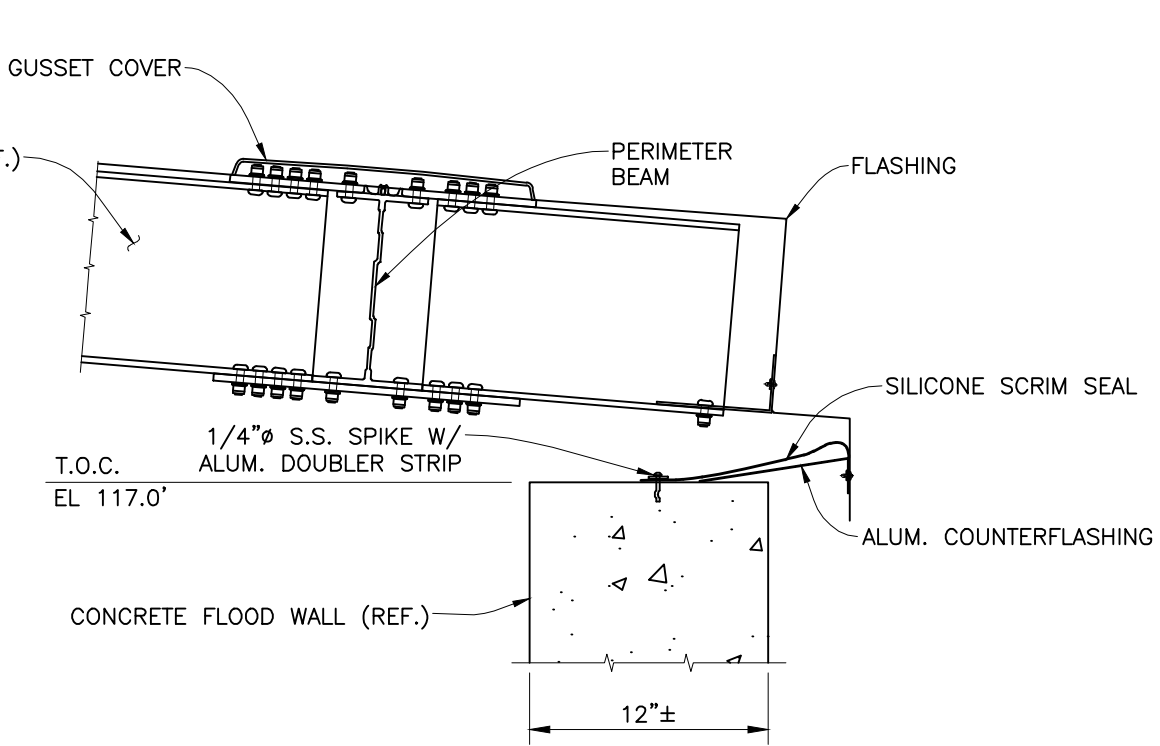
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CUSTOMER

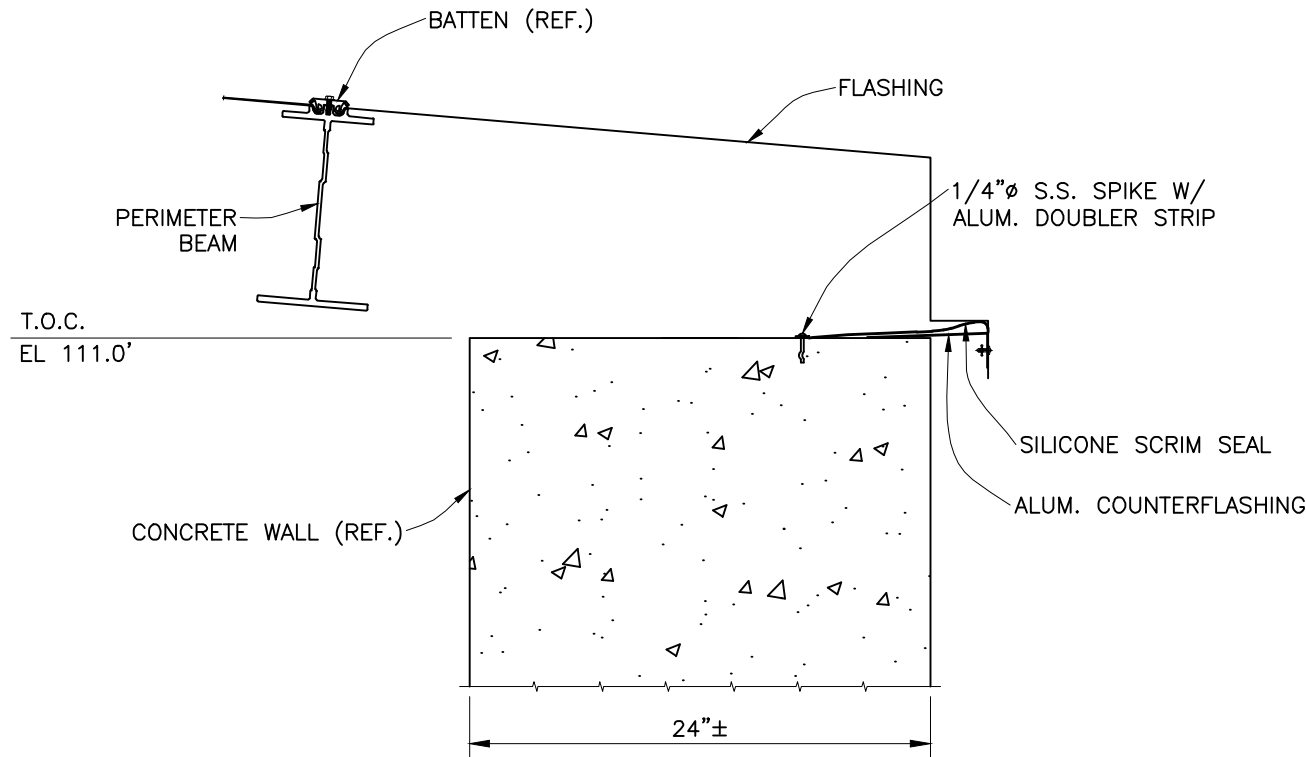
CITY OF RICHMOND



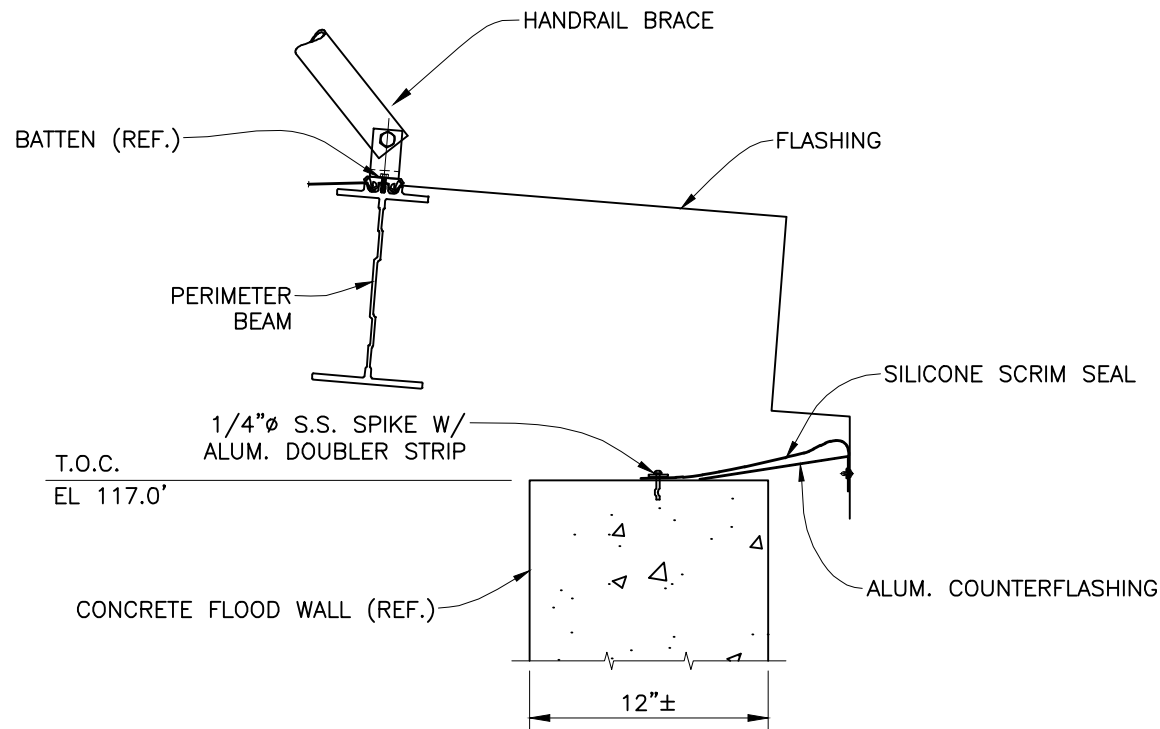
SECTION J
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(NORTH BASIN; NORTH WALL)
D-102



SECTION X
1:10
(SOUTH BASIN; SOUTH WALL)
D-104

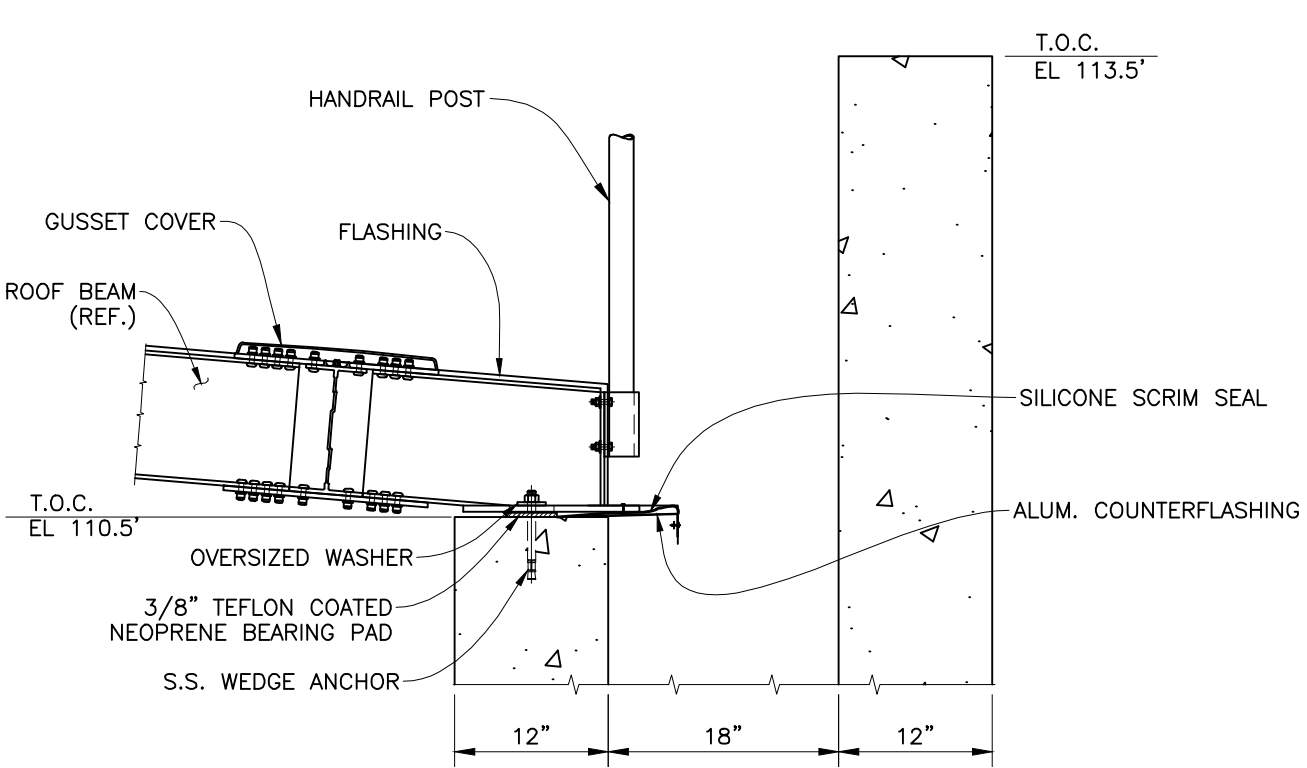


SECTION K
1:10
(NORTH BASIN; NORTH WALL)
D-102
HANDRAIL NOT SHOWN FOR CLARITY

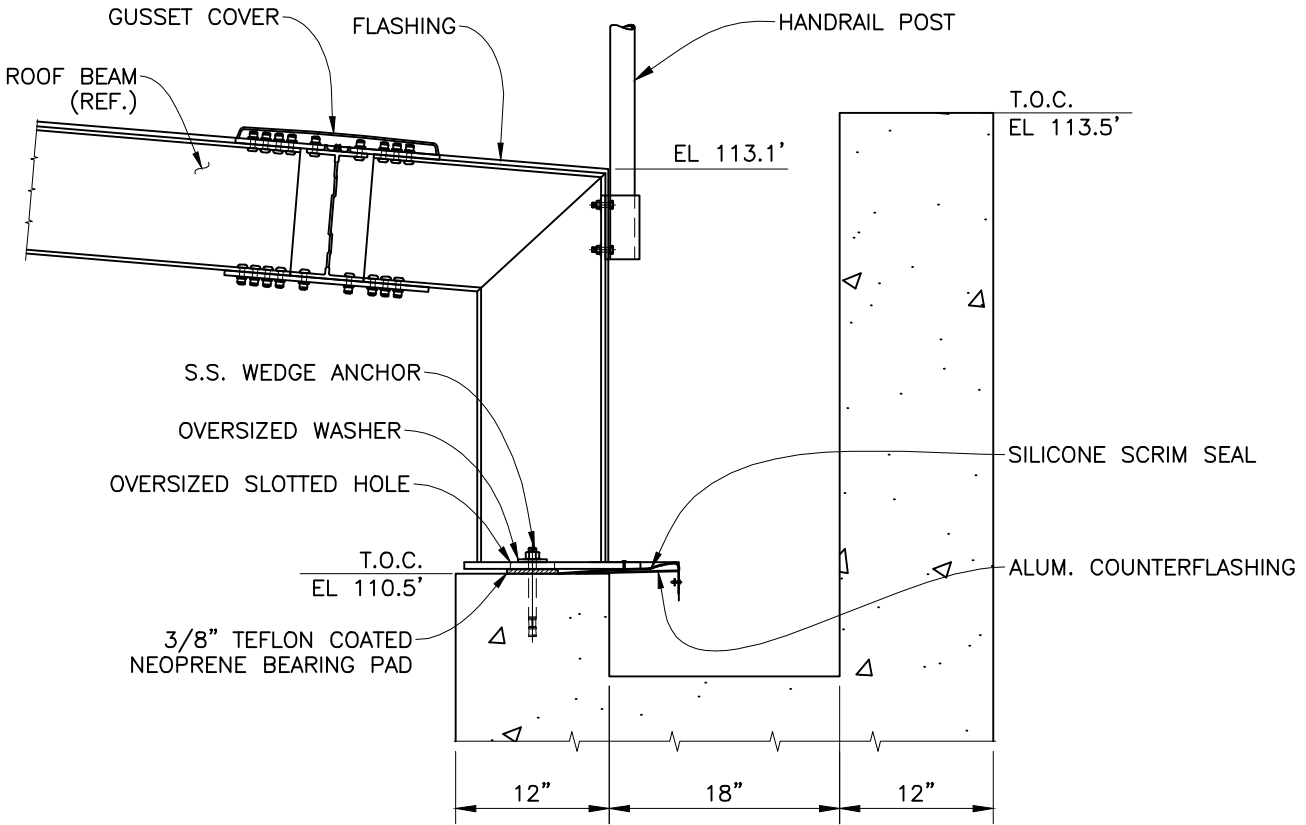


SECTION Y
1:10
(SOUTH BASIN; SOUTH WALL)
D-104
HANDRAIL NOT SHOWN FOR CLARITY

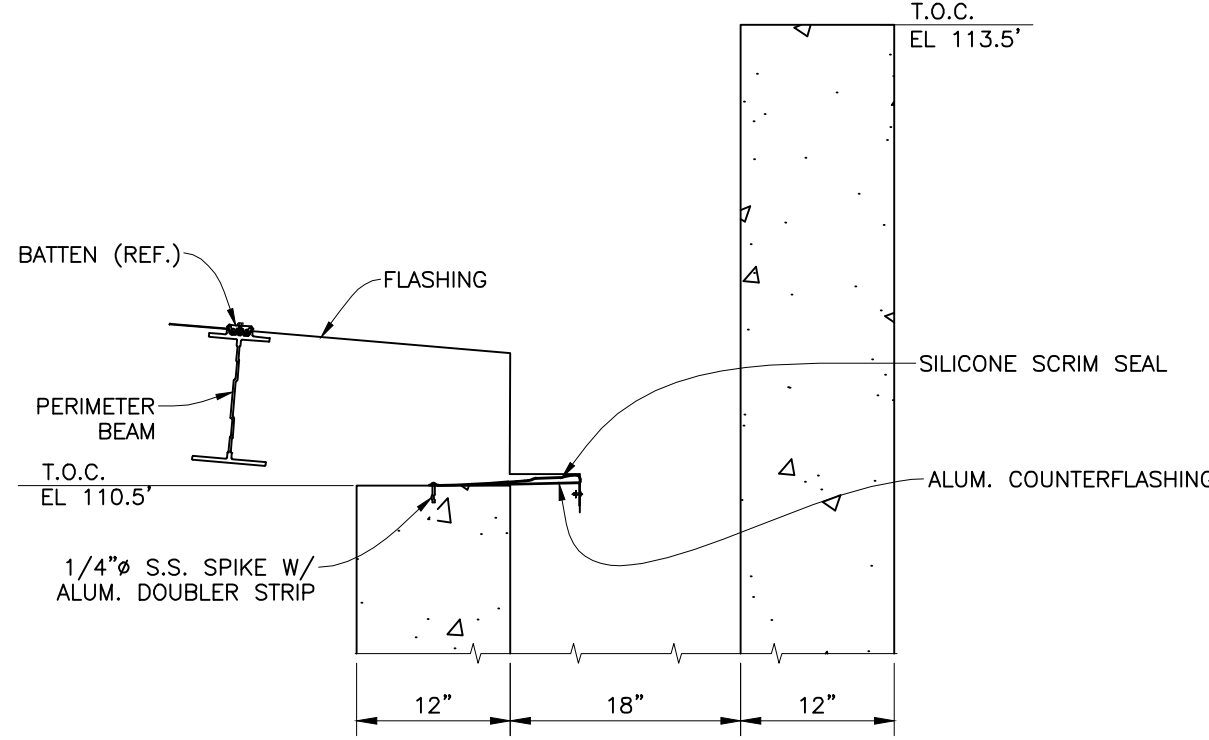
DWG. TITLE		SHOE & FLASHING DETAIL	
PROJECT DESCRIPTION			
FINISHED WATER BASIN COVER PROJECT			
RICHMOND, VA			
JOB NO.	DRAWING NO.	REVISION	CUST. CONTR. NO.
310002/686401	D-117	0	
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879 WEST 190TH STREET GARDENA, CALIF. 90248			



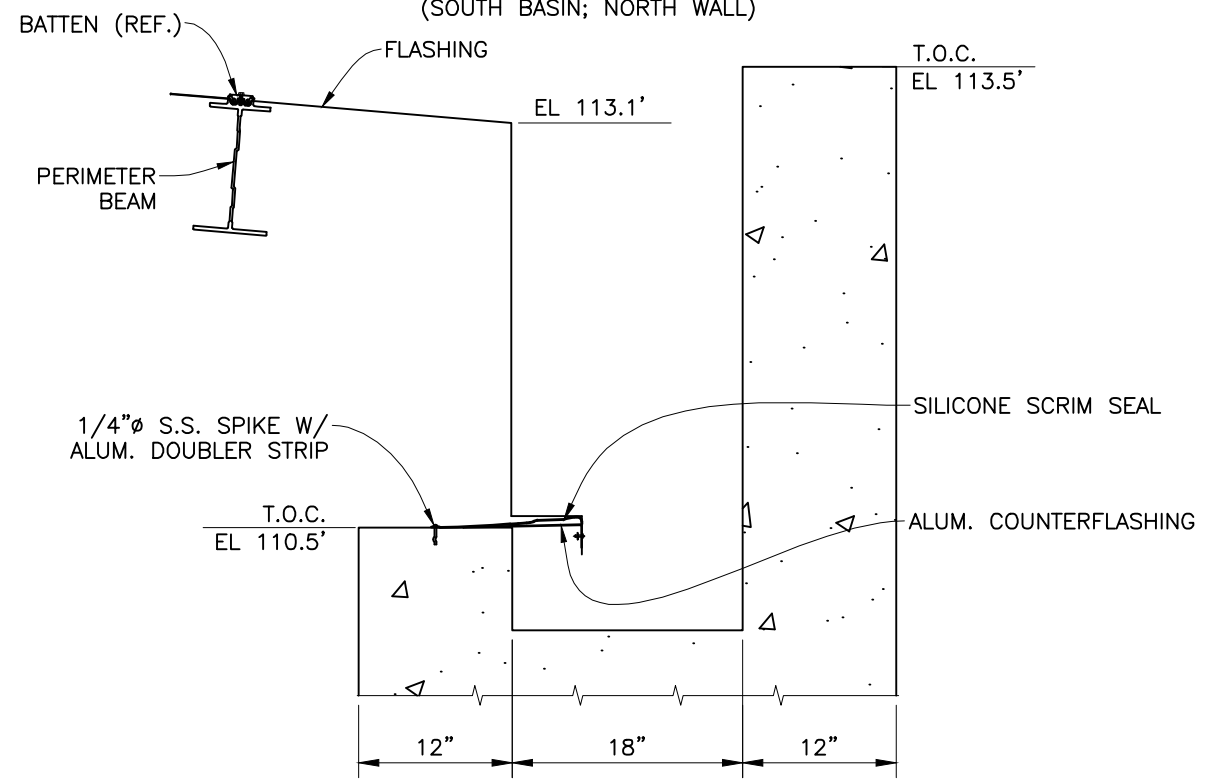
SECTION AA
1:15
(AT SUPPORTS)
(SOUTH BASIN; NORTH WALL)
D-104



SECTION AC
1:15
(AT SUPPORTS)
(SOUTH BASIN; NORTH WALL)
D-104



SECTION Z
1:15
(BETWEEN SUPPORTS)
(SOUTH BASIN; NORTH WALL)
D-104
HANDRAIL NOT SHOWN FOR CLARITY



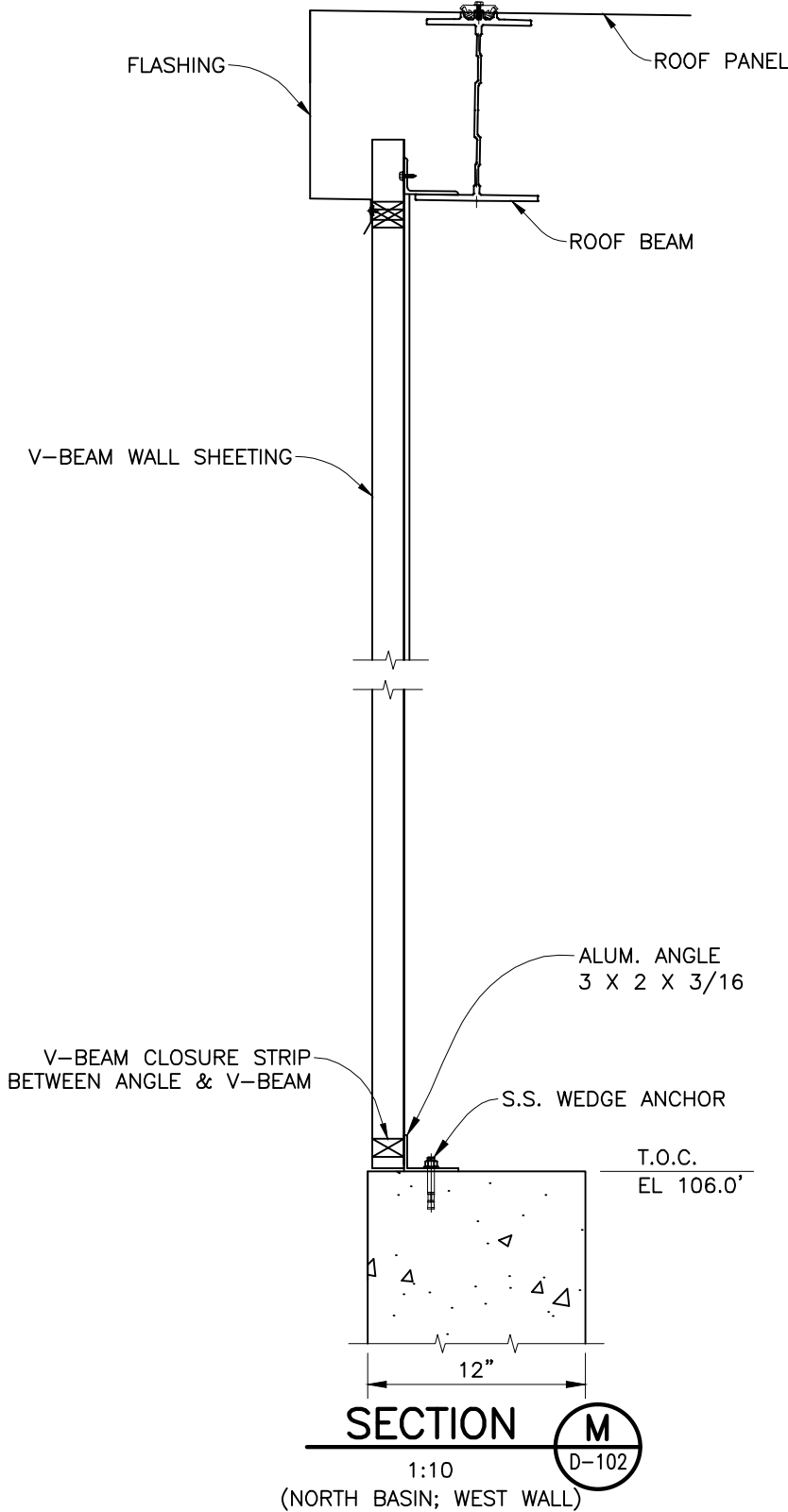
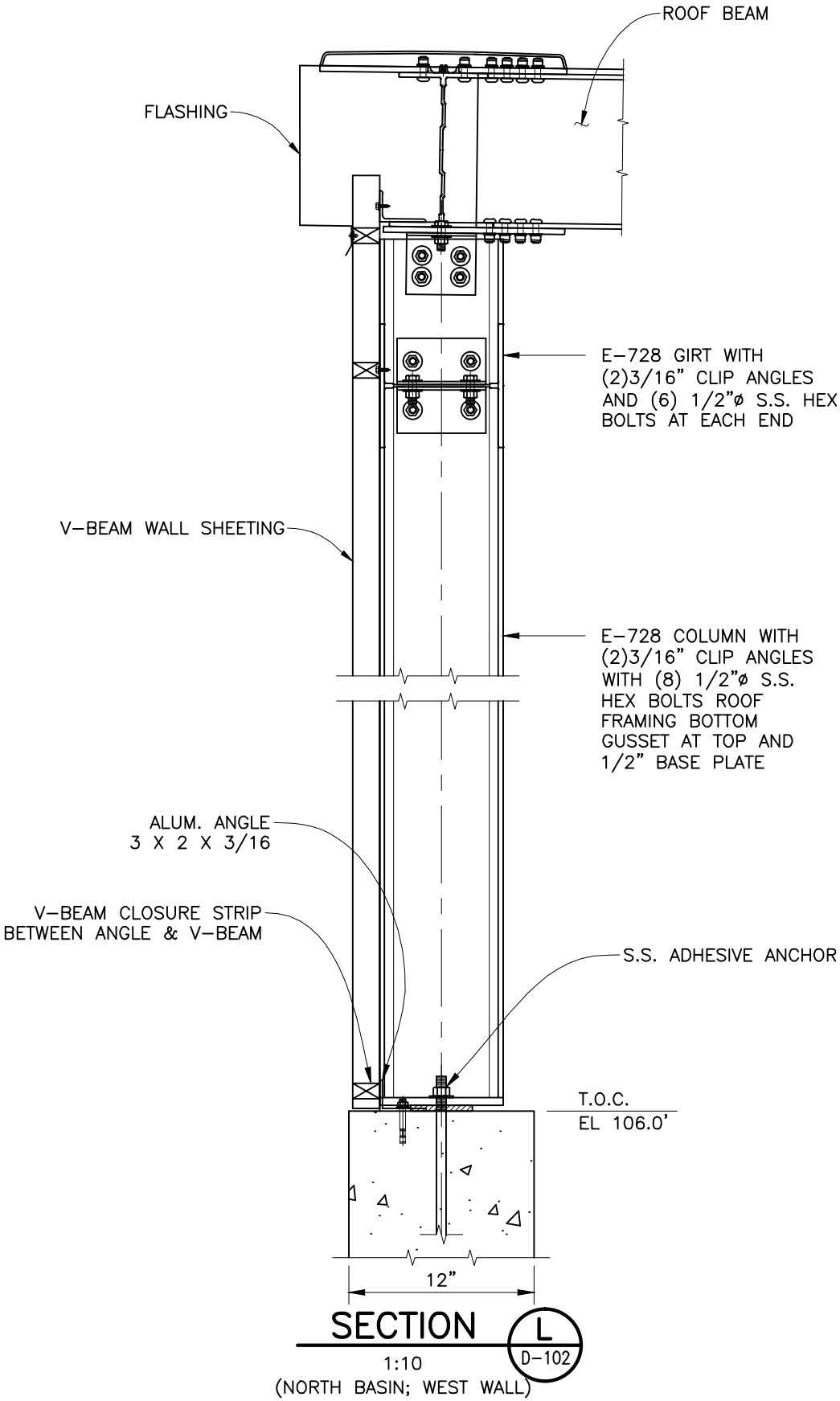
SECTION AB
1:15
(BETWEEN SUPPROTS)
(SOUTH BASIN; NORTH WALL)
D-104
HANDRAIL NOT SHOWN FOR CLARITY

100% SUBMITTAL

DWG. TITLE	SHOE & FLASHING DETAILS								
	PROJECT DESCRIPTION								
	FINISHED WATER BASIN COVER PROJECT RICHMOND, VA								
	CITY OF RICHMOND								
JOB NO. 310002/686401	DRAWING NO. D-118	REVISION 0	CUST. CONTR. NO.	0	12/03/10	ARG	DAB	100% PRELIMINARY	DESCRIPTION

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DWG. TITLE

NORTH BASIN ENDWALL DETAILS

PROJECT DESCRIPTION

FINISHED WATER BASIN COVER PROJECT
RICHMOND, VA

JOB NO.

310002/686401

DRAWING NO.

D-119

REVISION

0

CUST. CONTR. NO.

TEMCOR

879 WEST 190TH STREET
GARDENA, CALIF. 90248

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REV.

12/03/10

DATE:

JMH

DRWN BY

DAB

CHKD BY

100% PRELIMINARY

DESCRIPTION

CUSTOMER

CITY OF RICHMOND

0

REV.

12/03/10

DATE:

JMH

DRWN BY

DAB

CHKD BY

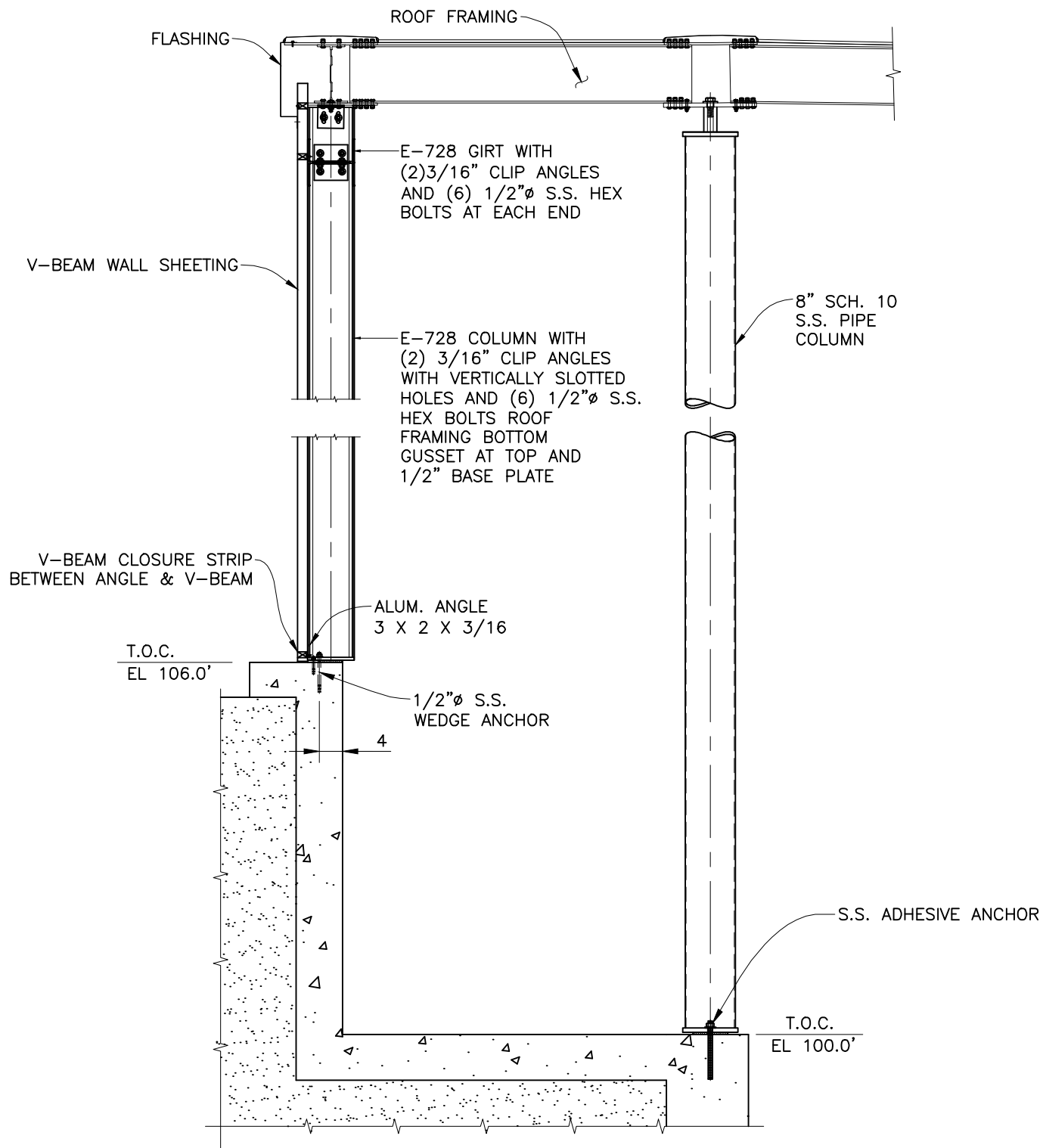
100% PRELIMINARY

DESCRIPTION

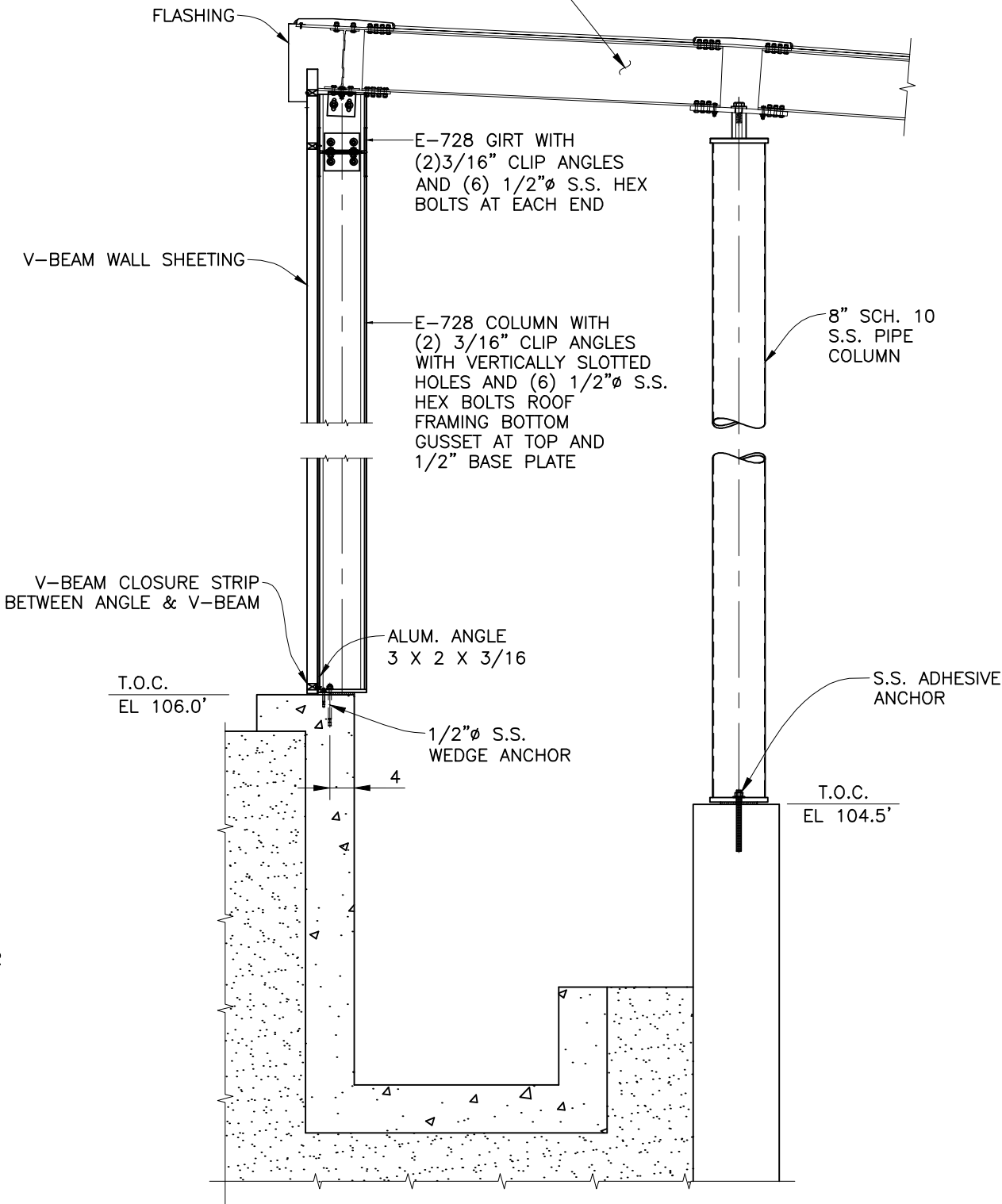
CUSTOMER

CITY OF RICHMOND

City July 1, 2025



SECTION **AD**
1:25
(SOUTH BASIN; WEST WALL)
D-104



SECTION **AE**
1:25
(SOUTH BASIN; WEST WALL)
D-104

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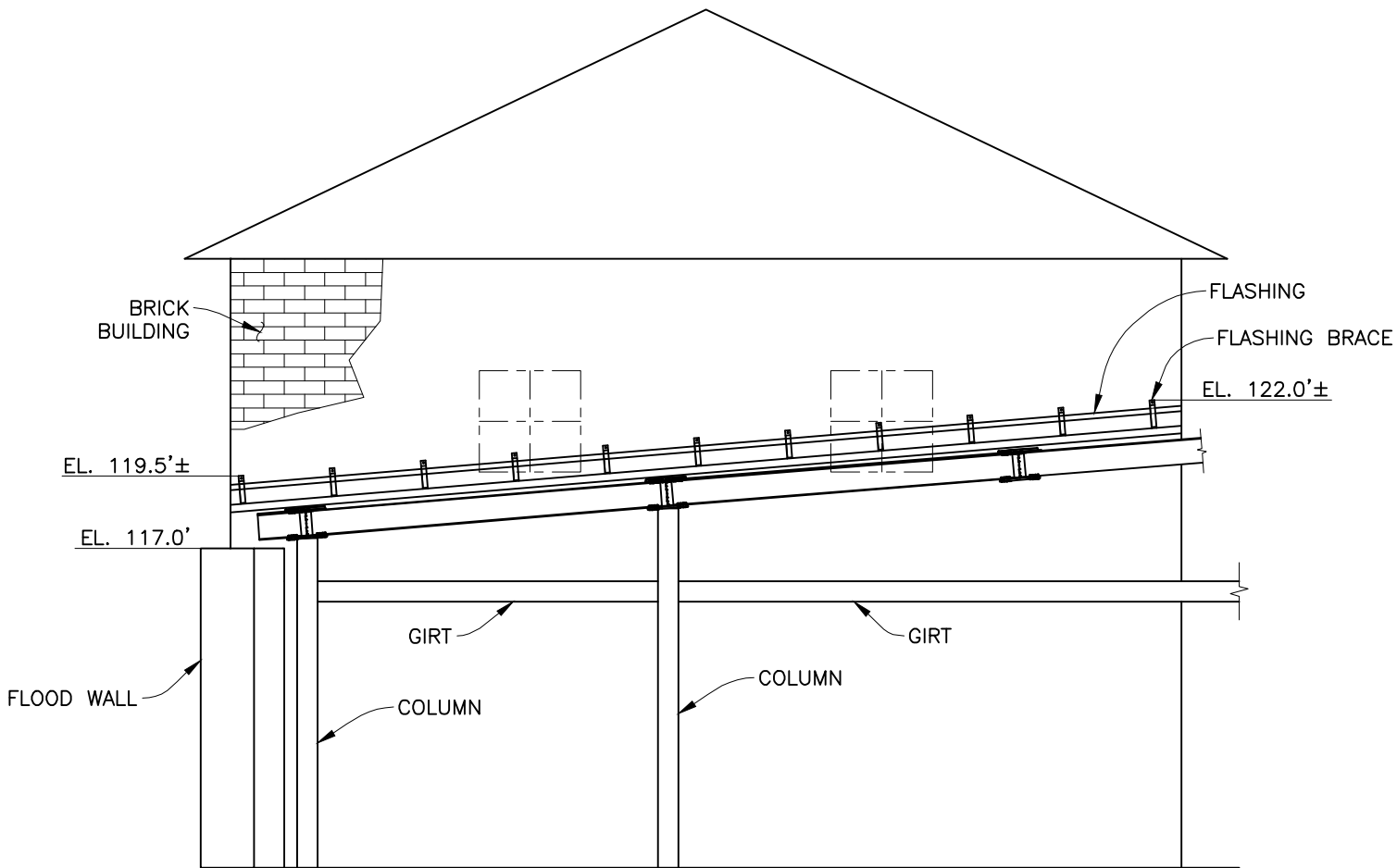
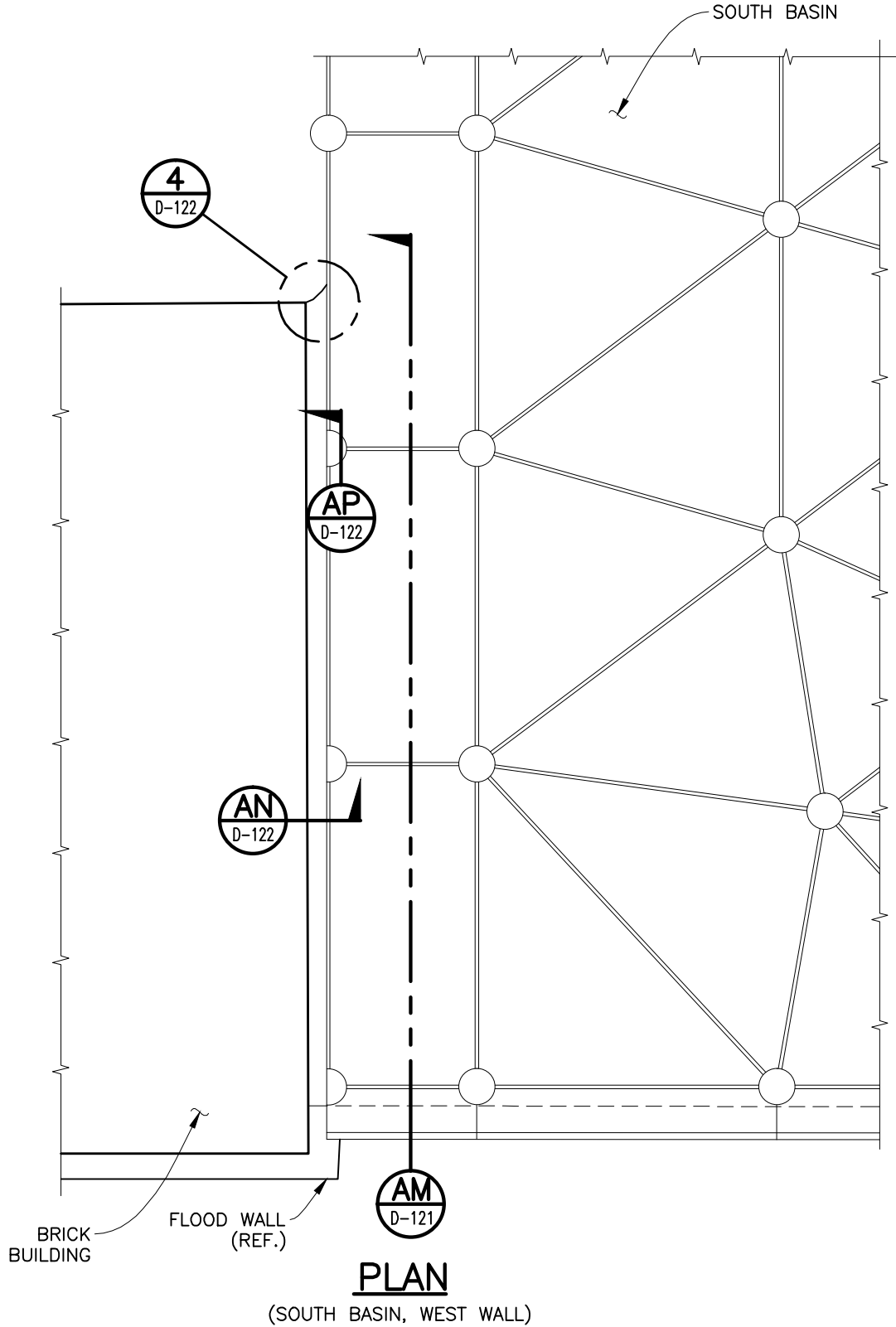
DWG. TITLE SOUTH BASIN ENDWALL DETAILS

PROJECT DESCRIPTION
FINISHED WATER BASIN COVER PROJECT
RICHMOND, VA

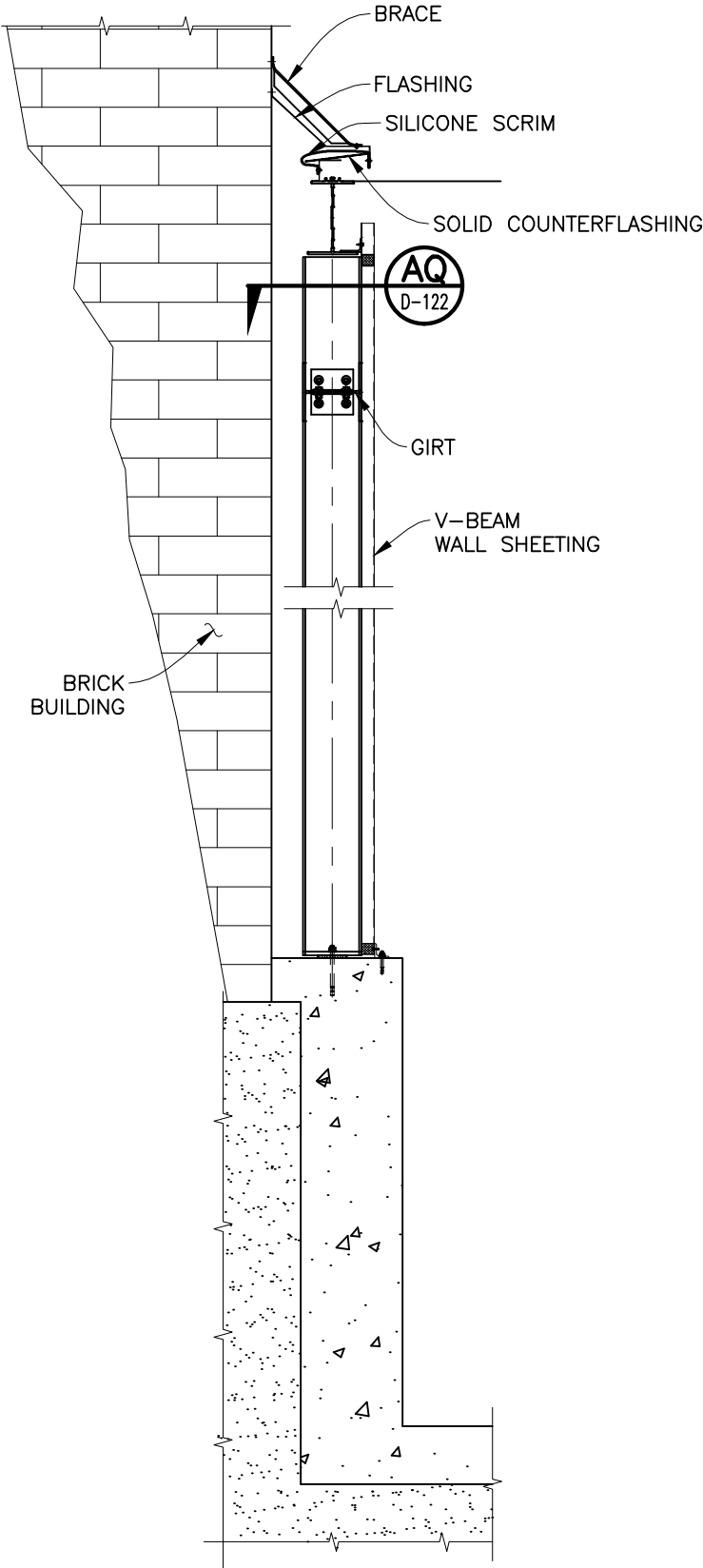
JOB NO. 310002/686401
DRAWING NO. D-120
REVISION 0
CUST. CONTR. NO.

0 12/03/10 GF DAB 100% PRELIMINARY
REV. DATE: DRWN BY CHKD BY DESCRIPTION

CUSTOMER CITY OF RICHMOND

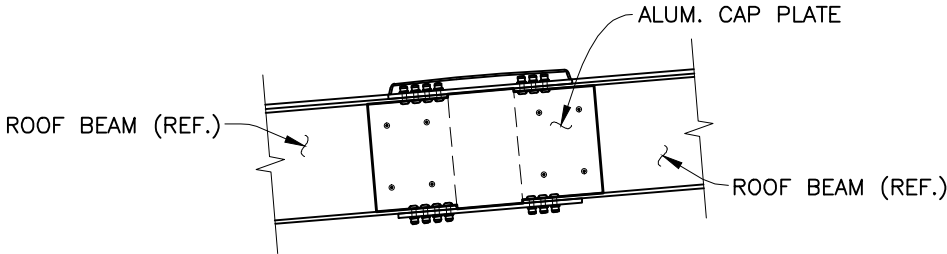


DWG. TITLE SOUTH BASIN @ WEST WALL DETAILS	TEMCOR 879 WEST 190th STREET GARDENA, CALIF. 90248 <small>ALL DESIGNS, IDEAS, PROCESSES OR DEVELOPMENTS ORIGINATED OR DISCLOSED BY TEMCOR ARE PROPRIETARY, PATENTED OR THE SUBJECT MATTER FOR PATENT APPLICATION, AND MAY NOT BE REPRODUCED WITHOUT WRITTEN PERMISSION FROM TEMCOR</small>				CITY OF RICHMOND	
	PROJECT DESCRIPTION FINISHED WATER BASIN COVER PROJECT RICHMOND, VA				CUSTOMER	
	JOB NO. 310002/686401	DRAWING NO. D-121	REVISION 0	CUST. CONTR. NO.		
		0	12/03/10	ARG	DAB	100% PRELIMINARY
		REV.	DATE:	DRWN BY	CHKD BY	DESCRIPTION

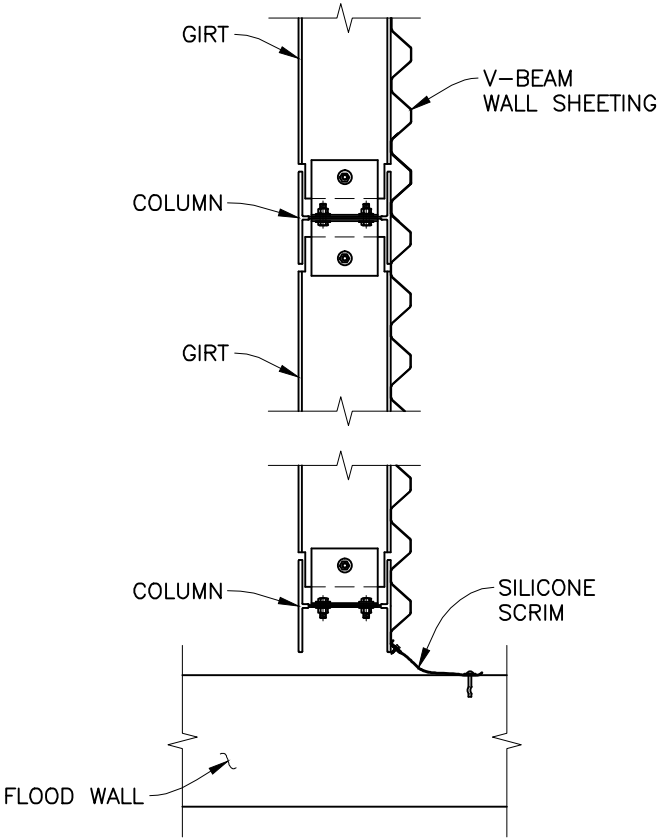


SECTION **AN**
 N.T.S. **D-121**

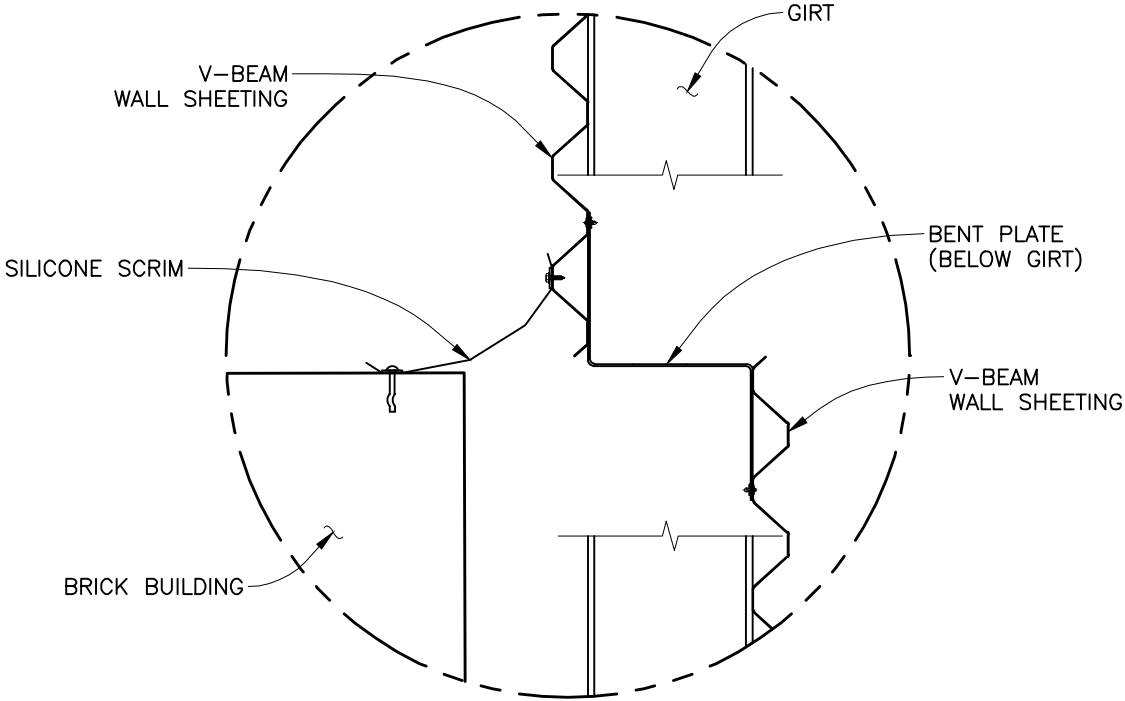
(SOUTH BASIN, WEST WALL @ BRICK BUILDING)



SECTION **AP**
 N.T.S. **D-121**



SECTION **AQ**
 N.T.S. **D-122**

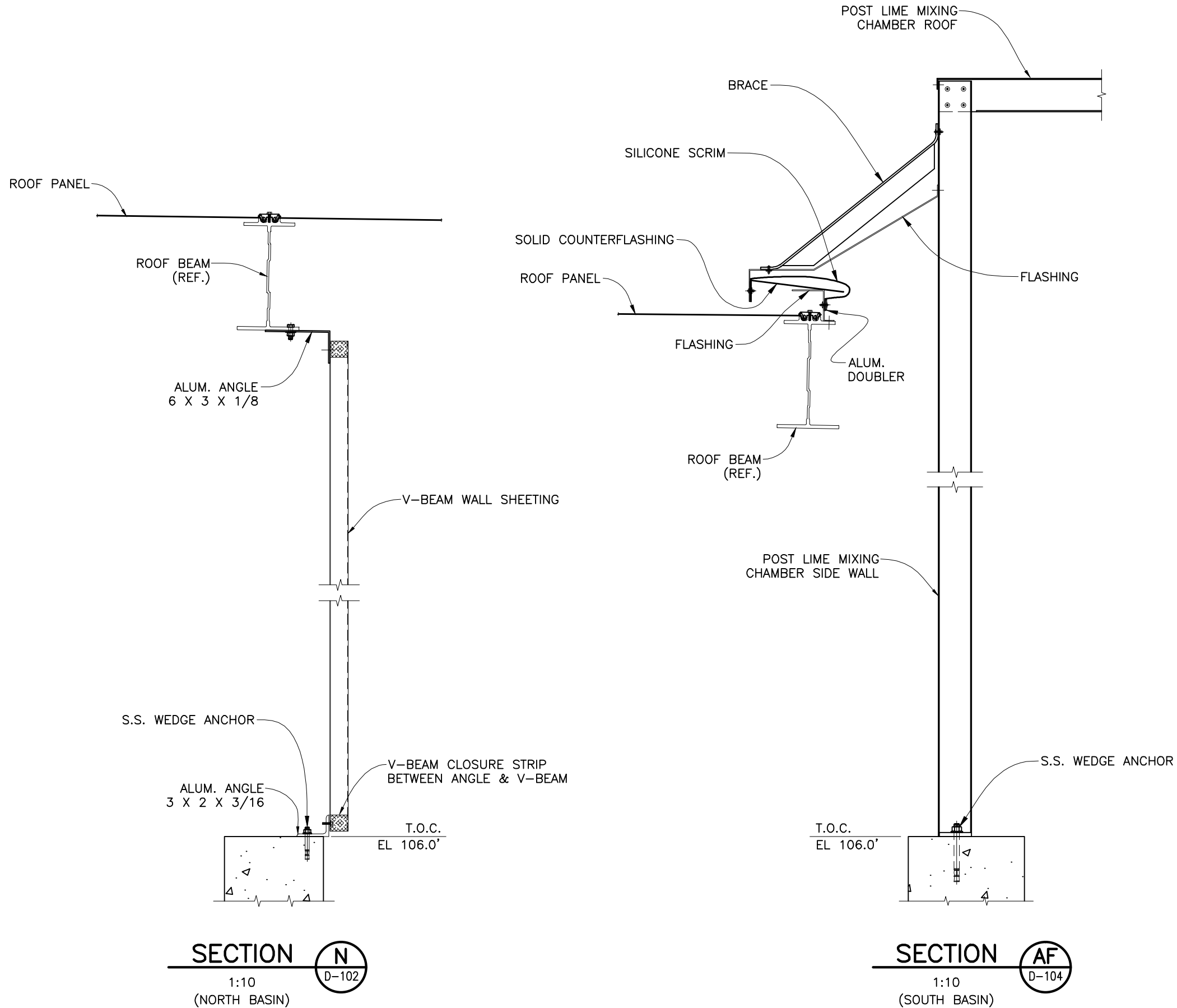


DETAIL **4**
 N.T.S. **D-121**

DWG. TITLE	SOUTH BASIN @ WEST WALL DETAILS			
	PROJECT DESCRIPTION			
JOB NO.	FINISHED WATER BASIN COVER PROJECT			
	RICHMOND, VA			
310002/686401	DRAWING NO.	REVISION	CUST. CONTR. NO.	
	D-122	0		

TEMCOR 879 WEST 190th STREET GARDENA, CALIF. 90248	
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0	12/03/10	ARG	DAB	100% PRELIMINARY
REV.	DATE:	DRWN BY	CHKD BY	DESCRIPTION
CITY OF RICHMOND				



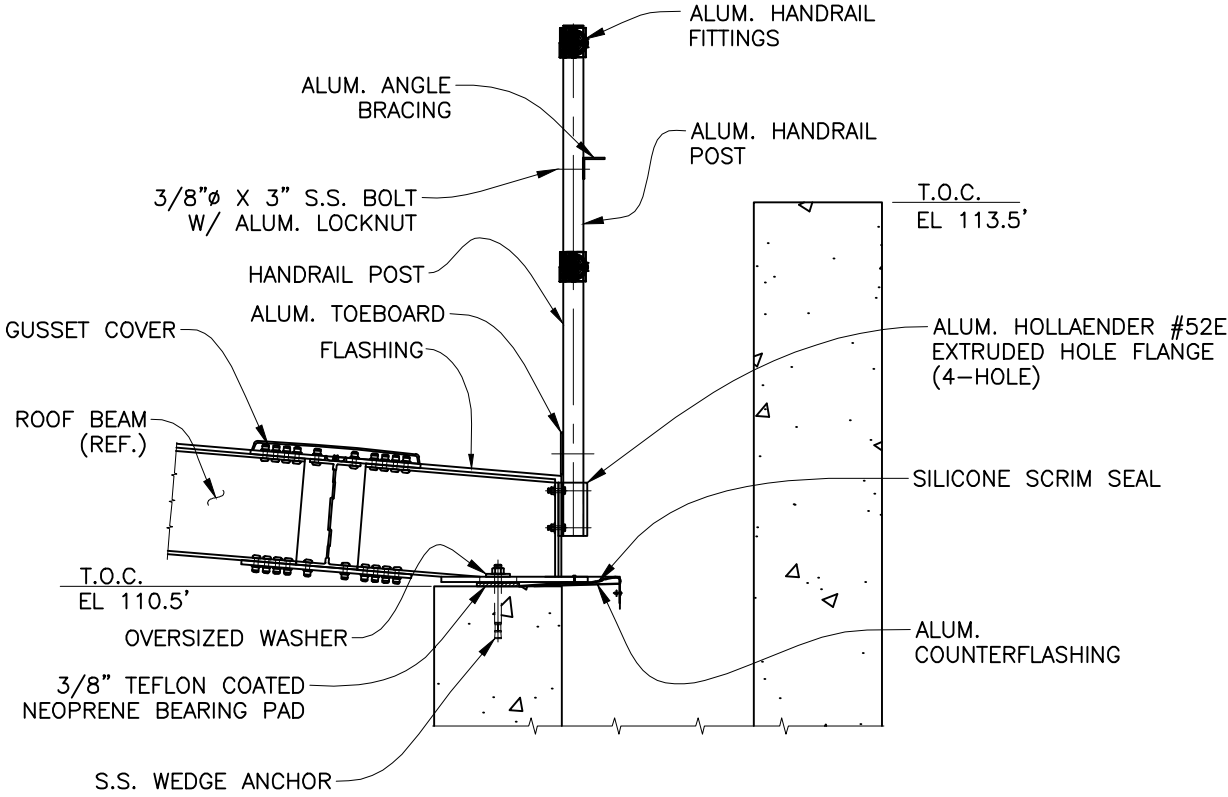
100% SUBMITTAL



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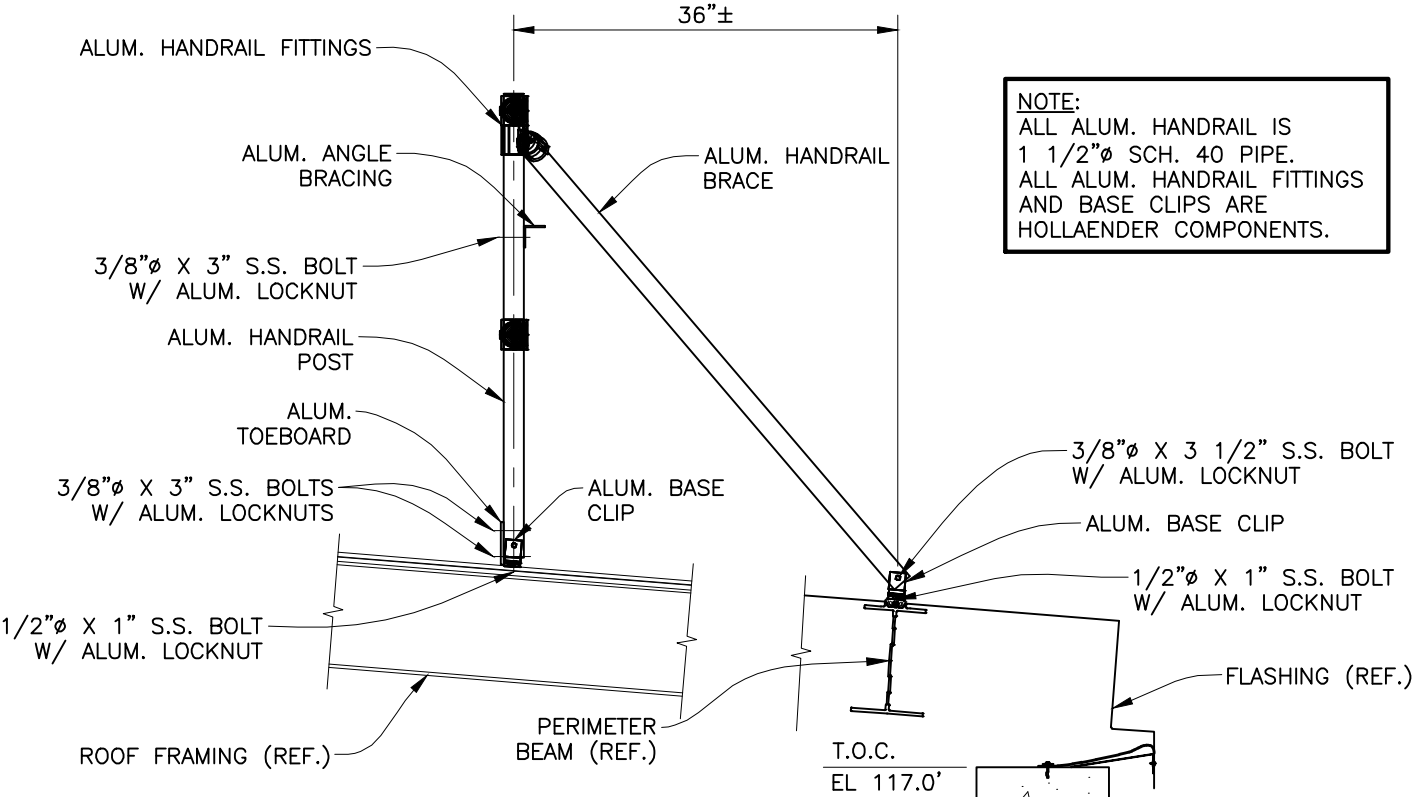
DWG. TITLE		LIME MIXING CHAMBER SECTIONS	
PROJECT DESCRIPTION		FINISHED WATER BASIN COVER PROJECT RICHMOND, VA	
JOB NO.	DRAWING NO.	REVISION	CUST. CONTR. NO.
310002/686401	D-123	0	

0	12/03/10	GF	DAB	100% PRELIMINARY
REV.	DATE:	DRWN BY	CHKD BY	DESCRIPTION
CUSTOMER				CITY OF RICHMOND



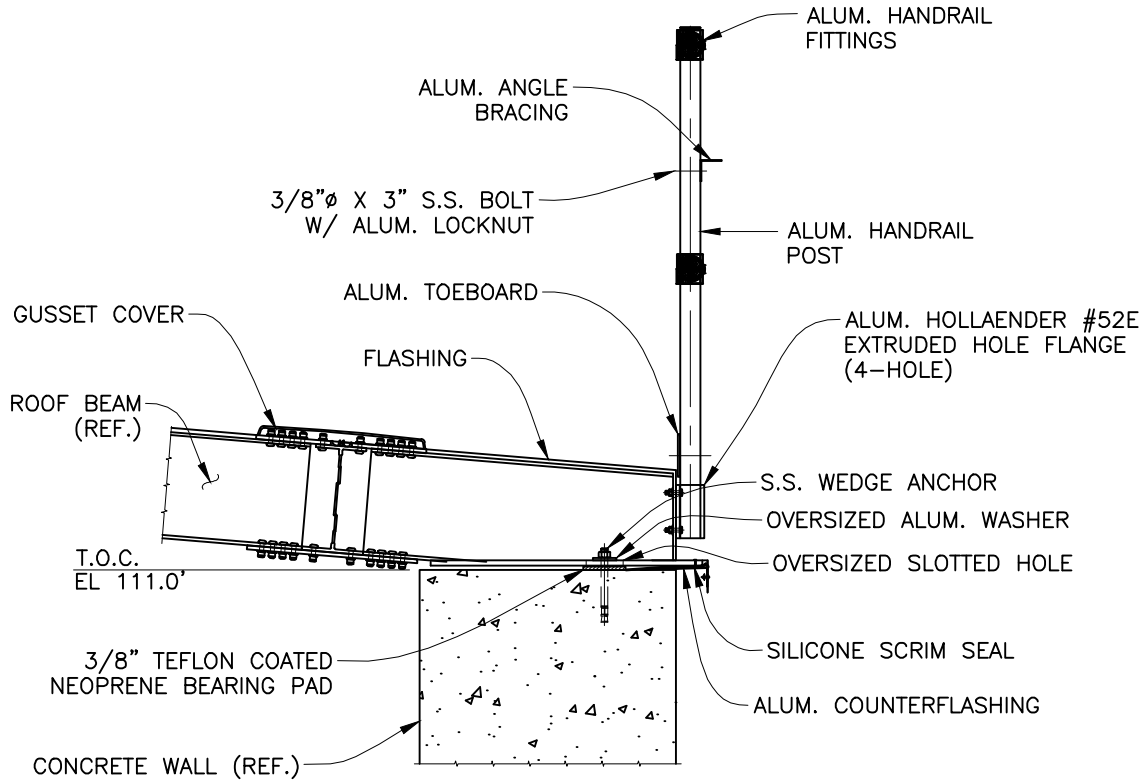
SOUTH BASIN GUTTER WALL

N.T.S.



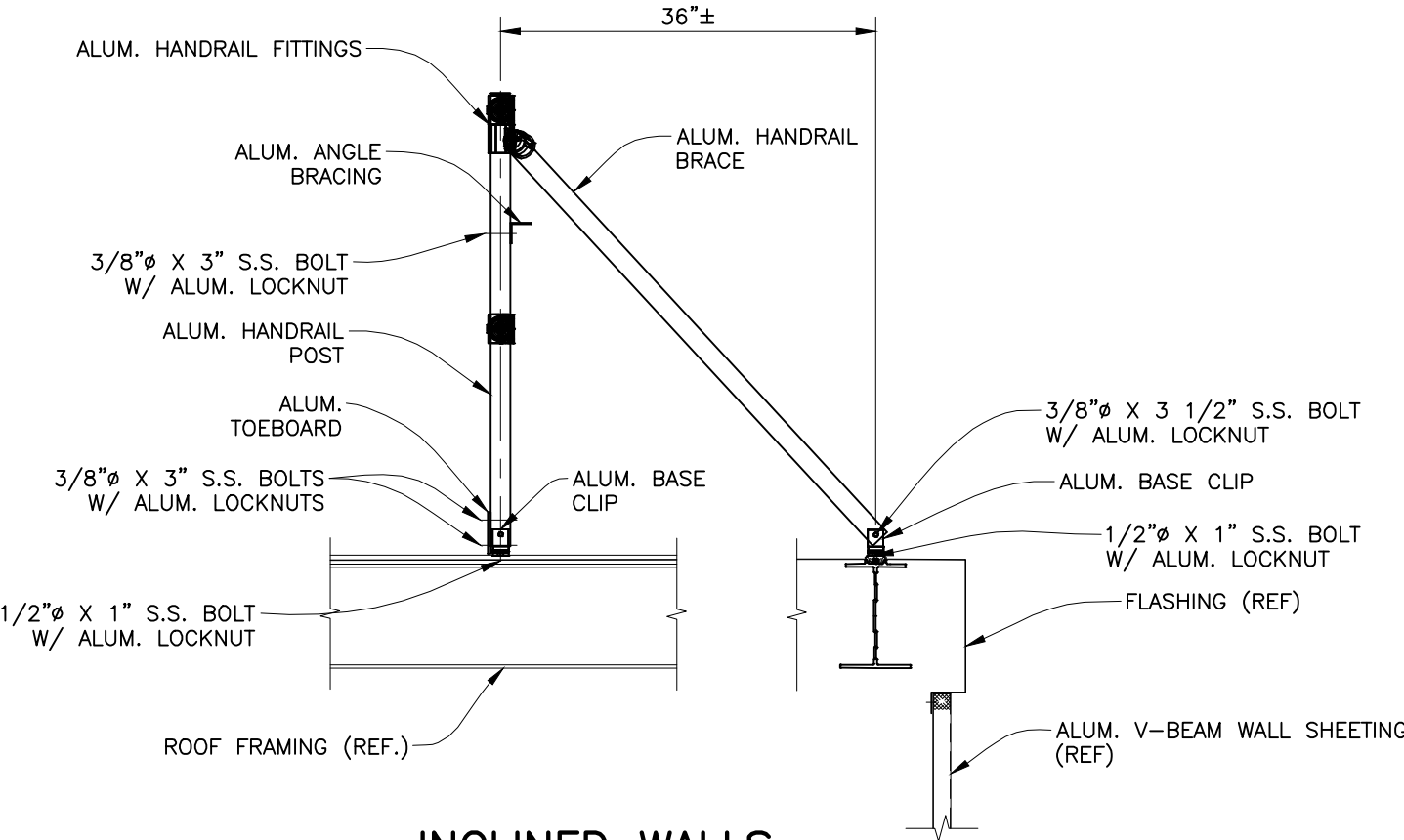
SOUTH BASIN FLOOD WALL

N.T.S.



NORTH BASIN GUTTER WALL

N.T.S.



INCLINED WALLS

N.T.S.

NOTE:
ALL ALUM. HANDRAIL IS 1 1/2"Ø SCH. 40 PIPE.
ALL ALUM. HANDRAIL FITTINGS AND BASE CLIPS ARE HOLLANDER COMPONENTS.

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HANDRAIL DETAILS

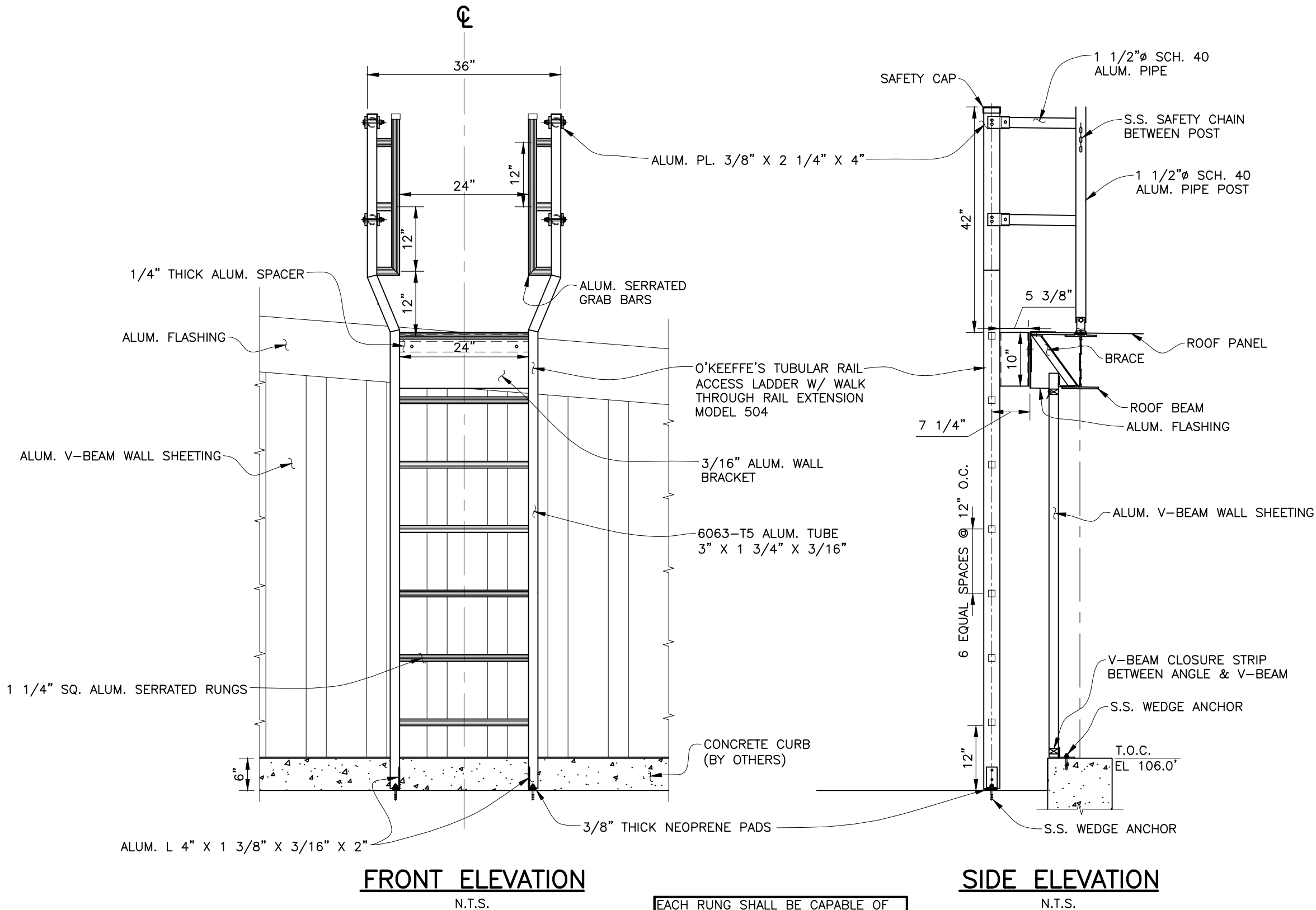
PROJECT DESCRIPTION
FINISHED WATER BASIN COVER PROJECT
RICHMOND, VA

JOB NO.	DRAWING NO.	REVISION	CUST. CONTR. NO.
310002/686401	D-124	0	

REV.	DATE	DRWN BY	CHKD BY	DAB	100% PRELIMINARY	DESCRIPTION
0	12/03/10					

CUSTOMER

CITY OF RICHMOND



DWG. TITLE

LADDER DETAILS

PROJECT DESCRIPTION

FINISHED WATER BASIN COVER PROJECT
RICHMOND, VA

JOB NO.

310002/686401

DRAWING NO.

D-125

REVISION

0

CUST. CONTR. NO.

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0

12/03/10

RWR

DAB

100% PRELIMINARY

REV.

DATE:

DRWN BY

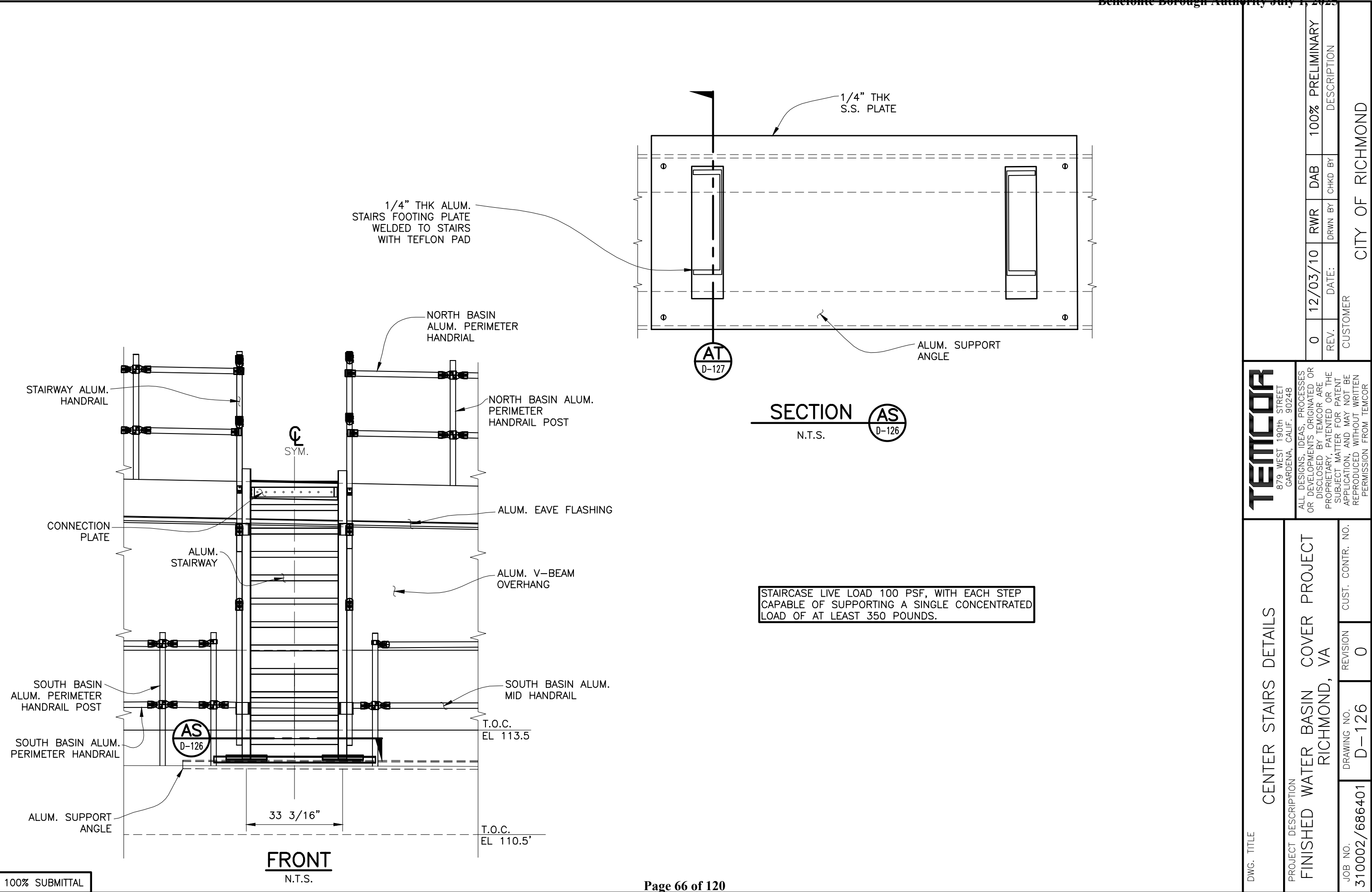
CHKD BY

DESCRIPTION

CUSTOMER

CITY OF RICHMOND

City July 1, 2025



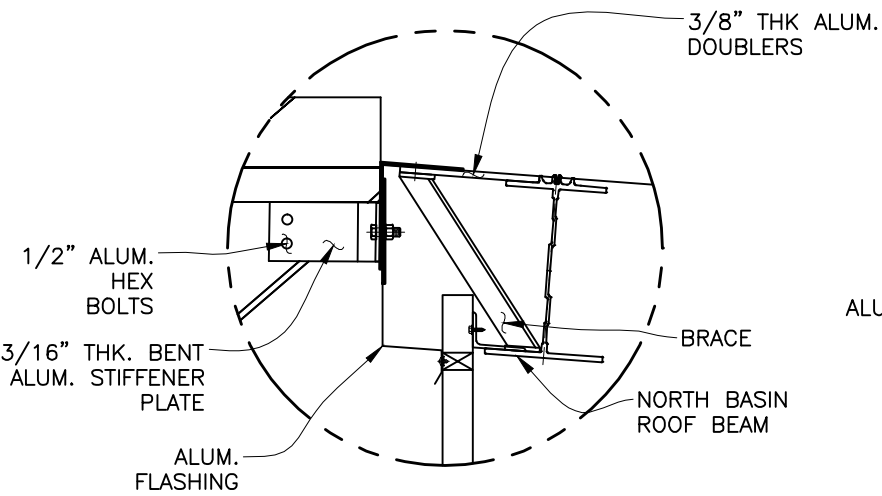
TEMCOR

879 WEST 190TH STREET
GARDENA, CALIF. 90248

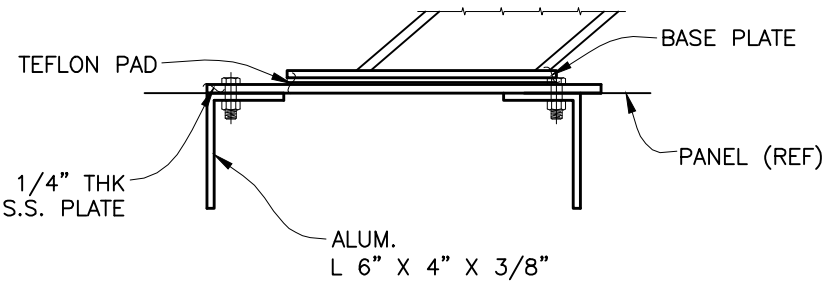
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DWG. TITLE	CENTER STAIRS DETAILS			
	PROJECT DESCRIPTION			
JOB NO.	FINISHED WATER BASIN COVER PROJECT			
	RICHMOND, VA			
310002/686401	DRAWING NO.	REVISION	CUST. CONTR. NO.	
	D-126	0		

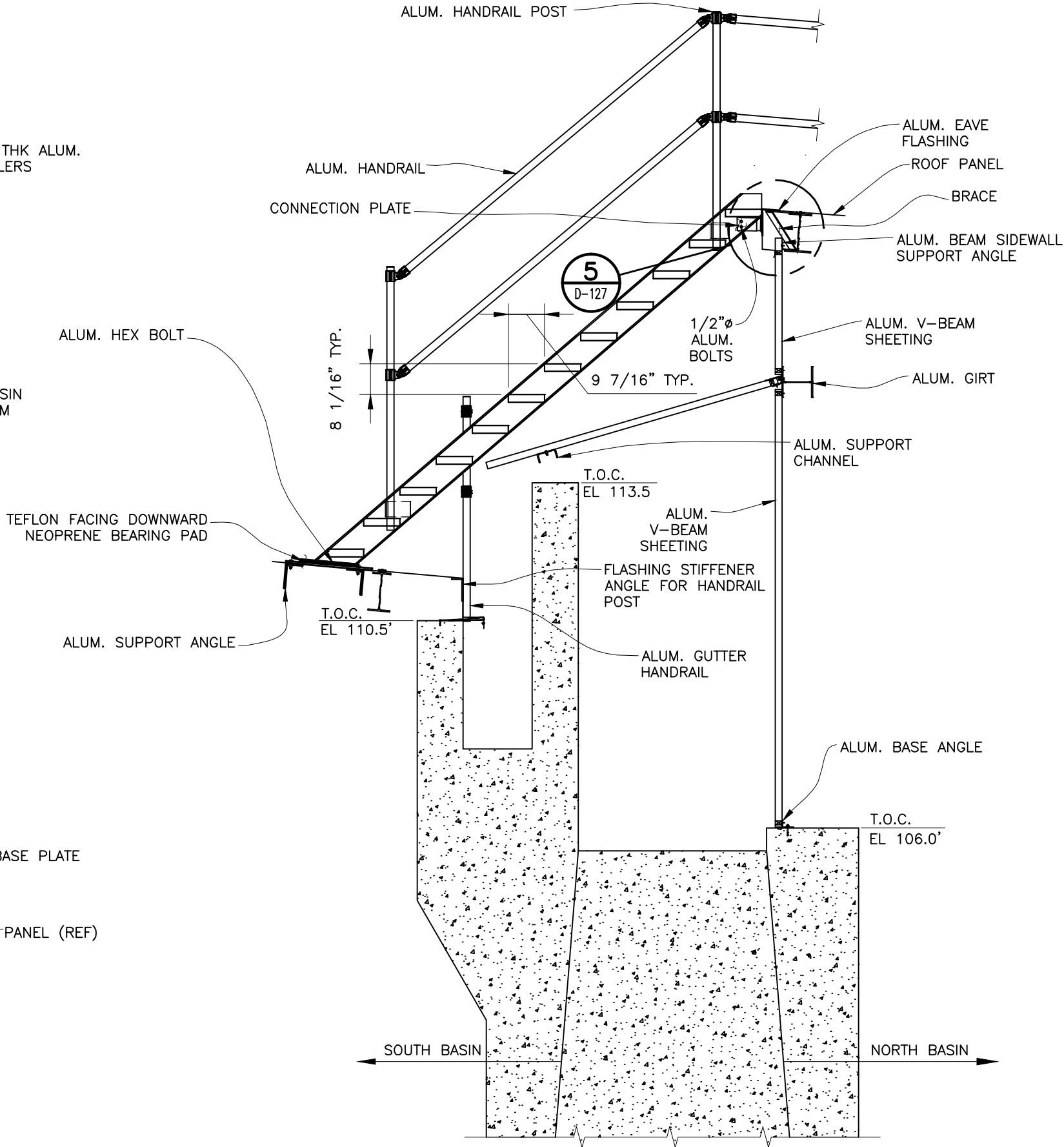
0	12/03/10	RWR	DAB	100% PRELIMINARY
REV.	DATE:	DRWN BY	CHKD BY	DESCRIPTION
CITY OF RICHMOND				CUSTOMER



DETAIL 5
N.T.S. D-127



SECTION AT
N.T.S. D-126



ELEVATION
N.T.S.

DWG. TITLE

CENTER STAIRS DETAILS CONT.

PROJECT DESCRIPTION

FINISHED WATER BASIN COVER PROJECT
RICHMOND, VA

JOB NO.

310002/686401

DRAWING NO.

D-127

REVISION

0

CUST. CONTR. NO.

TEMCOR
879 WEST 190th STREET
GARDENA, CALIF. 90248

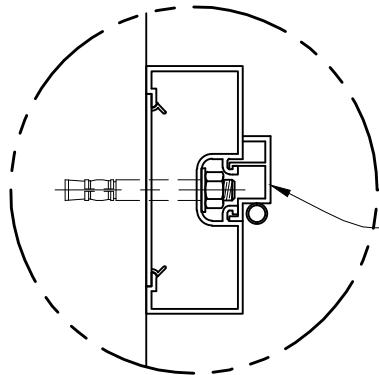
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REV. DATE: DRWN BY CHKD BY DESCRIPTION

CUSTOMER

CITY OF RICHMOND

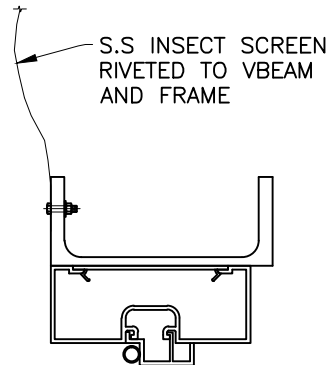


DETAIL

6

N.T.S.

D-128

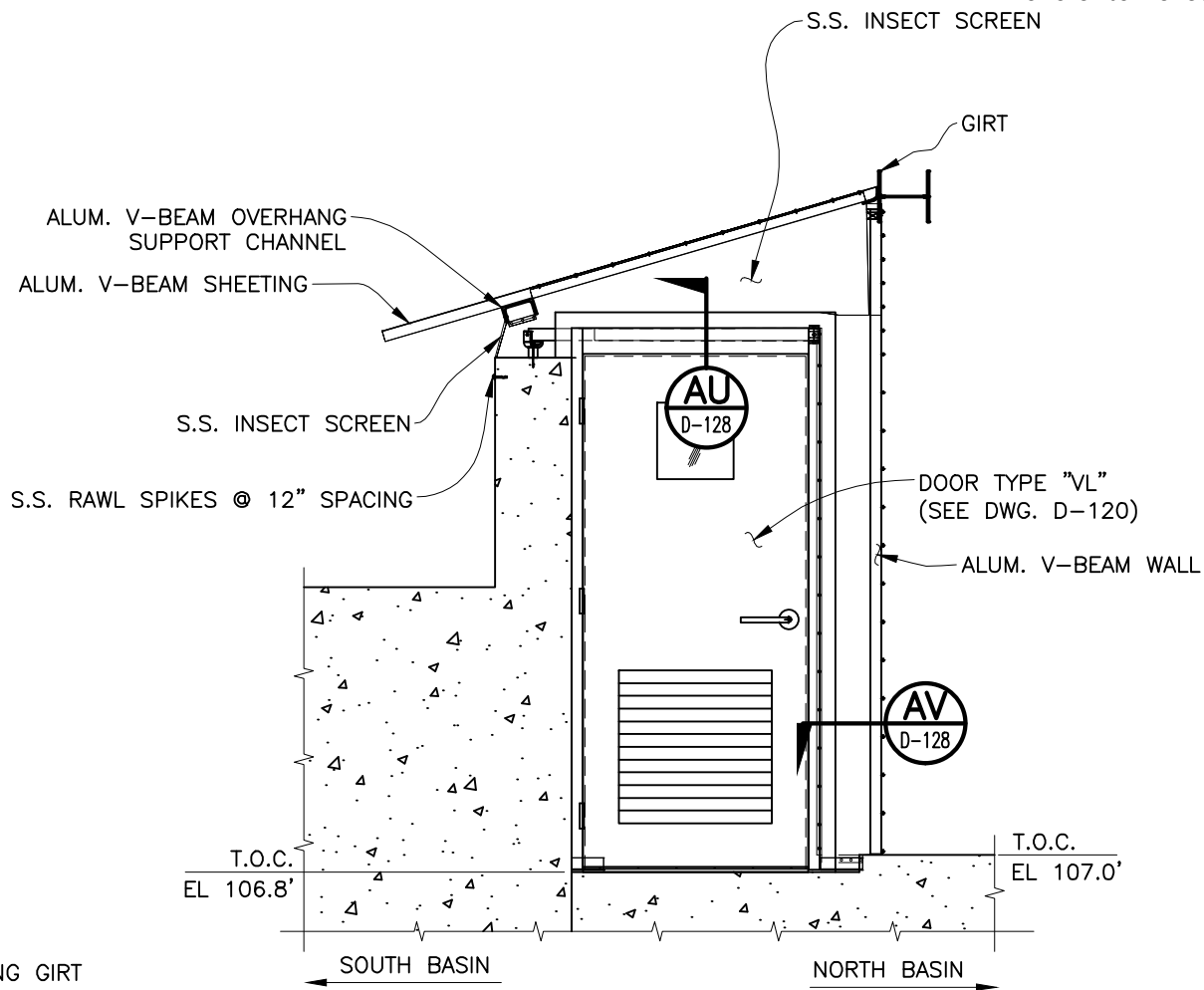


SECTION

AU

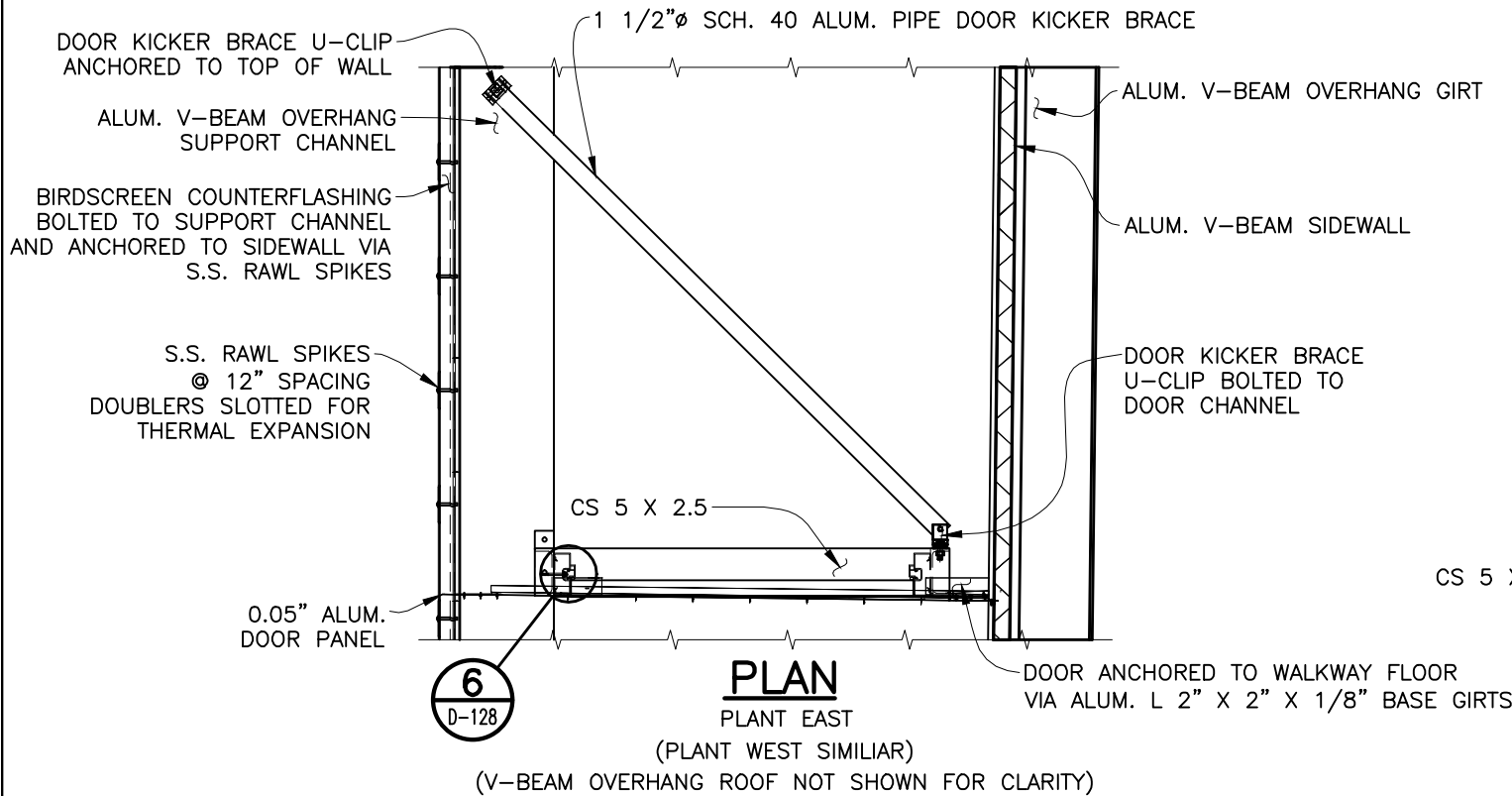
N.T.S.

D-128



ELEVATION

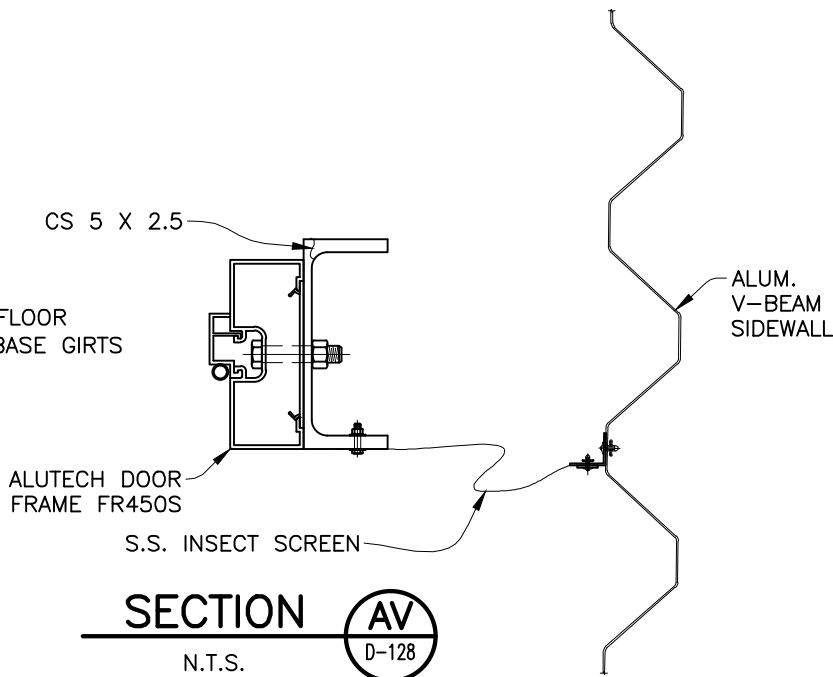
PLANT EAST
(PLANT WEST SIMILIAR)



PLAN

PLANT EAST
(PLANT WEST SIMILIAR)

(V-BEAM OVERHANG ROOF NOT SHOWN FOR CLARITY)



SECTION

AV

N.T.S.

D-128

100% SUBMITTAL

DWG. TITLE

SCREEN DOOR FLASHING DETAILS

PROJECT DESCRIPTION

FINISHED WATER BASIN COVER PROJECT
RICHMOND, VA

JOB NO.

310002/686401

DRAWING NO.

D-128

REVISION

0

CUST. CONTR. NO.

TEM COR

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GARDENA, CALIF. 90248

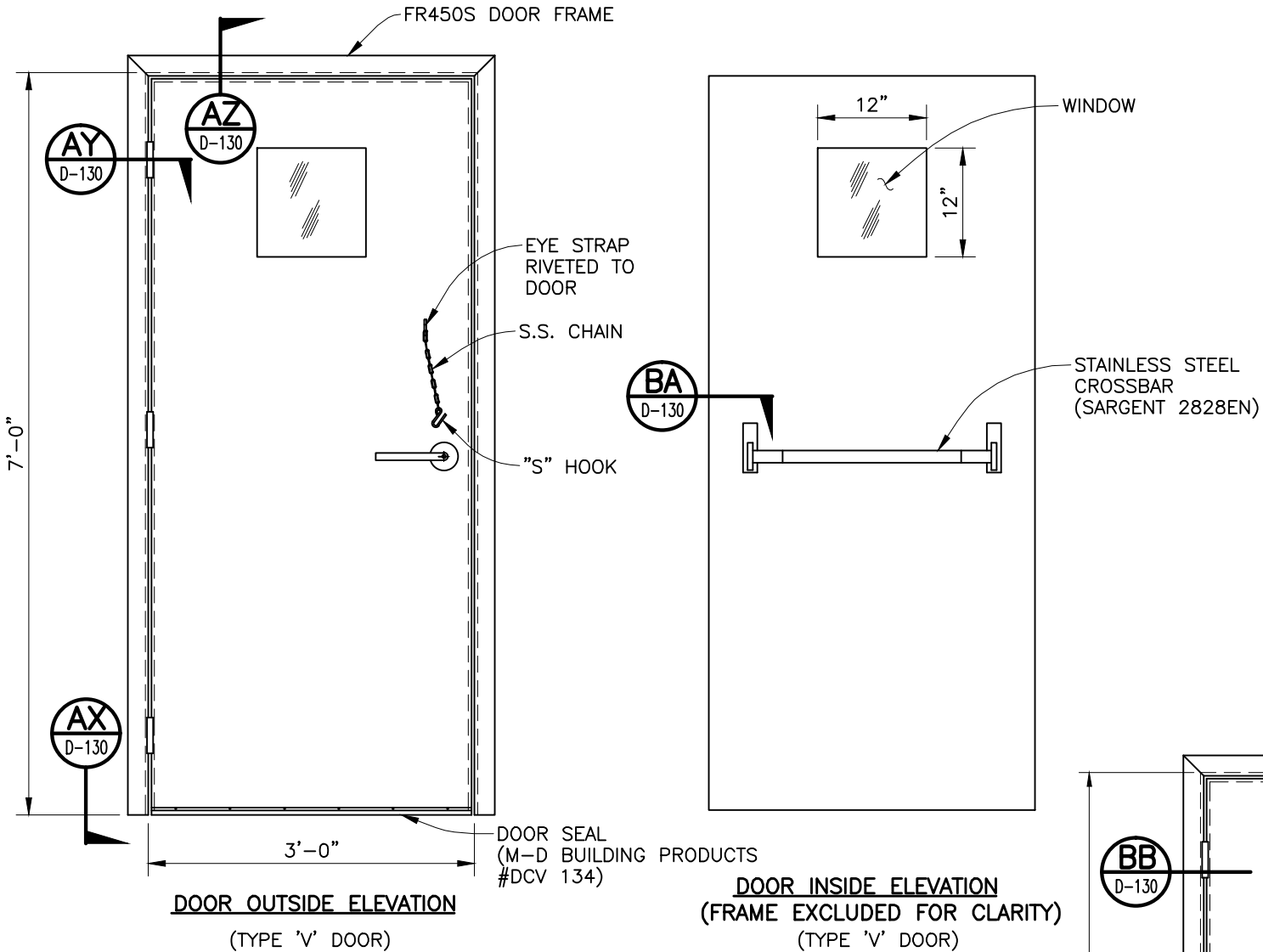
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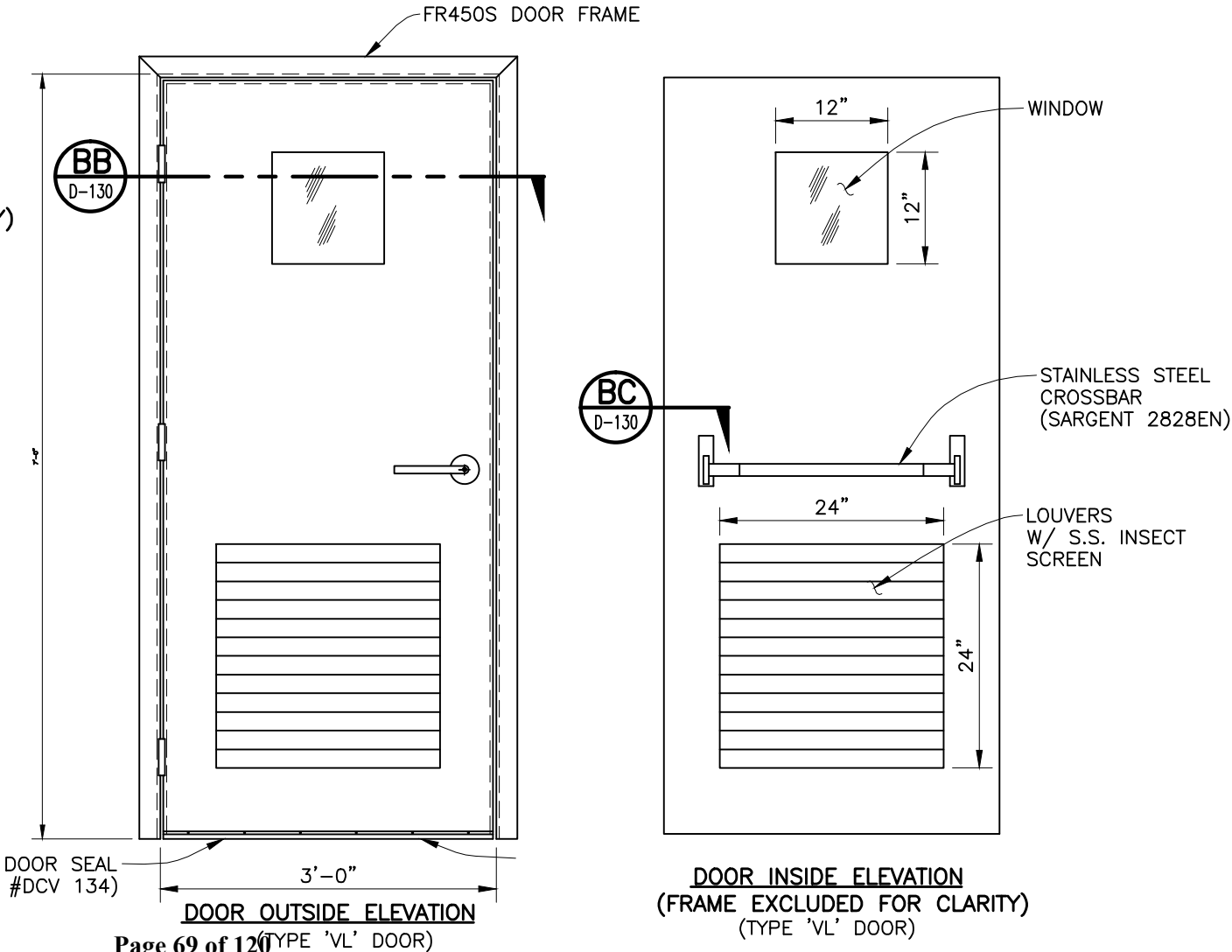
CITY OF RICHMOND

0 12/03/10 RWR DAB 100% PRELIMINARY

REV. DATE: DRWN BY CHKD BY DESCRIPTION



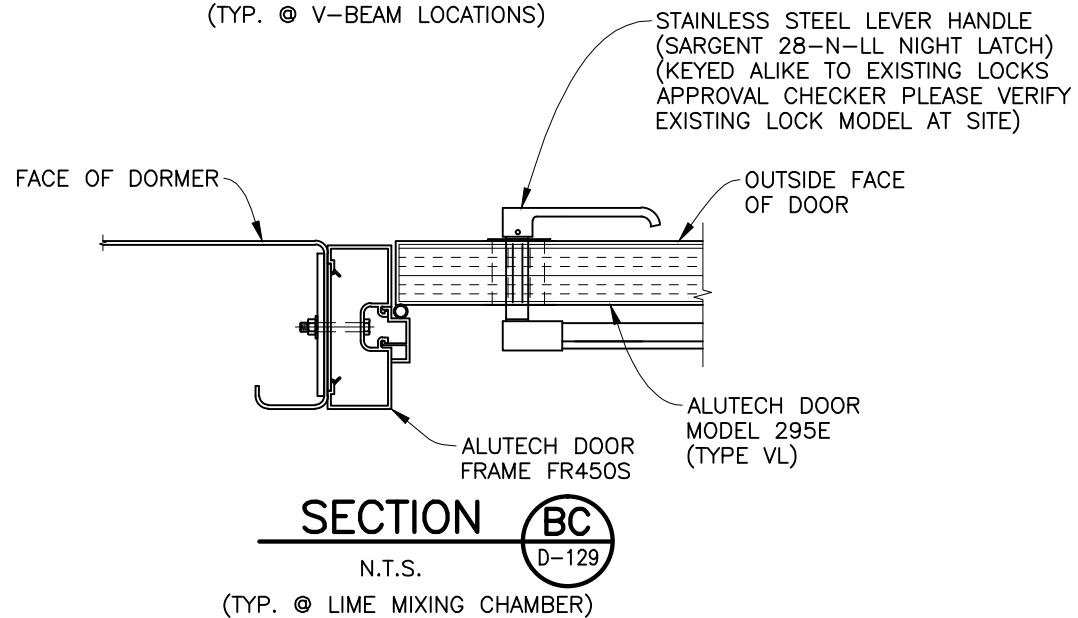
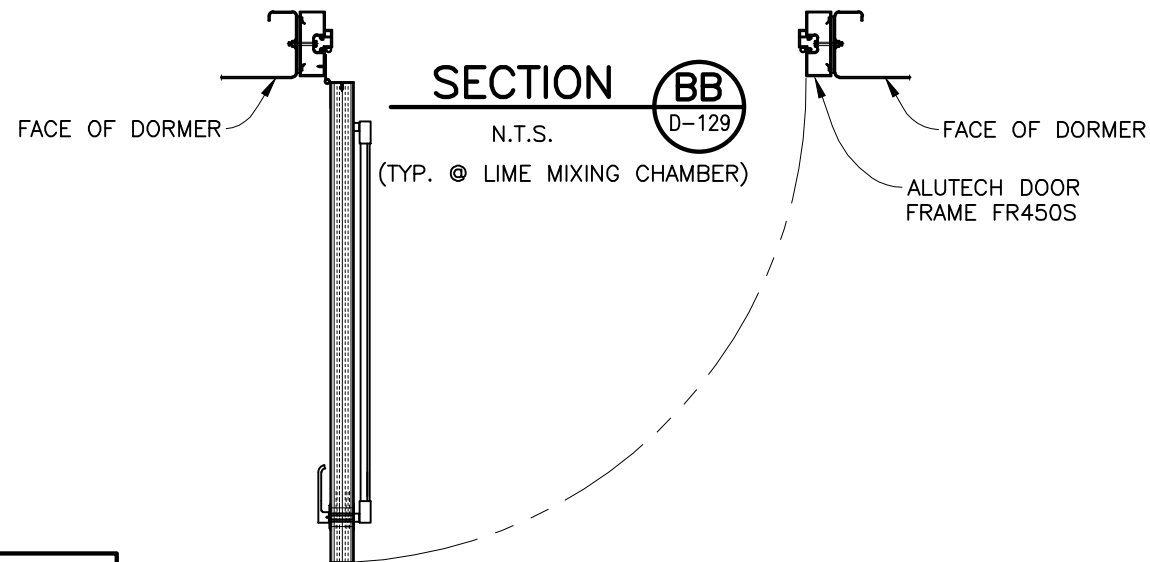
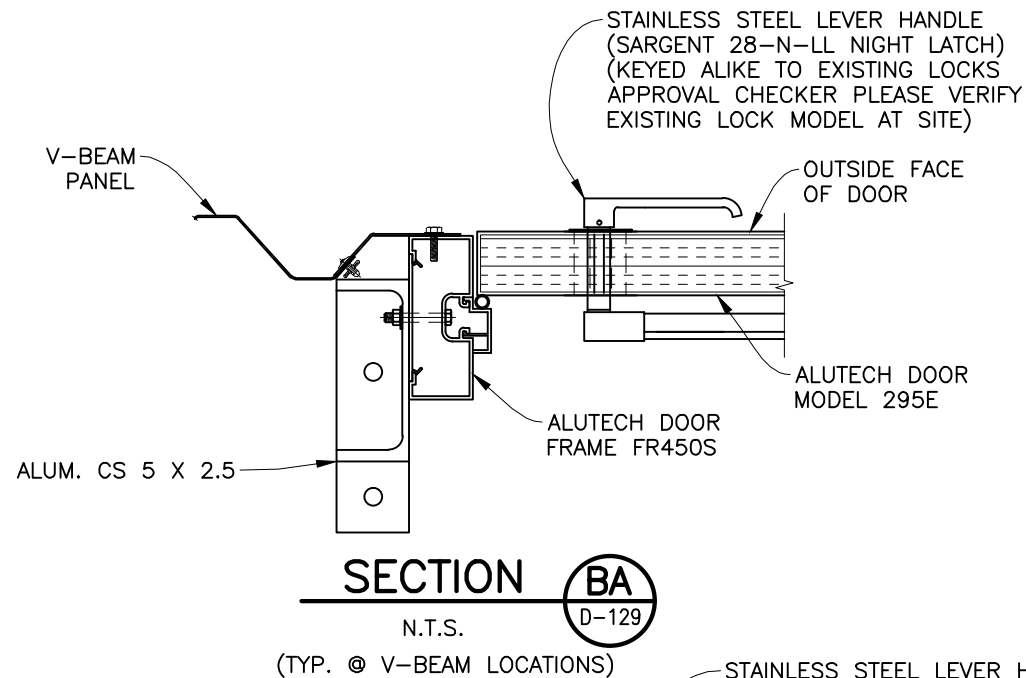
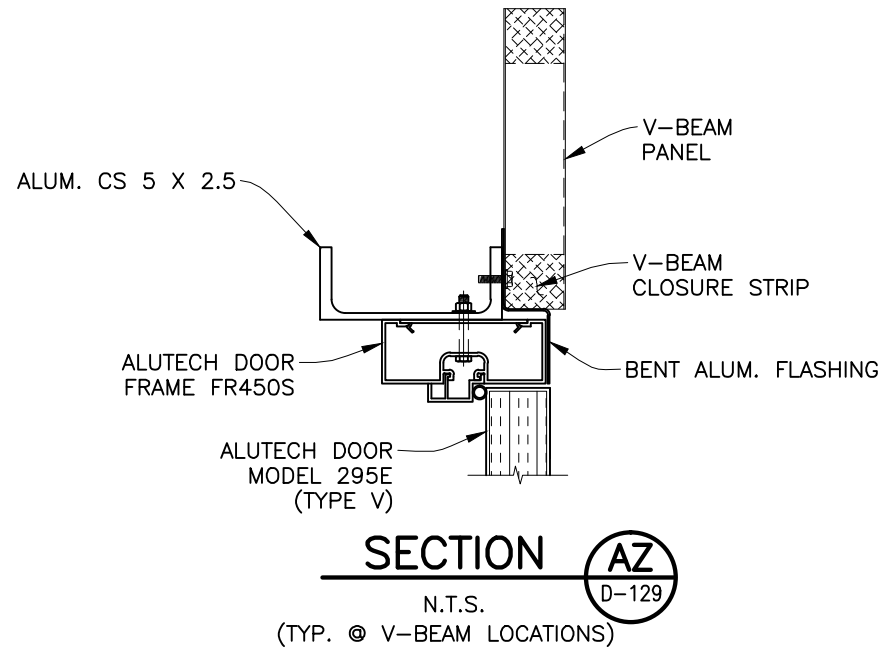
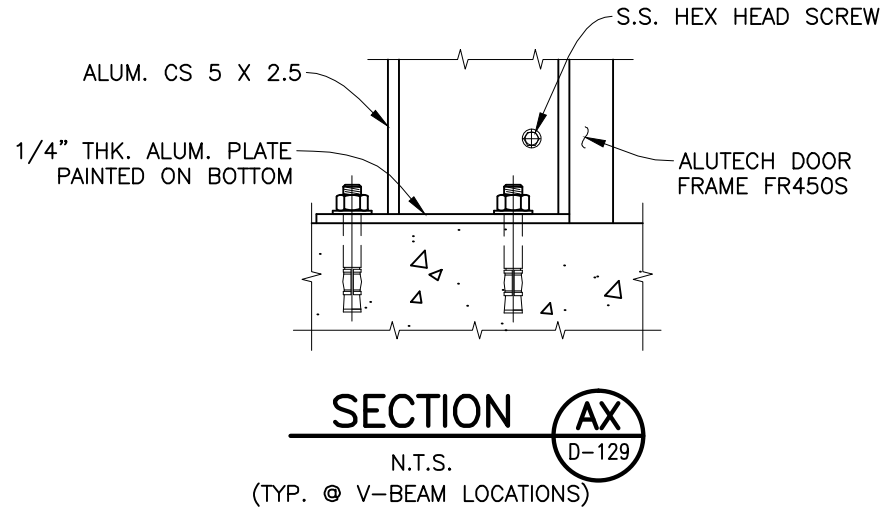
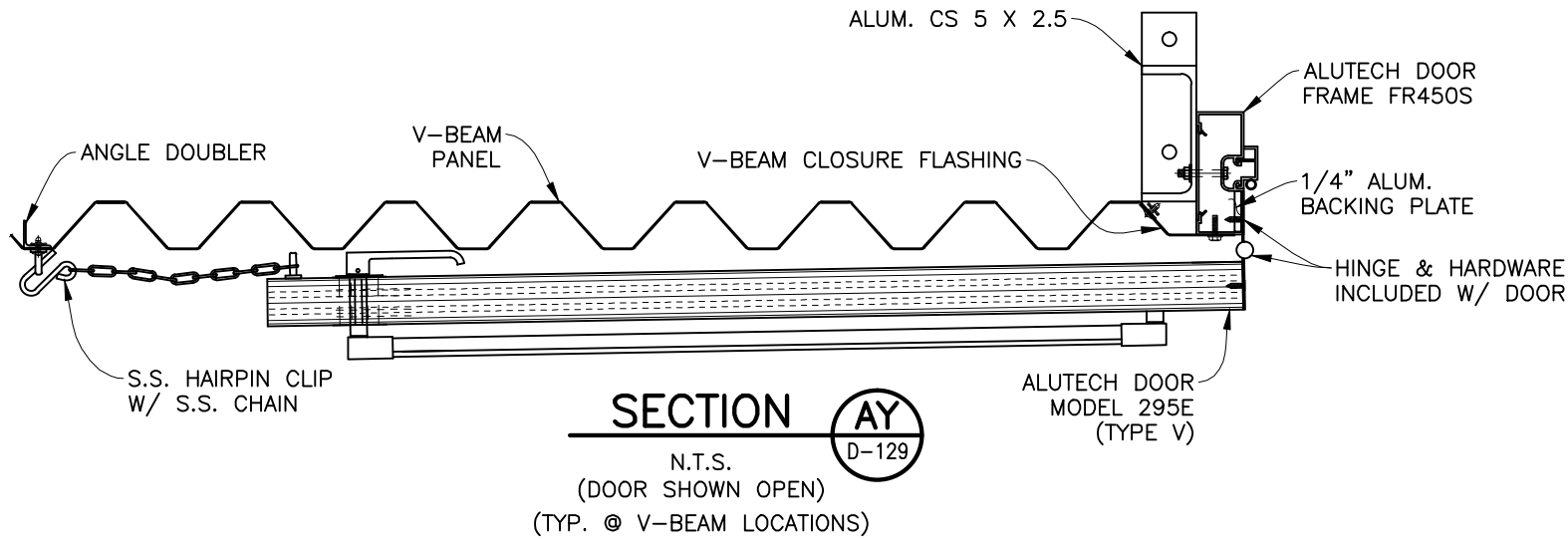
- SPECIFICATIONS:**
1. DOOR SHALL BE 1 3/4" THICK ALUTECH MODEL 295E WITH FR450S FRAME AND INSULATED CORE. INSULATION SHALL BE FIRE RETARDANT EPS RIGID FOAM BOARD WITH AN R-VALUE OF 9. CORE SHALL BE LAMINATED BETWEEN TWO 1/8" SHEETS OF FIBERGLASS. SUBFRAME, FACE SHEETS AND INSULATED CORE SHALL BE BONDED TOGETHER WITH THERMOSETTING ADHESIVE UNDER PRESSURE. FACE SHEET SHALL BE ONE PIECE 0.09" ALUMINUM OF ANODIZING QUALITY WITH A MINIMUM Ft=22 ksi. DOOR CONFIGURATION SHALL BE ALUTECH TYPE "V", WITH SQUARE WINDOW AT CENTER OF TOP HALF OF DOOR OR ALUTECH TYPE "VL", WITH SQUARE WINDOW AT CENTER OF TOP HALF OF DOOR AND SQUARE LOUVER AT CENTER OF BOTTOM HALF OF DOOR.
 2. DOOR AND FRAME ARE CLEAR ANODIZED.
 3. LOCKSET SHALL BE SARGENT MODEL 70-28-N-LL LOCKABLE STAINLESS STEEL DOOR LEVER, KEYED TO MATCH EXISTING.
 4. DOOR TO BE EQUIPPED WITH (3) 4 1/2" X 4 1/2" S.S. HINGES.
 5. CROSSBAR EXIT DEVICE STAINLESS STEEL STANDARD DUTY SIDE LATCH SARGENT MODEL 2828EN.



DWG. TITLE	TYPICAL STANDARD DOOR DETAILS			
	PROJECT DESCRIPTION FINISHED WATER BASIN COVER PROJECT RICHMOND, VA			
JOB NO. 310002/686401	DRAWING NO. D-129	REVISION 0	CUST. CONTR. NO.	

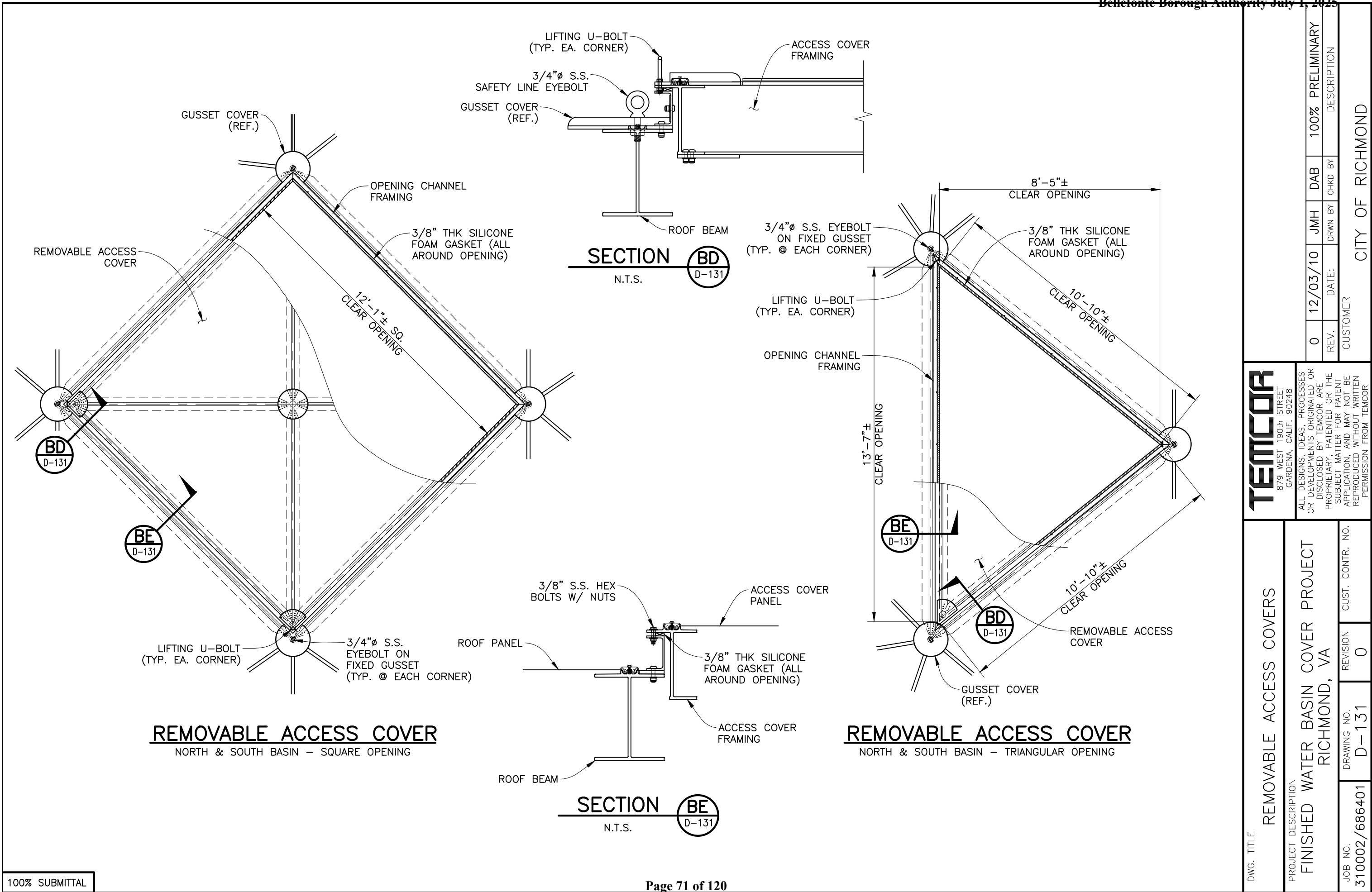
TEMCOR 879 WEST 190TH STREET GARDENA, CALIF. 90248	ALL DESIGNS, IDEAS, PROCESSES OR DEVELOPMENTS ORIGINATED OR DISCLOSED BY TEMCOR ARE PROPRIETARY, PATENTED OR THE SUBJECT MATTER FOR PATENT APPLICATION, AND MAY NOT BE REPRODUCED WITHOUT WRITTEN PERMISSION FROM TEMCOR	

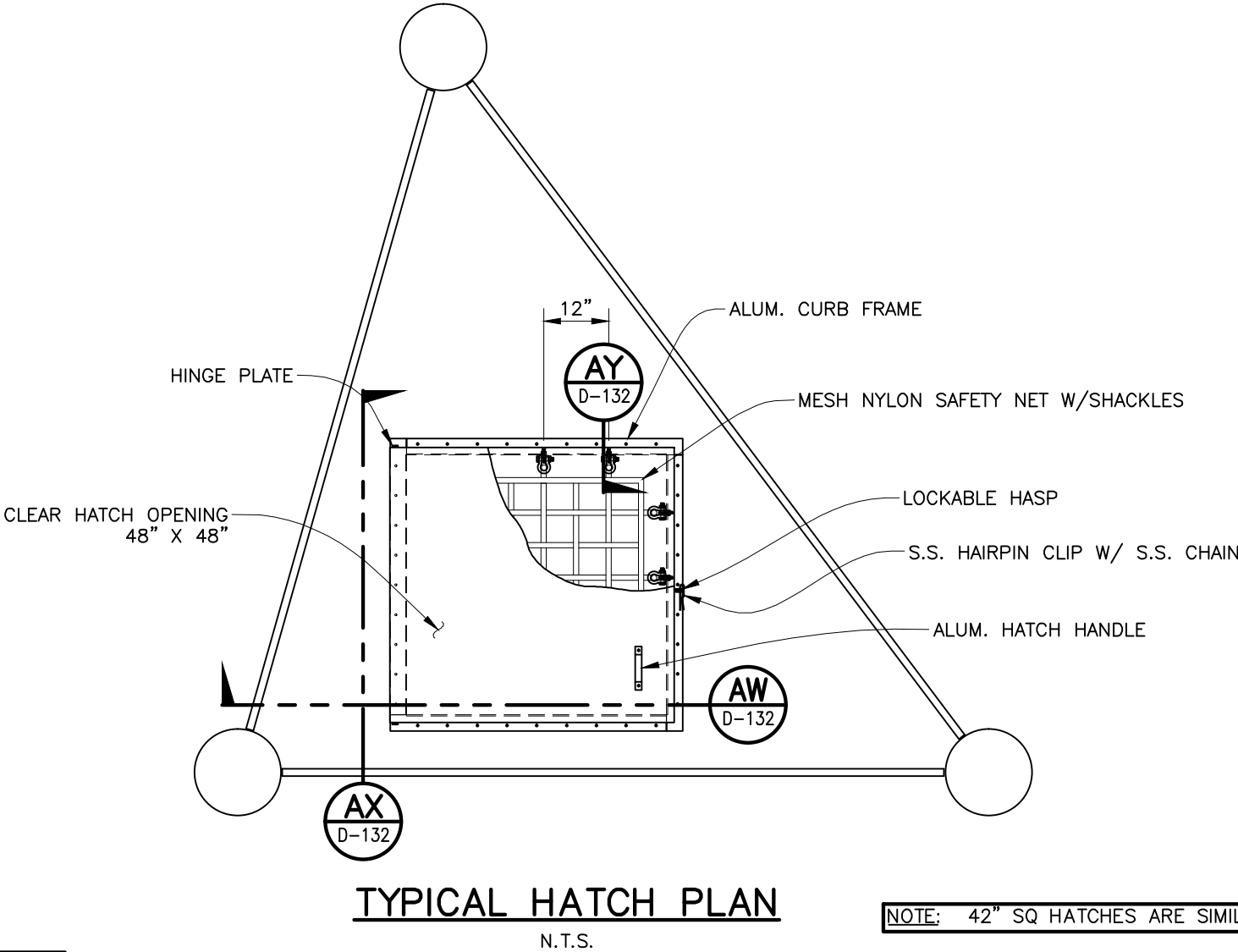
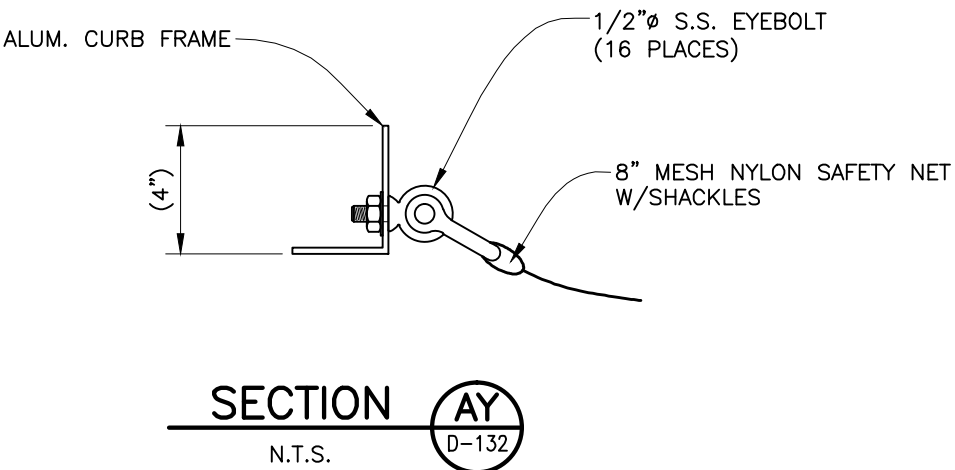
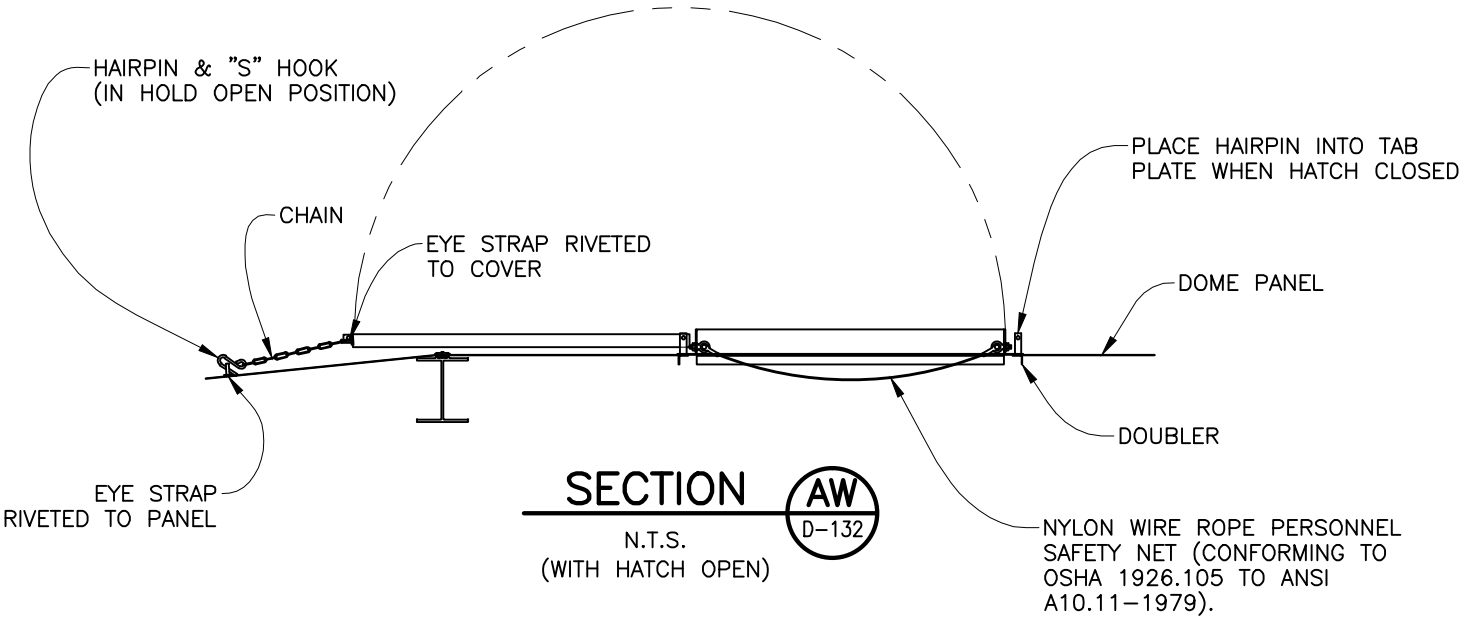
0	12/03/10	ARG	DAB	100% PRELIMINARY
REV.	DATE:	DRWN BY	CHKD BY	DESCRIPTION
CUSTOMER				CITY OF RICHMOND



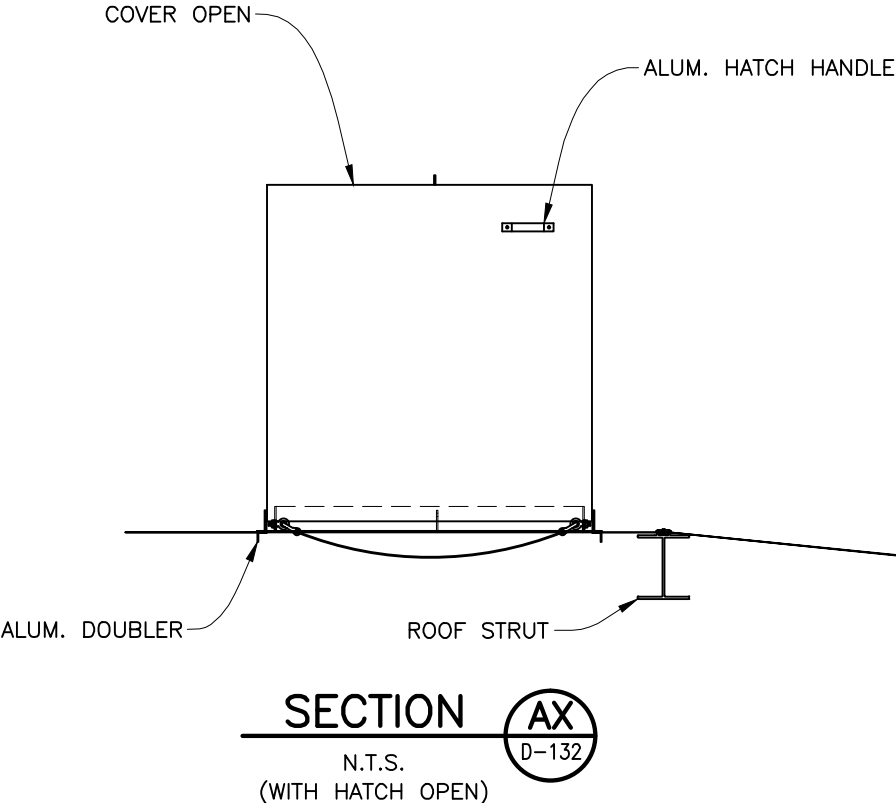
100% SUBMITTAL

DWG. TITLE	DOOR DETAILS				CITY OF RICHMOND			
	PROJECT DESCRIPTION				CUSTOMER			
	FINISHED WATER BASIN COVER PROJECT RICHMOND, VA				0			
JOB NO.	310002/686401	DRAWING NO.	D-130	REVISION	0	DATE:	12/03/10	100% PRELIMINARY
				CUST. CONTR. NO.				
				REV.	ARG	DAB	CHKD BY	DESCRIPTION





NOTE: 42" SQ HATCHES ARE SIMILAR.



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DWG. TITLE

48" SQ. ACCESS HATCH DETAILS

PROJECT DESCRIPTION
FINISHED WATER BASIN COVER PROJECT
RICHMOND, VA

JOB NO.
310002/686401

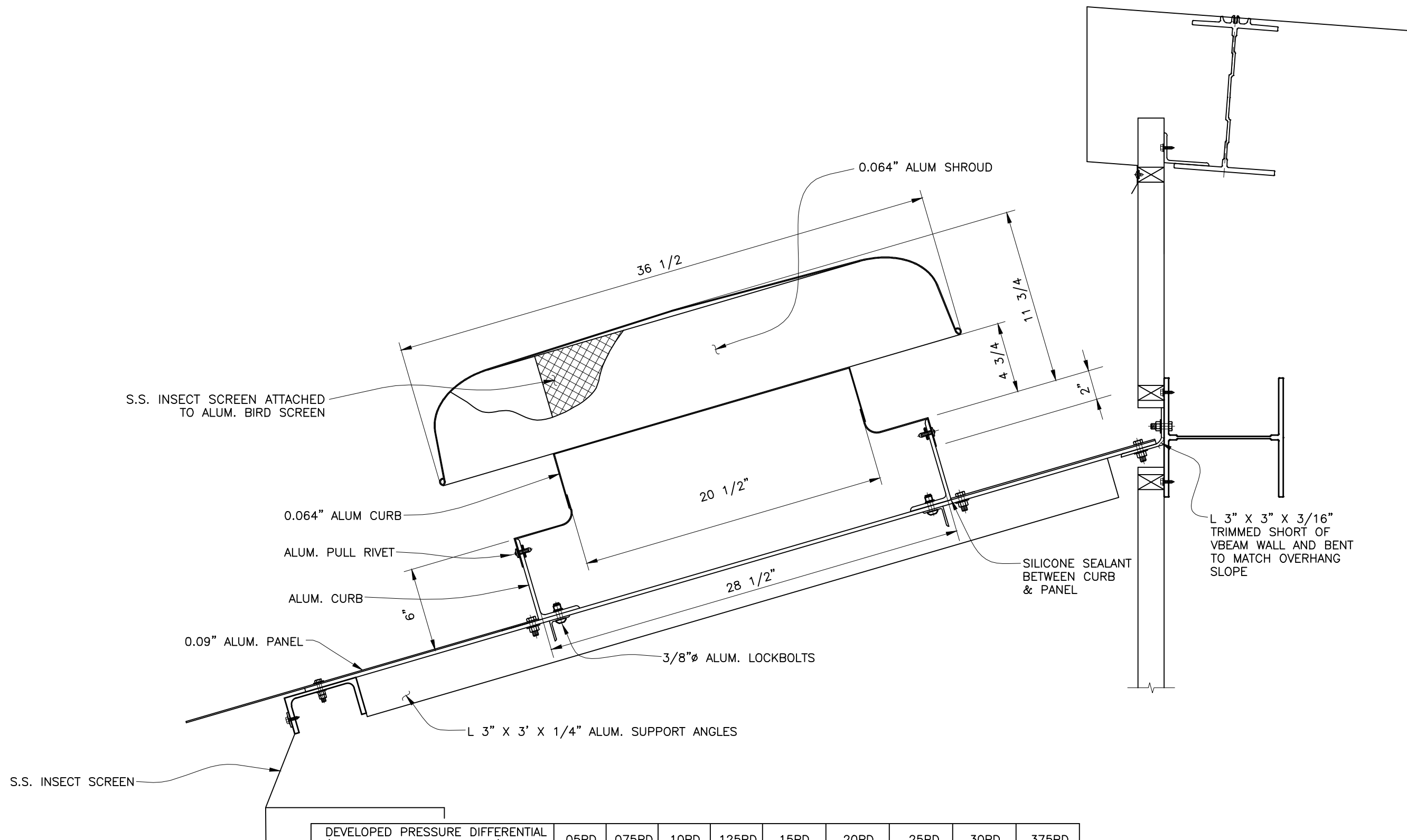
REVISION
0

CUST. CONTR. NO.

CUSTOMER

CITY OF RICHMOND

REV.	DATE:	DRWN BY	CHKD BY	DAB	GF	100% PRELIMINARY	DESCRIPTION
0	12/03/10						

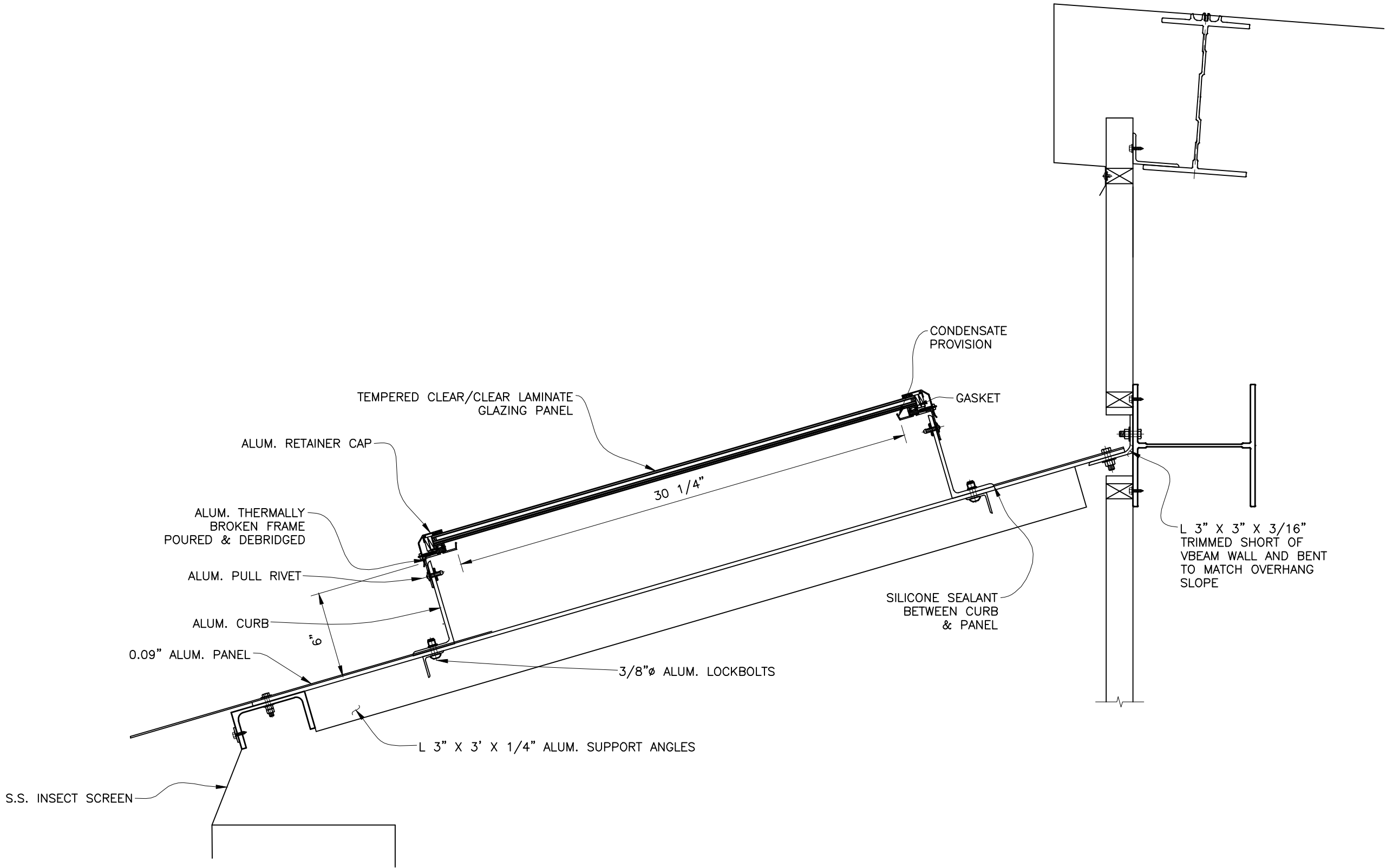


DEVELOPED PRESSURE DIFFERENTIAL (INCHES OF WATER COLUMN)	.05PD	.075PD	.10PD	.125PD	.15PD	.20PD	.25PD	.30PD	.375PD
RELIEF PERFORMANCE CAPACITIES (CFM)	1440	1764	2037	2277	2494	2880	3220	3527	3944
INTAKE PERFORMANCE CAPACITIES (CFM)	1228	1504	1736	1941	2127	2456	2745	3007	3362

RSVP-20 VENTILATOR

(2 TOTAL)
(FIELD LOCATED)

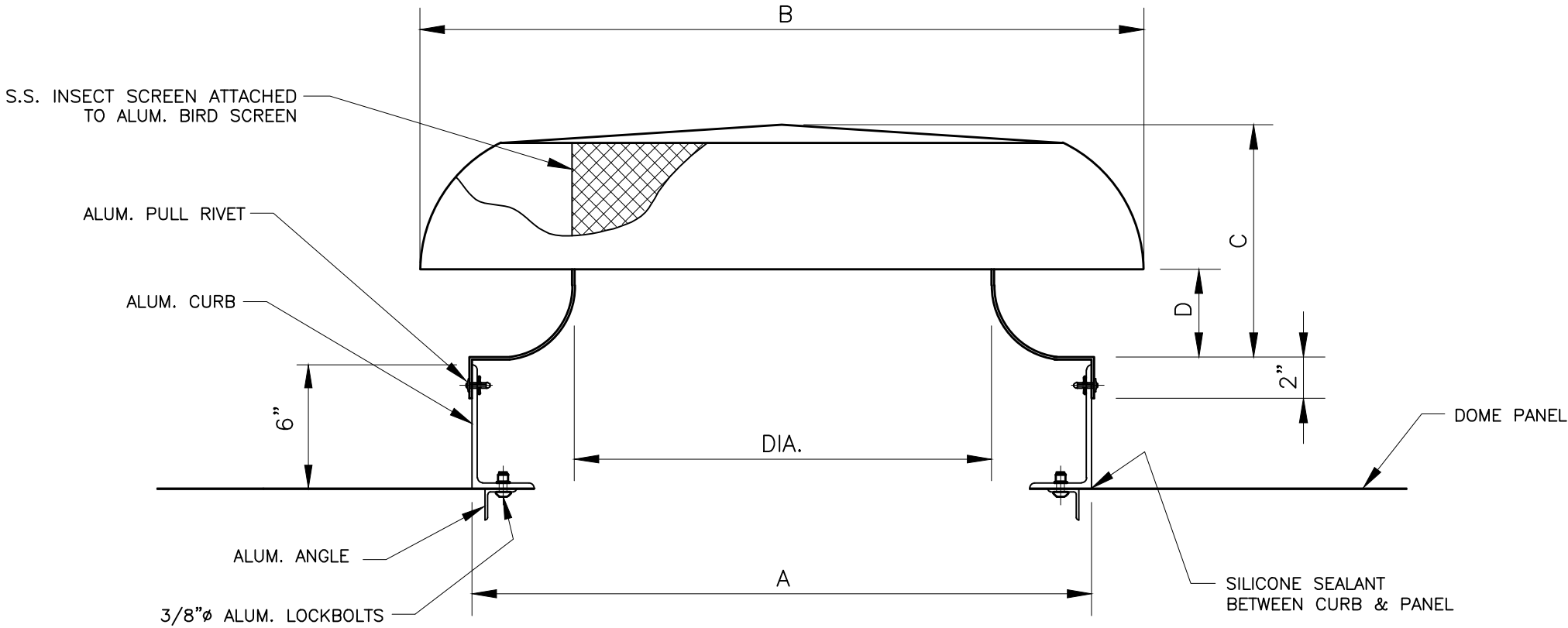
DWG. TITLE	VENTILATOR SPECIFICATIONS							
PROJECT DESCRIPTION	FINISHED WATER BASIN COVER PROJECT RICHMOND, VA							
JOB NO. 310002/686401	DRAWING NO. D-133	REVISION 0	CUST. CONTR. NO.					
TEMCOR 879 WEST 190TH STREET GARDENA, CALIF. 90248			ALL DESIGNS, IDEAS, PROCESSES OR DEVELOPMENTS ORIGINATED OR DISCLOSED BY TEMCOR ARE PROPRIETARY, PATENTED OR THE SUBJECT MATTER FOR PATENT APPLICATION, AND MAY NOT BE REPRODUCED WITHOUT WRITTEN PERMISSION FROM TEMCOR					
			0	12/03/10	RWR	DAB	100%	PRELIMINARY
			REV.	DATE:	DRWN BY		CHKD BY	DESCRIPTION
			CUSTOMER CITY OF RICHMOND					



3030 GALT-CM-I BRISTOLITE SKYLIGHT
(2 TOTAL)
(FIELD LOCATED)

100% SUBMITTAL

DWG. TITLE					SKYLIGHTS SPECIFICATIONS					<div>TEMCOR</div> <div>879 WEST 190th STREET GARDENA, CALIF. 90248</div>									
PROJECT DESCRIPTION					FINISHED WATER BASIN COVER PROJECT RICHMOND, VA					ALL DESIGNS, IDEAS, PROCESSES OR DEVELOPMENTS ORIGINATED OR DISCLOSED BY TEMCOR ARE PROPRIETARY, PATENTED OR THE SUBJECT MATTER FOR PATENT APPLICATION, AND MAY NOT BE REPRODUCED WITHOUT WRITTEN PERMISSION FROM TEMCOR					0 12/03/10 RWR DAB 100% PRELIMINARY				
JOB NO.					DRAWING NO.					REVISION					CUST. CONTR. NO.				
310002/686401					D-134					0									
										REV.					DATE:				
										DRWN BY					CHKD BY				
										CUSTOMER					CITY OF RICHMOND				



DIMENSIONS

SIZE	A	B	C	D	DIA.	DAMPER SIZE	CURB MATERIAL	SHROUD MATERIAL
36"	44 1/2"	56"	15 1/4"	6 1/4"	36 1/2"	36" x 36"	.064"	.080"

RELIEF PERFORMANCE CAPACITIES (CFM)

SIZE	THROAT AREA (Ft²)	.05PD	.075PD	.10PD	.125PD	.15PD	.20PD	.25PD	.30PD	.375PD
36"	7.07	4332	5306	6128	6850	7505	8665	9686	10611	11863

INTAKE PERFORMANCE CAPACITIES (CFM)

SIZE	THROAT AREA (Ft²)	.05PD	.075PD	.10PD	.125PD	.15PD	.20PD	.25PD	.30PD	.375PD
36"	7.07	3695	4525	5223	5840	6397	7386	8259	9046	10115

NOTE: CAPACITIES ARE MINIMUMS.
DIMENSIONS ARE NOMINAL.



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DWG. TITLE

VENTILATOR SPECIFICATIONS

PROJECT DESCRIPTION

FINISHED WATER BASIN COVER PROJECT
RICHMOND, VA

JOB NO.
310002/686401

DRAWING NO.
D-135

REVISION
0

CUST. CONTR. NO.

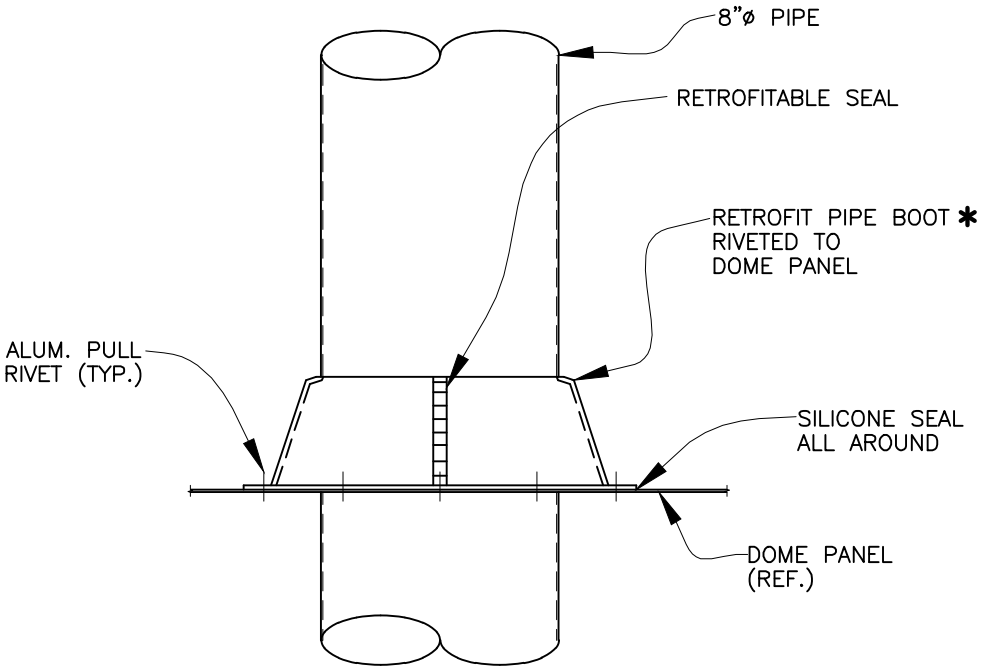
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REV. DATE: DRWN BY CHKD BY DESCRIPTION

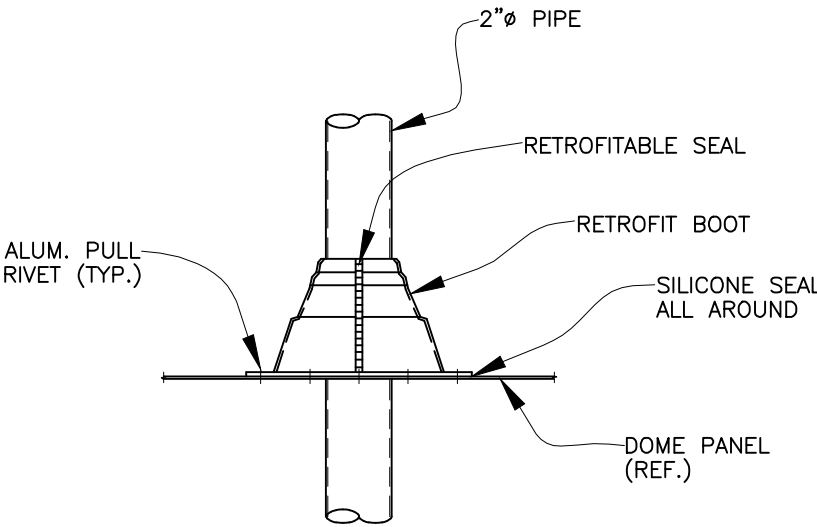
CUSTOMER

CITY OF RICHMOND

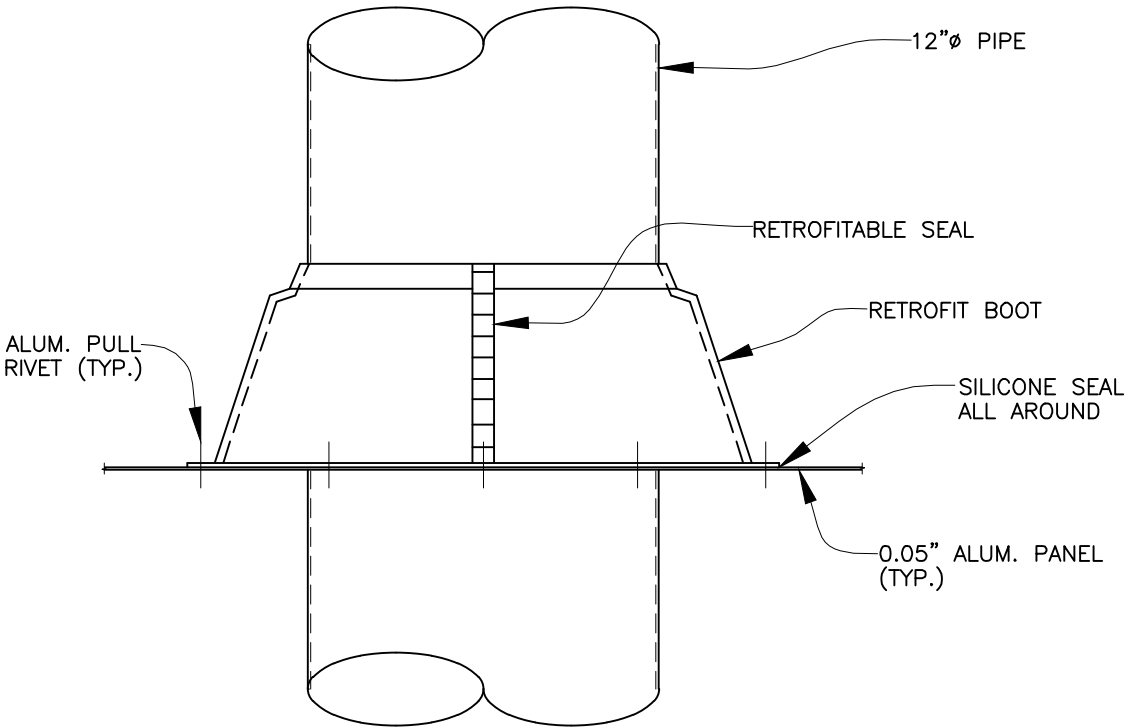
*** NOTE:**
THIS DETAIL IS PROVIDED TO ILLUSTRATE THE METHOD OF PENETRATION OF THE EQUIPMENT THROUGH THE DOME PANEL ONLY. PIPE FLASHING DATA IS SOLELY THE RESPONSIBILITY OF MASTERFLASH AND IS PROVIDED HERE FOR REFERENCE ONLY.



EXAMPLE 201RF PIPE BOOT



EXAMPLE 101RF PIPE BOOT

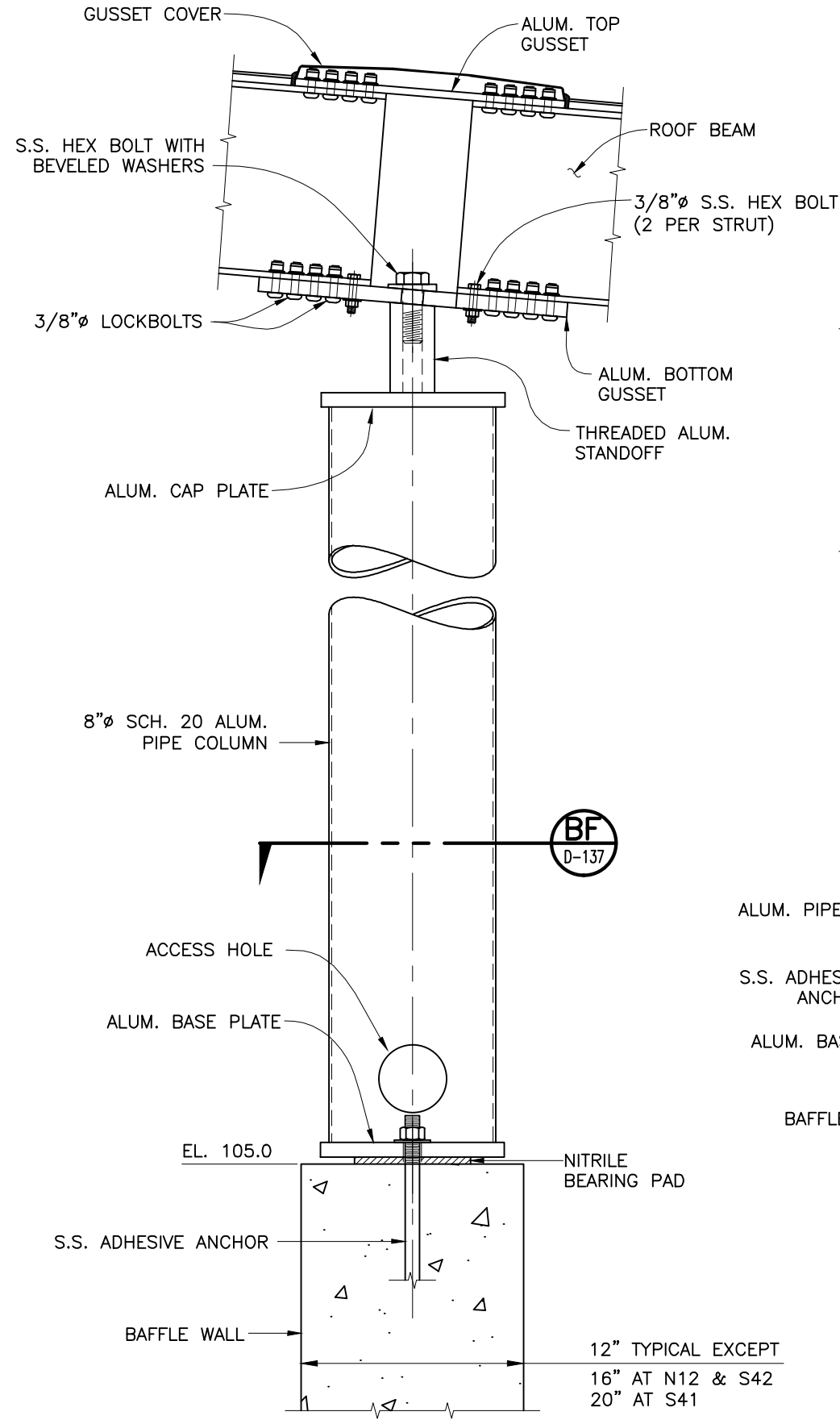


EXAMPLE 301RF PIPE BOOT

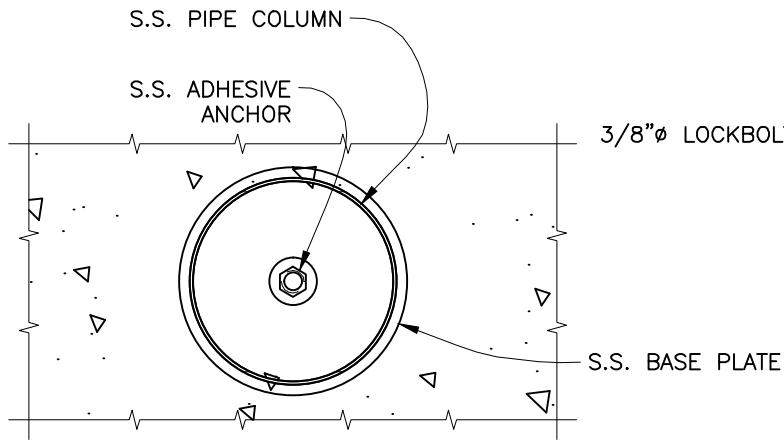
MASTER FLASH RETROFIT		
TEMPERATURE RANGE		
EPDM..... -65° - +200° (TYPE B GAS VENT)		
FLASH NO.	PIPE SIZE	BASE DIM.
101RF	1/2" - 4"	8 3/16"
201RF	4" - 9 1/4"	14 1/4"
301RF	9 1/4"-16 1/4"	21 1/2"

ALL DATA ABOVE PROVIDED BY MASTERFLASH

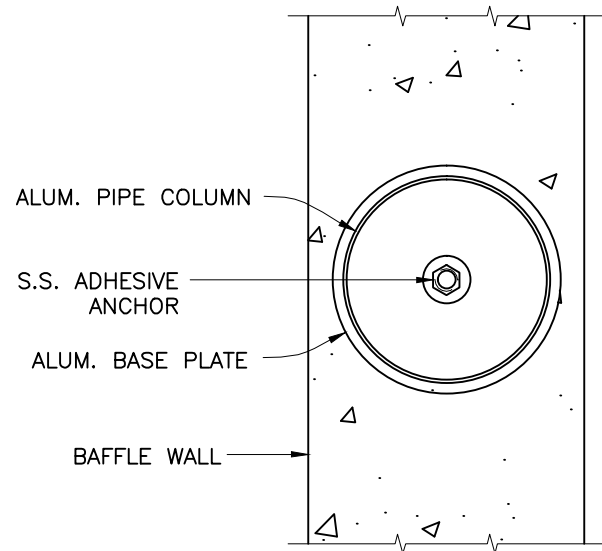
DWG. TITLE	PIPE BOOT DETAILS			
	PROJECT DESCRIPTION			
	FINISHED WATER BASIN COVER PROJECT RICHMOND, VA			
JOB NO.	DRAWING NO.	REVISION	CUST. CONTR. NO.	CITY OF RICHMOND
310002/686401	D-136	0		
0	12/03/10	RWR	DAB	100% PRELIMINARY
REV.	DATE:	DRWN BY	CHKD BY	DESCRIPTION



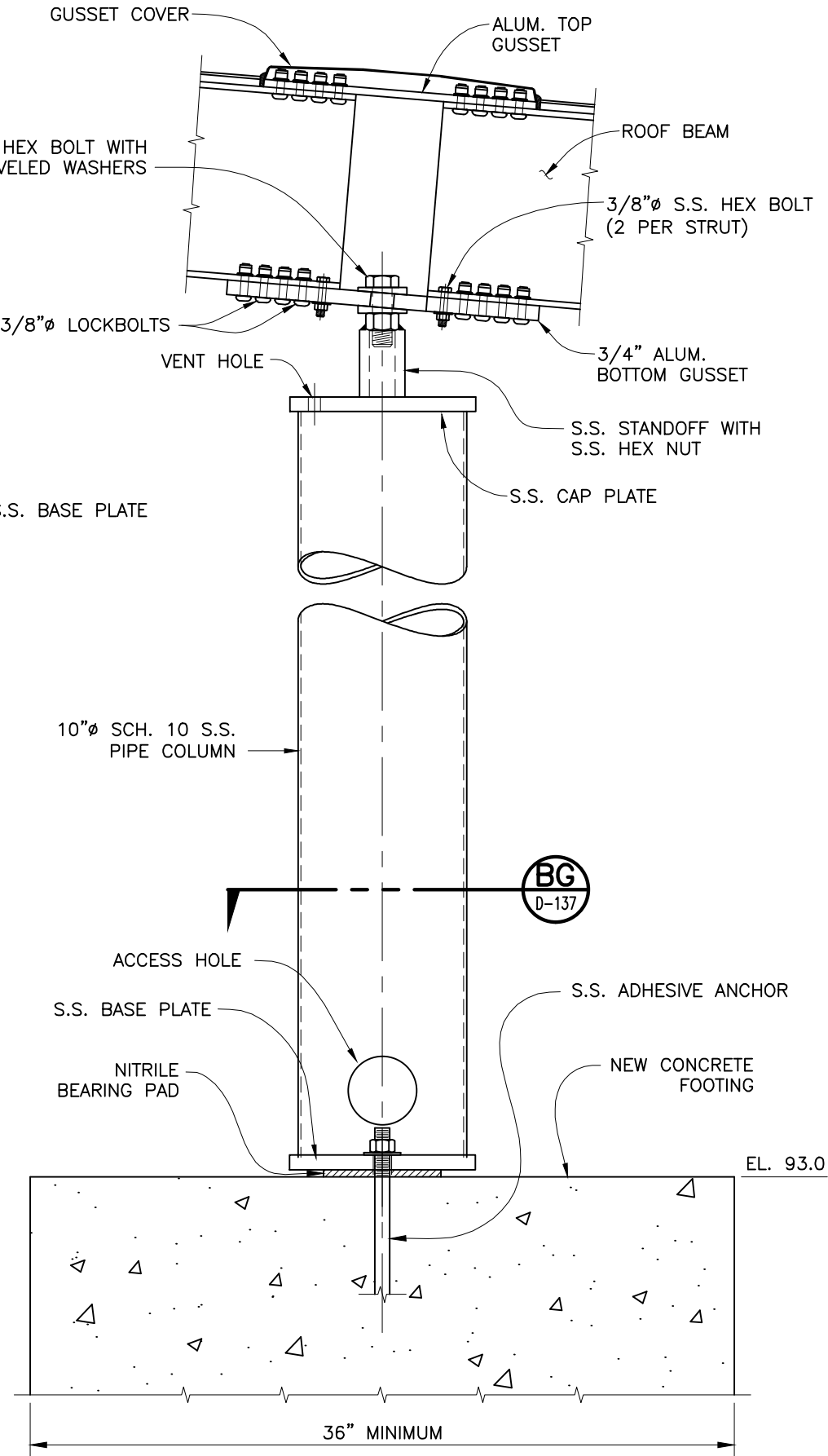
SECTION H-H
N.T.S. D-102 D-104



SECTION BG
N.T.S. D-137



SECTION BF
N.T.S. D-137



SECTION P-P
N.T.S. D-102 D-104

100% SUBMITTAL

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DWG. TITLE
INTERIOR COLUMN DETAILS

PROJECT DESCRIPTION
FINISHED WATER BASIN COVER PROJECT
RICHMOND, VA

JOB NO.
310002/686401

DRAWING NO.
D-137

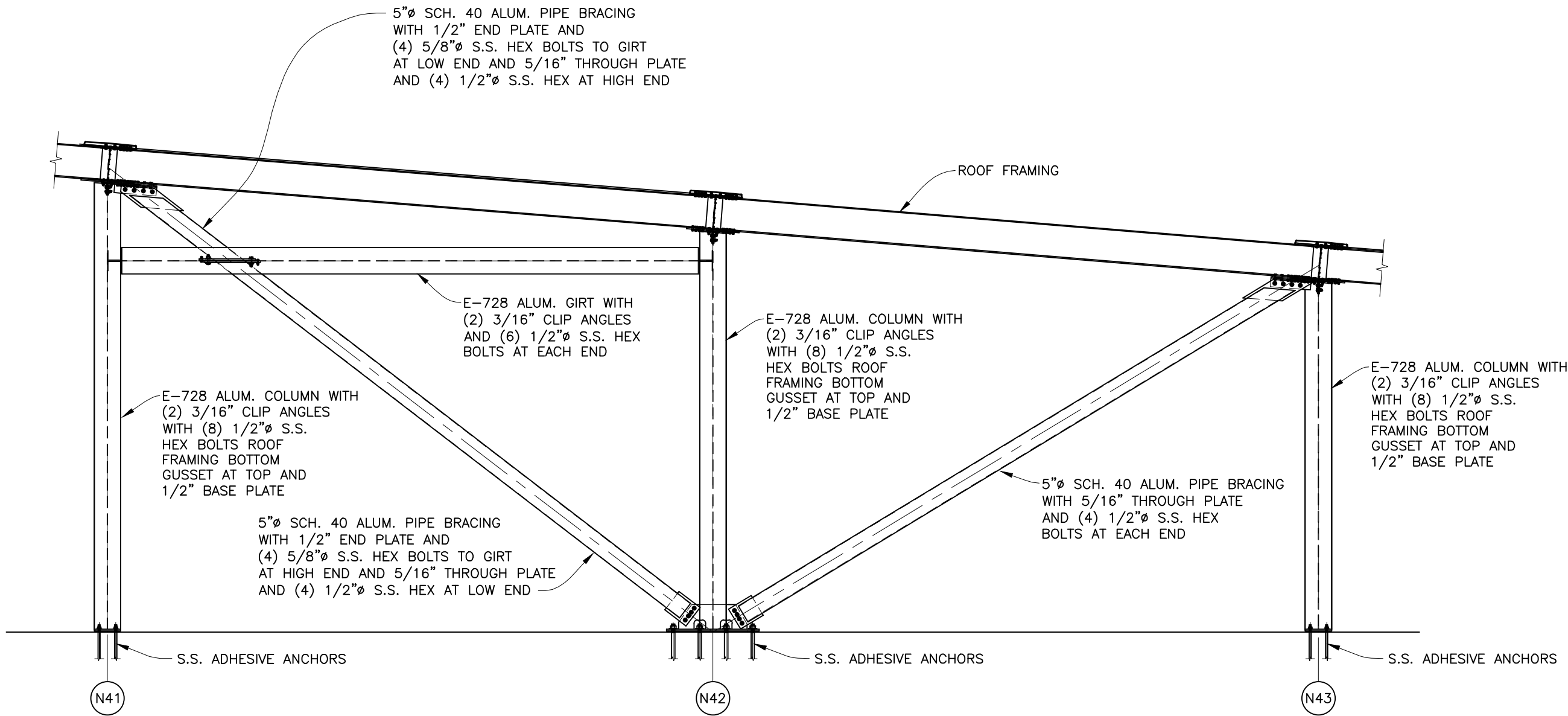
REVISION
0

CUST. CONTR. NO.

0 12/03/10 JMH DAB 100% PRELIMINARY

REV. DATE: DRWN BY CHKD BY DESCRIPTION

CUSTOMER
CITY OF RICHMOND



SECTION

Q
D-102

NORTH BASIN
(WEST WALL)
1:35

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GARDENA, CALIF. 90248

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DWG. TITLE

WALL BRACING AT NORTH BASIN

PROJECT DESCRIPTION

FINISHED WATER BASIN COVER PROJECT
RICHMOND, VA

JOB NO.
310002/686401

DRAWING NO.
D-138

REVISION
0

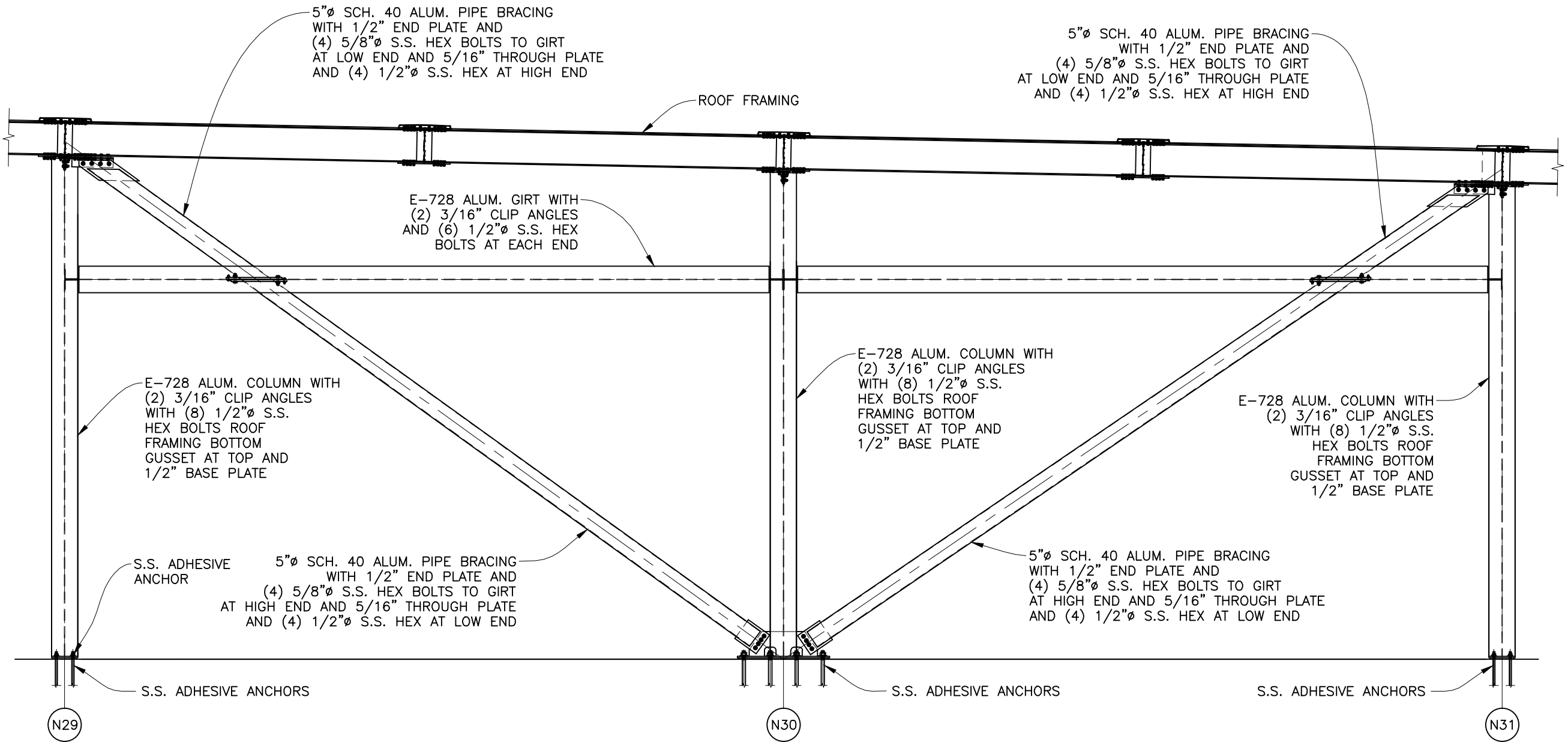
CUST. CONTR. NO.

0 12/03/10 ARG DAB 100% PRELIMINARY

REV. DATE: DRWN BY CHKD BY DESCRIPTION

CUSTOMER

CITY OF RICHMOND



SECTION R
NORTH BASIN
(SOUTH WALL)
1:35

100% SUBMITTAL

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GARDENA, CALIF. 90248

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DWG. TITLE

WALL BRACING AT NORTH BASIN

PROJECT DESCRIPTION

FINISHED WATER BASIN COVER PROJECT
RICHMOND, VA

JOB NO.
310002/686401

DRAWING NO.
D-139

REVISION
0

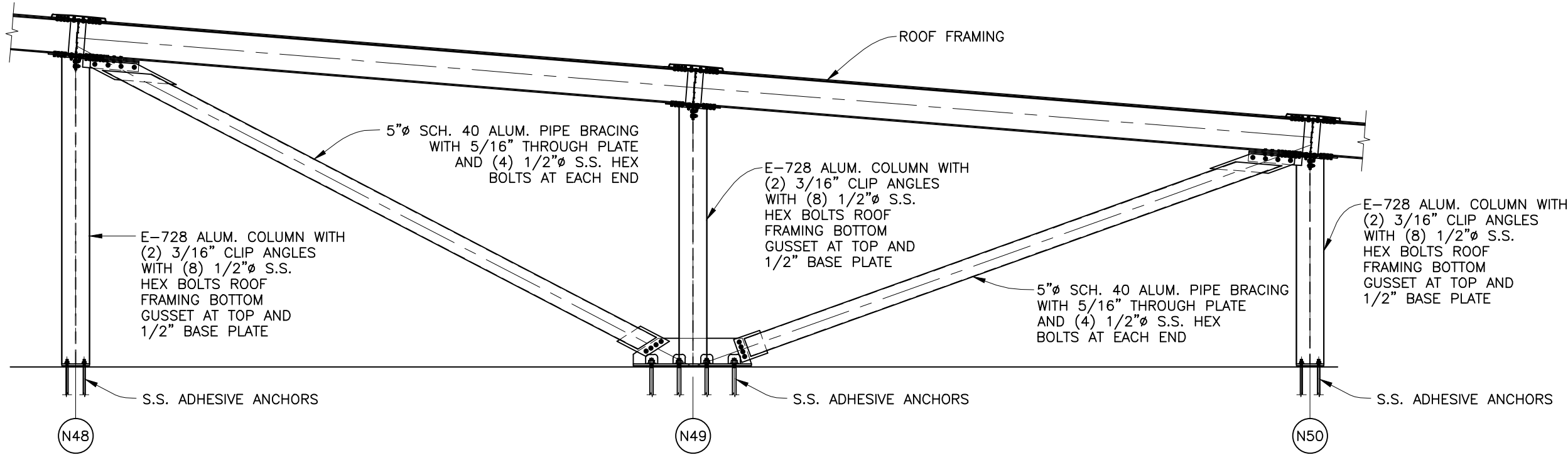
CUST. CONTR. NO.

0 12/03/10 ARG DAB 100% PRELIMINARY

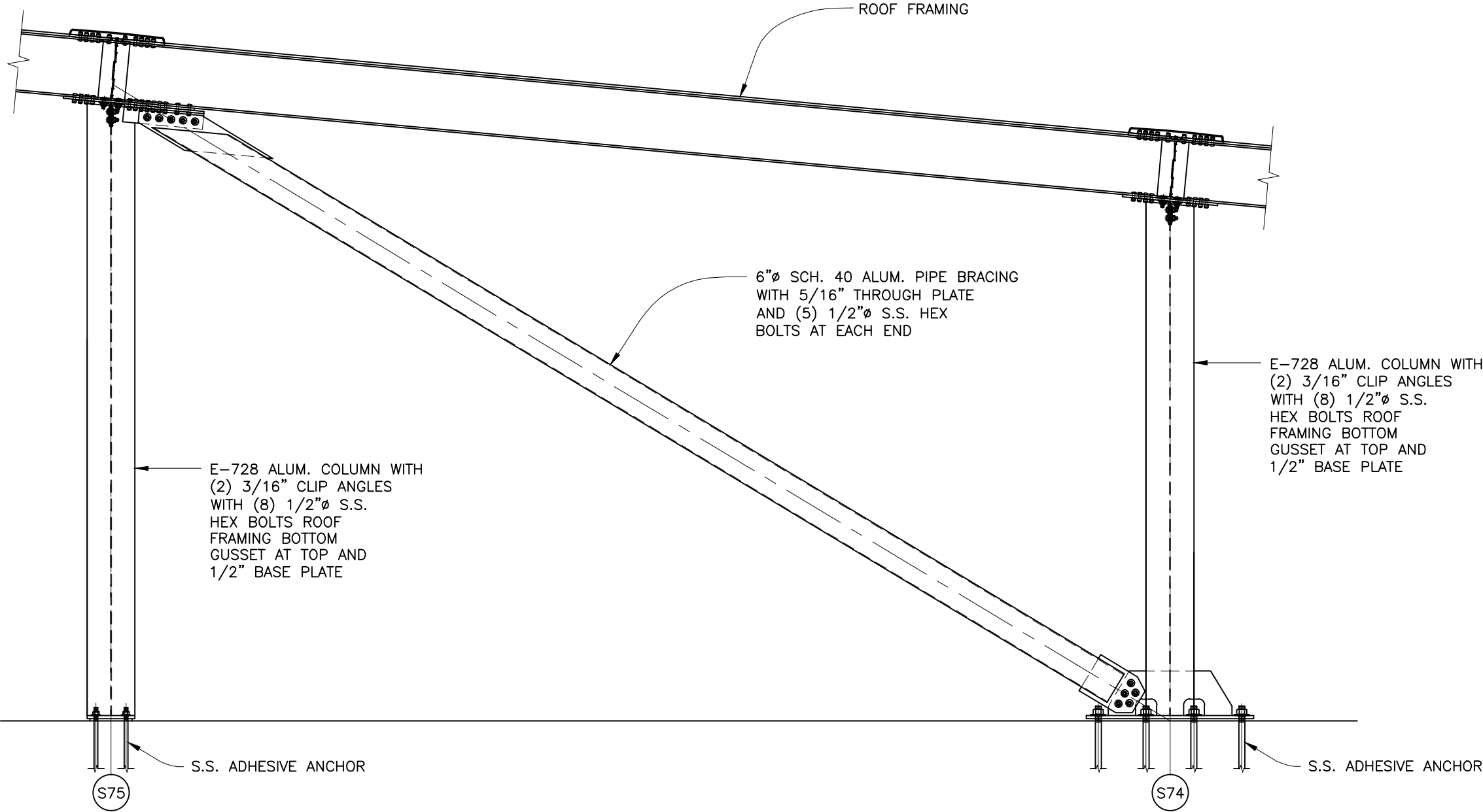
REV. DATE: DRWN BY CHKD BY DESCRIPTION

CUSTOMER

CITY OF RICHMOND



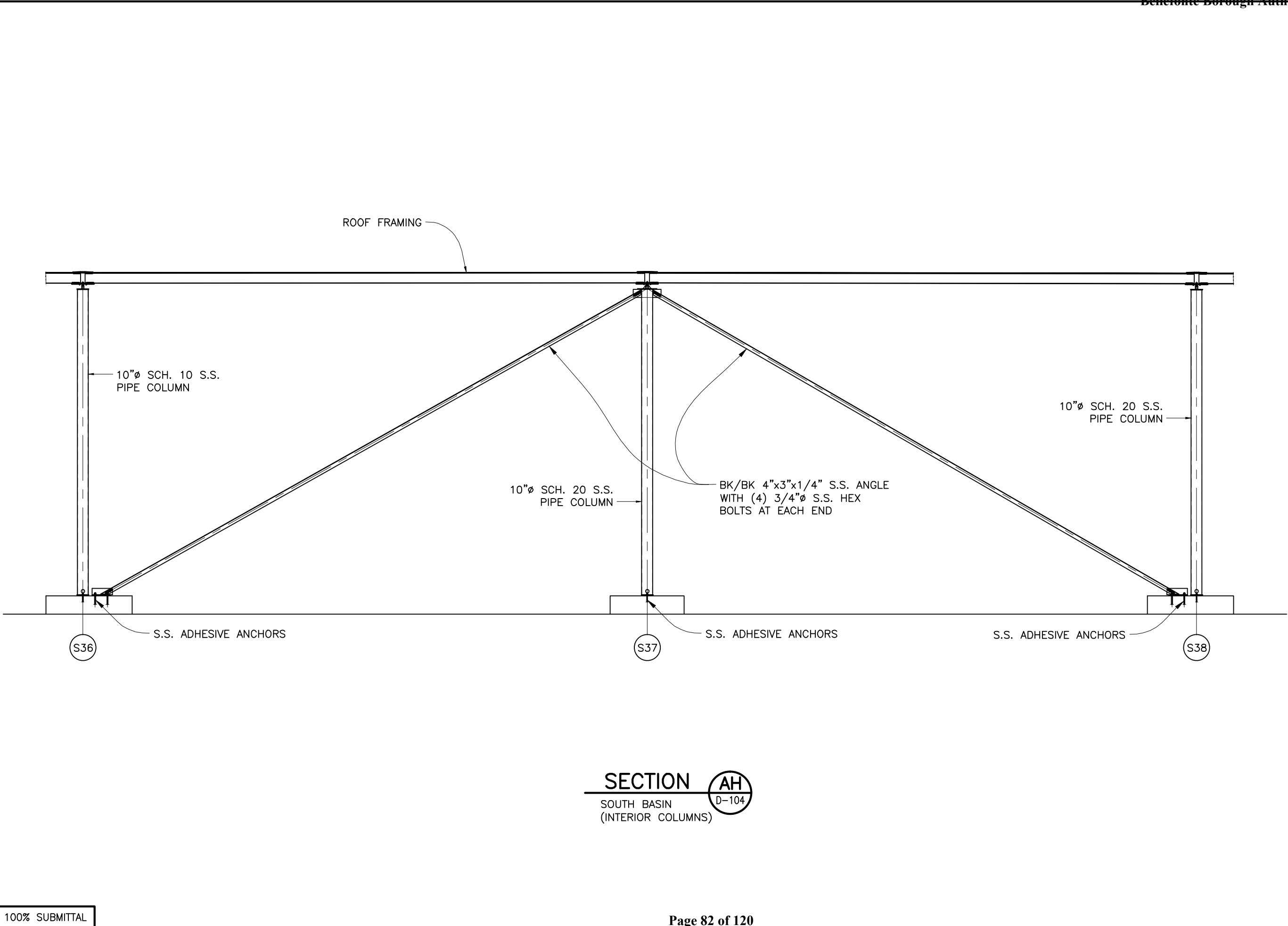
SECTION S
NORTH BASIN
(EAST WALL)
1:35



SECTION
SOUTH BASIN
(EAST WALL)

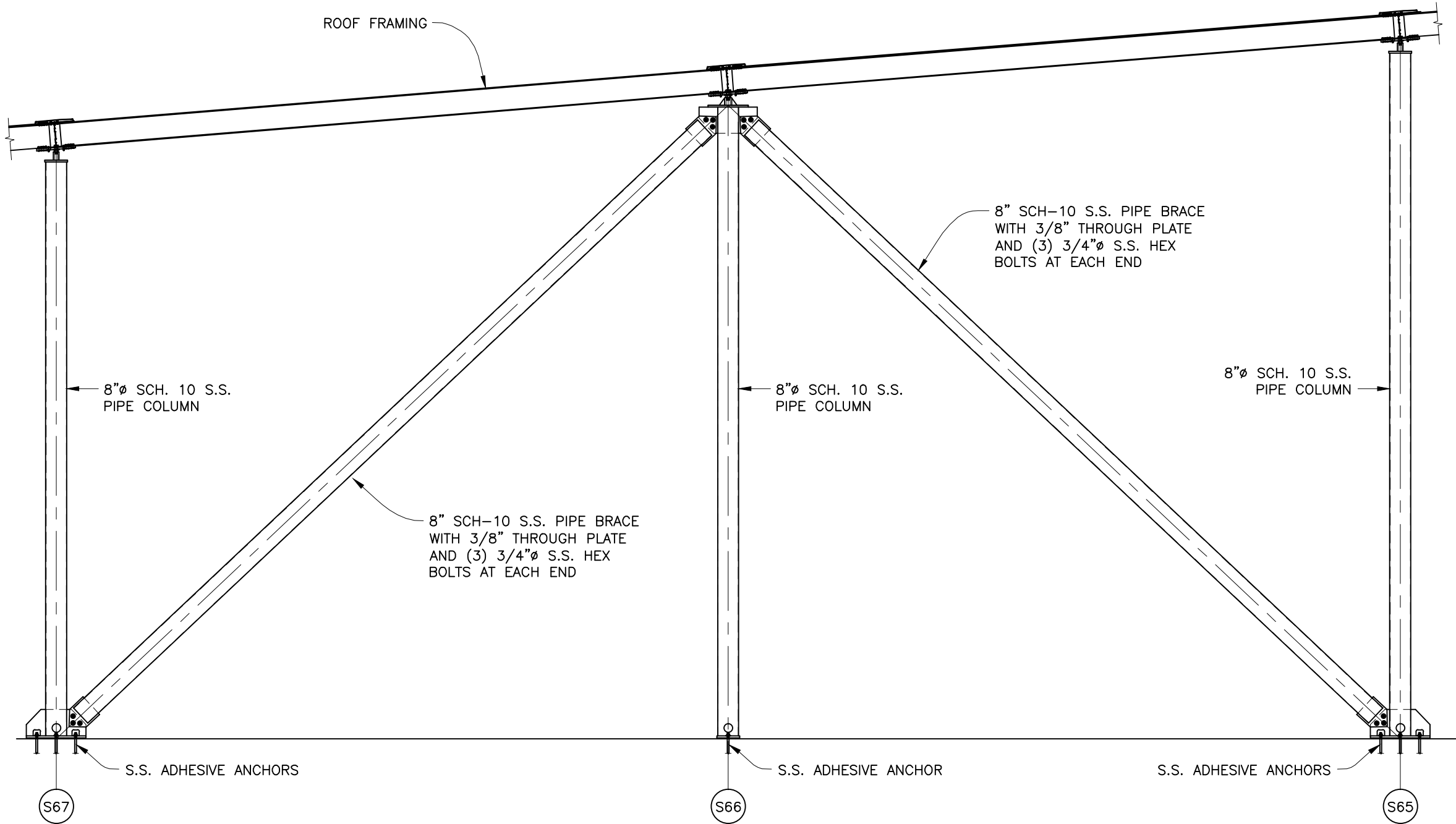
AG
D-104

DWG. TITLE		WALL BRACING AT SOUTH BASIN		<div>TEMCOR</div> <div>879 WEST 190th STREET GARDENA, CALIF. 90248</div> <div>ALL DESIGNS, IDEAS, PROCESSES OR DEVELOPMENTS ORIGINATED OR DISCLOSED BY TEMCOR ARE PROPRIETARY, PATENTED OR THE SUBJECT MATTER FOR PATENT APPLICATION, AND MAY NOT BE REPRODUCED WITHOUT WRITTEN PERMISSION FROM TEMCOR</div>		0		12/03/10	DAB	DCM	100% PRELIMINARY
PROJECT DESCRIPTION		FINISHED WATER BASIN COVER PROJECT RICHMOND, VA				REV.	DATE:	DRWN BY	CHKD BY	DESCRIPTION	
JOB NO.	310002/686401	DRAWING NO.	D-141	REVISION	0	CUST. CONTR. NO.		CITY OF RICHMOND			
						CUSTOMER					



100% SUBMITTAL

DWG. TITLE				INTERIOR BRACING AT SOUTH BASIN				<div>TEMCOR</div> <div>879 WEST 190TH STREET GARDENA, CALIF. 90248</div>				<div>ALL DESIGNS, IDEAS, PROCESSES OR DEVELOPMENTS ORIGINATED OR DISCLOSED BY TEMCOR ARE PROPRIETARY, PATENTED OR THE SUBJECT MATTER FOR PATENT APPLICATION, AND MAY NOT BE REPRODUCED WITHOUT WRITTEN PERMISSION FROM TEMCOR</div>							
PROJECT DESCRIPTION																			
FINISHED WATER BASIN COVER PROJECT RICHMOND, VA																			
JOB NO.	DRAWING NO.	REVISION	CUST. CONTR. NO.																
310002/686401	D-142	0																	
REV.				DATE:		DRWN BY		CHKD BY		0		12/03/10		DAB		DCM		100% PRELIMINARY	
CITY OF RICHMOND												CUSTOMER							



SECTION

SOUTH BASIN
(WEST WALL)



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GARDENA, CALIF. 90248

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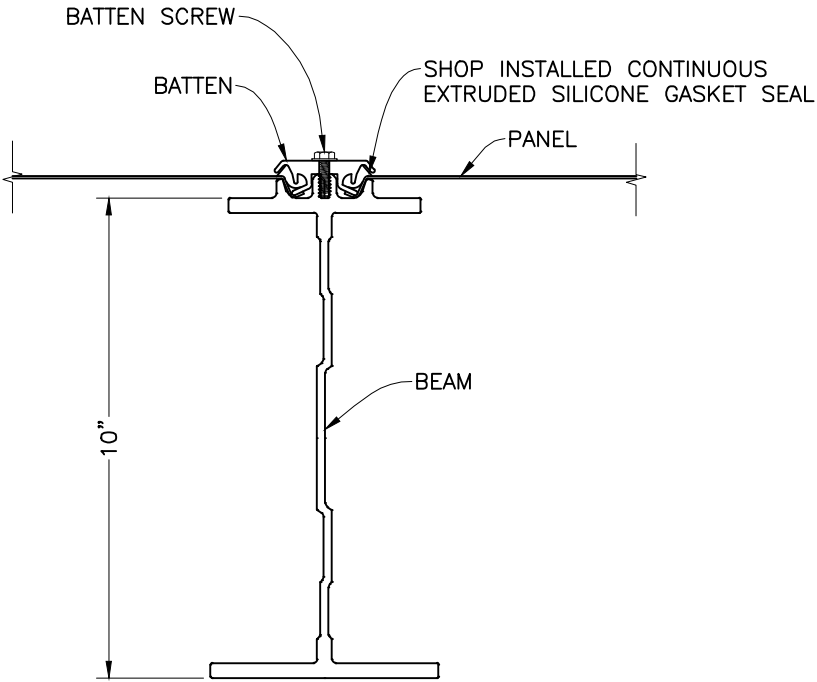
DWG. TITLE
WALL BRACING AT SOUTH BASIN

PROJECT DESCRIPTION
FINISHED WATER BASIN COVER PROJECT
RICHMOND, VA

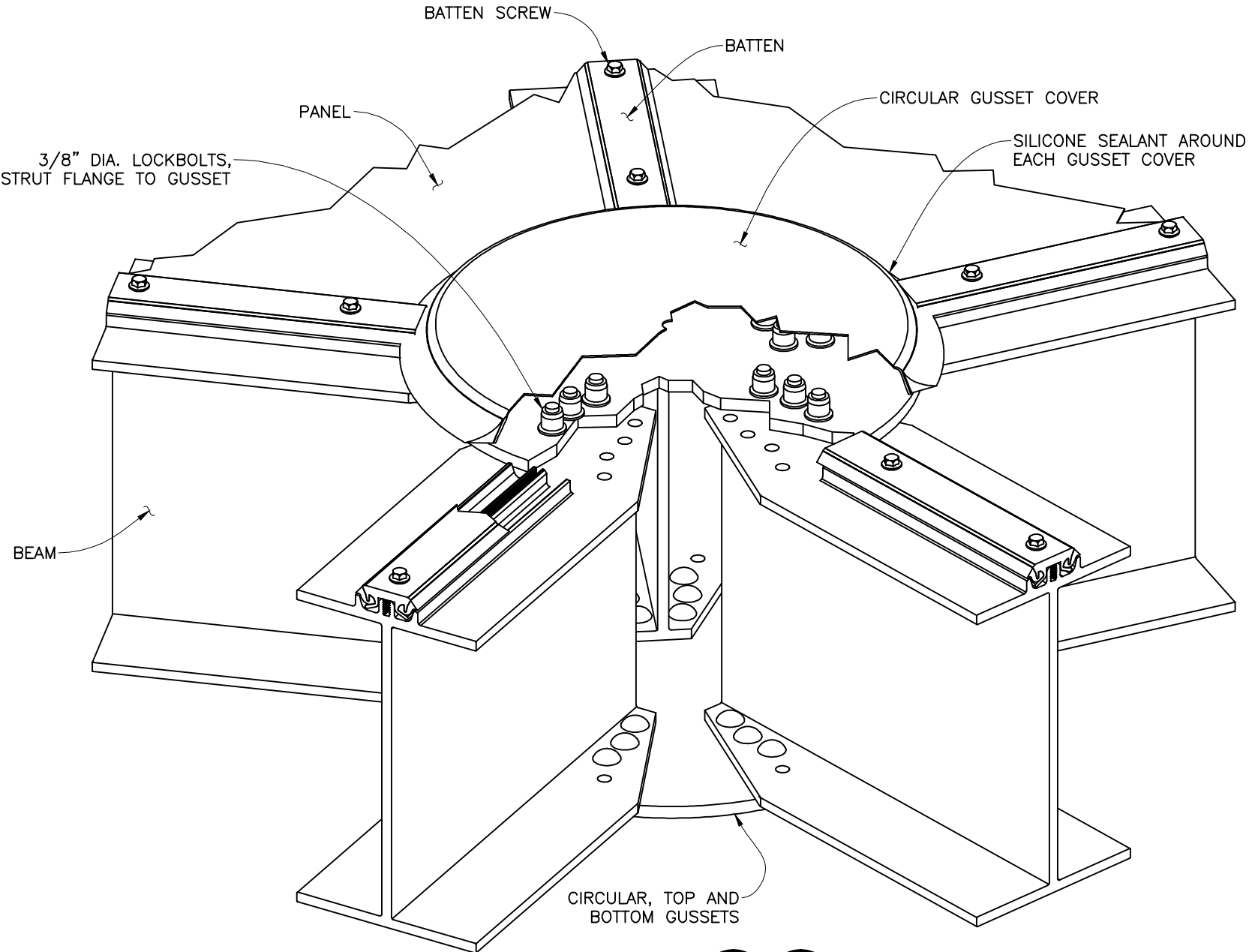
JOB NO. 310002/686401	DRAWING NO. D-143	REVISION 0	CUST. CONTR. NO.
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REV.	DATE:	DRWN BY	CHKD BY	DAB	DAB	100% PRELIMINARY	DESCRIPTION
0	12/03/10						

CUSTOMER
CITY OF RICHMOND



SECTION
N.T.S. G G
D-102 D-104



DETAIL
N.T.S. 3 3
D-102 D-104

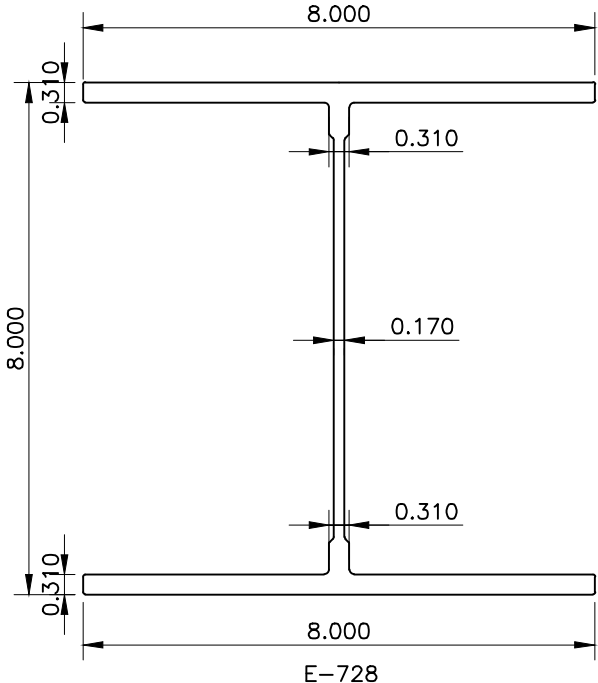
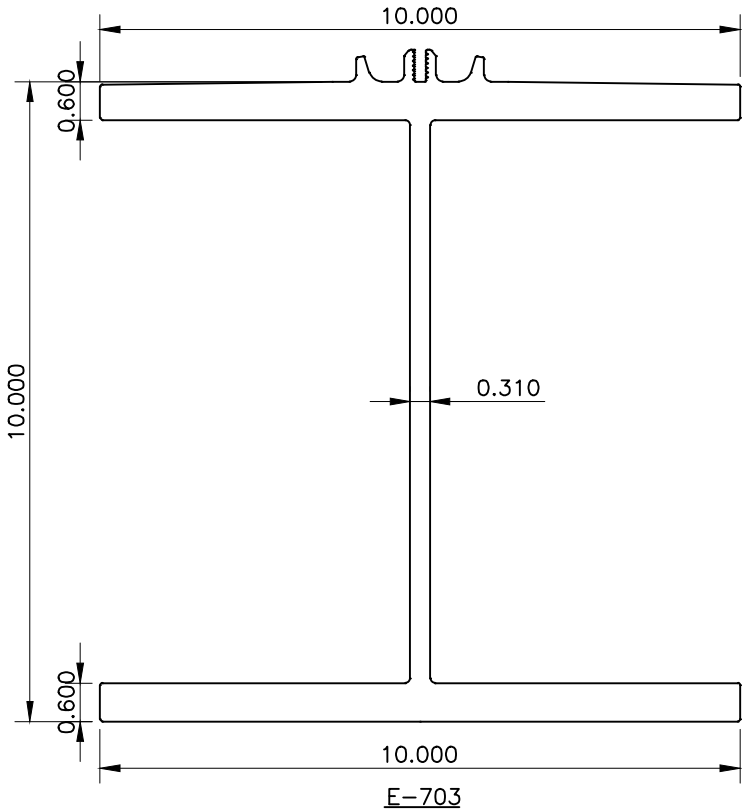
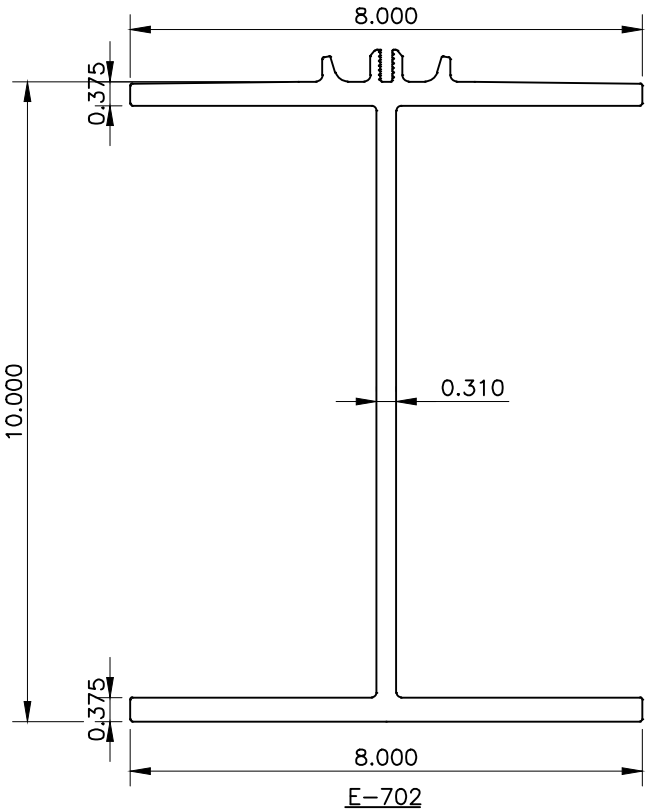
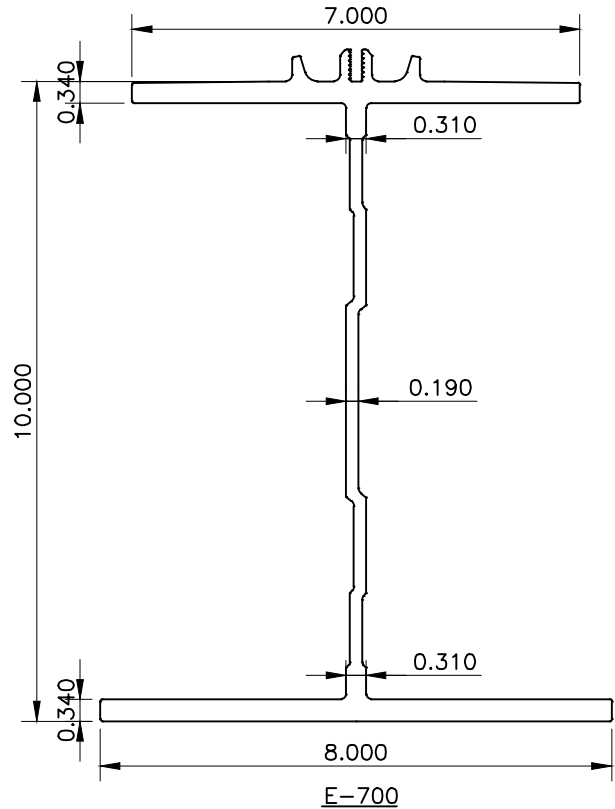
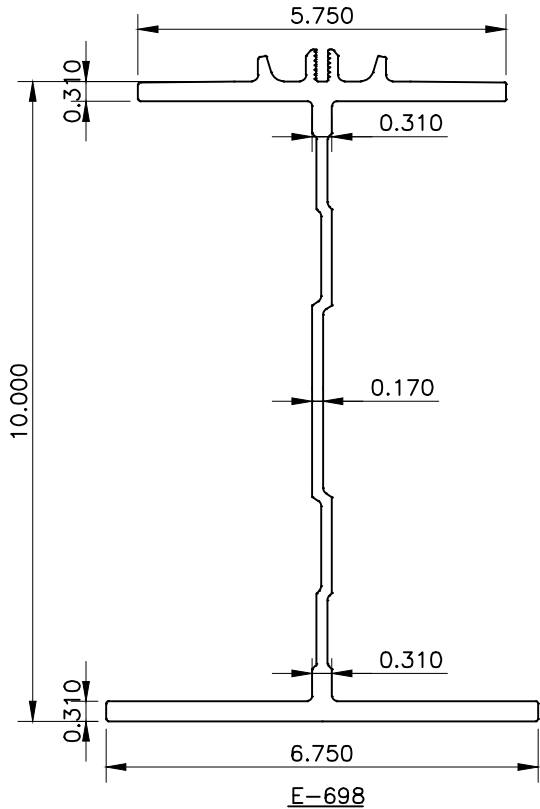
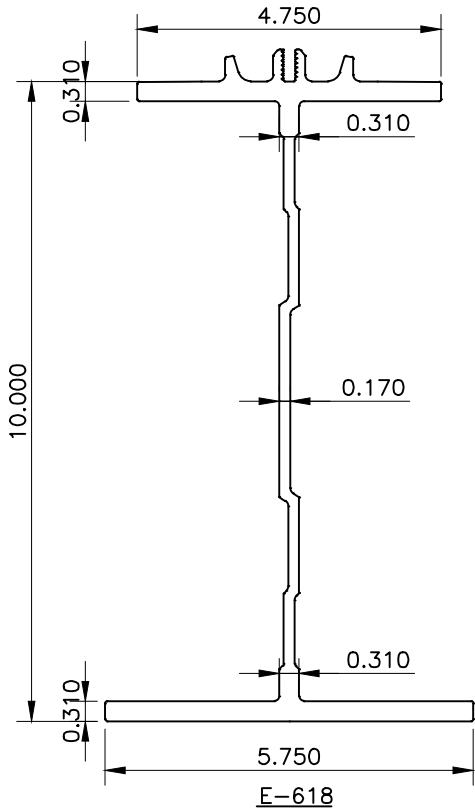
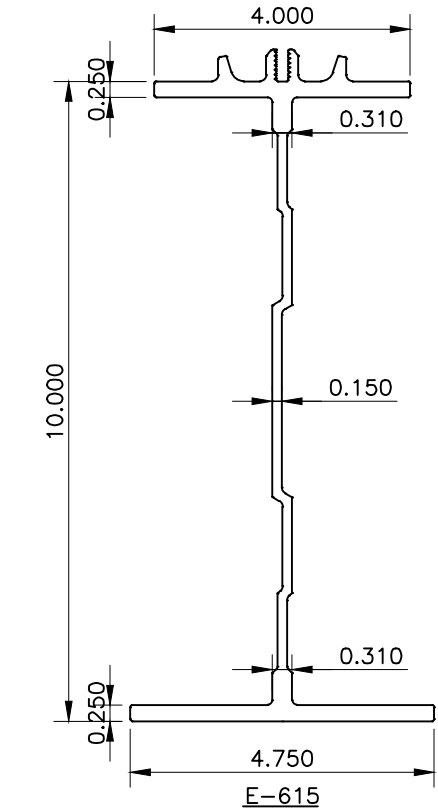
NOTES:

- ALL MATERIAL EXCEPT AS OTHERWISE NOTED IS MILL FINISH ALUMINUM AS FOLLOWS:
STRUTS, GUSSETS, SHAPES AND PLATES — 6061-T6
PANELS, FLASHING, AND GUSSET COVERS — 3003-H16 (MATTE FINISH)
BATTENS — 6061-T6 OR 6063-T6
V-BEAM SIDING — 3004 SERIES (STUCCO EMBOSSED)
SOUTH BASIN POST LIME MIXING CHAMBER ENCLOSURE — 5052-H36 (MATTE FINISH)
COLUMNS — ALUM. OR 316 S.S. AS NOTED
INSECT SCREEN — 304 S.S.
- MATERIAL SIZE:
STRUT — AS NOTED
TYPICAL ROOF GUSSETS — 3/8" THICK (U.N.O.)
PANEL AND FLASHING — 0.05" THICK
V-BEAM SIDING AND CLOSURE FLASHING — 0.05" THICK
SOUTH BASIN POST LIME MIXING CHAMBER ENCLOSURE — 0.09" THICK
HANDRAIL — 1 1/2" SCH. 40 PIPE
INSECT SCREEN — 18 X 14 MESH, 0.009 WIRE
- FASTENERS:
LOCKBOLTS — ALUMINUM (7075-T73) OR S.S. (300 SERIES) AS NOTED. (AL. LOCKBOLTS CLEAR ANODIZED 204)
HEX BOLTS — S.S. (304)
LOCKBOLT COLLARS — ALUMINUM (6061 HEAT TREATED)
BATTEN SCREWS — #14 DIA. S.S. (302)
CHEMICAL/ADHESIVE ANCHORS — HILTI HIT-RE 500-SD W/ 316 S.S. RODS, NUTS & WASHERS (NSF APPROVED)
WEDGE ANCHORS — HILTI KWIK BOLT TZ 304 S.S.
RAWL SPIKE ANCHORS — POWERS RAWL 316 S.S.
- SEALANT
PECORA SILICONE SEALANT MEETING FEDERAL SPEC TT-S-001543A AND TT-S-00230C.
- BEARING PADS
NONSLIDING SUPPORT BEARING PADS ARE NITRILE WITHOUT TEFLON (NSF APPROVED)
SLIDING SUPPORT BEARING PADS ARE NEOPRENE WITH TEFLON
- ALL DIMENSIONS SHOWN ARE NOMINAL AND IN INCHES, UNLESS NOTED OTHERWISE.
- ALL ALUMINUM SURFACES IN CONTACT WITH CONCRETE WILL BE SEPARATED WITH MACROPOXY 646 PAINT

DWG. TITLE	ROOF BEAM AND JOINT DETAILS			
	PROJECT DESCRIPTION			
JOB NO.	FINISHED WATER BASIN COVER PROJECT			
	RICHMOND, VA			
310002/686401	DRAWING NO.	D-144	REVISION	0
		CUST. CONTR. NO.		

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REV.	DATE:	DRWN BY	CHKD BY	DESCRIPTION
CUSTOMER				CITY OF RICHMOND



DWG. TITLE

EXTRUSION DETAILS

PROJECT DESCRIPTION

FINISHED WATER BASIN COVER PROJECT
RICHMOND, VA

JOB NO.

310002/686401

DRAWING NO.

D-145

REVISION

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CUST. CONTR. NO.

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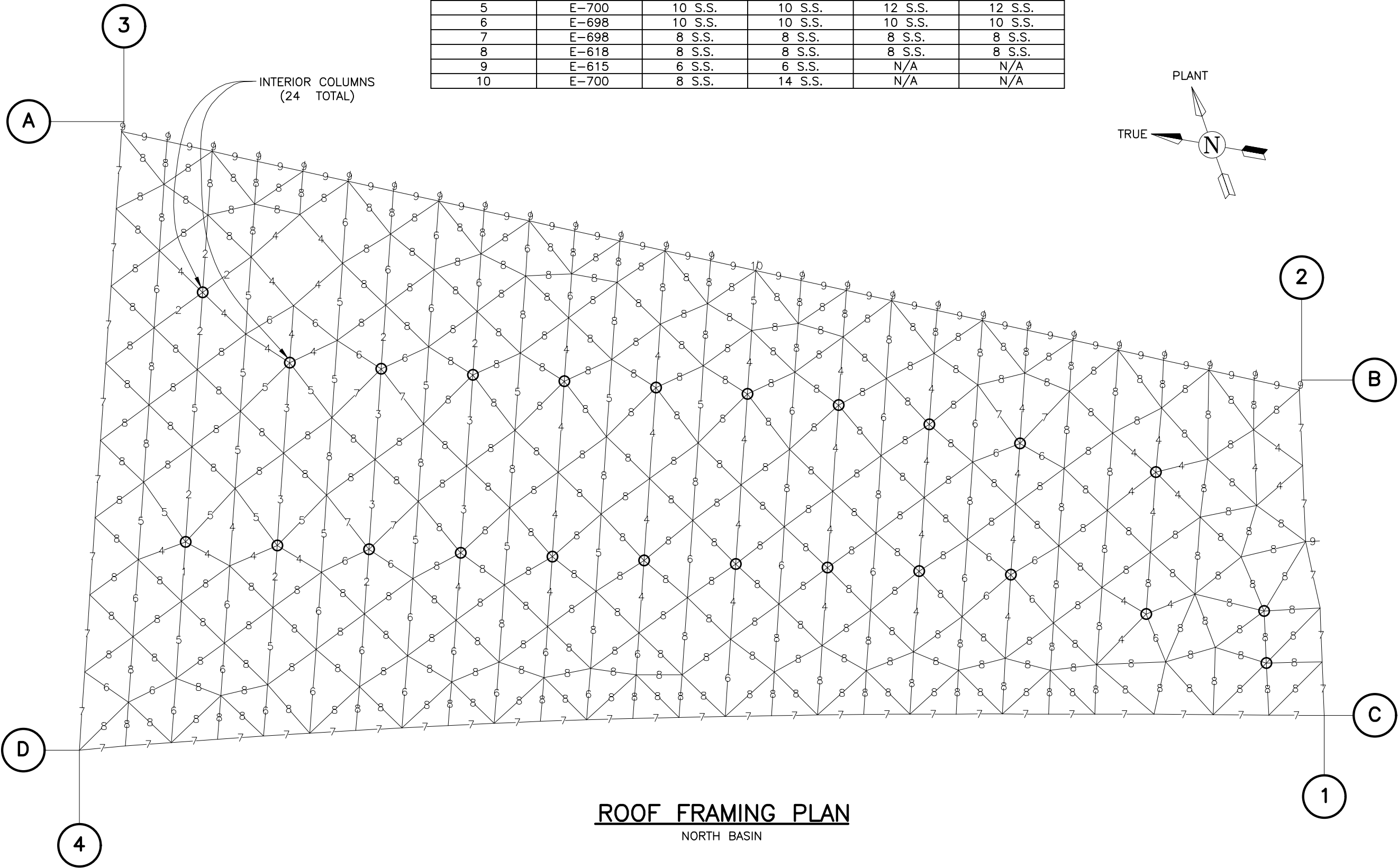
0 12/03/10 ARG DAB 100% PRELIMINARY

REV. DATE: DRWN BY CHKD BY DESCRIPTION

CUSTOMER

CITY OF RICHMOND

ROOF FRAMING					
GROUP NUMBER	EXTRUSION	TYPICAL		AT INTERIOR COLUMN	
		TOP FLANGE	BOTTOM FLANGE	TOP FLANGE	BOTTOM FLANGE
1	E-703	12 S.S.	12 S.S.	22 S.S.	22 S.S.
2	E-703	12 S.S.	12 S.S.	20 S.S.	20 S.S.
3	E-703	12 S.S.	12 S.S.	16 S.S.	16 S.S.
4	E-702	10 S.S.	10 S.S.	14 S.S.	14 S.S.
5	E-700	10 S.S.	10 S.S.	12 S.S.	12 S.S.
6	E-698	10 S.S.	10 S.S.	10 S.S.	10 S.S.
7	E-698	8 S.S.	8 S.S.	8 S.S.	8 S.S.
8	E-618	8 S.S.	8 S.S.	8 S.S.	8 S.S.
9	E-615	6 S.S.	6 S.S.	N/A	N/A
10	E-700	8 S.S.	14 S.S.	N/A	N/A



ROOF FRAMING PLAN
NORTH BASIN

100% SUBMITTAL

DWG. TITLE

NORTH BASIN ROOF FRAMING PLAN

PROJECT DESCRIPTION

FINISHED WATER BASIN COVER PROJECT
RICHMOND, VA

JOB NO.

310002/686401

DRAWING NO.

D-146

REVISION

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CUST. CONTR. NO.

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12/03/10

DAB

DCM

100% PRELIMINARY

REV.

DATE:

DRWN BY

CHKD BY

DESCRIPTION

CUSTOMER

CITY OF RICHMOND

- NOTES:
- 1: ALL ROOF SUPPORTS TO BE ON NEW CONCRETE ($f'_c = 5000\text{psi}$).
 - 2: NEW CONCRETE TO BE SURVEYED BEFORE ROOF FABRICATION.
 - 3: POST SET WEDGE ANCHORS TO BE USED ALONG NORTH WALL.
 - 4: POST SET ADHESIVE ANCHORS TO BE USED AT ALL COLUMNS.
 - 5: SPECIAL INSPECTION REQUIRED DURING ANCHOR INSTALLATION.
 - 6: SEE DRAWING D-148 FOR COLUMN INFORMATION.

ROOF SHOE CONNECTIONS ALONG NORTH WALL (TYP 26 PLACES INCLUDING DRAG TRANSFER SHOE)
MAXIMUM DEAD LOAD 0.5 KIPS (DOWN), MAXIMUM LIVE LOAD 3.7 KIPS (DOWN), MAXIMUM WIND LOAD
2.0 KIPS (UP). MAXIMUM HORIZONTAL LOAD 6% OF VERTICAL IN ANY DIRECTION EXCEPT ALONG WALL
AT DRAG TRANSFER SHOE. MAXIMUM HORIZONTAL ALONG WALL AT DRAG TRANSFER SHOE 4.9 KIPS
(WIND) AND 4.4 KIPS (SEISMIC). USE (2) $1\frac{1}{2}"\varnothing$ WEDGE ANCHORS (304 S.S.) WITH $3\frac{1}{4}"$
EMBEDMENT AT TYPICAL SHOES AND (2) $3\frac{3}{4}"\varnothing$ WEDGE ANCHORS (304 S.S.) WITH $3\frac{3}{4}"$
EMBEDMENT AT DRAG TRANSFER SHOE.

$(25) @ 9'-1\frac{9}{16}" = 2739.3"$

DRAG TRANSFER SHOE
(TYP 1 PLACE)

NORTH BASIN SUPPORT LAYOUT

TEMCOR
879 WEST 190TH STREET
GARDENA, CALIF. 90248

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DWG. TITLE
NORTH BASIN SUPPORT LAYOUT

PROJECT DESCRIPTION
FINISHED WATER BASIN COVER PROJECT
RICHMOND, VA

JOB NO.
310002/686401

DRAWING NO.
D-147

REVISION
0

CUST. CONTR. NO.

0 12/03/10 DAB DCM 100% PRELIMINARY

REV. DATE: DRWN BY CHKD BY DESCRIPTION

CUSTOMER
CITY OF RICHMOND

NORTH BASIN COLUMN REACTIONS, POSITIONS AND SIZES

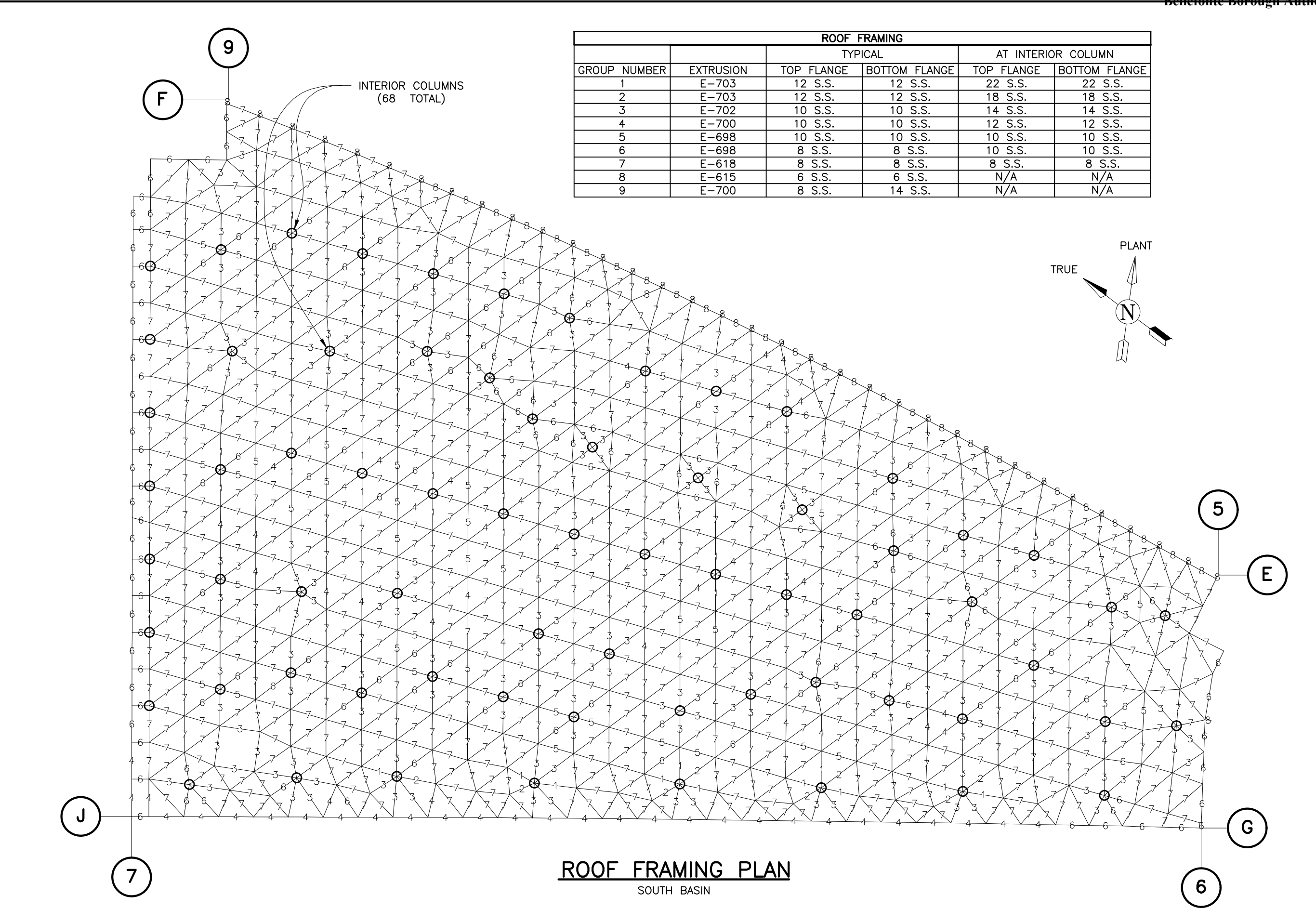
COLUMN NO.	DEAD LOAD	LIVE LOAD	WIND LOAD		SEISMIC LOAD		BASE POSITION			COLUMN SIZE	ANCHOR BOLT QTY. AND SIZE					
	V (kips)	V (kips)	V (kips)	H (kips)	V (kips)	H (kips)	X (ft)	Y (ft)	Z (ft)							
N01	4.5	24.7	-9.1	-	-	-	1079.96	1198.75	93.00	10"Ø SCH. 10 S.S. PIPE	(1)	3/4"Ø	ADHESIVE	ANCHOR	BOLT WITH 15"	EMBEDMENT
N02	2.9	17.5	-5.7	-	-	-	1068.60	1179.83	105.00	8"Ø SCH. 20 ALUM. PIPE	(1)	3/4"Ø	ADHESIVE	ANCHOR	BOLT WITH 15"	EMBEDMENT
N03	2.8	17.4	-5.7	-	-	-	1069.92	1161.81	105.00	8"Ø SCH. 20 ALUM. PIPE	(1)	3/4"Ø	ADHESIVE	ANCHOR	BOLT WITH 15"	EMBEDMENT
N04	2.7	17.3	-5.7	-	-	-	1071.22	1143.80	105.00	8"Ø SCH. 20 ALUM. PIPE	(1)	3/4"Ø	ADHESIVE	ANCHOR	BOLT WITH 15"	EMBEDMENT
N05	2.3	16.1	-5.2	-	-	-	1072.52	1125.78	105.00	8"Ø SCH. 20 ALUM. PIPE	(1)	3/4"Ø	ADHESIVE	ANCHOR	BOLT WITH 15"	EMBEDMENT
N06	2.1	15.0	-4.9	-	-	-	1073.80	1107.76	105.00	8"Ø SCH. 20 ALUM. PIPE	(1)	3/4"Ø	ADHESIVE	ANCHOR	BOLT WITH 15"	EMBEDMENT
N07	2.1	14.6	-4.8	-	-	-	1075.05	1089.74	105.00	8"Ø SCH. 20 ALUM. PIPE	(1)	3/4"Ø	ADHESIVE	ANCHOR	BOLT WITH 15"	EMBEDMENT
N08	2.0	13.6	-4.6	-	-	-	1075.36	1071.66	105.00	8"Ø SCH. 20 ALUM. PIPE	(1)	3/4"Ø	ADHESIVE	ANCHOR	BOLT WITH 15"	EMBEDMENT
N09	1.7	11.8	-4.0	-	-	-	1074.09	1053.46	105.00	8"Ø SCH. 20 ALUM. PIPE	(1)	3/4"Ø	ADHESIVE	ANCHOR	BOLT WITH 15"	EMBEDMENT
N10	2.1	14.8	-5.1	-	-	-	1072.86	1035.26	105.00	8"Ø SCH. 20 ALUM. PIPE	(1)	3/4"Ø	ADHESIVE	ANCHOR	BOLT WITH 15"	EMBEDMENT
N11	3.2	22.4	-7.5	-	-	-	1071.00	1007.96	105.00	8"Ø SCH. 20 ALUM. PIPE	(1)	7/8"Ø	ADHESIVE	ANCHOR	BOLT WITH 17.5"	EMBEDMENT
N12	3.7	23.9	-10.0	-	-	-	1030.80	1195.24	105.00	8"Ø SCH. 20 ALUM. PIPE	(1)	7/8"Ø	ADHESIVE	ANCHOR	BOLT WITH 17.5"	EMBEDMENT
N13	3.0	18.4	-7.2	-	-	-	1032.59	1177.26	105.00	8"Ø SCH. 20 ALUM. PIPE	(1)	7/8"Ø	ADHESIVE	ANCHOR	BOLT WITH 17.5"	EMBEDMENT
N14	2.7	17.2	-6.5	-	-	-	1034.38	1159.27	105.00	8"Ø SCH. 20 ALUM. PIPE	(1)	7/8"Ø	ADHESIVE	ANCHOR	BOLT WITH 17.5"	EMBEDMENT
N15	2.5	16.6	-6.1	-	-	-	1036.18	1141.29	105.00	8"Ø SCH. 20 ALUM. PIPE	(1)	3/4"Ø	ADHESIVE	ANCHOR	BOLT WITH 15"	EMBEDMENT
N16	2.3	16.4	-5.9	-	-	-	1037.96	1123.31	105.00	8"Ø SCH. 20 ALUM. PIPE	(1)	3/4"Ø	ADHESIVE	ANCHOR	BOLT WITH 15"	EMBEDMENT
N17	2.3	16.3	-5.8	-	-	-	1039.74	1105.33	105.00	8"Ø SCH. 20 ALUM. PIPE	(1)	3/4"Ø	ADHESIVE	ANCHOR	BOLT WITH 15"	EMBEDMENT
N18	2.2	15.6	-5.6	-	-	-	1041.54	1087.35	105.00	8"Ø SCH. 20 ALUM. PIPE	(1)	3/4"Ø	ADHESIVE	ANCHOR	BOLT WITH 15"	EMBEDMENT
N19	2.1	15.5	-5.6	-	-	-	1043.36	1069.37	105.00	8"Ø SCH. 20 ALUM. PIPE	(1)	3/4"Ø	ADHESIVE	ANCHOR	BOLT WITH 15"	EMBEDMENT
N20	1.9	13.3	-4.7	-	-	-	1045.19	1051.39	105.00	8"Ø SCH. 20 ALUM. PIPE	(1)	3/4"Ø	ADHESIVE	ANCHOR	BOLT WITH 15"	EMBEDMENT
N21	2.4	16.8	-6.1	-	-	-	1047.00	1033.41	105.00	8"Ø SCH. 20 ALUM. PIPE	(1)	3/4"Ø	ADHESIVE	ANCHOR	BOLT WITH 15"	EMBEDMENT
N22	2.5	17.8	-6.7	-	-	-	1043.04	1005.97	105.00	8"Ø SCH. 20 ALUM. PIPE	(1)	7/8"Ø	ADHESIVE	ANCHOR	BOLT WITH 17.5"	EMBEDMENT
N23	0.3	2.0	-2.0	-	-	-	987.29	1210.24	106.00	E-728 ALUM. I-BEAM	(2)	5/8"Ø	ADHESIVE	ANCHOR	BOLTS WITH 10"	EMBEDMENT
N24	1.1	6.7	-4.2	-	-	-	991.29	1192.49	106.00	E-728 ALUM. I-BEAM	(2)	5/8"Ø	ADHESIVE	ANCHOR	BOLTS WITH 10"	EMBEDMENT
N25	1.1	6.3	-4.2	-	-	-	995.07	1174.69	106.00	E-728 ALUM. I-BEAM	(2)	5/8"Ø	ADHESIVE	ANCHOR	BOLTS WITH 10"	EMBEDMENT
N26	1.0	6.1	-4.0	-	-	-	998.72	1156.86	106.00	E-728 ALUM. I-BEAM	(2)	5/8"Ø	ADHESIVE	ANCHOR	BOLTS WITH 10"	EMBEDMENT
N27	1.0	5.7	-3.7	-	-	-	1002.19	1139.00	106.00	E-728 ALUM. I-BEAM	(2)	5/8"Ø	ADHESIVE	ANCHOR	BOLTS WITH 10"	EMBEDMENT
N28	1.0	5.7	-3.6	-	-	-	1005.53	1121.12	106.00	E-728 ALUM. I-BEAM	(2)	5/8"Ø	ADHESIVE	ANCHOR	BOLTS WITH 10"	EMBEDMENT
N29	0.9	4.9	-5.2	-	±4.6	-	1008.62	1103.18	106.00	E-728 ALUM. I-BEAM	(2)	3/4"Ø	ADHESIVE	ANCHOR	BOLTS WITH 15"	EMBEDMENT
N30	0.9	5.2	-3.2	±9.0	±0.3	±11.0	1011.53	1085.22	106.00	E-728 ALUM. I-BEAM	(4)	7/8"Ø	ADHESIVE	ANCHOR	BOLTS WITH 15"	EMBEDMENT
N31	0.9	4.9	-5.2	-	±4.6	-	1014.36	1067.25	106.00	E-728 ALUM. I-BEAM	(2)	3/4"Ø	ADHESIVE	ANCHOR	BOLTS WITH 15"	EMBEDMENT
N32	0.9	4.7	-3.2	-	-	-	1017.08	1049.25	106.00	E-728 ALUM. I-BEAM	(2)	5/8"Ø	ADHESIVE	ANCHOR	BOLTS WITH 10"	EMBEDMENT
N33	0.9	4.6	-3.2	-	-	-	1019.62	1031.24	106.00	E-728 ALUM. I-BEAM	(2)	5/8"Ø	ADHESIVE	ANCHOR	BOLTS WITH 10"	EMBEDMENT
N34	0.7	3.2	-2.4	-	-	-	1022.14	1013.21	106.00	E-728 ALUM. I-BEAM	(2)	5/8"Ø	ADHESIVE	ANCHOR	BOLTS WITH 10"	EMBEDMENT
N35	0.4	2.0	-2.0	-	-	-	1023.74	1001.67	106.00	E-728 ALUM. I-BEAM	(2)	5/8"Ø	ADHESIVE	ANCHOR	BOLTS WITH 10"	EMBEDMENT
N36	0.4	2.0	-2.0	-	-	-	1025.27	990.12	106.00	E-728 ALUM. I-BEAM	(2)	5/8"Ø	ADHESIVE	ANCHOR	BOLTS WITH 10"	EMBEDMENT
N37	0.3	2.0	-2.0	-	-	-	1026.71	979.29	106.00	E-728 ALUM. I-BEAM	(2)	5/8"Ø	ADHESIVE	ANCHOR	BOLTS WITH 10"	EMBEDMENT
N38	0.2	2.0	-2.0	-	-	-	1028.14	968.46	107.00	E-728 ALUM. I-BEAM	(2)	5/8"Ø	ADHESIVE	ANCHOR	BOLTS WITH 10"	EMBEDMENT
N39	0.8	4.7	-2.9	-	-	-	1002.64	1211.33	106.00	E-728 ALUM. I-BEAM	(2)	5/8"Ø	ADHESIVE	ANCHOR	BOLTS WITH 10"	EMBEDMENT
N40	0.5	2.8	-2.3	-	-	-	1017.85	1212.42	106.00	E-728 ALUM. I-BEAM	(2)	5/8"Ø	ADHESIVE	ANCHOR	BOLTS WITH 10"	EMBEDMENT
N41	0.3	2.0	-6.7	-	±3.0	-	1033.06	1213.51	106.00	E-728 ALUM. I-BEAM	(2)	3/4"Ø	ADHESIVE	ANCHOR	BOLTS WITH 15"	EMBEDMENT
N42	0.6	3.4	-2.7	±17.0	±0.8	±8.8	1048.27	1214.59	106.00	E-728 ALUM. I-BEAM	(4)	7/8"Ø	ADHESIVE	ANCHOR	BOLTS WITH 15"	EMBEDMENT
N43	0.5	2.9	-6.1	-	±3.0	-	1063.48	1215.68	106.00	E-728 ALUM. I-BEAM	(2)	3/4"Ø	ADHESIVE	ANCHOR	BOLTS WITH 15"	EMBEDMENT
N44	0.3	2.0	-2.0	-	-	-	1078.69	1216.77	106.00	E-728 ALUM. I-BEAM	(2)	5/8"Ø	ADHESIVE	ANCHOR	BOLTS WITH 10"	EMBEDMENT
N45	0.6	3.5	-2.3	-	-	-	1093.90	1217.85	106.00	E-728 ALUM. I-BEAM	(2)	5/8"Ø	ADHESIVE	ANCHOR	BOLTS WITH 10"	EMBEDMENT
N46	0.3	2.0	-2.0	-	-	-	1038.57	970.34	106.00	E-728 ALUM. I-BEAM	(2)	5/8"Ø	ADHESIVE	ANCHOR	BOLTS WITH 10"	EMBEDMENT
N47	0.1	2.0	-2.0	-	-	-	1049.00	972.23	106.00	E-728 ALUM. I-BEAM	(2)	5/8"Ø	ADHESIVE	ANCHOR	BOLTS WITH 10"	EMBEDMENT
N48	0.6	3.5	-5.0	-	±2.0	-	1061.59	976.85	106.00	E-728 ALUM. I-BEAM	(2)	3/4"Ø	ADHESIVE	ANCHOR	BOLTS WITH 15"	EMBEDMENT
N49	0.8	4.5	-3.1	±15.3	±1.2	±6.5	1076.28	979.54	106.00	E-728 ALUM. I-BEAM	(4)	7/8"Ø	ADHESIVE	ANCHOR	BOLTS WITH 15"	EMBEDMENT
N50	0.2	2.0	-3.6	-	±1.4	-	1090.97	982.23	106.00	E-728 ALUM. I-BEAM	(2)	3/4"Ø	ADHESIVE	ANCHOR	BOLTS WITH 15"	EMBEDMENT
N51	0.5	3.9	-2.0	-	-	-	1036.79	981.17	106.00	6"Ø SCH. 40 ALUM. PIPE	(1)	3/4"Ø	ADHESIVE	ANCHOR	BOLT WITH 15"	EMBEDMENT
N52	1.3	10.0	-4.6	-	-	-	1046.87	983.05	106.00	6"Ø SCH. 40 ALUM. PIPE	(1)	3/4"Ø	ADHESIVE	ANCHOR	BOLT WITH 15"	EMBEDMENT

NOTES:

- 1: ABOVE HORIZONTAL REACTIONS IN PLANE OF VERTICAL WALL BRACING.
- 2: ALL COLUMNS TO HAVE A HORIZONTAL REACTION IN ANY DIRECTION OF UP TO 6% OF VERTICAL REACTION.
- 3: COLUMNS AT N23 THROUGH N50 TO HAVE HORIZONTAL WIND REACTION PERPENDICULAR TO WALL OF UP TO 1 KIP.
- 4: ABOVE POSITION ORIGIN TRANSPOSED 11,772,000' IN "X" AND 3,722,000' IN "Y" FROM CUSTOMER SURVEY.
- 5: ALL ADHESIVE ANCHORS TO BE HILTI HIT-RE 500-SD WITH 316 S.S. THREADED RODS.
- 6: SPECIAL INSPECTION REQUIRED DURING INSTALLATION OF WEDGE AND ADHESIVE ANCHORS PER ESR-1917 AND ESR-2322.
- 7: SEE DRAWING D-147 FOR COLUMN LAYOUT.

DWG. TITLE	NORTH BASIN COLUMN INFORMATION										0	12/03/10	RWR	DAB	100% PRELIMINARY	DESCRIPTION
	PROJECT DESCRIPTION															
	FINISHED WATER BASIN COVER PROJECT															
	RICHMOND, VA															
JOB NO.	DRAWING NO.										0	REVISION	CUST. CONTR. NO.	CITY OF RICHMOND		
	310002/686401															
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100% SUBMITTAL



ROOF FRAMING					
GROUP NUMBER	EXTRUSION	TYPICAL		AT INTERIOR COLUMN	
		TOP FLANGE	BOTTOM FLANGE	TOP FLANGE	BOTTOM FLANGE
1	E-703	12 S.S.	12 S.S.	22 S.S.	22 S.S.
2	E-703	12 S.S.	12 S.S.	18 S.S.	18 S.S.
3	E-702	10 S.S.	10 S.S.	14 S.S.	14 S.S.
4	E-700	10 S.S.	10 S.S.	12 S.S.	12 S.S.
5	E-698	10 S.S.	10 S.S.	10 S.S.	10 S.S.
6	E-698	8 S.S.	8 S.S.	10 S.S.	10 S.S.
7	E-618	8 S.S.	8 S.S.	8 S.S.	8 S.S.
8	E-615	6 S.S.	6 S.S.	N/A	N/A
9	E-700	8 S.S.	14 S.S.	N/A	N/A

DWG. TITLE

SOUTH BASIN ROOF FRAMING PLAN

PROJECT DESCRIPTION

FINISHED WATER BASIN COVER PROJECT
RICHMOND, VA

JOB NO.

310002/686401

DRAWING NO.

D-149

REVISION

0

CUST. CONTR. NO.

TEMCOR

879 WEST 190TH STREET
GARDENA, CALIF. 90248

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0 12/03/10 DAB DCM 100% PRELIMINARY

REV. DATE: DRWN BY CHKD BY DESCRIPTION

CUSTOMER

CITY OF RICHMOND

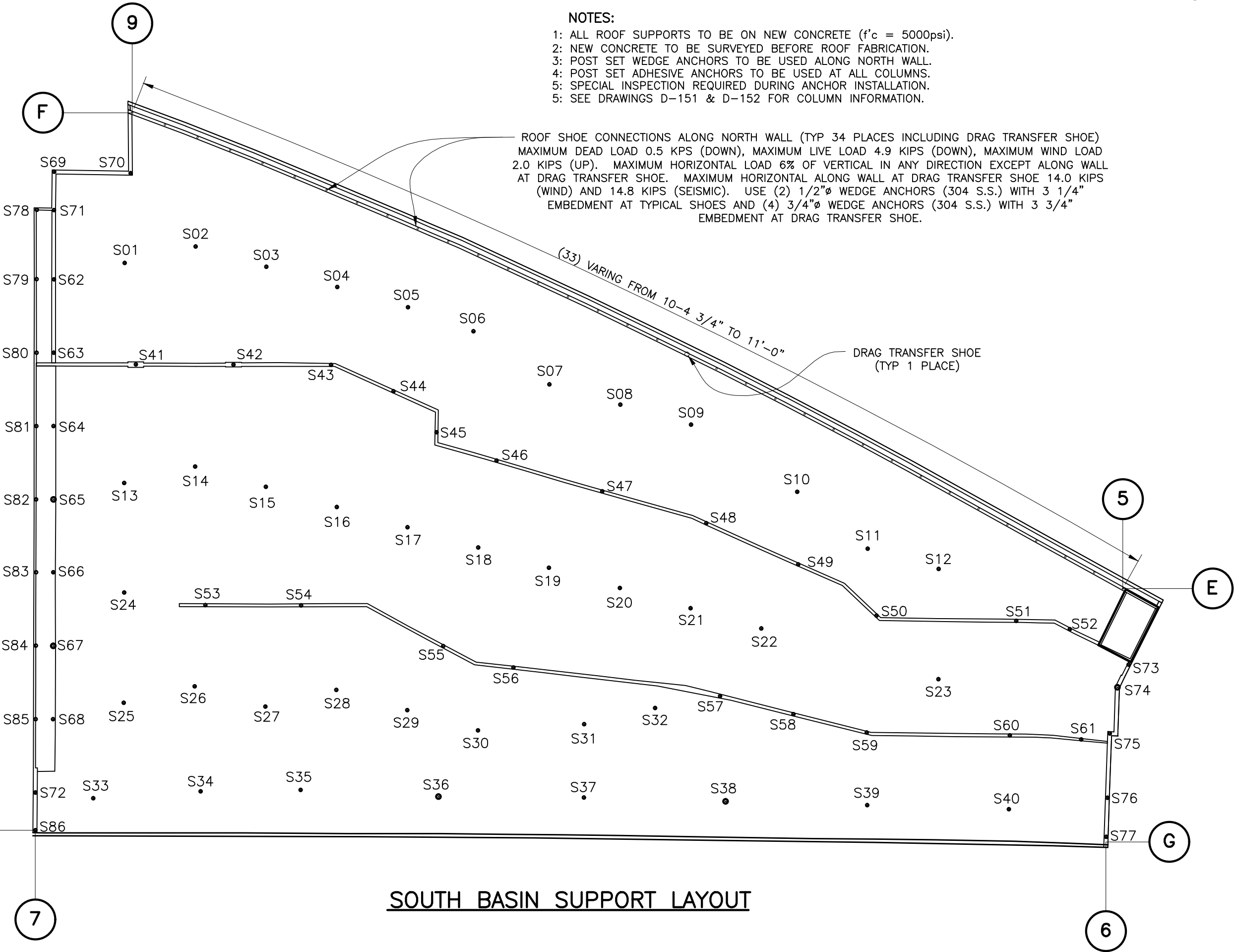
NOTES:

- 1: ALL ROOF SUPPORTS TO BE ON NEW CONCRETE (f'c = 5000psi).
- 2: NEW CONCRETE TO BE SURVEYED BEFORE ROOF FABRICATION.
- 3: POST SET WEDGE ANCHORS TO BE USED ALONG NORTH WALL.
- 4: POST SET ADHESIVE ANCHORS TO BE USED AT ALL COLUMNS.
- 5: SPECIAL INSPECTION REQUIRED DURING ANCHOR INSTALLATION.
- 5: SEE DRAWINGS D-151 & D-152 FOR COLUMN INFORMATION.

ROOF SHOE CONNECTIONS ALONG NORTH WALL (TYP 34 PLACES INCLUDING DRAG TRANSFER SHOE)
MAXIMUM DEAD LOAD 0.5 KIPS (DOWN), MAXIMUM LIVE LOAD 4.9 KIPS (DOWN), MAXIMUM WIND LOAD
2.0 KIPS (UP). MAXIMUM HORIZONTAL LOAD 6% OF VERTICAL IN ANY DIRECTION EXCEPT ALONG WALL
AT DRAG TRANSFER SHOE. MAXIMUM HORIZONTAL ALONG WALL AT DRAG TRANSFER SHOE 14.0 KIPS
(WIND) AND 14.8 KIPS (SEISMIC). USE (2) 1/2"Ø WEDGE ANCHORS (304 S.S.) WITH 3 1/4"
EMBEDMENT AT TYPICAL SHOES AND (4) 3/4"Ø WEDGE ANCHORS (304 S.S.) WITH 3 3/4"
EMBEDMENT AT DRAG TRANSFER SHOE.

(33) VARYING FROM 10'-4 3/4" TO 11'-0"

DRAG TRANSFER SHOE
(TYP 1 PLACE)



SOUTH BASIN SUPPORT LAYOUT

TEMCOR
879 WEST 190TH STREET
GARDENA, CALIF. 90248

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DWG. TITLE
SOUTH BASIN SUPPORT LAYOUT

PROJECT DESCRIPTION
FINISHED WATER BASIN COVER PROJECT
RICHMOND, VA

JOB NO.
310002/686401

DRAWING NO.
D-150

REVISION
0

CUST. CONTR. NO.

REV. 0 DATE: 12/03/10 DCM BY: DAB

100% PRELIMINARY DESCRIPTION

CUSTOMER
CITY OF RICHMOND

SOUTH BASIN COLUMN REACTIONS, POSITIONS AND SIZES

COLUMN NO.	DEAD LOAD V (kips)	LIVE LOAD V (kips)	WIND LOAD V (kips) H (kips)	SEISMIC LOAD V (kips) H (kips)	BASE POSITION X (ft) Y (ft) Z (ft)	COLUMN SIZE	ANCHOR BOLT QTY. AND SIZE
S01	2.9	18.6	-11.1 -	- -	911.68 1292.03 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S02	3.5	22.1	-9.1 -	- -	929.25 1277.32 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S03	3.1	20.2	-7.0 -	- -	937.58 1255.67 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S04	2.7	17.1	-6.3 -	- -	945.91 1234.03 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S05	2.3	14.2	-5.5 -	- -	954.24 1212.38 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S06	2.9	20.6	-7.2 -	- -	960.60 1191.30 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S07	3.2	23.3	-8.1 -	- -	961.65 1162.15 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S08	2.5	17.5	-6.0 -	- -	969.98 1140.50 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S09	3.2	24.6	-8.3 -	- -	978.36 1118.86 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S10	3.3	25.5	-8.4 -	- -	981.56 1079.45 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S11	2.4	16.4	-5.4 -	- -	980.64 1050.87 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S12	2.7	19.9	-6.5 -	- -	988.98 1029.22 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S13	3.4	26.9	-10.8 -	- -	856.20 1250.43 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S14	3.5	23.2	-7.6 -	- -	873.78 1235.72 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S15	3.9	28.3	-7.8 -	- -	882.11 1214.07 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S16	3.6	24.7	-6.9 -	- -	890.44 1192.42 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S17	3.4	23.3	-6.4 -	- -	898.76 1170.78 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S18	3.0	21.0	-5.9 -	- -	907.09 1149.13 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S19	2.9	20.7	-5.7 -	- -	915.42 1127.48 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S20	3.4	24.1	-6.6 -	- -	923.75 1105.83 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S21	2.6	17.8	-5.0 -	- -	923.08 1084.19 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S22	2.6	17.7	-5.2 -	- -	940.41 1062.54 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S23	3.4	23.6	-7.2 -	- -	961.23 1008.42 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S24	3.2	27.3	-9.6 -	- -	828.61 1229.70 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S25	2.9	21.6	-10.4 -	- -	800.85 1208.90 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S26	2.5	20.3	-5.6 -	- -	818.43 1194.19 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S27	2.3	18.8	-4.4 -	- -	826.76 1172.54 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S28	2.7	24.4	-5.1 -	- -	844.34 1157.82 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S29	2.2	20.8	-4.0 -	- -	852.67 1136.17 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S30	2.0	21.3	-3.3 -	- -	861.00 1114.53 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S31	2.6	25.1	-4.4 -	- -	882.75 1088.99 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S32	3.4	21.3	-6.4 -	- -	900.26 1074.24 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S33	3.4	24.8	-11.0 -	- -	771.03 1198.50 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S34	4.0	20.7	-11.6 -	- -	793.09 1172.79 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S35	4.7	24.5	-13.8 -	- -	812.42 1147.85 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S36	5.2	25.7	-20.1 20.4	-14.2 24.9	836.88 1111.91 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT (SEE NOTE 5)
S37	5.2	29.1	-14.8 -	14.2 -	864.24 1075.13 93.00	10"Ø SCH. 20 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S38	5.5	38.5	-20.1 20.4	-14.2 24.9	890.16 1038.76 93.00	10"Ø SCH. 20 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT (SEE NOTE 5)
S39	5.2	36.4	-14.6 -	- -	916.07 1002.40 93.00	10"Ø SCH. 20 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S40	3.8	20.7	-12.5 -	- -	941.91 966.00 93.00	10"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT

- NOTES:
- 1: ABOVE HORIZONTAL REACTIONS IN PLANE OF VERTICAL WALL BRACING.
- 2: ALL COLUMNS TO HAVE A HORIZONTAL REACTION IN ANY DIRECTION OF UP TO 6% OF VERTICAL REACTION.
- 3: ABOVE POSITION ORIGIN TRANPOSED 11,772,000' IN "X" AND 3,722,000' IN "Y" FROM CUSTOMER SURVEY.
- 4: ALL ADHESIVE ANCHORS TO BE HILTI HIT-RE 500-SD WITH 316 S.S. THREADED RODS.
- 5: AT COLUMNS S36 AND S38 ADD (4) 1"Ø ADHESIVE ANCHOR BOLTS WITH 20" EMBEDMENT FOR BRACING ATTACHMENT.
- 6: SPECIAL INSPECTION REQUIRED DURING INSTALLATION OF WEDGE AND ADHESIVE ANCHORS PER ESR-1917 AND ESR-2322.
- 7: SEE DRAWING D-150 FOR COLUMN LAYOUT.



ALL DESIGNS, IDEAS, PROCESSES OR DEVELOPMENTS ORIGINATED OR DISCLOSED BY TEMCOR ARE PROPRIETARY, PATENTED OR THE SUBJECT MATTER FOR PATENT APPLICATION, AND MAY NOT BE REPRODUCED WITHOUT WRITTEN PERMISSION FROM TEMCOR

DWG. TITLE

SOUTH BASIN COLUMN INFORMATION

PROJECT DESCRIPTION

FINISHED WATER BASIN COVER PROJECT
RICHMOND, VA

JOB NO.

310002/686401

DRAWING NO.

0

REVISION

CUST. CONTR. NO.

REV.

DATE:

12/03/10

RWR

CHKD BY

DAB

100% PRELIMINARY

DESCRIPTION

CITY OF RICHMOND

CUSTOMER

SOUTH BASIN COLUMN REACTIONS, POSITIONS AND SIZES (CONT.)

COLUMN NO.	DEAD LOAD	LIVE LOAD	WIND LOAD		SEISMIC LOAD		BASE POSITION			COLUMN SIZE	ANCHOR BOLT QTY. AND SIZE
	V (kips)	V (kips)	V (kips)	H (kips)	V (kips)	H (kips)	X (ft)	Y (ft)	Z (ft)		
S41	3.4	24.9	-13.2	-	-	-	888.22	1269.99	105.00	8"Ø SCH. 20 ALUM. PIPE	(1) 1"Ø ADHESIVE ANCHOR BOLT WITH 20" EMBEDMENT
S42	3.4	24.0	-8.2	-	-	-	906.74	1245.39	105.00	8"Ø SCH. 20 ALUM. PIPE	(1) 7/8"Ø ADHESIVE ANCHOR BOLT WITH 17.5" EMBEDMENT
S43	2.7	19.4	-6.2	-	-	-	925.14	1220.82	105.00	8"Ø SCH. 20 ALUM. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S44	2.3	15.6	-4.9	-	-	-	930.33	1200.08	105.00	8"Ø SCH. 20 ALUM. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S45	2.1	14.8	-4.8	-	-	-	928.21	1181.47	105.00	8"Ø SCH. 20 ALUM. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S46	2.6	17.8	-5.6	-	-	-	932.40	1161.02	105.00	8"Ø SCH. 20 ALUM. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S47	3.0	21.1	-6.6	-	-	-	944.72	1128.60	105.00	8"Ø SCH. 20 ALUM. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S48	3.1	21.8	-7.2	-	-	-	956.45	1096.35	105.00	8"Ø SCH. 20 ALUM. PIPE	(1) 7/8"Ø ADHESIVE ANCHOR BOLT WITH 17.5" EMBEDMENT
S49	1.9	13.1	-4.2	-	-	-	963.50	1065.46	105.00	8"Ø SCH. 20 ALUM. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S50	2.5	18.3	-5.8	-	-	-	965.50	1036.03	105.00	8"Ø SCH. 20 ALUM. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S51	2.6	19.5	-6.3	-	-	-	990.67	999.88	105.00	8"Ø SCH. 20 ALUM. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S52	2.1	15.2	-7.1	-	-	-	998.69	984.80	105.00	8"Ø SCH. 20 ALUM. PIPE	(1) 7/8"Ø ADHESIVE ANCHOR BOLT WITH 17.5" EMBEDMENT
S53	3.1	25.8	-6.9	-	-	-	840.86	1206.91	105.00	8"Ø SCH. 20 ALUM. PIPE	(1) 7/8"Ø ADHESIVE ANCHOR BOLT WITH 17.5" EMBEDMENT
S54	4.1	30.7	-8.4	-	-	-	858.98	1182.75	105.00	8"Ø SCH. 20 ALUM. PIPE	(1) 7/8"Ø ADHESIVE ANCHOR BOLT WITH 17.5" EMBEDMENT
S55	3.1	24.5	-6.5	-	-	-	875.63	1139.24	105.00	8"Ø SCH. 20 ALUM. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S56	3.1	24.6	-6.6	-	-	-	883.57	1117.51	105.00	8"Ø SCH. 20 ALUM. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S57	1.9	18.2	-4.2	-	-	-	915.58	1060.13	105.00	8"Ø SCH. 20 ALUM. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S58	2.7	23.2	-5.9	-	-	-	924.93	1038.19	105.00	8"Ø SCH. 20 ALUM. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S59	2.6	27.3	-5.9	-	-	-	934.21	1016.26	105.00	8"Ø SCH. 20 ALUM. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S60	2.6	25.9	-6.8	-	-	-	960.62	979.76	105.00	8"Ø SCH. 20 ALUM. PIPE	(1) 7/8"Ø ADHESIVE ANCHOR BOLT WITH 17.5" EMBEDMENT
S61	2.0	17.0	-7.1	-	-	-	973.14	961.02	105.00	8"Ø SCH. 20 ALUM. PIPE	(1) 7/8"Ø ADHESIVE ANCHOR BOLT WITH 17.5" EMBEDMENT
S62	1.6	8.5	-6.3	-	-	-	894.10	1506.75	104.50	8"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S63	1.6	8.6	-6.6	-	-	-	875.61	1292.88	104.50	8"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S64	1.6	9.2	-7.1	-	-	-	857.12	1279.01	100.00	8"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S65	1.6	12.6	-13.1	±6.9	±11.9	±11.3	838.63	1265.15	100.00	8"Ø SCH. 10 S.S. PIPE	(3) 7/8"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S66	1.6	12.0	-6.4	-	-	-	820.28	1251.34	100.00	8"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S67	1.6	12.5	-13.3	±6.9	±11.9	±11.3	801.78	1237.48	100.00	8"Ø SCH. 10 S.S. PIPE	(3) 7/8"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S68	1.6	15.4	-5.7	-	-	-	783.27	1283.62	100.00	8"Ø SCH. 10 S.S. PIPE	(1) 3/4"Ø ADHESIVE ANCHOR BOLT WITH 15" EMBEDMENT
S69	0.2	2.0	-2.0	-	-	-	921.20	1327.06	106.00	E-728 ALUM. I-BEAM	(2) 5/8"Ø ADHESIVE ANCHOR BOLTS WITH 10" EMBEDMENT
S70	2.0	13.7	-7.9	-	-	-	935.37	1307.58	106.00	E-728 ALUM. I-BEAM	(2) 3/4"Ø ADHESIVE ANCHOR BOLTS WITH 15" EMBEDMENT
S71	1.0	5.8	-4.2	-	-	-	911.58	1319.86	106.00	E-728 ALUM. I-BEAM	(2) 5/8"Ø ADHESIVE ANCHOR BOLTS WITH 10" EMBEDMENT
S72	0.7	13.7	-2.7	-	-	-	761.50	1214.12	106.00	E-728 ALUM. I-BEAM	(2) 5/8"Ø ADHESIVE ANCHOR BOLTS WITH 10" EMBEDMENT
S73	0.2	2.0	-2.0	-	-	-	1000.94	963.29	106.00	E-728 ALUM. I-BEAM	(2) 5/8"Ø ADHESIVE ANCHOR BOLTS WITH 10" EMBEDMENT
S74	0.7	4.4	-6.6	±7.5	±8.7	±12.9	993.14	961.77	106.00	E-728 ALUM. I-BEAM	(4) 7/8"Ø ADHESIVE ANCHOR BOLTS WITH 15" EMBEDMENT
S75	0.2	2.0	-5.4	-	±8.7	-	980.04	954.97	106.00	E-728 ALUM. I-BEAM	(2) 3/4"Ø ADHESIVE ANCHOR BOLTS WITH 15" EMBEDMENT
S76	0.6	4.7	-2.0	-	-	-	963.47	943.36	106.00	E-728 ALUM. I-BEAM	(2) 5/8"Ø ADHESIVE ANCHOR BOLTS WITH 10" EMBEDMENT
S77	0.5	2.0	-2.0	-	-	-	953.36	936.24	106.00	E-728 ALUM. I-BEAM	(2) 5/8"Ø ADHESIVE ANCHOR BOLTS WITH 10" EMBEDMENT
S78	0.3	-	-	-	-	-	908.34	1324.22	104.50	E-728 ALUM. I-BEAM	(2) 1/2"Ø WEDGE ANCHOR BOLTS WITH 3" EMBEDMENT
S79	0.3	-	-	-	-	-	890.86	1311.12	106.00	E-728 ALUM. I-BEAM	(2) 1/2"Ø WEDGE ANCHOR BOLTS WITH 3" EMBEDMENT
S80	0.3	-	-	-	-	-	872.36	1297.25	106.00	E-728 ALUM. I-BEAM	(2) 1/2"Ø WEDGE ANCHOR BOLTS WITH 3" EMBEDMENT
S81	0.3	-	-	-	-	-	853.87	1283.38	106.00	E-728 ALUM. I-BEAM	(2) 1/2"Ø WEDGE ANCHOR BOLTS WITH 3" EMBEDMENT
S82	0.3	-	-	-	-	-	835.38	1269.51	106.00	E-728 ALUM. I-BEAM	(2) 1/2"Ø WEDGE ANCHOR BOLTS WITH 3" EMBEDMENT
S83	0.3	-	-	-	-	-	817.02	1255.70	106.00	E-728 ALUM. I-BEAM	(2) 1/2"Ø WEDGE ANCHOR BOLTS WITH 3" EMBEDMENT
S84	0.3	-	-	-	-	-	798.51	1241.84	106.00	E-728 ALUM. I-BEAM	(2) 1/2"Ø WEDGE ANCHOR BOLTS WITH 3" EMBEDMENT
S85	0.3	-	-	-	-	-	780.01	1227.98	106.00	E-728 ALUM. I-BEAM	(2) 1/2"Ø WEDGE ANCHOR BOLTS WITH 3" EMBEDMENT
S86	0.3	-	-	-	-	-	752.03	1207.02	106.00	E-728 ALUM. I-BEAM	(2) 1/2"Ø WEDGE ANCHOR BOLTS WITH 3" EMBEDMENT

NOTES:

- 1: ABOVE HORIZONTAL REACTIONS IN PLANE OF VERTICAL WALL BRACING.
- 2: ALL COLUMNS TO HAVE A HORIZONTAL REACTION IN ANY DIRECTION OF UP TO 6% OF VERTICAL REACTION.
- 3: COLUMNS AT S78 THROUGH S85 TO HAVE HORIZONTAL WIND REACTION PERPENDICULAR TO WALL OF UP TO 1.5 KIPS.
- 4: ABOVE POSITION ORIGIN TRANSPOSED 11,772,000' IN "X" AND 3,722,000' IN "Y" FROM CUSTOMER SURVEY.
- 5: ALL ADHESIVE ANCHORS TO BE HILTI HIT-RE 500-SD WITH 316 S.S. THREADED RODS.
- 6: ALL WEDGE ANCHORS TO BE HILTI KWIK BOLT TZ (304 S.S.).
- 7: SPECIAL INSPECTION REQUIRED DURING INSTALLATION OF WEDGE AND ADHESIVE ANCHORS PER ESR-1917 AND ESR-2322.
- 8: SEE DRAWING D-150 FOR COLUMN LAYOUT.



879 WEST 190TH STREET
GARDENA, CALIF. 90248
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SOUTH BASIN COLUMN INFORMATION

FINISHED WATER BASIN COVER PROJECT
RICHMOND, VA

DRAWING NO. D-152
REVISION 0
CUST. CONTR. NO.

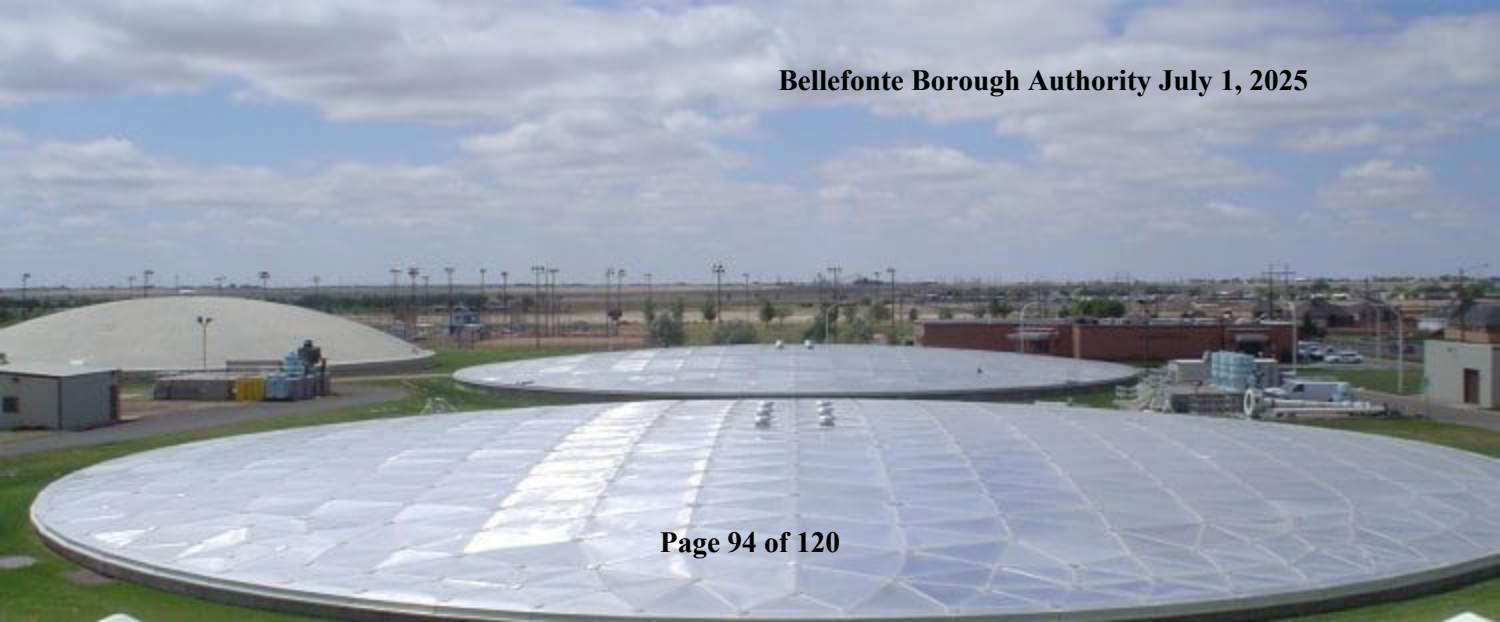
CUSTOMER

CITY OF RICHMOND

0 12/03/10 RWR DAB 100% PRELIMINARY
REV. DATE: DRWN BY CHKD BY DESCRIPTION



Bellefonte Borough Authority July 1, 2025



WATER AGREEMENT

THIS WATER AGREEMENT (the "Agreement") is made and entered into this 8th day of April, 2019 (the "Effective Date"), by and between **BELLEFONTE BOROUGH AUTHORITY**, a Pennsylvania municipal authority ("Authority"), and **NIAGARA BOTTLING, LLC**, a Delaware limited liability company ("Niagara").

BACKGROUND

A. The Authority is the owner of a water storage, transmission and distribution system (the "System") serving customers in the Borough of Bellefonte (the "Borough"), Spring Township, Benner Township, and College Township, Centre County, Pennsylvania.

B. The System presently has an excess of approximately two (2) million GPD of potable spring water which, subject to the terms and conditions of this Agreement, Authority is willing to make available to Niagara, provided, that such excess is subject to change from time to time and is subject to the discretion of the Authority regarding the determination of the existence of any excess or deficiency in water and the priority allocation and/or distribution of such water.

C. Niagara desires to secure a source of potable spring water for use in its bottled water business, subject to the terms and conditions set forth herein.

NOW, THEREFORE, in consideration of the foregoing recitals, and intending to be legally bound hereby, the parties agree as follows:

ARTICLE I

SALE OF WATER

Section 1.01. Authority agrees to sell to Niagara on a bulk basis, a minimum of 186,000 gallons of potable spring water per day subject to, and contingent upon, the terms and conditions set forth herein. Nothing herein is intended to bind Niagara to purchase any minimum quantity of potable spring water from Authority. Notwithstanding the foregoing, Niagara shall not withdraw and/or purchase more than 200,000 gallons of water in any day during the term of this Agreement without the express prior written consent of the Authority. It is anticipated that Niagara and Authority shall enter into a separate Agreement or amend this Agreement to provide for Niagara's right to withdraw water on terms separate from those existing in this Agreement, which may include construction of another filling station to meet Niagara's needs for additional water in excess of 200,000 gallons per day. Niagara acknowledges that the Authority reserves the right and discretion to limit the distribution of water to Niagara to the above-stated maximum gallons per day under any circumstances. Niagara further acknowledges that the Authority has the discretion to determine whether there is sufficient excess water to comply with the terms of this Agreement at any given time and to prioritize the allocation and/or distribution of water as the Authority reasonably deems to be in the best interest of its customers and the public. The Authority agrees to provide written notice to

Niagara of any changes in such excess that substantially affects the Authority's ability to make available a minimum of 186,000 gallons of potable spring water a day to Niagara.

Section 1.02. As further provided below in this Agreement, it is expressly understood that Authority makes no representations, warranties or guarantees as to the quality of the water supplied hereunder or its availability. The parties agree that the use of the term "potable" throughout this Agreement, and this Agreement itself, shall not impose, place or create any additional obligations, responsibilities or liabilities on or against the Authority, including, but not limited to, any responsibilities for compliance with any federal, state or local laws, regulations, rules, ordinances or orders, including any laws or regulations relating to the environment; provided, however that Niagara is relying upon the fact that the Authority provides the spring water to the public for human consumption. Notwithstanding anything to the contrary, Authority shall notify Niagara as promptly as possible of any emergency and other conditions of which the Authority has actual knowledge, which may directly or indirectly (i) prevent the Authority from selling the potable spring water to Niagara or any other customer as provided hereunder, or (ii) substantially affect the quantity or quality of the potable spring water supplied to Niagara hereunder or any other customer, including any notice of potential contamination in the water to the extent Authority has knowledge of same. In the event Authority has knowledge of contamination in the water to be supplied under this Agreement, Authority will agree to withdraw and provide a sample of the water to Niagara for testing at a facility of Niagara's choosing, provided that the testing shall be done at Niagara's sole cost and expense. It is expressly understood and agreed that

Authority shall have no liability for any such contamination, other than its notification obligation described above.

Section 1.03. Niagara acknowledges that the supply of potable spring water hereunder is subject to the needs and requirements of the inhabitants of the Borough, any prior existing contracts and agreements involving the supply of potable spring water from the Authority's System, and the present customers of the Authority's System located within and beyond the political boundaries of the Borough. It is also subject to the continuing production of the Authority's potable spring water from the source known as the "Big Spring" at a rate that allows all of the potable spring water use demands of the Authority's present customers to be met before potable spring water can be made available to Niagara. The Authority agrees to act in good faith and shall not arbitrarily reduce or cause to be reduced the quantity of potable spring water from the "Big Spring". The Authority therefore retains the right to prioritize, curtail or temporarily cease the delivery of potable spring water hereunder in the event such water use demands of the existing customers are unable to be met due to unforeseen circumstances, drought restrictions, emergencies, or other operational conditions outside of the reasonable control of the Authority that require the Authority to suspend or limit bulk water sales. The Authority will provide prompt written notice to Niagara if it curtails or temporarily ceases the delivery of potable spring water hereunder. Such written notice will be provided to Niagara by the Authority within five (5) business days of such curtailment or cessation hereunder.

Section 1.04. Niagara agrees that the supply of potable spring water from the Authority's System and this Agreement shall at all times be subject to and in strict

compliance with the rates, rules and regulations of the Authority and any terms and conditions of any permits issued to the Authority by the Pennsylvania Department of Environmental Protection.

Section 1.05. All bottled water from the Big Spring packaged for sale to the public shall prominently display on its label information which identifies the source of the potable spring water as Bellefonte, PA.

Section 1.06. Authority agrees to operate and provide Niagara, its employees, agents, and its third-party potable spring water carriers with access to Filling Station at 615 Pleasant View Blvd., Bellefonte, Pennsylvania (for purposes of this Agreement, the "Filling Station") twenty-four hours a day, seven days a week, three hundred and sixty-five days a year; provided, however, Niagara and its employees, agents and representatives shall reasonably cooperate with the Authority with regard to any reasonable requirements of the Authority concerning withdrawal of water at the Authority's Filling Station. Niagara will submit in writing to Authority a schedule of the weekly dates and times Niagara intends to access the Filling Station; provided, that Niagara may change any particular date and time for access upon no less than twenty-four (24) hour's advance written notice to the Authority.

Section 1.07. AUTHORITY DOES NOT WARRANT THE QUALITY, MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE OF ANY WATER CONTRACTED FOR UNDER THIS AGREEMENT, WHETHER OR NOT ACTUALLY SOLD TO NIAGARA UNDER THIS AGREEMENT. NIAGARA ACKNOWLEDGES AND AGREES THAT BEFORE ENTERING INTO THIS AGREEMENT, IT HAS EXAMINED THE WATER SOURCE, AND THE MEANS OF DELIVERY OF THE QUANTITIES OF

WATER WHICH ARE CONTRACTED FOR UNDER THIS AGREEMENT, AND THAT AS OF THE DATE OF SUCH EXAMINATION IT HAS FOUND ALL SUCH ITEMS ADEQUATE AND SATISFACTORY FOR NIAGARA'S PURPOSES. ONCE THE WATER HAS BEEN WITHDRAWN BY NIAGARA, NIAGARA SHALL BE SOLELY RESPONSIBLE AND LIABLE FOR THE QUALITY AND USEFULNESS FOR ANY PARTICULAR PURPOSE, INCLUDING HUMAN CONSUMPTION, OF ALL WATER EXPORTED BY, TRANSPORTED BY, USED BY, OR SOLD BY, OR DELIVERED BY NIAGARA. IN NO EVENT WILL AUTHORITY OR BOROUGH BE LIABLE TO NIAGARA OR ANY OTHER THIRD PARTY, INCLUDING ANY CONSUMER OF WATER SOLD BY NIAGARA FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OR FOR ANY OTHER DAMAGES TO THE PROPERTY OR PERSON.

Section 1.08. The Authority shall permit Niagara access to the Authority's Filling Station to implement, at Niagara's sole cost and expense, weekly microbiological sampling that includes coliform testing, in substantial accordance with the sampling procedure set forth in Exhibit A.

Section 1.09. The Authority shall operate its facilities (including springs, boreholes/wells, water treatment equipment, meters/measurement devices, record keeping, storage tanks, hoses, pumps, Filling Station and other related on-site infrastructure) in accordance with all applicable state and federal requirements (including the requirements of the bioterrorism act). The Authority shall maintain the facilities (including ingress/egress) in a manner sufficient to allow Niagara and Niagara's water haulers access during the operating & delivery hours described herein. Furthermore, the facilities shall be clean and sanitary. At no time shall the Authority store/use chemicals

and/or hazardous substances in or around the facilities that could in any manner pose a contaminant threat to the land or water resources of said facilities.

ARTICLE II

TERM

Section 2.01. The initial term of this Agreement shall commence upon the Effective Date and shall continue for five (5) years thereafter (the "Initial Term"). This Agreement will thereafter automatically renew on an annual basis (the "Renewal Term") unless either party provides written notification of intent not to renew at least twelve (12) months in advance or in the event the Agreement is terminated in accordance with any termination provisions hereunder.

ARTICLE III

RATES AND PAYMENTS

Section 3.01. Niagara shall pay the volume metric rate of **\$\$0.00835 per gallon of potable spring water** provided to Niagara under this Agreement. Except as may otherwise be required by law, no additional fees shall apply or be charged to Niagara at any time, including, but not limited to: connection fees, impact fees, and capacity fees, and no water rights need to be purchased, and there shall be no one-time upfront fees. This rate may be subject to increase based on any uniform increase to the Authority's water rates, as adopted by resolution of the Authority at a public meeting. The Authority shall notify Niagara in writing of any increase in the rate to be paid for the potable spring water under this Agreement. In addition, Niagara shall pay any other costs incurred by either Niagara regarding the sale of finished goods produced by Niagara, it being

specifically understood and agreed that the Authority shall not be responsible for any cost or expense incurred in the sale of finished goods produced by Niagara. If Niagara does not agree to pay the increased potable spring water rate as identified above, Niagara may terminate this Agreement by at least thirty (30) days advance written notice of such termination to Authority as provided in Section 5.

Section 3.02. Niagara shall be invoiced for all potable spring water supplied under this Agreement on a monthly basis. All payments shall be made within thirty (30) days of the date of invoice.

Section 3.03. In the event Niagara shall fail to pay for the water as required hereunder within thirty (30) days after the date of any invoice, the Authority shall give written notice of nonpayment to Niagara ("Notice of Nonpayment"). If Niagara fails to cure such nonpayment in full within ten (10) days after Authority gives written Notice of Nonpayment to Niagara (the "Payment Cure Period"), then Authority shall have the right, at its option, to pursue any and all remedies available at law or equity against Niagara, including terminating this Agreement upon thirty (30) days written notice to Niagara and/or bringing an action at law for recovery of any outstanding fees owed to the Authority. In the event of timely cure by Niagara, Niagara shall not be deemed to be in breach of this Agreement and not charged a late fee of any kind.

Section 3.04. All withdrawals of water by Niagara shall occur at the Filling Station unless otherwise mutually agreed upon by the parties in writing. The Authority shall make potable spring water available for distribution at the Filling Station.

Section 3.05. Niagara represents and warrants that it shall use the water supplied hereunder in connection with its bottled water and beverage business and for no

other purpose.

ARTICLE IV

INDEMNIFICATION

Section 4.01. Niagara agrees to release, indemnify, protect, defend and hold harmless Authority, its members, directors, officers, employees, agents, and representatives, and each of the aforementioned parties' respective successors, assigns, heirs, legal representatives, officers, directors, shareholders, employees, invitees and agents (collectively referred to herein as "Authority Indemnitees") for, from and against all liabilities, claims, damages, losses, liens, fines, penalties, costs, causes of action, suits, judgments and expenses (including court costs, reasonable attorneys' fees, and costs of investigation) of any nature, kind or description of any person or entity, to the extent directly or indirectly arising out of, caused by, or resulting from (in whole or in part), any grossly negligent act or omission or willful misconduct of Niagara.

Section 4.02. Authority agrees to release, indemnify, protect, defend and hold harmless Niagara, its owners, directors, officers, employees, agents, and representatives, and each of the aforementioned parties' respective successors, assigns, heirs, legal representatives, officers, directors, shareholders, employees, invitees and agents (collectively referred to herein as "Niagara Indemnitees") for, from and against all liabilities, claims, damages, losses, liens, fines, penalties, costs, causes of action, suits, judgments and expenses (including court costs, reasonable attorneys' fees, and costs of investigation) of any nature, kind or description of any person or entity, to the extent directly or indirectly arising out of, caused by, or resulting from (in whole or in part), any grossly negligent or intentional act or omission or willful misconduct of

Authority.

Section 4.03. Notwithstanding anything in Section 4.02 or elsewhere in this Agreement to the contrary, it is expressly understood that neither the Authority nor its directors, members, officers, employees, agents or representatives, waive any official, sovereign or governmental immunity to which they may be entitled under Pennsylvania or federal law by assuming any obligations under this Agreement, and any indemnification obligation or undertaking hereunder shall not establish any liability to the extent the Authority has immunity under existing Pennsylvania or federal law.

Section 4.04. The Authority's obligations under this Agreement and the Authority's rights in and to the potable spring water and its management end when the potable spring water is distributed to Niagara at the Filling Station.

Section 4.05. The Authority recognizes that Niagara is relying upon the enforceability of this Agreement in making an investment with the Authority. The Authority acknowledges that but-for the enforceability of this Agreement, Niagara would not be making such an investment with the Authority. By entering into this Agreement, however, Authority desires to provide certainty with regard to its total maximum liability for monetary damages arising out of this Agreement or the water to be sold to Niagara hereunder, to the extent Authority would be found by a court of law or other tribunal to be liable for the same. Accordingly, Niagara and the Authority expressly agree that in no event will the Authority's or Niagara's aggregate liability to one another (including any liability for indemnification under this Article 4) in any matter arising from, relating to or connected with this Agreement exceed the sum of Ten Thousand Dollars (\$10,000.00); provided, however, however, the foregoing limitation on Niagara's liability for monetary

damages shall not apply to any amount(s) owed by Niagara for water purchased pursuant to section 1.01 of this Agreement. Furthermore, under no circumstances will either party be liable to the other for special, indirect, incidental, punitive or consequential damages for any matter arising from, relating to or connected with this Agreement, and each party expressly waives and releases all claims against the other party and its members, directors, officers, employees, agents, and representatives for the same.

ARTICLE V

TERMINATION

Section 5.01. The Authority may terminate this Agreement upon thirty (30) days prior written notice to Niagara at any time during the Term upon the occurrence of any of the following:

- (a) A material breach by Niagara of any of the terms and conditions of this Agreement; and/or
- (b) The failure of Niagara to pay any payment when due that remains unpaid after the expiration of the Payment Cure Period.

Section 5.02. Niagara may terminate this Agreement upon thirty (30) days prior written notice to the Authority at any time during the Term upon the occurrence of any of the following:

- (a) A material breach by the Authority of any of the terms and conditions Agreement; and/or
- (b) Failure to supply the water hereunder.

Section 5:03. The Authority and Niagara otherwise expressly reserve all other rights and remedies at law or in equity.

ARTICLE VI

EXCUSES FOR NON-PERFORMANCE

Section 6.01. The failure of a party to perform any obligation under this Agreement due to an uncontrollable circumstance shall operate as an excuse to performance and will not constitute a breach of any obligation. An “uncontrollable circumstance” means by act, event or condition that has had, or may reasonably be expected to have, a direct material adverse effect on any party’s performance hereunder if such act, event or condition is beyond the reasonable control of the party and the party relying thereon has justification for not performing an obligation or complying with any condition required of such party under this Agreement because of such act, event or condition. Such acts or events include, but shall not be limited to: (a) Acts of God, droughts, hurricanes, tornadoes, epidemic, landslides, lightning, earthquake, flood, fire or explosion or similar occurrences; or an act of terrorism, war, blockade, insurrection, riot, general unrest, or restraint of government and people, civil disturbance of similar occurrence; (b) the order, final action, injunction and/or judgment of any federal, state or local court, administrative agency or governmental body which has jurisdiction over the performance of the parties' obligation to this Agreement, or any adverse determination of any such governmental body which would preclude a party from fulfilling its obligations hereunder; or (c) a change in the law which includes the enactment, adoption, promulgation, modification or repeal after the date of this Agreement, of any federal, state, county or other local law, ordinance, code, rule, or regulation or other similar

regulation or other similar legislation which establishes obligation on responsibility affecting the performance under this Agreement which are more burdensome than those in effect on the date of this Agreement.

Section 6.02. The Authority will treat any major interruptions to the supply of the potable spring water as an urgent matter and in accordance with its normal business operations. The Authority will reasonably attempt to restore, or cause to be restored, normal service to Niagara. The Authority will take all such actions as it would to any other of the Authority's customers, subject to the Authority's reasonable discretion to prioritize allocation and/or distribution of the water as the Authority deems to be in the best interest of its customers and the public.

ARTICLE VII

MISCELLANEOUS

Section 7.01. This Agreement shall not be assigned by any party without the prior written consent of the other parties hereto, not to be unreasonably withheld or delayed.

Section 7.02. This Agreement shall not be recorded in the Office of Recorder of Deeds or any other office of a place of public record.

Section 7.03. Nothing herein shall be deemed to create the relationship of the parties as joint venturers, partners, agents, or representatives of the other.

Section 7.04. This Agreement is made entirely for the benefit of the Authority, the Borough (to the extent any beneficial right is conferred upon it hereunder), and Niagara and their permitted assigns and successors in interest and no third person or party not enumerated here shall have any rights granted hereunder.

Section 7.05. Nothing in this Agreement shall be construed to require the

Authority to extend water service to any individual or entity other than Niagara.

Section 7.06. The Section headings used in this Agreement are for convenience only and shall not affect the construction of any terms of this Agreement.

Section 7.07. None of the provisions of this Agreement shall be considered waived by either party except when such waiver is given in writing. The failure of either party to insist in any instance on strict performance of any of the provisions of this Agreement shall not be construed as a waiver of any such provision or the relinquishment of any present or future rights hereunder.

Section 7.08. In the event that any provisions of this Agreement shall, for any reason, be determined to be invalid, illegal or unenforceable in any respect, all other provisions of this Agreement shall be binding on the parties, and shall remain in full force and effect.

Section 7.09. This Agreement shall be binding upon and, to the extent permitted in this Agreement, shall inure to the benefit of the parties and their respective successors and assigns.

Section 7.10. The parties expressly agree that this Agreement shall be deemed to have been made in and shall be performed in Centre County, Pennsylvania, and that all questions concerning the validity, interpretation, or performance of any terms or provisions of this Agreement, or of any rights or obligations of the parties under this Agreement, shall be governed by and resolved in accordance with the laws of the Commonwealth of Pennsylvania.

Section 7.11. This Agreement may be executed in one or more counterparts, each of which shall constitute an original, but all of which, when taken together, shall

constitute only one legal document. This Agreement shall become effective when copies hereof (when taken together) shall bear the signature of all parties hereto. It shall not be necessary in the making proof of this Agreement to produce or account for more than one such counterpart.

Section 7.12. All notices or other communications required or permitted hereunder will be in writing and deemed given if emailed and (a) delivered personally, or (b) (i) deposited in U.S. mail, registered or certified mail, postage prepaid, return receipt requested, or (ii) delivered to a national express mail service which requires a receipt from the recipient and, in either case (i) or (ii), a receipt is obtained; and (c) in either case (a) or (b), it is addressed as follows:

If to the Authority:

Belleville Borough Authority
236 West Lamb Street
Belleville, PA 16823
Attention: Ralph W. Stewart
rstewart@bellevillepa.gov

If to Niagara:

Niagara Bottling, LLC
2560 E. Philadelphia St.
Ontario, CA 91761
Attention: Legal Department
jgranger@niagarawater.com

With a copy to:
Niagara Bottling, LLC
2560 E. Philadelphia St.
Ontario, CA 91761
Attention: Procurement Department
echen@niagarawater.com

Section 7.13. This Agreement reflects the entire agreement and understanding among the parties and there are no other covenants or agreements between and among the parties that are not herein contained.

Section 7.14. This Agreement shall be authorized and duly approved by authorized resolution adopted by the Authority.

Section 7.15. Time shall be of the essence of the performance of this Agreement.

Section 7.16. All disputes arising between the parties in connection with this Agreement, which cannot first be settled amicably and satisfactorily between the parties, shall be finally settled under the rules of arbitration of the American Arbitration Association, except as may be otherwise specifically provided in this section. The party requesting arbitration shall give a written demand of arbitration to the other party by permissible notice hereunder. The demand shall set forth a statement of the nature of the dispute, the amount involved and the remedies sought. No later than thirty (30) days after the demand for arbitration is served the parties shall jointly select a mutually agreeable arbitrator having a place of business in Centre County, Pennsylvania. If the parties cannot agree upon a single arbitrator within such time period, each party shall, not later than forty-five (45) days after the demand of arbitration has been served, select an individual to sit upon a panel of three arbitrators and notify the other party in writing of such individual. Thereafter, the two appointed arbitrators shall promptly select a third arbitrator to sit on the panel. Unless extended by the parties in writing, the hearing shall commence no later than one hundred twenty (120) days after all arbitrators shall have been appointed. The law of the Commonwealth of Pennsylvania shall govern all

questions of procedure in cases where the aforementioned rules offer no guidance. Any arbitration award shall be based on and accompanied by findings of fact and conclusions of law and shall be conclusive as to the facts so found. The arbitration shall be conducted in Centre County, Pennsylvania. The arbitration board's award may include compensatory damages against either party. The parties agree to accept the decision of the board of arbitrators, and judgment upon any award rendered by the board may be entered in a court of competent jurisdiction; provided, however, nothing in this section shall restrict the right of either party to apply to a court of competent jurisdiction for such equitable relief as is necessary to preserve and enforce their rights under this Agreement.

Section 7.17. Confidentiality. The parties herein acknowledge and understand that they may come into possession of information or data which constitute trade secrets, know-how, confidential information or are otherwise considered to be secrets of the other party (hereinafter "Confidential Information"). In consideration of the receipt of such Confidential Information ("Receiving Party") from the disclosing party ("Disclosing Party"), the Receiving Party agrees to maintain such Confidential Information in the utmost of confidence, use such Confidential Information solely in connection with the intended business relationship established hereunder and take all measures reasonable and appropriate to protect such Confidential Information. The Receiving Party agrees to maintain the Confidential Information in confidence and shall not, nor shall it permit its employees, agents, and/or subcontractors to sell, transfer, publish, disclose, display or otherwise make accessible the documentation, or any copies thereof, or the services, in whole or in part, to any third party, or use the documentation or services for its own benefit or the benefit of others. Each Receiving Party recognizes and acknowledges that

any breach or threatened breach of this Agreement may cause irreparable harm for which monetary damages may be inadequate. As such, each Receiving Party agrees, therefore, that any Disclosing Party shall be entitled to an injunction or other equitable relief (with bond or other security) to restrain a Receiving Party from such breach or threatened breach. Furthermore, should a Receiving Party breach this Agreement and disclose the Disclosing Party's Confidential Information to a third party who incorporates the Confidential Information into its products and/or services, such Receiving Party understands and acknowledges that the Disclosing Party's remedies shall be broad and include, but not be limited to, seek an injunction or other equitable relief (with bond or other security), recovery of monetary damages from the Receiving Party for the breach or threatened breach of this Agreement and/or the disgorgement of any and all profits from any third party or parties who received the Disclosing Party's Confidential Information and any other remedy at law or in equity from any breach or threatened breach of this Agreement in order to place the Disclosing Party in the position it would have been but for the breach or threatened breach of this Agreement.

Section 7.18. Notwithstanding Section 7.17 above, Niagara acknowledges that the Authority is a local agency subject to the Pennsylvania Right-To-Know Law, 65 P.S. § 67.101 et seq. (the "RTK Law"). The Authority acknowledges that information provided by Niagara may contain proprietary, financial or other data, the disclosure of which could cause substantial injury to Niagara's business. Niagara shall identify information considered to be confidential and provide a statement that such information is considered confidential by Niagara and disclosure of such information would cause substantial injury to Niagara. In the event a request for such information is received by

the Authority, the Authority will advise Niagara of the request and ask Niagara to submit a detailed statement indicating Niagara's legal basis for treating the information as confidential or otherwise seeking exemption from disclosure under federal, state or local law. The Authority will exercise care in applying this procedure, but shall not be held liable for any damage or injury that may result from any disclosure that may occur in accordance with the RTK Law.

Section 7.19. All covenants, conditions, warranties, uncompleted obligations and indemnifications contained in this Agreement, which may involve performance subsequent to any termination of this Agreement, or which cannot be ascertained or fully performed until after termination of this Agreement shall survive.

Section 7.20. This document shall be deemed to have been mutually drafted by the parties hereto. Any ambiguity in the interpretation of this Agreement shall not be construed or interpreted against either party, as drafter.

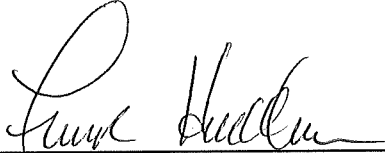
SIGNATURES FOLLOW ON NEXT PAGE

IN WITNESS WHEREOF, the parties have executed this Agreement as of the date and year first above written.

ATTEST:

BELLEFONTE BOROUGH AUTHORITY

By: 

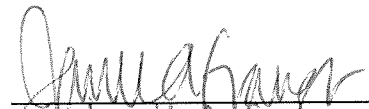
By: 
Frank Halderman, Vice President

Date Signed: April 3rd, 2019

ATTEST:

NIAGARA BOTTLING, LLC

By: 

By: 
Name: Janella A. Granger
Title: Director of Legal Affairs

Date Signed: 4/8/2019

Procedure for Microbiological Sampling

Version 04

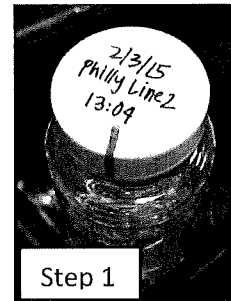
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**SUPPLIES:**

- Alcohol/Chlorine wipes or a detergent disinfectant (i.e. BacDown)
- Isopropyl Alcohol
- Cooler with ice packs
- Disposable gloves
- Sterile sample containers with sodium thiosulfate as necessary
- Water resistant marker
- Chain-of-custody form, and corresponding label

REMARKS:

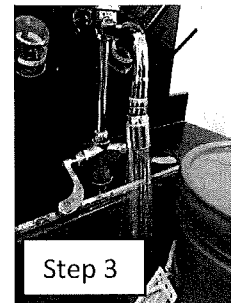
1. Do not open the sample container until just before taking the water sample.
2. At no time should the sampler's fingers come in contact with the inside of the sample container.
3. Collect samples for microbiological examination in sterile containers. If necessary, ensure the sample container contains sodium thiosulfate (for chlorinated samples).
4. If sampling open tanks, rivers, reservoirs or other sources that require dipping the container into the source, sterile bottles are required as sample containers.
5. The time between collection and the start of analysis **shall not exceed 24 hours**. Therefore sampling should take place immediately prior to shipping.
6. Use a new pair of rubber gloves for each sample.



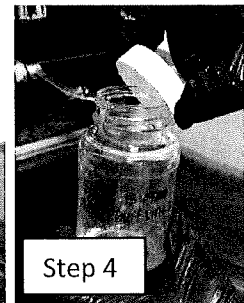
Step 1



Step 2



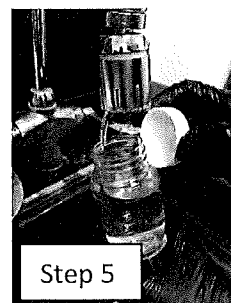
Step 3



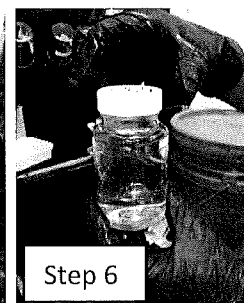
Step 4

PROCEDURE:**Preparation**

1. Using a marker record the following information on the label provided – date, sample location and sample time. Affix the label to the sample bottle. NOTE: An example of the label can be found on the last page of this document.
2. On the chain-of-custody form, record the date and time the sample was taken, the sampler's name, and the date the sample was consigned for shipment. **All fields highlighted in yellow is to be completed by the sampler.**
3. Proceed to sample area.
4. Before opening sample container, put on disposable gloves.

Potable Water & Wastewater

Step 5



Step 6

Procedure for Microbiological Sampling

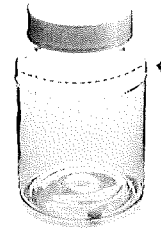
Version 04

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Distribution System

1. If the water sample is to be taken from a distribution system tap without attachments, select a tap that is supplying water from a service pipe directly connected with the main, and is not, for example served from a cistern or storage tank.
2. Disinfect the tap with an alcohol/chlorine wipe or the detergent disinfectant (i.e. BacDown).
3. Open tap fully and let water run to waste for at least 3-5 minutes or for a time sufficient enough to permit flushing of the entire service line whichever is longer.
4. Sanitize gloves with isopropyl alcohol, and allow 30 seconds for the alcohol to dry.
5. Slowly fill the container to **a level above the line** as indicated in the graphic shown. Do not let the container overflow if sodium thiosulfate is used.



Rivers, Streams, Lakes, Reservoirs, Springs or Shallow Wells

1. Grasp a bottle by its base and plunge into the water source with the neck facing down.
2. Turn the bottle until the neck is pointing slightly upward and the mouth is directed toward current (if any) and allow bottle to fill. After filling, remove bottle from water with the neck pointing up.
3. Tightly cap the bottle.

Transportation

1. Place the sample and the corresponding chain-of-custody form in the cooler and place a sufficient amount of gel ice packs to keep the sample cold during transport to the laboratory.
2. Transport the samples to the laboratory via **Next Day Priority Delivery**.
3. Samples should be shipped to the following address on Monday to Thursday:
Northeast Laboratory
227 China Road
Winslow, Maine 04901

Procedure for Microbiological Sampling

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CHAIN OF CUSTODY RECORD

INVOICE TO/SEND ORIGINAL REPORT TO: Compliance Designs 159 South Stark Highway Weare, New Hampshire 03281 Tel (603) 529-4977 Fax (603) 529-4988		CLIENT NAME TO APPEAR ON REPORT:	LAB USED: TURNAROUND TIME:	ORDER # PWS #:
PROJECT NAME:		PROJECT #:	ANALYSIS REQUIRED	
SAMPLE NUMBER	DATE & TIME OF SAMPLE COLLECTION	SAMPLE DESCRIPTION AND PRODUCTION CODE	NUMBER OF CONTAINERS	
		Sample description (ie. Source, product, etc.)	1	
SAMPLER'S SIGNATURE:		PLEASE PRINT BELOW:	COMPLIANCE CRITERIA:	
			50 State Compliance	
RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	NOTES TO LABORATORY

Procedure for Microbiological Sampling

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CHAIN OF CUSTODY RECORD

Client info. to Appear on Report:

Invoice and Report to:
Compliance Designs
159 Stark Highway
Weare NH 03281
(603) - 529-4977

Project: Weekly Bad.-F.P.s

Lab Used: NEL

TAT: STND

Analysis

Description*
* e.g., Municipal Source, Spring Finished Product,
Production Code: 020508 12:12 1 Liter L2

Provide production date and line info for product samples only.

Sample ID
Collection
Date/Time*
*Do not complete if lab will collect sample from finished product container

Source: _____

Product: _____

TCMF, ECMF, HPCDW

TCMF, ECMF, HPCDW

Date/Time: _____

Date/Time: _____

Relinquished By: _____

Received By: _____

Sampler: _____

Notes: _____

Procedure for Microbiological Sampling

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Compliance Designs
158 South Stark Highway
Weare NH 03281
(603) 529-4977

Analysis: TCMF, ECMF, HPCDW

Preservative: Sodium Thiosulfate

Sample #:

Description:

Date: / /

Time:

Sampler:

DAILY WATER WITHDRAWAL/INSTREAM FLOW REQUIREMENT REPORT			
BELLEFONTE BOROUGH		CENTRE	23A
NAME-PUBLIC WATER SUPPLY AGENCY		COUNTY	WA Permit No.
(814) 355-1501			313588
TELEPHONE NO.			SF Permit ID
Report for MONTH:		June	Matt Auman
Year:		2025	REPORT PREPARER NAME
Source ID	7939		Total
Name Day	Borough System Big Spring	Corning System Big Spring	
1	2,619,904	941,952	3,561,856
2	2,569,216	931,584	3,500,800
3	2,627,072	959,488	3,586,560
4	2,640,640	972,800	3,613,440
5	2,653,952	982,656	3,636,608
6	2,662,144	978,560	3,640,704
7	2,644,224	974,080	3,618,304
8	2,630,400	945,792	3,576,192
9	2,635,264	941,696	3,576,960
10	2,629,632	953,472	3,583,104
11	2,569,728	964,096	3,533,824
12	2,677,760	982,272	3,660,032
13	2,490,400	986,240	3,476,640
14	2,786,304	960,896	3,747,200
15	2,724,608	953,728	3,678,336
16	2,700,544	932,224	3,632,768
17	2,761,728	971,392	3,733,120
18	2,776,064	999,808	3,775,872
19	2,691,328	965,760	3,657,088
20	2,798,080	986,752	3,784,832
21	2,758,656	982,212	3,740,868
22	2,772,736	986,368	3,759,104
23	2,905,344	969,984	3,875,328
24	2,781,696	1,017,472	3,799,168
25	2,919,936	998,656	3,918,592
26	2,732,032	1,023,616	3,755,648
27	2,749,184	999,200	3,748,384
28	2,608,896	982,784	3,591,680
29	2,678,616	955,648	3,634,264
30	2,682,280	982,016	3,664,296
31			-
TOTAL	80,878,368		110,061,572
AVERAGE	2,695,946	972,773	3,550,373
MAXIMUM	2,919,936	1,023,616	3,918,592
MINIMUM	2,490,400	931,584	-