

Conceptual Review Agenda

Meetings hosted via Zoom Web Conferencing

Review Date

4/6/2023 11:15 AM

Project Name

Car Wash at 505 S Taft Hill
CDR230023

Applicant

Alan Jacob
847-852-0021
alan.j@carwashprodesigners.com

Planner: Clark Mapes

Engineer: Dave Betley

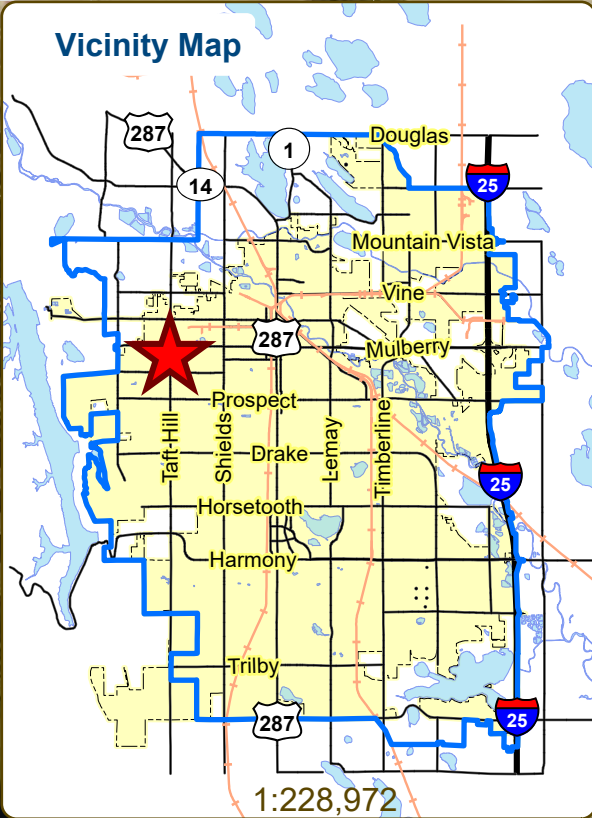
DRC: Tenae Beane

Description

This is a request to redevelop and expand an existing carwash at 505 Taft Hill Rd (parcels # 9716100018, 9716161001). Demo existing carwash building at 505 S Taft Hill and combine the parcel to the south and construct a new carwash facility on the property. Access is taken from S Taft Hill to the south. The site is directly west of S Taft Hill Rd and approximately 0.03 miles south of W Mulberry St. The property is within the Low Density Mixed-Use Neighborhood District (L-M-N) zone district and the project would be subject to Addition of Permitted Use (APU) Review.

Car Wash at 505 S Taft Hill Minor Vehicle Servicing (APU)

Vicinity Map



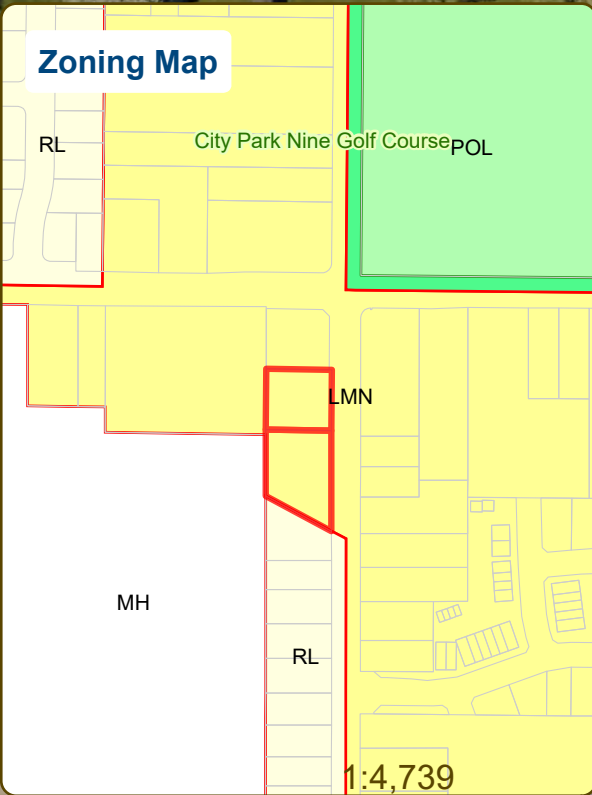
Aerial Site Map

W Mulberry St

S Taft Hill Rd

1:815

Zoning Map



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CONCEPTUAL REVIEW: APPLICATION

General Information

All proposed development projects begin with Conceptual Review. Anyone with a development idea can schedule a Conceptual Review meeting to get feedback on prospective development ideas. At this stage, the development idea does not need to be finalized or professionally presented. However, a sketch plan and this application must be submitted to City Staff prior to the Conceptual Review meeting. The more information you are able to provide, the better feedback you are likely to get from the meeting. Please be aware that any information submitted may be considered a public record, available for review by anyone who requests it, including the media. The applicant acknowledges that they are acting with the owner's consent.

Conceptual Reviews are scheduled on three Thursday mornings per month on a "first come, first served" basis and are a free service. One 45 meeting is allocated per applicant and only three conceptual reviews are done each Thursday morning. A completed application must be submitted to reserve a Conceptual Review time slot. Complete applications and sketch plans must be submitted to City Staff on Thursday, no later than end of day, two weeks prior to the meeting date. Application materials must be e-mailed to currentplanning@fcgov.com. If you do not have access to e-mail, other accommodations can be made upon request.

At Conceptual Review, you will meet with Staff from a number of City departments, such as Community Development and Neighborhood Services (Zoning, Current Planning, and Development Review Engineering), Light and Power, Stormwater, Water/Waste Water, Advance Planning (Long Range Planning and Transportation Planning) and Poudre Fire Authority. Comments are offered by staff to assist you in preparing the detailed components of the project application. There is no approval or denial of development proposals associated with Conceptual Review. At the meeting you will be presented with a letter from staff, summarizing comments on your proposal.

BOLDED ITEMS ARE REQUIRED *The more info provided, the more detailed your comments from staff will be.*

Contact Name(s) and Role(s) (Please identify whether Consultant or Owner, etc) _____

Alan Jacob, Car Wash Pro Designers (CONSULTANT)

Business Name (if applicable) 6400 N. Northwest Highway, Suite 4 Chicago, Illinois 60631

Your Mailing Address 6400 N. Northwest Highway, Suite 4 Chicago, Illinois 60631

Phone Number 8478520021 Email Address alan.j@carwashprodesigners.com

Site Address or Description (parcel # if no address) _____

505 & 525 South Taft Hill Road Fort Collins, Colorado

Description of Proposal (attach additional sheets if necessary) _____

To build a new express car wash facility

Proposed Use Car Wash (LMN Zone) Existing Use LMN Zone Car Wash (one parcel)

Total Building Square Footage 4900 S.F. Number of Stories 1 Lot Dimensions 0.91 Acres

Age of any Existing Structures Unknown

Info available on Larimer County's Website: http://www.co.larimer.co.us/assessor/query/search.cfm

If any structures are 50+ years old, good quality, color photos of all sides of the structure are required for conceptual.

Is your property in a Flood Plain? [] Yes [x] No If yes, then at what risk is it? NA

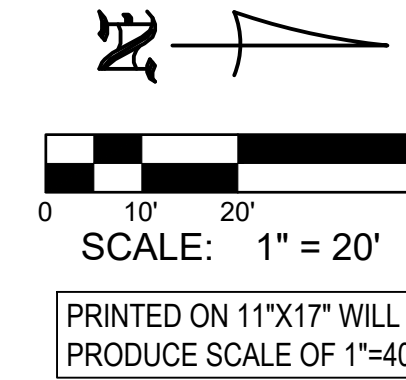
Info available on FC Maps: http://gisweb.fcgov.com/redirect/default.aspx?layerTheme=Floodplains.

Increase in Impervious Area 4900 S.F.

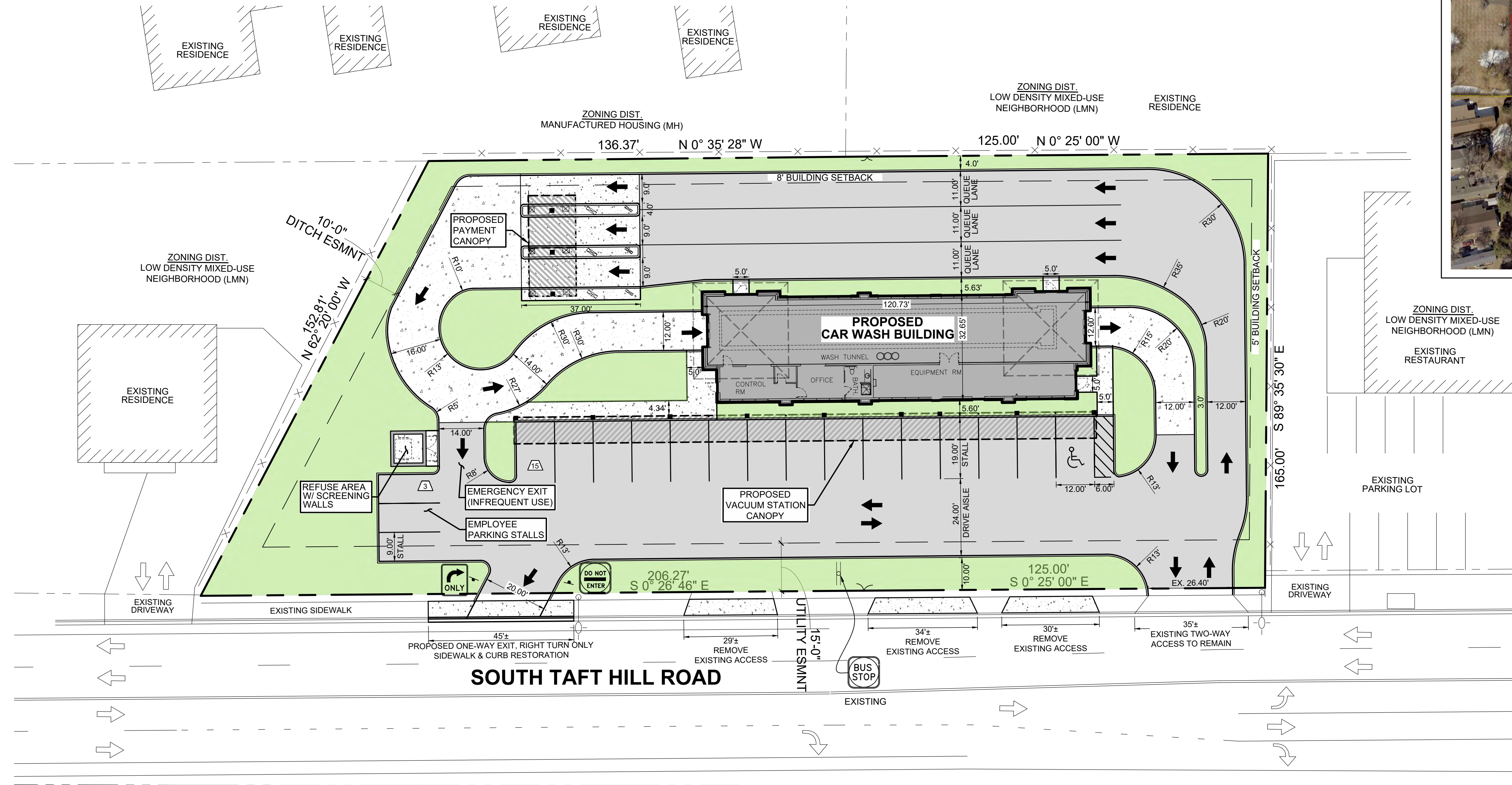
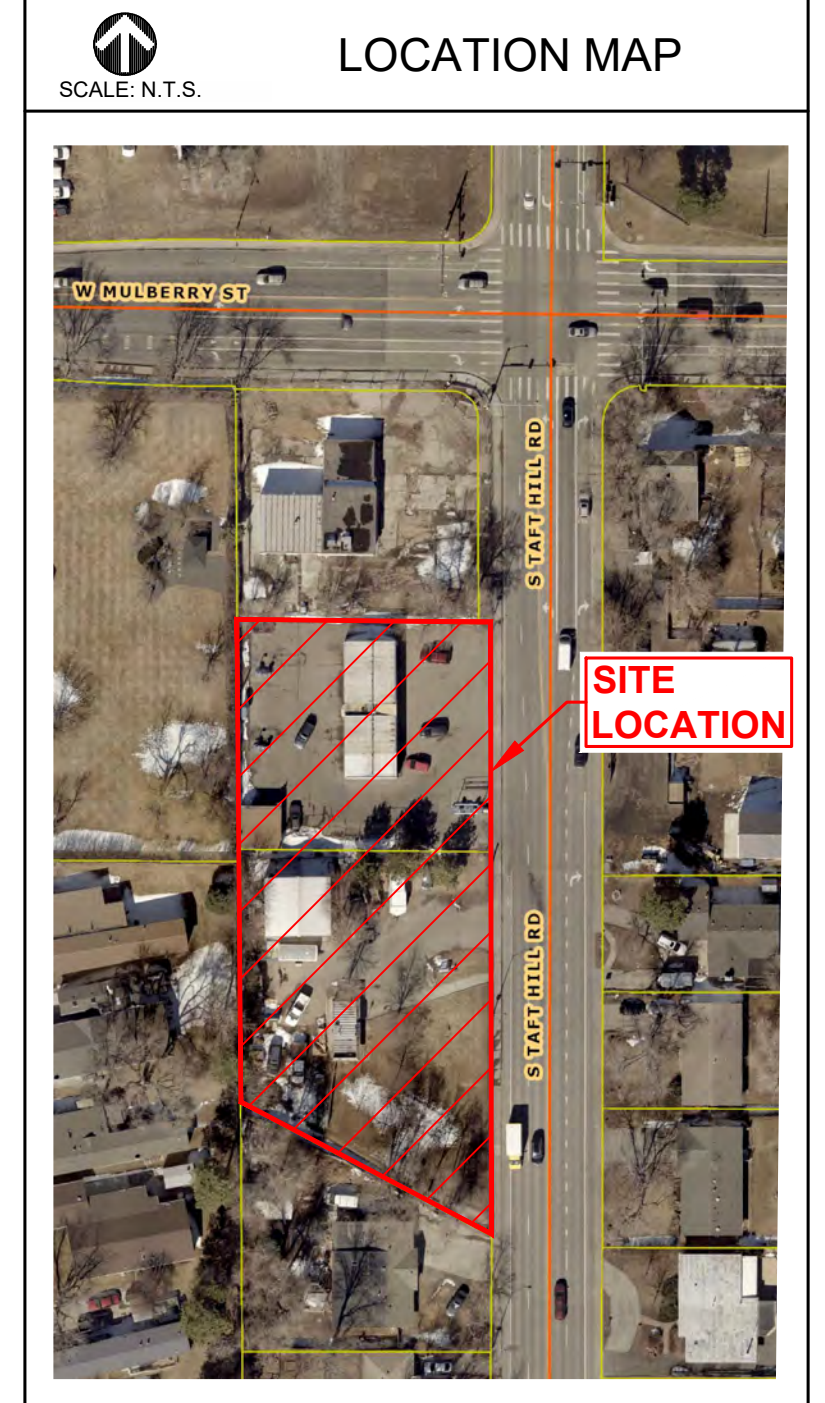
(Approximate amount of additional building, pavement, or etc. that will cover existing bare ground to be added to the site)

Suggested items for the Sketch Plan:

Property location and boundaries, surrounding land uses, proposed use(s), existing and proposed improvements (buildings, landscaping, parking/drive areas, water treatment/detention, drainage), existing natural features (water bodies, wetlands, large trees, wildlife, canals, irrigation ditches), utility line locations (if known), photographs (helpful but not required). Things to consider when making a proposal: How does the site drain now? Will it change? If so, what will change?



PRINTED ON 11"X17" WILL PRODUCE SCALE OF 1"=40'



ZONING DIST. LOW DENSITY MIXED-USE NEIGHBORHOOD (LMN)

LOT DATA:

ADDRESS: 525 & 505 SOUTH TAFT RD. FORT COLLINS, CO 80521

LOT AREA: 0.92 AC ±

MUNICIPALITY: FORT COLLINS

ZONING: LOW DENSITY MIXED-USE NEIGHBORHOOD (LMN)

COUNTY: LARIMER

PARCEL #: 9716100018 & 9716161001

FLOOD ZONE: FEMA; X (AREA OF MINIMAL FLOOD HAZARD FIRM PANEL 08069C0978G, EFF 5/2/2012)

CITY OF FORT COLLINS; NO CITY HIGH RISK - FLOODWAY
NO CITY HIGH RISK - 100 YEAR
NO CITY MODERATE RISK - 100 YEAR

PROPOSED IMPROVEMENTS COVERAGE:

TOTAL AREA	= 0.92 AC. ±
IMPERVIOUS AREA	= 0.66 AC. (72%)
PERVIOUS AREA	= 0.26 AC. (28%)

VEHICLE PARKING SUMMARY:

EMPLOYEE STALLS:	3
ADA / VACUUM STALLS:	1
VACUUM STALLS:	14
TOTAL STALLS:	18

- NOTES:**
- PROPERTY LINES WAS DRAWN PER LARIMER COUNTY GIS DATA & CLIENT PROVIDE DOCUMENTS.
 - EXISTING IMPROVEMENTS SHOWN WAS DRAWN FROM GOOGLE AERIALS.
 - ALL EXISTING IMPROVEMENTS AND PROPERTY LINES ARE TO BE VERIFIED WITH SURVEY CAD LINEWORK WHEN AVAILABLE.

LEGEND

- PARKING STALLS IN EACH ROW
- PAINTED ACCESSIBILITY PARKING SYMBOL
- PROPOSED CONCRETE BARRIER CURB
- DIRECTIONAL TRAFFIC ARROW
- PROPOSED BITUMINOUS PAVEMENT
- PROPOSED CONCRETE
- PROPOSED PERVIOUS AREA

PREPARED FOR:

DESIGN, DEVELOPMENT, CONSULTING

PREPARED BY:

600 Busse Highway
Park Ridge, IL 60068
Ph: 847/698-6400
Fax: 847/698-6401

SUBMITTALS AND REVISIONS

No.	DESCRIPTION	DATE
-	SITE PLAN EXHIBIT SET	01-27-23

SITE IMPROVEMENTS

FOR

CAR WASH FACILITY

525 S TAFT RD. FORT COLLINS, CO 80521

DESIGNED BY: M.S.E.

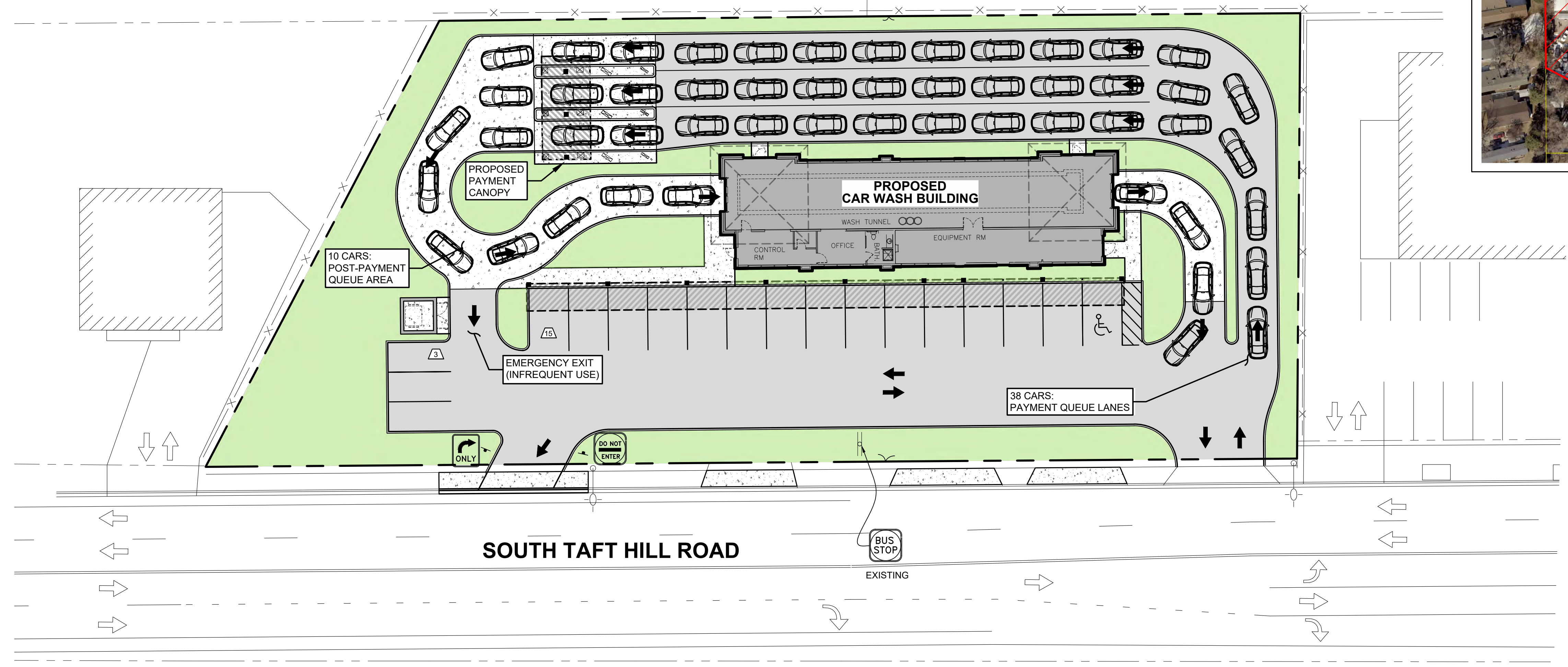
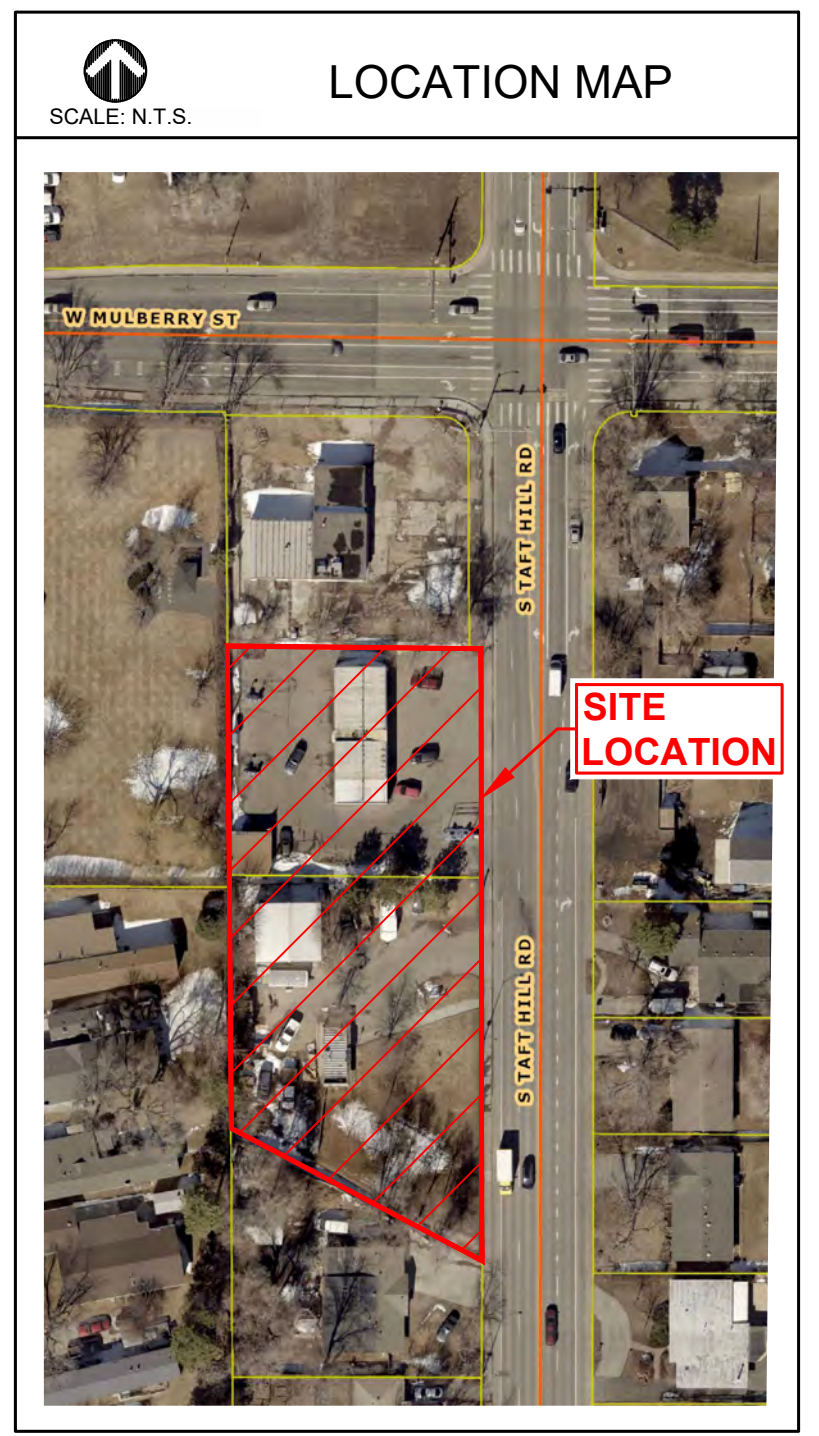
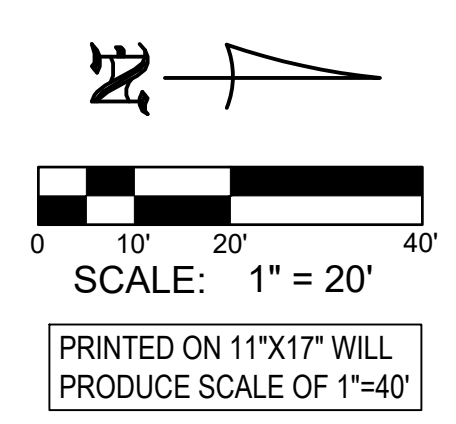
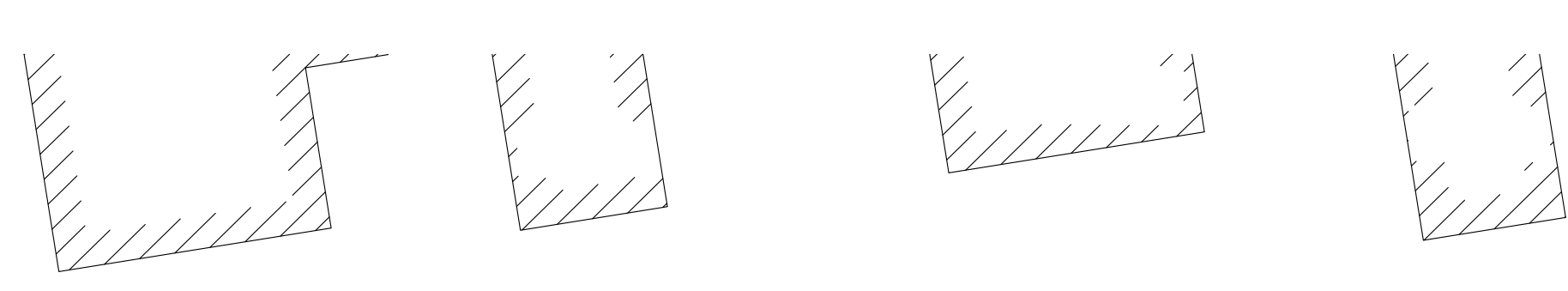
DRAWN BY: K.S.B.

DATE: 01/09/2023

PROJECT #: 1623

SHEET TITLE

SITE PLAN EXHIBIT



PASSENGER CAR (TYPICAL)
 feet
 Width : 7.00
 Track : 6.00
 Lock to Lock Time : 6.0
 Steering Angle : 31.5
 NOTE:
 THE SIZE OF THE CAR SHOWN IS AVERAGE LARGER SIZED CAR.

PREPARED FOR:

 CAR WASH Pro Designers
 Design, Development, Consulting

PREPARED BY:

TERRA CONSULTING GROUP
 600 Busse Highway
 Park Ridge, IL 60068
 Ph: 847/698-6400
 Fax: 847/698-6401

SUBMITTALS AND REVISIONS

No.	DESCRIPTION	DATE
-	SITE PLAN EXHIBIT SET	01-27-23

SITE IMPROVEMENTS

 FOR

CAR WASH FACILITY

 525 S TAFT RD. FORT COLLINS, CO 80521

DESIGNED BY: M.S.E.
 DRAWN BY: K.S.B.
 DATE: 01/09/2023
 PROJECT #: 1623

SHEET TITLE
CAR QUEUE LINE EXHIBIT

SHEET NUMBER
2
 OF 4

ARCHITECT

NERI ARCHITECTS

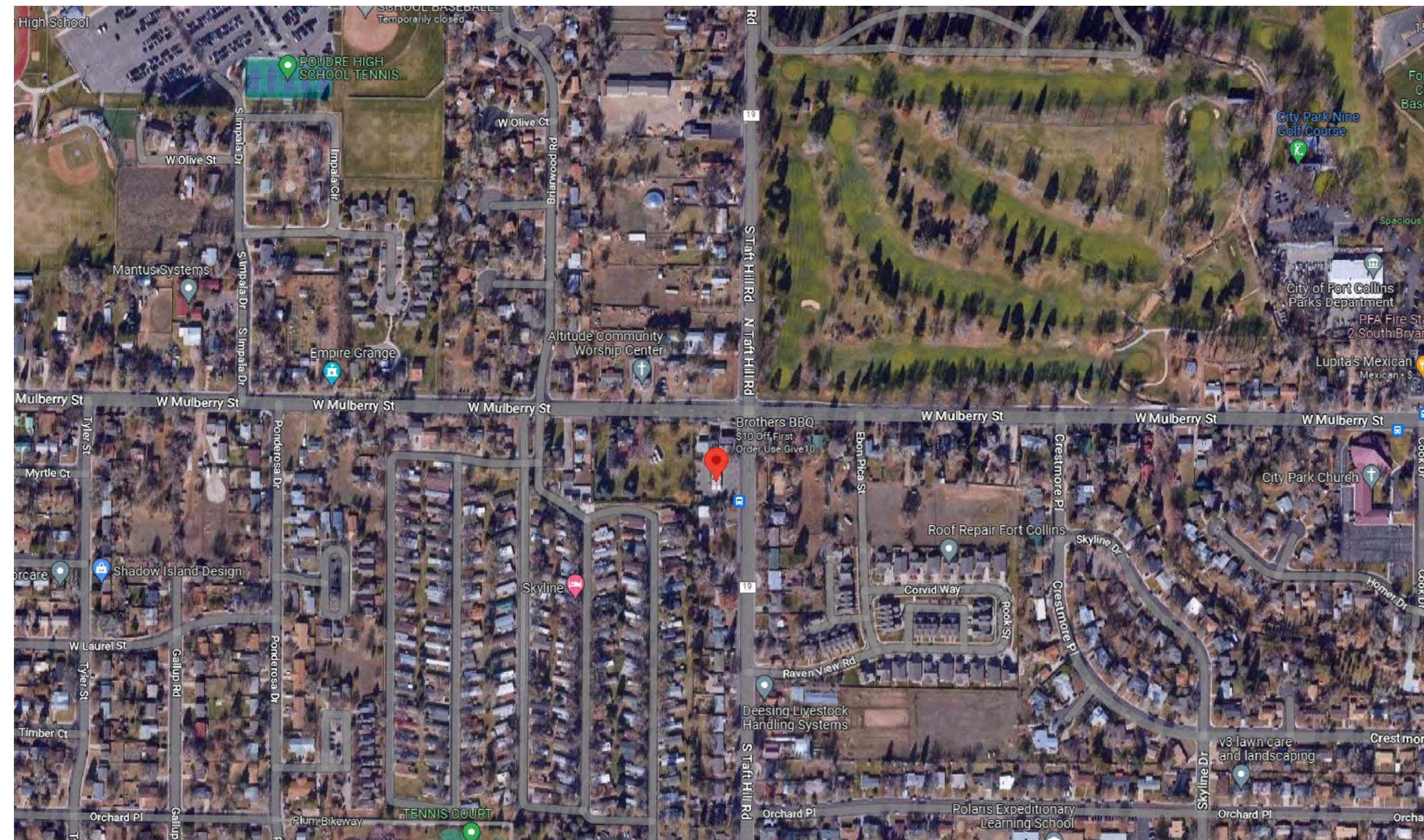
6400 N. NORTHWEST HWY. SUITE 4
CHICAGO, IL 60631
P. 847.825.9400

LICENSE # 1301070132
EXPIRATION DATE: MARCH 02, 2023

CONSULTANTS INFO:

CIVIL ENGINEER

TERRA CONSULTING GROUP, LTD.
600 BUSSE HWY, PARK RIDGE, IL 60068
Phone: 847-698-6400



ZONING & LOT DATA

ADDRESS: 525 & 505 SOUTH TAFT RD. FORT COLLINS, CO 80521

PIN#: 9716100018, 9716161001

ACREAGE: TOTAL = 0.92± (FROM DU PAGE COUNTY GIS)

ZONING: LOW DENSITY MIXED-USE NEIGHBORHOOD (LMN)

PROJECT DATA

SCOPE OF WORK: NEW COMMERCIAL BUILDING

APPLICABLE CODES:
(Building codes have been adopted by the City of Fort Collins)

- 2021 INTERNATIONAL BUILDING CODE
- 2021 INTERNATIONAL ENERGY CONSERVATION CODE
- 2021 INTERNATIONAL FIRE CODE
- 2021 INTERNATIONAL FUEL GAS CODE
- 2021 INTERNATIONAL MECHANICAL CODE
- 2020 NATIONAL ELECTRICAL CODE
- 2018 INTERNATIONAL PLUMBING CODE
- COLORADO PLUMBING CODE
- 2017 ACCESSIBILITY CODE

CLIMATE ZONE 5B

EXISTING USE: COMMERCIAL BUILDING

BUILDING DESCRIPTION

USE GROUP: "B" - COMMERCIAL CARWASH

OCCUPANCY LOADS: 22 (Breakdown on A2-2)

BUILDING AREA: ONE STORY (30'-0")

CONSTRUCTION TYPE: IIB / Non-Sprinklered

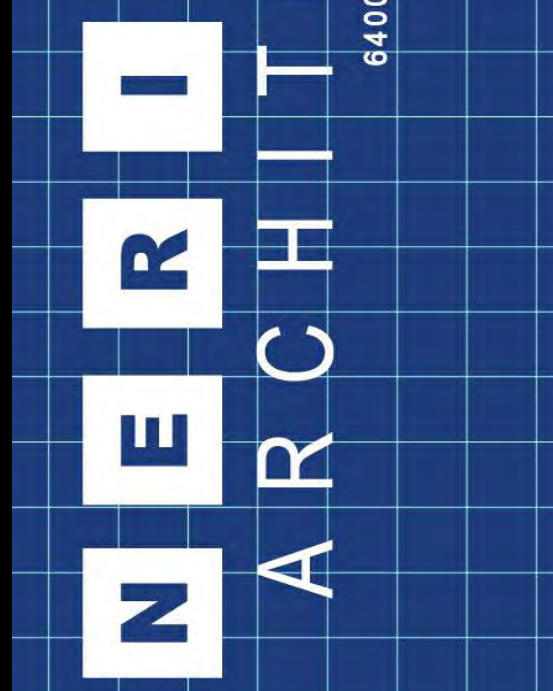
PROPOSED BUILDING AREA: 3,945 SQ. FT.

PROJECT NOTES CODES, STANDARDS, AND PROCEDURES

1. ALL CONSTRUCTION SHALL COMPLY WITH INTERNATIONAL BUILDING CODES, OSHA, AND ZONING CODES, CITY OF FORT COLLINS, STATE OF COLORADO, AND ALL OF THE UNITED STATES OF AMERICA FEDERAL AGENCY REQUIREMENTS.
2. BEFORE DOING ANY CONSTRUCTION, CONTACT LOCAL ELECTRIC COMPANY AND ASK FOR THE "NEW BUSINESS GROUP". REQUEST AN ONSITE MEETING AND COORDINATION OF PROPOSED WORK. BRING ARCHITECTURAL DRAWINGS AND OBTAIN APPROVAL ON CLEARANCES FOR ALL NEW STRUCTURES BEING BUILT AND/ OR ELECTRIC SERVICE BEING MOVED AND/ OR UPGRADED.
3. BEFORE DOING ANY CONSTRUCTION, CONTACT J.U.L.I.E. TO DETERMINE THE LOCATION OF ANY UNDERGROUND UTILITIES WHICH MAY AFFECT PROPOSED SITE WORK. 8-1-1 IS THE NATIONWIDE TOLL-FREE NUMBER FOR LOCATION SERVICES. CALL JULIE'S TOLL-FREE NUMBER 1-800-892-0123.
4. ALL CARWASH EQUIPMENT SHALL BE PROVIDED BY NATIONAL CARWASH SOLUTIONS (NCS) AND COORDINATED w/ NERI ARCHITECTS' INFORMATION.
5. ALL REFERENCES TO CODES, SPECIFICATIONS, AND STANDARDS, REFERRED TO IN THE SPECIFICATIONS AND / OR DRAWINGS SHALL MEAN THE LATEST EDITION, AMENDMENT OR REVISION OF SUCH REFERENCE IN EFFECT AS OF THE LATEST DATE OF THE CONTRACT DOCUMENTS.
6. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS, POLICIES, AND PROCEDURES OF THE OWNER.
7. DRAWINGS AND SPECIFICATIONS ARE TO BE ISSUED TO THE SUBCONTRACTORS IN COMPLETE SETS SO THAT THE FULL EXTENT OF WORK IS SHOWN AND COORDINATION OF WORK IS MADE POSSIBLE.
8. ALL WORK SHALL BE OF THE HIGHEST QUALITY FOLLOWING THE CONTRACT DOCUMENTS, PROJECT SPECIFICATIONS, MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS, AND THE BEST ACCEPTED TRADE PRACTICES AND STANDARDS.
9. DETAILS SHOWN ARE INTENDED TO BE INDICATIVE OF THE PROFILES AND TYPES OF DETAILING REQUIRED FOR THE WORK. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO THOSE DETAILED.
10. PROVIDE ALL SHOP DRAWINGS, CATALOG CUTS, SAMPLES, ETC. FOR THE NECESSARY WORK REQUIRED AND FOR ARCHITECTS REVIEW PRIOR TO COMMENCEMENT OF THE WORK.
11. EACH CONTRACTOR SHALL KEEP ACCURATE RECORDS OF ALL WORK WHICH DIFFERS FROM CONTRACT DOCUMENTS SO THAT ACCURATE RECORD DRAWINGS AND SPECIFICATIONS CAN BE KEPT AND PROVIDED TO THE OWNER AT PROJECT CLOSEOUT.
12. EACH CONTRACTOR SHALL VISIT THE SITE AND BE KNOWLEDGEABLE OF CONDITIONS THERE OF. FAILURE TO EXAMINE THE SITE AND DETERMINE EXISTING CONDITIONS OR NATURE OF NEW CONSTRUCTION, OR NATURE AND EXTENT OF WORK TO BE PERFORMED BY OTHER TRADES WILL NOT BE CONSIDERED A BASIS FOR GRANTING OF ADDITIONAL COMPENSATION.
13. THE CONTRACTOR SHALL INVESTIGATE, VERIFY AND BE RESPONSIBLE FOR ALL REQUIREMENTS OF THE PROJECT AND SHALL NOTIFY THE ARCHITECT OF ANY CONDITIONS CONTRARY TO THE CONSTRUCTION DOCUMENTS THAT REQUIRE MODIFICATION BEFORE PROCEEDING WITH THE WORK.
14. THE CONTRACTOR SHALL PROTECT ALL EXISTING SITE ELEMENTS FROM DAMAGE DUE TO THE CONSTRUCTION OPERATIONS, AND REPAIR OR REPLACE ANY ELEMENTS DAMAGED DURING THE PROJECT.
15. ANY UTILITY SHUT-OFFS AS REQUIRED BY THE CONTRACTOR FOR COMPLETION OF THEIR WORK SUCH AS ELECTRICAL, GAS, AND / OR WATER SHOULD BE COORDINATED w/ NERI ARCHITECTS' INFORMATION.

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	C-2B	SPECIFICATIONS	S-301	SECTIONS & DETAILS	
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A-7.0		SIGNAGE, REFUSE, PAY STATION	P3-0	SCHEDULES & RISERS	
A-7.1		VACUUM STATION/CANOPY	P3-1	PLUMBING EQUIP. PLAN	
A-8.0		DOOR SCHEDULE	P3-2	PLUMBING PIPING & UNDERGROUND	
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			P3-5	AIR EQUIPMENT SCHEDULE	



PROJECT # 2304
DATE: 02/15/23



DESIGN FIRM #: 184.003719-0001
EXP: 04.30.23

NEW AUTOMATED CARWASH FACILITY
 525 & 505 SOUTH TAFT RD.
 FORT COLLINS, CO 80521
 ZONING REVIEW - NOT FOR CONSTRUCTION

02.15.23	ZONING REVIEW
REVISIONS	
DRAWN BY:	RAM
APPROVED BY:	GON / MAM
SCALE:	AS NOTED
DESCRIPTION:	COVERSHEET & PROJECT INFO
SHEET NO.	T-1.0

NOTES:

WOOD (GENERAL SPECIFICATIONS) - All wood shall be western red cedar, selected for good appearance and free of wane and bark pockets. All torn grain and surface stain shall be eliminated by sanding or planing. Members with heavy knots and/or sap stain shall be well distributed throughout the installation. The skirt rail shall be pressure treated.

INFILL - T & G select (sound) tight knot NLGA pattern 18-(200) modified 54 mm 2 1/8" (dressed both sides) with bevelled edges on both sides.

HORIZONTAL MEMBERS - Shall be 38x140 mm. dressed to pattern, the grade to be NLGA 204B or better select tight knot grade.

POSTS - Shall be 140x140 mm. dressed to pattern, the grade to be NLGA 131B#1 structural post and timber.

STAIN FOR WOOD FENCE - Stain shall consist of :

- A base of blended resins and oils in a water suspension
- Suspended solids which are not less than 21% and not greater than 31% by volume.
- V.O.C.'s (volatile organic compounds) which are not in excess of 350g/L in accordance with A.S.T.M. D-2369.
- Levels of liquid microbicides and any other potential toxic substances which are environmentally safe (not requiring Provincial or Federal registration).
- None of the following hazardous substances :
 - Folpet [N-(trichloromethylthio) phthalimide]
 - Bis (tributyltin) oxide
 - Copper Naphthenate
 - Copper 8 Quinolinate
 - Zinc Naphthenate
- Sufficient oxide pigments to obtain desired colour tone and level of opacity (color to be approved by City for each installation).

STAIN APPLICATION - Apply two coats on clean dry wood using spray, brush or dipping methods to achieve full coverage of all exposed surfaces. Apply outdoors only in suitable weather conditions during which the temperature is between 5°C and 21°C for a period of 48 hours following applications.

FASTENERS - Including ardox nails, bolts, nuts and washers, shall be hot-dip galvanized steel.

CONCRETE - Shall be 25 MPA at 28 days minimum.

MASONRY PIERS - Of a design to be approved by the City of Brampton shall be constructed at a minimum spacing of every sixth post location.

EXECUTION:

SOIL - Beneath and within 2 m radius of any footing, shall be certified 95% standard proctor density prior to construction.

POSTS - Shall be plumb within 5 mm/m above grade.

INFILL - Members shall be tight fitted to eliminate all gaps and rattling.

STEP FENCE - On slopes step fence panels a minimum of 50 mm and a maximum of 150 mm at each post.

DOUBLE POST - All direction changes greater than 20 degree.

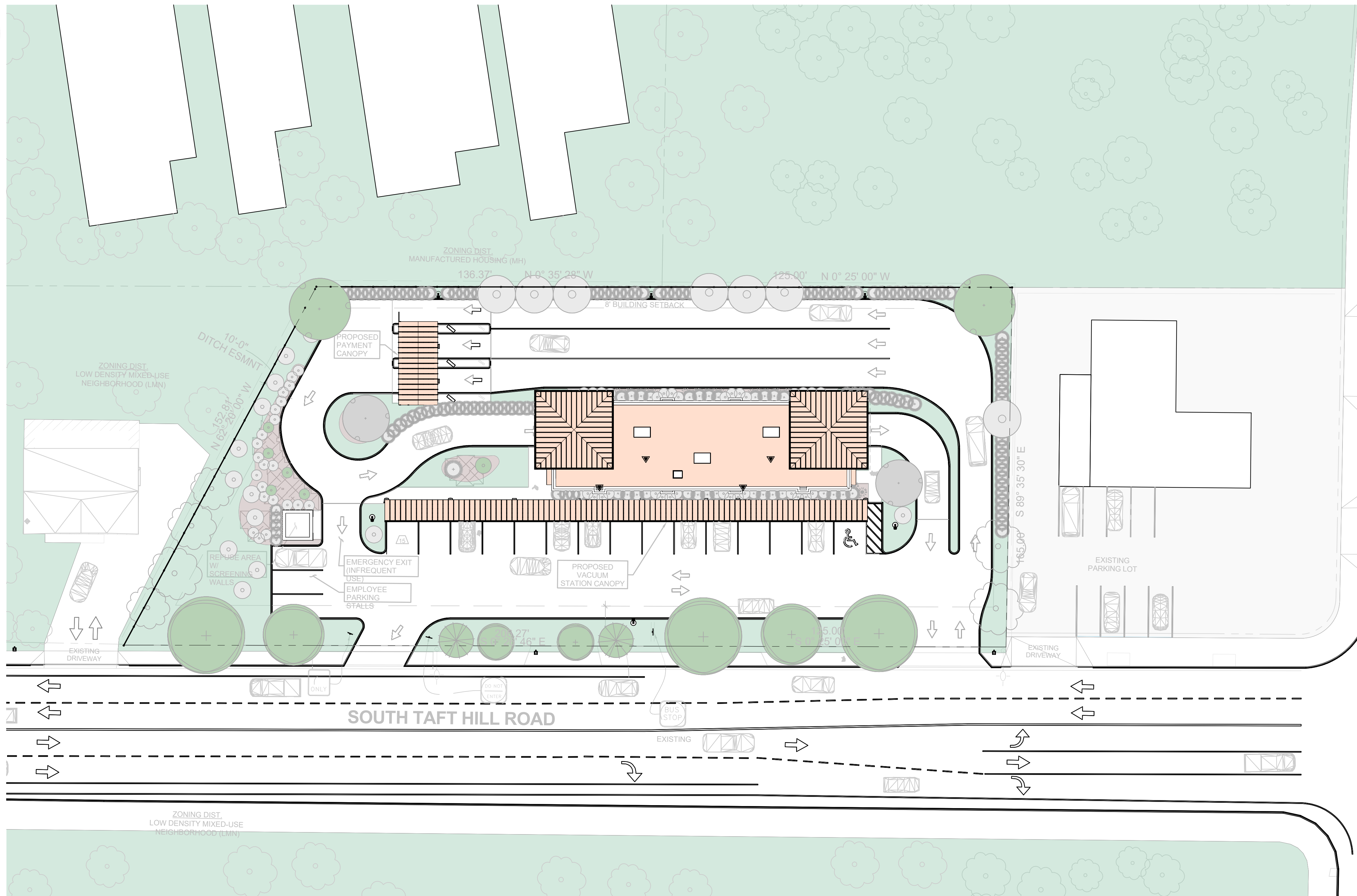
NAILING - All nails galv. ardox and 75 mm (3") unless noted otherwise. All nails to be evenly spaced and set not less than 25 mm. from edge of any member.

- Rails : 3 nails to post at each end, 3 nails thru bottom front rail to vertical members and 3 nails to skirt board in staggered pattern.
- Skirt Rail : 2 nails to post at each end.
- Facia Board : 2 nails 50mm (2") each end to vertical members and 5 nails in staggered pattern along board.
- Vertical Members : 2 nails 88 mm (3 1/2") per board to bottom rails and 2 nails 50 mm (2") per board for mid-rail at board overlaps.
- Coping : 2 nails thru edges to post at each end and 6 nails thru top to vertical members.

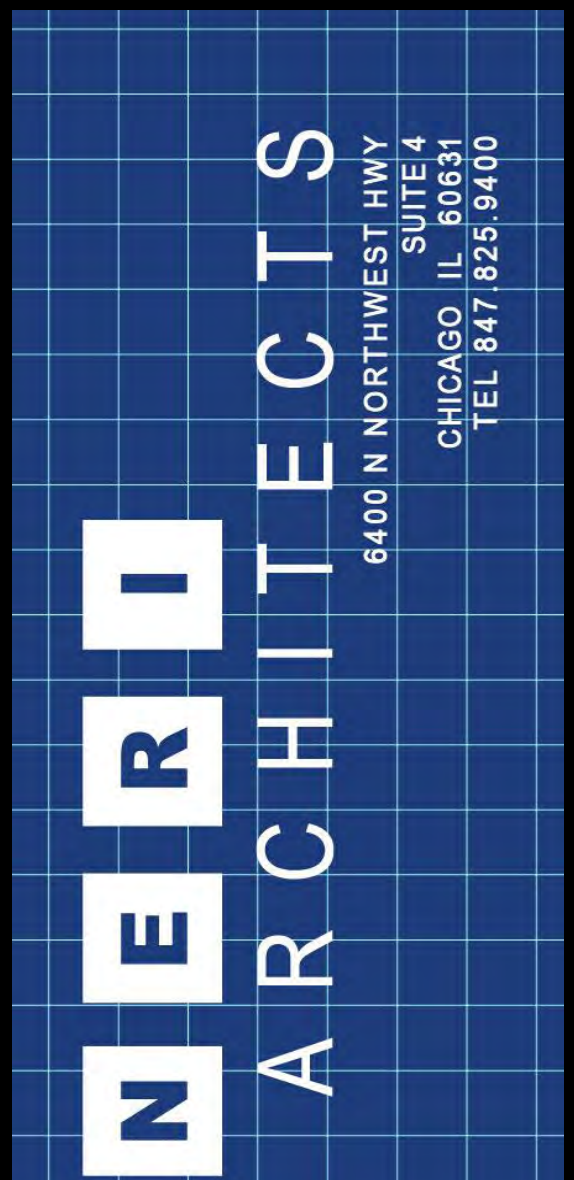
NOTES - In some cases, limited portions of wood acoustic fence may be constructed up to 2.4 m high. 150 x 200 posts are required for any 2.4 m high wood acoustic fences.

WARRANTY - The fence shall be guaranteed for three years as follows : 5 mm/m on plumb of posts and level of infill members. Gaps between infill members shall not exceed 6 mm (1/4"). Infill members shall be tight and free of rattling.

ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.



1 SITE PLAN
G-1.2 SCALE: 3/8" = 1'-0"
N



PROJECT # 2304
DATE: 02/15/23



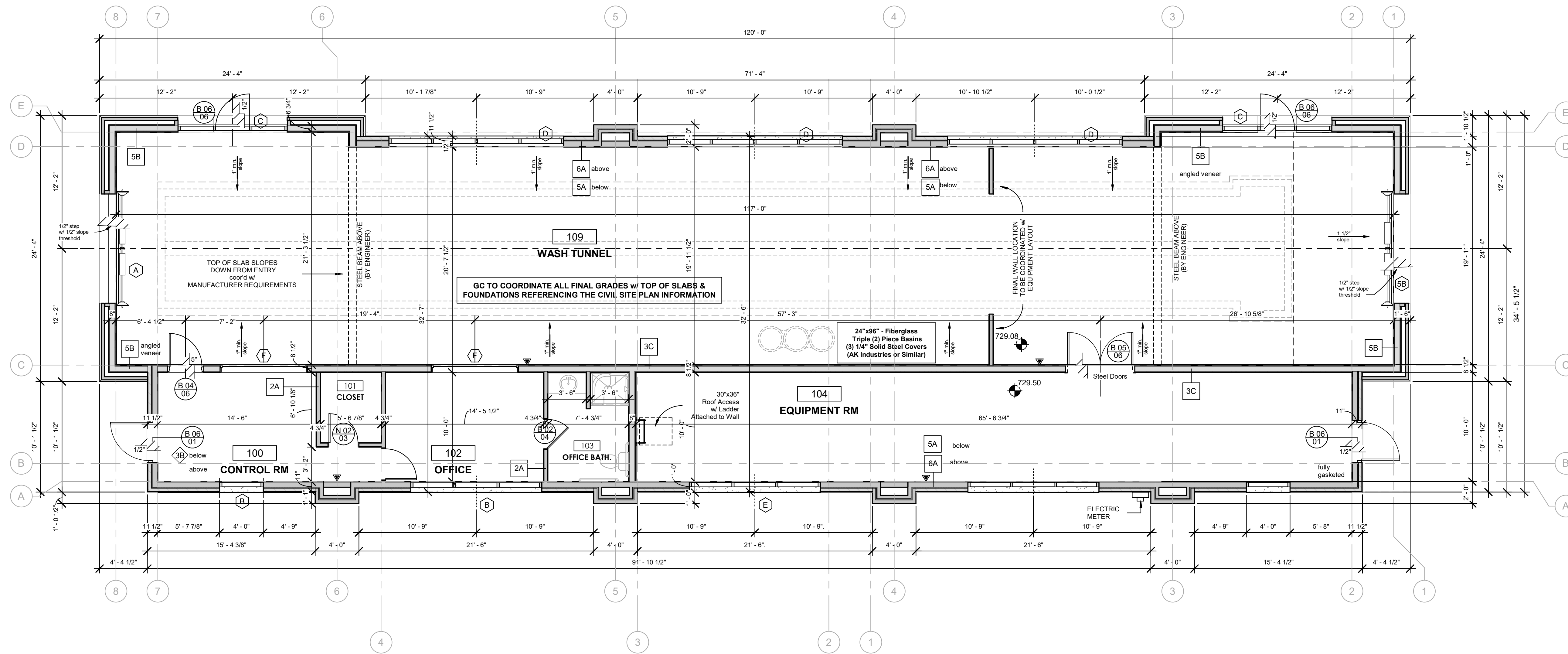
DESIGN FIRM #: 184.003719-0001
EXP: 04.30.23

NEW AUTOMATED CARWASH FACILITY

525 & 505 SOUTH TAFT RD.
FORT COLLINS, CO 80521

ZONING REVIEW - NOT FOR CONSTRUCTION

DATE	REVISIONS
02.15.23	ZONING REVIEW
DRAWN BY: RAM	
APPROVED BY: GCN / MAM	
SCALE: AS NOTED	
DESCRIPTION: SITE PLAN	
SHEET NO. G-1.2	



1 FIRST FLOOR PLAN
 A-2.1 SCALE: 3/16" = 1'-0" N

PROJECT # 2304
 DATE: 02/15/23



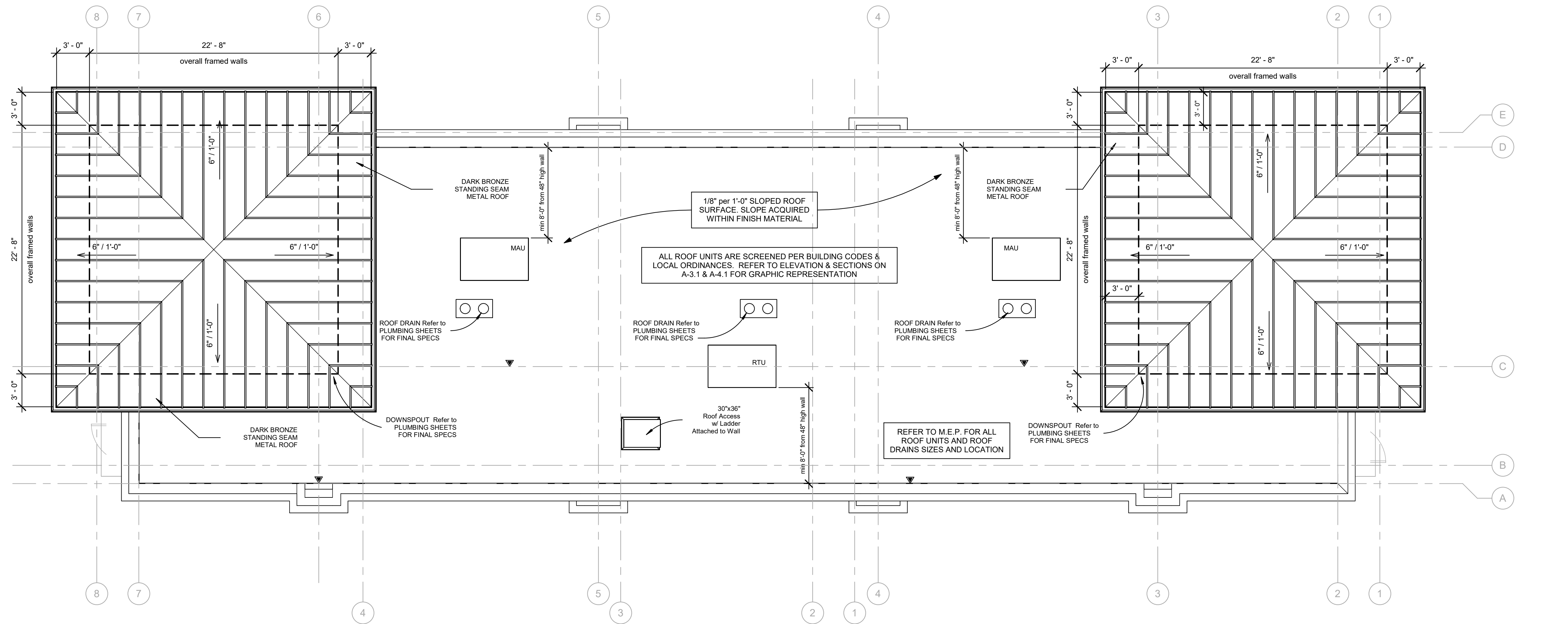
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NEW AUTOMATED CARWASH FACILITY

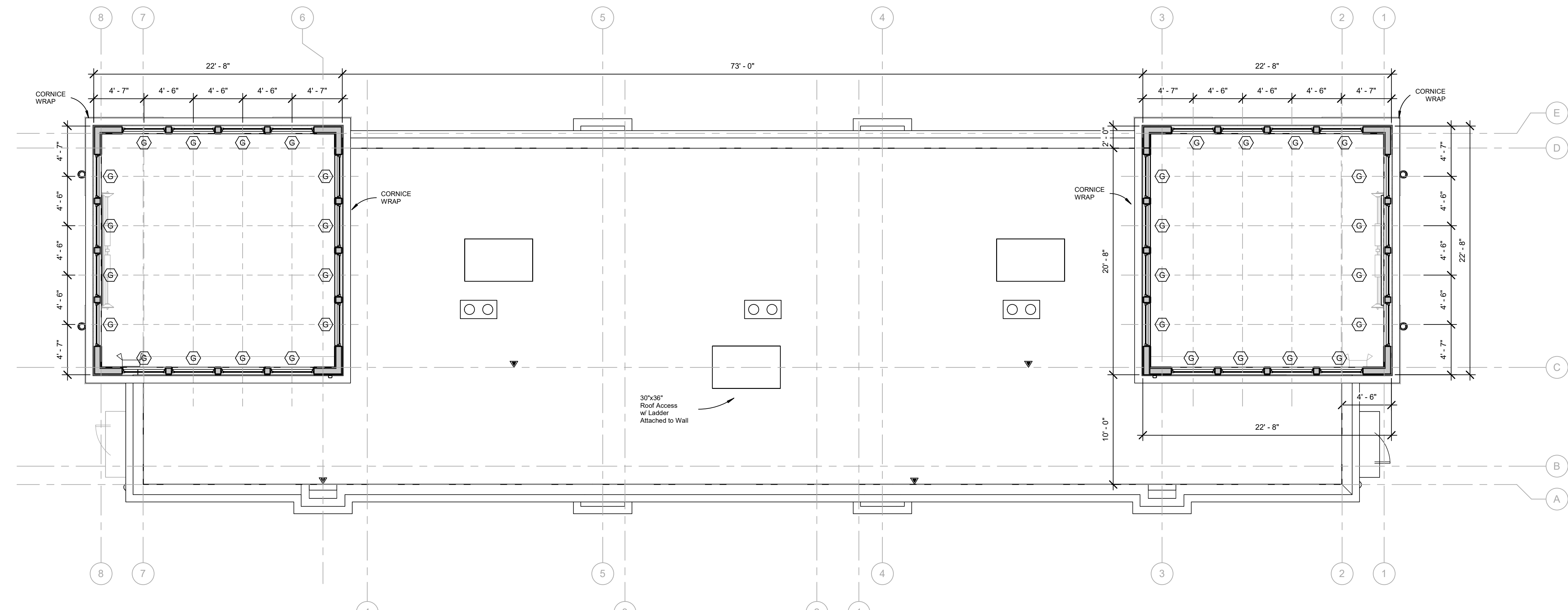
525 & 505 SOUTH TAFT RD.
 FORT COLLINS, CO 80521

ZONING REVIEW - NOT FOR CONSTRUCTION

02.15.23	ZONING REVIEW
REVISIONS	
DRAWN BY:	RAM
APPROVED BY:	GCN / MAM
SCALE:	AS NOTED
DESCRIPTION:	FLOOR PLAN
SHEET NO.	A-2.1



1 ROOF PLAN
SCALE: 3/16" = 1'-0"



2 TOWER PLAN
SCALE: 3/16" = 1'-0"

PROJECT # 2304
DATE: 02/15/23



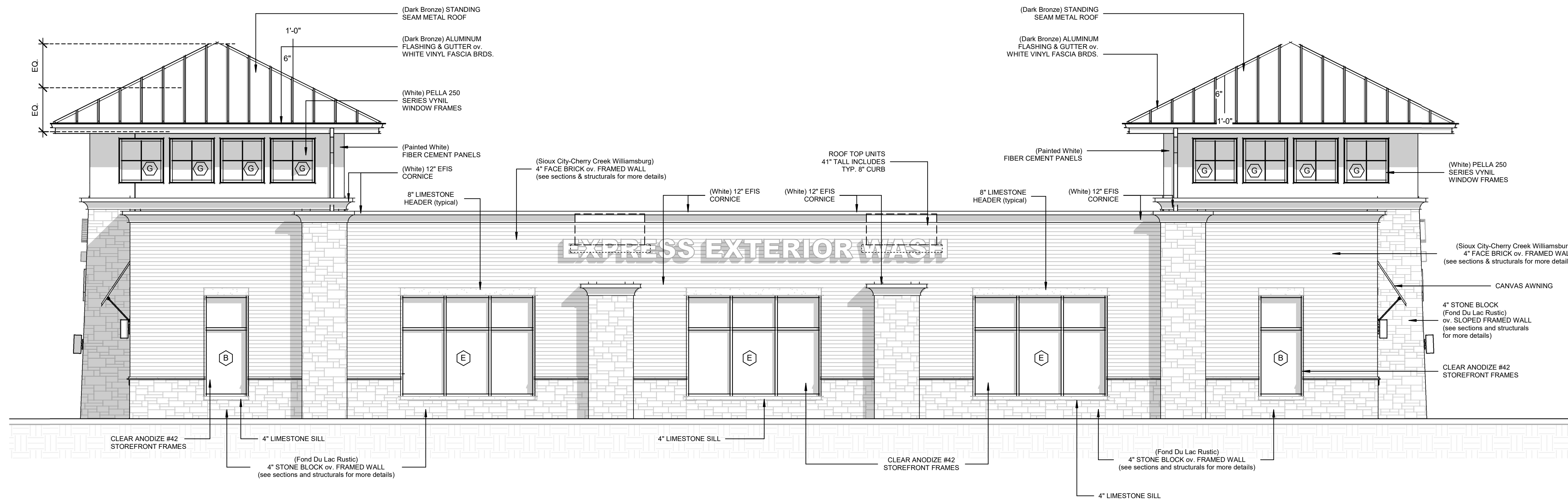
DESIGN FIRM #: 184.003719-0001
EXP: 04.30.23

NEW AUTOMATED CARWASH FACILITY

525 & 505 SOUTH TAFT RD.
FORT COLLINS, CO 80521

ZONING REVIEW - NOT FOR CONSTRUCTION

02.15.23	ZONING REVIEW
REVISIONS	
DRAWN BY:	RAM
APPROVED BY:	GCN / MAM
SCALE:	AS NOTED
DESCRIPTION:	ROOF & TOWER PLANS
SHEET NO.	A-2.3



2 Main Elevation-South
SCALE: 3/16" = 1'-0"

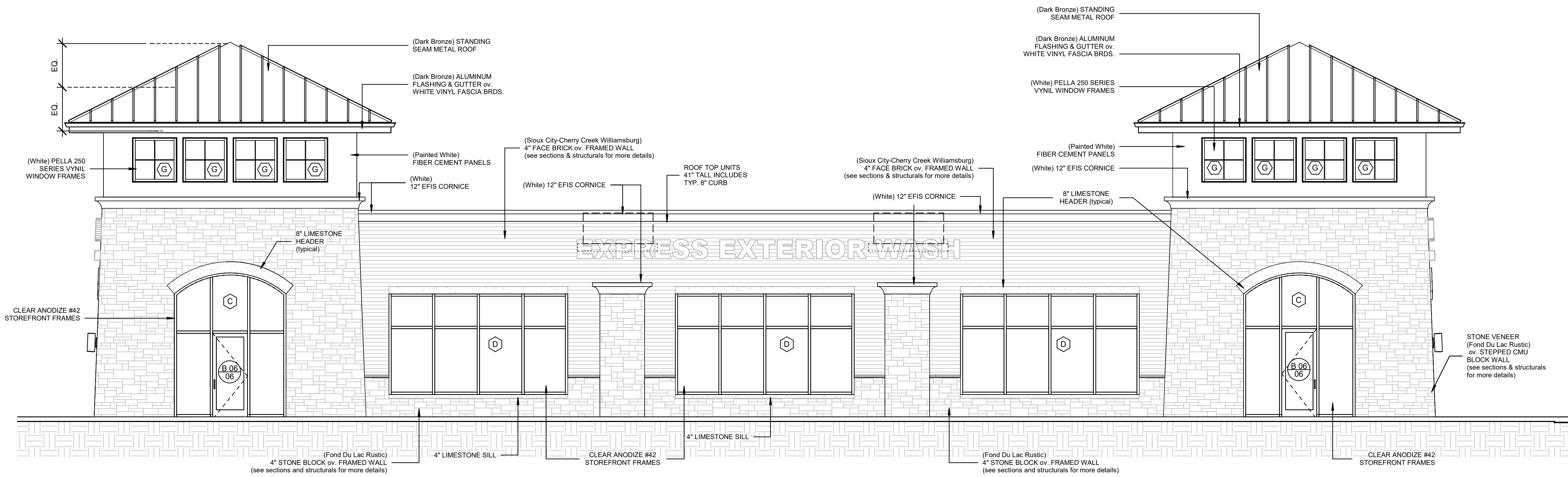
Primary Materials
Face Brick & Stone Block (64%)

Accent Material
Fiber Cement Panels (8.6%)

A minimum of 35% shall be transparent Ground Level :
Ground level shall be defined to be between
2'-0" & 8'-0" measured vertically from the adjacent grade.

Proposed Transparent = 45% (of Ground Level)
Ground Level Zone = 903.94 sq. ft.
Transparent Elements = 408.21 sq. ft.

- **Tower Roofs**
Metal-(Dark Bronze)
- **Main Body of Building**
4" Face Brick - (Sioux City-Cherry Creek Williamsburg)
4"- 5" Stone Block (Fond Du Lac Rustic)
- **Accent Walls - Upper Tower Walls**
Fiber Cement Panels (White)



1 Side Elevation-North
SCALE: 3/16" = 1'-0"

Primary Materials
Face Brick & Stone Block (57.4%)

Accent Material
Fiber Cement Panels (8.6%)

NERVO

ARCHITECTS

6400 N NORTHWEST HWY
 SUITE 4
 CHICAGO, IL 60631
 TEL: 847.825.9400

PROJECT # 2304

DATE: 02/15/23

DESIGN FIRM #: 184.003719-0001
EXP: 04.30.23

NEW AUTOMATED CARWASH FACILITY

525 & 505 SOUTH TAFT RD.
FORT COLLINS, CO 80521

ZONING REVIEW - NOT FOR CONSTRUCTION

NO.	DATE	REVISIONS

02.15.23

ZONING REVIEW

DRAWN BY: RAM

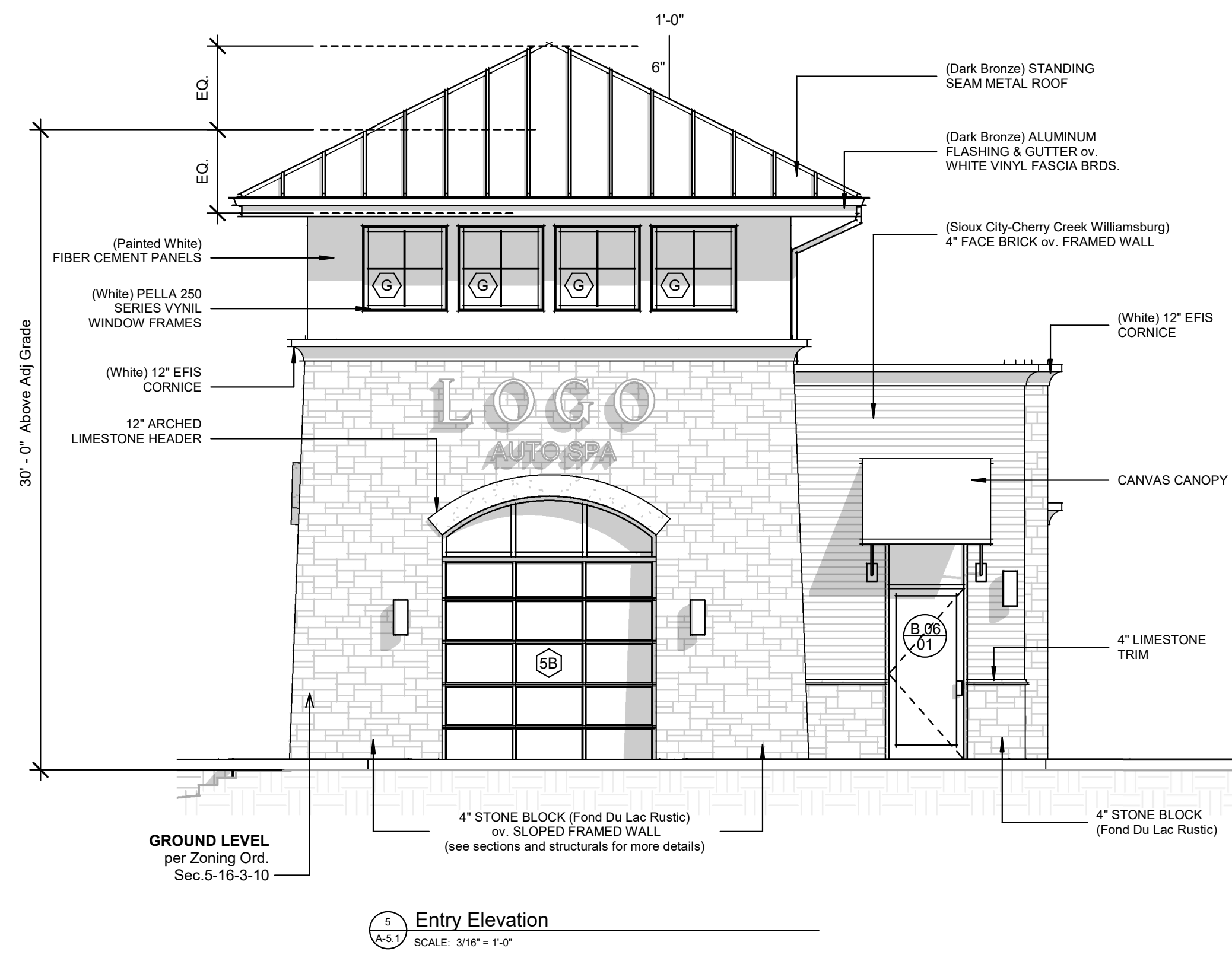
APPROVED BY: GCN / MAM

SCALE: AS NOTED

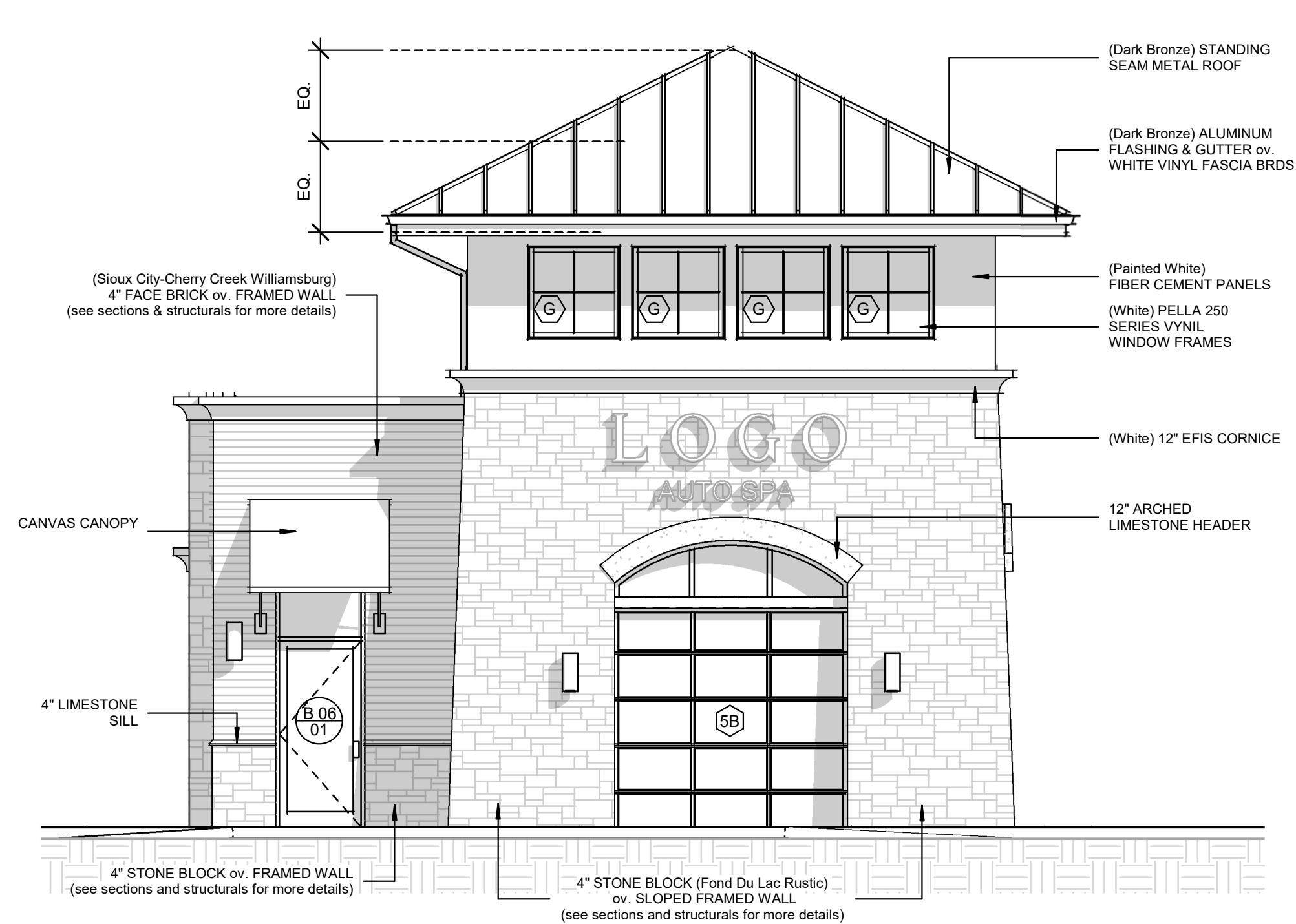
DESCRIPTION: MAIN ELEVATIONS

SHEET NO.

A-5.0



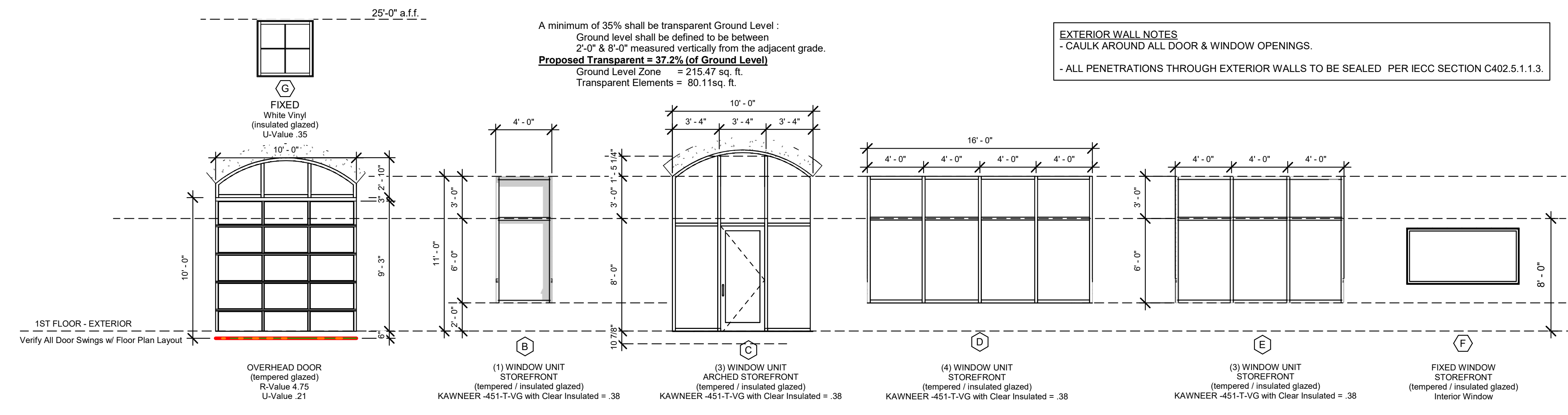
3 Entry Elevation
SCALE: 3/16" = 1'-0"



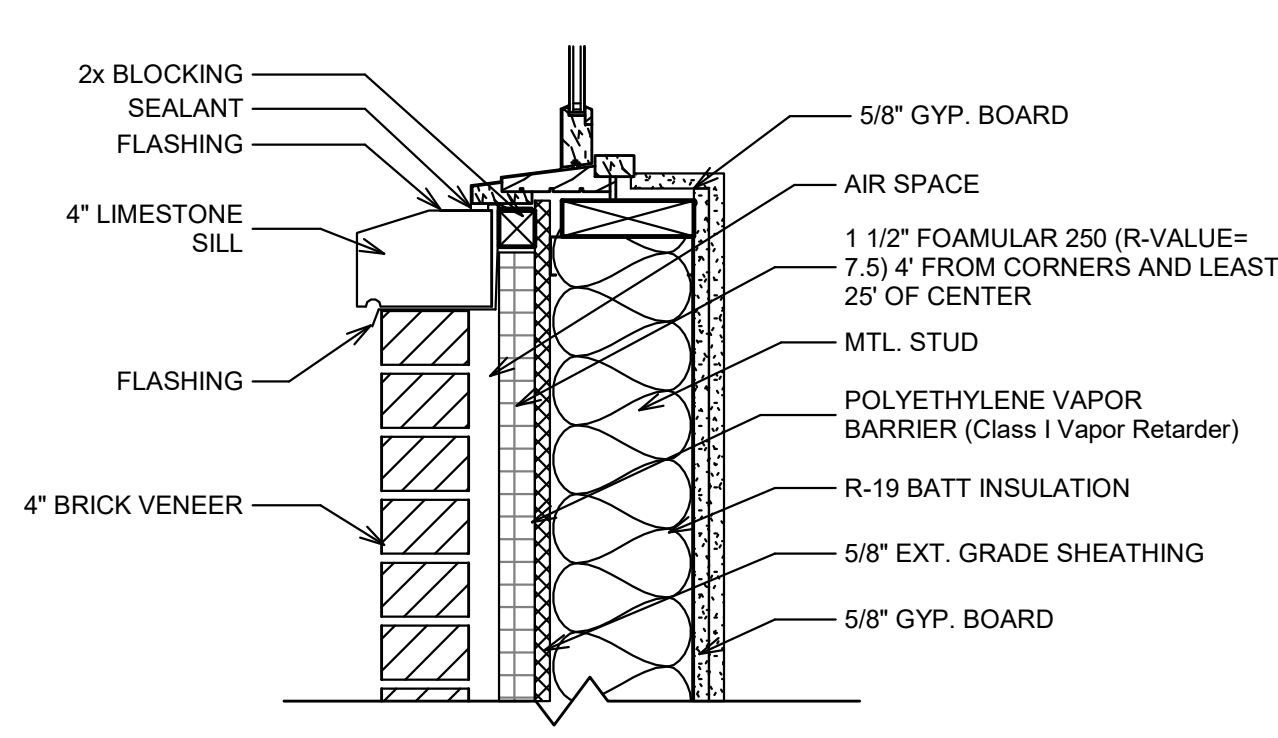
6 Exit Elevation
SCALE: 3/16" = 1'-0"

Primary Materials
Face Brick & Stone Block (65.8%)

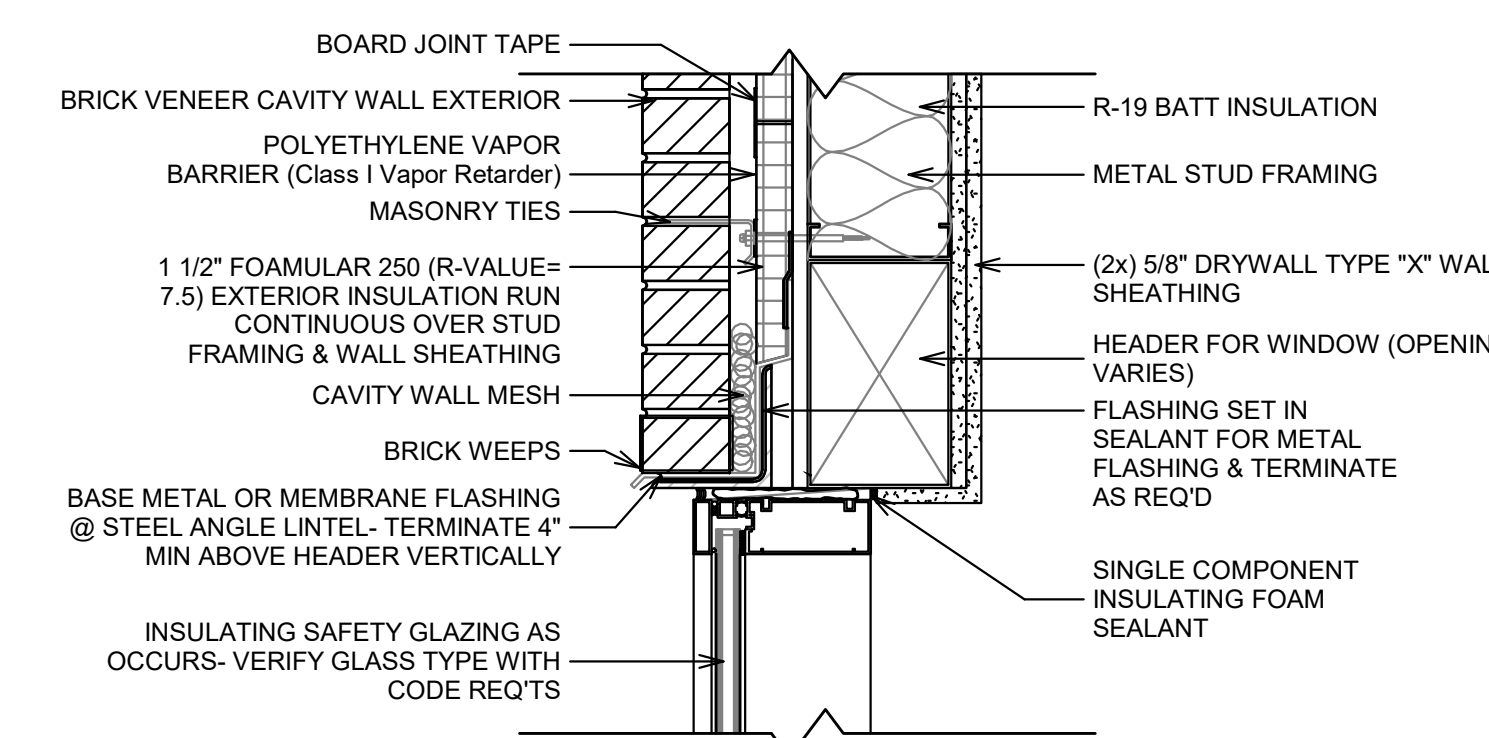
Accent Material
Fiber Cement Panels (15.9%)



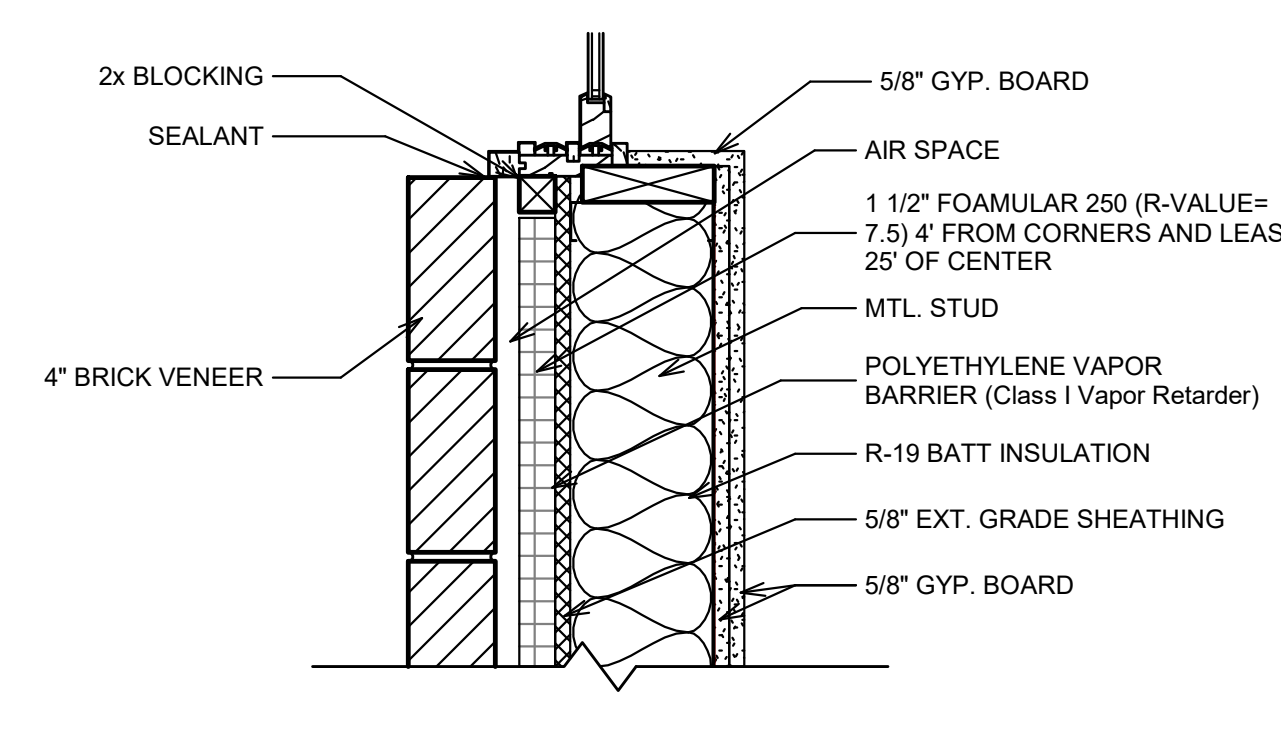
EXTERIOR WALL NOTES
- CAULK AROUND ALL DOOR & WINDOW OPENINGS.
- ALL PENETRATIONS THROUGH EXTERIOR WALLS TO BE SEALED PER IECC SECTION C402.5.1.1.3.



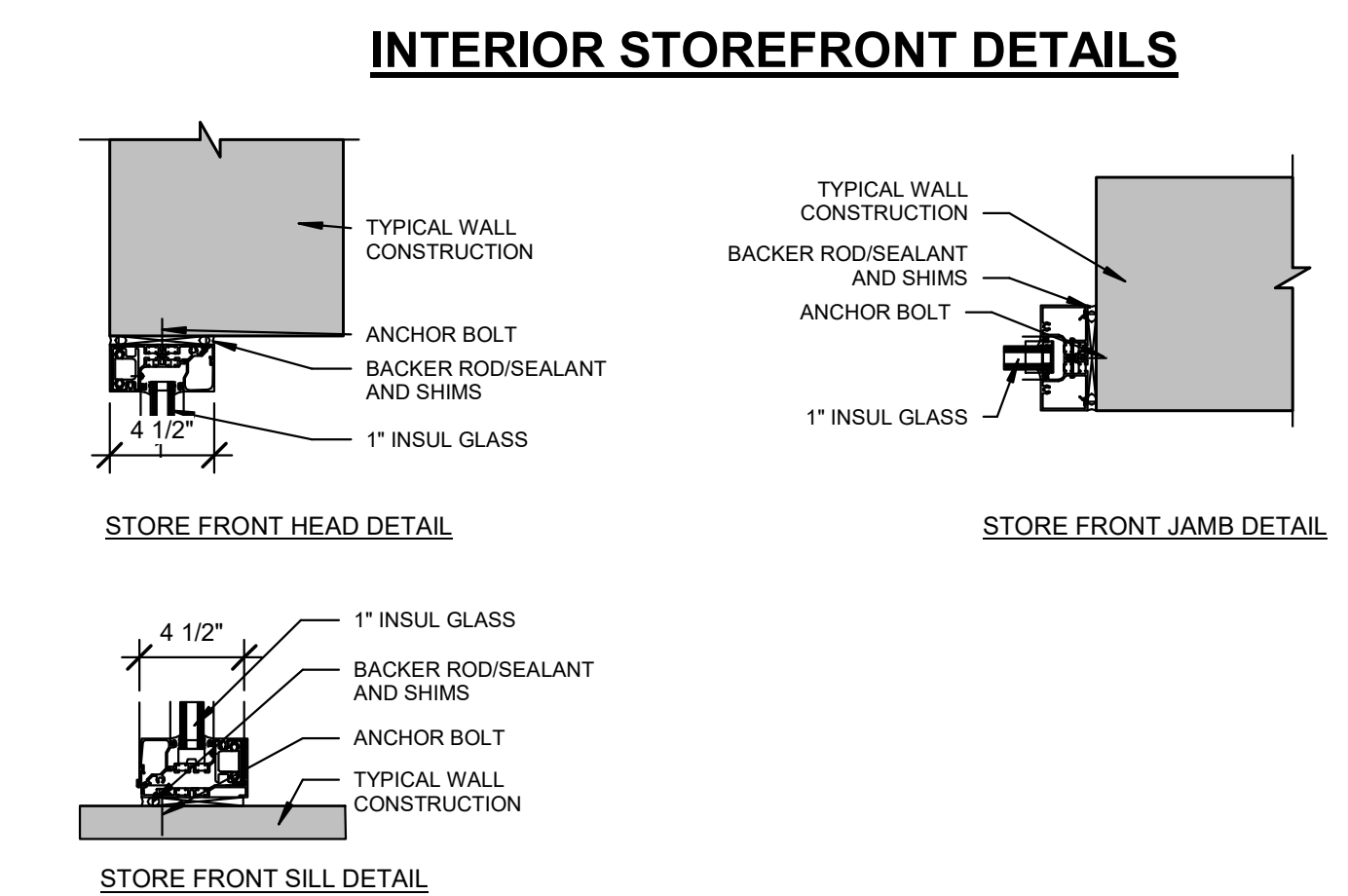
10 WINDOW SILL DETAIL - brick veneer
SCALE: 1 1/2" = 1'-0"



9 WINDOW HEADER DETAIL - brick veneer
SCALE: 1 1/2" = 1'-0"



8 WINDOW JAMB DETAIL - brick veneer
SCALE: 1 1/2" = 1'-0"



INTERIOR STOREFRONT DETAILS

NERVO ARCHITECTS
6400 N NORTHWEST HWY SUITE 4 CHICAGO, IL 60631 TEL: 847.825.9400

PROJECT # 2304
DATE: 02/15/23

DESIGN FIRM #: 184.003719-0001
EXP: 04.30.23

NEW AUTOMATED CARWASH FACILITY
525 & 505 SOUTH TAFT RD.
FORT COLLINS, CO 80521
ZONING REVIEW - NOT FOR CONSTRUCTION

02.15.23	ZONING REVIEW
REVISIONS	
▲	DRAWN BY: RAM
	APPROVED BY: GCN / MAM
	SCALE: AS NOTED
	DESCRIPTION: MAIN ELEVATIONS & WINDOW SCHDL.
SHEET NO.	A-5.1

2/17/2023 1:37:50 PM

PROJECT # 2304
 DATE: 02/15/23



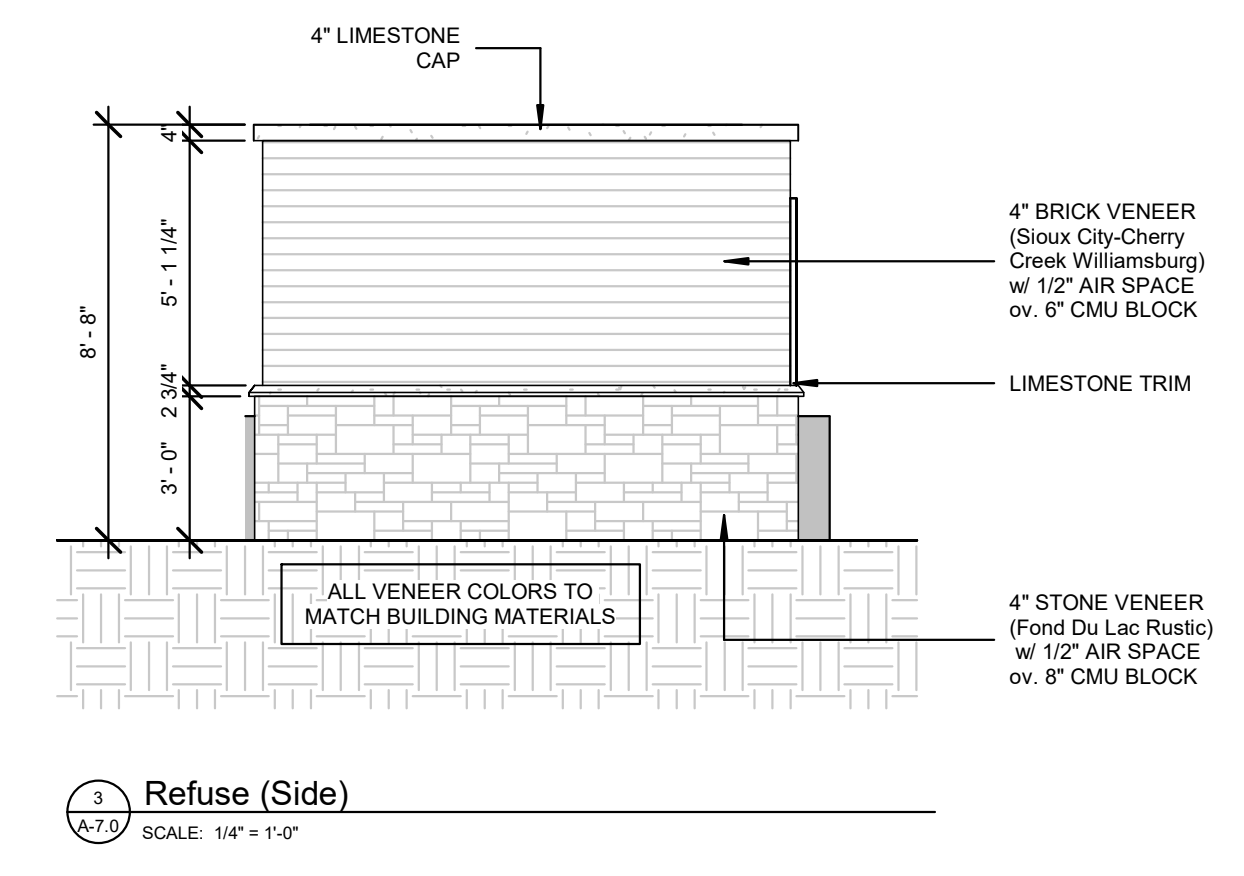
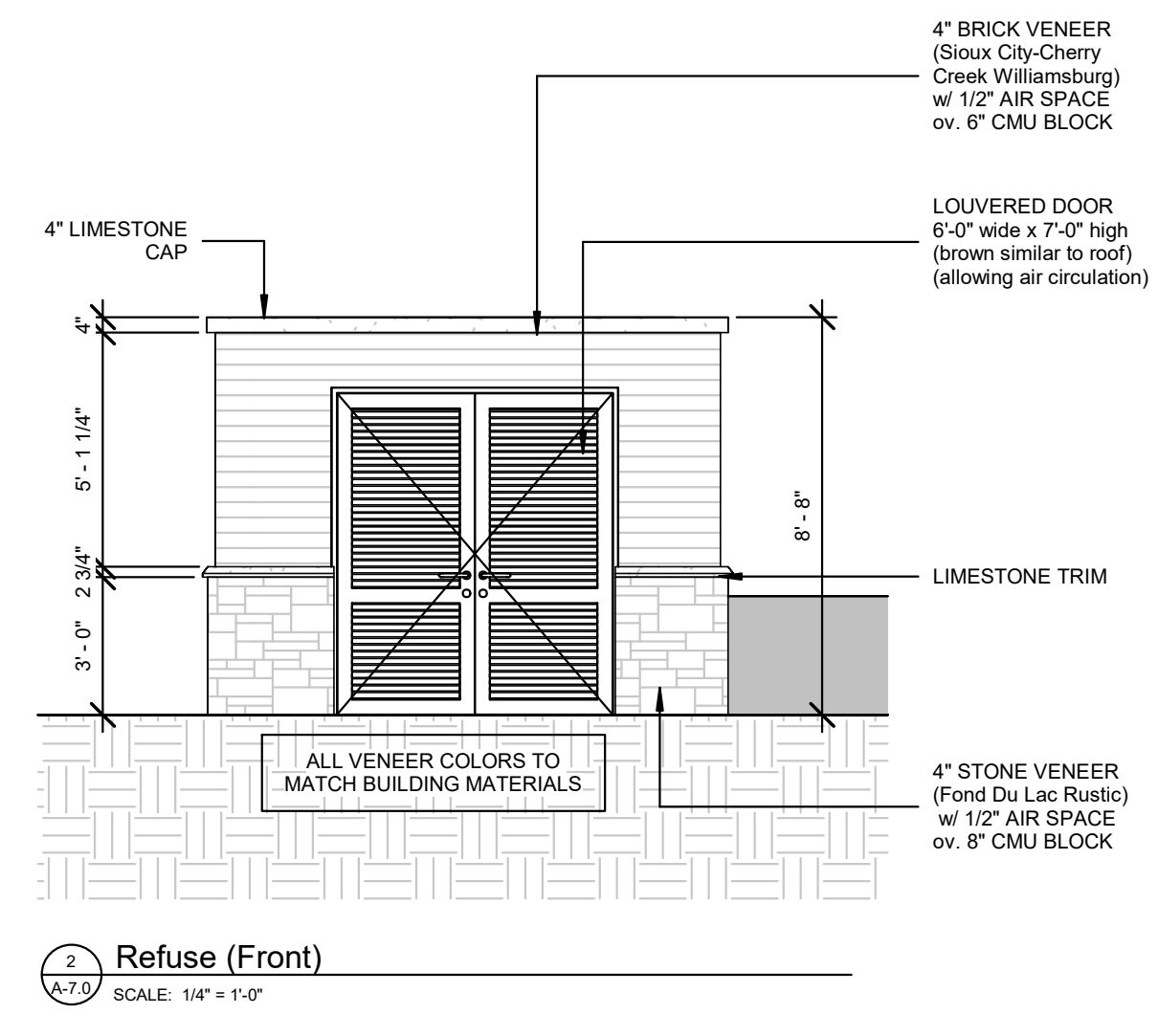
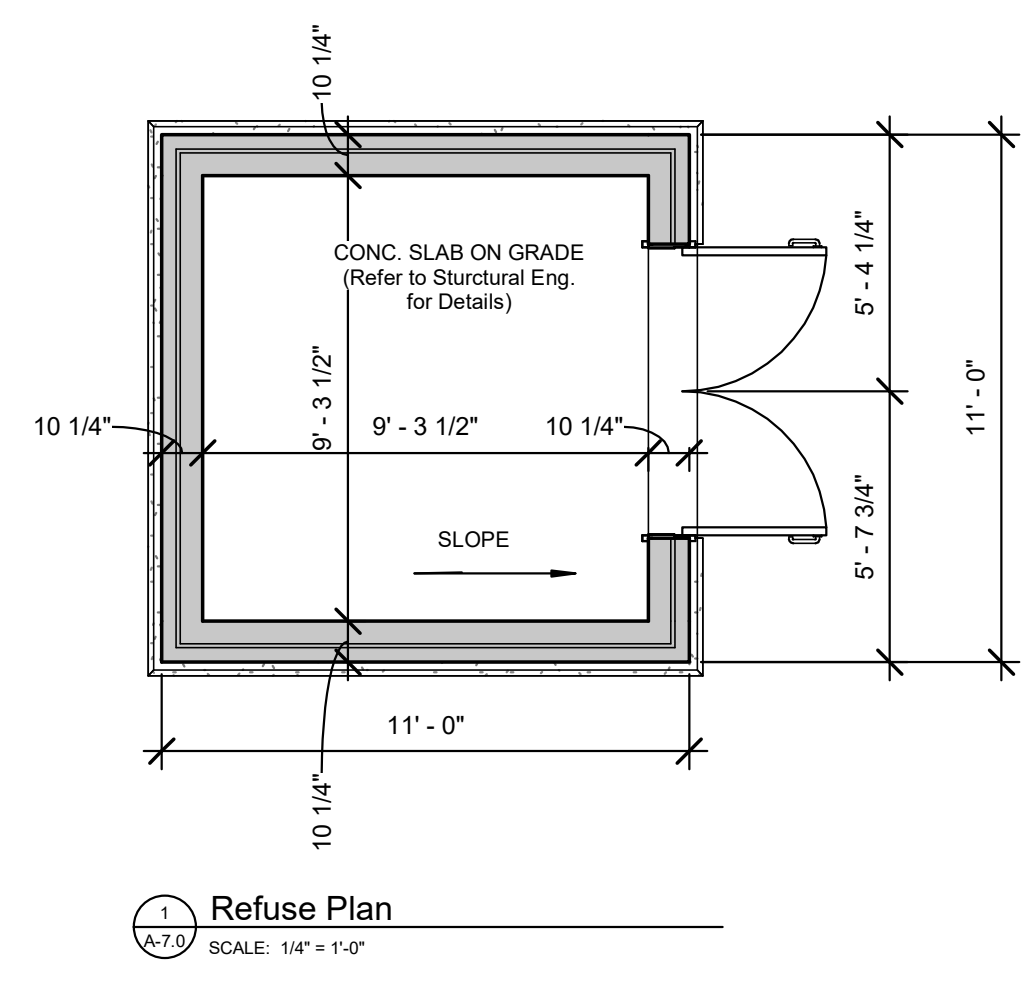
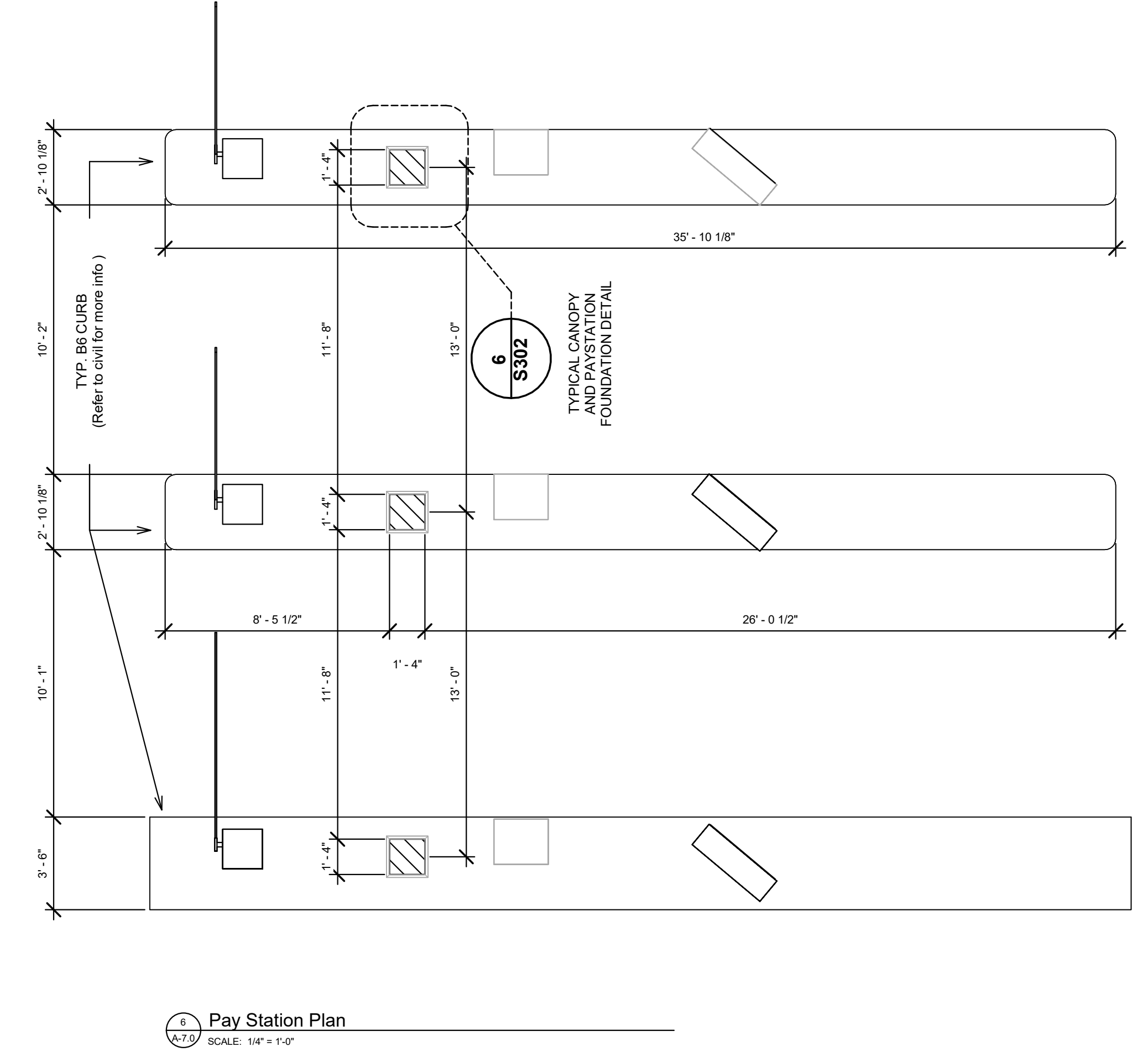
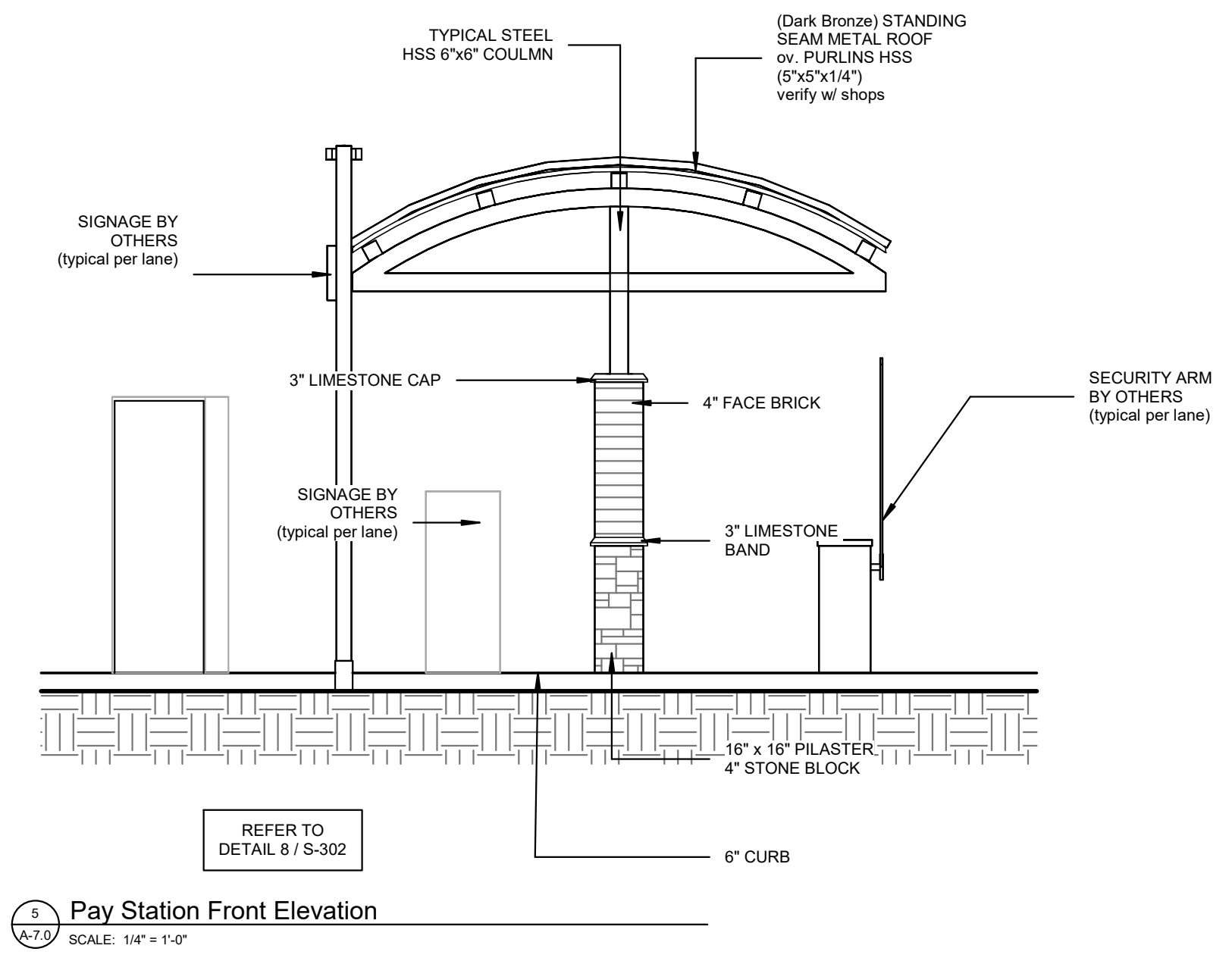
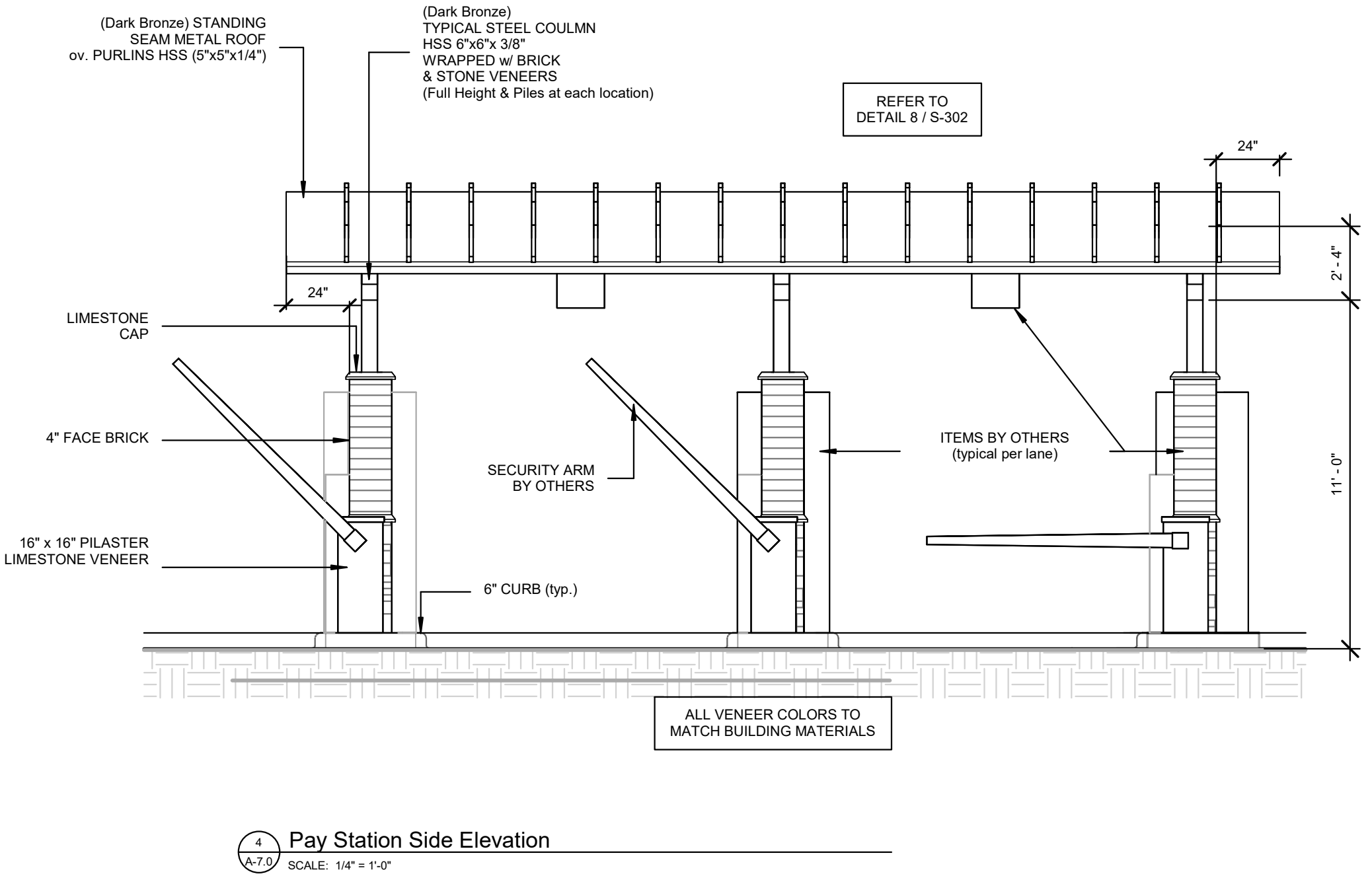
DESIGN FIRM #: 184.003719-0001
 EXP: 04.30.23

NEW AUTOMATED CARWASH FACILITY

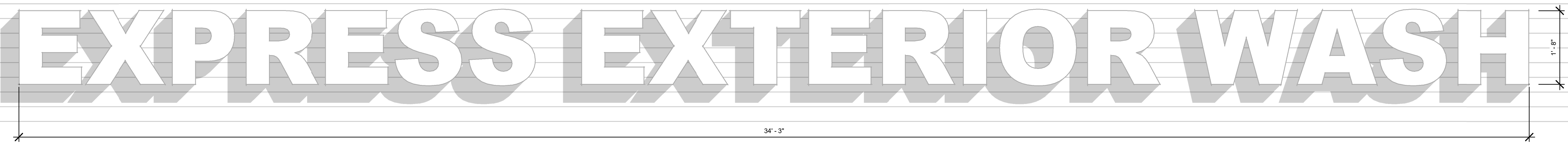
525 & 505 SOUTH TAFT RD.
 FORT COLLINS, CO 80521

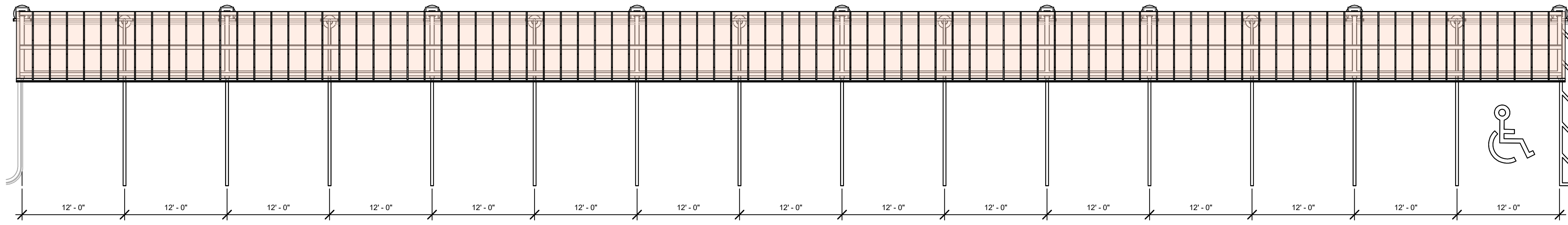
ZONING REVIEW - NOT FOR CONSTRUCTION

02.15.23	ZONING REVIEW
REVISIONS	
DRAWN BY:	RAM
APPROVED BY:	GCN / MAM
SCALE:	AS NOTED
DESCRIPTION:	SIGNAGE, REFUSE, PAY STATION
SHEET NO.	A-7.0

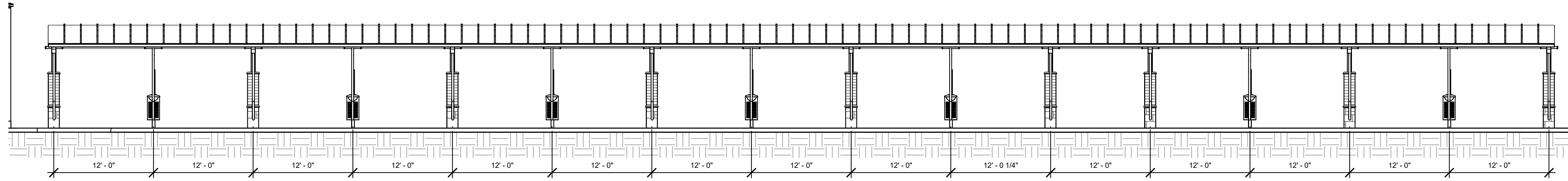


BUILDING AND MONUMENT SIGNS ARE UNDER SEPARATE PERMIT
 (Coordination required by GC and SUB-Contractor. Notify Architect of Any discrepancies)

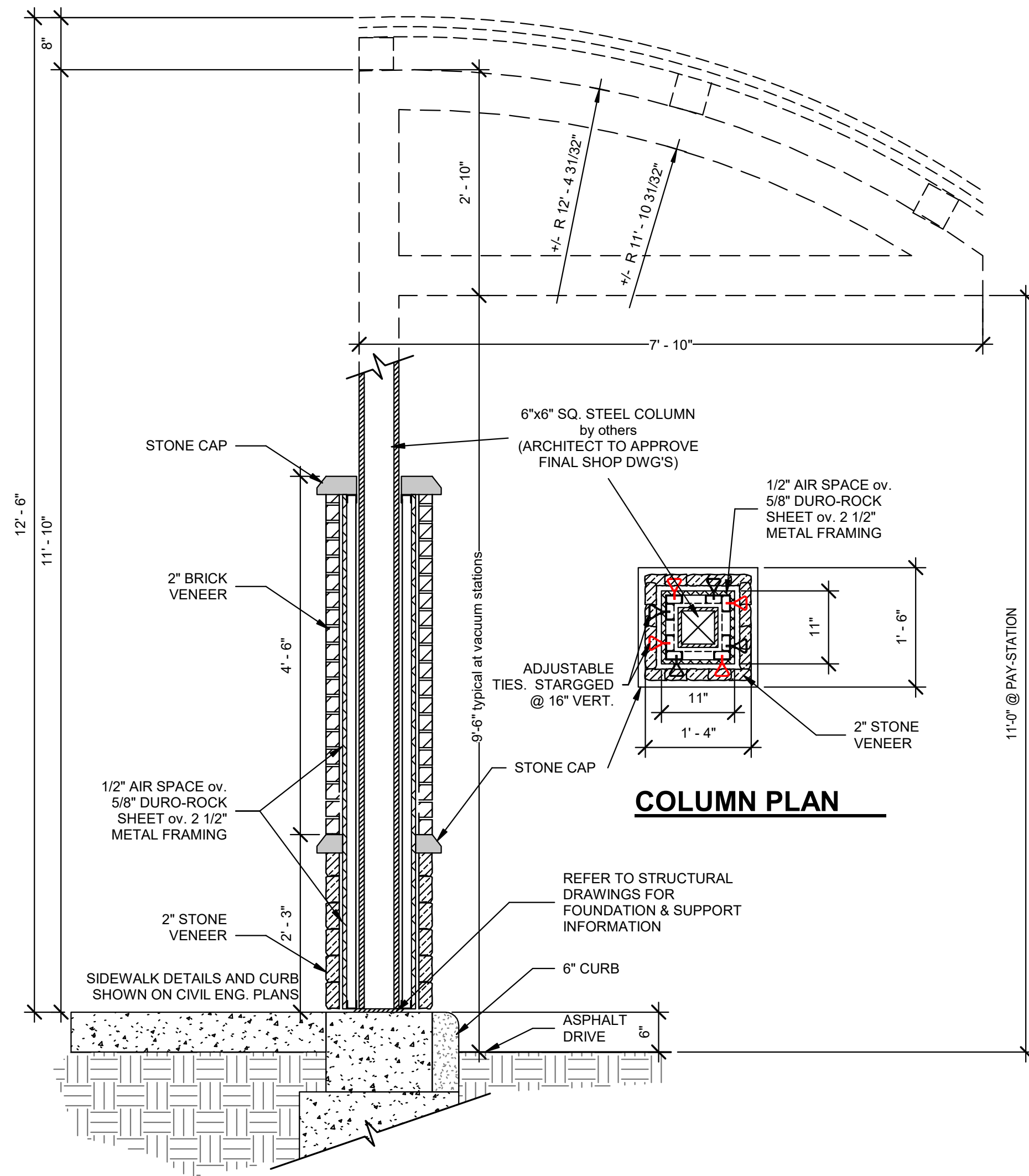




1 VACUUM CANOPY PLAN
SCALE: 1/8" = 1'-0"



2 Vacuum canopy elevation
SCALE: 1/8" = 1'-0"



3 VENEER COLUMN DETAIL
SCALE: 3/4" = 1'-0"

PROJECT # 2304
DATE: 02/15/23



Guido Corrado
DESIGN FIRM #: 184.003719-0001
EXP: 04.30.23

NEW AUTOMATED CARWASH FACILITY

525 & 505 SOUTH TAFT RD.
FORT COLLINS, CO 80521

ZONING REVIEW - NOT FOR CONSTRUCTION

NO.	DATE	DESCRIPTION
1	02.15.23	ZONING REVIEW
REVISIONS		
DRAWN BY: RAM		
APPROVED BY: GCN / MAM		
SCALE: AS NOTED		
DESCRIPTION: VACUUM STATION/CANOPY		
SHEET NO. A-7.1		



2304
02/15/23
Z-1

1 GENERAL VIEW LOOKING SOUTHWEST
Z-1 SCALE: 12" = 1'-0"

**New Automated
Car Wash Facility**
525 & 505 South Taft Rd.
Fort Collins CO

NERI
ARCHITECTS
6400 N NORTHWEST HWY
SUITE 4
CHICAGO IL 60631
TEL 847.825.9400



2304
02/15/23
Z-2

1 ARIAL VIEW LOOKING SOUTHWEST
Z-2 SCALE: 12" = 1'-0"

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Fort Collins CO

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CHICAGO IL 60631
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2304
02/15/23
Z-3

1 VIEW LOOKING NORTH
Z-3 SCALE: 12" = 1'-0"

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2304
02/15/23
Z-4

1 VIEW LOOKING SOUTHWEST
Z-4 SCALE: 12" = 1'-0"

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CHICAGO IL 60631
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2304

02/15/23

Z-5

1 VIEW LOOKING NORTHWEST
Z-5

SCALE: 12" = 1'-0"

**New Automated
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525 & 505 South Taft Rd.
Fort Collins CO

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CHICAGO IL 60631
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2304
02/15/23
Z-6

1
Z-6 VIEW LOOKING NORTHEAST
SCALE: 1/2" = 1'-0"

**New Automated
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525 & 505 South Taft Rd.
Fort Collins CO

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SUITE 4
CHICAGO IL 60631
TEL 847.825.9400



2304
02/15/23
Z-7

1 VIEW LOOKING SOUTHEAST
Z-7 SCALE: 12" = 1'-0"

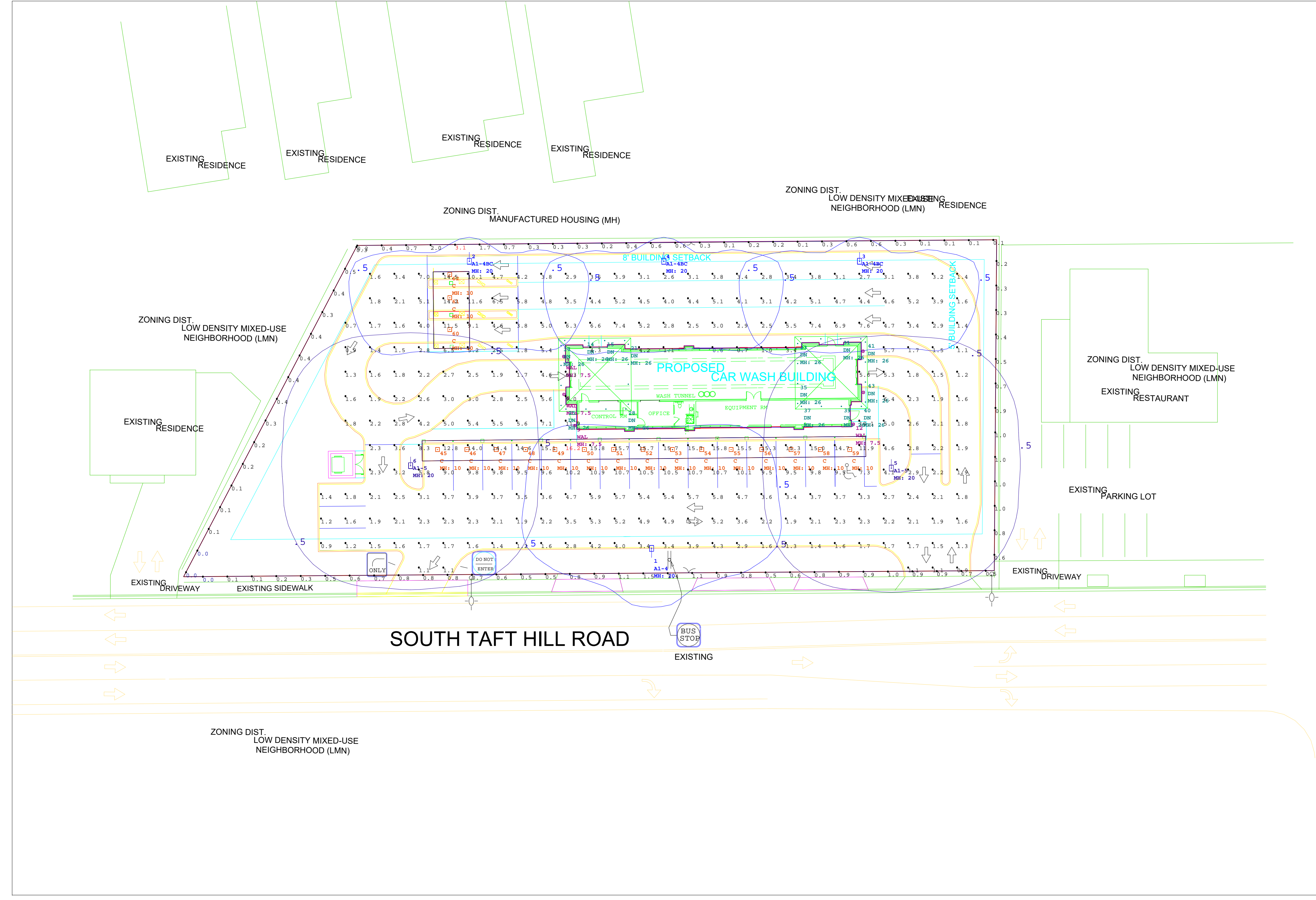
**New Automated
Car Wash Facility**
525 & 505 South Taft Rd.
Fort Collins CO

NERI
ARCHITECTS

6400 N NORTHWEST HWY
SUITE 4
CHICAGO IL 60631
TEL 847.825.9400

Symbol	Qty	Tag	Arrangement	Luminaire Lumens	Arr. Lum. Lumens	Luminaire Watts	Arr. Watts	LLF	Manufacturer	Description
→	1	A1-4	Single	17568	17568	133.1	133.1	0.900	EXO	ASL1-160L-135-3K7-4W-X-X
→	3	A1-4BC	Single	10916	10916	133.3	133.3	0.900	EXO	ASL1-160L-135-3K7-4W-X-X-BC-X
→	2	A1-5	Single	18030	18030	133.1	133.1	0.900	EXO	ASL1-160L-135-3K7-5QW-X-X-X
⊕	18	C	Single	4450	4450	30.405	30.405	0.900	BEACON	VSH-30-3K7-UNV
⊕	32	DN	Single	996	996	14.4	14.4	0.900	DALS Lighting Inc.	RGR4-CC-XX
⊕	6	WAL	GROUP	N.A.	2240	N.A.	14	0.450	FC Lighting	FCC612W-UNV-930-05-05L-X-D40-U40-LD

Label	CalcType	Units	Avg	Max	Min	Max/Min	Avg/Min	Description
PARKING & DRIVES	Illuminance	Fc	4.69	16.2	0.6	27.00	7.82	READINGS TAKEN @ GRADE LEVEL
PROPERTY LINE	Illuminance	Fc	0.57	3.1	0.0	N.A.	N.A.	READINGS TAKEN @ GRADE LEVEL
PAY CANOPY	Illuminance	Fc	10.34	14.5	5.2	2.79	1.99	READINGS TAKEN @ GRADE LEVEL
VACUUM CANOPY	Illuminance	Fc	14.96	16.2	11.9	1.36	1.26	READINGS TAKEN @ GRADE LEVEL



Not to Scale

PARKING LOT DESIGN GUIDE	MAINTAINED HORIZONTAL		MAINTAINED VERTICAL		MAXIMUM	
	AVERAGE (FC)	RANGE (FC)	AVERAGE (FC)	RANGE (FC)	AVG. MIN	MAX. MIN
PARKING (UNCOVERED) ZONE 3 (URBAN)	1.5	0.75 - 3	0.8	0.4 - 1.6	4:1	15:1
PARKING (UNCOVERED) ZONE 2 (SUBURBAN)	1	0.5 - 2	0.6	0.3 - 1.2	4:1	15:1
SAFETY (BUILDING EXTERIOR)	1	0.5 - 2	-	-	FOR SECURITY ISSUES, RAISE AVG. TO 3	

SIMPLIFIED RECOMMENDATIONS BASED ON IES 'THE LIGHTING HANDBOOK' 10TH EDITION AND IES RP-20-14. INDIVIDUAL APPLICATIONS WILL DETERMINE SPECIFIC RECOMMENDATIONS. PLEASE REFER TO THE MOST RECENT HANDBOOK FOR A MORE DETAILED EVALUATION AND ADDITIONAL APPLICATIONS. THESE RECOMMENDATIONS DO NOT SUPERCEDE ANY APPLICABLE CODES.

LumNo	Label	Mitg Ht	Orient	Tilt
1	ASL1-160L-135-3K7-4W	20	90	0
2	ASL1-160L-135-3K7-4W-BC	20	270	0
3	ASL1-160L-135-3K7-4W-BC	20	270	0
4	ASL1-160L-135-3K7-4W-BC	20	270	0
5	ASL1-160L-135-3K7-5QW	20	270	0
6	ASL1-160L-135-3K7-5QW	20	270	0
7	FCC612W-930-05-05L-D40-U40	7.5	295	0
8	FCC612W-930-05-05L-D40-U40	7.5	295	0
9	FCC612W-930-05-05L-D40-U40	7.5	295	0
10	FCC612W-930-05-05L-D40-U40	7.5	115	0
11	FCC612W-930-05-05L-D40-U40	7.5	115	0
12	FCC612W-930-05-05L-D40-U40	7.5	115	0
13	RGR4	26	90	0
14	RGR4	26	90	0
15	RGR4	26	90	0
16	RGR4	26	90	0
17	RGR4	26	180	0
18	RGR4	26	180	0
19	RGR4	26	180	0
20	RGR4	26	180	0
21	RGR4	26	180	0
22	RGR4	26	180	0
23	RGR4	26	180	0
24	RGR4	26	180	0
25	RGR4	26	90	0
26	RGR4	26	90	0
27	RGR4	26	90	0
28	RGR4	26	90	0
29	RGR4	26	90	0
30	RGR4	26	90	0
31	RGR4	26	90	0
32	RGR4	26	90	0
33	RGR4	26	180	0
34	RGR4	26	180	0
35	RGR4	26	180	0
36	RGR4	26	180	0
37	RGR4	26	90	0
38	RGR4	26	90	0
39	RGR4	26	90	0
40	RGR4	26	90	0
41	RGR4	26	180	0
42	RGR4	26	180	0
43	RGR4	26	180	0
44	RGR4	26	180	0
45	VSH-30-3K7	10	270	0
46	VSH-30-3K7	10	270	0
47	VSH-30-3K7	10	270	0
48	VSH-30-3K7	10	270	0
49	VSH-30-3K7	10	270	0
50	VSH-30-3K7	10	270	0
51	VSH-30-3K7	10	270	0
52	VSH-30-3K7	10	270	0
53	VSH-30-3K7	10	270	0
54	VSH-30-3K7	10	270	0
55	VSH-30-3K7	10	270	0
56	VSH-30-3K7	10	270	0
57	VSH-30-3K7	10	270	0
58	VSH-30-3K7	10	270	0
59	VSH-30-3K7	10	270	0
60	VSH-30-3K7	10	0	0
61	VSH-30-3K7	10	0	0
62	VSH-30-3K7	10	0	0

NOTES

PG-ENLIGHTEN IS NEITHER LICENSED NOR INSURED TO DETERMINE CODE COMPLIANCE. CODE COMPLIANCE REVIEW BY OTHERS.

ANY VARIANCE FROM REFLECTANCE VALUES, OBSTRUCTIONS, LIGHT LOSS FACTORS OR DIMENSIONAL DATA WILL AFFECT THE ACTUAL LIGHT LEVELS OBTAINED.

THIS ANALYSIS IS A MATHEMATICAL MODEL AND CAN BE ONLY AS ACCURATE AS IS PERMITTED BY THE THIRD-PARTY SOFTWARE AND THE IES STANDARDS USED.

FIXTURE TYPES AND QUANTITIES MAY CHANGE BASED ON UNKNOWN OBSTRUCTIONS OR FIELD CONDITIONS. THESE CHANGES MAY RESULT IN AN INCREASED QUANTITY OF FIXTURES.

FIXTURE TYPES AND QUANTITIES BASED ON PROVIDED LAYOUT AND DRAWINGS ARE FOR REFERENCE ONLY. TYPES AND QUANTITIES MAY CHANGE WITH FUTURE REVISIONS.

CALCULATION GRID VALUES 10'-0" O.C.



PROJECT NAME: **FORT COLLINS CO. CARWASH**

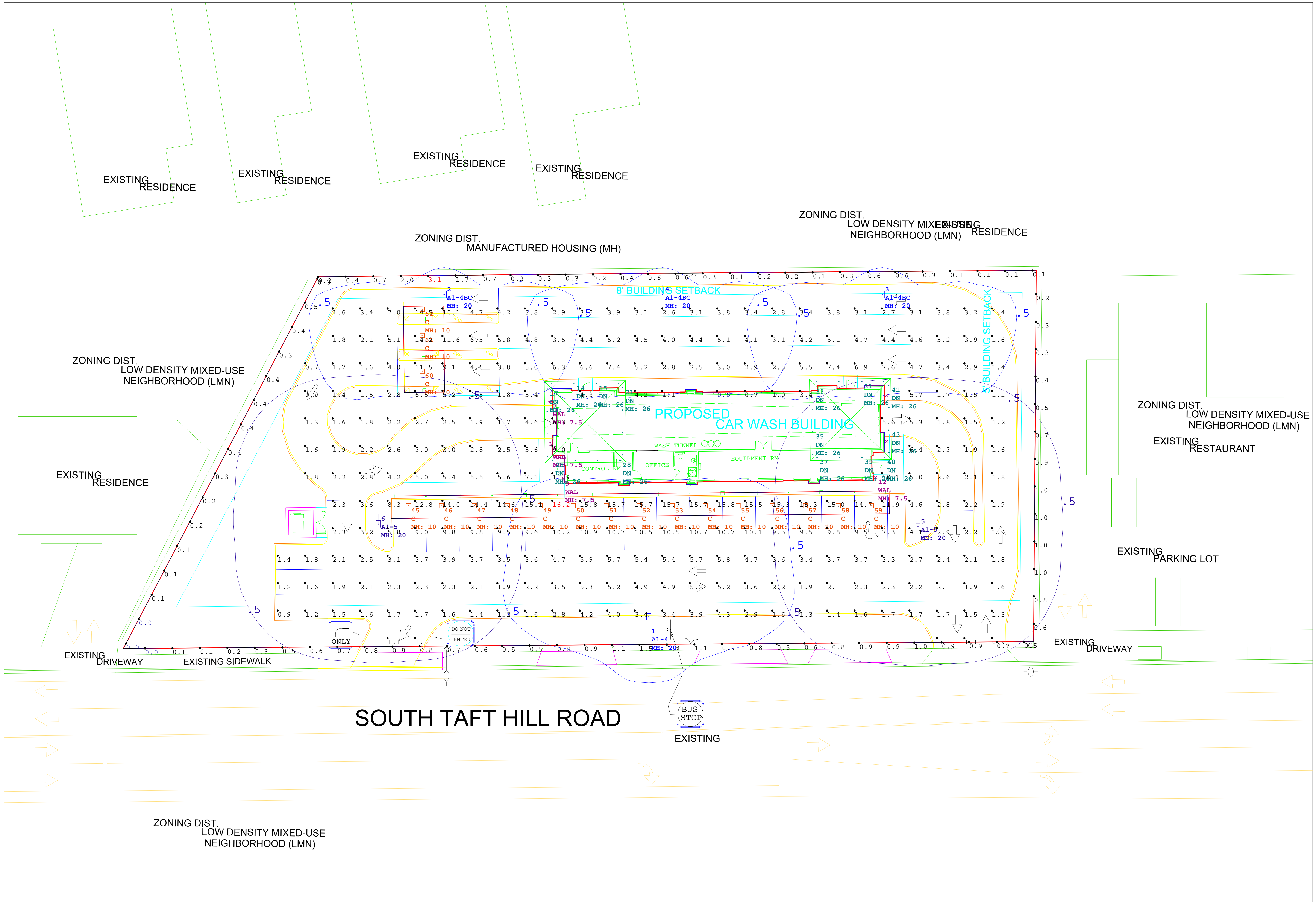
CLIENT NAME: **Michi Mho - NERI ARCHITECTS**

DRAWN BY: **Jose Saucedo**
 jose.saucedo@pg-enlighten.com
 847.956.1276

PG CONTACT: **Name**
 name@pg-enlighten.com
 847.228.1199

1	2	3
---	---	---

REVISIONS



Scale: 1 inch = 15 Ft.

Vanish

EDGE-LIT CANOPY

FEATURES

- Edge-Lit technology for even illumination
- Low profile 2.1" depth design virtually disappears into the canopy
- Illuminates without distraction and glare
- Pendant or surface mounted with ¾" conduit
- Universal retrofit solution for HID replacements for various sizes
- IP65 rating to keep water and insects out
- Cast Aluminum with integral heat sink to maintain optimal thermal performance for long LED life Cast aluminum



SPECIFICATIONS

CONSTRUCTION

- Die-cast aluminum, low profile housing
- New construction or retrofit solution
- Canopy and soffit applications
- Easy installation
- Driver and optical chamber serviceable from below canopy
- Powder coat finish
- Heat sink design to disperse heat away from fixture
- Suitable for wet locations

OPTICS

- Acrylic Lens
- Type V distribution
- Comfort lens for low glare
- Light Guide Edge-Lit technology

INSTALLATION

- Surface or pendant mounted
- Easy installation and serviceable below the canopy deck
- Hinge for hanging during service

ELECTRICAL

- Universal 120-277 , 347, 480 Input Voltage
- Power Factor > 0.9 at full load
- Total Harmonic Distortion < 20% at full load
- 10 kV Surge Protection
- 0-10 Volt Dimmable Driver
- Operating temperature: -40°C to +40°C

CERTIFICATIONS

- UL Certified
- DesignLights Consortium™ 5.1 qualified
- Wet Location Listed
- IP66
- DLC® (DesignLights Consortium Qualified), with some Premium Qualified configurations. Please refer to the DLC website for specific product qualifications at www.designlights.org

WARRANTY

- 5 year warranty
- See [HLI Standard Warranty](#) for additional information

ORDERING GUIDE

Example: VSH-85-5K7-UNV-WHS

CATALOG #

VSH					
Series	Size	Color Temp	Voltage	Finish	
VSH Vanish	30'	4K7	UNV Universal	BLT	Black Matte Textured
	55	5K7	347 347V	BLS	Black Gloss Smooth
	85		480 480V	DBT	Dark Bronze Matte Textured
	140			DBS	Dark Bronze Gloss Smooth
				GTT	Graphite Matte Textured
				LGS	Light Grey Gloss Smooth
				LGT	Light Grey Matte Textured
				PSS	Platinum Silver Smooth
				WHT	White Matte Textured
				WHS	White Gloss Smooth
				VGT	Verde Green Textured
				Color Option	
				CC	Custom Color

Notes:
1 Only available in Universal Voltage

KEY DATA	
Lumen Range	4,500 – 20,200
Wattage Range	30 – 140 Watts
Efficacy Range (LPW)	138 – 157
Reported Life (Hours)	>60,000

Vanish

EDGE-LIT CANOPY

PERFORMANCE DATA

Product	Lumens	B	U	G	LPW	CRI	CCT
VSH-30-4K7	4564	2	0	1	150	70	4000K
VSH-30-5K7	4793	2	0	1	157	70	5000K
VSH-55-4K7	8846	3	0	2	153	70	4000K
VSH-55-5K7	9069	3	0	2	157	70	5000K
VSH-85-4K7	13296	3	0	2	152	70	4000K
VSH-85-5K7	13666	3	0	2	157	70	5000K
VSH-140-4K7	19649	4	0	3	138	70	4000K
VSH-140-5K7	20196	4	0	3	142	70	5000K

Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment application and inherent performance balances of the electrical components.

PROJECTED LUMEN MAINTENANCE

Ambient Temperature	OPERATING HOURS					
	0	25,000	50,000	TM-21-11' L96 60,000	100,000	L70 (Hours)
25°C / 77°F	1.00	0.94	0.92	0.90	0.81	>170,000
40°C / 104°F	0.99	0.94	0.92	0.89	0.80	>160,000

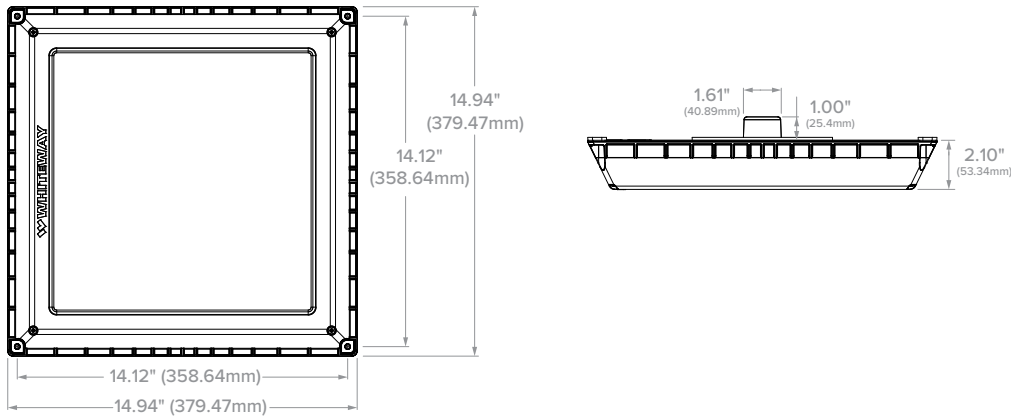
LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

Ambient Temperature		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98
50°C	122°F	0.97

Vanish

EDGE-LIT CANOPY

DIMENSIONS

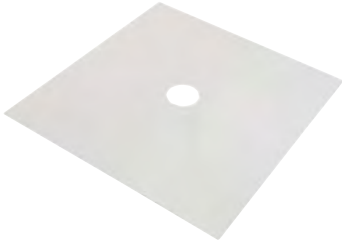


MOUNTING ACCESSORIES

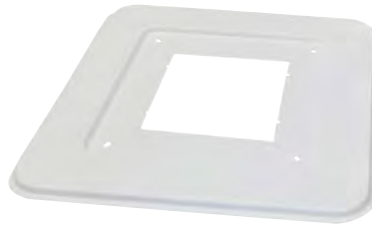
Accessories (order separately)

- 93133148** WHITEWAY 15 IN CVR PLT WHT VSH/GSY Retrofit cover plate for LSI Encore 15" square-replacement for 10" opening
- 93133149** WHITEWAY DECORATIVE CVR PLT VSH/GSY 26" Decorative Beauty Plate for Canopy Retrofits
- 93133151** WHITEWAY HID RETRFT KIT WHT VSH/GSY Universal HID retrofit kit (fits any square HID housing between 21" & 23" square.)
- 93133177** WHITEWAY STEM AND JUNCTION BOX

93133148

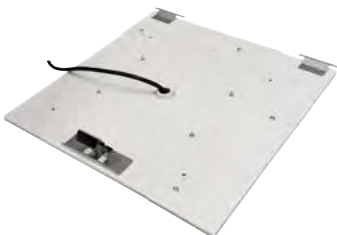


93133149



93133151

• Measure outside dimension of existing housing

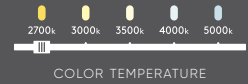


93133177



Smooth baffle, round

When choosing a recessed fixture, eliminating glare is a priority. The unique positioning of the LED module in this series of downlights will meet that important need.



Model	Size	Watts	Delivered lumens	LED lumens	CRI	Color °T	Voltage
RGR2-CC	2"	8 W	600 lm	750 lm	90	2700, 3000, 3500, 4000, 5000 K	120 V
RGR4-CC	4"	14 W	990 lm	1200 lm	90		120 V
RGR6-CC	6"	20 W	1600 lm	1900 lm	90		120 V

Specifications

Every fixture includes a junction box with integrated dimmable driver
 Can be daisy chained
 Superior LED performance and lifespan
 Regressed light source
 Minimal heat emission
 Aluminum construction
 Switch-selectable CCT: 2700K/3000 K/3500 K/4000 K/5000 K
 IC certification (suitable for direct contact with insulation)
 Air-tight certified as per ASTM E283-04
 40° beam angle
 Suitable for wet locations
 JA8 Certified
 Refer to website for dimmer compatibility
 Ideal operating temperature: -20° to 40° C
 5-year warranty

Finish

- **BK** Black
- **SN** Satin Nickel
- **WH** White

Accessories

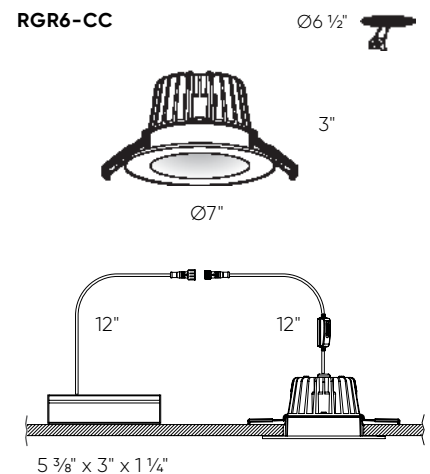
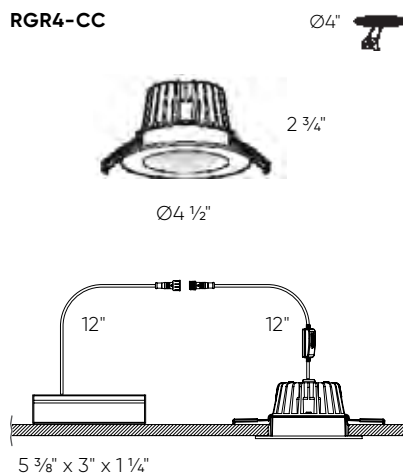
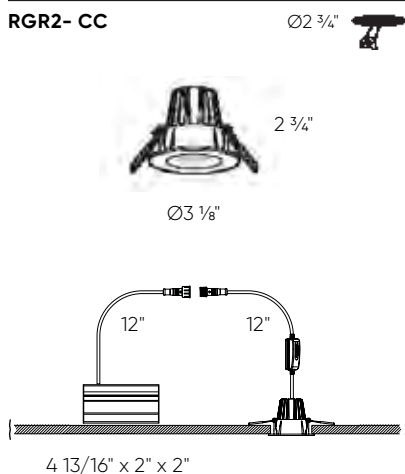
- RFP-UNI**
Universal rough-in plate
- RFP-23**
Rough-in plate for 2" and 3" models
- RFP-46**
Rough-in plate for 4" and 6" models

Order example

RGR4-CC-BK
 Dimmable RGR4-CC 4" round regressed LED fixture in a black finish

Note

Other Color °T and Finishes available, but may require MOQ's and longer lead times. Please contact your DALs representative for more information.



Date: _____

Type: _____

Fixture: _____

Project: _____

Approved: _____

FCC600 Up/Down or Up, Standard Drivers without Battery Backup

6" Round wall mount up/down or up only cylinder outdoor



FEATURES

- Up to 5000 lm, Up to 100 LPW
- Numerous mounting capabilities
- Clear anti-glare tempered glass lens (IK09)
- Multiple color finishes with AAMA 2605 option (10 yr. paint warranty)
- 0-10V 1% Dimming (Standard)
- 1.5G Vibration Tested
- 95 CRI with 2 SDCM

PERFORMANCE

Beam Spread: 15° | 25° | 40° | 50° | 72°
CCT Options: 2700K | 3000K | 3500K | 4000K
CRI: 93 CRI
Consistency: 2 SDCM (Fixture to Fixture)
Lumens: 5000 lm
Lifetime: > 70,000 hours / L70 or better

PHYSICAL

Mounting: Mounts directly to standard recessed junction box with wall mount or twist-lock canopy. Additional holes allow unit to be attached directly to mounting surface.

Ingress Protection: Continuous silicone gasket to seal out contaminants, IP65 rated for dry, damp or wet locations

Finish: Six stage chemical iron phosphate conversion pre-treatment. Polyester powder coat finish, 18 µm Min., 5000hr salt spray test (ASTM B117) compliant with Florida / AAMA 2604 specification. AAMA 2605 optional w/ 10 yr. paint warranty.

Warranty: 5-Year limited warranty (refer to website for details)

Housing: Heavy-walled, extruded aluminum housing with high pressure die-cast lens ring and cap with stainless steel hardware.

Lens: IK09 impact compliant, clear anti-glare tempered glass

Vibration Resistance: Compliant with 1.5G ANSI C136.31, Seismic rated AC-156

Weight: 8-12 lbs (Depending on Length)

Operating Temperature: -22°F to 122°F (-30°C to 50°C)

ELECTRICAL

Voltage: Universal 120–277V AC standard, 347V optional

Power Supply: Integral Class II, electronic high-power factor >.90, THD < 20%, FCC Title 47 Part 15 Class A. EldoLED & Lutron optional

Power Consumption: Up to 53W (5000 lm)

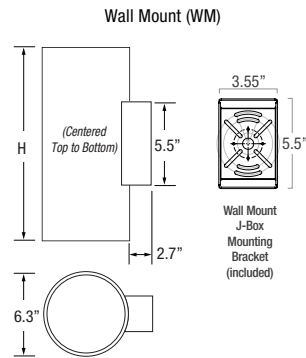
Dimming: Standard: 0-10V, 1% Dimming, Optional: ELV, TRIAC, dim to off, DMX, DALI

Certification: CEC Title 24 - JA8 Compliant (93 CRI Only)

Standards: cETLus Listed, CE, NOM, and RoHS Compliant. Wet location listed for wall or ceiling mount IP65 Ingress protection. 1.5G (ANSI C136.31) Vibration resistance rated. IK09 (IEC6226) Impact resistance rated. IESNA LM79 Photometric testing by NVLAP accredited test lab. IESNA LM80 LED testing by NVLAP accredited test lab. IESNA TM21 Luminaire lumen depreciation projection to >70,000hrs.

PHYSICAL DIMENSIONS

Fixture	Height (H)
FCC610W	10.95" Height (1 Integral Driver Only)
FCC612W	12.95" Height (1 Integral Driver Only)
FCC614W	14.95" Height (1 Integral Driver Only)
FCC616W	16.95" Height (1 Integral Driver Only)
FCC618W	18.95" Height
FCC620W	20.95" Height
	(All above are Wall Mount Standard)



Due to continuous development and improvements, specifications are subject to change without notice. FC Lighting, Inc. reserves the right to change lab test details or specifications without notice. Product use certifies agreement to FC Lighting, Inc. terms and conditions. All stated specifications have a tolerance of +/- 7%.

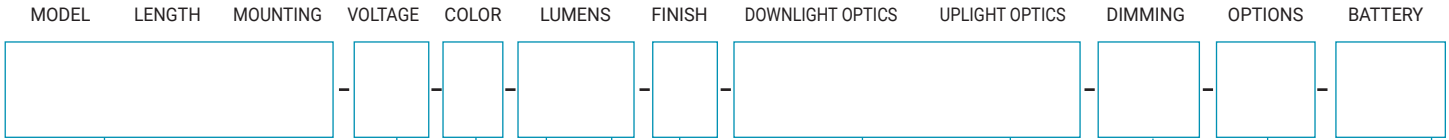
Date: _____
 Type: _____
 Fixture: _____
 Project: _____

Approved: _____

FCC600 Up/Down or Up, Standard Drivers without Battery Backup

PRODUCT CODE

EXAMPLE: FCC610W-UNV-927-0505L-BKE-D15U15-ET



MODEL	LENGTH
FCC610W	10.95" Height (1 Integral Driver Only)
FCC612W	12.95" Height (1 Integral Driver Only)
FCC614W	14.95" Height (1 Integral Driver Only)
FCC616W	16.95" Height (1 Integral Driver Only)
FCC618W	18.95" Height
FCC620W	20.95" Height
(All above are Wall Mount Standard)	

DOWN LUMENS (nominal) UP LUMENS		
NO	No Light Option	
05	500 lm	05L
10	1000 lm	10L
15	1500 lm	15L
20	2000 lm	20L
25	2500 lm	25L
30	3000 lm	30L
35	3500 lm	35L
40	4000 lm	40L
45	4500 lm	45L
50	5000 lm	50L

DOWN LIGHT OPTICS (nominal)	UPLIGHT OPTICS
D15	Spot (15°) (15L Max)
D25	Narrow Flood (25°)
D40	Mid Flood (40°)
D50	Flood (50°)
D72	Wide Flood (72°)

WITH SOFT FIELD LENS (Below)		
D15S	Spot (15°) (15L Max)	U15S
D25S	Narrow Flood (25°)	U25S
D40S	Mid Flood (40°)	U40S
D50S	Flood (50°)	U50S
D72S	Wide Flood (72°)	U72S

VOLTAGE
UNV Universal 120-277 Volt AC
347V 347 Volt AC

COLOR
927 (93CRI) 2700K
930 (93CRI) 3000K
935 (93CRI) 3500K
940 (93CRI) 4000K

FINISH
BKE Black (AAMA 2604)
BRE Bronze (AAMA 2604)
SLE Silver (AAMA 2604)
WHE White (AAMA 2604)
CCE Custom Color (AAMA 2604)
BKED Black (AAMA 2605)
BRED Bronze (AAMA 2605)
SLED Silver (AAMA 2605)
WHED White (AAMA 2605)
CCED Custom Color (AAMA 2605)

DIMMING
ET ELV or TRIAC Driver (120V Phase Dimming w/ UNV Driver) (20L-45L Only)
LD 0-10V Dimming, 1% (Standard)
ET2 ELV or TRIAC Drivers (Qty. 2) (120V Phase Dimming w/ UNV Drivers) (20L-45L Only)
LD2 0-10V Dimming, 1% (Qty. 2)

OPTIONS
CV Cut-Off Visor (Down Only)

BATTERY
N/A (Leave Blank)

(50L Max Total output) (Standard Lumen Output Split 50% Up / 50% Down) (Additional driver needed for unequal output selections)

FCC600 Up/Down or Up, Standard Drivers without Battery Backup

LUMENS nominal

Model	Watts	940
FCC6	5W (Min)	500 lm (Min)
	53W (Max)	5000 lm (Max)

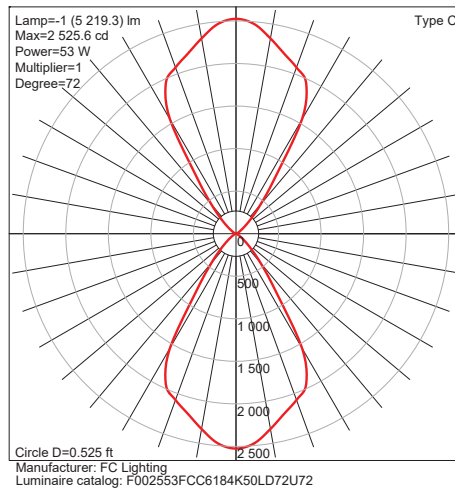
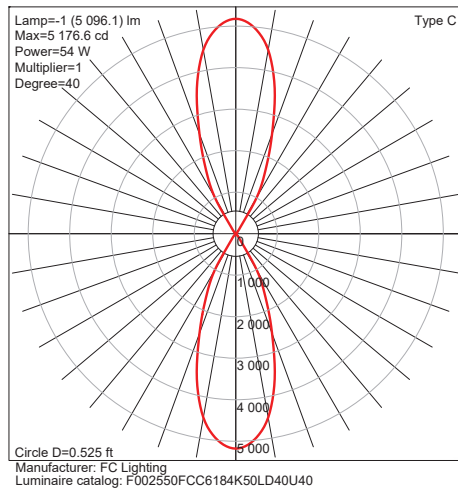
IES Multiplier	
Color	Multiplier
927	0.93
930	0.97
935	0.99
940	1.00

*83CRI@1.15 Consult factory.

TRIAC & ELV Approved Dimmer List	
Manufacturer	Manufacturer Part Number
Lutron	Glyder GLV-600
	Diva DVLV-600P
	Diva DV-600P
	Diva DVELV-600P(303)
	Maestro MALV-600
	Nova T NT-1000
	Nova T NTELV-600
Leviton	Skylark SLV-600P
	RadioRA2-10ND
	SureSlide 6633 Illumatech IPE04

0-10V Approved Dimmer List	
Manufacturer	Manufacturer Part Number
Lutron	Diva DVSTV-XX
	Diva DVSTV-453PH-WH1
Leviton	Illumatech 010-IP710-DLZ

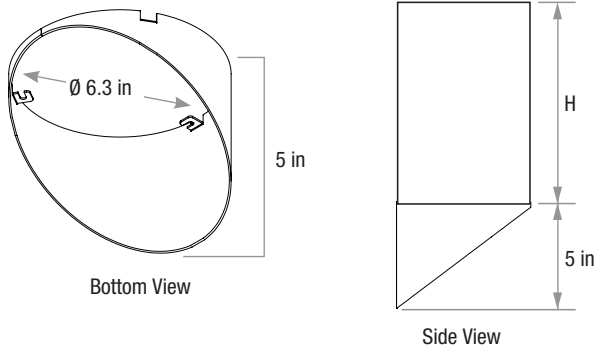
PHOTOMETRICS



FCC600 Up/Down or Up, Standard Drivers without Battery Backup

MORE DIMENSIONS

Cutt-Off Visor (CV) (Down Only)



DATE: _____ LOCATION: _____
 TYPE: _____ PROJECT: _____
 CATALOG #: _____

AIRO Micro Strike

AREA/SITE/ROAD LIGHTER

FEATURES

- Compact sleek design with multiple LED configurations and simple installation
- The Airo includes a universal mounting block for easy pole installation or mast arm option for 2-3/8 ft OD roadway brackets
- Capable of replacing up to 1000w HID luminaires
- Micro Strike optical distributions of Type 2, 3, 4W or 5QW
- Tool-less entry option for easy installation and maintenance
- 1.5G rated for high vibration applications including bridges and overpasses



RELATED PRODUCTS

- [RAR1 Ratio](#)
- [RAR2 Ratio](#)
- [Cimarron LED](#)

CONTROL TECHNOLOGY



SPECIFICATIONS

CONSTRUCTION

- Die-cast housing with hidden vertical heat fins that are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with powder coat paint finish
- Separate optical and electrical compartment for improved thermal management and optimum component operation
- TGIC thermoset polyester powder paint finish applied at nominal 2.5 mil thickness

OPTICS

- Entire optical aperture illuminates to create a larger luminous surface area resulting in a low glare appearance without sacrificing optical performance
- **Premium engineered individual acrylic lenses deliver IES Type 2, 3, 4W and 5QW distributions**
- Lens distributions are field rotatable (in 90° increments) or exchangeable for job site fine-tuning
- 3000K, 4000K, or 5000K (70 CRI) CCT
- 80, 160, or 320 midpower LEDs
- 3000K, 4000K or 5000K (70 CRI) CCT
- **Zero uplight at 0 degrees of tilt**
- Field rotatable optics

INSTALLATION

- Tool-less entry to wiring/driver compartment optional
- Universal mounting block works with #2 drill pattern
- Fixture ships with slotted mounting block to accommodate wide range of drill patterns for easy retrofit opportunities
- Mast arm fitter accessory or option available for 2-3/8" OD brackets with vertical tilt of +3°, 0° or -3°

ELECTRICAL

- Universal 120-277 VAC or 347-480 VAC input voltage, 50/60 Hz
- Ambient operating temperature -40° C to 40° C
- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 20KA and 10KV protection meeting ANSI/IEEE C62.41.2 Category C High and Surge Location Category C3; Automatically takes fixture off-line for protection when device is consumed

CONTROLS

- Photo control, occupancy sensor and wireless available for complete on/off and dimming control
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)
- Dimming Drivers are standard and dimming leads are extended out of the luminaire unless control options require connection to the dimming leads. Must specify if wiring leads are to be greater than the 6
- SiteSync™ wireless control system is available via 7-pin See ordering information and details at: www.hubbellighting.com/sitesync
- NX Distributed Intelligence™ available with in fixture wireless control module, features dimming and occupancy sensor

CONTROLS (CONTINUED)

- wiSCAPE® available with in fixture wireless control module, features dimming and occupancy sensor via 7-pin
- Please consult brand or sales representative when combining control and electrical options as some combinations may not operate as anticipated depending on your application

CERTIFICATIONS

- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40°C ambient temperatures
- DLC (DesignLights Consortium Qualified), with some Premium Qualified configurations. Please refer to the DLC website for specific product qualifications at www.designlights.org
- 1.5G rated for ANSI C136.31 high vibration applications
- IP65 optical assembly
- Meets IDA recommendations using 3K CCT configuration at 0 degrees of tilt
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 04/23/2020. See [Buy American Solutions](#)

WARRANTY

- 5 Year warranty
- See [HLI Standard Warranty](#) for additional information

KEY DATA	
Lumen Range	3,200–36,000
Wattage Range	25–255
Efficacy Range (LPW)	118–148
Weight lbs. (kg)	14.5–17.5 (6.6–8.0)

AIRO Micro Strike

AREA/SITE/ROAD LIGHTER

ORDERING GUIDE

Example: ASL1-80L-50-3K7-2-UNV-ASQU-BLT-7PRMD-40F

CATALOG #

ORDERING INFORMATION

Series	# LEDs	CCT/CRI	Distribution	Rotation/Orientation	Voltage	Mounting
ASL1 ASL Microstrike Series	80L-25 3,000 lm	3K7 3000K, 70 CRI	2 Type II	L Optic rotation left	UNV Universal 120-277V	ASQU Arm Square w/ Universal Mount
	80L-39 4,500 lm	4K7 4000K, 70 CRI	3 Type III	R Optic rotation right	120 120V	A3 AS with 3.5-4.13" OD RPA3 & UM
	80L-50 6,000 lm	5K7 5000K, 70 CRI	4W Type 4W		208 208V	A4 AS with 4.18-5.25" OD RPA4 & U
	160L-70 9,000 lm		5QW Type 5QW		240 240V	A5 AS with 5.5-6.5" OD RPA5 & UM
	160L-100 12,000 lm				277 277V	MAF Mast Arm Fitter for 2-3/8" OD
	160L-115 15,000 lm				347 347V	
	160L-135 18,000 lm				480 480V	
ASL2 ASL Microstrike Series	320L-145 21,000 lm					
	320L-170 24,000 lm					
	320L-185 27,000 lm					
	320L-210 30,000 lm					
	320L-235 33,000 lm					
	320L-255 35,000 lm					

Control Options Network	Options	Color
SWP^{1,2} SiteSync pre-commissioned	F³ Fusing	BLT Black Matte Textured
SWPM^{1,2} SiteSync wireless pre-commissioned w/ motion detection	BC Backlight Control	BLS Black Gloss Smooth
NXSPW14F¹ NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, 14' (use white for WH, black for DB, GT, TT, gray for LG, PS)	TB⁴ Terminal Block	DBT Dark Bronze Matte Textured
NXSPW30F¹ NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, 30' (use white for WH, black for DB, GT, TT, gray for LG, PS)	TE Toolless Entry	DBS Dark Bronze Gloss Smooth
NXSP14F¹ NX, PIR Occupancy Sensor, Dimming Daylight Harvesting, 14' (use white for WH, black for DB, GT, TT, gray for LG, PS)	SSF Stainless Steel Fasteners	GTT Graphite Matte Textured
NXSP30F¹ NX, PIR Occupancy Sensor, Dimming Daylight Harvesting, 30' (use white for WH, black for DB, GT, TT, gray for LG, PS)		LGS Light Grey Gloss Smooth
NXWE¹ NX Wireless Enabled (module + radio)		LGT Light Grey Matte Textured
Stand Alone Sensors		PSS Platinum Silver Smooth
SCP-8F^{5,6} Remote control programmable line voltage sensor		WHT White Matte Textured
SCP-40F^{5,6} Remote control programmable line voltage sensor		WHS White Gloss Smooth
Control Options Other		VGT Verde Green Textured
7PR 7 Pin Receptacle		Color Option
7PR-SC 7 Pin Receptacle with shorting cap		CC Custom Color
7PR-MD8F 7 pin receptacle with low voltage sensor at 8' mounting for external control accessory		
7PR-MD40F 7 pin receptacle with low voltage sensor at 40' mounting for external control accessory		
7PR-TL 7 Pin Receptacle with Photocontrol		
ADD AutoDim timer based dimming		
ADT AutoDim time of day dimming		
Sensors		
BTS_F Bluetooth Programmable, PIR Occupancy/Daylight Sensor, 360° lens ⁷		
BTSO_F Bluetooth Programmable, PIR Occupancy/Daylight Sensor, 360° lens, up to 12' mounting height ⁸		

Notes:

- Not compatible with 80L configurations
- Not compatible with 480V configurations
- Must specify voltage
- Not available with a combination or 347/480 and fusing
- Must specify voltage, 120V or 277V only
- Order at least one SPC-REMOTE per project location to program and control the occupancy sensor
- Replace "_" with "14" for up to 14' mounting height, "40F" for 15-40' mounting height
- Replace "_" with "12" for up to 12' mounting height

AIRO Micro Strike

AREA/SITE/ROAD LIGHTER

CONTROL ACCESSORIES (ORDERED SEPARATELY)

Catalog Number	Description
<input type="checkbox"/> SCP-Remote	Remote Control for SCP/_F option. Order at least one per project to program and control the occupancy sensor
<input type="checkbox"/> SWUSB	SiteSync™ Software on USB
<input type="checkbox"/> SWTAB	SiteSync™ Windows Tablet
<input type="checkbox"/> SWBRG	SiteSync™ Wireless Bridge Node
<input type="checkbox"/> SWFC	SiteSync™ Field Commission Serve
<input type="checkbox"/> SW7PR	SiteSync™ on fixture module via 7PR
<input type="checkbox"/> WIR-RME-L	wiSCAPE External Fixture Module
<input type="checkbox"/> NXOFM-1R1D-UNV	NX Wireless, Daylight Harvesting, BLE, 7 pin twisted lock

Notes:

- * When ordering SiteSync at least one of these two interface options must be ordered per project
- + Available as a SiteSync retrofit solution for fixtures with an existing 7pin receptacle

ACCESSORIES (ORDERED SEPARATELY)

Catalog Number	Description
<input type="checkbox"/> ASL1-HSS-90-B-XXX ¹	House Side Shield Back 90 deg
<input type="checkbox"/> ASL1-HSS-90-F-XXX ¹	House Side Shield Front 90 deg
<input type="checkbox"/> ASL1-HSS-90-S-XXX ¹	House Side Shield Side 90 deg
<input type="checkbox"/> ASL1-HSS-270-BSS-XXX ¹	House Side Shield Back, Side & Side 270 deg
<input type="checkbox"/> ASL1-HSS-270-FSS-XXX ¹	House Side Shield Front, Side & Side 270 deg
<input type="checkbox"/> ASL1-HSS-270-FSB-XXX ¹	House Side Shield Front, Side & Back 270 deg
<input type="checkbox"/> ASL1-HSS-360-XXX ¹	House Side Shield 360 deg
<input type="checkbox"/> ASL2-HSS-90-B-XXX ¹	House Side Shield Back 90 deg
<input type="checkbox"/> ASL2-HSS-90-F-XXX ¹	House Side Shield Front 90 deg
<input type="checkbox"/> ASL2-HSS-90-S-XXX ¹	House Side Shield Side 90 deg
<input type="checkbox"/> ASL2-HSS-270-BSS-XXX ¹	House Side Shield Back, Side & Side 270 deg
<input type="checkbox"/> ASL2-HSS-270-FSS-XXX ¹	House Side Shield Front, Side & Side 270 deg
<input type="checkbox"/> ASL2-HSS-270-FSB-XXX ¹	House Side Shield Front, Side & Back 270 deg
<input type="checkbox"/> ASL2-HSS-360-XXX ¹	House Side Shield 360 deg
<input type="checkbox"/> ASL-MAF	Mast arm kit with wildlife shield for mounting on 2 3/8" OD arms
<input type="checkbox"/> SETA-XX ¹	Square pole tenon adapter (4 at 90 degrees) (2 3/8" OD tenon)
<input type="checkbox"/> RETA-XX ¹	Round pole tenon adapter (4 at 90 degrees) (2 3/8" OD tenon), requires CL1S-RPA4-ACC-XX for each luminaire
<input type="checkbox"/> RARBC80L	Backlight Control 80L
<input type="checkbox"/> RARBC160L	Backlight Control 160L
<input type="checkbox"/> RARBC320L	Backlight Control 320L
<input type="checkbox"/> RARBC480L	Backlight Control 480L
<input type="checkbox"/> CL1S-RPA4-ACC-XX ¹	Round Pole Adapter (* denotes pole diameter; 3 = 3 1/4" - 3 3/4"; 4* = 3 7/8" - 6")
<input type="checkbox"/> ASL-ARMMTG-XX ¹	Arm mounting kit for side of pole attachment
<input type="checkbox"/> WB-AREA-XX ¹	Wall bracket, Compatible with standard arm mount option
<input type="checkbox"/> ASL-MAF	Mast arm kit with wildlife shield for mounting on 2 3/8" OD arms

¹ Replace XX or XXX with color choice, eg.: DB for Dark Bronze or BLT for Black Matte Textured

AIRO Micro Strike

AREA/SITE/ROAD LIGHTER

PERFORMANCE DATA

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 70 CRI)				
				Lumens	LPW ¹	B	U	G	Lumens	LPW ¹	B	U	G	Lumens	LPW ¹	B	U	G
ASL1	25	25.4	2	3430	135	2	0	2	3413	134	2	0	2	3225	127	2	0	2
			3	3465	136	2	0	2	3448	136	2	0	2	3259	128	2	0	2
			4W	3401	134	2	0	3	3384	133	2	0	3	3198	126	2	0	3
			5QW	3483	137	4	0	2	3466	136	4	0	2	3274	129	4	0	2
	39	38.0	2	5237	138	3	0	3	5211	137	3	0	3	4924	130	3	0	3
			3	5292	139	2	0	2	5265	139	2	0	2	4976	131	2	0	2
			4W	5193	137	2	0	3	5168	136	2	0	3	4883	129	2	0	3
			5QW	5318	140	4	0	2	5292	139	4	0	2	4999	132	4	0	2
	50	49.7	2	6294	127	2	0	2	6263	126	2	0	2	5918	119	2	0	2
			3	6360	128	2	0	2	6328	127	2	0	2	5980	120	2	0	2
			4W	6242	126	2	0	3	6211	125	2	0	3	5869	118	2	0	3
			5QW	6392	129	4	0	2	6360	128	4	0	2	6008	121	4	0	2
	70	68.4	2	9461	138	3	0	3	9414	138	3	0	3	8897	130	3	0	3
			3	9560	140	2	0	2	9513	139	2	0	2	8989	131	2	0	2
			4W	9383	137	2	0	3	9336	136	2	0	3	8822	129	2	0	3
			5QW	9608	140	4	0	2	9560	140	4	0	2	9032	132	4	0	2
	100	88.0	2	11945	136	2	0	2	11886	135	2	0	2	11232	128	2	0	2
			3	12070	137	2	0	2	12010	136	2	0	2	11349	129	2	0	2
			4W	11846	135	2	0	3	11787	134	2	0	3	11139	127	2	0	3
			5QW	12131	138	4	0	2	12070	137	4	0	2	11403	130	4	0	2
	115	109.7	2	15683	143	2	0	2	15605	142	2	0	2	14977	137	2	0	2
			3	15486	141	2	0	2	15411	140	2	0	2	14819	135	2	0	2
			4W	15305	140	2	0	3	15232	139	2	0	3	14646	134	2	0	3
			5QW	15732	143	4	0	2	15653	143	4	0	2	15024	137	4	0	2
	135	133.3	2	18089	136	3	0	3	17999	135	3	0	3	17275	130	3	0	3
			3	17861	134	2	0	2	17776	133	2	0	2	17092	128	2	0	2
			4W	17653	132	2	0	3	17569	132	2	0	3	16893	127	2	0	3
			5QW	18155	136	4	0	2	18064	136	4	0	2	17338	130	4	0	2

ASL2 Performance Data on next page

¹ VAC input Lumen values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations. Actual performance may differ as a result of end-user environment and application.

AIRO Micro Strike

AREA/SITE/ROAD LIGHTER

PERFORMANCE DATA

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 70 CRI)				
				Lumens	LPW ¹	B	U	G	Lumens	LPW ¹	B	U	G	Lumens	LPW ¹	B	U	G
ASL2	145	143.0	2	21007	147	3	0	4	20902	146	3	0	4	20061	140	3	0	4
			3	20842	146	3	0	4	20738	145	3	0	4	19904	139	3	0	4
			4W	20595	144	3	0	5	20492	143	3	0	5	19668	138	3	0	5
			5QW	21130	148	5	0	4	21024	147	5	0	4	20179	141	5	0	4
	170	168.0	2	24447	146	3	0	4	24325	145	3	0	4	23347	139	3	0	4
			3	24256	144	3	0	4	24134	144	3	0	4	23164	138	3	0	4
			4W	23968	143	3	0	5	23848	142	3	0	5	22889	136	3	0	5
			5QW	24591	146	5	0	4	24468	146	5	0	4	23484	140	5	0	4
	185	185.0	2	26651	144	4	0	5	26518	143	4	0	5	25452	138	4	0	5
			3	26442	143	3	0	4	26310	142	3	0	4	25252	136	3	0	4
			4W	26129	141	4	0	5	25998	141	4	0	5	24953	135	4	0	5
			5QW	26808	145	5	0	5	26674	144	5	0	5	25602	138	5	0	5
	210	210.0	2	29880	142	3	0	4	29731	142	3	0	4	28535	136	3	0	4
			3	29646	141	3	0	4	29497	140	3	0	4	28312	135	3	0	4
			4W	29294	139	3	0	5	29148	139	3	0	5	27976	133	3	0	5
			5QW	30056	143	5	0	4	29905	142	5	0	4	28703	137	5	0	4
	235	235.0	2	32959	140	3	0	4	32794	140	3	0	4	31475	134	3	0	4
			3	32700	139	3	0	4	32537	138	3	0	4	31229	133	3	0	4
			4W	32312	137	3	0	5	32151	137	3	0	5	30858	131	3	0	5
			5QW	33152	141	5	0	4	32987	140	5	0	4	31661	135	5	0	4
255	261.2	2	36218	139	4	0	5	36037	138	4	0	5	34588	132	4	0	5	
		3	35934	138	3	0	4	35754	137	3	0	4	34317	131	3	0	4	
		4W	35508	136	4	0	5	35330	135	4	0	5	33910	130	4	0	5	
		5QW	36431	139	5	0	5	36249	139	5	0	5	34792	133	5	0	5	

¹ VAC input Lumen values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations. Actual performance may differ as a result of end-user environment and application.

AIRO Micro Strike

AREA/SITE/ROAD LIGHTER

ELECTRICAL DATA

Family	Nominal Wattage	Input Voltage (Volts)	Current (AMPS)	System Power (Watts)
AIRO (ASL1)	25	120	0.21	25.4
		208	0.12	
		240	0.11	
		277	0.09	
		347	0.07	
		480	0.05	
	39	120	0.32	38
		208	0.18	
		240	0.16	
		277	0.14	
		347	0.11	
		480	0.08	
	50	120	0.41	49.7
		208	0.24	
		240	0.21	
		277	0.18	
		347	0.14	
		480	0.10	
	70	120	0.57	68.4
		208	0.33	
		240	0.29	
		277	0.25	
		347	0.20	
		480	0.14	
	100	120	0.73	88
		208	0.42	
		240	0.37	
		277	0.32	
		347	0.25	
		480	0.18	
115	120	0.91	109.7	
	208	0.53		
	240	0.46		
	277	0.40		
	347	0.32		
	480	0.23		
135	120	1.11	133.3	
	208	0.64		
	240	0.56		
	277	0.48		
	347	0.38		
	480	0.28		
AIRO (ASL2) Next Page				

AIRO Micro Strike

AREA/SITE/ROAD LIGHTER

ELECTRICAL DATA (CONT'D)

Family	Nominal Wattage	Input Voltage (Volts)	Current (AMPS)	System Power (Watts)
AIRO (ASL2)	145	120	1.19	143.0
		208	0.69	
		240	0.60	
		277	0.52	
		347	0.41	
		480	0.30	
	170	120	1.40	168.0
		208	0.81	
		240	0.70	
		277	0.61	
		347	0.48	
		480	0.35	
	185	120	1.54	185.0
		208	0.89	
		240	0.77	
		277	0.67	
		347	0.53	
		480	0.39	
	210	120	1.75	210.0
		208	1.01	
		240	0.88	
		277	0.76	
		347	0.61	
		480	0.44	
	235	120	1.96	235.0
		208	1.13	
		240	0.98	
		277	0.85	
347		0.68		
480		0.49		
255	120	2.18	261.2	
	208	1.26		
	240	1.09		
	277	0.94		
	347	0.75		
	480	0.54		

AIRO Micro Strike

AREA/SITE/ROAD LIGHTER

PROJECTED LUMEN MAINTENANCE

Ambient Temperature	OPERATING HOURS					
	0	25,000	TM-21-11' L96 60,000	50,000	100,000	L70 (Hours)
25°C / 77°F	1.00	0.97	0.96	0.95	0.91	408,000
40°C / 104°F	0.99	0.96	0.95	0.94	0.89	356,000

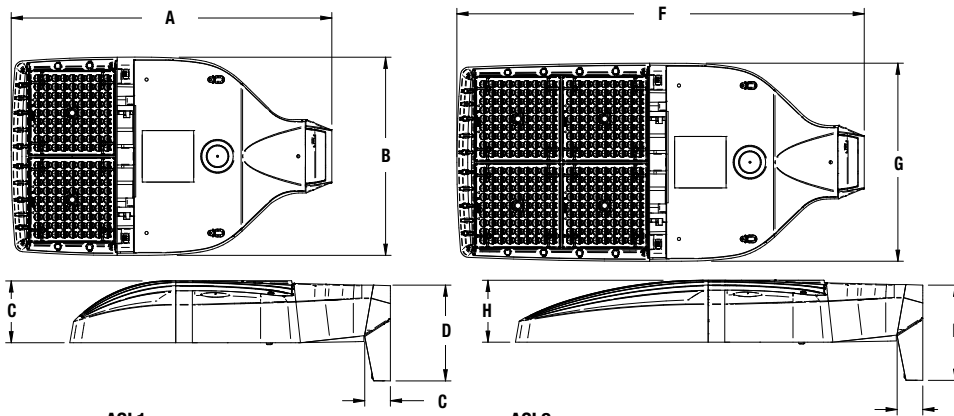
1. Projected per IESNA TM-21-11 (* Cree XP-L, 2100mA, 105°C Ts, 6,000hrs)

LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

Ambient Temperature		Lumen Multiplier
0° C	32° F	1.06
10° C	50° F	1.03
20° C	68° F	1.01
25° C	77° F	1.00
30° C	86° F	0.99
40° C	104° F	0.97
50° C	122° F	0.94

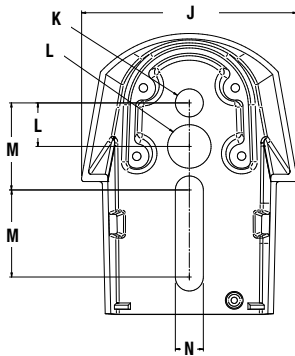
Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

DIMENSIONS



Weight	
ASL1	14.47 lbs (6.56 kgs)
ASL2	17.47 lbs (7.92 kgs)

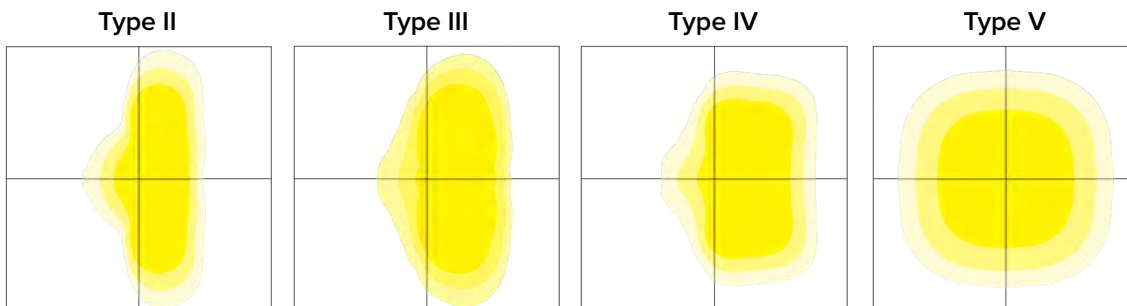
A	B	C	D	E	F	G	H	I	ASL1 EPA@0°	ASL2 EPA@0°	ASL1 w/ HSS	ASL2 w/ HSS
18.9"	11.7"	3.7"	5.65"	1.5"	24.0"	11.7"	3.7"	5.62"	.46 ft. ²	.56 ft. ²	.73 ft. ²	1.01 ft. ²
480mm	297mm	94mm	144mm	38mm	610mm	297mm	94mm	143mm	.14 m ²	.17 m ²	.22 m ²	.31 m ²



J	K	L	M	N
4.33"	.562"	.875"	1.75"	.562"
480mm	297mm	94mm	610mm	297mm

PHOTOMETRY

The following diagrams represent the general distribution options offered for this product. For detailed information on specific product configurations, see [website photometric test reports](#).



AIRO Micro Strike

AREA/SITE/ROAD LIGHTER

ADDITIONAL INFORMATION (CONT'D)

OCCUPANCY SENSOR

- Individual fixture control
- Dims product when space is not occupied



7-PIN RECEPTACLE

- Compatible with 3-pin, 5-pin or 7-pin photocontrols
 - Turns fixture on when sun sets, off when sun rises
 - Wireless networked solution
 - For use with a variety of control platforms
- *Additional accessories required.



NX

NX DISTRIBUTED INTELLIGENCE™

Hubbell Controls Solutions' NX Distributed Intelligence™ platform delivers a lighting control solution capable of seamlessly connecting exterior and interior applications.

- Standalone or networked fixture control
- Astronomical time schedules
- BACnet building networking
- Connects with indoor wired, wireless or hybrid networks
- Wireless setup via app
- Occupancy Sensor option dims product when space is not occupied



SITESYNC LIGHTING CONTROL



SiteSync Lighting Control delivers flexible control strategies for reducing power consumption and minimizing maintenance costs while delivering the right light levels with a simple and affordable wireless solution.

- Pre-commissioning options available
- Standalone or networked fixture control
- Astronomical time schedules
- Occupancy Sensor option dims product when space is not occupied



AIRO Micro Strike

AREA/SITE/ROAD LIGHTER

ADDITIONAL INFORMATION (CONT'D)

PROGRAMMED CONTROLS

ADD-AutoDim Timer Based Options

- Light delay options from 1-9 hours after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1-9 hours after the light has been dimmed previously.

EX: ADD-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	1-9 Hours	6
Auto-Dim Brightness	0-9% Brightness	5
Auto-Dim Return	Delay 0-9 Hours	R6

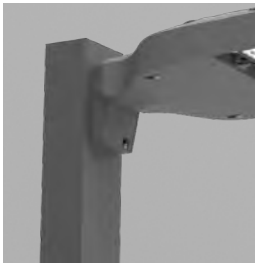
ADT-AutoDim Time of Day Based Option

- Light delay options from 1AM-9PM after the light is turned on to dim the light by 10-100%. To return the luminaire to its original light level there are dim return options from 1AM-9PM after the light has been dimmed previously.

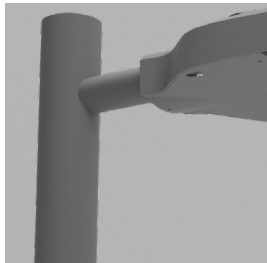
EX: ADT-6-5-R6

ADD Control Options	Configurations Choices	Example Choice Picked
Auto-Dim Options	12-3 AM and 6-11 PM	6
Auto-Dim Brightness	0-9% Brightness	5
Auto-Dim Return	12-6 AM and 9-11P	R6

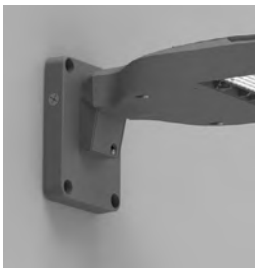
MOUNTING



Arm Mount – Fixture ships with integral arm for ease of installation. Compatible with Hubbell Outdoor S2 drill pattern.



MAF – Fits 2-3/8" OD arms Roadway applications.



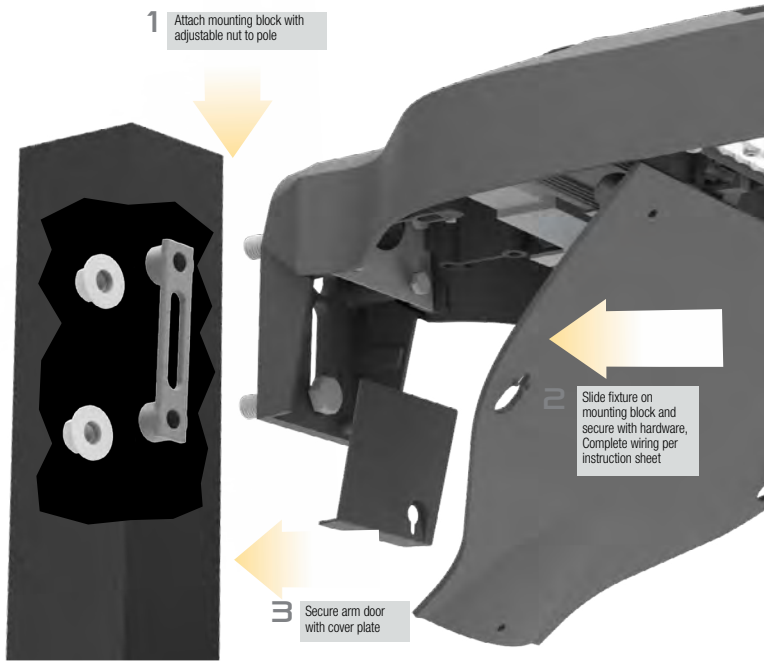
Wall Mount – Wall mount bracket designed for building mount applications.

AIRO Micro Strike

AREA/SITE/ROAD LIGHTER

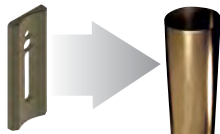
ADDITIONAL INFORMATION (CONT'D)

MOUNTING (CONT'D)



Universal Mount – Universal mounting block for ease of installation. Compatible with drill patterns from 2.5" to 4.5"

ACCESSORY



ROUND POLE ADAPTER



WB-AREA-XX



SPOKE BRACKET (single arm shown)
Horizontal round arm tenon adapters for use with MAF mounting type or accessory kit. Reference SH Spoke Pole Top Brackets for ordering information.

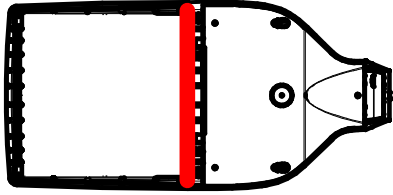
AIRO Micro Strike

AREA/SITE/ROAD LIGHTER

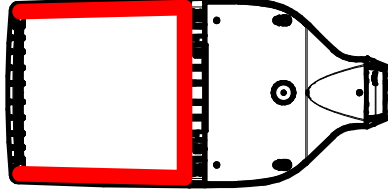
ADDITIONAL INFORMATION (CONT'D)

CONFIGURATIONS

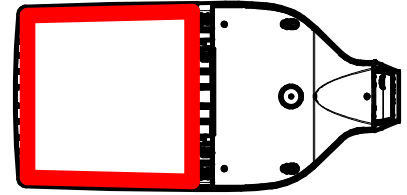
ASLx HSS-90-B-xx



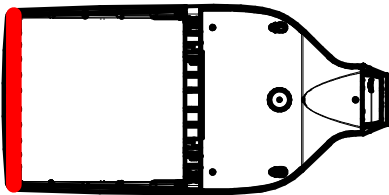
ASLx HSS-270-BSS-xx



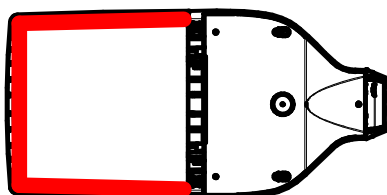
ASLx HSS-360-xx



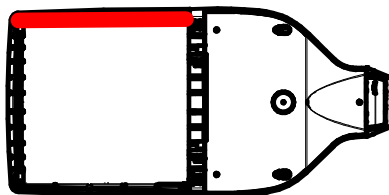
ASLx HSS-90-F-xx



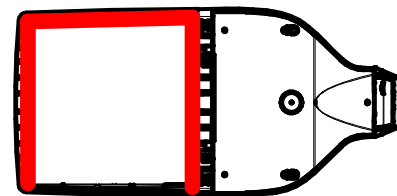
ASLx HSS-270-FSS-xx



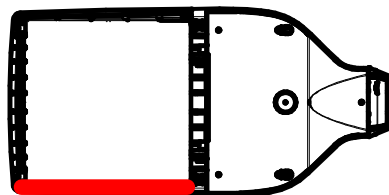
ASLx HSS-90-S-xx



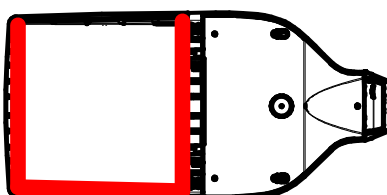
ASLx HSS-270-FSB-xx



ASLx HSS-90-S-xx



ASLx HSS-270-FSB-xx



USE OF TRADEMARKS AND TRADE NAMES

All product and company names, logos and product identifies are trademarks™ or registered trademarks® of Hubbell Lighting, Inc. or their respective owners. Use of them does not necessarily imply any affiliation with or endorsement by such respective owners.

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

RESET

APPLICATIONS

Lighting installations for side and top mounting of luminaires with effective projected area (EPA) not exceeding maximum allowable loading of the specified pole in its installed geographic location

CONSTRUCTION

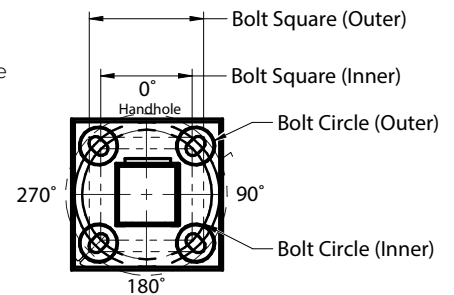
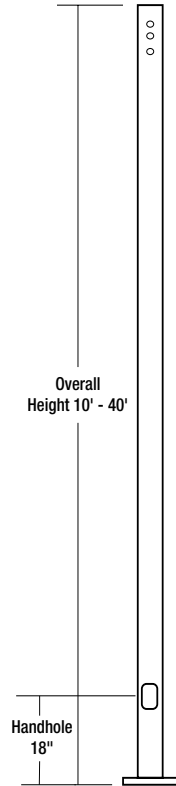
- Shaft: One-piece straight steel with square cross section, flat sides and minimum 0.23" radius on all corners; Minimum yield of 46,000 psi (ASTM-A500, Grade B); Longitudinal weld seam to appear flush with shaft side wall; Steel base plate with axial bolt circle slots welded to pole shaft having minimum yield of 36,000 psi (ASTM A36)
- base cover: Two-piece square aluminum base cover included standard
- pole cap: Pole shaft supplied with removable cover when applicable; Tenon and post-top configurations also available
- hand hole: Rectangular 3x5 steel hand hole frame (2.38" x 4.38" opening); Mounting provisions for grounding lug located behind gasketed cover
- anchor bolts: Four galvanized anchor bolts provided per pole with minimum yield of 55,000 psi (ASTM F1554). Galvanized hardware with two washers and two nuts per bolt for leveling
- Anchor bolt part numbers:
 - 3/4 x 30 x 3 — TAB-30-M38
 - 1 x 36 x 4 — TAB-36-M38

FINISH

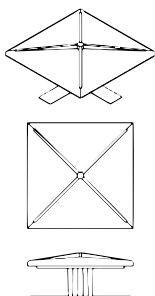
- Durable thermoset polyester powder coat paint finish with nominal 3.0 mil thickness
- Powder paint prime applied over "white metal" steel substrate cleaned via mechanical shot blast method
- Decorative finish coat available in multiple standard colors; Custom colors available; RAL number preferable

WAREHOUSE 'STOCKED' POLES:

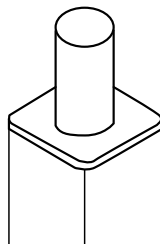
- SSSH-20-40-STK and SSSH-25-40-STK
- The above catalog numbers use a combination of the S2 and B3 drill pattern



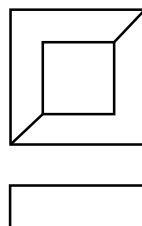
POLE CAP



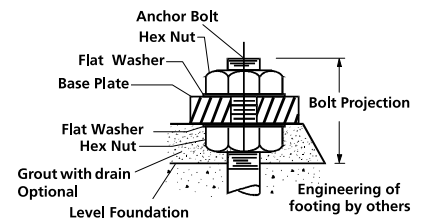
TENON



BASE COVER



BASE DETAIL



DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

RESET

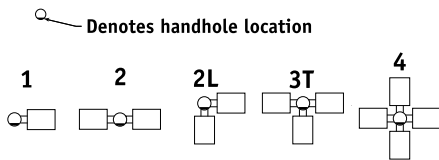
ORDERING GUIDE

Example: SSS-H-25-40-A/B/C-2L-S2-DBT-UL

CATALOG #

Series	Height	Shaft	Thickness	Mounting	Finish	Options
SSS-H Square Straight Steel Pole Hubbell Outdoor	Reference page 2 Ordering matrix	Reference page 2 Ordering matrix	Reference page 3 Ordering matrix	1 Single arm mount	BLT Black Matte Textured	GFI² 20 Amp GFCI Receptacle and Cover
				2 Two fixtures at 180°	BLS Black Gloss Smooth	EHH² Extra Handhole
				2L Two fixtures at 90°	DBT Dark Bronze Matte Textured	C05² .5" Coupling
				3T Three fixtures at 90°	DBS Dark Bronze Gloss Smooth	C07² .75" Coupling
				4 Four fixtures at 90°	GTT Graphite Matte Textured	C20² 2" Coupling
				TA Tenon (2.38" OD x 4" Tall)	LGS Light Grey Gloss Smooth	MPB² Mid-pole Luminaire Bracket
				TB Tenon (2.88" OD x 4" Tall)	PSS Platinum Silver Smooth	VM2 2nd mode vibration damper
				TC Tenon (3.5" OD x 6" Tall)	WHT White Matte Textured	LAB Less Anchor Bolts
				TR¹ Removable Tenon (2.38" x 4")	WHS White Gloss Smooth	UL UL Certified
				OT Open Top (includes pole cap)	VGT Verde Green Textured	
					Color Option	
					CC Custom Colors	
					Drill Pattern	
	B3 2 bolt (2-1/2" spacing), Ratio					
	S2 2 bolt (3-1/2" spacing)					

MOUNTING ORIENTATION



Notes:

- 1 Removable tenon used in conjunction with side arm mounting. First specify desired arm
- 2 Specify option location using logic found on page 1 (Option Orientation)
- 3 VM1 recommended on poles 20' and taller with EPA of less than 1.

ACCESSORIES- ORDER SEPARATELY

CATALOG NUMBER	DESCRIPTION
VM1 ³	1st mode vibration damper
VM2SXX*	2nd mode vibration damper

* XX = 08 for 8', 12 for 12', 15 for 16', 20 for 20', and 24' for 24'

DATE: _____ LOCATION: _____
 TYPE: _____ PROJECT: _____
 CATALOG #: _____

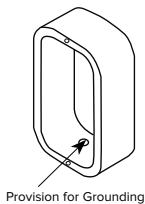
RESET

ORDERING GUIDE (CONTINUED)

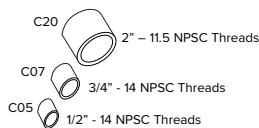
Catalog Number	Height		Nominal Shaft Dimensions	Wall Thickness	Bolt Circle (suggested)	Bolt Circle (range)	Bolt Square (range)	Base Plate Square	Anchor bolt size	Bolt Projection	Pole weight
	Feet	Meters									
SSS-H-10-40-A-XX-XX	10	3.0	4" square	0.125"	9"	8"-10"	5.66"-7.07"	9"	3/4"x30"x3"	3.5	77
SSS-H-12-40-A-XX-XX	12	3.7	4" square	0.125"	9"	8"-10"	5.66"-7.07"	9"	3/4"x30"x3"	3.5	90
SSS-H-14-40-A-XX-XX	14	4.3	4" square	0.125"	9"	8"-10"	5.66"-7.07"	9"	3/4"x30"x3"	3.5	103
SSS-H-16-40-A-XX-XX	16	4.9	4" square	0.125"	9"	8"-10"	5.66"-7.07"	9"	3/4"x30"x3"	3.5	116
SSS-H-18-40-A-XX-XX	18	5.5	4" square	0.125"	9"	8"-10"	5.66"-7.07"	9"	3/4"x30"x3"	3.5	129
SSS-H-20-40-A-XX-XX	20	6.1	4" square	0.125"	9"	8"-10"	5.66"-7.07"	9"	3/4"x30"x3"	3.5	142
SSS-H-25-40-A-XX-XX	25	7.6	4" square	0.125"	9"	8"-10"	5.66"-7.07"	9"	3/4"x30"x3"	3.5	175
SSS-H-14-40-B-XX-XX	14	4.3	4" square	.188"	11"	10"-12"	7.07"-8.48"	10.50"	3/4"x30"x3"	3.5	152
SSS-H-16-40-B-XX-XX	16	4.9	4" square	.188"	11"	10"-12"	7.07"-8.48"	10.50"	3/4"x30"x3"	3.5	171
SSS-H-18-40-B-XX-XX	18	5.5	4" square	.188"	11"	10"-12"	7.07"-8.48"	10.50"	3/4"x30"x3"	3.5	190
SSS-H-20-40-B-XX-XX	20	6.1	4" square	.188"	11"	10"-12"	7.07"-8.48"	10.50"	3/4"x30"x3"	3.5	209
SSS-H-25-40-B-XX-XX	25	7.6	4" square	.188"	11"	10"-12"	7.07"-8.48"	10.50"	3/4"x30"x3"	3.5	257
SSS-H-30-40-B-XX-XX	30	9.1	4" square	.188"	11"	10"-12"	7.07"-8.48"	10.50"	3/4"x30"x3"	3.5	304
SSS-H-16-50-B-XX-XX	16	4.9	5" square	.188"	11"	10.25"-13.25"	7.25"-9.37"	11.50"	1"x36"x4"	4.5	219
SSS-H-18-50-B-XX-XX	18	5.5	5" square	.188"	11"	10.25"-13.25"	7.25"-9.37"	11.50"	1"x36"x4"	4.5	243
SSS-H-20-50-B-XX-XX	20	6.1	5" square	.188"	11"	10.25"-13.25"	7.25"-9.37"	11.50"	1"x36"x4"	4.5	267
SSS-H-25-50-B-XX-XX	25	7.6	5" square	.188"	11"	10.25"-13.25"	7.25"-9.37"	11.50"	1"x36"x4"	4.5	327
SSS-H-30-50-B-XX-XX	30	9.1	5" square	.188"	11"	10.25"-13.25"	7.25"-9.37"	11.50"	1"x36"x4"	4.5	387
SSS-H-25-50-C-XX-XX	25	7.6	5" square	.25"	11"	10.25"-13.25"	7.25"-9.37"	11.50"	1"x36"x4"	4.5	427
SSS-H-30-50-C-XX-XX	30	9.1	5" square	.25"	11"	10.25"-13.25"	7.25"-9.37"	11.50"	1"x36"x4"	4.5	507
SSS-H-20-60-B-XX-XX	20	6.1	6" square	.188"	12"	11.00"-13.25"	7.81"-9.37"	12.25"	1"x36"x4"	5.0	329
SSS-H-25-60-B-XX-XX	25	7.6	6" square	.188"	12"	11.00"-13.25"	7.81"-9.37"	12.25"	1"x36"x4"	5.0	404
SSS-H-30-60-B-XX-XX	30	9.1	6" square	.188"	12"	11.00"-13.25"	7.81"-9.37"	12.25"	1"x36"x4"	5.0	479
SSS-H-35-60-B-XX-XX	35	10.7	6" square	.188"	12"	11.00"-13.25"	7.81"-9.37"	12.25"	1"x36"x4"	5.0	554
SSS-H-40-60-B-XX-XX	40	12.2	6" square	.188"	12"	11.00"-13.25"	7.81"-9.37"	12.25"	1"x36"x4"	5.0	629

Notes:
 1 Factory supplied template must be used when setting anchor bolts. Hubbell Lighting will deny any claim for incorrect anchorage placement resulting from failure to use factory supplied template and anchor bolts.

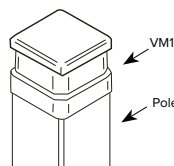
EHH EXTRA HANDHOLE



C05 - C07 - C20 - COUPLING



VM1 - VIBRATION DAMPER 1ST MODE



Field Installed Pole Top damper designed to reduce pole top deflection or sway. VM1 is recommended for pole systems 20' and taller with a total EPA of 1.0 or less.

VM2 - VIBRATION DAMPER 2ND MODE



Factory installed, internal damper designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.

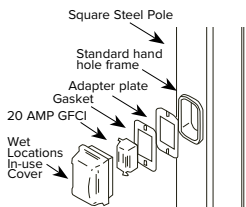
VM2SXX - VIBRATION DAMPER 2ND MODE



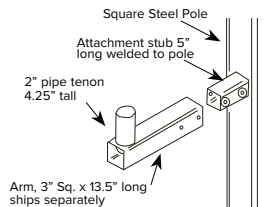
- VM2S08 - 8'
- VM2S12 - 12'
- VM2S16 - 16'
- VM2S20 - 20'
- VM2S24 - 24'

Field installed, internal damper designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.

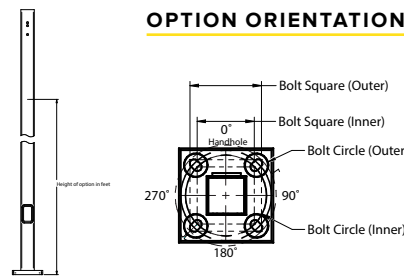
GFI - 20 AMP GFCI RECEPTACLE & COVER



MPB - MID POLE BRACKET



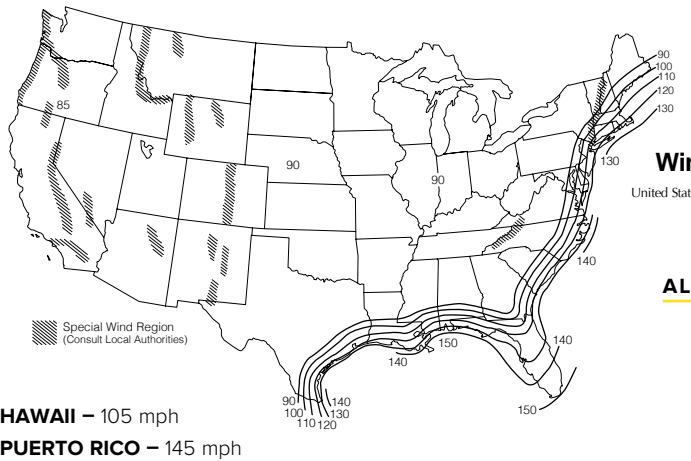
OPTION ORIENTATION



Follow the logic below when ordering location specific options. For each option, include its orientation (in degrees) and its height (in feet). Example: Option C07 should be ordered as: SSS-H-20-40-A-TA-DBT-C07-0-15 (5" coupling on the handhole/arm side of pole, 15 feet up from the pole base) 1' spacing required between option. Consult factory for other configurations.

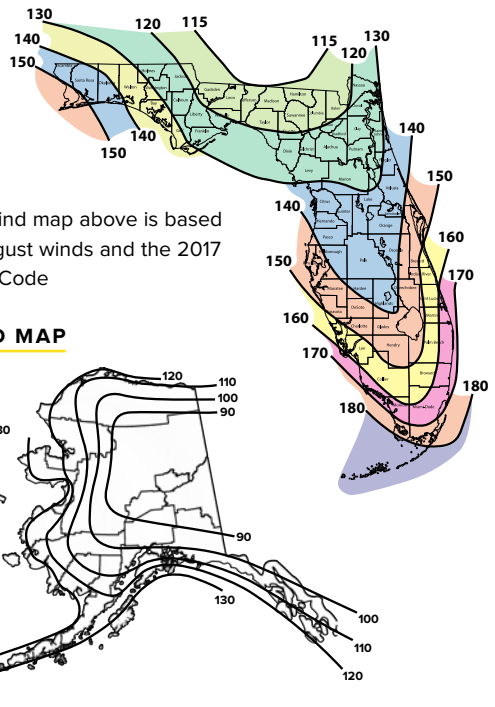
RESET

ASCE7-05 WIND MAP

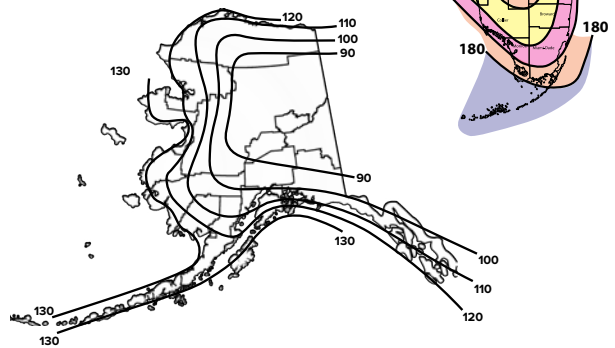


FLORIDA REGION WIND MAP

• Florida region wind map above is based upon 3-second gust winds and the 2017 Florida Building Code



ALASKA REGION WIND MAP



ASCE 7-05 wind map EPA Load Rating - 3 second gust wind speeds (Use for all locations except Florida)

Catalog Number	85	90	100	105	110	120	130	140	145	150
SSS-H-10-40-A	25.0	25.0	25.0	22.8	20.6	17.0	14.2	11.9	11.0	10.1
SSS-H-12-40-A	25.0	25.0	20.0	18.0	16.1	13.2	10.8	8.9	8.1	7.4
SSS-H-14-40-A	23.1	20.4	16.1	14.3	12.8	10.2	8.2	6.6	5.9	5.3
SSS-H-16-40-A	19.0	16.7	13.0	11.5	10.1	7.9	6.2	4.7	4.1	3.6
SSS-H-18-40-A	15.6	13.6	10.0	9.0	7.8	5.9	4.4	3.1	2.6	2.1
SSS-H-20-40-A	12.7	10.9	7.9	6.9	5.9	4.2	2.8	1.7	1.3	0.9
SSS-H-25-40-A	7.3	5.9	3.8	2.9	2.1	0.8	NR	NR	NR	NR
SSS-H-14-40-B	25.0	25.0	23.3	20.8	18.6	15.1	12.3	10.2	9.2	8.4
SSS-H-16-40-B	25.0	24.9	19.4	17.3	15.4	12.3	9.9	8.0	7.2	6.4
SSS-H-18-40-B	24.0	20.8	16.1	14.2	12.5	9.8	7.7	6.1	5.3	4.7
SSS-H-20-40-B	20.2	17.5	13.2	11.6	10.1	7.7	5.9	4.4	3.8	3.2
SSS-H-25-40-B	12.8	11.0	7.9	6.7	5.5	3.7	2.3	1.2	0.7	NR
SSS-H-30-40-B	8.0	6.6	4.1	3.1	2.2	0.8	NR	NR	NR	NR
SSS-H-16-50-B	25.0	25.0	25.0	25.0	24.8	20.1	16.5	13.6	12.3	11.2
SSS-H-18-50-B	25.0	25.0	25.0	22.9	20.4	16.4	13.2	10.7	9.6	8.6
SSS-H-20-50-B	25.0	25.0	21.3	18.9	16.7	13.2	10.4	8.1	7.2	6.3
SSS-H-25-50-B	20.7	17.8	13.3	11.5	9.8	7.2	5.0	3.3	2.6	1.9
SSS-H-30-50-B	13.5	11.3	7.7	6.2	4.9	2.8	1.1	NR	NR	NR
SSS-H-25-50-C	25.0	25.0	19.4	17.1	15.1	11.7	9.0	6.9	6.0	5.1
SSS-H-30-50-C	20.1	17.3	12.7	10.9	9.3	6.6	4.5	2.8	2.1	1.4
SSS-H-20-60-B	25.0	25.0	25.0	25.0	25.0	20.2	16.1	12.9	11.5	10.3
SSS-H-25-60-B	25.0	25.0	20.6	18.0	15.6	11.8	8.7	6.2	5.2	4.2
SSS-H-30-60-B	21.4	18.1	12.9	10.7	8.8	5.7	3.3	1.3	NR	NR
SSS-H-35-60-B	14.0	11.3	6.9	5.2	3.6	1.0	NR	NR	NR	NR
SSS-H-40-60-B	8.1	5.8	2.2	NR	NR	NR	NR	NR	NR	NR

Florida Building Code 2017 EPA Load Rating - 3 second gust wind speeds (Use for Florida only)

Catalog Number	115	120	130	140	150	160	170	180
SSS-H-10-40-A	25.0	25.0	25.0	25.0	21.4	18.4	15.9	13.9
SSS-H-12-40-A	25.0	25.0	23.6	19.8	16.7	14.2	12.1	10.4
SSS-H-14-40-A	25.0	23.1	19.0	15.7	13.1	10.9	9.1	7.6
SSS-H-16-40-A	20.8	18.7	15.2	12.3	10.1	8.2	6.7	5.4
SSS-H-18-40-A	16.8	15.0	11.9	9.4	7.5	5.9	4.5	3.4
SSS-H-20-40-A	13.6	11.9	9.2	7.1	5.3	3.9	2.7	1.7
SSS-H-25-40-A	7.4	6.2	4.1	2.5	1.1	NR	NR	NR
SSS-H-14-40-B	25.0	23.6	19.4	16.1	13.4	11.2	9.4	7.8
SSS-H-16-40-B	21.4	19.2	15.6	12.7	10.4	8.5	6.9	5.6
SSS-H-18-40-B	17.2	15.4	12.2	9.7	7.7	6.1	4.7	3.6
SSS-H-20-40-B	13.9	12.3	9.5	7.3	5.5	4.1	2.9	1.9
SSS-H-25-40-B	7.7	6.4	4.3	2.6	1.3	NR	NR	NR
SSS-H-30-40-B	3.2	2.1	NR	NR	NR	NR	NR	NR
SSS-H-16-50-B	25.0	25.0	25.0	25.0	25.0	21.4	18.2	15.5
SSS-H-18-50-B	25.0	25.0	25.0	24.4	20.4	17.0	14.2	11.9
SSS-H-20-50-B	25.0	25.0	24.4	19.9	16.3	13.4	11.0	8.9
SSS-H-25-50-B	21.8	19.3	15.0	11.5	8.8	6.5	4.7	3.1
SSS-H-30-50-B	13.7	11.7	8.2	5.5	3.3	1.5	NR	NR
SSS-H-25-50-C	21.8	19.3	15.0	11.5	8.8	6.5	4.7	3.1
SSS-H-30-50-C	13.7	11.7	8.2	5.5	3.3	1.5	NR	NR
SSS-H-20-60-B	25.0	25.0	25.0	21.9	17.8	14.5	11.7	9.4
SSS-H-25-60-B	23.8	20.9	16.1	12.3	9.2	6.6	4.5	2.8
SSS-H-30-60-B	14.6	12.3	8.4	5.3	2.8	0.8	NR	NR
SSS-H-35-60-B	7.5	5.6	2.4	NR	NR	NR	NR	NR
SSS-H-40-60-B	1.8	NR	NR	NR	NR	NR	NR	NR

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

RESET

Notes:

- 1 Allowable EPA, to determine max pole loading weight, multiply allowable EPA by 30 lbs.
- 2 The tables for allowable pole EPA are based on the ASCE 7-05 Wind Map or the Florida Region Wind Map for the 2010 Florida Building Code. The Wind Maps are intended only as a general guide and cannot be used in conjunction with other maps. Always consult local authorities to determine maximum wind velocities, gusting and unique wind conditions for each specific application
- 3 Allowable pole EPA for jobsite wind conditions must be equal to or greater than the total EPA for fixtures, arms, and accessories to be assembled to the pole. Responsibility lies with the specifier for correct pole selection. Installation of poles without luminaires or attachment of any unauthorized accessories to poles is discouraged and shall void the manufacturer's warranty
- 4 Wind speeds and listed EPAs are for ground mounted installations. Poles mounted on structures (such as bridges and buildings) must consider vibration and coefficient of height factors beyond this general guide; Consult local and federal standards
- 5 Wind Induced Vibration brought on by steady, unidirectional winds and other unpredictable aerodynamic forces are not included in wind velocity ratings. Consult Hubbell Lighting's Pole Vibration Application Guide for environmental risk factors and design considerations. https://hubbellcdn.com/ohwassets/HLL/outdoor/resources/literature/files/Pole_Wind_Induced_Flyer_HLQI0022.pdf
- 6 Extreme Wind Events like, Hurricanes, Typhoons, Cyclones, or Tornadoes may expose poles to flying debris, wind shear or other detrimental effects not included in wind velocity ratings

Due to our continued efforts to improve our products, product specifications are subject to change without notice.