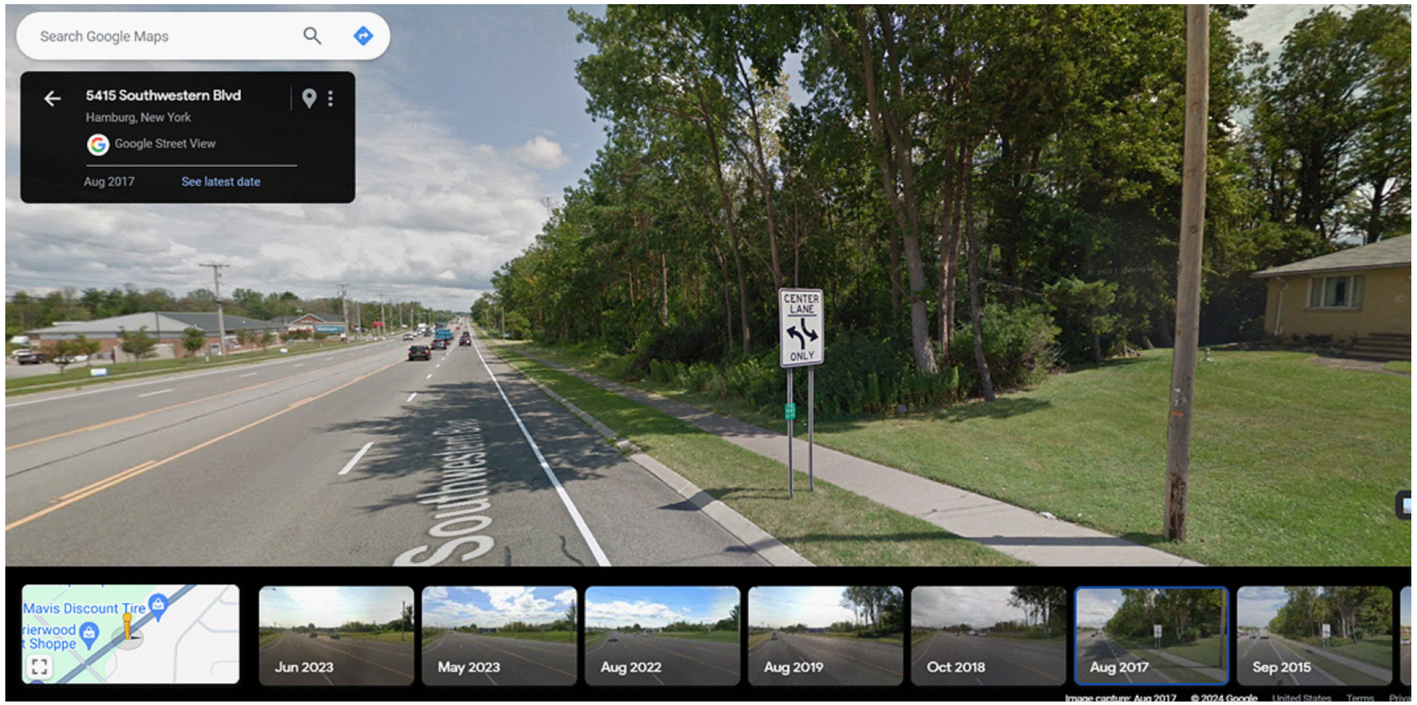
DEIS Appendix
VOLUME 4

- Appendix M: Viewsheds
- Appendix N: Project Plans & Zoning Map

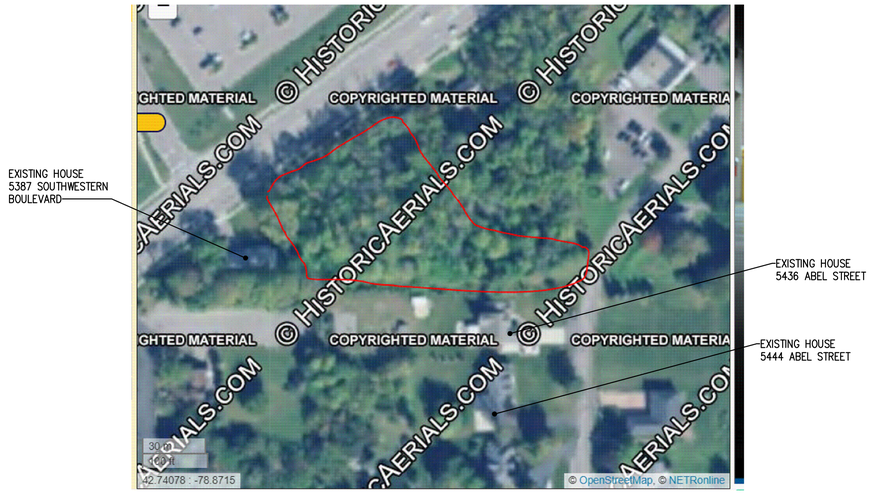
Appendix M

Viewsheds

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2017 – VIEW FROM SOUTHWESTERN BOULEVARD LOOKING SOUTHEAST TO SITE



2017 – PLAN VIEW

2017 – PRE MAVIS DEVELOPMENT AND SITE CLEARING



2023 – VIEW FROM SOUTHWESTERN BOULEVARD LOOKING SOUTHEAST TO SITE



2023 – PLAN VIEW

2023 – POST APPROVED MAVIS DEVELOPMENT AND SITE CLEARING

EXHIBIT 1
DATED: 4/11/24
SCALE: N.T.S

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LAND USE AND ZONING

MAP 182.05, BLOCK 1, LOT 9.2

GENERAL COMMERCIAL DISTRICT (C-2)

PROPOSED USE
CAR WASH — SPECIAL PERMIT

ZONING REQUIREMENT	REQUIRED	PROPOSED
MINIMUM LOT WIDTH	100 FT	310 FT
MAXIMUM BUILDING HEIGHT	35 FT	< 35 FT
MAXIMUM LOT COVERAGE	85% (68,434 SF)	40.0% (32,012 SF)
MINIMUM FRONT YARD SETBACK	40 FT	139.5 FT
MINIMUM SIDE YARD SETBACK (RESIDENTIAL)	20 FT	42.7 FT
MINIMUM SIDE YARD SETBACK (NON-RESIDENTIAL)	5 FT	73.6 FT

SPECIAL PERMIT CONDITIONS

CODE SECTION	REQUIRED	PROPOSED
§ 280-323. A.	THESE FACILITIES SHALL NOT BE LOCATED WITHIN 200 FT OF ANY RESIDENTIAL STRUCTURE OR WITHIN 500 FEET OF ANOTHER SUCH FACILITY	48.1 FT (*) 150.8 FT (*)
§ 280-323. B.	ARCHITECTURAL FEATURES OF THE CAR WASH BUILDINGS AND OTHER BUILDINGS ON THE PROPERTY IN HARMONY WITH THE SURROUNDING USES	COMPLIES
§ 280-323. C.	VISIBILITY FROM THE ROAD SHALL BE MINIMIZED THROUGH PROPER SITING, SETBACKS, EXISTING TOPOGRAPHIC FEATURES, BERMING AND LANDSCAPING FEATURES.	COMPLIES

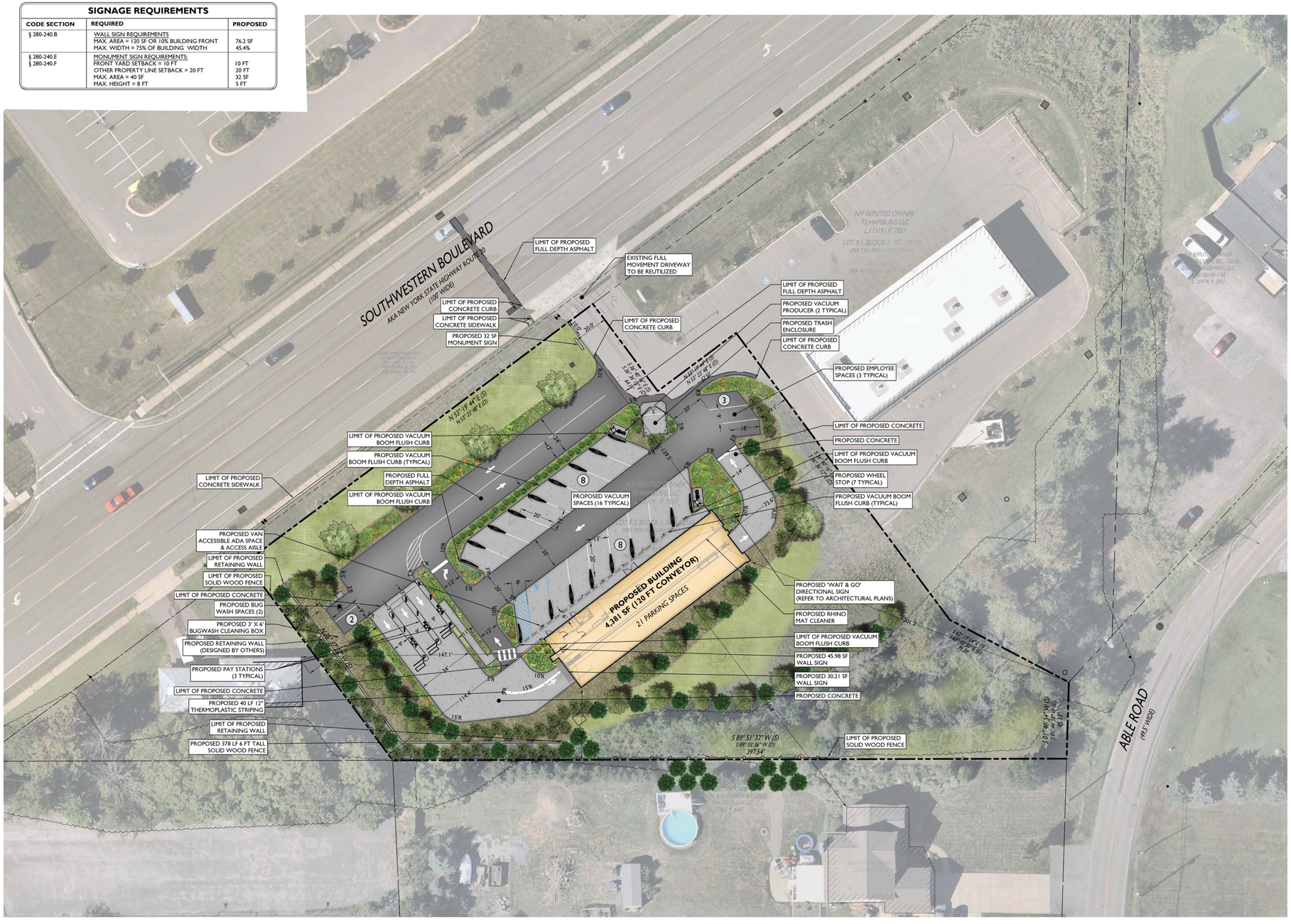
(*) VARIANCES APPROVED AT 12/6/22 ZONING BOARD MEETING

OFF-STREET PARKING REQUIREMENTS

CODE SECTION	REQUIRED	PROPOSED
§ 280-215. A.	TO BE DETERMINED BY PLANNING BOARD	21 SPACES
§ 280-229. B.	NO OFF STREET PARKING SHALL BE PERMITTED WITHIN 35 FT OF ANY STREET LINE, OR 10 FT OF ANY SIDE OR REAR LOT LINE	COMPLIES 20.8 FT

SIGNAGE REQUIREMENTS

CODE SECTION	REQUIRED	PROPOSED
§ 280-240.B	WALL SIGN REQUIREMENTS MAX. AREA = 120 SF OR 10% BUILDING FRONT MAX. WIDTH = 75% OF BUILDING WIDTH	76.2 SF 45.4%
§ 280-240.E § 280-240.F	MONUMENT SIGN REQUIREMENTS: FRONT YARD SETBACK = 10 FT OTHER PROPERTY LINE SETBACK = 20 FT MAX. AREA = 40 SF MAX. HEIGHT = 8 FT	10 FT 20 FT 32 SF 5 FT



SYMBOL	DESCRIPTION
	PROPERTY LINE
	SETBACK LINE
	SAWCUT LINE
	PROPOSED CURB
	PROPOSED FLUSH CURB
	PROPOSED SIGNS / BOLLARDS
	PROPOSED BUILDING
	PROPOSED CONCRETE
	PROPOSED BUILDING DOORS

EXHIBIT:

DATE PREPARED:
03/20/2024

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY AND FAMILIARIZE THEMSELVES WITH THE EXISTING SITE CONDITIONS AND THE PROPOSED SCOPE OF WORK (INCLUDING DIMENSIONS, LAYOUT, ETC.) PRIOR TO INITIATING THE IMPROVEMENTS IDENTIFIED WITHIN THESE DOCUMENTS. SHOULD ANY DISCREPANCY BE FOUND BETWEEN THE EXISTING SITE CONDITIONS AND THE PROPOSED WORK THE CONTRACTOR SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. PRIOR TO THE START OF CONSTRUCTION.
2. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND ENSURE THAT ALL REQUIRED APPROVALS HAVE BEEN OBTAINED PRIOR TO THE START OF CONSTRUCTION. COPIES OF ALL REQUIRED PERMITS AND APPROVALS SHALL BE KEPT ON SITE AT ALL TIMES DURING CONSTRUCTION.
3. ALL CONTRACTORS WILL, TO THE FULLEST EXTENT PERMITTED BY LAW, INDEMNIFY AND HOLD HARMLESS STONEFIELD ENGINEERING & DESIGN, LLC. AND IT'S SUB-CONSULTANTS FROM AND AGAINST ANY DAMAGES AND LIABILITIES INCLUDING ATTORNEY'S FEES ARISING OUT OF CLAIMS BY EMPLOYEES OF THE CONTRACTOR IN ADDITION TO CLAIMS CONNECTED TO THE PROJECT AS A RESULT OF NOT CARRYING THE PROPER INSURANCE FOR WORKERS COMPENSATION, LIABILITY INSURANCE, AND LIMITS OF COMMERCIAL GENERAL LIABILITY INSURANCE.
4. THE CONTRACTOR SHALL NOT DEVIATE FROM THE PROPOSED IMPROVEMENTS IDENTIFIED WITHIN THIS PLAN SET UNLESS APPROVAL IS PROVIDED IN WRITING BY STONEFIELD ENGINEERING & DESIGN, LLC.
5. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE THE MEANS AND METHODS OF CONSTRUCTION.
6. THE CONTRACTOR SHALL NOT PERFORM ANY WORK OR CAUSE DISTURBANCE ON A PRIVATE PROPERTY NOT CONTROLLED BY THE PERSON OR ENTITY WHO HAS AUTHORIZED THE WORK WITHOUT PRIOR WRITTEN CONSENT FROM THE OWNER OF THE PRIVATE PROPERTY.
7. THE CONTRACTOR IS RESPONSIBLE TO RESTORE ANY DAMAGED OR UNDERMINED STRUCTURE OR SITE FEATURE THAT IS IDENTIFIED TO REMAIN ON THE PLAN SET. ALL REPAIRS SHALL USE NEW MATERIALS TO RESTORE THE FEATURE TO ITS EXISTING CONDITION AT THE CONTRACTOR'S EXPENSE.
8. CONTRACTOR IS RESPONSIBLE TO PROVIDE THE APPROPRIATE SHOP DRAWINGS, PRODUCT DATA, AND OTHER REQUIRED SUBMITTALS FOR REVIEW. STONEFIELD ENGINEERING & DESIGN, LLC. WILL REVIEW THE SUBMITTALS IN ACCORDANCE WITH THE DESIGN INTENT AS REFLECTED WITHIN THE PLAN SET.
9. THE CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL IN ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
10. THE CONTRACTOR IS REQUIRED TO PERFORM ALL WORK IN THE PUBLIC RIGHT-OF-WAY IN ACCORDANCE WITH THE APPROPRIATE GOVERNING AUTHORITY AND SHALL BE RESPONSIBLE FOR THE PROCUREMENT OF STREET OPENING PERMITS.
11. THE CONTRACTOR IS REQUIRED TO RETAIN AN OSHA CERTIFIED SAFETY INSPECTOR TO BE PRESENT ON SITE AT ALL TIMES DURING CONSTRUCTION & DEMOLITION ACTIVITIES.
12. SHOULD AN EMPLOYEE OF STONEFIELD ENGINEERING & DESIGN, LLC. BE PRESENT ON SITE AT ANY TIME DURING CONSTRUCTION, IT DOES NOT RELIEVE THE CONTRACTOR OF ANY OF THE RESPONSIBILITIES AND REQUIREMENTS LISTED IN THE NOTES WITHIN THIS PLAN SET.

30' 0' 30' 60'
GRAPHIC SCALE IN FEET
1" = 30'

EXHIBIT 2

ISSUE	DATE	BY	DESCRIPTION
1	03/20/2024	PK	FOR HEARING

NOT APPROVED FOR CONSTRUCTION

STONEFIELD engineering & design
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Princeton, NJ · Tampa, FL · Detroit, MI
www.stonefieldeng.com
Headquarters: 92 Park Avenue, Rutherford, NJ 07070
Phone 201.340.4468 · Fax 201.340.4472

SITE PLAN RENDERING

HUTTON ST 21, LLC

PROPOSED CAR WASH

SECTION 182.05, BLOCK 1, LOT 9.2,
5563 SOUTHWESTERN BOULEVARD
TOWN OF HAMBURG
ERIE COUNTY, NEW YORK

JEFFREY A. MARTELL, P.E.
NEW YORK LICENSE No. 86502
LICENSED PROFESSIONAL ENGINEER

STONEFIELD engineering & design

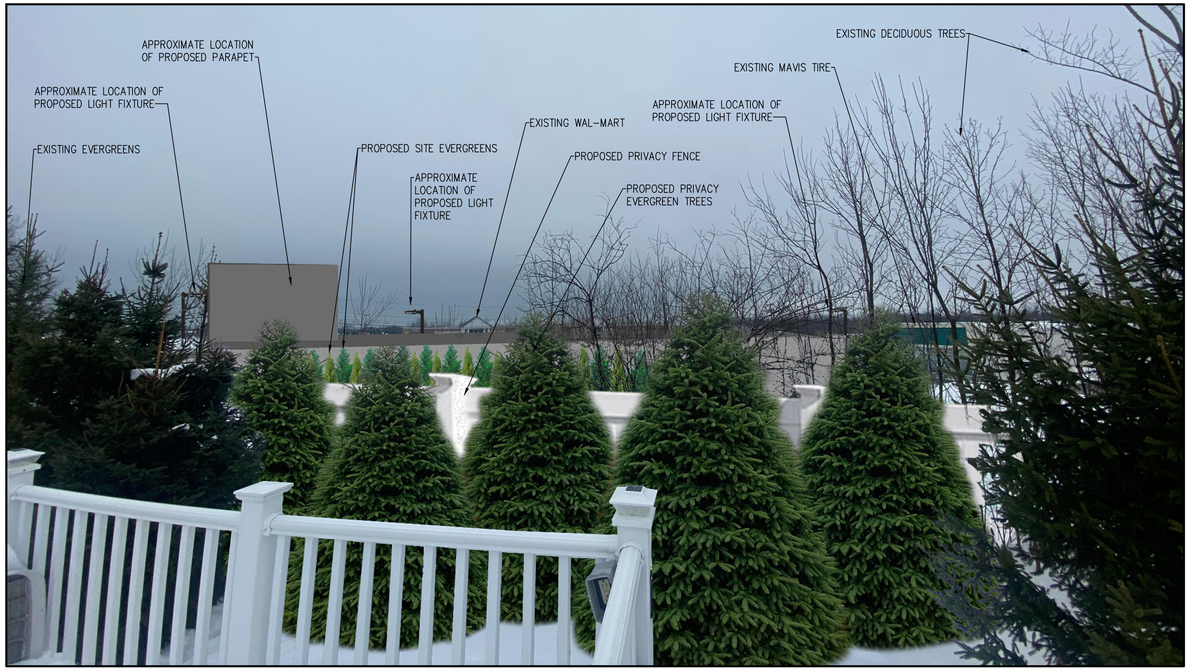
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TITLE: SITE PLAN RENDERING

DRAWING: 1 OF 1

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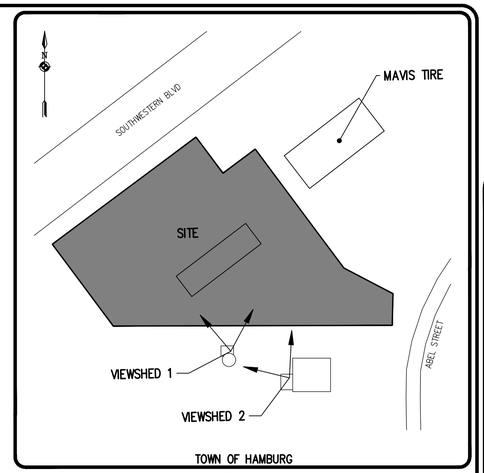
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VIEWSHED 1 – POST DEVELOPMENT VIEW FROM POOL DECK



VIEWSHED 1 – EXISTING VIEW FROM POOL DECK



LOCATION MAP
NOT TO SCALE

Drawing Alteration
The following is an excerpt from the New York State Education Law Article 145 Section 7209 and applies to this drawing:
"It is a violation of this law for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor to alter any item in any way. If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration."

								BY
								DATE
								REVISIONS
7	6	5	4	3	2	1		

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MODWASH HAMBURG
PROJECT
TOWN OF HAMBURG, ERIE COUNTY, NEW YORK STATE
LOCATION
HUTTON ST 21, LLC
736 CHERRY STREET
CHATTANOOGA, TENNESSEE 37402
CLIENT
VIEWSHED RENDERING
5436 ABEL STREET
DRAWING TITLE

PROJECT MANAGER	
P. VARS	
PROJECT ENGINEER	
R. SPURR	
DRAWN BY	
J. SQUIER	
SCALE	DATE ISSUED
N.T.S.	MARCH 2024
PROJECT NO.	
2915	
DRAWING NO.	
EXHIBIT 3	

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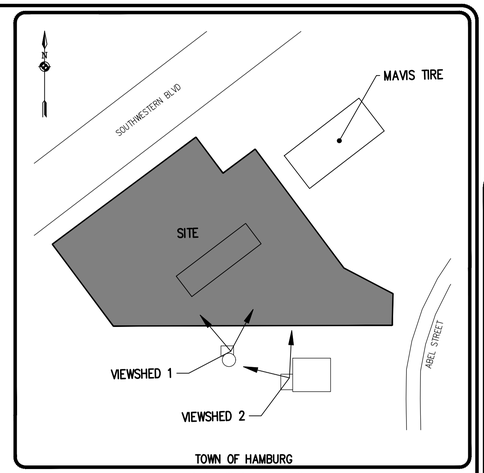
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VIEWSHED 2 – POST DEVELOPMENT VIEW FROM HOUSE DECK



VIEWSHED 2 – EXISTING VIEW FROM HOUSE DECK



LOCATION MAP
NOT TO SCALE

Drawing Alteration
The following is an excerpt from the New York State Education Law Article 145 Section 7209 and applies to this drawing:
"It is a violation of this law for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor to alter any item in any way. If an item bearing the seal of an engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration."

	DATE	BY
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1		

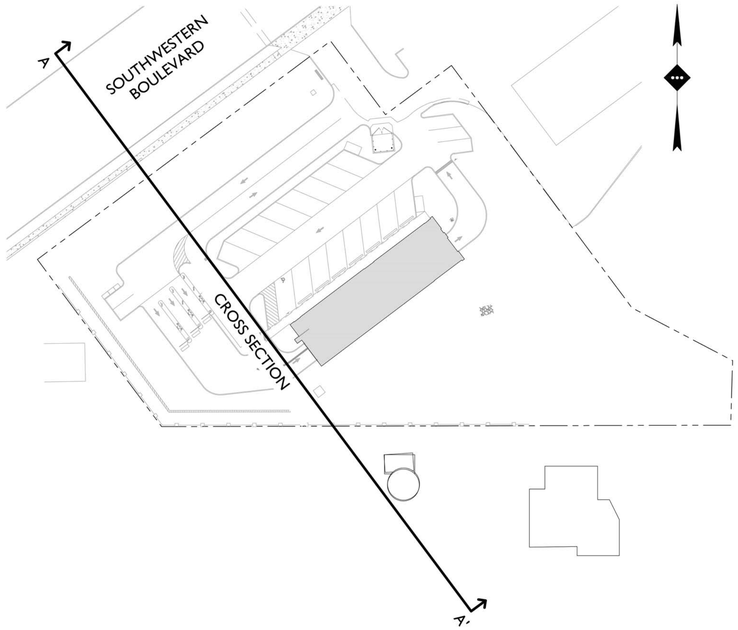
REVISIONS

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PHONE 585-377-7360
FAX 585-377-7369

PROJECT: MODWASH HAMBURG
LOCATION: TOWN OF HAMBURG, ERIE COUNTY, NEW YORK STATE
CLIENT: HUTTON ST 21, LLC
736 CHERRY STREET
CHATTANOOGA, TENNESSEE 37402
DRAWING TITLE: VIEWSHED RENDERING
5436 ABEL STREET

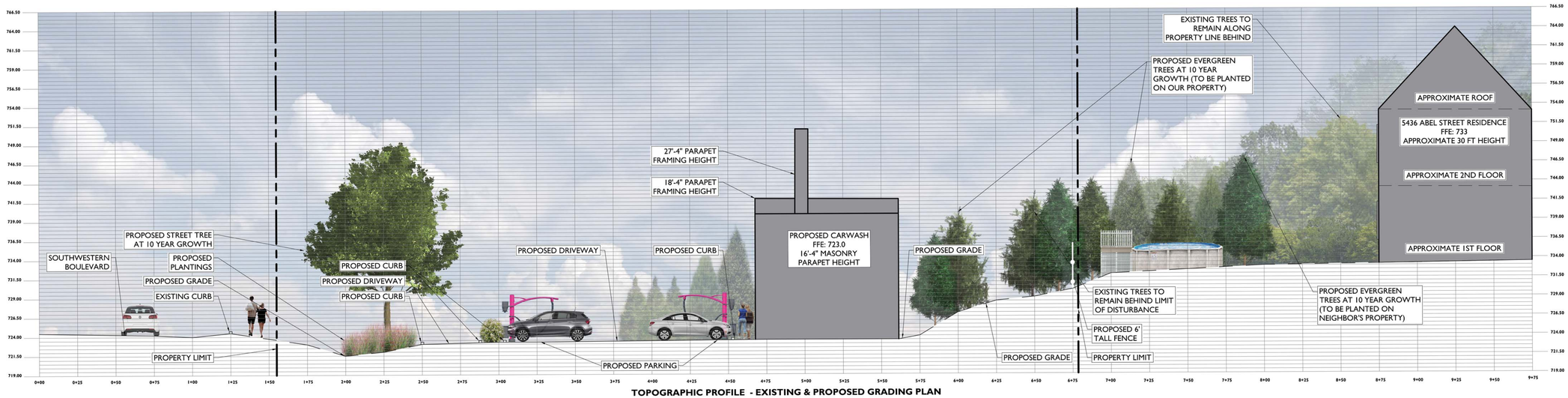
PROJECT MANAGER	
P. VARS	
PROJECT ENGINEER	
R. SPURR	
DRAWN BY	
J. SQUIER	
SCALE	DATE ISSUED
N.T.S.	MARCH 2024
PROJECT NO.	
2915	
DRAWING NO.	
EXHIBIT 4	

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CROSS SECTION KEY MAP

50' 0' 50' 100'
GRAPHIC SCALE IN FEET
1" = 50'



TOPOGRAPHIC PROFILE - EXISTING & PROPOSED GRADING PLAN

CROSS SECTION A - A'

NOT TO SCALE

EXHIBIT 5

ISSUE	DATE	BY	DESCRIPTION
2	03/20/2024	JA	FOR EIS PREPARATION
1	07/14/2023	MU	GRADING PROFILE EXHIBIT

NOT APPROVED FOR CONSTRUCTION

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GRADING PROFILE EXHIBIT

HUTTON ST 21, LLC

PROPOSED CAR WASH

SECTION I 82.05, BLOCK 1, LOT 9.2,
SEC. SOUTHWESTERN BOULEVARD
TOWN OF HAMBURG
ERIE COUNTY, NEW YORK

Mod Wash

JEFFREY A. MARTELL, P.E.
NEW YORK LICENSE No. 86502
LICENSED PROFESSIONAL ENGINEER

STONEFIELD engineering & design

SCALE: AS SHOWN | PROJECT ID: RUT-220250

TITLE: GRADING PROFILE EXHIBIT

DRAWING: 1 OF 1

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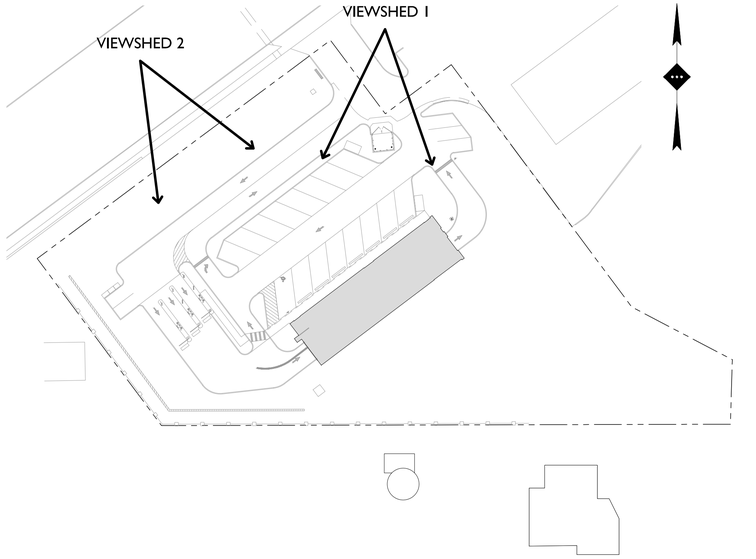
VIEWSHED 1

NOT TO SCALE



VIEWSHED 2

NOT TO SCALE



VIEWSHED KEY MAP

ISSUE	DATE	BY	DESCRIPTION
1	07/05/2023	MU	VIEWSHED RENDERING EXHIBIT

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VIEWSHED RENDERING EXHIBIT

HUTTON ST 21, LLC

PROPOSED CAR WASH

SECTION 182.05, BLOCK 1, LOT 9.2
5761 SOUTHWESTERN BOULEVARD
TOWN OF HAMBURG
ERIE COUNTY, NEW YORK

JEFFREY A. MARTELL, P.E.
NEW YORK LICENSE No. 86502
LICENSED PROFESSIONAL ENGINEER

STONEFIELD engineering & design

SCALE: AS SHOWN | PROJECT ID: RUT-220250

TITLE:

VIEWSHED RENDERING EXHIBIT

DRAWING:

EXHIBIT 6

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commercial access

DR10

DR20

DR30

DR40

DR50

DR60

12,000 sf future retail bldg

Parking & dumpster

Exhibit 7

0 30 60 90 FT
1" = 30' BAR SCALE

11/11/2015 3:43:40 PM I:\Goddard Development\012188.00 GODDARD - HAMBURG MAVIS TIRE\4.0 Dwgs\4.1 Civil\drain areas-proposed.dwg

Mavis Discount Tire

5363 Southwestern Boulevard
Town of Hamburg, NY

Goddard Development Partners
145 Otterkill Road
Mountainville, NY 10953
845-534-0100

BERGMANN ASSOCIATES
Bergmann Associates, Architects, Engineers, Landscape Architects & Surveyors, D.P.C.
280 East Broad Street
Suite 200
Rochester, NY 14604
office: 585.232.5135
fax: 585.232.4652
www.bergmannpc.com

REVISIONS

NO.	DATE	DESCRIPTION	REV. CKD
1	4-11-17	REVISED DRIVEWAY PER DOT	

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Note:
Unauthorized alteration or addition to this drawing is a violation of the New York State Education Law Article 145, Section 7209.

Project Manager: B. Burri	Checked by: B. Burri
Designed by: T. Belt	Drawn by: T. Belt
Date Issued: January 27, 2017	Scale: 1"=30'
Project Number: 12188.00	

GRADING AND EROSION CONTROL PLAN

Drawing Number
DR-PR
1 of 14

STORM WATER POLLUTION PREVENTION PLAN NOTES:

1. THE DEVELOPER/OWNER/OPERATOR SHALL PROVIDE A QUALIFIED INSPECTOR TO INSPECT THE PROJECT AT THE END OF EACH WORK WEEK AND PROVIDE A REPORT AT LEAST ONCE PER WEEK.
2. INSTALL SILT FENCE, DIVERSION SWALES/BERMS, CHECK DAMS AND ALL OTHER EROSION CONTROL MEASURES AS INDICATED ON THE PLAN PRIOR TO THE START OF ANY EXCAVATION WORK. EROSION CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH THE NEW YORK STATE GUIDELINES FOR URBAN EROSION SEDIMENT CONTROL MANUAL, NEW YORK STATE HEALTH DEPARTMENT, AND THE GOVERNING TOWN REQUIREMENTS.
3. CONSTRUCT INTERCEPTOR/DIVERSION SWALES/BERMS & TEMPORARY SEDIMENT BASIN'S TO INTERCEPT SURFACE WATER AND DIRECT IT AWAY FROM WORK AREA AS INDICATED ON PLAN. SEDIMENT SHALL BE REMOVED FROM BASINS BEFORE THEY REACH 25% CAPACITY.
4. REMOVE AND STOCKPILE TOPSOIL AS DIRECTED BY THE CONSTRUCTION MANAGER. WHEN STOCKPILE IS COMPLETE, INSTALL PERIMETER SILT FENCE, SEED SURFACE WITH 100% PERENNIAL RYEGRASS MIXTURE AT A RATE OF 2-4 LBS. PER 1000 SF. APPLY 90-100 LBS PER 1000 SF OF MULCH. REPLACE TOPSOIL TO A MINIMUM 4" DEPTH. ALL DISTURBED AREAS TO BE HYDROSEEDED AS DIRECTED BY THE CONSTRUCTION MANAGER TO PROMOTE VEGETATION AS SOON AS PRACTICABLE.
5. IF THE SEASONS PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW HAY OR EQUIVALENT AND ANCHORED IN ACCORDANCE WITH THE "STANDARDS", NETTING OR LIQUID MULCH BINDER.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND REMOVAL OF TEMPORARY SEDIMENTATION CONTROLS. EROSION CONTROL MEASURES SHALL NOT BE REMOVED BEFORE 80% UNIFORM VEGETATION HAS BEEN ACHIEVED.
7. INSTALL INLET PROTECTION, AND RIP RAP APRONS PROGRESSIVELY AS STORM SEWER, AND DISCHARGE POINTS ARE INSTALLED.
8. ALL EROSION CONTROL MEASURES ARE TO BE REPLACED WHENEVER THEY BECOME CLOGGED OR INOPERABLE AND SHALL BE REPLACED AT A MINIMUM OF EVERY 3 MONTHS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATION OF TOPSOIL TO ALL DISTURBED AREAS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN EROSION CONTROL MEASURES AT ALL TIMES.
10. THE CONTRACTOR SHALL DESIGNATE A MEMBER OF HIS/HER FIRM TO BE RESPONSIBLE TO MONITOR EROSION CONTROL, EROSION CONTROL STRUCTURES, TREE PROTECTION AND PRESERVATION THROUGHOUT CONSTRUCTION.
11. ALL DISTURBED AREAS SHALL BE FINISH GRADED TO PROMOTE VEGETATION ON ALL EXPOSED AREAS AS SOON AS PRACTICABLE. STABILIZATION PRACTICES (TEMPORARY/PERMANENT SEEDING, MULCHING, GEOTEXTILES, ETC.)MUST BE IMPLEMENTED WITHIN SEVEN (7) DAYS WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, AND NOT EXPECTED TO RESUME WITHIN FOURTEEN (14) DAYS.
12. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES. ALL CONSTRUCTION DEBRIS AND SEDIMENT SPOILS, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.
13. DUST SHALL BE CONTROLLED BY WATERING.
14. ADJOINING PROPERTY SHALL BE PROTECTED FROM EXCAVATION AND FILLING OPERATIONS ON THE PROPOSED SITE.
15. DIVERSION SWALES/BERMS, AND SEDIMENT TRAPS SHOULD BE RELOCATED INWARD AS PERIMETER SLOPE CONSTRUCTION PROGRESSES AND RECONSTRUCTED TO THE NYS STANDARDS & SPECIFICATIONS AT THE END OF EACH DAY TO DIVERT RUNOFFF FROM SLOPED AREAS AND DIRECT TO APPROPRIATE BASINS.
16. PERIMETER AREAS SHALL BE TEMPORARILY STABILIZED WITH SEED AND MULCH PROGRESSIVELY A MINIMUMAT AT THE END OF EACH WEEK WITH 100% PERENNIAL RYEGRASS MIX AT A RATE OF 2-4 LBS PER 1000 SF AND MULCH 90-100 lbs/1000 SF OF WEED FREE STRAW.
17. SLOPE TRACKING SHALL BE IMPLIMENTED ON ALL SLOPE 1 ON 3 OR GREATER AT THE END OF EACH WORK DAY AND PRIOR TO FINAL SLOPE GRADING AND STABILIZATION.

WASTE/HAZARDOUS MATERIAL PRACTICES:

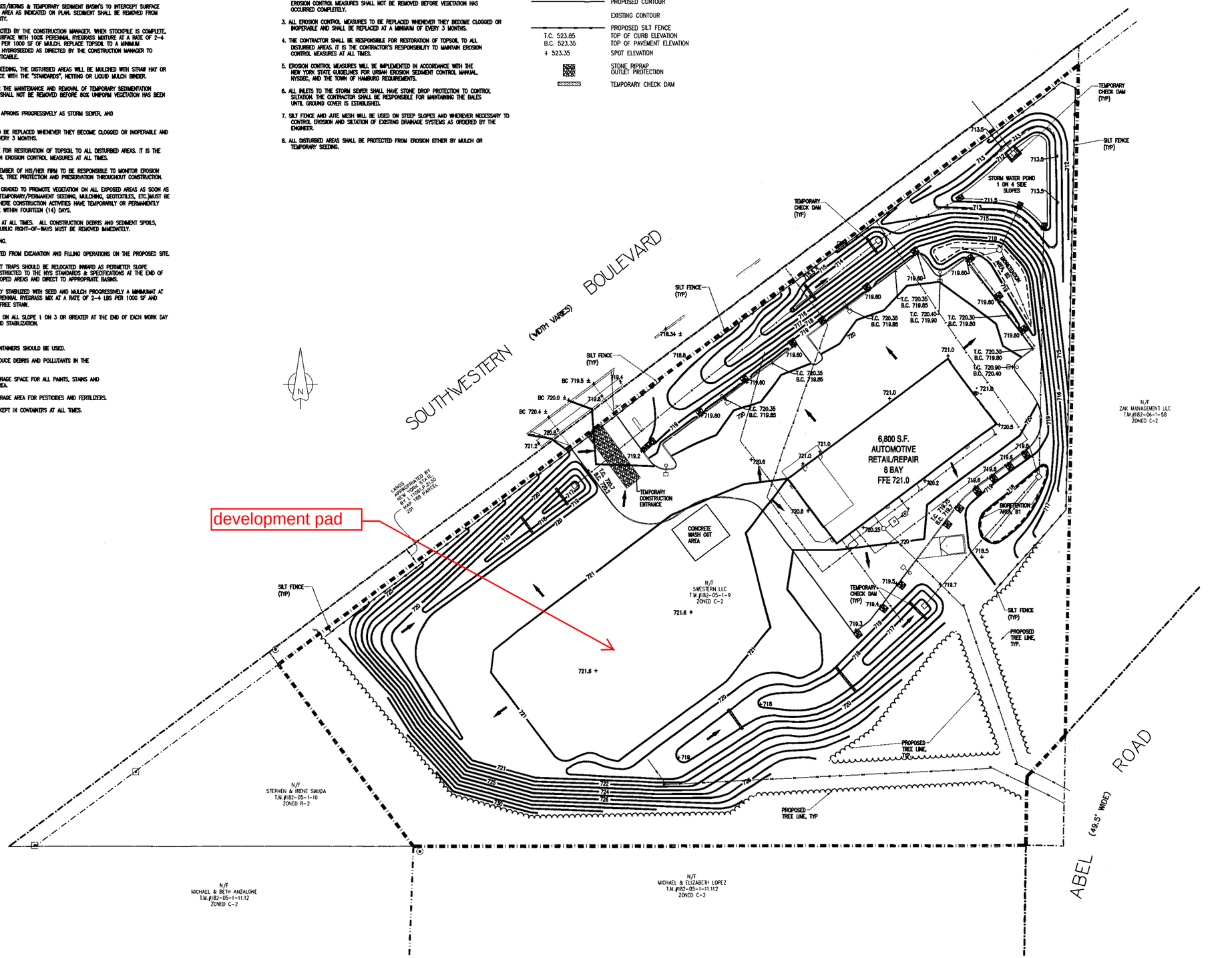
1. WHENEVER POSSIBLE COVERED TRASH CONTAINERS SHOULD BE USED.
2. DAILY SITE CLEANUP IS REQUIRED TO REDUCE DEBRIS AND POLLUTANTS IN THE ENVIRONMENT.
3. CONTRACTOR SHALL PROVIDE A SAFE STORAGE SPACE FOR ALL PAINTS, STAINS AND SOLVENTS INSIDE A COVERED STORAGE AREA.
4. CONTRACTOR SHALL PROVIDE A SAFE STORAGE AREA FOR PESTICIDES AND FERTILIZERS.
5. ALL FUELS, OILS AND GREASE MUST BE KEPT IN CONTAINERS AT ALL TIMES.

GRADING NOTES:

1. REMOVE AND STOCKPILE TOPSOIL AS DIRECTED BY THE CONSTRUCTION MANANGER. REPLACE TOPSOIL TO A MINIMUM 4" DEPTH. ALL DISTURBED AREAS TO BE HYDROSEEDED AS DIRECTED BY THE CONSTRUCTION MANAGER.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND REMOVAL OF TEMPORARY SEDIMENTATION CONTROLS, INCLUDING SILT SINK AND SILT FENCE. EROSION CONTROL MEASURES SHALL NOT BE REMOVED BEFORE VEGETATION HAS OCCURRED COMPLETELY.
3. ALL EROSION CONTROL MEASURES TO BE REPLACED WHENEVER THEY BECOME CLOGGED OR INOPERABLE AND SHALL BE REPLACED AT A MINIMUM OF EVERY 3 MONTHS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATION OF TOPSOIL TO ALL DISTURBED AREAS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN EROSION CONTROL MEASURES AT ALL TIMES.
5. EROSION CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH THE NEW YORK STATE GUIDELINES FOR URBAN EROSION SEDIMENT CONTROL MANUAL, NYSDEC, AND THE TOWN OF HAMBURG REQUIREMENTS.
6. ALL INLETS TO THE STORM SEWER SHALL HAVE STONE DROP PROTECTION TO CONTROL SILTATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE BALES UNTIL GROUND COVER IS ESTABLISHED.
7. SILT FENCE AND JUTE MESH WILL BE USED ON STEEP SLOPES AND WHENEVER NECESSARY TO CONTROL EROSION AND SILTATION OF EXISTING DRAINAGE SYSTEMS AS ORDERED BY THE ENGINEER.
8. ALL DISTURBED AREAS SHALL BE PROTECTED FROM EROSION EITHER BY MULCH OR TEMPORARY SEEDING.

LEGEND

- DRAINAGE FLOW ARROW
- PROPOSED CONTOUR
- EXISTING CONTOUR
- PROPOSED SILT FENCE
- T.C. 523.85 / B.C. 523.35 — TOP OF CURB ELEVATION / TOP OF PAVEMENT ELEVATION
- + 523.35 — SPOT ELEVATION
- STONE RIPRAP OUTLET PROTECTION
- TEMPORARY CHECK DAM



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BERGMANN ASSOCIATES

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260 East Broad Street
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Rochester, NY 14604

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REVISIONS

NO.	DATE	DESCRIPTION	REV. CKD.
1	4-11-17	REVISED DRIVEWAY PER DOT	

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Note:
Unauthorized alteration or addition to this drawing is a violation of the New York State Education Law Article 145, Section 7209.

Project Manager: B. Ruvi	Checked By: B. Ruvi
Designed By: T. Bolt	Drawn By: T. Bolt
Date Issued: January 27, 2017	Scale: 1"=30'
Project Number: 12168.00	

GRADING AND EROSION CONTROL PLAN

Drawing Number: **C120**

7 of 14

Appendix N

Project Plans & Zoning Map

SITE PLAN SET

FOR

PROPOSED CAR WASH

SECTION 182.05, BLOCK 1, LOT 9.2
5363 SOUTHWESTERN BOULEVARD
TOWN OF HAMBURG
ERIE COUNTY, NEW YORK

APPLICANT

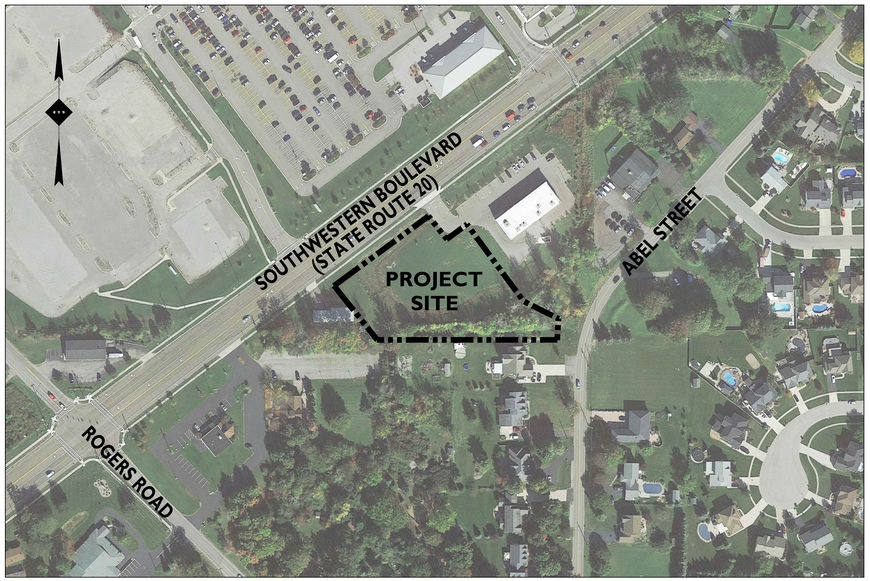
DON YOUNG
HUTTON ST 21, LLC
736 CHERRY STREET
CHATTANOOGA, TENNESSEE 37402
432-647-6822
DYOUNG@HUTTON.BUILD



SOURCE: UNITED STATES GEOLOGICAL SURVEY QUANDRANGLE MAPS, 7.5 SERIES, HAMBURG, NY, DATED 2019

KEY MAP

SCALE: 1" = 500'±



SOURCE: GOOGLE EARTH PRO, RETRIEVED ON 06/01/2022

AERIAL MAP

SCALE: 1" = 150'±

ZONING LEGEND

- C-2
- R-2
- R-A
- PUD



SOURCE: ERIE COUNTY GIS PARCEL VIEWER & ERIE COUNTY ZONING MAP

TAX & ZONING MAP

SCALE: 1" = 150'±

PLANS PREPARED BY:

STONEFIELD engineering & design

Rutherford, NJ · New York, NY · Boston, MA
Princeton, NJ · Tampa, FL · Detroit, MI
www.stonefieldeng.com

Headquarters: 92 Park Avenue, Rutherford, NJ 07070
Phone 201.340.4468 · Fax 201.340.4472

PLAN REFERENCE MATERIALS:

1. THIS PLAN SET REFERENCES THE FOLLOWING DOCUMENTS INCLUDING, BUT NOT LIMITED TO:
   - ALTA/NSPS LAND TITLE SURVEY PREPARED BY STONEFIELD ENGINEERING & DESIGN DATED 06/27/2022
   - GEOTECHNICAL REPORT PREPARED BY TERRACON DATED 07/01/2022
   - AERIAL MAP OBTAINED FROM GOOGLE EARTH PRO IMAGERY DATED 07/14/2022
   - TAX & ZONING MAP OBTAINED FROM ERIE COUNTY INTERACTIVE MAPPING VIEWER & ERIE COUNTY ZONING MAP
   - UNITED STATES GEOLOGICAL SURVEY QUADRANGLE MAPS, 7.5-MINUTE SERIES, ERIE COUNTY, NY, DATED 2019.
2. ALL REFERENCE MATERIAL LISTED ABOVE SHALL BE CONSIDERED A PART OF THIS PLAN SET AND ALL INFORMATION CONTAINED WITHIN THESE MATERIALS SHALL BE UTILIZED IN CONJUNCTION WITH THIS PLAN SET. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN A COPY OF EACH REFERENCE AND REVIEW IT THOROUGHLY PRIOR TO THE START OF CONSTRUCTION.

SHEET INDEX

DRAWING TITLE	SHEET #
COVER SHEET	C-1
DEMOLITION PLAN	C-2
SITE PLAN	C-3
GRADING PLAN	C-4
UTILITY PLAN	C-5
LIGHTING PLAN	C-6
SOIL EROSION & SEDIMENT CONTROL PLAN	C-7
LANDSCAPING PLAN	C-8
LANDSCAPING DETAILS	C-9
CONSTRUCTION DETAILS	C-10 - C-14
SANITARY PROFILES	C-15

ISSUE	DATE	BY	DESCRIPTION
6	03/20/2024	JA	FOR EIS PREPARATION
5	05/23/2023	JA	FOR MUNICIPAL & COUNTY RESUBMISSIONS
4	03/23/2023	JA	FOR MUNICIPAL & COUNTY RESUBMISSIONS
3	03/01/2023	JA	FOR MUNICIPAL & COUNTY RESUBMISSIONS
2	01/20/2023	JLO	PER AXIS KICKOFF REVISIONS
1	01/06/2023	AWA	FOR CLIENT REVIEW

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SITE PLAN SET

HUTTON ST 21, LLC

PROPOSED CAR WASH

SECTION 182.05, BLOCK 1, LOT 9.2
5363 SOUTHWESTERN BOULEVARD
TOWN OF HAMBURG
ERIE COUNTY, NEW YORK

JEFFREY A. MARTELL, P.E.
NEW YORK LICENSE No. 86502
LICENSED PROFESSIONAL ENGINEER

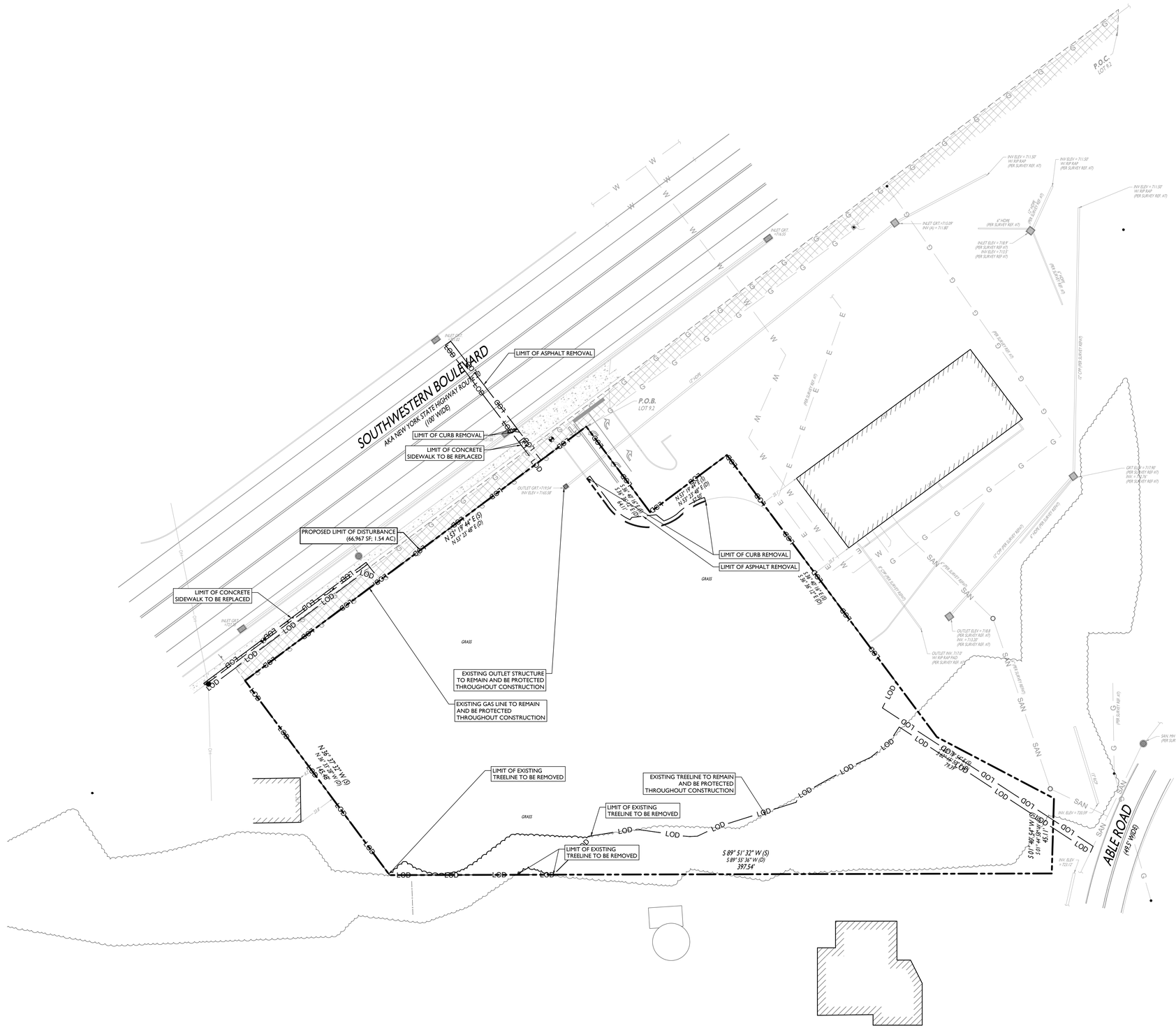
STONEFIELD engineering & design

SCALE: AS SHOWN | PROJECT ID: RUT-220250

TITLE: COVER SHEET

DRAWING: C-1

Z:\AUTHOR\DRAWFILES\2022\AUT-220250 HUTTON GROUP - 5363 SOUTHWESTERN BOULEVARD, HAMBURG, NY\CAD\DP-FOTP\MAIN\C-COVER.DWG



SYMBOL	DESCRIPTION
– — — — —	FEATURE TO BE REMOVED / DEMOLISHED
LOD	LIMIT OF DISTURBANCE
– — — — —	SAWCUT LINE

ALL SITE FEATURES WITHIN THE LIMIT OF DISTURBANCE INDICATED ON THIS PLAN ARE TO BE REMOVED / DEMOLISHED UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. IF SIGNIFICANT DISCREPANCIES ARE DISCERNED BETWEEN THIS PLAN AND FIELD CONDITIONS

DEMOLITION NOTES

1. THE WORK REFLECTED ON THE DEMOLITION PLAN IS TO PROVIDE GENERAL INFORMATION TOWARDS THE EXISTING ITEMS TO BE DEMOLISHED AND/OR REMOVED. THE CONTRACTOR IS RESPONSIBLE TO REVIEW THE ENTIRE PLAN SET AND ASSOCIATED REPORTS/REFERENCE DOCUMENTS INCLUDING ALL DEMOLITION ACTIVITIES AND INCIDENTAL TASKS NECESSARY TO COMPLETE THE SITE IMPROVEMENTS.
2. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE THE MEANS AND METHODS OF DEMOLITION ACTIVITIES.
3. EXPLOSIVES SHALL NOT BE USED UNLESS WRITTEN CONSENT FROM BOTH THE OWNER AND ANY APPLICABLE GOVERNING AGENCY IS OBTAINED. BEFORE THE START OF ANY EXPLOSIVE PROGRAM, THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL LOCAL, STATE, AND FEDERAL PERMITS. ADDITIONALLY, THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL SEISMIC TESTING AS REQUIRED AND ANY DAMAGES AS THE RESULT OF SAID DEMOLITION PRACTICES.
4. ALL DEMOLITION ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL CODES. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL UTILITIES ARE DISCONNECTED IN ACCORDANCE WITH THE UTILITY AUTHORITY'S REQUIREMENTS PRIOR TO STARTING THE DEMOLITION OF ANY STRUCTURE. ALL EXCAVATIONS ASSOCIATED WITH DEMOLISHED STRUCTURES OR REMOVED TANKS SHALL BE BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED TO SUPPORT SITE AND BUILDING IMPROVEMENTS. A GEOTECHNICAL ENGINEER SHOULD BE PRESENT DURING BACKFILLING ACTIVITIES TO OBSERVE AND CERTIFY THAT BACKFILL MATERIAL WAS COMPACTED TO A SUITABLE CONDITION.
5. DEMOLISHED DEBRIS SHALL NOT BE BURIED ON SITE. ALL WASTE/DEBRIS GENERATED FROM DEMOLITION ACTIVITIES SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL RECORDS OF THE DISPOSAL TO DEMONSTRATE COMPLIANCE WITH THE ABOVE REGULATIONS.

30' 0' 30' 60'

GRAPHIC SCALE IN FEET
1" = 30'

ISSUE	DATE	BY	DESCRIPTION
6	03/20/2024	JA	FOR EIS PREPARATION
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SITE PLAN SET

HUTTON ST 21, LLC

PROPOSED CAR WASH

SECTION I.02.05 BLOCK 1, LOT 9.2
3565 SOUTHWESTERN BOULEVARD
TOWN OF HAMBURG
ERIE COUNTY, NEW YORK

Mod Wash

JEFFREY A. MARTELL, P.E.
NEW YORK LICENSE No. 86502
LICENSED PROFESSIONAL ENGINEER

STONEFIELD engineering & design

SCALE: 1" = 30' | PROJECT ID: RUT-220250

TITLE:

DEMOLITION PLAN

DRAWING:

C-2

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LAND USE AND ZONING

MAP 182.05, BLOCK 1, LOT 9.2

GENERAL COMMERCIAL DISTRICT (C-2)

PROPOSED USE
CAR WASH — SPECIAL PERMIT

ZONING REQUIREMENT	REQUIRED	PROPOSED
MINIMUM LOT WIDTH	100 FT	310 FT
MAXIMUM BUILDING HEIGHT	35 FT	< 35 FT
MAXIMUM LOT COVERAGE	85% (68,434 SF)	40.0% (32,012 SF)
MINIMUM FRONT YARD SETBACK	40 FT	139.5 FT
MINIMUM SIDE YARD SETBACK (RESIDENTIAL)	20 FT	42.7 FT
MINIMUM SIDE YARD SETBACK (NON-RESIDENTIAL)	5 FT	73.6 FT

SPECIAL PERMIT CONDITIONS

CODE SECTION	REQUIRED	PROPOSED
§ 280-323. A.	THESE FACILITIES SHALL NOT BE LOCATED WITHIN 200 FT OF ANY RESIDENTIAL STRUCTURE OR WITHIN 500 FEET OF ANOTHER SUCH FACILITY	48.1 FT (*) 150.8 FT (*)
§ 280-323. B.	ARCHITECTURAL FEATURES OF THE CAR WASH BUILDINGS AND OTHER BUILDINGS ON THE PROPERTY IN HARMONY WITH THE SURROUNDING USES	COMPLIES
§ 280-323. C.	VISIBILITY FROM THE ROAD SHALL BE MINIMIZED THROUGH PROPER SITING, SETBACKS, EXISTING TOPOGRAPHIC FEATURES, BERMING AND LANDSCAPING FEATURES.	COMPLIES

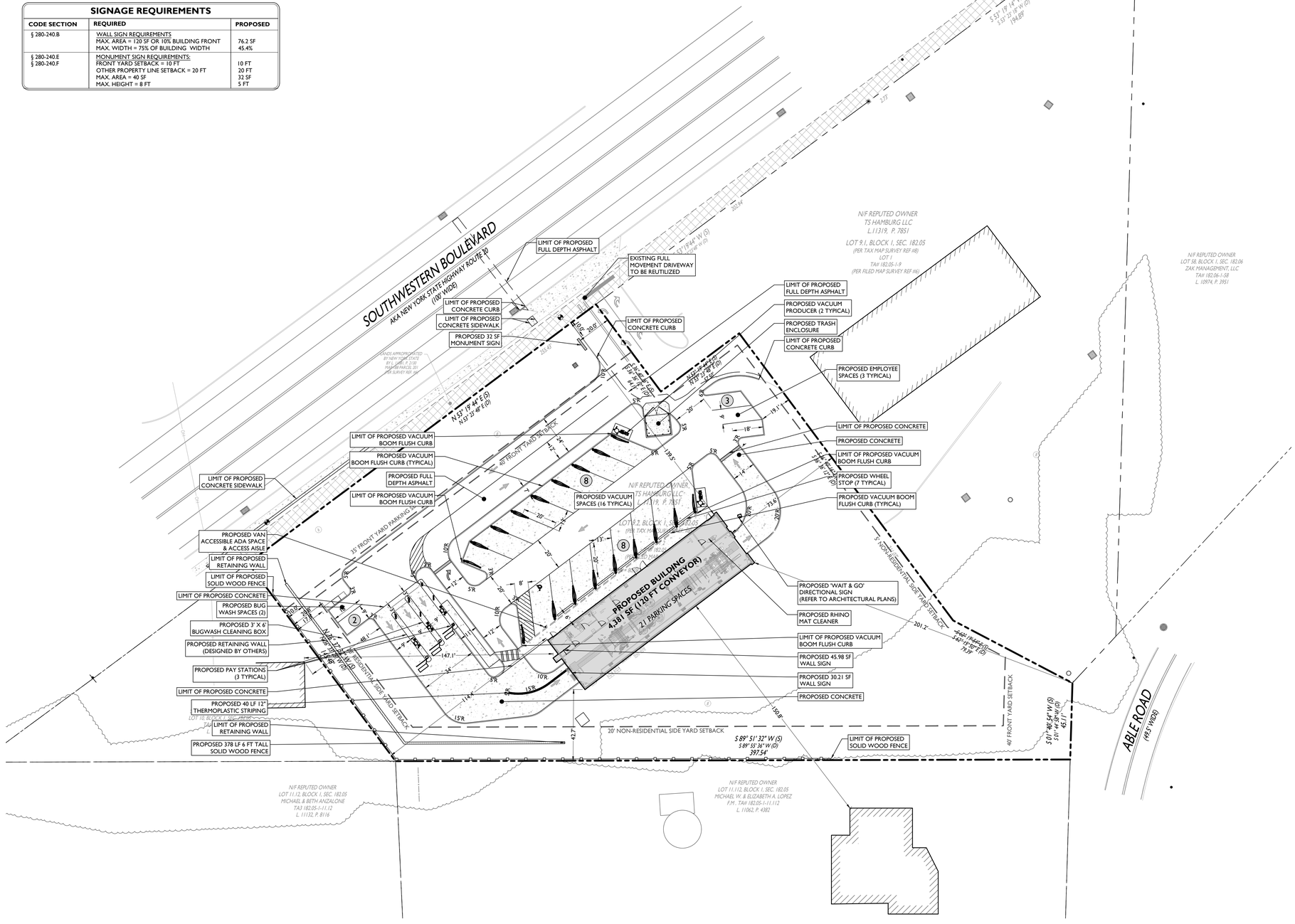
(*) VARIANCES APPROVED AT 12/6/22 ZONING BOARD MEETING

OFF-STREET PARKING REQUIREMENTS

CODE SECTION	REQUIRED	PROPOSED
§ 280-215. A.	TO BE DETERMINED BY PLANNING BOARD	21 SPACES
§ 280-229. B.	NO OFF STREET PARKING SHALL BE PERMITTED WITHIN 35 FT OF ANY STREET LINE, OR 10 FT OF ANY SIDE OR REAR LOT LINE	COMPLIES 20.8 FT

SIGNAGE REQUIREMENTS

CODE SECTION	REQUIRED	PROPOSED
§ 280-240.B	WALL SIGN REQUIREMENTS MAX. AREA = 120 SF OR 10% BUILDING FRONT MAX. WIDTH = 75% OF BUILDING WIDTH	76.2 SF 45.4%
§ 280-240.E § 280-240.F	MONUMENT SIGN REQUIREMENTS: FRONT YARD SETBACK = 10 FT OTHER PROPERTY LINE SETBACK = 20 FT MAX. AREA = 40 SF MAX. HEIGHT = 8 FT	10 FT 20 FT 32 SF 5 FT



SYMBOL / DESCRIPTION

- PROPERTY LINE
- SETBACK LINE
- SAWCUT LINE
- PROPOSED CURB
- PROPOSED FLUSH CURB
- PROPOSED SIGNS / BOLLARDS
- PROPOSED BUILDING
- PROPOSED CONCRETE
- PROPOSED BUILDING DOORS

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY AND FAMILIARIZE THEMSELVES WITH THE EXISTING SITE CONDITIONS AND THE PROPOSED SCOPE OF WORK (INCLUDING DIMENSIONS, LAYOUT, ETC.) PRIOR TO INITIATING THE IMPROVEMENTS IDENTIFIED WITHIN THESE DOCUMENTS. SHOULD ANY DISCREPANCY BE FOUND BETWEEN THE EXISTING SITE CONDITIONS AND THE PROPOSED WORK THE CONTRACTOR SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. PRIOR TO THE START OF CONSTRUCTION.
2. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND ENSURE THAT ALL REQUIRED APPROVALS HAVE BEEN OBTAINED PRIOR TO THE START OF CONSTRUCTION. COPIES OF ALL REQUIRED PERMITS AND APPROVALS SHALL BE KEPT ON SITE AT ALL TIMES DURING CONSTRUCTION.
3. ALL CONTRACTORS WILL TO THE FULLEST EXTENT PERMITTED BY LAW, INDEMNIFY AND HOLD HARMLESS STONEFIELD ENGINEERING & DESIGN, LLC. AND IT'S SUB-CONSULTANTS FROM AND AGAINST ANY DAMAGES AND LIABILITIES INCLUDING ATTORNEY'S FEES ARISING OUT OF CLAIMS BY EMPLOYEES OF THE CONTRACTOR IN ADDITION TO CLAIMS CONNECTED TO THE PROJECT AS A RESULT OF NOT CARRYING THE PROPER INSURANCE FOR WORKERS COMPENSATION, LIABILITY INSURANCE, AND LIMITS OF COMMERCIAL GENERAL LIABILITY INSURANCE.
4. THE CONTRACTOR SHALL NOT DEVIATE FROM THE PROPOSED IMPROVEMENTS IDENTIFIED WITHIN THIS PLAN SET UNLESS APPROVAL IS PROVIDED IN WRITING BY STONEFIELD ENGINEERING & DESIGN, LLC.
5. THE CONTRACTOR IS RESPONSIBLE TO DETERMINE THE MEANS AND METHODS OF CONSTRUCTION.
6. THE CONTRACTOR SHALL NOT PERFORM ANY WORK OR CAUSE DISTURBANCE ON A PRIVATE PROPERTY NOT CONTROLLED BY THE PERSON OR ENTITY WHO HAS AUTHORIZED THE WORK WITHOUT PRIOR WRITTEN CONSENT FROM THE OWNER OF THE PRIVATE PROPERTY.
7. THE CONTRACTOR IS RESPONSIBLE TO RESTORE ANY DAMAGED OR UNDERMINED STRUCTURE OR SITE FEATURE THAT IS IDENTIFIED TO REMAIN ON THE PLAN SET. ALL REPAIRS SHALL USE NEW MATERIALS TO RESTORE THE FEATURE TO ITS EXISTING CONDITION AT THE CONTRACTORS EXPENSE.
8. CONTRACTOR IS RESPONSIBLE TO PROVIDE THE APPROPRIATE SHOP DRAWINGS, PRODUCT DATA, AND OTHER REQUIRED SUBMITTALS FOR REVIEW. STONEFIELD ENGINEERING & DESIGN, LLC. WILL REVIEW THE SUBMITTALS IN ACCORDANCE WITH THE DESIGN INTENT AS REFLECTED WITHIN THE PLAN SET.
9. THE CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL IN ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
10. THE CONTRACTOR IS REQUIRED TO PERFORM ALL WORK IN THE PUBLIC RIGHT-OF-WAY IN ACCORDANCE WITH THE APPROPRIATE GOVERNING AUTHORITY AND SHALL BE RESPONSIBLE FOR THE PROCUREMENT OF STREET OPENING PERMITS.
11. THE CONTRACTOR IS REQUIRED TO RETAIN AN OSHA CERTIFIED SAFETY INSPECTOR TO BE PRESENT ON SITE AT ALL TIMES DURING CONSTRUCTION & DEMOLITION ACTIVITIES.
12. SHOULD AN EMPLOYEE OF STONEFIELD ENGINEERING & DESIGN, LLC. BE PRESENT ON SITE AT ANY TIME DURING CONSTRUCTION, IT DOES NOT RELIEVE THE CONTRACTOR OF ANY OF THE RESPONSIBILITIES AND REQUIREMENTS LISTED IN THE NOTES WITHIN THIS PLAN SET.

30' 0' 30' 60'
GRAPHIC SCALE IN FEET
1" = 30'

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6	03/20/2024	JA	FOR EIS PREPARATION
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SITE PLAN SET

HUTTON ST 21, LLC

PROPOSED CAR WASH

SECTION 182.05, BLOCK 1, LOT 9.2
5563 SOUTHWESTERN BOULEVARD
TOWN OF HAMBURG
ERIE COUNTY, NEW YORK

Mod Wash

JEFFREY A. MARTELL, P.E.
NEW YORK LICENSE No. 86502
LICENSED PROFESSIONAL ENGINEER

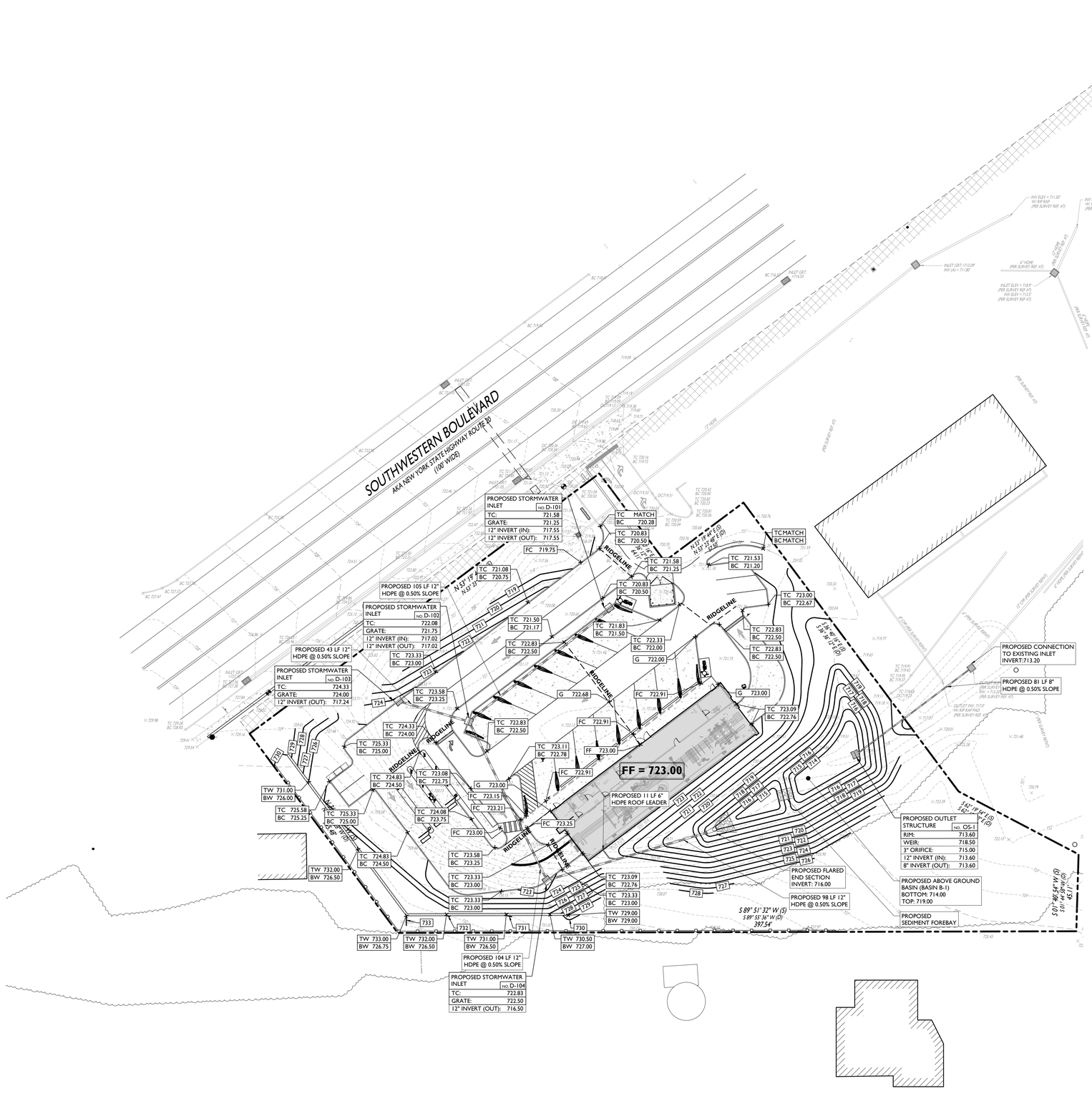
STONEFIELD engineering & design

SCALE: 1" = 30' | PROJECT ID: RUT-220250

TITLE: SITE PLAN

DRAWING: C-3

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SYMBOL / DESCRIPTION

SYMBOL	DESCRIPTION
	PROPERTY LINE
100	PROPOSED GRADING CONTOUR
RIDGELINE	PROPOSED GRADING RIDGELINE
G 100.00	PROPOSED GRADE SPOT SHOT
TC 100.50 / BC 100.00	PROPOSED TOP OF CURB / BOTTOM OF CURB SPOT SHOT
FC 100.00	PROPOSED FLUSH CURB SPOT SHOT
TW 102.00 / BW 100.00	PROPOSED TOP OF WALL / BOTTOM OF WALL SPOT SHOT
	PROPOSED STORMWATER PIPE
	PROPOSED STORMWATER INLET
	PROPOSED OUTLET STRUCTURE

DRAINAGE AND UTILITY NOTES

1. THE CONTRACTOR IS REQUIRED TO CALL THE APPROPRIATE AUTHORITY FOR NOTICE OF CONSTRUCTION/EXCAVATION AND UTILITY MARK OUT PRIOR TO THE START OF CONSTRUCTION IN ACCORDANCE WITH STATE LAW. CONTRACTOR IS REQUIRED TO CONFIRM THE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES IN THE FIELD. SHOULD A DISCREPANCY EXIST BETWEEN THE FIELD LOCATION OF A UTILITY AND THE LOCATION SHOWN ON THE PLAN SET OR SURVEY, THE CONTRACTOR SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. IMMEDIATELY IN WRITING.
2. THE CONTRACTOR IS RESPONSIBLE TO PROTECT AND MAINTAIN IN OPERATION ALL UTILITIES NOT DESIGNATED TO BE REMOVED.
3. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO ANY EXISTING UTILITY IDENTIFIED TO REMAIN WITHIN THE LIMITS OF THE PROPOSED WORK DURING CONSTRUCTION.
4. A MINIMUM HORIZONTAL SEPARATION OF 10 FEET IS REQUIRED BETWEEN ANY SANITARY SEWER SERVICE AND ANY WATER LINES. IF THIS SEPARATION CANNOT BE PROVIDED, A CONCRETE ENCASEMENT SHALL BE UTILIZED FOR THE SANITARY SEWER SERVICE AS APPROVED BY STONEFIELD ENGINEERING & DESIGN, LLC.
5. ALL WATER LINES SHALL BE VERTICALLY SEPARATED ABOVE SANITARY SEWER LINES BY A MINIMUM DISTANCE OF 18 INCHES. IF THIS SEPARATION CANNOT BE PROVIDED, A CONCRETE ENCASEMENT SHALL BE UTILIZED FOR THE SANITARY SEWER SERVICE AS APPROVED BY STONEFIELD ENGINEERING & DESIGN, LLC.
6. THE CONTRACTOR TO PERFORM A TEST PIT PRIOR TO CONSTRUCTION (RECOMMEND 30 DAYS PRIOR) AT LOCATIONS OF EXISTING UTILITY CROSSINGS FOR WATER AND SANITARY SEWER CONNECTION IMPROVEMENTS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. IN WRITING.
7. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING GAS, ELECTRIC AND TELECOMMUNICATION CONNECTIONS WITH THE APPROPRIATE GOVERNING AUTHORITY.
8. CONTRACTOR SHALL START CONSTRUCTION OF ANY GRAVITY SEWER AT THE LOWEST INVERT AND WORK UP-GRADIENT.
9. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN A RECORD SET OF PLANS REFLECTING THE LOCATION OF EXISTING UTILITIES THAT HAVE BEEN CAPPED, ABANDONED, OR RELOCATED BASED ON THE DEMOLITION/REMOVAL ACTIVITIES REQUIRED IN THIS PLAN SET. THIS DOCUMENT SHALL BE PROVIDED TO THE OWNER FOLLOWING COMPLETION OF WORK.
10. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN A RECORD OF THE AS-BUILT LOCATIONS OF ALL PROPOSED UNDERGROUND INFRASTRUCTURE. THE CONTRACTOR SHALL NOTE ANY DISCREPANCIES BETWEEN THE AS-BUILT LOCATIONS AND THE LOCATIONS DEPICTED WITHIN THE PLAN SET. THIS RECORD SHALL BE PROVIDED TO THE OWNER FOLLOWING COMPLETION OF WORK.

GRADING NOTES

1. ALL SOIL AND MATERIAL REMOVED FROM THE SITE SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS. ANY GROUNDWATER DE-WATERING PRACTICES SHALL BE PERFORMED UNDER THE SUPERVISION OF A QUALIFIED PROFESSIONAL. THE CONTRACTOR IS REQUIRED TO OBTAIN ALL NECESSARY PERMITS FOR THE DISCHARGE OF DE-WATERED GROUNDWATER. ALL SOIL IMPORTED TO THE SITE SHALL BE CERTIFIED CLEAN FILL. CONTRACTOR SHALL MAINTAIN RECORDS OF ALL FILL MATERIALS BROUGHT TO THE SITE.
2. THE CONTRACTOR IS REQUIRED TO PROVIDE TEMPORARY AND/OR PERMANENT SHORING WHERE REQUIRED DURING EXCAVATION ACTIVITIES, INCLUDING BUT NOT LIMITED TO UTILITY TRENCHES, TO ENSURE THE STRUCTURAL INTEGRITY OF NEARBY STRUCTURES AND STABILITY OF THE SURROUNDING SOILS.
3. PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY 4 INCHES TO 7 INCHES ABOVE EXISTING GRADES UNLESS OTHERWISE NOTED. THE CONTRACTOR WILL SUPPLY ALL STAKEOUT CURB GRADE SHEETS TO STONEFIELD ENGINEERING & DESIGN, LLC. FOR REVIEW AND APPROVAL PRIOR TO POURING CURBS.
4. THE CONTRACTOR IS RESPONSIBLE TO SET ALL PROPOSED UTILITY COVERS AND RESET ALL EXISTING UTILITY COVERS WITHIN THE PROJECT LIMITS TO PROPOSED GRADE IN ACCORDANCE WITH ANY APPLICABLE MUNICIPAL, COUNTY, STATE AND/OR UTILITY AUTHORITY REGULATIONS.
5. MINIMUM SLOPE REQUIREMENTS TO PREVENT PONDING SHALL BE AS FOLLOWS:
   - CURB GUTTER: 0.50%
   - CONCRETE SURFACES: 1.00%
   - ASPHALT SURFACES: 1.00%
5. A MINIMUM SLOPE OF 1.00% SHALL BE PROVIDED AWAY FROM ALL BUILDINGS. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE FROM THE BUILDING IS ACHIEVED AND SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. IF THIS CONDITION CANNOT BE MET.
6. FOR PROJECTS WHERE BASEMENTS ARE PROPOSED, THE DEVELOPER IS RESPONSIBLE TO DETERMINE THE DEPTH TO GROUNDWATER AT THE LOCATION OF THE PROPOSED STRUCTURE. IF GROUNDWATER IS ENCOUNTERED WITHIN THE BASEMENT AREA, SPECIAL CONSTRUCTION METHODS SHALL BE UTILIZED AND REVIEWED/APPROVED BY THE CONSTRUCTION CODE OFFICIAL. IF SUMP PUMPS ARE UTILIZED, ALL DISCHARGES SHALL BE CONNECTED DIRECTLY TO THE PUBLIC STORM SEWER SYSTEM WITH APPROVAL FROM THE GOVERNING STORM SEWER SYSTEM AUTHORITY.

ADA NOTES

1. THE CONTRACTOR SHALL MAINTAIN A MAXIMUM 2.00% SLOPE IN ANY DIRECTION WITHIN THE ADA PARKING SPACES AND ACCESS AISLES.
2. THE CONTRACTOR SHALL PROVIDE COMPLIANT SIGNAGE AT ALL ADA PARKING AREAS IN ACCORDANCE WITH STATE GUIDELINES.
3. THE CONTRACTOR SHALL MAINTAIN A MAXIMUM 5.00% RUNNING SLOPE AND A MAXIMUM OF 2.00% CROSS SLOPE ALONG WALKWAYS WITHIN THE ACCESSIBLE PATH OF TRAVEL (SEE THE SITE PLAN FOR THE LOCATION OF THE ACCESSIBLE PATH). THE CONTRACTOR IS RESPONSIBLE TO ENSURE THE ACCESSIBLE PATH OF TRAVEL IS 36 INCHES WIDE OR GREATER UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET.
4. THE CONTRACTOR SHALL MAINTAIN A MAXIMUM 2.00% SLOPE IN ANY DIRECTION AT ALL LANDINGS. LANDINGS INCLUDE, BUT ARE NOT LIMITED TO, THE TOP AND BOTTOM OF AN ACCESSIBLE RAMP, AT ACCESSIBLE BUILDING ENTRANCES, AT AN AREA IN FRONT OF A WALK-UP ATM, AND AT TURNING SPACES ALONG THE ACCESSIBLE PATH OF TRAVEL. THE LANDING AREA SHALL HAVE A MINIMUM CLEAR AREA OF 60 INCHES BY 60 INCHES UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET.
5. THE CONTRACTOR SHALL MAINTAIN A MAXIMUM 8.33% RUNNING SLOPE AND A MAXIMUM 2.00% CROSS SLOPE ON ANY CURB RAMPS ALONG THE ACCESSIBLE PATH OF TRAVEL. WHERE PROVIDED, CURB RAMP FLARES SHALL NOT HAVE A SLOPE GREATER THAN 10.00%. IF A LANDING AREA IS PROVIDED AT THE TOP OF THE RAMP. FOR ALTERATIONS, A CURB RAMP FLARES SHALL NOT HAVE A SLOPE GREATER THAN 8.33% IF A LANDING AREA IS NOT PROVIDED AT THE TOP OF THE RAMP. CURBS RAMPS SHALL NOT RISE MORE THAN 6 INCHES IN ELEVATION WITHOUT A HANDRAIL. THE CLEAR WIDTH OF A CURB RAMP SHALL BE NO LESS THAN 36 INCHES WIDE.
6. ACCESSIBLE RAMPS WITH A RISE GREATER THAN 6 INCHES SHALL CONTAIN COMPLIANT HANDRAILS ON BOTH SIDES OF THE RAMP AND SHALL NOT RISE MORE THAN 30" IN ELEVATION WITHOUT A LANDING AREA IN BETWEEN RAMP RUNS. LANDING AREAS SHALL ALSO BE PROVIDED AT THE TOP AND BOTTOM OF THE RAMP.
7. A SLIP RESISTANT SURFACE SHALL BE CONSTRUCTED ALONG THE ACCESSIBLE PATH AND WITHIN ADA PARKING AREAS.
8. THE CONTRACTOR SHALL ENSURE A MAXIMUM OF ¼ INCHES VERTICAL CHANGE IN LEVEL ALONG THE ACCESSIBLE PATH. WHERE A CHANGE IN LEVEL BETWEEN ¼ INCHES AND ½ INCHES EXISTS, CONTRACTOR SHALL ENSURE THAT THE TOP ¼ INCH CHANGE IN LEVEL IS BEVELED WITH A SLOPE NOT STEEPER THAN 1 UNIT VERTICAL AND 2 UNITS HORIZONTAL (2:1 SLOPE).
9. THE CONTRACTOR SHALL ENSURE THAT ANY OPENINGS (GAPS OR HORIZONTAL SEPARATION) ALONG THE ACCESSIBLE PATH SHALL NOT ALLOW PASSAGE OF A SPHERE GREATER THAN ½ INCH.

30' 0' 30' 60'
GRAPHIC SCALE IN FEET
1" = 30'

ISSUE	DATE	BY	DESCRIPTION
6	03/20/2024	JA	FOR EIS PREPARATION
5	05/23/2023	JA	FOR MUNICIPAL & COUNTY RESUBMISSIONS
4	03/23/2023	JA	FOR MUNICIPAL & COUNTY RESUBMISSIONS
3	03/01/2023	JA	FOR MUNICIPAL & COUNTY RESUBMISSIONS
2	01/20/2023	JLO	PER AXIS KICKOFF REVISIONS
1	01/06/2023	AWVA	FOR CLIENT REVIEW

NOT APPROVED FOR CONSTRUCTION

STONEFIELD engineering & design
Rutherford, NJ · New York, NY · Boston, MA
Princeton, NJ · Tampa, FL · Detroit, MI
www.stonefieldeng.com
Headquarters: 92 Park Avenue, Rutherford, NJ 07070
Phone 201.340.4468 · Fax 201.340.4472

SITE PLAN SET

HUTTON ST 21, LLC

PROPOSED CAR WASH

SECTION 120.05, BLOCK 1, LOT 9.2
3363 SOUTHWESTERN BOULEVARD
TOWN OF HAMBURG
ERIE COUNTY, NEW YORK

JEFFREY A. MARTELL, P.E.
NEW YORK LICENSE No. 86502
LICENSED PROFESSIONAL ENGINEER

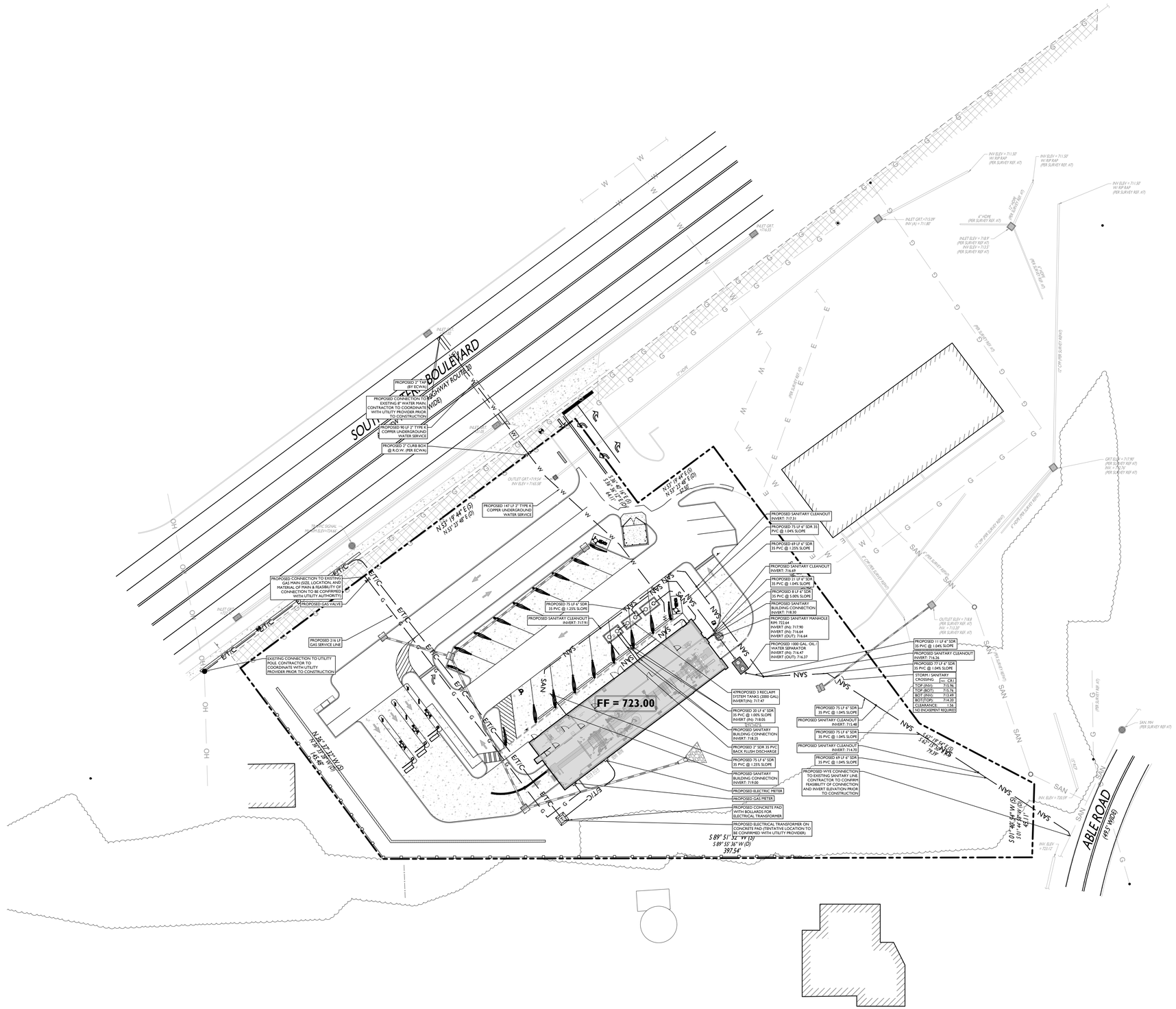
STONEFIELD engineering & design

SCALE: 1" = 30' | PROJECT ID: RUT-220250

TITLE: GRADING & DRAINAGE PLAN

DRAWING: C-4

Z:\RUT\PROPOSAL\7-2020\RUT-220250 HUTTON GROUP - 3363 SOUTHWESTERN BOULEVARD, HAMBURG, NY\CAD\PLOTTING\PLAN GRADING.DWG


SOUTHWESTERN BOULEVARD
(RT. 5 - VARIABLE WIDTH HIGHWAY ROUTE 1 & 20 WIDE)
ABLE ROAD
(VARIABLE WIDTH)
PROPOSED CONNECTION TO EXISTING 8" WATER MAIN. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER PRIOR TO CONSTRUCTION
PROPOSED W/ LF 2" TYPE K COPPER UNDERGROUND WATER SERVICE
PROPOSED 2" CURB BOX @ R.O.W. (PER ECWA)
PROPOSED 147 LF 2" TYPE K COPPER UNDERGROUND WATER SERVICE
PROPOSED CONNECTION TO EXISTING GAS MAIN (SIZE, LOCATION, AND MATERIAL OF MAIN & FEASIBILITY OF CONNECTION TO BE CONFIRMED WITH UTILITY AUTHORITY)
PROPOSED GAS VALVE
PROPOSED 216 LF GAS SERVICE LINE
EXISTING CONNECTION TO UTILITY POLE. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER PRIOR TO CONSTRUCTION
FF = 723.00
PROPOSED SANITARY CLEANOUT INVERT: 717.31
PROPOSED 75 LF 4" SDR 35 PVC @ 1.04% SLOPE
PROPOSED 69 LF 6" SDR 35 PVC @ 1.32% SLOPE
PROPOSED SANITARY CLEANOUT INVERT: 716.69
PROPOSED 21 LF 6" SDR 35 PVC @ 1.04% SLOPE
PROPOSED 81 LF 6" SDR 35 PVC @ 5.00% SLOPE
PROPOSED SANITARY BUILDING CONNECTION INVERT: 718.32
PROPOSED SANITARY MANHOLE RIM: 722.84 INVERT (IN): 717.90 INVERT (IN): 716.64 INVERT (OUT): 716.64
PROPOSED 1000 GAL. OIL / WATER SEPARATOR INVERT (IN): 716.47 INVERT (OUT): 716.37
PROPOSED 75 LF 6" SDR 35 PVC @ 1.25% SLOPE
PROPOSED SANITARY CLEANOUT INVERT: 717.91
479PROPOSED 3 RECLAIM SYSTEM TANKS (3000 GAL) INVERT(IN): 717.47
PROPOSED 20 LF 6" SDR 35 PVC @ 1.00% SLOPE INVERT (IN): 718.05
PROPOSED SANITARY BUILDING CONNECTION INVERT: 718.25
PROPOSED 3" SDR 35 PVC BACK FLUSH DISCHARGE
PROPOSED 75 LF 6" SDR 35 PVC @ 1.25% SLOPE
PROPOSED SANITARY BUILDING CONNECTION INVERT: 719.00
PROPOSED ELECTRIC METER
PROPOSED GAS METER
PROPOSED CONCRETE PAD WITH BOLLARDS FOR ELECTRICAL TRANSFORMER
PROPOSED ELECTRICAL TRANSFORMER ON CONCRETE PAD (TENTATIVE LOCATION TO BE CONFIRMED WITH UTILITY PROVIDER)
PROPOSED 11 LF 4" SDR 35 PVC @ 1.04% SLOPE
PROPOSED SANITARY CLEANOUT INVERT: 714.36
PROPOSED 77 LF 6" SDR 35 PVC @ 1.04% SLOPE
STORM / SANITARY CROSSING: (=: CR.)
TOP (INV): 715.96
TOP (BOT): 715.76
BOT (INV): 713.49
BOT(TOP): 714.30
CLEARANCE: 1.56
NO ENCASMENT REQUIRED
PROPOSED 75 LF 6" SDR 35 PVC @ 1.04% SLOPE
PROPOSED SANITARY CLEANOUT INVERT: 715.48
PROPOSED 75 LF 6" SDR 35 PVC @ 1.04% SLOPE
PROPOSED SANITARY CLEANOUT INVERT: 714.70
PROPOSED 69 LF 6" SDR 35 PVC @ 1.04% SLOPE
PROPOSED WYE CONNECTION TO EXISTING SANITARY LINE. CONTRACTOR TO CONFIRM FEASIBILITY OF CONNECTION AND INVERT ELEVATION PRIOR TO CONSTRUCTION
142 LF 15" SDR 35 PVC @ 3.82%
N.34° 23' 22"W. (C)
N.34° 23' 22"W. (D)
145.98' (C)
145.98' (D)
S.89° 51' 32" W. (C)
S.89° 55' 36" W. (D)
397.54'
N.55° 19' 44" E. (D)
N.55° 13' 48" E. (C)



AREA LIGHT (A, B, C)

NOT TO SCALE

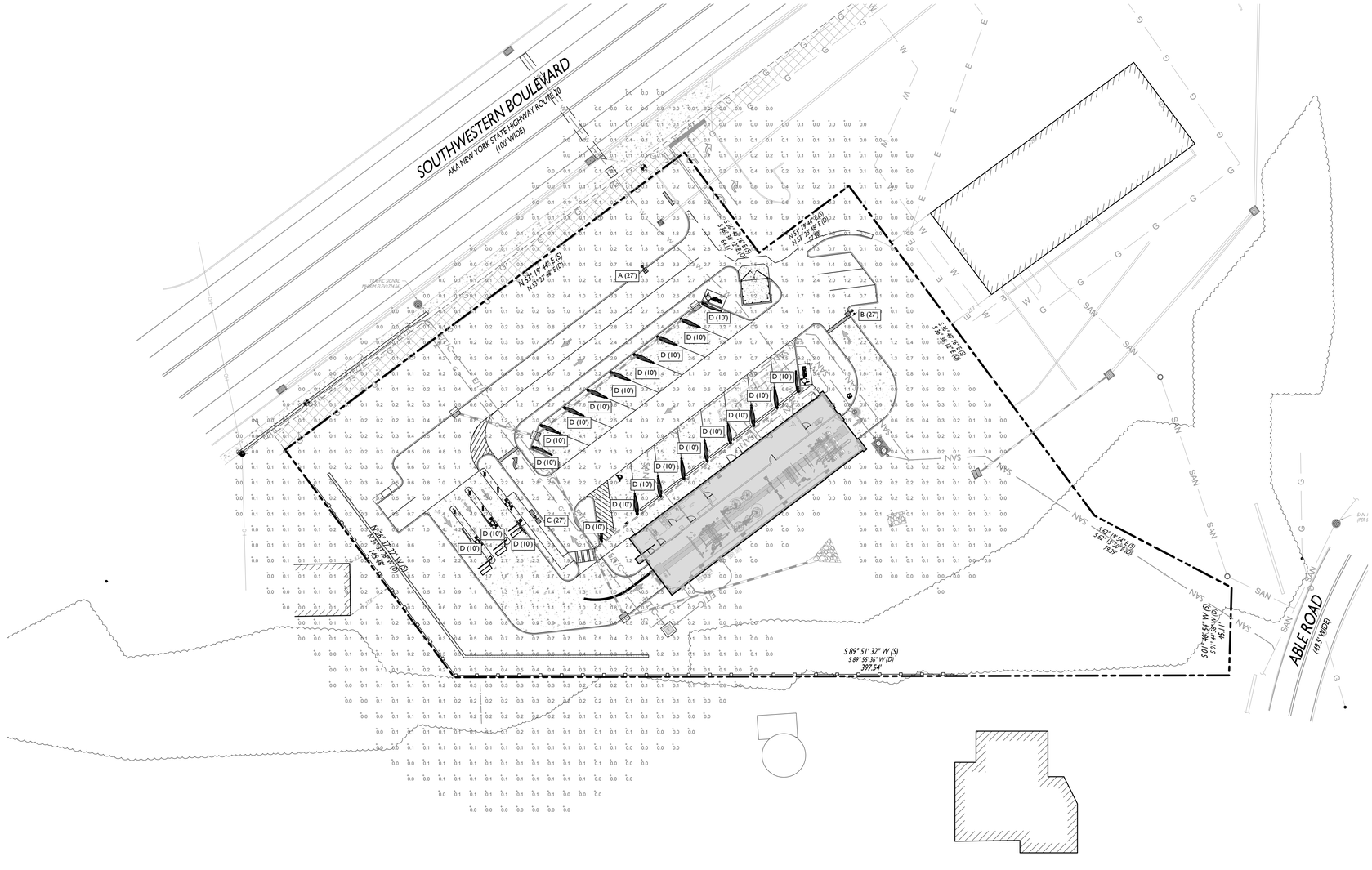


DRIVERLESS AC LIGHT (D)

NOT TO SCALE

PROPOSED LUMINAIRE SCHEDULE						
SYMBOL	LABEL	QUANTITY	SECURITY LIGHTING	DISTRIBUTION	LLF	MANUFACTURER
	A	1	COOPER LIGHTING PRV AREA LIGHT	TYPE IV	0.9	COOPER LIGHTING
	B	1	COOPER LIGHTING PRV AREA LIGHT	TYPE IV	0.9	COOPER LIGHTING
	C	1	COOPER LIGHTING PRV AREA LIGHT (2 @ 180°)	TYPE V	0.9	COOPER LIGHTING
	D	21	G&G INDUSTRIAL LIGHTING DRIVERLESS AC LED LUMINAIRE	N/A	0.8	G&G LIGHTING

SYMBOL	DESCRIPTION
A (XX')	PROPOSED LIGHTING FIXTURE (MOUNTING HEIGHT)
+X.X	PROPOSED LIGHTING INTENSITY (FOOTCANDLES)
	PROPOSED AREA LIGHT
	PROPOSED AC LED LUMINAIRE



LIGHTING REQUIREMENTS		
CODE SECTION	REQUIRED	PROPOSED
§ 155-3	THE ILLUMINATION PROVIDED BY ARTIFICIAL LIGHTING ON THE PROPERTY SHALL NOT EXCEED TWO (2) FOOTCANDLES BEYOND ANY PROPERTY LINE.	1.4 FC
§ 155-3	SPOTLIGHTS OR OTHER TYPES OF LIGHTING THAT PROVIDE A CONCENTRATED BEAM SHALL E SO DIRECTED THAT THE BEAM OF LIGHT DOES NOT EXTEND BEYOND PROPERTY LINES OR THE VERTICAL PLAN OD THE SIGN OR BUILDING FACE THAT THEY ILLUMINATE.	COMPLIES
§ 155-3	NO ARTIFICIAL LIGHTING SHALL SHINE DIRECTLY UPON ANY NEIGHBORING PROPERTY.	COMPLIES
§ 155-3	ANY FIXTURE USED TO ILLUMINATE ANY AUTOMOTIVE USE AREA SHALL BE SO ARRANGED AS TO DIRECT THE LIGHT AWAY FROM THE STREET AND AWAY FROM ANY ADJOINING PREMISES.	COMPLIES

GENERAL LIGHTING NOTES

1. THE LIGHTING LEVELS DEPICTED WITHIN THE PLAN SET ARE CALCULATED UTILIZING DATA OBTAINED FROM THE LISTED MANUFACTURER. ACTUAL ILLUMINATION LEVELS AND PERFORMANCE OF ANY PROPOSED LIGHTING FIXTURE MAY VARY DUE TO UNCONTROLLABLE VARIABLES SUCH ARE WEATHER, VOLTAGE SUPPLY, LAMP TOLERANCE, EQUIPMENT SERVICE LIFE AND OTHER VARIABLE FIELD CONDITIONS.
2. WHERE APPLICABLE, THE EXISTING LIGHT LEVELS DEPICTED WITHIN THE PLAN SET SHALL BE CONSIDERED APPROXIMATE. THE EXISTING LIGHT LEVELS ARE BASED ON FIELD OBSERVATIONS AND THE MANUFACTURER'S DATA OF THE ASSUMED OR MOST SIMILAR LIGHTING FIXTURE MODEL.
3. UNLESS NOTED ELSEWHERE WITHIN THIS PLAN SET, THE LIGHT LOSS FACTORS USED IN THE LIGHTING ANALYSIS ARE AS FOLLOWS:
   - LIGHT EMITTING DIODES (LED): 0.90
   - HIGH PRESSURE SODIUM: 0.72
   - METAL HALIDE: 0.72
4. THE CONTRACTOR SHALL NOTIFY STONEFIELD ENGINEERING & DESIGN, LLC. IN WRITING, PRIOR TO THE START OF CONSTRUCTION, OF ANY PROPOSED LIGHTING LOCATIONS THAT CONFLICT WITH EXISTING/ PROPOSED DRAINAGE, UTILITY, OR OTHER IMPROVEMENTS.
5. THE CONTRACTOR IS RESPONSIBLE TO PREPARE A WIRING PLAN AND PROVIDE ELECTRIC SERVICE TO ALL PROPOSED LIGHTING FIXTURES. THE CONTRACTOR IS REQUIRED TO PREPARE AN AS-BUILT PLAN OF WIRING AND PROVIDE COPIES TO THE OWNER AND STONEFIELD ENGINEERING & DESIGN, LLC.

30' 0' 30' 60'

GRAPHIC SCALE IN FEET

1" = 30'

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SITE PLAN SET

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LICENSED PROFESSIONAL ENGINEER

STONEFIELD engineering & design

SCALE: 1" = 30' | PROJECT ID: RUT-220250

TITLE: LIGHTING PLAN

DRAWING: C-6

Z:\RUT\HORDRUP\2022\RUT-220250 HUTTON GROUP - 5763 SOUTHWESTERN BOULEVARD, HAMBURG, NY\CAD\PLOTTING\ALL\LIGHT.DWG

SOIL CHARACTERISTICS CHART

TYPE OF SOIL	FARNHAM CHANNERY SILT LOAM (FbB)	MANLIUS CHANNERY SILT LOAM (MaB)	NIAGARA SILT LOAM (Nh)
PERCENT OF SITE COVERAGE	21.8%	19.3%	**58.9%**
HYDROLOGIC SOIL GROUP	A/D	C	C/D
DEPTH TO RESTRICTIVE LAYER	> 80 INCHES	20 TO 40 INCHES	> 80 INCHES
SOIL PERMEABILITY	1.98 TO 5.95 IN/HR	0.00 TO 0.00 IN/HR	0.06 TO 0.20 IN/HR
DEPTH TO WATER TABLE	18 TO 24 INCHES	> 80 INCHES	6 TO 18 INCHES

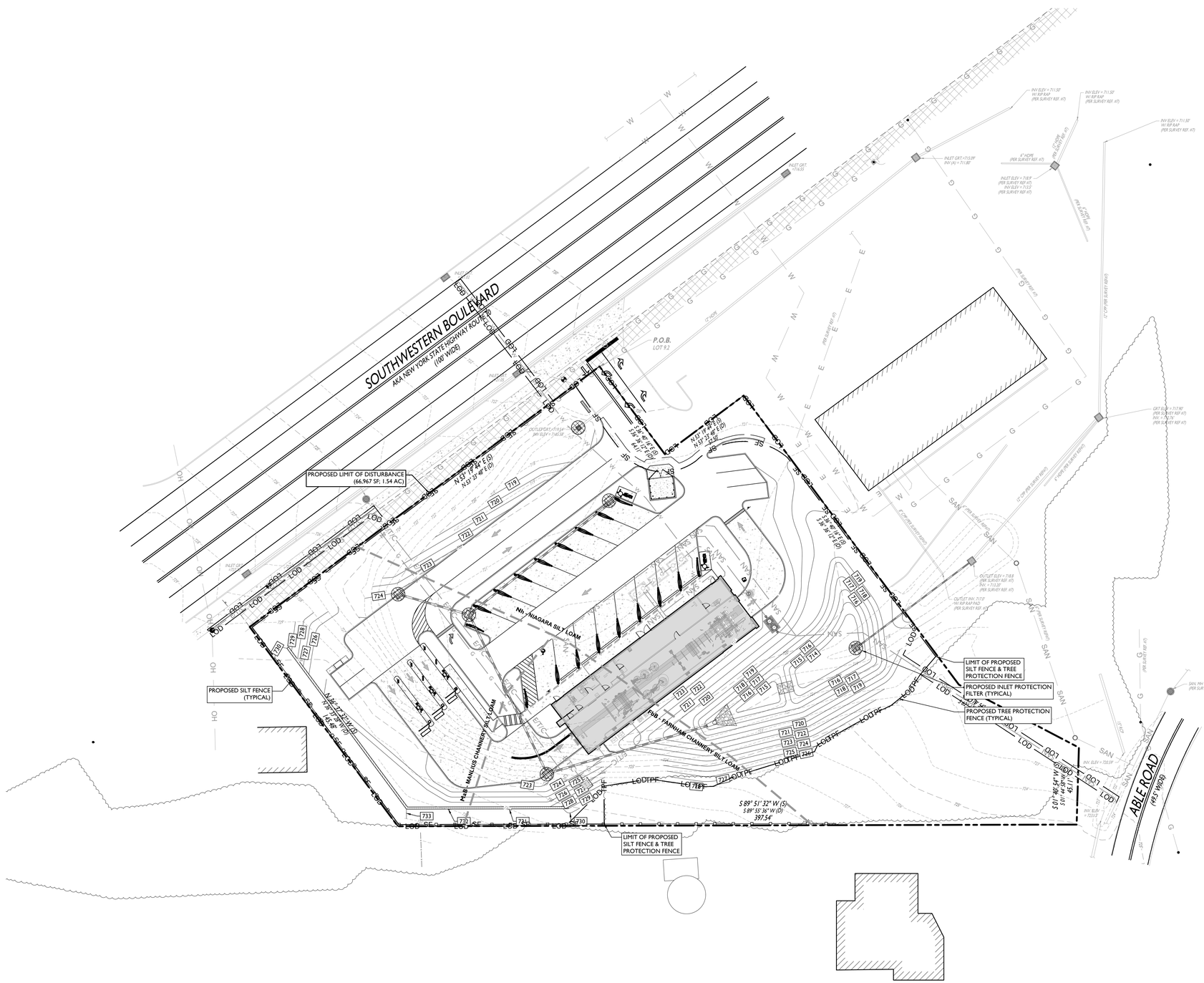
SEQUENCE OF CONSTRUCTION

1. INSTALL CONSTRUCTION ENTRANCE.
2. INSTALL SOIL EROSION MEASURES.
3. DEMOLISH EXISTING STRUCTURES. ALL EXPOSED SOIL AREAS FOR DEMOLITION SHALL BE STABILIZED TEMPORARILY UNTIL NEXT PHASE OF CONSTRUCTION BEGINS.
4. ROUGH GRADING AND TEMPORARY SEEDING.
5. INSTALL INLET FILTERS.
6. COMMENCE BUILDING CONSTRUCTION AND SITE IMPROVEMENTS.
7. LANDSCAPING IMPROVEMENTS AND FINAL SEEDING.
8. REMOVE SOIL EROSION MEASURES.

SOIL EROSION & SEDIMENTATION INSPECTION SCHEDULE

TASK	SILT FENCE	CATCH BASIN INLET FILTER	TRUCK WASH AREA	CONSTRUCTION ENTRANCE	SCHEDULE
INSPECT FOR FAILURE OR REQUIRED MAINTENANCE	X	X	X	X	EVERY 7 DAYS*
REMOVAL OF SEDIMENT ACCUMULATION	X	X	X	X	EVERY 7 DAYS
INSPECTION FOLLOWING 24-HOUR STORM THAT DROPS 0.5 IN OF RAIN	X	X		X	IMMEDIATELY THEREAFTER
SWEEPING			X	X	AS NEEDED

(*) WHEN A PRACTICE IS IN NEED OF REPAIR IT MUST BE COMPLETED WITHIN 3 DAYS OF RECOGNITION

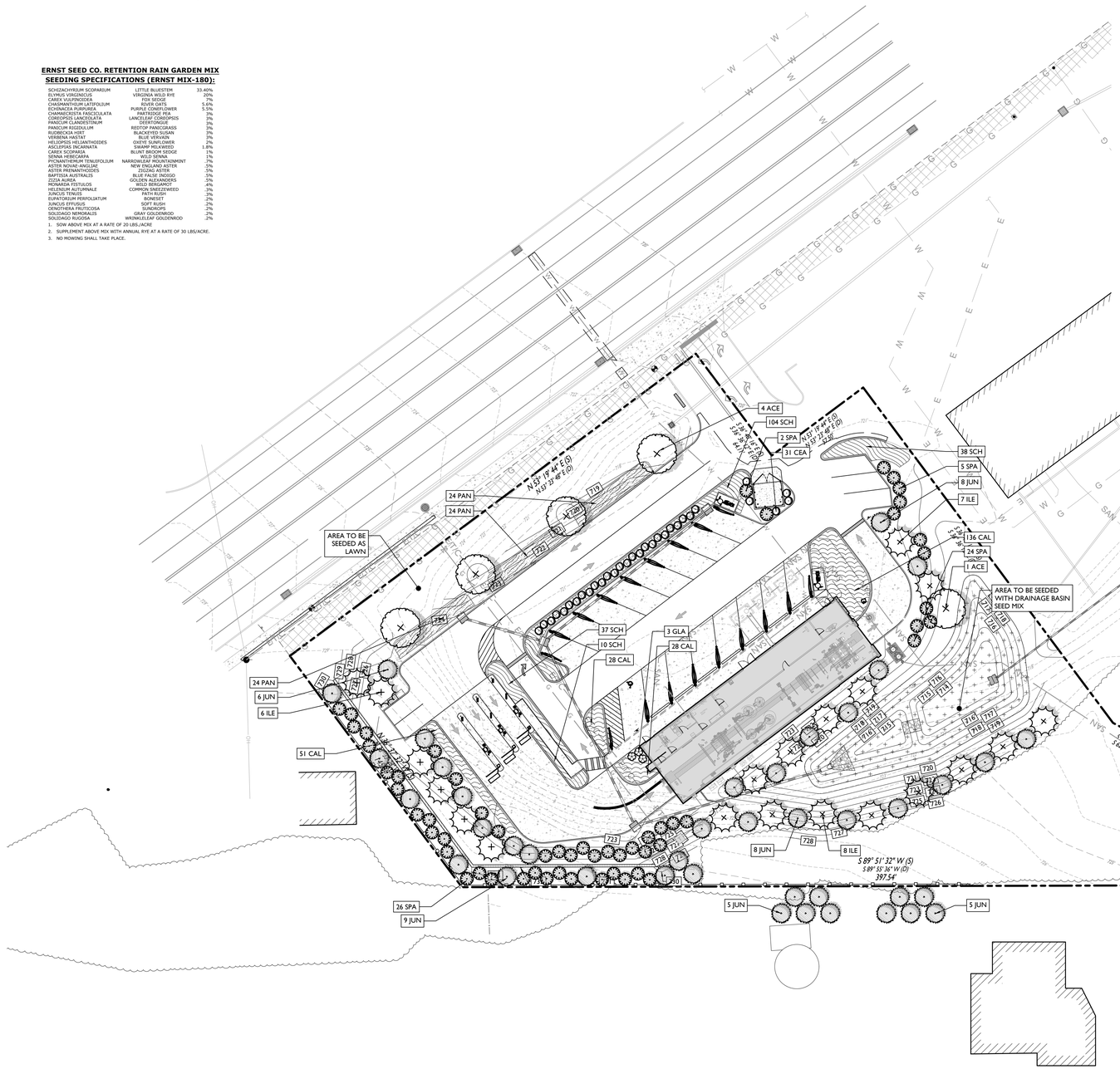

SOUTHWESTERN BOULEVARD
AKA NEW YORK STATE HIGHWAY ROUTE 5
(100' WIDE)
P.O.B.
LOT 9.2
PROPOSED LIMIT OF DISTURBANCE
(66,967 SF, 1.54 AC)
PROPOSED SILT FENCE
(TYPICAL)
LIMIT OF PROPOSED
SILT FENCE & TREE
PROTECTION FENCE
PROPOSED INLET PROTECTION
FILTER (TYPICAL)
PROPOSED TREE PROTECTION
FENCE (TYPICAL)
LIMIT OF PROPOSED
SILT FENCE & TREE
PROTECTION FENCE
NH - NIAGARA SILT LOAM
MaB - MANLIUS CHANNERY SILT LOAM
FbB - FARNHAM CHANNERY SILT LOAM
ABLE ROAD
(99.5' WIDE)
S 89° 51' 32" W (S)
S 89° 55' 36" W (D)
297.54'
S 01° 40' 54" W
504.46'
N 57° 19' 48" E (S)
N 57° 15' 48" E (D)
345.68'
N 36° 27' 32" W (S)
N 36° 31' 28" W (D)
145.98'
S 36° 40' 12" E (S)
S 36° 44' 12" E (D)
411.71'
S 53° 19' 48" W (S)
S 53° 15' 48" E (D)
345.68'
INV ELEV = 711.52'
W/ RIP RAP
(PER SURVEY REF. #7)
INLET GRT. =715.09'
INV (N) = 711.88'
INLET ELEV = 718.9'
(PER SURVEY REF. #7)
INV ELEV = 711.13'
(PER SURVEY REF. #7)
6" HDPE
(PER SURVEY REF. #7)
12" CPP
(PER SURVEY REF. #7)
GRT ELEV = 717.90'
(PER SURVEY REF. #7)
INV = 703.76'
(PER SURVEY REF. #7)
OUTLET ELEV = 718.8
(PER SURVEY REF. #7)
OUTLET INV. 713.9'
W/ RIP RAP PAD
(PER SURVEY REF. #7)
SAN MH
(PER SURVEY REF. #7)
INV. ELEV = 720.5'
INV. ELEV = 720.9'
INV. ELEV = 720.3'
INV. ELEV = 720.4'
INV. ELEV = 720.5'
INV. ELEV = 720.6'
INV. ELEV = 720.7'
INV. ELEV = 720.8'
INV. ELEV = 720.9'
INV. ELEV = 721.0'
INV. ELEV = 721.1'
INV. ELEV = 721.2'
INV. ELEV =

Know what's **below**
Call before you dig.

ERNST SEED CO. RETENTION RAIN GARDEN MIX
SEEDING SPECIFICATIONS (ERNST MIX-180):

SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	33.40%
ELYMUS VIRGINICUS	VIRGINIA WILD RYE	20%
CAREX VULPINOIDEA	FOX SEDGE	10%
CHASMANTHIUM LATIFOLIUM	RIVER OATS	5.6%
ECHINACEA PURPUREA	PURPLE CONEFLOWER	5.5%
CHAMAECRISTA FASCICULATA	PARTRIDGE PEA	3%
COREOPSIS LANCEOLATA	LANCELEAF COREOPSIS	3%
PANICUM CLANDESTINUM	DEERTONGUE	3%
PANICUM RIGIDULUM	REDTOP PANICGRASS	3%
RUDBECKIA HIRT	BLACKEYED SUSAN	3%
VERBENA HASTAT	BLUE VERVAIN	3%
HELIOPSIS HELIANTHOIDES	OXEYE SUNFLOWER	2%
ASCLEPIAS INCARNATA	SWAMP MILKWEED	1.8%
ASTER LAEVIS	BLUE WOOD ASTER	1%
SENNA HEBECARPA	WILD SENNA	1%
PYCNANTHEMUM TENUIFOLIUM	NARROWLEAF MOUNTAINMINT	.7%
ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER	.5%
ASTER PRENANTHOIDES	ZIGZAG ASTER	.5%
ASTER SIMPLEX PANICULATUS	PANICLE ASTER	.5%
ZIZIA AUREA	GOLDEN ALEXANDERS	.5%
MONARDA FISTULOS	WILD BERGAMOT	.4%
HELENIUM AUTUMNALE	COMMON SNEEZEWEED	.3%
JUNCUS TENUIS	PATH RUSH	.3%
JUNCUS TORREYI GRAYFOLIATUM	TORREY RUSH	.2%
JUNCUS EFFUSUS	SOFT RUSH	.2%
OENOTHERA FRUTICOSA	SUNDROPS	.2%
SOLIDAGO NEMORALIS	GRAY GOLDENROD	.2%
SOLIDAGO RUGOSA	WRINKLELEAF GOLDENROD	.2%

1. SOW ABOVE MIX AT A RATE OF 20 LBS./ACRE
2. SUPPLEMENT ABOVE MIX WITH ANNUAL RYE AT A RATE OF 30 LBS/ACRE.
3. NO MOWING SHALL TAKE PLACE.



PLANT SCHEDULE

DECIDUOUS TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER
	ACE	5	ACER RUBRUM `OCTOBER GLORY`	OCTOBER GLORY RED MAPLE	2.5" - 3" CAL	B&B
EVERGREEN TREES	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**CONTAINER**
	ILE	31	ILEX OPACA `JERSEY KNIGHT`	JERSEY KNIGHT AMERICAN HOLLY	6` - 8` HT	B&B
	SPA	57	JUNIPERUS CHINENSIS `SPARTAN`	SPARTAN JUNIPER	6` - 8` HT	B&B
	JUN	41	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	6` - 8` HT	B&B
SHRUBS	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**CONTAINER**
	CEA	31	CEANOTHUS AMERICANUS	NEW JERSEY TEA	18" - 24"	POT
EVERGREEN SHRUBS	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**CONTAINER**
	GLA	3	ILEX GLABRA `COMPACTA`	COMPACT INKBERRY	18" - 24"	POT
SHRUB AREAS	**CODE**	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**SPACING**
	CAL	243	CALAMAGROSTIS X ACUTIFLORA `KARL FOERSTER`	FEATHER REED GRASS	1 GAL.	30" o.c.
	PAN	72	PANICUM VIRGATUM `SHENANDOAH`	SWITCH GRASS	1 GAL.	48" o.c.
	SCH	189	SCHIZACHYRIUM SCOPARIUM `STANDING OVATION`	STANDING OVATION LITTLE BLUESTEM GRASS	1 GAL.	36" o.c.

NOTE: IF ANY DISCREPANCIES OCCUR BETWEEN AMOUNTS SHOWN ON THE LANDSCAPE PLAN AND WITHIN THE PLANT LIST, THE PLAN SHALL DICTATE.

LANDSCAPING REQUIREMENTS

CODE SECTION	REQUIRED	PROPOSED
§ 280-266	PERIMETER LANDSCAPE REQUIREMENTS: ALONG A REAR LOT LINE OR AN INTERIOR SIDE LOT LINE WHICH ABUTS A RESIDENTIAL DISTRICT, A COMPACT EVERGREEN HEDGE WHICH WILL REACH A HEIGHT OF 5 FT WITHIN 3 YEARS OR BY A SOLID UNIFORMLY PLANTED FENCE OR AN UNPIERCED MASONRY WALL 5 FT IN HEIGHT. PLANNING BOARD MAY REQUIRE AND MODIFY LANDSCAPING PLANS FOR SITE LOCATIONS TO ESTABLISH A POSITIVE DESIGN IMAGE	COMPLIES
§ 280-85	PARKING SETBACKS / BUFFERS: FRONT (W): 35 FT FROM STREET LINE, 10 FT FROM PROPERTY LINE REAR (E): 10 FT FROM PROPERTY LINE SIDE (N): 10 FT FROM PROPERTY LINE SIDE (S): 20 FT	COMPLIES
§ 280-89	INTERIOR (PARKING) LANDSCAPE REQUIREMENTS: NONE REQUIRED BY CODE, PLANNING BOARD MAY REQUIRE AND MODIFY LANDSCAPING PLANS FOR SITE LOCATIONS TO ESTABLISH A POSITIVE DESIGN IMAGE	COMPLIES
§ 280-89	FOUNDATION PLANTING REQUIREMENTS: NONE REQUIRED BY CODE, PLANNING BOARD MAY REQUIRE AND MODIFY LANDSCAPING PLANS FOR SITE LOCATIONS TO ESTABLISH A POSITIVE DESIGN IMAGE	COMPLIES
	REQUIRED TREE PRESERVATION OR MITIGATION: NO PRESERVATION OR MITIGATION REQUIRED, TREE REMOVAL PERMIT REQUIRED FOR TREE REMOVAL OF OVER 10 TREES WITHIN A REGULATED SETBACK AREA	COMPLIES
§ 280-277	DUMPSTER SCREENING REQUIREMENTS: MUST BE ENCLOSED AND/OR SCREENED WITH SUITABLE MATERIAL. ENCLOSURE SHALL PROVIDE COMPLETE VISUAL SCREENING MADE UP OF A WALL OR SOLID FENCE. MATERIALS FOR WALL AND SOLID FENCE SHALL BE WOOD, MASONRY, METAL OR CONCRETE.	COMPLIES
§ 280-81	LOADING ZONE: NONE REQUIRED BY CODE, PLANNING BOARD MAY REQUIRE AND MODIFY LANDSCAPING PLANS FOR SITE LOCATIONS TO ESTABLISH A POSITIVE DESIGN IMAGE	COMPLIES

IRRIGATION NOTE:

IRRIGATION CONTRACTOR TO PROVIDE A DESIGN FOR AN IRRIGATION SYSTEM SEPARATING PLANTING BEDS FROM LAWN AREA. PRIOR TO CONSTRUCTION, DESIGN IS TO BE SUBMITTED TO THE PROJECT LANDSCAPE DESIGNER FOR REVIEW AND APPROVAL. WHERE POSSIBLE, DRIP IRRIGATION AND OTHER WATER CONSERVATION TECHNIQUES SUCH AS RAIN SENSORS SHALL BE IMPLEMENTED. CONTRACTOR TO VERIFY MAXIMUM ON SITE DYNAMIC WATER PRESSURE AVAILABLE MEASURED IN PSI. PRESSURE REDUCING DEVICES OR BOOSTER PUMPS SHALL BE PROVIDED TO MEET SYSTEM PRESSURE REQUIREMENTS. DESIGN TO SHOW ALL VALVES, PIPING, HEADS, BACKFLOW PREVENTION, METERS, CONTROLLERS, AND SLEEVES WITHIN HARDSCAPE AREAS.

LANDSCAPING NOTES

1. THE CONTRACTOR SHALL RESTORE ALL DISTURBED GRASS AND LANDSCAPED AREAS TO MATCH EXISTING CONDITIONS UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET.
2. THE CONTRACTOR SHALL RESTORE ALL DISTURBED LAWN AREAS WITH A MINIMUM 4 INCH LAYER OF TOPSOIL AND SEED.
3. THE CONTRACTOR SHALL RESTORE MULCH AREAS WITH A MINIMUM 3 INCH LAYER OF MULCH .
4. THE MAXIMUM SLOPE ALLOWABLE IN LANDSCAPE RESTORATION AREAS SHALL BE 3 FEET HORIZONTAL TO 1 FOOT VERTICAL (3:1 SLOPE) UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET.
5. THE CONTRACTOR IS REQUIRED TO LOCATE ALL SPRINKLER HEADS IN AREA OF LANDSCAPING DISTURBANCE PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL RELOCATE SPRINKLER HEADS AND LINES IN ACCORDANCE WITH OWNER'S DIRECTION WITHIN AREAS OF DISTURBANCE.
6. THE CONTRACTOR SHALL ENSURE THAT ALL DISTURBED LANDSCAPED AREAS ARE GRADED TO MEET FLUSH AT THE ELEVATION OF WALKWAYS AND TOP OF CURB ELEVATIONS EXCEPT UNLESS INDICATED OTHERWISE WITHIN THE PLAN SET. NO ABRUPT CHANGES IN GRADE ARE PERMITTED IN DISTURBED LANDSCAPING AREAS.

30' 0' 30' 60'
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STONEFIELD engineering & design
Rutherford, NJ · New York, NY · Boston, MA
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SITE PLAN SET

HUTTON ST 21, LLC

PROPOSED CAR WASH

SECTION 182.05, BLOCK 1, LOT # 2,
3565 SOUTHWESTERN BOULEVARD
TOWN OF HAMBURG
ERIE COUNTY, NEW YORK

JEFFREY A. MARTELL, P.E.
NEW YORK LICENSE No. 86502
LICENSED PROFESSIONAL ENGINEER

STONEFIELD engineering & design

SCALE: 1" = 30' | PROJECT ID: RUT-220250

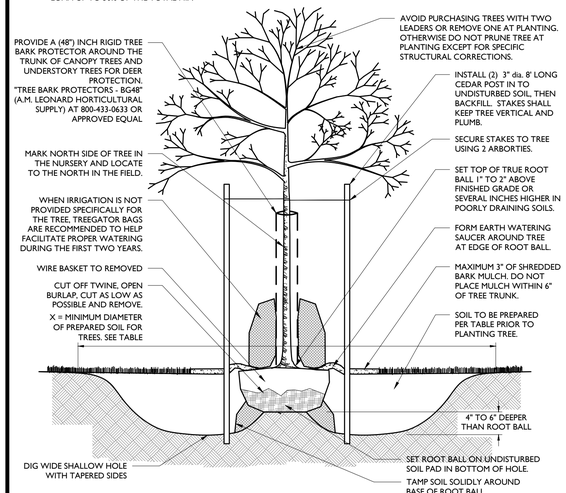
TITLE: LANDSCAPING PLAN

DRAWING: C-8

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NOTES:

1. FOR CONTAINER-GROWN TREES, USE FINGERS OR SMALL HAND TOOLS TO PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL; THEN CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OF THE CONTAINER.
2. THOROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.
3. SOIL AMENDMENTS:
   - MODIFY HEAVY CLAY OR SILT SOILS (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) OR GYPSUM
   - MODIFY EXTREMELY SANDY SOILDS (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX



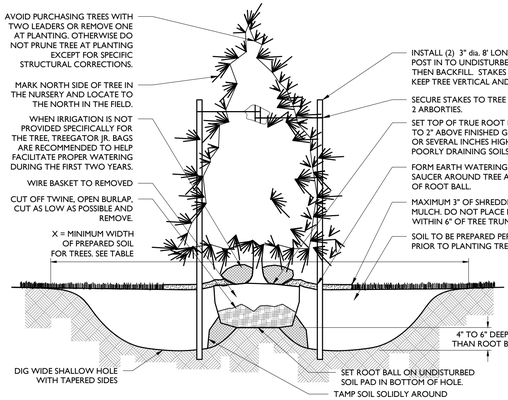
DECIDUOUS TREE PLANTING DETAIL

NOT TO SCALE

1

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CONIFEROUS TREE PLANTING DETAIL

NOT TO SCALE

2

GENERAL LANDSCAPING NOTES:

1. THE LANDSCAPE CONTRACTOR SHALL FURNISH ALL MATERIALS AND PERFORM ALL WORK IN ACCORDANCE WITH THESE SPECIFICATIONS, APPROVED OR FINAL DRAWINGS, AND INSTRUCTIONS PROVIDED BY THE PROJECT LANDSCAPE DESIGNER, MUNICIPAL OFFICIALS, OR OWNER/OWNER'S REPRESENTATIVE. ALL WORK COMPLETED AND MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH THE INTENTION OF THE SPECIFICATIONS, DRAWINGS, AND INSTRUCTIONS AND EXECUTED WITH THE STANDARD LEVEL OF CARE FOR THE LANDSCAPE INDUSTRY.
2. WORK MUST BE CARRIED OUT ONLY DURING WEATHER CONDITIONS FAVORABLE TO LANDSCAPE CONSTRUCTION AND TO THE HEALTH AND WELFARE OF PLANTS. THE SUITABILITY OF SUCH WEATHER CONDITIONS SHALL BE DETERMINED BY THE PROJECT LANDSCAPE DESIGNER OR GOVERNING MUNICIPAL OFFICIAL.
3. IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR, BEFORE ORDERING OR PURCHASING MATERIALS, TO PROVIDE SAMPLES OF THOSE MATERIALS TO THE PROJECT LANDSCAPE DESIGNER OR GOVERNING MUNICIPAL OFFICIAL FOR APPROVAL, IF SO REQUESTED.
4. IF SAMPLES ARE REQUESTED, THE LANDSCAPE CONTRACTOR IS TO SUBMIT CERTIFICATION TAGS FROM TREES, SHRUBS AND SEED VERIFYING TYPE AND PURITY.
5. UNLESS OTHERWISE AUTHORIZED BY THE PROJECT LANDSCAPE DESIGNER OR GOVERNING MUNICIPAL OFFICIAL, THE LANDSCAPE CONTRACTOR SHALL PROVIDE NOTICE AT LEAST FORTY-EIGHT HOURS (48 HRS.) IN ADVANCE OF THE ANTICIPATED DELIVERY DATE OF PLANT MATERIALS TO THE PROJECT SITE. A LEGIBLE COPY OF THE INVOICE, SHOWING VARIETIES AND SIZES OF MATERIALS INCLUDED FOR EACH SHIPMENT SHALL BE FURNISHED TO THE PROJECT LANDSCAPE DESIGNER, OR GOVERNING MUNICIPAL OFFICIAL.
6. THE PROJECT LANDSCAPE DESIGNER OR GOVERNING MUNICIPAL OFFICIAL RESERVES THE RIGHT TO INSPECT AND REJECT PLANTS AT ANY TIME AND AT ANY PLACE.

PROTECTION OF EXISTING VEGETATION NOTES:

1. BEFORE COMMENCING WORK, ALL EXISTING VEGETATION WHICH COULD BE IMPACTED AS A RESULT OF THE PROPOSED CONSTRUCTION ACTIVITIES MUST BE PROTECTED FROM DAMAGE BY THE INSTALLATION OF TREE PROTECTION FENCING. FENCING SHALL BE LOCATED AT THE DRIP-LINE OR LIMIT OF DISTURBANCE AS DEPICTED WITHIN THE APPROVED OR FINAL PLAN SET, ESTABLISHING THE TREE PROTECTION ZONE. NO INSTALLATION SHALL BE IN ACCORDANCE WITH THE PROVIDED "TREE PROTECTION FENCE DETAIL." NO WORK MAY BEGIN UNTIL THIS REQUIREMENT IS FULFILLED. THE FENCING SHALL BE INSPECTED REGULARLY BY THE LANDSCAPE CONTRACTOR AND MAINTAINED UNTIL ALL CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.
2. IN ORDER TO AVOID DAMAGE TO ROOTS, BARK OR LOWER BRANCHES, NO VEHICLE, EQUIPMENT, DEBRIS, OR OTHER MATERIALS SHALL BE DRIVEN, PARKED OR PLACED WITHIN THE TREE PROTECTION ZONE. ALL ON-SITE CONTRACTORS SHALL USE ANY AND ALL PRECAUTIONARY MEASURES WHEN PERFORMING WORK AROUND TREES, WALKS, PAVEMENTS, UTILITIES, AND ANY OTHER FIXTURES EITHER EXISTING OR PREVIOUSLY INSTALLED UNDER THIS CONTRACT.
3. IN RARE INSTANCES WHERE EXCAVATING, FILL, OR GRADING IS REQUIRED WITHIN THE DRIP-LINE OF TREES TO REMAIN, THE WORK SHALL BE PERFORMED AS FOLLOWS:
   - TRENCHING: WHEN TRENCHING OCCURS AROUND TREES TO REMAIN, THE TREE ROOTS SHALL NOT BE CUT, BUT THE TRENCH SHALL BE TUNNELED UNDER OR AROUND THE ROOTS BY CAREFUL HAND DIGGING AND WITHOUT INJURY TO THE ROOTS. NO ROOTS, LIMBS, OR WOODS ARE TO HAVE ANY PAINT OR MATERIAL APPLIED TO ANY SURFACE.
   - RAISING GRADES: WHEN THE GRADE AT AN EXISTING TREE IS BELOW THE NEW FINISHED GRADE, AND FILL NOT EXCEEDING 6 INCHES (6") IS REQUIRED, CLEAN, WASHED GRAVEL FROM ONE TO TWO INCHES (1" – 2") IN SIZE SHALL BE PLACED DIRECTLY AROUND THE TREE TRUNK. THE GRAVEL SHALL EXTEND OUT FROM THE TRUNK ON ALL SIDES A MINIMUM OF 18 INCHES (18") AND FINISH APPROXIMATELY TWO INCHES (2") ABOVE THE FINISH GRADE AT TREE. INSTALL GRAVEL BEFORE ANY EARTH FILL IS PLACED. NEW EARTH FILL SHALL NOT BE LEFT IN CONTACT WITH THE TRUNK OF ANY TREE REQUIRING FILL. WHERE FILL EXCEEDING 6 INCHES (6") IS REQUIRED, A DRY LAID TREE WELL SHALL BE CONSTRUCTED. IF APPLICABLE, THESE WELL INSTALLATION SHALL BE IN ACCORDANCE WITH THE PROVIDED "TREE WELL DETAIL."
   - LOWERING GRADES: EXISTING TREES LOCATED IN AREAS WHERE THE NEW FINISHED GRADE IS TO BE LOWERED, SHALL HAVE RE-GRADING WORK DONE BY HAND TO THE INDICATED ELEVATION, NO GREATER THAN SIX INCHES (6"). ROOTS SHALL BE CUT CLEANLY THREE INCHES (3") BELOW FINISHED GRADE UNDER THE DIRECTION OF A LICENSED ARBORIST. WHERE CUT EXCEEDING 6 INCHES (6") IS REQUIRED, A DRY LAID RETAINING WALL SHALL BE CONSTRUCTED. IF APPLICABLE, THE RETAINING WALL INSTALLATION SHALL BE IN ACCORDANCE WITH THE PROVIDED "TREE RETAINING WALL DETAIL."

SOIL PREPARATION AND MULCH NOTES:

1. LANDSCAPE CONTRACTOR SHALL OBTAIN A SOIL TEST OF THE IN-SITU TOPSOIL BY A CERTIFIED SOIL LABORATORY PRIOR TO PLANTING. LANDSCAPE CONTRACTOR SHALL ALLOW FOR A TWO WEEK TURNAROUND TIME FROM SUBMITTAL OF SAMPLE TO NOTIFICATION OF RESULTS.
2. BASED ON SOIL TEST RESULTS, ADJUST THE RATES OF LIME AND FERTILIZER THAT SHALL BE MIXED INTO THE TOP SIX INCHES (6") OF TOPSOIL. THE LIME AND FERTILIZER RATES PROVIDED WITHIN THE "SEED SPECIFICATION" OR "SOD SPECIFICATION" IS APPROXIMATE AND FOR BIDDING PURPOSES ONLY. IF ADDITIONAL AMENDMENTS ARE NECESSARY, ADJUST THE TOPSOIL AS FOLLOWS:
   - MODIFY HEAVY CLAY OR SILT SOILS (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) OR GYPSUM.
   - MODIFY EXTREMELY SANDY SOILS (MORE THAN 85%) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.
3. TOPSOIL SHALL BE FERTILE, FRIABLE, NATURAL TOPSOIL OF LOAMING CHARACTER, WITHOUT ADMIXTURE OF SUBSOIL MATERIAL OBTAINED FROM A WELL-DRAINED ARABLE SITE, FREE FROM ALL CLAY, LUMPS, COARSE SANDS, STONES, PLANTS, ROOTS, STICKS, AND OTHER FOREIGN MATERIAL GREATER THAN ONE INCH (1").
4. TOPSOIL SHALL HAVE A PH RANGE OF 5.0-7.0 AND SHALL NOT CONTAIN LESS THAN 6% ORGANIC MATTER BY WEIGHT.
5. OBTAIN TOPSOIL ONLY FROM LOCAL SOURCES OR FROM AREAS HAVING SIMILAR SOIL CHARACTERISTICS TO THAT FOUND AT THE PROJECT SITE.
6. CONTRACTOR SHALL PROVIDE A SIX INCH (6") DEEP LAYER OF TOPSOIL IN ALL PLANTING AREAS. TOPSOIL SHALL BE SPREAD OVER A PREPARED SURFACE IN A UNIFORM LAYER TO ACHIEVE THE DESIRED COMPACTED THICKNESS. THE SPREADING OF TOPSOIL SHALL NOT BE CONDUCTED UNDER MUDDY OR FROZEN SOIL CONDITIONS.
7. UNLESS OTHERWISE NOTED IN THE CONTRACT, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF TOPSOIL AND THE ESTABLISHMENT OF FINE-GRADING WITHIN THE DISTURBED AREA OF THE SITE.
8. LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE SUB-GRADE ELEVATION MEETS THE FINISHED GRADE ELEVATION (LESS THE REQUIRED TOPSOIL) IN ACCORDANCE WITH THE APPROVED OR FINAL GRADING PLAN.
9. ALL LAWN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN AND UNIFORM PLANE WITH NO ABRUPT CHANGE OF SURFACE AS DEPICTED WITHIN THE APPROVED OR FINAL CONSTRUCTION SET UNLESS OTHERWISE DIRECTED BY THE PROJECT LANDSCAPE DESIGNER OR MUNICIPAL OFFICIAL.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER SURFACE AND SUBSURFACE PLANT BED DRAINAGE PRIOR TO THE INSTALLATION OF PLANTINGS. IF POOR DRAINAGE CONDITIONS EXIST, CORRECTIVE ACTION SHALL BE TAKEN PRIOR TO INSTALLATION. ALL PLANTING AND LAWN AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW A FREE FLOW OF SURFACE WATER.
11. DOUBLE SHREDDED HARDWOOD MULCH OR APPROVED EQUAL SHALL BE USED AS A THREE INCH (3") TOP DRESSING IN ALL SHRUB PLANTING BEDS AND AROUND ALL TREES PLANTED BY LANDSCAPE CONTRACTOR. GROUND COVER, PERENNIAL, AND ANNUAL PLANTING BEDS SHALL BE MULCHED WITH A TWO INCH (2") TOP DRESSING. SINGLE TREES OR SHRUBS SHALL BE MULCHED TO AVOID CONTACT WITH TRUNK OR PLANT STEM. MULCH SHALL BE OF SUFFICIENT CHARACTER AS NOT TO BE EASILY DISPLACED BY WIND OR WATER RUNOFF.
12. WHENEVER POSSIBLE, THE SOIL PREPARATION AREA SHALL BE CONNECTED FROM PLANTING TO PLANTING.
13. SOIL SHALL BE LOOSENED WITH A BACKHOE OR OTHER LARGE COARSE-TILING EQUIPMENT UNLESS THE SOIL IS FROZEN OR EXCESSIVELY WET. TILING THAT PRODUCES LARGE, COARSE CHUNKS OF SOIL IS PREFERABLE TO TILING THAT RESULTS IN FINE GRAINS UNIFORM IN TEXTURE. AFTER THE AREA IS LOOSENED IT SHALL NOT BE DRIVEN OVER BY ANY VEHICLE.
14. APPLY PRE-EMERGENT WEED CONTROL TO ALL PLANT BEDS PRIOR TO MULCHING. ENSURE COMPATIBILITY BETWEEN PRODUCT AND PLANT MATERIAL.
15. ALL PLANTING SOIL SHALL BE AMENDED WITH THE FOLLOWING:

MYCRO® TREE SAVER - A DRY GRANULAR MYCORRHIZAL FUNGI INOCULANT THAT IS MIXED IN THE BACKFILL WHEN PLANTING TREES AND SHRUBS. IT CONTAINS SPORES OF BOTH ECTOMYCORRHIZAL AND VA MYCORRHIZAL FUNGI (VAM), BENEFICIAL RHIZOSPHERE BACTERIA, TERRA-SORB SUPERABSORBENT HYDROGEL TO REDUCE WATER LEACHING, AND SELECTED ORGANIC MICROBIAL NUTRIENTS.

- DIRECTIONS FOR USE: USE 3-OZ PER EACH FOOT DIAMETER OF THE ROOT BALL, OR 3-OZ PER INCH CALIPER. MIX INTO THE BACKFILL WHEN TRANSPLANTING TREES AND SHRUBS. MIX PRODUCT IN A RING-SHAPED VOLUME OF SOIL AROUND THE UPPER PORTION OF THE ROOT BALL, EXTENDING FROM THE SOIL SURFACE TO A DEPTH OF ABOUT 8 INCHES, AND EXTENDING OUT FROM THE ROOT BALL ABOUT 8 INCHES INTO THE BACKFILL. APPLY WATER TO SOIL SATURATION.
- MYCOR® TREE SAVER® IS EFFECTIVE FOR ALL TREE AND SHRUB SPECIES EXCEPT RHODODENDRONS, AZALEAS, AND MOUNTAIN LAUREL, WHICH REQUIRE ERICOID MYCORRHIZAE.
- SOIL PH: THE FUNGI IN THIS PRODUCT WERE CHOSEN BASED ON THEIR ABILITY TO SURVIVE AND COLONIZE PLANT ROOTS IN A PH RANGE OF 3 TO 9.
- FUNGICIDES: THE USE OF CERTAIN FUNGICIDES CAN HAVE A DETRIMENTAL EFFECT ON THE INOCULATION PROGRAM. SOIL APPLICATION OF ANY FUNGICIDE IS NOT RECOMMENDED FOR TWO WEEKS AFTER APPLICATION.
- OTHER PESTICIDES: HERBICIDES AND INSECTICIDES DO NOT NORMALLY INTERFERE WITH MYCORRHIZAL FUNGAL DEVELOPMENT, BUT MAY INHIBIT THE GROWTH OF SOME TREE AND SHRUB SPECIES IF NOT USED PROPERLY.

HEALTHY START MACRO TABS 12-8-8

- FERTILIZER TABLETS ARE PLACED IN THE UPPER 4 INCHES OF BACKFILL SOIL WHEN PLANTING TREES AND SHRUBS.
- TABLETS ARE FORMULATED FOR LONG-TERM RELEASE BY SLOW BIODEGRADATION, AND LAST UP TO 2 YEARS AFTER PLANTING. TABLETS CONTAIN 12-8-8 NPK FERTILIZER, AS WELL AS A MINIMUM OF SEVEN PERCENT (7%) HUMIC ACID BY WEIGHT, MICROBIAL NUTRIENTS DERIVED FROM SEA KELP, PROTEIN BYPRODUCTS, AND YUCCA SCHIDIGERA, AND A COMPLEMENT OF BENEFICIAL RHIZOSPHERE BACTERIA. THE STANDARD 21 GRAM TABLET IS SPECIFIED HERE. DIRECTIONS FOR USE: FOR PLANTING BALLED & BURLAPPED (B&B) TREES AND SHRUBS, MEASURE THE THICKNESS OF THE TRUNK, AND USE ABOUT 1 TABLET (21-G) PER HALF-INCH. PLACE THE TABLETS DIRECTLY NEXT TO THE ROOT BALL EVENLY DISTRIBUTED AROUND ITS PERIMETER, AT A DEPTH OF ABOUT 4 INCHES.

PLANT QUALITY AND HANDLING NOTES:

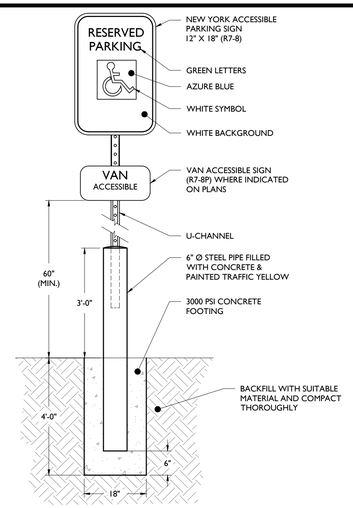
1. ALL PLANT MATERIAL SHALL CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2004) OR LATEST REVISION AS PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION.
2. IN ALL CASES, BOTANICAL NAMES LISTED WITHIN THE APPROVED OR FINAL PLANT LIST SHALL TAKE PRECEDENCE OVER COMMON NAMES.
3. ALL PLANTS SHALL BE OF SELECTED SPECIMEN QUALITY, EXCEPTIONALLY HEAVY, TIGHTLY KNIT, SO TRAINED OR FAVORED IN THEIR DEVELOPMENT AND APPEARANCE AS TO BE SUPERIOR IN FORM, NUMBER OF BRANCHES, COMPACTNESS AND SYMMETRY. ALL PLANTS SHALL HAVE A NORMAL HABIT OR SOUND, HEALTHY, VIGOROUS PLANTS WITH WELL DEVELOPED ROOT SYSTEM. PLANTS SHALL BE FREE OF DISEASE, INSECT PESTS, EGGS OR LARVAE.
4. PLANTS SHALL NOT BE PRUNED BEFORE DELIVERY. TREES WITH ABRASION OF THE BARK, SUNSCALDS, DISFIGURING KNOTS OR FRESH CUTS OF LIMBS OVER ONE AND ONE-FOURTH INCHES (1-1/4") WHICH HAVE NOT COMPLETELY CALLOUSED SHALL BE REJECTED.
5. ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY AND SHALL HAVE A NORMAL HABIT OF GROWTH AND BE LEGIBLY TAGGED WITH THE PROPER NAME AND SIZE.
6. THE ROOT SYSTEM OF EACH PLANT SHALL BE WELL PROVIDED WITH FIBROUS ROOTS. ALL PARTS SHALL BE SOUND, HEALTHY, VIGOROUS, WELL-BRANCHED AND DENSELY FOLIATED WHEN IN LEAF.
7. ALL PLANTS DESIGNATED BALL AND BURLAP (B&B) MUST BE MOVED WITH THE ROOT SYSTEM AS SOLID UNITS WITH BALLS OF EARTH FIRMLY WRAPPED WITH BURLAP. THE DIAMETER AND DEPTH OF THE BALLS OF EARTH MUST BE SUFFICIENT TO ENCOMPASS THE FIBROUS ROOT FEEDING SYSTEMS NECESSARY FOR THE HEALTHY DEVELOPMENT OF THE PLANT. NO PLANT SHALL BE ACCEPTED WHEN THE BALL OF EARTH SURROUNDING ITS ROOTS HAS BEEN BADLY CRACKED OR BROKEN PREPARATORY TO OR DURING THE PROCESS OF PLANTING. THE BALLS SHALL REMAIN INTACT DURING ALL OPERATIONS. ALL PLANTS THAT CANNOT BE PLANTED AT ONCE MUST BE HEELED-IN BY SETTING IN THE GROUND AND COVERING THE BALLS WITH SOIL OR MULCH AND THEN WATERING. HEMP BURLAP AND TWINE IS PREFERABLE TO TREATED. IF TREATED BURLAP IS USED, ALL TWINE IS TO BE CUT FROM AROUND THE TRUNK AND ALL BURLAP IS TO BE REMOVED.
8. PLANTS TRANSPORTED TO THE PROJECT IN OPEN VEHICLES SHALL BE COVERED WITH TARPS OR OTHER SUITABLE COVERS SECURELY FASTENED TO THE BODY OF THE VEHICLE TO PREVENT INJURY TO THE PLANTS. CLOSED VEHICLES SHALL BE ADEQUATELY VENTILATED TO PREVENT OVERHEATING OF THE PLANTS. EVIDENCE OF INADEQUATE PROTECTION FOLLOWING DIGGING, CARELESSNESS WHILE IN TRANSIT OR STORAGE SHALL BE CAUSE FOR REJECTION OF PLANT MATERIAL. ALL PLANTS SHALL BE KEPT MOIST, FRESH, AND PROTECTED. SUCH PROTECTION SHALL ENCOMPASS THE ENTIRE PERIOD DURING WHICH THE PLANTS ARE IN TRANSIT, BEING HANDLED, OR ARE IN TEMPORARY STORAGE.
9. ALL PLANT MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE CORRESPONDING LANDSCAPE PLAN AND PLANTING DETAILS.
10. LANDSCAPE CONTRACTOR SHALL MAKE BEST EFFORT TO INSTALL PLANTINGS ON THE SAME DAY AS DELIVERY. IF PLANTS ARE NOT PLANTED IMMEDIATELY ON SITE, PROPER CARE SHALL BE TAKEN TO PLACE THE PLANTINGS IN PARTIAL SHADE WHEN POSSIBLE. THE ROOT BALL SHALL BE KEPT MOIST AT ALL TIMES AND COVERED WITH MOISTENED MULCH OR ADDED WOODCHIPS. PROPER IRRIGATION SHALL BE SUPPLIED SO AS TO NOT ALLOW THE ROOT BALL TO DRY OUT. PLANTINGS SHALL BE UNTIED AND PROPER SPACING SHALL BE ALLOTTED FOR AIR CIRCULATION AND TO PREVENT DISEASE, WILTING, AND LEAF LOSS. PLANTS THAT REMAIN UNPLANTED FOR A PERIOD OF TIME GREATER THAN THREE (3) DAYS SHALL BE HEALED IN WITH TOPSOIL OR MULCH AND WATERED AS REQUIRED TO PRESERVE ROOT MOISTURE.
11. NO PLANT MATERIAL SHALL BE PLANTED IN MUDDY OR FROZEN SOIL.
12. PLANTS WITH INJURED ROOTS OR BRANCHES SHALL BE PRUNED PRIOR TO PLANTING UTILIZING CLEAN, SHARP TOOLS. ONLY DISEASED OR INJURED PLANTS SHALL BE REMOVED.
13. IF ROCK OR OTHER UNDERGROUND OBSTRUCTION IS ENCOUNTERED, THE LANDSCAPE DESIGNER RESERVES THE RIGHT TO RELOCATE OR ENLARGE PLANTING PITS OR DELETE PLANT MATERIAL FROM THE CONTRACT.
14. IF PLANTS ARE PROPOSED WITHIN SIGHT TRIANGLES, TREES SHALL BE LIMBED AND MAINTAINED TO A HEIGHT OF EIGHT FEET (8') ABOVE GRADE, AND SHRUBS, GROUND COVER, PERENNIALS AND ANNUALS SHALL BE MAINTAINED TO A HEIGHT NOT TO EXCEED TWO FEET (2') ABOVE GRADE UNLESS OTHERWISE NOTED OR SPECIFIED BY THE GOVERNING MUNICIPALITY OR AGENCY.
15. INSTALLATION SHALL OCCUR DURING THE FOLLOWING SEASONS:
    PLANTS (MARCH 15 - DECEMBER 15)
    LAWNS (MARCH 15 - JUNE 15 OR SEPTEMBER 1 - DECEMBER 1)
16. THE FOLLOWING TREES ARE SUSCEPTIBLE TO TRANSPLANT SHOCK AND SHALL NOT BE PLANTED DURING THE FALL SEASON (STARTING SEPTEMBER 15):

ABIES CONCOLOR	CORNUS VARIETIES	OSTRYA VIRGINIANA
ACER BUERGERIANUM	CRATAEGUS VARIETIES	PINUS NIGRA
ACER FREEMANII	CUPRESSOCYPARIS LEYLANDII	PLATANUS VARIETIES
ACER RUBRUM	FAGUS VARIETIES	POPULUS VARIETIES
ACER SACCHARINUM	HALESIA VARIETIES	PRUNUS VARIETIES
BETULA VARIETIES	ILEX X FOSTERII	PYRUS VARIETIES
CARPINUS VARIETIES	ILEX NELLIE STEVENS	QUERCUS VARIETIES (NOT Q. PALUSTRIS)
CEDRUS DEODARA	ILEX OPACA	SALIX WEEPING VARIETIES
CELTIS VARIETIES	JUNIPERUS VIRGINIANA	SORBUS VARIETIES
CERCIDIPHYLLUM VARIETIES	KOELREUTERIA PANICULATA	TAXODIUM VARIETIES
CERCIS CANADENSIS	LIQUIDAMBAR VARIETIES	TAXUX B REPANDENS
CORNUS VARIETIES	LIRIODENDRON VARIETIES	TILIA TOMENTOSA VARIETIES
CRATAEGUS VARIETIES	MALUS IN LEAF	ULMUS PARVIFOLIA VARIETIES
	NYSSA SYLVATICA	ZELKOVA VARIETIES

17. IF A PROPOSED PLANT IS UNATTAINABLE OR ON THE FALL DIGGING HAZARD LIST, AN EQUIVALENT SPECIES OF THE SAME SIZE MAY BE REQUESTED FOR SUBSTITUTION OF THE ORIGINAL PLANT. ALL SUBSTITUTIONS SHALL BE APPROVED BY THE PROJECT LANDSCAPE DESIGNER OR MUNICIPAL OFFICIAL PRIOR TO ORDERING AND INSTALLATION.
18. DURING THE COURSE OF CONSTRUCTION/PLANT INSTALLATION, EXCESS AND WASTE MATERIALS SHALL BE CONTINUOUSLY AND PROMPTLY REMOVED AT THE END OF EACH WORK DAY. ALL DEBRIS, MATERIALS, AND TOOLS SHALL BE PROPERLY STORED, STOCKPILED OR DISPOSED OF AND ALL PAVED AREAS SHALL BE CLEANED.
19. THE LANDSCAPE CONTRACTOR SHALL DISPOSE OF ALL RUBBISH AND EXCESS SOIL AT HIS EXPENSE TO AN OFF-SITE LOCATION AS APPROVED BY THE LOCAL MUNICIPALITY.
20. A 90-DAY MAINTENANCE PERIOD SHALL BEGIN IMMEDIATELY AFTER ALL PLANTS HAVE BEEN SATISFACTORILY INSTALLED.
21. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO, REPLACING MULCH THAT HAS BEEN DISPLACED BY EROSION OR OTHER MEANS, REPAIRING AND RESHAPING WATER RINGS OR SAUCERS, MAINTAINING STAKES AND GUYS IF ORIGINALLY REQUIRED, WATERING WHEN NEEDED OR DIRECTED, WEEDING, PRUNING, SPRAYING, FERTILIZING, MOWING THE LAWN, AND PERFORMING ANY OTHER WORK REQUIRED TO KEEP THE PLANTS IN A HEALTHY CONDITION.
22. MOW ALL GRASS AREAS AT REGULAR INTERVALS TO KEEP THE GRASS HEIGHT FROM EXCEEDING THREE INCHES (3"). MOWING SHALL BE PERFORMED ONLY WHEN GRASS IS DRY. MOWER BLADE SHALL BE SET TO REMOVE NO MORE THAN ONE THIRD (1/3) OF THE GRASS LENGTH. WHEN THE AMOUNT OF GRASS IS HEAVY, IT SHALL BE REMOVED TO PREVENT DESTRUCTION OF THE UNDERLYING TURF. MOW GRASS AREAS IN SUCH A MANNER AS TO PREVENT CLIPPINGS FROM BLOWING ON PAVED AREAS, AND SIDEWALKS. CLEANUP AFTER MOWING SHALL INCLUDE SWEEPING OR BLOWING OF PAVED AREAS AND SIDEWALKS TO CLEAR THEM FROM MOWING DEBRIS.
23. GRASSED AREAS DAMAGED DURING THE PROCESS OF THE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, WHO SHALL RESTORE THE DISTURBED AREAS TO A CONDITION SATISFACTORY TO THE PROJECT LANDSCAPE DESIGNER, MUNICIPAL OFFICIAL, OR OWNER/OWNER'S REPRESENTATIVE. THIS MAY INCLUDE FILLING TO GRADE, FERTILIZING, SEEDING, AND MULCHING.
24. SHOULD THE OWNER REQUIRE MAINTENANCE BEYOND THE STANDARD 90-DAY MAINTENANCE PERIOD, A SEPARATE CONTRACT SHALL BE ESTABLISHED.
25. LANDSCAPE CONTRACTOR SHALL WATER NEW PLANTINGS FROM TIME OF INSTALL AND THROUGHOUT REQUIRED 90-DAY MAINTENANCE PERIOD UNTIL PLANTS ARE ESTABLISHED. IF ON-SITE WATER IS NOT AVAILABLE AT THE PROJECT LOCATION, THE LANDSCAPE CONTRACTOR SHALL FURNISH IT BY MEANS OR A WATERING TRUCK OR OTHER ACCEPTABLE MANNER.
26. THE QUANTITY OF WATER APPLIED AT ONE TIME SHALL BE SUFFICIENT TO PENETRATE THE SOIL TO A MINIMUM OF EIGHT INCHES (8") IN SHRUB BEDS AND SIX INCHES (6") IN TURF AREAS AT A RATE WHICH WILL PREVENT SATURATION OF THE SOIL.
27. IF AN AUTOMATIC IRRIGATION SYSTEM HAS BEEN INSTALLED, IT CAN BE USED FOR WATERING PLANT MATERIAL. HOWEVER, FAILURE OF THE SYSTEM DOES NOT ELIMINATE THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY OF PLANT HEALTH AND ESTABLISHMENT.

PLANT MATERIAL GUARANTEE NOTES:

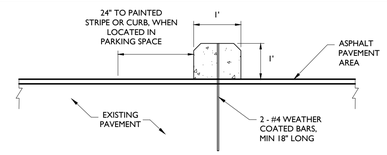
1. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE YEAR (1 YR.) FROM APPROVAL OF LANDSCAPE INSTALLATION BY THE PROJECT LANDSCAPE DESIGNER, MUNICIPAL OFFICIAL, OR OWNER/OWNER'S REPRESENTATIVE.
2. THE LANDSCAPE CONTRACTOR SHALL REMOVE AND REPLACE DYING, DEAD, OR DEFECTIVE PLANT MATERIAL AT HIS EXPENSE. THE LANDSCAPE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS COMPANY'S OPERATIONS.
3. ALL REPLACEMENT PLANTS SHALL BE OF THE SAME SPECIES AND SIZE AS SPECIFIED ON THE APPROVED OR FINAL PLANT LIST. REPLACEMENTS RESULTING FRO



ACCESSIBLE PARKING SIGN WITH BOLLARD DETAIL

NOT TO SCALE

1

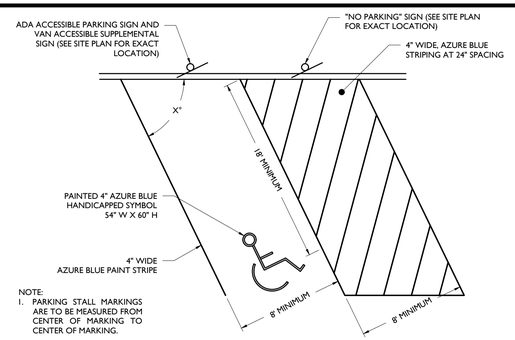


CONCRETE WHEEL STOP DETAIL

NOT TO SCALE

NOTES:
1. ON CONCRETE PAVEMENT, SECURE WHEEL STOP WITH EPOXY BONDING AGENT.
2. WHEEL STOP SHALL BE 6' LONG.
3. WHEEL STOP SHALL BE PREFABRICATED CONCRETE.

5

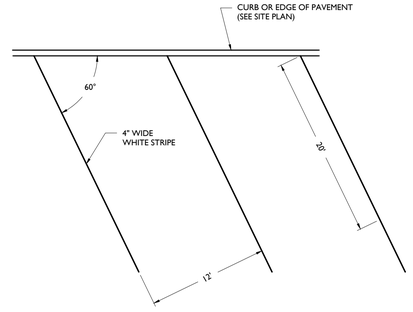


NOTE:
1. PARKING STALL MARKINGS ARE TO BE MEASURED FROM CENTER OF MARKING TO CENTER OF MARKING.

ACCESSIBLE PARKING STALL MARKINGS

NOT TO SCALE

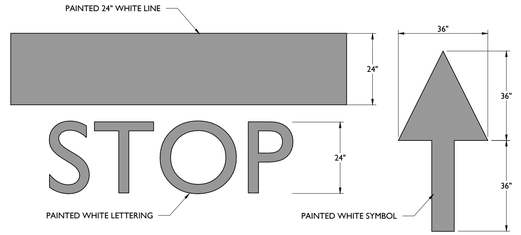
2



ANGLED PARKING STALL MARKINGS

NOT TO SCALE

3

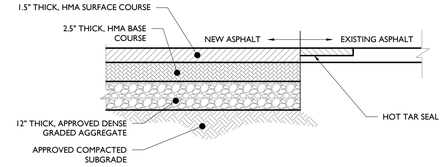


STOP BAR & ARROW DETAILS

NOT TO SCALE

NOTE:
1. CONTRACTOR TO PROPOSE 12" THERMOPLASTIC STRIPING AT ENTRANCE TUNNEL.

4



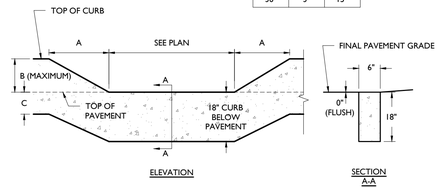
FULL DEPTH ASPHALT PAVEMENT DETAIL

NOT TO SCALE

NOTE:
HMA MIX AND DENSE GRADED AGGREGATE SHALL CONFORM TO STATE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.

6

FLUSH CURB DIMENSIONS		
A	B	C
72"	6"	12"
60"	5"	13"
48"	4"	14"
36"	3"	15"



ELEVATION

SECTION A-A

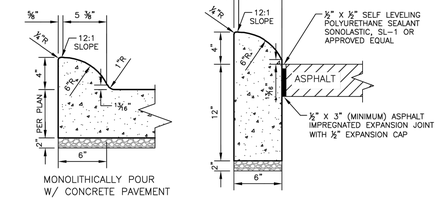
FLUSH CURB DETAIL

NOT TO SCALE

7

PROVIDE CONTRACTION JT. AT 20' INTERVAL AND 1" PREFORMED EXPANSION JT. AT 100' INTERVAL (100' INTERVAL IF SLIPFORMED OR 40' INTERVAL IF FORMED & POURED IN PLACE)

CURING COMPOUND FOR DETACHED CURB SHALL BE CLEAR BOND BY GUARDIAN CHEMICAL. CONCRETE SHALL BE CLASS "A" 4,000 PSI UNLESS OTHERWISE NOTED

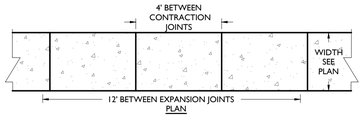


MONOLITHICALLY POUR W/ CONCRETE PAVEMENT

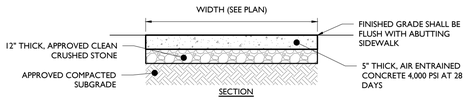
4" SLOPING CONCRETE CURB

N.T.S.

8



PLAN



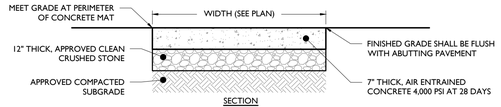
SECTION

CONCRETE WALKWAY DETAIL

NOT TO SCALE

NOTES:
1. MAXIMUM CROSS SLOPE SHALL BE ¼" PER FOOT.
2. ½" EXPANSION JOINTS SHALL BE PROVIDED AT 12' INTERVALS WITH PRE-MOLDED, BITUMINOUS JOINT FILLER, RECESSED ¼" FROM THE SURFACE.
3. 1" DEEP BY ½" WIDE, TOOLED CONTRACTION JOINTS SHALL BE PROVIDED AT 4' INTERVALS.
4. EXPANSION JOIN SHALL BE PROVIDED WHERE ADJACENT TO A BUILDING.

9



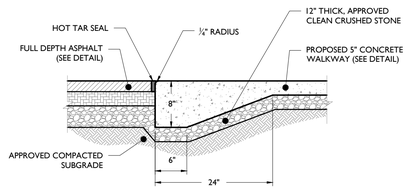
SECTION

7" CONCRETE MAT FOR TRASH ENCLOSURE

NOT TO SCALE

NOTES:
1. ½" EXPANSION JOINTS WITH WATER SEAL SHALL BE PROVIDED AT 12' INTERVALS WITH PRE-MOLDED, BITUMINOUS JOINT FILLER, RECESSED ½" FROM THE SURFACE. LONGITUDINAL REBAR TO BE CUT AT EXPANSION JOINTS.
2. 1" DEEP BY ¼" WIDE, TOOLED CONTRACTION JOINTS SHALL BE PROVIDED AT MID-POINT BETWEEN EXPANSION JOINTS OR 6' INTERVALS MAX.
3. CONCRETE SHALL RECEIVE BROOM FINISH.
4. ALL EXPOSED CORNERS TO HAVE 12" CHAMFER.

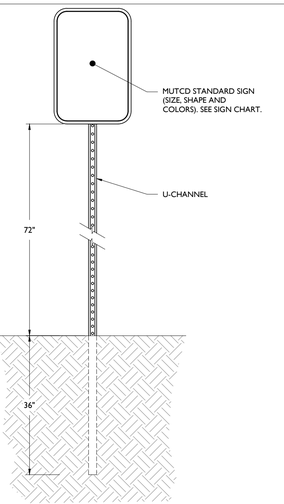
10



CONCRETE TO ASPHALT TRANSITION DETAIL

NOT TO SCALE

11



SIGN POST DETAIL

NOT TO SCALE

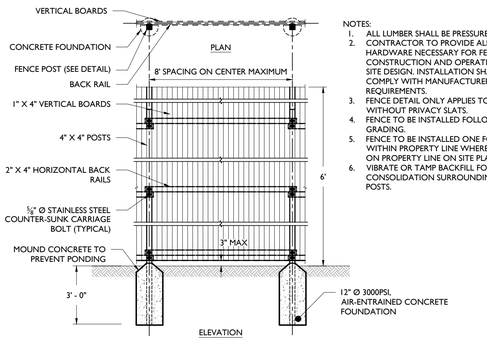
M.U.T.C.D. NUMBER	TEXT	COLOR		SIZE OF SIGN (WIDTH X HEIGHT)	TYPE OF MOUNT
		LEGEND	BACKGROUND		
STOP SIGN (R1-1)	STOP	RED	WHITE	30"x30"	GROUND
DO NOT ENTER (R5-1)	DO NOT ENTER	RED	WHITE	30"x30"	GROUND

NOTE:
1. ALL SIGNS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), EXCEPT AS NOTED.
2. ALL SIGNS SHALL BE MOUNTED AS TO NOT OBSTRUCT THE SHAPE OF "STOP" (R1-1) AND "YIELD" (R1-2) SIGNS.

SIGN DATA TABLE

NOT TO SCALE

15



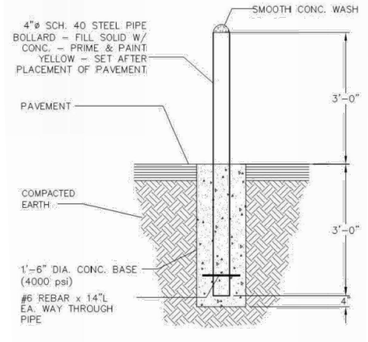
ELEVATION

BOARD ON BOARD FENCE DETAIL

NOT TO SCALE

NOTES:
1. ALL LUMBER SHALL BE PRESSURE TREATED.
2. CONTRACTOR TO PROVIDE ALL HARDWARE NECESSARY FOR FENCE CONSTRUCTION AND OPERATION, PER SITE DESIGN. INSTALLATION SHALL COMPLY WITH MANUFACTURER'S REQUIREMENTS.
3. FENCE DETAIL ONLY APPLIES TO FENCE WITHOUT PRIVACY SLATS.
4. FENCE TO BE INSTALLED FOLLOWING SITE GRADING.
5. FENCE TO BE INSTALLED ONE FOOT WITHIN PROPERTY LINE WHERE SHOWN ON PROPERTY LINE ON SITE PLAN.
6. VIBRATE OR TAMP BACKFILL FOR CONSOLIDATION SURROUNDING FENCE POSTS.

13



BOLLARD DETAIL

N.T.S.

14

HEAVY DUTY

7" CONCRETE MAT

NOT TO SCALE

NOTES:
1. ½" EXPANSION JOINTS WITH WATER SEAL SHALL BE PROVIDED AT 12' INTERVALS WITH PRE-MOLDED, BITUMINOUS JOINT FILLER, RECESSED ¼" FROM THE SURFACE. LONGITUDINAL REBAR TO BE CUT AT EXPANSION JOINTS.
2. 1" DEEP BY ¼" WIDE, TOOLED CONTRACTION JOINTS SHALL BE PROVIDED AT MID-POINT BETWEEN EXPANSION JOINTS OR 6' INTERVALS MAX.
3. CONCRETE SHALL RECEIVE BROOM FINISH.
4. ALL EXPOSED CORNERS TO HAVE 12" CHAMFER.

12

ISSUE	DATE	BY	DESCRIPTION
6	03/20/2024	JA	FOR EIS PREPARATION
5	05/23/2023	JA	FOR MUNICIPAL & COUNTY RESUBMISSIONS
4	03/23/2023	JA	FOR MUNICIPAL & COUNTY RESUBMISSIONS
3	03/01/2023	JA	FOR MUNICIPAL & COUNTY RESUBMISSIONS
2	01/20/2023	JLO	PER AXIS KICKOFF REVISIONS
1	01/06/2023	AWA	FOR CLIENT REVIEW

NOT APPROVED FOR CONSTRUCTION

STONEFIELD engineering & design

Rutherford, NJ · New York, NY · Boston, MA
Princeton, NJ · Tampa, FL · Detroit, MI
www.stonefieldeng.com

Headquarters: 92 Park Avenue, Rutherford, NJ 07070
Phone 201.340.4468 · Fax 201.340.4472

SITE PLAN SET

HUTTON ST 21, LLC

PROPOSED CAR WASH

SECTION 182.05, BLOCK 1, LOT 9.2,
556 SOUTHWESTERN BOULEVARD
TOWN OF HAMBURG
ERIE COUNTY, NEW YORK

JEFFREY A. MARTELL, P.E.
NEW YORK LICENSE No. 86502
LICENSED PROFESSIONAL ENGINEER

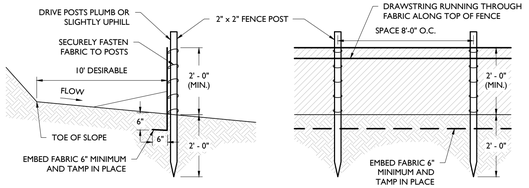
STONEFIELD engineering & design

SCALE: N.T.S. | PROJECT ID: RUT-220250

TITLE: CONSTRUCTION DETAILS

DRAWING: C-10

Z:\RUT\HAMBURG\RUT-220250-HUTTON GROUP - 556 SOUTHWESTERN BOULEVARD, HAMBURG, NY\CAD\PLOTTING\11X17.DWG

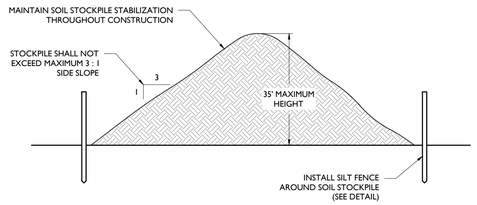


NOTES:
1. SECURELY FASTEN GEOTEXTILE TO FENCE POST BY USE OF WIRE TIES, HOG RINGS, STAPLES OR POCKETS. FOUR TO SIX FASTENERS PER POST.
2. GEOTEXTILE FABRIC TO BE EMBEDDED 6" (MIN.) AND TAMP IN PLACE.
3. SECURELY FASTEN ENDS OF INDIVIDUAL ROLLS OF GEOTEXTILE TO A POST BY WRAPPING EACH END OF THE GEOTEXTILE AROUND THE POST TWICE AND ATTACHING AS SPECIFIED IN NOTE 1 ABOVE. SPLICING OF INDIVIDUAL ROLLS SHALL NOT OCCUR AT LOW POINTS.
4. SET SILT FENCE WITHIN PROJECT LIMITS. 10'-0" IS DESIRABLE.

SILT FENCE DETAIL

NOT TO SCALE

1

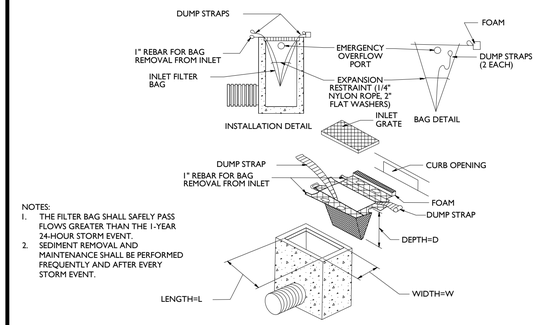


NOTES:
1. STOCKPILES SHALL BE SITUATED SO AS NOT TO OBSTRUCT NATURAL DRAINAGE OR CAUSE OFF-SITE ENVIRONMENTAL DAMAGE.
2. STOCKPILES SHALL BE STABILIZED IN ACCORDANCE WITH THE STANDARDS FOR PERMANENT OR TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION, AS APPROPRIATE (SEE SOIL EROSION NOTES).

SOIL STOCKPILE DETAIL

NOT TO SCALE

2

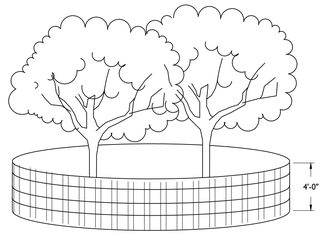


NOTES:
1. THE FILTER BAG SHALL SAFELY PASS FLOWS GREATER THAN THE 1-YEAR 24-HOUR STORM EVENT.
2. SEDIMENT REMOVAL AND MAINTENANCE SHALL BE PERFORMED FREQUENTLY AND AFTER EVERY STORM EVENT.

INLET FILTER BAG DETAIL

NOT TO SCALE

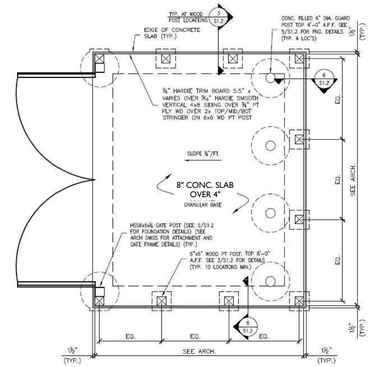
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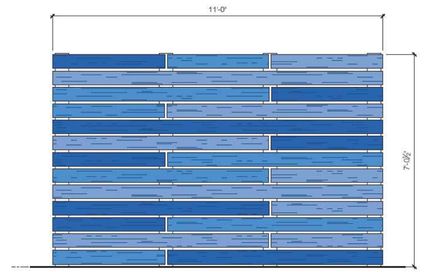


NOTES:
1. SNOW FENCING IS TO BE 4'-0" HIGH AND SELF SUPPORTED.
2. DO NOT STOCKPILE MATERIALS OR STORE EQUIPMENT WITHIN THE TREE PROTECTION FENCING.
3. SNOW FENCE TO BE INSTALLED AT DRIP LINE OF EXISTING TREE OR TREE CLUSTER TO BE PROTECTED OR NO CLOSER THAN 6' FROM TREE TRUNK IF NECESSARY.
4. IF THE PROJECT AREA ENCOMPASSES A PORTION OF THE DRIP LINE OF THE TREE, NO MORE THAN ONE THIRD OF THE OF THE TOTAL AREA OF WITHIN THE DRIP LINE SHOULD BE DISTURBED BY CONSTRUCTION OR REGRADING AND A 3" THICK LAYER OF MULCH SHALL BE INSTALLED OVER THE AREA OF THE DRIP LINE WHICH IS NOT PROTECTED BY FENCING TO PROVIDE A CUSHION.

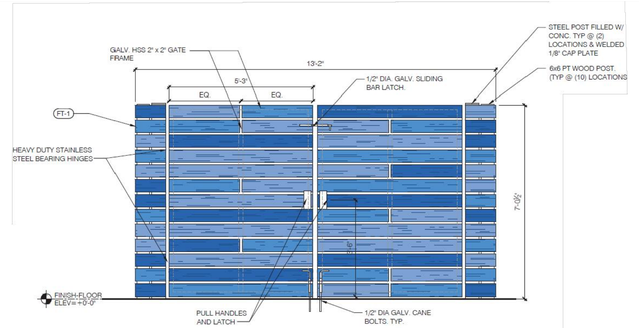
TREE PROTECTION DETAIL

4

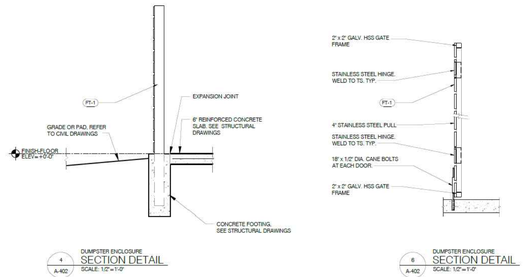




DUMPSTER ENCLOSURE
SIDE ELEVATION
SCALE: 1/2"=1'-0"
2 A-403



DUMPSTER ENCLOSURE
FRONT ELEVATION
SCALE: 1/2"=1'-0"
1 A-403



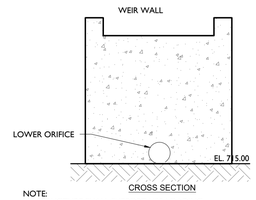
DUMPSTER ENCLOSURE
SECTION DETAIL
SCALE: 1/2"=1'-0"
4 A-402

DUMPSTER ENCLOSURE
SECTION DETAIL
SCALE: 1/2"=1'-0"
6 A-402

PROPOSED TRASH ENCLOSURE

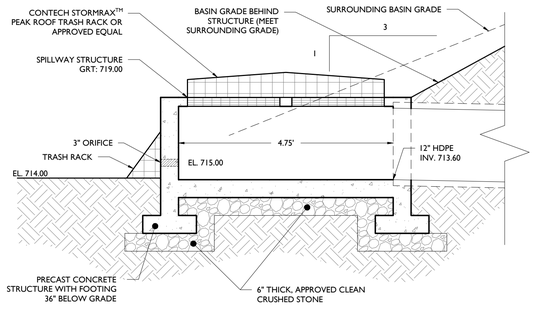
NOT TO SCALE

5



CROSS SECTION

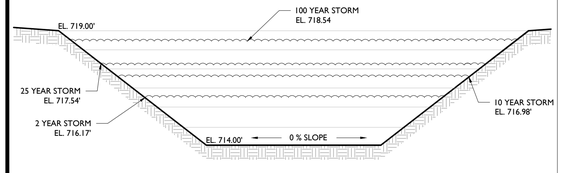
NOTE:
1. STRUCTURE SHALL SUPPORT H25 LOADING.
2. STRUCTURE TO BE CONSTRUCTED OF REINFORCED PRECAST CONCRETE.
3. ALL JOINTS TO BE WATER-TIGHT.
4. TRASH RACKS CONSTRUCTED OF NON-CORROSIVE MATERIALS TO BE PROVIDED



ABOVE-GROUND OUTLET STRUCTURE (OS-1) DETAIL

NOT TO SCALE

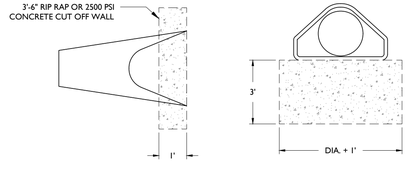
6



DETENTION BASIN DETAIL (B-1)

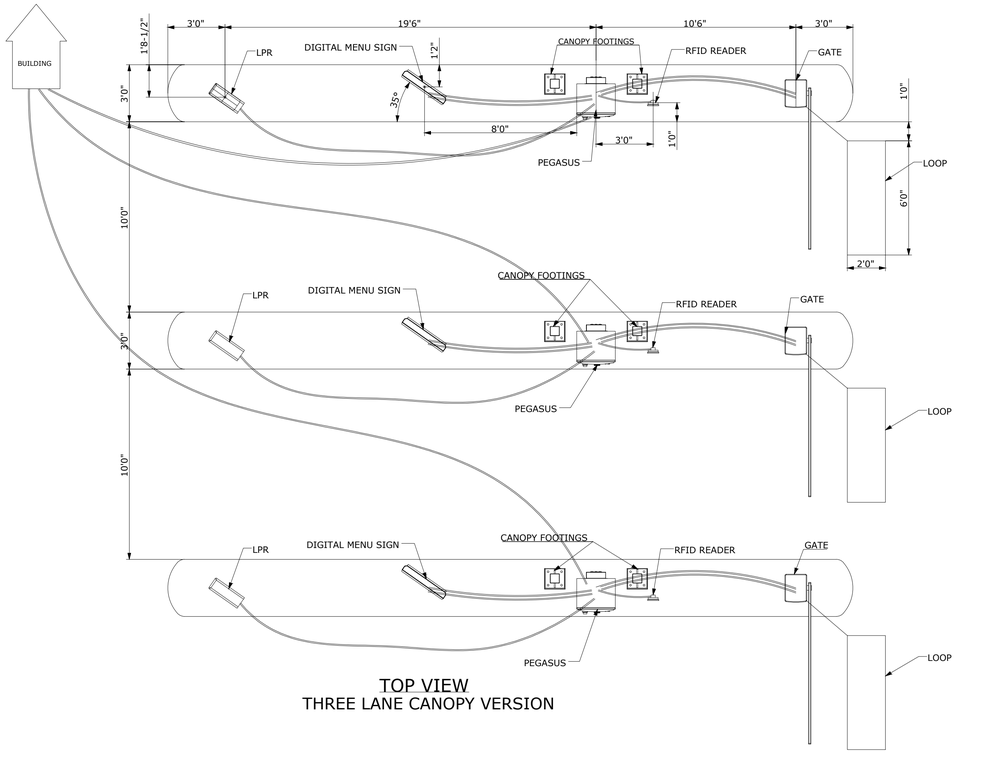
NOT TO SCALE

NOTES:
BASIN CONSTRUCTION MUST NOT COMPACT SOILS BELOW BASIN BOTTOM.



FLARED END SECTION DETAIL

NOT TO SCALE



TOP VIEW
THREE LANE CANOPY VERSION

7

ISSUE	DATE	BY	DESCRIPTION
6	03/20/2024	JA	FOR EIS PREPARATION
5	05/23/2023	JA	FOR MUNICIPAL & COUNTY RESUBMISSIONS
4	03/23/2023	JA	FOR MUNICIPAL & COUNTY RESUBMISSIONS
3	03/01/2023	JA	FOR MUNICIPAL & COUNTY RESUBMISSIONS
2	01/20/2023	JLO	PER AXIS KICKOFF REVISIONS
1	01/06/2023	AWVA	FOR CLIENT REVIEW

NOT APPROVED FOR CONSTRUCTION

STONEFIELD engineering & design
Rutherford, NJ · New York, NY · Boston, MA
Princeton, NJ · Tampa, FL · Detroit, MI
www.stonefieldeng.com
Headquarters: 92 Park Avenue, Rutherford, NJ 07070
Phone 201.340.4468 · Fax 201.340.4472

SITE PLAN SET

HUTTON ST 21, LLC

PROPOSED CAR WASH

SECTION I 82.05, BLOCK I, LOT 9.2
5363 SOUTHWESTERN BOULEVARD
TOWN OF HAMBURG
ERIE COUNTY, NEW YORK

JEFFREY A. MARTELL, P.E.
NEW YORK LICENSE No. 86502
LICENSED PROFESSIONAL ENGINEER

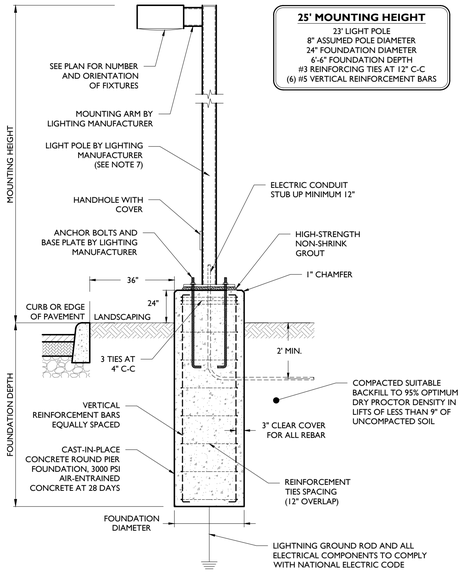
STONEFIELD engineering & design

SCALE: N.T.S. | PROJECT ID: RUT-220250

TITLE: CONSTRUCTION DETAILS

DRAWING: C-11

P:\RUTHERFORD\RUT\2021\RUT-220250 HUTTON GROUP - 5363 SOUTHWESTERN BOULEVARD, HAMBURG, NY\CAD\DRAWINGS\RUT-220250-GEN-DETAILS.DWG



LIGHT POLE INSTALLATION DETAIL

NOT TO SCALE

NOTES:

1. MINIMUM SOIL BEARING PRESSURE OF 1500 PSF, SOIL FRICTION ANGLE OF 30 DEGREES, AND SOIL DRY UNIT WEIGHT OF 120 PCF SHALL BE CONFIRMED IN THE FIELD BY A QUALIFIED PROFESSIONAL.
2. CAST-IN-PLACE CONCRETE SHALL BE CONSOLIDATED USING VIBRATOR.
3. ALL REBAR TO BE NEW GRADE 60 STEEL.
4. PRE-CAST PIERS ACCEPTABLE UPON WRITTEN APPROVAL OF SHOP DRAWING BY ENGINEER.
5. CONCRETE TO BE INSTALLED A MINIMUM OF 7 DAYS PRIOR TO INSTALLING LIGHT POLE. POURED CONCRETE MIX REQUIRED TO OBTAIN 80% OF DESIGN STRENGTH PRIOR TO INSTALLING LIGHT POLE.
6. CONCRETE SHALL HAVE A MAXIMUM SLUMP OF 4" (WITHIN 1" TOLERANCE).
7. POLE SHALL BE RATED FOR 10 MPH HIGHER THAN MAXIMUM WIND SPEED 33FT ABOVE GROUND FOR THE AREA BASED ON ANSI/ASCE 7-93.
8. POUR TO BE TERMINATED AT A FORM.
9. WORK SHALL CONFORM TO ACI BEST PRACTICES FOR APPROPRIATE TEMPERATURE AND WEATHER CONDITIONS.
10. CONTRACTOR TO TEMPORARILY SUPPORT ADJACENT SOIL AND STRUCTURES DURING EXCAVATION IF REQUIRED.

1

Project		Catalog #		Type	
Prepared by		Notes		Date	



Lumark

PRV / PRV-XL Prevail LED

Area / Site Luminaire

Typical Applications

Outdoor • Parking Lots • Walkways • Roadways • Building Areas

Interactive Menu

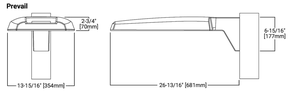
- Ordering Information page 2
- Mounting Details page 3
- Optical Configurations page 3
- Product Specifications page 3
- Energy and Performance Data page 4
- Control Options page 5

Quick Facts

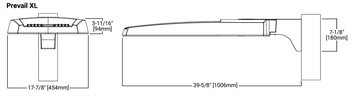
- Lumen packages range from 7,100 - 48,600 lumens (50W - 350W)
- Replaces 70W up to 1,000W HID equivalents
- Efficacies up to 148 lumens per watt
- Energy and maintenance savings up to 85% versus HID solutions
- Standard universal quick mount arm with universal drill pattern

Dimensional Details

Prevail



Prevail XL



Product Certifications

Product Features

COOPER Lighting Solutions

Lumark

PRV / PRV-XL Prevail

Ordering Information

SAMPLE NUMBER: **PRV-XL-C75-D-UNV-T4-SA-BZ**

Product Family [1, 2]	Light Engine [3]	Driver	Voltage	Distribution	Mounting (included)	Color
PRV=Prevail	**C15**=(1 LED) 7,100 Nominal Lumens **C25**=(2 LEDs) 13,100 Nominal Lumens **C40**=(2 LEDs) 17,100 Nominal Lumens **C60**=(2 LEDs) 26,000 Nominal Lumens	**D**=Dimming (0-10V)	**UNV**=Universal (120-277V) **347**=347V [4] **480**=480V [4]	**T2**=Type II **T3**=Type III **T4**=Type IV **T5**=Type V	**SA**=Standard Versatile Arm **MA**=Mast Arm **WM**=Wall Mount Arm	**AP**=Grey **BZ**=Bronze **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White
PRV-XL=Prevail XL	**C75**=(4 LED) 26,100 Nominal Lumens **C100**=(4 LED) 31,000 Nominal Lumens **C125**=(4 LED) 36,000 Nominal Lumens **C150**=(6 LED) 41,100 Nominal Lumens **C175**=(6 LED) 48,600 Nominal Lumens					

Options (Add as Suffix)	Accessories (Order Separately) [5]
7030=70 CRI / 3000K CCT [6] **7050**=70 CRI / 5000K CCT [6] **HA**=50°C High Ambient Temperature [7] **LSS**=Options Rotated 90° Left **RRD**=Optics Rotated 90° Right **10K**=10kV/10kA UL 1449 Fused Surge Protective Device **HA**=50°C High Ambient Temperature [7] **PER**=NEMA 3-PIN Twistlock Photocontrol Receptacle **PER7**=NEMA 7-PIN Twistlock Photocontrol Receptacle **MSP-L12**=Integrated Sensor On/Off Dimming Operation, 8' – 12' Mounting Height [8, 9] **MSP-DIM-L30**=Integrated Sensor For Dimming Operation, 12' – 30' Mounting Height [8, 9] **MSP-L12**=Integrated Sensor On/OFF Operation, 8' – 12' Mounting Height [8, 9] **MSP-L30**=Integrated Sensor ON/OFF Dimming Operation, 12' – 30' Mounting Height [8, 9] **MS/DIM-L20**=Motion Sensor for Dimming Operation, 9' – 20' Mounting Height [8, 10] **MS/DIM-L40W**=Motion Sensor for Dimming Operation, 21' – 40' Mounting Height [8, 10] **MS-L20**=Motion Sensor for ON/OFF Operation, 9' – 20' Mounting Height [8, 10] **MS-L40W**=Motion Sensor for ON/OFF Operation, 21' – 40' Mounting Height [8, 10] **2W**=Absentia-enabled 4-PIN Twistlock Receptacle [8, 11, 12] **ZW-SWPD-XXX**=Wavelinx Wireless Sensor, 7' – 13' Mounting Height [8, 11, 12, 13] **ZW-SWPD5-XXX**=Wavelinx Wireless Sensor, 15' – 40' Mounting Height [8, 11, 12, 13] **LWR-LW**=LumaWatt Pro Wireless Sensor, Wide Lens for 8' – 16' Mounting Height [8, 14] **LWR-LN**=LumaWatt Pro Wireless Sensor, Narrow Lens for 16' – 40' Mounting Height [8, 14] **(See Table Below)**=LumenSafe Integrated Network Security Camera [8, 15]	**PRVMM-XX**=Wall Mount Kit [9] **PRVMA-XX**=Mast Arm Mounting Kit [9] **PRVWM-XX**=Wall Mount Arm Mounting Kit [9] **PRVXLSA-XX**=Standard Arm Mounting Kit (For Prevail XL) [16] **PRVXLWM-XX**=Wall Mount Kit (For Prevail XL) [16] **PRVXLMA-XX**=Mast Arm Mounting Kit (For Prevail XL) [16] **MA1010-XX**=Single Tenon Adapter for 3-1/2" O.D. Tenon **MA1011-XX**=Dual Tenon Adapter for 3-1/2" O.D. Tenon **MA1017-XX**=Single Tenon Adapter for 2-3/8" O.D. Tenon **MA1018-XX**=Dual Tenon Adapter for 2-3/8" O.D. Tenon **HS/VISR**=Visor Side Shield [8, 16] **VGS-FB**=Vertical Glare Shield, Front/Back [16] **VGS-SSR**=Vertical Glare Shield, Side [16] **GA/RA1013**=Photocontrol Shorting Cap **GA/RA1014**=NEMA Photocontrol – 120V **GA/RA1016**=NEMA Photocontrol – Multi-Tap 105-285V **GA/RA1026**=NEMA Photocontrol – 208V **GA/RA1027**=NEMA Photocontrol – 480V **ISH0-01**=Integrated Sensor Programming Remote [16] **FSR-100**=Wireless Configuration Tool for Occupancy Sensor [8] **SWPD4-XX**=WaveLinx Wireless Sensor, 7' – 13' Mounting Height [12, 13, 17] **SWPD5-XX**=WaveLinx Wireless Sensor, 15' – 40' Mounting Height [12, 13, 17] **WGLC-TP-10A**=WaveLinx Outdoor Control Module (7-PIN) [18]

NOTES:

1. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
2. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for applications. Refer to installation instructions and pole white paper WPS130001EN for additional support information.
3. Standard 4000K CCT and 70CRI.
4. Only for use with 480Y Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
5. Use dedicated SS fixes on product website for non-standard CCTs.
6. Option will come factory installed. House Side Shield not suitable with T5 distribution or CSA luminaire package.
7. Not available with sensor options.
8. Only available in PRV configurations C15, C25, C40 or C60.
9. Controls system is not available with photocontrol receptacle (PER or PER7) or other controls systems (MS, MSP, 2W or LWR).
10. Utilizes the Wattstopper sensor FSP-211.
11. Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F).
12. In order for the device to be field configurable, requires MAC Gateway components WAC-PAE and WPOE-120 in appropriate quantities. Only compatible with WaveLinx system and software and requires system components to be installed for operation. See website for more Wavelinx application information.
13. Replace XX with sensor color (WH, BZ, or BK).
14. LumaWatt Pro wireless sensors are factory installed and require network components LWP-SW-1, LWP-GW-1, and LWP-PoE8 in appropriate quantities. See website for LumaWatt Pro application information.
15. Only available in PRV-XL configurations C75, C100, C125, C150, or C175.
16. Not available with 347V, 480V, or HA options. Consult LumenSafe system product pages for additional details and compatability information.
17. Replace XX with color (WH, BZ, or BK).
18. Must order one per optics/LED when ordering as a field-installable accessory (1, 2, 4, or 6).
19. This tool enables adjustment to Integrated Sensor (MSP) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information.
20. This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information.
21. Requires WaveLinx enabled 4-PIN twistlock receptacle (2W) option.
22. Requires 7-PIN NEMA twistlock photocontrol receptacle (PER7) option. The WGLC-T cannot be used in conjunction with other controls systems (MS, MSP, 2W or LWR).

LumenSafe Integrated Network Security Camera Technology Options (Add as Suffix)

Product Family	Camera Type	Data Backhaul
L=LumenSafe Technology	**D**=Dome Camera	**C**=Cellular, Customer Installed SIM Card **A**=Cellular, Factory Installed AT&T SIM Card **V**=Cellular, Factory Installed Verizon SIM Card **S**=Cellular, Factory Installed Sprint SIM Card **E**=Ethernet Networking

Stock Ordering Information

Product Family [1]	Light Engine	Voltage	Distribution	Options (Add as Suffix)
PRV=Prevail	**C15**=(1 LED) 7,100 Nominal Lumens **C25**=(2 LEDs) 13,100 Nominal Lumens **C40**=(2 LEDs) 17,100 Nominal Lumens **C60**=(2 LEDs) 25,000 Nominal Lumens	**UNV**=Universal (120-277V) **347**=347V [2]	**T3**=Type III **T4**=Type IV	**MSP/DIM-L30**=Integrated Sensor for Dimming Operation, Maximum 30' Mounting Height [3]
PRV-XL=Prevail XL	**C75**=(4 LED) 26,100 Nominal Lumens **C100**=(4 LED) 31,000 Nominal Lumens **C125**=(4 LED) 36,000 Nominal Lumens **C150**=(6 LED) 41,100 Nominal Lumens **C175**=(6 LED) 48,600 Nominal Lumens			

NOTES:

1. All stock configurations are standard 4000K/70CRI, bronze finish, and include the standard versatile mounting arm.
2. Only available in PRV3 configurations C15, C25, C40 or C60.

COOPER Lighting Solutions

LIGHT FIXTURES 'A' , 'B' , 'C' DETAIL

2

G&G INDUSTRIAL LIGHTING
T 800.285.6780 E sales@ggled.net
www.ggled.net

Date

Project

c UL us LISTED DIRECT AC DRIVERLESS DLC PREMIUM

GPX DRIVERLESS LINEAR



DRIVERLESS AC LED LUMINAIRE

Product Features

Maintenance-Free Driverless Design
Connects directly to AC line voltage without an LED driver or electrolytic capacitors, for extreme reliability and lifetime. Requires zero maintenance.

Easy to Install Quick-Connect Cabling
Convenient push-and-click connectors and cabling make GPX Series fixtures easy to install and daisy chain.

Coextruded Copolyester/Aluminum Housing
Our patented process combines copolyester and aluminum together, with no seals or gaskets. The result is a single piece enclosure with excellent heatsinking characteristics for long lifetime.

Superior Chemical & UV Resistance
Seamless polymeric outer shell provides IP67 ingress protection and is specialized for superior chemical resistance. An additional protective coating is available which integrates a UV inhibitor and UV blocker for outdoor applications.

Performance Summary

Delivered Light Output: Up to 8,000 Lumens
Efficacy: 130 LPW
CRI: Typical 85 CRI
CCT: 5000K & 4000K
Lifetime: Designed to last 100,000 Hours at 25°C
Warranty: 5 Years (See ggled.net for Terms)
Mounting: Ceiling or Wall
Dimensions: Length Varies, Width 1.25" x Height 1.75"
Protection Class: IP67
Dimming: Yes, TRIAC Dimmable
Voltage: 120 VAC or 277 VAC Input
Maximum Run Length: Refer to the Table on Page 2
Ambient Temperature: -40°C to 55°C

Ordering Information

Product	Length	Lumen Output	Color Temp.	Lens Diffusion	UV Protection	Through Wired	Voltage
GPX							
	2 2-Foot **4** 4-Foot **6** 6-Foot **8** 8-Foot	**SO** Standard Output 600 Lumens/Ft **HO*** High Output 1000 Lumens/Ft *Available in 4' & 8' only	**50K** (standard) 5000 Kelvin **40K** 4000 Kelvin	**Blank** (standard) Chemical Resistant Clear Lens **GC** (gore cover) Chemical Resistant Lens with Added Diffusion Sheet	**Blank** (standard) No Coating, Rated for Indoor Use **UVO** Outdoor-Rated with UV-Blocking Coating	**Blank** (standard) Connectors on Input & Output for ability to Daisy Chain Fixtures **SE** (Single-Ended) Connector on Input Only, No Daisy Chain, for Standalone Install	**120V** 120 VAC Input **277V** 277 VAC Input

Power & Connection Accessories

Cable	Type	Length	Wire
*No Jumper Cable Required on End-to-End Connection			
GPX-JMP-1	Jumper	1ft	18 AWG SJTW
GPX-JMP-2	Jumper	2ft	18 AWG SJTW
GPX-JMP-4	Jumper	4ft	18 AWG SJTW
GPX-JMP-8	Jumper	8ft	18 AWG SJTW
GPX-LDR-10	Leader Cable	10ft	18 AWG SJTW
GPX-LDR-25	Leader Cable	25ft	18 AWG SJTW

Mounting Hardware	Description
GPX-MNT-NM	Non-Metallic Quick Latch
GPX-MNT-SS	Stainless Steel Bolt Latch

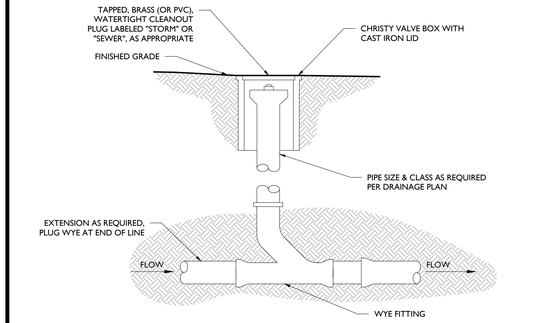
*For serviceability and expansion/contraction considerations G&G limits the number of luminaires connected end-to-end (without a jumper cable) to a maximum of 4.

Rev Date 20 0804

STRONG. SIMPLE. COMPACT.

LIGHT FIXTURE 'D' DETAIL

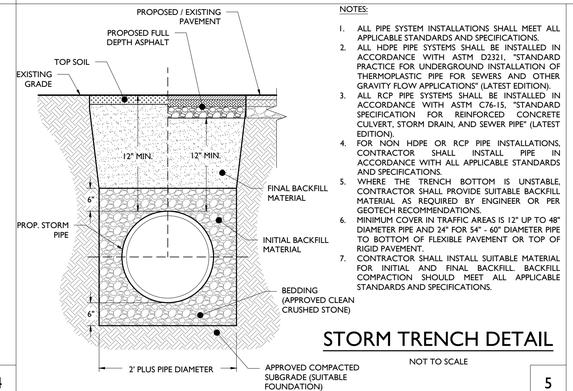
3



SOFTSCAPE CLEAN-OUT

NOT TO SCALE

4



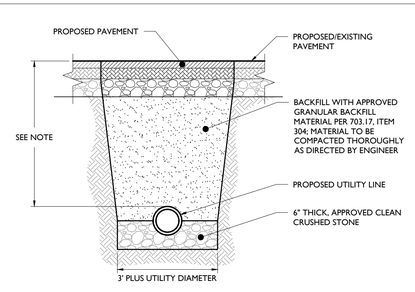
NOTES:

1. ALL PIPE SYSTEM INSTALLATIONS SHALL MEET ALL APPLICABLE STANDARDS AND SPECIFICATIONS.
2. ALL HDPE PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS" (LATEST EDITION).
3. ALL RCP PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM C76-15, "STANDARD SPECIFICATION FOR REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE" (LATEST EDITION).
4. FOR NON HDPE OR RCP PIPE INSTALLATIONS, CONTRACTOR SHALL INSTALL PIPE IN ACCORDANCE WITH ALL APPLICABLE STANDARDS AND SPECIFICATIONS.
5. WHERE THE TRENCH BOTTOM IS UNSTABLE, CONTRACTOR SHALL PROVIDE SUITABLE BACKFILL MATERIAL AS REQUIRED BY ENGINEER OR PER GEOTECH RECOMMENDATIONS.
6. MINIMUM COVER IN TRAFFIC AREAS IS 12" UP TO 48" DIAMETER PIPE AND 24" FOR 54" - 60" DIAMETER PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TOP OF RIGID PAVEMENT.
7. CONTRACTOR SHALL INSTALL SUITABLE MATERIAL FOR INITIAL AND FINAL BACKFILL. BACKFILL COMPACTION SHOULD MEET ALL APPLICABLE STANDARDS AND SPECIFICATIONS.

STORM TRENCH DETAIL

NOT TO SCALE

5



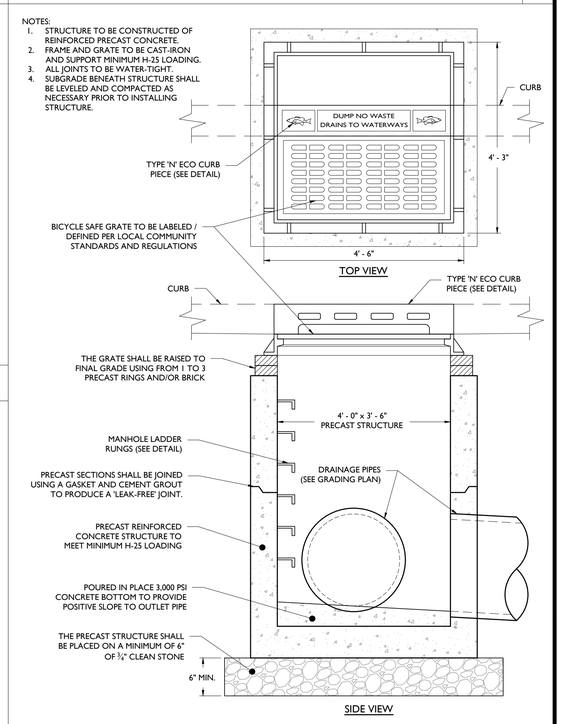
UTILITY TRENCH DETAIL (PAVED AREA)

NOT TO SCALE

NOTE:

MINIMUM PIPE COVER SHALL BE AS FOLLOW:
- WATER - 48" MIN,
- STORM DRAIN - SEE DRAINAGE PLAN

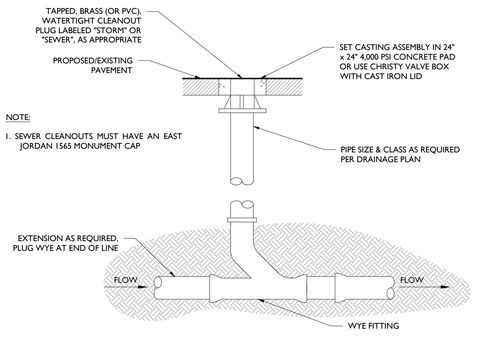
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TYPE 'B' STORM INLET DETAIL

NOT TO SCALE

10



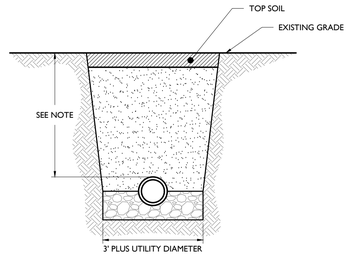
NOTE:

1. SEWER CLEANOUTS MUST HAVE AN EAST JORDAN 1565 MONUMENT CAP

HARDSCAPE CLEAN-OUT

NOT TO SCALE

7



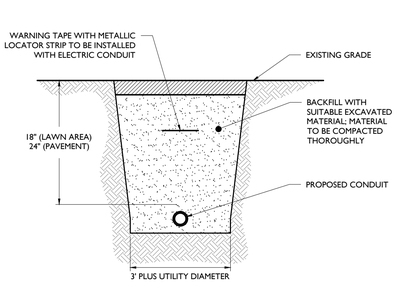
UTILITY TRENCH DETAIL (LANDSCAPED AREA)

NOT TO SCALE

NOTE:

MINIMUM PIPE COVER SHALL BE AS FOLLOW:
- WATER - 48" MIN,
- STORM DRAIN - SEE DRAINAGE PLAN

8



ELECTRICAL CONDUIT TRENCH DETAIL

NOT TO SCALE

9

ISSUE	DATE	BY	DESCRIPTION
6	03/20/2024	JA	FOR EIS PREPARATION
5	05/23/2023	JA	FOR MUNICIPAL & COUNTY RESUBMISSIONS
4	03/23/2023	JA	FOR MUNICIPAL & COUNTY RESUBMISSIONS
3	03/01/2023	JA	FOR MUNICIPAL & COUNTY RESUBMISSIONS
2	01/20/2023	JLO	PER AXIS KICKOFF REVISIONS
1	01/06/2023	AWVA	FOR CLIENT REVIEW

NOT APPROVED FOR CONSTRUCTION

STONEFIELD engineering & design
Rutherford, NJ · New York, NY · Boston, MA
Princeton, NJ · Tampa, FL · Detroit, MI
www.stonefieldeng.com
Headquarters: 92 Park Avenue, Rutherford, NJ 07070
Phone 201.340.4468 · Fax 201.340.4472

SITE PLAN SET

HUTTON ST 21, LLC

PROPOSED CAR WASH

SECTION 1 82.05, BLOCK 1, LOT 9.2,
5363 SOUTHWESTERN BOULEVARD
TOWN OF HAMBURG
ERIE COUNTY, NEW YORK

JEFFREY A. MARTELL, P.E.
NEW YORK LICENSE No. 86502
LICENSED PROFESSIONAL ENGINEER

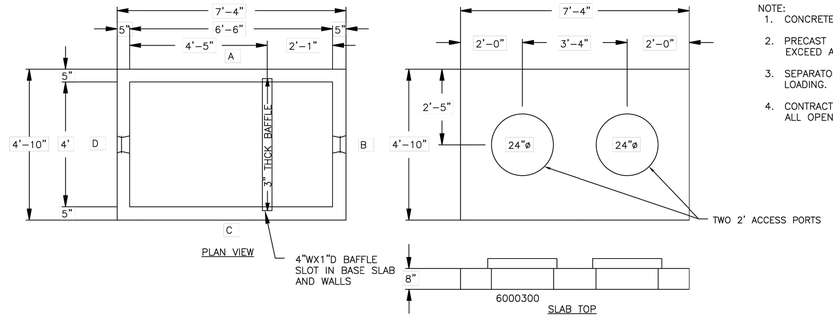
STONEFIELD engineering & design

SCALE: N.T.S. PROJECT ID: RUT-220250

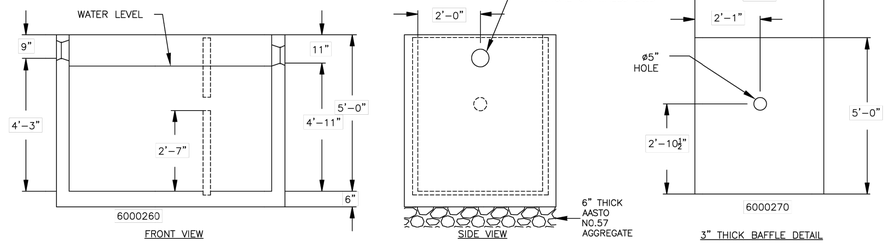
TITLE: CONSTRUCTION DETAILS

DRAWING: C-12

Z:\RUT\PROJ\RUT-220250\RUT-220250 HUTTON GROUP - 5363 SOUTHWESTERN BOULEVARD, HAMBURG, NY\CAD\PLOTTING\10-SHEETS.DWG

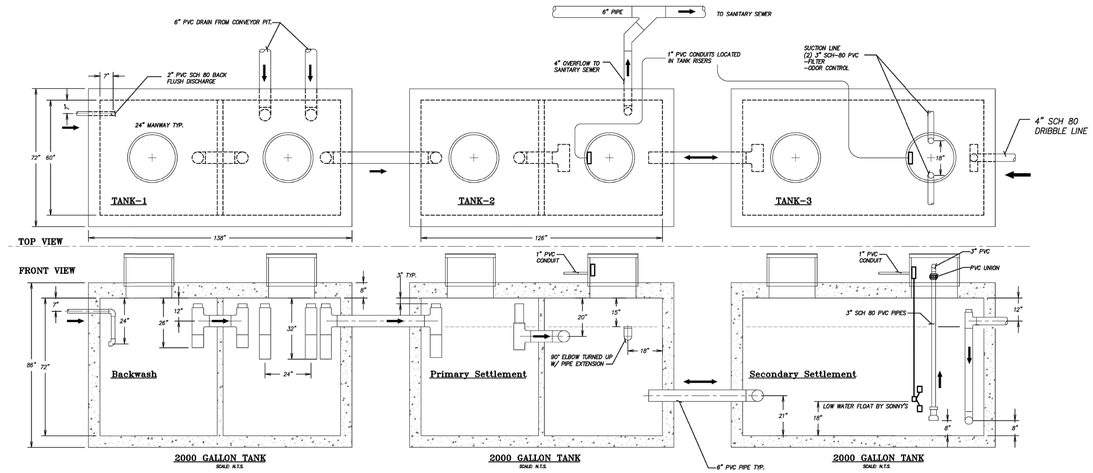


NOTE:
1. CONCRETE 28 DAY COMP. STRENGTH = 4,000 PSI.
2. PRECAST STRUCTURES ARE PRODUCED TO MEET OR EXCEED ASTM SPECIFICATIONS.
3. SEPARATOR TO BE CONSTRUCTED TO SUPPORT H20 LOADING.
4. CONTRACTOR TO VERIFY SIZE AND LOCATION OF ALL OPENINGS.



6 SD-1.1 OIL/WATER SEPARATOR
NOT TO SCALE

1



NOTE:
1. Pressure Test All Suction Lines Upon Installation @ 10-15 PSI max.
2. Keep pressure on Suction Lines for the entire DURATION of construction.
3. Pressure should NOT drop more than 2 PSI.
4. Watch for problems when excavating driveways.
5. If reclaim tanks are located more than 60 feet away from reclaim unit, then increase suction line to 3" sch 80 PVC.
6. Placement of suction lines is critical
7. Do NOT put screens on the suction lines
8. ANY QUESTIONS CONTACT SONNY'S.

CAR WASH RECLAIM SYSTEM STANDARD Sobrite RECLAIM 3 TANK

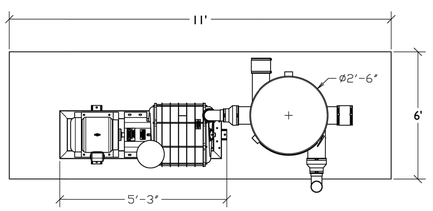
(SEE RECLAIM SHEET FOR DETAIL)

NOT FOR CONSTRUCTION UNTIL APPROVED BELOW.

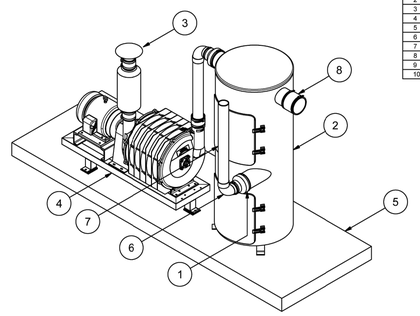
APPROVED BY. _____ DATE _____

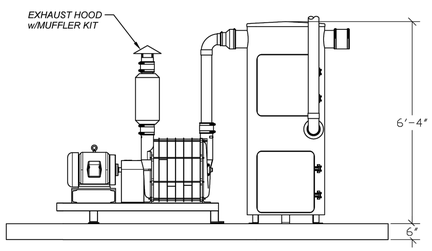
NOTE:
1. ALL UNDERGROUND TANKS AND PIPING BY CONTRACTOR
2. PIPE LOCATIONS SHOULD BE USED FOR ANY TANK
3. ALL INTERNAL TANK PLUMBING TO BE 6" sch 40 PVC UNLESS NOTED OTHERWISE
4. ALL TANK BOTTOMS SHOULD BE LEVEL
5. THIS DRAWING IS TO SHOW TANK HOLDING CAPACITY AND PIPING RELATIONSHIPS ONLY. THEY ARE NOT INTENDED TO ADDRESS TANK STRUCTURE ENGINEERING.

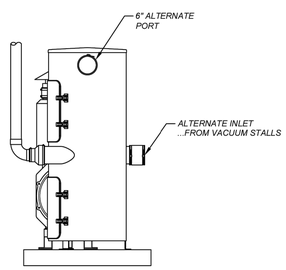
2

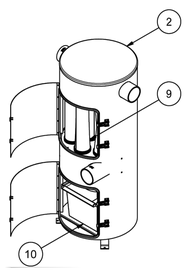


PARTS LIST	
ITEM	DESCRIPTION
1	6" x 4" Reducer Coupling
2	Vacuum Separator Universal w/10 Bags
3	Vacuum, Turbine 4" Kit
4	Vacuum, 25hp Producer w/Tank
5	Concrete Pad for Vacuum Producers
6	4" Schedule 40 PVC 90deg Elbow
7	4" Schedule 40 PVC Pipe
8	6" Coupler
9	Vacuum Separator Filter Bag 6inD x 32inL
10	Vacuum Separator Debris Cleanout Tank







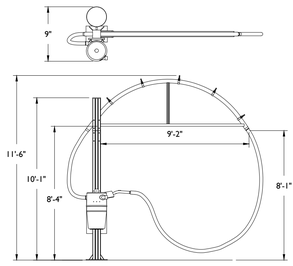


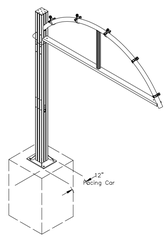
VACUUM PRODUCER DETAIL

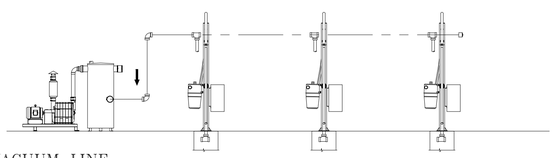
NOT TO SCALE

3

PARTS LIST	
ITEM	DESCRIPTION
1	Vacuum Post 6" x 6" with Canopy Boom
2	Vacuum Hose 2"
3	Vacuum Hose 1.5"
4	Express Claw Crevice Tool
5	Express Holster with Bracket
6	Garbage Receptcle
7	Cyclone Trash Collector
8	Vacuum Boom Pipe Mount





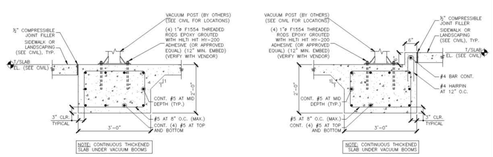


VACUUM LINE

NOTE: CONNECTIONS SHOWN IN THE ELEVATION VIEW ARE SCHEMATIC ONLY. REFER TO PLAN VIEWS FOR PLACEMENT.

VACUUM BOOM DETAIL

NOT TO SCALE



VACUUM BOOM FOUNDATION DETAIL

NOT TO SCALE

4

Z:\RUT\HBG\ORD\PLOT\2023\RUT-220250-HUTTON GROUP - 3343 SOUTHWESTERN BOULEVARD, HAMBURG, NY\CAD\DWG\PDF\NAV-D.DWG PLOTTED.DWG

ISSUE	DATE	BY	DESCRIPTION
6	03/20/2024	JA	FOR EIS PREPARATION
5	05/23/2023	JA	FOR MUNICIPAL & COUNTY RESUBMISSIONS
4	03/23/2023	JA	FOR MUNICIPAL & COUNTY RESUBMISSIONS
3	03/01/2023	JA	FOR MUNICIPAL & COUNTY RESUBMISSIONS
2	01/20/2023	JLO	PER AXIS KICKOFF REVISIONS
1	01/06/2023	AWVA	FOR CLIENT REVIEW

NOT APPROVED FOR CONSTRUCTION

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Phone 201.340.4468 · Fax 201.340.4472

SITE PLAN SET

HUTTON ST 21, LLC

PROPOSED CAR WASH

SECTION I 82.05, BLOCK 1, LOT 9.2,
3343 SOUTHWESTERN BOULEVARD
TOWN OF HAMBURG
ERIE COUNTY, NEW YORK

JEFFREY A. MARTELL, P.E.
NEW YORK LICENSE No. 86502
LICENSED PROFESSIONAL ENGINEER

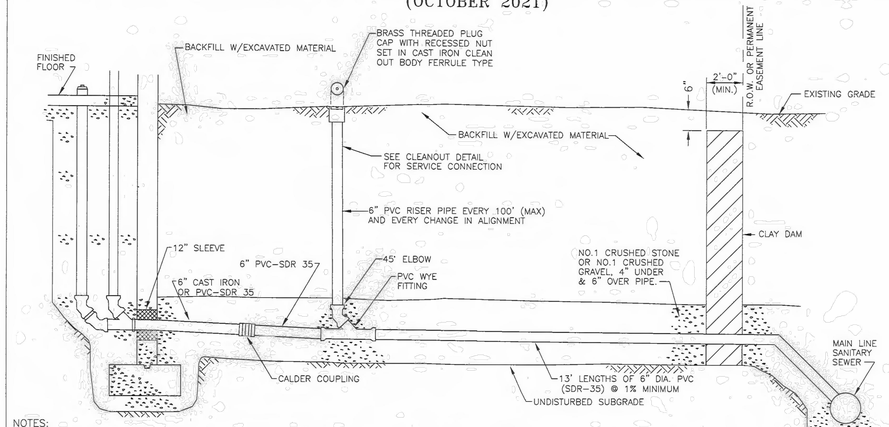
STONEFIELD engineering & design

SCALE: N.T.S. | PROJECT ID: RUT-220250

TITLE: CONSTRUCTION DETAILS

DRAWING: C-13

TYPICAL COMMERCIAL SERVICE WITHOUT BASEMENT DETAIL (NEW BUILDS)
(OCTOBER 2021)



NOTES:

1. NO INSPECTION WILL BE PROVIDED WITHOUT A PERMIT. INSPECTIONS REQUIRE 48 HR. ADVANCE NOTICE FOR SCHEDULING.
2. ALL WORK MUST BE INSPECTED BY A COUNTY INSPECTOR.
3. PVC PIPE MATERIAL SHALL BE MANUFACTURED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST ASTM SPECIFICATION D-3033/D-3034. CAST IRON PIPE MATERIAL SHALL BE EXTRA HEAVY CAST IRON MEETING THE REQUIREMENTS OF ASTM A74-42.
4. CLEANOUTS MUST BE INSTALLED IN LAWN AREAS, NOT IN SIDEWALK OR DRIVEWAY AREAS, PREFERABLY BETWEEN THE CURB OR EDGE OF PAVEMENT AND THE SIDEWALK.
5. SELECT BACKFILL REQUIRED UNDER PAVED AREAS.
6. CONCRETE ENCASEMENT IF COVER DEPTH IS LESS THAN 4'-0" UNDER PAVED AREAS.
7. MIN. DEPTH OF COVER 3'-0".
8. CLEANOUT MEASUREMENTS SHALL START FROM CENTERLINE OF MAIN SEWER FOR NEARSIDE LATERALS AND FROM THE 6" CLEANOUT FOR FAR SIDE CONNECTIONS. A CLEANOUT MAY BE REQUIRED FOR ANY ABRUPT CHANGES IN LATERAL DIRECTION FLOW.
9. A 6" CLEANOUT IS REQUIRED AT R.O.W. WHENEVER THE MAIN SEWER IS UNDER THE PAVEMENT LIMITS OR AT FAR SIDE OF PAVEMENT.
10. ANY SEWER LAID THROUGH OR OVER A SEPTIC TANK MUST BE CAST IRON. (SEPTIC TANK MUST BE FILLED WITH BANK RUN GRAVEL.)
11. ANY EXCAVATION TO BE LEFT OPEN OVERNIGHT SHALL BE COMPLETELY ENCLOSED IN FENCING, OR WHERE NECESSARY, COVERED WITH STEEL PLATES.
12. DOWN SPOUTS, SUMP PUMPS, AND FOOTING DRAINS ARE NOT PERMITTED TO BE CONNECTED TO THE LATERAL.
13. NO CONNECTION SHALL BE MADE UNTIL BUILDING ROOF IS ERECTED.

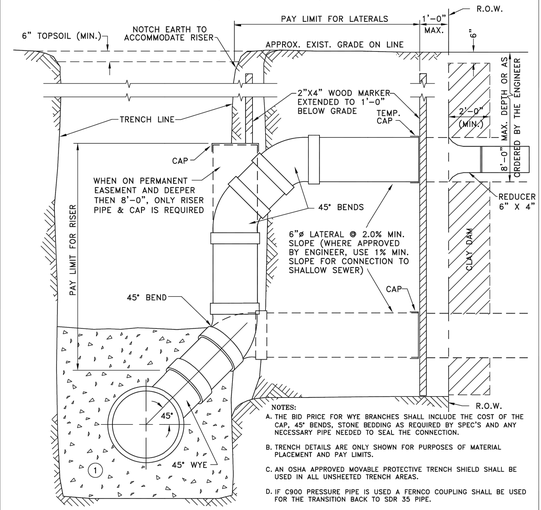
ERIE COUNTY
DEPT. OF ENVIRONMENT & PLANNING
DIVISION OF SEWERAGE MANAGEMENT

Rev. 6/05	ADDED NOTE 18 & CLASS 52 TYPE CI PIPE	
Rev. 1/07	REMOVED OLD NOTES 2 AND 18. ADDED 1% MIN. TO SERVICE PIPE DETAIL	
Rev. 11/08	ADDED SLEEVE AND PVC-SDR 35	
Rev. 1/12	REVISED 6" CAST IRON TRAP NOTE	
Rev. 1/18	ADDED (A) NOTE TO EXISTING VENT & TRAP	
Rev. 10/21	REMOVED VENT, RISER, AND TRAP ASSEMBLY	
File:	d-22	Date: 3/1/91

STD. DETAIL 22

1

RISER DETAIL – SDR35
(MAIN LINE LATERAL CONNECTION)
(JANUARY 2012)



NOTES:
A. THE BID PRICE FOR WYE BRANCHES SHALL INCLUDE THE COST OF THE CAP, 45° BENDS, STONE BEDDING AS REQUIRED BY SPEC'S AND ANY NECESSARY PIPE NEEDED TO SEAL THE CONNECTION.
B. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND PAY LIMITS.
C. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.
D. IF C900 PRESSURE PIPE IS USED A FERNCO COUPLING SHALL BE USED FOR THE TRANSITION BACK TO SDR 35 PIPE.

MATERIALS
PIPE BEDDING MATERIAL (NYSDOT LATEST EDITION)

(1) NO. 1 CRUSHED STONE WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE CRUSHED STONE SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER. NO SLAG WILL BE ALLOWED.

ERIE COUNTY
DEPT. OF ENVIRONMENT & PLANNING
DIVISION OF SEWERAGE MANAGEMENT

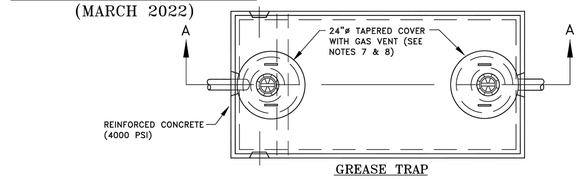
Rev. 2 1/97	ADDED 1/8 BELL & SPIGOT LONG SWEEP BEND	
Rev. 3 12/01	ADDED NOTE D REGARDING LOCATION OF VENTS AND CLEAN OUTS	
Rev. 4 5/02	CHANGED LONG SWEEP TO NORMAL 45° ADDED CAPS & CORRECTED PAY LIMITS	
File:	d-27	Date: 3/1/91

STD.DETAIL 27

2

SEDIMENT TRAP / GREASE TRAP DETAIL
(MARCH 2022)

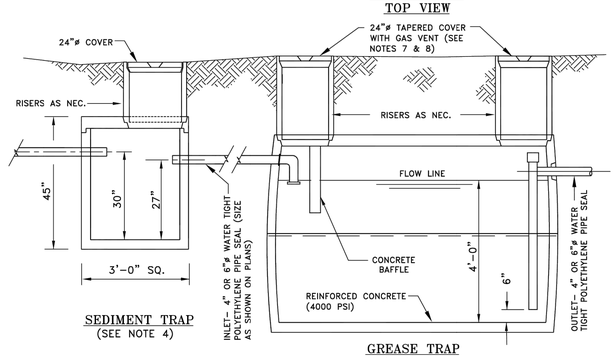




GREASE TRAP
TOP VIEW

NOTES

1) THE UNITS SHALL BE REINFORCED TO WITHSTAND H-20 LOADING
2) A GREASE TRAP IS REQUIRED ON ALL DISCHARGES FROM A RESTAURANT OR OTHER TYPES OF COMMERCIAL BUILDINGS WHEN FOOD IS SERVED.
3) FOR PROPER SIZING OF GREASE TRAP, THE NYSDEC PUBLICATION "DESIGN STANDARDS FOR WASTE WATER TREATMENT WORKS" – "1988 EDITION" SHOULD BE REFERENCED. GREASE TRAP SIZING ASSUMPTION CALULATIONS ARE SUBJECT TO APPROVAL. THE MINIMUM SIZE GREASE TRAP SHALL BE 750 GALLONS.
4) FOR GAS STATIONS AND FACILITIES WITH FLOOR DRAINS TIED INTO THE SANITARY SEWER, BEFORE THE GREASE TRAP, A SEDIMENTATION TANK (2'X2' OR 3'X3' D.I.) WITH 24" SUMP AND GRATE SHALL BE REQUIRED. THE SEDIMENT TANK SHALL BE AS CLOSE AS POSSIBLE TO THE DISCHARGE POINT OF THE FLOOR DRAIN.
5) GREASE TRAP SHALL CONFORM TO 19 NYCCR PART 1229
6) A 10"X14" SIGN SHOWN ABOVE SHALL BE PERMANENTLY MOUNTED IN A CONSPICUOUS LOCATION IN THE VICINITY OF THE GREASE TRAP.
7) COVERS SHALL RESTRICT UNAUTHORIZED ACCESS WITH ONE OF THE FOLLOWING:
   A) CAN BE REMOVED ONLY WITH TOOL
   B) MINIMUM WEIGHT OF 66 POUNDS
   C) HAVE A KEYED OR COMBINATION LOCKING DEVICE
8) ITEM 7 WILL NOT BE REQUIRED IF GREASE TRAP SITE HAS A PERMANENT FENCE OR SOLID BARRIER DESIGNED TO PREVENT CLIMBING THAT MEETS THE FOLLOWING CRITERIA:
   A) NOT LESS THAN 48" TALL
   B) HAS SELF LATCHING GATE
   C) LATCH IS 54" HIGH.



SEDIMENT TRAP
(SEE NOTE 4)

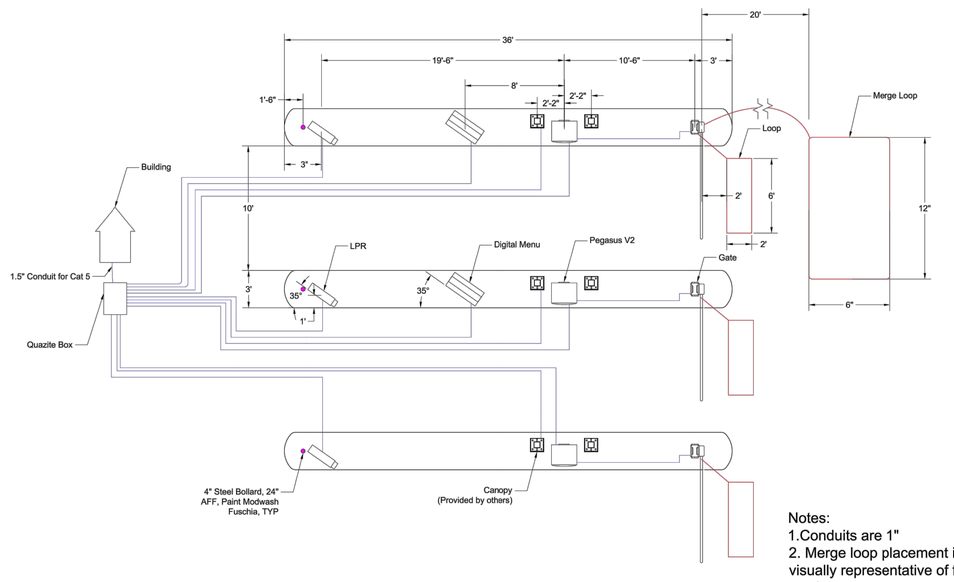
GREASE TRAP
SECTION A-A

ERIE COUNTY
DEPT. OF ENVIRONMENT & PLANNING
DIVISION OF SEWERAGE MANAGEMENT

Rev. 1	8/23/91	CHANGED INLET AND OUTLET DIA TO 6"
Rev. 2	12/9/98	MODIFIED NOTES 2 & 3
Rev. 3	12/01	ADDED GRIT TRAP BEFORE GREASE TRAP, NOTES 4 & 5
Rev. 4	5/03	REMOVED NOTE 5.
Rev. 5	6/05	ADDED TO NOTE 4
Rev. 6	3/31/22	ADDED PART 1229
File:	d-29	Date: 3/1/91

STD. DETAIL 29

3



PAY STATION DETAIL
NOT TO SCALE

Notes:
1.Conduits are 1"
2. Merge loop placement is not visually representative of final result
3. Digital Menu and Pegasus are homerun back to electrical panel

4

ISSUE	DATE	BY	DESCRIPTION
6	03/20/2024	JA	FOR EIS PREPARATION
5	05/23/2023	JA	FOR MUNICIPAL & COUNTY RESUBMISSIONS
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3	03/01/2023	JA	FOR MUNICIPAL & COUNTY RESUBMISSIONS
2	01/20/2023	JLO	PER AXIS KICKOFF REVISIONS
1	01/06/2023	AWVA	FOR CLIENT REVIEW

NOT APPROVED FOR CONSTRUCTION

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Princeton, NJ · Tampa, FL · Detroit, MI
www.stonefieldeng.com
Headquarters: 92 Park Avenue, Rutherford, NJ 07070
Phone 201.340.4468 · Fax 201.340.4472

SITE PLAN SET

HUTTON ST 21, LLC

PROPOSED CAR WASH

SECTION 182.05, BLOCK 1, LOT 9.2
5561 SOUTHWESTERN BOULEVARD
TOWN OF HAMBURG
ERIE COUNTY, NEW YORK

Mod Wash

JEFFREY A. MARTELL, P.E.
NEW YORK LICENSE No. 86502
LICENSED PROFESSIONAL ENGINEER

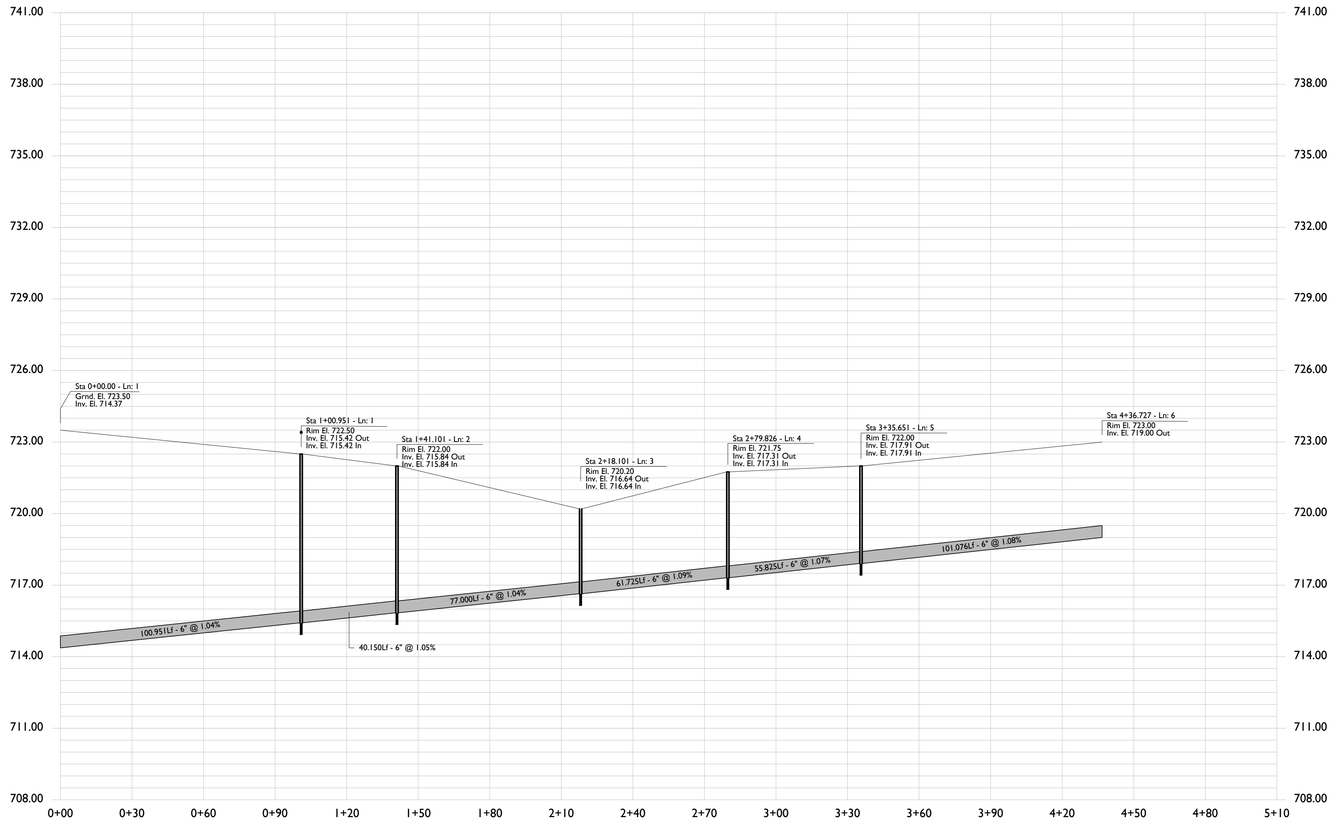
STONEFIELD engineering & design

SCALE: N.T.S. | PROJECT ID: RUT-220250

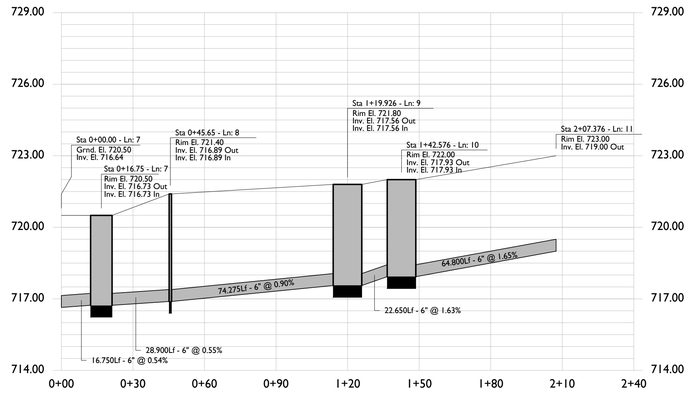
TITLE: CONSTRUCTION DETAILS

DRAWING: C-14

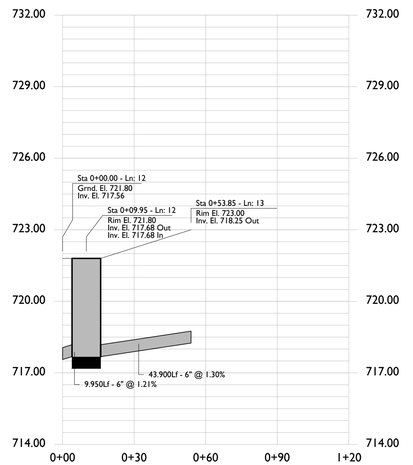
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SANITARY SEWER PROFILE



SANITARY SEWER PROFILE



SANITARY SEWER PROFILE

ISSUE	DATE	BY	DESCRIPTION
6	03/20/2024	JA	FOR EIS PREPARATION
5	05/23/2023	JA	FOR MUNICIPAL & COUNTY RESUBMISSIONS
4	03/23/2023	JA	FOR MUNICIPAL & COUNTY RESUBMISSIONS
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2	01/20/2023	JLO	PER AXIS KICKOFF REVISIONS
1	01/06/2023	AWVA	FOR CLIENT REVIEW

NOT APPROVED FOR CONSTRUCTION

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Phone 201.340.4468 · Fax 201.340.4472

SITE PLAN SET

HUTTON ST 21, LLC

PROPOSED CAR WASH

SECTION 130.05, BLOCK 1, LOT 9.2,
5565 SOUTHWESTERN BOULEVARD
TOWN OF HAMBURG
ERIE COUNTY, NEW YORK

JEFFREY A. MARTELL, P.E.
NEW YORK LICENSE No. 86502
LICENSED PROFESSIONAL ENGINEER

STONEFIELD engineering & design

SCALE: AS SHOWN | PROJECT ID: RUT-220250

TITLE: SANITARY PROFILES

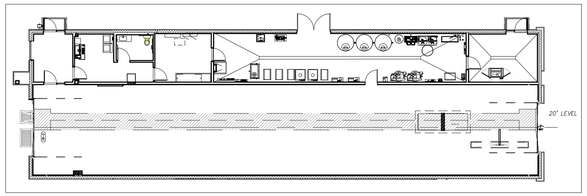
DRAWING: C-15

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MODWASH EXPRESS CAR WASH

5363 SOUTHWESTERN BLVD.
HAMBURG, NEW YORK
ERIE COUNTY

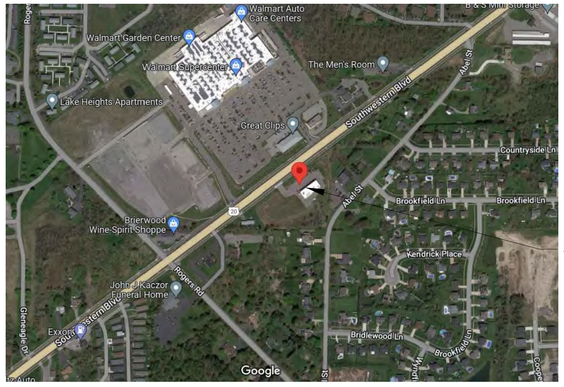
REVISION B PLANS, 05/17/2023



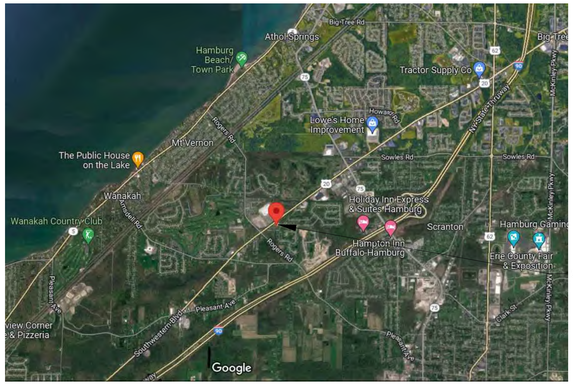
KEY PLAN

ALL MODWASH PROTOTYPE BULLETINS THROUGH BULLETIN #39, PLUS BULLETINS 41 AND 42, HAVE BEEN INCORPORATED INTO THIS SET OF PLANS.

LOCATION MAP



VICINITY MAP



JURISDICTION

THE FACILITY IS LOCATED AT:
5363 SOUTHWESTERN BLVD.
HAMBURG, NY

CODES/STANDARDS & CLASSIFICATIONS

BUILDING CODE EDITION:	2020 NYS BUILDING CODE 7th EDITION
MECHANICAL CODE EDITION:	2020 MECHANICAL CODE OF NYS
ELECTRICAL CODE EDITION:	2017 NATIONAL ELECTRICAL CODE OF NYS
PLUMBING CODE EDITION:	2020 PLUMBING CODE OF NYS
ENERGY CODE EDITION:	2020 ENERGY CONSERVATION CODE OF NYS 2020 PART1,2,3 NYSTRETCH ENERGY CODE 2020 FUEL GAS CODE OF NYS
FIRE/LIFE SAFETY CODE EDITION:	2020 FIRE CODE OF NYS
ACCESSIBILITY CODE EDITION:	2009 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES OF NEW YORK STATE

PROJECT INFORMATION

NAME OF DEVELOPMENT:	MODWASH EXPRESS CAR WASH
PROJECT LOCATION:	5363 SOUTHWESTERN BLVD. HAMBURG, NY
NAME OF OWNER:	HUTTON, LLC
ADDRESS:	5363 SOUTHWESTERN BLVD. HAMBURG, NY
BUILDING AREA:	4,526 SQUARE FEET
NUMBER OF BUILDINGS:	ONE
NUMBER OF STORIES:	ONE
OCCUPANCY CLASSIFICATION:	(B) BUSINESS
CALCULATED LOAD FOR WATER CLOSETS:	1 UNISEX, REFER TO NOTE 5
CALCULATED LOAD FOR LAVATORIES:	1 UNISEX, REFER TO NOTE 5
OCCUPANCY LOAD:	ELECTRICAL AND MECHANICAL ROOM: 1019 SQ. FT., 1 PER 300 = 4 OCC. UNISEX RESTROOM 79 SQ. FT. = 1 OCC. OFFICE / BREAK ROOM 330 SQ. FT., 1 PER 150 = 3 OCC. TUNNEL / WASHBAY: 2923 SQ. FT., 1 PER 300 = 10 OCC. MAT CLEANER ROOM: 244 SQ. FT., 1 PER 150 = 2 OCC. TOTAL OCCUPANCY = 20
CONSTRUCTION TYPE:	5-B

DESIGNERS OF RECORD

ARCHITECT:

ALEX ADEKANMBI
AXIS INFRASTRUCTURE
70 MANSELL CT
SUITE 200
ROSWELL, GA 30076

678-395-4920
ALEXADEKANMBI@AXISCOMPANIES.COM

STRUCTURAL:

PATRICK KELLY
AXIS INFRASTRUCTURE
70 MANSELL CT
SUITE 200
ROSWELL, GA 30076

678-395-4920
PATRICKKELLY@AXISCOMPANIES.COM

ELECTRICAL, MECHANICAL & PLUMBING

MICHAEL ODUSELU
AXIS INFRASTRUCTURE
70 MANSELL CT
SUITE 200
ROSWELL, GA 30076

678-395-4920
MICHAELODUSELU@AXISCOMPANIES.COM

SHEET LIST

REVISIONS F	E	D	C	B	A	NUMBER	SHEET NAME
						GENERAL	
						G-001	COVER SHEET
						G-002	GENERAL NOTES
						LS-101	LIFE SAFETY PLAN, NOTES AND DETAILS
						ARCHITECTURAL	
						A-100	ARCHITECTURAL SITE PLAN
						A-101	OVERALL FLOOR PLAN
						A-102	DIMENSIONED FLOOR PLAN
						A-103	INTERIOR FINISH PLAN
						A-111	REFLECTED CEILING AND ROOF PLANS
						A-201	BUILDING ELEVATIONS
						A-202	BUILDING ELEVATIONS
						A-301	BUILDING SECTION
						A-302	BUILDING SECTION
						A-303	BUILDING SECTION
						A-304	BUILDING SECTION
						A-305	BUILDING SECTION
						A-306	BUILDING SECTION
						A-307	BUILDING SECTION
						A-400	ENLARGED PLAN DETAILS
						A-401	INTERIOR ELEVATIONS
						A-402	DUMPSTER DETAILS
						A-403	DUMPSTER ELEVATIONS
						A-601	DOOR SCHEDULE AND DETAILS
						A-602	WINDOW AND CASEWORK DETAILS
						A-701	ENLARGED DETAILS
						A-702	ENLARGED DETAILS
						A-703	ENLARGED DETAILS
						A-704	ENLARGED DETAILS
						STRUCTURAL	
						S1.0	FOUNDATION PLAN
						S1.1	FOUNDATION PLAN
						S1.2	DUMPSTER DETAILS
						S2.0	ROOF FRAMING PLAN
						S2.1	ROOF FRAMING PLAN
						S3.0	SECTIONS AND DETAILS
						S3.1	SECTIONS AND DETAILS
						S3.2	SECTIONS AND DETAILS
						S3.3	TRENCH ELEVATION
						S3.4	SECTIONS AND DETAILS
						S3.5	SECTIONS AND DETAILS
						S3.6	SECTIONS AND DETAILS
						S3.7	CANOPY DETAILS
						S3.8	LIGHT POLE BASE DETAILS
						S4.0	SECTIONS AND DETAILS
						MECHANICAL	
						M-101	HVAC FLOOR PLAN
						M-401	NOTES AND SCHEDULES
						PLUMBING	
						P-001	SITE PIPING PLAN
					●	P-101	SEWER FLOOR PLAN
						P-103	CHASEWAY FLOOR PLAN
					● ●	P-105	DOMESTIC WATER PLAN
					● ●	P-201	ISOMETRICS
					● ●	P-301	DETAILS AND SCHEDULES
						P-501	REFERENCE DETAILS
						P-502	REFERENCE DETAILS
						ELECTRICAL	
						E-001	SITE PLAN
						E-002	SITE PLAN
						E-003	LOW VOLTAGE CONDUIT PLAN
						E-101	ELECTRICAL NOTES
						E-102	POWER FLOOR PLAN
						E-103	LIGHTING PLAN
						E-104	ELECTRICAL CONDUIT PLAN
						E-201	ELECTRICAL SCHEDULES
						E-202	ELECTRICAL DETAILS
						E-501	REFERENCE DETAILS
						E-502	REFERENCE DETAILS
						E-503	REFERENCE DETAILS
						E-504	REFERENCE DETAILS
						E-505	REFERENCE DETAILS

REV	DATE	DESCRIPTION	BY

REGISTERED ARCHITECT ALEX ADEKANMBI 044557 STATE OF NEW YORK

05/19/2023
DATE

PREPARED BY:
ALEX ADEKANMBI, R.A.
2540 KINGSBROOKE LANE
DULUTH, GEORGIA 30097
PHONE: (404) 747-9419

PREPARED FOR:
SITE
Hutton
REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY: AC
REVIEWED BY: BK
PROJ. MGR.
DATE ISSUED: 02/10/23

TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION: 8" CMU BEARING WALLS
WOOD TRUSS ROOF FRAMING
E.F.I.S ON METAL STUDS @ DECORATIVE WALLS & FIN WALL
124' MODWASH PROTOTYPE W/120' CONVEYOR
FIN AT ENTRANCE
SITE ADDRESS: 5363 SOUTHWESTERN BOULEVARD
SITE ID: 200880
HAMBURG, NY

SHEET NO. G-001
COVER SHEET

GENERAL NOTES:

FIREWALL & FIRE BARRIER LABELING
CONTRACTOR TO INSTALL LABELING OR STENCILING AT 12'-0" ON CENTER ABOVE SUSPENDED OR FIXED CEILING SYSTEMS STATING:
"1 HOUR RATED FIRE OR SMOKE BARRIER PROTECT ALL OPENINGS." COORDINATE WITH LOCAL FIRE MARSHAL.

BEAMS AND COLUMNS THAT ARE PART OF A FIRE RATED WALL OR CEILING ASSEMBLY SHALL BE PROTECTED TO ACHIEVE THE FIRE RATING OF THE WALL OR CEILING ASSEMBLY PER NFPA 101 LIFE SAFETY CODE, CHAPTER 8.

OCCUPANCY SEPARATIONS SHALL BE PROVIDED PER THE APPLICABLE BUILDING CODE, THE LATEST ADOPTED EDITION.

FIRE EXTINGUISHERS REQUIRED!
PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED PER NFPA STANDARD NO. 10. ABC. LOCATION AND ARRANGEMENT OF THE FIRE EXTINGUISHERS WILL BE DETERMINED BY AN INSPECTOR OF THE FIRE MARSHAL'S OFFICE PRIOR TO FINAL INSPECTION.

FIRE EXTINGUISHERS IN BUSINESS & MERCANTILE OCCUPANCIES SHALL BE LOCATED PER REQUIREMENTS OF NFPA 10. THE SIZE SHALL BE A MINIMUM OF TWO (2) A 10 TW0 (2) ARE REQUIRED AND SHALL BE INSTALLED AT A MAXIMUM OF 48" ABOVE THE FINISHED FLOOR TO THE TOP OF THE HANDLE.

EGRESS LIGHTING
EMERGENCY EGRESS LIGHTING MUST PROVIDE A MINIMUM 1-FOOT CANDLE UNINTERRUPTED LIGHT SOURCE ALONG THE PATH OF EGRESS.

IF LESS THAN 3 SEPARATE LIGHTING CIRCUITS ARE PROVIDED, DEDICATED CIRCUITS FOR EMERGENCY LIGHTING ARE NOT PERMITTED. THEY SHALL BE CONNECTED TO THE LIGHTING CIRCUIT BREAKER THE AREA THEY SERVE. NFPA 70, CHAPTER 7, SECTION 700-12(E). DEDICATED CIRCUITS FOR EXIT LIGHTING ARE NOT PERMITTED. THEY SHALL BE CONNECTED TO THE LIGHTING CIRCUIT BREAKER IN THE AREA THEY SERVE. NFPA 70, CHAPTER 7.

FIREWALL OUTLETS
ELECTRICAL OUTLETS ARE NOT PERMITTED ADJACENT TO EACH OTHER IN RATED FIREWALL ASSEMBLIES. BOXES MUST BE SPACED A MINIMUM TWO FEET (2') LATERALLY APART OR PROVIDED WITH PUTTY PADS EQUIVALENT TO THE FIREWALL RATING. VERIFY WITH LOCAL FIRE MARSHAL.

LABELING
ALL UTILITY METERS, DISCONNECT SWITCHES, FRONT & REAR DOORS MUST BE MARKED WITH CONTRASTING LETTERS & NUMBERS TO INDICATE THE TENANT SPACE THEY SERVE.

EXIT LIGHTING
ALL EXIT LIGHTS & EMERGENCY LIGHTS SHALL HAVE A MINIMUM 90 MINUTE BATTERY LIFE.

SMOKE DETECTORS
ANY HVAC EQUIPMENT PRODUCING MORE THAN 2000 CFM AIR VOLUME MUST BE EQUIPPED WITH AN AUTOMATIC SMOKE DETECTOR WITHIN THE DUCTWORK THAT IS CAPABLE OF SHUTTING DOWN THE UNIT IN THE EVENT OF FIRE. SMOKE DETECTORS MUST BE WIRED TO A VISUAL STROBE, AS WELL AS PRODUCE AN AUDIBLE ALARM SO AS TO ALERT THE BUILDING OCCUPANTS OF FIRE OR SMOKE DETECTED.

ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE CODES. COORDINATION OF ALL DISCIPLINES IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. IF THE CONTRACTOR FINDS ANY DISCREPANCIES IN THE DOCUMENTS SUCH THAT MUST BE REPORTED IMMEDIATELY TO THE ARCHITECT. TYPICALLY DOCUMENTS INCLUDE A SPECIFICATION MANUAL. CONTRACTOR TO REVIEW THE SPECIFICATIONS FOR THE PROJECT.

CONTRACTOR MUST FIELD VERIFY ALL DIMENSIONS AT PROJECT. CONTRACTOR SHOULD NOT SCALE OFF OF DRAWINGS. CONTRACTOR NEEDS TO FIELD VERIFY EXISTING CONDITIONS TO CONFIRM DRAWINGS ARE ACCURATE. IF THE CONTRACTOR FINDS DISCREPANCIES BETWEEN FIELD CONDITIONS AND DOCUMENTS THE CONTRACTOR MUST IMMEDIATELY CONTACT THE ARCHITECT.

DOORS AND ACCESSIBILITY:
CONTRACTOR SHALL FOLLOW THE APPLICABLE BUILDING CODE
CONTRACTOR SHALL VERIFY ALL DIMENSIONS, CLEAR AREAS AND ANY A.D.A. REQUIREMENTS BEFORE BEGINNING WORK. CONTRACTOR MUST IMMEDIATELY CONTACT THE ARCHITECT IF DISCREPANCIES ARE FOUND.

DOORS SHALL MEET THE REQUIREMENTS OF THE NFPA 101 LIFE SAFETY CODE, CHAPTER 7.

THE FLOOR LEVEL SHALL BE THE SAME ON BOTH SIDES OF THE DOOR. THE ELEVATION SHALL BE MAINTAINED FOR A DISTANCE AT LEAST EQUAL TO THE WIDTH OF THE WIDEST LEAF OF THE DOORS. NFPA 101 LIFE SAFETY CODE, CHAPTER 7.

EXIT DOORS SHALL NOT BE SUBJECT TO THE USE OF A KEY OR REQUIRE SPECIAL KNOWLEDGE TO OPERATE, NFPA 101 LIFE SAFETY CODE, CHAPTER 7, LATEST ADOPTED EDITION.

DOORS/HARDWARE, HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. LEVER-OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. THESE TYPES SHALL BE SUPPLIED PER THE APPLICABLE BUILDING CODE. TO THE BEST OF OUR KNOWLEDGE
THIS INFORMATION ON THESE DRAWINGS COMPLY WITH ADA. CONTRACTOR MUST VERIFY BEFORE PURCHASE OF DEVICES.

TYPICAL MINIMUM MANEUVERING CLEARANCES ON THE PULL SIDE OF DOOR SHALL BE A MINIMUM OF 18". PER THE APPLICABLE BUILDING CODE

MINIMUM MANEUVERING CLEARANCES IN THE PUSH SIDE OF THE DOOR SHALL BE A MINIMUM OF 12" IF THE DOOR HAS A CLOSER AND A LATCH. PER THE APPLICABLE BUILDING CODE
THE TOPS OF ACCESSIBLE TABLES AND COUNTERS SHALL BE FROM 28 INCHES TO 34 INCHES ABOVE THE FINISHED FLOOR OR GROUND PER APPLICABLE BUILDING CODE

DRINKING FOUNTAINS:
IF APPLICABLE, WHERE ONLY ONE DRINKING FOUNTAIN IS PROVIDED ON A FLOOR, THERE SHALL BE A DRINKING FOUNTAIN WHICH IS ACCESSIBLE TO INDIVIDUALS WHO USE WHEEL CHAIRS IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE.
ONE ACCESSIBLE TO THOSE WHO HAVE DIFFICULTY BENDING OR STOOPING. THIS CAN BE ACCOMMODATED BY USE OF A "HI-LO" FOUNTAIN. ADVISORY 602.6 WATER FLOW. THE PURPOSE OF REQUIRING THE DRINKING FOUNTAIN SPOUT TO PRODUCE A FLOW OF WATER 4 INCHES (100 MM) HIGH MINIMUM IS SO THAT A CUP CAN BE INSERTED UNDER THE FLOW OF WATER TO PROVIDE A DRINK OF WATER FOR AN INDIVIDUAL WHO, BECAUSE OF A DISABILITY, WOULD OTHERWISE BE INCAPABLE OF USING THE DRINKING FOUNTAIN.

STORAGE RACKING, IF REQUIRED:
PROVIDE A STORAGE RACKING PLAN FOR ANY STORAGE AREA WHERE RACKING IS INSTALLED AND COMBUSTIBLE MATERIALS ARE TO BE STORED OVER 12 FEET. THE STORAGE RACKING PLAN SHALL BE SUBMITTED AND APPROVED BEFORE RACKS ARE INSTALLED. PER THE INTERNATIONAL FIRE CODE, LATEST ADOPTED EDITION. ADDITIONAL EXIT AND EMERGENCY LIGHTING MY BE REQUIRED UPON THE INSTALLATION OF STORAGE RACKS. THE FOLLOWING INFORMATION IS REQUIRED TO OBTAIN A RACKING PERMIT (A) A COMMODITY AFFIDAVIT ON COMPANY LETTERHEAD DESCRIBING THE COMMODITY THAT IS BEING STORED. PROVIDE INFORMATION ON PLASTICS AND HAZARDOUS MATERIALS (SEE ATTACHED SHEET TO DETERMINE THE COMMODITY CLASS) (B) SCALED FLOOR PLANS OF THE BUILDING HIGHLIGHTING THE DESIGNATED STORAGE AREA AND LABEL ALL AREAS AS TO THEIR USE (C) ELEVATIONS OF THE RACKS WITH THE STORAGE HEIGHT DIMENSIONS. NOTE: FOUR FEET WILL AUTOMATICALLY BE ADDED TO THE TOP SHELF TO DETERMINE STORAGE HEIGHT (D) INFORMATION ON HOW PRODUCT IS STORED (I.E. WOOD CARTONS, PLASTIC PALLETS, SHELVES, WIRE MESH.) (E) INFORMATION ON HOW PRODUCT IS PACKED (I.E. BOXES, CARTONS, CONTAINERS). ARE PALLET LOADS SHRINK WRAPPED? (F) IF THE BUILDING HAS A SPRINKLER SYSTEM, PROVIDE THE DENSITY.

STREET AND TENANT NUMBERS:
THE STREET NUMBERS MUST BE VISIBLE FROM THE STREET THAT PROVIDES DRIVEWAY ACCESS TO THE PROPERTY AND PLACES ON A CONTRASTING BACKGROUND THAT PROVIDES 24 HOUR VISIBILITY. THE STREET NUMBERS MUST ALSO MEET ONE OF THE FOLLOWING SIZE REQUIREMENTS (1) IF THE STREET NUMBER IS PLACED WITHIN 15 FEET OF THE CURB OR EDGE OF PAVEMENT OF THE STREET, THE STREET NUMBER SHALL BE POSTED IN FIGURES AT LEAST 4 INCHES IN HEIGHT. (2) IF THE STREET NUMBER IS PLACED MORE THAN 15 FEET FROM THE CURB OR EDGE OF PAVEMENT OF THE STREET, THE STREET NUMBER SHALL BE POSTED IN FIGURES AT LEAST 6 INCHES IN HEIGHT. INTERNATIONAL FIRE CODE, LATEST ADOPTED EDITION.

A SIGN CLEARLY STATING THAT SMOKING IS PROHIBITED SHALL BE CONSPICUOUSLY POSTED BY THE BUILDING OWNER, AGENT, OPERATOR, PERSON IN CHARGE OR PROPRIETOR AT EACH ENTRANCE OR IN A POSITION CLEARLY VISIBLE UPON ENTRY INTO THE BUILDING IN ACCORDANCE WITH CODE REQUIREMENTS. ACCEPTABLE SIGNS SHALL DISPLAY EITHER "NO SMOKING" OR THE INTERNATIONAL "NO SMOKING" SYMBOL (CONSISTING OF A PICTORIAL REPRESENTATION OF A BURNING CIGARETTE ENCLOSED IN A RED CIRCLE WITH A RED BAR ACROSS IT).

PROVIDE SUITE DESIGNATIONS ON ALL EXTERIOR DOORS: MINIMUM SIZE OF 4 INCHES.

GENERAL:
PROVIDE FIRESTOPPING IN THE CONCEALED SPACES OF WALLS HORIZONTALLY AT INTERVALS NOT EXCEEDING 10 FEET.

PROVIDE DRAFTSTOPPING IN THE ROOF ATTIC SPACE SUCH THAT NO HORIZONTAL AREA OF THE ROOF SPACE SHALL EXCEED 3000 SQ. FT. IN AREA, PER IBC 718.4

CONTRACTOR SHALL INSTALL WOOD BLOCKING FOR ALL WALL HUNG DEVICES SUFFICIENT TO MEET LOCAL CODES.

INSULATING MATERIALS INSTALLED IN BUILDING OF ANY TYPE OF CONSTRUCTION SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 450 AS DETERMINED IN ACCORDANCE WITH ASTM E84.

SIGNAGE IS NOT PERMITTED WITH THESE DOCUMENTS. A SEPARATE PERMIT FOR SIGNS MUST BE SUBMITTED.

PROVIDE TERMITE SHIELD UNDER WOOD SILL AT ALL LOCATIONS WHERE WOOD FRAMING IS IN CONTACT WITH FOUNDATION WALL ON EXTERIOR OF BUILDING.

PROVIDE CONTINUOUS SLAB EDGE INSULATION, MINIMUM R-8, AT ENTIRE PERIMETER OF BUILDING. SEE BUILDING AND WALL SECTIONS ON SHEETS A-301 THRU A-306 FOR ADDITIONAL INFORMATION

ARCHITECTURAL ABBREVIATIONS

PLEASE REFER TO ENGINEERING DRAWINGS FOR ENGINEERING ABBREVIATIONS

A	
A.C.T.	ACOUSTICAL CEILING TILE
A.F.F.	ABOVE FINISH FLOOR
A.H.U.	AIR HANDLING UNIT
ALT.	ALTERNATE
ALUM.	ALUMINUM
ANOD	ANODIZED
APPROX.	APPROXIMATELY
ARCH.	ARCHITECTURAL
ASTM	AMERICAN SOCIETY FOR TESTING MATERIAL
AUX.	AUXILIARY
B	
B/O	BOTTOM OF
B.F.F.	BOTTOM OF FINISH FLOOR
BKBD	BACKBOARD
BLDG.	BUILDING
C	
C.I.P.	CAST IN PLACE
C.J.	CONTROL JOINT
C/L	CENTERLINE
CLG.	CEILING
CLR.	CLEAR
C.M.	COFFEE MAKER
CMU	CONCRETE MASONRY UNIT
CNT.	COUNTER
C.O.	CASED OPENING
CONC.	CONCRETE
CONT.	CONTINUOUS
CPT.	CARPET
C.T.	CERAMIC TILE
D	
DBL.	DOUBLE
DFS	DIRECT APPLIED FINISH STUCCO
DIA.	DIAMETER
DIV.	DIVISION
DN.	DOWN
DR.	DOOR
D.S.	DOWNSPOUT
DW.	DISHWASHER
D.W.	DOMESTIC WATER
DWG.	DRAWING
DWGS.	DRAWINGS
E	
EA	EACH
EF.	EXHAUST FAN
ELEC.	ELECTRIC, ELECTRICAL
ELEV., EL	ELEVATION
EMS	ENERGY MANAGEMENT SYSTEM
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ.	EQUAL
EQUIP.	EQUIPMENT
E.W.	EACH WAY
E.W.H.	ELECTRIC WATER HEATER
EX. EXIST.	EXISTING
EXP.	EXPANSION
EXT.	EXTERIOR
F	
°F	FAHRENHEIT
F.D.	FLOOR DRAIN
F.D.C.	FIRE DEPARTMENT CONNECTOR
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.F.	FINISH FLOOR
F.J.B.	FRONT JOIST BEARING
F.O.F.	FACE OF FINISH
F.O.S.	FACE OF STUD
FT.	FEET
G	
GA.	GAUGE
GALV.	GALVANIZED
G.C.	GENERAL CONTRACTOR
GFCI.	GROUND FAULT CURRENT INTERRUPTER
GL	GLASS, GLAZING
GWB, GYP. BD.	GYPSUM WALL BOARD

H	
HC.	HANDICAPPED
HDWR.	HARDWARE
HM	HOLLOW METAL
HORIZ.	HORIZONTAL
HR.	HOUR
I	
ID.	INSIDE DIMENSION
I.M.	ICE MAKER
IN.	INCHES
INCAND.	INCANDESCENT
INSUL.	INSULATION
J	
JT.	JOINT
K	
K.	KIP
KO.	KNOCK OUT
KW	KILOWATT
L	
LAM.	LAMINATE
LAV.	LAVATORY
LB.	POUND
LF.	LINEAR FOOT
L.S.D	LIQUID SOAP DISPENSER
M	
MAX.	MAXIMUM
MECH.	MECHANICAL
MFR.	MANUFACTURER
MICRO.	MICROWAVE
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MM.	MILLIMETER
M.O.	MASONRY OPENING
MTD.	MOUNTED
MTL.	METAL
N	
N/A	NOT APPLICABLE
NE	NORTHEAST
NEG.	NEGATIVE
N.F.W.H.	NON-FREEZE WALL HYDRANT
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
NW	NORTHWEST
O	
O.A.	OVERALL
O.C.	ON CENTER
O.D.	OUTSIDE DIMENSION
O.H.	OVERHEAD
OPNG.	OPENING
OPP.	OPPOSITE
OPP. HD.	OPPOSITE HAND
P	
P.A.	PUBLIC ADDRESS
PAR.	PARALLEL
PERP.	PERPENDICULAR
PL.	PLATE
P.LAM.	PLASTIC LAMINATE
PLY.WD.	PLYWOOD
PNL.	PANEL
POS.	POSITIVE
PREFAB.	PRE-FABRICATED
PREFIN.	PRE-FINISHED
P.S.I.	POUND PER SQUARE INCH
P.S.F.	POUND PER SQUARE FOOT
P.T.	PRESSURE TREATED
PVC.	POLYVINYL CHLORIDE
PVMT.	PAVEMENT

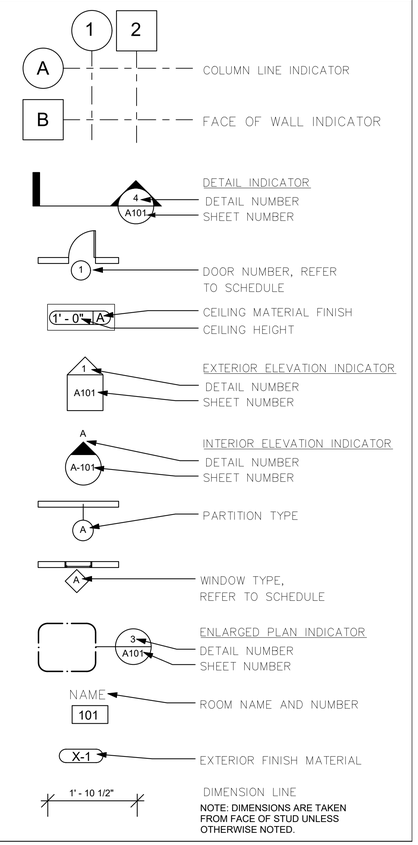
Q	
-	
R	
R.	RADIUS
R.D.	ROOF DRAIN
REF.	REFRIGERATOR
REINF.	REINFORCE, REINFORCING
REQD.	REQUIRED
R.J.B.	REAR JOIST BEARING
R.L.	RAIN LEADER
R.O.	ROUGH OPENING
RTU	ROOF TOP UNIT
R.V.	ROOF VENT
S	
SCH.	SCHEDULE
SE	SOUTHEAST
SGL.	SINGLE
SH. ROD	SHOWER ROD
SHT.	SHEET
SIM.	SIMILAR
S.O.G.	SLAB ON GRADE
S.S.	STAINLESS STEEL
STD.	STANDARD
STL.	STEEL
STRUCT.	STRUCTURE, STRUCTURAL
SW	SOUTHWEST
T	
T/C	TOP OF CURB
TECH	TECHNICAL
TEL	TELEPHONE
TEMP.	TEMPERATURE
T.O.	TOP OF
T/O	TOP OF
TR.	TRANSITION STRIP
T-STAT.	THERMOSTAT
TYP.	TYPICAL
U	
U.N.O.	UNLESS NOTED OTHERWISE
UTIL.	UTILITY
V	
V.C.T.	VINYL COMPOSITION TILE
VEND.	VENDING MACHINE
VERT.	VERTICAL
V.T.R.	VENT THROUGH ROOF
V.W.C.	VINYL WALL COVERING
W	
W/	WITH
W.C.	WATER CLOSET / WATER COOLER
WD	WOOD
W.H.	WATER HEATER
WHSE.	WAREHOUSE
WP.	WEATHER PROOF
W.R.	WATER RESISTANT
W.W.F.	WELDED WIRE FABRIC

MATERIAL INDEX

EARTH
STEEL
GRAVEL
PLYWOOD
GROUT OR SURFACE CONCRETE
GYPSUM
CAST-IN-PLACE CONCRETE
INSULATION - BATT OR LOOSE
CUT STONE
RIGID INSULATION
WOOD - ROUGH
EXTERIOR INSULATION FINISH SYSTEM
WOOD - FINISH
BRICK
WOOD BLOCKING

FINISH RATINGS		EXITS & PASSAGEWAYS	EXIT ACCESS CORRIDORS	ROOMS
	MINIMUM WALL FINISH CLASS "M"	A or B	A or B	A or B
	MINIMUM ROOF FINISH CLASS USE GROUP	A or B	A or B	A or B

GENERAL LEGEND



NOTE: DIMENSIONS ARE TAKEN FROM FACE OF STUD UNLESS OTHERWISE NOTED.

BY	DESCRIPTION	DATE	REV

REGISTERED ARCHITECT
ALEX ADEKANMBI
044557
STATE OF NEW YORK
2/15/2023
DATE

PREPARED BY:

ALEX ADEKANMBI, R.A.
2540 KINGSBROOKE LANE
DULUTH, GEORGIA 30097
PHONE: (404) 747-9419

PREPARED FOR:
Hutton SITE
REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY: AC
REVIEWED BY: BK
PROJ. MGR.
DATE ISSUED: 02/10/23
HAMBURG, NY

TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION:
8" CMU BEARING WALLS
WOOD TRUSS ROOF FRAMING
E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL
24' X 40' CANOPY PROTOTYPE W/120' CONVEYOR
FIN AT ENTRANCE
SITE ADDRESS: 5383 SOUTHWESTERN BOULEVARD
SITE ID: 200880

SHEET NO. G-002
GENERAL NOTES

LEGEND AND GENERAL NOTES:

FE - FIRE EXTINGUISHER: TYPE IS A 10 POUND A, B, C EXTINGUISHER
FEC - FIRE EXTINGUISHER CABINET

FE — FE - FIRE EXTINGUISHER

FEC - FIRE EXTINGUISHER IN SEMI RECESSED CABINET

EMERGENCY LIGHTS, REFER TO ELECTRICAL DRAWINGS

EXIT LIGHTS, REFER TO ELECTRICAL DRAWINGS

EXTERIOR EMERGENCY LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS.

S — SMOKE DETECTOR

TRAVEL DISTANCE TO EXIT

RECESSED 2x4 LED TROFFER WITH 90 MIN. EMERGENCY BATTERY

1. THE LIFE SAFETY PLANS ARE 'DIAGRAMMATIC ONLY'. THEIR PURPOSE IS SOLELY TO REPRESENT THE LIFE SAFETY COMPONENTS FOR THE PROJECT (AS INCLUDED IN THE CONSTRUCTION DOCUMENTS PREPARED BY THE ARCHITECT, ELECTRICAL ENGINEER, PLUMBING ENGINEER, ETC.), THE GENERAL CONTRACTOR SHALL USE THE CONSTRUCTION DOCUMENTS (NOT THE LIFE SAFETY PLANS) FOR THE IMPLEMENTATION OF THE REQUIRED LIFE SAFETY COMPONENTS INTO THE PROJECT.

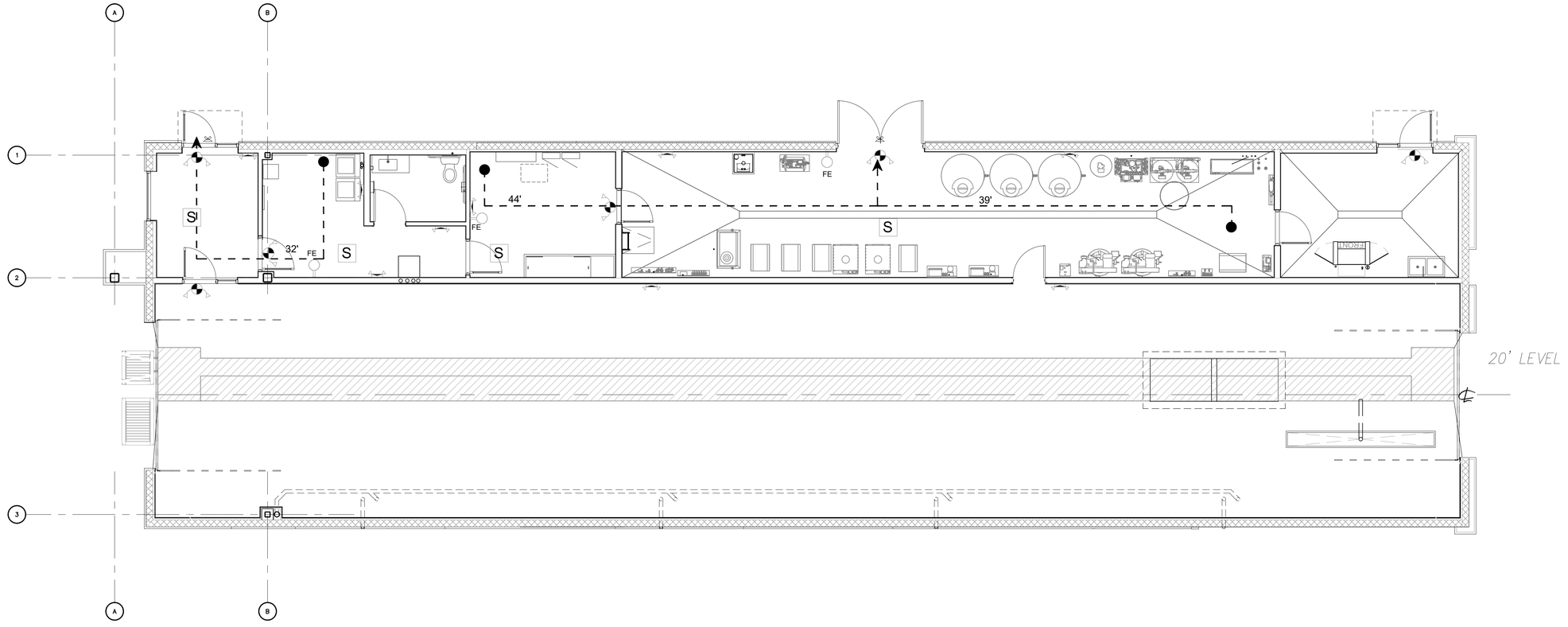
2. THE CONTRACTOR SHALL ADVISE THE ARCHITECT IMMEDIATELY UPON DISCOVERY OF ANY LIFE SAFETY COMPONENT THAT IS SHOWN ON THE LIFE SAFETY PLANS BUT HAS NOT BEEN INCLUDED IN THE CONSTRUCTION DOCUMENTS PREPARED BY THE ARCHITECT, ELECTRICAL ENGINEER, PLUMBING ENGINEER, ETC.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING THAT THE REQUIRED VISIBILITY FOR EACH INDIVIDUALLY INSTALLED EXIT LIGHT IS NOT IN ANY WAY DIMINISHED DUE TO VISUAL INTERFERENCE CAUSED BY ANY OTHER LIGHT FIXTURE, DEVICE, SIGN, ETC. THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT'S REFLECTED CEILING PLANS AND ELECTRICAL DRAWINGS.

4. FIRE EXTINGUISHER LOCATION AND QUANTITIES SHALL BE VERIFIED AND APPROVED BY LOCAL FIRE MARSHAL BEFORE INSTALLATION.

TENANT INFORMATION

CONSTRUCTION TYPE:	5-B
OCCUPANCY TYPE:	(B) BUSINESS
OCCUPANCY CAPACITY:	17 PEOPLE
TOTAL SQ. FT:	3,846 S.F.



1 / LS-101 LIFE SAFETY PLAN
SCALE: 3/16" = 1'-0"

BY	DESCRIPTION	DATE	REV

REGISTERED ARCHITECT
ALEX ADEKANMBI
044557
STATE OF NEW YORK
2/15/2023
DATE

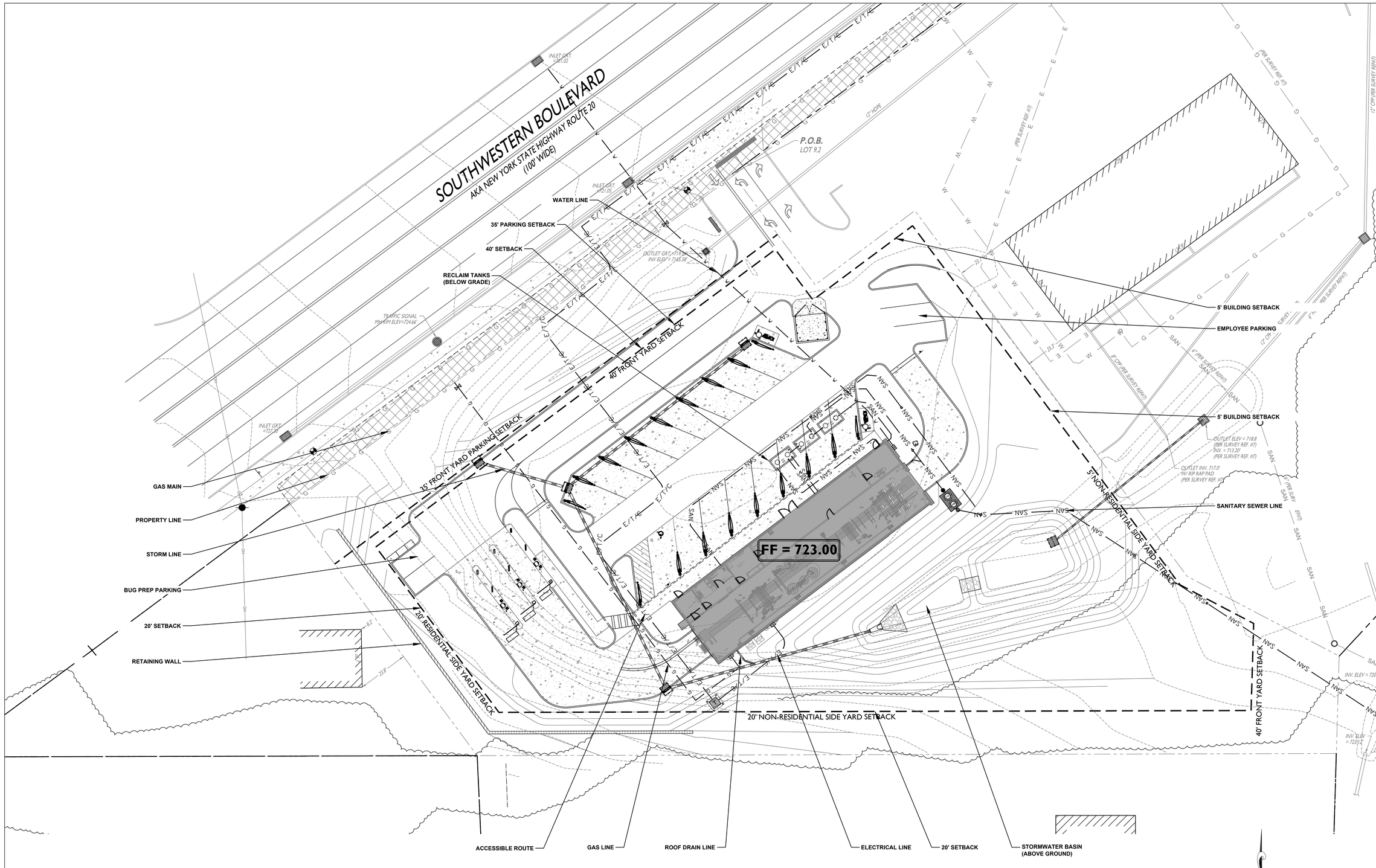
PREPARED BY:
ALEX ADEKANMBI, R.A.
2540 KINGSBROOKE LANE
DULUTH, GEORGIA 30097
PHONE: (404) 747-9419

PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION: 8" CMU BEARING WALLS WOOD TRUSS ROOF FRAMING E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL 1 LANE MODERN PROTOTYPE W/120' CONVEYOR FM AT ENTRANCE
SITE ID: 200890
SITE ADDRESS: 5363 SOUTHWESTERN BOULEVARD HAMBURG, NY

DRAWN BY	REVIEWED BY	PROJ. MGR.	DATE ISSUED
AC	BK		02/10/23

SHEET NO. LS-101
LIFE SAFETY



ACCESSIBLE PARKING IDENTIFICATION:

WHERE ACCESSIBLE PARKING SPACES ARE REQUIRED TO BE IDENTIFIED BY SIGNS. THE SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH SECTION 703.6.3.1. SIGNS IDENTIFYING VAN PARKING SPACES SHALL CONTAIN THE DESIGNATION "VAN ACCESSIBLE." SUCH SIGNS SHALL BE 60" (1525MM) MINIMUM ABOVE THE FLOOR OF THE PARKING SPACE, MEASURED TO THE BOTTOM OF THE SIGN. SIGN SHALL INDICATE A MINIMUM FINE OF $250.00

ACCESSIBLE ROUTE:

ACCESSIBLE PARKING SPACE SHALL BE LOCATED ON AN ACCESSIBLE ROUTE WITH WALKING SURFACES NO STEEPER THAN 1:20 AND WITH A CROSS SLOPE OF LESS THAN 2%. ACCESSIBLE ROUTE TO BE PROVIDED FROM STREET TO LOBBY ENTRY AS INDICATED ON DRAWING.

NOTE:
ALL BOLLARDS LOCATED ON THE SITE ARE TO BE PAINTED PPG 1243-7 "RAINBOW BRIGHT", PER OWNERS APPROVAL.

1 / A-100 — ARCHITECTURAL SITE PLAN - FOR REFERENCE ONLY
SCALE: 1" = 20'-0"

BY	DESCRIPTION	DATE	REV

REGISTERED ARCHITECT
ALEX ADEKANMBI
044557
STATE OF NEW YORK
03/02/2023
DATE

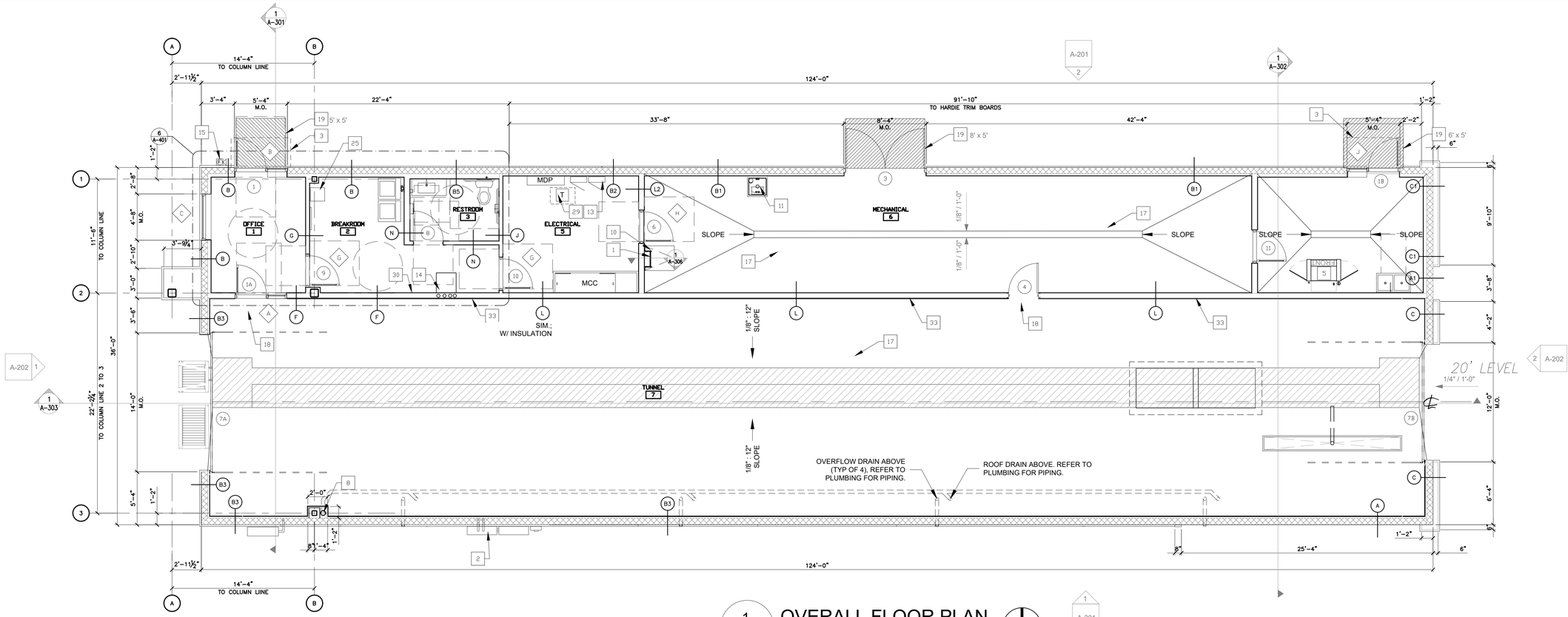
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PREPARED FOR:
Hutton
REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY:	AC
REVIEWED BY	BK
PROJ. MGR.	
DATE ISSUED	02/10/23
SITE ADDRESS	HAMBURG, NY
SITE ID	5383 SOUTHWESTERN BOULEVARD
20089D	

TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION:
8" CMU BEARING WALLS
WOOD TRUSS ROOF FRAMING
E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL
124' NORTHERN PROTOTYPE W/120' CONVEYOR
FOR ALL PANEL SYSTEMS

SHEET NO.: A-100
ARCHITECTURAL SITE PLAN



1 A-101 **OVERALL FLOOR PLAN**
SCALE: 3/16" = 1'-0"

TRUE

1 A-201

KEYNOTE LEGEND

MARK	DESCRIPTION	MARK	DESCRIPTION	MARK	DESCRIPTION
1	PAINTED STEEL ROOF ACCESS LADDER, REFER TO SHEET A-307	14	I.T. CABINET WALL MOUNTED 49.5" H X 23.5" W X 25.5" D. REFER TO ELECTRICAL DRAWINGS BY TENANT.	24	NOT USED.
2	ELECTRICAL CT CABINET	15	SECURITY CAMERA, SECURED TO WALL (TYP.). G.C. SHALL VERIFY EXACT LOCATION WITH OWNER	25	SENTRY SAFE, MODEL SFW123GDC, FIRE & WATER PROOF, DIGITAL KEY PAD W/BACK-UP KEY, 1.23 CUBIC FEET. TENANT PURCHASED, TENANT INSTALLED.
3	DASHED LINE REPRESENTS CANOPY OR AWNING ABOVE, REFER TO ELEVATIONS & WALL SECTIONS FOR ADDITIONAL INFORMATION	16	NOT USED.	26	RECESSED POCKET IN MASONRY WALL TO ACCOMMODATE UTILITY PIPES. SEE STRUCTURAL DRAWINGS AND 2/A-200.
4	WALL TO BE FRAMED WITH 6" STUDS.	17	REINFORCED CONCRETE SLAB W/ PLASTICIZER (REFER TO STRUCTURAL DRAWINGS), LIGHT BROOM FINISH	27	CANOPY COLUMNS, REFER TO STRUCTURAL DRAWINGS AND EXTERIOR ELEVATIONS
5	RHINO MAT CLEANER	18	CONCRETE CONTRACTOR TO PROVIDE SMOOTH TRANSITION FROM LOBBY AT 0'-0" TO TUNNEL FLOOR WITH APPROXIMATE ELEVATION OF -0'-1 1/8", AND CREATE A LANDING WITH MAXIMUM 2% CROSS SLOPE, PER THE REQUIREMENTS OF IBC SECTION 1010.1.5 AND 1010.1.6. THE SLOPE OF THE SLAB OUTSIDE THE REQUIRED LANDING SHALL NOT EXCEED A 1:20 SLOPE.	28	CANOPY OVERHEAD, REFER TO STRUCTURAL DRAWINGS AND EXTERIOR ELEVATIONS
6	NOT USED.			29	TRANSFORMER AND FRAMED PLATFORM ABOVE.
7	NOT USED.			30	WALL TO HAVE ⅝" GYP. BD. ON ¾" PLYWOOD ON METAL STUDS
8	OVERFLOW AND ROOF DRAIN NOZZLE WITH COVER, JAY R. SMITH MODEL 1775 (OR APPROVED EQUAL)	19	LEVEL LANDING	31	NOT USED.
9	FLOOR DRAIN, REFER TO PLUMBING DRAWINGS	20	NOT USED.	32	NOT USED.
10	BILCO 36" x 30" TYPE SEC SECURITY SERIES ROOF HATCH OR APPROVED EQUAL	21	EXHAUST FAN ON ROOF, REFER TO MECHANICAL DRAWINGS	33	DIVIDE ATTIC SPACE INTO 2 SPACES NOT TO EXCEED 3000 SQ. FT. WITH DRAFT STOPPING ALONG THIS WALL.
11	EYE WASH STATION AND MOP SINK COMBO SEE PLUMBING DWGS	22	NOT USED.	34	SPLIT SYSTEM UNIT, REFER TO MECHANICAL DRAWINGS.
12	OUTDOOR ARCHITECTURAL LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS	23	DANDY 21IN W 4.4 CU FT FREE STANDING COMPACT REFRIGERATOR STAINLESS AND BLACK UNIT. TENANT PURCHASED, TENANT INSTALLED.		
13	ELECTRICAL PANEL BOARD ATTACHED TO WALL, REFER TO ELECTRICAL DRAWINGS				

WALL SCHEDULE

DETAIL	MARK	DESCRIPTION
EXTERIOR / INTERIOR	A	**SCORED SMOOTH FACED 8" CMU W/ INSULATED AND PARTIALLY GROUTED AND REINFORCED CELLS.** **INTERIOR:** EXTRUTECH P2400 LINER PANELS OVER 2" 30 MIL. ZEE FURRING INSTALLED HORIZONTALLY W/ 2" RIGID INSULATION (R-9.5 MIN.) W/ SEALER ON BLOCK SURFACE. **EXTERIOR:** PAINT (2) COATS.
EXTERIOR / INTERIOR	A1	**SCORED SMOOTH FACED 8" CMU W/ INSULATED AND PARTIALLY GROUTED AND REINFORCED CELLS.** **INTERIOR**: 5/8" FIRE RETARDANT PLYWOOD ON 2" METAL ZEE FURRING @ 2'-0" O.C. OVER 2" RIGID INSULATION (R-9.5 MIN.) W/ SEALER ON BLOCK SURFACE **EXTERIOR**: PAINT (2) COATS.
EXTERIOR / INTERIOR	A2	**SCORED SMOOTH FACED 8" CMU W/ INSULATED AND PARTIALLY GROUTED AND REINFORCED CELLS.** **INTERIOR**: 5/8" GYP. BD. (MOISTURE RESISTANT MEMBRANE @ 8'-0" A.F.F. IN ALL WET AREAS) ATTACHED TO 2" RIGID INSULATION, R-9.5 MIN. ON 2" METAL Z FURRING @ 2'-0" O.C. W/ SEALER ON BLOCK SURFACE. **EXTERIOR**: PAINT (2) COATS.
EXTERIOR / INTERIOR	B	**STANDARD 8" CMU W/ INSULATED AND PARTIALLY GROUTED AND REINFORCED CELL.** **INTERIOR**: 5/8" GYP. BD. (MOISTURE RESISTANT MEMBRANE @ 8'-0" A.F.F. IN ALL WET AREAS) ATTACHED TO 2" RIGID INSULATION, R-9.5 MIN. ON 2" METAL Z FURRING @ 2'-0" O.C. W/ SEALER ON BLOCK SURFACE. **EXTERIOR**: DRAINAGE E.I.F.S. SYSTEM ON 1 1/2" EPS BOARD ON DUPONT TYVEK WEATHER RESISTIVE BARRIER.
EXTERIOR / INTERIOR	B1	**STANDARD 8" CMU W/ INSULATED AND PARTIALLY GROUTED AND REINFORCED CELL.** **INTERIOR:** 5/8" FIRE RETARDANT PLYWOOD ON 2" METAL ZEE FURRING @ 2'-0" O.C. OVER 2" RIGID INSULATION (R-9.5 MIN.) W/ SEALER ON BLOCK SURFACE. **EXTERIOR:** 3/4 X 5-1/2" (VARYING LENGTHS) SMOOTH HARDIETRIM BOARDS OVER SMOOTH HARDIEPANEL VERTICAL SIDING OVER 7/8" 20 GAUGE HAT CHANNEL @ 16" O.C. OVER DUPONT TYVEK FLUID APPLIED WEATHER RESISTIVE BARRIER. REFER TO ELEVATIONS FOR COLORS AND PATTERN.
EXTERIOR / INTERIOR	B2	**STANDARD 8" CMU W/ INSULATED AND PARTIALLY GROUTED AND REINFORCED CELL.** **INTERIOR:** (1) ONE LAYER OF 5/8" PLY WD. ATTACHED TO 2" RIGID INSULATION, R-9.5 MIN. ON 2" METAL Z FURRING @ 2'-0" O.C. W/ SEALER ON BLOCK SURFACE. **EXTERIOR:** 3/4 X 5-1/2" (VARYING LENGTHS) SMOOTH HARDIETRIM BOARDS OVER SMOOTH HARDIEPANEL VERTICAL SIDING OVER 7/8" 20 GAUGE HAT CHANNEL @ 16" O.C. OVER DUPONT TYVEK FLUID APPLIED WEATHER RESISTIVE BARRIER. REFER TO ELEVATIONS.
EXTERIOR / INTERIOR	B3	**STANDARD 8" CMU W/ INSULATED AND PARTIALLY GROUTED AND REINFORCED CELLS.** **INTERIOR:** EXTRUTECH ON 2" METAL ZEE FURRING @ 2'-0" O.C. OVER 2" RIGID INSULATION (R-9.5 MIN.) W/ SEALER ON BLOCK SURFACE. **EXTERIOR:** DRAINAGE E.I.F.S. SYSTEM ON 1 1/2" EPS BOARD ON DUPONT TYVEK WEATHER RESISTIVE BARRIER.
EXTERIOR / INTERIOR	B5	**STANDARD 8" CMU W/ INSULATED AND PARTIALLY GROUTED AND REINFORCED CELLS.** **INTERIOR:** FRP UP TO 48" A.F.F. (1) ONE LAYER OF 5/8" GYP BD. (MOISTURE RESISTANT MEMBRANE @ 8'-0" A.F.F. IN ALL WET AREAS) ATTACHED TO 3 ½" MTL STUDS @ 16" O.C. OVER 2" RIGID INSULATION MECHANICALLY FASTENED TO BLOCK WALL, R-9.5 MIN. W/ SEALER ON BLOCK SURFACE. **EXTERIOR:** DRAINAGE E.I.F.S. SYSTEM ON 1 1/2" EPS BOARD ON DUPONT TYVEK WEATHER RESISTIVE BARRIER.
EXTERIOR / INTERIOR	C	**STANDARD 8" CMU W/ INSULATED AND PARTIALLY GROUTED AND REINFORCED CELLS. AND 6" STUDS@ 6" O.C.** **INTERIOR:** EXTRUTECH P2400 LINER PANELS OVER 2" 30 MIL. ZEE FURRING INSTALLED HORIZONTALLY W/ 2" RIGID INSULATION (R-9.5 MIN.) W/ SEALER ON BLOCK SURFACE. . **EXTERIOR:** DRAINAGE E.I.F.S. SYSTEM ON 1 1/2" EPS BOARD ON DUPONT TYVEK WEATHER RESISTIVE BARRIER.
EXTERIOR / INTERIOR	C1	**STANDARD 8" CMU W/ INSULATED AND PARTIALLY GROUTED AND REINFORCED CELLS, 6" MTL. STUDS @ 16" O.C.** **INTERIOR:** 5/8" GYP. BD. (MOISTURE RESISTANT MEMBRANE @ 8'-0" A.F.F. IN ALL WET AREAS) ATTACHED TO 2" RIGID INSULATION, R-9.5 MIN. ON 2" METAL Z FURRING @ 2'-0" O.C. W/ SEALER ON BLOCK SURFACE. **EXTERIOR:** DRAINAGE E.I.F.S. SYSTEM ON 1 1/2" EPS BOARD ON DUPONT TYVEK FLUID APPLIED WEATHER RESISTIVE BARRIER.
TUNNEL / INTERIOR	F	**6" MTL. STUD @ 16" O.C. W/ BATT INSULATION. EXTEND FRAMING, SHEATHING, AND INSULATION TO UNDERSIDE OF ROOF DECK. CUT SHEATHING AROUND ROOF JOISTS/ TRUSSES AND SEAL REMAINING GAP WITH EXPANDABLE FOAM SEALANT ON BOTH SIDES OF WALL.** **INTERIOR:** (1) ONE LAYER OF 5/8" GYP BD ON BREAK ROOM SIDE AND OFFICE. **TUNNEL SIDE:** EXTRUTECH LINER PANELS ON MOISTURE RESISTANT MEMBRANE (TYVEK OR EQUAL) AND 5/8" TONGUE AND GROOVE EXPOSURE 1 PLYWOOD EXTEND MEMBRANE TO UNDERSIDE OF ROOF SHEATHING.
INTERIOR / INTERIOR	G	**3 5/8" MTL. STUD @ 16" O.C. (UNLESS NOTED OTHERWISE)** **INTERIOR:** (1) ONE LAYER OF 5/8" GYP BD ON EACH SIDE: (MOISTURE RESISTANT @ 8'-0" A.F.F. IN ALL WET AREAS),
RESTROOM / ELECTRICAL ROOM	J	**3 5/8" MTL. STUD @ 16" O.C. WITH BATT INSULATION.** **RESTROOM:** FRP UP TO 48" A.F.F. GYP BD FROM 48" TO CEILING. (1) ONE LAYER OF 5/8" GYP BD ON 5/8" FIRE RETARDANT PLYWOOD TO 6" ABOVE CEILING. (MOISTURE RESISTANT @ 8'-0" A.F.F. IN ALL WET AREAS). **MECHANICAL ROOM:** 5/8" PLYWOOD.
TUNNEL / MECHANICAL ROOM	L	**6" MTL. STUD @ 16" O.C. EXTEND FRAMING AS NECESSARY TO CREATE DRAFTSTOPPING WITH PLYWOOD ON MECH. ROOM SIDE OF WALL.** **MECHANICAL ROOM:** (1) ONE LAYER OF 5/8" FIRE RETARDANT PLYWOOD. EXTEND PLYWOOD TO UNDERSIDE OF ROOF DECK AND CUT SHEATHING AROUND ROOF JOIST/TRUSSES TO CREATE DRAFTSTOP OF ROOF SPACE. **TUNNEL SIDE:** EXTRUTECH P2400 LINER PANELS ON MOISTURE RESISTANT MEMBRANE AND 5/8" TONGUE AND GROOVE EXPOSURE 1 PLYWOOD.
MECHANICAL ROOM / ELECTRICAL ROOM	L2	**6" MTL. STUD @ 16" O.C. WITH BATT INSULATION. EXTEND FRAMING, SHEATHING, AND INSULATION TO UNDERSIDE OF ROOF DECK. CUT SHEATHING AROUND ROOF JOISTS/ TRUSSES AND SEAL REMAINING GAP WITH EXPANDABLE FOAM SEALANT ON BOTH SIDES OF WALL.** **MECHANICAL ROOM:** (1) ONE LAYER OF 5/8" PLYWOOD **ELECTRICAL ROOM:** (1) ONE LAYER OF 5/8" PLYWOOD
INTERIOR / RESTROOM	N	**3 5/8" MTL. STUD @ 16" O.C. W/ BATT INSULATION.** **INTERIOR:** (1) ONE LAYER OF 5/8" GYPSUM BOARD. **RESTROOM SIDE:** FRP UP TO 48" A.F.F. GYP BD FROM 48" TO CEILING. (1) ONE LAYER OF 5/8" GYP BD ON 5/8" PLYWOOD TO 6" ABOVE CEILING. (MOISTURE RESISTANT @ 8'-0" A.F.F. IN ALL WET AREAS).

REV	DATE	DESCRIPTION	BY

REGISTERED ARCHITECT ALEX ADEKANMBI 044557 STATE OF NEW YORK

2/15/2023
DATE

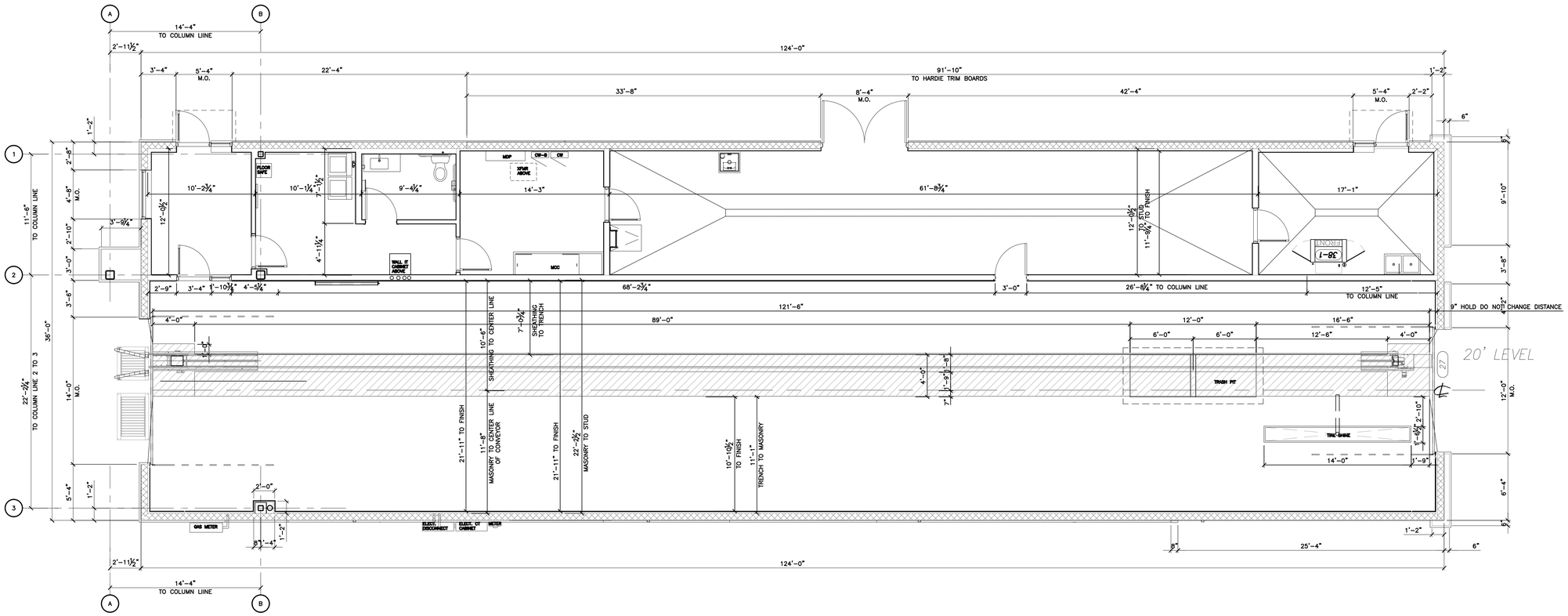
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PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY	REVIEWED BY	PROJ. MGR.	DATE ISSUED
AC	BK		02/10/23

TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION: 8" CMU BEARING WALLS WOOD TRUSS ROOF FRAMING E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL 124' NORTHERN PROTOTYPE W/120' CONVEYOR
PACKAGE:
SITE ADDRESS: 3363 SOUTHWESTERN BOULEVARD HAMBURG, NY
SITE ID: 200880

SHEET NO. A-101
OVERALL FLOOR PLAN



1 / A-102 DIMENSIONED FLOOR PLAN

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

TRUE

BY	DESCRIPTION	DATE	REV

REGISTERED ARCHITECT ALEX ADEKANMBI 044557 STATE OF NEW YORK

2/15/2023
DATE

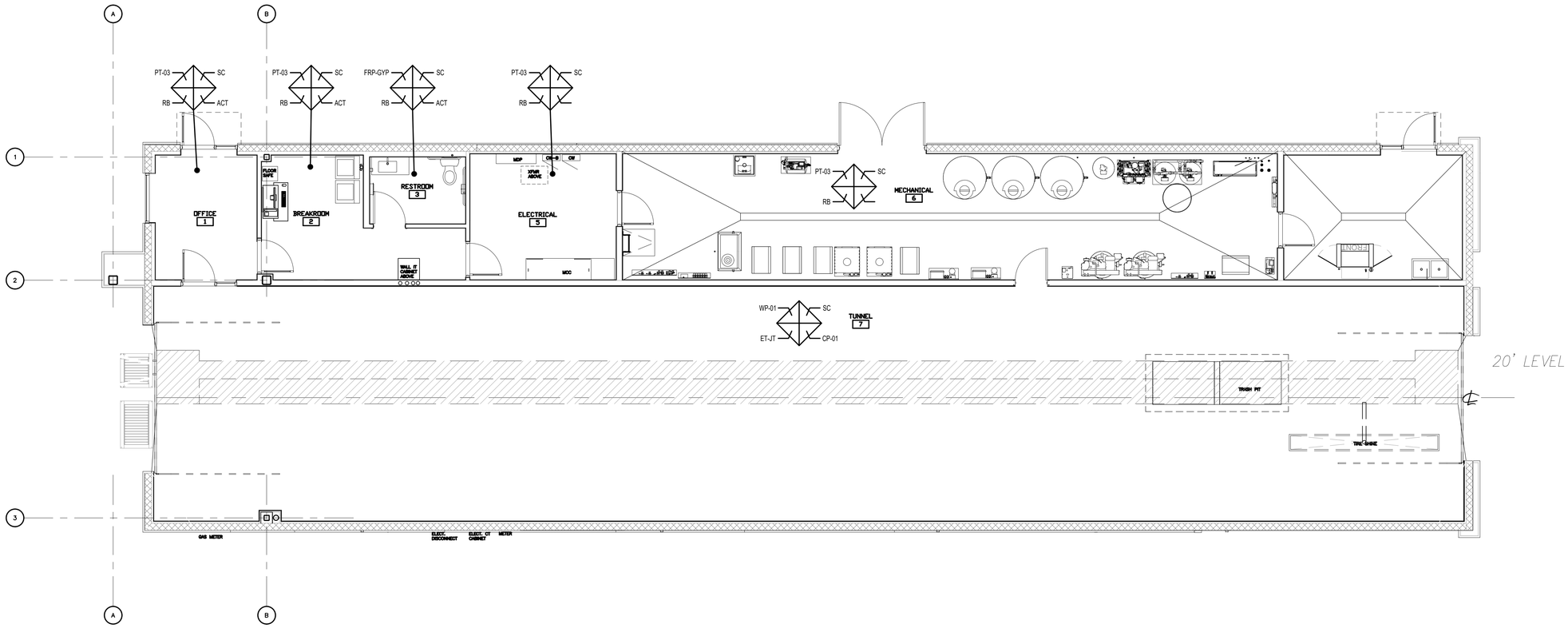
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SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

TITLE	MODWASH EXPRESS CARWASH
DESCRIPTION	8" CMU BEARING WALLS WOOD TRUSS ROOF FRAMING E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL 124' NORTHERN PROTOTYPE W/120' CONVEYOR FOR ALT FINISH
SITE ID	20089D
SITE ADDRESS	5363 SOUTHWESTERN BOULEVARD HAMBURG, NY
DRAWN BY	AC
REVIEWED BY	BK
PROJ. MGR.	
DATE ISSUED	02/10/23

SHEET NO. A-102
DIM FLOOR PLAN



1 / A-103 INTERIOR FINISH PLAN

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

TRUE

GENERAL FINISH NOTES

1. FURNITURE, EQUIPMENT, AND SHELVING TO BE PROVIDED BY CONTRACTOR.

2. PAINTER TO APPLY ONE COAT PRIMER AND TWO COATS FINISH COLOR TO ALL PAINTED WALLS AND NOTED SURFACES.

3. ALL MATERIALS SHALL BE FLAME SPREAD RATED AND/OR FIRE RATED PER LOCAL CODES. G.C. TO VERIFY FOR EACH JOB LOCATION.

4. G.C. TO PROVIDE TENANT WITH STOCK OF ADDITIONAL FINISH MATERIALS UPON COMPLETION OF WORK, INCLUDING, CEILING TILE (10 MIN), PAINT, LIGHT FIXTURE REPLACEMENT LAMPS, FLOOR FINISHES AND BASE (ADDITIONAL ITEMS TO BE PLACED IN AVAILABLE STORAGE AREA). G.C.'S PAINTING SUBCONTRACTOR TO PROVIDE OWNER WITH ONE (1) GALLON OF PAINT FOR EACH COLOR.

5. G.C. TO CLEAN FLOOR SURFACE PRIOR TO DELIVERY OF STORE TO MODWASH CAR WASH.

6. NOT USED

7. ALL HOLES ON INTERIOR OF SPACE TO BE SEALED INCLUDING WALLS AND FLOOR. INSTALL METAL GRILLE OVER OPEN ENDED PIPES.

8. HOLLOW METAL DOORS AND FRAMES TO BE PRIMED AND PAINTED IN FIELD WITH 1 COAT PRIMER AND 2 COATS COLOR TO MATCH WALL SURFACE OF DOOR FACING.

9. G.C. OR PAINT CONTRACTOR MUST NOTIFY LOCAL SHERWIN WILLIAMS DEALER THAT PAINT IS BEING PURCHASED FOR MODWASH CAR WASH AND PROVIDE DEALER WITH CAR WASH LOCATION.

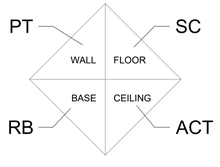
10. CONFIRM PAINTING OF SALES AREA WALLS WITH FIXTURE LAYOUT PLAN.

11. PAINT INSIDE FRAME OF OFFICE DOOR TO MATCH SELECTED PAINT COLOR.

12. INTERIOR WALL AND CEILING FINISHES SHALL COMPLY WITH THE PROVISIONS OF 2018 INTERNATIONAL BUILDING CODE SECTION 803 AND SHALL HAVE A FLAME SPREAD RATING OF CLASS C OR BETTER, IN ACCORDANCE WITH NFPA 286

13. INTERIOR FLOOR FINISH AND FLOOR COVERINGS SHALL COMPLY WITH THE PROVISION OF 2018 INTERNATIONAL BUILDING CODE SECTION 804 AND SHALL BE OF CLASS I OR II MATERIALS IN ACCORDANCE WITH NFPA 253

14. CONTRACTOR SHALL USE A POLYURETHANE OR SILICONE BASED SEALANT TO SEAL JOINTS WHERE CONCRETE SLAB-ON-GRADE MEETS WALLS IN TUNNEL SPACE.



ROOM SCHEDULE

ROOM NUMBER	ROOM NAME	WALL FINISH	BASE FINISH	FLOOR FINISH	CEILING FINISH	COMMENTS
1	LOBBY	PT-03	RB	SC	ACT	SMOOTH TROWEL FINISH ON FLOOR
2	OFFICE	PT-03	RB	SC	ACT	SMOOTH TROWEL FINISH ON FLOOR
3	RESTROOM	FRP-GYP	RB	SC	ACT	SMOOTH TROWEL FINISH ON FLOOR
4	NOT USED					
5	ELECTRICAL	PT-03	RB	SC		SMOOTH TROWEL FINISH ON FLOOR
6	MECHANICAL	PT-03	RB	SC		SMOOTH TROWEL FINISH ON FLOOR
7	TUNNEL	WP-01	ET-JT	SC	WP-01	LIGHT BROOM FINISH ON FLOOR
8	MAT CLEANER	PT-03	RB	SC	ACT	SMOOTH TROWEL FINISH ON FLOOR

INTERIOR FINISH SCHEDULE

MARK	MATERIAL	MANUFACTURER	MODEL / COLOR	FINISH	SIZE	REMARKS
PT-03	PAINT	SHERWIN WILLIAMS	WHITE	SEMI-GLOSS	PRIMER 2 COATS	SHERWIN WILLIAMS LOW-VOC BASE PRODUCT: PROMAR 200 - B31W02651 (SEMI-GLOSS)
WP-01	PVC WALL	EXTRUTECH	P2400 WHITE	FACTORY	24" PANEL 14'-0" LONG	G.C. SHALL PROVIDE PANELS, ACCESSORIES AND TRIM PROFILES AT CORNERS AND WALL OPENINGS. SUBCONTRACTOR TO INSTALL
ET-JT	J-TRIM	EXTRUTECH	WHITE	FACTORY	FACTORY	DRILL A ¼" HOLE IN THE BOTTOM OF THE J TRIM @ 16 CENTERS FOR WATER DRAINAGE. G.C. TO PROVIDE AND SUBCONTRACTOR TO INSTALL.
FRP-GYP	FRP & GYP	TBD	WHITE	FACTORY	FACTORY	FRP UP TO 48" ON WALLS. GYP BD ABOVE FRP TO CEILING PAINT FOR GYP SURFACE TO BE PT-03
CP-01	PVC CEILING PANEL	EXTRUTECH	P1600 WHITE	FACTORY	16" PANEL 20'-0" LONG	G.C. SHALL PROVIDE PANELS, ACCESSORIES AND TRIM PROFILES AT CORNERS AND WALL OPENINGS. SUBCONTRACTOR TO INSTALL
GYP	GYP	TBD	WHITE	FACTORY	FACTORY	PAINT FOR GYP SURFACE TO BE PT-03
PLY-WD	AC PLYWOOD	TBD		FACTORY	FACTORY	PAINT FOR PLYWOOD SURFACE TO BE PT-03
RB	RUBBER BASE	ROPPE	700 SERIES / 197 ICEBURG	FACTORY	4" EXCEPT 6" IN RESTROOM	CONTRACTOR SHALL INSTALL PER MANUFACTURER'S INSTRUCTIONS
SC	CONC. SLAB W/ SEALANT			REFER TO COMMENTS ON ROOM SCHEDULE		INSTALLER TO RECOMMEND SEALER AND SUBMIT PRODUCT CUT SHEETS TO OWNER FOR APPROVAL.
ACT	REFER TO SHEET A-111	REFER TO SHEET A-111	REFER TO SHEET A-111	REFER TO SHEET A-111	REFER TO SHEET A-111	ACOUSTIC LAY-IN CEILING IN HALL. BREAKROOM, AND OFFICE; SEE SHEET A-111 FOR MOUNTING HEIGHTS. ENSURE CLASS A FLAME SPREAD RATING

BY	DESCRIPTION	DATE	REV

REGISTERED ARCHITECT ALEX ADEKANMBI 044557 STATE OF NEW YORK

2/15/2023
DATE

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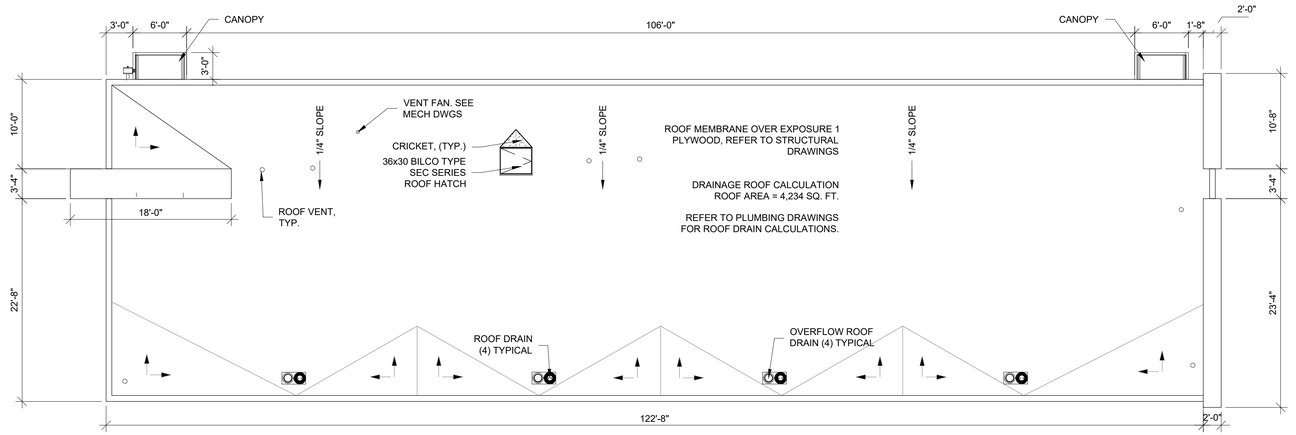
PREPARED FOR:

Hutton SITE REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY: AC
REVIEWED BY:
PROJ. MGR.: BK
DATE ISSUED: 02/10/23

TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION: 8" CMU BEARING WALLS WOOD TRUSS ROOF FRAMING E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL 24'-0" MODERN PROTOTYPE W/120' CONVEYOR FLEX AT ENTRANCE
SITE ADDRESS: 5363 SOUTHWESTERN BOULEVARD HAMBURG, NY
SITE ID: 200890

SHEET NO. A-103
INTERIOR FINISH PLAN



2 / A-111 ROOF PLAN
SCALE: 1/8" = 1'-0"

TRUE

ROOF PLAN NOTES

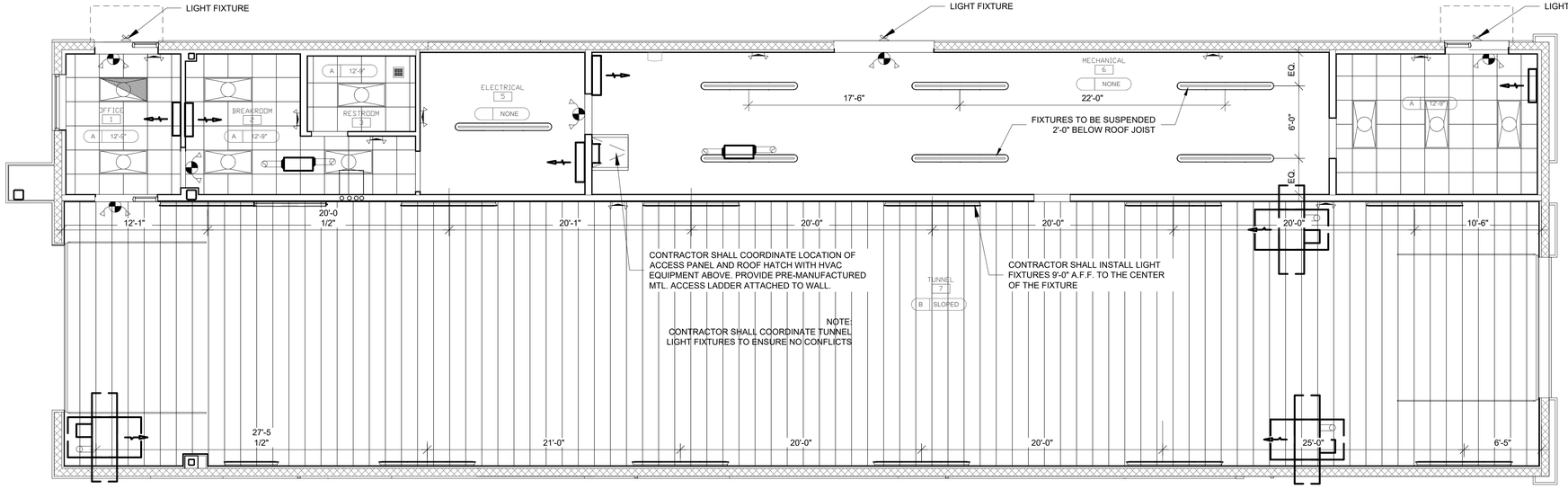
1. COORDINATE PLACEMENT OF RTU WITH MECHANICAL DRAWINGS AND STRUCTURAL FRAMING PLAN.
2. ALL DIMENSIONS ARE REFERENCE FROM 0'-0" AFF
3. USE 45 MIL. TPO ROOF AND PROVIDE 20 YEAR WARRANTY
4. ROOF INSULATION TO BE:
   - 4.1. (R-25 MIN.) CLOSED CELL SPRAY FOAM INSULATION ON THE UNDERSIDE OF ROOF DECK. INSULATION SHALL BE SPRAYED WITH FIRE-RESISTANT INTUMESCENT PAINT COATING.
   - OR
   - 4.2. (R-25 MIN.) RIGID INSULATION ABOVE ROOF SHEATHING
5. ROOF DECK TO BE EXPOSURE 1 PLYWOOD, REFER TO STRUCTURAL DRAWINGS.
6. DIVIDE ATTIC SPACE INTO 2 SPACES NOT TO EXCEED 3000 SQ. FT. WITH DRAFT STOPPING, REFER TO A-101.
7. ROOF HATCH TO BE BILCO TYPE S-20 2'-6"x 3'-0" x 14 GA. GALV. STEEL ROOF HATCH. PREPARE & PAINT HATCH PER SPECIFICATIONS - COLOR : BENJAMIN MOORE "SHADOW GRAY" 2125-40" OR EQUAL. PROVIDE BILCO LADDER UP SAFETY POST ANDD BILCO BIL-GUARD HATCH RAILING SYSTEM OR EQUAL - MIN 42" EXTENSION ABOVE ROOF SURFACE.

REFLECTED CEILING PLAN NOTES

1. REFER TO GENERAL NOTES AND SPECIFICATIONS FOR MORE INFORMATION
2. REFER TO ENGINEERING DRAWINGS FOR HVAC AND ELECTRICAL FIXTURES, SPECIFICATIONS, LOCATIONS, AND DETAILS
3. LIGHT FIXTURES SHOWN ON REFLECTED CEILING PLAN FOR LOCATION ONLY.

CEILING SCHEDULE

MARK	LOCATION	DESCRIPTION	MANUFACTURER	HEIGHT	SLOPE	COMMENTS
A	OFFICE, BREAKROOM, RESTROOM, AND MAT CLEANER RM.	WHITE 24" x 24" ACOUSTIC VINYL LAY-IN CEILING TILE, NON DIRECTIONAL	ARMSTRONG	12' - 9"	N/A	LUMAWASH 24"X24" MODEL #973
B	TUNNEL	EXTRUTECH P1600 16" WIDE LINER PANEL ON ⅀" HAT CHANNEL FURRING SECURED TO BOTTOM CHORD OF ROOF JOIST/ BEAM	EXTRUTECH PLASTICS, INC.	±13' - 1 1/4"	1/4" / 12"	HEIGHT IS LOW POINT OF SLOPED CEILING COLOR: WHITE
C	NOT USED					
D	CANOPY	EXTRUTECH P1600 16" WIDE LINER PANEL ON ⅀" HAT CHANNEL FURRING SECURED TO BOTTOM CHORD OF ROOF JOIST/ BEAM	EXTRUTECH PLASTICS, INC.	±10' - 4 1/8"	N/A	COLOR: WHITE



1 / A-111 REFLECTED CEILING PLAN
SCALE: 3/16" = 1'-0"

TRUE

REFLECTED CEILING LEGEND

- RESTROOM EXHAUST FAN, REFER TO MECHANICAL DRAWINGS
- SUPPLY AIR DIFFUSER, REFER TO MECHANICAL DRAWINGS
- RETURN AIR REGISTER, REFER TO MECHANICAL DRAWINGS
- UNIT HEATER, REFER TO MECHANICAL DRAWINGS
- 2' x 4' LAY IN TROFFER LED LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
- OUTDOOR LIGHT LED FIXTURE. REFER TO ELECTRICAL DRAWINGS AND ELEVATIONS.
- WALL SURFACE MOUNT WET LOCATION RATED LIGHT LED FIXTURE LIGHT MOUNTED AT 9'-0" A.F.F. TO C.L. OF FIXTURE, REFER TO ELECTRICAL DRAWINGS
- WET LOCATION RATED LIGHT LED FIXTURE LIGHT, REFER TO ELECTRICAL DRAWINGS
- RECESSED DOWN LIGHTS
- EXIT / EMERGENCY COMBO LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
- EMERGENCY LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS

REV	DATE	DESCRIPTION	BY

REGISTERED ARCHITECT
ALEX ADEKANMBI
044557
STATE OF NEW YORK
2/15/2023
DATE

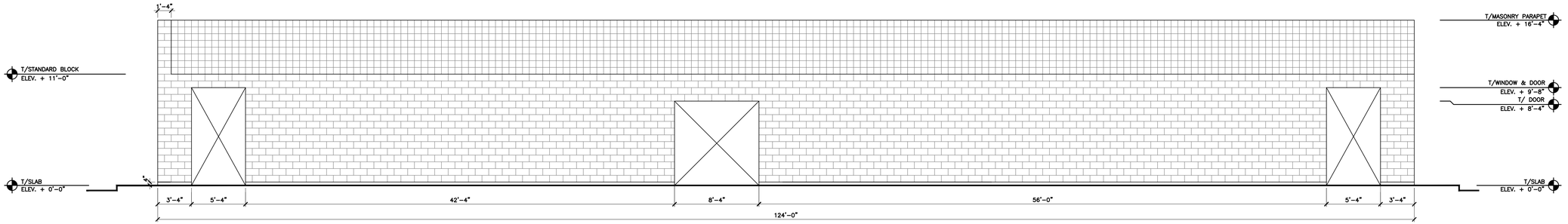
PREPARED BY:
ALEX ADEKANMBI, R.A.
2540 KINGSBROOKE LANE
DULUTH, GEORGIA 30097
PHONE: (404) 747-9419

PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

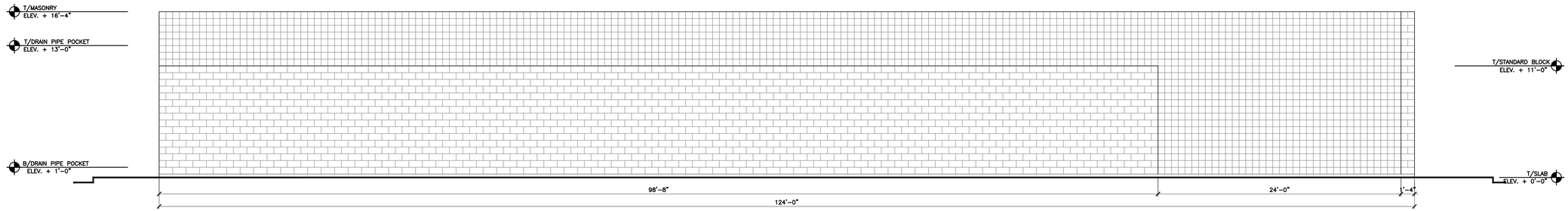
DRAWN BY: AC
REVIEWED BY:
PROJ. MGR.: BK
DATE ISSUED: 02/10/23

TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION:
8" CMU BEARING WALLS
WOOD TRUSS ROOF FRAMING
E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL
FIN AT KITCHEN PROTOTYPE W/120' CONVEYOR
FIN AT ENTRANCE
SITE ID: 200890
SITE ADDRESS: 5363 SOUTHWESTERN BOULEVARD
HAMBURG, NY

SHEET NO.: A-111
RCP & ROOF PLAN



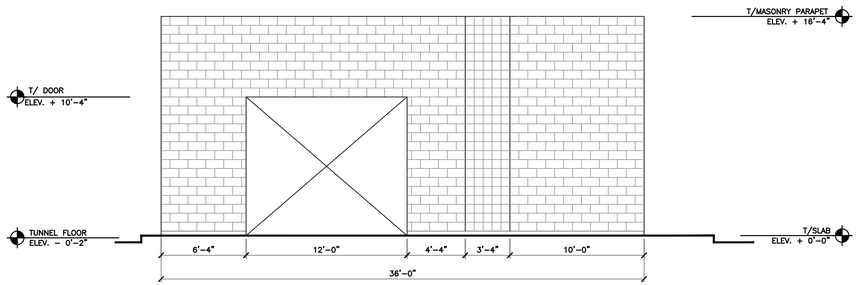
1 / A-200 **LOBBY AND VACUUM ELEVATION**
SCALE: 3/16" = 1'-0"



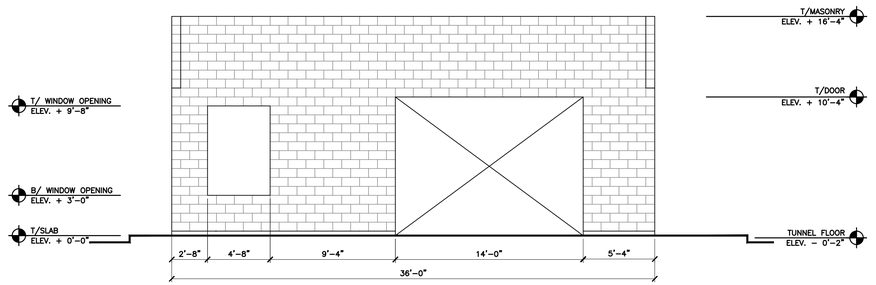
2 / A-200 **TUNNEL ELEVATION**
SCALE: 3/16" = 1'-0"

LEGEND

- INDICATES 4" INSET IN MASONRY WALL TO ACCOMMODATE GAS LINE AND ELECTRICAL CONDUITS. SEE DETAIL ON SHEET 6/S-3.0 ON STRUCTURAL DRAWINGS
- INDICATES STANDARD SMOOTH FACE CONCRETE MASONRY BLOCK
- INDICATES SCORED SMOOTH FACE CONCRETE MASONRY BLOCKS



3 / A-200 **EXIT ELEVATION**
SCALE: 3/16" = 1'-0"



4 / A-200 **ENTRANCE ELEVATION**
SCALE: 3/16" = 1'-0"

REV	DATE	DESCRIPTION	BY

REGISTERED ARCHITECT
ALEX ADEKANMBI
044557
STATE OF NEW YORK
2/15/2023
DATE

PREPARED BY:
ALEX ADEKANMBI, R.A.
2540 KINGSBROOKE LANE
DULUTH, GEORGIA 30097
PHONE: (404) 747-9419

PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

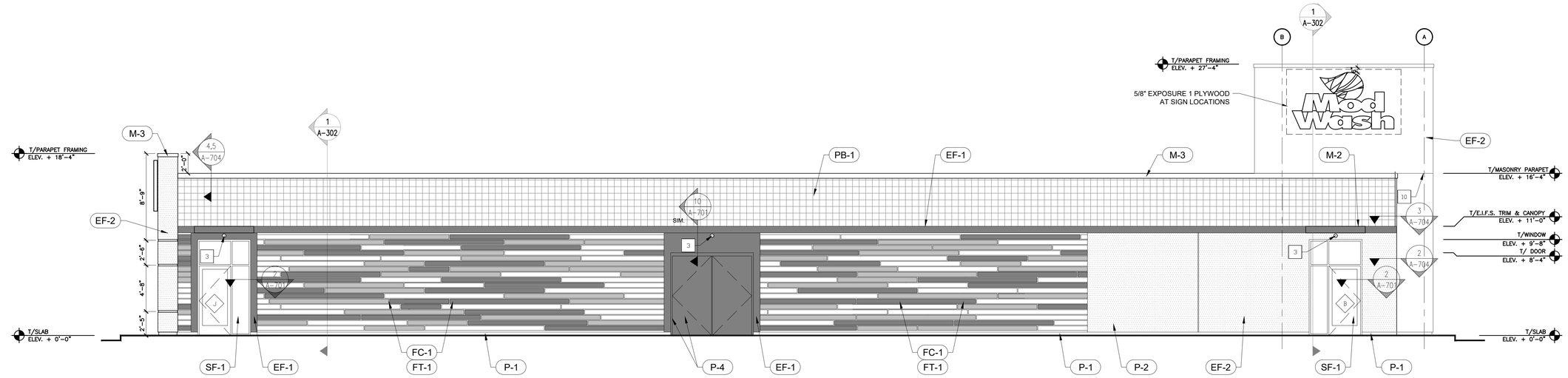
DRAWN BY	AC
REVIEWED BY	BK
PROJ. MGR.	
DATE ISSUED	02/10/23

TITLE: MODWASH EXPRESS CARWASH
HAMBURG, NY

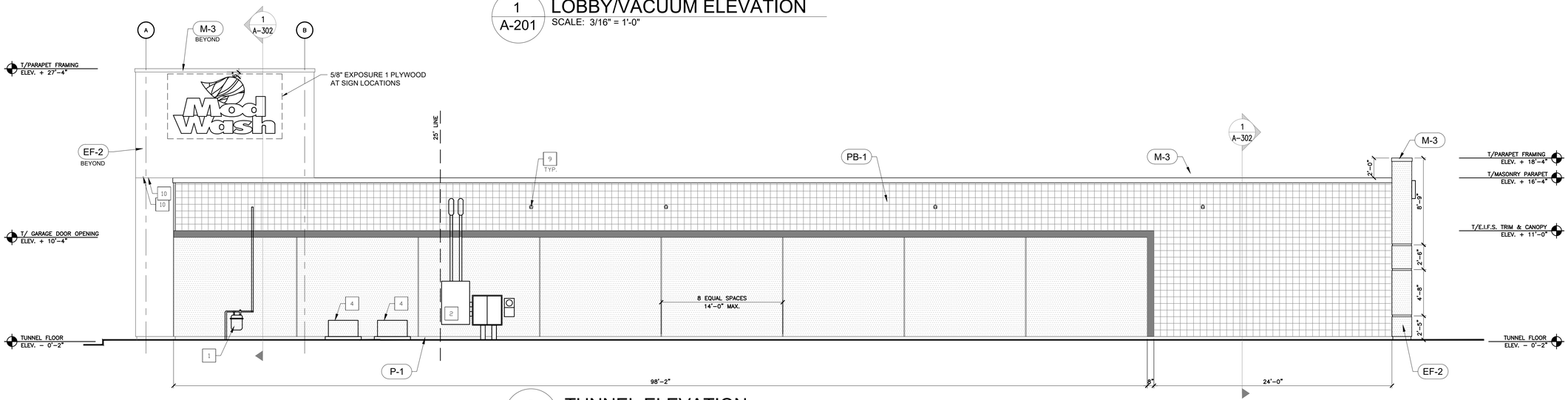
DESCRIPTION
8" CMU BEARING WALLS
WOOD TRUSS ROOF FRAMING
E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL
124' KRYSTAL PROTOTYPE W/120' CONVEYOR
FRONT ENTRANCE

SITE ID: 20089D
SITE ADDRESS: 5363 SOUTHWESTERN BOULEVARD

SHEET NO. A-200
ELEVATION CMU LAYOUT



1 A-201 LOBBY/VACUUM ELEVATION
SCALE: 3/16" = 1'-0"



2 A-201 TUNNEL ELEVATION
SCALE: 3/16" = 1'-0"

KEYNOTE LEGEND

MARK	DESCRIPTION
1	GAS METER, CONTRACTOR TO PROVIDE ALTERNATE TO PAINT TO MATCH WALL FINISH BEHIND.
2	ELECTRICAL CT CABINET, CONTRACTOR TO PROVIDE ALTERNATE PRICE TO PAINT TO MATCH WALL FINISH BEHIND, SEE ELECTRICAL SHEETS.
3	OUTDOOR ARCHITECTURAL LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
4	NOT USED
5	RHINO MAT CLEANER
6	NOT USED
7	NOT USED
8	HARDIE PANELS CONTINUE BEHIND RHINO MAT CLEANER
9	OVERFLOW DRAIN NOZZLE WITH COVER, JAY R. SMITH MODEL 1775 (OR APPROVED EQUAL)
10	EIFS CONTROL JOINT

EXTERIOR FINISH SCHEDULE

MARK	CATEGORY	MANUF.	DESCRIPTION
EF-1	EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)	SENERGY (OR EQUAL)	CHANNELED ADHESIVE CI DESIGN, FINE FINISH, COLOR TO MATCH: PPG, 1243-5 "BLUE DART"
EF-2	EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)	SENERGY (OR EQUAL)	CHANNELED ADHESIVE CI DESIGN, FINE FINISH, COLOR TO MATCH: PPG 1025-1 "COMMERCIAL WHITE"
FC-1	HARDIE BOARD	JAMES HARDIE™ OR APPROVED EQUAL	HARDIEPANEL VERTICAL SMOOTH SIDING OR APPROVED ALTERNATE, COLOR TO MATCH: PPG 1025-1 "COMMERCIAL WHITE" SEMI-GLOSS FINISH
FT-1	TRIM BOARDS	JAMES HARDIE™ OR APPROVED EQUAL	HARDIETRIM® BOARDS 3/4 x 5-1/2" SMOOTH x VARYING LENGTHS OR APPROVED ALTERNATE, COLOR TO MATCH:
			PPG 1244-4 "BOUDOIR BLUE" SEMI-GLOSS FINISH
			PPG 1243-5 "BLUE DART" SEMI-GLOSS FINISH
			PPG 1243-7 RAINBOW BRIGHT" SEMI-GLOSS FINISH
M-1	METAL	PAC-CLAD	
M-2	METAL	PAC-CLAD	AWNING COLOR: TO MATCH P-4 "BLUE DART"
M-3	METAL	PAC-CLAD	METAL COPING, COLOR: "BONE-WHITE"
P-1	PAINT	PPG	PPG 1025-1 "COMMERCIAL WHITE" SEMI-GLOSS FINISH
P-2	PAINT	PPG	PPG 1025-1 "COMMERCIAL WHITE" SEMI-GLOSS FINISH
P-4	PAINT	PPG	PPG 1243-5 "BLUE DART" SEMI-GLOSS FINISH
PB-1	8" SMOOTH FACE SCORED CMU	T.B.D.	8" SMOOTH FACE SCORED CMU w/ ARGOS "TYPE-N GRAY" MORTAR, TOOLED JOINTS. PAINT COLOR PPG 1025-1 "COMMERCIAL WHITE" SEMI-GLOSS FINISH
SF-1	STOREFRONT	YKK	ALUMINUM STOREFRONT SYSTEM w/ TEMPERED CLEAR GLAZING, COLOR: CLEAR ANODIZED ALUMINUM

BY	DESCRIPTION	DATE	REV

REGISTERED ARCHITECT
ALEX ADEKANMBI
044557
STATE OF NEW YORK
2/15/2023
DATE

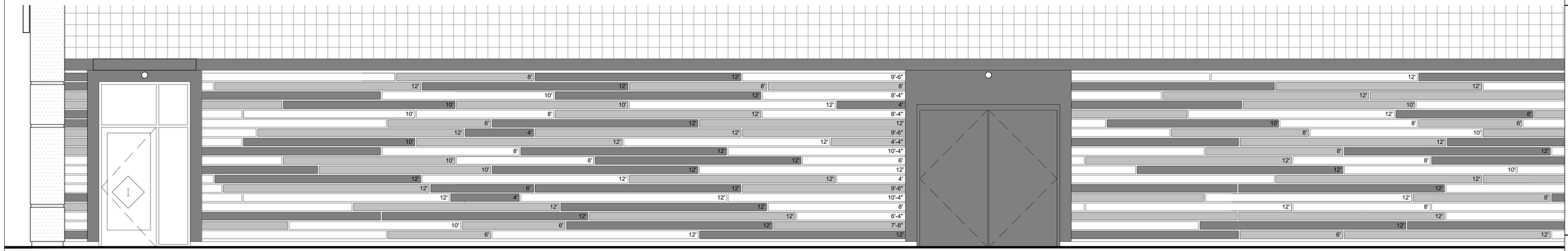
PREPARED BY:
ALEX ADEKANMBI, R.A.
2540 KINGSBROOKE LANE
DULUTH, GEORGIA 30097
PHONE: (404) 747-9419

PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY	AC
REVIEWED BY	BK
PROJ. MGR.	
DATE ISSUED	02/10/23
	HAMBURG, NY

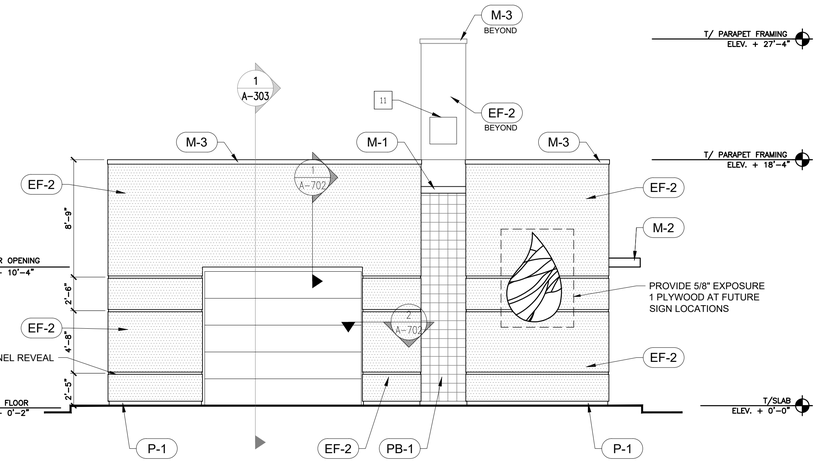
TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION:
8" CMU BEARING WALLS
WOOD TRUSS ROOF FRAMING
E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL
124' ARTESIAN PROTOTYPE W/120' CONVEYOR
FIN AT ENTRANCE
SITE ADDRESS: 5363 SOUTHWESTERN BOULEVARD
SITE ID: 200890

SHEET NO. A-201
ELEVATIONS



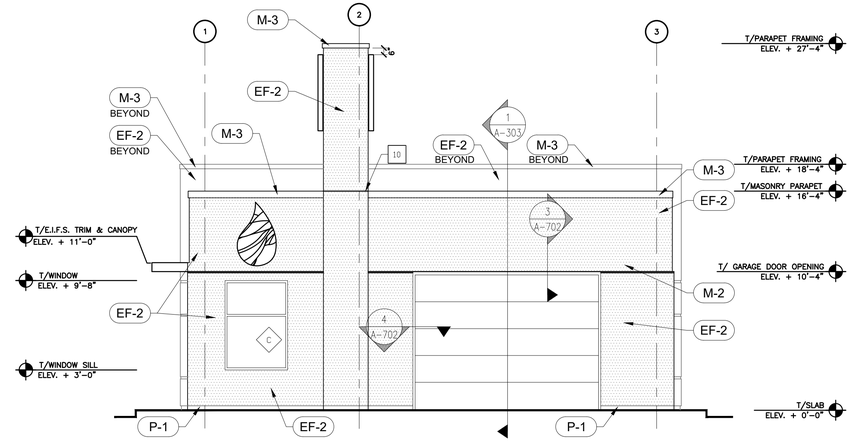
3 / A-202 BUILDING FEATURE DETAIL

SCALE: N.T.S.



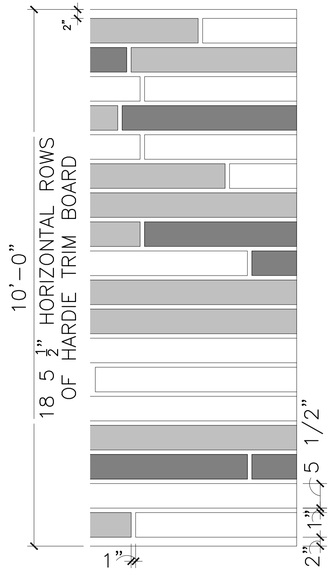
2 / A-202 EXIT SIDE ELEVATION

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



1 / A-202 ENTRY SIDE ELEVATION

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



4 / A-202 HARDIE BD DETAIL

SCALE: 3/4" = 1'-0"

KEYNOTE LEGEND

MARK	DESCRIPTION
1	GAS METER, CONTRACTOR TO PROVIDE ALTERNATE TO PAINT TO MATCH WALL FINISH BEHIND.
2	ELECTRICAL CT CABINET, CONTRACTOR TO PROVIDE ALTERNATE PRICE TO PAINT TO MATCH WALL FINISH BEHIND, SEE ELECTRICAL SHEETS.
3	OUTDOOR ARCHITECTURAL LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
4	NOT USED
5	RHINO MAT CLEANER
6	NOT USED
7	NOT USED
8	HARDIE PANELS CONTINUE BEHIND RHINO MAT CLEANER
9	OVERFLOW DRAIN NOZZLE WITH COVER, JAY R. SMITH MODEL 1775 (OR APPROVED EQUAL)
10	EIFS CONTROL JOINT
11	24" x 24" PLASTIC ACCESS DOOR, ACUDOR PA-3000-24x24

EXTERIOR FINISH SCHEDULE

MARK	CATEGORY	MANUF.	DESCRIPTION
EF-1	EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)	SENERGY (OR EQUAL)	CHANNELED ADHESIVE CI DESIGN, FINE FINISH, COLOR TO MATCH: PPG, 1243-5 "BLUE DART"
EF-2	EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)	SENERGY (OR EQUAL)	CHANNELED ADHESIVE CI DESIGN, FINE FINISH, COLOR TO MATCH: PPG 1025-1 "COMMERCIAL WHITE"
FC-1	HARDIE BOARD	JAMES HARDIE™ OR APPROVED EQUAL	HARDIEPANEL VERTICAL SMOOTH SIDING OR APPROVED ALTERNATE, COLOR TO MATCH: PPG 1025-1 "COMMERCIAL WHITE" SEMI-GLOSS FINISH
FT-1	TRIM BOARDS	JAMES HARDIE™ OR APPROVED EQUAL	HARDIETRIM® BOARDS 3/4 x 5-1/2" SMOOTH x VARYING LENGTHS OR APPROVED ALTERNATE, COLOR TO MATCH:
			PPG 1244-4 "BOUDOIR BLUE" SEMI-GLOSS FINISH
			PPG 1243-5 "BLUE DART" SEMI-GLOSS FINISH
			PPG 1243-7 RAINBOW BRIGHT" SEMI-GLOSS FINISH
M-1	METAL	PAC-CLAD	
M-2	METAL	PAC-CLAD	AWNING COLOR: TO MATCH P-4 "BLUE DART"
M-3	METAL	PAC-CLAD	METAL COPING, COLOR: "BONE-WHITE"
P-1	PAINT	PPG	PPG 1025-1 "COMMERCIAL WHITE" SEMI-GLOSS FINISH
P-2	PAINT	PPG	PPG 1025-1 "COMMERCIAL WHITE" SEMI-GLOSS FINISH
P-4	PAINT	PPG	PPG 1243-5 "BLUE DART" SEMI-GLOSS FINISH
PB-1	8" SMOOTH FACE SCORED CMU	T.B.D.	8" SMOOTH FACE SCORED CMU w/ ARGOS "TYPE-N GRAY" MORTAR, TOOLED JOINTS. PAINT COLOR PPG 1025-1 "COMMERCIAL WHITE" SEMI-GLOSS FINISH
SF-1	STOREFRONT	YKK	ALUMINUM STOREFRONT SYSTEM w/ TEMPERED CLEAR GLAZING, COLOR: CLEAR ANODIZED ALUMINUM

BY	DESCRIPTION	DATE	REV

REGISTERED ARCHITECT
ALEX ADEKANMBI
044557
STATE OF NEW YORK
2/15/2023
DATE

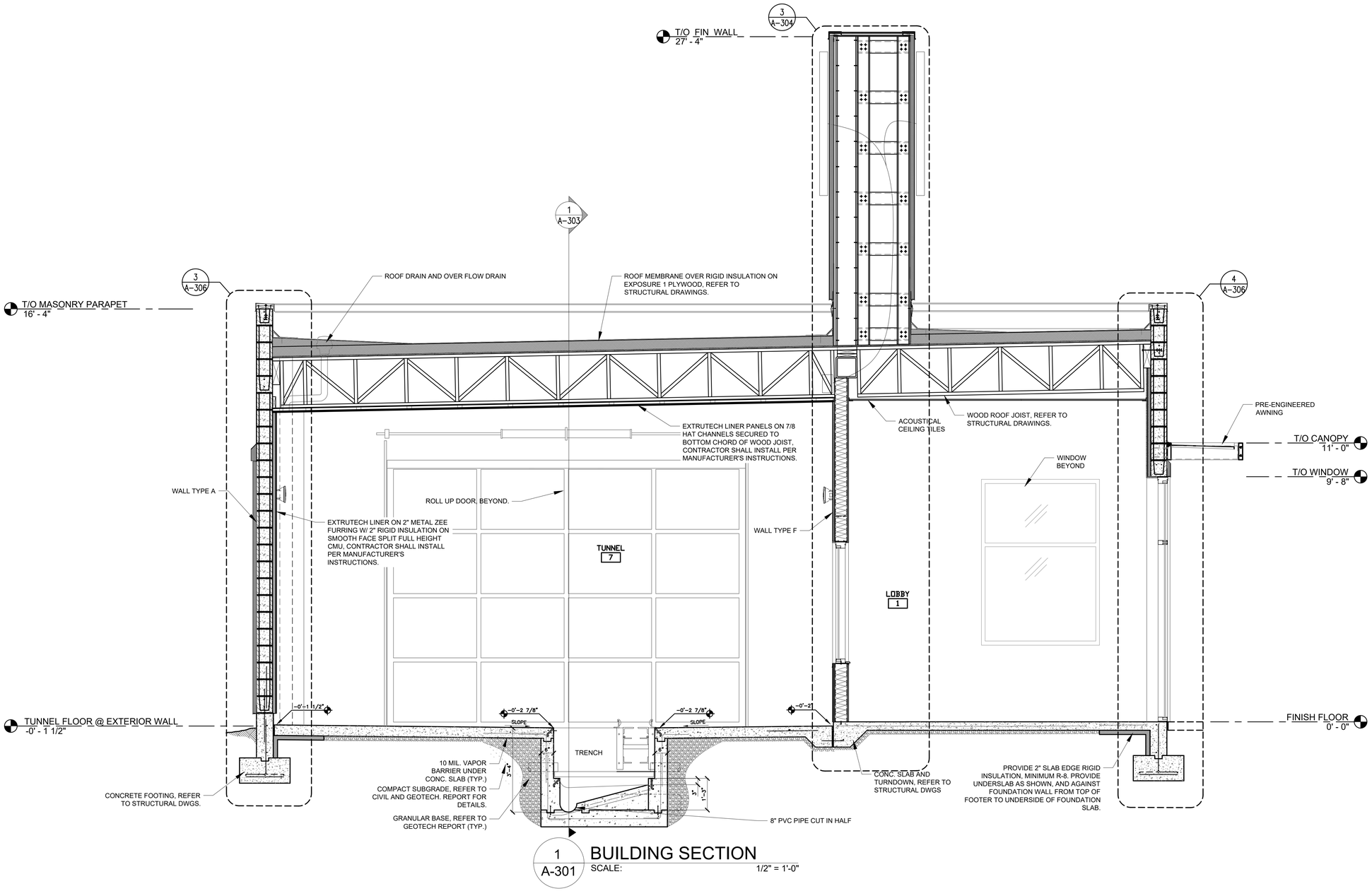
PREPARED BY:
ALEX ADEKANMBI, R.A.
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DULUTH, GEORGIA 30097
PHONE: (404) 747-9419

PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY	AC
REVIEWED BY	BK
PROJ. MGR.	
DATE ISSUED	02/10/23
	HAMBURG, NY

TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION: 8" CMU BEARING WALLS WOOD TRUSS ROOF FRAMING E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL 124' ADDITION PROTOTYPE W/120' CONVEYOR FLIP AT ENTRANCE
SITE ADDRESS: 3363 SOUTHWESTERN BOULEVARD
SITE ID: 200890

SHEET NO. A-202
ELEVATIONS



1 / A-301 **BUILDING SECTION**

SCALE: 1/2" = 1'-0"

BY	DESCRIPTION	DATE	REV

REGISTERED ARCHITECT
ALEX ADEKANMBI
044557
STATE OF NEW YORK

2/15/2023
DATE

PREPARED BY:
ALEX ADEKANMBI, R.A.
2540 KINGSBROOKE LANE
DULUTH, GEORGIA 30097
PHONE: (404) 747-9419

PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY	REVIEWED BY	PROJ. MGR.	DATE ISSUED
AC	BK		02/10/23

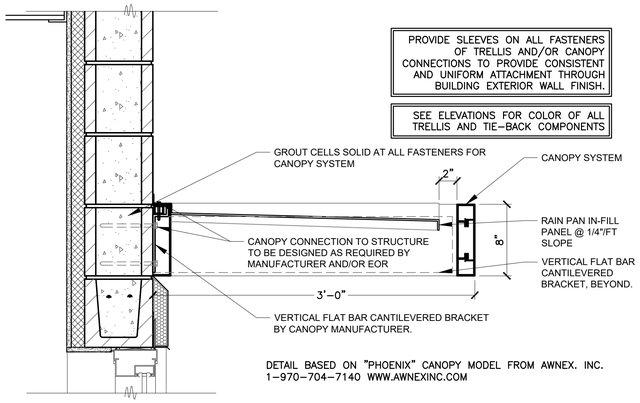
TITLE
MODWASH EXPRESS CARWASH

DESCRIPTION
8" CMU BEARING WALLS
WOOD TRUSS ROOF FRAMING
E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL
24' ARCHITECTURAL PROTOTYPE W/120' CONVEYOR
FIN ENTRANCE

SITE ADDRESS
5363 SOUTHWESTERN BOULEVARD
HAMBURG, NY

SITE ID
200890

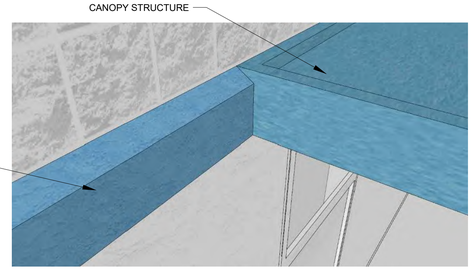
SHEET NO.
A-301
BUILDING SECTION



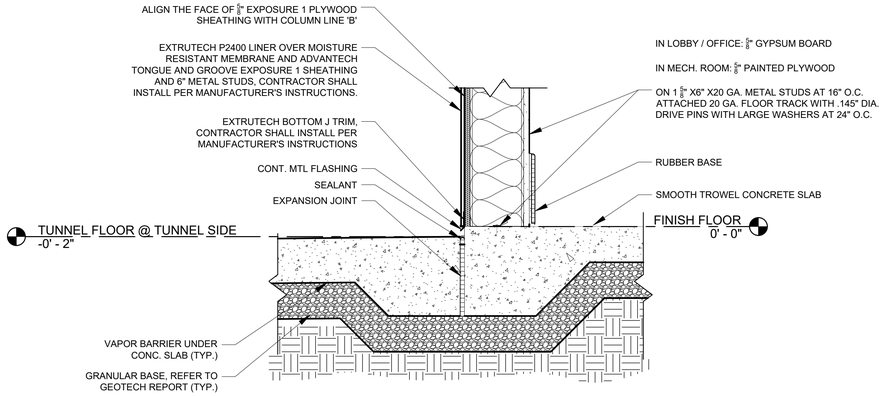
CANOPY SYSTEMS

CANOPY INFORMATION SHOWN IN CONSTRUCTION DOCUMENTS IS FOR DESIGN INTENT ONLY. APPROVED MANUFACTURERS SHALL PROVIDE A COMPLETE AND CODE COMPLIANT FINAL DESIGN.

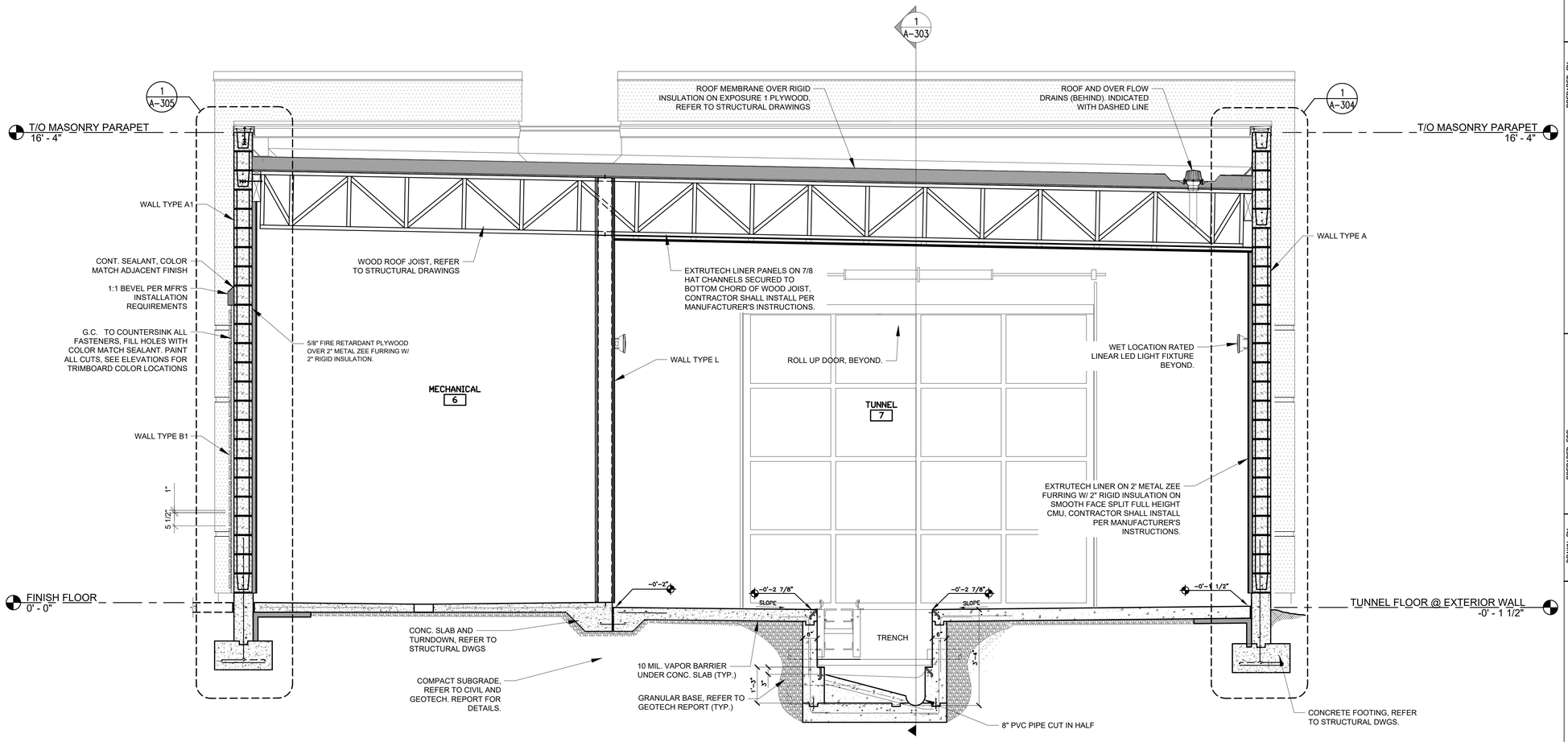
1. FASCIA (CANOPY): CONT. 8"H WHITE PAINTED ALUM.
2. OUTRIGGERS (CANOPY): PAINTED 2"X8" ALUMINUM TUBE.
3. PROVIDE ANODIZED ALUM. PANEL INFILL PAINTED TO MATCH CANOPY FRAMING TO PROVIDE POSITIVE SLOPE FOR DRAINAGE.
4. SYSTEM SHALL ALLOW FOR MOVEMENT AT EXPANSION JOINTS AND FOR MOVEMENT OF EXTERIOR WALL SYSTEM ON WHICH THE TRELLIS OR CANOPY IS MOUNTED.
5. STRUCTURAL ATTACHMENTS & LOAD CALCULATIONS SHALL BE FURNISHED BY CANOPY SYSTEM DESIGNER OF RECORD. SUPPLIER'S DESIGNER OF RECORD SHALL DESIGN PER PREVAILING CODES.
6. MANUFACTURER SHALL PROVIDE INSTALLER WITH INSTALLATION INSTRUCTIONS. MANUFACTURER SHALL DESIGN CANOPY IN ACCORDANCE WITH THE WALL SYSTEM AND BLOCKING AS INDICTED IN THE CONSTRUCTION DOCUMENTS.
7. INSTALLER SHALL NOTIFY CANOPY DESIGNER OF RECORD, MODWASH, G.C. AND ARCHITECT OF ANY DEFICIENCIES THAT WOULD NOT ALLOW FOR THE PROPER INSTALLATION OF THE CANOPY. CANOPY SHALL NOT BE INSTALLED UNTIL DEFICIENCIES HAVE BEEN CORRECTED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND THE CANOPY MANUFACTURER'S INSTALLATION INSTRUCTIONS.



2 / A-302 **DETAIL AT CANOPY**
SCALE: 1 1/2" = 1'-0"



3 / A-302 **INTERIOR TUNNEL WALL DETAIL**
SCALE: 1 1/2" = 1'-0"



1 / A-302 **BUILDING SECTION**
SCALE: 1/2" = 1'-0"

BY	DESCRIPTION	DATE	REV

REGISTERED ARCHITECT ALEX ADEKANMBI 044557 STATE OF NEW YORK
2/15/2023
DATE

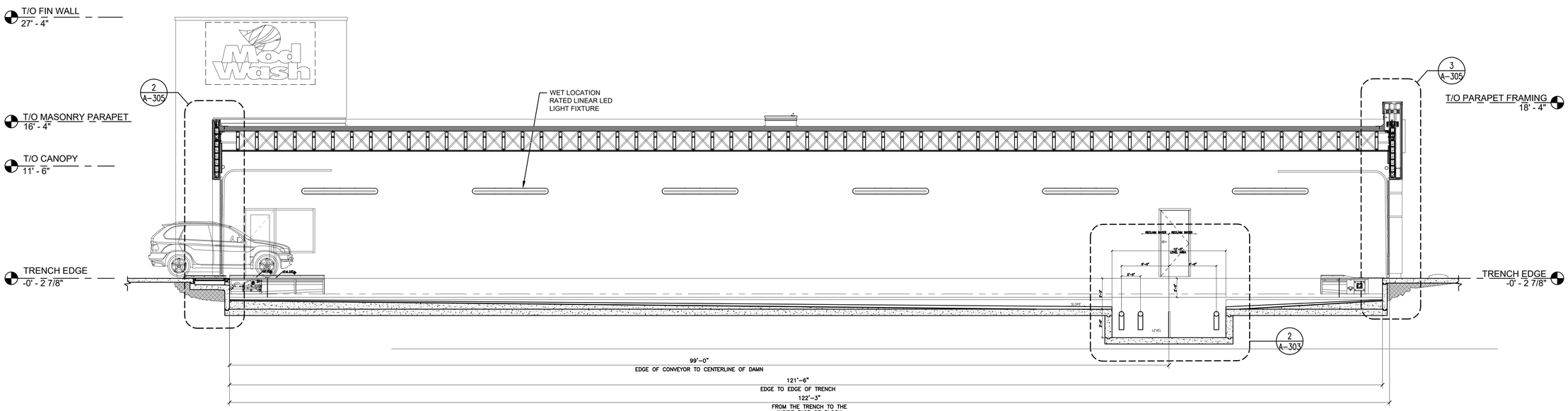
PREPARED BY:
ALEX ADEKANMBI, R.A.
2540 KINGSBROOKE LANE
DULUTH, GEORGIA 30097
PHONE: (404) 747-9419

PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

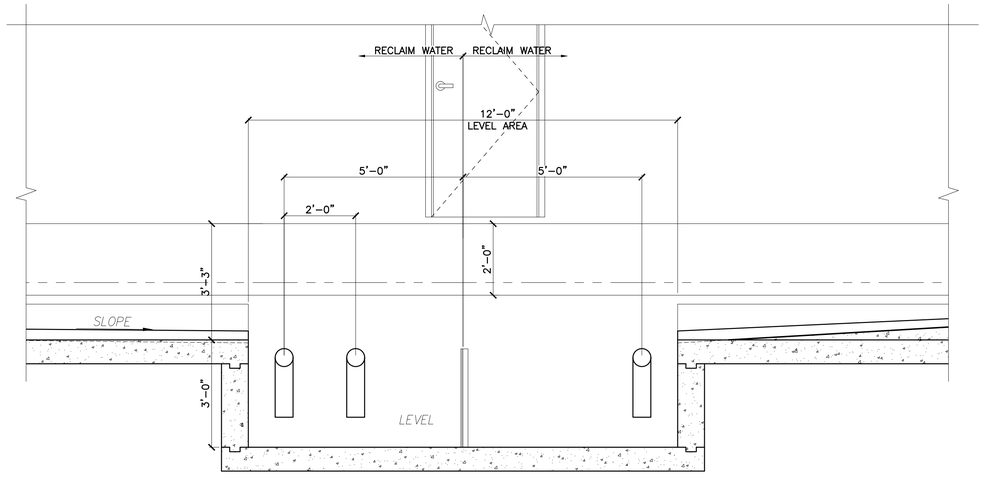
DRAWN BY	REVIEWED BY	PROJ. MGR.	DATE ISSUED
AC	BK		02/10/23

TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION: 8" CMU BEARING WALLS WOOD TRUSS ROOF FRAMING E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL 124' ACTIVATION PROTOTYPE W/120' CONVEYOR FIN AT ENTRANCE
SITE ADDRESS: 5363 SOUTHWESTERN BOULEVARD HAMBURG, NY
SITE ID: 200890

SHEET NO. A-302
BUILDING SECTION



1 A-303 **LONG SECTION AT TUNNEL**
SCALE: 3/16" = 1'-0"



2 A-303 **SECTION AT TRASH PIT**
SCALE: 1/2" = 1'-0"

BY	DESCRIPTION	DATE	REV

REGISTERED ARCHITECT
ALEX ADEKANMBI
044557
STATE OF NEW YORK
2/15/2023
DATE

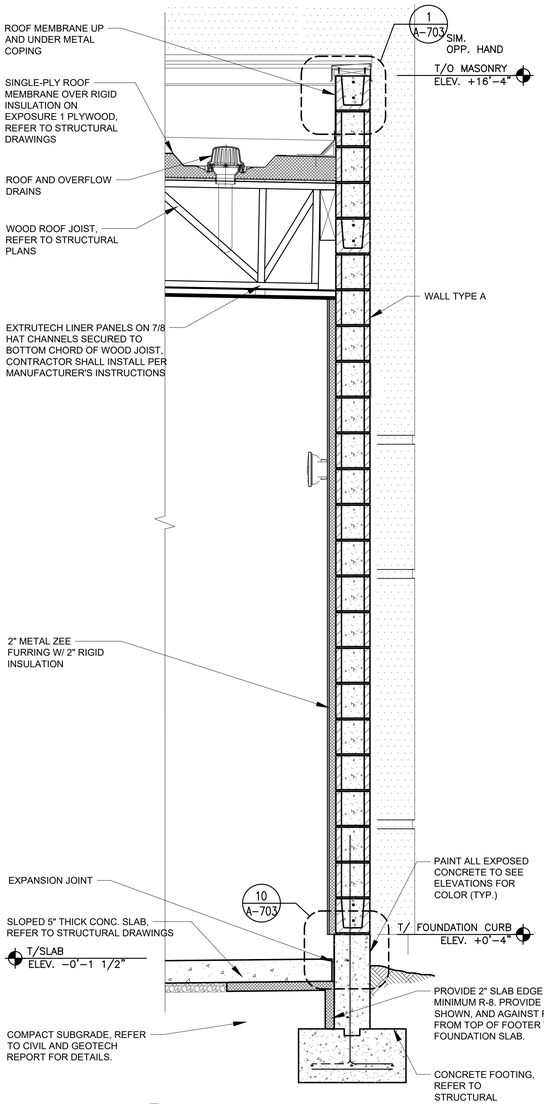
PREPARED BY:
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DULUTH, GEORGIA 30097
PHONE: (404) 747-9419

PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

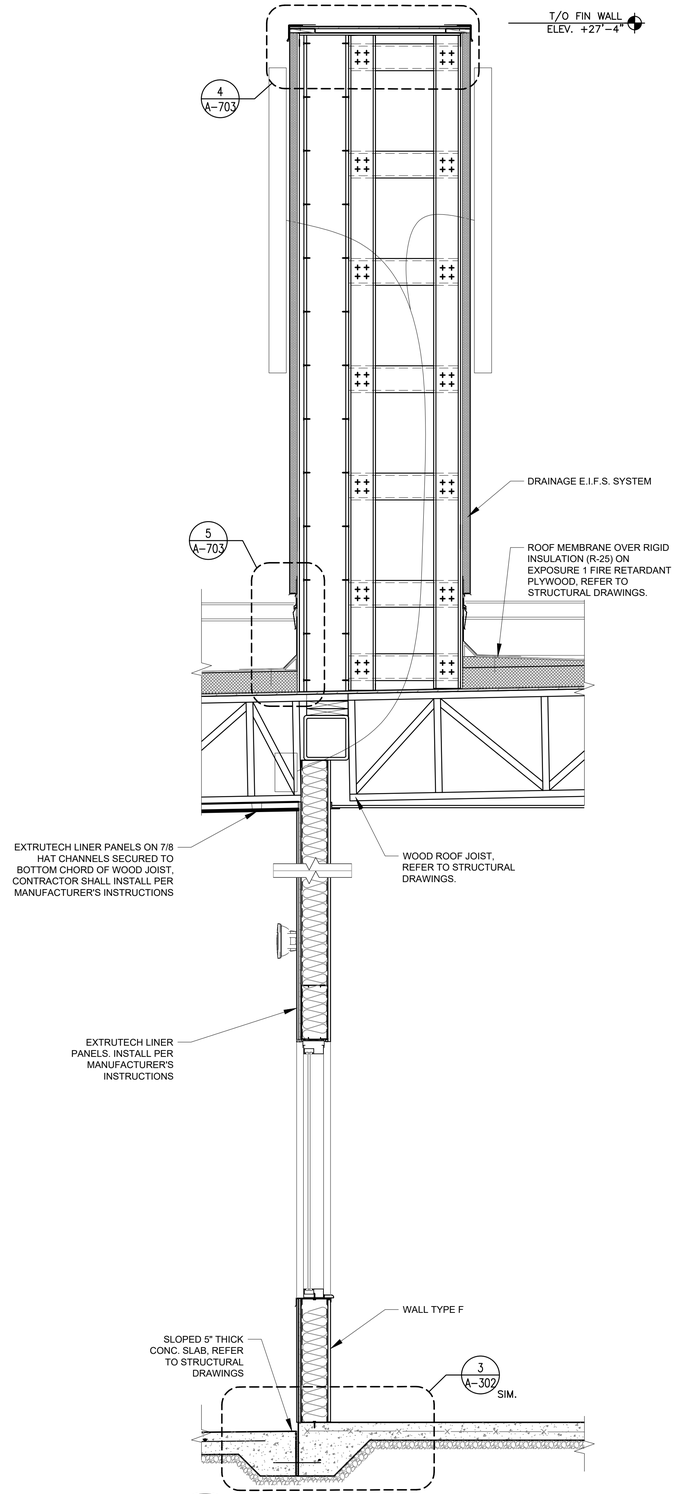
TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION:
8" CMU BEARING WALLS
WOOD TRUSS ROOF FRAMING
E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL
ITEM # 2 PROTOTYPE W/120' CONVEYOR
FOR ALL VERSION
SITE ID: 200890
SITE ADDRESS: 5363 SOUTHWESTERN BOULEVARD
HAMBURG, NY

DRAWN BY: AC
REVIEWED BY: EK
PROJ. MGR.
DATE ISSUED: 02/10/23

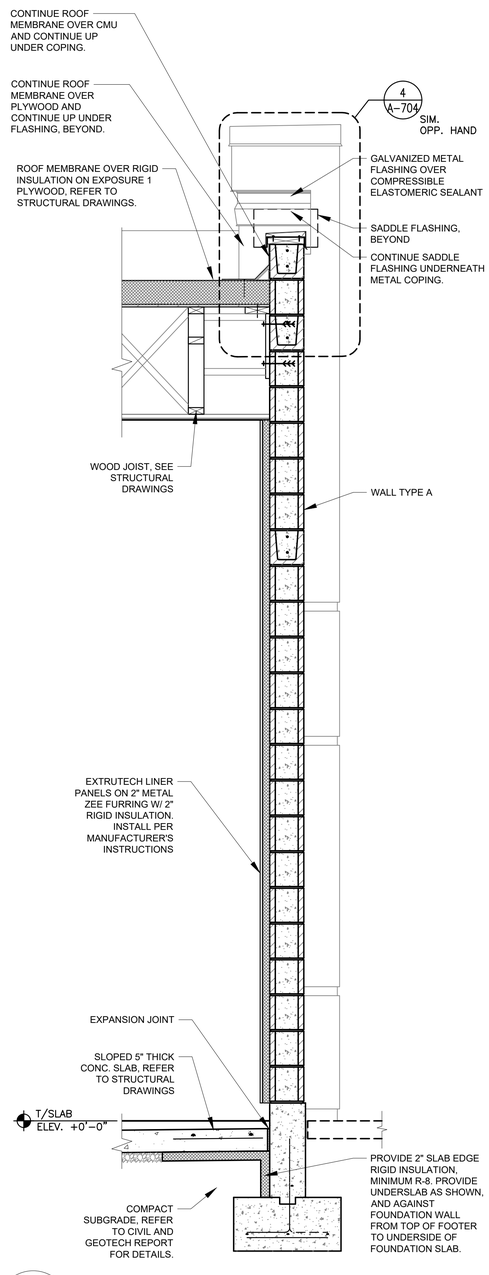
SHEET NO. A-303
BUILDING SECTION



1 A-304 SECTION AT TUNNEL REAR
SCALE: 3/4" = 1'-0"



3 A-304 SECTION AT FIN WALL
SCALE: 3/4" = 1'-0"



4 A-304 SECTION AT SADDLE FLASHING
SCALE: 3/4" = 1'-0"

BY	DESCRIPTION	DATE	REV

REGISTERED ARCHITECT ALEX ADEKANMBI 044557 STATE OF NEW YORK
2/15/2023
DATE

PREPARED BY:
ALEX ADEKANMBI, R.A.
2540 KINGSBROOKE LANE
DULUTH, GEORGIA 30097
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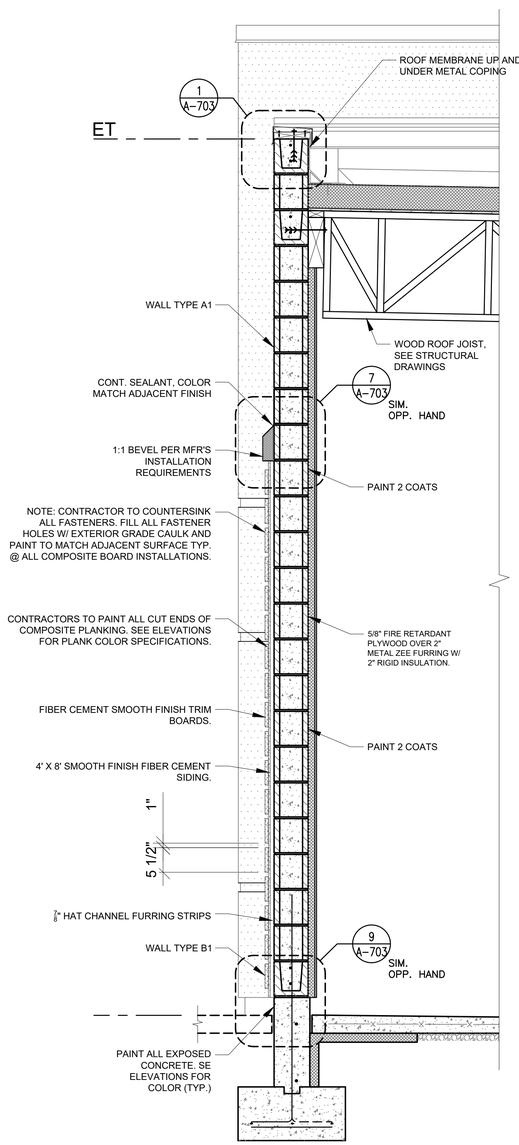
PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY	REVIEWED BY	PROJ. MGR.	DATE ISSUED
AC	BK		02/10/23

TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION: 8" CMU BEARING WALLS WOOD TRUSS ROOF FRAMING E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL 24' ABERTURN PROTOTYPE W/120' CONVEYOR FM ENTRANCE

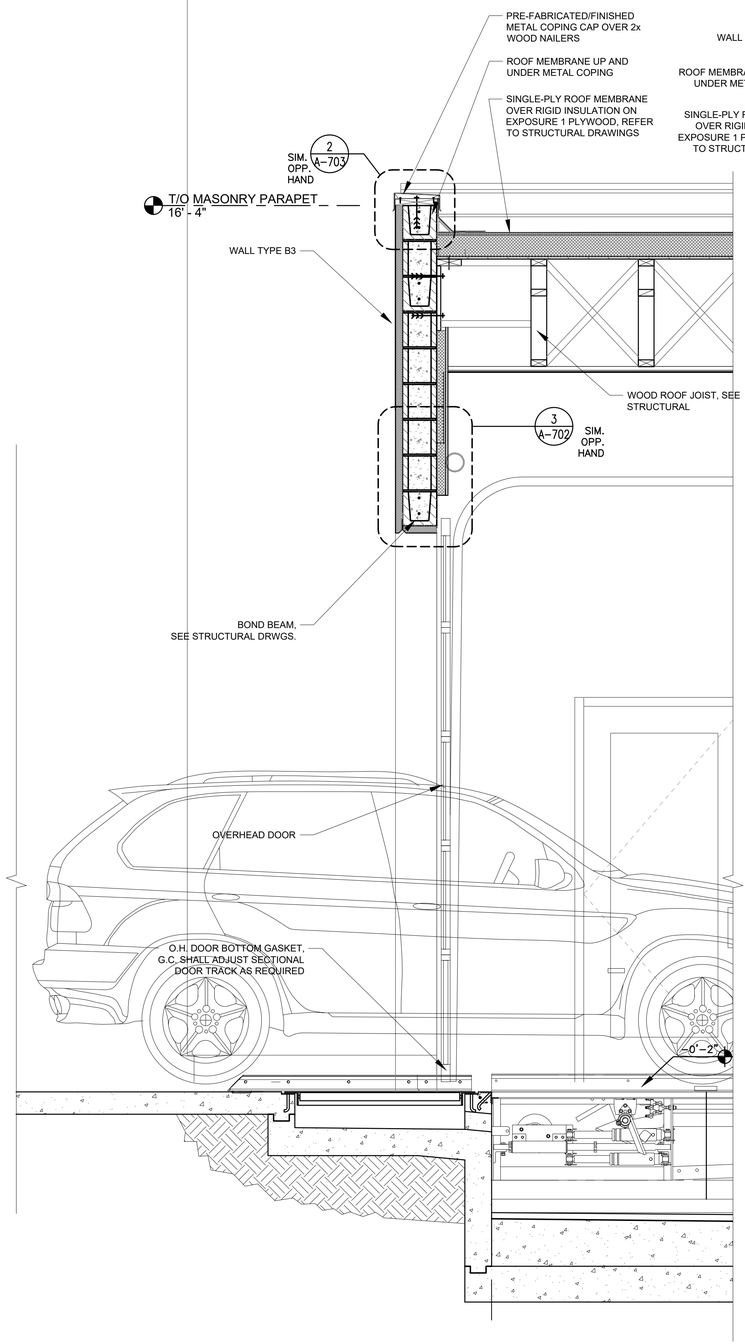
SITE ID	SITE ADDRESS	
20089O	5363 SOUTHWESTERN BOULEVARD	HAMBURG, NY

SHEET NO. A-304
BUILDING SECTION



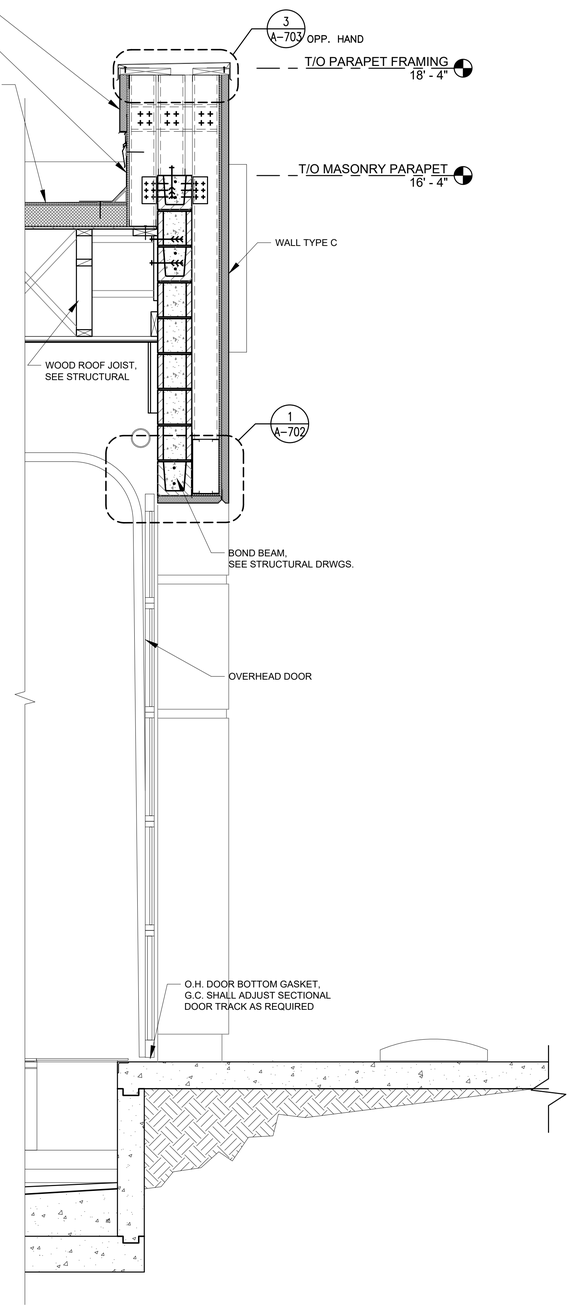
1 A-305 SECTION AT HARDIE PANELS

SCALE: 3/4" = 1'-0"



2 A-305 SECTION AT TUNNEL ENTRANCE

SCALE: 3/4" = 1'-0"



3 A-305 SECTION AT TUNNEL EXIT

SCALE: 3/4" = 1'-0"

REV	DATE	DESCRIPTION	BY

REGISTERED ARCHITECT ALEX ADEKANMBI 044557 STATE OF NEW YORK

2/15/2023
DATE

PREPARED BY:

ALEX ADEKANMBI, R.A.
2540 KINGSBROOKE LANE
DULUTH, GEORGIA 30097
PHONE: (404) 747-9419

PREPARED FOR:

SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

TITLE: MODWASH EXPRESS CARWASH

DESCRIPTION: 8" CMU BEARING WALLS WOOD TRUSS ROOF FRAMING E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL 124' X 40'TUNNEL PROTOTYPE W/120' CONVEYOR FOR AUTOMATIC ENTRANCE

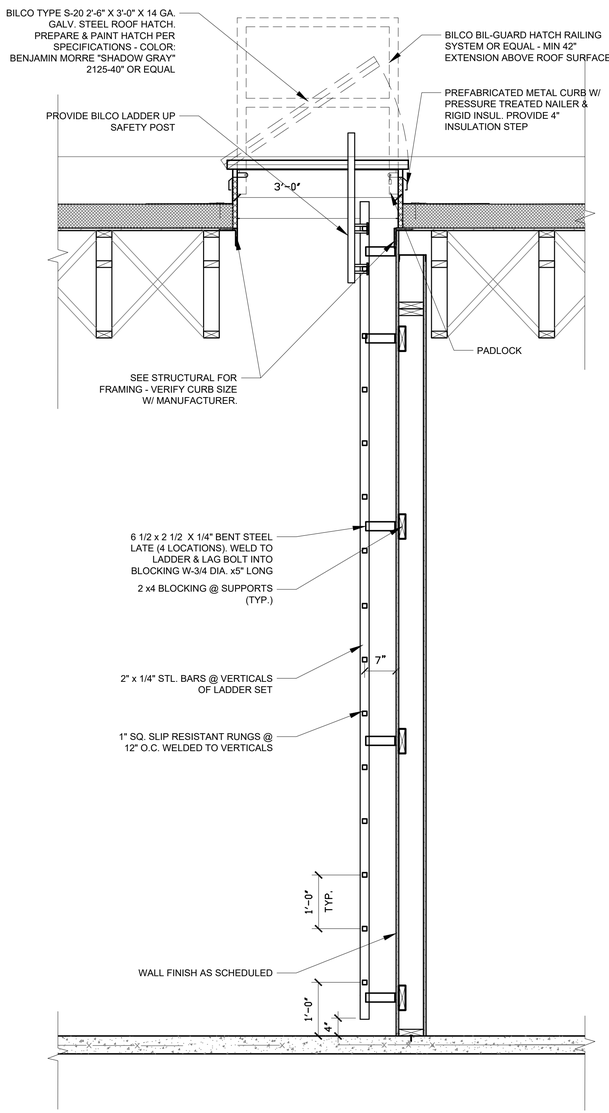
SITE ID: 200890

SITE ADDRESS: 5363 SOUTHWESTERN BOULEVARD HAMBURG, NY

DRAWN BY	REVIEWED BY	PROJ. MGR.	DATE ISSUED
AC	BK		02/10/23

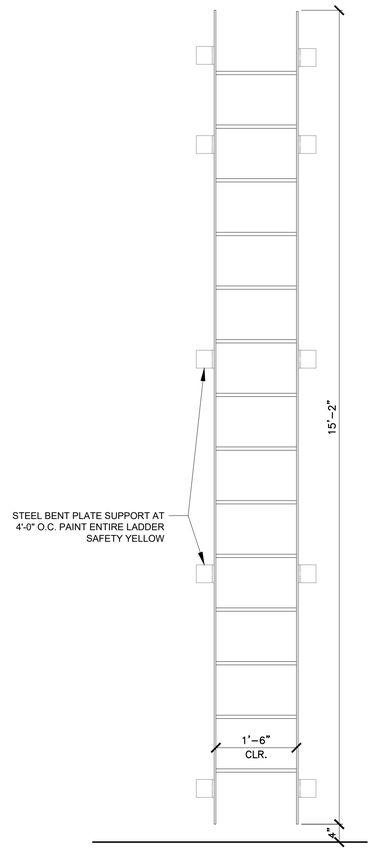
SHEET NO. A-305

BUILDING SECTION



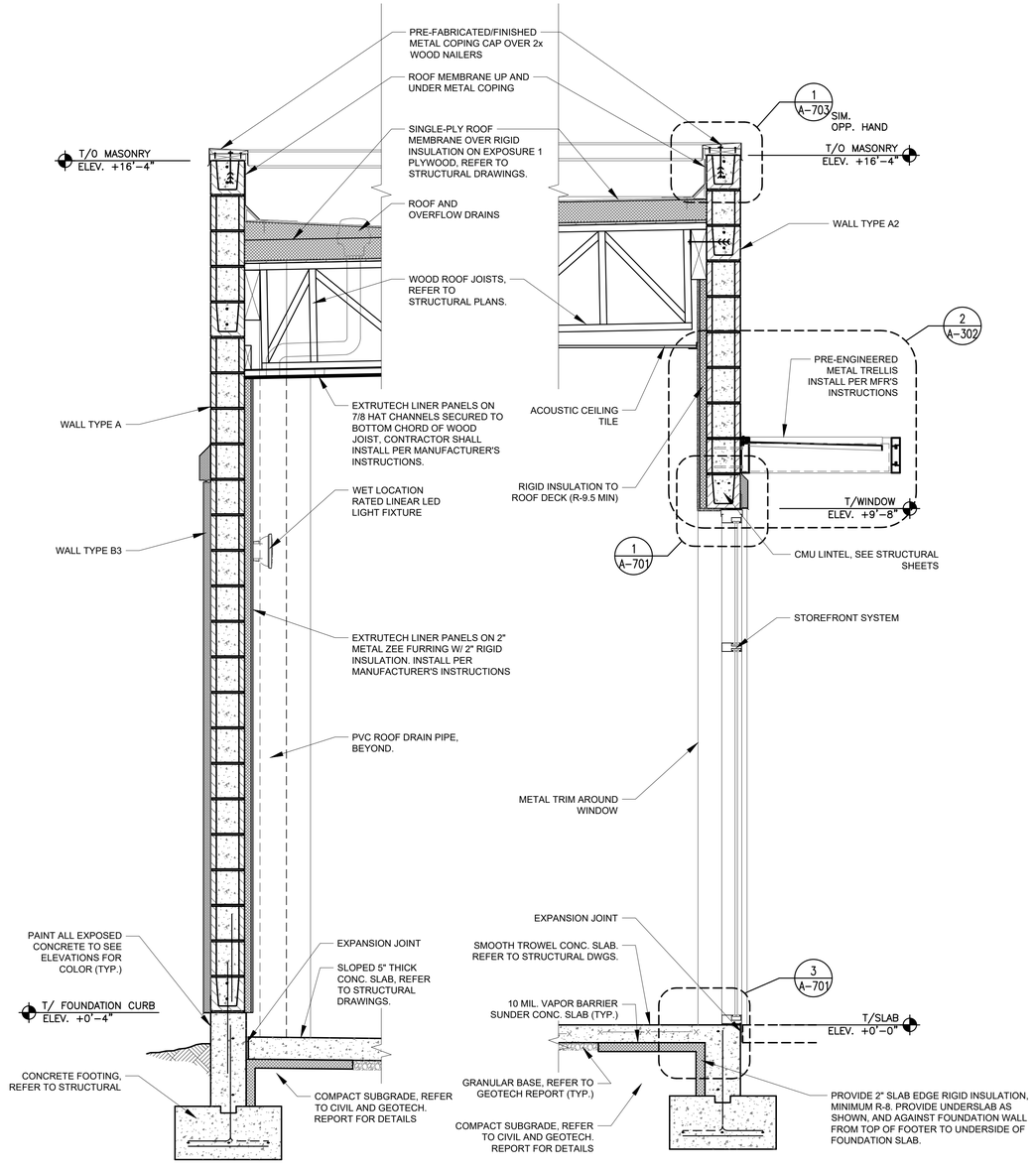
1 / A-306 SECTION AT ROOF ACCESS LADDER

SCALE: 3/4" = 1'-0"



2 / A-306 ELEVATION AT ROOF LADDER

SCALE: 3/4" = 1'-0"



3 / A-306 WALL SECTION AT TUNNEL

SCALE: 3/4" = 1'-0"

4 / A-306 WALL SECTION AT LOBBY

SCALE: 3/4" = 1'-0"

BY	DESCRIPTION	DATE	REV

REGISTERED ARCHITECT ALEX ADEKANMBI 044557 STATE OF NEW YORK

2/15/2023
DATE

PREPARED BY:
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PREPARED FOR:

SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

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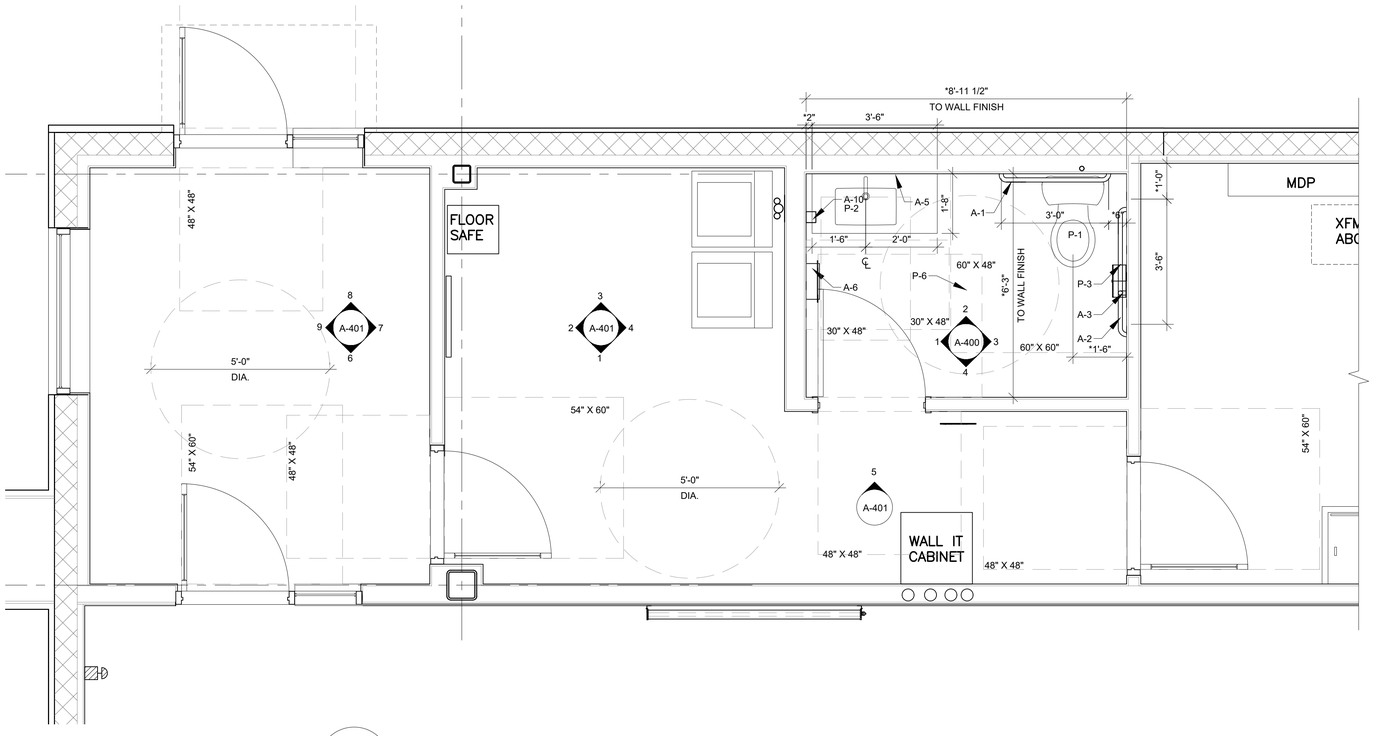
TITLE
MODWASH EXPRESS CARWASH

DESCRIPTION
8" CMU BEARING WALLS
WOOD TRUSS ROOF FRAMING
E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL
72' ACRYLIC PROTOTYPE W/120' CONVEYOR
FLEX ENTRANCE

SITE ADDRESS
5363 SOUTHWESTERN BOULEVARD
HAMBURG, NY

SITE ID
200890

SHEET NO.
A-306
BUILDING SECTION



6 A-400 LOBBY AND OFFICE PLAN VIEW
SCALE: 1/2" = 1'-0"

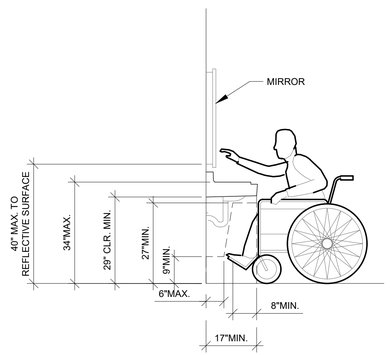
REST ROOM GENERAL NOTES:

1. WRAP & INSULATE ALL EXPOSED PIPES TO MEET ALL GOVERNING CODES.
2. REQUIRED DOOR CLEARANCES VARY BY APPROACH AND HARDWARE. VERIFY CLEARANCES ARE IN COMPLIANCE WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.
3. TOILET FLUSH CONTROLS SHALL BE INSTALLED IN ACCORDANCE WITH THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND SHALL NOT REQUIRE GRASPING, PINCHING OR TWISTING OF THE WRIST. CONTROLS FOR FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREAS, NO MORE THAN 44 INCHES ABOVE THE FLOOR.
4. SIGNAGE FOR RESTROOMS SHALL BE RAISED AND INCLUDE BRAILLE CHARACTERS AND PICTORIAL SYMBOLS. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ADJACENT TO THE LATCH SIDE OF THE DOOR, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. MOUNTING HEIGHT ABOVE FINISH FLOOR OR GROUND. TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER. 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.

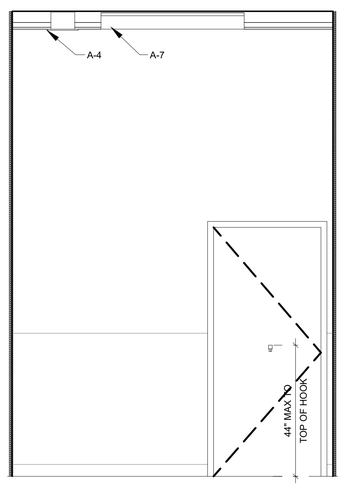


RESTROOM ACCESSORIES

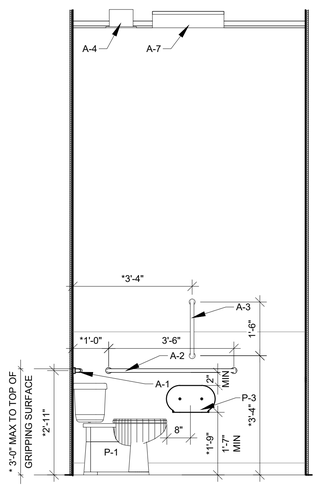
P-1	TOILET FIXTURE, REFER TO PLUMBING DRAWINGS
P-2	FORMICA 3460 CALACATTA MARBLE COUNTER WITH SINK, REFER TO PLUMBING DRAWINGS
P-3	TOILET TISSUE DISPENSER - ASI 0040 SURFACE MOUNTED TWIN TOILET TISSUE DISPENSER, 9" JUMBO ROLL. STAINLESS
P-4	MOP SINK FAUCET - DELTA FAUCET 28T9 28T, TWO HANDLE 8-INCH WALL-MOUNT SERVICE SINK FAUCET, CHROME
P-5	MOP SINK - ZURN Z1996-24 MOP SERVICE BASIN, 24" LENGTH, 24" WIDTH, 10" HEIGHT
P-6	FLOOR DRAIN, REFER TO PLUMBING DRAWINGS
WH	WATER HEATER - REFER TO MEP DRAWINGS
A-1	GRAB BARS, 3'-0" LONG, MOUNTED AT 35" A.F.F.
A-2	GRAB BARS, 3'-6" LONG, MOUNTED AT 35" A.F.F.
A-3	GRAB BARS, 1'-6" LONG, MOUNTED AT 40" A.F.F.
A-4	CEILING MOUNTED EXHAUST FAN, REFER TO MECHANICAL DRAWINGS
A-5	MIRROR ABOVE SINK - AMAZON BASICS RECTANGULAR WALL MIRROR 30"X40"
A-6	PAPER TOWEL DISPENSER - WALL MOUNT COMMERCIAL C-FOLD/MULTI-FOLD/TRI-FOLD, TOUCHLESS HAND TOWEL DISPENSER WITH LOCK, STAINLESS
A-7	LIGHT FIXTURE, REFER TO ELECTRICAL
A-8	WALL MOUNTED ADA SIGNAGE - APPROVED BY LOCAL FIRE MARSHAL, SEE NOTE 4
A-9	GATEHOUSE SATIN NICKEL GARMENT HOOK (2PACK)
A-10	SOAP DISPENSER- COMMERCIAL SOAP DISPENSER WALL MOUNT - STAINLESS STEEL WALL MOUNTED SOAP DISPENSER WITH PREMIUM ANTI-LEAK PUMP AND CORROSION-PROOF LINING - 37 OZ BY ENBATH



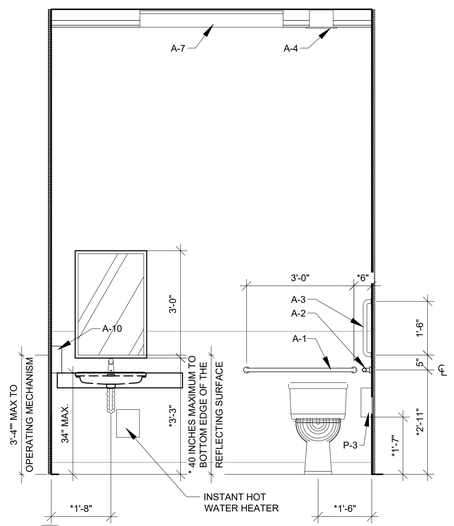
5 A-400 KNEE AND TOE CLEARANCES
SCALE: 1/2" = 1'-0"
* REQUIRED AT RESTROOM LAVATORY



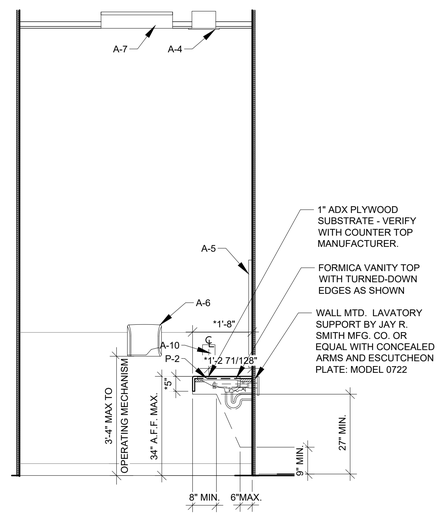
4 A-400 RESTROOM ELEVATION
SCALE: 1/2" = 1'-0"



3 A-400 RESTROOM ELEVATION
SCALE: 1/2" = 1'-0"



2 A-400 RESTROOM ELEVATION
SCALE: 1/2" = 1'-0"



1 A-400 RESTROOM ELEVATION
SCALE: 1/2" = 1'-0"

	BY	DESCRIPTION	DATE	REV

REGISTERED ARCHITECT
ALEX ADEKANMBI
044557
STATE OF NEW YORK
2/15/2023
DATE

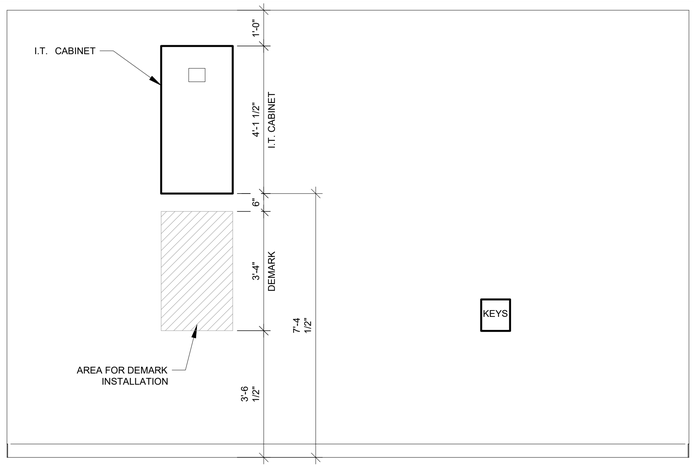
PREPARED BY:
ALEX ADEKANMBI, R.A.
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DULUTH, GEORGIA 30097
PHONE: (404) 747-9419

PREPARED FOR:
SITE
Hutton
REAL ESTATE DEVELOPMENT CONSTRUCTION

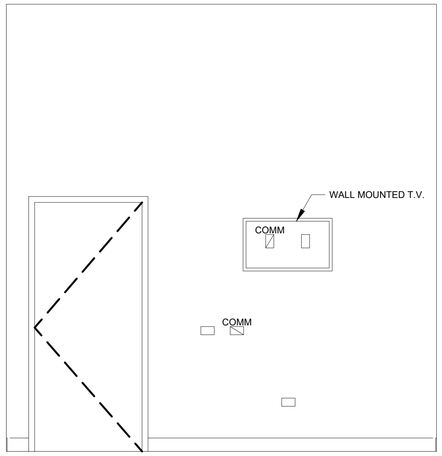
DRAWN BY	AC
REVIEWED BY	
PROJ. MGR.	BK
DATE ISSUED	02/10/23
SITE ADDRESS	5363 SOUTHWESTERN BOULEVARD HAMBURG, NY
SITE ID	200890

TITLE
MODWASH EXPRESS CARWASH
DESCRIPTION
8" CMU BEARING WALLS
WOOD TRUSS ROOF FRAMING
E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL
1 1/4" MEMBRANE PROTOTYPE W/120' CONVEYOR
FRONT ENTRANCE

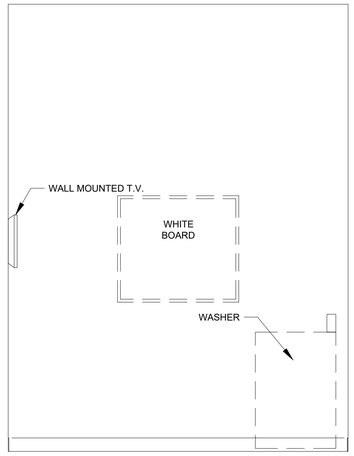
SHEET NO.
A-400
ENLARGED PLAN DETAILS



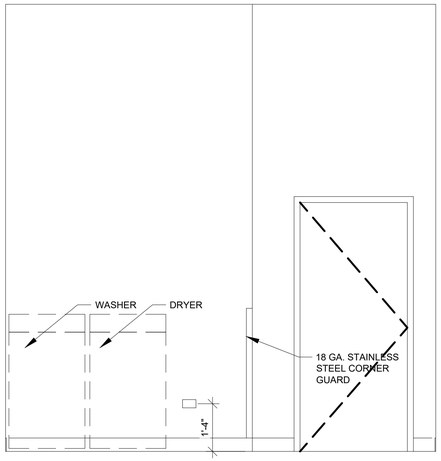
1 A-401 **ELEVATION @ BREAK ROOM**
SCALE: 1/2" = 1'-0" IT CABINET



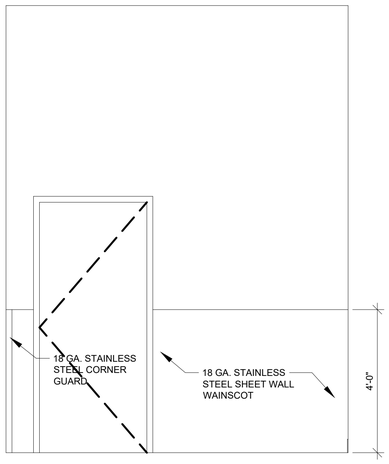
2 A-401 **ELEVATION @ BREAK ROOM**
SCALE: 1/2" = 1'-0" DOOR INTO OFFICE



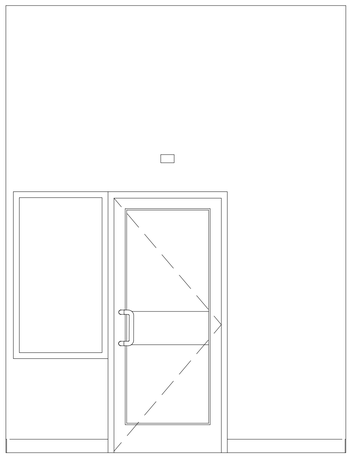
3 A-401 **ELEVATION @ BREAK ROOM**
SCALE: 1/2" = 1'-0" WASHER



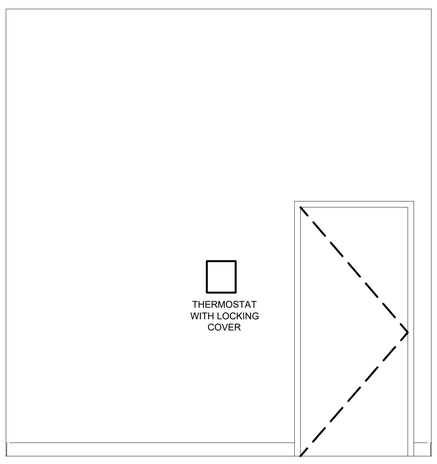
4 A-401 **ELEVATION @ BREAKROOM**
SCALE: 1/2" = 1'-0" WASHER/DRYER



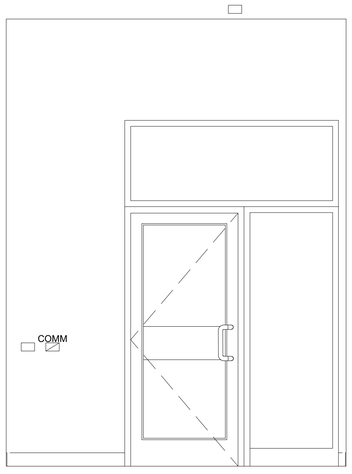
5 A-401 **ELEVATION @ BREAK ROOM**
SCALE: 1/2" = 1'-0" DOOR INTO RESTROOM



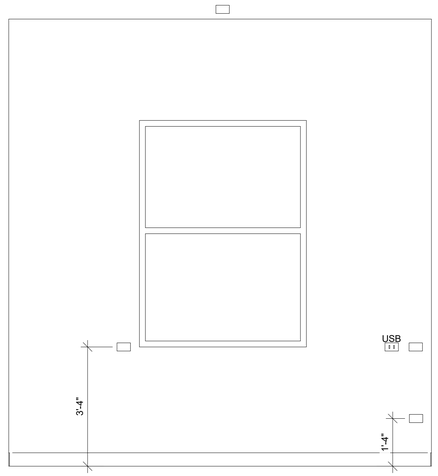
6 A-401 **ELEVATION @ HALL**
SCALE: 1/2" = 1'-0" DOOR INTO TUNNEL



7 A-401 **ELEVATION @ OFFICE**
SCALE: 1/2" = 1'-0" DOOR INTO BREAKROOM



8 A-401 **ELEVATION @ OFFICE**
SCALE: 1/2" = 1'-0" ENTRY DOOR INTO OFFICE



9 A-401 **ELEVATION @ OFFICE**
SCALE: 1/2" = 1'-0" WINDOW

ELECTRICAL SYMBOL LEGEND

	DUPLEX RECEPTACLE
	QUADPLEX RECEPTACLE
USB	USB CHARGER RECEPTACLE
COMM	DATA / COMMUNICATIONS RECEPTACLE

NOTES:
- MINIMUM REQUIRED SPACING BETWEEN ELECTRICAL CONVENIENCE OUTLET BOXES AND LOW VOLTAGE COMMUNICATIONS OUTLET BOXES IS 9".
- REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION

NO.	DESCRIPTION	DATE	BY

REGISTERED ARCHITECT ALEX ADEKANMBI 044557 STATE OF NEW YORK
2/15/2023
DATE

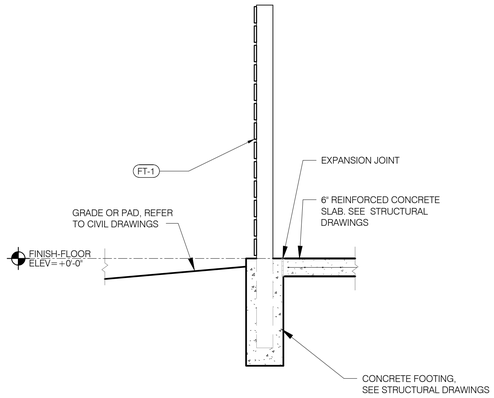
PREPARED BY:
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DULUTH, GEORGIA 30097
PHONE: (404) 747-9419

PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

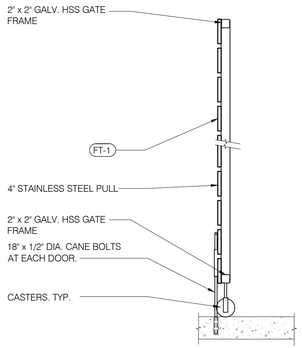
DRAWN BY: AC
REVIEWED BY:
PROJ. MGR.: BK
DATE ISSUED: 02/10/23

TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION:
8" CMU BEARING WALLS
WOOD TRUSS ROOF FRAMING
E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL
TUNNEL KITCHEN PROTOTYPE W/120' CONVEYOR
FRONT ENTRANCE
SITE ID: 200890
SITE ADDRESS: 5363 SOUTHWESTERN BOULEVARD HAMBURG, NY

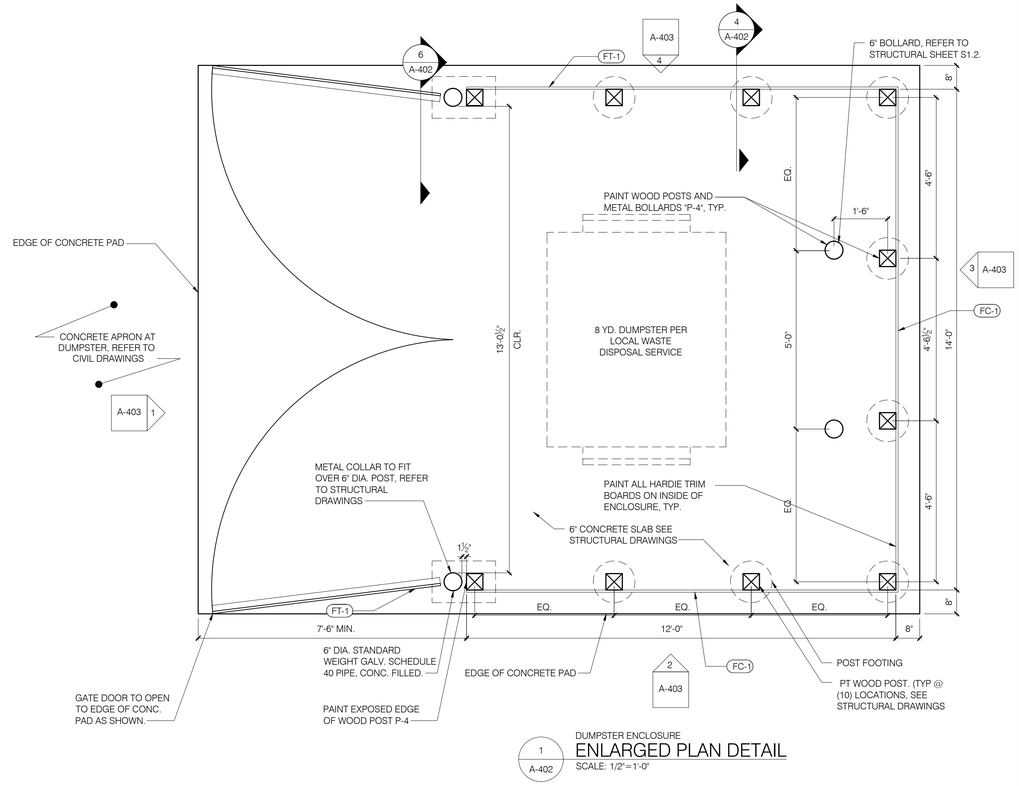
SHEET NO. A-401
INTERIOR ELEVATIONS



4 A-402 DUMPSTER ENCLOSURE
SECTION DETAIL
SCALE: 1/2"=1'-0"



6 A-402 DUMPSTER ENCLOSURE
SECTION DETAIL
SCALE: 1/2"=1'-0"



1 A-402 DUMPSTER ENCLOSURE
ENLARGED PLAN DETAIL
SCALE: 1/2"=1'-0"

7 A-402 DUMPSTER ENCLOSURE
ENLARGED PLAN DETAIL
SCALE: 1/2"=1'-0"

EXTERIOR FINISH SCHEDULE

MARK	CATEGORY	MANUF.	DESCRIPTION
EF-1	EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)	SENERGY (OR EQUAL)	CHANNELED ADHESIVE CI DESIGN, FINE FINISH, COLOR TO MATCH: PPG, 1243-5 "BLUE DART"
EF-2	EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)	SENERGY (OR EQUAL)	CHANNELED ADHESIVE CI DESIGN, FINE FINISH, COLOR TO MATCH: PPG 1025-1 "COMMERCIAL WHITE"
FC-1	HARDIE BOARD	JAMES HARDIE™ OR APPROVED EQUAL	HARDIEPANEL VERTICAL SMOOTH SIDING OR APPROVED ALTERNATE, COLOR TO MATCH: PPG 1025-1 "COMMERCIAL WHITE" SEMI-GLOSS FINISH
FT-1	TRIM BOARDS	JAMES HARDIE™ OR APPROVED EQUAL	HARDIETRIM® BOARDS 3/4 x 5-1/2" SMOOTH x VARYING LENGTHS OR APPROVED ALTERNATE, COLOR TO MATCH:
			PPG 1244-4 "BOUDOIR BLUE" SEMI-GLOSS FINISH
			PPG 1243-5 "BLUE DART" SEMI-GLOSS FINISH
			PPG 1243-7 RAINBOW BRIGHT" SEMI-GLOSS FINISH
M-1	METAL	PAC-CLAD	
M-2	METAL	PAC-CLAD	AWNING COLOR: TO MATCH P-4 "BLUE DART" SEMI-GLOSS FINISH
M-3	METAL	PAC-CLAD	METAL COPING, COLOR: "BONE-WHITE"
P-1	PAINT	PPG	PPG 1025-1 "COMMERCIAL WHITE" SEMI-GLOSS FINISH
P-2	PAINT	PPG	PPG 1025-1 "COMMERCIAL WHITE" SEMI-GLOSS FINISH
P-4	PAINT	PPG	PPG 1243-5 "BLUE DART" SEMI-GLOSS FINISH
PB-1	8" SMOOTH FACE SCORED CMU	T.B.D.	8" SMOOTH FACE SCORED CMU w/ ARGOS "TYPE-N GRAY" MORTAR, TOOLED JOINTS. PAINT COLOR PPG 1025-1 "COMMERCIAL WHITE" SEMI-GLOSS FINISH
SF-1	STOREFRONT	YKK	ALUMINUM STOREFRONT SYSTEM w/ TEMPERED CLEAR GLAZING, COLOR: CLEAR ANODIZED ALUMINUM

BY	DESCRIPTION	DATE	REV

REGISTERED ARCHITECT ALEX ADEKANMBI 044557 STATE OF NEW YORK

2/15/2023
DATE

PREPARED BY:
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PHONE: (404) 747-9419

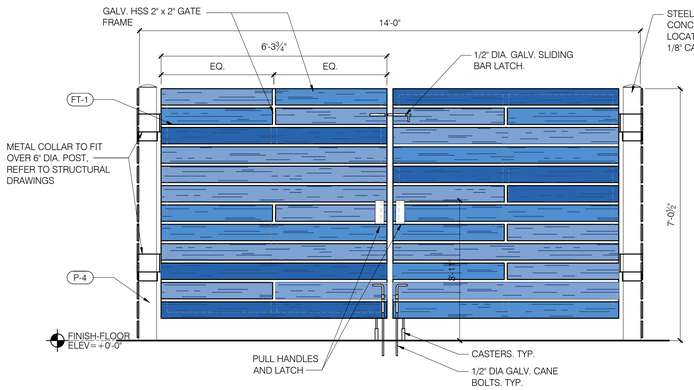
PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY AC
REVIEWED BY BK
PROJ. MGR.
DATE ISSUED 02/10/23

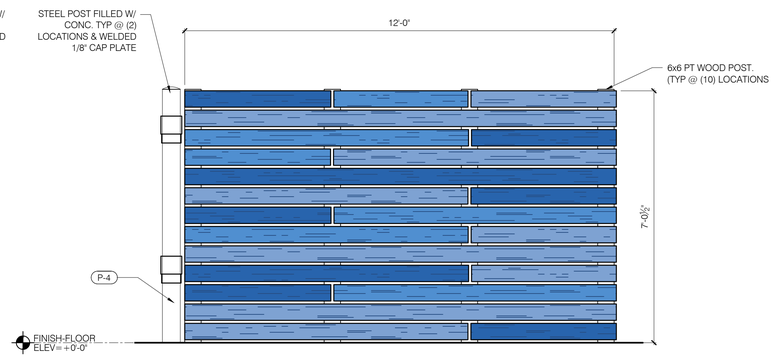
TITLE MODWASH EXPRESS CARWASH
DESCRIPTION
8" CMU BEARING WALLS
WOOD TRUSS ROOF FRAMING
E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL
72' X 40' CANOPY PROTOTYPE W/120' CONVEYOR
FIN AT ENTRANCE

SITE ADDRESS 5363 SOUTHWESTERN BOULEVARD
HAMBURG, NY
SITE ID 200880

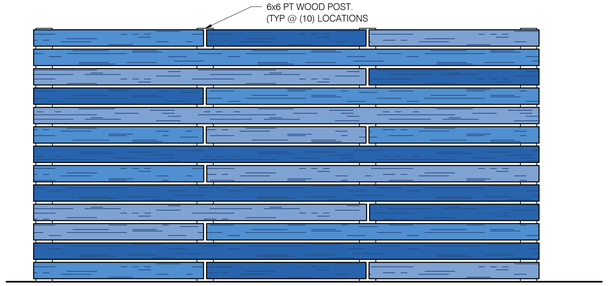
SHEET NO. A–402
DUMPSTER DETAILS



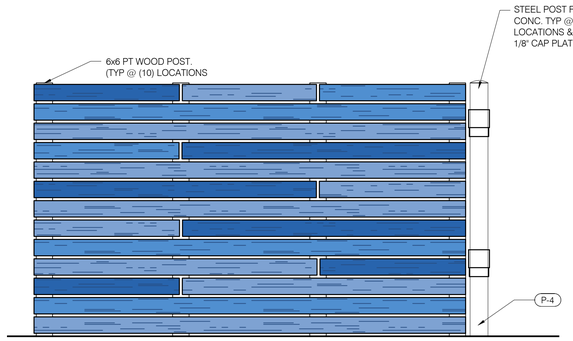
1 A-403 DUMPSTER ENCLOSURE
FRONT ELEVATION
SCALE: 1/2" = 1'-0"



2 A-403 DUMPSTER ENCLOSURE
SIDE ELEVATION
SCALE: 1/2" = 1'-0"



3 A-403 DUMPSTER ENCLOSURE
BACK ELEVATION
SCALE: 1/2" = 1'-0"



4 A-403 DUMPSTER ENCLOSURE
SIDE ELEVATION
SCALE: 1/2" = 1'-0"

EXTERIOR FINISH SCHEDULE

MARK	CATEGORY	MANUF.	DESCRIPTION
EF-1	EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)	SENERGY (OR EQUAL)	CHANNELED ADHESIVE CI DESIGN, FINE FINISH, COLOR TO MATCH: PPG, 1243-5 "BLUE DART"
EF-2	EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)	SENERGY (OR EQUAL)	CHANNELED ADHESIVE CI DESIGN, FINE FINISH, COLOR TO MATCH: PPG 1025-1 "COMMERCIAL WHITE"
FC-1	HARDIE BOARD	JAMES HARDIE™ OR APPROVED EQUAL	HARDIEPANEL VERTICAL SMOOTH SIDING OR APPROVED ALTERNATE, COLOR TO MATCH: PPG 1025-1 "COMMERCIAL WHITE" SEMI-GLOSS FINISH
FT-1	TRIM BOARDS	JAMES HARDIE™ OR APPROVED EQUAL	HARDIETRIM® BOARDS 3/4 x 5-1/2" SMOOTH x VARYING LENGTHS OR APPROVED ALTERNATE, COLOR TO MATCH:
			PPG 1244-4 "BOUDOIR BLUE" SEMI-GLOSS FINISH
			PPG 1243-5 "BLUE DART" SEMI-GLOSS FINISH
			PPG 1243-7 RAINBOW BRIGHT" SEMI-GLOSS FINISH
M-1	METAL	PAC-CLAD	
M-2	METAL	PAC-CLAD	AWNING COLOR: TO MATCH P-4 "BLUE DART" SEMI-GLOSS FINISH
M-3	METAL	PAC-CLAD	METAL COPING, COLOR: "BONE-WHITE"
P-1	PAINT	PPG	PPG 1025-1 "COMMERCIAL WHITE" SEMI-GLOSS FINISH
P-2	PAINT	PPG	PPG 1025-1 "COMMERCIAL WHITE" SEMI-GLOSS FINISH
P-4	PAINT	PPG	PPG 1243-5 "BLUE DART" SEMI-GLOSS FINISH
PB-1	8" SMOOTH FACE SCORED CMU	T.B.D.	8" SMOOTH FACE SCORED CMU w/ ARGOS "TYPE-N GRAY" MORTAR, TOOLED JOINTS. PAINT COLOR PPG 1025-1 "COMMERCIAL WHITE" SEMI-GLOSS FINISH
SF-1	STOREFRONT	YKK	ALUMINUM STOREFRONT SYSTEM w/ TEMPERED CLEAR GLAZING, COLOR: CLEAR ANODIZED ALUMINUM

BY	DESCRIPTION	DATE	REV

REGISTERED ARCHITECT ALEX ADEKANMBI 044557 STATE OF NEW YORK
2/15/2023
DATE

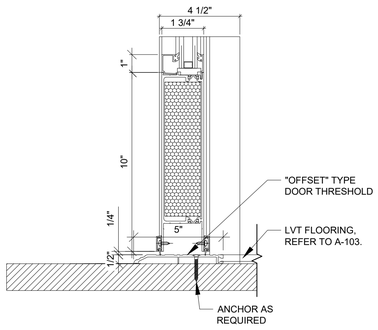
PREPARED BY:
ALEX ADEKANMBI, R.A.
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DULUTH, GEORGIA 30097
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PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

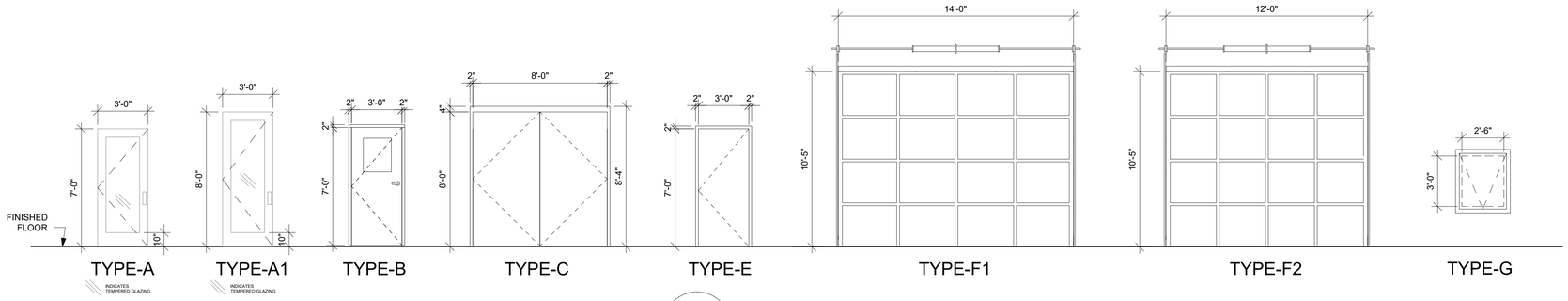
DRAWN BY	AC
REVIEWED BY	BK
PROJ. MGR.	
DATE ISSUED	02/10/23

TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION: 8" CMU BEARING WALLS; WOOD TRUSS ROOF FRAMING; E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL; 124' KRITZER PROTOTYPE W/120' CONVEYOR; FRONT ENTRANCE
SITE ADDRESS: 5363 SOUTHWESTERN BOULEVARD HAMBURG, NY
SITE ID: 200890

SHEET NO. A–403
DUMPSTER ELEVATIONS



7 A-601 **STOREFRONT DOOR THRESHOLD**
SCALE: 3" = 1'-0"



8 A-601 **DOOR TYPES**
SCALE: 1/4" = 1'-0"

DOOR HARDWARE

SET-1	SINGLE PIVOTS 1 LOCK SET STOREFRONT ENTRY; THUMB LATCH & FLUSH BOLT 1 DOOR STOP INTEGRAL CLOSER STOP W/ WIND RESTRAINT 1 DOOR SWING PUSH / PULL HANDLE 1 CLOSER PUSH SIDE 1 FULL SADDLE DOOR THRESHOLD
SET-2	1.5 PR. HINGES REMOVABLE HINGE 1 LOCK SET OFFICE SET 1 DOOR STOP WALL MOUNTED BUMPER 1 DOOR SWING PUSH / PULL HANDLE 1 CLOSER PULL SIDE
SET-3	1.5 PR. HINGES REMOVABLE PIN 1 LOCK SET CLASSROOM SET. SCHLAGE AL70 (OR APPROVED EQUAL) 1 ONE-SIDED DEADBOLT WITH INDICATOR. SCHLAGE B571 (OR APPROVED EQUAL) 1 DOOR STOP INTEGRAL CLOSER STOP 1 CLOSER PULL SIDE
SET-4	SINGLE PIVOT 1 LOCKET, PASSAGE SET 1 DOOR STOP INTEGRAL CLOSER STOP W/ WIND RESTRAINT 1 DOOR SWING PUSH / PULL HANDLE 1 CLOSER PUSH SIDE
SET-5	1.5 PR. HINGES NON REMOVABLE PIN 1 FLIP DOWN DOOR STOP 1 CLOSER VON DUPRIN RIM EXIT DEVICE (PANIC BAR) WITH PASSAGE LEVER - SEE CUT SHEET ON SHEET A-602 OR OTHER PANIC BAR HARDWARE PROVIDE BY STOREFRONT MANUFACTURER. WEATHERSTRIP 1 FULL SADDLE DOOR THRESHOLD
SET-6	3 PR. HINGES NON REMOVABLE PIN 1 LOCK SET, ENTRY SET 2 FLIP DOWN DOOR STOP AND CLOSER STOP W/ WIND RESTRAINT 1 CLOSER (ACTIVE LEAF) WEATHERSTRIP & THRESHOLD 1 PR. FLUSH BOLTS (INACTIVE LEAF) 1 FULL-SADDLE DOOR THRESHOLD
SET-7	1.5 PR. HINGES REMOVABLE PIN 1 LOCK SET OFFICE SET 1 DOOR STOP INTEGRAL CLOSER STOP W/ WIND RESTRAINT 1 CLOSER PULL SIDE WEATHERSTRIP & THRESHOLD
SET-8	1 LOCK SET CHAIN HOIST AND LOCK EXPANDED NEOPRENE RUBBER GASKET ON BOTTOM OF ENTRY TUNNEL DOOR
SET-9	FACTORY LOCKING ROOF HATCH HARDWARE
SET-10	SINGLE PIVOT 1 LOCK SET OFFICE SET 1 DOOR STOP INTEGRAL CLOSER STOP W/ WIND RESTRAINT 1 DOOR SWING PUSH / PULL HANDLE 1 CLOSER PUSH SIDE 1 FULL SADDLE DOOR THRESHOLD
SET-11	SINGLE PIVOT 1 LOCK SET STOREFRONT ENTRY; THUMB LATCH & FLUSH BOLT 1 DOOR STOP INTEGRAL CLOSER STOP W/ WIND RESTRAINT 1 DOOR SWING PUSH / PULL HANDLE 1 CLOSER PUSH SIDE 1 FULL SADDLE DOOR THRESHOLD

DOOR SCHEDULE

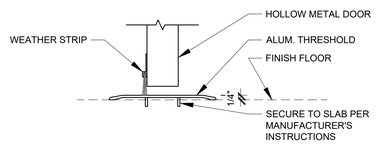
Type Mark	DESCRIPTION	DOOR TYPE	FINISH	FRAME MATERIAL	FRAME FINISH	THICKNESS	HEIGHT	WIDTH	HARD WARE	COMMENTS
1, 1A, & 1B	ALUM/GLASS STOREFRONT DOOR	TYPE-A	CLEAR ANODIZED ALUMINUM	ALUMINUM	CLEAR ANODIZED	0' - 1 3/4"	7' - 0"	3' - 0"	SET-1	SEE NOTES 1, 2, 3, 4, 6, 9
2	NOT USED									
3	INSULATED HOLLOW METAL DOOR	TYPE-C	PAINT	H.M./ A60	PAINT	0' - 1 3/4"	8' - 0"	8' - 0"	SET-6	SEE NOTES 1, 2, 3, 4, 6, 9, 10
4	EXTRUTECH ALL WEATHER PVC DOOR	TYPE-B	FACTORY FINISH	PVC	FACTORY FINISH	0' - 1 3/4"	7' - 0"	3' - 0"	SET-7	SEE NOTES 1, 2, 3, 4, 6, 9 , 10. 13
5	NOT USED									
6	ALUM/GLASS STOREFRONT DOOR	TYPE-A1	CLEAR ANODIZED ALUMINUM	ALUMINUM	CLEAR ANODIZED	0' - 1 3/4"	8' - 0"	3' - 0"	SET-5	SEE NOTES 1, 2, 3, 4, 6, 9
7A	SECTIONAL OVERHEAD DOOR	TYPE-F2	CLEAR POLYCARBONATE	ALUMINUM	CLEAR ANODIZED	0' - 2"	10' - 5"±	12' - 0"	SET-8	SEE NOTES: 12
7B	SECTIONAL OVERHEAD DOOR	TYPE-F1	CLEAR POLYCARBONATE	ALUMINUM	CLEAR ANODIZED	0' - 2"	10' - 5"±	14' - 0"	SET-8	SEE NOTES: 11
8	HOLLOW METAL DOOR	TYPE-E	PAINT	FACTORY	PAINT	0' - 1 3/4"	7' - 0"	3' - 0"	SET-3	SEE NOTES: 1, 2, 3, 4, 6, 9, 10
9	ALUM/GLASS STOREFRONT DOOR	TYPE-A	CLEAR ANODIZED ALUMINUM	ALUMINUM	CLEAR ANODIZED	0' - 1 3/4"	7' - 0"	3' - 0"	SET-4	SEE NOTES: 1, 2, 3, 4, 6, 9
10	ALUM/GLASS STOREFRONT DOOR	TYPE-A	CLEAR ANODIZED ALUMINUM	ALUMINUM	CLEAR ANODIZED	0' - 1 3/4"	7' - 0"	3' - 0"	SET-10	SEE NOTES: 1, 2, 3, 4, 6, 9
11	ALUM/GLASS STOREFRONT DOOR	TYPE-A1	CLEAR ANODIZED ALUMINUM	ALUMINUM	CLEAR ANODIZED	0' - 1 3/4"	8' - 0"	3' - 0"	SET-11	SEE NOTES 1, 2, 3, 4, 6, 9

DOOR SCHEDULE NOTES:

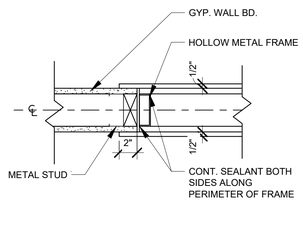
1. THRESHOLDS SHALL BE NO HIGHER THAN 1/2" AFF, EDGE TO BE BEVELED WITH A SLOPE NO GREATER THAN 1 IN 2.
2. ALONG ACCESSIBLE PATH OF TRAVEL AND AT EGRESS CONDITIONS, DOOR HARDWARE SHALL BE OF THE LEVER OR PUSH TYPE, MOUNTED 30" TO 44" AFF AND OPERABLE
3. PROVIDE 18" CLEAR SPACE ON STRIKE/PULL SIDE OF DOORS. PROVIDE 12" CLEAR SPACE ON STRIKE/PUSH SIDE OF DOORS WITH LATCHES AND/OR CLOSERS.
4. EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, TOOL, OR SPECIAL KNOWLEDGE OR EFFORT.
5. CONTRACTOR SHALL INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
6. SEE DETAILS 1, 4, AND 7/A-601 FOR DOOR THRESHOLD DETAILS.
7. NOT USED.
8. NOT USED.
9. SCHLAGE MORTISE CYLINDERS, KEYED TO MASTER, REQUEST SPECIFIC CUT FROM OWNER
10. GALVANIZED DOOR FRAME
11. OVERHEAD DOOR ON ENTRANCE SIDE TO BE FROM BAYWATCH DOORS, CLEAR POLYCARBONATE DOOR WITH MANUAL PULL CHAIN HOIST OPERATION.
12. OVERHEAD DOOR ON EXIT SIDE TO BE FROM BAYWATCH DOORS, DUAL DOOR SYSTEM. POLYCARBONATE DOOR ON THE EXTERIOR AND VINYL ROLL UP DOOR ON INTERIOR. WHITE FINISH, CLEAR POLYCARBONATE, WITH MANUAL PULL CHAIN HOIST OPERATION ON BAYWATCH POLYCARBONATE DOOR AND HIGH SPEED MOTOR ON VINYL ROLL UP DOOR.
13. FROM EXTRUTECH PLASTICS INC. WWW.PLASTICS.EPIPLASTICS.COM

6 A-601 **NOT USED**
SCALE:

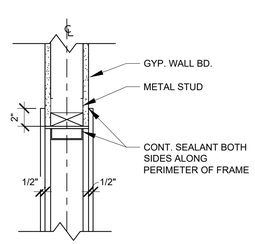
5 A-601 **NOT USED**
SCALE:



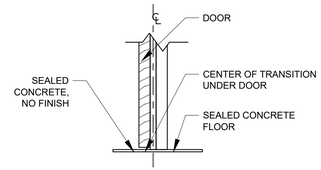
4 A-601 **DETAIL AT METAL THRESHOLD**
SCALE: 3" = 1'-0"



3 A-601 **DETAIL AT JAMB**
SCALE: 1 1/2" = 1'-0"



2 A-601 **DETAIL AT HEAD JAMB**
SCALE: 1 1/2" = 1'-0"



1 A-601 **DETAIL AT THRESHOLD**
SCALE: 1 1/2" = 1'-0"

BY	
DESCRIPTION	
DATE	
REV	

REGISTERED ARCHITECT ALEX ADEKANMBI 044557 STATE OF NEW YORK
2/15/2023
DATE

PREPARED BY:

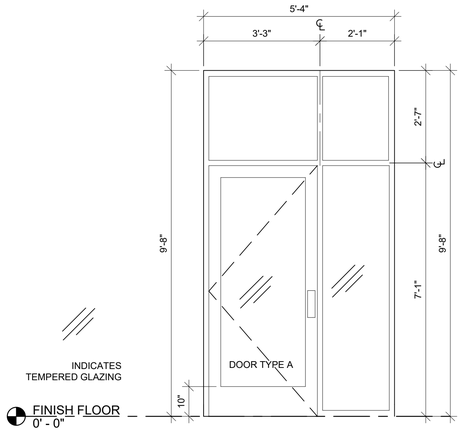
ALEX ADEKANMBI, R.A.
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PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

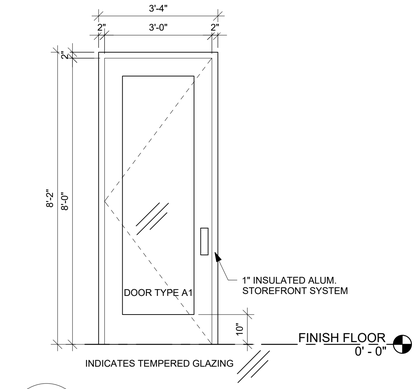
DRAWN BY	AC
REVIEWED BY	BK
PROJ. MGR.	
DATE ISSUED	02/10/23

TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION: 8" CMU BEARING WALLS WOOD TRUSS ROOF FRAMING E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL 24' X 40' MODEL PROTOTYPE W/120' CONVEYOR FM AT ENTRANCE
SITE ADDRESS: 5363 SOUTHWESTERN BOULEVARD HAMBURG, NY
SITE ID: 200980

SHEET NO. A-601
DOOR SCH. & DETAILS



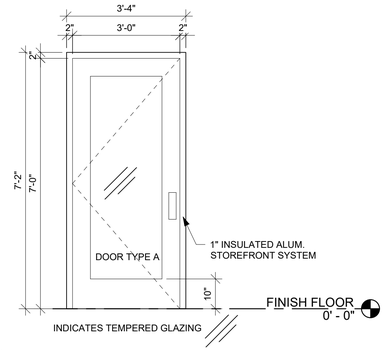
7 A-602 STOREFRONT TYPE 'J'
SCALE: 1/2" = 1'-0"



6 A-602 STOREFRONT TYPE 'H'
SCALE: 1/2" = 1'-0"

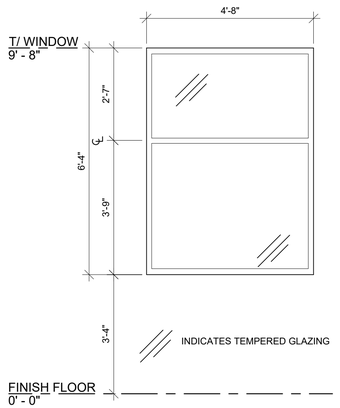
WINDOW/ STOREFRONT ASSEMBLY GENERAL NOTES:

ALL WINDOW ASSEMBLIES MUST HAVE THE FOLLOWING VALUES IN ACCORDANCE WITH N.F.R.C.: U-VALUE OF 0.28 OR BETTER, AND SHGC OF 0.25 OR BETTER.

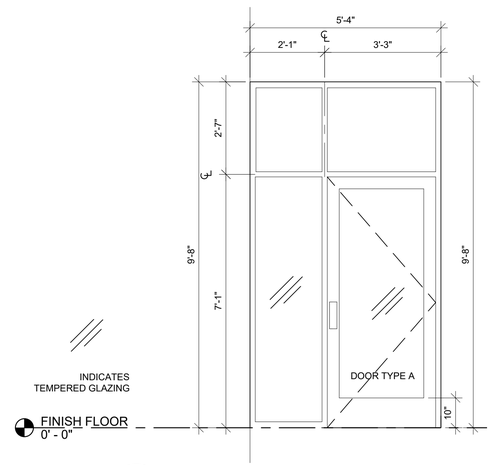


5 A-602 STOREFRONT TYPE 'G'
SCALE: 1/2" = 1'-0"

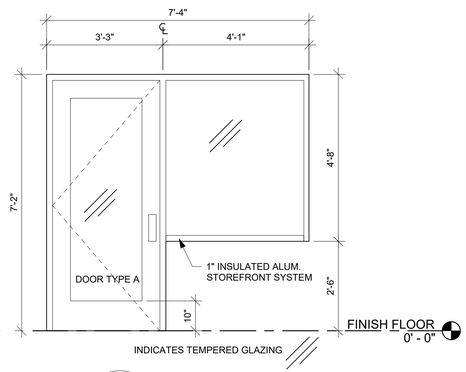
4 A-602 NOT USED
SCALE: 1/2" = 1'-0"



3 A-602 STOREFRONT TYPE 'C'
SCALE: 1/2" = 1'-0"



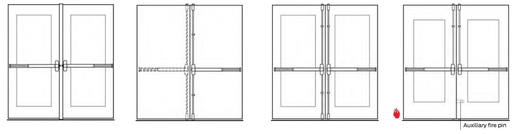
2 A-602 STOREFRONT TYPE 'B'
SCALE: 1/2" = 1'-0"



1 A-602 STOREFRONT TYPE 'A'
SCALE: 1/2" = 1'-0"

Popular double door applications

Double door applications



Two rim devices with mullion—same direction, panic or fire device

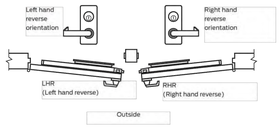
Two vertical rods—double egress, panic or fire device (LBR-F device can be used on double-egress)

Two surface mounted vertical rod devices—same direction (do not use with overlapping astragal)

Two FEH verticle rods with auxiliary fire pin-LBR option (Don't use overlapping astragal on pair swinging same direction)

Auxiliary fire pin

Door handing



Outside trim operation

Standard trim

Features

- Bi directional lever rotation
- Field reversible handing

Lever trim operation



Standard operation
Key locks and unlocks lever.



Blank escutcheon
Lever always active. BE suffix, e.g., 230L-BE.

22 Rim exit device

22 Rim exit device



22 Rim exit device for all types of single and double doors with mullion, UL listed for Panic Exit Hardware. Devices are ANSI A156.3, 2008 Grade 1. Covers stock hollow metal doors with 161* cutouts. Fits door stiles as narrow as 3 9/16" (97 mm). The device is non-handed.

Finishes – SP28 & SP313.

*Not applicable with all strike and mullion combinations, consult factory.



The 299 Strike
ships standard, optional strikes available

Hex key dogging comes standard on 22 Rim exit device



Specifications

Device functions	Ships ready for all functions, EO, DT, NL, TP, K, L
Device lengths	3' (914 mm) see minimum door opening chart at bottom of page 4' (1219 mm) see minimum door opening chart at bottom of page
Device centerline from finished floor	39 7/8" (1011 mm) 39 7/16" (1008 mm) with mullion
Center case dimensions	4 1/4" (108 mm) x 1 13/16" (41 mm) x 2 1/16" (60 mm)
Mechanism case dimensions	2" (51 mm) x 3 3/4" (95 mm)
Projection push bar	Push bar neutral - 3 3/4" (95 mm) push bar depressed - 3" (76 mm)
Latch bolt	Deadlocking, 3/4" (19 mm) throw
Fasteners & sex bolts (SNB)	Includes 1 3/4" (44 mm) and 2 1/4" (57 mm) wood & metal doors optional SNB available for device
Electric options	**LX** latchbolt monitor switch **RX** pushpad monitor switch **RX2** double pushpad monitor switch **ALK** alarm exit kit **CON** Allegion Connect
Mechanical options	**GBK** glass bead kit **AX** accessible device
Dogging feature	Hex key dogging standard
Dogging options	**LD** less dogging
Strikes	299 – Dull black

Minimum door opening chart

Stop height	Strike	Single door	Double door w/mullion	Minimum door opening for 3' device*	Minimum door opening w/ALK*
1/2"	299	Yes	—	26.500" (673mm)	33.250" (845mm)
1/2"	1439	Yes	—	25.687" (652mm)	32.437" (824mm)
1/2"	299	—	4754/4854/4954	27.000" (686mm)	33.750" (857mm)
1/2"	299	—	5654	25.812" (656mm)	32.562"(827mm)
1/2"	1408	—	5754	25.750" (679mm)	32.500" (826mm)
1/2"	1606	—	1654	26.562" (675mm)	33.312" (846mm)
9/16"	299	Yes	—	26.750" (679mm)	33.500"(851mm)
1/4"	1439	Yes	—	25.937" (659mm)	32.687" (830mm)
9/16"	299	—	4754/4854/4954	27.125" (689mm)	33.875" (860mm)
9/16"	299	—	5654	26.687" (678mm)	33.437" (849mm)
9/16"	1408	—	5754	25.875" (657mm)	32.625" (829mm)
9/16"	1606	—	1654	26.687" (678mm)	33.437" (849mm)

*For 4' device, add 6" (152mm)

AX
Accessible device
- UL certified to meet new 5 lb. maximum operating force requirement
- Exceeds ANSI/ BHMA requirements

RX
Pushpad monitor switch
- Signals use of an opening
- SPDT switch to monitor pushpad

RX2
Double pushpad monitor switch
- Uses two RX switches

ALK
Alarm exit kit
- Unauthorized opening triggers 85-decibel horn
- Set in armed or disarmed mode by key

LX
Latchbolt monitor switch
- Signals use of opening
- SPDT Switch to monitor latchbolt

CON
Allegion Connectors
- Common connectors to connect various door hardware all the way to the power supply

BY	DESCRIPTION

REV	DATE

REGISTERED ARCHITECT
ALEX ADEKANMBI
044557
STATE OF NEW YORK
2/15/2023
DATE

PREPARED BY:
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PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY	REVIEWED BY
AC	

PROJ. MGR.	DATE ISSUED
BK	02/10/23

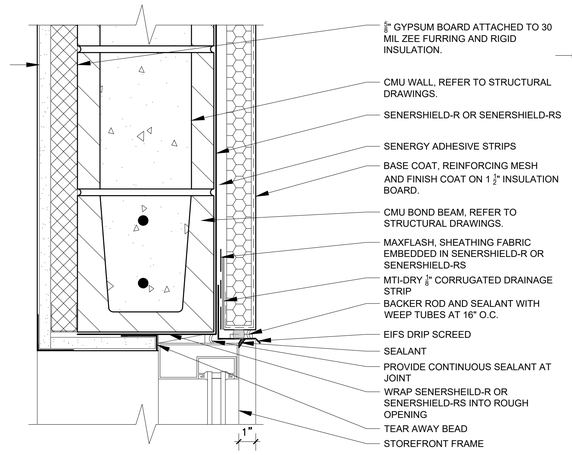
TITLE
MODWASH EXPRESS CARWASH

DESCRIPTION
8" CMU BEARING WALLS
WOOD TRUSS ROOF FRAMING
E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL
12'-0" ALUMINUM PROTOTYPE W/120' CONVEYOR EXIT AT ENTRANCE

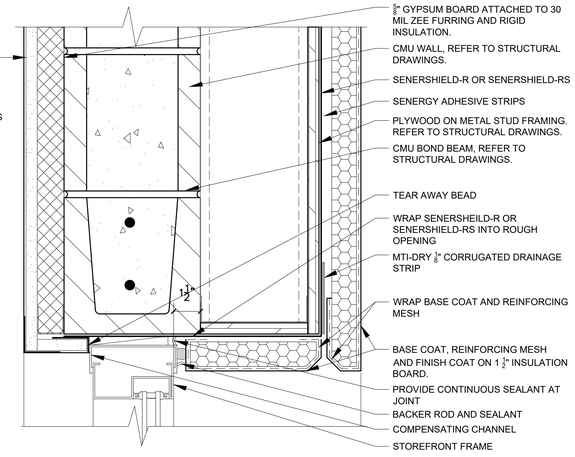
SITE ID 200890

SITE ADDRESS 5363 SOUTHWESTERN BOULEVARD HAMBURG, NY

SHEET NO. A-602
WINDOW & CASEWORK

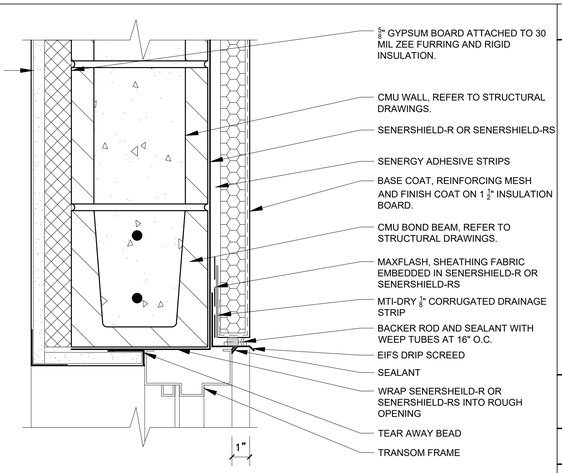


1 A-701 **SECTION @ STOREFRONT HEADER**
3"=1'-0"



4 A-701 **SECTION @ LOBBY WINDOW HEADER**
3"=1'-0"

7 A-701 **NOT USED**
3"=1'-0"



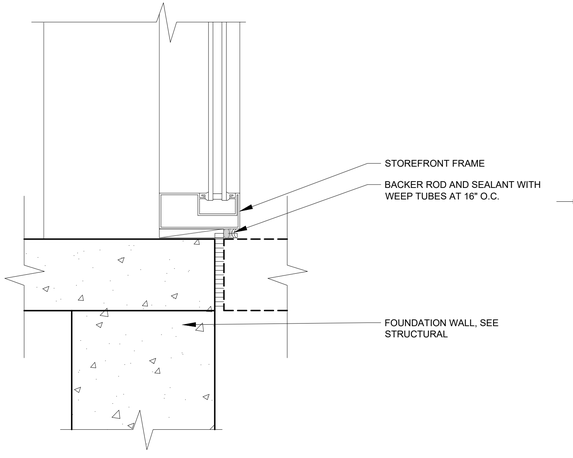
10 A-701 **SECTION @ HOLLOW METAL WINDOW HEADER**
3"=1'-0"

2 A-701 **SECTION @ STOREFRONT JAMB**
3"=1'-0"

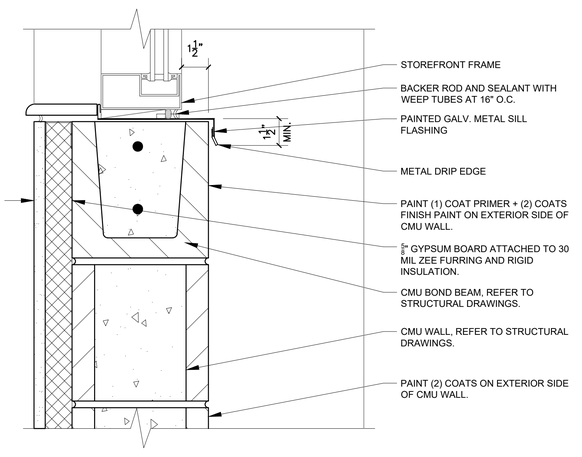
5 A-701 **SECTION @ LOBBY WINDOW JAMB**
3"=1'-0"

8 A-701 **NOT USED**
3"=1'-0"

11 A-701 **SECTION @ HOLLOW METAL DOOR JAMB**
3"=1'-0"



3 A-701 **SECTION @ STOREFRONT SILL**
3"=1'-0"



6 A-701 **SECTION @ LOBBY WINDOW SILL**
3"=1'-0"

9 A-701 **NOT USED**
3"=1'-0"

BY	DESCRIPTION	DATE	REV

REGISTERED ARCHITECT ALEX ADEKANMBI 044557 STATE OF NEW YORK

2/15/2023
DATE

PREPARED BY:
ALEX ADEKANMBI, R.A.
2540 KINGSBROOKE LANE
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PHONE: (404) 747-9419

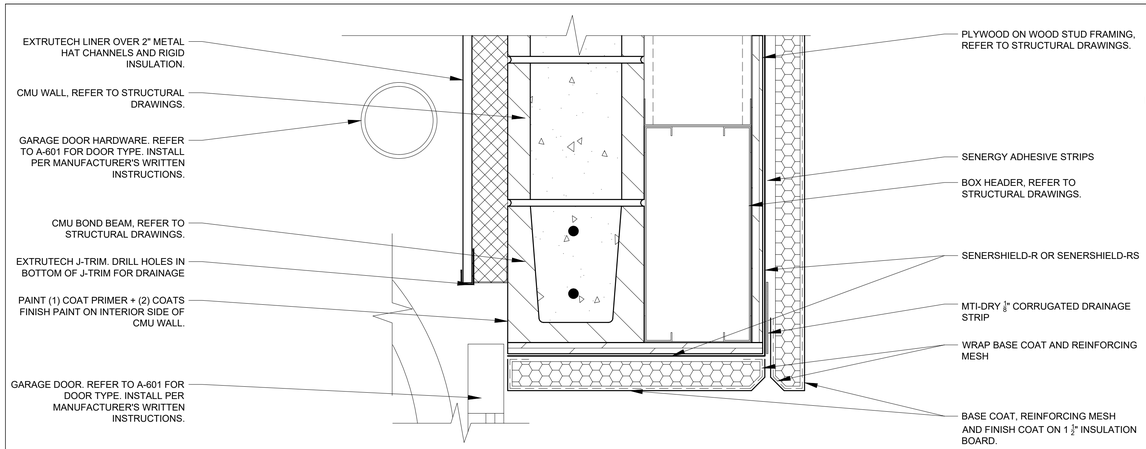
PREPARED FOR:
Hutton SITE REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY	AC
REVIEWED BY	BK
PROJ. MGR.	
DATE ISSUED	02/10/23

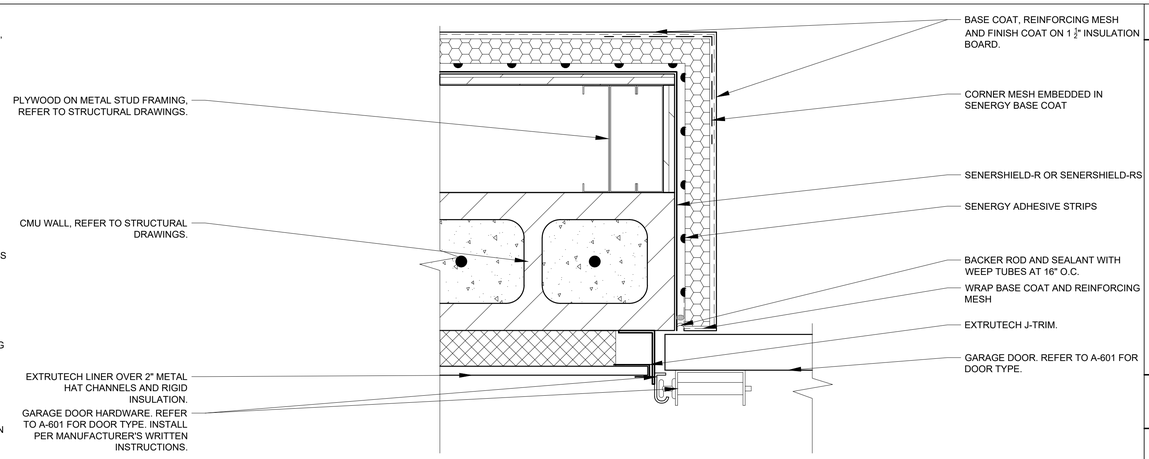
TITLE
MODWASH EXPRESS CARWASH
DESCRIPTION
8" CMU BEARING WALLS
WOOD TRUSS ROOF FRAMING
E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL
12'-0" NORTHERN PROTOTYPE W/120' CONVEYOR
FRONT ENTRANCE

SITE ID 200890
SITE ADDRESS 5363 SOUTHWESTERN BOULEVARD
HAMBURG, NY

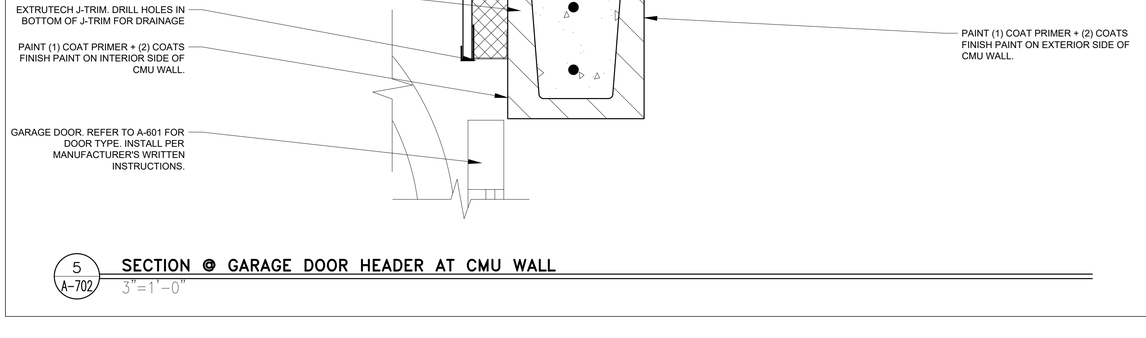
SHEET NO. A-701
ENLARGED DETAILS



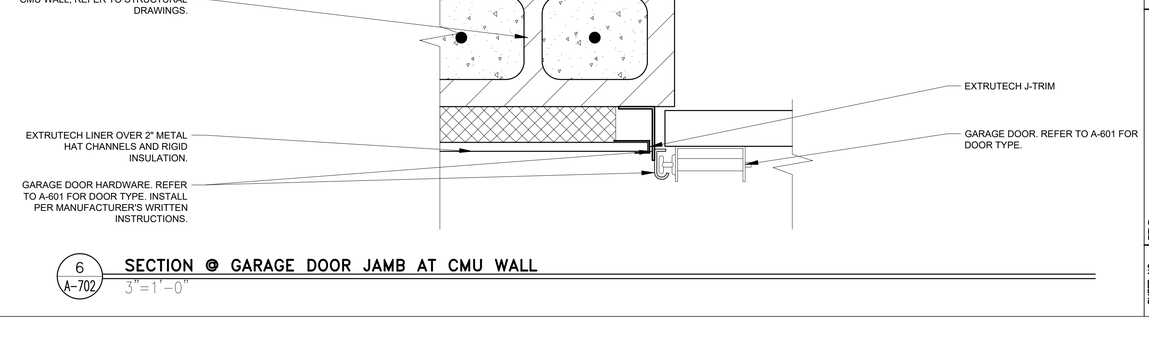
1 A-702 **SECTION @ GARAGE DOOR HEADER AT OVERBUILD**
3"=1'-0"



2 A-702 **SECTION @ GARAGE DOOR JAMB AT OVERBUILD**
3"=1'-0"



3 A-702 **SECTION @ GARAGE DOOR HEADER**
3"=1'-0"



4 A-702 **SECTION @ GARAGE DOOR JAMB**
3"=1'-0"

5 A-702 **SECTION @ GARAGE DOOR HEADER AT CMU WALL**
3"=1'-0"

6 A-702 **SECTION @ GARAGE DOOR JAMB AT CMU WALL**
3"=1'-0"

BY	DESCRIPTION	DATE	REV

REGISTERED ARCHITECT ALEX ADEKANMBI 044557 STATE OF NEW YORK

2/15/2023
DATE

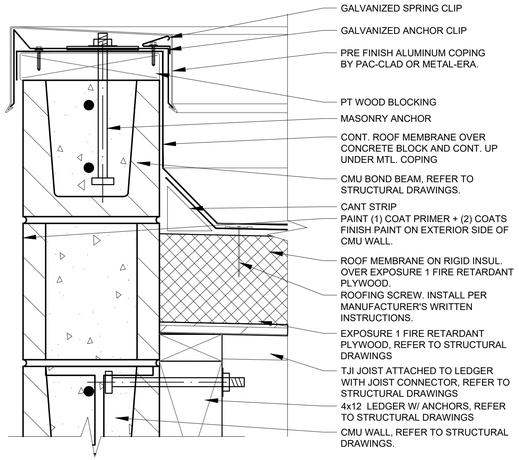
PREPARED BY:
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PHONE: (404) 747-9419

PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

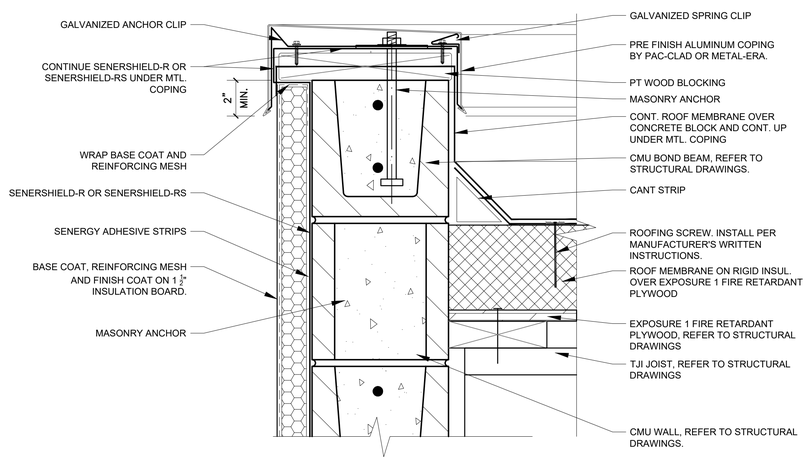
DRAWN BY	REVIEWED BY	PROJ. MGR.	DATE ISSUED
AC	BK		02/10/23

TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION: 8" CMU BEARING WALLS WOOD TRUSS ROOF FRAMING E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL 1 OF A MODERN PROTOTYPE W/120' CONVEYOR FOR AN ENTRANCE
SITE ID: 200890
SITE ADDRESS: 5363 SOUTHWESTERN BOULEVARD HAMBURG, NY

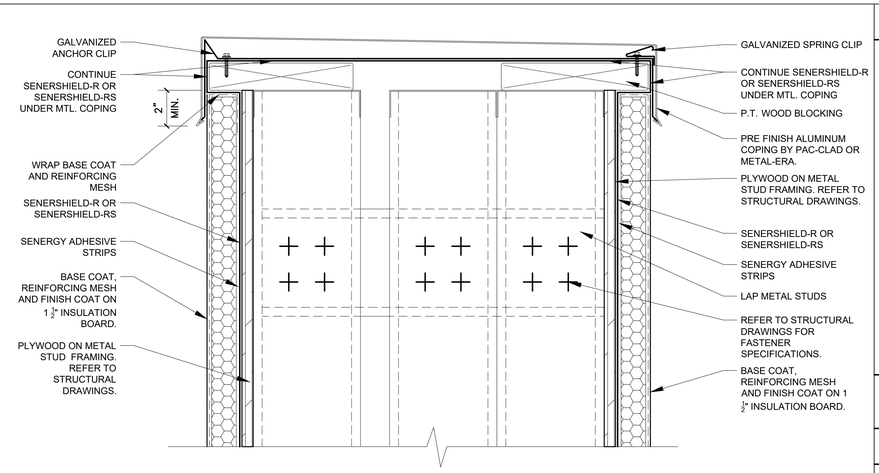
SHEET NO. A-702
ENLARGED DETAILS



1 A-703 **SECTION @ PARAPET AT CMU WALL**
3"=1'-0"

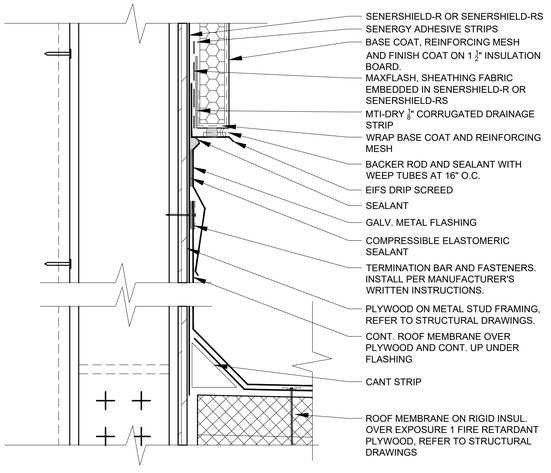


2 A-703 **SECTION @ PARAPET AT CMU AND EIFS WALL**
3"=1'-0"

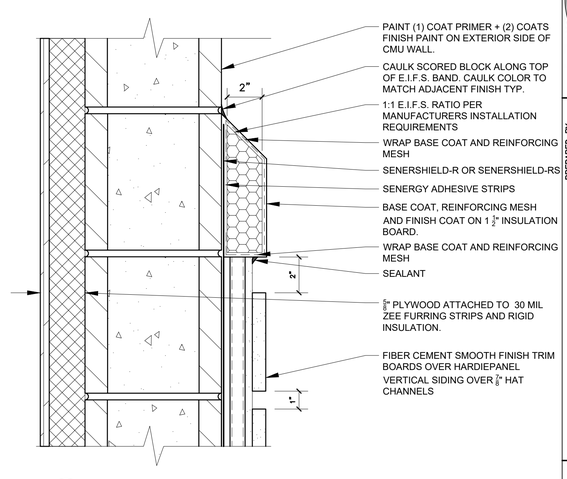


3 A-703 **SECTION @ PARAPET AT OVERBUILD**
3"=1'-0"

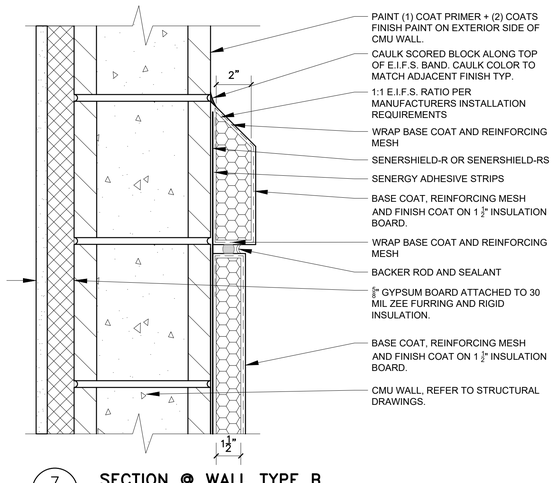
4 A-703 **SECTION @ PARAPET AT FIN WALL**
3"=1'-0"



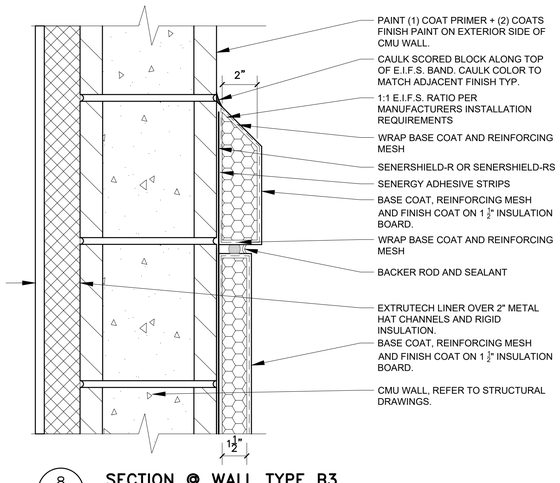
5 A-703 **SECTION @ FIN AND FEATURE WALL BASE**
3"=1'-0"



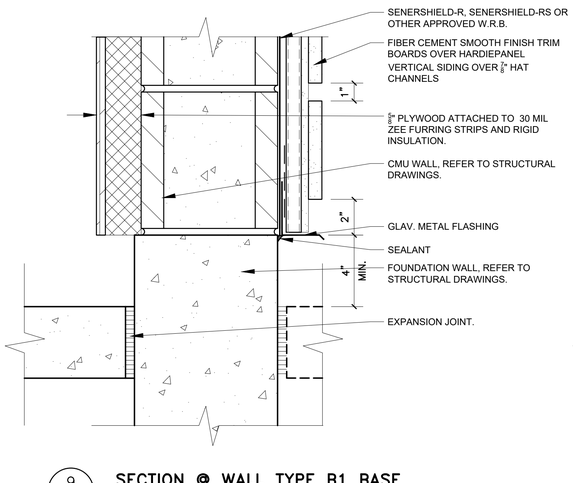
6 A-703 **SECTION @ WALL TYPE B1**
3"=1'-0"



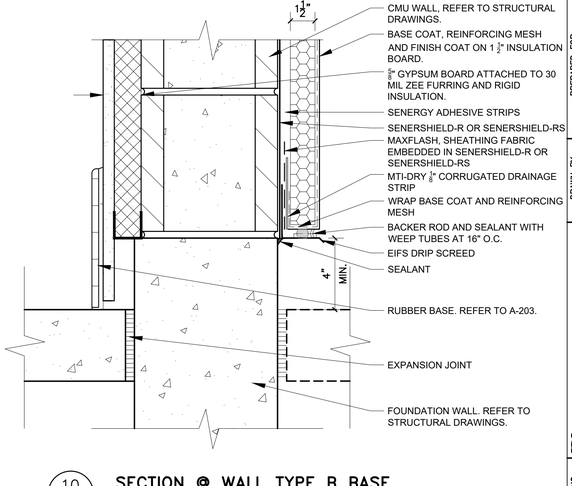
7 A-703 **SECTION @ WALL TYPE B**
3"=1'-0"



8 A-703 **SECTION @ WALL TYPE B3**
3"=1'-0"



9 A-703 **SECTION @ WALL TYPE B1 BASE**
3"=1'-0"



10 A-703 **SECTION @ WALL TYPE B BASE**
3"=1'-0"

BY	DESCRIPTION	DATE	REV

REGISTERED ARCHITECT ALEX ADEKANMBI 044557 STATE OF NEW YORK
2/15/2023
DATE

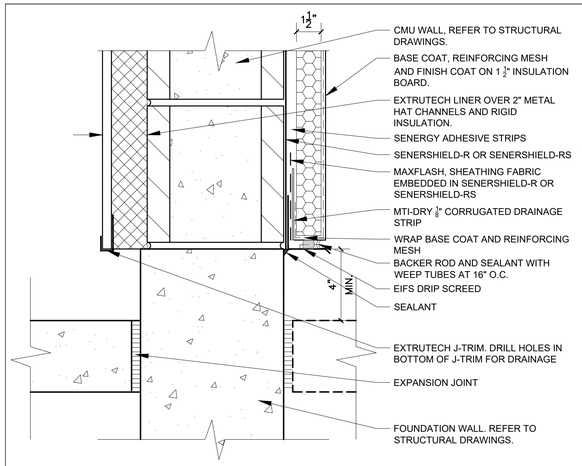
PREPARED BY:
ALEX ADEKANMBI, R.A.
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PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

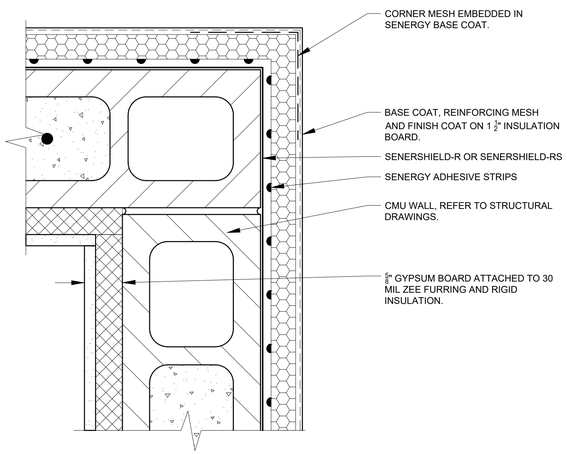
DRAWN BY	AC
REVIEWED BY	BK
PROJ. MGR.	
DATE ISSUED	02/10/23
HAMBURG, NY	

TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION: 8" CMU BEARING WALLS WOOD TRUSS ROOF FRAMING E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL TEX ARCHITECTURAL PROTOTYPE W/120' CONVEYOR FLEX ARCHITECTURE ENTRANCE
SITE ID: 200890
SITE ADDRESS: 5363 SOUTHWESTERN BOULEVARD

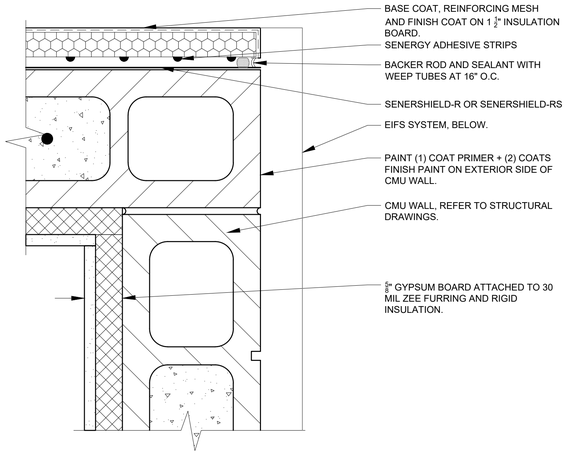
SHEET NO. A-703
ENLARGED DETAILS



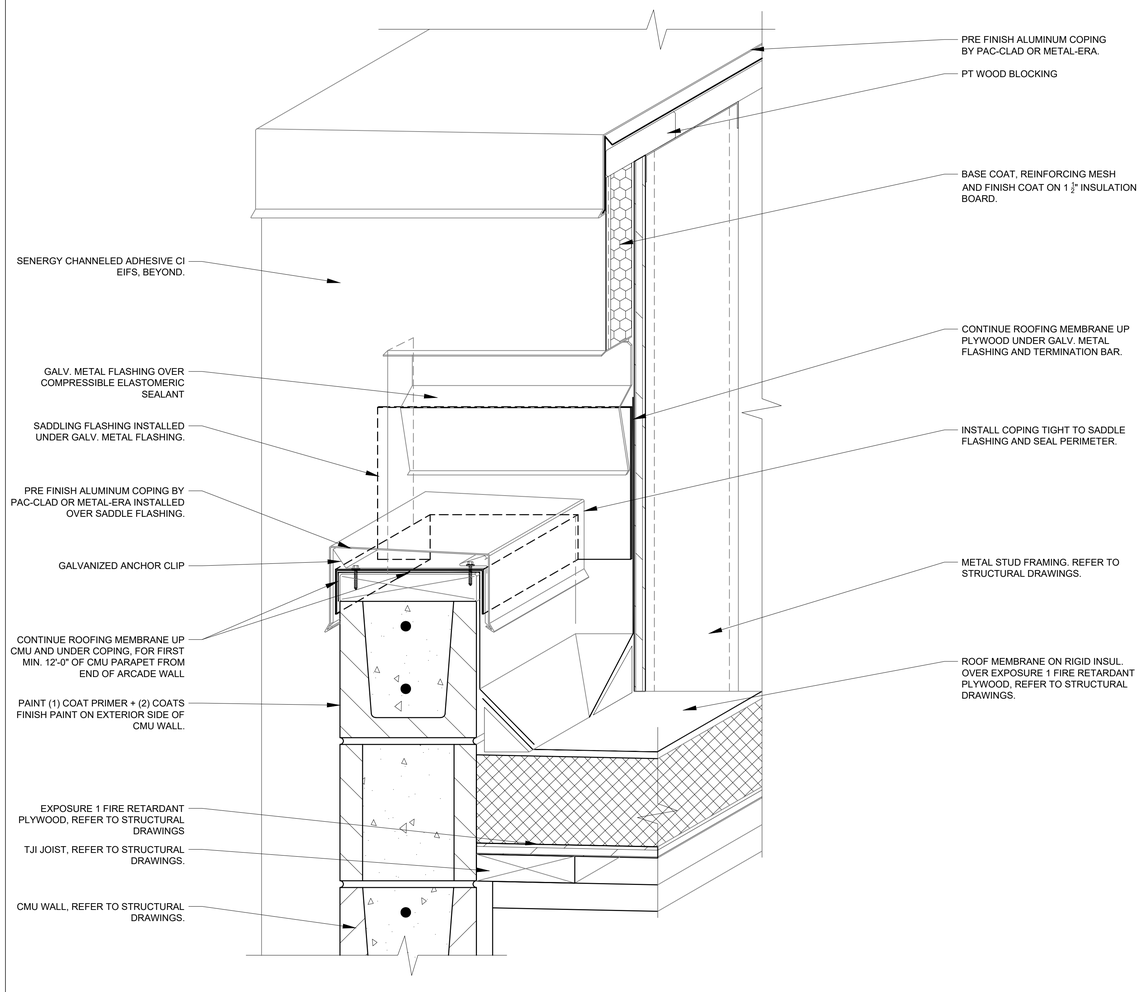
1 A-704 **SECTION @ WALL TYPE B3 BASE**
3"=1'-0"



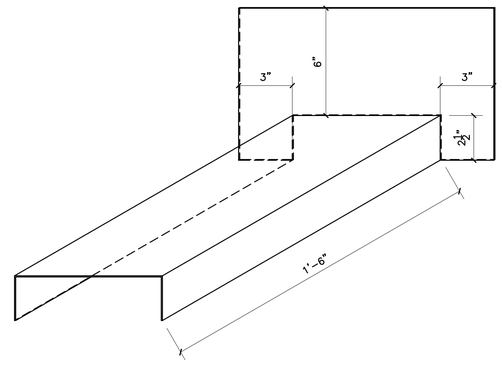
2 A-704 **SECTION @ CORNER WITH EIFS**
3"=1'-0"



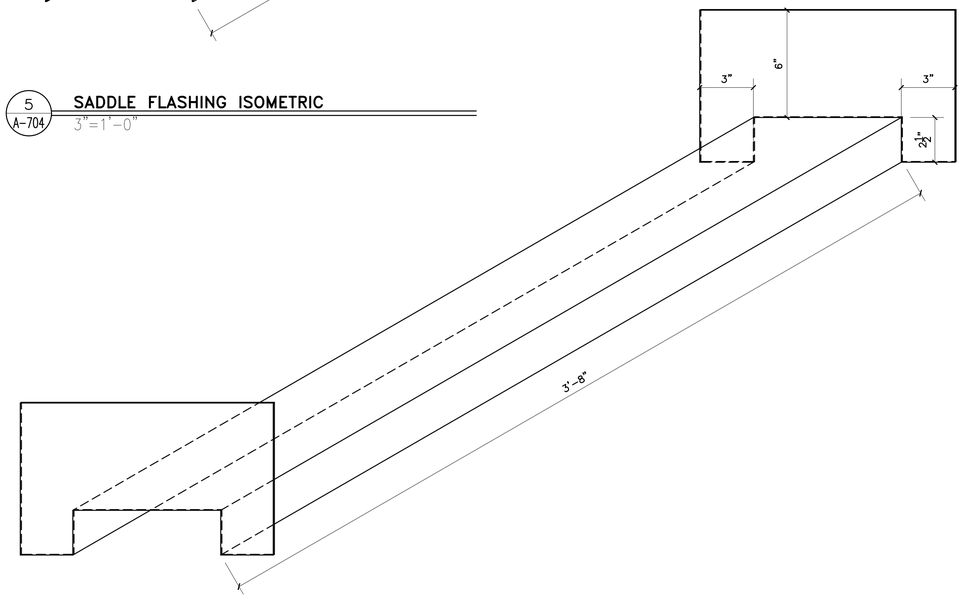
3 A-704 **SECTION @ CORNER WITH EIFS AND CMU**
3"=1'-0"



4 A-704 **ISOMETRIC SECTION @ SADDLE FLASHING**
3"=1'-0"



5 A-704 **SADDLE FLASHING ISOMETRIC**
3"=1'-0"



6 A-704 **SADDLE FLASHING ISOMETRIC**
3"=1'-0"

REV	DATE	DESCRIPTION	BY

REGISTERED ARCHITECT ALEX ADEKANMBI 044557 STATE OF NEW YORK

2/15/2023
DATE

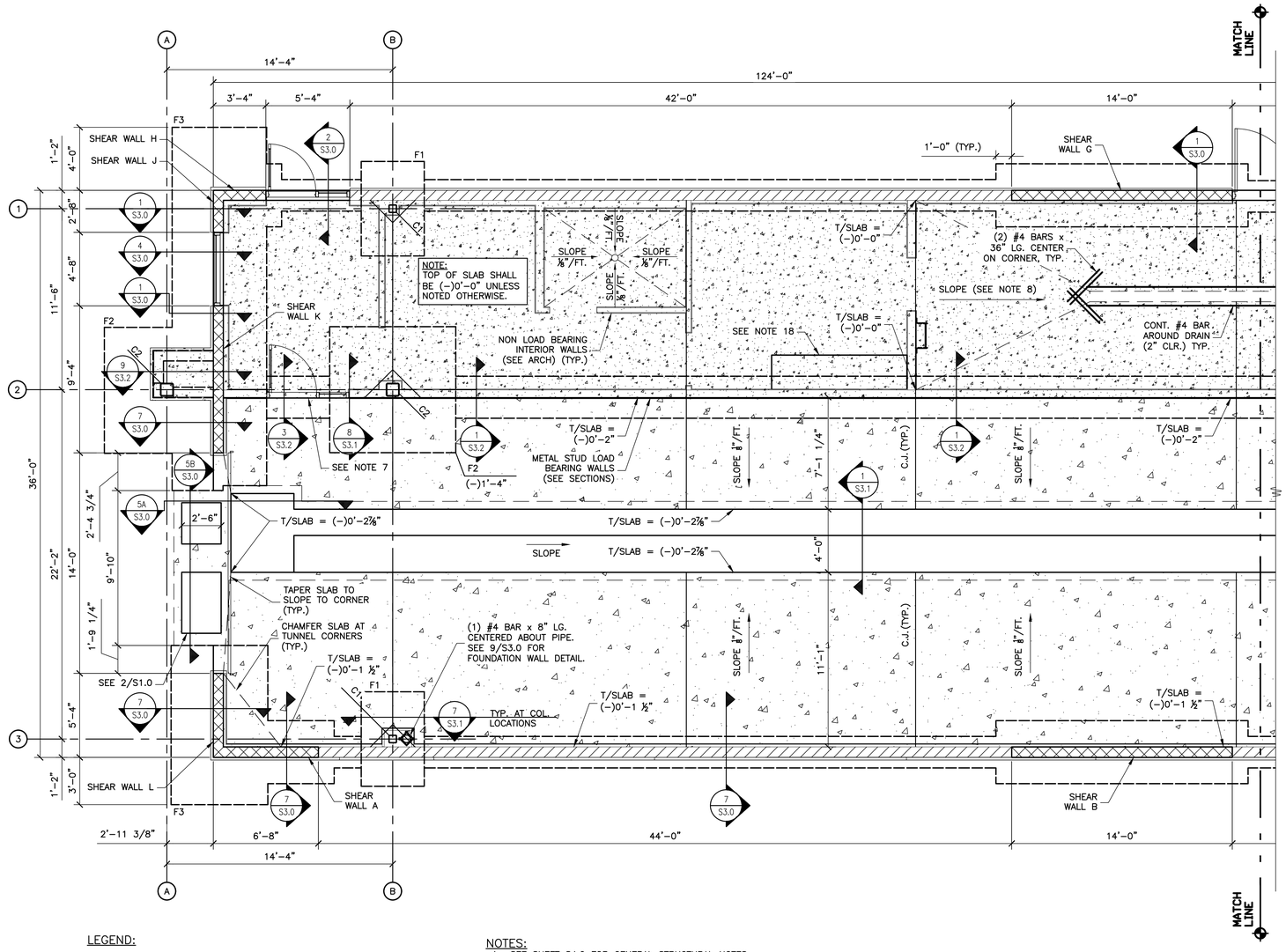
PREPARED BY:
ALEX ADEKANMBI, R.A.
2540 KINGSBROOKE LANE
DULUTH, GEORGIA 30097
PHONE: (404) 747-9419

PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION: 8" CMU BEARING WALLS WOOD TRUSS ROOF FRAMING E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL 124' ARCADE CANOPY PROTOTYPE W/120' CONVEYOR FIN AT ENTRANCE
SITE ID: 200890
SITE ADDRESS: 5363 SOUTHWESTERN BOULEVARD HAMBURG, NY

DRAWN BY: AC
REVIEWED BY: BK
PROJ. MGR.:
DATE ISSUED: 02/10/23

SHEET NO. A-704
ENLARGED DETAILS



LEGEND:

- 4" CONCRETE SLAB W/ 6x6–W2.1xW2.1 W.W.F. OVER 6" COMPACTED GRANULAR BASE COURSE AT OFFICE AND MECHANICAL ROOMS (SEE GEOTCH REPORT). T/SLAB @ EL. 0'–0" (U.N.O.) PROVIDE 10 MIL VAPOR BARRIER OVER SUBGRADE. SEE ARCH. DWGS. FOR DETAILS
- 5" CONCRETE SLAB WITH #4 BARS AT 16" O.C. EACH WAY OVER 6" COMPACTED GRANULAR BASE COURSE AT TUNNEL (SEE GEOTCH REPORT) T/SLAB @ EL. 0'–0" (U.N.O.) PROVIDE 10 MIL VAPOR BARRIER OVER SUBGRADE. SEE ARCH. DWGS. FOR DETAILS
- TYPICAL 8" CMU WALL VERTICAL REINFORCEMENT #5 BARS @ 32" O.C. GROUTED SOLID FULL HEIGHT W/ DOWELS INTO FOUNDATION. PROVIDE 3–#5 BARS @ ALL CORNERS & 2–#5 BARS @ END OF ALL OPENINGS UNLESS NOTED OTHERWISE. PROVIDE JOINT REINFORCEMENT PER SHEET S4.0. SEE 5/S3.4 FOR DETAILS.
- INDICATES 8" CMU SHEAR WALL REINFORCEMENT U.N.O.: #5 VERT @ 24" O.C. GROUTED SOLID FULL HEIGHT W/ DOWELS INTO FOUNDATION. PROVIDE (2) #5 VERT BARS AT WALL ENDS (ONE EACH CELL). PROVIDE #5 HORIZ @ 32" O.C. MAX IN GROUTED CELLS (BOND BEAMS) W/ 180° HOOKS AT ENDS AROUND VERT REINF; SEE 6/S3.4 FOR DETAILS.
- INDICATES METAL STUD WALLS (SEE SECTIONS FOR STUD SIZE/DETAILS AND SEE ARCH FOR FINISH)

NOTES:

1. SEE SHEET S4.0 FOR GENERAL STRUCTURAL NOTES.
2. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. CONTACT ENGINEER OF RECORD OF ANY DIFFERENCES.
3. SEE ARCHITECTURAL DRAWINGS FOR TOP OF SLAB ELEVATIONS AND SLOPES.
4. TOP OF FOOTING SHALL BE PLACED BELOW MAX. FROST DEPTH OR AS REQUIRED TO ATTAIN ALLOWABLE SOIL BEARING CAPACITY, (–) 3'–2" MINIMUM, U.N.O. CONTACT E.O.R. FOR ANY DEVIATIONS.
5. CONCRETE FOUNDATIONS AND WALLS FOR THE RECLAMATION TANKS ARE DONE BY G.C. SEE CIVIL DRAWINGS AND NCS DRAWINGS FOR ADDITIONAL INFORMATION.
6. ———— INDICATES STEP IN FOUNDATION ELEVATION. SEE APPLICABLE SECTIONS FOR SPECIFIC FOUNDATION DEPTHS AND ELEVATIONS. SEE S4.0 FOR ADDITIONAL INFORMATION.
7. CONCRETE CONTRACTOR TO PROVIDE SMOOTH TRANSITION FROM LOBBY AT 0'–0" TO TUNNEL FLOOR WITH APPROXIMATE ELEVATION OF –0'–1 1/8", AND CREATE A LANDING WITH MAXIMUM 2% CROSS SLOPE, PER THE REQUIREMENTS OF IBC SECTION 1010.1.5 AND 1010.1.6. THE SLOPE OF THE SLAB OUTSIDE THE REQUIRED LANDING SHALL NOT EXCEED A 1:20 SLOPE.
8. G.C. TO SLOPE SLAB AS REQUIRED TO ACHIEVE A CONSTANT SLAB ELEVATION.
9. C.J. REFERS TO CONTROL JOINT. SEE 6/S3.2 FOR DETAILS.
10. SEE DETAIL 5/S3.2 FOR VACUUM BOOM FOUNDATION DETAIL. REFER TO CIVIL DRAWINGS FOR PLAN LOCATION. SEE 10/S3.2 FOR VACUUM BOOM DETAIL WHERE CURB IS NOT REQUIRED. FOUNDATION SHALL EXTEND 5 FEET BEYOND THE LAST VACUUM BOOM.
11. CONCRETE MIX DESIGN MAY USE A WATER REDUCING ADMIXTURE IN ACCORDANCE WITH ASTM C494 TYPE F OR G, OR APPROVED EQUAL.
12. REFER TO 2/S1.1 FOR TRENCH AND TRENCH DAM DETAILS.
13. COORDINATE ENTRANCE AND EXIT DRIVEWAY DETAILS WITH CIVIL DRAWINGS.
14. SEE 9/S3.1 FOR CANOPY FOUNDATION DETAILS. REFER TO CIVIL DRAWINGS FOR PLAN LOCATION.
15. 2x4 KEY JOINTS SHOWN IN THE FOUNDATION SECTIONS PROVIDE AN INTERLOCKING SURFACE BETWEEN THE TWO CONCRETE ADJOINING SURFACES AT POUR BREAK LOCATIONS. CONTRACTOR HAS THE OPTION OF INSTALLING THEM FOR ENHANCED STABILITY AND DIFFERENTIAL MOVEMENTS BETWEEN CONCRETE ELEMENTS.
16. PROVIDE (4) 600S162–43 METAL STUDS AT END. ATTACH BASE OF STUDS TO CONCRETE FOUNDATION WALL WITH SIMPSON HDU8 HOLD DOWN AND (1) ¾"ø SIMPSON TITEN HD ANCHOR EACH SIDE (5 ¾" MIN. EMBED.).
17. LOBBY, OFFICE, AND RESTROOMS TO BE SMOOTH TROWELED FINISHED CONCRETE FLOOR. ALL OTHERS TO BE LIGHT BROOM FINISH.
18. 6" CONCRETE PAD UNDER ELECTRICAL EQUIPMENT AS REQUIRED BY LOCAL JURISDICTION. COORDINATE RAISED SLAB DIMENSIONS AND LOCATIONS WITH ARCH DRAWINGS.

TRUE

1 S1.0 **PARTIAL FOUNDATION PLAN**
1/4"=1'–0"

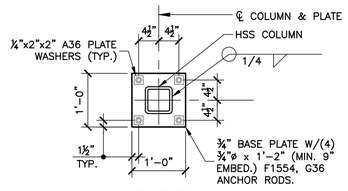
FOOTING SCHEDULE

MARK	SIZE (WxLxT)	REINFORCING
F1	6'–0"x4'–0"x1'–0"	(4) #5 L.W. TOP & BOT. (6) #5 S.W. TOP & BOT.
F2	8'–0"x8'–0"x2'–0"	(8) #7 E.W. TOP AND BOTTOM
F3	CONT.x6'–0"x2'–0"	(6) #5 L.W. TOP & BOT. #5 S.W. @ 12" O.C TOP & BOT.

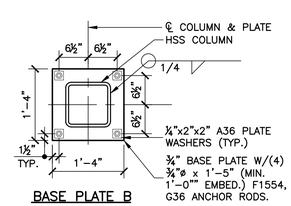
NOTES:
1. REINFORCEMENT IS TO BE SPACED EVENLY WITHIN THE FOOTING.
2. FOOTINGS SHALL BE CENTERED ABOUT COLUMN LINES/WALLS UNLESS OTHERWISE NOTED ON STRUCTURAL FOUNDATION PLAN.
3. NO FOOTINGS SHALL BEAR ON ROCK. UNDERCUT ROCK A MINIMUM OF 2 FEET BELOW BOTTOM OF FOOTING AND REPLACE WITH STRUCTURAL FILL.

COLUMN & BASE PLATE SCHEDULE

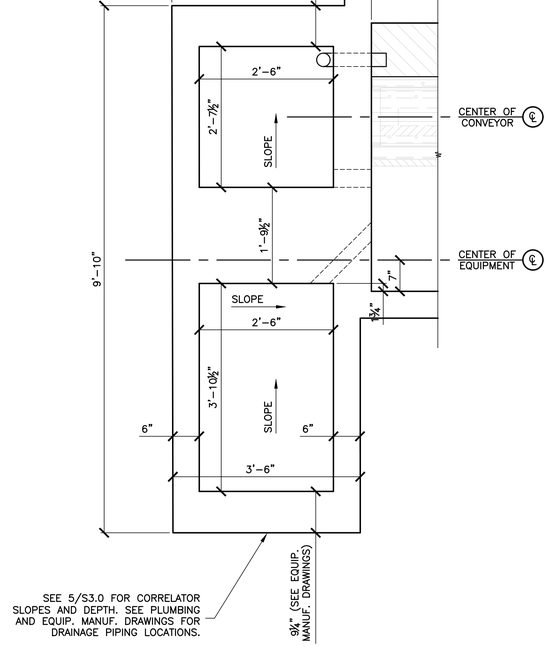
MARK	MEMBER	SHAPE	BASE PLATE	REMARKS
C1	HSS 6"x6"x3/8"	⊞	A	SEE 7/S3.1 (TYP.)
C2	HSS 10"x10"x3/8"	⊞	B	SEE SHEET S3.6 (TYP.)



BASE PLATE A



BASE PLATE B



2 S1.0 **CORRELATOR FOUNDATION PLAN**
3/4"=1'–0"

BY	DESCRIPTION	DATE	REV

STATE OF NEW YORK · PATRICK KELLY · 106400 · LICENSED PROFESSIONAL ENGINEER
02/10/2023
DATE

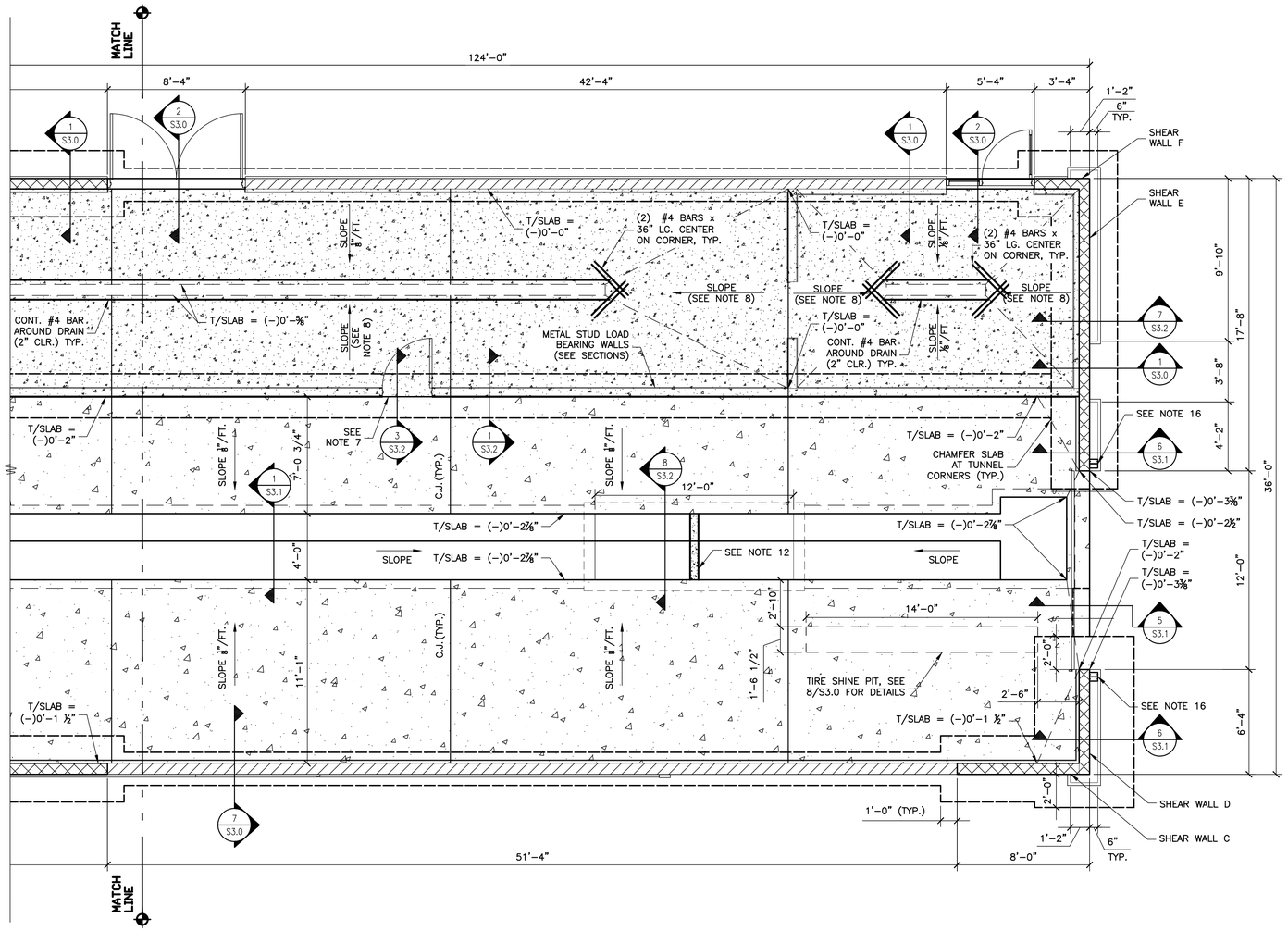
PREPARED BY:
PATRICK KELLY, P.E.
1632 TAPPAHANNOCK TRAIL
MARIETTA, GEORGIA 30062
PHONE: (717) 880-2600

PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY	MT
REVIEWED BY	PK
PROJ. MGR.	
DATE ISSUED	02/10/23
HAMBURG, NY	

TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION:
8" CMU BEARING WALLS
WOOD TRUSS ROOF FRAMING
E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL
724 NORTHERN PROTOTYPE W/120' CONVEYOR
PIN # 0140.17.126.1
SITE ID: 200890
SITE ADDRESS: 5383 SOUTHWESTERN BOULEVARD

SHEET NO. S1.0
FOUNDATION PLAN



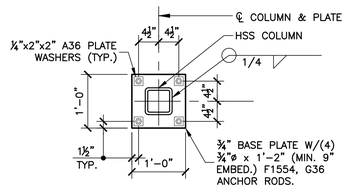
FOOTING SCHEDULE

MARK	SIZE (WxLxT)	REINFORCING
F1	6'-0"x4'-0"x1'-0"	(4) #5 L.W. TOP & BOT. (6) #5 S.W. TOP & BOT.
F2	8'-0"x8'-0"x2'-0"	(8) #7 E.W. TOP AND BOTTOM
F3	CONT.x6'-0"x2'-0"	(6) #5 L.W. TOP & BOT. #5 S.W. @ 12" O.C TOP & BOT.

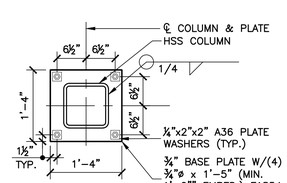
NOTES:
1. REINFORCEMENT IS TO BE SPACED EVENLY WITHIN THE FOOTING.
2. FOOTINGS SHALL BE CENTERED ABOUT COLUMN LINES/WALLS UNLESS OTHERWISE NOTED ON STRUCTURAL FOUNDATION PLAN.
3. NO FOOTINGS SHALL BEAR ON ROCK. UNDERCUT ROCK A MINIMUM OF 2 FEET BELOW BOTTOM OF FOOTING AND REPLACE WITH STRUCTURAL FILL.

COLUMN & BASE PLATE SCHEDULE

MARK	MEMBER	SHAPE	BASE PLATE	REMARKS
C1	HSS 6"x6"x3/8"	⊞	A	SEE 7/S3.1 (TYP.)
C2	HSS 10"x10"x3/8"	⊞	B	SEE SHEET S3.6 (TYP.)



BASE PLATE A



BASE PLATE B

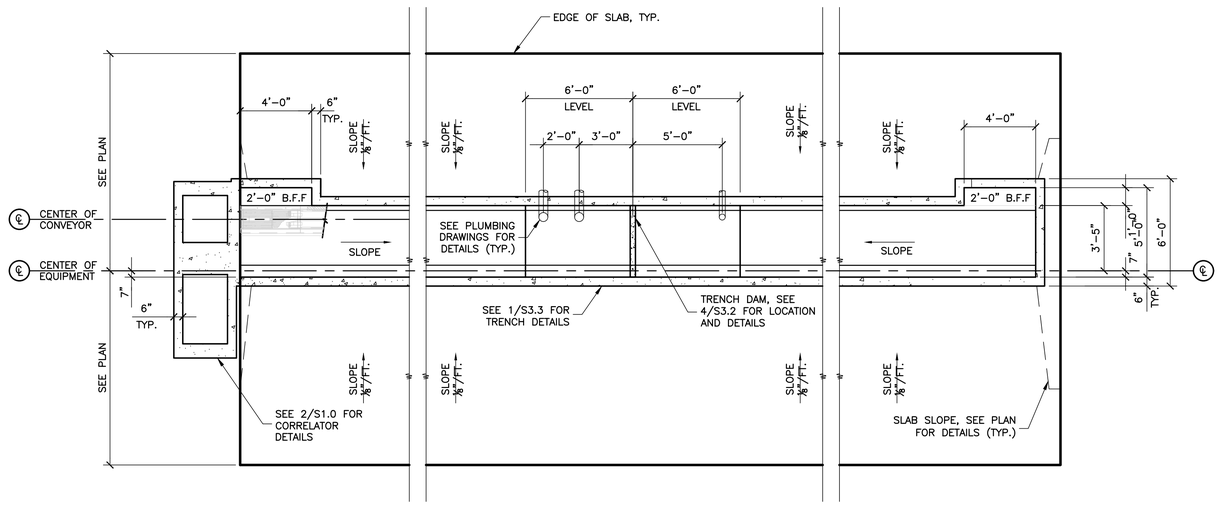
LEGEND:

- 4" CONCRETE SLAB W/ 6x6-W2.1xW2.1 W.W.F. OVER 6" COMPACTED GRANULAR BASE COURSE AT OFFICE AND MECHANICAL ROOMS (SEE GEOTCH REPORT). T/SLAB @ EL. 0'-0" (U.N.O.) PROVIDE 10 MIL VAPOR BARRIER OVER SUBGRADE. SEE ARCH. DWGS. FOR DETAILS
- 5" CONCRETE SLAB WITH #4 BARS AT 16" O.C. EACH WAY OVER 6" COMPACTED GRANULAR BASE COURSE AT TUNNEL (SEE GEOTCH REPORT) T/SLAB @ EL. 0'-0" (U.N.O.) PROVIDE 10 MIL VAPOR BARRIER OVER SUBGRADE. SEE ARCH. DWGS. FOR DETAILS
- TYPICAL 8" CMU WALL VERTICAL REINFORCEMENT #5 BARS @ 32" O.C. GROUTED SOLID FULL HEIGHT W/ DOWELS INTO FOUNDATION. PROVIDE 3-#5 BARS @ ALL CORNERS & 2-#5 BARS @ END OF ALL OPENINGS UNLESS NOTED OTHERWISE. PROVIDE JOINT REINFORCEMENT PER SHEET S4.0. SEE 5/S3.4 FOR DETAILS.
- INDICATES 8" CMU SHEAR WALL REINFORCEMENT U.N.O.: #5 VERT @ 24" O.C. GROUTED SOLID FULL HEIGHT W/ DOWELS INTO FOUNDATION. PROVIDE (2) #5 VERT BARS AT WALL ENDS (ONE EACH CELL). PROVIDE #5 HORIZ @ 32" O.C. MAX IN GROUTED CELLS (BOND BEAMS) W/ 180° HOOKS AT ENDS AROUND VERT REINF; SEE 6/S3.4 FOR DETAILS.
- INDICATES METAL STUD WALLS (SEE SECTIONS FOR STUD SIZE/DETAILS AND SEE ARCH FOR FINISH)

NOTES:
1. SEE SHEET S4.0 FOR GENERAL STRUCTURAL NOTES.
2. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. CONTACT ENGINEER OF RECORD OF ANY DIFFERENCES.
3. SEE ARCHITECTURAL DRAWINGS FOR TOP OF SLAB ELEVATIONS AND SLOPES.
4. TOP OF FOOTING SHALL BE PLACED BELOW MAX. FROST DEPTH OR AS REQUIRED TO ATTAIN ALLOWABLE SOIL BEARING CAPACITY, (-) 3'-2" MINIMUM, U.N.O. CONTACT E.O.R. FOR ANY DEVIATIONS.
5. CONCRETE FOUNDATIONS AND WALLS FOR THE RECLAMATION TANKS ARE DONE BY G.C. SEE CIVIL DRAWINGS AND NCS DRAWINGS FOR ADDITIONAL INFORMATION.
6. ——— INDICATES STEP IN FOUNDATION ELEVATION. SEE APPLICABLE SECTIONS FOR SPECIFIC FOUNDATION DEPTHS AND ELEVATIONS. SEE S4.0 FOR ADDITIONAL INFORMATION.
7. CONCRETE CONTRACTOR TO PROVIDE SMOOTH TRANSITION FROM LOBBY AT 0'-0" TO TUNNEL FLOOR WITH APPROXIMATE ELEVATION OF -0'-1 1/8", AND CREATE A LANDING WITH MAXIMUM 2% CROSS SLOPE, PER THE REQUIREMENTS OF IBC SECTION 1010.1.5 AND 1010.1.6. THE SLOPE OF THE SLAB OUTSIDE THE REQUIRED LANDING SHALL NOT EXCEED A 1:20 SLOPE.
8. G.C. TO SLOPE SLAB AS REQUIRED TO ACHIEVE A CONSTANT SLAB ELEVATION.
9. C.J. REFERS TO CONTROL JOINT. SEE 6/S3.2 FOR DETAILS.
10. SEE DETAIL 5/S3.2 FOR VACUUM BOOM FOUNDATION DETAIL. REFER TO CIVIL DRAWINGS FOR PLAN LOCATION. SEE 10/S3.2 FOR VACUUM BOOM DETAIL WHERE CURB IS NOT REQUIRED. FOUNDATION SHALL EXTEND 5 FEET BEYOND THE LAST VACUUM BOOM.
11. CONCRETE MIX DESIGN MAY USE A WATER REDUCING ADMIXTURE IN ACCORDANCE WITH ASTM C494 TYPE F OR G, OR APPROVED EQUAL.
12. REFER TO 2/S1.1 FOR TRENCH AND TRENCH DAM DETAILS.
13. COORDINATE ENTRANCE AND EXIT DRIVEWAY DETAILS WITH CIVIL DRAWINGS.
14. SEE 9/S3.1 FOR CANOPY FOUNDATION DETAILS. REFER TO CIVIL DRAWINGS FOR PLAN LOCATION.
15. 2x4 KEY JOINTS SHOWN IN THE FOUNDATION SECTIONS PROVIDE AN INTERLOCKING SURFACE BETWEEN THE TWO CONCRETE ADJOINING SURFACES AT POUR BREAK LOCATIONS. CONTRACTOR HAS THE OPTION OF INSTALLING THEM FOR ENHANCED STABILITY AND DIFFERENTIAL MOVEMENTS BETWEEN CONCRETE ELEMENTS.
16. PROVIDE (4) 600S162-43 METAL STUDS AT END. ATTACH BASE OF STUDS TO CONCRETE FOUNDATION WALL WITH SIMPSON HDU8 HOLD DOWN AND (1) ¾"ø SIMPSON TITEN HD ANCHOR EACH SIDE (5 ¾" MIN. EMBED.).
17. LOBBY, OFFICE, AND RESTROOMS TO BE SMOOTH TROWELED FINISHED CONCRETE FLOOR. ALL OTHERS TO BE LIGHT BROOM FINISH.
18. 6" CONCRETE PAD UNDER ELECTRICAL EQUIPMENT AS REQUIRED BY LOCAL JURISDICTION. COORDINATE RAISED SLAB DIMENSIONS AND LOCATIONS WITH ARCH DRAWINGS.

TRUE

1 S1.1 PARTIAL FOUNDATION PLAN
1/4"=1'-0"



2 S1.1 TRENCH PLAN
1/4"=1'-0"

REV	DATE	DESCRIPTION	BY

STATE OF NEW YORK · PATRICK KELLY · 106400 · LICENSED PROFESSIONAL ENGINEER

02/10/2023
DATE

PREPARED BY:

PATRICK KELLY, P.E.
1632 TAPPAHANNOCK TRAIL
MARIETTA, GEORGIA 30062
PHONE: (717) 880-2600

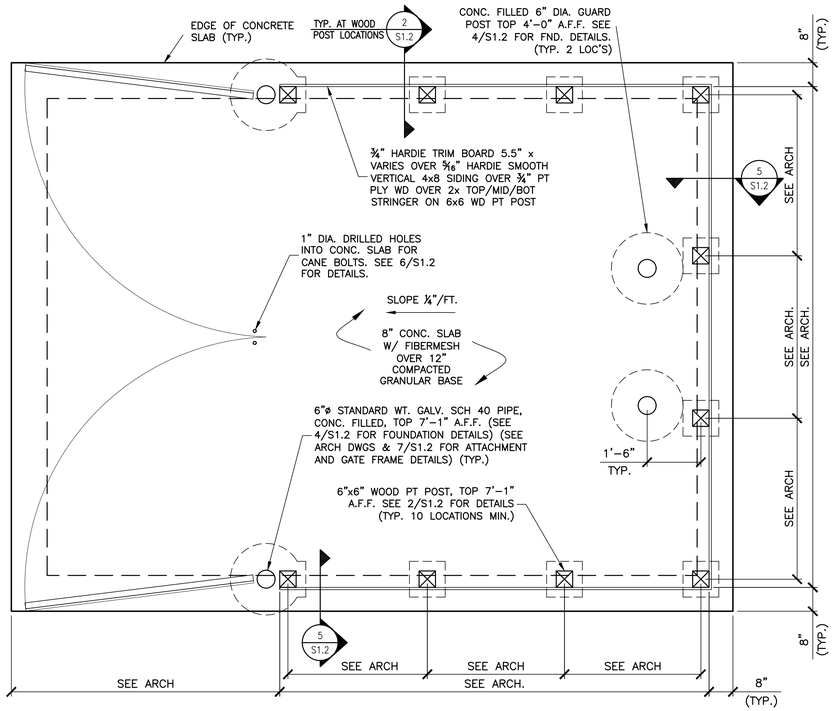
PREPARED FOR:

SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY	REVIEWED BY	PROJ. MGR.	DATE ISSUED
MT	PJK		02/10/23

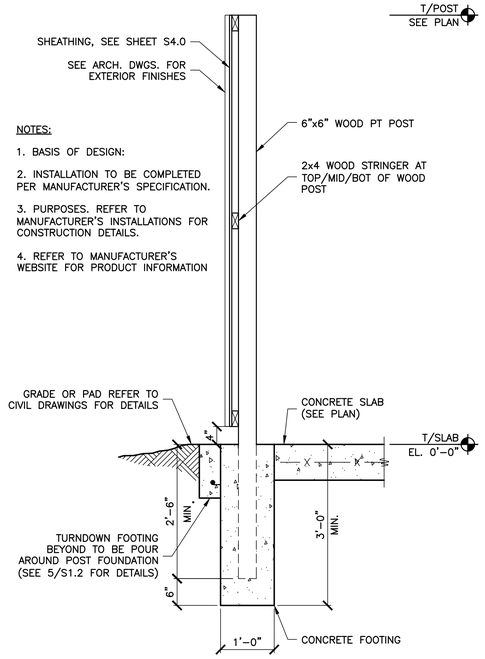
TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION: 8" CMU BEARING WALLS; WOOD TRUSS ROOF FRAMING; E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL; 24' NORTHERN PROTOTYPE W/120' CONVEYOR
FM AT ENTRANCE
SITE ID: 200990
SITE ADDRESS: 5363 SOUTHWESTERN BOULEVARD
HAMBURG, NY

SHEET NO. S1.1
FOUNDATION PLAN



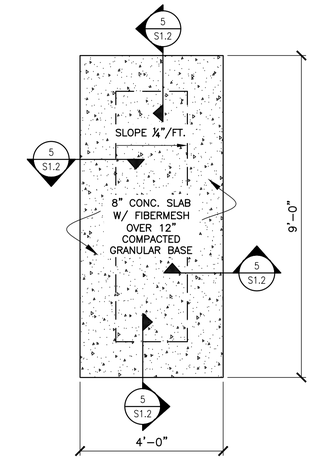
1 S1.2 **PLAN – TRASH ENCLOSURE**

1/2"=1'-0"



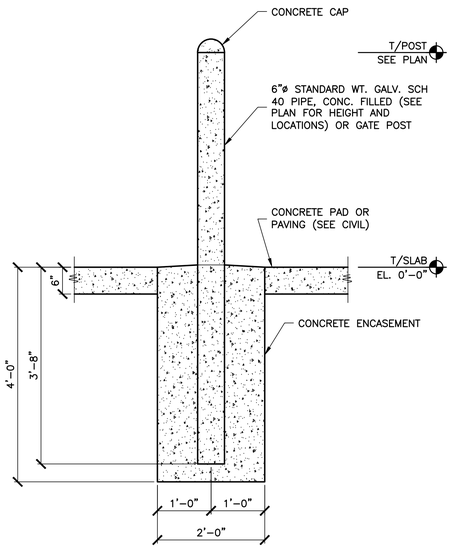
2 S1.2 **WALL SECTION**

3/4"=1'-0"



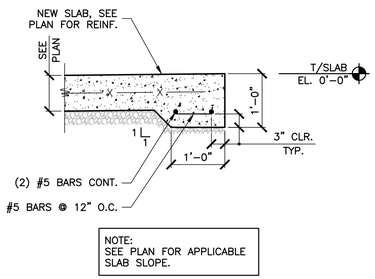
3 S1.2 **PLAN – VACUUM PAD**

1/2"=1'-0"



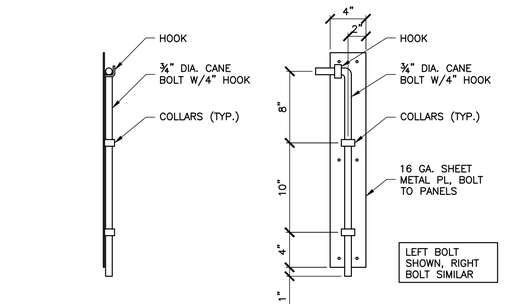
4 S1.2 **POST FOUNDATION DETAIL**

3/4"=1'-0"



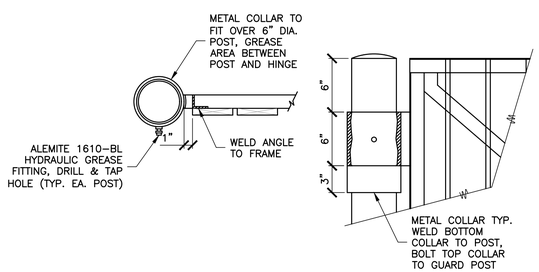
5 S1.2 **FOUNDATION DETAIL**

3/4"=1'-0"



6 S1.2 **GATE DETAILS**

3/4"=1'-0"



7 S1.2 **HINGE DETAILS**

3/4"=1'-0"

BY	DESCRIPTION	DATE	REV

STATE OF NEW YORK
PATRICK KELLY
106400
LICENSED PROFESSIONAL ENGINEER

02/10/2023
DATE

PREPARED BY:

PATRICK KELLY, P.E.
1632 TAPPAHANNOCK TRAIL
MARIETTA, GEORGIA 30062
PHONE: (717) 880-2600

PREPARED FOR:

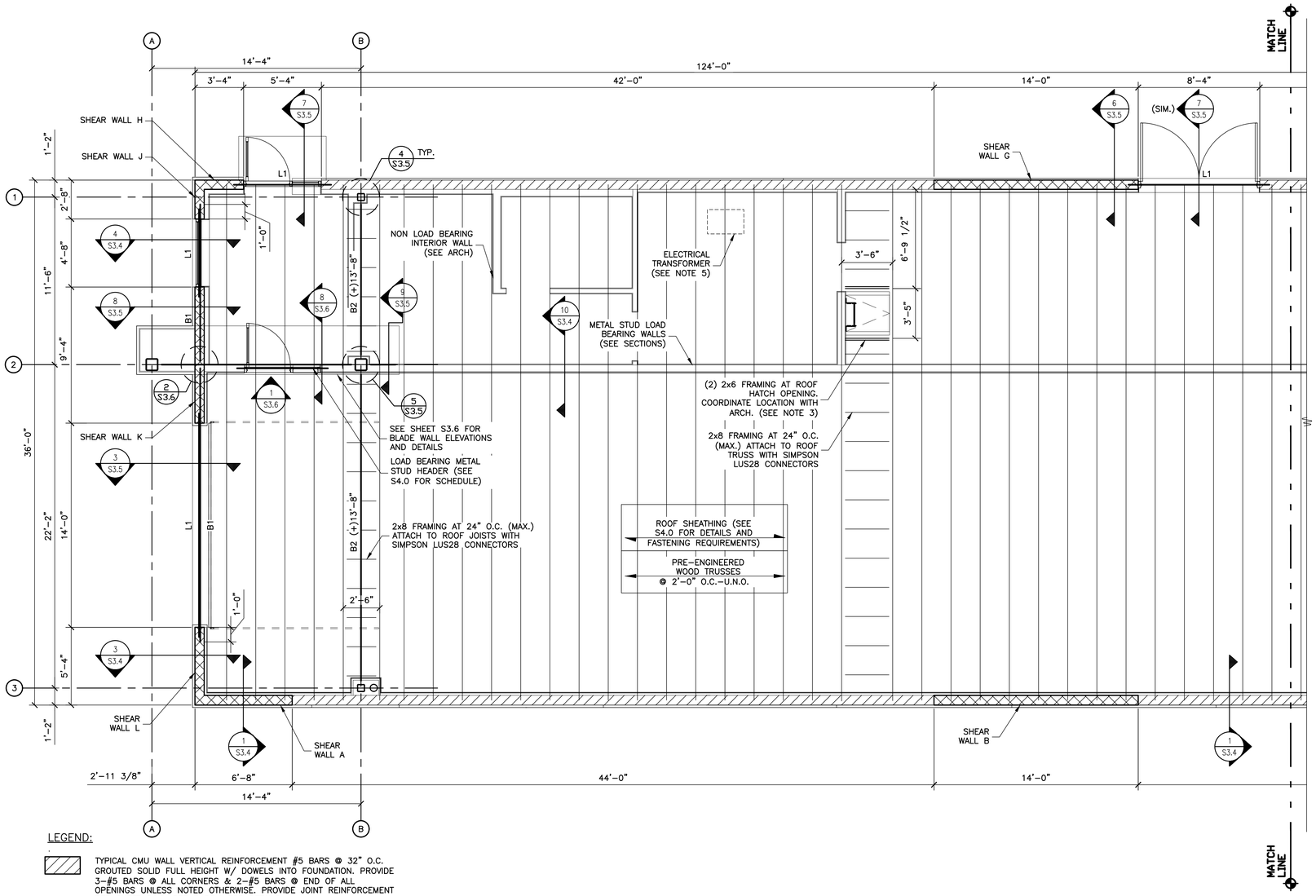
Hutton SITE
REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY	MT
REVIEWED BY	PK
PROJ. MGR.	
DATE ISSUED	02/10/23
SITE ADDRESS	5363 SOUTHWESTERN BOULEVARD HAMBURG, NY
SITE ID	20089D

TITLE: MODWASH EXPRESS CARWASH

DESCRIPTION:
8" CMU BEARING WALLS
WOOD TRUSS ROOF FRAMING
E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL
124' NORTHERN PROTOTYPE W/120' CONVEYOR
FIN ALTERNATE

SHEET NO. S1.2
DUMPSTER DETAILS



LEGEND:

TYPICAL CMU WALL VERTICAL REINFORCEMENT #5 BARS @ 32" O.C. GROUTED SOLID FULL HEIGHT W/ DOWELS INTO FOUNDATION. PROVIDE 3-#5 BARS @ ALL CORNERS & 2-#5 BARS @ END OF ALL OPENINGS UNLESS NOTED OTHERWISE. PROVIDE JOINT REINFORCEMENT PER SHEET S4.0. SEE 5/S3.4 FOR DETAILS.

INDICATES 8" CMU SHEAR WALL REINFORCEMENT U.N.O.: #5 VERT @ 24" O.C. GROUTED SOLID FULL HEIGHT W/ DOWELS INTO FOUNDATION. PROVIDE (2) #5 VERT BARS AT WALL ENDS (ONE EACH CELL). PROVIDE #5 HORIZ @ 32" O.C. MAX IN GROUTED CELLS (BOND BEAMS) W/ 180° HOOKS AT ENDS AROUND VERT REINF; SEE 6/S3.4 FOR DETAILS.

INDICATES METAL STUD WALL (SEE SECTIONS FOR STUD SIZE/DETAILS AND SEE ARCH FOR FINISH)

NOTES:

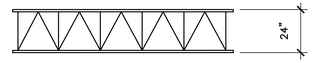
1. SEE SHEET S4.0 FOR GENERAL STRUCTURAL NOTES.
2. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. CONTACT ENGINEER OF RECORD OF ANY DIFFERENCES.
3. T/STEEL SHALL BE (+)14'-4" U.N.O.
4. COORDINATE LOCATION OF OPENINGS WITH ARCHITECTURAL DRAWINGS. DIMENSIONS FROM EDGE OF EXTERIOR WALLS TO OPENINGS SHALL HAVE A TOLERANCE OF ±1'-0" U.N.O. ALL EQUIPMENT SHALL BE FIELD LOCATED SUCH THAT PENETRATIONS DO NOT INTERFERE WITH ROOF FRAMING.
5. G.C. TO REFER TO 1/S3.5 FOR TRANSFORMER INSTALLATION. G.C. SHALL INSTALL FLAT 2x6 ON ONE SIDE OF EACH ROOF TRUSS IN AREA OF TRANSFORMER, BOTTOM OF FLAT 2x TO MATCH BOTTOM ELEVATION OF FRAMING IN THE DETAIL AT EACH CORNER. ATTACH TO TOP AND BOTTOM TRUSS CHORD MEMBER AND TO FRAMING IN DETAIL WITH (1) 3/4" DIA. A307 HEX HEAD BOLT, FLAT WASHER AND HEX NUT. SEE ELECTRICAL DRAWINGS FOR SIZE AND LOCATION. TRUSS DESIGNER TO ACCOUNT FOR 600 LBS TOTAL WEIGHT FOR TRANSFORMER FOR TRUSS ANALYSIS.
6. WOOD ROOF TRUSSES TO BE DESIGNED AND LOCATED BY A ROOF TRUSS ENGINEER LICENSED IN THE PROJECT STATE. PLAN LAYOUT AND DESIGN DETAILS SHALL BE PROVIDED TO ENGINEER OF RECORD FOR REVIEW AND COORDINATION WITH ARCHITECTURAL PLAN AND ELEVATIONS. PROVIDE TRUSS BRACING PER MANUFACTURER RECOMMENDATIONS.
7. WOOD ROOF TRUSS LAYOUT IS FOR PRELIMINARY PURPOSES. TRUSS DESIGNER TO PROVIDE REDUCED TRUSS SPACING WHERE APPLICABLE FOR DESIGN LOADS AND SNOW DRIFT.

TRUE

1 S2.0 PARTIAL ROOF FRAMING PLAN
1/4"=1'-0"



2 S2.0 SNOW DRIFT DIAGRAM
1/8"=1'-0"



24" DEEP TRUSS PROFILE

NOTES:

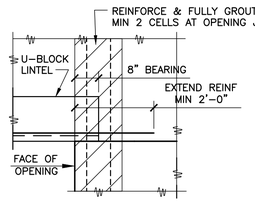
1. ALL TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING NET UPLIFT: 16 PSF.
2. ACTUAL TRUSS CONFIGURATIONS TO BE DETERMINED BY MANUFACTURER.
3. JOISTS SHALL BE SIZED FOR LOADS INDICATED ON S4.0 PLUS SNOW ALL MECH LOADS INDICATED ON ROOF FRAMING PLAN.

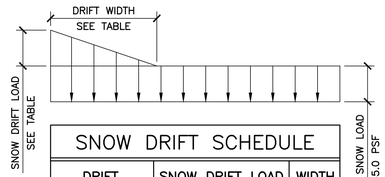
BEAM SCHEDULE

MARK	MEMBER	SHAPE	SUPPORT	REMARKS
B1	W8x28	I	BEARING PLATE WELDED AT BEAM	SEE 2/S3.5 SEE 2/S3.6
B2	HSS8x8x3/8	▯	WELDED AT COL.	SEE 4/S3.5 SEE 5/S3.5

LINTEL SCHEDULE

MARK	MEMBER	SHAPE	BRG.	REMARKS
L1	8x16 BOND BEAM W/ (2)#5 BOT	▯	8"	GROUT SOLID BOND BEAM





SNOW DRIFT SCHEDULE

DRIFT	SNOW DRIFT LOAD	WIDTH
1	40.1 PSF	7.83 FT
2	(SEE FLAT SNOW LOAD)	N/A
3	(SEE FLAT SNOW LOAD)	N/A
4	20.8 PSF	4.06 FT
5	57.4 PSF	11.2 FT
6	(SEE FLAT SNOW LOAD)	N/A

NOTES:
1. SNOW DRIFT LOADS BASED ON NOMINAL, UNFACTORED GROUND SNOW LOADS. SEE SHEET S4.0 FOR ADDITIONAL INFORMATION.
2. JOIST SHALL ALSO BE DESIGNED FOR NET UPLIFT 16PSF
3. SNOW DRIFT LOADS SHALL BE CONSIDERED IN ADDITION TO FLAT SNOW LOADS FOR JOIST LOADING CAPACITY AS SHOWN ABOVE.

BY	DESCRIPTION	DATE	REV

STATE OF NEW YORK
PATRICK KELLY
106400
LICENSED PROFESSIONAL ENGINEER
02/10/2023
DATE

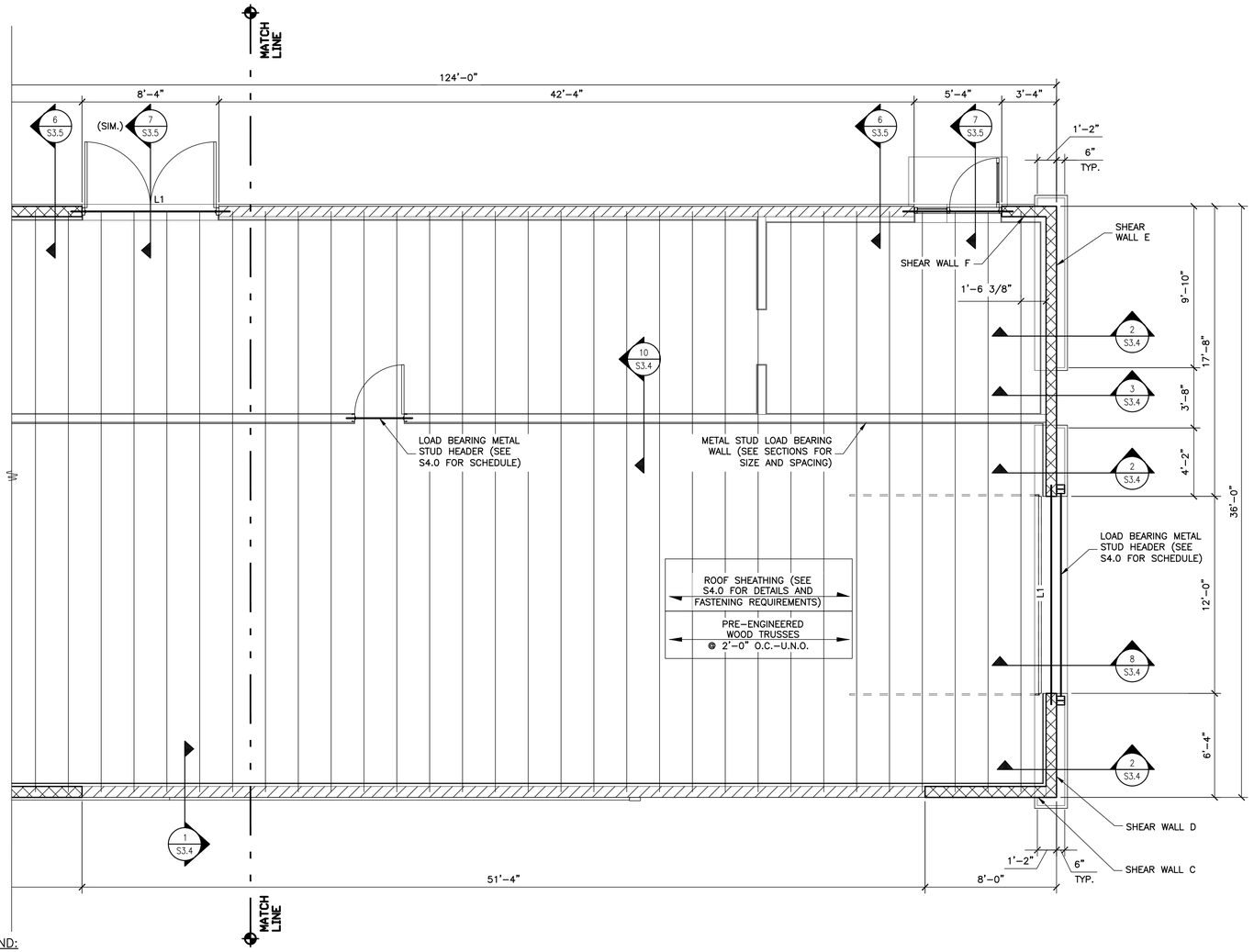
PREPARED BY:
PATRICK KELLY, P.E.
1632 TAPPAHANNOCK TRAIL
MARIETTA, GEORGIA 30062
PHONE: (717) 880-2600

PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY	MT
REVIEWED BY	PK
PROJ. MGR.	
DATE ISSUED	02/10/23
	HAMBURG, NY

TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION: 8" CMU BEARING WALLS WOOD TRUSS ROOF FRAMING E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL 124' NORTHERN PROTOTYPE W/120' CONVEYOR PKG A
SITE ADDRESS: 5383 SOUTHWESTERN BOULEVARD
SITE ID: 20089D

SHEET NO. S2.0
ROOF FRAMING PLAN



LEGEND:

TYPICAL CMU WALL VERTICAL REINFORCEMENT #5 BARS @ 32" O.C. GROUTED SOLID FULL HEIGHT W/ DOWELS INTO FOUNDATION. PROVIDE 3-#5 BARS @ ALL CORNERS & 2-#5 BARS @ END OF ALL OPENINGS UNLESS NOTED OTHERWISE. PROVIDE JOINT REINFORCEMENT PER SHEET S4.0. SEE 5/S3.4 FOR DETAILS.

INDICATES 8" CMU SHEAR WALL REINFORCEMENT U.N.O.: #5 VERT @ 24" O.C. GROUTED SOLID FULL HEIGHT W/ DOWELS INTO FOUNDATION. PROVIDE (2) #5 VERT BARS AT WALL ENDS (ONE EACH CELL). PROVIDE #5 HORIZ @ 32" O.C. MAX IN GROUTED CELLS (BOND BEAMS) W/ 180° HOOKS AT ENDS AROUND VERT REINF; SEE 6/S3.4 FOR DETAILS.

INDICATES METAL STUD WALL (SEE SECTIONS FOR STUD SIZE/DETAILS AND SEE ARCH FOR FINISH)

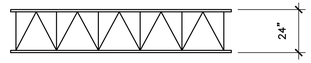
NOTES:
1. SEE SHEET S4.0 FOR GENERAL STRUCTURAL NOTES.
2. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. CONTACT ENGINEER OF RECORD OF ANY DIFFERENCES.
3. T/STEEL SHALL BE (+)14'-4" U.N.O.
4. COORDINATE LOCATION OF OPENINGS WITH ARCHITECTURAL DRAWINGS. DIMENSIONS FROM EDGE OF EXTERIOR WALLS TO OPENINGS SHALL HAVE A TOLERANCE OF ±1'-0" U.N.O. ALL EQUIPMENT SHALL BE FIELD LOCATED SUCH THAT PENETRATIONS DO NOT INTERFERE WITH ROOF FRAMING.
5. G.C. TO REFER TO 1/S3.5 FOR TRANSFORMER INSTALLATION. G.C. SHALL INSTALL FLAT 2x6 ON ONE SIDE OF EACH ROOF TRUSS IN AREA OF TRANSFORMER, BOTTOM OF FLAT 2x TO MATCH BOTTOM ELEVATION OF FRAMING IN THE DETAIL AT EACH CORNER. ATTACH TO TOP AND BOTTOM TRUSS CHORD MEMBER AND TO FRAMING IN DETAIL WITH (1) 3/4" DIA. A307 HEX HEAD BOLT, FLAT WASHER AND HEX NUT. SEE ELECTRICAL DRAWINGS FOR SIZE AND LOCATION. TRUSS DESIGNER TO ACCOUNT FOR 600 LBS TOTAL WEIGHT FOR TRANSFORMER FOR TRUSS ANALYSIS.
6. WOOD ROOF TRUSSES TO BE DESIGNED AND LOCATED BY A ROOF TRUSS ENGINEER LICENSED IN THE PROJECT STATE. PLAN LAYOUT AND DESIGN DETAILS SHALL BE PROVIDED TO ENGINEER OF RECORD FOR REVIEW AND COORDINATION WITH ARCHITECTURAL PLAN AND ELEVATIONS. PROVIDE TRUSS BRACING PER MANUFACTURER RECOMMENDATIONS.
7. WOOD ROOF TRUSS LAYOUT IS FOR PRELIMINARY PURPOSES. TRUSS DESIGNER TO PROVIDE REDUCED TRUSS SPACING WHERE APPLICABLE FOR DESIGN LOADS AND SNOW DRIFT.

1 S2.1 **PARTIAL ROOF FRAMING PLAN**
1/4"=1'-0"

TRUE



2 S2.1 **SNOW DRIFT DIAGRAM**
1/8"=1'-0"



24" DEEP TRUSS PROFILE

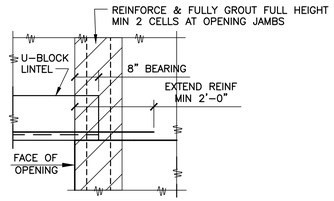
NOTES:
1. ALL TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING NET UPLIFT: 16 PSF.
2. ACTUAL TRUSS CONFIGURATIONS TO BE DETERMINED BY MANUFACTURER.
3. JOISTS SHALL BE SIZED FOR LOADS INDICATED ON S4.0 PLUS SNOW ALL MECH LOADS INDICATED ON ROOF FRAMING PLAN.

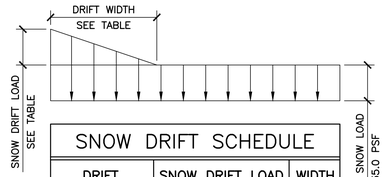
BEAM SCHEDULE

MARK	MEMBER	SHAPE	SUPPORT	REMARKS
B1	W8x28	I	BEARING PLATE WELDED AT BEAM	SEE 2/S3.5 SEE 2/S3.6
B2	HSS8x8x3/8	▯	WELDED AT COL.	SEE 4/S3.5 SEE 5/S3.5

LINTEL SCHEDULE

MARK	MEMBER	SHAPE	BRG.	REMARKS
L1	8x16 BOND BEAM W/ (2)#5 BOT	▯	8"	GROUT SOLID BOND BEAM





SNOW DRIFT SCHEDULE

DRIFT	SNOW DRIFT LOAD	WIDTH
1	40.1 PSF	7.83 FT
2	(SEE FLAT SNOW LOAD)	N/A
3	(SEE FLAT SNOW LOAD)	N/A
4	20.8 PSF	4.06 FT
5	57.4 PSF	11.2 FT
6	(SEE FLAT SNOW LOAD)	N/A

NOTES:
1. SNOW DRIFT LOADS BASED ON NOMINAL, UNFACTORED GROUND SNOW LOADS. SEE SHEET S4.0 FOR ADDITIONAL INFORMATION.
2. JOIST SHALL ALSO BE DESIGNED FOR NET UPLIFT 16PSF
3. SNOW DRIFT LOADS SHALL BE CONSIDERED IN ADDITION TO FLAT SNOW LOADS FOR JOIST LOADING CAPACITY AS SHOWN ABOVE.

BY	DESCRIPTION	DATE	REV

STATE OF NEW YORK
PATRICK KELLY
LICENSED PROFESSIONAL ENGINEER
106400
02/10/2023
DATE

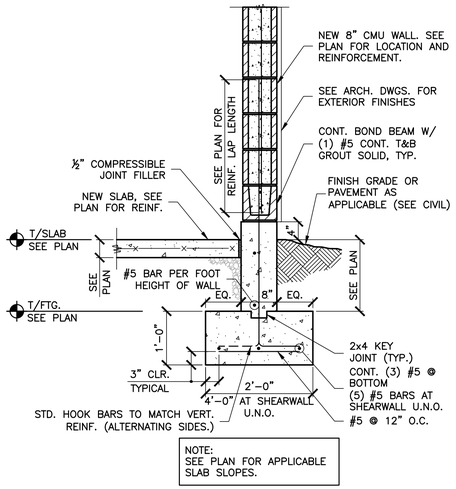
PREPARED BY:
PATRICK KELLY, P.E.
1632 TAPPAHANNOCK TRAIL
MARIETTA, GEORGIA 30062
PHONE: (717) 880-2600

PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

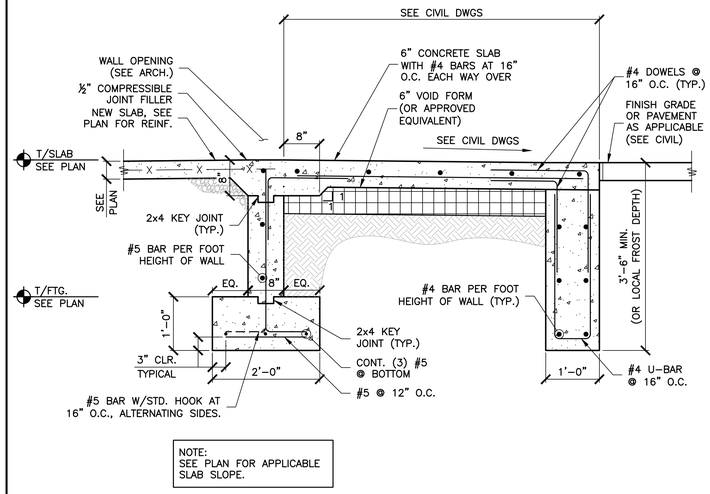
DRAWN BY: MT
REVIEWED BY: PK
PROJ. MGR.
DATE ISSUED: 02/10/23

TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION: 8" CMU BEARING WALLS WOOD TRUSS ROOF FRAMING E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL 124' NORTHERN PROTOTYPE W/120' CONVEYOR PKM PROJECT #: 2022-0
SITE ID: 200880
SITE ADDRESS: 5363 SOUTHWESTERN BOULEVARD HAMBURG, NY

SHEET NO. S2.1
ROOF FRAMING PLAN

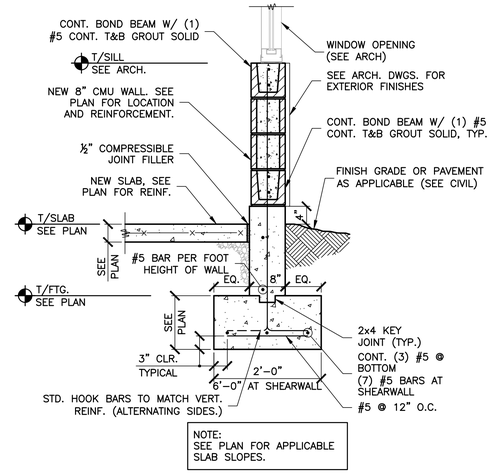


1 S3.0 **SECTION**
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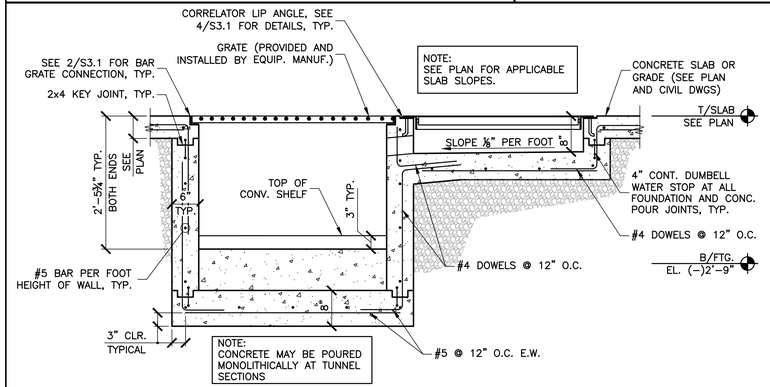


2 S3.0 **SECTION**
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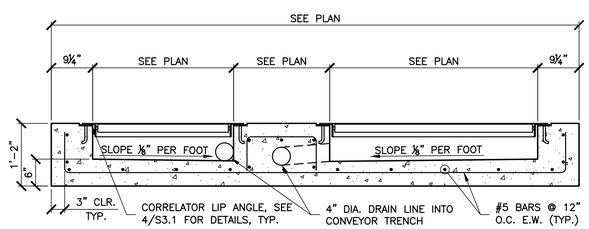
3 S3.0 **SECTION NOT USED**
3/4"=1'-0"



4 S3.0 **SECTION**
3/4"=1'-0"

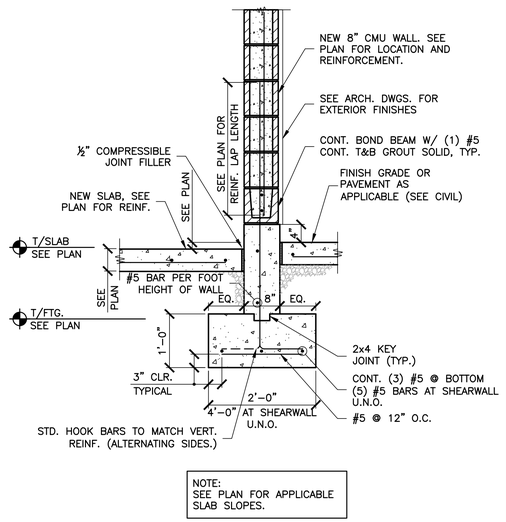


5A S3.0 **SECTION**
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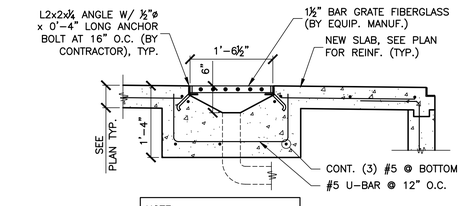


5B S3.0 **SECTION**
3/4"=1'-0"

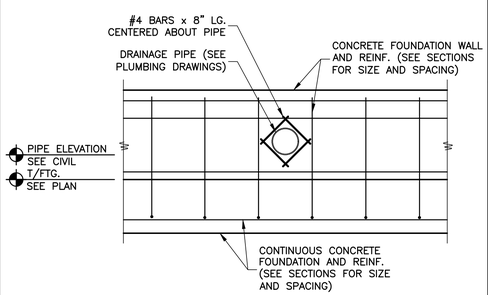
6 S3.0 **SECTION NOT USED**
3/4"=1'-0"



7 S3.0 **SECTION**
3/4"=1'-0"



8 S3.0 **DETAIL**
3/4"=1'-0"



9 S3.0 **DETAIL**
3/4"=1'-0"

BY	DESCRIPTION	DATE	REV

STATE OF NEW YORK · PATRICK KELLY · 106400 · LICENSED PROFESSIONAL ENGINEER

02/10/2023
DATE

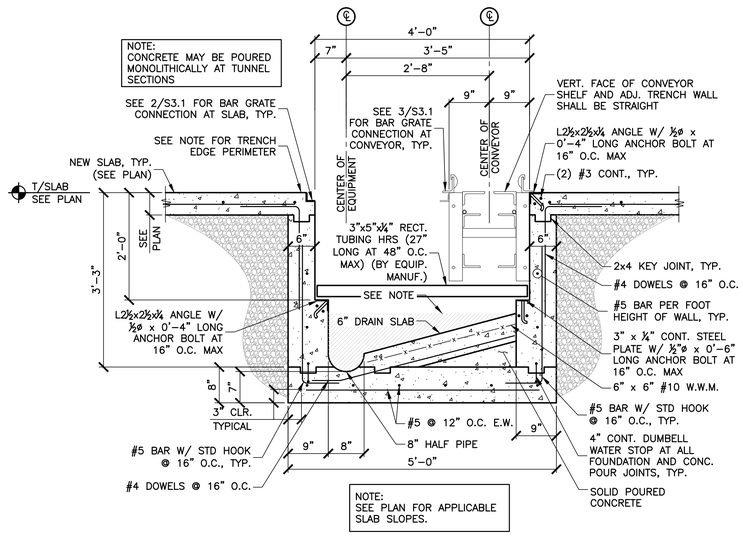
PREPARED BY:
PATRICK KELLY, P.E.
1632 TAPPAHANNOCK TRAIL
MARIETTA, GEORGIA 30062
PHONE: (717) 880-2600

PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

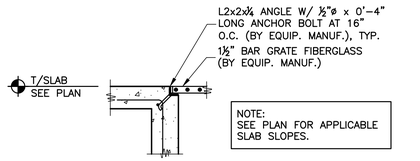
DRAWN BY	REVIEWED BY	PROJ. MGR.	DATE ISSUED
MT	PK		02/10/23

TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION: 8" CMU BEARING WALLS WOOD TRUSS ROOF FRAMING E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL 124' KRITERION PROTOTYPE W/120' CONVEYOR FIN ATTACHMENT
SITE ID: 20089D
SITE ADDRESS: 5363 SOUTHWESTERN BOULEVARD
HAMBURG, NY

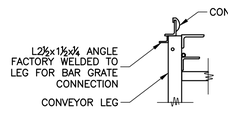
SHEET NO. S3.0
SECTIONS & DETAILS



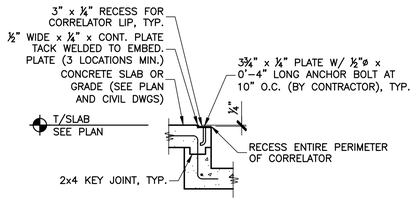
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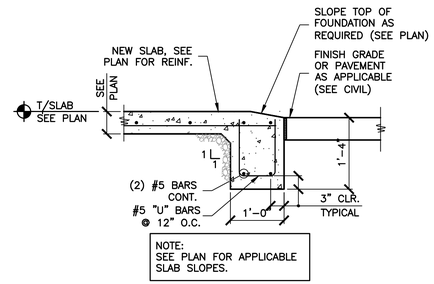
2 S3.1 **DETAIL**
3/4"=1'-0"



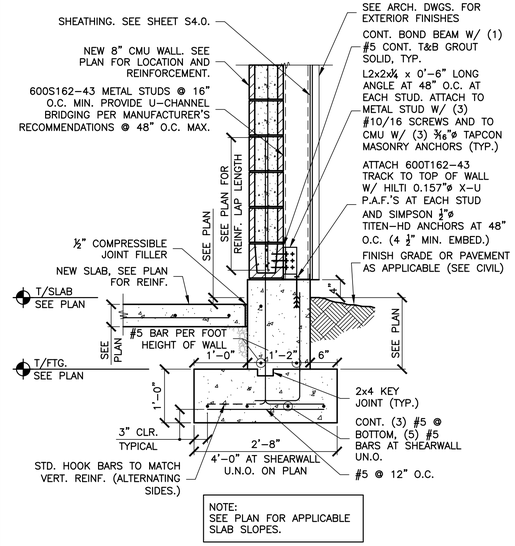
3 S3.1 **DETAIL**
3/4"=1'-0"



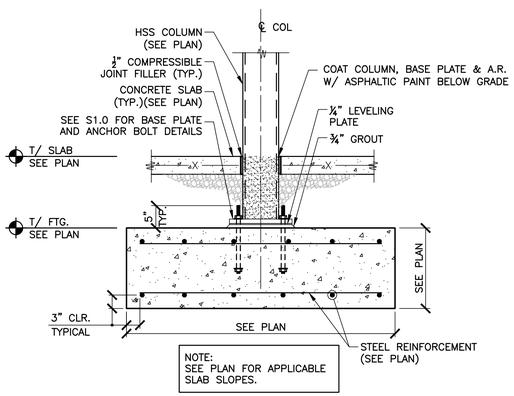
4 S3.1 **DETAIL**
3/4"=1'-0"



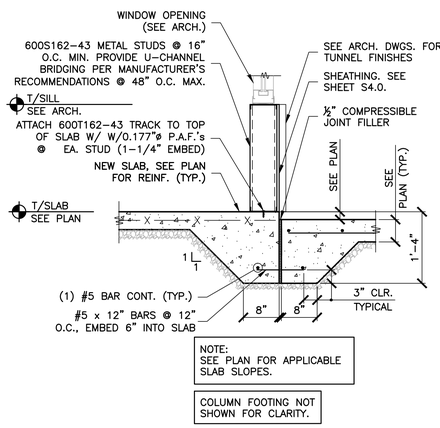
5 S3.1 **SECTION**
3/4"=1'-0"



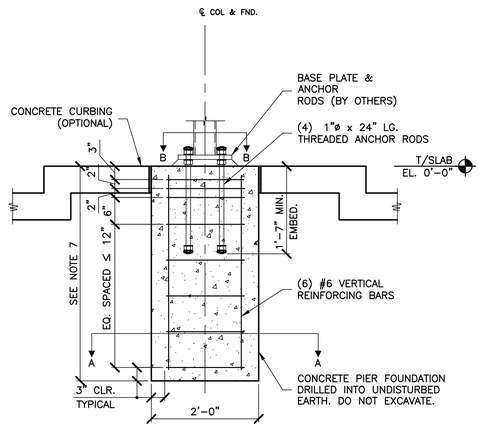
6 S3.1 **SECTION**
3/4"=1'-0"



7 S3.1 **SECTION**
3/4"=1'-0"

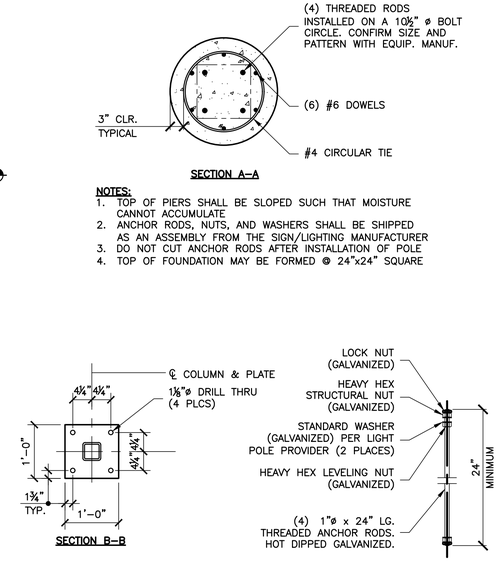


8 S3.1 **SECTION**
3/4"=1'-0"



NOTES:
1. ALL CONCRETE SHALL BE IN ACCORDANCE WITH THE "AMERICAN CONCRETE INSTITUTE BUILDING CODE" (ACI 318) AND WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301)
2. CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000psi
3. ALL REINFORCEMENT TO BE GRADE 60 ASTM A-615 STEEL
4. PIER DEPTHS SHOWN ARE MINIMUM. ALL FOUNDATIONS SHALL EXTEND TO FROST DEPTHS PER LOCAL JURISDICTION
5. TOP OF PIER TO BE SLOPED SUCH THAT MOISTURE DOES NOT ACCUMULATE
6. MINIMUM ALLOWABLE SOIL BEARING PRESSURE ASSUMED TO BE 1500 PSF VERTICAL AND 100 PSF/FT LATERAL
7. PIER DEPTH = 3'-4" IF CURBING AND/OR RESTRAINING SLAB EXISTS. PIER DEPTH = 5'-0" IF CURBING OR RESTRAINING SLAB ARE NOT PRESENT.

9 S3.1 **CANOPY FOUNDATION DETAIL**
3/4"=1'-0"



REV	DATE	DESCRIPTION	BY

STATE OF NEW YORK
PATRICK KELLY
106400
LICENSED PROFESSIONAL ENGINEER
02/10/2023
DATE

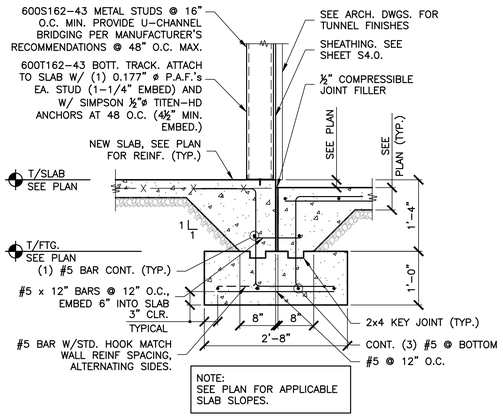
PREPARED BY:
PATRICK KELLY, P.E.
1632 TAPPAHANNOCK TRAIL
MARIETTA, GEORGIA 30062
PHONE: (717) 880-2600

PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY	MT
REVIEWED BY	PK
PROJ. MGR.	
DATE ISSUED	02/10/23
SITE ADDRESS	5363 SOUTHWESTERN BOULEVARD HAMBURG, NY
SITE ID	20089D

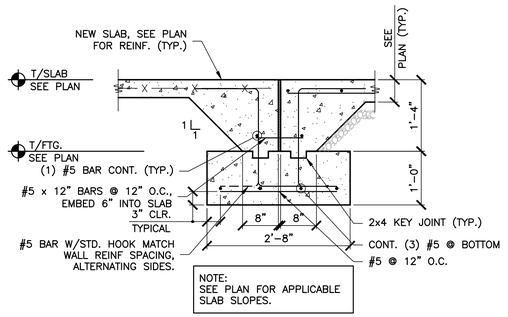
TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION:
8" CMU BEARING WALLS
WOOD TRUSS ROOF FRAMING
E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL
24' X 40' KERNERS PROTOTYPE W/120' CONVEYOR
FIT & FINISH

SHEET NO. S3.1
SECTIONS & DETAILS

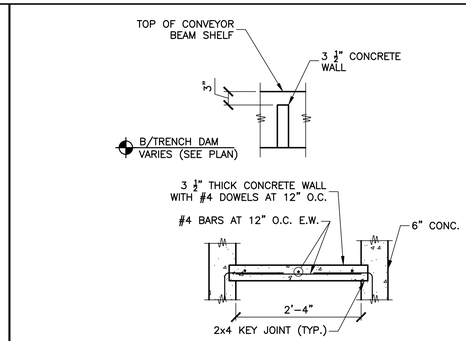


1 S3.2 **SECTION**
3/4"=1'-0"

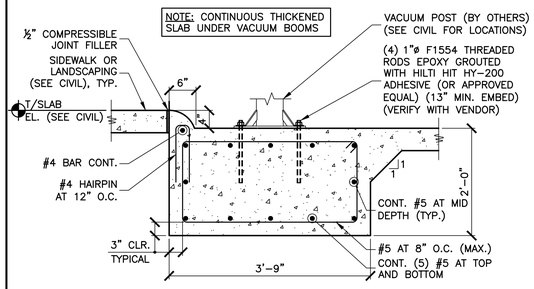
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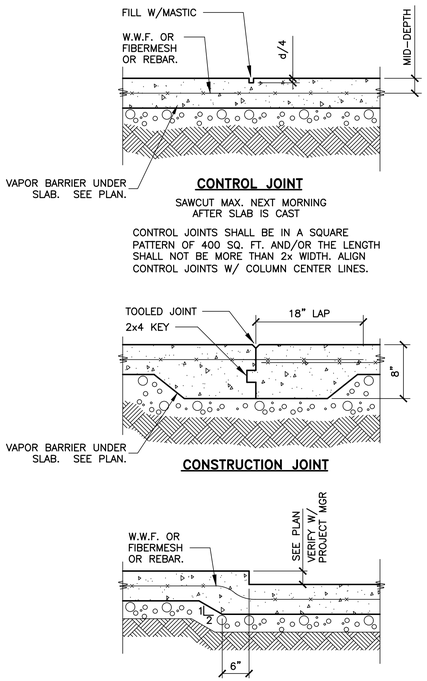
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3/4"=1'-0"



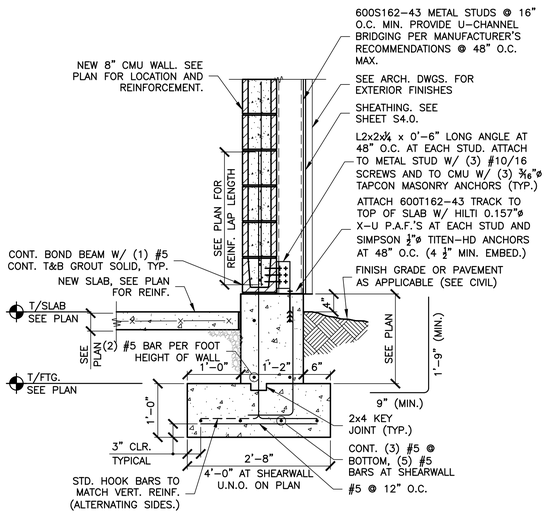
4 S3.2 **DETAIL**
3/4"=1'-0"



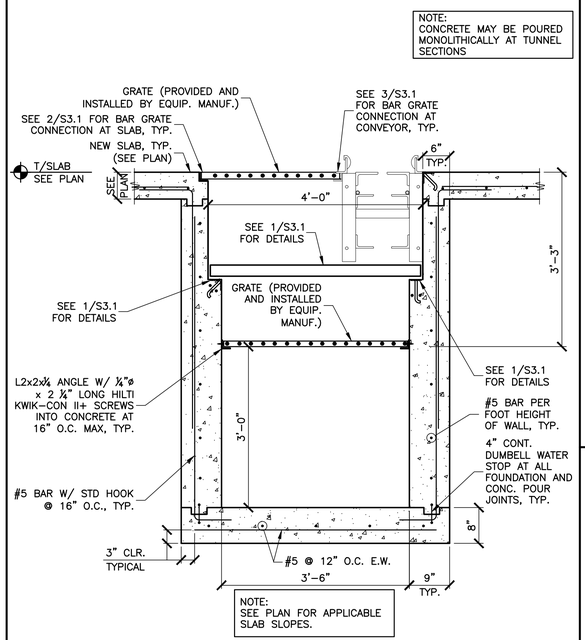
5 S3.2 **DETAIL**
3/4"=1'-0"



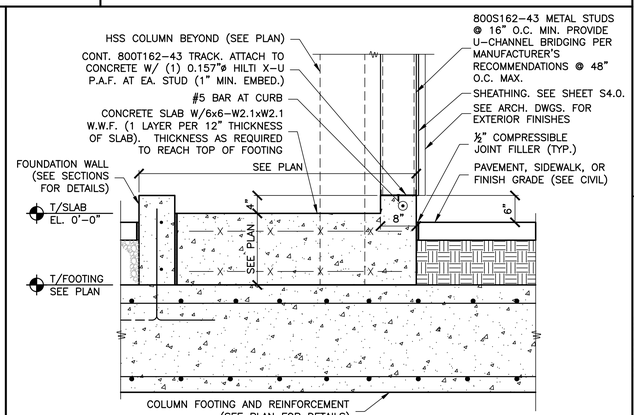
6 S3.2 **DETAIL**
3/4"=1'-0"



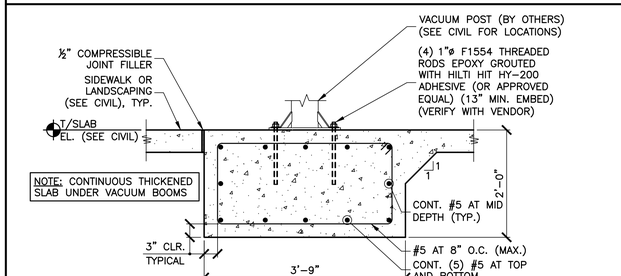
7 S3.2 **SECTION**
3/4"=1'-0"



8 S3.2 **SECTION**
3/4"=1'-0"



9 S3.2 **SECTION**
3/4"=1'-0"



10 S3.2 **DETAIL**
3/4"=1'-0"

BY	DESCRIPTION	DATE	REV

STATE OF NEW YORK
PATRICK KELLY
106400
LICENSED PROFESSIONAL ENGINEER
02/10/2023
DATE

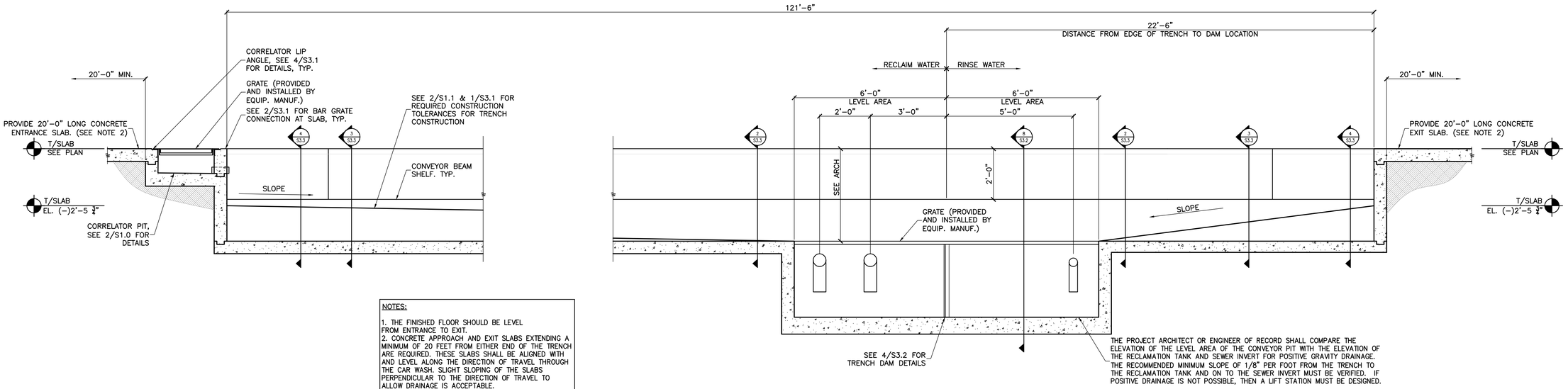
PREPARED BY:
PATRICK KELLY, P.E.
1632 TAPPAHANNOCK TRAIL
MARIETTA, GEORGIA 30062
PHONE: (717) 880-2600

PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY	REVIEWED BY	PROJ. MGR.	DATE ISSUED
MT	PK		02/10/23

TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION: 8" CMU BEARING WALLS; WOOD TRUSS ROOF FRAMING; E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL; 24' KARCHER PROTOTYPE W/120' CONVEYOR
FILE REFERENCE:
SITE ID: 20089D
SITE ADDRESS: 5363 SOUTHWESTERN BOULEVARD
HAMBURG, NY

SHEET NO. S3.2
SECTIONS & DETAILS

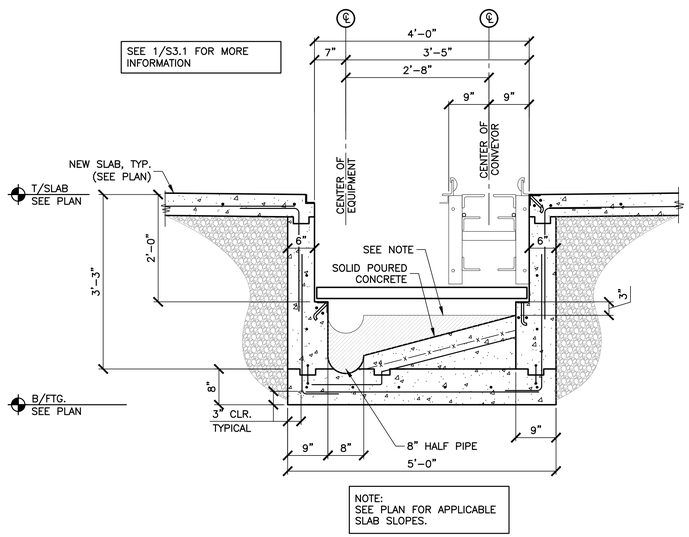


NOTES:

1. THE FINISHED FLOOR SHOULD BE LEVEL FROM ENTRANCE TO EXIT.
2. CONCRETE APPROACH AND EXIT SLABS EXTENDING A MINIMUM OF 20 FEET FROM EITHER END OF THE TRENCH ARE REQUIRED. THESE SLABS SHALL BE ALIGNED WITH AND LEVEL ALONG THE DIRECTION OF TRAVEL THROUGH THE CAR WASH. SLIGHT SLOPING OF THE SLABS PERPENDICULAR TO THE DIRECTION OF TRAVEL TO ALLOW DRAINAGE IS ACCEPTABLE.
3. SEE PLAN FOR APPLICABLE SLAB SLOPES
4. CONCRETE MAY BE POURED MONOLITICHALLY AT TUNNEL SECTIONS

1/S3.3 TRENCH ELEVATION

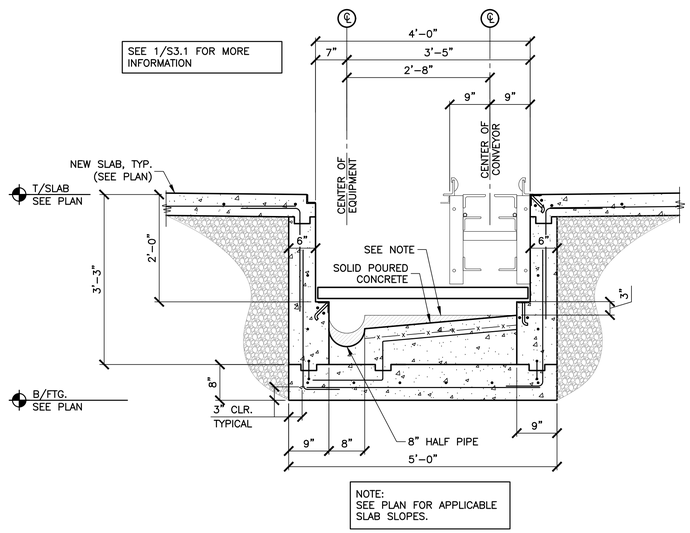
1/2"=1'-0"



NOTE:
SEE PLAN FOR APPLICABLE SLAB SLOPES.

2/S3.3 SECTION

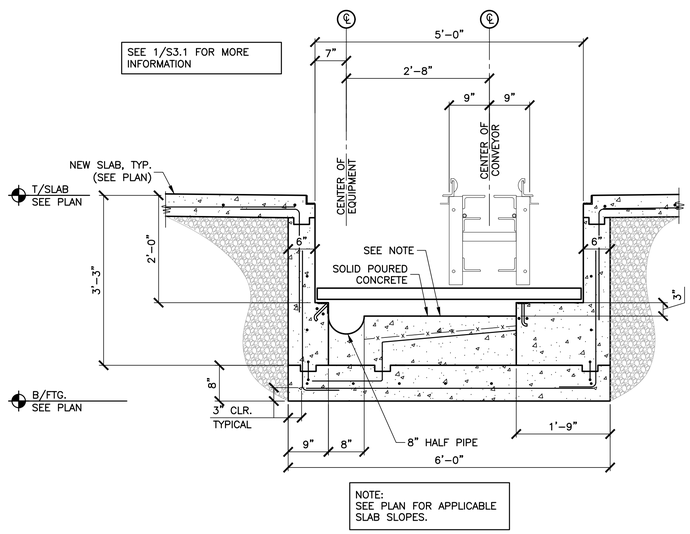
3/4"=1'-0"



NOTE:
SEE PLAN FOR APPLICABLE SLAB SLOPES.

3/S3.3 SECTION

3/4"=1'-0"



NOTE:
SEE PLAN FOR APPLICABLE SLAB SLOPES.

4/S3.3 SECTION

3/4"=1'-0"

BY	DESCRIPTION	DATE	REV

STATE OF NEW YORK
PATRICK KELLY
106400
LICENSED PROFESSIONAL ENGINEER

02/10/2023
DATE

PREPARED BY:
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PHONE: (717) 880-2600

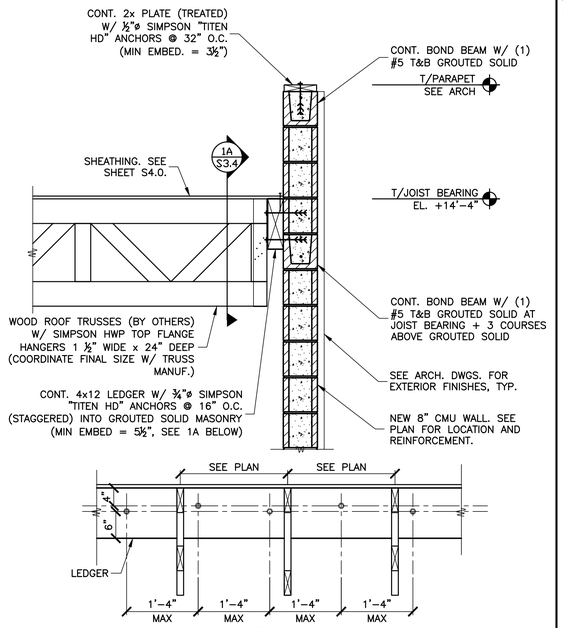
PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY	MT
REVIEWED BY	PK
PROJ. MGR.	
DATE ISSUED	02/10/23
SITE ADDRESS	5363 SOUTHWESTERN BOULEVARD HAMBURG, NY
SITE ID	20089D

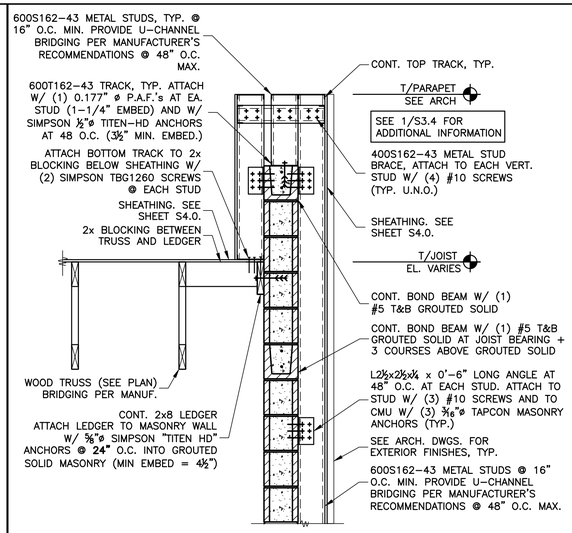
TITLE: MODWASH EXPRESS CARWASH

DESCRIPTION
8" CMU BEARING WALLS
WOOD TRUSS ROOF FRAMING
E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL
124' KRYSTAL KLEAN PROTOTYPE W/120' CONVEYOR FIN ALPHARETTA

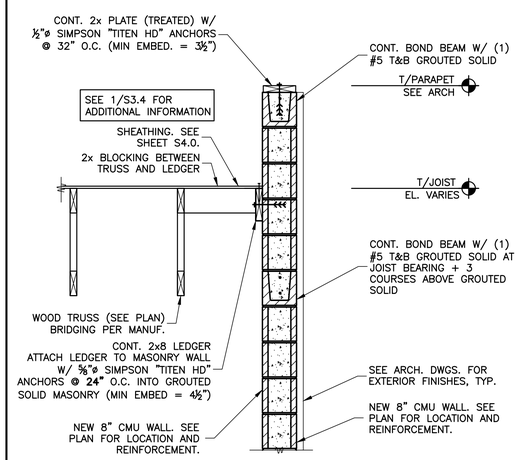
SHEET NO. S3.3
TRENCH ELEVATION



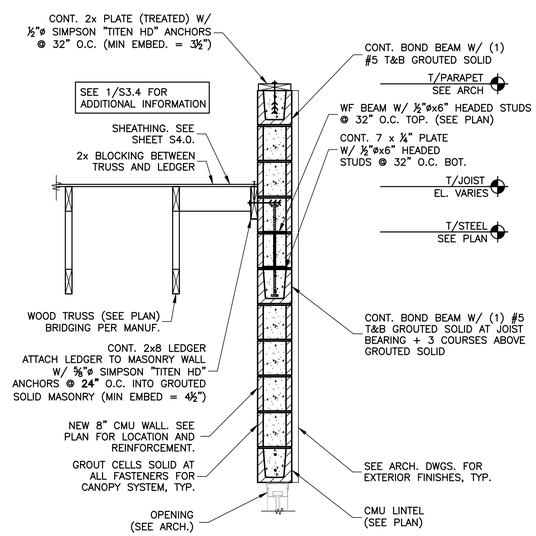
1 S3.4 **SECTION**
3/4"=1'-0"



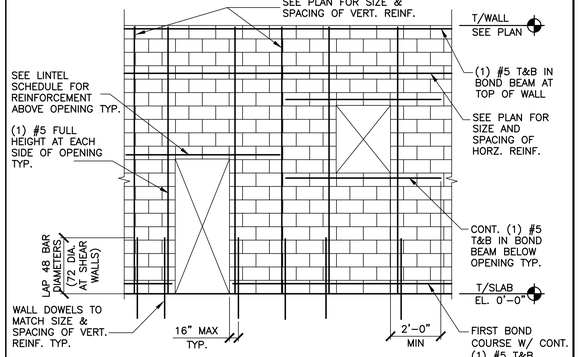
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3/4"=1'-0"



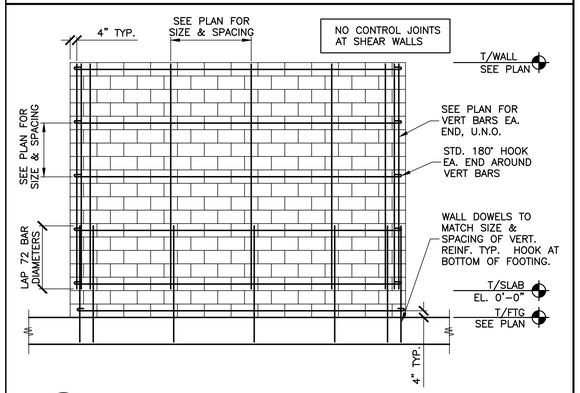
3 S3.4 **SECTION**
3/4"=1'-0"



4 S3.4 **SECTION**
3/4"=1'-0"

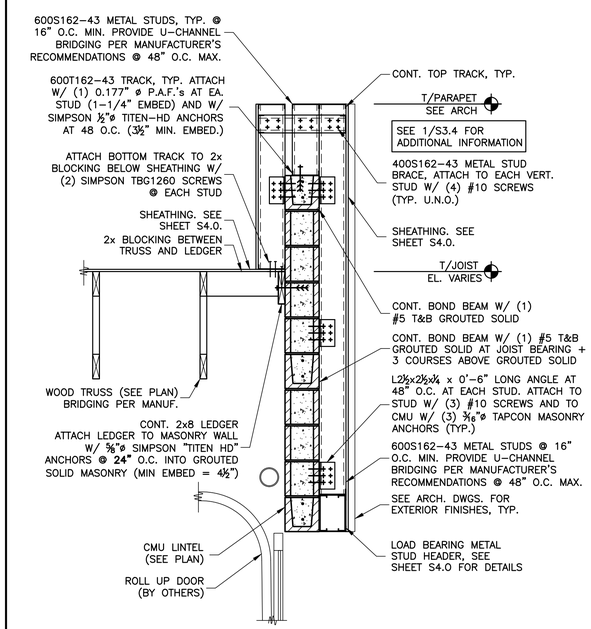


5 S3.4 **CMU WALL REINFORCEMENT DETAIL**
3/4"=1'-0"

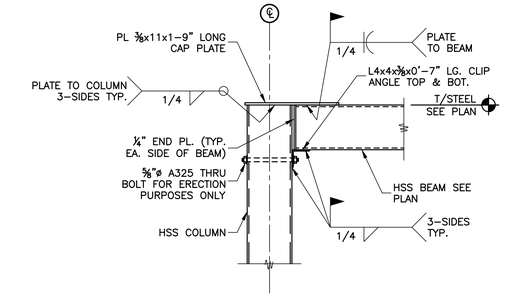


6 S3.4 **SHEAR WALL REINFORCEMENT DETAIL**
3/4"=1'-0"

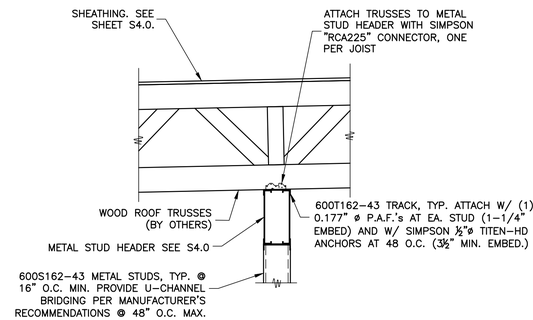
7 S3.4 **SECTION NOT USED**
3/4"=1'-0"



8 S3.4 **SECTION**
3/4"=1'-0"



9 S3.4 **SECTION**
3/4"=1'-0"



10 S3.4 **SECTION**
3/4"=1'-0"

BY	DESCRIPTION	DATE	REV

STATE OF NEW YORK
PATRICK KELLY
LICENSED PROFESSIONAL ENGINEER
106400
02/10/2023
DATE

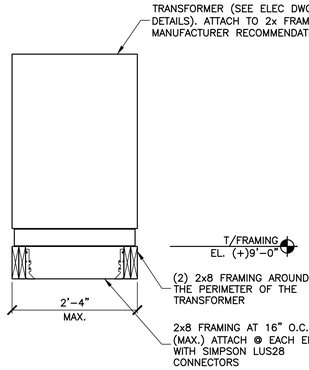
PREPARED BY:
PATRICK KELLY, P.E.
1632 TAPPAHANNOCK TRAIL
MARIETTA, GEORGIA 30062
PHONE: (717) 880-2600

PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

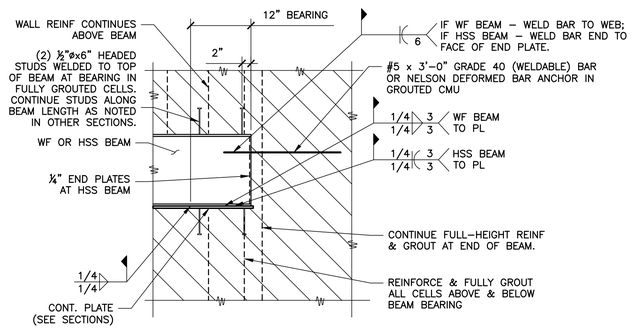
DRAWN BY	REVIEWED BY	PROJ. MGR.	DATE ISSUED
MT	PK		02/10/23

TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION: 8" CMU BEARING WALLS
WOOD TRUSS ROOF FRAMING
E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL
124' NORTHERN PROTOTYPE W/120' CONVEYOR EXTERIOR
SITE ID: 20089D
SITE ADDRESS: 5363 SOUTHWESTERN BOULEVARD HAMBURG, NY

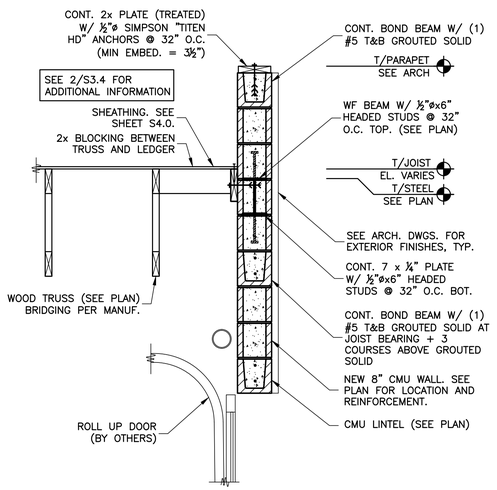
SHEET NO. S3.4
SECTIONS & DETAILS



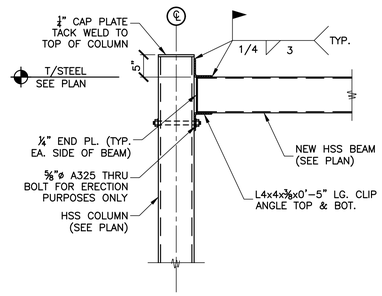
1 S3.5 **DETAIL**
3/4"=1'-0"



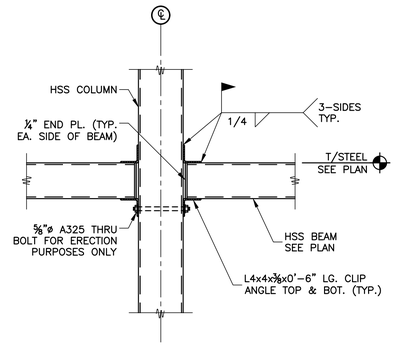
2 S3.5 **DETAIL**
3/4"=1'-0"



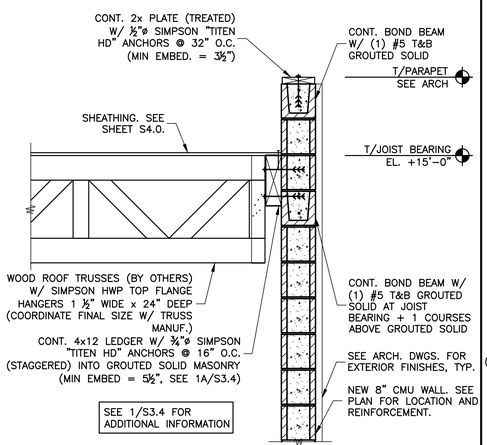
3 S3.5 **SECTION**
3/4"=1'-0"



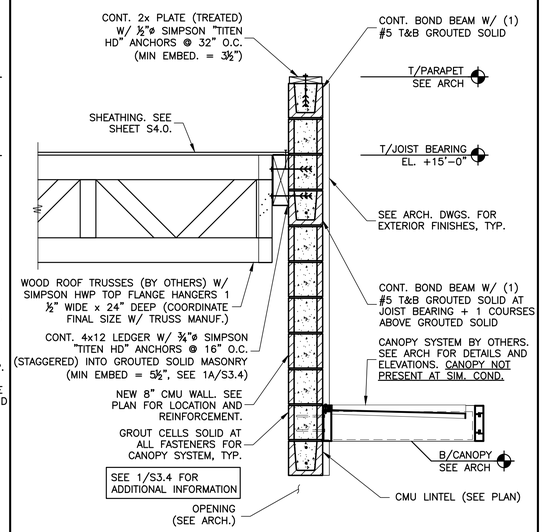
4 S3.5 **DETAIL**
3/4"=1'-0"



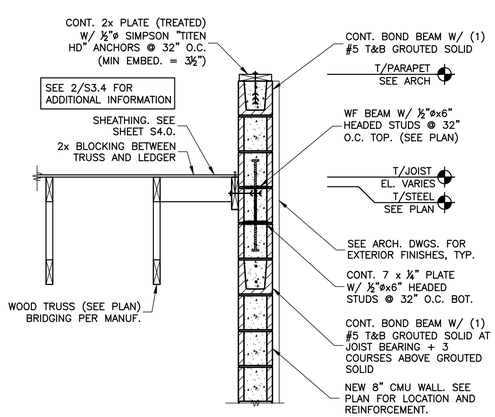
5 S3.5 **DETAIL**
3/4"=1'-0"



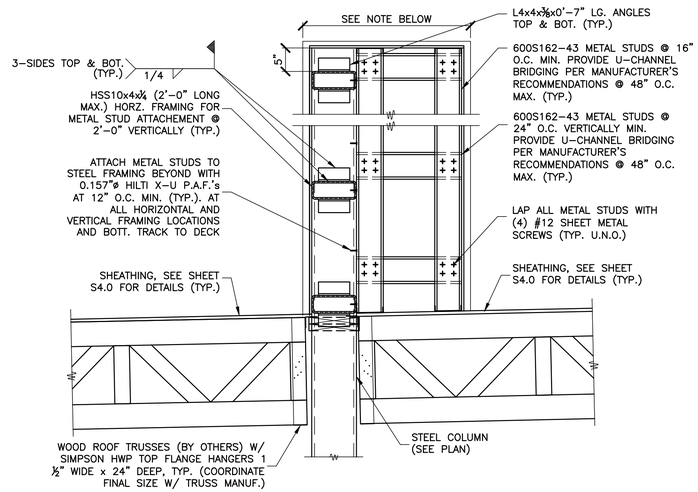
6 S3.5 **SECTION**
3/4"=1'-0"



7 S3.5 **SECTION**
3/4"=1'-0"



8 S3.5 **SECTION**
3/4"=1'-0"



9 S3.5 **SECTION**
3/4"=1'-0"

BY	DESCRIPTION	DATE	REV

STATE OF NEW YORK
PATRICK KELLY
LICENSED PROFESSIONAL ENGINEER
106400
02/10/2023
DATE

PREPARED BY:

PATRICK KELLY, P.E.
1632 TAPPAHANNOCK TRAIL
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PHONE: (717) 880-2600

PREPARED FOR:

Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

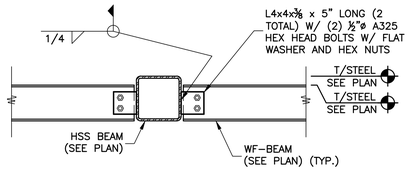
DRAWN BY	REVIEWED BY	PROJ. MGR.	DATE ISSUED
MT	PK		02/10/23

TITLE: MODWASH EXPRESS CARWASH
HAMBURG, NY

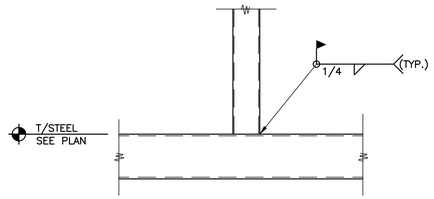
DESCRIPTION
8" CMU BEARING WALLS
WOOD TRUSS ROOF FRAMING
E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL
24' KARCHER PROTOTYPE W/ 120' CONVEYOR
FIT & FINISH

SITE ID: 20089D
SITE ADDRESS: 5363 SOUTHWESTERN BOULEVARD

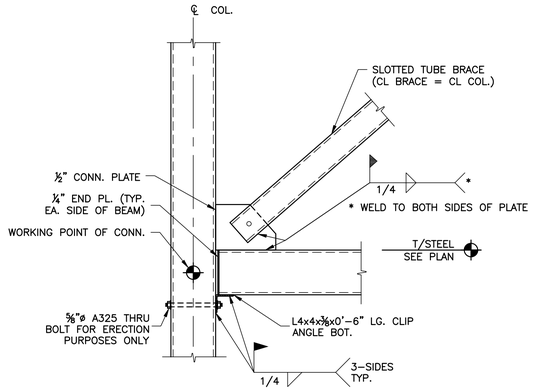
SHEET NO. **S3.5**
SECTIONS & DETAILS



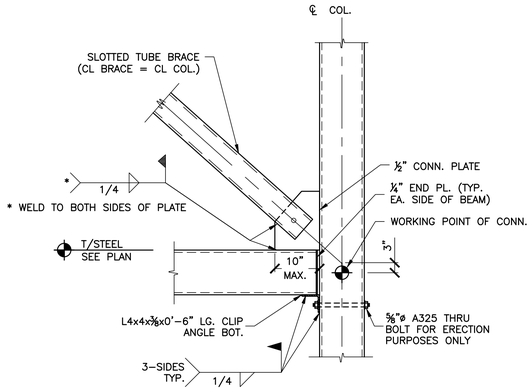
2 S3.6 **DETAIL**
3/4"=1'-0"



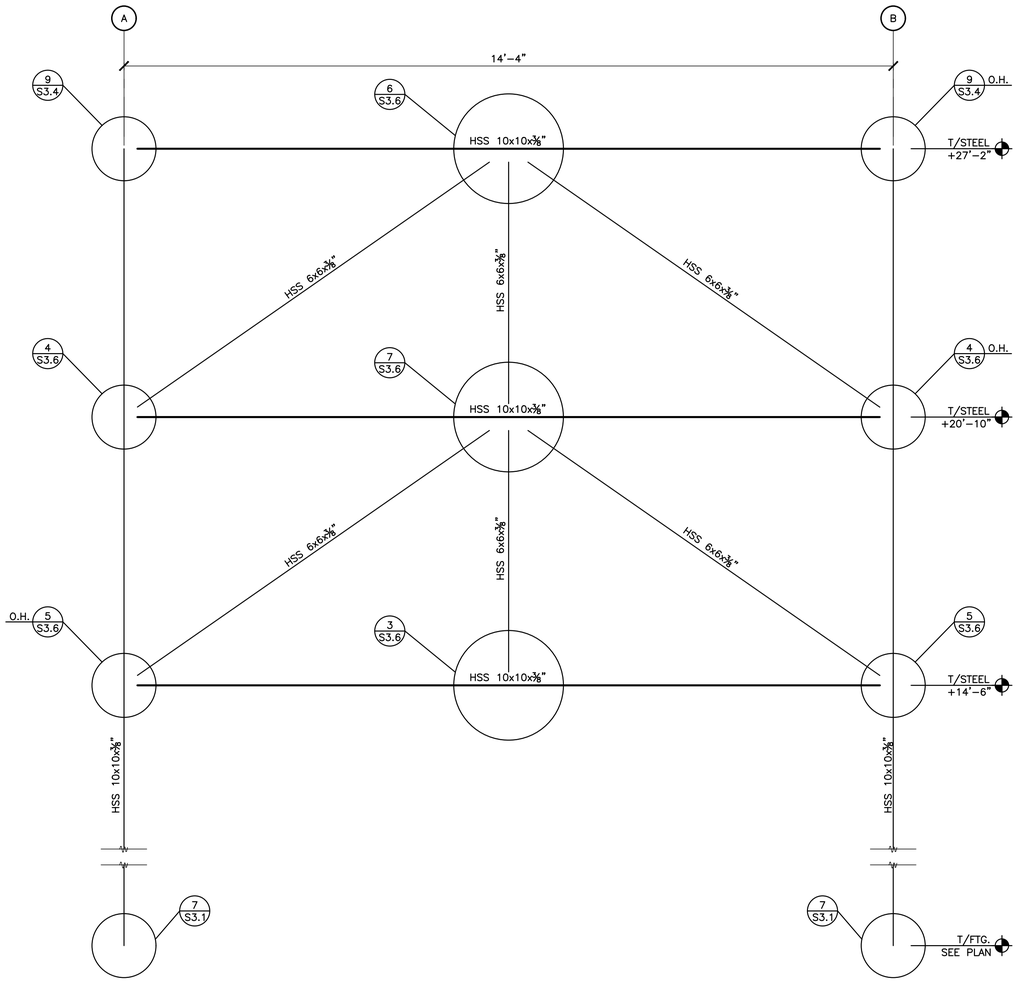
3 S3.6 **DETAIL**
3/4"=1'-0"



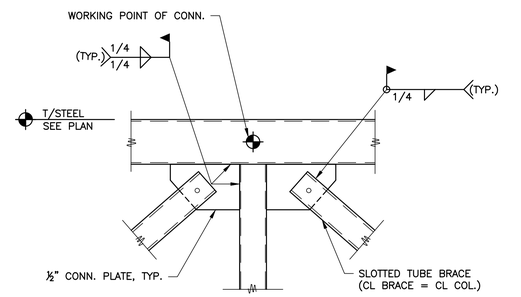
4 S3.6 **DETAIL**
3/4"=1'-0"



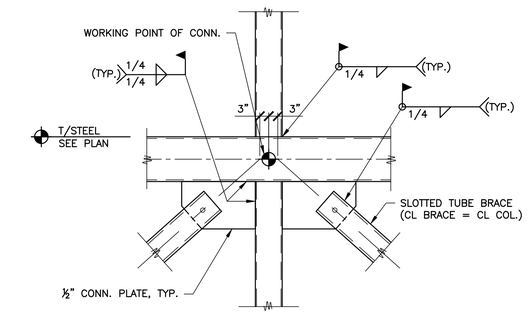
5 S3.6 **DETAIL**
3/4"=1'-0"



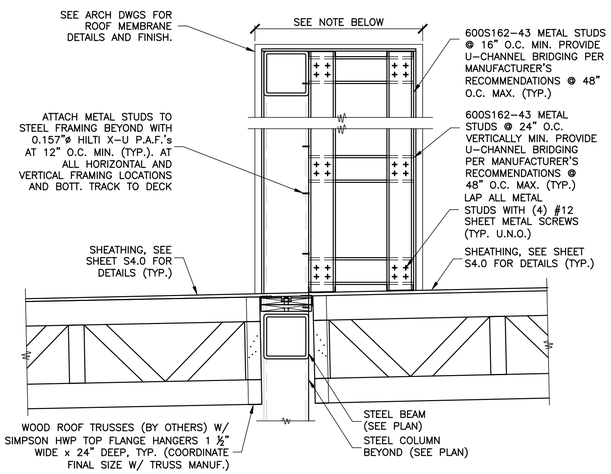
1 S3.6 **BLADE WALL ELEVATION**
3/4"=1'-0"



6 S3.6 **DETAIL**
3/4"=1'-0"



7 S3.6 **DETAIL**
3/4"=1'-0"



8 S3.6 **SECTION**
3/4"=1'-0"

BY	DESCRIPTION	DATE	REV

STATE OF NEW YORK
PATRICK KELLY
106400
LICENSED PROFESSIONAL ENGINEER
02/10/2023
DATE

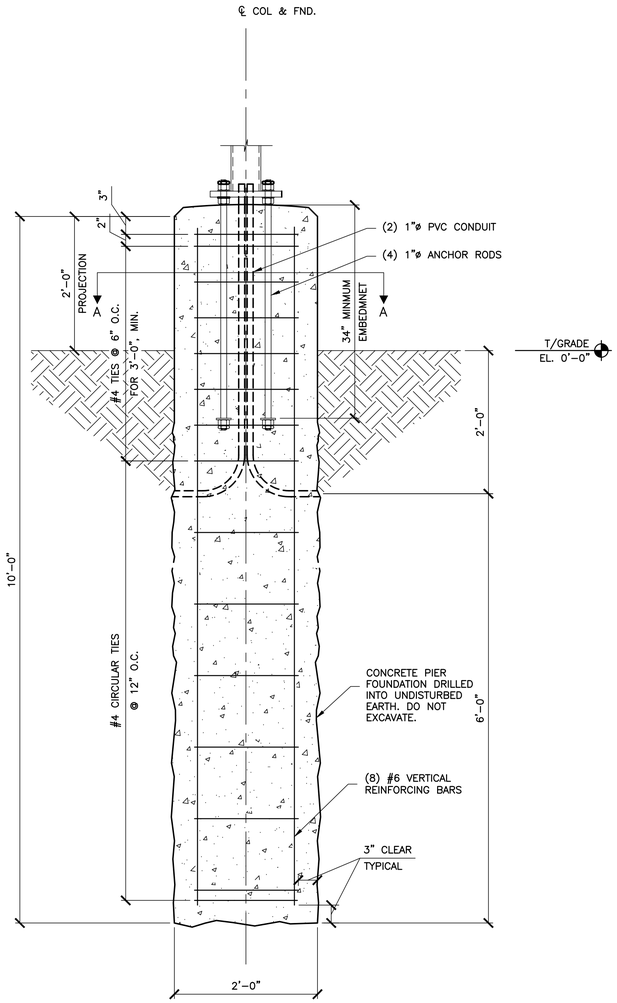
PREPARED BY:
PATRICK KELLY, P.E.
1632 TAPPAHANNOCK TRAIL
MARIETTA, GEORGIA 30062
PHONE: (717) 880-2600

PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY	MT
REVIEWED BY	PK
PROJ. MGR.	
DATE ISSUED	02/10/23
HAMBURG, NY	

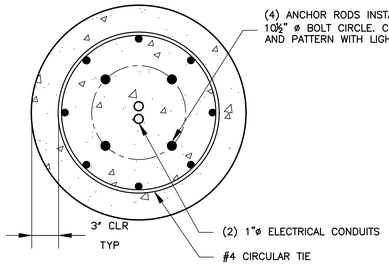
TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION:
8" CMU BEARING WALLS
WOOD TRUSS ROOF FRAMING
E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL
124' NORTHERN PROTOTYPE W/120' CONVEYOR
ENH ATTENDANT
SITE ADDRESS: 5363 SOUTHWESTERN BOULEVARD
SITE ID: 200890

SHEET NO. S3.6
BLADE WALL DETAILS

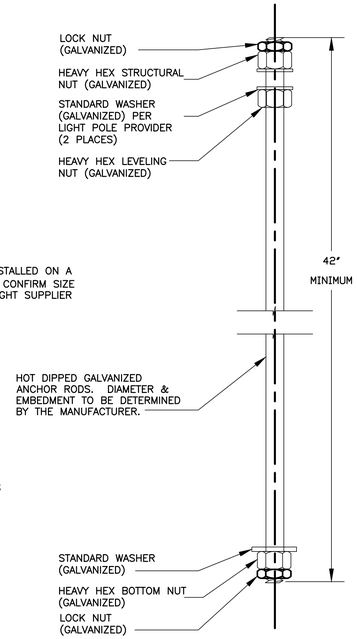


NOTES:
1. THE FOLLOWING DESIGN CODE WERE USED IN DESIGN: AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES, AND TRAFFIC SIGNALS, 5TH EDITION W/ INTERIM REVISIONS.
2. PIER DEPTHS SHOWN ARE MINIMUM. ALL FOUNDATIONS SHALL EXTEND TO FROST DEPTHS PER LOCAL JURISDICTION
3. TOP OF PIER TO BE SLOPED SUCH THAT MOISTURE DOES NOT ACCUMULATE
2. SEE S4.0 FOR SOIL ALLOWABLESALL FOOTING EXCAVATIONS ARE TO BE CLEAR OF WATER AND FOREIGN MATTER BEFORE PLACING CONCRETE.
3. FOOTINGS SHALL BEAR ON FIRM UNDISTURBED RESIDUAL SOIL AND/OR ENGINEERED EARTH FILL COMPACTED TO 98% OF ITS MAXIMUM DRY DENSITY AS PER ASTM D 698-70 (STANDARD PROCTOR) UNLESS NOTED OTHERWISE
4. MINIMUM ALLOWABLE LATERAL SOIL BEARING PRESSURE OF 1OOPSF/FT (x2)
5. TOP 6" OF SOIL NEGLECTED IN EMBEDMENT DEPTH CALCULATIONS (EMBEDMENT DEPTHS SHOWN ARE FROM GRADE)
6. ELECTRICAL CONTRACTOR TO PROVIDE INFORMATION ON CONDUIT AND ELECTRICAL REQUIREMENTS
7. THIS FOUNDATION SHALL NOT BE USED IN LOCATIONS THAT ARE CLOSER THAN 8FT FROM A RETAINING WALL
8. THIS FOUNDATION SHALL NOT BE USED AT LOCATIONS WHERE THE GROUND SLOPE EXCEEDS 4 INCHES PER FOOT.

1 S3.7 LIGHTPOLE FOUNDATION DETAIL
1"=1'-0"

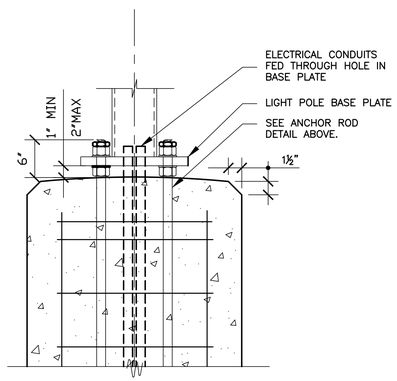


SECTION A-A



NOTES:
1. TOP OF PIERS SHALL BE SLOPED SUCH THAT MOISTURE CANNOT ACCUMULATE
2. ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM THE SIGN/LIGHTING MANUFACTURER
3. DO NOT CUT ANCHOR RODS AFTER INSTALLATION OF POLE

2 S3.7 ANCHOR ROD DETAILS
1 1/2"=1'-0"



NOTES:
1. TOP OF PIERS SHALL BE SLOPED ¼" PER FOOT SUCH THAT MOISTURE CANNOT ACCUMULATE.
2. ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM THE SIGN/LIGHTING MANUFACTURER
3. DO NOT CUT ANCHOR RODS AFTER INSTALLATION OF POLE

3 S3.7 CONNECTION DETAIL
1 1/2"=1'-0"

GENERAL NOTES:

STRUCTURAL STEEL

1. HEADED ANCHOR RODS ASTM F1554 GR 55, AN ACCEPTABLE ALTERNATIVE IS ASTM F1554 GR 55, S1 WHEN THE EMBEDDED END OF THE ROD IS THREADED AND THE NUT TACK WELDED PRIOR TO GALVANIZATION
2. NUTS: ASTM A563A, HEAVY HEX
3. WASHERS: ASTM F844 A36
4. USE ASTM A153 CLASS C HOT DIPPED GALVANIZED BOLTS AND FASTENERS
5. ANCHOR RODS, NUTS, AND WASHERS SHALL BE SHIPPED AS AN ASSEMBLY FROM THE SIGN/LIGHTING MANUFACTURER
6. NO FIELD HEATING TO BEND STEEL SHALL BE ALLOWED WITHOUT ENGINEER'S APPROVAL
7. DO NOT CUT ANCHOR RODS AFTER INSTALLATION OF POLE
8. AFTER INSTALLATION, ALL EXPOSED STEEL SHALL BE PAINTED WITH AN ENAMEL PAINT TO INHIBIT CORROSION
9. ANY FIELD WELDING SHALL FIRST BE VERIFIED BY ENGINEER AND PERFORMED IN ACCORDANCE WITH AWS D1.1

MISCELLANEOUS

1. REFER TO SIGN MANUFACTURER DRAWINGS AND INSTRUCTIONS FOR ADDITIONAL INFORMATION
2. CONTRACTOR (INSTALLER) IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION IN REGARDS TO JOBSITE SAFETY
3. DETAILS AND STRUCTURAL MEMBERS NOT SHOWN DESIGNED BY OTHERS
4. ANY MODIFICATIONS ARE TO BE VERIFIED BY AN ENGINEER

BY	DESCRIPTION	DATE	REV

STATE OF NEW YORK · PATRICK KELLY · 106400 · LICENSED PROFESSIONAL ENGINEER

02/10/2023
DATE

PREPARED BY:
PATRICK KELLY, P.E.
1632 TAPPAHANNOCK TRAIL
MARIETTA, GEORGIA 30062
PHONE: (717) 880-2600

PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

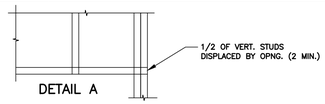
DRAWN BY	REVIEWED BY	PROJ. MGR.	DATE ISSUED
MT	PK		02/10/23

TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION: 8" CMU BEARING WALLS; WOOD TRUSS ROOF FRAMING; E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL; 124' NORTHERN PROTOTYPE W/120' CONVEYOR
ENG. FILE:
SITE ID: 200890
SITE ADDRESS: 5363 SOUTHWESTERN BOULEVARD
HAMBURG, NY

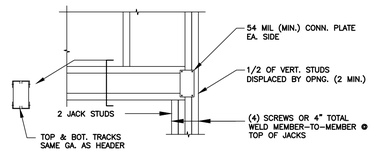
SHEET NO. S3.7
LIGHT POLE DETAILS

NON–LOAD BEARING METAL STUD HEADER SCHEDULE

OPNG.	HEADER SIZE	REMARKS
0'–4'	TRACK ONLY	SEE DETAIL A BELOW
4'–8'	(2) 600S162–43	SEE DETAIL B BELOW
8'–12'	(2) 800S162–43	SEE DETAIL B BELOW

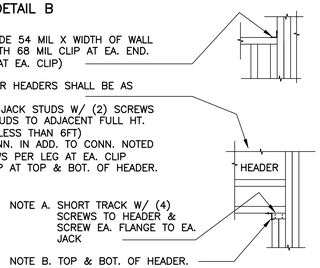


DETAIL A



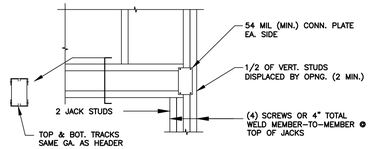
DETAIL B

NOTES:
1. U.N.O., AT SILL, PROVIDE 54 MIL X WIDTH OF WALL STUD CONT. TRACK WITH 68 MIL CLIP AT EA. END. (3 SCREWS PER LEG AT EA. CLIP)
2. U.N.O., END CONN. FOR HEADERS SHALL BE AS FOLLOWS:
   A. THRU CONN. TO JACK STUDS W/ (2) SCREWS @ TOP OF JACK STUDS TO ADJACENT FULL HT. STUD (FOR SPANS LESS THAN 6FT)
   B. 68 MIL CLIP CONN. IN ADD. TO CONN. NOTED IN A W/ (3) SCREWS PER LEG AT EA. CLIP CONN. PROVIDE CLIP AT TOP & BOT. OF HEADER.



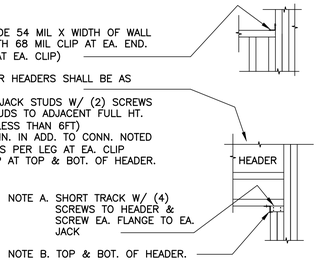
LOAD BEARING METAL STUD HEADER SCHEDULE

OPNG.	HEADER SIZE	REMARKS
0'–4'	(2) 600S162–43	SEE DETAIL BELOW
4'–8'	(2) 800S162–43	SEE DETAIL BELOW
8'–12'	(2) 1000S162–54	SEE DETAIL BELOW
12'–14'	(2) 1200S162–54	SEE DETAIL BELOW



DETAIL

NOTES:
1. U.N.O., AT SILL, PROVIDE 54 MIL X WIDTH OF WALL STUD CONT. TRACK WITH 68 MIL CLIP AT EA. END. (3 SCREWS PER LEG AT EA. CLIP)
2. U.N.O., END CONN. FOR HEADERS SHALL BE AS FOLLOWS:
   A. THRU CONN. TO JACK STUDS W/ (2) SCREWS @ TOP OF JACK STUDS TO ADJACENT FULL HT. STUD (FOR SPANS LESS THAN 6FT)
   B. 68 MIL CLIP CONN. IN ADD. TO CONN. NOTED IN A W/ (3) SCREWS PER LEG AT EA. CLIP CONN. PROVIDE CLIP AT TOP & BOT. OF HEADER.

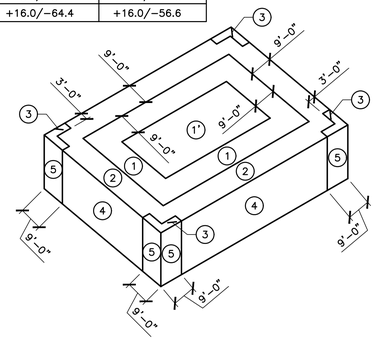


COMPONENTS AND CLADDING WIND PRESSURE (PSF)

V = 115 MPH (EXPOSURE: C) (H=15')

TA	10 SF	50 SF	100 SF
WALLS			
4	+28.8/–31.2	+25.8/–28.2	+24.4/–26.9
5	+28.8/–38.6	+25.8/–32.6	+24.4/–29.9
ROOF			
1	+16.0/–45.9	+16.0/–38.8	+16.0/–35.8
1'	+16.0/–26.4	+16.0/–26.4	+16.0/–26.4
2	+16.0/–60.5	+16.0/–51.4	+16.0/–47.6
3	+16.0/–82.4	+16.0/–64.4	+16.0/–56.6

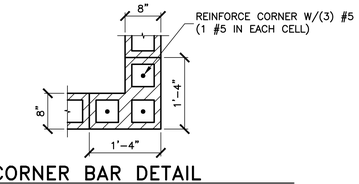
NOTES:
1. LOADS BASED ON ASCE 7 SECTION 30.4.
2. PLUS & MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD & AWAY FROM THE PROJECTED SURFACES, RESPECTIVELY.



CONCRETE BLOCK JOINT REINFORCEMENT:

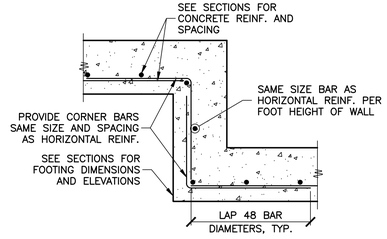
ALL CONCRETE BLOCK WALLS TO RECEIVE THE FOLLOWING JOINT REINFORCEMENT: TRUSS TYPE JOINT REINFORCING WITH SIDE AND DIAGONAL RODS WITH WIRE SIZE (W1.7 OR 3/16"ø) SPACED 16" O.C. VERTICALLY (@ 8" O.C. AT STACKED BOND, AT OPENING LINTELS AND SILLS, AT FOUNDATION WALLS, AT DOWNSPOUTS, AND AT PARAPETS). (HOHMANN & BARNARD 120 "SUPER HEAVY DUTY" OR EQUAL WHERE NO MASONRY VENEER OCCURS AND 170 TRUSS EYE–WIRE "SUPER HEAVY DUTY" AT MASONRY VENEER.) SIMILAR FOR CONCRETE BRICK PRODUCTS.

1 / S4.0 CONCRETE BLOCK JOINT REINFORCEMENT



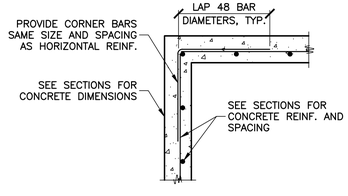
2 / S4.0 CMU CORNER BAR DETAIL

3/4"=1'–0"



3 / S4.0 STEP FOOTING DETAIL

3/4"=1'–0"



4 / S4.0 CONCRETE CORNER BAR DETAIL

3/4"=1'–0"

STRUCTURAL GENERAL NOTES:

DESIGN AND LOADING

THE STRUCTURAL MODIFICATION OF THIS BUILDING WAS BASED ON THE DESIGN CRITERIA:
1. BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE WITH NEW YORK AMENDMENTS
2. FLOOR LIVE LOAD: 100 PSF
3. ROOF LIVE LOAD: 20 PSF
   ROOF DEAD LOAD: 15 PSF
4. BUILDING RISK CATEGORY: II
5. GROUND SNOW LOAD: 50 PSF
6. BASIC WIND SPEED: 115 MPH ULTIMATE
   WIND EXPOSURE: C
   INTERNAL PRESSURE COEFFICIENT: ±0.18
   MWFRS – SEE PRESSURES PER ASCE 7 – 16
   COMPONENTS & CLADDING – SEE TABLE THIS SHEET
   DESIGN BASE SHEAR: 38.5K
7. SEISMIC IMPORTANCE FACTOR: 1.00
   SITE CLASS: C (PER GEOTECH REPORT)
   Ss = 0.153g, S1= 0.043g
   Sds = 0.132g, Sd1 = 0.043g
   SEISMIC DESIGN CATEGORY: A
   SEISMIC FORCE–RESISTING SYSTEMS:
   SPECIAL REINFORCED MASONRY SHEAR WALLS: R = 5.5, Cs = 0.024
8. FLOOD LOAD: N/A
9. SPECIAL LOADS: N/A

STRUCTURAL STEEL

STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC "STEEL CONSTRUCTION MANUAL", 14TH EDITION.
STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:

A.	ANCHOR RODS	F1554, GRADE 36
B.	HIGH STRENGTH STRUCTURAL BOLTS	A325–N U.N.O.
C.	STRUCTURAL SHAPES (W, WT)	A992
D.	STRUCTURAL SHAPES (M, S, C, MC, PLATES)	A36
E.	STRUCTURAL SHAPES (HP)	A572
F.	STRUCTURAL TUBING (HSS)	A500 GRADE B
G.	STRUCTURAL ANGLES	A36

ALL WELDING ELECTRODES SHALL BE E70–XX. ALL SHOP AND FIELD WELDING SHALL BE MADE IN ACCORDANCE WITH A.W.S. D1.1 "CODE FOR WELDING IN BUILDING CONSTRUCTION" AND SHALL BE MADE BY CERTIFIED WELDERS.
STRUCTURAL STEEL EXPOSED TO WEATHER, INCLUDING LINTELS, SHALL BE GALVANIZED.
STRUCTURAL STEEL CONNECTIONS SHALL PROVIDE A ½" NOMINAL SETBACK FOR ERECTION PURPOSES IN ACCORDANCE WITH AISC SECTION 10.

FOUNDATION NOTES

THE FOUNDATION DESIGN OF THIS BUILDING WAS BASED ON THE FOLLOWING CRITERIA:
1. MAXIMUM ALLOWABLE SOIL BEARING CAPACITY = 2500 PSF AS STATED IN THE GEOTECHNICAL REPORT BY TERRACON CONSULTANTS DATED JULY 1, 2022 (TERRACON PROJECT No. J5225155).
2. ANY FILL REQUIRED BELOW SLABS ON GRADE OR FOOTINGS SHALL BE COMPACTED IN ACCORDANCE WITH THE RECOMMENDATION OF THE GEOTECHNICAL ENGINEER.

ALL EXTERIOR FOOTINGS SHALL EXTEND BELOW THE MAXIMUM ANTICIPATED DEPTH OF FROST.
THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OR ENGINEER OF RECORD IMMEDIATELY IN THE EVENT THAT THE SOILS CONDITIONS ENCOUNTERED VARY FROM THOSE ANTICIPATED ABOVE.
ALL FOUNDATION EXCAVATIONS SHALL BE INSPECTED BY A SOILS TESTING LABORATORY PRIOR TO PLACEMENT OF CONCRETE.

MASONRY

CONCRETE BLOCK DESIGN AND CONSTRUCTION SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES," TMS 402/ACI 530/ASCE 5 AND "SPECIFICATIONS FOR MASONRY STRUCTURES" (TMS 602/ACI 530.1/ASCE 6)

1. MASONRY MATERIALS SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING SPECIFICATIONS:
   A. HOLLOW LOAD BEARING CONCRETE BLOCK: ASTM C–90. MINIMUM COMPRESSIVE STRENGTH = 1900 PSI AT 28 DAYS.
   B. MORTAR: ASTM C–270, TYPE S. MINIMUM COMPRESSIVE STRENGTH = 1800 PSI AT 28 DAYS.
   C. MORTAR: ASTM C–270, TYPE M. MINIMUM COMPRESSIVE STRENGTH = 2500 PSI AT 28 DAYS. (USED FOR BELOW GRADE WORK)
   D. GROUT: ASTM C–476. MINIMUM COMPRESSIVE STRENGTH = 2000 PSI AT 28 DAYS
   E. MASONRY REINFORCEMENT: ASTM A–82 GALVANIZED
   F. MASONRY PRISM STRENGTH: F'm = 1500 PSI
3. PRIOR TO DELIVERY OF MASONRY UNITS TO THE JOB SITE, FURNISH TO THE OWNER AFFIDAVITS FROM AN APPROVED TESTING LABORATORY CERTIFYING THAT ALL UNITS CONFORM TO THEIR RESPECTIVE ASTM REQUIREMENTS.
4. GROUT ALL CAVITIES CONTAINING REINFORCEMENT IN LIFTS NOT TO EXCEED 5'–4".
5. LABORATORY PREPARED MIXES SHALL BE PREPARED AND TESTED IN ACCORDANCE WITH ASTM C–270. FIELD MORTAR SHALL BE TESTED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH ASTM C–780 TWO SETS OF THREE MORTAR CUBES SHALL BE TAKEN DIRECTLY FROM THE MIXER FOR EACH DAY OF MASONRY WORK. TEST THE CUBES AT 28 DAYS. ACCEPTANCE OF THE MORTAR SHALL BE AT THE DISCRETION OF THE ENGINEER.
6. CALCIUM CHLORIDE AND/OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE INCLUDED IN MORTAR OR GROUT MIX, EXCEPT WHEN APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. NO ANTI FREEZE COMPOUNDS SHALL BE USED TO LOWER THE MORTAR'S FREEZING POINT.
7. NO EXTERIOR MASONRY SHALL BE LAID WHEN THE OUTSIDE AIR TEMPERATURE IS LESS THAN 40 DEGREES FAHRENHEIT, UNLESS THE RECOMMENDATIONS SPECIFIED BY THE BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" TMS 402/ACI 530/ASCE 5 AND "SPECIFICATIONS FOR MASONRY STRUCTURES" (TMS 602/ACI 530.1/ASCE 6) FOR COLD WEATHER CONSTRUCTION ARE STRICTLY FOLLOWED.
8. THE MASONRY CONTRACTOR SHALL PROVIDE BRACING TO WITHSTAND HORIZONTAL PRESSURES AS REQUIRED BY THE BUILDING CODE AND LOCAL ORDINANCE.

SHOP DRAWINGS

SHOP DRAWING SUBMITTALS SHALL CONSIST OF A MINIMUM OF 2 REPRODUCIBLES OF EACH DRAWING.
SHOP DRAWINGS SHALL BE REVIEWED BY CONTRACTOR TO VERIFY THAT SUBMITTAL IS COMPLETE PRIOR TO SUBMITTING TO ARCHITECT/ENGINEER.
DRAWINGS CREATED CANNOT BE REPRODUCED AND/OR USED AS A SHOP DRAWING SUBMITTAL.
SHOP DRAWING SUBMITTALS SHALL INCLUDE THE FOLLOWING:
1. REINFORCING BARS
2. STRUCTURAL STEEL
3. WOOD ROOF TRUSSES*

* **INDICATES SHOP DRAWING SUBMITTALS TO BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROJECT STATE.**

SAWN LUMBER

ALL GRADES OF LUMBER SHALL BE RATED BY THE SOUTHERN PINE INSPECTION BUREAU (SPIB), OR THE WESTERN WOOD PRODUCTS ASSOCIATION (WWPA). LUMBER GRADES SHALL BE AS FOLLOWS, WITH A MAXIMUM MOISTURE CONTENT OF 19%:
- SOUTHERN PINE NO. 2 OR BETTER U.N.O.
- DOUGLAS FIR–LARCH NO. 2 OR BETTER U.N.O.

BOLT HEADS AND NUTS BEARING ON WOOD SHALL BE PROVIDED WITH STANDARD CUT WASHERS. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE FOUNDATION GRADE PRESSURE–TREATED, AND GALVANIZED NAILS SHALL BE USED.

MINIMUM NAILED CONNECTIONS FOR WOOD FRAMING MEMBERS SHALL BE IN ACCORDANCE WITH THE LOCAL BUILDING CODE OR IBC TABLE 2304.10.1, IF NO OTHER CRITERIA IS GIVEN.
CONNECTORS SHOWN ON THE DETAILS ARE MANUFACTURED BY SIMPSON STRONG–TIE. WRITTEN APPROVAL BY THE ENGINEER–OF–RECORD IS REQUIRED FOR SUBSTITUTIONS.
WOOD FRAMING MEMBERS THAT ARE IN CONTACT WITH EXTERIOR FOUNDATION WALLS AND ARE LESS THAN 8 INCHES FROM EXPOSED EARTH SHALL BE OF NATURALLY DURABLE OR PRESERVATIVE–TREATED WOOD.

CONCRETE AND REINFORCING

ALL CONCRETE SHALL BE IN ACCORDANCE WITH THE "AMERICAN CONCRETE INSTITUTE BUILDING CODE" (ACI 318) AND WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301) LATEST EDITIONS.

ALL NORMAL WEIGHT CONCRETE (145 PCF) SHALL OBTAIN A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI (3500 PSI FOR SLABS AND 4000 PSI AT SHEARWALL FOUNDATION LOCATIONS).
ALL CONCRETE SUBJECT TO EXTERIOR EXPOSURE SHALL BE AIR ENTRAINED AS RECOMMENDED BY ACI 318.
TEST CYLINDERS SHALL BE MADE AND TESTED AS OUTLINED IN CHAPTER 16 OF ACI–301.

REINFORCING BARS SHALL BE DEFORMED BARS OF NEW BILLET STEEL CONFORMING TO ASTM A–615, GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A–185. ALL REINFORCING AND ACCESSORIES SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI STANDARD 315 AND 315R.

PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCEMENT AT POSITIONS SHOWN ON THE PLANS AND DETAILS. PLASTIC COATED ACCESSORIES SHALL BE USED IN ALL EXPOSED CONCRETE WORK.

THE GENERAL CONTRACTOR SHALL CHECK WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND THE SUB–CONTRACTORS FOR OPENINGS, SLEEVES, ANCHORS, HANGERS, INSERTS, SLAB DEPRESSIONS AND OTHER ITEMS RELATED TO THE CONCRETE WORK AND SHALL ASSUME RESPONSIBILITY FOR THEIR PROPER LOCATION.

LAP ALL REINFORCING BARS 50 BAR DIAMETERS UNLESS NOTED OTHERWISE.

SHEATHING

ALL SHEATHING SHALL CONFORM TO THE APA – THE ENGINEERED WOOD ASSOCIATION DESIGN SPECIFICATIONS. SHEATHING SHALL BE CONTINUOUS OVER THREE ADJACENT SPANS MINIMUM.

WALL SHEATHING SHALL BE 15/32" (1/2" NOMINAL) APA RATED SHEATHING, EXPOSURE 1, 32/16, U.N.O. ALL WALL SHEATHING SHALL BE FASTENED TO SUPPORTING MEMBERS W/ 8d COMMON NAILS (FOR WOOD) OR #10 SCREWS (FOR COLD–FORMED STEEL) @ 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS, U.N.O.

ROOF SHEATHING SHALL BE 19/32" (5/8" NOMINAL) APA RATED SHEATHING, EXPOSURE 1, 40/20, UNO. THE ROOF SHEATHING DIAPHRAGM SHALL BE UNBLOCKED AND FASTENED TO SUPPORTING MEMBERS W/10d COMMON NAILS OR #10 SCREWS (FOR COLD–FORMED STEEL) @ 6" O.C. AT PANEL EDGES, AND 6" O.C. AT INTERMEDIATE SUPPORTS. U.N.O.

ALL ROOF SHEATHING SHALL BE TONGUE & GROOVE OR PROVIDE SIMPSON "PSC" PANEL CLIPS, MIN. ONE CLIP PER SIDE TO ALLOW FOR EXPANSION.

REFER TO DRAWINGS FOR SPECIAL SHEATHING OR NAILING REQUIREMENTS. THE SHEATHING SHALL NOT BE USED AS A NAILING EDGE.

ROOF PANEL DIMENSIONS SHALL NOT BE LESS THAN 24" UNLESS ALL EDGES OF THE UNDERSIZED PANELS ARE SUPPORTED BY FRAMING MEMBERS OR BLOCKING.

ALL SHEATHING THAT IS IN CONTACT WITH EXTERIOR FOUNDATION WALLS AND IS LESS THAN 8 INCHES FROM EXPOSED EARTH SHALL BE OF NATURALLY DURABLE OR PRESERVATIVE–TREATED WOOD.

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH IBC SECTION 1705 AND THE STATEMENT OF SPECIAL INSPECTIONS. THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED UNDER SECTION 1705. THE FOLLOWING AREAS OF WORK REQUIRE SPECIAL INSPECTIONS IN ACCORDANCE WITH THE LISTED IBC SECTIONS/LOCATIONS AND OTHER PUBLICATIONS:
1. SOILS – SECTION 1705.6 PER TABLE 1705.6.
2. CONCRETE – SECTION 1705.3 PER TABLE 1705.3.
3. STEEL – AISC 360–10, CHAPTER N.
4. MASONRY – SECTION 1705.4, AND PER TMS402/ACI530/ASCE5 AND TMS402/ACI530.1/ASCE6, TABLE 1.19.2, LEVEL B QUALITY ASSURANCE.

MISCELLANEOUS

ALL DIMENSIONS ON STRUCTURAL DRAWINGS TO BE CHECKED AGAINST ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS BY THE GENERAL CONTRACTOR AND ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT IMMEDIATELY.

THE CONTRACTOR SHALL ASSUME RESPONSIBILITY, UNRELIEVED BY REVIEW OF SHOP DRAWINGS OR PERIODIC OBSERVATION OF CONSTRUCTION, FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS, FOR FABRICATION PROCESSES AND CONSTRUCTION TECHNIQUES, AND FOR SAFE CONDITIONS ON THE JOB SITE.

DO NOT SCALE THE DRAWINGS.

COLD–FORMED METAL FRAMING (METAL STUDS)

DESIGN, FABRICATION AND ERECTION SHALL CONFORM TO AISI "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION. ALL METAL STUDS SHALL BE GALVANIZED.

MINIMUM YIELD STRENGTH (FY) FOR MATERIAL IS 33,000 PSI FOR 33 AND 43 MILS MATERIALS, AND 50,000 PSI FOR 54, 68, AND 97 MILS MATERIALS.

ALL STUDS, JOISTS, TRACK, BRIDGING, END CLOSURES AND ACCESSORIES SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE REQUIREMENTS OF AISI.

SELF–DRILLING OR TAPPING SCREW FASTENERS SHALL BE IN ACCORDANCE WITH ASTM C1513 OR AN APPROVED DESIGN. ALL SCREWS SHALL BE NON–CORROSIVE NO. 12–14 STANDARD SELF DRILLING SCREWS U.N.O.

ALL POWDER ACTUATED FASTENERS (PAF) SHALL BE 0.177 DIA. IF ATTACHING TO POST TENSIONED CONCRETE USE 0.145" DIA. WITH ¾" MAX EMBED.

ALL SCREWS SHALL BE SPACED NO CLOSER THAN 1" O.C. U.N.O. MIN EDGE DISTANCE FOR SCREWS SHALL BE 1".

TRACKS SHALL BE SAME DEPTH AS STUDS U.N.O. AND EQUAL OR THICKER GA. TRACKS SHALL BE CONNECTED TO SUPPORTS WITH TWO SCREWS @16" MAX. STUDS OR JOISTS SHALL BE CONNECTED TO TRACKS AT EACH SIDE.

ALL WALLS SHALL HAVE BRIDGING @ 4'–0" O.C. MAX. IF FULL HT. SHEATHING IS NOT INSTALLED ON BOTH SIDES OF STUDS.

CONTINUOUS BRIDGING MAY CONSIST OF 1 ½"–33 MILS STRAPS, (2 ½"–43 MILS AT WALLS USED AS SHEAR WALLS OR WALLS WITH STRAP BRACING) SCREW ATTACHED TO BOTH FLANGES OF EA. STUD WITH SOLID BLOCKING REQUIRED AT 12' O.C. MAX. EA. END OF WALL AND ADJACENT TO EA. OPENING. (FASTEN STRAPS W/ (1) #8 SCREW MIN. TO EA. STUD AND (2) #8 SCREW MIN. TO EA. BLOCKING). BLOCKING MAY BE MADE FROM 33 MILS STUD MATERIAL ATTACHED WITH 54 MIL CLIP ANGLE WITH (2) SCREWS PER ANGLE FLANGE. AS AN ALTERNATE BRIDGING, FOR 3 ⅝" OR 4" STUDS ONLY, PROVIDE 1 ½" CRC CHANNEL BRIDGING (150U50–54) AT THE CENTERLINE OF STUDS WITH (2) SCREWS PER ANGLE FLANGE.

ALL BRIDGING MUST BE CONT. FOR FULL LENGTH OF WALL OR PROPERLY SPLICED WITH AN APPROVED SPLICE ELEMENT.

FOR ALL FULL HT. STUD WALLS (WALLS WITH BASE SUPPORT AT FND.), PROVIDE CLIP SUPPORT WITH VERTICAL SLIP CAPACITY OR SLIP TRACK AT TOP TRACK CONN. TO ALLOW FOR ¾" LIVE LOAD DEFLECTION OF STRUCTURE ABOVE STUD WALL.

MULTIPLE STUD COLUMNS (INCLUDING JACK/FULL HT. STUD ASSEMBLIES EA. SIDE OF OPENINGS) SHALL BE WELDED TOGETHER AT BOTH FLANGES WITH 2" TOP AND BOT. AND 1" AT 24" O.C. BETWEEN. IF SCREWED CONN. REQUIRED TO FASTEN STUDS, PROVIDE (2) ROWS OF SCREWS AT SPACING NOTED FOR WELDS, FASTENED AT WEBS.

BY	DESCRIPTION	DATE	REV

STATE OF NEW YORK · PATRICK KELLY · 106400 · LICENSED PROFESSIONAL ENGINEER

02/10/2023
DATE

PREPARED BY:
PATRICK KELLY, P.E.
1632 TAPPAHANNOCK TRAIL
MARIETTA, GEORGIA 30062
PHONE: (717) 880-2600

PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY	REVIEWED BY	PROJ. MGR.	DATE ISSUED
MT	PK		02/10/23

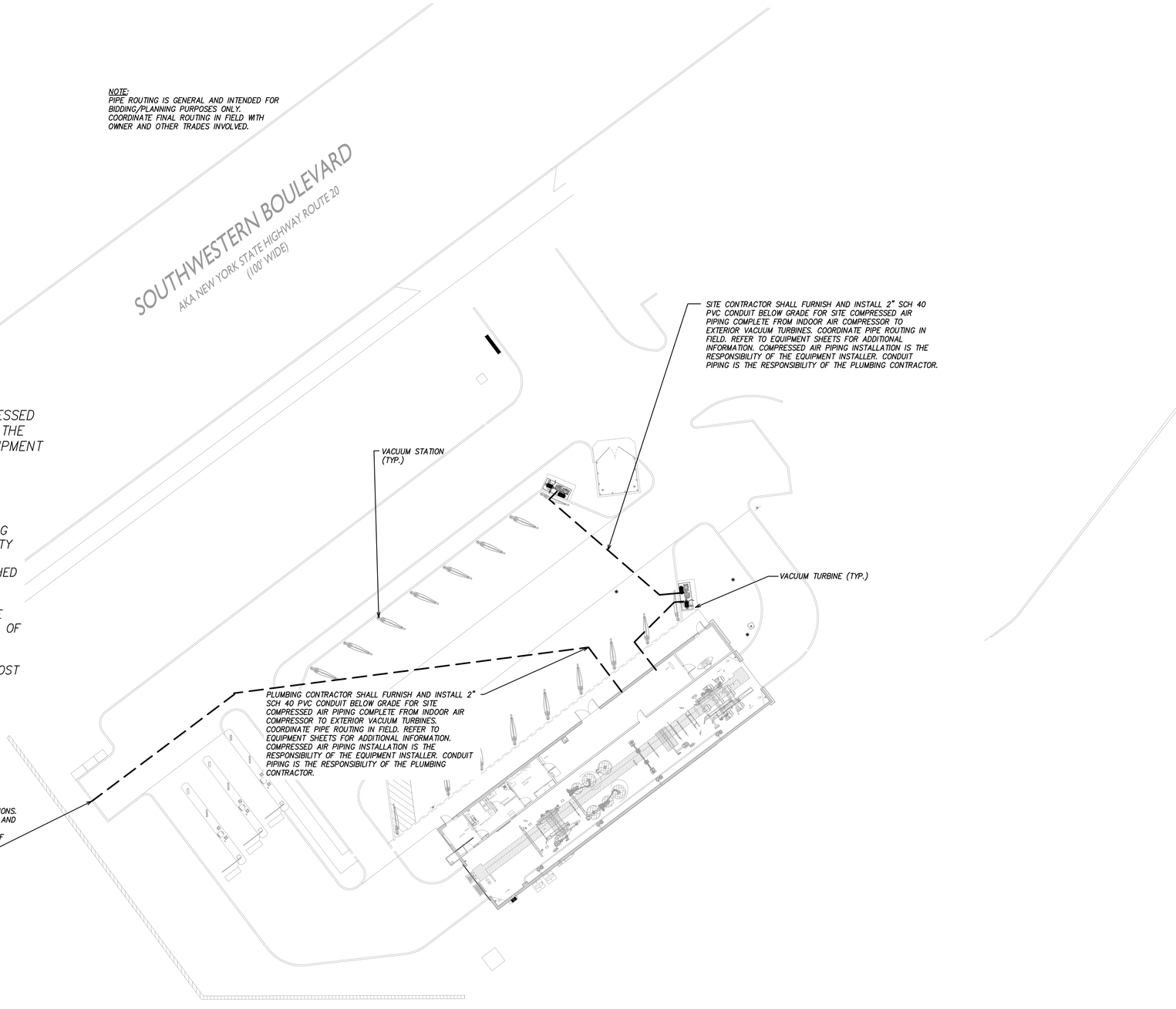
TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION: 8" CMU BEARING WALLS; WOOD TRUSS ROOF FRAMING; E.F.I.S ON WOOD STUDS @ DECORATIVE WALLS & FIN WALL; 24' NORTHERN PROTOTYPE W/120' CONVEYOR FIN & CANOPY
SITE ADDRESS: 5363 SOUTHWESTERN BOULEVARD
HAMBURG, NY
SITE ID: 20089D

SHEET NO. S4.0
SECTIONS & DETAILS

NOTE:
PIPE ROUTING IS GENERAL AND INTENDED FOR BIDDING/PLANNING PURPOSES ONLY. COORDINATE FINAL ROUTING IN FIELD WITH OWNER AND OTHER TRADES INVOLVED.

NOTE:
VACUUM PIPING AND COMPRESSED AIR PIPING INSTALLATION IS THE RESPONSIBILITY OF THE EQUIPMENT INSTALLER.

NOTE:
INSTALLATION OF CONDUIT PIPING AS SHOWN IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR. STUB CONDUIT UP ABOVE FINISHED GRADE AND CAP FOR FUTURE EQUIPMENT INSTALLATION. THE EQUIPMENT INSTALLER SHALL BE RESPONSIBLE FOR INSTALLATION OF FINAL EQUIPMENT PIPING WITHIN CONDUIT. HORIZONTAL CONDUIT SHALL BE INSTALLED BELOW FROST DEPTH WHERE APPLICABLE.



1 / P-001 SITE PLAN - VACUUM PIPING
SCALE: 1" = 20'-0"

20 10 0 20 40 60
SCALE IN FEET

REV	DATE	DESCRIPTION	BY

STATE OF NEW YORK
DANIEL OWEN KEIFFER
093161
LICENSED PROFESSIONAL ENGINEER
05/17/2023
DATE

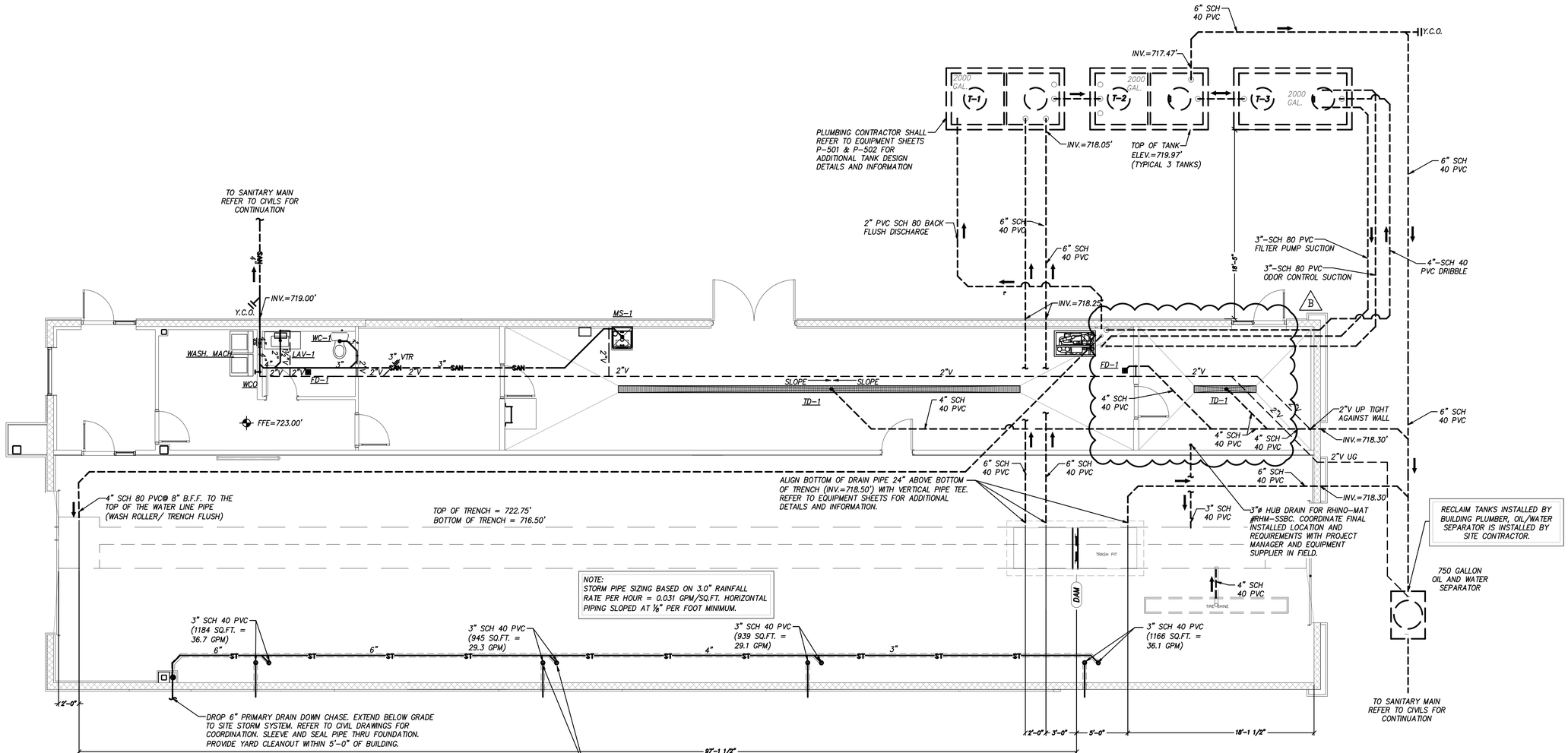
PREPARED BY:
DANIEL KEIFFER, P.E.
612 OVERHILL DRIVE
WOODSTOCK, GEORGIA 30189
PHONE: (585) 703-4537

PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY: TRD
REVIEWED BY: DOK
PROJ. MGR.
DATE ISSUED: 02/10/23

TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION: 8" CMU BEARING WALLS WOOD TRUSS ROOF FRAMING E.F.I.S ON METAL STUDS @ DECORATIVE WALLS & IN WALL 124' NORTHERN PROTOTYPE W/120' CONVEYOR FIN AT ENTRANCE
SITE ID: 20089D
SITE ADDRESS: 5363 SOUTHWESTERN BOULEVARD HAMBURG, NY

SHEET NO. P–001
SITE PIPING PLAN



1 / P-101 SEWER FLOOR PLAN
SCALE: 3/16" = 1'-0"

REV	DATE	DESCRIPTION	BY
B	05/17/23	PLAN REVIEW RESPONSE	TRD

STATE OF NEW YORK
DANIEL OWEN KEIFFER
093161
LICENSED PROFESSIONAL ENGINEER

05/17/2023
DATE

PREPARED BY:
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PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY	REVIEWED BY	DATE ISSUED
TRD	DOK	02/10/23

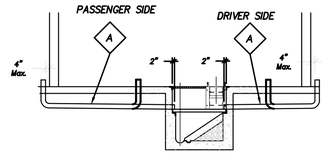
PROJ. MGR.

TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION
8" CMU BEARING WALLS
WOOD TRUSS ROOF FRAMING
E.F.I.S ON METAL STUDS @ DECORATIVE WALLS
& FIN WALL
124' NORTHERN PROTOTYPE W/120' CONVEYOR
FIN. AT ENTRANCE

SITE ADDRESS
5383 SOUTHWESTERN BOULEVARD
HAMBURG, NY

SITE ID
20089D

SHEET NO. P-101
SEWER FLOOR PLAN



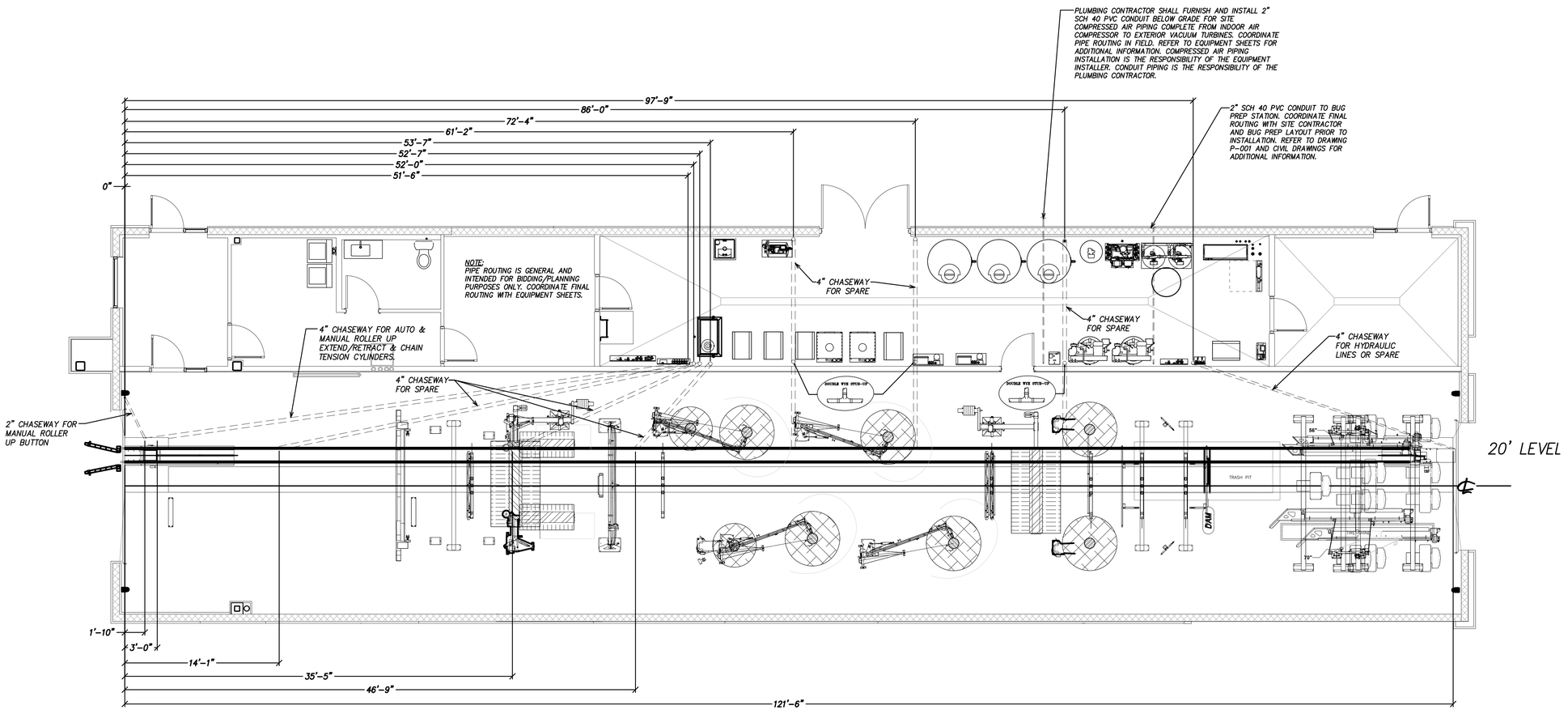
CHASEWAYS NOTES

1. *SLOPE CHASEWAYS TO DRAIN INTO TRENCH*
2. *90° BENDS IN CHASEWAYS SHALL BE MADE USING "SWEEP" ELBOWS OR TWO (2) 45° ELBOWS OR "SWEEP" TEE WHEN APPLICABLE.*

A — *19" BOTTOM OF PIPE.*

TYPICAL SELF CLEAN CHASEWAY INSTALLATION DETAIL

N.T.S.



1 / P-103 CHASEWAY FLOOR PLAN

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

BY	DESCRIPTION	DATE	REV

STATE OF NEW YORK — DANIEL OWEN KEIFFER — 093161 — LICENSED PROFESSIONAL ENGINEER

05/17/2023
DATE

PREPARED BY:
DANIEL KEIFFER, P.E.
612 OVERHILL DRIVE
WOODSTOCK, GEORGIA 30189
PHONE: (585) 703-4537

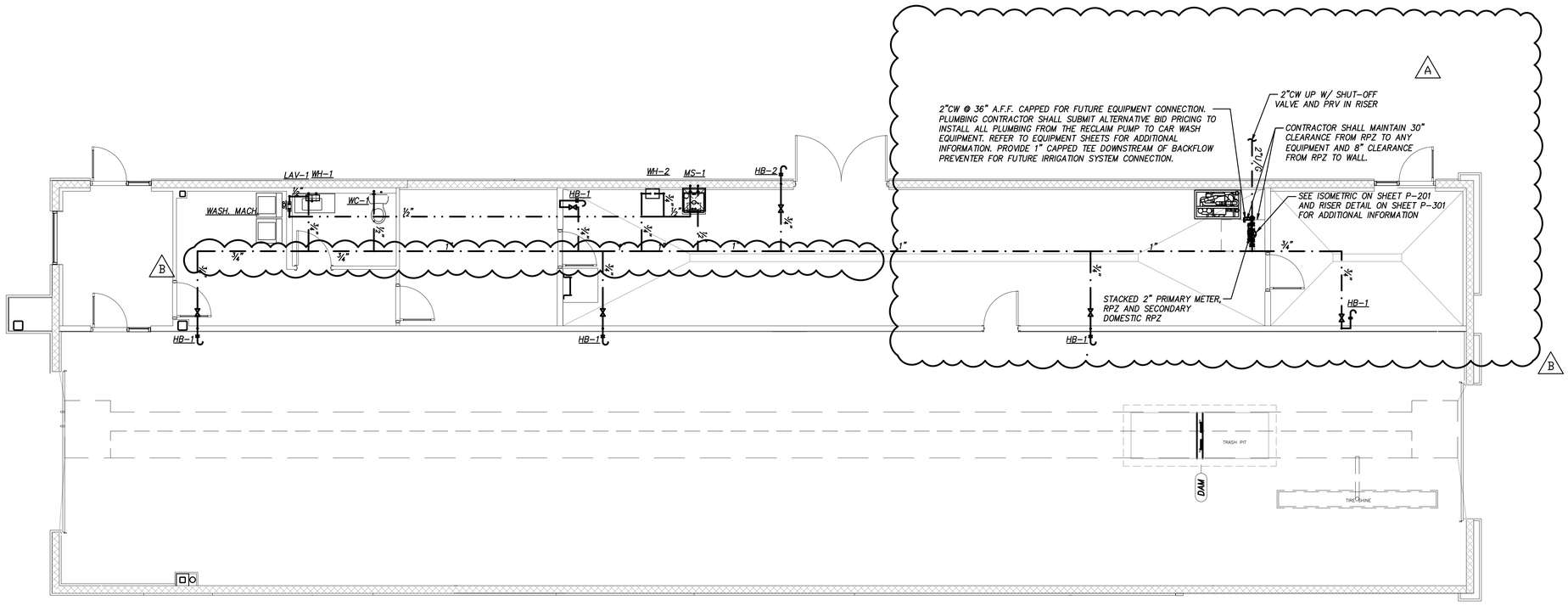
PREPARED FOR:

SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY: TRD
REVIEWED BY: DOK
PROJ. MGR.
DATE ISSUED: 02/10/23

TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION: 8" CMU BEARING WALLS
WOOD TRUSS ROOF FRAMING
E.F.I.S ON METAL STUDS @ DECORATIVE WALLS
& FIN WALLS
124' NORTHERN PROTOTYPE W/120' CONVEYOR
FIN AT ENTRANCE
SITE ID: 20089D
SITE ADDRESS: 5383 SOUTHWESTERN BOULEVARD
HAMBURG, NY

SHEET NO.: P-103
CHASEWAY FLOOR PLAN



1 / P-105 DOMESTIC WATER FLOOR PLAN
SCALE: 3/16" = 1'-0"

REV	DATE	DESCRIPTION	BY
B	05/17/23	PLAN REVIEW RESPONSE	TRD
A	03/13/23	PLAN REVIEW RESPONSE	DOK

STATE OF NEW YORK
DANIEL OWEN KEIFFER
093161
LICENSED PROFESSIONAL ENGINEER

05/17/2023
DATE

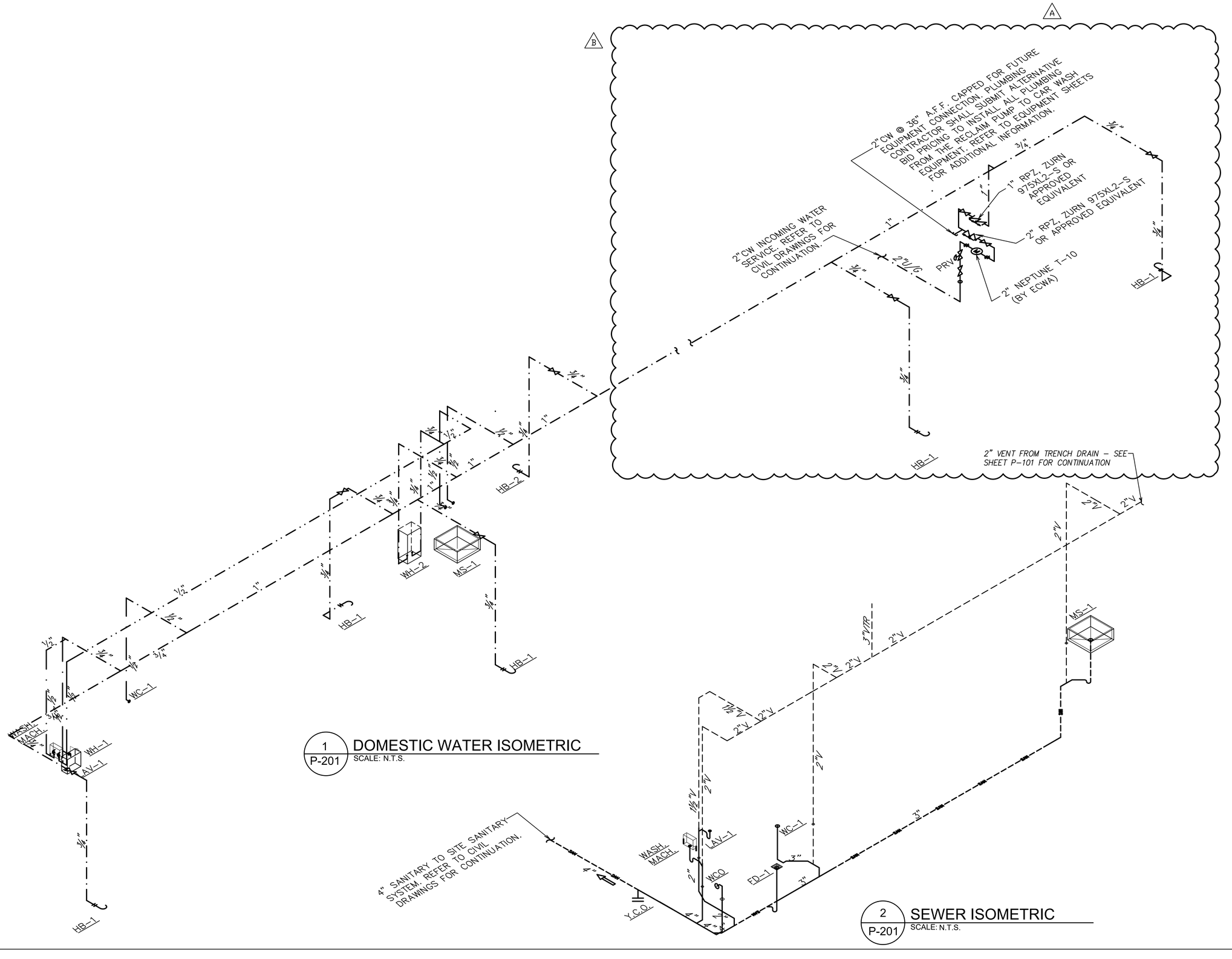
PREPARED BY:
DANIEL KEIFFER, P.E.
612 OVERHILL DRIVE
WOODSTOCK, GEORGIA 30189
PHONE: (585) 703-4537

PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY: TRD
REVIEWED BY: DOK
PROJ. MGR.
DATE ISSUED: 02/10/23

TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION: 8" CMU BEARING WALLS
WOOD TRUSS ROOF FRAMING
E.F.I.S ON METAL STUDS @ DECORATIVE WALLS
& PAINT WALL
124' NORTHERN PROTOTYPE W/120' CONVEYOR
FIN. AT ENTRANCE
SITE ID: 200890
SITE ADDRESS: 5393 SOUTHWESTERN BOULEVARD
HAMBURG, NY

SHEET NO. P-105
DOMESTIC WATER PLAN



1 P-201 DOMESTIC WATER ISOMETRIC
SCALE: N.T.S.

2 P-201 SEWER ISOMETRIC
SCALE: N.T.S.

REV	DATE	DESCRIPTION	BY
B	05/17/23	PLAN REVIEW RESPONSE	TRD
A	03/13/23	REVISIONS PER ECW COMMENTS	DOK

STATE OF NEW YORK
DANIEL OWEN KEIFFER
093161
LICENSED PROFESSIONAL ENGINEER

05/17/2023
DATE

PREPARED BY:
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SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY: TRD
REVIEWED BY: DOK
PROJ. MGR.
DATE ISSUED: 02/10/23

TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION: 8" CMU BEARING WALLS WOOD TRUSS ROOF FRAMING E.F.I.S ON METAL STUDS @ DECORATIVE WALLS & PARAPET WALLS 124' NORTHERN PROTOTYPE W/120' CONVEYOR FIN AT ENTRANCE
SITE ID: 20089D
SITE ADDRESS: 5363 SOUTHWESTERN BOULEVARD HAMBURG, NY

SHEET NO. P-201
ISOMETRICS

GENERAL PLUMBING NOTES

GENERAL:

1. ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
2. ALL PLUMBING WORK SHALL BE PERFORMED BY A LICENSED PLUMBER.
3. ALL DIMENSIONS, CLEARANCES AND TOLERANCES SHALL BE VERIFIED PRIOR TO INSTALLATION. ALL ROUGH-IN LOCATIONS SHALL BE COORDINATED WITH THE MANUFACTURER'S SUBMITTAL INFORMATION.
4. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
5. ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH THE INTERNATIONAL PLUMBING CODE, ALL LOCAL CODES, AND ALL OTHER REGULATIONS GOVERNING WORK OF THIS NATURE.
6. THE CONTRACTOR SHALL BEFORE SUBMITTING AND PROPOSAL EXAMINE THE PROPOSED SITE AND SHALL DETERMINE FOR HIMSELF THE CONDITIONS THAT MAY EFFECT THE WORK. NO ALLOWANCE SHALL BE MADE IF THE CONTRACTOR FAILS TO MAKE SUCH EXAMINATIONS.
7. ALL DIMENSIONAL INFORMATION IS AS FOLLOWS (UNLESS NOTED OTHERWISE):
   A. UNDERGROUND PIPE IS TO FOUNDATION
   B. OVERHEAD PIPE IS TO FINISHED WALL
   C. ELEVATIONS ARE TO FINISHED FLOOR
8. ALL MATERIALS, FIXTURES AND EQUIPMENT USED SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. ANY VARIANCE FROM THE PROJECT SPECIFICATIONS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER-OF-RECORD.
9. SUBMIT MATERIAL LIST AND SHOP DRAWINGS FOR MAJOR EQUIPMENT/FIXTURES TO THE ARCHITECT OR ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL SUBMIT THREE SETS OF SHOP DRAWINGS AND THEY SHALL BE CLEARLY LABELED.
10. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ITS LISTING AND/OR THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
11. WHERE POOR SOIL CONDITIONS EXIST OR WHERE SUBSTANTIAL SETTLEMENT OF EITHER THE PIPING, THE BUILDING OR ADJACENT WALKS, PLANTERS, ETC., MAY OCCUR, THE CONTRACTOR SHALL PROVIDE ADEQUATE UNDERSLAB STAINLESS STEEL PIPE HANGERS OR APPROVED OTHER SUPPORT.
12. ALL PIPE SLEEVES SHALL BE PROPERLY SEALED AND INSULATED TO PREVENT HEAT LOSS AND SEEPAGE.
13. ALL PIPE INSULATION SHALL BE PROTECTED FROM DAMAGE FROM PIPE HANGERS. PROTECTION SHALL BE LIGHT GAUGE GALVANIZED STEEL OR EQUAL.
14. ALL PENETRATIONS OF FIRE-RATED WALLS SHALL BE FIRESTOPPED WITH AN APPROVED AND LISTED FIRESTOPPING SYSTEM.
15. THE PLUMBING PLANS ARE INTENDED TO BE DIAGRAMMATIC AND ARE BASED ON ONE MANUFACTURE'S EQUIPMENT. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR ALL THE DETAILS OF THE EQUIPMENT. THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO ENSURE THAT THE EQUIPMENT PROPOSED WILL FIT IN THE AVAILABLE SPACE.
16. MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THIS CONTRACTORS EXPENSE.
17. FOR THE SAME PERIOD, THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED BY HIM.

SANITARY AND VENT SYSTEMS:

1. THE BUILDING SANITARY PIPE SHALL BE LOCATED A MINIMUM OF 5 FT. FROM THE INCOMING WATER SERVICE. WHERE A 5 FT. SEPARATION IS NOT POSSIBLE, THE BOTTOM OF THE WATER SERVICE PIPE SHALL BE A MINIMUM OF 12 IN. ABOVE THE TOP OF THE HIGHEST POINT OF THE SANITARY PIPE.
2. ALL SANITARY AND VENT PIPE SHALL BE PVC SCHEDULE 40 OR CAST-IRON WHERE REQUIRED BY CODE.
3. DRAINAGE PIPING SHALL BE RUN AS STRAIGHT AS POSSIBLE AND SHALL HAVE LONG TURN FITTINGS.
4. ALL HORIZONTAL SANITARY PIPE SHALL BE INSTALLED WITH A MINIMUM PITCH AS FOLLOWS:

PIPE SIZE	MIN. SLOPE
2½" OR LESS	¼" PER FT.
3" TO 6"	⅛" PER FT.
8" OR LARGER	⅛" PER FT.

5. CLEANOUTS SHALL BE INSTALLED IN ALL HORIZONTAL DRAINAGE PIPE AND SHALL BE LOCATED NOT MORE THAN 100 FT. APART.
6. CLEANOUTS SHALL BE INSTALLED AT ALL CHANGES OF DIRECTION GREATER THAN 45 DEGREES. WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A SINGLE PIPE RUN, ONLY ONE (1) CLEANOUT SHALL BE REQUIRED FOR EVERY 40 FEET OF DEVELOPED LENGTH.
7. CLEANOUTS SHALL BE INSTALLED ON PIPES PRIOR TO ANY SLAB PENETRATION.
8. WHERE PIPING IS LOCATED WITHIN WALL CAVITIES, ACCESS TO THE CLEANOUTS SHALL BE PROVIDED.
9. CLEANOUTS ON 6-IN. AND SMALLER PIPES SHALL BE PROVIDED WITH A CLEARANCE OF NOT LESS THAN 18 IN. CLEANOUTS ON 8-IN. AND LARGER PIPE SHALL BE PROVIDED WITH A CLEARANCE OF NOT LESS THAN 36 IN.
10. ALL SUSPENDED SANITARY AND VENT PIPE SHALL BE SUPPORTED AS FOLLOWS:

MATERIAL	MAX. HORIZ. SPACING	MAX. VERT. SPACING
ABS	4 FT.	10 FT.
PVC (TYPE DWV)	4 FT.	10 FT.
CAST-IRON (<10 FT. PIPE SECTIONS)	5 FT.	15 FT.
CAST-IRON (10 FT. PIPE SECTIONS)	10 FT.	15 FT.

11. ALL PLUMBING FIXTURES SHALL BE VENTED AND THE MAXIMUM DISTANCE FROM THE FIXTURE TRAP TO THE VENT SHALL BE AS FOLLOWS:

TRAP SIZE	SLOPE	DISTANCE
1¼"	¼" PER FT.	2'-6"
1½"	¼" PER FT.	3'-6"
2"	¼" PER FT.	5'-0"
3"	½" PER FT.	6'-0"
4" & LARGER	⅛" PER FT.	10'-0"

12. ALL VENT PIPING SHALL BE SLOPED TO DRAIN BACK TO FIXTURES.
13. ALL PLUMBING VENTS THROUGH THE ROOF SHALL TERMINATE A MINIMUM OF 12 INCHES ABOVE THE ROOF AND SHALL BE LOCATED A MINIMUM OF 8 FT. FROM ANY PARAPET WALL. WHERE A VENT TERMINATES WITHIN 8 FT. OF A PARAPET WALL, THE VENT SHALL TERMINATE A MINIMUM OF 6 INCHES ABOVE THE PARAPET.
14. ALL PLUMBING VENTS SHALL TERMINATE A MINIMUM OF 10 FT. HORIZONTALLY FROM ANY OUTDOOR AIR INTAKE. WHERE A PLUMBING VENT IS LOCATED WITHIN 10 FT. OF AN INTAKE, THE VENT SHALL TERMINATE A MINIMUM OF 2 FT. ABOVE THE INTAKE.
15. ALL SIDE WALL VENT TERMINATIONS SHALL BE PROTECTED TO PREVENT BIRDS OR RODENTS FROM ENTERING OR BLOCKING THE VENT OPENING.
16. ALL FLOOR DRAINS THAT DO NOT SERVE EQUIPMENT SHALL BE PROTECTED AGAINST DRYING OUT EITHER THROUGH THE INSTALLATION OF A TRAP PRIMER, DEEP SEAL TRAP OR PROSET TRAP GUARD.

DOMESTIC SUPPLY SYSTEMS:

1. THE INCOMING WATER SERVICE PIPE SHALL BE LOCATED A MINIMUM OF 5 FT. FROM THE EXITING SANITARY PIPE. WHERE A 5 FT. SEPARATION IS NOT POSSIBLE, THE BOTTOM OF THE WATER SERVICE PIPE SHALL BE A MINIMUM OF 12 IN. ABOVE THE TOP OF THE HIGHEST POINT OF THE SANITARY PIPE.
2. ALL UNDERGROUND SITE PLUMBING SHALL CONFORM TO NSF 61, SHALL BE TYPE K SOFT DRAWN COPPER TUBING WITH BRAZED CONNECTIONS.
3. INCOMING WATER SERVICE PRESSURE SHOULD BE BETWEEN 45 AND 55 PSI STATIC. WHERE WATER PRESSURE SERVICE EXCEEDS 80 PSI STATIC, AN APPROVED WATER-PRESSURE REDUCING VALVE WITH STRAINER CONFORMING TO ASSE 1003 SHALL BE INSTALLED. WHERE INCOMING WATER PRESSURE IS BELOW 45 PSI STATIC, A PRESSURE BOOSTER SYSTEM SHALL BE INSTALLED.
4. PROVIDE A MINIMUM ½" ANNULAR CLEARANCE AROUND ALL PIPE SLAB PENETRATIONS.
5. A REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER (RPZ) SHALL BE INSTALLED AT THE INCOMING SERVICE WHERE REQUIRED BY CODE. REFER TO CIVIL PLANS FOR LOCATION.
6. ALL WATER SUPPLY PIPE WITHIN THE BUILDING SHALL COMPLY WITH NSF 61 AND SHALL BE TYPE L HARD DRAWN COPPER PIPE WITH 125 PSI SOLDER JOINTS, COPPER OR BRASS FITTINGS. ALL SOLDER TO BE "NO LEAD" TYPE.
7. ALL SUSPENDED PIPE SHALL BE SUPPORTED AS FOLLOWS:

MATERIAL	MAX. HORIZ. SPACING	MAX. VERT. SPACING
COPPER PIPE	12 FT.	10 FT.

8. ALL WATER SUPPLY LINES SHALL BE PROVIDED WITH A QUARTER-TURN SHUT-OFF VALVE BEFORE FINAL CONNECTION TO EQUIPMENT.
9. QUARTER-TURN SHUT-OFF VALVES SHALL BE INSTALLED UPSTREAM OF ANY INLINE BACKFLOW PREVENTION DEVICE.
10. ALL VALVES AND BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED WITH FITTINGS THAT FACILITATE REMOVAL IN CASE OF FAILURE.
11. ALL OVERHEAD WATER LINES SHALL BE INSULATED WITH 1" THICK EXTERNAL JACKETED INSULATION AND A MINIMUM INSTALLED R-VALUE OF 3.7 (ARMACELL OR EQUIVALENT).
12. PRIOR TO BUILDING TURNOVER, THE DOMESTIC WATER SUPPLY SYSTEM SHALL BE PURGED OF DELETERIOUS MATERIAL AND DISINFECTED. DISINFECTION SHALL BE DONE IN ACCORDANCE WITH THE LOCAL HEALTH CODE, PLUMBING CODE OR IN ACCORDANCE WITH AWWA C651 OR AWWA C652.

STORM DRAINAGE SYSTEMS:

1. ALL ROOF DRAINS SHALL BE SIZED IN ACCORDANCE WITH LOCAL CODES AND SHALL CONFORM TO ASME A112.21.2M OR A112.3.1.
2. ALL STORM DRAINAGE PIPING SHALL BE PVC TYPE DWV OR CAST-IRON WHERE REQUIRED BY CODE.
3. ALL SUSPENDED STORM DRAINAGE PIPE SUPPORT REQUIREMENTS SHALL BE THE SAME AS THE SANITARY AND VENT REQUIREMENTS.
4. ALL HORIZONTAL STORM DRAINAGE PIPE SHALL BE INSTALLED WITH A MINIMUM PITCH OF ¼" PER FOOT OF DEVELOPED LENGTH.
5. CLEANOUTS SHALL BE INSTALLED IN ALL HORIZONTAL DRAINAGE PIPE AND SHALL BE LOCATED NOT MORE THAN 100 FT. APART.
6. CLEANOUTS SHALL BE INSTALLED AT ALL CHANGES OF DIRECTION GREATER THAN 45 DEGREES. WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A SINGLE PIPE RUN, ONLY ONE (1) CLEANOUT SHALL BE REQUIRED FOR EVERY 40 FEET OF DEVELOPED LENGTH.
7. CLEANOUTS SHALL BE INSTALLED ON PIPES PRIOR TO ANY SLAB PENETRATION.
8. WHERE PIPING IS LOCATED WITHIN WALL CAVITIES, ACCESS TO THE CLEANOUTS SHALL BE PROVIDED.
9. ROOF DRAINS AND OVERFLOW ROOF DRAINS SHALL BE PIPED INDEPENDENTLY. OVERFLOW ROOF DRAINS SHALL NOT BE CONNECTED TO THE PRIMARY ROOF DRAINAGE SYSTEM.

LEGEND

— · — · — · —	COLD WATER PIPING
- - - - - - - - - -	TEMPERED WATER PIPING (110°F)
— — SAN — —	UNDERGROUND SANITARY PIPING
- - - - - - - - - -	VENT PIPING
HB	HOSE BIBB
	CHECK VALVE
	BALL VALVE
	FLOOR DRAIN
	PRESSURE REDUCING VALVE (PRV)

ABBREVIATIONS

AVB	ATMOSPHERIC VACUUM BREAKER
CO	CLEAN-OUT
DFU	DRAINAGE FIXTURE UNIT(S)
EC	ELECTRICAL CONTRACTOR
FCO	FLOOR CLEAN-OUT
FD	FLOOR DRAIN
GC	GENERAL CONTRACTOR
GPF	GALLONS PER FLUSH
GPM	GALLONS PER MINUTE
GW	GREASE WASTE
I.P.S.	IRON PIPE SIZE (ALSO NPS)
LAV	LAVATORY
MC	MECHANICAL CONTRACTOR
MHT	MALE HOSE THREADS
MS	MOP SINK
NPS	NATIONAL PIPE THREAD STANDARD
NPT	NATIONAL PIPE THREAD TAPERED
OH	OVERHEAD
ORD	OVERFLOW ROOF DRAIN (EMEREGENCY)
P	PUMP
PC	PLUMBING CONTRACTOR
PRD	PRIMARY ROOF DRAIN
SAN	SANITARY SEWER
ST	STORM SEWER
UG	UNDERGROUND
UR	URINAL
V	VENT
WC	WATER CLOSET
WCO	WALL CLEAN-OUT
WSFU	WATER SUPPLY FIXTURE UNIT(S)
YCO	YARD CLEAN-OUT

PLUMBING FIXTURE SCHEDULE

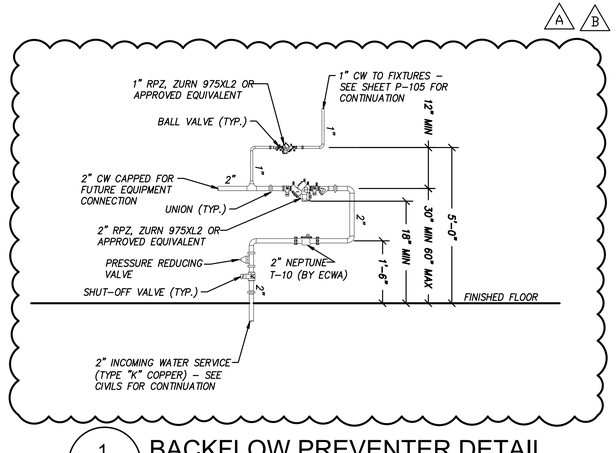
TAG	DESCRIPTION	MANUFACTURER	MODEL	WATER USE	ACCESSORIES/COMMENTS
FCO	6x6 FLOOR CLEAN OUT	ZURN	Z1400-SZ		SEE DRAWINGS FOR PIPE SIZES SEE NOTE 2
F-1	FAUCET FOR LAV-1	DELTA FAUCETS	501LF-HGMHDF	0.5 GPM	CHROME PLATED, SOLID BRASS BODY, SINGLE LEVER HANDLE OPERATION, 4" CENTERSET FAUCET FAUCET OPERATION: MANUAL
F-2	FAUCET/EYEWASH FOR MS-1	SPEAKMAN SPEAKMAN	SC-5811-RCP (FAUCET) SEF-9000-TW (EYEWASH)	4.0 GPM	ROUGH POLISHED CHROME PLATED, SOLID BRASS BODY, INTEGRAL STOPS, BRASS VACUUM BREAKER, ¾" HOSE THREAD OUTLET WITH PAIL HOOK. EYEWASH COMES COMPLETE WITH INTEGRAL VACUUM BREAKER, CHECK VALVE AND THERMOSTATIC MIXING VALVE. SEE NOTE 4.
FD-1	6x6 FLOOR DRAIN	ZURN	Z415-SZ		PIPE SIZE: 3" STRAINER SIZE: 6" NICKEL BRONZE FUNNEL: NONE SEE NOTE 2
FD-2	6x6 FLOOR DRAIN WITH FUNNEL	ZURN	Z415-SZ-OF		PIPE SIZE: 4" STRAINER SIZE: 6" NICKEL BRONZE FUNNEL: ZURN Z329 SEE NOTE 2
HB-1	WALL HYDRANT	WOODFORD	MODEL 25		ANTI-SIPHON VACUUM BREAKER & SELF-DRAINING DESIGN WALL THICKNESS: 8"
LAV-1	LAVATORY	KOHLER	K-2196-4		"PENNINGTON" WHITE VITREOUS CHINA DROP-IN LAVATORY – SEE NOTES 1, 3 & 6 FAUCET: F-1 FURNISH COMPLETE WITH TRUEBRO LAVGUARD2 #102-E-Z COVERS, MCGUIRE #155A GRID DRAIN W/ TAILPIECE, MCGUIRE #8872 P-TRAP, MCGUIRE #170 SUPPLIES W/ WHEEL HANDLE STOPS AND ESCUTCHEONS.
MS-1	MOP SINK	ZURN	Z1996-24-WG		FAUCET: F-2 24"x24"x10" WITH 3" INTEGRAL STRAINER AND DRAIN. FURNISH MOP SINK WITH (2) 24"Wx36"H STAINLESS WALL GUARDS
TD-1	TRENCH DRAIN	ZURN	Z886-E1-U4-SVF-BG		HDPF MODULAR CHANNEL TRENCH DRAIN SYSTEM, 1⅛" RADIUSED BOTTOM WITH 0.75% BUILT-IN SLOPE. GALVANIZED DUCTILE IRON BAR GRATES, TOP LOAD CLASS C
WC-1	ADA WATER CLOSET	AMERICAN STANDARD	2835.128	1.28 GPF	"CADET 3 FLOWISE" SIPHON ACTION FLUSH TANK FLUSH OPERATION: MANUAL (LEVER ON WIDE SIDE OF TOILET) OPEN FRONT SEAT LESS COVER, SOFT CLOSE, ANTI-MICROBIAL COATING.
WASH. MACH.	WASHING MACHINE WALL BOX	SIOUX CHIEF	696-2313MF		HAMMER ARRESTERS INCLUDED WITH BOX FILTROL LINT TRAP
WCO	WALL CLEANOUT	ZURN	Z1441		PIPE SIZE: 4" COVER MATERIAL: STAINLESS STEEL SEE NOTE 2

NOTES:
1. PLUMBING CONTRACTOR SHALL COORDINATE WITH G.C. TO PROVIDE BLOCKING FOR PROPER SINK SUPPORT
2. PLUMBING CONTRACTOR SHALL SPECIFY CONNECTION MATERIAL/TYPE WHEN ORDERING
3. PLUMBING CONTRACTOR SHALL PROVIDE GRID DRAIN, P-TRAP AND VALVE STOPS FOR ALL SINKS & LAVS
4. MOP SINK/EYE WASH IS ASME A112.18.1/CSA B125 CERTIFIED, ANSI/ISEA Z358.1 CERTIFIED AND ASSE-1001 COMPLIANT.
5. PREFERRED VENDOR IS MECHANICAL ELECTRICAL GROUP
6. PLUMBING CONTRACTOR SHALL FURNISH LAVATORY COMPLETE WITH ASSE 1070 COMPLIANT THERMOSTATIC MIXING VALVE

WATER HEATER SCHEDULE

TAG	MANUFACTURER	MODEL	HEATING LOW	HEATING HIGH	RECOV. 80°F ΔT GPH	ELECTRICAL VOLTS	ø	Hz	F.L.A.	MOCP	ACCESSORIES
WH-1	RHEEM	RTEX-06	5.5 KW		0.5	240	1	60	25	30	–
WH-2	RHEEM	RTGH-84-DVLP-2	11.0 MBH	157.0 MBH	3.8	120	1	60	2	20	1,2

ACCESSORIES:
1. SERVICE VALVE KIT
2. VERTICAL CONCENTRIC VENT TERMINATION KIT



1 / P-301 BACKFLOW PREVENTER DETAIL
SCALE: N.T.S.

REV	DATE	DESCRIPTION	BY
B	05/17/23	PLAN REVIEW RESPONSE	TRD
A	03/13/23	REVISIONS PER ECW COMMENTS	DOK

STATE OF NEW YORK – DANIEL OWEN KEIFFER – 093161 – LICENSED PROFESSIONAL ENGINEER

05/17/2023
DATE

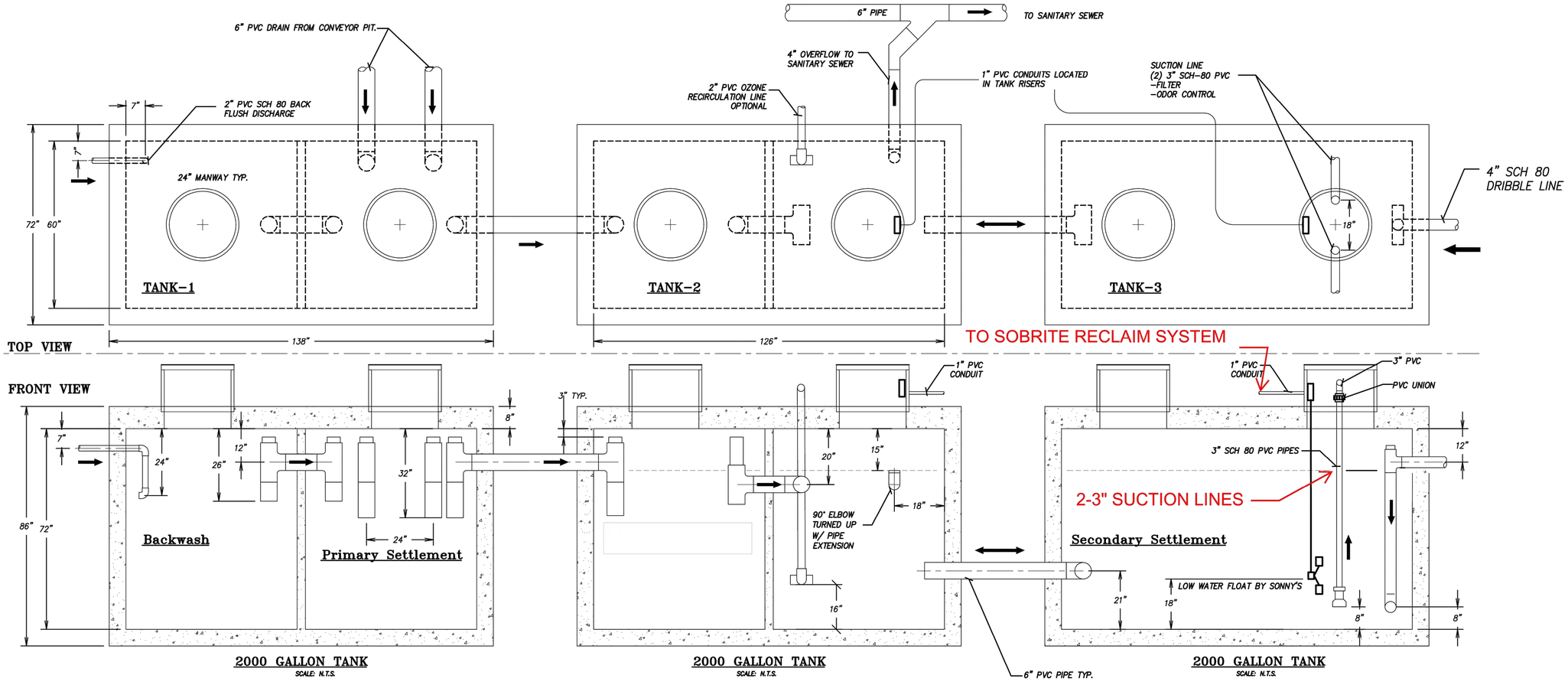
PREPARED BY:
DANIEL KEIFFER, P.E.
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PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY	REVIEWED BY	PROJ. MGR.	DATE ISSUED
TRD	DOK		02/10/23

TITLE: MODWASH EXPRESS CARWASH
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SITE ID: 200890
SITE ADDRESS: 5363 SOUTHWESTERN BOULEVARD, HAMBURG, NY

SHEET NO. P-301
DETAILS & SCHEDULES



NOTE:

1. Pressure Test All Suction Lines Upon Installation @ 10-15 PSI max.
2. Keep pressure on Suction Lines for the entire DURATION of construction.
3. Pressure should NOT drop more than 2 PSI.
4. Watch for problems when excavating driveways.
5. If reclaim tanks are located more than 60 feet away from reclaim unit, then increase suction line to 3" sch 80 PVC.
6. Placement of suction lines is critical
7. Do NOT put screens on the suction lines
8. ANY QUESTIONS CONTACT SONNY'S.

CAR WASH RECLAIM SYSTEM STANDARD RECLAIM 3 TANK

(SEE RECLAIM SHEET FOR DETAIL)

NOT FOR CONSTRUCTION UNTIL APPROVED BELOW.

APPROVED BY. _____ DATE _____

NOTE:

1. ALL UNDERGROUND TANKS AND PIPING BY CONTRACTOR
2. PIPE LOCATIONS SHOULD BE USED FOR ANY TANK
3. ALL INTERNAL TANK PLUMBING TO BE 6" sch 40 PVC UNLESS NOTED OTHERWISE
4. ALL TANK BOTTOMS SHOULD BE LEVEL
5. THIS DRAWING IS TO SHOW TANK HOLDING CAPACITY AND PIPING RELATIONSHIPS ONLY. THEY ARE NOT INTENDED TO ADDRESS TANK STRUCTURE ENGINEERING.

RECLAIM TANKS TO HAVE HS20 TRAFFIC RATED LIDS

DISCLAIMER
ALTHOUGH BUILDING CODES HAVE BEEN CONSIDERED IN DEVELOPING THIS DRAWING, VERIFICATION OF SITE SPECIFIC CONDITIONS AND COMPLIANCE WITH FEDERAL, STATE AND LOCAL BUILDING CODES IS THE EXCLUSIVE RESPONSIBILITY OF THE CUSTOMER AND/OR ARCHITECT AND ENGINEER. THESE DRAWINGS REFLECT REQUIREMENTS FOR SONNY'S FURNISHED EQUIPMENT ONLY UNLESS OTHERWISE NOTED. PLEASE REFER TO OTHER MANUFACTURERS, IF ANY, FOR THEIR EQUIPMENT REQUIREMENTS.

CONFIDENTIAL WARNING:
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21023-D1-MODWASH 120' NORTH

SCALE: N.T.S. LOCATION: -TN-

Sheet	Rev.
4.3	-A-

RECLAIM TANK SYSTEM; GC

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5605 Hiatus Road, Tamarac, FL. 33321 USA. TEL.800-327-8723
http://www.SonnysDirect.com

DATE:	01.12.21
REVISION DATE:	05.20.21
CREATED BY:	LV
REVISED BY:	ADC
CHECKED BY:	Luis V.

REV	DATE	DESCRIPTION	BY

DRAWING FOR REFERENCE ONLY

05/17/2023
DATE

PREPARED BY:
DANIEL KEIFFER, P.E.
612 OVERHILL DRIVE
WOODSTOCK, GEORGIA 30189
PHONE: (585) 703-4537

PREPARED FOR:

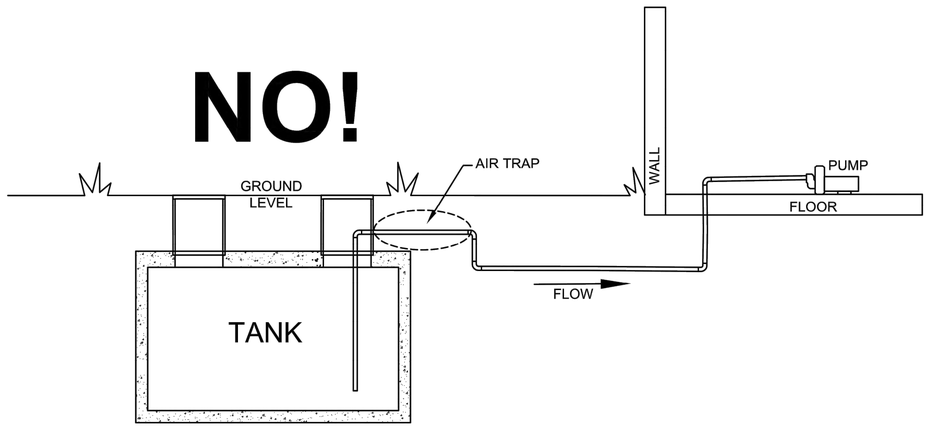
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AS NOTED ON PLAN
124' NORTHERN PROTOTYPE W/120' CONVEYOR
FIN. AT ENTRANCE

SITE ID: 200890
SITE ADDRESS: 5383 SOUTHWESTERN BOULEVARD
HAMBURG, NY

DRAWN BY: RBD
REVIEWED BY: DJK
PROJ. MGR.
DATE ISSUED: 02/10/23

SHEET NO. P-501
REFERENCE DETAILS

NO!

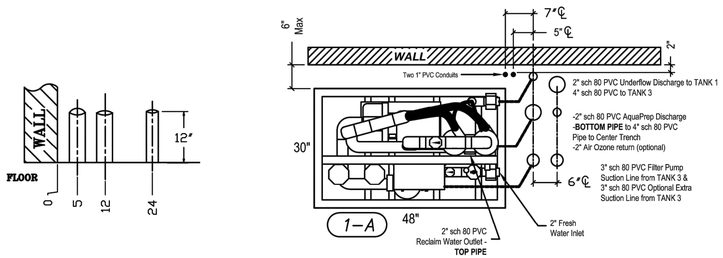


BELOW GROUND TANKS

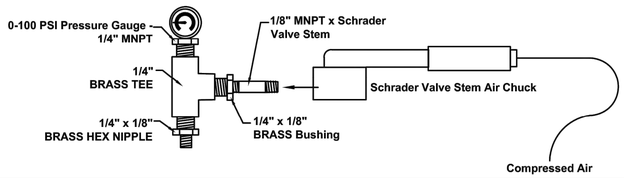
ALL suction lines must NEVER slope down and then back up again (Air Trap).

ERS-100

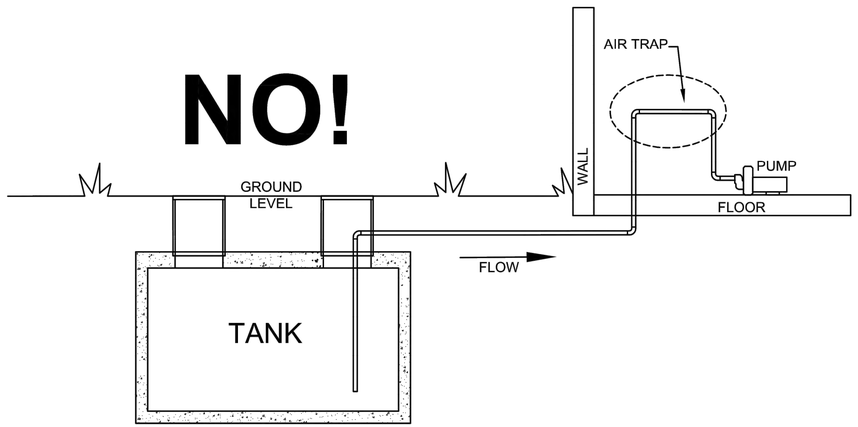
Underground Stub-Ups & Pipe Connections in Equipment Room -by G.C.



PRESSURE TESTING PUMP SUCTION LINES



NO!

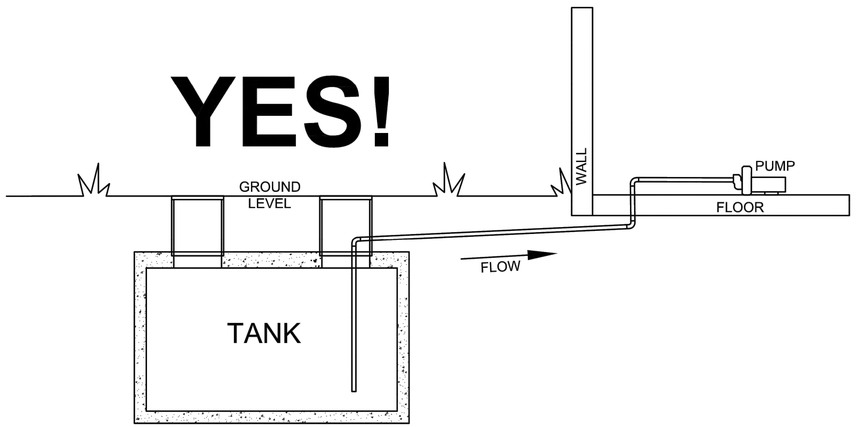


BELOW GROUND TANKS

ALL suction lines must NEVER slope up and then back down again (Air Trap).

ANY QUESTIONS CONTACT SONNY'S

YES!



BELOW GROUND TANKS

ALL suction lines require a continuous upward slope to the Equipment Room.

NOT FOR CONSTRUCTION UNTIL APPROVED BELOW.

APPROVED BY. _____ DATE _____

RECLAIM SYSTEM; GC

DISCLAIMER
ALTHOUGH BUILDING CODES HAVE BEEN CONSIDERED IN DEVELOPING THIS DRAWING, VERIFICATION OF SITE SPECIFIC CONDITIONS AND COMPLIANCE WITH FEDERAL, STATE AND LOCAL BUILDING CODES IS THE EXCLUSIVE RESPONSIBILITY OF THE CUSTOMER AND/OR ARCHITECT AND ENGINEER. THESE DRAWINGS REFLECT REQUIREMENTS FOR SONNY'S FURNISHED EQUIPMENT ONLY UNLESS OTHERWISE NOTED. PLEASE REFER TO OTHER MANUFACTURERS, IF ANY, FOR THEIR EQUIPMENT REQUIREMENTS.

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21023-D1-MODWASH 120' NORTH

SCALE: N.T.S. LOCATION: -TN-

Sheet	Rev.
4.4	-A-

DATE:	01.12.21
REVISION DATE:	05.20.21
CREATED BY:	LV
REVISED BY:	ADC
CHECKED BY:	Luis V.

REV	DATE	DESCRIPTION	BY

SONNY'S The CarWash Factory http://www.SonnysDirect.com

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5605 Hiatus Road, Tamarac, FL. 33321 USA. TEL.800-327-8723

DRAWING FOR REFERENCE ONLY

05/17/2023
DATE

PREPARED BY:
DANIEL KEIFFER, P.E.
612 OVERHILL DRIVE
WOODSTOCK, GEORGIA 30189
PHONE: (585) 703-4537

PREPARED FOR:

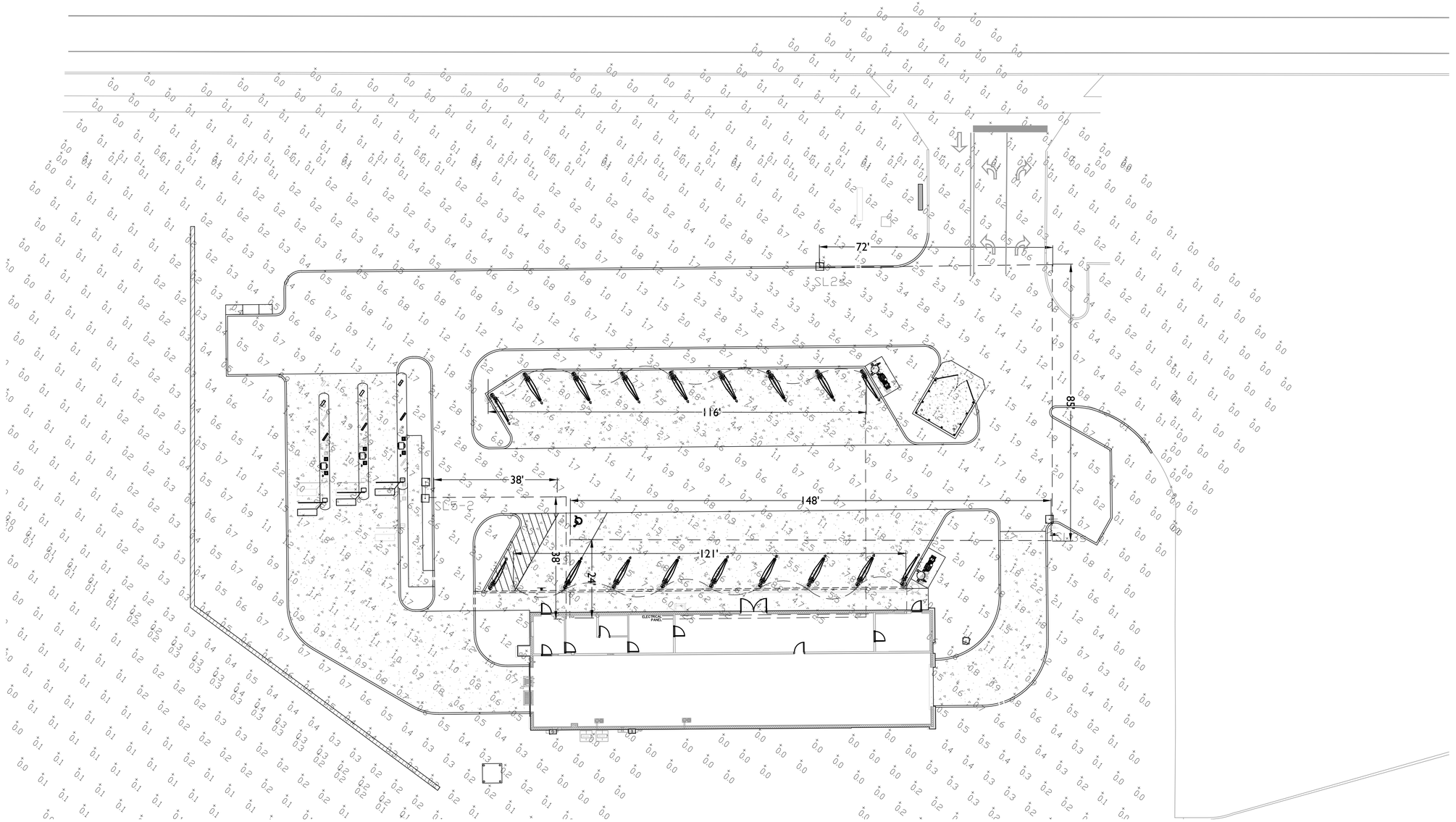
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY	REVIEWED BY	DATE ISSUED
TRD	DOK	02/10/23

PROJ. MGR.

TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION: 8" CMU BEARING WALLS WOOD TRUSS ROOF FRAMING E.F.I.S ON METAL STUDS @ DECORATIVE WALLS 4 BAY WASH WITH 124' NORTHERN PROTOTYPE W/120' CONVEYOR FIN AT ENTRANCE
SITE ID: 20088D
SITE ADDRESS: 5363 SOUTHWESTERN BOULEVARD HAMBURG, NY

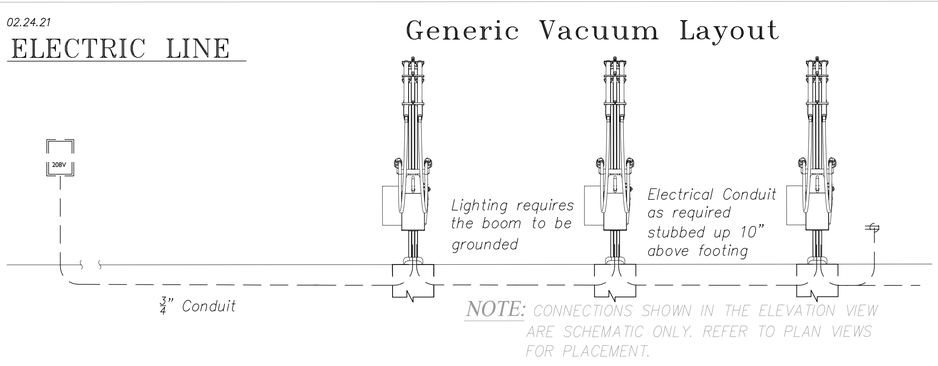
SHEET NO. P-502
REFERENCE DETAILS



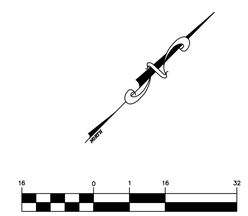
1 E-001 SITE PLAN
SCALE: 1:16

02.24.21

ELECTRIC LINE



ELECTRICAL SITE PLAN



REV	DATE	DESCRIPTION	BY

STATE OF NEW YORK ★ MICHAEL OLATUNDE ODUSELU ★ LICENSED PROFESSIONAL ENGINEER ★ 103319

2/10/2023
DATE

PREPARED BY:

MICHAEL ODUSELU, P.E.
809 TRAMORE ROAD
ACWORTH, GEORGIA 30102
PHONE: (678) 595-7872

PREPARED FOR:

Hutton SITE REAL ESTATE DEVELOPMENT CONSTRUCTION

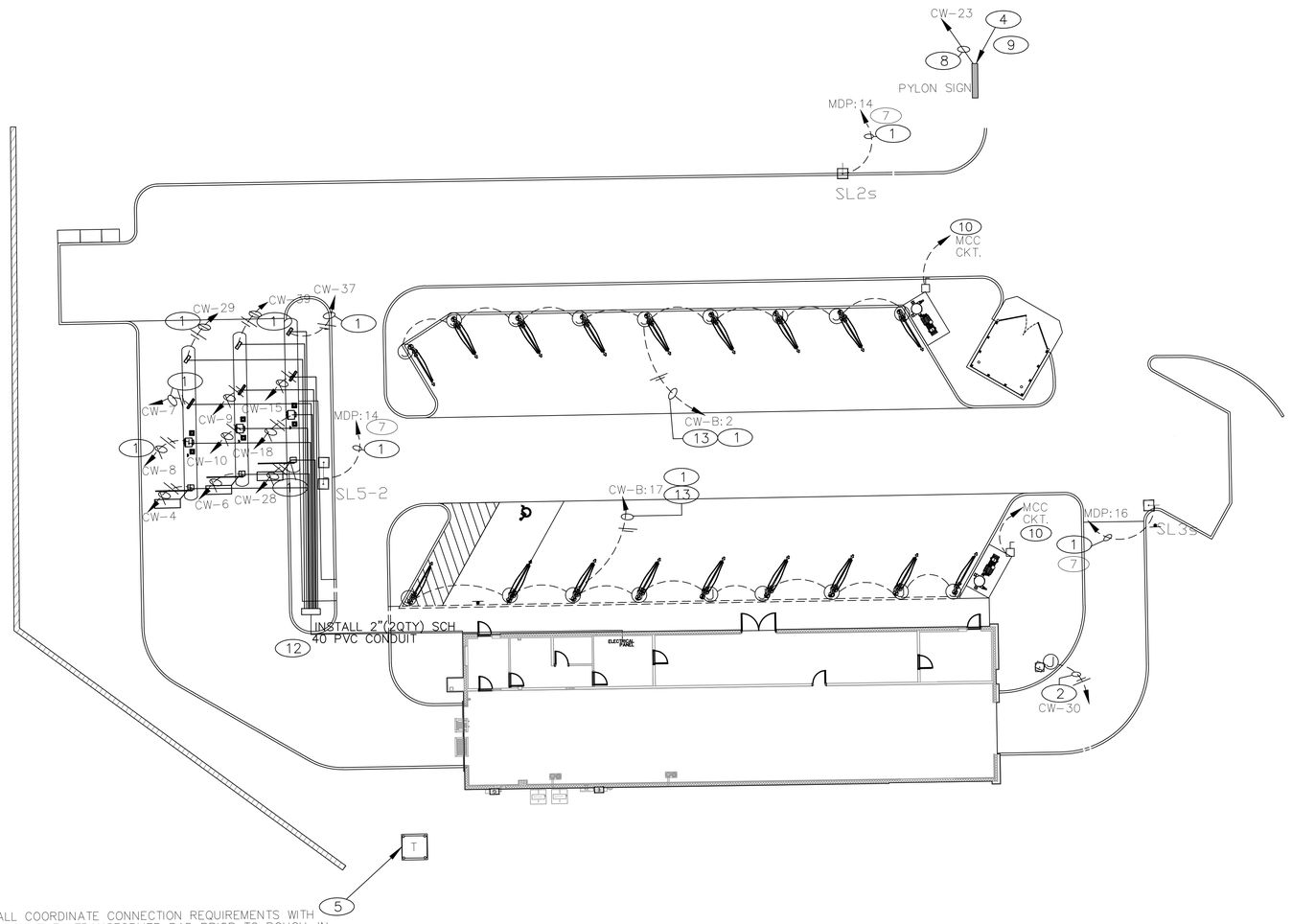
DRAWN BY	REVIEWED BY	PROJ. MGR.	DATE ISSUED
SSJ	MTO		02/10/23

TITLE: MIDWASH EXPRESS CARWASH
HAMBURG, NY

DESCRIPTION
8" CMU BEARING WALLS
WOOD TRUSS ROOF FRAMING
E.I.F.S ON METAL STUDS @ DECORATIVE WALLS & FIN WALL
124' NORTHERN PROTOTYPE W/120' CONVEYOR
FIN AT ENTRANCE

SITE ID: 20089D
SITE ADDRESS: 5363 SOUTHWESTERN BOULEVARD

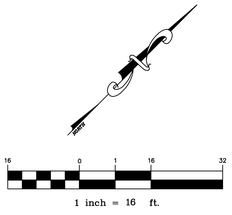
SHEET NO. E-001
SITE PLAN



Luminaire Data - DB Lighting Consultation								
Label	Qty	Symbol	[MANUFAC]	Description	LLF	Watts	Lumens	Mtg Hgt
L4	21		G&G Industrial	GPX4-SO	0.900	20	2650	10
SL2s	1		COOPER	PRV-C25-D-UNV-T2-BZ-HSS	0.900	96	12145	27
SL3s	1		COOPER	PRV-C25-D-UNV-T3-BZ-HSS	0.900	96	11975	27
SL5-2	1		COOPER	PRV-C25-D-UNV-T5-BZ	0.900	192	28090	27

1 E-002 SITE PLAN
SCALE: 1:16

ELECTRICAL SITE PLAN



GENERAL NOTES

1. *REFER TO CIVIL AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.*
2. *ALL WORK SHALL BE DONE IN CONFORMANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS AND ORDINANCES.*
3. *VACUUM BOOM LIGHTING AND PAY STATION CANOPY LIGHTING SHALL BE HOMERUN TO PANEL BOARD VIA LIGHTING CONTRACTOR CONTACTOR CONTROLLED BY ASTRONOMICAL TIMECLOCK AND PHOTOCELL.*
4. *REFER TO CIVIL SHEETS FOR LOCATION AND ROUTING. VERIFY AND COORDINATE ALL CONDUIT PLACEMENT WITH CIVIL DRAWINGS.*

(1) 1" C. – 2 #10, #10 GRD. (TYP. FOR ENTIRE CIRCUIT.) STRANDED WIRES.

(2) 1" C. – 2 #12, #12 GRD. (TYP. FOR ENTIRE CIRCUIT.) STRANDED WIRES.

(3) DIRECTIONAL SIGN. EC TO CONFIRM THIS IS APPLICABLE.

(4) FOR EXACT SIGN LOCATION OF PYLON SIGN REFER TO CIVIL DRAWINGS.

(5) UNDERGROUND ELECTRIC SERVICE TO UTILITY CO. TRANSFORMER. REFER TO CIVIL SHEETS FOR LOCATION AND ROUTING. VERIFY AND COORDINATE ALL REQUIREMENTS WITH UTILITY CO.

(6) GATE(S). EXTEND A 1" CONDUIT TO GATE WITH PULL STRINGS. NOT USED AT EVERY SITE. EC TO CONFIRM THIS APPLIES TO THIS SITE. EC TO CONFIRM THIS IS APPLICABLE.

(7) SITE LIGHTING SPECIFICATION COOPER MANUFACTURER BELOW OR SIMILAR.
LABEL SL2s: PRV-C25-D-UNV-23-BZ-HSS/MTD AT 27' AFG. QTY:1
LABEL SL3s: PRV-C25-D-UNV-T3-BZ-HSS/MTD AT 27' AFG. QTY:1
LABEL SL5-2: PRV-C25-D-UNV-T5-BZ/MTD AT 27' AFG. QTY:1
LABEL L4: AUTO VAC GPX4-SO /VACUMM MOUNT AT 10' QTY:21
VERIFY / COMPLY WITH SITE-SPECIFIC EXTERIOR ENERGY CODE.

(8) 1" C. – 2 #6, #6 GRD. (TYP. FOR ENTIRE CIRCUIT.) EC SHALL CHECK FOR VOLTAGE DROP REQUIREMENTS IN THE FIELD.

(9) PYLON SIGN DISCONNECTING MEANS SHALL BE LOCKABLE IN THE OPEN POSITION TO DE-ENERGIZE THE ENTIRE CIRCUIT PER NEC 600.6(A)(2) AND 110.25.

(10) PROVIDE EMERGENCY STOP BUTTON WITH RED STOP BUTTON AND GREEN RESTART BUTTON WITH LOBBY FOR CONTROL OF VACUUM PUMP. PROVIDE NAMEPLATE INDICATING EQUIPMENT SERVED. COORDINATE FINAL LOCATION WITH EQUIPMENT.

(11) 1" CONDUIT FOR SECURITY CAMERA, PHONE LINES, AND PAY STATION ISLAND FROM OFFICE TO THE DESIGNATED AREA. COORDINATE FINAL SIZE AND LOCATION WITH GC IN THE FIELD. EC TO CONFIRM THIS IS APPLICABLE.

(12) EXTEND (2) 2" SCH 40 PVC CONDUIT FROM ELECTRICAL PANEL TO QUAZITE PULL BOX (Weatherproof Heavy Duty Box & Lid, W x L x D: 24" x 36" x 24).

(13) VACUUM MACHINES PROVIDED SHALL BE GFCI PROTECTED PER NEC 422.23 AND 422.5.

KEY NOTES | A

REV	DATE	DESCRIPTION	BY

STATE OF NEW YORK
MICHAEL OLATUNDE ODUSELU
LICENSED PROFESSIONAL ENGINEER
108319

2/10/2023
DATE

PREPARED BY:

MICHAEL ODUSELU, P.E.
809 TRAMORE ROAD
ACWORTH, GEORGIA 30102
PHONE: (678) 595-7872

PREPARED FOR:

Hutton SITE
REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY	REVIEWED BY	DATE ISSUED
SSJ	MTO	02/10/23

PROJ. MGR.

HAMBURG, NY

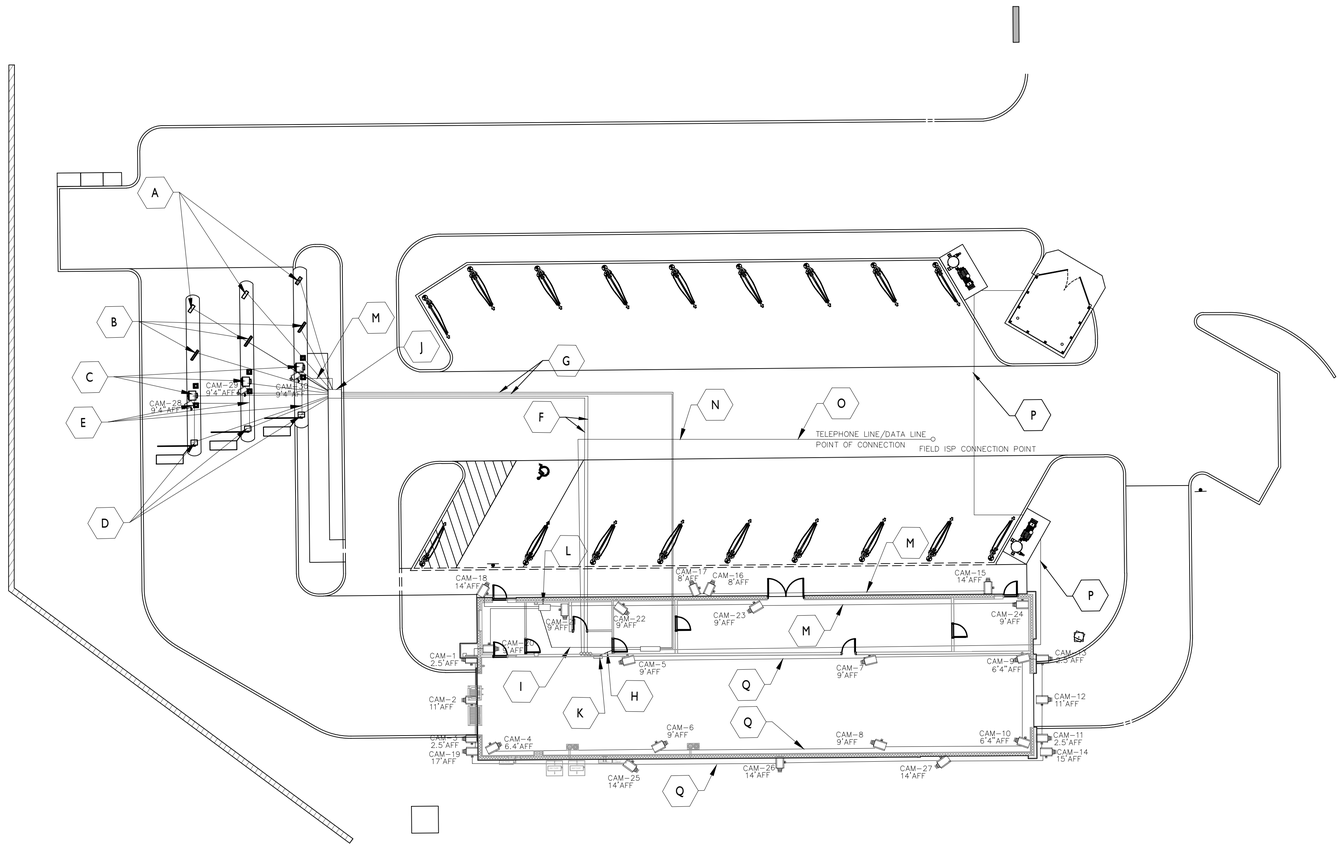
TITLE
MODWASH EXPRESS CARWASH

DESCRIPTION
8" CMU BEARING WALLS
WOOD TRUSS ROOF FRAMING
EIFS ON METAL STUDS @ DECORATIVE WALLS
& FIN. WALL
124' NORTHERN PROTOTYPE W/120' CONVEYOR
FIN. AT ENTRANCE

SITE ID 208980
SITE ADDRESS 5363 SOUTHWESTERN BOULEVARD

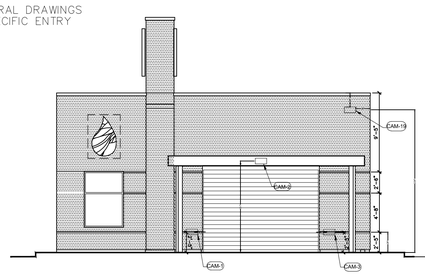
SHEET NO. E-002
SITE PLAN

KEY	DESCRIPTION
A	1" CONDUIT: 1 CAT 5 FROM LPR TO OFFICE
B	1" CONDUIT: 1 CAT 5 FROM MENU BOARD TO OFFICE
C	1" CONDUIT: 1 CAT 5 FROM PAY STATION TO OFFICE
D	1" CONDUIT: 1 CAT 5 FROM PAY STATION TO OFFICE FOR CAMERA TO OFFICE
E	1" CONDUIT: 1X18/6, 1X18/4, 1X18/2 FROM PAY STATION TO GATE
F	2" CONDUIT 2QTY: TO OFFICE
G	2" CONDUIT 2QTY: TO TUNNEL CONTROLLER "MCC"
H	1" CONDUIT: 1 CAT 5 7 3X 14AWG FROM PEDESTAL TO TUNNEL CONTROLLER
I	1" CONDUIT: 1 CAT 5 FROM OFFICE TO TUNNEL CONTROLLER
J	QUAZITE PULL BOX (Heavy Duty Box & Lid, WxLxD:24"x30"x24).
K	TUNNEL CONTROLLER PEDESTAL
L	OFFICE CONTROL(S)
M	3/4" CONDUIT: SITE CAMERA TO SECURITY CONTROLLER
N	1-1" CONDUIT: TELEPHONE LINE
O	1-1" CONDUIT: INCOMING INTERNET/CABLE
P	1" CONDUITS FROMN MCC TO VACUUM PRODUCER FOR TRANSDUCER CABLE
Q	3/4" CONDUITS OR WHIPS: FROM SITE CAMERAS THROUGH RAFTERS INSIDE EQUIPMENT ROOM OR LOBBY THEN INTO RACK IN OFFICE

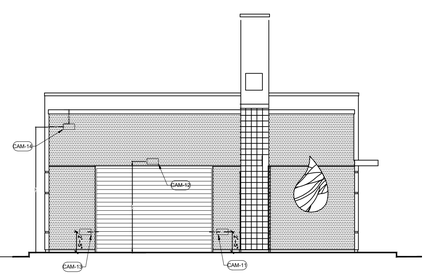


1 E-003 LOW VOLT CONDUIT
SCALE: 1:16

NOTE:
REFER TO ARCHITECTURAL DRAWINGS (A-202) FOR SITE SPECIFIC ENTRY AND EXIT ELEVATION.



2 E-003 ENTRY SIDE ELEVATION
SCALE: NTS



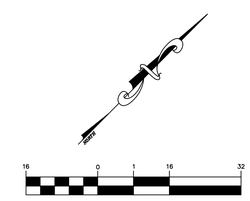
3 E-003 EXIT SIDE ELEVATION
SCALE: NTS

GENERAL NOTES

1) *CONDUIT AND PULL STRING FOR SECURITY CAMERAS ARE BY THE ELECTRICAL SUBCONTRACTOR.*

2) *PROVIDE 1" CONDUIT FOR TELEVISION INSTALLATION TO ACCOMMODATE HDMI CABLE FOR CAMERA DISPLAY.*

ELECTRICAL SITE PLAN



NOTE:

CAMERA LOW VOLTAGE WIRES AND CIRCUIT CONNECTIONS ARE TO BE INSTALLED BY CAMERA INSTALLER AT 9'AFF.

REFER TO CIVIL SHEETS FOR LOCATION AND ROUTING. VERIFY AND COORDINATE ALL CONDUIT PLACEMENT WITH CIVIL DRAWINGS.

PROVIDE 1" CONDUIT TO FLOAT VALVE FROM MCC TO RECLAIM TANK.

BY	DESCRIPTION	DATE	REV

STATE OF NEW YORK
MICHAEL OLATUNDE ODUSELU
LICENSED PROFESSIONAL ENGINEER
103319

2/10/2023
DATE

PREPARED BY:

MICHAEL ODUSELU, P.E.
809 TRAMORE ROAD
ACWORTH, GEORGIA 30102
PHONE: (678) 595-7872

PREPARED FOR:

Hutton SITE
REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY: SSJ
REVIEWED BY: MTO
PROJ. MGR.:
DATE ISSUED: 02/10/23

TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION: 8" CMU BEARING WALLS WOOD TRUSS ROOF FRAMING E.F.I.S ON METAL STUDS @ DECORATIVE WALLS & FLAT WALL 124' NORTHERN PROTOTYPE W/120' CONVEYOR FIN AT ENTRANCE
SITE ID: 20089D
SITE ADDRESS: 5383 SOUTHWESTERN BOULEVARD HAMBURG, NY

SHEET NO. E-003
LOW VOLT CONDUIT

ELECTRICAL LEGEND:

- DUPLEX RECETPACLE, WALL–MOUNTED. MOUNT 18" AFF, UON.
- DUPLEX RECEPTACLE, WALL–MOUNTED. MOUNT HORIZONTALLY 2.5" ABOVE COUNTER BACKSPLASH, UON.
- DOUBLE DUPLEX RECEPTACLE, WALL MOUNTED. MOUNT 18" AFF, UON.
- GFCI DUPLEX RECEPTACLE, WALL–MOUNTED. MOUNT 18" AFF, UON.
- GFCI DUPLEX RECEPTACLE, WALL–MOUNTED. MOUNT HORIZONTALLY 2.5" ABOVE COUNTER BACKSPLASH, UON.
- WP GFCI DUPLEX RECEPTACLE, WALL–MOUNTED, WITH WEATHERPROOF–IN–USE COVER. MOUNT 18" AFF, UON.
- DUPLEX RECEPTACLE, CEILING–MOUNTED.
- SPECIAL RECEPTACLE, WALL–MOUNTED. NEMA 6–20R, UON. MOUNT 18" AFF, UON.
- INFRASTRUCTURE FOR TELECOMMUNICATIONS OUTLET. PROVIDE 4" SQUARE BOX WITH BLANK COVER, MOUNTED 18" AFF, UON. PROVIDE 1" CONDUIT FROM BOX TO ABOVE ACCESSIBLE CEILING.
- INFRASTRUCTURE FOR TELECOMMUNICATIONS OUTLET. PROVIDE 4" SQUARE BOX WITH BLANK COVER, MOUNTED 2.5" ABOVE COUNTER BACKSPLASH, UON. PROVIDE 1" CONDUIT FROM BOX TO ABOVE ACCESSIBLE CEILING.
- JUNCTION BOX, WALL–MOUNTED. MOUNT 18" AFF, UON.
- JUNCTION BOX, ABOVE CEILING.
- M CONNECTION TO MECHANICAL OR PLUMBING EQUIPMENT. TAG INDICATES EQUIPMENT SERVED. REFER TO EQUIPMENT CONNECTION SCHEDULE FOR ADDITIONAL INFORMATION.
- 30/3/F/3R SAFETY DISCONNECT SWITCH. NOMENCLATURE IS AMPERES/POLES/FUSED OR NONFUSED/ENCLOSURE TYPE IF OTHER THAN NEMA 1. MOUNT 48" AFF, UON.
- S TOGGLE SWITCH, SINGLE POLE, SINGLE THROW. MOUNT 48" AFF, UON.
- S_3 TOGGLE SWITCH, 3–WAY, SINGLE POLE, DOUBLE THROW. MOUNT 48" AFF, UON.
- S_{OS} WALL SWITCH OCCUPANCY SENSOR. MOUNT 48" AFF, UON.
- D WALL BOX DIMMER. MOUNT 48" AFF, UON.
- D_3 WALL BOX DIMMER, 3–WAY. MOUNT 48" AFF, UON.
- CEILING–MOUNTED OCCUPANCY SENSOR, DUAL TECHNOLOGY, PASSIVE INFRARED AND ULTRASONIC.
- A PANELBOARD, SURFACE–MOUNTED.
- A LUMINAIRE. TAG INDICATES TYPE. REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION.
- A LUMINAIRE WITH EMERGENCY BATTERY PACK. TAG INDICATES TYPE. REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION.
- X EXIT SIGN. TAG INDICATES TYPE. DARKENED SECTIONS INDICATES FACES. ARROWS INDICATE DIRECTIONAL INDICATORS. REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION.
- X_E EMERGENCY LIGHT. REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION.

ELECTRICAL ABBREVIATIONS:

AFF	ABOVE FINISHED FLOOR
F*	FUSED PER MANUFACTURER RECOMMENDATIONS
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
MFR	EQUIPMENT MANUFACTURER
UON	UNLESS OTHERWISE NOTED
WP	WEATHERPROOF

TELEPHONE SERVICE REQUIREMENTS:

NOTE: ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT TERMINATION POINTS AND REQUIREMENTS WITH TELEPHONE COMPANY PRIOR TO BID/ROUGH–IN.

1. PROVIDE ONE (1) 1" CONDUIT WITH PULL WIRE FROM NEAREST WEATHERPROOF TELEPHONE CABINET TO SPACE AND TERMINATE AS SHOWN ON DRAWINGS.
2. PROVIDE ONE (1) 4" CONDUIT FROM CABINET TO CABINET AS REQUIRED. SEE ELECTRICAL DRAWINGS FOR PROPOSED QUANTITY AND LOCATIONS.
3. THE CONDUITS SHALL BE SCHEDULE 40 PVC BURIED 24" TO 30" BELOW GRADE.
4. ALL CONDUITS SHALL BE LEFT CLEAN, DRY, AND FREE OF DEBRIS.
5. PROVIDE TWO (2) 4" CONDUITS FROM THE RIGHT–OF–WAY AT A POINT DESIGNATED BY THE TELEPHONE COMPANY TO THE NEAREST WEATHERPROOF TELEPHONE CABINET LOCATED ON THE PROPOSED BUILDING. COORDINATE WITH TELEPHONE COMPANY PRIOR TO ROUGH–IN.
6. EACH CONDUIT RUN SHALL BE PLACED AS STRAIGHT AS POSSIBLE WITH NO MORE THAN TWO (2) 90 DEGREE BENDS (MINIMUM 40" RADIUS).
7. THE TELEPHONE CABINET(S) LOCATED ON THE REAR OF THE BUILDING SHALL BE 36"W X 48"H X 8"D, MOUNTED AT 6'–0" ABOVE FINISHED GRADE TO THE TOP OF THE CABINET, WEATHERPROOF, EQUIPPED WITH A FULLY HINGED LOCKABLE DOOR AND A FULL COVERADE OF 3/4" PLYWOOD BACKBOARD. CABINET SHALL BE PAINTED TO MATCH BUILDING.
8. PROVIDE AN INSULATED #6 COPPER GROUND WIRE IN 1/2" CONDUIT FROM MAIN POWER GROUND SOURCE TO THE TELEPHONE CABINET (AT EACH LOCATION). PROVIDE 8 FEET OF SLACK WIRE AT BACKBOARD.
9. ALL CONDUITS SHALL BE TURNED UP 36" ABOVE GRADE AND CAPPED TO FACILITATE FUTURE LOCATIONS.
10. ELECTRICAL CONTRACTOR SHALL VERIFY THAT ALL TELEPHONE COMPANY CONDUITS SEALS MADE IN FLOORS, WALLS, AND CEILINGS BY TELEPHONE COMPANY MEET CODE REQUIREMENTS.

CATV:

NOTE: ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT TERMINATION POINTS AND REQUIREMENTS WITH CABLE COMPANY PRIOR TO BID/ROUGH–IN.

1. FOR CATV SERVICE, PROVIDE ONE (1) 2" NON–METALLIC CONDUIT WITH PULL WIRE OUT TO CABLE COMPANY TERMINAL AT STREET.

ELECTRICAL SPECIFICATIONS:

1. GENERAL
   - 1.1. INSTALLATION SHALL COMPLY WITH NFPA 70–2017 AND ALL APPLICABLE LOCAL CODES.
   - 1.2. ALL PRODUCTS PROVIDED IN THIS CONTRACT SHALL BE NEW, SHALL BE LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
   - 1.3. ALL EQUIPMENT OF THE SAME TYPE SHALL BE BY THE SAME MANUFACTURER.
   - 1.4. WORKING CLEARANCE AROUND EQUIPMENT SHALL NOT BE LESS THAN THE MINIMUM REQUIREMENTS SPECIFIED IN NFPA 70.
   - 1.5. FIRESTOPPING SHALL BE APPLIED TO ELECTRICAL PENETRATIONS OF FIRE–RATED FLOOR AND WALL ASSEMBLIES TO RESTORE ORIGINAL FIRE–RESISTANCE RATING OF THE ASSEMBLY.
   - 1.6. COORDINATE INSTALLATION WITH STRUCTURE, ARCHITECTURE, AND OTHER TRADEWORK PRIOR TO INSTALLATION TO AVOID CONFLICTS.
   - 1.7. ELECTRICAL REQUIREMENTS FOR EQUIPMENT OF OTHER TRADES HAVE BEEN COORDINATED AS A BASIS OF DESIGN. CONTRACTOR SHALL COORDINATE ELECTRICAL REQUIREMENTS OF EQUIPMENT FURNISHED PRIOR TO INSTALLATION AND PROVIDE ELECTRICAL SYSTEMS REQUIRED BY THAT EQUIPMENT. ANY ELECTRICAL SYSTEM REVISIONS REQUIRED TO COORDINATE WITH EQUIPMENT FURNISHED SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
   - 1.8. VERIFY FIELD MEASUREMENTS AND CIRCUITING ARRANGEMENTS AS SHOWN ON THE DRAWINGS.
   - 1.9. WORK SHALL BE NEAT IN APPEARANCE, PLUMB, LEVEL, AND TRUE. ANY WORK DEEMED UNSATISFACTORY BY THE ARCHITECT SHALL BE IMMEDIATELY REMOVED AND REPLACED.
   - 1.10. PROVIDE ALL COMPONENTS AND PERFORM ALL WORK NECESSARY FOR A COMPLETE WORKING SYSTEM.
   - 1.11. PROVIDE AN IDENTIFYING NAMEPLATE FOR EACH PANELBOARD, DRY–TYPE TRANSFORMER, DISCONNECT SWITCH, OR OTHER PIECE OF EQUIPMENT. NAMEPLATES SHALL BE LAMINATED PLASTIC WITH 0.25" HIGH WHITE ENGRAVED LETTERS ON BLACK BACKGROUND. NAMEPLATE SHALL INCLUDE EQUIPMENT NAME, ELECTRICAL CHARACTERISTICS, EQUIPMENT RATINGS, AND SOURCE NAME.
   - 1.12. SUBMIT SHOP DRAWINGS AND PRODUCT DATA FOR THE FOLLOWING MATERIALS:
     - 1.12.1. DRY–TYPE TRANSFORMERS
     - 1.12.2. LIGHTING CONTROL DEVICES
     - 1.12.3. LUMINAIRES
     - 1.12.4. PANELBOARDS
2. CONDUCTORS
   - 2.1. CONDUCTORS SHALL BE SOFT DRAWN ANNEALED COPPER WITH A MINIMUM CONDUCTANCE OF 98%.
   - 2.2. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG FOR POWER AND LIGHTING CIRCUITS, UNLESS OTHERWISE INDICATED.
   - 2.3. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED.
   - 2.4. INSULATION SHALL BE TYPE THHN/THWN–2 OR XHHW–2, RATED AT 90°C.
   - 2.5. CONDUCTORS SHALL BE COLOR–CODED TO INDICATE THE PHASE AND VOLTAGE.
     - 2.5.1. COLORS FOR 208/120V SYSTEMS:
       - 2.5.1.1. PHASE A – BLACK
       - 2.5.1.2. PHASE B – RED
       - 2.5.1.3. PHASE C – BLUE
       - 2.5.1.4. NEUTRAL – WHITE
       - 2.5.1.5. GROUND – GREEN
     - 2.5.2. COLORS FOR 480/277V SYSTEMS:
       - 2.5.2.1. PHASE A – BROWN
       - 2.5.2.2. PHASE B – ORANGE
       - 2.5.2.3. PHASE C – YELLOW
       - 2.5.2.4. NEUTRAL – GRAY
     - 2.5.2.5. GROUND – GREEN
   - 2.6. SPLICES AND TAPS IN SOLID BRANCH CIRCUIT CONDUCTORS SHALL BE MADE WITH TWIST–ON OR CRIMP PRESSURE TYPE CONNECTION DEVICES.
   - 2.7. SPLICES, TAPS, AND BUS BAR TERMINATIONS OF STRANDED CONDUCTORS SHALL BE MADE WITH COPPER COMPRESSION OR CRIMP TYPE LUGS.
3. GROUNDING
   - 3.1. EQUIPMENT, ENCLOSURES, AND RACEWAYS SHALL BE GROUNDED. INSTALL INSULATED EQUIPMENT BGROUNDING CONDUCTORS WITH ALL FEEDERS AND BRANCH CIRCUITS.
   - 3.2. BOND GROUND CONDUCTORS AT ORIGIN OF CIRCUITS, AT INTERMEDIATE PULL BOXES, AND TO PANELBOARDS OR EQUIPMENT AT TERMINATIONS.
   - 3.3. EQUIPMENT GROUNDING CONDUCTORS AND GROUNDING ELECTRODE CONDUCTORS SHALL BE CONNECTED TO THE GROUND BUS OF THE SERVICE EQUIPMENT. INSTALL A MAIN BONDING JUMPER BETWEEN THE NEUTRAL AND GROUND BUSES OF THE SERVICE EQUIPMENT.
   - 3.4. A GREEN–COLORED GROUNDING CONDUCTOR SHALL BE PROVIDED IN RACEWAYS WITH THE PHASE CONDUCTORS.
   - 3.5. PROVIDE NFPA 70–COMPLIANT GROUNDING ELECTRODE SYSTEM. PROVIDE BONDING JUMPERS WHERE NECESSARY. THE FOLLOWING GROUNDING ELECTRODES SHALL BE BONDED TOGETHER TO FORM A COMPLETE GROUNDING ELECTRODE SYSTEM:
     - 3.5.1. METAL UNDERGROUND WATER PIPE
     - 3.5.2. METAL IN–GROUND SUPPORT STRUCTURES
     - 3.5.3. CONCRETE–ENCASED ELECTRODES
4. RACEWAYS
   - 4.1. GALVANIZED RIGID STEEL CONDUIT SHALL COMPLY WITH ANSI C80.1 AND UL 6. FITTINGS SHALL BE THREADED GALVANIZED STEEL AND SHALL HAVE INSULATED BUSHINGS WHERE INSTALLED IN CABINETS, OUTLET BOXES, AND PULL BOXES.
   - 4.2. ELECTRICAL METALLIC TUBING SHALL COMPLY WITH ANSI C80.3 AND UL 797. FITTINGS SHALL BE STEEL, COMPRESSION OR SETSCREW TYPE, WITH INSULATED THROAT CONNECTORS.
   - 4.3. FLEXIBLE METAL CONDUIT SHALL COMPLY WITH UL 1 AND SHALL BE ZINC–COATED STEEL. FITTINGS SHALL BE TWIST–IN, INSERTION TYPE, WITH INSULATED THROAT.
   - 4.4. LIQUIDTIGHT FLEXIBLE METAL CONDUIT SHALL COMPLY WITH UL 360 AND SHALL BE PVC–JACKETED STEEL. FITTINGS SHALL BE WATERTIGHT, TWIST–IN, INSERTION TYPE, WITH INSULATED THROAT.
   - 4.5. RIGID NONMETALLIC CONDUIT SHALL COMPLY WITH NEMA TC2 AND UL 651 AND SHALL BE SCHEDULE 40 ELECTRICAL POLYVINYL CHLORIDE. FITTINGS SHALL BE SCHEDULE 40 ELECTRICAL POLYVINYL CHLORIDE.
   - 4.6. RACEWAYS FOR EXTERIOR ABOVEGROUND OR EXPOSED APPLICATIONS SHALL BE GALVANIZED RIGID STEEL CONDUIT.
   - 4.7. RACEWAYS FOR EXTERIOR UNDERGROUND APPLICATIONS SHALL BE RIGID NONMETALLIC CONDUIT, SCHEDULE 40 ELECTRICAL POLYVINYL CHLORIDE.
   - 4.8. RACEWAYS FOR EXTERIOR CONNECTION TO MOTORS AND OTHER VIBRATING EQUIPMENT SHALL BE LIQUID–TIGHT FLEXIBLE METAL CONDUIT.
   - 4.9. RACEWAYS FOR INTERIOR EXPOSED APPLICATIONS, UNLESS OTHERWISE INDICATED, SHALL BE GALVANIZED RIGID STEEL CONDUIT.
   - 4.10. RACEWAYS FOR INTERIOR CONCEALED APPLICATIONS AND WHERE EXPOSED IN ELECTRICAL OR TELECOMMUNICATIONS ROOMS SHALL BE ELECTRICAL METALLIC TUBING.
   - 4.11. RACEWAYS FOR INTERIOR CONNECTION TO MOTORS AND OTHER VIBRATING EQUIPMENT SHALL BE FLEXIBLE METAL CONDUIT FOR DRY LOCATIONS AND LIQUIDTIGHT FLEXIBLE METAL CONDUIT FOR DAMP OR WET LOCATIONS.
   - 4.12. INSTALL CONDUCTORS IN RACEWAYS, UNLESS OTHERWISE SPECIFIED.
   - 4.13. INSTALL PULL LINES IN EMPTY CONDUITS AND CONDUITS FOR TELECOMMUNICATIONS OUTLETS. USE POLYPROPYLENE OR MONOFILAMENT PLASTIC LINE WITH NOT LESS THAN 200LB TENSILE STRENGTH. LEAVE AT LEAST 12 INCHES OF SLACK AT EACH END OF PULL WIRE.
   - 4.14. PROVIDE A COMPLETE RACEWAY SYSTEM.
   - 4.15. RACEWAYS SHALL BE RUN PARALLEL WITH OR PERPENDICULAR TO THE BUILDING WALLS.
   - 4.16. TELEPHONE SERVICE RACEWAYS AND OTHER INFRASTRUCTURE REQUIREMENTS SHALL BE COORDINATED WITH THE SERVICE PROVIDER PRIOR TO INSTALLATION.
   - 4.17. MINIMUM RACEWAY SIZE SHALL BE 0.5" FOR LOCAL BRANCH CIRCUITS, 0.75" FOR HOMERUNS WITH MULTIPLE CIRCUITS, AND 1" FOR TELECOMMUNICATIONS.
5. BOXES AND ENCLOSURES
   - 5.1. BOXES SHALL BE CODE–GAUGE GALVANIZED STEEL.
   - 5.2. BOXES SHALL BE 4" SQUARE AND 2.125" DEEP, OR 4" OCTAGONAL AND 2.125" DEEP WHERE INSTALLED RECESSED IN CEILING. PROVIDE PLASTER RING WHERE RECESSED IN PLASTER OR GYPSUM BOARD WALLS.
   - 5.3. BOXES FOR FUTURE USE SHALL BE PROVIDED WITH BLANK COVERPLATES.
   - 5.4. LOCATE BOXES SO THAT COVER OR PLATE WILL NOT SPAN DIFFERENT BUILDING FINISHES.
6. **UNDERGROUND DUCTS**
   - 6.1. NOT USED.
   - 6.2. **SLOPE DUCTS** TO DRAIN TOWARDS MANHOLES AND HANDHOLES, AND AWAY FROM BUILDINGS AND BUILDING ENTRANCES.
7. LIGHTING CONTROL DEVICES
   - 7.1. TIME SWITCHES
     - 7.1.1. SOLID STATE, PROGRAMMABLE, ASTRONOMIC, WITH ALPHANUMERIC DISPLAY AND 7–DAY CONTROL.
     - 7.1.2. CONTACTS SHALL HAVE 20A BALLAST LOAD RATING AT 120–277V WITH SINGLE–POLE, SINGLE–THROW CONFIGURATION AND NUMBER OF CIRCUITS AS REQUIRED PER THE DRAWINGS.
     - 7.1.3. BATTERY BACKUP SHALL BE A MINIMUM OF 100 HOURS.
     - 7.1.4. MANUFACTURER SHALL BE INTERMATIC OR TORK.
   - 7.2. PHOTOCELL
     - 7.2.1. HEAVY DUTY DIE CAST ENCLOSURE, WEATHER, GASKETED, CONTAINING CADMIUM SULPHIDE HERMETICALLY SEALED CELL.
     - 7.2.2. CONTACTS SHALL BE SINGLE–POLE, SINGLE–THROW, NORMALLY CLOSED.
     - 7.2.3. ON–OFF ADJUSTMENT SHALL BE BY MOVABLE LIGHT LEVEL SELECTOR.
     - 7.2.4. SHALL BE DESIGNED FOR MOUNTING ON THREADED CONDUIT NIPPLE.
     - 7.2.5. MANUFACTURER SHALL BE INTERMATIC OR TORK.
   - 7.3. INDOOR OCCUPANCY AND VACANCY SENSORS
     - 7.3.1. SENSORS SHALL BE CEILING–MOUNTED OF TECHNOLOGY TYPE INDICATED ON THE DRAWINGS.
     - 7.3.2. SENSORS SHALL HAVE ADJUSTABLE AMBIENT LIGHT LEVELS, ADJUSTABLE TIME DELAY, LED INDICATOR LIGHT, 360° FIELD OF VIEW, AND A MINIMUM COVERAGE AREA OF 1000 SQ.FT.
     - 7.3.3. SENSOR LAYOUT DEPICTED ON THE DRAWINGS IS DIAGRAMMATIC IN NATURE ONLY. EXACT LOCATIONS SHALL BE DETERMINED AT THE BUILDING BASED ON MANUFACTURER'S RECOMMENDATIONS AND COORDINATION WITH OTHER TRADES.
     - 7.3.4. SENSORS SHALL BE AUTOMATIC–ON OR OCCUPANCY TYPE IN CORRIDORS, RESTROOMS, AND LOBBIES AND SHALL BE MANUAL–ON OR VACANCY TYPE IN ALL OTHER SPACES.
   - 7.4. WALL SWITCH OCCUPANCY SENSORS
     - 7.4.1. SENSORS SHALL BE RATED FOR LOADS UP TO 800VA AT 120V AND 1200VA AT 277V.
     - 7.4.2. SENSORS SHALL HAVE A 180° FIELD OF VIEW AND A MINIMUM COVERAGE AREA OF 900 SQ.FT.
     - 7.4.3. SENSORS SHALL BE DUAL–TECHNOLOGY – PASSIVE INFRARED AND ULTRASONIC.
     - 7.4.4. DEVICE FINISH SHALL BE PER ARCHITECT.
   - 7.5. LIGHTING CONTACTORS
     - 7.5.1. ELECTRICALLY OPERATED AND MECHANICALLY HELD, COMBINATION–TYPE LIGHTING CONTACTORS WITH NONFUSED DISCONNECT AND SOLID STATE CONTROL MODULES.
     - 7.5.2. CONTACTORS SHALL HAVE NUMBER OF POLES INDICATED ON THE DRAWINGS.
   - 7.6. WALL BOX DIMMER
     - 7.6.1. DIMMER SHALL HAVE SLIDE OPERATION WITH AIR–GAP SWITCH.
     - 7.6.2. DIMMERS SHALL BE 3–WAY TYPE WHERE INDICATED ON THE DRAWINGS.
     - 7.6.3. DIMMER SHALL BE COMPATIBLE WITH LIGHTING LOADS BEING SERVED.
     - 7.6.4. DEVICE FINISH SHALL BE PER ARCHITECT.
   - 7.7. LIGHTING CONTROLS DEVICES SHALL BE BY ACUITY CONTROLS, EATON GREENGATE, HUBBELL CONTROL SOLUTIONS, LEVITON, OR WATTSTOPPER, UNLESS OTHERWISE NOTED.
8. DRY–TYPE TRANSFORMERS
   - 8.1. VENTILATED, 480V, 3–PHASE, DELTA PRIMARY, 208/120V, 3–PHASE, 4–WIRE, WYE–CONNECTED SECONDARY, WITH TWO 2.5% TAPS ABOVE AND TWO 2.5% TAPS BELOW NORMAL FULL CAPACITY.
   - 8.2. TRANSFORMER SHALL HAVE 220°C INSULATION WITH 150°C TEMPERATURE RISE.
   - 8.3. COILS AND CORES SHALL BE MOUNTED ON VIBRATION ISOLATORS.
   - 8.4. INSTALL TRANSFORMERS LEVEL AND PLUMB ON A CONCRETE BASE WITH VIBRATION–DAMPENING SUPPORTS. SECURE TRANSFORMER TO CONCRETE BASE ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
9. PANELBOARDS
   - 9.1. PANELBOARD CABINET SHALL BE STEEL WITH DEAD FRONT, COMBINATION LATCH AND CYLINDER LOCK, AND HINGED DOOR–IN–DOOR TYPE.
   - 9.2. PHASE, NEUTRAL, AND GROUND BUSSES SHALL BE COPPER.
   - 9.3. WHERE INDICATED ON THE DRAWINGS, PROVIDE INTEGRAL SURGE PROTECTIVE DEVICE WITH A MINIMUM SINGLE–PULSE SURGE CURRENT WITHSTANDING RATING PER PHASE OF 150KA, NOMINAL RATING OF H20KA, LINE–TO–NEUTRAL UL 1449 VOLTAGE PROTECTION RATING OF 1200V FOR 480Y/277V AND 700V FOR 208Y/120V, AND A LINE–TO–LINE UL 1449 VOLTAGE PROTECTION RATING OF 2000V FOR 480Y/277V AND 1000V FOR 208Y/120V.
   - 9.4. PANELBOARD SHALL BE FULLY RATED TO INTERRUPT SYMMETRICAL SHORT–CIRCUIT CURRENT AVAILABLE AT TERMINALS. PANELBOARD AND OVERCURRENT PROTECTIVE DEVICES SHALL HAVE SHORT–CIRCUIT RATINGS AS SHOWN ON THE DRAWINGS.
   - 9.5. OVERCURRENT PROTECTIVE DEVICES WITHIN PANELBOARDS SHALL BE BOLT–ON MOLDED CASE THERMAL–MAGNETIC CIRCUIT BREAKERS.
   - 9.6. PANELBOARDS MOUNTED FLUSH SHALL BE PROVIDED WITH A MINIMUM OF TWO (2) 0.75" SPARE CONDUITS TO ABOVE ACCESSIBLE CEILING.
   - 9.7. PANELBOARDS SHALL BE BY SAME MANUFACTURER AS SWITCHBOARD.
10. WIRING DEVICES
    - 10.1. DUPLEX RECEPTACLES SHALL BE 125V, 20A, STRAIGHT BLADE TYPE, NEMA WD 6 CONFIGURATION 5–20R, WITH ONE–PIECE BRASS WRAP–AROUND MOUNTING STRAP WITH INTEGRAL GROUND CONTACTS.
    - 10.2. GFCI RECEPTACLES SHALL BE 125A, 20A, STRAIGHT BLADE, FEED–THROUGH TYPE, NEMA WD 6 CONFIGURATION 5–20R, UL 943 CLASS A, WITH ONE–PIECE BRASS WRAP–AROUND MOUNTING STRAP WITH INTEGRAL GROUND CONTACTS.
    - 10.3. TOGGLE SWITCHES SHALL BE 120–277V, 20A. SWITCHES SHALL BE SINGLE POLE, 3–WAY, OR 4–WAY AS INDICATED ON THE DRAWINGS.
    - 10.4. MOMENTARY–CONTACT SWITCHES SHALL BE 120–277V, 20A, SINGLE POLE, DOUBLE THROW, CENTER OFF.
    - 10.5. DEVICES SHALL BE COLORED PER ARCHITECT.
    - 10.6. DEVICE FACEPLATES SHALL BE SMOOTH, HIGH–IMPACT THERMOPLASTIC, COLORED TO MATCH DEVICE.
    - 10.7. RECEPTACLES INSTALLED OUTDOORS OR IN WET LOCATIONS SHALL BE GFCI TYPE WITH A NEMA 3R WEATHERPROOF–IN–USE COVER.
    - 10.8. RECEPTACLES INSTALLED WITHIN KITCHENS, LABORATORIES, OR BACK–OF–HOUSE SPACES SHALL BE PROVIDED WITH ADHESIVE LABEL INDICATING PANELBOARD NAME AND CIRCUIT NUMBER IN 0.25" HIGH LETTERS.
    - 10.9. RECEPTACLES SHALL NOT BE INSTALLED BACK–TO–BACK.
    - 10.10. DEVICES SHALL BE EATON, HUBBELL, LEVITON, OR PASS & SEYMOUR. DEVICES SHALL BE BY THE SAME MANUFACTURER.
11. FUSES
    - 11.1. FUSES IN DEVICES FOR MOTOR BRANCH CIRCUITS AND TRANSFORMER FEEDERS UP TO 600A SHALL BE TYPE RK–1, 600V, 200K AIC, TIME DELAY TYPE WITH CLASS R FUSE CLIPS.
    - 11.2. FUSES IN DEVICES FOR OTHER USES UP TO 600A SHALL BE TYPE J, 600V, 200K AIC, FAST–ACTING TYPE.
    - 11.3. FUSES IN DEVICES GREATER THAN 600A SHALL BE TYPE L, 600V, 200K AIC, TIME DELAY TYPE.
12. DISCONNECT SWITCHES
    - 12.1. SWITCHES SHALL BE HEAVY DUTY, HORSEPOWER RATED, 600V, CAPACITY AND POLES AS INDICATED ON THE DRAWINGS WITH LOCKABLE HANDLE. FUSIBLE SWITCHES SHALL HAVE CLASS R FUSE KIT.
    - 12.2. NONFUSIBLE SWITCHES FOR MOTOR LOADS 2HP OR SMALLER OR NONMOTOR LOADS CONNECTED TO 20A OR SMALLER CIRCUIT MAY BE MOTOR–RATED TOGGLE SWITCHES OR NONAUTOMATIC CIRCUIT AVE BREAKERS.
    - 12.3. SWITCH ENCLOSURES SHALL BE NEMA 250 TYPE 1 INDOORS AND SHALL BE NEMA 250 TYPE 4X OUTDOORS OR IN WET LOCATIONS.
13. LUMINAIRES
    - 13.1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS FOR EXACT LOCATION OF LUMINAIRES.
    - 13.2. CEILING–MOUNTED LUMINAIRES SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURE.
    - 13.3. PROVIDE LAMPS AND BALLASTS FOR FLUORESCENT LUMINAIRES.

REV	DATE	DESCRIPTION	BY

STATE OF NEW YORK · LICENSED · MICHAEL OLATUNDE ODUSELU · 103319 · PROFESSIONAL ENGINEER

2/10/2023
DATE

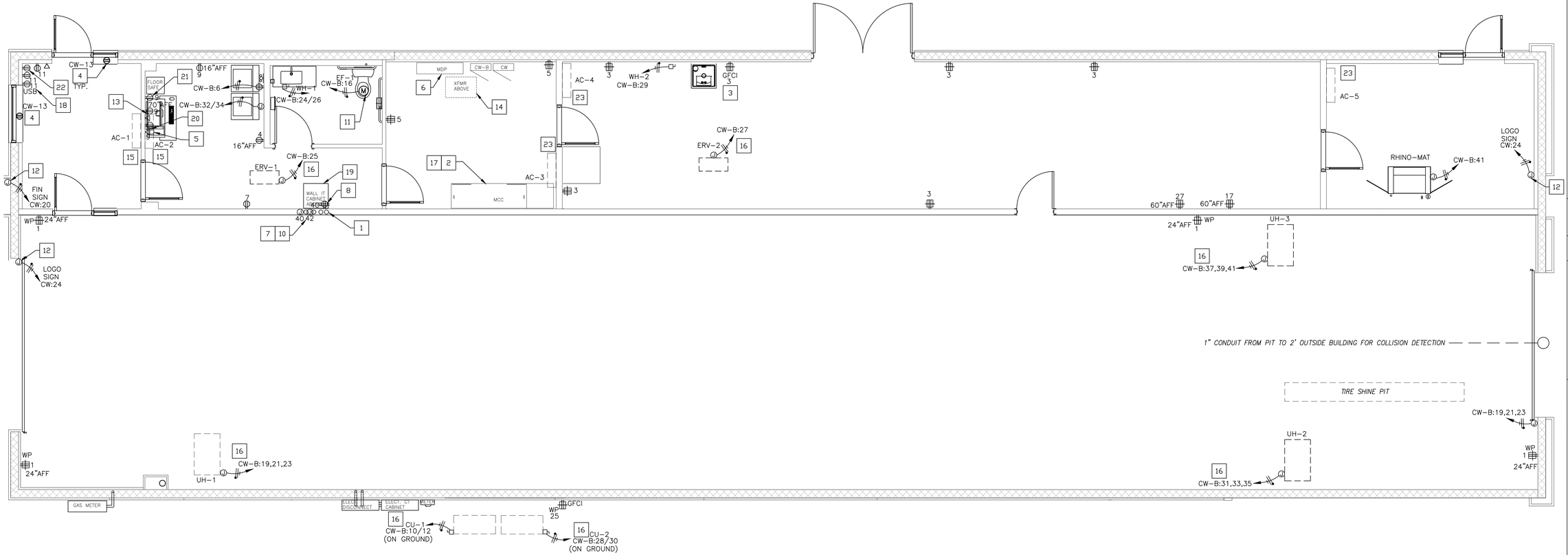
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PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY	REVIEWED BY	PROJ. MGR.	DATE ISSUED
SSU	MTO		02/10/23

TITLE: MIDWASH EXPRESS CARWASH
DESCRIPTION: 8" CMU BEARING WALLS; WOOD TRUSS ROOF FRAMING; E.I.S. WALL; METAL STUDS @ DECORATIVE WALLS; 124' NORTHERN PROTOTYPE W/120' CONVEYOR; FIN AT ENTRANCE
SITE ID: 20039D
SITE ADDRESS: 5353 SOUTHWESTERN BOULEVARD
HAMBURG, NY

SHEET NO. E–101
ELECTRICAL NOTES



1 E-102 POWER FLOOR PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. COORDINATE ALL ELECTRICAL EQUIPMENT REQUIREMENT WITH MANUFACTURE'S EQUIPMENT DRAWINGS AND GC PRIOR TO ROUGH-IN. VERIFY ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURE.
2. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF OUTLETS AND DEVICES.
3. ALL CIRCUIT FEEDERS AND DISCONNECTS SHALL BE SIZED BY NEC.
4. CONTRACTOR SHALL VERIFY CIRCUIT BREAKER, DISCONNECT SWITCH, STARTER AND FUSE SIZES WITH SELECTED EQUIPMENT MANUFACTURER'S SHOP DRAWINGS PRIOR TO PLACING ORDER AND PROVIDE AS REQUIRED.
5. LOCATION AND CONNECTION REQUIREMENTS FOR JUNCTION BOXES SERVING CAR WASH EQUIPMENT SHALL BE COORDINATED WITH DRAWING PRIOR TO INSTALLATION.
6. DUE TO FLEXIBILITY WITHIN CONDUITS STRANDED WIRE SHALL BE USED. VERIFY ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURE.
7. OUTLETS INSTALLED IN AREAS WHERE SPECIAL ELECTRICAL EQUIPMENT ARE USED SHALL BE GFCI PROTECTED PER NEC 511.12.
8. ALL RECEPTACLES ABOVE COUNTER TOP SHALL BE PLACED HORIZONTALLY 40" A.F.F.
9. ALL CIRCUIT BREAKERS FOR MOD WASH SIGN/LOGO SHALL BE LOCKABLE BREAKER TYPE.

KEY NOTES

1. 2qty- 2" CONDUIT LOW VOLTAGE TO PAY STATIONS
   1qty- 2" CONDUIT TO INTERNET PROVIDER
   1qty- 2" CONDUIT TO PAY STATION CANOPY CAMERAS
   1qty- 1" CONDUIT TO TUNNEL CONTROLLER (MCC)
2. MOTOR CONTROL CENTER TO BE PROVIDED BY OWNER.
3. TAMPER RESISTANT GFCI DUPLEX RECEPTACLE IN PUBLIC AREAS. SPECIFIED RECEPTACLE BECOMES DE-ENERGIZED UPON FAILURE OF GFCI DEVICE. COORDINATE/VERIFY EXACT LOCATION(S) AND INSTALLATION REQUIREMENTS WITH THE EC IN THE FIELD.
4. EC SHALL INSTALL MOUNT SHOW WINDOW RECEPTACLE WITHIN 18" OF TOP OF WINDOW IF NONE ARE PRESENT. PROVIDE 2#12, 1#12 GND 0.5"C IN PANEL 20A-1P CB, WHERE ADEQUATE SPACE IS FOUND.
5. DATA-BOX UNDER COUNTER (WIRES) @16" IN WALL CAVITY & ABOVE CEILING.
6. 800AMP MDP.
7. PROVIDE AND INSTALL 4'x8'x3/4" FIRE RETARDANT PLYWOOD BACKBOARD, PAINTED GRAY, FOR ITS RACK. PROVIDE #6 GROUND TO GROUND BUS IN PANEL BOARD MDP. PROVIDE TWO (2) 2" PVC CONDUITS WITH PULLSTRING TO TELEPHONE COMPANY PULL BOX. COORDINATE LOCATION AND TERMINATION REQUIREMENTS WITH SERVICE PROVIDED PRIOR TO INSTALLATION. PROVIDE 6U WALL-MOUNTED SERVER CABINET.
8. MOUNT DEDICATED QUAD RECEPTACLE 9' A.F.F, FOR I.T. RACK/CABINET LOCATED 12" BELOW CEILING.
9. RECEPTACLE AND TELECOMMUNICATIONS OUTLET. COORDINATE PLACEMENT HEIGHT PRIOR TO INSTALLATION.
10. I.T. CABINET 36"H x 23.5"W x 23.63"D SHALL BE MOUNTED 12" BELOW CEILING IN OFFICE. OWNER PROVIDED COMMUNICATION EQUIPMENT. LOW VOLTAGE CONDUIT AND INCOMING PHONE CONDUIT STUB IN THIS CORNER MOUNT @ 108" A.F.F.
11. PROVIDE A 120V, NEMA 1, 15A/1P MOTOR RATED DISCONNECT SWITCH AT THE UNIT IF NOT PROVIDED BY MANUFACTURER. PROVIDE 2#12, 1#12(G)-3/4"C FROM BREAKER TO DISCOUNT SWITCH FOR EF-1. FAN SHALL BE INTERLOCKED WITH RESTROOM LIGHTING VIA LIGHT SWITCH.
12. PROVIDE A JUNCTION BOX FOR CAR WASH SIGN(S). TRANSFORMER/ JUNCTION BOX LOCATED ABOVE CEILING IN LOBBY/ MECHANICAL ROOM. COORDINATE EXACT LOCATION WITH ARCHITECTURAL SHEET AND MANUFACTURER REQUIREMENTS IN FIELD WITH GC.
13. 32" TV MONITOR OUTLET AND DATA CONNECTION 70" A.F.F. COORDINATE MOUNTING HEIGHT WITH EQUIPMENT PRIOR TO INSTALLATION. BLOCKING BEHIND DRYWALL. PROVIDE 1"CONDUIT FOR INSTALLATION.
14. 75KVA TRANSFORMER SHALL BE MOUNTED ON THE WALL IN THE ELECTRICAL ROOM. PLEASE REFER TO STRUCTURAL DRAWINGS FOR DETAILS. VERIFY WORKING CLEARANCE PER NEC 110.26.
15. INDOOR UNIT (AC-1 & AC-2) IS POWERED FROM OUTDOOR UNIT (CU-2), PROVIDE 2#12, 1#12 GRD, & 3/4 COND AND INSTALL PER MANUFACTURER'S INSTRUCTIONS.
16. PROVIDE A 15AMP, SINGLE PHASE, 125V RECEPTACLE LOCATED 25FT OF HEATING, AIR CONDITIONING AND REFRIGERATION EQUIPMENT PER NEC 210.63.
17. PROVIDE A 4" HIGH CONCRETE HOUSEKEEPING PAD FOR MCC. PLEASE REFER TO STRUCTURAL DRAWINGS FOR DETAILS.
18. USB 2" ABOVE COUNTER @40"A.F.F. AND TWO RECPT. 2" ABOVE COUNTER @42"A.F.F.
19. EC TO PROVIDE EQUIPMENT GROUNDING CONDUCTOR TO DATA RACK IN THE OFFICE.
20. RECPT. 2" ABOVE COUNTER @40"A.F.F. COMMUNICATION RECPT. 2" ABOVE COUNTER @40"A.F.F. SEE A-401 FOR ELEVATIONS.
21. RECPT. BELOW COUNTER AT 16"A.F.F. SEE A-401 FOR ELEVATIONS.
22. TWO RECPT. 2" ABOVE COUNTER @40"A.F.F. AND ONE BELOW COUNTER AT 16"A.F.F.SEE A-401 FOR ELEVATIONS.
23. INDOOR UNIT (ACU-3 & ACU-4) IS POWERED FROM OUTDOOR UNIT (CU-1), PROVIDE 2#12, 1#12 GRD, & 3/4 COND AND INSTALL PER MANUFACTURER'S INSTRUCTIONS.

EQUIPMENT CONNECTION SCHEDULE

EQUIPMENT	LOCATION	SIZE	VOLTAGE	DISCONNECT	PANELBOARD
EF-1	RESTROOM	18.1 W	115V/1P	BY MFR	CW-B
UH-1/2/3	TUNNEL	6.2 MCA	208V/3P	BY MFR	CW-B
ERV-1	BREAKROOM	121W	120V/1P	BY MFR	CW-B
ERV-2	EQUIPMENT	121W	120V/1P	BY MFR	CW-B
CU-1/2	OUTDOOR	24.6 MCA	208V/1P	BY MFR	CW-B
WH-1	RESTROOM	6000W	240V/1P	BY MFR	CW-B
WH-2	EQUIPMENT	240W	120V/1P	BY MFR	CW-B

NOTES:
1. DISCONNECT NOMENCLATURE IS AMPERES/POLES/FUSED OR NONFUSED/ENCLOSURE TYPE IF OTHER THAN NEMA 1.
2. SEE ELECTRICAL EQUIPMENT SCHEDULES FOR ADDITIONAL INFORMATION REGARDING ASSOCIATED CIRCUIT BREAKER, CONDUCTORS, RACEWAY, ETC.

BY	DESCRIPTION	DATE	REV

STATE OF NEW YORK
MICHAEL OLATUNDE ODUSELU
LICENSED PROFESSIONAL ENGINEER
108319

2/10/2023
DATE

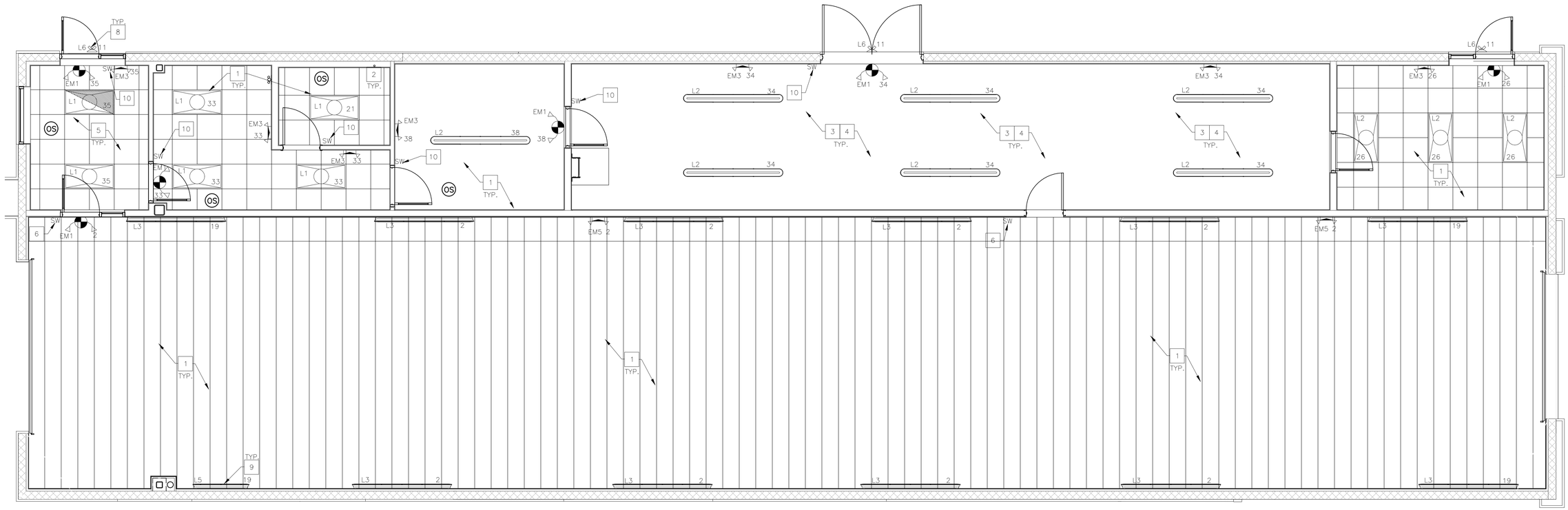
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PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY: SSI
REVIEWED BY: MTO
PROJ. MGR.
DATE ISSUED: 02/10/23

TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION: 8" CMU BEARING WALLS; WOOD TRUSS ROOF FRAMING; E.F.I.S ON METAL STUDS @ DECORATIVE WALLS & FIN WALLS; 124' NORTHERN PROTOTYPE W/120' CONVEYOR; FIN AT ENTRANCE
SITE ID: 20089D
SITE ADDRESS: 5363 SOUTHWESTERN BOULEVARD HAMBURG, NY

SHEET NO. E-102
POWER FLOOR PLAN



1 E-103 LIGHTING PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. COORDINATE ALL ELECTRICAL EQUIPMENT REQUIREMENT WITH MANUFACTURE'S EQUIPMENT DRAWINGS AND GC PRIOR TO ROUGH-IN. VERIFY ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURE.
2. E.C. TO VERIFY EXACT LIGHT FIXTURE TYPE MANUFACTURER WITH OPERATOR AND ARCHITECT PRIOR TO ORDERING. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR ADDITIONAL INFORMATION.
3. BRANCH CIRCUITS SHALL BE HOMERUN TO PANEL BOARD CW-B UNLESS OTHERWISE INDICATED.
4. ALL CIRCUIT CIRCUIT BREAKERS, FEEDERS AND DISCONNECTS SHALL BE SIZED BY NEC.
5. EXTERIOR LIGHTING SHALL BE HOMERUN TO THE PANEL BOARD CW.
6. EXIT AND EMERGENCY LIGHTING FIXTURES EM1, EM3, EM5, AND L6 SHALL BE FED FROM LOCAL CIRCUIT AND HAVE 90 MINUTE BATTERY BACKUP PER NEC 700.12(F)(2).
7. PER 1008.3.2 (5) EMERGENCY POWER FOR ILLUMINATION, EXTERIOR EMERGENCY LIGHTING SHALL BE PROVIDED TO ILLUMINATE THE EXTERIOR LANDING.
8. THE OPERATING VOLTAGE OF ALL FIXTURES SHALL BE COORDINATED IN THE FIELD BY THE ELECTRICAL CONTRACTOR. FIXTURE VOLTAGE SHALL MATCH THE OPERATING VOLTAGE OF THE LOCAL PANEL SERVING THE NEW FIXTURES.
9. ANY 120 VOLT BRANCH CIRCUIT FEEDER LONGER THAN 75'-0" TO LAST DEVICE SHALL BE SIZED TO THE NEXT LARGER STANDARD AWG SIZE. E.C. SHALL FIELD VERIFY ALL LENGTHS OF FEEDERS.

KEY NOTES

1. ALL INTERIOR LIGHT FIXTURES SHALL BE 120 VOLT UNLESS NOTED OTHERWISE AND SHALL BE HUNG AT 9'AFF CONFIRM WITH ARCHITECTURAL DRAWINGS.
2. CONNECT EMERGENCY BALLAST OR BATTERY BACKUP OF EMERGENCY LIGHT OR EXIT SIGN TO UN-SWITCHED CONTINUOUSLY HOT CONDUCTOR OF LOCAL LIGHTING CIRCUIT INDICATED.
3. LIGHTING FIXTURES AND LAMPS HAVE BEEN CHOSEN TO ACHIEVE MAXIMUM ENERGY CONSERVATION WHILE MAINTAINING ADEQUATE LEVEL OF ILLUMINATION. LAMP AND BALLAST SPECIFICATIONS SHALL BE STRICTLY FOLLOWED.
4. CONTRACTOR SHALL COORDINATE FINAL LIGHT FIXTURE SCHEDULE INFORMATION WITH ARCHITECT AND OWNER PRIOR TO ORDERING.
5. BRANCH CIRCUITS SHALL BE HOMERUN TO PANEL BOARD CW UNLESS OTHERWISE INDICATED.
6. THREE-WAY TOGGLE SWITCH FOR TUNNEL LIGHTING CONTROL. ALL SWITCHES AT 44" A.F.F. AND AT STANDARD LOCATION.
7. RESTROOM LIGHT FIXTURE WILL REQUIRE MOUNTING ACCESSORIES SK-24-WS
8. EMERGENCY LIGHTING TO BE FED FROM CW-11 AND HAVE 90 MINUTE BATTERY BACKUP.
9. LIGHT SWITCH ON THIS CIRCUIT SHALL BE LOCATED IN MANAGER'S OFFICE.
10. ALL WIRING IN CEILING ABOVE OFFICE/LOBBY MUST BE PLENUM RATED.
11. ALL SWITCHES AT 44" A.F.F. AND AT STANDARD LOCATION.

LIGHTING FIXTURE SCHEDULE

MARK	SYMBOL	DESCRIPTION	COUNT	LAMPS			VOLTAGE	MANUFACTURER AND CATALOG NUMBER
				WATTS	TEMP	LUMENS		
L1		2X4 DIRECT/INDIRECT WITH PERFORATED BASKET	9	32W	4000K	4000	120	MET 24CZ2-35-RDP-UNV-L835-CD1-U
L2		8'LED WITH HASH ENVIRONMENT ENCLOSURE, SMOOTH CLEAR LENS WET LOCATION, 4000K	7	114W	4000K	13600	120	MET 8VT2-LD5-16-DR-UNV-L840-CD2-WL-MSL20-U
L3		LED GASKETED INDUST. LUMINAIRE WITH FROSTED RIBBED IMPACT RESISTANT. WET LOCATION LISTED.	11	114W	4000K	13600	120	MET 8VT2-LD5-16-FR50-UNV-L840-CD2-WL-MSL20-U
L5		LED GASKETED INDUST. LUMINAIRE WITH FROSTED RIBBED IMPACT RESISTANT. WET LOCATION LISTED.	1	51W	4000K	6000	120	MET 4VT2-LD5-6-F50-UNV-L840-CD1-WL-MSL20-U
L6		OUTDOOR LED DOUBLE HEAD LIGHTING SERIES.	3	3W	–	300	120	GWC-SA1A-740-U-T4W-WH-CBP-CEC
EM1		LED EXIT SIGN. SURFACE FACE RED LETTERS WITH BATTERY. UL WET LOCATION LISTED	6	3.7W	–	–	120	TEXZEMR1C
EM3		EEM4 MR16 LED REMOTE CAPABLE THERMOPLASTIC EMERG. UNIT	7	7W	–	–	120	TEBL6W
L7		REGRESSED LED 8" DOWN-LIGHT WALL WASH	0	70W	4000K	8000	120	HC880D010-HM86080840-81WDC
EM5		WET LOCATION LISTED EMRG WITH TWO MR16 LED 5W LAMPS. AUTO. CAPABLE. IP65 CERTIFIED	2	10W	–	–	120	TCSWL- LED

* EC TO EITHER USE PREFERRED LIGHTING VENDOR OR PROVIDE MATERIALS PRICING BREAKOUT PACKAGE
EC SHALL VERIFY ALL QUANTITIES OF LIGHT FIXTURES. NOT ALL FIXTURE TYPES MAY BE USED.

REV	DATE	DESCRIPTION	BY

STATE OF NEW YORK ★ LICENSED PROFESSIONAL ENGINEER ★ MICHAEL OLATUNDE ODUSELU 108319

2/10/2023
DATE

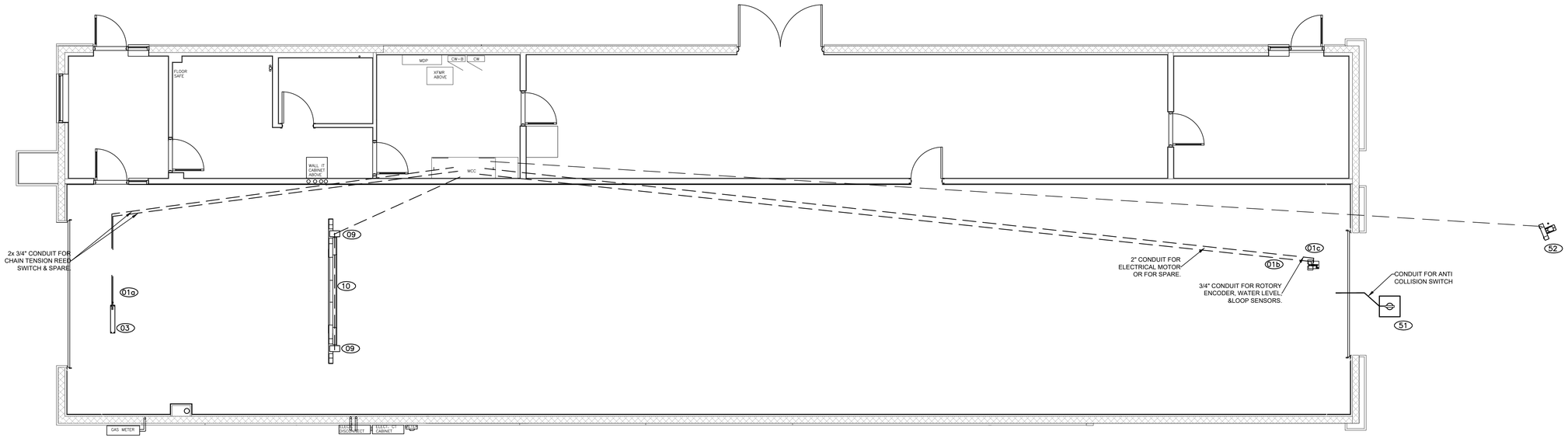
PREPARED BY:
MICHAEL ODUSELU, P.E.
809 TRAMORE ROAD
ACWORTH, GEORGIA 30102
PHONE: (678) 595-7872

PREPARED FOR:
Hutton SITE REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY	REVIEWED BY	PROJ. MGR.	DATE ISSUED
SSJ	MTO		02/10/23

TITLE: MIDWASH EXPRESS CARWASH
DESCRIPTION: 8" CMU BEARING WALLS
WOOD TRUSS ROOF FRAMING
E.F.S. ON METAL STUDS @ DECORATIVE WALLS
& FIN WALL
124' NORTHERN PROTOTYPE W/120' CONVEYOR
FIN AT ENTRANCE
SITE ID 20089D
SITE ADDRESS 5363 SOUTHWESTERN BOULEVARD
HAMBURG, NY

SHEET NO. E-103
LIGHTING PLAN



1 E-104 UNDERGROUND CONDUITS
SCALE: 3/16" = 1'-0"

EQUIPMENT LIST

ITEM #	LOCATION	DESCRIPTION	CONDUIT SIZE
01a	TUNNEL	XR-1000 CHAIN TENSION REED SWITCH	(2) 3/4"
01b	TUNNEL	CONVEYOR MOTOR	2"
01c	TUNNEL	XR-1000 ROTORY ENCODER & FLOAT SWITCHES	3/4"
03	TUNNEL	TAPE SWITCH FOR CTA'S	3/4"
09	TUNNEL	DOUBLE PHOTO EYES	3/4"
10	TUNNEL	TAPE SWITCH FOR CTA'S	3/4"
51	OUTDOOR	ANTI COLLISION PAD	3/4"
52	OUTDOOR	TRAFFIC COMMANDER	3/4"

BY	DESCRIPTION	DATE	REV

STATE OF NEW YORK ★ MICHAEL OLATUNDE ODUSELU ★ LICENSED PROFESSIONAL ENGINEER 108319

2/10/2023
DATE

PREPARED BY:
MICHAEL ODUSELU, P.E.
809 TRAMORE ROAD
ACWORTH, GEORGIA 30102
PHONE: (678) 595-7872

PREPARED FOR:
Hutton SITE REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY: SSJ
REVIEWED BY: MTO
PROJ. MGR.:
DATE ISSUED: 02/10/23

TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION: 8" CMU BEARING WALLS
WOOD TRUSS ROOF FRAMING
EIFS ON METAL STUDS @ DECORATIVE WALLS
& PAINTED WALL
124' NORTHERN PROTOTYPE W/120' CONVEYOR
FIN. AT ENTRANCE
SITE ID: 200890
SITE ADDRESS: 3363 SOUTHWESTERN BOULEVARD
HAMBURG, NY

SHEET NO. E-104
UNDERGROUND CONDUITS

PANELBOARD SCHEDULE CW

LOCATION ELEC ROOM

	DESIGNATION	WIRE SIZE	LOAD VA	POLES /AMPS	C K.	P H.	C K.	POLES /AMPS	LOAD VA	WIRE SIZE	DESIGNATION	
O	WATER SERVICE HOT BOX; 2#12, #12GND-3/4"C	12	1100	1/20	1	A	2	1/20	1300	12	TUNNEL LTG/EMG; 2#12, #12GND-3/4"C	L
O	MCC 4#6, #8GND-1"C	6	4800	1/50	3	B	4	1/20	252	12	20"D GATES; 2#12, #12GND-1"C	O
O	R.O. CARBON TANK; 3#12, #12GND-3/4"C	12	110	1/20	5	C	6	1/20	252	12	20"D GATES; 2#12, #12GND-1"C	O
O	MENU DISPLAY; 2#10, #10GND-1"C	10	336	1/20	7	A	8	1/20	996	12	PAY STATION; 2#12, #12GND-1"C	O
O	MENU DISPLAY; 2#10, #10GND-1"C	10	336	1/20	9	B	10	1/20	996	12	PAY STATION; 2#12, #12GND-1"C	O
L	OUTDOOR LTG; 2#12, #12GND-3/4"C	12	200	1/20	11	C	12	1/20	--	--	SPARE;	A
R	CEILING RECPT; 2#12, #12GND-3/4"C	12	400	1/20	13	A	14	1/20	800	12	OUTLET FOR POS; 2#12, #12GND-1"C	O
O	MENU DISPLAY; 2#10, #10GND-1"C	10	336	1/20	15	B	16	1/20	792	12	AIR DRYER; 3#12, #12GND-3/4"C	O
O	SECURITY CAMERA; 2#10, #10GND-1"C	12	500	1/20	17	C	18	1/20	996	12	PAY STATION; 2#12, #12GND-1"C	O
L	TUNNEL LGT; 2#12, #12GND-3/4"C	12	460	1/20	19	A	20	1/20	250	12	FIN SIGN; 2#12, #12GND-3/4"C	L
L	REST RM LTG/EMG; 2#12, #12GND-3/4"C	12	32	1/20	21	B	22	1/20	--	--	SPARE;	
L	PYLON SIGN 2#10, #10GND-3/4"C [L]	10	1620	1/20	23	C	24	1/20	117	12	LOGO SIGNS; 2#12, #12GND-3/4"C	L
R	OUTSIDE RECPT; 2#12, #12GND-3/4"C	12	500	1/20	25	A	26	1/20	107	12	MAT CLEANER LTG/EMG 2#12, #12GND-3/4"C	L
O	IRRIGATION CONTROLLER; 2#12, #12GND-3/4"C	12	500	1/20	27	B	28	1/20	252	12	20"D GATES; 2#12, #12GND-1"C	O
	SPARE	--		1/20	29	C	30	1/20	348	12	SENDING STATION/VQ 2#12, #12GND-3/4"C	O
R	COUNTER PWR; 2#12, #12GND-3/4"C	12	200	1/20	31	A	32	1/20	500	12	CANOPY LIGHTS; 2#12, #12GND-3/4"C	L
L	BRK RM LTG/EMG; 2#12, #12GND-3/4"C	12	114	1/20	33	B	34	1/20	702	12	MECH LTG/EMG; 2#12, #12GND-3/4"C	L
L	OFFICE. LTG/EMG; 2#12, #12GND-3/4"C	12	75	1/20	35	C	36	1/20	50	12	RESTROOM LTG/EMG; 2#12, #12GND-3/4"C	L
O	LN.PLATE READ; 2#12, #12GND-1"C	12	1000	1/20	37	A	38	1/20	456	12	ELEC LTG/EMG; 2#12, #12GND-3/4"C	L
O	LN.PLATE READ; 2#12, #12GND-1"C	12	1000	1/20	39	B	40	1/20	1920	12	IT RECEP; 2#12, #12GND-3/4"C	O
O	RHINO MAT; 2#8, #8GND-3/4"C	8	3600	1/40	41	C	42	1/20	1920	12	IT CABINET; 2#12, #12GND-3/4"C	O
			17219						13006			

	CATEGORY	CONN. LOAD KVA	AMPS	DEMAND FACTOR	DEMAND LOAD KVA	AMPS
L	LIGHTING	6.58	18	1.25	8.22	23
R	RECEPTACLE:	1.10	3	1	1.10	3
M	MOTORS:	0.00	0	1	0.00	0
K	KITCHEN EQUIPMENT:	0.00	0	0.65	0.00	0
A	AIR CONDITION:	0.00	0	1	0.00	0
H	HEAT (ELECTRIC):	0.00	0	1	0.00	0
O	OTHER LOAD:	23.14	64	1	23.14	64
	SUB TOTAL	30.82	86		32.46	90
	SPARE			0%	0.00	0
	CONTINUOUS:	6.58	18	0.25		5
		0.00				
	TOTAL:	30.82	86	1.05	32.46	90

MOUNTED:	SURFACE
VOLTS:	120/208
PHASE/WIRE:	3/4
MAIN SIZE:	200 AMPS
MAIN TYPE:	MCB
BUS TYPE:	COPPER
SERIES RATED	

PHASE LOADING		% UNBALANCE
PHASE 'A':	8405	16.6
PHASE 'B':	12032	19.4
PHASE 'C':	9788	2.8

GROUND BUS

REMARKS:
* 65KAIC, MOUNT: FLUSH

Thu Feb 9, 2023 9:47

PANELBOARD SCHEDULE CW-B

LOCATION ELEC ROOM

	DESIGNATION	WIRE SIZE	LOAD VA	POLES /AMPS	C K.	P H.	C K.	POLES /AMPS	LOAD VA	WIRE SIZE	DESIGNATION	
R	REC TUNNEL, GFI; 2#12, #12GND-3/4"C	12	700	1/20	1	A	2	1/20	200	12	VACUUM LGT 2#12, #12GND-3/4"C	L
R	REC MECH, GFI ; 2#12, #12GND-3/4"C	12	700	1/20	3	B	4	1/20	725	12	REFRIGERATOR; 2#12, #12GND-3/4"C	O
R	REC ELEC, GFI; 2#12, #12GND-3/4"C	12	1000	1/20	5	C	6	1/20	1000	12	WASH MACHINE; 2#12, #12GND-3/4"C	O
R	REC CORRIDOR; 2#12, #12GND-3/4"C	12	700	1/20	7	A	8	1/20	500	12	VISUAL TERMINAL; 2#12, #12GND-3/4"C	O
R	REC OFFICE; 2#12, #12GND-3/4"C	12	900	1/20	9	B	10	2/20	2218	12	CU-1 2#12, #10GND-3/4"C	A
R	REC LOBBY; 2#12, #12GND-3/4"C	12	500	1/20	11	C	12		2218	--	--	A
R	REC LOBBY; 2#12, #12GND-3/4"C	12	500	1/20	13	A	14	1/20	1920	12	RECLAIM SYSTEM; 3#12, #12GND-3/4"C	O
R	REC WATER FAN, GFI; 2#12, #12GND-3/4"C	12	500	1/20	15	B	16	1/20	19	12	EF-1, GFI; 2#12, #12GND-3/4"C	O
L	VACUUM LTG; 2#12, #12GND-3/4"C	12	200	1/20	17	C	18	1/20			SPARE	
A	UH-1 3#12, #12GND-3/4"C	12	745		19	A	20	1/15	1440	14	WATER SOFTENER; 2#14, #14GND-3/4"C	O
A	--	--	745	3/15	21	B	22	1/15	1440	14	WATER SOFTENER; 2#14, #14GND-3/4"C	O
A	--	--	745		23	C	24	2/30	3000	10	WH-1; 2#10, #10GND-3/4"C	H
A	ERV-1 2#12, #14GND-3/4"C	14	121	1/15	25	A	26		3000	--	--	H
A	ERV-2 2#12, #14GND-3/4"C	14	121	1/15	27	B	28	2/30	3838	10	CU-2; 2#10, #10GND-3/4"C	A
H	WH-2; 2#12, #14GND-3/4"C	14	240	1/20	29	C	30		3838	--	--	A
A	UH-2 3#12, #12GND-3/4"C	12	745		31	A	32	2/20	1000	12	DRYER ; 2#12, #12GND-3/4"C	O
A	--	--	745	3/15	33	B	34		1000	--	--	O
A	--	--	745		35	C	36	1/20			SPARE	
A	UH-3 3#12, #12GND-3/4"C	12	745		37	A	38		1921	12	EAST PWR ROLL-UP DOOR; 3#12, #12GND-1"C	O
A	--	--	745	3/15	39	B	40	3/20	1921	--	--	O
A	--	--	745		41	C	42		1921	--	--	O
			12887						33119			

	CATEGORY	CONN. LOAD KVA	AMPS	DEMAND FACTOR	DEMAND LOAD KVA	AMPS
L	LIGHTING	0.40	1	1.25	0.50	1
R	RECEPTACLE:	5.50	15	1	5.50	15
M	MOTORS:	0.00	0	1	0.00	0
K	KITCHEN EQUIPMENT:	0.00	0	0.65	0.00	0
A	AIR CONDITION:	19.06	53	1	19.06	53
H	HEAT (ELECTRIC):	6.24	17	1	0.00	0
O	OTHER LOAD:	14.81	41	1	14.81	41
	SUB TOTAL	46.01	128		39.87	111
	SPARE			0%	0.00	0
	CONTINUOUS:	0.40	1	0.25		0
	LARGEST MOTOR:	0.00				
	TOTAL:	46.01	128	0.87	39.87	111

MOUNTED:	SURFACE
VOLTS:	120/208
PHASE/WIRE:	3/4
MAIN SIZE:	200 AMPS
MAIN TYPE:	MCB
BUS TYPE:	COPPER
SERIES RATED	

PHASE LOAD	1	% UNBALANCE
PHASE "A":	14292	7.1
PHASE 'B':	15670	1.8
PHASE 'C':	16204	5.3

GROUND BUS

REMARKS:
* 65KAIC, MOUNT: FLUSH

Mon Feb 13, 2023 9:37

PANELBOARD SCHEDULE MDP

LOCATION EXTERIOR

	DESIGNATION	WIRE SIZE	LOAD VA	POLES /AMPS	C K.	P H.	C K.	POLES /AMPS	LOAD VA	WIRE SIZE	DESIGNATION	
	SPACE	--			1	A	2			--	SPACE	
	SPACE	--			3	B	4			--	SPACE	
	SPACE	--			5	C	6			--	SPACE	
X	XFMR	2	22590		7	A	8		105463	350	MOTOR CONTROL CENTER	X
X	--	--	27180	3/125	9	B	10	3/600	105315	--	--	X
X	--	--	26470		11	C	12		105315	--	--	X
	SPACE	--			13	A	14	1/20	900	10	EXT/ SITE LTG; 2#10, #10GND-3/4"C	L
	SPACE	--			15	B	16	1/20	900	10	EXT/ SITE LTG; 2#10, #10GND-3/4"C	L
	SPACE	--			17	C	18			--	SPACE	
			76240						317893			

	CATEGORY	CONN. LOAD KVA	AMPS	DEMAND FACTOR	DEMAND LOAD KVA	AMPS
L	LIGHTING	8.78	11	1.25	10.97	13
R	RECEPTACLE:	6.60	8	1	6.60	8
M	MOTORS:	315.95	380	1	315.95	380
K	KITCHEN EQUIPMENT:	0.00	0	0.65	0.00	0
A	AIR CONDITION:	20.02	24	1	20.02	24
H	HEAT (ELECTRIC):	6.24	8	1	0.00	0
O	OTHER LOAD:	36.95	44	1	36.95	44
	SUB TOTAL	394.53	475		390.48	470
	SPARE			0%	0.00	0
	CONTINUOUS:	8.78	11	0.25		3
	LARGEST MOTOR:	1.50	2	0.25		0
	TOTAL:	394.53	475	0.99	390.48	470

MOUNTED:	SURFACE
VOLTS:	277/480
PHASE/WIRE:	3/4
MAIN SIZE:	800 AMPS
MAIN TYPE:	MCB
BUS TYPE:	COPPER
FULLY RATED	65 KAIC

PHASE LOADING		% UNBALANCE
PHASE 'A':	128953	1.8
PHASE 'B':	133395	1.5
PHASE 'C':	131785	0.3

GROUND BUS

REMARKS:

Thu Feb 9, 2023 9:15

SCHEDULE XFMR

75KVA 3 PHASE 60HZ

LOCATION EXTERIOR **Primary Voltage:480V, Secondary Voltage:208/120V**

	DESIGNATION	WIRE SIZE	LOAD VA	POLES /AMPS	C K.	P H.	C K.	POLES /AMPS	LOAD VA	WIRE SIZE	DESIGNATION	
X	PANEL CW	3/0	8298		1	A	2		14292	3/0	PANEL CW-B	X
X	--	--	12032	3/200	3	B	4	3/200	15148	--	--	X
X	--	--	9788		5	C	6		16682	--	--	X
	SPACE	--			7	A	8			--	SPACE	
	SPACE	--			9	B	10			--	SPACE	
	SPACE	--			11	C	12			--	SPACE	
	SPACE	--			13	A	14			--	SPACE	
	SPACE	--			15	B	16			--	SPACE	
	SPACE	--			17	C	18			--	SPACE	
			30118						46122			

GROUND BUS

Thu Feb 9, 2023 9:13

PANELBOARD SCHEDULE MCC

LOCATION ELEC ROOM

	DESIGNATION	WIRE SIZE	LOAD VA	POLES /AMPS	C K.	P H.	C K.	POLES /AMPS	LOAD VA	WIRE SIZE	DESIGNATION	
M	CONVEYOR MOTOR	12	2072		1	A	2		2550	12	CAROLINA PRIDESCC PUMP (2)	M
M	--	--	2072	3/20	3	B	4	3/20	2550	--	--	M
M	--	--	2072		5	C	6		2550	--	--	M
M	TOP BRUSH WITH 94 INCH CORE (2)	12	1541		7	A	8		1541	12	LOW SIDE WASHER WITH 45° CORE (2)	M
M	--	--	1541	3/20	9	B	10	3/20	1541	--	--	M
M	--	--	1541		11	C	12		1541	--	--	M
M	IDC DRYERS WITH AIR KNIVES	8	5778		13	A	14		1541	12	SUPERFLEX WRAP AROUND- LONG ARMS (2)	M
M	--	--	5778	3/40	15	B	16	3/20	1541	--	--	M
M	--	--	5778		17	C	18		1541	--	--	M
M	IDC DRYER ON X-WIDE PROBUILD	8	5778		19	A	20		1541	12	HIGH SIDE WASHERS (2)	M
M	--	--	5778	3/40	21	B	22	3/20	1541	--	--	M
M	--	--	5778		23	C	24		1541	--	--	M
M	IDC DRYERS WITH AIR KNIVES	8	5778		25	A	26		1542	12	GLOSS BRUSH (2)	M
M	--	--	5778	3/40	27	B	28	3/20	1542	--	--	M
M	--	--	5778		29	C	30		1542	--	--	M
M	IDC DRYERS WITH AIR KNIVES	8	5778		31	A	32		3719	12	AIR COMPRESSOR	M
M	--	--	5778	3/40	33	B	34	3/20	3719	--	--	M
M	--	--	5778		35	C	36		3719	--	--	M
M	R.O SYS/R.O. RJCT. REPR. PUMP (2)	12	3453		37	A	38		3984	12	MAGNUM HIGH PRESSURE PUMP (15HP)	M
M	--	--	3453	3/20	39	B	40	3/20	3984	--	--	M
M	--	--	3453		41	C	42		3984	--	--	M
M	MAGNUM DIRECT DRIVE PUMPING STATION	12	1992		43	A	44		3984	12	MAGNUM HIGH PRESSURE POWER PUMP (15HP)	M
M	--	--	1992	3/20	45	B	46	3/20	3984	--	--	M
M	--	--	1992		47	C	48		3984	--	--	M
M	RECLAIM SYSTEM	12	2019		49	A	50		2922	12	HYDRAULIC POWERPACK	M
M	--	--	2019	3/20	51	B	52	3/20	2922	--	--	M
M	--	--	2019		53	C	54		2922	--	--	M
M	IDC DRYERS WITH AIR KNIVES	8	5778		55	A	56		5778	8	IDC DRYERS WITH AIR KNIVES	M
M	--	--	5778	3/40	57	B	58	3/40	5778	--	--	M
M	--	--	5778		59	C	60		5778	--	--	M
M	IDC DRYERS WITH AIR KNIVES	8	5778		61	A	62		3719	12	HYDRAULIC POWERPACK	M
M	--	--	5778	3/40	63	B	64	3/20	3719	--	--	M
M	--	--	5778		65	C	66		3719	--	--	M
M	IDC DRYERS WITH AIR KNIVES	8	5778		67	A	68		3719	12	HYDRAULIC POWERPACK	M
M	--	--	5778	3/40	69	B	70	3/20	3719	--	--	M
M	--	--	5778		71	C	72		3719	--	--	M
M	IDC DRYERS WITH AIR KNIVES	8	5778		73	A	74		3719	12	AIR COMPRESSOR	M
M	--	--	5778	3/40	75	B	76	3/20	3719	--	--	M
M	--	--	5778		77	C	78		3719	--	--	M
M	R.O. REPRESURIZATION PUMP/BOOSTER PUMP	12	2177		79	A	80		5578	12	MAGNUM WHEEL BOSS WITH FOAM BRUSH (2)	M
M	--	--	2177	3/20	81	B	82	3/20	5578	--	--	M
M	--	--	2177		83	C	84		5578	--	--	M
			178434						137511			

	CATEGORY	CONN. LOAD KVA	AMPS	DEMAND FACTOR	DEMAND LOAD KVA	AMPS
L	LIGHTING	0.00	0	1.25	0.00	0
R	RECEPTACLE:	0.00	0	1	0.00	0
M	MOTORS:	315.95	380	1	315.95	380
K	KITCHEN EQUIPMENT:	0.00	0	0.65	0.00	0
A	AIR CONDITION:	0.00	0	1	0.00	0
H	HEAT (ELECTRIC):	0.00	0	1	0.00	0
O	OTHER LOAD:	0.00	0	1	0.00	0
	SUB TOTAL	315.95	380		315.95	380
	SPARE			0%	0.00	0
		0.00				
	LARGEST MOTOR:	0.00				
	TOTAL:	315.95	380	1.00	315.95	380

MOUNTED:	SURFACE
VOLTS:	277/480
PHASE/WIRE:	3/4
MAIN SIZE:	600 AMPS
MAIN TYPE:	MLO
BUS TYPE:	COPPER
SERIES RATE	

PHASE LOADING		% UNBALANCE
PHASE 'A':	105463	0.1
PHASE 'B':	105315	0.0
PHASE 'C':	105315	0.0

PROVIDE ISOLATED GND BUS

REMARKS:
* 65KAIC, MOUNT: WALL

Mon Feb 13, 2023 9:37

GENERAL NOTES

1. COORDINATE ALL ELECTRICAL EQUIPMENT REQUIREMENT WITH MANUFACTURE'S EQUIPMENT DRAWINGS AND GC PRIOR TO ROUGH–IN. VERIFY ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURE INSTRUCTIONS.
2. ELECTRICAL CONTRACTOR SHALL VERIFY ALL OUTLET CONFIGURATIONS WITH EQUIPMENT MANUFACTURERS PRIOR TO ROUGH–IN.
3. FIELD COORDINATE EXACT LOCATION OF PANEL WITH ARCHITECT/OWNER. MAINTAIN PROPER CLEARANCE IN ACCORDANCE WITH THE ADOPTED EDITION OF THE N.E.C
4. ALL CIRCUITS SHOWN ON PLAN AND SCHEDULE ARE FOR GROUPING PURPOSES ONLY. ACTUAL CIRCUIT NUMBERS IN FIELD MAY VARY. CONTRACTOR SHALL VERIFY ALL CIRCUITS IN FIELD AND UPDATE PANEL SCHEDULES OF PANELS ASSOCIATED WITH NEW CONSTRUCTION OR DEMOLITION UPON COMPLETION OF WORK.

SEE SHEET E-101 FOR GENERAL ELECTRICAL NOTES

BREAKER MODIFICATIONS:
G – GFCI PERSONNEL PROTECTION (5MA)
HID – HID & SWD RATED
L – HANDLE LOCK
H – HACR RATED
S – SWITCH DUTY RATED
SHT – SHUNT TRIP

UTILITIES CALC

	CATEGORY	CONN. LOAD KVA	AMPS	DEMAND FACTOR	DEMAND LOAD KVA	AMPS
L	LIGHTING	8.78	11	1.25	10.97	13
R	RECEPTACLE:	6.60	8	1	6.60	8
M	MOTORS:	315.95	380	1	315.95	380
K	KITCHEN EQUIPMENT:	0.00	0	0.65	0.00	0
A	AIR CONDITION:	20.02	24	1	20.02	24
H	HEAT (ELECTRIC):	6.24	8	1	0.00	0
O	OTHER LOAD:	36.95	44	1	36.95	44
	SUB TOTAL	394.53	475		390.48	470
	SPARE			0%	0.00	0
	CONTINUOUS:	8.78	11	0.25		3
	LARGEST MOTOR:	1.50	2	0.25		0
	TOTAL:	394.53	475	0.99	390.48	470

LIGHTING CONTACTOR SCHEDULE

RELAY	DESCTIPTION	CIRCUIT	NOTES
1	VACUMM BOOM LIGHTING	CW-B:17	1,2
2	VACUMM BOOM LIGHTING	CW-B:2	1,2
3	EXTERIOR LIGHTING	CW:11	1,2
4	TENANT SIGNAGE	CW:20	1,2
5	TENANT SIGNAGE	CW:24	1,2
6	SPACE		
7	SPACE		

CONTROL NOTES
1. RELAY SHALL BE CONTROLLED BY PHOTOCELL WITH ASTRONOMICAL TIMECLOCK OVERRIDE. COORDINATE CONTROL OF LUMINAIRES WITH OWNER.
2. MOUNT CONTACTORS IN PROPER NEMA ENCLOSURE FOR ENVIROMENT.

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STATE OF NEW YORK
MICHAEL OLATUNDE ODUSELU
LICENSED
PROFESSIONAL ENGINEER
108319
2/10/2023
DATE

PREPARED FOR:
SITE
Hutton
REAL ESTATE DEVELOPMENT CONSTRUCTION

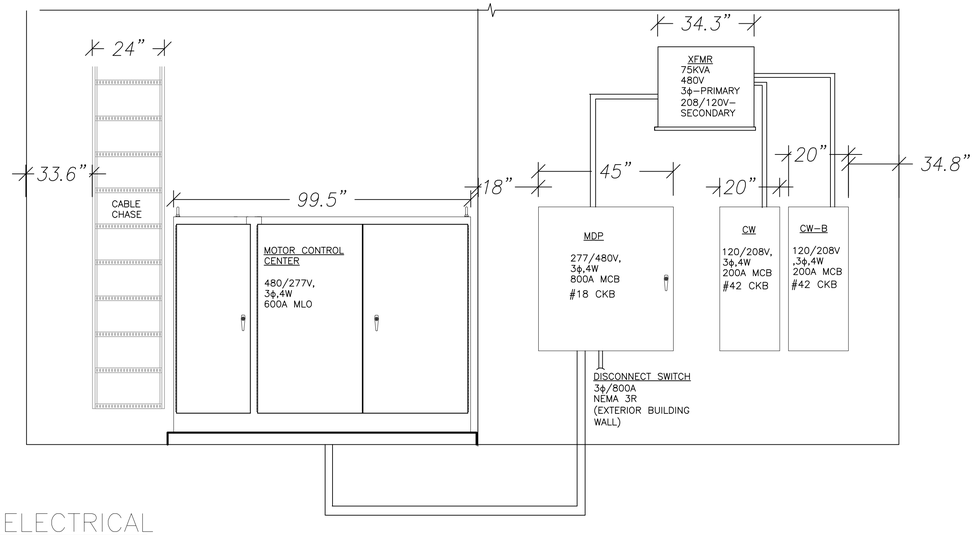
DRAWN BY	REVIEWED BY	PROJ. MGR.	DATE ISSUED
SSJ	MTO		02/10/23

HAMBURG, NY

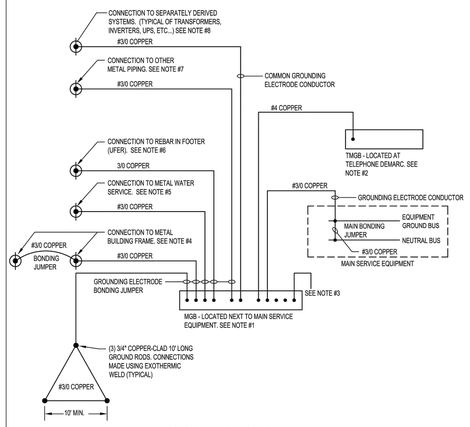
TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION: 8" CMU BEARING WALLS; WOOD TRUSS ROOF FRAMING; E.F.I.S ON METAL STUDS @ DECORATIVE WALLS & ON WALL; 124' NORTHERN PROTOTYPE W/120' CONVEYOR
FIN. AT ENTRANCE
SITE ID: 20086D
SITE ADDRESS: 5383 SOUTHWESTERN BOULEVARD

SHEET NO. E–201
ELECTRICAL SCHEDULES

REV	DATE	DESCRIPTION	BY



2 / E–202 ELEVATION@ELECTRICAL EQUIPMENT
SCALE: 1/2"=1'–0"



GROUNDING DETAIL
N.T.S.

GROUNDING DETAIL NOTES:

1. MGB (MAIN GROUND BAR) SHALL BE ERICO #EGBA14412- - (INCLUDES MOUNTING BRACKET AND INSULATORS; HOLE PATTERN AS REQUIRED FOR INSTALLATION, INCLUDING SPARE HOLES FOR FUTURE USE.) OR EQUAL BY HARGER. USE COMPRESSION CONNECTORS (LISTED FOR GROUNDING) TO CONNECT COPPER WIRE TO MGB.
2. TMGB (TELECOMMUNICATION MAIN GROUND BAR) SHALL BE ERICO #TMGBA12L15PT (INCLUDES MOUNTING BRACKET AND INSULATORS) OR EQUAL BY HARGER. USE COMPRESSION CONNECTORS (LISTED FOR GROUNDING) TO CONNECT COPPER WIRE TO TMGB.
3. GROUNDING CONDUCTORS TO ADDITIONAL EQUIPMENT AS REQUIRED BY NEC 250 AND SPECIFICATIONS.
4. METAL BUILDING FRAME MUST BE USED AS A GROUNDING ELECTRODE WHERE IT IS EFFECTIVELY GROUNDED PER NEC SECTION 250.52. PROVIDE #3/0 BONDING JUMPERS AS REQUIRED TO PROVIDE CONTINUOUS CONDUCTIVITY WHERE BUILDING FRAME IS SEPARATED INTO ELECTRICALLY ISOLATED SECTIONS AS MAY OCCUR FROM EXPANSION JOINTS, BUILDING ADDITIONS, BUILDING ELEVATION CHANGES, AND THE LIKE.
5. WHERE A WATER METER, FILTERING EQUIPMENT, OR NON-METAL PIPING IS IN THIS METAL WATER PIPING SYSTEM, IT MUST BE BONDED AROUND TO MAINTAIN CONTINUITY EVEN IF THE WATER METER OR FILTER IS REMOVED PER NEC SECTION 250.52.
6. THE REBAR MUST NOT BE LESS THAN 20 FEET IN LENGTH AND 1/2" IN DIAMETER OR 20 FEET OR MORE OF BARE COPPER CONDUCTOR NOT SMALLER THAN NO. 4 IN THE BOTTOM OF THE FOOTER PER NEC SECTION 250.52.
7. IF INSTALLED IN OR ATTACHED TO A BUILDING OR STRUCTURE, METAL PIPING SYSTEM(S), INCLUDING GAS PIPING, THAT IS LIKELY TO BECOME ENERGIZED SHALL BE BONDED PER NEC 250.104 (B). THE BONDING CONDUCTOR(S) OR JUMPER(S) SHALL BE SIZED IN ACCORDANCE WITH TABLE 250.102(C)(1) OR 250.122, AND EQUIPMENT GROUNDING CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TABLE 250.102(C)(1) OR 250.122 USING THE RATING OF THE CIRCUIT THAT IS LIKELY TO ENERGIZE THE PIPING SYSTEM(S). THE POINTS OF ATTACHMENT OF THE BONDING JUMPER(S) SHALL BE ACCESSIBLE
8. THE METAL FRAME OF THE BUILDING SHALL BE USED AS A COMMON GROUNDING ELECTRODE CONDUCTOR. IF BUILDING DOES NOT HAVE A METAL FRAME, A #3/0 COMMON GROUNDING ELECTRODE CONDUCTOR SHALL BE RUN FROM THE MAIN GROUND BAR FOR ALL SEPARATELY DERIVED SYSTEMS. MULTIPLE SEPARATELY DERIVED SYSTEMS MAY BE CONNECTED TO THE GROUNDING ELECTRODE SYSTEM BY INDIVIDUAL CONDUCTORS OR A COMMON CONDUCTOR WITH TAPS. THE GROUNDING ELECTRODE TAP CONDUCTOR FOR EACH SYSTEM SHALL BE CONNECTED TO THE COMMON GROUNDING ELECTRODE CONDUCTOR WITH THE CONNECTION IN AN ACCESSIBLE LOCATION.

GROUNDING DETAIL GENERAL NOTES:

1. ALL GROUNDING WORK AND MATERIALS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH REQUIREMENTS IN NEC 250.
2. ALL GROUNDING CONDUCTORS SHALL BE COPPER. PROVIDE INSULATED CONDUCTORS FOR INTERIOR INSTALLATIONS AND BARE COPPER FOR EXTERIOR INSTALLATIONS.
3. ALL UNDERGROUND CONNECTIONS TO ELECTRODES AND CONDUCTORS SHALL BE MADE BY EXOTHERMIC WELDING.
4. CONDUCTOR CONNECTIONS TO MAIN GROUND BAR SHALL BE MADE WITH COMPRESSION CONNECTORS LISTED FOR GROUNDING.
5. GROUNDING ELECTRODE AND BONDING JUMPERS SHALL BE INSTALLED SO THAT THEY ARE NOT ANY LONGER THAN NECESSARY AND ANY UNNECESSARY BENDS AND LOOPS ARE AVOIDED.
6. REFERENCE ONE-LINE DIAGRAM FOR CONDUCTOR SIZE OF THE SUPPLY SIDE BONDING JUMPER AND GROUNDING ELECTRODE TAP CONDUCTOR SERVING SEPARATELY DERIVED SYSTEM(S).
7. REFERENCE ONE-LINE DIAGRAM FOR CONDUCTOR SIZE OF THE EQUIPMENT GROUNDING CONDUCTOR SERVING ELECTRICAL DISTRIBUTION EQUIPMENT.
8. INSTALL SLEEVES, SLEEVE SEALS, FIRE STOPPING, RACEWAYS TO PROTECT AGAINST PHYSICAL DAMAGE AND ENVIRONMENTAL CONDITIONS WHERE REQUIRED. FURNISH AND INSTALL BONDING BUSHINGS WHERE FERROUS METALLIC RACEWAYS ARE UTILIZED.

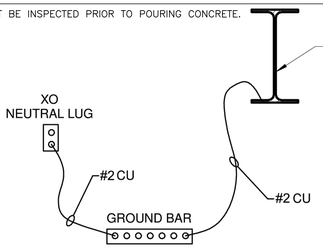
GENERAL NOTES

1. COORDINATE ALL ELECTRICAL EQUIPMENT REQUIREMENT WITH MANUFACTURE'S EQUIPMENT DRAWINGS AND GC PRIOR TO ROUGH–IN. VERIFY ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURE INSTRUCTIONS.
2. CLEARLY LABEL MAIN ELECTRICAL SERVICE DISCONNECT PER NEC 2017, 110.22(C).
3. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL UTILITY METER AND NEW ELECTRICAL SERVICE ENTRANCE. COORDINATE EXACT REQUIREMENTS WITH POWER UTILITY PRIOR TO COMMENCEMENT OF WORK.
4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A DURABLE SIGN OR PLAQUE STATING THE AVAILABLE FAULT CURRENT AT THE MAIN AND THE DATE OF THE CALCULATION PER NEC 2017, 110.24(A).
5. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ARC FLASH WARNING LABELS ON ALL EQUIPMENT AS REQUIRED PER NEC 2017, 110.16.
6. THE ELECTRICAL CONTRACTOR TO PROVIDE ALL CIRCUITS 120V AND ABOVE INCLUDING CONDUITS. EC TO PROVIDE CONDUIT FOR ALL LOW VOLTAGE CIRCUITS. EC TO WORK WITH OWNER PROVIDED CONSULTANT TO COMPLETE WIRING OF THE MCC.
7. EC SHALL REVIEW POWER COMPANY REQUIREMENT FOR CT METERED SERVICE/ DISCONNECT SWITCH SPECIFICATION PRIOR TO ROUGH–IN.
8. THE SERVICE DISCONNECTING MEANS SHALL BE INSTALLED PER NEC 230.70 AND NEC 230.6.
9. THE EC SHALL VERIFY THE AVAILABLE FAULT CURRENT WITH THE UTILITY COMPANY PRIOR TO BIDDING AND PROVIDE EQUIPMENT RATED ACCORDINGLY.
10. PROPER CLEARANCE MUST BE MAINTAINED ABOUT ELECTRICAL EQUIPMENT PER NEC 110.26. FIELD VERIFY EXACT MOUNTING SPACE AVAILABLE IN ELECTRICAL ROOM/AREA PRIOR TO INSTALLATION OF ELECTRICAL EQUIPMENT.
11. ALL PANELBOARDS SUPPLIED BY A FEEDER(S) SHALL BE PERMANENTLY MARKED TO INDICATED EACH DEVICE OR EQUIPMENT WHERE THE POWER ORIGINATES. THE LABEL SHALL BE PERMANENTLY AFFIXED, OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED, AND NOT HANDWRITTEN PER NEC 408.4(B)

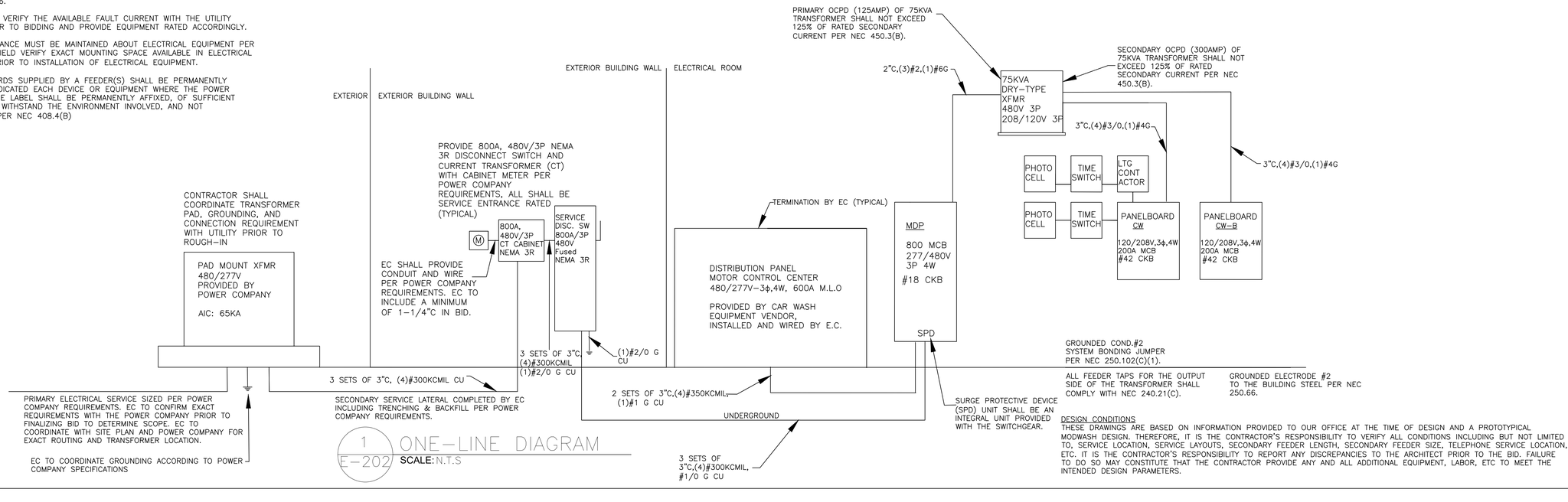
GROUNDING NOTES

1. ELECTRICAL COMPONENTS, EQUIPMENT AND SYSTEMS SHALL BE DESIGNED AND CONSTRUCTED PER NFPA 70(2017 NEC).
2. STEEL REINFORCING RODS NOT LESS THAN ½" IN DIAMETER OR 20' SHALL BE GROUNDED INTO BUILDING ELECTRODE SYSTEM PER NEC 250.52 (A)(3).
3. THE ELECTRODE CONDUCTOR SIZE SHALL COMPLY WITH NEC 250.66(B). THE GROUNDING AND BONDING METHODS/MATERIALS SHALL BE IN COMPLIANCE WITH NEC 250.70.
4. THE SERVICE DISCONNECTING MEANS SHALL BE INSTALLED PER NEC 230.70 AND NEC 230.6
5. EC SHALL SIZE EQUIPMENT GROUNDING CONDUCTORS PER NEC 2017, 250.122.
6. EC SHALL PROVIDE INTERSYSTEM BONDING TERMINAL FOR COMMUNICATIONS SYSTEM TO THE GROUNDING ELECTRODE SYSTEM PER NEC 250.94.

***BONDING OF REBAR MUST BE INSPECTED PRIOR TO POURING CONCRETE.



Transformer Grounding Detail
N.T.S.



1 / E–202 ONE–LINE DIAGRAM
SCALE: N.T.S

DESIGN CONDITIONS
THESE DRAWINGS ARE BASED ON INFORMATION PROVIDED TO OUR OFFICE AT THE TIME OF DESIGN AND A PROTOTYPICAL MODWASH DESIGN. THEREFORE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL CONDITIONS INCLUDING BUT NOT LIMITED TO, SERVICE LOCATION, SERVICE LAYOUTS, SECONDARY FEEDER LENGTH, SECONDARY FEEDER SIZE, TELEPHONE SERVICE LOCATION, ETC. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO THE BID. FAILURE TO DO SO MAY CONSTITUTE THAT THE CONTRACTOR PROVIDE ANY AND ALL ADDITIONAL EQUIPMENT, LABOR, ETC TO MEET THE INTENDED DESIGN PARAMETERS.

BY	DESCRIPTION	DATE	REV

STATE OF NEW YORK · MICHAEL OLATUNDE ODUSELU · LICENSED PROFESSIONAL ENGINEER · 108319

2/10/2023
DATE

PREPARED BY:
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PHONE: (678) 595-7872

PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

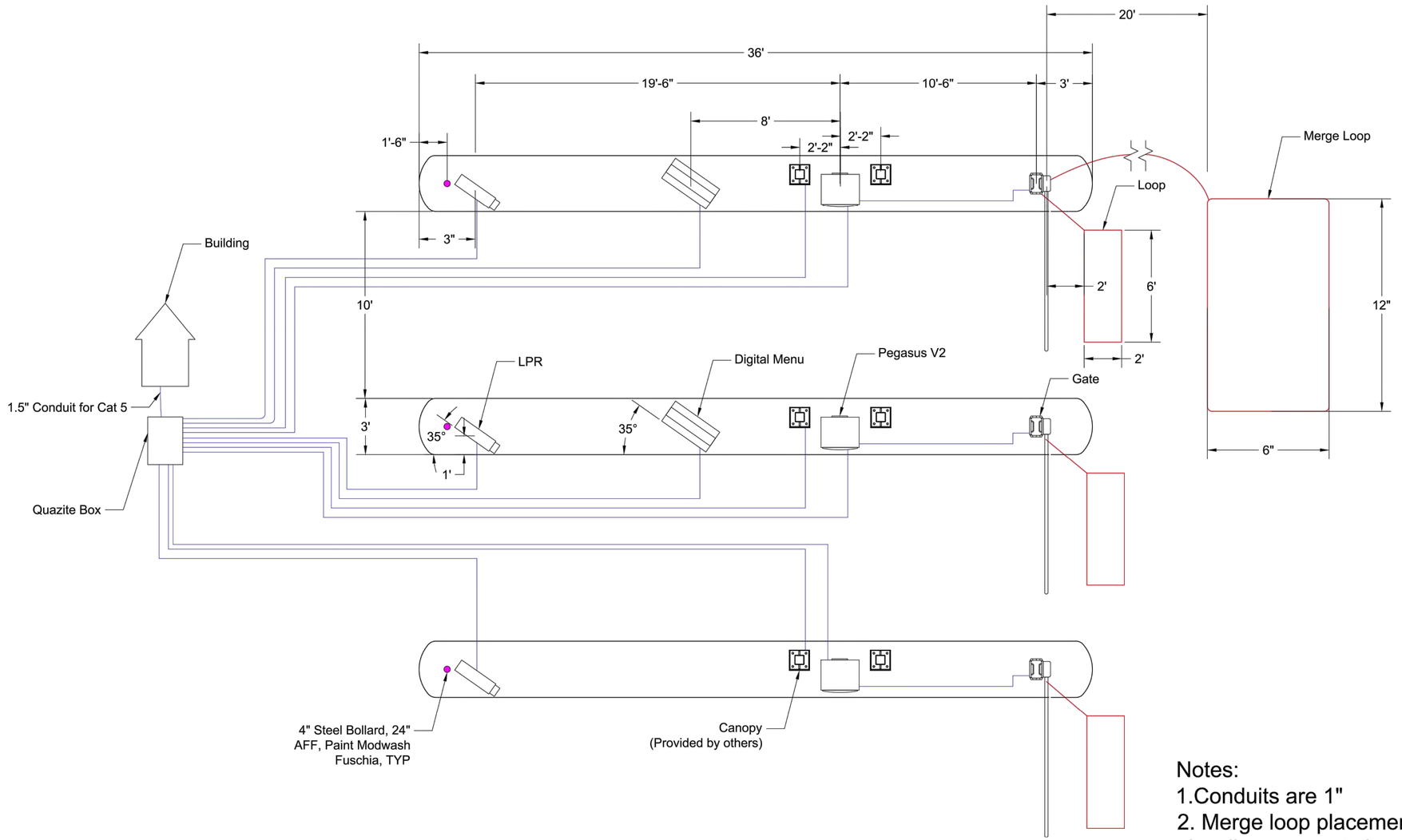
DRAWN BY	REVIEWED BY	PROJ. MGR.	DATE ISSUED
SSJ	MTO		02/10/23

TITLE: MODWASH EXPRESS CARWASH

DESCRIPTION	
8" CMU BEARING WALLS	
WOOD TRUSS ROOF FRAMING	
EXTERIOR WALL METAL STUDS @ DECORATIVE WALLS & FIN WALL	
124' NORTHERN PROTOTYPE W/120' CONVEYOR	
FIN AT ENTRANCE	
SITE ID	SITE ADDRESS
20080RD	5363 SOUTHWESTERN BOULEVARD

HAMBURG, NY

SHEET NO. E–202
ELECTRICAL DETAILS



Notes:
1.Conduits are 1"
2. Merge loop placement is not visually representative of final result
3. Digital Menu and Pegasus are homerun back to electrical panel

Rev	Date
A	07/29/22
B	08/03/22
C	08/09/22

Sheet	Scale
1 of 5	3/8"=1"

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MICROLOGIC
28 Eastmans Rd.
Parsippany-Troy Hills, NJ 07054
P: (973)-598-0808
https://micrologic.net

General Setup

Modwash

Conduit Layout

BY	DESCRIPTION	DATE	REV

DRAWING FOR REFERENCE ONLY
2/10/2023
DATE

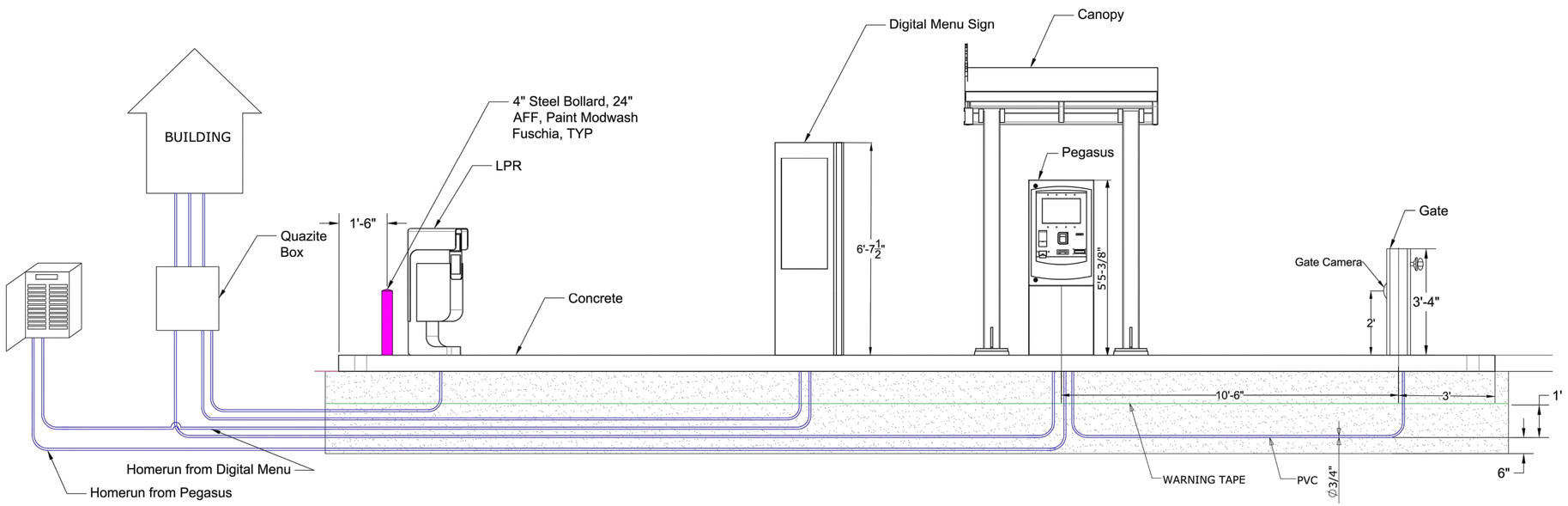
PREPARED BY:
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PREPARED FOR:
Hutton SITE REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY	REVIEWED BY	PROJ. MGR.	DATE ISSUED
SSJ	MTO		02/10/23

TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION: 8" CMU BEARING WALLS
WOOD TRUSS ROOF FRAMING
E.F.I.S ON METAL STUDS @ DECORATIVE WALLS
& PAINT WALL
124' NORTHERN PROTOTYPE W/120' CONVEYOR
FIN AT ENTRANCE
SITE ID: 20089D
SITE ADDRESS: 5363 SOUTHWESTERN BOULEVARD
HAMBURG, NY

SHEET NO. E-501
REFERENCE DETAILS



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https://micrologic.net

General Setup

Modwash

Underground Conduit Layout

Rev	Date
A	07/29/22
B	08/03/22
C	08/09/22

Sheet	Scale
2 of 5	1:20

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BY	DESCRIPTION	DATE	REV

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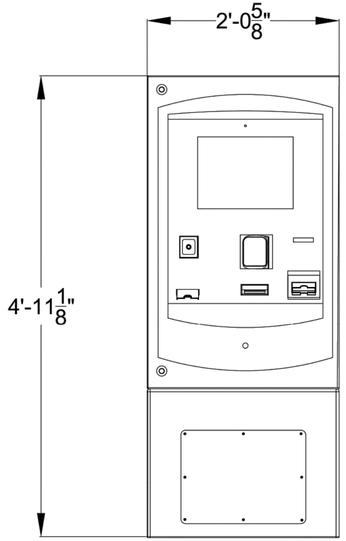
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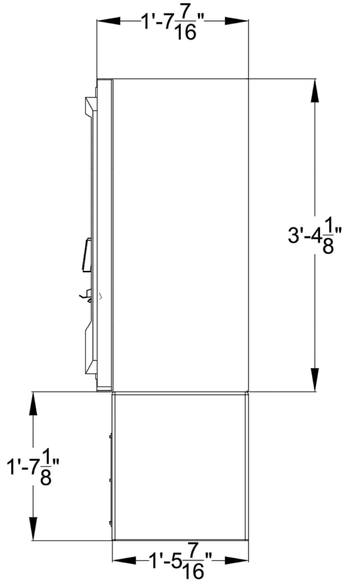
DRAWN BY: SSJ
REVIEWED BY: MTO
PROJ. MGR.:
DATE ISSUED: 02/10/23

TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION: 8" CMU BEARING WALLS
WOOD TRUSS ROOF FRAMING
E.F.I.S ON METAL STUDS @ DECORATIVE WALLS
& PAINT FINISH
124' NORTHERN PROTOTYPE W/120' CONVEYOR
FIN. AT ENTRANCE
SITE ID: 20089D
SITE ADDRESS: 5383 SOUTHWESTERN BOULEVARD
HAMBURG, NY

SHEET NO.: E-502
REFERENCE DETAILS

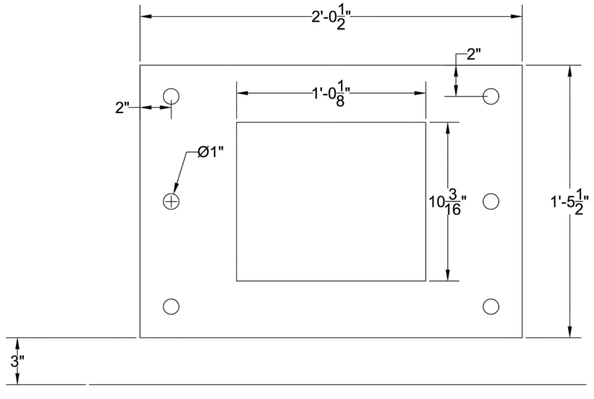


Front View

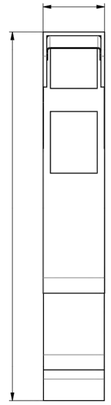


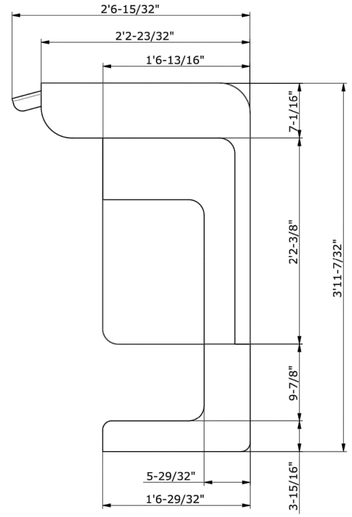
Side View

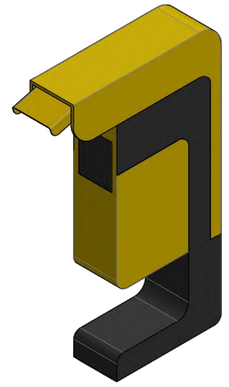
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3	Pegasus V2 Conduit Hole Details	Scale: 3"=1'

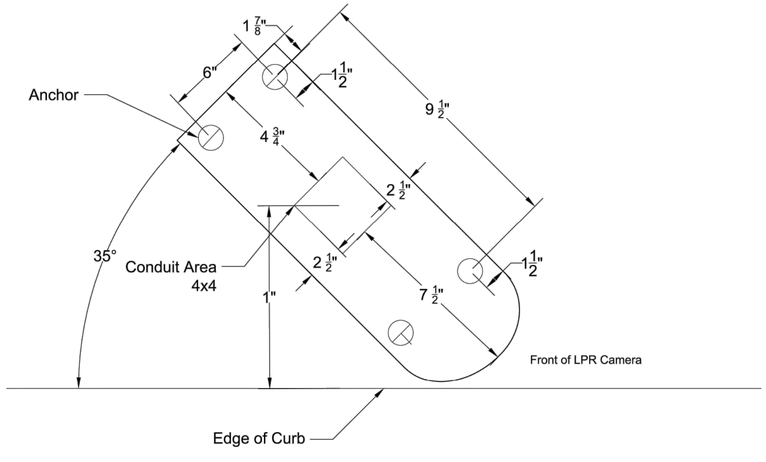






ISOMETRIC VIEW

2	LPR Details	Scale: 1-1/2"=1'



4	LPR Conduit Hole Details	Scale: 3"=1'

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P: (973)-598-0808
https://micrologic.net

General Setup

Modwash

Equipment Details

Rev	Date
A	07/29/22
B	08/02/22
C	08/09/22

Sheet	Scale
3 of 5	Varies

BY	DESCRIPTION	DATE	REV

DRAWING FOR REFERENCE ONLY
2/10/2023
DATE

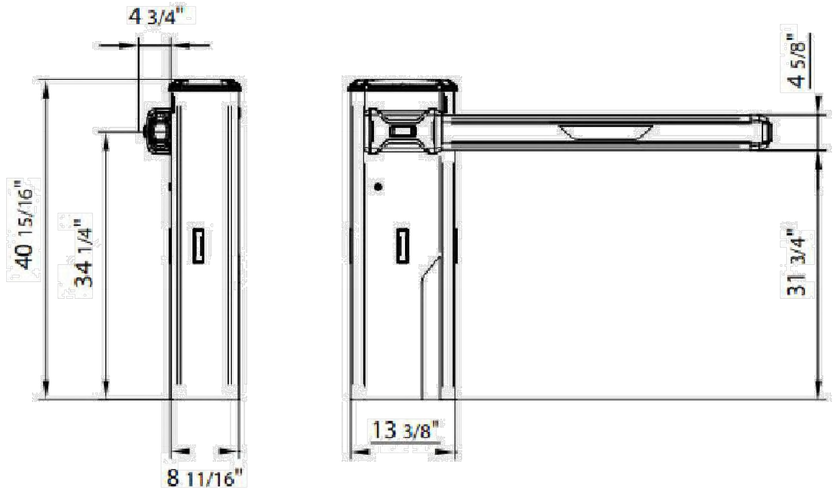
PREPARED BY:
MICHAEL ODUSELU, P.E.
809 TRAMORE ROAD
ACWORTH, GEORGIA 30102
PHONE: (678) 595-7872

PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

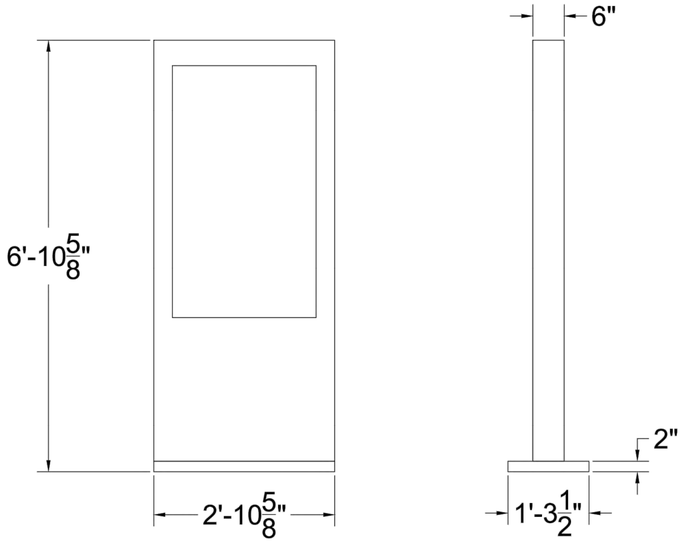
DRAWN BY	REVIEWED BY	PROJ. MGR.	DATE ISSUED
SSI	MTO		02/10/23

TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION: 8" CMU BEARING WALLS; WOOD TRUSS ROOF FRAMING; E.F.I.S ON METAL STUDS @ DECORATIVE WALLS & FIN WALL; 124" NORTHERN PROTOTYPE W/120' CONVEYOR; FIN AT ENTRANCE
SITE ID: 200890
SITE ADDRESS: 5383 SOUTHWESTERN BOULEVARD
HAMBURG, NY

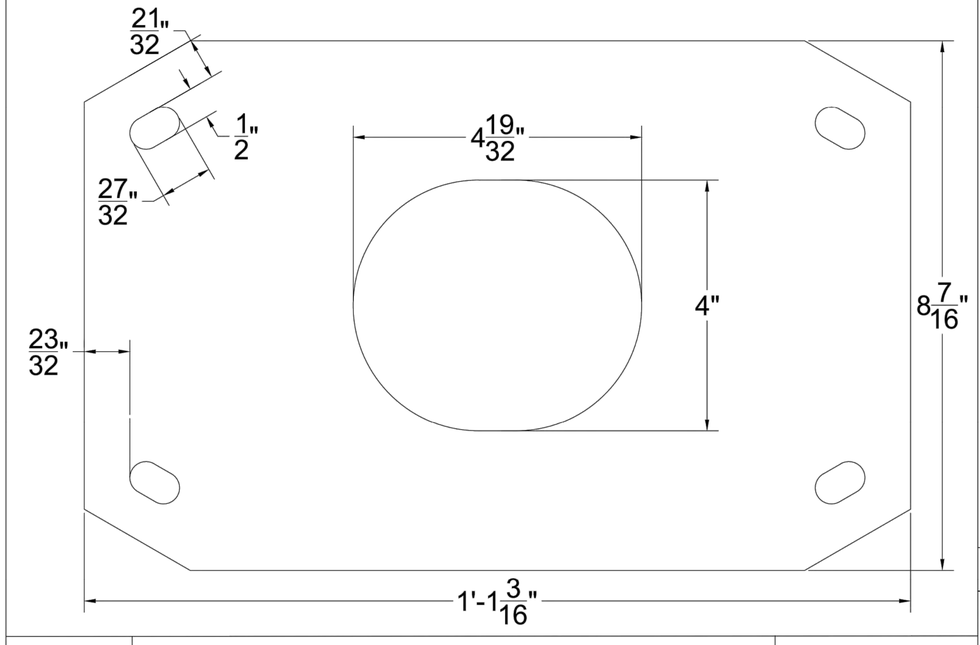
SHEET NO. E-503
REFERENCE DETAILS



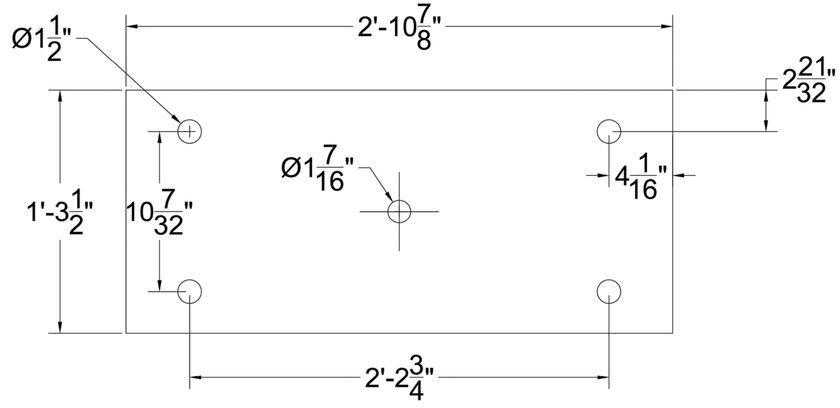
1 | Gate Details | Scale: 1-1/2"=1'



2 | Digital Menu Details | Scale: 1"=1'



3 | Gate Conduit Hole Details | Scale: 1"=1'



4 | Digital Menu Base Hole Details | Scale: 3"=1'

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MICROLOGIC
28 Eastmans Rd.
Parsippany-Troy Hills, NJ 07054
P: (973)-598-0808
https://micrologic.net

General Setup

Modwash

Equipment Details

Rev	Date
A	07/29/22
B	08/03/22
C	08/09/22

Sheet	Scale
4 of 5	Varies

BY	DESCRIPTION	DATE	REV

DRAWING FOR REFERENCE ONLY
2/10/2023
DATE

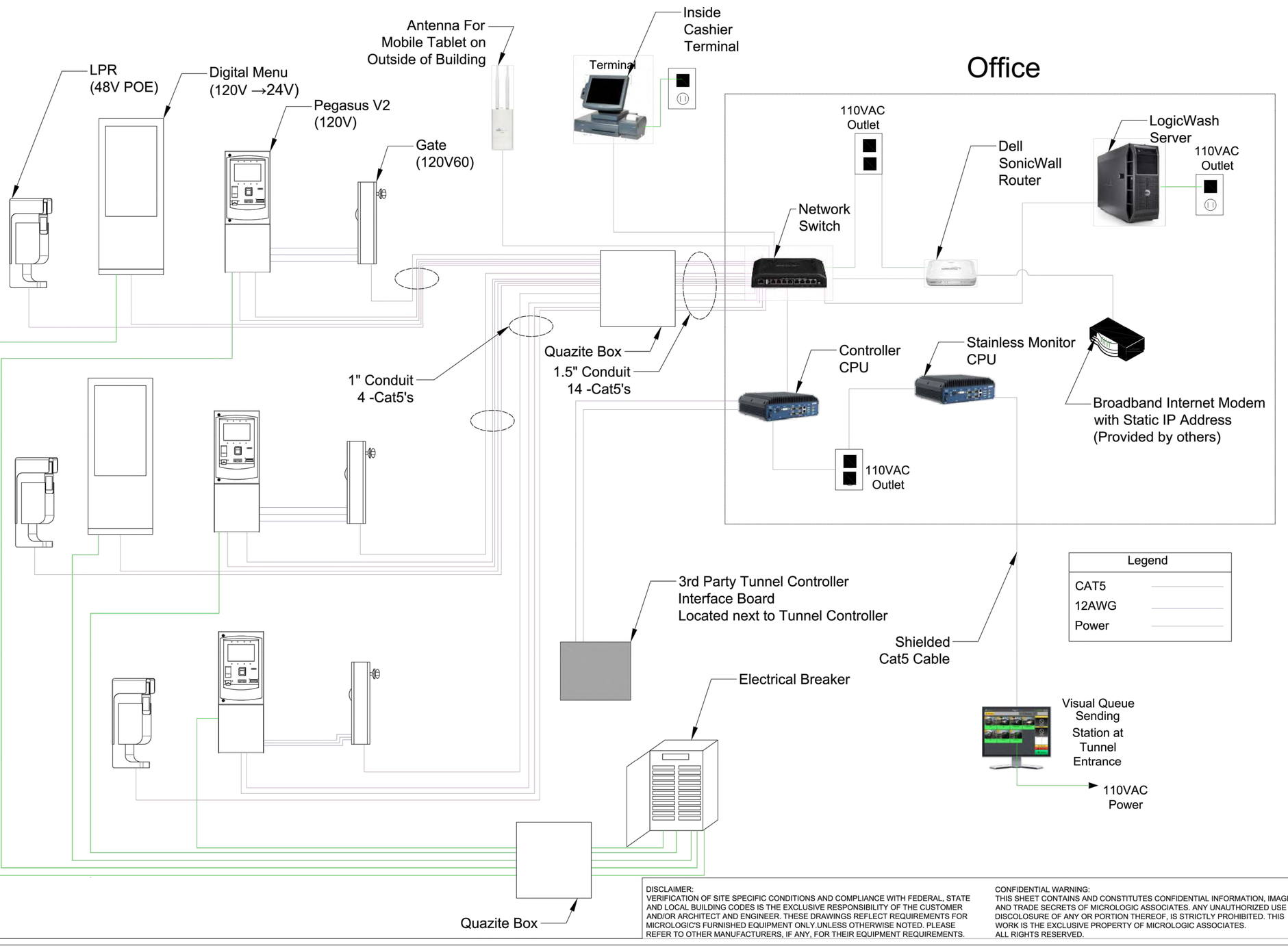
PREPARED BY:
MICHAEL ODUSELU, P.E.
809 TRAMORE ROAD
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PHONE: (678) 595-7872

PREPARED FOR:
Hutton SITE
REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY: SSJ
REVIEWED BY: MTO
PROJ. MGR.
DATE ISSUED: 02/10/23
HAMBURG, NY

TITLE: MODWASH EXPRESS CARWASH
DESCRIPTION:
8" CMU BEARING WALLS
WOOD TRUSS ROOF FRAMING
E.F.I.S ON METAL STUDS @ DECORATIVE WALLS & FIN WALL
124' NORTHERN PROTOTYPE W/120' CONVEYOR
FIN AT ENTRANCE
SITE ADDRESS: 5363 SOUTHWESTERN BOULEVARD
SITE ID: 20089D

SHEET NO. E-504
REFERENCE DETAILS



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Rev	Date
A	07/29/22
B	08/03/22
C	08/09/22

Sheet	Scale
5 of 5	N/A

MICROLOGIC
28 Eastmans Rd,
Parsippany-Troy Hills, NJ 07054
P: (973)-598-0808
https://micrologic.net

General Setup

Modwash

3 Lane CAT5 & Power to 3rd Party Controller

BY	DESCRIPTION	DATE	REV

DRAWING FOR REFERENCE ONLY
2/10/2023
DATE

PREPARED BY:
MICHAEL ODUSELU, P.E.
809 TRAMORE ROAD
ACWORTH, GEORGIA 30102
PHONE: (678) 595-7872

PREPARED FOR:
SITE Hutton REAL ESTATE DEVELOPMENT CONSTRUCTION

DRAWN BY: SSJ
REVIEWED BY: MTO
PROJ. MGR.
DATE ISSUED: 02/10/23
HAMBURG, NY

TITLE: MODWASH EXPRESS CARWASH
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WOOD TRUSS ROOF FRAMING
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FIN AT ENTRANCE
SITE ADDRESS: 5363 SOUTHWESTERN BOULEVARD
SITE ID: 20089D

SHEET NO. E-505
REFERENCE DETAILS

TOWN OF HAMBURG
ERIE COUNTY, NEW YORK

ZONING MAP

N
W E
S

0 500 1,000 2,000
Feet

LEGEND

Parcel Boundary (2018)

Town of Hamburg Zoning

C1	M2	R1
C2	M3	R2
C3	P: Pre-Permitted Designation	R3
WC	NC	R4
FG	PR	RA
HC	PRD	RE
M1	PUD	

wendel
WD Project: 300818CODE
Map Created: February 21, 2019

**The information on this document is based on data gathered from the following data sources and should not be used for design or construction. -Data Sources: NYS GIS Clearinghouse, Erie County, Town of Hamburg

MODWASH PROJECT SITE (C-2 ZONING)

CITY OF LACKAWANNA

VILLAGE OF BLASDELL

VILLAGE OF HAMBURG

TOWN OF ORCHARD PARK

TOWN OF EVANS

TOWN OF EDEN

TOWN OF BOSTON



EXHIBIT:

DATE PREPARED:
12/05/2022

100' 0' 100' 200'
GRAPHIC SCALE IN FEET
1" = 100'

NOT APPROVED FOR CONSTRUCTION

ISSUE	DATE	BY	DESCRIPTION
1	12/05/2022	NP	FOR MUNICIPAL SUBMISSION

STONEFIELD engineering & design

Rutherford, NJ · New York, NY · Boston, MA
Princeton, NJ · Tampa, FL · Detroit, MI
www.stonefieldeng.com

Headquarters: 92 Park Avenue, Rutherford, NJ 07070
Phone 201.340.4468 · Fax 201.340.4472

PRELIMINARY & FINAL MAJOR SITE PLAN

HUTTON ST. 21, LLC
PROPOSED CAR WASH

SECTION 182.05 BLOCK 1, LOT 9.2
5363 SOUTHWESTERN BOULEVARD
TOWN OF HAMBURG
ERIE COUNTY, NEW YORK

CHARLES D. OLIVO, P.E.
NEW YORK LICENSE No. 87356
LICENSED PROFESSIONAL ENGINEER

STONEFIELD engineering & design

SCALE: 1" = 100' | PROJECT ID: RUT-220250

TITLE:
AERIAL EXHIBIT

DRAWING:
1 OF 1

Z:\RUT\PROJ\RUT2202\RUT-220250-HUTTON GROUP - 5363 SOUTHWESTERN BOULEVARD, HAMBURG, NY\CAD\EXHIBITS\2022-12-05 _ AERIAL EXHIBIT_HAMBURG, NY.DWG