MILLER PARK POOL RENOVATIONS

100% DESIGN DEVELOPMENT SET

06/12/2026

LYNCHBURG, VA

Sheet List Table

Sheet Number	Sheet Title
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C0.01	GENERAL NOTES
C0.02	GENERAL DETAILS
C0.03	GENERAL DETAILS
C1.00	TOPOGRAPHIC SURVEY
C2.00	SITE DEMOLITION AND TREE PRESERVATION PLAN
C3.00	SITE EROSION AND SEDIMENT CONTROL GENERAL NOTES
C3.01	EROSION AND SEDIMENT CONTROL DETAILS
C3.02	EROSION AND SEDIMENT CONTROL PHASE 1
C3.03	EROSION AND SEDIMENT CONTROL PHASE 2
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C5.00	GRADING AND DRAINAGE PLAN
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C6.10	SANITARY PROFILES
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L1.20	SITE NOTES AND DETAILS
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L1.30	SITE CUTSHEETS
L1.31	SITE CUTSHEETS
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L2.10	FURNITURE PLAN
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L3.10	PLANTING NOTES AND DETAILS
L3.11	PLANTING SCHEDULES
L4.00	PHOTOMETRIC PLAN
L4.10	LIGHTING CUT SHEETS
L4.11	LIGHTING CUT SHEETS
GS1.1	GENERAL NOTES & ABBREVIATIONS
GS1.2	UL L556
GS1.3	UL L556
LS1.1	CODE REVIEW
LS1.2	LIFE SAFETY PLAN
AD1.1	POOL HOUSE BUILDING - DEMOLITION PLAN
AD1.2	PUMPHOUSE - DEMOLITION PLAN
A1.1	OVERALL PLAN
A2.1	LIFEGUARD BUILDING - FLOOR PLAN
A2.2	POOL HOUSE BUILDING - FLOOR PLAN
A2.3	PUMPHOUSE - FLOOR PLAN
A3.1	LIFEGUARD BUILDING - ROOF PLAN
A3.2	LIFEGUARD BUILDING - ROOF DETAILS
A4.1	LIFEGUARD BUILDING - ELEVATIONS
A4.2	POOL HOUSE - ELEVATIONS
A6.1	LIFEGUARD BUILDING - WALL SECTIONS
A8.1	LIFEGUARD BUILDING - INTERIOR ELEVATIONS
A9.1	LIFEGUARD BUILDING - DOORS & WINDOWS
A10.1	LIFEGUARD BUILDING - REFLECTED CEILING PLAN
A10.2	POOL HOUSE BUILDING - REFLECTED CEILING PLAN
A10.3	PUMP HOUSE - REFLECTED CEILING PLAN
P001	PLUMBING GENERAL NOTES & LEGEND
P002	PLUMBING SPECIFICATIONS
P100	PLUMBING SITE PLAN
PD101	ADD ALT -DEMOLITION FLOOR PLAN - POOLHOUSE - PLUMBING
PD102	DEMOLITION FLOOR PLAN - MAINTENANCE BUILDING - PLUMBING
P101	ADD ALT - NEW WORK FLOOR PLAN - POOLHOUSE - PLUMBING
P102	NEW WORK FLOOR PLAN - MAINTENANCE BUILDING - PLUMBING
P103	NEW WORK FLOOR PLANS - LIFEGUARD BUILDING - PLUMBING
P501	PLUMBING DETAILS
P601	PLUMBING SCHEDULES
P901	PLUMBING RISER DIAGRAMS
M001	MECHANICAL GENERAL NOTES, SCHEDULES, & LEGEND
M002	MECHANICAL SPECIFICATIONS
MD102	DEMOLITION FLOOR PLAN - MAINTENANCE BUILDING - MECHANICAL
MD103	DEMOLITION ROOF PLAN - MAINTENANCE BUILDING - MECHANICAL
M102	NEW WORK FLOOR PLAN - MAINTENANCE BUILDING - MECHANICAL
M103	NEW WORK FLOOR PLAN - LIFEGUARD BUILDING - MECHANICAL
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ED101	ADD ALT - DEMOLITION FLOOR PLAN - POOLHOUSE - ELECTRICAL
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EL101	ADD ALT - NEW WORK FLOOR PLAN - POOLHOUSE - LIGHTING
EL102	NEW WORK FLOOR PLAN - MAINTENANCE BUILDING - LIGHTING
EL103	NEW WORK FLOOR PLAN - LIFEGUARD BUILDING - LIGHTING
EP102	NEW WORK FLOOR PLAN - MAINTENANCE BUILDING - POWER
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E601	ELECTRICAL RISER DIAGRAM
E602	ELECTRICAL PANEL SCHEDULES
E603	ELECTRICAL PANEL SCHEDULES

SHEETS: 1-84

SHEETS *"FIG 1, FIG 2 & FIG 3"* REMOVED FROM SHEET INDEX

Sheet List Table (Cont.)

Sheet Number	Sheet Title
SP-0	SITE PLAN
SP-1	MULTI-PURPOSE POOL LAYOUT PLAN
SP-2	MULTI-PURPOSE POOL PIPING PLAN
SP-3	MULTI-PURPOSE POOL UNDERWATER LIGHT PLAN
SP-4	MULTI-PURPOSE POOL SECTIONS
SP-5	POOL DETAILS
SP-6	POOL DETAILS
SP-7	POOL DETAILS
SP-8	POOL DETAILS
SP-9	POOL DETAILS
SP-10	POOL DETAILS
SP-11	POOL DETAILS
SP-12	ACTIVITY STRUCTURE DETAILS
SP-13	POOL DETAILS
SP-14	POOL DETAILS
SP-15	POOL DETAILS
SL-1	SLIDE DETAILS
SL-2	SLIDE DETAILS
MR-1	MECHANICAL ROOM LAYOUT PLAN
MR-2	MECHANICAL DETAILS
MR-3	MECHANICAL DETAILS
MR-4	MECHANICAL DETAILS
MR-5	MECHANICAL DETAILS
MR-6	MECHANICAL DETAILS
MR-7	MECHANICAL DETAILS
MR-8	MECHANICAL DETAILS
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S2.00	BUILDING FOUNDATION PLAN
S3.00	BUILDING SLAB PLAN
S4.00	BUILDING ROOF PLAN
S5.00	BUILDING STRUCTURAL DETAILS
S5.01	BUILDING STRUCTURAL DETAILS
S5.02	BUILDING STRUCTURAL DETAILS
S5.03	BUILDING STRUCTURAL DETAILS
S6.00	PAVILION FOUNDATION PLAN
S7.00	PERGOLA FOUNDATION PLAN
S7.10	CANOPY FOUNDATION PLAN
S8.00	RAMP AND STAIR FOUNDATION PLAN
S8.10	CLUBHOUSE PATIO RETAINING WALL FOUNDATION PLAN
S8.20	RAMP AND PATIO SLAB PLAN
S8.30	EASTERN END OF PATIO SLAB PLAN
S8.40	WALL CAP AND HANDRAIL PLAN
S8.50	WALL CAP AND HANDRAIL PLAN CONT.
S9.00	RAMP ELEVATIONS
S10.00	RAMP SECTIONS
S11.00	CLUBHOUSE PATIO RETAINING WALL AND STAIR FOUNDATION PLAN
S12.00	CLUBHOUSE PATIO RETAINING WALL AND STAIR FOUNDATION PLAN

SHEETS: 84-132
TOTAL SHEETS: 132

NOTE: CONTACT THE CITY ENVIRONMENTAL REVIEWER, THE CITY CONSTRUCTION COORDINATOR AND MISS UTILITY 48 HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY.

VICINITY MAP

SCALE: 1" = 500'

OWNER/DEVELOPER:

CITY OF LYNCHBURG
1700 MEMORIAL AVE.
LYNCHBURG, VA 24501
CONTACT: WILLIAM "CLAY" SIMMONS, P.E.
EMAIL: CLAY.SIMMONS@LYNCHBURGVA.GOV
TELEPHONE: (434) 455-4443

ENGINEER OF RECORD:

TIMMONS GROUP
109 NORFOLK AVE. SW, SUITE 100
ROANOKE, VA 24011
CONTACT: JOHN BRODIE, P.E.
EMAIL: JOHN.BRODIE@TIMMONS.COM
TELEPHONE: (540) 520-2412

SITE DATA:

TAX MAP PARCEL AND OWNER INFO:	01103001 CITY OF LYNCHBURG
PARCEL ACREAGE: LIMITS OF DISTURBANCE:	29.66 ACRES 1.96 AC
PARCEL LOCATION:	2100 PARK AVENUE LYNCHBURG, VA 24501
PARCEL ZONING: ADJACENT ZONING:	R-3, MEDIUM DENSITY RESIDENTIAL DEVELOPMENT R-3 (NORTH, WEST, & SOUTHWEST), B-3 (SOUTH), B-5 (EAST)
SOURCE OF BOUNDARY AND TOPOGRAPHY:	TIMMONS GROUP 28 IMPERIAL DRIVE STAUNTON, VA 24401 JOSEPH C. MEDLEY (540) 885-0920
BENCHMARKS:	HORIZONTAL DATUM - NAD83 VIRGINIA STATE GRID, NORTH ZONE VERTICAL DATUM - NAVD 88
EXISTING USE: PROPOSED USE:	OUTDOOR RECREATION OUTDOOR RECREATION
PARKING REQUIRED:	1 SPACE PER FOUR PERSONS OF THE RATED CAPACITY
TOTAL EXISTING PARKING: TOTAL PROPOSED PARKING: REQUIRED ADA SPACES: PROVIDED ADA SPACES:	97 SPACES (TOTAL) 97 SPACES (TOTAL) 4 SPACES 4 SPACES
BICYCLE PARKING REQUIRED:	5% OF VEHICULAR PARKING SPACES 5% * 97 VEHICULAR SPACES = 5 BICYCLE SPACES
BICYCLE PARKING PROVIDED:	10 BICYCLE RACKS
APPROXIMATE RIGHT OF WAY WIDTH:	65 FEET (PARK AVENUE) (EXISTING)
UTILITIES:	PUBLIC WATER/ SEWER SERVICE
WETLAND IMPACTS:	NO WETLANDS ARE TO BE IMPACTED WITHIN THE PROPOSED SITE
FLOODPLAIN:	BASED ON FEMA FLOOD INSURANCE RATE MAP (FIRM), MAP NO. 5100930043D. NO IMPACTS TO THE FLOODPLAIN ARE PROPOSED WITH THIS DEVELOPMENT

"I HEREBY CERTIFY THAT, TO THE BEST OF MY ABILITY, THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE LATEST CITY OF LYNCHBURG MANUAL OF SPECIFICATIONS AND STANDARD DETAILS AND CITY CODE."

SIGNATURE:_____ TITLE:_____

PRINTED NAME AND TITLE:_____ DATE:_____

"I/WE HEREBY CERTIFY THAT ALL SITE CONSTRUCTION, DRAINAGE, AND GRADING WILL BE DONE PURSUANT TO THIS PLAN AND THAT THE APPLICABLE STORMWATER MANAGEMENT CONDITIONS AND REQUIREMENTS OF THE CITY OF LYNCHBURG, THE COMMONWEALTH OF VIRGINIA AND THE FEDERAL GOVERNMENT AND ITS AGENCIES ARE HEREBY MADE PART OF THIS PLAN"

SIGNATURE:_____ TITLE:_____

PRINTED NAME:_____ DATE:_____

CITY ENGINEER:_____ DATE:_____

TRC:_____ DATE:_____

E&S:_____ DATE:_____

NOTE: PRIOR TO THE USE OF AN OFFSITE BORROW OR FILL SITE, AN ADDENDUM WILL BE REQUIRED IDENTIFYING THE LOCATION, ADEQUATE STABILIZATION MEASURES WILL NEED TO BE INSTALLED AND AN APPROVED PERMIT FOR ANY OFF-SITE BORROW / FILL / WASTE SITE(S) THAT WILL BE USED IN CONJUNCTION WITH THE PROJECT WILL NE TO BE IDENTIFIED. THE ULTIMATE DESTINATION OF ALL DEBRIS FROM DEMOLITION MUST BE IDENTIFIED AT THE PRE-CONSTRUCTION MEETING.

PROJECT NAME:
MILLER PARK POOL RENOVATIONS

PROJECT LOCATION:
2100 PARK AVENUE LYNCHBURG, VA, 24501

COMMONWEALTH OF VIRGINIA
EDWIN A. ESPINO
No. 2346
06/26/2026
LANDSCAPE ARCHITECT

THIS DRAWING PREPARED AT THE
CHARLOTTESVILLE OFFICE
608 Preston Avenue, Suite 200 | Charlottesville, VA 22903
TEL 434.295.5624 FAX 434.295.8317 www.timmons.com

	DATE	REVISION DESCRIPTION
1	07/01/2026	ADDENDUM 1
2	07/15/2026	ADDENDUM 2

YOUR VISION. OUR PATH.

DATE: 06/26/2026
DRAWN BY: M. RACHNER
DESIGNED BY: M. RACHNER
CHECKED BY: E. ESPINO
SCALE:

TIMMONS GROUP

MILLER PARK POOL
THE CITY OF LYNCHBURG
COVER SHEET

JOB NO. 57972.002
SHEET NO. C0.00

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MILLER PARK POOL RENOVATIONS

100% DESIGN DEVELOPMENT SET

06/12/2026

LYNCHBURG, VA

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SHEETS: 1-84

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SHEETS: 84-131
TOTAL SHEETS: 131

NOTE: CONTACT THE CITY ENVIRONMENTAL REVIEWER, THE CITY CONSTRUCTION COORDINATOR AND MISS UTILITY 48 HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY.

VICINITY MAP

SCALE: 1" = 500'

OWNER/DEVELOPER:

CITY OF LYNCHBURG
1700 MEMORIAL AVE.
LYNCHBURG, VA 24501
CONTACT: WILLIAM "CLAY" SIMMONS, P.E.
EMAIL: CLAY.SIMMONS@LYNCHBURGVA.GOV
TELEPHONE: (434) 455-4443

ENGINEER OF RECORD:

TIMMONS GROUP
109 NORFOLK AVE. SW, SUITE 100
ROANOKE, VA 24011
CONTACT: JOHN BRODIE, P.E.
EMAIL: JOHN.BRODIE@TIMMONS.COM
TELEPHONE: (540) 520-2412

SITE DATA:

TAX MAP PARCEL AND OWNER INFO:	01103001 CITY OF LYNCHBURG
PARCEL ACREAGE: LIMITS OF DISTURBANCE:	29.66 ACRES 1.96 AC
PARCEL LOCATION:	2100 PARK AVENUE LYNCHBURG, VA 24501
PARCEL ZONING: ADJACENT ZONING:	R-3, MEDIUM DENSITY RESIDENTIAL DEVELOPMENT R-3 (NORTH, WEST, & SOUTHWEST), B-3 (SOUTH), B-5 (EAST)
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BENCHMARKS:	HORIZONTAL DATUM - NAD83 VIRGINIA STATE GRID, NORTH ZONE VERTICAL DATUM - NAVD 88
EXISTING USE: PROPOSED USE:	OUTDOOR RECREATION OUTDOOR RECREATION
PARKING REQUIRED:	1 SPACE PER FOUR PERSONS OF THE RATED CAPACITY
TOTAL EXISTING PARKING: TOTAL PROPOSED PARKING: REQUIRED ADA SPACES: PROVIDED ADA SPACES:	97 SPACES (TOTAL) 97 SPACES (TOTAL) 4 SPACES 4 SPACES
BICYCLE PARKING REQUIRED:	5% OF VEHICULAR PARKING SPACES 5% * 97 VEHICULAR SPACES = 5 BICYCLE SPACES
BICYCLE PARKING PROVIDED:	10 BICYCLE RACKS
APPROXIMATE RIGHT OF WAY WIDTH:	65 FEET (PARK AVENUE) (EXISTING)
UTILITIES:	PUBLIC WATER/ SEWER SERVICE
WETLAND IMPACTS:	NO WETLANDS ARE TO BE IMPACTED WITHIN THE PROPOSED SITE
FLOODPLAIN:	BASED ON FEMA FLOOD INSURANCE RATE MAP (FIRM), MAP NO. 5100930043D. NO IMPACTS TO THE FLOODPLAIN ARE PROPOSED WITH THIS DEVELOPMENT

"I HEREBY CERTIFY THAT, TO THE BEST OF MY ABILITY, THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE LATEST CITY OF LYNCHBURG MANUAL OF SPECIFICATIONS AND STANDARD DETAILS AND CITY CODE."

SIGNATURE:_____ TITLE:_____

PRINTED NAME AND TITLE:_____ DATE:_____

"I/WE HEREBY CERTIFY THAT ALL SITE CONSTRUCTION, DRAINAGE, AND GRADING WILL BE DONE PURSUANT TO THIS PLAN AND THAT THE APPLICABLE STORMWATER MANAGEMENT CONDITIONS AND REQUIREMENTS OF THE CITY OF LYNCHBURG, THE COMMONWEALTH OF VIRGINIA AND THE FEDERAL GOVERNMENT AND ITS AGENCIES ARE HEREBY MADE PART OF THIS PLAN"

SIGNATURE:_____ TITLE:_____

PRINTED NAME:_____ DATE:_____

CITY ENGINEER:_____ DATE:_____

TRC:_____ DATE:_____

E&S:_____ DATE:_____

NOTE: PRIOR TO THE USE OF AN OFFSITE BORROW OR FILL SITE, AN ADDENDUM WILL BE REQUIRED IDENTIFYING THE LOCATION, ADEQUATE STABILIZATION MEASURES WILL NEED TO BE INSTALLED AND AN APPROVED PERMIT FOR ANY OFF-SITE BORROW / FILL / WASTE SITE(S) THAT WILL BE USED IN CONJUNCTION WITH THE PROJECT WILL NE TO BE IDENTIFIED. THE ULTIMATE DESTINATION OF ALL DEBRIS FROM DEMOLITION MUST BE IDENTIFIED AT THE PRE-CONSTRUCTION MEETING.

PROJECT NAME:
MILLER PARK POOL RENOVATIONS

PROJECT LOCATION:
2100 PARK AVENUE LYNCHBURG, VA, 24501

COMMONWEALTH OF VIRGINIA
EDWIN A. ESPINO
No. 2346
06/26/2026
LANDSCAPE ARCHITECT

THIS DRAWING PREPARED AT THE
CHARLOTTESVILLE OFFICE
608 Preston Avenue, Suite 200 | Charlottesville, VA 22903
TEL 434.295.5624 FAX 434.295.8317 www.timmons.com

REVISION DESCRIPTION	DATE
1 ADDENDUM 1	07/01/2026
2 ADDENDUM 2	07/15/2026

1 ...UGH OURS.
2 YOUR VISIO...

DATE: 06/26/2026
DRAWN BY: M. RACHNER
DESIGNED BY: M. RACHNER
CHECKED BY: E. ESPINO
SCALE:

TIMMONS GROUP

MILLER PARK POOL
THE CITY OF LYNCHBURG
COVER SHEET

JOB NO. 57972.002
SHEET NO. C0.00

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UTILITY NOTES

1. ALL CONSTRUCTION MATERIALS, INSTALLATION, AND TESTING SHALL CONFORM TO THE LATEST EDITION OF THE CITY OF LYNCHBURG DESIGN GUIDELINES, UNLESS OTHERWISE NOTED.
2. CONTACT THE CITY OF LYNCHBURG, THE OWNERS, AND THE UTILITY PROVIDER PRIOR TO ANY UTILITY SERVICE INTERRUPTIONS TO COORDINATE DOWN TIME AND WORK SCHEDULE. SERVICE INTERRUPTIONS SHALL BE KEPT TO A MINIMUM.
3. THE LOCATION OF EXISTING UTILITY LINES, CONDUITS OR OTHER STRUCTURES ACROSS, UNDERNEATH, OR OTHERWISE ALONG THE LINE OF PROPOSED WORK ARE NOT NECESSARILY SHOWN ON THE PLANS, AND IF SHOWN MAY ONLY BE APPROXIMATE. THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES IN AREAS OF CONSTRUCTION PRIOR TO STARTING WORK AT NO ADDITIONAL COST TO THE OWNER. CONTACT ENGINEER AND OWNER IMMEDIATELY IF LOCATION OR ELEVATION IS DIFFERENT FROM WHAT IS SHOWN ON THE PLANS, IF THERE APPEARS TO BE A CONFLICT, OR UPON DISCOVERY OF ANY UTILITY NOT SHOWN ON THE PLANS TO ALLOW REVISIONS IF NECESSARY. FOR ASSISTANCE IN LOCATING EXISTING UTILITIES CALL "MISS UTILITY" AT 1-800-552-7001 OR 811.
4. TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN HEREON AND ANY OTHER EXISTING UTILITIES NOT SHOWN ON THESE PLANS. IF A UTILITY IS DAMAGED DURING CONSTRUCTION, STOP WORK IMMEDIATELY AND NOTIFY THE ENGINEER. DAMAGE TO UTILITIES (INCLUDING UNDERGROUND) OR PROPERTY OF OTHERS BY CONTRACTOR DURING CONSTRUCTION SHALL BE REPAIRED TO PRE-CONSTRUCTION CONDITIONS BY CONTRACTOR AT NO COST TO OWNER.
5. WHEN THE WORK CROSSES EXISTING UTILITIES THAT ARE TO REMAIN, THE EXISTING UTILITIES SHALL BE ADEQUATELY SUPPORTED AND PROTECTED FROM DAMAGE DUE TO THE WORK. ALL METHODS FOR SUPPORTING AND MAINTAINING THE EXISTING UTILITIES SHALL BE APPROVED BY THE RESPECTIVE UTILITY COMPANY AND/OR THE ENGINEER. CONTRACTOR SHALL EXERCISE CARE TO ENSURE THAT THE GRADE AND ALIGNMENT OF EXISTING UTILITIES ARE MAINTAINED AND THAT NO JOINTS OR CONNECTIONS ARE DISPLACED. BACKFILL SHALL BE CAREFULLY PLACED AND COMPACTED TO PREVENT FUTURE DAMAGE OR SETTLEMENT TO EXISTING UTILITIES. ANY UTILITIES REMOVED AS PART OF THE WORK, AND NOT INDICATED TO BE REMOVED OR ABANDONED, SHALL BE RESTORED USING MATERIALS AND INSTALLATION EQUAL TO THE UTILITY'S STANDARDS.
6. ALL PROPOSED UTILITIES ARE TO BE INSTALLED UNDERGROUND. ALL OF THESE UTILITIES (WATER, SANITARY SEWER, ELECTRICITY, ETC.) SHALL BE INSTALLED AND TESTED SATISFACTORILY PRIOR TO THE PLACEMENT OF AGGREGATE BASE COURSE WHERE SUCH UTILITIES ARE WITHIN THE LIMITS OF PAVEMENT.
7. MINIMUM COVER OVER TOP OF WATER PIPE SHALL BE 3.5 FEET. MINIMUM COVER OVER TOP OF SEWER PIPE SHALL BE 3.0 FEET.
8. WATER LINE MATERIALS:
   - 8.1. ALL WATER LINES 3" AND LARGER SHALL BE DUCTILE IRON PIPE, CLASS 52 MEETING REQUIREMENTS OF AWWA C-151, CURRENT REVISION. ALL DUCTILE IRON PIPES SHALL BE CEMENT LINED ON THE INTERIOR AND ASPHALT COATED ON THE EXTERIOR. THE JOINTS SHALL BE PUSH-ON, MECHANICAL, OR FLANGED IN ACCORDANCE WITH AWWA C-111. PIPE SHALL BE INSTALLED IN ACCORDANCE WITH AWWA C-600.
   - 8.2. ALL WATER LINES 2.5" AND SMALLER SHALL BE COPPER TYPE "K" OR MUNICIPEX PIPE IN ACCORDANCE WITH ASTM F-876.
9. SANITARY SEWER LINES:
   - 9.1. ALL SANITARY SEWER LINES SHALL BE SDR 26 PVC PIPE. ALL PIPE AND FITTINGS SHALL BE IN ACCORDANCE WITH ASTM D-3034 AND MANUFACTURED OF COMPOUNDS CONFIRMING TO ASTM D-1784. PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D-2321.
10. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES AND THE MEP ENGINEERS ON THE REQUIREMENTS FOR AND LIMITS OF ELECTRICAL, TELECOM, AND OTHER UTILITIES NOT DETAILED ON THE CIVIL PLANS.
11. THE OWNER OR THEIR REPRESENTATIVES WILL INSPECT ALL WATER AND SANITARY SEWER LINES, CONNECTIONS, AND APPURTENANCES THERETO, AS SHOWN ON THE UTILITY PLANS. FINAL ACCEPTANCE WILL NOT BE MADE UNTIL ALL WORK SHOWN ON THE PLANS IS COMPLETED; INCLUDING PAVING, GRADING, AND ALL REQUIRED ADJUSTMENTS.
12. THE CONTRACTOR SHALL LOCATE AND UNCOVER ALL SEWER MANHOLES OR WATER VALVE BOXES AFTER COMPLETION OF ALL PAVING AND TO ADJUST THEM TO THE FINAL GRADES. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR CLEANING OUT SEWER MAINS FOR FINAL INSPECTION, IF NECESSARY.
13. ALL EXCAVATION FOR UNDERGROUND PIPE INSTALLATION MUST COMPLY WITH OSHA STANDARDS FOR THE CONSTRUCTION INDUSTRY (29 CFR PART 1926).
14. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH SECTION 59.1-406, ET SEQ. OF THE CODE OF VIRGINIA (OVERHEAD) VOLTAGE LINES SAFETY ACT.
15. PER THE VIRGINIA DEPARTMENT OF HEALTH WATERWORKS REGULATIONS (PART II, ARTICLE 3, SECTION 12 VAC 5-590 THROUGH 630), ALL BUILDINGS THAT HAVE THE POSSIBILITY OF CONTAMINATING THE POTABLE WATER DISTRIBUTION SYSTEM (HOSPITALS, INDUSTRIAL SITES, BREWERIES, ETC.) SHALL HAVE A BACKFLOW PREVENTION DEVICE INSTALLED WITHIN THE FACILITY. THIS DEVICE SHALL MEET SPECIFICATIONS OF THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE, SHALL BE TESTED IN REGULAR INTERVALS AS REQUIRED, AND TEST RESULTS SHALL BE SUBMITTED TO THE REGULATORY COMPLIANCE ADMINISTRATOR IN THE DEPARTMENT OF UTILITIES.
16. ALL BUILDINGS THAT MAY PRODUCE WASTES CONTAINING MORE THAN ONE HUNDRED (100) PARTS PER MILLION OF FATS, OIL, OR GREASE SHALL INSTALL A GREASE TRAP. THE GREASE TRAP SHALL MEET SPECIFICATIONS OF THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE, MAINTAIN RECORDS OF CLEANING AND MAINTENANCE, AND BE INSPECTED ON REGULAR INTERVALS BY THE REGULATORY COMPLIANCE ADMINISTRATOR IN THE DEPARTMENT OF UTILITIES.
17. PLEASE CONTACT THE REGULATORY COMPLIANCE ADMINISTRATOR AT 434-970-3032 WITH ANY QUESTIONS REGARDING THE GREASE TRAP OR BACKFLOW PREVENTION DEVICES.
18. ALL UNDERGROUND POOL EQUIPMENT IS DESIGNED BY OTHERS AND SHOWN ON THE ASSOCIATED POOL PLANS. CONTRACTOR TO COORDINATE THE INSTALLATION OF POOL EQUIPMENT WITH THE POOL DESIGNER.

GENERAL NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT THE CITY OF LYNCHBURG AND VIRGINIA DEPARTMENT OF TRANSPORTATION'S (VDOT) SPECIFICATIONS AND STANDARDS.
2. THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS FOR THIS PROJECT FROM THE LOCAL OR STATE AGENCIES AT THEIR EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
3. THE CITY OF LYNCHBURG SHALL RECEIVE WRITTEN NOTIFICATION AT LEAST ONE WEEK PRIOR TO STARTING WORK ON THIS PROJECT.
4. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL CONSULT THE ENGINEER AND VERIFY THE APPROVAL OF THE PLANS BY ALL FEDERAL, STATE AND LOCAL AGENCIES.
5. THE CONTRACTOR SHALL HAVE A SET OF APPROVED PLANS AVAILABLE AT THE SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED. A DESIGNATED RESPONSIBLE EMPLOYEE SHALL BE AVAILABLE FOR CONTACT BY INSPECTORS.
6. THE CONTRACTOR SHALL VERIFY THE PROPOSED LAYOUT WITH ITS RELATIONSHIP TO THE EXISTING SITE SURVEY. ALSO VERIFY ALL DIMENSIONS, TIE-IN ELEVATIONS, SITE CONDITIONS, AND MATERIAL SPECIFICATIONS AND NOTIFY THE CITY/OWNER AND THE ENGINEER OF ANY ERRORS, OMISSIONS, OR DISCREPANCIES BEFORE COMMENCING OR PROCEEDING WITH WORK.
7. DEVIATIONS FROM OR CHANGES TO THESE PLANS WILL NOT BE ALLOWED, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
8. PERFORM ALL WORK USING DIMENSIONS SHOWN ON THESE PLANS. DO NOT USE SCALES, RULERS, OR OTHER MEASURING DEVICES TO DETERMINE SPATIAL RELATIONSHIPS ON THESE DRAWINGS.
9. ALL GROUND COVER AND LANDSCAPING SHALL BE PROPERLY MAINTAINED IN A HEALTHY CONDITION AT ALL TIMES. DEAD PLANT MATERIALS SHALL BE REMOVED IN A REASONABLE TIME AND REPLACED DURING THE NORMAL PLANTING SEASON.
10. PROPERLY SECURE THE CONSTRUCTION AREA AT ALL TIMES AGAINST UNAUTHORIZED ENTRY AND ADEQUATELY PROTECT EQUIPMENT, MATERIALS, AND COMPLETED WORK FROM THEFT AND VANDALISM. THE OWNER IS NOT RESPONSIBLE FOR THE LOSS OF ANY MATERIAL STORED AT THE SITE. ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
11. CONTRACTOR SHALL PROVIDE ALL REQUIRED TRAFFIC CONTROL MEASURES (NOT DETAILED ON THE PLANS). ALL CONTROL MEASURES SHOULD FOLLOW THE GUIDELINES AND REQUIREMENTS OF THE VDOT VIRGINIA WORK AREA PROTECTION MANUAL, LATEST EDITION.
12. CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS FOR AS BUILT DOCUMENTATION, AS REQUIRED BY THE CITY OF LYNCHBURG. THIS INCLUDES, BUT IS NOT LIMITED TO, TESTING, INSTALLATION DOCUMENTATION, SURVEY, ETC. ALL REQUIREMENTS SHALL BE DISCUSSED WITH THE CITY OF LYNCHBURG PRIOR TO THE BEGINNING CONSTRUCTION.
13. A SPECIAL INSPECTOR'S REPORT MUST BE SUBMITTED AND APPROVED BY THE CITY OF LYNCHBURG PRIOR TO A CERTIFICATE OF OCCUPANCY BEING ISSUED.
14. BEFORE A CERTIFICATE OF OCCUPANCY CAN BE ISSUES ALL ESC AND SWM MEASURES MUST BE DE-WATERED AND ALL PERMANENT MEASURES MUST BE CONSTRUCTED AND FUNCTIONING.

CONCRETE AND PAVEMENT NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT VIRGINIA DEPARTMENT OF TRANSPORTATION'S SPECIFICATIONS AND STANDARDS.
2. ALL CURBS/GUTTERS ARE TO BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH CURRENT VDOT STANDARDS, EXCEPT AS NOTED.
3. ALL FORMS SHALL BE INSPECTED BY THE PROJECT'S INSPECTOR BEFORE ANY CONCRETE IS PLACED. THE INSPECTOR MAY REQUIRE CONTRACTOR, AT NO ADDITIONAL COST, TO REMOVE AND REPLACE CONCRETE PLACED PRIOR TO OR WITHOUT SUCH INSPECTION.
4. ALL MATERIAL INSIDE FORMS SHALL BE CLEAN AND FREE OF ALL ROCKS AND OTHER LOOSE DEBRIS. SUB-BASE MATERIAL SHALL BE COMPACTED BY MECHANICAL MEANS.
5. CONCRETE SHALL NOT BE PLACED UNLESS THE AIR TEMPERATURE IS AT LEAST 40 DEGREES FAHRENHEIT (F) IN THE SHADE AND RISING.
6. 1/2" PRE-MOLDED EXPANSION JOINT MATERIAL SHALL BE PLACED AT A MAXIMUM OF 30' INTERVALS ON NEW SIDEWALK, CURB, CURB & GUTTER, AT EACH END OF DRIVEWAY ENTRANCES, AT EACH END OF HANDICAP RAMPS, SOME POINT ON ENTRANCE WALKS AND STEPS ADJUSTMENTS, AND ALONG BUILDINGS AND WALLS WHERE NEW CONCRETE SIDEWALKS ARE PLACED AGAINST THEM.
7. AS DETERMINED BY THE ENGINEER, ANY DEFECTIVE, FAULTY, CRACKED, BROKEN OR GRAFFITIED SIDEWALKS, DRIVEWAYS, HANDICAP RAMPS OR CURB & GUTTER SHALL BE REMOVED AND REPLACED PRIOR TO FINAL ACCEPTANCE. NO ADDITIONAL PAYMENT WILL BE MADE FOR SUCH WORK.
8. THE PAVEMENT DESIGN IS SUBJECT TO CHANGE DUE TO SOIL CONDITIONS AT THE TIME OF CONSTRUCTION, AS DETERMINED BY THE PROJECT'S INSPECTOR.
9. ALL VEGETATION, UNSUITABLE MATERIAL, AND ORGANIC MATERIAL SHALL BE REMOVED FROM THE CONSTRUCTION LIMITS OF PAVED AREAS AND DISPOSED OF PROPERLY AT AN APPROVED LOCATION.
10. EXISTING ASPHALT PAVEMENT SHALL BE SAWCUT AND REMOVED. REMOVAL SHALL BE DONE IN SUCH A MANNER AS TO NOT TEAR, BULGE OR DISPLACE ADJACENT PAVEMENT. EDGES SHALL BE CLEAN AND VERTICAL, ALL CUTS SHALL BE PARALLEL OR PERPENDICULAR TO THE DIRECTION OF TRAFFIC.
11. WHERE PAVEMENT IS BEING REMOVED, THE CONTRACTOR SHALL REMOVE AGGREGATE BASE MATERIAL TO SUB-GRADE.
12. EXISTING CURBS, CURB & GUTTER, SIDEWALKS, AND/OR STEPS TO BE REMOVED SHALL BE TAKEN OUT TO THE NEAREST JOINT. DEMOLITION AND DISPOSAL COST TO BE INCLUDED IN OTHER UNIT BID ITEMS. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK.
13. EXISTING PAVEMENT AND OTHER SURFACES DISTURBED BY CONTRACTOR (WHICH ARE NOT TO BE REMOVED) SHALL BE REPAIRED TO LIKE-NEW CONDITION.
14. THE SCHEDULING OF AGGREGATE BASE INSTALLATION AND SUBSEQUENT PAVING ACTIVITIES SHALL ACCOMMODATE FORECAST WEATHER CONDITIONS PER SECTION 315 OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS.
15. THE PROJECT'S INSPECTOR SHALL HAVE APPROVED THE AGGREGATE BASE COURSE(S) AND PERFORMED THE REQUIRED FIELD INSPECTION (PROOF ROLL) PRIOR TO PLACEMENT OF ANY SURFACE COURSE(S). CONTACT THE OWNER'S REPRESENTATIVE FOR INSPECTION FOR THE AGGREGATE BASE COURSE(S) 48 HOURS PRIOR TO APPLICATION OF THE SURFACE COURSE(S).
16. IN ACCORDANCE WITH THE LATEST VERSION OF THE AMERICANS WITH DISABILITY ACT ACCESSIBILITY GUIDELINES (ADAAG), ALL APPLICABLE CODES AND REQUIREMENTS FOR ACCESSIBILITY SHALL BE STRICTLY COMPLIED WITH.
17. ALL APPROACH GUTTERS TO SAG INLETS SHALL MAINTAIN A MINIMUM SLOPE OF 0.004 ft./ft.
18. CONTRACTOR SHALL EXERCISE CARE, ESPECIALLY AT INTERSECTIONS AND GUTTER LINES, TO PROVIDE POSITIVE DRAINAGE. ANY AREAS WHERE WATER IS IMPOUNDED SHALL BE CORRECTED BY CONTRACTOR AT NO ADDITIONAL COST. POSITIVE DRAINAGE OF ALL ROADWAY AREAS TO THE STORM DRAIN INLETS OR OTHER ACCEPTABLE DRAINAGE CHANNELS AS NOTED ON THE PLANS IS REQUIRED.
19. A PRIME COAT SEAL BETWEEN THE AGGREGATE BASE AND BITUMINOUS CONCRETE WILL BE REQUIRED AT THE RATE OF 0.30 GALLONS PER SQUARE YARD (REC-250 PRIME COAT) PER VDOT STANDARDS AND SPECIFICATIONS.
20. CERTIFICATION AND SOURCE OF MATERIALS ARE TO BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR ALL MATERIALS AND BE IN ACCORDANCE WITH THE ROAD AND BRIDGE SPECIFICATIONS, AND ROAD AND BRIDGE STANDARDS.

DRAINAGE NOTES

1. ALL STORM SEWER DESIGN AND CONSTRUCTION TO BE IN ACCORDANCE WITH VDOT STANDARDS, LATEST EDITION, EXCEPT WHERE THE LOCALITY'S STANDARDS AND DESIGN MANUAL IS APPLICABLE OR WHERE NOTED OTHERWISE.
2. THE CONTRACTOR SHALL EXERCISE CARE, ESPECIALLY AT INTERSECTIONS AND GUTTER LINES, TO PROVIDE POSITIVE DRAINAGE. ANY AREAS WHERE WATER IS PONDING SHALL BE CORRECTED BY CONTRACTOR AT NO ADDITIONAL COST. POSITIVE DRAINAGE OF ALL ROADWAY AREAS TO THE STORM DRAIN INLETS OR OTHER ACCEPTABLE DRAINAGE CHANNELS AS NOTED ON THE PLANS IS REQUIRED.
3. THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL DITCHES, PIPES, AND OTHER DRAINAGE STRUCTURES FREE FROM OBSTRUCTION UNTIL WORK IS ACCEPTED BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES CAUSED BY FAILURE TO MAINTAIN DRAINAGE STRUCTURE IN OPERABLE CONDITION.
4. ALL STORM SEWER PIPE SHALL BE HDPE IN ACCORDANCE WITH ASTM F2648, UNLESS OTHERWISE NOTED. PIPE SHALL HAVE SMOOTH INTERIOR AND ANNULAR EXTERIOR CORRUGATIONS. JOINTS SHALL BE WATERTIGHT ACCORDING TO ASTM D3212. JOINTS SHALL BE SEATED AND SEALED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
5. SHOP DRAWINGS SHALL BE SUBMITTED FOR THE ENGINEER'S REVIEW PRIOR TO PURCHASING FOR ALL STORM SEWER STRUCTURES.
6. ALL PIPES, INLETS AND OTHER STRUCTURES SHALL BE INSPECTED BY THE PROJECT'S INSPECTOR BEFORE BEING BACKFILLED OR BURIED. THE INSPECTOR MAY REQUIRE CONTRACTOR, AT NO ADDITIONAL COST, TO UNCOVER AND RE-COVER SUCH STRUCTURES IF THEY HAVE BEEN BACKFILLED OR BURIED WITHOUT SUCH INSPECTION.
7. ALL STORM SEWER PIPE AND DROP INLETS SHALL BE CLEARED OF DEBRIS AND ERODED MATERIAL PRIOR TO FINAL ACCEPTANCE.

EARTHWORK AND SITE CONDITIONS NOTES

1. BLASTING SHALL NOT BE PERMITTED ON THIS PROJECT.
2. PRIOR TO REMOVING ANY VEGETATION, THE CONTRACTOR SHALL MEET WITH THE PROPERTY OWNERS AND THE ENGINEER TO REVIEW THE LIMITS OF CONSTRUCTION AND OBTAIN PERMISSION TO REMOVE VEGETATION REQUIRED TO DO THE WORK.
3. TREE AND PLANT ROOTS OR BRANCHES THAT MAY INTERFERE WITH THE WORK SHALL BE TRIMMED OR CUT ONLY WITH THE APPROVAL OF THE OWNER AND ENGINEER. ANY TREES OR PLANTS WHICH ARE SHOWN TO REMAIN THAT DO NOT INTERFERE WITH THE WORK, BUT ARE DAMAGED BY CONTRACTOR OR HIS SUBCONTRACTORS, SHALL BE REPAIRED OR REPLACED BY CONTRACTOR AT NO ADDITIONAL COST.
4. ANY UNUSUAL OR UNANTICIPATED SUBSURFACE CONDITIONS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER.
5. UPON DISCOVERY OF SOILS THAT ARE UNSUITABLE FOR FOUNDATIONS, SUBGRADES, OR OTHER ROADWAY CONSTRUCTION PURPOSES, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER AND OWNER. THESE AREAS SHALL BE EXCAVATED BELOW PLAN GRADE AS DIRECTED BY THE OWNER'S REPRESENTATIVE, BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED IN ACCORDANCE WITH SPECIFICATIONS.
6. EXCEPT AS OTHERWISE SHOWN ON THE PLANS, ALL CUTS AND FILLS SHALL MATCH EXISTING SLOPES OR BE NO GREATER THAN 3:1.
7. THE CONTRACTOR SHALL VERIFY THE ELEVATIONS OF ALL POINTS OF CONNECTION OR PROPOSED WORK TO EXISTING CURBS, SANITARY LINES, WATERLINES, ETC, PRIOR TO CONSTRUCTION.
8. ALL GRADING AND IMPROVEMENTS TO BE CONFINED TO THE PROJECT AREA UNLESS OTHERWISE INDICATED.

VDOT DETAILS LEGEND

STANDARD	TITLE	PAGE
CG-6	COMBINATION 6" CURB & GUTTER	201.03
CG-12	CG-12 DETECTABLE WARNING SURFACE (GENERAL NOTES)	204.01
	CG-12 DETECTABLE WARNING SURFACE (TYPE B, PARALLEL APPLICATION)	204.03
	CG-12 DETECTABLE WARNING SURFACE (TYPE C, PARALLEL & PERPENDICULAR APPLICATION)	204.04
	CG-12 DETECTABLE WARNING SURFACE (TYPE: MEDIAN AND REFUGE ISLAND APPLICATIONS)	204.05
WP-2	ASPHALT PAVEMENT WIDENING	303.02
DI-2A	STANDARD CURB DROP INLET 12"-24" PIPE: MAXIMUM DEPTH (H) =9'	104.03
	STANDARD CURB DROP INLET 12"-24" PIPE: MAXIMUM DEPTH (H) =9'	104.04
MH-1	MANHOLE FOR 12" TO 48" PIPE CULVERTS	106.01
	STANDARD MANHOLE FRAME AND COVER	106.02
	STANDARD MANHOLE FRAME AND COVER	106.04

NOTE: IT IS THE CONTRACTOR'S RESPONSIBILITY TO REFERENCE CURRENT DETAILS IN THE VDOT ROAD AND BRIDGE STANDARDS. ALL VDOT DETAILS TO BE USED MAY NOT BE OUTLINED IN THIS CHART.

SITE PLAN LEGEND

- PROPERTY LINE
- W — WATER
- HDPE STORM PIPE
- SAN — SANITARY
- CATCH BASIN
- 1 — STORM MANHOLE
- # — SANITARY MANHOLE
- SANITARY CLEAN OUT
- BOLLARD
- STREET SIGN
- LIMITS OF DISTURBANCE
- X — FENCE
- XXX — MAJOR CONTOUR
- XXX — MINOR CONTOUR
- (X) PARKING SPACE COUNT

COMMONWEALTH OF VIRGINIA
06/26/2026
JOHNATHAN C. BRODIE
Lic. No. 053540
PROFESSIONAL ENGINEER

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YOUR VISION ACHIEVED THROUGH OURS.

REVISION DESCRIPTION	DATE
SIGNATURE SUBMISSION	6/26/2026

DATE 06/26/2026
DRAWN BY K. UFER
DESIGNED BY K. BARGER
CHECKED BY J. BRODIE
SCALE N/A

TIMMONS GROUP

MILLER PARK POOL
LYNCHBURG, VA
GENERAL NOTES

JOB NO. 57972.002
SHEET NO. C0.01

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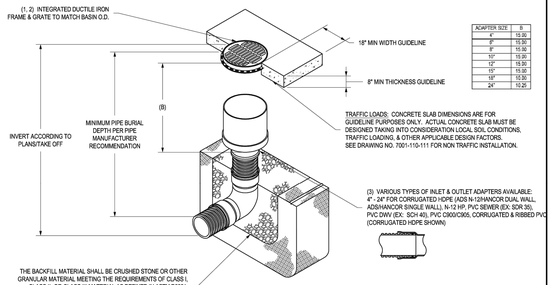
NYLOPLAST 24 " INLINE DRAIN: 2724AG _ _ X



ADAPTER SIZE	B
4"	15.00
6"	15.00
8"	15.00
10"	15.00
12"	15.00
15"	15.00
18"	15.00
24"	15.00

GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	2466CGP	7001-110-276
STANDARD	MEETS H-20	2466CGS	7001-110-217
SOLID COVER	MEETS H-20	2466CGC	7001-110-218
DOME	N/A	2466CGD	7001-110-219
DROP IN GRATE	LIGHT DUTY	2467DI	7001-110-275

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12 DUAL WALL) AND CORRUGATED N-12 HP, & PVC SEWER.
4 - DIMENSIONS ARE FOR REFERENCE ONLY. ACTUAL DIMENSIONS MAY VARY.
5 - DIMENSIONS ARE IN INCHES
6 - SEE DRAWING NO. 7001-110-275 FOR ADS N-12 & HANCOR DUAL WALL BELL INFORMATION & DRAWING NO. 7001-110-564 FOR N-12 HP BELL INFORMATION.

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DRAWN BY	EBC	MATERIAL	
DATE	04-03-06		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	03-15-16		
DWG SIZE	A	SCALE 1:40	SHEET 1 OF 1

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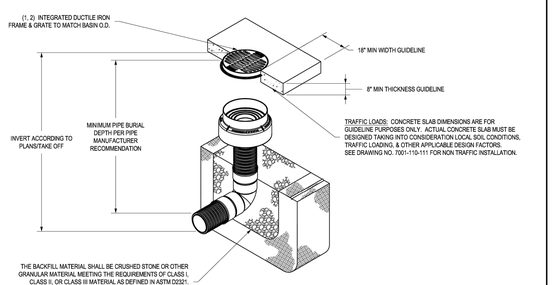
TITLE: 24 IN INLINE DRAIN QUICK SPEC INSTALLATION DETAIL
DWG NO. 7003-110-028 REV E

NYLOPLAST 24 " UNIVERSAL INLINE DRAIN



GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	2466CGP	7001-110-276
STANDARD	MEETS H-20	2466CGS	7001-110-217
SOLID COVER	MEETS H-20	2466CGC	7001-110-218
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DROP IN GRATE	LIGHT DUTY	2467DI	7001-110-275

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
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4 - DIMENSIONS ARE FOR REFERENCE ONLY. ACTUAL DIMENSIONS MAY VARY.
5 - DIMENSIONS ARE IN INCHES

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DRAWN BY	NMH	MATERIAL	
DATE	04-04-25		
APPD BY	NMH	PROJECT NO./NAME	
DATE	04-04-25		
DWG SIZE	A	SCALE 1:40	SHEET 1 OF 1

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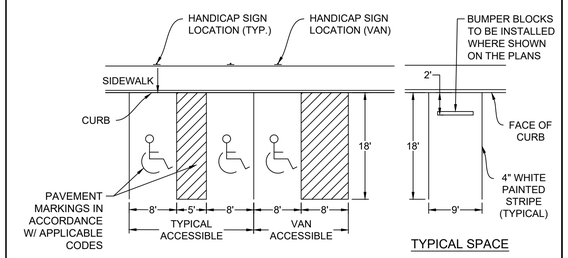
TITLE: 24 IN UNIVERSAL INLINE DRAIN QUICK SPEC INSTALLATION DETAIL
DWG NO. 7003-110-177 REV A



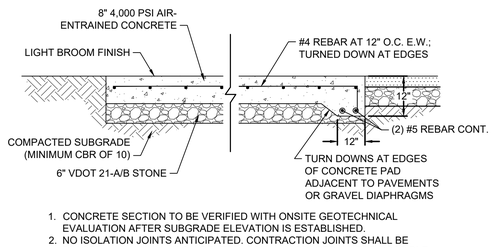
HANDICAP SPACES

NOTE: 2% MAX. IN ANY DIRECTION

TYPICAL SPACE

TYPICAL PARKING SPACE DETAILS

No Scale

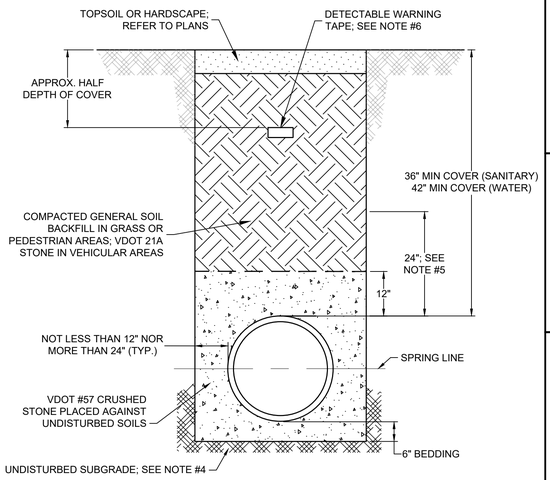


1. CONCRETE SECTION TO BE VERIFIED WITH ONSITE GEOTECHNICAL EVALUATION AFTER SUBGRADE ELEVATION IS ESTABLISHED.
2. NO ISOLATION JOINTS ANTICIPATED. CONTRACTION JOINTS SHALL BE PLACED A MAXIMUM 15' ON CENTER, EQUALLY SPACED WHERE POSSIBLE AND EXTENDING FROM ANY CORNERS IN THE PAD. GENERAL LAYOUT SHOWN ON SITE PLAN; REFER TO TYPICAL CONCRETE JOINT DETAIL ON THIS SHEET FOR JOINT REQUIREMENTS.
3. 3" OF CONCRETE COVER SHALL BE PROVIDED FOR ALL REINFORCING STEEL.

DENOTES HEAVY DUTY CONCRETE PAVEMENT ON PLANS

HEAVY DUTY CONCRETE PAVEMENT SECTION

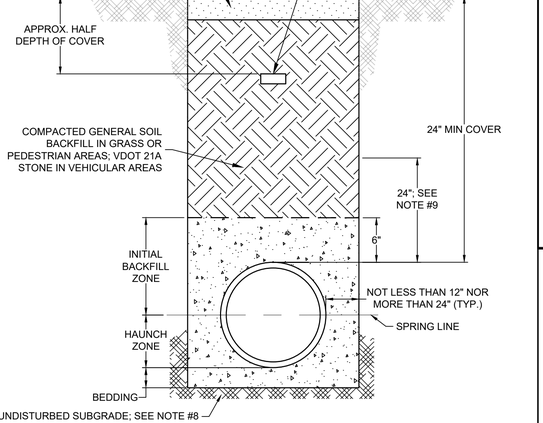
No Scale



NOTES:
1. ALL MATERIAL SHALL BE PLACED IN MAX. 6" LOOSE LAYERS AND COMPACTED TO AT LEAST 95% STANDARD PROCTOR, UNLESS OTHERWISE NOTED.
2. WORK IN AND TAMP MATERIAL IN THE SPACE BETWEEN THE BEDDING AND SPRING LINE OF PIPE. DO NOT PERMIT COMPACTION EQUIPMENT TO CONTACT PIPE. REMOVE ANY DAMAGED PIPE SECTIONS BEFORE PROCEEDING.
3. BACKFILL (OUTSIDE OF PAVEMENT AREAS) CAN BE EXCAVATED SOILS (GENERAL FILL MATERIAL), FREE OF ALL ORGANIC MATER AND FREE OF ROCKS LARGER THAN 6". REFER TO SPECIFICATIONS FOR ADDITIONAL BACKFILL REQUIREMENTS.
4. ANY OVER EXCAVATION SHALL BE REPLACED WITH BEDDING MATERIAL & COMPACTED TO 95% STANDARD PROCTOR.
5. MAINTAIN VERTICAL TRENCH WALL FROM BOTTOM OF TRENCH TO 24" ABOVE CROWN OF PIPE. FOR EXCAVATIONS OVER 5' DEEP, SLOPE TRENCH WALLS AS REQUIRED AND/OR PROVIDE OTHER SAFETY MEASURES IN ACCORDANCE WITH OSHA GUIDELINES.
6. WARNING TAPE SHALL BE ACID- AND ALKALI-RESISTANT, POLYETHYLENE FILM WITH METAL BACKING MANUFACTURED FOR MARKING AND IDENTIFYING UNDERGROUND UTILITIES, 6 INCHES WIDE AND 4 MILS THICK, CONTINUOUSLY INSCRIBED WITH A DESCRIPTION OF THE UTILITY; COLOR CODED ACCORDING TO AMERICAN PUBLIC WORKS ASSOCIATION (APWA) COLOR.

WATER AND SANITARY TRENCH BEDDING DETAIL

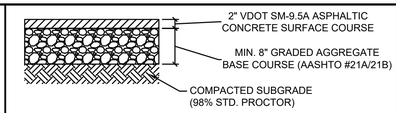
No Scale



NOTES:
1. BEDDING DEPTH PER DETAIL 107.00 & 107.01 OF THE VDOT ROAD AND BRIDGE STANDARDS.
2. BEDDING AND HAUNCH ZONE MATERIAL SHALL BE CLASSIFIED AS VDOT BEDDING MATERIAL.
3. INITIAL BACKFILL MATERIAL SHALL BE CLASSIFIED AS VDOT CLASS 1 BACKFILL MATERIAL.
4. BACKFILL ABOVE THE INITIAL BACKFILL ZONE (OUTSIDE OF PAVEMENT AREAS) CAN BE EXCAVATED SOILS (GENERAL FILL MATERIAL), FREE OF ALL ORGANIC MATER AND FREE OF ROCKS LARGER THAN 6". REFER TO SPECIFICATIONS FOR ADDITIONAL BACKFILL REQUIREMENTS.
5. ALL BACKFILL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH SECTION 302 OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS.
6. ALL MATERIAL SHALL BE PLACED IN MAX. 6" LOOSE LAYERS AND COMPACTED TO AT LEAST 95% STANDARD PROCTOR, UNLESS OTHERWISE NOTED.
7. WORK IN AND TAMP MATERIAL IN THE SPACE BETWEEN THE BEDDING AND SPRING LINE OF PIPE. DO NOT PERMIT COMPACTION EQUIPMENT TO CONTACT PIPE. REMOVE ANY DAMAGED PIPE SECTIONS BEFORE PROCEEDING.
8. ANY OVER EXCAVATION SHALL BE REPLACED WITH BEDDING MATERIAL & COMPACTED TO 95% STANDARD PROCTOR.
9. MAINTAIN VERTICAL TRENCH WALL FROM BOTTOM OF TRENCH TO 24" ABOVE CROWN OF PIPE. FOR EXCAVATIONS OVER 5' DEEP, SLOPE TRENCH WALLS AS REQUIRED AND/OR PROVIDE OTHER SAFETY MEASURES IN ACCORDANCE WITH OSHA GUIDELINES.
10. WARNING TAPE SHALL BE ACID- AND ALKALI-RESISTANT, POLYETHYLENE FILM WITH METAL BACKING MANUFACTURED FOR MARKING AND IDENTIFYING UNDERGROUND UTILITIES, 6 INCHES WIDE AND 4 MILS THICK, CONTINUOUSLY INSCRIBED WITH A DESCRIPTION OF THE UTILITY; COLOR CODED ACCORDING TO AMERICAN PUBLIC WORKS ASSOCIATION (APWA) COLOR.

STORM TRENCH BEDDING DETAIL

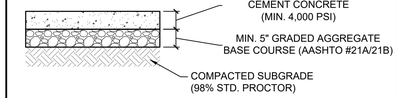
No Scale



NOTE: PROPOSED ASPHALT SECTION SHALL MATCH PAVEMENT DETAIL OR EXISTING PAVEMENT SECTION, WHICHEVER IS GREATER.

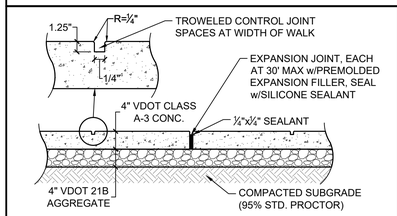
ASPHALT PAVEMENT SECTION

NO SCALE



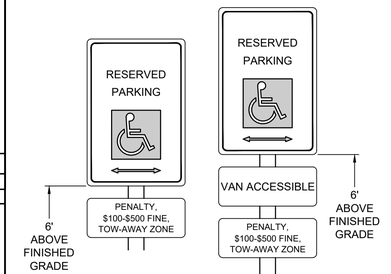
STANDARD CONCRETE SIDEWALK SECTION

NO SCALE



SIDEWALK & CONTROL JOINT DETAIL

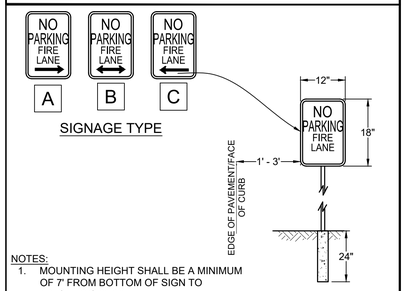
NO SCALE



PARKING SIGN FOR THE DISABLED

NO SCALE

ADA NOTES: ACCESSIBLE SPACES SHALL BE IDENTIFIED BY ABOVE GRADE SIGNS AS RESERVED FOR PHYSICALLY DISABLED PERSONS. PROVIDE ONE (1) R-7-8 SIGN AT EACH ACCESSIBLE PARKING SPACE INDICATED ON SITE PLAN. THE SIGN WILL BE ALUMINUM (PAINTED WHITE) WITH GREEN LETTERS AND THE INTERNATIONAL WHEELCHAIR SYMBOL. THE SIGN WILL INCLUDE THE LANGUAGE "PENALTY, $100-500 FINE, TOW-AWAY ZONE". THE CENTER OF SIGN SHALL BE AT LEAST FIVE (5) FEET ABOVE GRADE, BUT NO HIGHER THAN SEVEN (7) FEET ABOVE GRADE. THE SIGN SHALL BE PLACED ON A 1-1/2" DIAMETER STEEL POST, PAINTED BLACK, AND SET IN 12" OF CONCRETE. TYPICAL ACCESSIBLE SIGNS SHALL CONFORM TO ADA REQUIREMENTS.



NOTES:
1. MOUNTING HEIGHT SHALL BE A MINIMUM OF 7' FROM BOTTOM OF SIGN TO FINISHED GRADE.
2. LOCATE SIGNS AT EACH END OF FIRE LANE AND EVENLY SPACED BETWEEN AT NO MORE THAN 100' O.C. ARROW SHALL BE APPROPRIATE TO SIGN LOCATION.

FIRE LANE SIGNAGE DETAIL

No Scale

COMMONWEALTH OF VIRGINIA
06/26/2026
JOHNATHAN C. BRODIE
Lic. No. 053540
PROFESSIONAL ENGINEER

THIS DRAWING PREPARED AT THE
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REVISION DESCRIPTION	DATE
SIGNATURE SUBMISSION	6/26/2026
ADDENDUM 2	07/15/2026

SOLVED THROUGH OURS. YOUR VISION 2

DATE 06/26/2026
DRAWN BY K. UFER
DESIGNED BY K. BARGER
CHECKED BY J. BRODIE
SCALE N/A

TIMMONS GROUP

MILLER PARK POOL
LYNCHBURG, VA
GENERAL DETAILS

JOB NO. 57972.002
SHEET NO. C0.02

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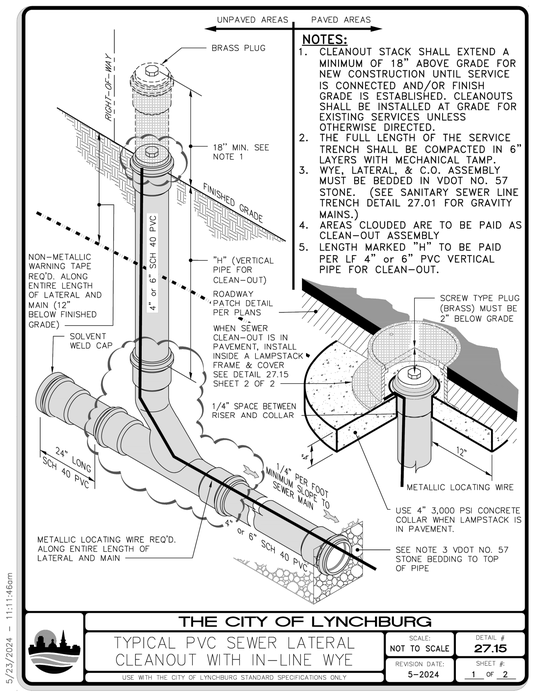

THE CITY OF LYNCHBURG

TYPICAL PVC SEWER LATERAL CLEANOUT WITH IN-LINE WYE

USE WITH THE CITY OF LYNCHBURG STANDARD SPECIFICATIONS ONLY

SCALE:	DETAIL #
NOT TO SCALE	27.15
REVISION DATE:	SHEET #
5-2024	1 OF 2

5/23/2024 - 11:11:46am

ES-WB

For Outdoor Installations

Job Name _____ Contractor _____

Job Location _____ Approval _____

Engineer _____ Contractor's P.O. No. _____

Approval _____ Representative _____

WattsBox
Insulated Enclosures

Specifications

Backflow prevention assemblies subjected to potential freezing conditions shall be protected with the WattsBox enclosure as shown.

The enclosure shall be of reinforced aluminum construction, providing access through doors for testing/certification purposes. It must also be totally removable for maintenance purposes. The enclosure shall be structurally lined with a unicellular, non-wicking insulation consisting of a sandwich laminate or applied by spray. It shall contain a thermostatically controlled heat source mounted to the interior wall or on the backflow preventer to provide protection to -30°F. No wood or "particle board" shall be allowed in assembly. Insulation mounted with glue will be cause for rejection. Power source will be protected with a ground fault circuit interrupting receptacle, UL Standard 943, NEMA 3R, installed by others, inside the box.

The enclosure shall contain drain openings sized to accommodate the maximum discharge of the reduced pressure zone assembly. Drain openings shall open to discharge under the most severe conditions. These openings are protected against intrusion of either wind, debris or animal. The enclosure is provided with means of permanent anchor and "lockable" access doors and/or lid to prohibit theft or vandalism.

All "wet" portions of the backflow prevention assembly shall be protected within the enclosure. Fire department hose connections and OSY indicating valve handles shall be maintained outside the enclosure.

The enclosure shall be factory assembled and delivered to the site ready to install with no drilling, screwing or riveting of enclosure required on site. The enclosure and the backflow preventer shall be covered by a single warranty policy. Enclosure shall be a Watts Series WattsBox.

WattsBox Aluminum Enclosure

Features

- Designed to eliminate valve vault entry requirements of OSHA confined Space Ruling 29CFR 1910.146.
- Single source Watts Regulator warranty of the enclosure, the backflow preventer, and the heat source.
- Allows for the installation of the backflow preventer "at the service connection" in accordance with AWWA Standards.
- Is specifically designed to meet NFPA guidelines. The enclosure provides freeze protection to maintain the water supply to the property's fire protection system. (NFPA 3-3.1.8 and 3.6.1.3.2).
- Strategically placed doors provide access to the backflow prevention assembly for testing and repair without removal of the entire unit.
- An economical alternative to expensive retrofit installations.
- Eliminates potential drainage constraints in existing equipment rooms.
- Saves valuable floor space.
- Standardly furnished with thermostatically controlled heat source for freeze protection down to -30°F.
- Contains no structural wood or particle board for long life.
- Easy installation aluminum enclosures feature interlocking panels which eliminate the use of screws during assembly.
- Can be temporarily removed for replacement of the backflow preventer without the need for replacement of freeze protection services.
- ASSE 1060 Certified (Consult factory for approved models)

NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.

WATTS

Dimensions (cont.)

FITS WATTS VALVES	WATTS MODEL #	DIMENSIONS 12" CLEARANCE LENGTH X WIDTH X HEIGHT	HEATERS	WEIGHT LBS.	MOUNTING PAD SIZE
Stucco Aluminum					
2½" - 3" 757N NRS / RFG / GT	WB 2000A	39" x 24" x 32"	90W	120	43" x 34"
2½" - 3" 757NRS / GT / RFG, 4" 7578FG	WB 2.5	60" x 22" x 30"	(2) 90W	100	63" x 32"
2½" - 3" 757OSY, 2½" - 3" 957NRS / OSY, 4" 957NRS	WB 2.75	60" x 22" x 42"	(2) 90W	140	63" x 44"
10" 7570SY, 10" 757DCDA, 10" 9570SY, 10" 9579PDA	WB 6-ET	105" x 36" x 80"	(2) 1500W	551	108" x 82"
10" 757N NRS	WB 8000ANT	73" x 45" x 60"	2000W	363	75" x 62"
8" 757N OSY, 8" 757N DCDA, 10" 757N OSY, 10" 757N DCDA, 8" 957N OSY, 10" 957N NRS, 10" 957N DSY, 8" 957N RPDA,10" 957N DCDA	WB 8000AET	73" x 67" x 60"	2000W	453	76" x 62"
Shinier Models					
¼" - 2"	WB-2S	47" x 13" x 28"	90W	65	58" x 24"
2½" - 3" NRS	WB-N3S	83" x 26" x 45"	1500W	365	95" x 38"
2½" - 3" OSY	WB-E3S	83" x 26" x 55	1500W	365	95" x 38"
4" NRS	WB-N4S	102" x 32" x 50.5"	2000W	415	114" x 44"
4" OSY	WB-E4S	102" x 32" x 57.5"	2000W	425	114" x 44"
6" NRS	WB-N6S	125" x 36" x 53"	3000W	545	137" x 48"
6" OSY	WB-E6S	125" x 36" x 64"	3000W	550	137" x 48"
8" NRS	WB-N8S	142" x 40" x 58"	3000W	585	154" x 52"
8" OSY	WB-E8S	142" x 40" x 74"	4000W	650	154" x 52"
10" NRS	WB-N10S	172" x 42" x 65"	4000W	685	184" x 54"
10" OSY	WB-E10S	172" x 42" x 85"	3800W	825	184" x 54"

USA: T: (978) 689-6066 • F: (978) 975-8350 • Watts.com
Canada: T: (905) 332-4090 • F: (905) 332-7068 • Watts.ca
Latin America: T: (52) 81-1001-8600 • Watts.com

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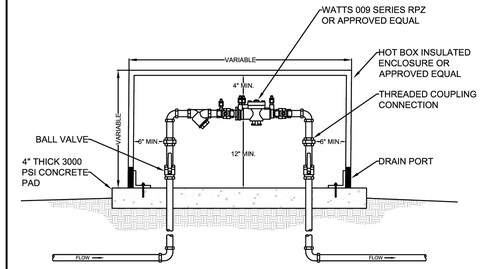
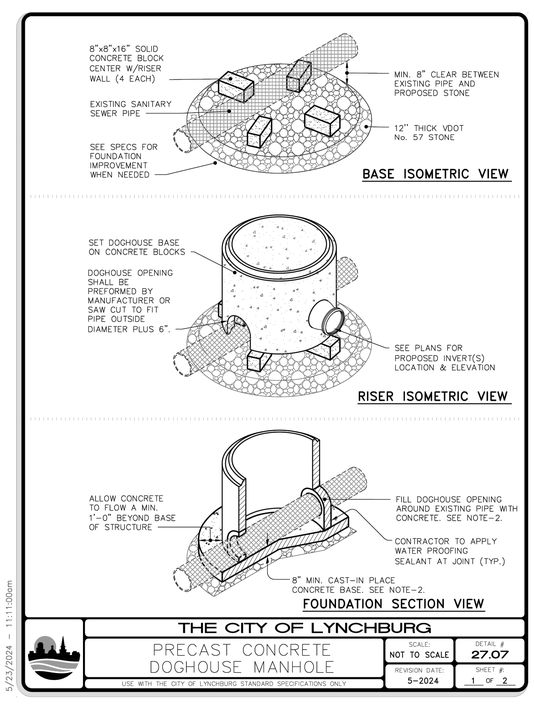


NOTES:

1.) ALL ASPECTS OF THE BACKFLOW PREVENTER ASSEMBLY SHALL COMPLY WITH ISLE OF WIGHT COUNTY STANDARDS AND SPECIFICATIONS ALONG WITH THE VIRGINIA DEPARTMENT OF HEALTH SPECIFICATIONS FOR CROSS CONNECTIONS AND BACKFLOW PREVENTION DEVICES.
2.) ADEQUATE POSITIVE DRAINAGE AWAY FROM THE ENCLOSURE SHALL BE PROVIDED.
3.) CONCRETE FLOOR ELEVATION SHALL BE APPROXIMATELY 2 INCHES ABOVE FINAL GRADE.
4.) BACKFLOW PREVENTER ASSEMBLY SHALL NOT BE LOCATED IN ANY AREA PRONE TO PONDING OR FLOODING.

DATE:	1" TO 2" RESIDENTIAL/COMMERCIAL OUTDOOR RPZ BACKFLOW PREVENTER ASSEMBLY	DRWG. NO.
JUNE 2015		WAT-7
REVISION:		



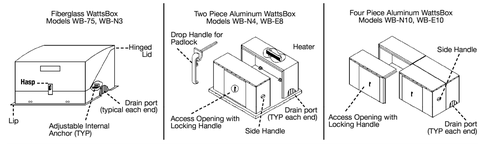
THE CITY OF LYNCHBURG

PRECAST CONCRETE DOGHOUSE MANHOLE

USE WITH THE CITY OF LYNCHBURG STANDARD SPECIFICATIONS ONLY

SCALE:	DETAIL #
NOT TO SCALE	27.07
REVISION DATE:	SHEET #
5-2024	1 OF 2

5/23/2024 - 11:11:20am



Construction

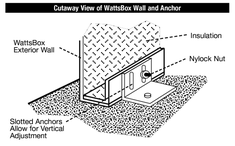
1. Minimum 18 gauge aluminum or fiberglass construction.
2. Structural unicellular insulation.
3. Stainless steel hasps or handle to accept customer supplied lock.
4. Relief ports at enclosure grade level.
5. Designed to protect to -30°F.
6. Minimum R of 8.
7. Adjustable internal anchors.

Heater Notes

1. 30W through 90W are heating cables, UL listed, CSA certified.
2. 1000W+ are wall mounted air heaters, ETL listed.
3. All circuits are 120 volt, single phase.
4. Service to WattsBox must be installed in accordance with the National Electric code and local ordinances, and protected with a G.F.I.

Typical Installation

1. Enclosure supplied with "anchor angles" at grade.
   a. Recommended installation: on concrete slab
   b. "Anchor angles" anchored to grade with mechanical fasteners (interior or exterior)
2. NRS (non-rising stem) valve handles enclosed inside enclosure
3. OSY (outside stem and yoke) valve handles concealed inside enclosure roof.
4. Door and construction hardware are lockable to prevent theft, vandalism or unauthorized entry.



Dimensions

(all enclosures are available less heat - contact factory or your local Watts representative for details)

FITS WATTS VALVES	WATTS MODEL #	DIMENSIONS 12" CLEARANCE LENGTH X WIDTH X HEIGHT	HEATERS	WEIGHT LBS.	MOUNTING PAD SIZE
Fiberglass					
Thru ¾" 007/LF007, 009/LF009, 909/LF909, 719/LF719, 919/LF919	WB-7S	19" x 11" x 22"	30W	30	28" x 20"
Thru 1" 007/LF007, 009/LF009, 909/LF909, 719/LF719, 919/LF919	WB-1	27" x 13" x 23"	60W	40	36" x 22"
Thru 1½" 007/LF007, 009/LF009, 909/LF909, 719/LF719, 919/LF919	WB-1.5	33" x 21" x 25"	60W	60	44" x 32"
Thru - 2" 007/LF007, 009/LF009, 909/LF909, 719/LF719, 919/LF919	WB-2	39" x 13" x 28"	90W	55	50" x 24"
¾" - 1" 008/LF008, 800/LF800, 288/LF288, 289/LF289	WB-PVB1	18" x 9" x 18"	30W	25	19" x 27"
(increases height by 6")	WB-PVB T1	18" x 9" x 24"	30W	28	19" x 27"
1½" - 2" 800 / 288	WB-PVB2	26" x 12" x 20"	60W	30	21" x 35"
(increases height by 8")	WB-PVB T2	26" x 12" x 28"	60W	35	21" x 35"
2½" - 3" all 007/LF007, 009/LF009, 909/LF909 4" 774 NRS / OSY / DCDA 4" 994NRS, 3" 775NRS / OSY / DCDA , 3" 995NRS, 4" 775NRS, 4" 994NRS, 2½" - 3" 757DCDA, 2½" - 3" 9570T, 2½" - 3" 9579PDA	WB-N3	70" x 26" x 45"	1000W	285	82" x 38"
4" 994OSY / RPDA, 4" 7750SY / DCDA, 3" 9950SY / RPDA	WB-E3	70" x 26" x 55"	1500W	375	82" x 38"
2½" - 3" 957N NRS / OSY / BFG / GT, 4" 957N NRS / BFG / GT	WB 3000	45" x 35" x 35"	1000W	265	57" x 47"
4" 957N OSY, 4" 757DCDA	WB 4000	53" x 44" x 44"	1000W	290	65" x 56"
Aluminum					
4" 709/LF709 NRS / OSY / DCDA, 4" 909/LF909 NRS / OSY / RPDA, 6" 774NRS / OSY / DCDA, 6" 994NRS, 6" 775NRS, 6" 995NRS, 8" 775NRS, 4" 757NRS / OSY, 6" 757NRS / OSY / BFG, 8" 757NRS / BFG, 4" 757DCDA, 6" 757DCDA, 4" 9570SY, 6" 957NRS, 8" 957NRS	WB-N4	90" x 32" x 50.5"	1900W	400	102" x 44"
6" 9570SY, 6" 957RPDA	WB-E4	90" x 32" x 57.5"	1900W	435	102" x 44"
6" 709/LF709 NRS / OSY / DCDA, 6" 909/LF909 NRS / OSY / RPDA, 8" 774 / 994NRS, 10" 774 NRS, 10" 957NRS	WB-N6	105" x 36" x 53"	1900W	480	117" x 48"
6" 994 OSY / RPDA, 8" 774 OSY / DCDA, 10" 994 NRS, 6" 7750SY / DCDA, 8" 7750SY / DCDA, 6" 9950SY / RPDA, 8" 7570SY, 10" 757NRS, 8" 757DCDA, 8" 9570SY, 8" 957RPDA	WB-E6	105" x 36" x 64"	3000W	530	117" x 48"
8" 709/LF709, 909/LF909 NRS	WB-N8	118" x 40" x 58"	3000W	565	130" x 52"
8" 709/LF709 OSY / DCDA, 8" 909/LF909 / 9940SY / RPDA, 10" 7740SY / DCDA, 8" 7570SY / DCDA, 8" 9570SY / RPDA, 10" 757NRS, 10" 957NRS	WB-E8	118" x 40" x 74"	3000W	625	130" x 52"
10" 709/LF709, 909/LF909 NRS	WB-N10	142" x 42" x 65"	3000W	620	154" x 54"
10" 709/LF709 OSY / DCDA, 10" 909/LF909 / 9940SY / RPDA, 10" 7570SY / DCDA, 10" 9570SY / RPDA	WB-E10	142" x 42" x 85"	3800W	700	154" x 54"
2½" - 3" 757N OSY, 4" 757N NRS / BFG, 6" 757N NRS / BFG, 6" 957N BFG	WB 4000AN	53" x 33" x 44"	1000W	280	65" x 45"
4" 757N OSY, 3" 757N DCDA, 6" 957N NRS, 8" 957N NRS, 2½" - 3" 957N RPDA, 4" 957N RPDA	WB 4000AE	53" x 44" x 44"	1000W	340	65" x 56"
8" 757N NRS, 4" 957 GT	WB 6000AN	62" x 39" x 46"	1500W	350	74" x 51"
6" 757N OSY, 6" 757N DCDA, 6" 957N OSY, 8" 957N NRS, 6" 957N RPDA	WB 6000AE	62" x 53" x 46"	1500W	440	74" x 65"

COMMONWEALTH OF VIRGINIA
06/26/2026
JOHNATHAN C. BRODIE
Lic. No. 053540
PROFESSIONAL ENGINEER

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REVISION DESCRIPTION	DATE
SIGNATURE SUBMISSION	6/26/2026

DATE 06/26/2026
DRAWN BY K. UFER
DESIGNED BY K. BARGER
CHECKED BY J. BRODIE
SCALE N/A

TIMMONS GROUP

MILLER PARK POOL
LYNCHBURG, VA
GENERAL DETAILS

JOB NO. 57972.002
SHEET NO. C0.03

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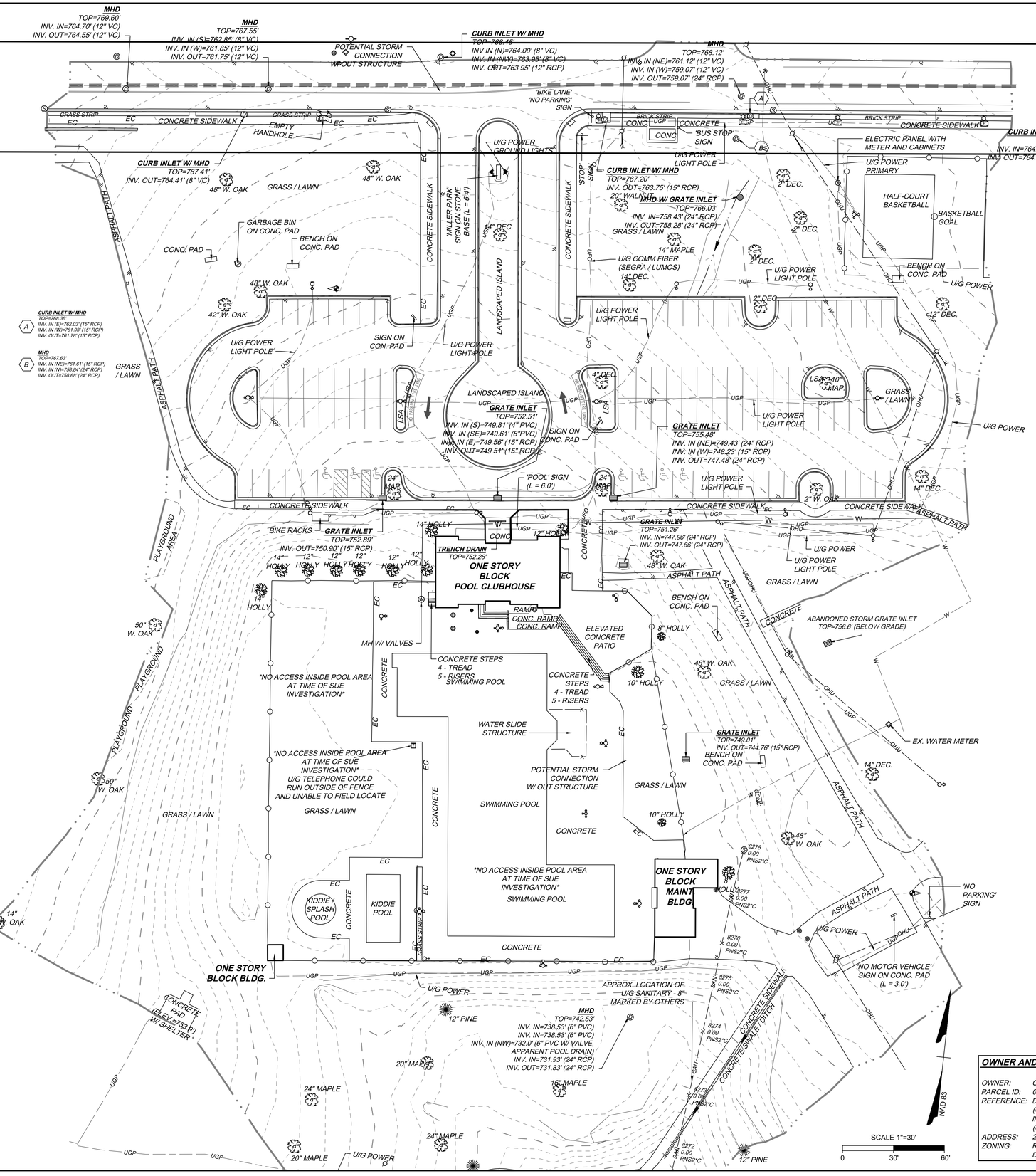

SYMBOL LEGEND

- HYDRANT
- WATER VALVE
- WATER MANHOLE
- WATER METER
- SPIGOT
- TELECOM PEDESTAL
- GROUND LIGHT
- LIGHT POLE (AREA, NO ARM)
- LIGHT POLE W/ ARM(S)
- UTILITY POLE
- GUY WIRE ANCHOR
- ELECTRIC VAULT
- ELECTRIC METER
- ELECTRIC BOX
- STORM DRAINAGE MANHOLE (MHD)
- STORM DRAINAGE (SD) GRATE INLET
- DRAINAGE / FLOW
- ACCESSIBLE PARKING
- SIGN
- BOLLARD
- SANITARY SEWER MANHOLE (MHS)
- CLEANOUT
- SANITARY FLOW DIRECTION
- PINE TREE
- DECIDUOUS (DEC.) TREE
- HOLLY TREE
- BENCHMARK

LINE-TYPE LEGEND

- EDGE OF PAVEMENT (EP)
- PAINT STRIPE SINGLE WHITE LINE (SWL)
- PAINT STRIPE DOUBLE YELLOW LINE (DYL)
- STORM DRAINAGE PIPE
- SANITARY PIPE
- OVERHEAD UTILITY LINE
- FENCE-LINE
- CHAIN-LINK FENCE-LINE
- CURB & GUTTER (C & G)
- TOPOGRAPHIC SURVEY LIMITS

ABBREVIATIONS

CONC.	CONCRETE
EC	EDGE OF CONCRETE
VC	VITRIFIED CLAY (PIPE)
PVC	POLYVINYL CHLORIDE
CMP	CORRUGATED METAL PIPE
RCP	REINFORCED CONCRETE PIPE
FFE	FINISH FLOOR ELEVATION
LSA	LANDSCAPED AREA
MAP.	MAPLE
W. OAK	WHITE OAK
DWS*	DETECTABLE WARNING SURFACE
R/W	RIGHT-OF-WAY

U/G UTILITY DESIGNATION NOTES:

1) U/G UTILITY DESIGNATION PERFORMED BY TIMMONS GROUP AND COMPLETED IN OCTOBER OF 2025.

2) ALL U/G UTILITIES FOUND ON-SITE ARE DESIGNATED AS QUALITY LEVEL B UNLESS OTHERWISE NOTED.

EOI = END OF INFORMATION FOR CONDUCTIVE UTILITY FIELD SIGNALS.

QLD - DATR = QUALITY LEVEL D DATA ACCORDING TO RECORDS.

QLC = QUALITY LEVEL C SHOWING AN APPROXIMATE LOCATION OF U/G UTILITY LINES BASED ON ABOVE GROUND UTILITY APPURTENANCES AND MAPPING (QLD).

UTILITY OWNERS:

-SEGRA / LUMOS NETWORKS (FIBER OPTIC)

SURVEY NOTES:

1. THE PURPOSE OF THIS SURVEY IS FOR PRESENTATION OF EXISTING TOPOGRAPHY AND CONSTRUCTED CONDITIONS FOR DEVELOPMENT OF SUBJECT PARCEL.
2. THE SURVEY IS BASED ON A CURRENT FIELD SURVEY BY TIMMONS GROUP COMPLETED ON OCTOBER 23, 2025.
3. NO BOUNDARY SHOWN HEREON AS NOT A SCOPE ITEM.
4. HORIZONTAL DATUM IS BASED ON NAD83 (NA2011), VIRGINIA STATE GRID, SOUTH ZONE. VERTICAL DATUM IS BASED ON NAVD88. EACH DATUM ESTABLISHED VIA NETWORK GPS (LEICA SmartNET) OBSERVATIONS.
5. BASED ON FEMA FLOOD INSURANCE RATE MAPS (FIRM), MAP NO. 51009J0043D, EFFECTIVE DATE JUNE 3, 2008, THE SUBJECT PROPERTY SHOWN HEREON LIES IN UNSHADED ZONE X, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.
6. THIS EXHIBIT WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT. EASEMENTS MAY EXIST WHICH ARE NOT SHOWN HEREON.
7. THERE WAS NO ACCESS INSIDE POOL AREA AT THE TIME OF THE SUE INVESTIGATION.

OWNER AND PROPERTY INFORMATION:

OWNER:	CITY OF LYNCHBURG
PARCEL ID:	01103001
REFERENCE:	DB. 33, PG. 73 & DB. 42, PG. 568 (CAMPBELL COUNTY) INSTRUMENT NO. 070003561 (CITY OF LYNCHBURG)
ADDRESS:	2100 PARK AVE, LYNCHBURG, VA
ZONING:	R3 - MEDIUM DENISTY RESIDENTIAL DISTRICT

THIS TOPOGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF JOSEPH C. MEDLEY FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION; THAT THE ORIGINAL DATA WAS OBTAINED ON THE FOLLOWING DATES: OCTOBER 3, 6, 7, 10, & 23, 2025. THIS PLAT, MAP AND DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.

HORIZONTAL DATUM: NAD83
VERTICAL DATUM: NAVD88

CONTOUR INTERVAL = 1'

COMMONWEALTH OF VIRGINIA
JOSEPH C. MEDLEY
Lic. No. 3385
06/26/2026
LAND SURVEYOR

THIS DRAWING PREPARED AT THE
ROANOKE OFFICE
109 NORFOLK AVENUE, Suite 100 | ROANOKE, VA 24011
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YOUR VISION ACHIEVED THROUGH OURS.

REVISION DESCRIPTION

DATE

DATE: 06/26/2026
DRAWN BY: J. MEDLEY
DESIGNED BY:
CHECKED BY:
SCALE: 1" = 30'

TIMMONS GROUP

MILLER PARK POOL
THE CITY OF LYNCHBURG
TOPOGRAPHIC SURVEY

JOB NO. 57972.002
SHEET NO. C1.00

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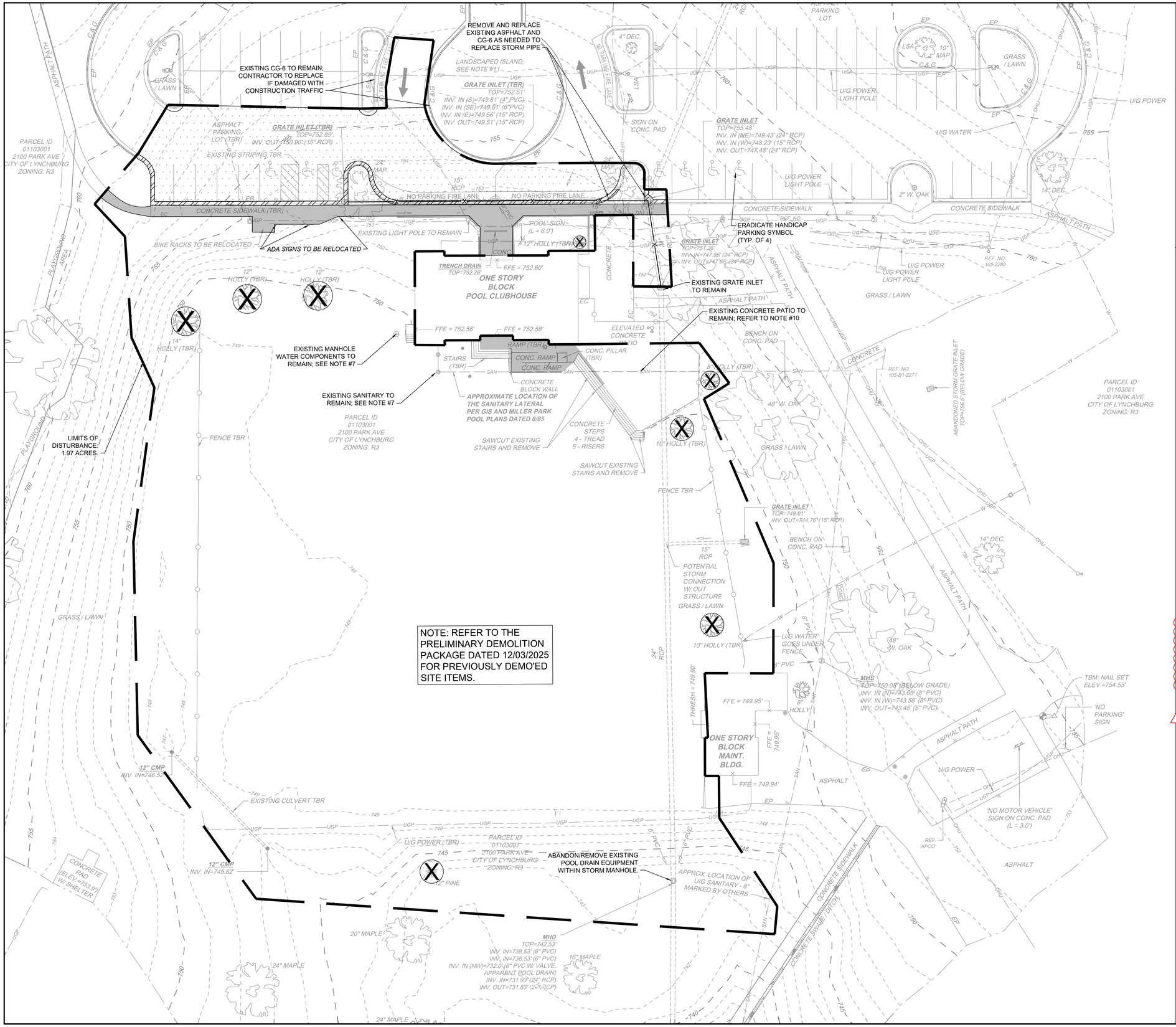

DEMO LEGEND

- LIMITS OF DISTURBANCE
- TREE REMOVAL
- SIDEWALK REMOVAL
- CURB REMOVAL
- ASPHALT REMOVAL
- TBR — TO BE REMOVED
- X — STORM PIPE REMOVAL

DEMOLITION PLAN NOTES:

1. ALL APPLICABLE ESC MEASURES SHALL BE IN PLACE PRIOR TO STARTING DEMOLITION.
2. ALL REMOVED MATERIAL SHALL BE TAKEN TO A PERMITTED FACILITY AND DISPOSED OF IN A LAWFUL MANNER.
3. A PRE-CONSTRUCTION MEETING IS MANDATORY BEFORE ANY WORK IS DONE AT THE SITE. CONTACT THE CITY OF LYNCHBURG. COORDINATE WITH THE EROSION AND SEDIMENT CONTROL PLAN AND ITS RESPECTIVE SEQUENCING.
4. THE CONTRACTOR MUST VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION. NOTIFY "MISS UTILITY" AT 1-800-552-7001 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION ACTIVITIES. ALSO NOTIFY THE ENGINEER IF THERE IS A CONFLICT.
5. NO LAND DISTURBANCE OUTSIDE THE LIMITS OF CONSTRUCTION IS TO TAKE PLACE UNTIL AUTHORIZED BY THE LYNCHBURG CITY ENVIRONMENTAL INSPECTOR.
6. EXISTING FEATURES TO REMAIN THAT ARE DAMAGED BY THE CONTRACTOR MUST BE RESTORED / REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
7. DURING THE UTILITY INVESTIGATION, THERE WAS NO ACCESS TO THE POOL DECK. UTILITIES WITHIN THE POOL DECK ARE NOT SHOWN. CONTRACTOR TO IDENTIFY EXISTING UTILITIES WITHIN THE POOL DECK AND REMOVE ALL CONDUIT TO EXISTING LIGHT POLES THAT ARE TO BE REMOVED, AND REMOVE ALL EXISTING POOL EQUIPMENT. SANITARY AND WATER SERVICE LATERALS TO THE CLUBHOUSE AND THE MAINTENANCE BUILDING ARE TO REMAIN. CONTRACTOR TO ALERT THE ENGINEER IF ANY CONFLICTS ARISE WITH THE PROPOSED DESIGN AND THE EXISTING SANITARY AND WATER LATERALS.
8. CONTRACTOR SHALL TAKE SPECIAL CARE WHEN WORKING AROUND UTILITIES THAT ARE TO REMAIN TO AVOID DAMAGING THEM.
9. EXISTING ASPHALT PAVEMENT SHALL BE SAWCUT AND REMOVED. ALL EDGES SHALL BE CLEAN AND VERTICAL WITH CUTS PARALLEL OR PERPENDICULAR TO THE DIRECTION OF TRAFFIC.
10. ALL CONCRETE SHALL BE REMOVED TO THE NEAREST JOINT. IF THERE ARE NO JOINTS WITHIN THE ELEVATED PATIO, THEN CLEAN SAWCUTS SHALL BE MADE.
11. EXISTING LANDSCAPE ISLAND TO REMAIN. NO CONSTRUCTION EQUIPMENT SHALL BE STORED WITHIN THE LANDSCAPE CIRCLE. IF DAMAGED DURING CONSTRUCTION, CONTRACTOR TO RETURN TO LIKE CONDITION.
12. EXISTING CONCRETE FROM THE ORIGINAL POOL DECK REMAINS ADJACENT TO THE EXISTING BUILDINGS (APPROXIMATELY 4' AWAY FROM BUILDINGS). THIS WAS NOT REMOVED DURING THE EARLY DEMOLITION PROJECT. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF THIS CONCRETE AS NECESSARY FOR INSTALLATION OF THE FINAL POOL DECK.

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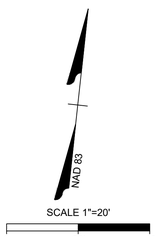

COMMONWEALTH OF VIRGINIA
06/26/2026
JOHNATHAN C. BRODIE
Lic. No. 053540
PROFESSIONAL ENGINEER

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REVISION DESCRIPTION	DATE
SIGNATURE SUBMISSION	6/26/2026
ADDENDUM 2	07/15/2026

YOUR VISION ACHIEVED THROUGH OURS.

DATE: 06/26/2026
DRAWN BY: K. UFER
DESIGNED BY: K. BARGER
CHECKED BY: J. BRODIE
SCALE: 1" = 20'

TIMMONS GROUP

MILLER PARK POOL

LYNCHBURG, VA

SITE DEMOLITION AND TREE PRESERVATION PLAN

JOB NO. 57972.002
SHEET NO. C2.00

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EROSION AND SEDIMENT CONTROL NARRATIVE:

PROJECT DESCRIPTION

THE SUBJECT PROPERTY IS LOCATED AT 2100 PARK AVENUE IN LYNCHBURG, VA, AND IT HAS A PARCEL AREA OF ±29.67 AC. CONSTRUCTION FOR THIS PHASE WILL INCLUDE ADDITIONAL DEMOLITION ITEMS, MINOR GRADING, CONSTRUCTION OF THE POOL DECK, ADA IMPROVEMENTS IN THE PARKING LOT, AND DRAINAGE IMPROVEMENTS. THE TOTAL LIMITS OF DISTURBANCE FOR THIS PROJECT WILL BE 1.96 ACRES WITH 1.09 ACRES OF IMPERVIOUS AREA IN THE PRE-DEVELOPED AND 1.10 ACRES OF IMPERVIOUS IN THE POST DEVELOPED. REFER TO THE EARLY DEMOLITION PACKAGE DATED 12/02/2025 FOR ITEMS PREVIOUSLY REMOVED.

ADJACENT PROPERTY

THESE CHANGES ARE BEING MADE WITHIN THE PROPERTY BOUNDARY. THE PROPERTY IS BOUNDED BY PARK AVENUE TO THE NORTH, LANGHORNE ROAD AND FORT AVENUE TO THE EAST, GROVE STREET AND THE MILLER CENTER TO THE SOUTH, AND EUCLID AVENUE TO THE WEST. BEYOND THESE BOUNDING ROADS, ARE MISCELLANEOUS RESIDENTIAL AND GENERAL BUSINESS ZONED PROPERTIES.

EXISTING SITE CONDITIONS

THE PARCEL IS CURRENTLY DEVELOPED WITH A PARKING LOT, AND POOL HOUSE. THE SITE IS CURRENTLY UNDERGOING DEMOLITION IN THE CURRENT POOL AREA. IN GENERAL, THE SITE SLOPES FROM THE NORTH TO THE SOUTH. THERE IS AN EXISTING STORM SYSTEM THAT CAPTURES OFFSITE RUNOFF TO DIRECT DRAINAGE AROUND THE POOL DECK AREA. IN GENERAL, THE EXISTING STORM SYSTEM FLOW GOES TO THE SOUTH OFFSITE. THE SLOPES AROUND THE POOL DECK ARE ~10%-15%. TO THE NORTHWEST, HOWEVER THE SLOPES CAN REACH UP TO ~25%. ADDITIONALLY, THERE ARE NO FLOOD PLAINS OR WETLANDS WITHIN THE PROJECT LIMITS.

OFF-SITE AREAS

OFF-SITE SOIL BORROW IS NOT ANTICIPATED FOR THIS PROJECT. HAULED MATERIAL FROM THE SITE WILL BE PLACED AT A LOCATION WITH AN ACTIVE EROSION & SEDIMENT CONTROL PERMIT IF APPLICABLE.

CRITICAL EROSION AREAS:

CRITICAL AREAS FOR THIS SITE INCLUDE THE STEEP SLOPES TO THE NORTHWEST AND SOUTH OF THE LOD. THESE SLOPES CAN GET UP TO 25%, AND IF NOT PROPERLY MAINTAINED SHALL BECOME EROSIVE.

EROSION AND SEDIMENT CONTROL MEASURES

UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE CURRENT ADDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK. THE MINIMUM STANDARDS OF THE VIRGINIA STORMWATER MANAGEMENT HANDBOOK (VSMH) SHALL BE ADHERED TO UNLESS OTHERWISE WAIVED OR APPROVED BY A VARIANCE BY LOCAL AUTHORITIES HAVING JURISDICTION.

STORMWATER RUNOFF CONSIDERATIONS

IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE SURE ALL EROSION AND SEDIMENT CONTROL DEVICES ARE MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VSMH.

VEGETATIVE PRACTICES:

1. TEMPORARY SEEDING - C-SSM-09 - ALL DENUDED AREAS WHICH WILL BE LEFT DORMANT FOR MORE THAN 30 DAYS SHALL BE SEEDED WITH FAST GERMINATING TEMPORARY VEGETATION IMMEDIATELY FOLLOWING GRADING OF THOSE AREAS. SELECTION OF THE SEED MIXTURE SHALL DEPEND ON THE TIME OF YEAR IT IS APPLIED.
2. PERMANENT SEEDING - C-SSM-10 - FOLLOWING GRADING ACTIVITIES, ESTABLISH PERENNIAL VEGETATIVE COVER BY PLANTING SEED TO REDUCE EROSION, STABILIZE DISTURBED AREAS, AND ENHANCE NATURAL BEAUTY.

STRUCTURAL PRACTICES:

1. TEMPORARY CONSTRUCTION ENTRANCE - C-SCM-03 - A TEMPORARY CONSTRUCTION ENTRANCE SHALL BE PROVIDED AT THE LOCATION INDICATED ON THE PLANS. IT IS IMPERATIVE THAT THIS MEASURE BE MAINTAINED THROUGHOUT CONSTRUCTION. ITS PURPOSE IS TO REDUCE THE AMOUNT OF MUD TRANSPORTED ONTO PAVED PUBLIC ROADS BY MOTOR VEHICLES OR RUNOFF.
2. SILT FENCE - C-PCM-04 - SILT FENCE SEDIMENT BARRIERS SHALL BE INSTALLED DOWNSLOPE OF AREAS WITH MINIMAL GRADES TO FILTER SETTLEMENT LADEN RUNOFF FROM SHEET FLOW AS INDICATED. ITS PURPOSE IS TO PREVENT SEDIMENT FROM LEAVING THE SITE.
3. CLEAN WATER DIVERSION - CECM-05 - DIVERSIONS MAY BE TEMPORARY CONVEYANCES TO MANAGE STORMWATER RUNOFF AT CONSTRUCTION SITES OR THEY MAY BE PERMANENT STORMWATER MANAGEMENT STRUCTURES. DIVERSIONS ARE USED TO REDUCE SLOPE LENGTH AND TO INTERCEPT AND DIVERT STORMWATER RUNOFF TO STABILIZED OUTLETS AT NON-EROSIVE VELOCITIES.
4. TREE PROTECTION - C-SSM-01 - FENCING INSTALLED AROUND THE PERIMETER OF THE SITE WHERE THE LIMITS OF DISTURBANCE IS ADJACENT TO WOODED AREAS TO REMAIN.
5. DUST CONTROL - C-SCM-01 - DUST CONTROL IS TO BE USED THROUGH CONSTRUCTION IN AREAS SUBJECT TO SURFACE AND AIR MOVEMENT TO MINIMIZE AIRBORNE MATERIALS FROM LEAVING THE SITE.
6. INLET PROTECTION - C-SCM-04 - INLET PROTECTION IS A SEDIMENT FILTER OR AN EXCAVATED IMPOUNDING AREA AROUND A STORM DRAIN DROP INLET OR CURB INLET.
7. CULVERT INLET PROTECTION - C-SCM-05 - CULVERT INLET PROTECTION IS A SEDIMENT FILTER LOCATED AT THE INLET OF CULVERTS TO PREVENT SEDIMENT FROM ENTERING AND ACCUMULATING IN A CULVERT AND ITS DRAINAGE SYSTEM.

MANAGEMENT STRATEGIES

1. PROVIDE SEDIMENT TRAPPING MEASURES AS A FIRST STEP IN GRADING, SEED AND MULCH IMMEDIATELY FOLLOWING INSTALLATION.
2. PROVIDE TEMPORARY SEEDING OR OTHER STABILIZATION IMMEDIATELY AFTER GRADING.
3. ISOLATE TRENCHING FOR UTILITIES AND DRAINAGE FROM DOWNSTREAM CONVEYANCES IN ORDER TO MINIMIZE PERIMETER CONTROLS.
4. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE MAINTAINED UNTIL THEY ARE NO LONGER REQUIRED TO COMPLY WITH THE CONTRACT DOCUMENTS OR STATE LAW.

PERMANENT STABILIZATION

ALL NON-PAVED AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING FINISHED GRADING. SEEDING SHALL BE IN ACCORDANCE WITH STD. & SPEC. 3.32, PERMANENT SEEDING. SEED TYPE SHALL BE AS SPECIFIED FOR "MINIMUM CARE LAWNS" AND "GENERAL SLOPES" IN THE HANDBOOK FOR SLOPES LESS THAN 3:1. FOR SLOPES GREATER THAN 3:1, SEED TYPE SHALL BE AS SPECIFIED FOR "LOW MAINTENANCE SLOPES" IN TABLE 3.32-D OF THE HANDBOOK. FOR MULCH (STRAW OR FIBER) SHALL BE USED ON ALL SEEDED SURFACES. IN ALL SEEDING OPERATIONS SEED, FERTILIZER AND LIME SHALL BE APPLIED PRIOR TO MULCHING.

SEQUENCE OF CONSTRUCTION

REFER TO SHEETS C3.02 AND C3.03 FOR THE SEQUENCE OF CONSTRUCTION.

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

ES-1: UNLESS OTHERWISE INDICATED, CONSTRUCT AND MAINTAIN ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE LATEST EDITION OF THE VIRGINIA STORMWATER MANAGEMENT HANDBOOK AND VIRGINIA REGULATIONS VR 625-02-00 EROSION AND SEDIMENT CONTROL REGULATIONS.

ES-2: THE CONTROLLING EROSION AND SEDIMENT CONTROL AUTHORITY WILL MAKE A CONTINUING REVIEW AND EVALUATION OF THE METHODS AND EFFECTIVENESS OF THE EROSION CONTROL PLAN.

ES-3: PLACE ALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO OR AS THE FIRST STEP IN CLEARING, GRADING, OR LAND DISTURBANCE.

ES-4: MAINTAIN A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN ON THE SITE AT ALL TIMES.

ES-5: PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFFSITE BORROW OR WASTE AREA), SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE ARCHITECT/ENGINEER AND THE CONTROLLING EROSION AND SEDIMENT CONTROL AUTHORITY FOR REVIEW AND ACCEPTANCE.

ES-6: PROVIDE ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE RESPONSIBLE LAND DISTURBER. (MODIFIED NOTE)

ES-7: ALL DISTURBED AREAS SHALL DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND-DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT.

ES-8: DURING DEWATERING OPERATIONS, PUMP WATER INTO AN APPROVED FILTERING DEVICE.

ES-9: INSPECT ALL EROSION CONTROL MEASURES DAILY AND AFTER EACH RUNOFF- PRODUCING RAINFALL EVENT. MAKE ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES IMMEDIATELY.

MINIMUM STANDARDS:

AN EROSION AND SEDIMENT CONTROL PROGRAM ADOPTED BY A DISTRICT OR LOCALITY MUST BE CONSISTENT WITH THE FOLLOWING CRITERIA, TECHNIQUES AND METHODS:

MS-1. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 14 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.
SEE EROSION AND SEDIMENT CONTROL NARRATIVE, THIS SHEET

MS-2. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS BORROW AREAS AND SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.
SEE EROSION AND SEDIMENT CONTROL NARRATIVE, THIS SHEET

MS-3. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION.
SEE EROSION AND SEDIMENT CONTROL NARRATIVE, THIS SHEET

MS-4. SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.
ALL PERIMETER CONTROLS WILL BE INSTALLED AS THE FIRST STEP IN SEQUENCE OF CONSTRUCTION.

MS-5. STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.
ALL CLEAN WATER DIVERSIONS WILL BE STABILIZED IMMEDIATELY AFTER CONSTRUCTION.

MS-6. SEDIMENT TRAPS AND SEDIMENT BASINS SHALL BE DESIGNED AND CONSTRUCTED BASED UPON THE TOTAL DRAINAGE AREA TO BE SERVED BY THE TRAP OR BASIN.
A. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT TRAP SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA AND THE TRAP SHALL ONLY CONTROL DRAINAGE AREAS LESS THAN THREE ACRES.
B. SURFACE RUNOFF FROM DISTURBED AREAS THAT IS COMPRISED OF FLOW FROM DRAINAGE AREAS GREATER THAN OR EQUAL TO THREE ACRES SHALL BE CONTROLLED BY A SEDIMENT BASIN. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT BASIN SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA. THE OUTFALL SYSTEM SHALL, AT A MINIMUM, MAINTAIN THE STRUCTURAL INTEGRITY OF THE BASIN DURING A 25-YEAR STORM OF 24-HOUR DURATION. RUNOFF COEFFICIENTS USED IN RUNOFF CALCULATIONS SHALL CORRESPOND TO A BARE EARTH CONDITION OR THOSE CONDITIONS EXPECTED TO EXIST WHILE THE SEDIMENT BASIN IS UTILIZED.
NOT APPLICABLE FOR THIS PROJECT.

MS-7. CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SLOPES THAT ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE YEAR OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED.
SITE IS DESIGNED TO HAVE A MAXIMUM PROPOSED SLOPE OF 3:1 TO MINIMIZE EXCESSIVE EROSION.

MS-8. CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE.
ALL CONCENTRATED FLOW IS DIRECTED TO AN APPROPRIATE EROSION OR PERMANENT DRAINAGE STRUCTURE AND WILL NO FLOW DIRECTLY DOWN CUT OR FILL SLOPES.

MS-9. WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.
NOT ANTICIPATED TO BE APPLICABLE TO THIS PROJECT. CONTRACTOR TO NOTIFY DESIGN ENGINEER IF SLOPE SEEPAGE IS ENCOUNTERED DURING CONSTRUCTION.

MS-10. ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
INLET PROTECTION SHALL BE ADDED TO ALL NEW INLETS BEFORE BRINGING THEM ONLINE.

MS-11. BEFORE NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS OR PIPES ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL.
TEMPORARY CHANNEL LINING WILL BE ADDED TO THE PROPOSED CHANNEL ONCE CONSTRUCTED.

MS-12. WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION. NONERODIBLE MATERIAL SHALL BE USED FOR THE CONSTRUCTION OF CAUSEWAYS AND COFFERDAMS. EARTHEN FILL MAY BE USED FOR THESE STRUCTURES IF ARMORED BY NONERODIBLE COVER MATERIALS.
NOT APPLICABLE TO THIS PROJECT.

MS-13. WHEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES MORE THAN TWICE IN ANY SIX-MONTH PERIOD, A TEMPORARY VEHICULAR STREAM CROSSING CONSTRUCTED OF NONERODIBLE MATERIAL SHALL BE PROVIDED.
NOT APPLICABLE TO THIS PROJECT.

MS-14. ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS PERTAINING TO WORKING IN OR CROSSING LIVE WATERCOURSES SHALL BE MET.
NOT APPLICABLE TO THIS PROJECT.

MS-15. THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED.
NOT APPLICABLE TO THIS PROJECT.

MS-16. UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:
A. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
B. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
C. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
D. MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
E. RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THESE REGULATIONS.
F. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.
NOT APPLICABLE TO THIS PHASE OF THE PROJECT.

MS-17. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED OR PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL DEVELOPMENT LOTS AS WELL AS TO LARGER LAND-DISTURBING ACTIVITIES.
SEE CONSTRUCTION ENTRANCE LOCATION ON SHEET C3.02 AND C3.03.

MS-18. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE LOCAL PROGRAM AUTHORITY. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.
SEE EROSION AND SEDIMENT CONTROL NARRATIVE, THIS SHEET

MS-19. PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION, EROSION AND DAMAGE DUE TO INCREASES IN VOLUME, VELOCITY AND PEAK FLOW RATE OF STORMWATER RUNOFF FOR THE STATED FREQUENCY STORM OF 24-HOUR DURATION IN ACCORDANCE WITH THE STANDARDS AND CRITERIA LISTED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, CHAPTER 8 PAGES 20-24.MS-19: ADEQUATE STORMWATER CONVEYANCE TO ADEQUATE STORMWATER OUTFALL
PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION, EROSION AND DAMAGE DUE TO INCREASES IN VOLUME, VELOCITY AND PEAK FLOW RATE OF STORMWATER RUNOFF FOR THE STATED FREQUENCY STORM OF 24-HOUR DURATION IN ACCORDANCE WITH THE FOLLOWING STANDARDS AND CRITERIA. STREAM RESTORATION AND RELOCATION PROJECTS THAT INCORPORATE NATURAL CHANNEL DESIGN CONCEPTS ARE NOT MANMADE CHANNELS AND SHALL BE EXEMPT FROM ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MANMADE CHANNELS:
(A) CONCENTRATED STORMWATER RUNOFF LEAVING THE DEVELOPMENT SITE SHALL BE DISCHARGED DIRECTLY INTO AN ADEQUATE NATURAL OR MANMADE RECEIVING CHANNEL, PIPE, OR STORM SEWER SYSTEM. FOR THOSE SITES WHERE RUNOFF IS DISCHARGED INTO A PIPE OR PIPE SYSTEM, DOWNSTREAM STABILITY ANALYSES AT THE OUTFALL OF THE PIPE OR PIE SYSTEM SHALL BE PERFORMED.
(B) ADEQUACY OF ALL CHANNELS AND PIPES SHALL BE VERIFIED IN THE FOLLOWING MANNER:
(1)THE APPLICANT SHALL DEMONSTRATE THAT THE TOTAL DRAINAGE AREA TO THE POINT OF ANALYSIS WITHIN THE CHANNEL IS 100 TIMES GREATER THAN THE CONTRIBUTING DRAINAGE AREA OF THE PROJECT IN QUESTION; OR
(2) (a) NATURAL CHANNELS SHALL BE ANALYZED BY THE USE OF A TWO-YEAR STORM TO VERIFY THAT STORMWATER WILL NOT OVERTOP CHANNEL BANKS NOR CAUSE EROSION OF CHANNEL BED OR BANKS.
(b) ALL PREVIOUSLY CONSTRUCTED MANMADE CHANNELS SHALL BE ANALYZED BY THE USE OF A 10-YEAR STORM TO VERIFY THAT STORMWATER WILL NOT OVERTOP THE STORMWATER'S BANKS AND BY THE USE OF A TWO-YEAR STORM TO DEMONSTRATE THAT STORMWATER WILL NOT CAUSE EROSION OF CHANNEL BED OR BANKS; AND
(c)PIPES AND STORM SEWER SYSTEMS SHALL BE ANALYZED BY THE USE OF A 10-YEAR STORM TO VERIFY THAT STORMWATER WILL BE CONTAINED WITHIN THE PIPE OR SYSTEM.
(C) IF EXISTING NATURAL RECEIVING CHANNELS OR PREVIOUSLY CONSTRUCTED MANMADE CHANNELS OR PIPES ARE NOT ADEQUATE, THE APPLICANT SHALL:
(1)IMPROVE THE CHANNELS TO A CONDITION WHERE A 10-YEAR STORM WILL NOT OVERTOP THE BANKS AND A TWO-YEAR STORM WILL NOT CAUSE EROSION TO THE CHANNEL, THE BED, OR THE BANKS;
(2)IMPROVE THE PIPE OR PIPE SYSTEM TO A CONDITION WHERE THE 10-YEAR STORM IS CONTAINED WITHIN THE APPURTENANCES;
(3)DEVELOP A SITE DESIGN THAT WILL NOT CAUSE THE PREDEVELOPMENT PEAK RUNOFF RATE FROM A TWO-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A NATURAL CHANNEL OR WILL NOT CAUSE THE PREDEVELOPMENT PEAK RUNOFF RATE FROM A 10-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A MANMADE CHANNEL; OR
(4)PROVIDE A COMBINATION OF CHANNEL IMPROVEMENT, STORMWATER DETENTION, OR OTHER MEASURES THAT IS SATISFACTORY TO THE VESCP OR VESMP AUTHORITY TO PREVENT DOWNSTREAM EROSION.

(d) THE APPLICANT SHALL PROVIDE EVIDENCE OF PERMISSION TO MAKE THE IMPROVEMENTS.
(e) ALL HYDROLOGIC ANALYSES SHALL BE BASED ON THE EXISTING WATERSHED CHARACTERISTICS AND THE ULTIMATE DEVELOPMENT CONDITION OF THE SUBJECT PROJECT.
(f) IF THE APPLICANT CHOOSES AN OPTION THAT INCLUDES STORMWATER DETENTION, THE APPLICANT SHALL OBTAIN APPROVAL FROM THE VESCP OR VESMP AUTHORITY FOR A PLAN FOR MAINTENANCE OF THE DETENTION FACILITIES. THE PLAN SHALL SET FORTH THE MAINTENANCE REQUIREMENTS OF THE FACILITY AND THE PERSON RESPONSIBLE FOR PERFORMING THE MAINTENANCE.
(g) OUTFALL FROM A DETENTION FACILITY SHALL BE DISCHARGED TO A RECEIVING CHANNEL, AND ENERGY DISSIPATORS SHALL BE PLACED AT THE OUTFALL OF ALL DETENTION FACILITIES AS NECESSARY TO PROVIDE A STABILIZED TRANSITION FROM THE FACILITY TO THE RECEIVING CHANNEL.
(h) ALL ON-SITE CHANNELS MUST BE VERIFIED TO BE ADEQUATE.
(i) INCREASED VOLUMES OF SHEET FLOWS THAT MAY CAUSE EROSION OR SEDIMENTATION ON ADJACENT PROPERTY SHALL BE DIVERTED TO A STABLE OUTLET, ADEQUATE CHANNEL, PIPE, OR PIPE SYSTEM OR TO A DETENTION FACILITY.
(j) IN APPLYING THESE STORMWATER MANAGEMENT CRITERIA, INDIVIDUAL LOTS OR PARCELS IN A RESIDENTIAL, COMMERCIAL, OR INDUSTRIAL DEVELOPMENT SHALL NOT BE CONSIDERED TO BE SEPARATE DEVELOPMENT PROJECTS. INSTEAD, THE DEVELOPMENT, AS A WHOLE, SHALL BE CONSIDERED TO BE A SINGLE DEVELOPMENT PROJECT. HYDROLOGIC PARAMETERS THAT REFLECT THE ULTIMATE DEVELOPMENT CONDITION SHALL BE USED IN ALL ENGINEERING CALCULATIONS.
(k) ALL MEASURES USED TO PROTECT PROPERTIES AND WATERWAYS SHALL BE EMPLOYED IN A MANNER THAT MINIMIZES IMPACTS ON THE PHYSICAL, CHEMICAL, AND BIOLOGICAL INTEGRITY OF RIVERS, STREAMS, AND OTHER WATERS OF THE STATE.
(l) ANY PLAN APPROVED PRIOR TO JULY 1, 2014, THAT PROVIDES FOR STORMWATER MANAGEMENT THAT ADDRESSES ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MANMADE CHANNELS SHALL SATISFY THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MANMADE CHANNELS IF THE PRACTICES ARE DESIGNED TO (I) DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 48 HOURS; (II) DETAIN AND RELEASE OVER A 24-HOUR PERIOD THE EXPECTED RAINFALL RESULTING FROM THE ONE YEAR, 24-HOUR STORM; AND (III) REDUCE THE ALLOWABLE PEAK FLOW RATE RESULTING FROM THE 1.5-YEAR, TWO-YEAR, AND 10-YEAR 24-HOUR STORMS TO A LEVEL THAT IS LESS THAN OR EQUAL TO THE PEAK FLOW RATE FROM THE SITE ASSUMING THE SITE WAS IN A GOOD FORESTED CONDITION, ACHIEVED THROUGH MULTIPLICATION OF THE FORESTED PEAK FLOW RATE BY A REDUCTION FACTOR THAT IS EQUAL TO THE RUNOFF VOLUME FROM THE SITE WHEN THE SITE WAS IN A GOOD FORESTED CONDITION DIVIDED BY THE RUNOFF VOLUME FROM THE SITE IN THE SITE'S PROPOSED CONDITION, AND SHALL BE EXEMPT FROM ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MANMADE CHANNELS AS DEFINED IN ANY REGULATIONS PROMULGATED PURSUANT TO § 62.1-44.15:28 OF THE CODE OF VIRGINIA (VESMA) OR § 62.1-44.15:54 OR 62.1-44.15:65 OF THE CODE OF VIRGINIA (ESCL).
(m) FOR PLANS APPROVED ON AND AFTER JULY 1, 2014, THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS OF § 62.1-44.15:52 A OF THE CODE OF VIRGINIA (ESCL) AND THIS SUBDIVISION 19 SHALL BE SATISFIED BY COMPLIANCE WITH WATER QUANTITY REQUIREMENTS IN THE VESMA AND ATTENDANT REGULATIONS, UNLESS SUCH LAND-DISTURBING ACTIVITIES (I) ARE IN ACCORDANCE WITH PROVISIONS FOR TIME LIMITS ON APPLICABILITY OF APPROVED DESIGN CRITERIA IN 9VAC25-875-480 OR GRANDFATHERING IN 9VAC25-875-490, IN WHICH CASE THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS OF § 62.1-44.15:52 A OF THE CODE OF VIRGINIA (ESCL) SHALL APPLY; OR (II) ARE EXEMPT PURSUANT TO § 62.1-44.15:34 G 2 OF THE CODE OF VIRGINIA (VESMA).
(n) COMPLIANCE WITH THE WATER QUANTITY MINIMUM STANDARDS SET OUT IN 9VAC25-875-600 SHALL BE DEEMED TO SATISFY THE REQUIREMENTS OF THIS SUBDIVISION 19.

DOWNSTREAM PROPERTIES ARE PROTECTED FROM RUNOFF AND EROSION DAMAGE BY UTILIZING THE PERIMETER CONTROLS AND PROPOSED STORMWATER MEASURES. THE OVERALL LIMITS OF DISTURBANCE IS 1.96 ACRES. THEREFOR THE STORMWATER MANAGEMENT QUALITY AND QUANTITY REQUIREMENTS WILL BE APPLIED. SEE THE ACCOMPANYING SWM CALC BOOK FOR ADDITIONAL INFORMATION.

GENERAL CONSTRUCTION NOTES FOR EROSION AND SEDIMENT CONTROL

1. THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
2. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA STORM MANAGEMENT HANDBOOK AND VIRGINIA REGULATIONS VR 625-02-00 EROSION AND SEDIMENT CONTROL REGULATIONS.
3. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.
4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
5. PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.
6. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.
7. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE TO ALL MEASURES, AND SHALL ADJUST DIVERSIONS AS NEEDED.
8. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.
9. ALL FILL MATERIAL TO BE TAKEN FROM AN APPROVED, DESIGNATED BORROW AREA.
10. ALL WASTE MATERIALS SHALL BE TAKEN TO AN APPROVED WASTE AREA. EARTH FILL SHALL BE INERT MATERIALS ONLY, FREE OF ROOTS, STUMPS, WOOD, RUBBISH, AND OTHER DEBRIS.
11. BORROW OR WASTE AREAS ARE TO BE RECLAIMED WITHIN 7 DAYS OF COMPLETION
12. BORROW, FILL OR WASTE ACTIVITY INVOLVING INDUSTRIAL-TYPE POWER EQUIPMENT SHALL BE LIMITED TO THE HOURS OF 7:00AM TO 9:00PM.
13. BORROW, FILL OR WASTE ACTIVITY SHALL BE CONDUCTED IN A SAFE MANNER THAT MAINTAINS LATERAL SUPPORT, OR ORDER TO MINIMIZE ANY HAZARD TO PERSONS, PHYSICAL DAMAGE TO ADJACENT LAND AND STRUCTURES/IMPROVEMENTS, AND DAMAGE TO ANY PUBLIC STREET BECAUSE OF SLIDES, SINKING, OR COLLAPSE.
14. THE DEVELOPER SHALL RESERVE THE RIGHT TO INSTALL, MAINTAIN, REMOVE OR CONVERT TO PERMANENT STORMWATER MANAGEMENT FACILITIES WHERE APPLICABLE ALL EROSION CONTROL MEASURES REQUIRED BY THIS PLAN.
15. TEMPORARY STABILIZATION SHALL BE TEMPORARY SEEDING AND MULCHING. SEEDING IS TO BE AT 75 LBS/ACRE, AND IN THE MONTHS OF SEPTEMBER TO FEBRUARY TO CONSIST A 50/50 MIX OF ANNUAL RYEGRASS AND CEREAL WINTER RYE, OR IN MARCH AND APRIL TO CONSIST OF ANNUAL RYE, OR MAY THROUGH AUGUST TO CONSIST OF GERMAN MILLET. STRAW MULCH IS TO BE APPLIED AT 80LBS/100SF. ALTERNATIVES ARE SUBJECT TO APPROVAL BY THE COUNTY EROSION CONTROL INSPECTOR.
16. PERMANENT STABILIZATION SHALL BE LIME AND FERTILIZER, PERMANENT SEEDING, AND MULCH. AGRICULTURAL GRADE LIMESTONE SHALL BE APPLIED AT 90LBS/1000SF, INCORPORATED INTO THE TOP 4-6 INCHES OF SOIL. FERTILIZER SHALL BE APPLIED AT 1000LBS/ACRE AND CONSIST OF A 10-20-10 NUTRIENT MIX. PERMANENT SEEDING SHALL BE APPLIED AT 180LBS/ACRE AND CONSIST OF 95% KENTUCKY 31 OR TALL FESCUE AND 0-5% PERENNIAL RYEGRASS OR KENTUCKY BLUEGRASS. STRAW MULCH IS TO BE APPLIED AT 80LBS/100SF. ALTERNATIVES ARE SUBJECT TO APPROVAL BY THE COUNTY EROSION CONTROL INSPECTOR.
17. MAINTENANCE: ALL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL EVENT. ANY DAMAGE OR CLOGGING TO STRUCTURAL MEASURES SHALL BE REPAIRED IMMEDIATELY. SILT TRAPS SHALL BE CLEANED WHEN 50% OF THE WET STORAGE VOLUME IS FILLED WITH SEDIMENT. ALL SEEDED AREAS SHALL BE RESEEDED WHEN NECESSARY TO ACHIEVE A GOOD STAND OF GRASS. SILT FENCE AND DIVERSION DIKES WHICH COLLECT SEDIMENT TO HALF THEIR HEIGHT MUST BE CLEANED AND REPAIRED IMMEDIATELY.
18. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS OF FINAL SITE STABILIZATION, WHEN MEASURES ARE NO LONGER NEEDED, SUBJECT TO APPROVAL BY THE COUNTY EROSION CONTROL INSPECTOR.

SOILS INFORMATION:

GeB2 - GEORGEVILLE LOAM, 2 TO 6 PERCENT SLOPES, MORE THAN 80 INCHES TO RESTRICTIVE FEATURES, WELL DRAINED, HYDROLOGIC SOIL GROUP: B

GeC2 - GEORGEVILLE LOAM, 6 TO 15 PERCENT SLOPES, MORE THAN 80 INCHES TO RESTRICTIVE FEATURES, WELL DRAINED, HYDROLOGIC SOIL GROUP: B

COMMONWEALTH OF VIRGINIA
06/26/2026
JOHNATHAN C. BRODIE
Lic. No. 053540
PROFESSIONAL ENGINEER

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YOUR VISION ACHIEVED THROUGH OURS.

REVISION DESCRIPTION	DATE

DATE: 06/26/2026
DRAWN BY: K. UFER
DESIGNED BY: K. BARGER
CHECKED BY: J. BRODIE
SCALE: 1" = 20'

TIMMONS GROUP

MILLER PARK POOL
THE CITY OF LYNCHBURG
SITE EROSION AND SEDIMENT CONTROL GENERAL NOTES

JOB NO. 57972.002
SHEET NO. C3.00

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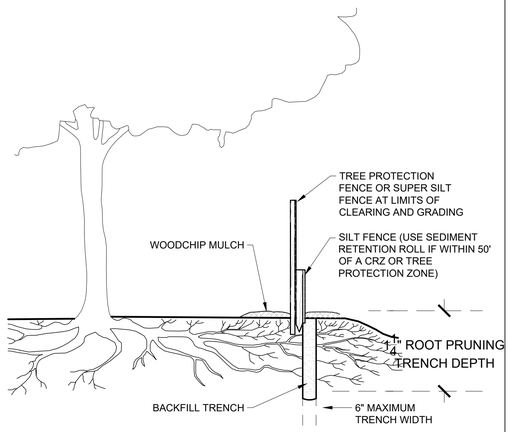
S:\310\57972.002-Miller Park Pool\DWG\Sheet\CD\57972.002-103-C2.00-EROS.dwg | Plotted on 7/14/2026 2:27 PM | by Kayla Ufer



TREE PROTECTION FENCE & ROOT PRUNING

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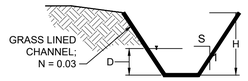


TYPICAL DITCH CHANNEL SECTION

NOTES:

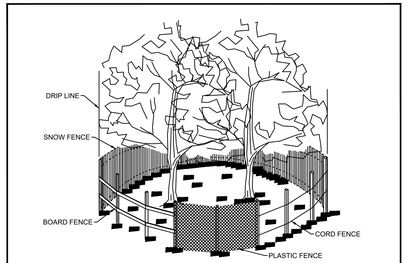
1. FLOW CALCULATED VIA THE RATIONAL METHOD WITH A TIME OF CONCENTRATION OF 5 MINUTES

Channel Calculation Summary

Section	Area (AC)	C	Q_2 CFS	Q_{10} CFS	S (ft)	W(ft)	H (ft)	Slope (%) (Min,Max)	Velocity (ft/s) - 2 yr	D (ft) - 10 yr
Proposed Swale										
A	0.27	0.6	6.075	8.09	3	1	1	1.5, 7.5	5.55	0.74

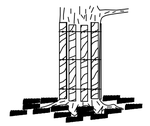
TYPICAL STORMWATER CHANNEL CROSS-SECTIONS

No Scale



CORRECT METHODS OF TREE FENCING

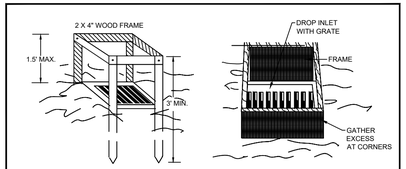
TRIANGULAR BOARD FENCE

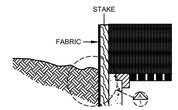


CORRECT TRUNK ARMORING

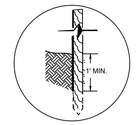
FENCING AND ARMORING

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY v1.1 SOURCE: VA. DSWC C-SSM-01-2





ELEVATION OF STAKE AND FABRIC ORIENTATION



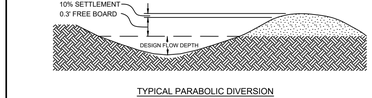
DETAIL A

SPECIFIC APPLICATION

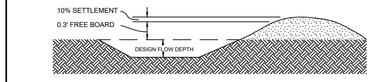
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 5%) WHERE THE INLET SHEET OR OVERLAND FLOWS (NOT EXCEEDING 1 C.F.S.) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

SILT FENCE DROP INLET PROTECTION

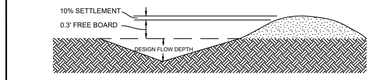
VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY v1.1 SOURCE: NC ESC DESIGN MAN. C-SCM-04-1



TYPICAL PARABOLIC DIVERSION



TYPICAL TRAPEZOIDAL DIVERSION



TYPICAL VEE-SHAPED DIVERSION

DIVERSION CROSS-SECTIONS

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY v1.1 SOURCE: VA. DSWC C-ECM-05-1

2.

TABLE 3.32-D
SITE SPECIFIC SEEDING MIXTURES FOR PIEDMONT AREA

	TOTAL LBS. PER ACRE
MINIMUM CARE LAWN	
COMMERCIAL OR RESIDENTIAL	175-200 LBS.
KENTUCKY 31 OR TURF-TYPE TALL FESCUE	90-100%
IMPROVED PERENNIAL RYEGRASS	0-5%
KENTUCKY BLUEGRASS	0-5%
GENERAL SLOPE (3:1 OR LESS)	
KENTUCKY 31 FESCUE	128 LBS.
RED TOP GRASS	2 LBS.
SEASONAL NURSE CROP *	20 LBS.
	150 LBS.
LOW-MAINTENANCE SLOPE (STEEPER THAN 3:1)	
* SEE SLOPE STABILIZATION SEED MIX	

* USE SEASONAL NURSE CROP IN ACCORDANCE WITH SEEDING DATES AS STATED BELOW:
- FEBRUARY 16TH THROUGH APRIL..... ANNUAL RYE
- MAY 1ST THROUGH AUGUST 15TH..... FOXTAIL MILLET
- AUGUST 16TH THROUGH OCTOBER..... ANNUAL RYE
- NOVEMBER THROUGH FEBRUARY 15TH..... WINTER RYE

** SUBSTITUTE SERICEA LESPEDEZA FOR CROWNVETCH EAST OF FARMVILLE, VA (MAY THROUGH SEPTEMBER USE HULLED SERICEA, ALL OTHER PERIODS, USE UNHULLED SERICEA). IF FLATPEA IS USED IN LIEU OF CROWNVETCH, INCREASE RATE TO 30 LBS./ACRE. ALL LEGUME SEED MUST BE PROPERLY INOCULATED. WEEPING LOVEGRASS MAY BE ADDED TO ANY SLOPE OR LOW-MAINTENANCE MIX DURING WARMER SEEDING PERIODS; ADD 10-20 LBS./ACRE IN MIXES.

NOTE: FOR FINAL STABILIZATION MEASURES, REFER TO THE LANDSCAPE PLANS

PS C-SCM-10

PERMANENT SEEDING MIX FOR PIEDMONT AREA

No Scale

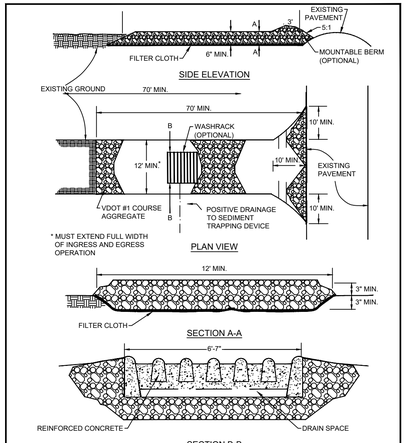
TABLE 3.31-B
ACCEPTABLE TEMPORARY SEEDING PLANT MATERIALS
"QUICK REFERENCE FOR ALL REGIONS"

PLANTING DATES	SPECIES	RATE (LBS./ACRE)
SEPT. 1 - FEB. 15	50/50 MIX OF ANNUAL RYEGRASS (LOLIUM MULTI-FLORUM) & CEREAL (WINTER) RYE (SECALE CEREALE)	50-100
FEB. 16 - APR. 30	ANNUAL RYEGRASS (LOLIUM MULTI-FLORUM)	60-100
MAY 1 - AUG. 31	GERMAN MILLET (SETARIA ITALICA)	50

TS C-SCM-09

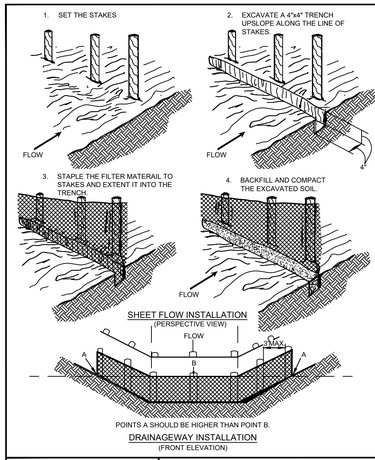
TEMPORARY SEEDING PLANT MATERIALS

No Scale



STONE CONSTRUCTION ENTRANCE

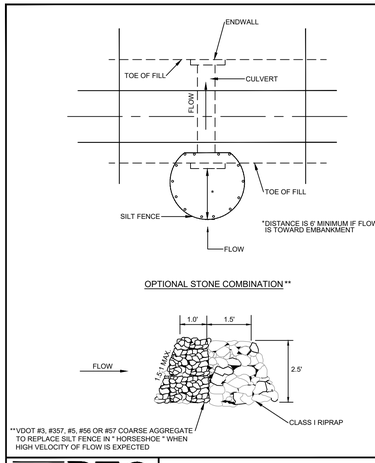
VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY v1.1 SOURCE: VA. DSWC, MD ESC STDS C-SCM-03-1



CONSTRUCTION OF SILT FENCE WITHOUT WIRE SUPPORT

SOURCE: ADAPTED FROM STRAW & FAB. BARRIERS, SHERWOOD & WYANT

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY v1.1 C-PCM-04-2B



**VDOT #3, #357, #5, #56 OR #57 COARSE AGGREGATE TO REPLACE SILT FENCE IN * HORSESHOE " WHEN HIGH VELOCITY OF FLOW IS EXPECTED

SILT FENCE CULVERT INLET PROTECTION

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY v1.1 SOURCE: VA. DSWC, VDOT C-SCM-05-1

COMMONWEALTH OF VIRGINIA
06/26/2026
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DATE 06/26/2026
DRAWN BY K. UFER
DESIGNED BY K. BARGER
CHECKED BY J. BRODIE
SCALE

TIMMONS GROUP

MILLER PARK POOL
THE CITY OF LYNCHBURG
EROSION AND SEDIMENT CONTROL DETAILS

JOB NO. 57972.002
SHEET NO. C3.01

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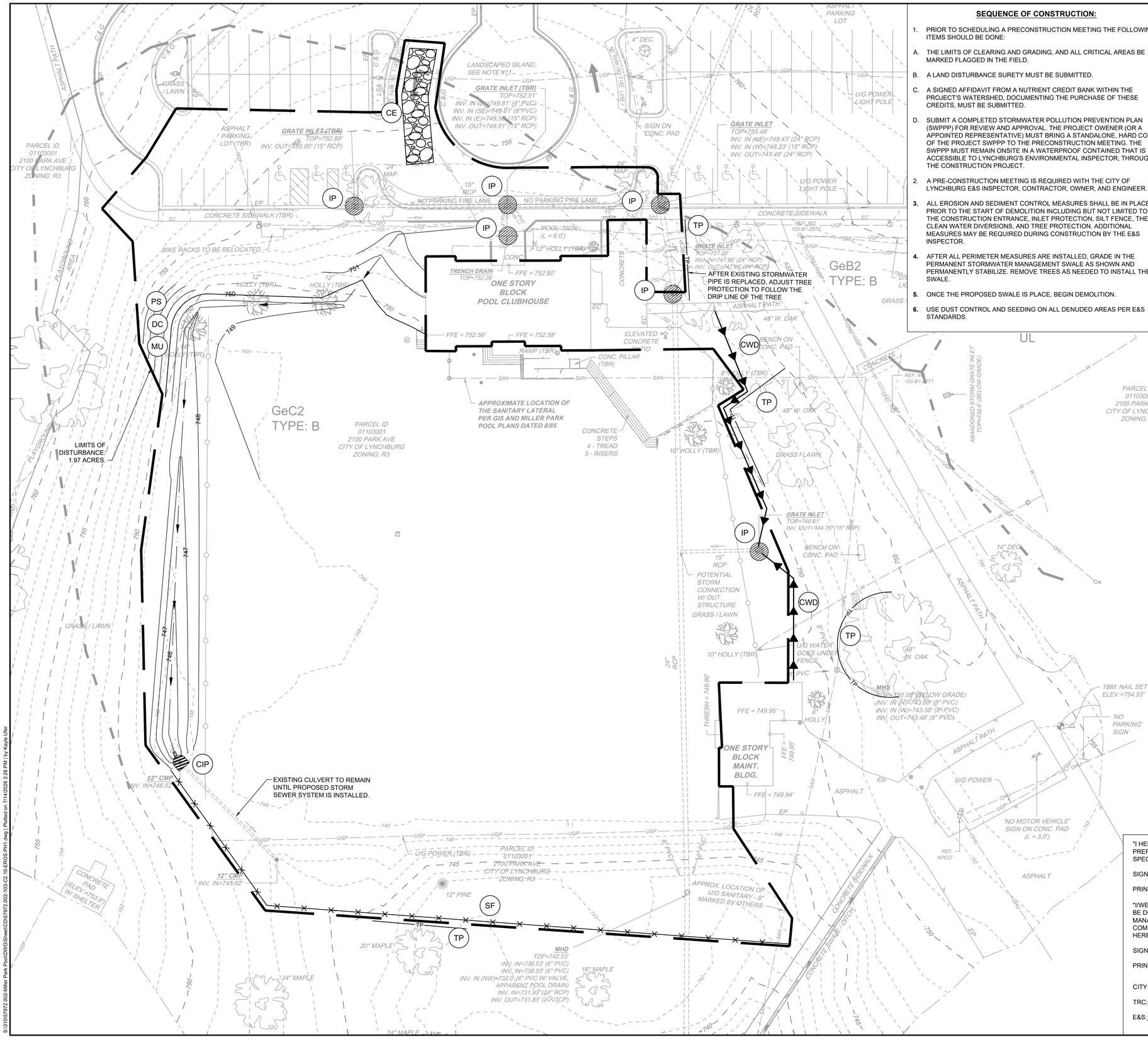

SEQUENCE OF CONSTRUCTION:

1. PRIOR TO SCHEDULING A PRECONSTRUCTION MEETING THE FOLLOWING ITEMS SHOULD BE DONE:

A. THE LIMITS OF CLEARING AND GRADING, AND ALL CRITICAL AREAS BE MARKED FLAGGED IN THE FIELD.

B. A LAND DISTURBANCE SURETY MUST BE SUBMITTED.

C. A SIGNED AFFIDAVIT FROM A NUTRIENT CREDIT BANK WITHIN THE PROJECT'S WATERSHED, DOCUMENTING THE PURCHASE OF THESE CREDITS, MUST BE SUBMITTED.

D. SUBMIT A COMPLETED STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR REVIEW AND APPROVAL. THE PROJECT OWENER (OR A APPOINTED REPRESENTATIVE) MUST BRING A STANDALONE, HARD COPY OF THE PROJECT SWPPP TO THE PRECONSTRUCTION MEETING. THE SWPPP MUST REMAIN ONSITE IN A WATERPROOF CONTAINED THAT IS ACCESSIBLE TO LYNCHBURG'S ENVIRONMENTAL INSPECTOR, THROUGH THE CONSTRUCTION PROJECT.

2. A PRE-CONSTRUCTION MEETING IS REQUIRED WITH THE CITY OF LYNCHBURG E&S INSPECTOR, CONTRACTOR, OWNER, AND ENGINEER.

3. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE START OF DEMOLITION INCLUDING BUT NOT LIMITED TO: THE CONSTRUCTION ENTRANCE, INLET PROTECTION, SILT FENCE, THE CLEAN WATER DIVERSIONS, AND TREE PROTECTION. ADDITIONAL MEASURES MAY BE REQUIRED DURING CONSTRUCTION BY THE E&S INSPECTOR.

4. AFTER ALL PERIMETER MEASURES ARE INSTALLED, GRADE IN THE PERMANENT STORMWATER MANAGEMENT SWALE AS SHOWN AND PERMANENTLY STABILIZE. REMOVE TREES AS NEEDED TO INSTALL THE SWALE.

5. ONCE THE PROPOSED SWALE IS PLACE, BEGIN DEMOLITION.

6. USE DUST CONTROL AND SEEDING ON ALL DENUDED AREAS PER E&S STANDARDS.

EROSION CONTROL LEGEND

	LIMITS OF CLEARING AND GRADING	-
	DRAINAGE DIVIDE	-
CE	CONSTRUCTION ENTRANCE	C-SCM-03
SF	SILT FENCE	C-PCM-04
CWD	CLEAN WATER DIVERSION	C-ECM-07
TP	TREE PROTECTION	C-SSM-01
TS	TEMPORARY SEEDING	C-SSM-09
PS	PERMANENT SEEDING	C-SSM-10
MU	MULCHING	C-SSM-11
DC	DUST CONTROL	C-SCM-01
IP	INLET PROTECTION	C-SCM-04
CIP	CULVERT INLET PROTECTION	C-SCM-05

GENERAL NOTES:

A. REFER TO SHEET C3.00 FOR EROSION AND SEDIMENT CONTROL GENERAL NOTES AND NARRATIVE. REFER TO SHEET C3.01 FOR ESC DETAILS.

B. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO DEMOLITION AND REMAIN IN PLACE UNTIL ALL UPSTREAM AREAS HAVE BEEN PERMANENTLY STABILIZED WITH SUFFICIENT GRASS COVER TO ELIMINATE EROSION OR ARE REPLACED BY OTHER MEASURES.

C. EROSION AND SEDIMENT CONTROL MINIMUM STANDARDS (MS-1 THROUGH MS-19) SHALL BE FOLLOWED AT ALL TIMES.

D. ALL CONSTRUCTION TRAFFIC SHALL ENTER AND EXIT THE SITE USING THE APPROVED CONSTRUCTION ENTRANCE.

E. REMOVE AND AND DISPOSE OF ALL MATERIAL IN A LAWFUL MANNER. ALL OFFSITE AREAS USED FOR HAULING SOILS SHALL HAVE AN APPROVED EROSION AND SEDIMENT CONTROL PLAN AND LAND DISTURBING PERMIT.

F. UTILIZE TEMPORARY SEEDING, STRAW MULCHING, AND DUST CONTROL FOR ALL EXPOSED AREAS DURING CONSTRUCTION.

G. PERIMETER CONTROLS SHALL COINCIDE WITH THE LOD IN FIELD CONDITIONS; CONTROLS ARE SHOWN OFFSET FOR PLAN READABILITY.

H. GRADING WILL BE LIMITED TO FIFTEEN (15) TO TWENTY (20) ACRE PHASES WITH CUT AND FILL AREAS BALANCED BETWEEN PHASES, AS INDICATED ON THIS PHASE 1 EROSION CONTROL PLAN. EACH PHASE OF THE PROJECT MUST BE STABILIZED IN ACCORDANCE WITH THE MEASURES IDENTIFIED ON THE SITE PLAN PRIOR TO INITIATING A SUBSEQUENT GRADING PHASE OF THE PROJECT.

I. IT IS THE INTENT OF THIS PHASE 1 EROSION AND CONTROL PLAN TO INDICATE THE EROSION CONTROL MEASURES REQUIRED FOR THE INITIAL CLEARING AND GRADING OF THE PROJECT SITE. ADDITIONAL REVIEW AND APPROVAL BY THE CITY OF LYNCHBURG IS REQUIRED FOR FINAL SITE PLAN APPROVAL PRIOR TO FINAL GRADING, INSTALLATION OF POST-CONSTRUCTION STORMWATER MEASURES, UTILITY INSTALLATIONS, SITE CONSTRUCTION AND/OR BUILDING IMPROVEMENTS. NO LAND DISTURBANCE WORK WILL BE ALLOWED OUTSIDE THE SCOPE OF THIS PHASE 1 PLAN UNTIL FINAL SITE PLAN APPROVAL IS ISSUED FOR THE PROJECT.

J. THE CONTRACTOR SHALL ENSURE THAT THERE IS POSITIVE DRAINAGE FROM THE EXISTING BUILDINGS AT ALL TIMES DURING CONSTRUCTION.

"I HEREBY CERTIFY THAT, TO THE BEST OF MY ABILITY, THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE LATEST CITY OF LYNCHBURG MANUAL OF SPECIFICATIONS AND STANDARD DETAILS AND CITY CODE."

SIGNATURE:_____ TITLE:_____

PRINTED NAME AND TITLE:_____ DATE:_____

"I/WE HEREBY CERTIFY THAT ALL SITE CONSTRUCTION, DRAINAGE, AND GRADING WILL BE DONE PURSUANT TO THIS PLAN AND THAT THE APPLICABLE STORMWATER MANAGEMENT CONDITIONS AND REQUIREMENTS OF THE CITY OF LYNCHBURG, THE COMMONWEALTH OF VIRGINIA AND THE FEDERAL GOVERNMENT AND ITS AGENCIES ARE HEREBY MADE PART OF THIS PLAN"

SIGNATURE:_____ TITLE:_____

PRINTED NAME:_____ DATE:_____

CITY ENGINEER:_____ DATE:_____

TRC:_____ DATE: _____

E&S:_____ DATE:_____

COMMONWEALTH OF VIRGINIA
06/26/2026
JOHNATHAN C. BRODIE
Lic. No. 053540
PROFESSIONAL ENGINEER

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TIMMONS GROUP

REVISION DESCRIPTION

DATE

DATE: 06/26/2026
DRAWN BY: K. UFER
DESIGNED BY: K. BARGER
CHECKED BY: J. BRODIE
SCALE: 1" = 20'

MILLER PARK POOL
THE CITY OF LYNCHBURG
EROSION AND SEDIMENT CONTROL PHASE 1

JOB NO. 57972.002
SHEET NO. C3.02

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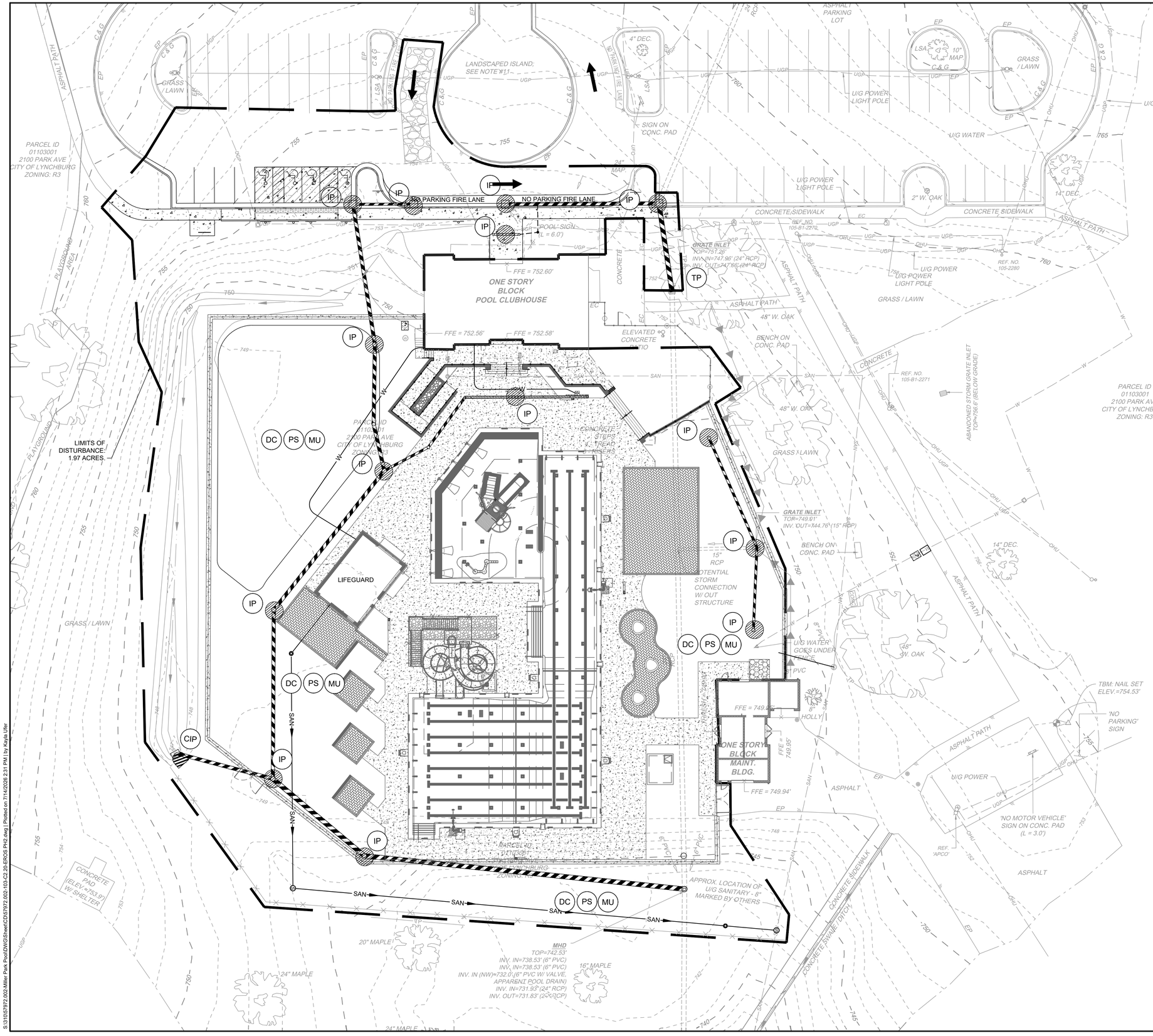

EROSION CONTROL LEGEND

	LIMITS OF CLEARING AND GRADING	-
	DRAINAGE DIVIDE	-
CE	CONSTRUCTION ENTRANCE	C-SCM-03
SF	SILT FENCE	C-PCM-04
CWD	CLEAN WATER DIVERSION	C-ECM-07
TP	TREE PROTECTION	C-SSM-01
TS	TEMPORARY SEEDING	C-SSM-09
PS	PERMANENT SEEDING	C-SSM-10
MU	MULCHING	C-SSM-11
DC	DUST CONTROL	C-SCM-01
IP	INLET PROTECTION	C-SCM-04
CIP	CULVERT INLET PROTECTION	C-SCM-05

GENERAL NOTES:

A. REFER TO SHEET C3.00 FOR EROSION AND SEDIMENT CONTROL NOTES, NARRATIVE, AND SEQUENCE OF CONSTRUCTION. REFER TO SHEET C3.01 FOR DETAILS.

B. PHASE 1 EROSION AND SEDIMENT CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL ALL UPSTREAM AREAS HAVE BEEN PERMANENTLY STABILIZED WITH SUFFICIENT GRASS COVER TO ELIMINATE EROSION OR ARE REPLACED BY OTHER MEASURES.

C. EROSION AND SEDIMENT CONTROL MINIMUM STANDARDS (MS-1 THROUGH MS-19) SHALL BE FOLLOWED AT ALL TIMES.

D. ALL CONSTRUCTION TRAFFIC SHALL ENTER THE SITE USING THE APPROVED CONSTRUCTION ENTRANCE.

E. UTILIZE TEMPORARY SEEDING, STRAW MULCHING, AND DUST CONTROL FOR ALL EXPOSED AREAS DURING CONSTRUCTION.

F. PERMANENT SEEDING SHALL BE MAINTAINED ACROSS ALL AREAS THAT ARE NOT ACTIVELY BEING WORKED ON.

G. ALL RUNOFF SHALL BE DIRECTED TOWARD INLET PROTECTION ON INSTALLED INLETS. PLACE DIVERSION DIKES SUCH THAT NO MORE THAN 1 ACRE OF DISTURBED AREA IS BEING TREATED BY ANY SINGLE INLET PROTECTION. ADDITIONAL DIVERSION DIKES AND/OR CHANNELS NOT SHOWN ON THE PLANS MAY BE REQUIRED BASED ON INTERMEDIATE CONSTRUCTION AND GRADING SEQUENCE.

H. INSTALL STONE DIVERSIONS ACROSS THE EXISTING PAVEMENT TO DIRECT WATER TO THE INLET PROTECTION. SILT DIKE OR SIMILAR MEASURE MAY BE USED IN PLACE OF STONE DIVERSION. CONSTRUCTION TRAFFIC SHOULD NOT DRIVE OVER LOCATIONS MARKED WITH RWD.

I. BUILDING PADS SHALL BE TEMPORARILY SEEDED IF NOT BEING ACTIVELY WORKED ON. THE BUILDING CONTRACTOR WILL BE RESPONSIBLE FOR ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SURROUNDING EACH BUILDING AND FOR PERMANENTLY STABILIZING AROUND EACH BUILDING.

SEQUENCE OF CONSTRUCTION:

1. MAINTAIN ESC MEASURES FROM PHASE 1 AS SHOWN ON THE PLANS.
2. AFTER DEMOLITION IS COMPLETE, BEGIN GRADING OF THE SITE AND INSTALLING ALL HARDSCAPES. APPLY PERMANENT STABILIZATION CONSISTING OF TOPSOIL, PERMANENT SEEDING, AND STRAW MULCH TO THE AREA WITHIN SEVEN DAYS AFTER REACHING FINAL GRADE.
3. INLET PROTECTION SHALL BE PLACE IN NEW INLETS AS THEY ARE INSTALLED.
4. ALL STORMWATER PIPES AND STRUCTURES SHALL BE CLEANED AND BLOWN OUT OF ALL SEDIMENT BUILD UP.
5. ONCE THE SITE WORK IS FINALIZED AND ALL FINAL STABILIZATION MEASURES ARE IN PLACE, NOTIFY THE INSPECTORS FOR FINAL INSPECTION.
6. ONCE APPROVAL IS ACQUIRED FROM THE INSPECTOR AND ALL UPSTREAM AREAS HAVE BEEN ESTABLISHED VEGETATION, ALL REMAINING EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS.
7. REMOVE ALL EQUIPMENT, CONSTRUCTION MATERIALS AND DEBRIS FROM THE SITE.
8. PROVIDE ALL APPROPRIATE INFORMATION NEEDED TO CLOSE OUR THE LAND DISTURBANCE PERMIT AND THE VSMP CONSTRUCTION GENERAL PERMIT WITH THE CITY OF LYNCHBURG.

COMMONWEALTH OF VIRGINIA
06/26/2026
JOHNATHAN C. BRODIE
Lic. No. 053540
PROFESSIONAL ENGINEER

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DATE 06/26/2026
DRAWN BY K. UFER
DESIGNED BY K. BARGER
CHECKED BY J. BRODIE
SCALE 1" = 20'

TIMMONS GROUP

MILLER PARK POOL
THE CITY OF LYNCHBURG
EROSION AND SEDIMENT CONTROL PHASE 2

JOB NO. 57972.002
SHEET NO. C3.03

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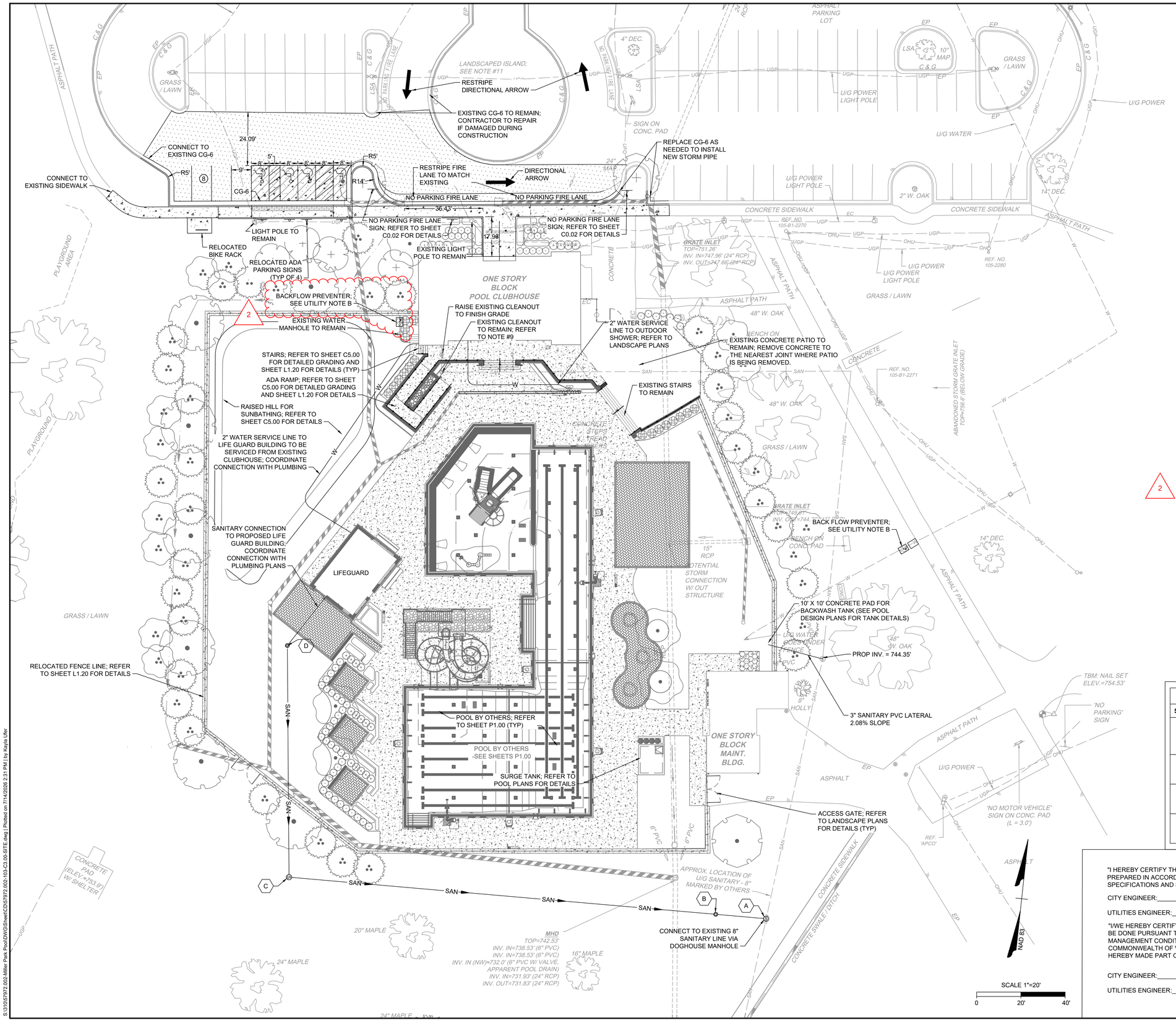

HATCH LEGEND

- CONCRETE SIDEWALK SECTION
- HEAVY DUTY CONCRETE SECTION
- ASPHALT PAVEMENT SECTION

SITE LAYOUT NOTES:

1. ALL DIMENSIONS ARE FROM THE FACE OF CURB, UNLESS NOTED OTHERWISE.
2. VDOT STANDARD DETAILS, AS REFERENCED, TO BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT VERSION OF VDOT "ROAD AND BRIDGE STANDARDS".
3. ALL CURB AND GUTTER IS TO BE VDOT STANDARD CURB AND GUTTER.
4. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL SIGNS AND STRIPING SHOWN ON THE PLANS.
5. PAVEMENT STRIPING AND TRAFFIC SIGNAGE TO BE PER MUTCD STANDARDS.
6. THIS PLAN ASSUMES ALL EXISTING BUILDING LATERALS ARE ADEQUATE AND UPGRADES ARE NOT PROPOSED.
7. SEE POOL DESIGN PLANS FOR ADDITIONAL INFORMATION, LAYOUT, AND DETAILS OF POOL FEATURES AND POOL SPECIFIC UTILITIES.
8. REFER TO LANDSCAPE PLANS FOR ALL HARDSCAPE AND SITE ITEMS WITHIN THE POOL DECK.
9. EXISTING UTILITIES ARE NOT SHOWN WITHIN THE POOL DECK AREA. WATER AND SANITARY SERVICE LATERALS TO THE CLUBHOUSE AND MAINTENANCE BUILDING ARE TO REMAIN. CONTRACTOR TO ADJUST ASSOCIATED STRUCTURES TO MATCH THE FINAL GRADE. CONTRACTOR TO ALERT THE ENGINEER IF ANY CONFLICTS ARISE.

PAVEMENT MARKING NOTES:

A. DO NOT PAINT INSIDE OF THE GUTTER PAN IN ANY AREA.

B. PAINT SHALL BE TYPE A, WATER EMULSION BASE, TRAFFIC PAINT CONFORMING TO THE REQUIREMENTS OF SECTION 704 OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS AND FEDERAL SPECIFICATION TT-P-1952. COLOR SHALL BE WHITE UNLESS OTHERWISE INDICATED.

UTILITY NOTES:

A. ALL PUBLIC INFRASTRUCTURE SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF LYNCHBURG MANUAL OF SPECIFICATIONS AND STANDARD DETAILS.

B. BACKFLOW PREVENTER SHALL BE INSTALLED PER THE CITY OF LYNCHBURG GUIDELINES ON TOP OF A CONCRETE PAD, AND PLACED WITHIN A HOT BOX. THE BACKFLOW PREVENTER SHALL BE PLACED BETWEEN THE WATER METER AND THE SITE. CONTRACTOR TO VERIFY FINAL LOCATION.

POOL DRAIN NOTE: A POOL DRAIN IS NOT INCLUDED WITH THIS DESIGN. IF THE POOL IS TO BE DRAINED, A PUMP WILL BE UTILIZED AND THE HOSE SHALL BE CONNECTED TO THE SANITARY SEWER CLEANOUT B OR MANHOLE A. IT IS NO PERMITTED TO DRAIN THE POOL TO THE STORM SEWER SYSTEM.

SANITARY SEWER PIPE TABLE

PIPE NAME	SIZE	LENGTH	SLOPE	BEARING
D-BLDG	6"	27.63 LF	1.00%	S32° 07' 29"W
C-D	6"	104.62 LF	2.27%	S6° 36' 47"E
B-C	6"	193.52 LF	1.00%	N88° 46' 26"E
A-B	6"	22.87 LF	2.00%	N88° 46' 26"E

SANITARY SEWER STRUCTURE SCHEDULE

STRUCTURE NAME	STRUCTURE DETAILS	NORTHING	EASTING
A 48" Manhole	TOP = 742.59 INV IN = 735.72 (N) INV IN = 735.82 (W) INV OUT = 735.72 (S)	3670969.02	11290711.15
B 6 " Cleanout	TOP = 741.70 INV IN = 736.89 (W) INV OUT = 736.28 (E)	3670968.53	11290688.29
C 48" Manhole	TOP = 745.96 INV IN = 738.92 (N) INV OUT = 738.82 (E)	3670964.39	11290494.82
D 6 " Cleanout	TOP = 748.97 INV IN = 745.58 (NE) INV OUT = 741.30 (S)	3671068.32	11290482.77

"I HEREBY CERTIFY THAT, TO THE BEST OF MY ABILITY, THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE LATEST CITY OF LYNCHBURG MANUAL OF SPECIFICATIONS AND STANDARD DETAILS AND CITY CODE."

CITY ENGINEER:_____ DATE:_____

UTILITIES ENGINEER:_____ DATE: _____

"I/WE HEREBY CERTIFY THAT ALL SITE CONSTRUCTION, DRAINAGE, AND GRADING WILL BE DONE PURSUANT TO THIS PLAN AND THAT THE APPLICABLE STORMWATER MANAGEMENT CONDITIONS AND REQUIREMENTS OF THE CITY OF LYNCHBURG, THE COMMONWEALTH OF VIRGINIA AND THE FEDERAL GOVERNMENT AND ITS AGENCIES ARE HEREBY MADE PART OF THIS PLAN"

CITY ENGINEER:_____ DATE:_____

UTILITIES ENGINEER:_____ DATE: _____

COMMONWEALTH OF VIRGINIA
06/26/2026
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REVISION DESCRIPTION	DATE
ADDENDUM 2	07/15/2026

2 THROUGH OURS.
YOUR VISION

DATE 06/26/2026
DRAWN BY K. UFER
DESIGNED BY K. BARGER
CHECKED BY J. BRODIE
SCALE 1" = 20'

TIMMONS GROUP

MILLER PARK POOL
THE CITY OF LYNCHBURG
SITE AND UTILITY PLAN

JOB NO. 57972.002
SHEET NO. C4.00

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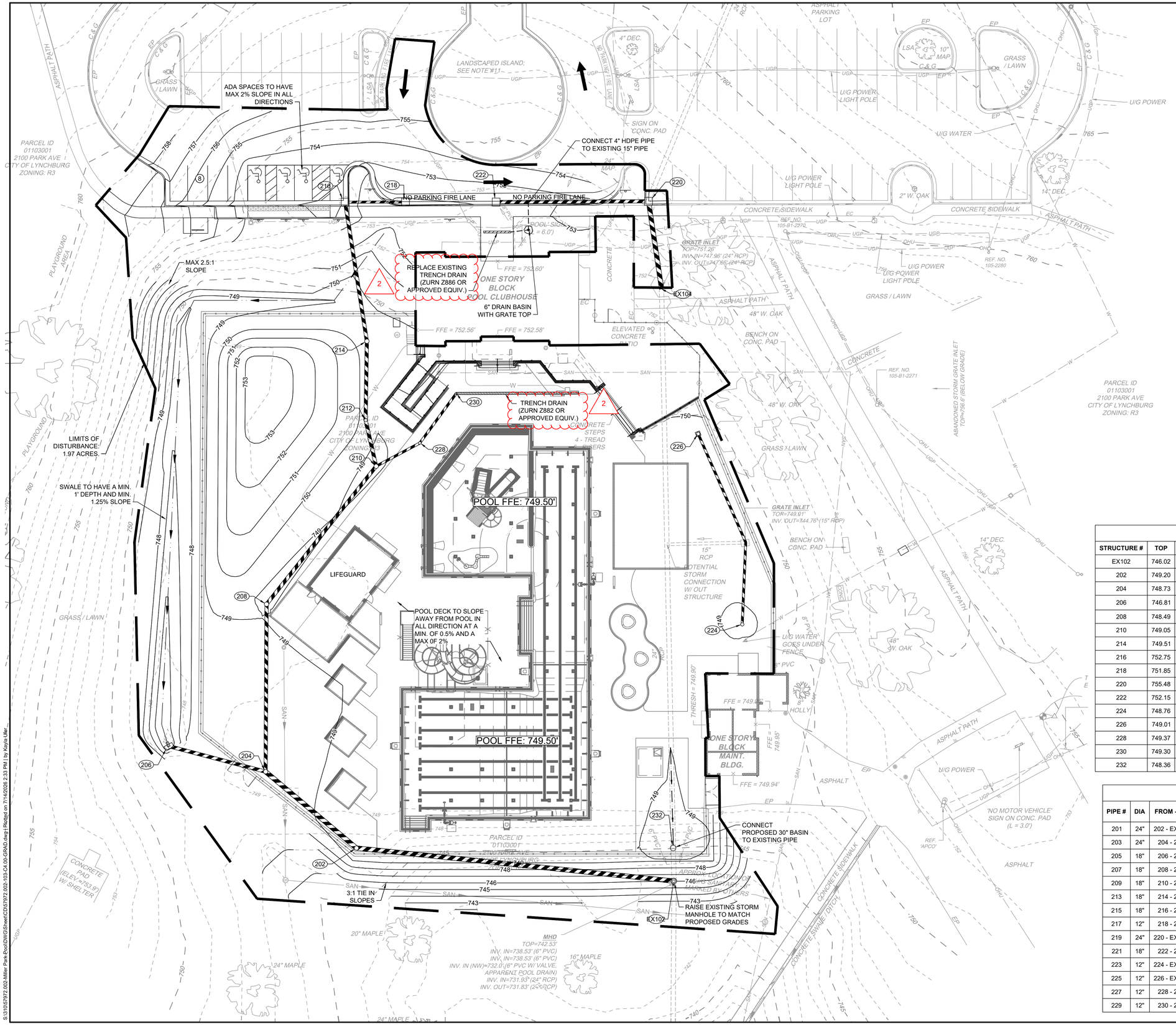

GENERAL GRADING NOTES:

1. ALL SIDEWALK SHALL BE CONSTRUCTED WITH NO MORE THAN A 2% (1:50) CROSS SLOPE AND SHALL HAVE A MAXIMUM LONGITUDINAL SLOW OF 5% (1:20).
2. ALL ADA SPACES AND LOADING ZONES SHALL HAVE A MAX 2% CROSS SLOPE IN ALL DIRECTIONS.
3. ALL SWALES SHALL HAVE A MINIMUM 1% SLOPE AND BE 1-FOOT DEEP.
4. REFER TO SHEETS C5.01 & C5.02 FOR SPOT GRADES.
5. THE POOL DECK SHALL HAVE A MAX 2% SLOPE IN ALL DIRECTIONS.

STORM STRUCTURE TABLE

STRUCTURE #	TOP	STRUCTURE HEIGHT	DESCRIPTION	NORTHING	EASTING
EX102	746.02	14.19'	MH-1	3670982.84	11290668.33
202	749.20	8.36'	15" BASIN W. GRATE	3670982.18	11290524.94
204	748.73	6.88'	24" BASIN W. GRATE	3671011.91	11290480.66
206	746.81	4.62'	EW-1 for 12" Pipe	3671018.65	11290436.06
208	748.49	5.78'	15" BASIN W. GRATE	3671086.82	11290472.95
210	749.05	5.46'	15" BASIN W. GRATE	3671153.83	11290515.20
214	749.51	5.19'	15" BASIN W. GRATE	3671209.28	11290504.98
216	752.75	6.80'	DI-2A	3671270.36	11290488.52
218	751.85	4.85'	DI-2A	3671273.39	11290515.48
220	755.48	7.42'	DI-2A	3671285.48	11290624.04
222	752.15	3.31'	DI-2A	3671277.75	11290555.95
224	748.76	3.53'	15" BASIN W. GRATE	3671100.89	11290686.45
226	749.01	3.62'	15" BASIN W. GRATE	3671183.94	11290657.52
228	749.37	4.65'	12" BASIN SOLID TOP	3671166.33	11290533.59
230	749.30	3.66'	TRENCH DRAIN	3671190.24	11290547.45
232	748.36	15.55'	30" BASIN W. GRATE	3670997.58	11290666.42

STORM PIPE TABLE

PIPE #	DIA	FROM - TO	UPSTREAM INVERT	DOWNSTREAM INVERT	SLOPE	LENGTH	DESCRIPTION
201	24"	202 - EX102	740.84	736.54	3.00%	143.39 LF	24" HDPE
203	24"	204 - 202	741.85	740.94	1.71%	53.34 LF	24" HDPE
205	18"	206 - 204	745.62	744.49	2.50%	45.10 LF	18" HDPE
207	18"	208 - 204	742.70	741.95	1.00%	75.31 LF	18" HDPE
209	18"	210 - 208	743.59	742.80	1.00%	79.21 LF	18" HDPE
213	18"	214 - 212	744.32	743.96	1.00%	35.51 LF	18" HDPE
215	18"	216 - 214	745.95	744.69	2.00%	63.26 LF	18" HDPE
217	12"	218 - 216	747.00	746.45	2.00%	27.13 LF	12" HDPE
219	24"	220 - EX104	748.06	747.66	1.00%	39.83 LF	24 inch RCP
221	18"	222 - 220	748.85	748.16	1.00%	68.53 LF	18 inch RCP
223	12"	224 - EX106	745.23	744.86	1.00%	36.96 LF	12" HDPE
225	12"	226 - EX106	745.39	744.86	1.00%	53.23 LF	12" HDPE
227	12"	228 - 210	744.71	744.49	1.00%	22.24 LF	12" HDPE
229	12"	230 - 228	745.64	745.36	1.00%	27.63 LF	12" HDPE

COMMONWEALTH OF VIRGINIA
06/26/2026
JOHNATHAN C. BRODIE
Lic. No. 053540
PROFESSIONAL ENGINEER

THIS DRAWING PREPARED AT THE
ROANOKE OFFICE
109 NORFOLK AVENUE, Suite 100 | ROANOKE, VA 24011
TEL 276.308.8255 WWW.TIMMONS.COM

YOUR VISION 2 THROUGH OURS.

REVISION DESCRIPTION	DATE
ADDENDUM 2	07/15/2026

DATE 06/26/2026
DRAWN BY K. UFER
DESIGNED BY K. BARGER
CHECKED BY J. BRODIE
SCALE 1" = 20'

TIMMONS GROUP

MILLER PARK POOL

THE CITY OF LYNCHBURG

GRADING AND DRAINAGE PLAN

JOB NO. 57972.002
SHEET NO. C5.00

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S:\31057\972.002-Miller Park-Pool\DWG\Sheet\C05\57972.002-103-C4.00-GRAD.dwg | Plotted on 7/14/2026 2:33 PM | by Kayla Ufer

GENERAL GRADING NOTES:

1. ALL SIDEWALK SHALL BE CONSTRUCTED WITH NO MORE THAN A 2% (1:50) CROSS SLOPE AND SHALL HAVE A MAXIMUM LONGITUDINAL SLOW OF 5% (1:20).
2. ALL ADA SPACES AND LOADING ZONES SHALL HAVE A MAX 2% CROSS SLOPE IN ALL DIRECTIONS.
3. ALL SWALES SHALL HAVE A MINIMUM 1% SLOPE AND BE 1-FOOT DEEP.
4. REFER TO SHEET C5.01 FOR SPOT GRADES.
5. THE POOL DECK SHALL HAVE A MAX 2% SLOPE IN ALL DIRECTIONS.

SPOT GRADE LEGEND:

- TC: TOP OF CURB
- TC-BC: FLUSH CURB
- ME: MATCH EXISTING
- SWK: SIDEWALK
- TS: TOP OF STAIRS
- BS: BOTTOM OF STAIRS
- TW: TOP OF WALL
- BW: BOTTOM OF WALL
- LP: LOW POINT

NO PARKING FIRE LANE

POOL FFE: 749.50'

SEE SHEET C502

SCALE 1"=10'

0 10' 20'

NAD 83

COMMONWEALTH OF VIRGINIA
06/26/2026
JOHNATHAN C. BRODIE
Lic. No. 053540
PROFESSIONAL ENGINEER

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TIMMONS GROUP

REVISION DESCRIPTION

DATE

DATE 06/26/2026
DRAWN BY K. UFER
DESIGNED BY K. BARGER
CHECKED BY J. BRODIE
SCALE 1" = 10'

MILLER PARK POOL

THE CITY OF LYNCHBURG

SPOT GRADE INSETS

JOB NO. 57972.002
SHEET NO. C5.01

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SEE SHEET C501

POOL FFE: 749.50'

POOL FFE: 749.50'

LIFEGUARD

FFE=749.50'

15" RCP

24" RCP

-25.00%

-10.00%

GENERAL GRADING NOTES:

1. ALL SIDEWALK SHALL BE CONSTRUCTED WITH NO MORE THAN A 2% (1:50) CROSS SLOPE AND SHALL HAVE A MAXIMUM LONGITUDINAL SLOW OF 5% (1:20).
2. ALL ADA SPACES AND LOADING ZONES SHALL HAVE A MAX 2% CROSS SLOPE IN ALL DIRECTIONS.
3. ALL SWALES SHALL HAVE A MINIMUM 1% SLOPE AND BE 1-FOOT DEEP.
4. REFER TO SHEET C5.01 FOR SPOT GRADES.
5. THE POOL DECK SHALL HAVE A MAX 2% SLOPE IN ALL DIRECTIONS.

SPOT GRADE LEGEND:

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- TC-BC: FLUSH CURB
- ME: MATCH EXISTING
- SWK: SIDEWALK
- TS: TOP OF STAIRS
- BS: BOTTOM OF STAIRS
- TW: TOP OF WALL
- BW: BOTTOM OF WALL
- LP: LOW POINT

SCALE 1"=10'

0 10' 20'

NAD 83

COMMONWEALTH OF VIRGINIA
06/26/2026
JOHNATHAN C. BRODIE
Lic. No. 053540
PROFESSIONAL ENGINEER

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YOUR VISION ACHIEVED THROUGH OURS.

REVISION DESCRIPTION	DATE

DATE: 06/26/2026
DRAWN BY: K. UFER
DESIGNED BY: K. BARGER
CHECKED BY: J. BRODIE
SCALE: 1" = 10'

TIMMONS GROUP

MILLER PARK POOL

THE CITY OF LYNCHBURG

SPOT GRADE INSETS

JOB NO. 57972.002
SHEET NO. C5.02

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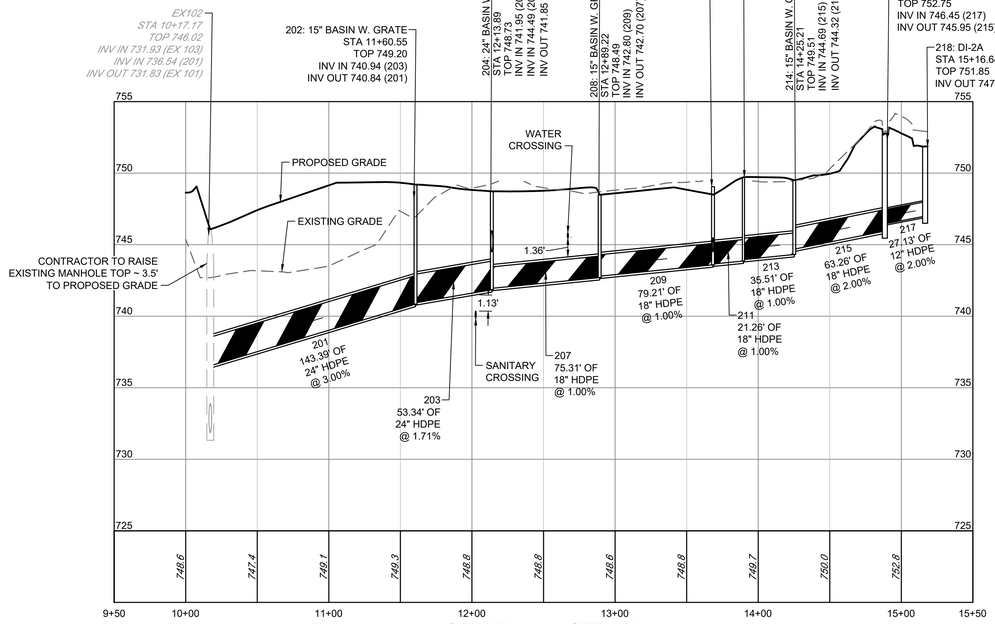
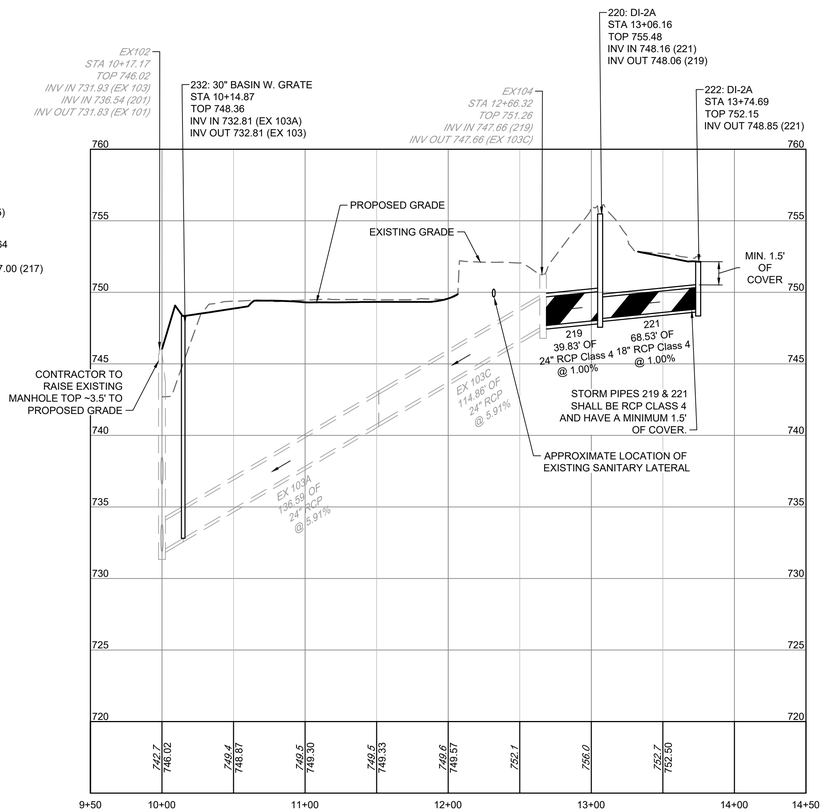


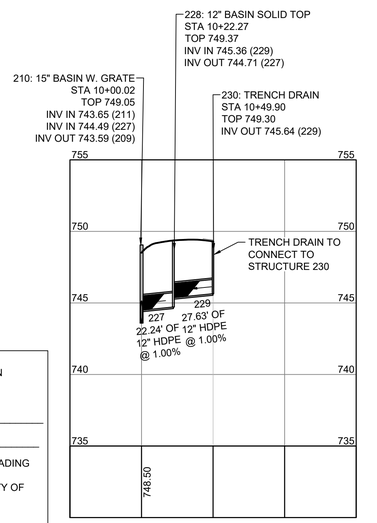
STR EX102 - STR118

HORIZ SCALE: 1"=50'
VERT SCALE: 1"=5'



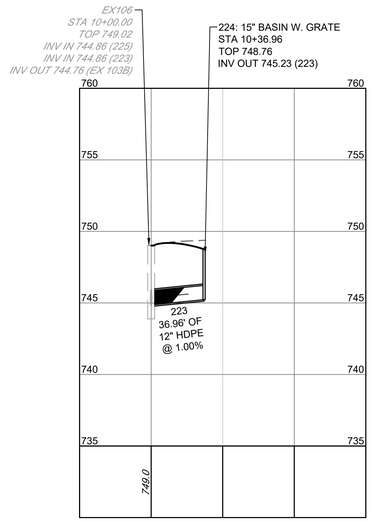
STR EX102 - STR 222

HORIZ SCALE: 1"=50'
VERT SCALE: 1"=5'



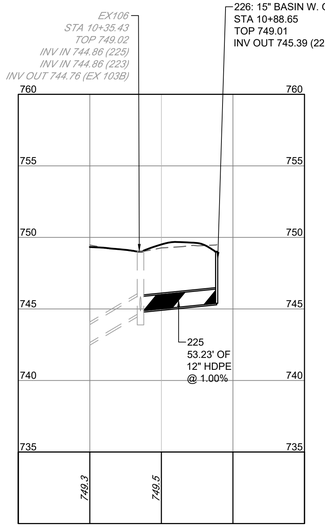
STR 210 - STR 230

HORIZ SCALE: 1"=50'
VERT SCALE: 1"=5'



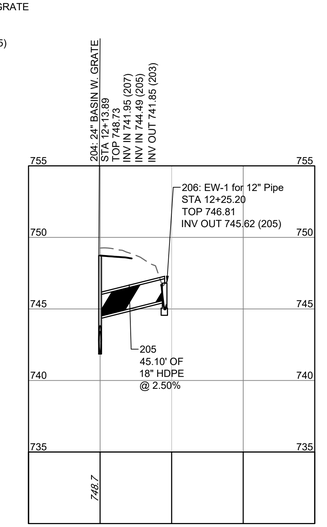
STR EX106 - STR 224

HORIZ SCALE: 1"=50'
VERT SCALE: 1"=5'



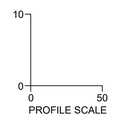
STR EX106 - STR226

HORIZ SCALE: 1"=50'
VERT SCALE: 1"=5'



STR 204 - STR 206

HORIZ SCALE: 1"=50'
VERT SCALE: 1"=5'



"I HEREBY CERTIFY THAT, TO THE BEST OF MY ABILITY, THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE LATEST CITY OF LYNCHBURG MANUAL OF SPECIFICATIONS AND STANDARD DETAILS AND CITY CODE."

CITY ENGINEER:_____ DATE:_____

UTILITIES ENGINEER:_____ DATE: _____

"I/WE HEREBY CERTIFY THAT ALL SITE CONSTRUCTION, DRAINAGE, AND GRADING WILL BE DONE PURSUANT TO THIS PLAN AND THAT THE APPLICABLE STORMWATER MANAGEMENT CONDITIONS AND REQUIREMENTS OF THE CITY OF LYNCHBURG, THE COMMONWEALTH OF VIRGINIA AND THE FEDERAL GOVERNMENT AND ITS AGENCIES ARE HEREBY MADE PART OF THIS PLAN"

CITY ENGINEER:_____ DATE:_____

UTILITIES ENGINEER:_____ DATE: _____

NOTES:

1. VERIFY ALL EXISTING UTILITY LOCATIONS AND DEPTH. ALERT THE ENGINEER IF THERE ARE ANY CONFLICTS.
2. DRY UTILITY CROSSINGS ARE NOT SHOWN; COORDINATE WITH DRY UTILITY PLANS.
3. INLET SHAPING (IS-1) IS SPECIFIED FOR ALL CONCRETE STRUCTURES.
4. WHERE PIPES AND STRUCTURES ARE PROPOSED IN FILL SECTION - 95% COMPACTION IS REQUIRED.
5. ALL DRAIN BASINS SHALL BE NYLOPLAST OR APPROVED EQUAL. ALL STORM STRUCTURES GREATER THAN 36" DEEP SHALL BE 48" MINIMUM IN SIZE.
6. FOR CURB INLETS ON GRADE, THE TOP ELEVATION IS SHOWN AT THE TOP OF THE CURB AT THE MOST DOWNSTREAM POINT ON THE STRUCTURE. FOR CURB INLETS IN SAG, THE TOP ELEVATION IS SHOWN AT THE TOP OF THE CURB IN THE MIDDLE OF THE STRUCTURE.
7. ALL PUBLIC INFRASTRUCTURE SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF LYNCHBURG MANUAL OF SPECIFICATIONS AND STANDARD DETAILS.

COMMONWEALTH OF VIRGINIA
06/26/2026
JOHNATHAN C. BRODIE
Lic. No. 053540
PROFESSIONAL ENGINEER

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109 NORFOLK AVENUE, SUITE 100 | ROANOKE, VA 24011
TEL 276.308.8255 WWW.TIMMONS.COM

YOUR VISION ACHIEVED THROUGH OURS.

TIMMONS GROUP

REVISION DESCRIPTION

DATE

DATE 06/26/2026
DRAWN BY K. UFER
DESIGNED BY K. BARGER
CHECKED BY J. BRODIE
SCALE

MILLER PARK POOL
THE CITY OF LYNCHBURG
STORM PROFILES

JOB NO. 57972.002
SHEET NO. C6.00

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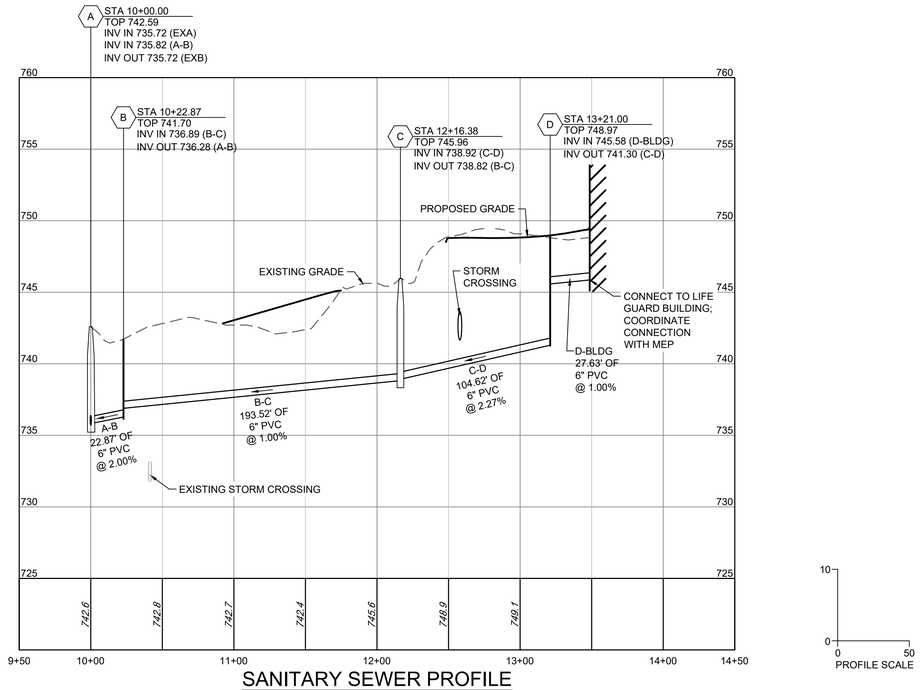

SANITARY SEWER PROFILE

HORIZ SCALE: 1"=50'
VERT SCALE: 1"=5'

NOTES

1. ALL PROPOSED SANITARY SEWER MANHOLES ARE TO BE INSTALLED WITH STANDARD MANHOLE COVERS.
2. ALL SANITARY SEWER MANHOLES ARE TO BE 4' IN UNLESS AN INSIDE DROP IS PROPOSED, THEN THE DIAMETER OF THE MANHOLE SHOULD BE 5'.
3. ALL PUBLIC INFRASTRUCTURE SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF LYNCHBURG MANUAL OF SPECIFICATIONS AND STANDARD DETAILS.

"I HEREBY CERTIFY THAT, TO THE BEST OF MY ABILITY, THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE LATEST CITY OF LYNCHBURG MANUAL OF SPECIFICATIONS AND STANDARD DETAILS AND CITY CODE."

CITY ENGINEER:_____ DATE:_____

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CITY ENGINEER:_____ DATE:_____

UTILITIES ENGINEER:_____ DATE: _____

COMMONWEALTH OF VIRGINIA
06/26/2026
JOHNATHAN C. BRODIE
Lic. No. 053540
PROFESSIONAL ENGINEER

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TEL 276.308.8255 WWW.TIMMONS.COM

YOUR VISION ACHIEVED THROUGH OURS.

TIMMONS GROUP

REVISION DESCRIPTION	DATE

DATE: 06/26/2026
DRAWN BY: K. UFER
DESIGNED BY: K. BARGER
CHECKED BY: J. BRODIE
SCALE:

MILLER PARK POOL

THE CITY OF LYNCHBURG

SANITARY PROFILES

JOB NO. 57972.002

SHEET NO. C6.10

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POWDER COATED BICYCLE RACK WITH IN-GROUND MOUNT

NO PARKING FIRE LANE

NO PARKING FIRE LANE

PARCEL ID 01103001 2100 PARK AVE CITY OF LYNCHBURG ZONING: R3

PLAYGROUND AREA

MAX 2.5:1 SLOPE

POOL CLUBHOUSE

P-101

SINGLE GATE FOR PEDESTRIAN ACCESS

EDGE OF NEW AND EXISTING CONCRETE (SEE CIVIL PLANS)

VARIABLE HEIGHT WALLS AND RAMP (SEE STRUCTURAL PLANS)

EX. CONCRETE (TO REMAIN)

F-101

K-101

GRASS BERM

EXISTING STAIRS (SEE CIVIL PLANS FOR MODIFICATIONS)

VARIABLE HEIGHT WALLS (SEE STRUCTURAL PLANS)

P-102

LIFEGUARD STATION

GRASS/OPEN SPACE AREA

P-104

W-103

MAIN POOL

POOL T.F.E. 749.50

POOL BY OTHERS -SEE SHEETS P1.00

EXISTING POOL HOUSE BUILDING

DOUBLE GATE (MAINTENANCE AND EMERGENCY ACCESS)

10'x12' SURGE TANK (SEE POOL DRAWINGS)

PROVIDE FLUSH CONDITION BETWEEN EXISTING PAVING AND NEW CONCRETE PAVING

3:1 TIE IN SLOPES

ASPHALT PARKING LOT

LANDSCAPED ISLAND SEE NOTE #11

GRASS / LAWN

48" W. OAK

14" DEC.

24" MAP.

10" MAP

20" MAPLE

24" MAPLE

16" MAPLE

8" HOLLY

NAD 83

SCALE 1"=20'

0 20' 40'

MATERIALS KEY

SYMBOL	CODE	DESCRIPTION	DETAIL
FENCE			
	F-101	POOL FENCING	7/L1.21
ROCK			
	K-101	DECORATIVE ROCK	10/L1.20
PAVING			
	P-101	CONCRETE PAVING	SEE CIVIL PLANS
	P-102	BRICK PAVING	3/L1.20
	P-104	REINFORCED CONCRETE	9/L1.20
WALL			
	W-103	BRICK SEAT WALL	5/L1.21

IMPERVIOUS SURFACE AREAS

PRE-DEVELOPMENT

IMPERVIOUS: .98 AC

POST-DEVELOPMENT

IMPERVIOUS: .95 AC

GRASS BERM

SOIL VOLUME (FILL)

TOTAL: 296 C.Y.

NOTE:
ALL MOVEABLE FURNITURE ARE SHOWN FOR CONVENIENCE ONLY AND ARE TO BE PROVIDED BY THE OWNER.

COMMONWEALTH OF VIRGINIA
Edwin Espino
EDWIN A. ESPINO
No. 2346
06/12/2026
LANDSCAPE ARCHITECT

NOT FOR CONSTRUCTION

THIS DRAWING PREPARED AT THE
CHARLOTTESVILLE OFFICE
608 Preston Avenue, Suite 200 | Charlottesville, VA 22903
TEL 434.295.5624 FAX 434.295.8317 www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS.

REVISION DESCRIPTION	DATE

DATE: 03/13/2026
DRAWN BY: M. RACHNER
DESIGNED BY: M. RACHNER
CHECKED BY: E. ESPINO
SCALE: 1" = 20'

TIMMONS GROUP

MILLER PARK POOL
THE CITY OF LYNCHBURG
SITE MATERIALS PLAN

JOB NO. 57972.002
SHEET NO. L1.00

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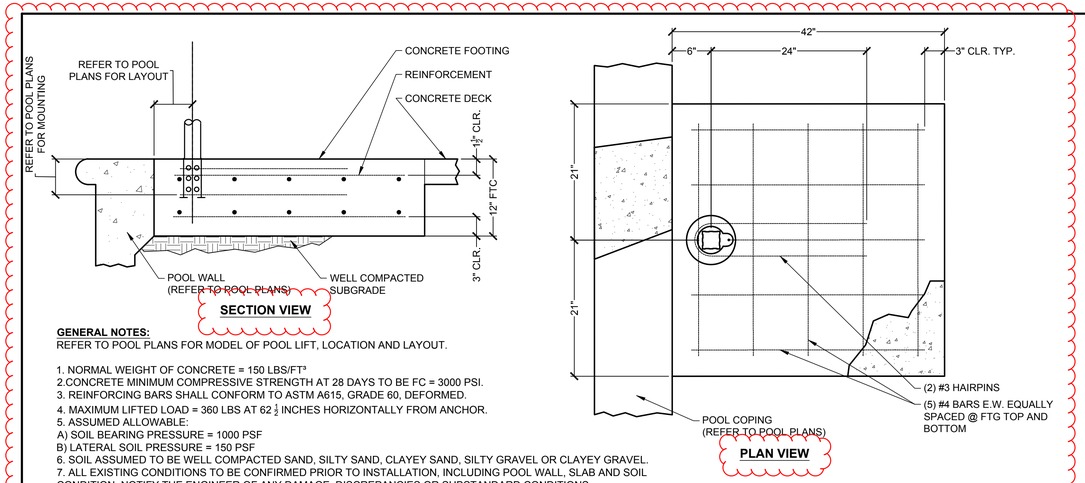
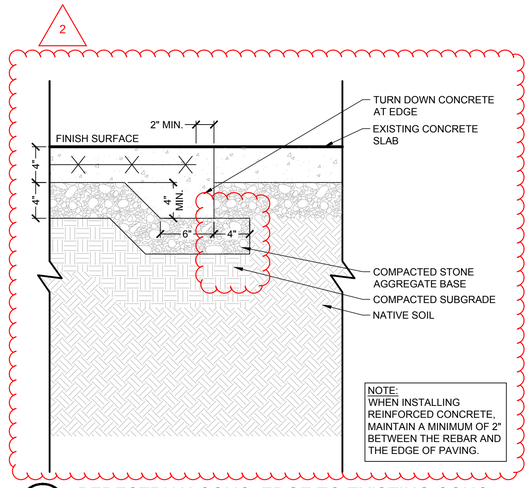


GENERAL NOTES:
REFER TO POOL PLANS FOR MODEL OF POOL LIFT, LOCATION AND LAYOUT.

1. NORMAL WEIGHT OF CONCRETE = 150 LBS/FT³
2. CONCRETE MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS TO BE FC = 3000 PSI.
3. REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED.
4. MAXIMUM LIFTED LOAD = 360 LBS AT 62 ½ INCHES HORIZONTALLY FROM ANCHOR.
5. ASSUMED ALLOWABLE:
A) SOIL BEARING PRESSURE = 1000 PSF
B) LATERAL SOIL PRESSURE = 150 PSF
6. SOIL ASSUMED TO BE WELL COMPACTED SAND, SILTY SAND, CLAYEY SAND, SILTY GRAVEL OR CLAYEY GRAVEL.
7. ALL EXISTING CONDITIONS TO BE CONFIRMED PRIOR TO INSTALLATION, INCLUDING POOL WALL, SLAB AND SOIL CONDITION. NOTIFY THE ENGINEER OF ANY DAMAGE, DISCREPANCIES OR SUBSTANDARD CONDITIONS.

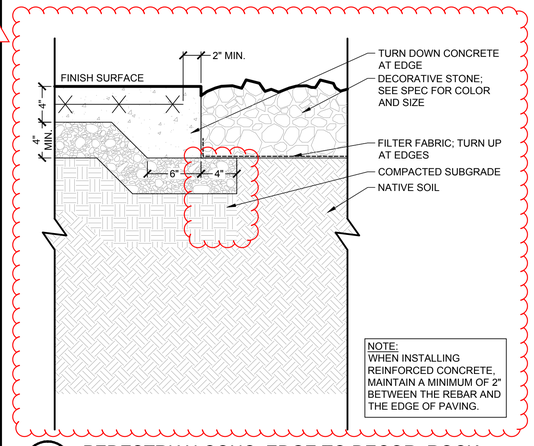
2

9 REINFORCED CONCRETE AT ADA POOL LIFT
NTS

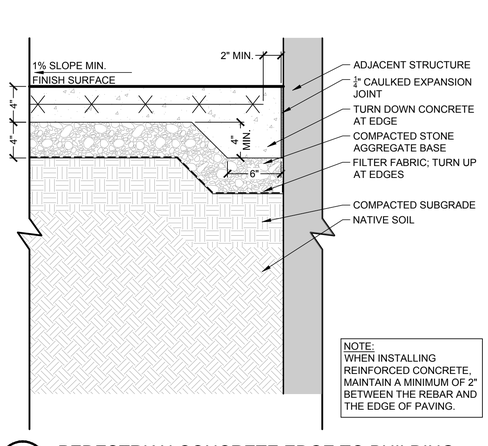


4 PEDESTRIAN CONC. EDGE TO EXISTING CONC.
1 1/2" = 1'-0"

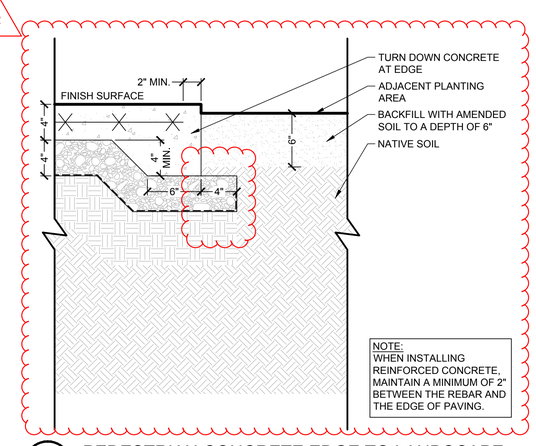
1 NOT USED



10 PEDESTRIAN CONC. EDGE TO DECOR. ROCK
1 1/2" = 1'-0"

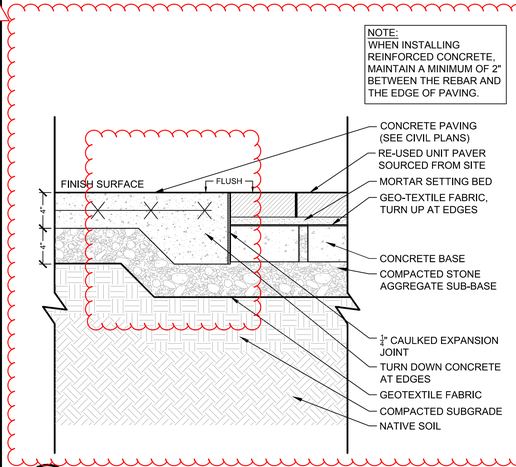


7 PEDESTRIAN CONCRETE EDGE TO BUILDING
1 1/2" = 1'-0"

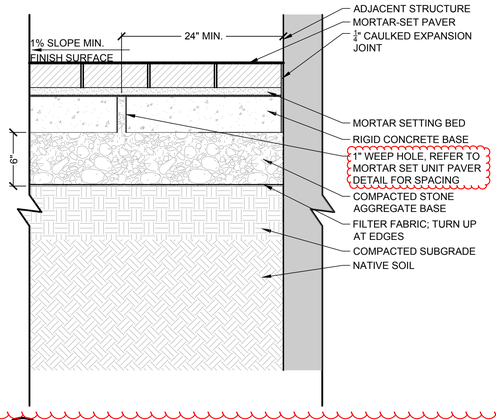


5 PEDESTRIAN CONCRETE EDGE TO LANDSCAPE
1 1/2" = 1'-0"

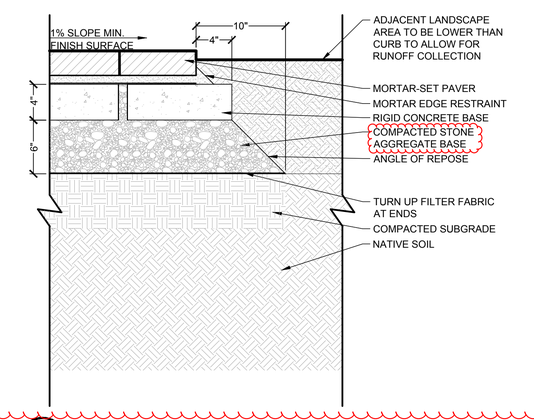
2 NOT USED



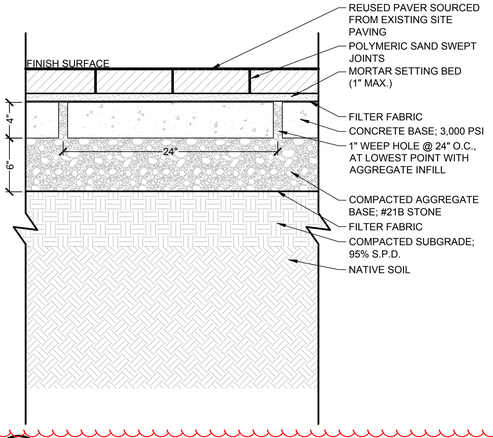
11 PEDESTRIAN CONCRETE EDGE TO UNIT PAVER
1 1/2" = 1'-0"



8 MORTAR-SET PAVER EDGE TO BUILDING
1 1/2" = 1'-0"



6 MORTAR-SET UNIT PAVER EDGE TO LANDSCAPE
1 1/2" = 1'-0"



3 UNIT PAVER SET ON CONCRETE BASE
1 1/2" = 1'-0"

COMMONWEALTH OF VIRGINIA
Edwin Espino
EDWIN A. ESPINO
No. 2346
06/26/2026
LANDSCAPE ARCHITECT

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TEL 434.295.5624 FAX 434.295.8317 www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS.

REVISION DESCRIPTION

DATE

DATE 06/26/2026
DRAWN BY M. RACHNER
DESIGNED BY M. RACHNER
CHECKED BY E. ESPINO
SCALE AS SHOWN

TIMMONS GROUP

MILLER PARK POOL
THE CITY OF LYNCHBURG
SITE NOTES AND DETAILS

JOB NO. 57972.002
SHEET NO. L1.20

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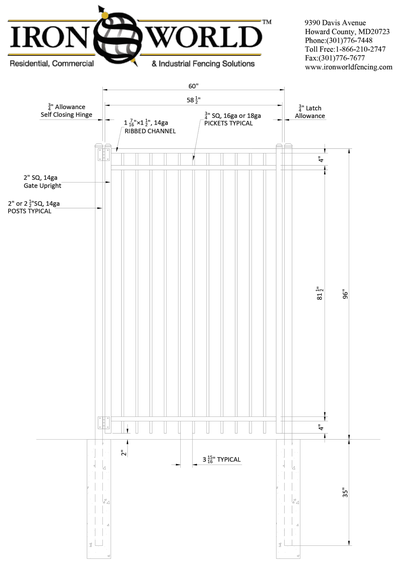
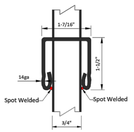


NOTES:
1. GATE SHOWN WITH OUR SELF CLOSING STANDARD HARDWARE.
2. OTHER GATE HARDWARE COULD CHANGE LATCH AND HINGE CLEARANCE.
3. ALL HARDWARE SHIPPED LOOSE AND FIELD INSTALLED.



Steel Posts
- ☐ 2" x 6' 14ga
- ☐ 2" x 7' 14ga
- ☐ 2" x 8' 14ga
- ☐ 2" x 9' 14ga
- ☐ 2 1/2" x 6' 14ga
- ☐ 2 1/2" x 7' 14ga
- ☐ 2 1/2" x 8' 14ga
- ☐ 2 1/2" x 9' 14ga
- ☐ 2 1/2" x 11' 14ga

MAVERICK™ SUPREME PLUS
COMMERCIAL STEEL
8H X 5W - MSS Commercial Aberdeen-3R Black - STEEL SWING GATE

PT# MSSCS-CGFT9660A3-BK

6 PEDESTRIAN GATE

NOTE: FENCE EXAMPLE ONLY FOR CONCEPTUAL USE ONLY.

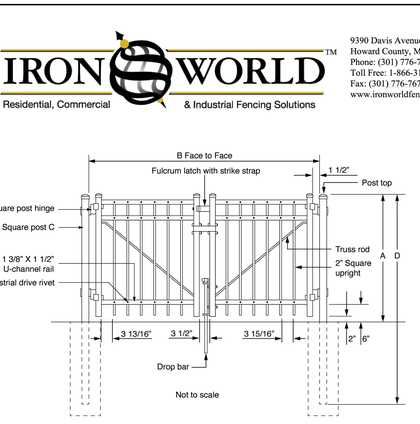
GATE HARDWARE / EGRESS NOTE:
CONTRACTOR SHALL PROVIDE UL-LISTED PANIC HARDWARE (PUSH BAR) ON ALL EGRESS GATES, COMPLIANT WITH ADA, APPLICABLE BUILDING/LIFE SAFETY CODES, AND ALL LOCAL POOL BARRIER AND POOL SAFETY REQUIREMENTS.

PROVIDE ANTI-TAMPER EXPANDED METAL MESH GUARD AT INTERIOR PUSH BAR TO PREVENT EXTERIOR OPERATION OR REACH-THROUGH. GUARD SHALL EXTEND A MINIMUM OF 12 INCHES BEYOND ALL SIDES OF THE PUSH BAR ASSEMBLY AND BE CONFIGURED TO MAINTAIN FULL, UNOBSTRUCTED EMERGENCY EGRESS FROM THE INTERIOR SIDE. MATCH MESH COLOR TO FENCE COLOR.

ALL COMPONENTS SHALL BE CORROSION-RESISTANT, VANDAL-RESISTANT, AND COORDINATED WITH GATE MANUFACTURER. INSTALLATION SHALL COMPLY WITH APPLICABLE PUBLIC POOL ENCLOSURE AND SAFETY BARRIER STANDARDS, INCLUDING SELF-LATCHING/SELF-CLOSING REQUIREMENTS WHERE REQUIRED BY JURISDICTION.

IRON WORLD™
Residential, Commercial & Industrial Fencing Solutions

9390 Davis Avenue
Howard County, MD20723
Phone:(301)776-7448
Toll Free:1-866-210-2747
Fax:(301)776-7677
www.ironworldfencing.com



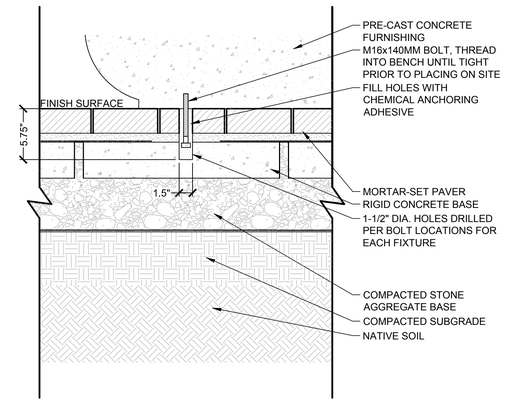
Nom Height (A)	Post Option (C)	Picket Option (E)	
3' - 0"	3" SQ x 12 GA	3/4" SQ or 1" SQ > 14 GA, 16 GA, 18 GA	A ___ " Nom Height
3' - 6"	4" SQ x 11 GA		B ___ " Face to face of posts
4' - 0"	6" SQ x 3/16" Wall		C ___ " post size ___ gauge
5' - 0"	8" SQ x 1/4" Wall		D ___ " post length
6' - 0"	10" SQ x 1/4" Wall		E ___ " picket size ___ gauge
7' - 0"			
8' - 0"			
Custom heights available			

1. Installation to be completed in accordance with manufacturer's specifications.
2. Do not scale drawings.
3. Specifications shown can be changed only by the manufacturer.
4. Footing width to be (4) x post width.

MAVERICK™ I (INDUSTRIAL)
Aberdeen 3 Rail Traditional Double Swing Gate (6' - 16')

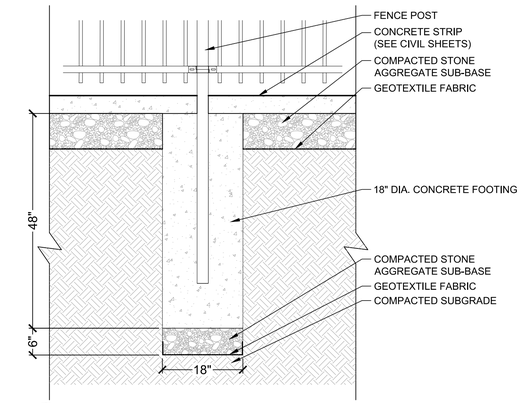
7 BLACK ALUMINUM FENCE AND DOUBLE-GATE

AS SHOWN



4 CONCRETE BENCH IN-GROUND ANCHORING

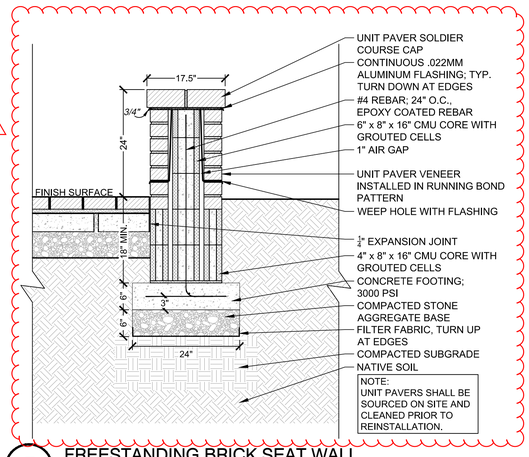
1 1/2" = 1'-0"



1 FENCE POST CONCRETE FOOTING

3/4" = 1'-0"

2



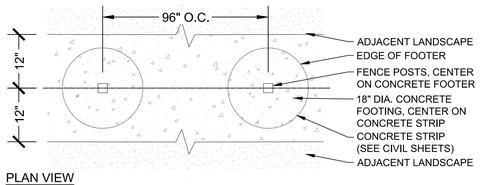
5 FREESTANDING BRICK SEAT WALL

3/4" = 1'-0"

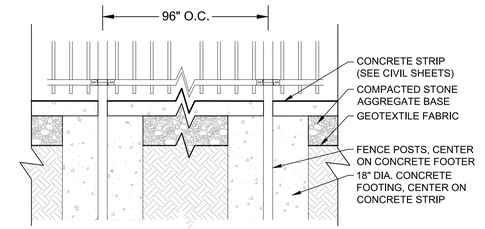
REFERENCE NOTES SCHEDULE

SYMBOL	CODE	DESCRIPTION	QTY	DETAIL
FENCE				
	F-101	POOL FENCING	695 LF	7 / L1.21
SYMBOL	CODE	DESCRIPTION	QTY	DETAIL
ROCK				
	K-101	DECORATIVE ROCK	1,538 SF	10/L1.20
SYMBOL	CODE	DESCRIPTION	QTY	DETAIL
PAVING				
	P-101	CONCRETE PAVING	26,699 SF	SEE CIVIL PLANS
	P-102	BRICK PAVING	3,192 SF	3/L1.20
	P-104	REINFORCED CONCRETE	106 SF	9/L1.20
SYMBOL	CODE	DESCRIPTION	QTY	DETAIL
WALL				
	W-103	BRICK SEAT WALL	55 LF	5 / L1.21

NOTE: ALL PRODUCTS SPECIFIED SHALL BE CONSIDERED BASIS-OF-DESIGN AND SHALL BE FOLLOWED BY 'OR APPROVED EQUIVALENT', SUBJECT TO REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT AND OWNER.



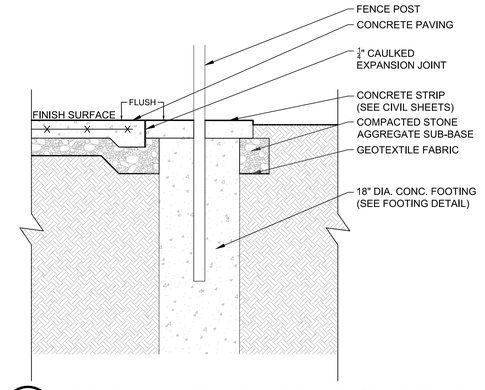
PLAN VIEW



SECTION VIEW

2 FENCE POST FOOTING SPACING

3/4" = 1'-0"



3 PEDESTRIAN CONC. EDGE TO FENCE FOOTING

3/4" = 1'-0"

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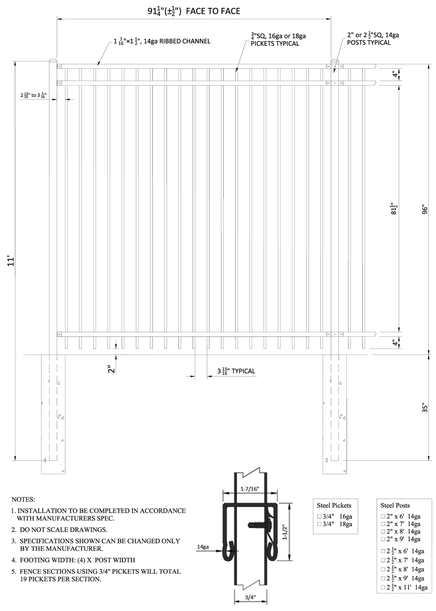

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPEC.
2. DO NOT SCALE DRAWINGS.
3. SPECIFICATIONS SHOWN CAN BE CHANGED ONLY BY THE MANUFACTURER.
4. FOOTING WIDTH: (4) X POST WIDTH
5. FENCE SECTIONS USING 3/4" PICKETS WILL TOTAL 19 PICKETS PER SECTION.

Steel Pickets
- ☐ 3/4" 16ga
- ☐ 3/4" 18ga

Steel Posts
- ☐ 2" x 6' 14ga
- ☐ 2" x 7' 14ga
- ☐ 2" x 8' 14ga
- ☐ 2" x 9' 14ga
- ☐ 2 1/2" x 6' 14ga
- ☐ 2 1/2" x 7' 14ga
- ☐ 2 1/2" x 8' 14ga
- ☐ 2 1/2" x 9' 14ga
- ☐ 2 1/2" x 11' 14ga

MAVERICK™ SUPREME PLUS
COMMERCIAL STEEL
8H x 8W - MSS Commercial Aberdeen 3R Black - STEEL PANEL

PT# MSSC-CP94905A3-BK

COMMONWEALTH OF VIRGINIA
Edwin Espino
EDWIN A. ESPINO
No. 2346
06/26/2026
LANDSCAPE ARCHITECT

THIS DRAWING PREPARED AT THE
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608 Preston Avenue, Suite 200 | Charlottesville, VA 22903
TEL 434.295.5624 FAX 434.295.8317 www.timmons.com

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REVISION DESCRIPTION

DATE

DATE 06/26/2026
DRAWN BY M. RACHNER
DESIGNED BY M. RACHNER
CHECKED BY E. ESPINO
SCALE AS SHOWN

TIMMONS GROUP

MILLER PARK POOL
THE CITY OF LYNCHBURG
SITE NOTES AND DETAILS

JOB NO. 57972.002
SHEET NO. L1.21

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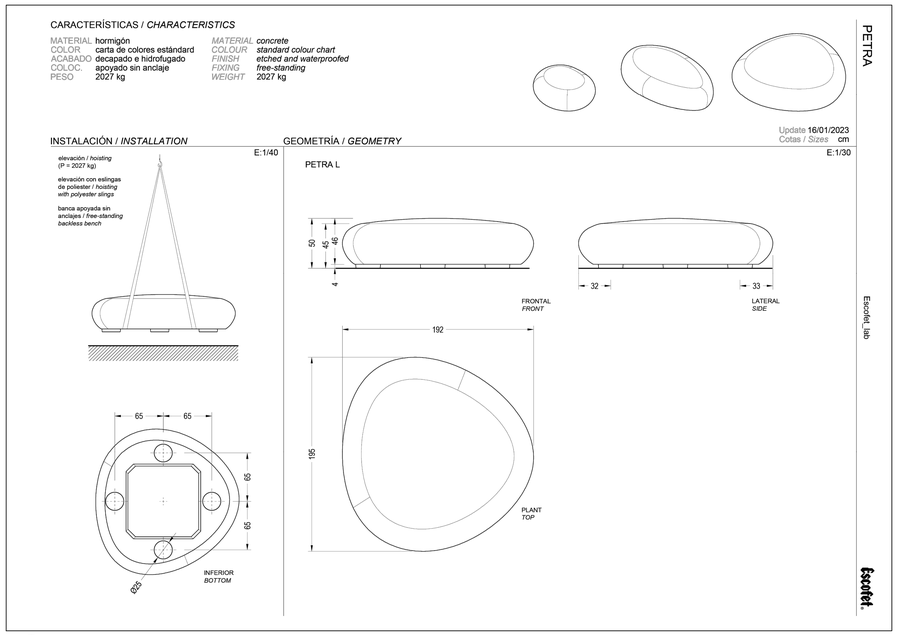


2 PEBBLE BENCH

–

3 SHADE STRUCTURE - SMALL

–

FURNISHINGS SCHEDULE

CODE	DESCRIPTION	QTY	DETAIL
LAYOUT			
L-101	CABANA	6	3/L1.30
L-102	44'X30' LARGE SHADE STRUCTURE	1	1/L1.30

CODE	DESCRIPTION	QTY	DETAIL
SITE FURNISHINGS			
S-101	LONG DINING TABLE	1	BY OTHERS
S-102	SQUARE DINING TABLE	30	BY OTHERS
S-103	DINING CHAIR	128	BY OTHERS
S-104	SMALL UMBRELLA	10	BY OTHERS
S-105	LARGE UMBRELLA	21	BY OTHERS
S-106	CHAISE LOUNGE	104	BY OTHERS
S-107	9-BIKE RACK	1	1/L1.31
S-108	PEBBLE BENCH	3	2/L1.30
S-109	OUTDOOR SHOWER	1	2/L1.31
S-110	FREE-STANDING WATER FOUNTAIN	1	3/L1.31

NOTE: ALL PRODUCTS SPECIFIED SHALL BE CONSIDERED BASIS-OF-DESIGN AND SHALL BE FOLLOWED BY 'OR APPROVED EQUAL', SUBJECT TO REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT AND OWNER.

NOTE: ALL MOVEABLE FURNITURE IS SHOWN FOR CONVENIENCE ONLY AND IS TO BE PROVIDED BY OWNER.

2022A

poligon®

PROJECT:

LOCATION:

BUILDING TYPE: CHE 30x44

ROOF TYPE: MULTI-RIB

BUILDING NUMBER:

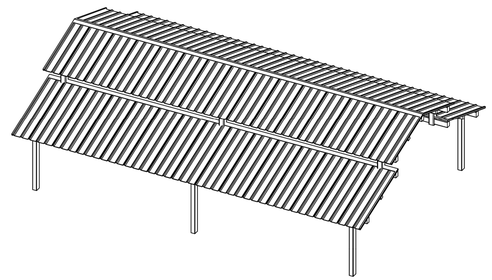
ORDER NUMBER:

QUOTE NUMBER:

DRAWING LIST:

SHEET NUMBER	DRAWING DESCRIPTION
CS	COVER SHEET
1	ARCHITECTURAL ELEVATIONS
2	STRUCTURAL FRAMING PLAN
3	COLUMN LAYOUT

STRUCTURE COLOR: GLACIER WHITE
ROOF COLOR: ROMAN BLUE



poligon® WWW.POLIGON.COM MADE IN THE USA FIELD SUPPORT: (816) 888-3004 by PORTER CORP

KEY LEVEL: A
SCALE: 1:96
DRAWN BY: CHS,ISQ2C
PRINT DATE: 11/29/2023
PO NUMBER: CHE-30x44-E1W
PROJECT: PROJECT LOCATION:
DRAWING: COVER SHEET
SHEET: CS

STOP!!
NOT FOR CONSTRUCTION

USE FOR PRELIMINARY PLANNING AND ESTIMATING ONLY

CERTIFICATES:
MIAMI-DADE COUNTY CERTIFICATE OF COMPETENCY NO. 21-0819.13
PCI (POWDER COATING INSTITUTE) 4000 CERTIFIED

FABRICATOR APPROVALS:
CITY OF PHOENIX, AZ APPROVED FABRICATOR #C08-2010
CITY OF LOS ANGELES, CA APPROVED FABRICATOR #FB01596
CITY OF RIVERSIDE, CA APPROVED FABRICATOR #SF_000042
CITY OF HOUSTON, TX APPROVED FABRICATOR #470
CLARK COUNTY, NV APPROVED FABRICATOR #264
STATE OF UTAH APPROVED FABRICATOR 02008-14
AISC APPROVED FABRICATOR C-00018751

MATERIALS:

DESCRIPTION	ASTM DESIGNATION
TUBE STEEL	A500 (GRADE B)
SCHEDULE PIPE	A53 (GRADE B)
RMT PIPE	A519
LIGHT GAGE COLD FORMED	A1003 (GRADE 50)
STRUCTURAL STEEL PLATE	A36
ROOF PANELS (STEEL)	A653

GENERAL NOTES:
UNLESS NOTED OTHERWISE, THIS STRUCTURE WAS DESIGNED TO ONLY SUPPORT WHAT IS SHOWN ON THESE DRAWINGS. THE MANUFACTURER MUST BE CONTACTED IF ANYTHING ELSE IS TO BE ATTACHED TO THIS STRUCTURE (WALLS, COLUMN WRAPS, RAILINGS, ETC.) SO THE DESIGN OF THIS STRUCTURE CAN BE REVIEWED AND POSSIBLY REVISED.

UNLESS NOTED OTHERWISE, THIS STRUCTURE WAS DESIGNED ASSUMING A 20' SEPARATION BETWEEN ANY ADJACENT STRUCTURE WITH AN EAVE HEIGHT EQUAL TO OR GREATER THAN THE EAVE HEIGHT OF THIS STRUCTURE. IF THAT SEPARATION DOES NOT EXIST, THE MANUFACTURER MUST BE CONTACTED SO THE DESIGN OF THIS STRUCTURE CAN BE REVIEWED AND POSSIBLY REVISED.

STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION MANUAL.

ALL WELDING IS PERFORMED BY AMERICAN WELDING SOCIETY (AWS) CERTIFIED WELDERS AND CONFORMS TO THE LATEST EDITION OF AWS D1.1 OR D1.3 AS REQUIRED.

PARTS SHOWN MAY BE UPGRADED DUE TO STANDARDIZED FABRICATION. REFER TO THE SHIPPING BILL OF MATERIALS FOR POSSIBLE SUBSTITUTIONS.

FOR PROPER FIELD INSTALLATION OF THE BUILDING IT IS RECOMMENDED THAT THE PRIMARY FRAME INSTALLER AND THE ROOF INSTALLER HAVE A MINIMUM FIVE (5) YEARS DOCUMENTED EXPERIENCE INSTALLING THIS TYPE OF PRODUCT.

FOR PROPER FIELD INSTALLATION OF THE BUILDING IT IS RECOMMENDED THAT ELECTRIC WIRING, IF REQUIRED, BE RUN THROUGH THE STRUCTURAL MEMBERS BEFORE THE BUILDING IS ERECTED.

1 SHADE STRUCTURE - LARGE

–

#

#

COMMONWEALTH OF VIRGINIA
EDWIN A. ESPINO
No. 2346
06/12/2026
LANDSCAPE ARCHITECT

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TIMMONS GROUP

MILLER PARK POOL
THE CITY OF LYNCHBURG
SITE CUTSHEETS

REVISION	DESCRIPTION	DATE

DATE: *03/13/2026*
DRAWN BY: *M. RACHNER*
DESIGNED BY: *M. RACHNER*
CHECKED BY: *E. ESPINO*
SCALE: *AS SHOWN*

JOB NO. *57972.002*
SHEET NO. *L1.30*

#

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GLOBAL INDUSTRIAL
We can supply that.

Sales: 1.888.978.7759

Model: WB670434

EXCLUSIVE BRANDS | BESTSELLER

Global Industrial® 84"H Outdoor Water Shower, 2 Nozzles, Stainless Steel

★★★★★ (0)

Backordered, expected around 06/29/2026

Product Description

Upgrade your recreational facilities with the Global Industrial® 84"H Outdoor Water Shower. The beautiful chrome finish instantly updates and blends well into any environment and includes 100 lead-free waterways. The shower's 2-1/2mm thick stainless steel can withstand consistent use and is resistant to all vandalism while the 4mm thick base provides stability. 1-Year Limited Warranty.

Features:

- Two shower nozzles with 2 push buttons for activation
- Heavy-duty 316 stainless steel construction
- Vandal-resistant
- Spray Nozzles - 2

Specifications

Weights & Dimensions

Length	12 in
Width	12 in
Height	84 in
Weight	84.9 lbs

Product Details

Mounting Location	Floor
Material	Stainless Steel
Color	Silver
Manufacturers Part Number	670434
Installation Type	Outdoor
Vandal Resistant	Yes
Brand	Global Industrial

Warranty

Warranty	1 yr

2 OUTDOOR SHOWER
-

GLOBAL INDUSTRIAL
We can supply that.

Sales: 1.888.978.7759

Model: WB761222

EXCLUSIVE BRANDS

Global Industrial™ Outdoor Pedestal Bottle Filling Station, Stainless Steel

★★★★★ (0)

Ships within 1 Business Day

Product Description

✓ Simplified push button activation.
✓ Anti-theft screws prevent unwanted access to inside compartments.
✓ Corrosion-resistant 316 stainless steel withstands blazing sun and wet weather.

Looking for a modern bottle filler for your grounds? The Global Industrial™ Outdoor Pedestal Bottle Filling Station is the go-to hydration station for camp grounds, parks, school campuses, office complexes, golf courses, and more. Made with sustainability in mind, this bottler filler is simple to use, providing an eco-friendly solution to refilling reusable water bottles. Plus, no electrical power is required, keeping maintenance to a minimum. Patent Pending

- Refined stainless steel powder coat finish.
- Integral drain eliminates standing water.
- Quick refilling station provides minimal splash.
- Rated for inlet water pressure of 20-105 PSI.
- ADA compliant.

Specifications

Weights & Dimensions

Width	10-1/4 in
Depth	10-1/4 in
Height	60-1/4 in
Weight	86 lbs
Drain Size	1-1/4 in
Water Inlet Size	3/8 in

Product Details

Water Refilling Location	Upper
Refrigerated	No
Color	Silver
Water Refilling Stations	1
For Outdoor Use	Yes
Freeze/Frost Resistant	Yes
Number of Stations	1
Style	Outdoor Bottle Refilling Station

3 FREE-STANDING WATER FOUNTAIN
-

NOTE: ALL PRODUCTS SPECIFIED SHALL BE CONSIDERED BASIS-OF-DESIGN AND SHALL BE FOLLOWED BY 'OR APPROVED EQUAL', SUBJECT TO REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT AND OWNER.

MADRAX

MADRAX DIVISION
GRABER MANUFACTURING, INC.
1080 UNIEK DRIVE
WAUNAKEE, WI 53597
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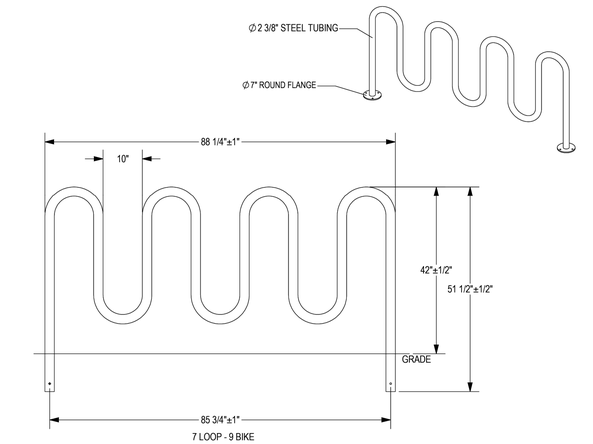
WWW.MADRAX.COM, E-MAIL: SALES@MADRAX.COM



CHECK DESIRED MOUNT

☐ IN GROUND MOUNT (IG)
☐ SURFACE FLANGE MOUNT (SF)

PRODUCT: HW238-9-IG(SF)
DESCRIPTION: HEAVY DUTY WINDER BIKE RACK
9 BIKE, SURFACE OR IN GROUND MOUNT
DATE: 10-16-18
ENG: SMC

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NOTES:
1. INSTALL BIKE RACKS ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
2. CONSULTANT TO SELECT COLOR (FINISH), SEE MANUFACTURER'S SPECIFICATIONS.
3. SEE SITE PLAN FOR LOCATION OR CONSULT OWNER.

COLOR: BLACK

1 HEAVY DUTY BIKE RACK #
- #

COMMONWEALTH OF VIRGINIA
Edwin Espino
EDWIN A. ESPINO
No. 2346
06/12/2026
LANDSCAPE ARCHITECT

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TIMMONS GROUP

REVISION DESCRIPTION | DATE

DATE 03/13/2026
DRAWN BY M. RACHNER
DESIGNED BY M. RACHNER
CHECKED BY E. ESPINO
SCALE AS SHOWN

MILLER PARK POOL
THE CITY OF LYNCHBURG
SITE CUTSHEETS

JOB NO. 57972.002
SHEET NO. L1.31

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ALIGN W/ INSIDE COLUMN EDGE WITH OPENING OF EXISTING BUILDING PASS THROUGH

ALIGN W/ WINDOWS OF LIFEGUARD BUILDING

NO PARKING FIRE LANE

NAD 83

SCALE 1"=20'

0 20' 40'

COMMONWEALTH OF VIRGINIA
EDWIN A. ESPINO
No. 2346
06/12/2026
LANDSCAPE ARCHITECT

NOT FOR CONSTRUCTION

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REVISION DESCRIPTION	DATE

DATE: 03/13/2026
DRAWN BY: M. RACHNER
DESIGNED BY: M. RACHNER
CHECKED BY: E. ESPINO
SCALE: 1" = 20'

TIMMONS GROUP

MILLER PARK POOL

THE CITY OF LYNCHBURG

SITE LAYOUT PLAN

JOB NO. 57972.002

SHEET NO. L2.00

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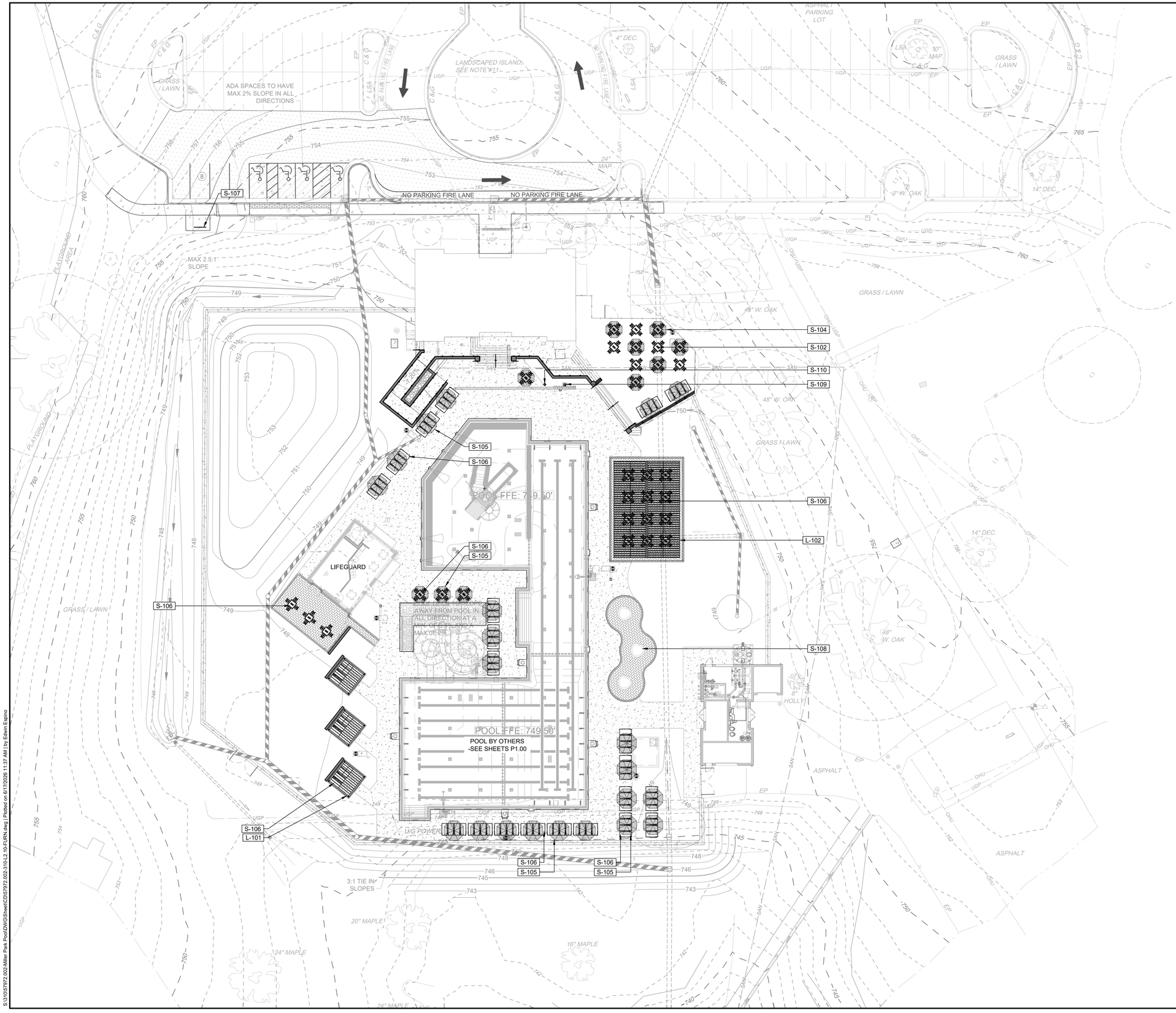

FURNISHINGS KEY

CODE	DESCRIPTION	DETAIL
LAYOUT		
L-101	CABANA	3/L1.30
L-102	44'X30' LARGE SHADE STRUCTURE	1/L1.30
SITE FURNISHINGS		
S-101	LONG DINING TABLE	BY OWNER
S-102	SQUARE DINING TABLE	BY OWNER
S-103	DINING CHAIR	BY OWNER
S-104	SMALL UMBRELLA	BY OWNER
S-105	LARGE UMBRELLA	BY OWNER
S-106	CHAISE LOUNGE	BY OWNER
S-107	9-BIKE RACK	1/L1.31
S-108	PEBBLE BENCH	2/L1.30
S-109	OUTDOOR SHOWER	2/L1.31
S-110	FREE-STANDING WATER FOUNTAIN	3/L1.31

NOTE:
ALL MOVEABLE FURNITURE ARE SHOWN FOR CONVENIENCE ONLY AND ARE TO BE PROVIDED BY THE OWNER.

COMMONWEALTH OF VIRGINIA
Edwin Espino
EDWIN A. ESPINO
No. 2346
06/12/2026
LANDSCAPE ARCHITECT

NOT FOR CONSTRUCTION

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REVISION DESCRIPTION	DATE

DATE: 03/13/2026
DRAWN BY: M. RACHNER
DESIGNED BY: M. RACHNER
CHECKED BY: E. ESPINO
SCALE: 1" = 20'

TIMMONS GROUP

MILLER PARK POOL

THE CITY OF LYNCHBURG

FURNITURE PLAN

JOB NO. 57972.002
SHEET NO. L2.10

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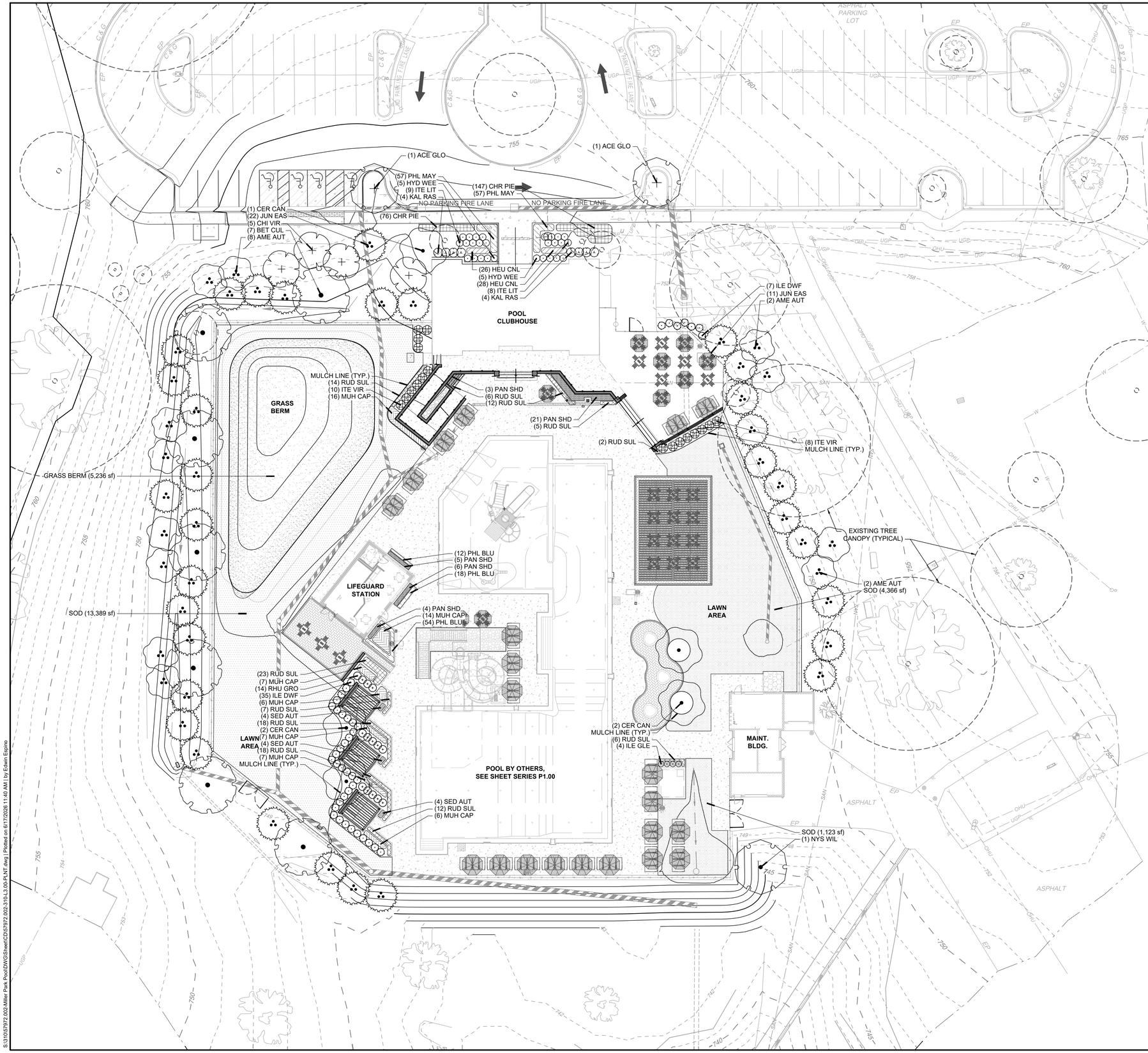

PLANT KEY	
CODE	BOTANICAL NAME
CANOPY TREES	
ACE GLO	ACER RUBRUM `OCTOBER GLORY` TM
BET CUL	BETULA NIGRA 'CULLY'
NYS WIL	NYSSA SYLVATICA 'WILDFIRE'
UNDERSTORY TREES	
AME AUT	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'
CER CAN	CERCIS CANADENSIS
CHI VIR	CHIONANTHUS VIRGINICUS
EVERGREEN TREES	
JUN EAS	JUNIPERUS VIRGINIANA
DECIDUOUS SHRUBS	
HYD WEE	HYDRANGEA QUERCIFOLIA 'PEE WEE'
ITE VIR	ITEA VIRGINICA 'HENRY'S GARNET'
ITE LIT	ITEA VIRGINICA 'LITTLE HENRY'
RHU GRO	RHUS AROMATICA 'GRO-LOW'
EVERGREEN SHRUBS	
ILE GLE	ILEX GLABRA 'GEM BOX'
ILE DWF	ILEX VOMITORIA 'SCHILLINGS DWARF'
KAL RAS	KALMIA LATIFOLIA 'RASPBERRY GLOW'
GROUND COVERS	
SED AUT	SEDUM X 'AUTUMN JOY'
ORNAMENTAL GRASSES	
MUH CAP	MUHLENBERGIA CAPILLARIS
PAN SHD	PANICUM VIRGATUM 'SHENANDOAH'
PERENNIALS	
CHR PIE	CHRYSOGONUM VIRGINIANUM 'PIERRE'
HEU CNL	HEUCHERA X 'CITRONELLE'
PHL BLU	PHLOX DIVARICATA 'BLUE MOON'
PHL MAY	PHLOX DIVARICATA 'MAY BREEZE'
RUD SUL	RUDBECKIA FULGIDA 'LITTLE GOLDSTAR'

SEEDING AND SODDING AREAS

SOD

GRASS BERM

COMMONWEALTH OF VIRGINIA
Edwin Espino
EDWIN A. ESPINO
No. 2346
06/12/2026
LANDSCAPE ARCHITECT

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DRAWN BY *M. RACHNER*
DESIGNED BY *M. RACHNER*
CHECKED BY *E. ESPINO*
SCALE *1" = 20'*

TIMMONS GROUP

MILLER PARK POOL

THE CITY OF LYNCHBURG

PLANTING PLAN

JOB NO. *57972.002*
SHEET NO. *L3.00*

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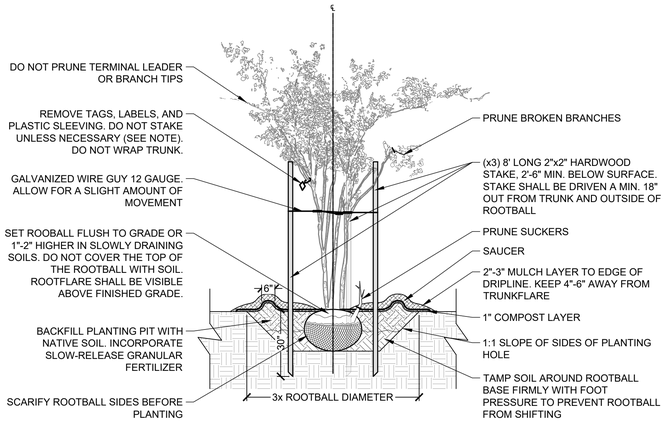
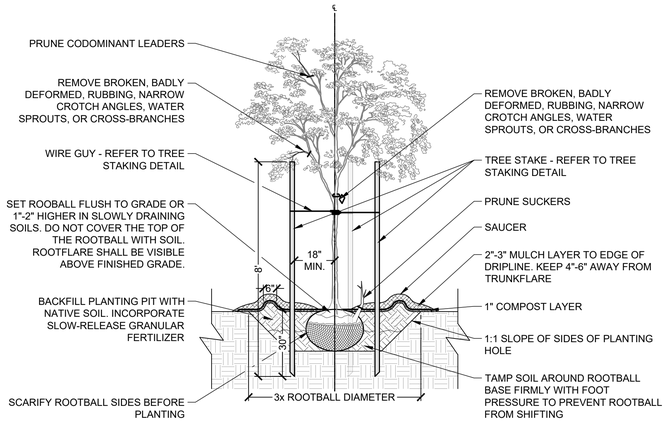


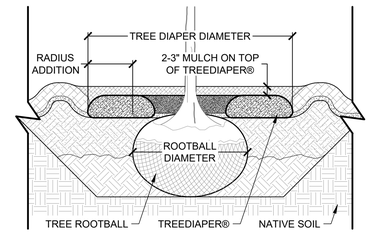
6 MULTI-STEM TREE PLANTING DETAIL

3/8" = 1'-0"



3 DECIDUOUS TREE PLANTING DETAIL

3/8" = 1'-0"

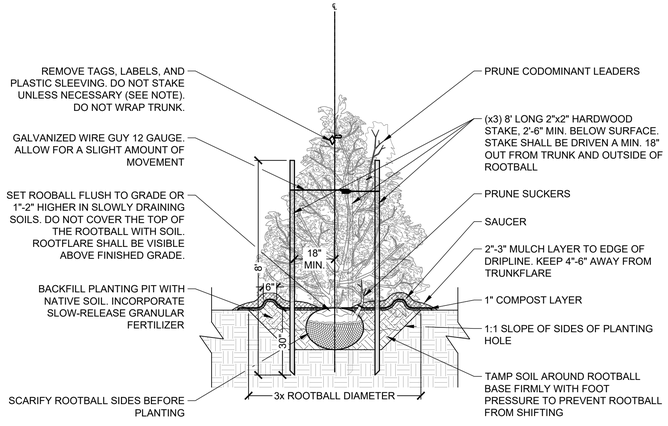


CONTAINER # OR BALL & BURLAP	GALLON SIZE	ROOTBALL DIAMETER	RECOMMENDED MINIMUM TREEDIAPER® SIZE
#1	1	6-8"	TD18
#2	2	8-10"	TD18
#3	3	10-12"	TD20 OR TD24
#5	5	10-12"	TD24
#7	7	12-14"	TD24
#10	10	12-18"	TD24 OR 1 TD36
#15	15	16-19"	TD36
#20	20	18-24"	1 TD36 OR 1 TD48
#25	25	22-28"	1 TD48
#30	30	24-30"	1 TD48
#45	45	26-31"	1 UNIT OF TD48
#65	65	30-34"	1 1/4 UNIT OF TD48
B&B		34"	1 1/4 UNIT OF TD48
#100 OR B&B	100	36-44"	1 1/2 UNIT OF TD48
#150 OR B&B	150	45"	2 UNITS OF TD48
#200 OR B&B	200	50"	2 1/4 UNIT OF TD48
#300 OR B&B	300	60"	3 UNITS OF TD48
B&B		70"	3 1/2 UNIT OF TD48
B&B		90"	5 1/4 UNIT OF TD48
B&B		120"	8 1/2 UNIT OF TD48

NOTES:
- COMPLETELY SUBMERGE TREEDIAPER® IN WATER FOR 2-4 HOURS.
- ALWAYS PLACE MAT DIRECTLY ON TOP OF SOIL WITH DARK WOVEN SIDE FACING UP.
- COVERING WITH COARSE STRUCTURED MULCH MATERIALS IS HIGHLY RECOMMENDED. DO NOT PLACE TREEDIAPER® ON MULCH.
- DO NOT PLACE ANY SOIL, DIRT, FINE SAND OR COMPOST ON TOP OF TREEDIAPER®.
- FOR ROOTBALLS LARGER THAN 30", USE MULTIPLE UNITS OF TD48 TO COVER A CITCLE 20+" LARGER THAN THE ROOTBALL. USE THE CHART OR USE THE FOLLOWING FORMULA TO CALCULATE THE NUMBER (N) OF TD48 UNITS:
  N = (ROOTBALL SIZE IN INCHES +20)^2 / (48)^2
  ROUND N UP TO THE CLOSEST QUARTERS FOR THE N OF TD48
- INSTALL TREEDIAPER® PER MANUFACTURER'S RECOMMENDATIONS.

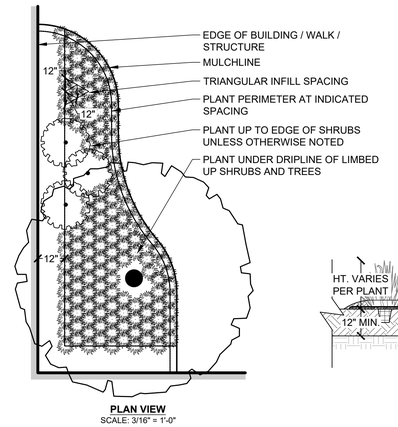
7 TREEDIAPER®

3/4" = 1'-0"



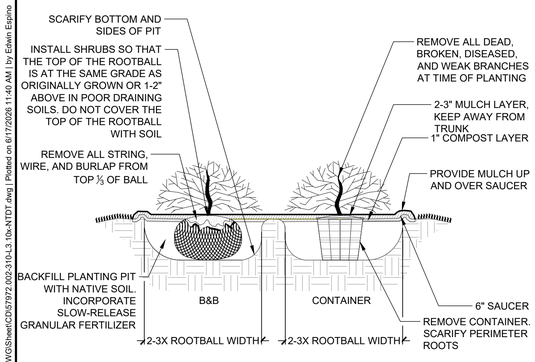
4 EVERGREEN TREE PLANTING DETAIL

3/8" = 1'-0"



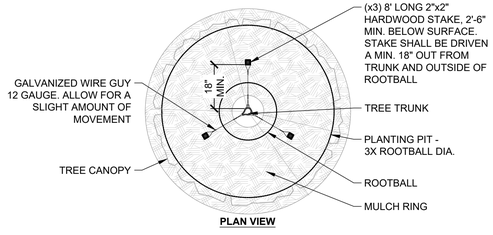
0 PERENNIAL AND GROUNDCOVER PLANTING DETAIL

SCALE: AS SHOWN



8 SHRUB PLANTING DETAIL

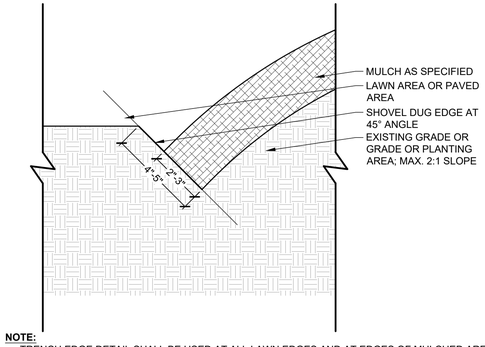
NTS



STAKING NOTE:
- STAKE ALL TREES
  -- WITH LARGE CROWNS
  -- IF LOCATED ON WINDY SITES
  -- ON SLOPES
  -- WHERE TAMPERING MAY OCCUR
- STAKE EVERGREEN TREES 6' OR TALLER
- STAKE DECIDUOUS TREES 2" CALIPER OR GREATER

5 TREE STAKING DETAIL

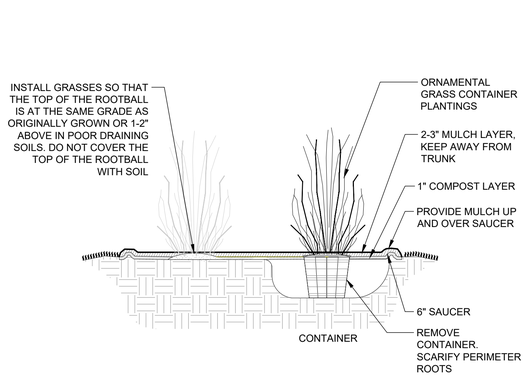
3/8" = 1'-0"



NOTE:
- TRENCH EDGE DETAIL SHALL BE USED AT ALL LAWN EDGES AND AT EDGES OF MULCHED AREA (FOR CONTAINMENT).
- TRENCH EDGE SHALL CREATE A CLEAN SEPARATION BETWEEN AREAS AND SHALL CREATE SMOOTH AND EVEN LINES (AS INDICATED ON PLANS).

2 TRENCH EDGE

3" = 1'-0"



1 ORNAMENTAL GRASS DETAIL

NTS

#

EDWIN A. ESPINO
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06/12/2026
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COMMONWEALTH OF VIRGINIA

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CHECKED BY: E. ESPINO
SCALE: AS SHOWN

TIMMONS GROUP

MILLER PARK POOL
THE CITY OF LYNCHBURG
PLANTING NOTES AND DETAILS

JOB NO. 57972.002
SHEET NO. L3.10

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PLANT SCHEDULE						
CODE	QTY	BOTANICAL NAME	COMMON NAME	MIN. INSTALLED SIZE	ROOT	
CANOPY TREES						
ACE GLO	2	ACER RUBRUM `OCTOBER GLORY` TM	RED MAPLE	2.5" CAL.	B&B	
BET CUL	7	BETULA NIGRA 'CULLY'	HERITAGE® RIVER BIRCH	2.5" CAL.	B&B	
NYS WIL	1	NYSSA SYLVATICA 'WILDFIRE'	WILDFIRE TUPELO	2.5" CAL.	B&B	
UNDERSTORY TREES						
AME AUT	12	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE APPLE SERVICEBERRY	6` HT.	B&B OR CONTAINER	
CER CAN	5	CERCIS CANADENSIS	EASTERN REDBUD	1.5" CAL.	B&B OR CONTAINER	
CHI VIR	4	CHIONANTHUS VIRGINICUS	WHITE FRINGETREE	1.5" CAL.	B&B OR CONTAINER	
EVERGREEN TREES						
JUN EAS	33	JUNIPERUS VIRGINIANA	EASTERN REDCEDAR	6` HT.	B&B OR CONTAINER	
CODE	QTY	BOTANICAL NAME	COMMON NAME	MIN. INSTALLED SIZE	ROOT	SPACING
DECIDUOUS SHRUBS						
HYD WEE	10	HYDRANGEA QUERCIFOLIA 'PEE WEE'	PEE WEE OAKLEAF HYDRANGEA	3 GAL.	CONTAINER	36" o.c.
ITE VIR	18	ITEA VIRGINICA 'HENRY'S GARNET'	HENRY'S GARNET SWEETSPIRE	18" HT./SPRD.	CONTAINER	48" o.c.
ITE LIT	17	ITEA VIRGINICA 'LITTLE HENRY'	VIRGINIA SWEETSPIRE	15" HT.	CONTAINER	36" o.c.
RHU GRO	14	RHUS AROMATICA 'GRO-LOW'	GRO-LOW FRAGRANT SUMAC	15" HT.	CONTAINER	42" o.c.
EVERGREEN SHRUBS						
ILE GLE	4	ILEX GLABRA 'GEM BOX'	INKBERRY HOLLY	18" HT./SPRD.	CONTAINER	30" o.c.
ILE DWF	42	ILEX VOMITORIA 'SCHILLINGS DWARF'	SCHILLINGS DWARF YAUPON HOLLY	18" HT./SPRD.	CONTAINER	42" o.c.
KAL RAS	8	KALMIA LATIFOLIA 'RASPBERRY GLOW'	RASPBERRY GLOW MOUNTAIN LAUREL	18" HT.	CONTAINER	48" o.c.
GROUND COVERS						
SED AUT	12	SEDUM X 'AUTUMN JOY'	AUTUMN JOY SEDUM	1 GAL.	CONTAINER	18" o.c.
ORNAMENTAL GRASSES						
MUH CAP	63	MUHLENBERGIA CAPILLARIS	PINK MUHLY GRASS	1 GAL.	CONTAINER	24" o.c.
PAN SHD	39	PANICUM VIRGATUM 'SHENANDOAH'	SHENANDOAH SWITCH GRASS	1 GAL.	CONTAINER	24" o.c.
PERENNIALS						
CHR PIE	223	CHRYSOGONUM VIRGINIANUM 'PIERRE'	PIERRE GREEN-AND-GOLD	1 QT.	CONTAINER	12" o.c.
HEU CNL	54	HEUCHERA X 'CITRONELLE'	CITRONELLE YELLOW CORAL BELLS	1 GAL.	CONTAINER	12" o.c.
PHL BLU	84	PHLOX DIVARICATA 'BLUE MOON'	BLUE MOON WOODLAND PHLOX	1 QT.	CONTAINER	12" o.c.
PHL MAY	114	PHLOX DIVARICATA 'MAY BREEZE'	MAY BREEZE WOODLAND PHLOX	1 QT.	CONTAINER	12" o.c.
RUD SUL	123	RUDBECKIA FULGIDA 'LITTLE GOLDSTAR'	LITTLE GOLDSTAR CONEFLOWER	1 GAL.	CONTAINER	18" o.c.

NOTE:
1. PLANT QUANTITIES ARE PROVIDED FOR CONVENIENCE ONLY AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO BIDDING
2. CONTRACTOR SHALL SEED ALL DISTURBED AREAS NOT OTHERWISE DESIGNATED FOR PLANTING, PAVING OR OTHER SURFACE TREATMENTS

GENERAL NOTES

PRE-CONSTRUCTION

- CONTRACTOR IS RESPONSIBLE FOR CONTACTING "MISS UTILITY" AT 1.800.552.7001 FOR LOCATION OF ALL UTILITY LINES.TREES SHALL BE LOCATED A MINIMUM OF 5 FEET FROM SEWER/WATER CONNECTIONS. NOTIFY LANDSCAPE ARCHITECT OF CONFLICTS.
- VERIFY ALL PLANT MATERIAL QUANTITIES ON THE PLAN PRIOR TO BIDDING, PLANT LIST TOTALS ARE FOR CONVENIENCE ONLY AND SHALL BE VERIFIED PRIOR TO BIDDING.
- PROVIDE PLANT MATERIALS OF QUANTITY, SIZE, GENUS, SPECIES, AND VARIETY INDICATED ON PLANS. ALL PLANT MATERIALS AND INSTALLATION SHALL COMPLY WITH RECOMMENDATIONS AND REQUIREMENTS OF ANSI Z60.1 "AMERICAN STANDARD FOR NURSERY STOCK". IF SPECIFIED PLANT MATERIAL IS NOT OBTAINABLE, SUBMIT PROOF OF NON AVAILABILITY TO THE LANDSCAPE ARCHITECT, TOGETHER WITH PROPOSAL FOR USE OF EQUIVALENT MATERIAL.
- PROVIDE AND INSTALL ALL PLANTS AS IN ACCORDANCE WITH DETAILS AND CONTRACT SPECIFICATIONS.
- SOIL TESTS SHALL BE PERFORMED TO DETERMINE SOIL CHARACTER AND QUALITY. NECESSARY SOIL AMENDMENTS SHALL BE PERFORMED PER TEST RESULTS TO ENSURE PLANT HEALTH.

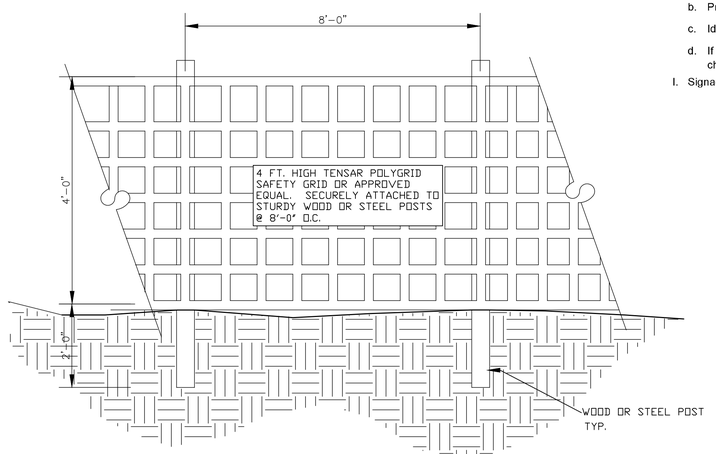
CONSTRUCTION/INSTALLATION

- LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY PLANTS AND MATERIALS THAT ARE IN AN UNHEALTHY OR UNSIGHTLY CONDITION, AS WELL AS PLANTS AND MATERIALS THAT DO NOT CONFORM TO ANSI Z60.1 "AMERICAN STANDARD FOR NURSERY STOCK"
- LABEL AT LEAST ONE TREE AND ONE SHRUB OF EACH VARIETY AND CALIPER WITH A SECURELY ATTACHED, WATERPROOF TAG BEARING THE DESIGNATION OF BOTANICAL AND COMMON NAME.
- INSTALL LANDSCAPE PLANTINGS AT ENTRANCES/EXITS AND PARKING AREAS ACCORDING TO PLANS SO THAT MATERIALS WILL NOT INTERFERE WITH SIGHT DISTANCES.
- CONTRACTOR IS RESPONSIBLE FOR WATERING ALL PLANT MATERIAL DURING INSTALLATION AND UNTIL FINAL INSPECTION AND ACCEPTANCE BY OWNER. CONTRACTOR SHALL NOTIFY OWNER OF CONDITIONS WHICH AFFECTS THE GUARANTEE.

INSPECTIONS/GUARANTEE

- UPON COMPLETION OF LANDSCAPE INSTALLATION, THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR WHO WILL VERIFY COMPLETENESS, INCLUDING THE REPLACEMENT OF ALL DEAD PLANT MATERIAL. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A FINAL INSPECTION BY THE LANDSCAPE ARCHITECT.
- ALL EXTERIOR PLANT MATERIALS SHALL BE GUARANTEED FOR ONE FULL YEAR AFTER DATE OF FINAL INSPECTION AGAINST DEFECTS INCLUDING DEATH AND UNSATISFACTORY GROWTH, DEFECTS RESULTING FROM NEGLECT BY THE OWNER, ABUSE OR DAMAGE BY OTHERS, OR UNUSUAL PHENOMENA OR INCIDENTS WHICH ARE BEYOND THE CONTRACTORS CONTROL ARE NOT THE RESPONSIBILITY OF THE CONTRACTOR.
- PLANT MATERIAL QUANTITIES AND SIZES WILL BE INSPECTED FOR COMPLIANCE WITH APPROVED PLANS BY A SITE PLAN REVIEW AGENT OF THE PLANNING DEPARTMENT PRIOR TO THE RELEASE OF THE CERTIFICATE OF OCCUPANCY.
- REMOVE ALL GUY WIRES AND STAKES 12 MONTHS AFTER INSTALLATION.

0 GENERAL NOTES
NTS



3 TREE PROTECTION FENCE
NOT TO SCALE

Part 1 -General

1.1 Related Documents

1.2 Summary

To preserve and protect existing trees designated for retention during all phases of construction and development. This applies to all trees identified on the Tree Protection Plan as "to be preserved" through all phases of construction The Tree Preservation plan applies to all trees identified on the Tree Protection Plan as "to be Preserved" and should be extended to all residual trees within the project's Limits of Disturbance.

1.3 Definitions

Arborist: An individual engaged in the profession of arboriculture who, through experience, education, and related training, possesses the competence to provide for or supervise the management of trees and other woody plants. To be selected and provided by the landscape contractor as well as be licensed in the state of the project location.

Tree Protection Zone (TPZ): Area surrounding individual trees or groups of trees to remain intact during construction, and defined by fencing and signage as described below unless otherwise indicated. The TPZ is 1.50 feet away in radial distance from the tree trunk for every inch in stem diameter. This area is also referred to as the critical root zone (CRZ) or critical root radius (CRR).

Tree Protection Plan (TPP): An Arborist reviewed tree protection plan and monitoring requirements that delineate areas around trees that should be left undisturbed as well as detail the measures to be take to ensure trees apart of the plan will be kept safe prior to, during, and after construction.

Climbing Gaff: Ankle-worn climbing spikes used to ascend wood poles, such as trees and utility poles.

Deep Root Aeration: Or vertical mulching is the making holes or trenches in soil outside of the TPZ and filling it with organic or inorganic matter.

Part 2 – Pre-Construction

2.1 Pre-Construction Meeting
There shall be a pre-construction meeting with relevant contractors, Landscape Architect, Civil Engineer, and certified Arborist to explain the tree protection and monitoring requirements as outlined in the approved Tree Protection Plan (TPP). Contractors to expect mid-project check-in as well as final close out inspection regarding tree preservation. Contractors should

2.2: Components of Tree Preservation Plan

I. The tree inventory shall be performed.

a. Deciduous trees greater than four (4) inches in diameter measured at breast height (DBH). i. Diameter at breast height (DBH) measured at fifty-four (54) inches from grade or the industry-accepted standards1 for deviation from fifty-four (54) inches.

b. Evergreen trees greater than six (6) feet in height regardless of DBH.

c. Multi-stemmed trees, which split below DBH, greater than eight (8) feet tall even if the individual stems may be less than 4" DBH.

d. Trees located in the City's right-of-way, regardless of DBH.

e. Any tree included in the canopy coverage analysis, as canopy retained, shall be included in the tree inventory.

2.3: Tree Protection Fencing

Prior to any clearing, grubbing, trenching, grading, or any land disturbances, tree protection fencing must be installed as follows:

A. Type

I. The fencing shall be temporary, readily visible, and the last item removed when construction is complete. This fencing will be erected at a radius of 1.50 feet away from the trunk of the tree for every inch in stem diameter. Diameter is measured 4.5 feet above the ground. For trees 4 inches or less in diameter, the measurement will be at 6 inches above the ground. Fencing will consist of heavy duty chain link and will be rigidly supported and maintained during all construction periods at a minimum height of 6.0 feet above grade. The fencing shall effectively:

a. Keep the foliage, crown, branch structure and trunk clear from damage by equipment, materials or disturbances.

b. Preserve roots and soil in an intact and non-compacted state; and

c. Identify the TPZ zone.

d. If LOD is encroached, contractor will seek of approved tree protection fence layout changes.

I. Signage

a. One English language and one Spanish language, readily-visible, durable, waterproof sign shall be installed on the fence in 4 equidistant locations around each individual protected tree. Signs placed on fencing around a stand of protected trees shall be placed at approximately 50-foot intervals. The size of each sign must be a minimum of 16 inches wide and must contain the wording below. The lettering in the word "WARNING" (and Spanish equivalent) must be in capital letters at least 2 inches in height; the phrase "TREE PROTECTION ZONE" must be in capital letters at least 1 inch; size; all other lettering must be at least ½ inch in size.

II. Verify Fencing Installation
Verification that tree protection fencing has been installed pursuant to the approved TPP shall be provided to City before construction commences.

Part 3 – During Construction

3.1 Tree Protection Zone Restrictions (TPZ)

The landscape contractor should select and provide an arborist who is licensed in the state of the project location. No equipment, soil, or construction materials shall be stored within the TPZ. No oil, gasoline, chemicals, paints, solvents, or other damaging materials may be deposited within the TPZ or drainage channels, swales or areas that may lead to the TPZ.

Unless otherwise directed by the project Arborist, all work done within the TPZ, including brush clearance, digging, trenching and planting, shall be done with hand tools or small hand held power tools that are of a depth and design that will not cause root damage.

Where trenching or digging within the TPZ is specifically permitted, the work shall be conducted in a manner that minimizes root damage, as directed by an Arborist as specified.

Grade changes outside of the TPZ shall not significantly alter drainage to protected trees. Grading within the TPZ shall use methods that minimize root damage and ensure that roots are not cut off from air. Where erosion may be a factor return and protect the original grade or otherwise stabilize the soil.

Protected trees shall not be used for posting signs, electrical wires or pulleys; for supporting structures; and shall be kept free of nails, screws, rope, wires, stakes and other unauthorized fastening devices or attachments. Maintain tree protection zones free of weeds and trash.

A. If work must occur within the TPZ (e.g., trenching), use air spade or directional boring to avoid root damage.

B. Roots greater than 2 inches in diameter must not be cut without Arborist approval.

C. Any necessary root pruning must be done cleanly with sterilized tools and ideally performed at a time of year specified by an arborist (preferably during the dormant season), but not restricted of these times of the season.

D. Arborist must inspect TPZ weekly and after any significant weather event.

3.2 Tree Protection Standards

A. Tree Protection Fencing:

I. Fencing must remain in place until all construction activities are complete.

B. Root Protection:

I. Use non-invasive methods for excavation within TPZs, such as air spading or directional boring. Avoid trenching and compaction within TPZs. Any root pruning/disturbance performed under supervision or guidance of an Arborist.

C. Soil Management:

I. Prevent soil compaction and grade changes within TPZs. If compaction occurs, remediate with deep-root aeration or other approved methods.

D. Material Storage:

I. Prohibit storage of construction materials, equipment, or debris within TPZs

E. Pruning of Damaged or Fallen Limbs:

I. Pruning shall be in compliance with the International Society of Arboriculture (ISA) *Tree-Pruning Guidelines.* Climbing gaffs shall not be used on live wood.

II. No live tissue may be removed from protected trees solely for the purpose of altering the appearance of a tree.

F. Mulching for Root Protection

I. Apply 4 inch thickness of organic mulch to mulch areas inside tree protection zones and other areas indicated if there is a need to cross over protected (TPZ) areas.

Part 4 – Post-Construction

4.1. Remove protection fencing only after final inspection.

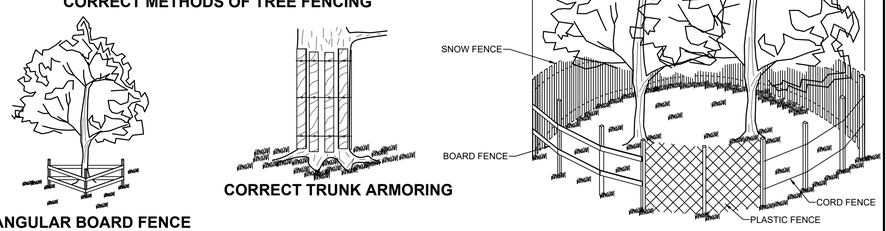
A. Remove excess excavated material and displaced trees from the (TPZ).

4.2 Perform soil aeration and deep-root fertilization if compaction has occurred.

A. Aerate surface soil, compacted during construction, 10 feet beyond the drip line and no closer than 36 inches to the tree trunk using vertical mulching techniques or radial aeration techniques.

4.3 It is recommended that annual monitoring reports be prepared by a licensed Arborist to ensure healthy growth in the future

CORRECT METHODS OF TREE FENCING



TRIANGULAR BOARD FENCE

CORRECT TRUNK ARMORING

1 TREE PROTECTION GUIDELINES
NOT TO SCALE

EDWIN A. ESPINO
No. 2346
06/12/2026
LANDSCAPE ARCHITECT
COMMONWEALTH OF VIRGINIA
NOT FOR CONSTRUCTION

THIS DRAWING PREPARED AT THE
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TEL 434.295.5624 FAX 434.295.8317 www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS.

TIMMONS GROUP

MILLER PARK POOL
THE CITY OF LYNCHBURG
PLANTING SCHEDULES

REVISION DESCRIPTION	DATE

DATE 03/13/2026
DRAWN BY M. RACHNER
DESIGNED BY M. RACHNER
CHECKED BY E. ESPINO
SCALE AS SHOWN

JOB NO. 57972.002
SHEET NO. L3.11

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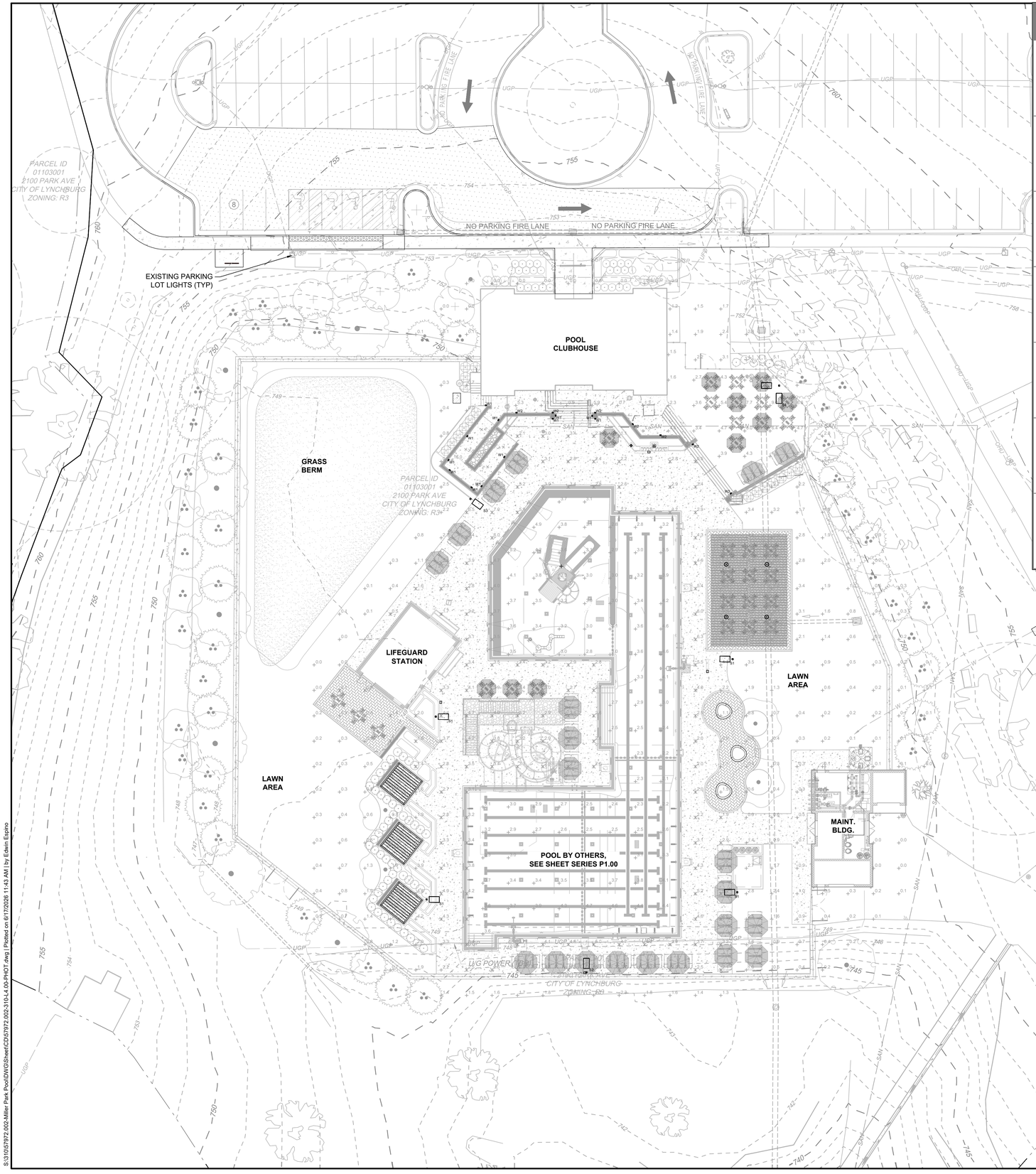

Schedule

Symbol	Label	Image	QTY	Catalog Number	Description	Number Lamps	Lumens per Lamp	LLF	Wattage	Polar Plot
	S1		4	DSX1 LED P5 30K 80CRI TFTM MVOLT RPA FA0 DDBXD / RSS 20' 4B DM19AS DDBXD	D-Series Size 1 Area Luminaire P5 Performance Package 3000K CCT 80 CRI Forward Throw	1	15694	1	138.16	Max: 14140cd
	S2		1	DSX1 LED P5 30K 80CRI T3M MVOLT RPA FA0 DDBXD / RSS 20' 4B DM19AS DDBXD	D-Series Size 1 Area Luminaire P5 Performance Package 3000K CCT 80 CRI Type 3 Medium	1	15357	1	138.16	Max: 12854cd
	S3		1	DSX1 LED P8 30K 80CRI TFTM MVOLT RPA FA0 DDBXD / RSS 20' 4B DM19AS DDBXD	D-Series Size 1 Area Luminaire P8 Performance Package 3000K CCT 80 CRI Forward Throw	1	24951	1	215.77	Max: 22480cd
	S4		1	DSX1 LED P4 30K 80CRI TFTM MVOLT RPA FA0 DDBXD / RSS 20' 4B DM19AS DDBXD	D-Series Size 1 Area Luminaire P4 Performance Package 3000K CCT 80 CRI Forward Throw	1	14272	1	247.88	Max: 12858cd
	C1		4	ORX-2-T5W-DPCL-32L-53-30K7	OUTDOOR AREA LIGHT - STEM MOUNTED AT 9'-6" AFG	1	3584	1	52	Max: 1801cd
	W1		12	WANDER1 SM P1 90CRI 30K MVOLT SW	Single Optic Pathway Light Surface Mount Performance 1 90CRI 3000K Multi-Volt 120V-277V Short Forward, Wide Lateral Distribution	1	319	1	4.38	Max: 191cd
	W2		7	WANDER1 SM P1 90CRI 30K MVOLT LM	Single Optic Pathway Light Surface Mount Performance 1 90CRI 3000K Multi-Volt 120V-277V Long Forward, Medium Lateral Distribution	1	322	1	4.38	Max: 184cd

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #7	+	4.2 fc	9.0 fc	0.7 fc	12.9:1	6.0:1
Main Pool Deck	X	3.3 fc	7.0 fc	0.0 fc	N/A	N/A
Main Pool Surface	+	3.3 fc	5.2 fc	2.1 fc	2.5:1	1.6:1
Ramp - Lower	+	4.2 fc	4.7 fc	3.8 fc	1.2:1	1.1:1
Ramp - Mid	+	20.6 fc	25.2 fc	16.0 fc	1.6:1	1.3:1
Ramp - Upper	+	3.1 fc	3.5 fc	2.7 fc	1.3:1	1.1:1
Small Pool	X	3.7 fc	4.7 fc	2.9 fc	1.6:1	1.3:1

FEDERATED LIGHTING VIRGINIA

PREPARED BY:
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YOUR VISION ACHIEVED THROUGH OURS.

REVISION DESCRIPTION

DATE

DATE: 03/13/2026
DRAWN BY: M. RACHNER
DESIGNED BY: M. RACHNER
CHECKED BY: E. ESPINO
SCALE: 1" = 20'

TIMMONS GROUP

MILLER PARK POOL

THE CITY OF LYNCHBURG

PHOTOMETRIC PLAN

JOB NO. 57972.002

SHEET NO. L4.00

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D-Series Size 1

LED Area Luminaire

DLC LISTED PREMIUM · DLC LISTED · NIGHTTIME FRIENDLY · ida · ds · BAA · BABA

Catalog Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

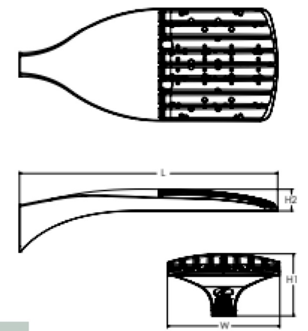
Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Specifications

EPA:	0.69 ft² (0.06 m²)
Length:	32.71" (83.1 cm)
Width:	14.26" (36.2 cm)
Height H1:	7.88" (20.0 cm)
Height H2:	2.73" (6.9 cm)
Weight:	34 lbs (15.4 kg)



ds Design Select options indicated by this color background.

ds design select

Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.
*See ordering tree for details

Ordering Information

EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX1 LED						
Series	LEDs	Color temperature²	Color Rendering Index²	Distribution	Voltage	Mounting
DSX1 LED	Forward optics: P1, P2, P3, P4, P5, P6, P7, P8, P9; Rotated optics: P10¹, P11¹, P12¹, P13¹	(this section 70CRI only) 30K 3000K; 40K 4000K; 50K 5000K; 27K 2700K; 30K 3000K; 35K 3500K; 40K 4000K; 50K 5000K	70CRI; 70CRI; 70CRI; 80CRI; 80CRI; 80CRI; 80CRI; 80CRI	AFR Automotive front row; T1S Type I short; T2M Type II medium; T3M Type III medium; T3LG Type III low glare³; T4M Type IV medium; T4LG Type IV low glare³; TFTM Forward throw medium; T5M Type V medium; T5LG Type V low glare; T5W Type V wide; BLC3 Type III backlight control³; BLC4 Type IV backlight control³; LCCO Left corner cutoff³; RCCO Right corner cutoff³	MVOLT (120V-277V)⁴; HVOLT (347V-480V)⁵,⁶; XVOLT (277V - 480V)⁷,⁸; 120¹⁶,²⁶; 208¹⁶,²⁶; 240¹⁶,²⁶; 277¹⁶,²⁶; 347¹⁶,²⁶; 480¹⁶,²⁶	Shipped included: SPA Square pole mounting (#8 drilling); RPA Round pole mounting (#8 drilling); SPA5 Square pole mounting #5 drilling⁹; RPA5 Round pole mounting #5 drilling⁹; SPA8N Square narrow pole mounting #8 drilling; WBA Wall bracket¹⁰; MA Mast arm adapter (mounts on 2 3/8" OD horizontal tenon)

Control options		Other options	Finish (required)
Shipped installed: NLTAIR2 PIRHN nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc ¹¹,¹²,²⁰,²¹; PIR High/low, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc ¹³,²⁰,²¹; PER NEMA twist-lock receptacle only (controls ordered separate)¹⁴; PER5 Five-pin receptacle only (controls ordered separate)¹⁴,²¹	PER7 Seven-pin receptacle only (controls ordered separate)¹⁴,²¹; FAO Field adjustable output¹⁵,²¹; BL30 Bi-level switched dimming, 30%¹⁶,²¹; BL50 Bi-level switched dimming, 50%¹⁶,²¹; DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately)¹⁷; DS Dual switching¹⁸,¹⁹,²¹	Shipped installed: SPD20KV 20KV surge protection; HS Houseside shield (black finish standard)²²; L90 Left rotated optics¹; R90 Right rotated optics¹; CCE Coastal Construction²³; HA 50°C ambient operation²⁴; BAA Buy America(n) Act and/or Build America Buy America Qualified; SF Single fuse (120, 277, 347V)²⁶; DF Double fuse (208, 240, 480V)²⁶. Shipped separately: EGSR External Glare Shield (reversible, field install required, matches housing finish); BSDB Bird Spikes (field install required)	DDBXD Dark Bronze; DBLXD Black; DNAXD Natural Aluminum; DWHXD White; DDBTXD Textured dark bronze; DBLBXD Textured black; DNATXD Textured natural aluminum; DWHGXD Textured white

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Ordering Information

Accessories

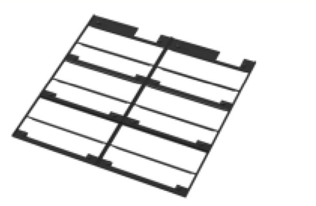
Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V)²⁵
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V)²⁵
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V)²⁵
DSHORT SBK	Shorting cap²⁵
DSX1HS P#	House-side shield (enter package number 1-13 in place of #)
DSXRPA (FINISH)	Round pole adapter (#8 drilling, specify finish)
DSXSPA5 (FINISH)	Square pole adapter #5 drilling (specify finish)
DSXRPA5 (FINISH)	Round pole adapter #5 drilling (specify finish)
DSX1EGSR (FINISH)	External glare shield (specify finish)
DSX1BSDB (FINISH)	Bird spike deterrent bracket (specify finish)

NOTES
1. Rotated optics available with packages P10, P11, P12 and P13. Must be combined with option L90 or R90.
2. 30K, 40K, and 50K available in 70CRI and 80CRI. 27K and 35K only available with 80CRI. Contact Technical Support for other possible combinations.
3. T3LG, T4LG, BLC3, BLC4, LCCO, RCCO not available with option HS.
4. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
5. HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
6. HVOLT not available with package P1 and P10 when combined with option NLTAIR2 PIRHN or option PIR.
7. XVOLT operates with any voltage between 277V and 480V (50/60 Hz).
8. XVOLT not available in packages P1 or P10. XVOLT not available with P1 ,P2, P5, P7, P9, P10, P11 and P13 when combined with option NLTAIR2 PIRHN or PIR. XVOLT not available with fusing (SF or DF).
9. SPA5 and RPA5 for use with #5 drilling only (Not for use with #8 drilling).
10. WBA cannot be combined with Type 5 distributions plus photocell (PER).
11. NLTAIR2 and PIRHN must be ordered together. For more information on nLight AIR2 visit this link
12. NLTAIR2 PIRHN not available with other controls including PIR, PER, PER5, PER7, FAO, BL30, BL50, DMG and DS. NLTAIR2 PIRHN not available with P1 and P10 using HVOLT.
13. PIR not available with NLTAIR2 PIRHN, PER, PER5, PER7, FAO BL30, BL50, DMG and DS.
14. PER/PER5/PER7 not available with NLTAIR2 PIRHN, PIR, BL30, BL50, FAO, DMG and DS. Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
15. FAO not available with other dimming control options NLTAIR2 PIRHN, PIR, PER5, PER7, BL30, BL50, DMG and DS.
16. BL30 and BL50 are not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, FAO, DMG and DS. BL30 or BL50 must specify 120 or 277V.
17. DMG not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DS.
18. DS not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DMG.
19. DS requires (2) separately switched circuits. DS provides 50/50 fixture operation via (2) different sets of leads using (2) drivers. DS only available with packages P8, P9, P10, P11, P12 and P13.
20. Reference Motion Sensor Default Settings table on page 4 to see functionality.
21. Reference Controls Options table on page 4.
22. HS not available with T3LG, T4LG, BLC3, BLC4, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
23. CCE option not available with option BS and EGSR. Contact Technical Support for availability.
24. Option HA not available with performance packages P4, P5, P7, P8, P9 and P13.
25. Requires luminaire to be specified with PER, PER5 or PER7 option. See Controls Table on page 4.
26. Single fuse (SF) requires 120V, 277V, or 347V. Double fuse (DF) requires 208V, 240V or 480V. XVOLT not available with fusing (SF or DF).

Shield Accessories

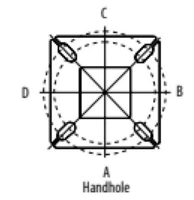
External Glare Shield (EGSR)

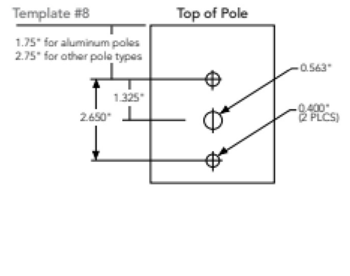


House Side Shield (HS)

Drilling

HANDHOLE ORIENTATION





Tenon Mounting Slipfitter

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 90	3 @120	4 @ 90
2-3/8"	RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 390	AS3-5 320	AS3-5 490
2-7/8"	RPA	AST25-190	AST25-280	AST25-290	AST25-390	AST25-320	AST25-490
4"	RPA	AST35-190	AST35-280	AST35-290	AST35-390	AST35-320	AST35-490

Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS
Minimum Acceptable Outside Pole Dimension							
SPA	#8	3.5"	3.5"	3.5"	3.5"		3.5"
RPA	#8	3"	3"	3"	3"	3"	3"
SPA5	#5	3"	3"	3"	3"		3"
RPA5	#5	3"	3"	3"	3"	3"	3"
SPA8N	#8	3"	3"	3"	3"		3"

DSX1 Area Luminaire - EPA

*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX1 with SPA	0.69	1.38	1.23	1.54	—	1.58
DSX1 with SPA5, SPA8N	0.70	1.40	1.30	1.66	—	1.68
DSX1 with RPA, RPA5	0.70	1.40	1.30	1.66	1.60	1.68
DSX1 with MA	0.83	1.66	1.50	2.09	2.09	2.09

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LITHONIA LIGHTING®

Catalog Number

Notes

Type

Anchor Base Poles

RSS

ROUND STRAIGHT STEEL

BAA BABA

FEATURES & SPECIFICATIONS

INTENDED USE — **These specifications are for USA standards only.** Round Straight Steel is a general purpose light pole for up to 30-foot mounting heights. This pole provides a robust yet cost effective option for mounting area lights and floodlights.

CONSTRUCTION —

Pole Shaft: The pole shaft is of 0.120" uniform wall thickness and is made of a weldable-grade, hot-rolled, commercial-quality steel tubing with a minimum yield of 42,000 psi. Shaft is one-piece with a full-length longitudinal high-frequency electric resistance weld. Uniformly round in cross-section down length of shaft with no taper. Standard shaft diameters are 3", 4", 4.5" and 5". 6" diameter shaft available by quote. Shaft wall thickness of .180" is available with certain tube diameters.

Pole Top: Options include tenon top, drilled for side mount fixture, 4" tenon with drilling (includes extra handhole) and open top. Side drilled and open top poles include a removable press-fit, black, low density polyethylene top cap.

Handhole: A reinforced handhole with grounding provision is provided at 12" or 18" from the base end of the pole assembly on side A. Every handhole includes a cover and cover attachment hardware. 2.5" x 5" rectangular handhole is provided on pole.

Base Cover: A two-piece ABS round plastic full base cover is provided with each pole assembly. Additional base cover options are available upon factory request. Options include fabricated two-piece sheet steel. All base covers are finished to match pole.

Anchor Base/Bolts: Anchor base is fabricated from hot-rolled carbon steel plate that conforms with ASTM A36. Anchor bolts conform to ASTM F1554 Grade 55 and are provided with two hex nuts and two flat washers. Bolts have an "L" blend on one end. All anchor bolts are hot-dipped galvanized a minimum of 12" nominal on the threaded end. Anchor bolts are made of steel rod having a minimum yield strength of 55,000 psi and a yield strength of 75,000 psi to 95,000 psi.

HARDWARE – All structural fasteners are high-strength galvanized carbon steel. All non-structural fasteners are galvanized or zinc-plated carbon steel or stainless steel.

FINISH – Extra durable standard powder-coat finishes include Dark Bronze, White, Black, Medium Bronze and Natural Aluminum colors. Classic finishes include Sandstone, Charcoal Gray, Tennis Green, Bright Red and Steel Blue colors. Architectural Colors and Special Finishes are available by quote and include, but are not limited to Hot-dipped Galvanized, Paint over Hot-dipped Galvanized, RAL Colors, Custom Colors and Extended Warranty Finishes. Factory-applied primer paint finish is available for customer field-paint applications.

GOVERNEMENT PROCUREMENT —
BAA – Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations.
BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act.
Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY — 1-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

NOTE: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

RSS Round Straight Steel Pole

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative. **Example:** RSS 20 4-5B DM32AS DDBXD

RSS					
Series	Nominal fixture mounting height	Nominal shaft base size/wall thickness¹	Mounting²	Options	Finish
RSS	8'-30' (for 1/2 ft increments, add -6 to the pole height. **Ex:** 20-6 equals 20ft 6in.) (See technical information table for complete ordering information.)	3B 3" 11ga (.120"); 4B 4" 11ga (.120"); 4-5B 4.5" 11ga (.120"); 5B 5" 11ga (.120") (See technical information table for complete ordering information.)	Tenon mounting: PT Open top; T20 2-3/8" O.D. (2" NPS); T25 2-7/8" O.D. (2-1/2" NPS); T30 3-1/2" O.D. (3" NPS); T35 4" O.D. (3-1/2" NPS). DSX/RSX/OMERO™ Drill mounting³: DM19AS 1 at 90°; DM28AS 2 at 180°; DM29AS 2 at 90°; DM32AS 3 at 120°; DM39AS 3 at 90°; DM49AS 4 at 90°. RAD drill mounting³,⁴: DM19RAD 1 at 90°; DM28RAD 2 at 180°; DM29RAD 2 at 90°; DM32RAD 3 at 120°; DM39RAD 3 at 90°; DM49RAD 4 at 90°. ESX Drill mounting³: DM19ESX 1 at 90°; DM28ESX 2 at 180°; DM29ESX 2 at 90°; DM32ESX 3 at 120°; DM39ESX 3 at 90°; DM49ESX 4 at 90°. Arm drill mounting: To be added as series + drill orientations. **EX:** SMAC19 for SMAC arm drilling 1 at 90°	Shipped installed: VD Vibration damper⁵; JHxy J-Hook for cable strain relief⁶; HAxy Horizontal arm bracket (1 fixture)⁶,⁷; FDLxy Festoon outlet less electrical⁶,⁸; FDLGFCIxy Festoon with GFCI outlet and in-use cover⁶,⁹; CPL12/xy 1/2" coupling⁶; CPL34/xy 3/4" coupling⁶; CPL1/xy 1" coupling⁶; NPL12/xy 1/2" threaded nipple⁶; NPL34/xy 3/4" threaded nipple⁶; NPL1/xy 1" threaded nipple⁶; EHHxy Extra handhole⁶,¹⁰; STLHHC Steel handhole cover (standard is plastic, finish is smooth)¹¹; FBCSTL2PC 2 Piece steel base cover (standard is plastic)¹¹; IC Interior coating¹²; L/AB Less anchor bolts (Include when anchor bolts are not needed); TP Tamper resistant handhole cover fasteners; NEC NEC 410.30 compliant gasketed handhole (Not UL Labeled); UL UL listed with label (Includes NEC compliant cover); BAA Buy America(n) Act Compliant¹³; VM/original order# Match pole to prior order or project¹⁴	Super durable paint colors: DDBXD Dark bronze; DBLXD Black; DNAXD Natural aluminum; DWHXD White; DSSXD Sandstone; DGCXD Charcoal gray; DTGXD Tennis green; DBRXD Bright red; DSBXD Steel blue; DDBTXD Textured dark bronze; DBLBXD Textured black; DNATXD Textured natural aluminum; DWHGXD Textured white. Other finishes: GALV Galvanized finish. Architectural colors and special finishes¹⁵: [PAINT] GALV Paint over galvanizing; VP30 3 year warranty extension; VP53 5 year warranty extension; RAL#### Use designated Lithonia Lighting nomenclature in brochure; Custom color Nomenclature assigned through Customer Care "Custom Color Process"

Accessories: *Order as separate catalog number.*	
PL DT20	Plugs for ESX drillings
PL DT8	Plugs for DMxxAS drillings
FVD xxFT	Field installed vibration damper (snake style)

NOTES:
1. Wall thickness will be signified with a "B" (11 Gauge) or a "F" (7-Gauge) in nomenclature. "B" - .120" | "F" - .180"
2. PT open top poles include top cap. When ordering tenon mounting and drill mounting for the same pole, specify as drilling option/tenon option. The combination includes a required extra handhole. *Example: DM28/T20.*
3. Refer to the fixture spec sheet for the correct drilling template pattern and orientation compatibility.
4. DM19RAD, DM28RAD and DM32RAD require a minimum top O.D. of 4". DM29RAD, DM39RAD and DM49RAD require a minimum top O.D of 4.25".
5. VD not available with 3" pole. On 4" and 5" poles, VD cannot be installed if provisions (EHH, FDL, NPL, CPL) are located higher than 2/3 of the pole's total height. *Example: Pole height is 25ft, A provision cannot be placed above 16ft.*
6. Specify location and orientation when ordering option.
For "x": Specify the height above the base of pole in feet or feet and inches; separate feet and inches with a "-". *Example: 5ft = 5 and 20ft 3in = 20-3*
For "y": Specify orientation from handhole (A,B,C,D) Refer to the Handhole Orientation diagram below. *Example: 1/2" coupling at 5'8", orientation C = CPL12/5-8C*
7. Horizontal arm is 18" x 2-3/8" O.D. tenon standard, with radius curve providing 12" rise and 2-3/8" O.D. If ordering two horizontal arm at the same height, specify with HAxyy. *Example: HA20BD.*
8. FDL does not come with GFCI outlet or handhole cover. These must be supplied by contractor or electrician.
9. Festoon option that comes with GFCI and in-use cover. GFCI and in-use cover ship separately from pole.
10. Combination of tenon-top and drill mount includes extra handhole. EHH includes cover.
11. Plastic hand hole cover and base covers come standard with all poles. Items ship separately. Additional parts can be ordered as replacements.
12. N/A with GALV.
13. Use when mill certifications are required.
14. 14. Must add original order number. Not for replacement parts or post sales issues, contact tech support or post sales teams. VM is used to ensure poles match in appearance exactly from order to order, on a single project site. A common use case would be a multi-phase project with multiple orders. *Example: VM/010-36784*
15. Must be quoted through AQD. Finishes do not require RFA. RAL colors available are shown in "Architectural Colors brochure". Lead times may be extended up to 2 weeks due to paint procurement.

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NLS LIGHTING

ORGANIX ORX-2-CM

ARCHITECTURAL CEILING MOUNT

LED WATTAGE CHART

Drive Current	16L	32L	64L	64L VCS
350 milliamps	–	34W (3439-4294 Lumens)	68W (6316-7584 Lumens)	68W (4830-5643 Lumens)
400 milliamps	18W (1579-1896)	–	–	–
530 milliamps	26W (2391-2871)	52W (5208-6502 Lumens)	103W (8955-11485 Lumens)	103W (7315-8545 Lumens)
700 milliamps	34W (3158-3792)	68W (6879-8588 Lumens)	137W (11827-15168 Lumens)	137W (9046-12286 Lumens)
1000 milliamps	–	–	200W (18118-21669 Lumens)	200W (12992-16123 Lumens)
1050 milliamps	51W (4737-5688)	102W (10318-12882 Lumens)	–	
1250 milliamps	–	125W (10560 - 13543 Lumens)	–	
1400 milliamps	–	140W (11827-15168 Lumens)	–	

FORM
- Elegant Die-Cast Aluminum Housing
- Corrosion Resistant Stainless Steel External Hardware
- Sleek, Low Profile Housing
- Spec Grade Performance
- Engineered For Optimum Thermal Management
- 9 Architectural Finishes Standard, RAL Colors Available

FUNCTION
- Optics Distributions TE, T3DL, T4M, T5, T4FTW, T5W, VCS & VCA
- 0-10V Dimming Drivers
  THD @ Max Load < 15%
  Power factor @ Max Load < 0.95
- Amber, 2700K, 3000K, 3500K, 4000K, or 5000K
- 16L, 32L, or 64L LED Configuration
- CRI 70, 80, or 90
- 5 Mil Powder Coat
- Up to 21,669 Lumens

RELIABILITY
- Silicone Micro Optics
- 5 Year Standard Warranty
- IP67 Optics
- IP66 Fixture
- UL924 Emergency Relay

BUY AMERICAN
To ensure the latest BAA/TAA/BABA Standards are being met, please select BAA, TAA, or BABA in the options section. Please contact the factory before placing an order for any NLS products requesting BAA (Buy American Act), TAA (Trade Agreement Act), or BABA (Build America, Buy America).

PROUDLY MADE IN THE USA

Project Name: | Type:

ORGANIX - 2 CEILING MOUNT ORDERING GUIDE

Cat#	Light Dist.	# of LEDs	Miliamps	Kelvin	Volts
Organix - 2 Ceiling Mount **(ORX-2)**	Concentrated Entry **(TE)**; Type 3 Drive Lane **(T3DL)**; Type 4 Medium **(T4M)**; Type 4 Forward Throw Wide **(T4FTW)**; Type 5 Optimized **(T5)**; Type 5 Wide **(T5W)**; **Back Lit with Lens**: Visual Comfort Symmetric **(VCS)** 7, 10, 14; Visual Comfort Assymetric **(VCA)** 7, 10, 14	16 **(16L)**; 32 **(32L)**; 64 **(64L)**	350 **(35)**; 400 **(40)** 11; 530 **(53)**; 700 **(7)**; 1000 **(1A)**; 1050 **(1)** 8; 1250 **(12)** 15; 1400 **(14)** 15	Amber 585-600nM **(AMBER)** 5, 13, 16, 20; 2700K, 70 CRI **(27K7)** 20; 2700K, 80 CRI **(27K8)** 1, 20; 3000K, 70 CRI **(30K7)** 20; 3000K, 80 CRI **(30K8)** 1, 20; 3500K, 80 CRI **(35K8)**; 4000K, 70 CRI **(40K7)**; 4000K, 80 CRI **(40K8)** 1; 5000K, 70 CRI **(50K7)**; 5000K, 80 CRI **(50K8)** 1	120-277 **(UNV)**; 347-480 **(HV)**

Mounting	Color	Controls Options	Options	Lens Options
Ceiling Mount **(CM)**; Pendant Mount 12" Length **(PM12)**; Pendant Mount 24" Length **(PM24)**; Pendant Mount 36" Length **(PM36)**; Pendant Mount Custom Length **(PMX)**	Bronze Textured **(BRZ)**; White Textured **(WHT)**; Smooth White Gloss **(SWT)**; Silver Metallic **(SVR)**; Black Textured **(BLK)**; Smooth Black Gloss **(SBK)**; Graphite Textured **(GPH)**; Grey Textured **(GRY)**; Green Textured **(GRN)**; Hunter Green Textured **(HGN)**; Custom **(CS)**	FSP-211 with Motion Sensor/Photocell 9'-20' Heights **(FSP211-20)** 2, 18; 21'-40' Heights **(FSP211-40)** 2, 18; FSP-221 with Motion Sensor/Photocell 9'-20' Heights **(FSP221-20)** 19; 21'-40' Heights **(FSP221-40)** 19; DALI-2 **(D2)** 3; UL924-EMR **(UL924)**; Custom Controls Integration **(CCI)** 4; FSP Remote **(FSIR)** 12	Marine Grade Finish **(MGF)**; Bird Spikes **(BS)**; House Side Shield **(HSS)** 9; Single Fuse **(SF)**; Double Fuse **(DF)**; Up Light **(UPL)** 17; Tamper Proof Hardware **(TPH)** 3; Bird Shroud **(BSC)**; 5 Conductor Dimming Leads **(DL)**; Black Optic Frame **(BOF)** 3; Buy American Act **(BAA)** 6; Trade Agreement Act **(TAA)** 6; Build America Buy American **(BABA)** 6; Wire Guard **(WG)**; Emergency Battery 4W **(EM4)**; Emergency Battery 8W **(EM8)**	Diffused Polycarbonate Visual Comfort Lens **(DPCL)** 14, 22, 23; Clear Tempered Glass Lens **(CTG)** 14, 22, 23; HAL Lens **(HAL)** 3, 21, 22, 23

NOTES:
1. Consult Factory for Lead Time. Consult Factory for 90 CRI Requests
2. Universal Voltage 120-277
3. Consult Factory
4. Please contact Factory for Custom Control Integration requests (nLight, NX, WaveLinx, Crestron, DMX/RDM, Synapse, Casambi, Dali II, Avi-On, or other control systems)
5. Turtle Safe
6. Consult factory for all BAA/TAA/BABA requests
7. Backlit with Diffused Lens 64L Only
8. Not Available In 64L
9. Not Available with Lens Options (VCA, VCS, DPCL, CTG)
10. Not Available with Motion Sensors
11. 16L Only
12. Projects with sensors require Qty. 1 FSIR per project
13. Not Available above 530mA
14. DPCL & CTG lenses are for use with TE, T3LD, T4M, or T5. VCA & VCS comes with a diffused lens. Product with Lens have a 700 max drive current
15. Available only in 32L
16. Consult Factory for Lead Time
17. UPL Driver current is 800mA max
18. FSP-211, 120V/277V, 230-240VAC (single phase), 50/60Hz
19. FSP-221, 100~347VAC (single phase) or 208/230/480VAC (phase-to-phase)
20. 3000K or lower, with fixed mounting options only, must be selected to meet International Dark-Sky Association certification.
21. HAL Lens: Yellow Polycarbonate Lens - less than 2% Blue Light Content
22. Motion Sensors are sidecar mounted for lensed fixtures
23. 700mA Max For Lens Options

HYDREL

CATALOG NUMBER

NOTES

TYPE

WANDER

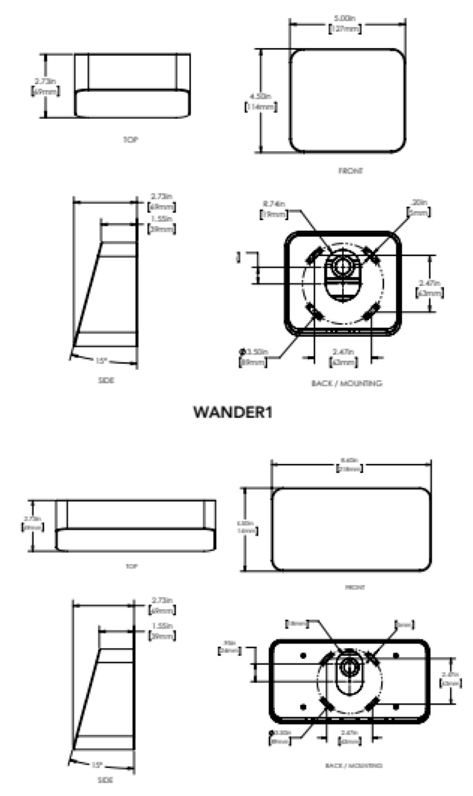
Pathway and Step Light Family Surface Mount

HIGHLIGHTS

- Available in 2 sizes and can be mounted downward facing for pathway and step applications or upward facing for indirect lighting applications
- Sturdy die-cast body with IK10 impact rating
- Mounts to standard 4" octagonal j-box (provided by others)
- Integral driver
- IP66 Rated
- Precision acrylic optic available in 3 tailored distributions
- Industry leading performance with up to 1000 delivered lumens
- Ideal solution for retrofit applications
- Achieve excellent uniformity and meet egress lighting requirements with fixture spacings of up to 16' on-center (18" mounting height).
- Fully shielded, BUG U-0 rating
- ADA-compliant design
- 3G vibration rated per ANCI C136.31
- DarkSky Approved Pedestrian Comfort Luminaire when the LED surface is mounted below 1.2m (4 feet) and in a downward position.

5 YEAR warranty · 66 IP RATED · BAA · BABA · IK10 · DarkSky Approved Pedestrian Comfort Luminaire

DIMENSIONS



WANDER1

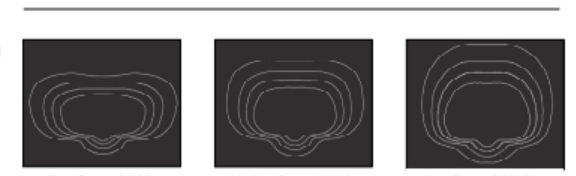
WANDER3

PERFORMACE SUMMARY

Model	Performance Package	Distribution	Delivered Lumens	Watts	LPW
WANDER1	P1	SW	353	4.4	80
		MW	357	4.4	81
		LM	356	4.4	81
WANDER3	P1	SW	1200	12.7	94
		MW	1190	12.7	94
		LM	1192	12.7	94

Note: Information based on 4000K

STANDARD DISTRIBUTION



Short Forward, Wide Lateral Distribution (SW) · Medium Forward, Wide Lateral (MW) · Long Forward, Medium Lateral Distribution (LM)

ORDERING INFORMATION

EXAMPLE: WANDER1 SM P1 90CRI 27K MVOLT LM ZT BL

Model*	Style*	Performance Package*	CRI	Color Temperature*	Voltage*	Distribution*
WANDER1 One Optic Pathway Light; WANDER3 Three Optic Pathway Light	SM Surface Mount (Octagon box by others)	P1	90CRI *Note: 90CRI is only required with 27K, 30K, 35K and 40K*	27K 2700K; 30K 3000K; 35K 3500K; 40K 4000K; AMBLW Amber Limited Wavelength 590nm; RED Red; GRN Green; BLU Blue	MVOLT MultiVolt 120V thru 277V	SW Short Forward, Wide Lateral Distribution; MW Medium Forward, Wide Lateral Distribution; LM Long Forward, Medium Lateral Distribution

Control Input*	Finish*	
ZT 0-10V Dimming (Dims to Dark); ELV Reverse Phase	BL Black Textured; BRS Bronze Smooth; BRT Bronze Textured; DBL Designer Black Smooth; DDB Designer Bronze Smooth; DNA Natural Aluminum Smooth	NBS Natural Bronze Smooth; WH White Textured; WHS White Smooth; _Z¹ Zinc Undercoat for harsh environment (Example BLZ); CF; RALTBD² Ral Paint Finishes. *Note: Additional standard finish options available. See page 5*

Note: * is required field.

Notes:
1. Zinc Undercoat provides corrosion protection for Marine Environment and Natatorium Construction
2. RALTBD for pricing only, replace with applicable RAL call out when ready to order. See the RALBROCHURE for available options. It is recommended that Hydrel products only use textured paint.

FEDERATED LIGHTING VIRGINIA

PREPARED BY:
FEDERATE LIGHTING VIRGINIA
CONTACT: BRIAN PRITHAM
1802 SUMMIT AVE.,SUITE #300
Richmond, VA 23230
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THIS DRAWING PREPARED AT THE **CHARLOTTESVILLE OFFICE**
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YOUR VISION ACHIEVED THROUGH OURS.

REVISION DESCRIPTION | DATE

DATE	03/13/2026
DRAWN BY	M. RACHNER
DESIGNED BY	M. RACHNER
CHECKED BY	E. ESPINO
SCALE	N.A.

TIMMONS GROUP

MILLER PARK POOL
THE CITY OF LYNCHBURG
LIGHTING CUT SHEETS

JOB NO.	57972.002
SHEET NO.	L4.10

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S:\310\57972.002-Miller Park Pool\DWG\Sheet\CD\57972.002-310-L4.10x-LGHT-CUTS.dwg | Plotted on 6/17/2026 11:43 AM | by Edwin Espino

LITHONIA LIGHTING®

Catalog Number

Notes

Type

FEATURES & SPECIFICATIONS

INTENDED USE — These specifications are for USA standards only. Round Straight Steel is a general purpose light pole for up to 30-foot mounting heights. This pole provides a robust yet cost effective option for mounting area lights and floodlights.

CONSTRUCTION —

Pole Shaft: The pole shaft is of 0.120" uniform wall thickness and is made of a weldable-grade, hot-rolled, commercial-quality steel tubing with a minimum yield of 42,000 psi. Shaft is one-piece with a full-length longitudinal high-frequency electric-resistance weld. Uniformly tapered in cross-section down length of shaft with no taper. Standard shaft diameters are 3", 4", 4.5" and 5"-6" diameter shaft available by quote. Shaft wall thickness of .180" is available with certain tube diameters.

Pole Top: Options include tenon top, drilled for slip fitter mount, 4" tenon with drilling (includes extra handhole) and open top. Side drilled and open top poles include a removable press-fit, black, low density polyethylene top cap.

Handhole: A reinforced handhole with grounding provision is provided at 12" or 18" from the base end of the pole assembly on side A. Every handhole includes a cover and cover attachment hardware. 2.5" x 5" rectangular handhole is provided on pole.

Base Cover: A two-piece ABS round plastic full base cover is provided with each pole assembly. Additional base cover options are available upon factory request. Options include fabricated two-piece sheet steel. All base covers are finished to match pole.

Anchor Base/Bolts: Anchor base is fabricated from hot-rolled carbon steel plate that conforms with ASTM A36. Anchor bolts conform to ASTM F1554 Grade 55 and are provided with two hex nuts and two flat washers. Bolts have a "L" bend on one end. All anchor bolts are hot-dipped galvanized a minimum of 12" nominal on the threaded end. Anchor bolts are made of steel not having a minimum yield strength of 55,000 psi and a yield strength of 75,000 psi to 95,000 psi.

HARDWARE — All structural fasteners are high-strength galvanized carbon steel. All non-structural fasteners are galvanized or zinc-plated carbon steel or stainless steel.

FINISH – Extra durable standard powder-coat finishes include Dark Bronze, White, Black, Medium Bronze and Natural Aluminum colors. Classic finishes include Sandstone, Charcoal Gray, Tennis Green, Bright Red and Steel Blue colors. Architectural Colors and Special Finishes are available by quote and include, but are not limited to Hot-dipped Galvanized, Paint over Hot-dipped Galvanized, RAL Colors, Custom Colors and Extended Warranty Finishes. Factory-applied primer paint finish is available for customer field-paint applications.

GOVERNEMENT PROCUREMENT —

BAA – Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations.

BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act.

Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY — 1-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

NOTE: Actual performance may differ as a result of end-user environment and application.
Specifications subject to change without notice.

Anchor Base Poles

RSS

ROUND STRAIGHT STEEL

BAA BABA

RSS Round Straight Steel Pole

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative. **Example:** RSS 20 4-5B DM32AS DDBXD

RSS Series	Nominal fixture mounting height	Nominal shaft base size/wall thickness [1]	Mounting[2]	Options		Finish	
RSS	8'-30' (for 1/2 ft increments, add -6 to the pole height. **Ex:** 20-6 equals 20ft 6in.)	3B 3" 11ga (.120")	Tenon mounting	Shipped installed		Super durable paint colors	
		4B 4" 11ga (.120")	PT Open top	VD	Vibration damper[3]	DDBXD	Dark bronze
		4-5B 4.5" 11ga (.120")	T20 2-3/8" O.D. (2" NPS)	HAxy	J-Hook for cable strain relief[4]	DBLXD	Black
	(See technical information table for complete ordering information.)	5B 5" 11ga (.120")	T25 2-7/8" O.D. (2-1/2" NPS)	HKxy	Horizontal arm bracket (1 fixture)[5,6]	DNAXD	Natural aluminum
		(See technical information table for complete ordering information.)	T30 3-1/2" O.D. (3" NPS)	FDLxy	Festoon outlet less electrical[4,6]	DWHXD	White
			T35 4" O.D. (3-1/2" NPS)	FDLGFCxy	Festoon with GFCI outlet and in-use cover[4,6]	DSSXD	Sandstone
			DSX/RSX/CMERO™ Drill mounting [7]			DGCXD	Charcoal gray
			DM19AS 1 at 90°	CPLYxy	1/2" coupling[4]	DTGXD	Tennis green
			DM28AS 2 at 180°	CPLX4/xy	3/4" coupling[4]	DBRXD	Bright red
			DM29AS 2 at 90°	CPLY/xy	1" coupling[4]	DSBXD	Steel blue
			DM32AS 3 at 120°	NPL12/xy	1/2" threaded nipple[4]	DDBTXD	Textured dark bronze
			DM39AS 3 at 90°	NPL34/xy	3/4" threaded nipple[4]	DBLBXD	Textured black
			DM49AS 4 at 90°	NPL1/xy	1" threaded nipple[4]	DNATXD	Textured natural aluminum
			RAD drill mounting [8,9]	EHHxy	Extra handhole[4,10]	DWHGXD	Textured white
			DM19RAD 1 at 90°			Other finishes	
			DM28RAD 2 at 180°	STLHHC	Steel handhole cover (standard is plastic, finish is smooth)[11]	GALV	Galvanized finish
			DM29RAD 2 at 90°			Architectural colors and special finishes[12]	
			DM32RAD 3 at 120°	FBCSTLZPC	2-Piece steel base cover (standard is plastic)[11]	[PAINT] GALV	Paint over galvanizing
			DM39RAD 3 at 90°	IC	Interior coating[13]	VP30	3 year warranty extension
			DM49RAD 4 at 90°	L/AB	Less anchor bolts (Include when anchor bolts are not needed)	VP53	5 year warranty extension
			ESX Drill mounting [7]			RAL####	Use designated Lithonia Lighting nomenclature in brochure
			DM19ESX 1 at 90°	TP	Tamper resistant handhole cover fasteners	Custom color	Nomenclature assigned through Customer Care "Custom Color Process"
			DM28ESX 2 at 180°				
			DM29ESX 2 at 90°	NEC	NEC 410.30 compliant gasketed handhole (Not UL Labeled)		
			DM32ESX 3 at 120°				
			DM39ESX 3 at 90°	UL	UL listed with label (Includes NEC compliant cover)		
			DM49ESX 4 at 90°				
			Arm drill mounting	BAA	Buy America(n) Act Compliant[14]		
			To be added as series + drill orientations **EX:** SMAC19 for SMAC arm drilling 1 at 90°	YM/original order#	Match pole to prior order or project[15]		

Accessories: *Order as separate catalog number.*

PL DT20	Plugs for ESX drillings
PL DT8	Plugs for DMxxAS drillings
FVD xxFT	Field installed vibration damper (*xx*ake style)

NOTES:
1. Wall thickness will be signified with a "B" (11 Gauge) or a "5" (7-Gauge) in nomenclature. "B" - .120" | "5" - .180"
2. PT open top poles include top cap. When ordering tenon mounting and drill mounting for the same pole, specify as drilling option/tenon option. The combination includes a required extra handhole. *Example:* DM28/T20.
3. Refer to the fixture spec sheet for the correct drilling template pattern and orientation compatibility.
4. DM19RAD, DM28RAD and DM32RAD require a minimum top O.D. of 4". DM29RAD, DM39RAD and DM49RAD require a minimum top O.D of 4.25".
5. YD not available with 3" pole. On 4" and 5" poles, YD cannot be installed if provisions (EHH, FDL, NPL, CPL) are located higher than 2/3 of the pole's total height. *Example: Pole height is 25ft, A provision cannot be placed above 16ft.*
6. Specify location and orientation when ordering option. **For "x":** Specify the height above the base of pole in feet or feet and inches; separate feet and inches with a "-". *Example:* 5ft = 5 and 20ft 3in = 20-3 **For "y":** Specify orientation from handhole (A,B,C,D). Refer to the Handhole Orientation diagram below. *Example:* 5'2" mounting at 3" B", orientation C = 05/2/3-BC
7. Horizontal arm is 18" x 2-3/8" O.D. tenon standard, with radius curve providing 12" rise and 2-3/8" O.D. If ordering two horizontal arm at the same height, specify with HAxy. *Example:* HA30RD.
8. FDL does not come with GFCI outlet or handhole cover. These must be supplied by contractor or electrician.
9. Festoon option that comes with GFCI and in-use cover. GFCI and in-use cover ship separately from pole.
10. Combination of tenon top and drill mount includes extra handhole. EHH includes cover.
11. Plastic hand hole cover and base covers come standard with all poles, items ship separately. Additional parts can be ordered as replacements.
12. N/A with GALV.
13. Use when mill certifications are required.
14. TAA: Must add original order number. Not for replacement parts or post sales issues, contact tech support or post sales teams. VM is used to ensure poles match in appearance exactly from order to order, on a single project site. A common use case would be a multi-phase project with multiple orders. *Example:* 098-010-36784
15. Must be quoted through ROI. Finishes do not require RFA. RAL colors available are shown in "Architectural Colors brochure". Lead times may be extended up to 2 weeks due to paint procurement.

OUTDOOR: One Lithonia Way Conyers, GA 30012 Phone: 800-705-SERV (7378) TechSupport-Lighting@Acuitybrands.com www.lithonia.com
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RSS Round Straight Steel Pole

TECHNICAL INFORMATION — EPA (ft²) with 1.3 gust

Catalog number	Nominal shaft length (ft.)*	Pole shaft size (in. x ft.)	Wall thickness (in.)	80 mph	Max weight	90 mph	Max weight	100 mph	Max weight	Approximate ship weight (lbs.)
RSS 8-4-5B	8	4.5 x 8.0	0.120	24.7	630	19.7	495	16.0	410	55
RSS 10 3B	10	3.0 x 10.0	0.120	10.0	250	7.7	190	6.0	175	55
RSS 10 4B	10	4.0 x 10.0	0.120	19.1	480	15	375	12.2	305	70
RSS 10 4-5B	10	4.5 x 10.0	0.120	24.5	615	19.5	490	15.8	395	75
RSS 12 3B	12	3.0 x 12.0	0.120	7.7	195	5.8	145	4.4	130	60
RSS 12 4B	12	4.0 x 12.0	0.120	15.0	390	11.8	300	9.5	240	80
RSS 12 4-5B	12	4.5 x 12.0	0.120	19.8	495	15.7	395	12.7	330	85
RSS 14 3B	14	3.0 x 14.0	0.120	6.0	175	4.4	130	3.3	90	70
RSS 14 4B	14	4.0 x 14.0	0.120	12.2	305	9.4	250	7.6	195	90
RSS 14 4-5B	14	4.5 x 14.0	0.120	16.2	405	12.8	320	10.3	260	95
RSS 15 4-5B	15	4.5 x 15.0	0.120	12.0	300	9.5	250	7.5	200	96
RSS 16 3B	16	3.0 x 16.0	0.120	4.6	125	3.2	100	2.3	60	80
RSS 16 4B	16	4.0 x 16.0	0.120	9.6	250	7.4	185	5.9	150	100
RSS 16 4-5B	16	4.5 x 16.0	0.120	13.1	330	10.2	265	8.2	205	105
RSS 18 3B	18	3.0 x 18.0	0.120	3.4	90	2.3	60	1.4	70	90
RSS 18 4B	18	4.0 x 18.0	0.120	7.6	190	5.7	180	4.5	130	110
RSS 18 4-5B	18	4.5 x 18.0	0.120	10.5	265	8.2	210	6.5	165	115
RSS 20 3B	20	3.0 x 20.0	0.120	2.4	100	1.4	75	--	--	100
RSS 20 4B	20	4.0 x 20.0	0.120	6.0	150	4.45	150	3.45	125	120
RSS 20 4-5B	20	4.5 x 20.0	0.120	8.5	215	6.6	165	5.2	130	130
RSS 20 5B	20	5.0 x 20.0	0.120	11.75	300	9.1	230	7.25	180	145
RSS 22 4-5B	22	4.5 x 22.0	0.120	6.0	150	4.5	125	3.75	100	134
RSS 25 4B	25	4.0 x 25.0	0.120	2.85	100	1.95	75	1.35	75	145
RSS 25 4-5B	25	4.5 x 25.0	0.120	4.8	130	3.6	90	2.7	90	145
RSS 25 5B	25	5.0 x 25.0	0.120	7.25	180	5.5	150	4.25	150	180
RSS 30 4-5B	30	4.5 x 30.0	0.120	2.3	80	1.5	75	1.0	60	185
RSS 30 5B	30	5.0 x 30.0	0.120	4.2	150	3	125	2.25	100	210

NOTE: EPA values are based ASCE 7-93 wind map.
*For 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.

OUTDOOR: One Lithonia Way Conyers, GA 30012 Phone: 800-705-SERV (7378) TechSupport-Lighting@Acuitybrands.com www.lithonia.com
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RSS Round Straight Steel Pole

TECHNICAL INFORMATION — EPA (ft²) WITH 3-SECOND GUST PER AASHTO 2013

Series	Mounting Height (ft.)*	Shaft Base Size	90 MPH	Max. weight	100 MPH	Max. weight	110 MPH	Max. weight	120 MPH	Max. weight	130 MPH	Max. weight	140 MPH	Max. weight	150 MPH	Max. weight	Approximate ship weight (lbs.)
RSS	8	4-5B	18.5	463	15	375	13	325	11	275	9.5	238	8	200	7	175	55
RSS	10	3B	6	150	5	125	4	100	3.5	88	2.5	63	2	50	2	50	55
RSS	10	4B	12	300	9.5	238	8	200	6.5	163	5.5	138	5	125	4.5	113	70
RSS	10	4-5B	15.5	388	12.5	313	10.5	263	9	225	7.5	188	6.5	163	6	150	75
RSS	12	3B	5	125	4	100	3	75	2.5	63	2	50	1.5	38	1	25	60
RSS	12	4B	10	250	8	200	6.5	163	5.5	138	4.5	113	4	100	3.5	88	80
RSS	12	4-5B	13	325	10.5	263	9	225	7.5	188	6.5	163	5.5	138	4.5	113	85
RSS	14	3B	4	100	3	75	2.5	63	2	50	1.5	38	1	25	0.5	13	70
RSS	14	4B	8.5	213	6.5	163	5.5	138	4	100	3.5	88	3	75	2.5	63	90
RSS	14	4-5B	11	275	9	225	7	175	6	150	5	125	4.5	113	4	100	95
RSS	15	4-5B	10	250	8	200	6.5	163	5.5	138	4.5	113	4	100	3.5	88	96
RSS	16	3B	3	75	2.5	63	1.5	38	1	25	0.5	13	0.5	13	--	--	80
RSS	16	4B	7	175	5.5	138	4	100	3	75	2.5	63	2	50	2	50	100
RSS	16	4-5B	9	225	7	175	6	150	5	125	4	100	3.5	88	3	75	105
RSS	18	3B	2.5	63	1.5	38	1	25	0.5	13	--	--	--	--	--	--	90
RSS	18	4B	5.5	138	4	100	3	75	2.5	63	2	50	1.5	38	1	25	110
RSS	18	4-5B	7.5	188	6	150	4.5	113	4	100	3	75	2.5	63	2	50	115
RSS	20	3B	2	50	1	25	0.5	13	--	--	--	--	--	--	--	--	100
RSS	20	4B	4.5	113	3	75	2	50	1.5	38	1	25	1	25	0.5	13	120
RSS	20	4-5B	6	150	4.5	113	3.5	88	3	75	2.5	63	2	50	1.5	38	130
RSS	20	5B	8	200	6.5	163	5.5	138	4.5	113	3.5	88	3	75	2.5	63	145
RSS	22	4-5B	5	125	3.5	88	2.5	63	2	50	1.5	38	1	25	1	25	134
RSS	25	4B	2.5	63	1	25	0.5	13	--	--	--	--	--	--	--	--	145
RSS	25	4-5B	3.5	88	2	50	1.5	38	1	25	0.5	13	--	--	--	--	145
RSS	25	5B	5	125	3.5	88	3	75	2	50	1.5	38	1.5	38	1	25	180
RSS	30	4-5B	1.5	38	--	--	--	--	--	--	--	--	--	--	--	--	185
RSS	30	5B	2.5	63	1.5	38	1	25	0.5	13	--	--	--	--	--	--	210

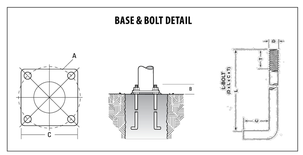
NOTE: AASHTO 2013 design criteria is the most common EPA and uses wind map ASCE7-05. Please review the project Spec document to determine the correct design criteria for the poles on your jobsite.
*For 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.

RSS Round Straight Steel Pole

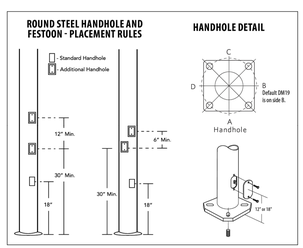
ANCHORAGE AND TEMPLATE INFORMATION

Shaft base size	Bolt circle A	Bolt projection B	Base square C	Template description	Anchor bolt description	Bolt size (in.) D x L x C
3"	7.5" - 8.5"	3.50"-3.75"	10.50"	ABTEMPLATE PJ50041	AB18-0	3/4 x 18 x 3
4"	7.5" - 8.5"	3.50"-3.75"	10.50"	ABTEMPLATE PJ50041	AB18-0	3/4 x 18 x 3
4.5"	7.5" - 8.5"	3.50"-3.75"	10.50"	ABTEMPLATE PJ50041	AB18-0	3/4 x 18 x 3
5"	7.5" - 8.5"	3.50"-3.75"	10.50"	ABTEMPLATE PJ50041	AB18-0	3/4 x 18 x 3

BASE & BOLT DETAIL



ROUND STEEL HANDHOLE AND FESTOON - PLACEMENT RULES



HANDHOLE DETAIL

IMPORTANT INSTALLATION NOTES:
- **Do not** erect poles without hauling fixtures installed.
- Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use factory template.
- If poles are stored outside, all protective wrapping must be removed immediately upon delivery to prevent finish damage.
- Lithonia Lighting is not responsible for the foundation design.

CAUTION: These specifications are intended for general purposes only. Lithonia Lighting reserves the right to change material or design, without prior notice, in a continuing effort to upgrade its products.

OUTDOOR: One Lithonia Way Conyers, GA 30012 Phone: 800-705-SERV (7378) TechSupport-Lighting@Acuitybrands.com www.lithonia.com
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TIMMONS GROUP

REVISION DESCRIPTION

DATE
03/13/2026

DRAWN BY
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DESIGNED BY
M. RACHNER

CHECKED BY
E. ESPINO

SCALE
N.A.

MILLER PARK POOL
THE CITY OF LYNCHBURG
LIGHTING CUT SHEETS

JOB NO.
57972.002

SHEET NO.
L4.11

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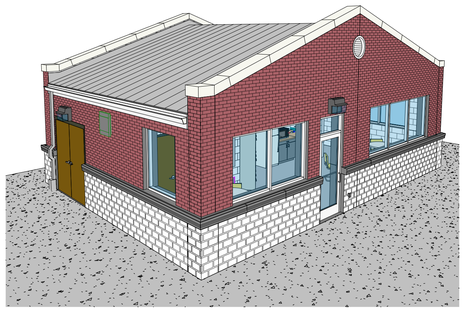
S:\L\105\57972.002-Miller Park Pool\DWG\Sheet\CD\57972.002-310-L4.10x-LGHT-CUTS.dwg | Plotted on 6/17/2026 11:43 AM | by Edwin Espino

MILLER PARK POOL RENOVATION

2100 PARK AVENUE
LYNCHBURG, VA 24501

PROJECT NO. 2025.31
2026-06-16



DOMINION SEVEN d7 architects

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APPLICABLE CODES

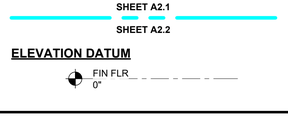
1. 2021 EDITION OF THE "VCC" THE VIRGINIA CONSTRUCTION CODE AS ADOPTED THE COMMONWEALTH OF VIRGINIA JANUARY 18, 2024. REFER TO SHEET LS1.1 FOR THE CODE REVIEW.

ARCHITECTURAL ABBREVIATION LEGEND

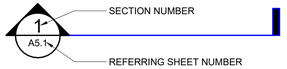
"	INCH OR INCHES	EXP	EXPOSED	OH	OVERHEAD
&	AND	EXT	EXTERIOR	OPNG	OPENING
'	FOOT OR FEET	FA	FIRE ALARM	OPP	OPPOSITE
(E)	EXISTING DIMENSION	FCU	FAN COIL UNIT	OPPH	OPPOSITE HAND
@	AT	FD	FLOOR DRAIN	PCF	POUNDS PER CUBIC FOOT
AB	ANCHOR BOLT	FEC	FIRE EXTINGUISHER CABINET	PERIM	PERIMETER
ABV	ABOVE	FF	FINISH FLOOR	PL	PLATE
ACT	ACOUSTICAL TILE	FIN	FINISH(ED)	PLAM	PLASTIC LAMINATE
AD	AREA DRAIN	FIXT	FIXTURE	PLF	POUNDS PER LINEAR FOOT
ADJ	ADJACENT	FLASH	FLASHING	PR	PAIR
AFF	ABOVE FINISH FLOOR	FLOUR	FLUORESCENT	PSF	POUNDS PER SQUARE FOOT
AHU	AIR HANDLING UNIT	FLR	FLOOR(ING)	PSI	POUNDS PER SQUARE INCH
ALUM	ALUMINUM	FOC	FACE OF CONCRETE	PT	PRESSURE TREATED
APC	ACOUSTICAL PANEL CEILING	FOM	FACE OF MASONRY	PTD	PAINTED
APPROX	APPROXIMATE	FOS	FACE OF STUD	PVC	POLYVINYL CHLORIDE
B/	BOTTOM OF	FRP	FIBERGLASS REINFORCED PANEL	QT	QUARRY TILE
B/T	BETWEEN	FT	FOOT OR FEET	R	RISER
BD	BOARD	FTG	FOOTING	RAD	RADIUS
BEL	BELOW	GA	GAUGE	RCP	REFLECTED CEILING PLAN
BLDG	BUILDING	GALV	GALVANIZED	RD	ROOF DRAIN
BLK	BLOCK	GB	GYPSUM BOARD	RECEP	RECEPTACLE
BLKG	BLOCKING	GC	GENERAL CONTRACTOR (CONTRACTOR)	REF	REFRIGERATOR
BM	BEAM	GCMU	GLAZED CONCRETE MASONRY UNIT	REINF	REINFORCED
BOTT	BOTTOM	GFCMU	GROUND-FACE CONCRETE MASONRY UNIT	REQ'D	REQUIRED
BRG	BEARING	GFRC	GLASS-FIBER-REINFORCED CONCRETE	RESIL	RESILIENT
BRK	BRICK	GL	GLASS / GLAZING	RH	RIGHT HAND
BUR	BUILT UP ROOFING	GLB	GLASS BLOCK	RL	RAIN LEADER
CB	CEMENT BOARD	HB	HOSE BIB	RM	ROOM
CF	CUBIC FEET	HGT	HEIGHT	RND	ROUND
CIR	CIRCLE	HM	HOLLOW METAL	RO	ROUGH OPENING
CJ	CONTROL JOINT	HORZ	HORIZONTAL	S	SOUTH
CLG	CEILING	HR	HOUR	SAPC	SUSPENDED ACOUSTICAL PANEL CEILING
CLO	CLOSET	HVAC	HEATING VENTILATING AIR CONDITIONING	SCHED	SCHEDULE
CLR	CLEAR(ANCE)	HWD	HARDWARE	SECT	SECTION
CMU	CONCRETE MASONRY UNIT	ID	INSIDE DIAMETER	SFCMU	SPLIT-FACE CONCRETE MASONRY UNIT
CO	CLEAN OUT	INCL	INCLUDE	SHT	SHEET
COL	COLUMN	INSUL	INSULATION	SIM	SIMILAR
COMP	COMPOSITION	INT	INTERIOR	SLNT	SEALANT
CONC	CONCRETE	J	JOIST	SPEC	SPECIFICATION
CONST	CONSTRUCTION	JAN	JANITOR CLOSET	SQ	SQUARE
CONT	CONTINUOUS OR CONTINUE	JT	JOINT	STC	SOUND TRANSMISSION CLASS
CORR	CORRIDOR	KIT	KITCHEN	STD	STANDARD
CPT	CARPET	L	LENGTH	STL	STEEL
CRS	COURSE(S)	LAM	LAMINATE	STOR	STORAGE
CT	CERAMIC TILE	LAV	LAVATORY	STRUCT	STRUCTURE(AL)
CTR	CENTER	LBL	LABEL	SUSP	SUSPENDED
CY	CUBIC YARDS	LF	LINEAR FOOT	SYM	SYMMETRY(ICAL)
DBL	DOUBLE	LH	LEFT HAND	SYS	SYSTEM
DEG OR °	DEGREES	LT	LIGHT	T	TREAD
DEPT	DEPARTMENT	M	METER	T&G	TONGUE AND GROOVE
DF	DRINKING FOUNTAIN	MACH	MACHINE	T/	TOP OF
DH	DOUBLE HUNG	MAS	MASONRY	TEL	TELEPHONE
DIA OR Ø	DIAMETER	MATL	MATERIAL	TEMP	TEMPERED
DIM	DIMENSION	MAX	MAXIMUM	TER	TERRAZZO
DISP	DISPENSER	MECH	MECHANICAL	THK	THICK
DIV	DIVISION	MFR	MANUFACTURER	TV	TELEVISION
DN	DOWN	MIN	MINIMUM	TWF	THRU-WALL FLASHING
DR	DOOR	MIR	MIRROR	TYP	TYPICAL
DS	DOWNSPOUT	MISC	MISCELLANEOUS	UC	UNDERCUT
DTL	DETAIL	MM	MILLIMETER	UNF	UNFINISHED
DW	DISHWASHER	MO	MASONRY OPENING	UNO	UNLESS NOTED OTHERWISE
DWG	DRAWING	MTD	MOUNTED	VB	VAPOR BARRIER
E	EAST	MTL	METAL	VCT	VINYL COMPOSITION TILE
EA	EACH	MW	MICROWAVE	VERT	VERTICAL
EIFS	EXTERIOR INSULATION FINISH SYSTEM	N	NORTH	VEST	VESTIBULE
EJ	EXPANSION JOINT	NIC	NOT IN CONTRACT	W	WEST
ELEC	ELECTRIC(AL)	NO	NUMBER	W/	WITH
ELEV	ELEVATION	NOM	NOMINAL	W/O	WITHOUT
EMER	EMERGENCY	NRC	NOISE REDUCTION COEFFICIENT	WD	WOOD
ENCL	ENCLOSURE	NTS	NOT TO SCALE	WDW	WINDOW
EQUIP	EQUIPMENT	OA	OVERALL	WP	WORKING POINT
EST	ESTIMATE	OC	ON CENTER	WT	WEIGHT
EWC	ELECTRIC WATER COOLER	OD	OUTSIDE DIAMETER	WWF	WELDED WIRE FABRIC
EXIST	EXISTING	OFF	OFFICE		

ARCHITECTURAL SYMBOLS LEGEND

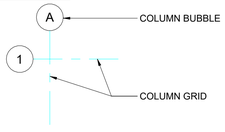
DRAWING TITLE



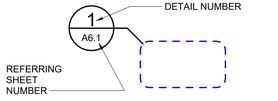
BUILDING OR WALL SECTION



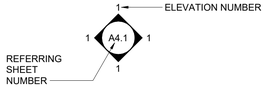
COLUMN GRID



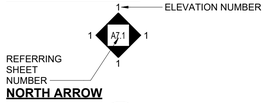
PLAN OR DETAIL CALLOUT



EXTERIOR ELEVATION



INTERIOR ELEVATION



NORTH ARROW

MATCHLINE

ELEVATION DATUM

DOOR TAG XXXXX

ROOM TAG SPACE / XXXX / XXX SF — ROOM NAME / ROOM NUMBER

PARTITION TYPE XX

AREA, IF INDICATED

WINDOW AND FRAME TYPES

- HM 12 — HOLLOW METAL
- FG 12 — FIBERGLASS
- CW 12 — CLAD WINDOW
- W 12 — WOOD WINDOW
- ASF 12 — ALUMINUM STOREFRONT
- LVR 12 — LOUVER
- ACW 12 — ALUMINUM CURTAIN WALL
- GB 12 — GLASS BLOCK

WALL ASSEMBLIES WAXX

ROOF ASSEMBLIES RAXX

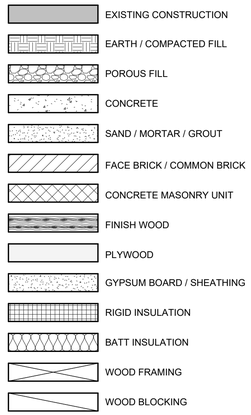
TOILET ASSEMBLIES 1

EQUIPMENT TYPE XX

CONSTRUCTION JOINTS

- CJ — CONTROL JOINT
- EJ — EXPANSION JOINT
- BEJ — BUILDING EXPANSION JOINT

MATERIAL LEGEND



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LS1.2	LIFE SAFETY PLAN
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AD1.2	PUMPHOUSE - DEMOLITION PLAN
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A2.3	PUMPHOUSE - FLOOR PLAN
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M102	NEW WORK FLOOR PLAN - MAINTENANCE BUILDING - MECHANICAL
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M502	MECHANICAL DETAILS
ELECTRICAL	
E001	ELECTRICAL GENERAL NOTES & SYMBOLS
E002	ELECTRICAL SPECIFICATIONS
ED101	ADD ALT - DEMOLITION FLOOR PLAN - POOLHOUSE - ELECTRICAL
ED102	DEMOLITION FLOOR PLAN - MAINTENANCE BUILDING - ELECTRICAL
EL101	ADD ALT - NEW WORK FLOOR PLAN - POOLHOUSE - LIGHTING
EL102	NEW WORK FLOOR PLAN - MAINTENANCE BUILDING - LIGHTING
EL103	NEW WORK FLOOR PLAN - LIFEGUARD BUILDING - LIGHTING
EP102	NEW WORK FLOOR PLAN - MAINTENANCE BUILDING - POWER
EP103	NEW WORK FLOOR PLAN - LIFEGUARD BUILDING - POWER
E401	ELECTRICAL SITE PLAN
E501	ELECTRICAL DETAILS
E601	ELECTRICAL RISER DIAGRAM
E602	ELECTRICAL PANEL SCHEDULES
E603	ELECTRICAL PANEL SCHEDULES

COMMONWEALTH OF VIRGINIA
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REVISION DESCRIPTION

DATE

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DRAWN BY
DESIGNED BY
CHECKED BY
SCALE

TIMMONS GROUP

MILLER PARK POOL
THE CITY OF LYNCHBURG

JOB NO.
57972.002

SHEET NO.
GS1.1

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Product iQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

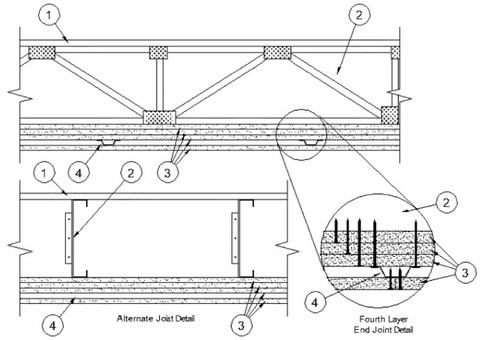
BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. **L556**

November 13, 2025

Unrestrained Assembly Rating - 2 Hr
Finish Rating - 2 Hr
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Flooring System —** The flooring system shall consist of one of the following:

System No. 1

Subflooring — Min 23/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Plywood or panels secured to wood trusses (Item 2A) with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Construction adhesive conforming to APA specification AFG-01 applied in 1/4 in. diam beads on top of trusses and to grooved edges of plywood or panel. Plywood or panels secured to steel joists (Item 2B) with 1-5/8 in. long No. 10 steel screws spaced 12 in. OC along each joist.

Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1800 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

UNITED STATES GYPSUM CO — Types LRK, HSLRK, CSD

USG MEXICO S A DE C V — Types LRK, HSLRK, CSD

Floor Mat Materials* — (Optional) - Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.

UNITED STATES GYPSUM CO — Types SAM, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment SRM-25

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/8 in. (10mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/4 in. (32mm)

HACKER INDUSTRIES INC — Types FIRM-FILL SCM 400 and FIRM-FILL SCM 400+

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/4 in. (19mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/2 in. (38mm)

HACKER INDUSTRIES INC — Types FIRM-FILL SCM 750 and FIRM-FILL SCM 750+

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 5/64 in. (2mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/4 in. of floor-topping mixture.

HACKER INDUSTRIES INC — Type Hacker Sound-Mat

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/4 in. (32mm) of floor-topping mixture.

HACKER INDUSTRIES INC — Type Hacker Sound-Mat II

Metal Lath (Optional) — For use with 3/8 in. (10 mm) floor mat materials, 3/8 in. expanded steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Hacker Floor Primer to be applied prior to the placement of the metal lath. When metal lath is used, floor topping thickness a nom 1-1/4 in. over the floor mat.

Finish Flooring - Floor Topping Mixture* — Min 1 in. thickness of floor topping mixture having a min compressive strength of 1100 psi. Mixture shall consist of 6.8 gal of water to 80 lbs of floor topping mixture to 1.9 cu ft of sand.

HACKER INDUSTRIES INC — Firm-Fill Gypsum Concrete, Firm-Fill 2010, Firm-Fill 3310, Firm-Fill 4010, Firm-Fill High Strength, Gyp-Span Radiant

System No. 4

Subflooring — Min 23/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Plywood or panels secured to wood trusses (Item 2A) with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Construction adhesive conforming to APA specification AFG-01 applied in 1/4 in. diam beads on top of trusses and to grooved edges of plywood or panel. Plywood or panels secured to steel joists (Item 2B) with 1-5/8 in. long No. 10 steel screws spaced 12 in. OC along each joist.

Finish Flooring - Floor Topping Mixture* — Min 1-1/2 in. thickness of floor topping mixture having a min compressive strength of 1000 psi and a cast density of 100 plus or minus 5 pcf. Foam concentrate mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mixture shall consist of 1.4 cu feet of preformed foam concentrate to 94 lbs Type I Portland cement, 300 lbs of sand with 5-1/2 gal of water.

ELASTIZELL CORP OF AMERICA — Type FF

System No. 5

Subflooring — Min 23/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Plywood or panels secured to wood trusses (Item 2A) with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Construction adhesive conforming to APA specification AFG-01 applied in 1/4 in. diam beads on top of trusses and to grooved edges of plywood or panel. Plywood or panels secured to steel joists (Item 2B) with 1-5/8 in. long No. 10 steel screws spaced 12 in. OC along each joist.

Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

ARCOSA SPECIALTY MATERIALS — AccuCrete® Types NexGen, Green, Prime and PrePour, AccuRadiant®, AccuLevel® Types G40, G50 and SD30

Alternate Floor Mat Material* — (Optional) — Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping shall be a min of 3/4 in.

ARCOSA SPECIALTY MATERIALS — AccuQuiet® Types D13, D-18, D25, DX38, EM.125, EM.125S, EM.250, EM.250S, EM.375, EM.375S, EM.750, and EM.750S.

System No. 6

Subflooring — Min 23/32 in. thick wood structural panels, min grade Underlayment or Single-Floor. Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Plywood or panels secured to wood trusses (Item 2A) with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Construction adhesive conforming to APA specification AFG-01 applied in 1/4 in. diam beads on top of trusses and to grooved edges of plywood or panel. Plywood or panels secured to steel joists (Item 2B) with 1-5/8 in. long No. 10 steel screws spaced 12 in. OC along each joist.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

FORMULATED MATERIALS LLC — Types FR-25, FR-30, SiteMix, and Treadstone Advantage

Alternate Floor Mat Material* — (Optional) Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping shall be a min of 3/4 in.

FORMULATED MATERIALS LLC — Types M1, M2, M3, Elite, Duo, R1, R2, and Treadstone Elite Max

System No. 7

Subflooring — Min 23/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Plywood or panels secured to wood trusses (Item 2A) with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Construction adhesive conforming to APA specification AFG-01 applied in 1/4 in. diam beads on top of trusses and to grooved edges of plywood or panel. Plywood or panels secured to steel joists (Item 2B) with 1-5/8 in. long No. 10 steel screws spaced 12 in. OC along each joist.

Finish Floor — Mineral and Fiber Board* — Min 1/2 in. thick, supplied in sizes ranging from 3 ft by 4 ft to 8 ft by 12 ft. All joints to be staggered a min of 12 in. with adjacent sub-floor joints.

Alternate Floor Mat Materials* - (Optional) — Nom 3/8 in. thick floor mat material loose laid over the subfloor. Floor topping thickness shall be as specified under Floor Topping Mixture.

GRASSWORX L L C — Type SC50

System No. 2

Subflooring — Min 23/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Plywood or panels secured to wood trusses (Item 2A) with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Construction adhesive conforming to APA specification AFG-01 applied in 1/4 in. diam beads on top of trusses and to grooved edges of plywood or panel. Plywood or panels secured to steel joists (Item 2B) with 1-5/8 in. long No. 10 steel screws spaced 12 in. OC along each joist.

Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

MAXXON CORP — Type Maxxon Standard and Maxxon High Strength

Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.

MAXXON CORP — Type Encapsulated Sound Mat.

Floor Mat Reinforcement — (Optional) Refer to manufacturer's instructions regarding minimum thickness of floor topping for use with floor mat reinforcement.

Metal Lath — (Optional) - 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd loose laid over the floor mat material.

Fiber Glass Reinforcement — (Optional) - 0.015 in. thick PVC coated non-woven fiberglass mesh, 0.368 lbs./sq. yd loose laid over the floor mat material.

System No. 3

Subflooring — Min 23/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Plywood or panels secured to wood trusses (Item 2A) with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Construction adhesive conforming to APA specification AFG-01 applied in 1/4 in. diam beads on top of trusses and to grooved edges of plywood or panel. Plywood or panels secured to steel joists (Item 2B) with 1-5/8 in. long No. 10 steel screws spaced 12 in. OC along each joist.

Floor Mat Materials* — (Optional) — Floor mat material nom 1/8 in. (3mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in. (25mm)

HACKER INDUSTRIES INC — FIRM-FILL SCM 125

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 1/4 in. (6mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 in. (25mm)

HACKER INDUSTRIES INC — Types FIRM-FILL SCM 250 and FIRM-FILL SCM 250+

HOMASOTE CO — Type 440-32 Mineral and Fiber Board

System No. 8

Subflooring — Building Units* — Nom 3/4 in. thick, tongue and grooved boards. Long dimension of boards to be perpendicular to trusses with end joints staggered a min of 4 ft. and centered over the trusses. Boards secured to trusses with 2 in. long self-drilling, self- tapping screws or 2 in. x 0.113 in. Ring Shank nails spaced a max of 12 in. OC in the field with screws/nails located 1 in. from long edge, and max 8 in. OC along the end joints with screws/nails located 1/2 in. from end joint.

ECTEK INTERNATIONAL INC — Type MegaBoard

Finish Flooring — Any finished flooring outlined in the Systems in this design.

System No. 9

Subflooring — Min 23/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Plywood or panels secured to wood trusses (Item 2A) with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Construction adhesive conforming to APA specification AFG-01 applied in 1/4 in. diam beads on top of trusses and to grooved edges of plywood or panel. Plywood or panels secured to steel joists (Item 2B) with 1-5/8 in. long No. 10 steel screws spaced 12 in. OC along each joist.

Vapor Barrier — (Optional) — Commercial asphalt saturated felt, 0.030 in. thick.

Vapor Barrier — (Optional) — Nom 0.010 in. thick commercial rosin-sized building paper.

Finish Flooring* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOX) category for names of Classified Companies. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mat(s).

Floor Mat Materials* — (Optional) — Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 55/025 and Quiet Qurl 55/025 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 60/040 and Quiet Qurl 60/040 N

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TIMMONS GROUP

MILLER PARK POOL
THE CITY OF LYNCHBURG

JOB NO.
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SHEET NO.
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Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 65/075, Quiet Qurl 65/075 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 52/013 and Quiet Qurl 52/013 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 55/025 MT and Quiet Qurl 55/025 N MT

System No. 10

Subflooring — Min 23/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Plywood or panels secured to wood trusses (Item 2A) with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Construction adhesive conforming to APA specification AFG-01 applied in 1/4 in. diam beads on top of trusses and to grooved edges of plywood or panel. Plywood or panels secured to steel joists (Item 2B) with 1-5/8 in. long No. 10 steel screws spaced 12 in. OC along each joist.

Vapor Barrier — (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture, having a min compressive strength of 1000 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
DEPENDABLE LLC — Types GSL M3.4, GSL K2.6, GSL-CSD and GSL RH

Floor Mat Materials* — (Optional) — Nom. 1/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 55/025 and Quiet Qurl 55/025 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 60/040 and Quiet Qurl 60/040 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 3/4 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 1-1/2 in.

Floor Mat Reinforcement — (Optional) - Refer to manufacturer's instructions regarding minimum thickness of floor topping for use with floor mat reinforcement.

Metal Lath — (Optional) — Expanded steel diamond mesh, 2.5 lb / sq yd loose laid over floor mat material.

Fiberglass Mesh Reinforcement — (Optional) — Coated non-woven glass fiber mesh grid loose laid over floor mat material.

2. **Structural Wood Members —** Min 9-1/4 in. deep "I" - shaped wood joists spaced a max 24 in. OC. Min joist bearing on bearing plates 2 in. Joists secured to bearing plates with two 8d steel nails at each end. Circular holes may be cut in the web of the joists in accordance with the manufacturer's published design specifications.

2A. **Wood Joists —** As an alternate to item 2, Nominal 2 by 8 or nominal 2 by 10 in. wood joists spaced 24 in. OC, fire-stopped or min. 18 in. deep parallel chord trusses spaced a max 24 in. OC fabricated from nom 2 by 4 in. lumber with lumber oriented either vertically (2A) or horizontally (2B). Truss members secured together with No. 20 MSG galv steel truss plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split-tooth-type plate. Each tooth has a chisel point on its outside edge. These points are diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The pairs are repeated on approx 7/8 in. centers with four rows of teeth per in. of plate width.

2B. **Steel Channel Joists —** As an alternate to Item 2, steel channel-shaped joists, min 8 in. deep with min 1-1/2 in. flanges and 1/4 in. stiffening flanges. The joists are fabricated from min 18 MSG galv steel. Min yield strength is 33 ksi. Joists spaced max 24 in. OC. Steel channel joists, perimeter supports, web stiffeners, bridging straps, blocking and blocking clips designed in accordance with the current edition of the Specification for the Design of Cold-Formed Steel Structural Members, published by the American Iron and Steel Institute.

3. **Gypsum Board* — Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501 or G512**. Four layers of nom 5/8 in. thick, 4 ft wide gypsum board. First three layers installed with long dimension perpendicular to bottom chord of structural members. Adjacent butt joints staggered approximately 4 ft OC. Overlapping layers installed so that edges and butt joints offset min 10 in. from previous layer. Base layer fastened to bottom chord of structural members with 1-1/4 in. long Type W or S-12 steel screws spaced 12 in. OC. Second layer secured to bottom chord of structural members with 2 in. long Type S or S-12 steel screws spaced 12 in. OC. Third layer secured to bottom chord of structural members with 2-1/2 in Type S or S-12 steel screws spaced 12 in. OC. Fourth layer secured to resilient channels with 1-1/8 in. long Type S steel screws spaced 12 in. OC. Screws to be spaced 1/2 in. from butted end joints and 1 in. from side joints.
AMERICAN GYPSUM CO (View Classification) — CKNX.R14196

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (View Classification) — CKNX.R19374

CABOT MANUFACTURING ULC (View Classification) — CKNX.R25370

KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 65/075, Quiet Qurl 65/075 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/8 in. thick loose laid over the subfloor. Floor topping thickness shall be a minimum of 3/4 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 52/013 and Quiet Qurl 52/013 N

Alternate Floor Mat Materials* — (Optional) — Floor mat material Nom. 1/4 in. entangled net core with a compressible fabric attached to the bottom loose laid over the subfloor. Floor topping thickness shall be a minimum of 1 in.
KEENE BUILDING PRODUCTS CO INC — Types Quiet Qurl 55/025 MT and Quiet Qurl 55/025 N MT

System No. 11

Subflooring — Min 23/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Plywood or panels secured to wood trusses (Item 2A) with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Construction adhesive conforming to APA specification AFG-01 applied in 1/4 in. diam beads on top of trusses and to grooved edges of plywood or panel. Plywood or panels secured to steel joists (Item 2B) with 1-5/8 in. long No. 10 steel screws spaced 12 in. OC along each joist.

Finish Flooring* — Floor Topping Materials — Min 3/4 in. to 1-1/2 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance with a minimum compressive strength of 1500 psi.

See **Floor- and Roof-Topping Mixtures** (CCOX) category for names of Classified Companies. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mat(s).

Floor Mat Materials* — (Optional) — Floor mat material nom 1/8 in. to 3/4 in. thick. Loose laid over the subfloor. When used, Acousti-flor CSM (crack suppression mat) is loose laid over the floor mat material. Floor topping material thickness is dependent on thickness of floor mat used.
WALFLOR INDUSTRIES INC — Type Acousti-flor, Acousti-flor CSM. Floor topping thickness depends on products used as follows:

Acousti-flor (1/8 in. thick) - Floor topping thickness shall be a minimum of 3/4 in.

Acousti-flor (1/4 in. thick) - Floor topping thickness shall be a minimum of 1 in.

Acousti-flor (3/8 in. thick) - Floor topping thickness shall be a minimum of 1 in.

Acousti-flor (3/4 in. thick) - Floor topping thickness shall be a minimum of 1-1/2 in.

CERTAINTEED GYPSUM INC (View Classification) — CKNX.R3660

CGC INC (View Classification) — CKNX.R19751

GEORGIA-PACIFIC GYPSUM L L C (View Classification) — CKNX.R2717

NATIONAL GYPSUM CO (View Classification) — CKNX.R3501

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM (View Classification) — CKNX.R7094

PANEL REY S A (View Classification) — CKNX.R21796

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD (View Classification) — CKNX.R19262

THAI GYPSUM PRODUCTS PCL (View Classification) — CKNX.R27517

UNITED STATES GYPSUM CO (View Classification) — CKNX.R1319

USG MEXICO S A DE C V (View Classification) — CKNX.R16089

4. **Resilient Channels —** Hat shaped channels formed from No. 25 MSG galv steel spaced 24 in. OC perpendicular to structural wood members. Channels secured to bottom chord of structural member through third layer of gypsum board with 2-1/2 in. Type S or S-12 steel screws spaced 12 in. OC.

5. **Finishing System —** (Not Shown) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads. Nom 2 in. wide paper tape embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum board.

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Metal Lath — (Optional) — Expanded steel diamond mesh, 2.5 lb / sq yd loose laid over floor mat material.

Fiberglass Mesh Reinforcement — (Optional) — Coated non-woven glass fiber mesh grid loose laid over floor mat material.

System No. 12

Subflooring — Min 23/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Plywood or panels secured to wood trusses (Item 2A) with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Construction adhesive conforming to APA specification AFG-01 applied in 1/4 in. diam beads on top of trusses and to grooved edges of plywood or panel. Plywood or panels secured to steel joists (Item 2B) with 1-5/8 in. long No. 10 steel screws spaced 12 in. OC along each joist.

Finish Flooring - Floor Topping Mixture* — Min 1 in. thickness of floor topping mixture having a min compressive strength of 4500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
SIKA DEUTSCHLAND GMBH — Type SCHONOX AP Rapid Plus

System No. 13

Subflooring — Min 23/32 in. thick wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panel to be perpendicular to trusses with joints staggered. Plywood or panels secured to wood trusses (Item 2A) with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. Construction adhesive conforming to APA specification AFG-01 applied in 1/4 in. diam beads on top of trusses and to grooved edges of plywood or panel. Plywood or panels secured to steel joists (Item 2B) with 1-5/8 in. long No. 10 steel screws spaced 12 in. OC along each joist.

Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCOX) category for names of Classified Companies. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mat(s).

Floor Mat Materials* — (Optional, Not Shown) - Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.
Freudenberg Performance Materials LP — EnkaSonic® by Colbond a member of the Low & Bonar group Types 125, 250, 250 Plus, 400, 400 Plus, 750, and 750 Plus.

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TIMMONS GROUP

MILLER PARK POOL
THE CITY OF LYNCHBURG

JOB NO.
57972.002
SHEET NO.
GS1.3

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BUILDING CODE DATA

NAME OF THE PROJECT:	MILLER PARK POOL RENOVATION
STREET ADDRESS:	2100 PARK AVE LYNCHBURG, VA 24501
PROPOSED USE IDENTIFICATION:	**MIXED USE NON-SEPARATED BUSINESS (B) & STORAGE (S-1)**
AUTHORITY HAVING JURISDICTION:	LYNCHBURG CITY 900 CHURCH STREET LYNCHBURG, VA 24504 434.856.2489

BUILDING SUMMARY

THE INTENT OF THE PROJECT IS TO CREATE A LIFE SAFETY PLAN AND PERFORM THE NECESSARY CODE ANALYSIS FOR A RENOVATION TO THE MILLER PARK POOL. THIS WILL INCLUDE A NEW POOL AND DECK LAYOUT, RENOVATED RESTROOMS, AND THE ADDITION OF A LIFEGUARD BUILDING.

OCCUPANCY:	MIXED USE NON-SEPARATED BUSINESS (B), & STORAGE (S-1)
HEIGHT:	14' - 3" & 1 STORY
TOTAL BUILDING AREA:	895 SQ FT
AUTOMATIC SPRINKLER SYSTEM:	NO
TYPE OF CONSTRUCTION:	V-B

2021 VIRGINIA CONSTRUCTION CODE (VCC)
2021 VIRGINIA EXISTING BUILDING CODE (VEBC)

ALTERATION: VEBC - CHAPTER 6

SCOPE: **SECTION 601**
EXCEPT AS MODIFIED IN CHAPTER 9 OR THIS CHAPTER, ALTERATIONS TO ANY *BUILDING* OR *STRUCTURE* SHALL COMPLY WITH THE REQUIREMENTS OF THE *VIRGINIA CONSTRUCTION CODE* (VCC) FOR NEW CONSTRUCTION. ALTERATIONS SHALL BE SUCH THAT THE *EXISTING BUILDING* OR *STRUCTURE* IS NO LESS CONFORMING TO THE PROVISIONS OF THE VCC THAN THE *EXISTING BUILDING* OR *STRUCTURE* WAS PRIOR TO THE ALTERATION. PORTIONS OF THE *BUILDING* OR *STRUCTURE* NOT BEING ALTERED SHALL NOT BE REQUIRED TO COMPLY WITH THE REQUIREMENTS OF THE VCC.

LEVEL OF ALTERATION: LEVEL 2

601.2.2 LEVEL 2
LEVEL 2 ALTERATIONS SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF SECTIONS 602 AND 603 AND SHALL INCLUDE THE FOLLOWING:

1. THE ADDITION OR ELIMINATION OF ANY DOOR OR WINDOW.
2. THE ADDITION OR ELIMINATION OF ANY WALL, FLOOR, OR CEILING ASSEMBLY.
3. THE RECONFIGURATION OR EXTENSION OF ANY SYSTEM.
4. THE INSTALLATION OF ANY ADDITIONAL EQUIPMENT, MATERIALS, ELEMENTS, OR FIXTURES.

ADDITIONS: VEBC - CHAPTER 8

SCOPE: **SECTION 801**
ADDITIONS TO ANY BUILDING OR STRUCTURE SHALL COMPLY WITH THE REQUIREMENTS OF THE VIRGINIA CONSTRUCTION CODE (VCC) FOR NEW CONSTRUCTION WITHOUT REQUIRING THE EXISTING BUILDING OR STRUCTURE TO COMPLY WITH ANY REQUIREMENTS OF THOSE CODES OR OF THESE PROVISIONS, EXCEPT AS REQUIRED BY THIS CHAPTER. WHERE AN ADDITION IMPACTS THE EXISTING BUILDING OR STRUCTURE, THAT PORTION SHALL COMPLY WITH THIS CODE. WHERE A FIRE WALL THAT COMPLIES WITH SECTION 706 OF THE VCC IS PROVIDED BETWEEN THE ADDITION AND THE EXISTING BUILDING, THE ADDITION SHALL BE CONSIDERED A SEPARATE BUILDING.

USE AND OCCUPANCY CLASSIFICATION: VCC - CHAPTER 3

BUSINESS GROUP B **SECTION 304**

304.1 BUSINESS GROUP B
BUSINESS GROUP B OCCUPANCY INCLUDES, AMONG OTHERS, THE USE OF A BUILDING OR STRUCTURE, OR A PORTION THEREOF, FOR OFFICE, PROFESSIONAL OR SERVICE-TYPE TRANSACTIONS, INCLUDING STORAGE OF RECORDS AND ACCOUNTS. BUSINESS OCCUPANCIES SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
PROFESSIONAL SERVICES, TELEPHONE EXCHANGES, TRAINING AND SKILL DEVELOPMENT

STORAGE GROUP S **SECTION 311**

311.2 MODERATE-HAZARD STORAGE, GROUP (S-1)
STORAGE GROUP S-1 OCCUPANCIES ARE BUILDINGS OCCUPIED FOR STORAGE USES THAT ARE NOT CLASSIFIED AS GROUP S-2, INCLUDING, BUT NOT LIMITED TO, STORAGE OF THE FOLLOWING:
BAGS, BOOKS AND PAPER, CLOTHING, FURNITURE, LUMBER, RESILIENT FLOORING, SOAPS

SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY VCC - CHAPTER 4

HAZARDOUS MATERIALS **SECTION 414**

INFORMATION REQUIRED SECTION 414.1.3

A REPORT SHALL BE SUBMITTED TO THE BUILDING OFFICIAL IDENTIFYING THE MAXIMUM EXPECTED QUANTITIES OF HAZARDOUS MATERIALS TO BE STORED, USED IN A CLOSED SYSTEM AND USED IN AN OPEN SYSTEM, AND SUBDIVIDED TO SEPARATELY ADDRESS HAZARDOUS MATERIAL CLASSIFICATION CATEGORIES BASED ON TABLES 307.1(1) AND 307.1(2). THE METHODS OF PROTECTION FROM SUCH HAZARDS, INCLUDING BUT NOT LIMITED TO CONTROL AREAS, FIRE PROTECTION SYSTEMS AND GROUP H OCCUPANCIES SHALL BE INDICATED IN THE REPORT AND ON THE CONSTRUCTION DOCUMENTS. THE OPINION AND REPORT SHALL BE PREPARED BY A QUALIFIED PERSON, FIRM OR CORPORATION APPROVED BY THE BUILDING OFFICIAL AND PROVIDED WITHOUT CHARGE TO THE ENFORCING AGENCY.

CONTROL AREAS SECTION 414.2

CONTROL AREAS SHALL COMPLY WITH SECTIONS 414.2.1 THROUGH 414.2.5 AND THE INTERNATIONAL FIRE CODE.

CONSTRUCTION REQUIREMENTS SECTION 414.2.1

CONTROL AREAS SHALL BE SEPARATED FROM EACH OTHER BY FIRE BARRIERS CONSTRUCTED IN ACCORDANCE WITH SECTION 707 OR HORIZONTAL ASSEMBLIES CONSTRUCTED IN ACCORDANCE WITH SECTION 711, OR BOTH .

HAZARDOUS MATERIALS: THE PROPOSED POOL EQUIPMENT/ STORAGE ROOM IS ASSUMED TO CONTAIN TYPICAL POOL MAINTENANCE CHEMICALS SUCH AS CHLORINE, HYDROCHLORIC ACID, MURIATIC ACID AND CO2 CARBON DIOXIDE, IN LIMITED QUANTITIES. A GROUP H OCCUPANCY IS NOT ANTICIPATED, PROVIDED STORED MATERIALS REMAIN BELOW THE APPLICABLE MAXIMUM ALLOWABLE QUANTITIES (MAQS) PER CONTROL AREA. FINAL COMPLIANCE SHALL BE BASED ON THE OWNER'S HAZARDOUS MATERIALS INVENTORY, SAFETY DATA SHEETS, CONTAINER SIZES, AND STORAGE METHODS. ANY INCREASE IN CHEMICAL QUANTITIES OR CHANGE IN CHEMICAL TYPE SHALL BE REVIEWED FOR COMPLIANCE WITH HAZARDOUS MATERIALS PROVISIONS PRIOR TO STORAGE. SECTION 414.1.2

GENERAL BUILDING HEIGHTS AND AREAS: VCC - CHAPTER 5

ALLOWABLE BUILDING HEIGHT: 40 FEET & 1 STORY ACTUAL BUILDING HEIGHT: 14.25 FEET & 1 STORY	**14.25 FEET & 1 STORY < 40 FEET & 1 STORY; THEREFORE OK**	TABLE 504.3 & 504.4
ALLOWABLE BUILDING AREA: 9,000 SF ACTUAL BUILDING AREA: 895 SF	**895 SF < 9,000 SF; THEREFORE OK** **NO FRONTAGE TAKEN**	TABLE 506.2 SECTION 508.4.2

TYPES OF CONSTRUCTION: VCC - CHAPTER 6

CONSTRUCTION CLASSIFICATION: V-B — SECTION 602, TABLE 601

FIRE RESISTANCE RATING OF BUILDING ELEMENTS

PRIMARY STRUCTURAL FRAME:	0 HOURS
BEARING WALLS (EXTERIOR):	0 HOURS
BEARING WALLS (INTERIOR):	0 HOURS
NON-BEARING WALLS AND PARTITIONS (EXTERIOR):	0 HOURS
NON-BEARING WALLS AND PARTITIONS (INTERIOR):	0 HOURS
FLOOR CONSTRUCTION AND SECONDARY MEMBERS:	0 HOURS
ROOF CONSTRUCTION AND SECONDARY MEMBERS:	0 HOURS

FIRE AND SMOKE PROTECTION FEATURES: VCC - CHAPTER 7

SEPARATION OF CHEMICAL STORAGE — 2 HOURS — SECTION 415.11.6.2

⚠1

FIRE PROTECTION AND LIFE SAFETY SYSTEMS: VCC - CHAPTER 9

AUTOMATIC SPRINKLER SYSTEM: **NO** **SECTION 903**

MIXED USE GROUPS B & S-1 SECTION 903.2.9
AN AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED THROUGHOUT ALL BUILDINGS CONTAINING A GROUP S-1 OCCUPANCY WHERE ONE OF THE FOLLOWING CONDITIONS EXISTS:

1. A GROUP S-1 FIRE AREA EXCEEDS 12,000 SQUARE FEET.
2. A GROUP S-1 FIRE AREA IS LOCATED MORE THAN THREE STORIES ABOVE GRADE PLANE.
3. THE COMBINED AREA OF ALL GROUP S-1 FIRE AREAS ON ALL FLOORS, INCLUDING ANY MEZZANINES, EXCEEDS 24,000 SQUARE FEET.
4. A GROUP S-1 FIRE AREA USED FOR STORAGE OF COMMERCIAL MOTOR VEHICLES WHERE THE FIRE AREA EXCEEDS 5,000 SQUARE FEET.

PORTABLE FIRE EXTINGUISHERS:	PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED IN ALL USE GROUP A, B, E, F, H, I, M, R-1, R-4, AND S OCCUPANCIES	SECTION 906.1
GENERAL REQUIREMENTS:	PORTABLE FIRE EXTINGUISHERS SHALL BE SELECTED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH THIS SECTION AND NFPA 10, MAXIMUM TRAVEL DISTANCE FOR CLASS 'A' FIRE HAZARD SHALL NOT EXCEED 75 FEET, FOR CLASS 'B' FIRE HAZARD A MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 30 FEET, FOR CLASS 'C' FIRE HAZARD MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 30 FEET, FOR CLASS 'D' FIRE HAZARD TRAVEL DISTANCE SHALL NOT EXCEED 75 FEET. CALCULATED WITH 2-A ABC DRY CHEMICAL FIRE EXTINGUISHER ALL FIRE EXTINGUISHERS TO BE PROVIDED BY OWNER	SECTION 906.3

MEANS OF EGRESS: VCC - CHAPTER 10

OCCUPANT LOAD:	MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT	TABLE 1004.5
OCCUPANT LOAD CALCULATION:	SEE OCCUPANY LOAD SCHEDULE	6 OCCUPANTS
EGRESS WIDTH CALCULATION:	TOTAL OCCUPANT LOAD MULTIPLIED BY 0.3 INCHES PER OCCUPANT FOR STAIRWAYS AND 0.2 INCHES PER OCCUPANT FOR EGRESS COMPONENTS OTHER THAN STAIRS. EGRESS WIDTH NEEDED BASED ON 6 OCCUPANTS 6 X 0.2 INCHES = 1.2 INCHES 1 DOORS @ 32 INCHES + 1 DOOR @ 64 INCHES = 98 INCHES 98 INCHES > 1.2 INCHES: THEREFORE OK	SECTION 1005.3.1 SECTION 1005.3.2
COMMON PATH OF EGRESS TRAVEL: ACTUAL COMMON PATH OF EGRESS TRAVEL:	100'- 0" THE TOTAL EGRESS TRAVEL IS LESS THAN 100'-0"	TABLE 1006.2.1
EXIT AND EXIT ACCESS DOORWAY CONFIGURATION:	WHERE TWO EXITS ARE REQUIRED THEY SHALL BE PLACED A DISTANCE APART EQUAL TO NOT LESS THAN ONE-HALF OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED MEASURED IN A STRAIGHT LINE BETWEEN THEM.	SECTION 1007.1.1.2
EXIT ACCESS TRAVEL DISTANCE: ACTUAL EXIT ACCESS TRAVEL DISTANCE:	200' - 0" SEE PLAN	SECTION 1017.2
ACTUAL NUMBER OF EXITS:	2 EXITS PROVIDED	

PLUMBING FIXTURES: VCC - CHAPTER 29

SEE PLUMBING FIXTURES SCHEDULE

OCCUPANT LOAD SCHEDULE

NAME	OCCUPANT LOAD TABULAR	OCCUPANT LOAD DESIGN	AREA	MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT (TABLE 1004.5) OCC LOAD FACTOR		FUNCTION OF SPACE	GROUP
POOL DECK	851	263	42,524 SF	50 SF	GROSS	Skating rinks, swimming pools - Decks	ASSEMBLY (A-5)
POOL	682	200	10,222 SF	15 SF	GROSS	Skating rinks, swimming pools - Rink and pool	ASSEMBLY (A-5)
POOLHOUSE	19	6	2,803 SF	150 SF	GROSS	Business areas	BUSINESS (B)
LIFEGUARDS	4	4	507 SF	150 SF	GROSS	Business areas	BUSINESS (B)
STORAGE	2	2	304 SF	300 SF	GROSS	Accessory storage areas, mechanical equipment room	STORAGE (S-1)
PUMPHOUSE	5	0	1,221 SF	300 SF	GROSS	Accessory storage areas, mechanical equipment room	STORAGE (S-1)
	1563	475	57,581 SF				

MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES

OCCUPANCY				WATER CLOSETS (URINALS: SEE SECTION 424.2)				LAVATORIES				BATHTUBS/ SHOWERS		DRINKING FOUNTAIN (SEE SECTION 410)		OTHER	
CLASSIFICATION	USE	DESCRIPTION	LOAD	RATIO	MALE	RATIO	FEMALE	RATIO	MALE	RATIO	FEMALE	RATIO		RATIO		RATIO	
ASSEMBLY	A-5	STADIUMS, AMUSEMENT PARKS, POOLS, BLEACHERS AND GRANDSTANDS FOR OUTDOOR SPORTING EVENTS AND ACTIVITIES	463	1 PER 75 FOR THE FIRST 1,500 AND 1 PER 120 FOR THE REMAINDER EXCEEDING 1,500	3.09	1 PER 40 FOR THE FIRST 1,520 AND 1 PER 60 FOR THE REMAINDER EXCEEDING 1,520	5.79	1 PER 200	1.16	1 PER 150	1.54	---	---	1 PER 1000	0.46	1 SERVICE SINK	1
BUSINESS	B	BUILDINGS FOR THE TRANSACTION OF BUSINESS, PROFESSIONAL SERVICES, OTHER SERVICES INVOLVING MERCHANDISE, OFFICE BUILDINGS, BANKS, AMBULATORY CARE, LIGHT INDUSTRIAL, AND SIMILAR USES	10	1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50	0.20	1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50	0.20	1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80	0.13	1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80	0.13	---	---	1 PER 100	0.10	1 SERVICE SINK	---
STORAGE	S	STRUCTURES FOR THE STORAGE OF GOODS, WAREHOUSES, STOREHOUSE AND FREIGHT DEPOTS. LOW AND MODERATE HAZARD.	2	1 PER 100	0.01	1 PER 100	0.01	1 PER 100	0.01	1 PER 100	0.01	---	---	1 PER 1000	0.002	1 SERVICE SINK	---

REQUIRED PLUMBING FIXTURES

SUBTOTALS	3.30		6.00		1.29		1.68		---		0.57		1
REQUIRED TOTAL	4		6		2		2		---		1		1

PROVIDED PLUMBING FIXTURES

PROVIDED TOTAL	9		6		4		4		15		1		1
URINAL SUBSTITUTION	5												

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THE CITY OF LYNCHBURG

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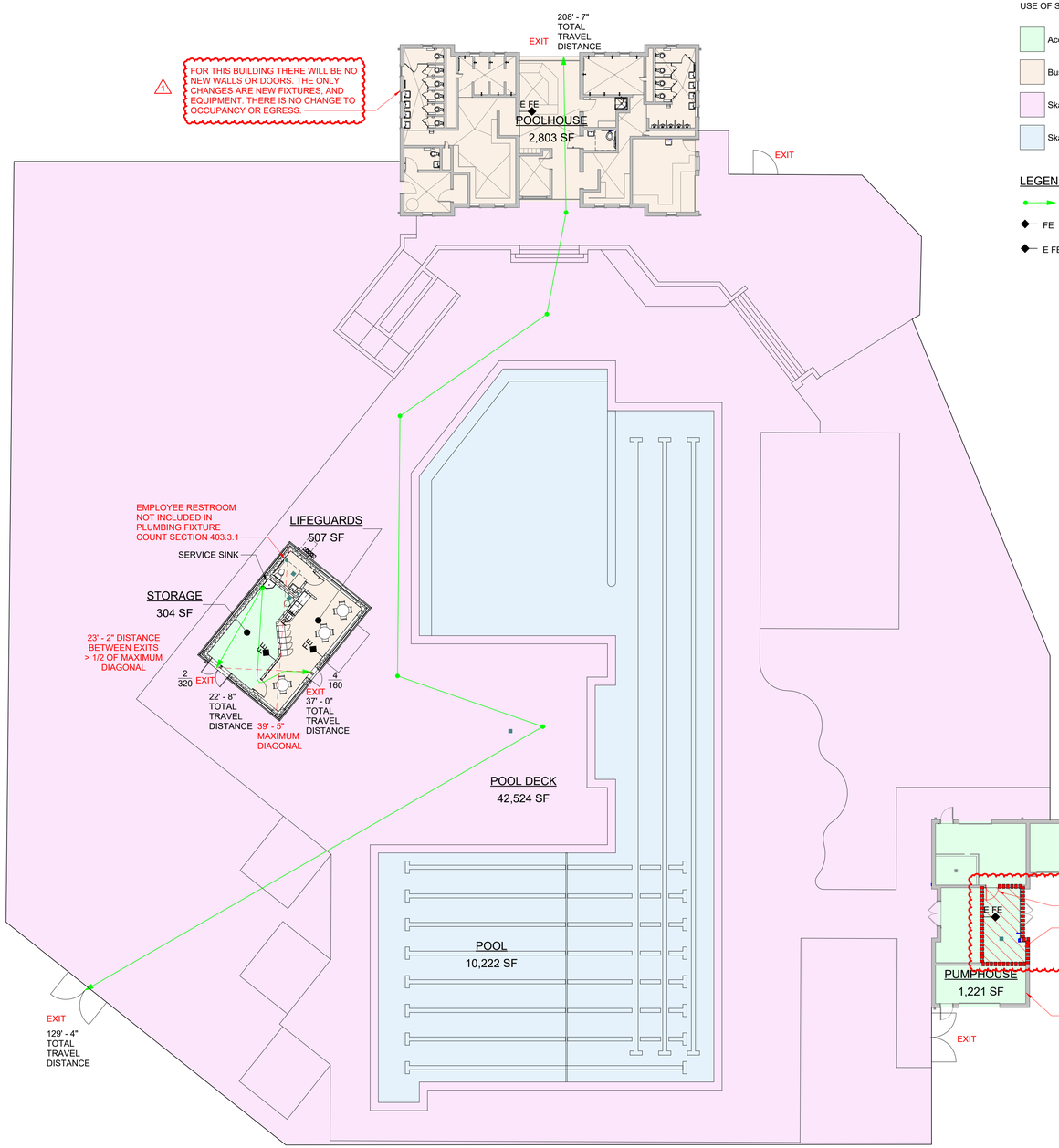

USE OF SPACE

- Accessory storage areas, mechanical equipment room
- Business areas
- Skating rinks, swimming pools - Decks
- Skating rinks, swimming pools - Rink and pool

LEGEND

- TRAVEL PATH
- FE — NEW FIRE EXTINGUISHER
- E FE — EXISTING FIRE EXTINGUISHER

2 LIFE SAFETY PLAN - LIFEGUARD BUILDING

LS1.2 SCALE: 1/16" = 1'-0"

PLAN NORTH / TRUE NORTH

0 8' 16' 32'

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

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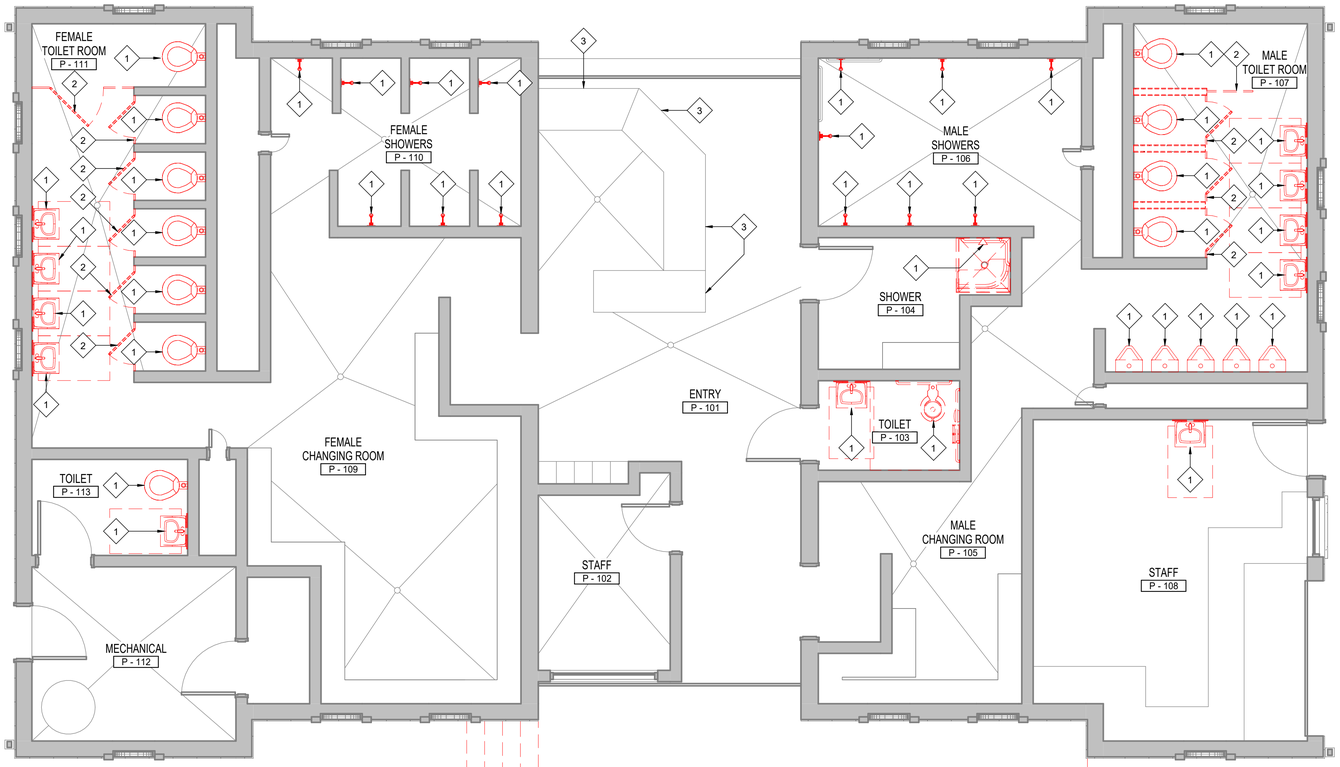

1 AD1.1 DEMOLITION PLAN - POOL HOUSE
SCALE: 1/4" = 1'-0"

PLAN NORTH / TRUE NORTH

DEMOLITION KEYNOTES

1	DEMOLISH - PLUMBING FIXTURE - ALTERNATE #4
2	DEMOLISH - TOILET PARTITIONS - ALTERNATE #5
3	REPLACE PLASTIC LAMINATE COUNTERTOPS - ALTERNATE #7
4	DEMOLISH - DOOR AND FRAME

0 2' 4' 8'
SCALE: 1/4" = 1'-0"

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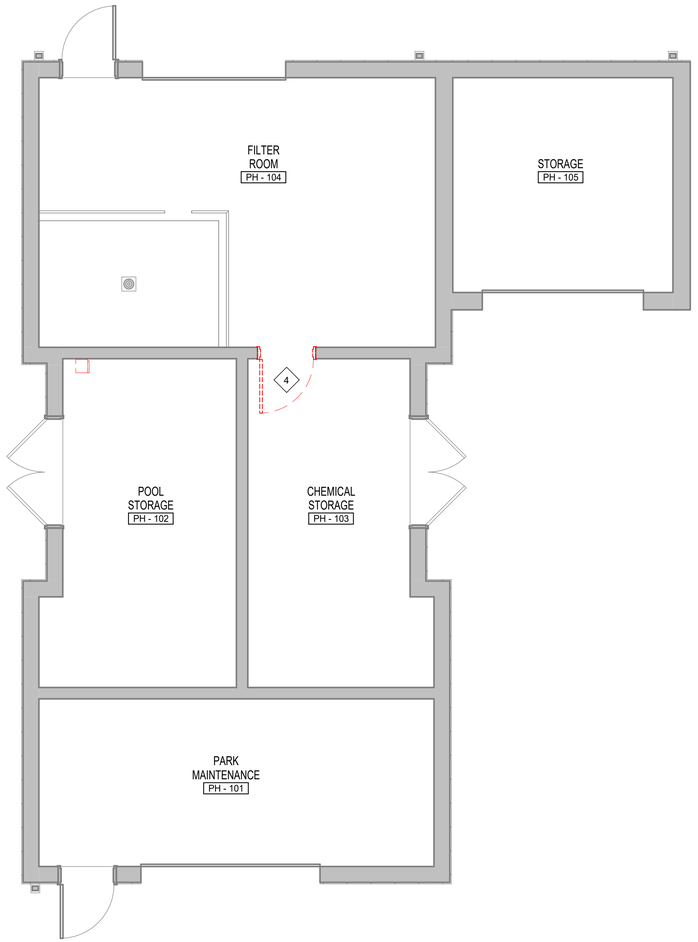

1 AD1.2 DEMOLITION - PUMPHOUSE/MAINTENANCE

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

PLAN NORTH / TRUE NORTH

DEMOLITION KEYNOTES

1	DEMOLISH - PLUMBING FIXTURE - ALTERNATE #4
2	DEMOLISH - TOILET PARTITIONS - ALTERNATE #5
3	REPLACE PLASTIC LAMINATE COUNTERTOPS - ALTERNATE #7
4	DEMOLISH - DOOR AND FRAME

0 2' 4' 8'

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

#

#

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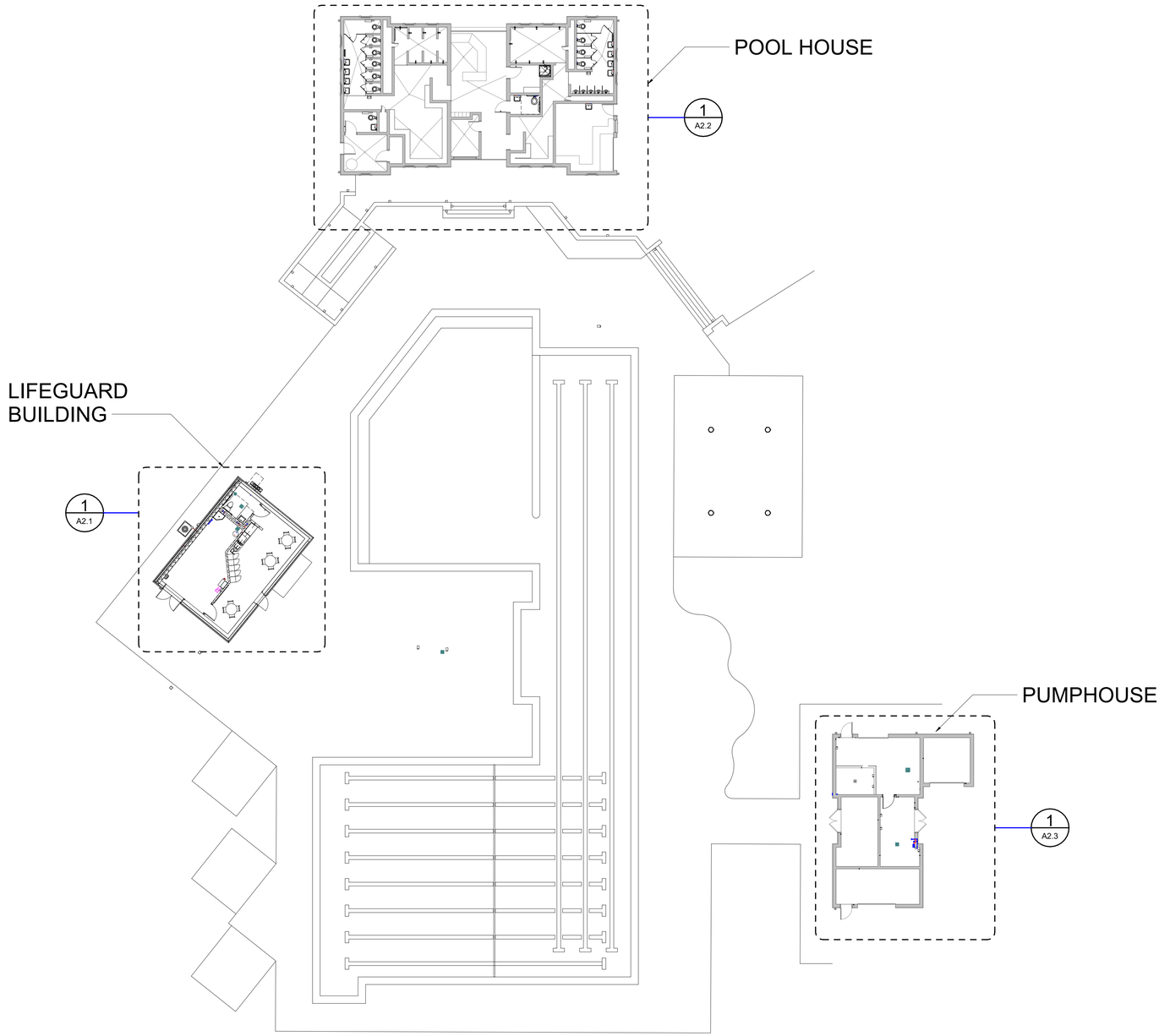

1 A1.1 OVERALL PLAN
SCALE: 1/16" = 1'-0"

PLAN NORTH
TRUE NORTH

0 8' 16' 32'
SCALE: 1/16" = 1'-0"

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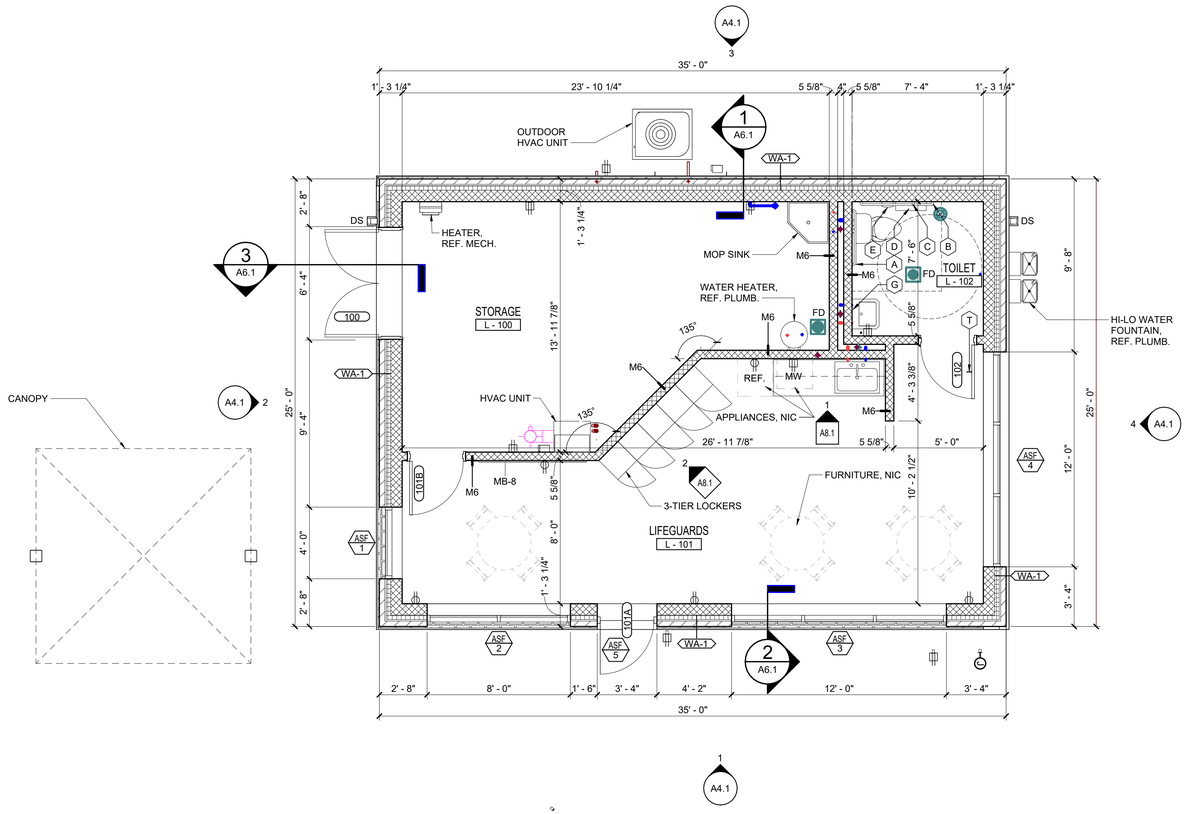
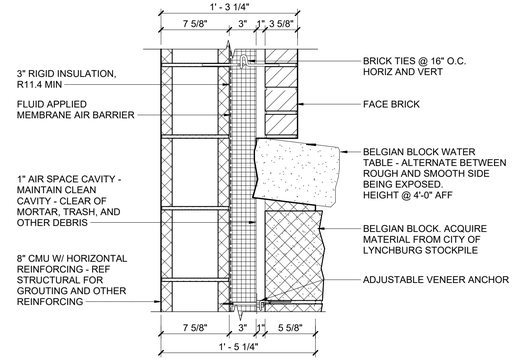


1 A2.1 NEW WORK FLOOR PLAN - LIFEGUARD BUILDING
SCALE: 1/4" = 1'-0"

3 A2.1 SIGN TYPE 1
SCALE: 6" = 1'-0"



2 A2.1 WALL ASSEMBLY WA-1
SCALE: 1 1/2" = 1'-0"

PLAN NORTH / TRUE NORTH

FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR FINISH	BASE	WALLS	CEILING	REMARKS
L - 100	STORAGE	SEALED CONCRETE	---	PAINTED CMU	PAINTED GYPSUM BOARD	
L - 101	LIFEGUARDS	SHEET VINYL	VINYL BASE	PAINTED CMU	PAINTED GYPSUM BOARD	
L - 102	TOILET	PORCELAIN TILE	PORCELAIN TILE	PAINTED CMU	PAINTED GYPSUM BOARD	

1

PARTITION TYPE SCHEDULE

MARK	DESCRIPTION
M6	5 5/8" CMU WITH REINFORCEMENT.

VISUAL DISPLAY SCHEDULE

MARK	DESCRIPTION	DIMENSIONS
MB-8	MARKERBOARD	4'-0" H X 6'-0" W

TOILET ASSEMBLIES, SCHEDULE & ENLARGED PLAN GENERAL NOTES

A. PLAN DIMENSIONS ARE TO FACE OF WALL OR PARTITION. WHERE APPLIED FINISHES OCCUR-SUCH AS CERAMIC TILE-DIMENSIONS ARE TO FACE OF APPLIED FINISH. APPLIED FINISHES ARE NOT ALLOWED TO REDUCE CLEAR DIMENSIONS. "APPLIED FINISHES" IN THIS CASE DO NOT INCLUDE TRIM, BASE, AND ACOUSTIC WALL PANELS.

B. CLEAR DIMENSIONS ARE TO FACE OF APPLIED WALL AND PARTITION FINISHES.

1. ACTUAL DIMENSIONS OF ACCESSORIES MAY VARY. COORDINATE DIFFERENCES, IF ANY.

2. PROVIDE ROBE HOOK ON INTERIOR FACE OF ALL TOILET PARTITION DOORS. MOUNT AT 3'-11" AFF. IN ADA STALLS, MOUNT AT 3' - 4" AFF. BOD BOBRICK B-233 CLOTHES HOOK. CONTRACTOR FURNISHED, CONTRACTOR INSTALLED.

TOILET ACCESSORIES SCHEDULE

TYPE	DESCRIPTION	MOUNTING HEIGHT	REMARKS	FURNISHED BY	INSTALLED BY
A	36" GRAB BAR.	REFER TO WATER CLOSET ACCESSORY ELEVATIONS		CONTRACTOR	CONTRACTOR
B	48" GRAB BAR.	REFER TO WATER CLOSET ACCESSORY ELEVATIONS		CONTRACTOR	CONTRACTOR
C	18" GRAB BAR.	REFER TO WATER CLOSET ACCESSORY ELEVATIONS		CONTRACTOR	CONTRACTOR
D	TOILET PAPER DISPENSER - TWIN 9 JRT JUMBO DOUBLE ROLL DISPENSER.	REFER TO WATER CLOSET ACCESSORY ELEVATIONS		OWNER	CONTRACTOR
E	SURFACE MOUNTED SANITARY-NAPKIN DISPOSAL UNIT.	REFER TO WATER CLOSET ACCESSORY ELEVATIONS		CONTRACTOR	CONTRACTOR
F	SOAP DISPENSER - 800/1100 ML BLACK MOUNTING SOAP DISPENSER FOR BOX SOAP.	40" AFF TO DISPENSING OUTLET		OWNER	CONTRACTOR
G	MIRROR UNIT.	40" AFF TO BOTTOM OF REFLECTIVE SURFACE		CONTRACTOR	CONTRACTOR
H	BABY CHANGING STATION.	34" MAX AFF TO OPERABLE TABLE		CONTRACTOR	CONTRACTOR
J	PAPER TOWEL DISPENSER ELECTRA BATTERY OPERATED.	40" AFF TO DISPENSING OUTLET		OWNER	CONTRACTOR
T	ROBE HOOK.	40" AFF TO CENTERLINE OF HOOK SHAFT		CONTRACTOR	CONTRACTOR

0 2' 4' 8'
SCALE: 1/4" = 1'-0"

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THE CITY OF LYNCHBURG

JOB NO.
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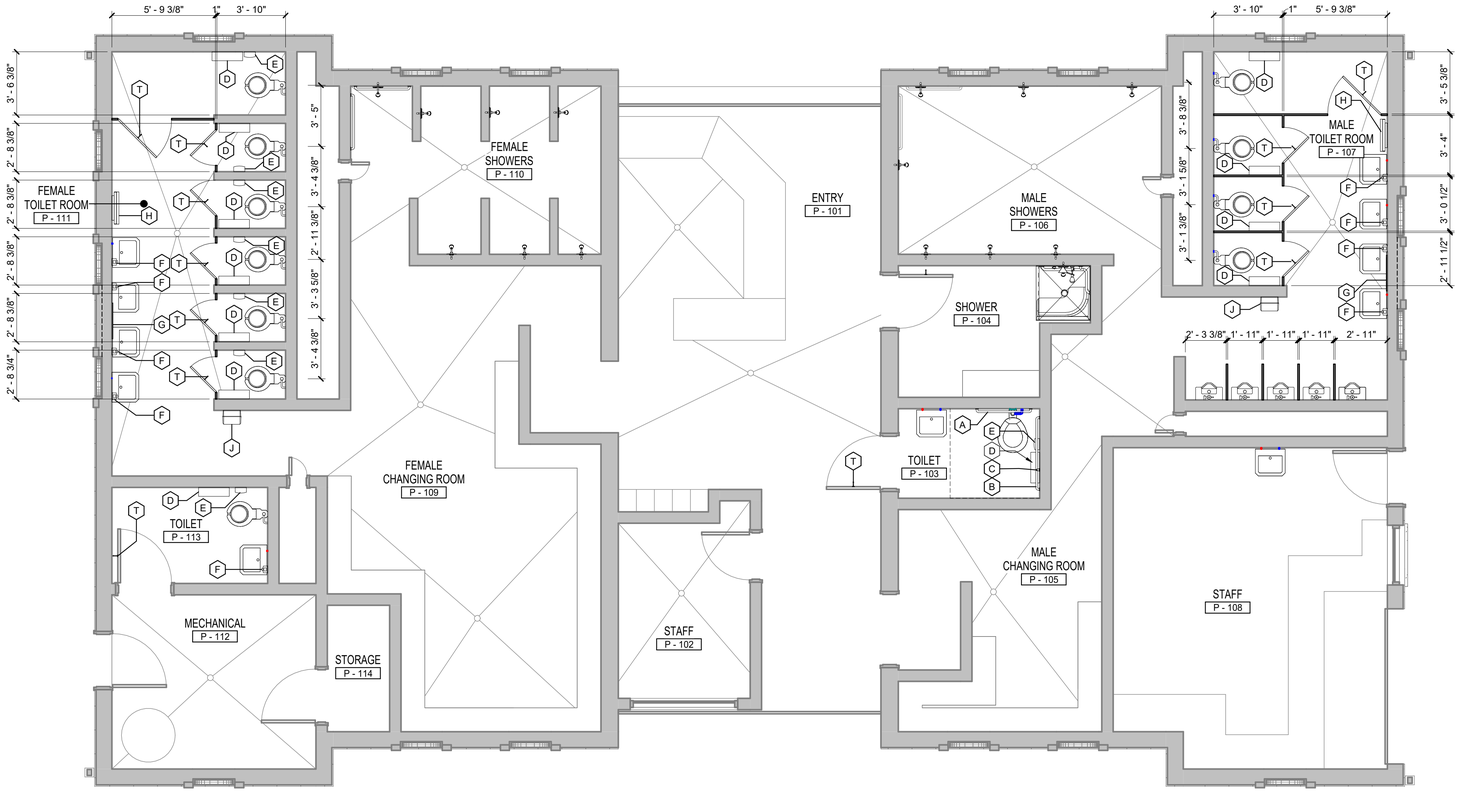
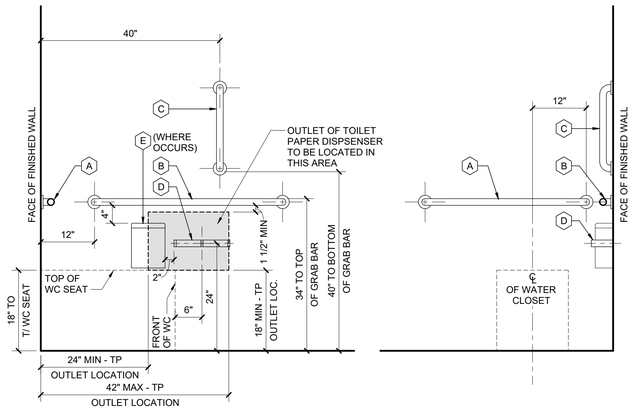


1 NEW WORK FLOOR PLAN - RESTROOMS
A2.2 SCALE: 1/4" = 1'-0"



PLAN NORTH / TRUE NORTH

TOILET ASSEMBLIES, SCHEDULE & ENLARGED PLAN GENERAL NOTES

A. PLAN DIMENSIONS ARE TO FACE OF WALL OR PARTITION. WHERE APPLIED FINISHES OCCUR-SUCH AS CERAMIC TILE-DIMENSIONS ARE TO FACE OF APPLIED FINISH. APPLIED FINISHES ARE NOT ALLOWED TO REDUCE CLEAR DIMENSIONS. "APPLIED FINISHES" IN THIS CASE DO NOT INCLUDE TRIM, BASE, AND ACOUSTIC WALL PANELS.

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TOILET ACCESSORIES SCHEDULE

TYPE	DESCRIPTION	MOUNTING HEIGHT	REMARKS	FURNISHED BY	INSTALLED BY
A	36" GRAB BAR.	REFER TO WATER CLOSET ACCESSORY ELEVATIONS		CONTRACTOR	CONTRACTOR
B	48" GRAB BAR.	REFER TO WATER CLOSET ACCESSORY ELEVATIONS		CONTRACTOR	CONTRACTOR
C	18" GRAB BAR.	REFER TO WATER CLOSET ACCESSORY ELEVATIONS		CONTRACTOR	CONTRACTOR
D	TOILET PAPER DISPENSER - TWIN 9 JRT JUMBO DOUBLE ROLL DISPENSER.	REFER TO WATER CLOSET ACCESSORY ELEVATIONS		OWNER	CONTRACTOR
E	SURFACE MOUNTED SANITARY-NAPKIN DISPOSAL UNIT.	REFER TO WATER CLOSET ACCESSORY ELEVATIONS		CONTRACTOR	CONTRACTOR
F	SOAP DISPENSER - 800/1100 ML BLACK MOUNTING SOAP DISPENSER FOR BOX SOAP.	40" AFF TO DISPENSING OUTLET		OWNER	CONTRACTOR
G	MIRROR UNIT.	40" AFF TO BOTTOM OF REFLECTIVE SURFACE		CONTRACTOR	CONTRACTOR
H	BABY CHANGING STATION.	34" MAX AFF TO OPERABLE TABLE		CONTRACTOR	CONTRACTOR
J	PAPER TOWEL DISPENSER ELECTRA BATTERY OPERATED.	40" AFF TO DISPENSING OUTLET		OWNER	CONTRACTOR
T	ROBE HOOK.	40" AFF TO CENTERLINE OF HOOK SHAFT		CONTRACTOR	CONTRACTOR

0 2' 4' 8'
SCALE: 1/4" = 1'-0"

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1 A2.3 NEW WORK FLOOR PLAN - PUMPHOUSE/MAINTENANCE

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

PLAN NORTH

TRUE NORTH

0 2' 4' 8'

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

#

#

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57972.002

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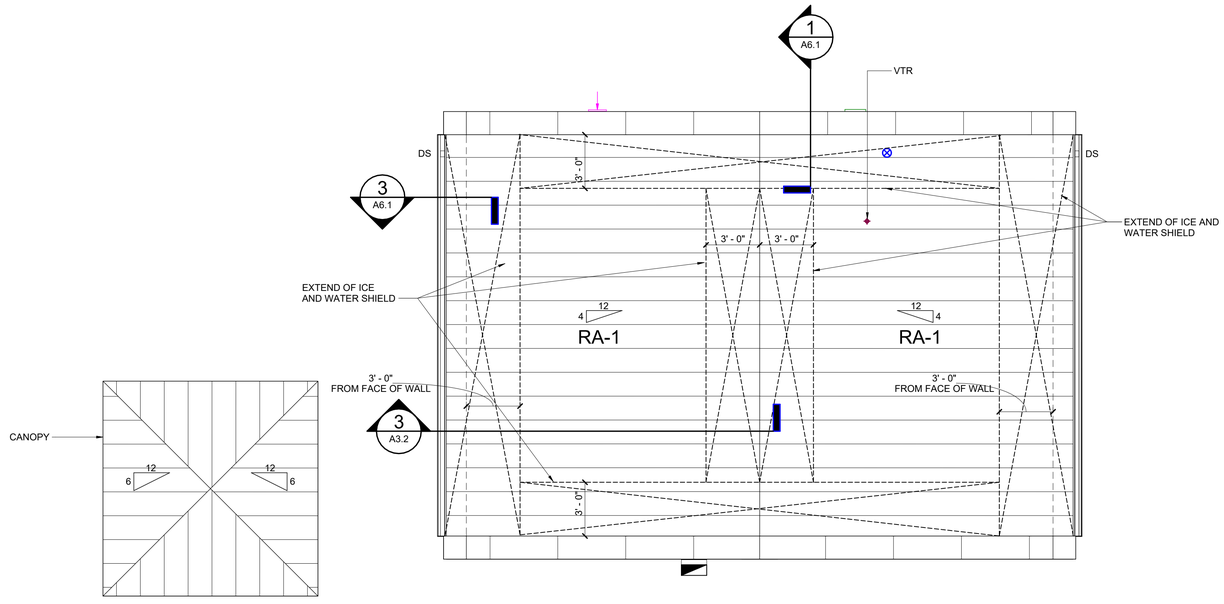
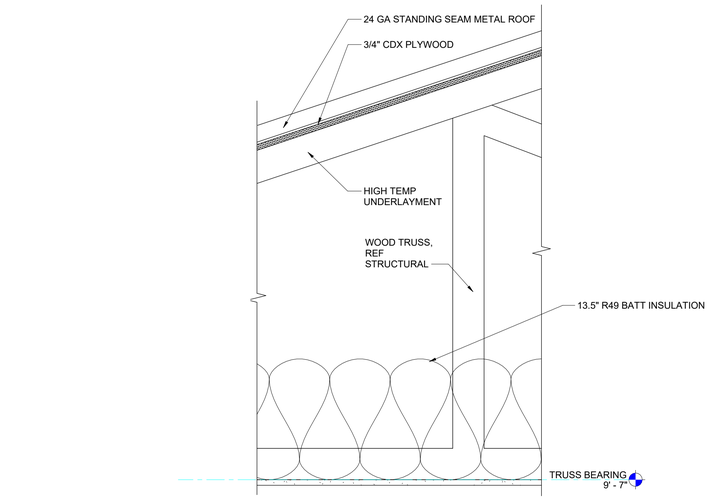


1 A3.1 NEW WORK ROOF PLAN - LIFEGUARD BUILDING

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



2 A3.1 ROOF ASSEMBLY RA-1

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

PLAN NORTH

TRUE NORTH

0 1/2' 1' 1 1/2'

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

0 2' 4' 8'

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

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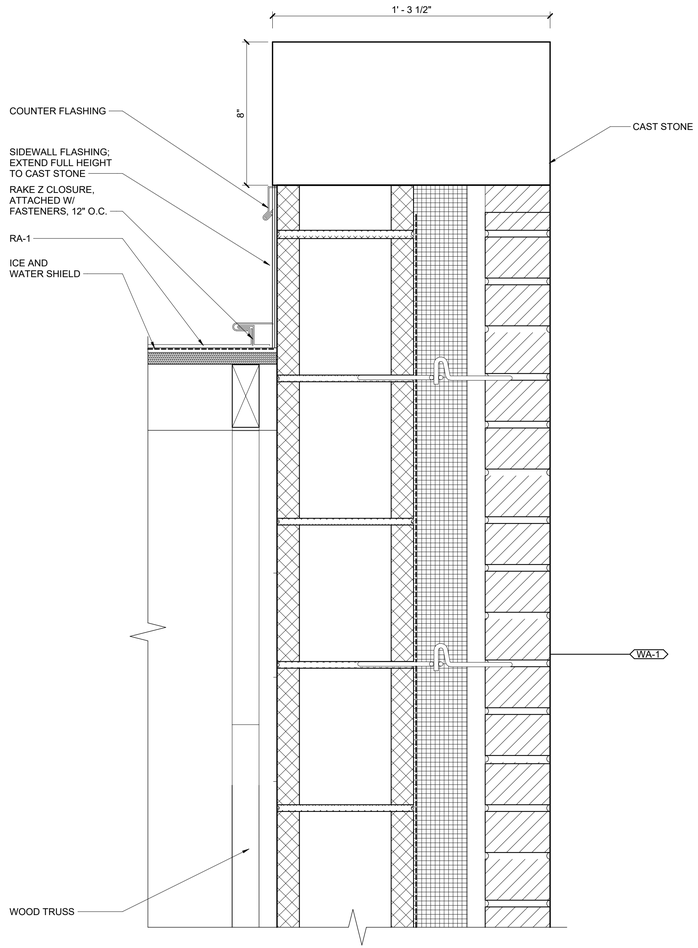
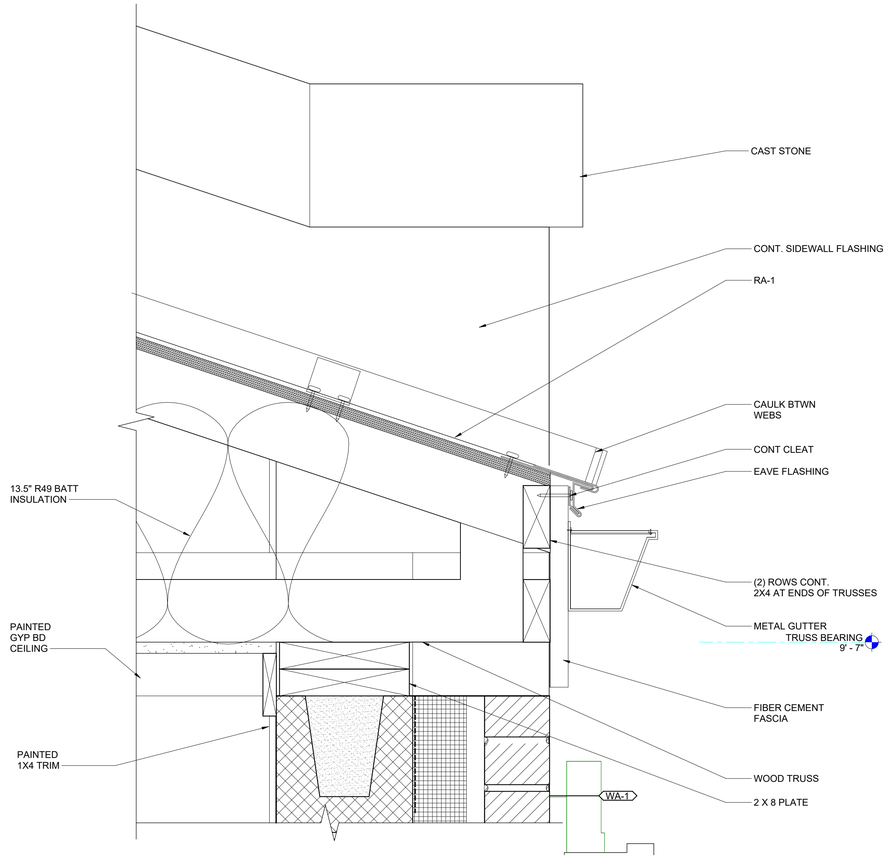
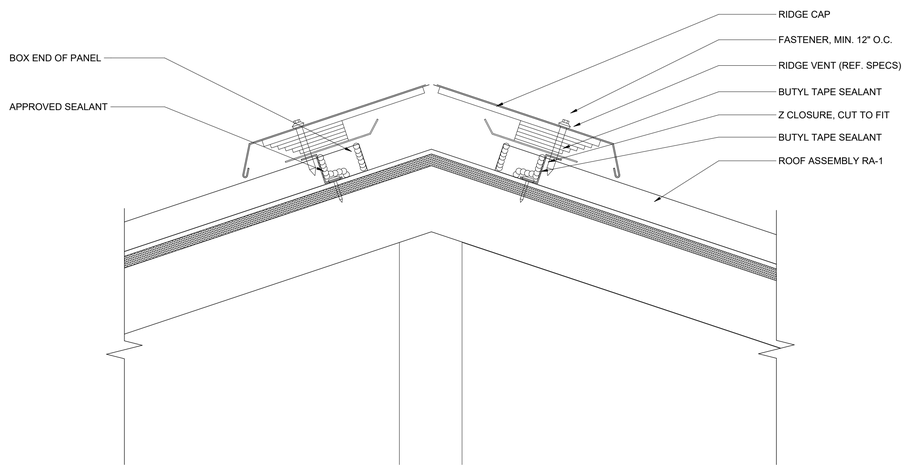


1 A3.2 ROOF DETAIL - ROOF TO WALL
SCALE: 3" = 1'-0"



2 A3.2 ROOF DETAIL - GUTTER
SCALE: 3" = 1'-0"



3 A3.2 ROOF DETAIL - RIDGE
SCALE: 3" = 1'-0"

0 3" 6" 9"
SCALE: 3" = 1'-0"

#
#

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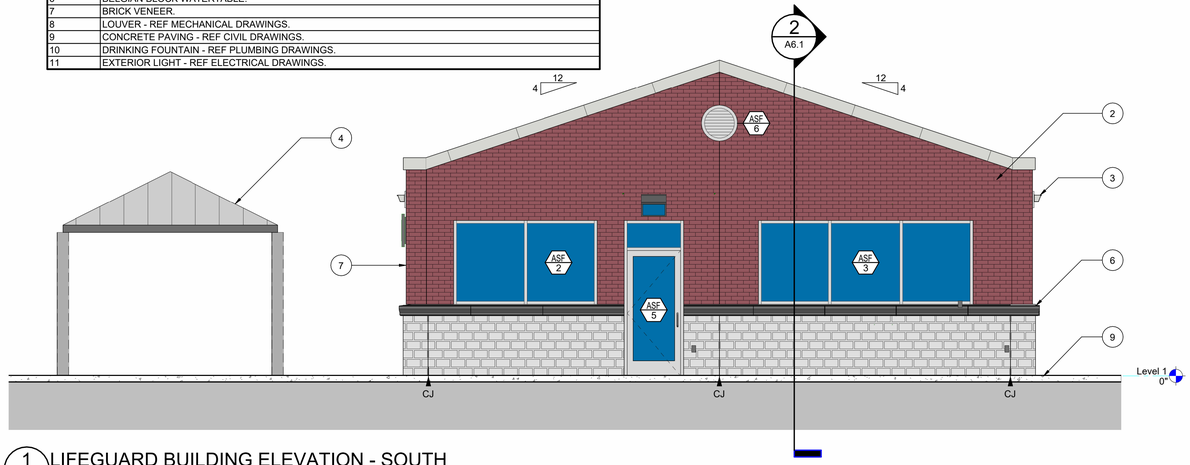
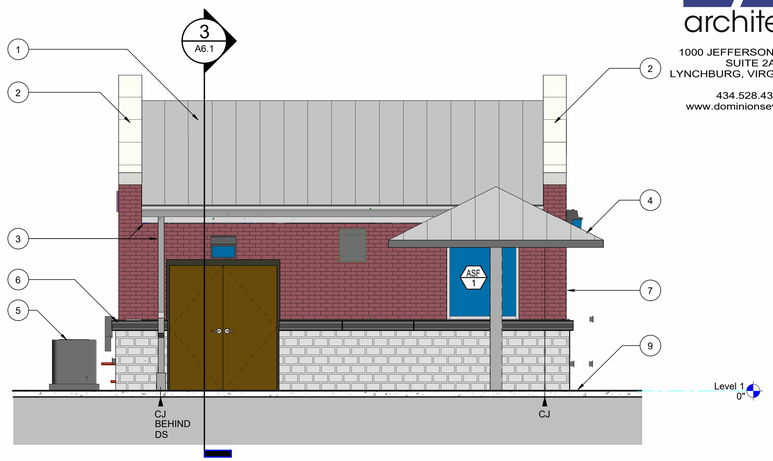
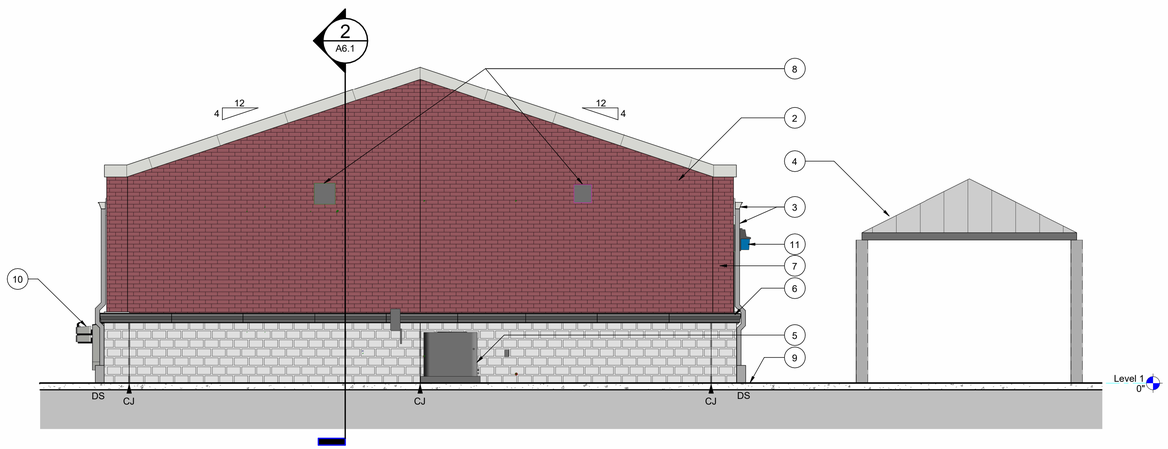
NEW WORK - KEY	
TAG	ASSOCIATED NEW WORK
1	STANDING SEAM METAL ROOF.
2	CAST STONE PARAPET.
3	METAL GUTTER & DOWNSPOUT.
4	PRE-FABRICATED CANOPY BASIS-OF-DESIGN IS POLYGON'S HIP ROOF SQUARE SHELTER – SSH-12x12-48098. ⚠1
5	OUTDOOR HVAC UNIT.
6	BELGIAN BLOCK WATERTABLE.
7	BRICK VENEER.
8	LOUVER - REF MECHANICAL DRAWINGS.
9	CONCRETE PAVING - REF CIVIL DRAWINGS.
10	DRINKING FOUNTAIN - REF PLUMBING DRAWINGS.
11	EXTERIOR LIGHT - REF ELECTRICAL DRAWINGS.



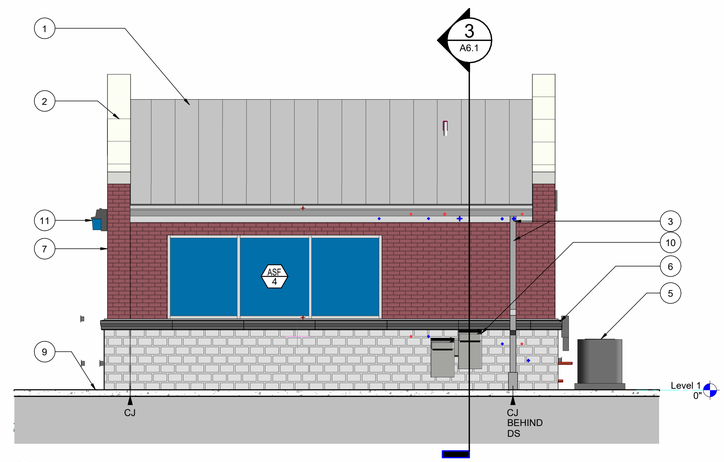
1 A4.1 LIFEGUARD BUILDING ELEVATION - SOUTH
SCALE: 1/4" = 1'-0"



2 A4.1 LIFEGUARD BUILDING ELEVATION - WEST
SCALE: 1/4" = 1'-0"



3 A4.1 LIFEGUARD BUILDING ELEVATION - NORTH
SCALE: 1/4" = 1'-0"



4 A4.1 LIFEGUARD BUILDING ELEVATION - EAST
SCALE: 1/4" = 1'-0"

0 2' 4' 8'
SCALE: 1/4" = 1'-0"

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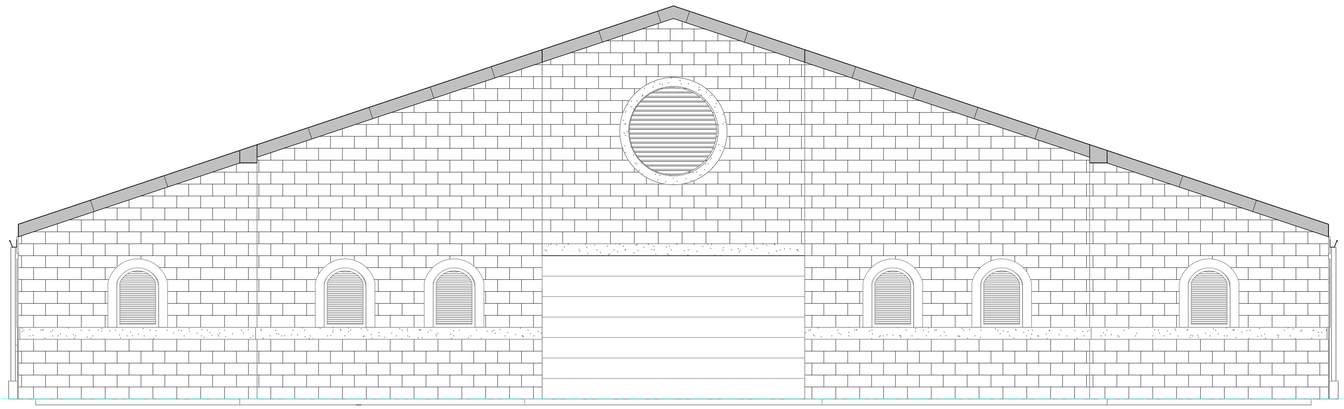
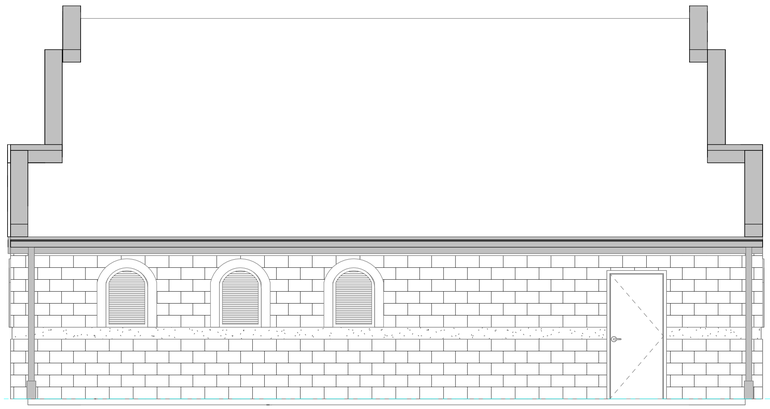


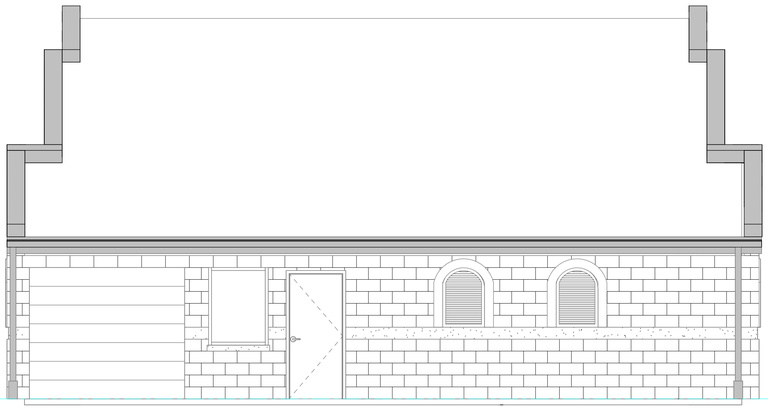
Level 1
0"

1 A4.2 POOL HOUSE ELEVATION - NORTH
SCALE: 1/4" = 1'-0"



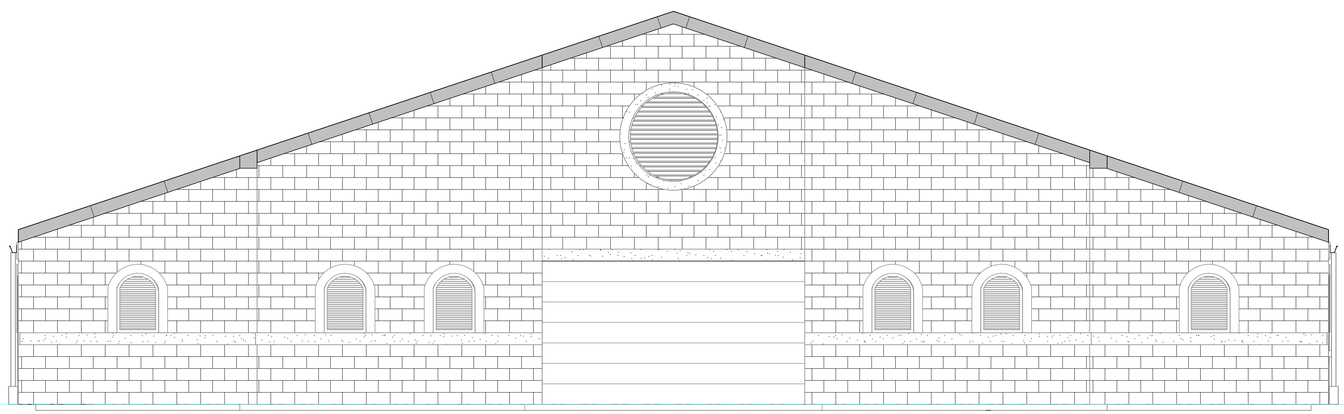
Level 1
0"

2 A4.2 POOL HOUSE ELEVATION - WEST
SCALE: 1/4" = 1'-0"



Level 1
0"

3 A4.2 POOL HOUSE ELEVATION - EAST
SCALE: 1/4" = 1'-0"



Level 1
0"

4 A4.2 POOL HOUSE ELEVATION - SOUTH
SCALE: 1/4" = 1'-0"

0 2' 4' 8'
SCALE: 1/4" = 1'-0"

1

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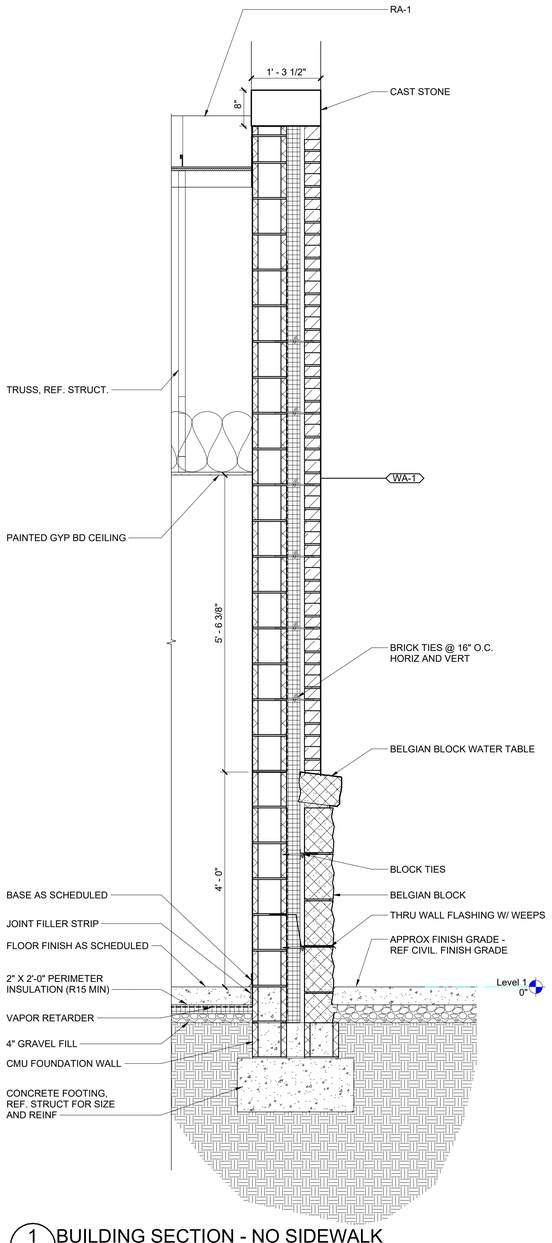
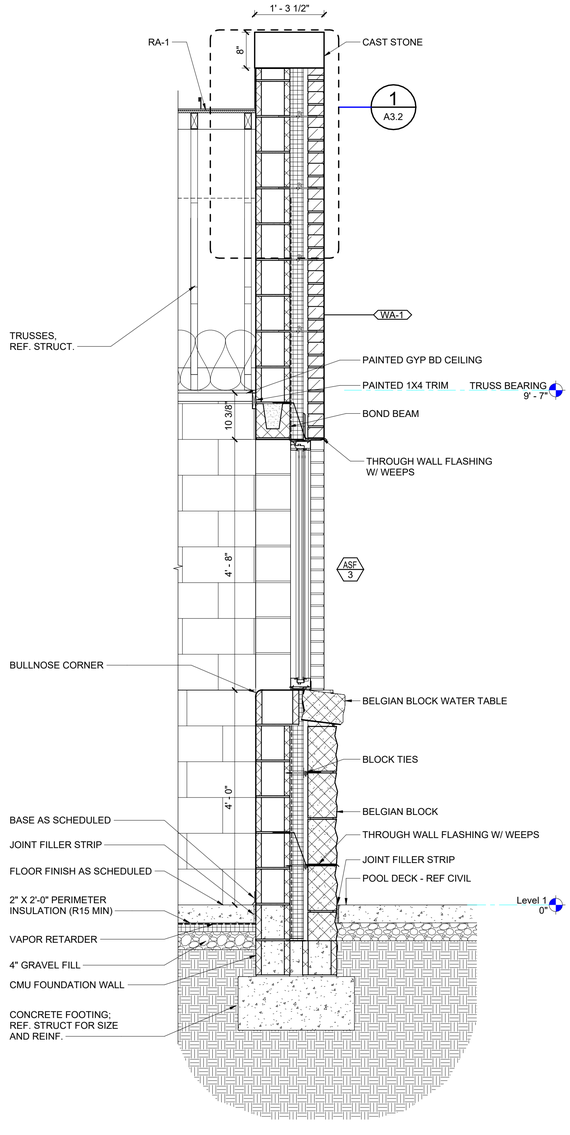


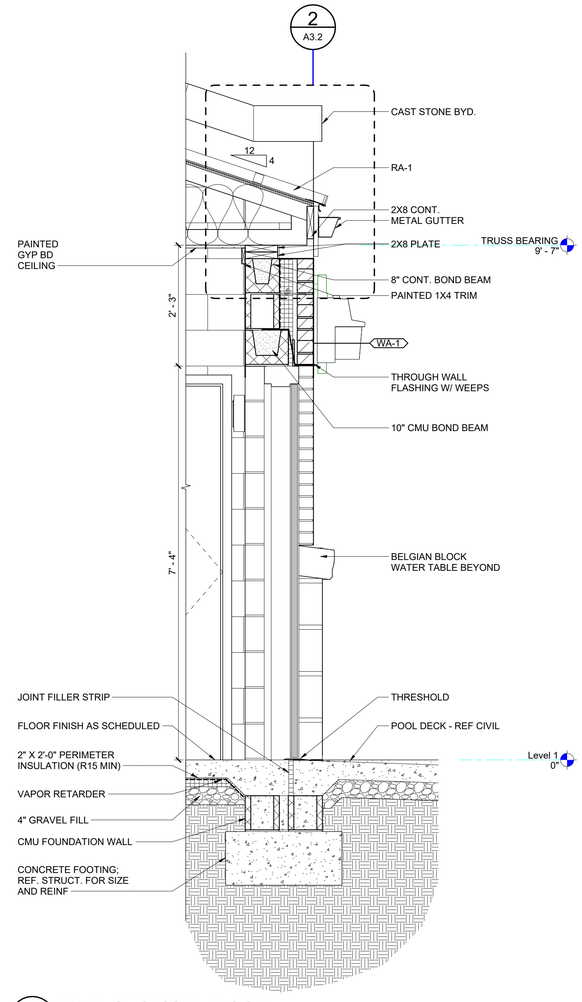
1 A6.1 BUILDING SECTION - NO SIDEWALK

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



2 A6.1 WALL SECTION - WINDOW

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



3 A6.1 WALL SECTION - DOOR

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

0 1' 2' 3'

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

#

#

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THE CITY OF LYNCHBURG

JOB NO.
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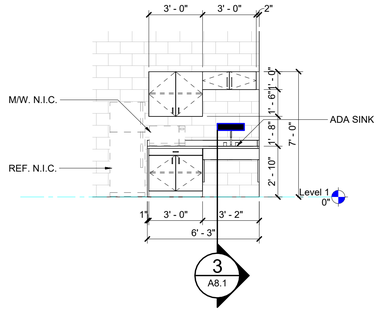
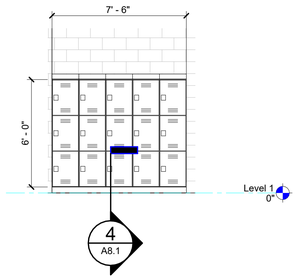


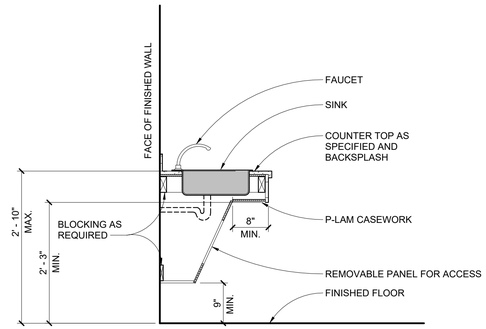
1 A8.1 INTERIOR ELEVATION - LIFEGUARD BUILDING KITCHENETTE

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



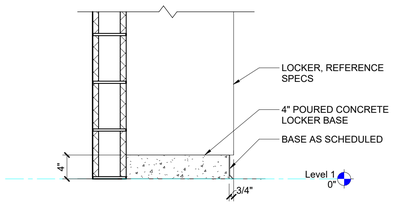
2 A8.1 INTERIOR ELEVATION - LIFEGUARD BUILDING LOCKERS

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



3 A8.1 ADA VANITY SECTION

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



4 A8.1 CONCRETE LOCKER BASE DETAIL

SCALE: 1" = 1'-0"

0 6" 1' 2'
SCALE: 1" = 1'-0"

0 1' 2' 3'
SCALE: 3/4" = 1'-0"

0 2' 4' 8'
SCALE: 1/4" = 1'-0"

#

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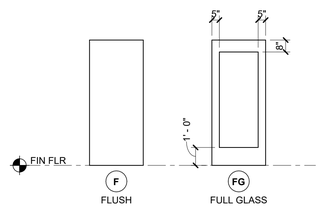
DOOR SCHEDULE

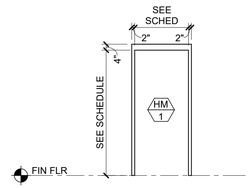
MARK	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR TYPE	DOOR MATERIAL	DOOR GLAZ	FRAME TYPE	FRAME MATERIAL	OTHER LABEL	OTHER HARDWARE	OTHER REMARKS
100	6' - 0"	7' - 0"	F	HM	---	HM-1	HM	---	2.0	
101A	3' - 0"	7' - 0"	FG	ALUM SF	GL-1	ASF-5	ALUM SF	---	1.0	
101B	3' - 0"	7' - 0"	F	HM	---	HM-1	HM	---	3.0	
102	3' - 0"	7' - 0"	F	HM	---	HM-1	HM	---	4.0	
PH-103	3' - 0"	7' - 0"	F	HM	---	HM-1	HM	90 MIN		

GLAZING SCHEDULE

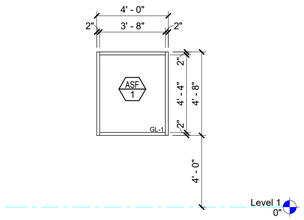
MARK	DESCRIPTION
GL-1	LOW-E COATED, TINTED INSULATED GLASS



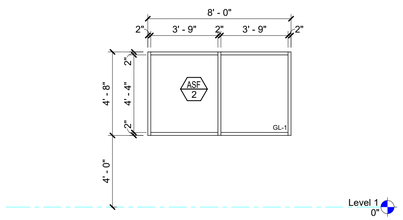
1 A9.1 DOOR TYPES
SCALE: 1/4" = 1'-0"



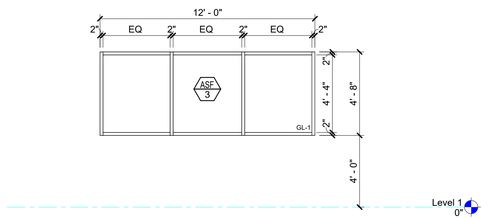
2 A9.1 FRAME TYPES
SCALE: 1/4" = 1'-0"



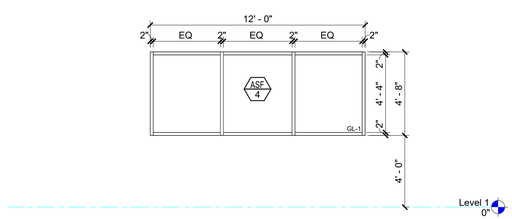
3 A9.1 WINDOW ELEVATION - ASF-1
SCALE: 1/4" = 1'-0"



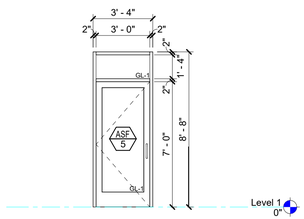
4 A9.1 WINDOW ELEVATION - ASF-2
SCALE: 1/4" = 1'-0"



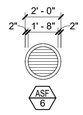
5 A9.1 WINDOW ELEVATION - ASF-3
SCALE: 1/4" = 1'-0"



6 A9.1 WINDOW ELEVATION - ASF-4
SCALE: 1/4" = 1'-0"



7 A9.1 WINDOW ELEVATION - ASF-5
SCALE: 1/4" = 1'-0"



8 A9.1 WINDOW ELEVATION - ASF-6
SCALE: 1/4" = 1'-0"

0 2' 4' 8'
SCALE: 1/4" = 1'-0"

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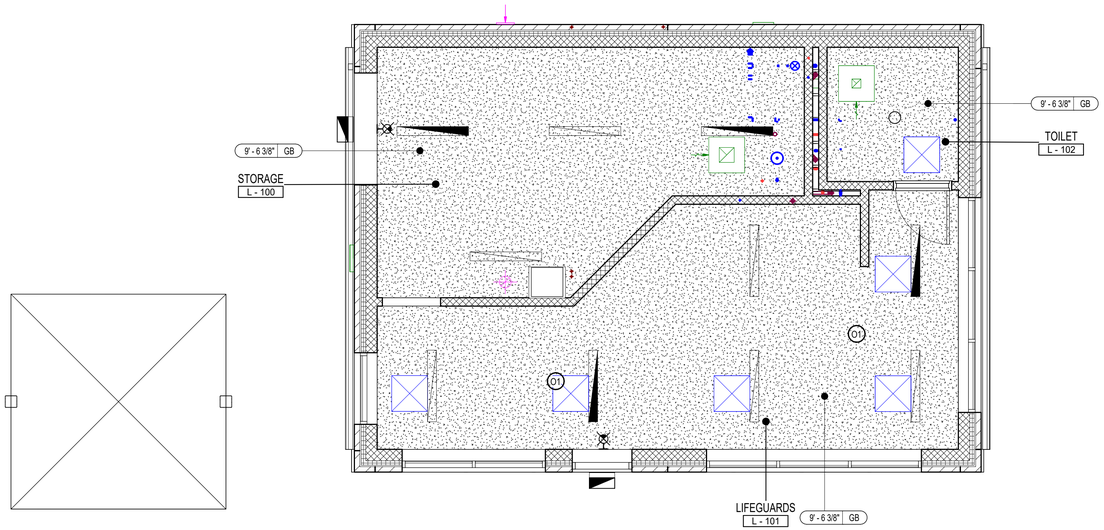

1 A10.1 LIFEGUARD BUILDING - REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

INTERIOR GYPSUM CEILING / SOFFIT / BULKHEAD - REF REFLECTED CEILING PLAN FOR HEIGHT

6"x4' CEILING LIGHT FIXTURE - REF ELECTRICAL DRAWINGS

DOWNLIGHT - REF ELECTRICAL DRAWINGS

SUPPLY DUCT SECTION - REF ELECTRICAL DRAWINGS

AIR HANDLER - REF MECHANICAL DRAWINGS

ROUND DUCT - REF MECHANICAL DRAWINGS

PERFORATED RETURN DIFFUSER - REF MECHANICAL DRAWINGS

CEILING HEIGHT
CEILING MATERIAL
X' - X" X — REFLECTED CEILING TAG

EXIT SIGN - REF ELECTRICAL DRAWINGS

01 — OCCUPANCY SENSOR - REF ELECTRICAL DRAWINGS

EXTERIOR LIGHT - REF ELECTRICAL DRAWINGS

PLAN NORTH / TRUE NORTH

0 2' 4' 8'
SCALE: 1/4" = 1'-0"

#
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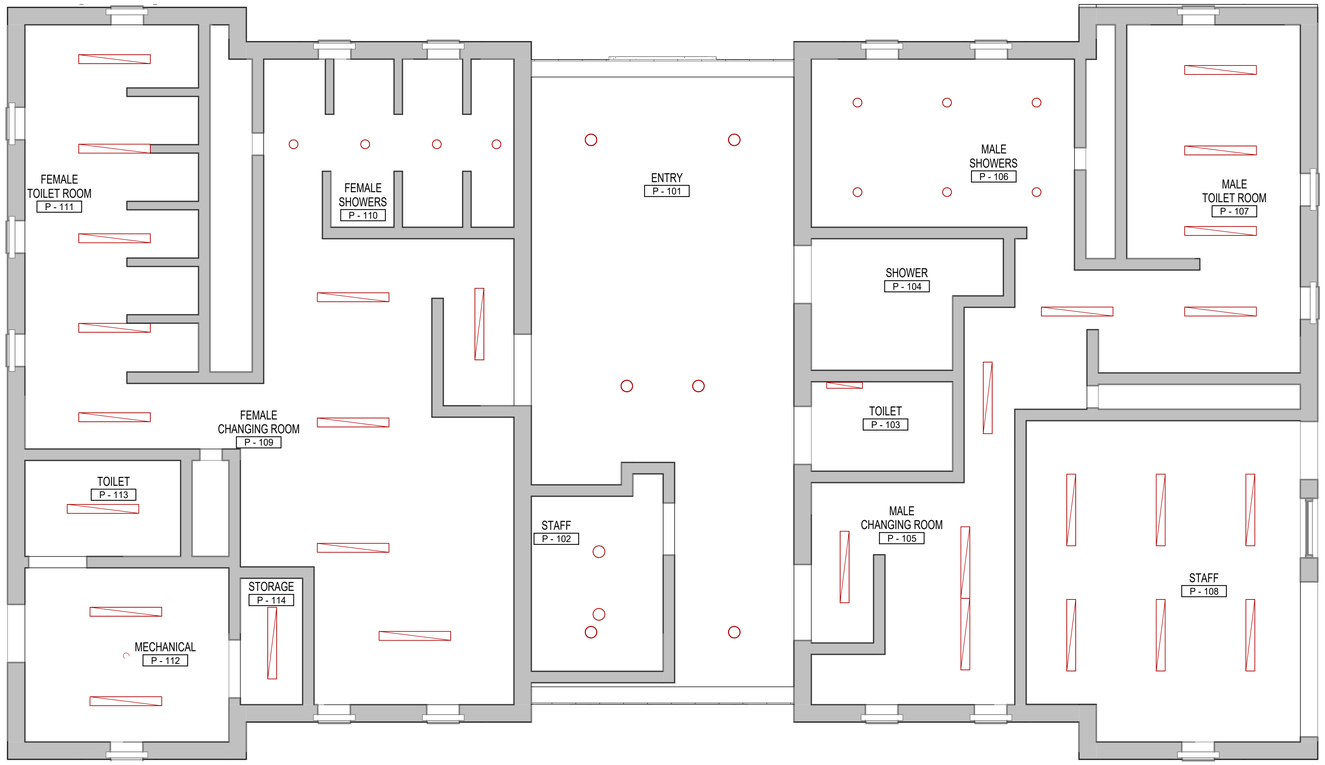

1 A10.2 POOL HOUSE - REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

INTERIOR EXISTING CEILING / SOFFIT/ BULKHEAD TO BE PAINTED - ALL LIGHT FIXTURES TO BE REMOVED AND REPLACED

- 6"x4' CEILING LIGHT FIXTURE - REF ELECTRICAL DRAWINGS
- PENDENT LIGHT - REF ELECTRICAL DRAWINGS
- DOWNLIGHT - REF ELECTRICAL DRAWINGS
- 01 OCCUPANCY SENSOR - REF ELECTRICAL DRAWINGS

PLAN NORTH / TRUE NORTH

0 2' 4' 8'
SCALE: 1/4" = 1'-0"

#
#

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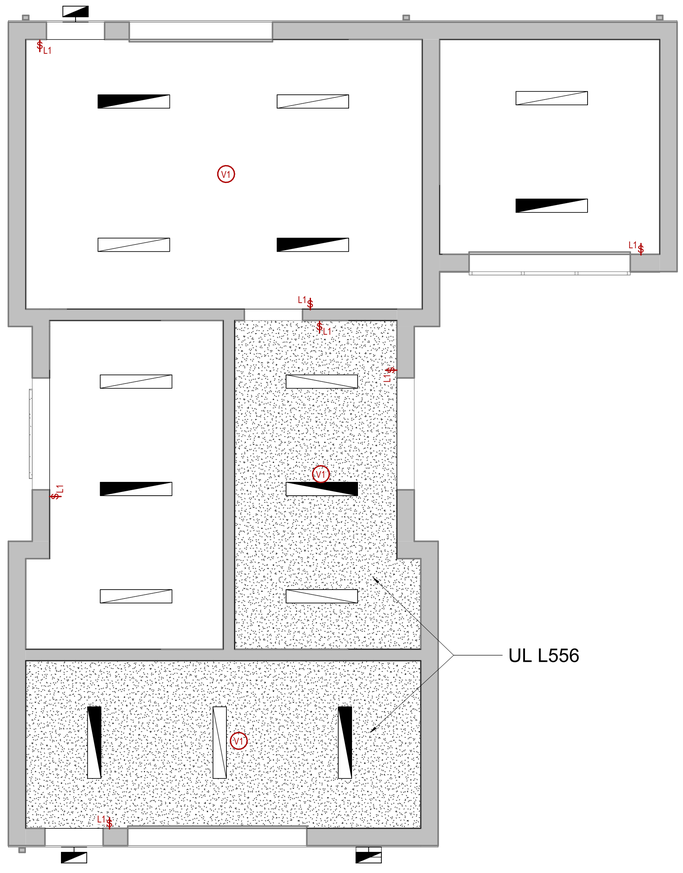

1 A10.3 PUMP HOUSE - REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

PLAN NORTH

TRUE NORTH

2 HR FIRE RATED DRYWALL CEILING - UL L556
REF REFLECTED CEILING PLAN FOR HEIGHT

6"x4' CEILING LIGHT FIXTURE - REF ELECTRICAL DRAWINGS

EXTERIOR LIGHT - REF ELECTRICAL DRAWINGS

CEILING HEIGHT

CEILING MATERIAL

X' - X" | X — REFLECTED CEILING TAG

V1 — OCCUPANCY SENSOR - REF ELECTRICAL DRAWINGS

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PLUMBING GENERAL NOTES

1. ALL WORK, METHODS AND INSTALLATIONS INVOLVED IN THE PLUMBING DESIGN SHALL BE IN ACCORDANCE WITH THE CITY BUILDING CODE, INSPECTION REGULATIONS AND ALL OTHER OFFICIALS HAVING JURISDICTION.
2. ALL SANITARY PIPING 3" AND LARGER ROUTED AT 1/8" SLOPE PER FOOT UNLESS OTHERWISE NOTED. ALL PIPE LESS THAN 3" SHALL BE ROUTED AT 1/4" SLOPE PER FOOT.
3. EACH VENT SHALL TERMINATE VERTICALLY NOT LESS THAN 6" ABOVE ROOF, MAINTAIN MINIMUM 10'-0" DISTANCE BETWEEN VENT TERMINALS THROUGH ROOF AND ALL FRESH AIR INTAKES, AND A MINIMUM 5'-0" FROM ANY EXTERIOR WALL.
4. CONTRACTOR TO FIELD VERIFY AS NECESSARY THE EXACT ROUTING AND SIZES OF ALL PIPING.
5. PROVIDE A TWO-WAY CLEANOUT AT CIVIL POINT OF CONNECTION.
6. CONTRACTOR SHALL COORDINATE ROUTING OF PIPING BELOW SLAB WITH COLUMN FOOTINGS, GRADE BEAMS, UNDERGROUND PLUMBING AND ELECTRICAL UTILITIES, AND OTHER SUB-SURFACE BUILDING ELEMENTS.
7. CONTRACTOR SHALL COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICAL EQUIPMENT, DUCTWORK AND CONDUIT. SHOULD A CONFLICT OCCUR THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO INSTALLING AN ALTERNATE PIPING PLAN.
8. COORDINATE ALL FIXTURE AND EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS WITH LATEST ARCHITECTURAL DRAWINGS AND SPECIFICATIONS PRIOR TO ANY ROUGH-INS.
9. DO NOT ROUGH-IN FROM THESE DRAWINGS. REFER TO LATEST ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS.
10. PRIOR TO BEGINNING CONSTRUCTION, COORDINATE BUILDING BACKFLOW PREVENTION REQUIREMENTS WITH THE LOCAL AUTHORITY HAVING JURISDICTION AND PROVIDE AS DIRECTED.
11. WITHIN THE EXISTING BUILDING, EXISTING WATER, WASTE AND VENT SERVICES ARE TO BE MODIFIED AS REQUIRED AND REUSED FOR THE INSTALLATION OF NEW AND/OR RELOCATED PLUMBING FIXTURES. REFER TO PLUMBING FLOOR PLANS FOR POINTS OF CONNECTION.
12. WITHIN THE EXISTING BUILDING, SAWCUT AND REMOVE EXISTING FLOOR SLAB AS REQUIRED TO PROVIDE NEW AND/OR RELOCATED PLUMBING FIXTURES, CLEANOUTS, AND UNDERSLAB WASTE AND VENT PIPING. PATCH AND REFINISH FLOOR TO MATCH EXISTING.
13. IN AREAS WHERE THE FLOOR SLAB IS REMOVED, CONTRACTOR SHALL ALSO REMOVE UNDERSLAB WASTE AND VENT PIPING WHICH SERVES FIXTURES DESIGNATED FOR REMOVAL. PRIOR TO ANY REMOVAL, FIELD VERIFY THAT LINES TO BE REMOVED DO NOT SERVE ANY EXISTING FIXTURES TO REMAIN OR NEW FIXTURES TO BE INSTALLED.
14. IN AREAS WHERE THE FLOOR SLAB IS NOT REMOVED, CONTRACTOR SHALL ABANDON IN PLACE ANY UNDERSLAB WASTE AND VENT PIPING NO LONGER NEEDED, UNLESS THE PIPING MUST BE REMOVED TO ACCOMMODATE NEW CONSTRUCTION. IF NEW WORK DOES NOT NECESSITATE THEIR REMOVAL, CUT AND PLUG SUCH LINES BELOW SLAB, AND PATCH FLOOR TO MATCH EXISTING.
15. FIELD VERIFY EXACT LOCATION, SIZE, DEPTH, DIRECTION OF FLOW, CAPACITY, PIPE MATERIAL AND CONDITION OF EXISTING WASTE PIPING PRIOR TO BEGINNING CONSTRUCTION. ENSURE THAT PROPER CONNECTIONS TO AND EXTENSION OF SUCH UTILITIES CAN BE MADE.
16. WASTE LINES TO BE RE-USED OR RECONNECTED TO SHALL BE THOROUGHLY RODDED OUT AND FLUSHED TO ENSURE THEY ARE FREE FROM BLOCKAGES.
17. CONTRACTOR TO COORDINATE ALL REMODEL WORK WITH THE WORK OF OTHER TRADES TO AVOID CONFLICTS AND TO MINIMIZE INTERRUPTION OF SERVICES.
18. THE PROPER INSTALLATION OF NEW FIXTURES AND THE PROPER CONTINUED OPERATION OF EXISTING FIXTURES TO REMAIN SHALL DETERMINE THE EXTENT AND NATURE OF PLUMBING REMODEL WORK.
19. RESTORE FIXTURES TO MANUFACTURER'S ORIGINAL CONDITION. THIS SHALL INCLUDE RESTORATION OF ALL FIXTURES PARTS READILY AND NON-READILY ACCESSIBLE COMPONENTS, INCLUDING ALL HARDWARE AND SEALS AS REQUIRED FOR SATISFACTORY OPERATION AND COMPLETENESS. THIS ALSO SHALL INCLUDE CLEANING THE EXTERIOR OF ALL EXPOSED PIPING TO LIKE NEW CONDITION AND PAINTING OF VITREOUS CHINA EXPOSED SURFACES AS NEEDED TO RESTORE TO ORIGINAL MANUFACTURERS CONDITION. THE CONTRACTOR MAY OPT TO REPLACE ANY FIXTURE OR PIPING WITH A LIKE APPROVED/SUBMITTED ITEM.
20. CONTRACTOR SHALL CHECK ALL LOCATIONS, MEASUREMENTS, DEPTHS, AND REPORT ANY DISCREPANCIES FOR CORRECTION BEFORE DEMOLITION.

PLUMBING PIPING LEGEND

SYMBOLS	DESCRIPTION
	SANITARY OR WASTE PIPING ABOVE GRADE (SAN)
	SANITARY OR WASTE PIPING BELOW GRADE (SAN)
	VENT PIPING (V)
	COLD WATER PIPING (CW)
	HOT WATER PIPING (HW)
	FLOW DIRECTIONAL ARROW
	BALL VALVE
	REDUCED PRESSURE BACKFLOW PREVENTER (RPBFP)
	WATER HAMMER ARRESTOR (WHA)
	PIPING DOWN
	RISE OR DROP PIPING
	PIPING UP -OR- PIPING UP & DOWN
	CAP ON END OF PIPE
	CLEANOUT (WALL OR CEILING) (CO)
	FLOOR CLEANOUT (FCO)
	EXTERIOR CLEANOUT WITH 18"x18"x4" CONCRETE PAD (ECO)
	TWO-WAY CLEANOUT (PROVIDE 18"x24"x4" CONCRETE PAD OUTSIDE)
	BRANCH CONNECTION OUT OF TOP
	BRANCH CONNECTION OUT OF BOTTOM
	BRANCH CONNECTION OUT OF SIDE WYE & 1/8TH BEND BRANCH CONNECTION
	WYE BRANCH CONNECTION
	WALL HYDRANT
0	REFER TO DEMOLITION NOTE
0	REFER TO KEYED NOTE
	FLOOR DRAIN WITH P-TRAP (FD)
	FLOOR DRAIN WITH P-TRAP AT 45° ANGLE (FD)
(E)	EXISTING
(N)	NEW
VTR	VENT THRU ROOF
	DEMOLISH TO THIS POINT
	NEW CONNECTION

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salasobrien.com 540-952-9651
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05/22/2026
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PROFESSIONAL ENGINEER

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JOB NO. 57972.002
SHEET NO. P001

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PLUMBING SPECIFICATIONS

GENERAL

A. PERFORM WORK IN ACCORDANCE WITH APPLICABLE STATUTES, ORDINANCES, CODES AND REGULATIONS OF GOVERNMENTAL AUTHORITIES HAVING JURISDICTION.

B. OBTAIN ALL PERMITS REQUIRED.

C. CONTRACT DRAWINGS ARE DIAGRAMMATIC ONLY AND DO NOT GIVE FULLY DIMENSIONED LOCATIONS OF VARIOUS ELEMENTS OF WORK. DETERMINE EXACT LOCATIONS FROM FIELD MEASUREMENTS.

D. GUARANTEE WORK FOR 1 YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION OF THE PROJECT. DURING THAT PERIOD MAKE GOOD ANY FAULTS OR IMPERFECTIONS THAT MAY ARISE DUE TO DEFECTS OR OMISSIONS IN MATERIAL, EQUIPMENT OR WORKMANSHIP. AT THE OWNER'S OPTION, REPLACEMENT OF FAILED PARTS OR EQUIPMENT SHALL BE PROVIDED.

E. PROVIDE FINISHES TO MATCH APPROVED SAMPLES. ALL EXPOSED FINISHES SHALL BE APPROVED BY THE ARCHITECT. SUBMIT COLOR SAMPLES AS REQUIRED.

F. PROVIDE EQUIPMENT HOUSEKEEPING PADS UNDER ALL FLOOR MOUNTED AND GROUND MOUNTED PLUMBING EQUIPMENT, AND AS SHOWN ON THE DRAWINGS. CONRETE PADS ARE TO BE 4" THICK UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

G. PROVIDE NAMEPLATES WITH 1/2" HIGH LETTERS AND FASTENED WITH EPOXY OR SCREWS.

H. MAINTAIN QUALITY CONTROL OVER SUPERVISION, SUBCONTRACTORS, SUPPLIERS, MANUFACTURERES, PRODUCTS, SERVICES, SITE CONDITIONS AND WORKMANSHIP TO PRODUCE WORK IN ACCORDANCE WITH CONTRACT DOCUMENTS.

I. COMPLY WITH INDUSTRY STANDARDS EXCEPT WHEN MORE RESTRICTIVE TOLERANCES OR SPECIFIED REQUIREMENTS INDICATE MORE RIGID STANDARDS OR MORE PRECISE WORKMANSHIP.

J. PERFORM WORK BY PERSONS QUALIFIED TO PRODUCE WORKMANSHIP OF SPECIFIED QUALITY.

K. SECURE PRODUCTS IN PLACE WITH POSITIVE ANCHORAGE DEVICES DESIGNED AND SIZED TO WITHSTAND STRESSES, VIBRATION, AND RACKING. UNDER NO CONDITIONS SHALL MATERIAL OR EQUIPMENT BE SUSPENDED FROM STRUCTURAL BRIDGING

L. COMPLY WITH INSTRUCTIONS IN FULL DETAIL, INCLUDIONG EACH STEP IN SEQUENCE. SHOULD INSTRUCTION CONFLICT WITH CONTRACT DOCUMENTS, REQUEST CLARIFICATION FROM ARCHITECT/ENGINEER BEFORE PROCESSING.

EARTHWORK

A. EXCAVATE AND BACKFILL FOR PIPE TRENCHES FOR UNDERGROUND PIPING, AND EXCAVATE FOR STRUCTURES INSTALLED AS PART OF MECHANICAL WORK.

B. REMOVE EXCESS EXCAVATION MATERIAL OR MATERIAL UNSUITABLE FOR BACKFILL. EXCESS MATERIAL CAN BE SPREAD ON GRADE, OR SHALL BE REMOVED FROM SITE AS DIRECTED BY THE OWNER/ARCHITECT.

PLUMBING ALTERATIONS

A. INSPECT AND SERVICE EXISTING EQUIPMENT, FIXTURES AND MATERIALS THAT ARE TO REMAIN OR TO BE REUSED.

B. DISPOSAL OF EQUIPMENT, FIXTURES, MATERIALS, OR HOUSEKEEPING PADS TO BE ABANDONED. PRIOR TO DISPOSAL, THE CONTRACTOR SHALL VERIFY WITH THE OWNER WHAT IS TO BE SALVAGED BY THE OWNER AND WHAT IS TO BECOME THE PROPERTY OF THE CONTRACTOR.

C. INSPECTION: EXISTING MATERIALS AND EQUIPMENT INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS TO BE REUSED SHALL BE INSPECTED FOR DAMAGE OR MISSING PARTS. CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER, IN WRITING ACCORDINGLY. IF USING MATERIALS SPECIFIED OR SHOWN ON THE DRAWING VOIDS OR DIMNINISHES THE WARRANTY OR OPERATION OF REMAINING EQUIPMENT OR SYSTEMS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER, IN WRITING. DEMOLITION DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION, AND WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING EXISTING INSTALLATION, AND IMMEDIATELY AFTER SUCH DISCREPANCIES ARE DISCOVERED.

D. APPLICATION: EXISTING MATERIALS AND EQUIPMENT INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS TO BE REUSED SHALL BE CLEANED AND RECONDITIONED, INCLUDING CLEANING OF PIPING SYSTEMS AND HVAC COILS PRIOR TO INSTALLATION AND REUSE. MATERIAL AND EQUIPMENT REMOVED THAT IS NOT TO BE SALVAGED FOR OWNER'S USE OR FOR REUSE ON THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE REMOVED FROM THE SITE. MATERIAL OR EQUIPMENT SALVAGED FOR OWNER'S USE SHALL BE CAREFULLY HANDLED AND STORED WHERE DIRECTED BY THE OWNER OR THE ARCHITECT/ENGINEER. RELOCATE MATERIAL AND / OR EQUIPMENT AS DIRECTED BY OWNER. MATERIALS AND EQUIPMENT NOT INDICATED TO BE REMOVED OR ABANDONED SHALL BE RECONNECTED TO THE NEW SYSTEM. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL WALK AREAS TO BE RENOVATED WITH OWNER TO IDENTIFY AND DOCUMENT ITEMS TO BE SALVAGED FOR OWNER'S USE.

E. SEQUENCE AND SCHEDULE: COORDINATE UTILITY SERVICE OUTAGES WITH UTILITY COMPANY, ARCHITECT AND OWNER. REMOVE CONCRETE HOUSEKEEPING PAD WHERE MATERIALS OR EQUIPMENT HAVE BEEN REMOVED.

PLUMBING FIXTURES AND FIXTURES CARRIERS:

A. ACCEPTABLE MANUFACTURERS:
   A. VITREOUS CHINA FIXTURES: AMERICAN STANDARD, ELJER, KOHLER, TOTO, ZURN.
   B. PLUMBING FAUCETS: AMERICAN STANDARD, CHICAGO, T&S BRASS, ZURN, SYMMONS, MOEN COMMERCIAL HD
   C. SUPPORTS AND CARRIERS: ZURN, J.R. SMITH, WADE, JOSAM, WATTS/ANCON, MIFAB
   D. FLUSH VALVES: SLOAN, ZURN, MOEN COMMERCIAL HD
   E. SUPPLIES, STOPS AND CHROME PLATED TUBULAR BRASS: MCGUIRE, KOHLER, CHICAGO, ZURN, BRASSCRAFT
   F. WATER CLOSET SEATS: BENEKE, CHURCH, OLSONITE, BEMIS, CENTOCO
   G. FLOOR DRAINS: ZURN J.R. SMITH, JOSAM, WADE, WATTS/ANCON, SIOUX CHIEF, MIFAB
   H. CLEANOUTS: ZURN, J.R. SMITH, JOSAM, WADE, WATTS/ANCON, MIFAB
   I. MOP SINKS: CRANE FIAT, STERN WILLIAMS, ACORN, CECO
   J. THERMOSTATIC MIXING VALVES: LAWLER, SYMMONS, POWERS, HOLBY
   K. WALL HYDRANTS: WOODFORD, MIFAB, ZURN, J.R. SMITH, JOSAM, WADE

B. INSTALLATION:
   A. INSTALLATION SHALL BE ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
   B. PROVIDE NECESSARY STOPS, VALVE, TRAPS, UNIONS, VENTS, COLD WATER, HOT WATER, SANITARY, ETC. FOR A COMPLETE INSTALLATION.
   C. REMOVE PIPING AND SERVICES ROUGHED-IN INCORRECTLY AND INSTALL CORRECTLY, WITHOUT COST.
   D. EXPOSED PIPING, FITTINGS AND APPURTENANCES SHALL BE CHROME-PLATED BRASS.
   E. PROVIDE ISOLATION VALVES IN DOMESTIC WATER LINES TO ISOLATE ALL EQUIPMENT, RESTROOMS, HOSEBIBS, AND WHERE SHOWN ON DRAWINGS.

DOMESTIC WATER PIPING AND APPURTENANCES

A. FURNISH AND INSTALL DOMESTIC HOT AND COLD WATER PIPING.

B. BELOW SLAB ON GRADE PIPING. FURNISH ASTM B 88 AND ANSI/NSF STANDARD 61 COLD DRAWN, TYPE K COPPER WATER TUBE. RUN CONTINUOUS WITH NO JOINTS UNDER THE FLOOR SLAB. PROVIDE COPPER PIPE CORROSION PROTECTION AS SPECIFIED IN THIS SECTION.

C. ABOVE SLAB PIPING. PROVIDE SEAMLESS ASTM B 88 AND ANSI/NSF STANDARD 61 TYPE L COPPER WATER TUBE WITH WROUGHT COPPER AND BRONZE SOLDER-JOINT, ANSI B16.22. SOLDER MATERIAL SHALL BE 95-5 (LEAD FREE) (TIN-ANTIMONY-GRADE 95TA) ASTM 32.

D. WATER HAMMER ARRESTORS: PROVIDE PISTON TYPE HYDRAULIC ENGINEERED/MANUFACTURED WATER HAMMER ARRESTORS IN COLD AND HOT WATER SUPPLY LINES IN CHASES OR WALLS TO EACH FIXTURE BRANCH OR BATTERY OF FIXTURES SERVING QUICK CLOSING VALVES OF ELECTRICAL, PNEUMATIC, SPRING LOADED TYPE, OR QUICK HAND CLOSURE VALVES ON FIXTURE TRIM. PROVIDE WATER HAMMER ARRESTORS AT THE END OF THE BRANCH LINE BETWEEN THE LAST TWO FIXTURES SERVED. PROVIDE PRECISION PLUMBING PRODUCTS, INC., OR EQUAL. SIZE UNITS ACCORDING TO WATER HAMMER ARRESTOR'S STANDARD PDI WH-201; REFER TO SCHEDULE ON DRAWINGS.

E. AIR CHAMBERS: PROVIDE A MINIMUM 18-INCH LONG AIR CHAMBER, OF THE SAME SIZE AND CONNECTING PIPE MATERIAL AT EACH SINGLE LAVATORY, SINK, DRINKING FOUNTAIN OR FIXTURE THAT DOES NOT HAVE A QUICK-CLOSING VALVE OR ELECTRICAL, PNEUMATIC, SPRING LOADED TYPE, OR FLUSH VALVE. AIR CHAMBERS TO BE USED FOR REMOTE FIXTURES AND NOT MIXED WITH WATER HAMMER ARRESTORS AT GROUP TOILETS.

F. TESTING: TEST UNDER A COLD WATER HYDROSTATIC PRESSURE OF NOT LESS THAN 200 PSI FOR AT LEAST 15 MINUTES AND CAREFULLY CHECK FOR LEAKS. REPAIR LEAKS AND RETEST SYSTEM UNTIL PROVEN WATERTIGHT. USE ONLY POTABLE WATER FOR THE TEST. PERFORM THE TEST BEFORE FIXTURES, FAUCETS, TRIM OR FINAL CONNECTIONS ARE MADE TO EQUIPMENT.

G. COPPER PIPE CORROSION PROTECTION: CORROSION PROTECT COPPER TUBE PIPING SYSTEMS: IN THE BUILDING SLAB.

H. COVER COPPER TUBING PIPING SYSTEM WITH: "TAPECOAT" TC PRIMER. EXTEND THE CORROSION PROTECTION 2 INCHES ABOVE CONCRETE SLAB ON GRADE.

I. STERILIZE THE WATER SYSTEM WITH SOLUTION CONTAINING NOT LESS THAN 50PPM AVAILABLE CHLORINE. ALLOW CHLORINATING SOLUTION TO REMAIN IN SYSTEM FOR PERIOD OF 8 HOURS (MINIMUM). HAVE VALVES AND FAUCETS OPENED AND CLOSED SEVERAL TIMES DURING THE PERIOD. AFTER STERILIZATION, FLUSH THE SOLUTION FROM THE SYSTEM WITH CLEAN WATER UNTIL RESIDUAL CHLORINE CONTENT IS LESS THAN 0.2 PARTS PER MILLION.

SOIL, WASTE AND SANITARY DRAIN PIPING, VENT PIPING AND APPURTENANCES

A. ABOVE SLAB PIPING: SCHEDULE 40 PVC PLASTIC PIPE AND DWV FITTINGS WITH SOLVENT WELDED JOINTS. PIPE AND FITTINGS SHALL CONFORM TO ASTM D 1784-82.

B. BELOW SLAB ON GRADE PIPING: SCHEDULE 40 PVC PLASTIC PIPE AND DWV FITTINGS. SOLVENT WELDED DWV JOINTS SHALL CONFORM TO IAPMO INSTALLATION STANDARD IS-9. PIPE AND FITTINGS SHALL CONFORM TO ASTM D 1784, ASTM D 1785, ASTM D 2665, ASTM D 3311 AND NPS STANDARD 14 & 61.

C. VENT PIPE AND FITTINGS: ABOVE SLAB PIPING. PROVIDE SCHEDULE 40 PVC PLASTIC PIPE AND DWV FITTINGS WITH SOLVENT WELDED JOINTS. PIPE AND FITTINGS SHALL CONFORM TO ASTM D 1784-82.

D. BELOW SLAB ON GRADE PIPING: SAME AS DRAIN PIPE AND FITTINGS LISTED ABOVE.

E. TESTING: BELOW SLAB ON GRADE AND ALL FLOORS IN MULTI-STORY BUILDINGS: TEST PIPE BELOW SLAB ON GRADE BEFORE BACKFILLING AND CONNECTING TO CITY SEWERS. MAINTAIN NOT LESS THAN 10 FOOT OF HYDROSTATIC HEAD FOR 1 HOUR WITHOUT A LEAK.

F. RODDING SEWERS: ALL SANITARY SOIL AND WASTE LINES, BOTH IN THE BUILDING AND OUT, SHALL BE RODDED OUT AND FLUSHED OUT AFTER COMPLETION OF CONSTRUCTION AND PRIOR TO FINISH FLOOR BEING INSTALLED. ALL WORK MUST BE COMPLETED PRIOR TO SUBSTANTIAL COMPLETION. ALL FLOOR DRAINS AND CLEANOUT LOCATIONS MUST BE INCLUDED IN THIS WORK.

ELECTRIC WATER HEATER

A. ACCEPTABLE MANUFACTURERS: LOCHINVAR, STATE, RHEEM/RUUD, A.O. SMITH

B. PROVIDE ELECTRIC WATER HEATERS WITH KILOWATT, REVOVERY RATINGS, AND STORAGE CAPACITIES AS SCHEDULED ON DRAWINGS.

C. PROVIDE AT EACH HEATER AN AUTOMATIC TEMPERATURE AND PRESSURE RELIEF VALVE WITH RATING MATCHING OR EXCEEDING THE ENERGY INPUT RATE.

D. INSTALL WATER HEATER IN GALVANIZED DRAIN PAN PIPED TO FLOOR DRAIN. PROVIDE 3" OUTLET CONNECTION.

DOMESTIC WATER INSULATION

A. ELASTOMERIC INSULATION: INSULATION MATERIAL SHALL BE FLEXIBLE, CLOSED-CELL ELASTIC INSULATION IN TUBULAR OR SHEET FORM. MATERIAL SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DEVELOPED RATING OF 50 OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM E84, LATEST REVISION.

B. FIBERGLASS INSULATION: HEAVY DENSITY, DUAL TEMPERATURE FIBERGLASS INSULATION WITH FACTORY APPLIED, ALL SERVICE, REINFORCED VAPOR BARRIER JACKET HAVING INTEGRAL LAMINATED VAPOR BARRIER. PROVIDE WITH A FACTORY APPLIED PRESSURE SENSITIVE TAPE CLOSURE SYSTEM AND MATCHING BUTT STRIPS.

C. COVER ALL HOT & COLD WATER PIPING WITH INSULATION BY SLITTING TUBULAR SECTIONS OR SLIDING UN-SLIT SECTIONS OVER THE OPEN ENDS OF PIPING OR TUBING. SEAMS AND BUTT JOINTS SHALL BE ADHERED AND SEALED USING ADHESIVE.

D. ALL FITTINGS SHALL BE INSULATED WITH THE SAME INSULATION THICKNESS AS THE ADJACENT PIPING. ALL SEAMS AND MITERED JOINTS SHALL BE ADHERED WITH ADHESIVE.

E. INSULATION APPLICATIONS:
   a. INDOOR CONCEALED: ELASTOMERIC
   b. INDOOR EXPOSED: FIBERGLASS

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COMMONWEALTH OF VIRGINIA
05/22/2026
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SCALE N/A

MILLER PARK POOL
THE CITY OF LYNCHBURG

JOB NO. 57972.002
SHEET NO. P002

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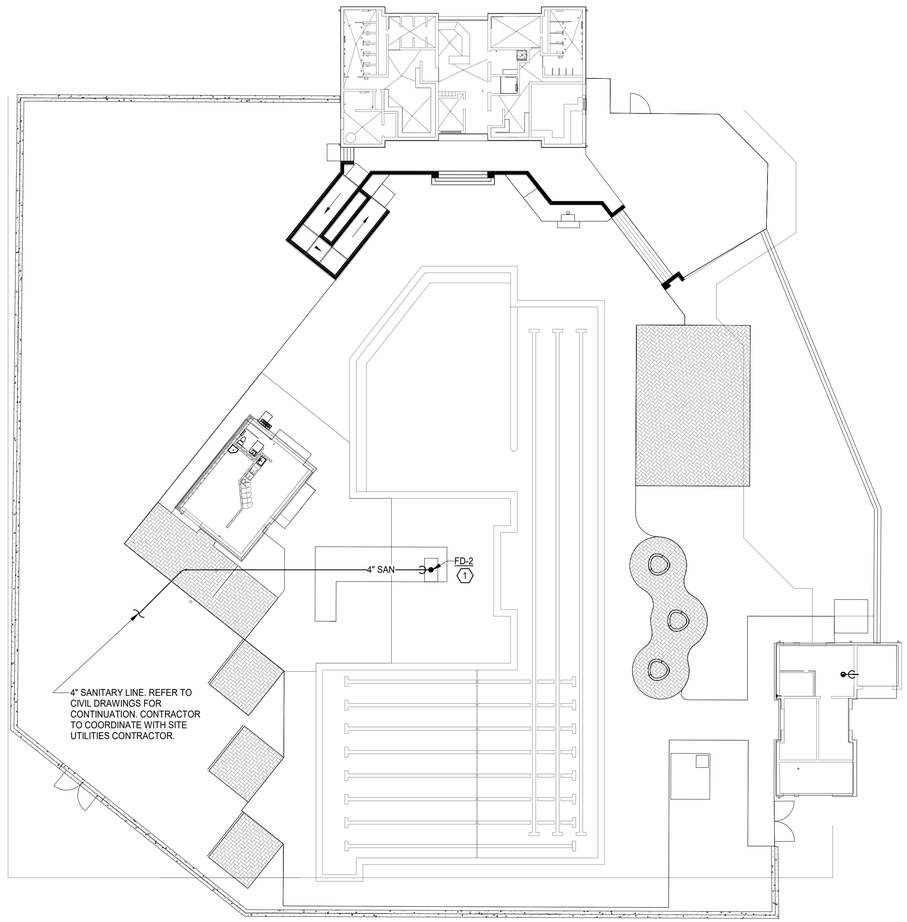

PLUMBING KEYNOTES:

1. PROVIDE FD-2 CENTERED IN NEW SLIDE PUMP PIT (5'-0" BELOW GRADE).

1 **PLUMBING SITE PLAN**
Scale: 3/64" = 1'-0"

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MILLER PARK POOL
THE CITY OF LYNCHBURG

JOB NO. 57972.002
SHEET NO. P100

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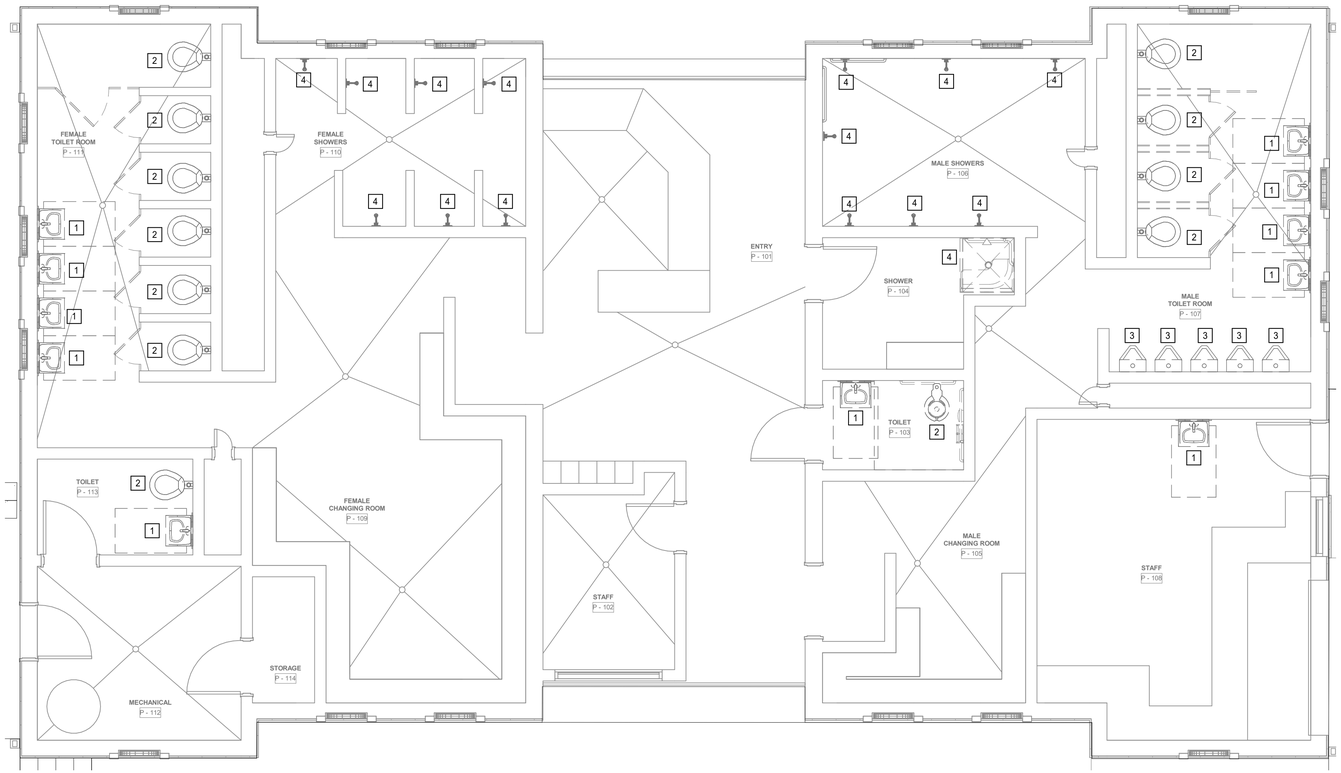

1 ADD ALT - DEMOLITION FLOOR PLAN - POOLHOUSE - PLUMBING
Scale: 1/4" = 1'-0"

DEMOLITION KEYED NOTES:

1. REMOVE EXISTING LAVATORY. PATCH FLOOR, CEILING, AND WALLS TO MATCH EXISTING CONDITIONS. PREPARE ALL PIPING AND APPURTENANCES FOR FUTURE RECONNECTION IN NEW CONSTRUCTION PHASE.
2. REMOVE EXISTING WATER CLOSET. PATCH FLOOR, CEILING, AND WALLS TO MATCH EXISTING CONDITIONS. PREPARE ALL PIPING AND APPURTENANCES FOR FUTURE RECONNECTION IN NEW CONSTRUCTION PHASE.
3. REMOVE EXISTING URINAL. PATCH FLOOR, CEILING, AND WALLS TO MATCH EXISTING CONDITIONS. PREPARE ALL PIPING AND APPURTENANCES FOR FUTURE RECONNECTION IN NEW CONSTRUCTION PHASE.
4. REMOVE EXISTING SHOWER. PATCH FLOOR, CEILING, AND WALLS TO MATCH EXISTING CONDITIONS. PREPARE ALL PIPING AND APPURTENANCES FOR FUTURE RECONNECTION IN NEW CONSTRUCTION PHASE.

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MILLER PARK POOL
THE CITY OF LYNCHBURG

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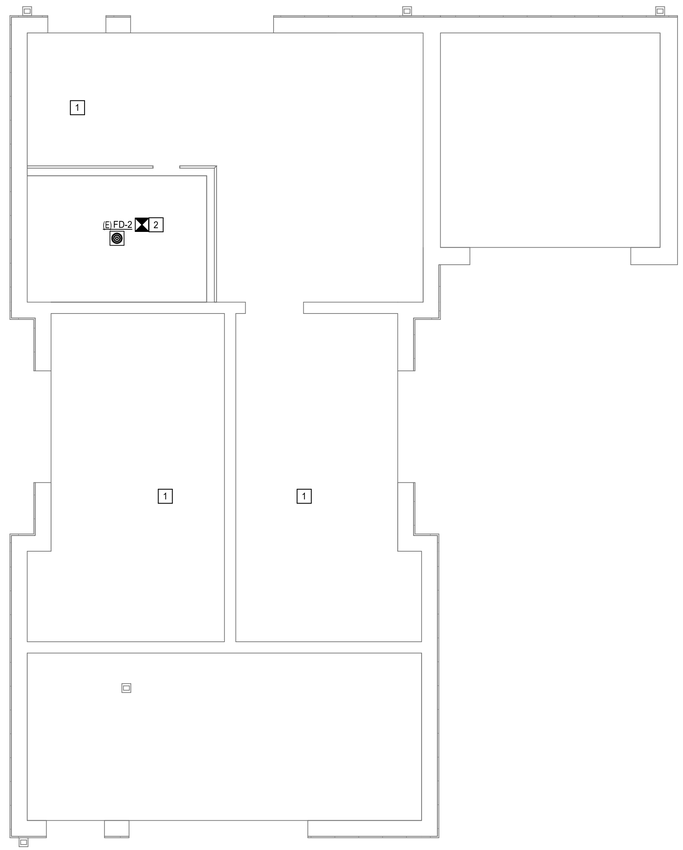

1 **DEMOLITION FLOOR PLAN - MAINTENANCE BUILDING - PLUMBING**
Scale: 1/4" = 1'-0"

DEMOLITION KEYNOTES:

1. DEMOLISH ALL EXISTING PLUMBING FIXTURES, PIPING, AND APPURTENANCES IN THIS SPACE.
2. DEMOLISH EXISTING FLOOR DRAIN. CAP EXISTING SANITARY AND PREPARE FOR FIXTURE REPLACEMENT IN KIND IN NEW WORK PHASE.

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MILLER PARK POOL
THE CITY OF LYNCHBURG

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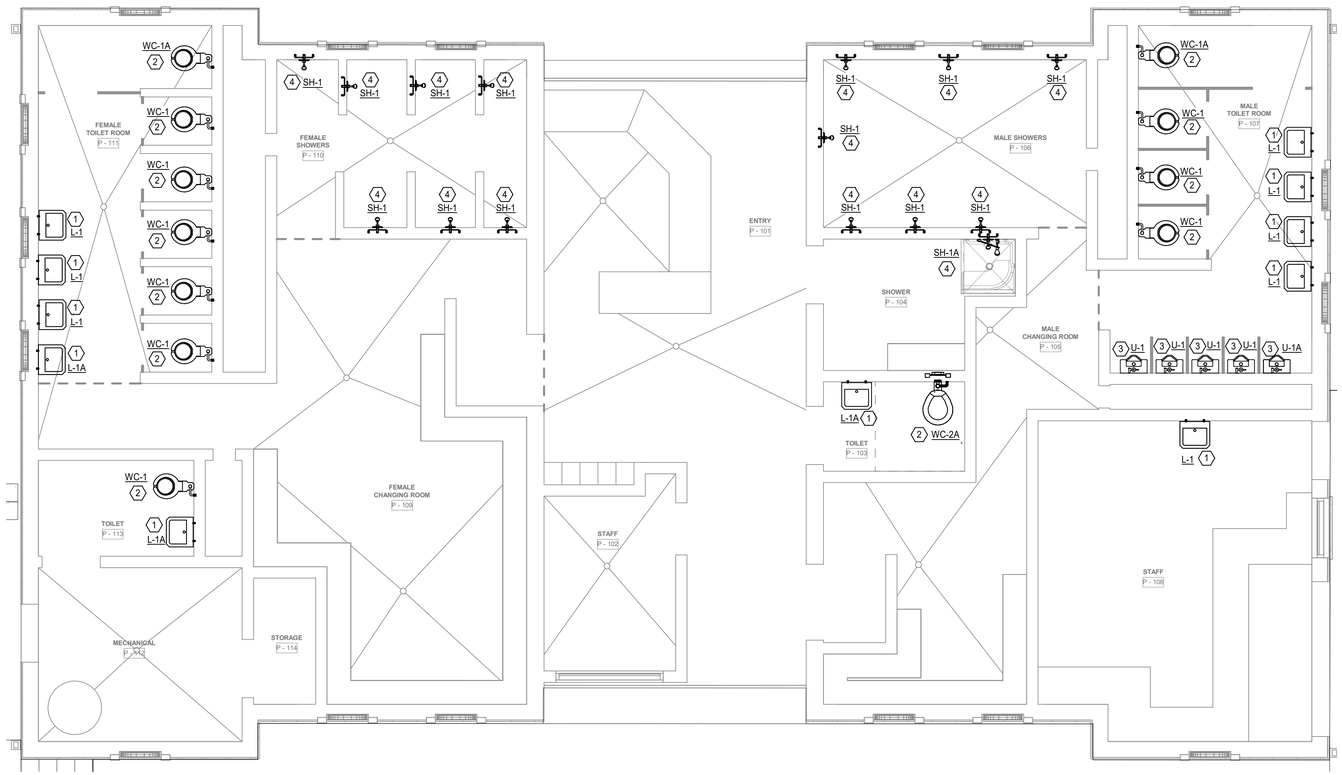

PLUMBING KEYNOTES:

1. NEW LAVATORY. CONNECT TO EXISTING PIPING CAPPED IN DEMOLITION PHASE. FIELD VERIFY EXACT LOCATIONS.
2. NEW WATER CLOSET. CONNECT TO EXISTING PIPING CAPPED IN DEMOLITION PHASE. FIELD VERFY EXACT LOCATIONS.
3. NEW URINAL. CONNECT TO EXISTING PIPING CAPPED IN DEMOLITION PHASE. FIELD VERFY EXACT LOCATIONS.
4. NEW SHOWER. CONNECT TO EXISTING PIPING CAPPED IN DEMOLITION PHASE. FIELD VERFY EXACT LOCATIONS.

2 ADD ALT - NEW WORK FLOOR PLAN - POOLHOUSE - PLUMBING

Scale: 1/4" = 1'-0"

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MILLER PARK POOL
THE CITY OF LYNCHBURG

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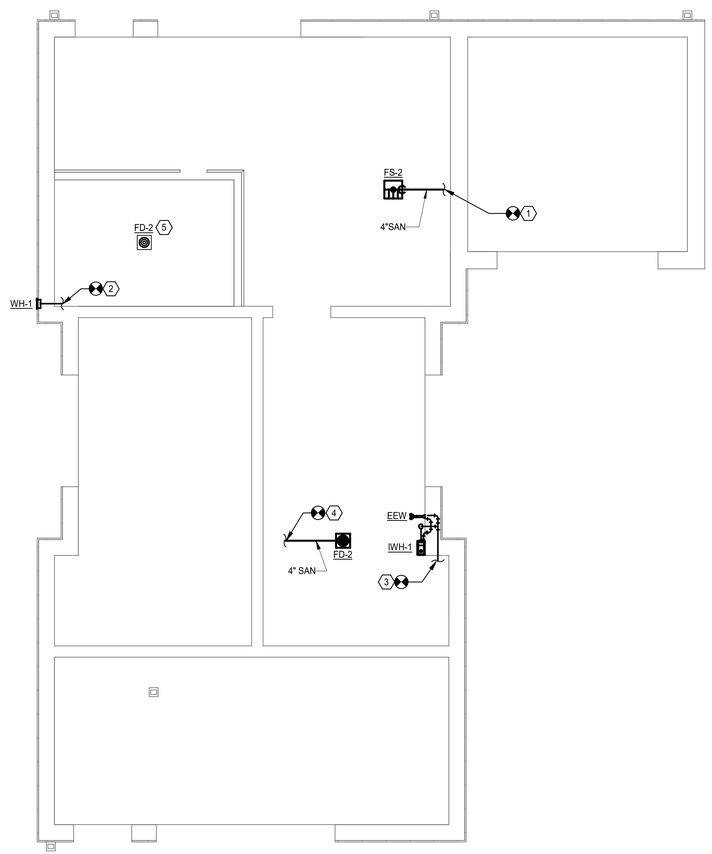

PLUMBING KEYNOTES:

1. CONNECT 4" SANITARY LINE FROM FLOOR SINK SERVING BACKWASH TANK TO NEAREST EXISTING ACTIVE 4" OR LARGER SANITARY LINE. REFER TO POOL CONRACTOR'S DRAWINGS FOR EQUIPMENT CONNECTION.
2. CONNECT TO 1" DOMESTIC COLD WATER PIPING. REFER TO POOL CONTRACTOR'S DRAWINGS FOR EXACT LOCATION.
3. CONNECT TO NEAREST EXISTING ACTIVE 1/2" OR LARGER DOMESTIC COLD WATER PIPING.
4. CONNECT TO NEAREST EXISTING ACTIVE 4" OR LARGER VENTED SANITARY PIPING.
5. INSTALL NEW FD-2 IN PUMP PIT. CONNECT TO EXISTING SANITARY LINE.

2 NEW WORK FLOOR PLAN - MAINTENANCE BUILDING - PLUMBING

Scale: 1/4" = 1'-0"

#
#

COMMONWEALTH OF VIRGINIA
05/22/2026
THOMAS S. WARD IV
Lic. No. 058606
PROFESSIONAL ENGINEER

THIS DRAWING PREPARED AT THE CHARLOTTESVILLE OFFICE
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TEL 434.295.5624 FAX 434.295.8317 www.timmons.com

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TIMMONS GROUP

REVISION DESCRIPTION	DATE

DATE 05/22/2026
DRAWN BY CMP
DESIGNED BY CMP
CHECKED BY JDW
SCALE 1/4" = 1'-0"

MILLER PARK POOL
THE CITY OF LYNCHBURG

JOB NO. 57972.002
SHEET NO. P102

#

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Salas O'Brien
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Project No: 2550-01750

Roanoke
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Roanoke, Virginia 24011

DOMINION SEVEN d7 architects
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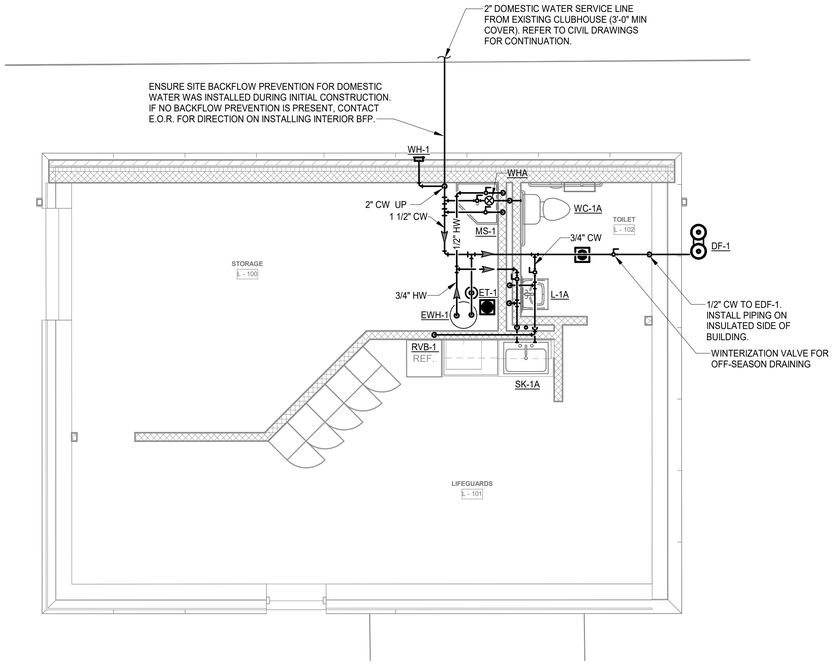
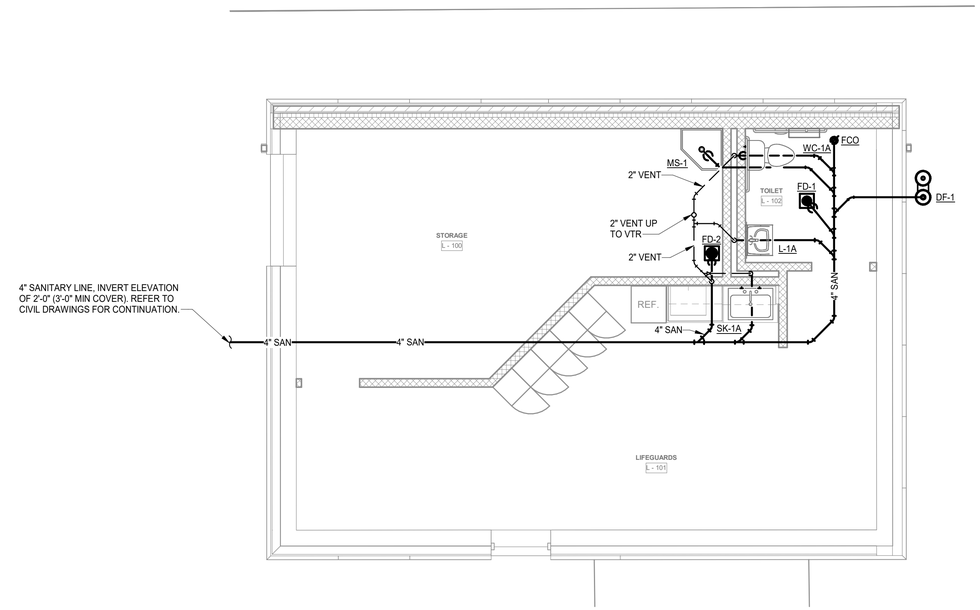


1 NEW WORK FLOOR PLAN - LIFEGUARD BUILDING - SUPPLY
Scale: 1/4" = 1'-0"



2 NEW WORK FLOOR PLAN - LIFEGUARD BUILDING - WASTE & VENT
Scale: 1/4" = 1'-0"

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MILLER PARK POOL
THE CITY OF LYNCHBURG

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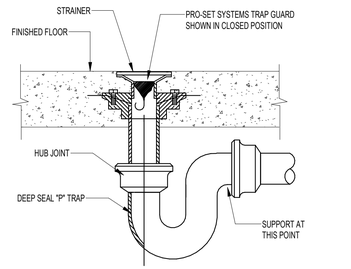
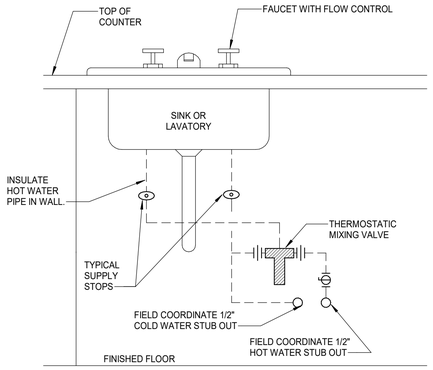
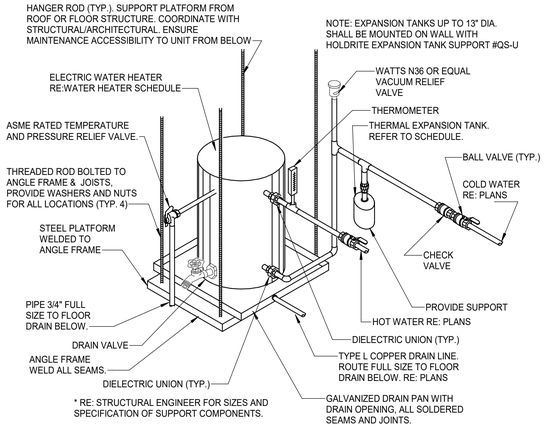


NOTES:
1. TRAP GUARD SHALL COMPLY WITH ASSE 1072 REQUIREMENTS.
2. TRAP GUARD SHALL BE FACTORY FITTED TO MATCH EACH FLOOR DRAIN BY SIZE, MODEL, AND MANUFACTURER.
3. CONTACT LOCAL REP OR MANUFACTURER FOR CORRECT MODEL NUMBER.
4. INSTALLATION OF TRAP GUARD TO BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
5. INSERT TRAP GUARD ONLY AFTER FINAL RODDING OF DRAINS. INSTALL TRAP GUARD WITH CLEAR SILICONE CAULK FOR GAS TIGHT SEAL. FOR DRAIN RODDING AFTER INSTALLATION, INSERT SEWER TAPE THROUGH LIGHTLY GREASED 1-1/2" PVC PIPE TO PROTECT TRAP GUARD.

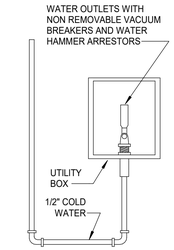
1 FLOOR DRAIN W/ TRAP SEAL PROTECTION
Scale: NONE



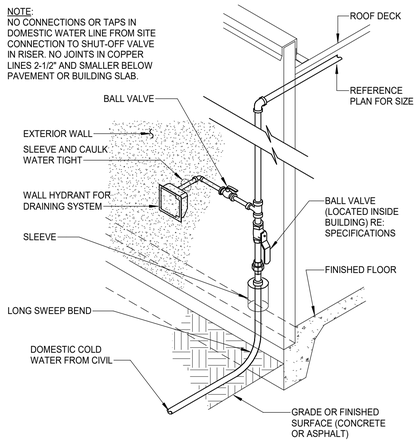
2 THERMOSTATIC MIXING VALVE AT LAVATORY
Scale: NONE



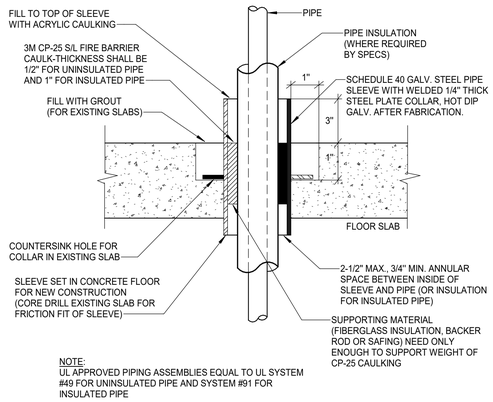
3 ELECTRIC WATER HEATER PIPING
Scale: NONE



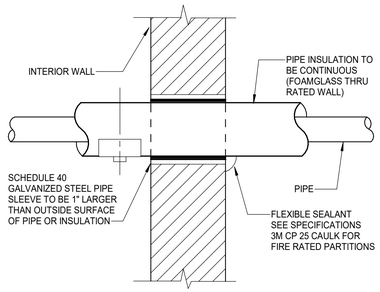
4 UTILITY BOX
Scale: NONE



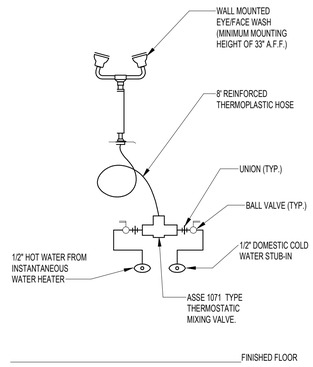
5 DOMESTIC WATER ENTRY
Scale: NONE



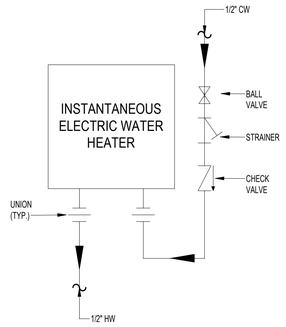
6 INTERIOR FLOOR PENETRATION
Scale: NONE



7 INTERIOR WALL PENETRATION
Scale: NONE



8 EYE/FACE WASH WITH THERMOSTATIC MIXING VALVE
Scale: NONE



9 INSTANTANEOUS ELECTRIC WATER HEATER
Scale: NONE

#
#

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SCALE	N/A
JOB NO.	57972.002
SHEET NO.	P501

TIMMONS GROUP

MILLER PARK POOL
THE CITY OF LYNCHBURG

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PLUMBING FIXTURE CONNECTION SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	CONNECTION SIZE CW (IN)	HW (IN)	SS (IN)	V (IN)	REMARKS
EEW	EMERGENCY EYE/FACE WASH	BRADLEY	S19-222	1/2	1/2	--	--	DESCRIPTION: DUAL PURPOSE STATIONARY OR REMOVABLE EYE/FACE WASH SUPPLIES: CHROME-PLATED BRASS VALVE WITH EXTENDED HANDLE MIXING VALVE: THERMOSTATIC MIXING VALVE, 120 DEGREES IN, 85 DEGREES OUT, UNION CONNECTION, 10 PSI PRESSURE DIFFERENTIAL, 1.5 GPM MIN FLOW/ 10.5 GPM MAX FLOW. NAVIGATOR S19-2000 EFX8.
DF-1	DRINKING FOUNTAIN	ELKAY	LK4420	1/2	--	1 1/2	--	DESCRIPTION: OUTDOOR BI-LEVEL PEDESTAL NON-FILTERED NON-REFRIGERATED DRINKING FOUNTAIN. HEAVY DUTY VANDAL RESISTANT, LAMINAR FLOW, 300 SERIES STAINLESS STEEL.
CLEANOUTS (CO)								
FCO	FLOOR CLEANOUT	WADE	6000-153	--	--	4	--	DESCRIPTION: CAST IRON BODY WTH THREADED ADJUSTABLE HOUSING, ASSEMBLY WITH GASKET SEAL, ROUND SCORIATED TYPE 304 STAINLESS STEEL TOP WITH VANDAL-PROOF SCREWS.
DRAINAGE FIXTURE (FD, FS, HD, TD)								
FD-1	FLOOR DRAIN	WADE	1100-MR6	--	--	3	2	DESCRIPTION: FLOOR DRAIN, CAST IRON BODY WITH ANCHOR FLANGE, SEEPAGE OPENINGS, REVERSIBLE CLAMPING COLLAR, ADJUSTABLE 6" DIAMETER STAINLESS STEEL STRAINER WITH VANDAL PROOF SCREWS, AND BOTTOM OUTLET. TRAP SEAL: PROVIDE ASSE 1072 COMPLIANT, PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR DRAIN BY SIZE, MODEL, AND MANUFACTURER. NOTE: COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTURAL DRAWINGS / FLOOR CONSTRUCTION.
FD-2	FLOOR DRAIN	WADE	1100-ER7	--	--	4	2	DESCRIPTION: FLOOR DRAIN, CAST IRON BODY WITH ANCHOR FLANGE, SEEPAGE OPENINGS, CLAMPING COLLAR, DUCTILE IRON SLOTTED GRATEADJUSTABLE 7" DIAMETER STAINLESS STEEL STRAINER WITH EXTENDED RIM AND VANDAL PROOF SCREWS, INTEGRAL CLAMPING DEVICE, BOTTOM OUTLET. TRAP SEAL: PROVIDE ASSE 1072 COMPLIANT, PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR DRAIN BY SIZE, MODEL, AND MANUFACTURER. NOTE: COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTURAL DRAWINGS / FLOOR CONSTRUCTION.
FS-2	FLOOR SINK	WADE	9140	--	--	4	2	DESCRIPTION: A.R.C. COATED CAST IRON BODY 12" SQUARE FLOOR SINK WITH 8" DEEP SUMP, BOTTOM OUTLET, LOOSE SET CAST IRON SECONDARY STRAINER, CLAMPING DEVICE, AND HALF TOP GRATE. TRAP SEAL: PROVIDE ASSE 1072 COMPLIANT, PRO-SET SYSTEMS, INC. TRAP GUARD FACTORY FITTED TO MATCH EACH FLOOR SINK BY SIZE, MODEL, AND MANUFACTURER. NOTE: COORDINATE FINAL LOCATION AND INSTALLATION WITH ARCHITECTURAL DRAWINGS/ POOL CONTRACTOR DRAINGS/ FLOOR CONSTRUCTION.
HYDRANTS (HB, RH, WH)								
WH-1	WALL HYDRANT	WOODFORD	67	3/4	--	--	--	DESCRIPTION: RECESSED BOX TYPE, FREEZELESS WALL HYDRANT WITH 3/4" F.P.T. INLET, 3/4" MALE HOSE THREAD OUTLET AND SELF-DRAINING HIGH FLOW DOUBLE CHECK BACKFLOW PREVENTER. PERMANENT TYPE BRASS VALVE BODY WITH LOOSE TEE KEY. ROUGH-IN: INSTALL WITH OUTLET AT 18" A.F.F. OR AS DIRECTED BY ARCHITECT/OWNER.
MOP SINK (MS)								
MS-1	MOP SINK	FIAT	TSBCR1000	1/2	1/2	3	2	DESCRIPTION: ONE-PIECE, PRECAST TERRAZZO, 28"x28"x12" NEO-CORNER STYLE, 6" DROP FRONT, INTEGRAL STAINLESS STEEL DRAIN ASSEMBLY AND STRAINER PLATE. FAUCET: 8" WALL MOUNT, CHROME PLATED BRASS SPOUT WITH VACUUM BREAKER, PAIL HOOK AND GARDEN HOSE MALE OUTLET, COMPRESSION CARTRIDGES WITH SPRING CHECKS AND LEVER HANDLES, T&S BRASS B-0665-BSTR.
SHOWER (SH)								
SH-1	SHOWERHEAD	BRADLEY	SF-D1	1/2	1/2	2	--	DESCRIPTION: SHOWER, HEAVY CHROME-PLATED ABS CONSTRUCTION WITH BRASS BENT ARM, STAINESS STEEL WALL FLANGE AND ADJUSTABLE SPRAY PATTERN, 1.5 GPM FLOW RATE, BRADLEY SF-D1. BALANCING VALVE: DURABLE BRASS VALVE BODY AND CAP, CERAMIC CARTRIDGE, TAMPER RESISTANT BRASS LIMIT STOPS, ADA COMPLANT LEVER HANDLE,
SH-1A	SHOWER/HAND SHOWER	SYMMONS	ORIGINS S-9608-PLR-TRM-1. 5-X-CHKS,	1/2	1/2	2	2	DESCRIPTION: ACCESSIBLE SHOWER, TRIM WITH INTEGRAL DIVERTER CONTROL, TEMPTROL PRESSURE BALANCING SHOWER VALVE, ADA 36" GRAB BAR, FLEXIBLE METAL HOSE WITH VACUUM BREAKER FOR BACKFLOW PREVENTION, ADA SHOWER WAND, 1.5 GPM FLOW RATE.
SINK/LAVATORIES (L, SK)								
L-1	LAVATORY	AMERICAN STANDARD	355.027	1/2	1/2	2	2	DESCRIPTION: LAVATORY, WALL HUNG, VITREOUS CHINA, 15" X 10" X 6-1/2"D BOWL WITH REAR OVERFLOW, FAUCET HOLES ON 4" CENTERS. FAUCET: CHROME PLATED BRASS LAVATORY, SINGLE LEVER ON 4" CENTERS VANDAL RESISTANT. 0.5 GPM NON-AERATING LAMINAR FLOW, CHICAGO FAUCETS 420-E2805ABCP. STRAINER: 1-1/4" 17 GAUGE OFFSET WHEELCHAIR STRAINER, CHROME PLATED BRASS GRID DRAIN WITH ELBOW AND 17 GAUGE OFFSET TAILPIECE. MCGUIRE 155WC. P-TRAP: 1-1/4" 17 GAUGE CHROME PLATED HEAVY CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8872. SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK. TMV: THERMOSTATIC MIXING VALVE, ASSE 1070 COMPLIANT, 140 DEGREES IN, 110 DEGREES OUT, BRONZE FINISH, UNION CONNECTION, 5 PSI PRESSURE DIFFERENTIAL, 0.5 GPM MIN FLOW/ 4 GPM MAX FLOW. SYMMONS "MAXLINE" 7-225-CK-W. CARRIER: RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 4" SQUARE BASE ANCHORED TO CONCRETE WITH (4) 1/2" BOLTS, ADJUSTABLE SLEEVE, THREADED CONCEALED ARMS, ALIGNMENT BAR, LOCKING DEVICE, AND LEVELING SCREWS. WADE W520-M36. NOTE: REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.
L-1A	LAVATORY (A.D.A. COMPLIANT)	AMERICAN STANDARD	355.027	1/2	1/2	2	2	DESCRIPTION: LAVATORY, WALL HUNG, VITREOUS CHINA, 15" X 10" X 6-1/2"D BOWL WITH REAR OVERFLOW, FAUCET HOLES ON 4" CENTERS. FAUCET: CHROME PLATED BRASS LAVATORY, SINGLE LEVER ON 4" CENTERS VANDAL RESISTANT. 0.5 GPM NON-AERATING LAMINAR FLOW, CHICAGO FAUCETS 420-E2805ABCP. STRAINER: 1-1/4" 17 GAUGE OFFSET WHEELCHAIR STRAINER, CHROME PLATED BRASS GRID DRAIN WITH ELBOW AND 17 GAUGE OFFSET TAILPIECE. MCGUIRE 155WC. P-TRAP: 1-1/4" 17 GAUGE CHROME PLATED HEAVY CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8872. SUPPLIES: 1/2" I.P.S. X 3/8" O.D.CHROME PLATED LOOSE KEY STOP VALVE WITH ESCUTCHEON AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165LK. TMV: THERMOSTATIC MIXING VALVE, ASSE 1070 COMPLIANT, 140 DEGREES IN, 110 DEGREES OUT, BRONZE FINISH, UNION CONNECTION, 5 PSI PRESSURE DIFFERENTIAL, 0.5 GPM MIN FLOW/ 4 GPM MAX FLOW. SYMMONS "MAXLINE" 7-225-CK-W. CARRIER: RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 4" SQUARE BASE ANCHORED TO CONCRETE WITH (4) 1/2" BOLTS, ADJUSTABLE SLEEVE, THREADED CONCEALED ARMS, ALIGNMENT BAR, LOCKING DEVICE, AND LEVELING SCREWS. WADE W520-M36. NOTE: REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT REQUIREMENTS.
SK-1A	SINK (A.D.A. COMPLIANT)	ELKAY	LRAD 221955	1/2	1/2	2	2	DESCRIPTION: ADA SINK, COUNTER MOUNTED, SELF-RIMMING, 18 GAUGE TYPE 302 STAINLESS STEEL, 22" X 19.5" X 5.5" D, SINGLE COMPARTMENT WITH FAUCET DECK. SINGLE FAUCET HOLE. FAUCET: CHROME PLATED FAUCET, SINGLE LEVEL, SINGLE-HOLE DECK MOUNT, CERAMIC QUARTER-TURN CARTRIDGE, MAX FLOW 1.5 GPM. CHICAGO FAUCETS 430-ABCP. TMV: THERMOSTATIC MIXING VALVE, ASSE 1070 COMPLIANT, 140 DEGREES IN, 110 DEGREES OUT, BRONZE FINISH, UNION CONNECTION, 5 PSI PRESSURE DIFFERENTIAL, 0.5 GPM MIN FLOW/ 4 GPM MAX FLOW. SYMMONS "MAXLINE" 7-225-CK-W. STRAINER: HEAVY DUTY STEEL BASKET STRAINER WITH 1-1/2 TAILPIECE AND LOCK NUTS. MCGUIRE 151A. P-TRAP: 1-1/2" 17 GAUGE CHROME PLATED CAST BRASS TRAP WITH CLEANOUT AND EXTENSION TO WALL WITH ESCUTCHEON PLATE. MCGUIRE 8912. SUPPLIES: 1/2" I.P.S. X 3/8" O.D. WITH ESCUTCHEONS AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2165. NOTE: REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED HEIGHT.
URINAL (U)								
U-1	URINAL	AMERICAN STANDARD	6561.017	3/4	--	2	2	DESCRIPTION: URINAL, WALL HUNG, WHITE VITREOUS CHINA, 1.0 GALLON PER FLUSH SIPHON JET ACTION, INTEGRAL TRAP. FLUSH VALVE: 1.0 GALLON FLUSH CYCLE, EXPOSED, DIAPHRAGM TYPE, CHROME PLATED URINAL FLUSHOMETER, VACUUM BREAKER, SPUD COUPLING FOR 3/4" TOP SPUD. SLOAN ROYAL 186-0.5-H-573-CP CAP. CARRIER: RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2" BASE ANCHORED TO CONCRETE WITH (4) 1/2" BOLTS, ADJUSTABLE SLEEVE, UPPER AND LOWER BEARING PLATES WITH THREADED STUDS. MIFAB MC-32. NOTE: REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED HEIGHT.
U-1A	URINAL (A.D.A. COMPLAINT)	AMERICAN STANDARD	6561.017	3/4	--	2	2	DESCRIPTION: URINAL, ADA COMPLIANT, WALL HUNG, WHITE VITREOUS CHINA, 1.0 GALLON PER FLUSH SIPHON JET ACTION, INTEGRAL TRAP. FLUSH VALVE: 1.0 GALLON FLUSH CYCLE, EXPOSED, DIAPHRAGM TYPE, CHROME PLATED URINAL FLUSHOMETER, VACUUM BREAKER, SPUD COUPLING FOR 3/4" TOP SPUD. SLOAN ROYAL 186-0.5-H-573-CP CAP. CARRIER: RECTANGULAR STEEL TUBING UPRIGHTS WITH WELDED 3" X 4-1/2" BASE ANCHORED TO CONCRETE WITH (4) 1/2" BOLTS, ADJUSTABLE SLEEVE, UPPER AND LOWER BEARING PLATES WITH THREADED STUDS. MIFAB MC-32. NOTE: REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED HEIGHT.
VALVE BOXES								
RVB-1	RECESSED VALVE BOX	GUY GREY	MIB1HAAB	1/2	--	--	--	DESCRIPTION: RECESSED VALVE BOX, 7" X 7", 20 GAUGE COLD-ROLLED STEEL WITH WHITE POWDER COAT FINISH AND FACEPLATE, 1/4" TURN VALVE, 1/2" SWEAT CONNECTION, WATER HAMMER ARRESTOR. NOTE: COORDINATE ROUGH-IN LOCATION/HEIGHT, FINAL CONNECTION WITH EQUIPMENT BEING INSTALLED AND WITH ARCHITECT/CASEWORK DRAWINGS.
WATER CLOSET (WC)								
WC-1	WATER CLOSET	AMERICAN STANDARD	2234.001	1	--	4	2	DESCRIPTION: WATER CLOSET, FLOOR MOUNTED, 1.28 GALLON PER FLUSH SIPHON JET ACTION, VITREOUS CHINA, ELONGATED BOWL WITH 1-1/2" TOP SPUD INLET AND BOLT COVERS. FLUSH VALVE: 1.28 GALLON FLUSH CYCLE, EXPOSED, CHROME PLATED CLOSET FLUSHOMETER, VACUUM BREAKER, SPUD COUPLING FOR 1-1/2" TOP SPUD. SLOAN ROYAL 111. SEAT: ELONGATED OPEN FRONT WHITE PLASTIC SEAT WITH SELF-SUSTAINING CHECK HINGES. CHURCH 9500SSCT. SUPPLIES: 1/2" I.P.S. X 3/8" O.D. WITH ESCUTCHEONS AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2166LK. NOTE: INSTALL FLUSH VALVE ON OPEN SIDE OF FIXTURE. FOR ADA COMPLIANT FIXTURE, FLUSH VALVE CONTROLS MUST BE LOCATED ON THE OPEN SIDE OF THE FIXTURE. REFER TO ARCHITECTURAL DRAWINGS.
WC-1A	WATER CLOSET (A.D.A. COMPLIANT)	AMERICAN STANDARD	3461.001	1	--	4	2	DESCRIPTION: WATER CLOSET (A.D.A. COMPLIANT), FLOOR MOUNTED, 1.28 GALLON PER FLUSH SIPHON JET ACTION, VITREOUS CHINA, ELONGATED BOWL WITH 1-1/2" TOP SPUD INLET AND BOLT COVERS. FLUSH VALVE: 1.28 GALLON FLUSH CYCLE, EXPOSED, CHROME PLATED CLOSET FLUSHOMETER, VACUUM BREAKER, SPUD COUPLING FOR 1-1/2" TOP SPUD. SLOAN ROYAL 111. SEAT: ELONGATED OPEN FRONT WHITE PLASTIC SEAT WITH SELF-SUSTAINING CHECK HINGES. CHURCH 9500SSCT. SUPPLIES: 1/2" I.P.S. X 3/8" O.D. WITH ESCUTCHEONS AND 3/8" COMPRESSION CHROME PLATED FLEXIBLE RISERS. MCGUIRE 2166LK. NOTE: INSTALL FLUSH VALVE ON OPEN SIDE OF FIXTURE. FOR ADA COMPLIANT FIXTURE, FLUSH VALVE CONTROLS MUST BE LOCATED ON THE OPEN SIDE OF THE FIXTURE. COORDINATE INSTALLATION OF FLUSH VALVE WITH GRAB BAR FOR WATER CLOSETS. REFER TO ARCHITECTURAL DRAWINGS.
WC-2A	WATER CLOSET (A.D.A. COMPLIANT)	AMERICAN STANDARD	3351.101	1	--	4	2	DESCRIPTION: WATER CLOSET, WALL HUNG, 1.28 GALLON PER FLUSH SIPHON JET ACTION, VITREOUS CHINA, ELONGATED BOWL WITH 1-1/2" TOP SPUD INLET AND BOLT COVERS. SEAT: ELONGATED OPEN FRONT WHITE PLASTIC SEAT WITH SELF-SUSTAINING CHECK HINGES. CHURCH 9500SSCT. FLUSH VALVE: 1.28 GALLON FLUSH CYCLE, EXPOSED, CHROME PLATED CLOSET FLUSHOMETER, VACUUM BREAKER, SPUD COUPLING FOR 1-1/2" TOP SPUD. SLOAN ROYAL 111. CARRIER: MIFAB MC-10 HORIZONTAL OR MC-12,13 VERTICAL. NOTE: INSTALL FLUSH VALVE ON OPEN SIDE OF FIXTURE. FOR ADA COMPLIANT FIXTURE, FLUSH VALVE CONTROLS MUST BE LOCATED ON THE OPEN SIDE OF THE FIXTURE. REFER TO ARCHITECTURAL DRAWINGS FOR REQUIRED HEIGHT.

INSTANTANEOUS WATER HEATER SCHEDULE

MARK	BASIS OF DESIGN MANUFACTURER	MODEL	INCOMING WATER TEMP (°F)	TEMPERATURE RISE AT 0.5 GPM (°F)	OUTPUT WATER TEMP (°F)	POWER (KW)	ELECTRICAL CHAR. V	P	F
IWH-1	EEMAX	EMT-2.5	67	40	105	1.4	120	1	12

ELECTRIC WATER HEATER SCHEDULE

MARK	BASIS OF DESIGN MANUFACTURER	MODEL	STORAGE CAPACITY (GAL)	INCOMING WATER TEMP (°F)	RECOVERY PER 73°F RISE (GPH)	STORED WATER TEMP (°F)	KW	ELECTRICAL CHAR. V	P	F
EWH-1	A.O. SMITH	EJC-6	6	67	11.5	140	2	120	1	60

1. IF THE MAXIMUM FUSE SIZE OF THE EQUIPMENT PROVIDED EXCEEDS THE SPECIFIED AMOUNT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ADDITIONAL COSTS RELATED TO INCREASED FUSE SIZE / WIRE SIZE.

DOMESTIC HW EXPANSION TANK SCHEDULE

MARK	BASIS OF DESIGN MANUFACTURER	MODEL	DESCRIPTION	MAX WORK PRESSURE (PSI)	TANK VOLUME (GAL)	MAX. ACCEPT. (GAL)	DIAMETER (IN)
ET-1	WATTS	PLT-5	HOT WATER EXPANSION TANK	150	2.1	1.5	8

1. PROVIDE ASME POTABLE WATER EXPANSION TANK ON THE COLD WATER SUPPLY LINE, DOWNSTREAM OF THE CHECK VALVE.
2. PROVIDE HOUSEKEEPING PAD.
3. PROVIDE UNION CONNECTION.

MINIMUM PIPE INSULATION THICKNESS...

FLUID OPERATING TEMP. RANGE & USAGE (°F)	INSULATION CONDUCTIVITY CONDUCTIVITY	MEAN RATING TEMP. (°F)	NOMINAL PIPE OR TUBE SIZE (IN) < 1	1 TO <1-1/2	1-1/2 TO <4	4 TO <8	> 8
> 350	0.32 -0.34	250	4.5	5.0	5.0	5.0	5.0
251 - 350	0.29 - 0.32	200	3.0	4.0	4.5	4.5	4.5
201 - 250	0.27 - 0.30	150	2.5	2.5	2.5	3.0	3.0
141 - 200	0.25 - 0.29	125	1.5	1.5	2.0	2.0	2.0
105 - 140	0.21 - 0.28	100	1.0	1.0	1.5	1.5	1.5

1. THESE VALUES ARE TAKEN FROM ASHRAE 90.1 AND ARE PROVIDED FOR DESIGN REFERENCE. ANY DEVIATIONS REQUIRED BY LOCAL CODES, AUTHORITY HAVING JURISDICTION (AHJ), OR PROJECT-SPECIFIC REQUIREMENTS SHALL TAKE PRECEDENCE.
2. STORM PIPING INSULATION SHALL HAVE 1.0 INCH THICKNESS.
3. WASTE PIPING RECEIVING CONDENSATE SHALL HAVE 1.0 INCH THICKNESS.
4. DOMESTIC COLD WATER IN CONDITIONED SPACES SHALL HAVE 0.5 INCH THICKNESS.
5. DOMESTIC COLD WATER IN UNCONDITIONED SPACES SHALL HAVE 1.0 INCH THICKNESS.

HAMMER ARRESTOR SCHEDULE

SIZE (IN)	FIXTURE UNIT	REF. PDI STANDARD	MANUFACTURER
1/2	1-11	A	JOSAM 75000 OR EQUIVALENT ZURN, SMITH, WATTS
3/4	12-32	B	JOSAM 75000 OR EQUIVALENT ZURN, SMITH, WATTS
1	33-60	C	JOSAM 75000 OR EQUIVALENT ZURN, SMITH, WATTS
1-1/4	61-113	D	JOSAM 75000 OR EQUIVALENT ZURN, SMITH, WATTS
1-1/2	114-154	E	JOSAM 75000 OR EQUIVALENT ZURN, SMITH, WATTS
2	155-330	F	JOSAM 75000 OR EQUIVALENT ZURN, SMITH, WATTS

1. ARRESTOR SHALL BE BELLOWS TYPE ONLY. PISTON TYPE ARRESTORS ARE NOT AN ACCEPTED EQUAL.
2. ARRESTORS SHALL BE OF STAINLESS STEEL WITH MANUFACTURERS LIMITED LIFETIME WARRANTY. WARRANTY SHALL COVER THE LIFE OF THE INSTALLED PLUMBING SYSTEM.
3. PROVIDE A NORMALLY OPEN BALL VALVE AT CONNECTION TO THE DOMESTIC SUPPLY LINE.
4. THE ARRESTOR DOES NOT REQUIRE MAINTENANCE AND THE WARRANTY ELIMINATES THE NEED FOR ACCESS TO THE UNIT. LIMITED ACCESS TO THE UNIT IS ACCEPTABLE.

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REVISION DESCRIPTION

DATE

DATE 05/22/2026
DRAWN BY CMP
DESIGNED BY CMP
CHECKED BY JDW
SCALE N/A

TIMMONS GROUP

MILLER PARK POOL
THE CITY OF LYNCHBURG

JOB NO. 57972.002
SHEET NO. P601

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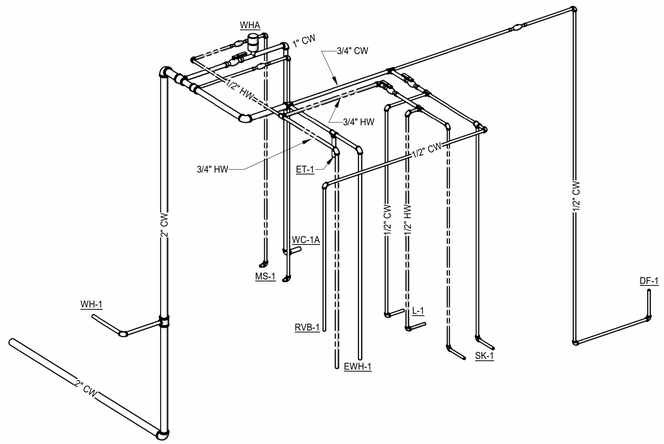
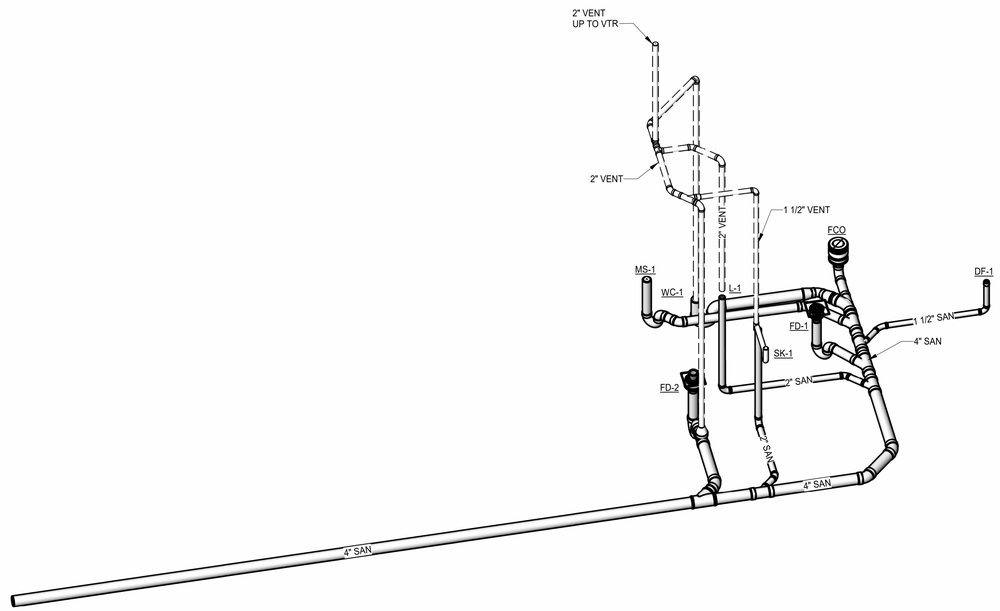


1 PLUMBING RISER - LIFEGUARD BUILDNG - SUPPLY

Scale: NONE



2 PLUMBING RISER - LIFEGUARD BUILDNG - WASTE

Scale: NONE

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TIMMONS GROUP

MILLER PARK POOL
THE CITY OF LYNCHBURG

JOB NO. 57972.002
SHEET NO. P901

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GRILLES, REGISTERS AND DIFFUSERS

MARK	DESCRIPTION	MOUNTING TYPE	FACE LENGTH	FACE WIDTH	NECK SIZE	MAX AIRFLOW (CFM)	MAX AIR P.D., IN. H2O	MAX N.C.	MANUFACTURER	MODEL	REMARKS
A	PLAQUE FACE DIFFUSER	SURFACE MOUNTED	24.0	24.0	6"ø	100	0.1	25	PRICE	ASPD	1,2,3
B	PLAQUE FACE DIFFUSER	SURFACE MOUNTED	24.0	24.0	8"ø	235	0.1	25	PRICE	ASPD	1,2,3
J	OUTDOOR AIR INLET	SURFACE MOUNTED	12.0	12.0	8"ø	170	---	---	BROAN	643FA	1,2,3
L	EXHAUST LOUVER	SURFACE MOUNTED	14.0	14.0	10/10	310	---	---	GREENHECK	EAC-401	4
M	LOUVER	SURFACE MOUNTED	18.0	18.0	18/18	310	---	---	GREENHECK	EAC-401	4, 5
N	LOUVER	SURFACE MOUNTED	18.0	18.0	18/18	310	---	---	GREENHECK	EAC-601	4, 5
O	LOUVER	SURFACE MOUNTED	40.0	24.0	40/24	1050	---	---	GREENHECK	EAD-401	4, 5
X	PERFORATED RETURN DIFFUSER	SURFACE MOUNTED	18.0	18.0	18/18	900	0.05	20	PRICE	630	1,2,3
Y	PERFORATED RETURN DIFFUSER	LAY-IN DIFFUSER	24.0	24.0	10/10	350	0.05	20	PRICE	PDDR	1,2,3
Z	PERFORATED RETURN DIFFUSER	LAY-IN DIFFUSER	24.0	24.0	6/6	100	0.05	20	PRICE	PDDR	1,2,3

GENERAL NOTES:
1. COORDINATE EXACT GRILLE AND DIFFUSER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS.
2. WHERE MULTIPLE WALL MOUNTED REGISTERS ARE INSTALLED IN A ROOM, THE REGISTERS SHALL BE ALIGNED ON THE CENTER POINT OF EACH REGISTER.
3. ALL CEILING DIFFUSERS SHALL BE 4-WAY THROW TYPE UNLESS NOTED OTHERWISE.

REMARKS:
1. DUCT MOUNTED BALANCING DAMPERS SHALL BE FURNISHED AND INSTALLED WHERE RUNOUT IS ABOVE AN ACCESSIBLE CEILING. IN LOCATIONS ABOVE HARD CEILINGS, DIFFUSERS SHALL BE FURNISHED WITH OPPOSED BLADE DAMPER OPERABLE THRU DIFFUSER FACE.
2. THE HARD DUCT TAP FITTING AND FLEXIBLE DUCT CONNECTION SHALL EQUAL THE DIAMETER OF DIFFUSER CONNECTION.
3. REGISTERS SHALL BE FURNISHED WITH OPPOSED BLADE DAMPER OPERABLE THRU REGISTER FACE.
4. COORDINATE FINAL COLOR SELECTION WITH OWNER & ARCHITECT PRIOR TO PURCHASING.
5. PROVIDE LOUVER WITH INTEGRAL MOTORIZED DAMPER.

FAN

MARK	AIRFLOW (CFM)	EXT. STATIC PRESSURE (IN. W.C.)	HORSE POWER (HP)	ELECTRICAL CONNECTION					FAN TYPE	MANUFACTURER	MODEL NUMBER	REMARKS
				V	PH	F	MCA	MOCP				
EF-1	310	0.50	0.25	120	1	60	7.25	15	INLINE	COOK	SQN-B	ALL
REF-1	1050	0.50	0.25	120	1	60	7.25	15	DOWNBLAST	COOK	ACE-B	ALL
REF-2	315	0.50	0.25	120	1	60	7.25	15	DOWNBLAST	COOK	ACE-B	ALL

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES AND DAMPERS. UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. PROVIDE WITH DISCONNECT.
2. PROVIDE WITH AUTOMATIC BACKDRAFT DAMPER.
3. PROVIDE FAN WITH AMCA 'B' SPARK RESISTANCE.
4. PROVIDE FAN WITH BELT DRIVE.

ELECTRIC UNIT HEATER

MARK	AIRFLOW (CFM)	KW	ELECTRICAL CONNECTION					MANUFACTURER	MODEL	REMARKS
			V	PH	F	MCA	MOCP			
EUH-1	175	3	208	1	60	14.40	20.00	MARKEL	HF3326TD-RP	ALL

REMARKS:
1. REFER TO FLOOR PLANS FOR UNIT QUANTITIES.
2. PROVIDE FACTORY INSTALLED THERMAL OVERLOAD PROTECTION, BUILT-IN THERMOSTAT AND DISCONNECT SWITCH.
3. PROVIDE ACCESSORIES NECESSARY FOR SURFACE MOUNTING UNIT ON FIRE RATED WALLS. ALL OTHER UNITS SHALL BE PROVIDED WITH THE NECESSARY ACCESSORIES TO BE RECESSED IN THE WALL.
4. UNITS SHALL BE MOUNTED 12" AFF UNLESS OTHERWISE NOTED.

AIR HANDLING UNIT

MARK	FAN				ELECTRICAL CONNECTION					COOLING				HEAT PUMP				HEATER KIT				MANUFACTURER	MODEL	REMARKS
	SUPPLY AIRFLOW (CFM)	OUTSIDE AIR CFM	EXT. STATIC PRESSURE (IN. W.C)	HORSE POWER	V	PH	F	MCA	MOCP	RATED CAPACITY (BTU/H)	AIR TEMPERATURE (°F) ENTERING DRY BULB	AIR TEMPERATURE (°F) ENTERING WET BULB	EER2 / SEER2	RATED CAPACITY (BTU/H)	AIR TEMPERATURE (°F) ENTERING DRY BULB	AIR TEMPERATURE (°F) LEAVING DRY BULB	HSPF2	ELECTRIC HEATER (KW)	HEATER MODEL	AIR TEMPERATURE (°F) ENTERING DRY BULB	AIR TEMPERATURE (°F) LEAVING DRY BULB			
AHU-1	1,160	115	0.50	0.75	208	1	60	6.5	15	28,400	76.7	63.6	10.0 /17.5	28,800	66.3	82.4	8.5	10	HKTSD10X1	66.6	88.1	DAIKIN	DFVE36CP1300	ALL

GENERAL NOTES:
1. EXTERNAL STATIC PRESSURE INCLUDES LOSSES DUE TO DUCTWORK, AIR DEVICES, DAMPERS, AND DUCT MOUNTED HOT WATER COILS WHERE APPLICABLE. DIRTY FILTER AND UNIT CASING MUST BE ADDED TO EXTERNAL STATIC PRESSURE TO OBTAIN TOTAL PRESSURE LOSS. INCREASE HORSEPOWER AS REQUIRED TO MEET YOUR TOTAL PRESSURE LOSS. COORDINATE WITH ELECTRICIAN.
2. MAINTAIN MINIMUM CLEARANCE FOR COIL PULL AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.
3. UNIT TO BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
4. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.
5. COOLING AND HEATING CAPACITY BASED ON AHRI CONDITIONS.
6. PROVIDE AIR HANDLER UNITS WITH CONDENSATE OVER FLOW SWITCH.

REMARKS:
1. SUPPLY FAN SHALL OPERATE CONTINUOUSLY DURING OCCUPIED MODE.
2. AHU MOTOR SHALL BE VARIABLE SPEED ECM TYPE.
3. PROVIDE AIR HANDLING UNITS WITH INTEGRAL ELECTRICAL DISCONNECTING MEANS.
4. PROVIDE AHU WITH BI-POLAR IONIZATION. INSTALL AND SIZE PER MANUFACTURER SPECIFICATIONS.
5. PROVIDE INSECT SCREENS ON ALL OUTDOOR AIR INLETS.

HEAT PUMP

MARK	RATED COOLING CAPACITY (BTU/H)	RATED HEATING CAPACITY (BTU/H)	MINIMUM EER2 / SEER2	HSPF2	ELECTRICAL CONNECTION					RELATED UNIT MARK	MANUFACTURER	MODEL	REMARKS
					V	PH	F	MCA	MOCP				
HP-1	28,400	28,800	10.0 / 17.5	8.5	208	1	60	22.4	25	AHU-1	DAIKIN	DH6VSA3010	ALL

GENERAL NOTES:
1. MINIMUM RECOMMENDED CLEARANCE AROUND ROOFTOP UNIT IS 12 INCHES ON NON-SERVICE SIDES AND 30 INCHES ON SERVICE SIDES. MAINTAIN MINIMUM CLEARANCE FOR CONDENSER AIR FLOW AS RECOMMENDED BY UNIT MANUFACTURER. MAINTAIN MINIMUM CLEARANCE AS REQUIRED TO OPEN ACCESS AND CONTROL DOORS ON UNIT FOR SERVICE, MAINTENANCE, AND INSPECTION. MAINTAIN MINIMUM ELECTRICAL CLEARANCE AS REQUIRED BY NEC.

REMARKS:
1. REFRIGERANT LINES TO BE SIZED PER MANUFACTURER'S REQUIREMENTS.
2. PROVIDE WITH LOW AMBIENT CONTROL DOWN TO 20°F.
3. PROVIDE WITH COIL GUARD.
4. PROVIDE UNITS WITH NAME PLATES TO REFERENCE CORRESPONDING AIR HANDLER UNIT.

SYMBOL LEGEND

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
GENERAL	
(#)	KEY NOTE TAG
#/#	REVISION TAG
	NEW EQUIPMENT
DUCTWORK	
	SUPPLY AIR DUCTWORK
	RETURN AIR AND OUTSIDE AIR DUCTWORK
	EXHAUST AIR DUCTWORK
	FLEXIBLE DUCTWORK
	SUPPLY AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	RETURN AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	EXHAUST AIR DUCTWORK THROUGH HORIZONTAL PARTITION
	MANUAL BALANCING DAMPER
SENSORS	
(T)	THERMOSTAT AND TEMPERATURE SENSOR
(H)	HUMIDISTAT
(P)	PRESSURE SENSOR
AIR DEVICES	
-	GRILLE SIZE TAG (REFER TO GRILLE SIZE LEGEND)
	SUPPLY AIR GRILLE WITH FOUR-WAY THROW
	RETURN AIR GRILLE
	EXHAUST AIR GRILLE
	SUPPLY AIR SIDEWALL GRILLE
	RETURN AIR SIDEWALL GRILLE
20X12	RETURN AIR OPENING ABOVE CEILING
PIPING	
HWS	HOT WATER FOR HYDRONIC HEATING SUPPLY
HWR	HOT WATER FOR HYDRONIC HEATING RETURN
	ELBOW UP
	ELBOW DOWN
	90° ELBOW
	45° ELBOW
	TEE
	FLANGE
	CAP
	CONTINUATION
RENOVATIONS	
	POINT OF CONNECTION FROM NEW TO EXISTING
	POINT OF DEMOLITION FROM EXISTING
	ITEM TO REMAIN
	ITEM TO BE REMOVED

SUBSCRIPTS AND ABBREVIATIONS	
AFF	ABOVE FINISHED FLOOR
ATM	ATMOSPHERE
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
DB	DRY BULB (TEMPERATURE)
DIA	DIAMETER
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
ESP	EXTERNAL STATIC PRESSURE
F	FAHRENHEIT
FC	FLEXIBLE CONNECTION
FD	FIRE DAMPER
FT	FEET
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
IN	INCHES
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
MCA	MINIMUM CIRCUIT AMPS
MD	MANUAL DAMPER
MOD	MOTORIZED OPERATED DAMPER
OA	OUTSIDE AIR
PD	PRESSURE DROP
PH	PHASE
RA	RETURN AIR
RH	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF-TOP UNIT
SA	SUPPLY AIR
SEN	SENSIBLE
FSD	COMBINATION FIRE / SMOKE DAMPER
TSTAT	THERMOSTAT
TU	TERMINAL UNIT
TYP	TYPICAL
V	VOLTS
VAV	VARIABLE AIR VOLUME
WB	WET BULB TEMPERATURE

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GENERAL NOTES:

1. INSTRUCT THE OWNER IN THE PROPER OPERATION AND MAINTENANCE OF THE MECHANICAL SYSTEMS UNTIL THE OWNER IS FULLY PREPARED TO OPERATE AND MAINTAIN THE MECHANICAL SYSTEM. HOWEVER, LENGTH OF INSTRUCTION TIME SHALL BE LIMITED TO ONE DAY.
2. EQUIPMENT, MATERIALS AND LABOR REQUIRED BY THESE CONTRACT DRAWINGS SHALL BE GUARANTEED TO BE FREE FROM DEFECTIVE MATERIALS OR WORKMANSHIP FOR ONE YEAR AFTER FINAL ACCEPTANCE OF THE PROJECT UNLESS SPECIFIED OTHERWISE. DEFECTIVE MATERIALS OR WORKMANSHIP OCCURRING DURING THIS PERIOD SHALL BE CORRECTED AT NO ADDITIONAL COST.
3. GENERAL CONTRACTOR TO VERIFY THE FINAL LOCATION OF ALL THERMOSTATS, TEMPERATURE SENSORS, PANELS AND CONTROL INSTRUMENTS WITH THE ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
4. GENERAL CONTRACTOR TO VERIFY WALL OPENINGS WITH STRUCTURE, LOCATIONS OF NEW AND EXISTING EQUIPMENT AND ROUTE OF DUCTWORK WITH EXISTING CONDITIONS PRIOR TO ROUGH-IN.
5. REFER TO ARCHITECTURAL, STRUCTURAL AND ELECTRICAL DRAWINGS TO COORDINATE THE EXACT LOCATIONS OF DIFFUSERS, REGISTERS, GRILLES, PIPING AND OTHER MECHANICAL EQUIPMENT WITH CEILING GRID, LIGHTS, BEAMS AND OTHER BUILDING COMPONENTS.
6. CEILING GRID AND OTHER ITEMS SHALL NOT BE SUPPORTED FROM OR IN CONTACT WITH MECHANICAL EQUIPMENT. CONDUIT, WIRING, PIPING AND SUPPORTS SHALL NOT BE LOCATED IN FRONT OF FAN COIL ACCESS PANELS.
7. DUCTWORK AND PIPING SHALL NOT BE INSTALLED ABOVE ELECTRICAL PANELS. COORDINATE INSTALLATION OF DUCTWORK AND PIPING WITH ELECTRICAL PANELS WHEN SHOWN NEAR PANELS OR OVER ELECTRICAL ROOMS.
8. MATERIAL AND INSTALLATION SHALL COMPLY WITH LOCAL CODES, APPLICABLE PROVISIONS OF LATEST EDITION OF NATIONAL FIRE PROTECTION ASSOCIATION, LOCAL UTILITY REGULATIONS AND GOVERNMENTAL DEPARTMENTS HAVING JURISDICTION.
9. MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL SUPPORTS REQUIRED TO MOUNT MECHANICAL EQUIPMENT, PIPING AND DUCTWORK. EQUIPMENT SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
10. ALL DUCTWORK TRANSITIONS AND PIPING INCREASERS/REDUCERS SHALL BE PROVIDED AS REQUIRED FOR EQUIPMENT CONNECTIONS. SEE MANUFACTURERS DATA FOR ACTUAL DUCTWORK AND PIPING CONNECTION SIZES AND LOCATIONS.
11. PROVIDE AIR DEFLECTORS IN ALL SUPPLY AIR DUCTWORK SQUARE ELBOWS.
12. DUCTWORK AND PIPING LAYOUTS ARE FOR DIAGRAMMATICAL PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEASURING AND COORDINATING ALL DUCTWORK AND PIPING PRIOR TO INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY AND ALL OFFSETS AS REQUIRED TO MEET THE INTENT OF THE DESIGN DOCUMENTS AT NO ADDITIONAL COST TO THE OWNER.
13. THE GENERAL CONTRACTOR SHALL SEAL AND FLASH ALL WALL, ROOF, AND FLOOR PENETRATIONS AIRTIGHT AND WATERTIGHT AT EACH PIPE, DUCTWORK, AND CONDUIT PENETRATION. PROVIDE AIRTIGHT SEAL BETWEEN AT ALL FIRE PARTITION AND OR WALL PENETRATIONS WITH UL APPROVED FIRE-RESISTANT MATERIAL MATCHING OR EXCEEDING THE PENETRATED FIRE PARTITION AND OR WALLS RATING.
14. ALL CUTTING AND PATCHING FOR THE INSTALLATION OF NEW WORK IN EXISTING BUILDING SHALL BE DONE BY THE GENERAL CONTRACTOR.
15. PROVIDE FLEXIBLE DUCT CONNECTIONS BETWEEN THE SUPPLY AND RETURN DUCTS FROM ALL AIR UNITS AND AT BUILDING EXPANSION JOINTS. FLEXIBLE CONNECTIONS SHALL BE WEATHERTIGHT WHEN EXPOSED.

BASIS OF DESIGN

THE MANUFACTURER AND MODEL NUMBER LISTED IN THE DRAWINGS OR SPECIFICATIONS ARE THE BASIS OF DESIGN. WHEN PROVIDING EQUIPMENT THAT IS NOT THE BASIS OF DESIGN, THE CONTRACTOR SHALL PROVIDE AN ITEMIZED LIST OF ALL DEVIATIONS FROM THE INFORMATION DETAILED IN BOTH THE SPECIFICATION SECTION AND SCHEDULE. ADDITIONALLY, THE EQUIPMENT MUST MEET THE PHYSICAL CONSTRAINTS OF ROOM INCLUDING COORDINATION WITH OTHER TRADES AND ALL EQUIPMENT CLEARANCES, INCLUDING OTHER TRADES. FINALLY, THE CONTRACTOR SHALL PROVIDE AT THE CONTRACTOR'S COST ANY SCOPE INCREASE AND DEDUCTIONS BASED ON THE NON-BASIS OF DESIGN EQUIPMENT FOR THE FOLLOWING MINIMUM ITEMS:

- ELECTRICAL MODIFICATIONS, INCLUDING WIRING, CONDUIT, DISCONNECTS, OVERCURRENT PROTECTION, PANELS, ETC.
- STRUCTURAL MODIFICATIONS.
- CIVIL MODIFICATIONS.
- PLUMBING MODIFICATIONS.
- DUCT AND PIPE CONNECTIONS OR ARRANGEMENTS.
- SPACE HEATING AND COOLING REQUIREMENTS.
- EXHAUST OR VENTILATION MODIFICATIONS.
- VIBRATION ISOLATION REQUIREMENTS.
- **CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE EQUIPMENT MANUFACTURER FOR ANY CHANGES TO THE REFRIGERANTS REQUIRED PER NEW EPA GUIDELINES. CONTRACTOR SHALL COORDINATE WITH OTHER DISCIPLINES FOR CHANGES IN EQUIPMENT SIZE OR ELECTRICAL REQUIREMENTS.**

HVAC EQUIPMENT SIZES ARE BASED UPON ASHRAE 2021 WEATHER DATA AS LISTED BELOW.
HEATING AND COOLING DESIGN CONDITION LOCATION: ***LYNCHBURG, VA***
SUMMER:
- OUTDOOR CONDITIONS: ***91.7°F DB, 73.5 WB***
- INDOOR SETPOINTS: ***75°F DB 50% RH***

WINTER:
- OUTDOOR CONDITIONS: ***14.7°F DB***
- INDOOR SETPOINTS: ***72°F DB 35% RH***

#
#

COMMONWEALTH OF VIRGINIA
05/22/2026
SAMUEL S. LOTT
Lic. No. 061900
PROFESSIONAL ENGINEER

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YOUR VISION ACHIEVED THROUGH OURS.

#	REVISION DESCRIPTION	DATE

DATE 05/22/2026
DRAWN BY WKS
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CHECKED BY SSL
SCALE N/A

TIMMONS GROUP

MILLER PARK POOL
THE CITY OF LYNCHBURG

JOB NO. 57972.002
SHEET NO. M001

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P:\2025.31 Miller Park Pool Renovations\revit\support\Titleblocks\57972.002-310-B02436-LA.dwg | Plotted on ---- | by Jacob Caldwell

MECHANICAL SPECIFICATIONS

GENERAL

1. PERFORM WORK IN ACCORDANCE WITH APPLICABLE STATUTES, ORDINANCES, CODES AND REGULATIONS OF GOVERNMENTAL AUTHORITIES HAVING JURISDICTION.
2. OBTAIN ALL PERMITS REQUIRED.
3. CONTRACT DRAWINGS ARE DIAGRAMMATIC ONLY AND DO NOT GIVE FULLY DIMENSIONED LOCATIONS OF VARIOUS ELEMENTS OF WORK. DETERMINE EXACT LOCATIONS FROM FIELD MEASUREMENTS.
4. GUARANTEE WORK FOR 1 YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION OF HE PROJECT. DURING THAT PERIOD MAKE GOOD ANY FAULTS OR IMPERFECTIONS THAT MAY ARISE DUE TO DEFECTS OR OMISSIONS IN MATERIAL, EQUIPMENT OR WORKMANSHIP. AT THE OWNER'S OPTION, REPLACEMENT OF FAILED PARTS OR EQUIPMENT SHALL BE PROVIDED.
5. IMMEDIATELY PRIOR TO SUBSTANTIAL COMPLETION OF THE PROJECT, REPLACE AIR FILTERS.
6. PROVIDE EQUIPMENT HOUSEKEEPING PADS UNDER ALL FLOOR MOUNTED AND GROUND MOUNTED HVAC EQUIPMENT, AND AS SHOWN ON THE DRAWINGS. CONCRETE PADS ARE TO BE 4" THICK UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
7. PROVIDE NAMEPLATES WITH 1/2" HIGH LETTERS AND FASTENED WITH EPOXY OR SCREWS.
8. MAINTAIN QUALITY CONTROL OVER SUPERVISION, SUBCONTRACTORS, SUPPLIERS, MANUFACTURERS, PRODUCTS, SERVICES, SITE CONDITIONS AND WORKMANSHIP TO PRODUCE WORK IN ACCORDANCE WITH CONTRACT DOCUMENTS.
9. COMPLY WITH INDUSTRY STANDARDS EXCEPT WHEN MORE RESTRICTIVE TOLERANCES OR SPECIFIED REQUIREMENTS INDICATE MORE RIGID STANDARDS OR MORE PRECISE WORKMANSHIP.
10. PERFORM WORK BY PERSONS QUALIFIED TO PRODUCE WORKMANSHIP OF SPECIFIED QUALITY.
11. SECURE PRODUCTS IN PLACE WITH POSITIVE ANCHORAGE DEVICES DESIGNED AND SIZED TO WITHSTAND STRESSES, VIBRATION, AND RACKING. UNDER NO CONDITIONS SHALL MATERIAL OR EQUIPMENT BE SUSPENDED FROM STRUCTURAL BRIDGING.
12. PROVIDE FINISHES TO MATCH APPROVED SAMPLES. ALL EXPOSED FINISHES SHALL BE APPROVED BY THE ARCHITECT. SUBMIT COLOR SAMPLES AS REQUIRED.
13. COMPLY WITH INSTRUCTIONS IN FULL DETAIL, INCLUDING EACH STEP IN SEQUENCE. SHOULD INSTRUCTION CONFLICT WITH CONTRACT DOCUMENTS, REQUEST CLARIFICATION FROM ARCHITECT / ENGINEER BEFORE PROCEEDING.

TESTING, BALANCING AND ADJUSTING

1. SECTION INCLUDES BALANCE, ADJUST AND TEST THE AIR DISTRIBUTION SYSTEM INCLUDING THE EXHAUST SYSTEM. BALANCE, ADJUST AND TEST RELATED HYDRONIC SYSTEM.
2. TAB TOLERANCES THE WATER, OUTSIDE AIR, SUPPLY AIR, RETURN AIR, AND EXHAUST AIR FOR EACH SYSTEM SHALL BE ADJUSTED TO WITHIN +/- 10% OF THE VALUE SCHEDULED ON THE DRAWINGS.
3. TESTING THE SYSTEM THE TAB AGENCY SHALL VERIFY THAT ALL DUCTWORK, DAMPERS, GRILLES, REGISTERS, AND DIFFUSERS HAVE BEEN INSTALLED PER DESIGN.

   1. SUPPLY FANS:
      A. FAN SPEEDS: TEST AND ADJUST FAN RPM TO ACHIEVE DESIGN CFM REQUIREMENTS.
      B. CURRENT AND VOLTAGE: TEST AND RECORD MOTOR VOLTAGE AND AMPERAGE AND COMPARE DATA WITH THE NAMEPLATE LIMITS TO ENSURE FAN MOTOR IS NOT IN OR ABOVE THE SERVICE FACTOR.
      C. PITOT-TUBE TRAVERSE: PERFORM A PITOT-TUBE TRAVERSE OF THE MAIN SUPPLY AND RETURN DUCTS, AS APPLICABLE, TO OBTAIN TOTAL CFM. MEASUREMENTS MUST BE RECORDED WITH AN INCLINED MANOMETER OR AN INCLINED/VERTICAL MANOMETER.
      D. OUTSIDE AIR: TEST AND ADJUST THE OUTSIDE AIR ON APPLICABLE EQUIPMENT USING A PITOT-TUBE TRAVERSE.
      E. STATIC PRESSURE: TEST AND RECORD SYSTEM STATIC PRESSURE, INCLUDING THE STATIC PRESSURE PROFILE OF EACH SUPPLY FAN.

   2. ALL OTHER FANS:
      A. FAN SPEEDS: TEST AND ADJUST FAN RPM TO ACHIEVE DESIGN CFM REQUIREMENTS
      B. CURRENT AND VOLTAGE: TEST AND RECORD MOTOR VOLTAGE AND AMPERAGE AND COMPARE DATA WITH THE NAMEPLATE LIMITS TO ENSURE FAN MOTOR IS NOT IN OR ABOVE THE SERVICE FACTOR.
      C. PITOT-TUBE TRAVERSE: PERFORM A PITOT-TUBE TRAVERSE OF THE MAIN RETURN DUCTS, AS APPLICABLE, TO OBTAIN TOTAL CFM. MEASUREMENTS MUST BE RECORDED WITH AN INCLINED MANOMETER OR AN INCLINED/VERTICAL MANOMETER.
      D. STATIC PRESSURE: TEST AND RECORD SYSTEM STATIC PRESSURE, INCLUDING THE STATIC PRESSURE PROFILE OF EACH RETURN FAN.

   3. COILS (INCLUDING ELECTRIC COILS):
      A. AIR TEMPERATURE: ONCE AIR FLOWS ARE SET TO ACCEPTABLE LIMITS, TAKE WET BULB (COOLING COIL ONLY) AND DRY BULB AIR TEMPERATURES ON THE ENTERING AND LEAVING SIDE OF EACH COIL. CALCULATE THE SENSIBLE AND LATENT (COOLING COIL ONLY) CAPACITY OF THE COIL.

   5. REVIEW THE RETURN AIR PATH FOR EACH AREA SERVED BY AIR HANDLING UNITS TO ENSURE A CORRECT OPERATING SYSTEM.

4. EQUIPMENT POWER READINGS (RECORD THE FOLLOWING INFORMATION FOR EACH MOTOR)
   1. EQUIPMENT DESIGNATION.
   2. MANUFACTURER.
   3. UNIT MODEL NUMBER AND SERIAL NUMBER AND FRAME.
   4. MOTOR NAMEPLATE HORSEPOWER; NAMEPLATE VOLTAGE; PHASE AND FULL LOAD AMPERES.
   5. HEATER COIL IN STARTER.
      A. RATING IN AMPERES.
      B. MANUFACTURER'S RECOMMENDATION.
   6. MOTOR RPM/DRIVEN EQUIPMENT RPM.
   7. POWER READING (VOLTAGE, AMPERES OF ALL LEGS AT MOTOR TERMINALS).

5. DIRECT EXPANSION EQUIPMENT (WITH EACH UNIT OPERATING AT NEAR DESIGN CONDITIONS, MEASURE AND RECORD THE FOLLOWING)
   1. MANUFACTURER, MODEL NUMBER, SERIAL NUMBER AND ALL NAMEPLATE DATA.
   2. AMBIENT TEMPERATURE, CONDENSER DISCHARGE TEMPERATURE.
   3. AMPERAGE AND VOLTAGE FOR EACH PHASE.
   4. LEAVING AND ENTERING AIR TEMPERATURES.
   5. SUCTION AND DISCHARGE PRESSURES AND TEMPERATURES.
   6. TONS OF COOLING.

6. TAB REPORT
   1. THE ACTIVITIES DESCRIBED IN THIS SPECIFICATION SHALL BE RECORDED IN A REPORT FORM. NEATLY TYPE AND ARRANGE DATA. INCLUDE WITH THE DATA THE DATE TESTED, PERSONNEL PRESENT, WEATHER CONDITIONS, NAMEPLATE RECORD OF THE TEST INSTRUMENTS USED AND LIST ALL MEASUREMENTS TAKEN AFTER ALL CORRECTIONS ARE MADE TO THE SYSTEM. PROVIDE A "PREFACE" WHICH SHALL INCLUDE A GENERAL DISCUSSION OF THE SYSTEM AND ANY ABNORMALITIES OR PROBLEMS ENCOUNTERED. SUBMIT PDF ELECTRONIC COPY TO THE ARCHITECT AND ENGINEER.
   2. ALL MEASUREMENTS AND RECORDED READINGS (OF AIR, WATER, ELECTRICITY, ETC.) THAT APPEAR IN THE REPORT MUST HAVE BEEN RECORDED ON SITE BY THE PERMANENTLY EMPLOYED TECHNICIANS OR ENGINEERS OF THE TAB FIRM.
   3. SUBMIT REPORTS ON FORMS APPROVED BY THE ENGINEER THAT WILL INCLUDE THE FOLLOWING DATA AS A MINIMUM: TITLE PAGE: COMPANY NAME, COMPANY ADDRESS, COMPANY TELEPHONE NUMBER, PROJECT NAME, PROJECT LOCATION, PROJECT MANAGER, PROJECT ENGINEER, PROJECT CONTRACTOR, SUMMARY OF THE TAB REPORT DATA, INDEX
   4. FAN DATA: LOCATION, MANUFACTURER, MODEL, AIR FLOW, SPECIFIED AND ACTUAL, TOTAL STATIC PRESSURE (TOTAL EXTERNAL) SPECIFIED AND ACTUAL, INLET PRESSURE, DISCHARGE PRESSURE, FAN RPM
   5. RETURN AIR/OUTSIDE AIR DATA: IDENTIFICATION/LOCATION, DESIGN RETURN AIRFLOW, ACTUAL RETURN AIRFLOW, DESIGN OUTSIDE AIRFLOW, ACTUAL OUTSIDE AIR FLOW, RETURN AIR TEMPERATURE, OUTSIDE AIR TEMPERATURE, REQUIRED MIXED AIR TEMPERATURE, ACTUAL MIXED AIR TEMPERATURE
   6. ELECTRIC MOTORS: MANUFACTURER, HP/BHP, PHASE, VOLTAGE, AMPERAGE, NAMEPLATE, ACTUAL, RPM, SERVICE FACTOR, STARTER SIZE, HEATER ELEMENTS, RATING.
   7. V-BELT DRIVE: IDENTIFICATION/LOCATION, REQUIRED DRIVEN RPM, DRIVE SHEAVE, DIAMETER AND RPM, BELT, SIZE AND QUANTITY, MOTOR SHEAVE, DIAMETER AND RPM, CENTER-TO-CENTER DISTANCE, MAXIMUM, MINIMUM AND ACTUAL
   8. DUCT TRAVERSE: SYSTEM ZONE/BRANCH, DUCT SIZE, AREA, DESIGN VELOCITY, DESIGN AIRFLOW, TEST VELOCITY, TEST AIRFLOW, DUCT STATIC PRESSURE, AIR CORRECTION FACTOR.
   9. COIL DATA: IDENTIFICATION/NUMBER, LOCATION, SERVICE, MANUFACTURER, ENTERING AIR DB TEMPERATURE, DESIGN AND ACTUAL, LEAVING AIR DB TEMPERATURE, DESIGN AND ACTUAL, WATER PRESSURE FLOW, DESIGN AND ACTUAL, WATER PRESSURE DROP, DESIGN AND ACTUAL, ENTERING WATER TEMPERATURE, DESIGN AND ACTUAL, J. LEAVING WATER TEMPERATURE, DESIGN AND ACTUAL, AIR PRESSURE DROP, DESIGN AND ACTUAL, CAPACITY
   10. ELECTRIC COIL DATA: IDENTIFICATION NUMBER, LOCATION, SERVICE, MANUFACTURER, ELECTRICAL CHARACTERISTICS, CAPACITY, ENTERING AIR DB TEMPERATURE (DESIGN AND ACTUAL), AND LEAVING AIR DB TEMPERATURE (DESIGN AND ACTUAL).

EARTHWORK

1. EXCAVATE AND BACKFILL FOR PIPE TRENCHES FOR UNDERGROUND PIPING, AND EXCAVATE FOR STRUCTURES INSTALLED AS PART OF MECHANICAL WORK.
2. REMOVE EXCESS EXCAVATION MATERIAL OR MATERIAL UNSUITABLE FOR BACKFILL. EXCESS MATERIAL CAN BE SPREAD ON GRADE, OR SHALL BE REMOVED FROM SITE AS DIRECTED BY THE OWNER/ARCHITECT.

MECHANICAL ALTERATIONS

1. INSPECT AND SERVICE EXISTING EQUIPMENT AND MATERIALS THAT ARE TO REMAIN OR TO BE REUSED.
2. DISPOSAL OF EQUIPMENT, MATERIALS, OR HOUSEKEEPING PADS TO BE ABANDONED. PRIOR TO DISPOSAL, THE CONTRACTOR SHALL VERIFY WITH THE OWNER WHAT IS TO BE SALVAGED BY THE OWNER AND WHAT IS TO BECOME THE PROPERTY OF THE CONTRACTOR.
3. HANDLING OF EQUIPMENT AND MATERIALS TO BE REMOVED.
4. INSPECTION: EXISTING MATERIALS AND EQUIPMENT INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS TO BE REUSED SHALL BE INSPECTED FOR DAMAGED OR MISSING PARTS. CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER, IN WRITING, ACCORDINGLY. IF USING MATERIALS SPECIFIED OR SHOWN ON THE DRAWING VOIDS OR DIMINISHES THE WARRANTY OR OPERATION OF REMAINING EQUIPMENT OR SYSTEMS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER, IN WRITING. DEMOLITION DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION, AND WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING EXISTING INSTALLATION, AND IMMEDIATELY AFTER SUCH DISCREPANCIES ARE DISCOVERED.
5. APPLICATION: EXISTING MATERIALS AND EQUIPMENT INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS TO BE REUSED SHALL BE CLEANED AND RECONDITIONED, INCLUDING CLEANING OF PIPING SYSTEMS AND HVAC COILS PRIOR TO INSTALLATION AND REUSE. MATERIAL AND EQUIPMENT REMOVED THAT IS NOT TO BE SALVAGED FOR OWNER'S USE OR FOR REUSE ON THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE REMOVED FROM THE SITE. MATERIAL OR EQUIPMENT SALVAGED FOR OWNER'S USE SHALL BE CAREFULLY HANDLED AND STORED WHERE DIRECTED BY THE OWNER OR THE ARCHITECT/ENGINEER. RELOCATE MATERIAL AND / OR EQUIPMENT AS DIRECTED BY OWNER. MATERIALS AND EQUIPMENT NOT INDICATED TO BE REMOVED OR ABANDONED SHALL BE RECONNECTED TO THE NEW SYSTEM. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL WALK AREAS TO BE RENOVATED WITH OWNER TO IDENTIFY AND DOCUMENT ITEMS TO BE SALVAGED FOR OWNER'S USE.
6. SEQUENCE AND SCHEDULE: COORDINATE UTILITY SERVICE OUTAGES WITH UTILITY COMPANY, ARCHITECT AND OWNER. REMOVE CONCRETE HOUSEKEEPING PAD WHERE MATERIALS OR EQUIPMENT HAVE BEEN REMOVED.

DUCTWORK

1. DUCT MATERIAL AND CONSTRUCTION: USE LOCK FORMING QUALITY PRIME GALVANIZED STEEL SHEETS OR COILS UP TO 60" WIDE. STENCIL EACH SHEET WITH GAUGE AND MANUFACTURER'S NAME. STENCIL COILS OF SHEET STEEL THROUGHOUT ON 10' CENTERS WITH GAUGE AND MANUFACTURER'S NAME. PROVIDE CERTIFICATION OF DUCT GAUGE AND MANUFACTURER FOR EACH SIZE DUCT.
2. RECTANGULAR LOW PRESSURE DUCT CONSTRUCTED OF SHEET METAL IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
3. LOW PRESSURE ROUND DUCTS SHALL BE SHOP FABRICATED WITH SNAP LOCK LONGITUDINAL SEAMS. DUCTS SHALL BE CONSTRUCTED FOR A MINIMUM OF 2" W.G. STATIC PRESSURE. MEDIUM PRESSURE ROUND DUCTWORK SHALL BE WELDED SPIRAL SEAM SUCH AS MANUFACTURED BY UNITED SHEET METAL COMPANY.
4. DUCT MATERIAL AND CONSTRUCTION – ALUMINUM: USE LOCK FORMING QUALITY ALUMINUM SHEETS OR COILS UP TO 60" WIDE. PROVIDE ALUMINUM SHEET MATERIAL CONFORMING TO ASTM B209, ALLOY 3003, H14 TEMPER, UNLESS NOTED OTHERWISE. STENCIL EACH SHEET WITH GAUGE AND MANUFACTURER'S NAME. STENCIL COILS OF ALUMINUM SHEET THROUGHOUT ON 10' CENTERS WITH GAUGE AND MANUFACTURER'S NAME. PROVIDE CERTIFICATION OF DUCT GAUGE AND MANUFACTURER FOR EACH SIZE DUCT.
5. DUCT MATERIAL AND CONSTRUCTION – STAINLESS STEEL: USE LOCK FORMING QUALITY STAINLESS STEEL SHEETS OR COILS UP TO 60" WIDE. PROVIDE STAINLESS STEEL SHEET MATERIAL CONFORMING TO ASTM A480/A480M, TYPE 304 OR 316, AS INDICATED ON DRAWINGS OR AS REQUIRED FOR THE APPLICATION. STENCIL EACH SHEET WITH GAUGE AND MANUFACTURER'S NAME. STENCIL COILS OF STAINLESS STEEL THROUGHOUT ON 10' CENTERS WITH GAUGE AND MANUFACTURER'S NAME. PROVIDE CERTIFICATION OF DUCT GAUGE AND MANUFACTURER FOR EACH SIZE DUCT.
6. FLEXIBLE DUCT LOW PRESSURE SHALL BE A CONTINUOUS GALVANIZED SPRING STEEL WIRE HELIX, WITH REINFORCED METALIZED COVER, REINFORCED VAPOR BARRIER JACKET RATED FOR USE AT SYSTEM PRESSURE (6" WC MINIMUM). THERMAL CHARACTERISTICS OF R-6 BTU/HR/SQ. FT./°F AND 2" WALL THICKNESS INSULATION WITH 1" OVERLAP. ACCEPTABLE MANUFACTURERS: FLEXMASTER, HART & COOLEY, OMNIAIR
7. ACCEPTABLE MANUFACTURERS: FLEXMASTER, THERMOFLEX, OMNIAIR.
8. WALL LOUVERS: REFER TO SCHEDULE ON DRAWINGS. COORDINATE WITH ARCHITECTURAL DRAWINGS. ALL LOUVER FRAMES SHALL BE A MINIMUM OF 0.08" EXTRUDED ALUMINUM. ALL BLADES SHALL BE A MINIMUM OF 0.081" EXTRUDED ALUMINUM. BEGINNING POINT OF WATER PENETRATION AT 0.01 OZ/SQ.FT. SHALL BE A MINIMUM OF 800 FT/MIN. PROVIDE ALL LOUVERS WITH REMOVABLE ALUMINUM BIRD SCREEN WITH 1/4" MESH.
9. VOLUME DAMPERS: MANUAL BALANCING DAMPERS THAT MEET OR EXCEED THE FOLLOWING MINIMUM CONSTRUCTION STANDARDS: FRAME 16-GAUGE, BLADES 16-GAUGE, BEARINGS CORROSION RESISTANT, OPPOSED BLADE DAMPERS.
10. INSTALLATION: USE CONSTRUCTION METHODS AND REQUIREMENTS AS OUTLINED IN SMACNA HVAC DUCT CONSTRUCTION STANDARDS AS WELL AS SMACNA BALANCING AND ADJUSTING PUBLICATIONS, UNLESS INDICATED OTHERWISE IN THE SPECIFICATIONS. REFER TO DETAILS ON THE DRAWINGS FOR ADDITIONAL INFORMATION. REINFORCE DUCTS IN ACCORDANCE WITH RECOMMENDED CONSTRUCTION PRACTICE OF SMACNA. PROVIDE ADDITIONAL REINFORCEMENT OF LARGE PLENUMS AS REQUIRED TO PREVENT EXCESSIVE FLEXING AND OR VIBRATION.

DUCTWORK INSULATION

1. FURNISH AND INSTALL EXTERNAL INSULATION ON SUPPLY, RETURN, EXHAUST AND FRESH AIR DUCTWORK.
2. ALL DUCT INSULATION USED ON THE PROJECT INSIDE THE BUILDING MUST HAVE A FLAME SPREAD RATING NOT EXCEEDING 25 AND A SMOKE DEVELOPED RATING NOT EXCEEDING 50 AS DETERMINED BY TEST PROCEDURES ASTM E84, NFPA 255 AND UL 723.
3. CONDENSATION ON ANY INSULATED SYSTEM IS NOT APPROVED.
4. WHERE EXISTING INSULATED DUCTWORK OR OTHER SERVICES ARE TAPPED, REMOVE EXISTING INSULATION BACK TO UNDAMAGED SECTIONS AND REPLACE WITH NEW INSULATION OF THE SAME TYPE AND THICKNESS AS EXISTING INSULATION.
5. INSULATION: GLASS FIBER BLANKET DUCT INSULATION. ACCEPTABLE MANUFACTURERS ARE: MANVILLE R-SERIES MICROLITE FSKL, OWENS-CORNING ED100 RKF, KNAUF 1.0 PCF FSK.
6. REINFORCED FOIL TAPE: ACCEPTABLE MANUFACTURERS ARE: VENTURE 1525CW, 3" FSK.

REFRIGERANT PIPING

1. REFRIGERANT PIPING: TYPE L SOFT-DRAWN COPPER TUBING WITH SWEAT-TYPE, WROUGHT COPPPER FITTINGS. CAST FITTINGS ARE NOT PERMITTED.
2. PRESSURE TEST: CHARGE THE SYSTEM WITH DRY NITROGEN AND TEST TO 300 PSIG. TEST JOINTS WITH A HALIDE TORCH OR AN ELECTRONIC LEAK DETECTOR. RETEST SYSTEM UNTIL PROVEN TIGHT.
3. EVACUATION AND DRYING: AFTER REFRIGERANT SYSTEM HAS BEEN PRESSURE TESTED, CONNECT A SUITABLE VACUUM PUMP AND EVACUATE PIPING SYSTEM, INCLUDING LINES AND EQUIPMENT. MAINTAIN A VACUUM AS HIGH AS PRACTICABLE FOR LONG ENOUGH TO EVAPORATE THE MOISTURE IN THE SYSTEM (AT LEAST 48 HOURS). CHECK THE HUMIDITY WITHIN THE SYSTEM WITH A WET BULB INDICATOR, AND MAINTAIN THE VACUUM UNTIL THE WET BULB TEMPERATURE IS REDUCED TO -40°F. AFTER THE SYSTEM HAS BEEN EVACUATED AND DRIED, BREAK THE VACUUM BY CHARGING PROPER REFRIGERANT INTO THE SYSTEM.
4. INSULATION: ELASTOMERIC INSULATION WITH A MINIMUM THICKNESS OF 3/4" WITH A FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DEVELOPED RATING OF 50 OR LESS. THERMAL CONDUCTIVITY OF 0.27 AT 75°F MEAN (ASTM C177 OR C 518). INSULATION TO BE ARMSTRONG OR APPROVED EQUAL. ALL INSULATION IS TO BE COVERED BY SMOOTH FABRICATED Z-LOCK ALUMINUM JACKET 0.016" THICK WITH A FACTORY APPLIED 1 MIL POLYETHYLENE/40LB AND FAB STRAP. KRAFT MOISTURE BARRIER. CHILDER LOCK-ON OR APPROVED EQUAL.

CONDENSATE PIPING

1. TYPE "L" COPPER WITH DRAINAGE PATTERN FITTINGS IN RETURN PLENUM AREAS, PVC WITH DRAINAGE PATTERN FITTINGS IN NON-PLENUM AREAS.
2. INSTALL THE SYSTEM TO FACILITATE EASY REMOVAL, USE THREADED PLUGGED TEE AT EACH CHANGE OF DIRECTION TO PERMIT CLEANING, INSTALL A CLEANOUT EVERY 50 FEET OF STRAIGHT RUN PIPING, MAINTAIN A POSITIVE SLOPE ON ALL PIPING.
3. INSTALL A WATER SEAL TRAP LEG BASED ON THE FAN PRESSURE. SIZE OTHER LENGTH OF THE TRAP LEG 1 INCH LARGER THAN THE ACTUAL SYSTEM PRESSURE.
4. DO NOT INSTALL PIPING SIZED SMALLER THAN THE UNIT DRAIN CONNECTION SIZE.
5. INSULATE PIPING WITH 3/4" ELASTOMERIC INSULATION FOR ALL PIPE BELOW ROOF.
6. INSULATION TO BE 25/50 FLAME AND SMOKE RATING.

AIR DEVICES

1. FURNISH AND INSTALL AIR DISTRIBUTION DEVICES, INCLUDING GRILLES, DIFFUSERS, REGISTERS, DAMPERS, AND EXTRACTORS.
2. ACCEPTABLE MANUFACTURERS: TUTTLE AND BAILEY, TITUS, KRUEGER, METAL-AIRE, NAILOR INDUSTRIES, PRICE

AIR FILTERS

1. AIR FILTERS: FURNISH AND INSTALL A DISPOSAL MEDIA AND FRAME FILTER WITH RESISTANCE TO AIR FLOW OF A CLEAN FILTER NOT TO EXCEED 0.12" WG AT 300 FPM.
2. INSTALL THE FILTERS AND FILTER GAUGES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

FANS

1. PROVIDE FAN TYPE, ARRANGEMENT, ROTATION, CAPACITY, SIZE, MOTOR HORSEPOWER, AND MOTOR VOLTAGE AS SHOWN. FAN CAPACITIES AND CHARACTERISTICS ARE SCHEDULED ON THE DRAWINGS. PROVIDE FANS CAPABLE OF ACCOMMODATING STATIC PRESSURE VARIATIONS OF +10% OF SCHEDULED DESIGN AT THE DESIGN AIR FLOW.
2. ACCEPTABLE MANUFACTURERS: GREENHECK, COOK, PENN VENTILATOR, ACME, CARNES, TWIN CITY
3. SAFETY DISCONNECT SWITCH: PROVIDE A FACTORY-WIRED TO MOTOR, SAFETY DISCONNECT SWITCH ON EACH UNIT.
4. PREFABRICATED ROOF CURBS: FURNISH PREFABRICATED ROOF CURBS AS DETAILED. THE MINIMUM HEIGHT IS 14". INCLUDE A RESILIENT PAD ON EACH ROOF CURB SO THE EQUIPMENT CAN BE MOUNTED ON THE TOP FLANGE FOR PROPER SEAL. COORDINATE ROOF SLOPE AND CURB TO ENSURE EQUIPMENT IS INSTALLED IN LEVEL POSITION. PROVIDE DOUBLE SHELL TO PROTECT INSULATION FROM DAMAGE.
5. DAMPERS. WHERE AUTOMATIC BACKDRAFT DAMPER IS SCHEDULED: MULTI-BLADED, ROLL FORMED ALUMINUM BLADES, NYLON BEARINGS, NEOPRENE WEATHER STRIP ON BLADE EDGE.
6. FURNISH SUPPLY FANS WITH 1" ALUMINUM, WASHABLE FILTER SECTION.
7. ROOFTOP VENTILATION AND EXHAUST SYSTEMS: PROVIDE EACH MOTOR WITH INTERNAL OVERLOAD PROTECTION, ALUMINUM, STAINLESS STEEL OR PLASTIC COATED BIRD GUARD, SCREWS AND FASTENERS OF STAINLESS STEEL OR NONFERROUS MATERIAL, ALL ALUMINUM CONSTRUCTION UNLESS INDICATED OTHERWISE ON FAN SCHEDULE, WELDED CONSTRUCTION, CORROSION RESISTANT FASTENERS, MINIMUM 16 GAUGE MARINE ALLOY ALUMINUM, ALUMINUM BASE SHALL BE CONTINUOUSLY WELDED CURB CAP CORNERS.

HEAT PUMP

1. FURNISH AND INSTALL AIR-COOLED CONDENSING UNITS COMPLETE WITH CASING, COMPRESSOR, CONDENSER COIL, CONDENSER FAN AND CONTROLS REQUIRED FOR A SPLIT AIR CONDITIONING SYSTEM.
2. PROVIDE PERFORMANCE AS SCHEDULED ON DRAWINGS, AND HEAD PRESSURE CONTROL TO ENABLE UNIT TO OPERATE IN TEMPERATURES AS LOW AS 20°F.
3. ACCEPTABLE MANUFACTURERS: DAIKIN, CARRIER, TRANE, YORK/JCI.
4. COMPRESSOR: PROVIDE A HERMETIC COMPRESSOR WITH CRANKCASE HEATERS, INHERENTLY MOTORS, SPRING MOUNTS AND CAPACITY MODULATION. PROVIDE EACH COMPRESSOR WITH A 5-YEAR WARRANTY.
5. CONDENSER COILS: PROVIDE COPPER TUBES WITH MECHANICALLY BONDED ALUMINUM FINS. PROTECT CONDENSER COILS WITH A HEAVY GAUGE, CORROSION RESISTANT WIRE GUARD. F. FANS AND MOTORS: PROVIDE PROPELLER-TYPE FANS WITH DIRECT DRIVE OR BELT DRIVE AND VERTICAL DISCHARGE. PROTECT FAN WITH A HEAVY-GAUGE, CORROSION RESITANT WIRE GUARD. PROVIDE INHERENTLY PROTECTED, PERMANENTLY LUBRICATED, AND WEATHERPROOF MOTORS.
6. CONTROLS: PROVIDE SAFETY AND OPERATING CONTROLS FACTORY WIRED AND MOUNTED IN A SEPARATE ENCLOSURE. INCLUDE HIGH AND LOW PRESSURE SWITCHES AND COMPRESSOR MOTOR OVERLOAD DEVICES. FURNISH A TIME DELAY DEVICE TO PREVENT SHORT CYCLING. EMPLOY A CONTROL TRANSFORMER, A PRESSURE RELIEF DEVICE AND SUCTION AND DISCHARGE VALVES WITH SERVICE CONNECTIONS.
7. THERMOSTAT: LOW VOLTAGE THERMOSTAT IS A COMPONENT OF THE UNIT MANUFACTURER UNLESS SPECIFIED IN ANOTHER SECTION. INDIVIDUAL HEATING/COOLING SET POINTS. AUTOMATIC HEAT/COOL CHANGE-OVER. SUB-BASE ON-OFF-AUTO FAN SELECTION. SUB-BASE HEAT-OFF-COOL-AUTO SYSTEM SELECTION.
8. INSTALLATION: MOUNT CONDENSING UNITS ON 4" FOUNDATION PADS AND PIPE AS SHOWN ON DRAWINGS OR AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER. INSTALL REMOVABLE CORE REFRIGERANT FILTER DRYER AND SIGHT INDICATING GLASS.
9. CONTROL WING: FURNISH AND INSTALL CONTROL WIRING AS REQUIRED. INSTALL CONTROL WIRING IN CONDUIT.

AIR HANDLING UNIT

1. ACCEPTABLE MANUFACTURERS: DAIKIN, TRANE, CARRIER, YORK/JCI
2. FAN SECTION: LOCATE THE MOTOR AND DRIVE ASSEMBLY INSIDE THE CABINET. SIZE EACH V-BELT DRIVE FOR 50% OVERLOAD. ADJUSTABLE PITCH MOTOR PULLEY. PROVIDE BUILT-IN MOTOR PROTECTION PROVIDE A BELT ADJUSTMENT MEANS. SELECT THE FAN MOTOR SO THAT THE BRAKE HORSEPOWER REQUIRED TO DELIVER THE DESIGN AIR QUANTITY AT THE SYSTEM STATIC PRESSURE WILL NOT EXCEED THE MOTOR NAMEPLATE AMPERAGE RATING.
3. UNIT HOUSING: CONSTRUCT THE UNIT OF GALVANIZED STEEL SHEETS, AND FORMED MEMBERS. INTERNALLY INSULATE THE ENTIRE UNIT WITH NEOPRENE COATED, 1-1/2 LB. DENSITY GLASS FIBER INSULATION, APPLIED TO INTERNAL SURFACES WITH ADHESIVE AND WELD PINS. COAT EXPOSED EDGES OF INSULATION WITH ADHESIVE. PROVIDE A DUCT FLANGE ON FOUR SIDES OF THE RETURN AIR INLET AND SUPPLY AIR OUTLET OF THE UNIT.
4. CONDENSATE DRAIN PANS: PROVIDE IAQ STYLE DRAIN PANS SHALL BE PROVIDED UNDER ALL COILS. PITCH TO DRAIN CONNECTION.

THERMOSTAT:

1. ACCEPTABLE MANUFACTURERS: HONEYWELL, JOHNSON CONTROLS, SCHNEIDER ELECTRIC, EMERSON, WHITE-RODGERS, OR APPROVED EQUAL.
2. THE UNIT SHALL CONSIST OF A WALL-MOUNTED, MICROPROCESSOR-BASED, 7-DAY PROGRAMMABLE ELECTRONIC THERMOSTAT WITH A MOLDED PLASTIC ENCLOSURE SUITABLE FOR INSTALLATION IN OCCUPIED SPACES. THE THERMOSTAT SHALL INCLUDE A DIGITAL DISPLAY FOR INDICATION OF SPACE TEMPERATURE, SETPOINT, DAY, TIME, AND OPERATING MODE. UNITS SHALL BE CAPABLE OF INDEPENDENT DAILY SCHEDULING FOR ALL SEVEN DAYS AND SHALL BE COMPATIBLE WITH SINGLE-STAGE OR MULTI-STAGE HEATING AND COOLING SYSTEMS AS REQUIRED. THERMOSTATS SHALL INCLUDE INTERNAL TEMPERATURE SENSING ELEMENTS WITH FIELD-ADJUSTABLE SETPOINTS AND SHALL PROVIDE FAN AUTO/ON CONTROL.
3. COMPLY WITH APPLICABLE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE (IBC), INTERNATIONAL MECHANICAL CODE (IMC), AND APPLICABLE ENERGY CODES INCLUDING THE INTERNATIONAL ENERGY CONSERVATION CODE (IECC) OR ASHRAE STANDARD 90.1, AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION. THERMOSTATS SHALL BE CAPABLE OF MEETING ALL APPLICABLE IECC CONTROL, SETPOINT, AND SCHEDULING REQUIREMENTS.
4. TO ENSURE RELIABLE AND ENERGY-EFFICIENT OPERATION, THERMOSTATS SHALL UTILIZE SOLID-STATE SENSING ELEMENTS WITH A MINIMUM ACCURACY OF ±1°F AND SHALL INCLUDE PROGRAMMABLE OCCUPIED AND UNOCCUPIED SETBACKS FOR HEATING AND COOLING. THERMOSTATS SHALL PROVIDE AN ADJUSTABLE TEMPERATURE DEADBAND BETWEEN HEATING AND COOLING SETPOINTS WITH A MINIMUM DEADBAND OF 5°F, UNLESS OTHERWISE REQUIRED BY THE ADOPTED ENERGY CODE. MAXIMUM AND MINIMUM ADJUSTABLE SETPOINT LIMITS SHALL BE PROVIDED TO RESTRICT HEATING SETPOINTS TO NOT GREATER THAN 70°F AND COOLING SETPOINTS TO NOT LESS THAN 75°F DURING OCCUPIED MODE, UNLESS OTHERWISE REQUIRED BY THE AUTHORITY HAVING JURISDICTION. THERMOSTATS SHALL INCLUDE ANTI-SHORT-CYCLE PROTECTION FOR COMPRESSOR-BASED SYSTEMS AND SHALL RETAIN ALL PROGRAMS AND TIME SETTINGS DURING POWER INTERRUPTION. KEYPAD LOCKOUT OR PASSWORD PROTECTION SHALL BE PROVIDED WHERE REQUIRED. NO MERCURY-CONTAINING COMPONENTS SHALL BE USED.
5. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODES. PROVIDE ALL NECESSARY CONTROL WIRING, POWER, AND ACCESSORIES REQUIRED FOR A COMPLETE AND OPERATIONAL INSTALLATION. LOCATE THERMOSTATS AS SHOWN ON THE DRAWINGS AND IN LOCATIONS FREE FROM DRAFTS, DIRECT SUNLIGHT, OR HEAT-GENERATING SOURCES.

CONTROLS SEQUENCE

SPLIT SYSTEM HEAT PUMP WITH EMERGENCY BACKUP HEAT (AHU-1 & HP-1):

1. CONTROLLER: UNITS SHALL BE PROVIDED WITH STAND-ALONE FACTORY MOUNTED CONTROLS CAPABLE OF MAINTAINING THE SEQUENCES OF OPERATIONS. THE CONTRACTOR SHALL PROVIDE ALL THE NECESSARY SENSORS, WIRING, AND CONTROLS TO MAINTAIN THE SEQUENCE OF OPERATIONS. THE UNITS SHALL BE CONTROLLED BY SPACE MOUNTED TEMPERATURE AND HUMIDITY SENSORS.
2. ON A SIGNAL FROM THE SPACE MOUNTED THERMOSTAT THE SUPPLY AIR FAN SHALL OPERATE CONTINUOUSLY AND THE ASSOCIATED OUTDOOR AIR MOD SHALL MODULATE TO BALANCED SET POSITION. DURING COOLING MODE, THE HEAT PUMP SHALL SEQUENCE TO MAINTAIN SPACE TEMPERATURE SETPOINT. DURING HEATING MODE, THE HEAT PUMP SHALL SEQUENCE TO MAINTAIN SPACE TEMPERATURE SETPOINT. DURING HEATING MODE IF THE HEAT PUMP CAN NOT REACH THE SPACE SET POINT THE BACKUP ELECTRIC HEATER SHALL ENERGIZE AND THE HEAT PUMP SHALL DEENERGIZE UNTIL THE SPACE SET POINT IS ACHIEVED.
3. ON A SIGNAL FROM THE SPACE MOUNTED THERMOSTAT THAT THE SPACE HAS EXCEEDED THE HUMIDITY SETPOINT OF 50% RH (ADJUSTABLE), THE SPACE THERMOSTAT SHALL REDUCE THE SPACE SET POINT BY 3°F THE SUPPLY FAN SHALL CYCLE ON AND THE HEAT PUMP SHALL SEQUENCE TO ACHIEVE THE NEW SPACE SET POINT. ONCE SPACE HUMIDITY HAS BEEN ACHIEVED THE THERMOSTAT SHALL REVERT BACK TO THE ORGINAL SPACE SET POINT.

BATHROOM EXHUAST FANS (EF-1)

1. EXHUAST FANS SHALL OPERATE CONTINUOUSLY WHILE THE ASSOCIATED ROOM LIGHTS ARE ENERGIZED.

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SCALE	N/A
JOB NO.	57972.002
SHEET NO.	M002

MILLER PARK POOL
THE CITY OF LYNCHBURG

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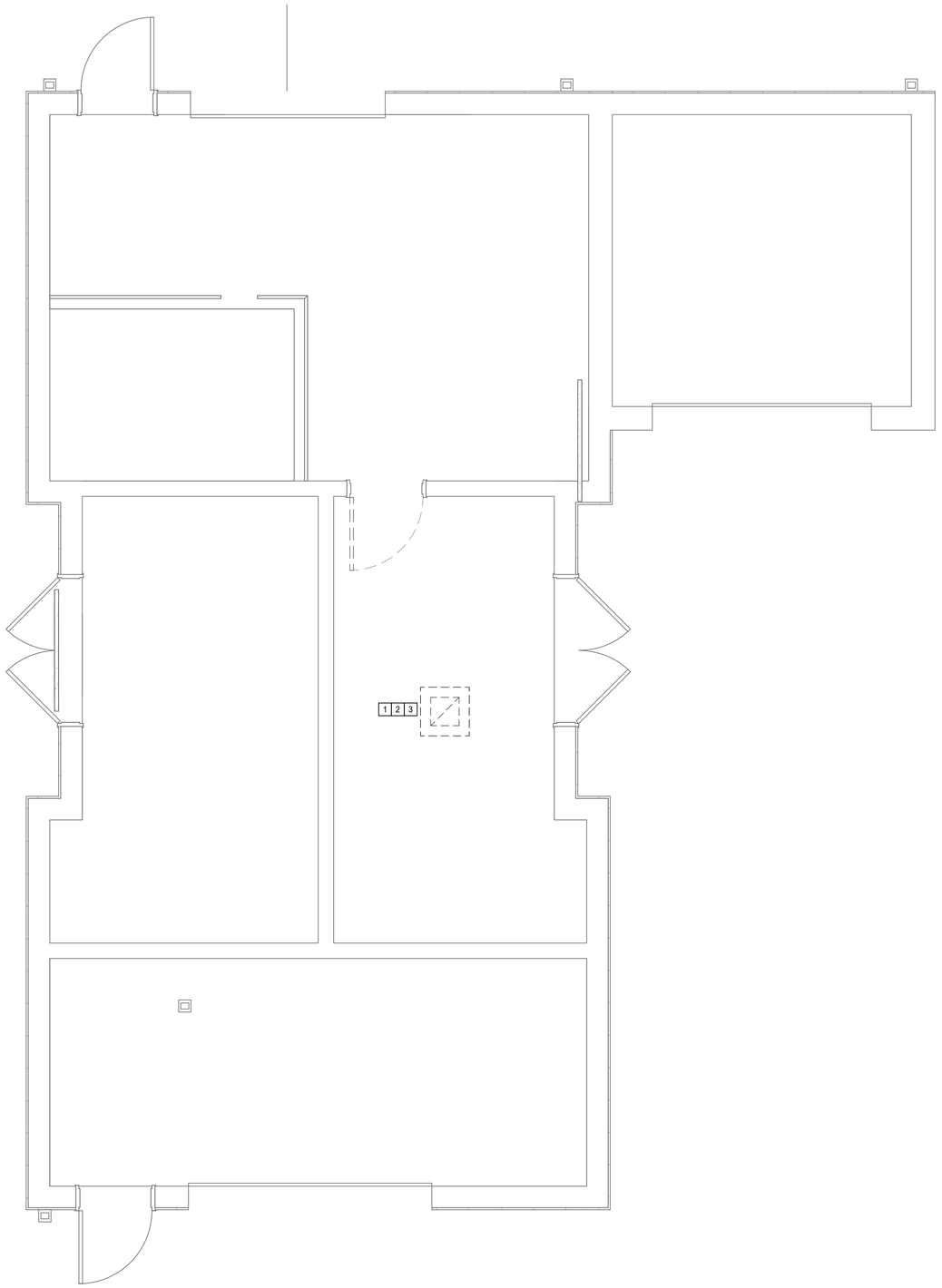

SHEET KEYNOTES:

1. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF EXISTING MECHANICAL EQUIPMENT TO BE DEMOLISHED PRIOR TO DEMOLITION.
2. CONTRACTOR SHALL REMOVE ALL DUCTWORK AND ASSOCIATED APPERTURANCES.
3. CONTRACTOR SHALL SEAL ROOF PENETRATION WEATHER TIGHT, AND RESTORE ROOF PENETRATION TO MATCH ORIGIINIAL FINISH.

1 **DEMOLITION FLOOR PLAN - MAINTENACE BUILDING - MECHANICAL**
Scale: 3/8" = 1'-0"

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MILLER PARK POOL
THE CITY OF LYNCHBURG

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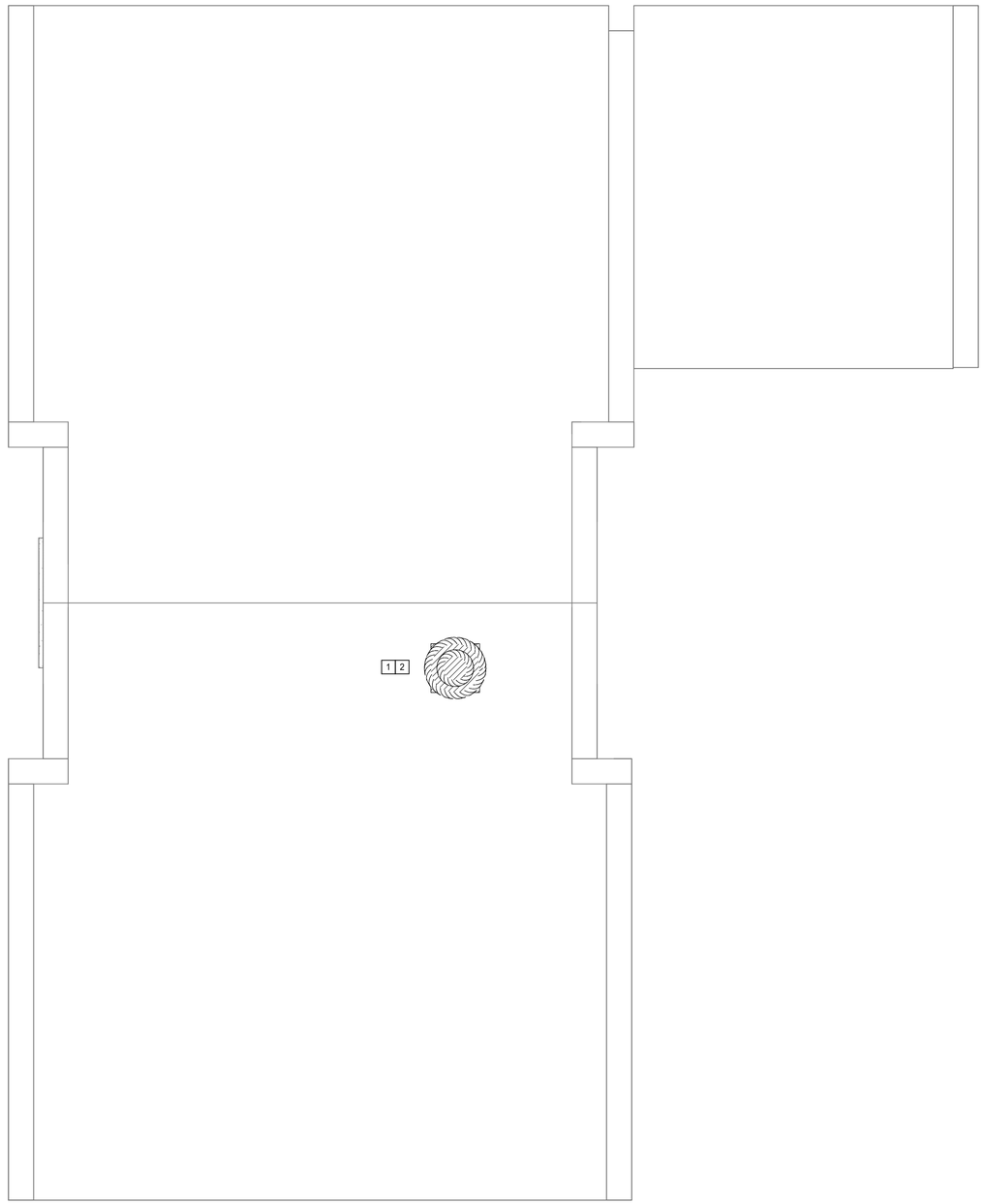

SHEET KEYNOTES:

1. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF EXISTING MECHANICAL EQUIPMENT TO BE DEMOLISHED PRIOR TO DEMOLITION.
2. CONTRACTOR SHALL SEAL ROOF PENETRATION WEATHER TIGHT, AND RESTORE ROOF PENETRATION TO MATCH ORIGINIAL FINISH.

1 **DEMOLITION ROOF PLAN - MAINTENACE BUILDING - MECHANICAL**
Scale: 3/8" = 1'-0"

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THE CITY OF LYNCHBURG

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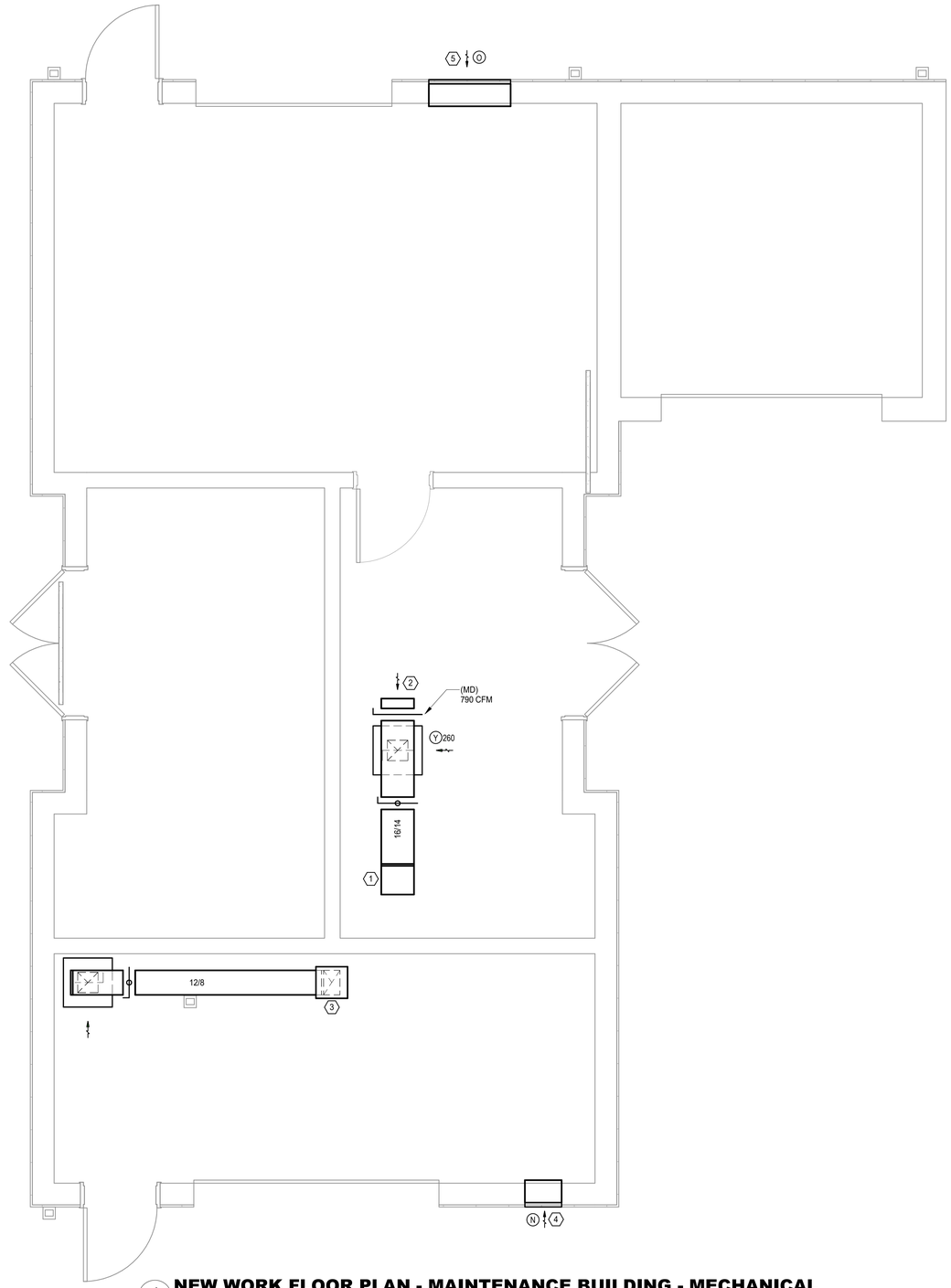

1 **NEW WORK FLOOR PLAN - MAINTENANCE BUILDING - MECHANICAL**
Scale: 3/8" = 1'-0"

SHEET KEYNOTES:

1. ROUTE 16/14 EXHAUST DUCT UP THROUGH ROOF TO REF-1. CONTRACTOR TO TRANSITION AS REQUIRED TO MAKE CONNECTION.
2. TERMINATE DUCTWORK WITH 1/2" ALUMINUM MESH SCREEN.
3. ROUTE 12/8 EXHAUST DUCT UP THROUGH ROOF TO REF-2. CONTRACTOR TO TRANSITION AS REQUIRED TO MAKE CONNECTION.
4. PROVIDE AND INSTALL 18X18 LOUVER, MOUNTED AT 6'-6" ABOVE FINISHED FLOOR. CONTRACTOR TO SEAL EXTERIOR WALL PENETRATION WEATHER TIGHT. COORDINATE LOUVER COLOR WITH ARCHITECT AND OWNER.
5. PROVIDE AND INSTALL 40X24 LOUVER, MOUNTED AT 6'-6" ABOVE FINISHED FLOOR. CONTRACTOR TO SEAL EXTERIOR WALL PENETRATION WEATHER TIGHT. COORDINATE LOUVER COLOR WITH ARCHITECT AND OWNER.

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MILLER PARK POOL
THE CITY OF LYNCHBURG

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SHEET NO. M102

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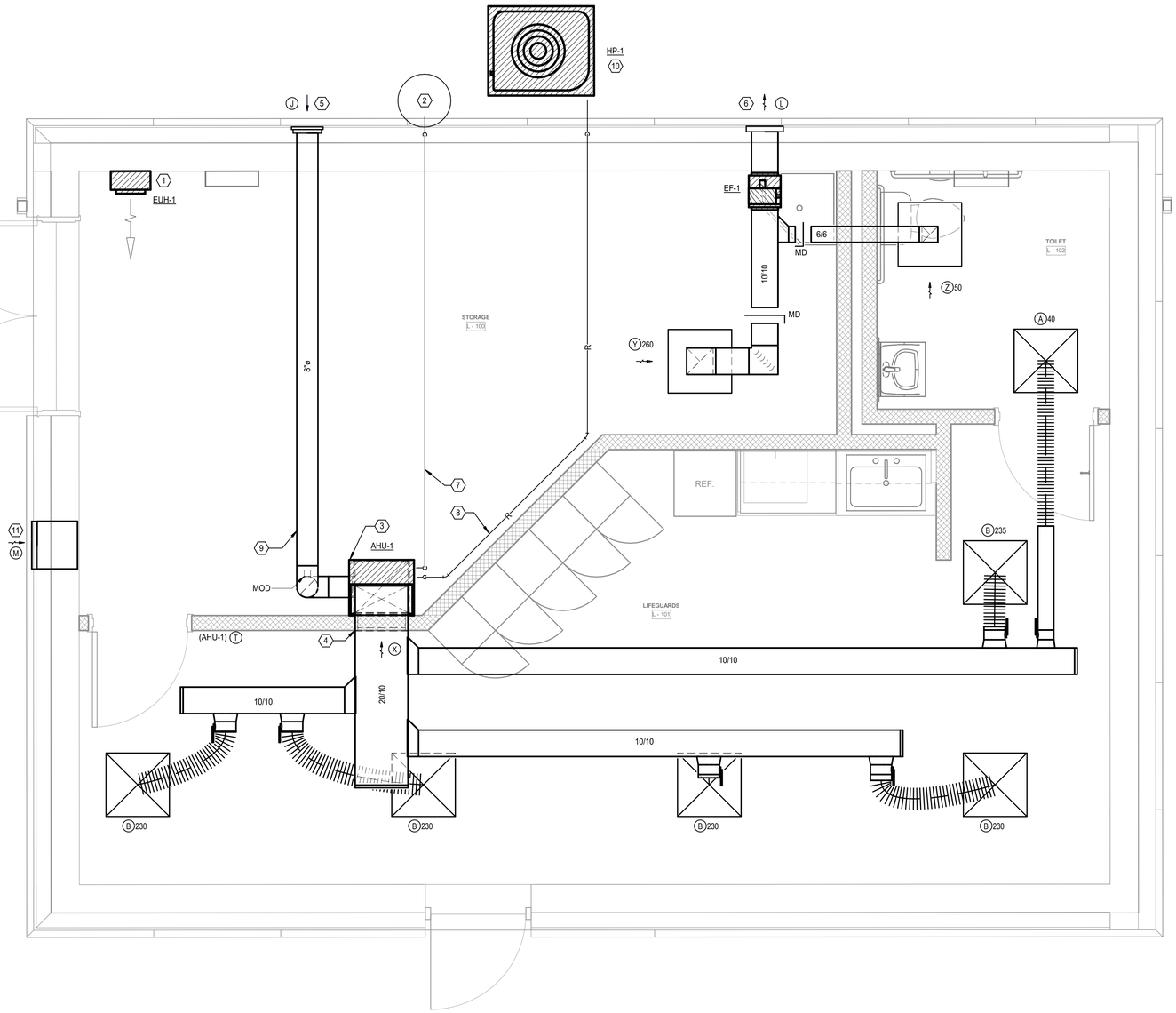

1 NEW WORK FLOOR PLAN - LIFEGUARD BUILDING - MECHANICAL

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

SHEET KEYNOTES:

1. MOUNT EUH-1 1'-0" AFF. COORDINATE EQUIPMENT LOCATION TO MAINTAIN THE MANUFACTURER'S REQUIRED CLEARANCES AND RECOMMENDED INSTALLATION GUIDELINES.SEE ELECTRIC WALL HEATER DETAIL ON SHEET M501.
2. ROUTE 1 1/4" CONDENSATE LINE DOWN EXTERIOR WALL AND TERMINATE INTO DRYWELL. SEE DETAIL ON SHEET M501.
3. AIR HANDLER UNIT SHALL BE VERTICALLY MOUNTED ON A 3'-0" TALL 20/20 RETURN AIR PLENUM. COORDINATE WITH ALL TRADES DRAWINGS TO POSITION THE UNIT SO THAT THE UNIT, PIPING, AND ACCESSORIES MAINTAIN MANUFACTURER SERVICE CLEARANCES. COORDINATE WITH MANUFACTURER DRAWINGS FOR REQUIRED UNIT CLEARANCES.
4. RETURN GRILLE SHALL BE MOUNTED AT 0'-2" ABOVE FINISHED FLOOR.
5. PROVIDE AND INSTALL OUTSIDE AIR INTAKE VENT CAP. MOUNT BOTTOM OF OUTDOOR AIR INTAKE AT 10'-0" ABOVE FINISHED FLOOR. CONTRACTOR TO SEAL EXTERIOR WALL PENETRATION WEATHER TIGHT.
6. PROVIDE AND INSTALL EXHAUST LOUVER, MOUNTED AT 10'-0" ABOVE FINISHED FLOOR. CONTRACTOR TO SEAL EXTERIOR WALL PENETRATION WEATHER TIGHT. COORDINATE LOUVER COLOR WITH ARCHITECT AND OWNER.
7. ROUTE 1 1/4" CONDENSATE DRAIN LINE AT 1/8" PER 1'-0" DOWN FROM AHU-1 TO CONDENSATE PUMP AND UP TO CEILING SPACE.
8. ROUTE REFRIGERANT LINE FROM AHU-1 UP TO CEILING SPACE TO HP-1.
9. ROUTE 8" Ø OUTDOOR AIR DUCT DOWN AND CONNECT TO THE RETURN AIR PLENUM. PROVIDE MOD MOUNTED 4'-0" ABOVE FINISHED FLOOR IN 8" Ø OUTDOOR AIR DUCT PRIOR TO CONNECTION TO RETURN AIR PLENUM.
10. PROVIDE 4" THICK REINFORCED CONCRETE HOUSEKEEPING PAD. SIZE PAD PER UNIT MANUFACTURER'S RECOMMENDATIONS. COORDINATE CONDENSING UNIT LOCATION TO MAINTAIN THE MANUFACTURER'S REQUIRED CLEARANCES AND ADJUST LOCATION AS NECESSARY TO SUIT. EXPOSED PIPING SHALL BE WEATHERPROOFED AND COVERED WITH PVC JACKETING. PIPING INSTALLED THROUGH WALL SHALL BE INSTALLED THOUGH A PIPE SLEEVE AND SEALED AIR AND WATER TIGHT.
11. PROVIDE AND INSTALL LOUVER, MOUNTED AT 10'-0" ABOVE FINISHED FLOOR. CONTRACTOR TO SEAL EXTERIOR WALL PENETRATION WEATHER TIGHT. COORDINATE LOUVER COLOR WITH ARCHITECT AND OWNER.

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MILLER PARK POOL
THE CITY OF LYNCHBURG

JOB NO. 57972.002
SHEET NO. M103

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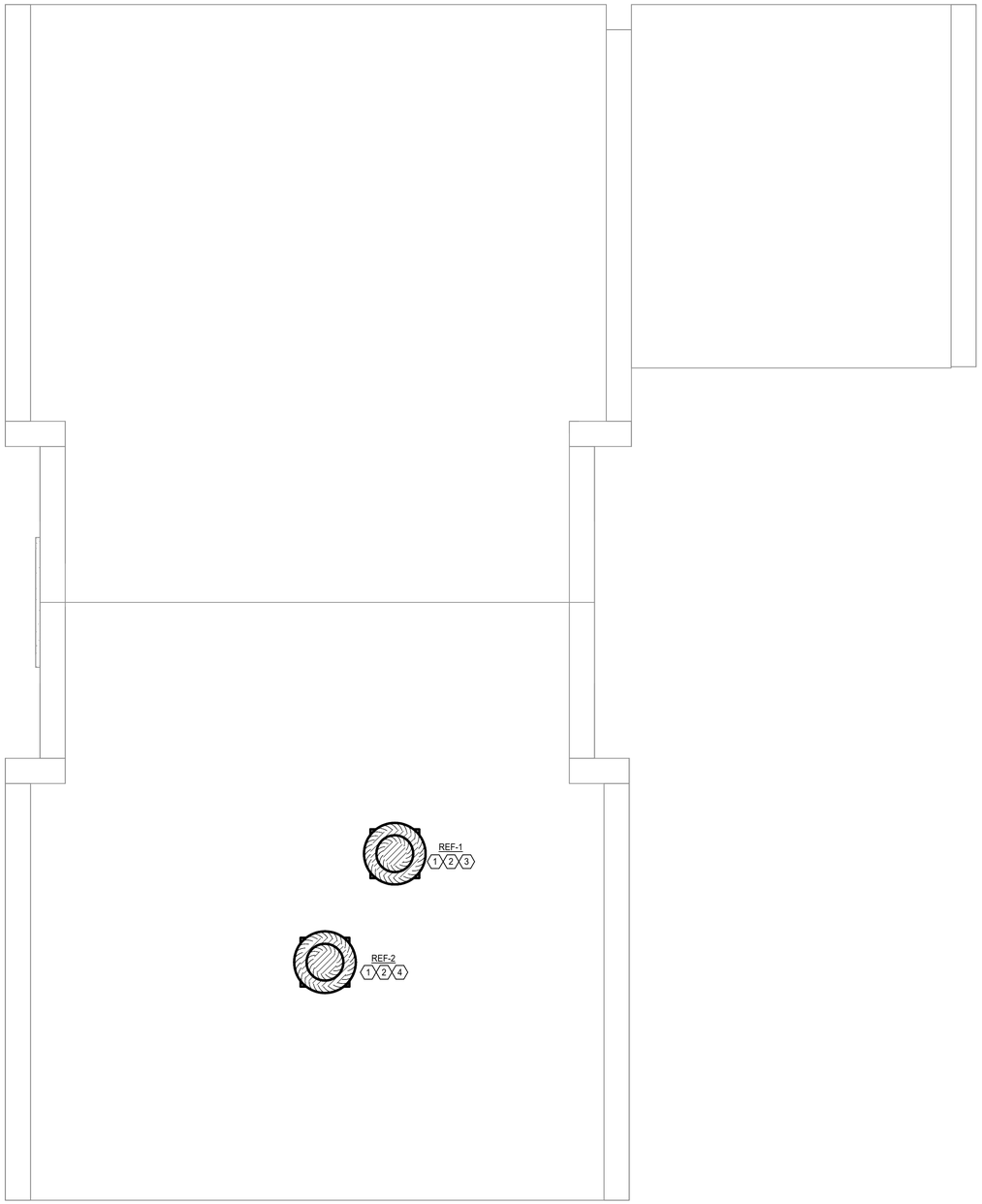

SHEET KEYNOTES:

1. ROOF EXHAUST FAN TO BE MOUNTED ON A 14" ROOF CURB SIZED PER UNIT MANUFACTURER'S RECOMMENDATIONS.
2. MOUNT ROOF CURB SLOPED TO MATCH ROOF AND SIZED PER UNIT MANUFACTURERS RECOMMENDATIONS. COORDINATE UNIT LOCATION TO MAINTAIN THE MANUFACTURERS REQUIRED CLEARANCES AND ADJUST LOCATION AS NECESSARY TO SUIT.
3. CONTRACTOR TO PROVIDE ROOF GUARD FOR REF-1 IN ACCORDANCE WITH 2021 LMC SECTION 304.11.
4. CONTRACTOR TO PROVIDE ROOF GUARD FOR REF-2 IN ACCORDANCE WITH 2021 LMC SECTION 304.11.

1 **NEW WORK ROOF PLAN - MAINTENACE BUILDING - MECHANICAL**
Scale: 3/8" = 1'-0"

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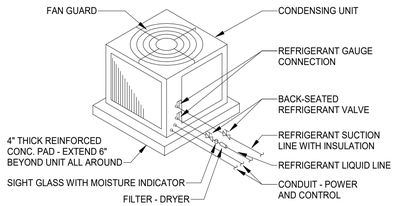
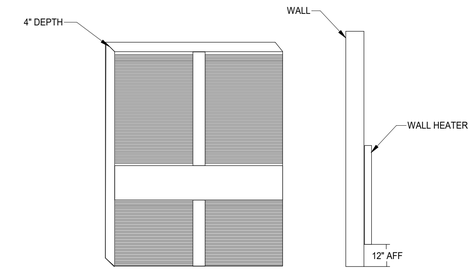
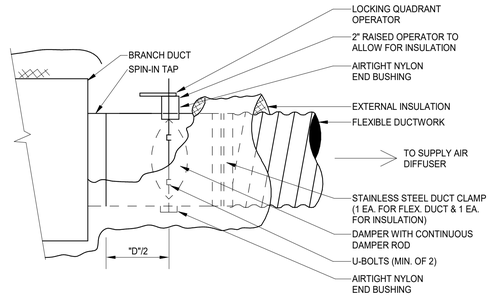


1 AIR COOLED CONDENSING UNIT (CONCRETE PAD)
Scale: NONE



NOTE:
1. INTEGRAL THERMOSTAT. SETPOINT AT 45 DEGREES (ADJUSTABLE).
2. SURFACE MOUNTED FOR ALL RATED WALLS.
3. RECESSED MOUNTED FOR NON-RATED WALLS.
4. OPTIONAL ACCESSORIES: SURFACE MOUNTED ADAPTER OR SEMI-RECESSED MOUNTED ADAPTER.
5. CONFIRM ROUGH IN DIMENSIONS (FOR RECESSED APPLICATION) WITH MANUFACTURER SPECIFICATIONS.

2 ELECTRIC WALL HEATER
Scale: NONE



3 FLEXIBLE DUCT TAP - SPIN-IN
Scale: NONE

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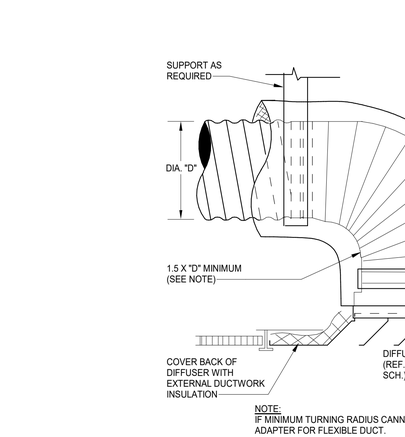
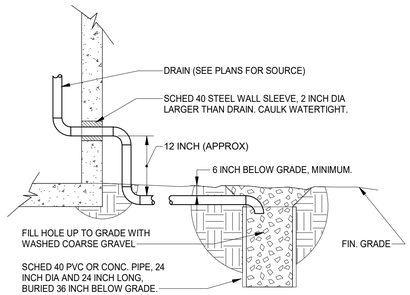


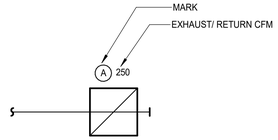
4 DUCTWORK AT LOUVER
Scale: NONE

NOTE:
IF MINIMUM TURNING RADIUS CANNOT BE MAINTAINED PROVIDE ADAPTER FOR FLEXIBLE DUCT.

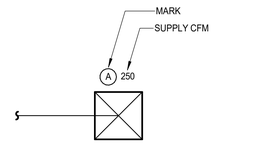
5 FLEX DUCT CONNECTION AT SUPPLY AIR DIFFUSER
Scale: NONE



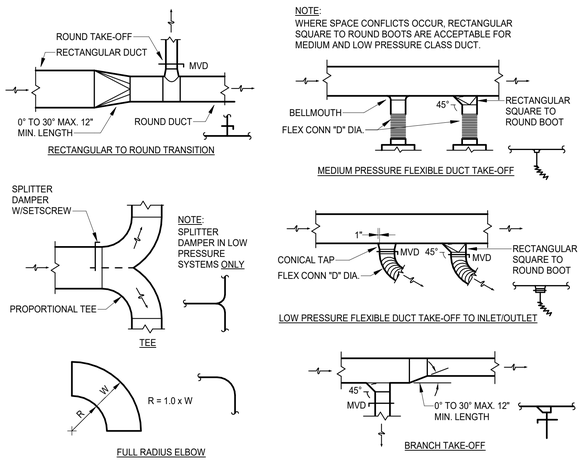
6 CONDENSATE DISCHARGE INTO DRYWELL
Scale: NONE



7 REGISTER SIZING
Scale: NONE



8 DIFFUSER SIZING
Scale: NONE

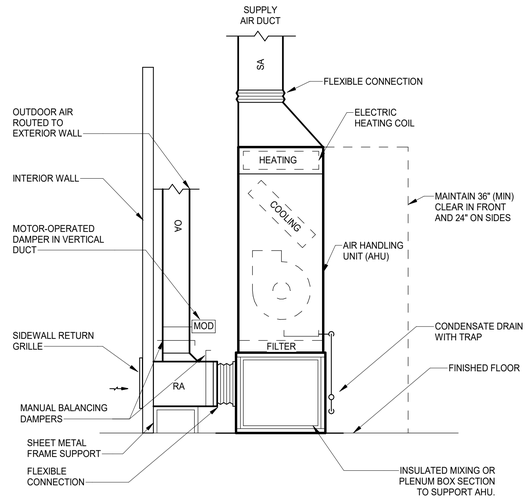


NOTE:
WHERE SPACE CONFLICTS OCCUR, RECTANGULAR SQUARE TO ROUND BOOTS ARE ACCEPTABLE FOR MEDIUM AND LOW PRESSURE CLASS DUCT.

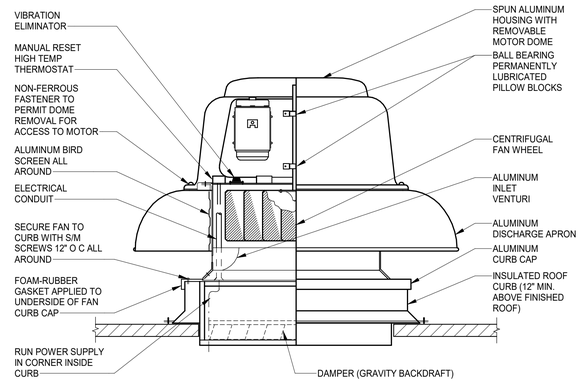
NOTE:
SPLITTER DAMPER IN LOW PRESSURE SYSTEMS ONLY

NOTE:
UNLESS NOTED OTHERWISE ALL MITERED 90 DEGREE ELBOWS SHALL HAVE TURNING VANES. 45 DEGREE ELBOWS SHALL NOT HAVE TURNING VANES.

9 STANDARD DUCT CONSTRUCTION
Scale: NONE



10 VERTICAL INDOOR AHU DETAIL
Scale: NONE



NOTES:
1. INSTALL FAN LEVEL; PROVIDE PITCHED ROOF CURB WHERE APPLICABLE.

11 CENTRIFUGAL ROOF EXHAUST FAN DETAIL
Scale: NTS

COMMONWEALTH OF VIRGINIA
05/22/2026
SAMUEL S. LOTT
Lic. No. 061900
PROFESSIONAL ENGINEER

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DESIGNED BY WKS
CHECKED BY SSL
SCALE N/A

TIMMONS GROUP

MILLER PARK POOL
THE CITY OF LYNCHBURG

JOB NO. 57972.002
SHEET NO. M501

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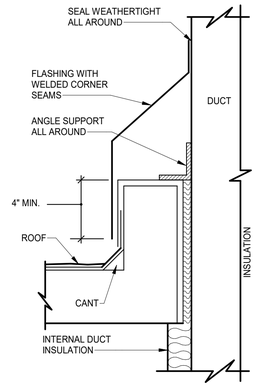
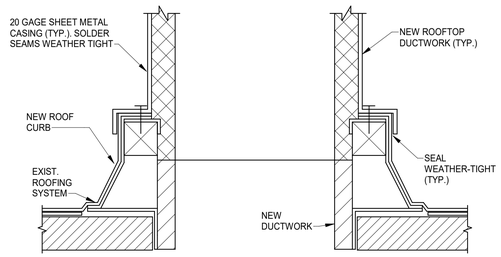
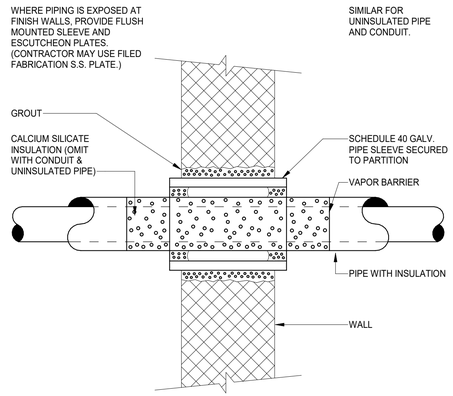


1 DUCT FLASHING AT ROOF CURB DETAIL
Scale: NONE



2 DUCT ROOF CURB DETAIL
Scale: NONE



3 PIPE THRU FIRE RATED WALL
Scale: NONE

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COMMONWEALTH OF VIRGINIA
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DATE	REVISION DESCRIPTION

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DATE 05/22/2026
DRAWN BY WKS
DESIGNED BY WKS
CHECKED BY SSL
SCALE N/A

TIMMONS GROUP

MILLER PARK POOL
THE CITY OF LYNCHBURG

JOB NO. 57972.002
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ELECTRICAL SYMBOL SCHEDULE

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
LIGHTING FIXTURES (LETTER DENOTES TYPE - SEE LIGHT FIXTURE SCHEDULE)	
	LIGHTING FIXTURE, SYMBOL SIZE VARIES WITH FIXTURE TYPE.
	LIGHTING FIXTURE WITH INTEGRAL BATTERY BACKUP, SYMBOL SIZE VARIES WITH FIXTURE TYPE.
	DOWNLIGHT FIXTURE
	LIGHTING FIXTURE, WALL MOUNTED.
	DOWNLIGHT FIXTURE WITH INTEGRAL BATTERY BACKUP
	LIGHTING FIXTURE, WALL MOUNTED, WITH INTEGRAL BATTERY BACKUP.
	EXIT SIGN WITH DIRECTIONAL ARROWS AS INDICATED
LIGHTING CONTROL DEVICES	
$D	WALL DIMMER SWITCH
$O1	SWITCH WITH INTEGRAL OCCUPANCY SENSOR. SUBSCRIPT INDICATES TYPE AS SCHEDULED.
$V1	SWITCH WITH INTEGRAL VACANCY SENSOR. SUBSCRIPT INDICATES TYPE AS SCHEDULED.
$L1	LOW-VOLTAGE SWITCH. SUBSCRIPT INDICATES TYPE AS SCHEDULED.
O1	CEILING MOUNTED OCCUPANCY SENSOR. SUBSCRIPT INDICATES TYPE AS SCHEDULED.
V1	CEILING MOUNTED VACANCY SENSOR. SUBSCRIPT INDICATES TYPE AS SCHEDULED.
RECEPTACLES AND OUTLETS	
	DUPLEX RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE, NEMA TYPE AS NOTED
	DOUBLE DUPLEX RECEPTACLE IN 2-GANG BOX WITH SINGLE COVER PLATE
J	JUNCTION BOX
	FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE
	DUPLEX GFCI RECEPTACLE
	DOUBLE DUPLEX GFCI RECEPTACLE IN A 2-GANG OUTLET BOX WITH SINGLE COVER PLATE
J	FLUSH FLOOR MOUNTED JUNCTION BOX

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
MOTOR CONTROLLERS AND EQUIPMENT	
	DISCONNECT SWITCH
$M	MANUAL MOTOR TOGGLE SWITCH, HORSEPOWER RATED, SINGLE POLE U.N.O.
VFD	VARIABLE FREQUENCY DRIVE (FURNISHED BY DIVISION 23)
ELECTRICAL EQUIPMENT	
	ELECTRICAL BRANCH OR DISTRIBUTION PANELBOARD - SEE RISER FOR ADDITIONAL INFORMATION
	TELEPHONE CABINET
	PLYWOOD TELEPHONE BACKBOARD
	DRY-TYPE TRANSFORMER - SEE RISER FOR ADDITIONAL INFORMATION
SUBSCRIPTS AND ABBREVIATIONS	
AFF	ABOVE FINISHED FLOOR
DISP	GARBAGE DISPOSAL OUTLET WITH TOGGLE SWITCH
ED	EXISTING TO BE DEMOLISHED
ER	EXISTING TO REMAIN
ERL	EXISTING TO BE RELOCATED
ERN	EXISTING TO BE REMOVED AND NEW INSTALLED
EX	EXISTING
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
MW	MICROWAVE OUTLET*
NL	NIGHT LIGHT
PNL	PANEL OR PANELBOARD
REC	RECEPTACLE
REFRIG	REFRIGERATOR
SIGN	BUILDING SIGNAGE*
TL	TWIST LOCK TYPE RECEPTACLE
TR	TAMPER RESISTANT
TV	TELEVISION OUTLET*
TYP	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
WG	WIREGUARD
WP	WEATHERPROOF
•	DOT SHOWN NEXT TO ANY SYMBOL INDICATES FINAL ROUGH-IN TO BE FIELD COORDINATED BY CONTRACTOR WITH ARCHITECTURAL MILLWORK DRAWINGS AND OTHER TRADES.

GENERAL NOTES:

1. ALL EXTERIOR ELECTRICAL EQUIPMENT SHALL BE WEATHERPROOF (NEMA-3R MINIMUM).
2. ASTERISK (*) INDICATES THAT MOUNTING ELEVATION AND/OR LOCATION SHALL BE COORDINATED WITH THE ARCHITECT/OWNER PRIOR TO ROUGH-IN.

ELECTRICAL GENERAL NOTES:

1. ALL CONDUCTORS SHALL BE COPPER, UNLESS OTHERWISE INDICATED.
2. MOUNT ALL RECEPTACLES AT 18" ABOVE FINISHED FLOOR TO THE TOP OF THE COVER PLATE, UNLESS OTHERWISE INDICATED.
3. FOR RECEPTACLES REQUIRING GFCI PROTECTION AND WHERE THE RECEPTACLE IS CONCEALED (I.E. IN THE CASE OF A WATER FOUNTAIN OR VENDING MACHINE INSTALLATION), THE CONTRACTOR SHALL PROVIDE A STANDARD RECEPTACLE WITH A GFCI CIRCUIT BREAKER IN THE ASSOCIATED PANEL. BLANK FACE GFCI TEST/RESET BUTTONS ARE NOT PERMITTED UNLESS EXPLICITLY NOTED ON THESE DRAWINGS.
4. FURNISH AND INSTALL ALL EXTERIOR RECEPTACLES WITH WEATHERPROOF COVERS. EXTERIOR RECEPTACLES SHALL BE GFCI TYPE.
5. FOR ALL EXTERIOR ELECTRICAL EQUIPMENT, FURNISH AND INSTALL WITH NEMA 3R ENCLOSURES MINIMUM. IN THE EVENT THAT THERE IS A DISCREPANCY BETWEEN THIS REQUIREMENT AND INFORMATION LOCATED ELSEWHERE IN THE ELECTRICAL DOCUMENTS, THE CONTRACTOR SHALL BID ACCORDING TO THE MOST STRINGENT REQUIREMENT.
6. VERIFY DOOR SWINGS PRIOR TO INSTALLING LIGHT SWITCHES.
7. GANG ALL SWITCHES SHOWN TO BE INSTALLED AT THE SAME LOCATION UNDER A SINGLE COVER PLATE, UNLESS OTHERWISE INDICATED.
8. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS TO EXIT SIGNS IN CORRIDORS WHERE THERE IS A CHANGE OF CEILING ELEVATION WITHIN 10-FEET OF THE EXIT SIGN. THE CONTRACTOR SHALL LOCATE THESE EXIT SIGNS SUCH THAT THEY ARE ON THE LOWER CEILING AND VISIBLE THROUGHOUT THE CORRIDOR SEGMENT.
9. SEE ARCHITECTURAL DRAWINGS FOR RATED WALL, FLOOR AND CEILING CONSTRUCTION, AND PROVIDE REQUIRED RATED DEVICES AND FIRE SEALANT FOR PENETRATIONS. WHERE NEW DEVICES ARE SHOWN RECESSED IN RATED PARTITIONS, CAREFULLY COORDINATE LOCATIONS AND OFFSETS.
10. COORDINATE WITH OTHER DISCIPLINES IN THE FIELD TO ENSURE THAT THE INTEGRITY OF FIRE RATED CONSTRUCTION IS PRESERVED WHERE PENETRATING RATED WALLS, FLOORS AND CEILINGS.
11. EXPOSED CONDUIT AND BOXES MAY BE USED IN UNFINISHED AREAS (MECHANICAL ROOMS, ELECTRICAL ROOMS, TELECOMMUNICATIONS ROOMS, ETC.).
12. THE CONTRACTOR SHALL ROUTE ALL EXPOSED CONDUIT NEATLY AND TIGHT TO SUPPORTING SURFACES. IN THE EVENT THAT THE OWNER IS NOT SATISFIED WITH WORKMANSHIP, THE CONTRACTOR SHALL MAKE CORRECTIONS AT NO ADDITIONAL COST TO THE OWNER. MC CABLE IS NOT PERMITTED IN EXPOSED AREAS.
13. FOR ALL CONDUIT RUNS SHOWN ON ELECTRICAL DRAWINGS, THE ROUTING IS APPROXIMATE. THE CONTRACTOR SHALL MAKE ROUTING ADJUSTMENTS AS REQUIRED BASED ON FIELD CONDITIONS AND COORDINATION WITH OTHER DISCIPLINES.
14. FOR UNDERGROUND CONDUIT RUNS, PROVIDE ONE (1) PULL BOX FOR EVERY 500 FEET OF CONDUIT LENGTH AND FOR EVERY 360° OF CONDUIT BENDS, UNLESS OTHERWISE INDICATED MORE FREQUENTLY. FOR PULL BOXES LOCATED WITHIN DRIVABLE SURFACES, ENSURE THAT THE PULL BOX IS TRAFFIC RATED. IN THE EVENT THAT A PULL BOX IS REQUIRED ON A UTILITY CONDUIT RUN, ENSURE THAT THE PULL BOX MEETS ALL REQUIREMENTS OF THE RESPECTIVE UTILITY.
15. IN THE EVENT THAT THERE IS A DISCREPANCY IN THE MINIMUM CIRCUIT AMPACITY (MCA) AND/OR THE MAXIMUM OVERCURRENT PROTECTION (MOCP) BETWEEN THE DIVISION 26 AND DIVISION 22/23 SCHEDULES, THE CONTRACTOR SHALL BID ACCORDING TO THE MORE STRINGENT REQUIREMENTS.
16. MECHANICAL, PLUMBING, AND OTHER EQUIPMENT FURNISHED AND INSTALLED BY OTHER DIVISIONS IS SHOWN ON THE ELECTRICAL DRAWINGS FOR CIRCUITING PURPOSES ONLY. THE CONTRACTOR SHALL REFER TO THE OTHER DISCIPLINES' CONSTRUCTION DOCUMENTS FOR EXACT LOCATIONS OF EQUIPMENT PRIOR TO ROUGH-IN OF THE ASSOCIATED ELECTRICAL CIRCUITS, DISCONNECTING MEANS, RECEPTACLES, ETC. AND ADJUST ROUTING AND LOCATIONS ACCORDINGLY.
17. LIGHT FIXTURES, ELECTRICAL OUTLETS AND DISCONNECTING MEANS LOCATED IN MECHANICAL ROOMS AND ATTIC SPACES ARE SHOWN FOR QUANTITY AND CIRCUITING PURPOSES ONLY. THE CONTRACTOR SHALL LOCATE LIGHT FIXTURES TO BEST ILLUMINATE WALKING AND WORKING SURFACES, AND LOCATE OUTLETS AND DISCONNECTING MEANS SUCH THEY ARE EASILY ACCESSIBLE FOLLOWING THE INSTALLATION OF ALL DEVICES AND EQUIPMENT IN THESE SPACES.
18. ALL MECHANICAL EQUIPMENT SHALL HAVE A RECEPTACLE INSTALLED WITHIN 25 FEET. A SINGLE RECEPTACLE CAN ACCOMPLISH THIS PURPOSE FOR MULTIPLE PIECES OF EQUIPMENT. A RECEPTACLE LOCATED BELOW A LAY-IN CEILING ON THE SAME LEVEL AS A PIECE OF MECHANICAL EQUIPMENT COMPLIES WITH THIS REQUIREMENT. IN THE EVENT THAT FIELD CONDITIONS DICTATE THAT A RECEPTACLE CANNOT MEET THIS REQUIREMENT FOR ALL OF THE INTENDED PIECES OF EQUIPMENT IN AN AREA ON THE DRAWINGS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL RECEPTACLES AS REQUIRED.
19. LOAD SIDE CONDUCTOR AND CONDUIT SIZES FROM DISCONNECT SWITCHES, STARTERS AND VFDS TO EQUIPMENT SHALL BE THE SAME AS LINE SIDE CONDUCTORS AND CONDUIT.
20. CAREFULLY COORDINATE ALL ELECTRICAL EQUIPMENT LOCATIONS WITH DUCTWORK, PIPING AND MECHANICAL EQUIPMENT. MAINTAIN ALL CLEARANCES AND SPACES REQUIRED BY THE NEC.
21. WHERE MULTIPLE CIRCUITS ARE COMBINED IN A SINGLE CONDUIT, DERATE CONDUCTORS PER THE NEC.
22. SEE ON-DRAWING SPECIFICATIONS FOR REQUIREMENTS REGARDING OVERSIZING CONDUCTORS FOR 1-POLE, 15- AND 20-AMP CIRCUITS TO REDUCE VOLTAGE DROP. THESE OVERSIZING REQUIREMENTS TAKE PRECEDENCE OVER THE WIRE AND CONDUIT SIZES SHOWN IN THE PANEL SCHEDULES. OVERSIZED CONDUCTORS FOR VOLTAGE DROP ON OTHER CIRCUITS ARE INDICATED IN THE PANEL SCHEDULES.
23. UNLESS INDICATED OTHERWISE, ALL EXIT SIGNS AND THE VOLTAGE SENSING TERMINALS OF ALL EMERGENCY BATTERY PACKS SHALL BE CONNECTED AHEAD OF ALL SWITCHES, RELAYS, SENSORS AND POWER PACKS WITH 2-#12 AND 1-#12 GROUND IN 3/4" CONDUIT.
24. ALL EMERGENCY LIGHTING FIXTURES SHALL BE MARKED SO AS TO BE IDENTIFIED BY VISUAL INSPECTION FOR TESTING PURPOSES. IDENTIFICATION SHALL BE BY ONE 1/2" RED SELF-STICK DOT ON THE VERTICAL PORTION OF THE LOUVER OR ON THE TOP OF THE LENS.
25. THE EXACT LOCATION AND ORIENTATION OF OCCUPANCY AND VACANCY SENSORS SHALL BE AS RECOMMENDED BY THE MANUFACTURER TO OBTAIN COMPLETE COVERAGE. IF THE CONTRACTOR USES A SENSOR THAT HAS A COVERAGE PATTERN DIFFERENT FROM THAT WHICH IS SPECIFIED, AND ADDITIONAL SENSORS ARE REQUIRED TO COMPLETELY COVER A SPACE, THE CONTRACTOR SHALL PROVIDE ADDITIONAL SENSORS AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER. ALL OCCUPANCY SENSOR TIME DELAYS SHALL BE SET TO NO MORE THAN 30 MINUTES.
26. UNLESS INDICATED OTHERWISE, SWITCHES AND OCCUPANCY/VACANCY SENSORS IN A ROOM/SPACE SHALL CONTROL ALL LIGHTING FIXTURES IN THAT ROOM/SPACE.
27. WHERE OUTLETS ARE SHOWN ABOVE A COUNTERTOP OR SIMILAR SURFACE WITH A SPECIFIC MOUNTING HEIGHT, COORDINATE THE MOUNTING HEIGHT WITH BOTH THE SURFACE BELOW AND WITH ALL WALL MOUNTED ARCHITECTURAL ITEMS ABOVE PRIOR TO ROUGH-IN.
28. FOR WALL DEVICES MOUNTED ABOVE ARCHITECTURAL ITEMS, COORDINATE THE MOUNTING HEIGHTS OF THE WALL MOUNTED DEVICES SUCH THAT THEY DO NOT INTERFERE WITH THE ARCHITECTURAL ITEMS.
29. PROVIDE TYPED AS-BUILT PANEL SCHEDULES. HANDWRITTEN PANEL SCHEDULES WILL NOT BE ACCEPTED.
30. FOR ALL EXTERIOR UNDERGROUND CONDUIT AND WIRING, CAREFULLY COORDINATE ALL WORK WITH EXISTING SOIL CONDITIONS AND WITH EXISTING AND NEW UTILITIES IN ORDER TO AVOID CONFLICTS. NOTIFY THE ENGINEER OF RECORD IF ROUTING MUST BE DIFFERENT FROM WHAT IS SHOWN ON THE DRAWINGS.
31. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING THEIR BID IN ORDER TO VERIFY ALL EXISTING CONDITIONS, TO DETERMINE THE FULL EXTENT OF DEMOLITION WORK REQUIRED, AND TO DETERMINE THE FULL EXTENT OF RELOCATION AND MODIFICATION WORK REQUIRED. THE CONTRACTOR IS FULLY RESPONSIBLE FOR COORDINATING ALL ELECTRICAL WORK WITH NEW AND EXISTING PIPING, DUCTWORK, CONDUIT, ETC. NO CHANGE ORDERS WILL BE APPROVED FOR ADDITIONAL WORK DUE TO THE CONTRACTOR NEGLECTING TO VISIT THE SITE AND GATHER ALL NECESSARY INFORMATION.
32. ALL RECEPTACLE AND TOGGLE SWITCH WALL PLATES SHALL BE LABELED WITH THE PANEL AND CIRCUIT NUMBER FROM WHICH THEY ARE FED.
33. FINAL LOCATIONS OF POWER AND LOW-VOLTAGE OUTLETS SHOWN NEAR DESKS, TABLES, COUNTERS, ETC. SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS, FINAL FURNITURE PLANS, AND/OR OWNER AS APPLICABLE PRIOR TO ROUGH-IN. CHANGE ORDERS WILL NOT BE APPROVED FOR FAILURE TO COORDINATE WITH FURNITURE LAYOUT.

GENERAL DEMOLITION NOTES:

1. SCOPE: THE SCOPE OF ELECTRICAL DEMOLITION IS DEFINED IN THE FOLLOWING NOTES AND IN LIMITED FASHION ON THE DRAWINGS; THE DRAWINGS ARE ONLY INTENDED TO BE A PARTIAL REPRESENTATION OF THE ACTUAL DEMOLITION WORK REQUIRED. THESE NOTES ONLY APPLY TO THE AREAS OF RENOVATION. IN GENERAL, THE DEMOLITION SCOPE IS THE REMOVAL OF ALL EXISTING ELECTRICAL SYSTEMS IN THE AREAS OF RENOVATION, EXCEPT AS NOTED OTHERWISE IN THESE NOTES AND ON THE DRAWINGS.
2. RECEPTACLES AND SWITCHES: EXCEPT WHERE INDICATED OTHERWISE, EXISTING RECEPTACLES, SWITCHES AND CIRCUITS LOCATED WITHIN THE AREAS OF RENOVATION SHALL BE REMOVED (INCLUDING POWER POLES). WHERE FLUSH MOUNTED RECEPTACLES AND SWITCHES TO BE REMOVED (NOT REPLACED IN PLACE) OCCUR IN EXISTING WALLS TO REMAIN, REMOVE DEVICE AND COVER PLATE, REMOVE WIRES, AND PROVIDE BLANK COVER PLATE. COVER PLATE SHALL MATCH COVER PLATES FOR NEW WORK. WHERE SURFACE MOUNTED SWITCHES AND RECEPTACLES TO BE REMOVED OCCUR ON EXISTING WALLS TO REMAIN, ALSO REMOVE ASSOCIATED EXPOSED BOXES, CONDUIT AND SURFACE RACEWAY. FOR FLOOR OUTLETS, REMOVE DEVICE AND CUT WIRES, FILL WITH GROUT AND FINISH TO MATCH FLOOR SURFACE.
3. MECHANICAL EQUIPMENT: DISCONNECT EXISTING MECHANICAL EQUIPMENT THAT IS BEING REMOVED, AND REMOVE ALL ASSOCIATED STARTERS, DISCONNECTS, ETC. ABANDON CONDUITS AND CONDUCTORS CONCEALED IN EXISTING WALLS TO REMAIN. WHERE CONDUIT COMES UP FROM FLOOR, CUT CONDUIT FLUSH WITH FLOOR, FILL IT WITH GROUT, AND FINISH TO MATCH FLOOR SURFACE. REMOVE CONDUITS AND CONDUCTORS EXPOSED, CONCEALED ABOVE CEILING, AND EXTERIOR EXPOSED. CONDUIT AND CONDUCTORS TO REMOVED MECHANICAL EQUIPMENT SHALL BE REUSED ONLY WHERE SPECIFICALLY INDICATED. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION. UNLESS SPECIFICALLY INDICATED OTHERWISE, EXISTING WIRING TO EXISTING-TO-REMAIN EQUIPMENT SHALL REMAIN.
4. ELECTRICAL SERVICE: THE EXISTING ELECTRICAL SERVICE SHALL BE RE-USED, BUT SOME DOWNTIME WILL LIKELY STILL BE REQUIRED. ALL ELECTRICAL SERVICE DOWNTIME REQUIRED SHALL BE COORDINATED WITH OWNER AND SHALL BE AT THE OWNER'S CONVENIENCE. DOWNTIME SHALL BE KEPT TO THE MINIMUM. ALL EXTENDED DOWNTIME REQUIRED SHALL BE COORDINATED WITH OWNER AND SHALL BE OUTSIDE OF NORMAL BUSINESS HOURS.
5. PANELBOARDS: REMOVE ALL EXISTING PANELBOARDS, EXCEPT WHERE SPECIFICALLY INDICATED TO REMAIN. FOR EXISTING PANELBOARDS THAT ARE BEING REMOVED BUT NOT REPLACED, DISCONNECT AND ABANDON THE EXISTING CIRCUITS. FOR SURFACE PANELBOARDS, REMOVE THE INCOMING FEEDER, AND PATCH WALL AS NECESSARY. FOR FLUSH PANELBOARDS, CUT THE INCOMING FEEDER AT THE ENTRANCE TO THE PANEL, AND REMOVE THE PANEL INTERIOR. INSTALL A MINIMUM OF SIX (6) SHEET METAL SCREWS IN THE PANEL DOOR TO PREVENT OPENING OF THE DOOR. PROVIDE FINISH WASHERS ON SCREWS. PAINT THE PANEL TO MATCH THE WALL COLOR. WHERE EXISTING PANELBOARDS ARE TO REMAIN UPDATE THE CIRCUIT DIRECTORIES TO REFLECT ALL AS-BUILT/EXISTING CIRCUIT CHANGES, ALL REVISED CIRCUIT DIRECTORIES SHALL BE "TYPED" NOT HANDWRITTEN. CIRCUIT CHANGES INCLUDE, BUT IS NOT LIMITED TO, MOVING EXISTING LOADS IN EXISTING PANELS, REMOVING EXISTING LOADS FROM EXISTING PANELS, ADDING NEW LOADS TO EXISTING PANELS, CHANGING BREAKERS IN EXISTING PANELS, ETC. EXISTING CIRCUITS NO LONGER BEING USED AFTER DEMOLITION WORK SHALL BE MADE "SPARE" AND SHALL BE PLACED IN THE "OFF" POSITION. PROVIDE BLANK PLATES FOR ALL EXISTING CIRCUIT BREAKERS BEING REMOVED. PROVIDE ENGRAVED LABELS FOR ALL UNLABELED PANELBOARDS, WHICH INCLUDES THE NAME OF THE PANEL, VOLTAGE, PHASE, AND WHERE THE PANEL IS FED FROM (PANEL/CIRCUIT).
6. EXTERIOR LIGHTING: EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE, REMOVE ALL EXISTING EXTERIOR BUILDING-MOUNTED AND CANOPY LIGHTING, ALONG WITH ALL ASSOCIATED CONTROLS (TIMECLOCKS, PHOTOSENSORS, ETC.) AND WIRING. ALL EXISTING POLE AND BOLLARD LIGHTING SHALL REMAIN.
7. INTERIOR LIGHTING: REMOVE ALL EXISTING INTERIOR LIGHTING FIXTURES AND CONTROLS, EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE.
8. EMERGENCY LIGHTING: EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE, REMOVE ALL EXISTING EXIT SIGNS, EMERGENCY LIGHTING HEADS AND EMERGENCY BATTERY PACKS. PROVIDE BLANK COVER PLATES AS NECESSARY.
9. CONDUIT: WHERE EXISTING CONDUIT IS EXPOSED DUE TO DEMOLITION OF WALLS, CONDUIT SHALL BE REMOVED, UNLESS INDICATED TO REMAIN OR NECESSARY TO MAINTAIN SERVICE TO EXISTING ITEMS TO REMAIN. WHERE CONDUIT RISES FROM FLOOR TO FEED REMOVED ITEMS, CUT CONDUIT FLUSH WITH FLOOR AND FILL IT WITH GROUT. FINISH TO MATCH FLOOR SURFACE. ALL ACCESSIBLE UNUSED CONDUIT SHALL BE REMOVED; ALL INACCESSIBLE UNUSED CONDUIT SHALL BE ABANDONED. ALL CONDUIT TO NEW DEVICES AND EQUIPMENT SHALL BE NEW, UNLESS NOTED OTHERWISE.
10. WIRING: ALL WIRING TO DEMOLISHED DEVICES AND EQUIPMENT SHALL BE REMOVED, UNLESS NOTED OTHERWISE. ALL EXISTING WIRING TO EXISTING-TO-REMAIN DEVICES AND EQUIPMENT SHALL REMAIN, UNLESS NOTED OTHERWISE. ALL ACCESSIBLE UNUSED WIRING SHALL BE REMOVED; ALL INACCESSIBLE UNUSED WIRING SHALL BE ABANDONED. ALL WIRING TO NEW DEVICES AND EQUIPMENT SHALL BE NEW, UNLESS NOTED OTHERWISE.
11. MAINTAIN CIRCUIT CONTINUITY AS NECESSARY IN ALL DEMOLITION WORK.
12. THE CONTRACTOR SHALL INFORM THE OWNER'S REPRESENTATIVE OF ELECTRICAL EQUIPMENT REMOVED FROM THE BUILDING. IF THE OWNER DESIRES TO RETAIN EQUIPMENT, HE WILL REMOVE IT FROM THE SITE. ALL EQUIPMENT NOT RETAINED BY THE OWNER SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. DISPOSAL OF ALL EQUIPMENT CONTAINING HAZARDOUS MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND THE COST OF DISPOSAL SHALL BE INCLUDED.
13. INFORMATION ON DEMOLITION DRAWINGS DOES NOT INDICATE ALL EXISTING EQUIPMENT AND DEVICES. REFER TO ARCHITECTURAL AND MECHANICAL DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION.
14. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING BID AND SHALL VERIFY ALL DEMOLITION REQUIRED. ADDITIONAL COMPENSATION WILL NOT BE ALLOWED FOR DEMOLITION DUE TO CONTRACTOR NOT VISITING SITE AND DETERMINING FULL SCOPE OF DEMOLITION REQUIRED.
15. SEE THE DEMOLITION FLOOR PLANS FOR ADDITIONAL DEMOLITION REQUIREMENTS. ON THE DEMOLITION FLOOR PLANS AND RISERS, ALL DASHED ITEMS SHALL BE REMOVED AND ALL SOLID ITEMS SHALL REMAIN, UNLESS NOTED OTHERWISE. SOME DEMOLITION ITEMS ARE AFFECTED BY ADD ALTERNATES, AS INDICATED IN THE FLOOR PLANS. NEW WORK FLOOR PLANS MAY CONTAIN ADDITIONAL DEMOLITION INFORMATION IN SOME LOCATIONS.

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TIMMONS GROUP

REVISION DESCRIPTION

DATE

DATE 05/22/2026
DRAWN BY Author
DESIGNED BY CNM
CHECKED BY Checker
SCALE N/A

MILLER PARK POOL
THE CITY OF LYNCHBURG

JOB NO. 57972.002
SHEET NO. E001

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P:\2025.31 Miller Park Pool Renovations\revit\support\Titleblock\57972.002-310L-BD2436-LA.rfa | Plotted on --- | by Jacob Caldwell

ELECTRICAL SPECIFICATIONS:

1. SCOPE OF WORK: THE CONTRACTOR SHALL PROVIDE SUPERVISION, LABOR, MATERIAL, EQUIPMENT, MACHINERY, PLANT AND OTHER ITEMS NECESSARY FOR A COMPLETE AND OPERABLE ELECTRICAL SYSTEM.

   WHERE VARIANCES OCCUR BETWEEN DRAWINGS AND SPECIFICATIONS OR WITHIN EITHER DOCUMENT ITSELF, INCLUDE IN THE CONTRACT PRICE THE ITEM OR ARRANGEMENT OF BETTER QUALITY, GREATER QUANTITY, OR HIGHER COST.

2. GENERAL REQUIREMENTS: VERIFY ALL JOB SITE AND ARCHITECTURAL PLAN DIMENSIONS PRIOR TO INSTALLATION OF ELECTRICAL DEVICES AND EQUIPMENT. REPORT ANY DISCREPANCIES TO THE ARCHITECT AND ENGINEER IMMEDIATELY. CUTTING AND PATCHING OF WALLS, CEILINGS, ROOFS AND FLOORS SHALL BE COMPLETED BY OR CLOSELY COORDINATED WITH THE GENERAL CONTRACTOR.

3. STANDARDS AND CODES: ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW, AND SHALL BE LISTED BY UNDERWRITERS LABORATORIES, INC. THE INSTALLATION SHALL BE IN ACCORDANCE WITH THE 2021 VIRGINIA UNIFORM STATEWIDE BUILDING CODE (USBC); THE 2021 INTERNATIONAL BUILDING CODE (IBC) AS ADOPTED AND MODIFIED BY THE 2021 VIRGINIA CONSTRUCTION CODE (VCC); THE 2021 VIRGINIA ENERGY CONSERVATION CODE (VECC); THE 2021 INTERNATIONAL FIRE CODE (IFC); THE 2020 NFPA-70 (NATIONAL ELECTRICAL CODE, OR NEC); THE 2019 NFPA-72 (NATIONAL FIRE ALARM AND SIGNALING CODE); AND OTHER RELATED CODES AND STANDARDS. THE COMPLETED INSTALLATION SHALL COMPLY WITH THE ADAAG *"AMERICAN WITH DISABILITIES ACT GUIDELINES FOR BUILDINGS AND FACILITIES"*. WORKMANSHIP SHALL MEET THE "STANDARDS OF INSTALLATION" AS PUBLISHED BY THE NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION (NECA).

4. PERMITS AND FEES: THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMITS, BONDS, LICENSES AND INSPECTION CERTIFICATES. THE CONTRACTOR SHALL ALSO PAY INSPECTION FEES AND TAXES AND SHALL FILE PLANS AND PREPARE DOCUMENTS AS REQUIRED TO OBTAIN APPROVALS OF GOVERNMENTAL DEPARTMENTS HAVING JURISDICTION. [***UTILITY CONNECTION CHARGES WILL BE PAID BY THE OWNER. THE CONTRACTOR SHALL INITIATE CONTACT WITH THE UTILITY COMPANY AND THE OWNER WITHIN 14 DAYS OF RECEIVING NOTICE TO PROCEED TO ENSURE PERMANENT POWER WILL BE AVAILABLE TO THE SITE. ANY DELAYS TO THE PROJECT RESULTING FROM LACK OF UTILITY COORDINATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.***]

5. CONDUIT [***(SHOP DRAWINGS REQUIRED)***]: ALL CONDUCTORS SHALL BE INSTALLED IN CONDUIT UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS OR IN THE SPECIFICATIONS. CONDUIT FILL SHALL NOT EXCEED 40% PER NEC. PROVIDE RIGID GALVANIZED STEEL CONDUIT (RGS) OR SCHEDULE 40 PVC CONDUIT UNDERGROUND AND IN CONCRETE SLABS. PROVIDE RGS OR INTERMEDIATE METAL CONDUIT (IMC) WHERE EXTERIOR ABOVE-GRADE. WHERE NOT EXTERIOR, UNDERGROUND OR IN CONCRETE SLABS, PROVIDE ELECTRICAL METALLIC TUBING (EMT) FOR EMPTY CONDUIT RUNS AND STUB-UPS, BRANCH CIRCUITS AND EQUIPMENT FEEDERS; ALL CONDUIT STUBS SHALL HAVE BUSHINGS. SCHEDULE 40 PVC CONDUIT MAY BE RUN FROM CONCRETE SLAB UP TO FIRST OUTLET (BUT NOT BEYOND FIRST OUTLET) ONLY IF CONDUIT IS CONCEALED IN STUD OR CMU WALL AND IF FIRST OUTLET IS NO MORE THAN 48" AFF. PROVIDE GALVANIZED SINGLE STRIP FLEXIBLE CONDUIT, MINIMUM 18" LONG, FOR MOTOR CONNECTIONS. USE PVC JACKETED FLEXIBLE LIQUID-TIGHT CONDUIT TYPE UA FOR MOTOR CONNECTIONS IN WET LOCATIONS. CONDUIT SHALL BE MINIMUM 3/4" [***, EXCEPT SHALL BE MINIMUM 1" WHERE EXTERIOR OR UNDERGROUND OR IN SLAB***]. CONDUIT SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE, FRAMING, JOISTS, ETC. PROVIDE HANGERS, SUPPORTS, FASTENERS, SLEEVES AND SEALS AS REQUIRED BY THE NEC. DO NOT SUPPORT CONDUIT FROM THE ROOF DECK OR SUSPENDED CEILING SYSTEMS. CONDUIT SHALL NOT BE INSTALLED WITHIN SIX (6) INCHES OF ROOF DECK. EXPANSION/DEFLECTION FITTINGS SHALL BE PROVIDED WHERE REQUIRED PER NEC 300.4(H). FOR UNDERGROUND CONDUIT, PROVIDE SEALS WHERE REQUIRED PER NEC 225.27 AND 300.5(G). UNDERGROUND CONDUIT SHALL BE MINIMUM 24" BELOW FINISHED GRADE TO TOP OF CONDUIT, UNLESS NOTED OTHERWISE ON THE DRAWINGS. ALL CONDUIT FITTINGS SHALL BE STEEL, SET SCREW OR COMPRESSION TYPE, AND SHALL BE U.L. LISTED.

   ALL CONDUITS PASSING THROUGH RATED WALLS OR CEILINGS SHALL BE SLEEVED AND PACKED WITH U.L. LISTED SEALANT TO MAINTAIN RATING.

   TYPE AC, MC AND NMC CABLE ARE NOT ALLOWED, EXCEPT TYPE MC CABLE IS PERMITTED FOR LIGHTING FIXTURE WHIPS LESS THAN FIVE (5) FEET IN LENGTH.

6. JUNCTION, OUTLET AND PULL BOXES: PROVIDE JUNCTION, OUTLET AND PULL BOXES FOR WIRING DEVICES, FIXTURES, CONNECTIONS TO EQUIPMENT AND AS REQUIRED BY THE NEC. FOR INTERIOR APPLICATIONS, PROVIDE GALVANIZED STEEL WIRING BOXES, OF THE TYPE, SHAPE, AND SIZE, INCLUDING DEPTH OF BOX, TO SUIT RESPECTIVE LOCATIONS AND INSTALLATION. BOXES SHALL HAVE STAMPED KNOCKOUTS IN BACK AND SIDES. PROVIDE APPROPRIATE PLASTER RINGS AND COVERS AS REQUIRED. PROVIDE GANG BOXES WHERE DEVICES ARE SHOWN GROUPED. FOR EXTERIOR OUTLET BOXES, PROVIDE OUTLET BOX FLUSH WITH EXTERIOR WALL AND PROVIDE APPROPRIATE WEATHERPROOF COVER. EXTERIOR SURFACE MOUNT BOXES SHALL BE NEMA 3R CAST ALUMINUM TYPE WITH THREADED CONDUIT HUBS. [***INGROUND PULL/SPLICE BOXES SHALL BE CONSTRUCTED OF COMPOSITE POLYMER CONCRETE REINFORCED WITH FIBERGLASS. PROVIDE OPEN BOTTOM BOX COMPLETE WITH COVER AND APPROPRIATE LOGO. MINIMUM BOX DIMENSIONS, COVER TYPE AND USE SHALL BE AS NOTED ON DRAWINGS. ALL BOXES ASSOCIATED WITH UTILITY SERVICES SHALL BE PROVIDED AND INSTALLED PER THE PROVIDER ENTITY STANDARDS. ***] [***INSTALL ELECTRICAL BOXES AND FITTINGS AS SHOWN AND AS REQUIRED IN COMPLIANCE WITH NEC AND MANUFACTURER'S RECOMMENDATIONS. ALL JUNCTION/PULL BOX OPENINGS SHALL BE SIDE OR BOTTOM ACCESSIBLE. PROVIDE EACH OUTLET/SPLICE BOX WITH A GROUNDING PIGTAIL. FACTORY MANUFACTURED PIGTAILS SHALL HAVE BOLTED CONNECTIONS TO BOXES. UNLESS NOTED OR DIRECTED OTHERWISE AT INSTALLATION, PLACE OUTLET BOXES AS INDICATED ON ARCHITECTURAL ELEVATIONS AND AS REQUIRED BY LOCAL CODES. FOR OUTLETS INSTALLED ABOVE COUNTERS, MOUNT LONG DIMENSION HORIZONTALLY. REFER TO ARCHITECTURAL ELEVATIONS AND COORDINATE INSTALLATION TO AVOID CONFLICTS WITH BACKSPLASH AND MILLWORK. DO NOT SECURE BOXES TO SUSPENDED CEILING SYSTEM, HVAC DUCTWORK OR PIPING SYSTEMS. ALIGN ADJACENT WALL MOUNTED OUTLET BOXES, UNLESS NOTED OTHERWISE ON THE DRAWINGS. ALL BOXES SHALL BE ACCESSIBLE PER THE NEC. IF A BOX IS REQUIRED ABOVE AN INACCESSIBLE CEILING, COORDINATE WITH THE ARCHITECT AND PROVIDE AN ACCESS PANEL PRIOR TO INSTALLATION. OUTLET BOXES SHALL UTILIZE MOUNTING BRACKETS FOR INSTALLATION IN STUD WALLS AND WHERE FLUSH WITH CEILINGS. BRACKETS SHALL FASTEN ON EACH END. ***]

7. WIRING [***(SHOP DRAWINGS REQUIRED)***]: PROVIDE COPPER CONDUCTORS, XHHW OR XHHW-2 OR THHN OR THWN-2, 600 VOLT, 90 DEGREE C RATED. WIRING SHALL BE COLOR-CODED TO IDENTIFY PHASES, NEUTRAL AND GROUND. [***MATCH EXISTING BUILDING WIRING COLOR-CODING.***] MINIMUM WIRE SIZE, EXCEPT FOR CONTROL WIRING, SHALL BE #12 AWG. FOR 120-VOLT 15 AMP AND 20 AMP BRANCH CIRCUITS, USE MINIMUM 12 AWG UP TO 60 FEET, 10 AWG FOR 61-95 FEET, 8 AWG FOR 96-155 FEET AND 6 AWG FOR BRANCH CIRCUITS LONGER THAN 155 FEET; CONDUCTORS SHALL BE SAME SIZE FOR ENTIRE LENGTH OF RUN, EXCEPT IF ALL OUTLETS ARE IN THE SAME ROOM (1200 SQUARE FEET OR LESS) THE OVERSIZED CONDUCTORS MAY BE RUN ONLY TO THE FIRST OUTLET. FOR 277-VOLT 15 AMP AND 20 AMP BRANCH CIRCUITS, USE MINIMUM 12 AWG UP TO 140 FEET, 10 AWG FOR 141-220 FEET AND 8 AWG FOR BRANCH CIRCUITS LONGER THAN 220 FEET; CONDUCTORS SHALL BE SAME SIZE FOR ENTIRE LENGTH OF RUN. CONDUCTORS 8 AWG AND LARGER SHALL BE STRANDED; CONDUCTORS 10 AWG AND SMALLER SHALL BE SOLID. FOR WIRING APPLICATIONS WHERE MORE THAN SIX (6) CURRENT CARRYING CONDUCTORS ARE RUN IN A SINGLE RACEWAY, DERATE PER NEC 310.15(B)(3)(A). WIRING SHALL BE RUN CONCEALED UNLESS SPECIFICALLY INDICATED OTHERWISE ON THE DRAWINGS. DO NOT INSTALL A SHARED NEUTRAL ON ANY CIRCUIT. FOR LIGHT SWITCHES, INSTALL NEUTRAL CONDUCTOR WHERE REQUIRED BY NEC 404.2(C). ALL TERMINATIONS SHALL BE 75 DEGREES C. FEEDER CONDUCTORS SHALL BE RUN WITHOUT SPLICES. COORDINATE FEEDER TERMINATIONS WITH ASSOCIATED EQUIPMENT LUGS.

8. GROUNDING AND BONDING [***(SHOP DRAWINGS REQUIRED)***]: PROVIDE AN EQUIPMENT GROUNDING SYSTEM INSTALLED TO METALLIC STRUCTURES, ENCLOSURES, RACEWAYS, JUNCTION BOXES, OUTLET BOXES, PULL BOXES, CABINETS, MACHINE FRAMES, PORTABLE EQUIPMENT AND OTHER CONDUCTIVE ITEMS IN CLOSE PROXIMITY TO ELECTRICAL CIRCUITS. ALL BRANCH AND FEEDER CIRCUITS SHALL INCLUDE A GREEN EQUIPMENT GROUNDING CONDUCTOR (EGC). PROVIDE A COPPER GROUND BUS IN ALL PANELBOARDS. [***PROVIDE SYSTEM GROUND IN ACCORDANCE WITH NEC ARTICLE 250, INCLUDING SERVICE BONDING AS REQUIRED IN NEC 250.92.***] [***GROUND RODS SHALL BE INSTALLED BELOW THE PERMANENT MOISTURE LEVEL.***] [***PARTICULAR ATTENTION IS CALLED TO BONDING REQUIREMENTS IN NEC 250.97, 250.98 AND 250.104.***] GROUND CORD-AND-PLUG EQUIPMENT PER THE REQUIREMENTS OF NEC 250.114.

9. IDENTIFICATION [***(SHOP DRAWINGS REQUIRED)***]: [***IDENTIFY CABLES/CONDUCTORS, INCLUDING VOLTAGE, PHASE AND FEEDER OR CIRCUIT NUMBER, ON EACH CABLE/CONDUCTOR IN EACH BOX/ENCLOSURE/CABINET WHERE WIRES OF MORE THAN ONE CIRCUIT OR COMMUNICATION/SIGNAL SYSTEM ARE PRESENT.***] WHEREVER REASONABLY REQUIRED FOR SAFETY, MAINTENANCE AND/OR OPERATIONAL PURPOSES, PROVIDE SELF-ADHESIVE PLASTIC SIGNS FOR IDENTIFICATION, INSTRUCTION OR WARNING ON SWITCHES AND OUTLETS, AS WELL AS OTHER CONTROLS, DEVICES AND ENCLOSURE COVERS. PROVIDE A DANGER SIGN WHEREVER IT IS POSSIBLE FOR PERSONS TO COME INTO CONTACT WITH A VOLTAGE HIGHER THAN 120 VOLTS, AS WELL AS ON CRITICAL SWITCHES AND CONTROLS WHERE UNTIMELY OPERATION COULD BE A SAFETY HAZARD. PROVIDE AN ENGRAVED PLASTIC-LAMINATE LABEL ON EACH MAJOR UNIT OF ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO: [***SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, CONTROL PANELS, RELAY PANELS, CABINETS, ENCLOSURES, TIMECLOCKS, POWER TRANSFER EQUIPMENT, CONTACTORS, VFD'S, STARTERS, DISCONNECT SWITCHES AND ENCLOSED CIRCUIT BREAKERS***]. EQUIPMENT LABELS SHALL INCLUDE WHAT IS REQUIRED IN NEC 408.4(B). [***PROVIDE TRANSFORMER REMOTE DISCONNECT LABELING WHERE REQUIRED BY NEC 450.14.***] [***PROVIDE FIRE ALARM CONTROL PANEL LABELING REQUIRED BY NEC 760.41(B) AND 760.121(B)***]. [***PROVIDE FAULT CURRENT LABELING ON SERVICE EQUIPMENT PER NEC 110.24(A).***] ENCLOSURE TYPES SHALL BE MARKED PER NEC 110.28. WIRING COLOR-CODE KEY SHALL BE READILY AVAILABLE OR PERMANENTLY POSTED PER NEC 200.6(D) AND 210.5. [***PROVIDE SERVICE ENTRANCE LABEL ON SERVICE EQUIPMENT.***]

10. CONNECTIONS TO EQUIPMENT: MAKE FINAL ELECTRICAL CONNECTIONS TO MECHANICAL [***SPECIALTY, LABORATORY AND KITCHEN***] EQUIPMENT. PROVIDE CONDUITS, OUTLET BOXES AND POWER WIRING FROM THE POWER SOURCE TO THE MOTOR OR EQUIPMENT JUNCTION BOX, INCLUDING WIRING THROUGH STARTERS OR SAFETY SWITCHES, IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

11. WIRING DEVICES (SHOP DRAWINGS REQUIRED): WIRING DEVICES SHALL BE HEAVY DUTY SPECIFICATION GRADE. BACK WIRING IS NOT ALLOWED. ALL WIRING DEVICE AND WALL PLATE FINISHES SHALL BE SELECTED BY THE ARCHITECT OR OWNER. TOGGLE SWITCHES SHALL BE TUMBLER TYPE, 20 AMP, GROUNDED, RATED 120/277 VOLT. WHERE MORE THAN ONE SWITCH IS INDICATED IN THE SAME LOCATION, INSTALL THE SWITCHES IN A MULTI-GANG BOX WITH A SINGLE COVERPLATE. EXCEPT WHERE NOTED OTHERWISE ON THE DRAWINGS, RECEPTACLES SHALL BE NEMA 5-20R, GROUNDED. [***SPECIAL PURPOSE, SAFETY TYPE AND GROUND FAULT RECEPTACLES SHALL BE BY SAME MANUFACTURER AS DUPLEX RECEPTACLES.***] GFCI TYPE DUPLEX RECEPTACLES SHALL BE RATED 5 MILLIAMPS, AND SHALL BE READILY ACCESSIBLE WHERE REQUIRED BY NEC 210.8. PROVIDE GFCI DUPLEX RECEPTACLES IN LOCATIONS INDICATED ON THE FLOOR PLANS AND WHERE REQUIRED BY THE NEC. PROVIDE A GFCI RECEPTACLE WITHIN 25 FEET OF ALL EQUIPMENT MOUNTED OUTDOORS AND/OR ON ROOFS. DO NOT UTILIZE FEED THROUGH WIRING FOR ANY RECEPTACLES OR DEVICES REQUIRING GFCI PROTECTION. WIRING DEVICE WALLPLATES SHALL BE **_SATIN STAINLESS STEEL/HIGH IMPACT NYLON/PLASTIC_** [***, COLOR TO MATCH DEVICE COLOR,***] AND SHALL BE BY SAME MANUFACTURER AS WIRING DEVICES. [***WIRING DEVICE WALLPLATES SHALL BE OF COLOR AND MATERIAL TO MATCH EXISTING.***] WEATHERPROOF COVERS SHALL HINGE FROM TOP, SHALL BE LISTED AS WEATHERPROOF WHEN IN USE AND SHALL BE "EXTRA DUTY" WHERE REQUIRED BY NEC 406.9(B)(1), AND RECEPTACLES IN THESE COVERS SHALL BE LISTED AS WEATHER-RESISTANT TYPE.

    MOUNTING HEIGHTS OF ALL WIRING DEVICES SHALL COMPLY WITH CURRENT ACCESSIBILITY STANDARDS AND LOCAL CODES WHERE APPLICABLE. REFER TO ARCHITECTURAL ELEVATIONS FOR COORDINATION OF WIRING DEVICE LOCATIONS. COORDINATE WITH DIMENSIONS OF SPECIALTY ITEMS, EQUIPMENT AND MILLWORK, AND COORDINATE WITH ALL OTHER TRADES TO AVOID INSTALLATION CONFLICTS PRIOR TO ROUGH-IN.

    [***TAMPER-RESISTANT RECEPTACLES SHALL HAVE MECHANICAL SHUTTER MECHANISM, TO PREVENT ACCESS UNLESS A TWO-PRONG OR THREE-PRONG PLUG IS INSERTED - EACH RECEPTACLE SHALL BE STAMPED WITH A "TR" SYMBOL.***]

    WIRING DEVICE MANUFACTURER SHALL BE BRYANT, EATON ARROW/HART, HUBBELL, LEVITON OR PASS & SEYMOUR[***; EXCEPT SLIDE DIMMERS SHALL BE BY LUTRON, LEVITON OR PHILIPS***].

12. FUSES (SHOP DRAWINGS REQUIRED): FUSES SHALL BE CLASS RK1 DUAL ELEMENT TIME DELAY, WITH APPROPRIATE VOLTAGE. FURNISH THREE (3) SPARE FUSES OF EACH TYPE UTILIZED. MANUFACTURER SHALL BE COOPER BUSSMANN, MERSEN OR LITTELFUSE.

13. DISCONNECT SWITCHES (SHOP DRAWINGS REQUIRED): PROVIDE SURFACE-MOUNTED, HEAVY-DUTY, HORSEPOWER-RATED, FUSIBLE OR NON-FUSIBLE AS INDICATED, SAFETY SWITCHES WITH LUGS SUITABLE FOR COPPER OR ALUMINUM CONDUCTORS AND ELECTRO-SILVER PLATED CURRENT CARRYING PARTS, AND WITH EQUIPMENT GROUND BUS WITH APPROPRIATE LUGS. SWITCHES SHALL BE RATED FOR THE VOLTAGE OF THE ASSOCIATED CIRCUIT BEING SERVED. PROVIDE SOLID NEUTRAL CONNECTION VIA INSULATED LUG WHERE APPLICABLE. [***FUSIBLE SWITCHES SHALL BE PROVIDED WITH SPRING-REINFORCED FUSE CLIPS TO REJECT ALL FUSES EXCEPT CLASS R CURRENT LIMITING TYPE; FUSE EACH PHASE.***] SWITCHES SHALL HAVE HINGED DOOR WITH DEFEATABLE INTERLOCK TO PREVENT DOOR FROM BEING OPENED IN "ON" POSITION; OPERATING LEVER ARRANGED FOR PADLOCKING IN THE "OFF" POSITION; ARC QUENCHERS; CAPACITY AND CHARACTERISTICS AS REQUIRED; NON-TEASABLE QUICK-MAKE AND QUICK-BREAK MECHANISM; DEAD FRONT; LINE SIDE SHIELD. [***PROVIDE A SET OF AUXILIARY CONTACTS FOR DISCONNECTS SERVING VFD'S, TO SEND A "DISABLE" SIGNAL TO THE VFD WHEN THE DISCONNECT IS OPENED.***] MANUFACTURER SHALL BE SQUARE D, GENERAL ELECTRIC, EATON OR SIEMENS.

14. MAGNETIC MOTOR STARTERS (SHOP DRAWINGS REQUIRED): PROVIDE FULL VOLTAGE SINGLE-SPEED ACROSS-THE-LINE TYPE, UNLESS OTHERWISE INDICATED. PROVIDE COMBINATION STARTERS WHERE INDICATED, WHICH HAVE INTEGRAL NON-FUSIBLE DISCONNECT SWITCHES (GENERAL DUTY OR HEAVY DUTY AS APPLICABLE), INTEGRAL FUSIBLE DISCONNECT SWITCHES (GENERAL DUTY OR HEAVY DUTY AS APPLICABLE) WITH REJECTION TYPE CLASS R FUSE CLIPS, OR INTEGRAL CIRCUIT BREAKERS AS INDICATED, WITH HINGED DOOR WITH DEFEATABLE INTERLOCK TO PREVENT DOOR FROM BEING OPENED IN ON POSITION, AND WITH HANDLES CAPABLE OF BEING PADLOCKED OFF. PROVIDE INDIVIDUAL 120 VOLT SECONDARY CONTROL TRANSFORMERS OF SUFFICIENT CAPACITY TO OPERATE CONNECTED PILOTS, INDICATING AND CONTROL DEVICES, PLUS 100 PERCENT SPARE CAPACITY, LOCATED WITHIN THE STARTER CASE. PRIMARY VOLTAGE OF CONTROL TRANSFORMER SHALL MATCH THE MOTOR POWER CIRCUIT VOLTAGE AND SHALL BE CONNECTED ON THE SAME CIRCUIT AS THE MOTOR WITH FUSE PROTECTION FOR THE TRANSFORMER. PROVIDE OVERLOAD RELAY WITH COMMON TRIP AND RESET DEVICE. PROVIDE MELTING ALLOY THERMAL OVERLOAD DEVICES IN EACH UNGROUNDED LINE. PROVIDE PHASE LOSS AND PHASE REVERSAL PROTECTION WITH CONTACTS TO DE-ENERGIZE THE STARTER UPON THE LOSS OF ANY PHASE OR REVERSAL OF ANY PHASES. MAKE PROVISIONS FOR FIELD INSTALLATION OF UP TO 3 NO AND 4 NC CONTACTS IN ADDITION TO THE HOLDING INTERLOCK. PROVIDE AUXILIARY CONTACTS, RELAYS, PILOT LIGHTS, SWITCHES AND OTHER CONTROL DEVICES, ETC. AS REQUIRED BY THE SEQUENCE OF CONTROL. COORDINATE COIL VOLTAGE WITH SEQUENCE OF CONTROL. PROVIDE HOA SWITCH AND PILOT LIGHTS. PROVIDE EQUIPMENT GROUND BUS WITH APPROPRIATE LUGS.

    [***TWO-SPEED STARTERS SHALL HAVE ALL OF THE ABOVE FEATURES, PLUS A SPEED SELECTOR SWITCH; COORDINATE NUMBER OF LEADS AND WINDINGS WITH MECHANICAL.***]

    MANUFACTURER SHALL BE SQUARE D, GENERAL ELECTRIC, EATON OR SIEMENS.

15. DISTRIBUTION TRANSFORMERS (SHOP DRAWINGS REQUIRED): TRANSFORMERS SHALL BE DRY-TYPE, SHALL HAVE 80/115/150 DEG. C RISE ABOVE 40 DEG. C AMBIENT, [***SHALL HAVE MINIMUM 4-2.5% FULL CAPACITY PRIMARY TAPS FOR TRANSFORMERS 15 KVA AND LARGER,***] SHALL HAVE VENTILATED HEAVY GAUGE SHEET STEEL ANSI 49 COLORED ENCLOSURE, SHALL BE QUIET TYPE OPERATING AT PUBLISHED ANSI SOUND STANDARDS, AND SHALL HAVE COIL AND CORE ASSEMBLIES MOUNTED ON VIBRATION ISOLATORS SPECIFICALLY DESIGNED TO REDUCE 120 HZ SOUND AND MULTIPLE HARMONICS. ALL INSULATING MATERIALS SHALL MEET NEMA ST-20 STANDARDS AND SHALL BE RATED FOR 220 DEG. C U.L. COMPONENT RECOGNIZED INSULATION SYSTEM. THE MAXIMUM TEMPERATURE AT THE TOP OF THE ENCLOSURE SHALL NOT EXCEED 50 DEG. C RISE ABOVE 40 DEG. C AMBIENT. LINEAR TRANSFORMERS SHALL HAVE ALUMINUM WINDINGS. [***SINGLE OUTPUT NON-LINEAR HARMONIC MITIGATING TRANSFORMERS SHALL HAVE CONTINUOUS COPPER WINDINGS, SHALL HAVE COILS IMPREGNATED WITH NONHYGROSCOPIC THERMOSETTING VARNISH, SHALL HAVE CORES CONSTRUCTED WITH LOW HYSTERESIS AND EDDY CURRENT LOSSES, SHALL SUPPLY 0/30 DEGREE PHASE SHIFT, AND SHALL HAVE ELECTROSTATIC SHIELDS.***] ALL TRANSFORMER EFFICIENCIES SHALL MEET US DEPARTMENT OF ENERGY 2016 STANDARDS. VISIBLY GROUND ALL TRANSFORMER CORES TO ENCLOSURES WITH A FLEXIBLE GROUNDING CONDUCTOR (NO METAL-TO-METAL CONTACT BETWEEN THE CORE AND COIL AND ENCLOSURE OTHER THAN THIS). ALSO PROVIDE BONDING JUMPER SIZED AS REQUIRED BY NEC ON OUTSIDE OF ASSEMBLY. MAKE PRIMARY AND SECONDARY CONNECTIONS WITH A SHORT LENGTH OF WATER-TIGHT FLEXIBLE METAL CONDUIT. PROVIDE TRANSFORMER SIZES AND RATINGS AS INDICATED ON DRAWINGS.

    LOCATE TRANSFORMERS AT LEAST 6" CLEAR FROM WALLS, AND PROVIDE ALL CLEARANCES PER THE NEC. UNLESS OTHERWISE NOTED ON THE DRAWINGS, TRANSFORMERS SHALL BE FLOOR MOUNTED ON CONCRETE HOUSEKEEPING PADS. CONCRETE HOUSEKEEPING PADS SHALL BE MINIMUM SIX (6) INCHES THICK INDOORS AND MINIMUM EIGHT (8) INCHES THICK OUTDOORS. PADS SHALL EXTEND FOUR (4) INCHES BEYOND THE EDGES OF EQUIPMENT (MINIMUM). CONCRETE PADS SHALL BE FORMED WITH 6"X6" #8 WIRE REINFORCEMENT MESH. CHAMFER EDGES AND CORNERS OF CONCRETE FORMS.

    MANUFACTURER SHALL BE SQUARE D, GENERAL ELECTRIC, EATON OR SIEMENS.

16. PANELBOARDS (SHOP DRAWINGS REQUIRED): PANELBOARDS SHALL BE DEAD-FRONT, COPPER BUS, WITH THERMAL MAGNETIC MOLDED CASE CIRCUIT BREAKERS IN ACCORDANCE WITH SCHEDULES SHOWN ON THE DRAWINGS. LOAD CENTER CONSTRUCTION IS NOT ACCEPTABLE. CIRCUIT BREAKERS SHALL BE MOLDED CASE, THERMAL MAGNETIC TYPE, PROVIDED WITH INDIVIDUALLY INSULATED, BRACED, AND BOLTED CONNECTIONS. THE FRONT FACES OF CIRCUIT BREAKERS SHALL BE FLUSH WITH EACH OTHER. TRIPPED INDICATION SHALL BE SHOWN BY THE BREAKER HANDLE TAKING A POSITION BETWEEN ON AND OFF. MAKE PREPARED SPACE PROVISIONS FOR ADDITIONAL BREAKERS SUCH THAT NO ADDITIONAL HARDWARE WILL BE REQUIRED TO ADD BREAKERS. TWO AND THREE POLE BREAKERS SHALL HAVE INTERNAL COMMON TRIPS AND FACTORY EXTERNAL HANDLE. ALL CIRCUIT BREAKERS SHALL BE PROVIDED WITH AIC BRACING EQUAL TO OR GREATER THAN THAT OF THE PANELBOARD SHORT CIRCUIT RATING. SERIES RATED BREAKERS ARE NOT ALLOWED. WHERE NON-INSTANTANEOUS TRIP BREAKERS ARE USED, FOLLOW NEC 240.87. FIRE ALARM CIRCUIT BREAKERS SHALL BE RED AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT".

    PROVIDE PANELBOARDS WITH SHEET STEEL ENCLOSURES, NEMA TYPE AS SCHEDULED, MINIMUM 16-GAUGE NOMINAL THICKNESS. PANELBOARDS 600 AMPS AND BELOW PROVIDE FRONTS WITH HINGED DOOR IN DOOR TYPE, INTERIOR HINGED TRIM AND FLUSH LOCK AND KEY. ALL PANELBOARD ENCLOSURES SHALL BE KEYED ALIKE AND SHALL MATCH THE OWNER'S STANDARD KEY SYSTEM WHERE APPLICABLE. ENCLOSURES SHALL BE RECESSED OR SURFACE MOUNTED AS SCHEDULED. ENCLOSURES SHALL BE FABRICATED BY THE SAME MANUFACTURER AS PANELBOARDS INTERIORS. MULTI-SECTION PANELBOARDS SHALL HAVE THE SAME PHYSICAL DIMENSIONS AND SHALL BE PROVIDED WITH FEED-THRU TYPE LUGS IN SECTION 1. PROVIDE FOUR (4) 1" EMPTY CONDUITS WITH PULL STRINGS TO THE NEAREST ACCESSIBLE CEILING SPACE FOR ALL RECESSED PANELBOARDS.

    PROVIDE TYPED, FRAMED CIRCUIT DIRECTORY CARDS AND CLEAR PLASTIC COVERING UPON COMPLETION OF WORK. DIRECTORY CARD SHALL BE OF SUPER HEAVY-WEIGHT INDEX CARD STOCK, 110 LB, WHITE. DIRECTORY SHALL INCLUDE TYPE OF LOAD (IE: RECEPTACLES, LIGHTING, EF-1, ETC.) AND LOCATION (IE: ROOM 102, OFFICE, ETC.) ROOM NUMBER SHALL BE IDENTIFIED AS THE ACTUAL ROOM NUMBER ASSIGNED TO THE SPACE AND NOT THE ROOM NUMBER IDENTIFIED ON THE PLANS. CIRCUITS WITH SHUNT TRIP SHALL BE IDENTIFIED WITH THE CONTROL CIRCUIT OPERATING THE SHUNT TRIP (IE: KITCHEN HOOD NO. 2). SHUNT TRIP BREAKERS WITH COMMON TRIP CIRCUIT SHALL BE GROUPED TOGETHER IN THE PANELBOARD (IE: CIRCUITS 1, 3, & 5).

    ALL PANELBOARDS SHALL BE INSTALLED WITH MINIMUM REQUIRED FORWARD AND HORIZONTAL WORKING CLEARANCES PER THE NEC. THERE SHALL BE NO EQUIPMENT OTHER THAN CONDUIT, CONDUCTORS AND OTHER APPURTENANCES RELATING TO THE ELECTRICAL INSTALLATION LOCATED WITHIN THE FOOTPRINT OF THE PANELBOARD AND EXTENDING UPWARDS TO THE STRUCTURE ABOVE.

    MANUFACTURER SHALL BE SQUARE D, GENERAL ELECTRIC, EATON OR SIEMENS.

ELECTRICAL SPECIFICATIONS (CONT.):

17. SERVICE ENTRANCE SWITCHBOARD (SHOP DRAWINGS REQUIRED): THE UL 891 SWITCHBOARD SHALL BE FACTORY ENGINEERED, DESIGNED AND ASSEMBLED EQUIPMENT APPROVED FOR SERVICE ENTRANCE. BUS SHALL BE COPPER WITH SEPARATE GROUND AND NEUTRAL BARS. PROVIDE SECTIONS AS INDICATED ON THE DRAWINGS. WHERE INDICATED, PROVIDE INTEGRAL METER WITH DIGITAL READOUT TO MEASURE, AT A MINIMUM, FREQUENCY, POWER FACTOR, VOLTAGE (LINE-LINE AND LINE-NEUTRAL), CURRENT FOR EACH PHASE, INSTANTANEOUS AND PEAK DEMAND KW, AND CUMULATIVE KWH. CIRCUIT BREAKERS SHALL BE CONVENTIONAL THERMAL MAGNETIC MOLDED CASE BREAKERS, UNLESS NOTED OTHERWISE, WITH SYMMETRICAL INTERRUPTING RATINGS AS INDICATED IN THE SCHEDULE. DISTRIBUTION SECTION CIRCUIT BREAKERS SHALL BE **_GROUP/INDIVIDUALLY_** MOUNTED. SERIES RATING IS NOT ACCEPTABLE. WHERE NON-INSTANTANEOUS TRIP BREAKERS ARE USED, FOLLOW NEC 240.87. EMPTY SPACES SHALL BE FULLY BUSSED WITH HARDWARE FOR FUTURE BREAKERS.

    MANUFACTURER SHALL BE SQUARE D, GENERAL ELECTRIC, EATON OR SIEMENS.

18. SURGE PROTECTIVE DEVICES (SPD) (SHOP DRAWINGS REQUIRED):

    A. SPD EQUIPMENT (INCLUDING TRANSIENT VOLTAGE SURGE SUPPRESSORS [TVSS]) SHALL BE LISTED AND LABELED PER ANSI/U.L. 1449 3RD EDITION, AND SHALL BE TESTED AND DEMONSTRATE SUITABILITY FOR APPLICATION WITHIN ANSI/IEEE C62.41 CATEGORY C, B AND A ENVIRONMENTS.

    B. SPD SHALL BE MANUFACTURED BY THE SAME MANUFACTURER AS THE PANELBOARDS.

    C. THE SPD MANUFACTURER SHALL PROVIDE UNLIMITED FREE REPLACEMENT OF THE ENTIRE SPD FOR ALL INOPERABLE SPD UNITS DURING THE WARRANTY PERIOD.

    D. SPD SHALL BE GUARANTEED BY THE INSTALLING CONTRACTOR AND SURGE SUPPRESSION MANUFACTURER TO BE FREE OF DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF NOT LESS THAN 5 YEARS FROM THE DATE OF SUBSTANTIAL COMPLETION OF THE SYSTEM FOR WHICH THE SUPPRESSOR IS INSTALLED. THE WARRANTY SHALL PROVIDE FOR A COMPLETE REPLACEMENT OF SPD IN ORDER TO EXPEDITE SERVICE.

    E. SPD UNIT SHALL INCORPORATE THERMALLY PROTECTED METAL-OXIDE VARISTORS (MOVS) AS THE CORE SURGE SUPPRESSION COMPONENT FOR THE SERVICE ENTRANCE AND ALL OTHER DISTRIBUTION LEVELS. THE SYSTEM SHALL NOT UTILIZE SILICON AVALANCHE DIODES, SELENIUM CELLS, AIR GAPS, OR OTHER COMPONENTS THAT MAY CROWBAR THE SYSTEM VOLTAGE LEADING TO SYSTEM UPSET OR CREATE ANY ENVIRONMENTAL HAZARDS.

    F. PD UNIT MUST PROTECT ALL MODES (L-N, L-G, L-L, N-G) OF THE ELECTRICAL SYSTEM BEING UTILIZED.

    G. SPD UNIT SHALL HAVE A 20KA NOMINAL DISCHARGE CURRENT.

    H. SPD UNIT SHALL BE INSTALLED INTEGRALLY IN THE PANELBOARDS INDICATED ON THE DRAWINGS. SPD UNITS IN SWITCHBOARDS SHALL HAVE AN INTEGRAL DISCONNECT SWITCH. THE COMPLETE [***SWITCHBOARD AND***] PANELBOARD, INCLUDING THE SPD, SHALL BE UL LISTED.

    I. WHERE SPD'S ARE INDICATED ON THE DRAWINGS AS BEING INTEGRAL TO A PIECE OF ELECTRICAL GEAR, IT SHALL BE THE CONTRACTOR'S OPTION TO PROVIDE AN EXTERNAL SPD INSTEAD, LOCATED AS CLOSELY AS POSSIBLE TO THE GEAR BEING PROTECTED AND IN A NEMA ENCLOSURE APPROPRIATE FOR THE INSTALLATION ENVIRONMENT. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE TO ENSURE THAT THERE IS SUFFICIENT WALL SPACE FOR THE EXERNAL SPD, AS THE EXTERNAL SPD IS HIS OPTION - CHANGE ORDERS WILL NOT BE APPROVED DUE TO THE CONTRACTOR NOT COORDINATING THIS.

    J. SPD UNITS (EXCEPT THOSE IN SWITCHBOARDS) SHALL BE SERVED WITH A DEDICATED 3-POLE 60-AMP CIRCUIT BREAKER IN THE GEAR BEING SERVED AND (5) #6 AWG MINIMUM STRANDED LOW IMPEDANCE CONNECTION CABLE TO THE BREAKER, UNLESS THE MANUFACTURER RECOMMENDS DIFFERENTLY. THE CONDUCTORS SERVING SPD UNITS SHALL BE TWISTED TOGETHER TO REDUCE THE SPD SYSTEM INPUT IMPEDANCE, AND SHALL BE KEPT AT THE MINIMUM LENGTH. SPD UNITS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PRACTICES AND IN COMPLIANCE WITH NEC REQUIREMENTS. MEASURED IMPEDANCE SHALL NOT BE HIGHER THAN 5 OHMS ON THE GROUND FOR THE SERVICE ENTRANCE SPD DEVICE. WHERE EXTERNAL, CLOSE NIPPLE THE SPD TO THE RESPECTIVE GEAR BEING PROTECTED.

    K. SPD UNIT SHALL MEET ANSI/U.L. VOLTAGE PROTECTION RATING (VPR) OF (MAXIMUM): [***900V (L-N, L-G, N-G) AND 1200V (L-L) FOR 120/208V; 1200V (L-G AND N-G), 1500V (L-N) AND 2000V (L-L) FOR 277/480V. MAXIMUM SURGE CURRENT RATINGS SHALL BE 300KA PER PHASE/150KA PER MODE FOR SERVICE ENTRANCE, 160KA PER PHASE/80KA PER MODE FOR DISTRIBUTION PANELS, AND 120KA PER PHASE/60KA PER MODE FOR BRANCH PANELS.***] MAXIMUM CONTINUOUS OPERATING VOLTAGE (MCOV) SHALL BE 125% MINIMUM OF NOMINAL VOLTAGE FOR 120/208V, AND 115% MINIMUM OF NOMINAL VOLTAGE FOR 277/480V; MCOV SHALL BE TESTED VALUE.

SPD UNIT SHALL HAVE POSITIVE STATUS MONITORS FOR EACH PHASE.

19. LIGHTING (SHOP DRAWINGS REQUIRED): PROVIDE LIGHTING FIXTURE WORK AS SHOWN, SCHEDULED AND SPECIFIED. MANUFACTURERS SHALL BE AS INDICATED ON THE DRAWINGS OR EQUAL. FIXTURES SHALL BE COMPLETE WITH REQUIRED SOCKETS, WIRING, [***POLES,***] GLASSWARE, REFLECTORS, HANGERS, FITTINGS AND MOUNTING TRIM. FIXTURES SHALL BE CLEANED AND COMPLETELY LAMPED. PROVIDE PROPER TRIM, FRAMES, MOUNTING DEVICES, CONFIGURATION AND ACCESSORIES REQUIRED TO PROPERLY INSTALL FIXTURES IN THE BUILDING CONSTRUCTION. LIGHTING FIXTURES SHALL CONFORM TO APPLICABLE U.L. STANDARDS AND SHALL BE U.L. OR ETL LISTED. EMERGENCY LIGHTING FIXTURES SHALL CONFORM TO THE REQUIREMENTS OF NFPA 101, NFPA 70 (NEC) AND SHALL BE UL924 COMPLIANT.

    CATALOG NUMBERS OF FIXTURES SCHEDULED ARE TO ESTABLISH A TYPE OF FIXTURE, NOT TO DETERMINE A METHOD OF MOUNTING. VERIFY CEILING CONSTRUCTION BEFORE ORDERING FIXTURES, AND PROVIDE MOUNTING TRIM AND HARDWARE SUITABLE FOR THE CEILING FINISH IN WHICH FIXTURE IS INSTALLED. [***SUPPORT RECESSED DOWNLIGHT FIXTURES INSTALLED IN LAY-IN CEILINGS BY MEANS OF HANGER BARS EXTENDING ACROSS THE MAIN CEILING SUPPORT MEMBERS.***] SUPPORT ALL CEILING MOUNTED LUMINAIRES THAT MATCH THE SIZE OF THE LAYOUT OF THE CEILING GRID FROM THE BUILDING STRUCTURAL FRAMING MEMBERS OR THE CEILING FRAMING SYSTEM UTILIZING CONDUIT STEMS, FIXTURE STUDS, SUPPORT CLIPS, STEEL RODS OR BAR HANGERS. IF THE CEILING FRAMING SYSTEM IS USED FOR SUPPORT, INSTALL A MINIMUM OF TWO CEILING SUPPORT SYSTEM RODS OR WIRES FOR EACH LUMINAIRE (ON DIAGONALLY OPPOSITE CORNERS OF THE FIXTURE). LOCATE NOT MORE THAN 6 INCHES FROM FIXTURE CORNERS. INSTALL RECESSED LAY-IN TYPE FIXTURES SO THAT THE LENS HOUSING MAY BE EASILY OPENED AND SO THAT THE FIXTURES MAY BE REMOVED AND RELOCATED WITHOUT FORCING THE FIXTURES. COORDINATE LIGHTING LAYOUT WITH CEILING LAYOUT AND FINISH BEFORE CEILING GRID IS INSTALLED. LENS TYPE RECESSED 1X4, 2X2 AND 2X4 FIXTURES SHALL HAVE A MINIMUM 0.125" THICK ACRYLIC LENS WITH 7.8 OZ./SQ. FT. MINIMUM WEIGHT. HOUSINGS FOR LIGHTING FIXTURES INSTALLED OUTDOORS OR IN WET LOCATIONS SHALL BE ALUMINUM OR STAINLESS STEEL AND SHALL BE U.L. LISTED FOR INSTALLATION IN WET LOCATIONS. FINAL AIMING OF ADJUSTABLE FLOOD FIXTURES SHALL BE DONE AT NIGHT AND SHALL BE APPROVED BY THE ARCHITECT AND OWNER.

    ADDITIONAL REQUIREMENTS FOR LED LUMINAIRES:
    A. PROVIDE LED LIGHTING FIXTURES THAT COMPLY WITH THE DESIGN LIGHTS CONSORTIUM (DLC) STANDARDS AND ARE DLC LISTED.
    B. COLOR TEMPERATURE SHALL BE 4000K WITH MINIMUM CRI OF 80, UNLESS INDICATED OTHERWISE.
    C. LED'S SHALL BE BINNED WITHIN A MAXIMUM THREE-STEP MACADAM ELLIPSE TO ENSURE COLOR CONSISTENCY AMONGST LUMINAIRES OF THE SAME TYPE.
    D. MERCURY-FREE, LEAD-FREE, ROHS COMPLIANT.
    E. COMPLIANT WITH FCC 47 CFR PART 15 NON-CONSUMER RFI/EMI STANDARDS.
    F. LIGHT OUTPUT SHALL BE MEASURED USING THE ABSOLUTE PHOTOMETRY METHOD FOLLOWING IES LM-79 AND LM-80 REQUIREMENTS AND GUIDELINES.
    G. LUMINAIRES SHALL MAINTAIN AT LEAST 70% LUMEN OUTPUT (L70) FOR A MINIMUM OF 50,000 HOURS.
    H. LUMEN OUTPUT SHALL NOT DEPRECIATE MORE THAN 20% AFTER 20,000 HOURS OF USE.
    I. THERMALLY DESIGNED TO NOT EXCEED THE MAXIMUM JUNCTION TEMPERATURE OF THE LED FOR THE AMBIENT TEMPERATURE OF THE LOCATION IN WHICH THE LUMINAIRE IS TO BE INSTALLED. RATED CASE TEMPERATURE SHALL BE SUITABLE FOR OPERATION IN THE AMBIENT TEMPERATURES TYPICALLY FOUND IN THE INTENDED INSTALLATION. EXTERIOR LUMINAIRES SHALL BE CAPABLE OF OPERATING IN AMBIENT TEMPERATURES TYPICALLY FOUND IN THE INTENDED INSTALLATION. EXTERIOR LUMINAIRES SHALL BE CAPABLE OF OPERATING IN AMBIENT TEMPERATURES OF -20 DEG. F TO 122 DEG F (-29 DEG. C TO 50 DEG. C).
    J. LUMINAIRES SHALL OPERATE NORMALLY FOR INPUT VOLTAGE FLUCTUATIONS OF PLUS OR MINUS 10%.
    K. MAXIMUM TOTAL HARMONIC DISTORTION (THD) OF 10% AT FULL INPUT POWER AND ACROSS SPECIFIED VOLTAGE RANGE.
    L. ALL CONNECTIONS TO LUMINAIRES SHALL BE REVERSE-POLARITY PROTECTED AND PROVIDE HIGH VOLTAGE PROTECTION IN THE EVENT THAT CONNECTIONS ARE REVERSED OR SHORTED DURING INSTALLATION.
    M. THE FAILURE OF ONE INDIVIDUAL LED SHALL NOT AFFECT THE OPERATION OF THE REMAINING LED'S IN THE LUMINAIRE.

    ALL LIGHTING DRIVERS SHALL COMPLY WITH NEMA 410 FOR INRUSH CURRENT.

    REQUIREMENTS FOR LED DRIVERS:
    A. UNLESS SPECIFICALLY INDICATED OTHERWISE, SHALL BE OF THE 0-10V DIMMING TYPE DOWN TO 10% LIGHT LEVEL. THE PERFORMANCE CURVES FOR THE 0-10V CONTROL AND THE 0-10V DRIVERS SHALL NOT BOTH BE LOGARITHMIC. DIMMING SHALL OCCUR DOWN TO THE MINIMUM LEVEL WITH NO VISIBLE FLICKER OR "POPCORN EFFECT". "POPCORN EFFECT" IS WHEN THE LUMINAIRE IS ON A PRESET DIMMED LEVEL, AND THE LED'S GO TO 100% PRIOR TO RETURNING TO THE PRESET LEVEL WHEN POWER IS RETURNED TO THE FIXTURE.
    B. SHALL HAVE RATED LIFE OF MINIMUM 50,000 HOURS.
    C. SHALL HAVE MINIMUM POWER FACTOR OF 0.9 AND MAXIMUM CREST FACTOR OF 1.5 AT FULL INPUT POWER AND ACROSS SPECIFIED VOLTAGE RANGE.
    D. SHALL OPERATE NORMALLY FOR INPUT VOLTAGE FLUCTUATIONS OF PLUS OR MINUS 10%.
    E. SHALL HAVE MAXIMUM TOTAL HARMONIC DISTORTION (THD) OF 10% AT FULL INPUT POWER AND ACROSS SPECIFIED VOLTAGE RANGE.
    F. SHALL HAVE POLARIZED QUICK-DISCONNECTS FOR WIRING CONNECTIONS FOR FIELD MAINTENANCE.
    G. SHALL HAVE BUILT-IN FUSE PROTECTION, WITH ALL POWER SUPPLY OUTPUTS EITHER FUSE PROTECTED OR POLYMERIC POSITIVE TEMPERATURE COEFFICIENT (PTC)-PROTECTED PER CLASS 2 UL LISTING.
    H. SHALL DEMONSTRATE NO VISIBLE CHANGE IN LIGHT OUTPUT WITH A VARIATION OF PLUS OR MINUS 10% CHANGE IN LINE-VOLTAGE INPUT.
    I. ALL DIMMABLE LED DRIVERS OF THE SAME MANUFACTURER FAMILY/SERIES SHALL TRACK EVENLY ACROSS MULTIPLE LIGHT FIXTURES AT ALL LIGHT LEVELS.

    0-10V DIMMING DRIVERS SHALL COMPLY WITH IEC 60929. FOR 0-10V DIMMING CONTROLS, THE PERFORMANCE CURVES FOR THE 0-10V CONTROL AND THE 0-10V DRIVERS SHALL NOT BOTH BE LOGARITHMIC. ALL DRIVERS SHALL HAVE TOTAL HARMONIC DISTORTION OF LESS THAN 10% AT FULL OUTPUT.

20. EMERGENCY LIGHTING POWER SUPPLY (SHOP DRAWINGS REQUIRED): EMERGENCY LIGHTING SHALL BE PROVIDED BY USING A STANDARD LUMINAIRE EQUIPPED WITH A UL LISTED, SELF-CONTAINED, MODULAR, BATTERY INVERTER UNIT COMPLYING WITH UL 924. THE UNIT SHALL BE MOUNTED WITHIN THE LIGHTING FIXTURE BODY OR LISTED FOR INSTALLATION ON TOP OF OR REMOTE FROM THE FIXTURE. THE BATTERY INVERTER UNIT SHALL CONSIST OF A HIGH-TEMPERATURE, MAINTENANCE-FREE, NICKEL CADMIUM BATTERY, CHARGER AND ELECTRONIC CIRCUITRY. THE AC DRIVER OPERATION SHALL BE DELAYED FOR APPROXIMATELY 3 SECONDS BY THE CIRCUITRY TO PREVENT FALSE TRIPPING OF THE AC DRIVER. A SOLID-STATE CHARGING LED INDICATOR LIGHT TO MONITOR THE CHARGER AND BATTERY AND A SINGLE-POLE TEST SWITCH SHALL BE PROVIDED AND MOUNTED SUCH THAT THE LIGHT AND SWITCH ARE VISIBLE AND ACCESSIBLE WITHIN THE FIXTURE WITHOUT ENTERING THE CEILING SPACE. WHERE UNITS ARE MOUNTED OUTSIDE THE BUILDING ENVELOPE, PROVIDE COLD-WEATHER RATED UNITS. UNITS SHALL BE BY PHILIPS BODINE, LITHONIA, IOTA OR APPROVED EQUAL. ALL EGRESS LIGHTING FIXTURES SHALL HAVE SELF DIAGNOSTIC TEST FEATURE. COORDINATE DIRECTIONAL ARROWS ON EXIT SIGNS WITH THE ARCHITECTURAL EGRESS PLAN.

    EMERGENCY LED DRIVERS SHALL HAVE LUMEN OUTPUTS OR WATTAGES AS INDICATED IN THE LIGHTING FIXTURE SCHEDULE.

    SURFACE METAL RACEWAYS (SHOP DRAWINGS REQUIRED): PROVIDE SURFACE METAL RACEWAYS WHERE SPECIFICALLY INDICATED ON THE DRAWINGS OR WHERE REQUIRED BY GENERAL NOTES. ALL RACEWAYS SHALL BE TYPE SR1 OR SR2 AS SPECIFIED. TYPE SR1 RACEWAY: ONE-PIECE TYPE WITH SINGLE COMPARTMENT, LENGTHS AS NECESSARY; PROVIDE NOMINAL 3/4" WIDE, DEPTH AS REQUIRED, WITH SNAP ON COVER. TYPE SR2 RACEWAY: TWO-PIECE TYPE WITH SINGLE COMPARTMENT, LENGTH AS NECESSARY; PROVIDE NOMINAL 1-1/4" X 7/8" WITH FLUSH, SNAP ON COVER. MAKE CHANGES IN DIRECTION OF RACEWAY RUNS WITH PROPER FITTINGS SUPPLIED BY THE RACEWAY MANUFACTURER. FIELD BENDS OF RACEWAY SECTIONS WILL NOT BE PERMITTED. PROPERLY SUPPORT AND ANCHOR RACEWAYS FOR THE ENTIRE LENGTH BY STRUCTURAL MATERIALS. RACEWAYS SHALL NOT SPAN ANY SPACE UNSUPPORTED. USE BOXES SUPPLIED BY THE RACEWAY MANUFACTURER WHEREVER JUNCTION, PULL OR DEVICE BOXES ARE REQUIRED. STANDARD ELECTRICAL 'HANDY' BOXES, ETC. SHALL NOT BE PERMITTED FOR USE WITH SURFACE RACEWAY INSTALLATIONS. TYPE SR1 SURFACE RACEWAY SHALL BE USED FOR ALL LINE VOLTAGE WIRING. TYPE SR2 RACEWAY SHALL BE USED FOR ALL DATA AND AUDIO-VISUAL WIRING.

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DESIGNED BY	CNM
CHECKED BY	Checker
SCALE	N/A

MILLER PARK POOL
THE CITY OF LYNCHBURG

JOB NO. 57972.002
SHEET NO. E002

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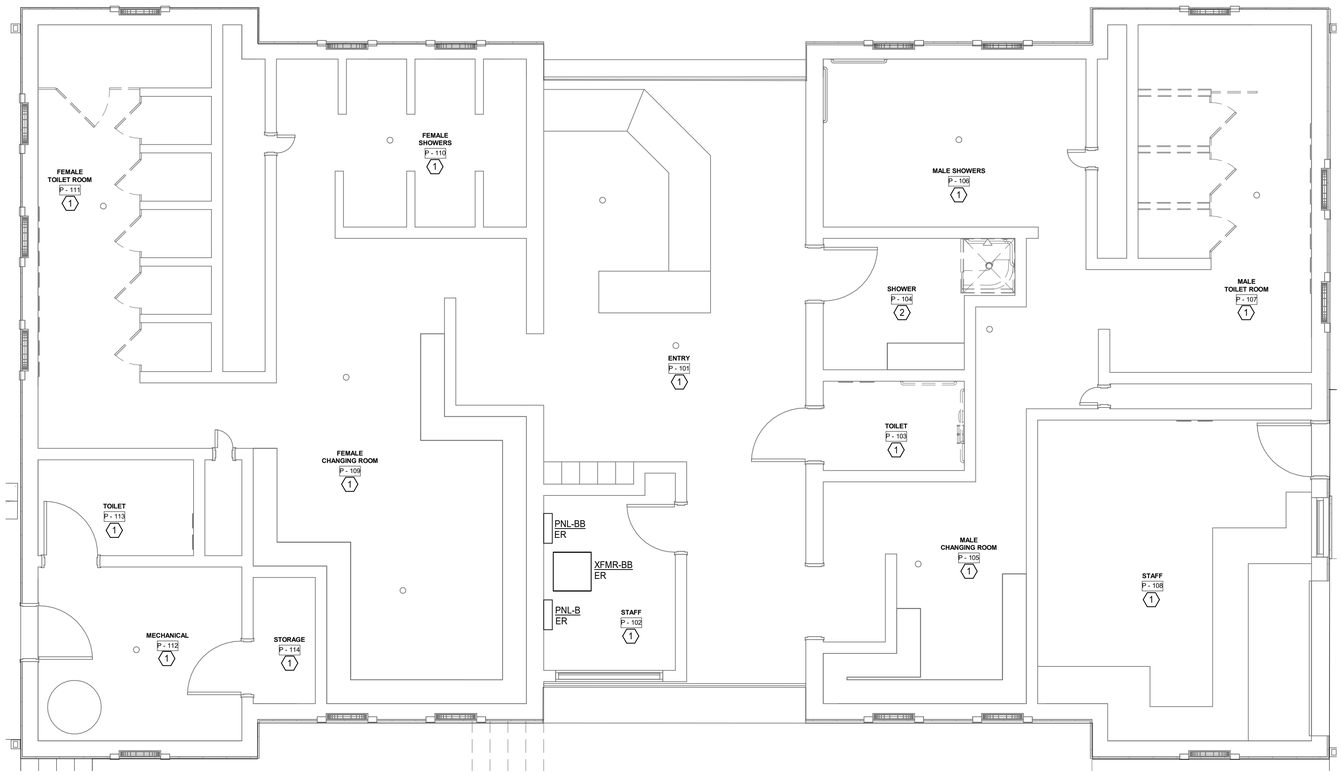

1 **ADD ALT - DEMOLITION FLOOR PLAN - POOLHOUSE - ELECTRICAL**
Scale: 1/4" = 1'-0"

GENERAL SHEET NOTES:

1. SEE SHEET E001 FOR ELECTRICAL LEGEND, GENERAL DEMOLITION NOTES, AND GENERAL NOTES.
2. SEE SHEET E002 FOR ELECTRICAL SPECIFICATIONS.
3. SEE SHEETS EL101 FOR NEW WORK LIGHTING PLANS.
4. SEE SHEETS EP101 FOR NEW WORK POWER PLANS.

DEMOLITION KEYNOTES:

1. DEMOLISH ALL LIGHTING FIXTURES AND CONTROLS IN THIS SPACE INCLUDING ASSOCIATED CONDUIT AND CIRCUITRY BACK TO SOURCE UON.
2. LIGHTING FIXTURES, CONTROLS, ELECTRICAL DEVICES, AND ELECTRICAL EQUIPMENT IN THIS SPACE SHALL REMAIN AS IS.

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MILLER PARK POOL
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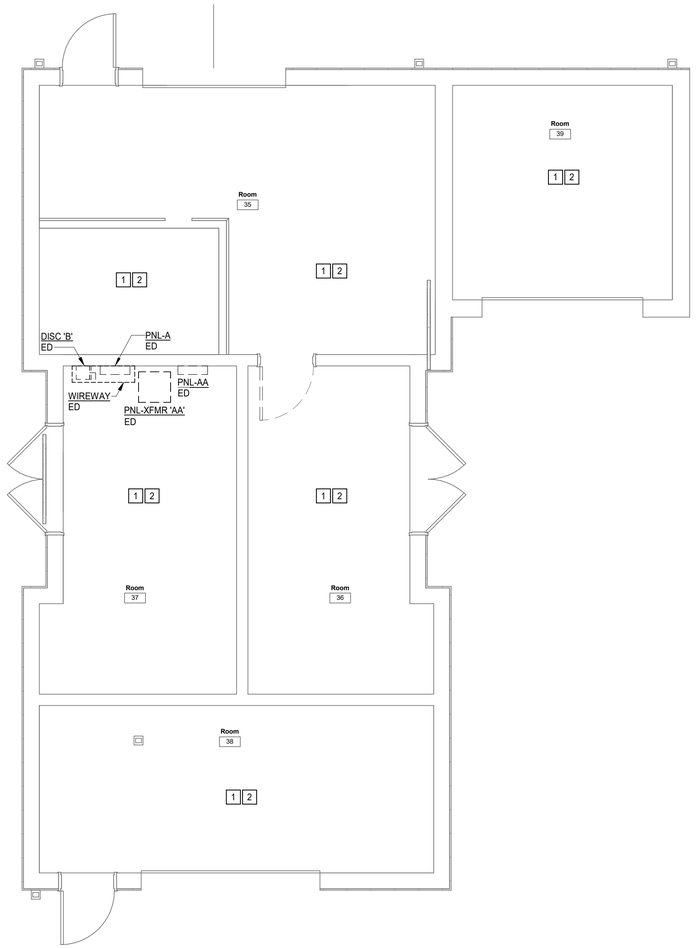

1 **DEMOLITION FLOOR PLAN - MAINTENANCE BUILDING - ELECTRICAL**
Scale: 1/4" = 1'-0"

GENERAL SHEET NOTES:

1. SEE SHEET E001 FOR ELECTRICAL LEGEND, GENERAL DEMOLITION NOTES, AND GENERAL NOTES.
2. SEE SHEET E002 FOR ELECTRICAL SPECIFICATIONS.
3. SEE SHEETS EL101 FOR NEW WORK LIGHTING PLANS.
4. SEE SHEETS EP101 FOR NEW WORK POWER PLANS.

DEMOLITION KEYNOTES:

1. DEMOLISH ALL LIGHTING FIXTURES AND CONTROLS IN THIS SPACE INCLUDING ASSOCIATED CONDUIT AND CIRCUITRY BACK TO SOURCE UON.
2. DEMOLISH ALL ELECTRICAL AND TELECOMMUNICATIONS DEVICES AND EQUIPMENT IN THIS SPACE INCLUDING ASSOCIATED CONDUIT AND CIRCUITRY BACK TO SOURCE UON.

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MILLER PARK POOL
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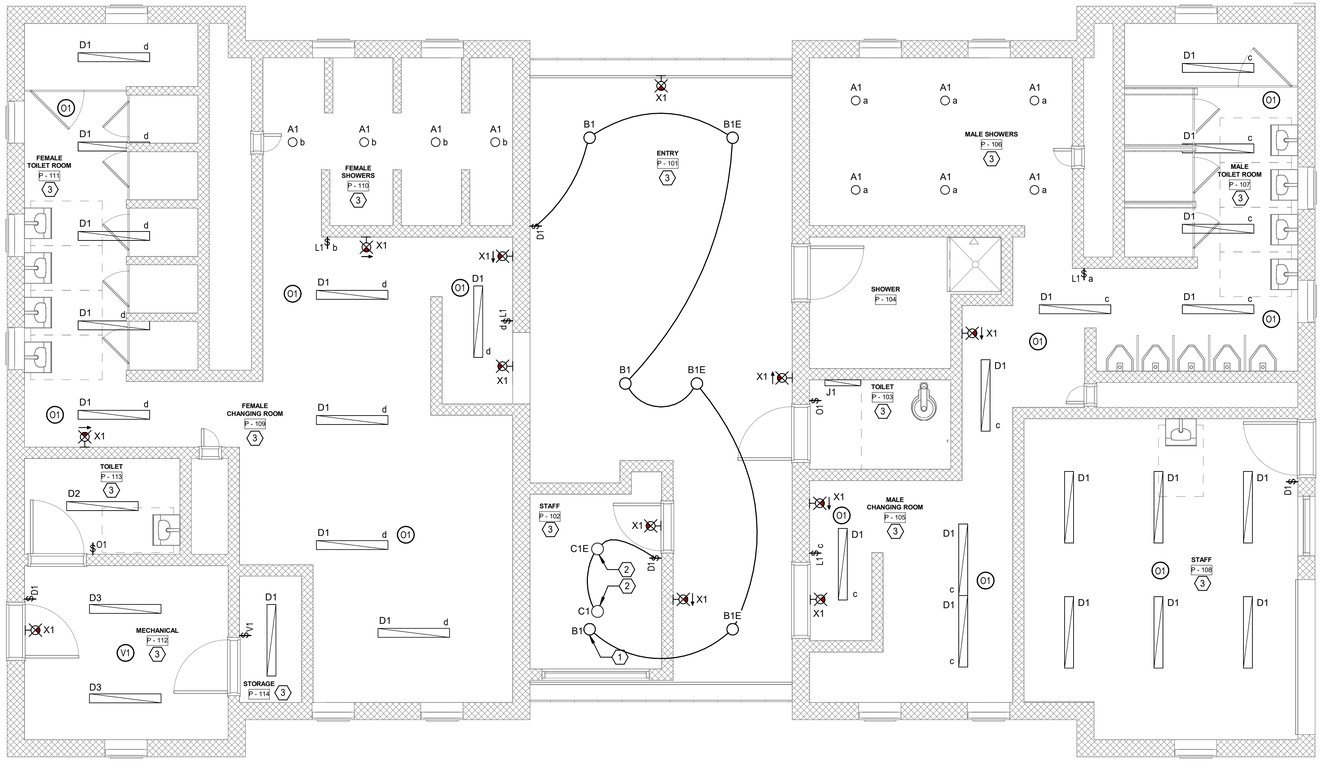

1 ADD ALT - NEW WORK FLOOR PLAN - POOLHOUSE - LIGHTING

Scale: 1/4" = 1'-0"

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GENERAL SHEET NOTES:

1. SEE SHEET E001 FOR ELECTRICAL LEGEND, GENERAL DEMOLITION NOTES, AND GENERAL NOTES.
2. SEE SHEET E002 FOR ELECTRICAL SPECIFICATIONS.
3. SEE SHEET E501 FOR LIGHTING FIXTURE SCHEDULE AND DETAILS.
4. UNLESS OTHERWISE INDICATED, LIGHTING FIXTURES SHALL BE CONTROLLED BY THE SWITCH AND/OR OCCUPANCY SENSOR(S) LOCATED IN THE SAME SPACE
5. ALL EXIT SIGNS SHALL BE CONNECTED UNSWITCHED TO THE NEAREST LIGHTING CIRCUIT WITH 2#12 AWG + 1#12 GROUND IN 3/4" CONDUIT.

SHEET KEYNOTES:

1. MOUNT LIGHT FIXTURE TO CEILING AT APPROXIMATELY 19' AFF.
2. MOUNT LIGHT FIXTURE TO CEILING AT APPROXIMATELY 8' AFF.
3. RECONNECT NEW LIGHTING FIXTURES TO CIRCUITS PREVIOUSLY SERVING DEMOLISHED LIGHTING FIXTURES. PROVIDE NEW MATERIALS MATCHING EXISTING FOR EXTENSION OF CIRCUITS AS REQUIRED. NEW LIGHTING FIXTURES SHALL BE CONNECTED TO THE EXISTING CIRCUITS VIA THE NEW LIGHTING CONTROLS.

COMMONWEALTH OF VIRGINIA
05/22/2026
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REVISION DESCRIPTION

DATE

DATE 05/22/2026
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SCALE 1/4" = 1'-0"

TIMMONS GROUP

MILLER PARK POOL
THE CITY OF LYNCHBURG

JOB NO. 57972.002
SHEET NO. EL101

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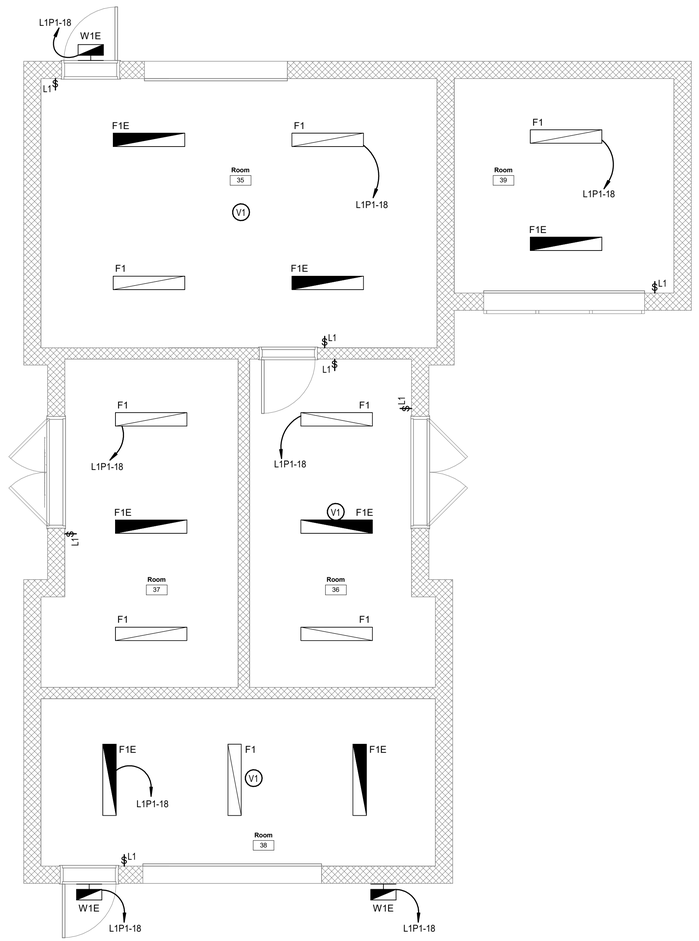

1 NEW WORK FLOOR PLAN - MAINTENANCE BUILDING - LIGHTING

Scale: 1/4" = 1'-0"

GENERAL SHEET NOTES:

1. SEE SHEET E001 FOR ELECTRICAL LEGEND, GENERAL DEMOLITION NOTES, AND GENERAL NOTES.
2. SEE SHEET E002 FOR ELECTRICAL SPECIFICATIONS.
3. SEE SHEET E501 FOR LIGHTING FIXTURE SCHEDULE AND DETAILS.
4. SEE SHEET E601 FOR ELECTRICAL RISER DIAGRAM AND PANEL SCHEDULE.
5. ALL ELECTRICAL FIXTURES, ENCLOSURES, AND CONNECTIONS IN MAINTENANCE BUILDING SHALL BE RATED FOR CORROSIVE ENVIRONMENT UNLESS NOTED OTHERWISE.

COMMONWEALTH OF VIRGINIA
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MILLER PARK POOL
THE CITY OF LYNCHBURG

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SHEET NO. EL102

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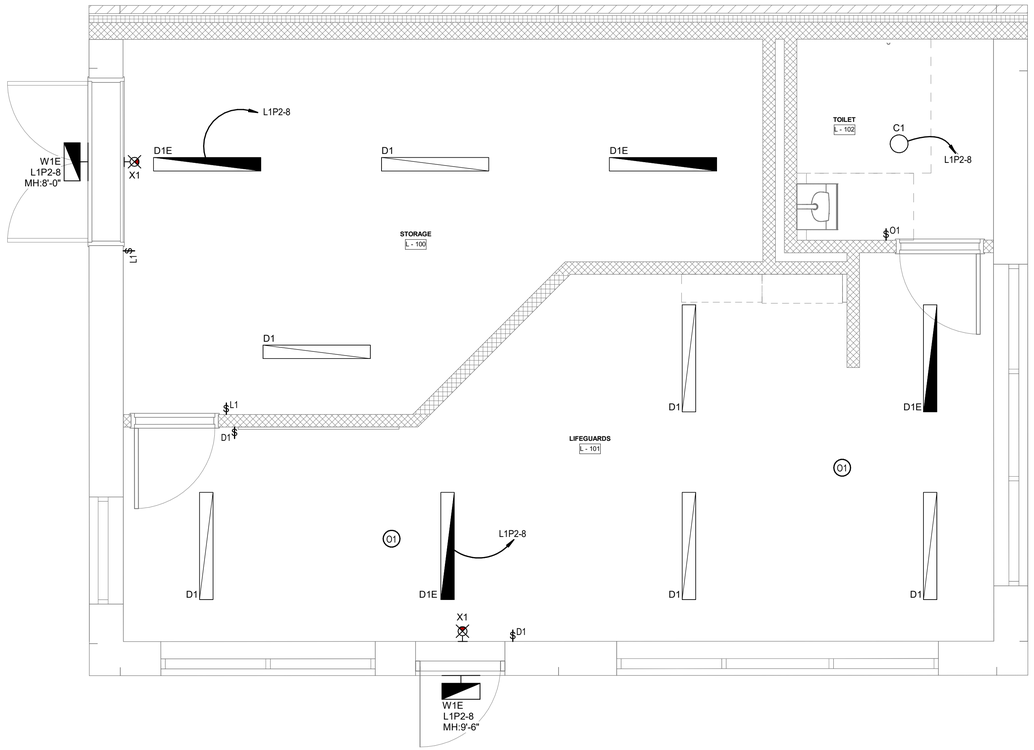

1 NEW WORK FLOOR PLAN - LIFEGUARD BUILDING - LIGHTING

Scale: 3/8" = 1'-0"

GENERAL SHEET NOTES:

1. SEE SHEET E001 FOR ELECTRICAL LEGEND, GENERAL DEMOLITION NOTES, AND GENERAL NOTES.
2. SEE SHEET E002 FOR ELECTRICAL SPECIFICATIONS.
3. SEE SHEET E501 FOR LIGHTING FIXTURE SCHEDULE AND DETAILS.
4. SEE SHEET E601 FOR ELECTRICAL RISER DIAGRAM AND PANEL SCHEDULE.
5. ALL EXIT SIGNS SHALL BE CONNECTED UNSWITCHED TO THE NEAREST LIGHTING CIRCUIT WITH 2#12 AWG + 1#12 GROUND IN 3/4" CONDUIT.

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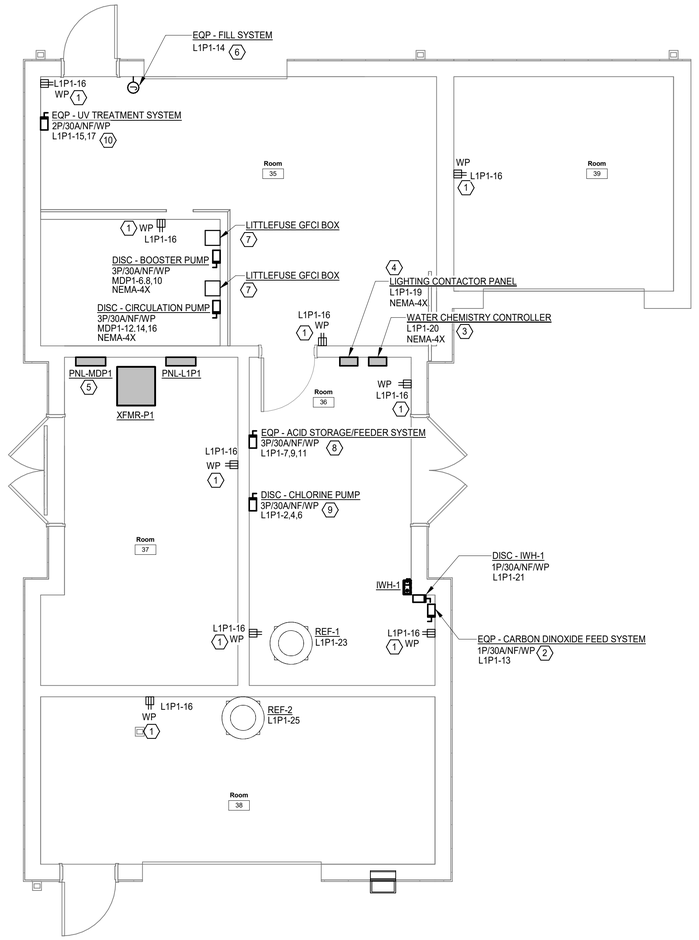

1 NEW WORK FLOOR PLAN - MAINTENANCE BUILDING - POWER

Scale: 1/4" = 1'-0"

GENERAL SHEET NOTES:

1. SEE SHEET E001 FOR ELECTRICAL LEGEND, GENERAL DEMOLITION NOTES, AND GENERAL NOTES.
2. SEE SHEET E002 FOR ELECTRICAL SPECIFICATIONS.
3. SEE SHEET E601 FOR ELECTRICAL RISER DIAGRAM AND PANEL SCHEDULE.
4. ALL ELECTRICAL EQUIPMENT, ENCLOSURES, AND CONNECTIONS IN MAINTENANCE BUILDING SHALL BE RATED FOR CORROSIVE ENVIRONMENT UNLESS NOTED OTHERWISE.

SHEET KEYNOTES:

1. RECEPTACLES SHALL BE GFCI PROTECTED, WEATHER-RESISTANT TYPE, AND SUITABLE FOR WET LOCATIONS. PROVIDE CORROSION RESISTANT DEVICES AND ENCLOSURES.
2. PROVIDE A NEMA-4X RATED DISCONNECT FOR POWER TO CO_2 GAS SENSOR AND STROBE ALARM SYSTEM, SUCH AS ANALOX AX60+ PACKAGE 1 (AP1), OR APPROVED EQUAL. PROVIDE COMPLETE SYSTEM INCLUDING SENSOR, CONTROL/DISPLAY, AND VISUAL/AUDIBLE ALARM.
3. OWNER TO PROVIDE ETHERNET CONNECTION TO WATER CHEMISTRY CONTROLLER. COORDINATE PH/ORP MONITORING AND (5) CONTROL RELAYS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
4. OWNER TO PROVIDE ALLEN-BRADLEY 500L LIGHTING CONTACTOR PANEL, OR APPROVED EQUAL, MOUNTED IN A NEMA 4X LOCKABLE ENCLOSURE. COORDINATE REMOTE UNDERWATER LIGHT SWITCH WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
5. EXISTING PANEL B SHALL BE RE-FED FROM MDP1. REMOVE PANEL B FROM EXISTING DISCONNECT AND RECONNECT EXISTING FEEDERS TO MDP1.
6. PROVIDE A NEMA-4X RATED JUNCTION BOX FOR POWER TO FILL STATION. COORDINATE FINAL LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
7. NEMA-4X RATED CLASS C LITTLEFUSE GCFI BOX TO BE PROVIDED BY POOL VENDER.
8. PROVIDE A NEMA-4X RATED DISCONNECT FOR POWER TO ACID STORAGE/FEEDER SYSTEM. COORDINATE FINAL LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
9. PROVIDE A NEMA-4X RATED DISCONNECT FOR POWER TO CHLORINE STORAGE/FEED SYSTEM BOOSTER PUMP. COORDINATE FINAL LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
10. PROVIDE A NEMA-4X RATED DISCONNECT FOR POWER TO ULTRA VIOLET TREATMENT SYSTEM AND CONTROLLER. COORDINATE FINAL LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.

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MILLER PARK POOL
THE CITY OF LYNCHBURG

JOB NO. 57972.002
SHEET NO. EP102

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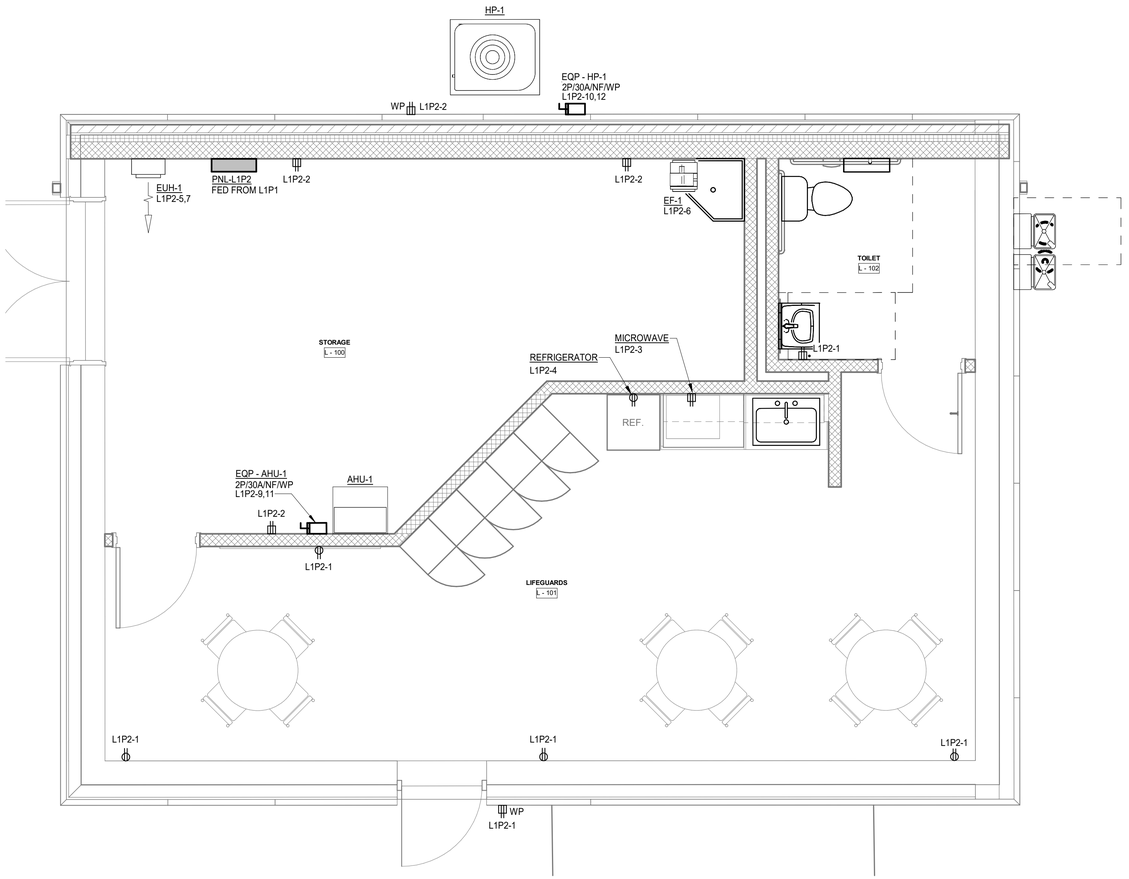

1 NEW WORK FLOOR PLAN - LIFEGUARD BUILDING - POWER
Scale: 3/8" = 1'-0"

GENERAL SHEET NOTES:

1. SEE SHEET E001 FOR ELECTRICAL LEGEND, GENERAL DEMOLITION NOTES, AND GENERAL NOTES.
2. SEE SHEET E002 FOR ELECTRICAL SPECIFICATIONS.
3. SEE SHEET E501 FOR LIGHTING FIXTURE SCHEDULE AND DETAILS.
4. SEE SHEET E601 FOR ELECTRICAL RISER DIAGRAM AND PANEL SCHEDULE.

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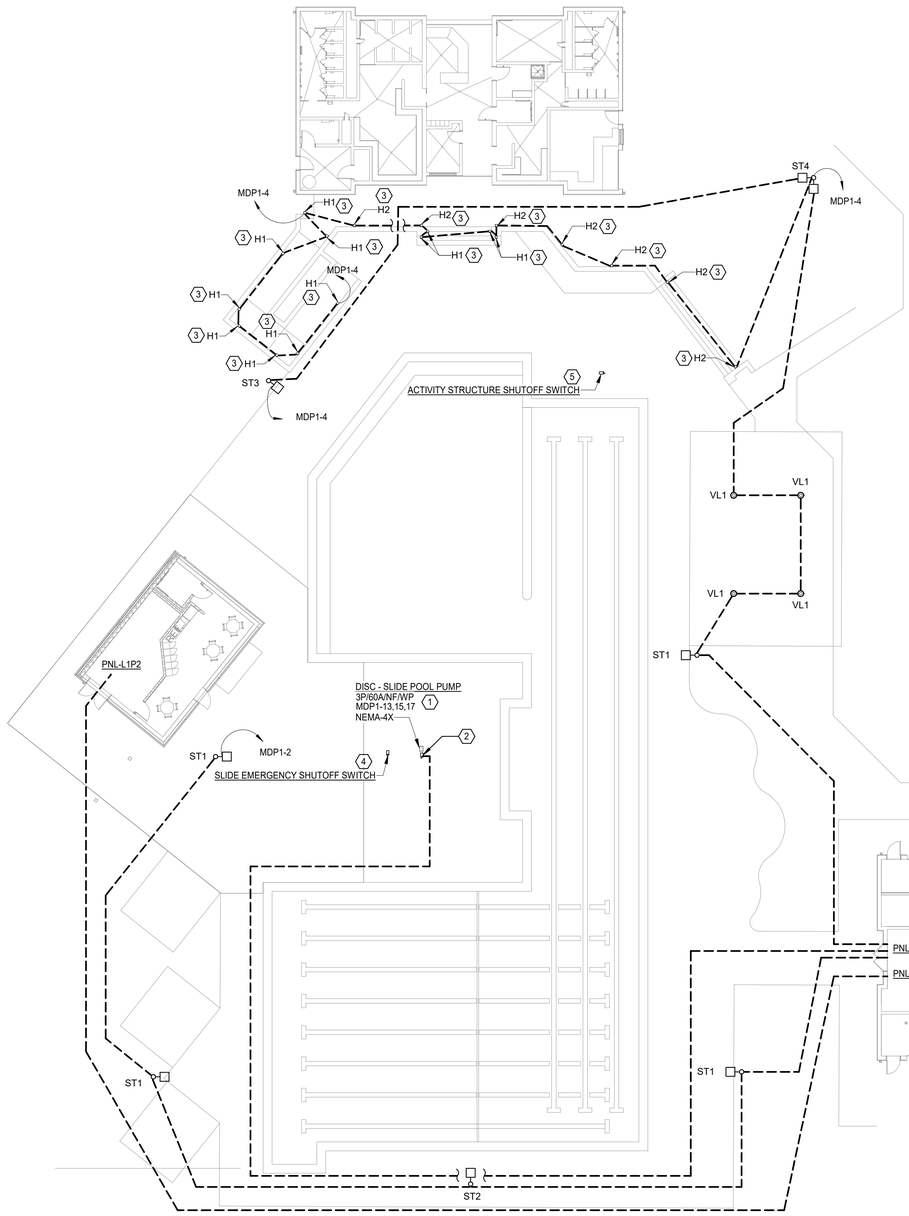

1 SITE - ELECTRICAL PLAN
Scale: 1/16" = 1'-0"

GENERAL SHEET NOTES:

1. SEE SHEET E001 FOR ELECTRICAL LEGEND, GENERAL DEMOLITION NOTES, AND GENERAL NOTES.
2. SEE SHEET E002 FOR ELECTRICAL SPECIFICATIONS.
3. SEE SHEET E501 FOR LIGHTING FIXTURE SCHEDULE AND DETAILS.
4. SEE SHEET E601 FOR ELECTRICAL RISER DIAGRAM AND PANEL SCHEDULE.
5. ROUTING OF CONDUITS SHOWN ON THIS DRAWING IS APPROXIMATE. CONTRACTOR SHALL COORDINATE EXACT ROUTING IN THE FIELD WITH NEW AND EXISTING UTILITIES AND OBSTRUCTIONS.

SHEET KEYNOTES: ⬡

1. PROVIDE A NEMA-4X RATED DISCONNECT FOR POWER TO SLIDE POOL PUMP INSTALLED IN PUMP PIT. ENCLOSURE SHALL BE LISTED FOR WET AND CORROSIVE ENVIRONMENTS. ALL CONDUIT, FITTINGS, AND CONNECTIONS ENTERING THE JUNCTION BOX SHALL BE WATERTIGHT AND OF MATERIALS SUITABLE FOR THE SAME ENVIRONMENT. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
2. NEMA-4X RATED CLASS C LITTLEFUSE GCFI BOX TO BE PROVIDED BY POOL VENDER. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
3. COORDINATE FIXTURE ANGLE AND EXACT LOCATION IN THE FIELD WITH THE OWNER AND ARCHITECT PRIOR TO ROUGH-IN.
4. SLIDE EMERGENCY SHUT-OFF SWITCH TO BE MOUNTED ON SLIDE TOWER STRUCTURAL SUPPORT COLUMN. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH POOL CONTRACTOR AND ARCHITECT PRIOR TO ROUGH-IN.
5. ACTIVITY STRUCTURE EMERGENCY SHUT-OFF SWITCH. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH POOL CONTRACTOR AND ARCHITECT PRIOR TO ROUGH-IN.

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MILLER PARK POOL
THE CITY OF LYNCHBURG

JOB NO. 57972.002
SHEET NO. E401

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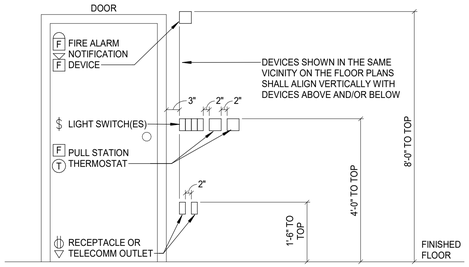
WIRED LIGHTING SENSOR AND SWITCH SCHEDULE

TYPE	MOUNTING	WIRED OR WIRELESS	SENSOR MODEL NUMBER	TIME DELAY SETTING	NOTES
(O1)	CEILING	WIRED	LOS-CDT-2000-WH	15 MINUTES	SET THE AUTO-ON OPTION IN THE SENSOR TO 'ENABLE' TO MAKE THE SENSOR AN OCCUPANCY SENSOR (AUTO-ON/AUTO-OFF OPERATION).
(V1)	CEILING	WIRED	LOS-CDT-2000-WH	15 MINUTES	SET THE AUTO-ON OPTION IN THE SENSOR TO 'DISABLE' TO MAKE THE SENSOR A VACANCY SENSOR.
$O1	WALL (46" AFF TO CENTER)	WIRED	MS-OPS6M2-DV-XX	15 MINUTES	SET THE AUTO-ON OPTION IN THE SENSOR TO "OCCUPANCY" TO MAKE THE SENSOR AN OCCUPANCY SENSOR. COLOR OF DEVICE SHALL BE AS SELECTED BY THE ARCHITECT.
$V1	WALL (46" AFF TO CENTER)	WIRED	MS-OPS6M2-DV-XX	15 MINUTES	SET THE AUTO-ON OPTION IN THE SENSOR TO "VACANCY" TO MAKE THE SENSOR A VACANCY SENSOR. COLOR OF DEVICE SHALL BE AS SELECTED BY THE ARCHITECT.
$OD	WALL (46" AFF TO CENTER)	WIRED	MS-Z101-XX	15 MINUTES	SET THE AUTO-ON OPTION IN THE SENSOR TO "OCCUPANCY" TO MAKE THE SENSOR AN OCCUPANCY SENSOR. SET THE OCCUPIED LEVEL IN THE SENSOR TO 50%'. WHERE THIS SENSOR TYPE IS SHOWN, THE LIGHT FIXTURES SHALL AUTOMATICALLY TURN ON TO 50% LIGHT LEVEL WHEN OCCUPANCY IS INITIALLY DETECTED. THE LIGHT FIXTURES SHALL BE MANUALLY RAISED OR LOWERED IF A DIFFERENT LIGHT LEVEL IS DESIRED. COLOR OF DEVICE SHALL BE AS SELECTED BY THE ARCHITECT.
$L1	WALL (46" AFF TO CENTER)	WIRED	QSWS2-2BI-XX-NST	-	THIS LOW-VOLTAGE WIRED SWITCH SHALL PROVIDE 'ON/OFF' CONTROL FOR ONE ZONE OF LIGHT FIXTURES. COLOR OF DEVICE SHALL BE AS SELECTED BY THE ARCHITECT. TOP BUTTON SHALL BE ENGRAVED "ON". BOTTOM BUTTON SHALL BE ENGRAVED "OFF".
$D1	WALL (46" AFF TO CENTER)	WIRED	QSWS2-2BRLI-XX-NST	-	THIS LOW-VOLTAGE WIRED SWITCH SHALL PROVIDE 'ON/OFF/RAISE/LOWER' CONTROL FOR ONE ZONE OF LIGHT FIXTURES. COLOR OF DEVICE SHALL BE AS SELECTED BY THE ARCHITECT. TOP BUTTON SHALL BE ENGRAVED "ON". BOTTOM BUTTON SHALL BE ENGRAVED "OFF".

WIRED LIGHTING SENSOR AND SWITCH SCHEDULE GENERAL NOTES:

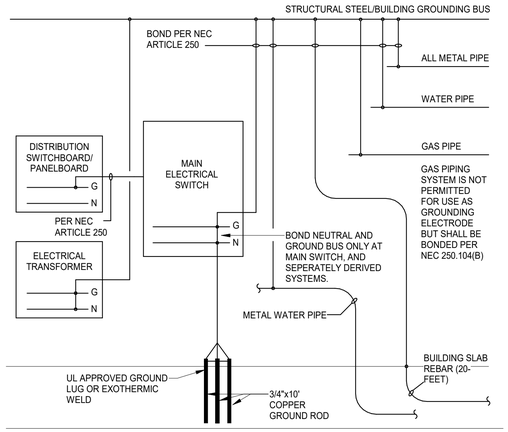
1. DEVICE FINISHES SHALL BE AS OUTLINED IN THE SPECIFICATIONS.
2. EXACT LOCATIONS OF ALL SENSORS SHALL BE AS RECOMMENDED BY MANUFACTURER.
3. ALL OCCUPANCY/VACANCY SENSOR TIME DELAYS SHALL BE 15 MINUTES, UNLESS OTHERWISE NOTED.
4. PROVIDE ALL LOW-VOLTAGE WIRING NEEDED FOR A FULLY OPERATIONAL SYSTEM (CAT 5E, 0-10V VIOLET-AND-GRAY, ANY OTHER MANUFACTURER-RECOMMENDED CABLING, PLENUM-RATED WHERE IN AIR HANDLING SPACES, IN DEDICATED CONDUIT SYSTEM WHERE NOT ABOVE ACCESSIBLE CEILINGS, IN DEDICATED SLEEVES WHERE PENETRATING PARTITIONS).
5. FOR CAT5E "PLUG-AND-PLAY" SYSTEMS, AT LEAST ONE WALL SWITCH IN EACH ROOM SHALL HAVE AN OPEN CAT5E PORT.
6. PROVIDE ALL PROGRAMMING NEEDED TO SET UP SENSORS, POWER PACKS, AND LOW-VOLTAGE SWITCHES PRIOR TO SUBSTANTIAL COMPLETION. LOW-VOLTAGE CONTROLS (SENSORS, SCENES, AND SWITCHES) SHALL BE USER-CONFIGURABLE EITHER VIA A MOBILE APP OR HANDHELD REMOTE CONTROLS - PROVIDE ONE OF EACH DEVICE REQUIRED FOR USER-CONFIGURATION AFTER INITIAL SETUP.
7. ALL MANUAL CONTROL MOUNTING HEIGHTS SHALL BE 48" AFF TO THE TOP. LOAD CONTROLLERS SHALL BE LOCATED ABOVE THE NEAREST ACCESSIBLE CEILING (PLENUM-RATED WHERE IN AIR HANDLING SPACES).
8. PROVIDE LOAD CONTROLLERS IN QUANTITIES NEEDED TO SERVE THE NUMBER OF ZONES INDICATED ON THE DRAWINGS. ROOMS MAY SHARE LOAD CONTROLLERS IF THERE ARE SUFFICIENT OUTPUTS AND IF ROOMS CAN STILL OPERATE INDEPENDENTLY OF ONE ANOTHER. LOAD CONTROLLERS SHALL BE THE DIMMING TYPE WITH 0-10V WIRING IN ROOMS WHERE SWITCHES ARE THE DIMMING TYPE OR WHERE PHOTOSENSORS ARE PRESENT.
9. LOW-VOLTAGE CONTROL WIRING (INCLUDING 0-10V) MUST BE INSTALLED AS CLASS 2 CIRCUITS, IN FULL COMPLIANCE WITH NEC 725.136. LOW-VOLTAGE WIRING CANNOT SHARE THE SAME RACEWAY WITH LINE-VOLTAGE WIRING EXCEPT UNDER THE CONDITIONS LISTED IN NEC 725.136(I).
10. SEE SPECIFICATIONS FOR MORE DETAILS. SUBMIT SHOP DRAWINGS OF ALL LIGHTING CONTROL DEVICES.



DETAIL NOTES:

1. NOT ALL DEVICES SHOWN ARE USED IN ALL LOCATIONS. REFER TO THE ELECTRICAL FLOOR PLANS FOR DEVICE LOCATIONS.
2. DEVICE HEIGHTS INDICATED ON THE FLOOR PLANS SHALL TAKE PRECEDENCE OVER THE HEIGHTS INDICATED ON THIS DETAIL.
3. DEVICES THAT ARE SHOWN SIDE BY SIDE ON THE FLOOR PLANS, BUT NOT GANGED TOGETHER, SHALL BE INSTALLED WITH 2" OF SEPARATION BETWEEN THE FACEPLATES UNLESS NOTED OTHERWISE, OR UNLESS MORE SEPARATION IS REQUIRED TO MAINTAIN FIRE RATING OF WALL.

1 TYPICAL WALL DEVICE LOCATION DETAIL
Scale: NONE



2 GROUNDING/BONDING DETAIL
Scale: 12" = 1'-0"

LIGHTING FIXTURE SCHEDULE

TYPE MARK	CATALOG NUMBER MANUFACTURER	CATALOG NUMBER MODEL	MOUNTING	DELIVERED LUMENS	CCT	CRI	VOLTAGE	LOAD	REMARKS
A1	JUNO LIGHTING	WF6-ALO20-SWW5-90CRI-MVOLT	RECESSED	1050	4000 K	90	120	7 W	6-INCH MEDIUM BEAM OPEN DOWNLIGHT WITH NON CONDUCTIVE TRIM. RATED FOR WET LOCATIONS.
B1	LITHONIA LIGHTING	LDN8-45LM-40K-L08-MVOLT-UGZ-90CRI	RECESSED	4500	4000 K	90	120	19 W	8-INCH MEDIUM BEAM OPEN DOWNLIGHT.
B1E	LITHONIA LIGHTING	LDN8-45LM-40K-L08-MVOLT-UGZ-90CRI-E10WCP	RECESSED	4500	4000 K	90	120	19 W	8-INCH MEDIUM BEAM OPEN DOWNLIGHT. PROVIDE WITH EMERGENCY BATTERY BACKUP.
C1	LITHONIA LIGHTING	LDN6-40-10-LO6AR-LD-90CRI	RECESSED	852	4000 K	90	120	7 W	6-INCH MEDIUM BEAM OPEN DOWNLIGHT.
C1E	LITHONIA LIGHTING	LDN6-40-10-LO6AR-LD-90CRI-E10WCP	RECESSED	852	4000 K	90	120	7 W	6-INCH MEDIUM BEAM OPEN DOWNLIGHT. PROVIDE WITH EMERGENCY BATTERY BACKUP.
D1	LITHONIA LIGHTING	BLWP4-20L-ADP-MVOLT-GZ10-LP940	SURFACE	2000	4000 K	90	120	20 W	6"X4' LED WRAPAROUND FIXTURE SURFACE MOUNTED TO CEILING.
D1E	LITHONIA LIGHTING	BLWP4-20L-ADP-MVOLT-GZ10-LP940-E10W	SURFACE	2000	4000 K	90	120	20 W	6"X4' LED WRAPAROUND FIXTURE SURFACE MOUNTED TO CEILING. PROVIDE WITH EMERGENCY BATTERY BACKUP.
D2	LITHONIA LIGHTING	BLWP4-30L-ADP-MVOLT-GZ10-LP940-	SURFACE	3000	4000 K	90	120	20 W	6"X4' LED WRAPAROUND FIXTURE SURFACE MOUNTED TO CEILING.
D3	LITHONIA LIGHTING	BLWP4-40L-ADP-MVOLT-GZ10-LP940-	SURFACE	4000	4000 K	90	120	20 W	6"X4' LED WRAPAROUND FIXTURE SURFACE MOUNTED TO CEILING.
F1	LITHONIA LIGHTING	L48-3000LM-LPAFL-MD-MVOLT-40K-90CRI	SURFACE	3000	4000 K	90	120	20 W	SUSPENDED LED FIXTURE SUITABLE FOR WET LOCATION AND CORRISON RESISTANT.
F1E	LITHONIA LIGHTING	L48-3000LM-LPAFL-MD-MVOLT-40K-90CRI-E10WMCP	SURFACE	3000	4000 K	90	120	20 W	SUSPENDED LED FIXTURE SUITABLE FOR WET LOCATION AND CORRISON RESISTANT. PROVIDE WITH EMERGENCY BATTERY BACKUP.
H1	HYDREL LIGHTING	WANDER1-SM-P1-90CRI-30K-MVOLT-SW	SURFACE	319	3000 K	90	277	10 W	SURFACE MOUNTED PATHWAY LIGHT WITH WIDE LATERAL DISTRIBUTION.
H2	HYDREL LIGHTING	WANDER1-SM-P1-90CRI-30K-MVOLT-LM	SURFACE	322	3000 K	90	277	10 W	SURFACE MOUNTED PATHWAY LIGHT WITH MEDIUM LATERAL DISTRIBUTION.
J1	LITHONIA LIGHTING	FMVTRL-24IN-MVOLT-30K-90CRI	WALL	1370	3000 K	90	120	33 W	2' TRADITIONAL VANITY LIGHT. COORDINATE EXACT HEIGHT WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.
ST1	LITHONIA LIGHTING	DSX1-LED-P5-30K-80CRI-TFTM-MVOLT-RPA-FA0-DDBXD	POLE MOUNT 1 @ 90	15700	3000 K	80	277	140 W	FORWARD THROW AREA LUMINAIRE. POLE SHALL BE RSS-20'-4B-DM19AS-DDBXD.
ST2	LITHONIA LIGHTING	DSX1-LED-P5-30K-80CRI-T3M-MVOLT-RPA-FA0-DDBXD	POLE MOUNT 1 @ 90	15350	3000 K	80	277	140 W	TYPE 3 AREA LUMINAIRE. POLE SHALL BE RSS-20'-4B-DM19AS-DDBXD.
ST3	LITHONIA LIGHTING	DSX1-LED-P8-30K-80CRI-TFTM-MVOLT-RPA-FA0-DDBXD	POLE MOUNT 1 @ 90	24950	3000 K	80	277	220 W	FORWARD THROW AREA LUMINAIRE. POLE SHALL BE RSS-20'-4B-DM19AS-DDBXD.
ST4	LITHONIA LIGHTING	DSX1-LED-P4-30K-80CRI-TFTM-MVOLT-RPA-FA0-DDBXD	POLE MOUNT 1 @ 90	14272	3000 K	80	277	250 W	DUAL HEAD FORWARD THROW AREA LUMINAIRE. POLE SHALL BE RSS-20'-4B-DM19AS-DDBXD.
VL1	NLS LIGHTING	ORX-2-T5W-32L-53-30K7-UNV	POLE MOUNT	3584	3000 K	70	277	50 W	OUTDOOR AREA LIGHT - STEM MOUNTED AT 9'-6" AFG.
W1E	LITHONIA LIGHTING	WDGE1-LED-P1-40K-90CRI-VF-MVOLT-SRM-E4WH	WALL	1090	4000 K	90	120	10 W	MOUNT FIXTURE AT +8'-0" AFF. PROVIDE WITH BATTERY BACKUP.
X1	LITHONIA LIGHTING	LQM-S-3-R-120/277-M6	WALL	N/A	N/A	0	120	5 W	UNIVERSAL LED EXIT SIGN MOUNTED WITH WHITE HOUSING, RED LETTERING AND EMERGENCY BATTERY BACK-UP.

LIGHTING FIXTURE SCHEDULE NOTES:

1. FIXTURES SHOWN ON THE FLOOR PLAN HAVING A DESIGNATION OF "E" FOLLOWING THE BASE DESIGNATION (I.E. - A FIXTURE TYPE "AE, C2E, FE") AND/OR A HALF SHADED REGION SHALL BE THE BASE FIXTURE TYPE EQUIPPED WITH THE APPROPRIATE BATTERY BACK-UP. BATTERY BACK-UPS SHALL BE INTEGRAL TO THE FIXTURE AND REMOTE SHALL BE SELECTED ONLY IN INSTANCES WHERE IT IS SPECIFIED OR WHEN IT IS THE ONLY AVAILABLE EMERGENCY OPTION. THE LOCATION OF REMOTE BATTERY BACKUPS SHALL BE SELECTED BY THE OWNER/ARCHITECT PRIOR TO INSTALLATION BY THE CONTRACTOR.
2. ALL REQUIRED TEST SWITCHES FOR THE BATTERY BACK-UPS SHALL BE INTEGRAL TO THE FIXTURE WHEREVER POSSIBLE. WHERE REMOTE TEST SWITCHES ARE REQUIRED, COORDINATE INSTALLATION LOCATION WITH THE ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
3. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS NOT INDICATED IN THE LIGHTING FIXTURE SCHEDULE. WHERE THERE IS AN INCONSISTENCY BETWEEN THE LIGHTING FIXTURE SCHEDULE AND THE SPECIFICATIONS, THE GREATER QUANTITY OR HIGHER QUALITY OF WORK SHALL BE INCLUDED IN THE PROPOSAL.
4. UNLESS OTHERWISE INDICATED ON THE SCHEDULE ABOVE, THE ARCHITECT/OWNER SHALL SELECT ALL FINISHES, COLORS, AND TRIMS, INCLUDING FINISHES OF POLES, HOUSINGS, ETC.
5. ALL LED FIXTURE BOARDS AND DRIVERS SHALL BE OF THE LATEST GENERATION, BASED UPON THE INDIVIDUAL MANUFACTURER'S STATED LITERATURE. IF A "GEN 5" IS AVAILABLE, "GEN 4" FIXTURES ARE NOT ACCEPTABLE.
6. EXIT SIGNS AND EMERGENCY BATTERY BACK-UPS SHALL BE CONNECTED TO THE NEAREST LIGHTING CIRCUIT AHEAD OF ALL SWITCHING AS REQUIRED TO MAINTAIN THE BATTERIES AT FULL CHARGE. THE CONTRACTOR SHALL PROVIDE ALL ADDITIONAL WIRING AS REQUIRED.
7. LIGHTING FIXTURE MANUFACTURERS OTHER THAN THOSE LISTED IN THE LIGHTING FIXTURE SCHEDULE AND DESIRING TO BID THIS PROJECT SHALL REQUEST PRIOR APPROVAL OF THE FIXTURES THEY WISH TO SUBSTITUTE. PRIOR APPROVAL REQUEST SHALL INCLUDE FIXTURE CUT SHEETS.
8. PRIOR APPROVAL IS NOT REQUIRED FOR THIS PROJECT AND SUBSTITUTIONS WILL BE REVIEWED DURING THE SUBMITTAL PHASE OF CONSTRUCTION. THE CONTRACTOR ACCEPTS ALL RESPONSIBILITY FOR ENSURING THAT ANY SUBSTITUTIONS ARE ACCEPTABLE TO THE OWNER, AND MEET THE AESTHETICS, INTENT, AND BASIS OF DESIGN OF THE SPECIFIED FIXTURES AS DETERMINED BY THE ENGINEER/ARCHITECT.
9. ALL LIGHTING SPECIFIED SHALL BE 4000K INTERIOR & 4000K EXTERIOR UNLESS NOTED OTHERWISE. CONFIRM COLOR TEMPERATURES WITH ARCHITECT AND OWNER PRIOR TO ORDERING LIGHT FIXTURES.
10. ALL LIGHTING SPECIFIED SHALL HAVE 80CRI MINIMUM UNLESS NOTED OTHERWISE.
11. THE CONTRACTOR SHALL PROVIDE ALL HARDWARE AND ACCESSORIES AS REQUIRED TO INSTALL FIXTURES IN LOCATIONS AS ILLUSTRATED WITH MOUNTING METHODS DESIRED.
12. WHEN A UNIVERSAL (120-277V) VOLTAGE OPTION IS AVAILABLE, IT SHALL BE PROVIDED. OTHERWISE PROVIDE AS INDICATED IN SCHEDULE.
13. FOR ALL SUSPENDED FIXTURES, COORDINATE THE EXACT MOUNTING ELEVATION ABOVE FINISHED FLOOR WITH ARCHITECT PRIOR TO INSTALLATION. PROVIDE SUSPENSION HARDWARE IN LENGTHS AS REQUIRED.

#
#

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TIMMONS GROUP

REVISION DESCRIPTION

DATE

DATE 05/22/2026
DRAWN BY CNM
DESIGNED BY CNM
CHECKED BY Checker
SCALE N/A

MILLER PARK POOL
THE CITY OF LYNCHBURG

JOB NO. 57972.002
SHEET NO. E501

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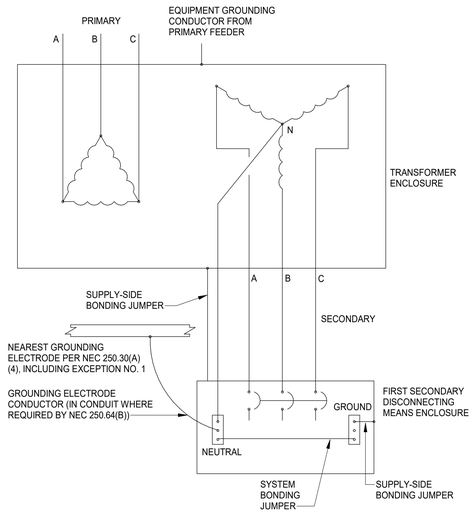
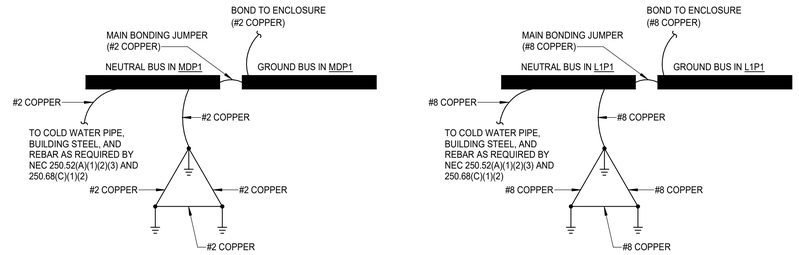


4 TRANSFORMER CONNECTION SCHEMATIC
Scale: NONE



3 GROUNDING SCHEMATIC
Scale: NONE

GROUNDING SCHEMATIC GENERAL NOTES:

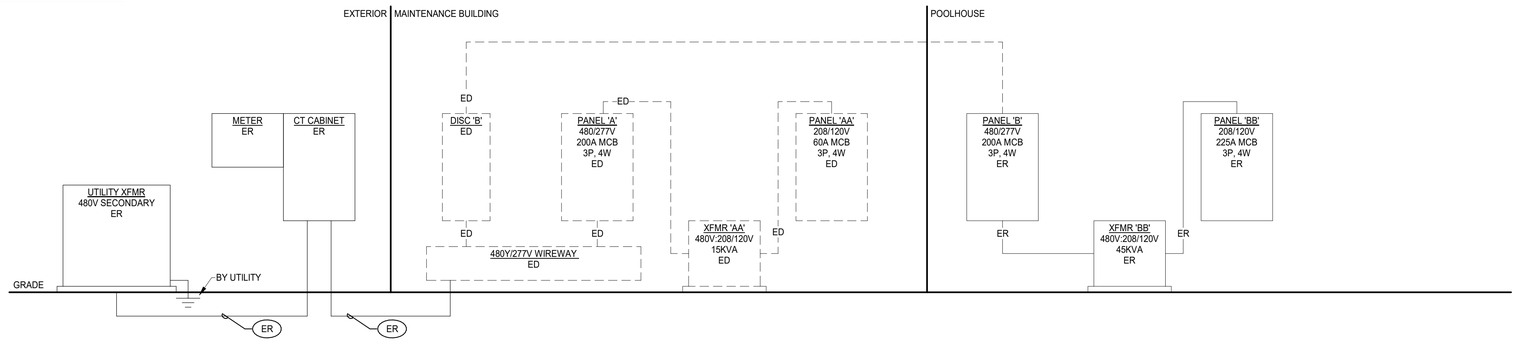
1. ALL GROUND ROD CONNECTIONS SHALL BE EXOTHERMIC WELD. THE THREE (3) GROUND RODS SHOWN IN THE TRIPOD SHALL BE 10 FEET APART. THE FOUR (4) GROUND RODS SHOWN AROUND THE GENERATOR SHALL BE EVENLY SPACED AT LEAST 6 FEET APART.
2. ALL CONDUCTORS SHOWN SHALL BE COPPER.
3. SEE POWER RISER DIAGRAM FOR GROUNDING DISTRIBUTION TRANSFORMER SECONDARIES.
4. GROUNDING ELECTRODE CONDUCTORS SHALL BE IN CONDUIT WHERE REQUIRED BY NEC 250.64(B).

COPPER FEEDER SIZING SCHEDULE

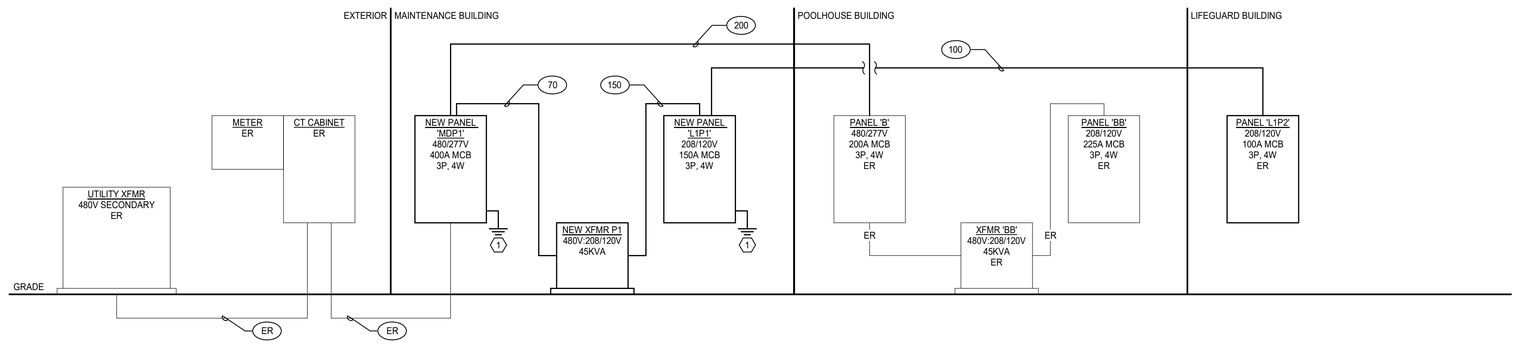
SYMBOL	# OF SETS	CONDUCTORS (COPPER)	GND.	CONDUIT	CONDUIT (W/O NEUTRAL)	AMPS
70	1	4-#4	#8	1-1/4"	1"	70A
100	1	4-#3	#8	1-1/4"	1-1/4"	100A
150	1	4-#1/0	#6	2"	1-1/2"	150A
200	1	4-#3/0	#6	2"	2"	200A

+ WHERE THE FEEDER SYMBOL IS SHOWN WITH A SUBSCIPT 'N', THE NEUTRAL CONDUCTOR SHALL BE DELETED FROM THE CONDUCTORS SHOWN IN THE FEEDER SCHEDULE.

++ WHERE THE FEEDER SYMBOL IS SHOWN WITH A SUBSCIPT 'IG', THE FEEDER SHALL BE PROVIDED WITH A SEPARATE ISOLATED GROUND CONDUCTOR SIZED TO MATCH THE EQUIPMENT GROUND.



1 ELECTRICAL DEMOLITION RISER DIAGRAM
Scale: NONE



2 ELECTRICAL NEW WORK RISER DIAGRAM
Scale: NONE

ELECTRICAL RISER DIAGRAM NOTES:

1. REFER TO GROUNDING SCHEMATIC ON THIS SHEET.

#
#

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TIMMONS GROUP

MILLER PARK POOL
THE CITY OF LYNCHBURG

JOB NO. 57972.002
SHEET NO. E601

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Branch Panel: MDP1

Location: Room 37 | **Volts:** 277/480 Wye | **A.I.C. Rating:** 18,000
Supply From: | **Phases:** 3 | **Enclosure:** NEMA 4X
Mounting: Surface | **Wires:** 4 | **Mains:** 400A MCB
Phase in kVA

NOTE	CKT	CIRCUIT DESCRIPTION	WIRE	GND	CONDUIT	BKR		A	B	C	BKR		CONDUIT	GND	WIRE	CIRCUIT DESCRIPTION	CKT	NOTE
	1							0.0 / 0.6			1	20	3/4"	1#12	2#12	LTG - POOL PLAN SOUTH	2	
	3	EX PANEL - B	ER	ER	ER	200	3		0.0 / 1.0		1	20	3/4"	1#12	2#12	LTG - POOL PLAN NORTH	4	
	5									0.0 / 5.0							6	
	7							7.1 / 5.0			3	30	3/4"	1#10	3#10	EQP - BOOSTER PUMP	8	
	9	XFMR-P1	3#4	1#8	1-1/4"	70	3		10.5 / 5.0								10	
	11									7.0 / 3.7							12	
	13							8.3 / 3.7			3	40	1"	1#10	3#8	EQP - CIRCULATION PUMP	14	
	15	EQP - SLIDE POOL PUMP	3#8	1#10	1"	40	3		8.3 / 3.7								16	
	17									8.3 / 0.0	1	20	--	--	--	SPARE	18	--
--	19	SPARE	--	--	--	20	1	0.0 / 0.0			1	20	--	--	--	SPARE	20	--
--	21	SPARE	--	--	--	20	1		0.0 / 0.0		1	20	--	--	--	SPARE	22	--
--	23	SPARE	--	--	--	20	1			0.0 / 0.0	1	20	--	--	--	SPARE	24	--
--	25	SPARE	--	--	--	20	1	0.0 / 0.0			1	20	--	--	--	SPARE	26	--
--	27	SPARE	--	--	--	20	1		0.0 / 0.0		1	20	--	--	--	SPARE	28	--
--	29	SPARE	--	--	--	20	1			0.0 / 0.0	1	20	--	--	--	SPARE	30	--
--	31	SPACE	--	--	--	--	1	0.0 / 0.0			1	--	--	--	--	SPACE	32	--
--	33	SPACE	--	--	--	--	1		0.0 / 0.0		1	--	--	--	--	SPACE	34	--
--	35	SPACE	--	--	--	--	1			0.0 / 0.0	1	--	--	--	--	SPACE	36	--
--	37	SPACE	--	--	--	--	1	0.0 / 0.0			1	--	--	--	--	SPACE	38	--
--	39	SPACE	--	--	--	--	1		0.0 / 0.0		1	--	--	--	--	SPACE	40	--
--	41	SPACE	--	--	--	--	1			0.0 / 0.0	1	--	--	--	--	SPACE	42	--
						Total Load:		24.7 kVA	28.6 kVA	24.1 kVA								
						Total Amps:		89 A	103 A	87 A								

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	0.3 kVA	100.00%	0.3 kVA		
Heating	9.5 kVA	100.00%	9.5 kVA	**Total Conn. Load:**	77.4 kVA
Lighting	2.1 kVA	125.00%	2.6 kVA	**Total Est. Demand:**	77.9 kVA
Miscellaneous	57.7 kVA	100.00%	57.7 kVA	**Total Conn. Current:**	93 A
Receptacles	7.8 kVA	100.00%	7.8 kVA	**Total Est. Demand Current:**	94 A

Notes:

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER
1-L - REFER TO ELECTRICAL RISER DIAGRAMS

Branch Panel: L1P1

Location: Room 37 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: 45 kVA, 277/480, Three Phase, ... | **Phases:** 3 | **Enclosure:** NEMA 4X
Mounting: Surface | **Wires:** 4 | **Mains:** 150A MCB
Phase in kVA

NOTE	CKT	CIRCUIT DESCRIPTION	WIRE	GND	CONDUIT	BKR		A	B	C	BKR		CONDUIT	GND	WIRE	CIRCUIT DESCRIPTION	CKT	NOTE
	1							3.5 / 0.5									2	
W	3	L1P2	4#2	1#6	2"	100	3		4.9 / 0.5		3	20	3/4"	1#12	3#12	EQP - CHLORINE PUMP	4	G
	5									4.1 / 0.5							6	
	7							0.5 / 0.0			1	20	--	--	--	SPARE	8	--
G	9	EQP - ACID FEED PUMO	2#12	1#12	3/4"	20	3		0.5 / 0.0		1	20	--	--	--	SPARE	10	--
	11									0.5 / 0.0	1	20	--	--	--	SPARE	12	--
G	13	EQP - CO2 FEED SYSTEM	2#12	1#12	3/4"	20	1	0.5 / 0.3			1	20	3/4"	1#12	2#12	EQP - FILL SYSTEM	14	G
G	15	EQP - UV TREATMENT	2#10	1#10	3/4"	30	2		1.5 / 1.6		1	20	3/4"	1#12	2#12	REC	16	
	17									1.5 / 0.3	1	20	3/4"	1#12	2#12	LTG	18	
G	19	EQP - LTG CONTACTOR	2#12	1#12	3/4"	20	1	0.8 / 0.8			1	20	3/4"	1#12	2#12	EQP - WATER CHEM...	20	G
G	21	EQP - IWH-1	2#12	1#12	3/4"	20	1		1.5 / 0.0		1	20	--	--	--	SPARE	22	--
G	23	EQP - REF-1	2#12	1#12	3/4"	15	1			0.1 / 0.0	1	20	--	--	--	SPARE	24	--
G	25	EQP - REF-2	2#12	1#12	3/4"	15	1	0.1 / 0.0			1	20	--	--	--	SPARE	26	--
--	27	SPARE	--	--	--	20	1		0.0 / 0.0		1	20	--	--	--	SPARE	28	--
--	29	SPARE	--	--	--	20	1			0.0 / 0.0	1	20	--	--	--	SPARE	30	--
--	31	SPARE	--	--	--	20	1	0.0 / 0.0			1	--	--	--	--	SPACE	32	--
--	33	SPARE	--	--	--	20	1		0.0 / 0.0		1	--	--	--	--	SPACE	34	--
--	35	SPARE	--	--	--	20	1			0.0 / 0.0	1	--	--	--	--	SPACE	36	--
--	37	SPACE	--	--	--	--	1	0.0 / 0.0			1	--	--	--	--	SPACE	38	--
--	39	SPACE	--	--	--	--	1		0.0 / 0.0		1	--	--	--	--	SPACE	40	--
--	41	SPACE	--	--	--	--	1			0.0 / 0.0	1	--	--	--	--	SPACE	42	--
						Total Load:		7.1 kVA	10.5 kVA	7.0 kVA								
						Total Amps:		59 A	87 A	59 A								

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	0.3 kVA	100.00%	0.3 kVA		
Heating	9.5 kVA	100.00%	9.5 kVA	**Total Conn. Load:**	24.6 kVA
Lighting	0.6 kVA	125.00%	0.7 kVA	**Total Est. Demand:**	24.7 kVA
Miscellaneous	6.5 kVA	100.00%	6.5 kVA	**Total Conn. Current:**	68 A
Receptacles	7.8 kVA	100.00%	7.8 kVA	**Total Est. Demand Current:**	69 A

Notes:

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER
1-L - REFER TO ELECTRICAL RISER DIAGRAMS
W - WIRE UPSIZED DUE TO VOLTAGE DROP

Branch Panel: B

Location: STAFF P - 102 | **Volts:** 277/480 Wye | **A.I.C. Rating:** 10,000
Supply From: MDP1 | **Phases:** 3 | **Enclosure:** Type 1
Mounting: Surface | **Wires:** 4 | **Mains:** 200A
Phase in kVA

NOTE	CKT	CIRCUIT DESCRIPTION	WIRE	GND	CONDUIT	BKR		A	B	C	BKR		CONDUIT	GND	WIRE	CIRCUIT DESCRIPTION	CKT	NOTE
--	1	EX SPACE	--	--	--	--	1	0.0 / 0.0			1	--	--	--	--	EX SPACE	2	--
--	3	EX BATH HOUSE LTS	--	--	--	20	1		0.0 / 0.0		1	20	--	--	--	EX TIMX	4	--
--	5	EX PARKING LOT POLE LTS	--	--	--	20	1			0.0 / 0.0	1	20	--	--	--	EX PARKING LOT POLE LTS	6	--
--	7	EX PARKING LOT POLE LTS	--	--	--	20	1	0.0 / 0.0			1	20	--	--	--	EX PARKING LOT POLE LTS	8	--
--	9	EX PARKING LOT POLE LTS	--	--	--	20	1		0.0 / 0.0		1	20	--	--	--	EX PARKING LOT POLE LTS	10	--
--	11	EX SPARE	--	--	--	20	1			0.0 / 0.0	1	20	--	--	--	EX PARKING LOT POLE LTS	12	--
--	13	EX SPARE	--	--	--	20	1	0.0 / 0.0			1	20	--	--	--	EX SPARE	14	--
	15								0.0 / 0.0								16	
	17	EX XFMR-BB	ER	ER	ER	70	3			0.0 / 0.0	3	30	--	--	--	EX HOT WTR HTR	18	--
	19							0.0 / 0.0									20	
						Total Load:		0.0 kVA	0.0 kVA	0.0 kVA								
						Total Amps:		0 A	0 A	0 A								

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0.0 kVA
				Total Est. Demand:	0.0 kVA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Notes:
1. PROVIDE NEW BRANCH CIRCUIT FROM EXISTING SPARE BREAKER.

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER
1-L - REFER TO ELECTRICAL RISER DIAGRAMS

Branch Panel: BB

Location: STAFF P - 102 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10,000
Supply From: 45 kVA, 277/480, Three Phase, ... | **Phases:** 3 | **Enclosure:** Type 1
Mounting: Surface | **Wires:** 4 | **Mains:** 225A
Phase in kVA

NOTE	CKT	CIRCUIT DESCRIPTION	WIRE	GND	CONDUIT	BKR		A	B	C	BKR		CONDUIT	GND	WIRE	CIRCUIT DESCRIPTION	CKT	NOTE
--	1	EX ENTRANCE SIGN LIGHTS	--	--	--	20	1	0.0 / 0.0			1	20	--	--	--	EX REGISTER REC - SNACK...	2	--
--	3	EX POLE LIGHT REC -...	--	--	--	20	1		0.0 / 0.0		1	20	--	--	--	EX SPARE	4	--
--	5	EX POLE LIGHT REC -...	--	--	--	20	1			0.0 / 0.0	1	20	--	--	--	EX REC	6	--
--	7	EX HAND DRYER	--	--	--	30	1	0.0 / 0.0			1	20	--	--	--	EX REC	8	--
--	9	EX REGISTER REC -...	--	--	--	20	1		0.0 / 0.0		1	30	--	--	--	EX HAND DRYER	10	--
--	11	EX WALL REC - SNACK BAR	--	--	--	20	1			0.0 / 0.0	1	20	--	--	--	EX COUNTER REC - SNACK...	12	--
--	13	EX COUNTER REC - SNACK...	--	--	--	20	1	0.0 / 0.0			1	20	--	--	--	EX EXHAUST FAN	14	--
--	15	EX EXHAUST FAN - SNACK...	--	--	--	20	1		0.0 / 0.0		1	20	--	--	--	EX EXHAUST FAN	16	--
--	17	EX EXHAUST FAN - SNACK...	--	--	--	20	1			0.0 / 0.0	1	20	--	--	--	EX EXHAUST FAN	18	--
--	19	EX EXHAUST FAN - SNACK...	--	--	--	20	1	0.0 / 0.0			1	20	--	--	--	EX COIL FEED - EF STARTERS	20	--
--	21	EX SPARE	--	--	--	20	1		0.0 / 0.0		1	30	--	--	--	EX HAND DRYER	22	--
--	23	EX BATH HOUSE - ENTRANC...	--	--	--	20	1			0.0 / 0.0	1	20	--	--	--	EX SPARE	24	--
--	25	EX 220V REC - SNACK BAR	--	--	--	20	1	0.0 / 0.0			2	20	--	--	--	EX AIR DOOR	26	--
--	27	EX 220V REC - SNACK BAR	--	--	--	20	1		0.0 / 0.0								28	
--	29	EX FRONT DOOR	--	--	--	20	1			0.0 / 0.0	2	20	--	--	--	EX SPARE	30	--
--	31	EX POOL DOOR	--	--	--	20	1	0.0 / 0.0									32	
--	33	EX SPARE	--	--	--	30	1		0.0 / 0.0		2	20	--	--	--	EX ICE MACHINE	34	--
--	35	EX SPARE	--	--	--	20	1			0.0 / 0.0							36	
						Total Load:		0.0 kVA	0.0 kVA	0.0 kVA								
						Total Amps:		0 A	0 A	0 A								

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0.0 kVA
				Total Est. Demand:	0.0 kVA
				Total Conn. Current:	0 A
				Total Est. Demand Current:	0 A

Notes:
1. PROVIDE NEW BRANCH CIRCUIT FROM EXISTING SPARE BREAKER.

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER
1-L - REFER TO ELECTRICAL RISER DIAGRAMS

#
#

COMMONWEALTH OF VIRGINIA
05/22/2026
JUSTIN T. OBENCHAIN
Lic. No. 058765
PROFESSIONAL ENGINEER

THIS DRAWING PREPARED AT THE CHARLOTTESVILLE OFFICE
608 Preston Avenue, Suite 200 | Charlottesville, VA 22903
TEL 434.295.5624 FAX 434.295.8317 www.timmons.com

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REVISION DESCRIPTION

DATE

DATE 05/22/2026
DRAWN BY CNM
DESIGNED BY CNM
CHECKED BY Checker
SCALE N/A

TIMMONS GROUP

MILLER PARK POOL
THE CITY OF LYNCHBURG

JOB NO. 57972.002
SHEET NO. E602

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P:\2025.31 Miller Park Pool Renovations\revit\support\Titleblocks\57972.002-310L-BD2436-LA.rfa\rvg | Plotted on ---- | by Jacob Caldwell

Salas O'Brien
salasobrien.com 540-952-9651
Project No: 2550-01750

Roanoke
119 Norfolk Avenue, Suite 310
Roanoke, Virginia 24011

DOMINION SEVEN d7 architects
1000 JEFFERSON STREET
SUITE 2A
LYNCHBURG, VIRGINIA 24504

434.528.4300
www.dominionseven.com

Branch Panel: L1P2

Location: Room 1
Supply From: L1P1
Mounting: Surface

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10,000
Enclosure: Type 1
Mains: 100A MCB

Phase in kVA

NOTE	CKT	CIRCUIT DESCRIPTION	WIRE	GND	BKR	A	B	C	BKR	GND	WIRE	CIRCUIT DESCRIPTION	CKT	NOTE
	1	REC - RM 101	2#12	1#12	20 1	1.1 / 0.7			1 20	1#12	2#12	REC - RM 100	2	
	3	EQP - MICROWAVE	2#12	1#12	20 1		1.0 / 1.5		1 20	1#12	2#12	EQP - REFRIGERATOR	4	G
	5	EQP - EUH-1	2#12	1#12	20 2			1.5 / 0.2	1 15	1#12	2#12	EQP - EF-1	6	
	7					1.5 / 0.2			1 20	1#12	2#12	LTG	8	
	9	EQP - AHU-1	2#12	1#12	15 2		0.3 / 2.1						10	
	11							0.3 / 2.1	2 25	1#10	2#10	EQP - HP-1	12	
--	13	SPARE	--	--	20 1	0.0 / 0.0			1 20	--	--	SPARE	14	--
--	15	SPARE	--	--	20 1		0.0 / 0.0		1 20	--	--	SPARE	16	--
--	17	SPARE	--	--	20 1			0.0 / 0.0	1 20	--	--	SPARE	18	--
--	19	SPARE	--	--	20 1	0.0 / 0.0			1 20	--	--	SPARE	20	--
--	21	SPARE	--	--	20 1		0.0 / 0.0		1 20	--	--	SPARE	22	--
--	23	SPACE	--	--	-- 1			0.0 / 0.0	1 20	--	--	SPARE	24	--
--	25	SPACE	--	--	-- 1	0.0 / 0.0			1 --	--	--	SPACE	26	--
--	27	SPACE	--	--	-- 1		0.0 / 0.0		1 --	--	--	SPACE	28	--
--	29	SPACE	--	--	-- 1			0.0 / 0.0	1 --	--	--	SPACE	30	--
--	31	SPACE	--	--	-- 1	0.0 / 0.0			1 --	--	--	SPACE	32	--
--	33	SPACE	--	--	-- 1		0.0 / 0.0		1 --	--	--	SPACE	34	--
--	35	SPACE	--	--	-- 1			0.0 / 0.0	1 --	--	--	SPACE	36	--
--	37	SPACE	--	--	-- 1	0.0 / 0.0			1 --	--	--	SPACE	38	--
--	39	SPACE	--	--	-- 1		0.0 / 0.0		1 --	--	--	SPACE	40	--
--	41	SPACE	--	--	-- 1			0.0 / 0.0	1 --	--	--	SPACE	42	--
				Total Load:		3.5 kVA	4.9 kVA	4.1 kVA						
				Total Amps:		29 A	41 A	35 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Heating	8.0 kVA	100.00%	8.0 kVA		
Lighting	0.2 kVA	125.00%	0.3 kVA	**Total Conn. Load:**	12.5 kVA
Receptacles	4.3 kVA	100.00%	4.3 kVA	**Total Est. Demand:**	12.5 kVA
				Total Conn. Current:	35 A
				Total Est. Demand Current:	35 A

Notes:

Abbreviations:
G - PROVIDE GFCI CIRCUIT BREAKER
1-L - REFER TO ELECTRICAL RISER DIAGRAMS

#
#

05/22/2026
JUSTIN T. OBENCHAIN
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REVISION DESCRIPTION

DATE

DATE 05/22/2026
DRAWN BY CNM
DESIGNED BY CNM
CHECKED BY Checker
SCALE N/A

MILLER PARK POOL
THE CITY OF LYNCHBURG

JOB NO. 57972.002
SHEET NO. E603

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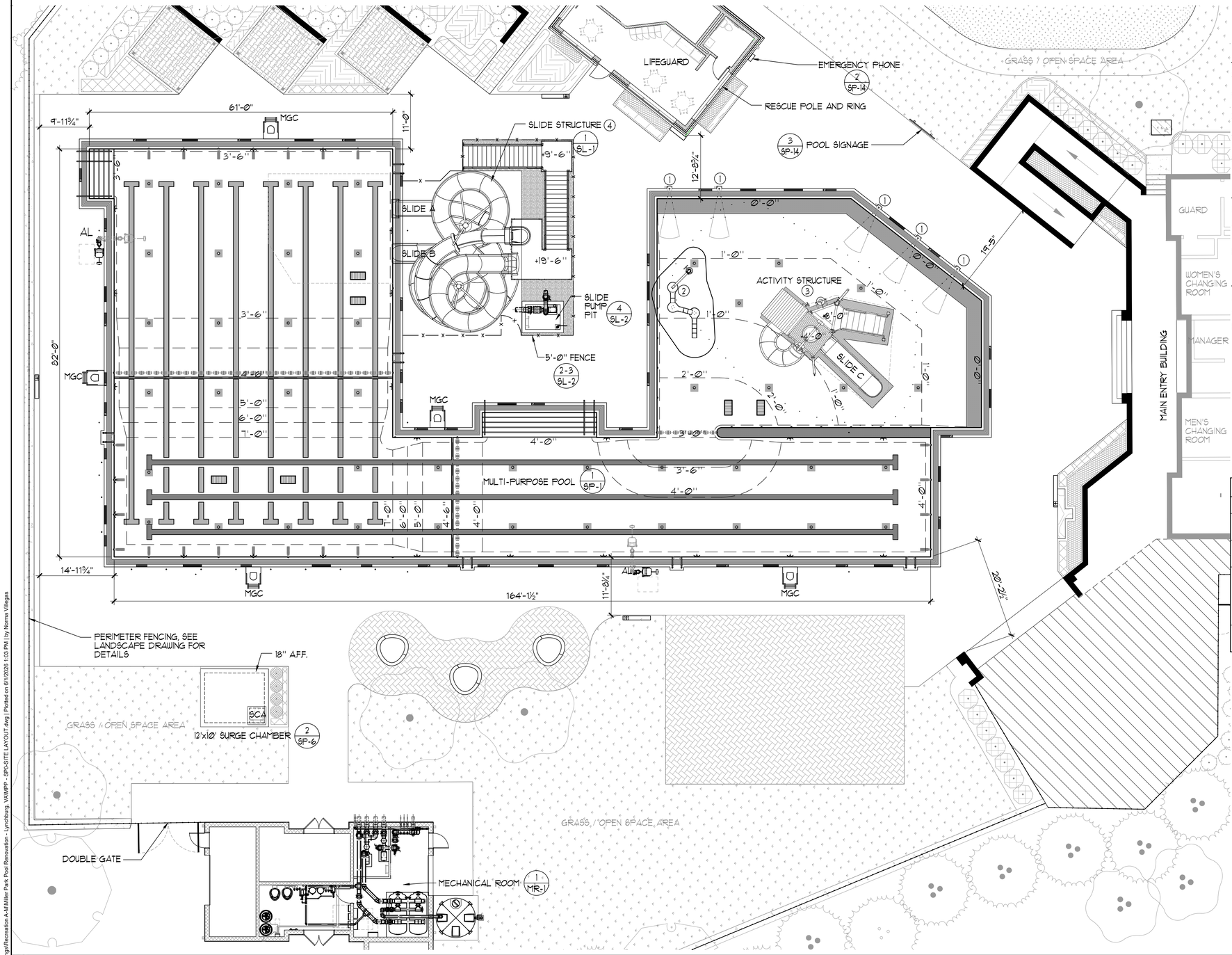
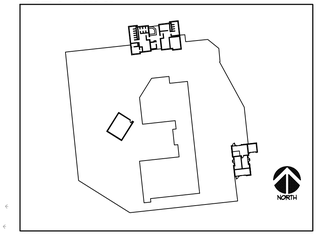


KEY MAP



MULTI-PURPOSE POOL DATA

SURFACE AREA	=	10,132 SQ. FT.
PERIMETER	=	615 FT.
DEPTH	=	0'-0" TO 7'-0"
VOLUME	=	239,960 GAL.
6 HR TURNOVER	=	667 GPM

SLIDE STRUCTURE DATA

LENGTH FLUME A	=	88.7 FT.
LENGTH FLUME B	=	141.9 FT.
HEIGHT	=	19'-6"
FLOW RATE	=	1,200 GPM

PLAY STRUCTURE DATA

LENGTH FLUME C	=	40.6 FT.
SLIDE HEIGHT	=	5'-0"
FLOW RATE	=	750 GPM

HEALTH DEPARTMENT NOTES:

1. MULTI-PURPOSE POOL PLASTER COLOR SHALL BE WHITE.
2. 6" WATERLINE TILE SHALL BE GLOSSY SMOOTH AND OF A CONTRASTING COLOR TO THE POOL PLASTER, AROUND THE ENTIRE POOL PERIMETER.
3. ALL MARKERS LOCATED ON THE DECK SHALL BE SLIP RESISTANT. SLIP RESISTANT IS CONSIDERED A WET COEFFICIENT OF FRICTION OF 0.6 OR GREATER.
4. NO BACKSTROKE STANCHIONS OR FLAGS SHALL BE IN USE OR PRESENT WITHIN THE SLIDE ENVELOPE (SHOWN AS DASHED LINE) WHEN SLIDES ARE IN USE. EQUALLY SLIDE USAGE SHALL NOT BE WHILE STANCHION ANCHORS AND BACKSTROKE FLAGS ARE IN USE.

WATER FEATURE PRODUCT LEGEND

	PRODUCT NAME/CODE	QTY
1	THE WAVE #0010-7486 'WATERPLAY'	5
2	POOLS & FALLS #A5901 'WHITEWATER' AQUAPLAY	1
3	'WHITEWATER' AQUAPLAY STRUCTURE (AP-150TB) WATER FEATURES (35 TOTAL) SEE SHOP DRAWINGS FOR LIST OF INDIVIDUAL FEATURES	1
4	SLIDE STRUCTURE	1

LEGEND

AL	=	ACCESSIBLE LIFT — 1 SP-9
SCA	=	SURGE CHAMBER ACCESS
MGC	=	MOVEABLE GUARD CHAIR

NORTH

AQUATIC DESIGN GROUP
2226 Faraday Ave. Carlsbad, CA 92008
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1 **SITE PLAN** 1"=10'-0"

COMMONWEALTH OF VIRGINIA
MARTELL MONTGOMERY
No. 0402065200
PROFESSIONAL ENGINEER

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DATE

TIMMONS GROUP

MILLER PARK POOL
THE CITY OF LYNCHBURG
SITE PLAN

DATE 05/29/2026
DRAWN BY NMV
DESIGNED BY GSF
CHECKED BY GSF
SCALE AS SHOWN

JOB NO. 57972.002
SHEET NO. SP-0

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M:\Drawings\Recreation A-M\Miller Park Pool Renovation - Lynchburg, VA\MPP - SP0-SITE LAYOUT.dwg | Plotted on 6/1/2026 1:03 PM | by Norma Villegas

SLIDE PUMP

	PRODUCT NAME/CODE	QTY	TOTAL FLOW
③	42164 SK-II SLIDE #A 'WHITEWATER'	1	600 GPM
④	42164 SK-II SLIDE #B 'WHITEWATER'	1	600 GPM
	TOTAL SLIDE BOOSTER PUMP FLOW		1,200 GPM TOTAL

WATER BOOSTER PUMP

	PRODUCT NAME/CODE	QTY	TOTAL FLOW	
①	THE WAVE #0010-7486 'WATERPLAY'	5	15 GPM	5 / SP-10
②	POOLS & FALLS #A5901 'WHITEWATER' AQUAPLAY	1	75 GPM	3 / SP-9
⑤	'WHITEWATER' AQUAPLAY STRUCTURE (AP-150TB) WATER FEATURES (35 TOTAL) SEE SHOP DRAWINGS FOR LIST OF INDIVIDUAL FEATURES	1	750 GPM TOTAL	1-4 / SP-11
	TOTAL POOL BOOSTER PUMP FLOW		840 GPM TOTAL	

MULTI-PURPOSE POOL DATA

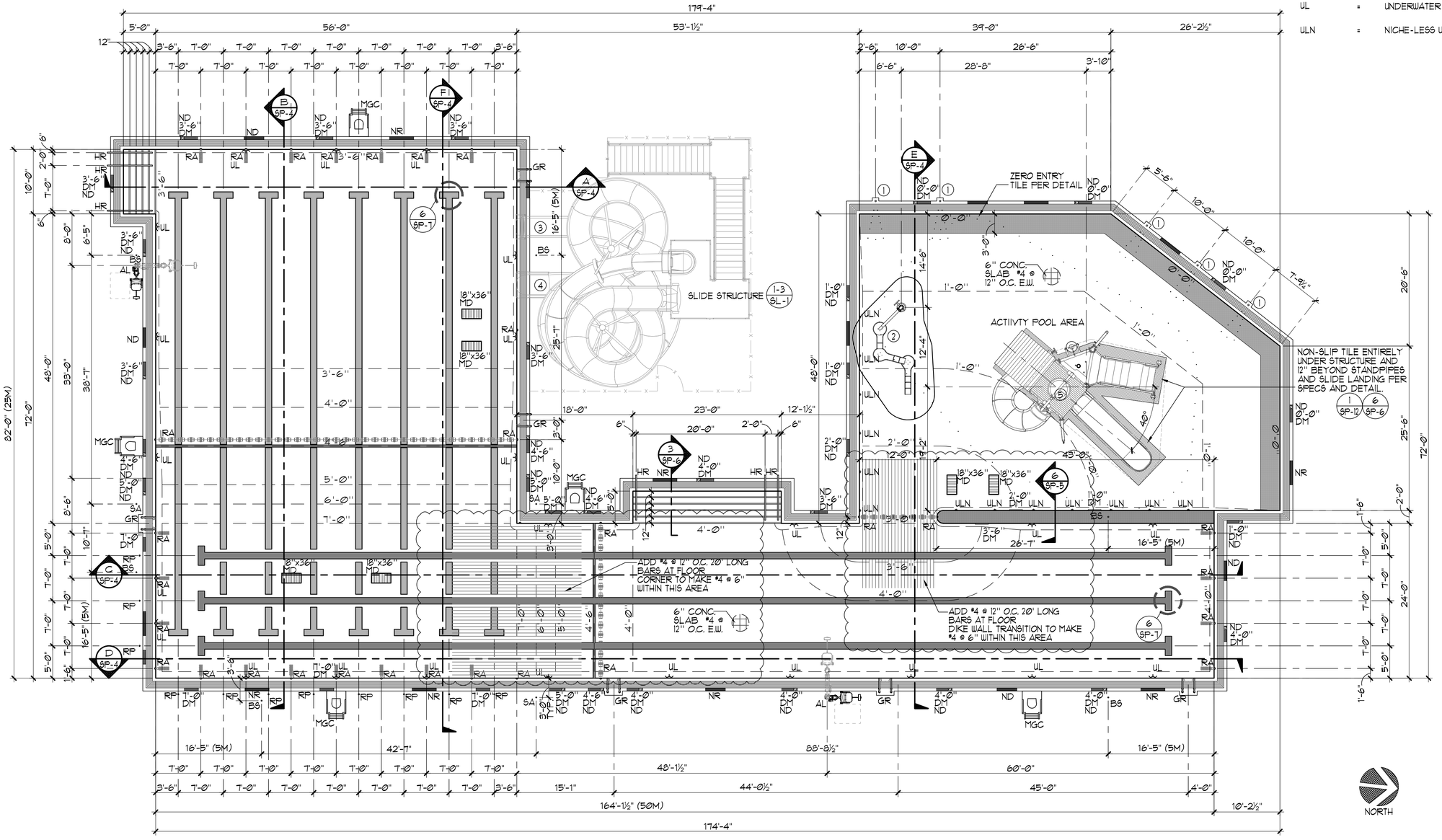
SURFACE AREA	=	10,132 SQ. FT.
PERIMETER	=	615 FT.
DEPTH	=	0'-0" TO 7'-0"
VOLUME	=	239,960 GAL.
6 HR CIRC. PUMP TURNOVER	=	667 GPM

NOTE:

1. FOR FLOOR INLET AND MAIN DRAIN DIMENSIONED LOCATIONS, PLEASE SEE SHEET SP-2
2. FOR UNDERWATER LIGHT DIMENSIONED LOCATIONS, PLEASE SEE SHEET SP-3

LEGEND

MD	=	MAIN DRAIN	1 / SP-10
GR	=	GRABRAIL	3 / SP-8
DM	=	DEPTH MARKER	1 / SP-8
NR	=	'NO RUNNING'	4 / SP-7
ND	=	'NO DIVING'	4-5 / SP-7
RA	=	ROPE ANCHOR	2 / SP-8
RP	=	RACING PLATFORM	4 / SP-8
BS	=	BACKSTROKE STANCHION	2 / SP-9
SA	=	STANCHION ANCHOR	2-3 / SP-9
HR	=	HANDRAIL	1 / SP-6 ; 3 / SP-6
AL	=	ACCESSIBLE LIFT	1 / SP-9
MGC	=	MOVEABLE GUARD CHAIR	4 / SP-9
UL	=	UNDERWATER LIGHT	1 / SP-13
ULN	=	NICHE-LESS UNDERWATER LIGHT	1½ / SP-14



1 **MULTI-PURPOSE POOL LAYOUT PLAN** 1/8"=1'-0"

COMMONWEALTH OF VIRGINIA
GREGORY S. FERRELL
REGISTERED
ARCHITECT

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DATE

DATE 05/29/2026
DRAWN BY NMV
DESIGNED BY GSF
CHECKED BY GSF
SCALE AS SHOWN

TIMMONS GROUP

MILLER PARK POOL
THE CITY OF LYNCHBURG
MULTI-PURPOSE POOL LAYOUT PLAN

JOB NO. 57972.002
SHEET NO. SP-1

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AquaticDesignGroup.com
760.438.8400

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M:\Drawings\Recreation A-M\Miller Park Pool Renovation - Lynchburg, VA\MPP - SP1-SP LAYOUT.dwg | Plotted on 7/14/2026 2:37 PM | by Greg Ferrell

MULTI-PURPOSE POOL DATA

SURFACE AREA	=	10,132 SQ. FT.
PERIMETER	=	615 FT.
DEPTH	=	0'-0" TO 7'-0"
VOLUME	=	239,960 GAL.
6 HR TURNOVER	=	667 GPM

SLIDE STRUCTURE DATA

LENGTH FLUME A	=	88.7 FT.
LENGTH FLUME B	=	141.9 FT.
HEIGHT	=	19'-6"
FLOW RATE	=	1,200 GPM

PLAY STRUCTURE DATA

LENGTH FLUME C	=	40.6 FT.
SLIDE HEIGHT	=	5'-0"
FLOW RATE	=	750 GPM

HEALTH DEPARTMENT NOTES:

1. MULTI-PURPOSE POOL PLASTER COLOR SHALL BE WHITE.
2. 6" WATERLINE TILE SHALL BE GLOSSY SMOOTH AND OF A CONTRASTING COLOR TO THE POOL PLASTER, AROUND THE ENTIRE POOL PERIMETER.
3. ALL MARKERS LOCATED ON THE DECK SHALL BE SLIP RESISTANT. SLIP RESISTANT IS CONSIDERED A WET COEFFICIENT OF FRICTION OF 0.6 OR GREATER.
4. NO BACKSTROKE STANCHIONS OR FLAGS SHALL BE IN USE OR PRESENT WITHIN THE SLIDE ENVELOPE (SHOWN AS DASHED LINE) WHEN SLIDES ARE IN USE. EQUALLY SLIDE USAGE SHALL BE WHILE STANCHION ANCHORS AND BACKSTROKE FLAGS ARE IN USE.

WATER FEATURE PUMP

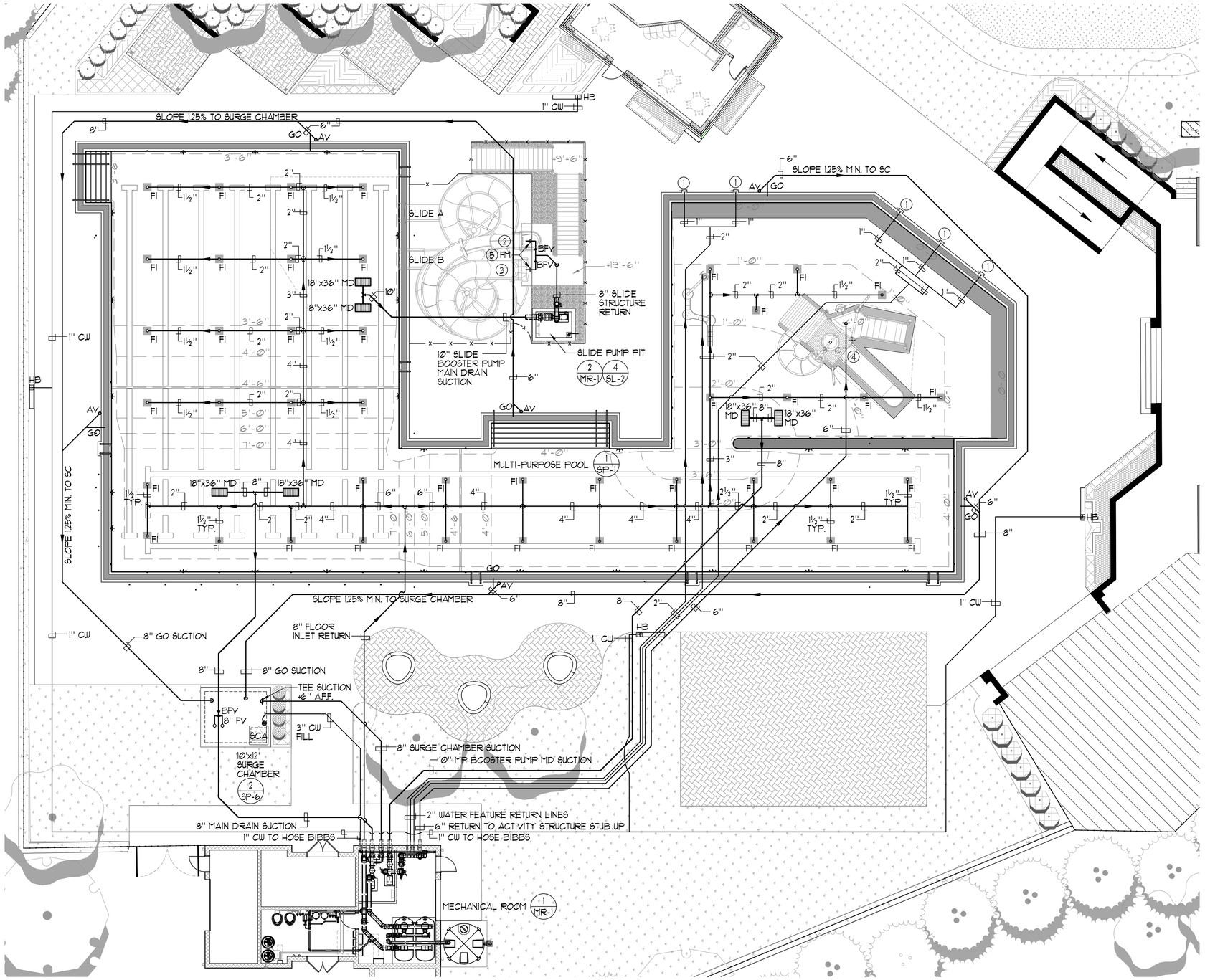
	PRODUCT NAME/CODE	QTY	TOTAL FLOW	
①	THE WAVE #0010-7486 'WATERPLAY'	5	15 GPM	1 SP-12
②	POOLS & FALLS #AS9001 'WHITEWATER' AQUAPLAY	1	75 GPM	4 SP-11
⑤	'WHITEWATER' AQUAPLAY STRUCTURE (AP-150TB) WATER FEATURES (95 TOTAL) SEE SHOP DRAWINGS FOR LIST OF INDIVIDUAL FEATURES	1	750 GPM TOTAL	3-4 SP-12
	TOTAL POOL BOOSTER PUMP FLOW		840 GPM TOTAL	

SLIDE PUMP/EQUIPMENT

	PRODUCT NAME/CODE	QTY	TOTAL FLOW	
③	42164 SK-11 SLIDE #A 'WHITEWATER'	1	600 GPM	3-4 SP-12
④	42164 SK-11 SLIDE #B 'WHITEWATER'	1	600 GPM	
⑤	'SIGNET' DIGITAL FLOWMETER	2		
	TOTAL SLIDE BOOSTER PUMP FLOW		1,200 GPM TOTAL	

LEGEND

MD	=	MAIN DRAIN — 1 SP-10
FI	=	FLOOR INLET — 2 SP-10
GO	=	GUTTER OUTLET — 4 SP-10
AV	=	AIR VENT — 5 SP-10
SCA	=	SURGE CHAMBER ACCESS — 4 SP-6
BFV	=	BUTTERFLY VALVE — 2 SP-11



NORTH

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1 MULTI-PURPOSE POOL PIPING PLAN 1"=10'-0"

COMMONWEALTH OF VIRGINIA
MARTELL MONTGOMERY
No. 0402065200
PROFESSIONAL ENGINEER

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TIMMONS GROUP

MILLER PARK POOL
THE CITY OF LYNCHBURG
MULTI-PURPOSE POOL PIPING PLAN

REVISION DESCRIPTION	DATE

DATE 05/29/2026
DRAWN BY NMV
DESIGNED BY GSF
CHECKED BY GSF
SCALE AS SHOWN

JOB NO. 57972.002
SHEET NO. SP-2

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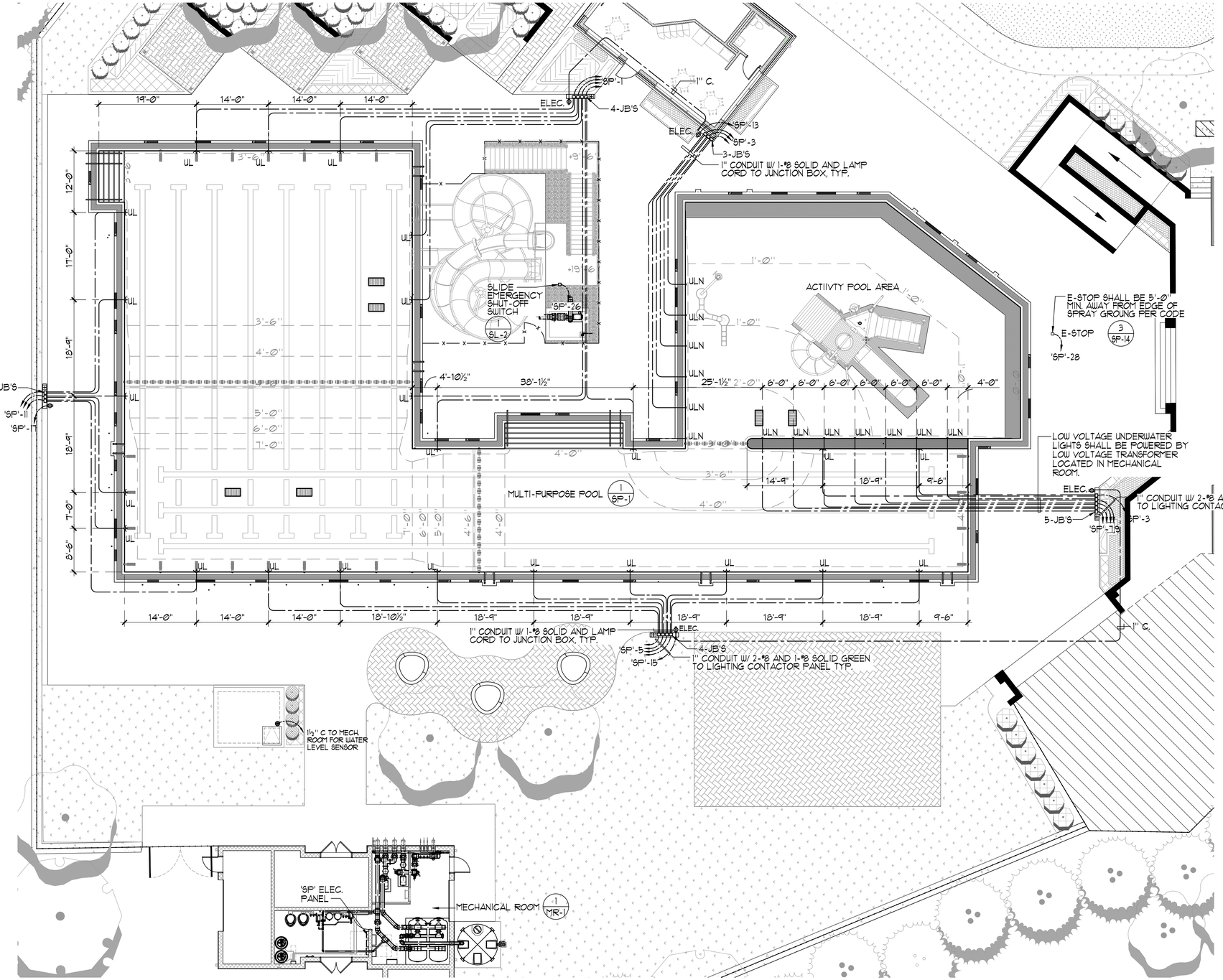
LEGEND

E-STOP	=	EMERGENCY STOP — 3/SP-14, 1/SL-2
JB	=	JUNCTION BOX — 2/SP-13
UL	=	UNDERWATER LIGHT — 1/SP-13
ULN	=	NICHELESS (LOW VOLTAGE) UNDERWATER LIGHT — 1/SP-14



1 **MULTI-PURPOSE POOL UNDERWATER LIGHT PLAN** 1"=10'-0"

COMMONWEALTH OF VIRGINIA
MARTELL MONTGOMERY
No. 0402065200
PROFESSIONAL ENGINEER

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TIMMONS GROUP

MILLER PARK POOL
THE CITY OF LYNCHBURG

MULTI-PURPOSE POOL UNDERWATER LIGHT PLAN

AQUATIC DESIGN GROUP
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760.438.8400

JOB NO. 57972.002
SHEET NO. SP-3

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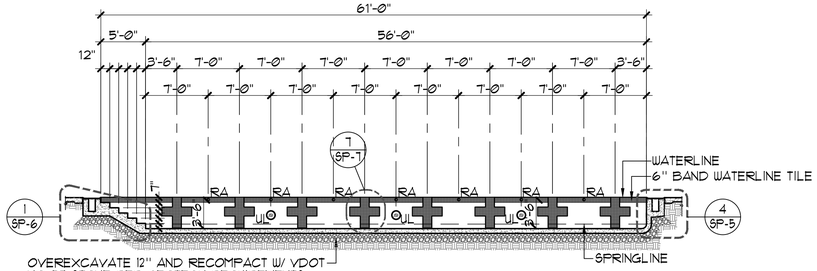
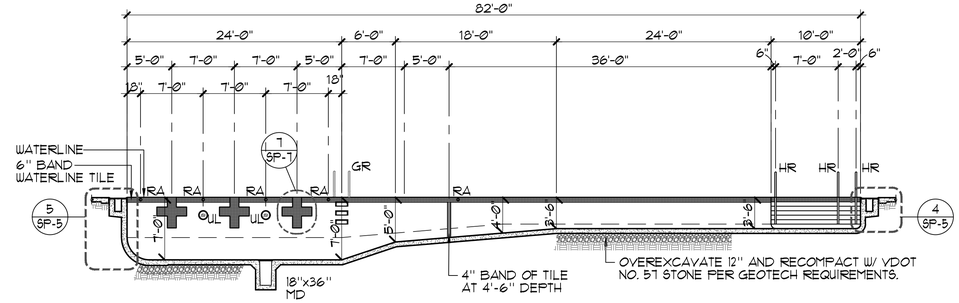


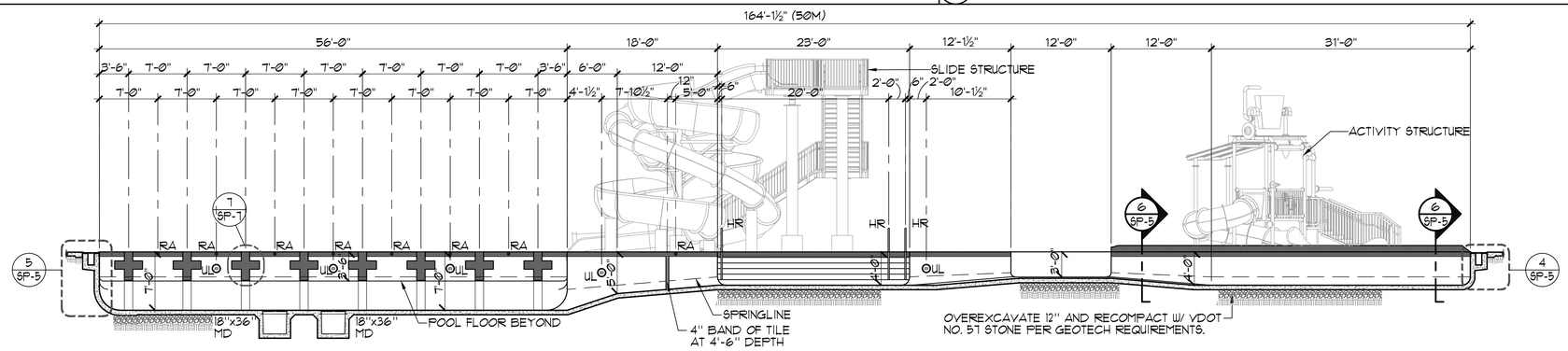
A MULTI-PURPOSE POOL SECTION

1/8"=1'-0"



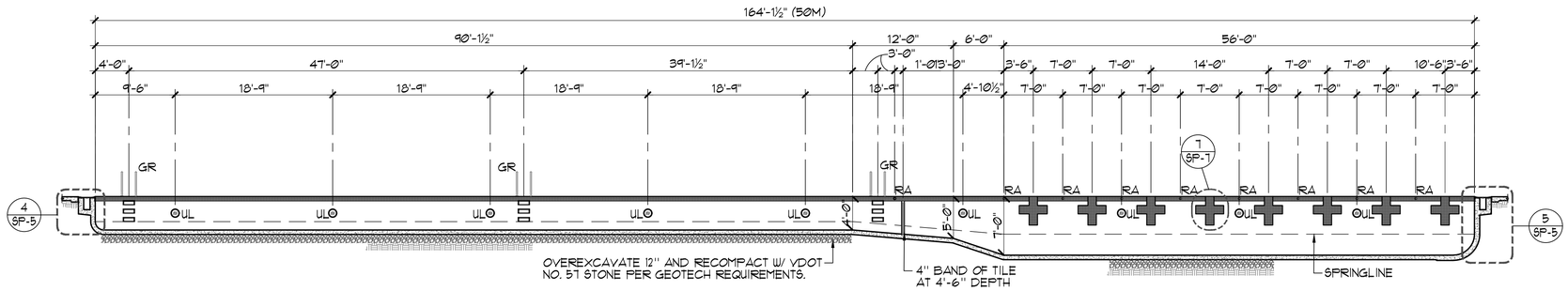
B MULTI-PURPOSE POOL SECTION

1/8"=1'-0"



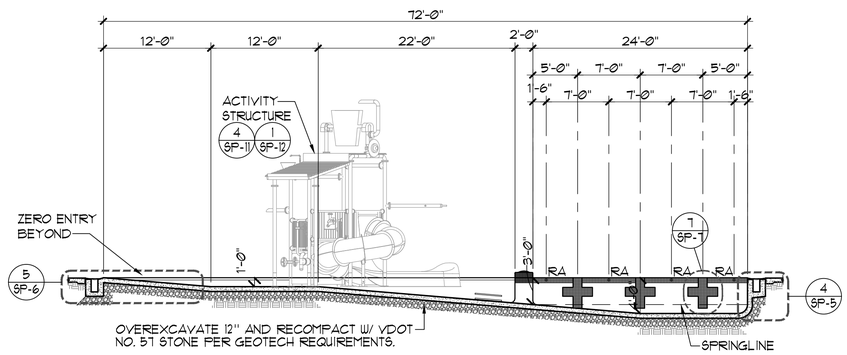
C MULTI-PURPOSE POOL SECTION

1/8"=1'-0"



D MULTI-PURPOSE POOL SECTION

1/8"=1'-0"



E MULTI-PURPOSE POOL SECTION

1/8"=1'-0"

COMMONWEALTH OF VIRGINIA
MARTELL MONTGOMERY
No. 0402065200
PROFESSIONAL ENGINEER

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TIMMONS GROUP

MILLER PARK POOL
THE CITY OF LYNCHBURG
MULTI-PURPOSE POOL SECTIONS

JOB NO. 57972.002
SHEET NO. SP-4

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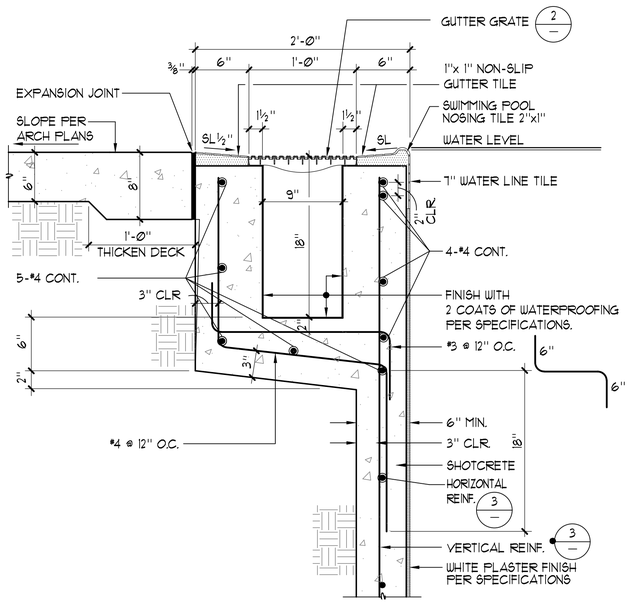
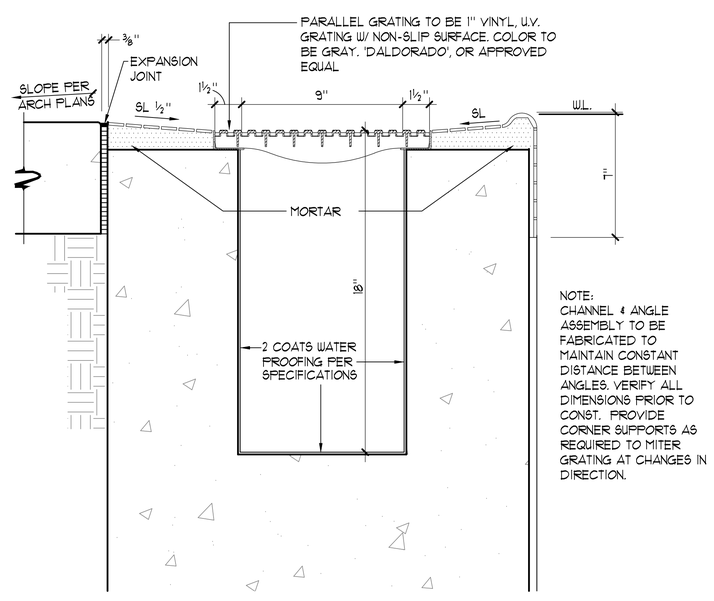


1 RIM FLOW GUTTER 1½"=1'-Ø"



2 RIM FLOW GUTTER/GRATE 3"=1'-Ø"

REINFORCEMENT TABLE

WATER DEPTH	't'	'ds'	RADIUS	VERTICAL REINF.	HORIZONTAL REINF.	TRANSITION TO FLOOR REINF. BEYOND END RADIUS
3'-6" TO 5'-Ø"	7"	4"	6" TO 18"	#4 @ 12" O.C.	#4 @ 12" O.C.	24"
5'-1" TO 7'-Ø"	8"	5"	18" TO 2'-6"	#4 @ 6" O.C.	#4 @ 8" O.C.	24"

CONCRETE NOTES:

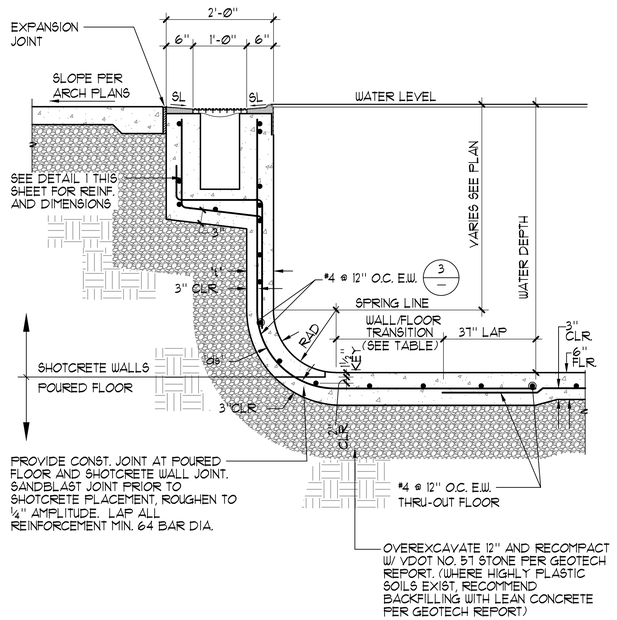
1. THE MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS WITH A 0.40-0.50 WATER/CEMENT RATIO
   POOL = 4000 PSI
   SLAB-ON-GRADE = 4000 PSI
2. CONTINUOUS INSPECTION BY AN APPROVED INSPECTOR IS REQUIRED OF ALL CONCRETE PLACEMENT.
3. ALL CEMENT USED SHALL CONFORM TO A.S.T.M. C-150 TYPE II
4. FINE AND COARSE AGGREGATE SHALL CONFORM TO A.S.T.M. C-33. MAXIMUM SIZE OF AGGREGATE TO BE 1".
5. CONCRETE MIX DESIGNS SHALL BE BASED UPON ACI 318
6. CONCRETE SHALL BE TESTED AND INSPECTED PER SECTION IBC 1705.3 AND ACI 318
7. REMOVAL OF FORMS SHALL COMPLY WITH ACI 318
8. ALL REINFORCING SHALL BE ASTM A-615, GRADE 60, UNLESS OTHERWISE NOTED. LAPS SHALL BE 64 BAR DIA.

SHOTCRETE NOTES:

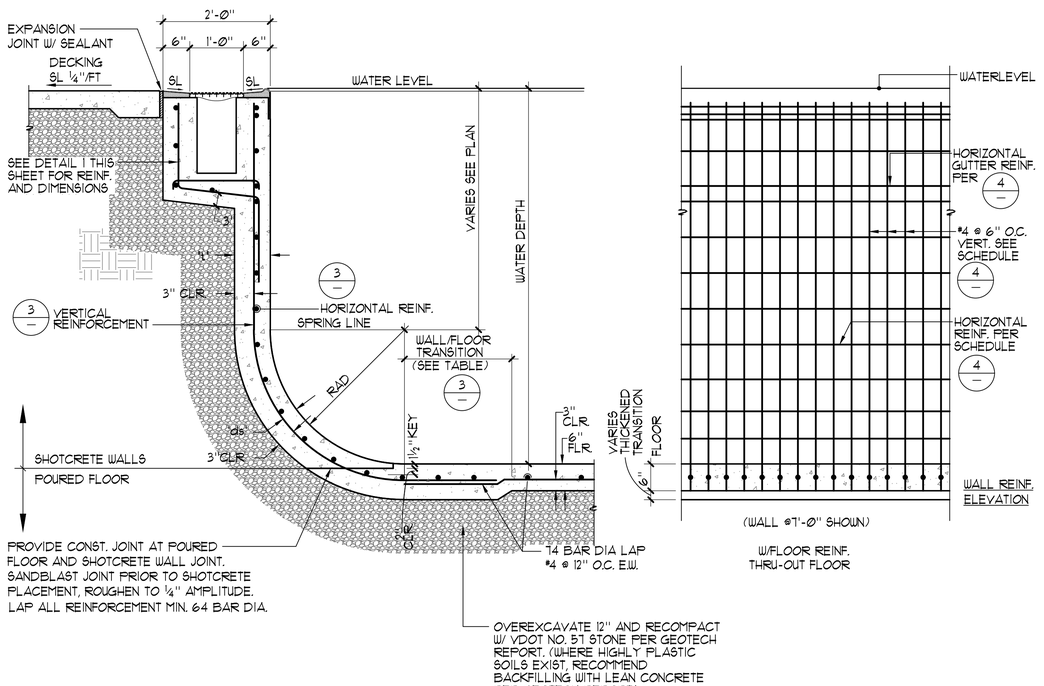
1. SHOTCRETE SHALL BE WET-MIX AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS. SHOTCRETE MATERIAL SHALL HAVE A WATER/CEMENT RATIO OF 0.40-0.50 SHOTCRETE MATERIALS MIXTURE DESIGN PROPORTIONING, PLACEMENT, CURING, AND TESTING SHALL BE PER ACI 318
2. CONTINUOUS INSPECTION BY AN APPROVED INSPECTOR IS REQUIRED OF ALL SHOTCRETE PLACEMENT PER ACI-318.
3. ALL CEMENT USED SHALL CONFORM TO A.S.T.M. C-150 TYPE II
4. FINE AND COARSE AGGREGATE SHALL CONFORM TO A.S.T.M. C-33. MAXIMUM SIZE OF AGGREGATE TO BE 3/8".
5. SHOTCRETE SHALL BE TESTED AND INSPECTED PER IBC 1705.3 AND ACI 318.
6. ANCHOR BOLTS, ANCHORS, DOWELS, INSERTS, ETC. SHALL BE SECURELY TIED IN PLACE PRIOR TO PLACING OF SHOTCRETE.
7. ALL REINFORCEMENT WITHIN SHOTCRETE SHALL MAINTAIN THE LESSER OF 6 BAR DIA. AND 2½" CLEAR NON-CONTACT SPLICES.
8. THE FILM OF LAITANCE WHICH FORMS ON THE SURFACE OF THE SHOTCRETE SHALL BE REMOVED WITHIN APPROXIMATELY TWO HOURS AFTER APPLICATION BY BRUSHING WITH A STIFF BROOM. IF THIS IS NOT REMOVED WITHIN TWO HOURS, IT SHALL BE REMOVED BY THOROUGH WIRE BRUSHING OR SAND BLASTING. CONSTRUCTION JOINTS OVER EIGHT HOURS OLD SHALL BE THOROUGHLY CLEANED WITH AIR AND WATER PRIOR TO RECEIVING SHOTCRETE.
9. ALL REINFORCING SHALL BE ASTM A-615, GRADE 60, UNLESS OTHERWISE NOTED. LAP SPLICES SHALL BE 64 BAR DIA. NON-CONTACT LAP SPLICES SHALL HAVE CLEAR SPARING BETWEEN BARS THE GREATER OF 6 BAR DIA AND 2½". REINFORCING SHALL CONFORM TO ACI 318.

NON-STRUCTURAL FORM WORK BARS AND STABILIZERS SHALL BE NON-FERROUS MATERIALS AND ARE NOT CONSIDERED PART OF STRUCTURAL REINFORCING.

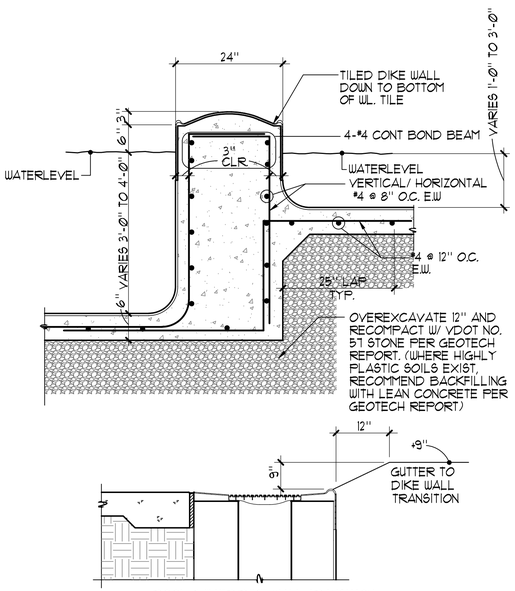
3 REINFORCEMENT TABLE



4 POOL WALL 0'-0" TO 5'-0" ¾"=1'-Ø"



5 POOL WALL 5'-1" TO 7'-0" ¾"=1'-Ø"



6 DIKE WALL DETAIL ¾"=1'-Ø"

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MILLER PARK POOL
THE CITY OF LYNCHBURG
POOL DETAILS

JOB NO. 57972.002
SHEET NO. SP-5

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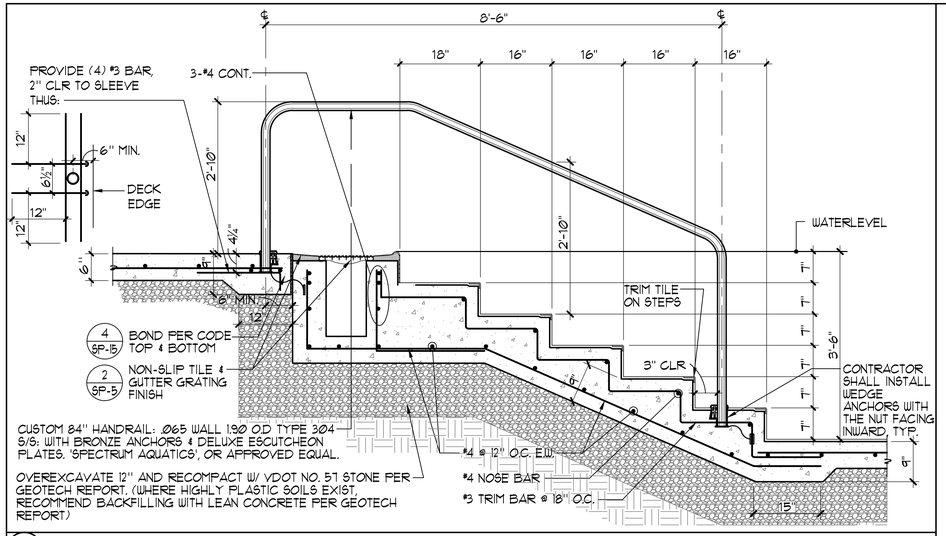
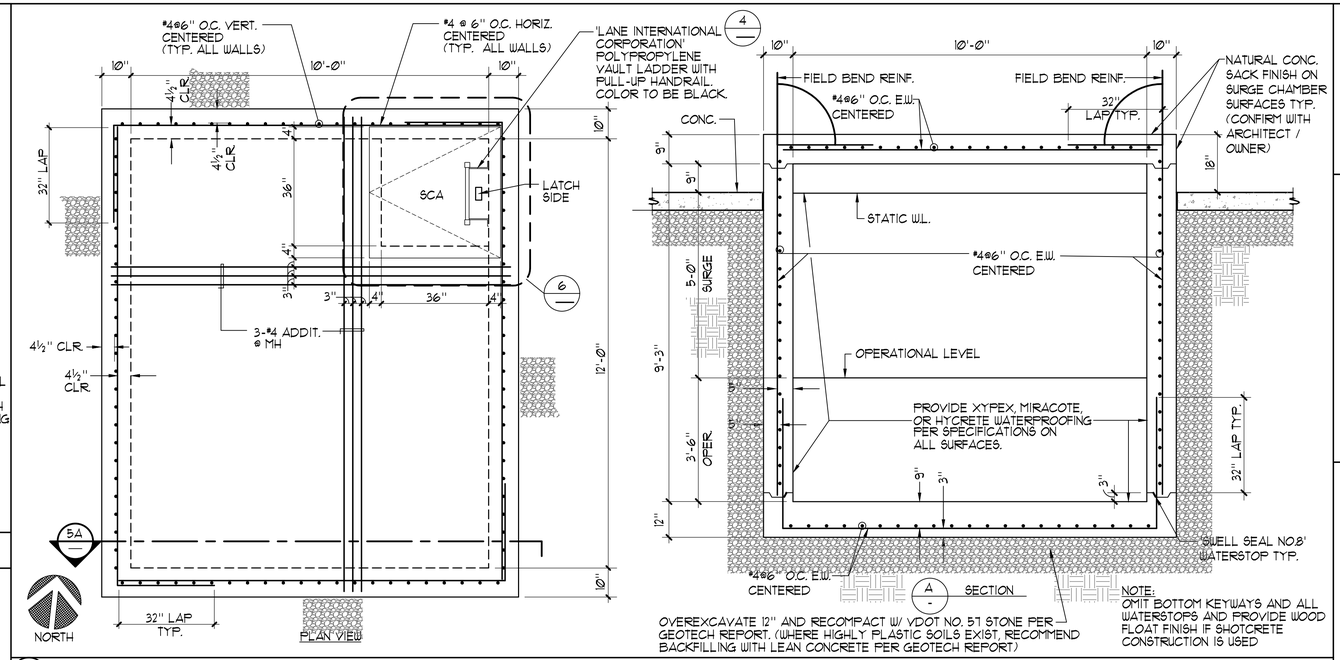


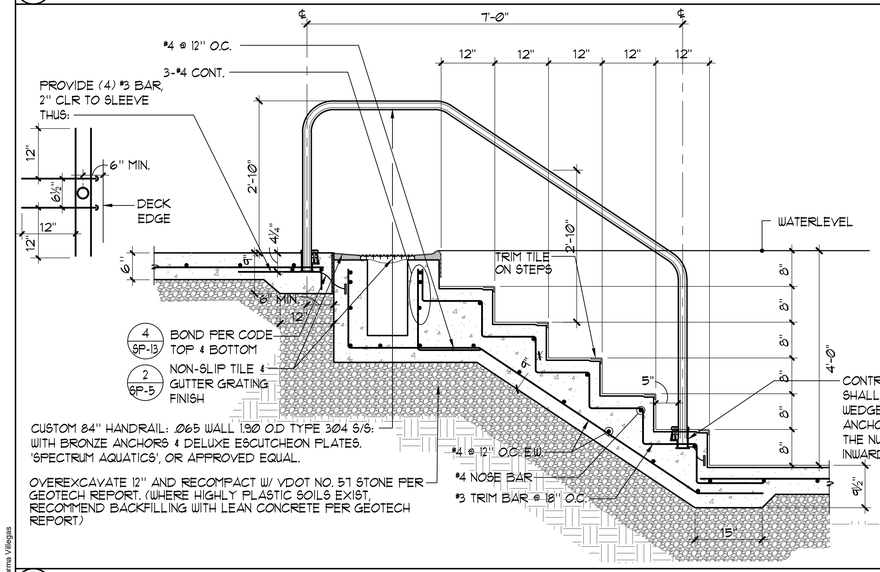
1 MULTI-PURPOSE POOL HANDRAIL DETAIL

¾"=1'-Ø"



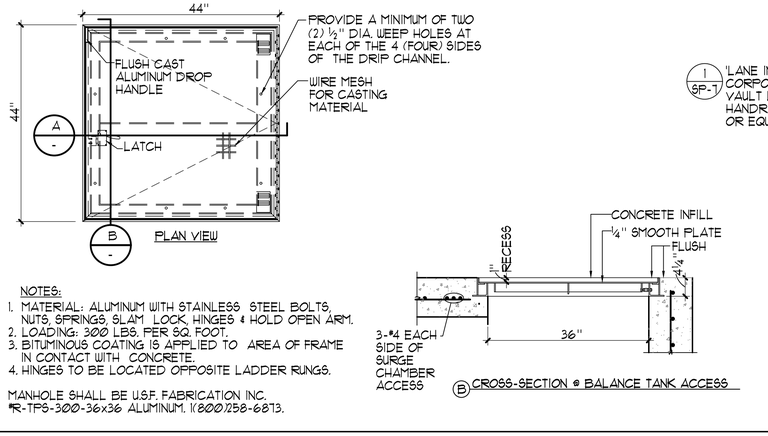
2 ACTIVITY POOL SURGE CHAMBER

½"=1'-Ø"



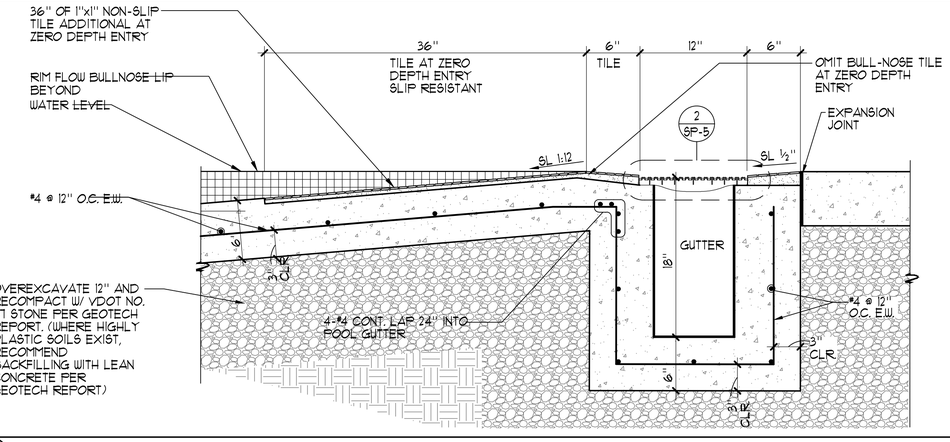
3 MULTI-PURPOSE POOL HANDRAIL DETAIL

¾"=1'-Ø"



4 SURGE CHAMBER ACCESS COVER

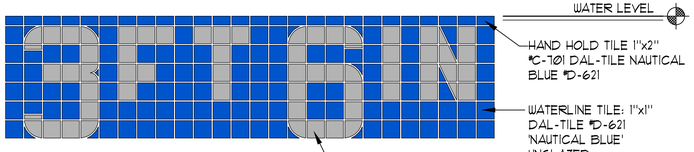
¾"=1'-Ø"



5 ZERO DEPTH ENTRY SECTION

1½"=1'-Ø"

RIM FLOW GUTTER TILE PACKAGE ELEVATION



TILE LOCATION	SIZE	TYPE	COLOR
WATERLINE AND DIKE WALL TILE	1"x1"	UN-GLAZED	NAUTICAL BLUE
HANDHOLD TILE	1"x2"	UN-GLAZED	NAUTICAL BLUE
STAIR TRIM TILE	2"x6"	NON-SLIP	BLACK
DEPTH MARKERS	1"x1"	NON-SLIP	DESERT GREY LETTER/NUMBERS
DEPTH/ CAUTION MARKERS (DECK)	1"x1"	NON-SLIP	DESERT GREY LETTERS/ NUMBERS
TARGET/LANE LINE TILE	1"x1"	NON-SLIP	BLACK
FLOOR INLET TILE	2"x2"	NON-SLIP	ARCTIC WHITE
ACTIVITY STRUCTURE/ZERO DEPTH ENTRY TILE	1"x1"	NON-SLIP	ARCTIC WHITE
4" WIDE 4'-6" DEPTH TILE STRIP	1"x1"	NON-SLIP	SUEDE GRAY

6 TILE SCHEDULE AND COLOR CHART

NO SCALE

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THE CITY OF LYNCHBURG
POOL DETAILS

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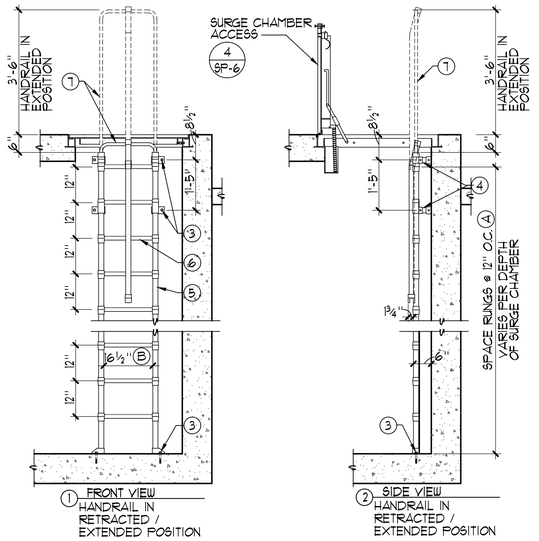
CONTRACTOR TO VERIFY:

Ⓐ OVERALL LADDER HEIGHT

Ⓑ LADDER WIDTH

'LANE INTERNATIONAL CORPORATION' POLYPROPYLENE VAULT LADDER WITH FULL-UP HANDRAIL. COLOR TO BE BLACK. OR EQUAL



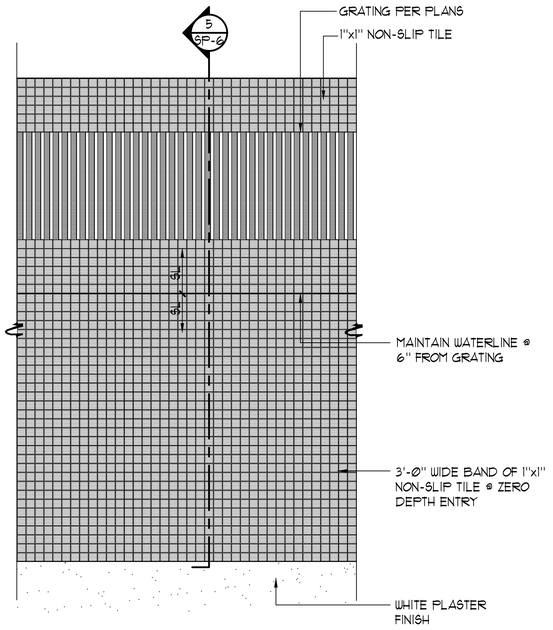
① FRONT VIEW HANDRAIL IN RETRACTED / EXTENDED POSITION

② SIDE VIEW HANDRAIL IN RETRACTED / EXTENDED POSITION

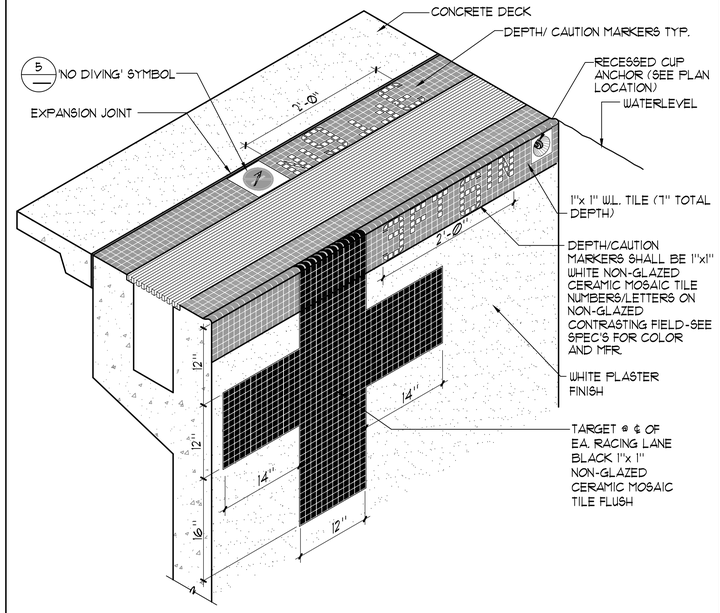
NOTES:

1. LADDERS WITH PULL-UP HANDRAIL AVAILABLE IN 5 RUNG THROUGH 25 RUNG.
2. POLYPROPYLENE CONFORMS TO ASTM D-4101. LADDERS MEET ALL ASTM C-497 LOAD REQUIREMENTS AND OSHA 1910.26 AND 1910.27 SPECIFICATIONS.
3. FASTEN LADDER TO FLOOR AND WALL WITH ½"ø STAINLESS STEEL HILTI KB TZ2 (ESR 4266) W/ 2" MIN. EMBED TYP.
4. STANDARD ADJUSTABLE MOUNTING BRACKET - 8" O.D.
5. ALUMINUM REINFORCED COPOLYMER POLYPROPYLENE RAIL 1¾" x 1¾" DIA.
6. STEEL REINFORCED COPOLYMER POLYPROPYLENE RUNG 1⅜" x 1¼" DIA. WITH MOLDED FINGER GRIPS, 12" C.C.
7. ALUMINUM AND STEEL REINFORCED COPOLYMER POLYPROPYLENE FULL-UP HANDRAIL.

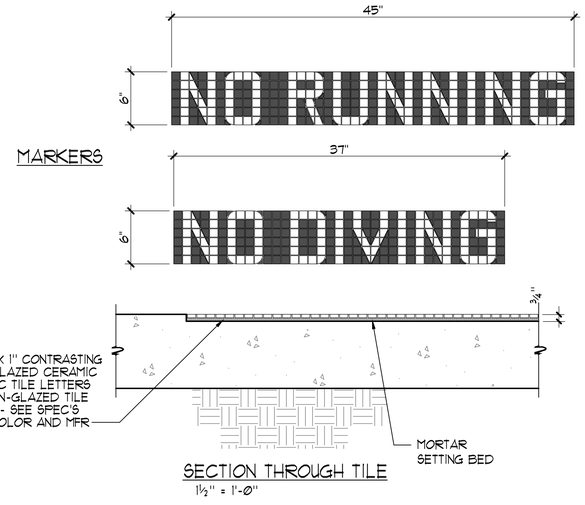
① SURGE CHAMBER ACCESS LADDER ½"=1'-Ø"



② ZERO DEPTH ENTRY PLAN 1½"=1'-Ø"



③ TYPICAL RIM FLOW GUTTER PERSPECTIVE NO SCALE

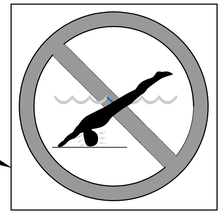


SECTION THROUGH TILE
1½" = 1'-Ø"

④ 'NO RUNNING' / 'NO DIVING' MARKERS 1½"=1'-Ø"

SILK SCREEN

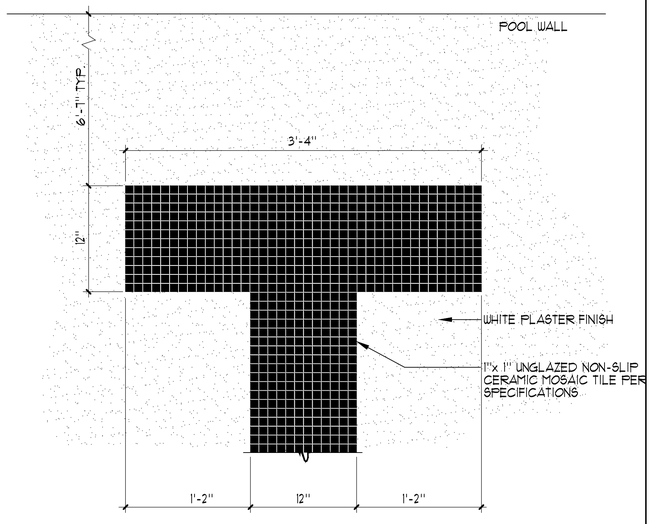
1. INLAYS DOUBLE GLAZED WHITE SLIP RESISTANT TILE TYP. OF (1) PIECE OVER ¼" MORTAR BED WITH 1/16" GROUT JOINTS. SEE PLAN FOR LOCATION.
2. 1" WIDE RED CIRCLE WITH 1" WIDE RED DIAGONAL LINE.
3. ⅛" BLUE WATER.
4. 1/16" RED TICKS ABOUT THE HEAD.
5. TAN COLOR BODY WITH BLACK OUTLINE, HAIR AND TRUNKS.
6. ⅛" BLACK POOL FLOOR.



REFER TO DEPTH MARKERS DETAIL FOR DIMENSIONS & LOCATIONS.
1
SP-8

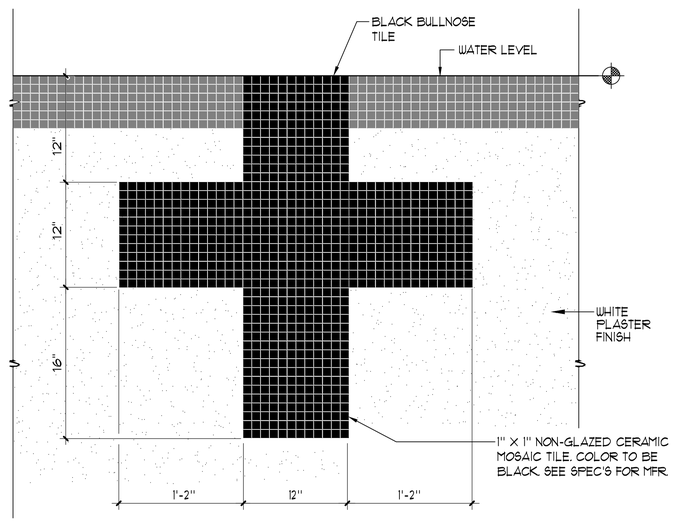
NOTE: PLACE IN DECK AT ALL DEPTH MARKER LOCATION OF 6'-Ø" OR LESS

⑤ INTERNATIONAL "NO DIVING" MARKER 3"=1'-Ø"



PLAN VIEW

⑥ RACING LANE LINE 1½"=1'-Ø"



⑦ END WALL TARGETS 1½" = 1'-Ø"

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THE CITY OF LYNCHBURG
POOL DETAILS

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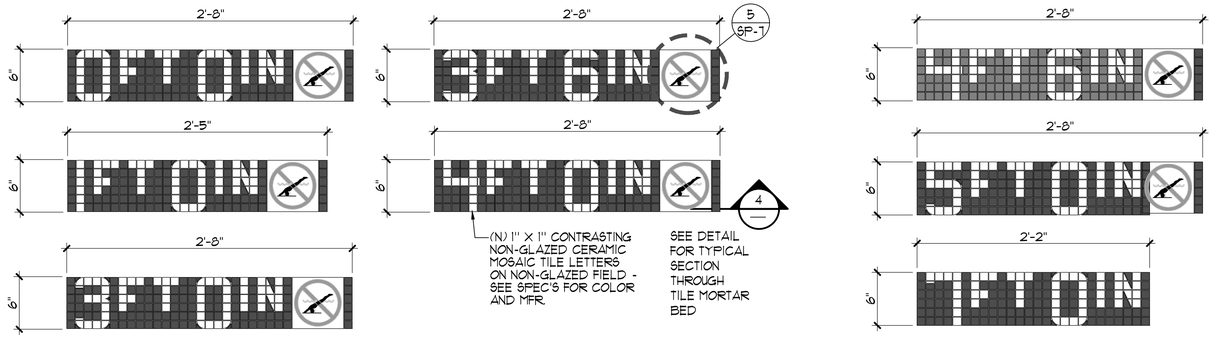
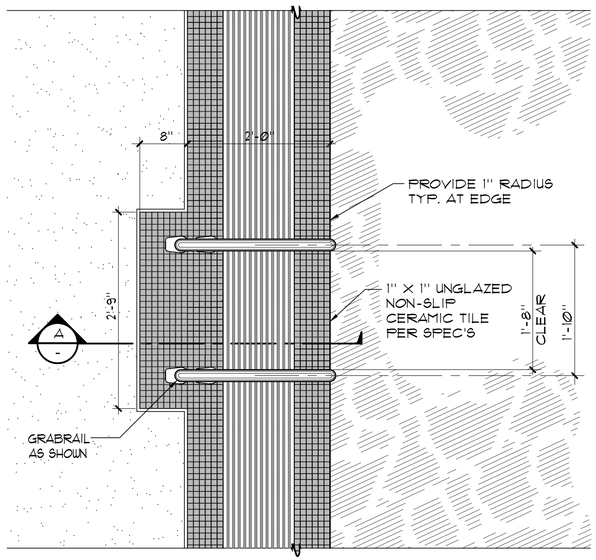
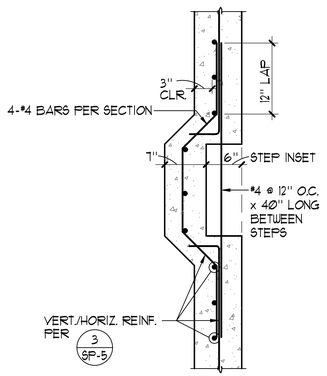


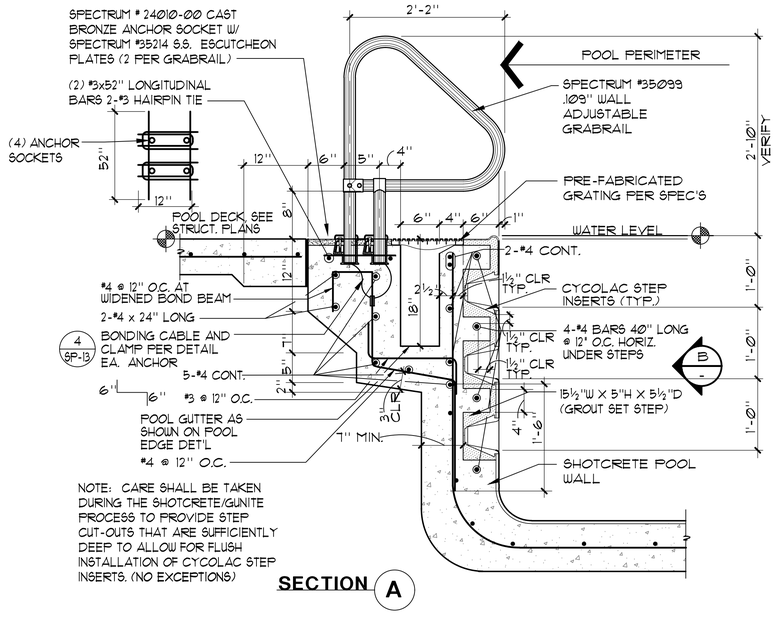
1 DEPTH MARKERS

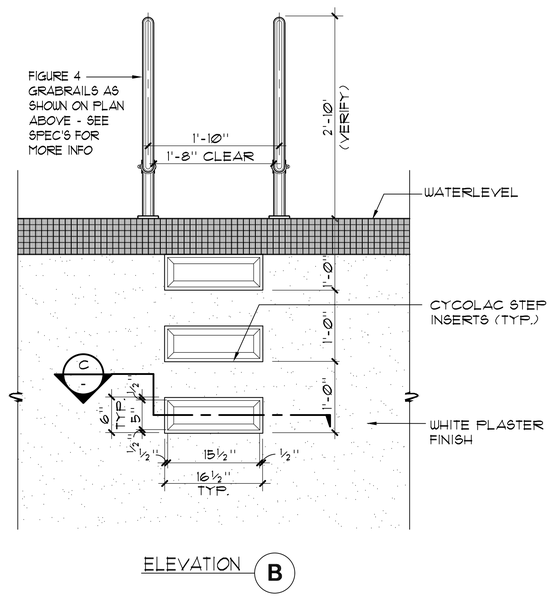
1½" = 1'-Ø"





SECTION C

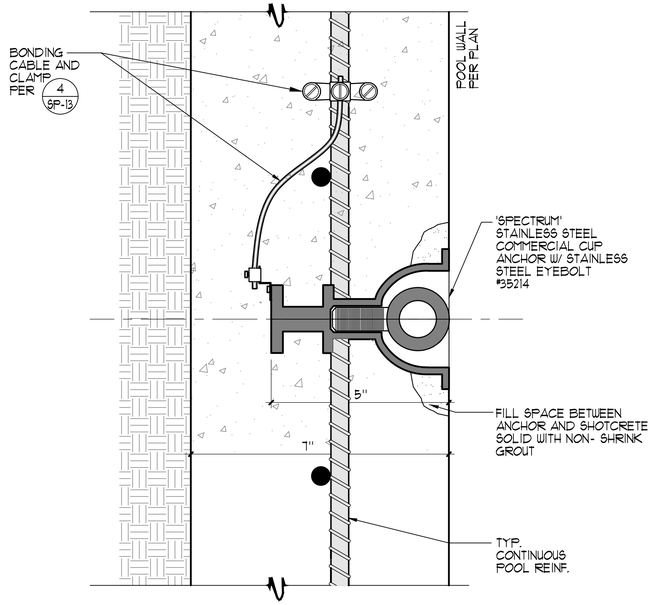




ELEVATION B

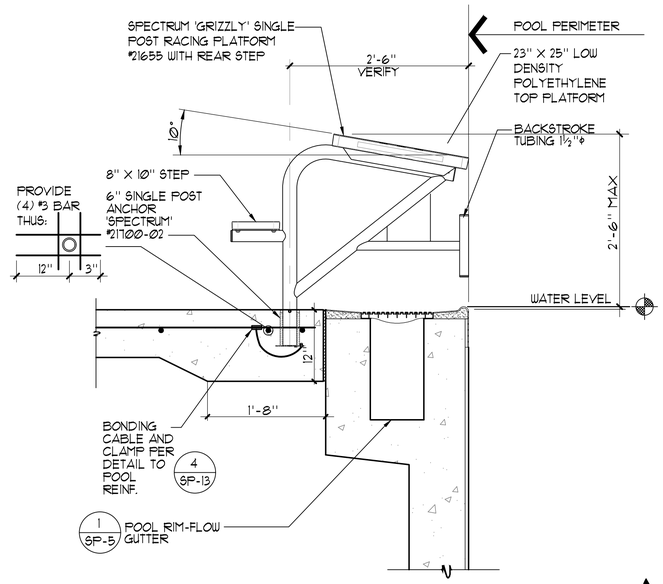
3 GRABRAIL WITH STEPS

1"=1'-Ø"



2 ROPE CUP ANCHOR

½" = 1"



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4 RACING PLATFORM

1"=1'-Ø"

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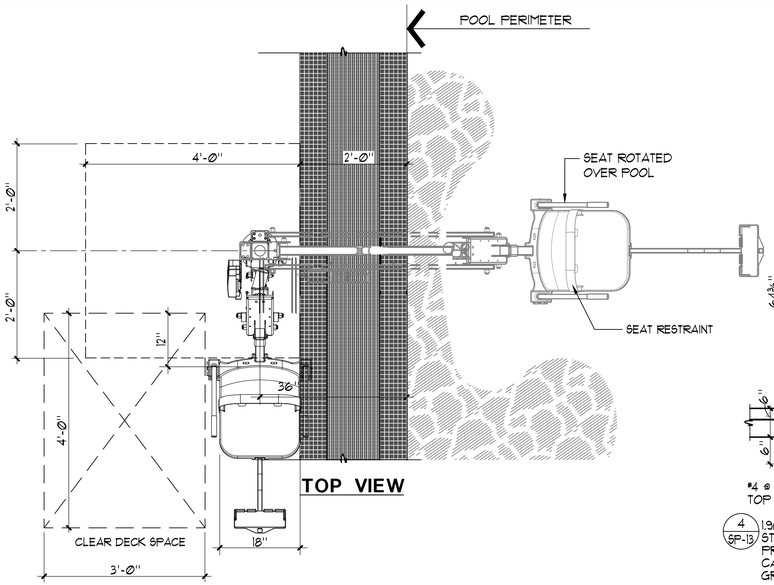
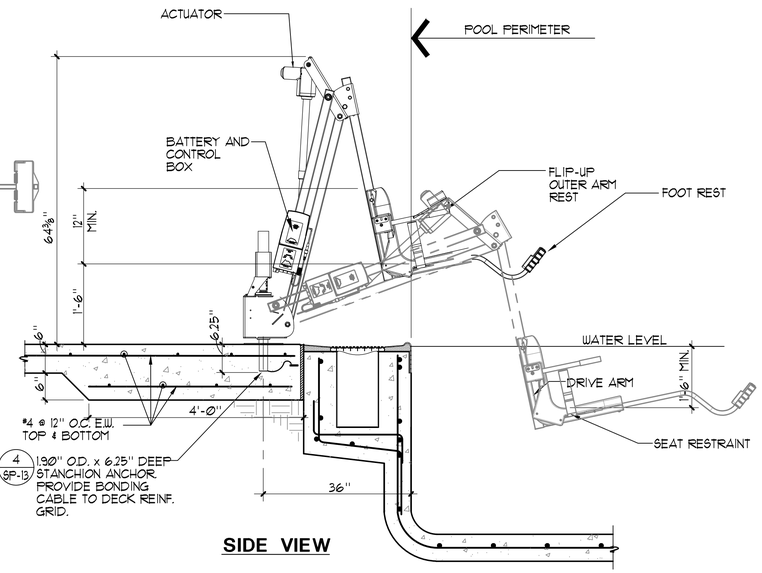
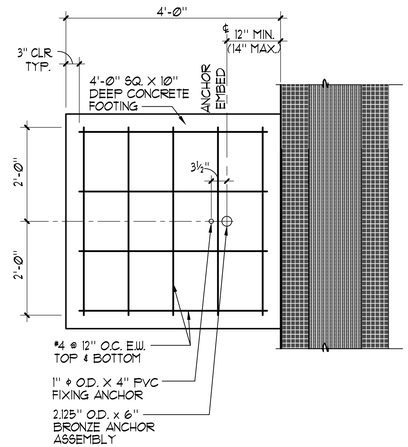


TOP VIEW



SIDE VIEW



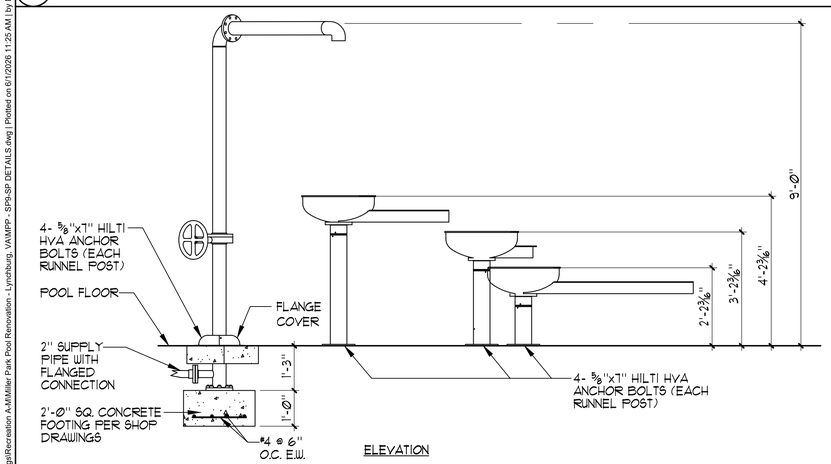
TOP VIEW FOOTING DETAIL

NOTES:

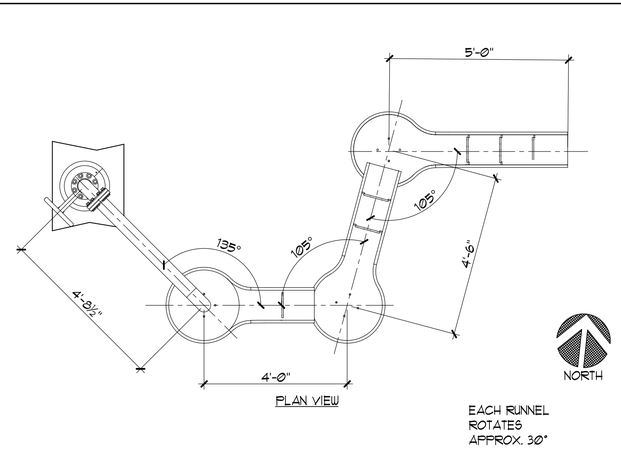
1. 'AQUA CREEK' MIGHTY 400 ℉-MTY400 (350 lb. MIN. AND 400 lb. MAX. LIFTING CAPACITY)
2. GUSSET COVER PLATE TO BE ATTACHED REQUIRING A TOOL FOR REMOVAL.
3. CONTRACTOR SHALL PROVIDE COVER FOR LIFT 'AQUA CREEK' ; EXTRA BATTERY PACK 'AQUA CREEK' ℉-004AB ; AND TRANSPORTER CART 'AQUA CREEK' ℉-MTTC.
4. REFER TO ARCH. PLANS FOR LOCATION OF DISABLED LIFT BATTERY CHARGE STATION. PROVIDE 'AQUA CREEK' CHARGER # F-044CH.
5. POOL LIFT SHALL BE LOCATED WHERE THE WATER LEVEL IS AT LEAST 36" AND DOES NOT EXCEED 48" DEEP , UNLESS ENTIRE POOL IS GREATER THAT 48" DEEP.
6. ON THE RAISED POSITION, THE CENTERLINE OF THE SEAT SHALL BE LOCATED OVER THE DECK AND 16" MINIMUM FROM THE EDGE OF THE POOL. THE DECK SURFACE BETWEEN THE CENTERLINE OF THE SEAT AND THE POOL EDGE SHALL HAVE A 2% MAX. SLOPE.
7. CLEAR DECK SPACE SHALL BE PROVIDED ON SIDE OF SEAT OPPOSITE THE WATER PARALLEL TO THE WATER 36" WIDE x 48" MINIMUM FROM A LINE LOCATED 12" BEHIND THE REAR EDGE OF THE SEAT. THE CLEAR SPACE SHALL HAVE A 2% MAX. SLOPE.
8. THE HEIGHT OF THE LIFT SEAT SHALL BE DESIGNED TO ALLOW A STOP AT 17" MIN. TO 19" MAX. MEASURED FROM THE DECK TO THE TOP OF THE SEAT SURFACE WHEN IN THE RAISED POSITION.
9. THE SEAT SHALL BE RIGID AND 17" MIN. TO 19" MAX. WIDE. THE LIFT SEAT SHALL HAVE A BACK SUPPORT 12" MIN. TALL.
10. FOOTRESTS SHALL BE PROVIDED, EXCEPT FOR SPA LIFTS, AND SHALL MOVE WITH THE SEAT. LIFT SHALL HAVE TWO ARMRESTS. THE ARMREST POSITIONED OPPOSITE THE WATER SHALL BE REMOVABLE OR SHALL FOLD CLEAR OF THE SEAT WHEN THE SEAT IS IN THE RAISED POSITION.
11. THE LIFT SHALL BE CAPABLE OF UNASSISTED OPERATION FROM BOTH THE DECK AND WATER LEVELS. CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL BE UNOBSTRUCTED WHEN THE LIFT IS IN USE. LIFT MUST BE STABLE AND NOT PERMIT UNINTENDED MOVEMENT WHEN A PERSON IS GETTING INTO OR OUT OF THE SEAT.
12. THE LIFT SHALL BE DESIGNED SO THAT THE SEAT WILL SUBMERGE TO A WATER DEPTH OF 18" MIN. BELOW THE STATIONARY WATER LEVEL.
13. LIFT SEAT MUST HAVE AN OCCUPANT RESTRAINT FOR USE BY THE OCCUPANT OF THE SEAT AND THE RESTRAINT MUST MEET THE STANDARDS FOR OPERABLE CONTROLS IN COMPLIANCE WITH LOCAL CODE.

1 ACTIVITY POOL ACCESSIBLE LIFT

¾"=1'-Ø"



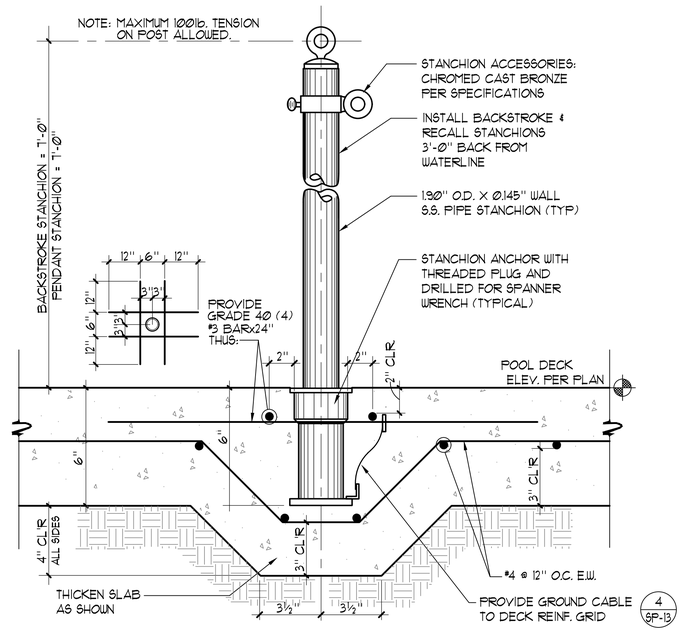
ELEVATION



PLAN VIEW

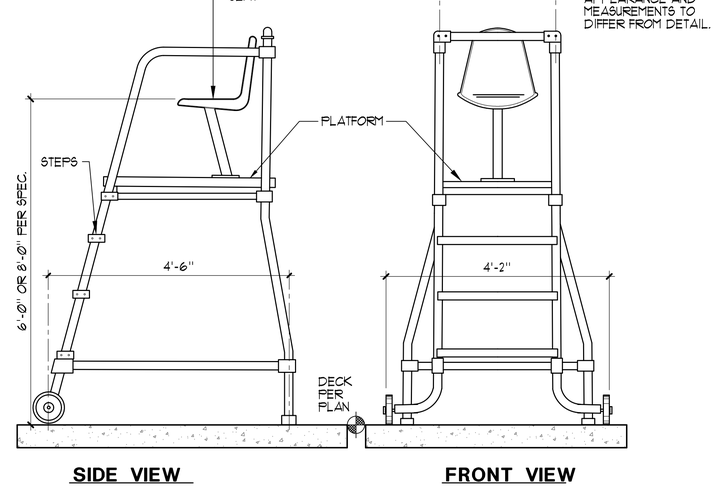
3 POOLS AND FALLS

½"=1'-Ø"



2 STANCHION POST/ANCHOR

3"=1'-Ø"

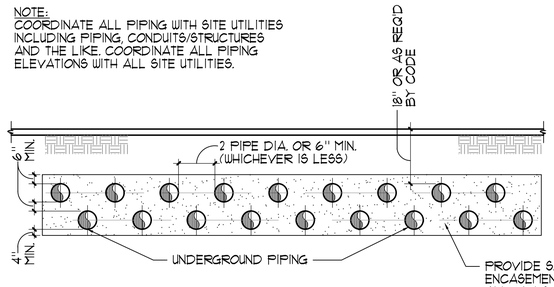


SIDE VIEW **FRONT VIEW**

4 MOVEABLE LIFEGUARD CHAIR

¾"=1'-Ø"

NOTE:
COORDINATE ALL PIPING WITH SITE UTILITIES INCLUDING PIPING, CONDUITS/STRUCTURES AND THE LIKE. COORDINATE ALL PIPING ELEVATIONS WITH ALL SITE UTILITIES.



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5 STACKED UNDERGROUND PIPING

NO SCALE

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MARTELL MONTGOMERY
No. 0402065200
PROFESSIONAL ENGINEER

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REVISION DESCRIPTION	DATE

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DRAWN BY	NMV
DESIGNED BY	GSF
CHECKED BY	GSF
SCALE	AS SHOWN

MILLER PARK POOL
THE CITY OF LYNCHBURG
POOL DETAILS

JOB NO.	57972.002
SHEET NO.	SP-9

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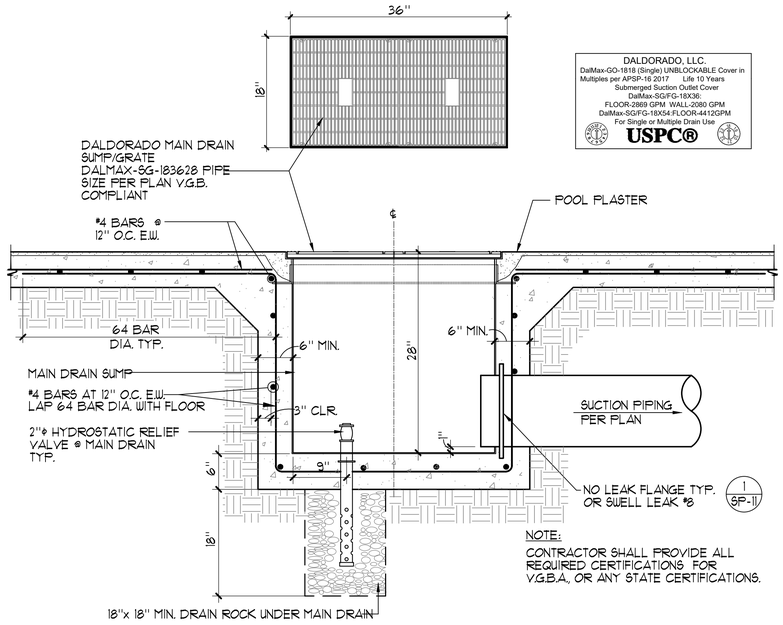
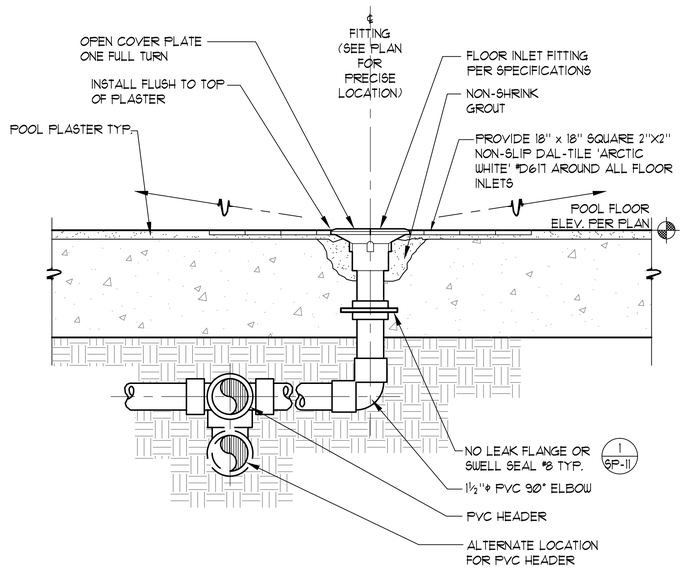
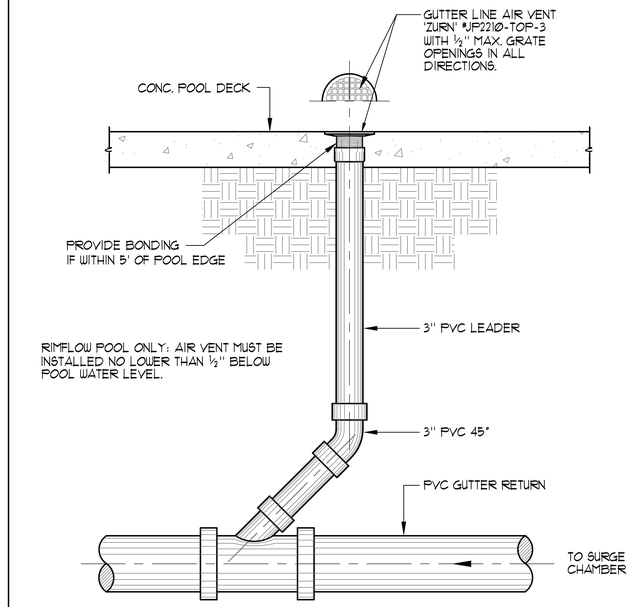


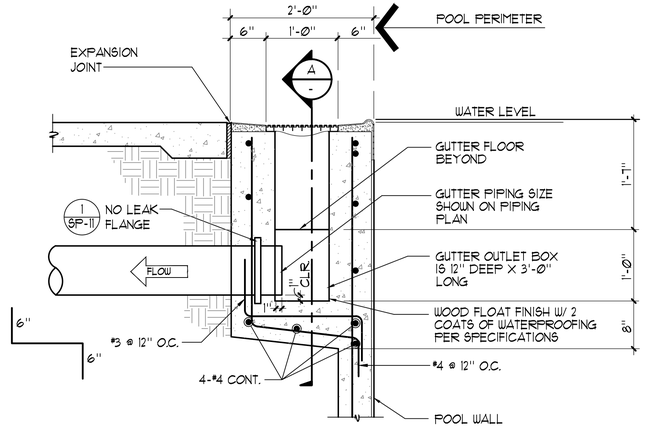
1 **MAIN DRAIN** 1" = 1'-Ø"



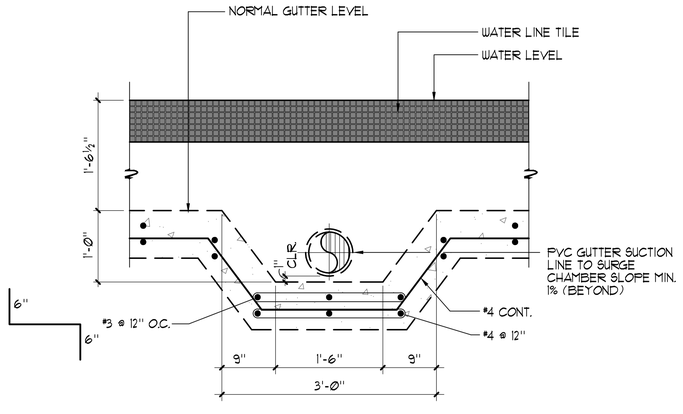
2 **FLOOR INLET** 3"=1'-Ø"



3 **AIR VENT** 1"=1'-Ø"

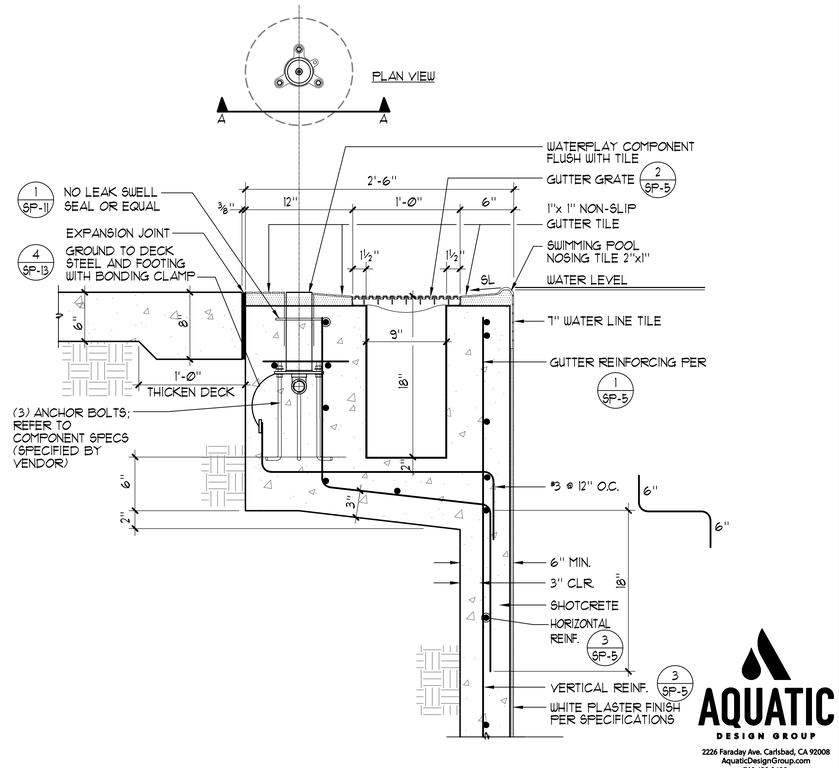


SECTION



A **ELEVATION**

4 **GUTTER OUTLET** 1"=1'-Ø"



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5 **GROUND SPRAYS** 1½"=1'-Ø"

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DESIGNED BY GSF
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MILLER PARK POOL
THE CITY OF LYNCHBURG
POOL DETAILS

JOB NO. 57972.002
SHEET NO. SP-10

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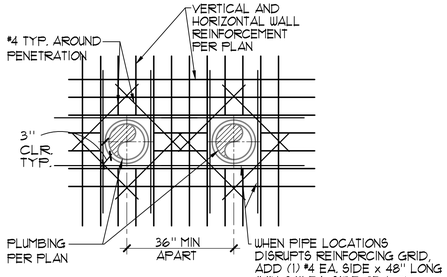
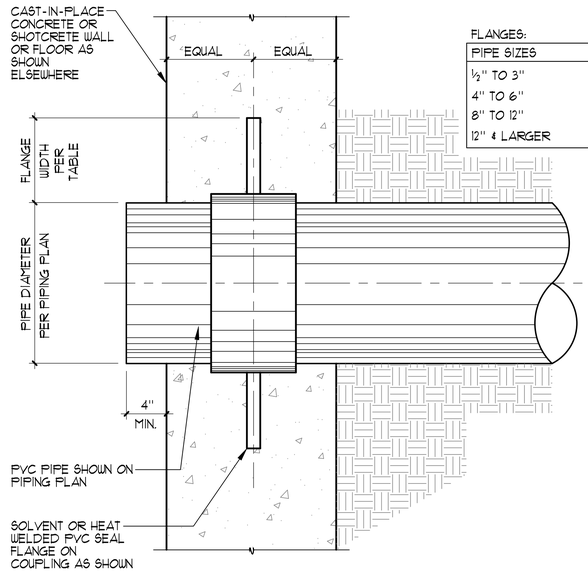


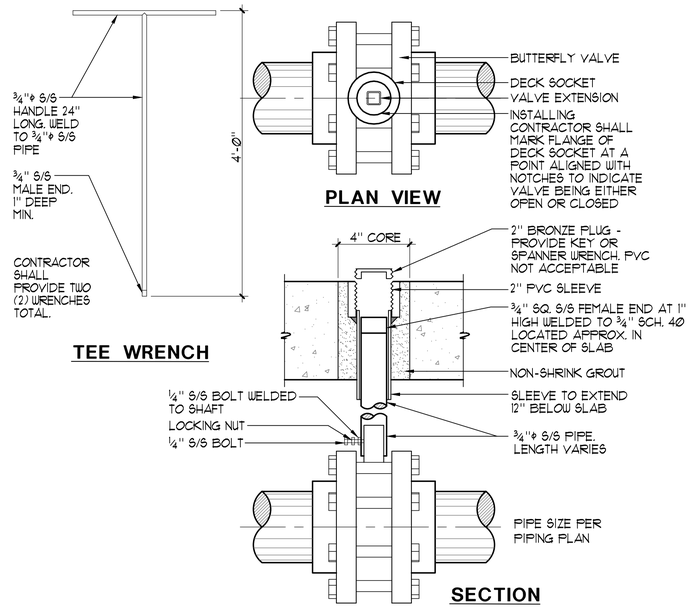
A SURGE CHAMBER REINFORCING AT PIPE PENETRATIONS



FLANGES:

PIPE SIZES	FLANGE WIDTH
½" TO 3"	½"
4" TO 6"	1½"
8" TO 12"	2"
12" & LARGER	2½"

1 WATER STOP DETAIL NO SCALE

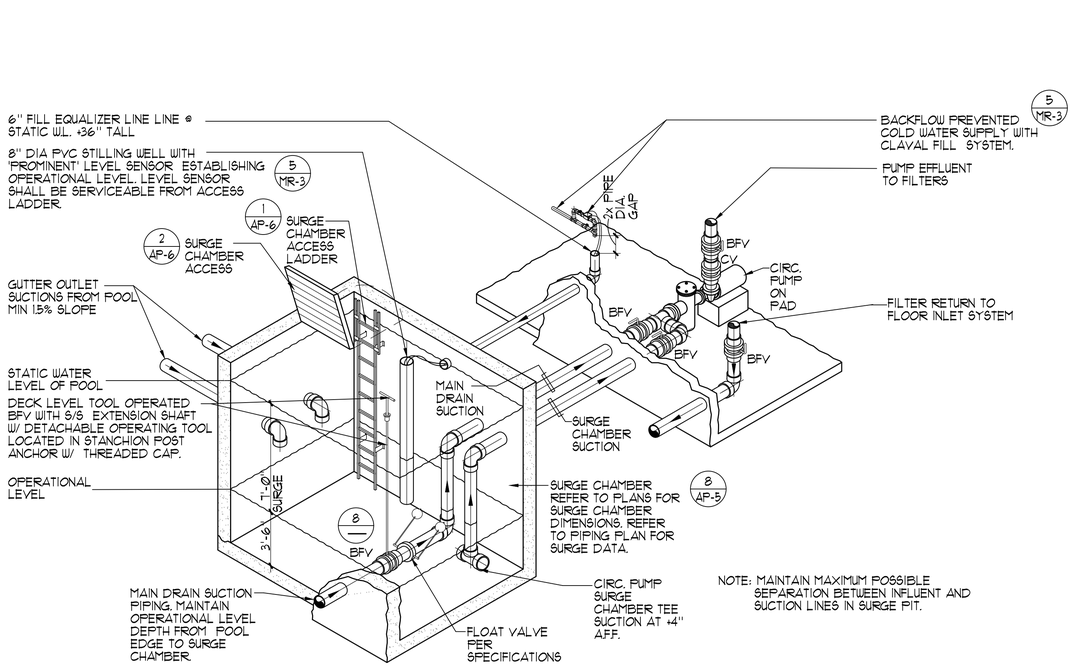


TEE WRENCH

PLAN VIEW

SECTION

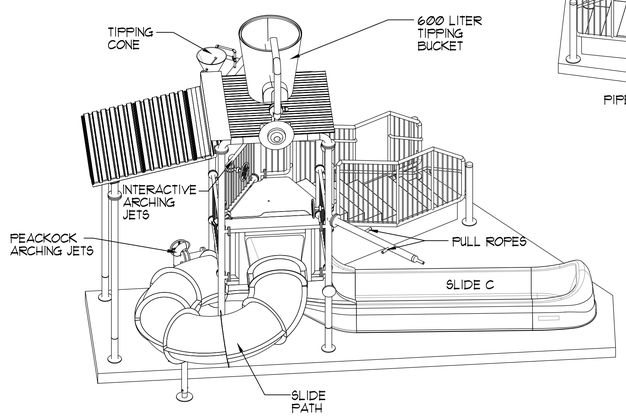
2 SURGE CHAMBER BUTTERFLY VALVE / EXTENSION DETAIL NO SCALE

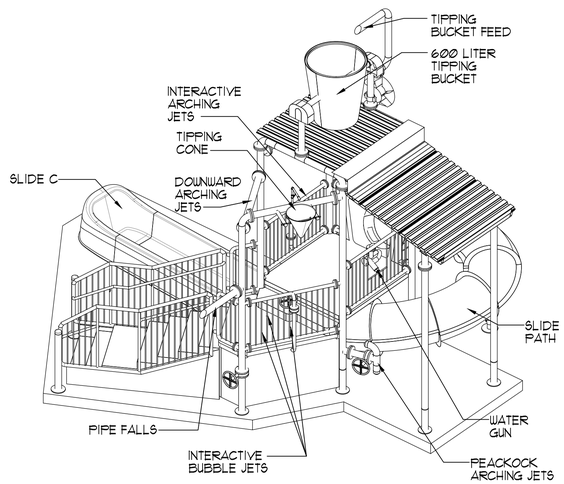


NOTE: MAINTAIN MAXIMUM POSSIBLE SEPARATION BETWEEN INFLUENT AND SUCTION LINES IN SURGE PIT.

3 SURGE CHAMBER PIPING SCHEMATIC NO SCALE

FEATURE TABLE		
FEATURE	QTY	INTERACTIVE
ARCHING JETS, DOWN FIRING	1	N
BUBBLER JETS	1	Y
INTERACTIVE ARCHING JET	1	Y
PEACOCK ARCHING JETS	1	Y
PIPE FALLS	1	Y
PULL ROPES	2	Y
TIPPING BUCKET (600L)	1	N
TIPPING CONE	1	N
WATER GUN	1	Y
WATER SLIDE	1	Y
TOTALS	11	7





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4 ACTIVITY STRUCTURE WATER FEATURES NO SCALE

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No. 0402065200
COMMONWEALTH OF VIRGINIA
PROFESSIONAL ENGINEER

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MILLER PARK POOL
THE CITY OF LYNCHBURG
POOL DETAILS

JOB NO. 57972.002
SHEET NO. SP-11

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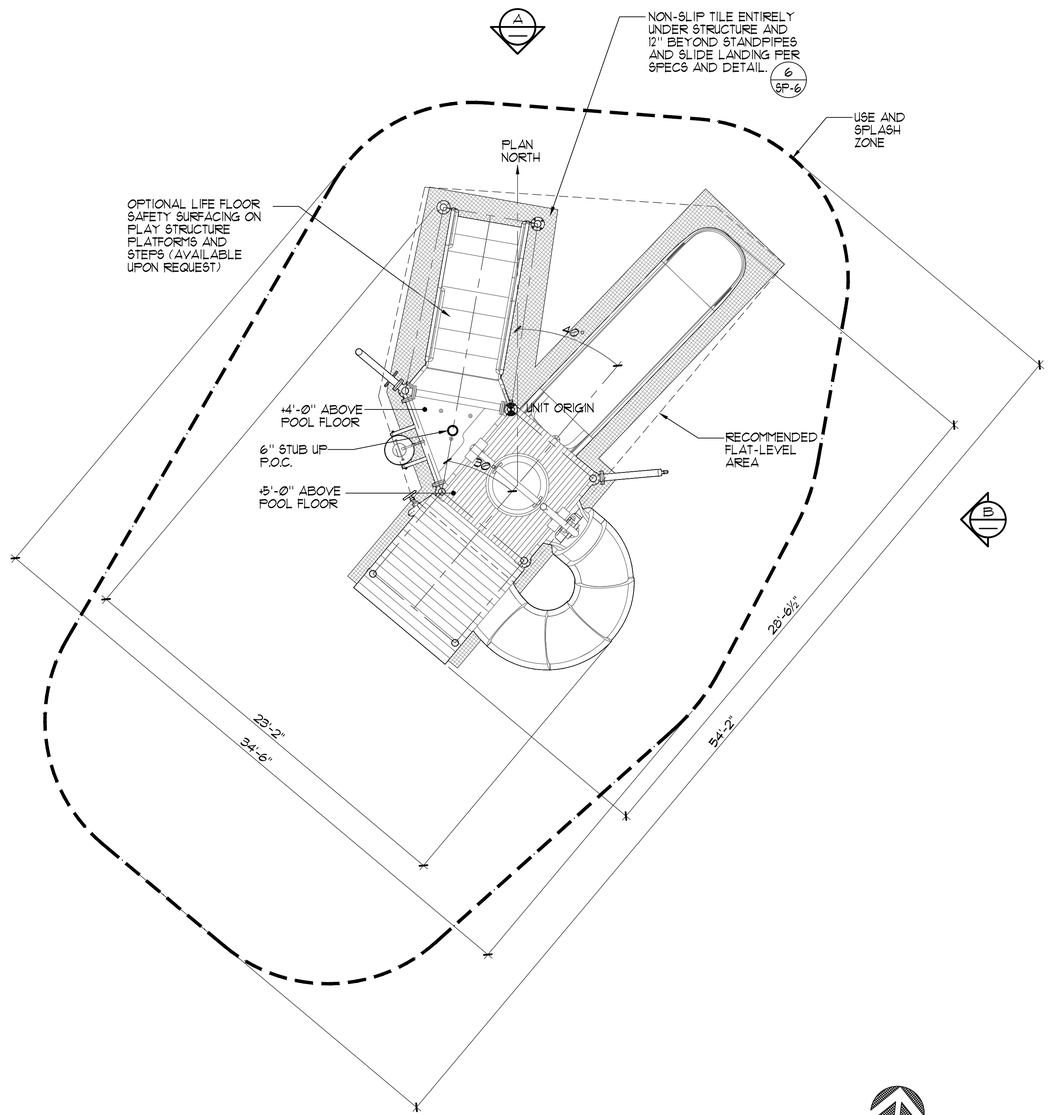
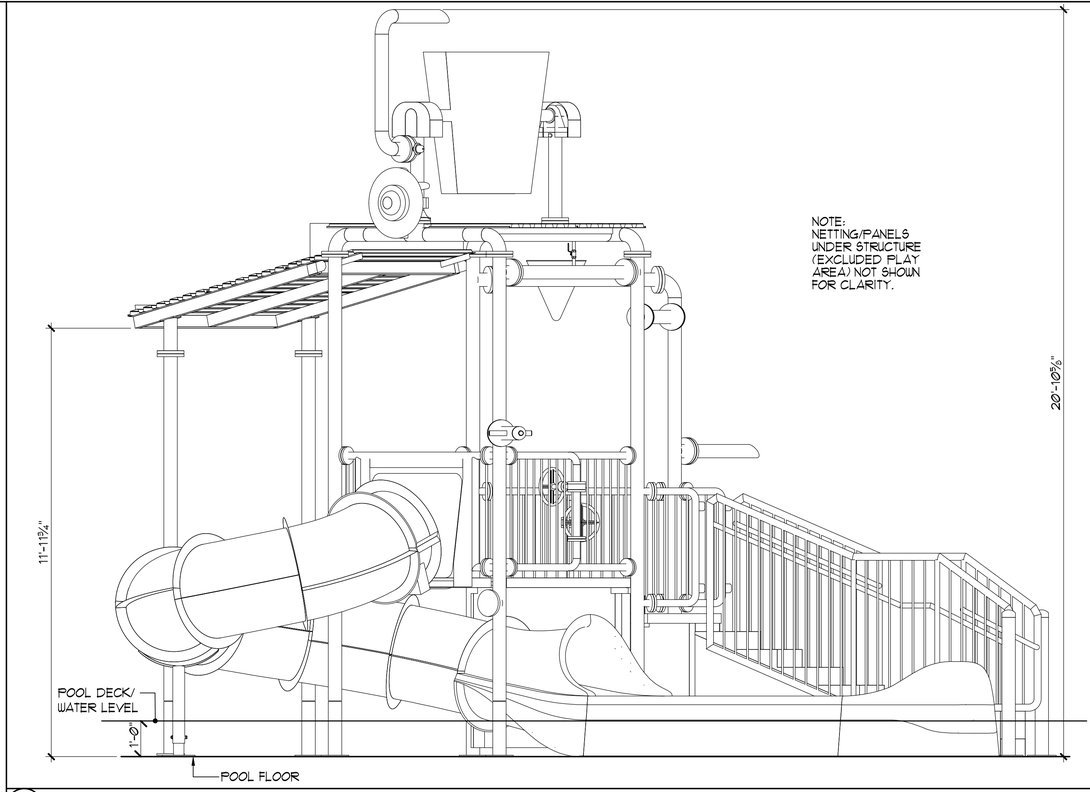
DEFERRED APPROVAL NOTE:
DESIGN OF SLIDE AND ACTIVITY STRUCTURE BY SLIDE MANUFACTURER & ARE DEFERRED APPROVAL ITEMS. THE CONTRACTOR SHALL SUBMIT PLANS AND STRUCTURAL CALCULATIONS TO THE OWNER, ARCHITECT, AND HEALTH DEPARTMENT FOR APPROVAL. ALL STEEL COMPONENTS SHALL BE GALVANIZED. PROVIDE SHADE CANOPY @ +8'-Ø" AS PART OF SLIDE PACKAGE WITH 80% SHADE FABRIC. PROVIDE HEALTH DEPARTMENT IN COMPLIANCE AND WITH DOSH WITH A LIFEGUARD PLAN. PROVIDE DETAILS OF COMMUNICATION BETWEEN GUARDS AT TOP AND BOTTOM OF SLIDES, INCLUDING EMERGENCY SHUTDOWN FOR SLIDES.

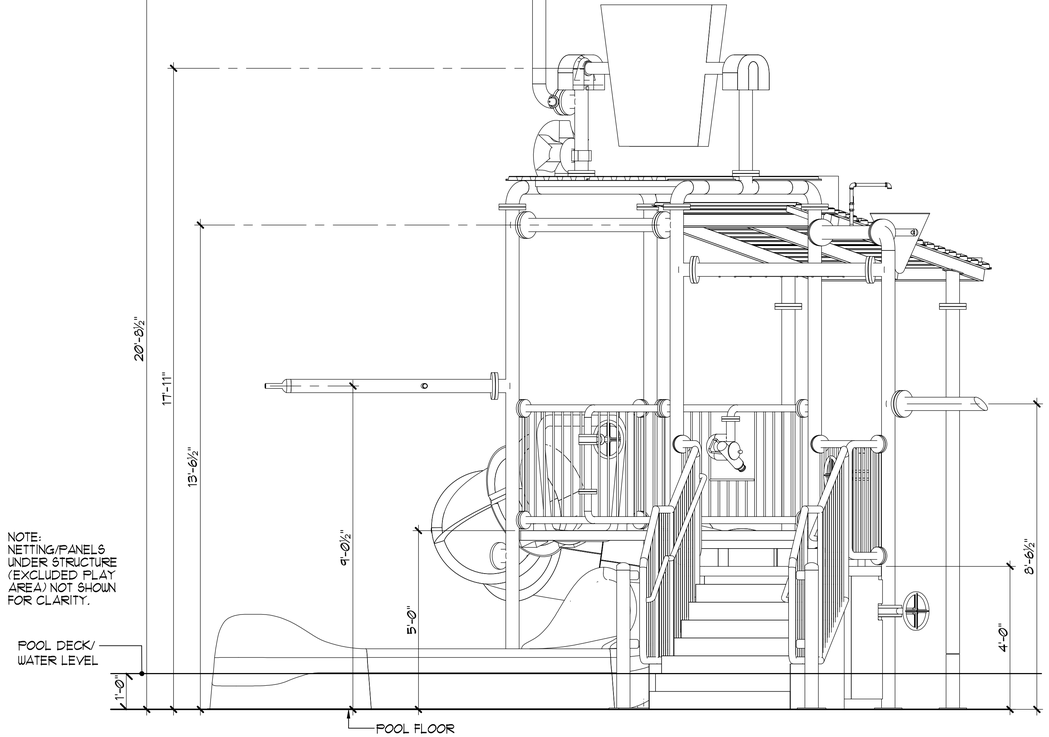


NOTE: REFER TO MANUFACTURER SHOP DRAWINGS FOR STANDPIPE COORDINATES, DIMENSIONS AND BASE PLATE ANCHORAGE INSTALLATION DETAILS AND INSTRUCTIONS.

1 **ACTIVITY STRUCTURE 150TB LAYOUT AND ORIENTATION** ¼" = 1'-Ø"



A **ACTIVITY STRUCTURE ELEVATION SOUTH** ½" = 1'-Ø"



B **ACTIVITY STRUCTURE ELEVATION EAST** ½" = 1'-Ø"

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MILLER PARK POOL
THE CITY OF LYNCHBURG

ACTIVITY STRUCTURE DETAILS

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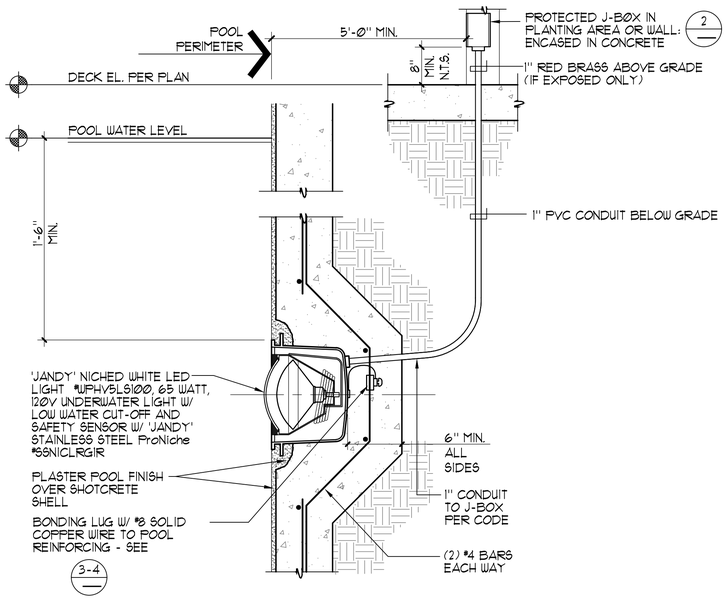


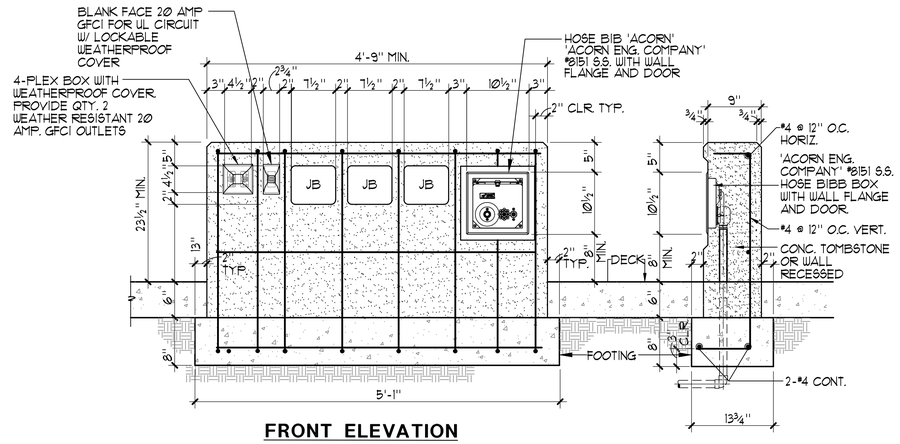
1 UNDERWATER LED LIGHT

1½"=1'-Ø"

3
2

UNDERWATER LIGHT NOTES:

1. ALL CONDUITS IN POOL LIGHTING SYSTEM TO BE A MINIMUM OF 1"ø.
2. CONDUCTORS TO POOL J-BOXES SHALL BE MINIMUM 2-#8 & 1#8 (SEE UNDERWATER LIGHT PLAN) SOLID UNBROKEN TO MAIN PANEL ISOLATED GROUND BUSS. THIS BUSS IS TO BE CONNECTED WITH SOLID INSULATED #8 COPPER WIRE TO UFER & COLDWATER GROUNDING LUG ON GROUNDING BUSS. UPSIZE CONDUCTORS AS REQUIRED FOR HOMERUNS EXCEEDING 100'.
3. ALL BRASS POOL J-BOXES SHALL BE FLUSH MOUNTED IN WALLS. IF FLUSH MOUNTING IS NOT POSSIBLE THEN MOUNTING SHALL BE SURFACE MOUNTED AND CONCRETE ENCASED.
4. CONDUITS WHERE ALLOWED BY CODE SHALL BE P.V.C. (POLYVINYL CHLORIDE) FROM WET NICHES TO BRASS J-BOXES TO LIGHTING PANEL. ALL CONDUITS IN FREE AIR SPACE AND ALL RISERS SHALL BE RED BRASS TYPICAL. PVC CONDUITS SHALL BE SOLVENT WELDED WITH P-70 PURPLE PRIMER AND 2711 GRAY HEAVY BODIED GLUE.
5. LIGHTING CONTACTORS SHALL BE 'ALLEN-BRADLEY' #500 L± OR EQUAL MOUNTED IN A NEMA 12 HINGED COVER - LOCKABLE ENCLOSURE CONTACTORS TO BE SWITCHED BY MOMENTARY SWITCH EQUAL TO 'HUBBELL' #1551 MOUNTED IN J-BOX IN MECHANICAL EQUIPMENT ROOM. PROVIDE REMOTE UNDERWATER LIGHT SWITCH IN POOL BUILDING CONTROL ROOM.
6. BRASS POOL J-BOXES SHALL BE 'HYDREL' #1119 ± W/1" HUBS OR EQUAL. (NO DIE CAST BOXES).
7. STRINGS SHALL BE PULLED IN ALL CONDUITS PRIOR TO PLACEMENT OF CONCRETE.
8. LOCAL, COUNTY OR CITY CODES SHALL BE ADHERED TO. SPECIFICATIONS TO BE IN ACCORDANCE WITH SECTION 680 OF LATEST N.E.C. BOOK.
9. PROVIDE PULL BOXES AS MAY BE REQUIRED FOR RUNS EXCEEDING 150 FT. OR DUE TO CHANGES IN GRADE OR DIRECTION.
10. CONTRACTOR SHALL TEST UNDERWATER POOL LIGHT GFIC CIRCUITS AND PROVIDE LETTER TO ARCHITECT AND OWNER UPON SUCCESSFUL TEST.
11. SEAL CONDUIT OPENING IN LIGHT NICHE WITH SILICON CAULKING AFTER LIGHT IS INSTALLED.
12. PRIOR TO LIGHT INSTALLATION, PROVIDE MINIMUM 10 PSI PRESSURE TEST ON ALL POOL LIGHT CONDUITS FOR FOUR (4) HOURS OBSERVED BY INSPECTOR OF RECORD. MAINTAIN PRESSURE UNTIL ALL DECKS ARE POURED.



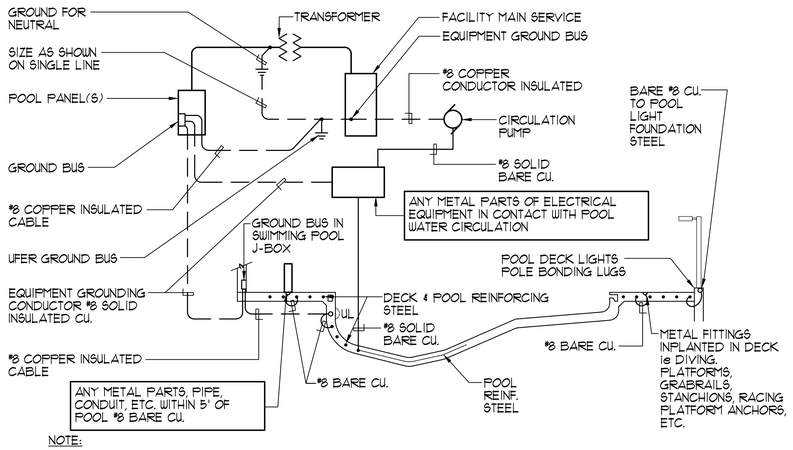
FRONT ELEVATION

RIGHT SIDE ELEVATION

NOTES:
1. PROVIDE ¾" CHAMFER ON ALL CONCRETE CORNERS. SACK & PATCH ALL EXPOSED SURFACES
2. PROVIDE A BLACK FACE GFCI WITH A WEATHERPROOF LOCKABLE COVER FOR EACH UNDERWATER LIGHT CIRCUIT
3. MAXIMUM EIGHT (8) UNDERWATER LIGHTS PER CIRCUIT
4. MAXIMUM TWO (2) 120 VOLT UNDERWATER LIGHTS PER 'HYDREL' JUNCTION BOX
5. ALL ELECTRICAL RECEPTACLES TO BE GFCI PROTECTED

2 UNDERWATER LIGHT JUNCTION BOX CONCRETE SURROUND

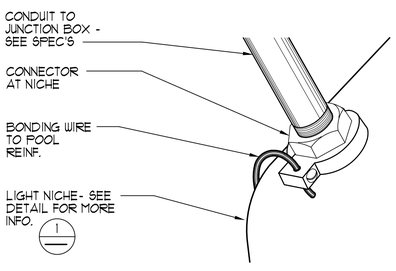
1"=1'-Ø"



NOTE:
1. STRUCTURAL STEEL IN POOL DECK AND POOL SHALL BE BONDED TOGETHER (TIGHTLY MADE STEEL TIE-WIRES ARE APPROVED FOR BONDING STRUCTURAL ELEMENTS).
2. BONDING CONNECTOR TO COMMON GRID. (POOL STEEL MAY BE USED FOR THAT PURPOSE) SHALL BE MADE BY PRESSURE CONNECTORS OR CLAMPS OF BRASS, COPPER, OR COPPER ALLOY.
3. ALL GROUND BUSES SHALL BE SIZED FOR CONNECTION TO AWG SIZE 8 WIRE PROVIDING ONE SPARE TERMINAL.
4. GROUND AND BOND IN ACCORDANCE WITH ARTICLE 680 OF THE NATIONAL ELECTRICAL CODE. ie. LADDERS, FENCING, POLE LIGHTS, DIVING & STARTING STANCHIONS, DISABLED LIFT ETC.
5. PROVIDE BONDING OF AUTOMATIC POOL COVER MOTORS REGARDLESS OF PROXIMITY TO POOL.

3 TYPICAL POOL BONDING AND GROUND DETAIL

NO SCALE



NICHE CONNECTOR

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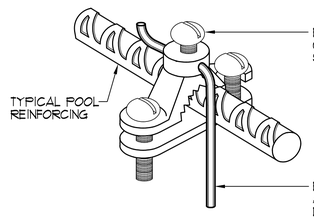
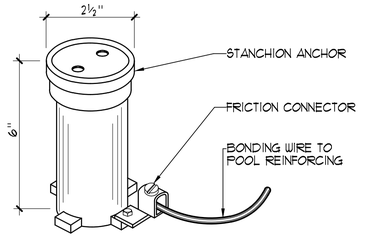


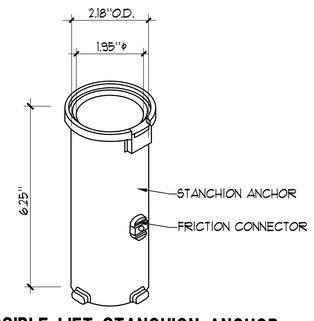
BONDING CLAMP

NO SCALE



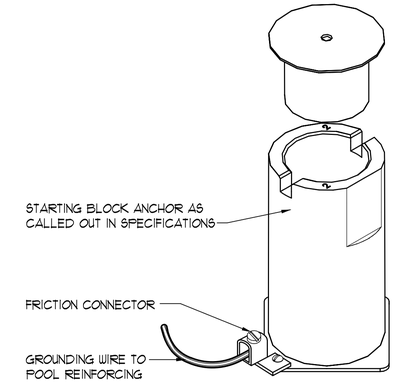
STANCHION ANCHOR

NO SCALE



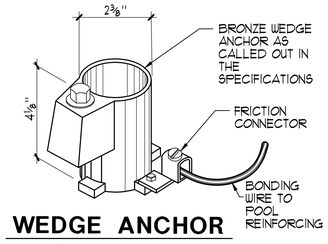
ACCESSIBLE LIFT STANCHION ANCHOR

NO SCALE



STARTING BLOCK ANCHOR

NO SCALE



WEDGE ANCHOR

NO SCALE

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4 BONDING DETAILS

NO SCALE

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MILLER PARK POOL
THE CITY OF LYNCHBURG
POOL DETAILS

JOB NO. 57972.002
SHEET NO. SP-13

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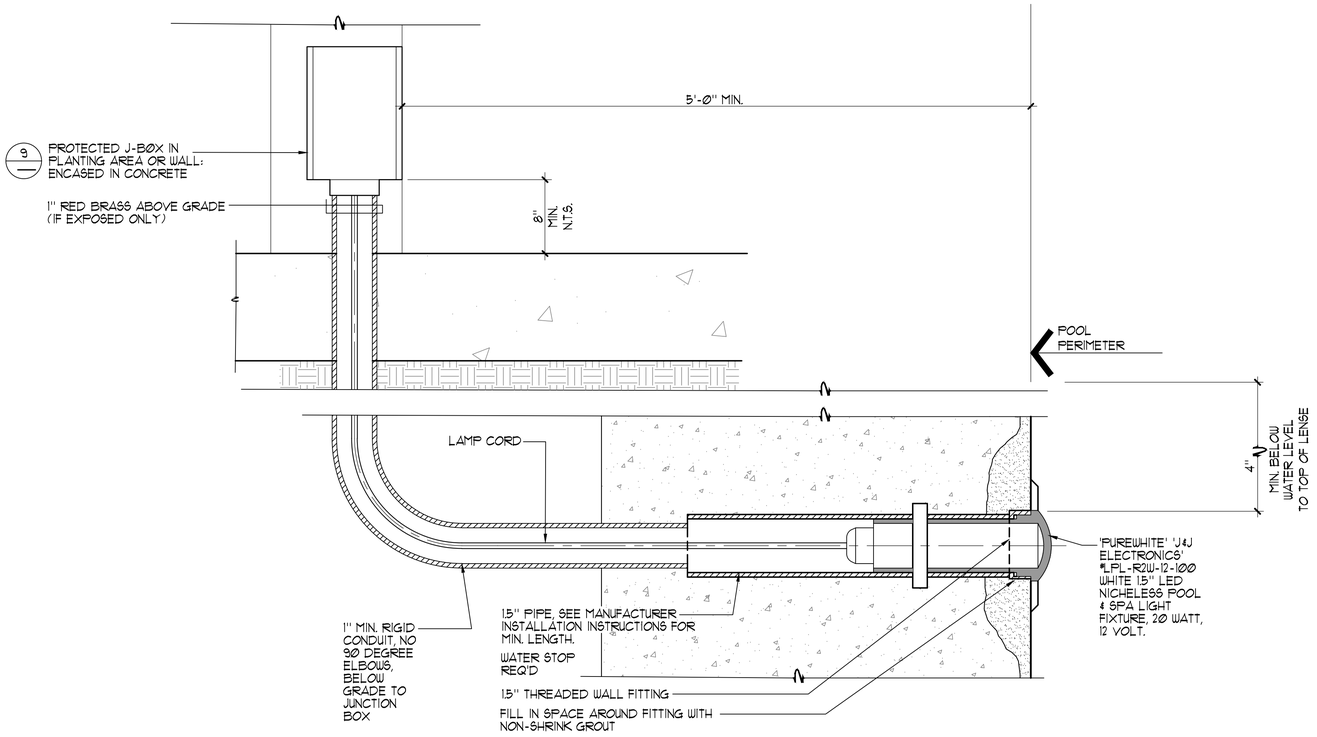
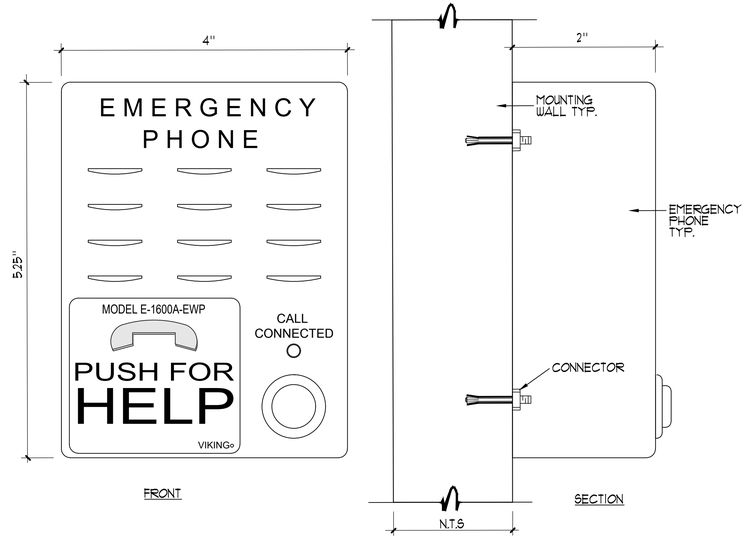


1 UNDERWATER LED LIGHT

NO SCALE



MODEL# E-1600A-EWP

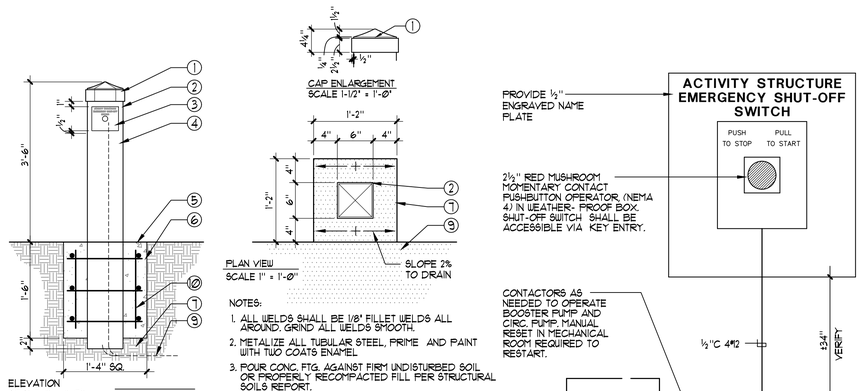
SURFACE MOUNT TO WALL, POST, SINGLE GANG BOX, OR 4" X 4" ELECTRICAL JUNCTION BOX

COORDINATE CONNECTION TO TELECOMMUNICATIONS WITH ARCHITECT/OWNER.

SUBSTRATE	CONNECTOR	EMBED	SPECIAL REQUIREMENTS
WOOD	⅜" LAG BOLT	2½" MIN	2"X6" STUD OR BLOCKING
CONCRETE	½" SS HILTI KB-TZ2	3¼" MIN	EXPANSION TYP.
CMU	⅜" HILTI KB-TZ2	2½" MIN	

2 EMERGENCY PHONE

1"=1"

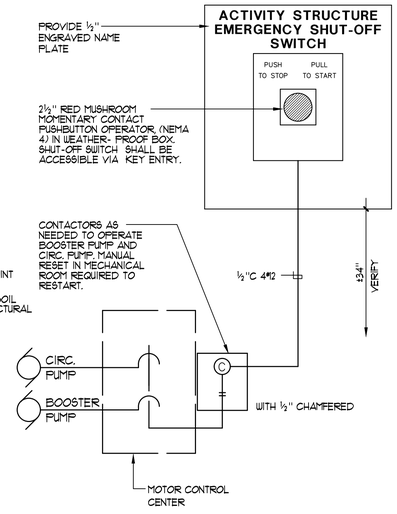


NOTES:

1. ALL WELDS SHALL BE 1/8" FILLET WELDS ALL AROUND. GRIND ALL WELDS SMOOTH.
2. METALIZE ALL TUBULAR STEEL, PRIME AND PAINT WITH TWO COATS ENAMEL
3. POUR CONC. FTG. AGAINST FIRM UNDISTURBED SOIL OR PROPERLY RECOMPACTED FILL PER STRUCTURAL SOILS REPORT.

1. DECORATIVE CAP (TO BE FABRICATED, MATCH NEWELL POST CAP FROM CLASSIC IRON SUPPLY)
2. 6" X 6" X 3/8" TUB. STL. POST
3. SHUT OFF SWITCH
4. SIGNAGE
5. FINISH GRADE PER CIVIL ENGINEER
6. CONC. FTG. TO BE FLUSH WITH ADJACENT PAVING (MATCH COLOR AND FINISH). 2500 P.S.I. @ 28 DAYS, CROWN 2% TO DRAIN. REFER TO SPECIFICATIONS.
7. COMPACTED SUBGRADE
8. ADJACENT PAVING, REFER TO CONSTRUCTION PLAN.
9. CONTRACTOR SHALL COORDINATE ELECTRICAL WIRING THROUGH TUBULAR STEEL POST.
10. 4-#5 VERT. WITH #3 TIES @ 8' O.C.

NOTE: COORDINATE LOOK, FINISH, AND LOCATION WITH LANDSCAPE ARCHITECT BEFORE CONSTRUCTION



3 ACTIVITY STRUCTURE EMERGENCY SHUT-OFF SWITCH

NO SCALE

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MILLER PARK POOL
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POOL DETAILS

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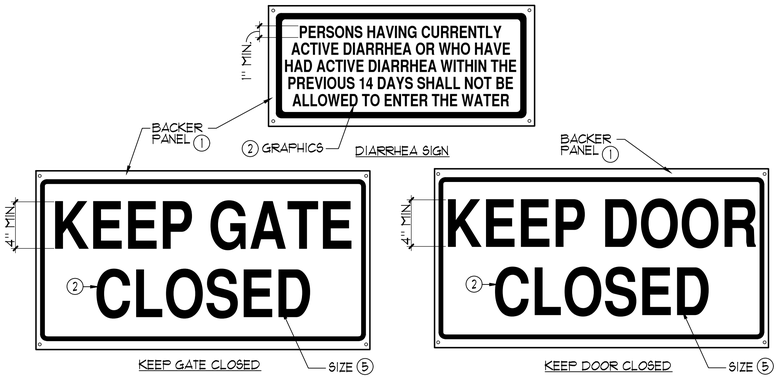
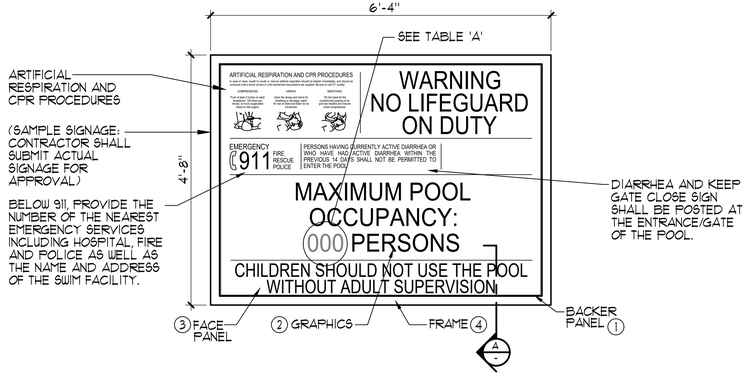
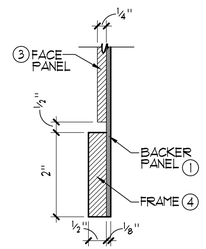


KEEP CLOSED: A SIGN SHALL BE POSTED ON THE EXTERIOR AND INTERIOR SIDE OF GATES AND DOORS LEADING INTO THE POOL ENCLOSURE AREA STATING, "KEEP GATE CLOSED" OR "KEEP DOOR CLOSED".

DIARRHEA: A SIGN IN LETTERS AT LEAST 1 INCH HIGH AND IN A LANGUAGE OR DIAGRAM THAT IS CLEARLY STATED SHALL BE POSTED AT THE ENTRANCE AREA OF A PUBLIC POOL WHICH STATES THAT PERSONS HAVING CURRENTLY ACTIVE DIARRHEA OR WHO HAVE HAD ACTIVE DIARRHEA WITHIN THE PREVIOUS 14 DAYS SHALL NOT BE ALLOWED TO ENTER THE POOL WATER.





A SECTION
6" = 1'-0"

SIGNAGE NOTES AND SPECIFICATIONS:

1. 1/8" THICK PAINTED ALUMINUM BACKER PANEL.
2. SILKSCREENED COPY/GRAPHICS WITH SATIN CLEAR COAT.
3. 1/4" THICK PAINTED ALUMINUM FACE PANEL WITH SILKSCREENED COPY/GRAPHICS. ATTACH TO 1/8" THICK PAINTED ALUMINUM BACKER PANEL USING 'VHB' TAPE AND SILICONE ADHESIVE.
4. 2" WIDE x 1/2" THICK PAINTED ALUMINUM SIGN FRAME ADHERED TO 1/8" THICK PAINTED ALUMINUM BACKER USING 'LORDS' ADHESIVE AS REQUIRED. VERTICAL SECTIONS OF FRAME TO BE RECTANGULAR TUBE. FILL AND SAND SEAM ALONG EDGE AND FACE PRIOR TO PAINTING.
5. ALL SIGN LETTING TO HAVE A MINIMUM TEXT HEIGHT OF 4"

TABLE 'A'	
POOL TYPE	OCCUPANCY LOAD
SWIMMING POOL	813

NOTES:

1. COORDINATE SIGNAGE PLACEMENT AND COLOR SCHEME WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
2. CONTRACTOR TO PROVIDE SUBMITTAL OF PROPOSED SIGNAGE FOR REVIEW.
3. REFER TO ARCHITECTURAL PLANS FOR ALL OTHER SITE AND FACILITY SIGNAGE.

REQUIRED SIGNAGE:

1. ALL SIGNS SHALL HAVE CLEARLY LEGIBLE LETTERS OR NUMBERS NOT LESS THAN 4 INCHES HIGH, UNLESS OTHERWISE NOTED; AFFIXED TO A WALL, POLE, GATE, OR SIMILAR PERMANENT STRUCTURE IN A LOCATION VISIBLE TO ALL POOL USERS.
   - A. POOL USER CAPACITY SIGN: A SIGN SHALL INDICATE THE MAXIMUM NUMBER OF POOL USERS PERMITTED FOR EACH POOL.
   - B. NO DIVING SIGN: SIGNS SHALL BE POSTED IN CONSPICUOUS PLACES AND SHALL STATE 'NO DIVING' AT POOLS WITH A MAXIMUM WATER DEPTH OF 6 FEET OR LESS.
   - C. NO LIFEGUARD SIGN: WHERE NO LIFEGUARD SERVICE IS PROVIDED, A WARNING SIGN SHALL BE POSTED STATING, "NO LIFEGUARD ON DUTY." THE SIGN ALSO SHALL STATE IN LETTERS AT LEAST 1 INCH HIGH, "CHILDREN SHOULD NOT USE POOL WITHOUT ADULT SUPERVISION."
   - D. ARTIFICIAL RESPIRATION AND CPR SIGN: AN ILLUSTRATED DIAGRAM WITH TEXT AT LEAST ¼ INCH HIGH OF ARTIFICIAL RESPIRATION AND CPR PROCEDURES SHALL BE POSTED.
   - E. EMERGENCY SIGN: THE EMERGENCY TELEPHONE NUMBER 911, THE NUMBER OF THE NEAREST EMERGENCY SERVICES AND THE NAME AND STREET ADDRESS OF THE POOL FACILITY SHALL BE POSTED.
   - F. WARNING SIGN FOR A SPA POOL: A WARNING SIGN FOR THE SPA POOLS SHALL BE POSTED STATING, 'CAUTION', AND SHALL INCLUDE THE FOLLOWING LANGUAGE IN LETTERS AT LEAST 1 INCH HIGH:
     1. ELDERLY PERSONS, PREGNANT WOMEN, INFANTS AND THOSE WITH HEALTH CONDITIONS REQUIRING MEDICAL CARE SHOULD CONSULT WITH A PHYSICIAN BEFORE ENTERING THE SPA.
     2. CHILDREN SHOULD NOT USE SPA WITHOUT ADULT SUPERVISION.
     3. HOT WATER IMMERSION WHILE UNDER THE INFLUENCE OF ALCOHOL, NARCOTICS, DRUGS, OR MEDICINES MAY LEAD TO SERIOUS CONSEQUENCES AND IS NOT RECOMMENDED.
     4. DO NOT USE ALONE.
     5. LONG EXPOSURE MAY RESULT IN HYPERTHERMIA, NAUSEA, DIZZINESS OR FAINTING.
   - G. EMERGENCY SHUT OFF: IN LETTERS AT LEAST ONE INCH HIGH A SIGN SHALL BE POSTED AT THE SPA EMERGENCY SHUT OFF SWITCH STATING "EMERGENCY SHUT OFF SWITCH."
   - H. NO USE AFTER DARK: WHERE POOLS WERE CONSTRUCTED FOR WHICH LIGHTING WAS NOT REQUIRED A SIGN SHALL BE POSTED AT EACH POOL ENTRANCE ON THE OUTSIDE OF THE GATE(S) STATING, "NO USE OF POOL ALLOWED AFTER DARK."
   - I. KEEP CLOSED: A SIGN SHALL BE POSTED ON THE EXTERIOR SIDE OF GATES AND DOORS LEADING INTO THE POOL ENCLOSURE AREA STATING, "KEEP CLOSED."
   - J. DIARRHEA: A SIGN IN LETTERS AT LEAST 1 INCH HIGH AND IN A LANGUAGE OR DIAGRAM THAT IS CLEARLY STATED SHALL BE POSTED AT THE ENTRANCE AREA OF A PUBLIC POOL WHICH STATES THAT PERSONS HAVING CURRENTLY ACTIVE DIARRHEA OR WHO HAVE HAD ACTIVE DIARRHEA WITHIN THE PREVIOUS 14 DAYS SHALL NOT BE ALLOWED TO ENTER THE POOL WATER.
2. DIRECTION OF FLOW SIGNAGE AND LABELS.
   - A. THE DIRECTION OF FLOW FOR THE RECIRCULATION EQUIPMENT SHALL BE LABELED CLEARLY WITH DIRECTIONAL SYMBOLS SUCH AS ARROWS ON ALL PIPING IN THE EQUIPMENT AREA.
   - B. WHERE THE RECIRCULATION EQUIPMENT FOR MORE THAN ONE POOL IS LOCATED ON SITE, THE EQUIPMENT SHALL BE MARKED AS TO WHICH POOL THE SYSTEM SERVES.
   - C. VALVES AND PLUMBING LINES SHALL BE LABELED CLEARLY WITH THE SOURCE OR DESTINATION DESCRIPTIONS.

1 **POOL SIGNAGE DETAIL** 3/4"=1'-0"

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PROFESSIONAL ENGINEER

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MILLER PARK POOL
THE CITY OF LYNCHBURG
POOL DETAILS

JOB NO. 57972.002
SHEET NO. SP-15

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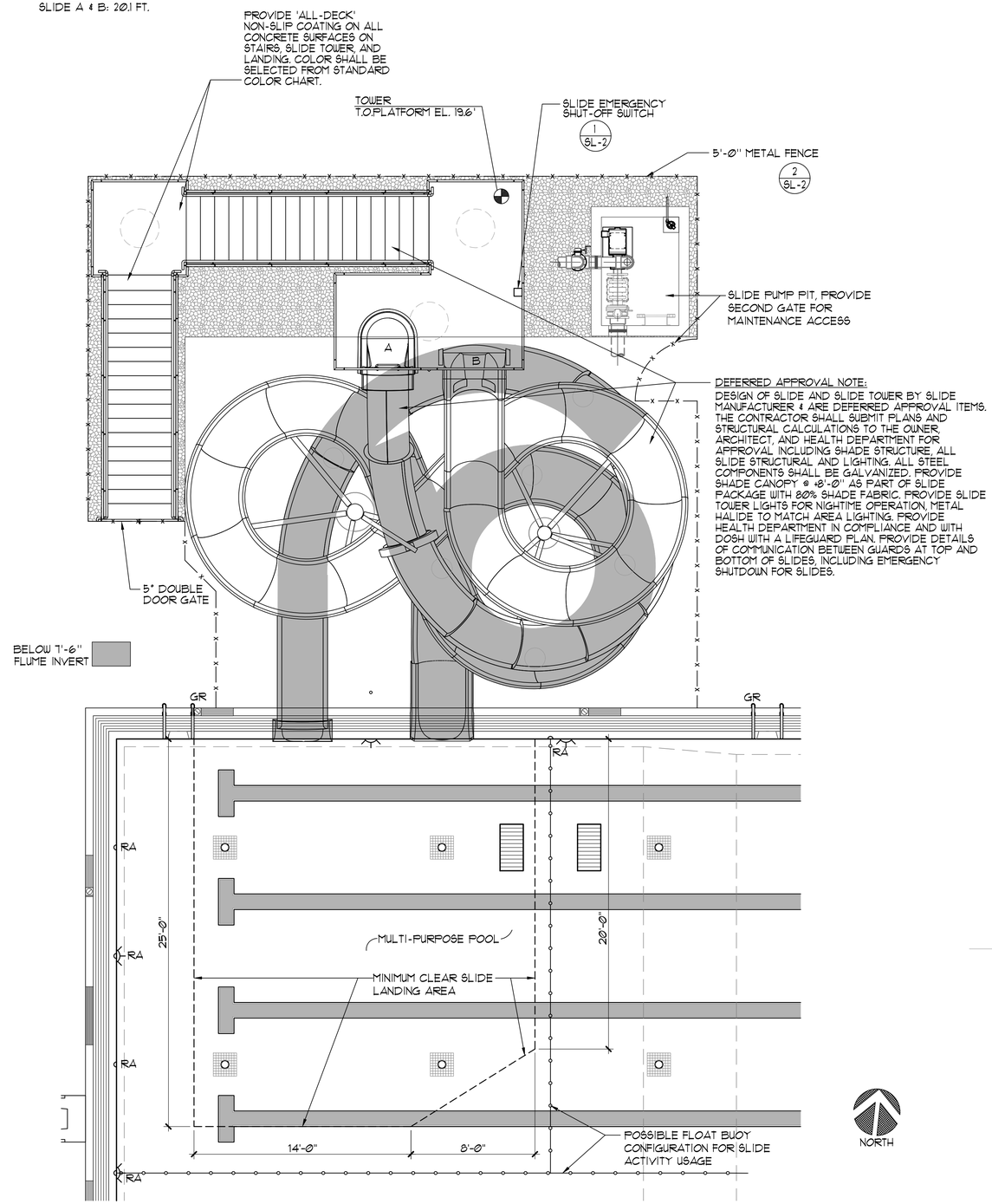
SLIDE LENGTH:

SLIDE A: 88.7 FT. (AQUATUBE)

SLIDE B: 141.9 FT. (FOOSIDER)

SLIDE HEIGHT:

SLIDE A & B: 20.1 FT.

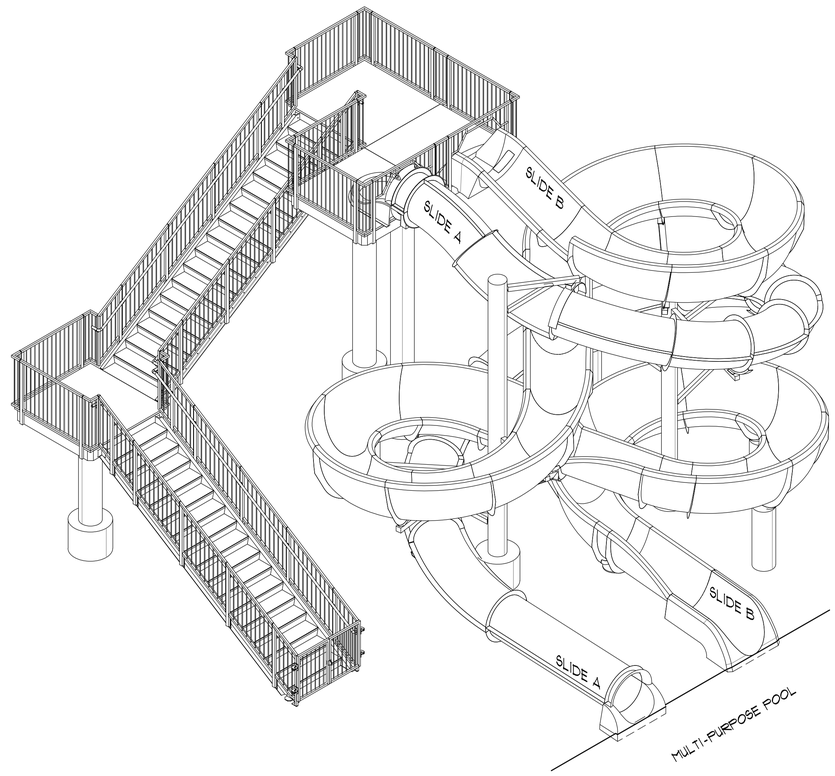


DEFERRED APPROVAL NOTE:

DESIGN OF SLIDE AND SLIDE TOWER BY SLIDE MANUFACTURER & ARE DEFERRED APPROVAL ITEMS. THE CONTRACTOR SHALL SUBMIT PLANS AND STRUCTURAL CALCULATIONS TO THE OWNER, ARCHITECT, AND HEALTH DEPARTMENT FOR APPROVAL INCLUDING SHADE STRUCTURE, ALL SLIDE STRUCTURAL AND LIGHTING. ALL STEEL COMPONENTS SHALL BE GALVANIZED. PROVIDE SHADE CANOPY @ ±8'-Ø" AS PART OF SLIDE PACKAGE WITH 80% SHADE FABRIC. PROVIDE SLIDE TOWER LIGHTS FOR NIGHTIME OPERATION, METAL HALIDE TO MATCH AREA LIGHTING. PROVIDE HEALTH DEPARTMENT IN COMPLIANCE AND WITH DOSH WITH A LIFEGUARD PLAN, PROVIDE DETAILS OF COMMUNICATION BETWEEN GUARDS AT TOP AND BOTTOM OF SLIDES, INCLUDING EMERGENCY SHUTDOWN FOR SLIDES.

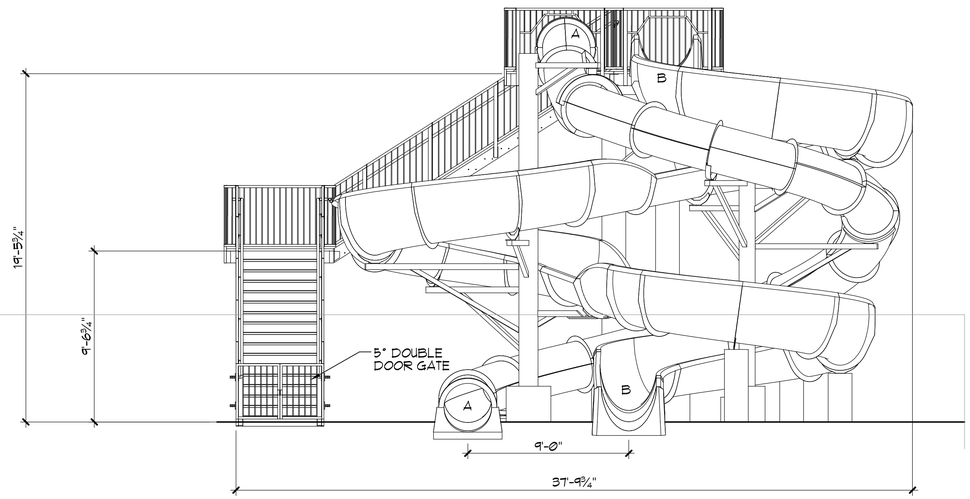
1 SLIDE PATH LAYOUT

¼" = 1'-Ø"



2 ISOMETRIC VIEW

NO SCALE



3 FRONT ELEVATION

¼" = 1'-Ø"

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MILLER PARK POOL
THE CITY OF LYNCHBURG
SLIDE DETAILS

JOB NO. 57972.002
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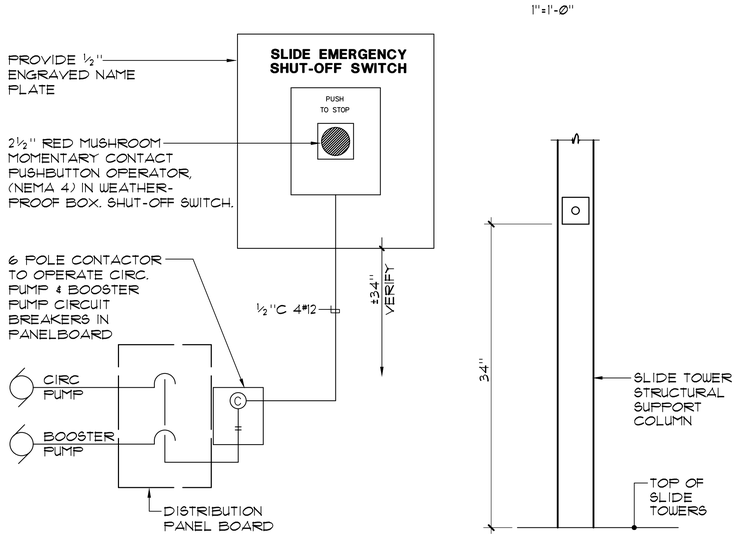
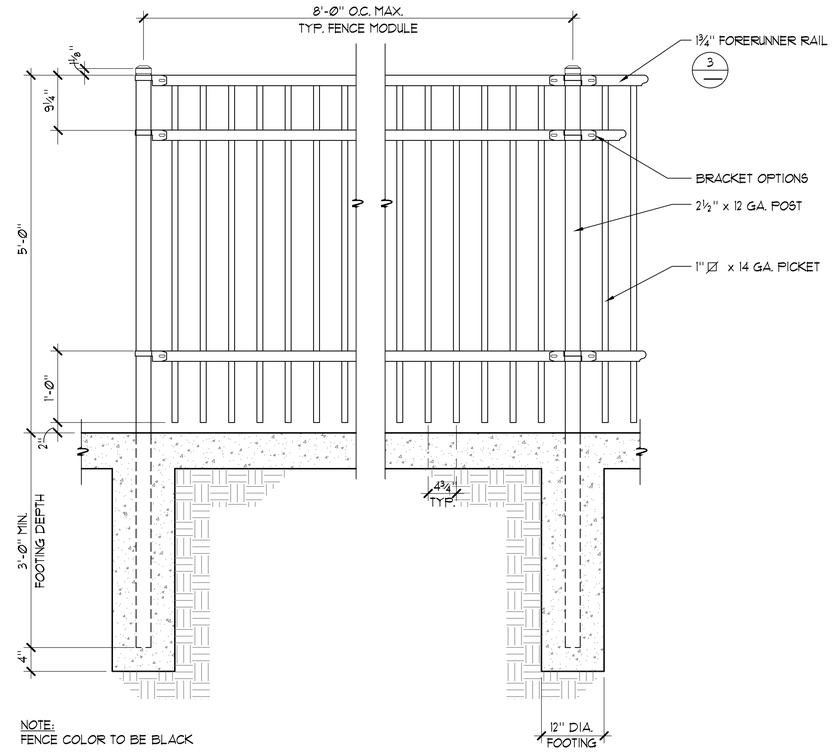


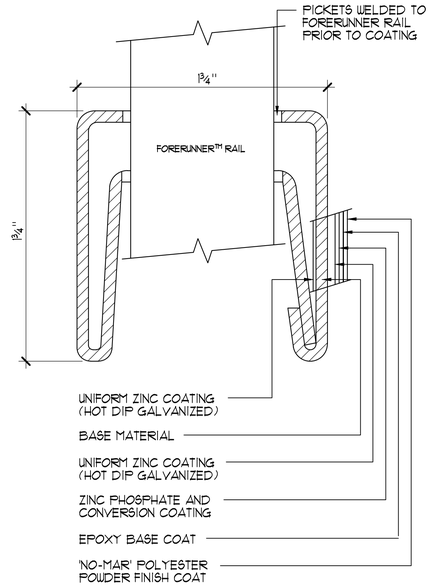
1 SLIDE EMERGENCY SHUT-OFF SWITCH

NO SCALE



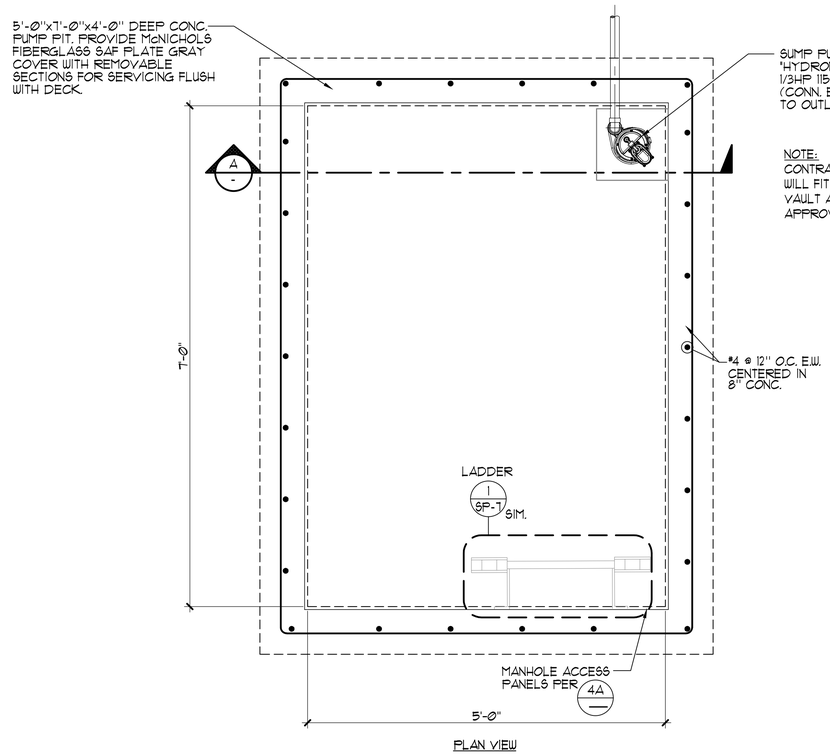
2 5'-0" INTERIOR FENCE PANEL

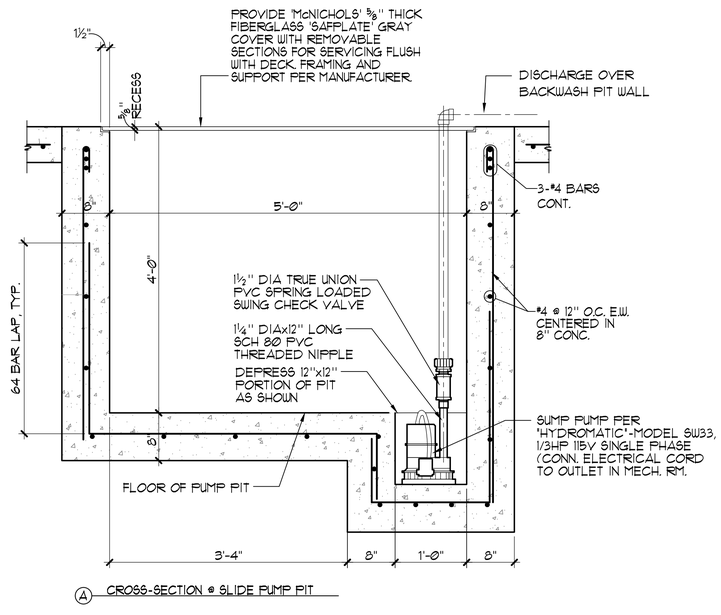
1" = 1'-Ø"



3 RAIL CHANNEL DETAIL

NO SCALE





4 SLIDE PUMP PIT DETAIL

1"=1'-Ø"

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MILLER PARK POOL
THE CITY OF LYNCHBURG
SLIDE DETAILS

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GENERAL NOTES

1. THE PIPING SYSTEM SHALL HAVE DIRECTION OF FLOW ARROWS INDICATED ON THE PIPES.
2. PUBLIC POOLS SHALL HAVE A FLOW DIAGRAM OF THE POOL'S PIPING SYSTEM WITH OPERATION INSTRUCTIONS.
3. THE FLOW DIAGRAM AND INSTRUCTIONS SHALL BE AVAILABLE ON THE PREMISES AT ALL TIME
4. ALL MECHANICAL ROOM FLOORS SHALL BE SLOPED A MIN ¼" PER FOOT TO A DRAIN PER CBC 3122B. SEE ARCHITECTURAL SHEETS FOR SPOT ELEVATIONS AND SLOPES.
5. ALL ELECTRICAL CONDUITS WITHIN MECHANICAL ROOM AND CHEMICAL ROOMS SHALL BE RIDGID NEMA 3R SUITABLE FOR CORROSIVE ATMOSPHERE.
6. ALL CHEMICAL FEED SYSTEMS ARE INTERLOCKED WITH THEIR ASSOCIATED CIRCULATION PUMPS AND SHALL NOT OPERATE WHEN THE PUMP IS OFF OR DURING THE FILTER BACKWASH.

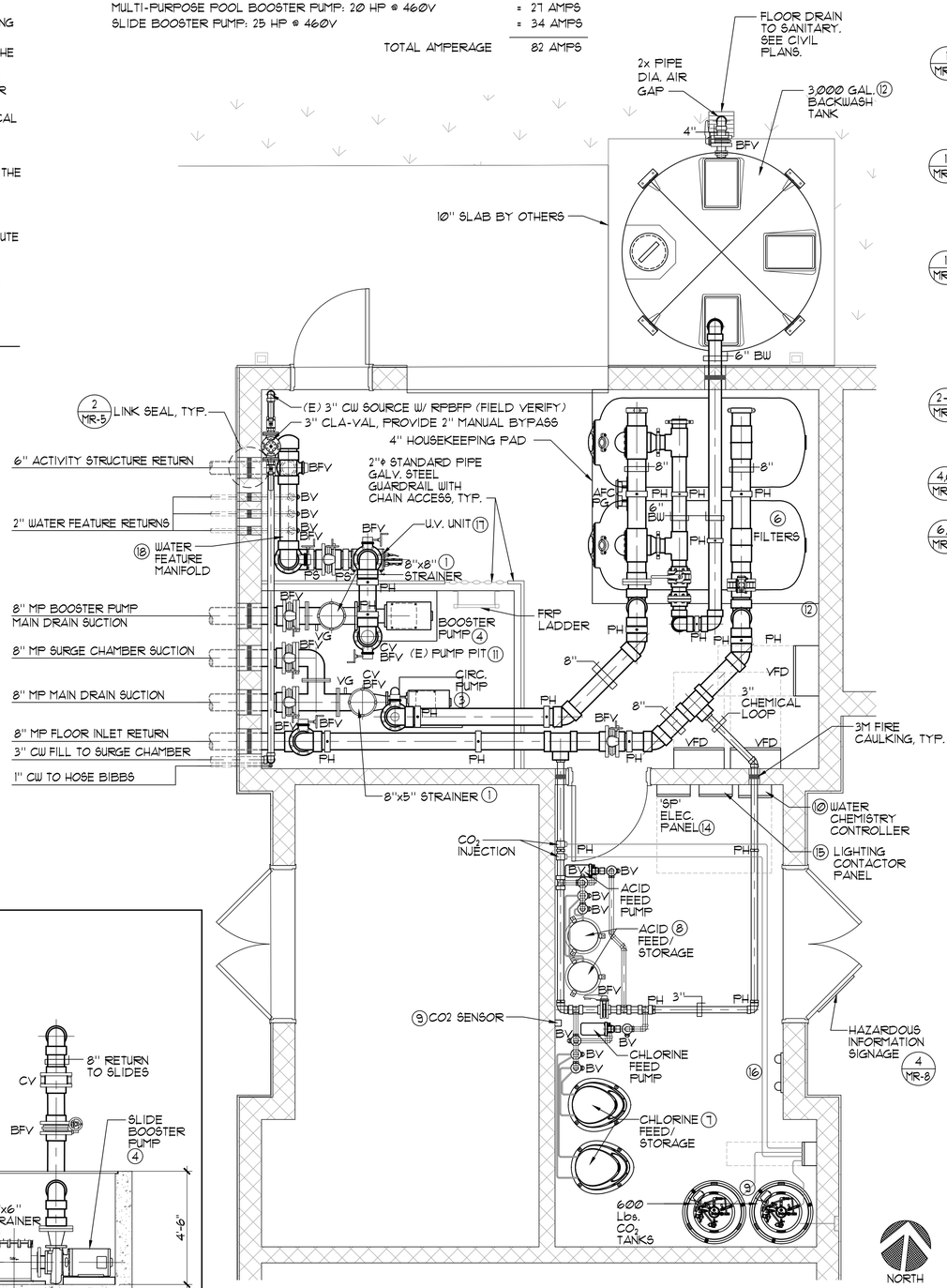
   A PLACARD SHALL BE PROMINENTLY DISPLAYED SHOWING THE FOLLOWING DATA:
   1. SIZE OF SWIMMING POOL IN FEET AND VOLUME IN GALLONS
   2. CAPACITY OF FILTERS IN SQUARE FEET AND GALLONS PER MINUTE
   3. CAPACITY OF THE PUMPS IN GALLONS PER MINUTE AT THE APPROPRIATE HEAD IN FEET
   4. HEAL LOSS AT WHICH THE FILTERS SHOULD BE BACKWASHED
   5. COMPLETE INSTRUCTIONS FOR OPERATING THE RECIRCULATION AND DISINFECTION EQUIPMENT.

LEGEND

BV	=	BALL VALVE
BFV	=	BUTTERFLY VALVE
CV	=	CHECK VALVE
FM	=	FLOWMETER (1 / MR-4)
BW	=	BACKWASH
FS	=	FLOOR SINK
AI	=	ACID INJECTION
CI	=	CHLORINE INJECTION
PH / PS	=	PIPE HANGER / PIPE SUPPORT (3-4 / MR-7)
PG/VG	=	VACUUM / PRESSURE GAUGE (8 / MR-2)
FD	=	FLOOR DRAIN
RPBFP	=	REDUCED PRESSURE BACKFLOW PREVENTOR
HB	=	HOSE BIB
MP	=	MULTI-PURPOSE POOL

THREE PHASE MOTOR LOADS AT 460V

MULTI-PURPOSE POOL CIRCULATION PUMP: 15 HP @ 460V	=	21 AMPS
MULTI-PURPOSE POOL BOOSTER PUMP: 20 HP @ 460V	=	27 AMPS
SLIDE BOOSTER PUMP: 25 HP @ 460V	=	34 AMPS
TOTAL AMPERAGE		82 AMPS



EQUIPMENT LIST

(1) PUMP STRAINER(S): 'MER-MADE' F.O. SERIES FRP REDUCING BASKET STRAINER: ONE (1) 8"x5" STANDARD WITH ACRYLIC LID, ONE (1) 8"X8" STANDARD WITH ACRYLIC LID, AND TWO (2) STAINLESS STEEL STRAINERS EA. (150lbs.)

(2) SLIDE BOOSTER PUMP STRAINER(S): 'EVOQUA' 'PRO-STRAINER' STAINLESS STEEL 10"X6" REDUCING STRAINER: *PSV10065C-C WITH TWO (2) SETS OF STAINLESS STEEL STRAINER BASKETS.

(1 / MR-2)(1-3 / MR-6)(1 / MR-7) (3) MULTI-PURPOSE POOL CIRCULATION PUMP: 'PACO' *4095-7, 4"x5"x8.93" TYPE 'LC' END SUCTION CENTRIFUGAL PUMP; 1760 RPM 460V, 3PH; 15HP; RATED AT 700 GPM @ 60 FT. TDH; 81.78% EFFICIENT; PREMIUM EFFICIENCY TEFC MOTOR; EPOXY COAT ALL WET SURFACES. 'PACO', 'AURORA' OR EQUAL. (254 lbs.) PROVIDE 'SPCS' EKO-FLEX PUMP CONTROL SYSTEM VARIABLE SPEED DRIVE MODEL SPCS015N4X4 SYSTEM 18.9"x8.27"x10.23" DRIVE SET TO 675 GPM FLOW RATE AND PANEL 24"x24"x10" COMBINED. COORDINATE MOUNTING LOCATION TO MAINTAIN DESIRED CLEARANCES, 460V 3PH, (156 lbs. COMBINED WEIGHT)PROVIDE CLASS C GFCI (SPGFCI) SHOCK BLOCK LITTELFUSE PRODUCTS STANDALONE GFCI BOX (NOT GFCI CIRCUIT ON PANEL) *SB5000 SERIES. ONE (1) TOTAL.

(1 / MR-2)(1-3 / MR-6)(1 / MR-7) (4) MULTI-PURPOSE POOL BOOSTER PUMP: 'PACO' *6012-3, 6"x8"x11.26" TYPE 'LC' END SUCTION CENTRIFUGAL PUMP; 1181 RPM 460V, 3PH; 20HP; RATED AT 850 GPM @ 50 FT. TDH; 80.52% EFFICIENT; PREMIUM EFFICIENCY TEFC MOTOR; EPOXY COAT ALL WET SURFACES. 'PACO', 'AURORA' OR EQUAL. (722 lbs.) PROVIDE 'SPCS' EKO-FLEX PUMP CONTROL SYSTEM VARIABLE SPEED DRIVE MODEL SPCS020N4X4 SYSTEM 18.9"x8.27"x10.23" DRIVE SET TO 840 GPM FLOW RATE AND PANEL 24"x24"x10" COMBINED. COORDINATE MOUNTING LOCATION TO MAINTAIN DESIRED CLEARANCES, 460V 3PH, (192 lbs. COMBINED WEIGHT)PROVIDE CLASS A GFCI (SPGFCI) SHOCK BLOCK LITTELFUSE PRODUCTS STANDALONE GFCI BOX (NOT GFCI CIRCUIT ON PANEL) *SB5000 SERIES. ONE (1) TOTAL.

(1 / MR-2)(1-3 / MR-6)(1 / MR-7) (5) SLIDE POOL BOOSTER PUMP: 'PACO' *5095-7, 5"x6"x8.83" TYPE 'LC' END SUCTION CENTRIFUGAL PUMP; 1760 RPM 460V, 3PH; 25HP; RATED AT 1250 GPM @ 55 FT. TDH± 85.44% EFFICIENT; PREMIMUM EFFICIENCY TEFC MOTOR; EPOXY COAT ALL WET SURFACES. 'PACO', 'AURORA' OR EQUAL. (541 lbs.) PROVIDE 'SPCS' EKO-FLEX PUMP CONTROL SYSTEM VARIABLE SPEED DRIVE MODEL SPCS025N4X4 SYSTEM 18.9"x8.27"x10.23" DRIVE SET TO 1200 GPM FLOW RATE AND PANEL 24"x24"x10" COMBINED. COORDINATE MOUNTING LOCATION TO MAINTAIN DESIRED CLEARANCES, 460V 3PH, (190 lbs. COMBINED WEIGHT)PROVIDE CLASS A GFCI (SPGFCI) SHOCK BLOCK LITTELFUSE PRODUCTS STANDALONE GFCI BOX (NOT GFCI CIRCUIT ON PANEL) *SB5000 SERIES. ONE (1) TOTAL.SLIDE BOOSTER PUMP SHALL BE INTERCONNECTED WITH THE SLIDE CIRCULATION PUMP TO PROHIBIT SLIDE BOOSTER PUMP OPERATION WHEN SLIDE CIRCULATION PUMP IS OFF. PUMP LOCATED AT SLIDE.

(2-3 / MR-2)(5 / MR-2)(1 / MR-4) (6) MULTI-PURPOSE POOL FILTER: 'EKO³ SYSTEMS GEN 2' *EKO-42260-0806-T2 PROVIDE STAND ALONE 'BECSYS' AUTOMATIC FILTER CONTROL (AFC) FULLY AUTOMATIC HI-RATE PERMANENT MEDIA FILTER WITH AFM GLASS MEDIA, 52 SQ. FT. OF FILTER AREA RATED AT 780 GPM AT 15 GPM/SQ. FT. COMPLETE WITH 8" FACE PIPING, 6" BACKWASH, SEISMIC ANCHORAGE. PROVIDE ALL UTILITIES, PIPING, VALVING ETC. (8,660 lbs.) 'EKO² SYSTEMS GEN 2' OR EQUAL. PROVIDE SIGNET P51530-PX FLOW SENSOR WITH DIGITAL READ-OUT. ONE (1) SYSTEM TOTAL.

(46 / MR-2)(2 / MR-3)(2 / MR-4) (7) CHLORINE STORAGE/FEED SYSTEM: PROVIDE PULSAR 'PRECISION' CHLORINATION UNIT MODEL WITH MAX. 189 LBS/DAY OUTPUT, 70 LB. STORAGE, COMPLETE WITH PIPING, VALVING, VENTURI INJECTION AND 'PENTAIR' WHISPERFLO HIGH PERFORMANCE PUMP PRODUCT *011643 1 HP BOOSTER PUMP. NSF 50 CERTIFIED. THREE (3) TOTAL. PROVIDE ADDITIONAL RELAY

(6,7 / MR-2)(2 / MR-3)(3 / MR-4) (8) ACID STORAGE/FEED SYSTEM: PULSAR 'ACID PLUS', 60lb, STORAGE WITH MAX. 990 lbs./DAY OUTPUT COMPLETE WITH PIPING, VALVING, VENTURI INJECTION AND 'JANDY' 'STEALTH' HIGH PERFORMANCE PUMP PRODUCT *SHPF3.0-3PH, 1 HP BOOSTER PUMP. NSF 50 CERTIFIED. THREE (3) TOTAL. PROVIDE ADDITIONAL RELAY CONTROLS.

(3-5 / MR-3)(3 / MR-8) (9) CARBON DIOXIDE STORAGE FEED SYSTEM: PROVIDE TWO (2) 'NOVO-750', 750 lb. CRYOGENIC LIQUID CO_2 STORAGE TANK WITH REMOTE FILL PORT, 594 LIQUID lbs, (5,195 CUBIC FEET OF GASEOUS CO_2 AT NTP). PROVIDE TWO (2) 'EKO³ CO_2' FLOW CONTROL UNITS WITH FLOW ADJUSTMENTS FROM 20-200 SCFH WITH DUAL TANK SWITCHOVER, ONE CAPPED (W5-009-040115). PRESSURE REGULATOR WITH GAUGES (W5-283-001200) FOR UP TO 850 PSI NOMINAL CYLINDER PRESSURE AND 40 PSI OUTPUT TO CO_2 FEED UNIT FROM. SYSTEM USED AS A PH DEPRESSANT (ACID FEED) TO MAINTAIN PH LEVELS BETWEEN 7.2 - 7.8 PER STATE HEALTH CODE. PROVIDE HARD WIRED CO_2 DETECTOR 'ANALOX SENSOR TECHNOLOGY' MODEL *API KIT SENSOR AND STROBE UNITS 120V HARD WIRED W/ STROBE LIGHT AND AUDIBLE ALARM. SENSOR MOUNTED 18 INCHES A.F.F. AND ALARM LEVEL BETWEEN 10-16 INCHES AND WITHIN VISIBLE EYESIGHT OF DOOR. TO BE SET TO DETECT CO_2 GAS IN LEVELS IN EXCESS OF THE PEL. PROVIDE IN EACH ROOM CONTAINING CO_2.

(1 / MR-3) (10) WATER CHEMISTRY CONTROLLER: PROVIDE ETHERNET CONNECTION TO 'PROMINENT' DCM 512 WATER CHEMISTRY CONTROLLER WITH REMOTE INTERFACE AND FLOW CELL. 1PH, 5A AT 120 VAC, NEMA 4X ENCLOSURE PROVIDE COMPLETE SYSTEM CONTROL PACKAGE WITH (5) CONTROL RELAYS, PH, ORP, PPM, AND COMBINED PPM ON NON-STABILIZED (CYA) WATER. CHEMICAL CONTROLLER TO BE PROVIDED WITH START-UP AND PROGRAMMING INCLUDING ALARMS/FAIL SAFE STATES AND REMOTE MONITORING COMMUNICATION. CHEMICAL CONTROLLER TO BE INTERLOCKED WITH RECIRCULATION EQUIPMENT, INCLUDING VFD AND CHEMICAL FEED PUMPS. PROVIDE ONE (1) SYSTEMS TOTAL.

(3-4 / MR-5) (11) (E) PUMP PIT: 7'-0"x 10'-0"x4'-0" DEEP. (E) STEEL PIPE GUARDRAIL. (E) FLOOR DRAIN TO WASTE. PROVIDE (N) WATERPROOFING PER SPECIFICATIONS. (E) LADDER.

(9 / MR-2) (12) BACKWASH TANK: 3000 GAL. TANK 'CHEM-TAINER' *TC3000IW-BLACK WITH 4" FLOOR SINK TO WASTE. PROVIDE 2 x PIPE SIZE AIR GAP AT BACKWASH OPENING.

(1 / MR-5) (13) FILL SYSTEM: 3" 'CLA-VAL' FILL SYSTEM TO INCLUDE 3" 'CLA-VAL' SOLENOID CONTROL VALVE *136-01BY, 3" DUCT IRON, EPOXY COATED BODY WITH CAST IRON DISC RETAINER AND DIAPHRAGM WASHER, BRONZE TRIM, FLANGED GLOBE PATTERN, 120V AT 60HZ. SOLENOID WIRING SHALL BE WIRED TO BECSYS AUTOFILL SYSTEM *BECSYSLVL+. PROVIDE 6" AIR GAP AT FILL POINT. ONE (1) SYSTEMS TOTAL.

(1-2 / MR-8) (14) ELECTRICAL: PROVIDE ALL ELECTRICAL WIRING, CONDUIT, PANEL(S), STARTER/DISCONNECT INTERCONNECT(S) ETC. AS REQUIRED FOR PROPER EQUIPMENT INSTALLATION PER MANUFACTURERS RECOMMENDATIONS AND SHOP DRAWINGS. COORDINATE ALL WORK WITH OTHER TRADES AS REQUIRED. REFER TO ELEC. PLANS FOR ALL ADDITIONAL INFO.

(5 / MR-8)(1 / MR-8) (15) LIGHTING CONTACTOR PANEL: 'ALLEN BRADLEY' *500L; OR APPROVED EQUAL. PANEL SHALL BE MOUNTED IN A NEMA 4x HINGED COVER - LOCKABLE ENCLOSURE. CONTACTORS TO BE SWITCHED BY MOMENTARY SWITCH EQUAL TO 'HUBBELL' *1557 MOUNTED IN J-BOX IN MECHANICAL EQUIPMENT ROOM. REFER TO ELECTRICAL PLANS FOR LOCATION OF OWNER COORDINATED REMOTE UNDERWATER LIGHT SWITCH.

(16) PORTABLE EYEWASH STATION: 'HONEYWELL' EYESALINE® WALL STATION *32-000462-0000 WITH DOUBLE 32 OZ. BOTTLES MOUNTED TO THE WALL; 19"x14"x4" DEEP. ONE (1) TOTAL. PROVIDE A PAIR OF REPLACEMENT REFILL BOTTLES. (23 lbs.)

(4 / MR-4) (17) WATER FEATURE ULTRA VIOLET TREATMENT SYSTEM: 'ETS' *UF-215-8-N, 2x15KW WITH 30A BREAKER, RATED AT 1,100 GPM @ 40 mJ/cm², 208V 1PH (141 lbs). COMPLETE WITH CONTROLLER 23"x31"x12" DEEP, 110 lbs. ONE (1) TOTAL. PROVIDE 8" PIPING BYPASS, VALVING, ETS EZ VALVE STRAINER AND INSTALLATION AND PIPING PER MANUFACTURER'S RECOMMENDATIONS. ONE (1) SYSTEM TOTAL.

(4 / MR-1) (18) WATER FEATURE MANIFOLD: FIELD BUILT SCHEDULE 80 PVC MANIFOLD WITH TRUE UNION BALL VALVES. MUST HAVE THE ABILITY TO BE COMPLETELY DRAINED FOR WINTERIZATION. MANIFOLD TO BE SECURED TO WALL WITH PIPE SUPPORTS.

(1 / SP-7 SIM.)(4 / SL-2) (19) (N) SLIDE PUMP PIT: 4'-0"x 7'-0"x4-6" DEEP. PROVIDE REMOVABLE ACCESS PANELS. PROVIDE SUMP PUMP. PROVIDE WATERPROOFING PER SPECIFICATIONS. ACCESS LADDER TO BE 'LANE INTERNATIONAL CORPORATION' POLYPROPYLENE VAULT LADDER WITH PULL-UP RAIL OR EQUAL.

(4 / SL-2) (20) SUMP PUMP: HYDROMATIC' *W33± 115V, 1 PH± ½ HP± IN A 12"x12" DEPRESSED SUMP. PIPE WITH SCH 80 PVC DISCHARGE TO DECK DRAIN WITH AIR GAP OR GRAVEL AREA UNDER SLIDE AREA. PROVIDE 2x PIPE SIZE AIR GAP AT DRAIN/DECK. FIELD VERIFY DECK DRAIN INVERT ELEVATION.

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2 SLIDE PUMP PIT ⅜"=1'-0"

1 MECHANICAL ROOM LAYOUT PLAN ⅜"=1'-0"

COMMONWEALTH OF VIRGINIA
GREGORY S. SCHELL
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REVISION DESCRIPTION	DATE

DATE 05/29/2026
DRAWN BY NMV
DESIGNED BY GSF
CHECKED BY GSF
SCALE AS SHOWN

MILLER PARK POOL
THE CITY OF LYNCHBURG
MECHANICAL ROOM LAYOUT PLAN

JOB NO. 57972.002
SHEET NO. MR-1

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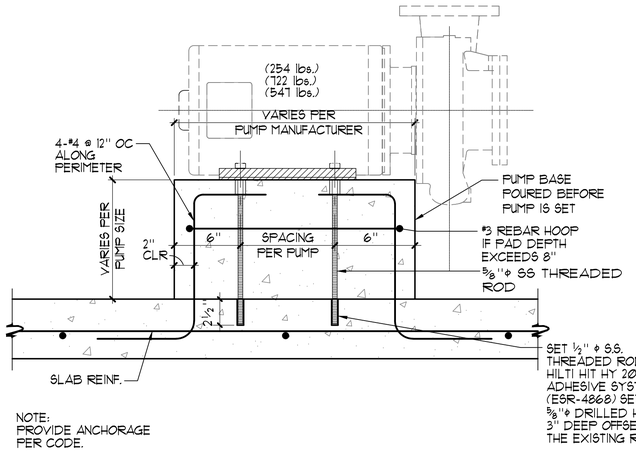
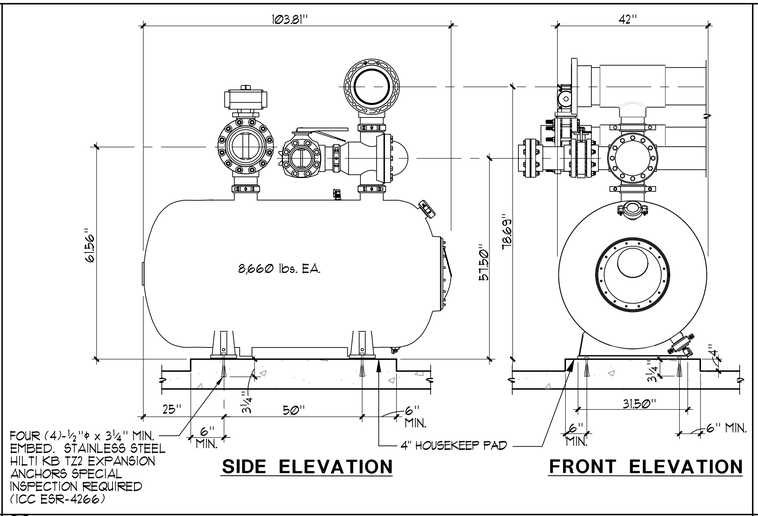
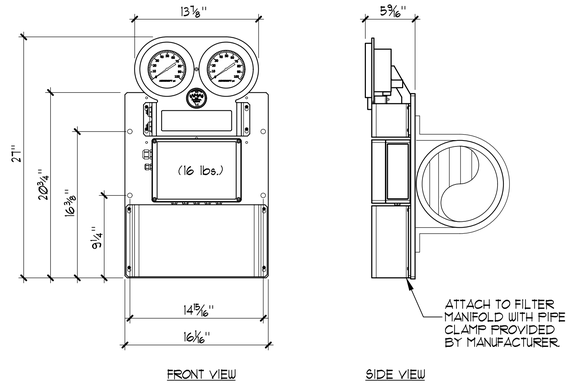


1 PUMP ANCHORAGE NO SCALE



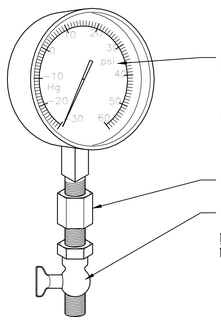
SIDE ELEVATION **FRONT ELEVATION**

2 FILTER ANCHORAGE NO SCALE



FRONT VIEW SIDE VIEW

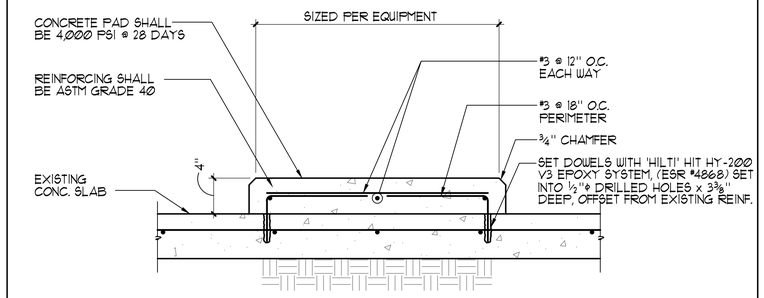
3 BECSYS FILTER INTERFACE SYSTEM 1½"=1'-0"



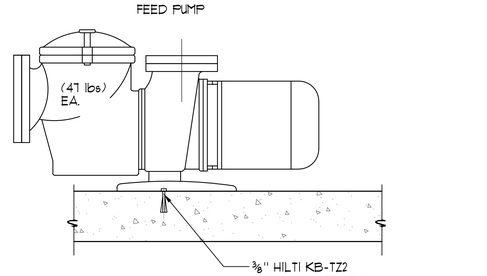
- LIQUID FILLED S/S CASED PRESSURE GAUGES SHALL HAVE A DIAL RANGE PRESSURE OF 60psi AND VACUUM RANGE OF 30" Hg THE MINOR GRADUATIONS SHALL HAVE A PRESSURE OF 2psi AND VACUUM OF 2" Hg, ¼" NPT PER SPECIFICATIONS.
- SNUBBER
- 'PETCOCK' MODEL #A10, BRASS

NOTES:
1. PRESSURE GAUGES SHALL BE INSTALLED BY MEANS OF DRILLING AND TAPPING PIPE TO BE MONITORED. THE GAUGE SHALL THEN BE THREADED INTO THE PIPE. PROVIDE WITH SNUBBER AND PET COCK.
2. GAUGE MAY BE USED WHEREVER CRUCIAL VACUUM OR PRESSURE READINGS ARE ESSENTIAL.

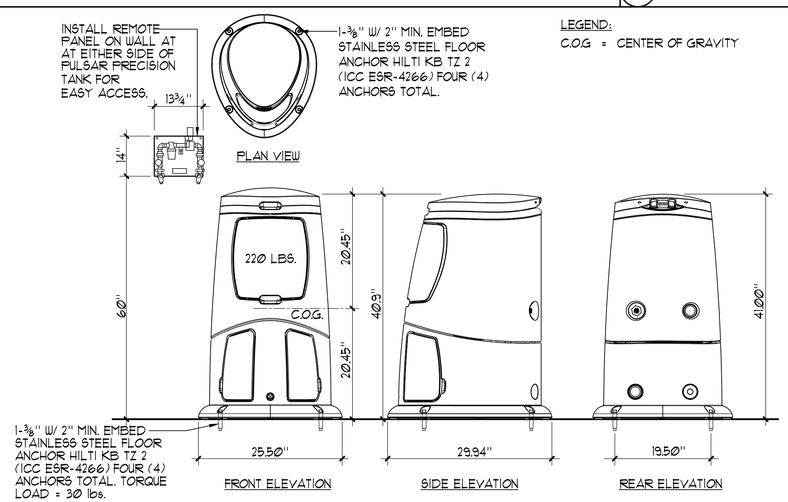
4 PRESSURE/ VACUUM GAUGE 6"=1'-0"



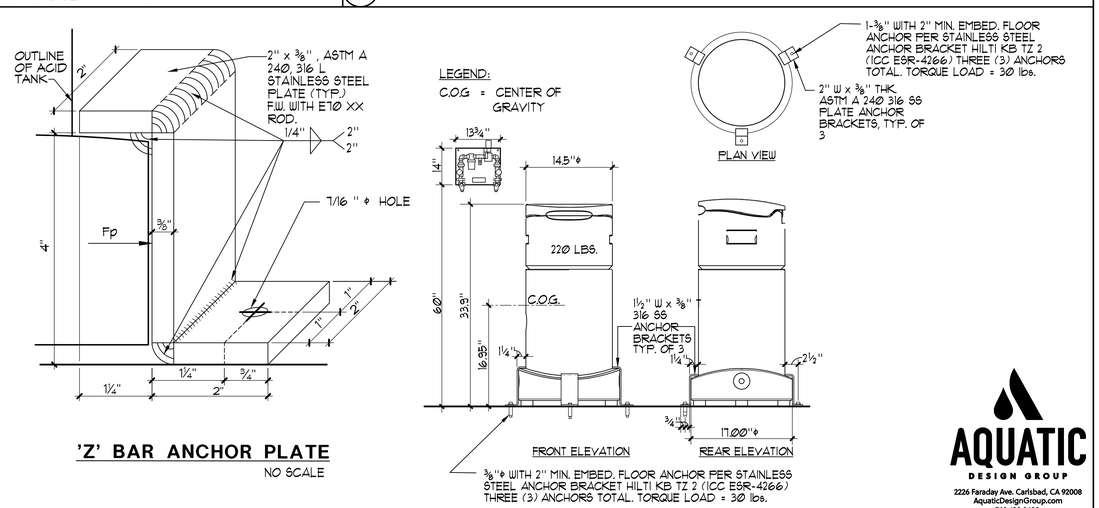
5 RETROFIT MECHANICAL PAD 1½" = 1'-0"



6 PUMP ANCHORAGE NO SCALE



7 PULSAR PRECISION SYSTEM DETAIL NO SCALE



8 PULSAR ACID PLUS SYSTEM NO SCALE

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MILLER PARK POOL
THE CITY OF LYNCHBURG

MECHANICAL DETAILS

JOB NO. 57972.002
SHEET NO. MR-2

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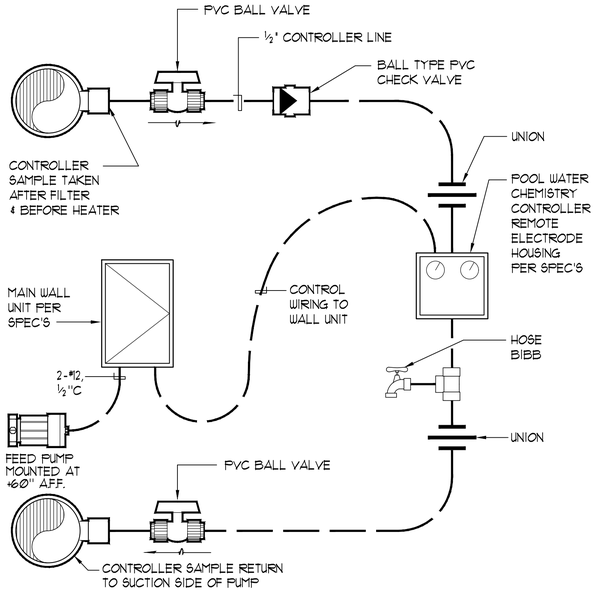
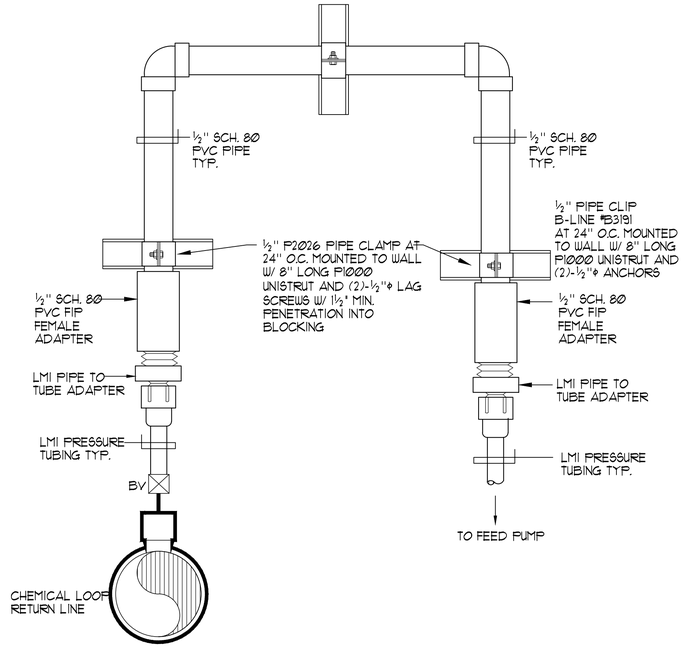
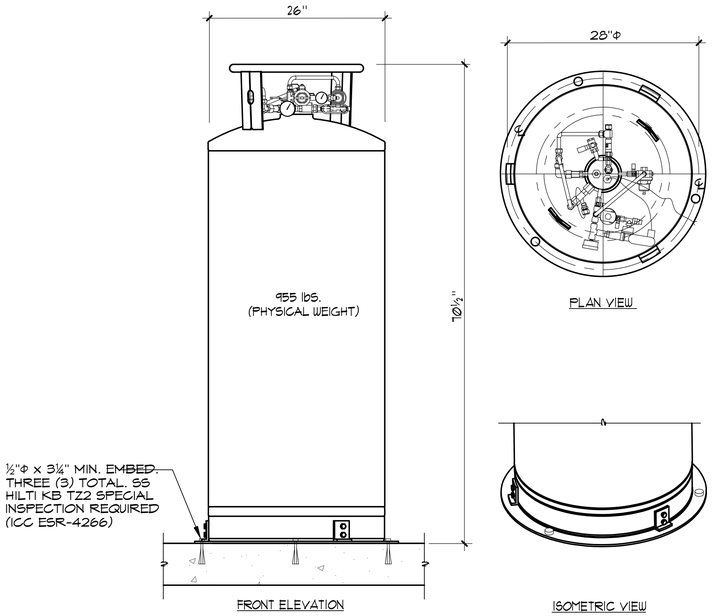


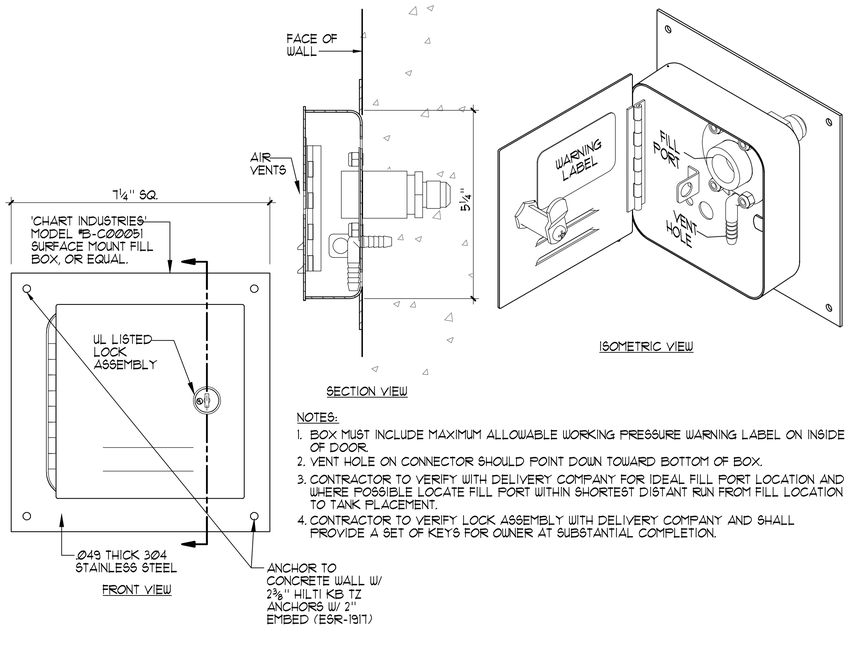
1 WATER CHEMISTRY CONTROLLER SCHEMATIC NO SCALE



2 CHEMICAL FEED PIPING DETAIL NO SCALE



3 CO2 TANK ANCHORAGE DETAIL NO SCALE



SECTION VIEW

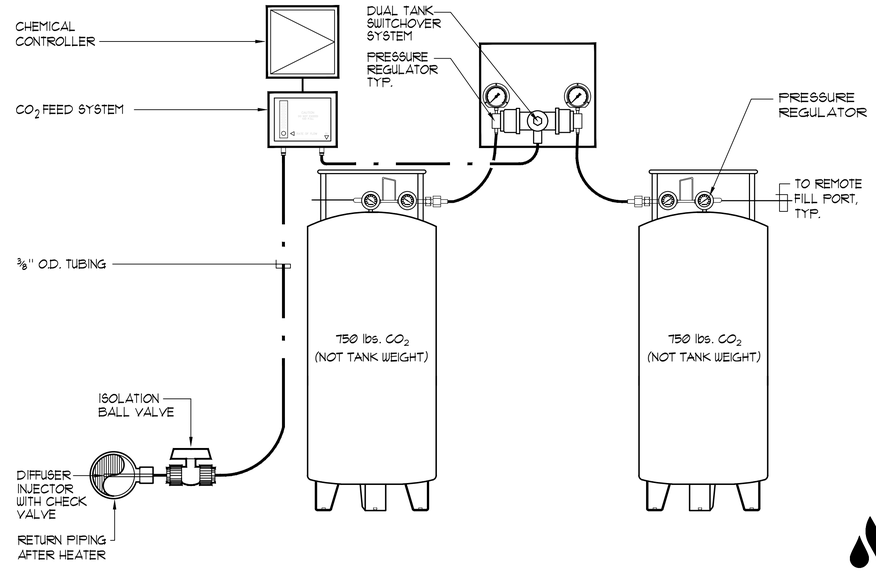
ISOMETRIC VIEW

FRONT VIEW

NOTES:

1. BOX MUST INCLUDE MAXIMUM ALLOWABLE WORKING PRESSURE WARNING LABEL ON INSIDE OF DOOR.
2. VENT HOLE ON CONNECTOR SHOULD POINT DOWN TOWARD BOTTOM OF BOX.
3. CONTRACTOR TO VERIFY WITH DELIVERY COMPANY FOR IDEAL FILL PORT LOCATION AND WHERE POSSIBLE LOCATE FILL PORT WITHIN SHORTEST DISTANT RUN FROM FILL LOCATION TO TANK PLACEMENT.
4. CONTRACTOR TO VERIFY LOCK ASSEMBLY WITH DELIVERY COMPANY AND SHALL PROVIDE A SET OF KEYS FOR OWNER AT SUBSTANTIAL COMPLETION.

4 CO2 SURFACE MOUNT FILL BOX ½"=1"



5 CARBON DIOXIDE FEED SCHEMATIC NO SCALE

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THE CITY OF LYNCHBURG
MECHANICAL DETAILS

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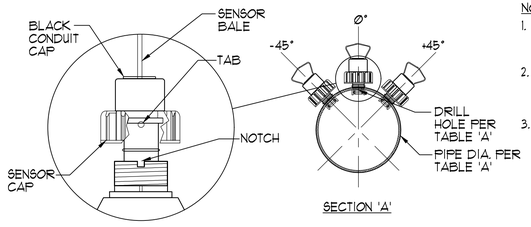


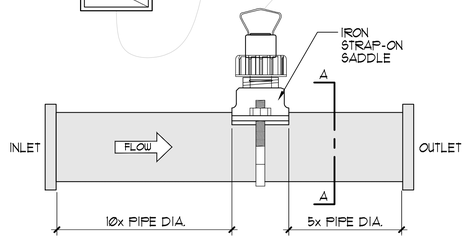
SECTION 'A'

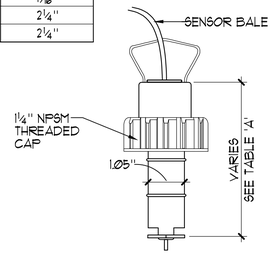
NOTES:

1. HORIZONTAL PIPE RUNS: MOUNT SENSOR IN -45°, Ø°, OR +45° POSITION PER MANUFACTURER'S RECOMMENDATIONS.
2. VERTICAL PIPE RUNS: MOUNT SENSOR IN ANY ORIENTATION PER MANUFACTURER'S RECOMMENDATIONS.
3. FLOW SENSOR LOCATION PER PLAN

FLOW DISPLAY
AUTOMATIC FILTER = FILTER CONTROLLER
MANUAL FILTER = 'SIGNET' 3-5090

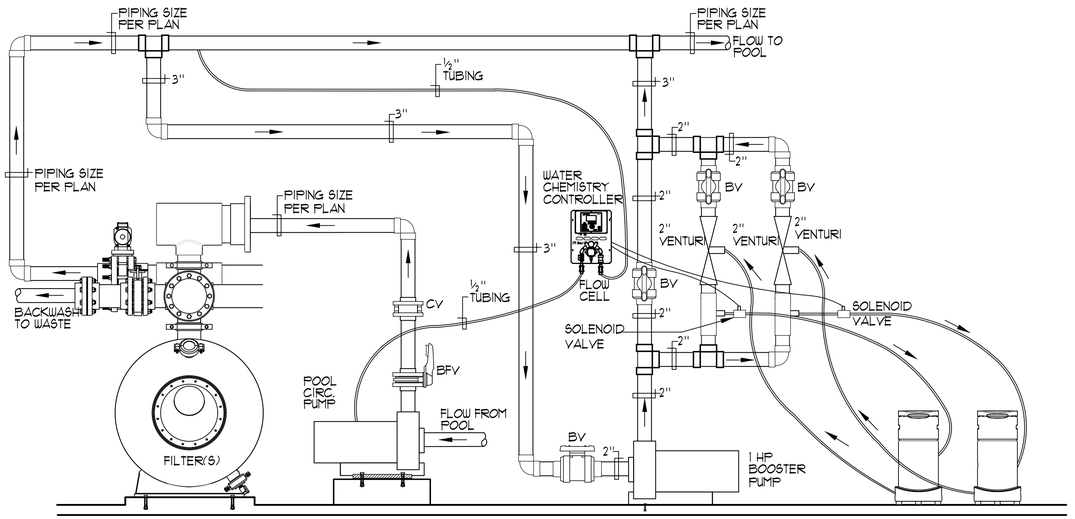
SIGNET 515 - TABLE 'A'		
PIPE DIA.	FLOWSENSOR LENGTH	DRILL HOLE
½" THRU 4"	4.1"	1⅞"
5" THRU 8"	5.4"	2¼"
10" AND UP	8.4"	2¼"



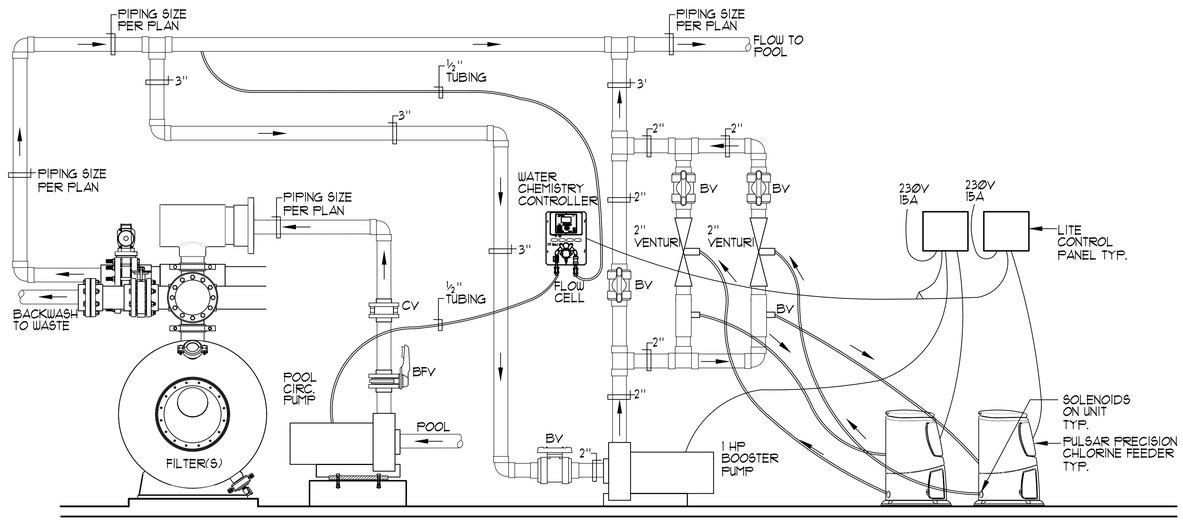


SIGNET 515 STANDARD FLOW SENSOR

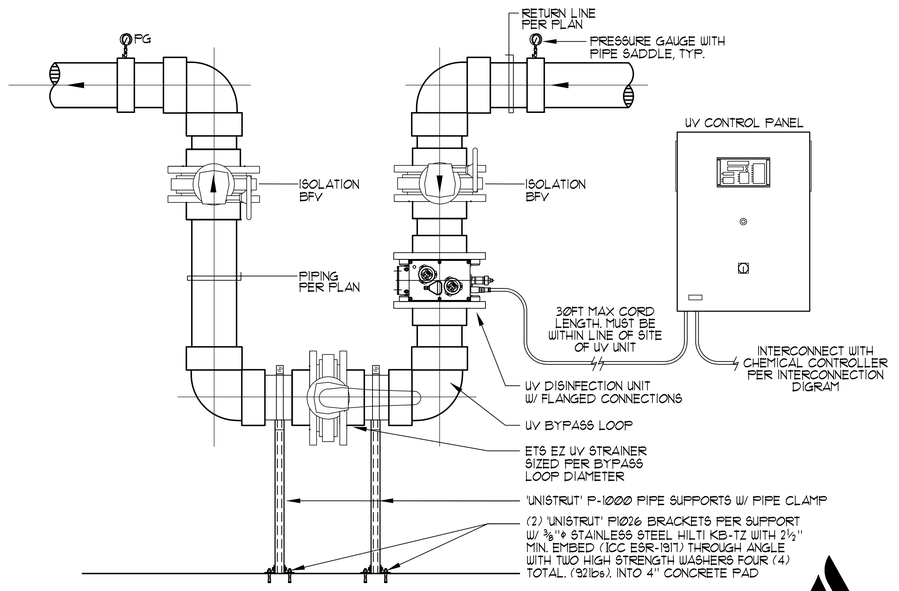
1 SIGNET FLOWMETER NO SCALE



2 PULSAR ACID PLUS SYSTEM SCHEMATIC NO SCALE



3 PULSAR PRECISION SYSTEM SCHEMATIC NO SCALE



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4 ECF U.V. DISINFECTION UNIT INSTALLATION DETAIL NO SCALE

COMMONWEALTH OF VIRGINIA
MARTELL MONTGOMERY
No. 0402065200
PROFESSIONAL ENGINEER

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REVISION DESCRIPTION

DATE

DATE 05/29/2026
DRAWN BY NMV
DESIGNED BY GSF
CHECKED BY GSF
SCALE AS SHOWN

MILLER PARK POOL
THE CITY OF LYNCHBURG
MECHANICAL DETAILS

JOB NO. 57972.002
SHEET NO. MR-4

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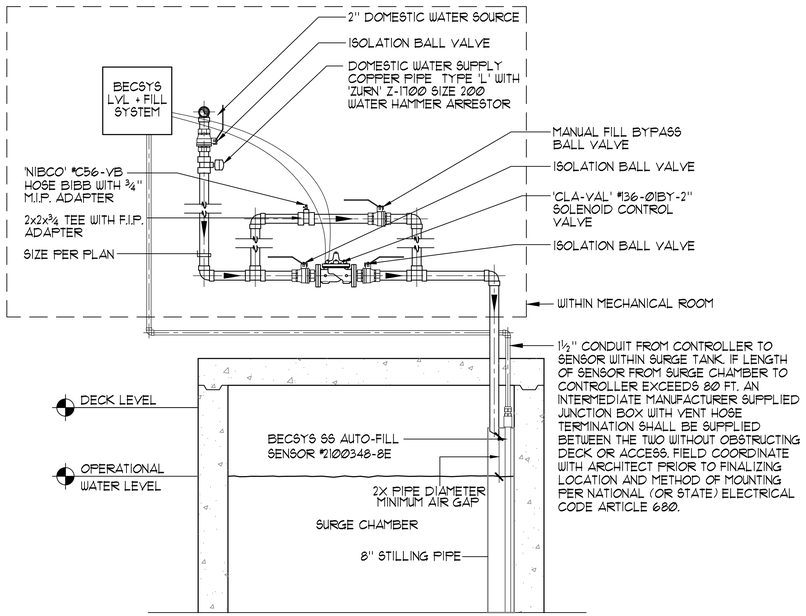
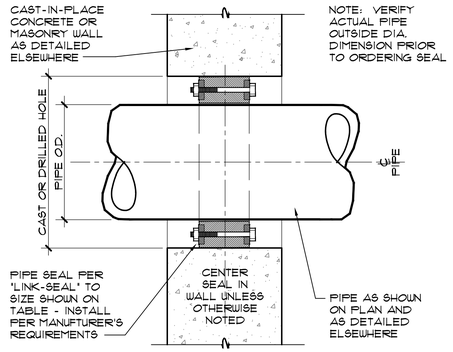
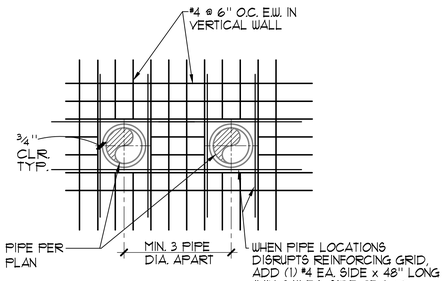


1 AUTOMATIC/MANUAL WATER MAKE-UP SCHEMATIC NO SCALE



PIPE SIZE (NOMINAL)	OUTSIDE DIAMETER (PIPE O.D.)	CAST OR DRILLED CONCRETE HOLE NOM. DIA (ID)	LINK SEAL SIZE NO.	NO. OF LINKS PER SEAL
½"	Ø.840	2.0	LS-200	4
¾"	1.050	2.5	LS-275	5
1"	1.315	3.0	LS-300	4
1¼"	1.660	3.0	LS-275	7
1½"	1.900	3.5	LS-300	5
2"	2.375	4.0	LS-300	6
2½"	2.875	4.0	LS-200	9
3"	3.50	5.0	LS-300	8
3½"	4.00	6.0	LS-325	5
4"	4.50	6.0	LS-300	10
5"	5.563	8.0	LS-425	6
6"	6.625	10.0	LS-475	10
8"	8.625	12.0	LS-475	12
10"	10.75	14.0	LS-400	10
12"	12.75	16.0	LS-400	12
14"	14.00	16.0	LS-325	15
16"	16.00	18.0	LS-325	17
18"	18.00	23.0	LS-500	16
20"	20.00	25.0	LS-500	18
22"	22.00	27.0	LS-500	19
24"	24.00	29.0	LS-500	21
26"	26.00	31.0	LS-500	23
28"	28.00	33.0	LS-500	24
30"	30.00	35.0	LS-500	26
32"	32.00	37.0	LS-500	28
34"	34.00	39.0	LS-500	29
36"	36.00	41.0	LS-500	30

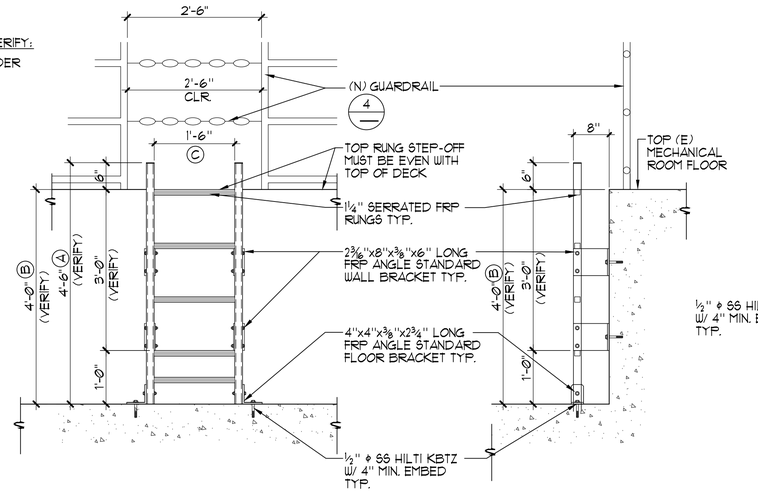
2 PIPE SEAL TO WALL / FLOOR NO SCALE



A SURGE CHAMBER REINFORCING AT PIPE PENETRATIONS
½" = 1'-0"

CONTRACTOR TO VERIFY:
- (A) OVERALL LADDER HEIGHT
- (B) PIT DEPTH
- (C) LADDER WIDTH

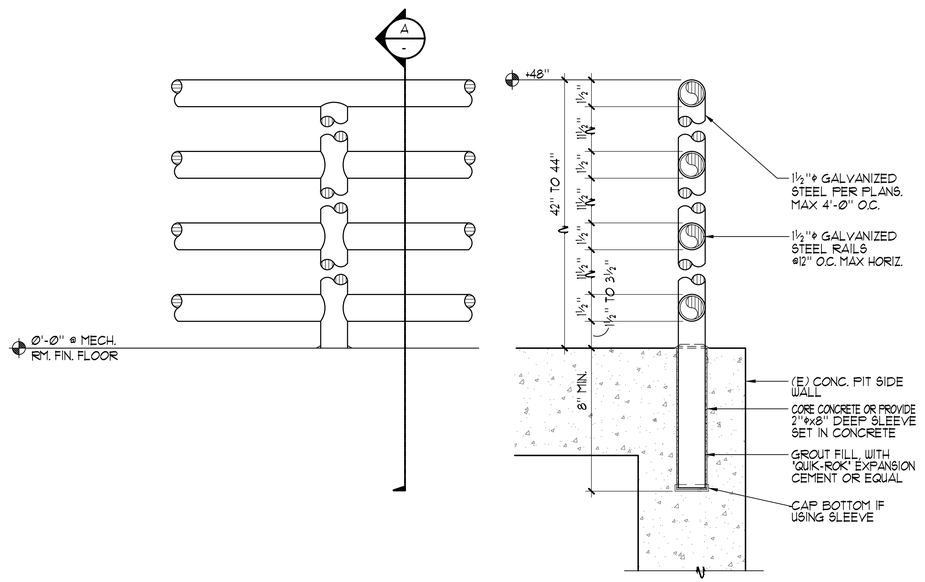
(N) 'FIBERGRATE' DYNARAIL FRP ACCESS LADDER. COLOR TO BE GRAY.



1 FRONT ELEVATION

2 SIDE ELEVATION

3 PUMP PIT ACCESS LADDER ¾" = 1'-0"



ELEVATION

A GUARD RAIL SECTION

4 PIT GUARD RAIL 3"=1'-Ø"

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MILLER PARK POOL
THE CITY OF LYNCHBURG
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JOB NO. 57972.002
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#

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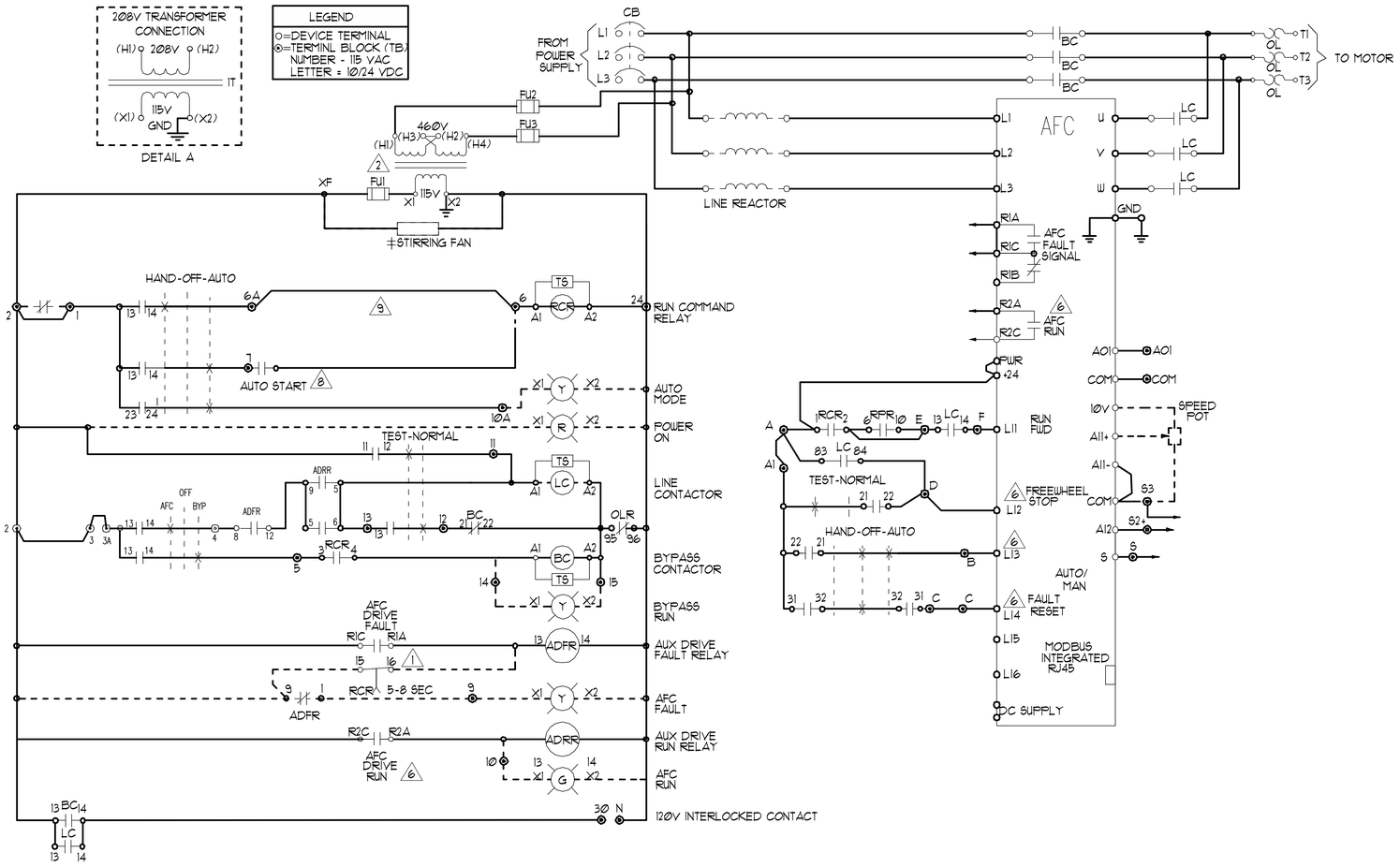
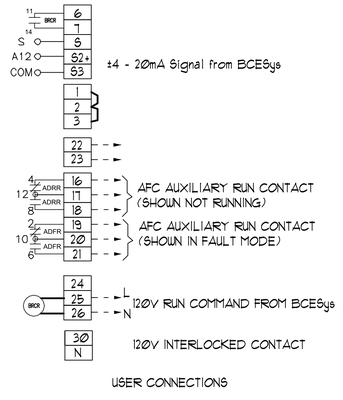


EKO-FLEX ATV61 FACTORY CONFIGURATION					
MENU	No	SUB-MENU	DESCRIPTION	CODE	ADJ.
SIM	1.1	----	2/3 WIRE CONTROL	tCC	2C
SIM	1.1	----	PUMPS FANS	CFG	FnF
SIM	1.1	----	STANDARD MOT. FREQ (HZ)	bFr	60
SIM	1.1	----	ACCELERATION (SEC)	ACC	10
SIM	1.1	----	DECELERATION (SEC)	dEC	10
SIM	1.1	----	LOW SPEED (HZ)	LSP	3
SIM	1.3	----	SWITCHING FREQ. (HZ)	SCr	8
I - O	1.5	----	2 WIRE TYPE	tCt	LEL
I - O	1.5	AI2 CONFIG.	AI2 MIN. VALUE (mA)	CrI2	4
I - O	1.5	R2 CONFIG.	R2 ASSIGN - DRIVE RUNNING	r2C	rUn
CtL	1.6	----	REF. 1 CHAN	FRI	HMI
CtL	1.6	----		FRI	AI1
CtL	1.6	----	PROFILE	CHCF	SEP
FUn	1.7	STOP CONFIG.	FREEWHEEL STOP ASSIGN	nST	LI2
FUn	1.7	REFERENCE SWITCH	REF. 1B SWITCHING	rCb	LI3
FUn	1.7	REFERENCE SWITCH	REF. 1B CHAN	FrIb	AI2
FLt	1.8	FAULT RESET	FAULT RESET	rSF	LI4
FLt	1.8	CATCH ON THE FLY	CATCH ON THE FLY	FLR	YES
FLt	1.8	OUTPUT PHASE LOSS	OUTPHASE LOSS	PDL	NO
COM	1.9	FORCED LOCAL	FORCED LOCAL ASSIGN.	FLt	LI4

DESCRIPTION	TYPE 1	TYPE 12K	TYPE 3R
⏚ STIRRING FANS	10-100 HP 460V, 7.5-50HP 208/230V	10-100 HP 460V, 7.5-50HP 208/230V	NA
⏚ VENTILIATION FAN	NA	NA	ALL HP
⏚ SPACE HEATER	NA	NA	ALL HP

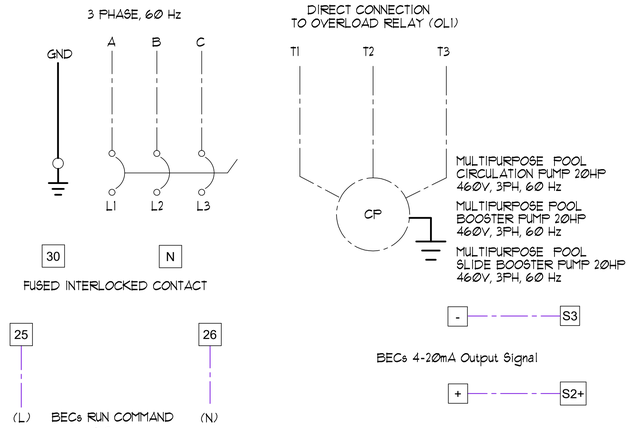


NOTES:

1. RCR TIMED CONTACT USED ONLY IF LINE CONTACTOR IS SUPPLIED
2. CONTROL TRANSFORMER SHOWN FOR 460V PRIMARY. FOR 230V PRIMARY, JUMPER H2-H3 IS
6. PROGRAMMED I/O SEE CONTROLLER FUNCTION CONFIGURATION TABLE.
8. BECs RUN COMMAND RELAY (BRCR)
9. JUMPER USED WHEN START-STOP PUSH BUTTONS NOT USED.

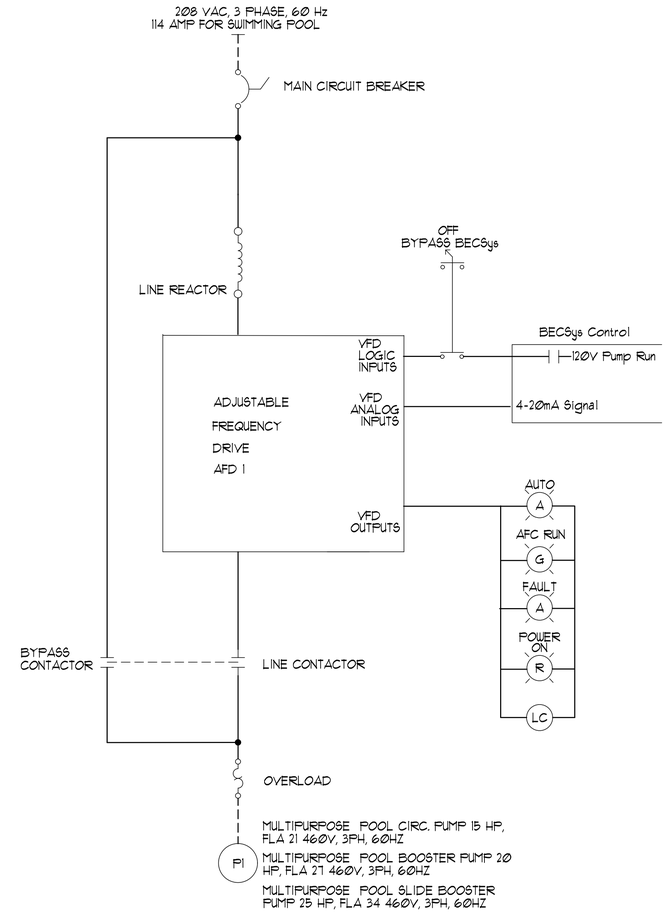
(1) 'SPCS' VARIABLE FREQUENCY DRIVE SYSTEM SCHEMATIC

NO SCALE



(2) 'SPCS' FIELD CONNECTION DIAGRAM

NO SCALE



(3) 'SPCS' SINGLE LINE DIAGRAM

NO SCALE

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THE CITY OF LYNCHBURG
MECHANICAL DETAILS

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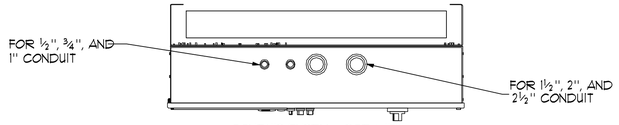
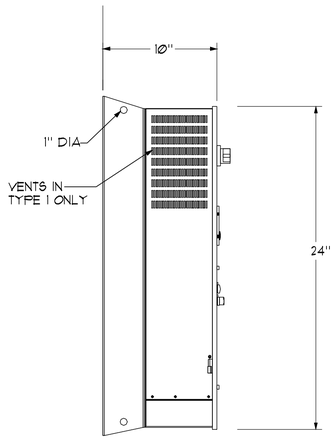
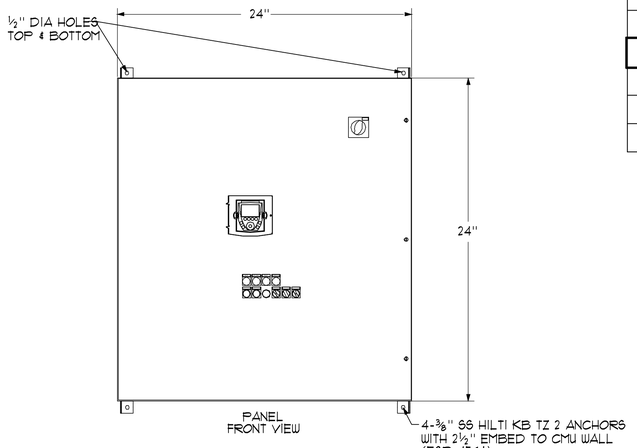


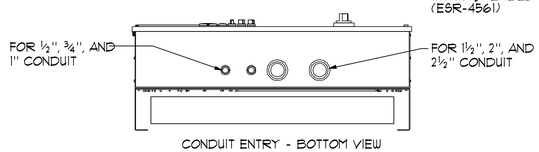
CONDUIT ENTRY - TOP VIEW



PANEL SIDE VIEW



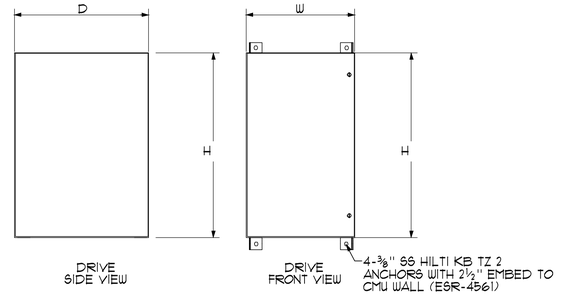
PANEL FRONT VIEW



CONDUIT ENTRY - BOTTOM VIEW

'SPCS' DRIVE TABLE

HP	HP	DIMENSIONS		
460V	208/230V	H	W	D
5-10	5	19.1"	4.33"	9.63"
15 TO 25	7.5 TO 15	18.9"	8.27"	10.23"
30 TO 40	20	25.6"	9.53"	10.23"
50	25 TO 40	26.9"	10.7"	12.2"
N/A	50	30.2"	13.5"	13"

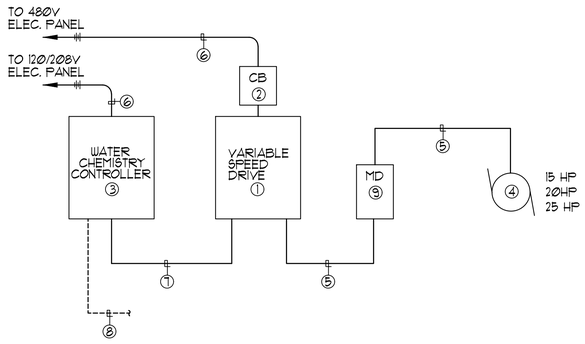


DRIVE SIDE VIEW

DRIVE FRONT VIEW

NOTE:
PROVIDE AT LEAST 3" OF MOUNTING CLEARANCE ON EACH SIDE OF THE DRIVE CONTROLLER.
PROVIDE AT LEAST 6" OF MOUNTING CLEARANCE ON EACH TOP AND BOTTOM OF THE DRIVE CONTROLLER

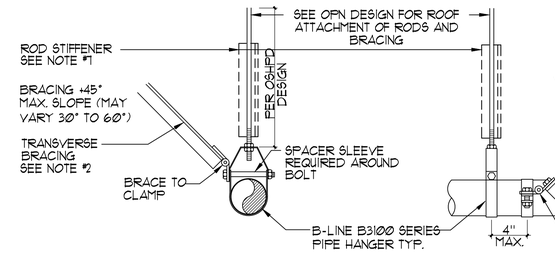
1 'SPCS' ENCLOSURE DIMENSIONS NO SCALE



NOTES:

1. VARIABLE SPEED DRIVE MOTOR CONTROL CABINET, SEE PLANS AND SPECIFICATIONS.
2. ENCLOSED CIRCUIT BREAKER, SEE SINGLE LINE DIAGRAM.
3. WATER CHEMISTRY/FILTER CONTROL UNIT, SEE PLANS.
4. CONNECT TO CIRCULATION PUMP MOTOR, SEE PLANS.
5. MOTOR FEEDERS, SEESINGLE LINE DIAGRAM.
6. 120 VOLT BRANCH CIRCUITS, SEE PLANS.
7. ¾"C, (4) #12, (1) #12 GND. (120 VOLT CONTROL WIRING)
8. 24 VOLT SIGNAL AND SENSOR CABLING, SEE SPECIFICATIONS AND INSTALLATION INSTRUCTIONS FOR ADDITIONAL REQUIREMENTS.
9. MOTOR DISCONNECT, SEE PLANS.

2 TYPICAL WIRING SCHEMATIC AT SPCS UNIT NO SCALE



HANGER/BRACE PERPENDICULAR

HANGER/BRACE LONGITUDINAL

HANGER ROD SIZES/TABLE

⅜"ϕ AT 3" PIPING MAX. ROD LENGTH = 158" MAX PER OFM FG. C1.22
⅝"ϕ AT 4" PIPING MAX. ROD LENGTH = 158" MAX PER OFM FG. C1.34
¾"ϕ AT 6" PIPING MAX. ROD LENGTH = 158" MAX PER OFM FG. C1.44
¾"ϕ AT 8" PIPING MAX. ROD LENGTH = 158" MAX PER OFM FG. C1.44
¾"ϕ AT 12" PIPING MAX. ROD LENGTH = 158" MAX PER OFM FG. C1.44

MAX. PIPE HANGER SPACING

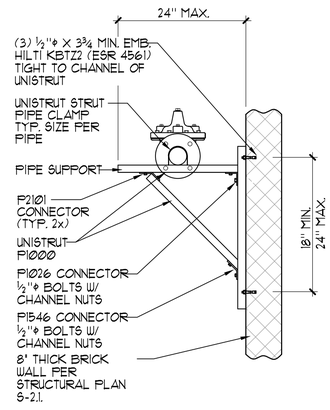
4" PIPING OR SMALLER = 6'-0" O.C.
6" PIPING = 6'-0" O.C.
8" PIPING = 6'-0" O.C.
10" PIPING = 6'-0" O.C.

NOTES:

1. REFER TO OSHPD (OFM #0043-13) FOR PIPE HANGER HARDWARE & INSTALLATION. INSTALLATION SHALL SATISFY ANCHORAGE REQUIREMENTS OF ACI 318 CHAPTER 17.
2. PROVIDE BRACING FOR EACH PIPE HANGER IN TWO DIRECTIONS AT THE FOLLOWING CONDITIONS.
   - AT EACH CHANGE IN PIPE RUN DIRECTION
   - MID LENGTH OF PIPE RUN
   - SPACING NOT TO EXCEED 12'-0" O.C.

   1⅝x1⅝x12GA SINGLE STRUT (5'-0" LENGTH MAX)
   1⅝x1⅝x12GA DOUBLE STRUT (14'-6" LENGTH MAX)
3. ALL HARDWARE SHALL BE STAINLESS STEEL OR GALVANIZED SEE SPECIFICATION FOR ADDITIONAL INFORMATION.
4. REFER TO STRUCTURAL PLANS FOR TYPICAL DIAGONAL BRACE ATTACHMENT.
5. FOR COPPER TUBING USE COPPER PLATED OR PAINTED B3104CT, FELT LINED B3100F, OR PLASTIC COATED B3100C.
6. REFER TO MR1 FOR PIPE HANGER LOCATIONS.
7. PROVIDE ROD STIFFENER WHEN TRANSVERSE OR LONGITUDINAL BRACING IS USED AND ROD LENGTHS EXCEEDS 37', SEE OFM DESIGN

3 'UNISTRUT' PIPING HANGER / SUPPORT DETAILS

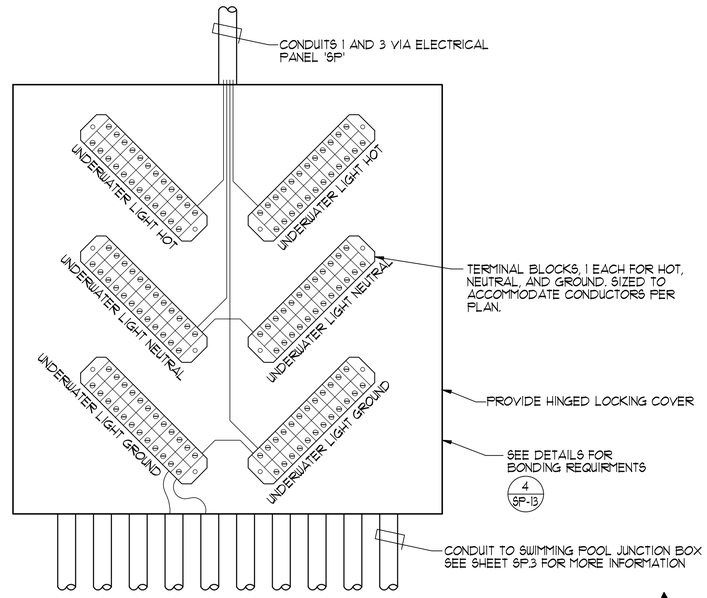


EXTENDED WALL MOUNTED PIPE SUPPORT

MAX. PIPE SUPPORT SPACING

3" PIPING OR SMALLER = 6'-0" O.C.
6" PIPING = 6'-0" O.C.
8" PIPING = 6'-0" O.C.
10" PIPING = 6'-0" O.C.

4 WALL MOUNTED PIPE SUPPORT NO SCALE



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5 UNDERWATER LIGHT CONTACTOR PANEL NO SCALE

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GREGORY S. SEXTELL
REGISTERED
ARCHITECT

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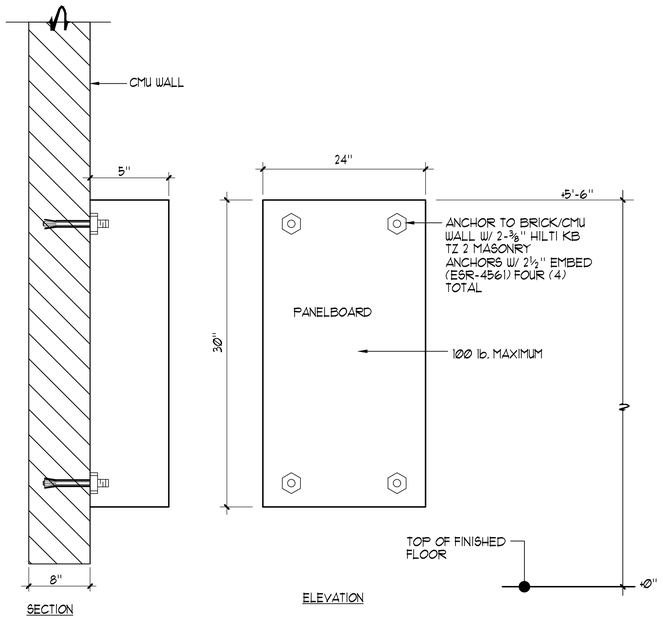


DESIGNATION: 'SP'	VOLTAGE: 120/208V 3PH 4W			LOCATION: MECHANICAL EQUIP. RM.			
	150 AMP ☒MAIN BREAKER ☐MAIN LUG			MINIMUM DEVICE A.I.C. RATING	☒10,000 ☐14,000	PANELBOARD KEY NOTES	
	☐RECESSED ☒SURFACE					① ② ③ ④	

DESCRIPTION:	C/B	CIR NO.	φ A	φ B	φ C	CIR NO.	C/B	DESCRIPTION:
UNDERWATER LIGHTS	① 20/1	1	696			2	20/1	FILTER AFC
		3	1200	522		4		FILTER AMP PUMP
		5		1200	696	6		FILTER PRIORITY VALVE
LOW VOLTAGE UL TRANSFORMER		7	200		1200	8		WATER CHEM RELAY
		9	360	200		10		CIRC PUMP MTR CONTROL
UNDERWATER LIGHTS		11		360	174	12		CIRC PUMP INTERCONNEC.
DECK RECEPTACLES		13	720		360	14		BOOSTER PUMP INTERCONN.
		15	360	720		16	20/2	CHLORINE FEED
		17		1056	720	18		1 HP
WATER CHEM CONTROL		19	1200		1056	20	20/2	ACID FEED
U.V. SYSTEM	30/2	21	1056	1500		22		1 HP
		23		1056	1500	24	20/1	SLIDE BOOSTER INTERCONN.
CO2 ALARM	① 20/1	25	720		360	26		SLIDE E-STOP ①
CO2 HEATERS		27	720	720		28		ACTIVITY STRUCTURE E-STOP
		29		720	720	30		SPARES
CO2 FEED		31	720		720	32		SPACE
SPACE		33				34		
		35				36		
		37				38		
		39				40		
		41				42		
TOTAL PER PHASE			7,952	8,054	7,506	9,496 ÷ 120V = 80 AMPS		
+ 25% L.C.L.			1,544	1,305	1,132			
TOTAL			9,496	9,359	8,638			

① GFCI CIRCUIT

② PROVIDE CLASS A GFCI (SPGFCI) SHOCK BLOCK LITTELFUSE PRODUCTS STANDALONE GFCI BLOCK (NOT GFCI CIRCUIT ON PANEL) #SB5000 SERIES

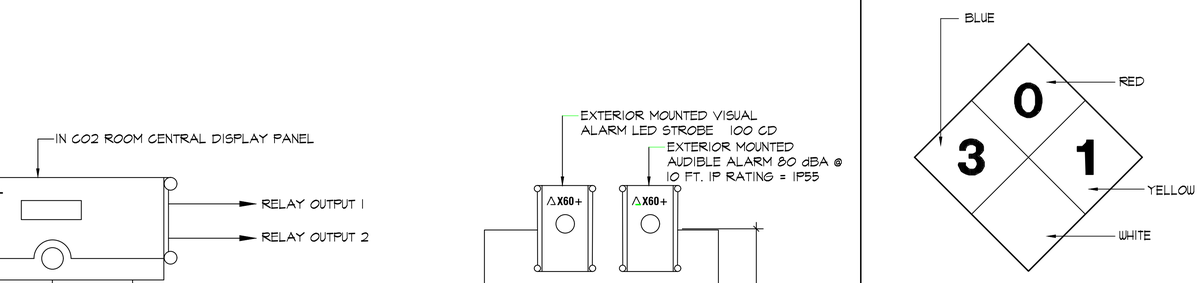
③ BLANK FACE GFCI CIRCUIT @ UL JUNCTION BOXES

④ ALL PANELS SHALL BE NEMA 4X, PER SPECIFICATIONS

1 PANELBOARD MOUNTING DETAIL

NO SCALE

2 ELECTRICAL PANEL

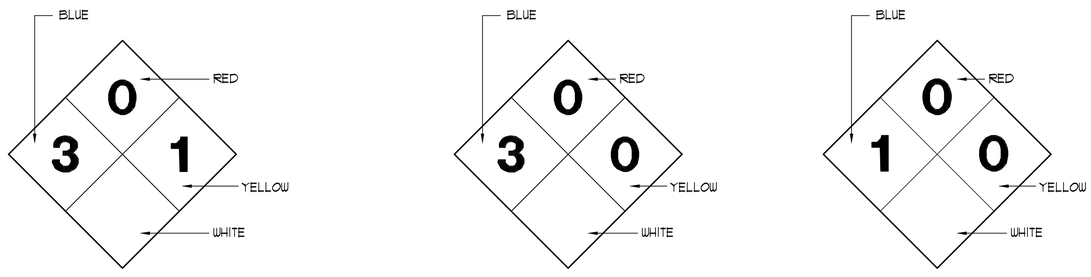


NOTE:

THE CO2 SENSOR IS SET BY DEFAULT TO TRIGGER A LOW-LEVEL ALARM AT 1.5% CO2, AN EVACUATION ALARM AT 3% CO2 AND A TIME-WEIGHTED AVERAGE ALARM OF 0.5% CO2 MEASURED OVER EIGHT HOURS. WARNINGS ARE ANNOUNCED BY HIGH VISIBILITY STROBE LIGHTS AND HIGH-VOLUME SOUNDERS.

3 CARBON DIOXIDE MONITOR AND ALARM SCHEMATIC

NO SCALE



CALCIUM HYPOCHLORITE

CARBON DIOXIDE
for 600lb storage

SODIUM BISULFATE

CHEMICAL CLASSIFICATION TABLE									
COMMON NAME	CHEMICAL NAME	% COMP.	CAS #	FORM	QUANT. STORED (NOT USED)	QUANT. IN USE (USE-CLOSED)	MAXIMUM ALLOWABLE QUANTITY	LOCATION (STORAGE & USE)	HAZ. CLASSES	JUSTIFICATION
CARBON DIOXIDE	CARBON DIOXIDE	100%	124-39-9	LIQUID	750 lbs.	750 lbs.	NO LIMIT	CHEM. ENCLOSURE	CRYOGENIC	MSDS
CALCIUM HYPOCHLORITE	CALCIUM HYPOCHLORITE	65%	7778-54-3	TABLET	100 lbs.	200 lbs.	220 lbs.	CHEM. ROOM	OXIDIZER	MSDS
SODIUM BISULFATE	SODIUM BISULFATE	93%	7681-38-1	TABLET	60 lbs.	120 lbs.	NO LIMIT	CHEM. ROOM	IRRITANT	MSDS

PROVIDE MINIMUM 8" WIDE x 6" TALL SIGN STATING 'CAUTION - CARBON DIOXIDE GAS' IF ALARM IS SOUNDING DO NOT ENTER VENTILATE AREA BEFORE ENTERING

QUANTITIES OF CHEMICALS DO NOT EXCEED THE QUANTITIES LISTED IN CFC TABLE 5003.1.1(4).
FOR CARBON DIOXIDE GAS SEE TABLE 1.12.8(b) OF THE NFPA. 6000 FT^3 ALLOWABLE OR 686 lbs. OR MORE REQUIRING A PERMIT TO REGISTER WITH FIRE DEPARTMENT. NO LIMIT TO QUANTITY OF CO2. STORAGE PER CONTAINED AREA
PROVIDE HARD WIRED CO_2 DETECTOR 'ANALOX SENSOR TECHNOLOGY' MODEL #API KIT SENSOR AND STROBE UNITS 120V HARD WIRED W/ STROBE LIGHT AND AUDIBLE ALARM. SENSOR MOUNTED 18 INCHES AFF. AND ALARM LEVEL BETWEEN 10-16 INCHES AND WITHIN VISIBLE EYESIGHT OF DOOR TO BE SET TO DETECT CO2 GAS IN LEVELS IN EXCESS OF THE PEL. PROVIDE IN EACH ROOM CONTAINING CO_2.

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4 HAZARDOUS INFORMATION SIGNAGE

COMMONWEALTH OF VIRGINIA
MARTELL MONTGOMERY
No. 0402065200
PROFESSIONAL ENGINEER

THIS DRAWING PREPARED AT THE
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YOUR VISION ACHIEVED THROUGH OURS.

TIMMONS GROUP

REVISION DESCRIPTION	DATE

DATE 05/29/2026
DRAWN BY NMV
DESIGNED BY GSF
CHECKED BY GSF
SCALE AS SHOWN

MILLER PARK POOL
THE CITY OF LYNCHBURG
MECHANICAL DETAILS

JOB NO. 57972.002
SHEET NO. MR-8

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M:\Drawings\Recreation AA\Miller Park Pool Renovation - Lynchburg, VA\MPP - MR&MR DETAILS.dwg | Plotted on 6/1/2026 11:24 AM | by Norma Villegas

DESIGN
DESIGN IS IN ACCORDANCE WITH THE FOLLOWING CODES:

2021 VIRGINIA UNIFORM STATEWIDE BUILDING CODE (VUSBC) - 2021 VIRGINIA CONSTRUCTION CODE

ASCE 7-22 MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES

ACI 318-19 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE

ANSI/AISC 360—16 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS

ANSI/AWC NDS—2018 NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION—WITH 2018 NDS SUPPLEMENT

DESIGN LOADS

A. BUILDING RISK CATEGORY:----------II

B. SUPERIMPOSED DEAD LOADS (DL) IN ADDITION TO STRUCTURE SELF-WEIGHT:
- ROOF FINISH: ----------1.5 PSF
- STRUCTURAL ROOF SHEATHING: ----------2.5 PSF
- ROOF MEMBRANE:----------0.60 PSF
- INSULATION: ----------1 PSF
- CEILING: ----------3 PSF
- SPRINKLER ALLOWANCE:----------2 PSF
- MISCELLANEOUS COLLATERAL:----------1 PSF
- OVERHEAD PLUMBING: ----------1 PSF
- ELECTRICAL:---------- 1 PSF
- MECHANICAL DUCTWORK: ----------2 PSF
- SOLAR ALLOWANCE:---------- 0 PSF

C. GROUND SURCHARGE - LIVE LOADS (LL)
- LOBBIES:----------100 PSF
- LIGHT STORAGE:---------- 125 PSF

D. LIVE ROOF LOADS (RLL)
- LIVE ROOF LOAD: ----------20 PSF

E. SNOW LOADS (SL) PLUS DRIFTING WHERE APPLICABLE
- GROUND SNOW LOAD, Pg: ----------42 PSF
- EXPOSURE FACTOR, Ce: ----------0.9
- THERMAL FACTOR, Ct: ----------1.2
- SLOPE FACTOR CS: ----------1
- IMPORTANCE FACTOR, Is:---------- 1
- MINIMUM ROOF SNOW LOAD, Pm: ----------N/A
- FLAT ROOF SNOW LOAD: ----------31.8 PSF
- SLOPED ROOF SNOW LOAD, Ps: ---------- 31.8 PSF

UNBALANCED SNOW LOAD: N/A NO ROOF RAFTERS

GABLE ROOF SNOW LOADS- UNBALANCED (DRIFT/OTHER):
- ROOF SLOPE----------4:12 (Ø=18.5°)
- 0.3*PS----------9.5 PSF
- UNBALANCED PLUS SLOPED ROOF SNOW LOAD----49.1 PSF
- RIDGE UNBALANCED WIDTH----------7.11 FT

F. WIND LOADS - (W)
- WIND EXPOSURE: ----------B
- ENCLOSURE CLASSIFICATION: ----------ENCLOSED
- DESIGN WIND VELOCITY: ----------110 MPH
- INTERNAL PRESSURE COEFFICIENT, GCpi:---------- ±0.18
- MAIN WIND FORCE RESISTING SYSTEM PRESSURES
- WALLS:---------- 16 PSF
- ROOF:---------- 16 PSF
- WIND BASE SHEAR:----------5.8 KIPS

COMPONENTS AND CLADDING LOADS WIND LOADS

COMPONENTS AND CLADDING WALL PRESSURES			
AREA	ZONE 4 & 5	ZONE 4	ZONE 5
1SF	17 PSF	-19 PSF	-23 PSF
50 SF	16 PSF	-17 PSF	-20 PSF
100 SF	16 PSF	-16 PSF	-18 PSF
250 SF	16 PSF	-16 PSF	-16 PSF

COMPONENTS AND CLADDING ROOF PRESSURES				
EFFECTIVE ROOF AREA	ALL ROOF ZONES	ZONE 1	ZONE 2	ZONE 3
1 SF	16 PSF	-32 PSF	-42 PSF	-55 PSF
10SF	16 PSF	-32 PSF	-42 PSF	-55 PSF
50 SF	16 PSF	-22 PSF	-29 PSF	-37 PSF
100 SF	16 PSF	-17 PSF	-23 PSF	-29 PSF
200 SF	16 PSF	-16 PSF	-17 PSF	-29 PSF

G. SEISMIC LOADS
- ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE (ELF)
- SOIL SITE CLASS: ----------D
- SEISMIC DESIGN CATEGORY:----------B
- MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS
- AT SHORT PERIOD, Ss: ----------0.19
- AT 1 SECOND PERIOD, S1: ----------0.062
- DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS
- AT SHORT PERIOD, S_{DS}: ----------0.16
- AT 1 SECOND PERIOD, S_{D1}: ----------0.088
- SEISMIC FORCE-RESISTING SYSTEM:
- ORDINARY REINFORCED MASONRY SHEAR WALLS
- RESPONSE MODIFICATION COEFFICIENT, R:----------2
- SEISMIC RESPONSE COEFFICIENT, Cs:----------0.16
- SEISMIC IMPORTANCE FACTOR, Ie:----------1.0
- SEISMIC BASE SHEAR, V_E:----------16 KIPS
- SEISMIC BASE SHEAR AT ROOF, V_{EROOF}----------8.0 KIPS

DESIGN RESPONSIBILITY
TIMMONS GROUP IS THE ENGINEER OF RECORD FOR THE STRUCTURAL DESIGN OF THE LIFEGUARD BUILDING SHOWN ON THESE DRAWINGS, SHADE STRUCTURES FOUNDATIONS AND PATIO RETAINING WALLS. ANY OTHER ITEMS REFERENCED ON THESE DRAWINGS ARE NOT PART OF THE SCOPE OF THESE STRUCTURAL DRAWINGS.

ALL NOTES ON STRUCTURAL DRAWINGS SHALL BE ASSUMED TYPICAL UNLESS NOTED OTHERWISE ON DRAWINGS OR SPECIFICATIONS.

SECTIONS AND DETAILS ARE TO BE USED IN ALL SIMILAR LOCATIONS UNLESS OTHERWISE SHOWN BY OTHER DETAILS AND/OR SECTIONS.

PROMPTLY NOTIFY ENGINEER OF ANY STRUCTURAL MEMBER CALLED OUT ON THE ARCHITECTURAL AND CIVIL DRAWINGS THAT IS NOT IDENTIFIED ON THE STRUCTURAL DRAWINGS.

EXISTING CONDITIONS
THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES BETWEEN INFORMATION SHOWN ON THE PLANS TO THE ACTUAL FIELD CONDITIONS. THE CONTRACTOR SHALL BE REQUIRED TO DOCUMENT EXISTING CONDITIONS BY SKETCHES OR OTHER METHODS.

DEPTHS AND LOCATIONS OF EXISTING STRUCTURES AND UTILITY LOCATIONS TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF THE WORK. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO ENSURE THAT EXISTING STRUCTURES AND UTILITIES ARE NOT DAMAGED AS PART OF THE WORK.

PROPOSED DIMENSIONS & ELEVATIONS
THE CONTRACTOR SHALL INDEPENDENTLY VERIFY ALL ELEVATIONS AND DIMENSIONS SHOWN ON THE DRAWINGS BEFORE FABRICATION AND CONSTRUCTION. IF FIELD CONDITIONS AND/OR DIMENSIONS DIFFER FROM THE PLANS, THE CONTRACTOR SHALL USE THE FIELD MEASUREMENTS AND MAKE APPROPRIATE CHANGES TO THOSE SHOWN ON THE PLANS.

CONSTRUCTION METHODS
THE CONTRACTOR SHALL TAKE THE PROPER PRECAUTIONS TO ENSURE THE STABILITY AND SAFE PERFORMANCE OF ALL STRUCTURAL ELEMENTS DURING CONSTRUCTION.

TEMPORARY BRACING
CONTRACTOR IS RESPONSIBLE FOR BRACING, WITHOUT OVERSTRESSING, ALL STRUCTURAL ELEMENTS AS REQUIRED AT ALL STAGES OF CONSTRUCTION UNTIL COMPLETION OF THE PROJECT. PROVIDE TEMPORARY LATERAL SUPPORT FOR ALL WALLS UNTIL THE WALLS ARE ADEQUATELY BRACED BY PERMANENT STRUCTURAL MEANS.

GEOTECHNICAL INFORMATION
1. DESIGN IS BASED UPON AN ASSUMED ALLOWABLE SOIL BEARING OF 3000 PSF, UNLESS NOTED OTHERWISE PER THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT "MILLER PARK POOL" BY TIMMONS GROUP DATED DECEMBER 18TH, 2025. NOTE THE CURRENT DESIGN LOADS DO NOT EXCEED A 2,000 PSF BEARING PRESSURE.

2. ASSUMED GEOTECHNICAL PARAMETERS FOR CANTILEVERED RETAINING WALLS ACTIVE PRESSURE MUST BE VERIFIED BY A PROFESSIONAL LICENSED GEOTECHNICAL ENGINEER IN THE COMMONWEALTH OF VIRGINIA PRIOR TO FABRICATION AND CONSTRUCTION OF THE RETAINING WALLS:
   - UNIT WEIGHT OF SOIL = 145 PCF
   - ACTIVE WALL PRESSURE = 38 PCF
   - SOIL FRICTION FACTOR=0.25
   - ACTIVE SOIL PRESSURE FACTOR (Ka) = 0.26
   - PASSIVE EARTH PRESSURE= 100 PCF
   - COMBINATION OF 100% PASSIVE PRESSURE AND 100% FRICTION TO RESIST SLIDING
   - WATER TABLE NOT PRESENT AT FOUNDATION BEARING
   - PASSIVE RESISTANCE STARTS 1'-0" BELOW GRADE

3. THE SITE SHALL BE PREPARED UNIFORM IN ACCORDANCE WITH CIVIL DRAWINGS, SPECIFICATIONS, AND THE DESIGN SOIL BEARING PRESSURE.

4. ALL EXCAVATIONS AND FOOTINGS SHALL BE INSPECTED BY A LICENSED GEOTECHNICAL ENGINEER TO VERIFY THE DESIGN ASSUMPTIONS AND REPORT ADVERSE CONDITIONS. ALL FOUNDATIONS SHALL BE CONCRETED PROMPTLY FOLLOWING INSPECTION.

5. WHERE FILL IS REQUIRED, IT SHALL BE PLACED IN ACCORDANCE WITH INSTRUCTIONS OF A LICENSED GEOTECHNICAL ENGINEER TO MAINTAIN DESIGN BEARING PRESSURE.

6. SOIL BELOW THE FOOTINGS NOT MEETING THE DESIGN BEARING PRESSURE SHALL BE EXCAVATED TO A DEPTH OF VERIFIABLE DESIGN PRESSURE AND BACKFILLED WITH VDOT NO. 57 STONE TO THE LEVEL OF FOUNDATION BEARING. THIS SHALL BE APPROVED BY A LICENSED GEOTECHNICAL ENGINEER.

7. AFTER STRIPPING MATERIAL FROM AREA TO BE GRADED, REMOVE ALL UNSUITABLE MATERIAL FROM EXPOSED SUBGRADE, SUCH AS DEBRIS, TRASH, ORGANIC MATTER, OR SOFT SOIL. SOIL SURFACES RECEIVING COMPACTED STRUCTURAL FILL SHALL BE PROOF-ROLLED WITH A LOADED DUMP TRUCK UNDER THE OBSERVATION OF THE GEOTECHNICAL ENGINEER. AREAS EXHIBITING EXCESSIVE PUMPING, WEAVING, OR RUTTING SHALL BE EXCAVATED AND REPLACED WITH COMPACTED STRUCTURAL FILL OR SCARIFIED, DRIED, AND RECOMPACTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING FILL.

8. CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING CONSTRUCTION TO DIRECT WATER AWAY FROM FOUNDATION CONSTRUCTION AREAS. ANY SUB-GRADE SOILS WEAKENED BY THROUGH SATURATION OR DISTURBANCE SHALL BE REMOVED AND REPLACED WITH COMPACTED STRUCTURAL FILL.

9. BOTTOM OF ALL FOOTINGS MUST BE PLACED AT A MINIMUM ELEVATION TO ACHIEVE AN OVERALL MINIMUM FROST DEPTH OF 24" FROM FINISHED GRADE. OTHERWISE PROVIDE MINIMUM OF 12" OF SOIL IF FROST DEPTH IS EXCEEDED BY FOOTING THICKNESS ALONE.

MATERIALS
ALL DETAILING, FABRICATION, AND PLACEMENT OF REINFORCING STEEL, FORM WORK, MIXING, HANDLING, PLACING, FINISHING, AND CURING OF CONCRETE SHALL BE IN ACCORDANCE WITH CURRENT EDITIONS OF ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI-315) AND ACI "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI-318).

A. REINFORCEMENT
WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A184.

REINFORCING STEEL BARS AND ALL SUPPORT DEVICES SHALL BE BLACK BARS AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615, GRADE 60.

1. ALL REINFORCING BAR SPLICES SHALL BE ACI CLASS B TENSION LAP SPLICES, U.N.O.
2. CONCRETE CLEAR COVER REQUIREMENTS SHALL BE AS FOLLOWS:
   - CAST AGAINST EARTH: 3"
   - PERMANENTLY EXPOSED TO EARTH OR WEATHER: 2"

B. CONCRETE

CONCRETE MIXES REQUIREMENTS									
MIX TYPE	COMPRESSIVE STRENGTH F'c (PSI) AT 28 DAYS	DENSITY (PCF)	EXPOSURE F	EXPOSURE S	EXPOSURE W	EXPOSURE C	AIR CONTENT	NOMINAL MAX. AGGREGATE SIZE	MAX. (w/c) RATIO
FOUNDATIONS	4,500	NWC	F2	S2	W1	C1	6%	3/4"	0.45
EXTERIOR SLAB ON GRADE	4,000	NWC	F1	S1	W1	C1	5%	3/4"	0.55
INTERIOR SLAB ON GRADE	3,000	NWC	F0	S0	W0	C0	0%	3/4"	0.55
EXTERIOR SLABS ON GRADE AT POOL DECK	5,000	NWC	F1	S1	W1	C3	5%	3/4"	0.4

1. CONCRETE SHALL CONFORM TO ASTM C94. ALL AGGREGATES SHALL CONFORM TO ASTM C33.

2. CAST SIX CYLINDERS OF EACH CONCRETE POUR. TEST TWO CYLINDERS SEVEN DAYS AFTER CASTING AND TWO 28 DAYS AFTER CASTING. HOLD TWO CYLINDERS FOR POSSIBLE TEST UNTIL 60 DAYS AFTER CASTING. DISPOSE OF CYLINDERS IF TEST IS NOT REQUESTED. SEND REPORTS TO CONTRACTOR, AND STRUCTURAL ENGINEER.

3. NO ADDITIONAL WATER SHALL BE ADDED TO THE CONCRETE AT THE JOB SITE.

4. CONCRETE SHALL BE SAMPLED FOR TESTING ACCORDING TO ASTM C172.

5. CONCRETE MIX CEMENTITIOUS MATERIALS PER ASTM C150 MUST BE TYPE II, ASTM C595 TYPE IP, IS OR IT (MS) OR ASTM C1157 TYPE MS.

6. CONTRACTOR TO CHAMFER EXPOSED EDGES OF CONCRETE TO 3/4".

7. AT LOCATIONS OF NEW CONCRETE PLACED AGAINST IN-PLACE CONCRETE, THE EXISTING CONCRETE SHALL BE ROUGHENED TO A 1/4" AMPLITUDE PRIOR TO APPLYING THE BONDING AGENT AND SUBSEQUENTLY THE NEW CONCRETE.

8. EXTERIOR GRADE PLYWOOD SUITABLE FOR CONCRETE FORMS COMPLYING WITH DOC PS1, MEDIUM DENSITY OVERLAY, CLASS 1 OR BETTER AND HARD PLASTIC FINISHED PLYWOOD SHALL BE USED AS FORMS.

9. IF FORM RELEASE AGENT IS USED, FORM RELEASE AGENT SHALL NOT STAIN OR ADVERSELY AFFECT CONCRETE SURFACES THAT WILL PREVENT THE APPROVED FINISH.

C. CONCRETE BONDING AGENT
SHALL BE A CEMENTITIOUS EPOXY RESIN AND CONFORM TO SECTION 243 OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS.

D. ISOLATION EXPANSION JOINT FILLER MATERIAL
SHALL BE PREFORMED AND SHALL MEET THE REQUIREMENTS OF AASHTO M213.
SUBMIT ONE OF THE FOLLOWING PRODUCTS (OR APPROVED EQUAL) FOR ENGINEER'S APPROVAL AND INSTALL PER THE MANUFACTURER'S INSTALLATION REQUIREMENTS:

1. RIGHT JOINT FIBRE EXPANSION JOINT BY RIGHT POINTE, LLC., DEKALB, IL
2. FIBRE EXPANSION JOINT BY W.R. MEADOWS, INC., HAMPSHIRE, IL

SLAB JOINTS AGAINST WALLS, COLUMNS, VERTICAL SURFACES OR DISCONTINUITIES MUST HAVE A ½" EXPANSION JOINT MATERIAL BETWEEN ADJOINING SURFACES.

E. EXPANSION JOINT SEALANT MATERIAL
SHALL BE HOT APPLIED, SINGLE COMPONENT JOINT SEALANT AND CONFORM TO SECTION 212.02(A) OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS - ASTM D6990, TYPE II. THE EXPANSION JOINT SEALANT MATERIAL SHALL BE APPLIED DIRECTLY OVER THE EXPANSION JOINT FILLER MATERIAL. USE THE SAME MANUFACTURER FOR THE EXPANSION JOINT FILLER MATERIAL AND EXPANSION JOINT SEALANT MATERIAL. COLOR SHALL BE APPROVED BY THE OWNER PRIOR TO INSTALLATION.

F. VAPOR BARRIER
PROVIDE VAPOR BARRIER UNDERNEATH THE INTERIOR SLAB ON GRADE. VAPOR BARRIER SHALL BE A 6 MIL POLYETHYLENE VAPOR BARRIER RETARDER MIN. LAP AS NEEDED WITH A MINIMUM OF SIX INCHES FOR CONTINUOUS COVERAGE.

G. STRUCTURAL STEEL
1. SHALL MEET THE FOLLOWING REQUIREMENTS:
   1. W-SHAPES: ASTM A992, GRADE 50
   2. ANGLE SHAPES: ASTM A36, GRADE 36
   3. PLATES AND BARS: ASTM A36, GRADE 36
   4. ANCHOR BOLTS ASTM F1554 GRADE A36

2

H. HANDRAIL
1. GUARDRAILS AND HANDRAILS SHALL BE ASTM A53 GRADE B 1.5 STANDARD PIPE AND POST SHALL BE 1.5 EXTRA STRONG (X-STRONG). ALL HANDRAILS, GUARDRAILS AND ASSOCIATED HARDWARE SHALL BE HOT DIP GALVANIZED PER ASTM A123. HANDRAILS SHALL BE EMBEDDED A MINIMUM 6" INTO BOND BEAMS AND GROUTED WITH NON-SHRINK GROUT PER ASTM C1107. CAULK AROUND TOP OF CORE DRILLED WITH WATERPROOF CAULKING FOR EXTERIOR USE PER ASTM C920.THE MAXIMUM CENTER-TO-CENTER SPACING BETWEEN VERTICAL HANDRAIL POSTS SHALL BE 4'-0" ON CENTER. ADDITIONAL POSTS SHALL BE ADDED AS NECESSARY TO MAINTAIN MAXIMUM SPACING.

I. MASONRY
1. CONCRETE BLOCK UNITS SHALL COMPLY WITH ASTM C90, GRADE N, WITH A MINIMUM COMPRESSIVE STRENGTH OF 1000 PSI ON THE GROSS AREA AND 2150 PSI ON THE NET AREA. UNLESS NOTED OTHERWISE, MORTAR FOR EXTERIOR AND FOUNDATION MASONRY SHALL BE "TYPE N", PORTLAND CEMENT/LIME MORTAR. UNLESS NOTED OTHERWISE, ALL CONCRETE MASONRY SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH F'M OF 1800 PSI, COMPRESSIVE STRENGTH SHALL BE DETERMINED BY THE UNIT STRENGTH METHOD.

2. HORIZONTAL MASONRY WALL REINFORCEMENT SHALL BE "DUR-O-WALL" OR EQUAL, CONFORMING TO ASTM A1064, COLD DRAWN STEEL WIRE, NO. 9 SIDE RODS AND CROSS TIES, LADDER STYLE, GALVANIZED AT 16" O.C. MAXIMUM UNLESS NOTED OTHERWISE.

3. JOINTS IN WALLS SHALL BE MORTAR. GROUT FOR REINFORCING BARS AND ANCHOR BOLTS SHALL BE SAND AGGREGATE CEMENT GROUT. MASONRY CELLS TO BE GROUTED SHALL BE CLEAR OF ALL MORTAR FINS, DEBRIS, OR OTHER OBSTRUCTIONS SUCH THAT THE FLOW OF GROUT IS NOT INHIBITED.

4. ALL GROUT FOR GROUTING MASONRY BLOCK CORES SHALL BE MINIMUM 2000 PSI SAND AGGREGATE CEMENT GROUT AND SHALL MEET ASTM C476, SLUMP FOR THIS GROUT SHALL BE 8". MAXIMUM GROUT LIFT TO BE 4 FEET. ALLOW A MINIMUM OF 24 HOURS FOR MASONRY TO SET PRIOR TO GROUTING, ROD OR VIBRATE GROUT DURING PLACEMENT TO ENSURE SOLID GROUTING, ALLOW AT LEAST 15 MINUTES BETWEEN SUCCESSIVE LIFTS.

5. MASONRY CONSTRUCTION AND MATERIALS SHALL CONFORM TO ALL REQUIREMENTS OF CURRENT EDITION OF "SPECIFICATIONS FOR MASONRY STRUCTURES" (ACI-530.1/ASCE 6) PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE, EXCEPT AS MODIFIED BY THE CONTRACT DOCUMENTS. MASONRY MUST BE PLACED ON RUNNING BOND PATTERN. GROUT ALL MASONRY CELLS AND COLLAR JOINTS BELOW GRADE SOLID.

6. MASONRY MUST BE PLACED ON RUNNING BOND PATTERN.

7. VERTICAL CONTROL JOINTS FOR MASONRY EXPANSION MUST BE PROVIDED AT A MAXIMUM SPACING OF 25FT ON CENTER MAXIMUM OR LESS AS NEEDED TO MEET MINIMUM ASPECT RATIO REQUIREMENTS. THE SPACING OF JOINTS MUST BE DECREASED AS NEEDED SUCH THAT THE WALLS LENGTH-TO-HEIGHT RATIO IS CONSTRUCTED BETWEEN A 11½ TO 1 RATIO.

J. WOOD
1. PRE-ENGINEERED ROOF TRUSSES SHALL BE SUBMITTED TO EOR FOR APPROVAL PRIOR TO CONSTRUCTION. SUBMITTAL SHALL BE SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE COMMONWEALTH OF VIRGINIA. DELEGATED DESIGN SHALL INCLUDE SIZING OF OF ALL TRUSS MEMBERS, TRUSS BRACING AND CONNECTIONS OF TRUSS MEMBERS. DEAD LOADS, SNOW LOADS, WIND LOADS AND EARTHQUAKE LOADS SHALL CONFORM TO THE REQUIREMENTS SPECIFIED WITHIN THE STRUCTURAL GENERAL NOTES LOADING CRITERIA. DEAD LOAD SHALL BE DISTRIBUTED WITHIN 6 PSF FOR TOP CHORD AND 16 PSF TO BOTTOM CHORD.

2. WOOD SHALL BE NO. 2 SOUTHERN PINE, WITH MOISTURE CONTENT (S-DRY) NOT TO EXCEED 19% AND SHALL BE FREE OF SPLITS. SHALL BE VISUALLY GRADED UNDER SPIB GRADING AGENCY FOR THE FOLLOWING VALUES (OR BETTER ALTERNATIVE):
   - Fb: 1,100 PSI
   - Ft: 675 PSI
   - Fv: 175 PSI
   - $Fc_{\perp}$: 565 PSI
   - Fc: 1,450 PSI
   - Emin: 510 KSI
   - SPECIFIC GRAVITY: 0.55

3. WOOD FOR ALL MEMBERS SHALL HAVE A SURFACE TEXTURE OF S2E OR S4S.

4. ALL WOOD IN CONTACT WITH MASONRY SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA STANDARDS AND SHALL USE CATEGORY UC3B.

5. STEEL WOOD FASTENERS SHALL BE HOT-DIP GALVANIZED PER ASTM A653, CLASS G185 OR HOT-DIP GALVANIZED PER FASTENER MANUFACTURER.

6. ALL THROUGH BOLTED CONNECTIONS IN CONTACT WITH WOOD SHALL HAVE WASHERS AT BOLT HEAD AND NUT. REFER TO STEEL SECTION FOR MATERIALS.

7. ROOF WOOD STRUCTURAL OR WOOD SHEATHING PANEL SHALL BE PLYWOOD OR ORIENTED STRAND BOARD. 15/32" THICK MINIMUM, APA RATED WITH A 24/16 SPAN RATING.

8. WOOD STRUCTURAL PANEL SHALL BE NAILED PER TYPICAL DETAIL WITH 10D NAILS AT 6" O.C. AT SUPPORT PANEL EDGES (EDGE NAILING) AND AT 12" O.C. FIELD NAILING. ROOF BLOCKING SHALL BE NAILED ACCORDINGLY TO FIELD OR EDGE NAILING UNLESS NOTED OTHERWISE.

I. GEOTEXTILE DRAINAGE FABRIC
SHALL BE A NONWOVEN AND CLOG RESISTANT POLYPROPYLENE MATERIAL, SUITABLE FOR SUBSURFACE APPLICATION, AND THERMALLY AND BIOLOGICALLY STABLE GEOTEXTILE DRAINAGE FABRIC SHALL CONFORM TO SECTION 245.03(C) OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS.

IN ADDITION, THE GEOTEXTILE SHALL COMPLY WITH THE REQUIREMENTS OF AASHTO M288 TABLE 1-GEOTEXTILE STRENGTH PROPERTY REQUIREMENTS, CLASS 3, FOR GRAB STRENGTH.

J. DRAIN PIPE
SHALL BE CORRUGATED, PERFORATED POLYETHYLENE PIPE AND CONFORM TO SECTION 232.02(I) OF THE VDOT ROAD AND BRIDGE SPECIFICATIONS.

K. WEEP HOLES
SHALL CONSIST OF NON-PERFORATED PVC DRAIN PIPES. INSTALL MESH SCREEN OVER WEEP HOLES ALONG THE RETAINING WALL FILL FACE.

L. ELECTRICAL GROUNDING OF STRUCTURAL STEEL
EXTERIOR STRUCTURAL STEEL ELEMENTS SUCH AS HANDRAILS OR OTHER ELEMENTS THAT MAY BECOME IN CONTACT WITH PEDESTRIANS SHALL BE GROUNDED PER THE NATIONAL ELECTRICAL CODE (NEC).

SUBMITTALS
CONTRACTOR SHALL PROVIDE THE FOLLOWING PRIOR TO FABRICATION AND INSTALLATION FOR THE ENGINEER'S APPROVAL:
A. PRODUCT DATA SHEETS FOR EACH MATERIAL TO BE INSTALLED.
B. CONCRETE MIX DESIGN FOR CAST-IN-PLACE CONCRETE FACING AND CAST-IN-PLACE RETAINING WALLS.
C. MATERIAL AND MILL CERTIFICATIONS.
D. STEEL REINFORCEMENT SHOP DRAWINGS.

ABBREVIATIONS AND NOTATIONS

ACI	AMERICAN CONCRETE INSTITUTE
APPROX	APPROXIMATELY
APA	AMERICAN PLYWOOD ASSOCIATION
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AWC	AMERICAN WOOD COUNCIL
BM	BEAM
BRG	BEARING
CLR	CLEAR CONCRETE COVER
CONC	CONCRETE
CONT	CONTINUOUS
DIA OR ∅	DIAMETER
EF	EACH FACE
EL OR ELEV	ELEVATION
EN	EDGE NAILING
EQ	EQUAL
EW	EACH WAY
GC	GENERAL CONTRACTOR
EXP	EXPANSION
EXT	EXISTING
FN	FIELD NAILING
GEN	GENERAL
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHOR
IBC	INTERNATIONAL BUILDING CODE
JST	JOIST
LL	LIVE LOAD
LLV	LONG LEG VERTICAL
MAS	MASONRY
MAX	MAXIMUM
MIN	MINIMUM
NDS	NATIONAL DESIGN SPECIFICATION
NTS	NOT TO SCALE
OC	ON-CENTER
OSB	ORIENTED STRAND BOARD
PCF	POUNDS PER CUBIC FOOT
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT
PT	PRESSURE TREATED
REF	REFERENCE OR REFER TO
REINF	REINFORCEMENT
SOG	SLAB ON GRADE
STL	STEEL
TOF EL	TOP OF FOOTING ELEVATION
TOS	TOP OF STEEL
TOR	TOP OF RIDGE
TOW	TOP OF WALL
T&B	TOP AND BOTTOM
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VCC	VIRGINIA CONSTRUCTION CODE
VERT	VERTICAL
VUSBC	VIRGINIA UNIFORM STATEWIDE BUILDING CODE

SYMBOLS AND LEGEND

CJ — SLAB ON GRADE CONTROL JOINT

TS — THICKENED SLAB

S — S — STEP FOUNDATION

CFX.X — CONTINUOUS CONCRETE FOOTING

ROOF RIDGE

PFWT — PREFABRICATED WOOD TRUSSES

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07/15/2026	ADDENDUM 2

DATE 07/15/26
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DESIGNED BY VJT
CHECKED BY JJP
SCALE N/A

TIMMONS GROUP

MILLER PARK POOL
LYNCHBURG, VA
STRUCTURAL NOTES

JOB NO. 73263
SHEET NO. S1.00

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SPECIAL INSPECTIONS AND TESTING

SPECIAL INSPECTIONS SHALL BE PROVIDED IN ACCORDANCE WITH CHAPTER 17 OF THE 2021 INTERNATIONAL BUILDING CODE. AN APPROVED SPECIAL INSPECTION AGENCY SHALL BE PROVIDED BY THE OWNER PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE ALL INSPECTION PROCEDURES WITH THE OWNER AND THE OWNER'S AGENT. A FINAL REPORT OF INSPECTIONS DOCUMENTING COMPLETION OF ALL WORK SHALL BE SUBMITTED TO THE CODE OFFICIAL.

IBC TABLE 1705.6
REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BARING CAPACITY.	–	–
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	–	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	–	X
4. DURING FILL PLACEMENT, VERIFY USE OF PROPER MATERIALS AND PROCEDURES IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT. VERIFY DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	–
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	X	X

IBC TABLE 1705.3
REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCE STANDARD
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	–	X	ACI 318: 23.11.1.2 (B)
2. INSPECT ANCHORS CAST IN CONCRETE.	–	X	ACI 318: 17.8.2
3. VERIFY USE OF REQUIRED DESIGN MIX.	–	X	ACI 318: Ch. 19, 26.4.3, 26.4.4
4. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	–	ASTM C31 ASTM C172 ACI 318:26.5, 26.12
5. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	–	ACI 318: 26.5
6. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	–	X	ACI 318: 26.5.3-26.5.5.
7. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	–	X	ACI 318: 26.11.2
8. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED, SHORING AND RESHORING.	–	X	ACI 318: 23.11.1.2 (B)

IBC/AISC TABLE N5.6-1
INSPECTION TASKS PRIOR TO BOLTING

INSPECTION TASKS PRIOR TO BOLTING	QC	QA
1. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS.	O	P
2. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS.	O	O
3. PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRAD, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE).	O	O
4. PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL.	O	O
5. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS.	O	O
6. PRE-INSTALLED VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED.	P	O
7. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS.	O	O
O = OBSERVE ON A RANDOM BASIS, P = PERFORM FOR EACH BOLTED CONNECTION		

IBC/AISC N5.6-2
INSPECTION TASKS DURING BOLTING

INSPECTION TASKS DURING BOLTING	QC	QA
1. FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED).	O	O
2. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION.	O	O
3. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING.	O	O
4. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES.	O	O
O = OBSERVE ON A RANDOM BASIS, P = PERFORM FOR EACH BOLTED CONNECTION		

IBC/AISC TABLE N5.6-3
INSPECTION TASKS AFTER BOLTING

INSPECTION TASKS DURING BOLTING	QC	QA
1. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS.	P	P
O = OBSERVE ON A RANDOM BASIS, P = PERFORM FOR EACH BOLTED CONNECTION		

IBC/AISC TABLE N5.4-1
INSPECTION TASKS PRIOR TO WELDING

INSPECTION TASKS PRIOR TO WELDING	QC	QA
1. WELDING PROCEDURE SPECIFICATIONS (WPSS) AVAILABLE.	P	P
2. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE.	P	P
3. MATERIAL IDENTIFICATION (TYPE/GRADE).	O	O
4. WELDER IDENTIFICATION SYSTEM. - FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED - DIE STAMPING OF MEMBERS SUBJECTED TO FATIGUE SHALL BE PROHIBITED UNLESS APPROVED BY THE ENGINEER OF RECORD	O	O
5. FIT UP GROOVE WELDS (INCLUDING JOINT GEOMETRY) - JOINT PREPARATION - DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) - CLEANLINESS (CONDITION OF STEEL SURFACES) - TACKING (TACK WELD QUALITY AND LOCATION) - BACKING TYPE AND FIT (IF APPLICABLE)	O	O
6. CONFIGURATION AND FINISH OF ACCESS HOLES.	O	O
7. FIT-UP OF FILLET WELDS - DIMENSIONS (ALIGNMENT, GAPS AT ROOT) - CLEANLINESS (CONDITION OF STEEL SURFACES) - TACKING (TACK WELD QUALITY AND LOCATION)	O	O
8. CHECK WELDING EQUIPMENT.	O	-
O = OBSERVE ON A RANDOM BASIS, P = PERFORM FOR EACH BOLTED CONNECTION		

IBC/AISC TABLE N5.4-2
INSPECTION TASKS DURING WELDING

INSPECTION TASKS DURING WELDING	QC	QA
1. CONTROL AND HANDLING OF WELDING CONSUMABLES - PACKAGING - EXPOSURE CONTROL	O	O
2. NO WELDING OVER CRACKED TACK WELDS.	O	O
3. ENVIRONMENTAL CONDITIONS - WIND SPEED WITHIN LIMITS - PRECIPITATION AND TEMPERATURE	O	O
4. WPS FOLLOWED - SETTINGS ON WELDING EQUIPMENT - TRAVEL SPEED - SELECTED WELDING MATERIALS - SHIELDING GAS TYPE/FLOW RATE - PREHEAT APPLIED - INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) - PROPER POSITION (F, V, H, OH)	O	O
5. WELDING TECHNIQUES - INTERPASS AND FINAL CLEANING - EACH PASS WITHIN PROFILE LIMIATIONS - EACH PASS MEETS QUALITY REQUIREMENTS	O	O
6. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS.	P	P
O = OBSERVE ON A RANDOM BASIS, P = PERFORM FOR EACH BOLTED CONNECTION		

TABLE N5.4-3
INSPECTION TASKS AFTER WELDING

INSPECTION TASKS AFTER WELDING	QC	QA
1. WELDS CLEANED.	O	O
2. SIZE, LENGTH, AND LOCATION OF WELDS.	P	P
3. WELDS MEET VISUAL ACCEPTANCE CRITERIA - CRACK PROHIBITION - WELD/BASE-METAL FUSION - CRATER CROSS SECTION - WELD PROFILES - WELD SIZE - UNDERCUT - POROSITY	P	P
4. ARC STRIKES.	P	P
5. K-AREA. [a]	P	P
6. WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES. [b]	P	P
7. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED).	P	P
8. REPAIR ACTIVITIES.	P	P
9. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER. [C]	P	P
10. NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.	O	O
[a] WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES, OR STIFFNERS HAS BE PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 IN. (75 mm) OF THE WELD. [b] AFTER ROLLED HEAVY SHAPES (SEE SECTION A3.1d) AND BUILT-UP HEAVY SHAPES (SEE SECTION A3.1e) ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS. [c] DIE STAMPING OF MEMBERS SUBJECTED TO FATIGUE SHALL BE PROHIBITED UNLESS APPROVED BY THE ENGINEER OF RECORD.		
O = OBSERVE ON A RANDOM BASIS, P = PERFORM FOR EACH BOLTED CONNECTION		

MASONRY MINIMUM SPECIAL INSPECTION

INSPECTION TASK	FREQUENCY		REFERENCE FOR CRITERIA	
	CONTINUOUS	PERIODIC	TMS 402/ACI 530/ ASCE 5	TMS 602/ACI 530.1/ASCE 6
1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS		X		ART. 1.5
2. VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:				
A. PROPORTIONS OF SITE-MIXED MORTAR, GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS		X		ART. 2.1, 2.6 A, 2.6 B, 2.6 C, 2.4 G.1.B
B. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES		X	SEC. 1.16	ART. 2.4, 3.4
C. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS		X		ART. 3.3 B
D. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES	X		SEC. 1.16	ART. 3.2 E, 3.4, 3.6 A
E. GROUT SPACE PRIOR TO GROUTING	X			ART. 3.2 D, 3.2 F
F. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	X			ART. 3.5, 3.6 C
G. SIZE AND LOCATION OF STRUCTURAL ELEMENTS		X		ART. 3.3 F
H. TYPE, SIZE, AND LOCATION OF ANCHORS INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION	X		SEC. 1.16.4.3, 1.17.1	
I. WELDING OF REINFORCEMENT	X		SEC. 2.1.7.7.2, 3.3.3.4 (C), 8.3.3.4(B)	
J. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40˚F (4.4˚C)) OR HOT WEATHER (TEMPERATURE ABOVE 90˚F (32.2 ˚C))		X		ART. 1.8 C, 1.8 D
K. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	X			ART. 3.6B
L. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	X			ART. 3.3 B.8
M. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	X			ART. 2.1 C.1
3. OBSERVE PREPARATION OF GROUT SPECIMEN, MORTAR SPECIMENS, AND OR PRISMS	X			ART. 1.4 B.2.A.3, 1.4 B.2.B.3, 1.4 B.2.C.3, 1.4 B.3, 1.4 B.4

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MILLER PARK POOL
LYNCHBURG, VA

GENERAL NOTES - SPECIAL INSPECTIONS AND TESTING

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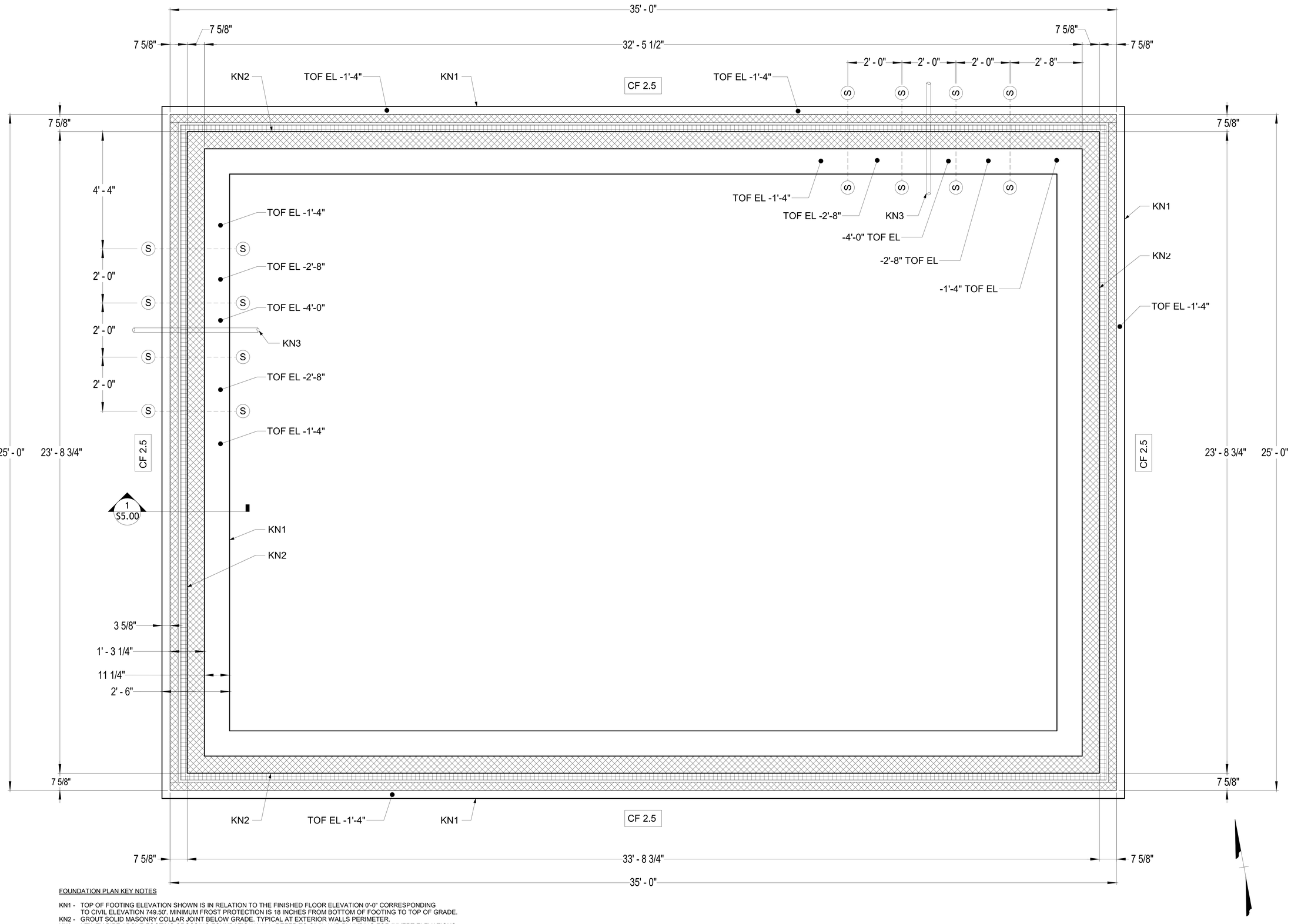

FOUNDATION PLAN KEY NOTES

KN1 - TOP OF FOOTING ELEVATION SHOWN IS IN RELATION TO THE FINISHED FLOOR ELEVATION 0'-0" CORRESPONDING TO CIVIL ELEVATION 749.50'. MINIMUM FROST PROTECTION IS 18 INCHES FROM BOTTOM OF FOOTING TO TOP OF GRADE.
KN2 - GROUT SOLID MASONRY COLLAR JOINT BELOW GRADE. TYPICAL AT EXTERIOR WALLS PERIMETER.
KN3 - UTILITY PIPE ABOVE FOOTING CROSSING FOUNDATION WALL. REFER TO CIVIL AND PLUMBING FOR INVERT ELEVATIONS. CORE DRILL THROUGH WALL AND INSTALL PIPE SLEEVE SUCH THAT THERE IS A 1" GAP ABOVE THE PIPE. FILL GAP WITH COMPRESSIBLE INSULATING MATERIAL.

1 / S2.00 FOUNDATION PLAN VIEW
3/4" = 1'-0"

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MILLER PARK POOL
LYNCHBURG, VA
BUILDING FOUNDATION PLAN

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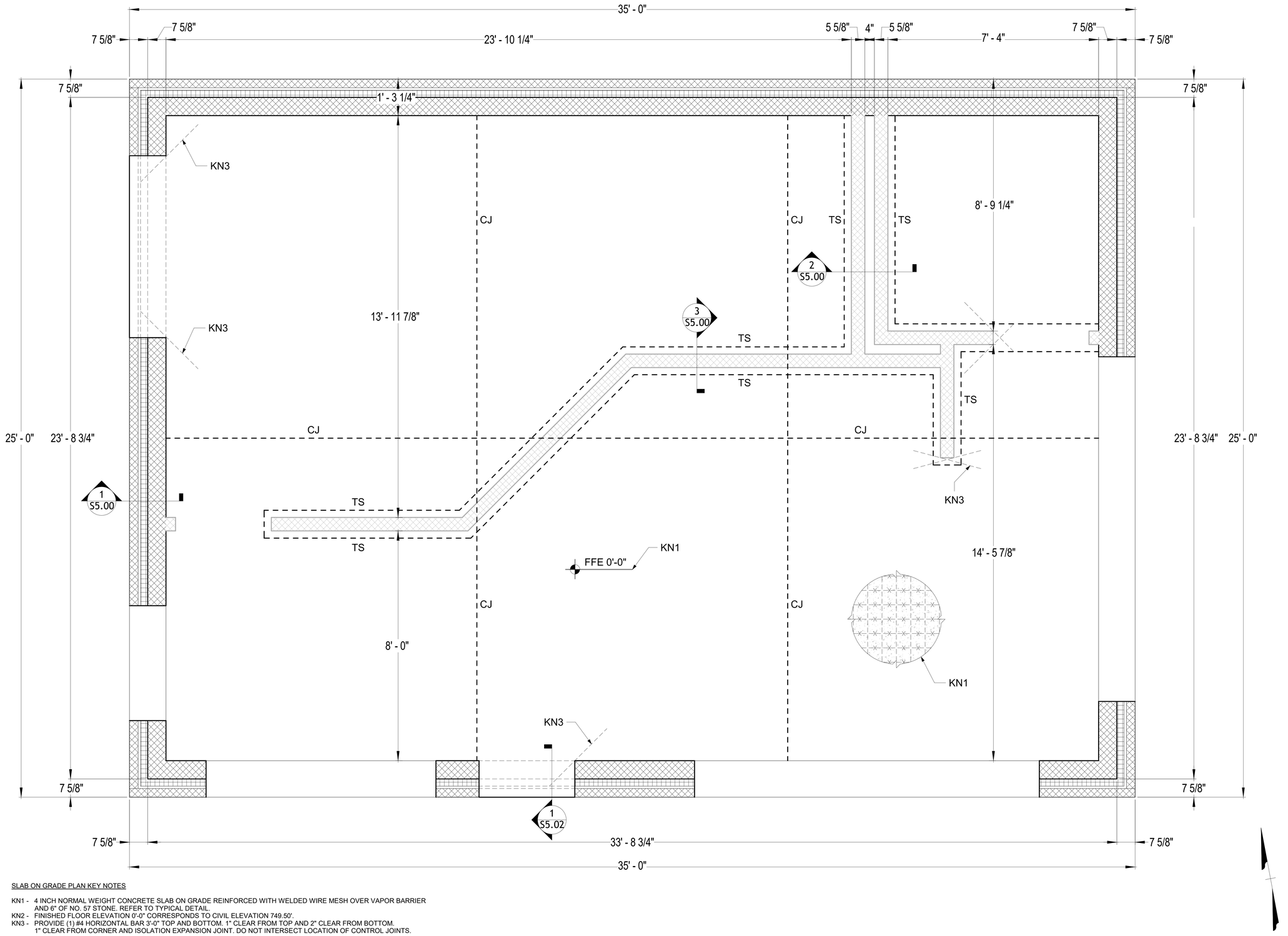

SLAB ON GRADE PLAN KEY NOTES

KN1 - 4 INCH NORMAL WEIGHT CONCRETE SLAB ON GRADE REINFORCED WITH WELDED WIRE MESH OVER VAPOR BARRIER AND 6" OF NO. 57 STONE. REFER TO TYPICAL DETAIL.
KN2 - FINISHED FLOOR ELEVATION 0'-0" CORRESPONDS TO CIVIL ELEVATION 749.50'.
KN3 - PROVIDE (1) #4 HORIZONTAL BAR 3'-0" TOP AND BOTTOM. 1" CLEAR FROM TOP AND 2" CLEAR FROM BOTTOM. 1" CLEAR FROM CORNER AND ISOLATION EXPANSION JOINT. DO NOT INTERSECT LOCATION OF CONTROL JOINTS.

1 / S3.00 SLAB PLAN VIEW
3/4" = 1'-0"

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BUILDING SLAB PLAN

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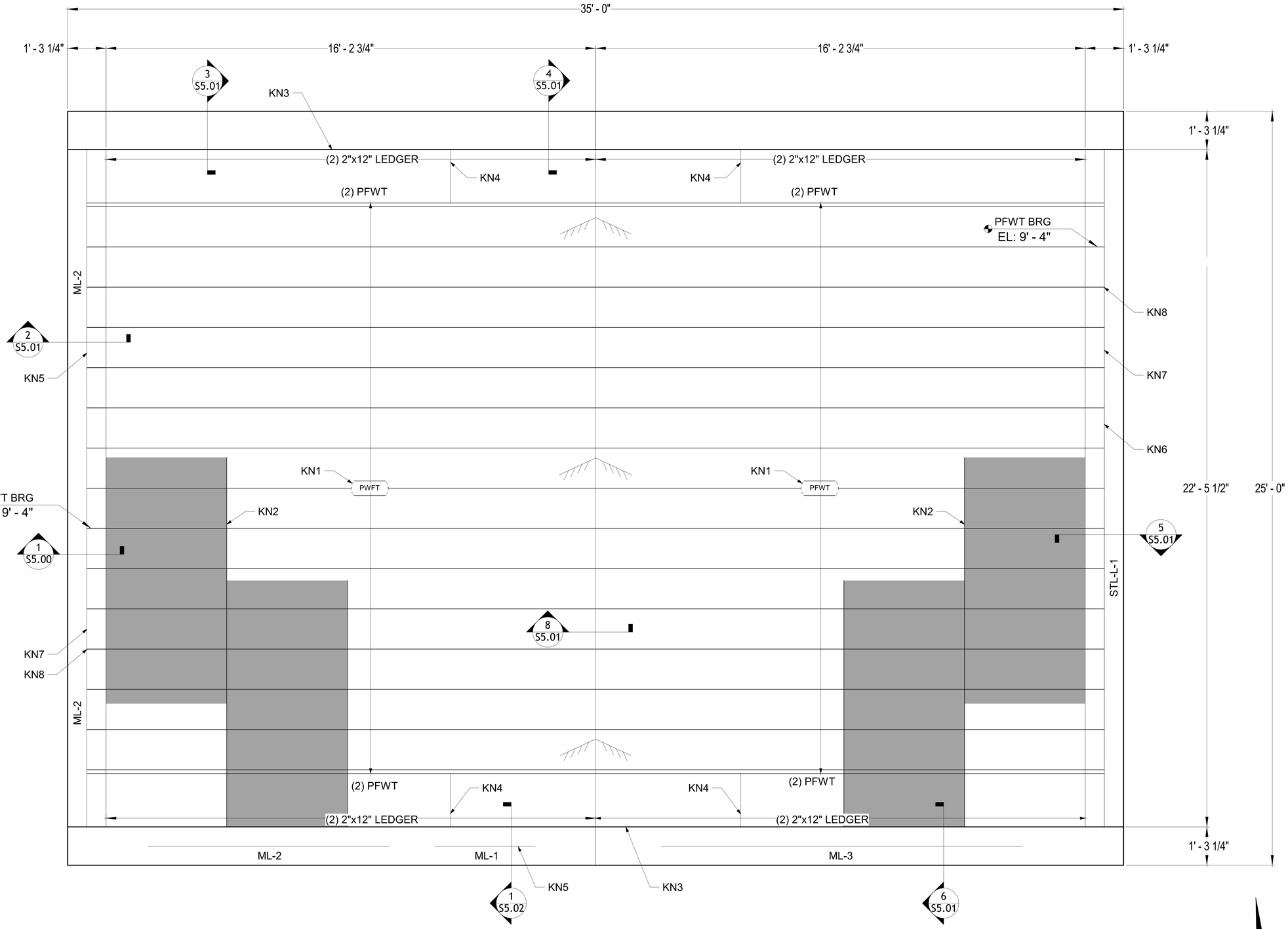

ROOF PLAN KEY NOTES

KN1 - PREFABRICATED WOOD TRUSSES AT 16 INCHES ON CENTER.
KN2 - 15/32" APA RATED OSB PLYWOOD SHEATHING, REFERENCE GENERAL NOTES
KN3 - PRESSURE TREATED LEDGER ATTACHED TO MASONRY WALL REFERENCE SECTION DETAIL
KN4 - 2X BLOCKING CENTER FROM WALL LEDGER TO TOP AND BOTTOM CHORD OF PREFABRICATED WOOD TRUSS REFER TO SECTION DETAILS
KN5 - MASONRY LINTEL REFERENCE SECTIONS AND TYPICAL DETAIL
KN6 - STEEL LINTEL REFERENCE SECTIONS AND TYPICAL DETAIL
KN7 - BLOCK ALL WOOD TRUSSES AT END BEARING WITH 2X12 BLOCKING TYPICAL. REFERENCE SECTIONS.
KN8 - WOOD DOUBLE TOP PLATE BEARING ELEVATION IS 9'-4" AND TRUSS BEARING IS 9'-7"

1 S4.00 ROOF PLAN VIEW
3/4" = 1'-0"

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MILLER PARK POOL
LYNCHBURG, VA
BUILDING ROOF PLAN

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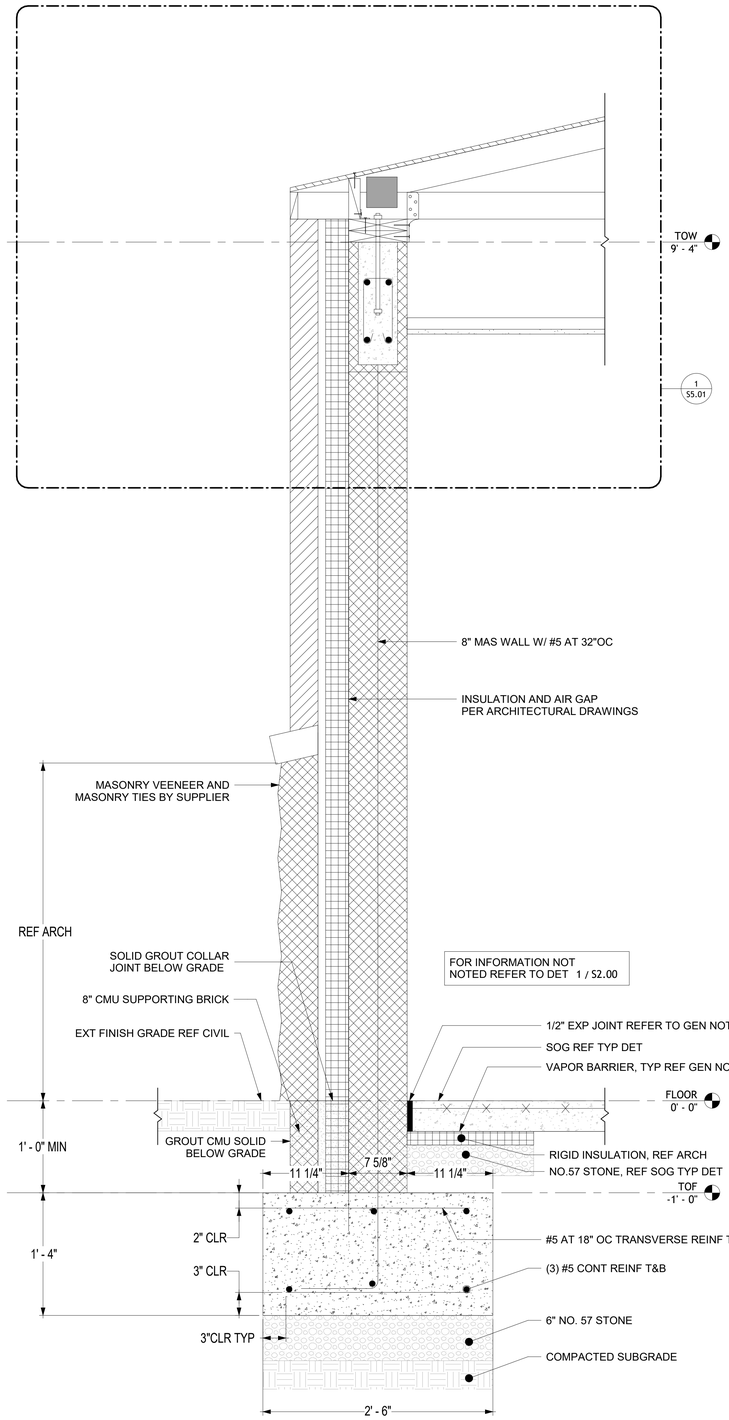
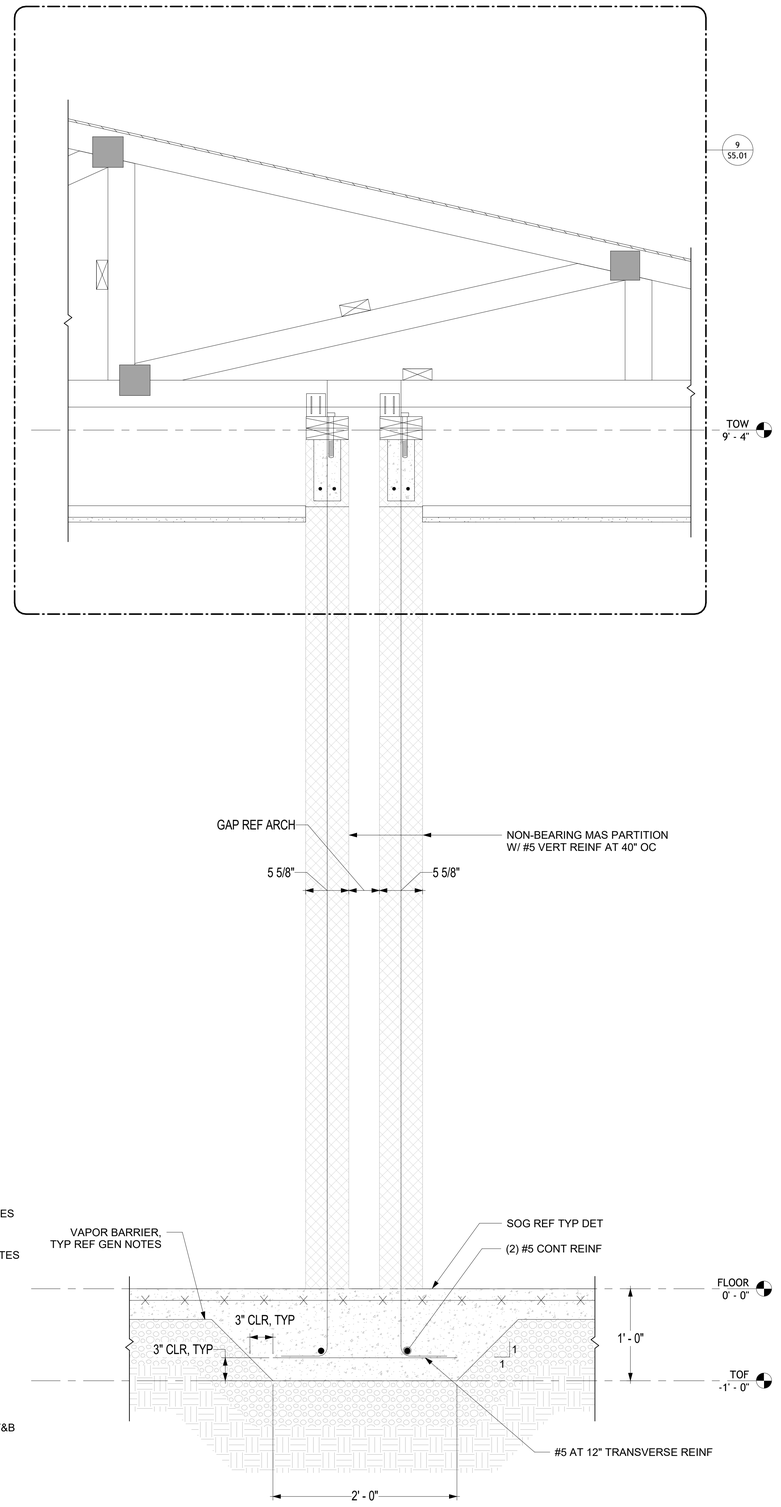


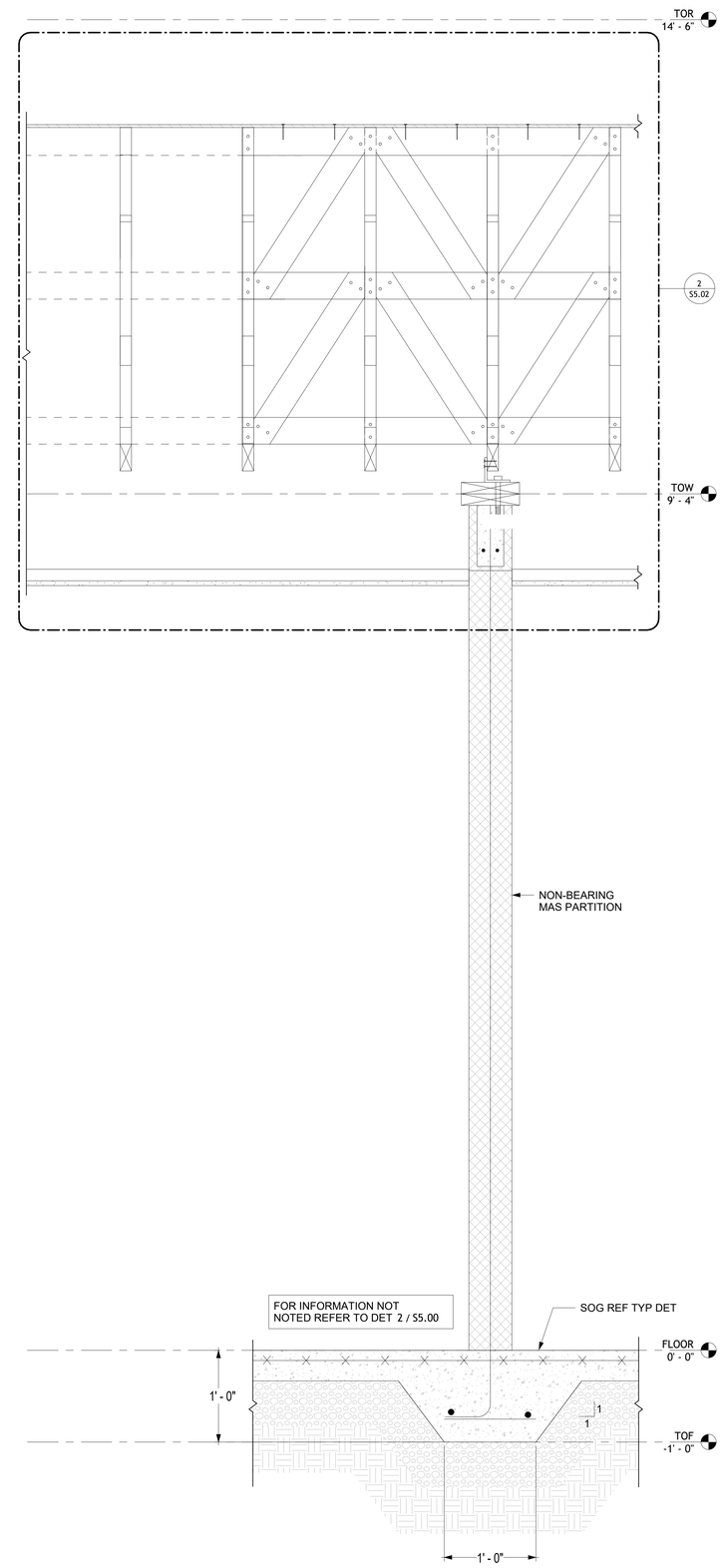
1 S2.00 S5.00 TYPICAL WALL SECTION

1 1/2" = 1'-0"



2 S3.00 S5.00 DOUBLE NON-BEARING WALL SECTION

1 1/2" = 1'-0"



3 S3.00 S5.00 NON-BEARING WALL SECTION

1 1/2" = 1'-0"

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VICTOR J. TORRES
VICTOR JOSEPH TORRES
Lic. No. 0402027
PROFESSIONAL ENGINEER
Digitally signed by Victor Torres
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TIMMONS GROUP

MILLER PARK POOL
LYNCHBURG, VA
BUILDING STRUCTURAL DETAILS

JOB NO. 73263
SHEET NO. S5.00

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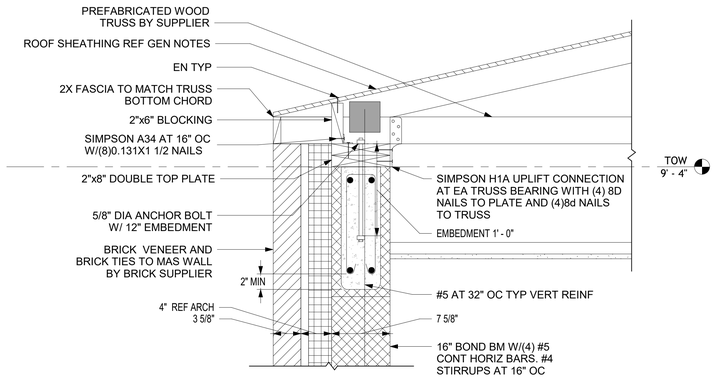
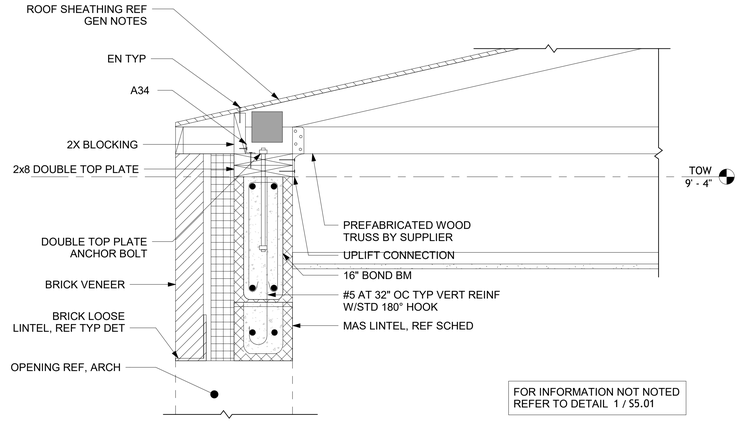


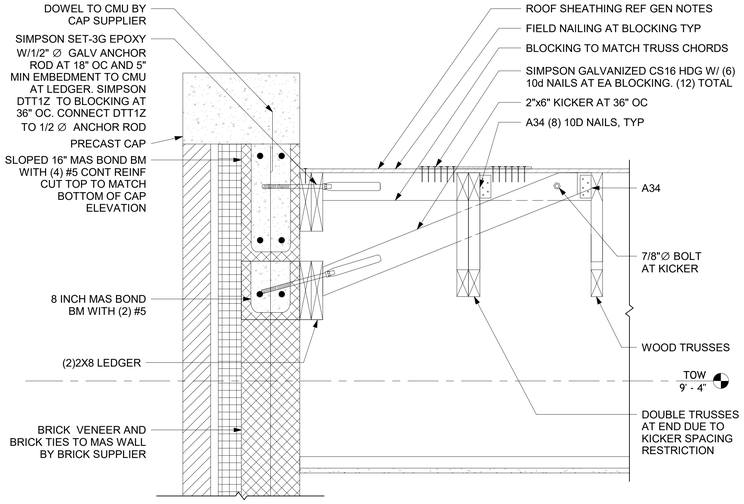
1 S5.00 S5.01 WOOD TRUSS BEARING SECTION

1 1/2" = 1'-0"



2 S4.00 S5.01 WOOD TRUSS BEARING AT MASONRY LINTEL SECTION

1 1/2" = 1'-0"



3 S4.00 S5.01 MASONRY END WALL BRACING SECTION AT PARALLEL WOOD TRUSSES

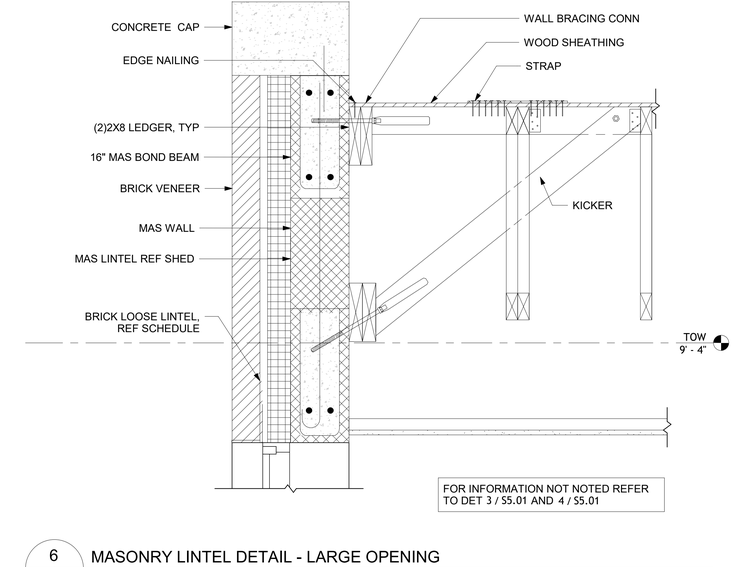
1 1/2" = 1'-0"

4 S4.00 S5.01 MASONRY END WALL BRACING SECTION AT PARALLEL TRUSSES - 2

1 1/2" = 1'-0"

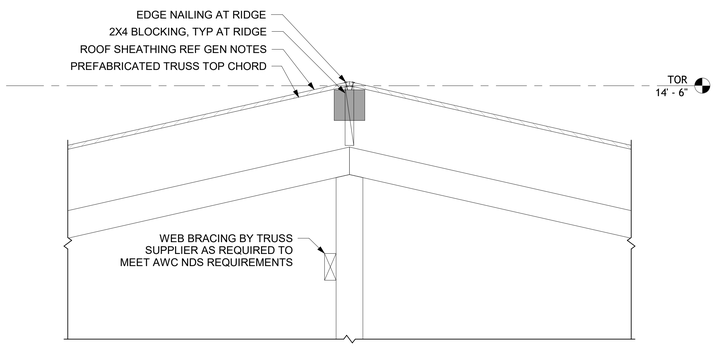
5 S4.00 S5.01 STEEL LINTEL DETAIL AT WOOD TRUSS BEARING

1 1/2" = 1'-0"



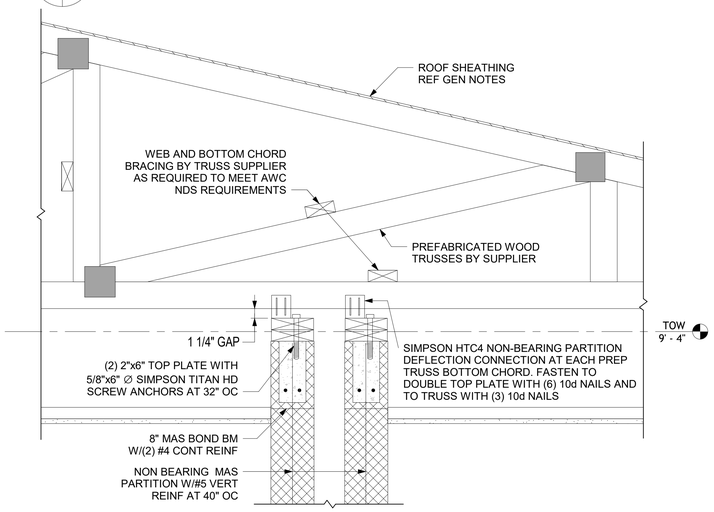
6 S4.00 S5.01 MASONRY LINTEL DETAIL - LARGE OPENING

1 1/2" = 1'-0"



8 S4.00 S5.01 ROOF SHEATHING AT ROOF RIDGE DETAIL

1 1/2" = 1'-0"



9 S5.00 S5.01 DOUBLE NON-BEARING WALL SECTION DETAIL - CALLOUT

1 1/2" = 1'-0"

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PROFESSIONAL ENGINEER
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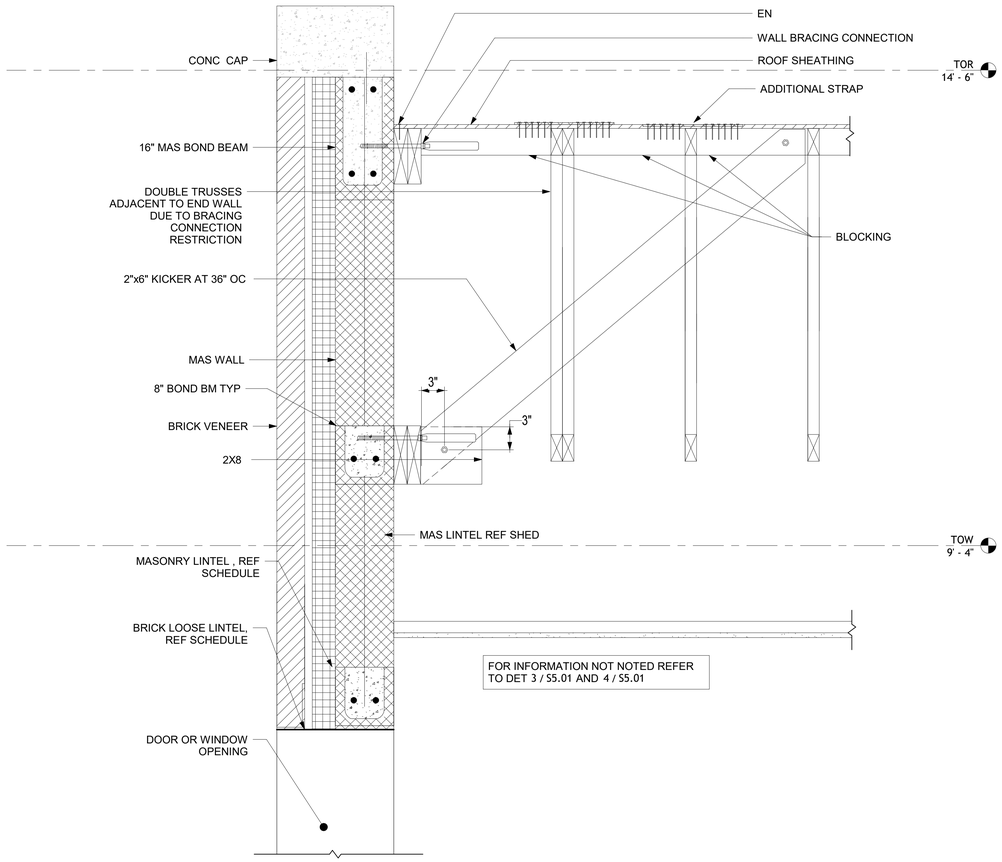
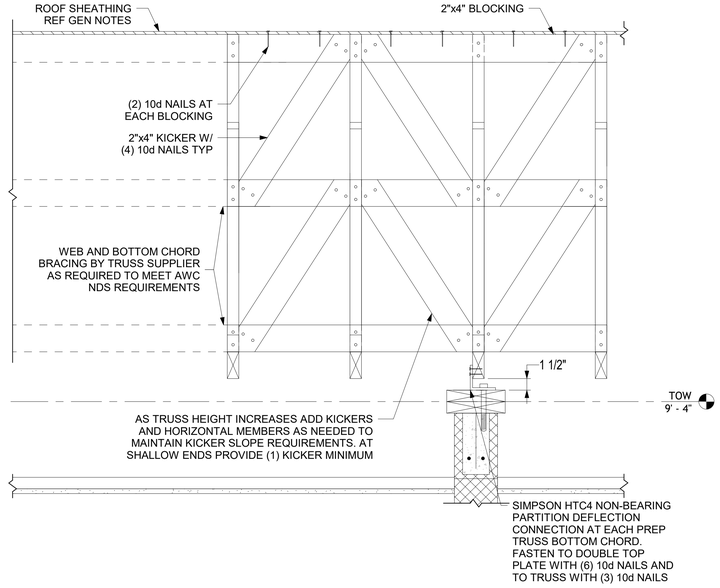


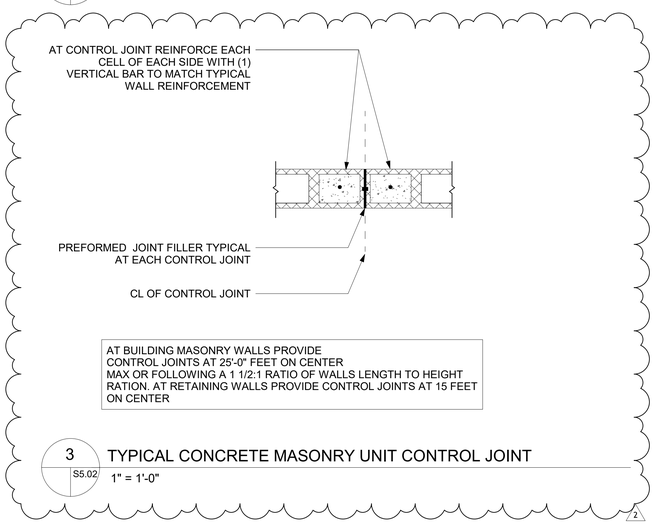


1 S3.00 S5.02 EXTERIOR LINTEL CONDITION AND WALL CONNECTION DETAIL

1 1/2" = 1'-0"

2 S5.00 S5.02 NON-BEARING WALL SECTION DETAIL - CALLOUT

1 1/2" = 1'-0"



3 S5.02 TYPICAL CONCRETE MASONRY UNIT CONTROL JOINT

1" = 1'-0"

2

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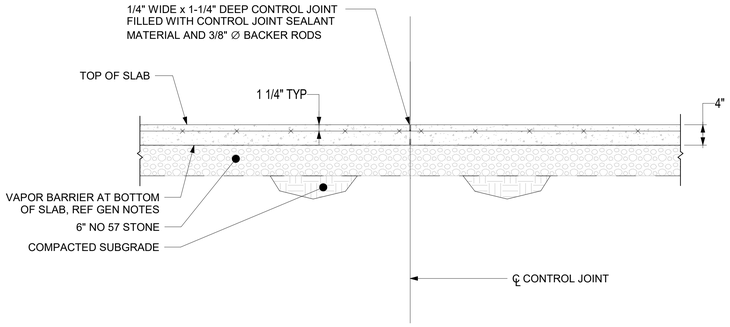


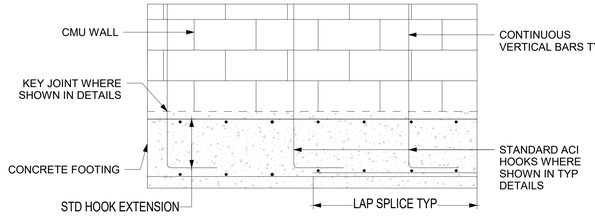
NOTE(S):

1. GREASE ONE 9" LONG SIDE OF EACH SMOOTH DOWEL AT CONTROL JOINTS.
2. MAXIMUM CONTROL JOINT SPACING BETWEEN EXPANSION JOINTS SHALL BE 20 FT O.C.
3. PLACE SMOOTH DOWELS WITHIN 1 FT OF THE EDGE OF THE SLAB-ON-GRADE AND AT 3 FT O.C. ALONG THE SLAB-ON-GRADE. PROVIDE MINIMUM TWO BARS IN SLAB.

1 SLAB-ON-GRADE - CONTROL JOINT

S5.03

1" = 1'-0"



EXAMPLE ELEVATION OF EXPECTED CONTINUOUS REINFORCEMENT CONDITIONS AT CONCRETE FOOTINGS

REINFORCEMENT DEVELOPMENT SCHEDULE			
CONCRETE STRENGTH	BAR SIZE	LAP SPLICE	STANDARD HOOK
4500 PSI	#5	30"	12"

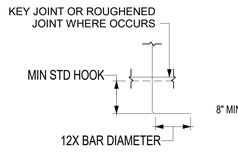
NOTE(S):

1. SCHEDULE IS FOR CAST IN PLACE BARS WITHOUT EPOXY COATING.
2. WHERE STANDARD HOOKS HAVE 2 1/2" COVER OR MORE, THE STANDARD HOOK DIMENSION CAN BE REDUCED BY 0.7 AS NEEDED.
3. ALL HOOKS AND SPLICES SHALL CONFORM TO THE GENERAL GUIDANCE PROVIDED IN THIS DETAIL.
4. ALL BARS MUST BE CONTINUOUS AND CONFORM TO THE GENERAL GUIDANCE PROVIDED IN THIS DETAIL.

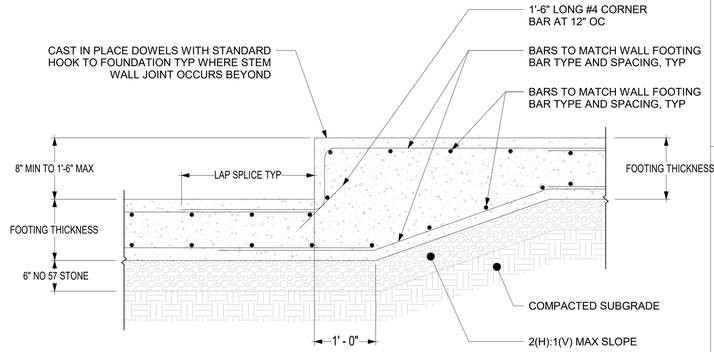
2 TYPICAL REINFORCEMENT DEVELOPMENT SCHEDULE

S5.03

3/4" = 1'-0"



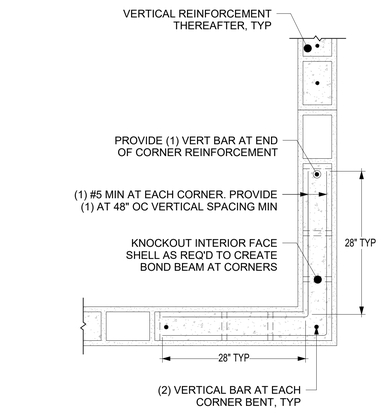
ACI STANDARD HOOK GEOMETRY



3 TYPICAL FOOTING STEP DETAIL

S5.03

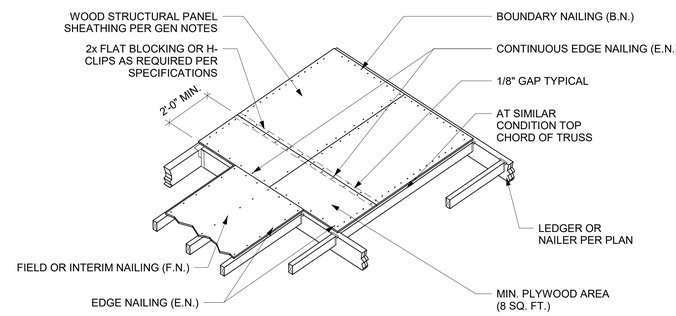
1" = 1'-0"



4 TYPICAL CONCRETE MASONRY UNIT CORNER DETAIL

S5.03

1" = 1'-0"

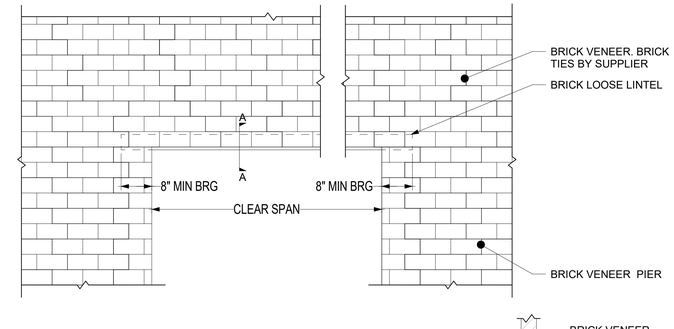


TYPICAL ROOF SHEATHING NAILING:
FIELD NAILING AT 12" OC.
EDGE NAILING AND BOUNDARY NAILING AT 6" OC.
DIAPHRAGM IS UNBLOCKED AND SHEATHING TO BE INSTALLED IN RUNNING BOND PATTERN.

5 DIAPHRAGM NAILING

S5.03

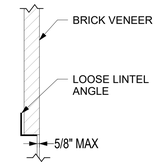
1" = 1'-0"



NOTE(S):

1. ALL LOOSE LINTELS SHALL NOT EXCEED THE LISTED CLEAR SPAN AND HAVE A MINIMUM CONTINUOUS BEARING END OF 8 INCHES.
2. LOOSE LINTELS SHALL BE HOT DIPPED GALVANIZED UNLESS OTHERWISE NOTED PER ASTM A153.

MAX CLEAR SPAN	LOOSE LINTEL ANGLE
3'-3"	L4x4x5/16
8'-0"	L6x4x5/16 LLV
12'-0"	L8x4x1/2 LLV

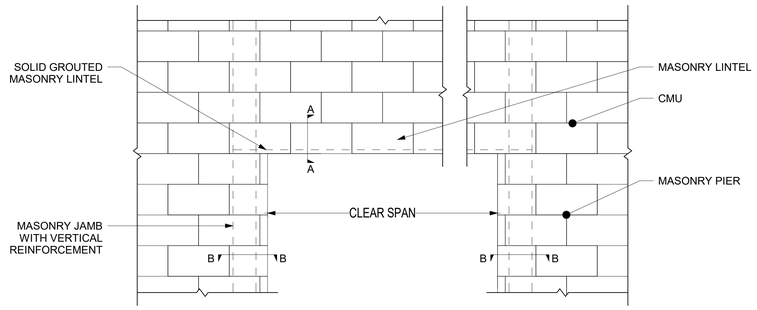


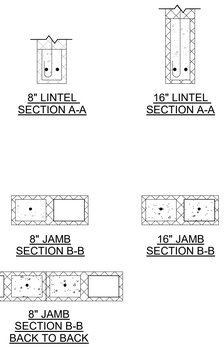
SECTION A-A

6 TYPICAL BRICK VENEER LOOSE LINTEL DETAIL

S5.03

3/4" = 1'-0"



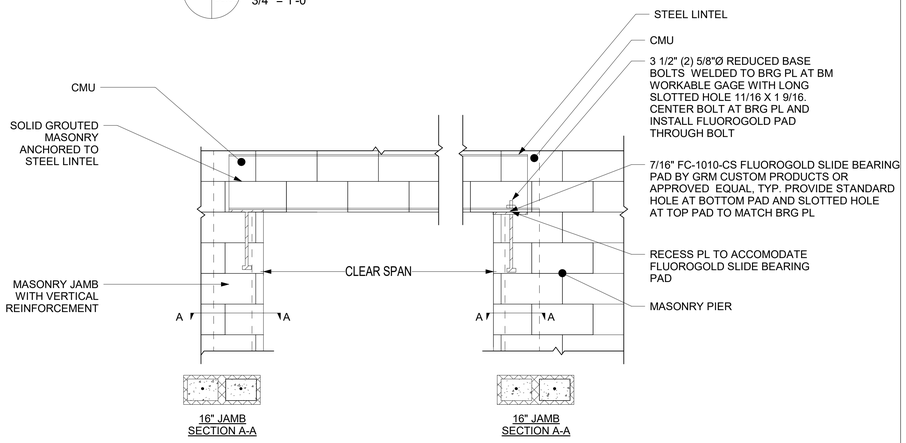


MASONRY LINTEL	MAX SPAN	LINTEL DEPTH	LINTEL REINFORCEMENT	MASONRY JAMB
ML-1	3'-4"	8"	(2) #5	8"x8" W/ (1) #5 VERT
ML-2	8'-0"	8"	(2) #5	8"x16" W/ (2) #5 VERT
ML-3	12'-0"	16"	(2) #5	8"x16" W/ (2) #5 VERT

7 TYPICAL MASONRY LINTEL DETAIL

S5.03

3/4" = 1'-0"



STEEL LINTEL	MAX SPAN	LINTEL SIZE / WORKABLE GAGE	SLIDE BEARING PAD	MASONRY JAMB	BEARING PLATE
STL-1	12'-0"	W14X22	7/16" X 7 X 7	8"x16" W/ (2) #5 VERT	1/2 X 7 X 7 W/(1)X15" HSA

8 TYPICAL STEEL LINTEL DETAIL

S5.03

3/4" = 1'-0"

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MILLER PARK POOL
LYNCHBURG, VA
BUILDING STRUCTURAL DETAILS

JOB NO. 73263
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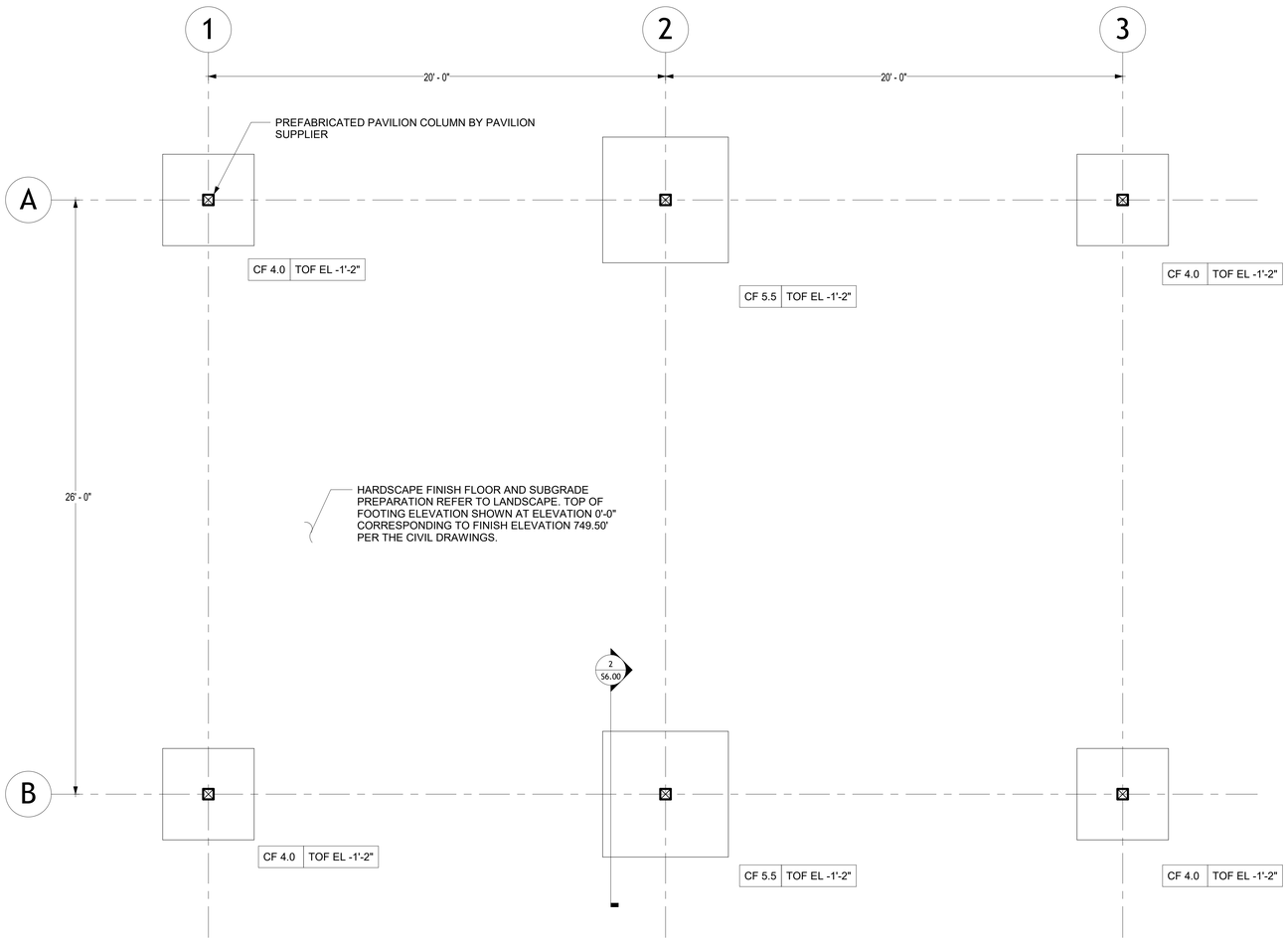
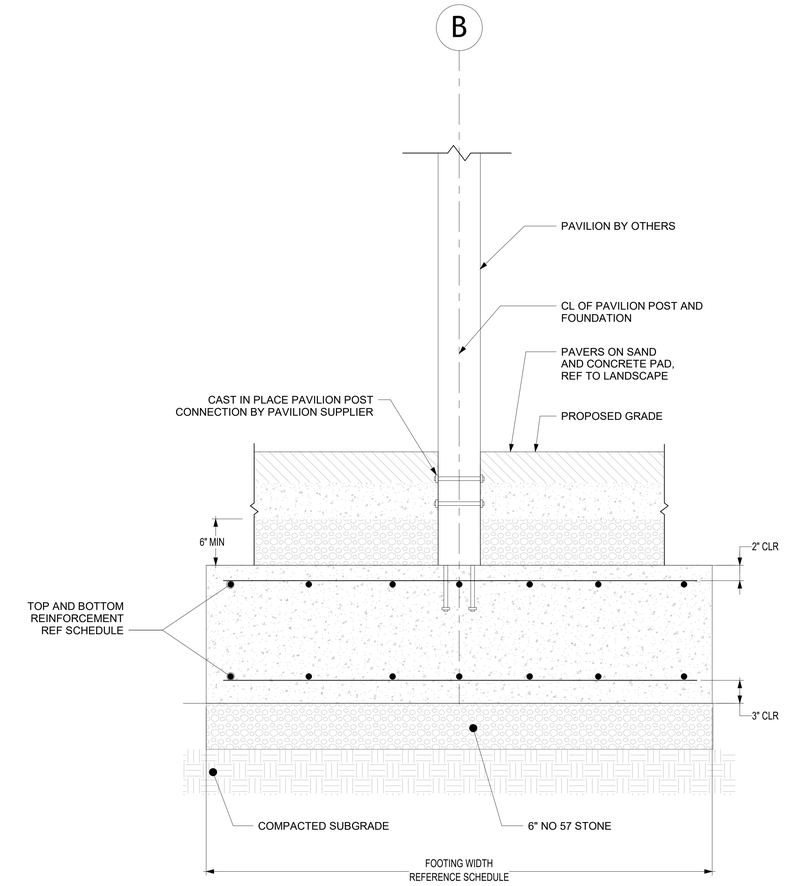
FOOTING SCHEDULE			
FOOTING TAG	FOOTING DIMENSIONS	FOOTING THICKNESS	REINFORCEMENT
CF 4.0	4'-0" X 4'-0"	18"	(6)#5 T&B EA WAY
CF 5.5	5'-6" X 5'-6"	18"	(7)#5 T&B EA WAY





1 S6.00 PAVILION FOUNDATION PLAN
3/8" = 1'-0"

2 S6.00 S6.00 PAVILION FOUNDATION SECTION DETAIL
1 1/2" = 1'-0"

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VICTOR JOSEPH TORRES
REGISTERED
07/15/2026
PROFESSIONAL ENGINEER

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MILLER PARK POOL
LYNCHBURG, VA
PAVILION FOUNDATION PLAN

JOB NO. 73263
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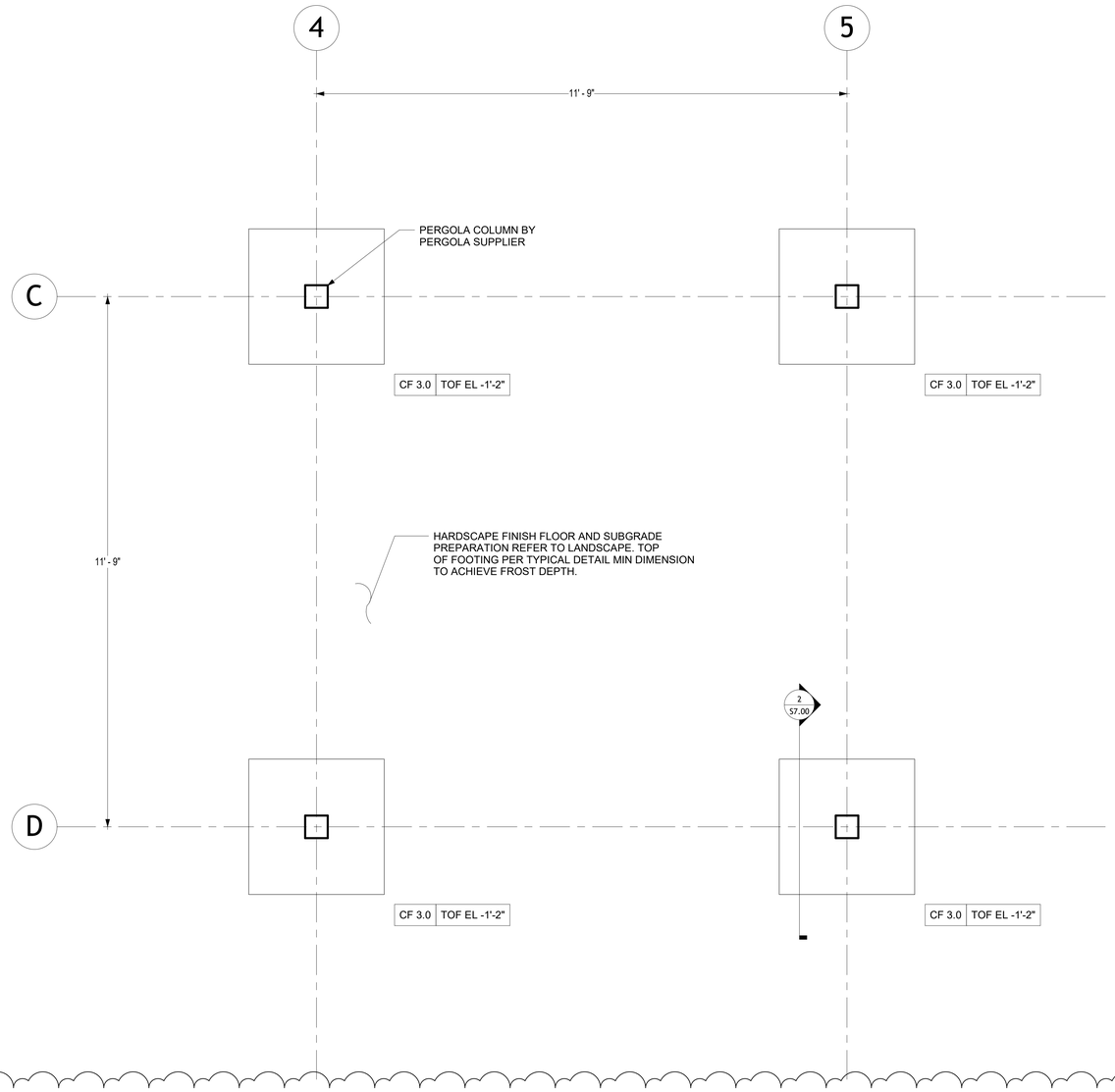
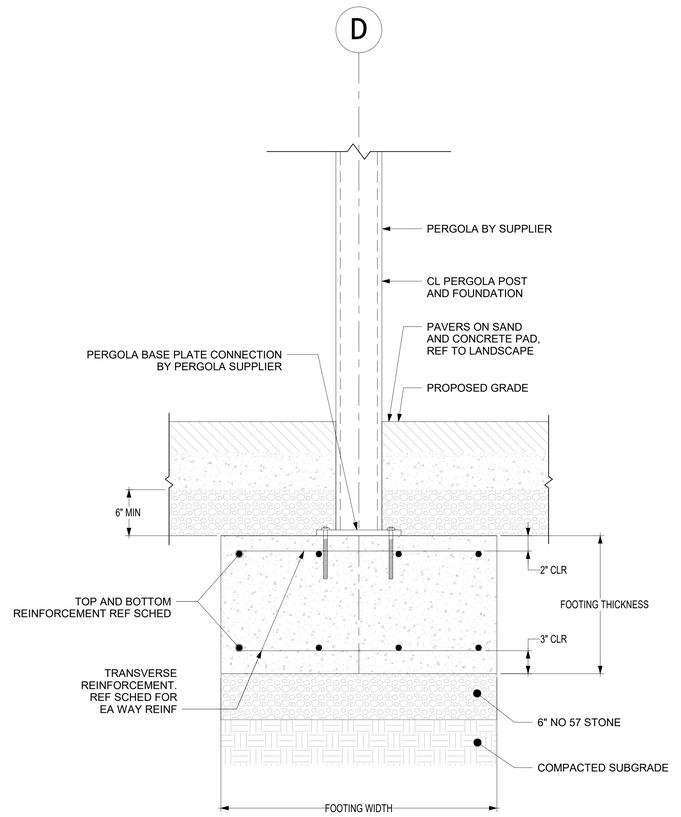
FOOTING SCHEDULE			
FOOTING TAG	FOOTING DIMENSIONS	FOOTING THICKNESS	REINFORCEMENT
CF 3.0	3'-0" X 3'-0"	12"	(4)#5 T&B EA WAY



1 S7.00 PERGOLA FOUNDATION PLAN
3/4" = 1'-0"



NOTE: ANCHOR BOLTS SHALL BE FURNISHED WITH ANCHOR BOLT CAPS. ENCASED IN CONCRETE AND/OR PAINTED WITH (2) COATS OF ASPHALTUM

2 S7.00 S7.00 PERGOLA FOUNDATION SECTION DETAIL
1 1/2" = 1'-0"

2

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MILLER PARK POOL
LYNCHBURG, VA
PERGOLA FOUNDATION PLAN

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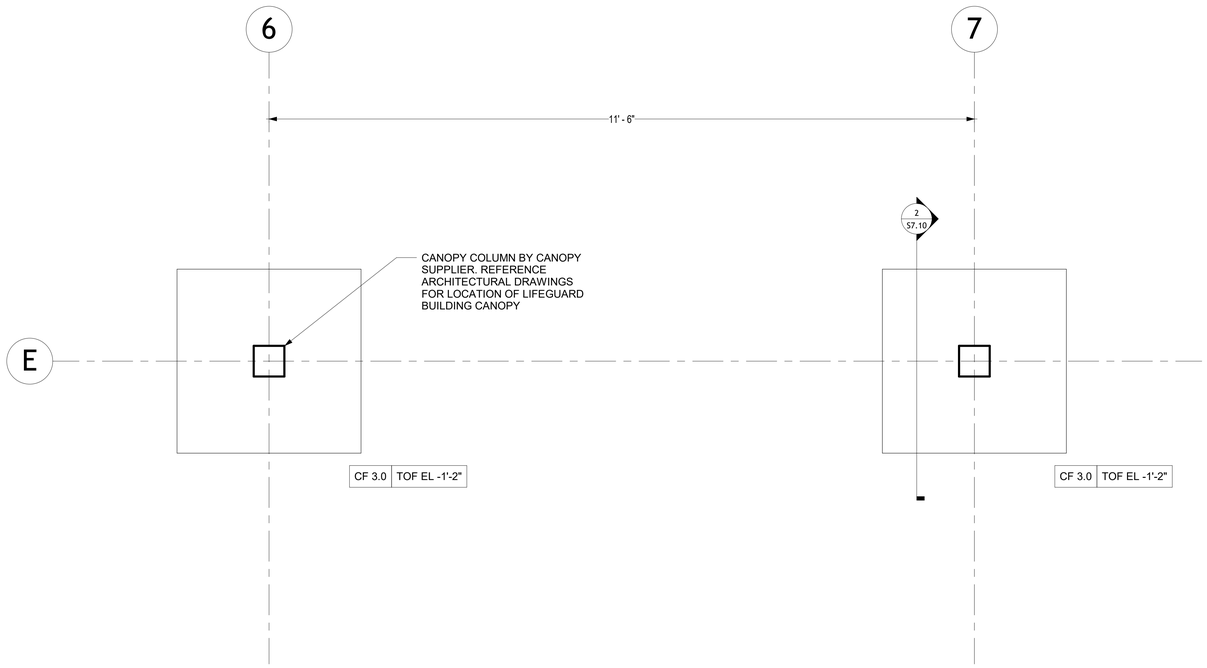
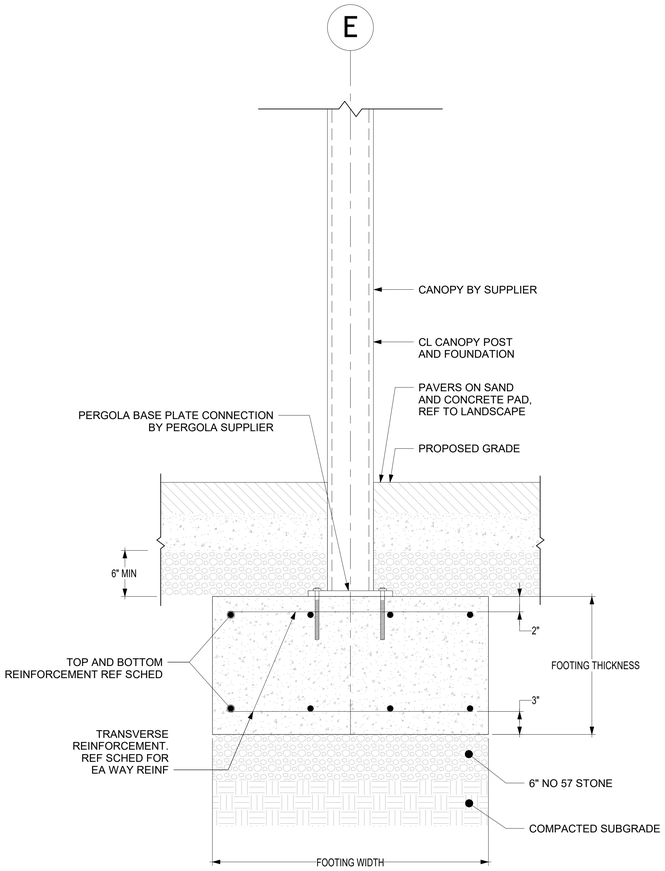
FOOTING SCHEDULE			
FOOTING TAG	FOOTING DIMENSIONS	FOOTING THICKNESS	REINFORCEMENT
CF 3.0	3'-0" X 3'-0"	12"	(4)#5 T&B EA WAY



1 S7.10 CANOPY FOUNDATION PLAN
1" = 1'-0"



2 S7.10 S7.10 CANOPY FOUNDATION SECTION DETAIL
1 1/2" = 1'-0"

BID SET
NOT FOR CONSTRUCTION
07/15/2026

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7293 Delaberian Park Ave Suite 300, Richmond, VA 23225
TEL: 804.560.1000 FAX: 804.560.1016 www.timmons.com

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DATE	REVISION DESCRIPTION
07/15/2026	ADDENDUM 2

DATE 07/15/26
DRAWN BY LSS
DESIGNED BY JJP
CHECKED BY VJT
SCALE AS SHOWN

TIMMONS GROUP

MILLER PARK POOL
LYNCHBURG, VA
CANOPY FOUNDATION PLAN

JOB NO. 73263
SHEET NO. S7.10

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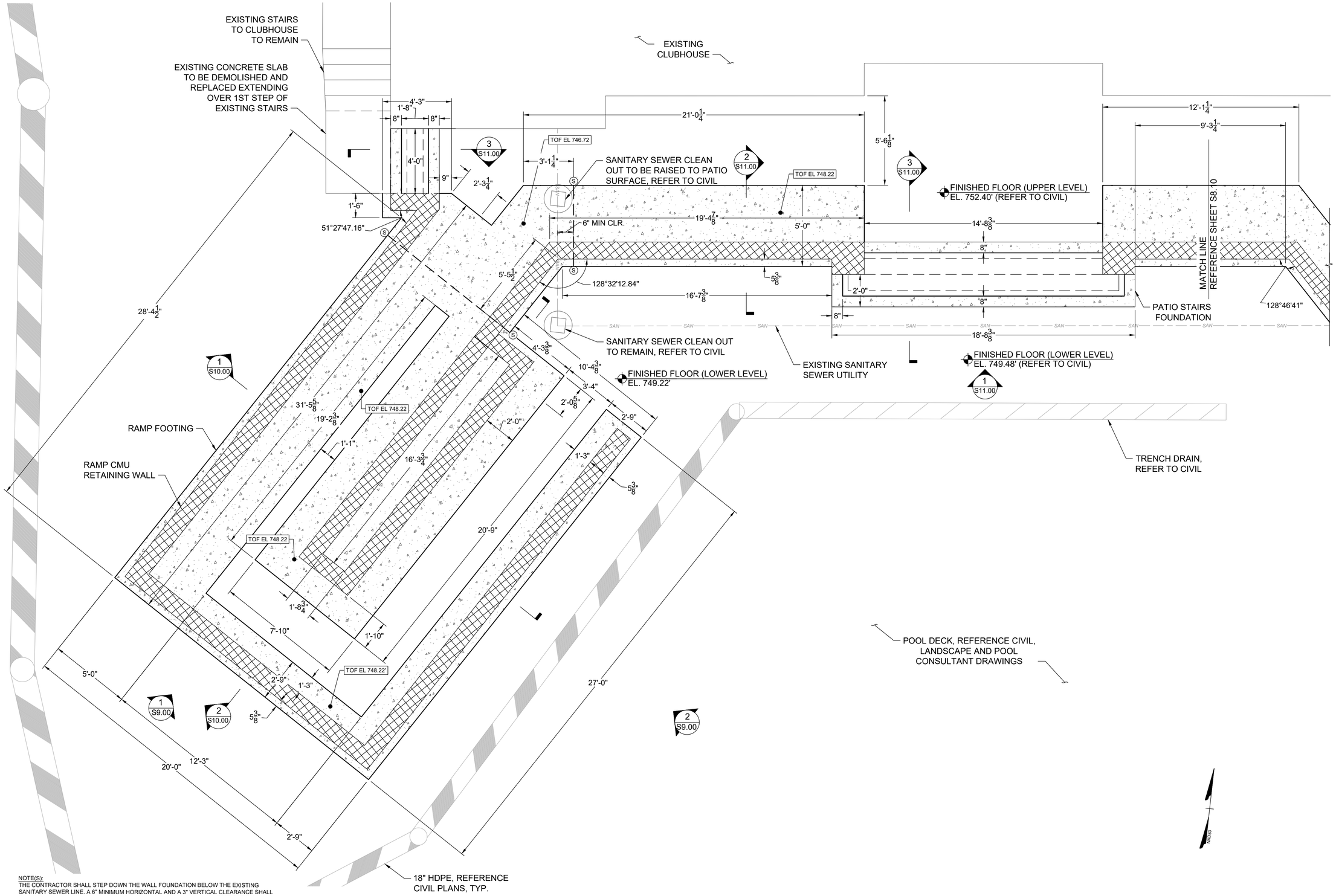
C:\Users\Victor.Torres\OneDrive - Timmons Group Inc\Documents\57972 - Miller Park Building Plans_Victor.TorresEDTMHE.rvt
7/14/2026 4:17:59 PM



NOTE(S):
THE CONTRACTOR SHALL STEP DOWN THE WALL FOUNDATION BELOW THE EXISTING SANITARY SEWER LINE. A 6" MINIMUM HORIZONTAL AND A 3" VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN THE SANITARY SEWER PIPE AND THE WALL FOUNDATION.

1 S8.00 RAMP AND STAIR FOUNDATION PLAN
SCALE: ¾" =1'-0"

BID SET
NOT FOR CONSTRUCTION

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REVISION DESCRIPTION	DATE
ADDENDUM 2	7/15/2026

DATE 07/15/26
DRAWN BY GBL
DESIGNED BY JJP
CHECKED BY VJT
SCALE AS NOTED

TIMMONS GROUP

MILLER PARK POOL
LYNCHBURG, VA

RAMP AND STAIR FOUNDATION PLAN

JOB NO. 57972.002
SHEET NO. S8.00

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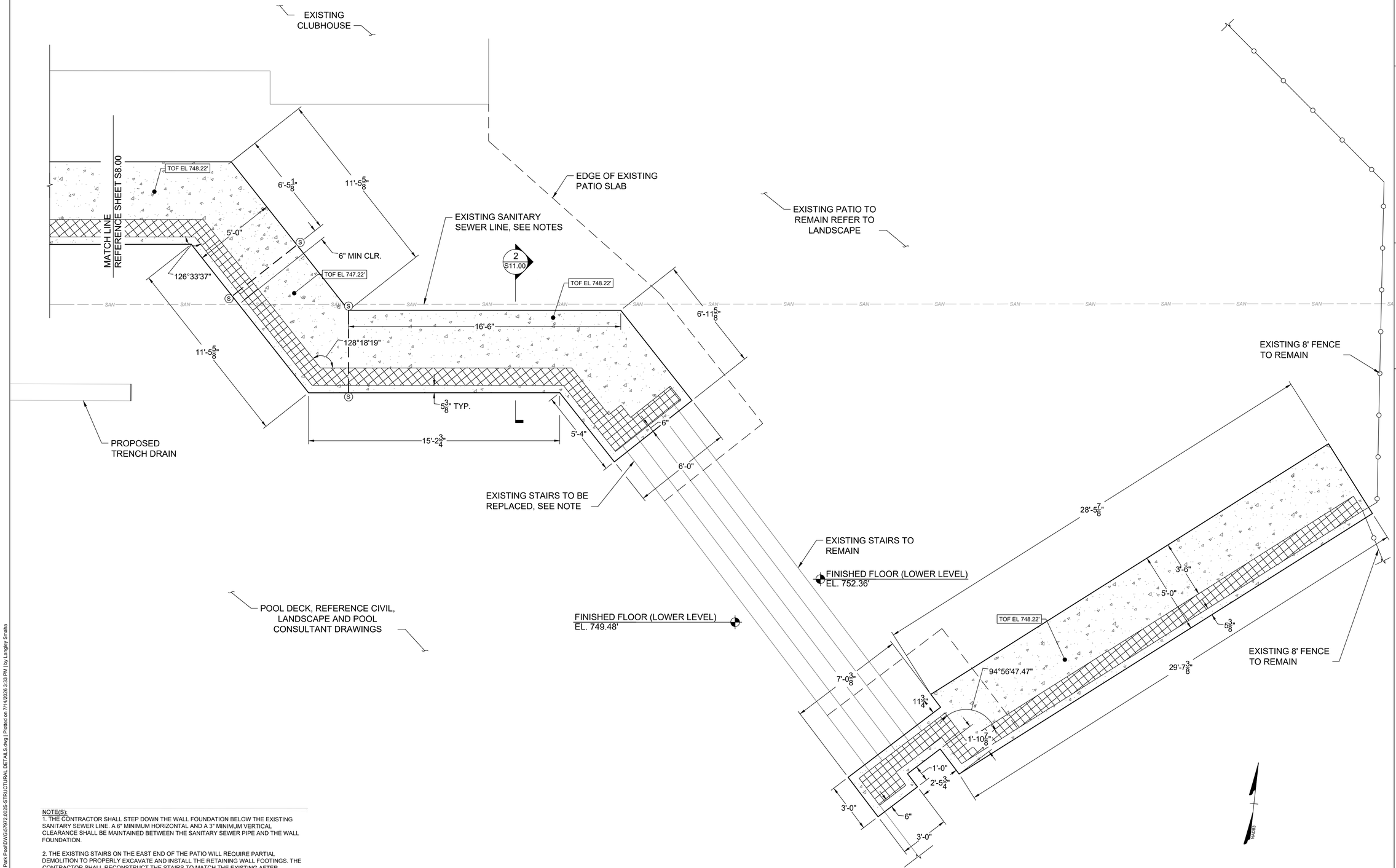
\\timmons.com\fgh\2020\210\57972.002 Miller Park Pool\DWGS\57972.002S-STRUCTURAL DETAILS.dwg | Plotted on 7/14/2026 3:33 PM | by Langley Smalra



NOTE(S):
1. THE CONTRACTOR SHALL STEP DOWN THE WALL FOUNDATION BELOW THE EXISTING SANITARY SEWER LINE. A 6" MINIMUM HORIZONTAL AND A 3" MINIMUM VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN THE SANITARY SEWER PIPE AND THE WALL FOUNDATION.

2. THE EXISTING STAIRS ON THE EAST END OF THE PATIO WILL REQUIRE PARTIAL DEMOLITION TO PROPERLY EXCAVATE AND INSTALL THE RETAINING WALL FOOTINGS. THE CONTRACTOR SHALL RECONSTRUCT THE STAIRS TO MATCH THE EXISTING AFTER COMPLETION OF THE RETAINING WALL. REFERENCE CIVIL DEMOLITION PLAN.

3. RECONSTRUCTED STAIRS SHALL BE REINFORCED PER TYPICAL STAIR ON GRADE DETAIL ON SHEET S11.00.

1 / S8.10 CLUBHOUSE PATIO RETAINING WALL FOUNDATION PLAN
SCALE: NTS

COMMONWEALTH OF VIRGINIA — Victoria Jane Pierce — Notary Public — 7/31/2026 — PROFESSIONAL ENGINEER

BID SET
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MILLER PARK POOL
LYNCHBURG, VA

CLUBHOUSE PATIO RETAINING WALL FOUNDATION PLAN

JOB NO. 57972.002
SHEET NO. S8.10

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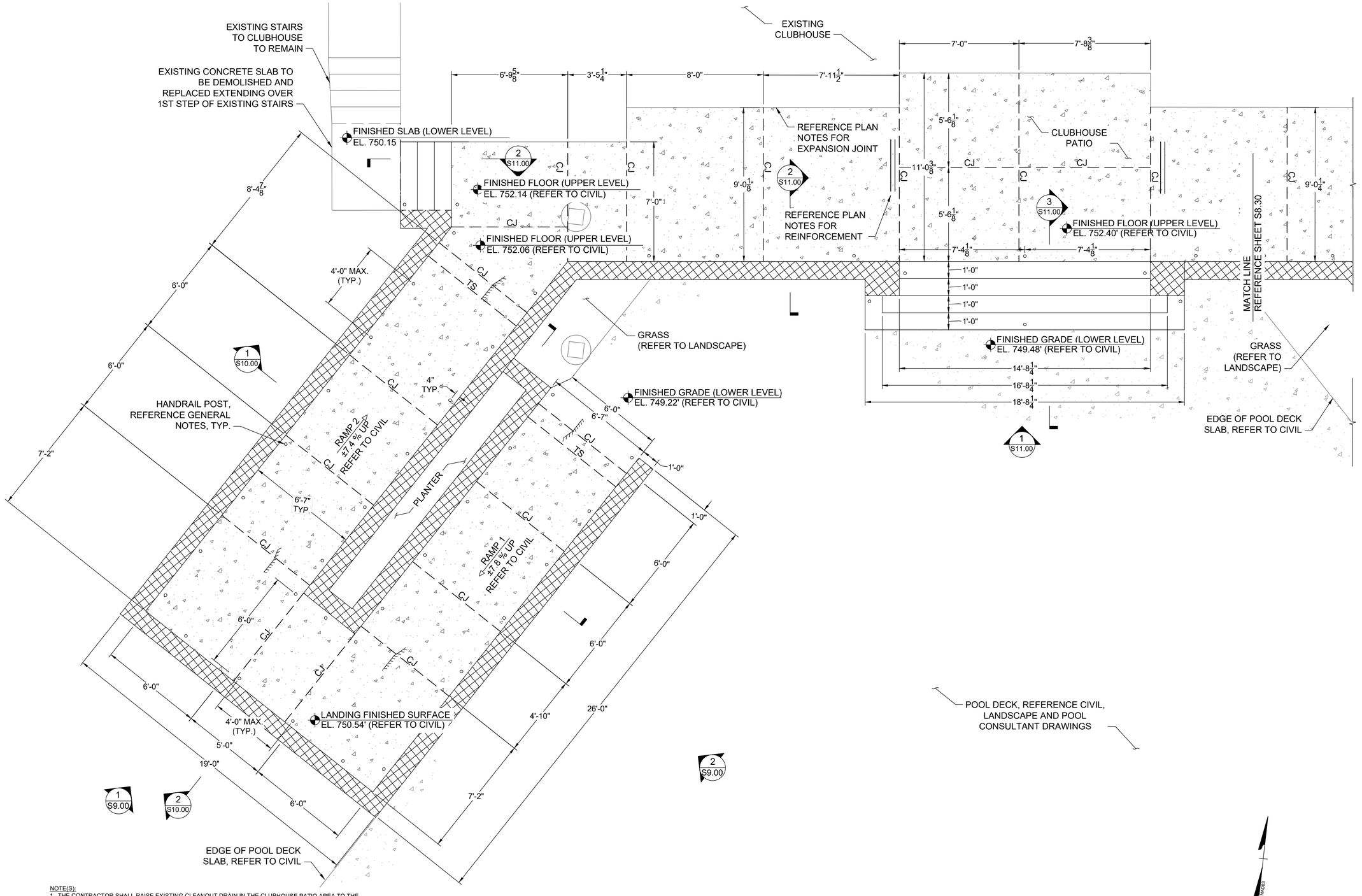

1 / S8.20 RAMP AND PATIO SLAB PLAN
SCALE: NTS

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REVISION DESCRIPTION

DATE	ADDENDUM 2
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DATE 07/15/26
DRAWN BY GBL
DESIGNED BY JJP
CHECKED BY VJT
SCALE AS NOTED

TIMMONS GROUP

MILLER PARK POOL
LYNCHBURG, VA

RAMP AND PATIO SLAB PLAN

JOB NO. 57972.002
SHEET NO. S8.20

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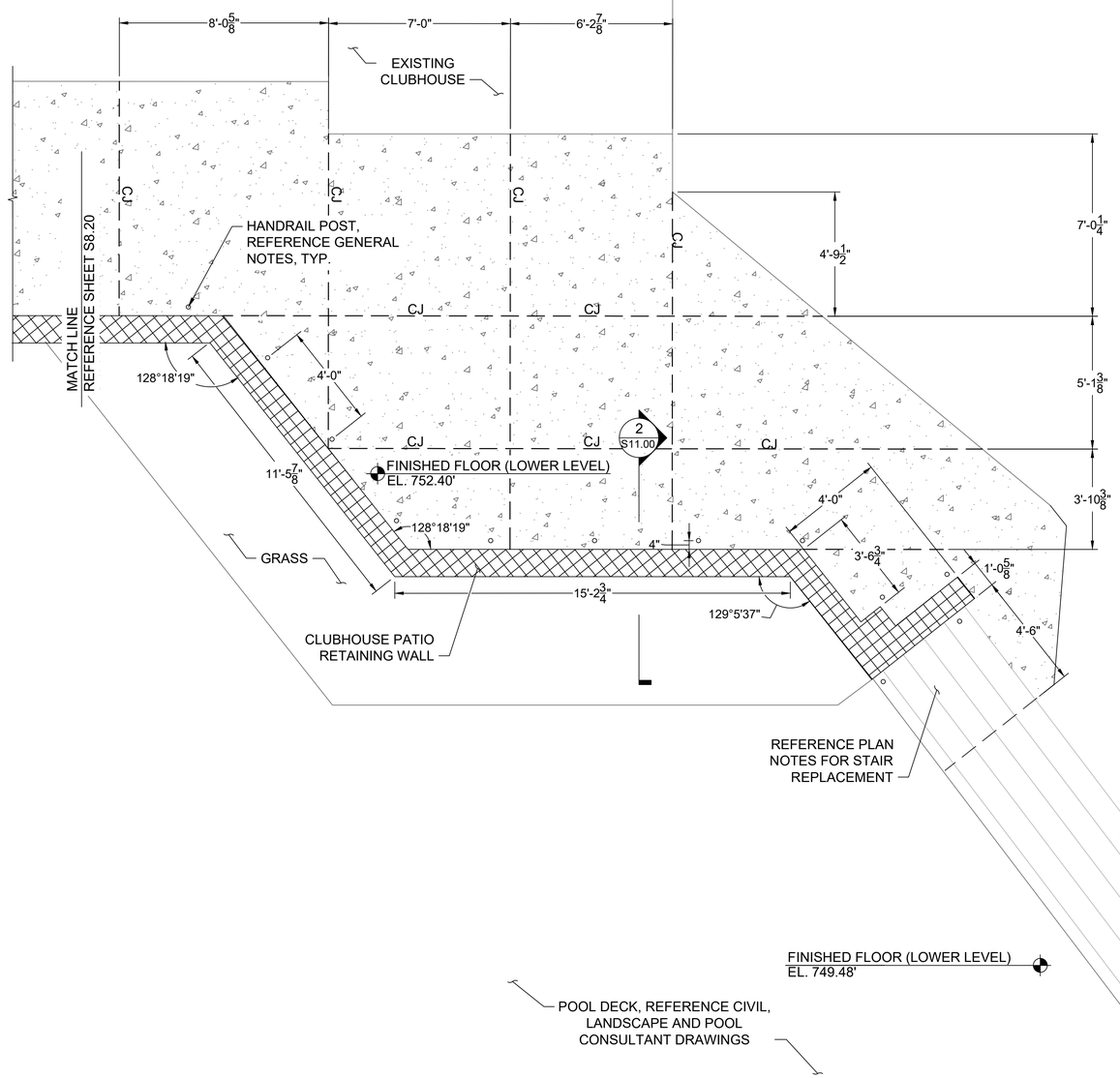
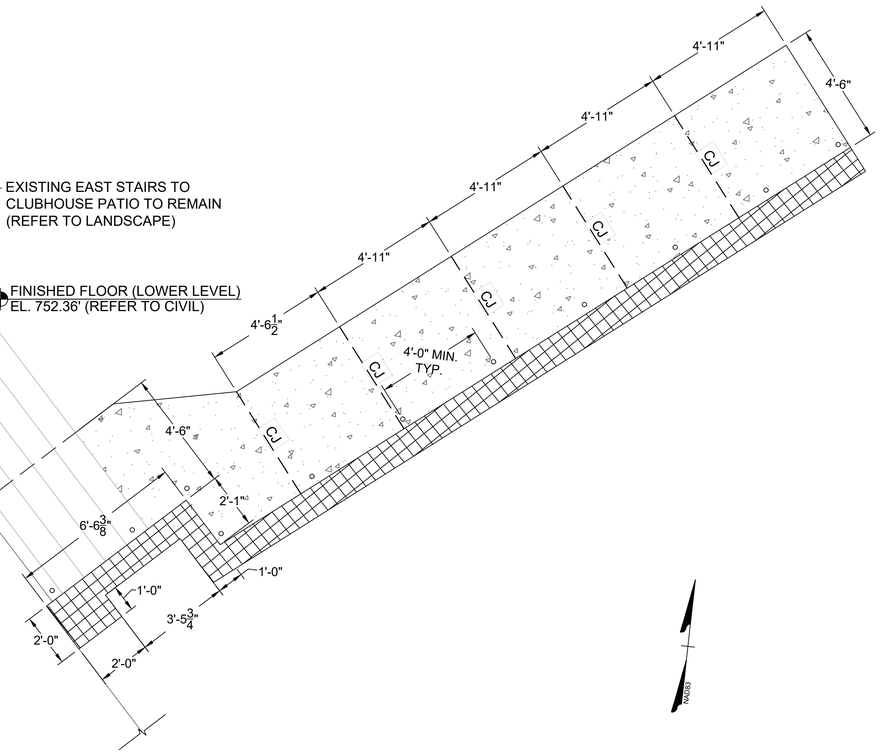


EXISTING PATIO TO REMAIN (REFER TO LANDSCAPE)

EXISTING EAST STAIRS TO CLUBHOUSE PATIO TO REMAIN (REFER TO LANDSCAPE)

FINISHED FLOOR (LOWER LEVEL)
EL. 752.36' (REFER TO CIVIL)



NOTE(S):
1. REFER TO CIVIL FOR SLAB GRADING INFORMATION.

2. SAW CUT AND REMOVE EXISTING STAIR AS NEEDED TO INSTALL NEW WALL FOUNDATION. MATCH EXISTING CONCRETE COLOR FOR AESTHETICS. REPLACE AND DOWEL NEW STAIR TO EXISTING STAIR PER TYPICAL STAIR DETAIL

1 / S8.30 EASTERN END OF PATIO SLAB PLAN
SCALE: NTS

COMMONWEALTH OF VIRGINIA
Victor Torres
VICTOR J. TORRES
LICENSED
07/15/2026
PROFESSIONAL ENGINEER
BID SET
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MILLER PARK POOL
LYNCHBURG, VA

EASTERN END OF PATIO SLAB PLAN

JOB NO. 57972.002
SHEET NO. S8.30

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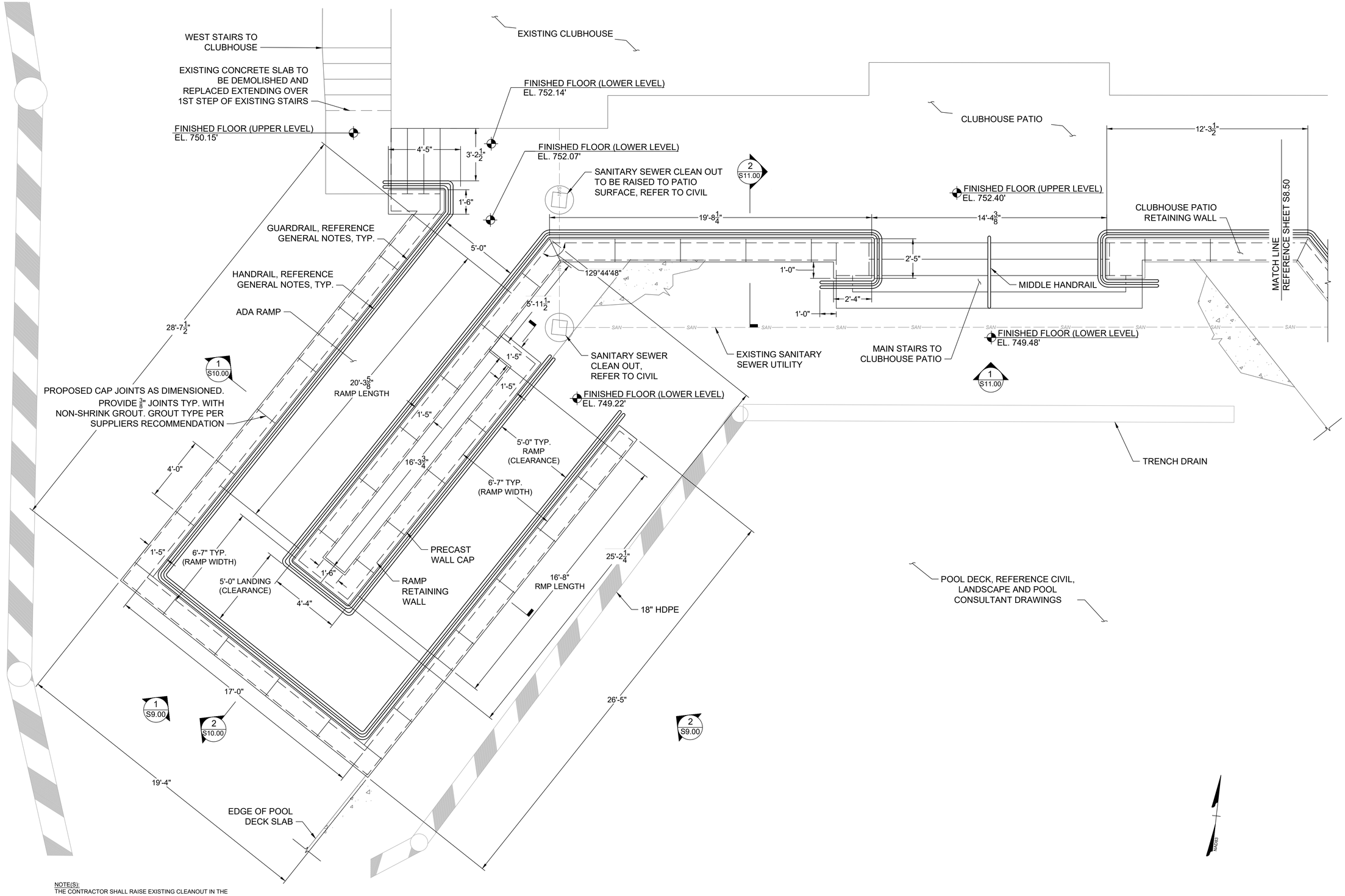

NOTE(S):
THE CONTRACTOR SHALL RAISE EXISTING CLEANOUT IN THE CLUBHOUSE PATIO AREA TO THE FINISHED GRADE ELEVATION, REFER TO CIVIL FOR DETAILS.

1 / S8.40 WALL CAP AND HANDRAIL PLAN
SCALE: 1/4"=1'-0"

COMMONWEALTH OF VIRGINIA — VICTOR JAMES TORRES — 3904 — PROFESSIONAL ENGINEER — 7/15/2026 — Victor James Torres — Digitally signed by Victor James Torres — Date: 2026.07.15 15:33:47 -04'00'

BID SET
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SCALE AS NOTED

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MILLER PARK POOL
LYNCHBURG, VA
WALL CAP AND HANDRAIL PLAN

JOB NO. 57972.002
SHEET NO. S8.40

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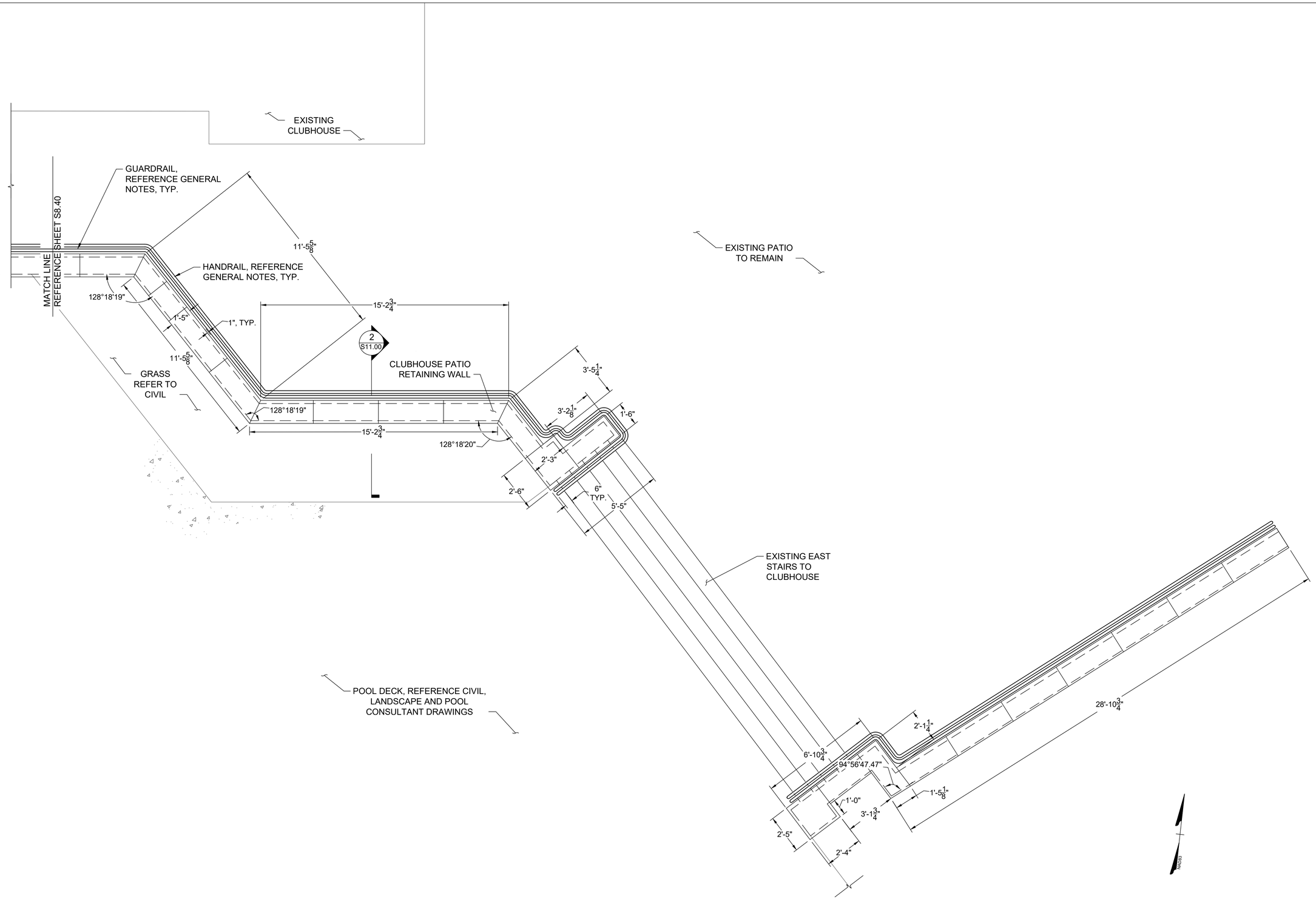

1 S8.50 WALL CAP AND HANDRAIL PLAN CONTINUED

SCALE: NTS

COMMONWEALTH OF VIRGINIA
Victor Torres
Digitally signed by Victor Torres
Date: 2026.07.15 15:33:47 -04'00'
VICTOR J. TORRES, JR.
Lic. No. 0402026
PROFESSIONAL ENGINEER
BID SET
NOT FOR CONSTRUCTION

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MILLER PARK POOL
LYNCHBURG, VA

WALL CAP AND HANDRAIL PLAN CONT.

JOB NO. 57972.002
SHEET NO. S8.50

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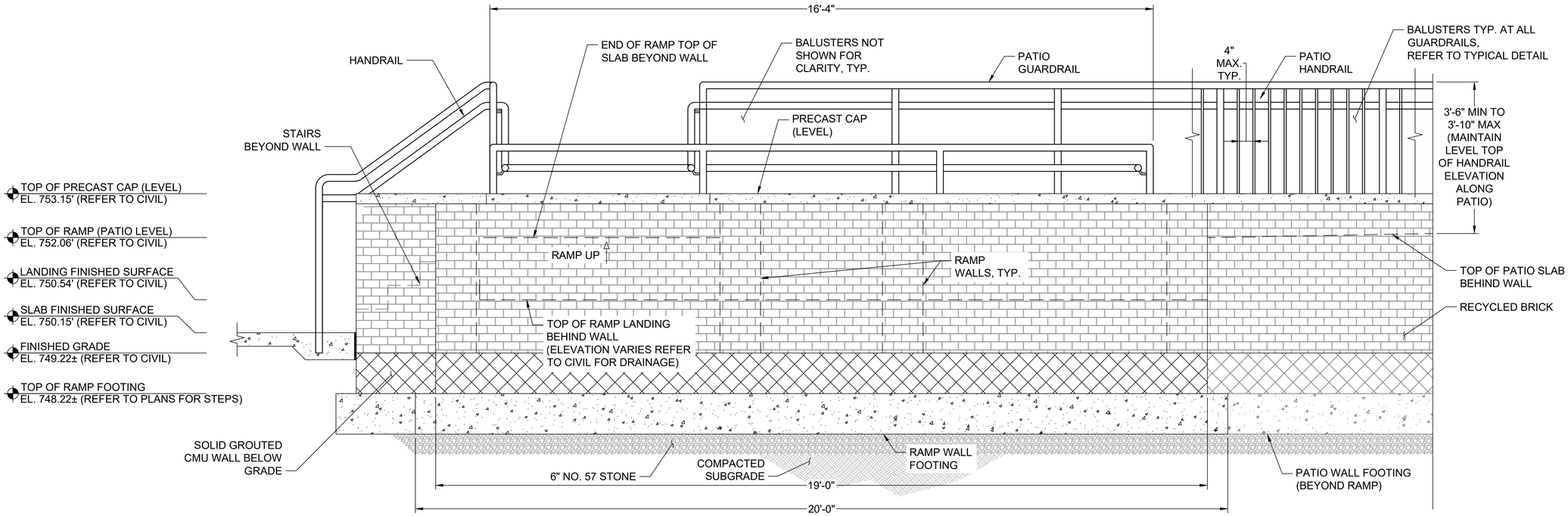
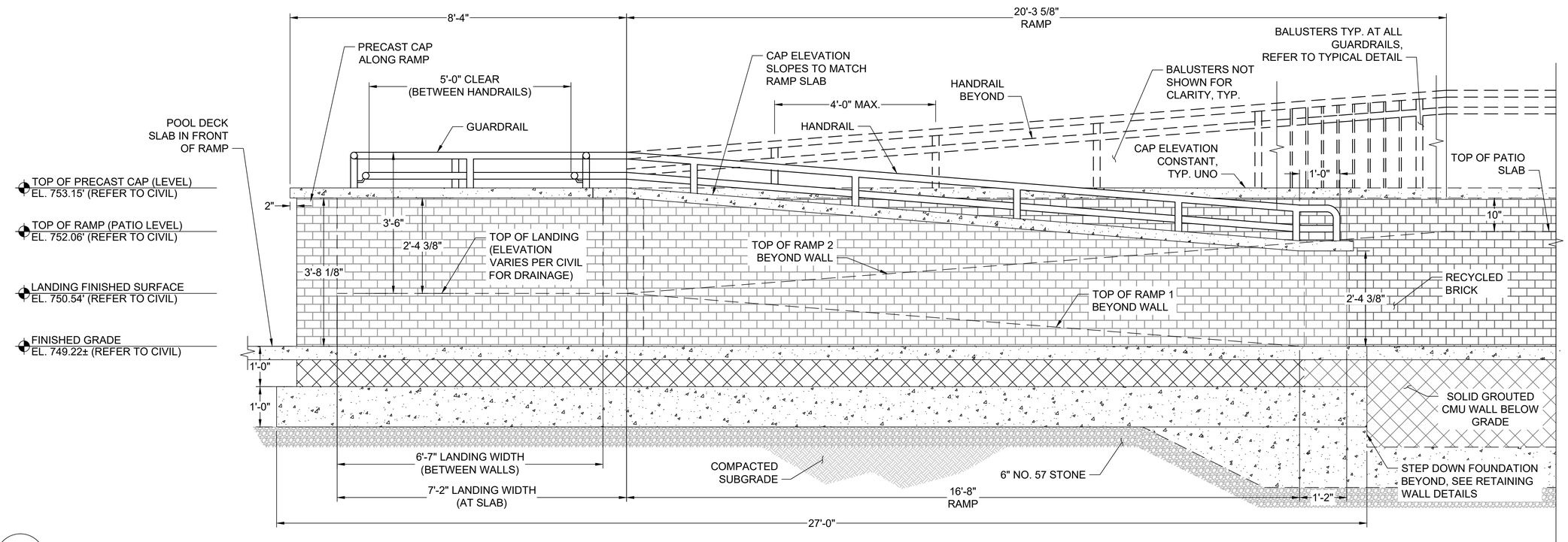


1 S8.20 | S9.00 RAMP SOUTH ELEVATION

SCALE: NTS



2 S8.20 | S9.00 RAMP EAST ELEVATION

SCALE: NTS

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Victor Torres
Digitally signed by Victor Torres
VICTOR JOSEPH TORRES
07/15/2026
PROFESSIONAL ENGINEER
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MILLER PARK POOL
LYNCHBURG, VA
RAMP ELEVATIONS

JOB NO. 57972.002
SHEET NO. S9.00

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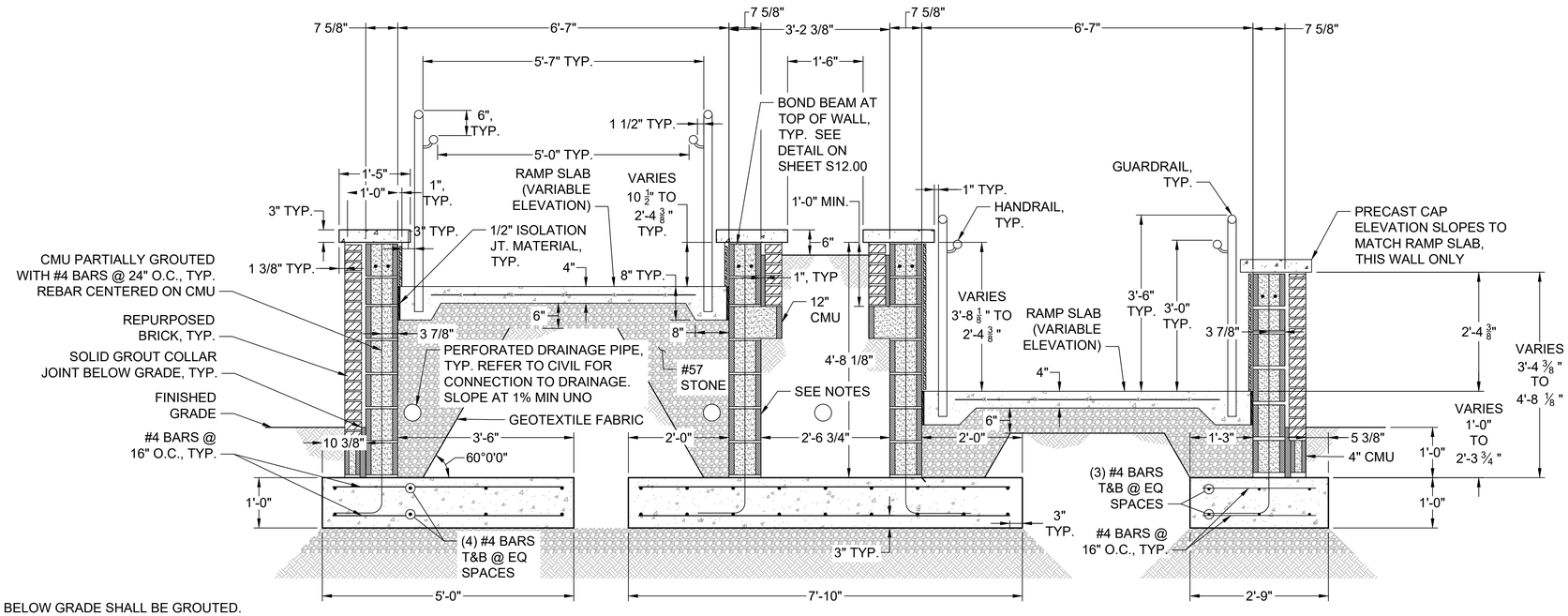
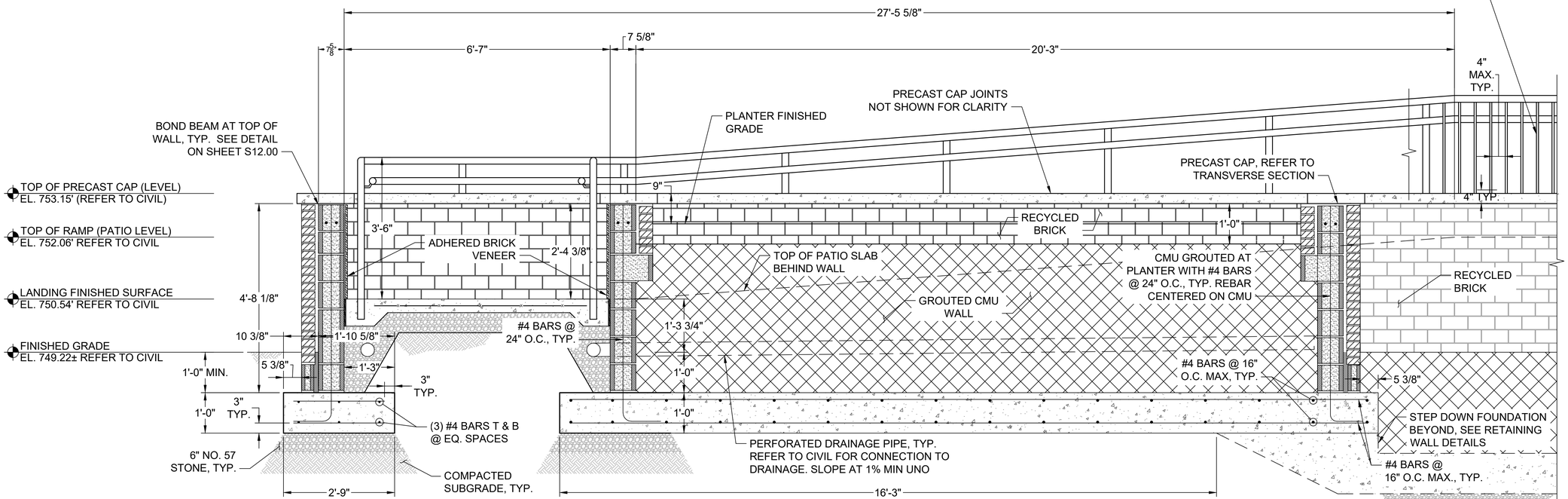


NOTE(S):
1. ALL COLLAR JOINTS BELOW GRADE SHALL BE GROUTED.
2. AT PLANTER SOLID GROUT CMU BELOW GRADE.
3. REFER TO BUILDING DRAWINGS FOR MASONRY EXPANSION JOINT DETAIL.

1 S8.20 S10.00 — RAMP TRANSVERSE SECTION
SCALE: NTS

2



NOTE(S):
1. REFER TO BUILDING DRAWINGS FOR MASONRY EXPANSION JOINT DETAIL.

2 S8.20 S10.00 — RAMP LONGITUDINAL SECTION
SCALE: NTS

2

\\timmons.com\gfx\2000\210\57972.002 Miller Park Pool\DWG\57972.002S-STRUCTURAL DETAILS.dwg | Plotted on 7/14/2026 3:34 PM | by Langley Sinatha

COMMONWEALTH OF VIRGINIA
Victor Torres
VICTOR J. TORRES
Number 0402062026
PROFESSIONAL ENGINEER
Digitally signed by Victor Torres
Victor.Torres@timmons.com
BID SET
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MILLER PARK POOL
LYNCHBURG, VA
RAMP SECTIONS

JOB NO. 57972.002
SHEET NO. S10.00

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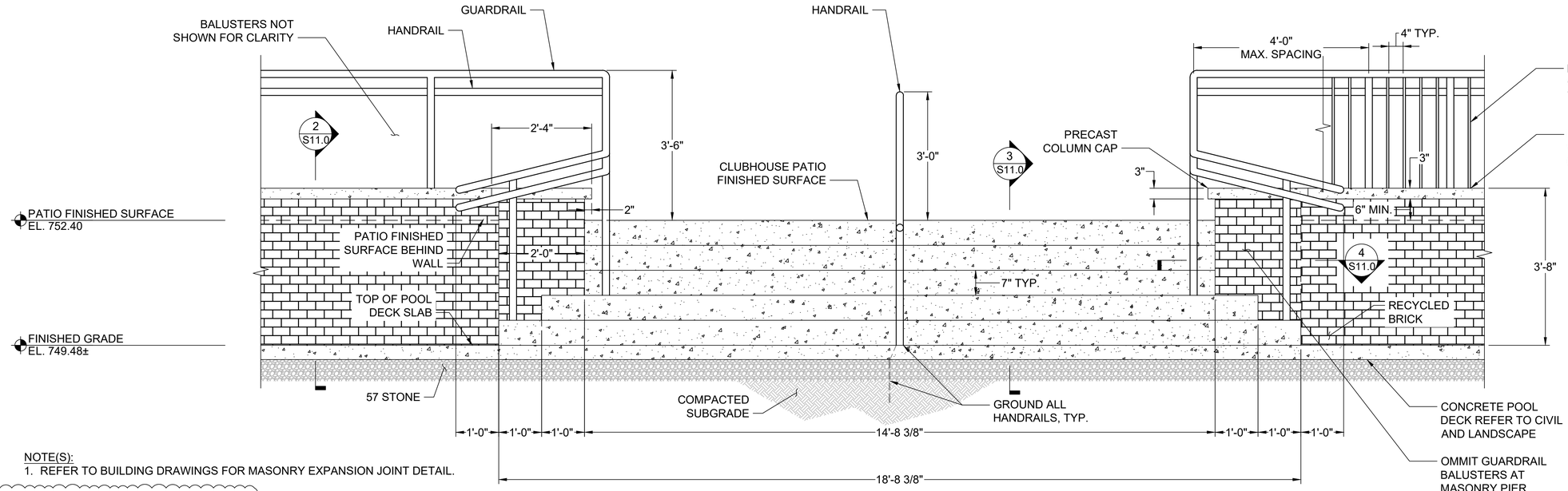
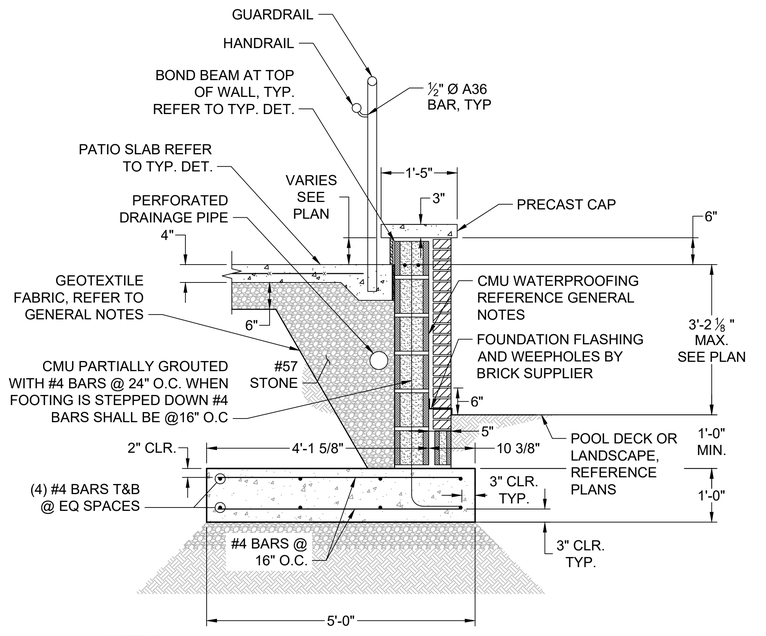


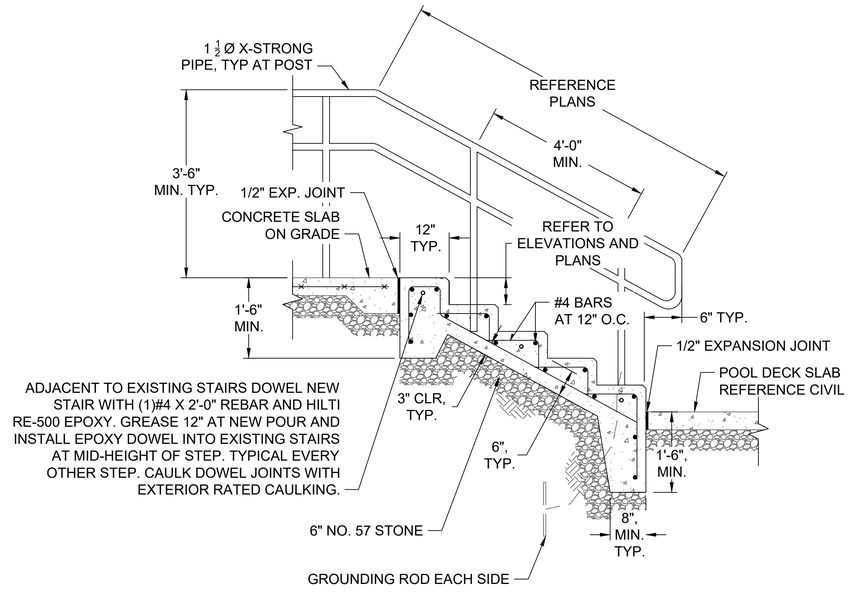
NOTE(S):
1. REFER TO BUILDING DRAWINGS FOR MASONRY EXPANSION JOINT DETAIL.

1 S11.00 — MAIN STAIRS TO PATIO ELEVATION
SCALE: NTS



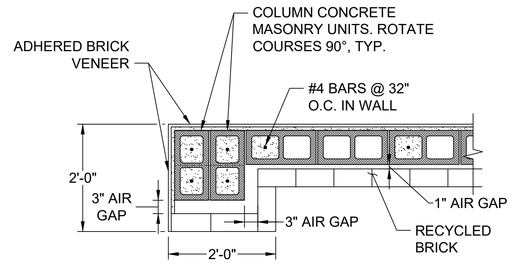
NOTE(S):
1. REFER TO BUILDING DRAWINGS FOR MASONRY EXPANSION JOINT DETAIL.

3 S11.0 — TYPICAL PATIO RETAINING WALL DETAIL
SCALE: NTS



NOTE(S):
1. RETAINING WALL NOT SHOWN FOR CLARITY.

4 S11.0 — TYPICAL STAIR DETAIL
SCALE: NTS



5 S11.00 — TYPICAL COLUMN SECTION
SCALE: NTS

BID SET
NOT FOR CONSTRUCTION
Victoria Torres
Digitally signed by Victoria Torres
Date: 2026.07.15 15:37:37 -04'00'
COMMONWEALTH OF VIRGINIA
VICTORIA JOY TORRES
Lic. No. 0402060026
07/15/2026
PROFESSIONAL ENGINEER

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SCALE AS NOTED

TIMMONS GROUP

MILLER PARK POOL
LYNCHBURG, VA
CLUBHOUSE PATIO RETAINING WALL AND STAIR FOUNDATION PLAN

JOB NO. 57972.002
SHEET NO. S11.00

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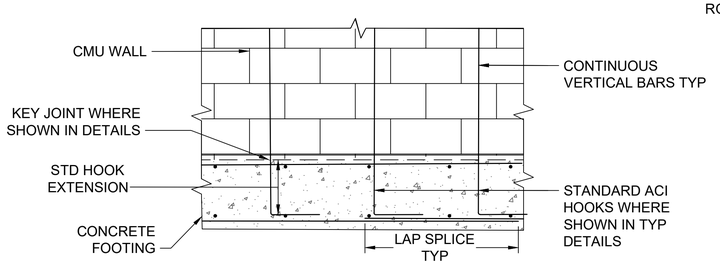
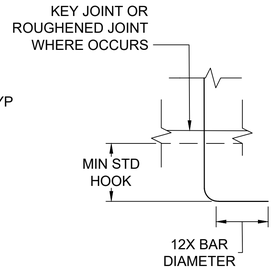


EXAMPLE ELEVATION OF EXPECTED CONTINUOUS REINFORCEMENT CONDITIONS AT CONCRETE FOOTINGS

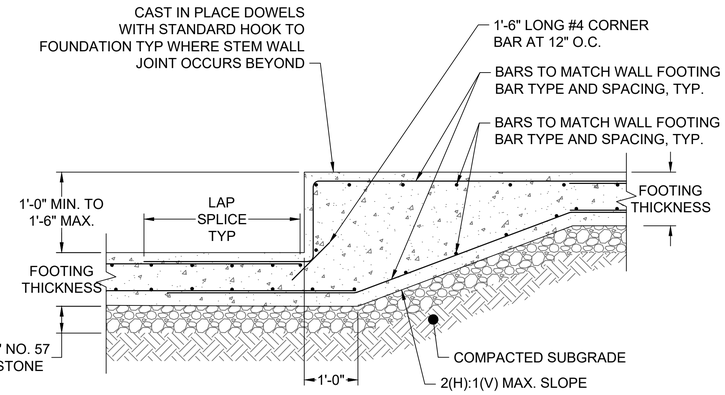


ACI STANDARD HOOK GEOMETRY

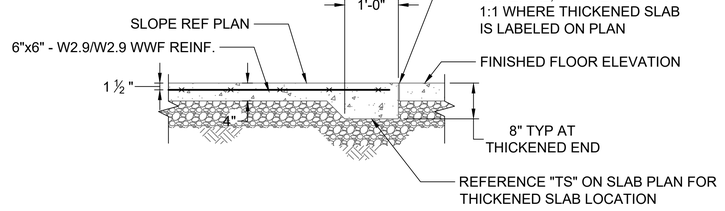
REINFORCEMENT DEVELOPMENT SCHEDULE			
CONCRETE STRENGTH	BAR SIZE	LAP SPLICE	STANDARD HOOK
4500 PSI	#5	30"	12"

NOTE(S):
1. SCHEDULE IS FOR CAST IN PLACE BARS WITHOUT EPOXY COATING.
2. WHERE STANDARDS HOOKS HAVE 2 ½" COVER OR MORE THE STANDARD HOOK DIMENSION CAN BE REDUCED BY 0.7 AS NEEDED.
3. ALL HOOKS AND SPLICES SHALL CONFORM TO THE GENERAL GUIDANCE PROVIDED IN THIS DETAIL.
4. ALL BARS MUST BE CONTINUOUS AND CONFORM TO THE GENERAL GUIDANCE PROVIDED IN THIS DETAIL.

1 / S12.00 TYPICAL SLAB ON GRADE DETAIL
SCALE: 3/4"= 1 '- 0"



2 / S12.00 TYPICAL FOUNDATION STEP DETAIL
SCALE: 3/4"= 1 '- 0"



3 / S12.00 TYPICAL THICKENED SLAB ON GRADE DETAIL AT RAMP AND PATIO
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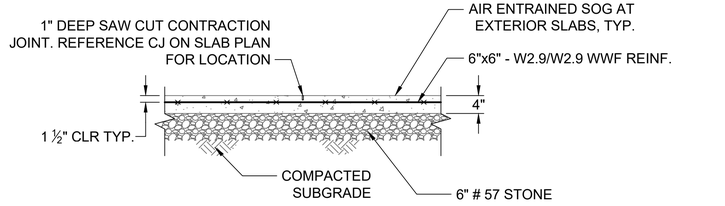

4 / S12.00 TYPICAL SLAB ON GRADE DETAIL
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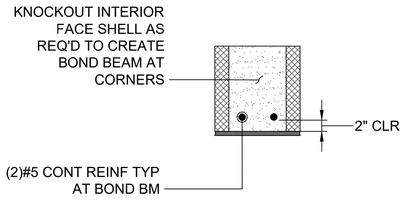
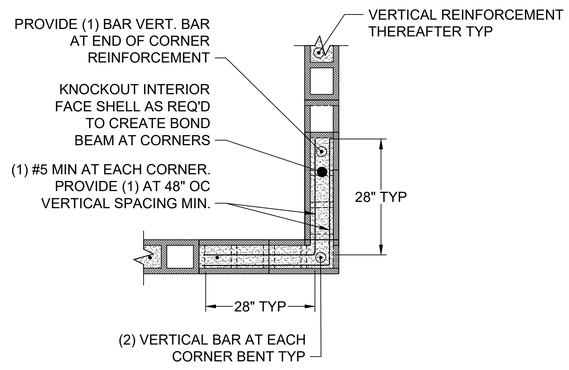
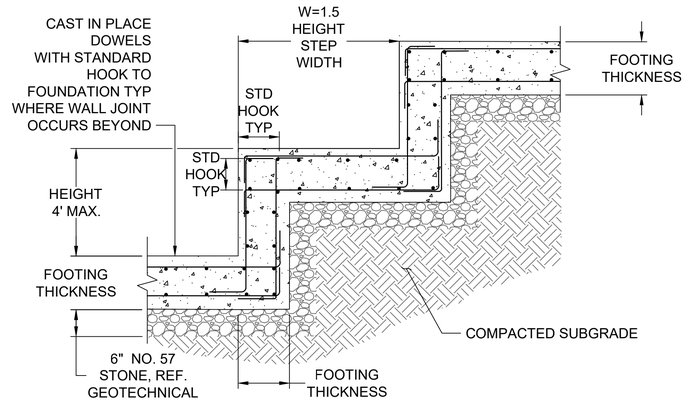


5 / S12.00 TYPICAL CMU BOND BEAM CONDITIONS
SCALE: NTS



6 / S12.00 TYPICAL CMU CORNER DETAIL
SCALE: NTS



7 / S12.00 ALTERNATE FOUNDATION STEP DETAIL
SCALE: NTS

\\timmons.com\gfx2000\2165\7972.002 Miller Park Pool\DWG\57972.002S-STRUCTURAL DETAILS.dwg | Plotted on 7/14/2026 3:34 PM | by Langley Smaha

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REVISION DESCRIPTION
ADDENDUM 2
DATE 7/15/2026

DATE 07/15/26
DRAWN BY GBL
DESIGNED BY JJP
CHECKED BY VJT
SCALE AS NOTED

TIMMONS GROUP

MILLER PARK POOL
LYNCHBURG, VA
WALL AND SLAB DETAILS

JOB NO. 57972.002
SHEET NO. S12.00

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