ADDENDUM NO. 1 **7/24/2023**

RE: **Bound Brook Pool Renovations**
Bound Brook, NJ
Project No. 21105

FROM: **Brandstetter Carroll Inc.**
2360 Chauvin Drive
Lexington, Kentucky 40517
Phone 859-268-1933
Fax 859-268-3341

TO: **Plan Holders**

This addendum forms a part of the Construction Documents and modifies the original bidding documents dated July 17th, 2023. Each bidder shall acknowledge receipt of this addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of one (4) pages.

GENERAL:

1. The pre-bid meeting occurred on July 21at 10:00 am at the Project Site. The attendance sheet is attached.

CHANGES TO SPECIFICATIONS:

A. Section 001113 – Advertisement for Bids

   a. Change Item 1.3.A. from "5% of the bid amount" to "10% of the bid amount, not to exceed twenty thousand dollars ($20,000).

B. Section 004113 – Bid Form – Stipulated Sum (single-prime contract)

   a. Change item 1.4.A.2. from "Plumbing Work" to "Pool Work"

CHANGES TO DRAWINGS:

1. CP-100 - S.W.P.P.P. , is added.
2. CP-101 – Demolition plan Clarification - The large tree located on the south ease corner of the pool (dive well) is to be removed during demolition.
3. E-100 - Site Electric Plan is added.
4. E-101 – Lighting and Power Plan, is replaced.

END OF ADDENDUM NO. 1

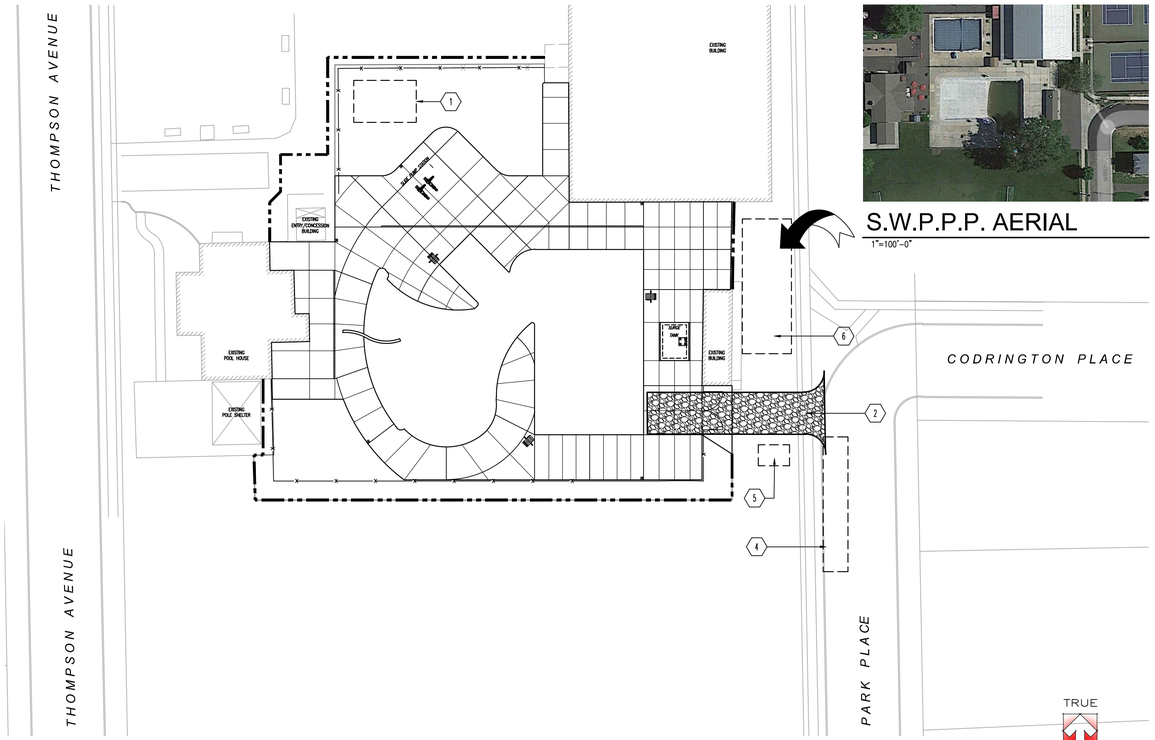
ATTENDANCE SHEET

PROJECT: Bound Brook Pool Renovations
PROJECT NO.: 21105

BRANDSTETTER CARROLL INC

DATE: July 21st 2023
TIME: 10:00 AM

NAME	COMPANY	Email Address
Dale Leubner	Borough of Bound Brook	dleubner@boundbrook-nj.org
Charlie Schneider	Brandstetter Carroll, Inc.	cschneider@bciaep.com
Anthony Bigous	Main Line Comercial pools	anthony@mainlinepools.
Jason Adams	All State Technology	LADAMS4497@aol.com
R. McCarthy	HAC	rmccarthy@



S.W.P.P.P. AERIAL

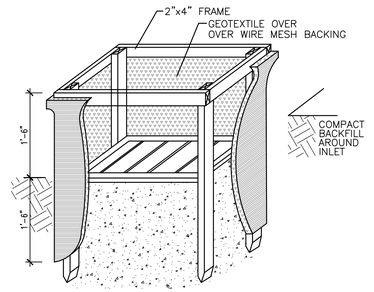
1"=100'-0"

Storm Water Prevention Protection Plan

1"=30'-0"

Soil Stabilization Notes

1. ALL DISTURBED AREAS WHICH REMAIN INACTIVE FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR OR FOR AREAS TO BE PERMANENTLY STABILIZED AT FINAL GRADE SHALL BE STABILIZED BY SEEDING, SODDING, MULCHING, COVERING OR OTHER EQUIVALENT EROSION CONTROL MEASURES AS SOON AS PRACTICAL BUT IN NO CASE MORE THAN SEVEN (7) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SEEDING SHALL BE DONE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
2. AREAS TO BE PERMANENTLY STABILIZED FOR FINAL GRADE SHALL BE STABILIZED BY SEEDING, SODDING MULCHING, COVERING OR OTHER EQUIVALENT EROSION CONTROL MEASURES WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE OR WITHIN SEVEN (7) DAYS OF REACHING FINAL GRADE.
3. ALL DISTURBED AREAS WHICH REMAIN INACTIVE FOR ONE YEAR OR MORE SHALL BE STABILIZED BY SEEDING, SODDING MULCHING, COVERING OR OTHER EQUIVALENT EROSION CONTROL MEASURES WITHIN SEVEN DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. ALL SUCH AREAS REMAINING INACTIVE OVER WINTER SEASON SHALL BE STABILIZED BY SEEDING, SODDING, MULCHING, COVERING OR OTHER EQUIVALENT EROSION CONTROL MEASURES AS SOON AS PRACTICAL BEFORE THE ONSET OF WINTER WEATHER.



SPECIFICATIONS
FOR
SILT FENCE INLET PROTECTION DETAIL

1. INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE STORM DRAIN BECOMES OPERABLE.
2. THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH AT LEAST 18".
3. THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2-BY-4-IN. CONSTRUCTION GRADE LUMBER. THE 2-BY-4-IN. POSTS SHALL BE DRIVEN 1 FT. INTO THE GROUND AT FOUR CORNERS OF THE INLET AND THE TOP PORTION OF THE 2-BY-4-IN. FRAME ASSEMBLED USING THE OVERLAP JOINT SHOWN. THE TOP OF THE FRAME SHALL BE AT LEAST 6 IN. BELOW ADJACENT ROADS IF PONDED WATER WOULD
4. WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME.
5. GEOTEXTILE SHALL HAVE AN EQUIVALENT OPENING SIZE OF 20-40 SIEVE AND BE RESISTANT TO SUNLIGHT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY, IT SHALL EXTEND FROM THE TOP OF THE FRAME TO 18 IN. BELOW THE INLET NOTCH ELEVATION. THE GEOTEXTILE SHALL OVERLAP ACROSS ONE SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.

1. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN EVENT.
2. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP.
3. STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

General Notes

1. THE CONTRACTOR(S) SHALL CONDUCT HIS WORK IN AN ENVIRONMENTALLY SOUND MANNER AND SHALL UTILIZE "BEST MANAGEMENT PRACTICES" (BMP'S) TO REDUCE OR ELIMINATE POLLUTANTS IN STORM WATER DISCHARGES DURING THE CONSTRUCTION OF THIS PROJECT.
2. PROVIDE EROSION CONTROL DEVICES COMPLETELY AROUND ADJACENT STORM WATER STRUCTURES.
3. CONTRACTORS ARE ADVISED THAT CARE SHOULD BE EXERCISED DURING UNDERGROUND EXCAVATION IN THE EVENT THAT UTILITY LINES ARE PRESENT THAT ARE UNCHARTED.
4. THE EXISTING UTILITY INFORMATION DEPICTED ARE APPROXIMATE LOCATIONS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATION OF ALL EXISTING UTILITIES (2) WORKING DAYS BEFORE ANY EXCAVATION OCCURS ON SITE AND PRIOR TO THE COORDINATION OF THE NEW UTILITIES LAYOUT AND INSTALLATION. CALL 811 BEFORE YOU DIG.
5. IF, DURING THE CONSTRUCTION, INTERFERENCE ARISES WITH EXISTING UTILITIES IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE UTILITY COMPANY INVOLVED. THE CONTRACTOR SHALL NOTIFY, AT LEAST (7) SEVEN DAYS BEFORE BREAKING GROUND, ALL PUBLIC SERVICE CORPORATIONS HAVING WIRES, POLES, PIPES, CONDUITS, MANHOLES, OR OTHER STRUCTURES THAT MAY BE AFFECTED BY THIS OPERATION, INCLUDING ALL STRUCTURES WHICH ARE AFFECTED AND NOT SHOWN ON THESE PLANS. THERE WILL BE NO DELAYS ALLOWED FOR UTILITY INTERFERENCES.
6. ALL AREAS DISTURBED OR DAMAGED OUTSIDE THE LIMITS OF CONSTRUCTION SHALL BE REPAIRED AT NO COST TO THE OWNER AND TO THE SATISFACTION OF THE OWNER.
7. THERE SHALL BE NO CONSTRUCTION EQUIPMENT, VEHICLES, OR STORAGE ON ANY FINISHED SURFACES.
8. PRIOR TO COMMENCEMENT OF EARTH DISTURBING ACTIVITIES, A PRE-CONSTRUCTION MEETING IS TO BE HELD. ALL REQUIRED CONTACT NAMES AND NUMBER WILL BE LISTED ON A PRE-CONSTRUCTION MEETING FORM PROVIDED SEPARATELY BY ARCHITECT. ANY SUBCONTRACTOR(S) REQUIRED TO BE A CO-PERMITTEE BY LOCAL JURISDICTIONS MUST BE LISTED AND PROVIDE A COPY OF THEIR NOTICE OF INTENT OR CO-PERMIT TO THE OWNER AND ATTACH TO THIS SWP3.
9. PROJECT INFORMATION: A) THIS PROJECT INCLUDES, BUT IS NOT LIMITED TO, EARTHWORK MOVEMENT IN PREPARATION OF AN EMERGENCY RESPONSE STATION, SANITARY SEWER SERVICE, DOMESTIC WATER SERVICE LINE, PARKING LOTS, ROADS, AND POWER.

Coded Notes

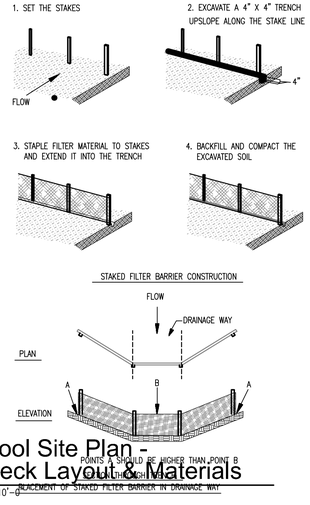
1. OVERBURDEN STOCKPILE LOCATION
2. STONE CONSTRUCTION ENTRANCE – A3/CP-100
3. SILT FENCE INLET PROTECTION – B4/CP-100
4. PARKING AREA
5. CONCRETE WASHOUT PIT
6. MATERIAL STORAGE

Legend

- SILT FENCING
- SILT FENCE INLET PROTECTION
- OVERBURDEN STOCK PILE
- STONE CONSTRUCTION ENTRANCE

Construction Sequence

1. INSTALL TEMPORARY CONSTRUCTION ENTRANCE PER THE SITE DRAWINGS BEFORE ANY CONSTRUCTION BEGINS OR SUPPLIES ARE DELIVERED.
2. ALL PERIMETER SILT FENCE AND OTHER INITIAL EROSION CONTROLS APPLICABLE ON THE SITE DRAWINGS SHALL BE IN PLACE BEFORE ANY OTHER EARTH MOVING ACTIVITIES COMMENCE.
3. POST ALL APPLICABLE SIGNS, INCLUDING THE NOTICE OF INTENT (NOI), AND HAVE THIS SWP3 WITH EROSION AND SEDIMENT CONTROL PLANS AT THE SITE FOR CONTINUAL USE AND MODIFICATION. POST "CONSTRUCTION SITE NOTICE" SIGN INCLUDING INFORMATION SUCH AS THE GENERAL CONTRACTOR NAME, GENERAL CONTRACTOR ADDRESS, GENERAL CONTRACTOR CONTACT/NUMBER, AND PROJECT NAME.
4. PHASING OF WORK TO ALLOW EXISTING VEGETATIVE AREAS OR BUFFERS TO REMAIN AS LONG AS POSSIBLE IS ENCOURAGED.
5. EROSION CONTROL DEVICES MUST BE INSPECTED ONCE EVERY 7 DAYS AND WITHIN 24 HOURS OF 0.5 INCHES OR GREATER RAINFALL. SEE PART III.C OF THE Kentucky DOW GENERAL CONSTRUCTION PERMIT FOR MORE INFORMATION. FOLLOWING EACH INSPECTION, A CHECKLIST MUST BE COMPLETED AND SIGNED BY THE QUALIFIED INSPECTION PERSONNEL REPRESENTATIVE. THE INSPECTION REPORT MUST INCLUDE AT A MINIMUM:
   - A) INSPECTION DATE
   - B) NAMES, TITLES AND QUALIFICATIONS OF INSPECTION PERSONNEL
   - C) WEATHER INFORMATION FOR THE PERIOD SINCE THE LAST INSPECTION (OR SINCE COMMENCEMENT OF CONSTRUCTION OF ACTIVITY IF 1ST INSPECTION).
   - D) WEATHER INFO AND A DESCRIPTION OF ANY DISCHARGES OCCURRING AT THE TIME OF INSPECTION
   - E) LOCATION(S) OF BMP'S THAT NEED TO BE MAINTAINED
   - F) LOCATION(S) OF BMP'S THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION
   - G) LOCATION(S) WHERE ADDITIONAL BMP'S ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION, AND,
   - H) CORRECTIVE ACTION REQUIRED INCLUDING ANY CHANGES TO THE SWP3 NECESSARY AND IMPLEMENTATION DATES. DOCUMENTS REGARDING THESE INSPECTIONS MUST BE KEPT AT THE SITE AND BE MADE AVAILABLE UPON REQUEST.
6. INSTALL ANY SEDIMENT TRAPS AND/OR BASINS PER THE SITE DRAWINGS, AS SOON AS POSSIBLE, DURING THE CLEARING AND EXCAVATION OF THE SITE. PROVIDE TEMPORARY GRADING TO DIRECT WATER TO TRAPS/BASINS.
7. ALL SILT FENCES MUST BE INSPECTED AND NEEDED REPAIRS IMPLEMENTED AFTER EVERY STORM EVENT. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN MATERIAL REACHES DEPTH OF ONE-THIRD (1/3) THE FENCE HEIGHT.
8. SEDIMENT TRAPS SHALL HAVE THE COLLECTED SEDIMENT REMOVED WHEN SEDIMENT HAS ACCUMULATED TO THE TOP OF THE SEDIMENT STORAGE ZONE (WHEN 40 PERCENT OF THE POND DEPTH HAS BEEN FILLED). THIS ELEVATION SHALL BE IDENTIFIED WITH BY THE TOP OF A STAKE LOCATED NEAR THE CENTER OF TRAP.
9. PERIODICALLY, THE STONE IN THE CONSTRUCTION ENTRANCE SHOULD BE RAKED TO INCREASE INFILTRATION AND FILTERING.
   ANY SEDIMENT REACHING A PUBLIC OR PRIVATE ROAD SHALL BE REMOVED. BULK CLEARING OF ACCUMULATED SEDIMENT BY FLUSHING THE AREA WITH WATER SHALL NOT BE PERMITTED. CLEARED SEDIMENT SHALL BE RETURNED TO THE POINT OF LIKELY ORIGIN OR OTHER APPROVED LOCATION BEFORE THE END OF EACH WORKDAY, EITHER BY SCRAPING OR SWEEPING.
   CONTINUE INSTALLING/MODIFYING EROSION CONTROLS AS THE CONSTRUCTION OF SITE UTILITIES, FOUNDATIONS, AND STRUCTURES CHANGE THE TOPOGRAPHY OF THE SITE.
10. THE GENERAL CONTRACTOR WILL KEEP WRITTEN DOCUMENTATION OF MAJOR EARTHMOVING ACTIVITIES USING A SITE LOG INDICATING START AND STOP DATES FOR DEFINED AREAS OF THE SITE. NOTE THESE AREAS ON THE SITE DRAWINGS WHEN POSSIBLE.
11. REMOVE TEMPORARY OR SEDIMENT CONTROL PRACTICES ONCE FINAL STABILIZATION/ VEGETATION HAS BEEN ESTABLISHED.
12. FILE THE APPROPRIATE NOTICE OF TERMINATION (NOT) WHEN THE ENTIRE PROJECT IS COMPLETE.
13. KEEP ALL SWPPP DOCUMENTS, INCLUDING INSPECTION CHECKLISTS, ON FILE FOR THREE YEARS FROM TERMINATION.



NOTE: CONTRACTOR SHALL ALSO CONSTRUCT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL DEVICES IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS.

SILT FENCE AND FILTER BARRIER PLACEMENT NOTES:

I. SHEET (OVERLAND) AND CHANNEL FLOW APPLICATIONS

1. THE HEIGHT OF THE FILTER BARRIER SHALL BE AT LEAST FIFTEEN (15) INCHES AND NO GREATER THAN EIGHTEEN (18) INCHES.
2. STANDARD STRENGTH FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL TO AVOID JOINTS.
3. STAKES FOR FILTER BARRIERS SHALL BE AT A MINIMUM OF ONE INCH BY TWO INCH (1" X 2") WOOD OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF THREE (3) FEET.
4. MAXIMUM STAKE SPACING SHALL BE THREE (3) FEET.
5. CONSTRUCT A FOUR INCH BY FOUR INCH (4" X 4") TRENCH ALONG THE LINE OF THE STAKES AND UPSLOPE FROM THE BARRIER.
6. THE FILTER MATERIAL IS EXTENDED INTO THE TRENCH.
7. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER MATERIAL.
8. IF A FILTER BARRIER IS TO BE CONSTRUCTED ACROSS A DITCH LINE OR SWALE, THE BARRIER SHALL BE OF SUFFICIENT LENGTH TO ELIMINATE END FLOW, AND THE PLAN CONFIGURATION SHALL RESEMBLE AN ARC OR HORSESHOE. PLACEMENT OF FILTER BARRIER SHALL FOLLOW THE CONTOUR.

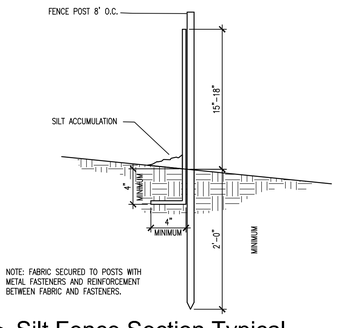
II. MAINTENANCE

1. FILTER BARRIERS SHALL BE INSPECTED AFTER EACH RAIN EVENT.
2. SEDIMENT REMOVAL SHALL OCCUR WHEN THE DEPOSITS REACH APPROXIMATELY ONE-THIRD THE HEIGHT OF THE BARRIER.
3. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED, AND SEEDED.

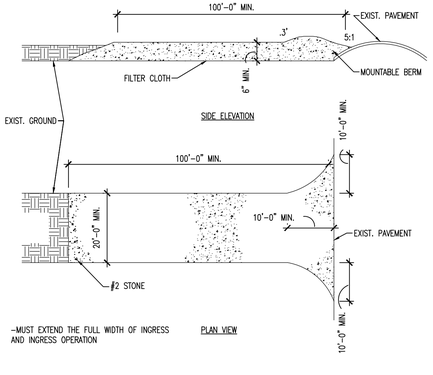
Pool Site Plan - Deck Layout & Materials

1"=10'-0"

A1 Silt Fence and Filter Barrier Placement
N.T.S.



B3 Silt Fence Section Typical
N.T.S.



A3 Stone Construction Entrance
N.T.S.

B4 Silt Fence Inlet Protection Detail
N.T.S.

BRANDSTETTER CARROLL INC
ARCHITECTS•ENGINEERS•PLANNERS
2360 Chauvin Drive, Lexington, KY 40517
p. 859.268.1933 www.brandstettercarroll.com

Lexington Cincinnati Cleveland Dallas Charleston

NOT FOR CONSTRUCTION

Revisions:
Issue Date: 07/17/2023

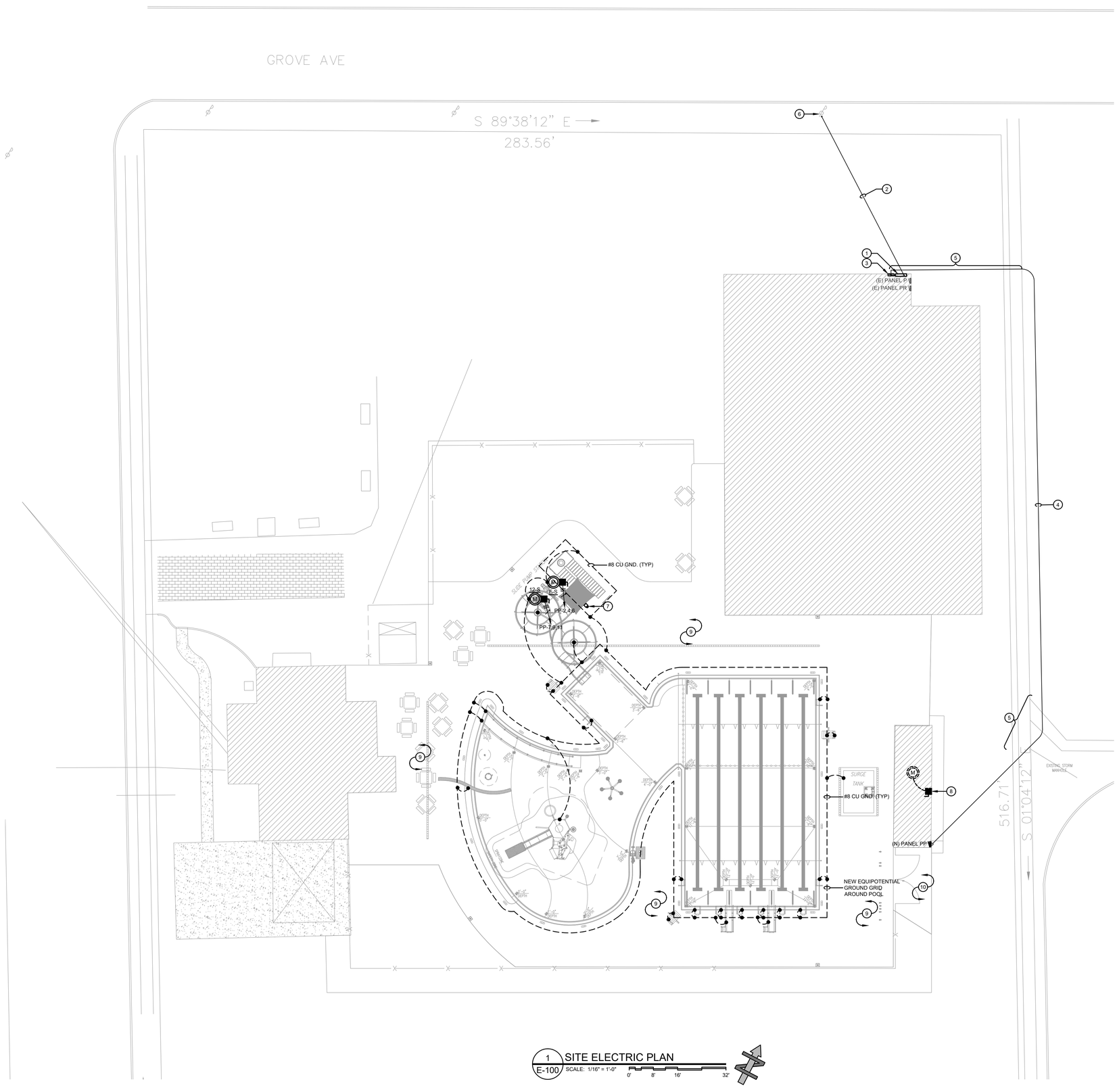
Bound Brook Pool Renovation

200 Thompson Avenue
Bound Brook, NJ 08805

S.W.P.P.P.

Project No.
21105

CP-100



1 E-100 SITE ELECTRIC PLAN
SCALE: 1/16" = 1'-0"
0' 8' 16' 32'

PLAN NOTES

1	UPGRADE/REPLACE EXISTING CT CABINET TO ACCEPT 800A RATED CURRENT TRANSFORMERS.
2	NEW 400A FEEDER TO BE INSTALLED IN EXISTING 4" CONDUIT. REFER TO SINGLE LINE DIAGRAM FOR MORE INFORMATION.
3	NEW 400A SERVICE ENTRANCE RATED DISCONNECT SWITCH. RELOCATE MISCELLANEOUS ELECTRIC DEVICES CURRENTLY AT THIS LOCATION.
4	NEW 400A FEEDER TO BE INSTALLED IN NEW 4" CONDUIT. REFER TO SINGLE LINE DIAGRAM FOR MORE INFORMATION.
5	PROVIDE ALL REQUIRED CUTTING AND PATCHING OF EXISTING HARD SURFACES AS NEEDED TO ACCOMMODATE NEW CONDUIT INSTALLATION.
6	EXISTING ELECTRIC UTILITY POLE WITH 400A SERVICE DROP SERVING EXISTING SERVICE. COORDINATE NEW PARALLEL 400A SERVICE DROP WITH LOCAL UTILITY. NOTE: EXISTING UTILITY TRANSFORMERS ARE LOCATED ON THE UTILITY POLE AT THE SOUTHWEST CORNER OF THOMPSON AND GROVE AVE.
7	ELECTRICAL CONTRACTOR TO PROVIDE SLIDE E-STOP BUTTON. E-STOP BUTTON SHALL BE INTERLOCKED WITH SLIDE PUMP MOTOR CONTROLLER. MOTOR TO DE-ENERGIZED UPON ACTIVATION OF E-STOP BUTTON.
8	DEMO EXISTING MOTOR STARTER AND WIRING TO EXISTING 25 HP MOTOR. SAVE MOTOR STARTER FOR REUSE. REFER TO E-101 FOR MORE INFORMATION.
9	ALL POOL GROUNDING TO BE IN ACCORDANCE WITH NEC ARTICLE 680. CONTRACTOR IS RESPONSIBLE TO BOND ALL METAL OBJECTS WITHIN THE PERIMETER OF EACH GROUND LOOP WHETHER SPECIFICALLY SHOWN OR NOT.
10	BOND GROUNDING CONDUCTOR TO GROUNDING LUG ON PUMP PACKAGE. TYPICAL OF ALL PUMPS.

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Lexington · Cincinnati · Cleveland · Dallas

Revisions:
Issue Date: 7/27/2023

Bound Brook Pool

Renovation Phase 1
200 Thomson Avenue
Bound Brook, NJ 08805

Site Electric Plan

Project No.
21105

E-100

Plotted 07/24/2023 12:44:29 PM

Electrical Panel Schedule PP

Volts	Phase	Wire	Panel Type	Ampacity Provided	Mount	AIC	Fed From
208/120	3Ø	4	Main Circuit Breaker	400 Amps	Surface	10,000	Svc Disc.

Circuit #	Breaker	Poles	Notes	Description	A	B	C	A	B	C	Description	Notes	Poles	Breaker	Circuit #
1	110	3		25 HP Main Pool Filter Pump	9,384			3,036			7.5 HP Slide Feature Pump F-S		3	50	2
3						9,384			3,036						4
5							9,384			3,036					6
7	90	3		15 HP Slide Pump 12-S	5,796			100			Time Clock		1	15	8
9						5,796			100		Time Clock		1	15	10
11							5,796			100	Time Clock		1	15	12
13	20	1		Sprinkler	150			100			Time Clock		1	15	14
15	30	2		Lights & Plugs		2,220			3,250		Future UV		2	40	16
17							2,220			3,250					18
19	15	1		Control Panel	200						Space				20
21	15	1		Spare							Space				22
23	15	1		Spare							Space				24
25	15	1		Spare							Space				26
27	20	1		Spare							Space				28
29	20	1		Spare							Space				30
31	20	1		Spare							Space				32
33				Space							Space				34
35				Space							Space				36
37				Space							Space				38
39				Space							Space				40
41				Space							Space				42

Total Connected Load Phase A:	18,766
Total Connected Load Phase B:	23,786
Total Connected Load Phase C:	23,786
Total Connected Load:	66,338 Watts

Load Description	Watts	Factor	Total
Receptacles < 10,000	1,440	100%	1,440
Receptacles > 10,000	0	50%	0
Lighting Loads	3,000	125%	3,750
Track Lighting	0Ft	75W/Ft	0
Motor Loads	26,496	100%	26,496
Largest Motor	28,152	125%	35,190
Cooling Loads	0	100%	0
Heating Loads	0	100%	0
Continuous Loads	7,100	125%	8,875
Non-Continuous Loads	150	100%	150
Kitchen Equipment Loads	0	100%	0
Existing Panel Demand		125%	0
Sub-Total:			75,901
Total Connected Ampacity:			210.68
Total Connected Load %:			53%

Notes:

AF	Arc Fault Circuit Interrupter
GF	Ground Fault Circuit Interrupter
LO	Lock Out Breaker
ST	Shunt Trip
PNF	Provide new fuse in slot
REF	Re-use existing spare fusible switch
EX	Blank loads on panel are unknown and shall be calculated under the existing panel demand (or existing building peak demand) category in the load calculations section. Engineer offers no warranty as to the condition or load information on unknown circuit breakers.

Panel Schedule Notes:

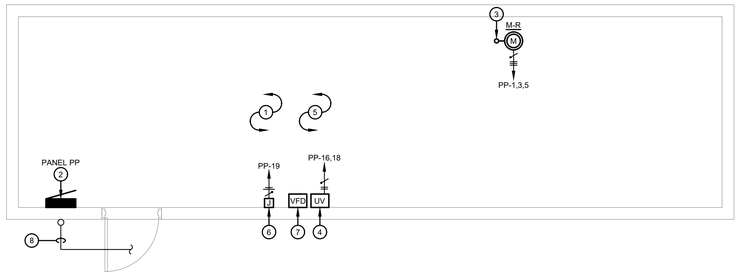
New circuit breakers added to existing panels shall match panel manufacturer, voltage level, and fault current rating of existing protectives.

Identify main disconnects and all up and downstream disconnecting means for all circuits at panel.

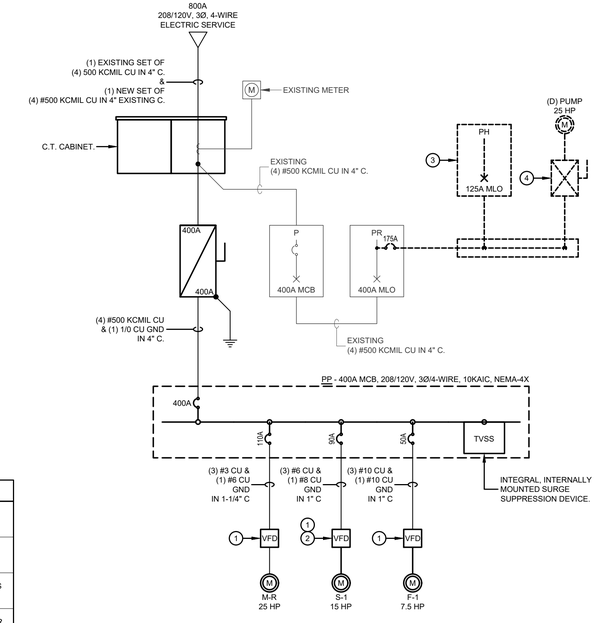
Fill out branch circuit directory indicating circuit numbers, area(s) served, and load type. Index shall be neatly typed. Branch circuit directories shall be updated or replaced in all areas of alterations.

Black laminated phenolic nameplates shall be provided on all new and existing panel boards secured by #8-32 screws, lock washers, and nuts on each corner of nameplate.

Contractor may arrange circuits to suit field conditions, but loading between phases shall be +/-1 10%.



1 E-101 POWER PLAN
SCALE: 1/4" = 1'-0"
0' 2' 4' 8'



2 E-101 SINGLE LINE RISER DIAGRAM
SCALE: NONE

SINGLE LINE PLAN NOTES

1	VFD PROVIDED BY OTHERS AND INSTALLED BY ELECTRICAL CONTRACTOR.
2	PROVIDE WITH REMOTE E-STOP LOCATED AT TOP OF SLIDE. PROVIDE ALL WIORING AND PROGRAMMING TO MAKE COMPLETE.
3	DEMOLISH EXISTING PANEL COMPLETE. SAVE ALL EXISTING BRANCH CIRCUITS AND REROUTE TO NEW PANEL PP. EXTEND ALL WIRING AS NEEDED.
4	REMOVE EXISTING MOTOR STARTER AND SAVE FOR REUSE. REFER TO POWER PLAN FOR NEW LOCATION.

GENERAL NOTES

1. ALL CONDUITS, CABLE ASSEMBLIES, RACEWAYS, FITTINGS AND BOXES SHALL BE PVC WITHIN FILTRATION BUILDING .

POWER PLAN NOTES

1	ALL ELECTRICAL EQUIPMENT AND ENCLOSURES SHALL BE NEMA 4X AND RATED FOR CORROSIVE ENVIRONMENT WITHIN FILTRATION ROOM.
2	REPLACE EXISTING PANEL WITH NEW 208/120V, 3Ø/4-WIRE, 400A PANEL. PROVIDE WITH NEW FEEDER BACK TO SERVICE ENTRANCE. REFER TO E-100 AND E-501 FOR MORE INFORMATION.
3	BRANCH CIRCUIT FOR PUMP SHALL BE INSTALLED IN CONDUIT UNDERSLAB AND TURNED UP AT A LOCATION PPROVED BY OWNER. TRANSITION TO SEAL-TIGHT CONDUIT FOR FINAL CONNECTION. REFER TO SINGLE LINE RISER DIAGRAM FOR WIRING INFORMATION.
4	UV CONTROLLER PROVIDED BY OTHERS AND INSTALLED BY ELECTRICAL CONTRACTOR.
5	CONTRACTOR SHALL PROVIDE ALL GROUNDING AND BONDING PER NEC 680. CAPTURE AND EXTEND EXISTING GROUNDING CONDUCTORS AS NEEDED TO ACCOMMODATE NEW PUMP LOCATION.
6	PROVIDE DEDICATED 20A CIRCUIT FOR PUMP CONTROL PANEL. COORDINATE EXACT LOCATION WITH DETAIL ON CP SERIES SHEETS.
7	VFD PROVIDED BY OTHERS AND INSTALLED BY ELECTRICAL CONTRACTOR. REFER TO CP-601 FOR SPECIFICATION.
8	EXTEND NEW FEEDER FROM EXISTING BUILDING ELECTRIC SERVICE. REFER TO E-100 AND SINGLE LINE DIAGRAM FOR MORE INFORMATION.

POWER PLAN SYMBOL LEGEND

J	JUNCTION BOX	M	3Ø MOTOR CONNECTION
	NON-FUSED DISCONNECT		FUSED DISCONNECT
A EXISTING / A NEW	FLUSH MOUNTED PANEL A = PANEL DESIGATION		
A EXISTING / A NEW	SURFACE MOUNTED PANEL A = PANEL DESIGATION		
	METER		
A-B	HOME RUN A = PANEL DESIGATION B = CIRCUIT NUMBER		

N = NEW E = EXISTING R = RELOCATED D = DEMO F = FUTURE
+0" = MOUNTING HEIGHT OF THE DEVICE ABOVE FINISHED FLOOR.

PROJECT GENERAL NOTES

1. THE DRAWINGS ARE DIAGRAMMATIC ONLY AND INDICATE THE GENERAL ARRANGEMENT OF THE SYSTEMS AND ARE TO BE FOLLOWED INSOFAR AS POSSIBLE. IF DEVIATIONS FROM THE LAYOUTS ARE NECESSITATED BY FIELD CONDITIONS, DETAILED LAYOUTS OF THE PROPOSED DEPARTURES SHALL BE SUBMITTED IN WRITING TO THE ENGINEER FOR REVIEW BEFORE PROCEEDING WITH THE WORK.
2. THE ELECTRICAL CONTRACTOR SHALL REVIEW ALL DRAWINGS IN DETAIL AS THEY MAY RELATE TO THEIR WORK.
3. EACH CONTRACTOR SHALL INSPECT THE SITE ON WHICH THE WORK IS TO BE PERFORMED, AND THE OBSTACLES THAT MAY BE ENCOUNTERED, AND ALL RELEVANT MATTERS CONCERNING THE WORK.
4. THE CONTRACTOR SHALL FILE ALL NECESSARY NOTICES, OBTAIN AND PAY FOR ALL PERMITS, FEES, AND OTHER COSTS INCLUDING UTILITY CONNECTIONS OR EXTENSION, IN CONNECTION WITH HIS WORK. AS NECESSARY, HE SHALL FILE ALL REQUIRED PLANS, PREPARE ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS OF ALL UTILITY AND GOVERNMENTAL DEPARTMENTS HAVING JURISDICTION.
5. IGNORANCE OF CODES, RULES, AND REGULATIONS, UTILITY COMPANY REQUIREMENTS, LAWS, ETC. SHALL NOT DIMINISH OR ABSOLVE CONTRACTOR'S RESPONSIBILITIES TO PROVIDE AND COMPLETE ALL WORK IN COMPLIANCE WITH SUCH.
6. ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE NEW JERSEY BUILDING CODES, NATIONAL FIRE CODES OF THE NATIONAL FIRE PROTECTION ASSOCIATION AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL AGENCIES OR DEPARTMENTS HAVING JURISDICTION.

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Bound Brook Pool

Renovation Phase 1
200 Thomson Avenue
Bound Brook, NJ 08805

Lighting and Power Plan

Project No. 21105

E-101