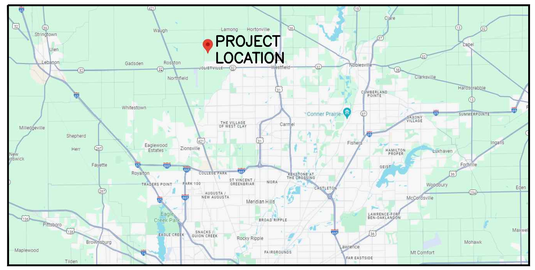
Swimming Pool and Pool House Addition:
4292 W. 186th Street
Sheridan, Indiana 46069

N



VICINITY MAP

LOCATION MAP

OVERALL PROPERTY SITE LAYOUT

OWNER INFORMATION

Alfredo Melendez
4292 W. 186th Street
Sheridan, Indiana 46069
PHONE: (317) 340-6819

PROPOSED PROJECTS ADDRESS

4292 W. 186th Street
Sheridan, Indiana 46069

ENGINEERING AND CERTIFICATION:

BAXTER ENGINEERING LLC.
570 Tracy Road, Suite 610
New Whiteland, IN 46184
Office: 317-535-3579
Cell: 317-509-4142
BaxterEngineeringllc@gmail.com

PLANS CERTIFIED BY:
TRENT A. BAXTER P.E.
REGISTERED P.E. No. 19700309
DATE: JULY 26, 2024

INDEX TO DRAWINGS

REVISION

VERSATILE CONSTRUCTION GROUP, LLC.
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TRENT A. BAXTER REGISTERED No. 19700309 STATE OF INDIANA PROFESSIONAL ENGINEER

Trent A. Baxter
CERTIFIED BY:

Swimming Pool and Pool House Addition
4292 W. 186th Street
Sheridan, Indiana

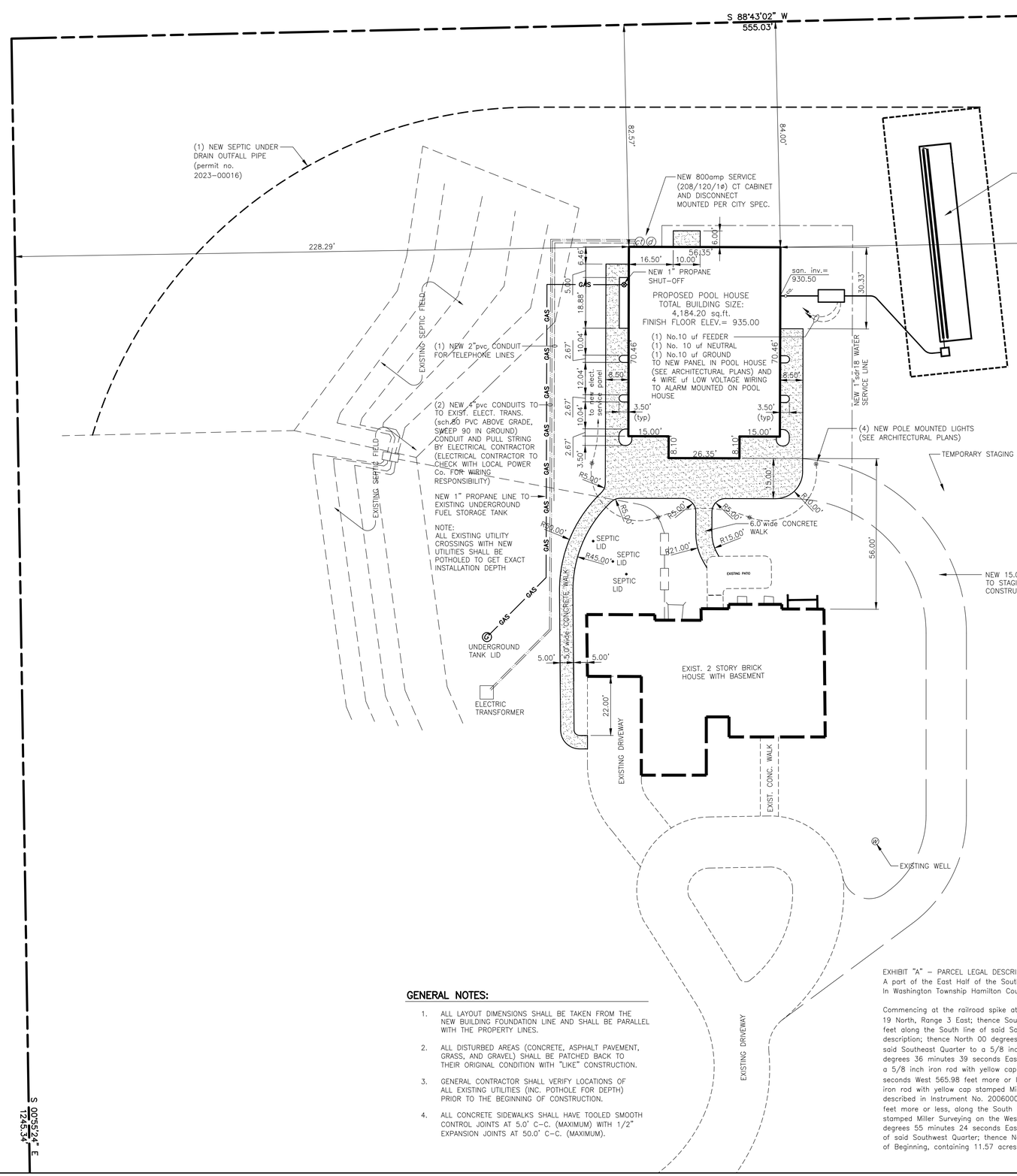
Title Sheet

Job No.	Date Stamped
22034	07/26/2024

Drawn By	Checked By	Scale:
caw	tab	1"= 1"

CAD FILE:
G:\22034\T100 title sheet.dwg

SHEET TITLE:
T100



GENERAL REQUIREMENTS:

1. GENERAL CONTRACTOR TO NOTIFY THE OWNER IN WRITING, DURING THE BIDDING PROCESS, OF ANY DISCREPENCIES FOUND IN THE PLANS OR SPECIFICATIONS.
2. GENERAL CONTRACTOR IS RESPONSIBLE FOR BALANCING THE SOILS ON SITE AND DISPOSING AF ANY EXTRA DIRT, CURBING, CONCRETE, ASPHALT OR MISCELLANEOUS MATERIALS NECESSARY TO COMPLETE THE PROJECT AS PER PLANS.
3. TEMPORARY POWER, LIGHT AND HEAT TO BE PAID BY CONTRACTOR.
4. IF POOR SOIL CONDITIONS ARE ENCOUNTERED DURING EXCAVATION FOR FOOTINGS, THE REQUIRED EXCAVATION SHALL BE UNDERMINED AND BACKFILLED WITH COMPACTED #53 STONE TO A DEPTH SUITABLE TO OBTAIN A MINIMUM SOIL BEARING PRESSURE OF 3000 PSF AT THE COST OF THE OWNER.
5. TOTAL PROJECT SUPERVISION.
6. DAILY PROJECT CLEAN-UP AND DISPOSAL BY EACH SUBCONTRACTOR.
7. FINAL PROJECT CLEAN-UP.
8. ALL WALL PENETRATIONS SHALL BE SEALED BY TRADE MAKING PENETRATION IN COMPLIANCE WITH BUILDING CODES AND TO SATISFACTION OF OWNER.
9. ALL WORK SHALL BE WARRANTED FOR A ONE (1) YEAR PERIOD FROM THE POSSESSION DATE.
10. ANY FINAL PUNCH LIST ITEMS SHALL BE TAKEN CARE OF WITHIN SEVENTY-TWO (72) HOURS.
11. ALL SUBS ARE TO REVIEW SPECIAL NOTES.
12. ALL SUBS ARE TO SUPPLY THEIR OWN STORAGE.
13. ALL WORK MUST COMPLY WITH ALL APPLICABLE GOVERNMENTAL AND/OR AGENCY REQUIREMENTS AND CODES INCLUDING, BUT NOT LIMITED TO, U.B.C., BOCA, OSHA, NFPA, ADA, ETC.
14. A SCHEDULE OF THE WORK REQUIRED AND A TIME TABLE FOR THE COMPLETION OF ALL ITEMS SHALL BE PROVIDED TO THE OWNER BEFORE WORK COMMENCES. ALL WORK MUST BE COMPLETED IN A PROFESSIONAL, WORKMANLIKE, AND TIMELY MANNER.
15. THE GENERAL CONTRACTOR SHALL PROVIDE THE OWNER WITH A NEATLY MARKED SET OF "AS BUILT" CONSTRUCTION DOCUMENTS ALONG WITH A LIST OF ALL SUBCONTRACTORS AND WARRANTIES WITHIN (30) DAYS OF COMPLETION OF CONSTRUCITON.
16. A VALID CERTIFICATE OF OCCUPANCY SHALL BE PRESENTED TO THE OWNER PRIOR TO ACCEPTANCE OF COMPLETION OF GENERAL CONTRACTOR WORK.
17. THE PROJECT DRAWINGS AND SPECIFACATIONS ARE A SET AND ARE INTENDED TO COMPLEMENT EACHOTHER. IF THERE IS A CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS, THE MOST STRINGENT REQUIREMENT SHALL TAKE PRECEDENCE.
18. GENERAL CONTRACTOR TO PROVIDE A "TURN-KEY" BUILDING PER PLANS AND SPECIFICATIONS.
19. SUBMITTALS:

    Work Submittals: The provisions of this section apply to required submittals related to units of work not to administrative submittals including payment requests, insurance certificates and progress reports.

    Special Project Warranties: 2 executed copies, plus conformed copies as required in maintenance manuals.
20. MAINTENANCE MANUALS:

    Two (2) bound copies.

    Record Drawings: Original maintained mark-up prints, plus two (2) photographic copies which may, at Contractor's option, be reduced to not less than half size (50% reduction of width and length).

GENERAL NOTES:

1. ALL LAYOUT DIMENSIONS SHALL BE TAKEN FROM THE NEW BUILDING FOUNDATION LINE AND SHALL BE PARALLEL WITH THE PROPERTY LINES.
2. ALL DISTURBED AREAS (CONCRETE, ASPHALT PAVEMENT, GRASS, AND GRAVEL) SHALL BE PATCHED BACK TO THEIR ORIGINAL CONDITION WITH "LIKE" CONSTRUCTION.
3. GENERAL CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UTILITIES (INC. POTHOLE FOR DEPTH) PRIOR TO THE BEGINNING OF CONSTRUCTION.
4. ALL CONCRETE SIDEWALKS SHALL HAVE TOOLED SMOOTH CONTROL JOINTS AT 5.0' C-C. (MAXIMUM) WITH 1/2" EXPANSION JOINTS AT 50.0' C-C. (MAXIMUM).

CONCRETE WALK INFORMATION:

HATCH INDICATES:
4" CONCRETE SIDEWALK WITH
6x6-10x10 W.W.F. OVER
4" COMPACTED GRANULAR FILL ON
COMPACTED SUB-GRADE
TOTAL AREA: 2,925.00 sq.ft.

EXHIBIT "A" - PARCEL LEGAL DESCRIPTION:
A part of the East Half of the Southwest Quarter of Section 30, Township 19 North, Range 3 East located In Washington Township Hamilton County, Indiana, described as follows:

Commencing at the railroad spike at the Southeast comer of the Southwest Quarter of Section 30, Township 19 North, Range 3 East; thence South 88 degrees 36 minutes 39 seconds West (assumed bearing) 1046.76 feet along the South line of said Southeast Quarter to a mag nail at the Point of Beginning of this description; thence North 00 degrees 56 minutes 36 seconds West 678.32 feet parallel with the East line of said Southeast Quarter to a 5/8 inch iron with yellow cap stamped Miller Surveying; thence North 88 degrees 36 minutes 39 seconds East 276.14 feet parallel with the South line of said Southeast Quarter to a 5/8 inch iron rod with yellow cap stamped Miller Surveying; thence North 00 degrees, 56 minutes 36 seconds West 565.98 feet more or less parallel with the East line of said Southeast Quarter to a 5/8 inch iron rod with yellow cap stamped Miller Surveying on the South line of a 23-acre tract of real estate described in Instrument No. 200600044692; thence South 88 degrees 43 minutes 02 seconds West 555.03 feet more or less, along the South line of said 23-acre tract to a 5/8 inch iron rod with yellow cap stamped Miller Surveying on the West line of the East Half of said Southwest Quarter; thence South 00 degrees 55 minutes 24 seconds East 1245.34 feet to a mag nail at the Southwest corner of the East Half of said Southwest Quarter; thence North 88 degrees 36 minutes 39 seconds East 279.33 feet to the Point of Beginning, containing 11.57 acres, more or less.

ELECTRICAL NOTE:

TOP OF ALL NEW ELECTRICAL SERVICE CONDUITS SHALL BE INSTALLED AT A MINIMUM OF 36" BELOW FINISH GRADE.

SITE LAYOUT AND UTILITY PLAN
SCALE: 1"= 20.0'

UTILITY DISCLAIMER

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Trent A Baxter
CERTIFIED BY:

Swimming Pool and Pool House Addition
4292 W. 186th Street
Sheridan, Indiana

Site Layout and Utility Plan

Job No.	Date Stamped
22034	07/26/2024

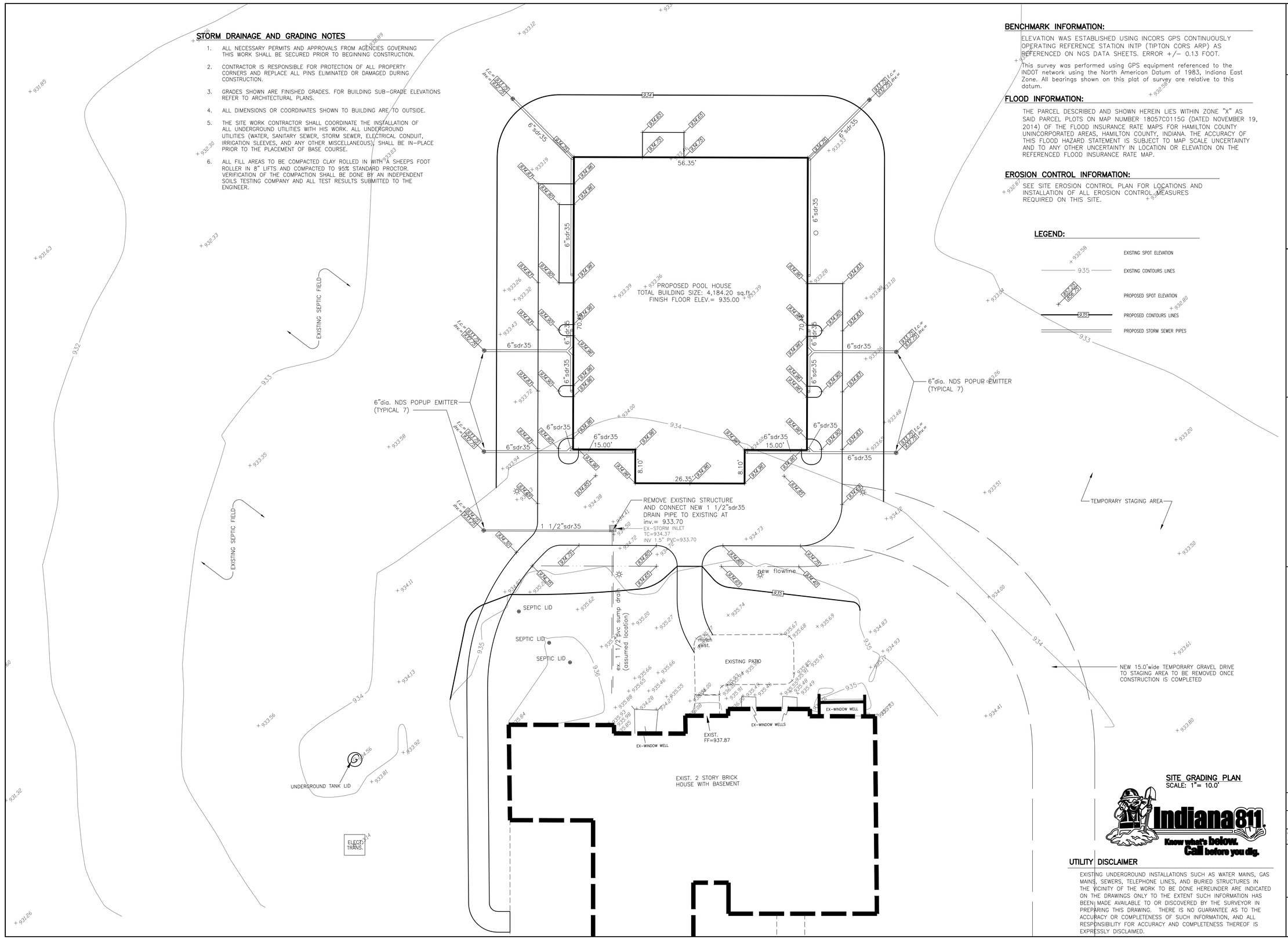
Drawn By	Checked By	Scale:
cow	tab	1"= 20.0'

CAD FILE:
G:\22034\c100 site layout - utility plan.dwg

SHEET TITLE:
C100

STORM DRAINAGE AND GRADING NOTES

1. ALL NECESSARY PERMITS AND APPROVALS FROM AGENCIES GOVERNING THIS WORK SHALL BE SECURED PRIOR TO BEGINNING CONSTRUCTION.
2. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS AND REPLACE ALL PINS ELIMINATED OR DAMAGED DURING CONSTRUCTION.
3. GRADES SHOWN ARE FINISHED GRADES. FOR BUILDING SUB-GRADE ELEVATIONS REFER TO ARCHITECTURAL PLANS.
4. ALL DIMENSIONS OR COORDINATES SHOWN TO BUILDING ARE TO OUTSIDE.
5. THE SITE WORK CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL UNDERGROUND UTILITIES WITH HIS WORK. ALL UNDERGROUND UTILITIES (WATER, SANITARY SEWER, STORM SEWER, ELECTRICAL CONDUIT, IRRIGATION SLEEVES, AND ANY OTHER MISCELLANEOUS), SHALL BE IN-PLACE PRIOR TO THE PLACEMENT OF BASE COURSE.
6. ALL FILL AREAS TO BE COMPACTED CLAY ROLLED IN WITH A SHEEPS FOOT ROLLER IN 8" LIFTS AND COMPACTED TO 95% STANDARD PROCTOR. VERIFICATION OF THE COMPACTION SHALL BE DONE BY AN INDEPENDENT SOILS TESTING COMPANY AND ALL TEST RESULTS SUBMITTED TO THE ENGINEER.



BENCHMARK INFORMATION:

ELEVATION WAS ESTABLISHED USING INCORS GPS CONTINUOUSLY OPERATING REFERENCE STATION INTP (TIPTON CORS ARP) AS REFERENCED ON NGS DATA SHEETS. ERROR +/- 0.13 FOOT.

This survey was performed using GPS equipment referenced to the INDOT network using the North American Datum of 1983, Indiana East Zone. All bearings shown on this plat of survey are relative to this datum.

FLOOD INFORMATION:

THE PARCEL DESCRIBED AND SHOWN HEREIN LIES WITHIN ZONE "X" AS SAID PARCEL PLOTS ON MAP NUMBER 18057C0115G (DATED NOVEMBER 19, 2014) OF THE FLOOD INSURANCE RATE MAPS FOR HAMILTON COUNTY UNINCORPORATED AREAS, HAMILTON COUNTY, INDIANA. THE ACCURACY OF THIS FLOOD HAZARD STATEMENT IS SUBJECT TO MAP SCALE UNCERTAINTY AND TO ANY OTHER UNCERTAINTY IN LOCATION OR ELEVATION ON THE REFERENCED FLOOD INSURANCE RATE MAP.

EROSION CONTROL INFORMATION:

SEE SITE EROSION CONTROL PLAN FOR LOCATIONS AND INSTALLATION OF ALL EROSION CONTROL MEASURES REQUIRED ON THIS SITE.

LEGEND:

- EXISTING SPOT ELEVATION
- EXISTING CONTOURS LINES
- PROPOSED SPOT ELEVATION
- PROPOSED CONTOURS LINES
- PROPOSED STORM SEWER PIPES

SITE GRADING PLAN
SCALE: 1"= 10.0'

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UTILITY DISCLAIMER

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Trent A Baxter

CERTIFIED BY:

Swimming Pool and Pool House Addition
4292 W. 186th Street
Sheridan, Indiana

Site Grading Plan

Job No.	Date Stamped
22034	07/26/2024

Drawn By	Checked By	Scale:
caw	tab	1"= 10.0'

CAD FILE:
G:\22034\c200 site grading plan.dwg

SHEET TITLE:

C200

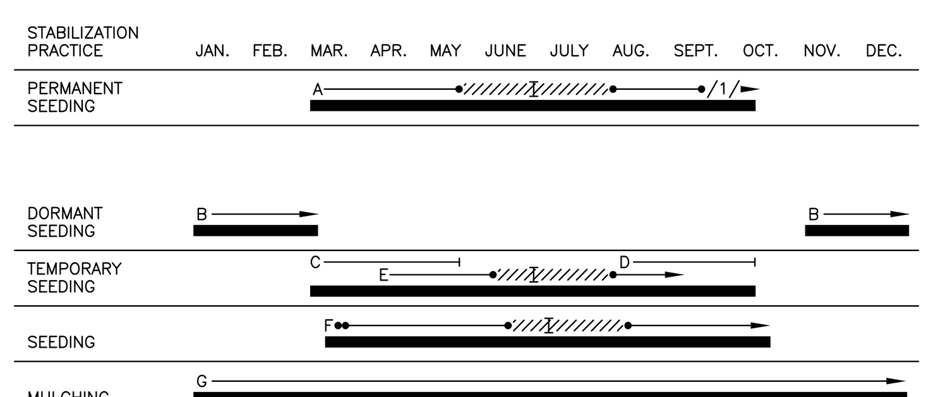
PLANTING SPECIFICATIONS:

1. ALL PLANT MATERIALS SHALL CONFORM TO THE STANDARDS SET FORTH IN THE CURRENT EDITION OF THE AMERICAN STANDARDS NURSERY STOCK OF NURSERYMEN. PLANTS SHALL BE TYPICAL OF SPECIES AND VARIETY, AND HAVE NORMAL, WELL-DEVELOPED BRANCHING STRUCTURE AND VIGOROUS FIBROUS ROOT SYSTEM.
2. PLANTS SHALL BE HEALTHY, VIGOROUS PLANTS FREE FROM INSECTS AND DISEASE. TRUNK AND STEMS SHALL BE FIRM WITH NO INDICATION OF FUNGUS CANKERS OR GALLS, INSECT BORERS, DIEBACK, FRONT CRACKS, OR OTHER DEFECTS.
3. ALL PLANTS SHALL BE COMMERCIALLY GROWN AND NO PLANTS FROM THE WILD SHALL BE ACCEPTABLE WITHOUT SPECIFIC APPROVAL FROM THE DIVISION OF BUILDING INSPECTION.
4. TREES SHALL NOT BE ACCEPTABLE IF THEIR CENTRAL LEADER HAS BEEN CUT OR IS DAMAGED SO THAT CUTTING IS NECESSARY.
5. PLANTS SHALL NOT BE PRUNED PRIOR TO INSTALLATION. ANY NECESSARY PRUNING SHALL BE DONE IMMEDIATELY AFTER THE TIME OF INSTALLATION.
6. PLANT HEIGHT SHALL BE MEASURED BEFORE PRUNING WITH BRANCHES IN A NORMAL POSITION. NO PLANT SHALL BE PRUNED BACK TO SUCH AN EXTENT THAT IT NO LONGER MEETS THE REQUIRED SIZE SPECIFICATIONS.
7. ALL DECIDUOUS AND EVERGREEN TREES SHALL BE BALLED AND BURLAPPED. NO BARE ROOT TREES SHALL BE ACCEPTABLE.
8. THE MINIMUM SIZE OF BALLS, BALL DEPTHS, AND BALL DIAMETERS SHALL BE IN ACCORDANCE WITH RECOMMENDED BALLING AND BURLAPPING SPECIFICATIONS AS SET FORTH IN THE CURRENT EDITION OF THE AMERICAN STANDARDS OF NURSERY STOCK.
9. ALL BALLED AND BURLAPPED PLANTS WHICH CANNOT BE PLANTED IMMEDIATELY SHALL BE SEALED IN AND PROTECTED WITH BURLAP OR OTHER ACCEPTED MATERIAL.
10. IDEAL TREES SELECTED FOR THIS PROJECT HAVE A STRAIGHT TRUNK, ROUNDED OR OVAL FORM, AND SYMMETRICAL BRANCHING PATTERN.
11. ALL TREES AND SHRUBS SHOWN ON THIS DRAWING SHALL BE PLACED IN A MANNER TO ALLOW FOR AMPLE ROOM TO DEVELOP.
12. IF WORK IS REQUIRED WITHIN THE EASEMENTS CAUSING REMOVAL OR DAMAGE OF LANDSCAPE MATERIALS, THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR REPLACEMENT OF MATERIALS ACCORDING TO THE APPROVED LANDSCAPE PLAN.
13. INSTALLATION OF A WEED BARRIER IS REQUIRED IN ALL MULCHED/ LANDSCAPED AREAS.

Seasonal Soil Protection Chart

TABLE "A"

SEASONAL SOIL PROTECTION CHART



A= KENTUCKY BLUEGRASS 40 LBS/ACRE; CREEPING RED FESCUE 40 LBS/ACRE; PLUS 2 TONS STRAW MULCH/ACRE, OR ADD ANNUAL RYEGRASS 20 LBS/ACRE.

B= KENTUCKY BLUEGRASS 60 LBS/ACRE; CREEPING RED FESCUE 60 LBS/ACRE; PLUS 2 TONS STRAW MULCH/ACRE, OR ADD ANNUAL RYEGRASS 30 LBS/ACRE.

C= SPRING OATS 3BUSHEL/ACRE.

D= WHEAT OR RYE 2 BUSHEL/ACRE.

E= ANNUAL RYEGRASS 40 LBS/ACRE. (1 LB/1,000 S.F.)

F= SOD.

G= STRAW MULCH 2 TONS/ACRE.

•/1/• = IRRIGATION NEEDED DURING JUNE, JULY AND / OR SEPT.

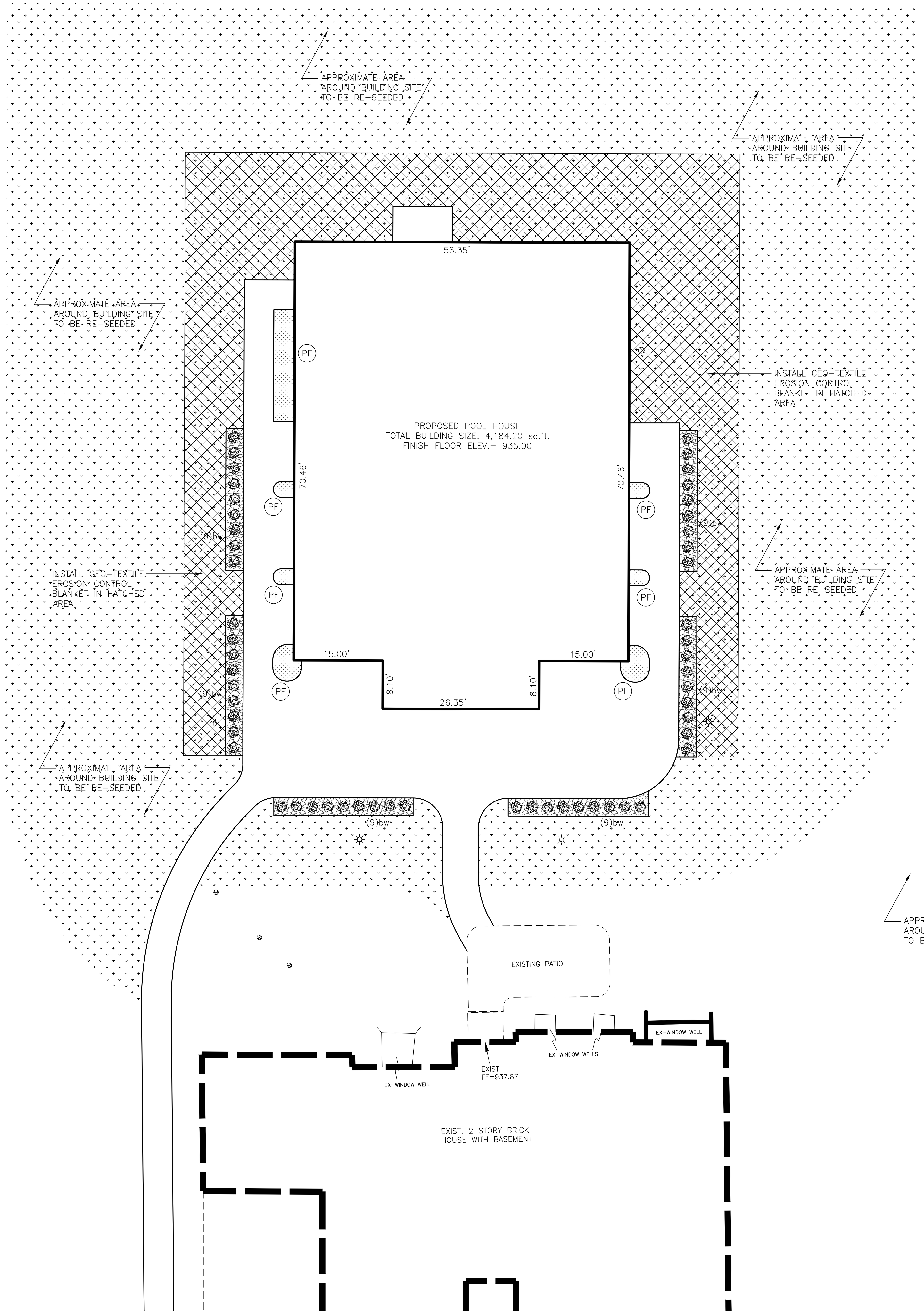
•• = IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD.

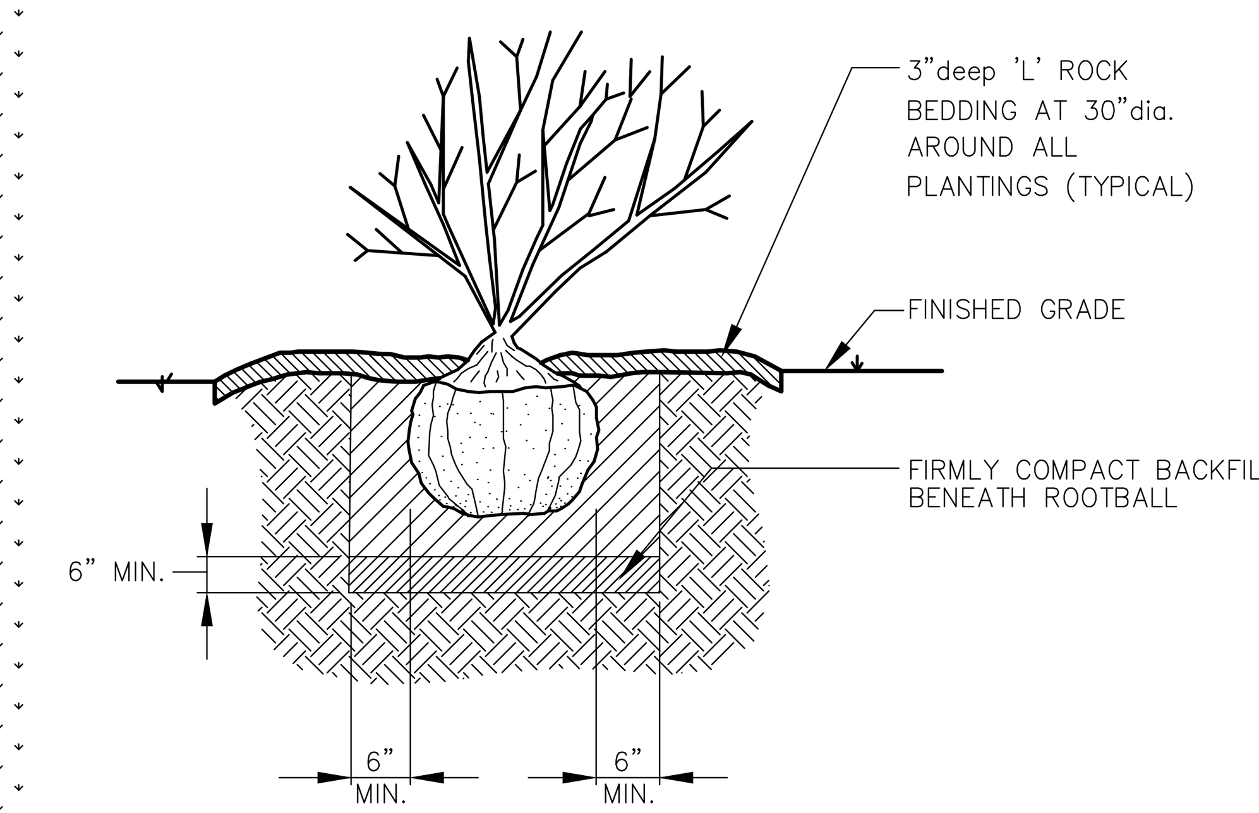
Landscaping Notes

1. All plant materials to meet minimum standards set by American Association of Nurserymen, latest published addition of American Standard for Nursery Stock.
2. All areas disturbed by construction and not otherwise paved or landscaped and all lawn areas shall be seeded with straw as specified.
3. All lawn areas to be raked smooth, fertilized and watered prior to seeding.

% of mix.	Name of grass	Application
39.86%	Falcon IV tall fescue	1.5 #/1,000 sq.ft.
29.80%	Scorpion II tall fescue	1.5 #/1,000 sq.ft.
29.60%	Six point tall fescue	1.5 #/1,000 sq.ft.
00.72%	Inert	1.5 #/1,000 sq.ft.
00.02%	Other weeds	1.5 #/1,000 sq.ft.

4. Planting soil for tree and shrub pits to be backfilled with the soil that was removed from the planting pit.





SHRUB PLANTING NOTES:

1. GROUND LINE TO BE THE SAME AS NURSERY. ROOTBALL RAISED 1 1/2" ABOVE FIN. GRADE TO ALLOW FOR SETTLING.
2. CONSTRUCT 3"deep 'L' ROCK RING AROUND ALL TREES & SHRUBS. FLOOD TWICE W/ IN 24 HRS.
3. CUT AND REMOVE BURLAP FROM TOP OF ROOTBALL.

SHRUB PLANTING DETAIL
NO SCALE

LANDSCAPE LEGEND:

Symbol	Description
(*)bw	EVERGREEN SHRUB: BOTANICAL NAME: Buxus sinica var. insularis 'Wintergreen' COMMON NAME: Wintergreen Boxwood HEIGHT AT PLANTING: 12"-15" (MIN) QUANTITY: 54 (MATURE HT.= 24"to 30"tall)
PF	SYMBOL INDICATES: PERENNIAL FLOWERS OF A MIXED VERITY IN PLANTING AREA
	HATCH INDICATES: ROUGH AREAS OF LAWN TO BE RE-SEEDED
	HATCH INDICATES: AREAS OF MULCH
	HATCH INDICATES: AREAS LANDSCAPE STONE WITH METAL EDGING

NOTE:
ALL DISTURBED AREAS (OVER THIS ENTIRE PROJECT DEVELOPMENT – SHOWN OR NOT) SHALL BE RE-SEEDED TO LIKE NEW CONDITION. (INCLUDING, BUT NOT LIMITED TO, ALL UTILITY AND STORM PIPING AREAS AND TEMPORARY GRAVEL DRIVE AND STAGING AREAS NOT SHOWN) TOTAL APPROXIMATE SEEDING AREA ESTIMATED TO BE 17,500sq.ft.

SITE LANDSCAPING PLAN
SCALE: 1"= 10.0'

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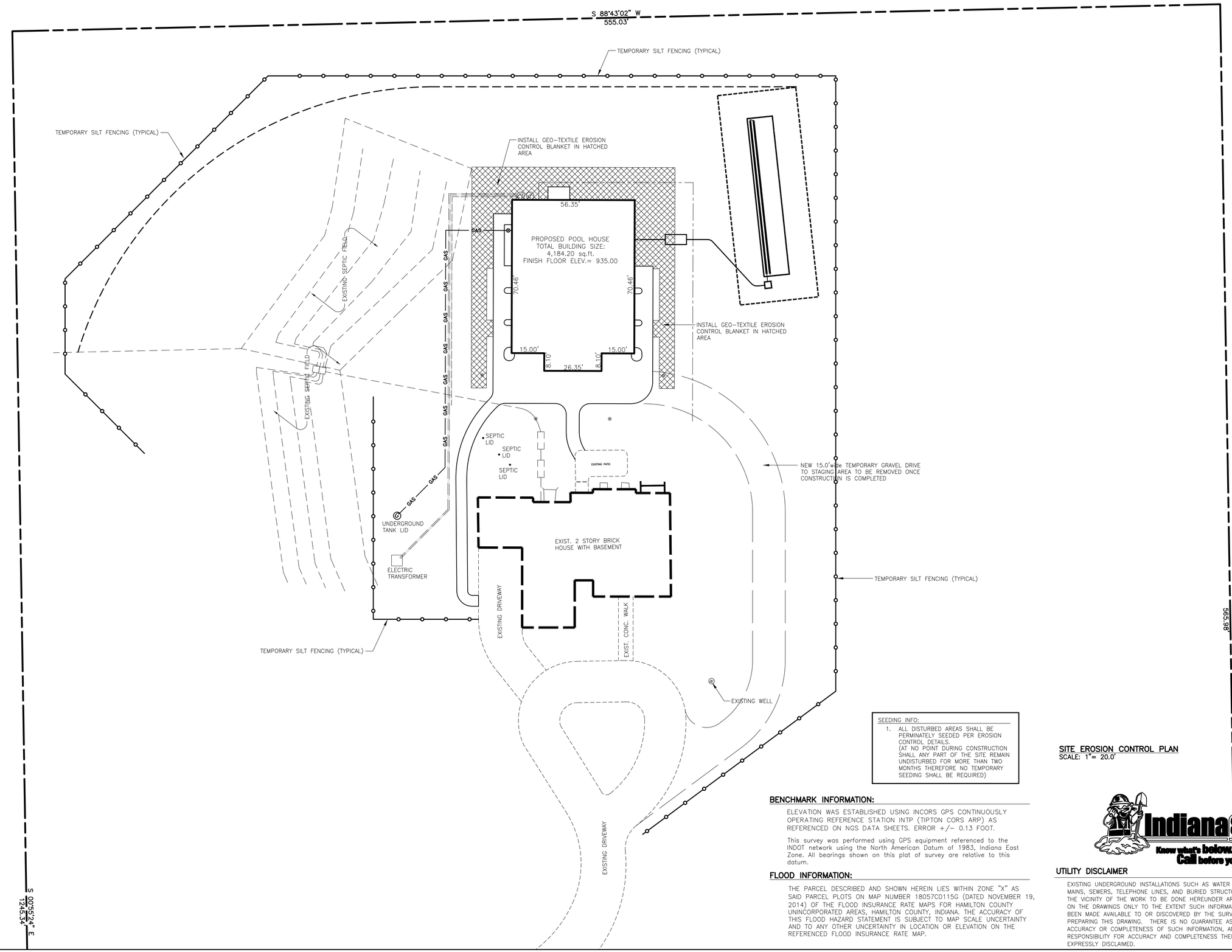
Site Landscaping Plan

Job No.	Date Stamped	
22034	07/26/2024	
Drawn By	Checked By	Scale:
caw	tab	1"= 10.0'

CAD FILE:
G:\22034\c300 site landscaping plan.dwg

SHEET TITLE:

C300



SEEDING INFO:

1. ALL DISTURBED AREAS SHALL BE PERMINATELY SEEDED PER EROSION CONTROL DETAILS. (AT NO POINT DURING CONSTRUCTION SHALL ANY PART OF THE SITE REMAIN UNDISTURBED FOR MORE THAN TWO MONTHS THEREFORE NO TEMPORARY SEEDING SHALL BE REQUIRED)

SITE EROSION CONTROL PLAN
SCALE: 1"= 20.0'

BENCHMARK INFORMATION:

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CERTIFIED BY:

Swimming Pool and Pool House Addition
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Sheridan, Indiana

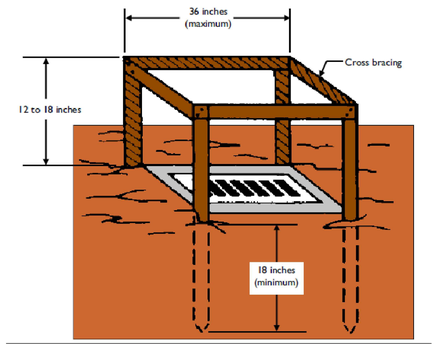
Site Erosion Control Plan

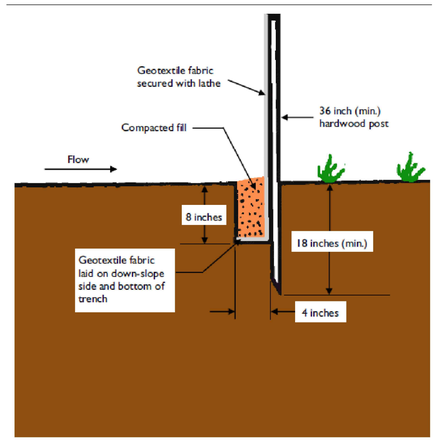
Job No.	Date Stamped
22034	07/26/2024

Drawn By	Checked By	Scale:
caw	tab	1"= 20.0'

CAD FILE:
G:\22034\c400 site erosion control plan.dwg

SHEET TITLE:
C400





SILT FENCE

MATERIALS

1. Fabric – woven or non–woven geotextile fabric meeting specified minimums outlined in Table 2.
   a. Height – a minimum of 18 inches above ground level (30 inches maximum).
   b. Reinforcement – fabric securely fastened to posts with wood lathe.
2. Support Posts
   a. 2 x 2 inch hardwood posts. Steel fence posts may be substituted for hardwood posts (steel posts should have projections for fastening fabric).
   b. Spacing – Eight feet maximum if fence is supported by wire mesh fencing. Six feet maximum for extra–strength fabric without wire backing.

Table 1. Slope Steepness Restrictions

Percent Slope		Maximum Distance
< 2%	< 50:1	100 feet
2% – 5%	50:1 to 20:1	75 feet
5% – 10%[1]	20:1 to 10:1	50 feet
10% – 20%[1]	10:1 to 5:1	25 feet
> 20%[1]	> 5:1	15 feet

[1] Consider other alternatives.

Note: Multiple rows of silt fence are not recommended on the same slope.

Table 2. Geotextile Fabric Specifications for Silt Fence (minimum)

Physical Property	Woven Geotextile Fabric	Non-Woven Geotextile Fabric
Filtering efficiency	85%	85%
Textile strength at 20% elongation Standard strength Extra strength	 30 lbs. per linear inch 50 lbs. per linear inch	 50 lbs. per linear inch 70 lbs. per linear inch
Slurry flow rate	0.3 gal./min./square feet	4.5 gal./min./square feet
Water flow rate	15 gal./min./square feet	220 gal./min./square feet
UV resistance	70%	85%
Post spacing	7 feet	5 feet

Note: Silt fences can be purchased commercially.

INSTALLATION

Prefabricated silt fence (see Exhibits 1, 2, and 3)

1. Lay out the location of the fence so that it is parallel to the contour of the slope and at least 10 feet beyond the toe of the slope to provide a sediment storage area. Turn the ends of the fence up slope such that the point of contact between the ground and the bottom of the fence end terminates at a higher elevation than the top of the fence at its lowest point (see Exhibit 1).
2. Excavate an eight–inch deep by four–inch wide trench along the entire length of the fence line (see Exhibit 2). Installation by plowing is also acceptable.
3. Install the silt fence with the filter fabric located on the up–slope side of the excavated trench and the support posts on the down–slope side of the trench.
4. Drive the support posts at least 18 inches into the ground, tightly stretching the fabric between the posts as each is driven into the soil. A minimum of 12 inches of the filter fabric should extend into the trench. (If it is necessary to join the ends of two fences, use the wrap joint method shown in Exhibit 3.)
5. Lay the lower four inches of filter fabric on the bottom of the trench and extend it toward the up–slope side of the trench.
6. Backfill the trench with soil material and compact it in place.

Note: If the silt fence is being constructed on–site, attach the filter fabric to the support posts (refer to Tables 1 and 2 for spacing and geotextile specifications) and attach wooden lathe to secure the fabric to the posts. Allow for at least 12 inches of fabric below ground level. Complete the silt fence installation, following steps 1 through 6 above.

Exhibit 1

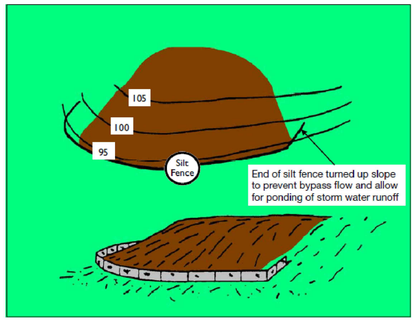


Exhibit 2

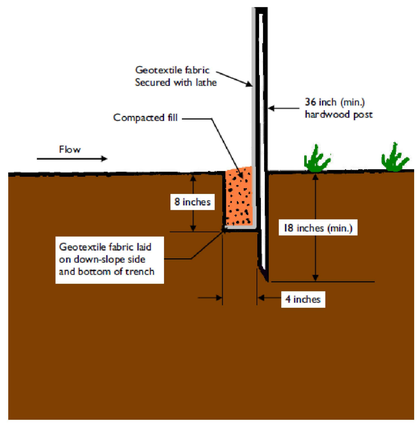
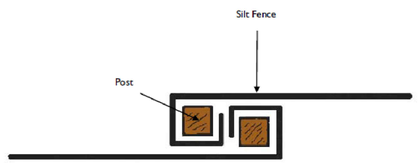


Exhibit 3



PERMANENT SEEDING

MATERIALS

1. Soil Amendments – (contact your county soil and water conservation district or cooperative extension office for assistance and soil information, including available soil testing services) or 400 to 600 pounds of 12–0–12 analysis fertilizer, or equivalent. Consider the use of reduced phosphorus application where soil tests indicate adequate phosphorous levels in the soil profile.
2. Seed – Select appropriate plant species seed or seed mixtures on the basis of quick germination, growth, and time of year to be seeded (see Table 1).
3. Mulch –
   a. Straw, hay, wood fiber, etc. (to protect seedbed, retain moisture, and encourage plant growth).
   b. Anchored to prevent removal by wind or water or covered with manufactured erosion control blankets.

SITE PREPARATION

1. Grade the site to achieve positive drainage.
2. Add topsoil (see Topsoil Salvage and Utilization Sheet C510) or mulch (see Mulching Sheet C520) to achieve needed depth for establishment of vegetation. (Compost material may be added to improve soil moisture holding capacity, soil friability, and nutrient availability.)

SEEDBED PREPARATION

1. Test soil to determine pH and nutrient levels.
2. Apply soil amendments as recommended by the soil test and work into the upper two to four inches of soil. If testing is not done, apply 400 to 600 pounds per acre of 12–0–12 analysis fertilizer, or equivalent.
3. Till the soil to obtain a uniform seedbed. Use a disk or rake, operated across the slope, to work the soil amendments into the upper two to four inches of the soil.
3. Mulch all seeded areas (see Mulching Sheet C520)

SEEDING

Optimum seeding dates are March 1 to May 10 and August 10 to September 30. Permanent seeding done between May 10 and August 10 may need to be irrigated. Seeding outside of beyond optimum seeding dates is still possible with the understanding that reseeding or overseeding may be required if adequate surface cover is not achieved. Reseeding or overseeding can be easily accomplished if the soil surface remains well protected with mulch.

1. Select a seeding mixture and rate from Table 1. Select seed mixture based on site conditions, soil pH, intended land use, and expected level of maintenance.
2. Apply seed uniformly with a drill or cultipacker seeder or by broadcasting. Plant or cover the seed to a depth of one–fourth to one–half inch. If drilling or broadcasting the seed, ensure good seed–to–soil contact by firming the seedbed with a roller or cultipacker after completing seeding operations. (If seeding is done with a hydroseeder fertilizer and mulch can be applied with the seed in a slurry mixture.) and use appropriate methods to anchor the mulch in place. Consider using erosion control blankets on sloping areas and conveyance channels (see Erosion Control Blanket Sheet 520).

Table 1. Permanent Seeding Recommendations

This table provides several seed mixture options. Additional seed mixtures are available commercially. When selecting a mixture, consider intended land use and site conditions, including soil properties (e.g., soil pH and drainage), slope aspect, and the tolerance of each species to shade and drought.

Open Low-Maintenance Areas (remaining idle more than six months)

Seed Mixtures	Rate per Acre Pure Live Seed	Optimum Soil pH
1. Perennial ryegrass - white clover[1]	70 lbs. 2 lbs.	5.6 to 7.0
2. Perennial ryegrass - tall fescue[2]	70 lbs. 50 lbs.	5.6 to 7.0
3. Tall fescue[2] - white clover[1]	70 lbs. 2 lbs.	5.5 to 7.5

Steep Banks and Cuts, Low-Maintenance Areas (not mowed)

Seed Mixtures	Rate per Acre Pure Live Seed	Optimum Soil pH
1. Smooth brome grass - red clover[1]	35 lbs. 20 lbs.	5.5 to 7.0
2. Tall fescue[2] - white clover[1]	50 lbs. 2 lbs.	5.5 to 7.5
3. Tall fescue[2] - red clover[1]	50 lbs. 20 lbs.	5.5 to 7.5
4. Orchard grass - red clover[1] - white clover[1]	30 lbs. 20 lbs. 2 lbs.	5.6 to 7.0
5. Crownvetch[1] - tall fescue[2]	12 lbs. 30 lbs.	5.6 to 7.0

Lawns and High-Maintenance Areas

Seed Mixtures	Rate per Acre Pure Live Seed	Optimum Soil pH
1. Bluegrass	140 lbs.	5.5 to 7.0
2. Perennial ryegrass (turf type)	60 lbs. 90 lbs.	5.6 to 7.0
3. Tall fescue (turf type)[2] - bluegrass	170 lbs. 30 lbs.	5.6 to 7.5

Channels and Areas of Concentrated Flow

Seed Mixtures	Rate per Acre Pure Live Seed	Optimum Soil pH
1. Perennial ryegrass - white[1]	150 lbs. 2 lbs.	5.5 to 7.0
2. Kentucky bluegrass - smooth bromegrass - switchgrass - timothy - perennial ryegrass - white clover[2]	20 lbs. 10 lbs. 3 lbs. 4 lbs. 10 lbs. 2 lbs.	5.5 to 7.5
3. Tall fescue[1] - white clover[2]	150 lbs. 2 lbs.	5.5 to 7.5
4. Tall fescue[2] - perennial ryegrass - Kentucky bluegrass	150 lbs. 20 lbs. 20 lbs.	5.5 to 7.5

Notes:
1. An oat or wheat companion or nurse crop may be used with any of the above permanent seeding mixtures, at the following rates:
   (a) spring oats – one–fourth to three–fourths bushel per acre
   (b) wheat – no more than one–half bushel per acre
2. A high potential for fertilizer, seed, and mulch to wash exists on steep banks, cuts, and in channels and areas of concentrated flow.

PERMANENT SEEDING DATES

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Non–irrigated(1)												
Irrigated												
Dormant(2)												

▨ IRRIGATION NEEDED THIS PERIOD. TO CONTROL EROSION AT TIMES OTHER THAN IN THE SHADED AREA USE MULCH

(1) LATE SUMMER SEEDING DATES MAY BE EXTENDED 5 DAYS IF MULCH IS APPLIED

(2) INCREASE SEEDING APPLICATION BY 50%

REVISION

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TRENT A. BAXTER REGISTERED No. 19700309 STATE OF INDIANA PROFESSIONAL ENGINEER

Trent A Baxter

CERTIFIED BY:

Swimming Pool and Pool House Addition
4292 W. 186th Street
Sheridan, Indiana

Site Erosion Control Details

Job No. 22034 | Date Stamped 07/26/2024
Drawn By caw | Checked By tab | Scale:

CAD FILE: G:\22034\c400 site erosion control plan.dwg

SHEET TITLE:

C410