

			P	R						2	0	
							S	SHE	ET	IN	DEX	X
- 4 (D4					SHEE C1 C201 &	T NO. 01 & C202	SHEE SITE F SEPTI	ET NO. PLAN & D C SYSTE	ETAILS M DETA	ILS	
S 4	OC 04	A:	TE 12	S,) 33	IN(82-8	C.	30					
				1							PROFILE STAT	S. ANA 8283 E OF ANA L











YNUM FANYO & ASSOCIATES, INC. 1,500 GAL SEPTIC TANK (ACTUAL CAP. = 1,505 GAL.) NOT TO SCALE

BAFFLE

GEI	
610	EXISTING GRADE CONTOUR
x x	EXISTING FENCE
B	SOIL SAMPLE LOCATION AND LETTER DESIGNATION (SAMPLE DATE: 4/18/24)
<u> </u>	PROPOSED GRADE CONTOUR
XXX.XX	PROPOSED SPOT GRADE ELEVATION
——— FL> ———	PROPOSED FLOWLINE
ELEC	ELECTRIC SUPPLY ROUTE FROM BUILDING TO REMOTE ALARM PANEL
S4	PROPOSED 4" SDR 35 PVC (ASTM-D 3034-08) GRAVITY SEWER PIPE
SF	PROPOSED SILT FENCE
w	PROPOSED PRIVATE PRESSURE WATERLINE BY OTHERS
C.O.	PROPOSED CLEAN-OUT
INV.	PROPOSED PIPE INVERT
(MS)	MULCH SEEDING



NOTE TO CONTRACTOR

CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS & DEPTHS AND NOTIFY ENGINEER OF ANY INACCURACIES IN LOCATION OR ELEVATION OR ANY CONFLICTS PRIOR TO & AFTER ANY EXCAVATION. NO PAYMENT SHALL BE MADE TO CONTRACTOR FOR UTILITY DESTRUCTION OR UNDERGROUND CHANGES REQUIRED DUE TO CONFLICTING ELEVATIONS.



designed by: $\ensuremath{\mathsf{JBT}}$

drawn by: **JBT**

checked by: **JSF**

sheet no: C101

project no.: **402353**







COMPACTION REMEDIATION NOTES

I. Identify the Boundaries of Soil Compaction / Evaluate Site

- II. Remediation by Subsoiling:
- A. At the time of subsoiling and/or chisel plowing the soil shall be dry enough that its plastic limit will not be exceeded.
- to the slope and its second pass along the contours of the site.
- compaction, plowing with a chisel plow is not necessary.
- III. Evaluate After Remediation
- subsoiling and before chisel plowing to ensure that compaction has been amended.
- contours of the site at a depth of approximately 7-8 inches.
- deeper than the greatest depth of previously identified compaction. E. Clod size must average less than 4 inches or 100 mm for the compacted soil to be considered amended.

GENERAL SEPTIC SYSTEM NOTES

USELESS AND POSSIBLY RESULT IN REVOCATION OF THE CONSTRUCTION PERMIT.

CONSTRUCTION TO ARRANGE A PRE-CONSTRUCTION MEETING AT THE SITE.

5. ALL PERMITS ARE TO BE OBTAINED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.

PAY ALL COSTS IN CONNECTION WITH ALTERATION OF OR RELOCATION OF THE FACILITY.

CONTROL POINTS SHALL BE PRESERVED AT ALL TIMES DURING THE COURSE OF CONSTRUCTION.

- 8. NEW CONTOURS SHOWN ARE TOP OF TOPSOIL IN AREAS TO BE SEEDED.
- 10. PRESBY BRAND ADVANCED ENIRO-SEPTIC PIPES SHALL BE INSTALLED LEVEL ALONG THEIR LENGTH.

GROUND SURFACE.



MS	Р	PRA(ERMAN
REQUIREMENTS	Site and seedb Plant Species:	ed preparation Selected on

C, and D)

Selected or the state, time of year, Exhibit 3.12–C). Mulch: Clean grain, straw,

encourage plant growth. removal by wind or water APPLICATION Permanently seed all final grad

(Exhibit 3.12-B, erosion control structures, e additional work is not schedul

SITE PREPARATION: 1. Install practices needed prior to seeding. diversions, sediment tra

(Practices 3.21, 3.22, 3.7

2. Grade the site and fil 3. Add topsoil to achieve (Practice 3.02).

SEEDBED PREPARATION:

1. Test soil to determine pH or Cooperative Extension

including available soil test 2. If soil pH is unsuitable

according to test recor 3. Fertilize as recommende

consider applying 400equivalent, fertilizer. 4. Till the soil to obtain

SEEDING: Optimum seeding dates are Mo

seeding done between May an alternative, use temporary for permanent seeding.

1. Select a seeding mixtur conditions, soil pH, i maintenance.

- 2. Apply seed uniformly 3.12-D) or by broadcas
- 3. If drilling or broadcas cultipacker
- 4. Mulch all seeded areas blankets on sloping area with a hydroseeder

- + perennial ryegrass + white or ladino clov
- 3. Perennial ryegrass + prarie switch grass 4. Prarie switch grass

1 Smooth bromearage t red claumst

+ ladino clover* -5. Crownvetch*

- (Recommended earth of US LAWNS AND HIGH MAINTEN 1. Bluegrass 2. Perennial ryegrass (turf-
- + bluegrass 3. Prarie switch grass(tur + bluegrass
- CHANNELS AND AREAS OF 1. Perennial ryegrass
- + white or ladino clover* 2. Kentucky bluegrass
- + switchgrass + timothy
- + perennial ryegrass + white or ladino clover* 3. Prarie switch grass
- + ladino or white clover* 4. Prarie switch grass + Perennial ryegrass
- + Kentucky bluegrass

NOTE: An oat or wheat companion or nurse crop may be used with any of the above permanent seeding mixtures. If so, it is best to seed during the fall seeding period, especially after Sept. 15, and at the following rates: spring oats—1.4 to 3/4 bu./acre; wheat—no more than 1/2 bu./acre.

- plant base.)
 - recommendations. over- or re-seeding, and mulching.

 - re-preparing the seedbed.
 - office for assistance.)
 - according to soil test recommendations.

PRACTICE 3.12 PERMANENT SEEDING	SF	PRACTICE 3.74 SILT FENCE (SEDIMENT FENCE)	
 e and seedbed preparation: Graded, and lime and fertilizer applied. int Species: Selected on the basis of soil type, soil pH, region of the state, time of year, and planned use of the area to be seeded (see Exhibit 3.12-C). Ich: Clean grain, straw, hay, wood, fibre, etc., to protect seedbed and encourage plant growth. The mulch may need to be anchored to reduce removal by wind or water, or erosion control blankets may be considered. 	PURPOSE	To retain sediment from small, sloping disturbed areas by reducing the velocity of sheet flow. (NOTE: Silt fence captures sediment by ponding water to allow deposition, not by filtration. Although the practice usually works best in conjunction with temporary basins, traps, or diversions, it can be sufficiently effective to be used alone. A silt fence is not recommended for use as a diversion; nor is it to be used across a stream, channel or anywhere that concentrated flow is anticipated.)	
 manently seed all final grade areas (e.g., landscape berms, drainage swales, osion control structures, etc.) as each is completed and all areas where ditional work is not scheduled for a period of more than a year. E PREPARATION: Install practices needed to control erosion, sedimentation, and runoff prior to seeding. These include temporary and permanent diversions, sediment traps and basins, silt fences, and straw bale dams (Practices 3.21, 3.22, 3.72, 3.73, 3.74, and 3.75). Grade the site and fill in depressions that can collect water. Add topsoil to achieve needed depth for establishment of vegetation (Practice 3.02). EDED PREPARATION: Test soil to determine pH and nutrient levels. (Contact your county SWDC or Cooperative Extension office for assistance and soils information, including available soil testing services.) If soil pH is unsuitable for the species to be seeded, apply lime according to test recommendations. Fertilize as recommended by the soil test. If testing was not done, consider applying 400–600 lbs./acre of 12–12–12 analysis, or equivalent, fertilizer. Till the soil to obtain a uniform seedbed, working the fertilizer and lime into the soil 2–4 in. deep with a disk or rake operated across the slope (Exhibit 3.12–B). EDNC: timum seeding dates are Mar. 1–May 10 and Aug. 10–Sept. 30. Permanent eding done between May 10 and Aug. 10 may need to be irrigated. As alternative, use temporary seeding (Practice 3.11) until the preferred date permanent seeding. Select a seeding mixture and rate from Exhibit 3.12–C, based on site conditions, soil pH, intended land use, and expected level of maintenance. Apply seed uniformly with a drill or cultipacker–seeder (Exhibit 3.12–D) or by broadcasting, and cover to a depth of 1/4–1/2 in. If drilling or broadcasting, and cover to a depth of 1/4–1/2 in. If drilling or broadcasting, and cover to a depth of 1/4–1/2 in. If drilling or broadcasting, firm the seedbed with	REQUIREMENTS (Exhibit 3.74–B and C)	Drainage Area: Limited to 1/4 acre per 100 ft. of fence; further restricted by slope steepness (see Exhibit 3.74–B). Location: Fence nearly level, approximately following the land contour, and at least 10 ft. from toe of slope to provide a broad, shallow sediment pool Trench: 8 in minimum depth, flat-bottom or v-shaped, filled with compacted soil or gravel to bury lower portion of support wire and/or fence fabric. Support posts: 2 x 2-in. hardwood posts (if used) or steel fence posts set at least 1 ft. deep.* (Steel posts should projections for fastening fabric). Spacing of posts: 8 ft. maximum if fence supported by wire, 6 ft. for extra-strength fabric without wire backing. Fence height: High enough so depth of impounded water does not exceed 1 1/2 ft. at any point along fence line. Support wire (optional): 14 gauge, 6 in. wire fence (needed if using standard-strength fabric). Fence fabric: Woven or non-woven geotexhile fabric with specified filtering efficiency and tensile strength (see Exhibit 3.74–C) and containing UV inhibitors and stabilizers to ensure 6-mominimum life at temperatures 0'-120F. * Some commercial silt fences come ready to install, with support posts attached and requiring now wire support. Exhibit 3.74–C. Specifications Minimums for Silt Fence Fabric. Physical Property Woven Fabric Non-woven fabric Filtering efficiency 85% 85% Tensile strength at 20% elongation: Standard strength 50lbs./linear in. 50lbs./lin	
Exhibit 5.12–C. Permanent Seeang Recommendations This table provides several seeding options. Additional seed species and mixtures are available commercially. When selecting a mixture, consider site conditions, including soil properties (e.g., soil pH and drainage), slope aspect and the tolerance of each species to shade and droughtiness. Seed species and mixtures Rate per acre Optimum soil pH OPEN AND DISTURBED AREAS (REMAINING IDLE MORE THAN 1 YR.) 1. Perennial ryegrass 35 to 50 lbs. 5.6 to 7.0 + white or ladino clover* 1 to 2 lbs. 2. Kentucky bluegrass 1 to 2 lbs. Ste to 30 lbs. + switchgrass 1 to 2 lbs. Ste to 30 lbs. + white or ladino clover* 1 to 2 lbs. STEEP BANKS AND CUTS, LOW MAINTENANCE AREAS (NOT MOWED) Colspan="2">Colspan="2"Colspan="2"Colspan="2" <td c<="" td=""><td>INSTALLATION</td><td> SITE PREPARATION: Plan for the fence to be at least 10 ft. from the toe of the slope to provide a sediment storage area. Provide access to the area if sediment cleanout will be needed. SUTET CONSTRUCTION (OPTIONAL) Determine the appropriate location for a reinforced, stabilized bypass flow outlet. Set the outlet elevation so that water depth cannot exceed 1 1/2 ft. at the lowest point along the fence line. Locate the outlet weir support posts no more than 4 ft. apart, and instal a horizontal brace between them. (Weir height should be no more than 1 ft and water depth no more than 1 1/2 ft. anywhere else along the fence. Excavate the foundation for the outlet splash pad to minims of 1 ft. deep 5 ft. wide and 5 ft. long on level grade Fill the excavated foundation with INDOT CA No. 1 stone, being careful that the finished surface blends with the surrounding area, allowing no overfall. Stabilize the area around the pad. OUTLET CONSTRUCTION (OPTIONAL) Along the entire intended fence line, dig an 8 in. deep flat-bottomed or V-shaped trench. On the downslope side of the trench, drive the wood or steel support posts at least 1 ft. into the ground, spacing them no more than 8 ft. apart if if the fence is supported by wire or 6 ft. if extra strength fabric is used without support wire. Adjust spacing, if necessary, to ensure that posts are set at the low points along the fence line. (NOTE: If the fence has pre-attached posts or stakes, drive them deep enough so the fabric is satisfactory in the trench. Fasten support wire fence to the upslope side of the posts, extending it E in. into the trench. Run a continuous length of geotextile fabric in front of the support wire and posts avoiding joints, particularly at low points in the fence line. If a joint is necessary, nail the overlap to the nearest post with a lath. Place the bottom 1 ft. of fabric</td></td>	<td>INSTALLATION</td> <td> SITE PREPARATION: Plan for the fence to be at least 10 ft. from the toe of the slope to provide a sediment storage area. Provide access to the area if sediment cleanout will be needed. SUTET CONSTRUCTION (OPTIONAL) Determine the appropriate location for a reinforced, stabilized bypass flow outlet. Set the outlet elevation so that water depth cannot exceed 1 1/2 ft. at the lowest point along the fence line. Locate the outlet weir support posts no more than 4 ft. apart, and instal a horizontal brace between them. (Weir height should be no more than 1 ft and water depth no more than 1 1/2 ft. anywhere else along the fence. Excavate the foundation for the outlet splash pad to minims of 1 ft. deep 5 ft. wide and 5 ft. long on level grade Fill the excavated foundation with INDOT CA No. 1 stone, being careful that the finished surface blends with the surrounding area, allowing no overfall. Stabilize the area around the pad. OUTLET CONSTRUCTION (OPTIONAL) Along the entire intended fence line, dig an 8 in. deep flat-bottomed or V-shaped trench. On the downslope side of the trench, drive the wood or steel support posts at least 1 ft. into the ground, spacing them no more than 8 ft. apart if if the fence is supported by wire or 6 ft. if extra strength fabric is used without support wire. Adjust spacing, if necessary, to ensure that posts are set at the low points along the fence line. (NOTE: If the fence has pre-attached posts or stakes, drive them deep enough so the fabric is satisfactory in the trench. Fasten support wire fence to the upslope side of the posts, extending it E in. into the trench. Run a continuous length of geotextile fabric in front of the support wire and posts avoiding joints, particularly at low points in the fence line. If a joint is necessary, nail the overlap to the nearest post with a lath. Place the bottom 1 ft. of fabric</td>	INSTALLATION	 SITE PREPARATION: Plan for the fence to be at least 10 ft. from the toe of the slope to provide a sediment storage area. Provide access to the area if sediment cleanout will be needed. SUTET CONSTRUCTION (OPTIONAL) Determine the appropriate location for a reinforced, stabilized bypass flow outlet. Set the outlet elevation so that water depth cannot exceed 1 1/2 ft. at the lowest point along the fence line. Locate the outlet weir support posts no more than 4 ft. apart, and instal a horizontal brace between them. (Weir height should be no more than 1 ft and water depth no more than 1 1/2 ft. anywhere else along the fence. Excavate the foundation for the outlet splash pad to minims of 1 ft. deep 5 ft. wide and 5 ft. long on level grade Fill the excavated foundation with INDOT CA No. 1 stone, being careful that the finished surface blends with the surrounding area, allowing no overfall. Stabilize the area around the pad. OUTLET CONSTRUCTION (OPTIONAL) Along the entire intended fence line, dig an 8 in. deep flat-bottomed or V-shaped trench. On the downslope side of the trench, drive the wood or steel support posts at least 1 ft. into the ground, spacing them no more than 8 ft. apart if if the fence is supported by wire or 6 ft. if extra strength fabric is used without support wire. Adjust spacing, if necessary, to ensure that posts are set at the low points along the fence line. (NOTE: If the fence has pre-attached posts or stakes, drive them deep enough so the fabric is satisfactory in the trench. Fasten support wire fence to the upslope side of the posts, extending it E in. into the trench. Run a continuous length of geotextile fabric in front of the support wire and posts avoiding joints, particularly at low points in the fence line. If a joint is necessary, nail the overlap to the nearest post with a lath. Place the bottom 1 ft. of fabric
+ bluegrass 20 to 30 lbs.		Compacted Soil Post 18" deep (min.)	

5.6 to 7.0 100 to 150 lbs. 1 to 2 lbs. 5.5 to 7.5 20 lbs. 3 lbs. 4 lbs. 10 lbs. 1 to 2 lbs. 5.5 to 7.5 100 to 150 lbs. 1 to 2 lbs. 5.5 to 7.5 100 to 150 lbs. 15 to 20 lbs. 15 to 20 lbs.

* For best results: (a) legume seed should be inoculated; (b) seeding mixtures containing legumes should preferably be spring-seeded, although the grass may be fall-seeded and the legume frost-seeded (Practice 3.13); and (c) if legumes are fall—seeded, do so in early

MAINTENANCE * Inspect periodically, especially after storm events, until the stand is vigorous dark green or bluish-green seedlings; uniform density with nurse plants, legumes, and grasses well inter-mixed; green leaves; and the perennials remaining green throughout the summer, at least at the

> * Plan to add fertilizer the following growing season according to soil test * Repair damaged, bare or sparse areas by filling any gullies, re-fertilizing,

> * If plant cover is sparse or patchy, review the plant materials chosen, soil fertility, moisture condition, and mulching; then repair the affected area either by over-seeding or by re-seeding and mulching after

> * If vegetation fails to grow, consider soil testing to determine acidity or nutrient deficiency problems. (Contact your SWCD or Cooperative Extension

> * If additional fertilization is needed to get a satisfactory stand, do so

.74 ENT FENCE)

Physical Property	Woven Fabric	Non-woven fabric
Filtering efficiency	85%	85%
20% elongation:		
Standard strength	30lbs./linear in.	50lbs./linear in.
Extra strength	50lbs./linear in.	70lbs./linear in.
Slurry flow rate	0.3 gal./min./sg.ft.	4.5 gal./min./sg.ft
Water flow rate	15 gal. /min./sg.ft.	220 gal./min./sq.f
UV resistance	70% ' '	85% (

- reinforced, stabilized bypass flow lepth cannot exceed 1 1/2 ft. at
- nore than 4 ft. apart, and install eight should be no more than 1 ft. . anywhere else along the fence.) plash pad to minims of 1 ft. deep,
- CA No. 1 stone, being careful that unding area, allowing no overfall.
- the wood or steel support posts hem no more than 8 ft. apart if . if extra strength fabric is used cessary, to ensure that posts are (NOTE: If the fence has preenough so the fabric is satisfactory
- side of the posts, extending it 8 bric in front of the support wire t low points in the fence line.
- to the nearest post with a lath. e 8 in. deep trench, extending the
- or gravel. silt fence rather than constructing nstructions.



Point "A" should Be higher than ELEVATION PLAN VIEW

successfully established. (Characteristics of a successful stand include: MAINTENANCE * Inspect the silt fence periodically and after each storm event. * If fence fabric tears, starts to decompose or in any way becomes ineffective, replace the affected portion immediately. * Remove deposited sediment when it reaches half the height of the fence at its lowest point or is causing the fabric to bulge.

* Take care to avoid undermining the fence during clean out. * After the contributing area has been stabilized, remove the fence and sediment deposits, bring the disturbed area to grade, and stabilize.

evisions **REVISION NOS. 1A-16 DATED** 1A 7.24.24. SEE SHEET C101 FOR LISTING. <u><</u>Ш 5 <u>a</u> 22 0 EYS No. (60018283) STATE OF NDIANA JONAL ENGIN V ∞ \mathbf{O} 3 \mathfrak{O} _ Ľ \mathbf{Q} 3 tO Т С С П ΔF \overline{O} 4 \mathbf{O} ΖŇ RO O (\mathcal{O}) F U F ШΔ 14 S S PIKE IDIANA PR 26 FIRE S Z ЩŽ. <u>M</u>O CHAME ら Ш 女 00H ōZШ ШО й О И ωO 40 tle: SEPTIC SYSTEM DETAILS CONTINUED designed by: **JBT** drawn by: **JBT** checked by: **JSF** sheet no: C202

project no.: **402353**

CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS & DEPTHS AND NOTIFY ENGINEER OF ANY INACCURACIES IN LOCATION OR ELEVATION OR ANY CONFLICTS PRIOR TO & AFTER ANY EXCAVATION. NO PAYMENT SHALL BE MADE TO CONTRACTOR FOR UTILITY DESTRUCTION OR UNDERGROUND CHANGES REQUIRED DUE TO CONFLICTING ELEVATIONS.

NOTE TO CONTRACTOR