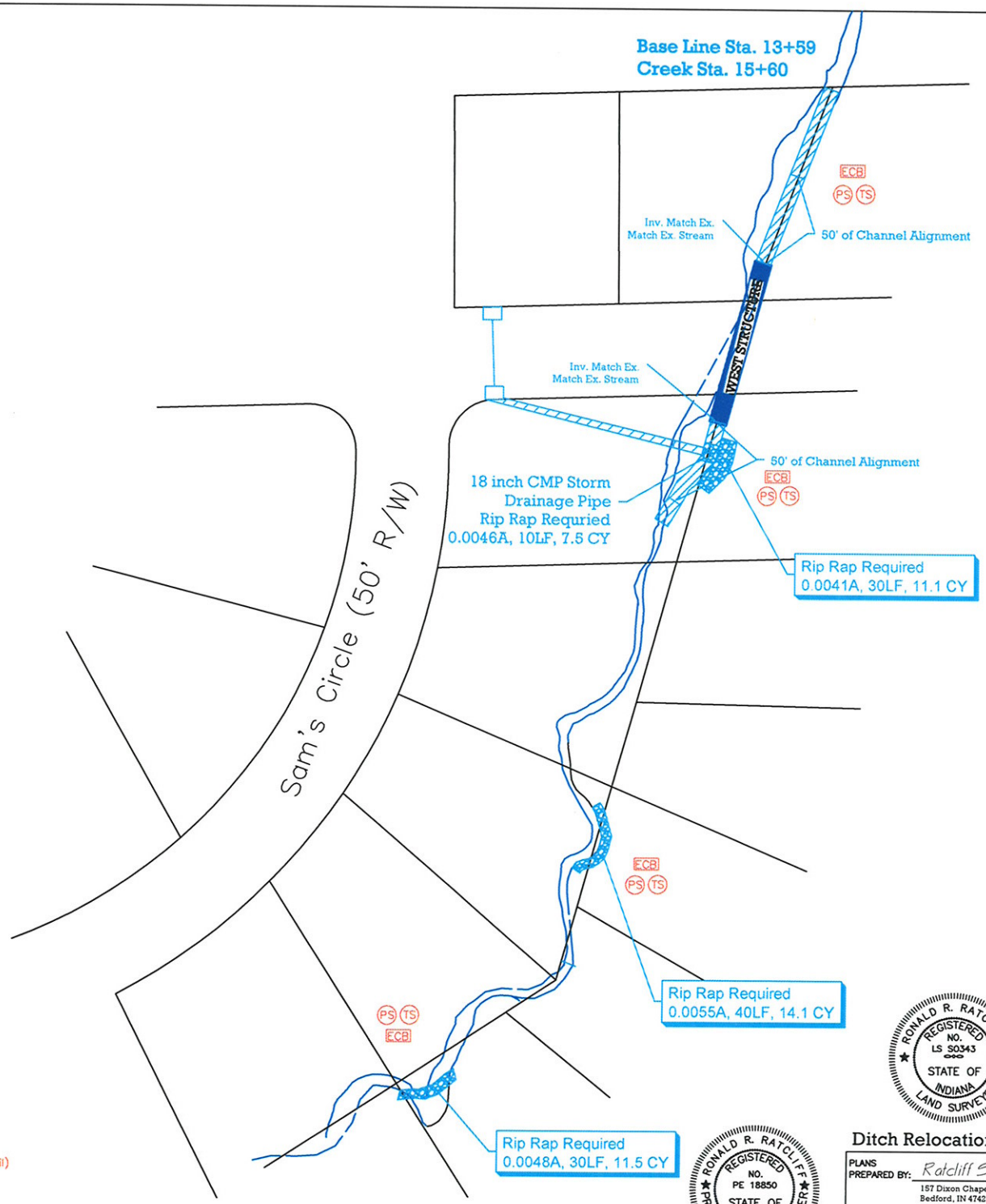


LEGEND

- ECB Erosion Control Blanket (See Detail)
- PS Permanent Seeding (See Detail)
- TS Temporary Seeding (See Detail)
- 10' of Riprap

RONALD R. RATCLIFF
REGISTERED NO. LS 50343
STATE OF INDIANA
LAND SURVEYOR

RONALD R. RATCLIFF
REGISTERED NO. PE 18850
STATE OF INDIANA
PROFESSIONAL ENGINEER

N

0' 40' 40'

SCALE: 1" = 40'

Ditch Relocation (North End)

PLANS PREPARED BY: Ratcliff Surveying & Engineering

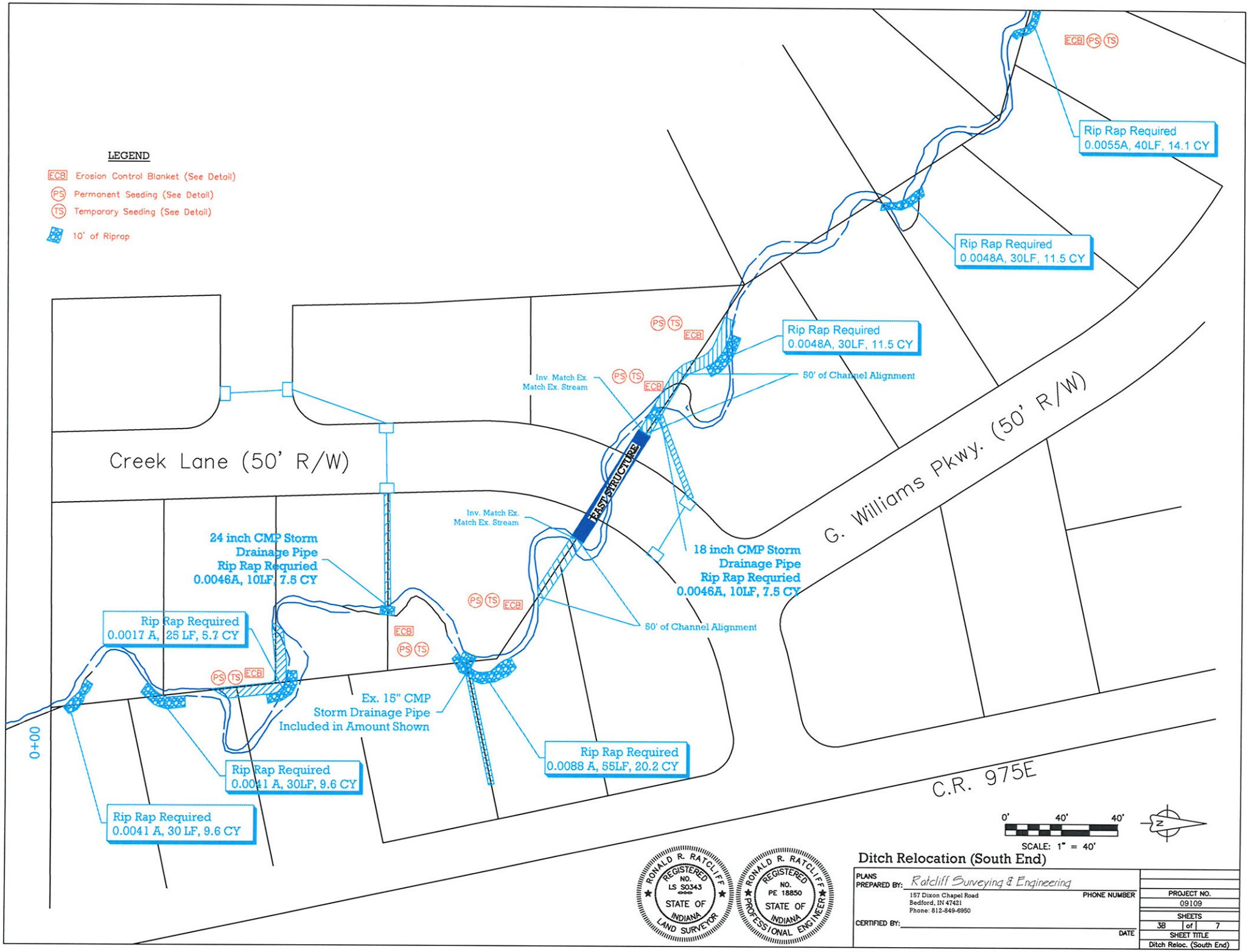
157 Dixon Chapel Road
Bedford, IN 47421
Phone: 812-849-6950

PHONE NUMBER

CERTIFIED BY:

DATE

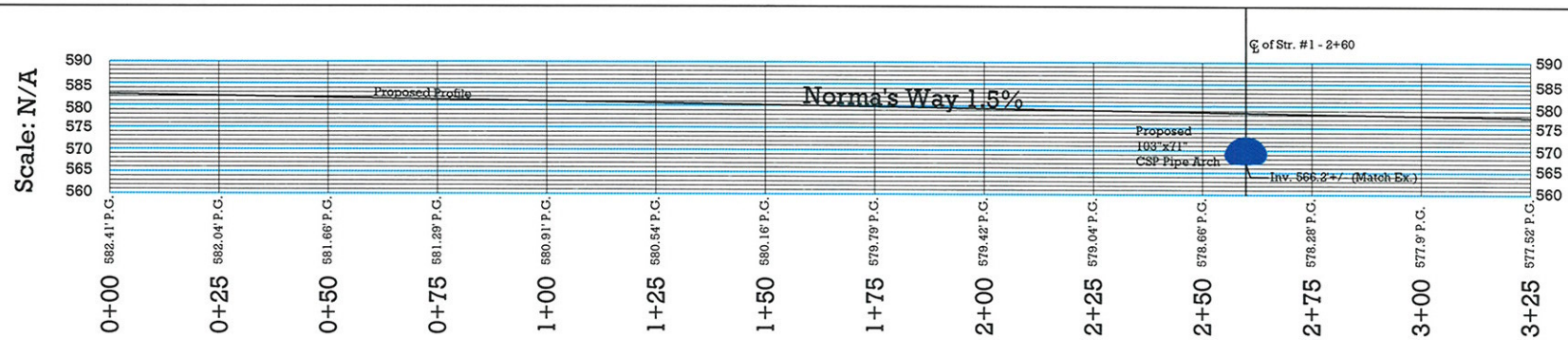
PROJECT NO.	09109
SHEETS	3A of 7
SHEET TITLE	Ditch Reloc. (North End)



Ditch Relocation (South End)

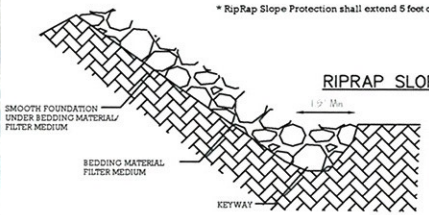
PLANS PREPARED BY: Ratcliff Surveying & Engineering
157 Dixon Chapel Road
Bedford, IN 47421
Phone: 812-849-6950
PHONE NUMBER
CERTIFIED BY:
DATE

PROJECT NO.	09109
SHEETS	38 of 7
SHEET TITLE	Ditch Reloc. (South End)

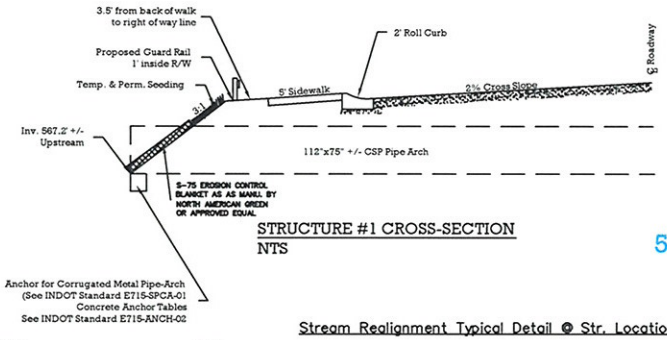


Scale: N/A

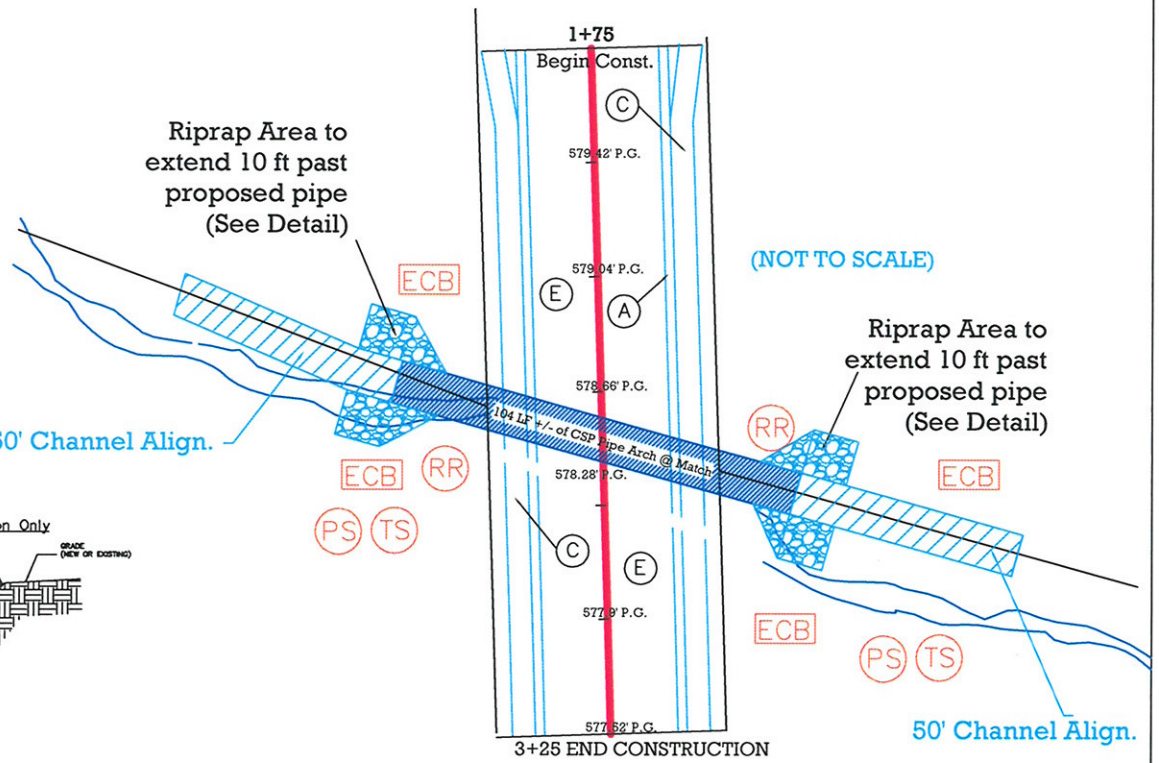
* RipRap Slope Protection shall extend 5 feet on each side of Proposed Pipe



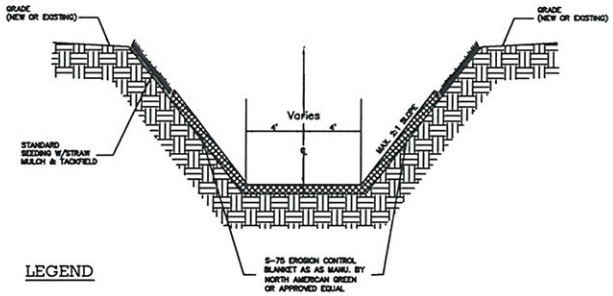
RIPRAP SLOPE PROTECTION



STRUCTURE #1 CROSS-SECTION
NTS



Stream Realignment Typical Detail @ Str. Location Only



Notes:

1) All drainage and roadway construction to meet Jackson County Highway Standards and Ordinances. Permits required for all driveway construction. Roadway subgrade shall be proof rolled PRIOR to placement of Compacted Aggregate and Asphalt pavement, approval by Jackson County Highway Department Superintendent or Engineer.
2) Stop signs and street name marker signs required at all intersections.
3) "No Parking" signs required on one side of roadways.

LEGEND

- (A) 2' Roll Curb (See Detail)
- (B) 2.5' Planting Strip
- (C) 5' Concrete Sidewalk, 4" Thick, 6x6 1.4/1.4 Wire Mesh w/Contraction Joints every 5'
- (D) Type "E" Concrete Curb Ramp (See Detail)
- (E) Asphalt Roadway (See Detail)
- ECB Erosion Control Blanket (See Detail)
- PS Permanent Seeding (See Detail)
- TS Temporary Seeding (See Detail)
- RR Rip Rap Slope Protection (See Detail)

N

0' 40' 40'

SCALE: 1" = 40'

RONALD R. RATCLIFF REGISTERED NO. LS S0343 STATE OF INDIANA LAND SURVEYOR

RONALD R. RATCLIFF REGISTERED NO. PE 18850 STATE OF INDIANA PROFESSIONAL ENGINEER

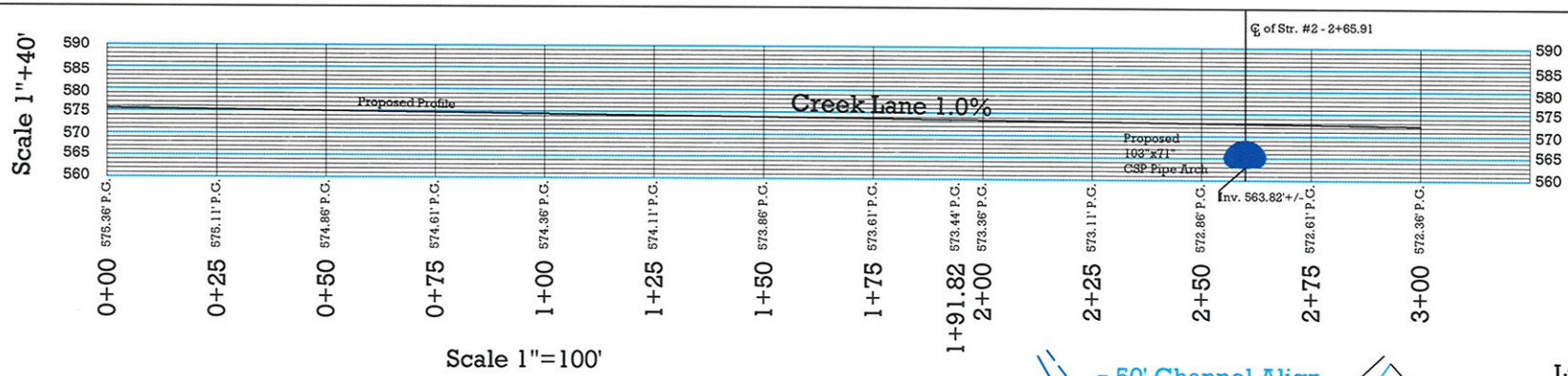
West Proposed Str.

PLANS PREPARED BY: Ratcliff Surveying & Engineering
157 Dixon Chapel Road
Bedford, IN 47421
Phone: 812-849-6950
PHONE NUMBER

CERTIFIED BY: _____ DATE

Corps ID LRL-2010-49-anr
IDEM No. 2010-021-36-DDC-V

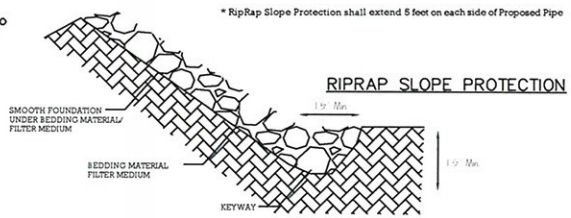
PROJECT NO.
09109
SHEETS
4 of 7
SHEET TITLE
WEST STR.



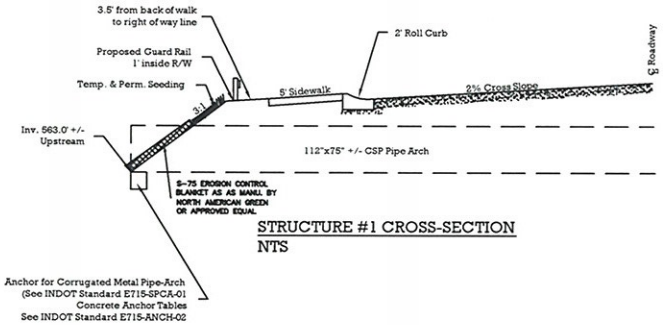
Scale 1"=100'

Notes:

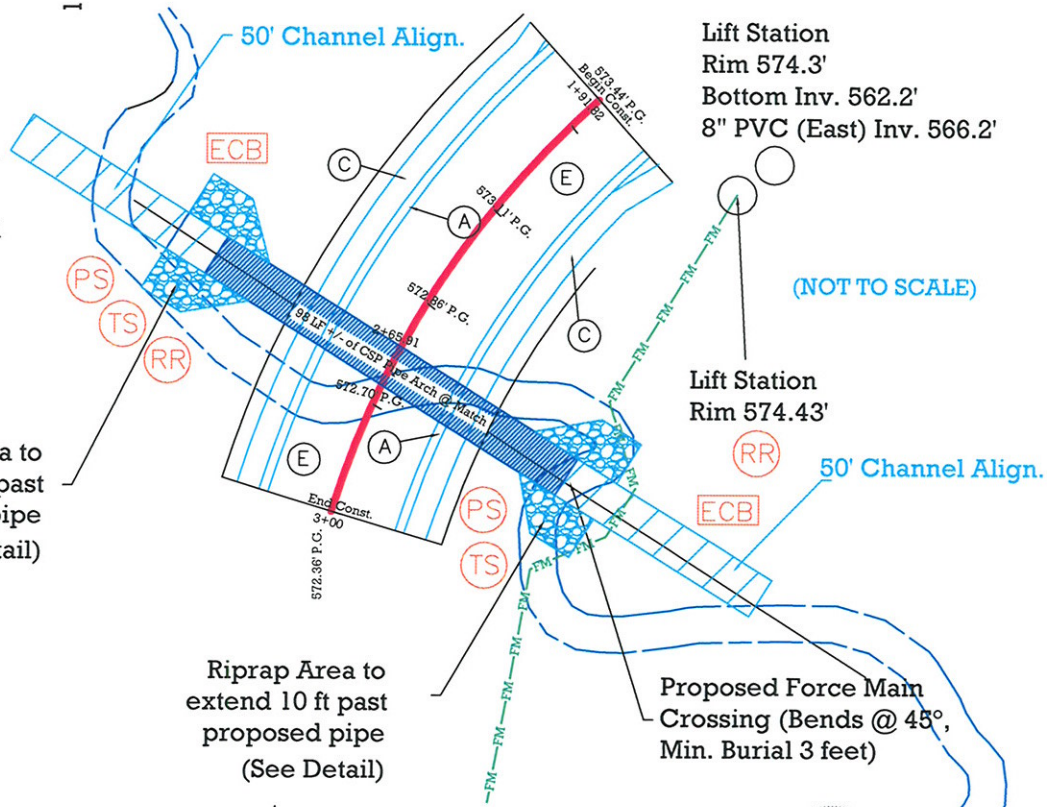
1) All drainage and roadway construction to meet Jackson County Highway Standards and Ordinances. Permits required for all driveway construction. Roadway subgrade shall be proof rolled PRIOR to placement of Compacted Aggregate and Asphalt pavement, approval by Jackson County Highway Department Superintendent or Engineer.
2) Stop signs and street name marker signs required at all intersections.
3) "No Parking" signs required on one side of roadways.

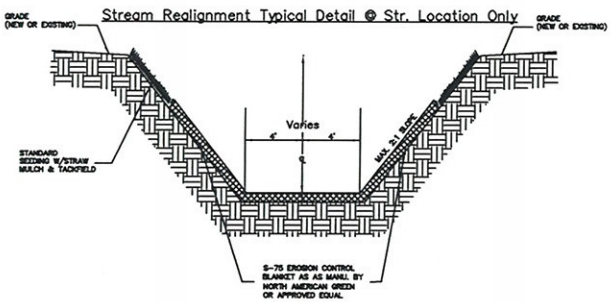


RIPRAP SLOPE PROTECTION



STRUCTURE #1 CROSS-SECTION
NTS





LEGEND

- (A) 2' Roll Curb (See Detail)
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- (C) 5' Concrete Sidewalk, 4" Thick, 6x6 1.4/1.4 Wire Mesh w/Contraction Joints every 5'
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- (E) Asphalt Roadway (See Detail)
- ECB Erosion Control Blanket (See Detail)
- PS Permanent Seeding (See Detail)
- TS Temporary Seeding (See Detail)
- RR Rip Rap Slope Protection (See Detail)

N

0' 40' 40'

SCALE: 1" = 40'

RONALD R. RATCLIFF REGISTERED NO. LS 50343 STATE OF INDIANA LAND SURVEYOR

RONALD R. RATCLIFF REGISTERED NO. PE 18850 STATE OF INDIANA PROFESSIONAL ENGINEER

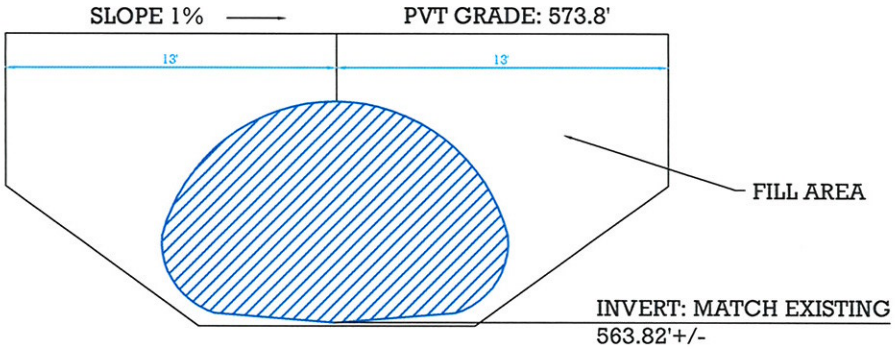
Corps ID LRL-2010-49-anr
IDEM No. 2010-021-36-DDC-V

East Proposed Structure

PLANS PREPARED BY: Ratcliff Surveying & Engineering
157 Dixon Chapel Road
Bedford, IN 47421
Phone: 812-849-6950
PHONE NUMBER
CERTIFIED BY:
DATE

PROJECT NO.
09109
SHEETS
5 of 7
SHEET TITLE
EAST STR.

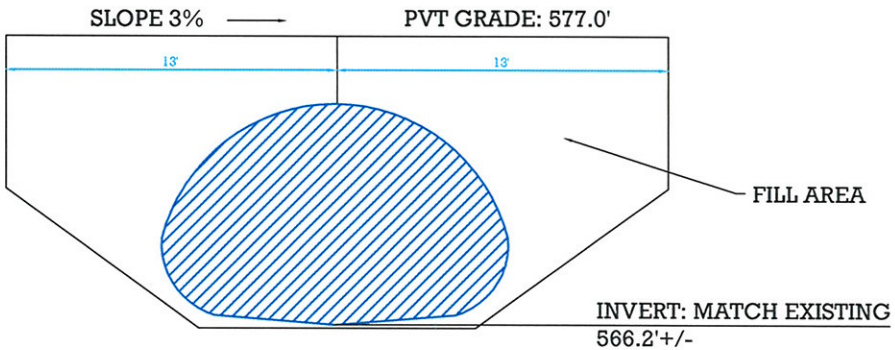
EAST CULVERT



PROPOSED 9'X9" X 6'7" ULTRAFLOW

Item: 1
Amount of Fill
Acreage: 0.0633 Acres
Linear Feet: 98 lft.
Amount: 504 cubic yards
Type: Native Soil

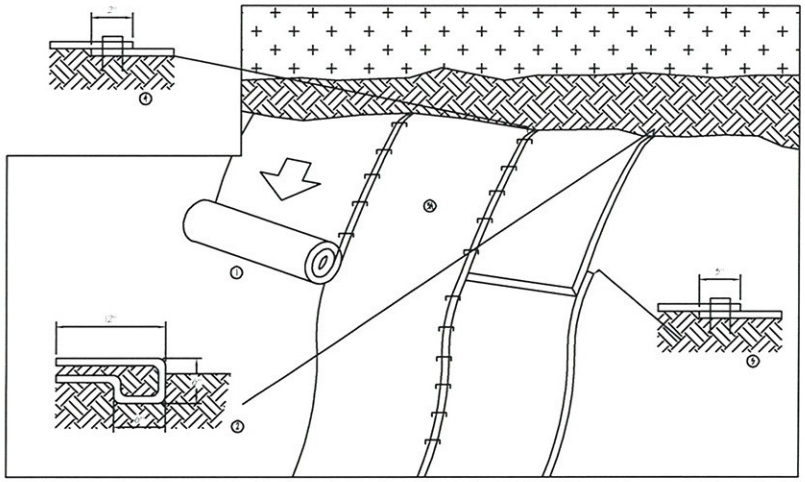
WEST CULVERT



PROPOSED 9'X9" X 6'7" ULTRAFLOW:

ITEM: 1
Amount of Fill
Acreage: 0.0669 Acres
Linear Feet: 104 lft.
Amount: 512 cubic yards
Type: Native Soil
Justification:
These culverts are required for access to ta proposed residential subdivision addition on the south side of the creek.

Note: A temporary crossing is no longer being considered.



EROSION CONTROL BLANKET - SLOPE APPLICATION

NTS

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANDY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15 CM) DEEP x 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/ STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/ STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/ STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/ STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5CM-12.5CM) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STICH ON THE PERVIOUSLY INSTALLED BLANKET.
5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30CM) APART ACROSS ENTIRE BLANKET WIDTH.

NOTE:

* IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15CM) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

RONALD R. RATCLIFF REGISTERED NO. PE 18850 STATE OF INDIANA PROFESSIONAL ENGINEER

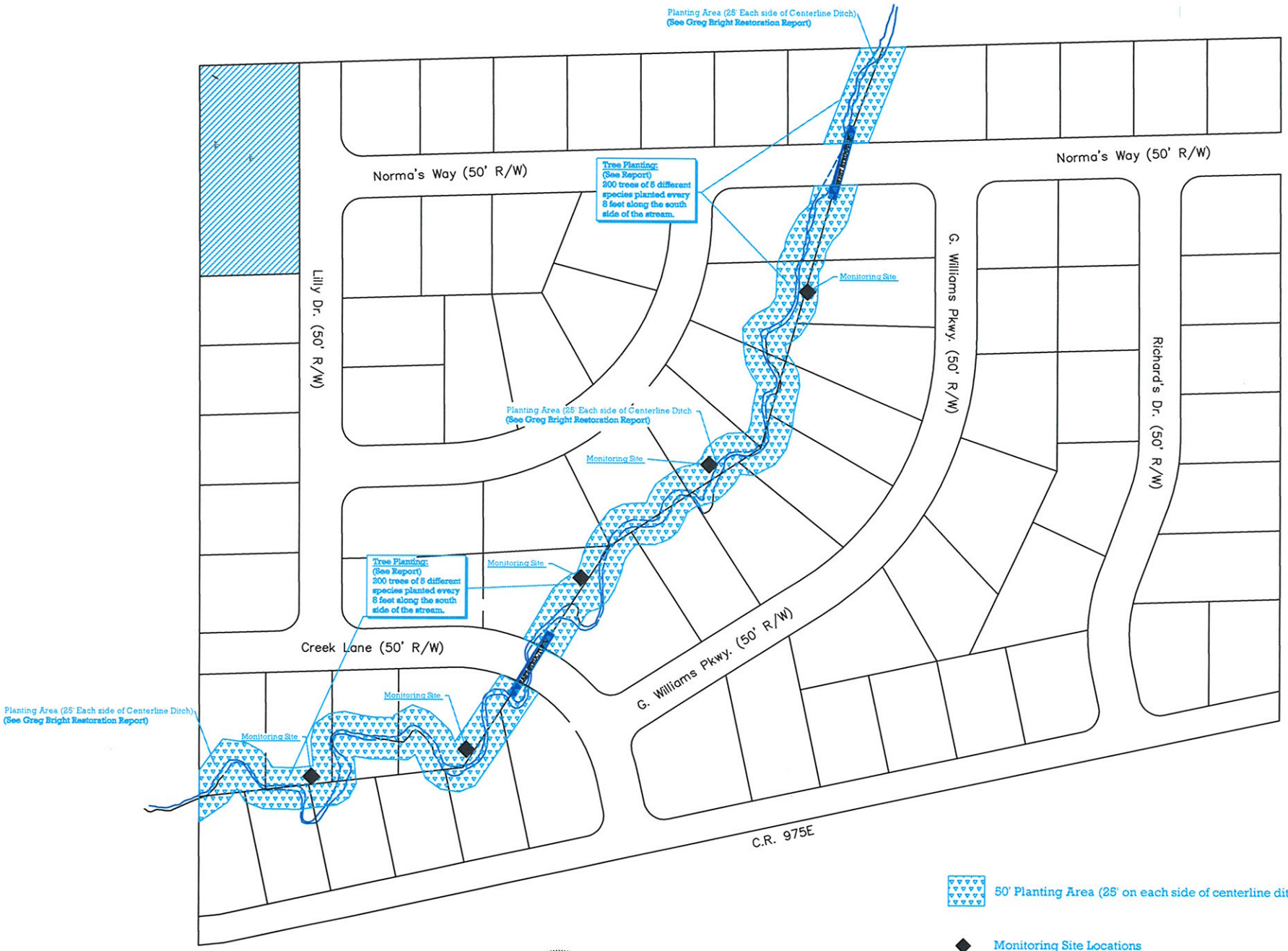
Structure Crossing Details, Quantities & Details

Corps ID LRL-2010-49-anr
IDEM No. 2010-021-36-DDC-V

PLANS PREPARED BY: Ratcliff Surveying & Engineering
157 Dixon Chapel Road
Bedford, IN 47421
Phone: 812-849-6950
PHONE NUMBER
CERTIFIED BY:
DATE

RONALD R. RATCLIFF REGISTERED NO. LS S0343 STATE OF INDIANA LAND SURVEYOR

PROJECT NO.
09109
SHEETS
6 of 7
SHEET TITLE
DETAILS



RONALD R. RATCLIFF
REGISTERED NO. LS S0343
STATE OF INDIANA
LAND SURVEYOR

RONALD R. RATCLIFF
REGISTERED NO. PE 18850
STATE OF INDIANA
PROFESSIONAL ENGINEER

Planting Plan

PLANS PREPARED BY: Ratcliff Surveying & Engineering
157 Dixon Chapel Road
Bedford, IN 47421
Phone: 812-849-6950
PHONE NUMBER

CERTIFIED BY: _____
DATE

N

0' 80' 160'
SCALE: 1" = 100'

Corps ID LRL-2010-49-anr
IDEM No. 2010-021-36-DDC-V

PROJECT NO.
09109
SHEETS
7 of 7
SHEET TITLE
Overall Plan

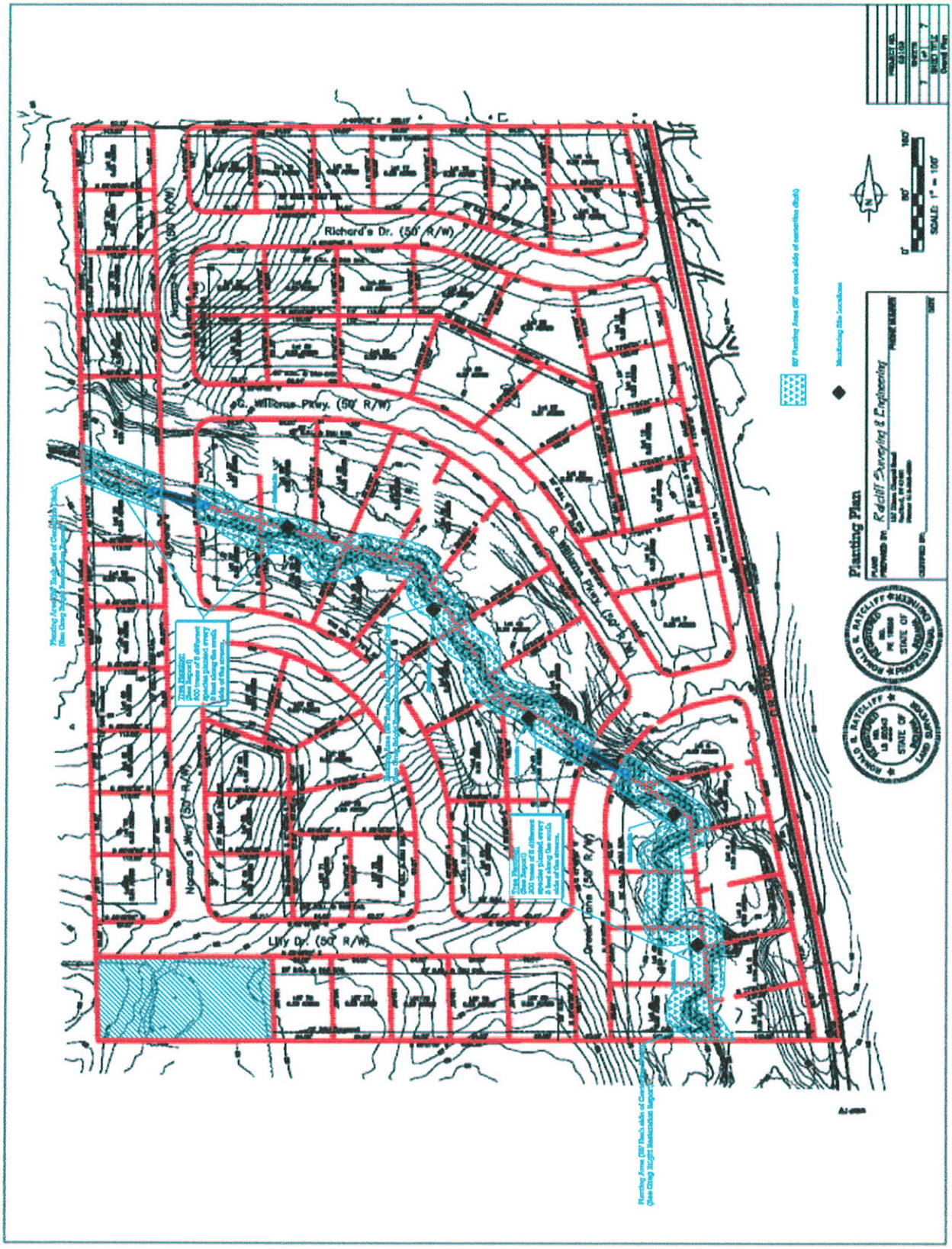



Fig. 18. Proposed planting plan