TENNESSEE DEPARTMENT OF ENVIRONMENT & CONSERVATION

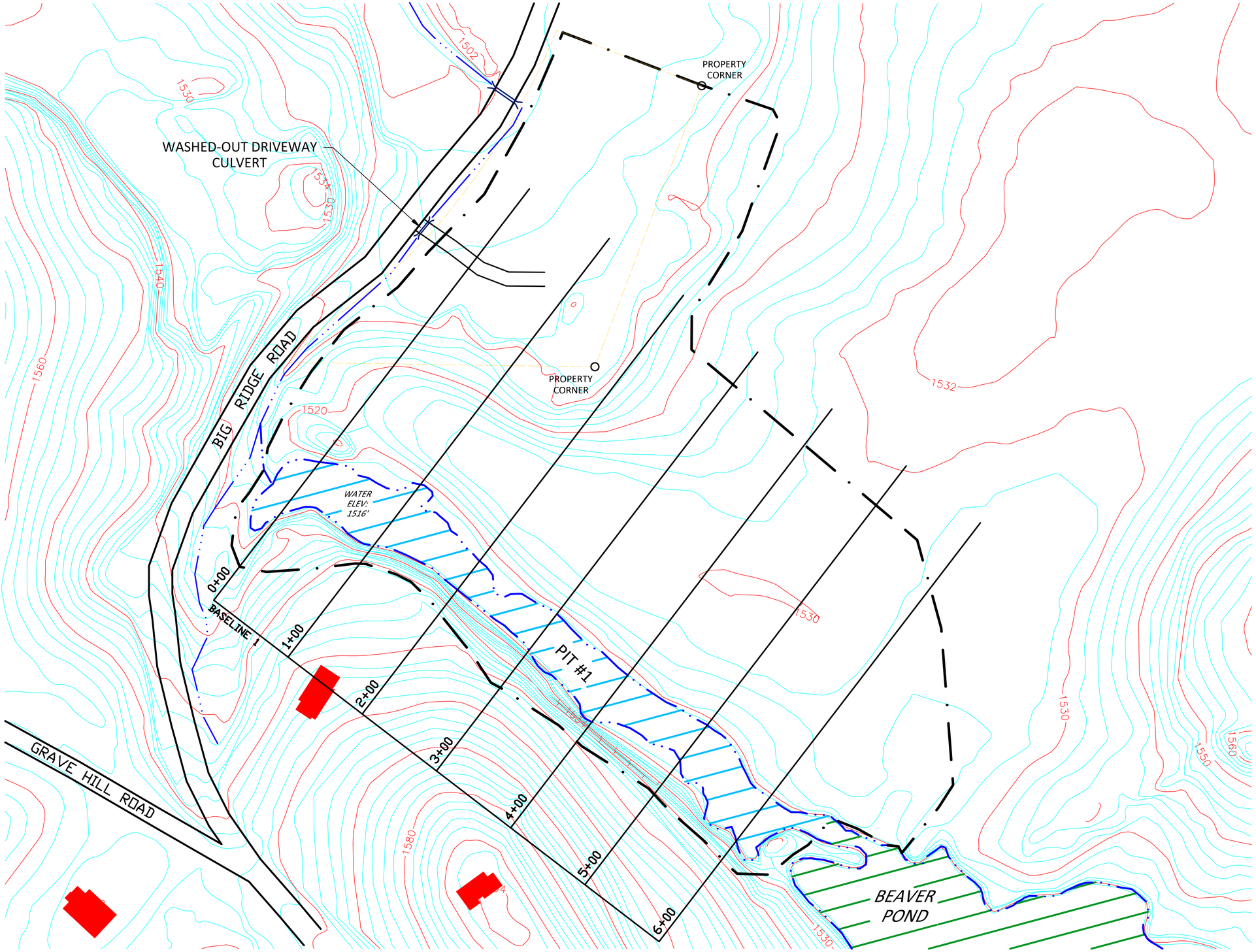
LAND RECLAMATION SECTION

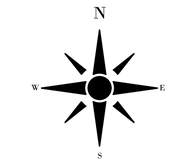
CONSTRUCTION PLANS

ODUM BRANCH 2

RECLAMATION PROJECT

SCOTT COUNTY, TENNESSEE





NOTES:

1. TWO 24" HDPE CULVERTS WILL BE INSTALLED ALONG BIG RIDGE ROAD TO ACCESS THE SITE
2. A 5' TEMPORARY CHANNEL WILL BE CONSTRUCTED TO DIVERT DRAINAGE AWAY FROM THE PIT BEFORE GRADE WORK BEGINS
3. ALL CLEARING DEBRIS SHALL BE DISPOSED OF BY BURYING, WINDROWING, AND/OR PILING AND BURNING
4. WATER IN PITS SHALL BE TESTED AND TREATED, IF NECESSARY, TO ENSURE COMPLIANCE AND THEN BE DEWATERED BY PUMPING OR DRAINING IN ACCORDANCE WITH SECTION 214.03
5. HIGHWALLS SHALL BE BACKFILLED TO A 4:1 OR FLATTER SLOPE
6. GRADING SHALL PROVIDE POSITIVE DRAINAGE AND ELIMINATE ALL DEPRESSIONS THAT WILL HOLD WATER
7. HIGHWALLS SHALL NOT BE BROKEN DOWN DURING GRADING
8. GRASS-LINED CHANNEL SHALL BE CONSTRUCTED TO CARRY DRAINAGE ACROSS THE SITE TO THE ROAD DITCH
9. GRASS-LINED CHANNEL SHALL BE 10' WIDE AND IT SHALL HAVE A 1¼ PERCENT GRADE, SO GRADE CONTROL IS CRUCIAL
10. MEANDERS SHALL BE CONSTRUCTED IN THE GRASS-LINED CHANNEL TO SLOW WATER VELOCITY
11. A RIP-RAP CHANNEL SHALL BE CONSTRUCTED WHERE THE STREAM CHANNEL OUTLET DISCHARGES INTO THE ROAD DITCH
12. ROCK IN RIP-RAP CHANNEL SHALL BE A MIXTURE OF CLEAN CLASS-A AND CLASS-B LIMESTONE
13. THE RIP-RAP CHANNEL SHALL 10' WIDE BY 3' DEEP BY 30' LONG
14. STRAW WATTLES WILL BE INSTALLED ALONG BOTH SIDES OF THE GRASS-LINED CHANNEL
15. TREE AND SHRUB SEEDLINGS SHALL BE PLANTED FOR 20' ON BOTH SIDES OF THE GRASS-LINED CHANNEL
16. ALL DISTURBED AREAS SHALL BE REVEGETATED IN ACCORDANCE WITH THE SPECIFICATIONS IN SECTION 801.0
17. PROPERTY CORNERS WILL BE REESTABLISHED BY A LICENSED SURVEYOR AFTER REVEGETATION WORK HAS BEEN COMPLETED

ESTIMATED GRADE WORK QUANTITIES

ODUM BRANCH SITE	8.2	ACRES
MARCUM SITE	12.5	ACRES
TOTAL	20.7	ACRES

ESTIMATED CUT/FILL QUANTITIES

ODUM BRANCH SITE	40,000 CUT	35,000 FILL
MARCUM SITE	64,000 CUT	55,000 FILL
TOTAL	104,000 CUT	90,000 FILL

ESTIMATED WATER-FILLED PIT QUANTITIES

PIT #1	2,100,000 GAL

* ALL WATER PITS SHALL BE TESTED TO ENSURE THEY ARE IN COMPLIANCE BEFORE DEWATERING CAN BEGIN
* THE CONTRACTOR IS TO SUBMIT THE ANALYTICAL RESULTS WITH THEIR PLAN OF TREATMENT PRIOR TO STARTING DEWATERING
* WATER IN PIT 1 SHALL BE PUMPED OR DRAINED DOWN TO AN ACCEPTABLE LEVEL BEFORE BACKFILLING OPERATIONS BEGIN

LEGEND

- WORK LIMITS
- STREAMLINE
- WATER-FILLED PIT
- STRAW WATTLES
- ROAD
- PROPERTY LINE

ODUM BRANCH 2 RECLAMATION PROJECT

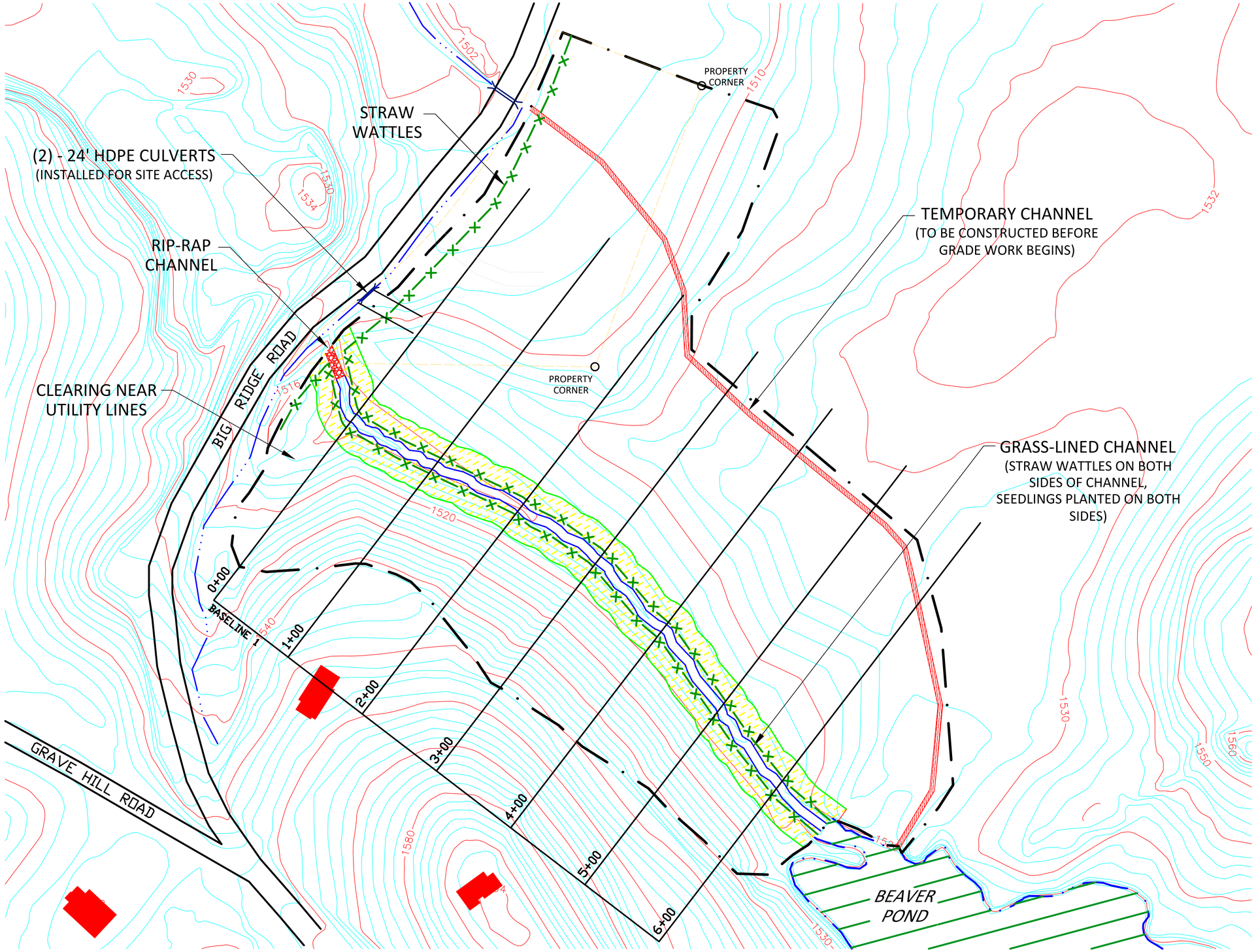
ODUM BRANCH SITE - PLAN VIEW

MAJOR CONTOURS - 10 FEET
MINOR COUNTOURS - 2 FEET

SCALE 1"=50'

0 50 100 150

ENTITY	TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION LAND RECLAMATION SECTION		
PROJECT	ODUM BRANCH 2 RECLAMATION PROJECT		
	ODUM BRANCH SITE - PLAN VIEW		
BY	DRAWN BY: MPP DATE: 8/23/2020	SURVEYED BY: LIDAR DATE: 2015	DESIGNED BY: MPP DATE: 8/11/2020
DWG	CHECKED BY: BEE DATE: 8/31/2020	SCALE 1" = 50'	SHEET 1 OF 7



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* WATER IN PIT 1 SHALL BE PUMPED OR DRAINED DOWN TO AN ACCEPTABLE LEVEL BEFORE BACKFILLING OPERATIONS BEGIN

LEGEND

- WORK LIMITS
- STREAMLINE
- WATER-FILLED PIT
- STRAW WATTLES
- ROAD
- PROPERTY LINE

ODUM BRANCH 2 RECLAMATION PROJECT

ODUM BRANCH SITE - FINAL VIEW

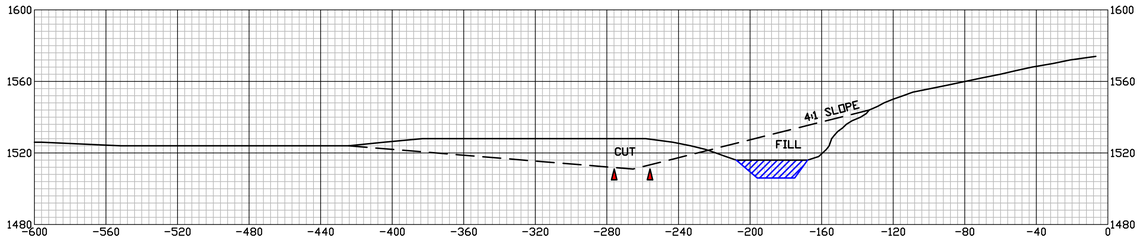
MAJOR CONTOURS - 10 FEET
MINOR COUNTOURS - 2 FEET

SCALE 1"=50'

0 50 100 150

ENTITY	TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION LAND RECLAMATION SECTION
PROJECT	ODUM BRANCH 2 RECLAMATION PROJECT
	ODUM BRANCH SITE - FINAL VIEW

BY	DRAWN BY: MPP DATE: 8/23/2020	SURVEYED BY: LIDAR DATE: 2015	DESIGNED BY: MPP DATE: 8/11/2020
DWG	CHECKED BY: BEE DATE: 8/31/2020	SCALE 1" = 50'	SHEET 2 OF 7



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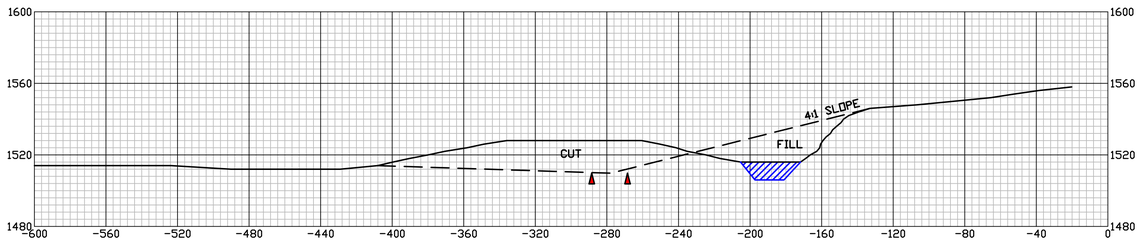

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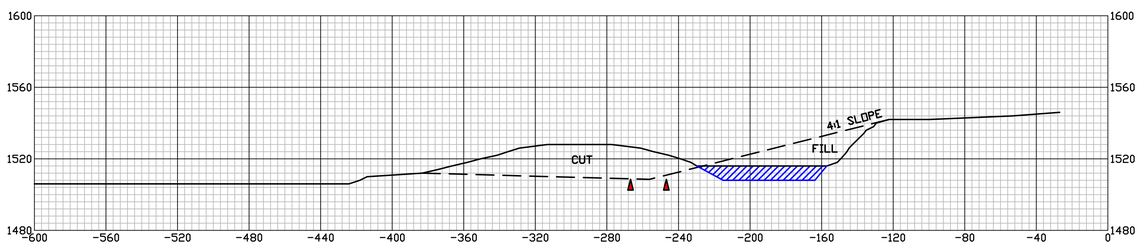

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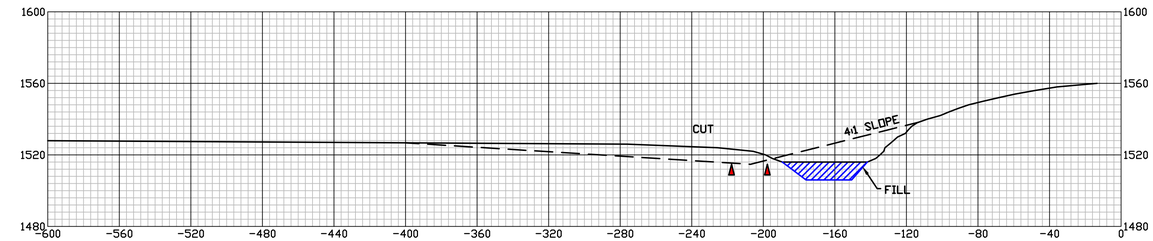

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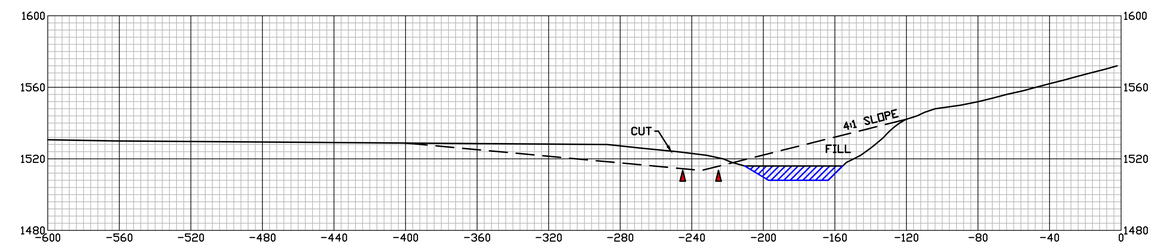

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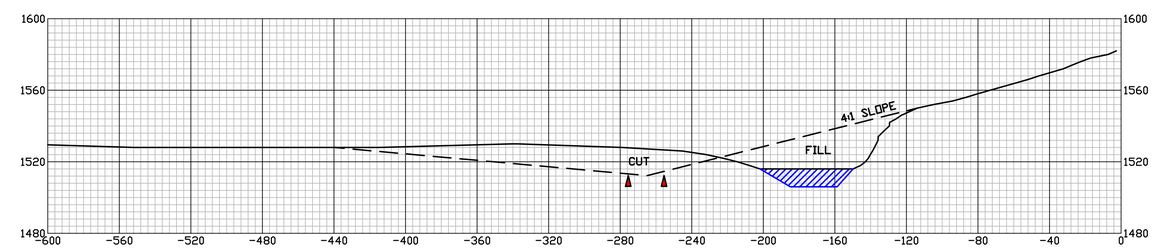

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LEGEND

- ORIGINAL GROUND
- PROPOSED GRADE
- CONSTRUCTED STREAMLINE
- WATER

ODUM BRANCH 2

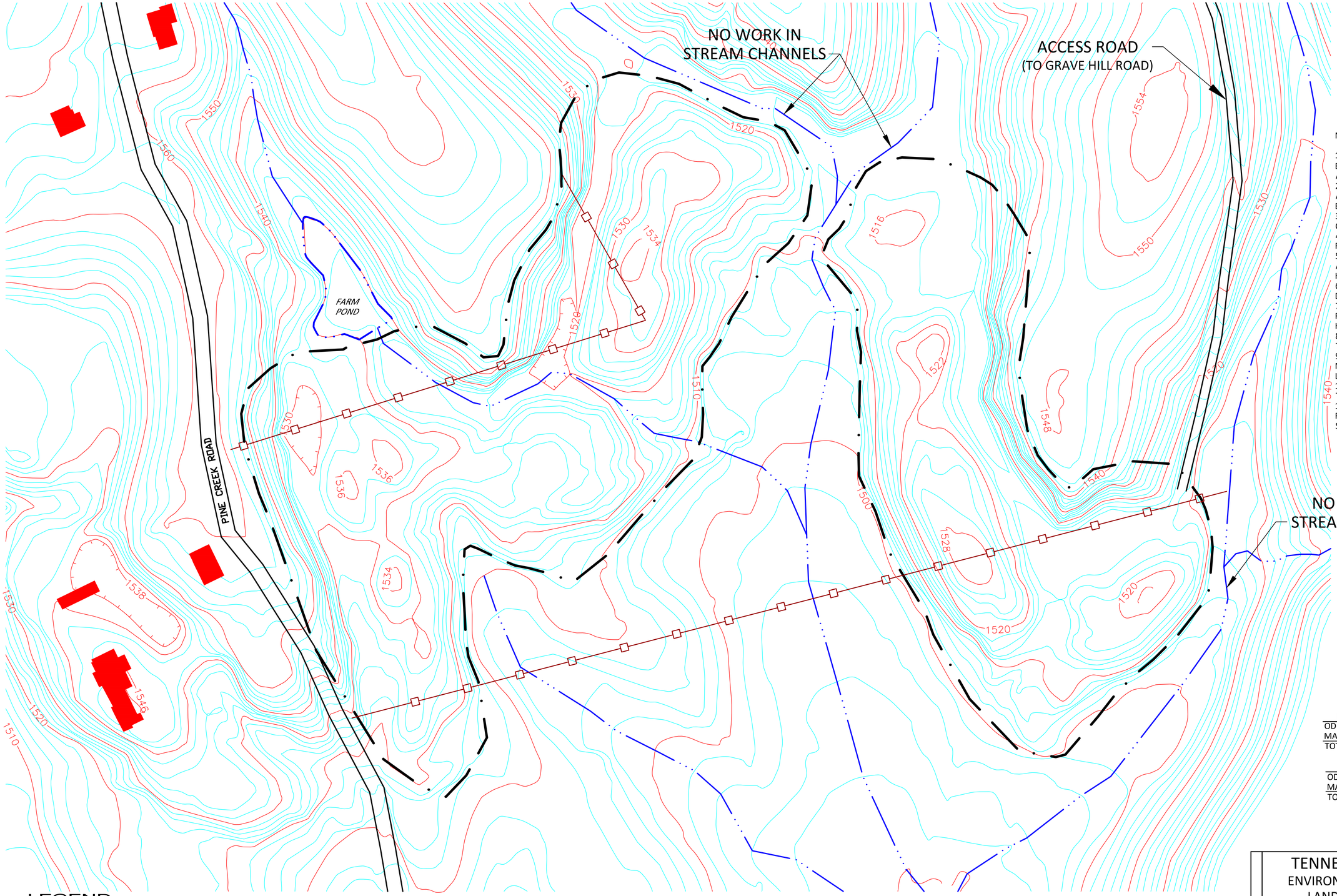
ODUM BRANCH SITE

CROSS SECTIONS

SCALE 1"=40'

0 40 80 120

ENTITY	TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION LAND RECLAMATION SECTION		
PROJECT	ODUM BRANCH 2 RECLAMATION PROJECT		
	ODUM BRANCH SITE - BASELINE 1 - CROSS SECTIONS		
BY	DRAWN BY: MPP DATE: 8/23/2020	SURVEYED BY: DATE:	DESIGNED BY: MPP DATE: 8/11/2020
DWG	CHECKED BY: BEE DATE: 8/31/2020	SCALE 1" = 40'	SHEET 3 OF 7



NOTES:

1. ALL CLEARING DEBRIS SHALL BE DISPOSED OF BY BURYING, WINDROWING, AND/OR PILING AND BURNING
2. STREAM CHANNELS BETWEEN THE SITES AND AT THE SOUTHEAST END OF THE SITE SHALL NOT BE DISTURBED DURING CONSTRUCTION
3. TEMPORARY CROSSINGS SHALL BE CONSTRUCTED ACROSS STREAM CHANNELS
4. HIGHWALLS SHALL BE BACKFILLED TO A 5:1 OR FLATTER SLOPE
5. GRADING SHALL PROVIDE POSITIVE DRAINAGE AND ELIMINATE ALL DEPRESSIONS THAT WILL HOLD WATER
6. HIGHWALLS SHALL NOT BE BROKEN DOWN DURING GRADING
7. FENCE BELOW HIGHWALL ON SITE WILL BE RECONSTRUCTED AFTER REVEGATATION WORK HAS BEEN COMPLETED
8. A RIP-RAP CHANNEL SHALL BE CONSTRUCTED TO CARRY WATER FROM THE FARM POND
9. ROCK IN RIP-RAP DITCHES SHALL BE A MIXTURE OF CLEAN CLASS-A AND CLASS-B LIMESTONE
10. STRAW WATTLES WILL BE INSTALLED AT THE TOE OF THE GRADE WORK
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ESTIMATED GRADE WORK QUANTITIES

ODUM BRANCH SITE	8.2	ACRES
MARCUM SITE	12.5	ACRES
TOTAL	20.7	ACRES

ESTIMATED CUT/FILL QUANTITIES

ODUM BRANCH SITE	40,000 CUT	34,000 FILL
MARCUM SITE	64,000 CUT	55,000 FILL
TOTAL	104,000 CUT	89,000 FILL

LEGEND

- WORK LIMITS
- STREAMLINE
- WATER-FILLED PIT
- STRAW WATTLES
- ROAD
- PROPERTY LINE
- FENCE LINE

ODUM BRANCH 2 RECLAMATION PROJECT

MARCUM SITE - PLAN VIEW

MAJOR CONTOURS - 10 FEET
MINOR COUNTOURS - 2 FEET

SCALE 1"=60'

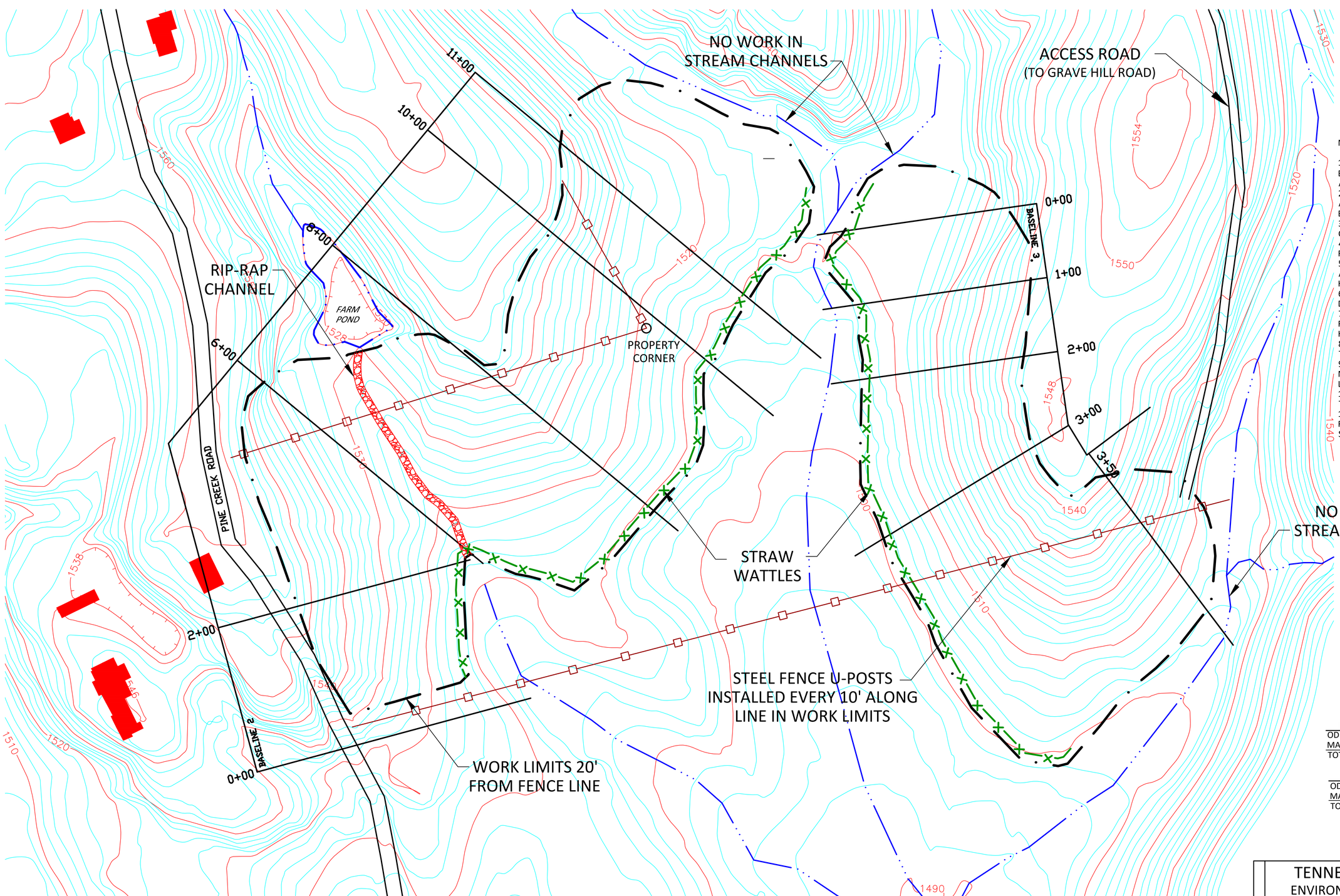
0 60 120 180

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
LAND RECLAMATION SECTION

PROJECT: ODUM BRANCH 2 RECLAMATION PROJECT

MARCUM SITE - PLAN VIEW

BY	DRAWN BY: MPP DATE: 8/23/2020	SURVEYED BY: LIDAR DATE: 2015	DESIGNED BY: MPP DATE: 8/11/2020
DWG	CHECKED BY: BEE DATE: 8/31/2020	SCALE 1" = 60'	SHEET 4 OF 7



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8. A RIP-RAP CHANNEL SHALL BE CONSTRUCTED TO CARRY WATER FROM THE FARM POND
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LEGEND

- WORK LIMITS
- STREAMLINE
- WATER-FILLED PIT
- STRAW WATTLES
- ROAD
- PROPERTY LINE
- FENCE LINE

ODUM BRANCH 2
RECLAMATION PROJECT
MARCUM SITE - FINAL VIEW

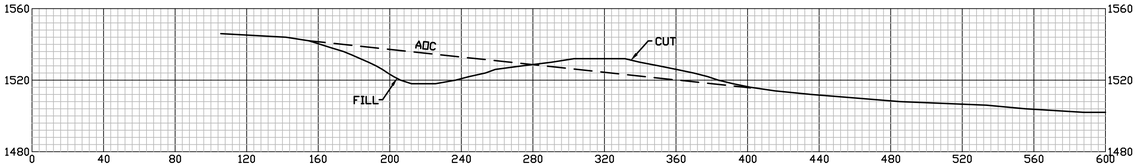
MAJOR CONTOURS - 10 FEET
MINOR COUNTOURS - 2 FEET

SCALE 1"=60'
0 60 120 180

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
LAND RECLAMATION SECTION

PROJECT: ODUM BRANCH 2 RECLAMATION PROJECT
MARCUM SITE - FINAL VIEW

BY: DRAWN BY: MPP DATE: 8/23/2020	SURVEYED BY: LIDAR DATE: 2015	DESIGNED BY: MPP DATE: 8/11/2020
DWG: CHECKED BY: BEE DATE: 8/31/2020	SCALE 1" = 60'	SHEET 5 OF 7



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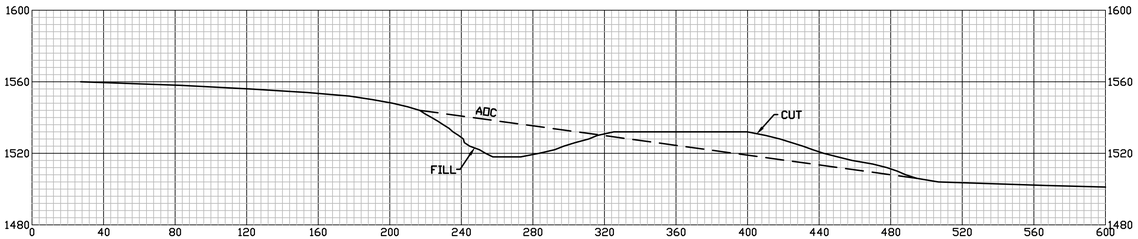

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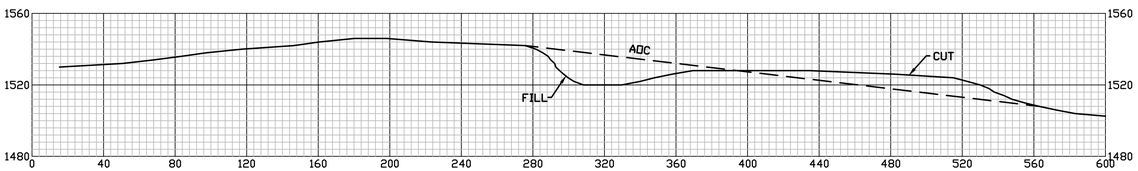

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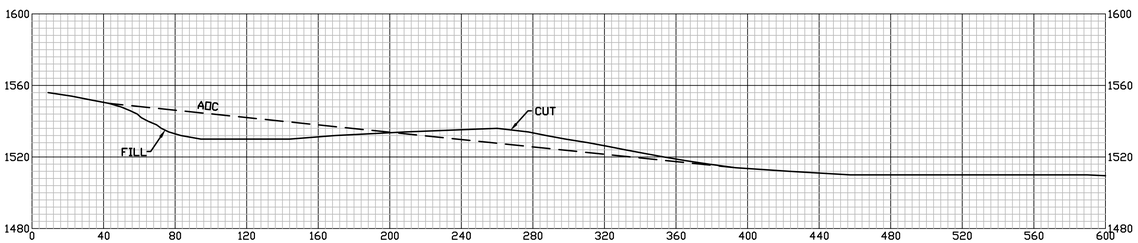

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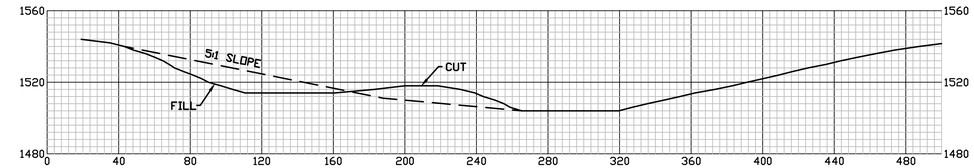
BASELINE 2



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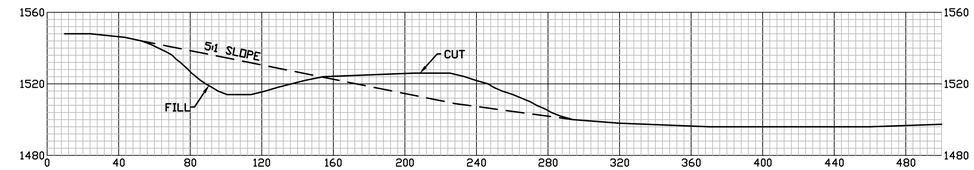

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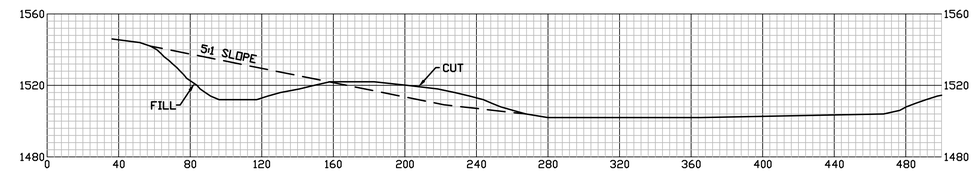

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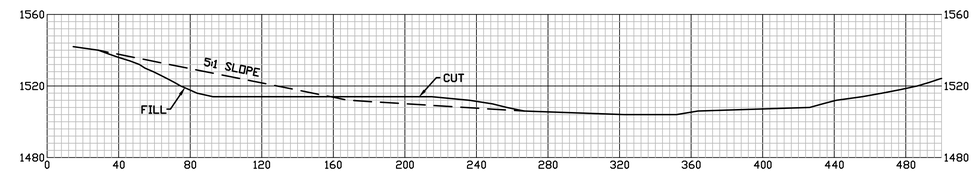

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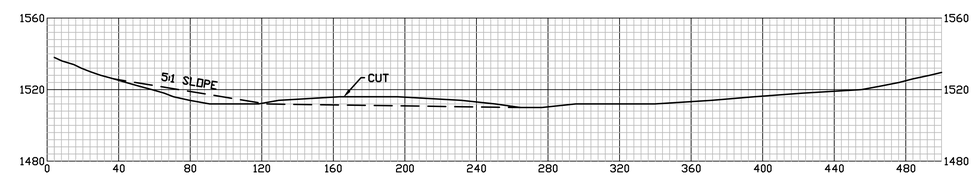

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BASELINE 3

LEGEND

- ORIGINAL GROUND
- PROPOSED GRADE
- CONSTRUCTED STREAMLINE

ODUM BRANCH 2

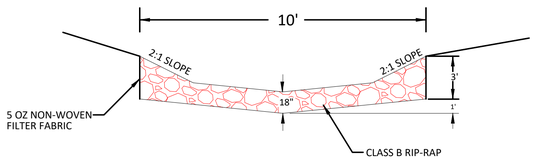
MARCUM SITE

CROSS SECTIONS

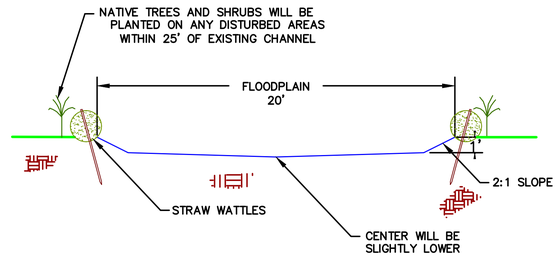
SCALE 1"=40'

0 40 80 120

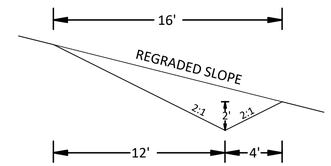
ENTITY	TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION LAND RECLAMATION SECTION		
PROJECT	ODUM BRANCH 2 RECLAMATION PROJECT		
	MARCUM SITE - BASELINES 2 & 3 - CROSS SECTIONS		
BY	DRAWN BY: MPP DATE: 8/23/2020	SURVEYED BY: DATE:	DESIGNED BY: MPP DATE: 8/11/2020
DWG	CHECKED BY: BEE DATE: 8/31/2020	SCALE 1" = 40'	SHEET 6 OF 7



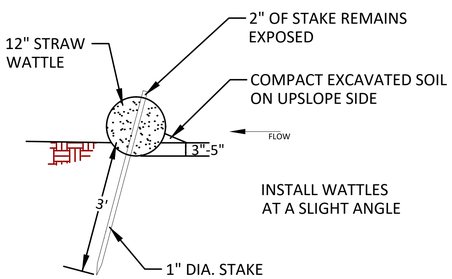
RIP-RAP DIVERSION DITCH SECTION



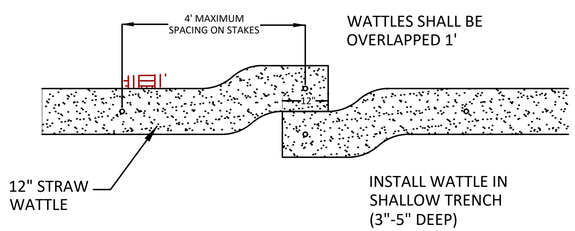
GRASS-LINED CHANNEL DETAIL



TYPICAL TERRACE SECTION

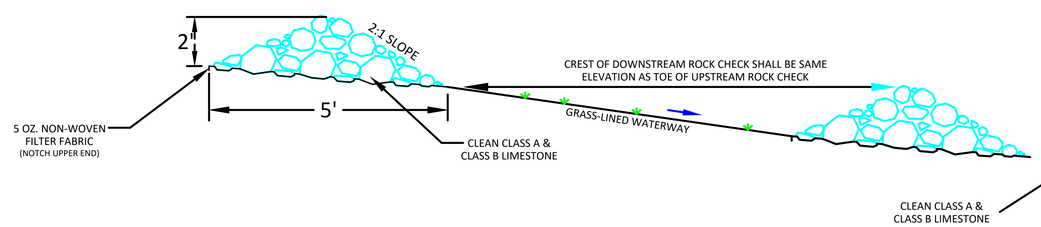


SIDE VIEW

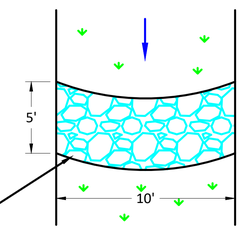


TOP VIEW

STRAW WATTLE DETAIL



SIDE VIEW



TOP VIEW

ROCK CHECK DETAIL

ODUM BRANCH 2

DETAILS

ENTITY	TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION LAND RECLAMATION SECTION		
PROJECT	ODUM BRANCH 2 RECLAMATION PROJECT		
	MISC. DETAILS		
BY	DRAWN BY: MPP DATE: 4/2/2020	SURVEYED BY: DATE:	DESIGNED BY: MPP DATE: 2/3/2020
DWG	CHECKED BY: BEE DATE: 6/2/2020	SCALE NOT TO SCALE	SHEET 7 OF 7