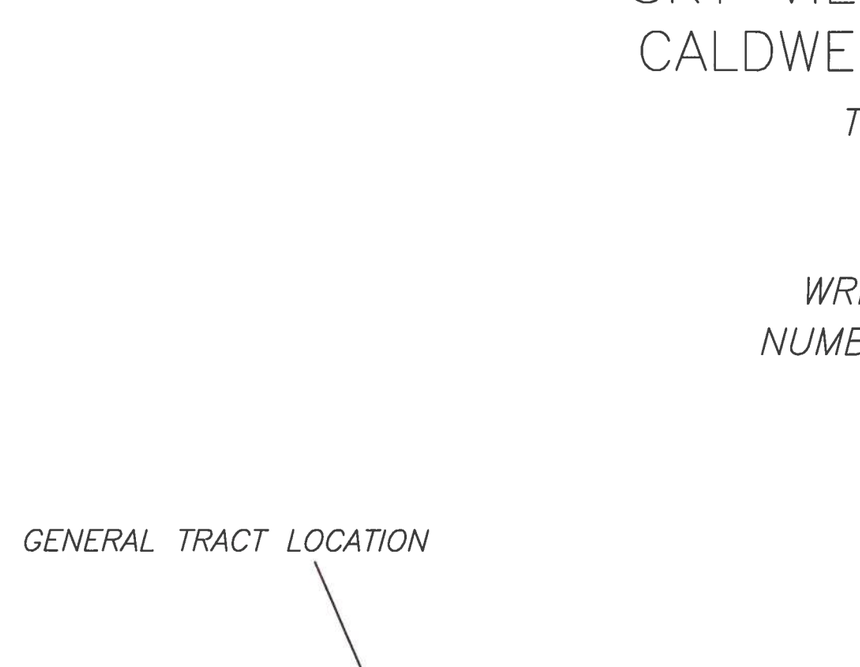
SKY VIEW FINANCIAL WETLAND
CALDWELL COUNTY MISSOURI

T56N, R26W, Section 5

Lat 39.6846611° N
Long 93.8330250° W

WRP PERPETUAL CONTRACT
NUMBER: 66-6424-11-0143Y

GENERAL TRACT LOCATION



MISSOURI

VICINITY MAP

The excavator is responsible for having all utilities located at the work site or on ingress road prior to beginning work. Call 1-800-DIG-RITE (344-7483) or 811 or click www.mo1call.com. Call 3 days before you dig!

The landowner shall insure that the excavator completes the locate request.

No activities may be taken by contractor that impedes drainage on or from adjacent property owners.

Date	
Designed	J.A. Gibson 02-01-2013
Drawn	J.A. Gibson 02-01-2013
Checked	Bruce Embrey 04-01-2013
Approved	04-04-2013

SKY VIEW FINANCIAL WETLAND
COVER SHEET

United States Department of Agriculture
Natural Resources Conservation Service
NRCS
WETS 4
727 PCA Rd.
Warrensburg, MO 64093

File Name

Drawing Name

4/22/13 9:44

Sheet 1 of 11

ESTIMATED QUANTITIES		
DESCRIPTION	QUANTITY	UNIT
Earthfill (Berms)	8460	CY
Earthfill (Spoil areas)	10,570	CY
Earthfill (Habitat Mounds)	4480	CY
12" dia. SDR 35 pvc pipe	125	LF
2' x 12" dia. water control structure	2	EA
18" dia. SDR 35 pvc pipe	68	LF
3' x 18" dia. water control structure	1	EA
Trash rack (Small)	2	EA
Trash rack (Large)	1	EA
Fence post	6	EA
Animal guard (12" dia.)	2	EA
Animal guard (18" dia.)	1	EA
Seeding/cover crop	5.60	AC
*Clearing light-WRP	20.50	AC
+Clearing medium-WRP	0.50	AC

TABLE OF CONTENTS	
SHEET #	DESCRIPTION

| | |

* Clearing light-WRP: Includes the cost of all machinery and labor required to clear herbaceous vegetation and scattered seedling trees and shrubs on a per acre basis where a conservation practice will be built. Typically, will involve a small sized rubber tired tractor with a disk or mower. Disk or mower is capable of chopping and distributing the vegetation such that gathering and disposal is not necessary. This item is not applicable to tree planting or herbaceous establishment conservation practices.

+ Clearing medium-WRP: Includes the cost of all machinery and labor required to clear, grub, gather and dispose of woody encroachment comprising predominately of sapling trees and shrubs. Trees no larger than 4" dbh and scattered herbaceous growth on a per acre basis where a conservation practice will be built. Typically, will involve a medium sized rubber tired tractor or a medium sized tracked equipment with heavy duty disk, blade or shear blade.

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Approved J.A. Gibson 04-04-2013

SKY VIEW FINANCIAL WETLAND
TABLE OF CONTENTS/EST. QUANTITIES

United States Department of Agriculture
Natural Resources Conservation Service
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WETS 4
727 PCA Rd.
Warrensburg, MO 64093

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Benchmark Descriptions:

TBM #1: EL. = 745.23 on top of aluminum disk easement marker #13 at the Northwest corner of I/E easement 60 ft. West of centerline Catawba Rd.
X = 1,406,017.4690 ft.
Y = 14,415,372.7400 ft.

TBM #2: EL. = 742.65 on top of aluminum disk easement marker #15 940 ft. South of TBM #1.
X = 1,406,016.3640 ft.
Y = 14,414,432.2400 ft.

TBM #3: EL. = 742.30 on top of aluminum disk easement marker #16 470 ft. South of TBM #3.
X = 1,406,015.8390 ft.
Y = 14,413,961.8800 ft.

TBM #4: EL. = 743.49 on top of aluminum disk easement marker #18 at the Southeast corner of the easement.
X = 1,406,015.5500 ft.
Y = 14,413,051.2700 ft.

TBM #5: EL. = 743.38 on top of aluminum disk easement marker #20 875 ft. West of TBM #4.
X = 1,405,143.8050 ft.
Y = 14,413,076.9100 ft.

TBM #6: EL. = 745.89 on top of aluminum disk easement marker #2 in the West easement line 565 ft. Northeast of centerline of Ironwood Rd.
X = 1,403,719.7710 ft.
Y = 14,413,617.4000 ft.

TBM #7: EL. = 753.40 on top of aluminum disk easement marker #4 875 ft. Northeast of TBM #6.
X = 1,403,929.9130 ft.
Y = 14,414,470,9500 ft.

Pool Information:

Berms #1 – #3: 27.0 acres of saturation at EL. = 743.5 after excavation.

Berms #4 – #6: 13.5 acres of saturation at EL. = 743.5 after excavation.

Berm #7: 9.8 acres of saturation at EL. = 743.5 after excavation.

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SKY VIEW FINANCIAL WETLAND GENERAL PLAN MAP

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Natural Resources Conservation Service
United States Department of Agriculture

File Name

Drawing Name

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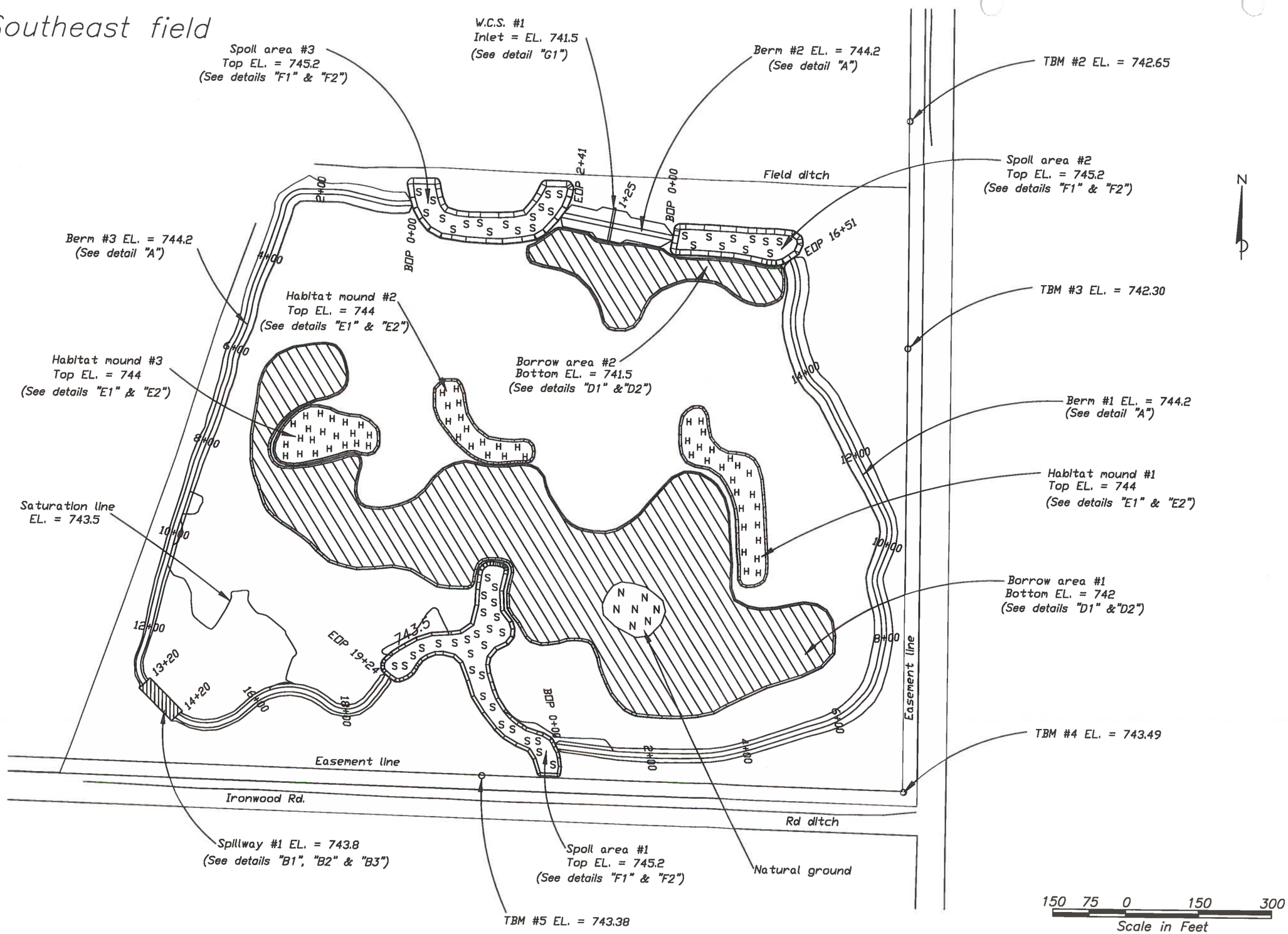
Southeast field



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SKY VIEW FINANCIAL WETLAND DESIGN DETAIL MAP

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File Name

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Sheet 4A of 11

North field

N

Saturation line
EL. = 743.5

Easement line

TBM #1 EL. = 745.23

I/O Easement

Spoil Area #4
Top EL. 745.2
(See details "F1" & "F2")

Rd. ditch

BOP 0+00

Borrow Area #4
Bottom EL. 742.3
(See details "D1" &"D2")

Berm #5 EL. = 744.2
(See detail "A")

Easement line

Spoil area #5
Top = EL. 745.2
(See details "F1" & "F2")

Habitat mound #5
Top EL. 744
(See details "E1" & "E2")

Habitat mound #4
Top EL. 744
(See details "E1" & "E2")

2+00

Borrow area #5
Bottom EL. 742
(See details "D1" &"D2")

Spoil area #6
Top = EL. 745.2
(See details "F1" & "F2")

4+00

Berm #4 EL. = 744.2
(See detail "A")

Berm #6 EL. = 744.2
(See detail "A")

6+00

TBM #2 EL. = 742.65

EOP 3+87

BOP 0+00

EOP 2+76

1+05

BOP 0+00

EOP 9+16

8+00

Spillway #2
EL. 743.8
(See details "C1", "C2" & "C3")

Field ditch

W.C.S. #2
Inlet = EL. 742.2
(See detail "G2")

Borrow area #3
Bottom EL. 740.6
(See details "D1" &"D2")

150 75 0 150 300
Scale in Feet

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SKY VIEW FINANCIAL WETLAND
DESIGN DETAIL MAP

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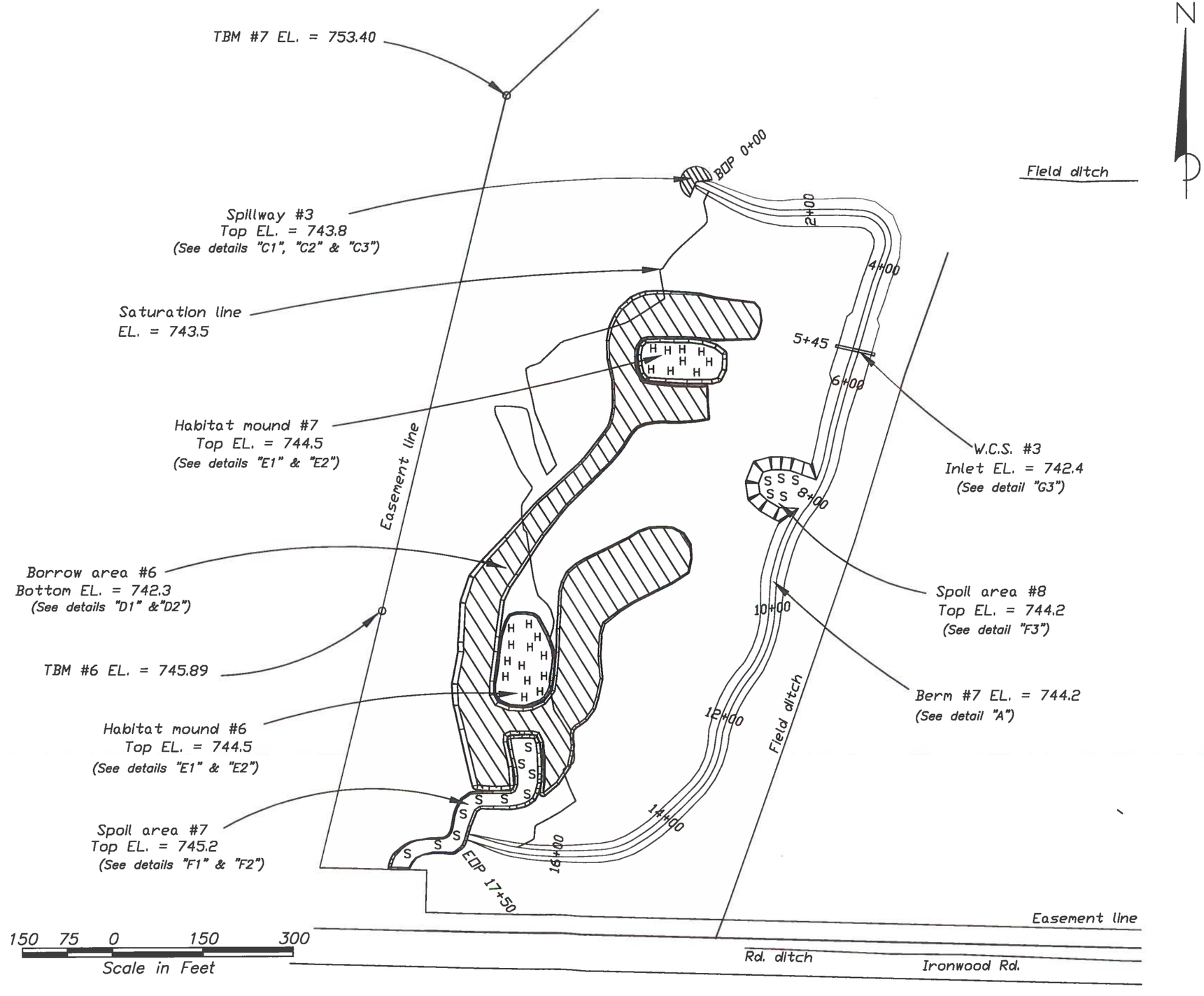
Southwest field



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SKY VIEW FARMS WETLAND FINANCIAL
DESIGN DETAIL MAP

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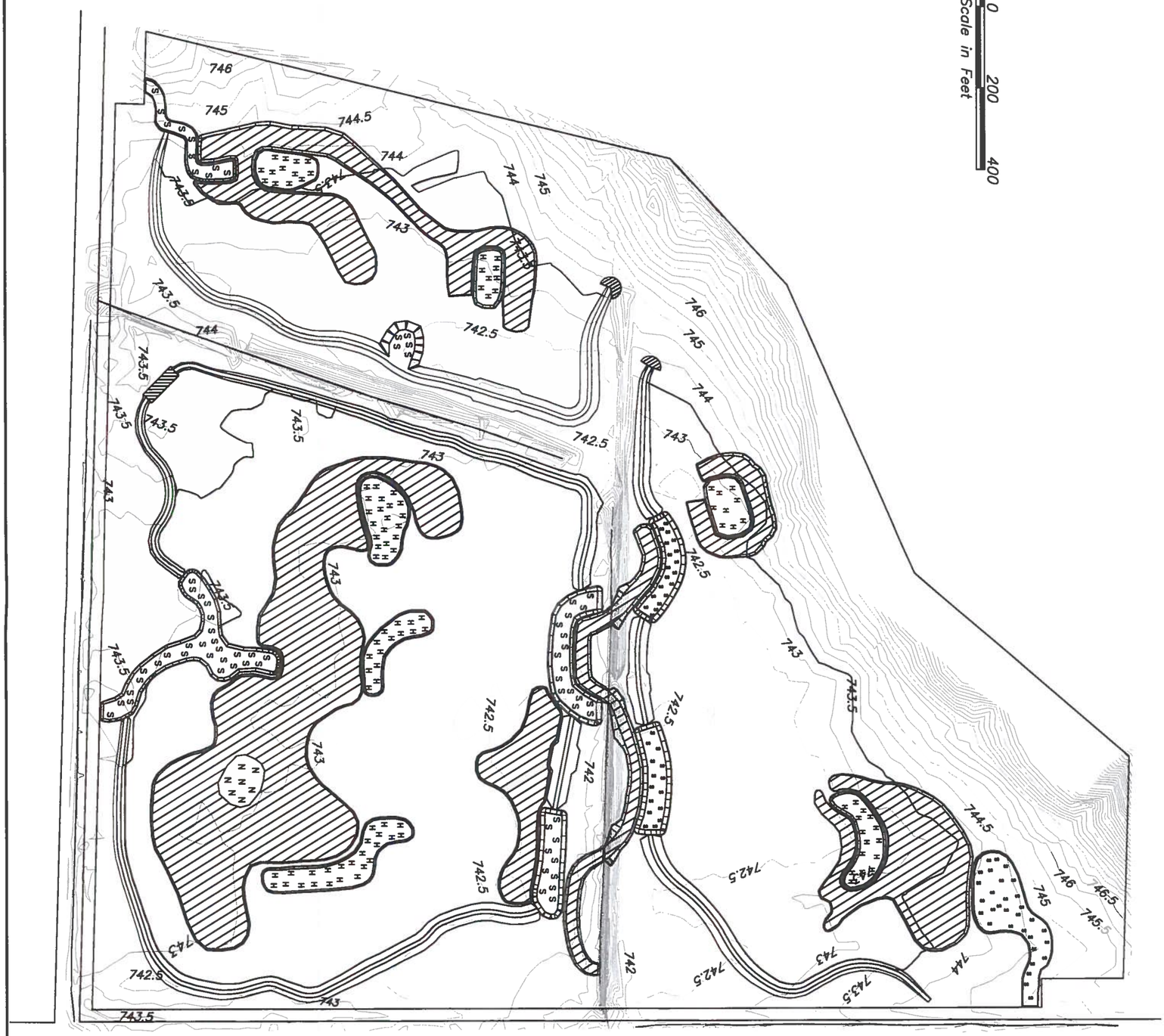

Sheet 5 of 11

Drawing Name

File Name

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United States Department of Agriculture

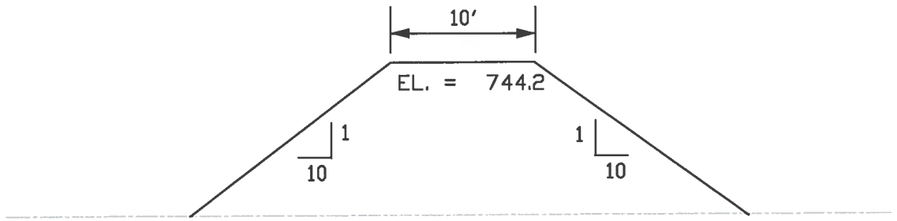
SKY VIEW FINANCIAL WETLAND TOPOGRAPHY MAP

		Date
Designed	J.A. Gibson	02-01-2013
Drawn	J.A. Gibson	02-01-2013
Checked	Bruce Embrey	04-01-2013
Approved	J.A. Gibson	04-04-2013

NOTES:

1. The centerline of the berms will be flagged by NRCS. The contractor will be responsible for staking the toes of the slopes.
2. Strip all areas where the berms will be built before placing fill.
3. Fill material for the berms will only be taken from borrow areas as shown on sheets 4A - 4C of 11 and to designated depths.
4. All fill material must be clean of vegetation and/or rooty material. NRCS will reject fill material that contains inordinate amounts of vegetation.
5. Earthfill shall be placed in horizontal layers not to exceed 8" in thickness. Each layer shall be compacted by two (2) complete passes of the loaded scrapper or sheep foot.
6. The berms will be seeded. See attached NRCS's seeding requirements.

BERM SUMMARY						
NAME	YARDAGE cu.yds.	SEEDED AREA ac.	TOP ELEVATION	TOP WIDTH ft.	LENGTH ft.	SIDE SLOPES
Berm #1	1840	1.30	744.2	10	1651	10:1
Berm #2	770	0.30	744.2	10	241	10:1
Berm #3	1260	1.20	744.2	10	1924	10:1
Berm #4	1070	0.70	744.2	10	916	10:1
Berm #5	610	0.30	744.2	10	276	10:1
Berm #6	450	0.30	744.2	10	387	10:1
Berm #7	2460	1.50	744.2	10	1750	10:1
Totals:	8460	5.60				



DETAIL "A"

Berms #1, #4, & #6 x-sect.

Berm #2 x-sect.
Sta. 0+00 - Sta. 1+00
Sta. 1+50 - Sta. 2+41

Berm #3 x-sect.
Sta. 0+00 - Sta. 13+20
Sta. 14+20 - Sta. 19+24

Berm #5 x-sect.
Sta. 0+00 - Sta. 0+85
Sta. 1+25 - Sta. 2+76

Berm #7 x-sect.
Sta. 0+00 - Sta. 4+95
Sta. 5+95 - Sta. 17+50

NOT TO SCALE

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SKY VIEW FINANCIAL WETLAND
BERM DETAILS

United States Department of Agriculture
Natural Resources Conservation Service
NRCS
WETS 4
727 PCA Rd.
Warrensburg, MO 64093

File Name

Drawing Name

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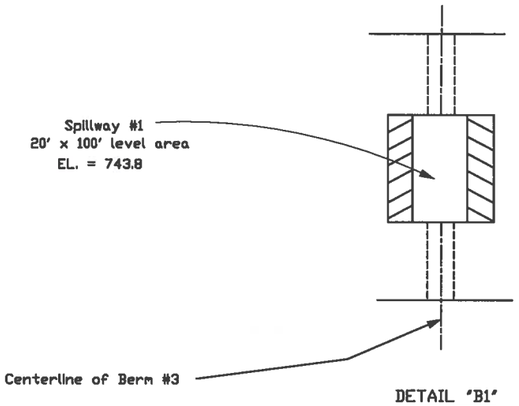
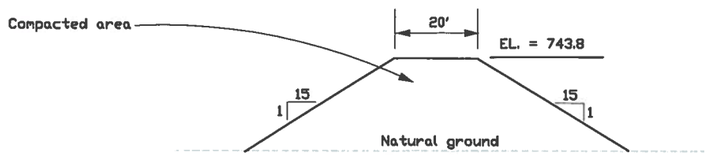
NOTES:

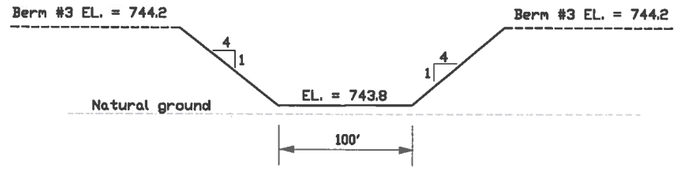
1. The centerline of spillway #1 will be flagged by NRCS. The contractor will be responsible for staking the top width and toes of the slopes.
2. Strip the area where spillway #1 will be built before placing fill.
3. Construct spillway #1 exactly as shown below.
4. All fill material must be clean of vegetation and/or rooty material. NRCS will reject fill material that contains inordinate amounts of vegetation.
5. Fill material for spillway #1 will only be taken from borrow areas as shown on sheet 4A of 11 and to designated depths.
6. Earthfill shall be placed in horizontal layers not to exceed 6" in thickness. Each layer shall be compacted by two (2) complete passes of the loaded scrapper or sheep foot.
7. The perimeter of spillways #2 & #3 will be flagged by NRCS. The contractor will be responsible for staking the toes of the slopes.
8. Cut spillways #2 & #3 down to the exact elevation and dimensions shown.
9. The spillways will be seeded. See attached NRCS's seeding requirements.



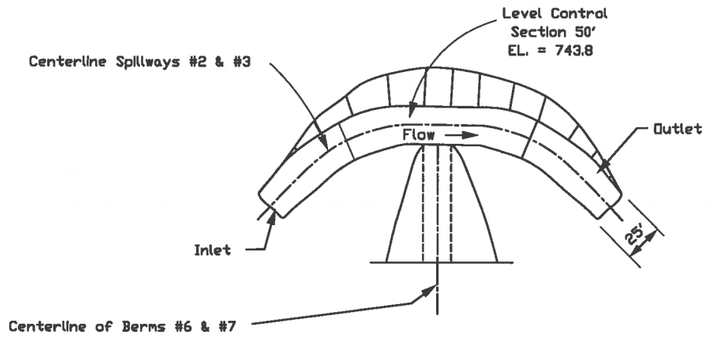
DETAIL 'B1'
Spillway #1
Plan view



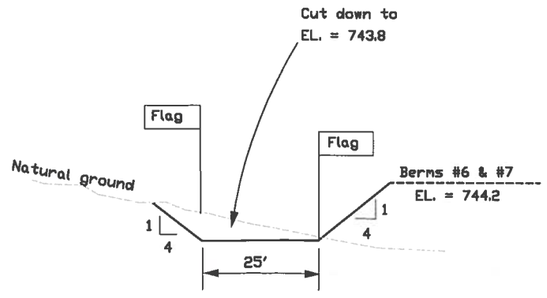
DETAIL 'B2'
Spillway #1
Profile



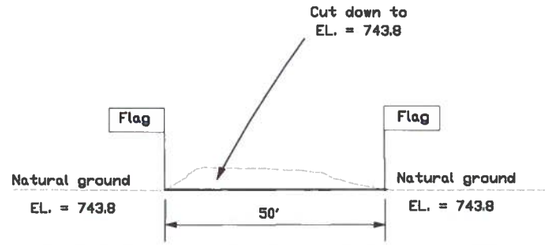
DETAIL 'B3'
Spillway #1
X-section



DETAIL 'C1'
Spillways #2 & #3
Plan view



DETAIL 'C2'
Spillways #2 & #3
X-section



DETAIL 'C3'
Spillways #2 & #3
Profile

NOT TO SCALE

Date
Designed J.A. Gibson 02-01-2013
Drawn J.A. Gibson 02-01-2013
Checked Bruce Embrey 04-01-2013
Approved J.A. Gibson 04-04-2013

SKY VIEW FINANCIAL WETLAND
SPILLWAY DETAILS

United States Department of Agriculture
Natural Resources Conservation Service
NRCS
WETS 4
727 PCA Rd.
Warrensburg, MO 64093

File Name

Drawing Name

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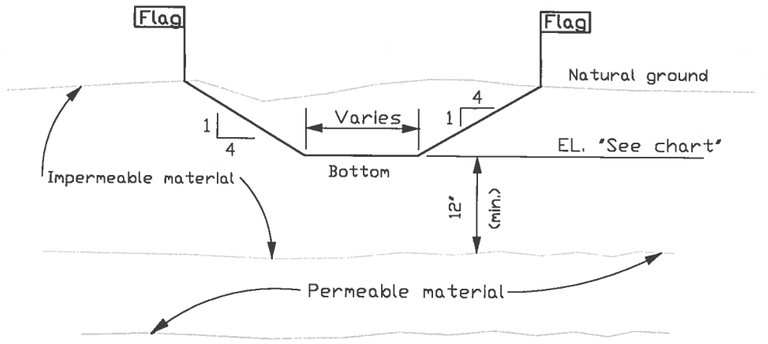
Sheet 7 of 11

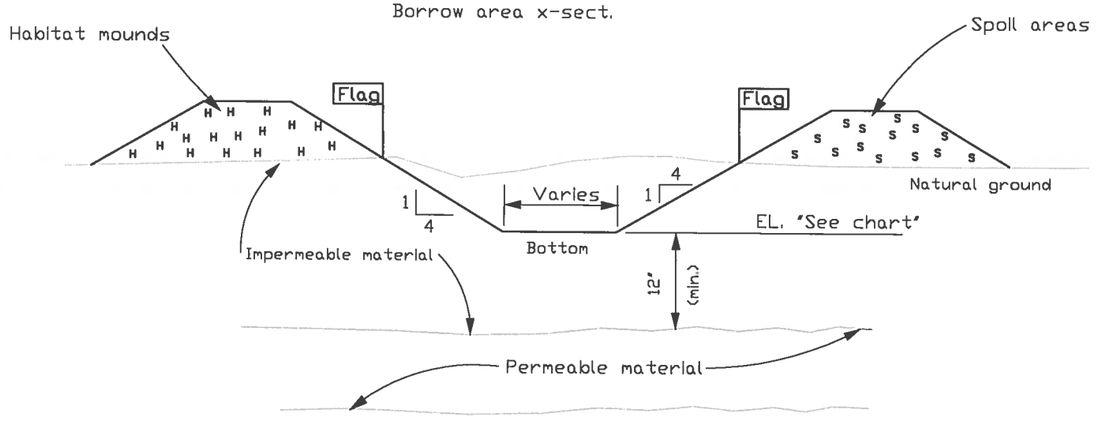
NOTES:

1. The borrow areas shown on sheets 4A - 4C of 11 are the only allowable areas for excavation.
2. Perimeter of borrow areas will be flagged in the field by NRCS. The contractor will be responsible for staking the toes of the slopes.
3. Strip borrow areas before removing fill.
4. All fill material for berms must be clean of vegetation and/or rooty material. NRCS will reject fill material that contains inordinate amounts of vegetation.
5. Stripped material can be placed in spoil areas and habitat mounds.
6. No borrow shall be taken within 30' of either toe of the berms unless shown on sheets 4A - 4C of 11.
7. If a permeable area is encountered, the contractor will stop excavation immediately. A minimum of 12" compacted impermeable material will be replaced over this area. The contractor will contact NRCS for instructions for moving to a new area to continue borrowing for fill.
8. Excavated materials from the borrow areas will go to the location designated in the chart below.
9. If the borrow areas have been excavated as laid out and to the design requirements and additional construction material is still needed to complete the project, contact NRCS WETS team for instructions.
10. As soon as all the berms, spoil areas & habitat mounds have been completed as laid out and to design requirements, immediately stop excavating material from the borrow areas.



Detail "D1"

Borrow area x-sect.



Detail "D2"

Borrow area x-sect.
adjacent to spoil areas or habitat mounds

BORROW AREA SUMMARY

NAME	APPROX. YARDAGE cu.yds.	BOTTOM ELEVATION	CLEARING AC.	SIDE SLOPES	*LOCATION FOR EXCAVATED MATERIAL
Borrow area #1	12,240	742	7.50	4:1	Berms #1 & #3 Spoil areas #1 - #3 & Hab. md. #1 - #3
Borrow area #2	1640	741.5	1.10	4:1	Berm #2 Spoil areas #2, #3 & #5
Borrow area #3	3150	740.6	1.20	4:1	Berms #5 & #6 Spoil areas #5 & #6
Borrow area #4	3310	742.3	2.20	4:1	Berm #4 Spoil area #4 & Hab. md. #4
Borrow area #5	1170	742	0.70	4:1	Berm #6 Hab. md. #5
Borrow area #6	4400	742.3	2.70	4:1	Berm #7 Spoil area #7 & Hab. mds. #6 & #7
TOTALS:	25,910		15.40		

*NOTE: Contractor may rearrange locations for excavated material if in his opinion it would save him time and/or expenses.

NOT TO SCALE:

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SKY VIEW FINANCIAL WETLAND
BORROW AREA DETAILS

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NRCS Natural Resources Conservation Service
WETS 4
727 PCA Rd.
Warrensburg, MO 64093

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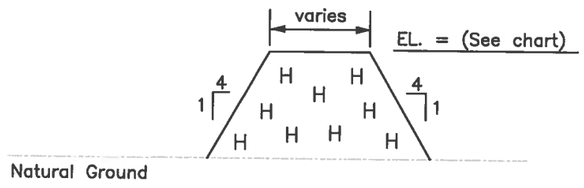
Sheet 8 of 11

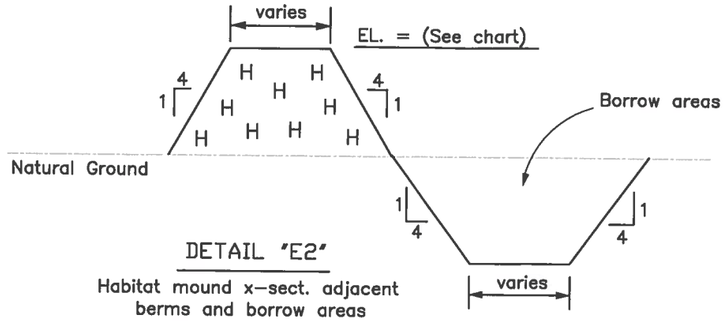
NOTES:

1. The perimeter of the habitat mounds will be flagged by NRCS. The contractor will be responsible for staking the toes of the slopes.
2. Do not strip the areas where the habitat mounds will be built before placing fill.
3. Fill material for the habitat mounds will only be taken from borrow areas as shown on sheets 4A – 4C of 11 and to designated depths.
4. Habitat mounds must be smooth enough to allow owner to bush hog with standard equipment.
5. Do not seed the habitat mounds.



DETAIL "E1"

Habitat mound x–sect.



DETAIL "E2"

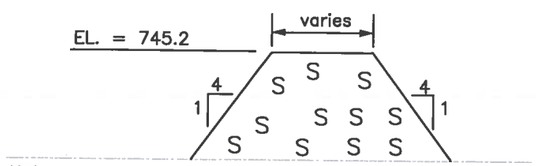
Habitat mound x–sect. adjacent berms and borrow areas

HABITAT MOUND SUMMARY						
NAME	YARDAGE cu.yds.	SEEDED AREA ac.	TOP ELEVATION	TOP WIDTH ft.	LENGTH ft.	SIDE SLOPES
Habitat md. #1	1090	N/A	744	varies	varies	4:1
Habitat md. #2	610	N/A	744	varies	varies	4:1
Habitat md. #3	730	N/A	744	varies	varies	4:1
Habitat md. #4	690	N/A	744	varies	varies	4:1
Habitat md. #5	510	N/A	744	varies	varies	4:1
Habitat md. #6	350	N/A	744.5	varies	varies	4:1
Habitat md. #7	500	N/A	744.5	varies	varies	4:1
Total:	4480					

(Not to Scale)

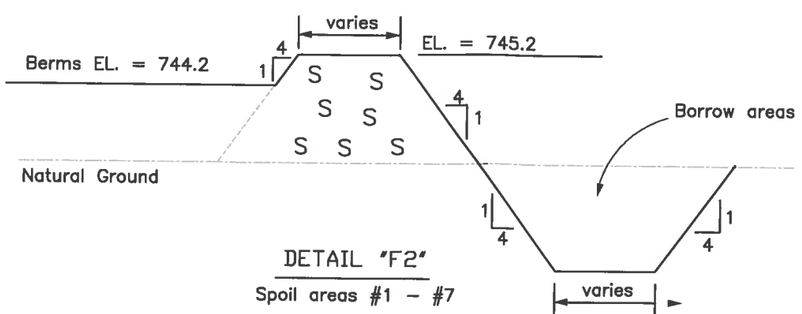
NOTES:

1. The perimeter of the spoil areas will be flagged by NRCS. The contractor will be responsible for staking the toes of the slopes.
2. Do not strip the areas where the spoil areas will be built before placing fill.
3. Fill material for the spoil areas will only be taken from borrow areas as shown on sheets 4A – 4C of 11 and to designated depths.
4. Spoil areas must be smooth enough to allow owner to bush hog with standard equipment.
5. Do not seed the spoil areas.



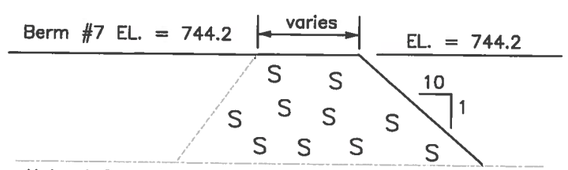
DETAIL "F1"

Spoil areas #1 – #7 x–sections



DETAIL "F2"

Spoil areas #1 – #7 X–sections adjacent to berms and/or borrow areas



DETAIL "F3"

Spoil area #8 x–sect. adjacent to berm #7

SPOIL AREA SUMMARY						
NAME	YARDAGE cu.yds.	SEEDED AREA ac.	TOP ELEVATION	TOP WIDTH ft.	LENGTH ft.	SIDE SLOPES
Spoil area. #1	2330	N/A	745.2	N/A	N/A	4:1
Spoil area. #2	1450	N/A	745.2	N/A	N/A	10:1
Spoil area. #3	2060	N/A	745.2	N/A	N/A	10:1
Spoil area. #4	950	N/A	745.2	N/A	N/A	4:1
Spoil area. #5	1660	N/A	745.2	N/A	N/A	4:1
Spoil area. #6	1400	N/A	745.2	N/A	N/A	4:1
Spoil area. #7	410	N/A	745.2	N/A	N/A	4:1
Spoil area. #8	310	N/A	744.2	N/A	N/A	4:1
Total:	10,570					

(Not to Scale)

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Approved J.A. Gibson 04-04-2013

SKY VIEW FINANCIAL WETLAND HABITAT MOUND & SPOIL AREA DETAILS

United States Department of Agriculture
Natural Resources Conservation Service
NRCS

File Name

Drawing Name

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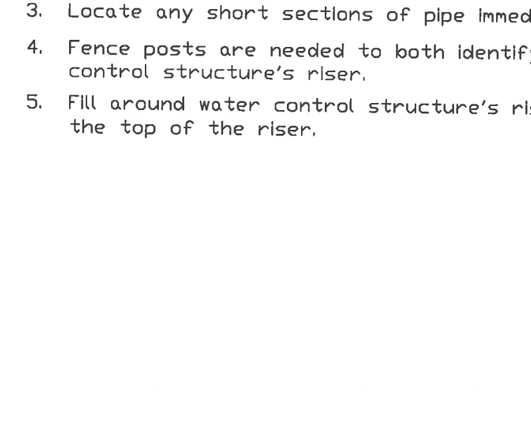
Sheet 9 of 11

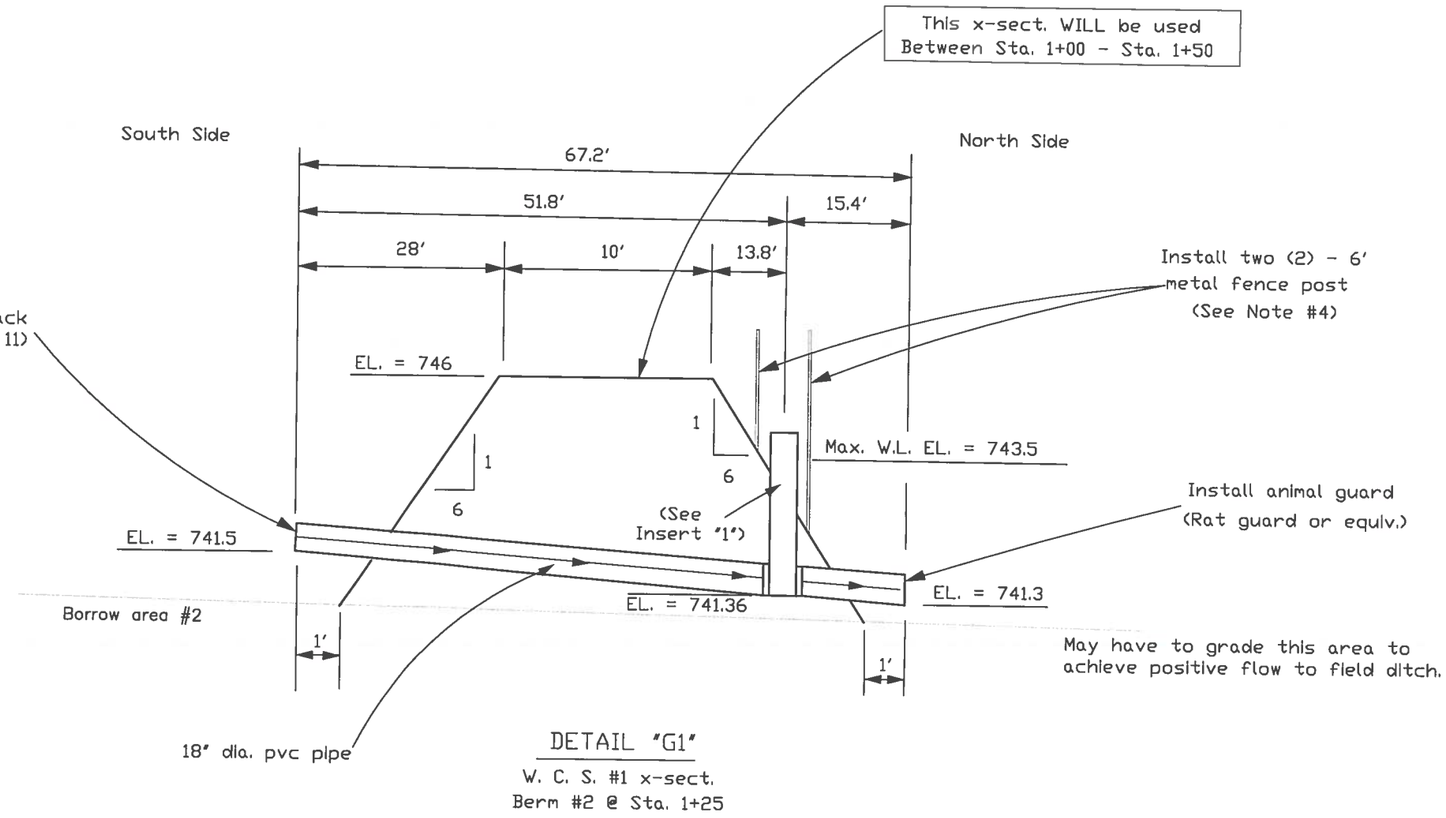
NOTES:

1. Water control structure #1 will be a 3' tall (min. 22.5' weir length) Agri-Drain, ADS or equivalent inline water level control structure and 68' of 18" dia. SDR 35 pvc pipe conforming to ASTM D3034 or PS46 pvc pipe conforming to ASTM F679.
2. ALL pipe joints and structure connections must be water tight. The contractor shall be fully responsible for any and all work required to correct leakage.
3. Locate any short sections of pipe immediately adjacent to the structure.
4. Fence posts are needed to both identify the location and protect the water control structure's riser.
5. Fill around water control structure's riser WILL be approximately 0.5' below the top of the riser.
6. Rubber tire, hand or manually directed power tamper will be used on backfill around all pipes and structures. Water packing will be allowed.
7. Construct a smooth and maintainable transition from this reach to adjacent reaches.
8. Inspection by NRCS of water control structure and pipes is required. Contractor must give 24 hours notice before work on water control structure begins.
9. Contractor will spray with red paint a line at EL. = 743.5 on inside of WCS to show the maximum water level.
10. May have to trim the top board to achieve the correct water line elevation in the water control structure.



INSERT "1"

Water Control Structure Detail



DETAIL "G1"

W. C. S. #1 x-sect.
Berm #2 @ Sta. 1+25

NOT TO SCALE:

Date
Designed J.A. Gibson 02-01-2013
Drawn J.A. Gibson 02-01-2013
Checked Bruce Embrey 04-01-2013
Approved J.A. Gibson 04-04-2013

SKY VIEW FINANCIAL WETLAND WATER CONTROL STRUCTURE DETAILS

United States Department of Agriculture
Natural Resources Conservation Service
NRCS
WETS 4
727 POA. Rd.
Warrensburg, MO 64093

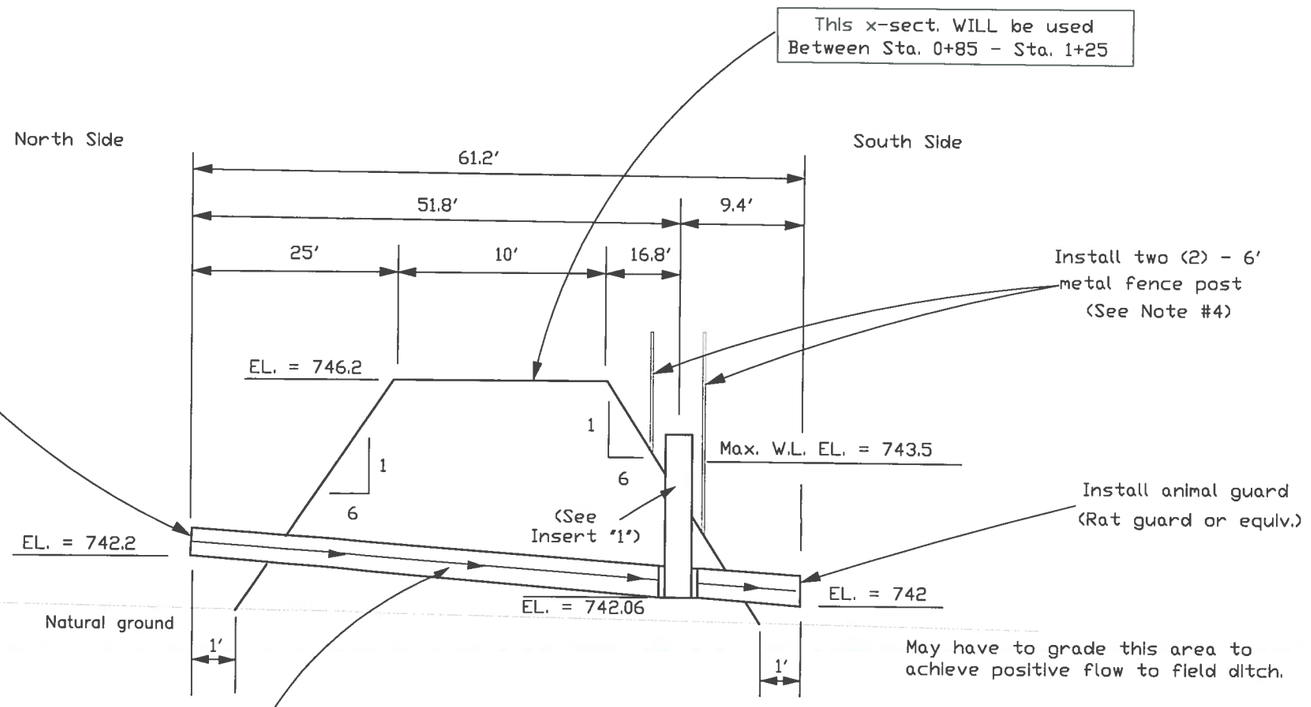
File Name

Drawing Name

4/22/13 9:44
Sheet 10A of 11

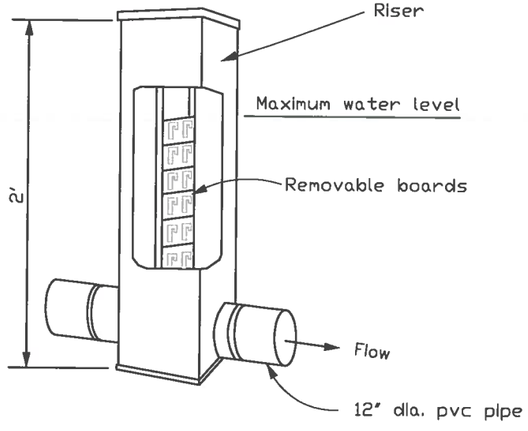
NOTES:

1. Water control structure #2 will be a 2' tall (min. 14' weir length) Agri-Drain, ADS or equivalent inline water level control structure and 62' of 12" dia. SDR 35 pvc pipe conforming to ASTM D3034.
2. ALL pipe joints and structure connections must be water tight. The contractor shall be fully responsible for any and all work required to correct leakage.
3. Locate any short sections of pipe immediately adjacent to the structure.
4. Fence posts are needed to both identify the location and protect the water control structure's riser.
5. Fill around water control structure's riser WILL be approximately 0.5' below the top of the riser.
6. Rubber tire, hand or manually directed power tamper will be used on backfill around all pipes and structures. Water packing will be allowed.
7. Construct a smooth and maintainable transition from this reach to adjacent reaches.
8. Inspection by NRCS of water control structure and pipes is required. Contractor must give 24 hours notice before work on water control structure begins.
9. Contractor will spray with red paint a line at EL. = 743.5 on inside of WCS to show the maximum water level.
10. May have to trim the top board to achieve the correct water line elevation in the water control structure.



DETAIL "G2"

W. C. S. #2 x-sect.
Berm #6 @ Sta. 1+05



INSERT "1"

Water Control Structure Detail

NOT TO SCALE:

Date
Designed J.A. Gibson 02-01-2013
Drawn J.A. Gibson 02-01-2013
Checked Bruce Embrey 04-01-2013
Approved J.A. Gibson 04-04-2013

SKY VIEW FINANCIAL WETLAND
WATER CONTROL STRUCTURE DETAILS

United States Department of Agriculture
NRCS Natural Resources Conservation Service
WETS 4
727 PCA. Rd.
Warrensburg, MO 64093

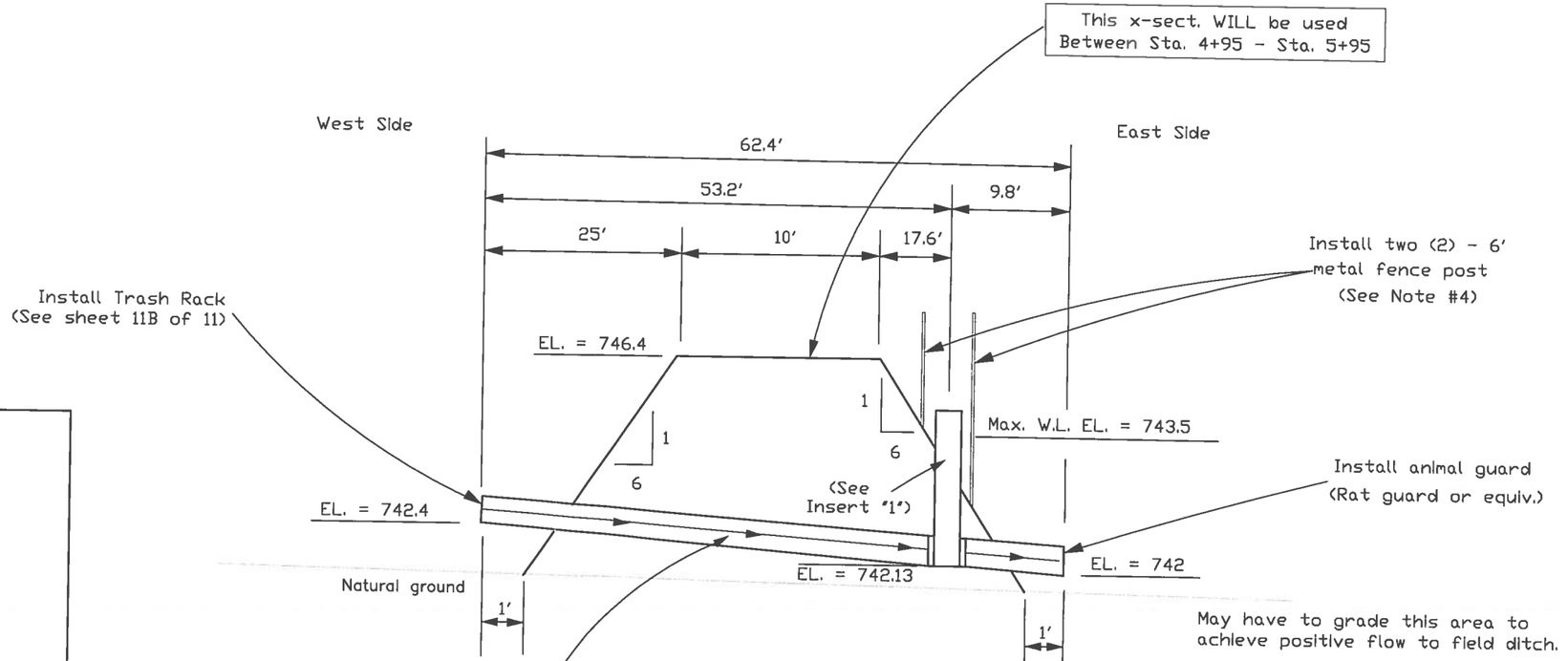
File Name

Drawing Name

4/22/13 9:44
Sheet 10B of 11

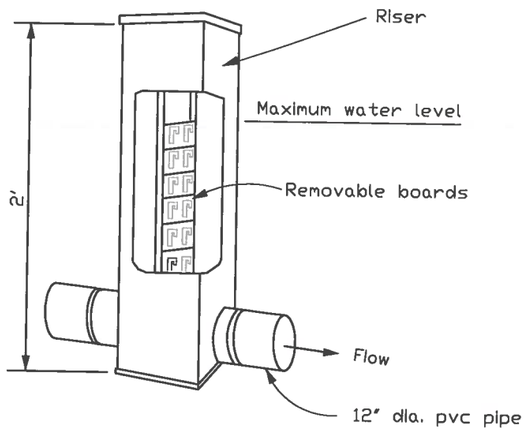
NOTES:

1. Water control structure #3 will be a 2' tall (min. 14' weir length) Agri-Drain, ADS or equivalent inline water level control structure and 63' of 12" dia. SDR 35 pvc pipe conforming to ASTM D3034.
2. ALL pipe joints and structure connections must be water tight. The contractor shall be fully responsible for any and all work required to correct leakage.
3. Locate any short sections of pipe immediately adjacent to the structure.
4. Fence posts are needed to both identify the location and protect the water control structure's riser.
5. Fill around water control structure's riser WILL be approximately 0.5' below the top of the riser.
6. Rubber tire, hand or manually directed power tamper will be used on backfill around all pipes and structures. Water packing will be allowed.
7. Construct a smooth and maintainable transition from this reach to adjacent reaches.
8. Inspection by NRCS of water control structure and pipes is required. Contractor must give 24 hours notice before work on water control structure begins.
9. Contractor will spray with red paint a line at EL. = 743.5 on inside of WCS to show the maximum water level.
10. May have to trim the top board to achieve the correct water line elevation in the water control structure.



DETAIL "G3"

W. C. S. #3 x-sect.
Berm #7 @ Sta. 5+45



INSERT "1"

Water Control Structure Detail

NOT TO SCALE:

Date
Designed J.A. Gibson 02-01-2013
Drawn J.A. Gibson 02-01-2013
Checked Bruce Embrey 04-01-2013
Approved J.A. Gibson 04-04-2013

SKY VIEW FINANCIAL WETLAND WATER CONTROL STRUCTURE DETAILS

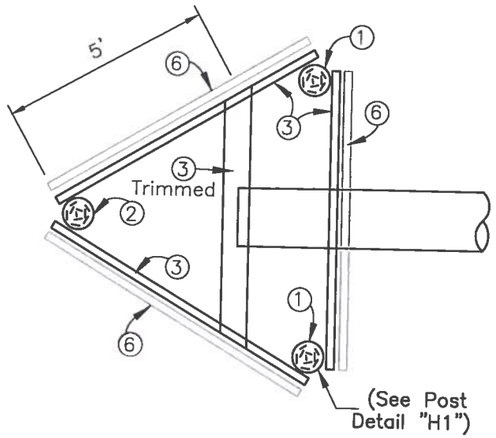
United States Department of Agriculture
Natural Resources Conservation Service
NRCS
WETS 4
727 PCA. Rd.
Warrensburg, MO 64093

File Name

Drawing Name

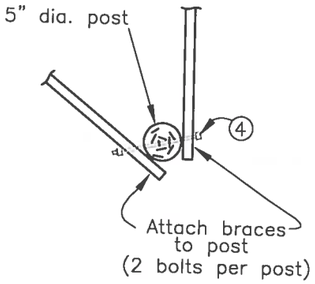
4/22/13 9:44

Sheet 10C of 11

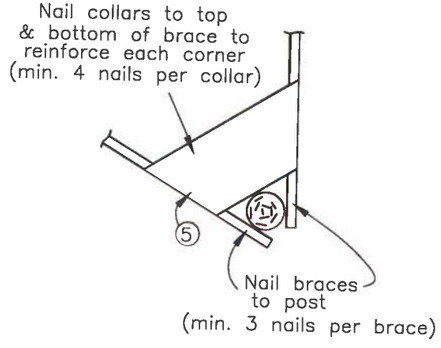


PLAN

BILL OF MATERIALS			
MARK	QUAN	DESCRIPTION	LENGTH
1	2	5" Dia. Wood Post – Pressure Treated	7'–0"
2	1	5" Dia. Wood Post – Pressure Treated	8–0"
3	4	2"x 6" Wood Brace – Pressure Treated	8'–0"
4	6	3/8" Bolt w/nut & washers (Galv or paint w/asphaltic materials)	
5	6	2"x6" Collar – Pressure Treated (optional for 3/8" bolts)	
		16d common Nails – Hot Dipped Galvanized or Stainless steel	
		Wire Staples – Hot Dipped Galvanized or Stainless steel	1 1/4"
6	4	Feedlot Panels – Min. 36" High	8'–0"

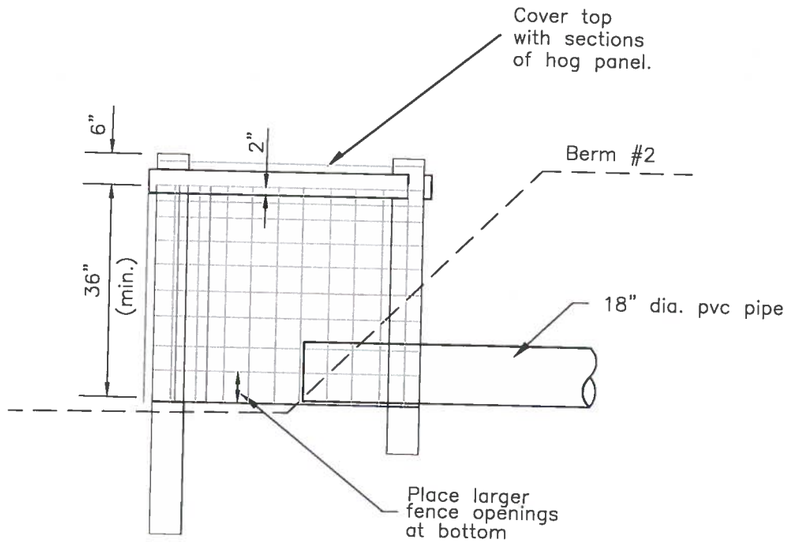


STANDARD

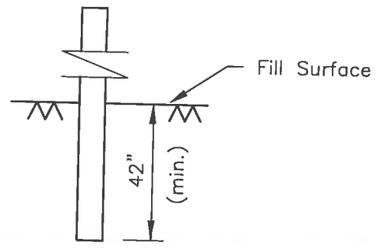


OPTIONAL

DETAIL "H1"



SIDE ELEVATION



POST ANCHORAGE

NOTES:

1. Minimum height of hog panel to be 34" or 52" for cattle panel. The minimum length of Mark 1 posts to be 7' for hog panel and 8 1/2' for cattle panel.
2. The feedlot panels shall be fastened to each post and brace with 2 strands per loop of 10 gage insulated copper wire securely twisted. Insulation can be THHN or THWN. Spacing of wire loops shall not exceed 2 feet with minimum 2 loops per post and 5 loops per brace.
3. Panels shall be ¼" galvanized steel rods welded together to form a panel. Maximum spacing of rods shall be 6 inches vertical and 8 inches horizontal.
4. Panels placed across top shall be securely fastened together as shown in Note 2. Trim panels to fit.
5. This detail shall only be used on low head, low velocity wetland pipes.
6. Trim Mark 3 top brace as needed. Nail to top of other Mark 3 braces.
7. Bronzed 3" long deck screws may be used in lieu of galvanized 16d common nails.

Revised 9/07

(LARGE)

NOT TO SCALE:

Date
Designed J.A. Gibson 02-01-2013
Drawn J.A. Gibson 02-01-2013
Checked Bruce Embrey 04-01-2013
Approved J.A. Gibson 04-04-2013

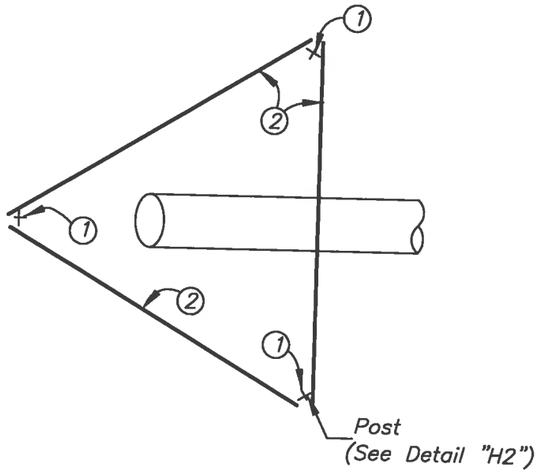
SKY VIEW FINANCIAL WETLAND TRASH RACK DETAILS

United States Department of Agriculture
Natural Resources Conservation Service
NRCS

File Name

Drawing Name

4/22/13 9:44

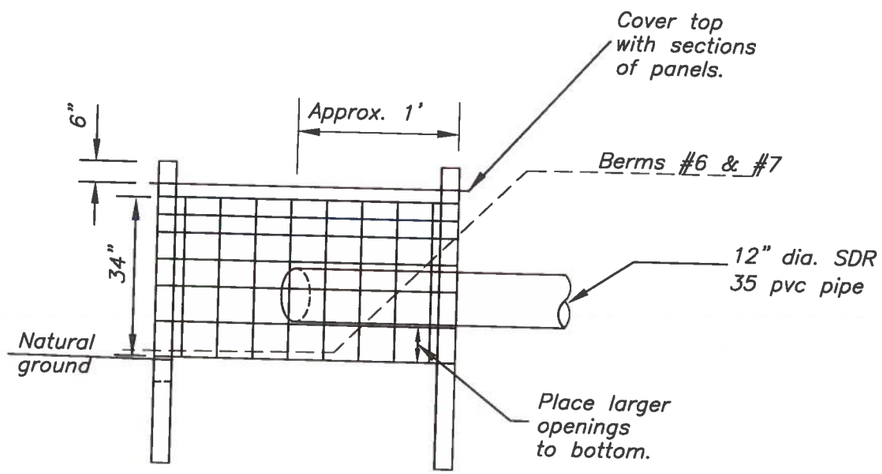


PLAN

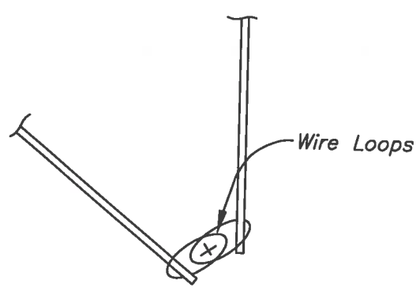
BILL OF MATERIALS (EACH)			
MARK	QUAN	DESCRIPTION	LENGTH
1	3	Metal T-Post	min 5 1/2'
2	4	Panels – Min. 34" high	4'-0"
3	---	Wire Loops (as needed)	

NOTES:

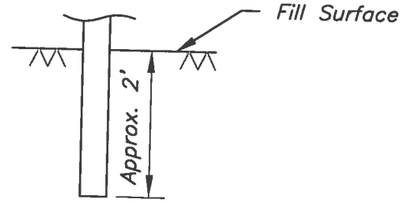
1. Minimum height of hog panel to be 34" or 52" for cattle panel. The minimum length of Mark 1 posts to be 5 1/2' for hog panel and 7' for cattle panel.
2. The feedlot panels shall be fastened to each post with 2 strands per loop of 10 gage insulated copper wire securely twisted. Insulation can be THHN or THWN. Spacing of wire loops shall not exceed 2' with minimum 2 loops per post.
3. Panels shall be ¼" galvanized steel rods welded together to form a panel. Maximum spacing of rods shall be 6" vertical and 8" horizontal.
4. Panels placed across top shall be securely fastened together as described in Note 2 and trimmed to fit.
5. This trash rack detail shall only be used on low head, low velocity wetland pipes.



SIDE ELEVATION



DETAIL "H2"



POST ANCHORAGE

(SMALL)

NOT TO SCALE:

4/04

SKY VIEW FINANCIAL WETLAND
TRASH RACK DETAILS

Designed	J.A. Gibson 02-01-2013
Drawn	J.A. Gibson 02-01-2013
Checked	Bruce Embrey 04-01-2013
Approved	J.A. Gibson 04-04-2013

United States Department of Agriculture
Natural Resources Conservation Service
NRCS
WETS 4
727 PCA. Rd.
Warrensburg, MO 64093

File Name

Drawing Name

4/22/13 9:44

Sheet 11B of 11