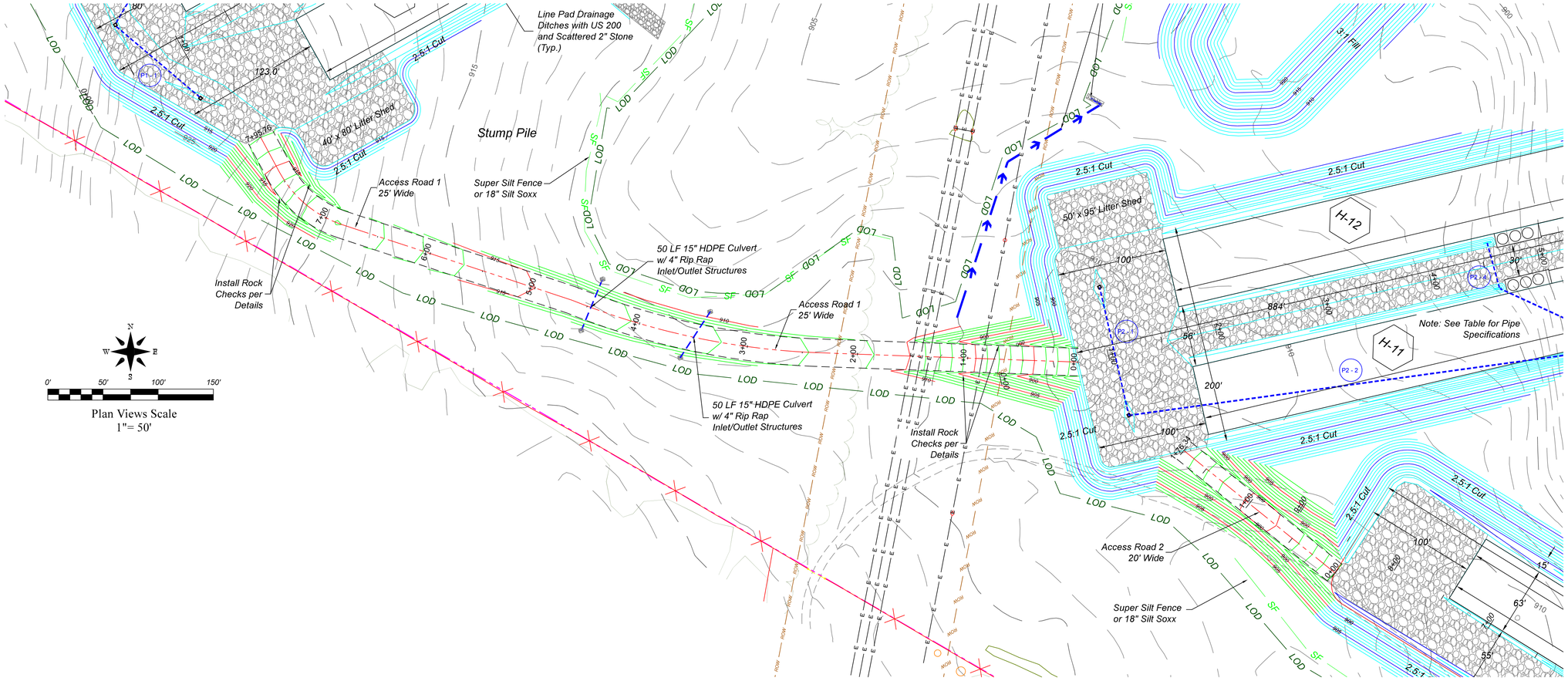
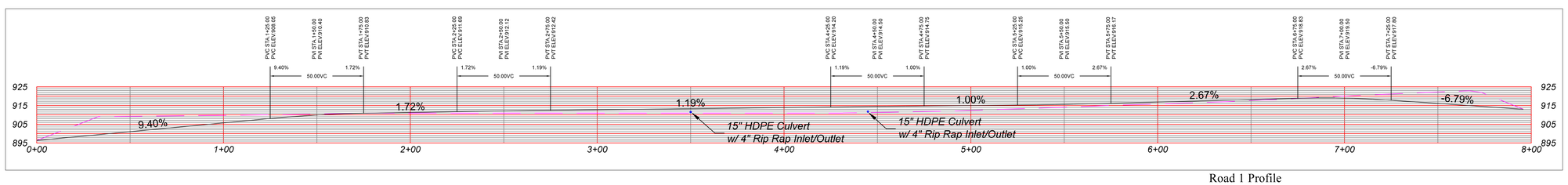
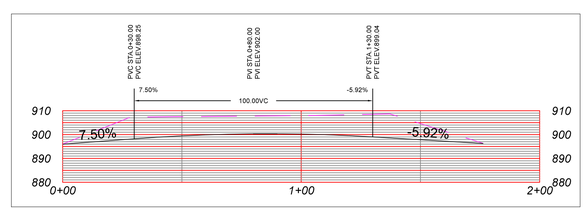
ROAD 1 AND ROAD 2 PLANS AND PROFILES





Road 1 Profile
Scale 1"= 30'



Road 2 Profile
Scale 1"= 30'

Legend

- Existing 1' Contour
- Existing 5' Contour
- Existing Tree Line
- Existing Utility Line / Pole
- Surface Owner Property Line
- LOD — Limits of Disturbance
- Proposed Diversion Ditch
- Proposed 1' Contour
- Proposed 5' Contour
- SF — Proposed Super Silt Fence
- Proposed Rock Check Dam
- Proposed Culvert W/ Inlet & Outlet Protection
- SW — Proposed Straw Wattles
- SSXX — Proposed Silt Soxx w/ Diameter
- Proposed 1' Road Contour
- Proposed 5' Road Contour
- Proposed Rip-Rap

* Silt Soxx Diameter in Inches
* 12" Silt Soxx Can be Substituted for Super Silt Fence in non-concentrated flow areas.

REVISIONS

DATE

CHARLES K. WILSON REGISTERED NO. 12483 STATE OF VIRGINIA PROFESSIONAL ENGINEER

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FAX: 304-257-2224
EMAIL: KIRKWILSONJW@OUTLOOK.COM

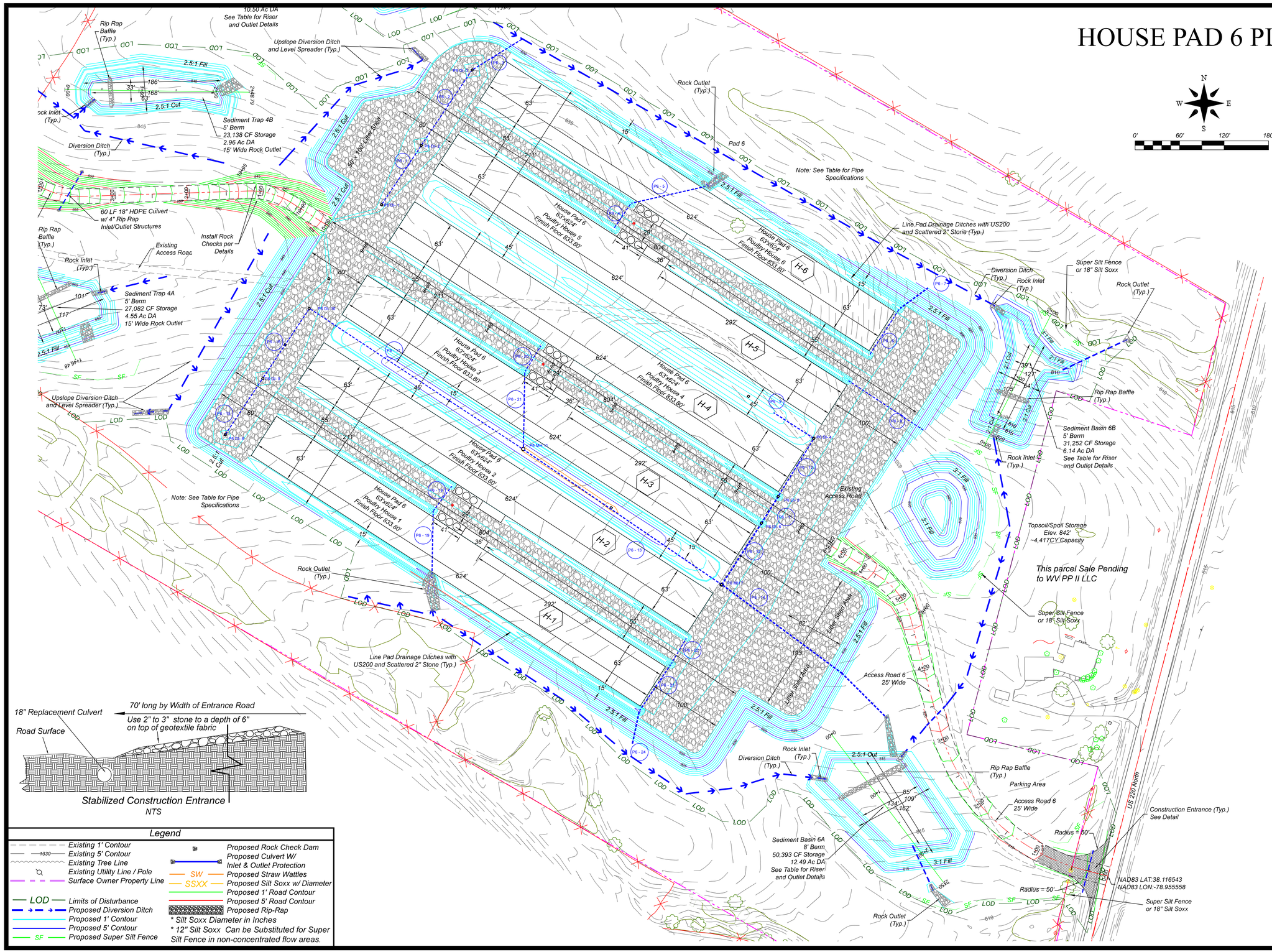
L & W Enterprises Incorporated

THIS DOCUMENT PREPARED FOR WVPP II LLC

ROAD 1 AND ROAD 2 PLANS AND PROFILES
WV POULTRY PARTNERS II LLC
POULTRY OPERATION
SITE DESIGN, EROSION & SEDIMENT CONTROL PLAN
MOOREFIELD DISTRICT
HARDY COUNTY, WV

Date: 3/16/20
Scale: 1" = 30'/50'
Designed By: CKW
File No. WVPPII_1-20

HOUSE PAD 6 PLAN



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WV POULTRY PARTNERS II LLC
POULTRY OPERATION
SITE DESIGN, EROSION & SEDIMENT CONTROL PLAN
MOOREFIELD DISTRICT
HARDY COUNTY, WV

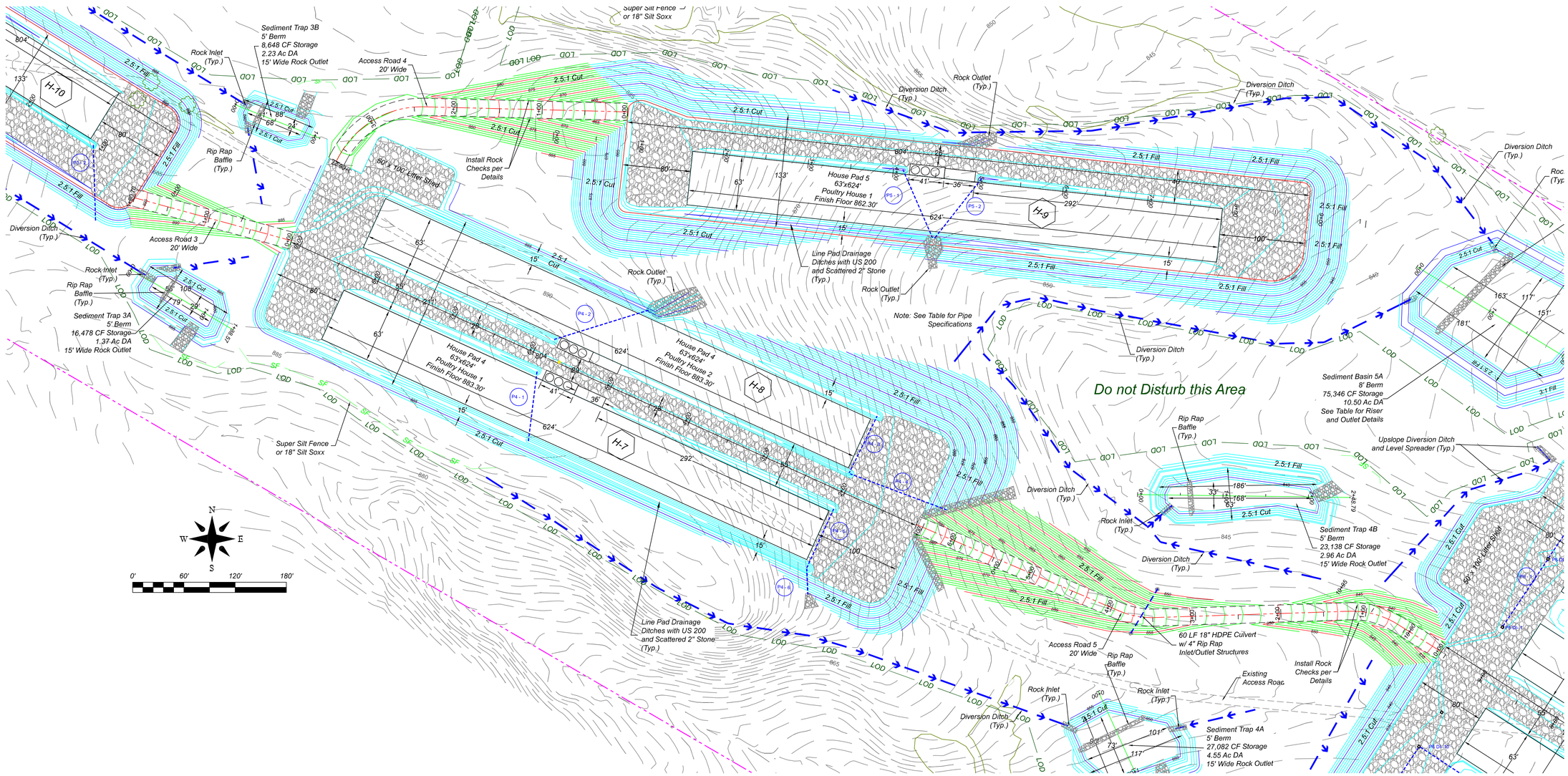
Date: 3/16/20

Scale: 1" = 60'

Designed By: CKW

File No. WVPPII_1-20

HOUSE PADS 4 AND 5 PLANS



Legend

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* Silt Soxx Diameter in Inches

* 12" Silt Soxx Can be Substituted for Super Silt Fence in non-concentrated flow areas.

REVISIONS	
DATE	

CHARLES K. WILSON REGISTERED PROFESSIONAL ENGINEER NO. 12483 STATE OF WEST VIRGINIA

L&W ENTERPRISES, INC.

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HOUSE PADS 4 AND 5 PLANS
WV POULTRY PARTNERS II LLC
POULTRY OPERATION
SITE DESIGN, EROSION & SEDIMENT CONTROL PLAN
MOOREFIELD DISTRICT
HARDY COUNTY, WV

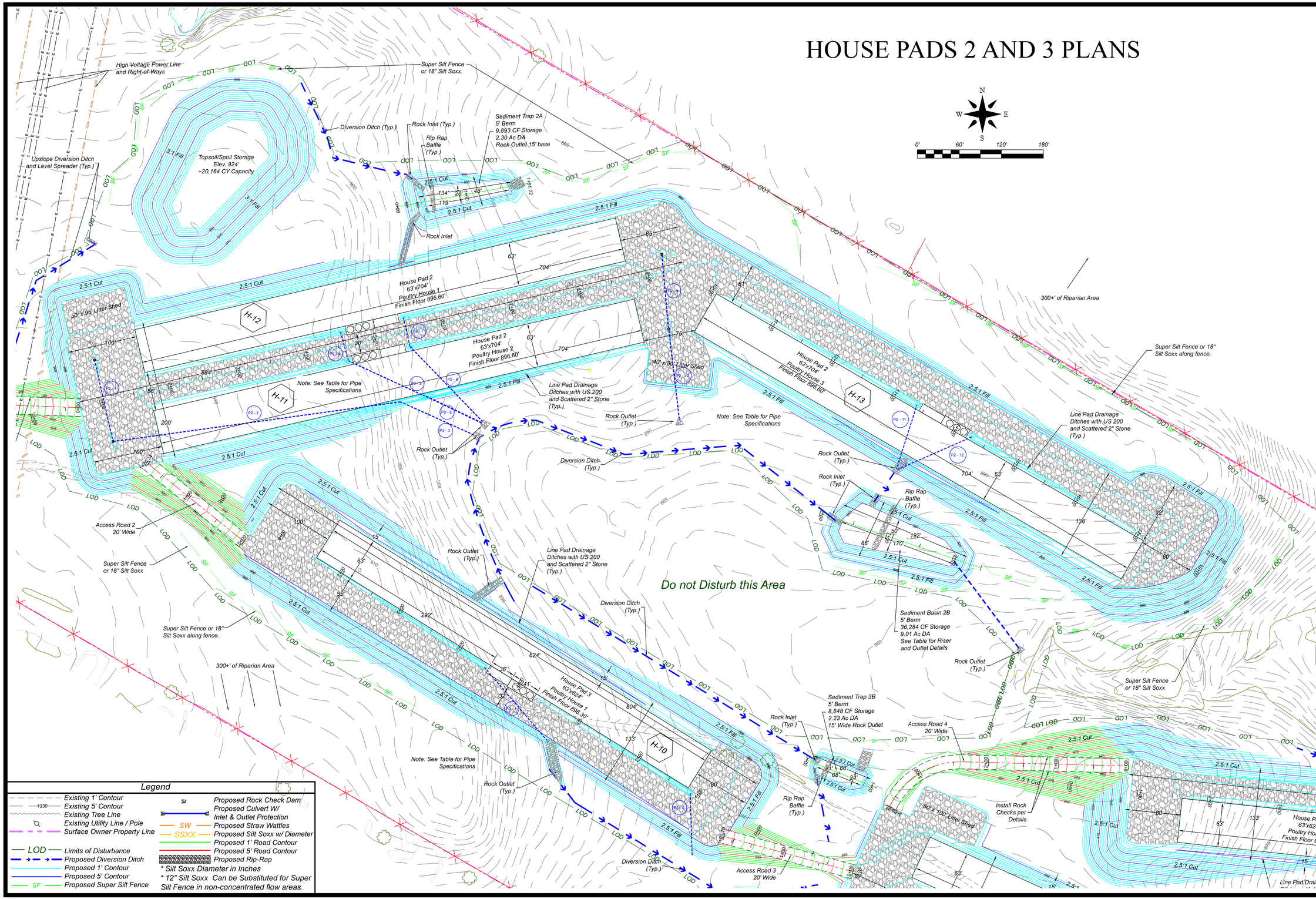
Date: 3/16/20

Scale: 1" = 60'

Designed By: CKW

File No. WVPPII_1-20

HOUSE PADS 2 AND 3 PLANS



Legend

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MOOREFIELD DISTRICT
HARDY COUNTY, WV

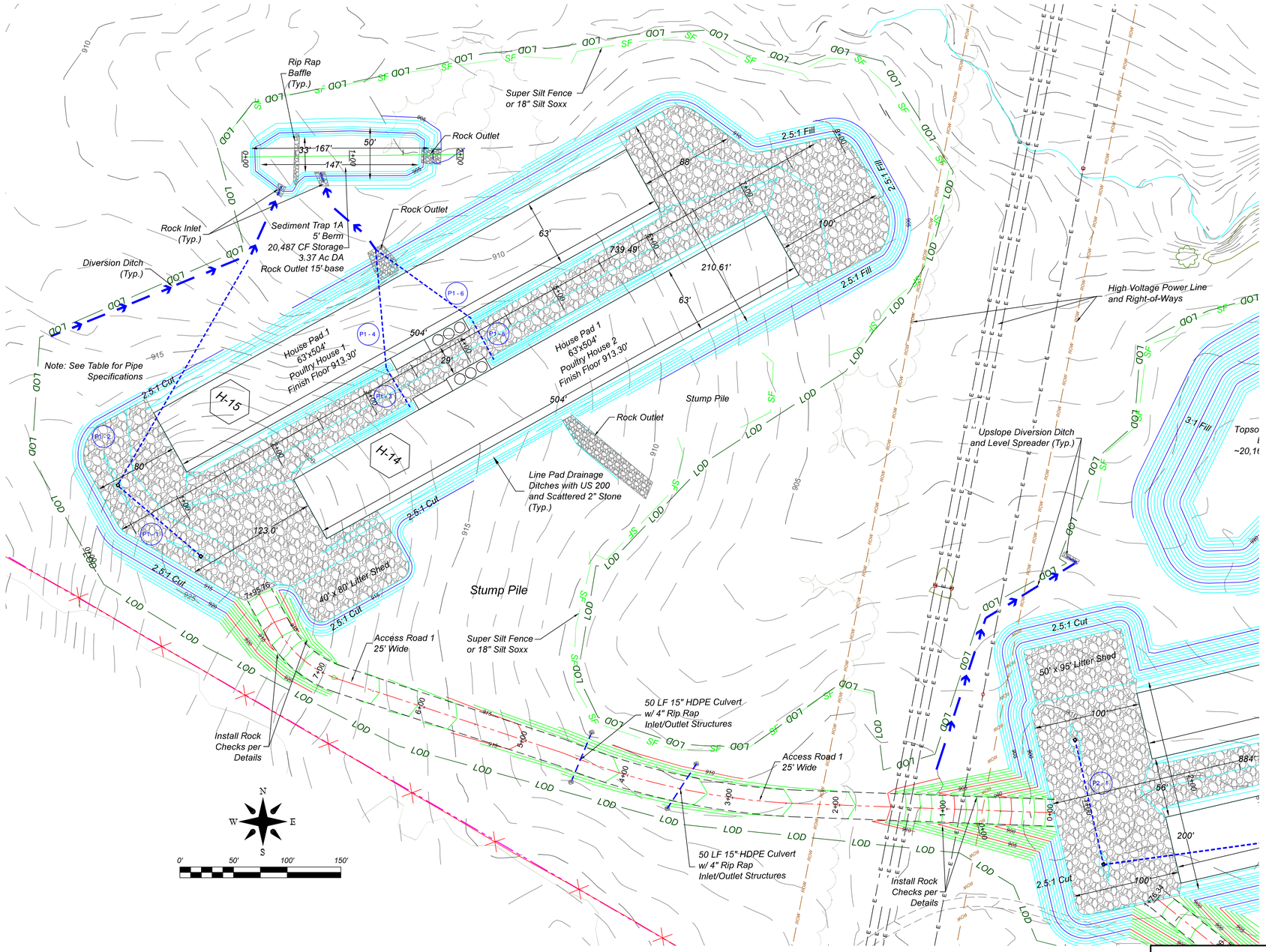
Date: 3/16/20

Scale: 1" = 60'

Designed By: CKW

File No. WVPPII_1-20

HOUSE PAD 1 PLAN



Legend

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POULTRY OPERATION
SITE DESIGN, EROSION & SEDIMENT CONTROL PLAN
MOOREFIELD DISTRICT
HARDY COUNTY, WV

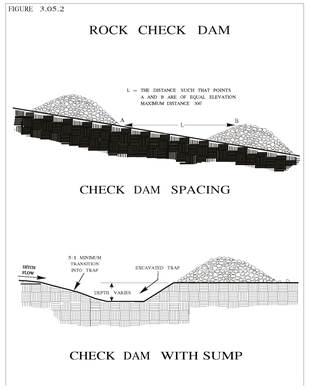
Date: 3/16/20

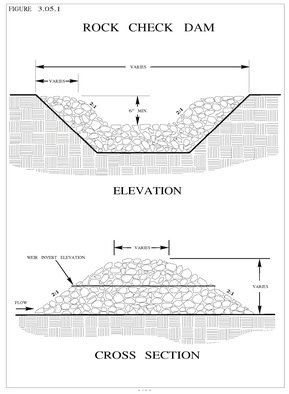
Scale: 1" = 50'

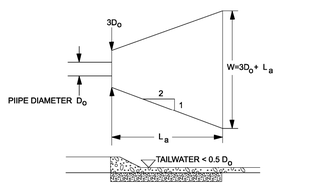
Designed By: CKW

File No. WVPPII_1-20

CONSTRUCTION DETAILS

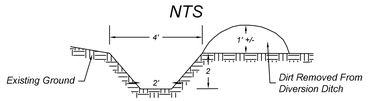






RIP RAP ARPRON OUTLET PROTECTION MINIMUM TAILWATER CONDITION

DIVERSION DITCH DETAIL
NTS



NOTE: Ditch to have 0.5 to 1% flow line grade.
Line with TRM and Install Check Dams

Diversion Ditch Design (Non-Erodible)

Channel Type: Trapezoidal, Equal Side Slopes
Dimensions: Left Side Slope 1.00:1
Right Side Slope 1.00:1
Base Dimension: 2.00

Wetted Perimeter: 7.66
Area of Wetted Cross Section: 8.00

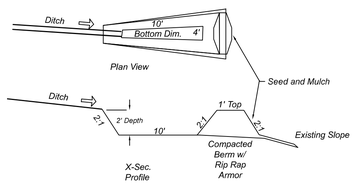
Channel Slope: 1.0000
Manning's n of Channel: 0.0356

Discharge: 34.38 cfs
Depth of Flow: 2.00 feet
Velocity: 4.30 fps

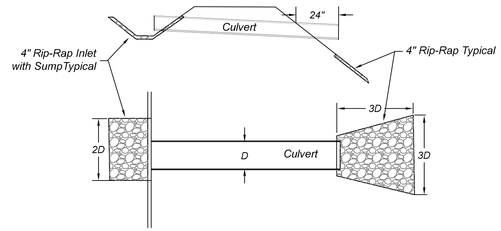
Channel Lining: 6 inch Rock Rip-Rap
Freeboard: 1.00 feet

LEVEL SPREADER DETAIL
NTS

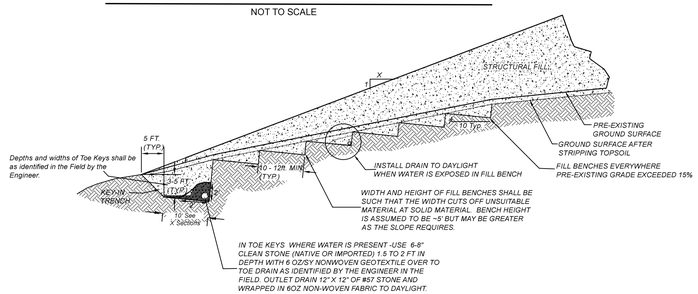
NOTE: To be placed at the ends of ditches calling for Level Spreaders
Level Spreaders will be cut into the contour of the existing slope.



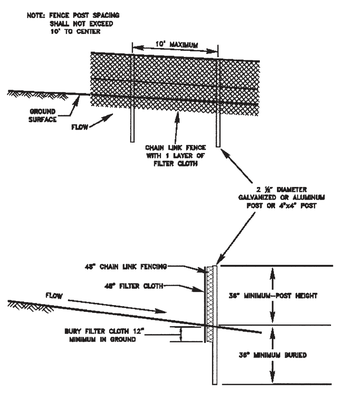
TYPICAL CULVERT & CULVERT INLET AND OUTLET PROTECTION DETAIL
NTS

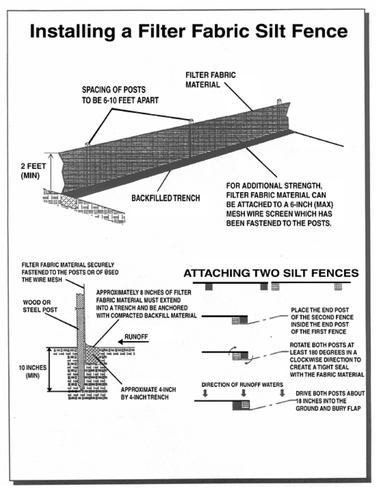


TYPICAL TOE KEY AND FILL BENCH DETAIL
NOT TO SCALE

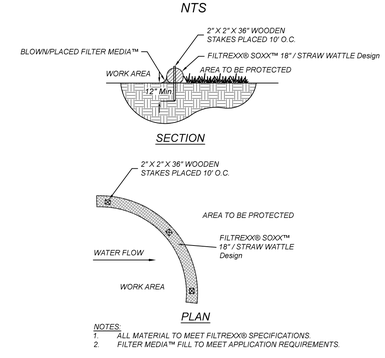


SUPER SILT FENCE





FILTREXX "SOXX" 18" FILTER SOCK AND STRAW WATTLE DETAIL
NTS



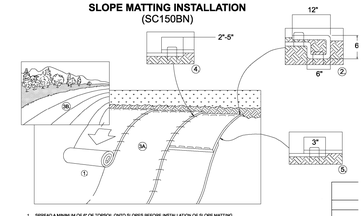
NOTES:
1. ALL MATERIAL TO MEET FILTREXX® SPECIFICATIONS.
2. FILTER MEDIA™ FILL TO MEET APPLICATION REQUIREMENTS.

TABLE 6.7
COMPARISON OF VARIOUS GRADATIONS OF COARSE AGGREGATES
TOTAL PERCENT PASSING

AASHTO NUMBER	6 ½"	4"	3 ½"	2 ½"	2"	1 ½"	1"	3/4"	1/2"	3/8"	#4	#8	#16	#30	#100
1		100	90-100	25-60					0-5						
3				100	90-100	0-15			0-5						
5						90-100	20-55	0-10	0-5						
57						90-100		25-60		0-10	0-5				
67						100	90-100		20-55	0-10	0-5				
7							100	90-100	40-70	0-15	0-5				
8								100	85-100	10-30	0-10	0-5			
10									100	75-100				10-30	

PennDOT Publication 408, Section 703.2(c), Table C

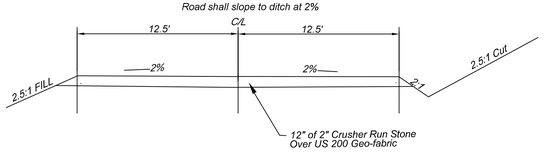
SLOPE MATTING INSTALLATION
(SC150BN)



1. SPREAD A MINIMUM OF 6" OF TOPSOIL ONTO SLOPES BEFORE INSTALLATION OF SLOPE MATTING.
2. PREP SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF FERTILIZER, LIME, AND SEED, WHEN NECESSARY.
3. BEGIN AT THE TOP OF THE SLOPE BY SECURING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A NON-OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL. FOLD REMAINING 12" OF PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A NON-OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
4. ROLL THE BLANKETS
(A.) DOWN OR
(B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE.
5. ALL BLANKETS MUST BE FASTENED TO SOIL SURFACE IN A SECURE MANNER BY PLACING STAPLES/STAKES IN LOCATIONS AS SHOWN IN THE PATTERN GUIDE.
6. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-3" OVERLIE DEPENDING ON BLANKET TYPE. TO ENSURE SEAMS STAY ALIGNED, PLACE A STAPLE JUST OUTSIDE THE EDGE OF THE BLANKET APPROXIMATELY 6" FROM THE TOP, EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET. FOLLOW MANUFACTURERS RECOMMENDATIONS.
7. SUCCESSIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.
8. IF SOIL CONDITIONS ARE LOOSE, STAKED OR STAPLED LENGTHS GREATER THAN 9' MAY BE NECESSARY TO SECURE THE BLANKETS PROPERLY.

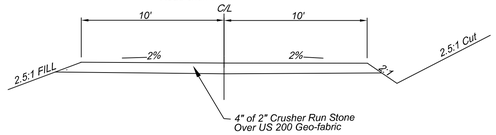
Typical Access Road Entrance Cross Section
25' Travel Way
Stations 0+10 to 1+00

Road shall slope to ditch at 2%



Typical Access Road Entrance Cross Section
25' Travel Way
Stations 1+00 to End

Road shall slope to ditch at 2%



REVISIONS

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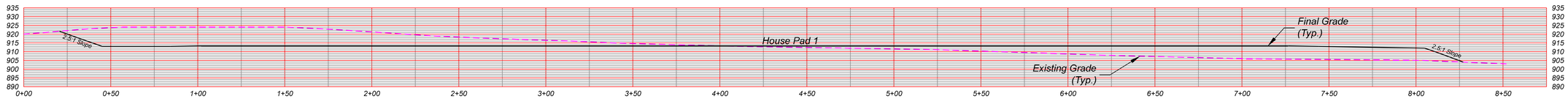
CONSTRUCTION DETAILS
WV POULTRY PARTNERS II LLC
POULTRY OPERATION
SITE DESIGN, EROSION & SEDIMENT CONTROL PLAN
MOOREFIELD DISTRICT
HARDY COUNTY, WV

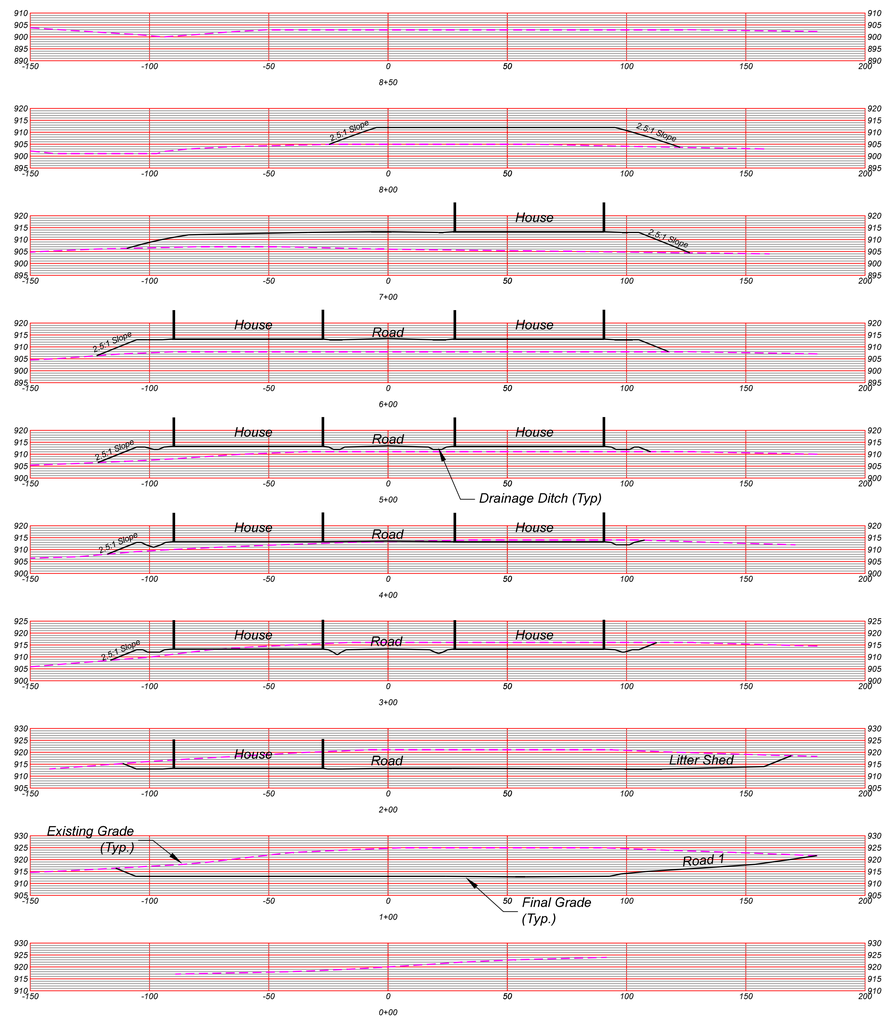
Date: 3/16/20
Scale: NTS
Designed By: CKW
File No. WVPPII_1-20

HOUSE PAD 1 PROFILE AND CROSS SECTIONS

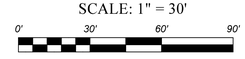


Pad Profile
SCALE: 1" = 30'

Note: Line Pad Drainage Ditches with TRM and Scattered 2" Stone



Pad Cross Sections
SCALE: 1" = 30'



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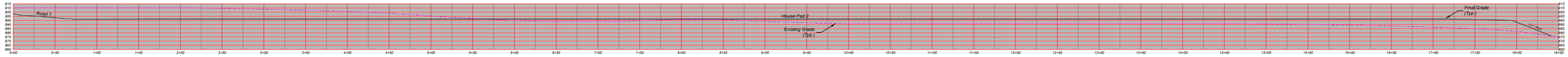
HOUSE PAD 1 PROFILE AND CROSS SECTIONS
WV POULTRY PARTNERS II LLC
POULTRY OPERATION
SITE DESIGN, EROSION & SEDIMENT CONTROL PLAN
MOOREFIELD DISTRICT
HARDY COUNTY, WV

Date: 3/16/20
Scale: 1" = 30'
Designed By: CKW
File No. WVPPII_1-20

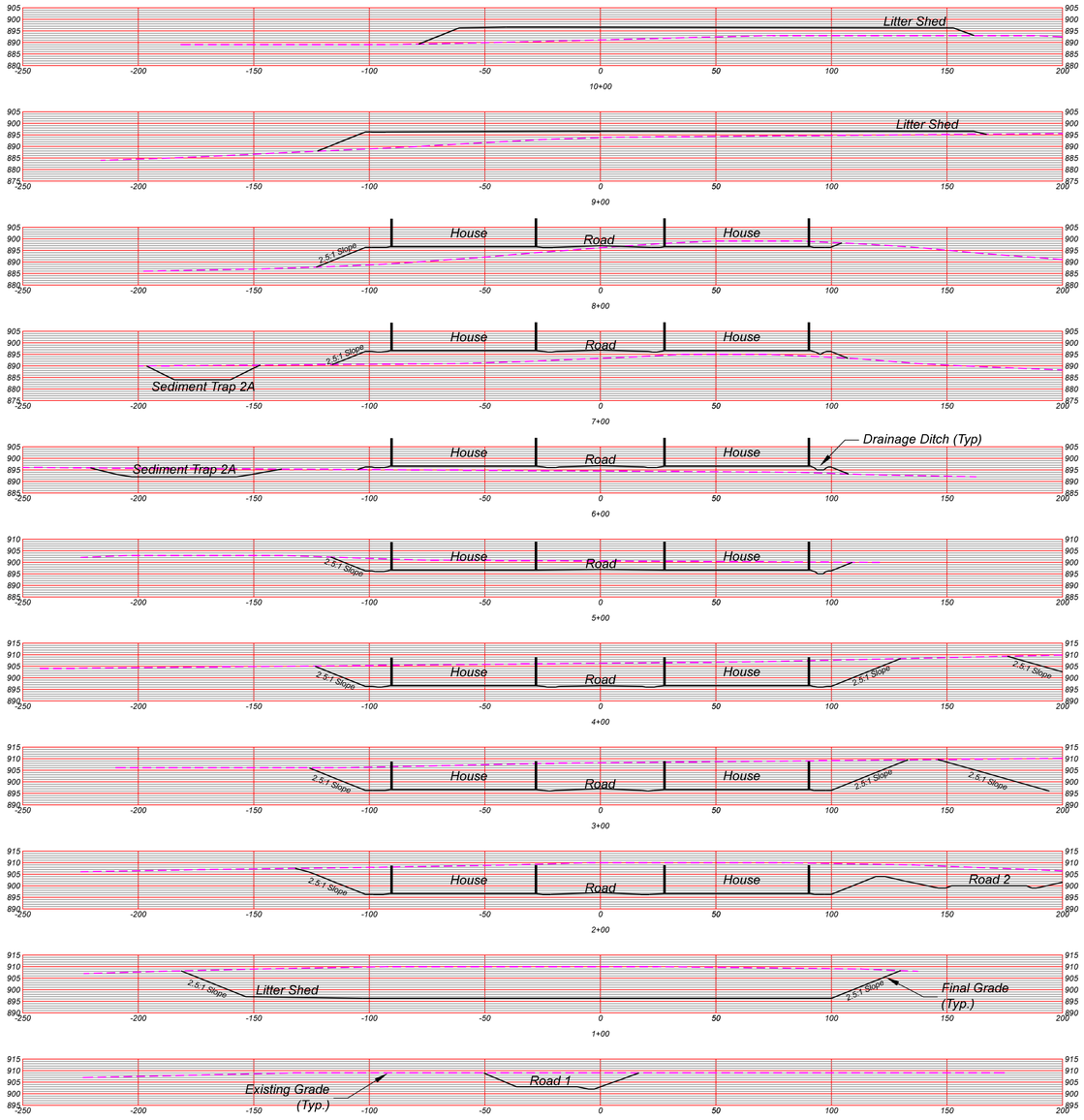
HOUSE PAD 2 PROFILE AND CROSS SECTIONS

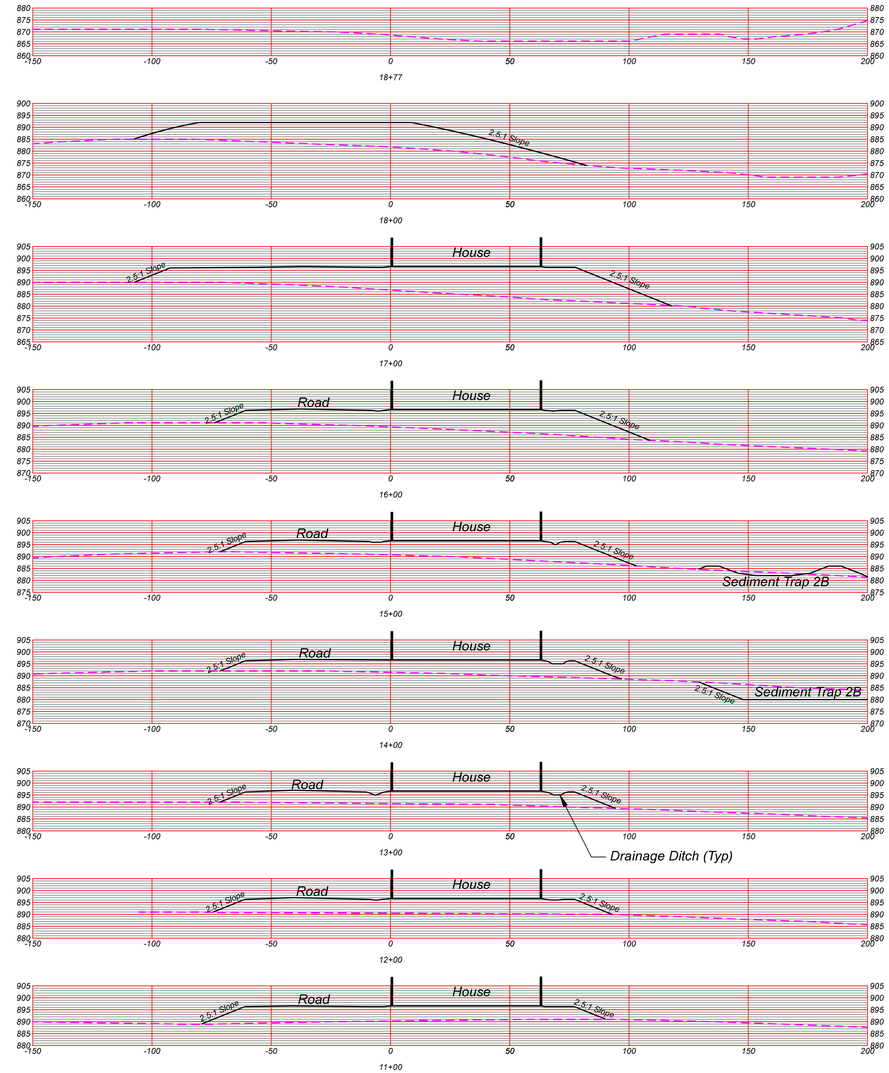


Pad Profile

SCALE: 1" = 60'

0' 60' 120' 180'





Pad Cross Sections

SCALE: 1" = 30'

0' 30' 60' 90'

Note: Line Pad Drainage Ditches with TRM and Scattered 2" Stone

REVISIONS	
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HOUSE PAD 2 PROFILE AND CROSS SECTIONS
WV POULTRY PARTNERS II LLC
POULTRY OPERATION
SITE DESIGN, EROSION & SEDIMENT CONTROL PLAN
MOOREFIELD DISTRICT
HARDY COUNTY, WV

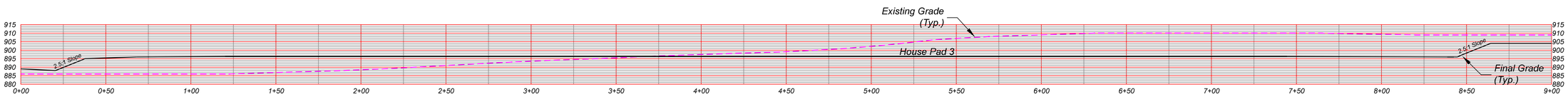
Date: 3/16/20

Scale: 1" = 30'/60'

Designed By: CKW

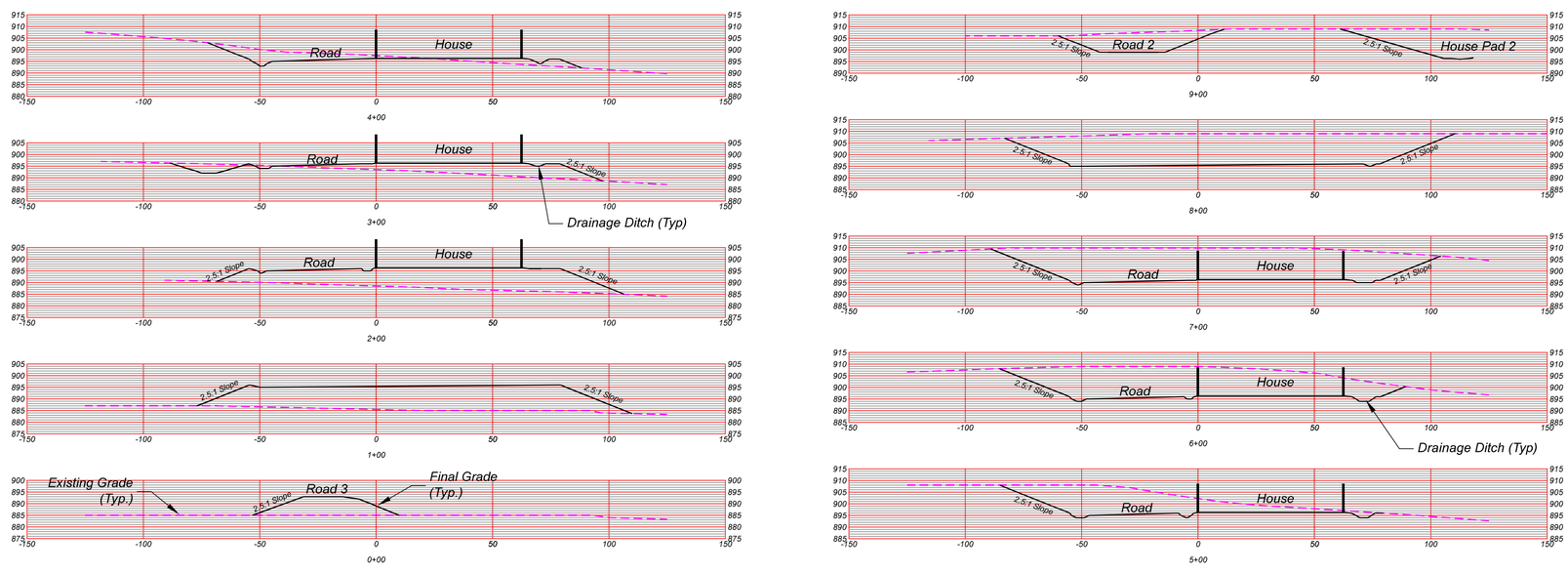
File No. WVPPII_1-20

HOUSE PAD 3 PROFILE AND CROSS SECTIONS



Pad Profile
SCALE: 1" = 30'

0' 30' 60' 90'



Pad Cross Sections
SCALE: 1" = 30'

0' 30' 60' 90'

Note: Line Pad Drainage Ditches with TRM and Scattered 2" Stone

REVISIONS

DATE

CHARLES K. WILSON
REGISTERED
NO. 12493
STATE OF
WEST VIRGINIA
PROFESSIONAL ENGINEER

L&W ENTERPRISES, INC.
PO BOX 826
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FAX: 304-257-2224

L & W Enterprises Incorporated

THIS DOCUMENT PREPARED FOR WVPP II LLC

HOUSE PAD 3 PROFILE AND CROSS SECTIONS
WV POULTRY PARTNERS II LLC
POULTRY OPERATION
SITE DESIGN, EROSION & SEDIMENT CONTROL PLAN
MOOREFIELD DISTRICT
HARDY COUNTY, WV

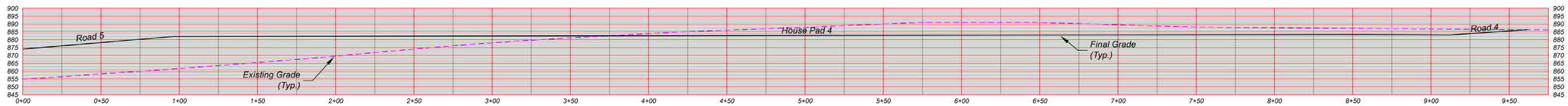
Date: 3/16/20

Scale: 1" = 30'

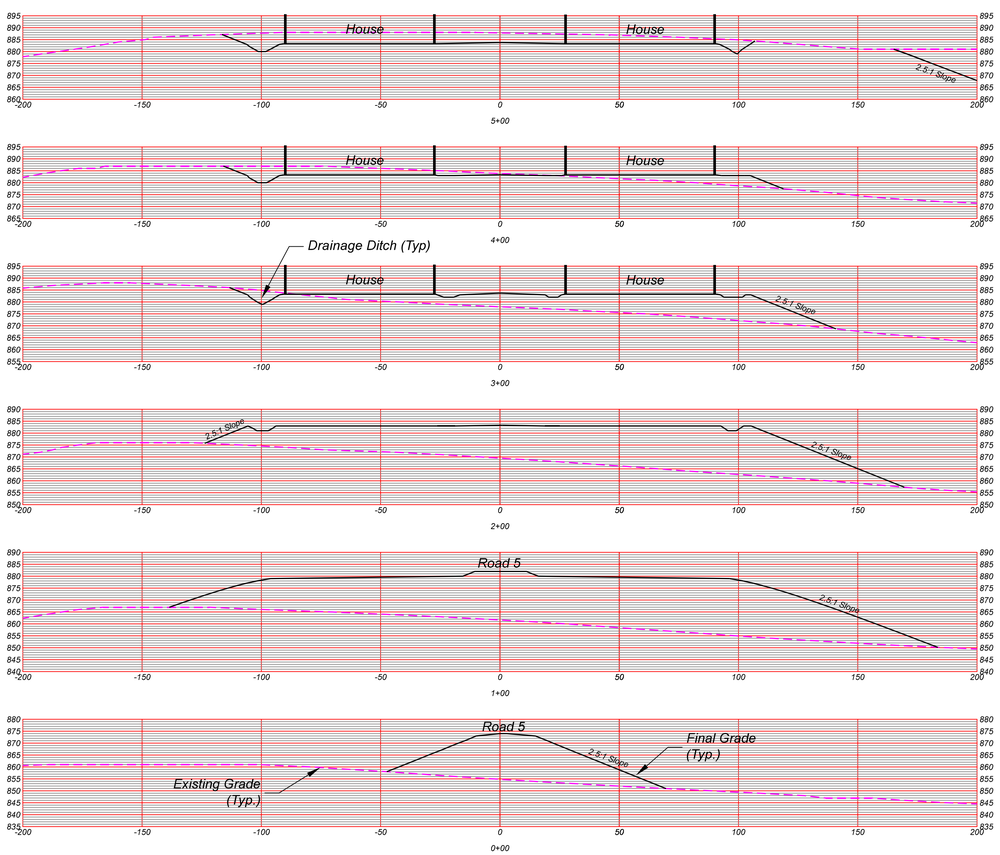
Designed By: CKW

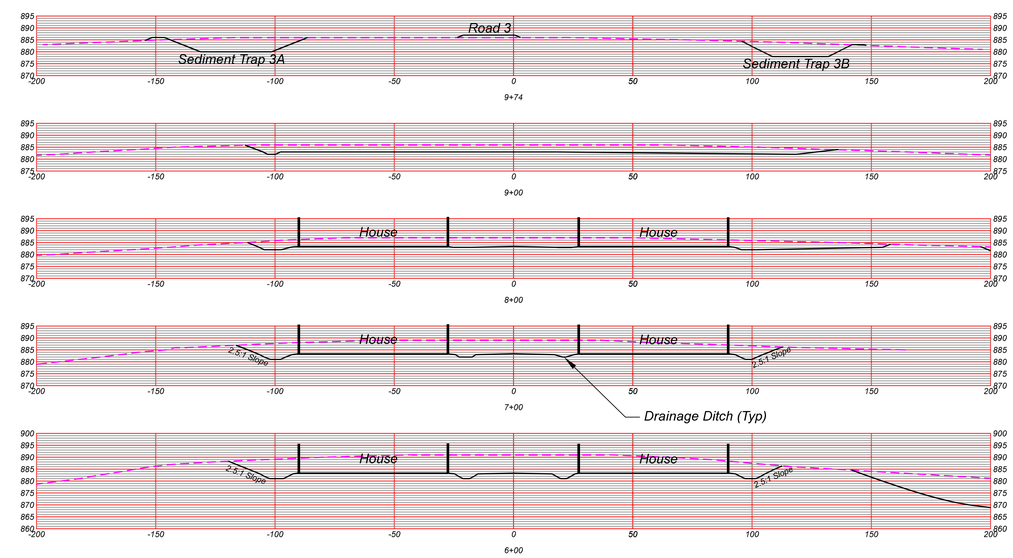
File No. WVPPII_1-20

HOUSE PAD 4 PROFILE AND CROSS SECTIONS



Pad Profile
SCALE: 1" = 35'





Pad Cross Sections
SCALE: 1" = 30'

Note: Line Pad Drainage Ditches with TRM and Scattered 2" Stone

REVISIONS

DATE

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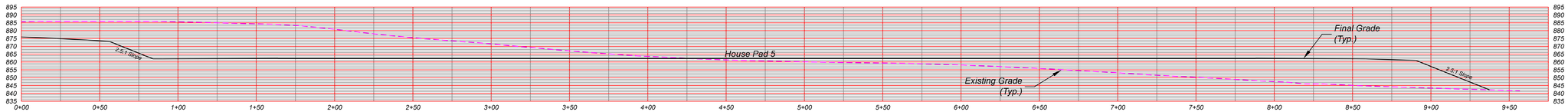
HOUSE PAD 4 PROFILE AND CROSS SECTIONS
WV POULTRY PARTNERS II LLC
POULTRY OPERATION
SITE DESIGN, EROSION & SEDIMENT CONTROL PLAN
MOOREFIELD DISTRICT
HARDY COUNTY, WV

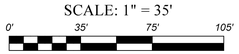
Date: 3/16/20
Scale: 1" = 30'/35'
Designed By: CKW
File No. WVPPII_1-20

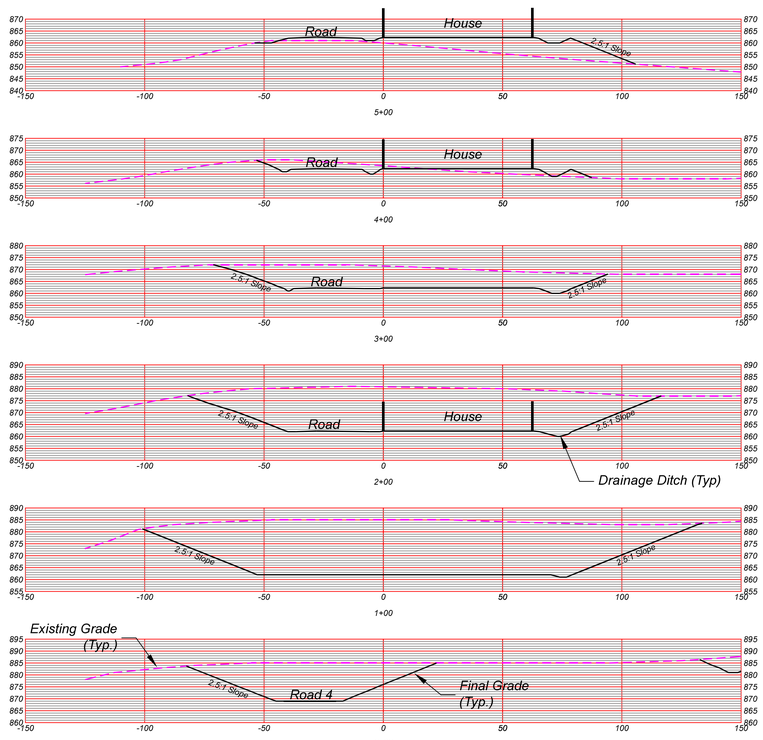
HOUSE PAD 5 PROFILE AND CROSS SECTIONS

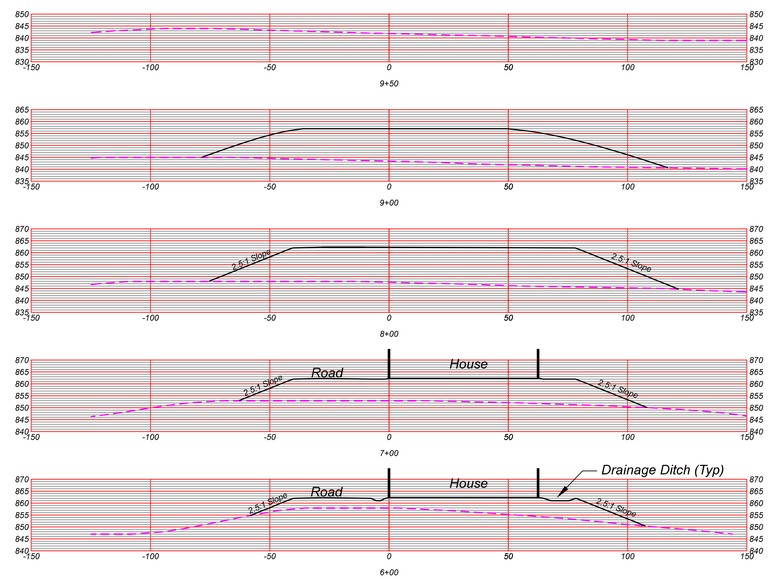


Pad Profile

SCALE: 1" = 35'

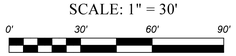






Pad Cross Sections

SCALE: 1" = 30'



Note: Line Pad Drainage Ditches with TRM and Scattered 2" Stone

REVISIONS

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L & W Enterprises Incorporated

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HOUSE PAD 5 PROFILE AND CROSS SECTIONS
WV POULTRY PARTNERS II LLC
POULTRY OPERATION
SITE DESIGN, EROSION & SEDIMENT CONTROL PLAN
MOOREFIELD DISTRICT
HARDY COUNTY, WV

Date: 3/16/20

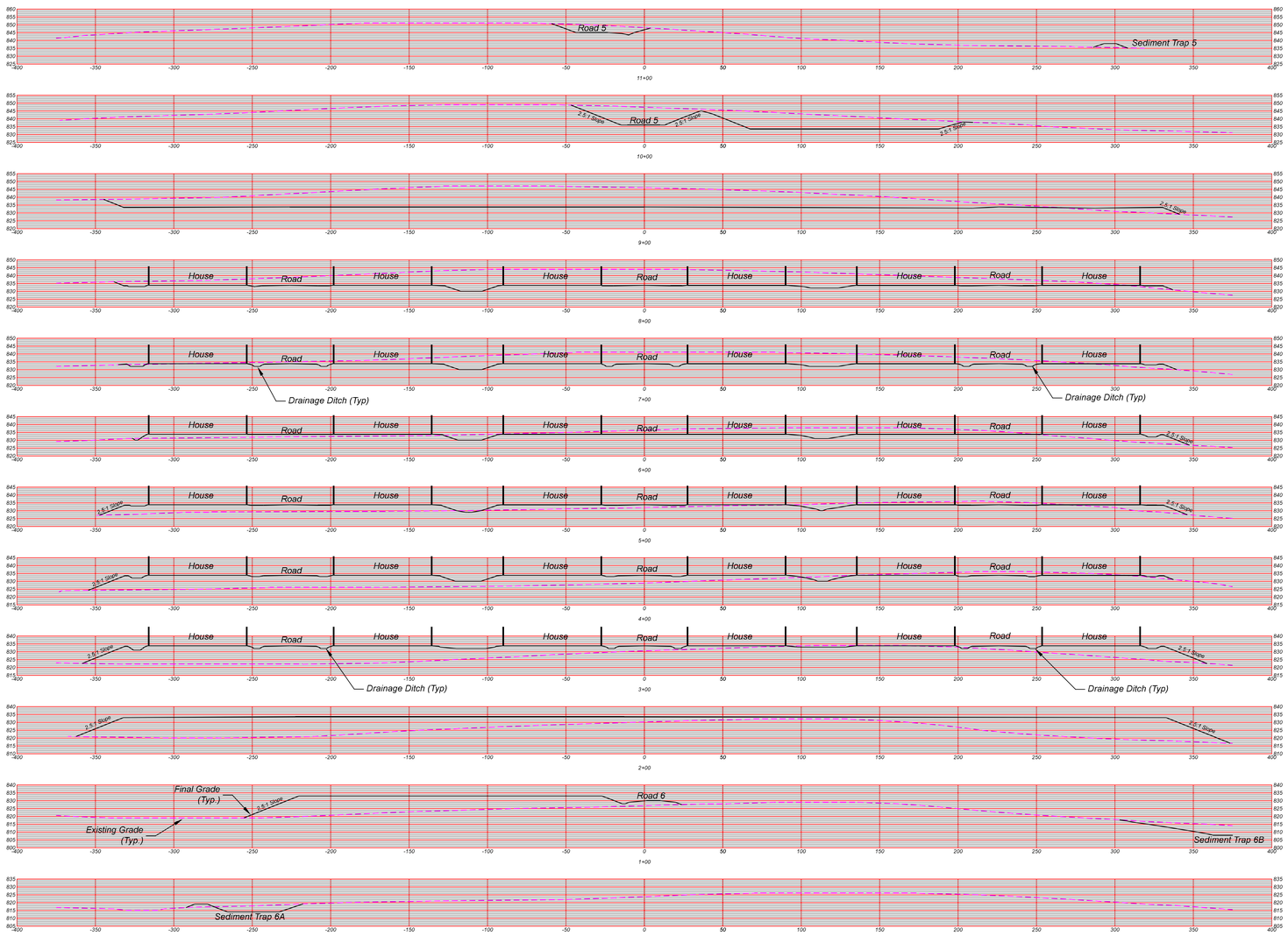
Scale: 1" = 30'/35'

Designed By: CKW

File No. WVPPII_1-20

HOUSE PAD 6 PROFILE AND CROSS SECTIONS

Pad Profile
SCALE: 1" = 40'



Pad Cross Sections
SCALE: 1" = 40'

Note: Line Pad Drainage Ditches with TRM and Scattered 2" Stone

REVISIONS

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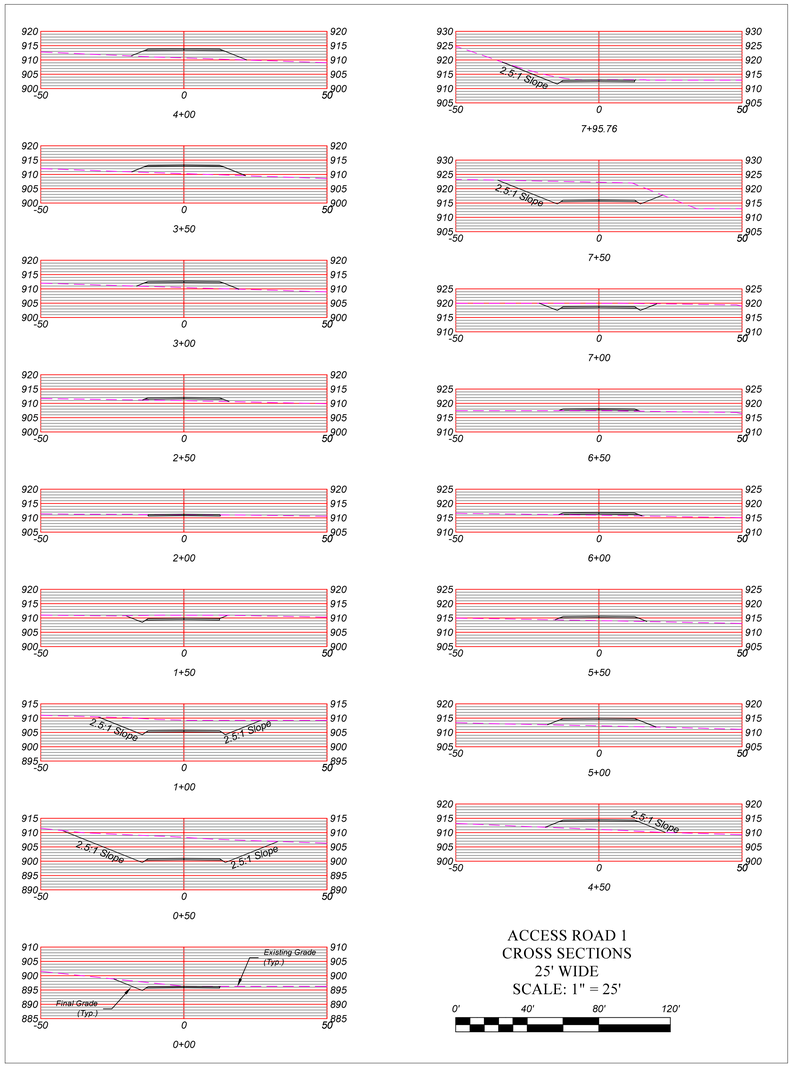
WV POULTRY PARTNERS II LLC
POULTRY OPERATION
SITE DESIGN, EROSION & SEDIMENT CONTROL PLAN
MOOREFIELD DISTRICT
HARDY COUNTY, WV

Date: 3/16/20
Scale: 1" = 40'
Designed By: CKW
File No. WVPPII_1-20

ACCESS ROADS 1 - 3 CROSS SECTIONS

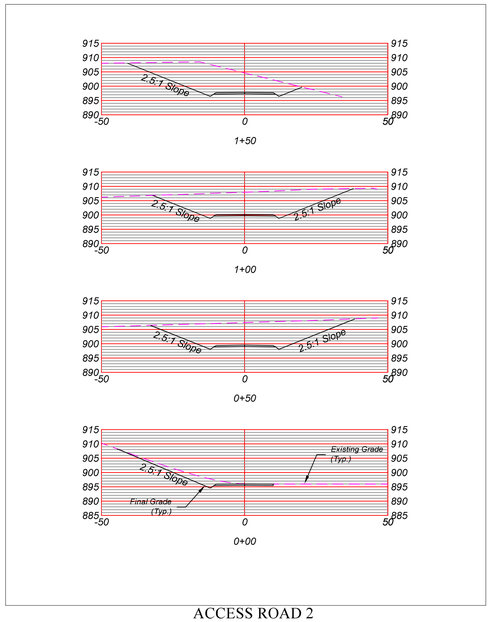
ACCESS ROAD 1



ACCESS ROAD 1
CROSS SECTIONS
25' WIDE
SCALE: 1" = 25'

0' 40' 80' 120'

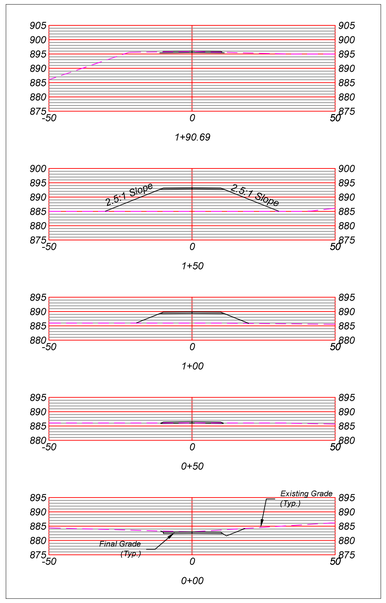
ACCESS ROAD 2



ACCESS ROAD 2
CROSS SECTIONS
20' WIDE
SCALE: 1" = 25'

0' 40' 80' 120'

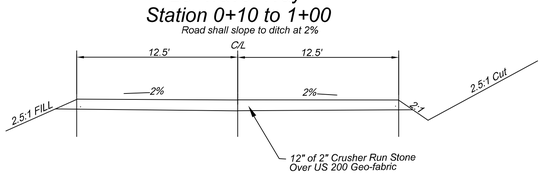
ACCESS ROAD 3



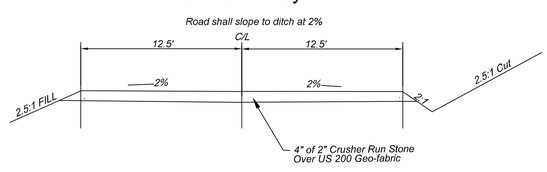
ACCESS ROAD 3
CROSS SECTIONS
20' WIDE
SCALE: 1" = 25'

0' 40' 80' 120'

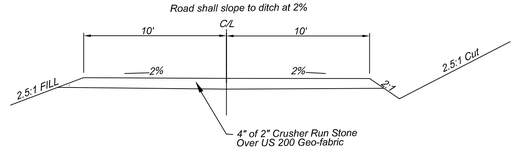
Typical Access Road Entrance Cross Section
25' Travel Way
Station 0+10 to 1+00



Typical Access Road Cross Section
25' Travel Way



Typical Access Road Cross Section
20' Travel Way



REVISIONS	DATE

CHARLES K. WILSON REGISTERED NO. 12493 STATE OF WEST VIRGINIA PROFESSIONAL ENGINEER

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L & W Enterprises Incorporated

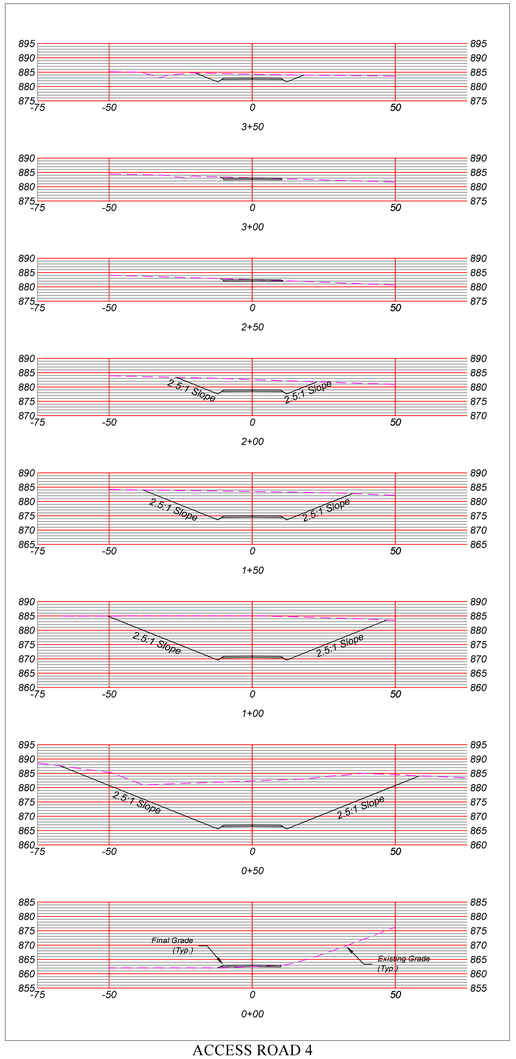
THIS DOCUMENT PREPARED FOR WVPP II LLC

ACCESS ROADS 1 - 3 CROSS SECTIONS
WV POULTRY PARTNERS II LLC
POULTRY OPERATION
SITE DESIGN, EROSION & SEDIMENT CONTROL PLAN
MOOREFIELD DISTRICT
HARDY COUNTY, WV

Date: 3/16/20
Scale: 1" = 25'
Designed By: CKW
File No. WVPPII_1-20

ACCESS ROADS 4 - 6 CROSS SECTIONS

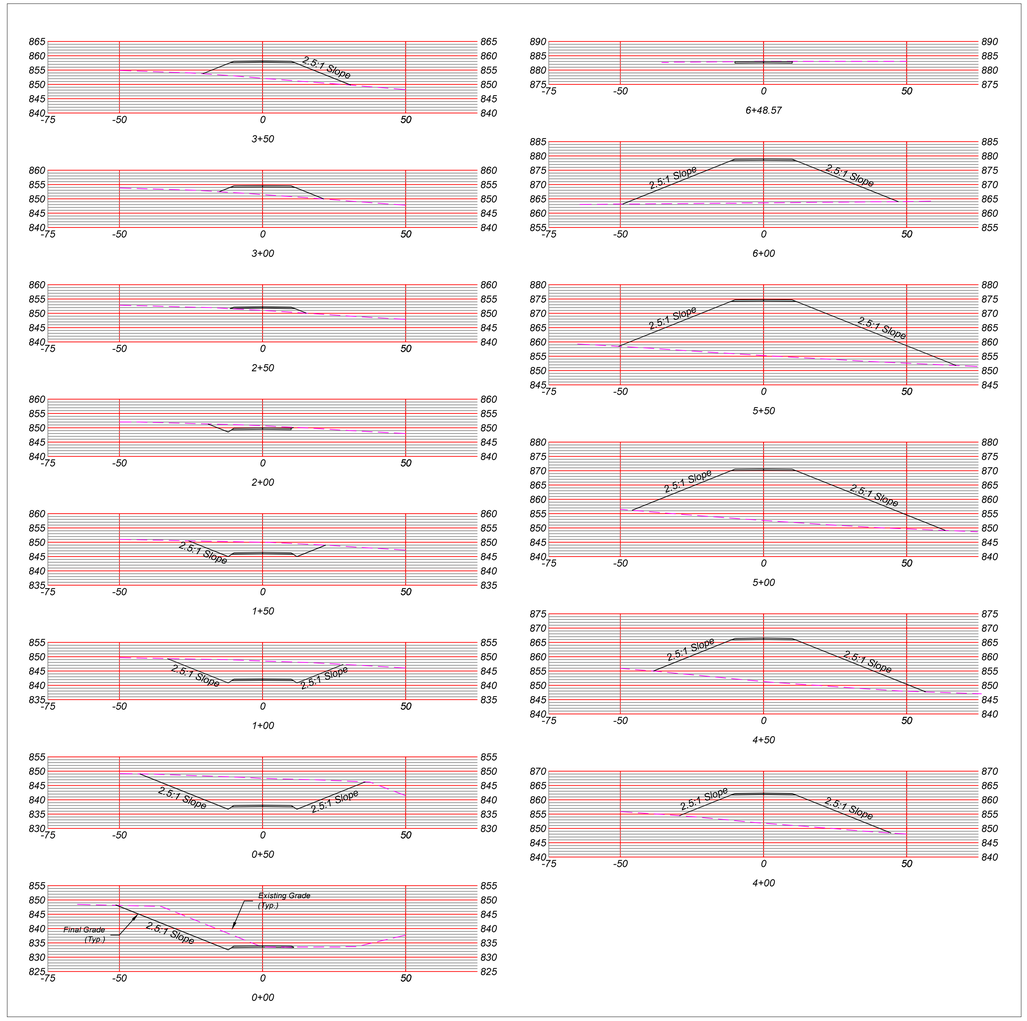
ACCESS ROAD 4



ACCESS ROAD 4
CROSS SECTIONS
25' WIDE
SCALE: 1" = 25'

0' 40' 80' 120'

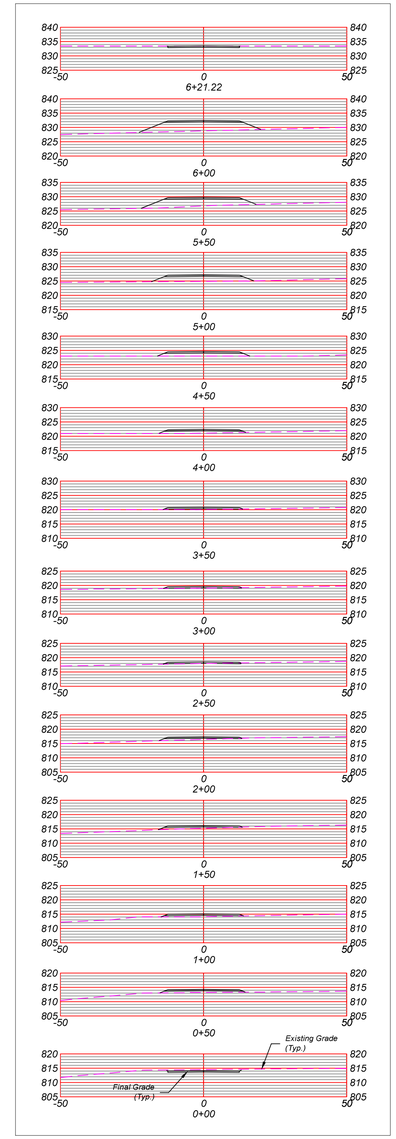
ACCESS ROAD 5



ACCESS ROAD 5
CROSS SECTIONS
20' WIDE
SCALE: 1" = 25'

0' 40' 80' 120'

ACCESS ROAD 6

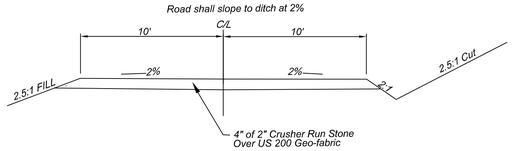


ACCESS ROAD 6
CROSS SECTIONS
25' WIDE
SCALE: 1" = 25'

0' 40' 80' 120'

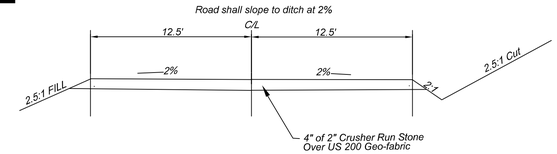
Typical Access Road Cross Section
20' Travel Way

Road shall slope to ditch at 2%



Typical Access Road Cross Section
25' Travel Way

Road shall slope to ditch at 2%



REVISIONS

DATE

CHARLES K. WILSON
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NO. 12493
STATE OF
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L&W ENTERPRISES, INC.
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L & W Enterprises Incorporated
Surveying Engineering Design Construction Management

THIS DOCUMENT
PREPARED FOR
WVPP II LLC

ACCESS ROADS 4 - 6 CROSS SECTIONS
WV POULTRY PARTNERS II LLC
POULTRY OPERATION
SITE DESIGN, EROSION & SEDIMENT CONTROL PLAN
MOOREFIELD DISTRICT
HARDY COUNTY, WV

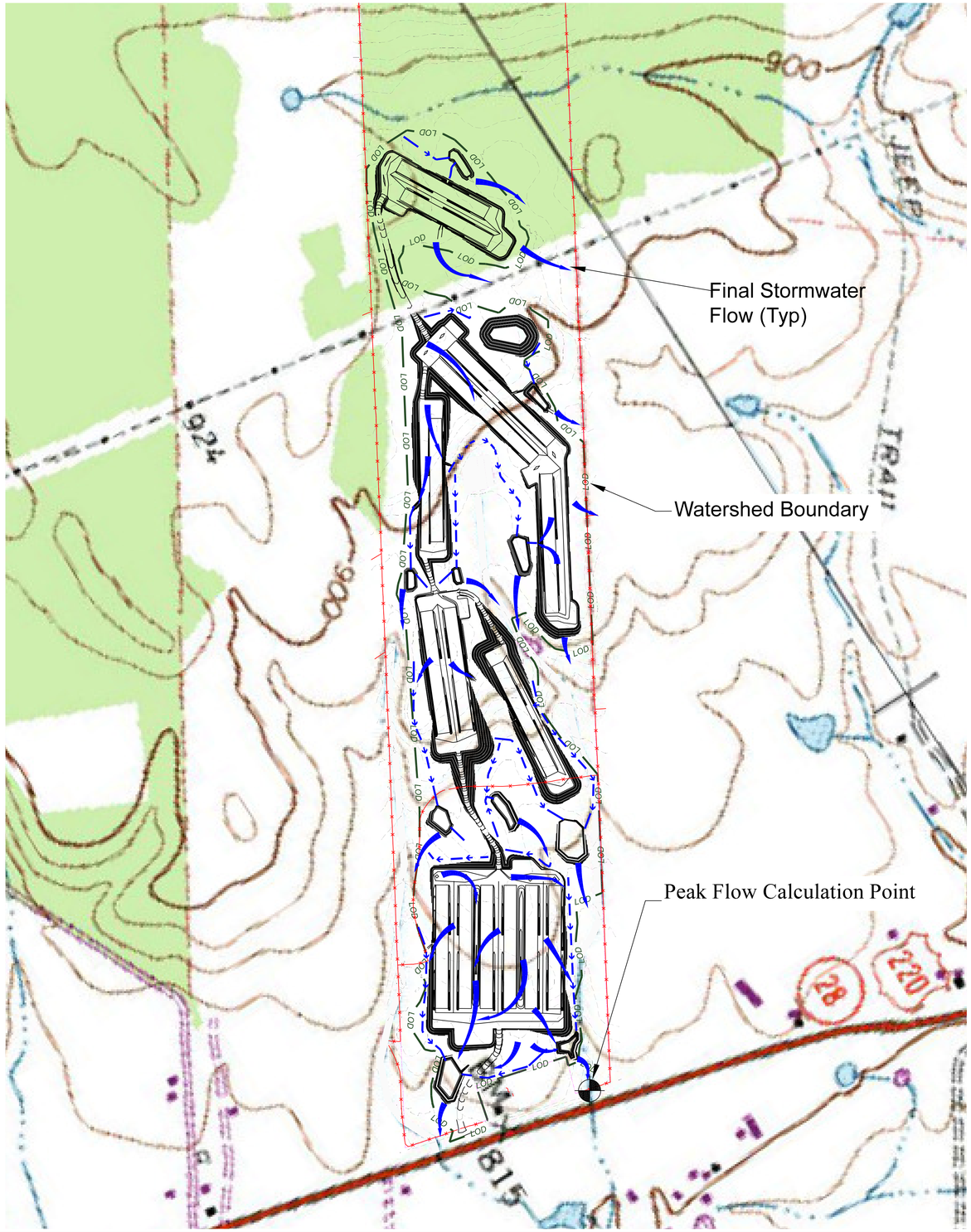
Date: 3/16/20

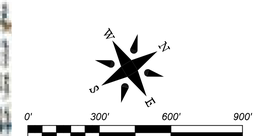
Scale: 1" = 25'

Designed By: CKW

File No. WVPPII_1-20

FINAL CONDITIONS





Pre-Post Calculations

Pre-Construction Peak Flow

Runoff Curve Number and Runoff — Fri Feb 07 15:41:49 2020

Project: WV PP II — By: — Date: 02/07/20
Location: — Checked: — Date:
Present

1. Runoff Curve Number (CN)

Cover description	CN	Soil Group	Area(Acre)
Gravel Streets, Pads and Buildings	89	C	0.000
Grass (Good)	74	C	64.540
Woods (Good)	70	C	8.840

CN (weighted): 73.5
Total Area: 73.380 Acre

2. Runoff
Return Period: 1 YEAR
Rainfall, P: 2.48 in
Runoff, Q: 0.5775 in
Runoff Volume: 3.5311 Acre-Ft

Time of Concentration (SCS) — Fri Feb 07 15:44:03 2020

Project: WV PP II — By: — Date: 02/07/20
Location: — Checked: — Date: 02/07/20
Present

Curve Number : 74
Length of Flow : 4350.00 ft
Average Land Slope : 2.38 %

Time of Concentration : 1.330 hrs, 79.8 mins

Graphical Peak Discharge — Fri Feb 07 15:44:41 2020

Project: WV PP II — By: — Date: 02/07/20

Location: — Checked: — Date:

Present

1. Data:

Drainage area:.....A = 73.3800Acres

Runoff Curve Number:.....CN = 74

Time of Concentration:.....Tc = 79.78 min

Storm Type:..... = II

Pond and swamp areas spread throughout watershed..... = 0.00 percent of A
0.0000 Acres

2. Frequency.....yr = 1

3. Rainfall,P(24-hour).....in = 2.48

4. Initial abstraction, Ia..... = 0.7027

5. Compute Ia/P..... = 0.2833

6. Unit peak discharge, qu.....csm/in = 253.524

7. Runoff,Q.....in = 0.5970

8. Pond & swap adjustment factor,...Fp = 1.00

9. Peak Discharge,qp.....cfs = 17.355

Post-Construction Peak Flow

Runoff Curve Number and Runoff — Fri Feb 07 15:46:59 2020

Project: WV PP II — By: — Date: 02/07/20
Location: — Checked: — Date:
Developed

1. Runoff Curve Number (CN)

Cover description	CN	Soil Group	Area(Acre)
Gravel Streets, Pads and Buildings	89	C	33.500
Grass (Good)	74	C	39.880
Woods (Good)	70	C	0.000

CN (weighted): 80.8
Total Area: 73.380 Acre

2. Runoff
Return Period: 1 YEAR
Rainfall, P: 2.48 in
Runoff, Q: 0.9200 in
Runoff Volume: 5.6255 Acre-Ft

Time of Concentration (SCS) — Fri Feb 07 15:50:37 2020

Project: WV PP II — By: — Date: 02/07/20
Location: — Checked: — Date: 02/07/20
Developed

Curve Number : 81
Length of Flow : 5960.00 ft
Average Land Slope : 1.21 %

Time of Concentration : 49.946 hrs, 2996.8 mins

Graphical Peak Discharge — Fri Feb 07 15:56:56 2020

Project: WV PP II — By: — Date: 02/07/20

Location: — Checked: — Date:

Developed

1. Data:

Drainage area:.....A = 73.3800Acres

Runoff Curve Number:.....CN = 81

Time of Concentration:.....Tc = 2996.76 min

Storm Type:..... = II

Pond and swamp areas spread throughout watershed..... = 3.39 percent of A
2.4876 Acres

2. Frequency.....yr = 1

3. Rainfall,P(24-hour).....in = 2.48

4. Initial abstraction, Ia..... = 0.4691

5. Compute Ia/P..... = 0.1892

6. Unit peak discharge, qu.....csm/in = 57.325

7. Runoff,Q.....in = 0.9282

8. Pond & swap adjustment factor,...Fp = 0.76

9. Peak Discharge,qp.....cfs = 4.636

The increase in Runoff from the new Impervious areas is 20,300 CF.
Total Trap Retention of 48 hours is 299,000 CF.
Therefore, overall Peak Discharge for the 1-yr event is decreased by 12.719 cfs as a result of the Sediment Trap/SWM Controls (total of 54.92 Acres of Retention Area).

REVISIONS

DATE

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FINAL CONDITIONS
WV POULTRY PARTNERS II LLC
POULTRY OPERATION
SITE DESIGN, EROSION & SEDIMENT CONTROL PLAN
MOOREFIELD DISTRICT
HARDY COUNTY, WV

Date: 3/16/20
Scale: 1" = 300'
Designed By: CKW
File No. WVPPII_1-20