TURNBULL NWR - HORNER MEADOWS
US-WA-285-1
WETLAND RESTORATION

DUCKS UNLIMITED

DUCKS UNLIMITED, INC.
PACIFIC NORTHWEST FIELD OFFICE
17800 S. E. MILL PLAIN BLVD.
VANCOUVER, WA. 98683 PH.
(360) 885-2011

U.S. FISH & WILDLIFE SERVICE
DEPARTMENT OF THE INTERIOR

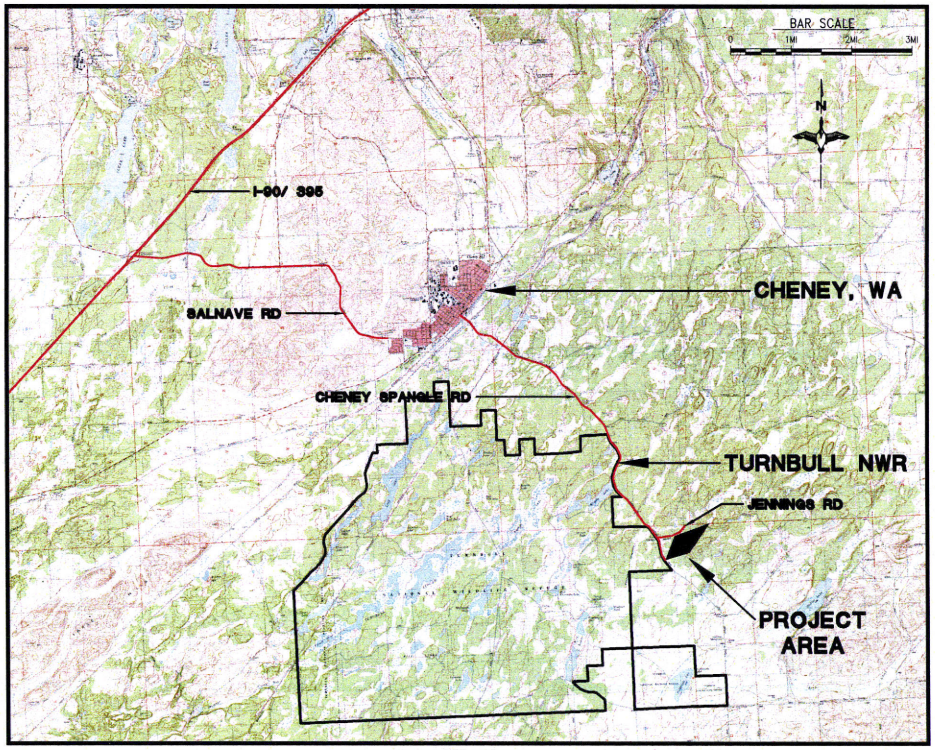
GENERAL NOTES:

1. SHOULD THE CONTRACTOR FIND ANY DISCREPANCIES BETWEEN THE CONDITIONS EXISTING IN THE FIELD AND THE INFORMATION SHOWN ON THE DRAWINGS, HE SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
2. SHOULD IT APPEAR THAT THE WORK TO BE DONE, OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS OR IN THE SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR SUCH FURTHER EXPLANATIONS AS MAY BE NECESSARY.
3. DUCKS UNLIMITED MAKES NO REPRESENTATIONS AS TO THE EXISTENCE OR NONEXISTENCE OF UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING UTILITIES PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR WILL BE LIABLE FOR ANY DAMAGE TO UTILITIES CAUSED BY CONSTRUCTION ACTIVITIES.
4. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. EXCAVATIONS SHALL MEET THE REQUIREMENTS OF OSHA 29 CFR 1926, SUBPART P, EXCAVATIONS. THE DUTIES OF THE PROJECT ENGINEER DO NOT INCLUDE THE REVIEW OF THE ADEQUACY OF THE CONTRACTORS SAFETY IN, ON OR NEAR THE JOBSITE.
5. THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

ABBREVIATIONS

C-C	CENTER TO CENTER	N	NORTH
CMP	CORRUGATED METAL PIPE	NO	NUMBER, NORTH
DIA	DIAMETER	NTS	NOT TO SCALE
Dp	PIPE DIAMETER	OC	ON CENTER
Dr	RISER DIAMETER	PP	POWER POLE
DU	DUCKS UNLIMITED, INC.	PSI	POUNDS PER SQUARE INCH
EL, ELEV	ELEVATION	PVC	POLYVINYL CHLORIDE
EX	EXISTING	R	RIGHT
FB	FLASHBOARD	RD	ROAD
FG	FINISHED GRADE	REF	REFERENCE DIMENSION
FL	FLOW LINE	REQD	REQUIRED
FT	FOOT, FEET	SCH	SCHEDULE
FTG	FITTING	SO	SOUTH
GA	GAUGE	SP	SPECIAL
H	RISER HEIGHT	STA	STATION
ID	INSIDE DIAMETER	TE	TOP ELEVATION
IE	INVERT ELEVATION	TYP	TYPICAL
IN	INCH, INCHES	USA	UNDERGROUND SERVICE ALERT
INV	INVERT	VLV	VALVE
L	LENGTH, LEFT	WI	WIDTH
LBF	POUNDS-FORCE	W	WATER
LF	LINEAR FEET	WS	SURFACE
MAX	MAXIMUM	WWF	WELDED WIRE FABRIC
MIN	MINIMUM	WCS	WATER CONTROL STRUCTURE
MISC	MISCELLANEOUS		

Utility Notification Center
CALL BEFORE YOU DIG

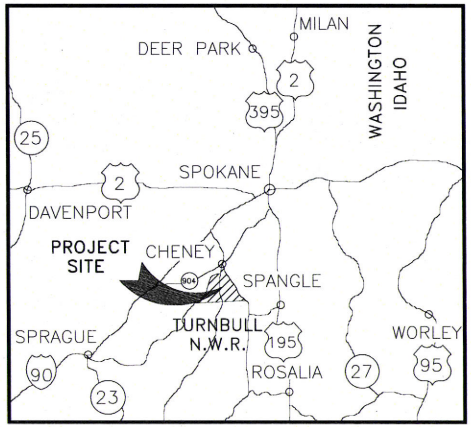


SITE MAP
SPOKANE COUNTY
WASHINGTON

SECTIONS: SEC 4
TOWNSHIP: T 22 N
RANGE: R 42 E

SHEET INDEX
1. COVER SHEET
2. PLAN
3. PROFILE & SECTIONS

WASHINGTON STATE
N.T.S.



VICINITY MAP

PRELIMINARY

SURVEY DATUM	
SURVEY DATE:	LIDAR Survey by Watershed Sciences
HORIZONTAL DATUM:	WA STATE PLANE NORTH ZONE NAD83, US FEET
VERTICAL DATUM:	
GEOID MODEL:	
CONTOUR INTERVAL:	1ft
AERIAL PHOTO:	

REVISIONS			
REV. NO.	DESCRIPTION	DATE	APPROVED
1			
2			
3			
4			
5			

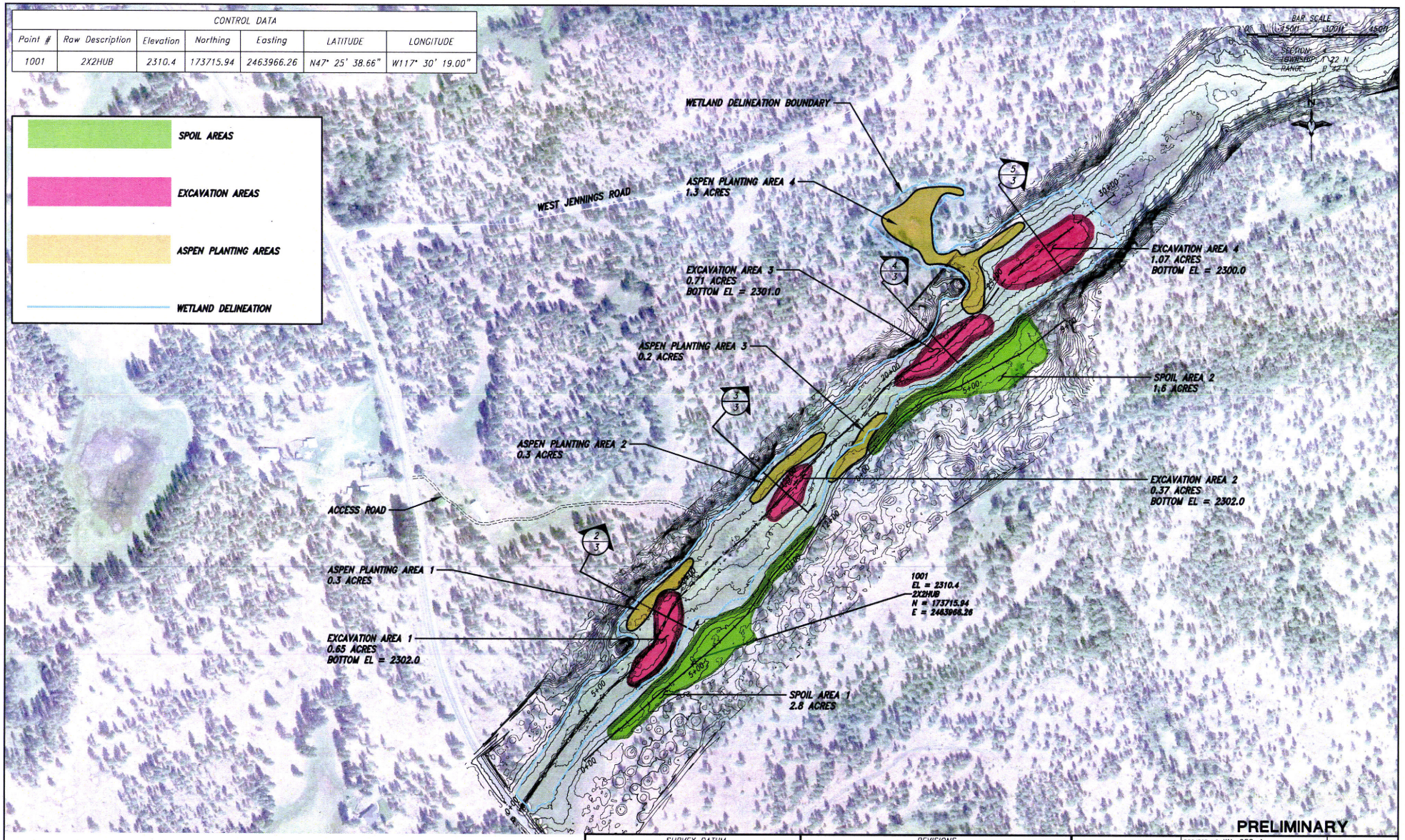
DUCKS UNLIMITED INC.
PacNW Field Office
(360) 885-2011

PROJECT NO. US-WA-285-1
TURNBULL NWR
HORNER MEADOW RESTORATION
COVER SHEET

GENERAL INFORMATION
DESIGNED BY: BH
DRAWN BY: DMC
SURVEYED BY: JPS
CHECKED BY:

DATE: SEPT. 2012
SHEET NO. 1 OF 3
APPROVED BY:

D:_WASHINGTON\WA 285-1 Horner Meadows\ACAD\WA 258-1 HORNER MEADOWS AUG 2013\dwg\WA 285-1 Horner Meadow 601.dwg, 9/13/2013 2:01:33 PM, DMC



PRELIMINARY

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SURVEY DATUM	
SURVEY DATE:	JULY 2013 & LIDAR BY WATERSHED SCIENCES
HORIZONTAL DATUM:	WA STATE PLANE NORTH ZONE NAD83
VERTICAL DATUM:	NAVD88
GEOID MODEL:	X
CONTOUR INTERVAL:	1ft
AERIAL PHOTO:	X

REVISIONS			
REV. NO.	DESCRIPTION	DATE	APPROVED
5			
4			
3			
2			
1			

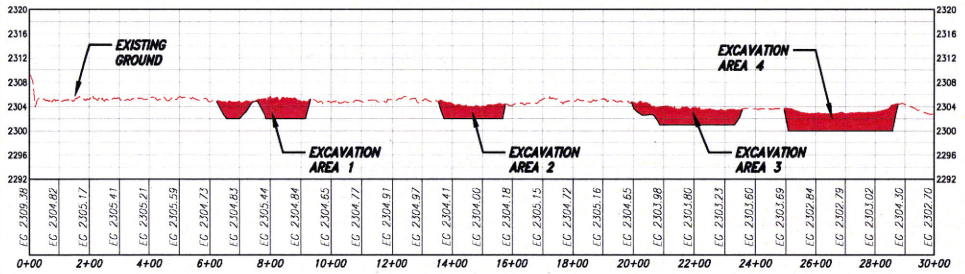
DUCKS UNLIMITED INC.
PacNW Field Office
(360) 885-2011

PROJECT NO. WA-258-1

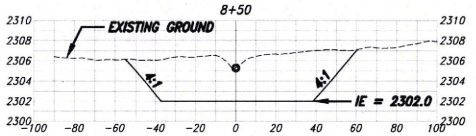
HORNER MEADOWS RESTORATION PLAN VEW

GENERAL INFORMATION
DESIGNED BY: BH
DRAWN BY: DMC
SURVEYED BY: JPS
CHECKED BY:

DATE: SEPT. 2013
SHEET NO. 2 OF 3
APPROVED BY:



1/3 CENTERLINE PROFILE



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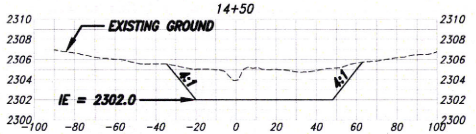

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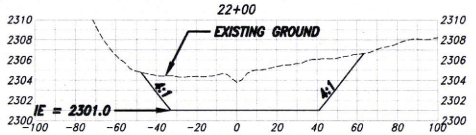

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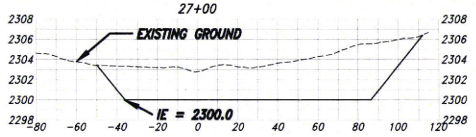

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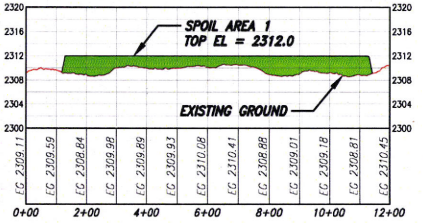
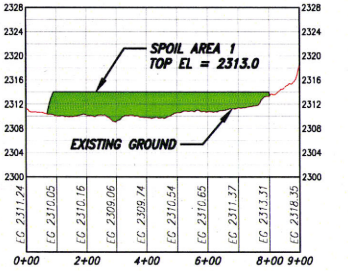
SPOIL AREA 1



6/3 CENTERLINE PROFILE

SPOIL 2



7/3 CENTERLINE PROFILE

PRELIMINARY

REVISIONS			
REV. NO.	DESCRIPTION	DATE	APPROVED
5			
4			
3			
2			
1			

DUCKS UNLIMITED INC.
PacNW Field Office
(360) 885-2011

PROJECT NO. WA-258-1

HORNER MEADOWS RESTORATION
PROFILE AND CROSS-SECTIONS

GENERAL INFORMATION
DESIGNED BY: BH
DRAWN BY: DMC
SURVEYED BY: JPS
CHECKED BY:

DATE: SEPT. 2013
SHEET NO. 3 OF 3
APPROVED BY:

Utility Notification Center
CALL BEFORE YOU DIG

D:_WASHINGTON\WA-285-1 Horner Meadows\ACAD\WA-258-1 HORNER MEADOWS AUG 2013\dwg\WA-285-1 Horner Meadow 802-003.dwg, 9/13/2013 1:58:04 PM, DMC