

# WASHINGTON DEPARTMENT OF FISH AND WILDLIFE

WENAS WLA - WENAS UNIT  
DURR ROAD GUN RANGE  
KS:R167:19-2

## INDEX

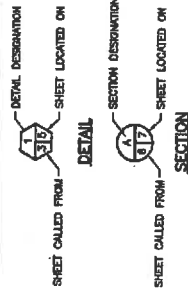
### SHEET NO.

1. COVER SHEET
2. EXISTING SITE PLAN, STATE & VICINITY MAP
3. GENERAL NOTES & EROSION CONTROL DETAIL
4. OVERALL SITE PLAN
5. 100 YARD BUFFER ZONE PLAN
6. 200 YARD BUFFER ZONE PLAN
7. 20 YARD PISTOL RANGE PROFILE & SECTION
8. 20 YARD PISTOL RANGE PLAN & SECTION
9. 20 & 100 YARD RANGES PARKING & ACCESS GRADING PLAN
10. STORMWATER MANAGEMENT PLAN & DETAILS
11. CONSTRUCTION DETAILS 1
12. CONSTRUCTION DETAILS 2

## ABBREVIATIONS

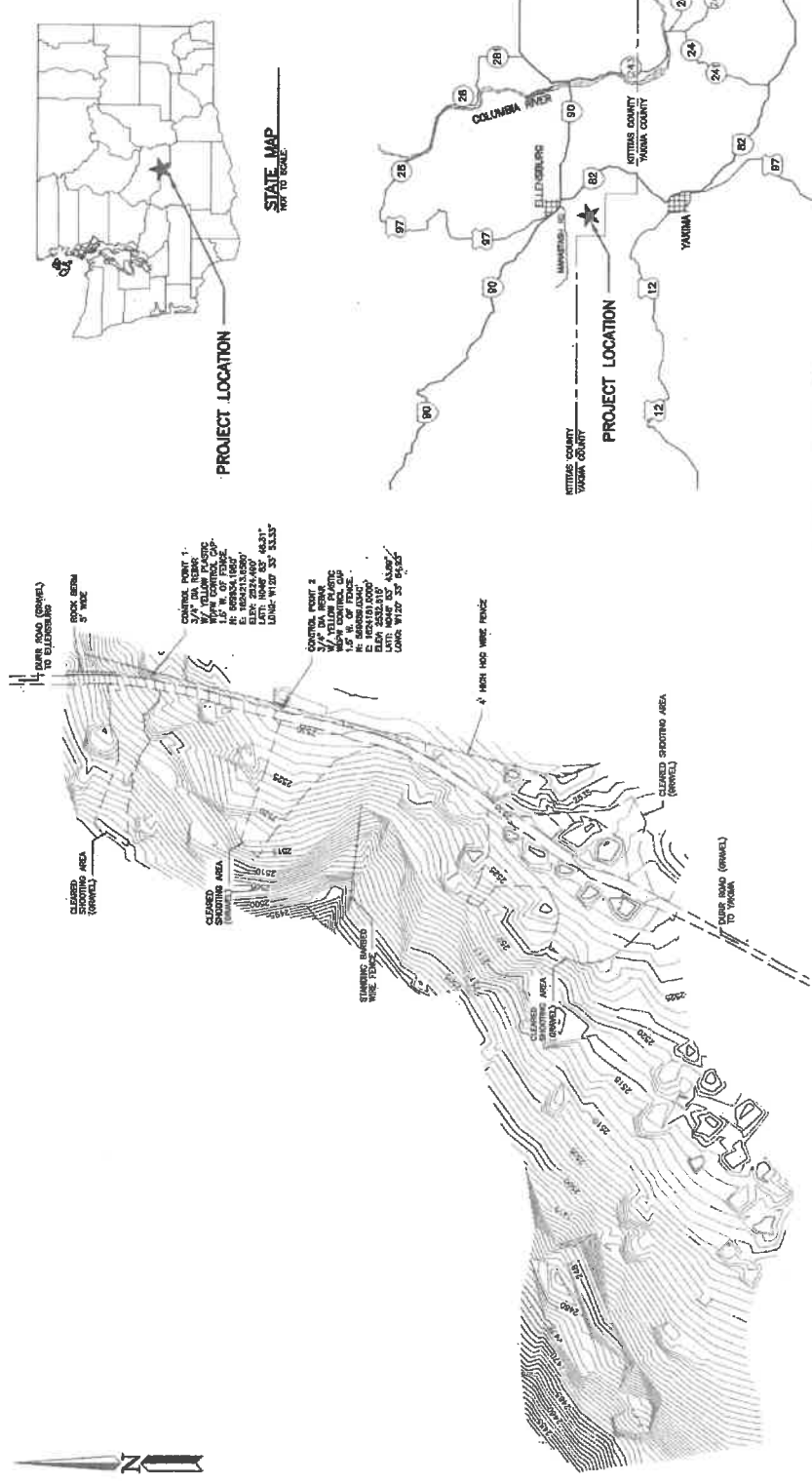
APPROX.	APPROXIMATELY
BM	BENCH MARK
CL	CLIMATE
CLR	CLAY
CONC	CONCRETE
CORR	CORROSION
CR	CRUSHED
CSTC	CRUSHED SURFACE TOP COURSE
DIA	DIAMETER
DR	DRAINAGE
FR	FINISH GRADE
GR	GRAVEL
IR	IRREGULAR
MFG	MANUFACTURER'S
MFR	MANUFACTURING
MS	MATERIAL
MSE	MANUFACTURER'S
MSL	MEAN SEA LEVEL
OD	OUTSIDE DIAMETER
REF	REFERENCED
SEC	SECTION
SP	SUBJECT SPECIFICATIONS
TP	TYPICAL

## SHEET SYMBOLS



NOTE REFERENCE  
REFERENCE DESIGNATION TO A  
NOTE, A PART, OR MATERIAL IN A  
SCHEDULE/TABLE

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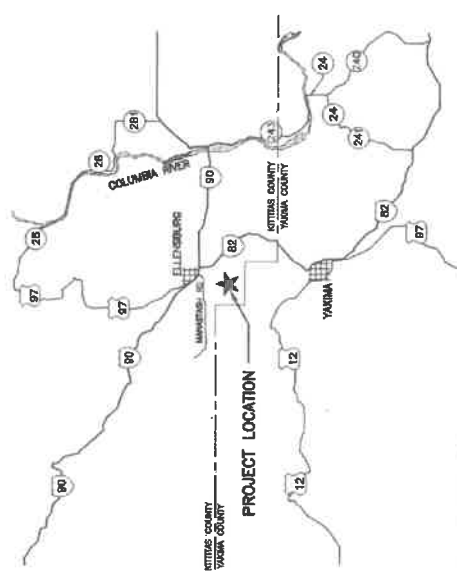
CLEARING POINT 1  
 3/4" DIA. ROCK  
 1/4" YELLOW PLASTIC  
 1.5' N. OF FENCE  
 E. BOUNDARY  
 ELEV. 2828.400' 48.87'  
 LONG. W127 57 54.53"  
 CLEARING POINT 2  
 3/4" DIA. ROCK  
 1/4" YELLOW PLASTIC  
 1.5' N. OF FENCE  
 E. BOUNDARY  
 ELEV. 2828.400' 48.87'  
 LONG. W127 57 54.53"



EXISTING SITE PLAN  
SCALE: 1" = 100'



PROJECT LOCATION  
STATE MAP  
KEY TO SCALE



VICINITY MAP  
KEY TO SCALE

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**PROPERTY INFORMATION:**  
 ADDRESS: DURR ROAD  
 COUNTY: KITTITAS  
 DISTRICT: 12  
 SECTION: 12

**DEERING LOCATIONS:**  
 FROM ELLERENBURG  
 ROAD COURSE ON CHAMP RD (0.3 MI)  
 TURN RIGHT ONTO E. UPRIMM RD (0.1 MI)  
 TURN LEFT ONTO DURR ROAD (0.3 MI)



WASHINGTON DEPARTMENT OF <b>FISH &amp; WILDLIFE</b>		WENAS WLA - WENAS UNIT DURR ROAD GUN RANGE EXISTING SITE PLAN, STATE & VICINITY MAP	
BAR MEASURES ONE INCH ON 2-1/2" DRAWINGS BY: [Signature] CHECKED BY: A. J. LORRIS DATE: 11/19/19		PROJECT NO. KS-R18719-2 SHEET 2 OF 12	

**STANDARD BIDDING NOTES:**

1. ALL CONSTRUCTION TECHNIQUES AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT KITTITAS COUNTY AND WASHINGTON STATE DEPARTMENT OF FISH AND WILDLIFE (WDFW) STANDARDS AND AS SHOWN IN THESE PLANS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE WASHINGTON STATE DEPARTMENT OF FISH AND WILDLIFE (WDFW) AND THE KITTITAS COUNTY DEPARTMENT OF PUBLIC WORKS AND UTILITIES (KCDPU) PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE WASHINGTON STATE DEPARTMENT OF FISH AND WILDLIFE (WDFW) AND THE KITTITAS COUNTY DEPARTMENT OF PUBLIC WORKS AND UTILITIES (KCDPU) PRIOR TO THE START OF CONSTRUCTION.
3. A COPY OF THE APPROVED PLANS MUST BE ON SITE THROUGHOUT CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE PLANS ON SITE THROUGHOUT CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE WASHINGTON STATE DEPARTMENT OF FISH AND WILDLIFE (WDFW) AND THE KITTITAS COUNTY DEPARTMENT OF PUBLIC WORKS AND UTILITIES (KCDPU) PRIOR TO THE START OF CONSTRUCTION.
5. PRE-CONSTRUCTION MEETINGS WITH THE WORK, THE COUNTY, AND OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ATTENDING ALL PRE-CONSTRUCTION MEETINGS WITH THE WORK, THE COUNTY, AND OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ATTENDING ALL PRE-CONSTRUCTION MEETINGS WITH THE WORK, THE COUNTY, AND OWNER'S REPRESENTATIVE.
6. ALL WORK OPERATIONS CONDUCTED ON THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO, EXCAVATION, EROSION CONTROL, AND CONSTRUCTION, SHALL BE CONDUCTED IN ACCORDANCE WITH THE WASHINGTON STATE DEPARTMENT OF FISH AND WILDLIFE (WDFW) STANDARDS AND AS SHOWN IN THESE PLANS.
7. ALL STRUCTURE AND GRADING OF IMPROVEMENTS SHALL BE APPROVED BY WORK. CONSTRUCTION OPERATIONS SHALL BE APPROVED BY WORK. CONSTRUCTION OPERATIONS SHALL BE APPROVED BY WORK. CONSTRUCTION OPERATIONS SHALL BE APPROVED BY WORK.
8. THE CONTRACTOR SHALL NOTIFY KITTITAS VALLEY FIRE AND RESCUE (KVF) DISTRICT 2 (509-333-7283) OF ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT.
9. ALL LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN ESTABLISHED BY FIELD SURVEY AND SHALL BE PROTECTED THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE WASHINGTON STATE DEPARTMENT OF FISH AND WILDLIFE (WDFW) AND THE KITTITAS COUNTY DEPARTMENT OF PUBLIC WORKS AND UTILITIES (KCDPU) PRIOR TO THE START OF CONSTRUCTION.
10. THE CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING UTILITIES AND UTILITIES BARRIED BY EXISTING STRUCTURES TO THEIR ORIGIN WITHIN AREAS IDENTIFIED BY THE PLANS.
11. THE CONTRACTOR SHALL ADJUST ALL EXISTING MAJOR DRAINAGE STRUCTURES UPON THE WORK TO MAINTAIN EXISTING DRAINAGE PATTERNS AND TO PROTECT EXISTING UTILITIES.
12. THE CONTRACTOR SHALL PROTECT FOR ALL CONSTRUCTION ITEMS REQUIRED BY THE DISPECTOR, WASHINGTON STATE DEPARTMENT OF FISH AND WILDLIFE (WDFW) AND THE KITTITAS COUNTY DEPARTMENT OF PUBLIC WORKS AND UTILITIES (KCDPU).
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17. CONSTRUCTION SHALL COORDINATE ALL ELECTRICAL WORK WITH POWER COMPANY.
18. CONSTRUCTION SHALL NOT MAKE ANY REVISIONS IN THE FIELD WITHOUT PRIOR WRITTEN APPROVAL BY THE COUNTY INSPECTOR.
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**DISCREPANCIES:**

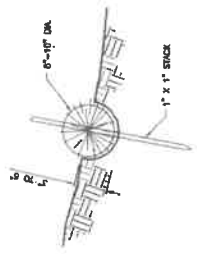
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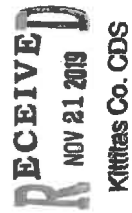
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**STRAW WATTLE DETAIL**  
NOT TO SCALE

**CONSTRUCTION SPECIFICATIONS:**

1. PREPARE THE SLOPE BEFORE THE WATTLE PROCEDURE IS STARTED.
2. SHALLOW CULVERTS SHOULD BE SLOTTED AS WORK PROCEEDS.
3. DO NOT TRENCH ALONG THE SLOPE OR EXCAVATE TO EXPOSE SOILS IN THE TRENCH. THE TRENCH SHOULD BE REPAIRED TO ACCOMMODATE THE TRENCHING OF THE STRAW WATTLE. THE TRENCH SHOULD BE REPAIRED TO ACCOMMODATE THE TRENCHING OF THE STRAW WATTLE.
4. IT IS CRITICAL THAT ROLLS ARE INSTALLED PERPENDICULAR TO WATER FLOW, PARALLEL TO THE SLOPE CONTOUR.
5. START BUILDING TRENCHES AND INSTALL ROLLS FROM THE BOTTOM OF THE SLOPE AND WORK UP.
6. CONSTRUCT ROLLS AT SPACINGS OF 3 TO 12 FEET APART DEPENDING ON SLOPE. ROLLS SHOULD BE REPAIRED TO ACCOMMODATE THE TRENCHING OF THE STRAW WATTLE. THE TRENCH SHOULD BE REPAIRED TO ACCOMMODATE THE TRENCHING OF THE STRAW WATTLE.
7. LAY THE ROLLS ALONG THE TRENCHES STRIP BY STRIP AGAINST THE SOIL. MAKE SURE ROLLS ARE CONTACT WITH THE SOIL AND THE STRAW WATTLE.
8. USE A STRAIGHT EDGE TO DRIVE ROLLS THROUGH THE WATTLE AND INTO THE SOIL FOR THE WATTLE ON WOODEN STAKES.
9. DRIVE THE STAKES THROUGH PREPARED HOLE INTO SOIL. MAKE ONLY 1 OR 2 INCHES OF STAKE EXPOSED ABOVE ROLL.
10. IF WATTLE WALKS EXPOSED REFER TO LINE STAKES BEST MANAGEMENT PRACTICES.
11. INSTALL STAKES AT LEAST EVERY 4 FEET ALONG THROUGH THE WATTLE. INSTALL STAKES AT LEAST EVERY 4 FEET ALONG THROUGH THE WATTLE. INSTALL STAKES AT LEAST EVERY 4 FEET ALONG THROUGH THE WATTLE.
12. INSPECT THE STRAW ROLLS AND THE SLOPE AFTER SIGNIFICANT STORMS. MAKE SURE THE ROLLS ARE IN CONTACT WITH THE SOIL.
13. REPAIR ANY ROLLS OR GULLIES PROMPTLY.
14. REEDED OR REFLANT VEGETATION IF NECESSARY UNTIL THE SLOPE IS STABILIZED.



PROJECT NO.	KSRT16719-2
SHEET	3
OF	12

WENAS WLA - WENAS UNIT	0
DURR ROAD GUN RANGE	1
GENERAL NOTES & EROSION CONTROL DETAIL	2

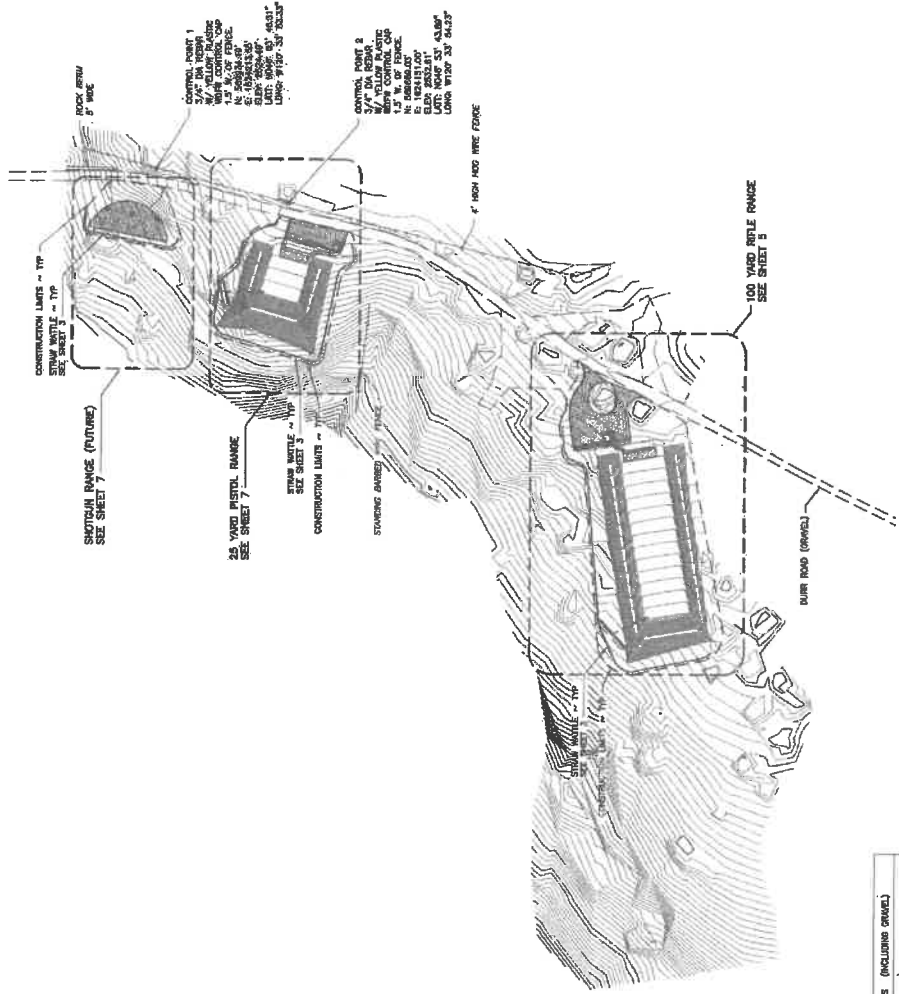
WASHINGTON DEPARTMENT OF FISH & WILDLIFE

REVISION DESCRIPTION

BY: [Signature]

DATE: [Date]

DATE: 09/21/2019



PROPOSED SITE PLAN  
SCALE: 1" = 100'



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SITE	CUT	FILL
PARROW LOTS # CONC.	258.84	284.64
GRAVEL PATH # CONC. 1	16.87	10.07
SHOOTING RANGE # CONC. (PHASE 2)	45.43	45.43
TOTALS	321.14	339.14

SITE	CUT	NET	LAND DISTURBANCE
OVERALL	2405.78	9774.58 (FULL)	182,884.13 SQ. FT. = 4.21 ACRES
PHASE 1	1740.74	4615.84 (FULL)	145,118.68 SQ. FT. = 3.29 ACRES
PHASE 2 25 TO 2500	11.21	1042.60 (FULL)	10,248.78 SQ. FT. = 0.23 ACRES
PHASE 2 100 TO 2500	329.29	468.63	4312.25 (FULL)
PHASE 3 SHOOTING	602.54	411	17,277.38 SQ. FT. = 0.39 ACRES

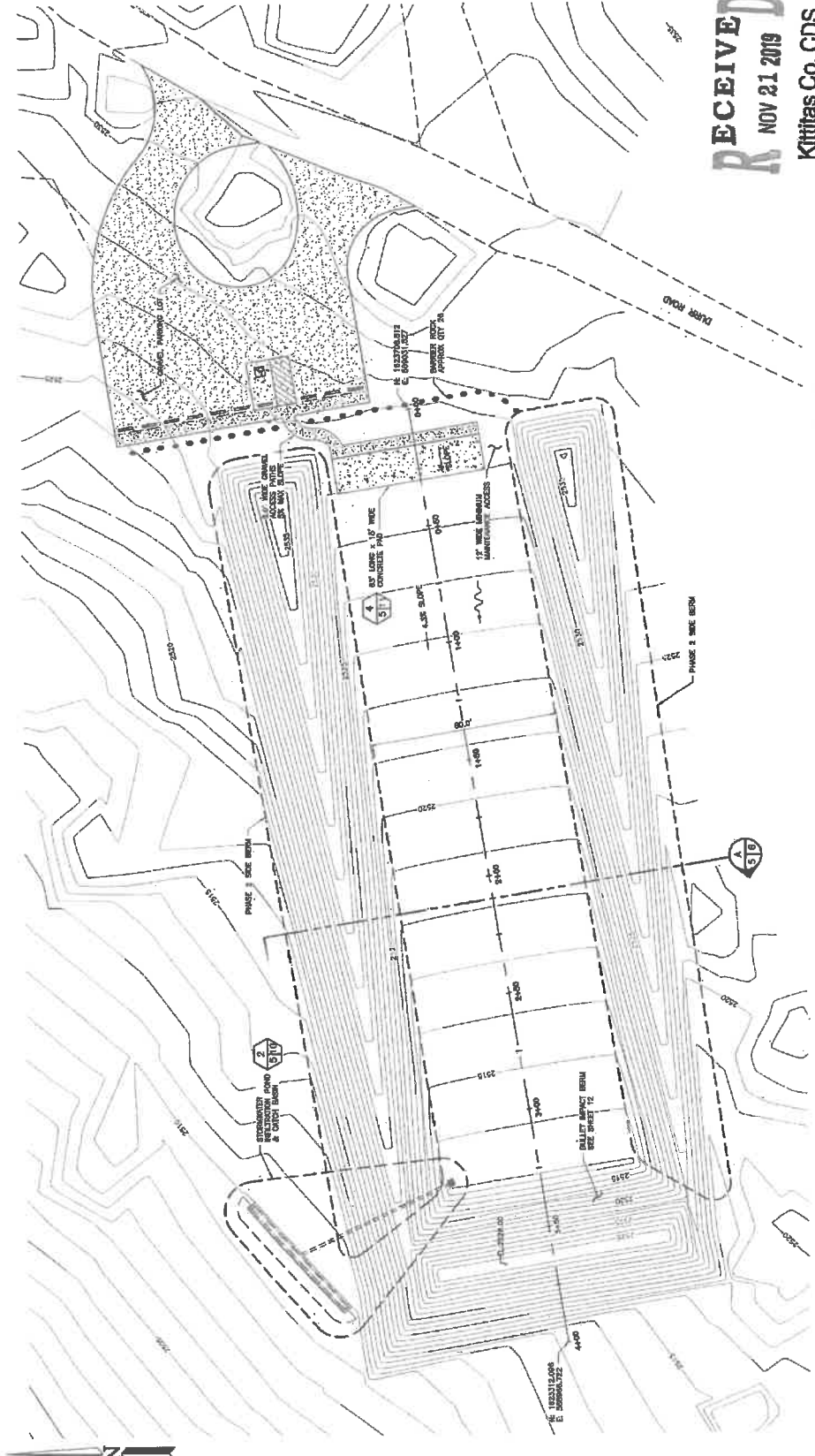


WASHINGTON DEPARTMENT OF  
**FISH & WILDLIFE**

DATE: 05/22/2019  
BY: J. L. JENSEN  
REVISION DESCRIPTION: AND REVISION FOR CONSTRUCTION  
DRAWN BY: J. L. JENSEN  
CHECKED BY: J. L. JENSEN  
SCALE: 1" = 100'

PROJECT NO. KSR16719-2  
SHEET 4 OF 12

WENAS WLA - WENAS UNIT  
DURR ROAD GUN RANGE  
OVERALL SITE PLAN



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**100 YARD RIFLE RANGE SITE PLAN**  
 SHEET 1 OF 2

NOTE: SEE SHEET 9 FOR PARKING AND ACCESS GRADING



**LEGEND:**  
 - - - SLOPE DIRECTION  
 ~~~~~ TYPIC DIRECTION

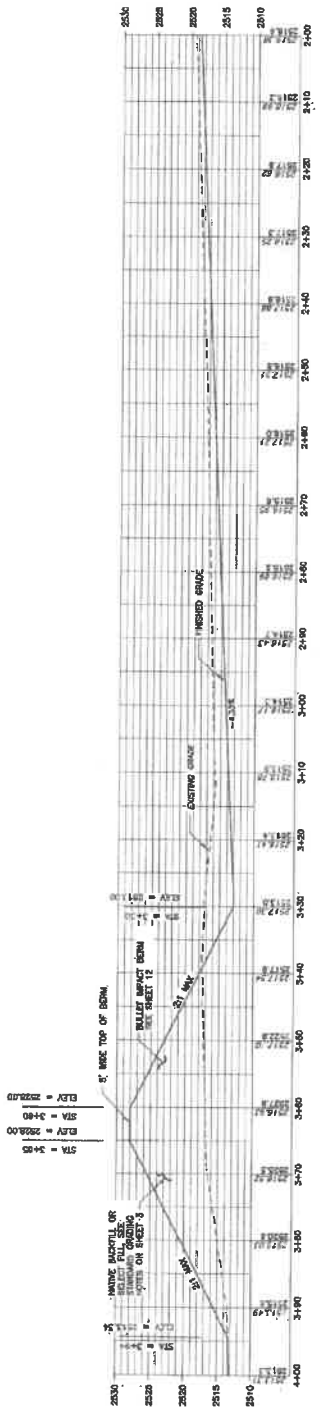
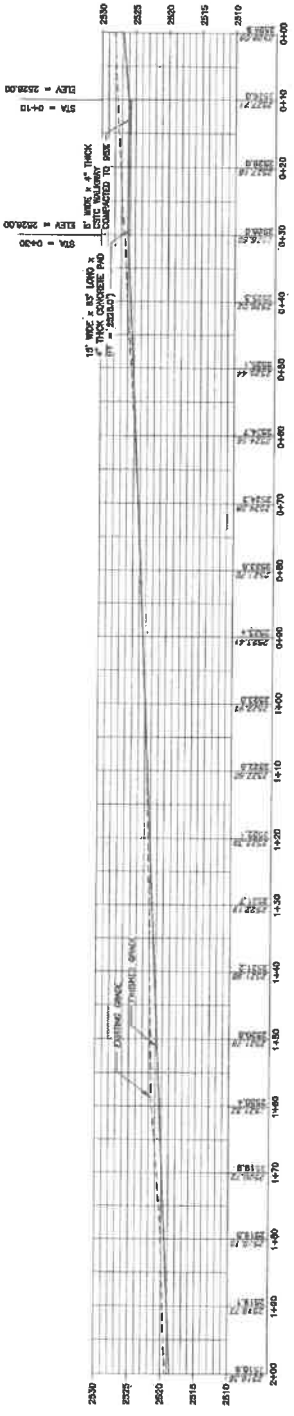
PROJECT NO.  
 KSR18719-2  
 SHEET OF  
 5 12

WENAS WLA - WENAS UNIT  
 DURR ROAD GUN RANGE  
 100 YARD RIFLE RANGE  
 SITE PLAN

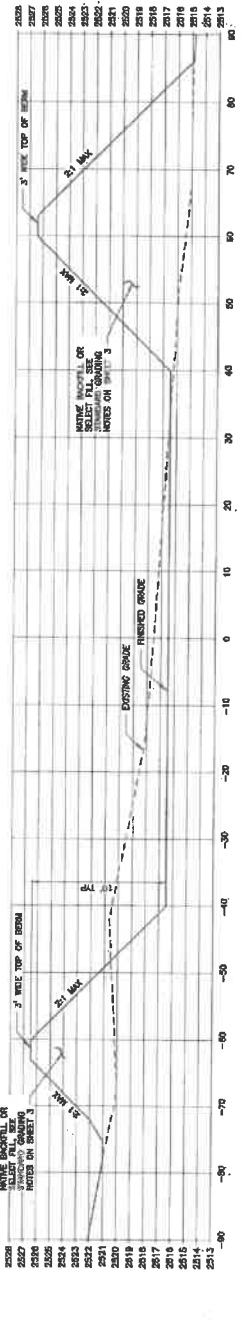
DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 DRAWN DESCRIPTION: \_\_\_\_\_  
 AND RELEASED FOR CONSTRUCTION: \_\_\_\_\_  
 PROJECT NO.: \_\_\_\_\_  
 SHEET NO.: \_\_\_\_\_  
 DATE: 09/21/2019



WASHINGTON DEPARTMENT OF  
**FISH & WILDLIFE**



100-YARD RIFLE RANGE PROFILE



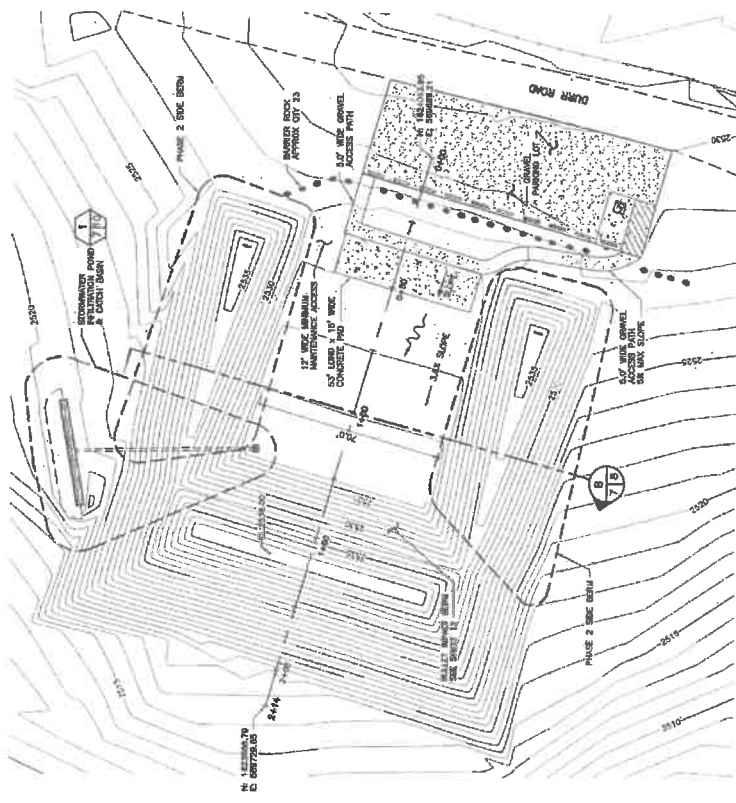
100-YARD RIFLE RANGE SECTION

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Kitittas Co. CDS

|                                                     |                           |                                |                    |
|-----------------------------------------------------|---------------------------|--------------------------------|--------------------|
| <b>WASHINGTON DEPARTMENT OF FISH &amp; WILDLIFE</b> |                           | <b>WENAS WLA -- WENAS UNIT</b> |                    |
|                                                     |                           | <b>DURR ROAD GUN RANGE</b>     |                    |
| <b>PROFILE &amp; SECTION</b>                        |                           | <b>100 YARD RIFLE RANGE</b>    |                    |
| PROJECT NO.<br>KSR19719-2                           | SHEET<br>6                | OF<br>12                       | DATE<br>08/22/2019 |
| DRAWN BY<br>J. J. WENAS                             | CHECKED BY<br>J. J. WENAS | DATE<br>08/22/2019             | SCALE<br>AS SHOWN  |

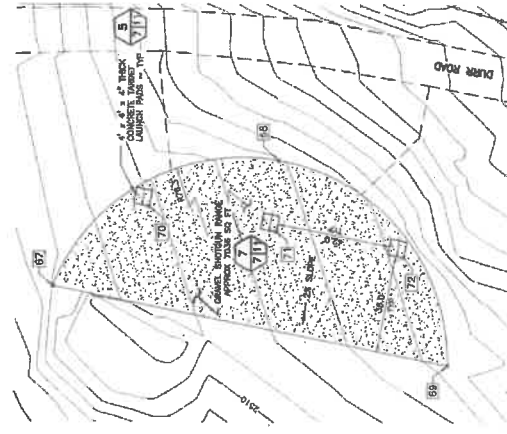
**SHOTGUN POINT DATA**

| POINT # | EASTING    | NORTHING | ELEVATION | DESCRIPTION   |
|---------|------------|----------|-----------|---------------|
| 67      | 102410.32  | 57004.79 | 2000.00   | INNER CURVE   |
| 68      | 102410.32  | 57004.79 | 2016.68   | END CURVE     |
| 69      | 102410.32  | 57013.11 | 2014.34   | END CURVE     |
| 70      | 102410.32  | 57022.42 | 2012.23   | SW PAD CORNER |
| 71      | 1024123.81 | 56977.11 | 2014.44   | SW PAD CORNER |
| 72      | 1024116.31 | 56922.88 | 2016.03   | SW PAD CORNER |



**25 YARD PISTOL RANGE SITE PLAN**  
SCALE: 1" = 20'

NOTE: SEE SHEET 9 FOR PARKING AND ACCESS GRADING



**SHOTGUN RANGE SITE & GRADING PLAN**  
SCALE: 1" = 20'

NOTE: SEE SHEET 9 FOR PARKING AND ACCESS GRADING



**RECEIVED**  
NOV 21 2019

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LEGEND:  
← SLOPE DIRECTION  
~ FLOW DIRECTION

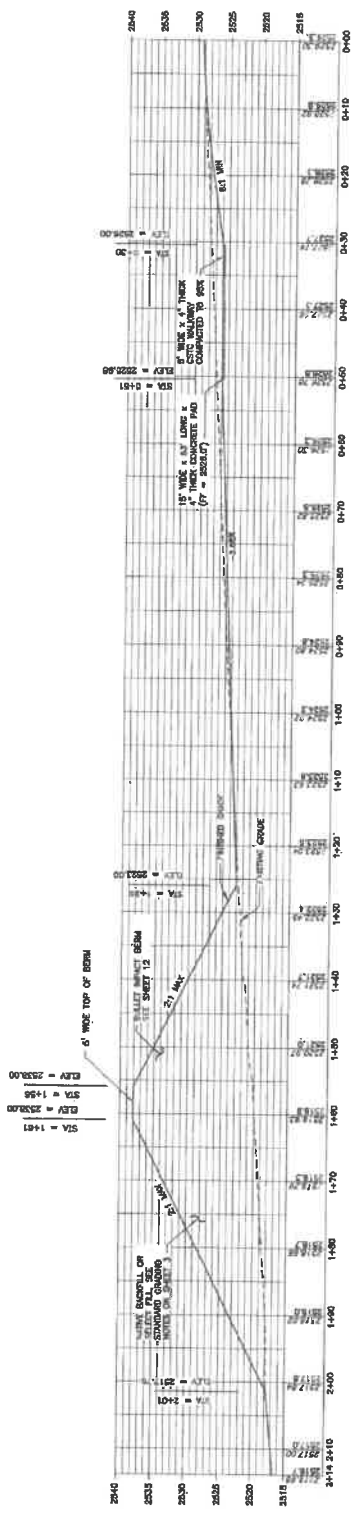


**WASHINGTON DEPARTMENT OF FISH & WILDLIFE**

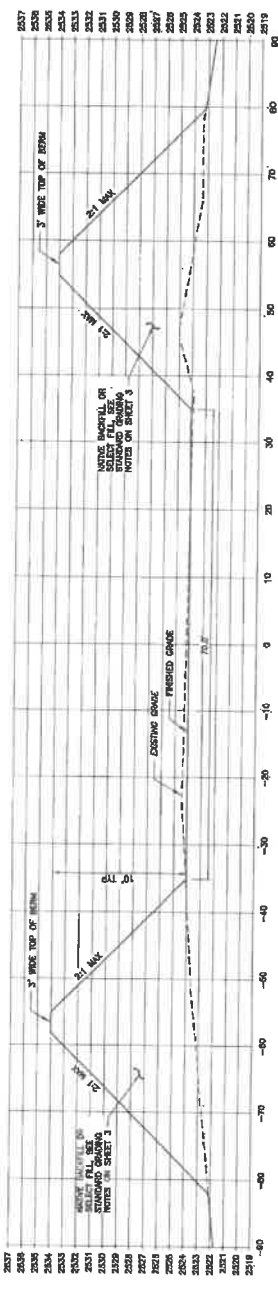
|             |                             |
|-------------|-----------------------------|
| PROJECT NO. | KS:R18719-2                 |
| DATE        | 11/20/19                    |
| BY          | JLB                         |
| FOR         | FOR REVIEW FOR CONSTRUCTION |
| DATE        | 11/20/19                    |
| BY          | JLB                         |
| FOR         | FOR REVIEW FOR CONSTRUCTION |
| DATE        | 11/20/19                    |
| BY          | JLB                         |
| FOR         | FOR REVIEW FOR CONSTRUCTION |

**WENAS WLA - WENAS UNIT**  
**DURR ROAD GUN RANGE**  
**25 YARD PISTOL RANGE PLAN & SHOTGUN RANGE SITE & GRADING PLAN**

SHEET 7 OF 12



25 YARD PISTOL RANGE PROFILE



25 YARD PISTOL RANGE SECTION

RECEIVED  
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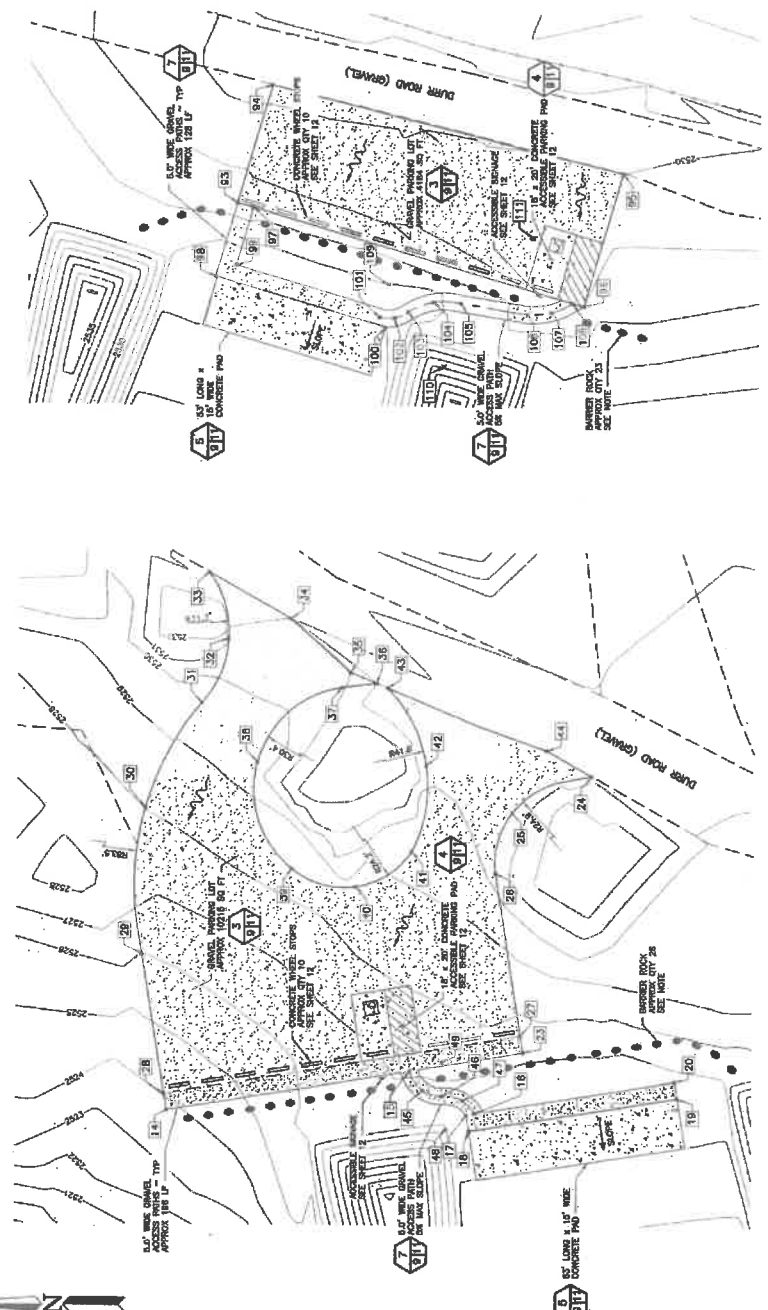
|                                                                |                                                                                                   |                                                                                                          |
|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <p>WASHINGTON DEPARTMENT OF<br/><b>FISH &amp; WILDLIFE</b></p> | <p>DATE: _____</p> <p>BY: _____</p> <p>FOR: _____</p> <p>DATE: _____</p>                          | <p>PROJECT NO.<br/>KSR16719-2</p> <p>SHEET<br/>8</p> <p>OF<br/>12</p>                                    |
|                                                                | <p>REVISION DESCRIPTION<br/>AND RELEASED FOR CONSTRUCTION</p> <p>DATE: _____</p> <p>BY: _____</p> | <p>WENAS WLA - WENAS UNIT<br/>DURR ROAD GUN RANGE<br/>25 YARD PISTOL RANGE<br/>PROFILE &amp; SECTION</p> |



NOTE: INSTALL 5" x 4" W/4 BARBER ROCK (SLOTT 6-13/21) 4'-0" W/4 BARBER ROCK 1/2 DEPTH AND PLACED AS SHOWN IN DRAWING.

| 100 YARD RANGE POINT DATA |           |                    |             |                |
|---------------------------|-----------|--------------------|-------------|----------------|
| POINT #                   | EASTING   | NORTHING ELEVATION | DESCRIPTION |                |
| 14                        | 160362.07 | 58114.15           | 2624.40     | FS PATH CORNER |
| 15                        | 160370.00 | 58101.05           | 2628.00     | FS PATH CORNER |
| 16                        | 160381.59 | 58091.08           | 2628.00     | FS PATH CORNER |
| 17                        | 160391.18 | 58084.41           | 2628.48     | FS PATH CORNER |
| 18                        | 160398.03 | 58081.85           | 2628.00     | FS PATH CORNER |
| 19                        | 160398.27 | 58077.33           | 2628.00     | FS PATH CORNER |
| 20                        | 160370.31 | 58062.74           | 2628.92     | FS PATH CORNER |
| 23                        | 160370.71 | 58047.81           | 2628.47     | FS PATH CORNER |
| 24                        | 160370.44 | 58027.03           | 2628.83     | FS BENCH CURVE |
| 26                        | 160370.52 | 58021.33           | 2629.37     | FS 1/4" CURVE  |
| 28                        | 160370.30 | 58008.24           | 2629.41     | FS 1/4" CURVE  |
| 27                        | 160371.64 | 58004.43           | 2628.48     | FS 1/4" CURVE  |
| 28                        | 160367.01 | 58014.98           | 2624.40     | FS 1/4" CURVE  |
| 29                        | 160374.02 | 58013.83           | 2628.00     | FS 1/4" CURVE  |
| 30                        | 160374.02 | 58013.83           | 2628.00     | FS 1/4" CURVE  |
| 31                        | 160374.02 | 58013.83           | 2628.00     | FS 1/4" CURVE  |
| 32                        | 160374.02 | 58013.83           | 2628.00     | FS 1/4" CURVE  |
| 33                        | 160374.02 | 58013.83           | 2628.00     | FS 1/4" CURVE  |
| 34                        | 160374.02 | 58013.83           | 2628.00     | FS 1/4" CURVE  |
| 35                        | 160374.02 | 58013.83           | 2628.00     | FS 1/4" CURVE  |
| 36                        | 160374.02 | 58013.83           | 2628.00     | FS 1/4" CURVE  |
| 37                        | 160374.02 | 58013.83           | 2628.00     | FS 1/4" CURVE  |
| 38                        | 160374.02 | 58013.83           | 2628.00     | FS 1/4" CURVE  |
| 39                        | 160374.02 | 58013.83           | 2628.00     | FS 1/4" CURVE  |
| 40                        | 160374.02 | 58013.83           | 2628.00     | FS 1/4" CURVE  |
| 41                        | 160374.02 | 58013.83           | 2628.00     | FS 1/4" CURVE  |
| 42                        | 160374.02 | 58013.83           | 2628.00     | FS 1/4" CURVE  |
| 43                        | 160374.02 | 58013.83           | 2628.00     | FS 1/4" CURVE  |
| 44                        | 160374.02 | 58013.83           | 2628.00     | FS 1/4" CURVE  |
| 45                        | 160374.02 | 58013.83           | 2628.00     | FS 1/4" CURVE  |
| 46                        | 160374.02 | 58013.83           | 2628.00     | FS 1/4" CURVE  |
| 47                        | 160374.02 | 58013.83           | 2628.00     | FS 1/4" CURVE  |
| 48                        | 160374.02 | 58013.83           | 2628.00     | FS 1/4" CURVE  |
| 49                        | 160374.02 | 58013.83           | 2628.00     | FS 1/4" CURVE  |

| 25 YARD RANGE POINT DATA |           |                    |             |                         |
|--------------------------|-----------|--------------------|-------------|-------------------------|
| POINT #                  | EASTING   | NORTHING ELEVATION | DESCRIPTION |                         |
| 93                       | 160406.03 | 58085.07           | 2628.00     | FS CORNER               |
| 94                       | 160412.08 | 58084.46           | 2629.20     | FS CORNER               |
| 95                       | 160407.26 | 58079.45           | 2629.40     | FS CORNER               |
| 96                       | 160407.48 | 58081.38           | 2628.00     | FS CORNER               |
| 97                       | 160406.82 | 58080.27           | 2628.00     | FS PATH CORNER          |
| 98                       | 160406.08 | 58079.42           | 2628.00     | FS PATH CORNER          |
| 99                       | 160404.38 | 58080.33           | 2628.00     | FS PATH CORNER          |
| 100                      | 160405.04 | 58080.36           | 2628.00     | FS PATH CORNER          |
| 101                      | 160404.07 | 58082.40           | 2628.00     | FS PATH CL. BEGIN CURVE |
| 102                      | 160403.00 | 58082.47           | 2628.00     | FS PATH CL. MID CURVE   |
| 103                      | 160402.72 | 58083.71           | 2628.00     | FS PATH CL. END CURVE   |
| 104                      | 160400.71 | 58084.27           | 2628.00     | FS PATH CL. MID CURVE   |
| 105                      | 160400.83 | 58082.46           | 2628.00     | FS PATH CL. BEGIN CURVE |
| 106                      | 160400.00 | 58082.40           | 2628.00     | FS PATH CL. MID CURVE   |
| 107                      | 160400.00 | 58082.40           | 2628.00     | FS PATH CL. END CURVE   |
| 108                      | 160400.00 | 58082.40           | 2628.00     | FS PATH CL. MID CURVE   |
| 109                      | 160400.00 | 58082.40           | 2628.00     | FS PATH CL. MID CURVE   |
| 110                      | 160400.00 | 58082.40           | 2628.00     | FS PATH CL. MID CURVE   |
| 111                      | 160400.00 | 58082.40           | 2628.00     | FS PATH CL. MID CURVE   |



100 YARD RANGE PARKING & ACCESS GRADING PLAN  
25 YARD RANGE PARKING & ACCESS GRADING PLAN

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NOV 21 2019  
Kittitas Co. CDS



LEGEND:  
SLOPE INDICATION  
FLOW DIRECTION

WASHINGTON DEPARTMENT OF  
**FISH & WILDLIFE**

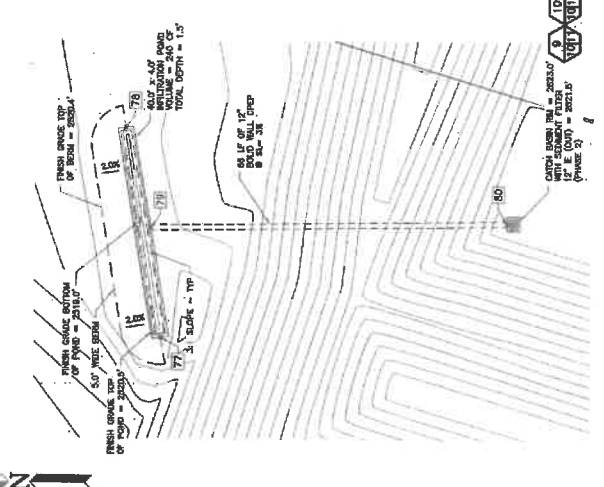
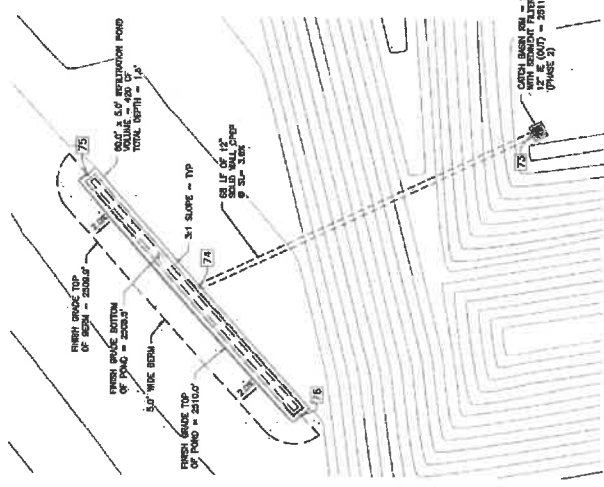
WENAS WLA - WENAS UNIT  
DURR ROAD GUN RANGE  
25 & 100 YARD RANGES  
PARKING & ACCESS GRADING PLAN

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BAR MEASURES ONE INCH ON 24,000 DRAWINGS  
DESIGNED BY J. HANSEN  
CHECKED BY D. SMITH  
DATE 10/23/2018

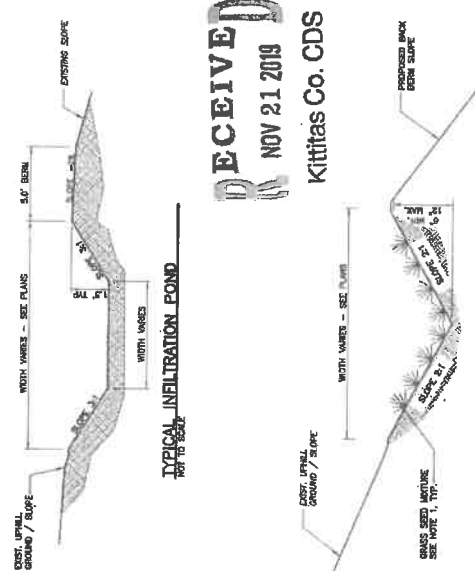
PROJECT NO. KS-R16719-2  
SHEET 9 OF 12

| STORMWATER POINT DATA |            |            |                |
|-----------------------|------------|------------|----------------|
| POINT #               | EASTING    | NORTHING   | DESCRIPTION    |
| 73                    | 1033270.48 | 5887112.38 | CATCH BASIN    |
| 74                    | 1033280.08 | 5887075.78 | 5.0' WIDE BERM |
| 75                    | 1033271.08 | 5887040.08 | 5.0' WIDE BERM |
| 76                    | 1033280.08 | 5886999.08 | 5.0' WIDE BERM |
| 77                    | 1033284.18 | 5887075.78 | 5.0' WIDE BERM |
| 78                    | 1033284.18 | 5886999.08 | 5.0' WIDE BERM |
| 79                    | 1033280.08 | 5887040.08 | 5.0' WIDE BERM |
| 80                    | 1033270.48 | 5887112.38 | CATCH BASIN    |

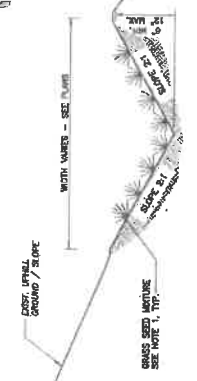


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 NOV 21 2018  
 Kittitas Co. CDS

**TYPICAL INFILTRATION POND**



**TYPICAL SWALE CONNECTOR DETAIL**



1. THE CSDS ARE TO BE FOR 100% STORMWATER.

| ITEM   | QUANTITY | UNIT    | PRICE | TOTAL |
|--------|----------|---------|-------|-------|
| 1.00   | 1.00     | sq. ft. | 1.00  | 1.00  |
| 2.00   | 1.00     | sq. ft. | 1.00  | 1.00  |
| 3.00   | 1.00     | sq. ft. | 1.00  | 1.00  |
| 4.00   | 1.00     | sq. ft. | 1.00  | 1.00  |
| 5.00   | 1.00     | sq. ft. | 1.00  | 1.00  |
| 6.00   | 1.00     | sq. ft. | 1.00  | 1.00  |
| 7.00   | 1.00     | sq. ft. | 1.00  | 1.00  |
| 8.00   | 1.00     | sq. ft. | 1.00  | 1.00  |
| 9.00   | 1.00     | sq. ft. | 1.00  | 1.00  |
| 10.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 11.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 12.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 13.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 14.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 15.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 16.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 17.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 18.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 19.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 20.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 21.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 22.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 23.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 24.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 25.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 26.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 27.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 28.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 29.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 30.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 31.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 32.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 33.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 34.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 35.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 36.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 37.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 38.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 39.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 40.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 41.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 42.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 43.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 44.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 45.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 46.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 47.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 48.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 49.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 50.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 51.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 52.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 53.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 54.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 55.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 56.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 57.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 58.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 59.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 60.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 61.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 62.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 63.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 64.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 65.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 66.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 67.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 68.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 69.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 70.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 71.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 72.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 73.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 74.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 75.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 76.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 77.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 78.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 79.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 80.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 81.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 82.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 83.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 84.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 85.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 86.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 87.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 88.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 89.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 90.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 91.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 92.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 93.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 94.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 95.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 96.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 97.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 98.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 99.00  | 1.00     | sq. ft. | 1.00  | 1.00  |
| 100.00 | 1.00     | sq. ft. | 1.00  | 1.00  |
| TOTALS |          |         |       | 14.4  |

**100 YARD BIELE RANGE STORMWATER PLAN**

**25 YARD PISTOL RANGE STORMWATER PLAN**

INDEX:  
 PHASE 1 INSTALL BATH BURN & P.V.  
 PHASE 2 INSTALL BATH BURN & P.V.



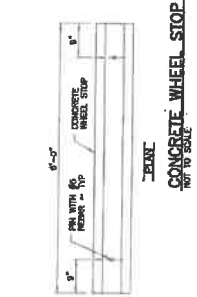
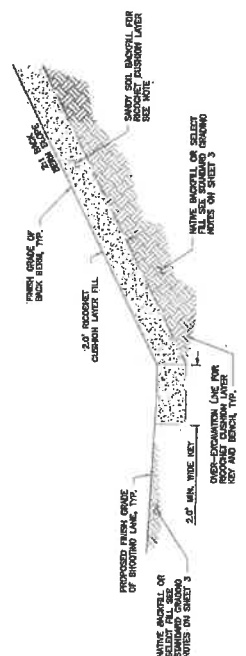
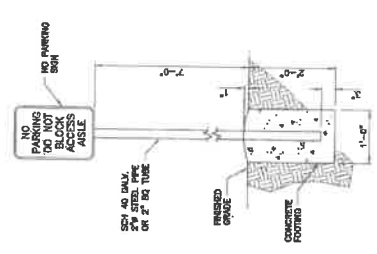
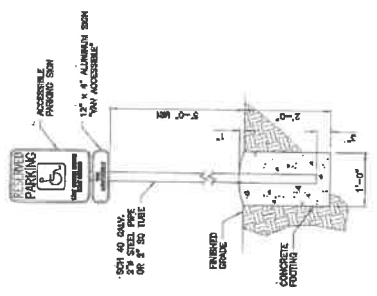
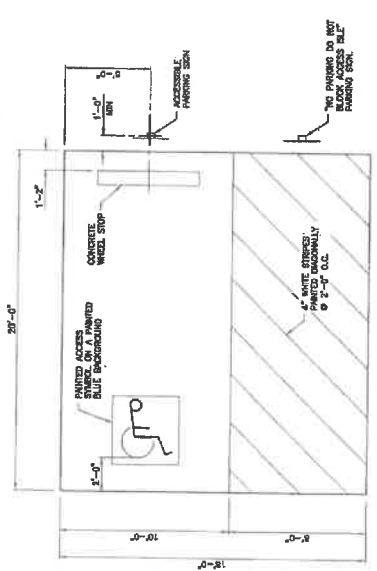
**WASHINGTON DEPARTMENT OF FISH & WILDLIFE**

DATE: 11/15/18  
 BY: J. JENSEN  
 CHECKED BY: J. JENSEN  
 DATE: 11/15/18

WENAS WLA - WENAS UNIT  
 DURR ROAD GUN RANGE  
 STORMWATER MANAGEMENT  
 PLAN & DETAILS

PROJECT NO. KSR181719-2  
 SHEET 10 OF 12





**RECEIVED**  
 NOV 21 2018  
 Kittitas Co. CDS



WASHINGTON DEPARTMENT OF  
**FISH & WILDLIFE**

WENAS WLA - WENAS UNIT  
 DURR ROAD GUN RANGE  
 CONSTRUCTION DETAILS 2

|             |             |
|-------------|-------------|
| PROJECT NO. | KSRI16718-2 |
| SHEET       | 12          |
| OF          | 12          |

|      |                     |
|------|---------------------|
| DATE | 05/21/2018          |
| BY   | DESIGNED BY A. WOOD |
| DATE | 05/21/2018          |
| BY   | CHECKED BY A. WOOD  |
| DATE | 05/21/2018          |
| BY   | DATE                |