

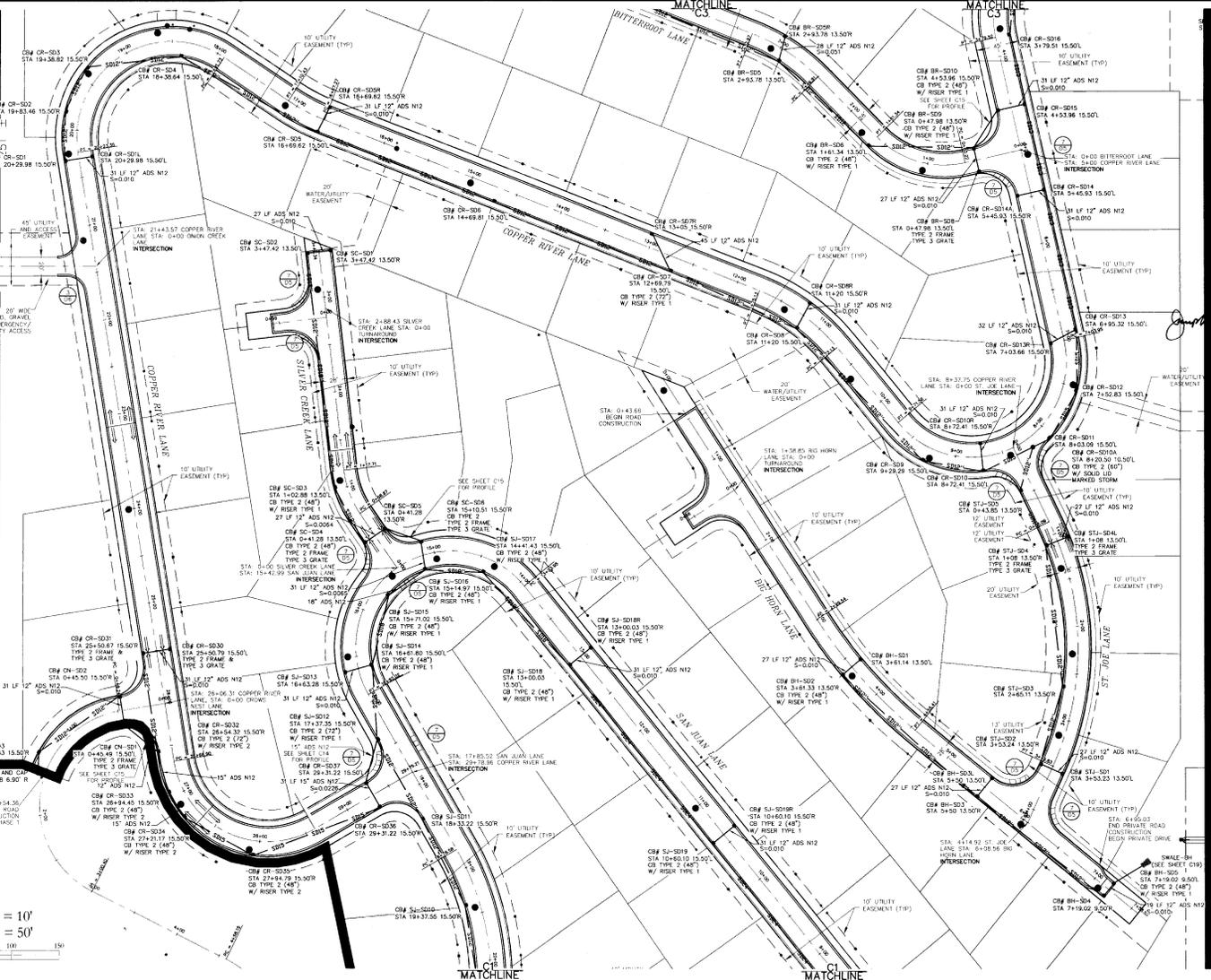
SPokane County Engineer of Public Works
CONSTRUCTION PLANS
 PROJECT # **1157**
 CONTRACT # **1157**
 CONTRACTOR **W. J. HANSEN**
 ENGINEER **W. J. HANSEN**
 REGISTERED PROFESSIONAL ENGINEER
 LICENSE # **1157**
 EXPIRES **04/30/2008**
 ALL WORK SHALL BE IN ACCORDANCE WITH THE
 SPOKANE COUNTY SPECIFICATIONS FOR
 CONSTRUCTION OF STORM DRAINAGE
 SYSTEMS.
 PERMIT REQUIRED. (SPOKANE COUNTY
 PERMITTING DIVISION)
 SPOKANE COUNTY SPECIFICATIONS FOR
 CONSTRUCTION OF STORM DRAINAGE
 SYSTEMS.

UNDERGROUND SERVICE ALERT
 ONE-CALL NUMBER
456-8000
 CALL TWO BUSINESS DAYS
 BEFORE YOU DIG



NOTE:
 1. ALL CATCH BASINS TO BE TYPE 1
 CATCH BASIN, TYPE 1 GRATE AND
 TYPE 1 FRAME UNLESS
 OTHERWISE NOTED.
 2. SEE SHEET 14 FOR ROAD
 HORIZONTAL ALIGNMENT DATA.

V-Scale 1" = 10'
 H-Scale 1" = 50'



SR 27-SW



ELK RIDGE HEIGHTS PHASE I
 STREET AND STORM DRAINAGE
 OVERVIEW PLAN SHEET
 SPOKANE COUNTY, WA

HIGHWAY 27

MARK	DATE	DESCRIPTION
1	11/17/07	PREPARED
2	11/17/07	CHECKED
3	11/17/07	APPROVED

C2

P1155 Eng Road Drainage

NOTE:
 1. ALL CATCH BASINS TO BE TYPE 1 CATCH BASIN,
 TYPE 1 GRATE AND TYPE 1 FRAME UNLESS
 OTHERWISE NOTED.
 2. SEE SHEET 14 FOR ROAD HORIZONTAL
 ALIGNMENT DATA.

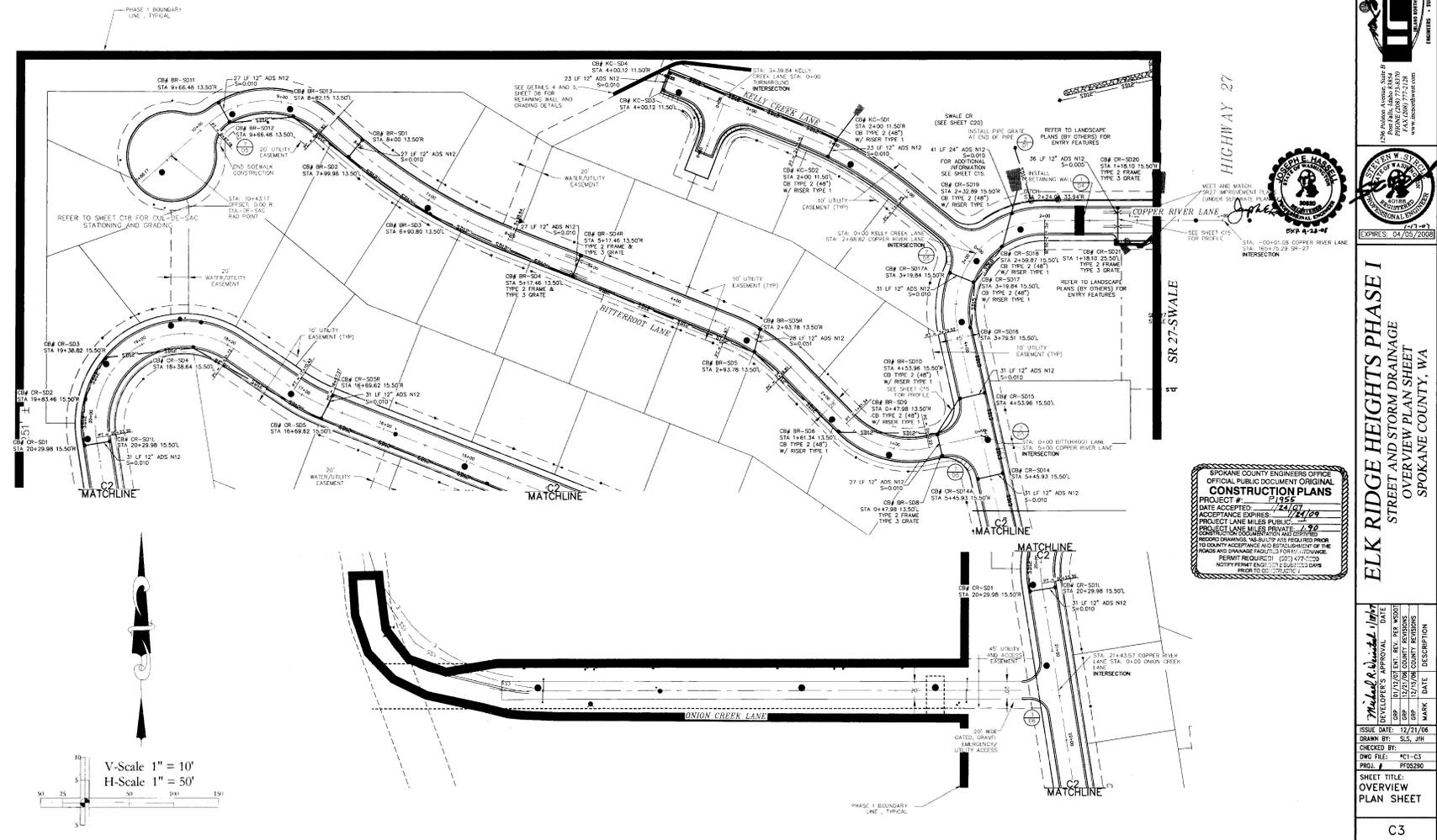
UNDERGROUND SERVICE ALERT
 ONE-CALL NUMBER
 456-8000
 CALL TWO BUSINESS DAYS
 BEFORE YOU DIG.



1000 W. Main St.
 Spokane, WA 99201
 (509) 325-1234
 www.mandengineering.com



EXPIRES: 04/02/2028



SPokane County Engineering Office
 OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
 PROJECT # 17-14-029
 DATE ACCEPTED 12/21/08
 ACCEPTANCE EXPIRES 12/21/12
 PROJECT LANE MILES PUBLIC 2.82
 PROJECT LANE MILES PRIVATE 2.82
 CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, AS-BUILT RECORDS AND PLOTTING TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE PLANS AND DRAWING FACILITY FOR FUTURE CHANGE.
 PERMIT REQUIRED (C) (1) 477-000
 NOTIFY PERMITS ENGINEER OF ANY CHANGES FROM TO BE MADE TO THESE PLANS.

ELK RIDGE HEIGHTS PHASE I
 STREET AND STORM DRAINAGE
 OVERVIEW PLAN SHEET
 SPOKANE COUNTY, WA

MARK	DATE	DESCRIPTION
1	12/21/08	ISSUE DATE
2	12/21/08	DRAWN BY: SCS, JH
3	12/21/08	CHECKED BY:
4	12/21/08	PROJECT NO: P705290
5	12/21/08	SHEET TITLE: OVERVIEW PLAN SHEET

C3

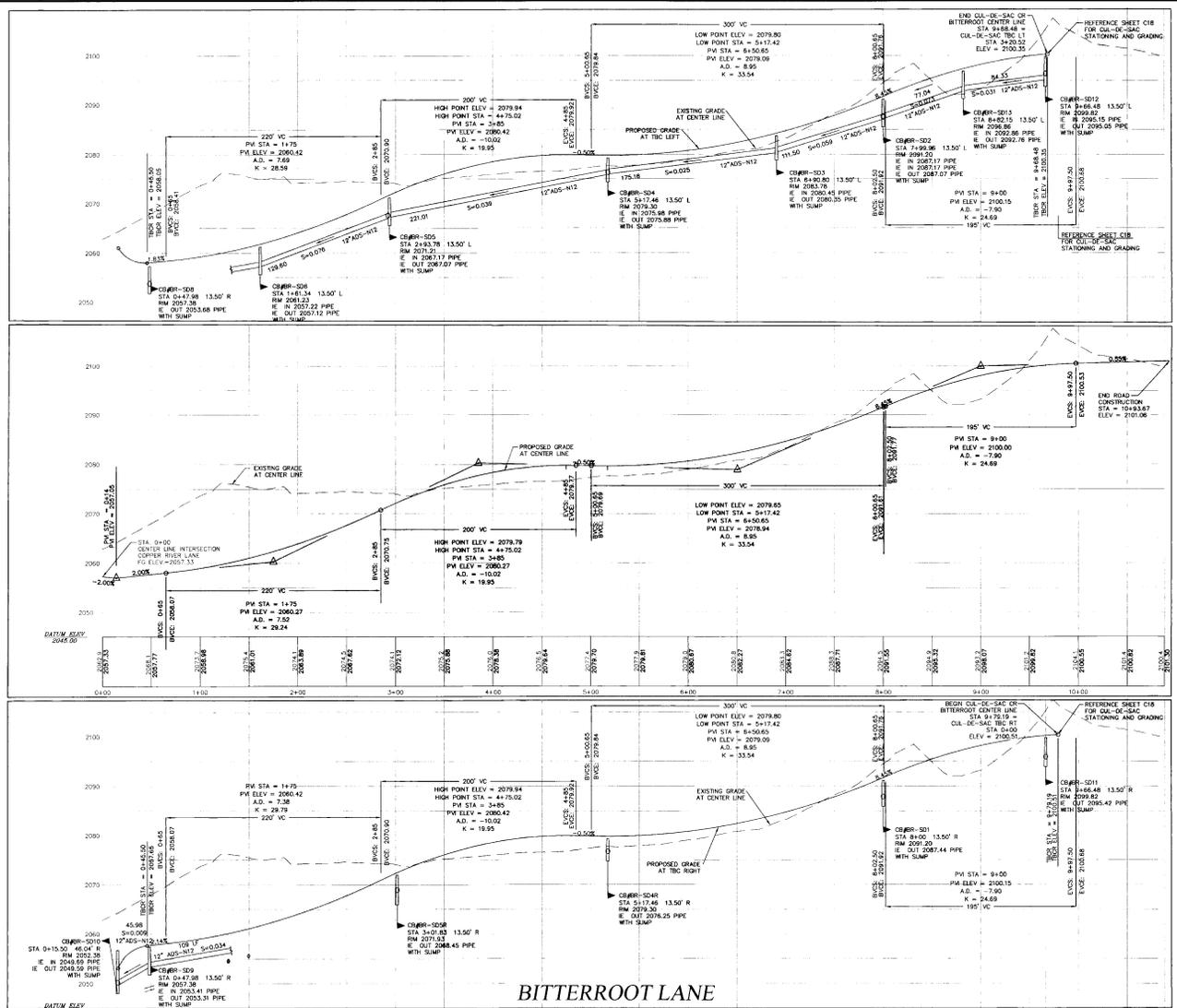
R4555 Eng/Plan/Drawn

Z:\DATA\PROJECTS\2008\17-14-029\17-14-029-01\17-14-029-01.dwg

TBC LEFT
ELEV. IS +0.15'
ABOVE CENTER LINE

CENTER LINE

TBC RIGHT
ELEV. IS +0.15'
ABOVE CENTER LINE



BITTERROOT LANE

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000
CALL TWO BUSINESS DAYS BEFORE YOU DIG

NOTE:
SEE PLAN VIEW FOR STRUCTURE,
RISER AND GRATE TYPE.

Joseph E. Harber
REGISTERED PROFESSIONAL ENGINEER
No. 1277
EXPIRES: 04/05/2008

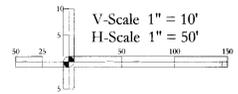


Elk Ridge Heights Phase I
Street and Storm Drainage
Bitterroot Lane STA: 0+00 - END
SPOKANE COUNTY, WA



ELK RIDGE HEIGHTS PHASE I
STREET AND STORM DRAINAGE
BITTERROOT LANE STA: 0+00 - END
SPOKANE COUNTY, WA

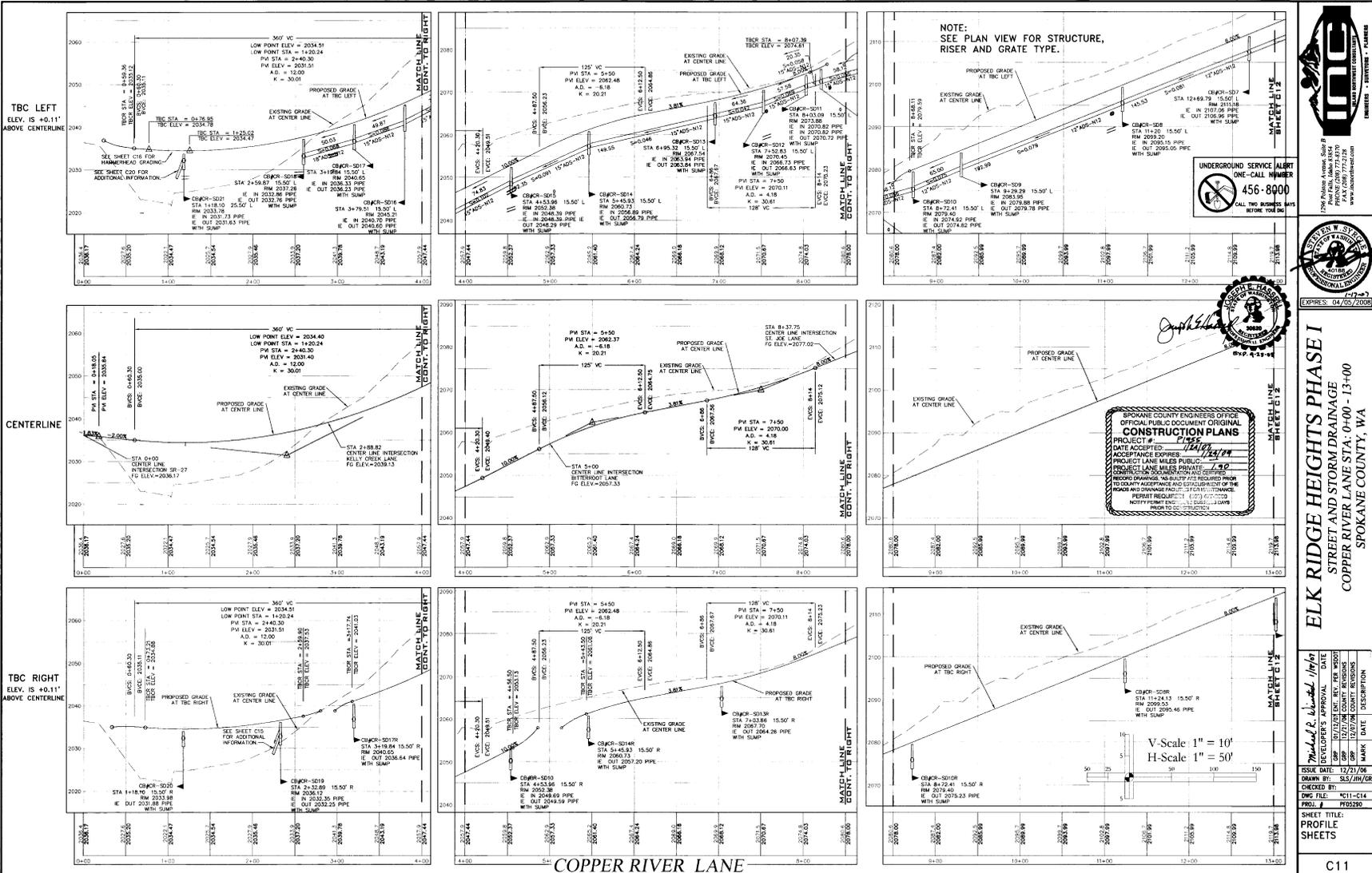
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # 1277
DATE ACCEPTED: 12/15/07
ACCEPTANCE EXP. 12/15/09
PROJECT NAME: MILLS PUBLIC
PROJECT LINE MILES PRIVATE: 7.97
PROJECT LINE MILES PUBLIC: 0.00
PERMIT REQUIRED: (806) 477-3000
NOTIFY PERMITS DIVISION AT 806-477-3000 PRIOR TO CONSTRUCTION



APPROVAL	DATE	DESCRIPTION
Developer's Approval		
City Engineer's Approval		
County Engineer's Approval		
State Engineer's Approval		

ISSUE DATE	DATE	DESCRIPTION
12/15/07		
04/05/08		

P-1955 City Road Drainage



17000 Spokane Falls Blvd.
 2nd Floor, Idaho 83402
 Phone: (509) 477-2722
 Fax: (509) 477-2723
 www.mandearchitects.com



EXPIRES: 04/05/2009

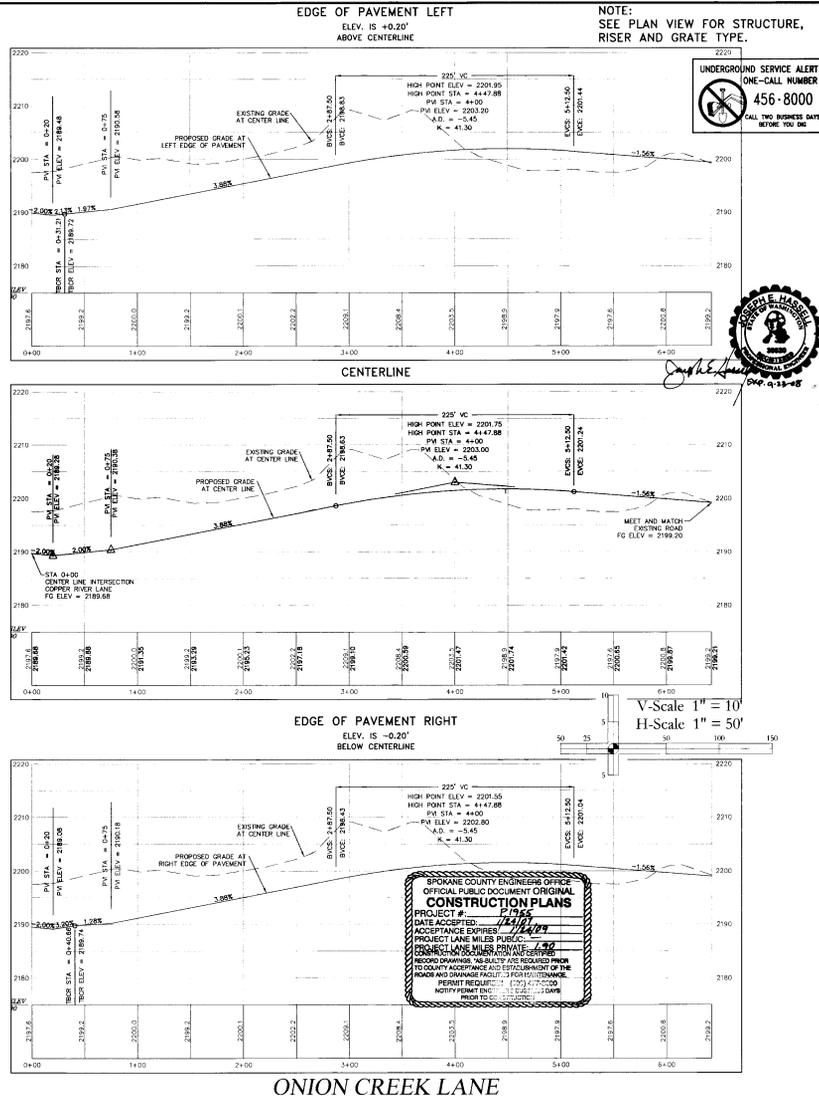
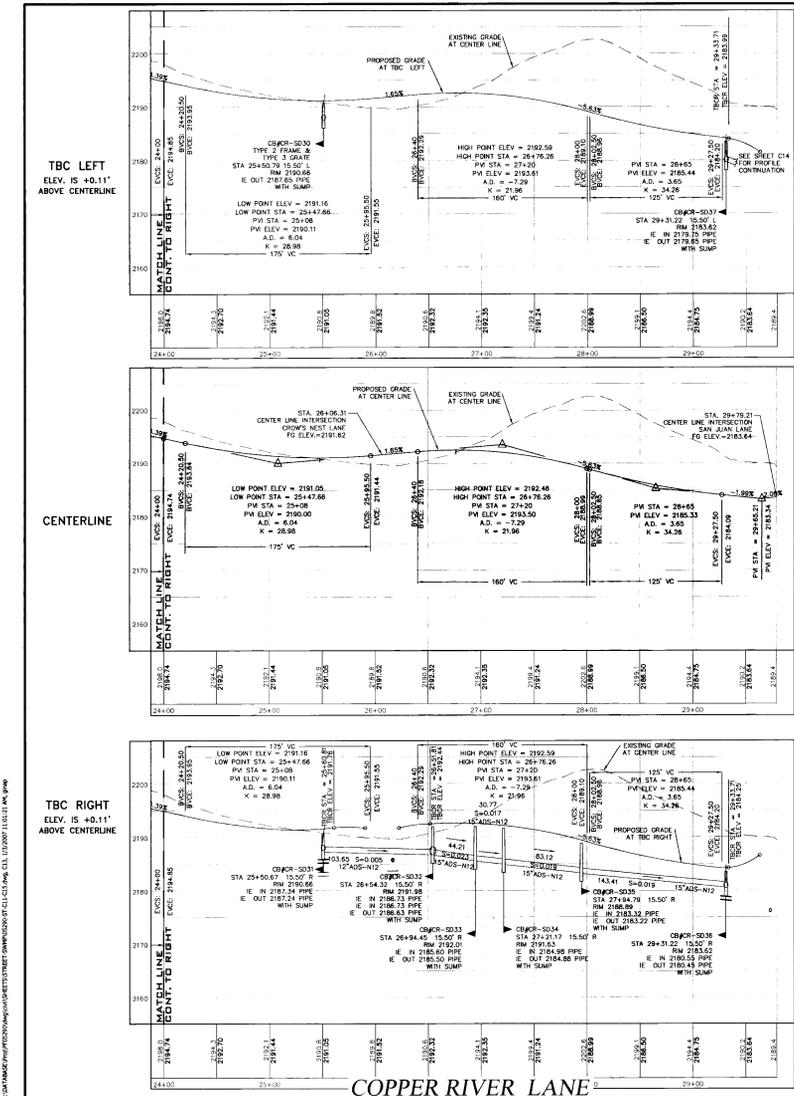
ELK RIDGE HEIGHTS PHASE I
 STREET AND STORM DRAINAGE
 COPPER RIVER LANE STA. 0+00 - 13+00
 SPOKANE COUNTY, WA

Michael R. Woodard	1/10/18		
DEVELOPER'S APPROVAL	DATE		
DATE	DATE	DATE	DATE
12/27/18	12/27/18	12/27/18	12/27/18
DATE	DATE	DATE	DATE
12/27/18	12/27/18	12/27/18	12/27/18
DATE	DATE	DATE	DATE
12/27/18	12/27/18	12/27/18	12/27/18
DATE	DATE	DATE	DATE
12/27/18	12/27/18	12/27/18	12/27/18

ISSUE DATE: 12/27/18
 DRAWN BY: SLS/MLG/GR
 CHECKED BY:
 DWG FILE: NCI-114
 PLOT FILE: PRC0290

SHEET TITLE:
 PROFILE SHEETS

1/19/55 Eng Paul Draining



UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000
CALL TWO BUSINESS DAYS BEFORE YOU DIG

ELK RIDGE HEIGHTS PHASE I
STREET AND STORM DRAINAGE
COPPER RIVER LANE STA: 24+00-END
ONION CREEK LANE 0+00- END
SPOKANE COUNTY, WA

SPokane County
PLANNING & DEVELOPMENT DEPARTMENT
1700 N. WASHINGTON ST.
SPOKANE, WA 99201
PHONE: (509) 325-7329
FAX: (509) 325-7328
WWW.SPOKANEWA.GOV

SPokane County
PLANNING & DEVELOPMENT DEPARTMENT
1700 N. WASHINGTON ST.
SPOKANE, WA 99201
PHONE: (509) 325-7329
FAX: (509) 325-7328
WWW.SPOKANEWA.GOV

SPokane County
PLANNING & DEVELOPMENT DEPARTMENT
1700 N. WASHINGTON ST.
SPOKANE, WA 99201
PHONE: (509) 325-7329
FAX: (509) 325-7328
WWW.SPOKANEWA.GOV

CONSTRUCTION PLANS
DATE ACCEPTED: 11/14/15
ACCEPTANCE ENGINEER: [Signature]
PROJECT NAME: ELK RIDGE HEIGHTS PHASE I
CONTRACT DOCUMENT NUMBER: 7-10
RECORD DRAWING NUMBER: 1517-10-001
TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE RECORD DRAWING FACILITY: 1517-10-001
PERMIT REQUIRED: 1517-10-001
NOTIFY PERMITTING: 1517-10-001
HIGH TO LOW: 1517-10-001

ISSUE DATE: 12/21/15
DRAWN BY: [Signature]
CHECKED BY: [Signature]
DATE: 12/21/15
SHEET TITLE: PROFILE SHEETS

C13

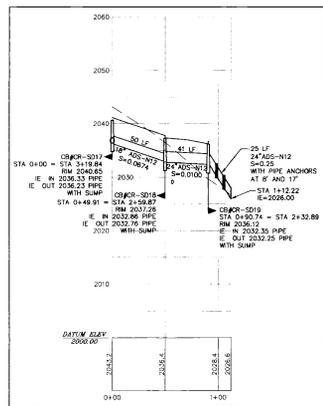
P1955 Eng Prof Drawing

UNDERGROUND SERVICE ALERT
 ONE-CALL NUMBER
456-8000
 CALL TWO BUSINESS DAYS
 BEFORE YOU DIG.

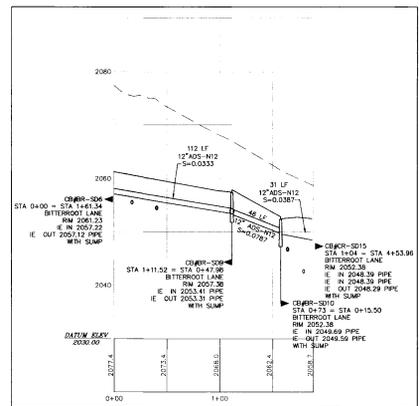


1200 PARKWAY AVENUE, SUITE 200
 SPOKANE, WASHINGTON 99209
 PHONE: (509) 737-2570
 FAX: (509) 772-3238
 www.100years.com

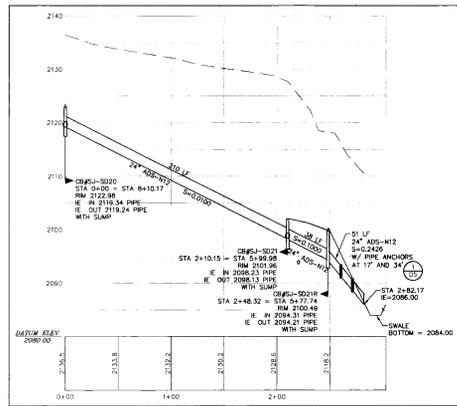
NOTE:
 SEE PLAN VIEW FOR STRUCTURE,
 RISER AND GRATE TYPE.



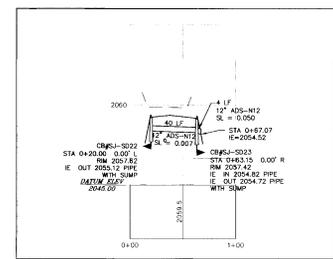
**COPPER RIVER LANE
 STA. 3+19.84 TO DITCH**



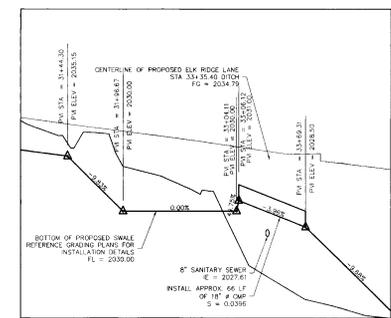
**BITTERROOT LANE AND
 COPPER RIVER LANE INTERSECTION**



**SAN JUAN LANE
 STA. 8+10.17 TO SJ SWALE**



**SAN JUAN LANE AND
 SR-27 INTERSECTION**



**COPPER RIVER LANE AND SR-27
 CULVERT AND DITCH PROFILE**

SPOKANE COUNTY ENGINEERS OFFICIAL
 OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
 PROJECT # 17125
 DATE ACCEPTED 12/21/06
 ACCEPTANCE EXPIRES 12/21/09
 PROJECT LANE MILES PUBLIC 7.92
 PROJECT LANE MILES PRIVATE 7.92
 SPECIAL ORDERING: NO. 000127 (SEE REQUIREMENT #1)
 TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE
 ROAD AND DRAINAGE FACILITIES FOR MAINTENANCE
 PERMIT REQUIREMENT: 1 (20) 477-2000
 NOTIFICATION PERIOD: 15 BUSINESS DAYS
 PRIOR TO DATE 12/21/09

Joseph L. ...
 CIVIL ENGINEER
 EXP. 04/03/2009

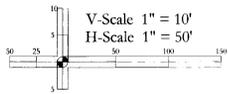
SPokane County
 CIVIL ENGINEER
 EXP. 04/03/2009

**ELK RIDGE HEIGHTS PHASE I
 STREET AND STORM DRAINAGE
 INTERSECTION PROFILE SHEET**
 SPOKANE COUNTY, WA

ISSUE DATE:	12/21/06
DRAWN BY:	SLJ/JIN/06
CHECKED BY:	DMG FILE # K11-C14
PROJ #:	200630
SHEET TITLE:	INTERSECTION PROFILES SHEET

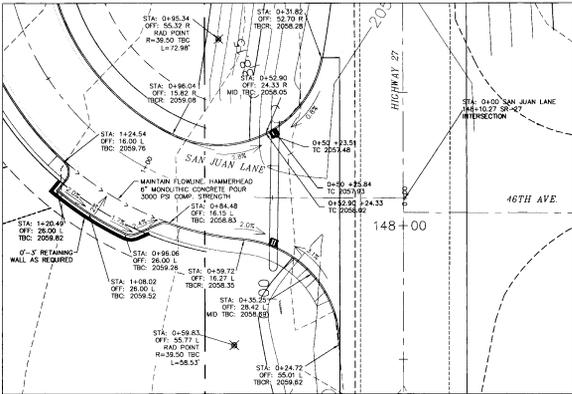
R1955 Enghelmann

2:\s\landmark\proj\200630\200630.dwg\DWG\SET\INTERSECTION PROFILES SHEET.dwg PLOT: C:\C15.dwg, PLOT: 12/21/06 10:51:05 AM, PLOT: 100%

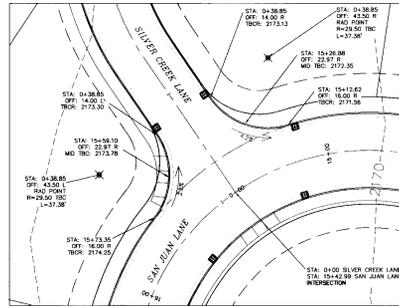


UNDERGROUND SERVICE ALERT
 ONE-CALL NUMBER
456-8000
 CALL TWO BUSINESS DAYS
 BEFORE YOU DIG

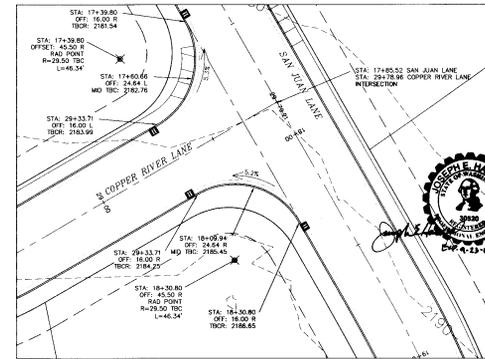
SPokane County Engineers Office
 OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
 PROJECT # **19155**
 DATE ACCEPTED **1/13/2014**
 ACCEPTANCE EXPIRES **1/13/2014**
 PROJECT LANE MILES PRIVATE **7.70**
 RECORD DRAWINGS, NO-SHAFTS ARE REQUIRED PRIOR
 TO QUALITY ACCEPTANCE AND ESTABLISHMENT OF THE
 ROAD AND DRAINAGE FACILITIES FOR MAINTENANCE.
 PERMIT REQUIRED. 100% 477-7000
 NOTIFY PERMIT ENGINEER 7 BUSINESS DAYS
 PRIOR TO CONSTRUCTION



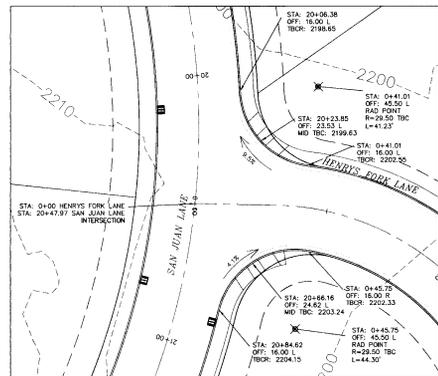
INTERSECTION DRAINAGE DETAIL
 SR-27 AND SAN JUAN LANE



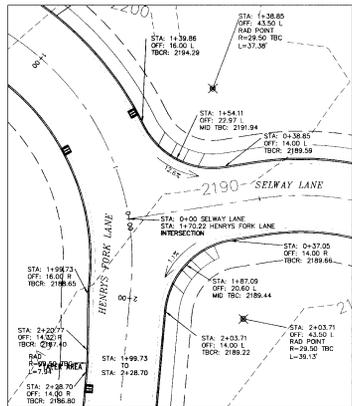
INTERSECTION DRAINAGE DETAIL
 SAN JUAN LANE AND SILVER CREEK LANE



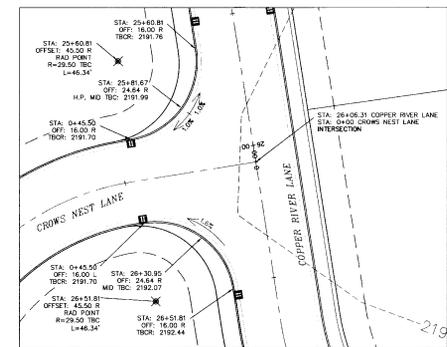
INTERSECTION DRAINAGE DETAIL
 SAN JUAN LANE AND COPPER RIVER LANE



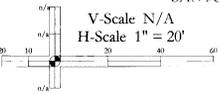
INTERSECTION DRAINAGE DETAIL
 SAN JUAN LANE AND HENRY'S FORK LANE



INTERSECTION DRAINAGE DETAIL
 HENRY'S FORK LANE AND SELWAY LANE



INTERSECTION DRAINAGE DETAIL
 COPPER RIVER LANE AND CROWS NEST LANE



1200 W. Adams Avenue, Suite 10
 Post Falls, Idaho 83854
 P: (208) 772-1238
 www.elkridgeheights.com



EXPIRES: 04/05/2008

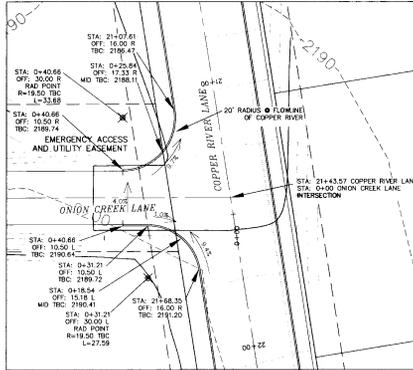
ELK RIDGE HEIGHTS PHASE I
 STREET AND STORM DRAINAGE STREET
 INTERSECTION (BLOW-UP) DETAILS
 SPOKANE COUNTY, WA

Prepared by: <i>Joseph E. Hamber</i>	DATE: 12/15/08
Checked by: <i>SLS, JH</i>	DATE: 1/13/09
Drawn by: <i>SLS, JH</i>	DATE: 1/13/09
Scale: 1/2\"/>	
Project: 19155	Sheet: 1 of 1
Mark: 1	Date: 1/13/09

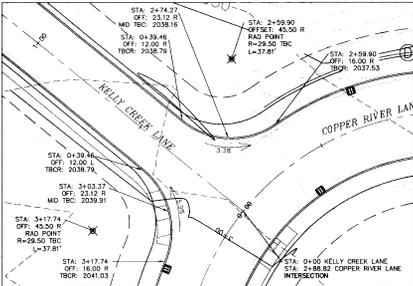
ISSUE DATE: 12/15/08
 DRAWN BY: SLS, JH
 CHECKED BY:
 DWS FILE: C16-C20
 PROJ. # 19155
 SHEET TITLE:
 PLAN SHEETS

P1955 England Drainage

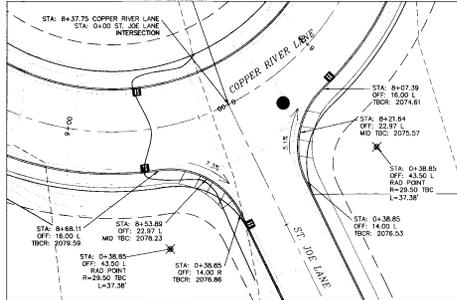
UNDERGROUND SERVICE ALERT
 ONE-CALL NUMBER
456-8000
 CALL TWO BUSINESS DAYS
 BEFORE YOU DIG



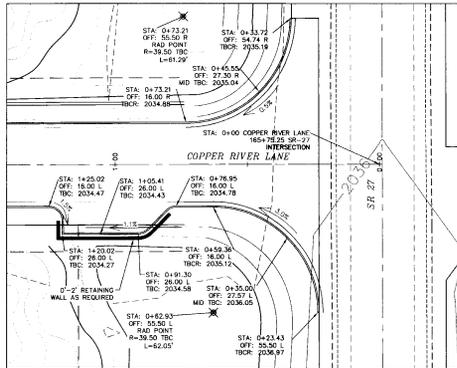
INTERSECTION DRAINAGE DETAIL
 COPPER RIVER LANE AND ONION CREEK LANE



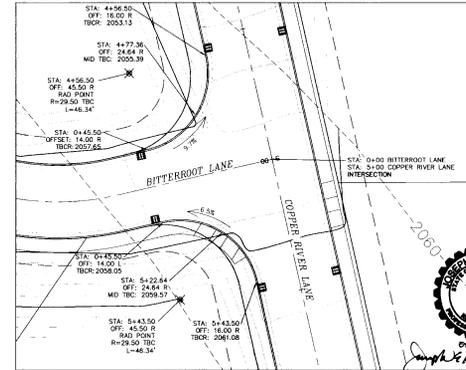
INTERSECTION DRAINAGE DETAIL
 COPPER RIVER LANE AND KELLY CREEK LANE



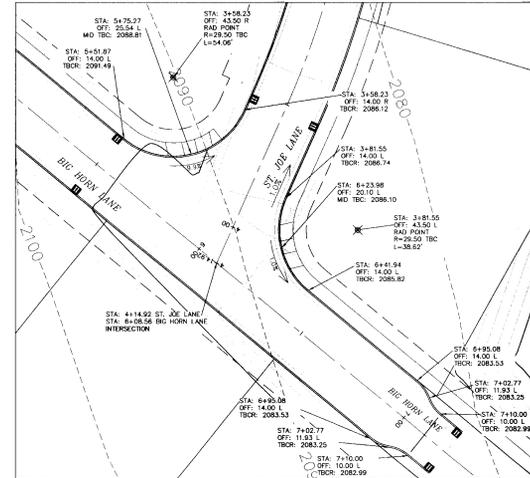
INTERSECTION DRAINAGE DETAIL
 COPPER RIVER LANE AND ST. JOE LANE



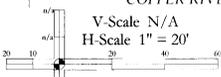
INTERSECTION DRAINAGE DETAIL
 COPPER RIVER LANE AND SR-27



INTERSECTION DRAINAGE DETAIL
 COPPER RIVER LANE AND BITTERROOT LANE



INTERSECTION DRAINAGE DETAIL
 ST. JOE LANE AND BIG HORN LANE



SPOKANE COUNTY ENGINEERS OFFICE
 OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
 PROJECT # 17199
 DATE ACCEPTED 7/24/21
 ACCEPTANCE EXPRESSES 1/24/21
 PROJECT LANE MILLER PRIVATE 92
 PROJECT LANE MILLER PRIVATE 92
 RECORD DRAWINGS: NO WARRANTY IS REQUIRED PRIOR TO COUNTY ACCEPTANCE AND INSTALLMENT OF THE ROAD AND DRAINAGE FACILITIES FOR MAINTENANCE. PERMIT REQUIRED! (DSG 477-2000)
 NOTIFY PERMIT FROM 8:00 AM TO 5:00 PM DAILY PRIOR TO CONSTRUCTION.



DATE: 04/05/2008

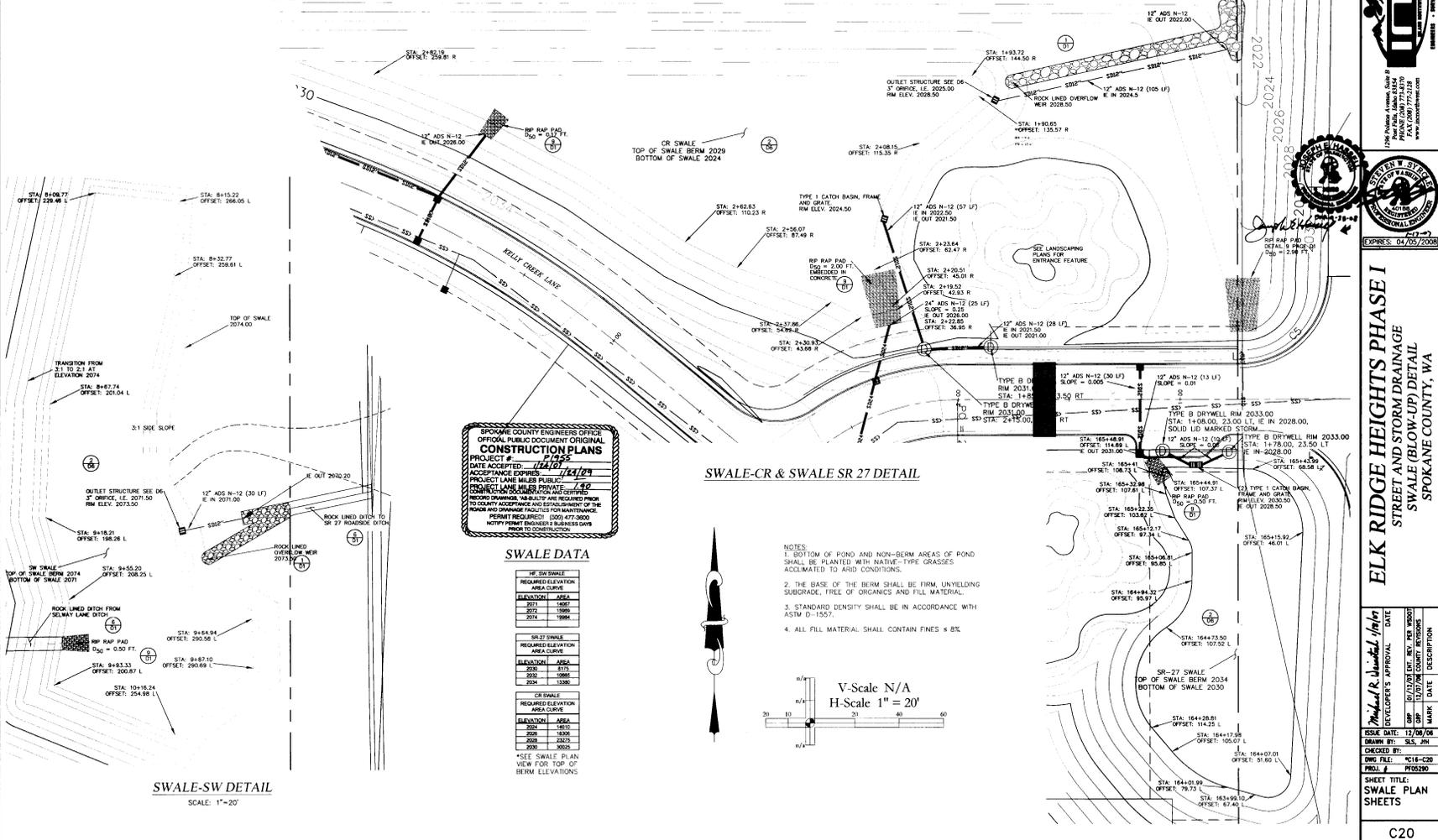
ELK RIDGE HEIGHTS PHASE I
 STREET AND STORM DRAINAGE STREET
 INTERSECTION (BLow-UP) DETAILS
 SPOKANE COUNTY, WA

NO.	DATE	DESCRIPTION
1	12/06/06	ISSUE DATE
2	01/24/07	CONTRACTOR'S APPROVAL
3	01/24/07	DATE ACCEPTED
4	01/24/07	DATE ACCEPTED
5	01/24/07	DATE ACCEPTED
6	01/24/07	DATE ACCEPTED
7	01/24/07	DATE ACCEPTED
8	01/24/07	DATE ACCEPTED
9	01/24/07	DATE ACCEPTED
10	01/24/07	DATE ACCEPTED
11	01/24/07	DATE ACCEPTED
12	01/24/07	DATE ACCEPTED
13	01/24/07	DATE ACCEPTED
14	01/24/07	DATE ACCEPTED
15	01/24/07	DATE ACCEPTED
16	01/24/07	DATE ACCEPTED
17	01/24/07	DATE ACCEPTED
18	01/24/07	DATE ACCEPTED
19	01/24/07	DATE ACCEPTED
20	01/24/07	DATE ACCEPTED

P1955 Eng'g Plan Drawing

UNDERGROUND SERVICE ALERT
 ONE-CALL NUMBER
456-8000
 CALL TWO BUSINESS DAYS BEFORE YOU DIG.

—2020



SPOKANE COUNTY ENGINEERS OFFICE
 OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
 PROJECT # 19155
 DATE ACQUIRED 1/14/24
 ACCEPTANCE EXPIRES 1/14/29
 PROJECT LAINE MILLER PUBLIC
 (CHECKED) LAINE MILLER PRIVATE #12
 RECORD DRAWING. NO-SUBMITTALS ARE REQUIRED PRIOR TO OBTAINING ACCEPTANCE AND INSTALLATION OF THE ROAD AND DRAINAGE FACILITIES FOR MAINTENANCE. PERMIT REQUIRED. 100% 477-3000. NOTIFY PERMIT ENGINEER'S BUSINESS DAYS PRIOR TO CONSTRUCTION.

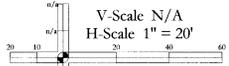
SWALE DATA

SR-27 SWALE	
REQUIRED ELEVATION AREA CURVE	AREA CURVE
ELEVATION	AREA
2074	1992
2072	1999
2074	1994

SR-27 SWALE	
REQUIRED ELEVATION AREA CURVE	AREA CURVE
ELEVATION	AREA
2024	1935
2024	1984
2024	1994

CR SWALE	
REQUIRED ELEVATION AREA CURVE	AREA CURVE
ELEVATION	AREA
2024	1810
2024	1824
2024	2027.5
2024	2024

*SEE SWALE PLAN VIEW FOR TOP OF BERM ELEVATIONS



- NOTES:
 1. BOTTOM OF POND AND NON-BERM AREAS OF POND SHALL BE PLANTED WITH NATIVE-TYPE GRASSES ACCUMULATED TO AND CONDITIONS.
 2. THE BASE OF THE BERM SHALL BE FIRM, UNWEYLING SUBGRADE, FREE OF ORGANICS AND FILL MATERIAL.
 3. STANDARD DENSITY SHALL BE IN ACCORDANCE WITH ASTM D-1557.
 4. ALL FILL MATERIAL SHALL CONTAIN FINES $\leq 6\%$

REGISTERED PROFESSIONAL ENGINEER
WALTER W. SIEGEL
 LICENSE NO. 19155
 EXPIRES: 04/05/2028

ELK RIDGE HEIGHTS PHASE I
SWALE AND STORM DRAINAGE
SWALE (BLOW-UP) DETAIL
 SPOKANE COUNTY, WA

Project: 19155 / 19155
 DATE: _____
 APPROVAL: _____
 DATE: _____

ISSUE DATE: 17/08/24
 DRAWN BY: SLS, JHN
 CHECKED BY: _____
 DWG FILE: N14-C28
 PROJ #: P192390
 SHEET TITLE: SWALE PLAN SHEETS

P19155 Eng And Draining

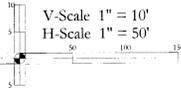
UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000
 CALL TWO BUSINESS DAYS
 BEFORE YOU DIG

SIGNAGE LEGEND

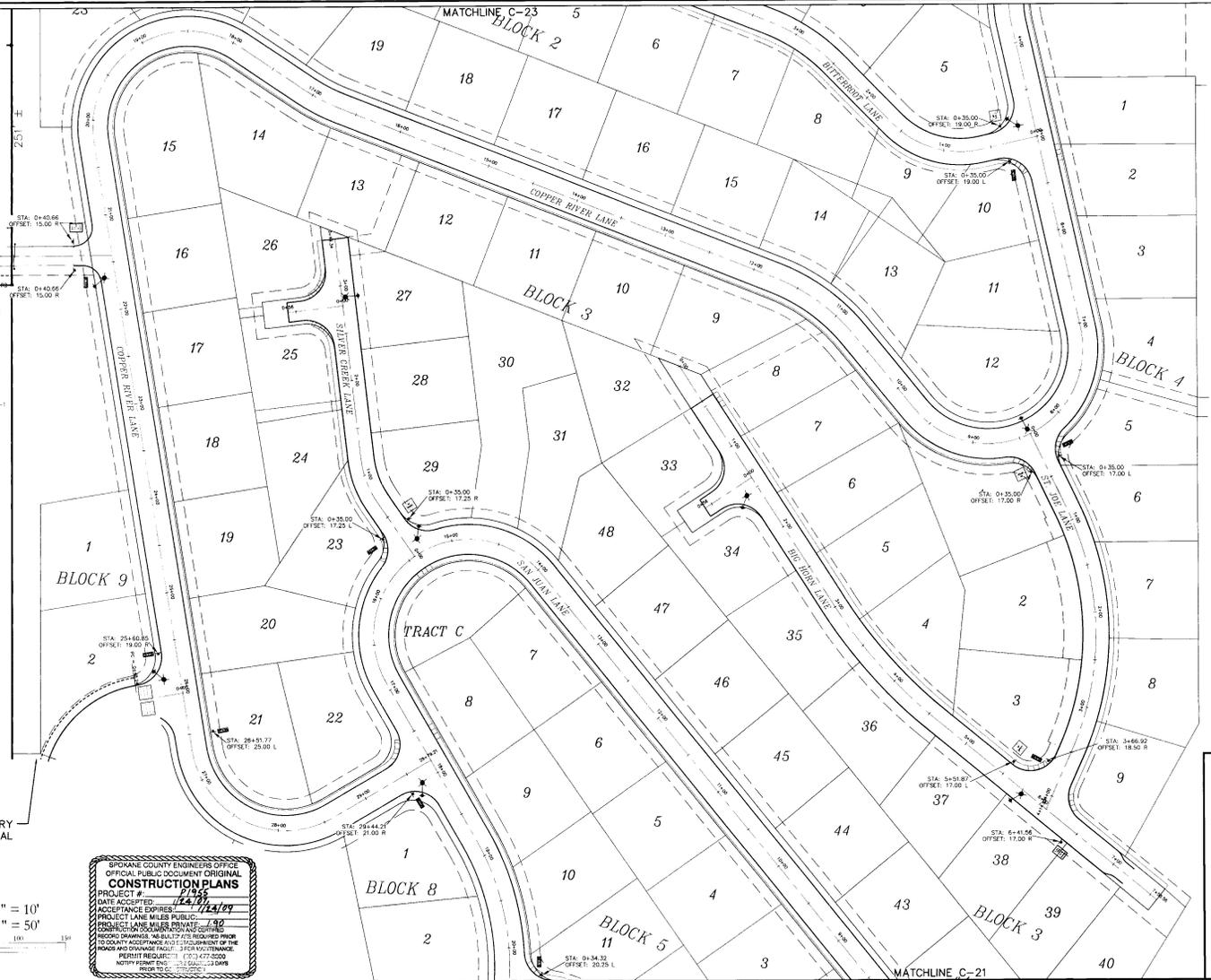
- STOP SIGN R1-1
- STREET NAME SIGN D-3-1
- (1) STOP SIGN R1-1
(2) STREET NAME SIGN D-3-1
- NO. OUTLET SIGN W14-2
- SPEED LIMIT SIGN R2-1
- PRIVATE ROAD SIGN
- TYPE II BARRICADE



PHASE 1 BOUNDARY
 LINE, TYPICAL



SPOKANE COUNTY ENGINEERS OFFICE
 OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
 PROJECT # 21955
 DATE ACCEPTED 1/24/20
 ACCEPTANCE EXPIRES 1/24/29
 PROJECT LANE MILES PUBLIC 0.00
 PROJECT LANE MILES PRIVATE 0.00
 RECORD CHANGES: ALL BUILDINGS REQUIRED PRIOR
 TO QUALITY ACCEPTANCE. NOTE: ENCLOSURE OF THE
 ROADS AND DIVISIONS FACILITY. 3) FOR VZ DISTANCE
 PERMIT REQUIRED: (C) 177-5000
 NOTIFY PLUMBERS: (C) 177-5000
 (S) 177-5000
 (S) 177-5000
 (S) 177-5000



ELK RIDGE HEIGHTS PHASE I
STREET SIGNAGE PLAN
 SPOKANE COUNTY, WA

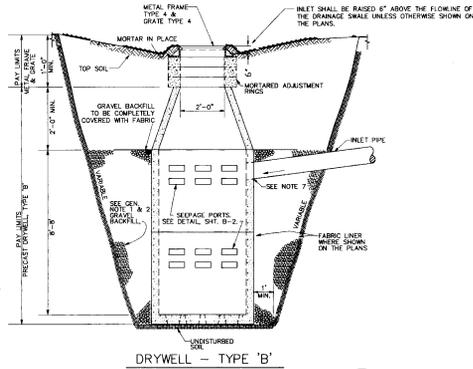
ISSUE	DATE	DESCRIPTION
1	12/08/08	ISSUE
2	01/27/09	ISSUE
3	01/27/09	ISSUE
4	01/27/09	ISSUE
5	01/27/09	ISSUE
6	01/27/09	ISSUE
7	01/27/09	ISSUE
8	01/27/09	ISSUE
9	01/27/09	ISSUE
10	01/27/09	ISSUE
11	01/27/09	ISSUE
12	01/27/09	ISSUE
13	01/27/09	ISSUE
14	01/27/09	ISSUE
15	01/27/09	ISSUE
16	01/27/09	ISSUE
17	01/27/09	ISSUE
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41	01/27/09	ISSUE
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44	01/27/09	ISSUE
45	01/27/09	ISSUE
46	01/27/09	ISSUE
47	01/27/09	ISSUE
48	01/27/09	ISSUE
49	01/27/09	ISSUE
50	01/27/09	ISSUE

ISSUE DATE: 12/08/08
 DRAWN BY: DPH
 CHECKED BY:
 DWG FILE: *21-C23
 PROJ. # : F05290
 SHEET TITLE:
 SIGNAGE SHEETS
 C22

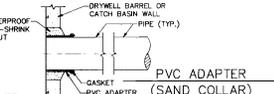
P-1955 Englad Drainage

GENERAL NOTES

- GRAVEL BACKFILL QUANTITY FOR DRYWELLS:
TYPE "A" = 30 CUBIC YARDS MINIMUM / 42 TONS
TYPE "B" = 20 CUBIC YARDS MINIMUM / 28 TONS
OR AS SPECIFIED ON ROAD PLANS.
- SPECIAL BACKFILL MATERIAL FOR DRYWELLS SHALL CONSIST OF WASHED GRAVEL GRADED FROM 1" TO 3" WITH A MAXIMUM OF 2% PASSING THE U.S. NO. 200 SCREEN, AS MEASURED BY WEIGHT. A MAXIMUM OF 10% OF THE AGGREGATE, AS MEASURED BY WEIGHT, MAY BE CRUSHED OR FRACTURED ROCK. THE REMAINING 90% SHALL BE NATURALLY OCCURRING UNFRACTURED MATERIAL.
- CONCRETE SLAB SHALL BE CLASS 3000 CONCRETE.
- USE STANDARD PLANS SHEETS B-2 AND B-3 FOR PRECAST CONCRETE DETAILS.
- ADJUSTMENT BLOCKS SHALL BE CEMENT CONCRETE.
- PRECAST REEFER MAY BE USED IN COMBINATION WITH OR IN LIEU OF ADJUSTING BLOCKS.
- WHEN PVC PIPE IS USED A PVC ADAPTER SHALL BE INSTALLED.
- PIPES SHALL BE GROUNDED INTO DRYWELLS.



DRYWELL - TYPE "B"



NOTE:
PVC PIPE ADAPTERS AND GASKET MAY VARY IN SHAPE AND SIZE AS ILLUSTRATED IN DETAIL BY ACCEPTABLE MANUFACTURERS IN ACCORDANCE WITH A.S.T.M. C-428.

TYPE "B" DRYWELL IN SWALE STANDARD PLAN B-1a
NOT TO SCALE

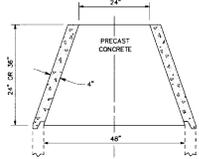


UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000
CALL NOW BEFORE YOU DIG
BEFORE YOU START

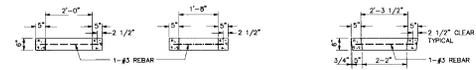


GENERAL NOTES

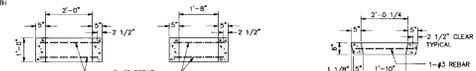
- CONCRETE ITEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C 478 (AASHTO M 193) & ASTM C 890 UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE PROJECT SPECIAL PROVISIONS.



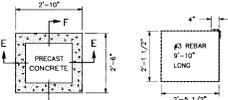
CONCENTRIC CONE



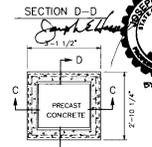
SECTION E-E SECTION F-F SECTION G-G



SECTION E-E SECTION F-F



SECTION E-E BENDING



SECTION D-D

RISER, TYPE 1

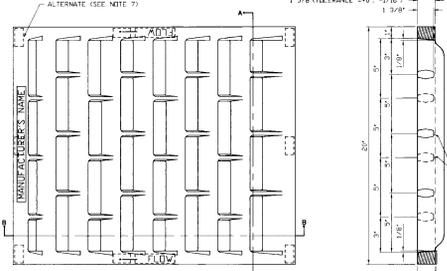
RISER, TYPE 2

PRECAST DRYWELL & INLET DETAILS STANDARD PLAN B-3

NOT TO SCALE

GENERAL NOTES

- THE NAME OF THE MANUFACTURER AND THE DIRECTION OF FLOW SHALL BE EMBOSSED ON THE TOP SURFACE OF EACH GRATE. LETTERING TO BE RECESSED 1/16".
- FRAME SHALL BE GRAY IRON CONFORMING TO A.S.T.M. A48-80, GRADE 30. THE GRATE SHALL BE DUCTILE IRON CONFORMING TO A.S.T.M. A536-84 GRADE 80-55-06.
- DIMENSIONS SHALL HAVE ±1/16" TOLERANCE, EXCEPT AS NOTED.
- EDGES SHALL HAVE 1/8" RADIUS, 1/8" CHAMFER OR COMPLETE DEBURRING.
- THE FRAME SHALL BE MANUFACTURED IN ACCORDANCE WITH STANDARD PLAN B-11.
- WELDING IS NOT PERMITTED.



TOP VIEW

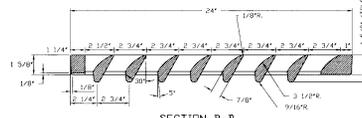
APPROXIMATE WEIGHT=110 LBS.

SECTION A-A

GENERAL NOTES

- THE NAME OF THE MANUFACTURER AND DIRECTION OF FLOW SHALL BE EMBOSSED ON THE TOP SURFACE OF EACH GRATE. LETTERING TO BE RECESSED 1/16".
- FRAME SHALL BE GRAY IRON CONFORMING TO A.S.T.M. A48-80, GRADE 30. THE GRATE SHALL BE DUCTILE IRON CONFORMING TO A.S.T.M. A536-84 GRADE 80-55-06.
- DIMENSIONS SHALL HAVE ±1/16" TOLERANCE, EXCEPT AS NOTED.
- EDGES SHALL HAVE 1/8" RADIUS, 1/8" CHAMFER OR COMPLETE DEBURRING.
- THE FRAME SHALL BE MANUFACTURED IN ACCORDANCE WITH STANDARD PLAN B-11.
- WELDING IS NOT PERMITTED.
- AS AN ALTERNATE, 8 PADS 1 1/2" X 3/4" X 1/8", INTERNALLY CAST WITH THE GRATE, MAY BE USED.

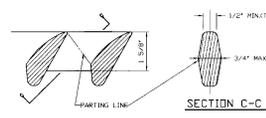
SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # 17178
DATE ACCEPTED 12/18/06
ACCEPTANCE EXPIRES 12/18/07
PROJECT NAME ELK RIDGE PHASE I
PROJECT LOCATION 10000 N. 100TH AVE. SPOKANE, WA
PROJECT PERMITS 10000 N. 100TH AVE. SPOKANE, WA
TO COUNTY ACCEPTANCE AND PERMITMENT OF THE ROAD AND DRAINAGE FACILITIES FOR INSTALLATION
PERMIT REQUIREMENTS (509) 477-3900
NOTIFY PERMIT ENGINEER 1-3 BUSINESS DAYS PRIOR TO CONSTRUCTION



SECTION B-B

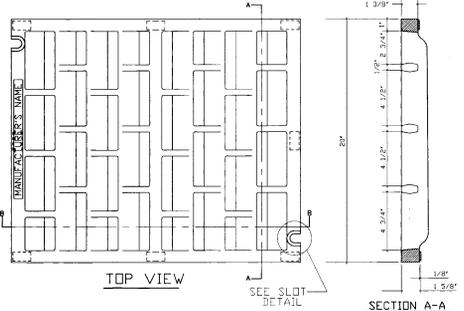
METAL GRATE TYPE 1 STANDARD PLAN B-12

NOT TO SCALE



SECTION C-C

VANE DETAIL



TOP VIEW

SECTION B-B

SECTION A-A

VANE DETAIL

BOLT-DOWN DETAIL

METAL GRATE TYPE 3 STANDARD PLAN B-14

NOT TO SCALE



ELK RIDGE HEIGHTS PHASE I
STREET AND STORM DRAINAGE
STANDARD CONSTRUCTION DETAILS
SPOKANE COUNTY, WA

DESIGNER'S APPROVAL	DATE
12/18/06	12/18/06
DRAWN BY: SLS, JH	
CHECKED BY:	
801-55	
PROJ. #	
100290	
SHEET TITLE:	
STANDARD CONSTRUCTION DETAIL SHEET	
D3	

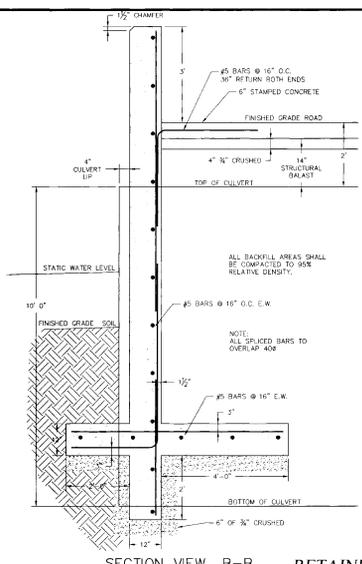
P1955 Eng. Brad Drainage

UNDERGROUND SERVICE ALERT
 ONE-CALL NUMBER
 456-8000
 CALL TWO NUMBERS FIRST
 BEFORE YOU DIG

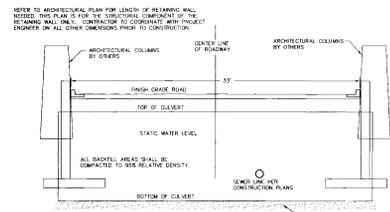


ELK RIDGE HEIGHTS PHASE I
STREET AND STORM DRAINAGE
STANDARD CONSTRUCTION DETAILS
 SPOKANE COUNTY, WA

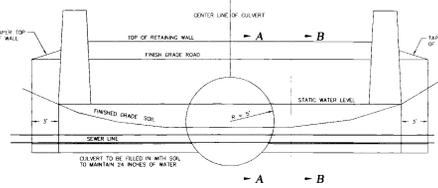
DESIGNED BY	DATE
REVISED BY	DATE
ISSUE DATE	12/08/08
DRAWN BY	SLS, JH
CHECKED BY	JH
DATE	8/13/09
PROJECT #	PT0290
STANDARD TITLE	CONSTRUCTION DETAIL SHEET
DWG. FILE	MD-05
MARK	DATE
DESCRIPTION	



SECTION VIEW B-B

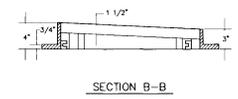


SECTION VIEW A-A

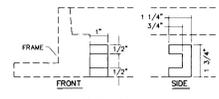


SECTION VIEW A-A

RETAINING WALL DETAIL



SECTION B-B



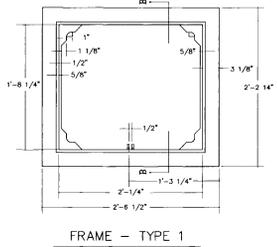
SLOT DETAIL



TANG DETAIL

GENERAL NOTES

- FRAME SHALL BE GRAY IRON CONFORMING TO A.S.T.M. A48-80, GRADE 30, THE GRADE SHALL BE DUCTILE IRON CONFORMING TO A.S.T.M. A536-94, GRADE 80-55-06.
- USE WITH CATCH BASIN AND CONCRETE INLET TYPE 1, SEE STD. PLAN SHEETS B-4.5 & 7.
- FIT TOLERANCE SHALL BE 1/8\".
- WELDING IS NOT PERMITTED.
- GRATE GUARD REQUIRED, SEE SHEET B-17.
- FOR GRATE DETAIL SEE STD. PLAN SHEET B-12.



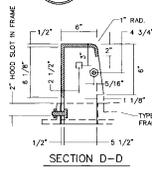
FRAME - TYPE 1

METAL FRAME TYPE 1 STANDARD PLAN B-10

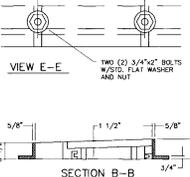
NOT TO SCALE

GENERAL NOTES

- FRAME SHALL BE GRAY IRON CONFORMING TO A.S.T.M. A48-80, GRADE 30, THE GRADE SHALL BE DUCTILE IRON CONFORMING TO A.S.T.M. A536-94, GRADE 80-55-06.
- BOLTS AND NUTS SHALL CONFORM TO A.S.T.M. DESIGNATION A307, GRADE A.
- USE WITH CATCH BASIN AND CONCRETE INLET TYPE 1, SEE STD. PLAN SHEETS B-4.5 & 7.
- FIT TOLERANCE SHALL BE 1/8\".
- FOR GRATE DETAILS SEE STD. PLAN SHEET B-13 OR B-14.
- GRATE GUARD REQUIRED, SEE SHEET B-17.

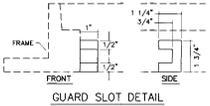


SECTION D-D

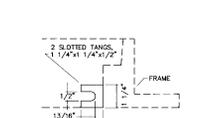


VIEW E-E

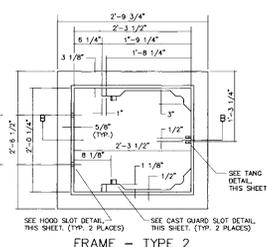
SECTION B-B



GUARD SLOT DETAIL



TANG DETAIL



FRAME - TYPE 2

HOOD

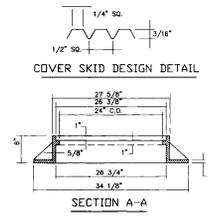
METAL FRAME, TYPE 2 STANDARD PLAN B-11

NOT TO SCALE

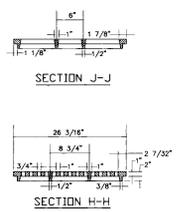
SPOKANE COUNTY ENGINEERS OFFICE
 OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
 PROJECT # 12345
 DATE ACCEPTED 7/14/08
 ACCEPTANCE EXPIRES 7/14/10
 PROJECT LANE MILES PUBLIC 1.00
 PROJECT LANE MILES PRIVATE 1.00
 CONSTRUCTION AND/OR MAINTENANCE 1.00
 ROAD DRAWINGS SHALL BE REVIEWED FROM
 HOODS AND DRAINAGE FACILITIES MAINTENANCE
 PERMIT REQUIRED: 1234567890
 NOTIFY PERMIT ENG.: 1234567890
 800-733-3333

GENERAL NOTES

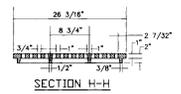
- FRAME SHALL BE GRAY IRON CONFORMING TO A.S.T.M. A48-80, GRADE 30, THE GRADE SHALL BE DUCTILE IRON CONFORMING TO A.S.T.M. A536-94, GRADE 80-55-06.
- METAL FRAME AND GRATE TYPE 4 SHALL ONLY BE USED WHERE SHOWN ON THE CONSTRUCTION PLANS. IT SHALL NOT BE USED AT A CURB LINE.
- DRAINAGE SLOTS SHALL BE PLACED PARALLEL TO THE DIRECTION OF FLOW.
- FIT TOLERANCE SHALL BE 1/8\".
- WELDING IS NOT PERMITTED.



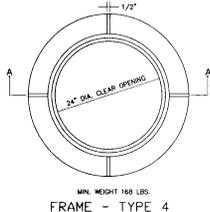
COVER SKID DESIGN DETAIL



SECTION J-J



SECTION H-H



FRAME - TYPE 4

METAL FRAME, & GRATE - TYPE 4 STANDARD PLAN B-15

NOT TO SCALE

GRATE - TYPE 4

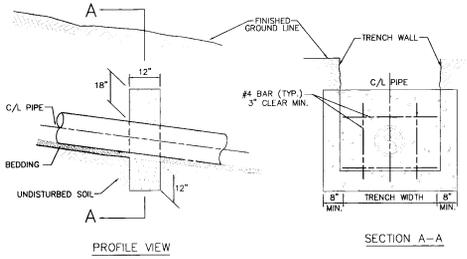
2

5

Z:\DWG\2007\PROJ\SPokane\CONSTRUCTION\STREET IMPROVEMENTS\DESIGN\DWG - EXCL - U2007-0306-01.dwg

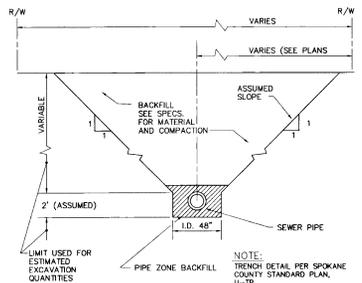
P-1955 *Embold Drainage*

1. CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,000 P.S.I.
2. REINFORCEMENT BARS SHALL BE GRADE 40.
3. ANCHORS TO BE INSTALLED AT THE LOCATIONS AS SHOWN ON SHEET C-11.



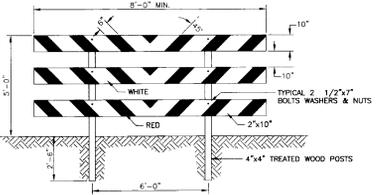
ANCHOR BLOCK PIPE SUPPORT
NOT TO SCALE

1



TYPICAL TRENCH DETAIL
NOT TO SCALE

3

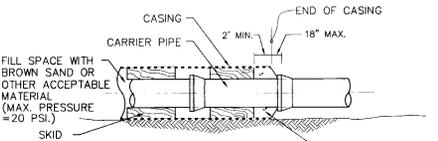


1. THE ABOVE SHALL BE FURNISHED BY THE DEVELOPER AT HIS EXPENSE.
2. BARRICADES SHALL BE TYPE III.
3. MARKINGS FOR BARRICADE BAILS SHALL BE RED AND WHITE STRIPES (SLOPING DOWNWARD AT AN ANGLE OF 45° IN THE DIRECTION TRAFFIC IS TO PASS).
4. WHERE A BARRICADE EXTENDS ENTIRELY ACROSS A ROADWAY, IT IS DESIRABLE THAT THE STRIPES SLOPE DOWNWARD IN THE DIRECTION WHICH TRAFFIC MUST TURN IN DETOURING, WHERE BOTH RIGHT AND LEFT TURNS ARE PROVIDED FOR THE CHURN STRIPING MAY SLOPE DOWNWARD IN BOTH DIRECTIONS FROM THE CENTER OF THE BARRICADE.
5. THE ENTIRE AREA OF RED AND WHITE STRIPES SHALL BE RELOCATED SO AS TO BE VISIBLE UNDER NORMAL ATMOSPHERIC CONDITIONS FROM A MINIMUM DISTANCE OF 1,000 FEET WHEN ILLUMINATED BY THE LOW BEAMS OF STANDARD AUTOMOBILE HEADLIGHTS.
6. FREE STANDING BARRICADES SHALL BE BUILT SIMILAR, BUT 4"x4" POSTS SHALL BE 5'-0" LONG AND SHALL HAVE 2"x6"x4"-7" LONG SUPPORTS SET 90° TO CENTERED ON THE POST FOR SUPPORT AND ATTACHED WITH 2"-10"x7" BOLTS WITH WASHERS AND NUTS.
7. ALL SURFACES SHALL BE PAINTED WITH A MINIMUM OF TWO COATS OF WHITE OIL PAINT.

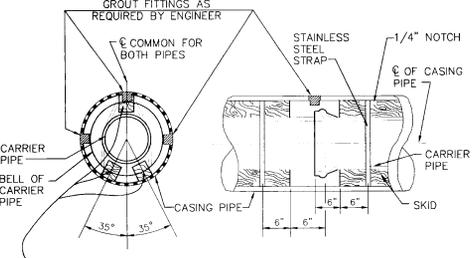
TERMINUS BARRICADES
NOT TO SCALE

4

SPokane County Engineers Office
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # 17155
DATE ACCEPTED 1/25/24
ACCEPTANCE EXPIRES 1/25/26
PROJECT LINE MILES PUBLIC 1.42
PROJECT LINE MILES PRIVATE 1.52
RECORD DRAWINGS: 148 BUILTS ARE REQUIRED PRIOR TO CANCEL ACCEPTANCE AND EXPIRE ON THE RECORD DRAWING DATE.
PERMIT REQUIRED: (C) 3
FROM TO CONTINUE: 3

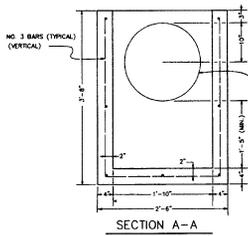
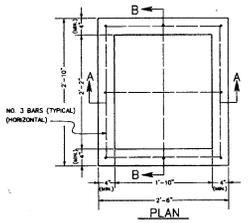


PIPE SEAL DETAIL
N.T.S.



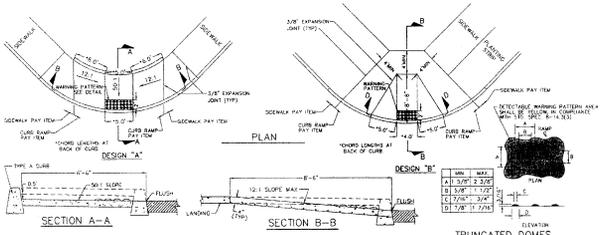
TYPICAL PIPE CASING DETAIL
NOT TO SCALE

2



TYPE "1" CATCH BASIN - STANDARD PLAN B-4
NOT TO SCALE

6



TRUNCATED DOMES
EXCEPT WHERE SHOWN OTHERWISE (SEE NOTE 2)

1. DRAWING DETAILS SHALL BE OUTSIDE THE CURB RAMP.
2. DETECTABLE WARNING PAVING MAY BE CREATED BY 4"x4" DIMENSIONS AND SPACING SHOWN.
3. CURB RAMP DESIGN OR TYPE SHALL BE OFFERED IN THE CONTRACT PLANS OR SPECIAL PROVISIONS.
4. CURB RAMP DESIGN OR TYPE SHALL BE OFFERED IN THE CONTRACT PLANS OR SPECIAL PROVISIONS.
5. DETECTABLE WARNING PAVING MAY BE CREATED BY 4"x4" DIMENSIONS AND SPACING SHOWN.
6. NUMBER OF CURB RAMP SPACERS SHALL BE AS SHOWN.
7. TOP OF CURB ELEVATION SHOWN ON PLANS ARE PROJECTED TO SQUARE RAMP FACE FROM CURB RAMP FACE.
8. TOP OF CURB SHALL BE AT BACK OF RAMP, UNLESS OTHERWISE SHOWN ON PLAN. SEE NOTE TO ROAD PLAN TO L.

TYPICAL PEDESTRIAN RAMP
NOT TO SCALE

7

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
456-8000
CALL TWO BUSINESS DAYS BEFORE YOU DIG



ELK RIDGE HEIGHTS PHASE I
STREET AND STORM DRAINAGE
STANDARD CONSTRUCTION DETAILS
SPOKANE COUNTY, WA

DESIGNED BY: <i>J. J. J. J.</i>	DATE: 12/15/24
CHECKED BY: <i>J. J. J. J.</i>	DATE: 12/15/24
PROJECT #	17155
PROJECT LINE MILES PUBLIC	1.42
PROJECT LINE MILES PRIVATE	1.52
RECORD DRAWINGS	148 BUILTS ARE REQUIRED PRIOR TO CANCEL ACCEPTANCE AND EXPIRE ON THE RECORD DRAWING DATE.
PERMIT REQUIRED	(C) 3
FROM TO CONTINUE	3
ISSUE DATE	12/15/24
DWG FILE	17155
SHEET TITLE	STANDARD CONSTRUCTION DETAIL SHEET
D5	

P-1955 *Eng'g & Draining*

EXISTING VEGETATION ONSITE IS
TREES AND NATIVE GRASSES

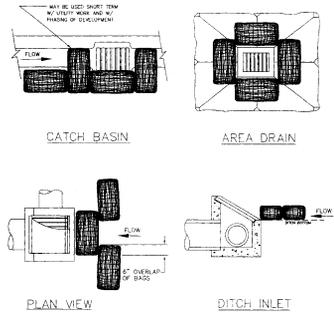
NOTE:
EROSION AND CONTROL PROTECTION
NOT LIMITED TO CALLOUTS ON PLAN

LEGEND
**SPOKANE COUNTY EROSION AND
SEDIMENT CONTROL BMP MANUAL**

- *SEE MANUAL FOR DETAILS OF BMPs
- (TS) TEMPORARY SEEDING
 - (MU) MULCHING AND MATTING
 - (CP) CLEAR PLASTIC COVERING
 - (NLS) PRESERVING NATURAL VEGETATION
 - (BZ) BUFFER ZONES
 - (PS) PERMANENT SEEDING AND PLANTING
 - (SO) SOO PLANTS
 - (TSO) TOP SOIL
 - (CL) CONSTRUCTION ENTRANCE
 - (CR) CONSTRUCTION ROAD
 - (BC) BULST CONTROL
 - (PSD) PIPE SLOPE DRAIN
 - (SR) SURFACE ROUGHENING
 - (SPP) BIOENGINEERED PROTECTION VERY STEEP SLOPES
 - (CD) CHECK DAMS
 - (DP) OUTLET PROTECTION
 - (RR) RIP RAP
 - (FF) FILTER FENCE
 - (SB) STRAW BAIL BARRIER
 - (BB) BRUSH BARRIER
 - (GB) GRAVEL FILTER BERM
 - (SD) STORM DRAIN INLET PROTECTION
 - (ST) SEDIMENT TRAP
 - (SB) TEMPORARY SEDIMENT POND OR BASIN

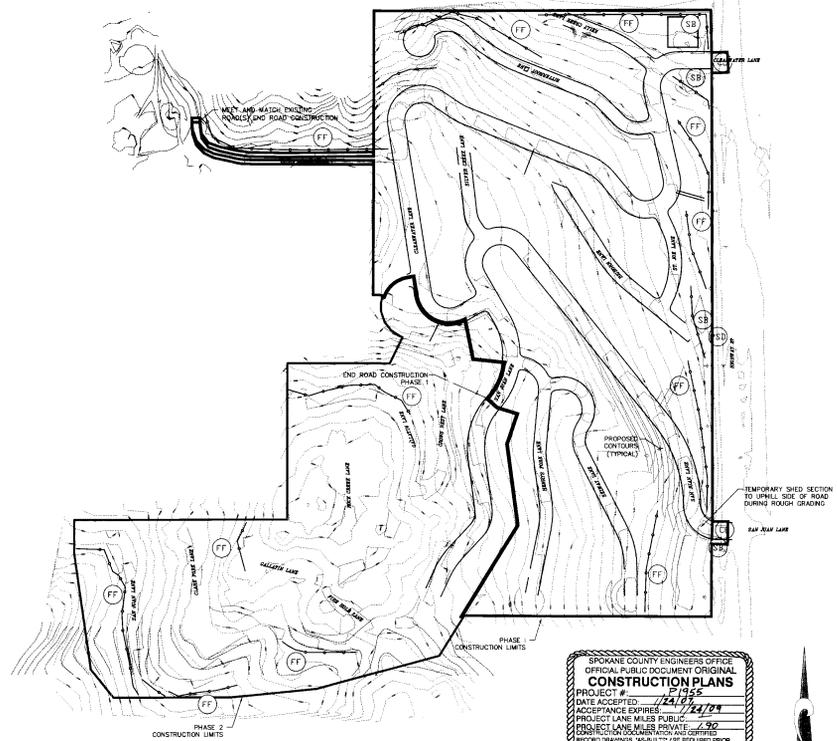


ELK RIDGE HEIGHTS PHASE I
STREET AND STORM DRAINAGE
STANDARD CONSTRUCTION DETAILS
SPOKANE COUNTY, WA

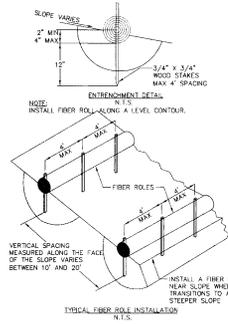


NOTES:
1. ADDITIONAL MEASURES MUST BE CONSIDERED DEPENDING ON SOIL TYPES.
2. BUILT FOR BASIC TYPES OF CHANNELS WHERE APPLICABLE USING 2" - 3" WOODEN STAKES OR APPROVED EQUAL PER BAG.
NOTE:
TO BE PLACED AT ALL CATCH BASINS ON PROJECT.

IP STORM DRAIN INLET PROTECTION



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC RECORD ORIGINAL
CONSTRUCTION PLANS
PROJECT # 19155
DATE ACCEPTED 12/11/2017
ACCEPTANCE EXPIRES 12/11/2024
PROJECT LANE MILLER PUBLIC
PROJECT LANE MILLER PRIVATE 7.92
RECORD DRAWINGS AS BUILT / ARE REQUIRED PRIOR TO CLOSURE / ACCEPTANCE / TO COMPLETION OF THE ROAD AND DRIVWAY FULL 11% MAINTENANCE / FEE / IT REQUIRED 11% 11% 11% 11% 11%
NOTIFY (SRM) BY 10:00 AM 11/11/2024
PROJECT 19155



V-Scale N/A
H-Scale 1" = 200'

DATE	DESCRIPTION
12/11/2017	CONTRACT REVISIONS

ISSUE DATE: 12/08/08
DRAWN BY: GRP
CHECKED BY: E1-E2
LONG FILE: 41-E2
PROJ. # P05290

SHEET TITLE:
E.S.C. PLAN
OVERALL