PILLAR ROCK ESTATES
5TH ADDITION

PW-1959-05

A PLAT IN A PORTION OF THE NW1/4 OF
THE SW1/4 OF SECTION 20, T.25 N., R.42 E.W.M.
SPOKANE COUNTY, WASHINGTON

CONSTRUCTION NOTES

1) ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH THE "SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION" 2010, AND ALL AMENDED.
2) LOCATIONS OF EXISTING UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES IN PLACE. ANY CONFLICTING FEATURES SHALL BE RELOCATED PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE FACILITIES.
3) THE CONTRACTOR IS REQUIRED TO HAVE A COMPLETE SET OF THE APPROVED ROAD AND DRAINAGE PLANS ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
4) IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING CONDITIONS ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER AND THE SPOKANE COUNTY ENGINEERS OFFICE.
5) FOR CONSTRUCTION OF DRYWELLS, INSTALL FILTER FABRIC (MIRAFI 140N OR APPROVED EQUIVALENT) BETWEEN THE WASHED DRAINROCK AND THE NATIVE SOILS.
6) PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING UNDERGROUND UTILITIES. CALL THE UNDERGROUND UTILITY LOCATION SERVICE AT 456-6000 BEFORE YOU DIG.
7) FOR ANY CURB GRADES LESS THAN CURB FLOW (F.F.L.), A WASHINGTON STATE LICENSED PROFESSIONAL LAND SURVEYOR SHALL VERIFY THAT THE CURB FORMS ARE AT THE GRADES NOTED ON THE PLANS PRIOR TO CONCRETE POURING. THE CONTRACTOR AND THE SURVEYOR ARE RESPONSIBLE FOR MINIMUM AND DIMENSIONAL WORK WITH THE PROFESSIONAL LAND SURVEYOR.
8) THE FLOOR OF A DRAINED FOUNDATION AREA (DFA) SHALL INCLUDES THE LEVEL PORTION OF THE FLOOR OF THE SHALL AND THE SIDE SLOPES OF THE SHALL UP TO THE DFA OVERFLOW ELEVATION OR TOP OF DRYWELL. THE SOIL LOCATED IN THE FLOOR OF THE DFA SHALL SHALL BE A MEDIUM TO WELL-DRAINING MATERIAL WITH A PERMANENT INFILTRATION RATE OF AT LEAST 0.5 INCHES PER HOUR (EXAMPLES INCLUDE SANDY LOAM AND LOAMY SAND WHICH MEETS ESAC ALL DFA SHALL CONTAIN 12 INCH PERIMETER DRAINROCK. AND WRITTEN CERTIFICATE SHALL BE SUBMITTED TO THE SPOKANE COUNTY ENGINEERS OFFICE PRIOR TO INSTALLING FINISHED LANDSCAPING AND PLANTING. THE CERTIFICATE SHALL INCLUDE THE LOCATION OF THE DFA, AND A NATIVE SOIL INFILTRATION WHICH ALSO MEETS OR EXCEEDS THIS MINIMUM PERCOLATION RATE OF 0.5 IN/HOUR PER HOUR.
9) AN EROSION/SEDIMENTATION CONTROL (ESC) PLAN IS REQUIRED FOR THIS PROJECT. IMPLEMENTATION OF THE ESC PLANS AND CONSTRUCTION MAINTENANCE, AND OPERATIONS OF THE ESC FACILITIES ARE THE RESPONSIBILITY OF THE DEVELOPER UNTIL ALL CONSTRUCTION IS COMPLETED AND ACCEPTED BY SPOKANE COUNTY. OR UNTIL VEGETATION IS ESTABLISHED THROUGHOUT THE SITE, AND ACCEPTED BY SPOKANE COUNTY. WHICHEVER IS LATER.
10) APPROVAL OF THE ESC PLAN DOES NOT CONSTITUTE APPROVAL OF ANY OF THE PROPOSED ROAD, STORM DRAINAGE, DRAINAGE OR UTILITY DESIGN ELEMENTS SHOWN ON THE ESC PLAN.
11) THE EROSION/SEDIMENTATION CONTROL MEASURES SHOWN ARE THE MINIMUM REQUIREMENTS FOR THE ESC PLAN. ADDITIONAL MEASURES MAY BE REQUIRED TO ADDRESS ACTUAL CONDITIONS ENCOUNTERED DAILY, AND SHALL MAINTAIN AND UPGRADE. WHEN NECESSARY AS NECESSARY TO PREVENT SEDIMENT-LADEN WATER FROM OTHER FLOWING OFF THE SITE, OR INTO NEW/EXISTING STORM DRAINAGE FACILITIES. SUCH AS DRYWELLS, CULVERTS, OR GRAVEL GALLERIES.
12) WATERSHED FARING IS TO BE PLACED ON THE RIMS OF DRYWELLS, CATCH BASINS AND INLETS UNTIL SUCH TIME THE VEGETATION ON THE SITE IS ESTABLISHED AND THE ENTIRETY OF SEDIMENT DEPOSITION WITH THE DRAINAGE SYSTEM IS REPORTED.
13) ONSITE GRADING SHALL BE IN ACCORDANCE WITH THE APPROVED GRADING PLAN AND ESC PLAN. ANY IMPORT OR EXPORT OF MATERIAL SHALL BE FROM A PREAPPROVED SOURCE/DESTINATION AND ACCOMPANIED BY A VALID PERMIT. ALL ONSITE GRADING SHALL BE CONDUCTED SO AS TO PREVENT GRADING ON THE SITE OR AND FOREST NOT MEET COMPLY WITH ALL DEVELOPMENT REGULATIONS INCLUDING, BUT NOT LIMITED TO, GRADING PERMITS, SEPA REVIEW, TIMBER HARVEST PERMITS, CRITICAL AREAS, FLOODPLAINS, DESIGNATED DRAINAGEWAYS, ETC.

CALL BEFORE YOU DIG: 811

PROJECT INFORMATION

OWNER/APPLICANT: PILLAR ROCK, LLC
KERI KAPPEN

CONTACT NUMBER: (509) 892-1400

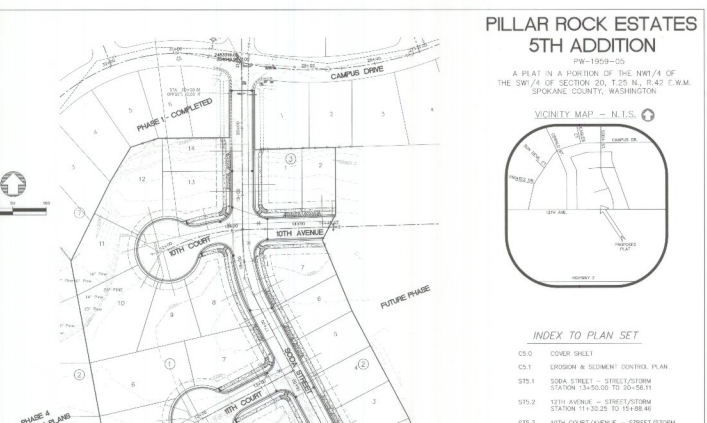
PROJECT LOCATION: ARBANY HEIGHTS, WA.

PROPERTY DESCRIPTION (BY SIMPSON ENGINEERS, INC.):

That portion of the North 16 of the Southwest 14 of Section 20, Township 25 North, Range 42 East W.M. described as follows:

Beginning at the NW corner of Lot 3 Block 4 of the Final Plat of Pillar Rock Estates, as recorded in Book 33 of Plats, Pages 3-5, said corner commons to Lots 2 and 3, Block 4, also on the South right of way (R/W) line of Campus Drive, a private road 56.00 feet in width being a point on a curve concave to the South with a radius of 1000.00 feet, thence Easterly, through a central angle of 3°18'17", the center of said curve, thence Easterly, through a central angle of 3°18'17", an arc distance of 53.44 feet along said South R/W line, to the beginning of a reverse curve concave to the South with a radius of 15.00 feet, thence Southeasterly, through a central angle of 83°31'32", an arc distance of 23.32 feet to the True Point of Beginning; thence S33°03'39"E, a distance of 58.79 feet to the SE corner of said Lot 3; thence continuing S33°03'39"E a distance of 12.54 feet; thence S00°00'00"E a distance of 120.00 feet; thence S89°59'00"E a distance 256.00 feet; thence Southeasterly, through a central angle of 8°37'58", an arc distance of 29.64 feet; thence S78°21'22"W, on a non-tangent bearing, a distance of 111.03 feet, to a point on the Easterly line of Lot 2 of said Block 4; thence S15°59'36"E a distance of 23.22 feet to the SE corner of said Lot 2; thence continuing S15°59'36"E a distance of 27.38 feet; thence S00°16'01"E a distance of 213.00 feet to the North R/W line of 12th Avenue; thence N89°43'58"E, along said North R/W, a distance of 265.46 feet; thence N10°08'16"W a distance of 368.57 feet to the SW corner of Lot 1 Block 7 of said Final Plat of Pillar Rock Estates; thence N00°00'00"E, along the West line of said Lot 2, a distance of 46.46 feet to the SE corner of Lot 1 of said Block 7; thence S52°34'53"W a distance of 120.59 feet to the SW corner of said Lot 1; thence N33°52'58"W, along the West line of said Lot 1, a distance of 61.99 feet; thence S57°55'52"W a distance of 38.00 feet to the True Point of Beginning.

Situate in the County of Spokane, State of Washington.



ENGINEER'S CERTIFICATION

THE DESIGN, IMPLEMENTATION, OR SEAL SET OF PLANS CONFORM TO THE APPLICABLE EDITIONS OF THE SPOKANE COUNTY ROAD STANDARDS AND THE 2006 SPOKANE COUNTY STORMWATER MANUAL, AND ARE IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPOKANE COUNTY ENGINEER. I APPROVE THESE PLANS FOR CONSTRUCTION.

ENGINEERS APPROVAL — DATE 6/9/16

DEVELOPERS APPROVAL — DATE 6/9/16

OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT NAME: PILLAR ROCK ESTATES 5TH ADDITION
DATE ACCEPTED: 06-14-16
ACCEPTANCE EXPIRES: 06-14-18
PROJECT LAND MILES PUBLIC: 0.00
PROJECT LAND MILES PRIVATE: 0.00
CONDITIONS OF ACCEPTANCE: THE CERTIFICATION OF THE DESIGN ENGINEER THAT THE PLANS CONFORM TO THE COUNTY ADOPTED ROAD AND STORM DRAINAGE STANDARDS AND THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE, INCLUDED IN THE PROJECT. SEE ATTACHED CONDITIONS OF ACCEPTANCE FOR ADDITIONAL PROJECT CONDITIONS.
PROJECT ENGINEER: DAVID A. SIMPSON
PROJECT NUMBER: PW-1959-05
PROJECT COORDINATOR: DAVID A. SIMPSON

BY	DATE	REVISIONS / AS BUILT
MJR	03-25-2016	1st SUBMITTAL PLAN SET TO SPOKANE COUNTY
MJR	04-15-2016	SPOKANE COUNTY COMMENTS - 2nd SUBMITTAL PLAN SET TO SPOKANE COUNTY
MJR	05-23-2016	SPOKANE COUNTY COMMENTS - 3rd SUBMITTAL PLAN SET TO SPOKANE COUNTY
MJR	06-02-2016	SPOKANE COUNTY COMMENTS - 3rd SUBMITTAL PLAN SET TO SPOKANE COUNTY
MJR	06-09-2016	PLANS FOR SPOKANE COUNTY & CITY OF SPOKANE
MJR	06-09-2016	ADD FIRE HYDRANT AND SUBMIT PLANS FOR SPOKANE COUNTY & CITY OF SPOKANE

BENCH MARK
ZONE-63 (NAVD88 DATUM)
DESCRIPTION
NGS BENCHMARK 8W
(PID DL1234)
STAMPED 8W 1965
(NEW & LOCALLY SHIFT)

SCALE
HORIZONTAL 1"=50'
VERTICAL 1"=10'

DATE 6-09-2016
DRAWN MJR
CHECKED ACD
APPROVED 6/9/16

Simpson Engineers, Inc.
Founded 1949
CIVIL ENGINEERS & LAND SURVEYORS
N. 909 ARGONNE ROAD, SPOKANE VALLEY, WA. 99212-2789
PHONE (509) 924-1322 FAX (509) 924-1323

TYPE OF IMPROVEMENT: COVER
PROJECT NUMBER: 16332
SHEET NUMBER: C5.0

PILLAR ROCK ESTATES - 5TH ADDITION
COVER SHEET
THE SW1/4 OF SECTION 20, T.25 N., R.42 E.W.M.

PILLAR ROCK ESTATES 5TH ADDITION

PW–1959–05

A PLAT IN A PORTION OF THE NW1/4 OF OF THE SW1/4 OF SECTION 20, T.25 N., R.42 E.W.M. SPOKANE COUNTY, WASHINGTON

TEMPORARY EROSION AND SEDIMENT CONTROL NOTES

1. The following construction sequence shall be followed in order to best minimize the potential for erosion and sediment control problems:
   (a) Clear and grub and rough grade sufficiently of temporary ESC BMPs;
   (b) Install temporary ESC BMPs, constructing sediment trapping BMPs as one of the first steps prior to grading;
   (c) Clear, grub and rough grade for roads, temporary access and utility locations;
   (d) Stabilize roadway approaches and temporary access points with the appropriate construction entry BMP.
   (e) Clear, grub and grade individual lots or groups of lots;
   (f) Temporarily stabilize, through re–vegetation or other appropriate BMPs, lots or groups of lots in situations where substantial cut or fill slopes are a result of the site grading;
   (g) Construct roads, buildings, permanent stormwater facilities (i.e.. inlets, ponds, UIC facilities, etc..);
   (h) Protect all permanent stormwater facilities utilizing the appropriate BMPs;
   (i) Install permanent ESC controls, when applicable; and,
   (j) Remove temporary ESC controls when:
2. Permanent ESC controls, when applicable, have been completely installed;
3. All land–disturbing activities that have the potential to cause erosion or sedimentation problems have ceased; and,
4. Vegetation has been in the areas noted as requiring vegetation on the accepted ESC plan on file with the local jurisdiction.
5. Inspect all roadways, at the end of each day, adjacent to the constriction access route. If it is evident that sediment has been tracked off site and/or beyond the roadway approach, cleaning is required.
6. If sediment removal is necessary prior to street washing, it shall be removed by shoveling or pickup sweeping and transported to a controlled sediment disposal area.
7. If street washing is required to clean sediment tracked off site, once sediment has been removed, street wash wastewater shall be controlled by pumping back on–site or otherwise prevented from discharging into systems tributary to waters of the state.
8. Restore construction access route equal to or better than the pre–construction condition.
9. Retain the duff layer, native topsoil, and natural vegetation in an undisturbed state to the maximum extent practical.
10. Inspect sediment control BMPs weekly at a minimum, daily during a storm event, and after any discharge from the site (stormwater are non–stormwater). The inspection frequency may be reduced to once a month if the site is stabilized and inactive.
11. Control fugitive dust from construction activity in accordance with the state and/or local air qualities with jurisdiction over the project area.
12. Stabilize exposed unworked soils (including stockpiles), whether at final grade or not, within 10 days during the regional dry season (July 1 through September 30) and within 5 days during the regional wet season (October 1 through June 30). Soils must be stabilized at the end of a shift before a holiday weekend if needed based on the weather forecast. This time limit may not only be adjusted by a local jurisdiction with a "Qualified Local Program," if it can be demonstrated that the recent precipitation justifies a different standard and meets the requirements set forth in the Construction Stormwater General Permit.
13. Protect inlets, drywells, catch basins and other stormwater management facilities from sediment, whether or not facilities are operable.
14. Keep roads adjacent to inlets clean.
15. Inspect inlets weekly at a minimum and daily during storm events.
16. Construct stormwater facilities (detention/retention storage pond or swales) before grading begins. These facilities shall be operational before the construction of impervious site improvements.
17. Stockpile materials (such as topsoil) on site, keeping off of roadway and sidewalks.
18. Cover, contain and protect ass chemicals, liquid products, petroleum product, and non–inert wastes present on site from vandalism (see Chapter 173–304 WAC for the definition of inert waste), use secondary containment for on–site fueling tanks.
19. Conduct maintenance and repair of heavy equipment and vehicles involving oil changes, hydraulic system repairs, solvent and de–greasing operations, fuel tank drain down and removal, and other activities that may result in discharge or spillage of pollutants to the ground or into stormwater runoff using spill prevention measures, such as drip pans. Clean all contaminated surfaces immediately following any discharge or spill incident. If raining over equipment or vehicle, perform emergency repairs n site using temporary plastic beneath the vehicle.
20. Conduct application of agricultural chemicals, including fertilizers and pesticides, in such a manner, and at application rates, that inhibits the loss of chemicals into stormwater runoff facilities. Amend manufacture's recommended application rates and procedures to meet this requirement, if necessary.
21. Inspect on a regular basis (at a minimum weekly, and daily a runoff producing storm event) and maintain all erosion and sediment control BMPs to ensure successful performance of the BMPs. Note that inlet protection devices shall be cleaned or removal and replace before six inches of sediment cam accumulate.
22. Remove temporary ESC BMPs within 30 days after the temporary BMPs are no longer needed. Permanently stabilize areas that are disturbed during the removal process.
23. A site log shall be completed with the project per S55.4

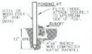
SILT FENCE DETAIL

NOT TO SCALE

SILTCO 180 SF SPEC

SILT FENCE SECTION

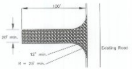
NOT TO SCALE



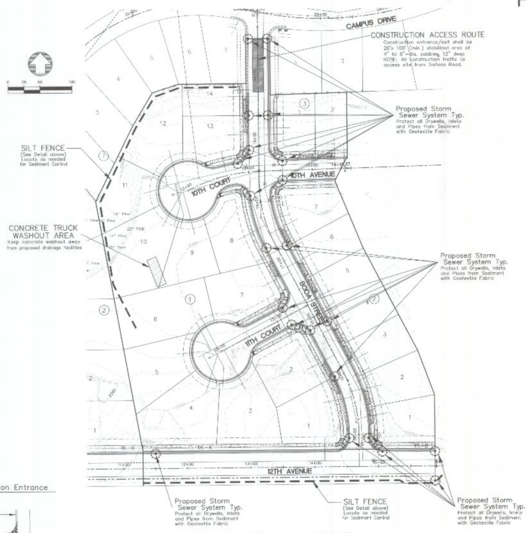
SILT FENCE NOTES

1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF–SITE AND CAN BE PERMANENTLY STABILIZED.
3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
4. TEMPORARY SILT FENCE LOCATION SHOWN ON THIS PLAN IS SCHEMATIC IN NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING ALL SILT RUNOFF DURING CONSTRUCTION.

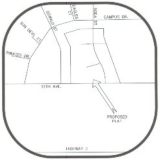
Stabilized Construction Entrance



* Material should be quarry spalls (where feasible), 4 inches to 8 inches size.
* The rock pad shall be at least 12 inches thick and 100 feet in length for sites more than 1 acre; and may be reduced to 50 feet in length for sites less than 1 acre. Site is approximately 19.3 acres.
* Width shall be the full length of the vehicle egress area (minimum 20 feet).
* Additional rock should be added periodically to maintain proper function of the pad.
* See figure I–5.4 per Spokane County Stormwater Management Manual.



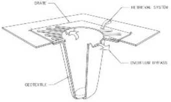
VICINITY MAP – N.T.S.

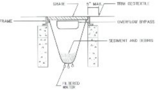


INLET PROTECTION

NOTES

1. INLET PROTECTION MUST BE REGULARLY INSPECTED BY THE EROSION CONTROL INDIVIDUAL TO INSURE PROPER PLACEMENT/FUNCTION AND MAINTENANCE.
2. WHEN REMOVING FILTER FABRIC AFTER CONSTRUCTION, CONTRACTOR MUST NOT ALLOW ANY MATERIAL TO SPILL INTO INLET TO PREVENT CONTAMINATION.





OWNER/APPLICANT	PILLAR ROCK, LLC / KIRK KAPPEN
CONTACT PERSON AT SITE	(509) 892–1490
PROJECT LOCATION	AIRWAY HEIGHTS, WA EAST OF CAMPUS DRIVE & 12TH AVENUE
PROJECT DESCRIPTION	23 LOT PLAT
ESC MEASURES	SILT FENCE, INLET PROTECTION, CONCRETE WASHOUT, AND CONSTRUCTION ENTRANCE
SITE VEGETATION	NATIVE DIRT AND PASTURE
SITE SOIL TYPES	3115 : NORTHSTAR–ROCK OUTCROP 3134 : PHEOBE ASHY SANDY

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-1959E
DATE ACCEPTED: 06-14-16
ACCEPTANCE EXPIRES: 06-14-18
PROJECT LANE MILES PUBLIC: .31
PROJECT LANE MILES PRIVATE: Ø
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

ENGINEER'S CERTIFICATION FOR ESC PLAN

THE RECOMMENDED PROVISIONS SHOWN IN THIS EROSION & SEDIMENT CONTROL PLAN MEET THE APPLICABLE REQUIREMENTS FOR ESC PLANS AS LISTED IN CHAPTER 9 OF THE 2008 REGIONAL STORMWATER MANAGEMENT. I APPROVE THIS PLAN FOR CONSTRUCTION.

[signature] 6/9/16
DESIGN ENGINEER DATE

[signature] 6/10/16
DEVELOPER DATE

BY	DATE	REVISIONS / AS BUILT
MJK	03–23–2016	1st SUBMITTAL PLAN SET TO SPOKANE COUNTY
MJK	03–29–2016	1st SUBMITTAL UTILITIES PLAN SET TO CITY OF SPOKANE
MJK	04–14–2016	SPOKANE COUNTY COMMENTS – 2ND SUBMITTAL PLAN SET TO SPOKANE COUNTY
MJK	05–02–2016	SPOKANE COUNTY COMMENTS – 3RD SUBMITTAL PLAN SET TO SPOKANE COUNTY
MJK	05–05–2016	MYLARS FOR SPOKANE COUNTY & CITY OF SPOKANE
MJK	06–09–2016	ADD FIRE HYDRANT AND SUBMIT MYLARS FOR SPOKANE COUNTY & CITY OF SPOKANE

BENCH MARK	SCALE		DATE
ELEVATION 2295.42 (NAVD88 DATUM)	HORIZONTAL 1"=50'	DRAWN MJK	5–09–2016
DESCRIPTION SEWER MANHOLE RIM LOCATED IN THE INTERSECTION OF CAMPUS DRIVE & OSWALD STREET	VERTICAL 1"=10'	CHECKED ACS	6/9/16
		APPROVED	

AARON C. SIMPSON, STATE OF WASHINGTON, 40493, PROFESSIONAL ENGINEER 6/9/16

Founded 1946
Simpson Engineers, Inc.
CIVIL ENGINEERS & LAND SURVEYORS
N. 909 ARGONNE ROAD, SPOKANE VALLEY WA., 99212-2789
PHONE (509) 926-1322 FAX (509) 926-1323

TYPE OF IMPROVEMENT: ESC	
PROJECT NUMBER	SHEET NUMBER
16332	C5.1

PILLAR ROCK ESTATES – 5TH ADDITION

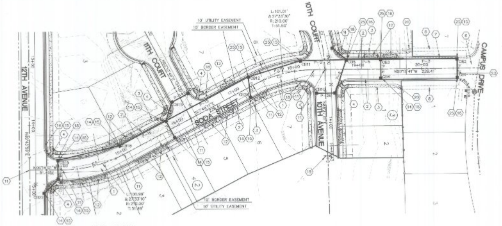
EROSION AND SEDIMENT CONTROL PLAN

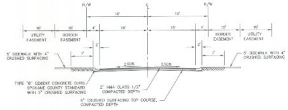
THE SW1/4 OF SECTION 20, T.25 N., R.42 E.W.M.

PILLAR ROCK ESTATES
5TH ADDITION

PW-1959-05

A PLAT IN A PORTION OF THE NW1/4 OF OF
THE SW1/4 OF SECTION 20, T.25 N., R.42 E.W.M.
SPOKANE COUNTY, WASHINGTON





TYPICAL SECTION: SODA STREET

NOT TO SCALE

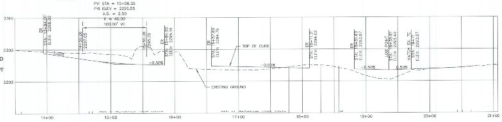
REFERENCE GEOTECHNICAL EVALUATION
PERPARED BY INTERMOUNTAIN MATERIALS
TESTING & GEOTECHNICAL, DATED
NOVEMBER 13, 2015

DRIVEWAY SCHEDULE

SODA STREET
EDGE OF DRIVEWAY 5' FROM NEAREST PROPERTY LINE

(L1-B1) ℄ STA: 14+86.12 LT.	(L1-B2) ℄ STA: 14+25.82 RT.
(L2-B1) ℄ STA: 15+17.48 LT.	(L2-B2) ℄ STA: 14+53.42 RT.
(L7-B1) ℄ STA: 16+95.38 LT.	(L3-B2) ℄ STA: 15+26.10 RT.
(L13-B1) ℄ STA: 19+20.91 LT.	(L4-B2) ℄ STA: 15+56.10 RT.
(L14-B1) ℄ STA: 19+50.91 LT.	(L5-B2) ℄ STA: 16+44.10 RT.
	(L6-B2) ℄ STA: 16+74.10 RT.
	(L7-B2) ℄ STA: 17+33.30 RT.

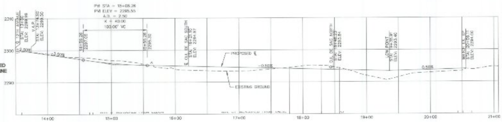
PROPOSED TOP OF CURB LEFT



CATCH BASIN SCHEDULE

STRUCTURE	STATION	RIM	INVERT
CB1	20+56.04 (RT)	2293.17	2288.04
CB2	20+56.00 (LT)	2293.95	2288.23
CB3	19+35.91 (LT)	2292.90	2288.59
CB4	19+35.94 (RT)	2292.90	2289.90
CB5	18+81.63 (LT)	2293.17	2288.76
CB6	12+85.16 (LT)	2293.19	2290.07
CB7			
CB8			
CB9	13+53.79 (LT)	2293.09	2289.84
CB10	13+53.10 (RT)	2293.09	2290.09
CB11	18+11.31 (LT)	2293.52	2289.12
CB12	17+30.89 (LT)	2293.92	2289.55
CB13			
CB14	13+16.96 (LT)	2294.41	2291.41
CB15	13+16.96 (RT)	2294.41	2291.26
CB16	15+84.60 (LT)	2294.66	2290.29
CB17	15+84.60 (RT)	2294.66	2291.66
CB18	15+02.48 (LT)	2295.43	2290.70
CB19	13+94.50 (LT)	2298.40	2292.29
CB20			
CB21	13+94.50 (LT)	2298.40	2292.44
CB22	15+05.96 (LT)	2298.50	2292.58
CB23	15+88.46 (LT)	2298.44	2293.00
CB24	15+88.46 (RT)	2296.28	2293.30
CB25	11+50.00 (LT)	2300.61	2293.08
CB26	17+19.10 (RT)	2293.98	2290.98

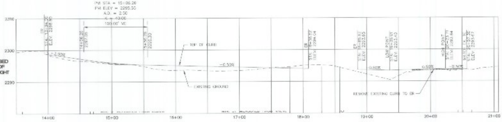
PROPOSED CENTERLINE



PIPE SCHEDULE

PIPE	DIA. / MATERIAL	LENGTH	SLOPE	I.E. (IN)	I.E. (OUT)
P1	EX. 18" CPEP STORM PIPE	34.8'	2.0%	2288.04 (CB1)	2287.34 (EX. MH)
P2	18" CPEP STORM PIPE	30.2'	0.6%	2288.23 (CB2)	2288.04 (CB1)
P3	18" CPEP STORM PIPE	120.1'	0.3%	2288.59 (CB3)	2288.23 (CB2)
P4	8" PVC STORM PIPE	30.7'	4.3%	2289.90 (CB4)	2288.59 (CB3)
P5	18" CPEP STORM PIPE	54.3'	0.3%	2288.76 (CB5)	2288.59 (CB3)
P6	12" CPEP STORM PIPE	54.9'	2.0%	2289.84 (CB9)	2288.76 (CB5)
P7	12" CPEP STORM PIPE	28.0'	4.7%	2290.07 (CB6)	2288.76 (CB5)
P8					
P9	15" CPEP STORM PIPE	71.8'	0.5%	2289.12 (CB11)	2288.76 (CB5)
P10	15" CPEP STORM PIPE	85.7'	0.5%	2289.55 (CB12)	2289.12 (CB11)
P11	8" PVC STORM PIPE	32.4'	4.4%	2290.98 (CB26)	2289.55 (CB12)
P12	15" CPEP STORM PIPE	146.29'	0.5%	2290.29 (CB16)	2289.55 (CB12)
P13	12" CPEP STORM PIPE	30.3'	3.2%	2291.26 (CB15)	2290.29 (CB16)
P14	8" PVC STORM PIPE	30.2'	0.5%	2291.41 (CB14)	2291.26 (CB15)
P15					
P16	12" CPEP STORM PIPE	82.2'	0.5%	2290.70 (CB18)	2290.29 (CB16)
P17	12" CPEP STORM PIPE	99.6'	1.6%	2292.29 (CB19)	2290.70 (CB18)
P18					
P19	12" CPEP STORM PIPE	30.2'	0.5%	2292.44 (CB21)	2292.29 (CB19)
P20	12" CPEP STORM PIPE	30.3'	0.5%	2292.59 (CB22)	2292.44 (CB21)
P21	12" CPEP STORM PIPE	82.5'	0.5%	2293.00 (CB23)	2292.58 (CB22)
P22	12" PVC STORM PIPE	46.1'	0.7%	2293.30 (CB24)	2293.00 (CB23)
P23	8" PVC STORM PIPE	30.1'	4.6%	2291.66 (CB17)	2290.29 (CB16)
P24	12" CPEP STORM PIPE	9.8'	0.5%	2293.08 (CB25)	2293.03 (STUB)
P25					
P26	8" PVC STORM PIPE	30.2'	0.8%	2290.09 (CB10)	2289.84 (CB9)

PROPOSED TOP OF CURB RIGHT



CONSTRUCTION NOTES - STREET PLANS - SPOKANE COUNTY

1. INSTALL ASPHALT CONCRETE PAVEMENT PER SPO. CO. STDS.
2. INSTALL CONCRETE CURB AND GUTTER PER SPO. CO. STD. SHEET A-3
3. INSTALL 5' SIDEWALK PER SPO. CO. STD. SHEET A-1
4. INSTALL CURB RAMP PER WSDOT STD. PLAN F-40.14-02
5. CONSTRUCT ROAD SIDE V-DITCH PER STREET CROSS SECTION DETAIL
6. EXISTING ASPHALT PAVEMENT
7. EXISTING TYPE "B" CURB
8. EXISTING 5' WIDE CONCRETE SIDEWALK
9. INSTALL CURB INLET TYPE 1 PER SPO. CO. STD. SHEET B-8 (N/A PHASE 5)
10. END TYPE "B" CURB, CONSTRUCT 3' LONG NOSE DOWN
11. CENTERLINE MONUMENT TO BE SET BY PLS, AS SHOWN ON FINAL PLAT
12. CONSTRUCT 20' WIDE CONCRETE DRIVEWAY PER SPO. CO. STD. SHEET A-4
13. CONSTRUCT EDGE OF PAVEMENT ANGLE POINT
14. INSTALL CATCH BASIN 1 PER SPO. CO. STD. SHEET B-4 & B-7
15. INSTALL METAL FRAME AND GRATE TYPE 1 PER SPO. CO. STDS. SHEET B-12
16. INSTALL METAL FRAME AND GRATE TYPE 3 PER SPO. CO. STDS. SHEET B-14
17. INSTALL METAL FRAME AND SOLID "STORM" COVER PER SPO. CO. STDS. SHEET B-15 (N/A PHASE 5)
18. INSTALL STREET SIGN PER SPOKANE COUNTY STDS A-16, A-16A & A-16B
19. INSTALL TYPE III BARICADE PER SPO. CO. STDS.
20. TRANSITION FROM 7' LANDSCAPING TO 10' LANDSCAPING PER SPO. CO. STDS.
21. INSTALL 12" CAP AND CONTRACTOR TO MARK END OF PIPE WITH VERTICAL 2X4 (N/A PHASE 5)
22. CONNECT TO EXISTING STORM PIPE
23. INSTALL SLEEVE ON STORM PIPE FOR CITY WATER CROSSING, PER CITY OF SPOKANE STANDARDS
24. INSTALL CURB RAMP PER WSDOT STD. PLAN F-40.16-02
25. INSTALL CATCH BASIN TYPE-1L PER WSDOT STD. B-5.40-01

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-1959E
DATE ACCEPTED: 06-14-16
ACCEPTANCE EXPIRES: 06-14-18
PROJECT LANE MILES PUBLIC: .28
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

0 25 50 100

BY	DATE	REVISIONS / AS BUILT
MJK	03-23-2016	1st SUBMITTAL PLAN SET TO SPOKANE COUNTY
MJK	03-29-2016	1st SUBMITTAL UTILITIES PLAN SET TO CITY OF SPOKANE
MJK	04-14-2016	SPOKANE COUNTY COMMENTS - 2ND SUBMITTAL PLAN SET TO SPOKANE COUNTY
MJK	05-02-2016	SPOKANE COUNTY COMMENTS - 3RD SUBMITTAL PLAN SET TO SPOKANE COUNTY
MJK	05-03-2016	MYLARS FOR SPOKANE COUNTY & CITY OF SPOKANE
MJK	06-09-2016	ADD FIRE HYDRANT AND SUBMIT MYLARS FOR SPOKANE COUNTY & CITY OF SPOKANE

BENCH MARK
ELEVATION: 2235.42 (NAVD88 DATUM)
DESCRIPTION: SEWER MANHOLE RIM LOCATED IN THE INTERSECTION OF CAMPUS DRIVE & OSWALD STREET

SCALE
HORIZONTAL 1"=50'
VERTICAL 1"=10'

DRAWN MJK — DATE 6-09-2016
CHECKED ACS — 6/9/16
APPROVED

Founded 1946
Simpson Engineers, Inc.
CIVIL ENGINEERS & LAND SURVEYORS
N. 909 ARGONNE ROAD, SPOKANE VALLEY WA., 99212-2789
PHONE (509) 926-1322 FAX (509) 926-1323

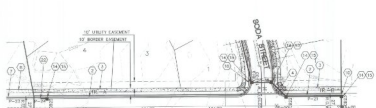
TYPE OF IMPROVEMENT: STREET
PROJECT NUMBER: 16332
SHEET NUMBER: ST 5.1

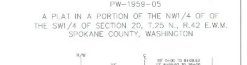
PILLAR ROCK ESTATES - 5TH ADDITION
SODA STREET
STATION 13+50.00 TO 20+56.11
THE SW1/4 OF SECTION 20, T.25 N., R.42 E.W.M.

PILLAR ROCK ESTATES
5TH ADDITION

PW-1959-05

A PLAT IN A PORTION OF THE NW1/4 OF OF THE SW1/4 OF SECTION 20, T.25 N., R.42 E.W.M.
SPOKANE COUNTY, WASHINGTON





TYPICAL SECTION 12TH AVENUE

NOT TO SCALE

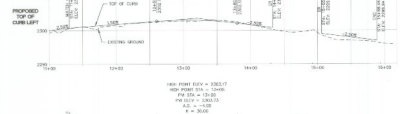
REFERENCE GEOTECHNICAL EVALUATION
PILLAR ROCK ESTATES, SPOKANE COUNTY
TESTING & GEOTECHNICAL, INC.
NOVEMBER 13, 2015

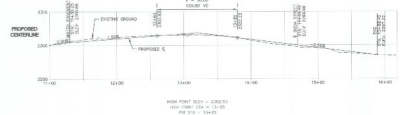
CATCH BASIN SCHEDULE

STRUCTURE	STATION	RIM	INVERT
CB1	10+00.00 (L)	2303.00	2298.00
CB2	10+00.00 (R)	2303.17	2298.00
CB3	12+30.31 (L)	2301.66	2299.66
CB4	12+30.31 (R)	2301.66	2299.66
CB5	14+00.31 (L)	2300.77	2298.76
CB6	14+00.31 (R)	2300.77	2298.76
CB7	14+85.15 (L)	2299.61	2297.61
CB8			
CB9	13+02.38 (L)	2303.00	2298.00
CB10	13+02.38 (R)	2303.00	2298.00
CB11	14+17 (L)	2303.00	2298.50
CB12	14+16.96 (R)	2303.00	2298.50
CB13			
CB14	11+18.46 (L)	2304.41	2297.41
CB15	11+18.46 (R)	2304.41	2297.41
CB16	10+94.46 (L)	2304.00	2297.00
CB17	10+94.46 (R)	2304.00	2297.00
CB18	11+00.46 (L)	2298.00	2292.00
CB19	11+94.31 (L)	2298.00	2292.00
CB20			
CB21	12+34.50 (L)	2298.00	2292.00
CB22	12+34.50 (R)	2298.00	2292.00
CB23	13+00.46 (L)	2298.00	2292.00
CB24	13+00.46 (R)	2298.00	2292.00
CB25	13+00.00 (L)	2303.17	2294.96
CB26	14+15.78 (R)	2302.98	2294.98

PIPE SCHEDULE

PIPE#	SIZE / MATERIAL	LENGTH	SLOPE	U/S INV.	D/S INV.
P1	18" CPEP STORM PIPE	64.0'	1.0%	2298.36 (CB1)	2297.76 (P2, BMP)
P2	18" CPEP STORM PIPE	64.0'	1.0%	2297.76 (P1)	2297.16 (P3, BMP)
P3	18" CPEP STORM PIPE	100.1'	1.0%	2296.56 (P2)	2295.56 (P4)
P4	18" PVC STORM PIPE	30.1'	4.0%	2295.60 (P3)	2294.50 (P5)
P5	18" PVC STORM PIPE	30.1'	4.0%	2294.50 (P4)	2293.40 (P6)
P6	18" CPEP STORM PIPE	34.9'	1.0%	2293.40 (P5)	2293.05 (P7)
P7	18" CPEP STORM PIPE	34.9'	1.0%	2293.05 (P6)	2292.70 (P8)
P8	18" CPEP STORM PIPE	34.9'	1.0%	2292.70 (P7)	2292.35 (P9)
P9	18" CPEP STORM PIPE	34.9'	1.0%	2292.35 (P8)	2292.00 (P10)
P10	18" CPEP STORM PIPE	71.4'	0.5%	2289.19 (CB2)	2288.79 (CB3)
P11	18" CPEP STORM PIPE	71.4'	0.5%	2288.79 (CB3)	2288.39 (CB4)
P12	18" CPEP STORM PIPE	71.4'	0.5%	2288.39 (CB4)	2287.99 (CB5)
P13	18" CPEP STORM PIPE	46.55'	0.5%	2287.82 (CB5)	2287.55 (CB6)
P14	18" CPEP STORM PIPE	30.0'	0.5%	2287.55 (CB6)	2287.40 (CB7)
P15	18" CPEP STORM PIPE	30.0'	0.5%	2291.41 (CB11)	2291.26 (CB12)
P16	18" CPEP STORM PIPE	80.0'	1.0%	2295.75 (CB14)	2294.95 (CB15)
P17	18" CPEP STORM PIPE	80.0'	1.0%	2294.95 (CB15)	2294.15 (CB16)
P18	18" CPEP STORM PIPE	30.0'	0.5%	2292.45 (CB19)	2292.30 (CB20)
P19	18" CPEP STORM PIPE	30.0'	0.5%	2292.30 (CB20)	2292.15 (CB21)
P20	18" CPEP STORM PIPE	30.0'	0.5%	2292.15 (CB21)	2292.00 (CB22)
P21	18" PVC STORM PIPE	30.0'	4.0%	2291.00 (CB23)	2289.80 (CB24)
P22	18" PVC STORM PIPE	30.0'	4.0%	2298.46 (CB25)	2297.26 (CB26)
P23	18" CPEP STORM PIPE	8.0'	0.5%	2298.00 (CB25)	2297.96 (CB26)
P24	18" PVC STORM PIPE	30.0'	0.5%	2299.09 (CB26)	2299.04 (CB27)





CONSTRUCTION NOTES - STREET PLANS - SPOKANE COUNTY

1. INSTALL ASPHALT CONCRETE PAVEMENT PER SPO. CO. STDS.
2. INSTALL CONCRETE CURB AND GUTTER PER SPO. CO. STD. SHEET A-3
3. INSTALL 6" SIDEWALK PER SPO. CO. STD. SHEET A-1
4. INSTALL CURB RAMP PER WSDOT STD. PLAN F-40.11-02
5. CONSTRUCT ROAD SIDE 4-INTCH PER STREET GRADE SECTION DETAIL
6. EXISTING ASPHALT PAVEMENT
7. EXISTING TYPE "B" CURB
8. EXISTING 5' WIDE CONCRETE SIDEWALK
9. INSTALL CURB INLET TYPE 1 PER SPO. CO. STD. SHEET D-6 (N/A PHASE 3)
10. TIE PIPE "B" CURVE, CONTRACT 2 LINE WITH ZONE
11. CENTERLINE MONUMENT TO BE SET BY PLS AS SHOWN ON FINAL PLAT
12. CONSTRUCT 30' WIDE CONCRETE DRIVEWAY PER SPO. CO. STD. SHEET B-4
13. CONSTRUCT EDGE OF PAVEMENT ANGLE POINT
14. INSTALL CATCH BASIN 1 PER SPO. CO. STD. SHEET B-4 & B-7
15. INSTALL METAL FRAME AND GRATE TYPE 1 PER SPO. CO. STDS. SHEET B-12
16. INSTALL METAL FRAME AND GRATE TYPE 2 PER SPO. CO. STDS. SHEET B-14
17. INSTALL METAL FRAME AND SOLID "STORM" COVER PER SPO. CO. STDS. SHEET D-15 (N/A PHASE 3)
18. INSTALL STREET SIGN PER SPOKANE COUNTY STDS. # 1.6, A-100 & A-101
19. INSTALL TYPE III BARRICADE PER SPO. CO. STDS.
20. TRANSITION FROM 7' LANDSCAPING TO 10' LANDSCAPING PER SPO. CO. STDS.
21. INSTALL 10' CAP AND CONTINUATION TO MATCH ONE 10' PIPE BEHIND CAP (N/A PHASE 3)
22. CONNECT TO EXISTING STORM PIPE
23. INSTALL SLEEVE ON STORM PIPE FOR CITY WATER CROSSING, PER CITY OF SPOKANE STANDARDS
24. INSTALL CURB RAMP PER WSDOT STD. PLAN F-40.16-02
25. INSTALL CATCH BASIN TYPE-1, PER WSDOT STD. D-5.10-01

INTERSECTION DETAIL

SPOKANE COUNTY, WASHINGTON
PILLAR ROCK ESTATES - 5TH ADDITION
STA: 12+94.56 (L) 16.94' LT. TO 2298.90
STA: 13+89.56 (R) 16.92' RT. TO 2298.90
STA: 13+91.94 (L) 24.00' LT. TO 2298.84
STA: 13+93.32 (R) 24.00' RT. TO 2299.50
STA: 14+30.98 (L) 24.00' LT. TO 2300.63

OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # PW-1959-05
DATE ACCEPTED: 07/06/16
ACCEPTANCE EXPIRES: 07/06/17
PROJECT NAME: PILLAR ROCK ESTATES 5TH ADDITION
CONTRACTOR MUST NOTIFY THE PROJECT ENGINEER FOR CONSTRUCTION INSPECTION AND OBTAIN PROJECT ENGINEER'S WRITTEN CONSENT FOR FINAL ACCEPTANCE AND FOR PRELIMINARY OF THE PLANS AND DRAWINGS FOR FUTURE MAINTENANCE.
SPOKANE COUNTY ENGINEER
ACCEPTANCE OF CONSTRUCTION PLANS DOES NOT CONSTITUTE ACCEPTANCE OF THE PROJECT PRIOR TO CONSTRUCTION

M.R.	03-23-2016	1st SUBMITTAL PLAN SET TO SPOKANE COUNTY
M.R.	03-28-2016	1st SUBMITTAL UTILITIES PLAN SET TO CITY OF SPOKANE
M.R.	04-14-2016	SPOKANE COUNTY COMMENTS - 2ND SUBMITTAL PLAN SET TO SPOKANE COUNTY
M.R.	05-23-2016	SPOKANE COUNTY COMMENTS - 3RD SUBMITTAL PLAN SET TO SPOKANE COUNTY
M.R.	05-23-2016	AFLARS FOR SPOKANE COUNTY & CITY OF SPOKANE
M.R.	06-08-2016	ADD FIRE HYDRANT AND SUBMIT AFLARS FOR SPOKANE COUNTY & CITY OF SPOKANE

BY	DATE	REVISIONS / AS BUILT

BENCH MARK
ELEVATION
GRID 42 (NAVD88 DATUM)
DESCRIPTION
SEE DRAWING PW-1959-05 FOR DESCRIPTION OF CONTROL POINT & VERTICAL DATUM

SCALE
HORIZONTAL 1" = 50'
VERTICAL 1" = 10'

DATE 6-09-2016
DRAWN M.R.
CHECKED M.D.
APPROVED

6/07/16

Founded 1946
Simpson Engineers, Inc.
CIVIL ENGINEERS & LAND SURVEYORS
N. 909 ARGONNE ROAD, SPOKANE VALLEY, WA. 99212-2789
PHONE (509) 924-4393 FAX (509) 926-1323

TYPE OF IMPROVEMENT: STREET
PROJECT NUMBER: 16332
SHEET NUMBER: ST5.2

PILLAR ROCK ESTATES - 5TH ADDITION

12TH AVENUE

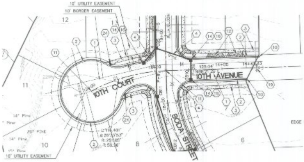
STATION 11+30.25 TO 15+88.46

THE SW1/4 OF SECTION 20, T.25 N., R.42 E.W.M.

PILLAR ROCK ESTATES 5TH ADDITION

PW-1959-05

A PLAT IN A PORTION OF THE NW1/4 OF OF THE SW1/4 OF SECTION 20, T.25 N., R.42 E.W.M. SPOKANE COUNTY, WASHINGTON

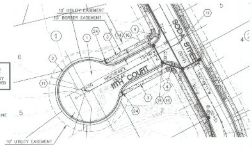


TYPE "B" CURB TO BE INSTALLED THRU CUL DE SACS. HOME BUILDERS WILL BE RESPONSIBLE FOR SAW CUTTING DRIVEWAY APPROACHES WHEN BUILDING PERMIT ISSUED

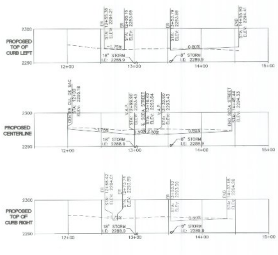
DRIVEWAY SCHEDULE

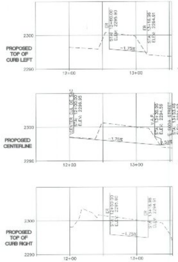
10TH AVENUE
EDGE OF DRIVEWAY 5' FROM NEAREST PROPERTY LINE

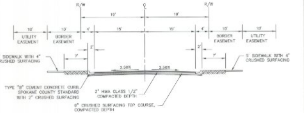
(L1-B3) ℄ STA: 13+90.83 LT.
(L2-B3) ℄ STA: 14+20.84 LT.



C1
L: 116.40'
Δ 26°33'53"
R: 251.05'
T: 59.26'





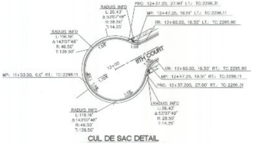


TYPICAL SECTION: 10TH COURT/AVENUE + 11TH COURT

NOT TO SCALE

REFERENCE GEOTECHNICAL EVALUATION PERPARED BY INTERMOUNTAIN MATERIALS TESTING & GEOTECHNICAL, DATED NOVEMBER 13, 2015

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-1959E
DATE ACCEPTED: 06-14-16
ACCEPTANCE EXPIRES: 06-14-18
PROJECT LANE MILES PUBLIC: .08
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION



CUL DE SAC DETAIL

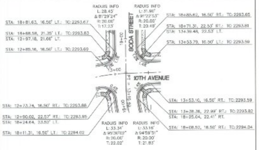
DIMENSIONS TO FACE OF TYPE "B" CURB
CENTER CUL DE SAC STA: 12+00.00

INTERSECTION DETAIL

DIMENSIONS TO FACE OF TYPE "B" CURB
11TH COURT STA: 13+53.46
SODA STREET STA: 16+21.10

CUL DE SAC DETAIL

DIMENSIONS TO FACE OF TYPE "B" CURB
CENTER CUL DE SAC STA: 12+00.00



INTERSECTION DETAIL

DIMENSIONS TO FACE OF TYPE "B" CURB
10TH COURT/AVENUE STA: 13+15.40
SODA STREET STA: 18+48.23

CATCH BASIN SCHEDULE

STRUCTURE	STATION	RIM	INVERT
CB1	20+56.04 (RT)	2293.17	2288.04
CB2	20+56.00 (LT)	2293.95	2288.23
CB3	19+35.91 (LT)	2292.90	2288.59
CB4	19+35.94 (RT)	2292.90	2288.90
CB5	18+81.63 (LT)	2293.17	2288.76
CB6	12+85.16 (LT)	2293.19	2290.07
CB7			
CB8			
CB9	13+53.79 (LT)	2293.09	2289.84
CB10	13+53.10 (RT)	2293.09	2290.09
CB11	18+11.31 (LT)	2293.52	2289.12
CB12	17+30.89 (LT)	2293.92	2289.55
CB13			
CB14	13+16.96 (LT)	2294.41	2291.41
CB15	13+16.98 (RT)	2294.41	2291.26
CB16	15+84.60 (LT)	2294.86	2290.29
CB17	15+84.60 (RT)	2294.66	2291.66
CB18	15+02.48 (LT)	2295.43	2290.70
CB19	13+94.50 (LT)	2298.40	2292.29
CB20			
CB21	13+94.50 (LT)	2298.40	2292.44
CB22	15+05.98 (LT)	2298.50	2292.59
CB23	15+88.48 (LT)	2296.44	2293.00
CB24	15+88.46 (RT)	2296.28	2293.30
CB25	11+50.00 (LT)	2300.61	2293.08
CB26	17+19.10 (RT)	2293.98	2290.98

PIPE SCHEDULE

PIPE	DIA. / MATERIAL	LENGTH	SLOPE	I.E. (IN)	I.E. (OUT)
P1	EX. 18" CPEP STORM PIPE	34.8'	2.0%	2288.04 (CB1)	2287.34 (EX. MH)
P2	18" CPEP STORM PIPE	30.2'	0.6%	2288.23 (CB2)	2288.04 (CB1)
P3	18" CPEP STORM PIPE	120.1'	0.3%	2288.59 (CB3)	2288.23 (CB2)
P4	8" PVC STORM PIPE	30.2'	4.3%	2288.90 (CB4)	2288.59 (CB3)
P5	18" CPEP STORM PIPE	54.3'	0.3%	2288.76 (CB5)	2288.59 (CB3)
P6	12" CPEP STORM PIPE	54.9'	2.0%	2289.84 (CB9)	2288.76 (CB5)
P7	12" CPEP STORM PIPE	28.0'	4.7%	2290.07 (CB6)	2288.76 (CB5)
P8					
P9	15" CPEP STORM PIPE	71.8'	0.5%	2289.12 (CB11)	2288.76 (CB5)
P10	15" CPEP STORM PIPE	85.7'	0.5%	2289.55 (CB12)	2289.12 (CB11)
P11	8" PVC STORM PIPE	32.4'	4.4%	2290.98 (CB26)	2289.55 (CB12)
P12	15" CPEP STORM PIPE	146.29'	0.5%	2290.29 (CB16)	2289.55 (CB12)
P13	12" CPEP STORM PIPE	30.3'	3.2%	2291.26 (CB15)	2290.29 (CB16)
P14	8" PVC STORM PIPE	30.2'	0.5%	2291.41 (CB14)	2291.26 (CB15)
P15					
P16	12" CPEP STORM PIPE	82.2'	0.5%	2290.70 (CB18)	2290.29 (CB16)
P17	12" CPEP STORM PIPE	99.6'	1.6%	2292.29 (CB19)	2290.70 (CB18)
P18					
P19	12" CPEP STORM PIPE	30.2'	0.5%	2292.44 (CB21)	2292.29 (CB19)
P20	12" CPEP STORM PIPE	30.3'	0.5%	2292.59 (CB22)	2292.44 (CB21)
P21	12" CPEP STORM PIPE	82.5'	0.5%	2293.00 (CB23)	2292.59 (CB22)
P22	12" PVC STORM PIPE	46.1'	0.7%	2293.30 (CB24)	2293.00 (CB23)
P23	8" PVC STORM PIPE	30.1'	4.6%	2291.66 (CB17)	2290.29 (CB16)
P24	12" CPEP STORM PIPE	9.8'	0.5%	2293.08 (CB25)	2293.03 (STUB)
P25					
P26	8" PVC STORM PIPE	30.2'	0.5%	2290.09 (CB10)	2289.84 (CB9)

CONSTRUCTION NOTES - STREET PLANS - SPOKANE COUNTY

1. INSTALL ASPHALT CONCRETE PAVEMENT PER SPO. CO. STDS.
2. INSTALL CONCRETE CURB AND GUTTER PER SPO. CO. STD. SHEET A-3
3. INSTALL 5' SIDEWALK PER SPO. CO. STD. SHEET A-1
4. INSTALL CURB RAMP PER WSDOT STD. PLAN F-40.14-02
5. CONSTRUCT ROAD SIDE V-DITCH PER STREET CROSS SECTION DETAIL
6. EXISTING ASPHALT PAVEMENT
7. EXISTING TYPE "B" CURB
8. EXISTING 5' WIDE CONCRETE SIDEWALK
9. INSTALL CURB INLET TYPE 1 PER SPO. CO. STD. SHEET B-8 (N/A PHASE 5)
10. END TYPE "B" CURB, CONSTRUCT 3' LONG NOSE DOWN
11. CENTERLINE MONUMENT TO BE SET BY PLS, AS SHOWN ON FINAL PLAT
12. CONSTRUCT 20' WIDE CONCRETE DRIVEWAY PER SPO. CO. STD. SHEET A-4
13. CONSTRUCT EDGE OF PAVEMENT ANGLE POINT
14. INSTALL CATCH BASIN 1 PER SPO. CO. STD. SHEET B-4 & B-7
15. INSTALL METAL FRAME AND GRATE TYPE 1 PER SPO. CO. STDS. SHEET B-12
16. INSTALL METAL FRAME AND GRATE TYPE 3 PER SPO. CO. STDS. SHEET B-14
17. INSTALL METAL FRAME AND SOLID "STORM" COVER PER SPO. CO. STDS. SHEET B-15 (N/A PHASE 5)
18. INSTALL STREET SIGN PER SPOKANE COUNTY STDS A-16, A-16A & A-16B
19. INSTALL TYPE II BARICADE PER SPO. CO. STDS.
20. TRANSITION FROM 7' LANDSCAPING TO 10' LANDSCAPING PER SPO. CO. STDS.
21. INSTALL 12" CAP AND CONTRACTOR TO MARK END OF PIPE WITH VERTICAL 2X4 (N/A PHASE 5)
22. CONNECT TO EXISTING STORM PIPE
23. INSTALL SLEEVE ON STORM PIPE FOR CITY WATER CROSSING, PER CITY OF SPOKANE STANDARDS
24. INSTALL CURB RAMP PER WSDOT STD. PLAN F-40.15-02
25. INSTALL CATCH BASIN TYPE-1L PER WSDOT STD. B-5.40-01

0 25 50 100

BY	DATE	REVISIONS / AS BUILT
MJK	03-23-2016	1st SUBMITTAL PLAN SET TO SPOKANE COUNTY
MJK	03-29-2016	1st SUBMITTAL UTILITIES PLAN SET TO CITY OF SPOKANE
MJK	04-14-2016	SPOKANE COUNTY COMMENTS - 2ND SUBMITTAL PLAN SET TO SPOKANE COUNTY
MJK	05-02-2016	SPOKANE COUNTY COMMENTS - 3RD SUBMITTAL PLAN SET TO SPOKANE COUNTY
MJK	05-03-2016	MYLARS FOR SPOKANE COUNTY & CITY OF SPOKANE
MJK	06-09-2016	ADD FIRE HYDRANT AND SUBMIT MYLARS FOR SPOKANE COUNTY & CITY OF SPOKANE

BENCH MARK
ELEVATION: 2295.42 (NAVD88 DATUM)
DESCRIPTION: SEWER MANHOLE RIM LOCATED IN THE INTERSECTION OF CAMPUS DRIVE & OSWALD STREET

SCALE
HORIZONTAL 1"=50'
VERTICAL 1"=10'

DRAWN MJK — DATE 6-09-2016
CHECKED ACS — 6/9/16
APPROVED

AARON C. SIMPSON, STATE OF WASHINGTON, 43460, REGISTERED PROFESSIONAL ENGINEER 6/9/16

Founded 1948
Simpson Engineers, Inc.
CIVIL ENGINEERS & LAND SURVEYORS
N. 909 ARGONNE ROAD, SPOKANE VALLEY WA., 99212-2789
PHONE (509) 926-1322 FAX (509) 926-1323

TYPE OF IMPROVEMENT: STREET
PROJECT NUMBER: 16332
SHEET NUMBER: ST5.3

PILLAR ROCK ESTATES - 5TH ADDITION

10TH COURT/AVENUE - STATION 12+00.00 TO 14+45.44
11TH COURT - STATION 12+00.00 TO 13+53.46
THE SW1/4 OF SECTION 20, T.25 N., R.42 E.W.M.