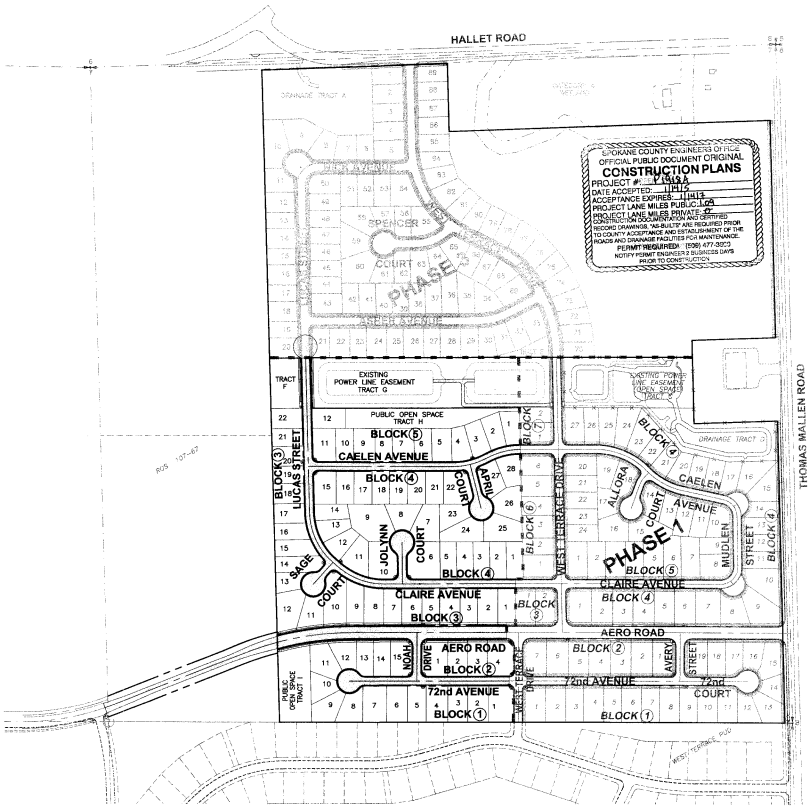
BIG SKY - PHASE 2

LOCATED IN THE N.E. ¼, SEC. 7, T. 24 N., R. 42 E., W.M.



GENERAL NOTES

OWNER: ***Aho Construction***
5512 NE 109th court, Suite 101
Vancouver, WA 98662
(360)254-0493 (Ph)
(360)254-6998 (Fax)

DEVELOPER: ***Same As Owner***

Boundary and topographic information prepared by Minister & Glaeser Surveying, Inc., 2003.

Temporary benchmark is a WSDOT 3" brass disk in monument case located in the intersection of Geiger Road and Hayford Road. Elevation is 2412.29, NAVD 88 Datum.

Locations of existing utilities shown in plans are approximate. The contractor shall be responsible for locating all underground utilities prior to construction of road and drainage facilities.

A minimum of two full business days prior to beginning construction, the Contractor shall call 1-509-456-8000 (Utilities Underground Location Center) for location mark-up of existing utilities.

Any archaeological findings shall be reported to the County inspector and any state agency required by Washington State law.

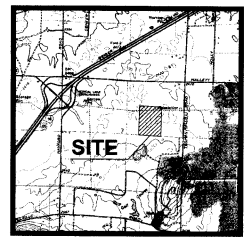
Site grading, paving, and storm sewer construction, materials and workmanship shall conform to the "2004 Standard Specifications for Road, Bridge and Municipal Construction" prepared by WSDOT/APWA, and the standards and practices of the City of Spokane Department of Engineering Services.

Public sanitary sewer and water system construction, materials, and workmanship shall conform to the "2004 Standard Specifications for Road, Bridge & Municipal Construction" prepared by the WSDOT/APWA, and the standards and practices of the City of Spokane Department of Engineering Services.

Erosion, sediment, and air quality control shall comply with Spokane County air quality control ordinances, and the notes and details on these plans.

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.

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 Engineer's Office.



VICINITY MAP
NOT TO SCALE

PROJECT APPLICANT

AHO CONSTRUCTION 12/20/04

SHEET INDEX

1. COVER SHEET
2. GENERAL NOTES
3. EROSION CONTROL PLAN
4. EROSION CONTROL DETAILS
5. GRADING PLAN
6. MASTER UTILITY PLAN
7. CAELEN AVENUE STORM DRAINAGE & STREET PLAN & PROFILE
8. CLAIRE AVENUE STORM DRAINAGE & STREET PLAN & PROFILE
9. LUCAS STREET STORM DRAINAGE & STREET PLAN & PROFILE
10. AERO ROAD STORM DRAINAGE & STREET PLAN & PROFILE
11. AERO ROAD STORM DRAINAGE & STREET PLAN & PROFILE
12. 72nd AVENUE STORM DRAINAGE & STREET PLAN & PROFILE
13. APRIL COURT & JOLYNN COURT STORM DRAINAGE & STREET PLAN & PROFILE
14. SAGE COURT & NOAH DRIVE STORM DRAINAGE & STREET PLAN & PROFILE
15. STM ESMT 1, 2 & STM PIPE TO POND A PLAN & PROFILE
16. CAELEN AVENUE SANITARY SEWER PLAN & PROFILE
17. ~~CLAIRE AVENUE SANITARY SEWER PLAN & PROFILE~~
18. ~~LUCAS STREET SANITARY SEWER PLAN & PROFILE~~
19. ~~NOAH AVENUE SANITARY SEWER PLAN & PROFILE~~
20. ~~72nd AVENUE SANITARY SEWER PLAN & PROFILE~~
21. ~~APRIL COURT SANITARY SEWER PLAN & PROFILE~~
22. ~~JOLYNN COURT SANITARY SEWER PLAN & PROFILE~~
23. ~~SAGE COURT SANITARY SEWER PLAN & PROFILE~~
24. ~~CAELEN AVENUE WATER PLAN & PROFILE~~
25. CLAIRE AVENUE WATER PLAN & PROFILE
26. ~~LUCAS STREET WATER PLAN & PROFILE~~
27. ~~AERO ROAD WATER PLAN & PROFILE~~
28. ~~72nd AVENUE WATER PLAN & PROFILE~~
29. ~~APRIL COURT WATER PLAN & PROFILE~~
30. ~~JOLYNN COURT WATER PLAN & PROFILE~~
31. ~~SAGE COURT WATER PLAN & PROFILE~~
32. STORM FACILITY PLAN
33. STORM FACILITY DETAILS
34. MISCELLANEOUS DETAILS
35. ~~CITY OF SPOKANE DETAILS~~
36. SIGNING, STRIPING & ILLUMINATION PLAN

The design improvements shown in this set of plans and calculations conform to the applicable editions of the Spokane County Standards for Road and Sewer Construction and the Spokane County Guidelines for Storm Water Management. The Spokane County Engineer has approved all design deviations. I approve these plans for construction.

HOPPER DENNIS JELLISON PLLC
ENGINEERS & PLANNERS
314 W. 13th Street
Vancouver, WA 98660-3027
(360) 695-3400
(503) 820-4005
FAX (360) 695-8767
Internet www.hdjengineers.com

12-17-04
EXPIRES FEB 14, 2005

1/36

REVISIONS								RECORD								GRADE ESTABLISHMENTS								
DATE	BY	PROJ	DESCRIPTION	DATE	BY	PROJ	C.F.N. U.S.N.	FROM	TO	COUNCIL ACCEPT DATE	FROM	TO	ORD. NO.	DATE	FILE NO.

NAVD88 = (OLD CSM ELEV) + (13.13) AS OF JANUARY, 2000 USE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

BENCH MARK LOCATION: A WSDOT 3" BRASS DISK IN MONUMENT CASE LOCATED IN THE INTX OF GEIGER RD & HAYFORD RD. ELEV IS 2408.69 NAVD29 DATUM

ELEVATION: 2412.29
DRW NO.:

NAVD88 DATUM

BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

SCALE: HORIZONTAL 1"=30'; VERTICAL PROFILE ONLY N/A

SPOKANE

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB.1995	
LAST PROJECT BY	DATES
DRAWN: CTS	11/02
REVISED:	
CHECKED: TGJ	
APPROVED: TGL	

PROJECT NAME: BIG SKY – PHASE 2

SHEET LIMITS: COVER SHEET

PROJECT LIMITS: HALLET ROAD & THOMAS MALLEN ROAD

CALL BEFORE YOU DIG 456-8000

TYPE OF IMPROVEMENT:

CITY PROJECT NUMBER | CITY PLAN NUMBER

DRC

P-1918A Eng Prel Drainage

PROT02/002.DWG REV 11/27/2002

E:\projects\2183\Cad\Final\eng\Prelim\PHASE-2\183cv01.dwg, 12/16/2004 2:33:39 PM, cts

SITE GRADING

The portion of the site slated for construction under these construction documents is to be mowed and stripped to remove all grass, roots, organic soil, and construction fill debris prior to the beginning of any grading operations. Strippings shall be stockpiled for later use as final lift ground cover.

Following stripping and grubbing, the exposed soils shall be proof rolled to reveal weak, organic, or other unsuitable soils. Unsuitable soils shall be excavated to firm ground.

Exposed subgrade soils on areas to receive structural fill should be scarified to a depth of 12" and be recompacted with structural fill.

Fill areas shall be structurally filled with surplus suitable materials from cut areas or suitable imported materials. Select materials shall be placed in fill areas in lifts not to exceed 8". Each lift shall be compacted to 95 % of the maximum dry density. Fill materials should be free of organics, and rock fragments in excess of 6" in dimension.

Compaction testing shall be done in accordance with the AASHTO T-99.

At the end of the grading operation, the stockpiled strippings shall be distributed on the landscape areas in a compacted depth not to exceed 12".

All deleterious materials generated during site grading and strippings not utilized in the final ground cover operation shall be hauled from Phase 2 to certain locations in Phase 3.

All surfaces shall be graded smooth and free of irregularities that might accumulate surface water.

Maximum slopes on site at the completion of grading shall not exceed 2 horizontal: 1 vertical (50 %).

The contractor shall employ a licensed surveyor to verify that the cross-gutter forms are at the correct plane grade prior to concrete placement. The cross-gutters shall be constructed prior to paving, and the pavement shall then match the edge of concrete gutter.

STORM SEWERS

Materials for storm sewer inlet laterals & pipe shall be PVC pipe or approved equal. Contractor to meet all pressure testing requirements of Spokane County.

Trench excavation shall meet the requirements of Section 7-08.3(1).

Storm sewer pipe bedding and backfill shall meet the requirements of Section 7-08.3(3). Backfill material shall be compacted to 95% of the maximum relative density.

Trench backfill shall meet the requirements of Section 7-08.3(3).

All roof water shall be routed and splash blocked to landscape areas.

SANITARY SEWER CONSTRUCTION NOTES

Materials for sanitary sewer pipe shall be Solid Wall PVC Sanitary Sewer Pipe unless otherwise specified.

Prior to backfilling sewer service lateral ends, the Contractor shall notify the project land surveyor in a timely manner so that construction "As-Built" information may be gathered. If the Contractor backfills prior to the gathering of required information, the Contractor shall be required to expose the ends of service laterals.

Backfill for sanitary sewer pipe shall be as required by the City of Spokane utility permit.

Sanitary sewer laterals shall be 4" in size, installed at a minimum slope of 0.02 ft/ft unless otherwise specified on the plan.

Sanitary Sewer laterals shall be extended to 16' behind the R/W line and the contractor shall mark lateral ends with a 10' - 2" x 4" board, tracing wire and mark the depth of the lateral on the 2x4 board.

Any sanitary service lateral that crosses over the water main shall be constructed per detail on sheet 34.

WATER SYSTEM CONSTRUCTION NOTES

Pipe backfill for water pipe shall be as required by the City of Spokane Standards.

Contractor to maintain a minimum 10' horizontal and 18" vertical separation between all existing and proposed water and sewer lines.

City forces shall make all connections to existing mains. Contractor to pay all costs.

All utility trench bedding shall be in conformance with City of Spokane Standard Plan B-18C.

All valves, fittings, etc., shall be ductile iron. Water pipe shall be ductile iron, Class 50.

Deflections at pipe joints shall not exceed 75 % of maximum permissible deflection per listed deflection table on sheet 34 or manufacturers recommended deflection, which ever is less.

Water lines shall be restrained per table on sheet 35.

Contractor to coordinate with City of Spokane Water and Hydroelectric Services to shut off necessary water lines for construction and maintenance service as necessary. Install 2-inch blowoff assembly at end of each waterline per WSDOT Plan B-21 for flushing and testing.

Backfill to be installed per WSDOT Standard Specifications. Lifts to be 8 inches maximum and compacted in accordance with City of Spokane Standard Plan B-18D. Provide marking tape at mid-depth of backfill.

MONUMENTATION

The contractor shall coordinate with the surveyor so that centerline monuments are set as required by Spokane County. Monuments shall be set at curvature points and street intersections and shall conform to Spokane County Standard Plan A-14.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: 2193 A
DATE ACCEPTED: 11/4/03
ACCEPTANCE EXPIRES: 11/4/03
PROJECT LANE MILES PUBLIC: 1.09
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

PROJECT APPLICANT

Thomas Arrowsmith 12/9/03
ARO CONSTRUCTION Date

HOPPER DENNIS JELLISON P.L.L.C.
ENGINEERS & PLANNERS
314 W. 15th Street
Vancouver, WA 98660-2921
(360) 992-2440
(503) 554-4080
FAX (360) 695-8767
Internet: www.hdjengineers.com

THOMAS G. LONGSTAFF — STATE OF WASHINGTON — 19311 — REGISTERED PROFESSIONAL ENGINEER
12-17-04
EXPIRES: FEB 14, 2006

2/36

PROJECT NAME: BIG SKY – PHASE 2

SHEET LIMITS: GENERAL NOTES

TYPE OF IMPROVEMENT: CITY PROJECT NUMBER | CITY PLAN NUMBER | ERC

PROJECT LIMITS: HALLET ROAD & THOMAS MALLEN ROAD

CALL BEFORE YOU DIG 456-8000

P/9/18/A Eng Prod Drawings

DATE	BY	PROJ	DESCRIPTION	DATE	BY	PROJ	E.F.N. - U.S.N.	FROM	TO	COUNCIL ACCEPT DATE	FROM	TO	ORD. NO.	DATE	FILE NO.
REVISIONS				RECORD							GRADE ESTABLISHMENTS				

NAVD88 = (OLD CITY ELEV.) - (3.13) AS OF JANUARY, 2003 (US NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

BENCH MARK LOCATION: A WSDOT 3" BRASS DISK IN MONUMENT CASE LOCATED IN THE INTX OF GEIGER RD & HALTOPEO RD. ELEV. IS 2408.49 NAVD29 DATUM

NAVD88 ELEV: 2412.29

CBM NO.:

BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, REDUCE SCALE ACCORDINGLY.

HORIZONTAL PLANIMETRIC: N/A
VERTICAL PROFILE ONLY: N/A

SCALE

CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB1995		
LAST PROJECT BY:		DATES
DRAWN:	CDS	11/03
REVISED:		
CHECKED:	TGJ	
APPROVED:	TGL	

CITY OF SPOKANE

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

PROTO2002.DWG REV. 11/27/2002

E:\projects\2193\Civil\Finishing\Proof\PHASE-2\2193202.dwg, 12/16/2004 2:34:24 PM, cts

PROJECT DESCRIPTION:
Development of 110 acre site into 257 single family residential lots, with paved roads & designated open spaces. A 100 foot wide Avista utility easement crosses through the site in an east/west orientation, connecting to an Inland Power substation located at the east side of the project site adjacent to Thomas Mallen Road. There is a category 4 wetland adjacent to the NE portion of the site along Hallet Road.

EXISTING VEGETAION:
The majority of the site is covered in oats.

EXISTING WATER BODIES:
There are currently no existing water bodies on the site.

ON-SITE SOILS:
The top layer consists of a till (soil) zone of organic silt with an average thickness of 15 inches. Over the majority of the site, the (till) zone is under lain by a layer of medium stiff to hard silt to silty clay that ranged from 1 foot to over 10 feet. A 1 to 3 foot thick, medium dense to dense gravel layer is commonly present above 5 feet below ground surface over most of the site.

DESCRIPTION OF ESC MEASURES:

Approval of the ESC plan does not constitute approval of any of the proposed road, storm drainage, grading or utility design elements shown on the ESC plan.

An Erosion/Sedimentation Control (ESC) plan is required for this project. Implementation of the ESC plan, and construction, maintenance, and upgrading 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.

The erosion/sedimentation control measures shown are the minimum requirements for the anticipated site conditions. The implementation of these ESC plans and the construction, maintenance, replacement, and upgrading of these ESC facilities is the responsibility of the contractor until all construction is completed and approved, and vegetation is established.

The ESC facilities show on this plan must be constructed in conjunction with all clearing and grading activities, and in such a manner as to ensure that sediment and sediment laden water do not enter the drainage system, roadways, or violate applicable water and air quality standards.

Care should be taken to not disturb more area than needed for construction requirements. All disturbed soils surfaces are to be stabilized. Stabilization of disturbed soil areas will consist of: hydroseeding or handseeding, mulching, placing of erosion control blankets or plastic in landscaping soil areas. It will also consist of paving and concrete work in driving, parking and sidewalk areas. All seeded areas are to be fertilized, watered and maintained to enhance the immediate regrowth of vegetation.

Geotextile fabric 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 threat of sediment deposition into the drainage system is mitigated.

Material stockpiles are to be protected from precipitation by the following means:

Temporary - cover piles with tarps or plastic sheeting weighted with tires, lumber or concrete blocks.

Permanent - cover piles with tarps or plastic, or reseed. Perimeter areas around piles are to be surrounded with erosion control filter fabric fences until soils surface is stabilized with reseeding.

The ESC facilities shall be inspected daily by the contractor and maintained as necessary to ensure continuous functioning. Inspection and maintenance shall include, but not be limited to:

Verifying that all areas are graded such that all runoff is directed to a sedimentation trap facility before discharging to surface.

Removal of trapped silts at silt barriers, silt traps, or points of accumulation.

Additional protective measures, as required, due to job site conditions.

The contractor/developer is responsible for installing Rock Construction Entries at any and all locations used to enter or exit the project site.

Stabilized construction entrances installed at the beginning of construction and maintained for the duration of the project. Monitoring of vehicles leaving the site to minimize transmission of loose soils to the public roadways.

If sediment is transported onto a road surface, the surface is to be cleaned thoroughly at the end of each day.

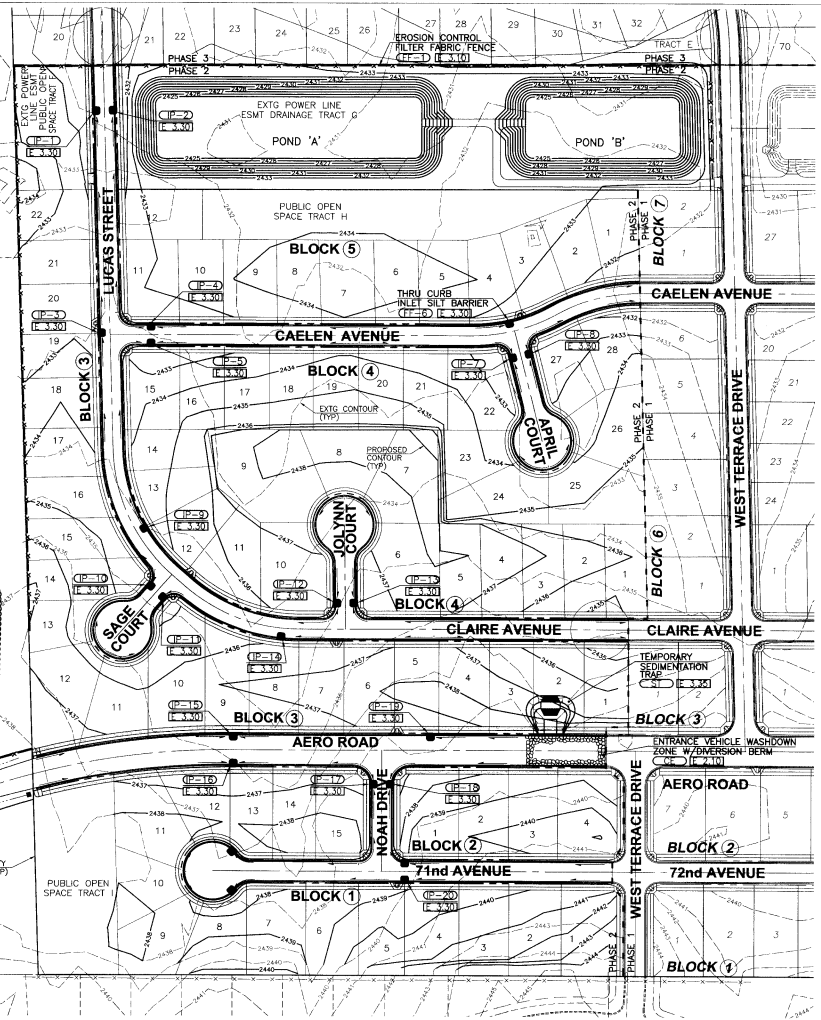
The ESC facilities on inactive sites shall be inspected and maintained a minimum of once a month or within the 24 hours following a storm event.

At no time shall more than one foot of sediment be allowed to accumulate within a trapped catch basin. All catch basins and conveyance lines shall be cleaned prior to paving. The cleaning operation shall not flush sediment laden water into the downstream system.

This sedimentation and erosion control plan is intended to be utilized as a guide to control the transportation of loose soils from the property that cause water quality and nuisance problems outside of the construction area.

Depending upon the Contractor's construction practices, some portions of the proposed erosion control plan may be varied according to the job site condition. All changes to the plan must be reviewed and approved by the Engineer prior to adjustment.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # 01-19-A
DATE ACCEPTED: 11-19-01
ACCEPTANCE EXPIRES: 11-19-03
PROJECT LANE MILES PUBLIC: 1.06
PROJECT LANE MILES PRIVATE: 0
RECORD DRAWINGS, "AS-BUILT" SP ARE REQUIRED PRIOR TO FINAL ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED: (509) 477-3600
NOTIFY PERMIT ENGINEERS (5 BUSINESS DAYS) PRIOR TO CONSTRUCTION



VICINITY MAP
NOT TO SCALE

PROPERTY OWNER:
Aho Construction
5512 NE 109th Court, Suite 101
Vancouver, WA 98662
(360)254-0493 (Ph)
(360)254-6998 (Fax)

PERMIT APPLICANT:
Scott's Excavating
10403 W Westbow Road
Spokane, WA 99224
(509)458-7548 (Ph)
(509)458-7616 (Fax)

PROJECT SITE CONTACT:
Craig Owens
(509)458-7548 (Ph)
(509)458-7616 (Fax)

PROJECT ADDRESS:
Southwest Quadrant of the intersection of Hallet Road & Thomas Mallen Road.

LEGAL DESCRIPTION:
NE 1/4 Section 7, Township 24 North, Range 42 East, W.M.

PLANS PREPARED BY:
Travis G. Johnson, E.I.T.

I, Travis G. Johnson E.I.T. certify that this Erosion Control Plan meets the ESC requirements as listed in Chapter 4.5 of the Guidelines for Storm Water Management of Spokane County Public Works.

PROJECT APPLICANT
AHO CONSTRUCTION — Date 12/17/04

HOPPER DENNIS JELLISON P.L.L.C.
ENGINEERS & PLANNERS
314 W. 19th Street, Vancouver, WA 98660-2927
(360) 696-0857
(503) 850-4685
FAX (360) 695-8787
Internet: www.hdjengineers.com

12-17-04
EXPIRES: FEB 14, 2006

3/36

DATE	BY	PROJ	DESCRIPTION	DATE	BY	PROJ	C.F.N. - U.S.N.	FROM	TO	COUNCIL ACCEPT DATE	FROM	TO	ORD. NO.	DATE	FILE NO.
REVISIONS				RECORD						GRADE ESTABLISHMENTS					

NAVD88 = (OLD CITY ELEV) + (2.510) AS OF JANUARY, 2003 USE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
BENCH MARK LOCATION: A WSDOT 3" BRASS DISK IN MONUMENT CASE LOCATED IN THE INTX OF GEIGER RD & HATFORD RD ELEV = 2408.49 NAVD88 DATUM
NAVD88 2412.29
PROJ. CBM NO.

NAVD88 DATUM

DUE TO CHG. FROM ON ORIGINAL DRAWING:
1. NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
HORIZONTAL 1" = 80'
VERTICAL 1" = 8'
PROFILE ONLY: N/A
SCALE

SPOKANE

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB.1995

	LAST PROJECT BY	DATE
DRAWN:	CTS	11/03
REVISED:		
CHECKED:	TGJ	
APPROVED:	TGJ	

PROJECT NAME: BIG SKY - PHASE 2
SHEET LIMITS: EROSION CONTROL PLAN
TYPE OF IMPROVEMENT: EROSION
CITY PROJECT NUMBER
CITY PLAN NUMBER
PROJECT LIMITS: HALLET ROAD & THOMAS MALLEN ROAD
ENG.
CALL BEFORE YOU DIG 456-8000

P-19178A Eng Road Drainage

PROTO2002.DWG; REV 11/27/2002

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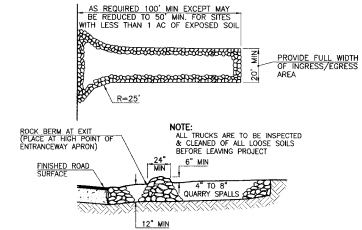
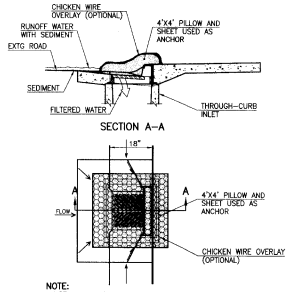


NOTE:
ALL TRUCKS ARE TO BE INSPECTED & CLEANED OF ALL LOOSE SOILS BEFORE LEAVING PROJECT

1. EXCAVATE MINIMUM OF 12" OF EXISTING SOILS.
2. PLACE MINIMUM OF 12" OF 3" MINUS CRUSHED ROCK.
3. CONSTRUCT ROCK BERM ALONG TRANSITION POINT TO FINISH ROAD SURFACES. DIVERT RUNOFF TO ONSITE AREA.

ENTRANCEWAY VEHICLE WASHDOWN ZONE W/DIVERSION BERM

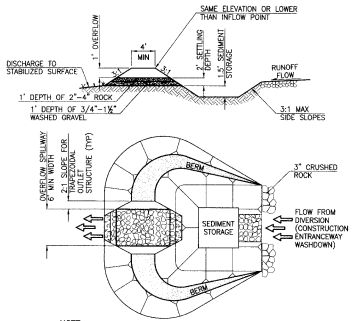
E-2.10 CE NTS



NOTE:
USE 15-16 LBS OF WOOD CHIP. FILTER INSIDE POLYESTER FABRIC (ASTM-D191 OR EQUAL) PILLOW.

THRU CURB INLET SILT BARRIER

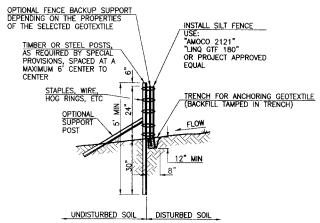
E-3.30 IP NTS



NOTE:
SEDIMENT STORAGE MINIMUM VOLUME SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION, UNTIL PAVING & SOIL STABILIZATION HAVE BEEN ACCOMPLISHED

TEMPORARY SEDIMENTATION TRAP

E-3.35 ST NTS



EROSION CONTROL FILTER FABRIC FENCE

E-3.10 FF NTS

PROJECT APPLICANT

AND CONSTRUCTION Date

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-9918A
DATE ACCEPTED: 11/15/04
ACCEPTANCE EXPIRES: 11/15/07
PROJECT LANE MILES PUBLIC: 1.09
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) 477-3623
NOTIFY PERMIT INSPECTOR 24 HOURS BEFORE WORK PRIOR TO CONSTRUCTION

HOPPER DENNIS JELLISON PLLC
ENGINEERS & PLANNERS
104 W. 13th Street
Vancouver, WA 98660-2927
(360) 695-3448
(503) 724-4005
FAX (360) 695-8767
Internet: www.hdjengineers.com

STATE OF WASHINGTON — JAMES A. DENNIS — 12-17-04 — EXPIRES: FEB 14, 2006 — PROFESSIONAL ENGINEER

4/36

PROJECT NAME: BIG SKY – PHASE 2

SHEET LIMITS: EROSION CONTROL DETAILS

TYPE OF IMPROVEMENT:
CITY PROJECT NUMBER | CITY PLAN NUMBER | EIN:

PROJECT LIMITS: HALLET ROAD & THOMAS MALLEN ROAD

CALL BEFORE YOU DIG 456-8000

P-9918A Eng Prel Drainage

DATE	BY	PROJ.	DESCRIPTION	DATE	BY	PROJ.	F.F.N.	U.I.N.	FROM	TO	COUNCIL ACCEPT DATE	FROM	TO	ORD. NO.	DATE	FILE NO.
REVISIONS				RECORD								GRADE ESTABLISHMENTS				

NAVD88 – (OLD CBM ELEV.) – (1.518) AS OF JANUARY, 2000 USE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
BENCH MARK LOCATION: A WSDOT 3" BRASS DISK IN MONUMENT CASE LOCATED IN THE INTX OF GEIGER RD & HAYFORD RD. ELEV IS 2408.49' NAVD29 DATUM.
REVISED ELEV: 2412.29
BM NO.: NAVD88 DATUM

BAR IS ONE INCH ON ORIGINAL DRAWING — IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

SCALE: HORIZONTAL PLAN/PROFILE N/A; VERTICAL N/A; PROFILE ONLY N/A

		DATES
CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB.1995		
LAST PROJECT BY		
DRAWN:	CTS	11/03
REVISED:		
CHECKED:	TGL	
APPROVED:	TGL	

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

PROT02002.DWG REV 11/21/2002

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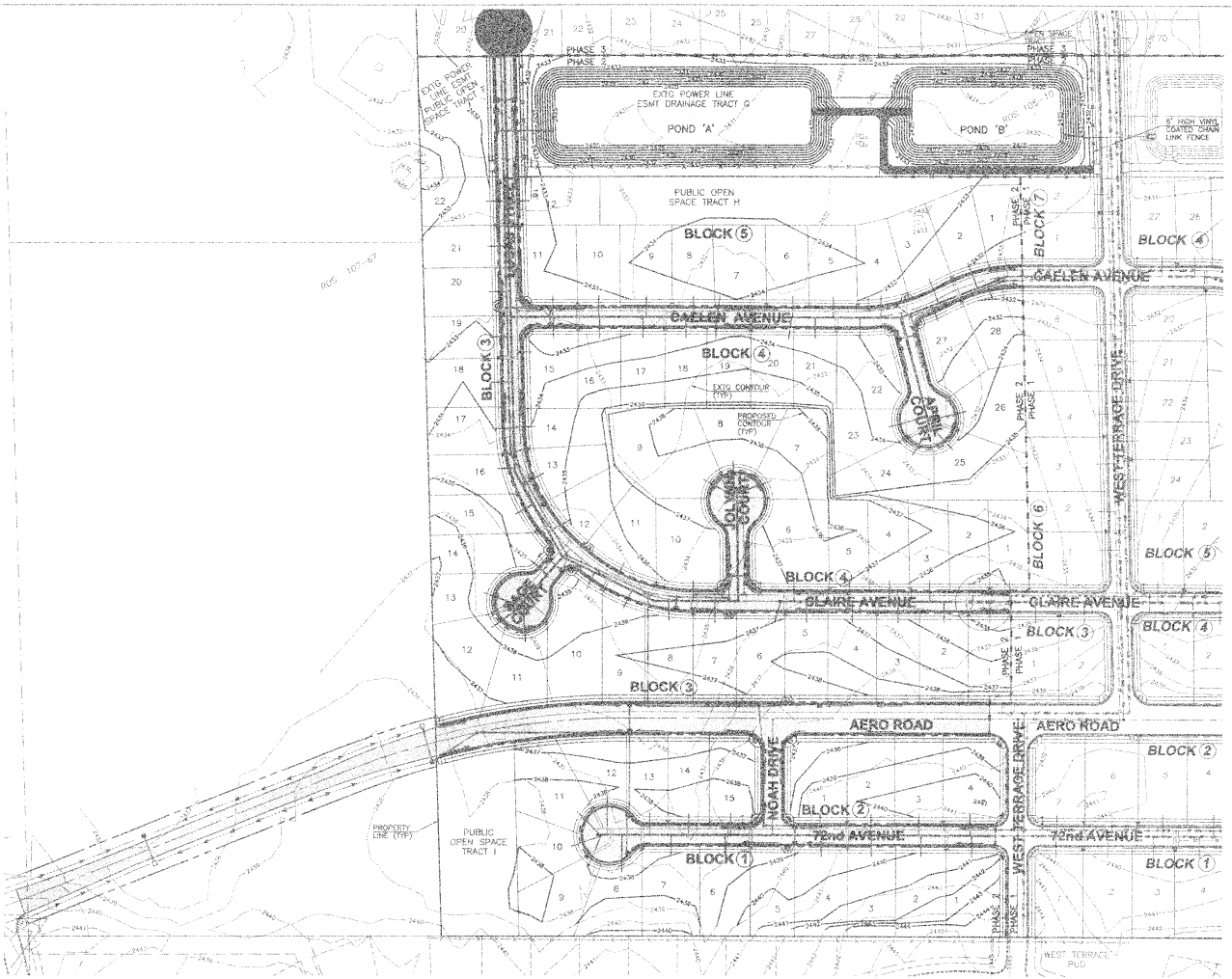

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # P-1918A
DATE ACCEPTED: 11/19/04
ACCEPTANCE EXPIRES: 11/19/06
PROJECT LANE MILES PUBLIC: 1.54
PROJECT LANE MILES PRIVATE: 0.0
COMPLETED AND DOCUMENTATION AND CERTIFIED RECORD DRAWINGS YOUR ALTP ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND BEFORE ISSUANCE OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED: (509) 477-3600
NOTE: PERMIT ENGINEER IS BINDING DATE PRIOR TO CONSTRUCTION

HOPPER DENNIS JELLISON
ENGINEERS & PLANNERS
Tel 509 326-5200
Telecopier 509 326-5207
(509) 456-0965
(509) 534-0267
(509) 535-1813
Email: mail@hdjplans.com

EXTG LINETYPE LEGEND

EXTG SANITARY SEWER PIPE	SA
EXTG STORM WATER PIPE	ST
EXTG WATER PIPE	W

PROJECT APPLICANT
MGT CONSTRUCTION

12-7-04

EXPIRES FEB 14, 2006

5/36

DATE	BY	APPV	DESCRIPTION	DATE	BY	APPV	ETA	ULS	PROJ	TO
REVISIONS				RECORD						

CHANGE #/SUPP DATE	FROM	TO	ORIG. NO	DATE	TEC NO
GRADE ESTABLISHMENTS					

NAVD88 DATUM

NO CHAIN — (SLU LINE REF) (1/2/3) — AS OF JANUARY, 2002 LOW NORTH NATIONAL VERTICAL DATUM OF 1988 (NAVD88)
BENCH MARK LOCATION: A WSDOT 3" BRASS DISK IN MONUMENT CASE LOCATED IN THE INTX OF GOIDER RD & HALFORD RD ELEV = 2408.452 NAVD88 DATUM
NUMBER 2412.29
DATE
ITEM NO.
SLIM 3 ON 2004 UA
CHANGE
SUPPLEMENTAL
ORIGINAL
ELEV. 2412.29 NAVD88
(ELEV. 2412.29 NGVD29)
(ELEV. 2412.29 NAVD88)

SCALE
HORIZONTAL 1" = 80'
VERTICAL
PROFILE
PROFILE ON 1"

CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB/1994
LAST PROJECT DT: 2/4/04
DRAWN: CTG 11/2/03
REVISED:
CHECKED: TRC
APPROVED: TRC

SPOKANE

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6500

PROJECT NAME: BIG SKY -- PHASE 2
SHEET LIMITS: GRADING PLAN
PROJECT LIMITS: HALLET ROAD & THOMAS MALLEN ROAD
CALL BEFORE YOU DIG 456-8000

TYPE OF IMPROVEMENT	EROSION
CITY PROJECT NUMBER	CITY PLAN NUMBER
BRL	

P-1918A Eng Road-Drainage

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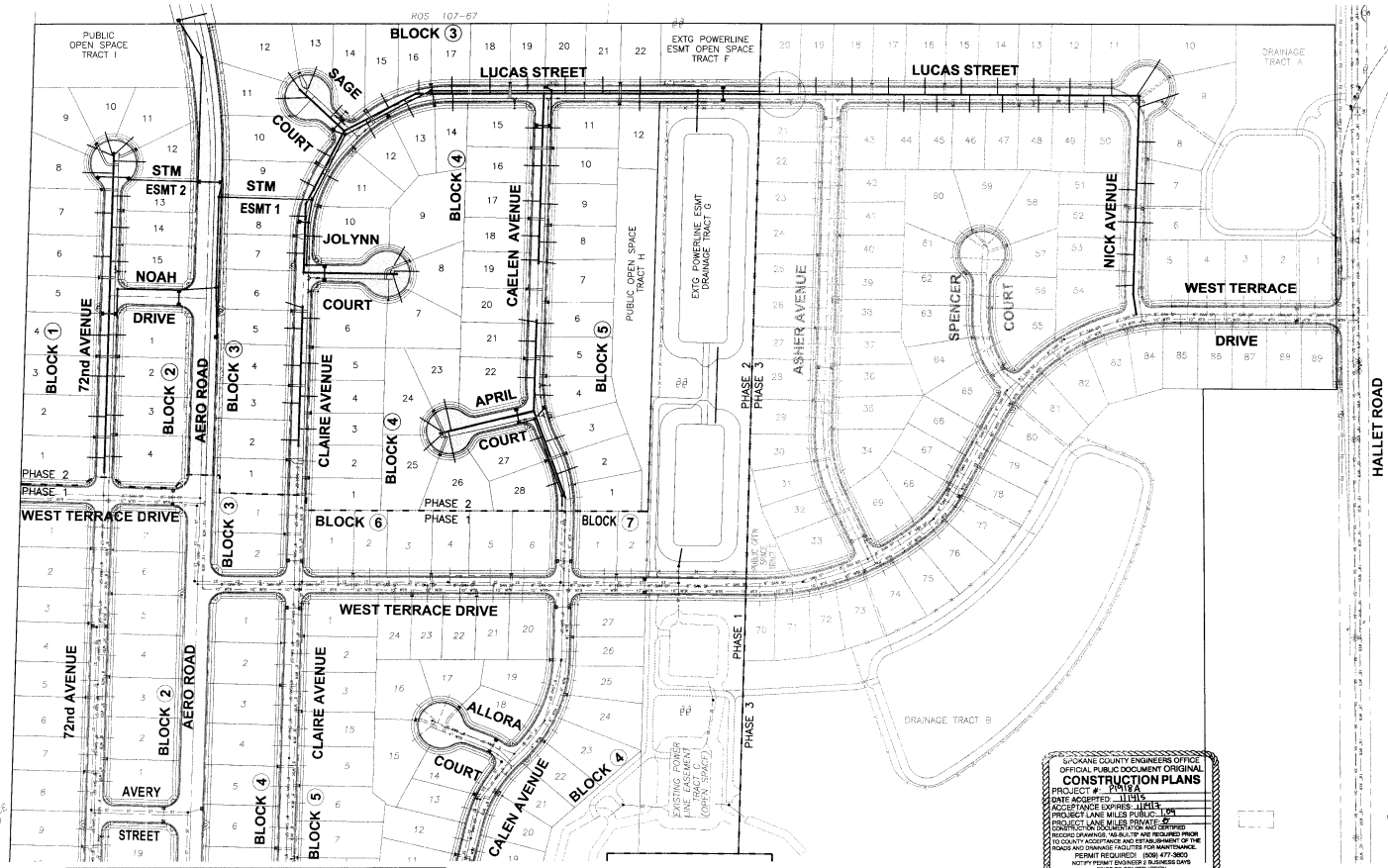
PROTOCOL/TO DWG: REV 11/27/2002



LINETYPE LEGEND	SYMBOL LEGEND
EXTG SANITARY SEWER PIPE	
EXTG 4" WATER PIPE	
EXTG 8" WATER PIPE	
EXTG 10" WATER PIPE	
EXTG 18" WATER PIPE	
EXTG 24" WATER PIPE	
EXTG ELECTRIC LINE	
EXTG TELEPHONE LINE	
PROPOSED CENTERLINE	
PROPOSED RIGHT-OF-WAY	
PROPOSED SANITARY SEWER PIPE	
PROPOSED SANITARY LATERAL	
PROPOSED STORM PIPE	
PROPOSED WATER PIPE	
PROPOSED WATER LATERAL	
FUTURE WATER PIPE	
FUTURE SANITARY SEWER PIPE	
	PROPOSED CATCH BASIN
	PROPOSED STORM MANHOLE
	PROPOSED SANITARY MANHOLE
	PROPOSED WATER METER
	PROPOSED VALVE
	PROPOSED FIRE HYDRANT

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # P-1918A
DATE ACCEPTED: 11/14/5
ACCEPTANCE EXPIRES: 11/14/13
PROJECT LANE MILES PUBLIC: 1.04
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILT" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED: (509) 477-3620
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

PROJECT APPLICANT
AHO CONSTRUCTION
DATE 12/12/04

HOPPER DENNIS JELLISON PLLC
ENGINEERS & PLANNERS
114 W. 11th Street
Vancouver, WA 98660-3507
(360) 695-3446
(503) 224-4860
FAX (360) 695-8767
Internet: www.hopperjellison.com

STATE OF WASHINGTON
THOMAS G. JELLISON
REGISTERED PROFESSIONAL ENGINEER
12-17-04
EXPIRES: FEB 14, 2006

6/36

DATE	BY	PROJ	DESCRIPTION	DATE	BY	PROJ	E.F.N.	U.L.N.	FROM	TO
REVISIONS										

RECORD					
COUNCIL ACCEPT DATE	FROM	TO	ORD. NO.	DATE	FILE NO.
GRADE ESTABLISHMENTS					

NAVD88 DATUM

NAVD88 = (OLD DEM ELEV) - 0.5133 AS OF JANUARY, 2006 USE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

BENCH MARK LOCATION: A WSDOT 3" BRASS DISK IN MONUMENT CASE LOCATED IN THE INTX OF GEIGER RD & HAYFORD RD. ELEV = 2408.49 NAVD29 DATUM
NAVD88 ELEV: 2412.29
CITY DEM NO:

BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

SCALE
HORIZONTAL: 1" = 100'
VERTICAL: N/A
PROFILE ONLY: N/A

CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB.1995

LAST PROJECT BY:	DATES:
DRAWN:	CDS
REVISED:	
CHECKED:	TGJ
APPROVED:	TGJ

LEGEND FOR SPOKANE
CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

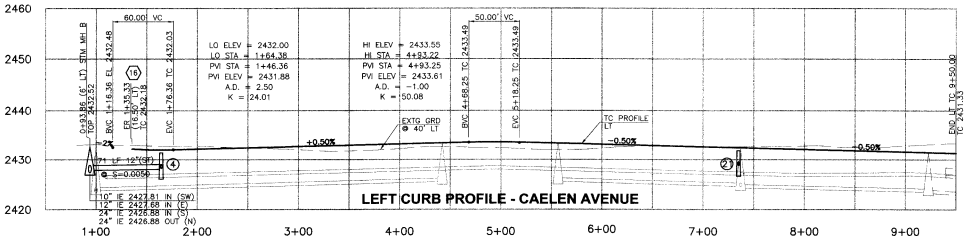
PROJECT NAME: BIG SKY – PHASE 2
SHEET LIST TS: MASTER UTILITY PLAN
PROJECT LIST TS: HALLET ROAD & THOMAS MALLEN ROAD
TYPE OF IMPROVEMENT:
CITY PROJECT NUMBER
CITY PLAN NUMBER
EFN:

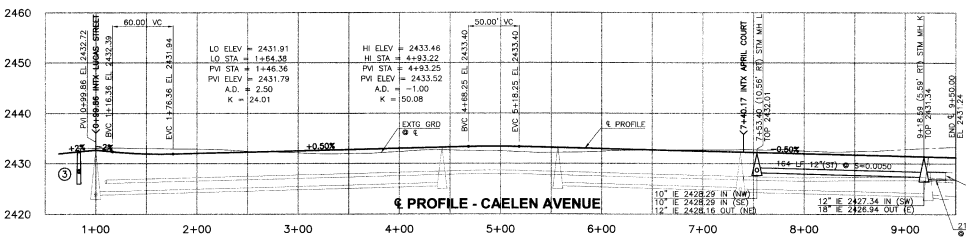
CALL BEFORE YOU DIG 456-8000

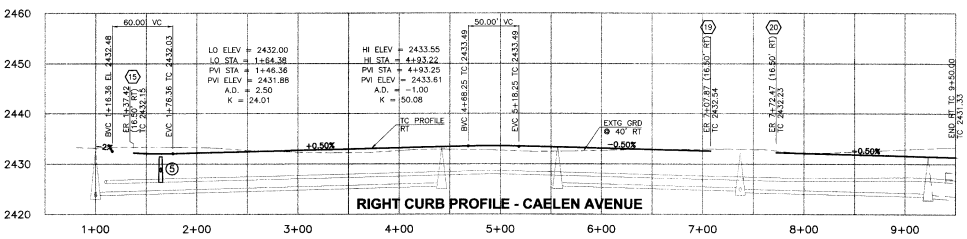
P-1918A Eng Prel Drainage

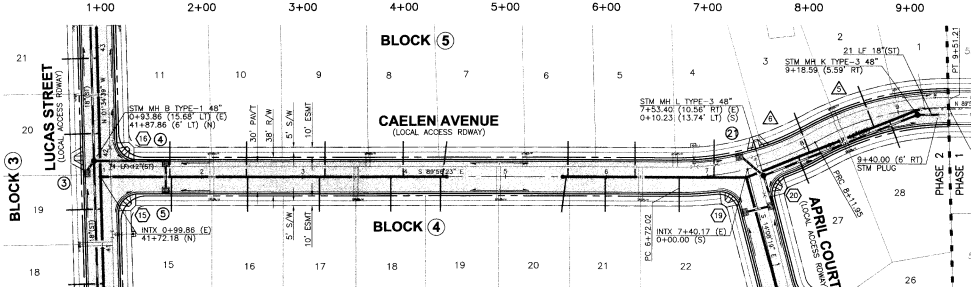
E:\projects\2185\Civil\Final\dwg\Proj\PHASE 2\1935206.dwg, 12/13/2004 10:02:28 AM, .dle

PROT02002.DWG REV 11/27/2002









SPOKANE COUNTY ENGINEERING OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: 2191.8A
DATE ACCEPTED: 11/14/15
ACCEPTANCE EXPIRES: 11/14/18
PROJECT LANE MILES PUBLIC: 1.04
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, "AS-BUILT" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3033
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION.

CENTERLINE CURVE DATA

No.	Δ	R	L	T
1	29°09'15"	275	139.93	71.61
2	28°45'17"	275	138.01	70.49

CURB RETURN DATA

No.	Δ	R	L	ELEVATION* (CLOCKWISE)				
				ER	1/4PT	1/2PT	3/4PT	ER
15	91°36'16"	20	31.99	2433.00	2432.88	2432.60	2432.31	2432.15
16	88°21'44"	20	30.84	2432.18	2432.30	2432.41	2432.53	2432.64
19	83°16'15"	20	29.07	2432.54	2432.43	2432.18	2431.93	2431.82
20	83°16'15"	20	29.07	2431.82	2431.90	2432.06	2432.21	2432.23

*ELEVATIONS DO NOT REFLECT DEPRESSIONS FOR CURB RAMPS

STORMWATER CATCH BASIN TABLE

No.	LOCATION	TYPE	RIM ELEV	OUTLET ELEV	INLET ELEV	OUTLET SIZE	LATERAL SLOPE	LATERAL LENGTH
3	0+83.36 (3.650' LT)	**1	2432.19	2428.04	-	10 in.	1.0%	16 ft.
4	1+64.38 (16.50' LT)	*1	2431.40	2428.03	2428.16	12 in.	0.5%	71 ft.
5	1+64.38 (16.50' RT)	*1	2431.40	2428.49	-	10 in.	1.0%	33 ft.
2	7+35.00 (16.50' LT)	**1	2431.80	2428.62	-	10 in.	1.0%	33 ft.

*CB TO HAVE THROUGH CURB INLET FRAME. SEE DETAIL SHT 34
**SEE SPOKANE COUNTY STANDARD B-7

EXTG LINETYPE LEGEND

EXTG SANITARY SEWER PIPE	8" Man SP — 8" San SP
EXTG STORM WATER PIPE	12" — 12" — 12"
EXTG WATER PIPE	6" WM — 6" WM

PROJECT APPLICANT

AND CONSTRUCTION Date 12/9/04

HOPPER DENNIS JELLISON PLLC
ENGINEERS & PLANNERS
314 W. 13th Street
Vancouver, WA 98660-2927
(360) 695-4691
(360) 695-4692
FAX (360) 695-8767
hdjeng@hdjeng.com

THOMAS G. LOWE — STATE OF WASHINGTON — 18893 — REGISTERED PROFESSIONAL ENGINEER
12-17-04
EXPIRES: FEB 14, 2006

7/36

PROJECT NAME:	BIG SKY – PHASE 2	
SHEET LIMITS:	CAELEN AVENUE 0+00.00 TO 9+50.00	TYPE OF IMPROVEMENT: STREET & STORM
		CITY PROJECT NUMBER / CITY PLAN NUMBER
PROJECT LIMITS:	HALLET ROAD & THOMAS MALLEN ROAD	TPN:

CALL BEFORE YOU DIG 456-8000

P-9188 Eng Prel Drainage

DATE	BY	PROJ	DESCRIPTION	DATE	BY	PROJ	E.F.N.	U.S.N.	FROM	TO	COUNCIL ACCEPT DATE	FROM	TO	ORD. NO.	DATE	FILE NO.
REVISIONS				RECORD								GRADE ESTABLISHMENTS				

NAVD88 = (OLD DRM ELEV) - (3.13) AS OF JANUARY, 2000 USE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
BENCH MARK LOCATION: A WSDOT 3" BRASS DISK IN MONUMENT CASE LOCATED IN THE INTX OF GEIGER RD & HAYFORD RD. ELEV IS 2408.49 NAVD29 DATUM
ELEVATION: 2412.29
DATE: FEB 1991
CBM NO.
NAVD88 DATUM
BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
HORIZONTAL: 1"=50' VERTICAL: 1"=10' PROFILE ONLY
SCALE

CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB.1995		
LAST PRODUCT MT.	DATE:	
DRAWN:	CDS	7/20
REVISED:		
CHECKED:	TGL	7/20
APPROVED:	TGL	7/20

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

PROTO2002.DWG REV 11/27/2002

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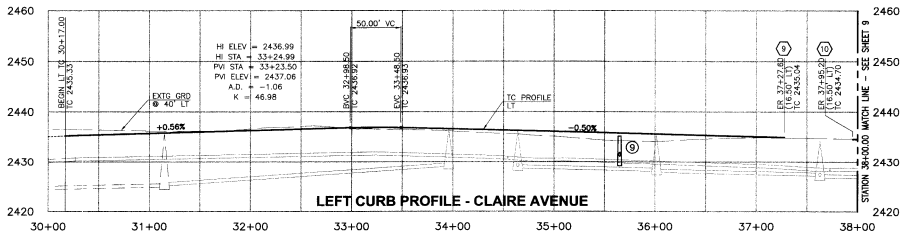

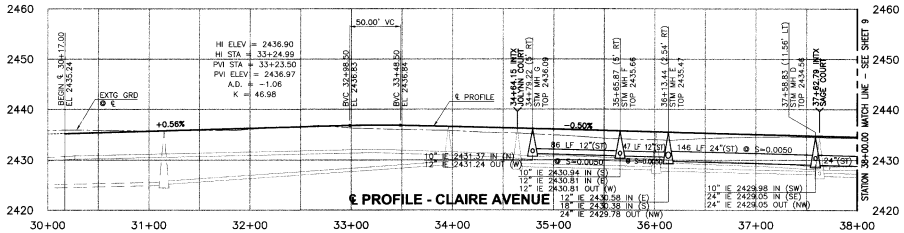

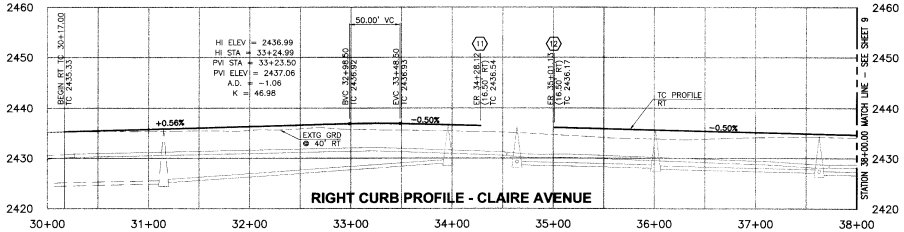

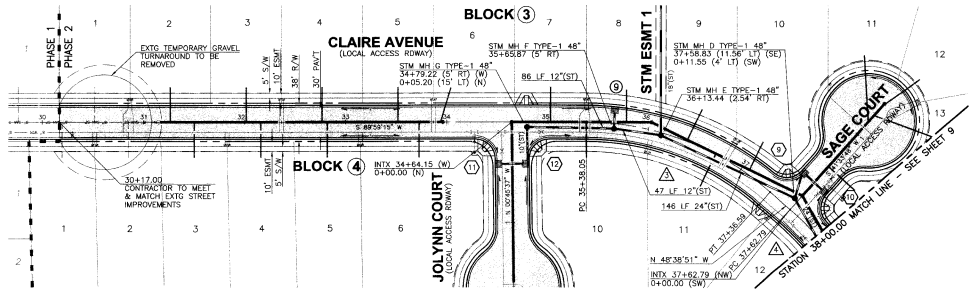

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # 2018A
DATE ACCEPTED: 11/14/13
ACCEPTANCE EXPIRES: 11/14/13
PROJECT LANE MILES PUBLIC: 1.24
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION MUST BE COMPLETED AND RECORD DRAWINGS AS-BUILTS ARE RECEIVED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3600
NOTIFY PERMIT ENGINEER 24 HOURS PRIOR TO CONSTRUCTION

CENTERLINE CURVE DATA

No.	Δ	R	L	T
3	41°21'54"	275	198.54	103.82
4	47°04'12"	275	225.92	119.77

CURB RETURN DATA

No.	Δ	R	L	ELEVATION* (CLOCKWISE) ER	1/4PT	1/2PT	3/4PT	ER
9	87°55'22"	20	30.69	2434.34	2434.43	2434.67	2434.93	2435.04
10	83°27'30"	20	29.13	2434.70	2434.79	2434.54	2434.42	2434.34
11	89°15'08"	20	31.15	2436.54	2436.43	2436.16	2435.90	2435.79
12	90°44'52"	20	31.68	2435.79	2435.86	2436.01	2436.09	2436.17

*ELEVATIONS DO NOT REFLECT DEPRESSIONS FOR CURB RAMPS

STORMWATER CATCH BASIN TABLE

No.	LOCATION	TYPE	RIM ELEV	OUTLET ELEV	INLET ELEV	OUTLET SIZE	LATERAL SLOPE	LATERAL LENGTH
9	35+65.00 (16.50' LT)	**1	2435.25	2431.16	-	10 in.	1.0%	22 ft.

**SEE SPOKANE COUNTY STANDARD B-7

EXTG LINETYPE LEGEND

EXTG SANITARY SEWER PIPE	8" SAN SP ——— 8" SAN SP ———
EXTG STORM WATER PIPE	12" ——— 12" ———
EXTG WATER PIPE	8" WTR ——— 8" WTR ———

PROJECT APPLICANT

AND CONSTRUCTION — Date

HOPPER DENNIS JELLISON P.L.L.C.
ENGINEERS & PLANNERS
314 W. 11th Street
Vancouver, WA 98660-2827
(360) 695-3448
(503) 916-4825
FAX (360) 695-6787
Internet: www.hdjengineers.com

STATE OF WASHINGTON — JAMES C. HOPPER — 12-17-04 — PROFESSIONAL ENGINEER
EXPIRES: FEB 14, 2006

8/36

PROJECT NAME: BIG SKY – PHASE 2

SHEET LIMITS: CLAIRE AVENUE 30+17.00 TO 38+00.00

PROJECT LIMITS: HALLET ROAD & THOMAS MALLEN ROAD

TYPE OF IMPROVEMENT: STREET & STORM

CITY PROJECT NUMBER | CITY PLAN NUMBER

CALL BEFORE YOU DIG 456-8000

P-19184 Eng Road Drainage

DATE	BY	PROJ	DESCRIPTION	DATE	BY	PROJ	E.F.N.	U.A.N.	FROM	TO
REVISIONS										

COUNCIL ACCEPT DATE	FROM	TO	ORD. NO.	DATE	FILE NO.
RECORD					

GRADE ESTABLISHMENTS

NAVD88 – (DOD EDM ELEV) – (7.513) AS OF JANUARY, 2000 USE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
BENCH MARK LOCATION: A WSDOT 3" BRASS DISK IN MONUMENT CASE LOCATED IN THE INTX OF GEIGER RD & HATFORD RD. ELEV IS 2408.49 NAVD88 DATUM
NAVD88 ELEV 2412.29
CBM NO.
BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
HORIZONTAL 1"=50'
VERTICAL PROFILE 1"=5'
ROAD PROFILE ONLY 1"=10'
NAVD88 DATUM
SCALE

CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB.1995
LAST PROJECT BY: DATES:
DRAWN: CTS 11/04
REVISED:
CHECKED: TGJ
APPROVED: TGJ

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

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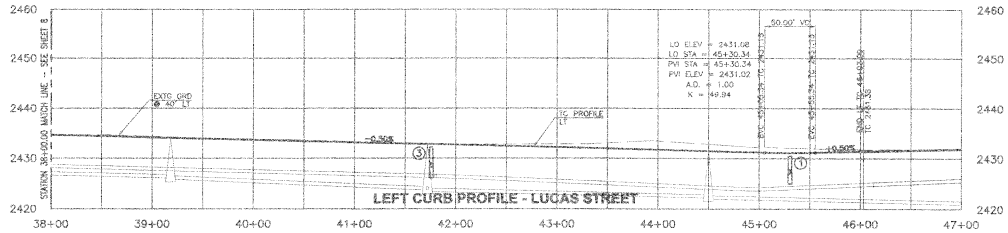
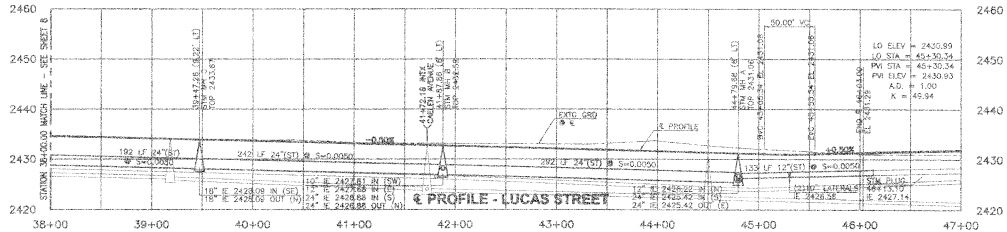
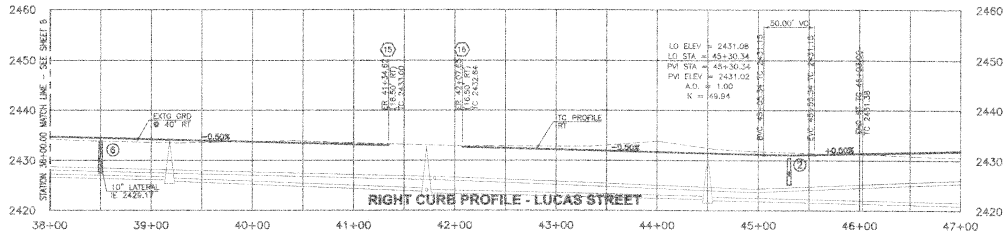
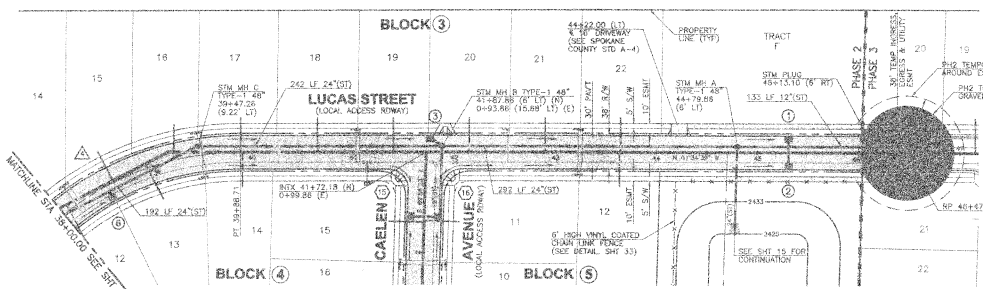
PRINTED:0002.DWG REV 11/27/2002









SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # 9018A
DATE ACCEPTED 11/1/15
ACCEPTANCE EXPIRES 11/1/16
PROJECT LANE MILES PUBLIC: 1.26
PROJECT LANE MILES PRIVATE: 0.
CONSTRUCTION DOCUMENTATION AND DEFICIES RECORD DRAWINGS, AS-BUILTS AND REDLINED PRIOR TO COUNTY ACCEPTANCE AND INITIAL ENTRY OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED (509) 477-3692
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

CENTERLINE CURVE DATA				
No.	Δ	R	L	T
1	47°04'12"	275	252.92	118.77

CURB RETURN DATA								
No.	Δ	R	L	ELEVATION* (CLOCKWISE)				
				ER	1/4PT	1/2PT	3/4PT	ER
15	61°38'18"	20	31.99	2431.06	2432.89	2432.99	2432.31	2432.15
16	88°21'44"	20	30.84	2432.16	2432.36	2432.41	2432.52	2432.64

*ELEVATIONS DO NOT REFLECT DEPRESSIONS FOR CURB RAMPS

STORMWATER CATCH BASIN TABLE								
No.	LOCATION	TYPE	RIM ELEV	OUTLET ELEV	INLET ELEV	OUTLET SIZE	LATERAL SLOPE	LATERAL LENGTH
1	45+30.34 (19.50' LT)	*1	2430.48	2427.03	-	18 in.	1.0%	11 ft.
2	45+30.34 (19.50' RT)	*1	2431.48	2427.15	-	18 in.	1.0%	22 ft.
3	41+75.82 (19.50' RT)	**2	2432.19	2428.04	-	18 in.	1.0%	18 ft.
6	38+00.00 (19.50' LT)	**2	2433.62	2429.42	-	18 in.	1.0%	18 ft.

*CB TO HAVE THROUGH CURB INLET FRAME. SEE DETAIL SHT 34
**SEE SPOKANE COUNTY STANDARD B-7

PROJECT APPLICANT
AKG CONSTRUCTION
12/9/04

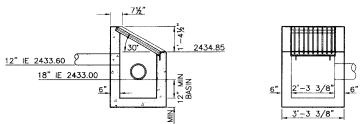
HOPPER DENNIS JELLISON PLLC
ENGINEERS & PLANNERS
EXPIRES FEB 14, 2006
12-9-04
9/36

PROJECT NAME: BIG SKY -- PHASE 2
SHEET LIMITS: LUCAS STREET 38+00.00 TO 47+00.00
TYPE OF IMPROVEMENT: STREET & STORM
PROJECT LIMITS: HALLET ROAD & THOMAS MALLEN ROAD
CALL BEFORE YOU DIG 456-6000

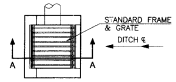
REVISIONS	RECORD	GRADE ESTABLISHMENTS	NAVD88 DATUM	SCALE
DATE BY PROJ DESCRIPTION	DATE BY PROJ FILE NO. LOA NOTE	CHANGE REQUEST DATE FROM TO UPD. NO. DATE REV. NO.	BENCH MARK LOCATION: A WSDOT 3" BRASS DISK IN MONUMENT CASE LOCATED IN THE INTX OF GEIGER RD & EASTPARD RD. ELEV IS 2428.48 NAVD29 DATUM.	1" = 20'

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

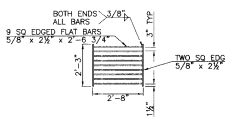
P-1918A
Eng Bnd Drawings



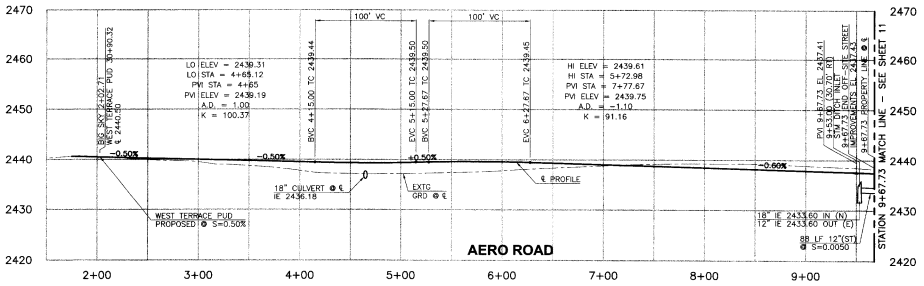
SECTION A-A

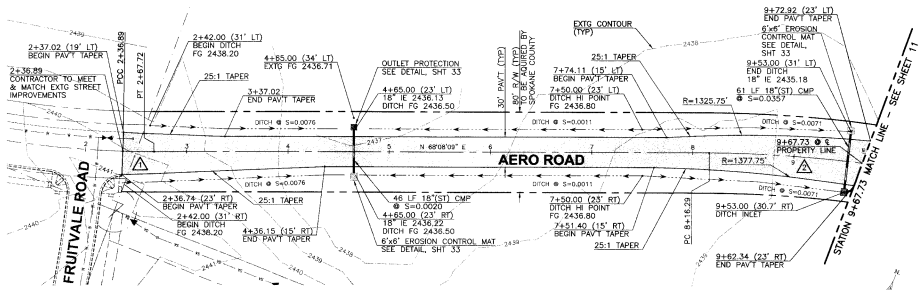


DITCH INLET (TYP)
NTS



DITCH INLET GRATE (TYP)
NTS





SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P-9198A
DATE ACCEPTED: 11/4/15
ACCEPTANCE EXPIRES: 11/4/19
PROJECT LANE MILES PUBLIC: 1.09
PROJECT LANE MILES PRIVATE: 0
RECORD DRAWINGS: "AS BUILTS" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3673
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION!

CENTERLINE CURVE DATA

No.	Δ	R	L	T
1	01°50'58"	955	30.83	30.83
2	21°51'07"	1200	457.66	231.65

PROJECT APPLICANT
AERO CONSTRUCTION
Date

HOPPER DENNIS JELLISON PLLC
ENGINEERS & PLANNERS
311 W. 19th Street
Vancouver, WA 98660-2927
(360) 695-3411
(503) 625-2662
FAX (360) 695-8767
Internet: www.hdjengineers.com

12-17-04
EXPIRES: FEB 14, 2006

10/36

PROJECT NAME: BIG SKY – PHASE 2
SHEET LIMITS: AERO ROAD 1+50.00 TO 9+67.73
TYPE OF IMPROVEMENT: STREET & STORM
CITY PROJECT NUMBER
CITY PLAN NUMBER
PROJECT LIMITS: HALLET ROAD & THOMAS MALLEN ROAD
CALL BEFORE YOU DIG 456-8000

P-9198A Eng Road Drawings

DATE	BY	PROJ	DESCRIPTION	DATE	BY	PROJ	E.C.N.	U.S.N.	FROM	TO
REVISIONS				RECORD						

COUNCIL ACCEPT DATE	FROM	TO	ORD. NO.	DATE	FILE NO.
GRADE ESTABLISHMENTS					

NAVD88 = (OLD CRM ELEV.) – (13.13) AS OF JANUARY, 2000 USE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
BENCH MARK LOCATION: A WSDOT 3" BRASS DISK IN MONUMENT CASE LOCATED IN THE INTX OF GEIGER RD & HAYFORD RD, ELEV IS 2408.49' NAVD88 DATUM
NAVD88 ELEV. 2412.29
CRM NO.
BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
NAVD88 DATUM
HORIZONTAL 1"=50' VERTICAL 1"=10' PROFILE ONLY
SCALE

CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB.1995

	LAST PROJECT BY	DATE
DRAWN	CTS	11/04
REVIEWED		
CHECKED	TGJ	
APPROVED	TGJ	

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

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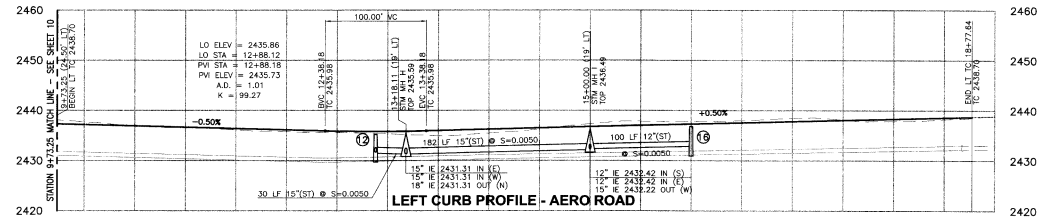
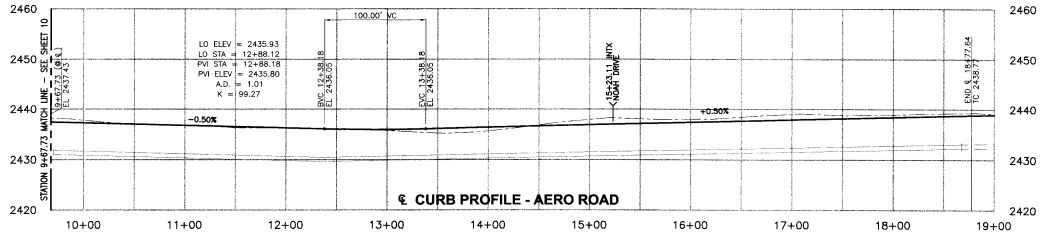
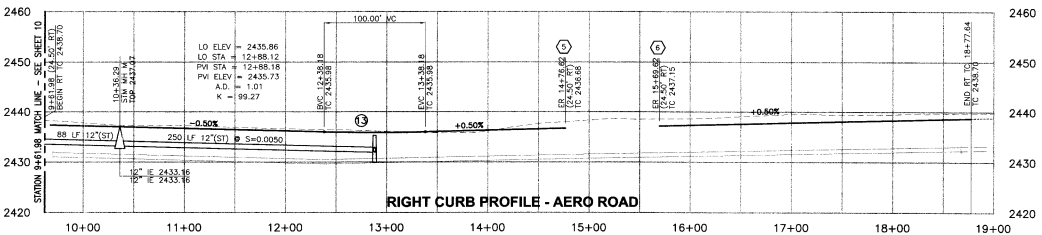
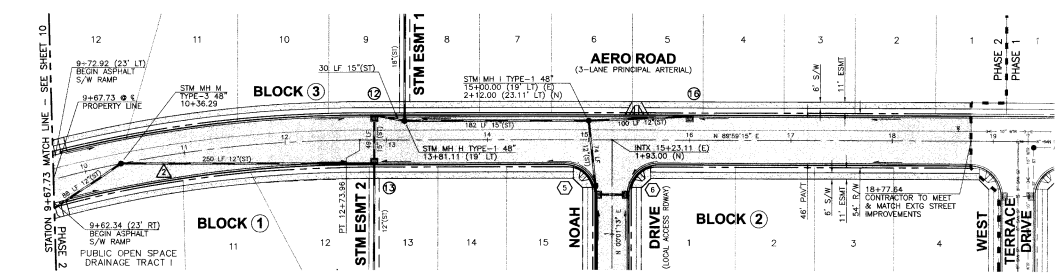
PROTO2002.DWG, REV 11/27/2002









SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1918A
DATE ACCEPTED: 11/14/15
ACCEPTANCE EXPIRES: 11/14/17
PROJECT LANE MILES PUBLIC: 1.04
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION COMMENCED AND COMPLETED
RECORD DRAWINGS AS BUILT SHALL BE SUBMITTED PRIOR TO COUNTY ACCEPTANCE AND CERTIFICATE OF COMPLETION OF THE ROADWAY AND DRAINAGE FACILITIES ABOVE.
PERMIT REQUIRED
NOTIFY PERMIT ENGINEER
PRIOR TO

CENTERLINE CURVE DATA

No.	Δ	R	L	T
3	21°51'07"	1200	457.66	231.65

CURB RETURN DATA

No.	Δ	R	L	ELEVATION* (CLOCKWISE)				
				ER	1/4PT	1/2PT	3/4PT	ER
5	89°59'31"	30	47.12	2436.68	2436.77	2436.70	2436.61	2436.54
6	90°00'29"	30	47.13	2436.54	2436.62	2436.79	2437.03	2437.15

*ELEVATIONS DO NOT REFLECT DEPRESSIONS FOR CURB RAMPS

STORMWATER CATCH BASIN TABLE

No.	LOCATION	TYPE	RIM ELEV	OUTLET ELEV	INLET ELEV	OUTLET SIZE	LATERAL SLOPE	LATERAL LENGTH
12	12+88.12 (24.50' LT)	*1	2435.26	2431.46	2431.46	15 in.	0.5%	30 ft.
13	12+88.12 (24.50' RT)	*1	2435.26	2431.71	2431.91 (S) 2431.91 (W)	15 in.	0.5%	49 ft.
16	16+00.00 (24.50' LT)	**1	2436.86	2432.92	-	12 in.	0.5%	100 ft.

* CB TO HAVE THROUGH CURB INLET FRAME (SEE DETAIL SHEET 34)
** SEE SPOKANE COUNTY STANDARD B-7

EXTG LINETYPE LEGEND

EXTG 8" SANITARY SEWER PIPE	8" SAN 8" SAN 8"
EXTG 4" WATER PIPE	4" WTR 4" WTR
EXTG 8" WATER PIPE	8" WTR 8" WTR
EXTG 10" WATER PIPE	10" WTR 10" WTR
EXTG STORM WATER PIPE	SF SF SF

PROJECT APPLICANT

AHO CONSTRUCTION — Date 12/14/04

HOPPER DENNIS JELLISON PLLC
ENGINEERS & PLANNERS
314 W. 13th Street
Vancouver, WA 98660-2627
(360) 695-1385
(503) 624-4400
FAX (360) 695-8767
Internet: www.hdjengineers.com

THOMAS G. LONGSTRETH — STATE OF WASHINGTON — REGISTERED PROFESSIONAL ENGINEER — 12-17-04
EXPIRES: FEB 14, 2006

11 / 36

REVISIONS						RECORD						GRADE ESTABLISHMENTS						NAVD88 DATUM	SCALE
DATE	BY	PROJ.	DESCRIPTION	DATE	BY	PROJ.	E.F.N.	U.I.N.	FROM	TO	COUNCIL ACCEPT DATE	FROM	TO	ORD. NO.	DATE	FILE NO.			

NAVD88 = (OLD DRM ELEV) - (0.13) AS OF JANUARY, 2003 USE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
BENCH MARK LOCATION: A WSDOT 3" BRASS DISK IN MONUMENT CASE LOCATED IN THE INTX OF GEIGER RD & HAYFORD RD. ELEV IS 2408.42 NAVD28 DATUM
NAVD88 2412.29
DRM NO.
SEE ℄ ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
HORIZONTAL 1"=50'
VERTICAL 1"=10'
PROFILE ONLY 1"=10'

CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB.1995

	LAST PROJECT BY:	DATES
DRAWN	CDS	
REVISED		
CHECKED	TGJ	
APPROVED	TGJ	

SPOKANE

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

PROJECT NAME: BIG SKY - PHASE 2
SHEET LIMITS: AERO ROAD 9+67.73 TO 18+77.64
PROJECT LIMITS: HALLET ROAD & THOMAS MALLEN ROAD
TYPE OF IMPROVEMENT: STREET & STORM
CITY PROJECT NUMBER
CITY PLAN NUMBER
EFN:

CALL BEFORE YOU DIG 456-8000

P-19188 Eng Road Drainage

PROTO2002.DWG; REV 11/27/2002

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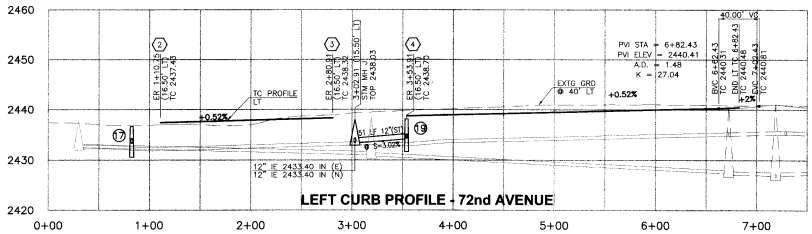
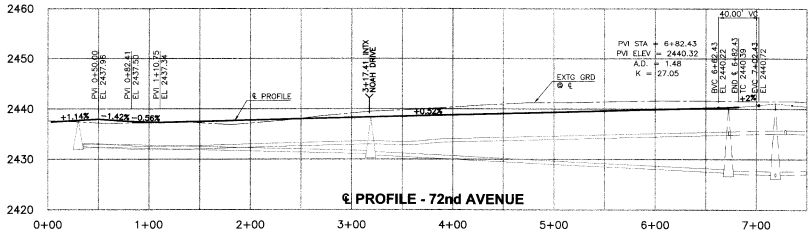
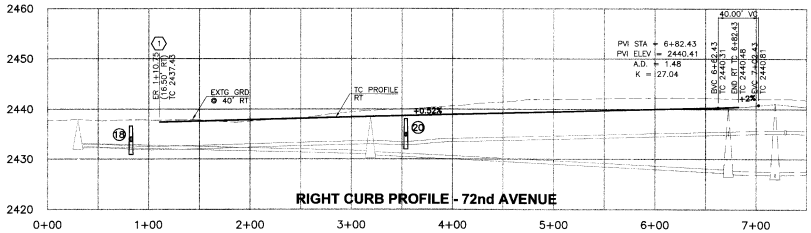
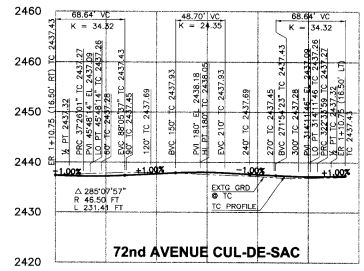








CURB RETURN DATA								
No.	Δ	R	L	ELEVATION* (CLOCKWISE)				
				ER	1/4PT	1/2PT	3/4PT	ER
1	52°33'52"	30	27.52	2437.27		2437.32		2437.43
2	52°33'52"	30	27.52	2437.43		2437.32		2437.27
3	90°00'28"	20	31.42	2437.78	2437.91	2438.12	2438.23	2438.32
4	89°59'32"	20	31.41	2438.70	2438.57	2438.27	2437.95	2437.78

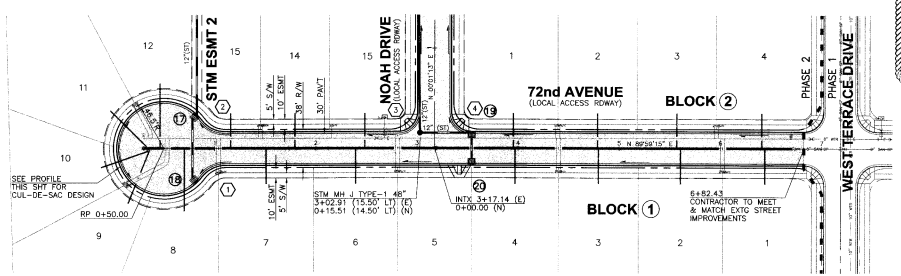
*ELEVATIONS DO NOT REFLECT DEPRESSIONS FOR CURB RAMPS

STORMWATER CATCH BASIN TABLE								
No.	LOCATION	TYPE	RIM ELEV	OUTLET ELEV	INLET ELEV	OUTLET SIZE	LATERAL SLOPE	LATERAL LENGTH
17	0+82.41 (33.35' LT)	*1	2436.66	2433.33	2433.33	12 in.	1.05%	135 ft.
18	0+82.42 (33.34' LT)	*1	2436.66	2433.66	-	12 in.	0.5%	67 ft.
19	3+53.91 (16.50' LT)	**1	2438.10	2434.81	2434.94	12 in.	3.02%	51 ft.
20	3+53.91 (16.50' RT)	**1	2438.10	2435.10	-	10 in.	0.5%	33 ft.

* CB TO HAVE THROUGH CURB INLET FRAME (SEE DETAIL SHEET 34)
** SEE SPOKANE COUNTY STANDARD B-7

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: 7118A
DATE ACCEPTED: 11/13/13
ACCEPTANCE EXPIRES: 11/13/15
PROJECT LANE MILES PUBLIC: 1.06
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) 477-3672
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

EXTG LINETYPE LEGEND	
EXTG 8" SANITARY SEWER PIPE	8" SAN SEWER
EXTG 8" WATER PIPE	8" WTR
EXTG 10" WATER PIPE	10" WTR
EXTG STORM WATER PIPE	12" STORM



PROJECT APPLICANT
AHO CONSTRUCTION
DATE 12/19/04

HOPPER DENNIS JELLISON PLLC
ENGINEERS & PLANNERS
104 W. 13th Street
Vancouver, WA 98660-2927
(360) 695-3468
(503) 924-4097
FAX (360) 695-8767
Internet: www.hdjengineers.com

EXPIRES: FEB 14, 2006
12-17-04
12/36

PROJECT NAME:	BIG SKY – PHASE 2	
SHEET LIMITS:	72nd AVENUE 0+00.00 TO 6+82.43	TYPE OF IMPROVEMENT: STREET & STORM
		CITY PROJECT NUMBER / CITY PLAN NUMBER
PROJECT LIMITS:	HALLET ROAD & THOMAS MALLEN ROAD	DN:

CALL BEFORE YOU DIG 456-8000

P-19188 Eng Road Drainage

DATE	BY	PROJ	DESCRIPTION	DATE	BY	PROJ	E.F.N.	U.I.N.	FROM	TO
REVISIONS				RECORD						

COUNCIL ACCEPT DATE	FROM	TO	ORD. NO.	DATE	FILE NO.
GRADE ESTABLISHMENTS					

NAVD88 = (COLD DEM ELEV.) - (13.13) AS OF JANUARY, 2000 USE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

BENCH MARK LOCATION: A WSDOT 3" BRASS DISK IN MONUMENT CASE LOCATED IN THE INTX OF GEIGER RD. & HATFORD RD. ELEV IS 2408.49 NAVD29 DATUM

DATUM ELEV. 2412.29 | TRIM NO.

NAVD88 DATUM

BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

HORIZONTAL 1"=50' | VERTICAL PROFILE ONLY 1"=10'

SCALE

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201 - 3343
(509) 625-6300

CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB.1995

	LAST PROJECT BY:	DATES:
DRAWN:	CDS	
REVISED:		
CHECKED:	TCJ	
APPROVED:	TGL	

PROTO2002.DWG REV 11/27/2002

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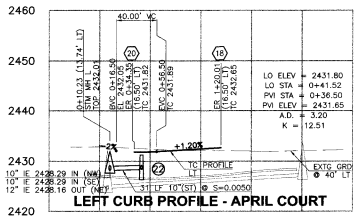
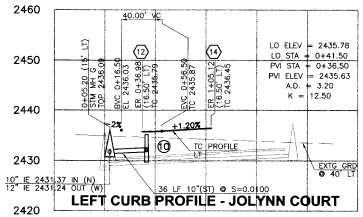
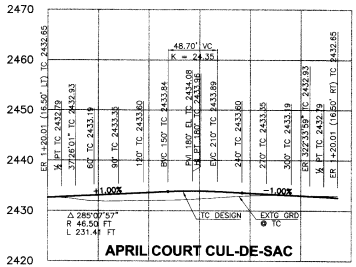


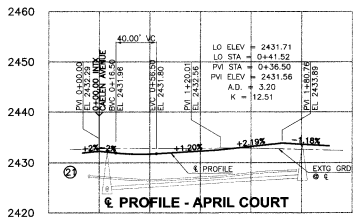
LEFT CURB PROFILE - APRIL COURT



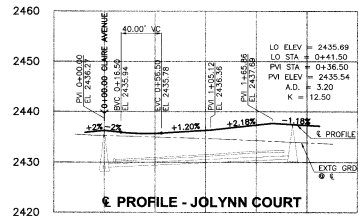
LEFT CURB PROFILE - JOLYNN COURT



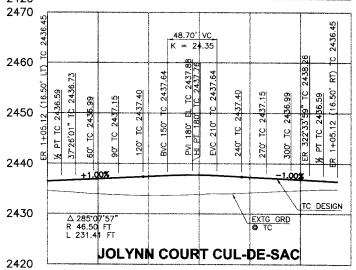
APRIL COURT CUL-DE-SAC



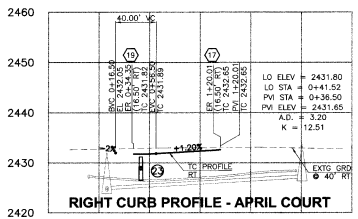
℄ PROFILE - APRIL COURT



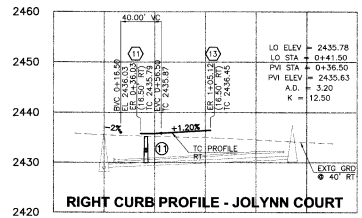
℄ PROFILE - JOLYNN COURT



JOLYNN COURT CUL-DE-SAC



RIGHT CURB PROFILE - APRIL COURT



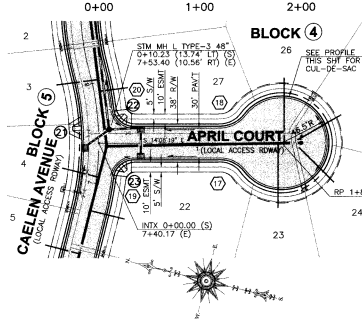
RIGHT CURB PROFILE - JOLYNN COURT

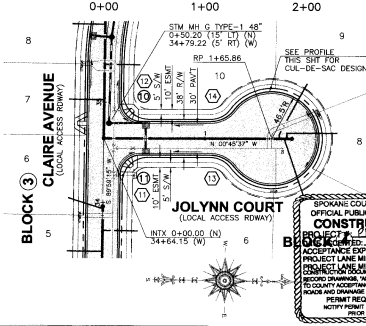
CURB RETURN DATA								
No.	Δ	R	L	ELEVATION* (CLOCKWISE)				
				ER	1/4PT	1/2PT	3/4PT	ER
11	89°15'08"	20	31.15	2436.54	2436.43	2436.16	2435.90	2435.79
12	90°44'52"	20	31.68	2435.79	2435.86	2436.01	2436.09	2436.17
13	52°33'52"	30	27.52	2436.45		2436.59		2436.73
14	52°33'52"	30	27.52	2436.73		2436.59		2436.45
17	52°33'52"	30	27.52	2432.65		2432.79		2432.93
18	52°33'52"	30	27.52	2432.93		2432.79		2432.65
19	83°16'15"	20	29.07	2432.54	2432.43	2432.18	2431.93	2431.82
20	83°16'15"	20	29.07	2431.82	2431.90	2432.06	2432.21	2432.23

*ELEVATIONS DO NOT REFLECT DEPRESSIONS FOR CURB RAMPS

STORMWATER CATCH BASIN TABLE								
No.	LOCATION	TYPE	RIM ELEV	OUTLET ELEV	INLET ELEV	OUTLET SIZE	LATERAL SLOPE	LATERAL LENGTH
18	0+41.50 (16.50' LT)	*1	2435.18	2431.73	2431.73	10 in.	1.0%	36 ft.
11	0+41.50 (16.50' RT)	*1	2435.18	2432.06	-	10 in.	1.0%	33 ft.
21	7+35.00 (16.50' LT)	**1	2431.80	2428.62	-	10 in.	1.0%	33 ft.
22	0+41.52 (16.50' LT)	*1	2431.20	2428.45	2428.45	10 in.	0.5%	31 ft.
23	0+41.52 (16.50' RT)	*1	2431.20	2428.61	-	10 in.	0.5%	33 ft.

* CB TO HAVE THROUGH CURB INLET FRAME (SEE DETAIL SHEET 34)
** SEE SPOKANE COUNTY STANDARD B-7





SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # 2418A
BLOCK NUMBER 11011
ACCEPTANCE EXPIRES 1 YEAR
PROJECT LANE MILES PUBLIC 1.5
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

PROJECT APPLICANT
Date
CONSTRUCTION

HOPPER DENNIS JELLISON PLLC
ENGINEERS & PLANNERS
314 W. 13th Street
Vancouver, WA 98660-2927
(360) 693-3481
(503) 924-4800
FAX (360) 693-6767
Internet: www.hdjengineers.com

THOMAS G. LOMBARD
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
EXPIRES: FEB 14, 2006
12-17-04

13/36

PROJECT NAME: BIG SKY – PHASE 2

SHEET LIMITS: APRIL COURT 0+00.00 TO 2+30.76 JOLYNN COURT 0+00.00 TO 2+15.86

PROJECT LIMITS: HALLET ROAD & THOMAS MALLEN ROAD

TYPE OF IMPROVEMENT: STREET & STORM

CITY PROJECT NUMBER | CITY PLAN NUMBER | ENG

CALL BEFORE YOU DIG 456-8000

P-19188 Eng Road-Drainage

DATE	BY	PROJ	DESCRIPTION	DATE	BY	PROJ	C.F.N.	U.I.N.	FROM	TO
REVISIONS				RECORD						

COUNCIL ACCEPT DATE	FROM	TO	GRD. NO.	DATE	FILE NO.
GRADE ESTABLISHMENTS					

NAVD88 DATUM

BENCH MARK LOCATION: A WSDOT 3" BRASS DISK IN MONUMENT CASE LOCATED IN THE INTX OF GEIGER RD & HAYFORD RD. ELEV IS 2428.49 NAVD29 DATUM
NAVD88 ELEV. 2412.29
CONV. NO.

HAS SI ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

HORIZONTAL PLANIMETRIC 1"=50'
VERTICAL PROFILE ONLY 1"=10'
SCALE

AS OF JANUARY, 2000 USE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

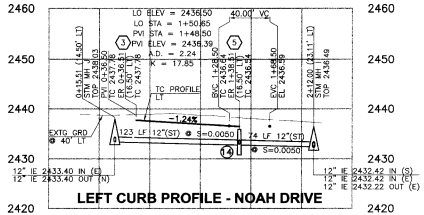
CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB.1995

LAST PROJECT BY:	DATE
DRAWN: CDS	
REVISED:	
CHECKED: TGJ	
APPROVED: TGL	

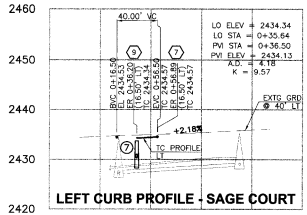
SPOKANE

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

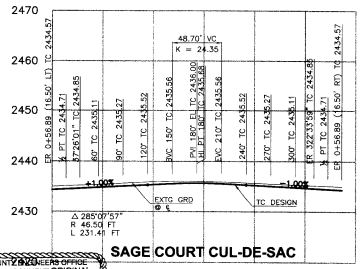
PROTOJOJO2.DWG, REV 11/27/2002



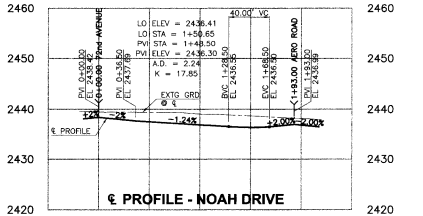
LEFT CURB PROFILE - NOAH DRIVE



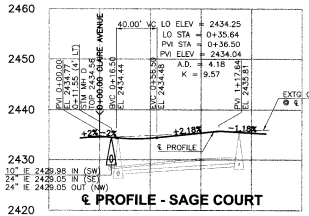
LEFT CURB PROFILE - SAGE COURT



SAGE COURT CUL-DE-SAC

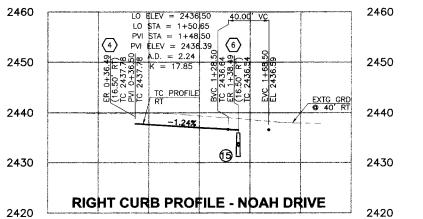


℄ PROFILE - NOAH DRIVE

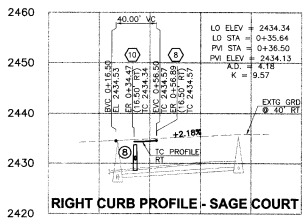


℄ PROFILE - SAGE COURT

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: P1918A
DATE ACCEPTED: 11/15/04
ACCEPTANCE EXPIRES: 11/15/07
PROJECT LANE MILES PUBLIC: 1.24
PROJECT LANE MILES PRIVATE: 0.47
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS "AS-BUILT" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3623
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION



RIGHT CURB PROFILE - NOAH DRIVE



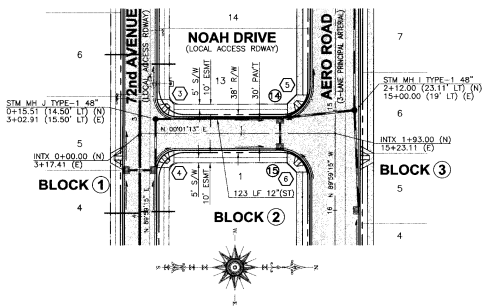
RIGHT CURB PROFILE - SAGE COURT

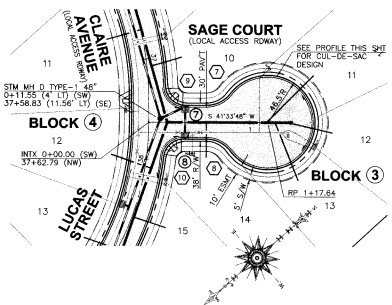
CURB RETURN DATA								
No.	Δ	R	L	ELEVATION* (CLOCKWISE)				
				ER	1/4PT	1/2PT	3/4PT	ER
3	90°00'29"	20	31.42	2437.78	2437.91	2438.12	2438.23	2438.32
4	89°59'31"	20	31.41	2438.70	2438.57	2438.27	2437.95	2437.78
5	89°59'31"	30	47.12	2436.68	2436.77	2436.70	2436.61	2436.54
6	90°00'29"	30	47.13	2436.54	2436.62	2436.79	2437.03	2437.15
7	52°33'52"	30	27.52	2434.57		2434.71		2438.85
8	52°33'52"	30	27.52	2438.85		2434.71		2434.57
9	87°55'22"	20	30.69	2434.34	2434.43	2434.67	2434.93	2435.04
10	83°27'30"	20	29.13	2434.70	2434.79	2434.54	2434.42	2434.34

*ELEVATIONS DO NOT REFLECT DEPRESSIONS FOR CURB RAMPS

STORMWATER CATCH BASIN TABLE								
No.	LOCATION	TYPE	RIM ELEV	OUTLET ELEV	INLET ELEV	OUTLET SIZE	LATERAL SLOPE	LATERAL LENGTH
7	0+36.20 (16.5'LT)	*1	2433.74	2430.26	2430.26	10 in.	1.0%	28 ft.
8	0+35.64 (16.5'RT)	*1	2433.74	2430.59	-	10 in.	1.0%	33 ft.
14	1+38.51(16.5'LT)	*1	2435.94	2432.79	2432.79(S) 2432.79(E)	12 in.	.5%	74 ft.
15	1+38.49(16.5'RT)	*1	2435.94	2433.12	-	12 in.	.5%	33 ft.

* CB TO HAVE THROUGH CURB INLET FRAME (SEE DETAIL SHEET 34)





SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #:
DATE ACCEPTED:
PROJECT LANE MILES PUBLIC:
PROJECT LANE MILES PRIVATE:
ACCEPTANCE EXPIRES:
RECORD DRAWINGS, "AS-BUILT" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3623
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

PROJECT APPLICANT

AHO CONSTRUCTION — Date 12/29/04

STATE OF WASHINGTON — 12-17-04 — EXPIRES: FEB 14, 2006

HOPPER DENNIS JELLISON PLLC
ENGINEERS & PLANNERS
314 W. 11th Street
Vancouver, WA 98660-3327
(360) 695-3446
(503) 224-4083
FAX (360) 695-8767
Internet: www.hdjengineers.com

REVISIONS				RECORD						GRADE ESTABLISHMENTS						SCALE		
DATE	BY	PROJ	DESCRIPTION	DATE	BY	PROJ	E/N, U.S.N.	FROM	TO	COUNCIL ACCEPT DATE	FROM	TO	ORD. NO.	DATE	FILE NO.			

NAVD88 = (SQU CONV ELEV) - 0.11 US DF (BANNER) 2000 USE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
BENCH MARK LOCATION: A WSDOT 3" BRASS DISK IN MONUMENT CASE LOCATED IN THE INTX OF GEIGER RD & HATFORD RD. ELEV IS 2428.49 NAVD29 DATUM.
NAVD88 ELEV 2412.29
ORIG CNO NO.
NAVD88 DATUM
BUR. EL DIFF. BCD ON ORIGINAL TOWNSIDE
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
HORIZONTAL 1"=50'
CLEARTRACE 1"=40'
PROFILE ONLY 1"=10'
SCALE

LAST PROJECT BY: DATES
DRAWN: CDS
REVISED:
CHECKED: TGJ
APPROVED: TGL

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

PROJECT NAME: BIG SKY – PHASE 2

SHEET LIMITS: NOAH DRIVE 0+00.00 TO 1+93.00 — SAGE COURT 0+00.00 TO 1+67.64

PROJECT LIMITS: HALLET ROAD & THOMAS MALLEN ROAD

TYPE OF IMPROVEMENT: STREET & STORM
CITY PROJECT NUMBER
CITY PLAN NUMBER
DPW

CALL BEFORE YOU DIG 456-8000

P 1918A Eng Prel Drainage

14/36

PR01020000 DWG REV: 11/27/2002

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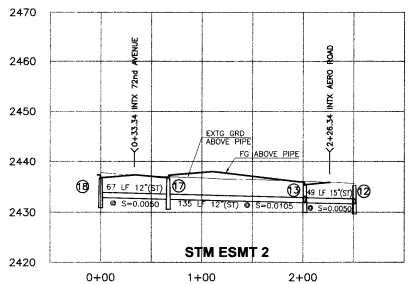

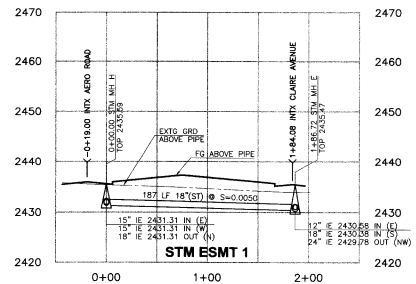

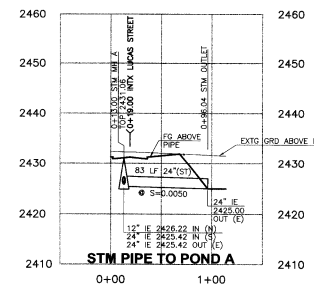

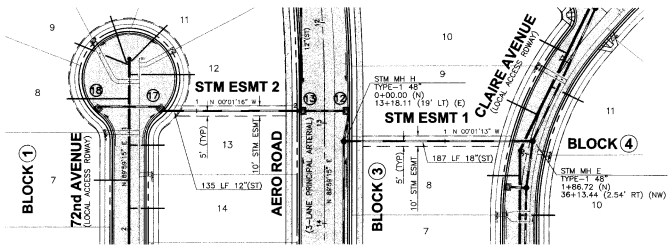

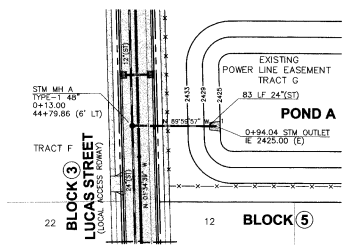

STORMWATER CATCH BASIN TABLE								
No.	LOCATION	TYPE	RIM ELEV	OUTLET ELEV	INLET ELEV	OUTLET SIZE	LATERAL SLOPE	LATERAL LENGTH
12	2+50.84	*1	2435.26	2431.46	2431.46	15 in.	0.5%	30 ft.
13	2+01.84	*1	2435.26	2431.71	2431.91 (S) 2431.91 (W)	15 in.	0.5%	49 ft.
17	0+66.68	*1	2436.66	2433.33	2433.33	12 in.	1.05%	135 ft.
18	0+00.00	*1	2436.66	2433.66	-	12 in.	0.5%	67 ft.

* CB TO HAVE THROUGH CURB INLET FRAME (SEE DETAILS SHEET 34)

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: PRUA
DATE ACCEPTED: 11/04/05
ACCEPTANCE EXPIRES: 11/04/07
PROJECT LANE MILES PUBLIC: 1.04
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION DOCUMENTATION AND CERTIFIED RECORD DRAWINGS "AS BUILT" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED: (509) 477-3023
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

PROJECT APPLICANT
AHO CONSTRUCTION
DATE 12/8/04

HOPPER DENNIS JELLISON PLLC
ENGINEERS & PLANNERS
114 W. 11th Street
Vancouver, WA 98660-3277
(360) 695-3488
(360) 694-4665
FAX (360) 906-9157
Internet: www.hdjengineers.com

STATE OF WASHINGTON JAMES C. HOPPER 12-17-04 PROFESSIONAL ENGINEER
EXPIRES: FEB 14, 2006

15/36

DATE	BY	PROJ	DESCRIPTION	DATE	BY	PROJ	C.F.N. U.S.R.	FROM	TO
REVISIONS				RECORD					

COUNCIL ACCEPT DATE	FROM	TO	ORD. NO.	DATE	FILE NO.
GRADE ESTABLISHMENTS					

NAVD88 = (OLD DRM ELEV) - (13.13) AS OF JANUARY, 2000 USE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
BENCH MARK LOCATION: A WSDOT 3" BRASS DISK IN MONUMENT CASE LOCATED IN THE INTX OF GEIGER RD & HATFORD RD. ELEV IS 2458.42 NAVD29 DATUM
NAVD88 ELEV: 2412.29
DRM NO.
NAVD88 DATUM
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1 2
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
HORIZONTAL PLANIMETRIC 1"=50'
VERTICAL PROFILE ONLY 1"=10'
SCALE

CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB.1995
LAST PROJECT BY: DATES
DRAWN: CDS
REVISED:
CHECKED: TGJ
APPROVED: TGJ

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

PROJECT NAME: BIG SKY – PHASE 2
SHEET LIMITS: STM ESMT 2, STM ESMT 1 & STM PIPE TO POND A
TYPE OF IMPROVEMENT: STREET & STORM
CITY PROJECT NUMBER
CITY PLAN NUMBER
PROJECT LIMITS: HALLET ROAD & THOMAS MALLEN ROAD
CALL BEFORE YOU DIG 456-8000
P-1918A Eng Red Drainage

PROTO2002.DWG REV 11/27/2002
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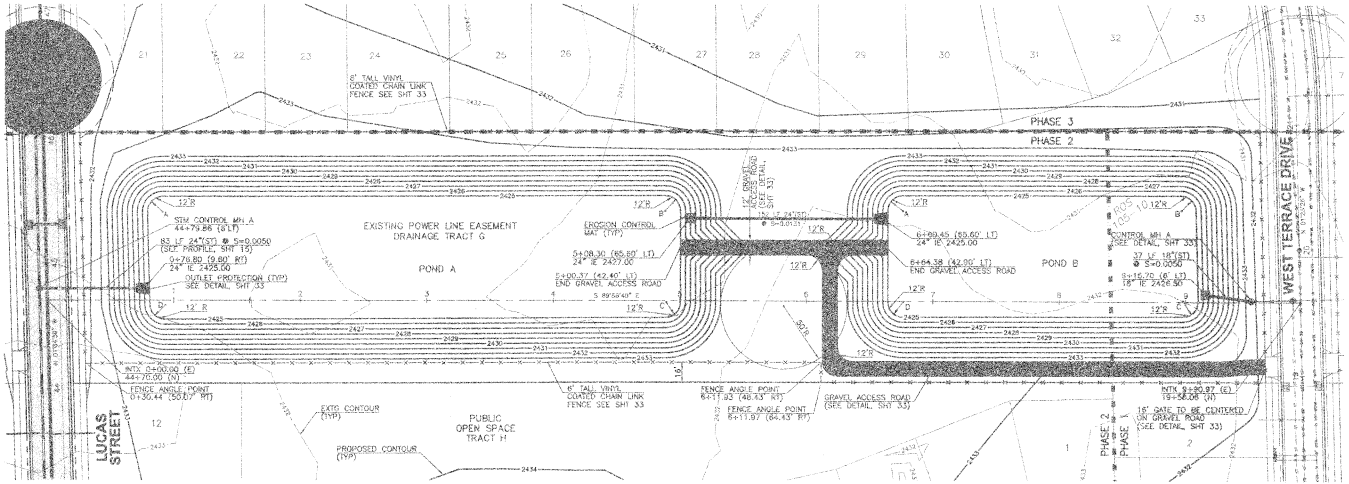
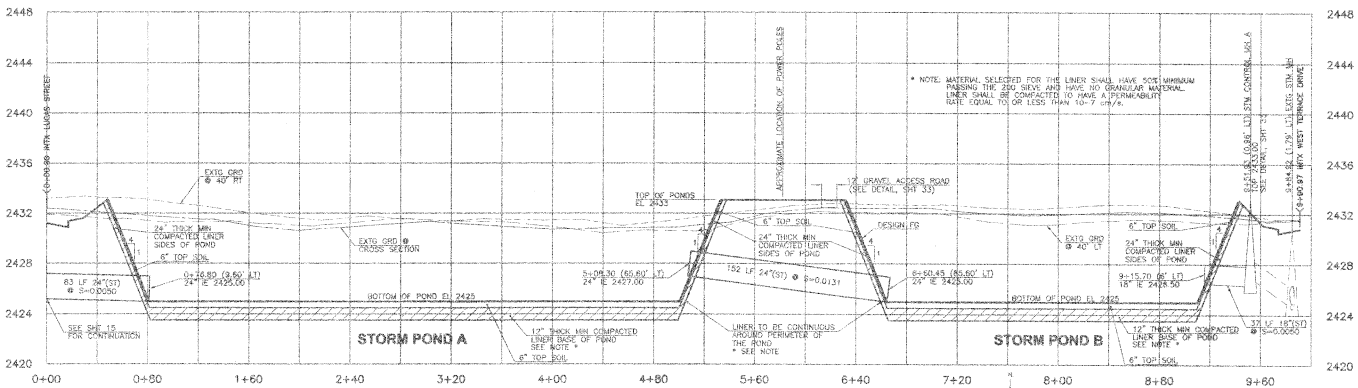




STORMWATER FACILITY PLANTING

PLANTING MIXTURE SPECIFICATIONS:
FOR BOTTOM & SIDE SLOPES

BOTTOM OF POND	% BY WEIGHT	SIDE SLOPES	% BY WEIGHT
BLUE WILDRYE	46	NATIVE RED FESCUE	50
NATIVE RED FESCUE	38	CALIFORNIA BROME	20
TUFTED HAIRGRASS	12	BLUE WILDRYE	20
WESTERN MANNINGRASS	2	LARGE LEAF LUPINE	10
AMERICAN SLOUGHGRASS	2		

APPLICATION RATE:
HYDROSEED @ 1 LB/1000 SQUARE FEET

APPLICATION RATE:
HYDROSEED @ 2 LBS/1000 SQUARE FEET

STORM POND A		
LABEL	STATION	ELEV
A	0+91.04 (70.34' LT)	2425
B	4+98.30 (71.90' LT)	2425
C	4+99.46 (1.28' RT)	2425
D	0+93.12 (2.96' RT)	2425

STORM POND B		
LABEL	STATION	ELEV
A	6+76.32 (71.69' LT)	2425
B	6+96.11 (72.41' LT)	2425
C	6+97.93 (0.49' LT)	2425
D	6+76.46 (0.48' RT)	2425

EXTG LINETYPE LEGEND
EXTG SANITARY SEWER PIPE
EXTG WATER PIPE
EXTG STORM PIPE

PROJECT APPLICANT
FOR CONSTRUCTION

HOPPER DENNIS JELLISON PLLC
ENGINEERS & PLANNERS
214 W. 3RD AVENUE
SPOKANE, WASHINGTON 99201-3217
(509) 455-9076
(509) 624-1463
E-mail: info@hopperjellison.com

EXPIRES FEB 16, 2006

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # 97118A
DATE ACCEPTED: 11/14/06
ACCEPTANCE EXPIRES 11/14/07
PROJECT LANE MILES PUBLIC 1.1
PROJECT LANE MILES PRIVATE 0.0
CONTRACTOR DOCUMENTATION AND CERTIFIED RECORD DRAWINGS, AS-BUILTS, AND REQUIRED PRIOR TO COUNTY ACCEPTANCE AND OFFICIAL EXPIRATION OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE PURPOSES REQUIRED (509) 477-3600
NOTIFY POINT ENGINEER 2 WORKING DAYS PRIOR TO CONSTRUCTION

12-17-04

32/36

PROJECT NAME: BIG SKY – PHASE 2

SHEET LIMITS: STORM FACILITY

TYPE OF IMPROVEMENT: STORM
CITY PROJECT NUMBER:
CITY PLAN NUMBER:

PROJECT LIMITS: HALLET ROAD & THOMAS MALLEN ROAD

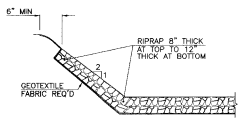
CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

CALL BEFORE YOU DIG 456-8000

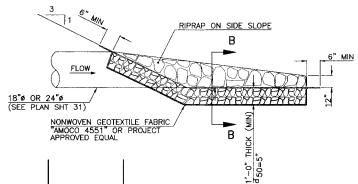
P-19168 Engineer Journey

REVISIONS | RECORD | GRADE ESTABLISHMENTS | NAVD88 DATUM | SCALE

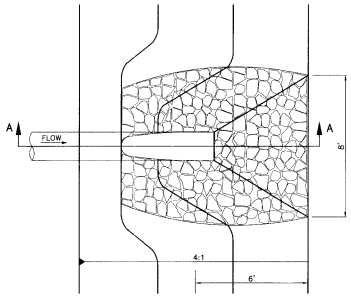
PROTOCOL/CLIENT: REV 11/27/2002



SECTION B–B

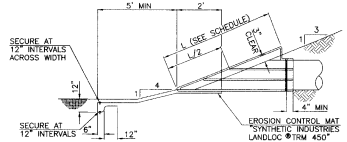


SECTION A–A

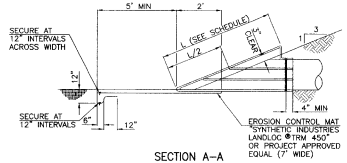


OUTLET PROTECTION DETAIL

NTS

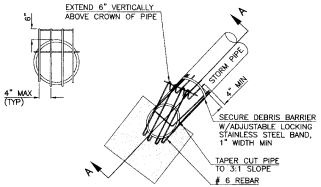


SECTION A–A
W/SLOPED ENTRANCE



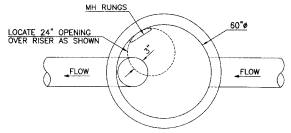
SECTION A–A

DEBRIS BARRIER SCHEDULE		
PIPE DIA	L	NO. OF BARS REQUIRED
15"	6.0'	4
18"	6.5'	5
24"	8.0'	7
48"	15'	15

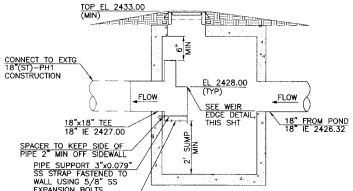


INLET/OUTLET PROTECTION W/DEBRIS BARRIER

NTS



TOP VIEW



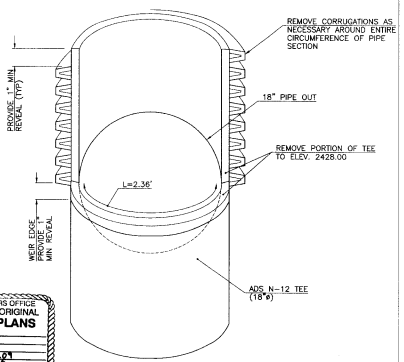
SECTION

NOTE:
DEVELOPMENT OF PHASE 2 NECESSITATES THE FOLLOWING CHANGES TO THE PHASE 1 CONTROL STRUCTURES:

1. WEST POND (POND 'A', MH 'A') CHANGE 6"ø ORFICE TO AN 8"ø ORIFICE.
2. MIDDLE POND (POND 'B', MH 'B') CHANGE 3"ø ORIFICE TO A 6"ø ORIFICE.
3. MIDDLE POND (POND 'B', MH 'C') PLUG 18"ø OUTFLOW PIPE TO SOUTHEAST (I.E., NO FLOW TO POND 'C').

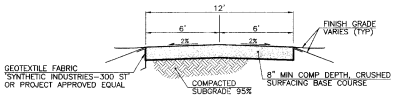
STORM CONTROL MANHOLE 'A'
PHASE 2

NTS

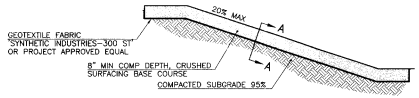


WEIR EDGE DETAIL

NTS

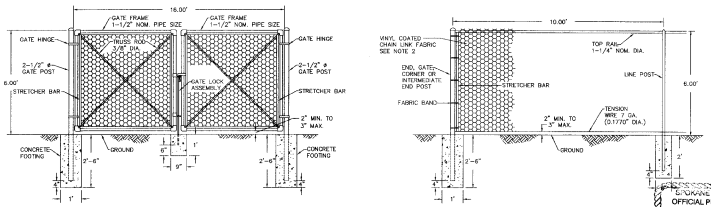


SECTION A – A



GRAVEL ACCESS ROAD

NTS



NOTES:

1. ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CURRENT STATE OF WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
2. VINYL COATED CHAIN LINK FENCE FABRIC TO MEET OR EXCEED REQUIREMENTS OF WSDOT SPECIFICATION 9.16.1(7) FOR TYPE 1 FENCE (9 GA) 2" DIAMOND.

STORM FACILITY CHAIN LINK FENCE

NTS

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # CP014
DATE ACCEPTED: 11/17/05
ACCEPTANCE EXPIRES: 11/17/07
PROJECT LANE MILES PUBLIC: 1.04
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

PROJECT APPLICANT
Thomas Brownell 12/29/04
AND CONSTRUCTION Date

HOPPER DENNIS JELLISON PLLC
ENGINEERS & PLANNERS
324 W. 25th Street
Vancouver, WA 98660-2917
(360) 693-1958
(503) 924-4005
FAX (360) 695-8707
Internet: www.hdjengineers.com

THOMAS L. HOPPER — STATE OF WASHINGTON — 12-17-04 — REGISTERED PROFESSIONAL ENGINEER
EXPIRES: FEB 14, 2006

33/36

REVISIONS						RECORD						GRADE ESTABLISHMENTS						
DATE	BY	PROJ.	DESCRIPTION	DATE	BY	PROJ.	E.F.N.	U.S.N.	FROM	TO	COUNCIL ACCEPT DATE	FROM	TO	ORD. NO.	DATE	FILE NO.

NAVD88 DATUM

NAVD88 = (OLD CITY ELEV.) – (1.13) AS OF JANUARY, 2000 USE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
BENCH MARK LOCATION: A WSDOT 3" BRASS DISK IN MONUMENT CASE LOCATED IN THE INTX OF GEIGER RD & HATFORD RD ELEV = 2408.49 NAVD'29 DATUM
NAVD88 ELEV. 2412.29
CITY NO.

SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
HORIZONTAL
VERTICAL
PROFILE ONLY

CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB.1995

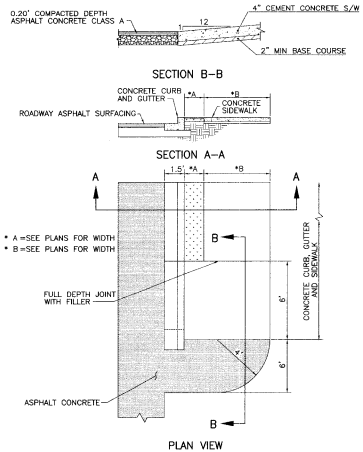
	LAST PROJECT BY	DATES
DRAWN:	CTS	
REVISED:		
CHECKED:	GME	
APPROVED:	TGL	

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

PROJECT NAME: BIG SKY – PHASE 2
SHEET TITLE: STORM FACILITY DETAILS
TYPE OF IMPROVEMENT: DETAILS
CITY PROJECT NUMBER
CITY PLAN NUMBER
PROJECT LIMITS: HALLET ROAD & THOMAS MALLEN ROAD
ENG.
CALL BEFORE YOU DIG 456-8000
P-1918A
Eng Road Drainage

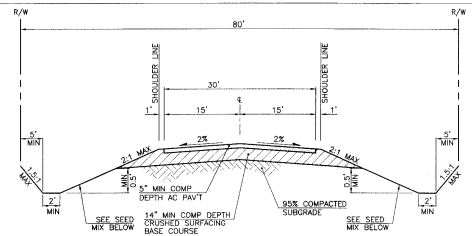
PROTO2002.DWG REV 11/27/2002

E:\projects\2185\Civil\FinalEng\Proof\PHASE-2\2185\2C15.dwg, 12/18/2004 3:16:23 PM, cts



ASPHALT SIDEWALK RAMP DETAIL

NTS



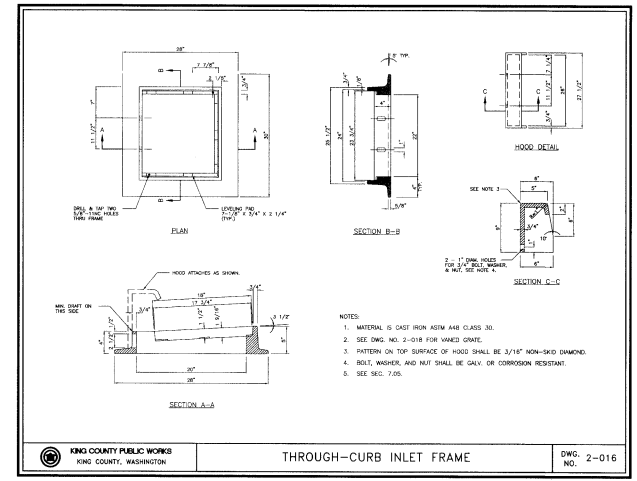
AERO ROAD TYPICAL SECTION STATION 2+36.89 TO 9+67.73

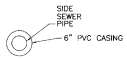
NTS

SEED MIX FOR DITCH & ALL OTHER DISTURBED SOILS DURING CONSTRUCTION OF OFFSITE AERO

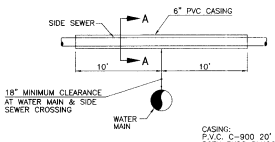
SEEDMIX	% BY WEIGHT
STONEHEDGE HARD FESCUE	40%
COLIAR SHEEP FESCUE	15%
PURPLE PRAIRIE CLOVER	15%
DWARF BACHELOR BUTTONS	12%
SANDBERG BLUEGRASS	8%
BABY BLUE EYES	5%
DUTCH WHITE CLOVER	2%
DWARF WHITE ALYSSUM	2%
SCARLET GLOBEMALLOW	2%
DWARF WHITE YARROW	1%

APPLICATION RATE = 2 LB / 1000 SQ. FT.





SECTION A-A



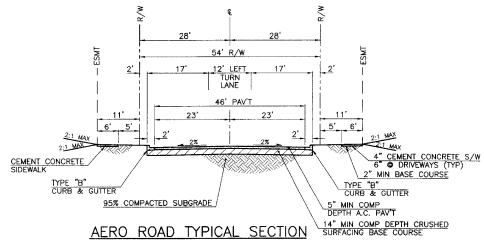
TYPICAL SIDE SEWER CROSSING OVER WATERMAIN

NTS

MAXIMUM DEFLECTION FOR DUCTILE IRON PIPE *

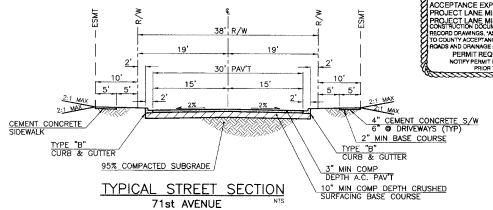
SIZE OF PIPE	DEFLECTION ANGLE	MAXIMUM DEFLECTION 18' LENGTH	MAXIMUM DEFLECTION 20' LENGTH	APPROXIMATE RADIUS OF CURVE PRODUCED BY SUCCESSION OF JOINTS 18' LENGTH	20' LENGTH
(IN)	(DEG)	(IN)	(IN)	(FT)	(FT)
4	5°	19	21	205	230
8	5°	19	21	205	240
10	5°	19	21	205	230

***MAXIMUM ALLOWABLE DEFLECTION 75% OF ABOVE DEFLECTION.**



AERO ROAD TYPICAL SECTION FOR ON-SITE STA 9+67.73 TO 18+77.64

NTS



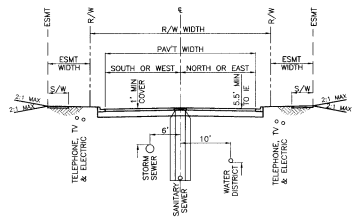
TYPICAL STREET SECTION

NTS

71st AVENUE
CAELEN AVENUE
CLAIRE AVENUE
NOAH STREET
APRIL COURT
JOLYNN COURT
SAGE COURT
LUCAS STREET

SPOKANE COUNTY ENGINEER'S OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT # P-1918A
DATE ACCEPTED: 11/19/04
ACCEPTANCE EXPIRES: 11/19/06
PROJECT LANE MILES PUBLIC: 1.05
PROJECT LANE MILES PRIVATE: 0
CONSTRUCTION PLANS AND CERTIFIED RECORD DRAWINGS, "AS-BUILT" ARE REQUIRED PRIOR TO COUNTY ACCEPTANCE AND ESTABLISHMENT OF THE ROADS AND DRAINAGE FACILITIES FOR MAINTENANCE.
PERMIT REQUIRED! (509) 477-3053
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

PROJECT APPLICANT
Thomas L. Bramsmith 12/17/04
AHO CONSTRUCTION DATE



TYPICAL UTILITY LOCATIONS

NTS

HOPPER DENNIS JELLISON P.L.L.C.
ENGINEERS & PLANNERS
707 W. 37th Street
Vancouver, WA 98660-2627
(360) 695-3498
(503) 194-4005
FAX (360) 695-8767
Internet: www.hdjengineers.com
EXPIRES: FEB 14, 2006

12-17-04

34/36

PROJECT NAME:	BIG SKY – PHASE 2
SHEET LIMITS:	MISCELLANEOUS DETAILS
PROJECT LIMITS:	HALLET ROAD & THOMAS MALLEN ROAD
TYPE OF IMPROVEMENT:	DETAILS
CITY PROJECT NUMBER	CITY PLAN NUMBER
	DETAILS 7-24-42

CALL BEFORE YOU DIG 456-8000

P-1918A Eng Prel Drawings

DATE	BY	PROJ.	DESCRIPTION	DATE	BY	PROJ.	E.F.N.	U.S.N.	FROM	TO
REVISIONS				RECORD						

COUNCIL ACCEPT DATE	FROM	TO	ORD. NO.	DATE	FILE NO.
GRADE ESTABLISHMENTS					

NAVD88 — (OLD CBM ELEV.) - (1.13) AC OF JANUARY, 2000 USE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
BENCH MARK LOCATION: A WSDOT 3" BRASS DISK IN MONUMENT CASE LOCATED IN THE INTX OF GEIGER RD & HATFORD RD ELEV = 2408.49' NAVD29 DATUM
NAVD88 ELEV. 2412.29
OLD CBM ELEV.
CBM NO.
NAVD88 DATUM
BASE ON ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, NOTE AS SCALES ACCORDINGLY
SCALE
HORIZONTAL
PLANIMETRIC
VERTICAL
PROFILE ONLY

SPOKANE

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB.1995		
LAST PROJECT BY		DATES
DESIGNED:	CDS	
REVISED:		
DRAWN:	TGJ	
APPROVED:	TGL	

PROTOCOD.DWG REV. 11/27/2002

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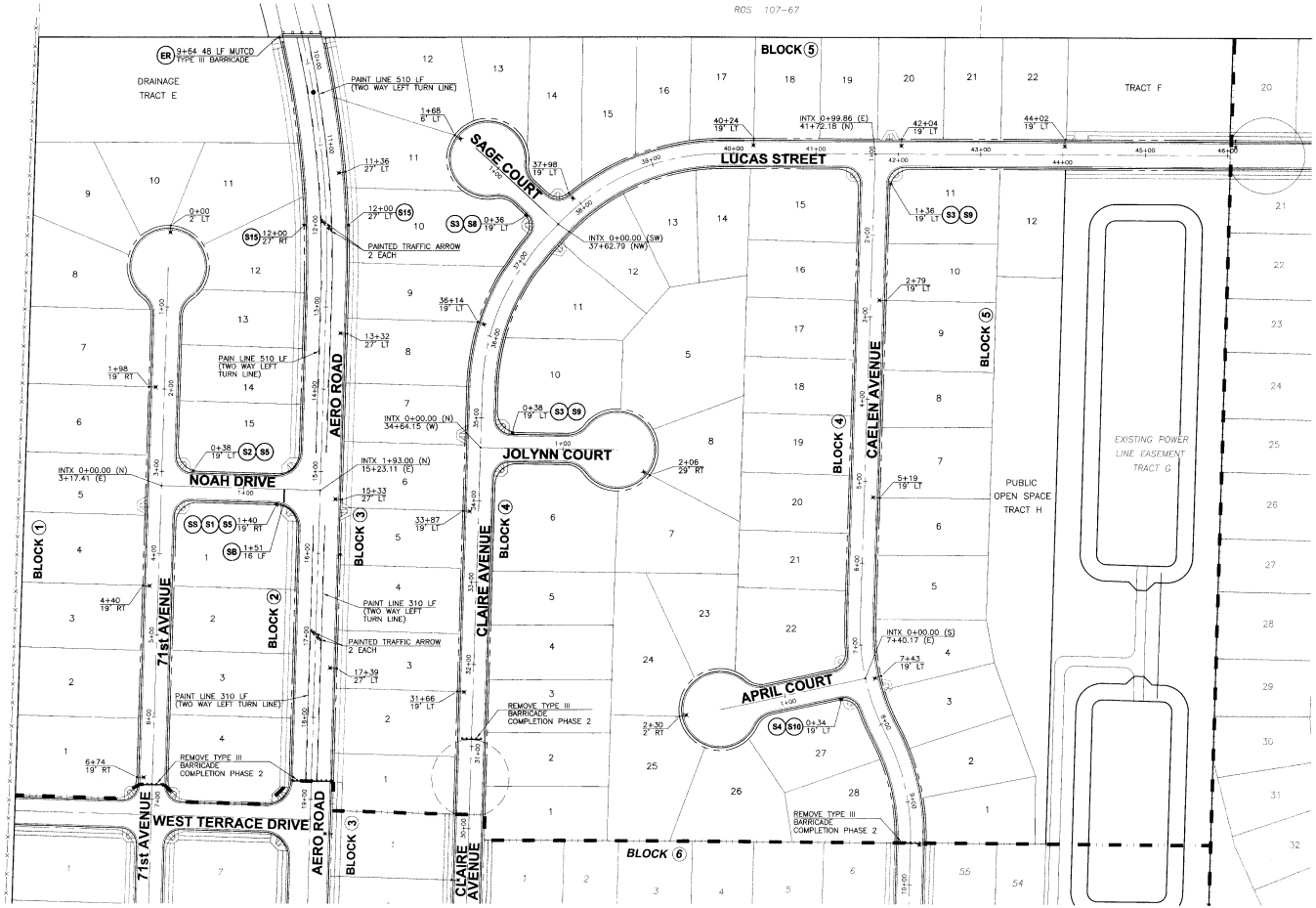

LEGEND

S5	STOP, MUTCD R1-1
S8	PAINTED STOP LINE, 18" WIDE
S1	STREET NAME (AERO ROAD) MUTCD D-3
S2	STREET NAME (71st AVENUE) MUTCD D-3
S3	STREET NAME (CLAIRE AVENUE) MUTCD D-3
S4	STREET NAME (CAELEN AVENUE) MUTCD D-3
S5	STREET NAME (NOAH STREET) MUTCD D-3
S6	STREET NAME (WEST TERRACE DRIVE) MUTCD D-3
S7	STREET NAME (LUCAS STREET) MUTCD D-3
S8	STREET NAME (SAGE COURT) MUTCD D-3
S9	STREET NAME (JOLYNN COURT) MUTCD D-3
S10	STREET NAME (APRIL COURT) MUTCD D-3
S11	STREET NAME (ASHER AVENUE) MUTCD D-3
S12	STREET NAME (SPENCER COURT) MUTCD D-3
S13	STREET NAME (NICK AVENUE) MUTCD D-3
S14	STREET NAME (HALLET ROAD) MUTCD D-3
S15	TWO WAY LEFT TURN ONLY MUTCD R3-9b (24"x36")
ER	END OF ROAD MARKERS - MOUNT ON TOP OF EACH TYPE III BARRICADE POST (SEE DETAIL)
	MUTCD TYPE III BARRICADE
	LUMINAIRE
	STREET SIGN
	PAINTED TRAFFIC ARROW
	PAINT LINE, PER SECTION 8-22 WSDOT 2004 STANDARD SPECIFICATIONS

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: 2-19184
DATE ACCEPTED: 11/14/15
ACCEPTANCE EXPIRES: 11/14/18
PROJECT LANE MILES PUBLIC: 1.04
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

PROJECT APPLICANT
ARO CONSTRUCTION DATE 12/29/14

HOPPER DENNIS JELLISON P.L.L.C.
ENGINEERS & PLANNERS
314 W. 11th Street
Vancouver, WA 98660-2927
(360) 695-3488
(503) 724-4005
FAX (360) 695-0767
Internet: www.hdjengineers.com

STATE OF WASHINGTON
DAVID R. PETERSON
EXPIRES: SEPT 27, 2005
12-17-14

36/36

PROJECT NAME: BIG SKY – PHASE 2

SHEET LIMITS: SIGNING, STRIPING, & ILLUMINATION

TYPE OF IMPROVEMENT:

CITY PROJECT NUMBER | CITY PLAN NUMBER

PROJECT LIMITS: HALLET ROAD & THOMAS MALLEN ROAD

CALL BEFORE YOU DIG 456-8000

P-19184 Eng Road Drawings

DATE	BY	PROJ.	DESCRIPTION	DATE	BY	PROJ.	E.P.N.	U.S.N.	FROM	TO
REVISIONS										

COUNCIL ADOPT. BY N.	FROM	TO	ORD. NO.	DATE	FILE NO.
GRADE ESTABLISHMENTS					

NAVD88 = (OLD CITY ELEV.) - (13.13) AS OF JANUARY, 2000 USE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
BENCH MARK LOCATION: A WSDOT 3" BRASS DISK IN MONUMENT CASE LOCATED IN THE INTX OF GEIGER RD & HAYFORD RD ELEV IS 2408.49 NAVD28 DATUM
NAVD88 ELEV.: 2412.29
CITY OF SPOKANE DATUM
CITY NO.:
SHE IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
HORIZONTAL: 1"=60'
PLAN/PROFILE
VERTICAL
PROFILE ONLY: N/A
SCALE

		LAST PROJECT BY	DATES
DRAWN:	LRC		7/20
REVISED:			
CHECKED:	LDG		7/20
APPROVED:	JRW		7/20

CURRENT CITY/COUNTY DESIGN STANDARDS ADOPTED FEB.1990

CITY OF SPOKANE, WASHINGTON
DEPARTMENT OF ENGINEERING SERVICES
808 WEST SPOKANE FALLS BLVD.
SPOKANE, WASHINGTON 99201-3343
(509) 625-6300

PROTO2002.DWG REV 11/27/2002

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