NE¼ SEC. 29, T.27N., R.43E., W.M.

# STREET AND DRAINAGE PLANS
# WINDSOR ESTATES
## PHASE 4
## NE 1/4, SEC. 29, T.27 N., R. 43 E., W.M.
## SPOKANE COUNTY, WA

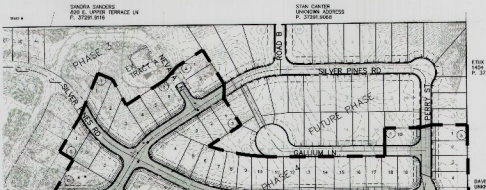
**RECORD DRAWING**

UNDERGROUND SERVICE ALERT
CHECK-CALL NUMBER
811
CALL TWO WORKING DAYS BEFORE YOU DIG

VICINITY MAP

## LEGEND

| EXISTING | DESCRIPTION | PROPOSED |
|---|---|---|
| | ROADWAY CENTER LINE | |
| | RIGHT OF WAY LINE | |
| | PROPERTY LINE | |
| | EASEMENT LINE | |
| | FENCE | |
| | CURB | |
| | FLOWLINE | |
| | EDGE PAVEMENT | |
| | CONCRETE | |
| | BUILDINGS & STRUCTURES | |
| | MONUMENT | |
| | **SEWER** | |
| | SANITARY SEWER | |
| | MANHOLE | |
| | SANITARY SEWER SERVICE | |
| | **WATER** | |
| | WATER LINE | |
| | VALVE | |
| | FIRE HYDRANT | |
| | BLOWOFF | |
| | WATER METER | |
| | SLEEVE | |
| | AIR VACUUM RELIEF STATION | |
| | **DRAINAGE** | |
| | DRAINAGE LINE | |
| | MANHOLE | |
| | CATCH BASIN | |
| | CATCH BASIN | |
| | DITCH | |
| | **GAS** | |
| | GAS LINE | |
| | VALVE | |
| | METER | |
| | **TELE-POWER** | |
| | BURIED TELEPHONE | |
| | POWER OR TELEPHONE POLE | |
| | TELEPHONE POLE | |
| | TRANSFORMER PAD | |
| | TELEPHONE RISER | |
| | POWER RISER | |
| | OVERHEAD POWER | |
| | GUY ANCHOR | |
| | POWER VAULT | |
| | LIGHT POLE | |




STREET COVER
SCALE: 1"=100'

GRAPHIC SCALE
100 0 100 200
(IN FEET)
1 inch = 100 ft.

## SHEET INDEX


| | |
|---|---|
| C0.0 | COVER SHEET |
| C0.1 | GENERAL NOTES |
| C0.2 | TYPICAL CROSS SECTIONS & NOTES |
| C3.0 | SILVER PINES RD TO PASKE RD P & P |
| C3.1 | PASKE /SILVER PINES RD & NEVADA LN P&P |
| C3.2 | TRACT E/ST & ROAD A P&P |
| C3.3 | STREET DETAILS |
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| C5.0 | TRACT A & TRACT B STORM PIPE PLAN AND PROFILE |
| C5.1 | TRACT C & TRACT D STORM PIPE PLAN AND PROFILE |
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| ~~C9.0~~ | ~~SWPPP/EROSION CONTROL COVER SHEET~~ |
| ~~C9.1~~ | ~~SWPPP NOTES~~ |


## ABBREVIATIONS

| | | | | | |
|---|---|---|---|---|---|
| ACS | ACTUAL STATION | GRADE BREAK | PRC | POINT OF REVERSE CURVE |
| BOW | BEGINNING OF SURVEY BASELINE | GRAVEL PIT FILL | PT | POINT OF TANGENCY |
| BURY | BURIED(ED) | HORIZONTAL | PVC | PVC DEFLECTION |
| CB | CATCH BASIN(S) | INVERT ELEVATION | R | RADIUS |
| CDS | CRUSHED SURFACE | LEFT | REF | REFER |
| CL | CENTERLINE | MAXIMUM | RP | REFERENCE POINT |
| CY | CUBIC YARD | MINIMUM | S | SUBTRACT |
| EOW | END OF SURVEY BASELINE | NOT TO SCALE | SD | STORM DRAIN |
| EOS | END OF SURVEY BASELINE | NOT TO SCALE | STA | STATION |
| ERCV | EROSION | PETROLEUM | TC | TOP OF CRATE |
| FL | GRADE | POINT OF INTERSECTION | TG | TOP OF CURB |

SPOKANE COUNTY WASHINGTON
OFFICIAL PUBLIC DOCUMENT
ORIGINAL
"AS-BUILTS"
CERTIFIED RECORD DRAWINGS
PROJECT #: 17-1762
DATE ACCEPTED: 11/5/18

### SEWER
SPOKANE COUNTY
ENVIRONMENTAL SERVICES
1026 WEST BROADWAY AVENUE
SPOKANE, WA 99260
SPOKANE - WASHINGTON WIRING
CONTACT: CHRIS KNUDSON

### WATER
WEITHORTH WATER DISTRICT #7
13815 WABERS ROAD
SPOKANE, WA 99216
PHONE: 509-466-0200
FAX: 509-467-1830
CONTACT: DOUG BABIN

### HEALTH
SPOKANE REGIONAL HEALTH
1101 WEST COLLEGE AVENUE
SPOKANE, WA 99201
PHONE: 509-324-1576
FAX: 509-324-3603
CONTACT: PAUL SAVAGE

### GAS/POWER
AVISTA UTILITIES
1411 E. MISSION AVENUE
SPOKANE, WA 99220
PHONE: 509-495-2467
FAX: 509-495-8174
CONTACT: JOHN LUSE

### CABLE
COMCAST BROADBAND
1717 EAST BICKEYE
SPOKANE, WA 99207
PHONE: 509-755-4777
FAX: 509-755-4863
CONTACT: PATRIK WEINBERGER

### SOLID WASTE
WASTE MANAGEMENT
SPOKANE, WASHINGTON
PHONE: 509-466-3400

### FIRE
FIRE DISTRICT NO. 9
3801 EAST FARMER ROAD
MEAD, WASHINGTON 99021
PHONE: 509-466-4607
FAX: 509-466-4668
CONTACT: DAN WALSH

### TELEPHONE
CENTURY LINK
520 NORTH COLUMBUS
SPOKANE, WA 99202
PHONE: 509-623-3067
FAX: 509-455-3104
CONTACT: TIM GREENWOOD

### SURVEY-CONST.
BRAPPEL CONSULTING ENGINEERS
21 S. PINES RD.
SPOKANE VALLEY, WA 99206
PHONE: 509-926-0227
CONTACT: JON GORDON, P.L.S.

### STREETS
SPOKANE COUNTY ENGINEERS
1026 WEST BROADWAY AVENUE
SPOKANE, WASHINGTON 99260
PHONE: 509-477-3600
FAX: 509-477-7655
CONTACT: GARY HYBERG, P.E.

### SURVEYOR-PRELIM
PAT MOORE AND ASSOCIATES, P.S.
1428 WEST MANSFIELD AVENUE
SPOKANE, WA 99201
PHONE: 509-328-1224
FAX: 509-328-3191
CONTACT: PAT J. MOORE, P.L.S.

### INSPECTION
P.E.C.
P.O. BOX 1566
SPOKANE VALLEY, WA 99037
PHONE: 208-4242
CONTACT: PAUL T. NELSON, P.E.

### ENGINEER
BRAPPEL CONSULTING ENGINEERS
21 S. PINES RD.
SPOKANE VALLEY, WA 99206
PHONE: 509-926-0227
CONTACT: TODD S. WHIPPLE, P.E.

### OWNER
HANCOCK DEVELOPMENT
1426 W. GARLAND
SPOKANE, WA 99201
PHONE: 509-951-4976
CONTACT: TRAVIS PASKE

DAN T. MILLER
STATE OF WASHINGTON
11-5-18

I HAVE REVIEWED THE CONSTRUCTION AND TO MY KNOWLEDGE AND BELIEF IT IS IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED DRAWINGS AND ANY CHANGES NOTED OR STATED EXCEPT AS NOTED.

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL FILE DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #: _____
DATE ACCEPTED: _____
ACCEPTANCE EXPIRES: _____
PROJECTS LANE NEES: PUBLIC _____
PROJECTS LANE NEES: PRIVATE _____
CONSTRUCTION DOCUMENTATION AND RECORD DRAWINGS, "AS-BUILTS" ARE REQUIRED PRIOR TO FINAL ACCEPTANCE. ACCEPTANCE OF THESE PLANS DOES NOT GUARANTEE FUTURE ACCEPTANCE OF THE PROJECT FOR PUBLIC MAINTENANCE.
FORM PUBLIC WORKS 2 SUBMITTED DATE: _____ FORM 10 SUBMITTED DATE: _____

DAN T. MILLER
STATE OF WASHINGTON
11-5-18

NAVD - 88 DATUM
VERTICAL DATUM BASED ON CURRENT SPOKANE COUNTY BENCHMARK LOCATIONS. THE BENCHMARK USED FOR THIS PROJECT IS THE SPOKANE COUNTY BENCHMARK CONC. #1209/SR-195 & 6TH/N-WAHKIAKUM COUNTY-1983 DTM

| NO | DATE | BY | REVISIONS |
|---|---|---|---|
| 1 | 09/09/18 | CTR | STORMWATER REVISIONS |

| SCALE: | |
|---|---|
| HORIZONTAL: | 1" = 100' |
| VERTICAL: | N/A |

| | |
|---|---|
| PROJ #: | 17-1762 |
| DATE: | 08/08/18 |
| DRAWN: | CTR |
| REVIEWED: | TBW |

CIVIL
STRUCTURAL
MECHANICAL
ELECTRICAL
SURVEY
PLANNING
LANDSCAPE
CIVIL

IWCE
INTER-WEST CONSULTING ENGINEERS
PLANNERS - SURVEYORS
1426 W. GARLAND AVENUE
SPOKANE, WASHINGTON 99201
PH: 509-326-4000 FAX: 509-326-4009

**WINDSOR ESTATES EAST**
**COVER SHEET**
**HATCH ROAD**
**SPOKANE COUNTY, WASHINGTON**

SHEET
C0.0
JOB NUMBER
17-1762

NE¼, SEC.29, T.27N., R.43E., W.M.

# RECORD DRAWING

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL TWO BUSINESS DAYS BEFORE YOU DIG

## WCE GENERAL NOTES

1. ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION OF SITE IMPROVEMENTS SHALL MEET OR EXCEED SITE WORK STANDARDS AND THE STANDARDS AND SPECIFICATIONS SET FORTH IN THE *SPOKANE COUNTY* REGULATIONS AND APPLICABLE STATE AND FEDERAL REGULATIONS. WHERE THERE IS CONFLICT BETWEEN THESE PLANS AND THE SPECIFICATIONS, OR ANY APPLICABLE STANDARDS, THE HIGHER QUALITY STANDARD SHALL APPLY. ALL WORK WITHIN PUBLIC R.O.W. OR EASEMENTS SHALL BE INSPECTED AND APPROVED BY THE *SPOKANE COUNTY* INSPECTOR. INSPECTION SERVICES AND CONSTRUCTION CERTIFICATION TO BE PROVIDED BY DESIGNEE OF PROJECT SPONSOR/OWNER.

2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY PERTINENT LOCATIONS AND ELEVATIONS, ESPECIALLY AT THE CONNECTION POINTS AND AT POTENTIAL UTILITY CONFLICTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL NOTIFY THE *SPOKANE COUNTY* INSPECTOR AT LEAST 48 HOURS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITY OR CONSTRUCTION ON ANY AND ALL PUBLIC IMPROVEMENTS.

4. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE *SPOKANE COUNTY* AND ALL UTILITY COMPANIES WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OF EXISTING UTILITIES DURING CONSTRUCTION, TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION, AND WITH A MINIMUM DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PARTIES AFFECTED BY ANY DISRUPTION OF ANY UTILITY SERVICE.

5. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE APPROVED PLANS, ONE (1) COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS, AND ONE (1) COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED FOR THE JOB ON-SITE AT ALL TIMES.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO: EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.

7. IF, DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED BY THE CONTRACTOR, HIS SUBCONTRACTORS, OR OTHER AFFECTED PARTIES WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.

8. ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.

9. FOR WORK AFFECTING PUBLIC ROADWAYS OR IF REQUIRED BY THE *SPOKANE COUNTY*, THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL AND PHASING PLAN IN ACCORDANCE WITH M.U.T.C.D. FOR APPROVAL. PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN OR AFFECTING THE RIGHT-OF-WAY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY AND ALL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED BY SAID PLANS. PRIOR TO INSTALLATION.
A PRECONSTRUCTION CONFERENCE SHALL BE HELD WITH THE *SPOKANE COUNTY*.

10. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR THE COMPLETION OF THE INTENDED IMPROVEMENTS SHOWN ON THESE DRAWINGS OR DESIGNATED TO BE PROVIDED, INSTALLED, CONSTRUCTED, REMOVED OR RELOCATED UNLESS SPECIFICALLY NOTED OTHERWISE.

11. PER AGENCY STANDARDS THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING RECORD INFORMATION ON A SET OF RECORD DRAWINGS KEPT AT THE CONSTRUCTION SITE AND AVAILABLE TO THE *SPOKANE COUNTY* INSPECTOR AT ALL TIMES.

13. DIMENSIONS FOR LAYOUT AND CONSTRUCTION ARE NOT TO BE SCALED FROM ANY DRAWING. FOR ADDITIONAL INFORMATION CONTACT THE ENGINEER FOR CLARIFICATION AND NOTE ON THE RECORD DRAWINGS.

14. ALL EROSION AND SEDIMENT CONTROL (E.S.C.) MEASURES SHALL BE INSTALLED AT THE LIMITS OF CONSTRUCTION PRIOR TO GROUND DISTURBING ACTIVITY. ALL E.S.C. MEASURES SHALL BE MAINTAINED IN GOOD REPAIR BY THE CONTRACTOR UNTIL SUCH TIME AS THE ENTIRE DISTURBED AREAS ARE STABILIZED WITH HARD SURFACE OR LANDSCAPING.

15. THE CONTRACTOR SHALL SEQUENCE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO MINIMIZE POTENTIAL UTILITY CONFLICTS. IN GENERAL, STORM SEWER AND SANITARY SEWER SHOULD BE CONSTRUCTED PRIOR TO INSTALLATION OF WATER LINES AND DRY UTILITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL UTILITY RELOCATIONS CONSISTENT WITH THE CONTRACTORS SCHEDULE FOR THIS PROJECT, WHETHER SHOWN OR NOT SHOWN, AS IT RELATES TO THE CONSTRUCTION ACTIVITIES CONTEMPLATED IN THESE PLANS.

16. ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY IS SUBJECT TO THE JURISDICTION OF THE *SPOKANE COUNTY* ENGINEERING DEPARTMENT STANDARD DETAILS AND SPECIFICATIONS.

17. ALL CONSTRUCTION OPERATIONS, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE OR RUNNING OF TRUCKS, EARTH MOVING EQUIPMENT, CONSTRUCTION EQUIPMENT AND ANY OTHER ASSOCIATED EQUIPMENT SHALL GENERALLY BE LIMITED TO THE TIME PERIOD APPROVED BY THE *SPOKANE COUNTY*.

BASED ON REQUIREMENTS FROM *SPOKANE COUNTY*, THE ENGINEER OR HIS DESIGNEE SHALL PERFORM MATERIALS TESTING AND QUALITY CONTROL ON THE PROJECT AND SHALL SUBMIT COPIES OF DAILY REPORTS, TEST REPORTS, PROJECT CERTIFICATION AND RECORD DRAWINGS TO *SPOKANE COUNTY* ENGINEER.

18. NO REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT APPROVAL OF THE *SPOKANE COUNTY* ENGINEERS AND NOTIFICATION OF THE ENGINEER OF RECORD.

19. ON-SITE GRADING SHALL BE IN ACCORDANCE WITH THE APPROVED GRADING PLAN AND E.S.C. PLAN. ANY IMPORT OR EXPORT OF MATERIAL SHALL BE FROM A PREAPPROVED SOURCE/DESTINATION AND COORDINATED WITH THE CITY/COUNTY *SPOKANE COUNTY* DEPARTMENT OF BUILDING AND PLANNING AT ***COUNTY 509-477-3675***. GRADING ON THIS SITE OR ANY OTHER SITE MUST COMPLY WITH ALL DEVELOPMENT REGULATIONS INCLUDING, BUT NOT LIMITED TO , GRADING PERMITS, S.E.P.A. REVIEW, TIMBER HARVEST PERMITS, CRITICAL AREAS, FLOOD PLAINS, DESIGNATED DRAINAGE WAYS, ETC.

20. THE CONTRACTOR IS CAUTIONED THAT IT IS THE UNDERSTANDING OF THE OWNER AND THE ENGINEER THAT SHOULD A CONFLICT OR DISCREPANCY IN THESE PLANS, SPECIFICATIONS, GENERAL NOTES OR PLANS ET.AL. DETERMINED TO BE PART OF THE OVERALL PROJECT, INCLUDING BUT NOT LIMITED TO THE ARCHITECTURAL PLANS, MECHANICAL PLANS, ELECTRICAL PLANS, LANDSCAPE PLANS, GENERAL SPECIAL PROVISIONS, ETC., THAT WITHOUT WRITTEN CLARIFICATION FROM THE ENGINEER, OWNER OR OTHER PROFESSIONAL, DURING THE BIDDING PROCESS, THAT IN ALL INSTANCES THE CONTRACTOR WILL BE REQUIRED TO BID THE HIGHER STANDARD. FAILURE TO DO SO MAY RESULT IN THE HIGHER STANDARD BEING REQUIRED BY THE OWNER, ENGINEER OR OTHER PROFESSIONAL WITH NO CHANGE IN VALUE TO THE CONTRACT VIA CHANGE ORDER OR OTHER MECHANISM.

21. CONSTRUCTION OF EVERY DRYWELL, INCLUDING FABRIC AND DRAINROCK, SHALL BE OBSERVED BY THE ON-SITE INSPECTOR TO CONFIRM THAT IT MEETS THE DESIGN DETAILS AND SPECIFICATIONS. DRYWELLS NOT OBSERVED SHALL HAVE THEIR PERFORMANCE VERIFIED BY A FULL-SCALE DRYWELL TEST.

22. CONSTRUCTION OF EVERY DRYWELL, INCLUDING FABRIC AND DRAINROCK, SHALL BE OBSERVED BY THE ON-SITE INSPECTOR TO CONFIRM THAT IT MEETS THE DESIGN DETAILS AND SPECIFICATIONS. DRYWELLS NOT OBSERVED SHALL HAVE THEIR PERFORMANCE VERIFIED BY A FULL-SCALE DRYWELL TEST.

23. DURING CONSTRUCTION THE CONTRACTOR IS RESPONSIBLE TO COORDINATE ANY AND ALL INCONSISTENCIES BETWEEN THESE PLANS AND CONSTRUCTION STAKING. CONTRACTOR ASSUMES RESPONSIBILITY TO CONSTRUCT TO THESE PLANS IN LIEU OF FIELD STAKING. SHOULD INCONSISTENCIES BE APPARENT THE CONTRACTOR SHALL CONTACT THE ENGINEER, OWNER, AND SURVEYOR TO RECTIFY THE DISCREPANCY PRIOR TO CONSTRUCTION EFFORT BEING APPLIED.

24. FAIR HOUSING ACT – SAFE HARBORS FOR COMPLIANCE

WHIPPLE CONSULTING ENGINEERS, INC. FOR THE PROJECT CONTAINED WITHIN THESE PLANS HAS USED THE FOLLOWING SAFE HARBOR FOR ADA ACCESSIBILITY FOR THOSE ISSUES CONSIDERED SITE DEVELOPMENT ISSUES.

ICC/ANSI A117.1 (2003), ALONG WITH THE FAIR HOUSING ACT, HUD'S FAIR HOUSING ACT REGULATIONS, AND GUIDELINES.

25. ALL FIRE LINES MUST BE INSTALLED BY AN APPROVED LEVEL 'U' CONTRACTOR OR A LEVEL 3 FIRE PROTECTION CONTRACTOR.

## WCE GRADING NOTES

1. CONTOURS AND / OR ELEVATIONS SHOWN ARE FOR FINISHED PAVING, SIDEWALK, SLAB, OR GROUND. ADJUSTMENT TO SUBGRADE IS THE CONTRACTOR'S RESPONSIBILITY.

2. ALL DISTURBED AREAS THAT ARE SUBSURFACE OR ARE NOT DESIGNATED AS LANDSCAPE AREAS ARE TO BE SEEDED, FERTILIZED, AND WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.

3. IF DURING THE OVERLOT GRADING PROCESS, CONDITIONS ARE ENCOUNTERED WHICH COULD INDICATE AN UNIDENTIFIED SITUATION IS PRESENT, THE SOILS ENGINEER SHALL BE CONTACTED FOR RECOMMENDATIONS.

4. UNLESS OTHERWISE SHOWN, NO PROPOSED SLOPE SHALL EXCEED THREE (3) HORIZONTAL TO ONE (1) VERTICAL. ALL SLOPED AREAS MUST BE PROTECTED FROM EROSION.

5. IF STRIPPED MATERIALS CONSISTING OF VEGETATION AND ORGANIC MATERIALS ARE STOCKPILED ON THE SITE, TOPSOIL MAY BE PLACED TO A HEIGHT OF FIVE FEET. SILT FENCE SHALL BE PLACED AROUND THE BASE OF THE STOCKPILE AND THE STOCKPILE SHALL BE SEEDED WITH NATIVE SEED MIX IMMEDIATELY AFTER STRIPPING OPERATIONS ARE COMPLETE.

6. SPOT ELEVATIONS SHALL TAKE PRECEDENCE OVER CONTOURS AND SLOPES SHOWN. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF SPOT ELEVATIONS THAT DO NOT APPEAR TO BE CONSISTENT WITH THE CONTOURS AND SLOPES. SPOT ELEVATIONS AND SPECIFIC PROFILE DESIGN SHALL BE USED FOR SETTING ELEVATIONS OF CURB, GUTTER, AND UTILITIES.

7. BENCHMARK VERIFICATION: CONTRACTOR SHALL USE BENCHMARKS AND DATUMS SHOWN HEREON TO SET PROJECT BENCH MARK'S, BY RUNNING A LEVEL LOOP BETWEEN AT LEAST TWO BENCHMARKS, AND SHALL PROVIDE SURVEY NOTES OF SUCH TO PROJECT ENGINEER PRIOR TO COMMENCING CONSTRUCTION.

8. ALL UTILITIES (MANHOLES, VALVE COVERS, CLEANOUTS, VAULTS, BOXES, ETC.) SHALL BE ADJUSTED TO FINAL GRADE PRIOR TO THE FINAL LIFT OF ASPHALT.

9. GRADES WITHIN ASPHALT PARKING AREAS SHALL BE CONSTRUCTED TO WITHIN 0.10 FEET OF THE DESIGN GRADE. HOWEVER, THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE IN ALL PAVEMENT AREAS AND ALONG ALL CURBS. ALL CURBS SHALL BE BUILT IN ACCORDANCE TO THE PLAN. CURBS OR PAVEMENT AREAS WHICH DO NOT PROVIDE PROPER DRAINAGE MUST BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

10. SPOT ELEVATIONS REPRESENT FLOW LINE OR TOP OF ASPHALT UNLESS OTHERWISE NOTED.

11. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING HIS OWN ESTIMATE OF EARTHWORK QUANTITIES.

12. WHERE NEW CURB AND GUTTER IS BEING CONSTRUCTED ADJACENT TO EXISTING ASPHALT OR CONCRETE PAVEMENT, THE FOLLOWING SHALL APPLY: PRIOR TO PLACEMENT OF ANY CONCRETE THE CONTRACTOR SHALL HAVE A LICENSED SURVEYOR VERIFY THE GRADE AND CROSS SLOPE OF THE CURB AND GUTTER FORMS. THE CONTRACTOR SHALL SUBMIT THE SLOPES AND GRADES TO THE ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF CONCRETE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY SECTION WHICH DOES NOT CONFORM TO THE DESIGN OR TYPICAL CROSS SECTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CURB AND GUTTER POURS WITHOUT THE APPROVAL OF THE ENGINEER.

13. THE EARTHWORK FOR ALL BUILDING FOUNDATIONS AND SLABS SHALL BE IN ACCORDANCE WITH ARCHITECTURAL BUILDING PLANS AND SPECIFICATIONS.

14. PRE CAST STRUCTURES MAY BE USED AT CONTRACTORS OPTION.

15. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.

16. EXISTING GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT INTERVALS.

17. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.

18. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.

19. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.

20. TOPOGRAPHIC INFORMATION TAKEN FROM A TOPOGRAPHIC SURVEY PROVIDED BY THE OWNER . IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS. WITHOUT EXCEPTION, HE SHALL HAVE MADE, AT HIS EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW.

21. ALL SUBSURFACE AREA DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER. (CONTRACTOR SHALL PLACE SOD OR HYDROSEED DISTURBED AREAS IN ACCORDANCE WITH CITY/COUNTY SPECIFICATIONS AND MAINTAINED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.) HYDROSEED WITH TACKIFIER OVER A CORDUROY SLOPE MAY BE ACCEPTABLE, THE SITE GEOTECHNICAL ENGINEER MUST BE CONSULTED.

22. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND SITE SHALL BE CONSTRUCTED TO SAME.

23. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES AND NOTIFYING THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING CONSTRUCTION.

24. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

25. ENGINEER SHALL BE NOTIFIED WHEN 'CURBING STRING LINE' HAS BEEN SET, PRIOR TO CURBING BEING INSTALLED.

26. ALL DRYWELLS TO BE INSTALLED TO HAVE (1') ONE OF VERTICAL ADJUSTMENT.

27. ENGINEERING OR THE OWNER'S INSPECTION REPRESENTATIVE SHALL BE ON SITE, AND SHALL COLLECT TRUCK TICKETS FOR DRYWELL ROCK, AND SOIL.

28. ALL PIPE SHALL BE INSTALLED WITH EITHER A SAND COLLAR, KOR-N-SEAL OR APPROVED EQUIVALENT.

## WCE STORM DRAINAGE NOTES

1. SEE STREET PLAN AND PROFILE SHEETS FOR DRYWELL AND CATCH BASIN TYPES AND LOCATIONS.

2. SWALE/PONDS SHALL BE CONSTRUCTED PER THE REQUIREMENTS OF THESE DRAWINGS INCLUDING GRADING, SOD, AND DRYWELL INSTALLATION. ALL SWALES/PONDS WITH IN TRACTS SHALL INCLUDE AN IRRIGATION SYSTEM. ALL IRRIGATION SHALL CONFORM TO CITY OF SPOKANE SWALE/POND IRRIGATION SYSTEM GUIDELINES.

3. ALL SWALES/PONDS SHOWN SHALL BE ROUGH GRADED PRIOR TO PAVING OF ADJACENT ROADWAY.

4. CONTRACTOR SHALL PROVIDE CITY OF SPOKANE WITH AS-BUILT IRRIGATION PLANS UPON COMPLETION OF ALL SWALE/POND CONSTRUCTION.

5. INSTALL "AMOCO" #4545 FILTER FABRIC (OR APPROVED EQUAL) BETWEEN THE NATIVE SOIL AND WASHED DRAIN ROCK, FOR ALL DRYWELLS. SEE CITY OF SPOKANE STANDARD PLAN B-102C FOR INSTALLATION LOCATIONS.

6. ALL SWALES/PONDS WITHIN THE RIGHT-OF-WAY, IN THE AREA ASSOCIATED WITH THIS PROJECT, SHALL BE COMPLETED DURING THE CONSTRUCTION OF THE ROADWAY. THE CONTRACTOR SHALL PERFORM THE SWALE/POND GRADE WORK, INSTALL THE IRRIGATION SYSTEM, AND PLACE THE SOD WITHIN THE SWALES/PONDS FOLLOWING THE ROAD PAVING WORK.

7. THE CONTRACTOR SHALL MAKE AN EFFORT TO PROTECT ALL DRAINAGE STRUCTURES FROM BEING CONTAMINATED WITH SILT BY INSTALLING FILTER FABRIC UNDER THE LID FOR AT LEAST 6 WEEKS, OR UNTIL THE ESTABLISHMENT OF GRASS AND/OR OTHER SITE CONSTRUCTION WORK HAS ENDED. IN THE EVENT THAT SILT OR OTHER DELETERIOUS MATERIAL IS ALLOWED TO ENTER THE DRYWELL OR CATCH BASIN THE CONTRACTOR WILL BE REQUIRED TO CLEAN THE DRYWELL OR CATCH BASIN OUT TO THE SATISFACTION OF THE CERTIFYING ENGINEER,

8. ALL LANDSCAPE AREAS (INCLUDING SWALES/PONDS) ARE TO BE IRRIGATED BY AN AUTOMATIC IRRIGATION SYSTEM SHALL BE INSTALLED BY OR UNDER THE DIRECTION OF THE LANDSCAPE CONTRACTOR. THE IRRIGATION SYSTEM SHALL COMPLY WITH ALL LOCAL CODES AND ORDINANCES (90 DAY GUARANTEE). AN APPROVED BACKFLOW DEVICE SHALL BE INSTALLED TO PREVENT WATER FOR GOING BACK INTO THE WATER SUPPLY.

9. THE FLOOR OF ALL GRASSED PERCOLATION AREAS (GPA) (SWALES/PONDS) INCLUDES THE LEVEL PORTION OF THE FLOOR OF THE SWALES, AND THE SIDE SLOPES OF THE SWALE UP TO THE GPA OVERFLOW ELEVATION OR TOP OF DRYWELL. THE SOIL LOCATED IN THE FLOOR OF THE THE GPA SWALE SHALL BE A MEDIUM TO WELL-DRAINING MATERIAL, WITH A MINIMUM INFILTRATION RATE OF 0.5 INCHES PER HOUR. THE ENGINEER SHALL PROVIDE A WRITTEN STATEMENT WHICH VERIFIES THAT ALL GPA SWALES CONFORM TO THIS REQUIREMENT. THIS WRITTEN STATEMENT SHALL BE SUBMITTED TO THE SPOKANE COUNTY ENGINEER'S OFFICE PRIOR TO INSTALLING FINISHED LANDSCPING/SOD AND PRIOR TO FINAL ACCEPTANCE. THE SWALE FLOOR MATERIAL SHALL BE INSTALLED TO A NATIVE SOIL STRATUM WHICH ALSO MEETS OR EXCEEDS THIS MINIMUM PERCOLATION RATE OF 0.5 INCHES PER HOUR, OR AS APPROVED BY SITE GEOTECHNICAL ENGINEER.

10. WHEN TWO OR MORE CURB INLETS ARE USED, SET POND BOTTOM WITH RESPECT TO THE LOWEST CURB INLET GUTTER FLOWLINE ELEVATION.

11. THE TOP 12" OF SOIL FOR ALL SWALE/POND BOTTOMS SHALL CONSIST OF THOROUGHLY BLENDED MIX OF 50% COMPOST WITH 50% NATIVE SOILS, OR AS APPROVED BY SITE GEOTECHNICAL ENGINEER.

12. PER THE S.R.S.M. ALL SWALES/PONDS SHALL HAVE 12" OF TREATMENT SOIL WITH AN INFILTRATION RATE OF 0.5 INCHES/HOUR AND AVERAGE CATION EXCHANGE CAPACITY OF AT LEAST 15 MILLIQUIVELENTS/100 GRAMS OR AT LEAST 2% OF ORGANIC MATER BY WEIGHT. SEE TABLE 6-1, PG. 6-16 OF THE SPOKANE REGIONAL STORMWATER MANUAL, OR AS APPROVED BY SITE GEOTECHNICAL ENGINEER.

13. WARNING: THE USE OF SILTY LOAM IS PROHIBITED AS SWALE/PONDS BOTTOM MATERIAL.

14. ALL DRYWELLS TO HAVE 1' ONE VERTICAL FOOT OF ADJUSTMENT

15. THE ENGINEER SHALL BE ON SITE, AND SHALL COLLECT TRUCK TICKETS FOR THE DRYWELL ROCK AND SOIL.

**SLEEVING:** PROVIDE SLEEVING AS REQUIRED UNDER SIDEWALKS, PATHS, CURBING, PAVING, ETC. AS NEEDED FOR IRRIGATION ACCESS. ALL SLEEVING TO BE 4" PVC WITH AT LEAST 12" OF COVER (1) FOOT BELOW FINISH GRADE. THE OWNER/GENERAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING SLEEVING BEFORE CURBING, SIDEWALKS, PAVING, ETC. IS INSTALLED. PATCH ASPHALT AS NEEDED.

**LAWN AREAS:** LAWN AREAS ARE TO BE IRRIGATED WITH TORO POP-UP HEADS OR EQUIVALENT. (TEST SYSTEM BEFORE BACKFILLING).

**ADJUSTMENT:** AFTER INSTALLATION, ADJUST VALVES, HEADS, EMITTERS, ETC. TO PROVIDE UNIFORM COVERAGE AND TO MINIMIZE OVER SPRAY ON WALLS, FENCES, WALKS, DRIVES, ETC.

**WATER POWER SUPPLY:** THE OWNER/GENERAL CONTRACTOR IS TO SUPPLY WATER TAPS FOR HOOK-UP AND SUPPLY POWER FOR CONTROLLER.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
"AS-BUILTS"
CERTIFIED RECORD DRAWINGS
PROJECT #: P2058
DATE ACCEPTED: 11/13/18

PAUL T NELSON
STATE OF WASHINGTON
37228
REGISTERED PROFESSIONAL ENGINEER
11-5-18

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #:
DATE ACCEPTED:
ACCEPTANCE EXPIRES:
PROJECTS LANE MILES: PUBLIC:
PROJECT LANE MILES PRIVATE:
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

I HAVE REVIEWED THE CONSTRUCTION AND TO MY KNOWLEDGE FIND IT TO BE IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED CERTIFIED PLANS AND STANDARD SPECIFICATIONS EXCEPT AS NOTED.

TODD R. WHIPPLE
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER

### NAVD - 88 DATUM

VERTICAL DATUM BASED ON FOUND TEMPORARY BENCH MARK LOCATED AT (GENERAL LOCATION) 3.4 MILES NORTH OF THE JUNCTION OF SR 395 AND SR 002 TBM = WSDOT BRASS DISK IN CONC. #GP32395-302 & 523.21 M-NAVD88 (CALCULATED 1716.67 FT)

| NO. | DATE | BY | REVISIONS |
|---|---|---|---|
| - | 08/06/18 | CTR | STORMWATER REVISIONS |

| SCALE: | |
|---|---|
| HORIZONTAL: | N/A |
| VERTICAL: | N/A |

| | |
|---|---|
| PROJ #: | 17-1762 |
| DATE: | 09/04/18 |
| DRAWN: | CTR |
| REVIEWED: | TRW |

X CIVIL / STRUCTURAL / SURVEYING / TRAFFIC / PLANNING / LANDSCAPE / OTHER

WCE
WHIPPLE CONSULTING ENGINEERS
21 S. PINES RD.
SPOKANE VALLEY, WA 99206
PH 509-893-2617 FAX 509-926-0227

**WINDSOR ESTATES EAST**
**GENERAL NOTES**
**HATCH ROAD**
**SPOKANE COUNTY, WASHINGTON**

SHEET C0.1

JOB NUMBER 17-1762

## SPOKANE COUNTY STREET NOTES

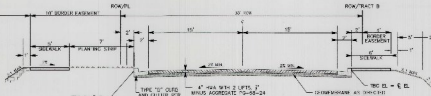
THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, AND EQUIPMENT TO CONSTRUCT AND INSTALL TO PROPER WORKING ORDER ALL IMPROVEMENTS AS DETAILED OR CALLED OUT ON THESE PLANS.

1. ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH THE "SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION, CURRENT EDITION", AND AS AMENDED.
2. THE CONTRACTOR IS REQUIRED TO HAVE A VALID CONSTRUCTION PERMIT ON SITE AT ALL TIMES. THE ABSENCE OF THE PERMIT WILL RESULT IN AN IMMEDIATE SHUTDOWN OF WORK AND THE POSSIBLE REMOVAL OF THOSE ITEMS CONSTRUCTED WITHOUT THE PERMIT.
3. LOCATIONS OF EXISTING UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES. ANY CONFLICTING UTILITIES SHALL BE RELOCATED PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE FACILITIES.
4. 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.
5. IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING CONDITIONS ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER, TODD R. WHIPPLE, P.E., @ 893-2017, THE SITE/PROJECT INSPECTING ENGINEER OR HIS REPRESENTATIVE, REG. PAUL T. NELSON, P.E., @ 509-299-5179 AND THE SPOKANE COUNTY ENGINEER'S OFFICE, CONSTRUCTION ENGINEER, @ 477-3600.
6. FOR CONSTRUCTION OF DRYWELLS, INSTALL FILTER FABRIC, "AMOCO" 4545 OR APPROVED EQUAL, BETWEEN THE DRYWELL BARREL AND THE WASHED DRAINROCK AND BETWEEN THE WASHED DRAINROCK AND NATIVE SOILS PER SPOKANE COUNTY STANDARD DETAIL B-1a.
7. PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES. CALL THE UNDERGROUND UTILITIES LOCATION SERVICE AT 456-8000 BEFORE YOU DIG.
8. THE CONTRACTOR SHALL MAKE AN EFFORT TO PROTECT ALL CATCH BASINS AND DRYWELLS FROM BEING CONTAMINATED WITH SILT BY INSTALLING FILTER FABRIC UNDER THE LID FOR AT LEAST 6 WEEKS, OR UNTIL THE ESTABLISHMENT OF GRASS AND/OR OTHER SITE CONSTRUCTION WORK HAS ENDED.
9. IN THE EVENT THAT SILT OR OTHER DELETERIOUS MATERIAL IS ALLOWED TO ENTER THE DRYWELLS OR CATCH BASINS THE CONTRACTOR WILL BE REQUIRED TO CLEAN OUT THE DRYWELL OR CATCH BASIN TO THE SATISFACTION OF THE CERTIFYING ENGINEER.
10. THE CONTRACTOR SHALL EMPLOY A LICENSED SURVEYOR TO VERIFY THAT THE CROSS-GUTTER FORMS ARE 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.
11. ALL DRYWELL CONNECTION PIPES SHALL BE PLACED BELOW THE DRYWELL CONE AND SHALL FLOW AS DIRECTED IN THE PLANS.
12. FOR ANY CURB GRADES LESS THAN 0.8 % (0.008 FT./FT.), A WASHINGTON STATE LICENSED PROFESSIONAL LAND SURVEYOR SHALL VERIFY THAT THE CURB FORMS ARE AT THE GRADES NOTED ON THE APPROVED PLANS, PRIOR TO PLACEMENT OF CURB MATERIAL. THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING AND COORDINATING WORK WITH THE PROFESSIONAL LAND SURVEYOR.

# RECORD DRAWING

SPOKANE COUNTY ENGINEERS
OFFICIAL PUBLIC DOCUMENT
ORIGINAL
"AS-BUILTS"
CERTIFIED RECORD DRAWINGS
PROJECT # 74-24
DATE 11/5/2018 SIGNATURE

NE¼ SEC.29, T.27N., R.43E., W.M.




### ROAD A TYPICAL SECTION STA. 5+00.00 TO STA. 5+90.63

NOT TO SCALE

3

### NEVADA LANE TYPICAL SECTION

NOT TO SCALE

4

### ⚠ TRACT E TYPICAL SECTION

NOT TO SCALE

5

### TYPICAL SECTION SILVER PINE RD, PASKE RD, & PERRY ST

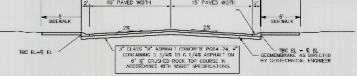
NOT TO SCALE

1

### ROAD A TYPICAL SECTION, STA. 5+90.00 TO 6+10.82

NOT TO SCALE

2




### GALLIUM LN TYPICAL SECTION (FUTURE PHASE)

NOT TO SCALE

6

PAUL T. NELSON
STATE OF WASHINGTON
11-5-18

"HAVE REVIEWED THE CONSTRUCTION AND TO MY KNOWLEDGE AND TO BE IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED CERTIFIED PLANS AND DYNAMIC PROFILE GRADING LENGTH AS NOTED."

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
"CONSTRUCTION PLANS"
PROJECT # 74-24
DATE ACCEPTED
ACCEPTANCE EXPIRES
PROJECT ENGINEER: PUBLIC
PROJECT LANE BELTS PRIVATE
PROJECT ENGINEER: PUBLIC
BRIDGE ENGINEER: "AS-BUILT" AS DRAWN FROM ORIGINAL PLANS, PER ENGINEER OF RECORD
ROAD AND DRAINAGE FACILITIES FOR WARRANTY PERIOD EXPIRES DATE (YY-MM)
BRIDGE ENGINEER: "AS-BUILT" AS DRAWN FROM ORIGINAL PLANS, PER ENGINEER OF RECORD
DATE 11/5/2018

NAVD - 88 DATUM

BENCH MARK USED ON SURVEY: SEE CHART DRAWING LINE INDEX
CONTROL OF ELEVATION: LOCATION OF 5 X 5 WITS NORTH OF THE JUNCTION OF DR. BLANK ROAD AND TBM - WIDEOUT BY HOSEN DRIVE
COORD. # 0F5B5B5 (NAD 83, ZONE 4) NAVD 88 ELEV. (GLVD 5.0) = 17.62 (FT)

| | | | |
|---|---|---|---|
| 1 | 03/05/18 | CTR | STORMWATER REVISIONS |
| NO. | DATE | BY | REVISIONS |

| SCALE: | |
|---|---|
| HORIZONTAL: | N/A |
| VERTICAL: | N/A |

| | |
|---|---|
| PROJ #: | 17-1762 |
| DATE: | 09/04/18 |
| DRAWN: | CTR |
| REVIEWED: | TRW |

KEY
PRELIMINARY
PLANNING
CONSTRUCTION
AS-BUILT
UNDERWAY
BID SET

WCE
WHIPPLE CONSULTANTS INC.
CIVIL ENGINEERS
PLANNERS
LAND SURVEYORS
421 W. PARK
SPOKANE, WASHINGTON 99201
(509) 326-4500
AN EQUAL OPPORTUNITY EMPLOYER

**WINDSOR ESTATES EAST**
**TYP. CROSS-SECTIONS & NOTES**
**HATCH ROAD**
**SPOKANE COUNTY, WASHINGTON**

SHEET
C0.2

JOB NUMBER
17-1762

# RECORD DRAWING

OFFICIAL PUBLIC DOCUMENT ORIGINAL
***AS-BUILTS***
CERTIFIED RECORD DRAWINGS
PROJECT #: 17-1762
DATE ACCEPTED: 11-5-18

NE1, SEC.29, T.27N., R.43E., W.M.

| Curve Table | | | |
|---|---|---|---|
| Curve # | Length | Radius | Delta |
| C2 | 34.78 | 47.50 | 41.95 |
| C3 | 173.67 | 275.00 | 36.18 |
| C4 | 127.00 | 275.00 | 26.50 |
| C5 | 233.83 | 500.00 | 26.78 |
| C6 | 72.72 | 46.50 | 89.61 |

*CURVE DATA FROM ℄

| Line Table ℄ | | |
|---|---|---|
| Line # | Length | Direction |
| L1 | 109.35 | S89° 33' 36"W |
| L2 | 110.82 | N0° 42' 24"W |
| L3 | 17.24 | N42° 36' 35"W |
| L4 | 78.40 | N30° 32' 41"E |
| L5 | 201.46 | S82° 49' 52"E |
| L6 | 483.63 | N89° 22' 25"E |
| L7 | 170.66 | N0° 13' 08"W |
| L8 | 45.41 | N0° 23' 19"W |
| L9 | 235.43 | N57° 02' 01"E |
| L10 | 94.16 | S33° 57' 06"E |

*LINE DATA FROM ℄

## CONSTRUCTION NOTES

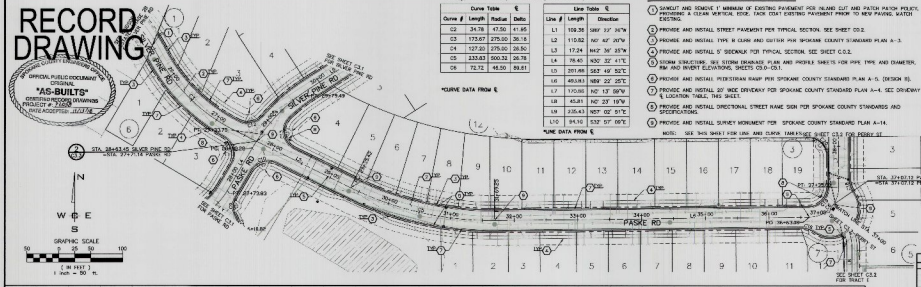
1. SAWCUT AND REMOVE 1' MINIMUM OF EXISTING PAVEMENT FOR INLAND CUT AND PATCH PAVIN POLICY, PROVIDING A FLUSH VERTICAL EDGE. TACK COAT EXISTING PAVEMENT PRIOR TO NEW PAVING. MATCH EXISTING.
2. PROVIDE AND INSTALL STREET PAVEMENT PER TYPICAL SECTION. SEE SHEET C0.2.
3. PROVIDE AND INSTALL TYPE III CURB AND GUTTER PER SPOKANE COUNTY STANDARD PLAN A-3.
4. PROVIDE AND INSTALL 5' SIDEWALK PER TYPICAL SECTION. SEE SHEET C0.2.
5. STORM STRUCTURE. SEE STORM DRAINAGE PLAN AND PROFILE SHEETS FOR PIPE TYPE AND DIAMETER, RIM AND INVERT ELEVATIONS. SHEETS C3.0-C3.1.
6. PROVIDE AND INSTALL PEDESTRIAN RAMP PER SPOKANE COUNTY STANDARD PLAN A-5. (DESIGN B).
7. PROVIDE AND INSTALL 20' WIDE DRIVEWAY PER SPOKANE COUNTY STANDARD PLAN A-4. SEE DRIVEWAY ℄ LOCATION TABLE, THIS SHEET.
8. PROVIDE AND INSTALL DIRECTIONAL STREET NAME SIGN PER SPOKANE COUNTY STANDARDS AND SPECIFICATIONS.
9. PROVIDE AND INSTALL SURVEY MONUMENT PER SPOKANE COUNTY STANDARD PLAN A-14.

NOTE: SEE THIS SHEET FOR LINE AND CURVE TABLES. SEE SHEET C0.0 FOR PROJECT VICINITY MAP.

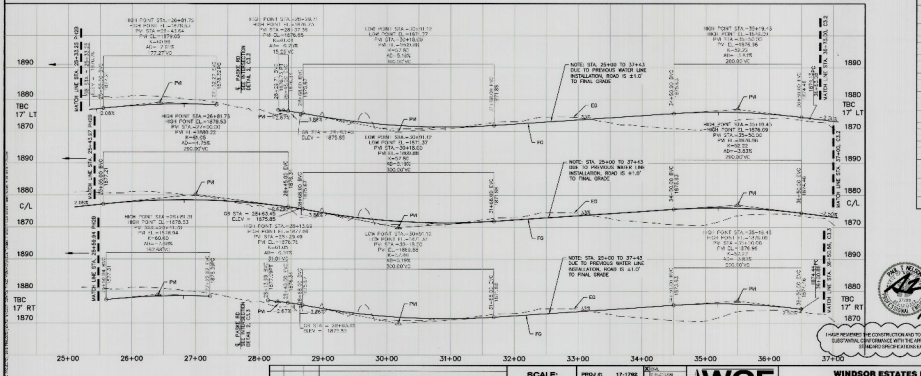
UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
TWO WORKING DAYS BEFORE YOU DIG

| Curve Table | | | TBC |
|---|---|---|---|
| Curve # | Length | Radius | Delta |
| C8 | 54.96 | 29.50 | 106.75 |
| C9 | 30.38 | 29.34 | 59.14 |
| C10 | 44.06 | 29.50 | 85.62 |
| C11 | 47.46 | 29.50 | 92.08 |
| C12 | 39.21 | 29.50 | 76.16 |
| C13 | 56.76 | 29.50 | 110.12 |
| C14 | 46.34 | 29.50 | 90.00 |
| C15 | 46.34 | 29.50 | 90.00 |
| C16 | 18.99 | 29.50 | 36.86 |
| C17 | 129.76 | 45.50 | 163.33 |
| C18 | 18.99 | 29.50 | 36.86 |
| C19 | 46.14 | 29.50 | 89.61 |
| C20 | 46.34 | 29.50 | 90.00 |
| C21 | 46.36 | 29.45 | 90.20 |

*CURVE DATA FROM TBC




| DRIVEWAY CL LOCATION TABLE | | | |
|---|---|---|---|
| BLOCK | LOT | ALIGNMENT | STATION |
| 1 | 1 | SILVER PINE RD | 20+46.61 |
| | 2 | SILVER PINE RD | 21+46.61 |
| | 3 | SILVER PINE RD | 26+22.47 |
| 3 | 1 | SILVER PINE RD | 28+07.63 |
| | 2 | SILVER PINE RD | 29+07.63 |
| | 3 | SILVER PINE RD | 31+10.00 |
| | 4 | SILVER PINE RD | 32+23.07 |
| | 5 | SILVER PINE RD | 33+23.49 |
| 5 | 1 | SILVER PINE RD | 11+10.00 |
| | 2 | SILVER PINE RD | 12+46.33 |
| | 3 | SILVER PINE RD | 13+46.33 |
| | 12 | SILVER PINE RD | 21+00.00 |
| | 13 | SILVER PINE RD | 22+30.01 |
| | 14 | SILVER PINE RD | 34+24.58 |
| | 15 | SILVER PINE RD | 35+35.40 |
| | 16 | SILVER PINE RD | 36+33.83 |
| | 17 | SILVER PINE RD | 37+38.38 |
| | 18 | SILVER PINE RD | 38+38.38 |
| | 19 | SILVER PINE RD | 39+37.83 |
| 6 | 1 | SILVER PINE RD | 23+46.33 |
| | 2 | SILVER PINE RD | 24+46.33 |
| | 3 | SILVER PINE RD | 26+77.35 |
| 7 | 1 | PASKE RD | 31+18.10 |
| | 2 | PASKE RD | 31+52.92 |
| | 3 | PASKE RD | 32+23.10 |
| | 4 | PASKE RD | 33+23.10 |
| | 5 | PASKE RD | 34+23.10 |
| | 6 | PASKE RD | 35+46.49 |
| | 7 | PASKE RD | 36+35.12 |
| | 8 | PASKE RD | 37+44.74 |
| | 9 | PASKE RD | 38+38.00 |
| | 10 | PASKE RD | 39+44.14 |
| | 11 | PASKE RD | 40+48.78 |
| | 12 | PASKE RD | 41+45.46 |
| N/A | N/A | PERRY ST | 24+37.35 |
| | | | 25+37.35 |




NAVD - 88 DATUM

NOTES: ALL DIMENSIONS ON CURVES ARE MEASURED ALONG CHORD.
CONCRETE CURBING: CONCRETE CURB TO BE REINFORCED.
CONC. CURB: CONCRETE CURB TO BE REINFORCED. CONC. CURB TYPE: 6" X 6" REINFORCED CONC. CURB PER SPOKANE COUNTY STANDARD PLAN C-1.

| REVISIONS | | | |
|---|---|---|---|
| NO. | DATE | BY | STORMWATER REVISIONS |

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

PROJ #: 17-1762
DATE: 08/30/18
DRAWN: CTR
REVIEWED: TRW

| REVISIONS | |
|---|---|
| CTR | 11-05-18 |
| JMC | 11-05-18 |
| TRW | 11-05-18 |

WCE
SPOKANE COUNTY ENGINEERS
P.O. BOX 48
SPOKANE, WA 99210-0048
(509) 477-3600

**WINDSOR ESTATES EAST**
**SILVER PINE RD TO PASKE RD & HATCH ROAD**
**SPOKANE COUNTY, WASHINGTON**

SHEET
C3.0
JOB MASTER
17-1762

I HAVE REVIEWED THE CONSTRUCTION AND TO MY KNOWLEDGE FACT TO BE IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED CERTIFIED PLANS AND REVISIONS (REVISIONS SHOWN ABOVE)

11-5-18

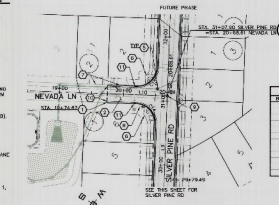
NE¼, SEC.29, T.27N., R.43E., W.M.

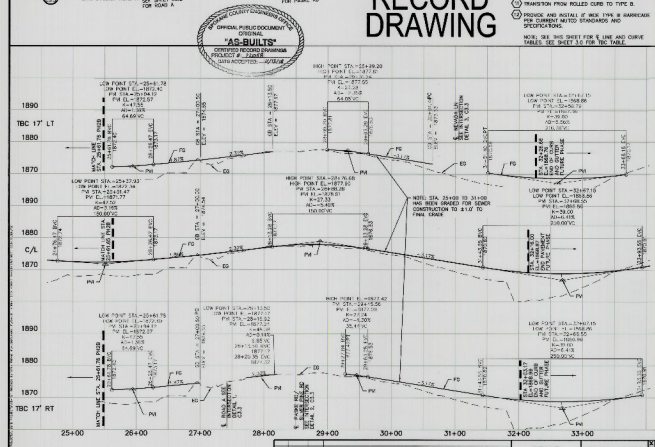
## CONSTRUCTION NOTES

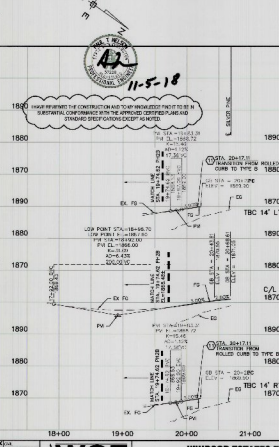
1. CONSTRUCT AND REMOVE + MINIMUM OF EXISTING PAVEMENT PER INLAND CUT AND PATCH PATCH POLICY PROVIDING A CLEAN VERTICAL EDGE. THICK COAT EXISTING PAVEMENT PRIOR TO NEW PAVING. MATCH EXISTING.
2. PROVIDE AND INSTALL STREET PAVEMENT PER TYPICAL SECTION. SEE SHEET C3.2.
3. PROVIDE AND INSTALL TYPE B CURB AND GUTTER PER SPOKANE COUNTY STANDARD PLAN A-3.
4. PROVIDE AND INSTALL 5' SIDEWALK PER TYPICAL SECTION. SEE SHEET C3.2.
5. STORM STRUCTURE. SEE STORM DRAINAGE PLAN AND PROFILE SHEETS FOR PIPE TYPE AND DIAMETER, RIM AND INVERT ELEVATIONS. SHEETS C3.3~C3.5
6. PROVIDE AND INSTALL PEDESTRIAN RAMP PER SPOKANE COUNTY STANDARD PLAN A-5. (SECTION B)
7. PROVIDE AND INSTALL 20' NEW DRIVEWAY PER SPOKANE COUNTY STANDARD PLAN A-4. SEE DRIVEWAY & LOCATION TABLE, THIS SHEET.
8. PROVIDE AND INSTALL DIRECTIONAL STREET NAME SIGN FOR PASKE RD & SILVER PINE RD PER SPOKANE COUNTY STANDARDS AND SPECIFICATIONS.
9. PROVIDE AND INSTALL SURVEY MONUMENT PER SPOKANE COUNTY STANDARD PLAN A-14.
10. PROVIDE AND INSTALL TYPE "R" CURB PER DETAIL 1, THIS SHEET (ON NEVADA LN ONLY).
11. TRANSITION FROM ROLLED CURB TO TYPE B.
12. PROVIDE AND INSTALL 8' WIDE TYPE III BARRICADE PER CURRENT MUTCD STANDARDS AND SPECIFICATIONS.

NOTE: SEE THIS SHEET FOR E LINE AND CURVE TABLES. SEE SHEET 3.0 FOR TBC TABLE.

# RECORD DRAWING




COUNTY ENGINEER
OFFICIAL PUBLIC DOCUMENT
ORIGINAL
"AS-BUILTS"
CERTIFIED RECORD DRAWINGS
PROJECT # 2_____
DATE RECEIVED: 11/15/18

11-5-18

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL BEFORE YOU DIG
RETAINS THE 100

GRAPHIC SCALE
50 0 25 50 100
1 IN FEET
1 inch = 50 ft.

| DRIVEWAY CL LOCATION TABLE | | | |
|---|---|---|---|
| BLOCK | LOT | ALIGNMENT | STATION |
| 1 | 1 | SILVER PINE RD | 29+68.51 |
| | 2 | SILVER PINE RD | 29+93.42 |
| | 3 | SILVER PINE RD | 30+18.32 |
| 2 | 1 | NEVADA LN | 19+55.81 |
| | 2 | NEVADA LN | 19+81.85 |
| 3 | 1 | SILVER PINE RD | 2+19.00 |
| | 2 | SILVER PINE RD | 2+43.06 |
| | 3 | SILVER PINE RD | 2+74.04 |
| 4 | 1 | PASKE RD | 19+20.17 |
| 5 | 1 | PASKE RD | 21+54.53 |
| | 2 | PASKE RD | 22+45.33 |
| | 3 | PASKE RD | 23+77.05 |

TYPE "R" CURB 1

NOT TO SCALE

| Curve Table | | | | |
|---|---|---|---|---|
| Curve # | Length | Radius | Delta |
| C2 | 34.78 | 47.50 | 41.95 |
| C3 | 173.67 | 275.00 | 36.18 |
| C4 | 127.30 | 275.00 | 26.53 |
| C5 | 233.83 | 500.00 | 26.78 |
| C6 | 72.72 | 48.50 | 89.91 |

*CURVE DATA FROM ℄

| Line Table | | |
|---|---|---|
| Line # | Length | Direction |
| L1 | 109.36 | S89° 39' 29"W |
| L2 | 110.82 | N0° 42' 20"W |
| L3 | 17.24 | N42° 39' 25"W |
| L4 | 78.40 | N38° 39' 41"E |
| L5 | 201.66 | S63° 49' 52"E |
| L6 | 463.53 | N89° 22' 25"E |
| L7 | 170.94 | N0° 13' 39"W |
| L8 | 43.81 | N0° 13' 39"W |
| L9 | 230.41 | N57° 02' 51"E |
| L10 | 94.10 | S32° 57' 09"E |

*LINE DATA FROM ℄

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT
ORIGINAL
CONSTRUCTION PLANS
PROJECT #
DATE ACCEPTED:
ACCEPTANCE EXPIRES:
PROJECTS LANE MILES: PUBLIC
PROJECTS LANE MILES: PRIVATE
RECORD DRAWINGS: "AS BUILT" WITH REVISIONS FROM RECORD DRAWINGS. THE "AS BUILT" WITH REVISIONS FROM RECORD DRAWINGS INCLUDES THE FOLLOWING CHANGES: NONE. CHANGES INCLUDE THE FOLLOWING PERMIT REVISIONS: NONE
PERMIT REVISIONS: NONE
ENGINEERING MANAGER

◆ NAVD - 88 DATUM

VERTICAL DATUM BASED ON COUNTY TEMPORARY BENCHMARK
1) GRID COORDINATES, LOCATION FOR CALIFORNIA NORTH (FT) 1983
2) ELEVATION OF TBM 165 ON FIRST AVE TRM - ELEVATION 2,000.00 FT
3) CONC. #3FB2325 ISO 6 SQ 20 M WADDEN ALUMINUM CAP (1.7 FEET N)

| NO. | DATE | BY | REVISIONS |
|---|---|---|---|
| 1 | 06/06/18 | CTR | STORMWATER REVISIONS |

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

DATE: 06/04/18
DRAWN: CTR
REVIEWED: TRW

PROJ #: 17-1762

| REV. | DATE | BY |
|---|---|---|
| 1 | 06/06/18 | CTR |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |

IWCE
INTERMOUNTAIN WEST CONSULTING ENGINEERS
10 S. HOWARD, SUITE 4000
SPOKANE, WASHINGTON 99201
PH. (509) 838-6211 FAX (509) 838-6212

WINDSOR ESTATES EAST
PASKE/SILVER PINE RD & NEVADA LN P&P
HATCH ROAD
SPOKANE COUNTY, WASHINGTON

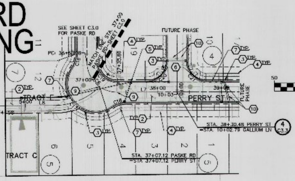
SHEET
C3.1

JOB NUMBER
17-1762

# RECORD DRAWING

NE¼, SEC.29, T.27N., R.43E., W.M.

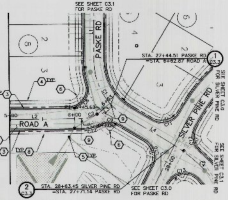
UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL TWO BUSINESS DAYS BEFORE YOU DIG




GRAPHIC SCALE
( IN FEET )
1 inch = 50 ft.

TRACT E & PERRY ST PLAN

SCALE: 1"=50'




ROAD A PLAN

SCALE: 1"=50'

## CONSTRUCTION NOTES

1. RESERVED.
2. PROVIDE AND INSTALL STREET PAVEMENT PER TYPICAL SECTION. SEE SHEET C0.2.
3. PROVIDE AND INSTALL TYPE B CURB AND GUTTER PER SPOKANE COUNTY STANDARD PLAN A-3.
4. PROVIDE AND INSTALL 5' SIDEWALK PER TYPICAL SECTION. SEE SHEET C0.2.
5. STORM STRUCTURE. SEE STORM DRAINAGE PLAN AND PROFILE SHEETS FOR PIPE TYPE AND DIAMETER, RIM AND INVERT ELEVATIONS, SHEETS C5.0-C5.1.
6. PROVIDE AND INSTALL PEDESTRIAN RAMP PER SPOKANE COUNTY STANDARD PLAN A-5. (DESIGN B).
7. PROVIDE AND INSTALL 20' WIDE DRIVEWAY PER SPOKANE COUNTY STANDARD PLAN A-4. SEE DRIVEWAY ℄ LOCATION TABLE, THIS SHEET.
8. PROVIDE AND INSTALL 6' SIDEWALK PER TYPICAL SECTION. SEE SHEET C.0.2.
9. PROVIDE AND INSTALL SURVEY MONUMENT PER SPOKANE COUNTY STANDARD PLAN A-14.
10. PROVIDE AND INSTALL 8' WIDE TYPE III BARRICADE PER CURRENT MUTCD STANDARDS AND SPECIFICATIONS.

NOTE: SEE THIS SHEET FOR LINE AND CURVE TABLES.

| DRIVEWAY CL LOCATION TABLE | | | |
|---|---|---|---|
| BLOCK | LOT | ALIGNMENT | STATION |
| 4 | 10 | PERRY ST | 38+86.18 |
| 5 | 1 | PERRY ST | 38+76.71 |
| | 2 | PERRY ST | 38+44.74 |
| | 3 | PERRY ST | 37+97.77 |
| | 4 | PERRY ST | 37+32.85 |
| | 5 | PERRY ST | 37+14.84 |
| N/A | N/A | PERRY ST | 36+97.55 (45.42RT) |
| | 6 | TRACT E | 5+53.22 |

| Curve Table | | | |
|---|---|---|---|
| Curve # | Length | Radius | Delta |
| C2 | 34.78 | 47.50 | 41.95 |
| C3 | 173.67 | 275.00 | 36.18 |
| C4 | 127.20 | 275.00 | 26.50 |
| C5 | 233.83 | 500.32 | 26.78 |
| C6 | 72.72 | 46.50 | 89.61 |

*CURVE DATA FROM ℄

| Line Table | | |
|---|---|---|
| Line # | Length | Direction |
| L1 | 109.36 | S89° 22' 26"W |
| L2 | 110.82 | N0° 42' 20"W |
| L3 | 17.24 | N42° 39' 25"W |
| L4 | 78.45 | N30° 32' 41"E |
| L5 | 201.66 | S63° 49' 52"E |
| L6 | 493.83 | N89° 22' 25"E |
| L7 | 170.86 | N0° 13' 59"W |
| L8 | 45.81 | N0° 23' 19"W |
| L9 | 235.43 | N57° 02' 51"E |
| L10 | 94.10 | S32° 57' 09"E |

*LINE DATA FROM ℄

| Curve Table TBC | | | |
|---|---|---|---|
| Curve # | Length | Radius | Delta |
| C8 | 54.96 | 29.50 | 106.75 |
| C9 | 30.26 | 29.34 | 59.14 |
| C10 | 44.09 | 29.50 | 85.62 |
| C11 | 47.40 | 29.50 | 92.06 |
| C12 | 39.21 | 29.50 | 76.16 |
| C13 | 56.70 | 29.50 | 110.12 |
| C14 | 46.34 | 29.50 | 90.00 |
| C15 | 46.34 | 29.50 | 90.00 |
| C16 | 18.98 | 29.50 | 36.86 |
| C17 | 129.70 | 45.50 | 163.33 |
| C18 | 18.98 | 29.50 | 36.86 |
| C19 | 46.14 | 29.50 | 89.61 |
| C20 | 46.34 | 29.50 | 90.00 |
| C21 | 46.36 | 29.45 | 90.20 |

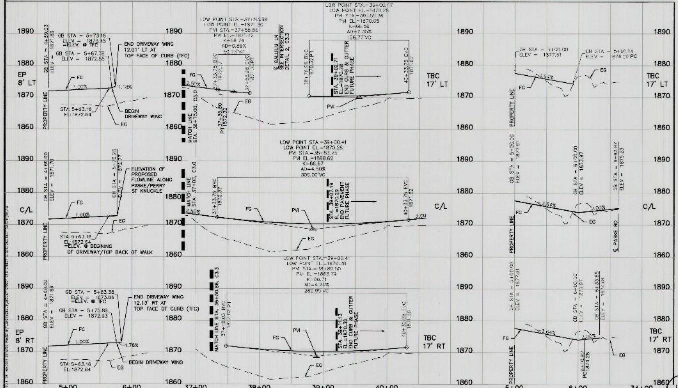
*CURVE DATA FROM TBC

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT ORIGINAL
"AS-BUILTS"
CERTIFIED RECORD DRAWINGS
PROJECT #: P1058
DATE ACCEPTED: 11/13/18

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
CONSTRUCTION PLANS
PROJECT #:
DATE ACCEPTED:
ACCEPTANCE EXPIRES:
PROJECTS LANE MILES: PUBLIC:
PROJECT LANE MILES PRIVATE:
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
NOTIFY PERMIT ENGINEER 2 BUSINESS DAYS PRIOR TO CONSTRUCTION

PAUL T. NELSON, PROFESSIONAL ENGINEER, 37228

11-5-18




I HAVE REVIEWED THE CONSTRUCTION AND TO MY KNOWLEDGE FIND IT TO BE IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED CERTIFIED PLANS AND STANDARD SPECIFICATIONS EXCEPT AS NOTED.

TODD R. WHIPPLE, PROFESSIONAL ENGINEER

NAVD - 88 DATUM

VERTICAL DATUM BASED ON FOUND TEMPORARY BENCH MARK LOCATED AT (GENERAL LOCATION) 3.4 MILES NORTH OF THE JUNCTION OF SR 395 AND SR 02 TBM = WSDOT BRASS DISK IN CONC. #GP32395 202 & 323.24 M NAVD88 (CALCULATED 1718.07 FT)

| NO. | DATE | BY | REVISIONS |
|---|---|---|---|
| - | 09/06/18 | CTR | STORMWATER REVISIONS |

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

PROJ #: 17-1762
DATE: 09/04/18
DRAWN: CTR
REVIEWED: TRW

WCE — WHIPPLE CONSULTING ENGINEERS, SPOKANE VALLEY, WA

**WINDSOR ESTATES EAST**
**TRACT E/ST & NEVADA RD P&P**
**HATCH ROAD**
**SPOKANE COUNTY, WASHINGTON**

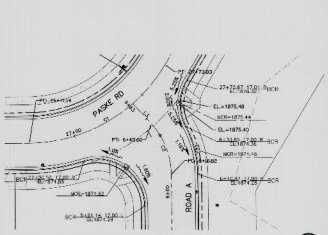
SHEET C3.2

JOB NUMBER 17-1762

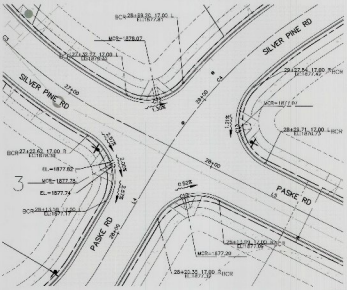
NE¼ SEC.29, T.27N., R.43E., W.M.

# RECORD DRAWING

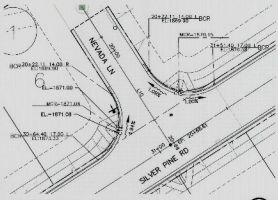
UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL TWO BUSINESS DAYS
BEFORE YOU DIG



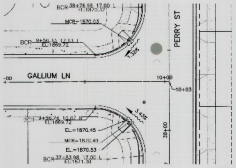

INTERSECTION DETAIL 1
PASKE RD STA. 27+44.51 = ROAD A STA. 0+66.67
SCALE: 1"=20'



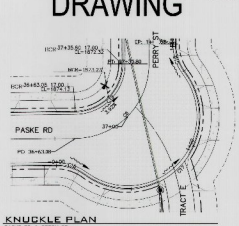

INTERSECTION DETAIL 2
PASKE RD & SILVER PINE RD
SCALE: 1"=20'



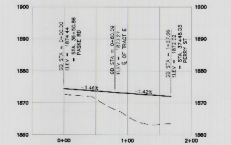

INTERSECTION DETAIL 3
NEVADA LN & SILVER PINE RD
SCALE: 1"=20'




INTERSECTION DETAIL 4
PERRY ST & GALLIUM LN
SCALE: 1"=20'




KNUCKLE PLAN
PASKE RD & PERRY ST
SCALE: 1"=20'




KNUCKLE PROFILE A
PASKE RD & PERRY ST
SCALE: 1"=20'

"AS-BUILTS"
OFFICIAL PUBLIC DOCUMENT
OF THE
U.S. BUREAU OF LAND MANAGEMENT
OUTDOOR RECORD DRAWINGS
PROJECT # 17-1762
DATE ACCEPTED 7/13/18

| Curve Table TBC | | | |
|---|---|---|---|
| Curve # | Length | Radius | Delta |
| C8 | 54.95 | 25.00 | 126.01 |
| C9 | 30.28 | 39.34 | 59.14 |
| C10 | 44.09 | 25.50 | 95.60 |
| C11 | 47.40 | 26.50 | 102.06 |
| C12 | 39.21 | 29.50 | 76.16 |
| C13 | 58.70 | 29.50 | 113.12 |
| C14 | 46.34 | 29.50 | 90.00 |
| C15 | 46.34 | 29.50 | 90.00 |
| C16 | 18.98 | 29.50 | 36.86 |
| C17 | 129.70 | 45.50 | 163.33 |
| C18 | 18.98 | 29.50 | 36.86 |
| C19 | 46.14 | 29.50 | 89.61 |
| C20 | 46.34 | 29.50 | 90.00 |
| C21 | 46.36 | 29.45 | 90.20 |

*CURVE DATA FROM TSP BACK OF CURB

| Curve Table ℄ | | | |
|---|---|---|---|
| Curve # | Length | Radius | Delta |
| C2 | 34.78 | 47.00 | 41.90 |
| C3 | 173.67 | 275.00 | 36.18 |
| C4 | 137.20 | 275.00 | 28.60 |
| C5 | 233.83 | 500.32 | 26.78 |
| C6 | 72.72 | 46.50 | 89.61 |

*CURVE DATA FROM ℄

| Line Table ℄ | | |
|---|---|---|
| Line # | Length | Direction |
| L1 | 106.16 | S89° 22' 24"E |
| L2 | 110.80 | N0° 42' 20"W |
| L3 | 17.24 | N42° 39' 25"W |
| L4 | 78.45 | N30° 32' 41"E |
| L5 | 201.66 | S87° 44' 52"E |
| L6 | 493.83 | N89° 27' 35"E |
| L7 | 170.06 | N0° 17' 58"W |
| L8 | 45.61 | N0° 27' 15"W |
| L9 | 235.43 | N0° 00' 51"E |
| L10 | 94.10 | S33° 57' 09"E |

*LINE DATA FROM ℄

SPOKANE COUNTY, PUBLIC WORKS
OFFICE OF ENGINEERING, CAPITAL
CONSTRUCTION PLANS
PROJECT #
DATE ACCEPTED
ACCEPTANCE # SPWRS
PROJECTS: LANE MILES: PUBLIC
PROJECT LANE MILES: PRIVATE
THIS PROJECT WAS CONSTRUCTED IN ACCORDANCE WITH THE SEWER DRAWINGS, "AS-BUILTS" ARE REQUIRED. PRIOR TO ACCEPTANCE BY SPOKANE COUNTY, THE DEVELOPER OR OWNER'S ENGINEER FOR CERTIFICATE OF PERMIT REQUIRED ONLY ON: AND
ACCEPTANCE BY SPOKANE COUNTY DATE
PRIOR TO CONSTRUCTION

I HAVE REVIEWED THE CONTINUED COMPLIANCE OF WATER REQUIRED 1 TO 3 BE IN MAINTENANCE, COMPLIANCE WITH THE APPROVED CERTIFIED PLANS AND STANDARD SPECIFICATIONS EXCEPT AS NOTED

NAVD - 88 DATUM
VERTICAL DATUM BASED ON TOWN OF TYMPANY BENCH MARK. GRID SOLAR - SENSIBLE LOCATION S-4 WEST CORNER OF THE LAUNDROMAT ON SAUNDERS" NG TYM - UNDOT ID NGS DESIGN CONC. #DP8285 DES & SOLAR NAD83 (CL) (US) 112-142 (FT)

| | | | |
|---|---|---|---|
| 06/06/18 | CTR | STORMWATER REVISIONS | |
| NO. | DATE | BY | REVISIONS |

SCALE:
HORIZONTAL: 1"=20'
VERTICAL: 1"=10'

PROJ #: 17-1762
DATE: 09/04/18
DRAWN: CTR
REVIEWED: TRW

SCALE
HORIZONTAL
VERTICAL
DRAWN
REVIEWED
DATE

IWCE
SPOKANE VALLEY, WASHINGTON 99206
PHONE (509) 927-9660
FAX (509) 926-9577 TOLL FREE (800) 457-6560

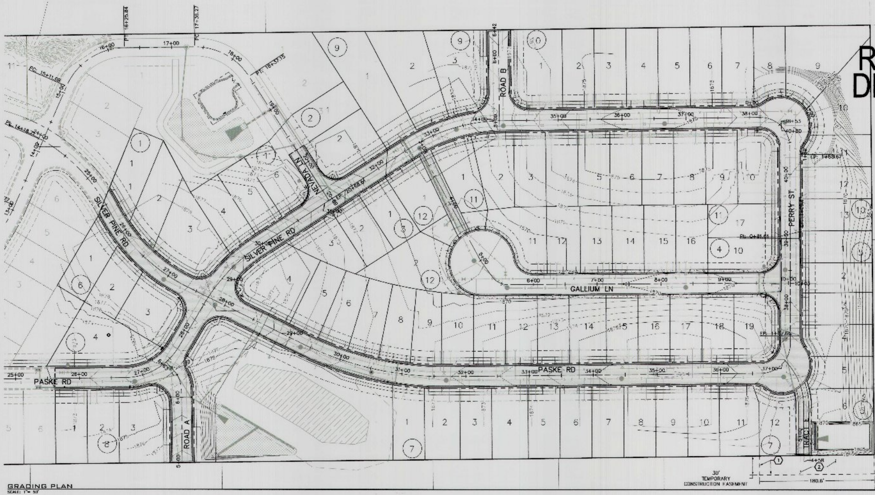
WINDSOR ESTATES EAST
STREET DETAILS
HATCH ROAD
SPOKANE COUNTY, WASHINGTON

SHEET
C3.3
JOB NUMBER
17-1762

NE1/4, SEC.29, T.27N., R.43E., W.M.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL TWO BUSINESS DAYS BEFORE YOU DIG

# RECORD DRAWING




GRADING PLAN
SCALE: 1"= 50'

QUANTITIES
CUT: 33,107 CY
FILL: 43,661 CY
NET: 10,554 CY

N / W / E / S

GRAPHIC SCALE
50 0 25 50 100
( IN FEET )
1 inch = 50 ft.

## CONSTRUCTION NOTES

1. 30' TEMPORARY CONSTRUCTION EASEMENT WILL BE PERMITTED ON WHITWORTH WATER DISTRICT #2 PROPERTY TO ALLOW CONTRACTOR TO GRADE PROPOSED STORM POND AND PRIVATE ROAD BACK TO EXISTING GROUND.
2. CONTRACTOR SHALL RE-SEED ANY DISTURBED AREAS AND REMEDY THE DISTURBED AREA BACK TO THE EXISTING QUALITY OR BETTER. CONTRACTOR SHALL COORDINATE WITH WHITWORTH WATER DISTRICT #2 PRIOR TO CONSTRUCTION AND AFTER REMEDYING DISTURBED AREA TO INSURE THE QUALITY OF WORK MEETS WHITWORTH WATER DISTRICT #2 STANDARDS.

NOTE: CONTRACTOR IS NOT TO DISTURB WHITWORTH WATER DISTRICT #2 EXISTING WATER TANK OVERFLOW POND DURING CONSTRUCTION AND CONTRACTOR SHALL NOT COMMENCE WORK UNTIL CONSTRUCTION STAKING OF TEMPORARY EASEMENT HAS BEEN CLEARLY MARK.

SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT
ORIGINAL
"AS-BUILTS"
CERTIFIED RECORD DRAWINGS
PROJECT #: P2058
DATE ACCEPTED: 11/13/18

PAUL T. NELSON
STATE OF WASHINGTON
PROFESSIONAL ENGINEER
11-5-18

I HAVE REVIEWED THE CONSTRUCTION AND TO MY KNOWLEDGE FIND IT TO BE IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED CERTIFIED PLANS AND STANDARD SPECIFICATIONS EXCEPT AS NOTED.

SPOKANE COUNTY PUBLIC WORKS
OFFICIAL PUBLIC DOCUMENT ORIGINAL
**CONSTRUCTION PLANS**
PROJECT #: ______
DATE ACCEPTED: ______
ACCEPTANCE EXPIRES: ______
PROJECTS LANE MILES: PUBLIC: ______
PROJECT LANE MILES PRIVATE: ______
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 3 BUSINESS DAYS PRIOR TO CONSTRUCTION

TODD R. WHIPPLE
STATE OF WASHINGTON
PROFESSIONAL ENGINEER

NAVD - 88 DATUM
VERTICAL DATUM BASED ON FOUND TEMPORARY BENCH MARK LOCATED AT (GENERAL LOCATION) 5.4 MILES NORTH OF THE JUNCTION OF SR 395 AND SR 902 TBM - WSDOT BRASS DISK IN CONC. #GP32695-202 & 525.34 M NAVD88 (CALCULATED 1726.67 FT)

| NO. | DATE | BY | REVISIONS |
|---|---|---|---|
| - | 06/06/18 | CTR | STORMWATER REVISIONS |

| SCALE: | |
|---|---|
| HORIZONTAL: | 1"=50' |
| VERTICAL: | N/A |

| | |
|---|---|
| PROJ #: | 17-1762 |
| DATE: | 09/04/18 |
| DRAWN: | STT |
| REVIEWED: | TRW |

X CIVIL / STRUCTURAL / SURVEYING / TRAFFIC / PLANNING / LANDSCAPE / OTHER

WCE
WHIPPLE CONSULTING ENGINEERS
21 S PINES RD
SPOKANE VALLEY, WA 99206
PH 509 893 2617 FAX 509 926 0227

**WINDSOR ESTATES EAST**
**GRADING PLAN**
**HATCH ROAD**
**SPOKANE COUNTY, WASHINGTON**

SHEET
C4.0

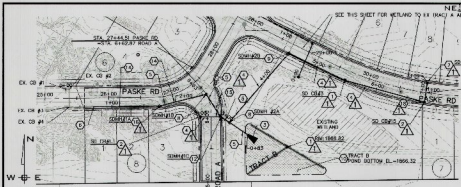
JOB NUMBER
17-1762

# RECORD DRAWING

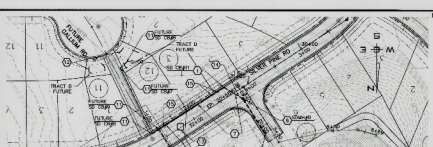
UNDERGROUND SERVICE ALERT
USE-CALL WASHINGTON
811
48 HRS. TWO WORKING DAYS
BEFORE YOU DIG

NOTE: TRIANGULAR REVISION WAS NOT PLACED NEXT TO THE PIPE (BY TAC) IN PLAN VIEW WHERE CUT LINE WAS CHANGED. THIS WAS TO PREVENT CONFUSION WITH PROSPECTIVE CONSTRUCTION NOTE FOR PIPE TYPE CHANGE.

CONTRACTOR TO VERIFY ACTUAL INFRA STRUCTURE INVERT ELEVATION PRIOR TO CONSTRUCTION



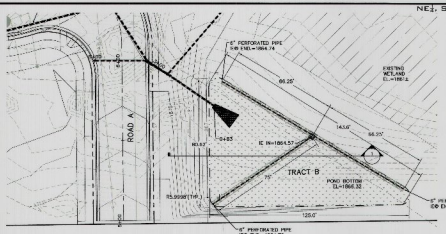
NE¼, SEC.29, T.27N., R.43E., W.M.


TRACT D FUTURE
TRACT D
EX. 12" CMP
EX. 18" CMP
EX. 12" CMP
EXISTING OUTLET STRUCTURE
EX. STORM POND A
HATCH ROAD
PERRY ST
GALLIUM LN
SHIPPERS RD
EX. 18" CMP
EX. 12" CMP
EX. 18" CMP
EX. 12" CMP
EX. 18" CMP
EX. 12" CMP

NE¼ SEC.29, T.27N., R.43E., W.M.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL THE NUMBER WHEN DIGGING BEGINS

# RECORD DRAWING




TRACT B DETAIL
SCALE 1" = 10'

TRACT 'B' SECTION
NOT TO SCALE

**TREATMENT SOIL NOTE:**
12" OF TREATMENT SOIL WITH AN INFILTRATION RATE BETWEEN 0.25 AND 0.5 INCHES/HOUR AND AVERAGE CATION EXCHANGE CAPACITY OF AT LEAST 15 MILLIEQUIVALENTS/100 GRAMS OR AT LEAST 2% OF ORGANIC MATTER BY WEIGHT. SEE TABLE 6-1, PG. 6-18 OF THE SPOKANE REGIONAL STORMWATER MANUAL

WARNING - THE USE OF SILTY LOAM IS PROHIBITED AS POND BOTTOM MATERIAL.

1

OFFICIAL PUBLIC DOCUMENT
SPOKANE COUNTY ENGINEERS
ORIGINAL
"AS-BUILTS"
CERTIFIED RECORD DRAWINGS
PROJECT NAME: WESTERN ESTATES
DATE ADDITIONS: 11-5-18

POND 'D' DETAIL
SCALE 1" = 20'

**TREATMENT SOIL NOTE:**
12" OF TREATMENT SOIL WITH AN INFILTRATE RATE BETWEEN 0.25 AND 0.5 INCHES/HOUR AND AVERAGE CATION EXCHANGE CAPACITY OF AT LEAST 15 MILLIEQUIVALENTS/100 GRAMS OR AT LEAST 2% OF ORGANIC MATTER BY WEIGHT. SEE TABLE 6-1, PG. 6-18 OF THE SPOKANE REGIONAL STORMWATER MANUAL

WARNING - THE USE OF SILTY LOAM IS PROHIBITED AS POND BOTTOM MATERIAL.

4

REDI-ROCK PRODUCT RETAINING WALL
SCALE: NOT TO SCALE

2

11-5-18

11/5/18: REVISED THE CONSTRUCTION AND TOMP ENGINEERED FIELD FIT BE IN ELIGIBILITY WITH THE SPOKANE COUNTY ENGINEERS STANDARD TUNE AND STANDARD SPECIFICATION GROUP HUNTER

NOTE:
RIPRAP PAD MUST BE INSTALLED WITH FILTER FABRIC (WOVEN OR EQUIVALENT) BETWEEN THE NATIVE SOIL AND THE WASHED DRAIN ROCK

RIPRAP PAD DIMENSIONS

| PAD NUMBER | Wa | La | a | b | DEPTH | SIZE | FABRIC |
|---|---|---|---|---|---|---|---|
| 1 | 6' | 10' | 3' | 3' | 1' | 6" MIN. | YES |

TYPICAL RIPRAP PAD
NOT TO SCALE

3

NAVD - 88 DATUM
VERTICAL DATUM BASED ON COUNTY BENCH MARK (QCBM) BENCH MARK LOCATION: LOCATED 5.4 MILES NORTH OF THE JUNCTION OF SR 395 AND COLVILLE AVE. PRODUCT BASED ON QCBM ADDRESS: 9 & 6TH SW & MAPLE ST (ELEVATION = 1962.87)

| NO. | DATE | BY | REVISIONS |
|---|---|---|---|
| 1 | 08/05/18 | CTR | STORMWATER REVISIONS |

SCALE:
HORIZONTAL: 1" = 20'
VERTICAL: N/A

PROJ #: 17-1762
DATE: 08/04/18
DRAWN: CTR
REVIEWED: TMW

KEY
CIVIL/STRUCTURAL
SUPERVISOR
PROJECT MANAGER
DESIGNER
CADD TECH
ENGINEER
ARCHITECT

WCE
W. CRAIG ELLIOTT INCORPORATED
CIVIL ENGINEERS
SPOKANE VALLEY, WASHINGTON
PH (509) 926-7117 FAX (509) 927-1127

**WINDSOR ESTATES EAST**
**STORM POND DETAILS**
**HATCH ROAD**
**SPOKANE COUNTY, WASHINGTON**

SHEET
C5.2

JOB NUMBER
17-1762