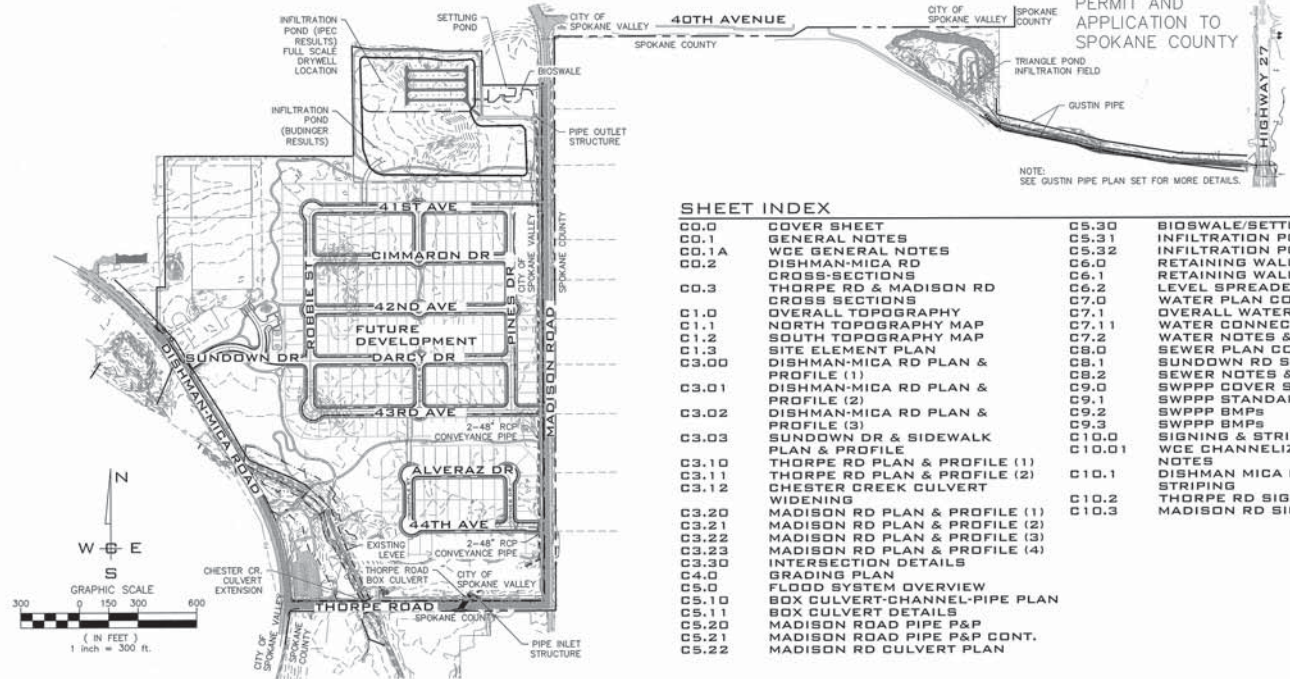
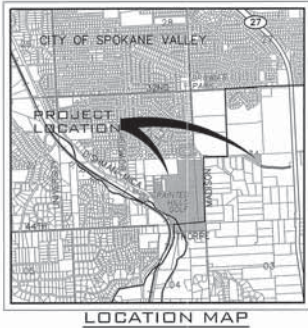


IMPROVEMENT PLANS PAINTED HILLS FLOOD CONTROL PLANS

LOCATED IN A PORTION OF
SE 1/4, SEC. 33, T.25N., R. 44E., W.M.
CITY OF SPOKANE VALLEY, WA

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

NOTE:
CONSTRUCTION OF EVERY DRYWELL AND
INFILTRATION GALLERY, INCLUDING FABRIC
AND DRAIN ROCK, SHALL BE OBSERVED BY
THE ON-SITE INSPECTOR TO CONFIRM THAT
THEY MEET THE DESIGN DETAILS AND
SPECIFICATIONS. DRYWELLS/GALLERIES NOT
OBSERVED SHALL HAVE THEIR PERFORMANCE
VERIFIED BY A FULL-SCALE DRYWELL TEST.



GUSTIN PIPE
UNDER SEPARATE
PERMIT AND
APPLICATION TO
SPOKANE COUNTY

NOTE:
SEE GUSTIN PIPE PLAN SET FOR MORE DETAILS.

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



SITE PLAN VIEW
SCALE: 1"=300'

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CO.2	DISHMAN-MICA RD	C6.0	RETAINING WALL SECTIONS
	CROSS-SECTIONS	C6.1	RETAINING WALL DETAILS
CO.3	THORPE RD & MADISON RD	C6.2	LEVEL SPREADER DETAIL
	CROSS SECTIONS	C7.0	WATER PLAN COVER
C1.0	OVERALL TOPOGRAPHY	C7.1	OVERALL WATER PLAN
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C3.00	DISHMAN-MICA RD PLAN & PROFILE (1)	C8.1	SUNDOWN RD SEWER P & P
C3.01	DISHMAN-MICA RD PLAN & PROFILE (2)	C8.2	SEWER NOTES & DETAILS
C3.02	DISHMAN-MICA RD PLAN & PROFILE (3)	C9.0	SWPPP COVER SHEET
C3.03	SUNDOWN RD & SIDEWALK PLAN & PROFILE	C9.1	SWPPP STANDARD NOTES
C3.10	THORPE RD PLAN & PROFILE (1)	C9.2	SWPPP BMPs
C3.11	THORPE RD PLAN & PROFILE (2)	C9.3	SWPPP BMPs
C3.12	CHESTER CREEK CULVERT WIDENING	C10.0	SIGNING & STRIPING COVER SHEET
C3.20	MADISON RD PLAN & PROFILE (1)	C10.0.1	WCE CHANNELIZATION & SIGNING NOTES
C3.21	MADISON RD PLAN & PROFILE (2)	C10.1	DISHMAN MICA RD SIGNING & STRIPING
C3.22	MADISON RD PLAN & PROFILE (3)	C10.2	THORPE RD SIGNING & STRIPING
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C5.0	FLOOD SYSTEM OVERVIEW		
C5.10	BOX CULVERT-CHANNEL-PIPE PLAN		
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C5.20	MADISON ROAD PIPE P&P		
C5.21	MADISON ROAD PIPE P&P CONT.		
C5.22	MADISON RD CULVERT PLAN		

ABBREVIATIONS

ACT. LEN.	ACTUAL LENGTH	GR	GRADE BREAK	PRC	POINT OF REVERSE CURVE
BCR	BEGINNING OF CURVE RADIUS	FT./FT.	FEET PER FOOT	PT	POINT OF TANGENCY
BORY	BOUNDARY	HYD.	HYDRANT	RM EL.	RM ELEVATION
CC	SEWER CLEANOUT	IN	INVERT ELEVATION	RD	ROAD
CSC	CRUSHED SURFACE	LN	LANE	RT	RIGHT
CT	COURT	LT	LEFT	SI	STREET INTERSECTION
CT.	COURT	MANH.	MANHOLE	SS	SANITARY SEWER
DIA.	DIAMETER	MCR	MIDDLE OF CURVE RADIUS	STA.	STATION
ECR	END OF CURVE RADIUS	OWH	ORDINARY HIGH WATERMARK	STA. LEN.	STATION LENGTH
EXIST.	EXISTING	PC	POINT OF CURVATURE	TC	TOP OF GRADE
G	GRADE	PT.	PETROLEUM	TC	TOP OF CURB
		PI	POINT OF INTERSECTION		

PERMIT SPECIALIST
CITY OF SPOKANE VALLEY
SPokane County
10210 E. SPRAGUE AVE
SPOKANE, WA 99206
PHONE: 720-3240
CONTACT: TYSON SCHROEDER

DEV. CONST. INSP.
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10210 E. SPRAGUE AVE
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CONTACT: COLLIN DEPNER

SEWER
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1026 W BROADWAY AVE
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PHONE: 477-7180
CONTACT: PAUL SAVAGE

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1225 N YARDLEY ST
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PHONE: 536-0121
CONTACT: JUSTIN VAN DYKE

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2120 N WALBY RD
SPOKANE, WA 99206
PHONE: 928-1700
CONTACT: MIKE MAKELA

ROADWAYS
CITY OF SPOKANE VALLEY
10210 E SPRAGUE
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POWER
INLAND POWER & LIGHT CO.
10100 W HALLETT RD
SPOKANE, WA 99224
PHONE: 509-789-4291
CONTACT: CONNIE NELSON

TELEPHONE
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804 N COLUMBUS ST
SPOKANE, WA 99202
PHONE: 835-4604
CONTACT: MARK WELCH

OWNER
BLACK REALTY, INC.
801 W REVERSDIE AVE.
SUITE 400
SPOKANE, WA 99201
PHONE: 623-1000
CONTACT: BRYAN WALKER

HEALTH
SPOKANE REGIONAL HEALTH
1101 W COLLEGE AVE
SPOKANE, WA 99200
PHONE: 477-7180
CONTACT: JOHN LUSE

GAS
AVISTA UTILITIES
1411 E MISSION AVE
SPOKANE, WA 99220
PHONE: 495-2967
CONTACT: JOHN LUSE

INSPECTION
LIBERTY GEOTECH
3012 N SULLIVAN RD, SUITE D
SPOKANE, WA 99216
PHONE: 509-255-3758
CONTACT: BEN VANCE, P.E.

SOLID WASTE
WASTE MANAGEMENT
PHONE: 1-866-909-4558

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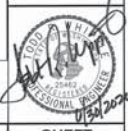
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City of Spokane Valley
Project/Permit No.:
SUB-2016-0001
(Subdivision)
FPO-2016-0007
(Flood Plain Development)
EGR-2016-0006
(Engineered Grading)

City of Spokane Valley
Development Engineering

Revised: _____
Per Street Map - Public: _____

Not Reviewed
 Reviewed for Conformance to
Street Standards and
Accepted per Chapter 1.2
Data Accepted
Acceptance Comments



PLANS
NOT APPROVED
BY AGENCY

DATUM: NAVD - 88

TBM 5 OF THE SOUTH FORDEPOSA SEWER PROJECT
WITH AN ELEVATION OF 2006.87 (NAVD) 009 87
(NAVD) WAS USED FOR THE VERTICAL DATUM FOR THIS
MAP.

NO.	DATE	BY	REVISIONS
3	06/22/20	JMH	REVISED PLANS
2	06/14/18	JRP	REVISED PLANS
1	08-12-16	JPP	ORIGINAL PREPARATION

SCALE:
HORIZONTAL:
1" = 300'
VERTICAL:
N/A

PROJ #: 13-1166
DATE: 06/23/20
DRAWN: JPP/BTT
REVIEWED: TRW



**SPOKANE VALLEY PAINTED HILLS PRD
COVER SHEET
DISHMAN-MICA RD.
SPOKANE VALLEY, WA**

**SHEET
CO.0**

JOB NUMBER
13-1166



SPOKANE VALLEY GENERAL CONSTRUCTION NOTES

(APPENDIX 4A OF CITY OF SPOKANE VALLEY STREET STANDARDS)

1. ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH LATEST EDITION OF THE CITY OF SPOKANE VALLEY STREET STANDARDS, SPOKANE REGIONAL STORMWATER MANUAL AND ALL OTHER GOVERNING AGENCY'S STANDARDS.
2. PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING UNDERGROUND UTILITIES. CALL THE UNDERGROUND UTILITY SERVICE AT 1-800-424-5555 OR 811 BEFORE YOU DIG.
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 ACCEPTED STREET 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 APPLICANT'S ENGINEER AND ONSITE INSPECTOR.
6. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT THE INFILTRATION CAPACITY OF STORMWATER FACILITIES (E.G., LINE THE FACILITY WITH FILTER FABRIC, OVER-EXCAVATE UPON COMPLETION OF THE INFRASTRUCTURE, ETC.)
7. WHERE DIRECTED BY THE CITY OF SPOKANE VALLEY, THE CONTRACTOR SHALL PLACE TRAFFIC CONTROL DEVICES, THE PLACEMENT AND TYPE OF WHICH SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.).
8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH AND CONTACT ALL APPROPRIATE UTILITIES INVOLVED PRIOR TO CONSTRUCTION.
9. ALL PAVEMENT CUTS TO CONNECT UTILITIES SHALL BE REPAIRED IN CONFORMANCE WITH THE REGIONAL PAVEMENT CUT POLICY.
10. ALL SURVEY MONUMENTS SHALL BE PROTECTED DURING CONSTRUCTION BY OR UNDER THE DIRECTION OF A LICENSED SURVEYOR AS REQUIRED BY STATE LAW. ANY DISTURBED OR DAMAGED MONUMENTS SHALL BE REPLACED BY OR UNDER THE DIRECTION OF A LICENSED SURVEYOR PRIOR TO CERTIFICATION/FINAL PLAT AND/OR RELEASE OF SURETY. THE CONTRACTOR IS RESPONSIBLE FOR FILING OF PERMITS FOR MONUMENT REMOVAL AND REPLACEMENT WITH THE WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES, AS REQUIRED BY WAC-120-070.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND ACQUIRING ELECTRICAL INSPECTIONS REQUIRED BY THE STATE.
12. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT ALL REQUIRED PERMITS HAVE BEEN OBTAINED PRIOR TO INITIATING CONSTRUCTION.
13. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL HAVE A CURRENT CITY OF SPOKANE VALLEY BUSINESS LICENSE.
14. THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL BE LICENSED BY THE STATE OF WASHINGTON AND BONDED TO DO WORK IN THE PUBLIC RIGHT OF WAY.
15. NO WORK ON THIS PROJECT SHALL COMMENCE UNTIL A CITY OF SPOKANE VALLEY RIGHT OF WAY PERMIT HAS BEEN ISSUED.
16. THE CONTRACTOR SHALL PROTECT ADJACENT PROPERTIES, PUBLIC AND PRIVATE, AT ALL TIMES DURING CONSTRUCTION.
17. CONTRACTORS SHALL CONTROL DUST IN ACCORDANCE WITH REGULATIONS OF LOCAL AIR POLLUTION CONTROL AUTHORITY.
18. CONTRACTOR SHALL REMOVE ALL CONSTRUCTION RELATED DEBRIS TO AN APPROVED WASTE DISPOSAL SITE.
19. FIRE HYDRANTS SHALL BE INSTALLED AND FUNCTIONING PRIOR TO CONSTRUCTION OF ANY STRUCTURES.
20. CONTRACTOR SHALL MAINTAIN FIRE APPARATUS ACCESS STREETS DURING CONSTRUCTION.
21. THE CONTRACTOR IS REQUIRED TO NOTIFY THE ON-SITE INSPECTOR ONE BUSINESS DAY BEFORE ANY CONSTRUCTION OR PRODUCT PLACEMENT TAKES PLACE THAT REQUIRES TESTING OR OBSERVATION (REFER TO APPENDIX 9A- MINIMUM MATERIAL TESTING FREQUENCIES). THE ON-SITE INSPECTOR WILL DETERMINE THE TIME REQUIRED TO SATISFACTORILY ACHIEVE THE NECESSARY TESTING, OBSERVATION, AND DOCUMENTATION. THE ON-SITE INSPECTOR WILL BE REQUIRED TO BE ON SITE 100% OF THE TIME DURING HMA PLACEMENT, TRENCH WORK AND DRYWELL CONSTRUCTION OF EVERY DRYWELL INCLUDING FABRIC AND DRAINROCK. THE ON-SITE INSPECTOR SHALL CONFIRM THAT THE DRYWELL MEETS THE DESIGN DETAILS AND SPECIFICATIONS. DRYWELLS NOT OBSERVED SHALL HAVE THEIR PERFORMANCE VERIFIED BY A FULL-SCALE DRYWELL TEST.
22. SUPPLEMENTAL NOTES USED WHEN APPLICABLE:
 - A. FOR ANY CURBS GRADES LESS THAN 1.0% (0.01 FT./FT.), A PROFESSIONAL LAND SURVEYOR CURRENTLY LICENSED IN THE STATE OF WASHINGTON SHALL VERIFY THAT THE CURB FORMS ARE AT THE GRADES NOTED ON THE ACCEPTED PLANS, PRIOR TO PLACEMENT OF CONCRETE. THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING AND COORDINATING WORK WITH THE SURVEYOR.
 - B. THE CONTRACTOR SHALL EMPLOY A PROFESSIONAL LAND SURVEYOR CURRENTLY LICENSED IN THE STATE OF WASHINGTON TO VERIFY THAT THE CROSS-SLOTTED FORMS ARE AT THE CORRECT PLANE GRADE PRIOR TO CONCRETE PLACEMENT.
 - C. CONCRETE APRONS ARE REQUIRED AT THE INLET INTO ANY SWALE OR POND. THE FINISH GRADE OF THE SWALE/POND SIDE SLOPE, WHERE THE CONCRETE INLET APRON ENDS, SHALL BE A MINIMUM OF 2 INCHES BELOW THE FINISH ELEVATION OF THE CONCRETE CURB APRON EXTENSION. THE INTENTION IS TO ALLOW STORMWATER RUNOFF TO ENTER THE SWALE/POND UNOBSTRUCTED, WITHOUT BACKING UP INTO THE STREET AND OVERTOPPING DUE TO SOO OVERGROWTH AT THE INLET.
 - D. UNLINED POND AND BIO-INFILTRATION SWALE BOTTOMS ARE EXPECTED TO INFILTRATE VIA THE POND FLOOR, AND THEREFORE, SHALL NOT BE HEAVILY COMPACTED. EQUIPMENT TRAFFIC SHALL BE MINIMIZED ON THE POND BOTTOMS. THE FACILITY SUB-GRADE SHALL BE A MEDIUM- TO WELL-DRAINING MATERIAL, WITH A MINIMUM THICKNESS OF 48 INCHES AND A MINIMUM INFILTRATION RATE OF 0.15 IN./HR. THE FACILITY SHALL DRAIN WITHIN 72 HOURS OF A STORM EVENT. IF THE POND ALSO SERVES AS A WATER QUALITY TREATMENT FACILITY, THE TREATMENT ZONE (SOO AND 6 INCHES OF TREATMENT SOIL) SHALL BE A MEDIUM-TO WELL-DRAINING MATERIAL, WITH A MINIMUM INFILTRATION OF 0.25-0.50 IN./HR. SCARIFY THE FINISH GRADE OF THE POND BOTTOM PRIOR TO HYDROSEEDING/SODDING. TESTING THAT VERIFIES SUBGRADE MINIMUM INFILTRATION RATE MAY BE REQUIRED BY THE LOCAL JURISDICTION PRIOR TO CONSTRUCTION CERTIFICATION TO ENSURE ADEQUATE DRAINAGE. INFILTRATIVE TESTING OF THE TREATMENT ZONE IS ONLY REQUIRED IF SOILS OTHER THAN SILTY LOAM OR LOAMY SOILS ARE PROPOSED.
 - E. IF DURING FINAL INSPECTION, IT IS FOUND THAT THE CONSTRUCTED POND OR SWALE DOES NOT CONFORM TO THE ACCEPTED DESIGN, THE SYSTEM SHALL BE RECONSTRUCTED SO THAT IT DOES COMPLY. REFER TO APPENDIX 9A OF THE SPOKANE REGIONAL STORMWATER MANUAL FOR EROSION AND SEDIMENT CONTROL STANDARD NOTES.

STORM DRAINAGE NOTES

- A) PER SPOKANE REGIONAL STORMWATER MANUAL METHODS, A QUALIFIED LICENSED ENGINEER SHALL EVALUATE, CLASSIFY AND DOCUMENT THE SOILS IN THE EXCAVATED DRYWELL INFILTRATION ZONE PRIOR TO INSTALLATION OF THE FILTER FABRIC, DRAINAGE ROCK OR DRYWELL BARREL AND SHALL DETERMINE IF THE SOIL'S CONDITIONS WILL BE SUITABLE AND CAPABLE OF INFILTRATING STORM WATER AT THE DESIGN FLOW RATE. THE ENGINEER SHALL SUBMIT A COPY OF THE DOCUMENTATION DETAILING THE OBSERVATIONS, THE CONCLUSIONS AND THE BASIS FOR THE CONCLUSIONS TO CITY OF SPOKANE VALLEY DEVELOPMENT ENGINEERING. IF THE ENGINEER DETERMINES THAT THE SOILS DO NOT MEET THE DESIGN'S REQUIREMENTS OR THAT A CONDITION EXISTS PREVENTING THE DRYWELL FROM FUNCTIONING AS DESIGNED, THE DESIGN ENGINEER SHALL BE NOTIFIED AND THE DESIGN REVISED TO MEET EXISTING CONDITIONS. ANY REVISIONS TO THE DESIGN SHALL BE SUBMITTED TO THE CITY OF SPOKANE VALLEY FOR REVIEW AND ACCEPTANCE.
- B) CONSTRUCTION OF EVERY DRYWELL, INCLUDING FABRIC AND DRAIN ROCK, 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.

DATUM: NAVD - 88
 TBM 84 OF THE SOUTH POKANEROGA SEWER PROJECT
 WITH AN ELEVATION OF 2025.87 (NAD83) - 2009.87
 (NAD83) WAS USED FOR THE VERTICAL DATUM FOR THIS
 MAP.

SCALE:	PROJ #:	13-1166
HORIZONTAL:	DATE:	06/23/20
N/A	DRAWN:	RMA
VERTICAL:	REVIEWED:	TRW
N/A		

<input checked="" type="checkbox"/>	SOIL
<input type="checkbox"/>	STRUCTURAL
<input type="checkbox"/>	SURVEYING
<input type="checkbox"/>	TRAFFIC
<input type="checkbox"/>	PLANNING
<input type="checkbox"/>	LANDSCAPE
<input type="checkbox"/>	OTHER



SPOKANE VALLEY PAINTED HILLS PRD
GENERAL NOTES
DISHMAN-MICA RD.
SPOKANE VALLEY, WA

PLANS
 NOT APPROVED
 BY AGENCY

City of Spokane Valley Project/Permit No.:	SUB-2015-0001 (Subdivision) FPO-2014-0007 (Flood Plain Development) IGN-2015-0066 (Engineered Grading)
City of Spokane Valley Development Engineering	
Revised:	
See Sheet Also - Public:	
<input type="checkbox"/> Not Reviewed	
<input type="checkbox"/> Reviewed for Conformance to Street Standards and Accepted per Chapter 1.2	
Date Accepted:	
Acceptance Comments:	



SHEET CO. 1
JOB NUMBER 13-1166

WCE GENERAL NOTES

- ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION SITE IMPROVEMENTS SHALL MEET OR EXCEED THE WSDOT/APWA STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION CURRENT IN EFFECT AS MODIFIED BY THE STANDARDS AND SPECIFICATIONS SET FORTH IN THE "CITY OF SPOKANE VALLEY/SPOKANE COUNTY DESIGN REGULATIONS AND OTHER APPLICABLE STANDARDS." THE HIGHER QUALITY STANDARD SHALL APPLY. ALL WORK WITHIN PUBLIC R.O.W. OR EASEMENTS SHALL BE INSPECTED AND APPROVED BY THE "CITY OF SPOKANE VALLEY/SPOKANE COUNTY INSPECTION SERVICES AND CONSTRUCTION CERTIFICATION TO BE PROVIDED BY DESIGNEE OF PROJECT SPONSOR/OWNER."
- 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL NOTIFY THE "CITY OF SPOKANE VALLEY/SPOKANE COUNTY INSPECTOR AT LEAST 48 HOURS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITY OR CONSTRUCTION ON ANY AND ALL PUBLIC IMPROVEMENTS."
- THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE "CITY OF SPOKANE VALLEY/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."
- 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO: EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.
- IF, DURING THE CONSTRUCTION PROCESS, CONDITIONS ARE ENCOUNTERED BY THE CONTRACTOR, HIS SUBCONTRACTORS, OR OTHER AFFILIATED PARTIES WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
- ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.
- FOR WORK AFFECTING PUBLIC ROADWAYS OR IF REQUIRED BY THE "CITY OF SPOKANE VALLEY/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 "CITY OF SPOKANE VALLEY/SPOKANE COUNTY."
- 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.
- PER AGENCY STANDARDS THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING RECORD INFORMATION ON A SET OF RECORD DRAWINGS KEPT AT THE CONSTRUCTION SITE AND AVAILABLE TO THE "CITY OF SPOKANE VALLEY/SPOKANE COUNTY INSPECTOR AT ALL TIMES."
- 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.
- ALL EROSION AND SEDIMENT CONTROL (E.S.C.) MEASURES SHALL BE INSTALLED AT THE LIMITS OF CONSTRUCTION PRIOR TO GRADING DISTURBING ACTIVITY. ALL E.S.C. MEASURES SHALL BE MAINTAINED IN GOOD REPAIR BY THE CONTRACTOR UNTIL SUCH TIME AS THE ENTIRE DISTURBED AREA ARE STABILIZED WITH HARD SURFACE OR LANDSCAPING.
- 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 COMPLETED IN THESE PLANS.
- ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY IS SUBJECT TO THE JURISDICTION OF THE "CITY OF SPOKANE VALLEY/SPOKANE COUNTY ENGINEERING DEPARTMENT STANDARD DETAILS AND SPECIFICATIONS."
- 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 "CITY OF SPOKANE VALLEY/SPOKANE COUNTY."
- BASED ON REQUIREMENTS FROM "CITY OF SPOKANE VALLEY/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 "CITY OF SPOKANE VALLEY/SPOKANE COUNTY ENGINEER."
- NO REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT APPROVAL OF THE "CITY OF SPOKANE VALLEY/SPOKANE COUNTY ENGINEERS AND NOTIFICATION OF THE ENGINEER OF RECORD."
- 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 OF SPOKANE VALLEY/SPOKANE COUNTY DEPARTMENT OF BUILDING AND PLANNING AT ***CITY 509-220-5240 & COUNTY 509-477-3575***. 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 PLANS, DESIGNATED DRAINAGE WAYS, ETC.
- 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 E.T.C. 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 TO 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.
- 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.
- 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.
- 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 ANS111.1 (2003), ALONG WITH THE FAIR HOUSING ACT, HUD'S FAIR HOUSING ACT REGULATIONS, AND GUIDELINES.
- ALL FIRE LINES MUST BE INSTALLED BY AN APPROVED LEVEL "V" CONTRACTOR OR A LEVEL 3 FIRE PROTECTION CONTRACTOR.
- CONTRACTOR IS NOTIFIED THAT SOME OR ALL OF THE PAVEMENT CUTS TO INSTALL DRY UTILITIES, SEWERS, WATER, STORM OR OTHER TIE-IN'S SHALL BE COORDINATED WITH THE "CITY OF SPOKANE VALLEY/SPOKANE COUNTY AS SPECIFIC PAVEMENT CUT POLICIES MAY BE IN EFFECT THAT ARE NOT NOTED ON THE PLANS.
- THE CONTRACTOR IS NOTED THAT IT IS NOT THE OWNERS, ENGINEERS, CITY'S NOR THE INSPECTION AND TESTING COMPANY'S (THE PARTIES) RESPONSIBILITY TO ANTICIPATE WHEN CONSTRUCTED ELEMENTS WILL BE READY FOR INSPECTION AND TESTING. THE CONTRACTOR IS RESPONSIBLE TO NOTIFY ALL PARTIES THAT CERTAIN CONSTRUCTED ELEMENTS ARE BEING INSTALLED AND ON WHAT DATE THEY WILL BE INSTALLED. IF SUCH FAILURE TO NOTIFY THEN RESULTS IN LACK OF INSPECTIONS AND TESTING SERVICES FOR CERTAIN ELEMENTS, THE CONTRACTOR SHOULD NOT EXPECT THAT THIS LACK OF INSPECTION AND TESTING WILL RESULT IN THE BLANKET APPROVAL OF SUCH ITEM. THE CONTRACTOR IS NOTIFIED THAT SUBSEQUENT REMOVAL AND RECONSTRUCTION OF SUCH ELEMENTS IS TO BE BORNE BY THE CONTRACTOR AND OR THEIR SUB-CONTRACTOR PROVIDING THE SERVICE AND THE INSTALLATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE SURE THAT ALL PARTIES ARE ADEQUATELY NOTIFIED. NOTIFICATION WILL BE BY TWO MEANS FOR EACH REQUEST/OCCURRENCE THE ACCEPTABLE MEANS ARE AS FOLLOWS, EMAIL, TEXT, FAX OR PHONE. NOTIFICATION SHALL INCLUDE ELEMENT, DATE AND CONSTRUCTION START TIME. EXCESSIVE STANDBY TIME ON THE PART OF THE PARTIES MAY RESULT IN A BACK CHARGE TO THE CONTRACTOR.

WCE GRADING NOTES

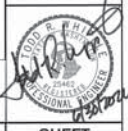
- CONTOURS AND / OR ELEVATIONS SHOWN ARE FOR FINISHED PAVING, SIDEWALK, SLOPE, OR GROUND. ADJUSTMENT TO SUBGRADE IS THE CONTRACTOR'S RESPONSIBILITY.
- ALL DISTURBED AREAS THAT ARE SUBSIDIARY OR ARE NOT DESIGNATED AS LANDSCAPE AREAS ARE TO BE SEED, FERTILIZED, AND WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
- IF DURING THE OVERTOP GRADING PROCESS, CONDITIONS ARE ENCOUNTERED WHICH WOULD INDICATE AN UNDESIRABLE SITUATION IS PRESENT, THE SOILS ENGINEER SHALL BE CONTACTED FOR RECOMMENDATIONS.
- UNLESS OTHERWISE SHOWN, NO PROPOSED SLOPE SHALL EXCEED THREE (3) HORIZONTAL TO ONE (1) VERTICAL. ALL SLOPED AREAS MUST BE PROTECTED FROM EROSION.
- 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 SEED WITH NATIVE SEED MIX IMMEDIATELY AFTER STRIPPING OPERATIONS ARE COMPLETE.
- 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.
- 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 PROVIDE SURVEY NOTES OF SUCH TO PROJECT ENGINEER PRIOR TO COMMENCING CONSTRUCTION.
- ALL UTILITIES (MANHOLES, VALVE COVERS, CLEANOUTS, VAULTS, BOXES, ETC.) SHALL BE ADJUSTED TO FINAL GRADE PRIOR TO THE FINAL LIFT OF ASPHALT.
- 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 EMBANKMENTS 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.
- SPOT ELEVATIONS REPRESENT FLOW LINE OR TOP OF ASPHALT UNLESS OTHERWISE NOTED.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING HIS OWN ESTIMATE OF EARTHWORK QUANTITIES.
- 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 COMMENCING CONSTRUCTION. 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 FORMS WITHOUT THE APPROVAL OF THE ENGINEER.
- THE EARTHWORK FOR ALL BUILDING FOUNDATIONS AND SLABS SHALL BE IN ACCORDANCE WITH ARCHITECTURAL BUILDING PLANS AND SPECIFICATIONS.
- PRE CAST STRUCTURES MAY BE USED AT CONTRACTORS OPTION.
- EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
- EXISTING GRADE CONTOUR INTERVALS SHOWN AT 1' FOOT INTERVALS.
- 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.
- CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
- CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
- 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.
- ALL SUBSURFACE AREA DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3:1 V OR STEEPER. (CONTRACTOR SHALL PLACE SOO 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 CONTOUR/SLOPE MAY BE ACCEPTABLE. THE SITE GEOTECHNICAL ENGINEER MUST BE CONSULTED.
- CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND SITE SHALL BE CONSTRUCTED TO SAME.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES AND NOTIFYING THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING CONSTRUCTION.
- 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 COMPANY 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.
- ENGINEER SHALL BE NOTIFIED WHEN "CURBING STRING LINE" HAS BEEN SET, PRIOR TO CURBING BEING INSTALLED.
- ALL DRYWELLS TO BE INSTALLED TO HAVE (1') ONE OF VERTICAL ADJUSTMENT.
- ENGINEERING OR THE OWNER'S INSPECTION REPRESENTATIVE SHALL BE ON SITE, AND SHALL CALL TRUCK TICKETS FOR DRYWELL ROCK, AND SOIL.
- ALL PIPE SHALL BE INSTALLED WITH EITHER A SAND COLLAR, KOR-N-SEAL OR APPROVED EQUIVALENT.

WCE STORM DRAINAGE NOTES

- SEE STREET PLAN AND PROFILE SHEETS FOR DRYWELL AND CATCH BASIN TYPES AND LOCATIONS.
- SWALE/PONDS SHALL BE CONSTRUCTED PER THE REQUIREMENTS OF THESE DRAWINGS INCLUDING GRADING, SOO, 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.
- ALL SWALES/PONDS SHOWN SHALL BE ROUGH GRADED PRIOR TO PAVING OF ADJACENT ROADWAY.
- CONTRACTOR SHALL PROVIDE CITY OF SPOKANE WITH AS-BUILT IRRIGATION PLANS UPON COMPLETION OF ALL SWALE/POND CONSTRUCTION.
- INSTALL "AMOCO" #4545 FILTER FABRIC (OR APPROVED EQUAL) BETWEEN THE NATIVE SOIL AND WASHED DRINK ROCK, FOR ALL DRYWELLS. SEE CITY OF SPOKANE STANDARD PLAN B-102C FOR INSTALLATION LOCATIONS.
- 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 SOO WITHIN THE SWALES/PONDS FOLLOWING THE ROAD PAVING WORK.
- 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.
- 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 FROM GOING BACK INTO THE WATER SUPPLY.
- THE FLOOR OF ALL GRASSED PERCOLATION AREAS (SPA) (SWALES/PONDS) INCLUDING 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 GPA SWALE SHALL BE 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 LANDSCAPING/SOO 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.
- WHEN TWO OR MORE CURB INLETS ARE USED, SET POND BOTTOM WITH RESPECT TO THE LOWEST CURB INLET GROUND FLOWLINE ELEVATION.
- THE TOP 12" OF SOIL FOR ALL SWALE/POND BOTTOMS SHALL CONSIST OF THOROUGHLY BLENDING MIX OF SUB-CROCK WITH SOLE NATIVE SOILS, OR AS APPROVED BY SITE GEOTECHNICAL ENGINEER.
- 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 MILIEQUIVALENTS/100 GRAMS OR AT LEAST 2% OF ORGANIC MATTER BY WEIGHT. SEE TABLE E-1, PG. 6-16 OF THE SPOKANE REGIONAL STORMWATER MANUAL, OR AS APPROVED BY SITE GEOTECHNICAL ENGINEER.
- WARNING: THE USE OF SILTY LOAM IS PROHIBITED AS SWALE/PONDS BOTTOM MATERIAL.
- ALL DRYWELLS TO HAVE 1' ONE VERTICAL FOOT OF ADJUSTMENT
- THE ENGINEER SHALL BE ON SITE, AND SHALL CALL TRUCK TICKETS FOR THE DRYWELL ROCK AND SOIL.
- BLEEVING: PROVIDE BLEEVING AS REQUIRED UNDER SIDEWALKS, PATHS, CURBING, PAVING, ETC. AS NEEDED FOR IRRIGATION ACCESS. ALL BLEEVING TO BE 4" PVC WITH AT LEAST 12" OF COVER (1) FOOT BELOW FINISH GRADE. THE OWNER/GENERAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING BLEEVING 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 OR UNDER WATERS, FENCES, WALLS, DRIVES, ETC.
- WATER POWER SUPPLY: THE OWNER/GENERAL CONTRACTOR IS TO SUPPLY WATER TAPS FOR HOOK-UP AND SUPPLY POWER FOR CONTROLLER.



PLANS NOT APPROVED BY AGENCY



▲ DATUM: NAVD - 88
 81% OF THE SOUTH PORTION OF SPOKANE COUNTY
 WITH AN ELEVATION OF 2005.87 (NAV2005) - 2009.47
 (NAVD88) WAS USED FOR THE VERTICAL DATUM FOR THIS MAP.

3	06-22-20 JMH	REVISION PLANS			
2	08-14-18 JPP	REVISED PLANS			
1	08-12-18 JPP	ORIGINAL PREPARATION			
	NO DATE	BY	REVISIONS		

SCALE:	PROJ #: 13-1166	X SITE
HORIZONTAL:	DATE: 06/23/20	STRUCTURAL
N/A	DRAWN: RMA	SURVEYING
VERTICAL:	REVIEWED: TRW	TRAFFIC
N/A		PLUMBING
		LANDSCAPE
		OTHER



SPOKANE VALLEY PAINTED HILLS PRD
WCE GENERAL NOTES
DISHMAN-MICA RD.
SPOKANE VALLEY, WA

SHEET
CO.1A
JOB NUMBER
13-1166

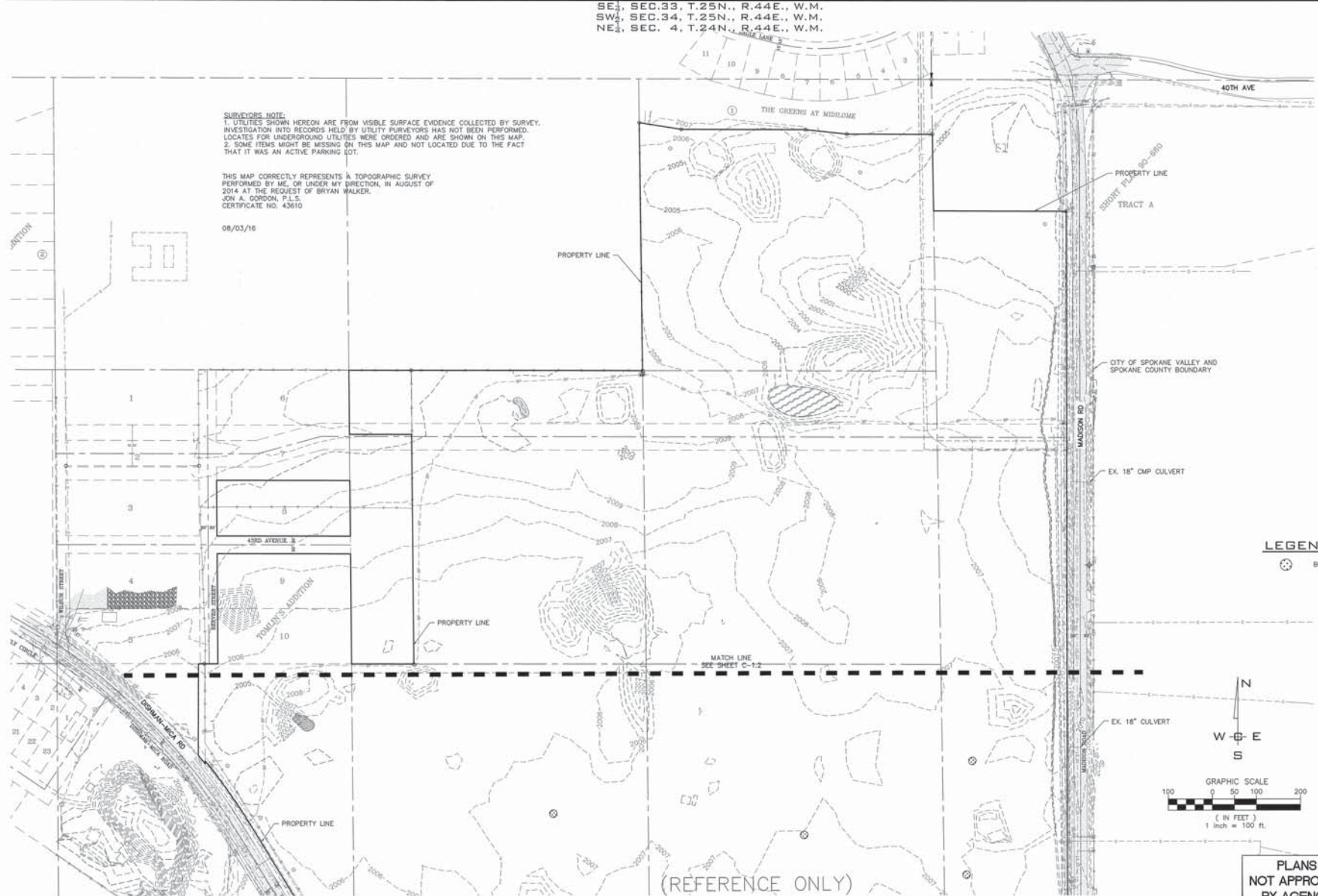
SE 1/4, SEC. 33, T. 25N., R. 44E., W.M.
 SW 1/4, SEC. 34, T. 25N., R. 44E., W.M.
 NE 1/4, SEC. 4, T. 24N., R. 44E., W.M.

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

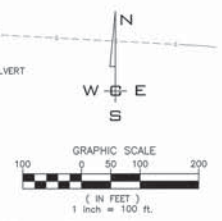
SURVEYORS NOTE:
 1. UTILITIES SHOWN HEREON ARE FROM VISIBLE SURFACE EVIDENCE COLLECTED BY SURVEY. INVESTIGATION INTO RECORDS HELD BY UTILITY PURVEYORS HAS NOT BEEN PERFORMED. LOCATES FOR UNDERGROUND UTILITIES WERE ORDERED AND ARE SHOWN ON THIS MAP.
 2. SOME ITEMS MIGHT BE MISSING ON THIS MAP AND NOT LOCATED DUE TO THE FACT THAT IT WAS AN ACTIVE PARKING LOT.

THIS MAP CORRECTLY REPRESENTS A TOPOGRAPHIC SURVEY PERFORMED BY ME, OR UNDER MY DIRECTION, IN AUGUST OF 2014 AT THE REQUEST OF BRYAN WALKER, JON A. GORDON, P.L.S., CERTIFICATE NO. 43610

08/03/16



LEGEND
 ☉ BORE HOLE LOCATION



PLANS NOT APPROVED BY AGENCY

(REFERENCE ONLY)

⚡ **DATUM: NAVD - 88**
 18M 5.4 OF THE SOUTH PIONEEROSA SEWER PROJECT WITH AN ELEVATION OF 2005.87 (NAVD08) - 2009.67 (NAVD08) WAS USED FOR THE VERTICAL DATUM FOR THIS MAP.

NO.	DATE	BY	REVISIONS
3	06/22/20	JMH	REVISED PLANS
2	09-14-18	JPP	REVISED PLANS
1	08-12-18	JPP	ORIGINAL PREPARATION

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

PROJ #: 13-1166
DATE: 06/23/20
DRAWN: JPP
REVIEWED: TRW

X CIVIL
 STRUCTURAL
 SURVEYING
 TRAFFIC
 PLANNING
 LANDSCAPE
 OTHER

IWCE
 WHIPPLE CONSULTING ENGINEERS
 2208 NORTH SULLY ROAD
 SPOKANE VALLEY, WA 99216
 PH: 509-893-2617 FAX: 509-893-2627

**SPOKANE VALLEY PAINTED HILLS PRD
 NORTH TOPOGRAPHY MAP
 DISHMAN-MICA RD.
 SPOKANE VALLEY, WA**

City of Spokane Valley
 Project (Permit No.):
 SUB-2015-0001
 (Subdivision)
 SPD-2016-0007
 (Flood Plain Development)
 EGR-2016-0006
 (Engineered Grading)

City of Spokane Valley
 Development Engineering

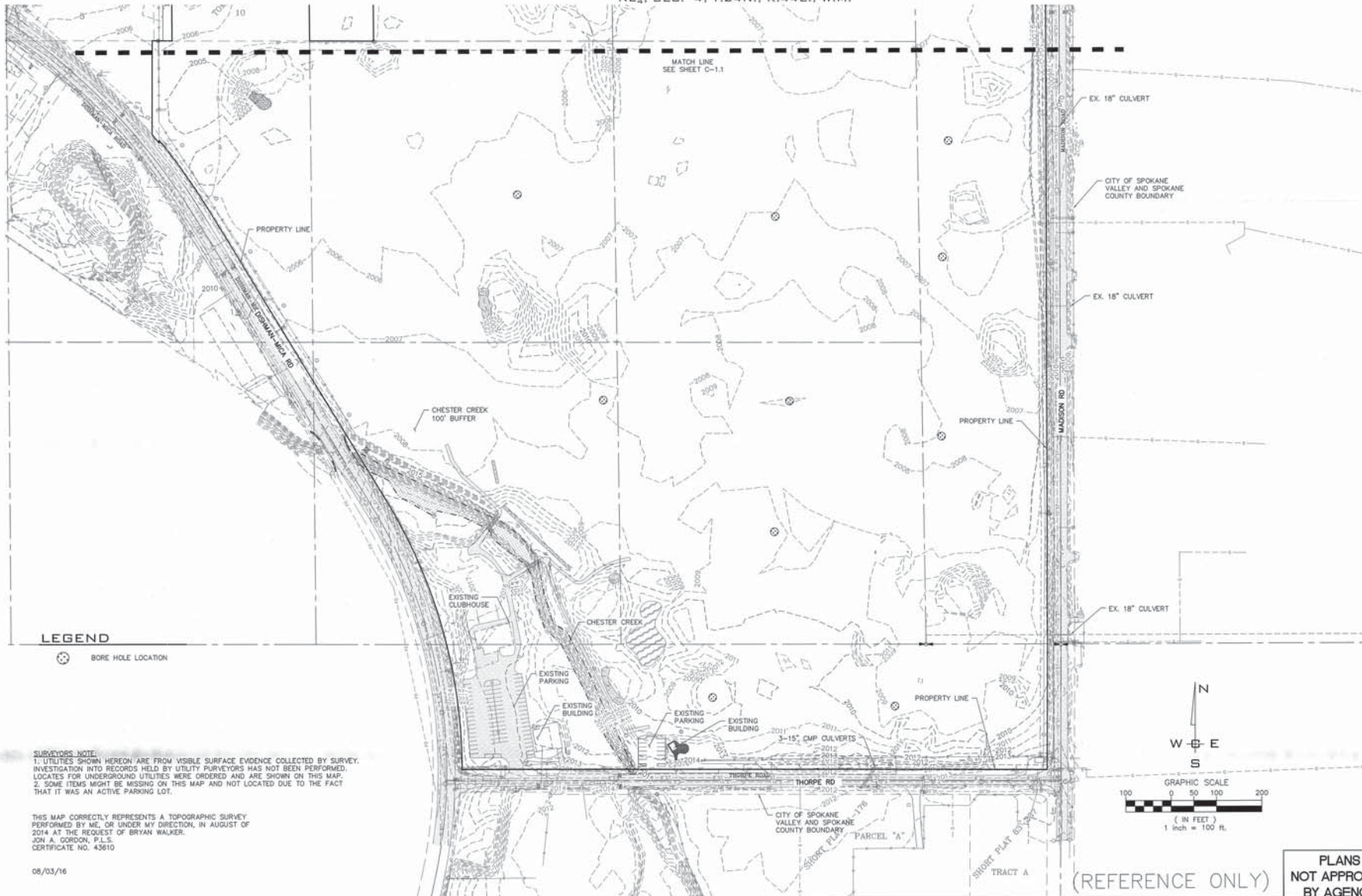
Reviewed:
 For Street Use - Public: _____
 Not Reviewed
 Reviewed for Conformance to Street Standards and Accepted per Chapter 1.2
 Date Accepted: _____
 Acceptance Comments: _____

SHEET C1.1

JOB NUMBER
13-1166

SE 1/4, SEC. 33, T. 25N., R. 44E., W.M.
 SW 1/4, SEC. 34, T. 25N., R. 44E., W.M.
 NE 1/4, SEC. 4, T. 24N., R. 44E., W.M.

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



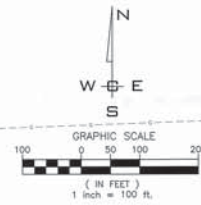
LEGEND

⊗ BORE HOLE LOCATION

SURVEYOR'S NOTE:
 1. UTILITIES SHOWN HEREON ARE FROM VISIBLE SURFACE EVIDENCE COLLECTED BY SURVEY. INVESTIGATION INTO RECORDS HELD BY UTILITY PURVEYORS HAS NOT BEEN PERFORMED. LOCATES FOR UNDERGROUND UTILITIES WERE ORDERED AND ARE SHOWN ON THIS MAP.
 2. SOME ITEMS MIGHT BE MISSING ON THIS MAP AND NOT LOCATED DUE TO THE FACT THAT IT WAS AN ACTIVE PARKING LOT.

THIS MAP CORRECTLY REPRESENTS A TOPOGRAPHIC SURVEY PERFORMED BY ME, OR UNDER MY DIRECTION, IN AUGUST OF 2014 AT THE REQUEST OF BRYAN WALKER.
 JON A. GORDON, P.L.S.
 CERTIFICATE NO. 43610

08/03/16



(REFERENCE ONLY)

PLANS
 NOT APPROVED
 BY AGENCY

City of Spokane Valley
 Project/Permit No.:
 SUB-2015-0001
 (Subdivision)
 FPD-2014-0007
 (Flood Plain Development)
 EGR-2015-0066
 (Engineered Grading)
 City of Spokane Valley
 Development Engineering
 Reviewer: _____
 New Street Work - Public: _____
 Not Reviewed
 Reviewed for Conformance to
 Street Standards and
 Accepted per Chapter 1.2
 Date Accepted: _____
 Acceptance Comments



⬇️ DATUM: NAVD - 88
 TBM 5-6 OF THE SOUTH FORGERSOSA SEWER PROJECT
 WITH AN ELEVATION OF 2008.87 (NAVD2011) = 2009.67
 (NAVD88) WAS USED FOR THE VERTICAL DATUM FOR THIS
 MAP

NO.	DATE	BY	REVISIONS
3	08-22-20	JMH	REVISED PLANS
2	08-14-18	JPP	REVISED PLANS
1	08-12-18	JPP	ORIGINAL PREPARATION

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

PROJ. #: 13-1166
DATE: 06/23/20
DRAWN: JPP
REVIEWED: TRW

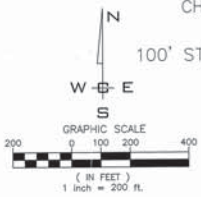
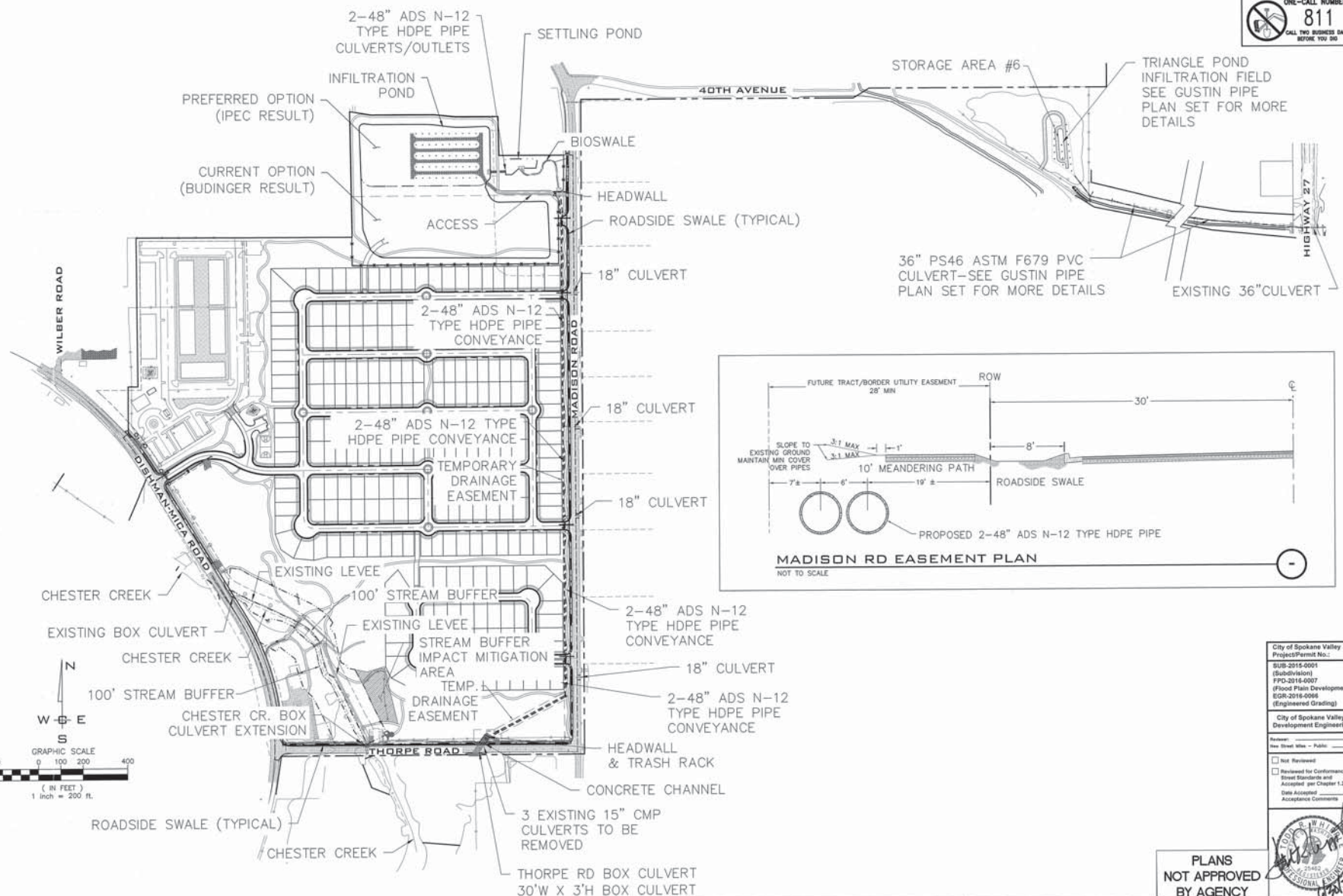
X CIVIL
 STRUCTURAL
 SURVEYING
 TRAFFIC
 PLANNING
 LANDSCAPE
 OTHER



**SPOKANE VALLEY PAINTED HILLS PRD
 SOUTH TOPOGRAPHY MAP
 DISHMAN-MICA RD.
 SPOKANE VALLEY, WA**

**SHEET
 C1.2**
 JOB NUMBER
13-1166

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



NO.	DATE	BY	REVISIONS
1	08-12-16	JPP	ORIGINAL PREPARATION
2	06-14-18	JPP	REVISED PLANS
3	06-22-20	JMM	REVISED PLANS

SCALE:
 HORIZONTAL: 1" = 200'
 VERTICAL: N/A

PROJ #: 13-1166
DATE: 06/23/20
DRAWN: JPP
REVIEWED: TRW



**SPOKANE VALLEY PAINTED HILLS PRD
 SITE ELEMENT PLAN
 DISHMAN-MICA RD.
 SPOKANE VALLEY, WA**

PLANS
 NOT APPROVED
 BY AGENCY

City of Spokane Valley
 Project/Permit No.:
 SUB-2016-0001
 (Subdivision)
 PFD-2016-0007
 (Flood Plain Development)
 EGR-2016-0006
 (Engineered Grading)

City of Spokane Valley
 Development Engineering

Review:
 Not Reviewed
 Reviewed for Conformance to Street Standards and Adopted per Chapter 1.3
 Date Accepted: _____
 Acceptance Comments: _____



**SHEET
 C1.3**

JOB NUMBER
13-1166

DATUM: NAVD - 88
 TBM 54 OF THE SOUTH HONOLULUA BOYER PROJECT
 WITH AN ELEVATION OF 2029.87 (NAVD29) - 3009.87
 (NAVD88) WAS USED FOR THE VERTICAL DATUM FOR THIS
 MAP.

SE 1/4, SEC. 33, T. 25N., R. 44E., W.M.
 SW 1/4, SEC. 34, T. 25N., R. 44E., W.M.
 NE 1/4, SEC. 4, T. 24N., R. 44E., W.M.

CONSTRUCTION NOTES

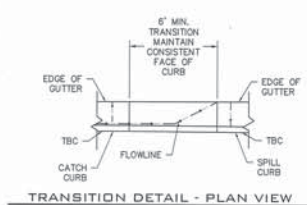
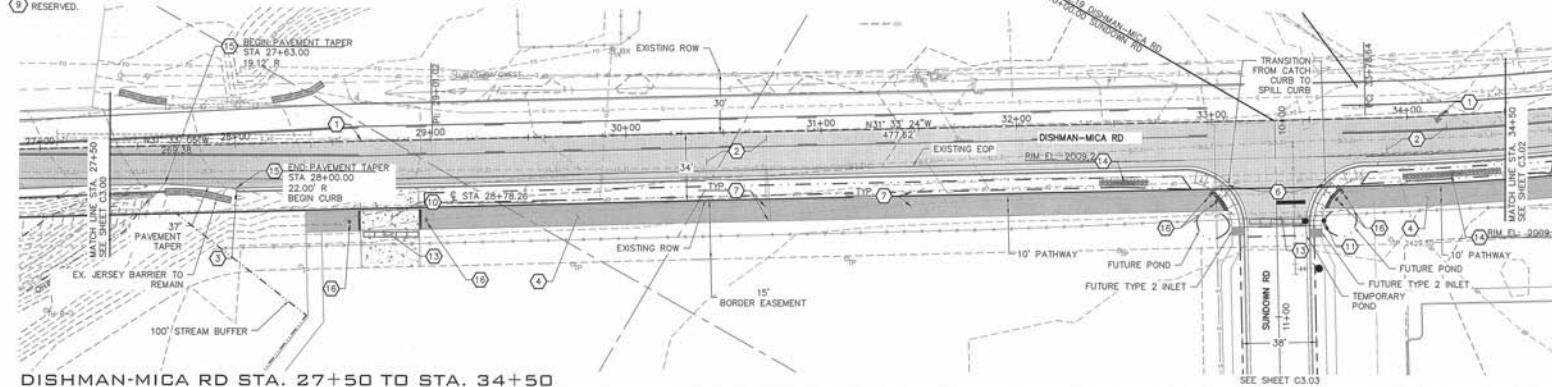
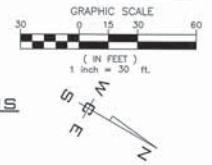
- 1 SAWCUT AT CENTERLINE AND REMOVE EXISTING ASPHALT. TACK COAT AND MATCH TO EXISTING ASPHALT WITH NEW ASPHALT PER CITY OF SPOKANE VALLEY SPECIFICATIONS.
- 2 CONSTRUCT ROAD WIDENING PER TYPICAL SECTIONS. SEE SHEET C0.2.
- 3 PROVIDE AND INSTALL TYPE B SPILL CURB AND GUTTER PER CITY OF SPOKANE VALLEY STANDARD PLAN R-102.
- 4 PROVIDE AND INSTALL 10' WIDE ASPHALT PATHWAY. 2" HMA CLASS 2"-6" CSTC ON 92% COMPACTED SUBGRADE.
- 5 RESERVED.
- 6 PROVIDE AND INSTALL PEDESTRIAN RAMP PER CITY OF SPOKANE VALLEY STANDARD PLAN R-107.
- 7 RELOCATE EXISTING UTILITIES TO 2' MINIMUM BEHIND PROPOSED CURB PER STANDARD PLAN U-101. CONTRACTOR TO COORDINATE WITH APPROPRIATE AGENCY PRIOR TO RELOCATION.
- 8 RESERVED.
- 9 RESERVED.
- 10 PROVIDE AND INSTALL 30' WIDE TYPE II COMMERCIAL DRIVEWAY PER SPOKANE VALLEY STANDARD PLAN R-111, WITHOUT SIDEWALK. INSTALL TACTILE WARNING STRIP AT PATH CONNECTIONS.
- 11 PROVIDE AND INSTALL L.E.D. STREET LIGHT (EQUIVALENT OF A 300W HIGH PRESSURE SODIUM LIGHT) LOCATED ON WOODEN POLE COORDINATE FINAL LOCATION AND POWER SUPPLY WITH INLAND POWER.
- 12 PROVIDE AND INSTALL CURB TRANSITION PER DETAIL, THIS SHEET.
- 13 PROVIDE AND INSTALL TYPE B BARRICADES PER CITY OF SPOKANE VALLEY STANDARD PLAN R-142 AT EACH APPROACH UNTIL APPROACH IS OPERATIONAL.
- 14 PROVIDE AND INSTALL CATCH BASIN AND INFILTRATION GALLERY PER CITY OF SPOKANE VALLEY STANDARD PLAN 5-112. SEE DETAILS 3 AND 4 ON SHEET C3.12 FOR INFILTRATION GALLERY INSTALLATION. SEE PLAN VIEW FOR RIM ELEVATIONS.
- 15 TAPER TO MATCH EXISTING ASPHALT.
- 16 PROVIDE AND INSTALL BOLLARD TYPE 3 PER WSDOT STANDARD PLAN RD-14. SEE SHEET C3.02.

ALL EXISTING UTILITY STRUCTURES, CABINETS, POLES, OR WIRES IF NOT CALLED OUT TO BE REMOVED/MOVED/OR REPLACED SHALL BE PROTECTED DURING CONSTRUCTION.

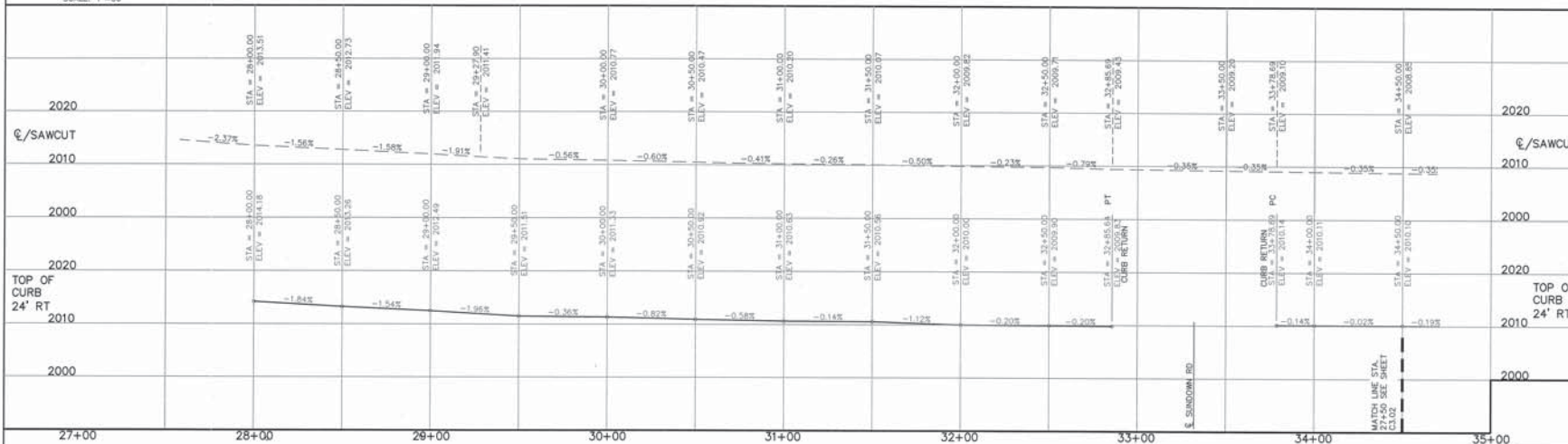
SEE SHEET C10.0 FOR SIGNING AND STRIPING PLAN.

TAPER CALCULATIONS
 L= WS
 L= 0.8(45)= 36'

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



DISHMAN-MICA RD STA. 27+50 TO STA. 34+50
 SCALE: 1"=30'



DISHMAN-MICA RD STA. 27+50 TO STA. 34+50
 SCALE: 1"=30'

PLANS NOT APPROVED BY AGENCY

DATUM: NAVD - 88
 1984 5-5 OF THE SOUTH PONDEROSA SEWER PROJECT WITH AN ELEVATION OF 2009.87 (NAVC09-2009.87) (NAVC08) WAS USED FOR THE VERTICAL DATUM FOR THIS MAP.

NO.		DATE	BY	REVISIONS
3	06/22/20	JMH		REVISED PLAN
2	09-14-16	JPP		REVISED PLANS
1	08-12-16	JPP		ORIGINAL PREPARATION

SCALE:
 HORIZONTAL: 1"=30'
 VERTICAL: 1"=10'

PROJ #: 13-1168
 DATE: 06/23/20
 DRAWN: JPP
 REVIEWED: TRW

ROAD
 STRUCTURAL
 SURVEYING
 TRAFFIC
 PLANNING
 LANDSCAPE
 OTHER

IWCE
 WHIPPLE CONSULTING ENGINEERS
 2026 NORTH SULLY AVENUE
 SPOKANE VALLEY, WA 99218
 PH 509-893-8811 FAX 509-893-2227

SPOKANE VALLEY PAINTED HILLS PRD
DISHMAN-MICA RD PLAN & PROFILE (2)
DISHMAN-MICA RD.
SPOKANE VALLEY, WA

City of Spokane Valley
 Project/Parent No.:
 SUB-2015-0001
 (Subdivision)
 FPD-2016-0007
 (Flood Plain Development)
 EGR-2015-0056
 (Engineered Grading)

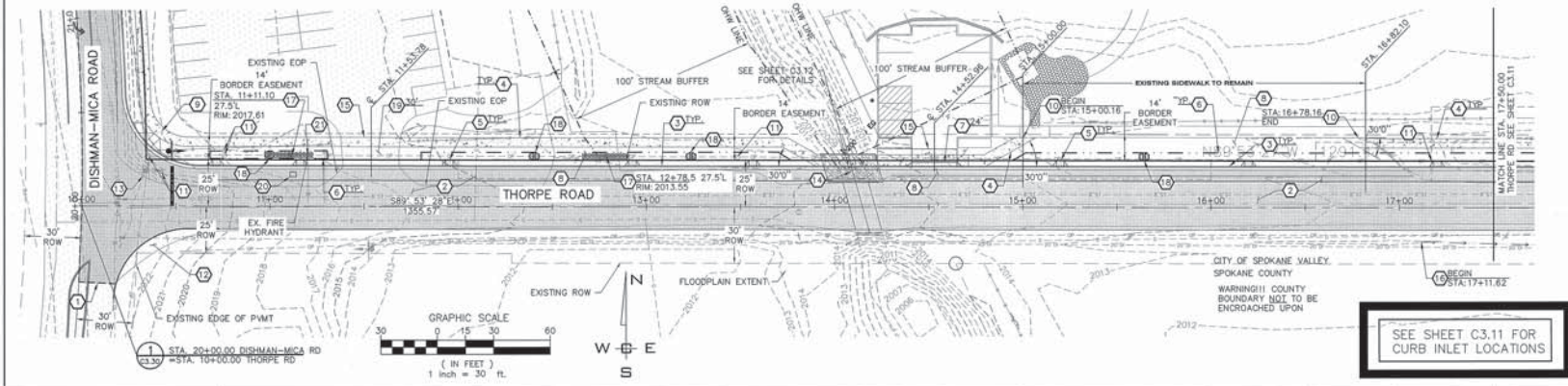
City of Spokane Valley
 Development Engineering

Review:
 Not Reviewed
 Reviewed for Conformance to Street Standards and Accepted per Chapter 1.2
 Data Accepted
 Acceptance Comments

100% PLAN
 100% PROFILE
 100% VERTICAL CURB
 100% HORIZONTAL CURB

SHEET C3.01
 JOB NUMBER 13-1166

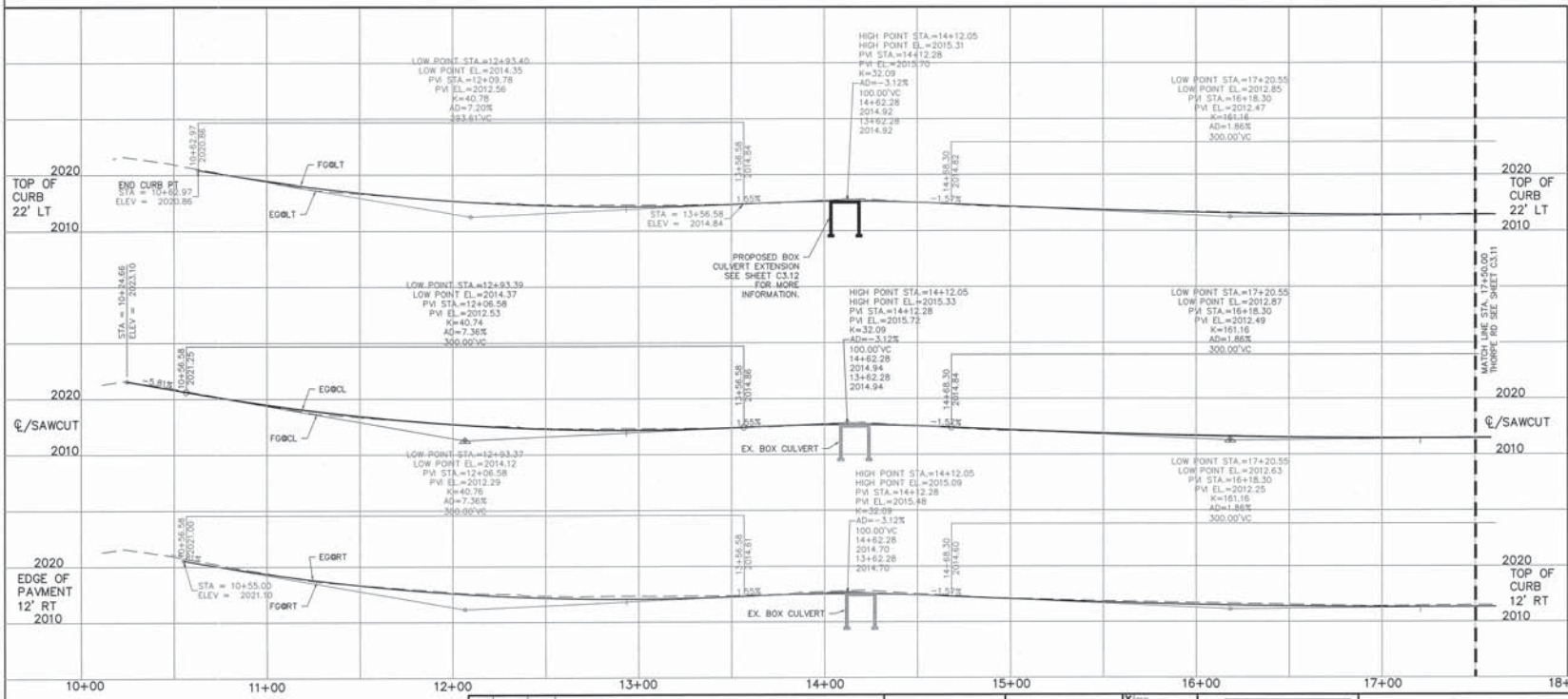
SE 1/4, SEC. 33, T. 25N., R. 44E., W.M.
 SW 1/4, SEC. 34, T. 25N., R. 44E., W.M.
 NE 1/4, SEC. 4, T. 24N., R. 44E., W.M.



CONSTRUCTION NOTES

- 1 SAWCUT AND REMOVE EXISTING ASPHALT. TACK COAT AND MATCH TO EXISTING ASPHALT WITH NEW ASPHALT PER INLAND NORTHWEST PAVEMENT CUT POLICY AND CITY OF SPOKANE VALLEY STANDARDS AND SPECIFICATIONS.
- 2 CONSTRUCT ROAD WIDENING PER TYPICAL WIDENING SECTION. SEE DETAIL 4 SHEET C0.3.
- 3 PROVIDE AND INSTALL TYPE B CURB AND GUTTER PER CITY OF SPOKANE VALLEY STANDARD PLAN R-102.
- 4 PROVIDE AND INSTALL 5' WIDE CONCRETE SIDEWALK PER CITY OF SPOKANE VALLEY STANDARD PLAN S-110. SEE LOCATION TABLE, SHEET C3.11.
- 5 PROVIDE AND INSTALL 4' WIDE, TYPE 1 CURB INLET PER CITY OF SPOKANE VALLEY STANDARD PLAN S-110. SEE LOCATION TABLE, SHEET C3.11.
- 6 CONSTRUCT ROADSIDE SHALE PER CITY OF SPOKANE VALLEY STANDARD PLAN S-130. SEE DETAIL A ON SHEET C0.3.
- 7 PROVIDE AND INSTALL COMMERCIAL DRIVEWAY PER SPOKANE VALLEY STANDARD PLAN R-112. SEE PLAN FOR WIDTH.
- 8 REMOVE EXISTING SIDEWALK, CURB, AND ASPHALT.
- 9 PROVIDE AND INSTALL PEDESTRIAN RAMP PER CITY OF SPOKANE VALLEY STANDARD PLAN R-107.
- 10 CONNECT TO EXISTING SIDEWALK.
- 11 RELOCATE EXISTING UTILITIES TO 2' MINIMUM BEHIND PROPOSED CURB PER STANDARD PLAN U-101. CONTRACTOR TO COORDINATE WITH APPROPRIATE AGENCY PRIOR TO RELOCATION.
- 12 REMOVE EXISTING ASPHALT.
- 13 EXISTING SIGN TO BE RELOCATED TO MAINTAIN 2' OF CLEARANCE FROM BACK OF CURB PER CITY OF SPOKANE VALLEY STANDARDS AND SPECIFICATIONS.
- 14 EXTEND BOX CULVERT. SEE DETAILS ON SHEET C3.12.
- 15 SAWCUT AND TACK COAT TO MATCH EXISTING ASPHALT PER CITY OF SPOKANE VALLEY STANDARDS AND SPECIFICATIONS.
- 16 CONSTRUCT V-DITCH. SEE DETAIL 4, SHEET C0.3. MAINTAIN POSITIVE FLOW TO CULVERT.
- 17 PROVIDE AND INSTALL CATCH BASIN AND INFILTRATION GALLERY PER CITY OF SPOKANE VALLEY STANDARD PLAN S-112. SEE DETAILS 3 AND 4 ON SHEET C3.12 FOR INFILTRATION GALLERY INSTALLATION. SEE PLAN VIEW FOR RM ELEVATIONS.
- 18 PROVIDE AND INSTALL CHECK DAM. SEE DETAIL B ON SHEET C0.3 FOR DETAILS.
- 19 PROVIDE AND INSTALL DRIVEWAY PER SPOKANE VALLEY STANDARD PLAN R-110. SEE PLAN FOR WIDTH.
- 20 RELOCATE EXISTING MAILBOX. CONTRACTOR TO COORDINATE WITH HOMEOWNER REGARDING RELOCATION.
- 21 RELOCATE FIRE HYDRANT PER CITY OF SPOKANE VALLEY STANDARDS AND SPECIFICATIONS.

SEE SHEET C3.11 FOR CURB INLET LOCATIONS



NO.	DATE	BY	REVISIONS
3	06/22/20	JAN	REVISED PLANS
2	06/14/18	JPP	REVISED PLANS
1	06-12-18	JPP	ORIGINAL PREPARATION

DATUM: NAVD - 88
 TBM 6.5 OF THE SOUTH PONGERGA SENIOR PROJECT WITH AN ELEVATION OF 2026.87 (NAVD8) = 2003.87 (NAVD08) WAS USED FOR THE VERTICAL DATUM FOR THIS MAP.

SCALE:
 HORIZONTAL: 1"=30'
 VERTICAL: 1"=10'

PROJ #: 13-1166
DATE: 06/23/20
DRAWN: JPP
REVIEWED: TRW

WCE
 WHEELER CONSULTING ENGINEERS
 208 NORTH SULLIVAN ROAD
 SPOKANE VALLEY, WA 99216
 PH: 509-893-0017 FAX: 509-825-0227

SPOKANE VALLEY PAINTED HILLS PRD THORPE ROAD PLAN AND PROFILE (1) DISHMAN-MICA RD. SPOKANE VALLEY, WA

PLANS NOT APPROVED BY AGENCY

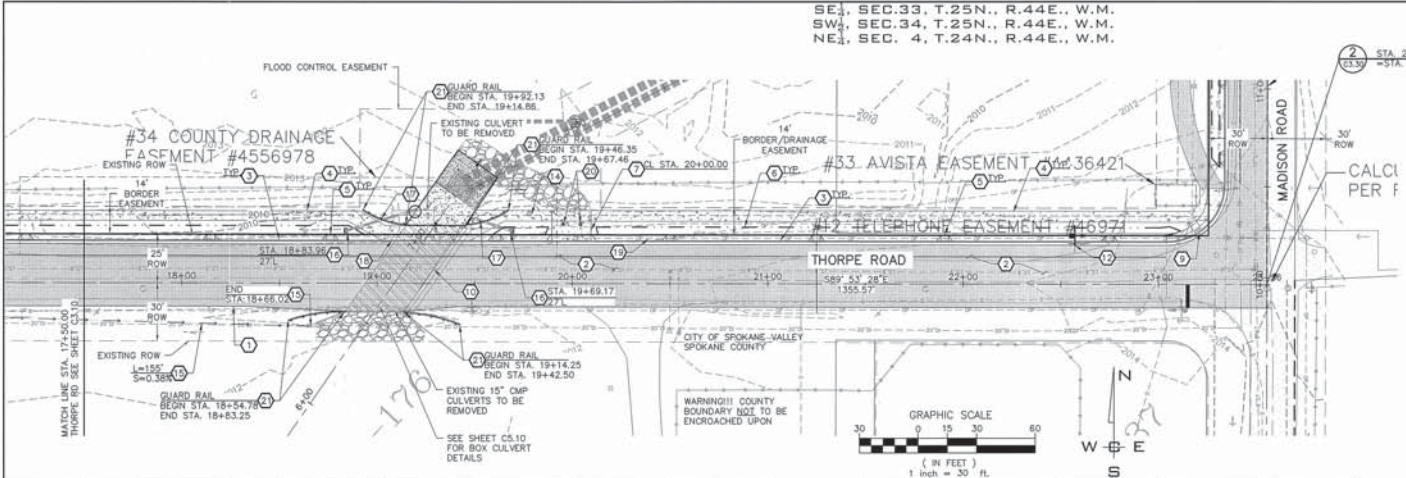
City of Spokane Valley
 Project/Permit No.: SUB-2015-0001 (Subdivision) FPD-2015-0007 (Flood Plain Development) EGR-2015-0006 (Engineered Grading)
 City of Spokane Valley Development Engineering

Revised: Not Reviewed
 Reviewed for Conformance to Street Standards and Accepted per Chapter 1.2
 Date Accepted: _____
 Acceptance Comments: _____

SHEET C3.10
 JOB NUMBER 13-1166

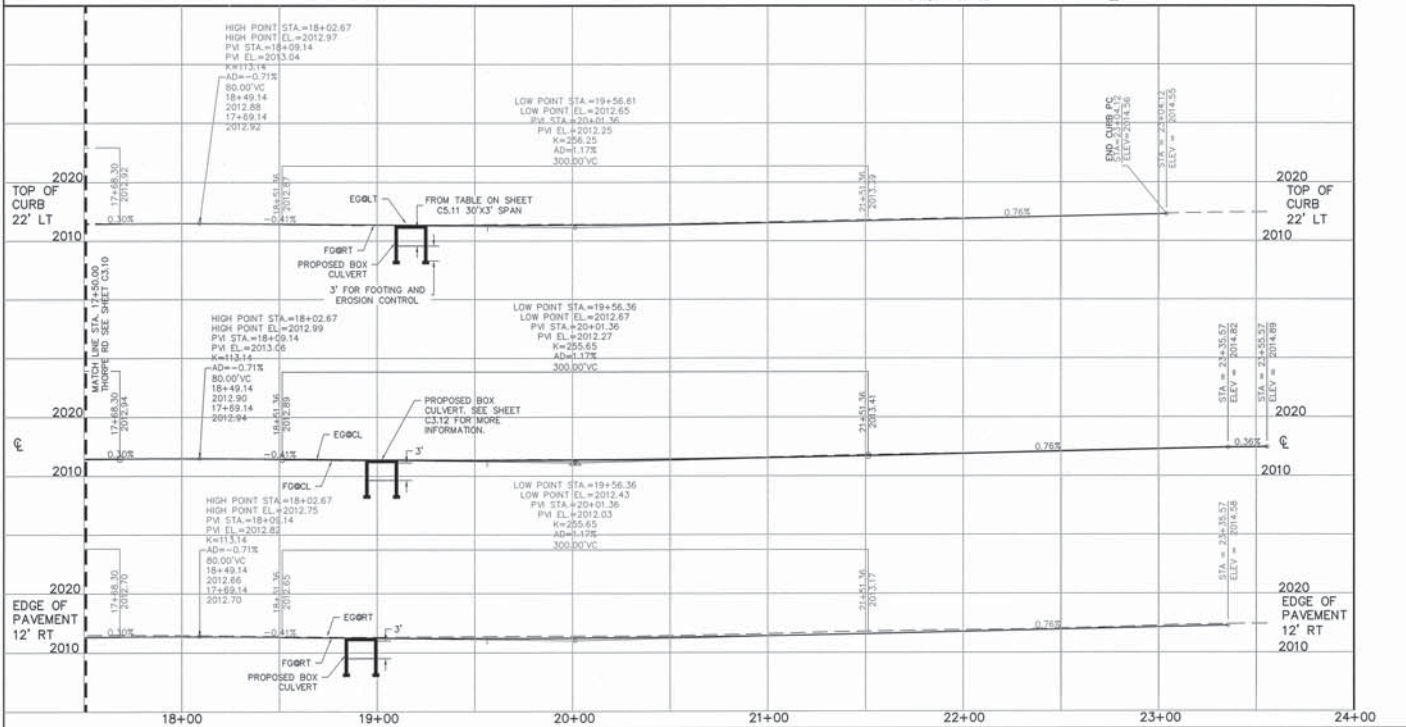
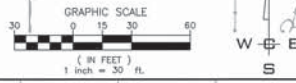
SE₄, SEC. 33, T.25N., R.44E., W.M.
 SW₄, SEC. 34, T.25N., R.44E., W.M.
 NE₄, SEC. 4, T.24N., R.44E., W.M.

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



- DRYWELL DECOMMISSIONING NOTES**
- DECOMMISSIONING DRYWELLS SHALL COMPLY WITH WAC 173-218-120 AND WSDOT SPEC 7-05.3(2) ABANDON EXISTING MANHOLES. THE FOLLOWING IS REQUIRED:
 - REMOVE ANY STRUCTURE WITHIN THREE FEET OF THE LAND SURFACE.
 - BACKFILL UP TO THREE FEET BELOW THE LAND SURFACE WITH MATERIAL THAT IS UNCONTAMINATED, CHEMICALLY AND BIOLOGICALLY INERT, AND THAT DRAINS EQUAL TO OR MORE SLOWLY THAN THE NATIVE MATERIAL SURROUNDING THE UIC WELL, AND
 - FILL THE REMAINING THREE FEET DIRECTLY BELOW THE LAND SURFACE WITH NATIVE SOIL OR OTHER STRUCTURALLY SOUND MATERIAL COMMON WITH CURRENT ENGINEERING PRACTICES.

- CONSTRUCTION NOTES**
- SAWCUT AND REMOVE EXISTING ASPHALT. TACK COAT AND MATCH TO EXISTING ASPHALT WITH NEW ASPHALT PER CITY OF SPOKANE VALLEY STANDARDS AND PER INLAND NORTHWEST PVMOT CUL POLICY SPECIFICATIONS.
 - CONSTRUCT ROAD PER CROSS SECTION, SEE DETAIL 4 ON SHEET C0.3.
 - PROVIDE AND INSTALL TYPE B CURB AND GUTTER PER CITY OF SPOKANE VALLEY STANDARD PLAN R-102.
 - PROVIDE AND INSTALL 5' WIDE CONCRETE SIDEWALK PER CITY OF SPOKANE VALLEY STANDARD PLAN R-103.
 - PROVIDE AND INSTALL 4' WIDE, TYPE 1 CURB INLET PER CITY OF SPOKANE VALLEY STANDARD PLAN S-110. SEE LOCATION TABLE ON THIS SHEET.
 - CONSTRUCT ROADSIDE SWALE PER CITY OF SPOKANE VALLEY STANDARD PLAN S-130. SEE DETAIL A ON SHEET C0.3.
 - PROVIDE AND INSTALL 20' TYPE II DRIVEWAY WITH SEPARATED SIDEWALK PER SPOKANE VALLEY STANDARD PLAN R-110.
 - RESERVED
 - PROVIDE AND INSTALL PEDESTRIAN RAMP PER CITY OF SPOKANE VALLEY STANDARD PLAN R-107.
 - PROVIDE AND INSTALL BOX CULVERT, SEE SHEET C5.10 FOR DETAILS.
 - RESERVED
 - EXISTING SIGN TO BE RELOCATED TO MAINTAIN 2' OF CLEARANCE FROM BACK OF CURB PER CITY OF SPOKANE VALLEY STANDARDS AND SPECIFICATIONS.
 - PROVIDE AND INSTALL 5.5' WIDE CONCRETE SIDEWALK PER CITY OF SPOKANE VALLEY STANDARD PLAN R-103.
 - EXISTING DRYWELL TO BE DECOMMISSIONED PER CITY OF SPOKANE VALLEY STANDARDS AND SPECIFICATIONS. SEE DRYWELL DECOMMISSIONING NOTES, THIS SHEET.
 - CONSTRUCT V-DITCH, PER TYPICAL CROSS SECTION, SEE SHEET C0.3
 - PROVIDE AND INSTALL TYPE I CATCH BASIN WITH FRAME AND GRATE PER CITY OF SPOKANE VALLEY STANDARD PLAN S-112. SEE NOTE 5, AND PLAN FOR RIM & INVERT ON SHEET C5.20.
 - PROVIDE AND INSTALL 12" CMP PIPE PER CITY SPOKANE VALLEY STANDARDS AND SPECIFICATIONS. SEE SHEET C5.10 AND C5.20 FOR LENGTH AND SLOPE.
 - PROVIDE AND INSTALL 6' WIDE CONCRETE SIDEWALK PER CITY OF SPOKANE VALLEY STANDARD PLAN R-103.
 - RELOCATE EXISTING UTILITIES TO 2' MINIMUM BEHIND PROPOSED CURB PER STANDARD PLAN U-101. CONTRACTOR TO COORDINATE WITH APPROPRIATE AGENCY PRIOR TO RELOCATION.
 - PROVIDE AND INSTALL BOLLARD TYPE 3 PER WSDOT STANDARD PLAN RD-14, SEE SHEET C3.02.
 - PROVIDE AND INSTALL BEAM TYPE 31 GUARDRAIL - 45 MPH AND BELOW PER WSDOT STANDARD PLAN C-22.45-04 WITH TYPE 31 GUARDRAIL AND WOOD BLOCK AND POST PER WSDOT STANDARD PLAN C-18.



ALIGNMENT	STATION	OFFSET
THORPE RD	10+72	21.0' LT
THORPE RD	11+16	21.0' LT
THORPE RD	11+99	21.0' LT
THORPE RD	12+93	21.0' LT
THORPE RD	13+56	21.0' LT
THORPE RD	15+20	21.0' LT
THORPE RD	16+20	21.0' LT
THORPE RD	17+20	21.0' LT
THORPE RD	18+15	21.0' LT
THORPE RD	18+76	21.0' LT
THORPE RD	19+56	21.0' LT
THORPE RD	20+50	21.0' LT
THORPE RD	21+25	21.0' LT
THORPE RD	21+91	21.0' LT
THORPE RD	22+75	21.0' LT

City of Spokane Valley
 Project/Permit No.:
 SUB-2015-0001
 (Subdivision)
 FPD-2015-0007
 (Flood Plain Development)
 EGR-2015-0008
 (Engineering Grading)

City of Spokane Valley
 Department
 Engineering

Revised: _____
 New Street Width - Public: _____

Not Reviewed
 Reviewed for Conformance to Street Standards and Accepted per Chapter 1.2
 Date Accepted: _____
 Acceptance Comments: _____

PLANS NOT APPROVED BY AGENCY

☛ DATUM: NAVD - 88
 TBM 5-4 OF THE SOUTH PONDEROSA SEWER PROJECT
 WITH AN ELEVATION OF 2005.87 (NAVD09) = 2009.67
 (NAVD08) WAS USED FOR THE VERTICAL DATUM FOR THIS
 MAP.

NO.	DATE	BY	REVISIONS
3	06/22/20	JMH	REVISED PLANS
2	08/14/18	JPP	REVISED PLANS
1	08/12/18	JPP	ORIGINAL PREPARATION

SCALE:
 HORIZONTAL: 1"=30'
 VERTICAL: 1"=10'

PROJ #: 13-1168
 DATE: 06/23/20
 DRAWN: JPP
 REVIEWED: TRW



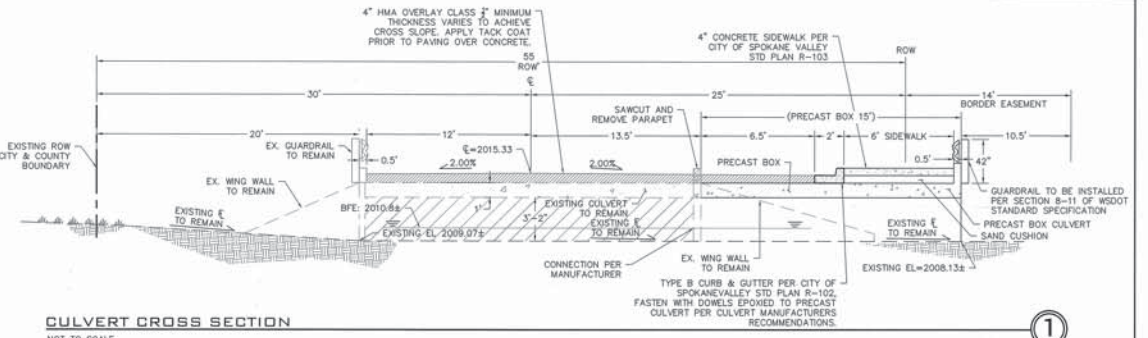
**SPOKANE VALLEY PAINTED HILLS PRD
 THORPE ROAD PLAN AND PROFILE (2)**
 DISHMAN-MICA RD.
 SPOKANE VALLEY, WA

SHEET C3.11
 JOB NUMBER 13-1166

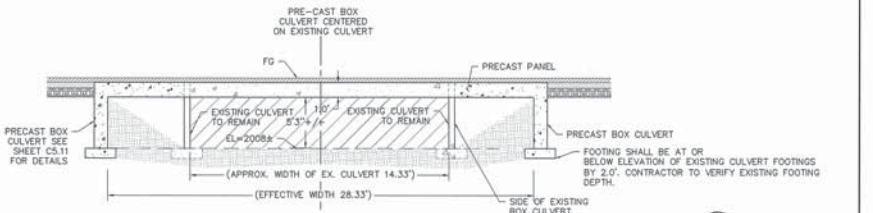
SE $\frac{1}{4}$, SEC. 33, T. 25N., R. 44E., W.M.
 SW $\frac{1}{4}$, SEC. 34, T. 25N., R. 44E., W.M.
 NE $\frac{1}{4}$, SEC. 4, T. 24N., R. 44E., W.M.

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

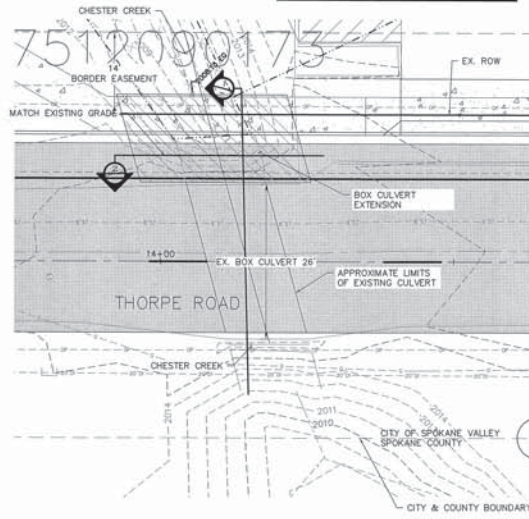
**POST BOX CULVERT
 INSTALLATION**
 PLACE PROTECTIVE
 MATERIAL OVER BOX
 CULVERT UNTIL FINAL PAVE.



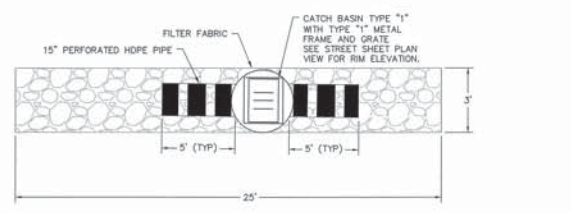
CULVERT CROSS SECTION
 NOT TO SCALE



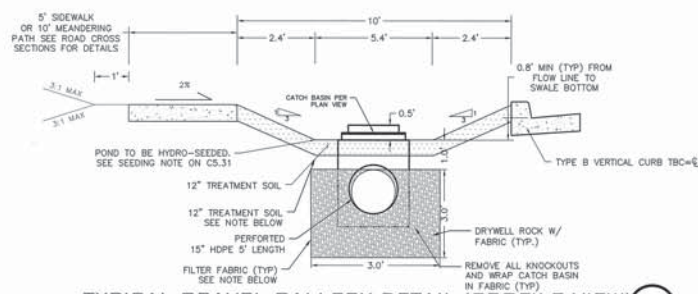
CULVERT CROSS SECTION
 NOT TO SCALE



CHESTER CREEK CULVERT WIDENING
 SCALE: 1"=10'



TYPICAL GRAVEL GALLERY DETAIL (PLAN VIEW)



TYPICAL GRAVEL GALLERY DETAIL (PROFILE VIEW)

TREATMENT SOIL NOTE:
 12" OF TREATMENT SOIL CONSISTING OF A THOROUGHLY BLENDED MIX OF 50% COMPOST WITH 50% NATIVE SOIL. SWALE BOTTOM TO BE HYDROSEED OR SOODED.

City of Spokane Valley
 Project/Parcel No.:
 SUB-2015-0001
 (Subdivision)
 PRD-2015-0007
 (Flood Plain Development)
 EGR-2015-0006
 (Engineered Grading)
 City of Spokane Valley
 Development Engineering
 Review:
 Max Street Miles - Public _____
 Not Reviewed
 Reviewed for Conformance to
 Street Standards and
 Accepted per Chapter 1.2
 Date Approved _____
 Acceptance Comments _____

**PLANS
 NOT APPROVED
 BY AGENCY**

DATUM: NAVD - 88
 TBM 5-4 OF THE SOUTH PONDEROSA SEWER PROJECT
 WITH AN ELEVATION OF 2005.87 (NAV028) = 2009.87
 (NAVD88) WAS USED FOR THE VERTICAL DATUM FOR THIS
 MAP.

NO.	DATE	BY	REVISIONS
3	08-22-20	JAM	REVISED PLANS
2	08-14-18	JPP	REVISED PLANS
1	08-12-18	JPP	ORIGINAL PREPARATION

SCALE:	PROJ #: 13-1168
HORIZONTAL:	DATE: 08/22/20
AS SHOWN	DRAWN: JPP
VERTICAL:	REVIEWED: TRW
N/A	

<input checked="" type="checkbox"/> SOIL
<input checked="" type="checkbox"/> STRUCTURAL
<input checked="" type="checkbox"/> SURVEYING
<input checked="" type="checkbox"/> TRAFFIC
<input checked="" type="checkbox"/> PLANNING
<input checked="" type="checkbox"/> LANDSCAPE
<input checked="" type="checkbox"/> OTHER

IWCE
 WHIPPLE CONSULTING ENGINEERS
 2025 NORTH SULLIVAN ROAD
 SPOKANE VALLEY, WA 99216
 PH 509-838-1177 FAX 509-838-0227

**SPOKANE VALLEY PAINTED HILLS PRD
 CHESTER CREEK CULVERT WIDENING**
**DISHMAN-MICA RD.
 SPOKANE VALLEY, WA**

**SHEET
 C3.12**
 JOB NUMBER
 13-1166

SE 1/4, SEC. 33, T. 25 N., R. 44 E., W. M.
 SW 1/4, SEC. 34, T. 25 N., R. 44 E., W. M.
 NE 1/4, SEC. 4, T. 24 N., R. 44 E., W. M.

CONSTRUCTION NOTES

- 1 SAWCUT AT CENTERLINE AND REMOVE EXISTING ASPHALT. TACK COAT AND MATCH TO EXISTING ASPHALT WITH NEW ASPHALT PER CITY OF SPOKANE VALLEY SPECIFICATIONS AND PER INLAND NORTHWEST PAVT CUT POLICY SPECIFICATIONS.
- 2 CONSTRUCT ROAD WIDENING PER TYPICAL WIDENING SECTION, DETAIL 5 SHEET C0.3.
- 3 PROVIDE AND INSTALL TYPE B CURB AND GUTTER PER CITY OF SPOKANE VALLEY STANDARD PLAN R-102.
- 4 PROVIDE AND INSTALL 10' ASPHALT PATHWAY. PAVEMENT SECTION TO BE 2" OF 1/2" HMA ON 4" CSTC.
- 5 PROVIDE AND INSTALL 4' WIDE, TYPE I CURB DROP PER CITY OF SPOKANE VALLEY STANDARD PLAN S-110. SEE THIS SHEET FOR LOCATION TABLE.
- 6 CONSTRUCT ROADSIDE SWALE PER CITY OF SPOKANE VALLEY STANDARD PLAN S-130 SEE TYPICAL SWALE DETAIL A, SHEET C0.03.
- 7 RESERVED.
- 8 PROVIDE AND INSTALL STREET MONUMENT AT CENTERLINE INTERSECTIONS PER CITY OF SPOKANE VALLEY STANDARD R-145.
- 9 RELOCATE EXISTING UTILITIES TO 2' BEHIND PROPOSED CURB PER STANDARD PLAN U-101. UTILITIES SHALL NOT BE WITHIN SIDEWALK. CONTRACTOR TO COORDINATE WITH APPROPRIATE AGENCY PRIOR TO RELOCATION.
- 10 PROVIDE AND INSTALL PEDESTRIAN RAMP PER CITY OF SPOKANE VALLEY STANDARD PLAN R-107.
- 11 SAWCUT AND REMOVE EXISTING ASPHALT 10' ON EITHER SIDE OF STORM PIPE. TACK COAT AND MATCH TO EXISTING ASPHALT WITH NEW ASPHALT PER CITY OF SPOKANE VALLEY SPECIFICATIONS.
- 12 PROVIDE AND INSTALL 2-48" ADS N-12 TYPE HDPE PIPE. SEE SHEET C5.20 FOR DETAILS.
- 13 REPLACE EXISTING CULVERT AND EXTEND WITH 18" CMP. SEE SHEET C5.22 FOR DETAILS.
- 14 RESERVED.
- 15 INSTALL TYPE III BARRICADE PER CITY OF SPOKANE VALLEY STANDARD PLAN R-142.
- 16 EXISTING MAILBOX TO BE RELOCATED.
- 17 PROVIDE AND INSTALL TYPE I CATCH BASH WITH FRAME AND GRATE PER CITY OF SPOKANE VALLEY STANDARD PLAN S-112. SEE SHEET C5.21 FOR DETAILS.
- 18 PROVIDE AND INSTALL L.E.D. STREET LIGHT (EQUIVALENT OF A 300W HIGH PRESSURE SODIUM LIGHT) LOCATED ON WOODEN POLE COORDINATE FINAL LOCATION AND POWER SUPPLY WITH INLAND POWER.
- 19 PATH TO SIDEWALK TRANSITION. SEE DETAIL A ON SHEET C3.30 FOR CONNECTION DETAILS.

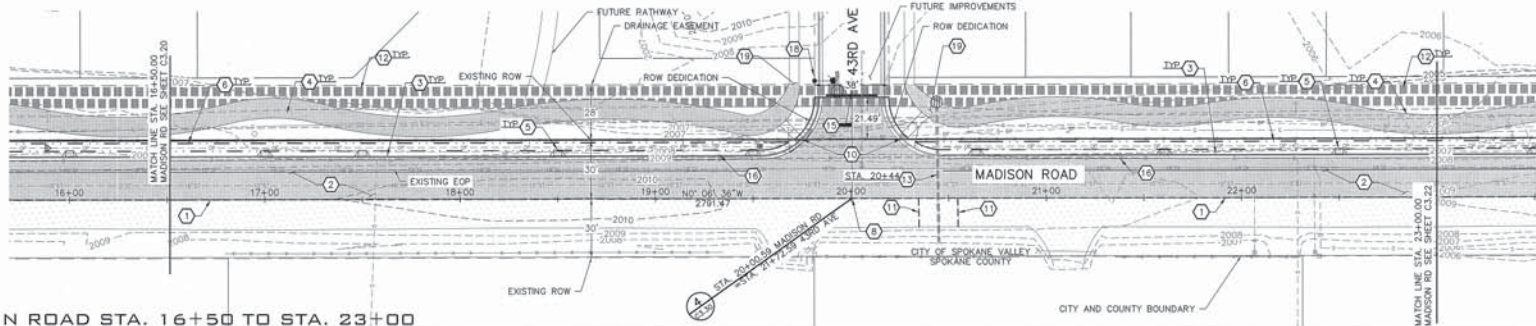
SEE SHEET C7.0-C7.2 FOR WATER PLAN.

CURB INLET CL LOCATION		
ALIGNMENT	STATION	OFFSET
MADISON RD	17+00	21.5' LT
MADISON RD	17+50	21.5' LT
MADISON RD	18+50	21.5' LT
MADISON RD	19+50	21.5' LT
MADISON RD	20+64	21.5' LT
MADISON RD	21+60	21.5' LT
MADISON RD	22+50	21.5' LT

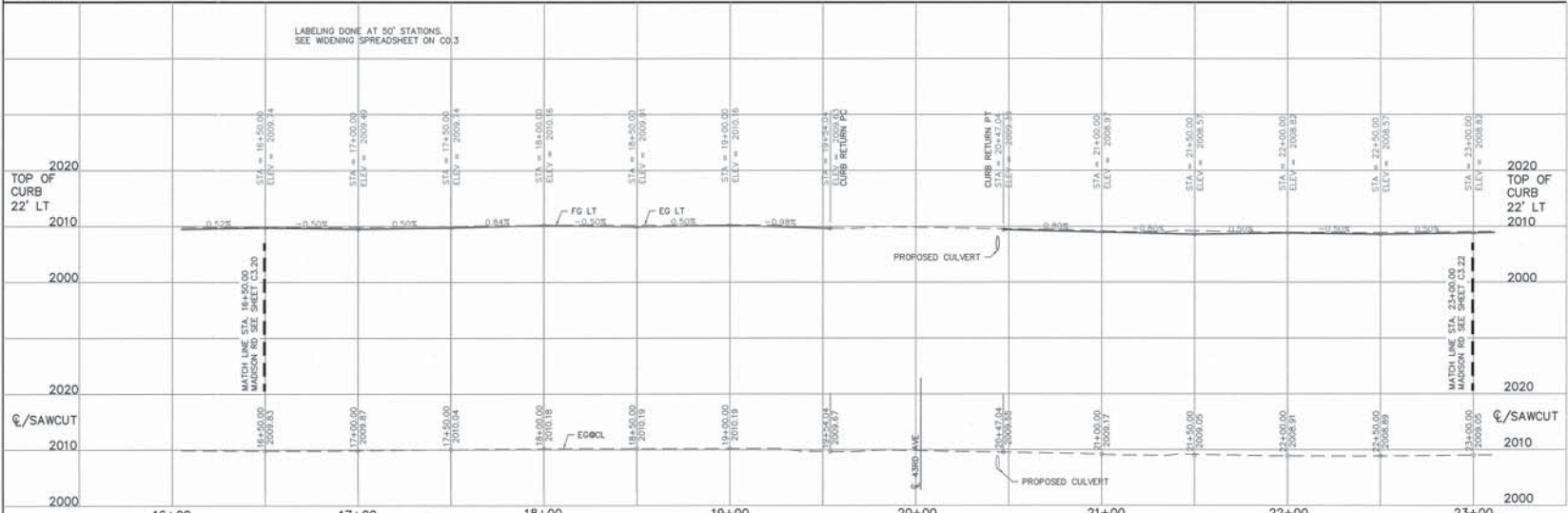
UNDERGROUND SERVICE ALERT
 ONE-CALL NUMBER
811
 CALL TWO BUSINESS DAYS BEFORE YOU DIG

GRAPHIC SCALE
 0 15 30 60
 (IN FEET)
 1 inch = 30 ft.

North Arrow



MADISON ROAD STA. 16+50 TO STA. 23+00
 SCALE: 1"=30'



MADISON RD STA. 16+50 TO STA. 23+00

SCALE: HORIZONTAL: 1"=30'
 VERTICAL: 1"=10'

PROJ #: 13-1168
 DATE: 06/23/20
 DRAWN: TEW
 REVIEWED: TRW

CONSTRUCTION: STRUCTURAL, SURVEYING, TIMBER, PLANNING, LANDSCAPE, OTHER

WCE
 WHIPPLE CONSULTING ENGINEERS
 3203 NORTH SULLY AVENUE
 SPOKANE VALLEY, WA 99215
 PH: 509-835-2177 FAX: 509-835-2027

NO.	DATE	BY	REVISIONS
3	06/22/20	JMH	REVISED PLANS
2	06/14/18	JPP	REVISED PLANS
1	08/12/16	JPP	ORIGINAL PREPARATION

PLANS NOT APPROVED BY AGENCY

City of Spokane Valley
 Project/Permit No.: SUB-2015-0001 (Subdivision) FPD-2015-0007 (Flood Plain Development) EGR-2015-0006 (Engineered Grading)

City of Spokane Valley
 Development Engineering

Reviewed:
 How: Street Width - Public

Not Reviewed
 Reviewed for Conformance to Street Standards and Accepted per Chapter 1.2
 Date Accepted: _____
 Acceptance Comments: _____

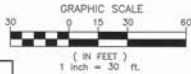
WCE
 WHIPPLE CONSULTING ENGINEERS
 3203 NORTH SULLY AVENUE
 SPOKANE VALLEY, WA 99215
 PH: 509-835-2177 FAX: 509-835-2027

SHEET C3.21
 JOB NUMBER 13-1166

SE 1/4, SEC. 33, T. 25N., R. 44E., W.M.
 SW 1/4, SEC. 34, T. 25N., R. 44E., W.M.
 NE 1/4, SEC. 4, T. 24N., R. 44E., W.M.

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

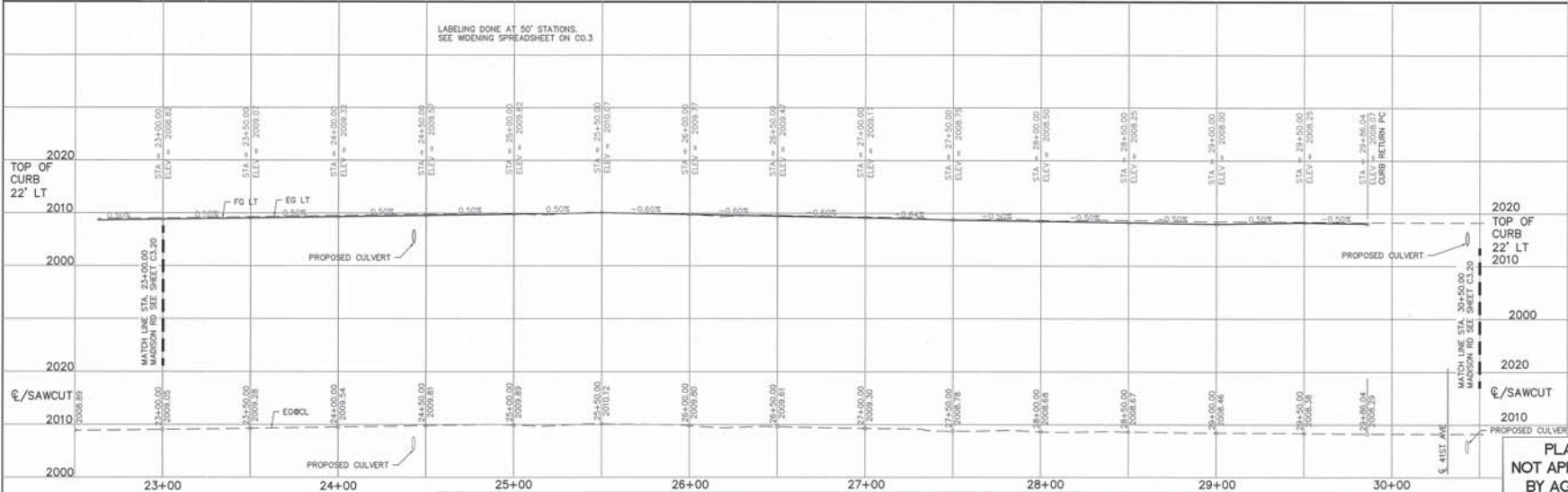
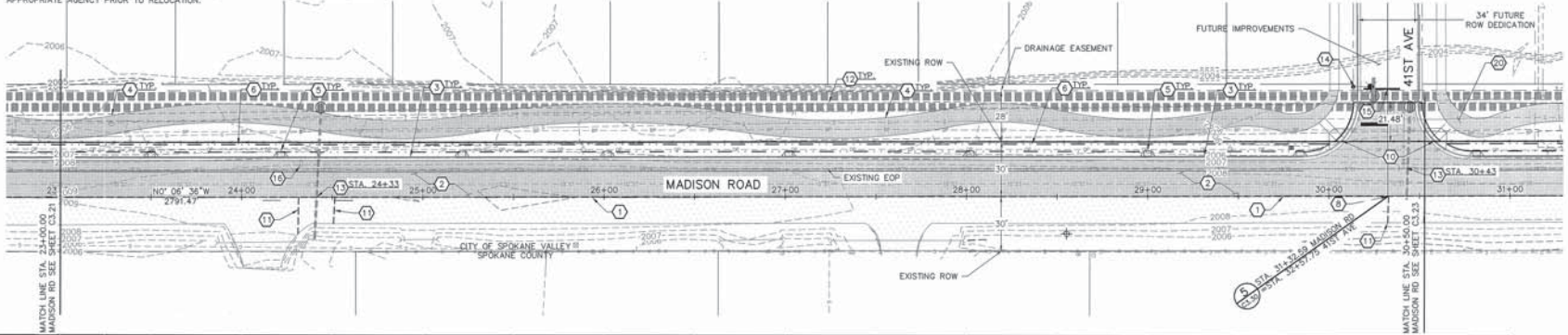
SEE SHEET C7.0-C7.2
 FOR WATER PLAN.



CURB INLET CL LOCATION		
ALIGNMENT	STATION	OFFSET
MADISON RD	23+50	21.5' LT
MADISON RD	24+22	21.5' LT
MADISON RD	25+22	21.5' LT
MADISON RD	26+02	21.5' LT
MADISON RD	27+02	21.5' LT
MADISON RD	28+02	21.5' LT
MADISON RD	29+00	21.5' LT
MADISON RD	29+84	21.5' LT

CONSTRUCTION NOTES

- 1 SAWCUT AT CENTERLINE AND REMOVE EXISTING ASPHALT. TACK COAT AND MATCH TO EXISTING ASPHALT WITH NEW ASPHALT PER CITY OF SPOKANE VALLEY SPECIFICATIONS AND PER INLAND NORTHWEST PAVT CUT POLICY SPECIFICATIONS.
- 2 CONSTRUCT ROAD WIDENING PER TYPICAL WIDENING SECTION, DETAIL 5 SHEET C0.3.
- 3 PROVIDE AND INSTALL TYPE B CURB AND GUTTER PER CITY OF SPOKANE VALLEY STANDARD PLAN R-102.
- 4 PROVIDE AND INSTALL 10' ASPHALT PATHWAY. PAVEMENT SECTION TO BE 2" OF 1/2" HMA ON 4" CSTC.
- 5 PROVIDE AND INSTALL 4" WIDE, TYPE I CURB DROP PER CITY OF SPOKANE VALLEY STANDARD PLAN S-110. SEE THIS SHEET FOR LOCATION TABLE.
- 6 CONSTRUCT ROADSIDE SWALE PER CITY OF SPOKANE VALLEY STANDARD PLAN S-130 SEE TYPICAL SWALE DETAIL A, SHEET C0.3.
- 7 RESERVED.
- 8 PROVIDE AND INSTALL STREET MONUMENT AT CENTERLINE INTERSECTIONS PER CITY OF SPOKANE VALLEY STANDARD R-145.
- 9 RELOCATE EXISTING UTILITIES TO 2' MINIMUM BEHIND PROPOSED CURB PER STANDARD PLAN U-101. UTILITIES SHALL NOT BE WITHIN SIDEWALK. CONTRACTOR TO COORDINATE WITH APPROPRIATE AGENCY PRIOR TO RELOCATION.
- 10 PROVIDE AND INSTALL PEDESTRIAN RAMP PER CITY OF SPOKANE VALLEY STANDARD PLAN R-107.
- 11 SAWCUT AND REMOVE EXISTING ASPHALT 10' ON EITHER SIDE OF STORM PIPE. TACK COAT AND MATCH TO EXISTING ASPHALT WITH NEW ASPHALT PER CITY OF SPOKANE VALLEY SPECIFICATIONS.
- 12 PROVIDE AND INSTALL 2-48" ADS N-12 TYPE HDPE PIPE. SEE SHEET C5.20 FOR DETAILS.
- 13 REPLACE EXISTING CULVERT AND EXTEND WITH 18" CMP. SEE SHEET C5.22 FOR DETAILS.
- 14 PROVIDE AND INSTALL L.E.D. STREET LIGHT (EQUIVARIANT OF A 300W HIGH PRESSURE SODIUM LIGHT) LOCATED ON WOODEN POLE COORDINATE FINAL LOCATION AND POWER SUPPLY WITH INLAND POWER.
- 15 INSTALL TYPE III BARRICADE PER CITY OF SPOKANE VALLEY STANDARD PLAN R-142.
- 16 EXISTING MAILBOX TO BE RELOCATED.
- 17 PROVIDE AND INSTALL TYPE I CATCH BASIN WITH FRAME AND GRATE PER CITY OF SPOKANE VALLEY STANDARD PLAN S-112. SEE SHEET C5.21 FOR DETAILS.
- 18 RESERVED.
- 19 RESERVED.
- 20 RESERVED.
- 21 PATH TO SIDEWALK TRANSITION. SEE DETAIL A ON SHEET C3.30 FOR CONNECTION DETAILS.



NO. DATE BY REVISIONS

3	08-22-20	JMH	REVISED PLANS
2	06-14-18	JPP	REVISED PLANS
1	08-12-16	JPP	ORIGINAL PREPARATION

SCALE:
 HORIZONTAL: 1"=80'
 VERTICAL: 1"=10'

PROJ #: 13-1166
 DATE: 06/23/20
 DRAWN: TEV
 REVIEWED: TRW



**SPOKANE VALLEY PAINTED HILLS PRD
 MADISON ROAD PLAN AND PROFILE (3)**
**DISHMAN-MICA RD.
 SPOKANE VALLEY, WA**

City of Spokane Valley
 Project/Permit No.:
 SUB-2018-0001 (Subdivision)
 FPD-2018-0007 (Flood Plain Development)
 EGR-2018-0006 (Engineering Grading)

City of Spokane Valley
 Development Engineering

Reviewer:
 How Street: Public Private

Not Reviewed
 Reviewed for Conformance to Street Standards and Accepted per Chapter 1.2
 Date Accepted:
 Acceptance Comments:

PLANS NOT APPROVED BY AGENCY

SHEET C3.22
 JOB NUMBER 13-1166

DATUM: NAVD - 88
 TBM 5-4 OF THE SOUTH PONDEROSA SEWER PROJECT WITH AN ELEVATION OF 2008.87 (NAVD29) ~ 2008.87 (NAVD83) WAS USED FOR THE VERTICAL DATUM FOR THIS MAP.

CONSTRUCTION NOTES

- 1 SAWCUT AT CENTERLINE AND REMOVE EXISTING ASPHALT. TACK COAT AND MATCH TO EXISTING ASPHALT WITH NEW ASPHALT PER CITY OF SPOKANE VALLEY STANDARDS AND PER INLAND NORTHWEST PAVT CUT POLICY SPECIFICATIONS.
- 2 CONSTRUCT ROAD WIDENING PER TYPICAL WIDENING SECTION, DETAIL 5 SHEET C0.3.
- 3 PROVIDE AND INSTALL TYPE B CURB AND GUTTER PER CITY OF SPOKANE VALLEY STANDARD PLAN R-102.
- 4 PROVIDE AND INSTALL 10' ASPHALT PATHWAY. PAVEMENT SECTION TO BE 2" OF 1/2" HMA ON 4" CSTC.
- 5 PROVIDE AND INSTALL 4" WIDE, TYPE I CURB DROP PER CITY OF SPOKANE VALLEY STANDARD PLAN S-110. SEE THIS SHEET FOR LOCATION TABLE.
- 6 CONSTRUCT ROADSIDE SWALE PER CITY OF SPOKANE VALLEY STANDARD PLAN S-130 SEE TYPICAL SWALE DETAIL A, SHEET C0.03.
- 7 PROVIDE AND INSTALL 6" TAPER FROM FACE OF PROPOSED CURB TO EXISTING EDGE OF ASPHALT PER TAPER CALCULATIONS, THIS SHEET.
- 8 PROVIDE AND INSTALL STREET MONUMENT AT CENTERLINE INTERSECTIONS PER CITY OF SPOKANE VALLEY STANDARD R-145.
- 9 RELOCATE EXISTING UTILITIES TO 2' BEHIND PROPOSED CURB PER STANDARD PLAN U-101. UTILITIES SHALL NOT BE WITHIN SIDEWALK. CONTRACTOR TO COORDINATE WITH APPROPRIATE AGENCY PRIOR TO RELOCATION.

- SE 1/4, SEC. 33, T. 25 N., R. 44 E., W. M.
SW 1/4, SEC. 34, T. 25 N., R. 44 E., W. M.
NE 1/4, SEC. 4, T. 24 N., R. 44 E., W. M.
- 10 PROVIDE AND INSTALL PEDESTRIAN RAMP PER CITY OF SPOKANE VALLEY STANDARD PLAN R-107.
 - 11 SAWCUT AND REMOVE EXISTING ASPHALT 10' ON EITHER SIDE OF STORM PIPE. TACK COAT AND MATCH TO EXISTING ASPHALT WITH NEW ASPHALT PER CITY OF SPOKANE VALLEY SPECIFICATIONS.
 - 12 PROVIDE AND INSTALL 2-48" ADS N-12 TYPE HOPE PIPE. SEE SHEET C5.20 FOR DETAILS.
 - 13 REPLACE EXISTING CULVERT AND EXTEND WITH 18" CMP. SEE SHEET C5.22 FOR DETAILS.
 - 14 PROVIDE AND INSTALL L.E.D. STREET LIGHT (EQUIVARIANT OF A 200W HIGH PRESSURE SODIUM LIGHT) LOCATED ON WOODEN POLE COORDINATE FINAL LOCATION AND POWER SUPPLY WITH INLAND POWER.
 - 15 INSTALL TYPE II BARRICADE PER CITY OF SPOKANE VALLEY STANDARD PLAN R-142.
 - 16 EXISTING MAILBOX TO BE RELOCATED.
 - 17 PROVIDE AND INSTALL TYPE I CATCH BASIN WITH FRAME AND GRATE PER CITY OF SPOKANE VALLEY STANDARD PLAN S-112. SEE SHEET C5.21 FOR DETAILS.
 - 18 PROVIDE AND INSTALL 12" PVC PIPE PER CITY SPOKANE VALLEY STANDARDS AND SPECIFICATIONS. SEE SHEET C5.3 FOR DETAILS.
 - 19 PROVIDE AND INSTALL 15' WIDE TEMPORARY ACCESS ROAD, 6" CSTC ON (95%) COMPACTED SUBGRADE. SEE SHEETS C5.30 & C5.31 FOR MORE INFORMATION.

- SEE SHEETS C7.0-C7.2 FOR WATER PLAN.
- 20 TRANSITION FROM 10' WIDE ASPHALT PATH AND PROVIDE AND INSTALL 5' SIDEWALK PER CITY OF SPOKANE VALLEY STANDARD PLAN R-103. TAPER ASPHALT PATH TO EDGE OF SIDEWALK.
 - 21 CONNECT TO EXISTING SIDEWALK. MATCH EXISTING.
 - 22 PATH TO SIDEWALK TRANSITION. SEE DETAIL A ON SHEET C3.30 FOR CONNECTION DETAILS.
 - 23 PROVIDE AND INSTALL 15' WIDE DRIVEWAY APPROACH PER CITY OF SPOKANE VALLEY STANDARD PLAN R-110. SEE PLAN VIEW FOR LOCATION.

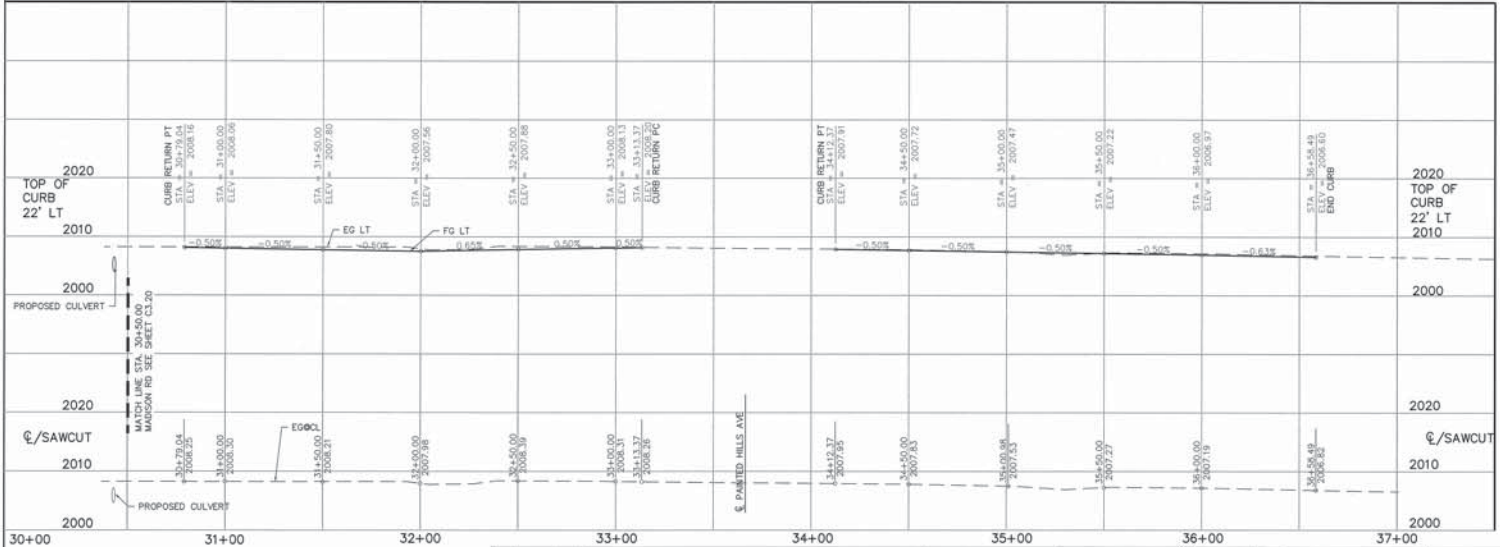
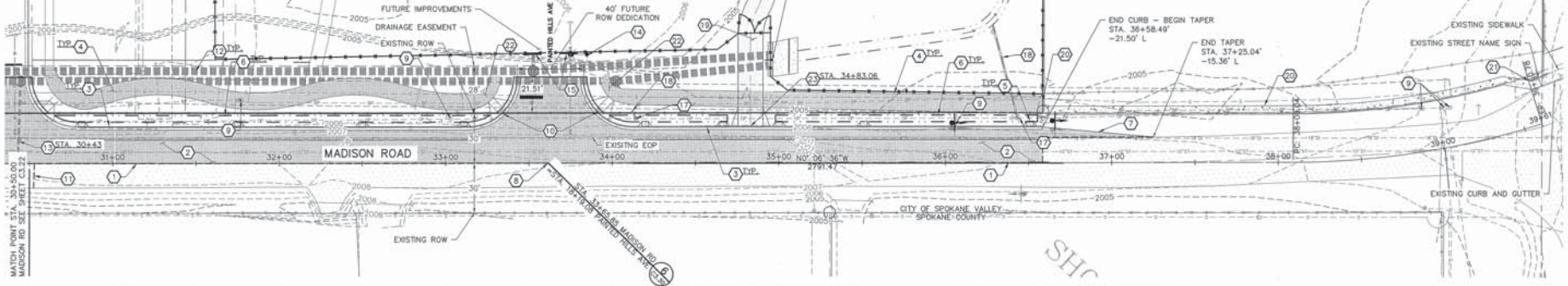
TAPER CALCULATIONS

L=(W/S)²/60
6.25(5')²/60=133' (DEPARTING)
133'/2=67' (ARRIVING)

CURB INLET CL LOCATION		
ALIGNMENT	STATION	OFFSET
MADISON RD	30+81	21.5' LT
MADISON RD	31+75	21.5' LT
MADISON RD	32+50	21.5' LT
MADISON RD	33+10	21.5' LT
MADISON RD	34+20	21.5' LT
MADISON RD	34+47	21.5' LT
MADISON RD	35+00	21.5' LT
MADISON RD	35+51	21.5' LT
MADISON RD	36+51	21.5' LT

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

GRAPHIC SCALE
0 15 30 60
(IN FEET)
1 inch = 30 ft.



NO.	DATE	BY	REVISIONS
3	06-22-20	JMH	REVISED PLANS
2	06-14-18	JPP	REVISED PLANS
1	06-12-16	JPP	ORIGINAL PREPARATION

PLANS NOT APPROVED BY AGENCY

SCALE:
HORIZONTAL: 1"=30'
VERTICAL: 1"=10'

PROJ #: 13-1166
DATE: 06/23/20
DRAWN: TEW
REVIEWED: TRW

WCE
WHIPPLE CONSULTING ENGINEERS
2026 NORTH HILLMAN ROAD
SPOKANE VALLEY, WA 99216
PH: 509-836-9277 FAX: 509-836-9227

**SPOKANE VALLEY PAINTED HILLS PRD
MADISON ROAD PLAN AND PROFILE (4)**
DISHMAN-MICA RD.
SPOKANE VALLEY, WA

SHEET C3.23
JOB NUMBER 13-1166

City of Spokane Valley
Project/Parcel No.:
SUB-2015-0001 (Subdivision)
FPD-2015-0007 (Flood Plain Development)
EGR-2015-0006 (Engineered Grading)

City of Spokane Valley
Development Engineering

Revised: No Street Widening - Public

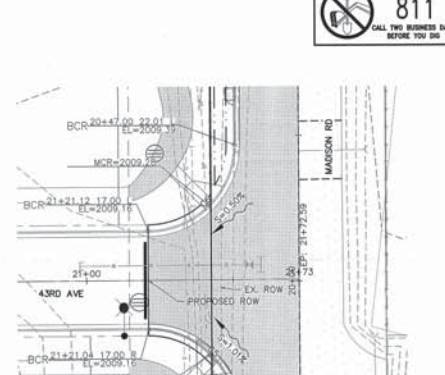
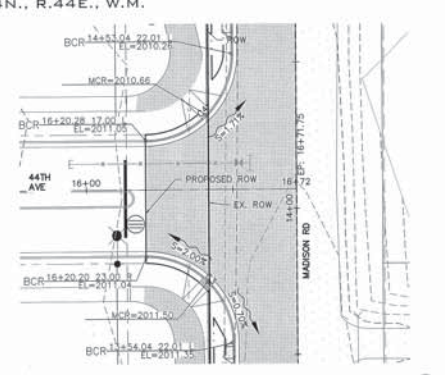
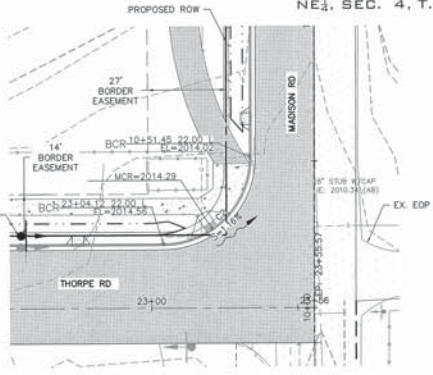
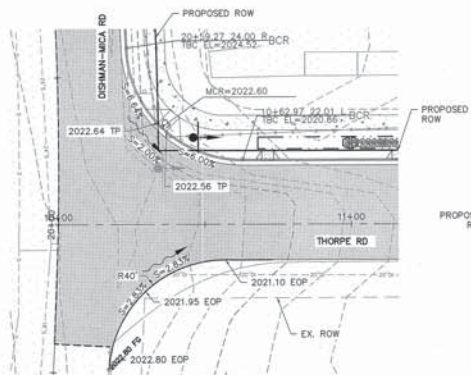
Not Reviewed
 Reviewed for Conformance to Street Standards and Accepted per Chapter 1.2
Date Accepted: _____
Acceptance Comments: _____

PROFESSIONAL ENGINEER
J. J. JENSEN
12/20/2010

DATUM: NAVD - 88
TEM S-4 OF THE SOUTH PONGEROSA SEWER PROJECT
WITH AN ELEVATION OF 2005.87 (NAVOD) - 2009.87
(NAVD) WAS USED FOR THE VERTICAL DATUM FOR THIS MAP.

SE, SEC. 33, T. 25N., R. 44E., W.M.
 SW, SEC. 34, T. 25N., R. 44E., W.M.
 NE, SEC. 4, T. 24N., R. 44E., W.M.

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

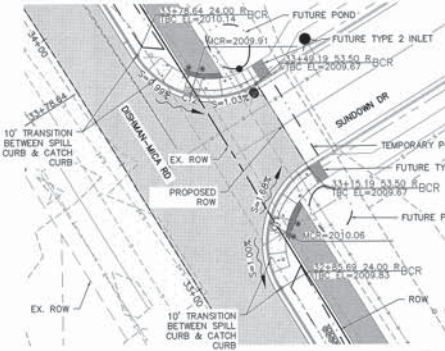
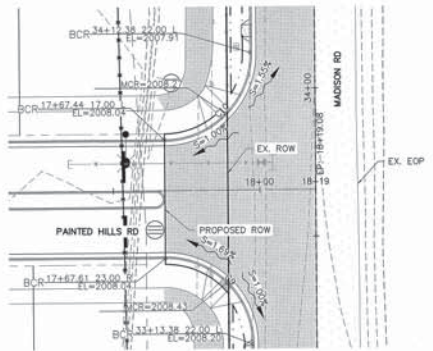
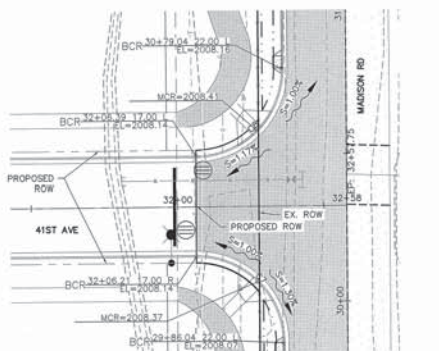


INTERSECTION DETAIL
 DISHMAN-MICA RD AND THORPE RD
 SCALE: 1" = 20'
 STA 20+00 DISHMAN-MICA RD TO STA 10+00 THORPE RD

INTERSECTION DETAIL
 MADISON RD AND THORPE RD
 SCALE: 1" = 20'
 STA 23+55.57 THORPE RD TO STA 10+00.00 MADISON RD

INTERSECTION DETAIL
 MADISON RD AND 44TH AVE
 SCALE: 1" = 20'
 STA 14+08.59 MADISON RD TO STA 16+71.75 44TH AVE

INTERSECTION DETAIL
 MADISON RD AND 43RD AVE
 SCALE: 1" = 20'
 STA 20+00.59 MADISON RD TO STA 21+72.59 43RD AVE

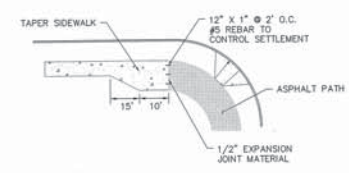


INTERSECTION DETAIL
 MADISON RD AND 41ST AVE
 SCALE: 1" = 20'
 STA 30+32.59 MADISON RD TO STA 32+57.75 41ST AVE

INTERSECTION DETAIL
 MADISON RD AND PAINTED HILLS RD
 SCALE: 1" = 20'
 STA 33+85.86 MADISON RD TO STA 18+19.08 PAINTED HILLS RD

INTERSECTION DETAIL
 DISHMAN-MICA RD AND SUNDOWN DR
 SCALE: 1" = 20'
 STA 33+32.19 DISHMAN-MICA RD TO STA 10+00 SUNDOWN DR

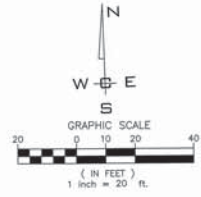
Curve Table (TBC)			
Curve #	Length	Radius	Delta
C1	60.65	39.50	87.98
C2	46.31	29.50	89.95
C3	46.36	29.50	90.05
C4	46.31	29.50	89.95
C5	46.36	29.50	90.05
C6	46.31	29.50	89.95
C7	46.36	29.50	90.05
C8	46.31	29.50	89.95
C9	46.27	29.50	89.87
C10	46.36	29.50	90.03
C11	46.34	29.50	90.00
C12	46.34	29.50	90.00



PATH TO SIDEWALK TRANSITION DETAIL
 NOT TO SCALE

NOTE: ELEVATIONS ARE TAKEN AT TOP OF CURB, ELEVATION OF RAMPS AND MCR WILL BE 6" LOWER THAN ELEVATIONS PROVIDED.

ADDITIONAL NOTE: PLEASE SEE SHEETS C3.06-C3.2X FOR ALL EXISTING AND PROPOSED EASEMENTS.

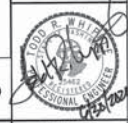


PLANS
 NOT APPROVED
 BY AGENCY

City of Spokane Valley
 Project/Permit No.:
 SUB-2015-0001
 (Subdivision)
 FPD-2016-0007
 (Flood Plain Development)
 EGR-2016-0066
 (Engineered Grating)

City of Spokane Valley
 Development Engineering

For use:
 File Street Idea - Public
 Not Reviewed
 Reviewed for Conformance to Street Standards and Accepted per Chapter 1.2
 Date Accepted: _____
 Acceptance Comments: _____



DATUM: NAVD - 88

TRM 8.5 OF THE SOUTH PONDIPORA SEWER PROJECT WITH AN ELEVATION OF 2065.89 (NAVD) - 2009.67 (NAVD) WAS USED FOR THE VERTICAL DATUM FOR THIS MAP.

NO.	DATE	BY	REVISIONS
3	06-22-20	JMH	REVISED PLANS
2	06-16-18	JPP	REVISED PLANS
1	06-12-16	JPP	ORIGINAL PREPARATION

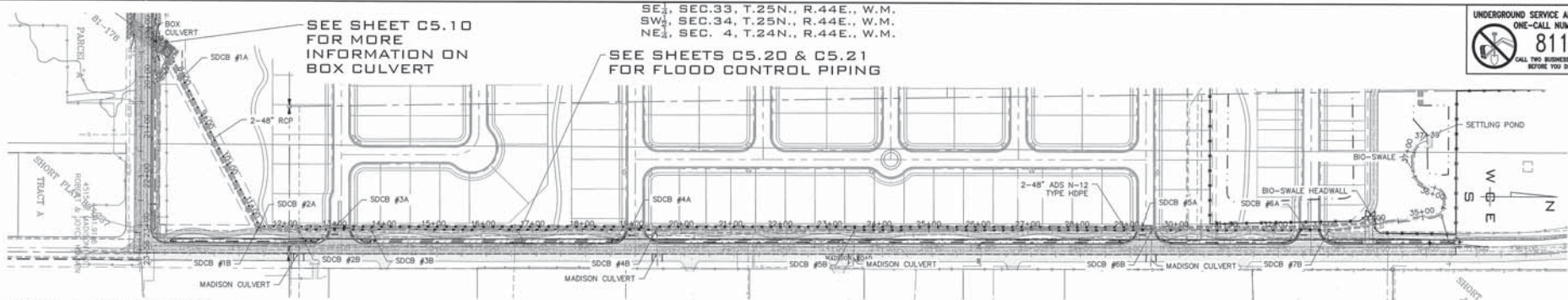
SCALE:
 HORIZONTAL:
 1" = 20'
 VERTICAL:
 N/A

PROJ #: 13-1166
 DATE: 06/23/20
 DRAWN: JPP/JMH
 REVIEWED: TRW

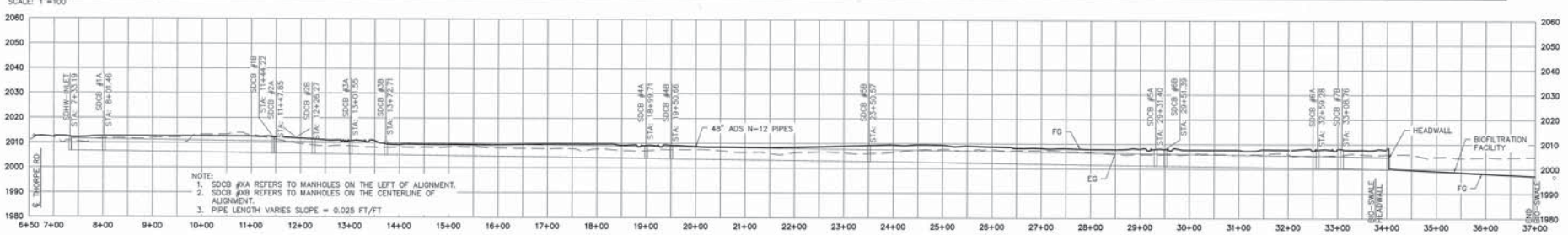
IWCE
 WHIPPLE CONSULTING ENGINEERS
 208 NORTH ELLIOTT ROAD
 SPOKANE VALLEY, WA 99216
 PH: 509-862-2817 FAX: 509-862-0287

**SPOKANE VALLEY PAINTED HILLS PRD
 INTERSECTION DETAILS
 DISHMAN-MICA RD.
 SPOKANE VALLEY, WA**

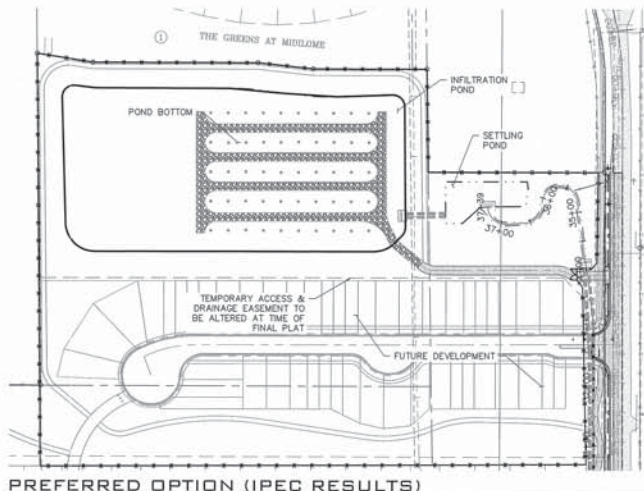
**SHEET
 C3.30**
 JOB NUMBER
 13-1166



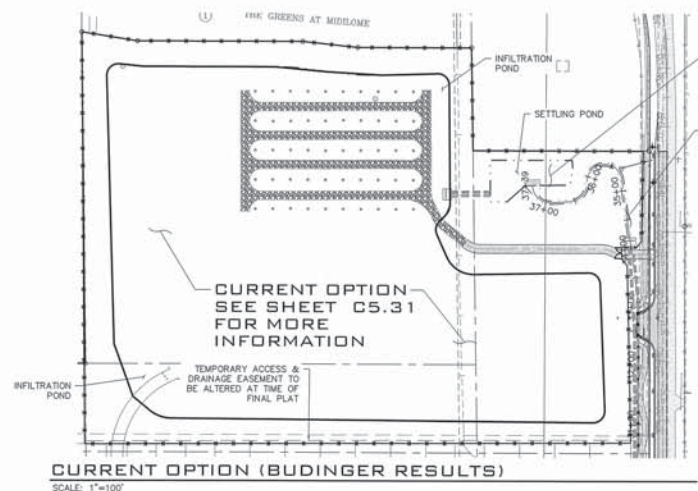
OVERALL STORM PLAN
SCALE: 1"=100'



OVERALL STORM PROFILE
SCALE: 1"=100'



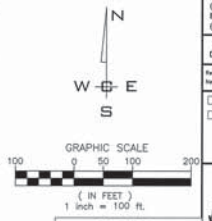
PREFERRED OPTION (IPEC RESULTS)
SCALE: 1"=100'



CURRENT OPTION (BUDINGER RESULTS)
SCALE: 1"=100'

SEE SHEETS C5.30 FOR MORE INFORMATION

SEE SHEET C5.30 FOR MORE INFORMATION



PLANS NOT APPROVED BY AGENCY

City of Spokane Valley
Project/Permit No.:

SUB-2016-0001
(Subdivision)
FPD-2016-0007
(Flood Plain Development)
EGR-2016-0066
(Engineered Grading)

City of Spokane Valley
Development Engineering

Reviewer:
New Street Use - Public

Not Reviewed
 Reviewed for Conformance to Street Standards and Accepted per Chapter 1.2
Date Accepted: _____
Acceptance Comments:

SPokane Valley
Professional Engineer
1450 2000

⚡ DATUM: NAVD - 88
TBM 5.4 OF THE SOUTH PONDEROSA SENIOR PROJECT
WITH AN ELEVATION OF 2005.87 (NAVD89) = 2009.67
(NAVD88) WAS USED FOR THE VERTICAL DATUM FOR THIS MAP.

NO.	DATE	BY	REVISIONS
3	08-22-20	JMH	REVISED PLANS
2	08-14-18	JPP	REVISED PLANS
1	08-12-16	JPP	ORIGINAL PREPARATION

SCALE:
HORIZONTAL:
1"=100'
VERTICAL:
1"=20'

PROJ #: 13-1166
DATE: 06/23/20
DRAWN: JPP
REVIEWED: TRW

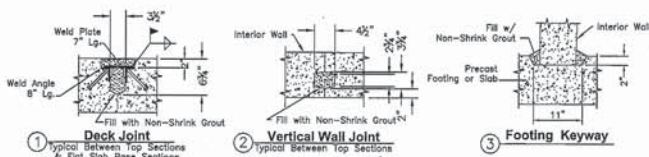
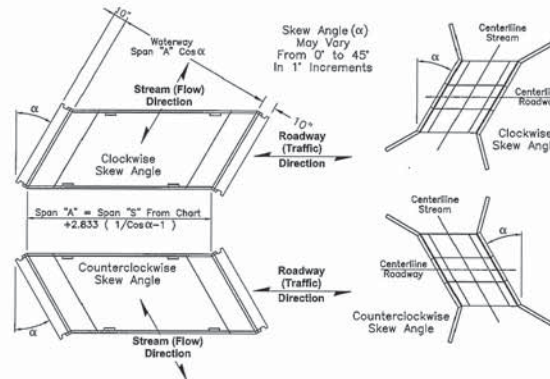
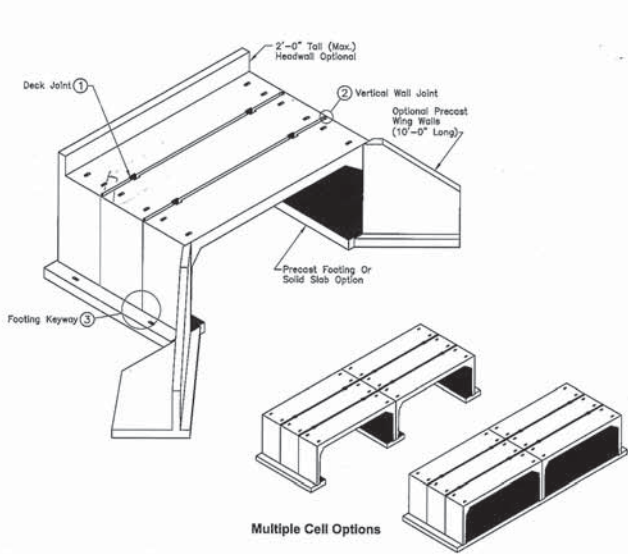
IWCE
WHITLEY CONSULTING ENGINEERS
308 NORTH BULLWAIN ROAD
SPOKANE VALLEY, WA 99216
PH: 509-860-0217 FAX: 509-860-0217

**SPOKANE VALLEY PAINTED HILLS PRD
FLOOD SYSTEM OVERVIEW
DISHMAN-MICA RD.
SPOKANE VALLEY, WA**

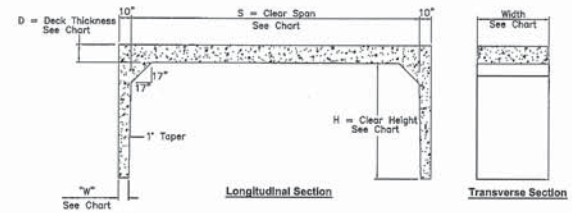
**SHEET
C5.0**
JOB NUMBER
13-1166

SE₁, SEC. 33, T. 25N., R. 44E., W.M.
 SW₃, SEC. 34, T. 25N., R. 44E., W.M.
 NE₁, SEC. 4, T. 24N., R. 44E., W.M.

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



Designed For HS-20 Or HS-25 Loads As Specified
 (Heavier Loads Available Upon Request)



Sizing And Weights (KIPs) for Standard Product

SPAN Ft.	10'-0" Width Product																5'-0" Width Product															
	8	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35					
DECK D	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"					
WH9.5#	25.2	26.4	27.6	28.8	30.0	31.2	32.4	33.6	34.8	36.0	37.2	38.4	39.6	40.8	42.0	43.2	44.4	45.6	46.8	48.0	49.2	50.4	51.6	52.8	54.0	55.2	56.4					
WH9.5#	27.4	28.6	29.8	31.0	32.2	33.4	34.6	35.8	37.0	38.2	39.4	40.6	41.8	43.0	44.2	45.4	46.6	47.8	49.0	50.2	51.4	52.6	53.8	55.0	56.2	57.4	58.6					
WH10#	29.6	30.8	32.0	33.2	34.4	35.6	36.8	38.0	39.2	40.4	41.6	42.8	44.0	45.2	46.4	47.6	48.8	50.0	51.2	52.4	53.6	54.8	56.0	57.2	58.4	59.6	60.8					
WH10#	31.8	33.0	34.2	35.4	36.6	37.8	39.0	40.2	41.4	42.6	43.8	45.0	46.2	47.4	48.6	49.8	51.0	52.2	53.4	54.6	55.8	57.0	58.2	59.4	60.6	61.8	63.0					
WH10#	34.0	35.2	36.4	37.6	38.8	40.0	41.2	42.4	43.6	44.8	46.0	47.2	48.4	49.6	50.8	52.0	53.2	54.4	55.6	56.8	58.0	59.2	60.4	61.6	62.8	64.0	65.2					
WH10#	36.2	37.4	38.6	39.8	41.0	42.2	43.4	44.6	45.8	47.0	48.2	49.4	50.6	51.8	53.0	54.2	55.4	56.6	57.8	59.0	60.2	61.4	62.6	63.8	65.0	66.2	67.4					
WH10#	38.4	39.6	40.8	42.0	43.2	44.4	45.6	46.8	48.0	49.2	50.4	51.6	52.8	54.0	55.2	56.4	57.6	58.8	60.0	61.2	62.4	63.6	64.8	66.0	67.2	68.4	69.6					
WH10#	40.6	41.8	43.0	44.2	45.4	46.6	47.8	49.0	50.2	51.4	52.6	53.8	55.0	56.2	57.4	58.6	59.8	61.0	62.2	63.4	64.6	65.8	67.0	68.2	69.4	70.6	71.8					
WH10#	42.8	44.0	45.2	46.4	47.6	48.8	50.0	51.2	52.4	53.6	54.8	56.0	57.2	58.4	59.6	60.8	62.0	63.2	64.4	65.6	66.8	68.0	69.2	70.4	71.6	72.8	74.0					
WH10#	45.0	46.2	47.4	48.6	49.8	51.0	52.2	53.4	54.6	55.8	57.0	58.2	59.4	60.6	61.8	63.0	64.2	65.4	66.6	67.8	69.0	70.2	71.4	72.6	73.8	75.0	76.2					

NOTE:
 USED A 3'x3' BOX CULVERT WITH A CLOCKWISE SKEW ANGLE

PLANS
 NOT APPROVED
 BY AGENCY

• DATUM: NAVD - 88
 TBM 5-S OF THE SOUTH PONDEROSA SEWER PROJECT
 WITH AN ELEVATION OF 2005.87 (NAVD2011 = 2003.87)
 (NAVD08) WAS USED FOR THE VERTICAL DATUM FOR THIS MAP.

SCALE:	PROJ #: 13-1166	DATE: 06/23/20	DRAWN: JPP	REVIEWED: TRW
HORIZONTAL:	N/A			
VERTICAL:	N/A			



**SPOKANE VALLEY PAINTED HILLS PRD
 BOX CULVERT DETAILS
 DISHMAN-MICA RD.
 SPOKANE VALLEY, WA**

City of Spokane Valley
 Project/Permit No.:
 SUB-2015-0001
 (Subdivision)
 FPD-2016-0007
 (Flood Plain Development)
 EGR-2016-0006
 (Engineered Grading)

City of Spokane Valley
 Development Engineering

Reviewer:
 How: Street, Mile - Public

Not Reviewed
 Reviewed for Conformance to
 Street Standards and
 Accepted per Chapter 1.2
 Date Accepted: _____
 Acceptance Comments: _____

175022000

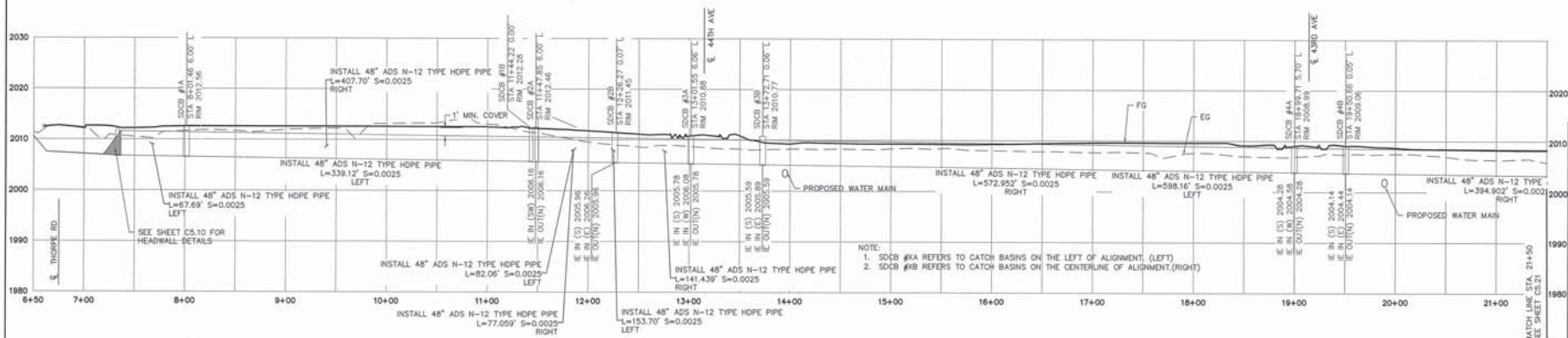
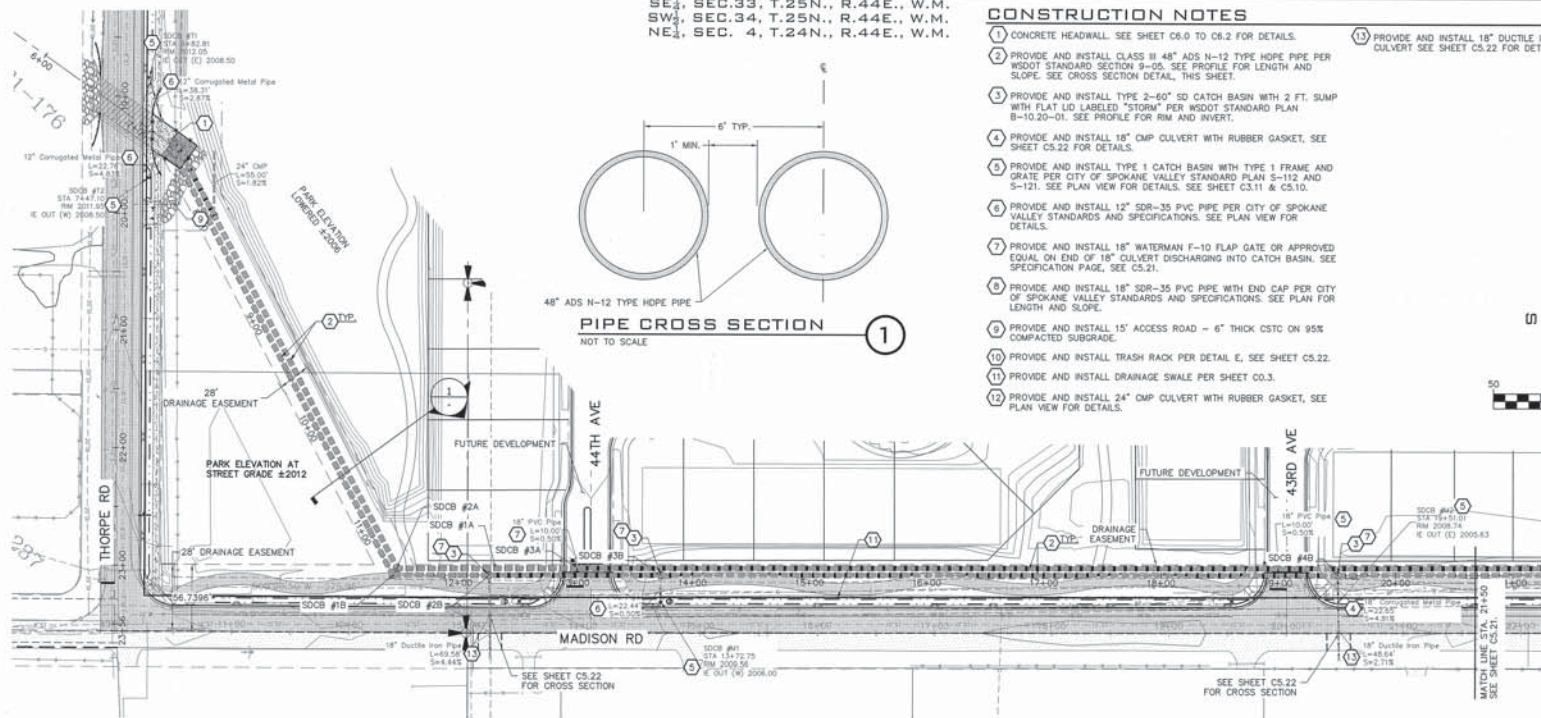
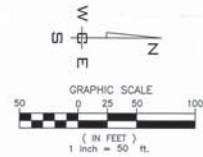
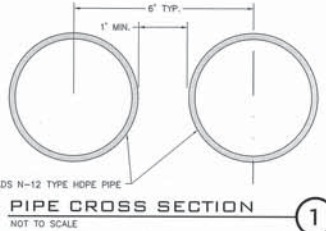
**SHEET
 C5.11**

JOB NUMBER
13-1166

SE_{1/4}, SEC. 33, T. 25N., R. 44E., W.M.
 SW_{1/4}, SEC. 34, T. 25N., R. 44E., W.M.
 NE_{1/4}, SEC. 4, T. 24N., R. 44E., W.M.

CONSTRUCTION NOTES

- 1 CONCRETE HEADWALL. SEE SHEET C5.0 TO C5.2 FOR DETAILS.
- 2 PROVIDE AND INSTALL CLASS II 48" ADS N-12 TYPE HOPE PIPE PER WSDOT STANDARD SECTION 9-05. SEE PROFILE FOR LENGTH AND SLOPE. SEE CROSS SECTION DETAILS, THIS SHEET.
- 3 PROVIDE AND INSTALL TYPE 2-60" SD CATCH BASIN WITH 2 FT. SUMP WITH FLAT LID LABELED "STORM" PER WSDOT STANDARD PLAN B-10.20-01. SEE PROFILE FOR RIM AND INVERT.
- 4 PROVIDE AND INSTALL 18" CMP CULVERT WITH RUBBER GASKET, SEE SHEET C5.22 FOR DETAILS.
- 5 PROVIDE AND INSTALL TYPE 1 CATCH BASIN WITH TYPE 1 FRAME AND GRATE PER CITY OF SPOKANE VALLEY STANDARD PLAN S-112 AND S-121. SEE PLAN VIEW FOR DETAILS. SEE SHEET C3.11 & C5.10.
- 6 PROVIDE AND INSTALL 12" SDR-35 PVC PIPE PER CITY OF SPOKANE VALLEY STANDARDS AND SPECIFICATIONS. SEE PLAN VIEW FOR DETAILS.
- 7 PROVIDE AND INSTALL 16" WATERMAN F-10 FLAP GATE OR APPROVED EQUAL ON END OF 18" CULVERT DISCHARGING INTO CATCH BASIN. SEE SPECIFICATION PAGE, SEE C5.21.
- 8 PROVIDE AND INSTALL 18" SDR-35 PVC PIPE WITH END CAP PER CITY OF SPOKANE VALLEY STANDARDS AND SPECIFICATIONS. SEE PLAN FOR LENGTH AND SLOPE.
- 9 PROVIDE AND INSTALL 15' ACCESS ROAD - 6" THICK CSTC ON 95% COMPACTED SUBGRADE.
- 10 PROVIDE AND INSTALL TRASH RACK PER DETAIL E, SEE SHEET C5.22.
- 11 PROVIDE AND INSTALL DRAINAGE SWALE PER SHEET C0.3.
- 12 PROVIDE AND INSTALL 24" CMP CULVERT WITH RUBBER GASKET, SEE PLAN VIEW FOR DETAILS.



City of Spokane Valley
 Project/Permit No.:
 SUB-2015-0001
 (Subdivision)
 FPD-2016-0007
 (Flood Plain Development)
 EOR-2016-0006
 (Engineered Grading)

City of Spokane Valley
 Development Engineering

Review: _____
 See Street Wks - Public

Not Reviewed

Reviewed for Conformance to Street Standards and Accepted per Chapter 1.2
 Date Accepted: _____
 Acceptance Comments: _____

PLANS NOT APPROVED BY AGENCY

☛ DATUM: NAVD - 88
 TIM 5-8 OF THE SOUTH PONDEROSA SEWER PROJECT
 WITH AN ELEVATION OF 2008.87 (NAVD2011) + 2009.87
 (NAVD08) WAS USED FOR THE VERTICAL DATUM FOR THIS MAP.

NO.	DATE	BY	REVISIONS
3	08-22-20	JMH	REVISED PLANS
2	08-14-18	JPP	REVISED PLANS
1	08-12-16	JPP	ORIGINAL PREPARATION

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

PROJ #: 13-1168
 DATE: 06/23/20
 DRAWN: JPP
 REVIEWED: TRW

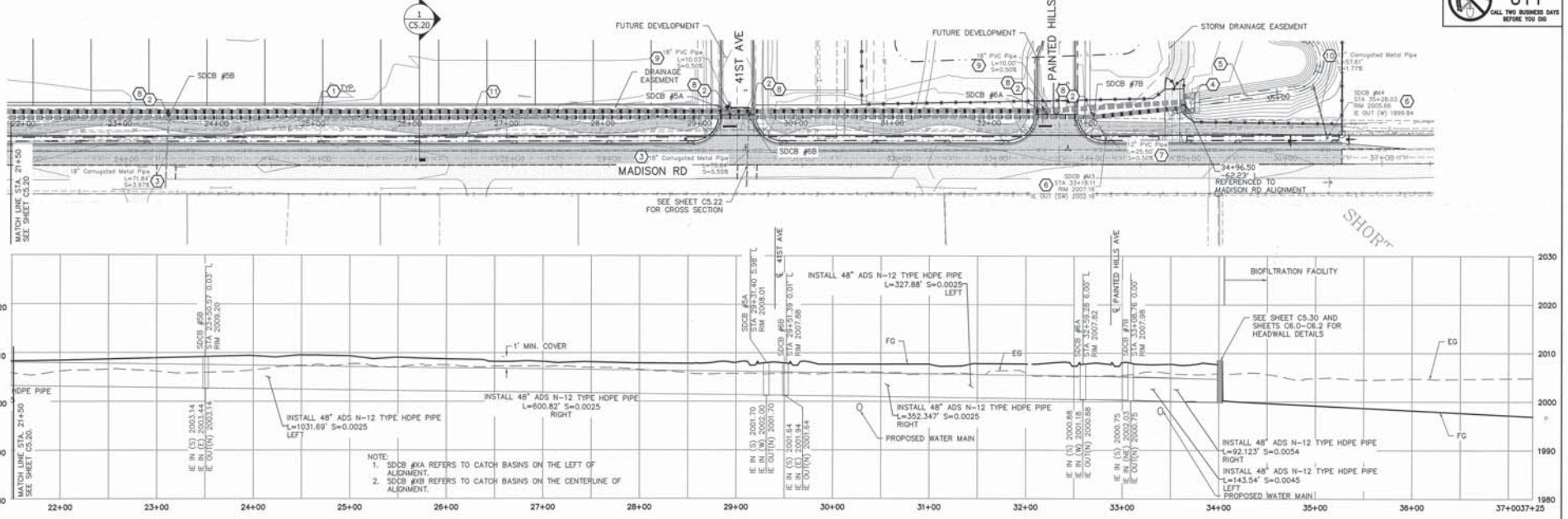


**SPOKANE VALLEY PAINTED HILLS PRD
 MADISON ROAD PIPE P&P
 DISHMAN-MICA RD.
 SPOKANE VALLEY, WA**

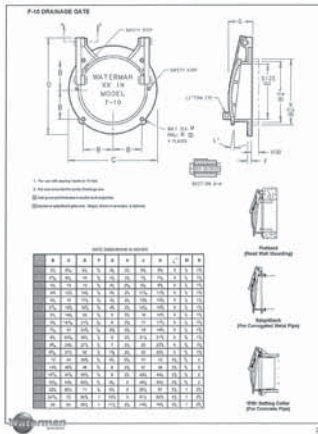
SHEET C5.20
 JOB NUMBER 13-1166

SE 1/4, SEC. 33, T.25N., R.44E., W.M.
 SW 1/4, SEC. 34, T.25N., R.44E., W.M.
 NE 1/4, SEC. 4, T.24N., R.44E., W.M.

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

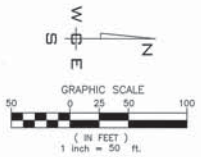


NOTE:
 1. SCOB #xA REFERS TO CATCH BASINS ON THE LEFT OF ALIGNMENT.
 2. SCOB #xB REFERS TO CATCH BASINS ON THE CENTERLINE OF ALIGNMENT.



CONSTRUCTION NOTES

- 1 PROVIDE AND INSTALL CLASS III 48" ADS N-12 TYPE HDPE PIPE PER WSDOT STANDARD SECTION 9-05. SEE TYPICAL CROSS SECTION ON SHEET CS.20 DETAIL AND C0.3 AND C1.3.
- 2 PROVIDE AND INSTALL TYPE 2-60" SD CATCH BASIN WITH 2 FT. SLUMP WITH FLAT LID LABELED "STORM" PER WSDOT STANDARD PLAN B-10.20-01.
- 3 PROVIDE AND INSTALL 18" CMP CULVERT WITH RUBBER GASKET, SEE SHEET CS.22 FOR DETAILS.
- 4 PROVIDE AND INSTALL CONCRETE HEADWALL AND OUTLET PAD, SEE SHEETS CS.30, C6.0-C6.2 FOR DETAILS.
- 5 PROVIDE AND INSTALL BIOSWALE, SEE SHEET CS.30 FOR DETAILS.
- 6 PROVIDE AND INSTALL TYPE 1 CATCH BASIN WITH TYPE 1 FRAME AND GRATE PER CITY OF SPOKANE VALLEY STANDARD PLAN S-112 AND S-121. SEE PLAN VIEW FOR DETAILS.
- 7 PROVIDE AND INSTALL 12" SDR-35 PVC PIPE PER CITY OF SPOKANE VALLEY STANDARDS AND SPECIFICATIONS. SEE PLAN VIEW FOR DETAILS.
- 8 PROVIDE AND INSTALL 18" WATERMAN F-10 FLAP GATE OR APPROVED EQUAL ON END OF 18" CULVERT DISCHARGING INTO MANHOLE. SEE SPECIFICATION PAGE, THIS SHEET.
- 9 PROVIDE AND INSTALL 18" SDR-35 PVC PIPE WITH END CAP PER CITY OF SPOKANE VALLEY STANDARDS AND SPECIFICATIONS. SEE PLAN VIEW FOR DETAILS.
- 10 PROVIDE AND INSTALL 12" CMP PIPE PER CITY OF SPOKANE VALLEY STANDARDS AND SPECIFICATIONS. SEE PLAN VIEW FOR DETAILS.
- 11 PROVIDE AND INSTALL DRAINAGE SWALE PER SHEET C0.3.



City of Spokane Valley
 Project/Parcel No.:
 SUB-2015-0001
 (Subdivision)
 FPD-2015-0007
 (Flood Plain Development)
 EOR-2015-0008
 (Engineered Grading)

City of Spokane Valley
 Development Engineering

Reviewer:
 Max Street Wiles - Public

Not Reviewed
 Reviewed for Conformance to Street Standards and Accepted per Chapter 1.2
 Date Accepted: _____
 Acceptance Comment: _____

City of Spokane Valley
 PROFESSIONAL ENGINEER
 License No. 14512

PLANS
 NOT APPROVED
 BY AGENCY

◆ DATUM: NAVD - 88
 TBM 5-4 OF THE SOUTH PONDEROSA SEWER PROJECT
 WITH AN ELEVATION OF 2005.87 (NAVD09) = 2009.87
 (NAVD08) WAS USED FOR THE VERTICAL DATUM FOR THIS
 MAP.

NO.	DATE	BY	REVISIONS
1	08-12-16	JPP	ORIGINAL PREPARATION
2	08-14-18	JPP	REVISED PLANS
3	08-22-20	JMM	REVISED PLANS

SCALE:
 HORIZONTAL:
 1"=80'
 VERTICAL:
 1"=10'

PROJ #: 13-1168
 DATE: 06/23/20
 DRAWN: JPP
 REVIEWED: TRV

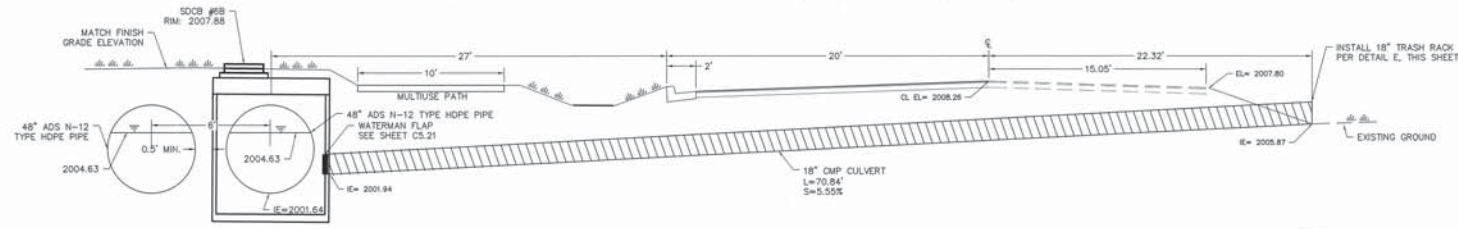


**SPOKANE VALLEY PAINTED HILLS PRD
 MADISON ROAD PIPE P&P CONT.
 DISHMAN-MICA RD.
 SPOKANE VALLEY, WA**

SHEET
C5.21
 JOB NUMBER
13-1166

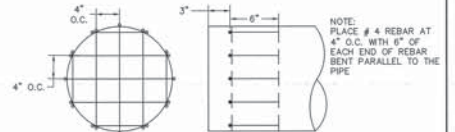
SE_{1/4}, SEC. 33, T. 25 N., R. 44 E., W. M.
 SW_{1/4}, SEC. 34, T. 25 N., R. 44 E., W. M.
 NE_{1/4}, SEC. 4, T. 24 N., R. 44 E., W. M.

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

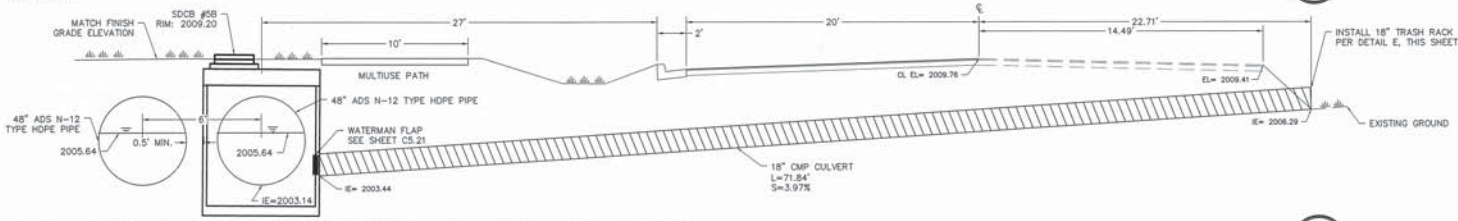


MADISON RD PIPE CROSSING - CB #6B (SEE SHEET C3.22)
 MADISON STA. 30+43
 NOT TO SCALE

(A)

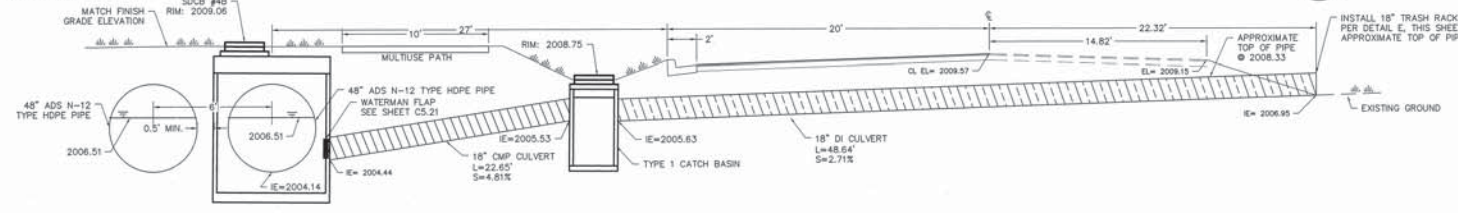
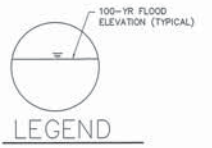


18" TRASH RACK DETAIL
 NOT TO SCALE



MADISON RD PIPE CROSSING - CB #5B (SEE SHEET C3.22)
 MADISON STA. 24+43
 NOT TO SCALE

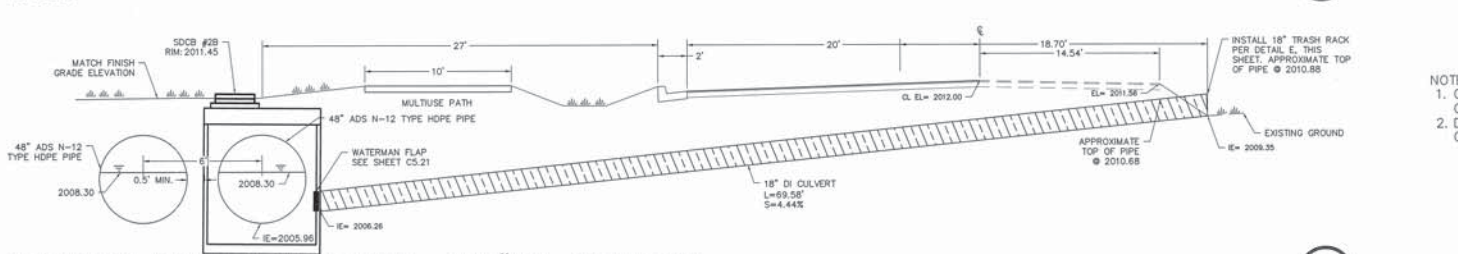
(B)



MADISON RD PIPE CROSSING - CB #4B (SEE SHEET C3.21)
 MADISON STA. 20+44
 NOT TO SCALE

(C)

NOTE:
 1. CMP SHALL MEET THE REQUIREMENTS OF WSDOT STD SPEC 9-05.1(2)
 2. DI PIPE SHALL MEET THE REQUIREMENTS OF WSDOT STD SPEC 9-05.13



MADISON RD PIPE CROSSING - CB #2B (SEE SHEET C3.20)
 MADISON STA. 13+22
 NOT TO SCALE

(D)

PLANS
 NOT APPROVED
 BY AGENCY

City of Spokane Valley
 Project/Permit No.:
 SUB-2015-0001
 (Subdivision)
 FPD-2015-0007
 (Flood Plain Development)
 EGR-2015-0006
 (Engineered Grading)

City of Spokane Valley
 Development Engineering

Revised: _____
 New Street Width - Public: _____

Not Reviewed
 Reviewed for Conformance to Street Standards and Accepted per Chapter 1.3
 Date Accepted: _____
 Accepted Comments: _____

DATUM: NAVD - 88
 TBM 5.6 OF THE SOUTH FORGERSIA SENIOR PROJECT
 WITH AN ELEVATION OF 2026.87 (NAVD08) - 2009.67
 (NAVD08) WAS USED FOR THE VERTICAL DATUM FOR THIS
 MAP.

NO.	DATE	BY	REVISIONS
3	06/22/20	JMH	REVISED PLANS
2	08-14-18	JPP	REVISED PLANS
1	08-12-18	JPP	ORIGINAL PREPARATION

SCALE:
 HORIZONTAL: N/A
 VERTICAL: N/A

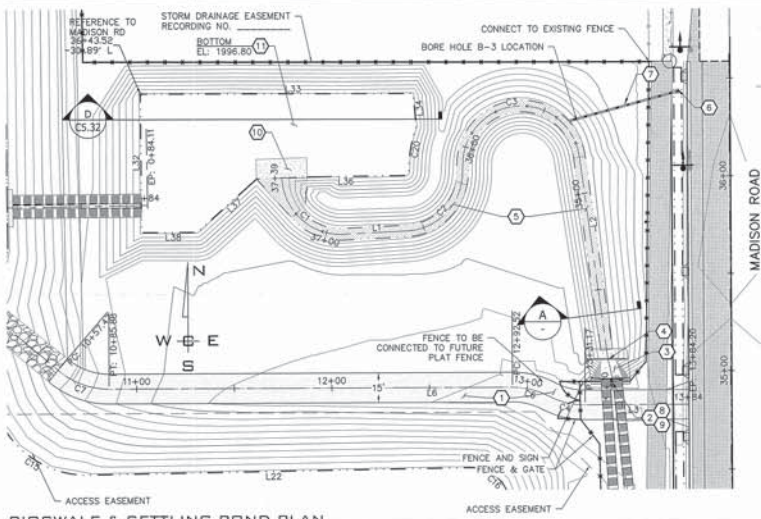
PROJ #: 13-1166
 DATE: 06/23/20
 DRAWN: JPP
 REVIEWED: TRW

IWCE
 WHITFIELD CONSULTING ENGINEERS
 2008 NORTH SULLIVAN ROAD
 SPOKANE VALLEY, WA 99216
 PH: 509-893-2617 FAX: 509-893-9227

**SPOKANE VALLEY PAINTED HILLS PRD
 MADISON RD CULVERT PLAN
 DISHMAN-MICA R.D.
 SPOKANE VALLEY, WA**

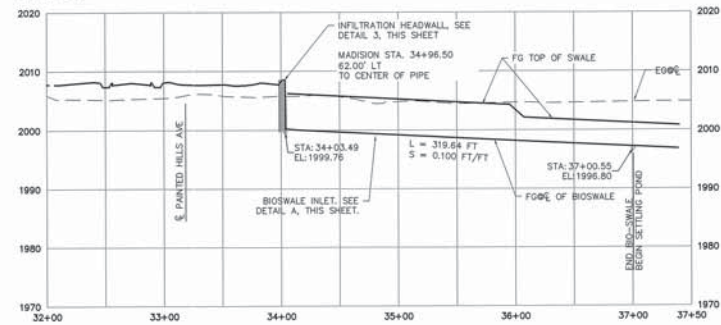
SHEET
C5.22
 JOB NUMBER
13-1166

SE 1/4, SEC. 33, T. 25N., R. 44E., W.M.
 SW 1/4, SEC. 34, T. 25N., R. 44E., W.M.
 NE 1/4, SEC. 4, T. 24N., R. 44E., W.M.



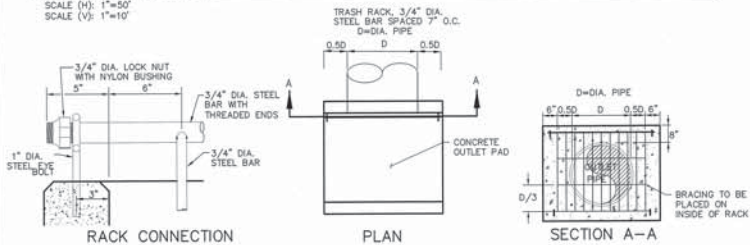
BIOSWALE & SETTLING POND PLAN

SCALE: 1"=30'



BIOSWALE PROFILE

SCALE (H): 1"=50'
 SCALE (V): 1"=10'



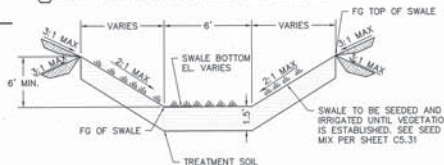
VERTICAL OUTLET TRASH RACK

NOT TO SCALE

5

CONSTRUCTION NOTES

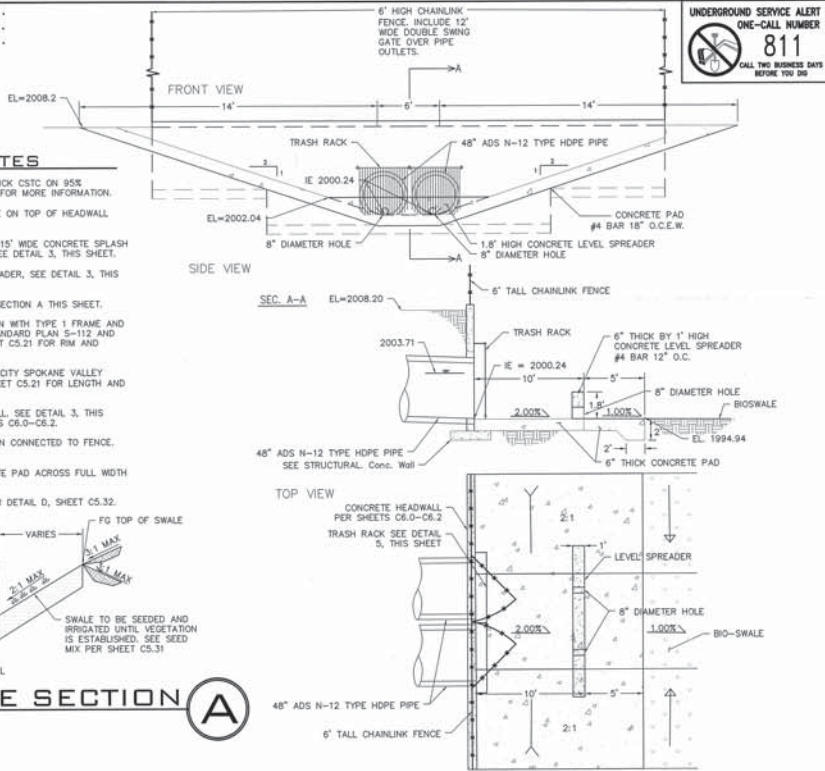
- CONSTRUCT 15' WIDE ACCESS RD - 6" THICK CSTC ON 95% COMPACTED SUBGRADE. SEE SHEET C5.31 FOR MORE INFORMATION.
- PROVIDE AND INSTALL 6" CHAINLINK FENCE ON TOP OF HEADWALL AND ALONG PATHWAY WITHIN SHOULDER.
- PROVIDE AND INSTALL 6" THICK BY 10' X 15' WIDE CONCRETE SPLASH PAD ACROSS FULL WIDTH OF BIOSWALE. SEE DETAIL 3, THIS SHEET.
- PROVIDE & INSTALL 1.8' TALL LEVEL SPREADER, SEE DETAIL 3, THIS SHEET.
- PROVIDE AND INSTALL 6" BIOSWALE, SEE SECTION A THIS SHEET.
- PROVIDE AND INSTALL TYPE I CATCH BASIN WITH TYPE I FRAME AND GRATE PER CITY OF SPOKANE VALLEY STANDARD PLAN S-112 AND S-121. SEE PLAN FOR DETAILS. SEE SHEET C5.21 FOR RM AND INVERT.
- PROVIDE AND INSTALL 12" CMP PIPE PER CITY SPOKANE VALLEY STANDARDS AND SPECIFICATIONS. SEE SHEET C5.21 FOR LENGTH AND SLOPE.
- PROVIDE AND INSTALL CONCRETE HEADWALL SEE DETAIL 3, THIS SHEET AND STANDARD DETAILS ON SHEETS C6.0-C6.2.
- PROVIDE AND INSTALL FLOOD FACILITY SIGN CONNECTED TO FENCE. SEE DETAIL A.3 ON SHEET C5.10.
- PROVIDE AND INSTALL 10'-26"x6" CONCRETE PAD ACROSS FULL WIDTH OF BIOSWALE.
- PROVIDE AND INSTALL SETTLING POND PER DETAIL D, SHEET C5.32.



TYPICAL BIOSWALE SECTION

NOT TO SCALE

A



BIOSWALE INLET CROSS SECTION & SPLASH PAD

NOT TO SCALE

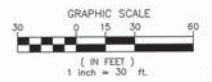
3

Line Table (E BIOSWALE)		
Line #	Length	Direction
L1	31.82	N87° 04' 53"E
L2	114.43	S7° 31' 39"E

Line Table (E ACCESS RD)		
Line #	Length	Direction
L1	31.82	N87° 04' 53"E
L2	114.43	S7° 31' 39"E

Curve Table (E BIOSWALE)			
Curve #	Length	Radius	Delta
C1	47.08	30.00	89.92
C2	45.45	30.00	86.80
C3	95.50	30.26	180.81

Curve Table (E ACCESS RD)			
Curve #	Length	Radius	Delta
C1	47.08	30.00	89.92
C2	45.45	30.00	86.80
C3	95.50	30.26	180.81



DATUM: NAVD - 88
 TBM 5 OF THE SOUTH POND/RICKA COVER PROJECT
 WITH AN ELEVATION OF 2005.87 (NAVC09)-2009.87
 (NAVC08) WAS USED FOR THE VERTICAL DATUM FOR THIS
 MAP.

NO.	DATE	BY	REVISIONS

SCALE:	PROJ #: 13-1106	DATE: 11/01/17
HORIZONTAL:	AS SHOWN	DRAWN: JPP
VERTICAL:	1"=10'	REVIEWED: TRW



PAINTED HILLS BIOSWALE/SETTLING POND P&P
DISHMAN-MICA RD. SPOKANE VALLEY, WA

SHEET C5.30

JOB NUMBER 13-1166

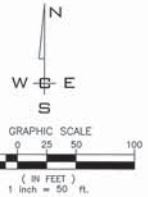
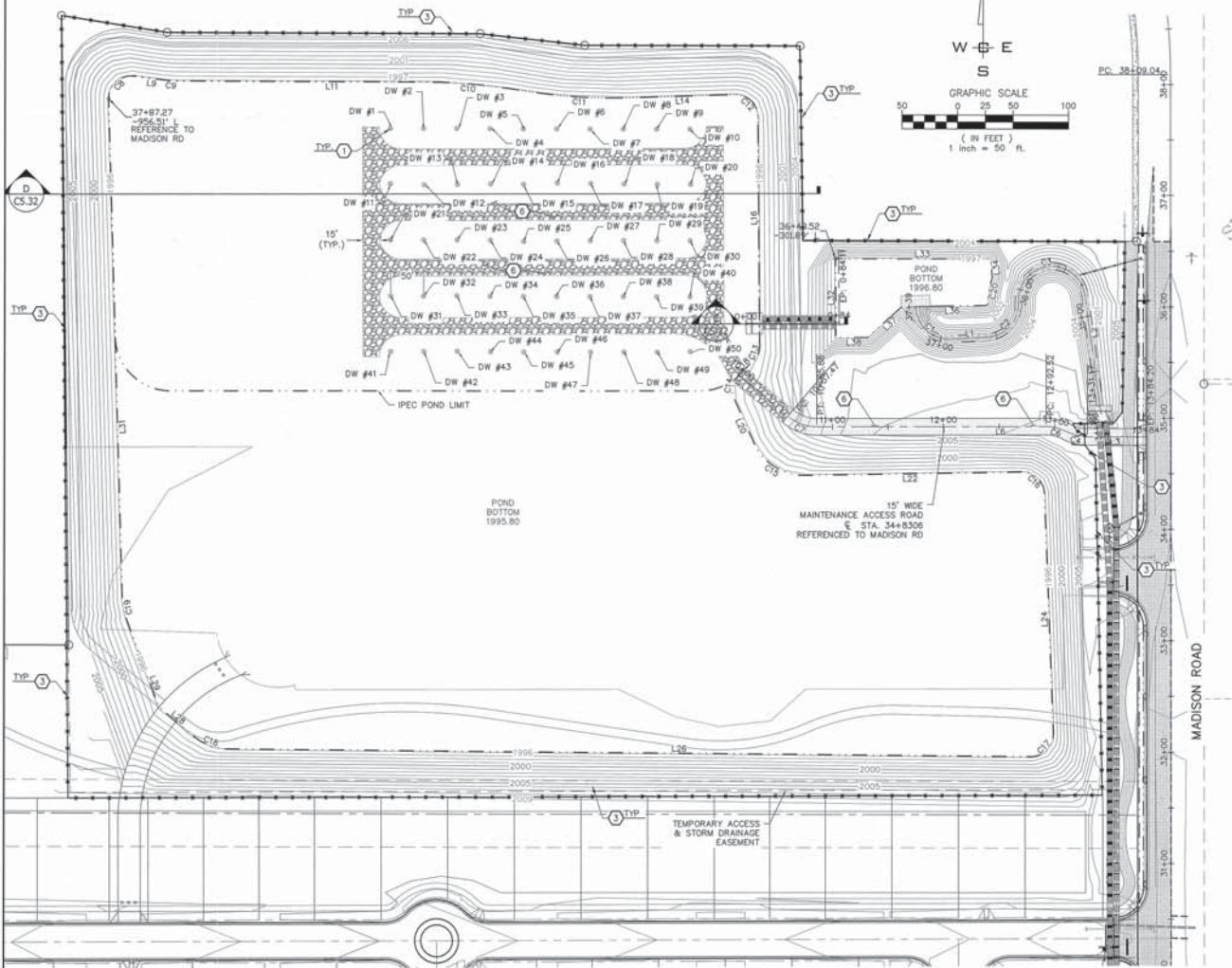
INFILTRATION POND
 FINISHED GRADE POND BOTTOM EL.=1996.80
 POND TREATMENT AREA PROVIDED=405,793 S.F.
 MINIMUM BERM ELEV.=2002.80

SETTLING POND
 FINISHED GRADE POND BOTTOM EL.=1996.80
 POND TREATMENT AREA PROVIDED=7,172 S.F.
 MINIMUM BERM ELEV.=2002.80

SE 1/4, SEC. 33, T. 25 N., R. 44 E., W. M.
 SW 1/4, SEC. 34, T. 25 N., R. 44 E., W. M.
 NE 1/4, SEC. 4, T. 24 N., R. 44 E., W. M.



THE GREENS AT MEDILOME



- CONSTRUCTION NOTES**
- 1 PROVIDE AND INSTALL DOUBLE DEPTH DRYWELL PER CITY OF SPOKANE VALLEY STANDARD PLAN S-101, RM ELEVATION 1986.80. SEE SHEET C5.32 FOR LOCATION TABLE.
 - 2 RESERVED.
 - 3 PROVIDE AND INSTALL 6' TALL CHAINLINK FENCE.
 - 4 PROVIDE AND INSTALL PATHWAY CULVERT PER DETAIL C, THIS SHEET.
 - 5 PROVIDE AND INSTALL POND PER DETAIL D, SHEET C5.32.
 - 6 PROVIDE AND INSTALL MAINTENANCE ACCESS ROAD. SEE PLAN VIEW FOR MORE INFORMATION. SEE SHEET C5.32 FOR PLAN & PROFILE.

SEEDING NOTE:
 "GRASS SEED" PROVIDE FRESH, CLEAN, NEW "DROP" SEED COMPLYING WITH TOLERANCE OF PURITY AND GERMINATION ESTABLISHED BY THE OFFICIAL SEED ANALYSIS OF NORTH AMERICAN. PROVIDE SEED MIXTURE COMPOSED OF GRASS SPECIES AND PERCENTAGES AS FOLLOWS:
 10 PER CENT ELKA PERENNIAL RYE
 25 PERCENT DURAR HARD FESCUE
 50 PERCENT COVAR SHEEP/FESCUE
 15 PERCENT REBELS CANADIAN BLUEGRASS
 PROVIDE MIXTURE COMPOSED OF GRASS SEED AND FERTILIZER IN PERCENTAGES AS FOLLOWS:
 GRASS SEED: 90 LBS. PER ACRE
 FERTILIZER: 16-16-16 TIMED RELEASE COMPOSITION, 300 LBS. PER ACRE
 ALL SEEDING OF SLOPES SHALL BE DONE IN ACCORDANCE WITH THE W.S.O.T. STANDARD SPECIFICATIONS, SECTION 6-01.

Line #	Length	Direction
L9	27.67	N82° 44' 18"W
L11	223.95	N89° 55' 58"W
L14	94.68	S88° 09' 55"W
L16	205.34	N07° 31' 42"W
L18	16.97	N45° 38' 06"E
L20	42.06	N24° 08' 14"W
L22	195.40	S89° 04' 15"W
L24	215.75	N2° 12' 34"W
L26	723.09	S89° 29' 04"E
L28	40.13	S50° 21' 09"E
L29	86.60	S20° 24' 12"E
L31	448.61	S1° 40' 17"E
L32	70.86	N07° 21' 32"W
L33	139.69	N90° 00' 00"E
L34	17.14	S5° 24' 16"E
L36	50.29	S89° 13' 53"W
L37	40.93	S48° 09' 23"W
L38	28.45	S89° 53' 28"W

Curve #	Length	Radius	Delta
C8	34.53	20.00	98.93
C9	12.56	100.00	7.19
C10	75.27	500.00	8.62
C11	91.86	500.00	10.53
C12	31.87	20.00	91.31
C13	16.11	20.00	46.18
C14	24.36	20.00	69.77
C15	58.29	50.00	66.79
C16	30.97	20.00	88.72
C17	32.37	20.00	92.73
C18	34.15	50.00	39.13
C19	16.35	50.00	18.73
C20	23.07	66.22	19.96

DATUM: NAVD - 88
 TBM 5 & 6 OF THE SOUTH PONDEROSA SEWER PROJECT
 WITH AN ELEVATION OF 2005.87 (NAVD09) = 2009.67
 (NAVD88) WAS USED FOR THE VERTICAL DATUM FOR THIS
 MAP.

NO.	DATE	BY	REVISIONS

SCALE:
 HORIZONTAL: 1"=30'
 VERTICAL: 1"=10'

PROJ #: 13-1168
 DATE: 11/01/17
 DRAWN: JPP
 REVIEWED: TRV



PAINTED HILLS INFILTRATION POND PLAN
DISHMAN-MICA RD.
SPOKANE VALLEY, WA

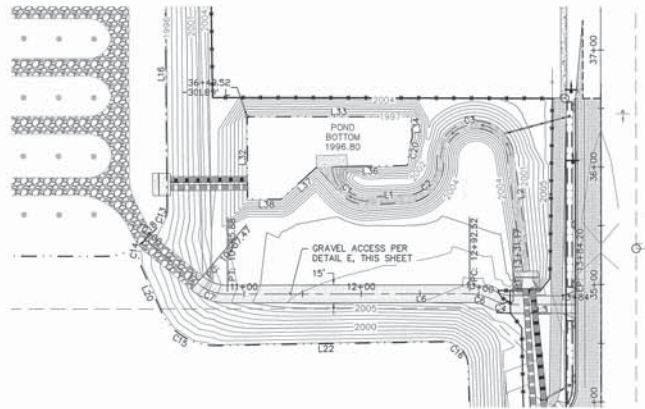


SHEET C5.31
 JOB NUMBER 13-1166

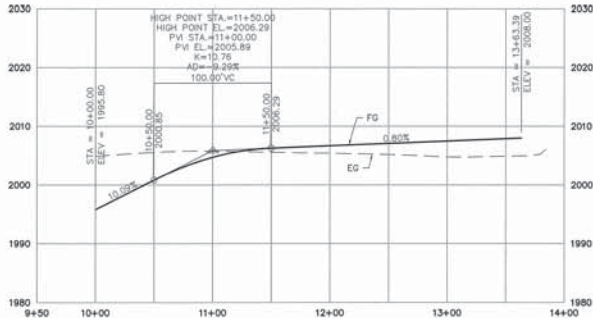
SE $\frac{1}{4}$, SEC. 33, T.25N., R.44E., W.M.
 SW $\frac{1}{4}$, SEC. 34, T. 25N., R.44E., W.M.
 NE $\frac{1}{4}$, SEC. 4, T.24N., R.44E., W.M.

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

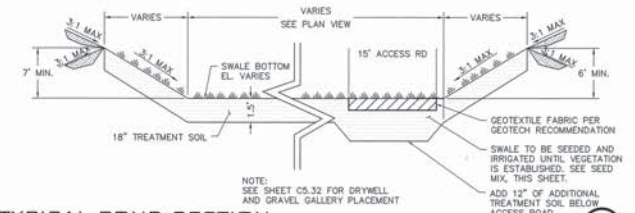
DRYWELL LOCATION TABLE				
NAME	ALIGNMENT	STATION	OFFSET	RT/LT
DW #1	MADISON RD	37+59.80	885.00	LT
DW #2	MADISON RD	37+59.80	835.00	LT
DW #3	MADISON RD	37+59.80	785.00	LT
DW #4	MADISON RD	37+59.80	735.00	LT
DW #5	MADISON RD	37+59.80	685.00	LT
DW #6	MADISON RD	37+59.80	635.00	LT
DW #7	MADISON RD	37+59.80	585.00	LT
DW #8	MADISON RD	37+59.80	535.00	LT
DW #9	MADISON RD	37+59.80	485.00	LT
DW #10	MADISON RD	37+59.80	435.00	LT
DW #11	MADISON RD	37+09.93	885.00	LT
DW #12	MADISON RD	37+09.93	835.00	LT
DW #13	MADISON RD	37+09.93	785.00	LT
DW #14	MADISON RD	37+09.93	735.00	LT
DW #15	MADISON RD	37+09.93	685.00	LT
DW #16	MADISON RD	37+09.93	635.00	LT
DW #17	MADISON RD	37+09.93	585.00	LT
DW #18	MADISON RD	37+09.93	535.00	LT
DW #19	MADISON RD	36+60.53	485.00	LT
DW #20	MADISON RD	36+60.53	435.00	LT
DW #21	MADISON RD	36+60.53	385.00	LT
DW #22	MADISON RD	36+60.53	335.00	LT
DW #23	MADISON RD	36+60.53	285.00	LT
DW #24	MADISON RD	36+60.53	235.00	LT
DW #25	MADISON RD	36+60.53	185.00	LT
DW #26	MADISON RD	36+60.53	135.00	LT
DW #27	MADISON RD	36+60.53	85.00	LT
DW #28	MADISON RD	36+60.53	35.00	LT
DW #29	MADISON RD	36+09.34	485.00	LT
DW #30	MADISON RD	36+09.34	435.00	LT
DW #31	MADISON RD	36+09.34	385.00	LT
DW #32	MADISON RD	36+09.34	335.00	LT
DW #33	MADISON RD	36+09.34	285.00	LT
DW #34	MADISON RD	36+09.34	235.00	LT
DW #35	MADISON RD	36+09.34	185.00	LT
DW #36	MADISON RD	36+09.34	135.00	LT
DW #37	MADISON RD	36+09.34	85.00	LT
DW #38	MADISON RD	36+09.34	35.00	LT
DW #39	MADISON RD	35+60.10	485.00	LT
DW #40	MADISON RD	35+60.10	435.00	LT
DW #41	MADISON RD	35+60.10	385.00	LT
DW #42	MADISON RD	35+60.10	335.00	LT
DW #43	MADISON RD	35+60.10	285.00	LT
DW #44	MADISON RD	35+60.10	235.00	LT
DW #45	MADISON RD	35+60.10	185.00	LT
DW #46	MADISON RD	35+60.10	135.00	LT
DW #47	MADISON RD	35+60.10	85.00	LT
DW #48	MADISON RD	35+60.10	35.00	LT
DW #49	MADISON RD	35+60.10	485.00	LT
DW #50	MADISON RD	35+60.10	435.00	LT



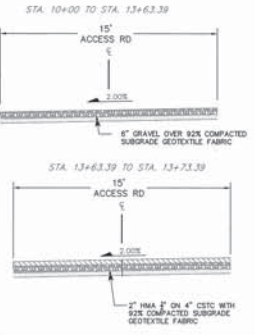
ACCESS ROAD PLAN VIEW
 NOT TO SCALE



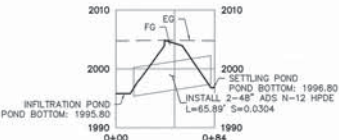
ACCESS ROAD PROFILE VIEW
 NOT TO SCALE



TYPICAL POND SECTION
 NOT TO SCALE



15' WIDE GRAVEL ACCESS
 NOT TO SCALE



PATHWAY CULVERTS
 NOT TO SCALE

GENERAL NOTES

- GRAVEL BAGGETS QUANTITY FOR SWALES: 100 LBS. OF 1/2" SIZED GRAVEL BAGGETS PER 1' OF SWALE ON 18" DEEPER OR DEEPER PLANS.
- GRAVEL BAGGETS FOR SWALES SHALL BE MOVED FROM TRUCK CONTAINERS TO MOIST TRENCHES BY HAND.
- FABRIC SHALL BE INSTALLED SUPERIMPOSED AS SHOWN IN MOIST TRENCHES AND SHALL BE PLACED ON THE BOTTOM OF THE SWALE.
- SEE STANDARD PLANS S-100 FOR PRECAST CONCRETE DETAILS.
- PRECAST ADJUSTMENT BRACKETS SHALL BE USED IN LIEU OF BRACKET BRIDGE.
- WHEN PVC PIPE IS USED, A PVC ADAPTER SHALL BE INSTALLED WHEN PAINT PIPE IS IN THE SAME SECTION.
- PIPES SHALL BE PROVIDED WITH DRYWELL.
- GRAVEL BAGGETS TO BE COMPLETELY COVERED WITH FABRIC.

NOTE: PVC PIPE ADAPTERS AND CASSETTES MAY VARY IN SHAPE AND SIZE AND SHALL BE USED TO FIT THE SIZE OF THE SWALE.

APPROVED BY: [Signature]

Spokane Valley

PRECAST DRYWELLS PLACED IN SWALE
 STANDARD PLAN NO. S-101

Spokane Valley Professional Engineer
 16307 200

DATUM: NAVD - 88
 TBM 5-4 OF THE SOUTH PONDEROSA SEWER PROJECT
 WITH AN ELEVATION OF 2005.87 (NAVD88) - 2009.87
 (NAVD88) WAS USED FOR THE VERTICAL DATUM FOR THIS
 MAP.

NO.	DATE	BY	REVISIONS

SCALE:	HORIZONTAL:	VERTICAL:
N/A	N/A	N/A

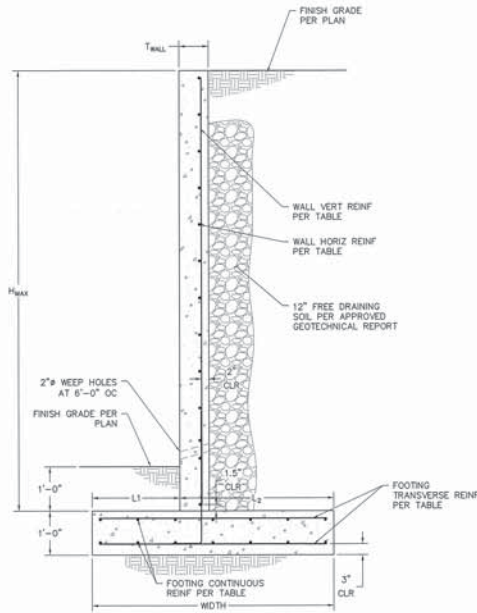
PROJECT NO.:	19-1168
DATE:	11/01/17
DRAWN:	JPP
REVIEWED:	TRW

WCE
 WHIPPLE CONSULTING ENGINEERS
 2026 NORTH SULLIVAN ROAD
 SPOKANE VALLEY, WA 82009
 PH: 509-885-0577 FAX: 509-885-0577

**PAINTED HILLS
 INFILTRATION POND DETAILS
 DISHMAN-MICA RD.
 SPOKANE VALLEY, WA**

**SHEET
 C5.32**
 JOB NUMBER
 13-1166

SE $\frac{1}{4}$, SEC. 33, T.25N., R.44E., W.M.
 SW $\frac{1}{4}$, SEC. 34, T. 25N., R.44E., W.M.
 NE $\frac{1}{4}$, SEC. 4, T.24N., R.44E., W.M.



- NOTE:**
1. REFERENCE C6.1 FOR STRUCTURAL TYPICAL DETAILS.
 2. ALL STRUCTURES TO BEAR ON SOIL PREPARED PER THE GEOTECHNICAL ENGINEER OF RECORD.
 3. WALL SHALL HAVE VERTICAL CONTROL JOINTS (w/CHAMFER STRIPS) AT 30'-0" OC MAX

BASIS OF DESIGN

GOVERNING CODE: INTERNATIONAL BUILDING CODE, 2015 EDITION

CHANNEL WALL DESIGN VALUES

DESIGN SOIL VALUES:
 BEARING PRESSURE 1500 PSF
 DESIGN METHOD - COULOMB
 COEFFICIENT OF FRICTION 0.40
 INTERNAL FRICTION ANGLE 30'
 **PER THE GEOTECHNICAL ENGINEER OF RECORD. FIELD VERIFY.
 DESIGNED FOR 125PSF SURCHARGE ON HEEL SIDE

GEOTECHNICAL INSPECTION:
 THE GEOTECHNICAL ENGINEER SHALL INSPECT ALL PREPARED SOIL BEARING SURFACES PRIOR TO PLACEMENT OF CONCRETE AND REINFORCING STEEL AND PROVIDE A LETTER TO THE OWNER STATING THE SOILS ARE ADEQUATE TO SUPPORT THE DESIGN SOIL VALUES. CONTRACTOR TO FOLLOW THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS FOR STEEP SLOPE BEST MANAGEMENT PRACTICES WHERE APPLICABLE.

CAST-IN-PLACE CONCRETE

ALL CONCRETE SHALL BE STONE AGGREGATE CONCRETE HAVING A UNIT WEIGHT OF APPROXIMATELY 150 PCF. CONCRETE SUBMITTALS SHALL CONFORM TO IBC SECTION 1905. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGN AND TESTING REPORTS FOR REVIEW BY THE ENGINEER PRIOR TO PLACEMENT OF ANY CONCRETE. MIXING AND PLACING OF ALL CONCRETE SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 301, ACI 318 AND THE IBC.

MIX DESIGN REQUIREMENTS

	SPECIFIED 28-DAY COMPRESSIVE STRENGTH	MAXIMUM AGGREGATE SIZE	MAX. W/C RATIO	AIR CONTENT (%)
FOUNDATIONS	3000 PSI	1 INCH	--	--
RETAINING WALLS	3000 PSI	3/4 INCH	--	5.0
EXTERIOR SOG	3000 PSI	3/4 INCH	0.50	6.0

W/C RATIO: WATER-CEMENTITIOUS MATERIAL RATIOS SHALL BE BASED ON THE TOTAL WEIGHT OF CEMENTITIOUS MATERIALS. RATIOS NOT SHOWN IN THE TABLE ABOVE ARE CONTROLLED BY STRENGTH REQUIREMENTS.

CEMENTITIOUS CONTENT: THE USE OF FLY ASH, OTHER POZZOLANS, SILICA FUME, OR SLAG SHALL CONFORM TO ACI STANDARDS. THE AMOUNT OF FLY ASH SHALL BE A MAXIMUM OF 20% OF THE TOTAL CEMENTITIOUS CONTENT UNLESS REVIEWED AND APPROVED OTHERWISE.

AIR CONTENT: CONFORM TO ACI STANDARDS. HORIZONTAL EXTERIOR SURFACES IN CONTACT WITH THE SOIL REQUIRE ENTRAINED AIR IN ACCORDANCE TO ACI TABLE 4.2.2.4 FOR SEVERE EXPOSURE. TOLERANCE IS $\pm 1.5\%$. AIR CONTENT SHALL BE MEASURED AT POINT OF PLACEMENT.

SLUMP: CONFORM TO ACI STANDARDS. SLUMP SHALL BE DETERMINED AT POINT OF PLACEMENT, A MAXIMUM OF 4" UNLESS APPROVED OTHERWISE.

CONCRETE REINFORCEMENT

ALL REINFORCEMENT SHALL CONFORM TO ASTM A-615 GRADE 60 AND MADE FROM NEW BILLETS. REINFORCEMENT TO BE WELDED SHALL CONFORM TO ASTM A-706 GRADE 60 AND BE USED ONLY ON THE APPROVAL OF THE ENGINEER OF RECORD. WELDED WIRE FABRIC (W/F) SHALL BE IN ACCORDANCE TO ASTM A-185. WIRE MESH SHALL LAP AT LEAST ONE GRID AT ENDS AND EDGES.

DETAIL REINFORCING STEEL IN ACCORDANCE WITH THE MOST CURRENT EDITION OF "ACI MANUAL OF STANDARD PRACTICE OF DETAILING REINFORCED CONCRETE STRUCTURES."

LAP CONTINUOUS REINFORCEMENT AS INDICATED IN THE STRUCTURAL DETAILS FOR THIS PROJECT. MECHANICAL SPLICES MAY BE USED WHEN APPROVED BY THE ENGINEER OF RECORD.

ANCHOR BOLTS, DOWELS AND OTHER EMBEDDED ITEMS TO BE SECURELY TIED IN PLACE PRIOR ON THE PLACEMENT OF CONCRETE.

THE FOLLOWING MINIMUM COVER SHALL BE PROVIDED FOR REINFORCEMENT UNLESS NOTED OTHERWISE ON DRAWINGS:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH
 ALL REINFORCEMENT 3" EARTH FACE

CONCRETE EXPOSED TO EARTH OR WEATHER (CAST IN FORMWORK)
 #3, #4 AND #5 BARS 1-1/2"
 #6 - #18 BARS 2"

CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND
 SLABS, WALLS AND JOISTS #11 OR SMALLER 3/4"
 BEAMS AND COLUMNS 1-1/2"

FIELD BENDING SHALL CONFORM TO THE LATEST EDITION OF ACI 301 'YIELD BENDING OR STRAIGHTENING'. BAR SIZES #3 TO #5 MAY BE FIELD BENT COLD ONCE. OTHER SIZES WILL REQUIRE REVIEW OF THE METHOD THROUGH THE ENGINEER OF RECORD. DO NOT TWIST BARS.

RETAINING WALL SECTIONS

DESCRIPTION	WIDTH (FT)	L ₁ (FT)	L ₂ (FT)	T _{WALL} (IN)	H _{MAX} (FT)	FOOTING REINFORCEMENT		WALL REINFORCEMENT		NOTES
						TRANSVERSE	CONTINUOUS	VERT	HORIZ	
10'-0" MAX HEIGHT	5'-6"	2'-0"	3'-6"	10"	10'-0"	#4 AT 10" OC TOP AND BOTTOM	(7)#4 AT TOP AND BOTTOM	#5 AT 6" OC AT SOIL FACE	#4 AT 10" OC	
8'-0" MAX HEIGHT	4'-6"	2'-0"	2'-6"	8"	8'-0"	#4 AT 10" OC TOP AND BOTTOM	(6)#4 AT TOP AND BOTTOM	#5 AT 12" OC AT SOIL FACE	#4 AT 10" OC	
6'-0" MAX HEIGHT	3'-6"	2'-0"	1'-6"	6"	6'-0"	#4 AT 10" OC TOP AND BOTTOM	(5)#4 AT TOP AND BOTTOM	#5 AT 16" OC AT SOIL FACE	#4 AT 10" OC	
4'-0" MAX HEIGHT	2'-6"	1'-0"	1'-6"	6"	4'-0"	#4 AT 10" OC TOP AND BOTTOM	(4)#4 AT TOP AND BOTTOM	#5 AT 16" OC AT SOIL FACE	#4 AT 10" OC	

DATUM: NAVD - 88
 TBM 5.6 OF THE SOUTH POMEROSA SEWER PROJECT WITH AN ELEVATION OF 2005.87 (NAVD2011) - 2009.87 (NAVD88) WAS USED FOR THE VERTICAL DATUM FOR THIS MAP.

NO.	DATE	BY	REVISIONS
3	08/22/20	JMH	REVISED PLANS
2	08/14/18	JPP	REVISED PLANS
1	08/12/16	JPP	ORIGINAL PREPARATION

SCALE:		PROJ #:	13-1166
HORIZONTAL:	N/A	DATE:	08/23/20
VERTICAL:	N/A	DRAWN:	JDK
		REVIEWED:	TRW

IWCE
 WILFRED CORLETT III REGISTERED
 2528 NORTH SULLIVAN ROAD
 SPOKANE VALLEY, WA 99216
 PH: 509-895-2877 FAX: 509-895-0277

**SPOKANE VALLEY PAINTED HILLS PRD
 RETAINING WALL SECTIONS
 DISHMAN-MICA RD.
 SPOKANE VALLEY, WA**

**PLANS
 NOT APPROVED
 BY AGENCY**

City of Spokane Valley
 Project/Permit No.:
 SUB-2016-0001
 (Subdivision)
 FPD-2016-0007
 (Flood Plain Development)
 EDR-2016-0006
 (Engineered Grading)

City of Spokane Valley
 Development Engineering

Reviewed: _____
 Rev. Sheet title - Path: _____

Not Reviewed
 Reviewed for Conformance to Street Standards and Accepted per Chapter 1.2
 Date Accepted: _____
 Acceptance Comments: _____

**SHEET
 C6.0**

JOB NUMBER
13-1166

SE₁, SEC. 33, T. 25N., R. 44E., W.M.
 SW₃, SEC. 34, T. 25N., R. 44E., W.M.
 NE₁, SEC. 4, T. 24N., R. 44E., W.M.



$f'_c = 3000\text{psi}$

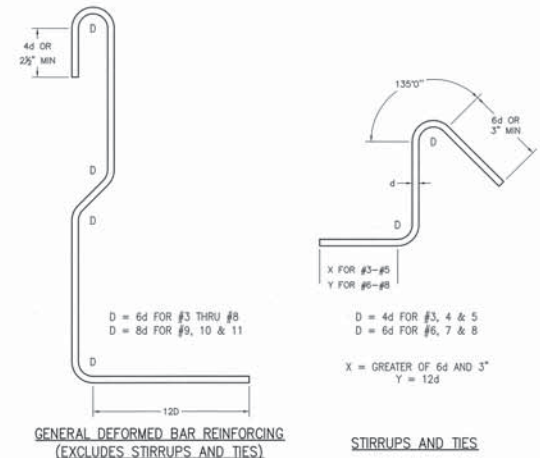
BAR SIZE	DEVELOPMENT LENGTH			LAP SPLICE		
	TENSION		COMPRESSION	TENSION		COMPRESSION
	TOP BARS	OTHER BARS	ALL BARS	TOP BARS	OTHER BARS	ALL BARS
#3	22	17	9	28	22	12
#4	29	22	11	37	29	15
#5	36	28	14	47	36	19
#6	43	33	17	56	43	23
#7	63	48	20	81	63	27
#8	72	55	22	93	72	30

NOTES:

- VALUES FOR UNCOATED REINFORCING AND NORMAL WEIGHT CONCRETE WITH CLEAR SPACING $> d_b$, CLEAR COVER $> d_b$ AND MINIMUM STIRRUPS OR TIES THROUGHOUT L_d OR CLEAR SPACING $> 2d_b$ AND CLEAR COVER $> d_b$.
- DEVELOP ALL REINFORCING IN STRUCTURAL SLABS WITH MINIMUM DEVELOPMENT LENGTH L_d .
- TOP BAR = HORIZONTAL BAR WITH MORE THAN 12" OF FRESH CONCRETE BELOW OR AS NOTED ON DOCUMENTS AS "TOP BAR".
- UNLESS NOTED OTHERWISE, ALL LAPS SHALL BE MINIMUM CLASS B OR CLASS B (TOP BARS).
- ALL TABULATED VALUES ARE IN INCHES.

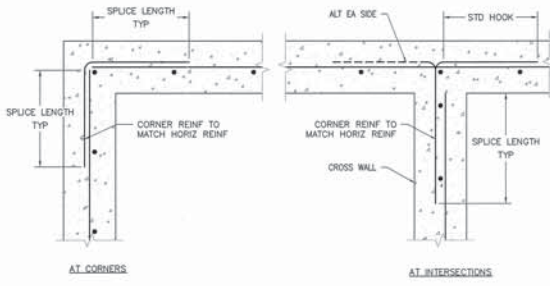
TYPICAL LAP SPLICE AND DEVELOPMENT LENGTH SCHEDULE
 NOT TO SCALE

1



TYPICAL REBAR BENDING SCHEDULE
 NOT TO SCALE

2

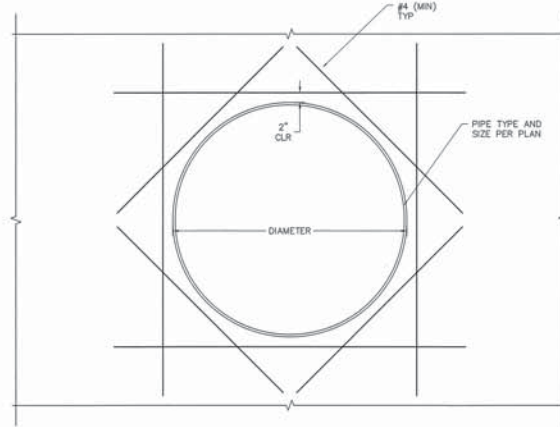


NOTES:

- FOR SPLICE LENGTHS, REFERENCE LAP SPLICE AND DEVELOPMENT LENGTH SCHEDULE.
- FOR WALL REINFORCING, REFERENCE PLAN.
- AT FOOTING AND STEM WALLS, CORNER REINFORCING TO MATCH FOOTING AND STEM WALL HORIZONTAL REINFORCING.

TYPICAL CORNER REINF AT CONCRETE WALLS
 NOT TO SCALE

3



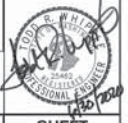
REINFORCEMENT AT PIPE PENETRATIONS
 NOT TO SCALE

4

NOTE:
 REFERENCE C6.0 FOR STRUCTURAL GENERAL NOTES AND ADDITIONAL INFO.

PLANS NOT APPROVED BY AGENCY

City of Spokane Valley Project/Permit No.:	SUB-2015-0001 (Subdivision) FDC-2015-0007 (Flood Plain Development) EOR-2015-0008 (Engineering Grading)
City of Spokane Valley Development Engineering	
Reviewer:	New Street Mix - Public
<input type="checkbox"/> Not Reviewed	
<input type="checkbox"/> Reviewed for Conformance to Street Standards and Accepted per Chapter 1.2	
Date Accepted:	Acceptance Comments



DATUM: NAVD - 88
 TBM 5.4 OF THE SOUTH PONDEROSA SEWER PROJECT
 WITH AN ELEVATION OF 2059.87 (NAVD09) - 2009-07
 (NAVD09) WAS USED FOR THE VERTICAL DATUM FOR THIS MAP.

NO.	DATE	BY	REVISIONS
3	06/22/09	JMH	REVISED PLANS
2	09-14-18	JPP	REVISED PLANS
1	08-12-18	JPP	ORIGINAL PREPARATION

SCALE:	PROJ #: 13-1106	DISCIPLINE: X
HORIZONTAL:	DATE: 06/23/20	STRUCTURAL
N/A	DRAWN: JDK	SURVEYING
VERTICAL:	REVIEWED: TRW	TRAFFIC
N/A		PLANNING
		LANDSCAPE
		OTHER



SPOKANE VALLEY PAINTED HILLS PRD RETAINING WALL DETAILS
DISHMAN-MICA RD.
SPOKANE VALLEY, WA

SHEET C6.1
 JOB NUMBER 13-1166

WCE GENERAL NOTES

- ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION OF SITE IMPROVEMENTS SHALL MEET OR EXCEED THE W807 (APWA STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION CURRENT EDITION AS MODIFIED BY THE STANDARDS AND SPECIFICATIONS SET FORTH IN THE CITY OF SPOKANE VALLEY/SPOKANE COUNTY REGULATIONS AND OTHER 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 CITY OF SPOKANE VALLEY/SPOKANE COUNTY INSPECTOR. INSPECTION SERVICES AND CONSTRUCTION CERTIFICATION TO BE PROVIDED BY DESIGNEE OF PROJECT SPONSOR/OWNER.
- 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL NOTIFY THE CITY OF SPOKANE VALLEY/SPOKANE COUNTY INSPECTOR AT LEAST 48 HOURS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITY OR CONSTRUCTION ON ANY AND ALL PUBLIC IMPROVEMENTS.
- THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE CITY OF SPOKANE VALLEY/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.
- 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO: EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.
- 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.
- ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.
- FOR WORK AFFECTING PUBLIC ROADWAYS OR IF REQUIRED BY THE CITY OF SPOKANE VALLEY/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 CITY OF SPOKANE VALLEY/SPOKANE COUNTY.
- 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.
- PER AGENCY STANDARDS THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING RECORD INFORMATION ON A SET OF RECORD DRAWINGS KEPT AT THE CONSTRUCTION SITE AND AVAILABLE TO THE CITY OF SPOKANE VALLEY/SPOKANE COUNTY INSPECTOR AT ALL TIMES.
- 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.
- 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 AREA IS STABILIZED WITH HARD SURFACE OR LANDSCAPING.
- 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 CONTAINED IN THESE PLANS.
- ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY IS SUBJECT TO THE JURISDICTION OF THE CITY OF SPOKANE VALLEY/SPOKANE COUNTY ENGINEERING DEPARTMENT STANDARD DETAILS AND SPECIFICATIONS.
- 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 CITY OF SPOKANE VALLEY/SPOKANE COUNTY.
- BASED ON REQUIREMENTS FROM CITY OF SPOKANE VALLEY/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 CITY OF SPOKANE VALLEY/SPOKANE COUNTY ENGINEER.
- NO REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT APPROVAL OF THE CITY OF SPOKANE VALLEY/SPOKANE COUNTY ENGINEERS AND NOTIFICATION OF THE ENGINEER OF RECORD.
- 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 PRE-APPROVED SOURCE/DESTINATION AND COORDINATED WITH THE CITY OF SPOKANE VALLEY/SPOKANE COUNTY DEPARTMENT OF BUILDING AND PLANNING AT ***CITY 509-720-5240; B. COUNTY 509-477-3670***. 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.
- 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 E.T.C. 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.
- 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.
- 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.
- 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 CONSIDERING 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.

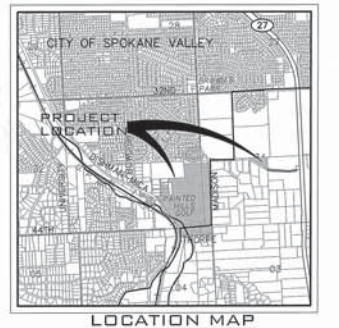
26. CONTRACTOR IS NOTIFIED THAT SOME OR ALL OF THE PAVEMENT OUTS TO INSTALL DRY UTILITIES, SEWER, WATER, STORM OR OTHER TIE-INS SHALL BE COORDINATED WITH THE CITY OF SPOKANE VALLEY/SPOKANE COUNTY AS SPECIFIC PAYMENT CUP POLICIES MAY BE IN EFFECT THAT ARE NOT NOTED ON THE PLANS.

27. THE CONTRACTOR IS NOTIFIED THAT IT IS NOT THE OWNERS, ENGINEERS, CITY'S NOR THE INSPECTION AND TESTING COMPANY'S (THE PARTIES) RESPONSIBILITY TO ANTICIPATE WHEN CONSTRUCTED ELEMENTS WILL BE READY FOR INSPECTION AND TESTING. THE CONTRACTOR IS RESPONSIBLE TO NOTIFY ALL PARTIES THAT CERTAIN CONSTRUCTED ELEMENTS ARE BEING INSTALLED AND ON WHAT DATE THEY WILL BE INSTALLED. IF SUCH FAILURE TO NOTIFY THEN RESULTS IN LACK OF INSPECTIONS AND TESTING SERVICES FOR CERTAIN ELEMENTS, THE CONTRACTOR SHOULD NOT EXPECT THAT THIS LACK OF INSPECTION AND TESTING WILL RESULT IN THE BLANKET APPROVAL OF SUCH ITEMS. THE CONTRACTOR IS NOTIFIED THAT SUBSEQUENT REMOVAL AND RECONSTRUCTION OF SUCH ELEMENTS IS TO BE BORNE BY THE CONTRACTOR AND OR THEIR SUB-CONTRACTOR PROVIDING THE SERVICE AND THE INSTALLATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE SURE THAT ALL PARTIES ARE ADEQUATELY NOTIFIED. NOTIFICATION WILL BE BY TWO MEANS FOR EACH REQUEST/OCCURRENCE THE ACCEPTABLE MEANS ARE AS FOLLOWS, EMAIL, TEXT, FAX OR PHONE. NOTIFICATION SHALL INCLUDE ELEMENT, DATE AND CONSTRUCTION START TIME. EXCESSIVE STANDBY TIME ON THE PART OF THE PARTIES MAY RESULT IN A BACK CHARGE TO THE CONTRACTOR.

SE 1/4, SEC. 33, T.25N., R.44E., W.M.
 SW 1/4, SEC. 34, T. 25N., R.44E., W.M.
 NE 1/4, SEC. 4, T.24N., R.44E., W.M.

PAINTED HILLS WATER PLANS

LOCATED IN A PORTION OF
 SE 1/4, SEC. 33, T.25N., R. 44E., W.M.
 CITY OF SPOKANE VALLEY, WA



SITE PLAN VIEW
 SCALE: 1"=300'

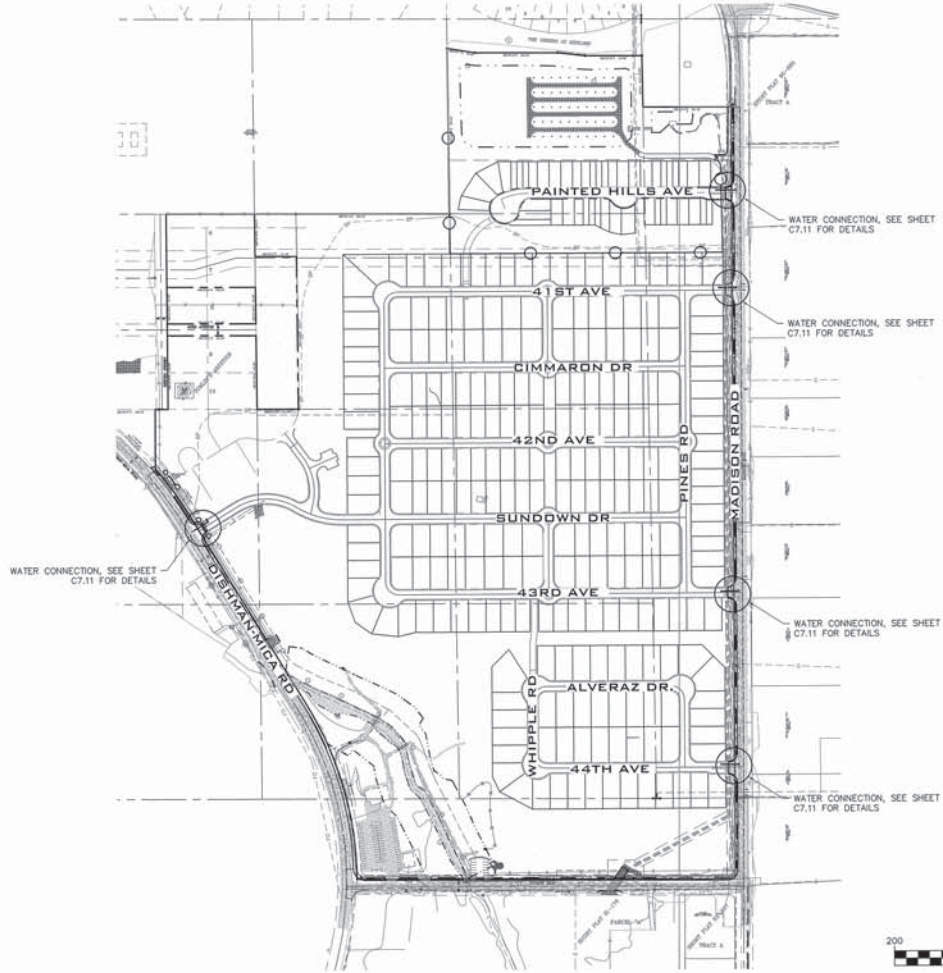
- SEWER**
 SPOKANE COUNTY ENVIRONMENTAL SERVICES
 1028 W BROADWAY AVE
 SPOKANE, WA 99260
 PHONE: 477-7180
 CONTACT: COLIN DENNER
- WATER**
 SPOKANE COUNTY WATER DISTRICT #3
 1225 N YARDLEY ST
 SPOKANE, WA 99212
 PHONE: 536-0121
 CONTACT: JUSTIN VAN DYKE
- FIRE**
 SPOKANE VALLEY FIRE DEPT.
 2120 N WILBUR RD
 SPOKANE, WA 99206
 PHONE: 928-1700
 CONTACT: MIKE MAKELA
- POWER**
 INLAND POWER & LIGHT CO.
 10100 W HALLETT RD
 SPOKANE, WA 99224
 PHONE: 509-789-4291
 CONTACT: CONNIE NELSON
- ROADWAYS**
 CITY OF SPOKANE VALLEY
 10210 E SPRAGUE
 SPOKANE, WA 99206
 PHONE: 720-5008
- TELEPHONE**
 CENTURY LINK
 604 N COLUMBUS ST
 SPOKANE, WA 99202
 PHONE: 835-4604
 CONTACT: MARK WELCH
- INSPECTION**
 I.P.E.C.
 3012 N SULLIVAN ROAD, STE D
 SPOKANE, WA 99206
 PHONE: 209-6262
 CONTACT: PAUL FRITH
- SEWER**
 SPOKANE REGIONAL HEALTH
 1101 W COLLEGE AVE
 SPOKANE, WA 99260
 PHONE: 324-1578
 CONTACT: PAUL SAVAGE
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 CONTACT: PAUL SAVAGE
- POWER**
 INLAND POWER & LIGHT CO.
 10100 W HALLETT RD
 SPOKANE, WA 99224
 PHONE: 509-789-4291
 CONTACT: CONNIE NELSON
- ROADWAYS**
 CITY OF SPOKANE VALLEY
 10210 E SPRAGUE
 SPOKANE, WA 99206
 PHONE: 720-5008
- TELEPHONE**
 CENTURY LINK
 604 N COLUMBUS ST
 SPOKANE, WA 99202
 PHONE: 835-4604
 CONTACT: MARK WELCH
- INSPECTION**
 I.P.E.C.
 3012 N SULLIVAN ROAD, STE D
 SPOKANE, WA 99206
 PHONE: 209-6262
 CONTACT: PAUL FRITH
- SEWER**
 SPOKANE REGIONAL HEALTH
 1101 W COLLEGE AVE
 SPOKANE, WA 99260
 PHONE: 324-1578
 CONTACT: PAUL SAVAGE
- WATER**
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- ROADWAYS**
 CITY OF SPOKANE VALLEY
 10210 E SPRAGUE
 SPOKANE, WA 99206
 PHONE: 720-5008
- TELEPHONE**
 CENTURY LINK
 60

SE 1/4, SEC. 33, T.25N., R.44E., W.M.
 SW 1/4, SEC. 34, T.25N., R.44E., W.M.
 NE 1/4, SEC. 4, T.24N., R.44E., W.M.



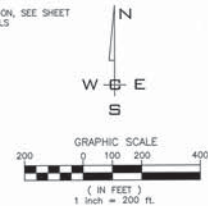
SPOKANE COUNTY WATER DISTRICT #3 NOTES

- WATER MAINS SHALL BE CLASS 50 DUCTILE IRON PIPE, UPON PRIOR WRITTEN APPROVAL, C-300, CLASS 150 PVC PIPE MAY BE USED WITHIN PUBLIC RIGHTS-OF-WAY WHERE SOIL CONDITIONS ARE SUCH THAT IMPORTATION OF BEDDING MATERIAL IS UNNECESSARY; AND WHERE THE PIPE DIAMETER IS EQUAL TO OR LESS THAN 8-INCHES.
- ALL CONSTRUCTION MATERIAL AND PRACTICES SHALL BE IN ACCORDANCE WITH SPOKANE COUNTY REQUIREMENTS AS APPROVED IN THE DISTRICT'S COMPREHENSIVE PLAN DATED SEPTEMBER 3, 2008.
 - PIPE RESTRAINT INCLUDES THE USE OF ROMAC "GRIP" RING ACCESSORY NITS ON ALL MJ FITTINGS IN ADDITION TO FIELD "LOK" GASKETS IN ACCORDANCE WITH THE DUCTILE IRON PIPE RESTRAINT TABLE AND CONCRETE THRUST BLOCKS.
- CONSTRUCTION SHALL BE COORDINATED WITH SPOKANE COUNTY A PRE-CONSTRUCTION MEETING WITH SPOKANE COUNTY REPRESENTATIVES SHALL BE HELD PRIOR TO STARTING CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR HYDROSTATIC PRESSURE TESTING AND BACTERIOLOGICAL WATER QUALITY TESTING OF NEW WATER MAINS. WATER MAINS SHALL BE PRESSURE TESTED AT 150 PSI AND CHLORINATED PER AWWA C-651.
- ALL REQUIRED WATER LINE SHUTDOWNS SHALL BE COORDINATED WITH SPOKANE COUNTY. ALL CUSTOMERS AFFECTED BY THE SHUTDOWN SHALL BE NOTIFIED BY THE CONTRACTOR 24 HOURS IN ADVANCE.
- ALL PVC PIPE SHALL HAVE A #12 GAUGE INSULATED SINGLE STRAND COPPER TRACER WIRE. THE TRACER WIRE IS TO BE INSTALLED ON MAIN LINE GATE VALVES FROM VALVE TO VALVE AS PER SPOKANE COUNTY STANDARD GATE VALVE DETAIL. NOTE: DO NOT INSTALL TRACER WIRE ON HYDRANT VALVES.
- DUCTILE IRON PIPE SHALL HAVE THREE (3) CONTINUITY RIDGES INSTALLED PER EACH JOINT.
- ALL BACKFILL MATERIAL SHALL BE DRY AND NOT FROZEN.
- ALL INDIVIDUAL WATER METER BOXES/VAULTS SHALL BE LOCATED WITHIN THE PUBLIC RIGHT OF WAY AND/OR UTILITY EASEMENT. TYPICALLY, NO WATER METER BOXES/VAULTS ARE TO BE LOCATED WITHIN DRIVEWAYS. PLACEMENT OF WATER METER BOXES/VAULTS ARE TO BE WITHIN LANDSCAPED AREAS.
- A MINIMUM OF 10' HORIZONTAL SEPARATION MUST BE MAINTAINED BETWEEN WATER SERVICES AND ELECTRICAL POWER TRANSFORMERS.
- ELECTRICAL POWER & GAS LINES MUST BE A MINIMUM OF 5'-0" AWAY FROM FIRE HYDRANTS.
- ALL PROPERTY LINES AND RIGHTS-OF-WAY SHALL BE STAKED PRIOR TO MAIN INSTALLATION.
- NO WATER METER BOXES/VAULTS SHALL BE LOCATED WITHIN DRAINAGE AREAS SUCH AS GRASSY 208 (SWALE AREAS) WHERE THEY MAY FILL WITH WATER.
- FINAL LOCATION OF WATER MAIN METER SETTINGS SHALL BE DETERMINED BY SPOKANE COUNTY.
- WATER & SEWER MAIN SEPARATION
 - HORIZONTAL SEPARATION BETWEEN A WATER MAIN AND A SEWER MAIN MUST BE A MINIMUM OF 10 FEET.
 - VERTICAL SEPARATION BETWEEN A WATER MAIN AND A SEWER MAIN MUST BE A MINIMUM OF 18 INCHES, IF VERTICAL SEPARATION IS NOT ATTAINABLE SEE NOTE C2.
 - PLEASE SEE SPECIFIC NOTES AS FOLLOWS
 - IF THE SEWER MAIN IS MADE OF THE SAME OR BETTER QUALITY MATERIAL AS THE WATER MAIN, THEN NO CASING IS REQUIRED.
 - IF THE SEWER MAIN IS NOT MADE OF EQUAL OR BETTER MATERIALS, OR PROPER SEPARATION CANNOT BE MAINTAINED THEN IT MUST BE PLACED INSIDE A CASING TO BE APPROVED BY SPOKANE COUNTY, AND EXTEND 10 FEET IN EACH DIRECTION WHERE THE SEWER MAIN CROSSES THE WATER MAIN.
- PRE-CAST CONCRETE THRUST BLOCKS MAY BE USED AS MANUFACTURED BY WHITE BLOCK OR APPROVED EQUAL.
- SIZE OF THRUST BLOCKS: SMALL 5" X 16" X 24" LARGE 6" X 24" X 36"
- COMPACTION BEHIND INSTALLED THRUST BLOCKS SHALL BE A MINIMUM OF 90% OR BETTER.
- AIR VACUUM RELIEF VALVE(S) SHALL BE INSTALLED AS DIRECTED BY SPOKANE COUNTY PER FIELD ELEVATION CONDITIONS. THESE LOCATIONS MAY OR NOT BE AS SHOWN ON THE APPROVED WATER SYSTEM PLAN.
- A MINIMUM DISTANCE OF 5'-0" MUST BE MAINTAINED FROM CHANGES IN FINAL GRADE ELEVATION TO ALL WATER SYSTEM APPURTENANCES (IE, MAINS, FIRE HYDRANTS, VALVE BOXES, WATER METERS, VAULTS ETC.)



OVERALL WATER PLAN

SCALE: 1"=200'



LEGEND

- PROPERTY LINE
- PROPOSED WATER LINE
- ▲ PROPOSED FIRE HYDRANT
- PROPOSED WATER METER

WATER NOTES

- ALL PIPES AND APPURTENANCES SHALL BE DUCTILE IRON.
- ALL VALVES AND TEES SHALL HAVE MECHANICAL JOINT FITTINGS AND BE FULLY RESTRAINED.
- WATER SERVICES SHALL BE 1" DIAMETER, TYPE "C" COPPER, AND SHALL EXTEND INSIDE THE PROPERTY LINE PER DETAIL SHEET C7.2. SEE RESTRAINED JOINT TABLE AND DEFLECTION TABLE.

▲ DATUM: NAVD - 88

10M S&S OF THE SOUTH FORK SPANISH RIVER PROJECT WITH AN ELEVATION OF 2005.87 (NAVD09) = 2009.87 (NAVD88) WAS USED FOR THE VERTICAL DATUM FOR THIS MAP.

NO.	DATE	BY	REVISIONS
3	06-22-20	JMH	REVISED PLANS
2	08-14-18	JPP	REVISED PLANS
1	08-12-16	JPP	ORIGINAL PREPARATION

SCALE:	PROJ #: 13-1166	DATE: 06/23/20
HORIZONTAL: 1"=200'	DRAWN: STT	REVIEWED: TRW
VERTICAL: N/A		

IWCE
 WHIPPLE CONSULTING ENGINEERS
 2528 NORTH SULLIVAN ROAD
 SPOKANE VALLEY, WA 83819
 PH: 509-884-2877 FAX: 509-884-0227

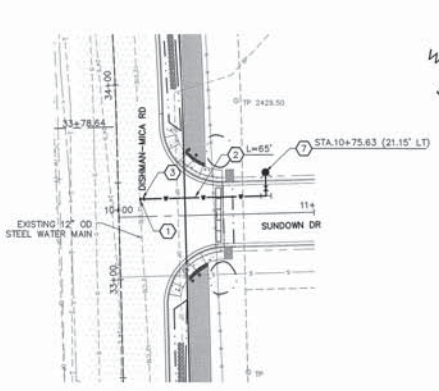
**SPOKANE VALLEY PAINTED HILLS PRD
 OVERALL WATER PLAN
 DISHMAN-MICA RD.
 SPOKANE VALLEY, WA**

PLANS NOT APPROVED BY AGENCY

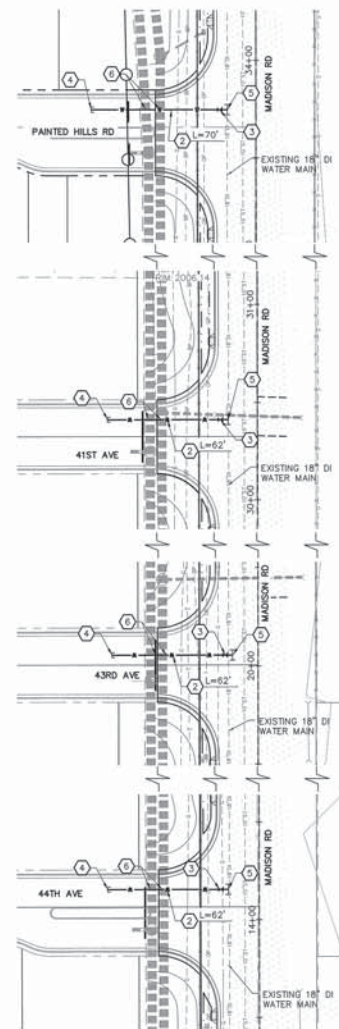
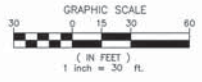


SHEET C7.1
JOB NUMBER 13-1166

SE 1/4, SEC. 33, T. 25 N., R. 44 E., W. M.
 SW 1/4, SEC. 34, T. 25 N., R. 44 E., W. M.
 NE 1/4, SEC. 4, T. 24 N., R. 44 E., W. M.



WATER CONNECTION DETAIL
 SCALE: 1"=30'



WATER CONNECTION DETAILS
 SCALE: 1"=30'

LEGEND

—	PROPERTY LINE
—	PROPOSED WATER LINE
▲	PROPOSED FIRE HYDRANT
■	PROPOSED WATER METER

- WATER NOTES**
1. ALL PIPES AND APPURTENANCES SHALL BE DUCTILE IRON.
 2. ALL VALVES AND TEES SHALL HAVE MECHANICAL JOINT FITTINGS AND BE FULLY RESTRAINED.
 3. WATER SERVICES SHALL BE 1" DIAMETER, TYPE "C" COPPER, AND SHALL EXTEND INSIDE THE PROPERTY LINE PER DETAIL SHEET C7.2. SEE RESTRAINED JOINT TABLE AND DEFLECTION TABLE.

CONSTRUCTION NOTES

- 1 SADDLE TAP EXISTING 12" WATER MAIN WITH 8" TAP PER WATER DISTRICT #3 STANDARDS AND SPECIFICATIONS. FITTINGS TO BE SUPPLIED AND INSTALLED BY SPOKANE COUNTY WATER DISTRICT #3. INSTALLATION FEE TO BE PAID FOR BY THE DEVELOPER. CONTRACTOR TO PROVIDE EXCAVATION, BACKFILL, AND COMPACTION. PATCH ASPHALT PER INLAND NORTHWEST REGIONAL PAVEMENT CUT POLICY.
- 2 PROVIDE AND INSTALL 8" DI WATER MAIN PER SPOKANE COUNTY WATER DISTRICT #3 STANDARDS AND SPECIFICATIONS. SEE PLAN FOR DETAILS.
- 3 PROVIDE AND INSTALL 8" GATE VALVE PER SPOKANE COUNTY WATER DISTRICT #3 STANDARDS AND SPECIFICATIONS. FITTINGS TO BE SUPPLIED AND INSTALLED BY SPOKANE COUNTY WATER DISTRICT #3. INSTALLATION FEE TO BE PAID FOR BY THE DEVELOPER.
- 4 PROVIDE AND INSTALL 8" END CAP AND TEMPORARY FLUSHER BLOWOFF ASSEMBLY PER WATER DISTRICT #3 STANDARDS AND SPECIFICATIONS. SEE SHEET C7.2 FOR FLUSHER BLOWOFF ASSEMBLY DETAIL. MARKER POST PAINTED BLUE WITH TRACER WIRE.
- 5 SADDLE TAP EXISTING 18" WATER MAIN WITH 8" TAP PER WATER DISTRICT #3 STANDARDS AND SPECIFICATIONS. FITTINGS TO BE SUPPLIED AND INSTALLED BY SPOKANE COUNTY WATER DISTRICT #3. INSTALLATION FEE TO BE PAID FOR BY THE DEVELOPER. CONTRACTOR TO PROVIDE EXCAVATION, BACKFILL, AND COMPACTION. PATCH ASPHALT PER INLAND NORTHWEST REGIONAL PAVEMENT CUT POLICY.
- 6 LOWER WATER MAIN TO MAINTAIN REQUIRED SEPARATION PER SPOKANE COUNTY WATER DISTRICT #3. SEE DETAIL 3 PER SHEET C7.2.
- 7 PROVIDE AND INSTALL 8"x6" MJ TEE, 6" GATE VALVE, AND 6" FIRE HYDRANT ASSEMBLY PER SPOKANE COUNTY WATER DISTRICT #3 STANDARDS AND SPECIFICATIONS. FITTINGS TO BE SUPPLIED AND INSTALLED BY CONTRACTOR. SEE SHEET C7.2 FOR DETAIL.

NOTE:
 THRUST BLOCKING REQUIRED AT ALL BENDS, TEES, WYES, CAPS, AND PLUGS PER SPOKANE COUNTY WATER DISTRICT #3 STANDARDS, SEE TABLE SHEET C7.2.

⚡ DATUM: NAVD - 88
 TEM 5-4 OF THE SOUTH PONDEROSA SEWER PROJECT
 WITH AN ELEVATION OF 2009.87 (NAVD2011 - 2009.87)
 (UNADJUSTED) WAS USED FOR THE VERTICAL DATUM FOR THIS
 MAP.

NO.	DATE	BY	REVISIONS
3	06-22-20	JMH	REVISED PLANS
2	06-14-18	JPP	REVISED PLANS
1	08-12-18	JPP	ORIGINAL PREPARATION

SCALE:	PROJ #:	13-1166	<input checked="" type="checkbox"/> CIVIL <input type="checkbox"/> STRUCTURAL <input type="checkbox"/> SURVEYING <input type="checkbox"/> TRAFFIC <input type="checkbox"/> PLANNING <input type="checkbox"/> LANDSCAPE <input type="checkbox"/> OTHER
HORIZONTAL:	DATE:	06/23/20	
VERTICAL:	DRAWN:	JPP/BTT	
	REVIEWED:	TRW	

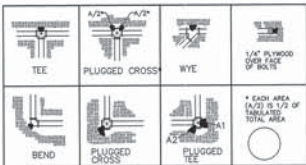
WCE
 WHITFIELD CONSULTING ENGINEERS
 1808 NORTH BULLWAGON ROAD
 SPOKANE VALLEY, WA 99216
 PH: 509-826-2017 FAX: 509-826-2027

**SPOKANE VALLEY PAINTED HILLS PRD
 WATER CONNECTION DETAILS**
**DISHMAN-MICA RD.
 SPOKANE VALLEY, WA**

PLANS
 NOT APPROVED
 BY AGENCY



**SHEET
 C7.11**
 JOB NUMBER
 13-1166



BEARING AREA OF THRUST BLOCKS IN SQ. FT. (HORIZONTAL BENDS)

FITTING	TEE	WYE	BEND	PLUGGED CROSS
4	1.0	1.4	1.9	1.4
6	2.1	3.0	4.3	3.0
8	3.6	5.3	7.8	5.4
10	5.9	8.9	11.8	8.4
12	8.5	12.0	17.0	12.0
14	11.9	16.3	23.0	16.3
16	16.0	21.0	30.0	21.0
18	19.0	27.0	36.0	27.0
20	23.0	33.0	45.0	33.0
24	34.0	48.0	66.0	48.0

SWD3 - THRUST BLOCKS

THRUST BLOCK NOTES

- KEEP CONCRETE CLEAR OF JOINT AND JOINT ACCESSORIES
- CONCRETE THRUST BLOCKING SHALL BE POURED AGAINST UNDISTURBED EARTH.
- REQUIRED VOLUMES OR BEARING AREAS AT FITTING SHALL BE AS INDICATED BELOW, ADJUSTED, IF NECESSARY, TO CONFORM TO THE TEST PRESSURE(S) AND ALLOWABLE BEARING STRESSES AS STATED IN THE SPECIFICATIONS.
- THRUST BLOCK VOLUMES FOR VERTICAL BENDS HAVING UPWARD RESULTANT THRUSTS SHALL BE AS DESCRIBED IN STANDARD DETAIL W-7.
- BEARING AREAS FOR HORIZONTAL BEND THRUST BLOCKS ARE BASED ON TEST PRESSURE OF 2000 LBS/SQ. FT. TO COMPUTE SOIL BEARING STRESS OF 150 P.S.I.G. AND AN ALLOWABLE SOIL BEARING STRESS, MULTIPLY TABLE VALUES BY THE FACTOR $(1.333/P)$, WHERE: P = ACTUAL TEST PRESSURE, P.S.I.G. $5P =$ ACTUAL SOIL BEARING PRESSURE, P.S.F..
- THRUST BLOCKS FOR VERTICAL BENDS HAVING DOWNWARD RESULTANT THRUSTS SHALL BE THE SAME AS FOR HORIZONTAL BENDS.
- BEARING AREAS, VOLUMES, AND SPECIAL BLOCKING DETAILS SHOWN ON PLANS TAKE PRECEDENCE OVER THIS STANDARD.
- BEARING AREA OF THRUST BLOCK SHALL NOT BE LESS THAN 1.0 SQ. FT.
- VERTICAL BENDS THAT REQUIRE A THRUST BLOCK VOLUME EXCEEDING 5 CUBIC YARDS REQUIRE SPECIAL BLOCKING DETAILS - SEE PLANS FOR VOLUMES SHOWN TO LEFT OF SOLID LINE IN TABLE.
- TEST PRESSURES ARE DESCRIBED IN THE NOTES.
- CONSULT SOIL ENGINEER FOR ACTUAL SOIL BEARING PRESSURE.

BASED ON 75% OF MAXIMUM DEFLECTION BY SPECIFICATION

SIZE OF PIPE IN.	MAX. PERMISSIBLE DEFLECTION PER LENGTH - IN.	APPROX. RADIUS OF CURVE PROVIDED BY SUCCESSION OF JOINTS - FT.
18"	1/8"	20'
24"	1/4"	20'
30"	3/8"	20'
36"	1/2"	20'
42"	5/8"	20'
48"	3/4"	20'
54"	7/8"	20'
60"	1"	20'

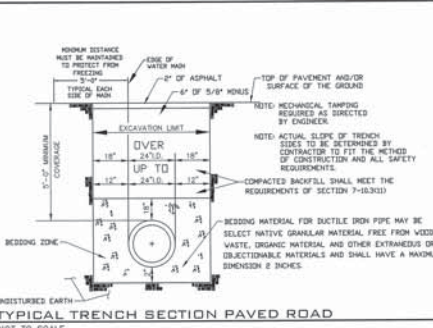
DEFLECTION TABLE

MAXIMUM PERMISSIBLE DEFLECTION IN LAYING MECHANICAL JOINT PIPE

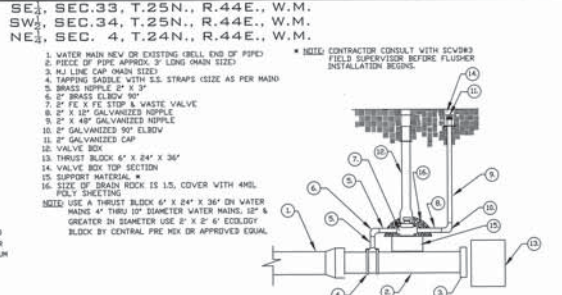
PIPE DIAMETER	VOLUME OF THRUST BLOCKING (SQ. FT.)			
	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
6"	2.262	2.862	1.459	0.733
8"	3.097	4.223	2.510	1.281
10"	3.685	7.408	3.776	1.897
12"	19.353	10.474	4.340	2.683

NOTE: THRUST BLOCK VOLUME BASED ON 4000 lbs./cu. yd. FOR CONCRETE AND A HYDRAULIC TEST PRESSURE OF 180 p.s.i. THRUST BLOCK VOLUMES SHALL BE PROPORTIONALLY ADJUSTED FOR DIFFERENT HYDRAULIC TEST PRESSURES.

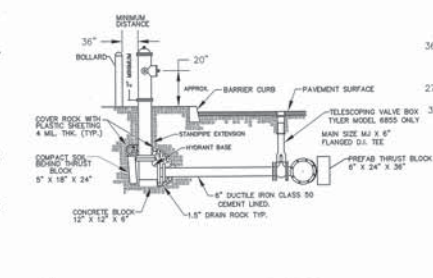
VERTICAL THRUST BLOCKING TABLE



TYPICAL TRENCH SECTION PAVED ROAD



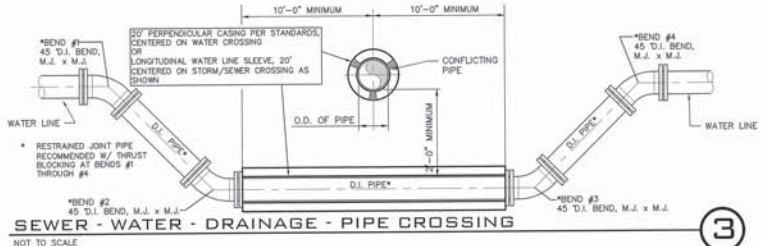
FLUSHER-BLOWOFF ASSEMBLY



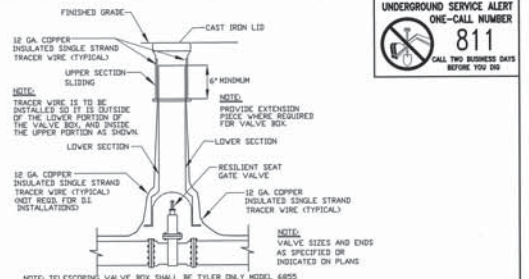
6" FIRE HYDRANT SETTING

- NOTES:**
- All fire hydrants shall be 6" compression type, breakaway section at ground level. 1 1/4" main valve opening, two 1/2" hose nozzles, and one 1/2" pumper nozzle, threads to conform to national standard thread fire hose coupling, with 6" N.J. connection as manufactured by H & H, Waterloo, US Pipe Manufacturing Co.
 - The Concrete Block (shown below on detail) shall have a 12" x 12" base and a minimum 3" thickness.
 - All valves shall have a resilient seat non-rising stem, 2" operating nut, 67 L M.J.D. and shall meet A.W.W.A. standards at working pressure of 150 lbs.
 - Fire hydrants are to be installed per Spokane County Water District #3 requirements.
 - Distances from main to hydrant in excess of one length of pipe shall be made utilizing FIELD JOINTS and pipe as manufactured by U.S. Pipe or approved equal.
 - Protective bollards may be required as directed by the Spokane County Water District #3.
 - M.J Accessories for valve and hydrant shall be RDMAC Grip Rings.
 - Minimum 5 feet bury on hydrant.
 - Precast Thrust Blocks need 95% Compaction between Thrust Block & Undisturbed earth.
 - Fire Hydrant is to be Painted Yellow (As Per Local Fire District Specs).
 - IF THE ISOLATION VALVE FOR THE FIRE HYDRANT MUST BE A MINIMUM OF 4 FEET FROM THE FLANGE OF THE HYDRANT BASE.
 - CENTER LINE OF FIRE HYDRANT MUST BE A MINIMUM OF 2 FEET BEHIND THE CURB OR SIDEWALK.

NOTE: CONTRACTOR TO TAKE NOTE, WHERE WATER LINES CONFLICT WITH STORM AND SEWER PIPE, THE WATER LINES SHALL BE ROUTED UNDER SUCH PIPE(S) AS SHOWN. CONTRACTOR TO SUBMIT SHOP DRAWING FOR APPROVAL PRIOR TO INSTALLATION.



SEWER - WATER - DRAINAGE - PIPE CROSSING



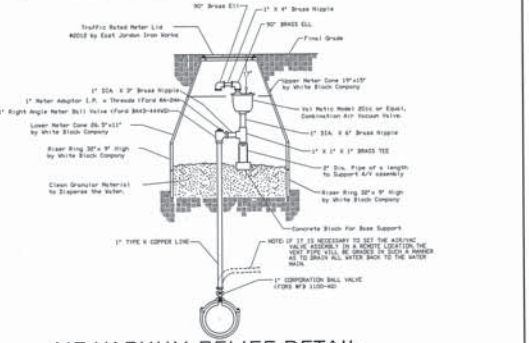
TYPICAL WATER MAIN GATE VALVE

NOT TO SCALE

FITTING TYPE	NUMBER OF 18'-FT. PIPE LENGTHS REQUIRED WITH RESTRAINED JOINTS IN EACH DIRECTION:		
	6" D.I. MAIN	8" D.I. MAIN	12" D.I. MAIN
90° BENDS, TEE BRANCHES, VALVES, AND DEAD ENDS	3	4	5
45° BENDS	1	1	2
22 1/2° BENDS	1	1	1
11 1/4° BENDS	1	1	1

NOTES:
 D.I. STATIC PRESSURE = 50 P.S.I.
 D.I. TEST PRESSURE = 180 P.S.I. (200 P.S.I. USED FOR CALCS.)
 TABLE WAS DEVELOPED USING E.B.B.A. IRON RESTRAINT LENGTH CALCULATOR. (VERSION 5.0.2 WITH THE FOLLOWING ASSUMPTIONS:
 S.F. = 2.5
 SOIL TYPE = GM
 TRENCH TYPE = 5
 DEPTH = 5 FEET

RESTRAINED JOINT TABLE



AIR-VACUUM RELIEF DETAIL

NOT TO SCALE

PLANS NOT APPROVED BY AGENCY



DATUM: NAVD - 88

THIS IS ONE OF THE SOUTH PONDEROSA SEWER PROJECT WITH AN ELEVATION OF 2000 FT. (NAVD) - 2000 FT. (NAVD) WAS USED FOR THE VERTICAL DATUM FOR THIS MAP.

NO.	DATE	BY	REVISIONS
1	06-22-20	JMH	REVISED PLANS
2	06-14-18	JPP	REVISED PLANS
1	06-12-16	JPP	ORIGINAL PREPARATION

SCALE:	PROJ #: 13-1166	<table border="1"> <tr> <td>DESIGN</td> <td>STRUCTURAL</td> <td>PLANNING</td> <td>LANDSCAPE</td> <td>OTHER</td> </tr> <tr> <td>✓</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	DESIGN	STRUCTURAL	PLANNING	LANDSCAPE	OTHER	✓				
DESIGN	STRUCTURAL		PLANNING	LANDSCAPE	OTHER							
✓												
HORIZONTAL:	DATE: 06/23/20											
VERTICAL:	DRAWN: JPP											
	REVIEWED: TRW											



SPokane Valley Painted Hills PRD
WATER NOTES & DETAILS
DISHMAN-MICA RD.
SPokane Valley, WA

SHEET C7.2
 JOB NUMBER 13-1166

WCE GENERAL NOTES

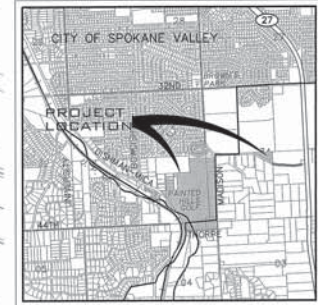
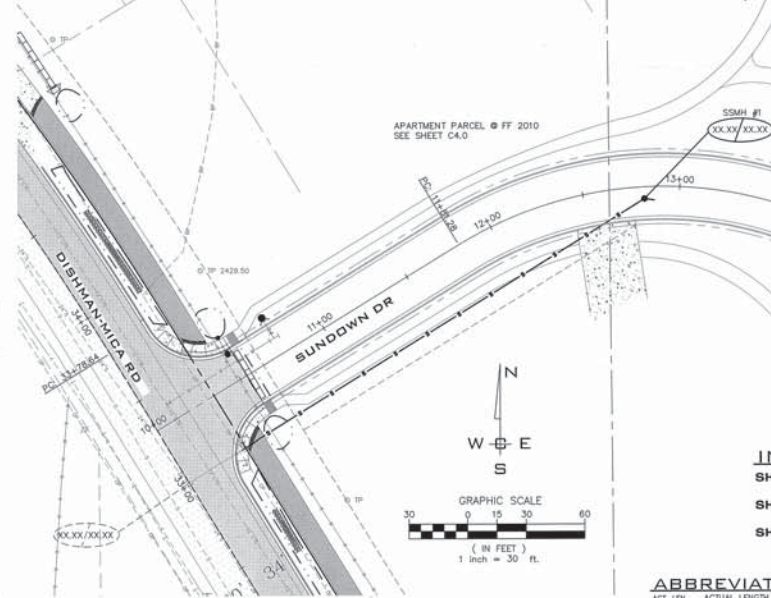
- ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION OF SITE IMPROVEMENTS SHALL MEET OR EXCEED THE MOST APPROPRIATE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION CURRENT EDITION AS MODIFIED BY THE STANDARDS AND SPECIFICATIONS SET FORTH IN THE CITY OF SPOKANE VALLEY/SPOKANE COUNTY REGULATIONS AND OTHER 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 CITY OF SPOKANE VALLEY/SPOKANE COUNTY INSPECTOR. INSPECTION SERVICES AND CONSTRUCTION CERTIFICATION TO BE PROVIDED BY DESIGNEE OF PROJECT SPONSOR/OWNER.
- 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL NOTIFY THE CITY OF SPOKANE VALLEY/SPOKANE COUNTY INSPECTOR AT LEAST 48 HOURS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITY OR CONSTRUCTION ON ANY AND ALL PUBLIC IMPROVEMENTS.
- THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE CITY OF SPOKANE VALLEY/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 UTILITY SERVICE.
- 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO: EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.
- 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.
- ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.
- FOR WORK AFFECTING PUBLIC ROADWAYS OR IF REQUIRED BY THE CITY OF SPOKANE VALLEY/SPOKANE COUNTY, THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL AND PAVING 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 CITY OF SPOKANE VALLEY/SPOKANE COUNTY.
- 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.
- PER AGENCY STANDARDS THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING RECORD INFORMATION ON A SET OF RECORD DRAWINGS KEPT AT THE CONSTRUCTION SITE AND AVAILABLE TO THE CITY OF SPOKANE VALLEY/SPOKANE COUNTY INSPECTOR AT ALL TIMES.
- 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.
- 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.
- 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.
- ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY IS SUBJECT TO THE JURISDICTION OF THE CITY OF SPOKANE VALLEY/SPOKANE COUNTY ENGINEERING DEPARTMENT STANDARD DETAILS AND SPECIFICATIONS.
- 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 CITY OF SPOKANE VALLEY/SPOKANE COUNTY.
- BASED ON REQUIREMENTS FROM CITY OF SPOKANE VALLEY/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 CITY OF SPOKANE VALLEY/SPOKANE COUNTY ENGINEER.
- NO REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT APPROVAL OF THE CITY OF SPOKANE VALLEY/SPOKANE COUNTY ENGINEERS AND NOTIFICATION OF THE ENGINEER OF RECORD.
- 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 OF SPOKANE VALLEY/SPOKANE COUNTY DEPARTMENT OF BUILDING AND PLANNING AT 509-792-5440 & COUNTY 509-477-3075. 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.
- 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 E.T.A.L. 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 OR A CHANGE ORDER OR OTHER MECHANISM.
- 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.
- 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.
- 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.
- ALL FIRE LINES MUST BE INSTALLED BY AN APPROVED LEVEL 1 CONTRACTOR OR A LEVEL 3 FIRE PROTECTION CONTRACTOR.
- CONTRACTOR IS NOTIFIED THAT SOME OR ALL OF THE PAVEMENT CUTS TO INSTALL DRY UTILITIES, SEWER, WATER, STORM OR OTHER TIE-IN'S SHALL BE COORDINATED WITH THE CITY OF SPOKANE VALLEY/SPOKANE COUNTY AS SPECIFIC PAVEMENT CUT POLICIES MAY BE IN EFFECT THAT ARE NOT NOTED ON THE PLANS.
- THE CONTRACTOR IS NOTED THAT IT IS NOT THE OWNERS, ENGINEERS, CITY'S NOR THE INSPECTION AND TESTING COMPANY'S (THE PARTIES) RESPONSIBILITY TO ANTICIPATE WHEN CONSTRUCTED ELEMENTS WILL BE READY FOR INSPECTION AND TESTING. THE CONTRACTOR IS RESPONSIBLE TO NOTIFY ALL PARTIES THAT CERTAIN CONSTRUCTED ELEMENTS ARE BEING INSTALLED AND ON WHAT DATE THEY WILL BE INSTALLED. IF SUCH FAILURE TO NOTIFY THEN RESULTS IN LACK OF INSPECTIONS AND TESTING SERVICES FOR CERTAIN ELEMENTS, THE CONTRACTOR SHOULD NOT EXPECT THAT THIS LACK OF INSPECTION AND TESTING WILL RESULT IN THE BLANKET APPROVAL OF SUCH ITEM. THE CONTRACTOR IS NOTIFIED THAT SUBSEQUENT REMOVAL AND RECONSTRUCTION OF SUCH ELEMENTS IS TO BE BORNE BY THE CONTRACTOR AND/OR THEIR SUB-CONTRACTOR PROVIDING THE SERVICE AND THE INSTALLATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE SURE THAT ALL PARTIES ARE ADEQUATELY NOTIFIED, NOTIFICATION WILL BE BY TWO MEANS FOR EACH REQUEST/OCCURRENCE THE ACCEPTABLE MEANS ARE AS FOLLOWS, EMAIL, TEXT, FAX OR PHONE. NOTIFICATION SHALL INCLUDE ELEMENT, DATE AND CONSTRUCTION START TIME. EXCESSIVE STANDBY TIME ON THE PART OF THE PARTIES MAY RESULT IN A BACK CHARGE TO THE CONTRACTOR.

SE 1/4, SEC. 33, T.25N., R.44E., W.M.
SW 1/4, SEC. 34, T. 25N., R. 44E., W.M.
NE 1/4, SEC. 4, T.24N., R.44E., W.M.

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

PAINTED HILLS SEWER PLANS

LOCATED IN A PORTION OF
SE 1/4, SEC. 33, T.25N., R. 44E., W.M.
CITY OF SPOKANE VALLEY, WA



SEWER PLAN
SCALE: 1"=30'

DEVELOPER'S APPROVAL _____ **DATE** _____
THIS CONSTRUCTION PLAN EXPIRES ONE (1) YEAR FROM DATE ON PLAN*

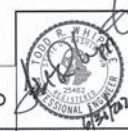
INDEX TO PLAN SHEETS

SHEET NO. C8.0	SEWER PLAN COVER
SHEET NO. C8.1	SUNDOWN RD SEWER P&P
SHEET NO. C8.2	SEWER NOTES & DETAILS

ABBREVIATIONS

ACT. LEN.	ACTUAL LENGTH	GR	GRADE BREAK	PRC	POINT OF REVERSE CURVE
BOR.	BORING	PT	POINT OF TANGENCY	RM EL.	RM ELEVATION
BS	BENCH MARK	RO	ROAD	RT	RIGHT
CC	CRUSHED SURFACE	SE	SEWER CLEANOUT	SB	SEWER BRANCH
CL	TOP COURSE	SI	STREET INTERSECTION	SM	SANITARY SEWER
CT	CONCRETE	SR	STREET RIGHT	STN	STATION
DA	DIAMETER	WC	WATER CURVE	STL LEN.	STATION LENGTH
ED	END OF CURVE RADIUS	PT	PETROLEUM	TS	TOP OF GRADE
EXST.	EXISTING	PI	POINT OF INTERSECTION	TO	TOP OF CURB
G	GRADE				

- | | | | | |
|---|---|---|--|--|
| <p>PERMIT SPECIALIST
CITY OF SPOKANE VALLEY
SPokane County
10210 E. SPRAGUE AVE
SPOKANE, WA 99206
PHONE: 720-5240</p> | <p>SEWER
SPOKANE COUNTY
ENVIRONMENTAL SERVICES
1026 W BROADWAY AVE
SPOKANE, WA 99206
PHONE: 477-7180
CONTACT: COLIN DEPNER</p> | <p>WATER
SPOKANE COUNTY WATER DISTRICT #3
1225 N YARDLEY ST
SPOKANE, WA 99215
PHONE: 536-0121
CONTACT: JUSTIN VAN DYKE</p> | <p>FIRE
SPOKANE VALLEY FIRE DEPT.
2120 N WILBUR RD
SPOKANE, WA 99206
PHONE: 928-1700
CONTACT: MIKE WAKELA</p> | <p>ROADWAYS
CITY OF SPOKANE VALLEY
10210 E SPRAGUE
SPOKANE, WA 99206
PHONE: 720-5008</p> |
| <p>DEV. CONST. INSP.
CITY OF SPOKANE VALLEY
10210 E SPRAGUE AVE
SPOKANE, WA 99206
PHONE: 509-592-4306
CONTACT: TYSON SCHROEDER</p> | <p>HEALTH
SPOKANE REGIONAL HEALTH
1101 E. MISSION AVE
SPOKANE, WA 99220
PHONE: 324-1578
CONTACT: PAUL SAVAGE</p> | <p>GAS
AVISTA UTILITIES
1411 E. MISSION AVE
SPOKANE, WA 99220
PHONE: 485-0987
CONTACT: JOHN LUSE</p> | <p>POWER
INLAND POWER & LIGHT CO.
10100 W HALLETT RD
SPOKANE, WA 99224
PHONE: 829-788-4291
CONTACT: CONNIE NELSON</p> | <p>TELEPHONE
CENTURY LINK
804 N COLUMBUS ST
SPOKANE, WA 99202
PHONE: 835-4804
CONTACT: MARK WELCH</p> |
| <p>CABLE
COMCAST BROADBAND
1717 E BUCKEYE AVE
SPOKANE, WA 99207
PHONE: 753-4717
CONTACT: BRYAN RICHARDSON</p> | <p>SOLID WASTE
WASTE MANAGEMENT
PHONE: 1-866-909-6558</p> | <p>INSPECTION
I.P.E.C.
3012 N. SULLIVAN ROAD, STE D
SPOKANE VALLEY, WA 99206
PHONE: 209-6262
CONTACT: PAUL FRITH</p> | <p>SURVEYOR
WHIPPLE CONSULTING ENGINEERS
21 S. PINES RD
SPOKANE VALLEY, WA 99206
PHONE: 893-2617
CONTACT: DAVID CONNELL, P.L.S.</p> | <p>OWNER
BLACK REALTY, INC.
801 W RIVERSIDE AVE.
SUITE 400
SPOKANE, WA 99201
PHONE: 893-2617
CONTACT: TODD R. WHIPPLE, P.E.
CONTACT: BRYAN WALKER</p> |



PLANS
NOT APPROVED
BY AGENCY

<p>DATUM: NAVD - 88</p> <p>THIS IS A PORTION OF THE SOUTH FORK HORSESHOE SEWER PROJECT WITH AN ELEVATION OF 2025.87 (NAVD2011) = 2009.67 (NAD83) WAS USED FOR THE VERTICAL DATUM FOR THIS MAP.</p>	<p>SCALE:</p> <p>HORIZONTAL: 1"=300'</p> <p>VERTICAL: N/A</p>	<p>PROJ #: 13-1166</p> <p>DATE: 06/23/20</p> <p>DRAWN: JPP</p> <p>REVIEWED: TRW</p>	<p>WCE</p> <p>WHIPPLE CONSULTING ENGINEERS 208 NORTH SULLIVAN ROAD SPOKANE VALLEY, WA 99210 PH: 509-826-2617 FAX: 509-826-0227</p>	<p>SPOKANE VALLEY PAINTED HILLS PRD SEWER PLAN COVER DISHMAN-MICA RD. SPOKANE VALLEY, WA</p>	<p>SHEET C8.0</p> <p>JOB NUMBER 13-1166</p>																
	<table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>REVISIONS</th> </tr> <tr> <td>3</td> <td>06/22/20</td> <td>JMM</td> <td>REVISED PLANS</td> </tr> <tr> <td>2</td> <td>06-14-19</td> <td>JPP</td> <td>REVISED PLANS</td> </tr> <tr> <td>1</td> <td>06-12-19</td> <td>JPP</td> <td>ORIGINAL PREPARATION</td> </tr> </table>	NO.	DATE	BY	REVISIONS	3	06/22/20	JMM	REVISED PLANS	2	06-14-19	JPP	REVISED PLANS	1	06-12-19	JPP	ORIGINAL PREPARATION				
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SEWER GENERAL NOTES

SEWER CONSTRUCTION, INSPECTIONS, RECORD DRAWINGS, AND ENGINEER'S STATEMENTS SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE SPOKANE COUNTY POLICY ADOPTED APRIL 2002. THE DEVELOPER'S CONSTRUCTION ENGINEER SHALL SUBMIT A LETTER OF INTENT TO PROVIDE CONSTRUCTION INSPECTION AND RECORD DRAWING SERVICES PRIOR TO THE COUNTY'S ACCEPTANCE OF THESE PLANS FOR CONSTRUCTION.

- GENERAL:** ALL SEWER LINE CONSTRUCTION METHODS AND MATERIALS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AS JOINTLY PROMULGATED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND THE WASHINGTON STATE CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION, CURRENT EDITION, AS ADOPTED AND REVISED BY THE SPOKANE COUNTY UTILITIES DEPARTMENT. THESE PLANS ARE SCHEMATIC AND ARE NOT INTENDED TO DEPICT ALL DETAILS OF THE WORK REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE TO FAMILIARIZE HIMSELF WITH ACTUAL SITE CONDITIONS AND FACTORS AFFECTING THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH SPOKANE COUNTY TO DEVELOP A TRAFFIC CONTROL PLAN AND INSPECTION REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL REQUIRED PERMITS. PAVEMENT PATCHING REQUIREMENTS SHALL BE AS DETERMINED BY THE SPOKANE COUNTY ROAD DEPARTMENT.
- PIPE:** ALL SEWER PIPE SHALL BE PVC IN ACCORDANCE WITH A.S.T.M. D 3034, SDR 35. ALL SEWER SERVICE TEES SHALL BE A.S.T.M. D 3034 "SDR 26", TYPICAL.
- TRENCH EXCAVATION AND BACKFILL:** ALL TRENCH EXCAVATION AND BACKFILL SHALL CONFORM TO W.S.D.O.T. SECTION 7-08.3(1). ALL BEDDING SHALL CONSIST OF APPROVED BEDDING MATERIAL PLACED AROUND THE PIPE AND BACKFILLED AS PER W.S.D.O.T. SECTION 7-08.3(1)(C). BEDDING SHALL MEET 9-03.12(3) SPECIFICATIONS. COMPACTION OF BACKFILL IN ROADWAY SHALL BE PERFORMED TO MEET SPOKANE COUNTY ENGINEER'S REQUIREMENTS. TESTING COLLECTOR SEWER AND SIDE SEWER SHALL BE DONE IN ACCORDANCE WITH SPOKANE COUNTY UTILITIES DEPARTMENT.
- MANHOLES:** SHALL BE IN ACCORDANCE WITH SANITARY SEWER MANHOLE DETAILS AS ADOPTED BY SPOKANE COUNTY UTILITIES DEPARTMENT.
 - 4A. NOTE:** ALL MANHOLES THAT ARE OUTSIDE OF A PAVED PUBLIC RIGHT OF WAY SHALL HAVE LOCKABLE BOLT DOWN LIDS.
 - 4B:** THE CENTER OF ALL MANHOLES SHALL BE A MINIMUM OF 4' OFF OF FACE OF CURB (TYPICAL).

- 5. SIDE SEWERS:** EACH SEWER SERVICE LINE SHALL BE A MINIMUM OF 10 FEET FROM SIDE LOT LINES. EACH SEWER SERVICE LINE AND MANLINE STUB SHALL BE MARKED WITH A 4"x4" MARKER POST EXTENDING VERTICALLY FROM THE SEWER SERVICE OR MANLINE STUB INVERT TO A MINIMUM OF 24" ABOVE FINISHED GRADE. EACH 4"x4" MARKER POST SHALL HAVE A 1/2" GALV. WIRE SECURELY ATTACHED FOR ITS ENTIRE LENGTH AND SHALL BE CLEARLY MARKED SHOWING THE 4"x4" LENGTH IN FEET AT THE EXPOSED END.
- 6. INSPECTION WORK:** ALL SEWER CONSTRUCTION INSPECTIONS, RECORD DRAWINGS AND ENGINEERING STATEMENTS SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE SPOKANE COUNTY POLICY ADOPTED APRIL 2002. PROJECT SPONSOR OR HIS ENGINEER SHALL NOTIFY THE SPOKANE COUNTY DIVISION OF UTILITIES AT LEAST 48 HOURS IN ADVANCE OF THE START OF CONSTRUCTION OF THE SEWER SYSTEM, AND THE CONTRACTOR SHALL PROVIDE A GENERALIZED CONSTRUCTION SCHEDULE FOR THE PROGRESS OF WORK. THE CONTRACTOR SHALL COORDINATE THE WORK WITH THE ENGINEER AND PROVIDE ALL MEANS NECESSARY TO ALLOW THE ENGINEER TO INSPECT AND VERIFY THE SEWER ITEMS LISTED BELOW. FOR EACH ITEM TO BE INSPECTED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS IN ADVANCE.
 - A. CONFORMANCE OF ALL CONSTRUCTION MATERIALS WITH COUNTY STANDARDS** SHALL BE VERIFIED PRIOR TO INSTALLATION.
 - B. THE SEWER TRENCH SHALL BE INSPECTED FOR PROPER DIMENSIONS AND PIPE ZONE CLEARANCES PRIOR TO PLACEMENT OF PIPE.**
 - C. THE PLACEMENT AND COMPACTION OF THE PIPE ZONE MATERIAL AND BEDDING SHALL BE INSPECTED.**
 - D. THE PIPE JOINTS SHALL BE INSPECTED VISUALLY FOR PROPER INSERTION.**
 - E. HORIZONTAL ALIGNMENT AND GRADE OF THE PIPE SHALL BE CHECKED FOR CONFORMANCE TO THE STANDARDS PRIOR TO BACKFILLING OF THE TRENCH.**
 - F. SEWER SERVICE TEES AND STUBS SHALL BE INSPECTED FOR CORRECT INSTALLATION PRIOR TO BACKFILLING OF THE TRENCH.**

- G. ACCURATE MEASUREMENTS SHALL BE MADE AND RECORDED TO FACILITATE THE RE-ESTABLISHMENT OF SEWER SERVICE TEE LOCATIONS AND STUB END LOCATIONS. THE PLACEMENT OF THE REQUIRED STUB MARKERS SHALL BE VERIFIED.**
- H. MANHOLES SHALL BE INSPECTED FOR PROPER MATERIALS, LOCATION, ASSEMBLY, AND INSTALLATION.**
- I. TRENCH BACKFILLING OPERATIONS SHALL BE OBSERVED AND COMPACTION TESTS SHALL BE PERFORMED. MINIMUM REQUIREMENTS FOR BACKFILLING SHALL BE AS SET FORTH IN THE APPROVED PLANS AND/OR SPECIFICATIONS FOR THE PROJECT.**
- J. MANDREL TESTING, HYDROSTATIC AND/OR AIR PRESSURE TESTING, AND MANHOLE TESTING SHALL BE PERFORMED FOLLOWING COMPLETION OF TRENCH BACKFILLING OPERATIONS. THE TESTING SHALL BE OBSERVED UNTIL PASSING RESULTS ARE OBTAINED. MANHOLE TESTING SHALL BE 10% PERCENT OF THE MANHOLES IN THE PROJECT, IN ACCORDANCE WITH DEPARTMENT OF ECOLOGY'S "CRITERIA FOR SEWAGE WORKS DESIGN".**
- K. THE SPONSOR'S ENGINEER SHALL SCHEDULE TELEVISION INSPECTION OF THE SEWER LINES THROUGH THE DIVISION OF UTILITIES ONCE THE OTHER TESTING HAS BEEN SATISFACTORILY COMPLETED. THE DIVISION OF UTILITIES WILL THEN PERFORM THE TELEVISION INSPECTION AND POST THE VIDEO ON A COUNTY FTP SITE (FTP://FTP.SPOKANECOUNTY.ORG/SEWERUTIL) FOR ACCESS BY THE ENGINEER FOR REVIEW AND NOTATION OF ANY DEFICIENCIES REQUIRING REPAIR. THE ENGINEER WILL THEN NOTIFY THE CONTRACTOR TO INITIATE REPAIRS AND RE-INSPECTION.**
- L. THE ITEMS LISTED UNDER RECORD DRAWINGS (NOTE #7) SHALL BE INCLUDED IN THE INSPECTION AND TESTING WORK.**

7. RECORD DRAWINGS, REPRODUCIBLE RECORD DRAWINGS WITH "ENGINEERS STATEMENT" ARE TO BE SUBMITTED TO AND APPROVED BY THE SPOKANE COUNTY UTILITIES DEPARTMENT AT THE COMPLETION OF CONSTRUCTION. 2 HORIZONTAL AND 1 VERTICAL TIE SHALL BE SHOWN ON RECORD DRAWINGS FOR ALL SIDE SEWER SERVICES, MAIN LINE STUBS, AND CLEAUNOUTS. STUBS THAT ARE NOT CONSTRUCTED PERPENDICULAR TO SEWER MAIN WILL NEED A STATION AND OFFSET FROM SEWER MAIN TO END CAP SHOWN ON RECORD DRAWINGS. STATIONS SHALL BE FROM DOWNSTREAM MANHOLE AND MEASURED ON MAIN SEWER LINE. MINIMUM SEWER RECORD DRAWING REQUIREMENTS ARE AS FOLLOWS:

- PIPE SIZE AND TYPE/LENGTH AND SLOPE BETWEEN MANHOLES.
- ACTUAL RIM AND INVERT ELEVATION AT EACH MANHOLE.
- DISTANCE FROM DOWNSTREAM MANHOLE TO SIDE SEWER SERVICE STUB ENDS. 90° TO STUB END FROM SEWER MAIN OR BACK OF CURB (NOT PROPERTY LINES).
- ALL ANGLE POINTS OR BENDS ON SIDE SERVICE LINE SHALL BE LOCATED WITH 2 HORIZONTAL SWING TIES. STUBS NOT CONSTRUCTED PERPENDICULAR TO SEWER MAIN WILL REQUIRE A STATION ON THE SERVICE TEE ALSO SHOWN ON RECORD DRAWINGS.
- ACTUAL INVERT ELEVATION OF STUB AND CALCULATED DEPTH FROM ADJOINING CURB OR NATURAL GROUND. THE ENGINEER SHALL COMPLETE B 1/2"x11 COUNTY STANDARD PLAN SHEET U-16 (SIDE SERVICE CONNECTION RECORD DRAWING) FOR EACH SIDE SERVICE WITHIN PROJECT OR PLAT AND SUBMIT WITH RECORD DRAWINGS OF PLAN AND PROFILE SHEETS PRIOR TO PROJECT SIGN OFF.
- STREET WIDTH/BACK TO BACK OF CURBS/WIDTH OF RIGHT-OF-WAY.
- LOCATION OF SEWER MAIN WITHIN STREET. FORCE MAIN ANGLE POINTS SHALL BE LOCATED TWO WAYS HORIZONTALLY AND ONE WAY VERTICALLY FROM PERMANENT SURFACE FEATURES.
- STUBS NOT 10' FROM THE SIDE LOT LINES MUST BE MOVED OR A MAINTENANCE EASEMENT MUST BE PROVIDED OR A HOLD COUNTY HARMLESS AGREEMENT MUST BE PROVIDED.
- SHOW ALL SERVICED LOTS, LOT NUMBERS, BLOCK NUMBERS AND LOT LINES.
- SHOW DIMENSIONS AND INCLUDE A COPY OF THE RECORDED EASEMENT DOCUMENT FOR ALL MANLINE SANITARY SEWER EASEMENTS (10' MINIMUM EACH SIDE OF PIPE).

8. TESTING AND ACCEPTANCE: TESTING OF MAIN LINES, SERVICES, MANHOLES, AND APPURTENANCES SHALL CONFORM TO THE WSDOT STANDARD SPECIFICATIONS, 2004 EDITION. THE LOW PRESSURE AIR TEST METHOD AND TV INSPECTION SHALL BE PERFORMED. ALL SEWER LINES SHALL BE CLEANED PRIOR TO TV INSPECTION BY JET ROODING OR BY FLUSHING.

NOTE: WHEN FLUSHING IS USED BY CONTRACTOR TO CLEAN LINES THE ENGINEER'S INSPECTION REPRESENTATIVE SHALL BE PRESENT ON-SITE TO INSURE THAT NO CONSTRUCTION MATERIAL IS FLUSHED INTO THE EXISTING COUNTY SEWER SYSTEM.

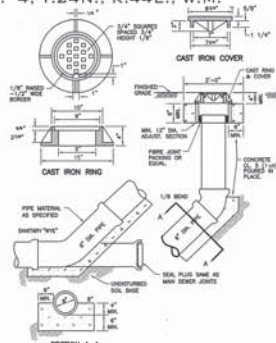
9. INSTALLATION OF SEWER SERVICE: PRIOR TO THE INSTALLATION OF SEWER SERVICES, THE CONTRACTOR SHALL COORDINATE WITH EACH RESIDENT A MINIMUM OF 48 HOURS IN ADVANCE OF THE INSTALLATION OF THEIR SERVICE. THE CONTRACTOR SHALL REMOVE AND REPLACE FENCING AND DRIVEWAYS REQUIRED TO INSTALL SEWER SERVICES. THE CONTRACTOR SHALL ALSO PROVIDE TOPSOIL AND SEED AND RESTORE DISTURBED AREAS AS A RESULT OF THIS CONSTRUCTION TO EXISTING CONDITIONS.

10. EXISTING SEWER CONNECTIONS: THE CONTRACTOR SHALL VERIFY SEWER STUB CONNECTIONS WITH EXISTING HOMEOWNERS PRIOR TO CONSTRUCTION. SEWER SERVICE CONNECTIONS SHALL BE TYPE "A" UNLESS OTHERWISE SPECIFIED ON THE APPROVED PLANS. SEWER STUBS HAVE A MINIMUM SLOPE OF 2% UNLESS OTHERWISE NOTED ON THE APPROVED PLANS.

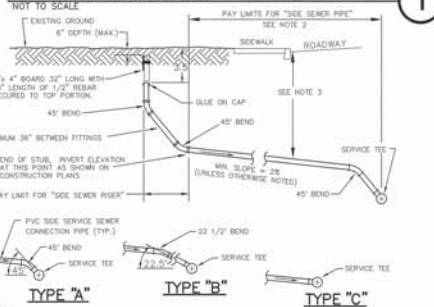
SPECIAL NOTES

- REGARDING NOTE NO. 5: PER SPOKANE COUNTY STANDARD DETAIL U-5 A 2"x4" MARKER POST MAY BE SUBSTITUTED FOR THE 4"x4" MARKER POST REFERENCED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THIS POST THROUGHOUT THE COURSE OF CONSTRUCTION TO THE SATISFACTION OF THE ENGINEER.
- SEWER STUB LOCATION AND SIZE SHALL BE COORDINATED BY ENGINEER WITH HOMEOWNER PRIOR TO CONSTRUCTION. WRITTEN CORRESPONDENCE WITH HOMEOWNER IS REQUIRED AND COPIES SHALL BE SUBMITTED TO SPOKANE COUNTY FOR THE RECORD.
- ALL PARCELS THAT ARE ADJACENT TO THIS SEWER PROJECT AND ARE LARGE ENOUGH TO BE SHORT PLATTED OR FURTHER DEVELOPED SHALL HAVE A MINIMUM OF A 6" SERVICE STUB ADDED FOR FUTURE DEVELOPMENT.

SE, SEC. 33, T.25N., R.44E., W.M.
SW, SEC. 34, T.25N., R.44E., W.M.
NE, SEC. 4, T.24N., R.44E., W.M.

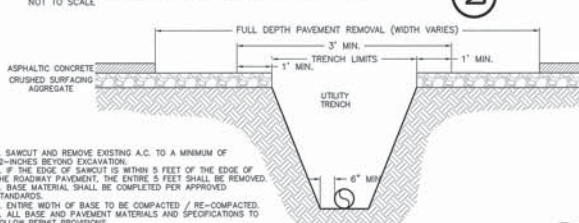


SEWER CLEANOUT



- NOTES:**
- INSTALL PIPE ZONE MATERIAL (BEDDING) PER SPECIFICATIONS.
 - THE SIDE SEWER PIPE SHALL EXTEND TO THE POINT SHOWN ON THE PLANS. THE ENGINEER MAY FURTHER EXTEND THE SIDE SEWER PIPE TO MAINTAIN A 1% SLOPE FROM EXISTING OR PLANNED EDGE OF ASPHALT OR CONCRETE IMPROVEMENTS.
 - ALL SIDE SERVICES TO BE INSTALLED AT A MINIMUM DEPTH OF 6" WITHIN THE RIGHT OF WAY, UNLESS APPROVED BY THE SEWER DESIGN MANAGER.
 - THE RECORD DRAWINGS FOR EACH INDIVIDUAL STUB SHALL INCLUDE TWO (2) HORIZONTAL TIES TO THE TOP OF THE RISER. IN ADDITION, THE SEWER MANLINE STATION AND 90° OFFSET DISTANCE TO THE RISER PIPE SHALL BE PROVIDED. THE DEPTH AND INVERT ELEVATION REQUIRED ON THE RECORD DRAWING (SPOKANE COUNTY SD3 SHEET U-16) SHALL REFER TO THE PIPE INVERT AT THE BOTTOM OF THE SIDE SEWER RISER.
 - ALL CONNECTIONS SHALL BE TYPE "A" UNLESS OTHERWISE NOTED.
 - SIDE SEWER RISER IS OPTIONAL INSIDE NEW DEVELOPMENTS. IF RISER IS NOT INSTALLED, EXTEND 2" 4" MARKER TO STUB INVERT.
 - SERVICE TEE SHALL MEET ASTM D3034, SDR 35.

TYPICAL SERVICE CONNECTION



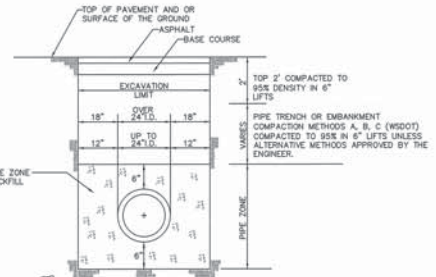
TYPICAL UTILITY CUT REPAIR

NOT TO SCALE

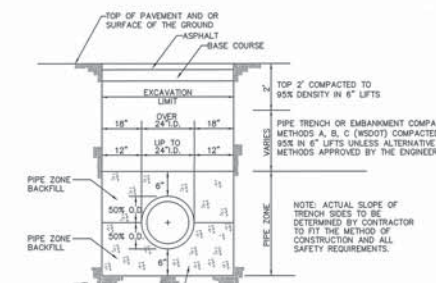
- SAWCUT AND REMOVE EXISTING A.C. TO A MINIMUM OF 12-INCHES BEYOND EXCAVATION.
- IF THE EDGE OF SAWCUT IS WITHIN 5 FEET OF THE EDGE OF THE ROADWAY PAVEMENT, THE ENTIRE 5 FEET SHALL BE REMOVED.
- BASE MATERIAL SHALL BE COMPLETED PER APPROVED STANDARDS.
- ENTIRE WIDTH OF BASE TO BE COMPACTED / RE-COMPACTED.
- ALL BASE AND PAVEMENT MATERIALS AND SPECIFICATIONS TO FOLLOW PERMIT PROVISIONS.

SPOKANE COUNTY UTILITIES STANDARD NOTES FOR SMALL COMMERCIAL PROJECTS

- PER SPOKANE COUNTY SANITARY SEWER ORDINANCE 96-0752 A SET OF UTILITIES DIVISION STAMPED APPROVED PLANS MUST BE ON THE JOB SITE AND READILY ACCESSIBLE TO THE INSPECTOR.
- IF PROJECT INCLUDES SEWER TAP INTO AN EXISTING COUNTY OPERATED SEWER MAIN, PERMIT AND INSPECTION IS REQUIRED AND COUNTY INSPECTOR TO BE ON-SITE AT TIME OF TAP. CALL ONE WORKING DAY IN ADVANCE TO SCHEDULE INSPECTIONS, 477-3604.
- SEWER PERMIT REQUIRED FOR EACH BUILDING CONNECTION TO SEWER PROJECT SITE. ALL ON-SITE SEWER INSTALLATIONS MUST BE INSPECTED. CALL ONE WORKING DAY IN ADVANCE TO SCHEDULE INSPECTIONS, 477-3604.
- ALL SANITARY SEWER PIPE ON-SITE MAY BE REQUIRED TO BE CLEANED, MANDRELED, AND AIR OR WATER TESTED FOR LEAKAGE AT THE INSPECTOR'S REQUEST.
- ALL CLEAUNOUTS SHALL BE INSTALLED AT A MAXIMUM 90° INTERVALS INCLUDING DISTANCE TO SEWER MAIN IN STREET AND CLEAUNOUT RISER HEIGHT. ALSO, AT ANY CHANGE IN DIRECTION OF 90 DEGREES OR GREATER AND SHALL BE PLACED IN COUNTY APPROVED COVERS OR CASTINGS.
- ANY EXISTING SEPTIC TANKS ON-SITE SHALL BE ABANDONED AND INSPECTED PER SPOKANE COUNTY HEALTH DISTRICT AND SPOKANE COUNTY UTILITIES DIVISION REGULATIONS. CALL ONE WORKING DAY IN ADVANCE TO SCHEDULE TANK INSPECTIONS, 477-3604.
- ALL SANITARY SEWER CONSTRUCTION SHALL CONFORM TO THE CURRENT SPOKANE COUNTY UTILITIES DIVISION STANDARDS.
- THE OWNER/DEVELOPER HEREBY AGREES TO PERMIT ACCEPTABLE REPRODUCIBLE AS-BUILT DRAWINGS PREPARED BY AN ENGINEER FOR THE PROJECT WITHIN A 30 DAY PERIOD FOLLOWING SEWER CONSTRUCTION COMPLETION.



PLASTIC PIPE



CONCRETE, DUCTILE & METAL PIPE

TYPICAL UTILITY TRENCH



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



PLANS NOT APPROVED BY AGENCY

SPOKANE VALLEY PAINTED HILLS PRD
SEWER NOTES & DETAILS
DISHMAN-MICA RD.
SPOKANE VALLEY, WA

SHEET
CB.2
JOB NUMBER
13-1166

➔ DATUM: NAVD - 88

FORM 5-4 OF THE SOUTH HONDEROSA SEWER PROJECT WITH AN ELEVATION OF 2005.87 NAVD09+2009.67 (NAVD08) WAS USED FOR THE VERTICAL DATUM FOR THIS MANHOLE

NO.	DATE	BY	REVISIONS
3	08-22-08	JMH	REVISED PLANS
2	08-14-08	JPP	REVISED PLANS
1	08-12-08	JPP	ORIGINAL PREPARATION

SCALE:
HORIZONTAL: N/A
VERTICAL: N/A

PROJ. #: 13-1166
DATE: 06/23/20
DRAWN: JPP
REVIEWED: TRW

IWCE
CONSULTING ENGINEERS
2026 NORTH HULLMAN ROAD
SPOKANE VALLEY, WA 99207
PH: (509) 832-1171 FAX: (509) 832-0227

SPOKANE VALLEY PAINTED HILLS PRD
SEWER NOTES & DETAILS
DISHMAN-MICA RD.
SPOKANE VALLEY, WA

SHEET
CB.2
JOB NUMBER
13-1166

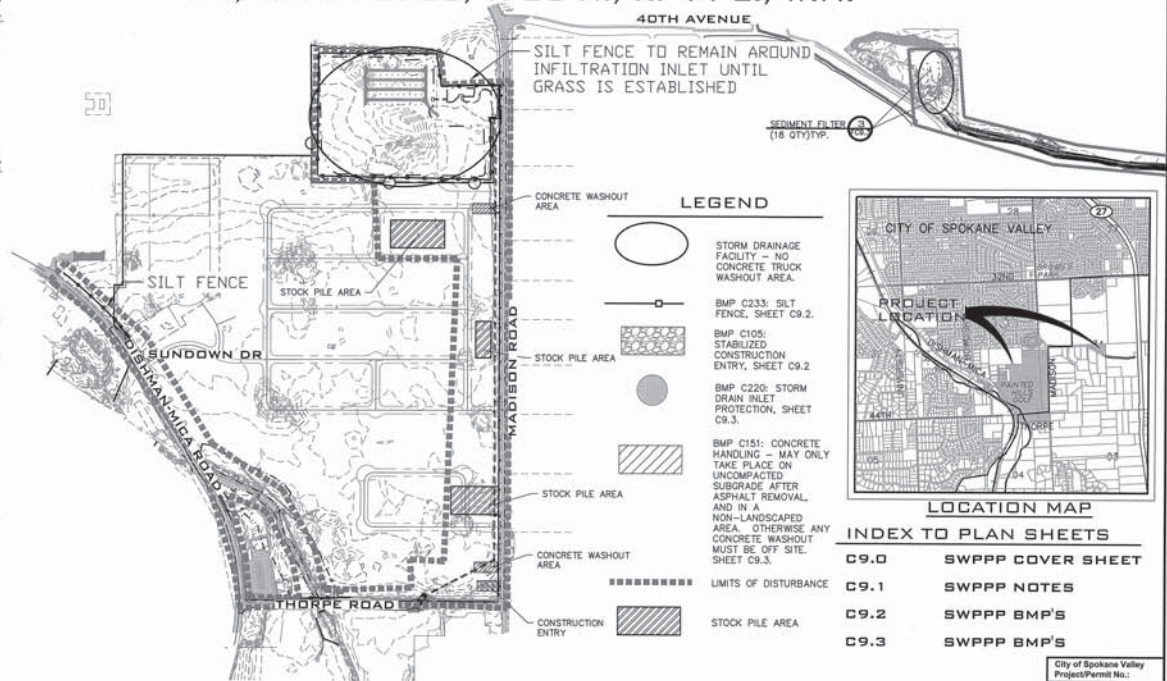
WCE GENERAL NOTES

- ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION OF SITE IMPROVEMENTS SHALL MEET OR EXCEED THE WSDOT/APWA STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION CURRENT EDITION AS MODIFIED BY THE STANDARD AND SPECIFICATIONS SET FORTH BY THE CITY OF SPOKANE VALLEY/SPOKANE COUNTY REGULATIONS AND OTHER 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 CITY OF SPOKANE VALLEY/SPOKANE COUNTY INSPECTOR. INSPECTION SERVICES AND CONSTRUCTION CERTIFICATION TO BE PROVIDED BY DESIGNEE OF PROJECT SPONSOR/OWNER.
- 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL NOTIFY THE CITY OF SPOKANE VALLEY/SPOKANE COUNTY INSPECTOR AT LEAST 48 HOURS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITY OR CONSTRUCTION ON ANY AND ALL PUBLIC IMPROVEMENTS.
- THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE CITY OF SPOKANE VALLEY/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.
- 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO: EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.
- 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.
- ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.
- FOR WORK AFFECTING PUBLIC ROADWAYS OR IF REQUIRED BY THE CITY OF SPOKANE VALLEY/SPOKANE COUNTY, THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL AND PHASING PLAN IN ACCORDANCE WITH MUTCD 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 CITY OF SPOKANE VALLEY/SPOKANE COUNTY.
- 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.
- PER AGENCY STANDARDS THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING RECORD INFORMATION ON A SET OF RECORD DRAWINGS KEPT AT THE CONSTRUCTION SITE AND AVAILABLE TO THE CITY OF SPOKANE VALLEY/SPOKANE COUNTY INSPECTOR AT ALL TIMES.
- 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.
- 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.
- 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.
- ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY IS SUBJECT TO THE JURISDICTION OF THE CITY OF SPOKANE VALLEY/SPOKANE COUNTY ENGINEERING DEPARTMENT STANDARD DETAILS AND SPECIFICATIONS.
- 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 CITY OF SPOKANE VALLEY/SPOKANE COUNTY.
- BASED ON REQUIREMENTS FROM CITY OF SPOKANE VALLEY/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 CITY OF SPOKANE VALLEY/SPOKANE COUNTY ENGINEER.
- NO REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT APPROVAL OF THE CITY OF SPOKANE VALLEY/SPOKANE COUNTY ENGINEERS AND NOTIFICATION OF THE ENGINEER OF RECORD.
- 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 PRE-APPROVED SOURCE/DESTINATION AND COORDINATED WITH THE CITY OF SPOKANE VALLEY/SPOKANE COUNTY DEPARTMENT OF BUILDING AND PLANNING AT **CITY 509-720-5240 & 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.
- 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 ETAL, 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 DO 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.
- 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.
- DURING CONSTRUCTION THE CONTRACTOR IS RESPONSIBLE TO COORDINATE ANY AND ALL INCONSISTENCIES BETWEEN THESE PLANS AND CONSTRUCTION STAKING. CONTRACTOR ASSUMES RESPONSIBILITY TO CONTACT THE ENGINEER IN LEAD FIELD STAKING SHOULD INCONSISTENCIES BE APPARENT. THE CONTRACTOR SHALL CONTACT THE ENGINEER, OWNER, AND SURVEYOR TO RECTIFY THE DISCREPANCY PRIOR TO CONSTRUCTION EFFORT BEING APPROVED.
- 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.
- ALL FIRE LINES MUST BE INSTALLED BY AN APPROVED LEVEL "U" CONTRACTOR OR A LEVEL 3 FIRE PROTECTION CONTRACTOR.
- CONTRACTOR IS NOTIFIED THAT SOME OR ALL OF THE PAVEMENT CUTS TO INSTALL DRY UTILITIES, SEWER, WATER, STORM OR OTHER TIE-INS SHALL BE COORDINATED WITH THE CITY OF SPOKANE VALLEY/SPOKANE COUNTY AS SPECIFIC PAVEMENT CUT POLICIES MAY BE IN EFFECT THAT ARE NOT NOTED ON THE PLANS.
- THE CONTRACTOR IS NOTED THAT IT IS NOT THE OWNERS, ENGINEERS, CITY'S NOR THE INSPECTION AND TESTING COMPANY'S (THE PARTIES) RESPONSIBILITY TO ANTICIPATE WHEN CONSTRUCTED ELEMENTS WILL BE READY FOR INSPECTION AND TESTING. THE CONTRACTOR IS RESPONSIBLE TO NOTIFY ALL PARTIES THAT CERTAIN CONSTRUCTED ELEMENTS ARE BEING INSTALLED AND ON WHAT DATE THEY WILL BE INSTALLED. IF SUCH FAILURE TO NOTIFY THEN RESULTS IN LACK OF INSPECTIONS AND TESTING SERVICES FOR CERTAIN ELEMENTS, THE CONTRACTOR SHOULD NOT EXPECT THAT THIS LACK OF INSPECTION AND TESTING WILL RESULT IN THE BLANKET APPROVAL OF SUCH ITEM. THE CONTRACTOR IS NOTIFIED THAT SUBSEQUENT REMOVAL AND RECONSTRUCTION OF SUCH ELEMENTS IS TO BE BORNE BY THE CONTRACTOR AND OR THEIR SUB-CONTRACTOR PROVIDING THE SERVICE AND THE INSTALLATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE SURE THAT ALL PARTIES ARE ADEQUATELY NOTIFIED, NOTIFICATION WILL BE BY TWO MEANS FOR EACH REMOVAL/OCCURRENCE. THE ACCEPTABLE MEANS ARE AS FOLLOWS, EMAIL, TEXT, FAX OR PHONE. NOTIFICATION SHALL INCLUDE ELEMENT, DATE AND CONSTRUCTION START TIME. EXCESSIVE STANDBY TIME ON THE PART OF THE PARTIES MAY RESULT IN A BACK CHARGE TO THE CONTRACTOR.

SE 1/4, SEC. 33, T. 25 N., R. 44 E., W.M.
SW 1/4, SEC. 34, T. 25 N., R. 44 E., W.M.
NE 1/4, SEC. 4, T. 24 N., R. 44 E., W.M.

SWPPP/EROSION CONTROL PLAN

**PAINTED HILLS PRD
DISHMAN-MICA ROAD & THORPE ROAD
SPOKANE VALLEY, WASHINGTON
SE, 1/4 OF S. 33, T. 25 N., R. 44 E., W.M.**



SWPPP PLAN

SCALE: 1"=300'

SEWER

SPOKANE COUNTY ENVIRONMENTAL SERVICES
1026 W BROADWAY AVE
SPOKANE, WA 99260
PHONE: 477-7189
CONTACT: COLIN DEPNER

WATER

SPOKANE COUNTY WATER DISTRICT #3
1225 N YARLEY ST
SPOKANE, WA 99212
PHONE: 506-0121
CONTACT: JUSTIN VAN DYKE

FIRE

SPOKANE VALLEY FIRE DEPT.
2120 N WELBUR RD
SPOKANE, WA 99206
PHONE: 928-1700
CONTACT: MIKE MAKELA

ROADWAYS

CITY OF SPOKANE VALLEY
10210 E SPRAGUE AVE
SPOKANE, WA 99206
PHONE: 720-5008
CONTACT: TISON SCHROEDER

TELEPHONE

COMCAST BROADBAND
1717 E BUCKEYE AVE
SPOKANE, WA 99207
PHONE: 755-4717
CONTACT: BRYAN RICHARDSON

OWNER

BLACK REALTY, INC.
801 W RIVERSIDE AVE,
SUITE 400
SPOKANE, WA 99201
PHONE: 623-1000
CONTACT: BRYAN WALKER

GAS

AVISTA UTILITIES
1411 E MISSION AVE
SPOKANE, WA 99220
PHONE: 324-1578
CONTACT: PAUL SAVAGE

POWER

INLAND POWER & LIGHT CO.
10100 W HALLETT RD
SPOKANE, WA 99224
PHONE: 509-789-4291
CONTACT: CONNIE NELSON

SURVEYOR

WHIPPLE CONSULTING ENGINEERS
21 S PINES RD
SPOKANE VALLEY, WA 99206
PHONE: 893-2817
CONTACT: DAVID COWELL, P.L.S.

ENGINEERING

WHIPPLE CONSULTING ENGINEERS
21 S PINES RD
SPOKANE VALLEY, WA 99206
PHONE: 893-2817
CONTACT: TODD R. WHIPPLE, P.E.

WASTE MANAGEMENT

SPOKANE REGIONAL HEALTH
1101 W COLLEGE AVE
SPOKANE, WA 99260
PHONE: 324-1578
CONTACT: PAUL SAVAGE

INSPECTION

IF.E.C.
3012 N SULLIVAN ROAD, SITE D
SPOKANE VALLEY, WA 99206
PHONE: 209-6262
CONTACT: PAUL FRITH

HEALTH

SPOKANE REGIONAL HEALTH
1101 W COLLEGE AVE
SPOKANE, WA 99260
PHONE: 324-1578
CONTACT: PAUL SAVAGE

SOLID WASTE

SPOKANE REGIONAL HEALTH
1101 W COLLEGE AVE
SPOKANE, WA 99260
PHONE: 324-1578
CONTACT: PAUL SAVAGE

PERMIT SPECIALIST

CITY OF SPOKANE VALLEY
PERMIT CENTER
10210 E SPRAGUE AVE
SPOKANE, WA 99206
PHONE: 720-5240

DEV. CONST. INSP.

CITY OF SPOKANE VALLEY
10210 E SPRAGUE AVE
SPOKANE, WA 99206
PHONE: 509-599-0308
CONTACT: TISON SCHROEDER

CABLE

COMCAST BROADBAND
1717 E BUCKEYE AVE
SPOKANE, WA 99207
PHONE: 755-4717
CONTACT: BRYAN RICHARDSON

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SPOKANE VALLEY, WA 99206
PHONE: 893-2817
CONTACT: DAVID COWELL, P.L.S.

ENGINEERING

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PHONE: 893-2817
CONTACT: TODD R. WHIPPLE, P.E.

WASTE MANAGEMENT

SPOKANE REGIONAL HEALTH
1101 W COLLEGE AVE
SPOKANE, WA 99260
PHONE: 324-1578
CONTACT: PAUL SAVAGE

HEALTH

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SOLID WASTE

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PERMIT CENTER
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PHONE: 720-5240

DEV. CONST. INSP.

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PHONE: 509-599-0308
CONTACT: TISON SCHROEDER

CABLE

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PHONE: 755-4717
CONTACT: BRYAN RICHARDSON

OWNER

BLACK REALTY, INC.
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SUITE 400
SPOKANE, WA 99201
PHONE: 623-1000
CONTACT: BRYAN WALKER

GAS

AVISTA UTILITIES
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PHONE: 324-1578
CONTACT: PAUL SAVAGE

POWER

INLAND POWER & LIGHT CO.
10100 W HALLETT RD
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PHONE: 509-789-4291
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CITY OF SPOKANE VAL

SE₁, SEC. 33, T.25N., R.44E., W.M.
 SW₁, SEC. 34, T.25N., R.44E., W.M.
 NE₁, SEC. 4, T.24N., R.44E., W.M.



**EROSION & SEDIMENT CONTROL
 GENERAL NOTES AND INFORMATION**

1. AN EROSION/SEDIMENT CONTROL (E.S.C.) PLAN IS REQUIRED FOR THIS PROJECT. IMPLEMENTATION OF THE E.S.C. PLAN, AND CONSTRUCTION, MAINTENANCE, AND UPGRADING OF THE E.S.C. FACILITIES ARE THE RESPONSIBILITY OF THE DEVELOPER UNTIL ALL CONSTRUCTION IS COMPLETED AND ACCEPTED BY THE CITY OF SPOKANE VALLEY, OR UNTIL VEGETATION IS ESTABLISHED THROUGHOUT THE SITE, AND ACCEPTED BY THE CITY OF SPOKANE VALLEY, WHOEVER IS LATER.
2. APPROVAL OF THE E.S.C. PLAN DOES NOT CONSTITUTE APPROVAL OF ANY OF THE PROPOSED ROAD, STORM DRAINAGE, GRADING OR UTILITY DESIGN ELEMENTS SHOWN ON THE E.S.C. PLAN.
3. THE EROSION/SEDIMENT CONTROL MEASURES SHOWN ARE THE MINIMUM REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. THE CONTRACTOR SHALL INSPECT AND MAINTAIN THESE E.S.C. MEASURES DAILY, AND SHALL MAINTAIN AND UPGRADE THESE MEASURES AS NECESSARY TO PREVENT SEDIMENT-LADEN WATER FROM EITHER FLOWING OFF SITE, OR INTO NEW/EXISTING STORM DRAINAGE FACILITIES, SUCH AS DRYWELLS, CULVERTS, OR GRAVEL GALLERIES.
4. GEOTEXTILE FABRIC IS TO BE PLACED ON THE RIMS, CATCH BASINS AND INLETS UNTIL SUCH TIME THAT THE VEGETATION ON THE SITE IS ESTABLISHED AND THE THREAT OF SEDIMENT DEPOSITION INTO THE DRAINAGE SYSTEM IS MITIGATED.
5. THE SILT FENCES SHALL BE INSTALLED BY THE CONTRACTOR PRIOR TO OTHER SITE WORK, AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION, AS WORK PROGRESSES. ADDITIONAL SILT FENCE MAY BE REQUIRED TO PROTECT STREAM AREAS AND PREVENT SEDIMENT FROM GOING OFFSITE.
6. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING ROCK CONSTRUCTION ENTRIES AT ANY AND ALL LOCATIONS USED TO ENTER OR EXIT THE PROJECT SITE. SEE DETAIL.
7. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNATING A LOCATION WHERE CONCRETE TRUCKS AND EQUIPMENT CAN BE WASHED OUT, NOT LOCATED NEAR OR DRAINING INTO A STORM DRAINAGE AREA.
8. PROPERTY OWNER: BLACK REALTY, INC. - BRYAN WALKER
 PERMIT APPLICANT: WHIPPLE CONSULTING ENGINEERS, INC. 509-893-2617
 CONTACT PERSON ON SITE: TBD
9. PROJECT LOCATION: DISHMAN-MICA ROAD & THORPE ROAD, IN SPOKANE COUNTY, WASHINGTON, IN SECTION 33, TOWNSHIP 25 N., RANGE 44 E. W.M.
10. PROJECT DESCRIPTION: DEVELOPMENT OF 99.7 ACRES +/- INTO COTTAGE, SINGLE FAMILY, ESTATE, APARTMENT, AND COMMERCIAL LOTS OF AN EXISTING VACANT GOLF COURSE.
11. DESCRIPTION OF E.S.C. MEASURES: USE OF SILT FENCES AND SEDIMENTATION FILTERS. ALL E.S.C. MEASURES MENTIONED ABOVE ARE TEMPORARY AND WILL BE REMOVED AFTER SITE IS LANDSCAPED.
12. EXISTING VEGETATION: VACANT LAND WITH GRASS AND WEED COVER.
13. PLAN PREPARATION DATE: SEPTEMBER - 2016
14. SOILS: ALLUVIAL LEAN CLAY, SILT, OR SILTY SAND.
15. STABILIZATION OF DENUDED AREAS:
 ANY DISTURBED AREAS, WHICH WOULD BE LEFT BARE FOR MORE THAN 7 DAYS AND ARE NOT INTENDED TO BE REWORKED WITHIN 30-45 DAYS SHALL BE SEEDED WITH A FAST STARTING NATIVE DRYLAND GRASS SUCH AS ANNUAL RYE, OR APPROVED EQUAL, AT A RATE OF 60 lbs/ACRE.
16. CONTROL OF POLLUTANTS:
 ANY SPILLS WILL BE HANDLED ACCORDING TO D.O.E. AND D.O.M. GUIDELINES.
17. LIMITS OF GRADING:
 DURING THE COURSE OF CONSTRUCTION, THE AMOUNT OF DISTURBED AREA SHALL BE KEPT TO A MINIMUM AND SHALL BE LIMITED TO THE AREA SHOWN AS "LIMITS OF GRADING" ON THIS SHEET OF THE EROSION CONTROL PLANS.

MAINTENANCE

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF THE TEMPORARY E.S.C. MEASURES.
2. SEDIMENT BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RUNOFF-PRODUCING RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
3. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF FILTER FABRIC SHALL BE ACCOMPLISHED PROMPTLY.
4. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RUNOFF-PRODUCING RAINFALL. DEPOSITS MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY 1/2 THE HEIGHT OF THE BARRIER.
5. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE E.S.C. STRUCTURE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.
6. ALL TEMPORARY AND PERMANENT E.S.C. PRACTICES SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION.
7. ALL TEMPORARY E.S.C. MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY BMP'S ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON SITE. DISTURBED SOIL AREAS RESULTING FROM REMOVAL SHALL BE PERMANENTLY STABILIZED.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING DIRT, MUD AND OTHER CONSTRUCTION DEBRIS WHICH MAY ACCUMULATE ON PAVED STREETS ADJACENT TO THE SITE AS A RESULT OF CONSTRUCTION ACTIVITY. CLEANING SHALL BE ON AN "AS NEEDED" BASIS USING SWEEPING AND WATER TO WASH THE CONSTRUCTION DEBRIS FROM THE STREET.
9. ON-SITE DUST CONTROL SHALL BE ACCOMPLISHED BY USING WATER. APPLICATIONS OF WATER MAY BE REQUIRED SEVERAL TIMES PER DAY DURING CONSTRUCTION ACTIVITY.

**E.S.C. STANDARD PLAN NOTES FROM APPENDIX 9A OF THE
 SPOKANE REGIONAL STORMWATER MANUAL**

1. THE FOLLOWING CONSTRUCTION SEQUENCE SHALL BE FOLLOWED IN ORDER TO BEST MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENTATION CONTROL PROBLEMS.
 - (A) CLEAR AND GRUB SUFFICIENTLY FOR INSTALL OF TEMPORARY E.S.C. BMP'S;
 - (B) INSTALL TEMPORARY E.S.C. BMP'S, CONSTRUCTING SEDIMENT TRAPPING BMP'S AS ONE OF THE FIRST STEPS PRIOR TO GRADING;
 - (C) CLEAR, GRUB AND ROUGH GRADE FOR ROADS, TEMPORARY ACCESS POINTS AND UTILITY LOCATIONS;
 - (D) STABILIZE ROADWAY APPROACHES AND TEMPORARY ACCESS POINTS WITH THE APPROPRIATE CONSTRUCTION ENTRY BMP;
 - (E) CLEAR, GRUB AND GRADE INDIVIDUAL LOTS OR GROUPS OF LOTS;
 - (F) TEMPORARILY STABILIZE, THROUGH RE-VEGETATION OR OTHER APPROPRIATE BMP'S, LOTS OR GROUPS OF LOTS IN SITUATIONS WHERE SUBSTANTIAL CUT OR FILL SLOPES ARE A RESULT OF THE SITE GRADING;
 - (G) CONSTRUCT ROADS, BUILDINGS, PERMANENT STORMWATER FACILITIES. (I.E. INLETS, PONDS, U.I.C. FACILITIES, ETC.);
 - (H) PROTECT ALL PERMANENT STORMWATER FACILITIES UTILIZING THE APPROPRIATE BMP'S;
 - (I) INSTALL PERMANENT E.S.C. CONTROLS, WHEN APPLICABLE; AND,
 - (J) REMOVE TEMPORARY E.S.C. CONTROLS WHEN:
2. PERMANENT E.S.C. CONTROLS, WHEN APPLICABLE, HAVE BEEN COMPLETELY INSTALLED;
3. ALL LAND-DISTURBING ACTIVITIES THAT HAVE THE POTENTIAL TO CAUSE EROSION AND SEDIMENTATION PROBLEMS HAVE CEASED, AND,
4. VEGETATION HAS BEEN ESTABLISHED IN THE AREAS NOTED AS REQUIRING VEGETATION ON THE ACCEPTED E.S.C. PLAN ON FILE WITH THE LOCAL JURISDICTION.
5. INSPECT ALL ROADWAYS, AT THE END OF EACH DAY, ADJACENT TO THE CONSTRUCTION ACCESS ROUTE. IF IT IS EVIDENT THAT SEDIMENT HAS BEEN TRACKED OFF SITE AND/OR BEYOND THE ROADWAY APPROACH, CLEANING IS REQUIRED.
6. IF SEDIMENT REMOVAL IS NECESSARY PRIOR TO STREET WASHING, IT SHALL BE REMOVED BY SHOVELING OR PICKUP SWEEPING AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
7. IF STREET WASHING IS REQUIRED TO CLEAN SEDIMENT TRACKED OFF SITE, ONCE SEDIMENT HAS BEEN REMOVED, STREET WASH WASTEWATER SHALL BE CONTROLLED BY PUMPING BACK ON-SITE OR OTHERWISE PREVENTED FROM DISCHARGING INTO SYSTEMS TRIBUTARY TO WATERS OF THE STATE.
8. RESTORE CONSTRUCTION ACCESS ROUTE EQUAL TO OR BETTER THAN THE PRE-CONSTRUCTION CONDITION.
9. RETAIN THE DUFF LAYER, NATIVE TOPSOIL, AND NATURAL VEGETATION IN AND UNDISTURBED STATE TO THE MAXIMUM EXTENT PRACTICAL.
10. INSPECT SEDIMENT CONTROL BMP'S WEEKLY AT A MINIMUM, DAILY DURING A STORM EVENT, AND AFTER ANY DISCHARGE FROM THE SITE (STORMWATER OR NON-STORMWATER). THE INSPECTION FREQUENCY MAY BE REDUCED TO ONCE A MONTH IF THE SITE IS STABILIZED AND INACTIVE.
11. CONTROL FUGITIVE DUST FROM CONSTRUCTION ACTIVITY IN ACCORDANCE WITH THE STATE AND/OR LOCAL AIR QUALITY CONTROL AUTHORITIES WITH JURISDICTION OVER THE PROJECT AREA.
12. STABILIZE EXPOSED UNWORKED SOILS (INCLUDING STOCKPILES), WHETHER AT FINAL GRADE OR NOT WITHIN 10 DAYS DURING THE REGIONAL DRY SEASON (JULY 1 TO SEPTEMBER 30) AND WITHIN 5 DAYS DURING THE REGIONAL WET SEASON (OCTOBER 1 THROUGH JUNE 30). SOILS MUST BE STABILIZED AT THE END OF A SHIFT BEFORE A HOLIDAY WEEKEND IF NEEDED BASED ON THE WEATHER FORECAST. THE TIME LIMIT MAY ONLY BE ADJUSTED BY A LOCAL JURISDICTION WITH A "QUALIFIED LOCAL PROGRAM," IF IT CAN BE DEMONSTRATED THAT THE RECENT PRECIPITATION JUSTIFIES A DIFFERENT STANDARD AND MEETS THE REQUIREMENTS SET FORTH IN THE CONSTRUCTION STORMWATER GENERAL PERMIT.
13. PROTECT INLETS, DRYWELLS, CATCH BASINS AND OTHER STORMWATER MANAGEMENT FACILITIES FROM SEDIMENT, WHETHER OR NOT FACILITIES ARE OPERABLE.
14. KEEP ROADS ADJACENT TO INLETS CLEAN.
15. INSPECT INLETS WEEKLY AT A MINIMUM AND DAILY FOR STORM EVENTS.
16. CONSTRUCT STORMWATER CONTROL FACILITIES (DETENTION/RETENTION STORAGE POND OR SWALES) BEFORE GRADING BEGINS. THESE FACILITIES SHALL BE OPERABLE BEFORE THE CONSTRUCTION OF IMPERVIOUS SITE IMPROVEMENTS.
17. STOCKPILE MATERIALS (SUCH AS TOPSOIL) ON SITE, KEEPING OFF OF ROADWAY AND SIDEWALKS.
18. COVER, CONTAIN AND PROTECT ALL CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCT, AND NON-INERT WASTES PRESENT ON SITE FROM VANDALISM (SEE CHAPTER 173-304 W.A.C. FOR THE DEFINITION OF INERT WASTE). USE SECONDARY CONTAINMENT FOR ON-SITE FUELING TANKS.
19. CONDUCT MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEMS REPAIRS, SOLVENT AND DE-ICING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES THAT MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO STORMWATER RUNOFF USING SPILL RECOVERY MEASURES, SUCH AS DRAIN PANS, CLEAN ALL CONTAMINATED SURFACES IMMEDIATELY FOLLOWING ANY DISCHARGE OR SPILL INCIDENT. IF RAINING OVER EQUIPMENT OR VEHICLE, PERFORM EMERGENCY REPAIRS ON SITE USING TEMPORARY PLASTIC BENEATH THE VEHICLE.
20. CONDUCT APPLICATION OF AGRICULTURAL CHEMICALS, INCLUDING FERTILIZERS AND PESTICIDES, IN SUCH A MANNER AND AT APPLICATION RATES, THAT INHIBITS THE LOSS OF CHEMICALS INTO STORMWATER RUNOFF FACILITIES. AMEND MANUFACTURER'S RECOMMENDED APPLICATION RATES AND PROCEDURES TO MEET THIS REQUIREMENT, IF NECESSARY.
21. INSPECT ON A REGULAR BASIS (AT A MINIMUM WEEKLY, AND DAILY DURING/AFTER A RUNOFF PRODUCING EVENT) AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL BMP'S TO ENSURE SUCCESSFUL PERFORMANCE OF THE BMP'S. NOTE THAT INLET PROTECTIONS DEVICES SHALL BE CLEANED OR REMOVED AND REPLACED BEFORE SIX INCHES OF SEDIMENT CAN ACCUMULATE.
22. REMOVE TEMPORARY E.S.C. BMP'S WITHIN 30 DAYS AFTER THE TEMPORARY BMP'S ARE NO LONGER NEEDED. PERMANENTLY STABILIZE AREA THAT ARE DISTURBED DURING REMOVAL PROCESS.
23. A DAILY LOG SHALL BE MAINTAINED ONSITE AND AVAILABLE FOR INSPECTION REGARDLESS OF STORM ACTIVITY. THE CONTRACTOR SHALL NOTE CHANGES (DAILY) TO EROSION CONTROL MEASURES. A SITE LOG SHALL BE COMPLETED WITH THE PROJECT PER COSV 55.5.4.

DATUM: NAVD - 88

TEAM 5-0 OF THE SOUTH PONDEROSA SEWER PROJECT
 WITH AN ELEVATION OF 2005 BY INVA029-2009.07
 INVA005 WAS USED FOR THE VERTICAL DATUM FOR THIS MAP.

SCALE:		PROJ #:	13-1166	<input checked="" type="checkbox"/> CIVIL <input type="checkbox"/> STRUCTURAL <input type="checkbox"/> SURVEYING <input type="checkbox"/> TRAFFIC <input type="checkbox"/> PLANNING <input type="checkbox"/> LANDSCAPE <input type="checkbox"/> OTHER
HORIZONTAL:		DATE:	06/23/20	
VERTICAL:		DRAWN:	RMA	
NO DATE		REVIEWED:	TRW	



**SPOKANE VALLEY PAINTED HILLS PRD
 SWPPP STANDARD NOTES
 DISHMAN-MICA RD.
 SPOKANE VALLEY, WA**

PLANS
 NOT APPROVED
 BY AGENCY

City of Spokane Valley
 Project/Permit No.:
 SUB-2015-001
 (Subdivision)
 FPD-2016-007
 (Flood Plain Development)
 EGR-2016-006
 (Engineered Grading)

City of Spokane Valley
 Development Engineering
 Review: _____
 Use Street Name - Public _____
 Not Reviewed
 Reviewed for Conformance to Street Standards and Accepted per Chapter 1.2
 Date Accepted: _____
 Acceptance Comments: _____



SHEET
C9.1
 JOB NUMBER
13-1166

SE₁, SEC. 33, T.25N., R.44E., W.M.
 SW₃, SEC. 34, T.25N., R.44E., W.M.
 NE₂, SEC. 4, T.24N., R.44E., W.M.



BMP C233: SILT FENCE

INFORMATION TAKEN FROM CHAPTER 7 OF THE EASTERN WASHINGTON STORMWATER MANAGEMENT MANUAL 2004 EDITION

PURPOSE: USE OF SILT FENCE REDUCES THE TRANSPORT OF COARSE SEDIMENT FROM A CONSTRUCTION SITE BY PROVIDING A TEMPORARY PHYSICAL BARRIER TO SEDIMENT AND REDUCING THE RUNOFF VELOCITIES OF OVERLAND FLOW. SEE FIGURE 7.3.20 OF THE EASTERN WASHINGTON STORMWATER MANUAL OR DETAIL BELOW FOR DETAILS ON SILT FENCE CONSTRUCTION.

CONDITIONS OF USE: SILT FENCE MAY BE USED DOWN-SLOPE OF ALL DISTURBED AREAS. SILT FENCE IS NOT INTENDED TO TREAT CONCENTRATED FLOWS. NEAR IS INTENDED TO TREAT SUBSTANTIAL AMOUNTS OF OVERLAND FLOW. ANY CONCENTRATED FLOWS MUST BE CONVEYED THROUGH THE DRAINAGE SYSTEM TO A SEDIMENT POND. THE ONLY CIRCUMSTANCE IN WHICH OVERLAND FLOW CAN BE TREATED SOLELY BY A SILT FENCE, RATHER THAN BY A SEDIMENT POND, IS WHEN THE AREA DRAINING TO THE FENCE IS ONE ACRE OR LESS AND FLOW RATES ARE LESS THAN 0.5 CFS.

SILT FENCES SHOULD NOT BE CONSTRUCTED IN STREAMS OR USED IN V-SHAPED DITCHES. THEY ARE NOT AN ADEQUATE METHOD OF SILT CONTROL FOR ANYTHING DEEPER THAN SHEET OR OVERLAND FLOW.

DESIGN AND INSTALLATION: DRAINAGE AREA OF 1 ACRE OR LESS OR IN COMBINATION WITH SEDIMENT BASIN IN A LARGER SITE.

MAXIMUM SLOPE STEEPNESS (NORMAL OR PERPENDICULAR TO FENCE LINE) 1:1.

MAXIMUM SHEET OR OVERLAND FLOW PATH LENGTH TO THE FENCE OF 100 FEET.

NO FLOWS GREATER THAN 0.5 CFS.

THE GEOTEXTILE USED SHALL MEET THE FOLLOWING STANDARDS. ALL GEOTEXTILE PROPERTIES LISTED BELOW ARE MINIMUM AVERAGE ROLL VALUES.

POLYMERIC MESH AOS (ASTM D4751)	0.60MM MAX. FOR SILT WOVENS (#30 SIEVE).
	0.35MM MAX. FOR ALL OTHER GEOTEXTILE TYPES (#60 SIEVE).
	0.5MM MAX. FOR ALL FABRIC TYPES (#100 SIEVE).
WATER PERMEABILITY (ASTM D4491)	0.02/SEC MIN.
GRAB TENSILE STRENGTH (ASTM D4632)	180 LBS. MIN. FOR EXTRA STRENGTH FABRIC.
	100 LBS. MIN. FOR STANDARD STRENGTH FABRIC.
GRAB TENSILE ELONGATION (ASTM D4632)	30% MAX.
ULTRAVIOLET RESISTANCE (ASTM D4332)	70% MIN.

STANDARD STRENGTH FABRICS SHALL BE SUPPORTED WITH WIRE MESH. CHICKEN WIRE, 2-INCH X 2-INCH SAFETY FENCE, OR JUST MESH TO INCREASE THE STRENGTH OF FABRIC. SILT FENCE MATERIALS ARE AVAILABLE THAT HAVE SYNTHETIC MESH BACKING ATTACHED.

FILTER FABRIC MATERIAL SHALL CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF SIX MONTHS OF EXPECTED USAGE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0° TO 120°.

100 PERCENT BIODEGRADABLE SILT FENCE IS AVAILABLE THAT IS STRONG, LONG LASTING, AND CAN BE LEFT IN PLACE AFTER THE PROJECT IS COMPLETED, IF PERMITTED BY LOCAL REGULATIONS.

CONTRACTOR SHALL INSTALL AND MAINTAIN TEMPORARY SILT FENCES AT THE LOCATIONS SHOWN IN THE PLANS. THE SILT FENCE SHALL BE CONSTRUCTED IN THE AREAS OF CLEARING, GRADING, OR DRAINAGE PRIOR TO STARTING THOSE ACTIVITIES.

SILT FENCE SHALL NOT BE CONSIDERED TEMPORARY IF THE SILT FENCE MUST OPERATE BEYOND THE LENGTH OF THE CONTRACT. THE SILT FENCE SHALL PREVENT SOIL CARRIED BY RUNOFF WATER FROM GOING BENEATH, THROUGH, OR OVER THE TOP OF THE SILT FENCE, BUT SHALL ALLOW WATER TO PASS THROUGH THE FENCE.

THE MINIMUM HEIGHT OF THE TOP OF SILT FENCE SHALL BE 2 FEET AND THE MAXIMUM SHALL BE 2.5 FEET ABOVE THE ORIGINAL GROUND SURFACE.

DESIGN AND INSTALLATION: (CONTINUED)

THE GEOTEXTILE SHALL BE SEWN TOGETHER AT THE POINT OF MANUFACTURE, OR AT AN APPROVED LOCATION AS DETERMINED BY THE ENGINEER, TO FORM GEOTEXTILE LENGTHS AS REQUIRED. SEAM SEAMS SHALL BE LOCATED AT A SUPPORT POST. ALTERNATIVELY, TWO SECTIONS OF SILT FENCE CAN BE OVERLAPPED, PROVIDED THE CONTRACTOR CAN DEMONSTRATE TO THE SATISFACTION OF THE ENGINEER, THAT THE OVERLAP IS LONG ENOUGH AND THAT THE ADJACENT FENCE SECTIONS ARE CLOSE ENOUGH TOGETHER TO PREVENT SILT LAIDEN WATER FROM ESCAPING THROUGH THE FENCE AT THE OVERLAP.

THE GEOTEXTILE SHALL BE ATTACHED ON THE UP-SLOPE SIDE OF THE POSTS AND SUPPORT SYSTEM WITH STAPLES, WIRE OR IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE GEOTEXTILE SHALL BE ATTACHED IN A MANNER THAT REDUCES THE POTENTIAL FOR GEOTEXTILE TEARING AT THE STAPLES, WIRE, OR OTHER CONNECTION DEVICE. SILT FENCE BACKUP SUPPORT FOR THE GEOTEXTILE IN THE FORM OF A WIRE OF PLASTIC MESH IS DEPENDENT ON THE PROPERTIES OF THE GEOTEXTILE SELECTED FOR USE. IF WIRE OR PLASTIC BACK-UP MESH IS USED, THE MESH SHALL BE FASTENED SECURELY TO THE UP-SLOPE OF THE POSTS WITH THE GEOTEXTILE BEING UP-SLOPE OF THE MESH BACK SUPPORT.

THE GEOTEXTILE AT THE BOTTOM OF THE FENCE SHALL BE BURIED IN A TRENCH TO A MINIMUM DEPTH OF 4" BELOW THE GROUND SURFACE. THE TRENCH SHALL BE BACKFILLED AND THE SOIL TAMPAED IN PLACE OVER THE BURIED PORTION OF THE GEOTEXTILE, SUCH THAT NO FLOW CAN PASS BENEATH THE FENCE AND SCOURING CAN NOT OCCUR. WHEN WIRE OR POLYMERIC BACK-UP SUPPORT MESH IS USED, THE WIRE OR POLYMERIC MESH SHALL EXTEND INTO THE TRENCH A MINIMUM OF 3".

THE FENCE POSTS SHALL BE PLACED OR DRIVEN A MIN. OF 18", A MIN. DEPTH OF 12" IS ALLOWED IF TOPSOIL OR OTHER SOFT SUBGRADE SOIL IS NOT PRESENT AND A MIN. DEPTH OF 18" CANNOT BE REACHED. FENCE POST DEPTH SHALL BE INCREASED 6" IF THE FENCE IS LOCATED ON SLOPES OF 3:1 OR STEEPER AND THE SLOPE IS PERPENDICULAR TO THE FENCE. IF REQUIRED POST DEPTH CANNOT BE OBTAINED, THE POSTS SHALL BE ADEQUATELY SECURED BY BRACING OR CUTTING TO PREVENT OVERTURNING OF THE FENCE DUE TO SEDIMENT LOADING.

SILT FENCES SHALL BE LOCATED ON CONTOUR AS MUCH AS POSSIBLE, EXCEPT AT THE ENDS OF THE FENCE WHERE THE FENCE SHALL BE TURNED UP-SLOPE SUCH THAT THE SILT FENCE CAPTURES THE RUNOFF WATER AND PREVENTS WATER FROM FLOWING AROUND THE END OF THE FENCE.

IF THE FENCE MUST CROSS CONTOURS, WITH THE EXCEPTION OF THE END OF THE FENCE, GRAVEL CHECK DAMS PLACED PERPENDICULAR TO THE BACK OF THE FENCE SHALL BE USED TO MINIMIZE CONCENTRATED FLOW AND EROSION ALONG THE BACK OF THE FENCE. THE GRAVEL CHECK DAMS SHALL BE APPROXIMATELY 1' HIGH. THE TOP OF THE FENCE, IT SHALL BE CONTINUED PERPENDICULAR TO THE FENCE AT THE SAME ELEVATION UNTIL THE TOP OF THE CHECK DAM INTERSECTS THE FENCE. THE CONTOUR OF THE FENCE SHALL BE THE GRAVEL CHECK DAMS SHALL CONSIST OF CRUSHED SURFACING TOP COURSE GRAVEL BACKFILL FOR WALLS, OR SHOULDER BALLAST. THE GRAVEL CHECK DAMS SHALL BE LOCATED EVERY 10' ALONG THE FENCE WHERE THE FENCE MUST CROSS THE CONTOURS. THE SLOPE OF THE FENCE LINE WHERE THE CONTOURS MUST BE CROSSED SHALL NOT BE STEEPER THAN 3:1.

WOOD, STEEL OR EQUIVALENT POSTS SHALL BE USED. WOOD POSTS SHALL HAVE MINIMUM DIMENSIONS OF 2"x2"x1/2" MIN. LENGTH, AND SHALL BE CUTTED SUCH AS KNIVES, SPLITS, OR GAGES. STEEL POSTS SHALL CONSIST OF EITHER SIZE NO. 6 REBAR OR LARGER, ASTM A 130 STEEL PIPE WITH A MIN. DIAMETER, OR 1-INCH, U, T, L, OR C SHAPE STEEL. POSTS WITH A MIN. WEIGHT OF 1.35 LBS./FT. OR OTHER STEEL POSTS HAVING EQUIVALENT STRENGTH AND BENDING RESISTANCE TO THE POST SIZES LISTED. THE SPACING OF THE SUPPORTS POSTS SHALL BE A MAXIMUM OF 6'.

FENCE BACK-UP SUPPORT, IF USED, SHALL CONSIST OF STEEL WIRE WITH A MAX. MESH SPACING OF 2", OR A PREFABRICATED POLYMERIC MESH. THE STRENGTH OF WIRE OR POLYMERIC MESH SHALL BE EQUIVALENT TO OR GREATER THAN 180 LBS. GRAB TENSILE STRENGTH. THE POLYMERIC MESH MUST BE AS RESISTANT TO ULTRAVIOLET RADIATION AS THE GEOTEXTILE IT SUPPORTS.

SILT FENCE INSTALLATION USING THE SLICING METHOD SPECIFICATION DETAILS FOLLOW.

THE BASE OF BOTH END POSTS MUST BE AT LEAST 2'-4" ABOVE THE TOP OF THE SILT FENCE FABRIC ON THE MIDDLE POSTS FOR DITCH CHECKS TO DRAIN PROPERLY. USE A HAND LEVEL OR STRING LEVEL, IF NECESSARY, TO MARK BASE POINTS BEFORE INSTALLATION.

INSTALL POSTS 3'-4' APART IN CRITICAL RETENTION AREAS, AND 6'-7' APART IN STANDARD APPLICATIONS.

INSTALL POSTS 24" DEEP ON THE DOWNSTREAM SIDE OF THE SILT FENCE, AND AS CLOSE AS POSSIBLE TO THE FABRIC. ENABLING POSTS TO SUPPORT THE FABRIC FROM THE UPSTREAM WATER PRESSURE.

INSTALL POSTS WITH NIPPLES FACING AWAY FROM THE SILT FENCE FABRIC.

ATTACH THE FABRIC TO EACH POST WITH THREE TIES, ALL SPACED WITH THE TOP 6" OF THE FABRIC. ATTACH EACH TIE DIAGONALLY 45 DEGREES THROUGH THE FABRIC, WITH EACH PUNCTURE AT LEAST 1" HIGH VERTICALLY APART. IN ADDITION, EACH TIE SHOULD BE POSITIONED TO HANG ON A POST NIPPLE WHEN TIGHTENING TO PREVENT SAGGING.

WRAP APPROXIMATELY 6 INCHES OF FABRIC AROUND THE END POSTS AND SECURE WITH 3 TIES.

NO MORE THAN 24" OF A 36" FABRIC IS ALLOWED ABOVE GROUND LEVEL.

THE ROPE LOCK SYSTEM MUST BE USED IN ALL DITCH CHECK APPLICATIONS.

THE INSTALLATION SHOULD BE CHECKED AND CORRECTED FOR ANY DEVIATION BEFORE COMPLETION. USE A FLAT-BLADED SHOVEL TO TUCK FABRIC DEEPER INTO THE GROUND IF NECESSARY.

COMPACTION IS VITALLY IMPORTANT FOR EFFECTIVE RESULTS. COMPACT THE SOIL IMMEDIATELY NEXT TO THE SILT FENCE WITH THE FRONT WHEEL OF A TRACTOR, SOLO STEER, OR ROLLER EXERCISING 40 PSI. COMPACT THE UPSTREAM SIDE FIRST AND THEN EACH SIDE TWICE FOR A TOTAL OF FOUR TRIPS.

ANY DAMAGE SHALL BE REPAIRED IMMEDIATELY.

IF CONCENTRATED FLOWS ARE EVIDENT UP-HILL OF THE FENCE, THEY MUST BE INTERCEPTED AND CONVEYED TO A SEDIMENT POND.

IT IS IMPORTANT TO CHECK THE UP-HILL SIDE OF THE FENCE FOR SIGNS OF THE FENCE CLOSING AND ACTING AS A BARRIER TO FLOW AND THEN CAUSING CHANNELING OF THE FLOWS PARALLEL TO THE FENCE, IF THIS OCCURS, REPLACE THE FENCE OR REMOVE THE TRAPPED SEDIMENT.

SEDIMENT DEPOSITS SHALL EITHER BE REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY ONE-THIRD THE HEIGHT OF THE SILT FENCE, OR A SECOND SILT FENCE IS INSTALLED.

IF THE FILTER FABRIC OR GEOTEXTILE HAS DETERIORATED DUE TO ULTRAVIOLET BREAKDOWN, IT SHALL BE REPLACED.

BMP C105: STABILIZED CONSTRUCTION ENTRANCE

INFORMATION TAKEN FROM CHAPTER 7 OF THE EASTERN WASHINGTON STORMWATER MANAGEMENT MANUAL 2004 EDITION

PURPOSE: CONSTRUCTION ENTRANCES ARE STABILIZED TO REDUCE THE AMOUNT OF SEDIMENT TRANSPORTED ONTO PAVED ROADS BY VEHICLES OR EQUIPMENT BY CONSTRUCTING A STABILIZED PAD OF QUARRY SPALLS AT ENTRANCES TO CONSTRUCTION SITES.

CONDITIONS OF USE: CONSTRUCTION ENTRANCES SHALL BE STABILIZED WHEREVER TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE AND TRAVELING ON PAVED ROADS OR OTHER PAVED AREAS WITHIN 1,000 FEET OF THE SITE.

ON LARGE COMMERCIAL, HIGHWAY, AND ROAD PROJECTS, THE DESIGNER AND/OR CONTRACTOR SHOULD INCLUDE ENOUGH MATERIALS IN THE CONTRACT TO ALLOW FOR ADDITIONAL STABILIZED ENTRANCES NOT SHOWN IN THE INITIAL CONSTRUCTION SWPPP. IT IS DIFFICULT TO DETERMINE EXACTLY WHERE ACCESS TO THESE PROJECTS WILL TAKE PLACE. ADDITIONAL MATERIALS WILL ENABLE THE CONTRACTOR TO INSTALL THEM WHERE NEEDED.

DESIGN AND INSTALLATION: SEE FIGURE 7.3.2 OF THE EASTERN WATER STORMWATER MANAGEMENT MANUAL, OR DETAIL BELOW.

THE SURFACE MATERIAL SHALL BE 4"-8" QUARRY SPALLS. SMALLER CRUSHED ROCK SUCH AS BASE COURSE MAY BE APPROPRIATE IN SOME SITUATIONS BUT, SINCE IT IS MORE LIKELY TO BE TRACKED OFF-SITE, MUST BE APPROVED BY THE LOCAL JURISDICTION.

A SEPARATION GEOTEXTILE SHALL BE PLACED UNDER THE SPALLS TO PREVENT FINE SEDIMENT FROM PUMPING UP INTO THE ROAD PAD. THE GEOTEXTILE SHALL MEET THE FOLLOWING STANDARDS:

GRAB TENSILE STRENGTH (ASTM D4751)	200 PFS MIN.
GRAB TENSILE ELONGATION (ASTM D4632)	30% MAX.
MULLEN BURST STRENGTH (ASTM D3786-80A)	400 PFS MIN.
AOS (ASTM D4751)	20-45 (U.S. STANDARD SIEVE SIZE)

IF SITE CONDITIONS DO NOT WARRANT THE USE OF GEOTEXTILE, IT IS NOT REQUIRED.

MAINTENANCE STANDARDS: IF QUARRY SPALLS (OR HOQ FUEL) SHALL BE ADDED IF THE PAD IS NO LONGER IN ACCORDANCE WITH THE SPECIFICATIONS.

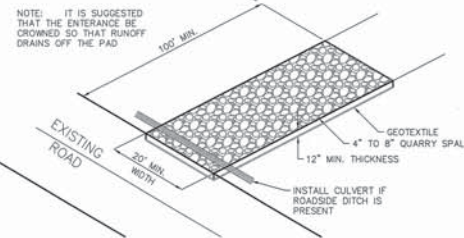
IF THE ENTRANCE IS NOT PREVENTING SEDIMENT FROM BEING TRACKED ONTO PAVEMENT, THEN ALTERNATIVE MEASURES TO KEEP THE STREETS FREE OF SEDIMENT SHALL BE USED. THIS MAY INCLUDE STREET SWEEPING, AN INCREASE IN THE DIMENSIONS OF THE ENTRANCE, OR THE INSTALLATION OF A WHEEL WASH.

ANY SEDIMENT THAT IS TRACKED ONTO PAVEMENT SHALL BE REMOVED BY SHOVELING OR STREET SWEEPING. THE SEDIMENT COLLECTED BY SWEEPING SHALL BE REMOVED AND STABILIZED ON SITE. THE PAVEMENT SHALL NOT BE CLEANED BY WASHING DOWN THE STREET, EXCEPT WHEN SWEEPING IS INEFFECTIVE AND THERE IS A THREAT TO PUBLIC SAFETY. IF IT IS NECESSARY TO WASH THE STREETS, THE CONSTRUCTION OF A SMALL SUMP SHALL BE CONSIDERED. THE SEDIMENT WOULD THEN BE WASHED INTO THE SUMP WHERE IT CAN BE COLLECTED.

ANY QUARRY SPALLS THAT ARE LOOSENED FROM THE PAD, WHICH END UP ON THE ROADWAY SHALL BE REMOVED IMMEDIATELY.

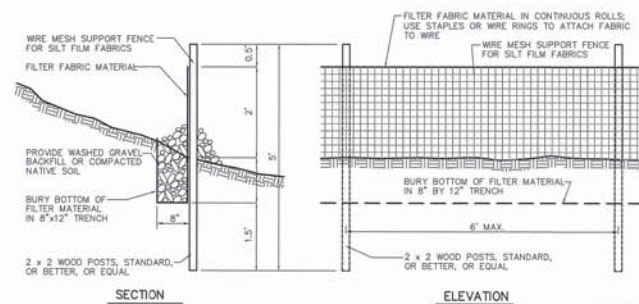
IF VEHICLES ARE ENTERING OR EXITING THE SITE AT POINTS OTHER THAN THE CONSTRUCTION ENTRANCES, FENCING (SEE BMPs C103 AND C104) SHALL BE INSTALLED TO CONTROL TRAFFIC.

UPON PROJECT COMPLETION AND SITE STABILIZATION, ALL CONSTRUCTION ACCESSES INTENDED AS PERMANENT ACCESS FOR MAINTENANCE SHALL BE PERMANENTLY STABILIZED.



ROCK CONSTRUCTION ENTRY

NOT TO SCALE



SILT FENCE DETAIL

NOT TO SCALE

MAINTENANCE STANDARDS:



DATUM: NAVD - 88

TBM 5-6 OF THE SOUTH PONDEROSA SEWER PROJECT WITH AN ELEVATION OF 2005.87 (NAVD2011) - 2005.87 (NAVD) WAS USED FOR THE VERTICAL DATUM FOR THIS MAP.

NO.	DATE	BY	REVISIONS
3	06-22-20	JMH	REVISED PLANS
2	08-14-18	JPP	REVISED PLANS
1	08-18-18	JPP	ORIGINAL PREPARATION

SCALE:

HORIZONTAL: N/A
 VERTICAL: N/A

PROJ #: 13-1166

DATE: 06/23/20

DRAWN: RMA

REVIEWED: TRW

SCALE	PROJ #	DATE	DRAWN	REVIEWED
SCALE	13-1166	06/23/20	RMA	TRW



SPOKANE VALLEY PAINTED HILLS PRD SWPPP BMPs
DISHMAN-MICA RD.
SPOKANE VALLEY, WA

PLANS NOT APPROVED BY AGENCY

City of Spokane Valley
 Project/Permit No.:
 SUB-2015-0061 (Subdivision)
 PFD-2016-0007 (Flood Plain Development)
 EGR-2016-0066 (Engineered Grading)

City of Spokane Valley
 Development Engineering

Review:
 Use Street: Private Public

Not Reviewed
 Reviewed for Conformance to Street Maintenance and Accepted per Chapter 1.2
 Date Accepted:
 Acceptance Comments:

City of Spokane Valley
 PROFESSIONAL ENGINEER
 1/14/2020

SHEET C9.2
 JOB NUMBER 13-1166

WCE GENERAL NOTES

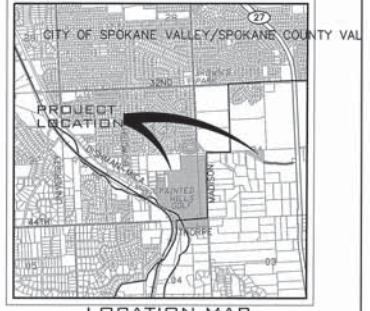
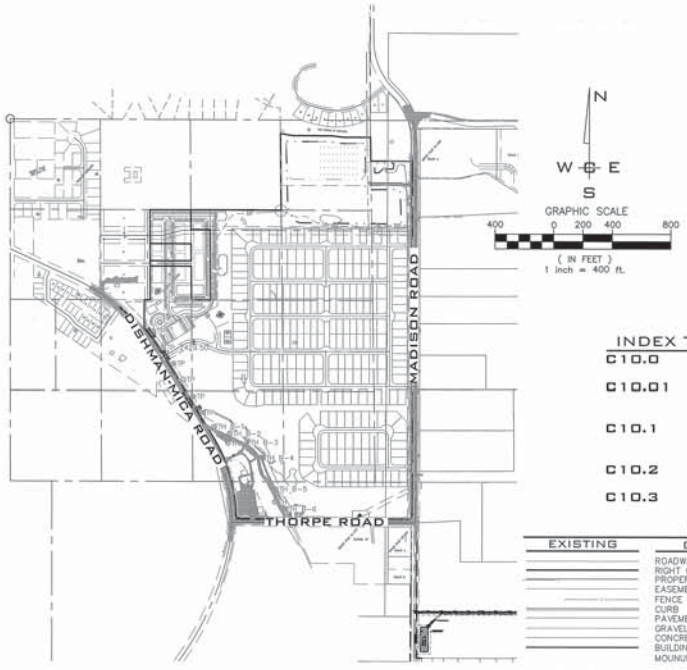
- ALL MATERIALS, WORKMANSHIP, AND CONSTRUCTION OF SITE IMPROVEMENTS SHALL MEET OR EXCEED THE WSDOT /APWA STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION CURRENT EDITION AS MODIFIED BY THE STANDARDS AND SPECIFICATIONS SET FORTH IN THE CITY OF SPOKANE VALLEY/SPOKANE COUNTY REGULATIONS AND OTHER 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 CITY OF SPOKANE VALLEY/SPOKANE COUNTY INSPECTOR. INSPECTION SERVICES AND CONSTRUCTION CERTIFICATION TO BE PROVIDED BY DESIGNEE OF PROJECT SPONSOR/OWNER.
- 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 SHALL CALL THE UTILITY LOCATION CENTER AT LEAST 72 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL APPLICABLE AGENCIES. THE CONTRACTOR SHALL NOTIFY THE CITY OF SPOKANE VALLEY/SPOKANE COUNTY INSPECTOR AT LEAST 48 HOURS PRIOR TO THE START OF ANY EARTH DISTURBING ACTIVITY OR CONSTRUCTION ON ANY AND ALL PUBLIC IMPROVEMENTS.
- THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE CITY OF SPOKANE VALLEY/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.
- 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY INCLUDING, BUT NOT LIMITED TO: EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, AND SECURITY.
- 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.
- ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.
- FOR WORK AFFECTING PUBLIC ROADWAYS OR IF REQUIRED BY THE CITY OF SPOKANE VALLEY/SPOKANE COUNTY, THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL AND PHASING PLAN IN ACCORDANCE WITH MUTCD'S 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 CITY OF SPOKANE VALLEY/SPOKANE COUNTY.
- 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.
- PER AGENCY STANDARDS THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ROADWAYS FREE AND CLEAR OF ALL CONSTRUCTION DEBRIS AND DIRT TRACKED FROM THE SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING RECORD INFORMATION ON A SET OF RECORD DRAWINGS KEPT AT THE CONSTRUCTION SITE AND AVAILABLE TO THE CITY OF SPOKANE VALLEY/SPOKANE COUNTY INSPECTOR AT ALL TIMES.
- 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.
- 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 AREA IS STABILIZED WITH HARD SURFACE OR LANDSCAPING.
- 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.
- ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY IS SUBJECT TO THE JURISDICTION OF THE CITY OF SPOKANE VALLEY/SPOKANE COUNTY ENGINEERING DEPARTMENT STANDARD DETAILS AND SPECIFICATIONS.
- 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 CITY OF SPOKANE VALLEY/SPOKANE COUNTY.
- BASED ON REQUIREMENTS FROM CITY OF SPOKANE VALLEY/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 CITY OF SPOKANE VALLEY/SPOKANE COUNTY ENGINEER.
- NO REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT APPROVAL OF THE CITY OF SPOKANE VALLEY/SPOKANE COUNTY ENGINEERS AND NOTIFICATION OF THE ENGINEER OF RECORD.
- 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 PRE-APPROVED SOURCE/DESTINATION AND COORDINATED WITH THE CITY OF SPOKANE VALLEY/SPOKANE COUNTY DEPARTMENT OF BUILDING AND PLANNING AT 509-720-5240 & 509-477-3672. 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 PLANS, DESIGNATED DRAINAGE WAYS, ETC.
- THE CONTRACTOR IS CAUTIONED THAT IT IS THE UNDERSTANDING OF THE OWNER AND THE ENGINEER THAT INCLUDING A CONFLICT OR DISCREPANCY IN THESE PLANS, SPECIFICATIONS, GENERAL NOTES OR PLANS E.T.A.L. 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.
- 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.
- DURING CONSTRUCTION THE CONTRACTOR IS RESPONSIBLE TO COORDINATE ANY AND ALL INCONSISTENCIES BETWEEN THESE PLANS AND CONSTRUCTION STAKING. CONTRACTOR ASSUMES RESPONSIBILITY TO CONSTRUCT 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.
- 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.
- ALL FIRE LINES MUST BE INSTALLED BY AN APPROVED LEVEL "U" CONTRACTOR OR A LEVEL 3 FIRE PROTECTION CONTRACTOR.
- CONTRACTOR IS NOTIFIED THAT SOME OR ALL OF THE PAVEMENT TYPES TO INSTALL DRY UTILITIES, SEWER, WATER, STORM OR OTHER TIE-INS SHALL BE COORDINATED WITH THE CITY OF SPOKANE VALLEY/SPOKANE COUNTY AS SPECIFIC PAVEMENT OUT POLICIES MAY BE IN EFFECT THAT ARE NOT NOTED ON THE PLANS.
- THE CONTRACTOR IS NOTED THAT IT IS NOT THE OWNERS, ENGINEERS, CITY'S NOR THE INSPECTION AND TESTING COMPANY'S (THE PARTIES) RESPONSIBILITY TO ANTICIPATE WHEN CONSTRUCTED ELEMENTS WILL BE INSPECTED AND TESTING. THE CONTRACTOR IS RESPONSIBLE TO NOTIFY ALL PARTIES THAT CERTAIN CONSTRUCTED ELEMENTS ARE BEING INSTALLED AND ON WHAT DATE THEY WILL BE INSTALLED. IF SUCH FAILURE TO NOTIFY THEN RESULTS IN LACK OF INSPECTIONS AND TESTING SERVICES FOR CERTAIN ELEMENTS, THE CONTRACTOR SHOULD NOT EXPECT THAT THIS LACK OF INSPECTION AND TESTING SERVICES WILL BE THE RESULT IN ANY MANNER. THE CONTRACTOR IS NOTIFIED THAT SUBSEQUENT REMOVAL AND RECONSTRUCTION OF SUCH ELEMENTS IS TO BE BORNE BY THE CONTRACTOR AND OR THEIR SUB-CONTRACTOR PROVIDING THE SERVICE AND THE INSTALLATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE SURE THAT ALL PARTIES ARE ADEQUATELY NOTIFIED, NOTIFICATION WILL BE BY TWO MEANS FOR EACH REQUEST/OCCURRENCE. THE ACCEPTABLE MEANS ARE AS FOLLOWS: EMAIL, TEXT, FAX OR PHONE. NOTIFICATION SHALL EXCESSIVE STANDBY TIME ON THE PART OF THE PARTIES MAY RESULT IN A BACK CHARGE TO THE CONTRACTOR.

SE 1/4, SEC. 33, T.25N., R.44E., W.M.
SW 1/4, SEC. 34, T.25N., R.44E., W.M.
NE 1/4, SEC. 4, T.24N., R.44E., W.M.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL 24 HOURS A DAY
BEFORE YOU DIG

**SIGNING & STRIPING PLANS
PAINTED HILLS FLOOD CONTROL PLANS**

LOCATED IN A PORTION OF
SE 1/4, SEC. 33, T.25N., R. 44E., W.M.
CITY OF SPOKANE VALLEY/SPOKANE COUNTY VALLEY, WA



INDEX TO PLAN SHEETS

C10.0	SIGNING & STRIPING COVER SHEET
C10.01	WCE CHANNELIZATION & SIGNING NOTES
C10.1	DISHMAN MICA RD SIGNING & STRIPING
C10.2	THORPE RD SIGNING & STRIPING
C10.3	MADISON RD SIGNING & STRIPING

LEGEND

EXISTING	GENERAL	PROPOSED
---	ROADWAY CENTER LINE	---
---	RIGHT OF WAY LINE	---
---	PROPERTY LINE	---
---	EASEMENT LINE	---
---	FENCE	---
---	CURB	---
---	PAVEMENT	---
---	GRAVEL	---
---	CONCRETE	---
---	BUILDINGS & STRUCTURES	---
---	MOUNDMENT	---
---	TRAFFIC SIGN	---

- | | | | | |
|---|---|---|--|--|
| <p>PERMIT SPECIALIST
CITY OF SPOKANE VALLEY/SPOKANE COUNTY VALLEY
FERRIS CENTER
10210 E. SPRAGUE AVE
SPOKANE, WA 99206
PHONE: 720-5240</p> <p>DEV. CONST. INSP.
CITY OF SPOKANE VALLEY/SPOKANE COUNTY VALLEY
10210 E. SPRAGUE AVE
SPOKANE, WA 99206
PHONE: 509-599-6306
CONTACT: TYSON SCHROEDER</p> <p>CABLE
COMCAST BROADBAND
1717 E BUONICCONTI AVE
SPOKANE, WA 99207
CONTACT: BRYAN RICHARDSON</p> | <p>SEWER
SPOKANE COUNTY ENVIRONMENTAL SERVICES
1026 W BROADWAY AVE
SPOKANE, WA 99206
CONTACT: CHRIS KNUDSON</p> <p>HEALTH
SPOKANE REGIONAL HEALTH
1101 W COLLEGE AVE
SPOKANE, WA 99220
PHONE: 324-1578
CONTACT: PAUL LUISE</p> <p>SOLID WASTE
WASTE MANAGEMENT
PHONE: 1-888-909-4558</p> | <p>WATER
SPOKANE COUNTY WATER DISTRICT #3
1225 N YARDLEY ST
SPOKANE, WA 99212
PHONE: 336-0121
CONTACT: JUSTIN VAN DYKE</p> <p>GAS
AVISTA UTILITIES
1411 E MISSION AVE
SPOKANE, WA 99220
PHONE: 495-2967
CONTACT: JOHN LUISE</p> <p>INSPECTION
I.P.E.C.
3012 N SULLIVAN ROAD, STE D
SPOKANE, VALLEY, WA 99206
PHONE: 299-6862
CONTACT: PAUL FRITH</p> | <p>FIRE
SPOKANE VALLEY FIRE DEPT.
2120 N WILBUR RD
SPOKANE, VALLEY, WA 99206
PHONE: 928-1700
CONTACT: MIKE MAKELA</p> <p>POWER
INLAND POWER & LIGHT CO.
10100 W HALLETT RD
SPOKANE, WA 99224
PHONE: 509-789-4291
CONTACT: CONNIE NELSON</p> <p>SURVEYOR
WHIPPLE CONSULTING ENGINEERS
21 S. PINES RD
SPOKANE, VALLEY, WA 99206
PHONE: 893-2617
CONTACT: DAVID COWELL, P.L.S.</p> | <p>ROADWAYS
CITY OF SPOKANE VALLEY/SPOKANE COUNTY VALLEY
10210 E SPRAGUE AVE
SPOKANE, VALLEY, WA 99206
PHONE: 720-5008</p> <p>OWNER
BLACK REALTY, INC.
107 S HOWARD ST
SPOKANE, WA 99201
PHONE: 623-1000
CONTACT: BRYAN WALKER</p> <p>TELEPHONE
CENTURY LINK
904 N COLUMBUS ST
SPOKANE, WA 99202
PHONE: 835-4004
CONTACT: MARK WELCH</p> <p>ENGINEERING
WHIPPLE CONSULTING ENGINEERS
21 S. PINES RD
SPOKANE, VALLEY, WA 99206
PHONE: 893-2617
CONTACT: TODD R. WHIPPLE, P.E.</p> |
|---|---|---|--|--|

City of Spokane Valley
Project/Permit No.:

SUB-2015-0061
(Sub-Division)
FPD-2016-0007
(Flood Plain Development)
EOR-2016-0066
(Engineered Grading)

City of Spokane Valley
Development/Engineering

Revised: _____
See Street View - Public _____

Not Reviewed
 Reviewed for Conformance to Street Standards and Accepted per Chapter 1.3
Date Accepted: _____
Acceptance Comments: _____

PLANS NOT APPROVED BY AGENCY

DATUM: NAVD - 88 INCLUDE ELEMENT, DATE AND CONSTRUCTION START TIME.
EXCESSIVE STANDBY TIME ON THE PART OF THE PARTIES MAY RESULT IN A BACK CHARGE TO THE CONTRACTOR.

TM 5-S OF THE SOUTH PONDEROSA SEWER PROJECT WITH AN ELEVATION OF 2005.87 (NAV029) +2009.67
(NAVD88) WAS USED FOR THE VERTICAL DATUM FOR THIS MAP.

NO.	DATE	BY	REVISIONS
3	08/22/20	JMH	REVISED PLANS
2	08-14-18	JPP	REVISED PLANS
1	08-12-18	JPP	ORIGINAL PREPARATION

SCALE:

HORIZONTAL: 1"=400'

VERTICAL: N/A

PROJ #: 13-1168

DATE: 08/23/20

DRAWN: STT

REVIEWED: TRW

LOCAL SURVEYING

PLANNING

LANDSCAPE

OTHER

WCE

WHIPPLE CONSULTING ENGINEERS
208 NORTH BULLHAWK ROAD
SPOKANE VALLEY, WA 99216
PH: 509-833-2617 FAX: 509-833-2027

**SPOKANE VALLEY PAINTED HILLS PRD
SIGNING & STRIPING COVER SHEET**

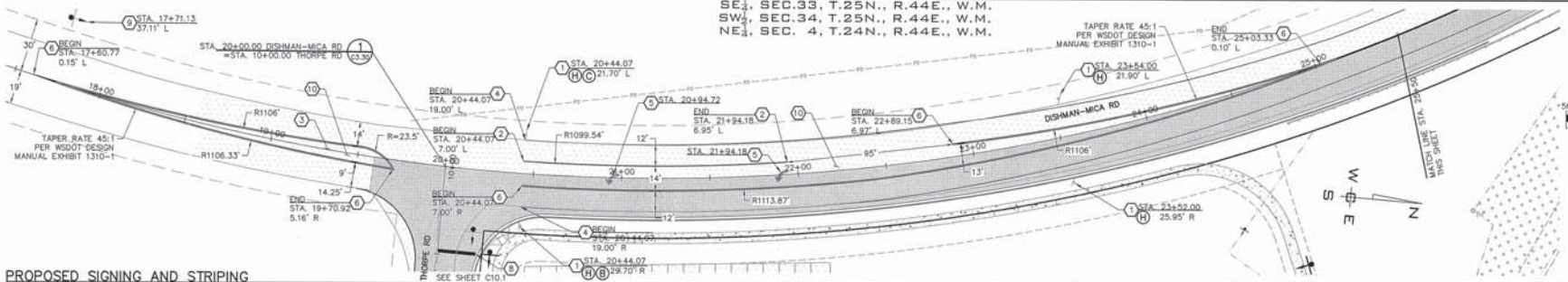
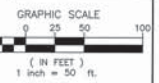
**DISHMAN-MICA RD.
SPOKANE VALLEY, WA**

SHEET C10.0

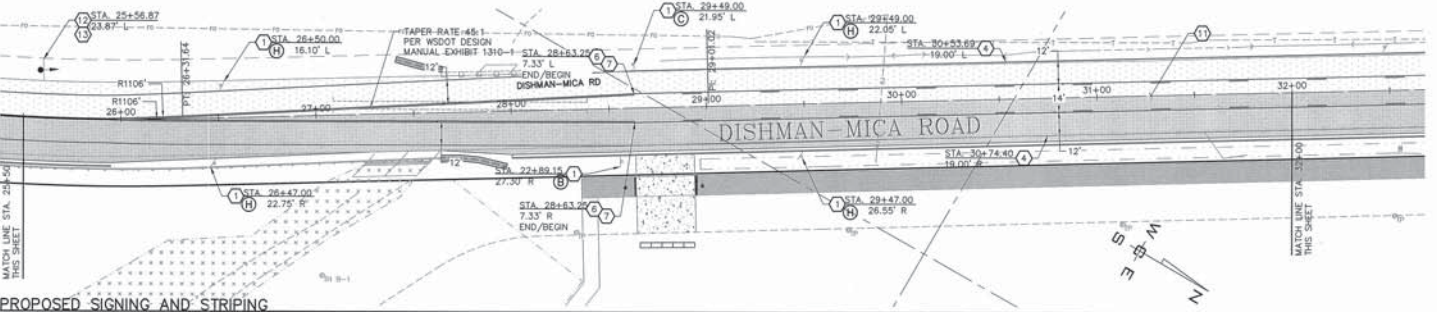
JOB NUMBER
13-1166

SE 1/4, SEC. 33, T.25N., R.44E., W.M.
 SW 1/4, SEC. 34, T.25N., R.44E., W.M.
 NE 1/4, SEC. 4, T.24N., R.44E., W.M.

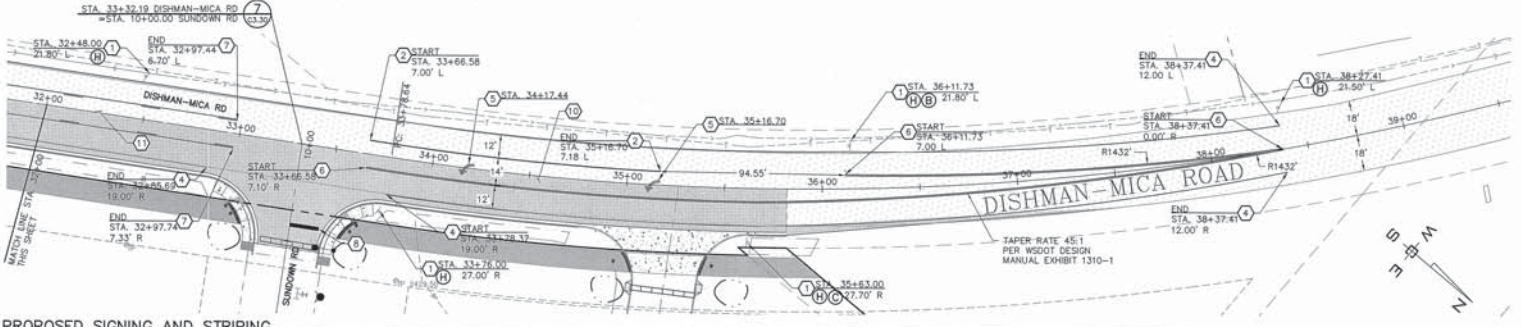
UNDERGROUND SERVICE ALERT
 ONE-CALL NUMBER
811
 CALL TWO BUSINESS DAYS
 BEFORE YOU DIG



PROPOSED SIGNING AND STRIPING
 SCALE: 1"=30'



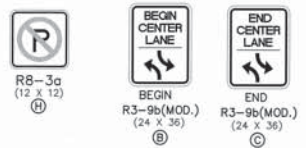
PROPOSED SIGNING AND STRIPING
 SCALE: 1"=30'



PROPOSED SIGNING AND STRIPING
 SCALE: 1"=30'

CONSTRUCTION NOTES

- 1 PROVIDE AND INSTALL TRAFFIC SIGN(S) INDICATED PER CITY OF SPOKANE VALLEY/SPOKANE COUNTY VALLEY STANDARD PLAN R-140 AND CURRENT MUTCD STANDARDS. SEE PLAN VIEW FOR DETAILS.
- 2 PROVIDE AND INSTALL TYPE B THERMOPLASTIC 8" WIDE WHITE TURN LANE LINE PER WSDOT STANDARD PLAN M-20.10-02 AND 8-22 PAVEMENT MARKING SPECIFICATIONS.
- 3 PROVIDE AND INSTALL PAINTED SPLITTER ISLAND PER WSDOT STANDARD SECTION 1320.04(2)(D) AND 8-22 PAVEMENT MARKING SPECIFICATIONS.
- 4 PROVIDE AND INSTALL TYPE B THERMOPLASTIC 4" WIDE WHITE EDGE LINE PER CITY OF SPOKANE VALLEY/SPOKANE COUNTY VALLEY STANDARDS AND WSDOT STANDARD PLAN M-20.10-02 AND 8-22 PAVEMENT MARKING SPECIFICATIONS.
- 5 PROVIDE AND INSTALL TYPE B, THERMOPLASTIC TRAFFIC ARROWS AS SHOWN PER WSDOT STANDARD PLAN M-24.40-02.
- 6 PROVIDE AND INSTALL TYPE B THERMOPLASTIC 4" DOUBLE YELLOW LANE LINE PER CITY OF SPOKANE VALLEY/SPOKANE COUNTY VALLEY STANDARDS AND WSDOT STANDARD PLAN M-20.10-02 AND 8-22 PAVEMENT MARKING SPECIFICATIONS. SEE PLAN VIEW FOR DETAILS.
- 7 PROVIDE AND INSTALL TYPE B THERMOPLASTIC 4" TWO WAY LEFT TURN DOUBLE YELLOW LANE LINE PER CITY OF SPOKANE VALLEY/SPOKANE COUNTY VALLEY STANDARDS AND WSDOT STANDARD PLAN M-20.10-02 AND 8-22 PAVEMENT MARKING SPECIFICATIONS. SEE PLAN VIEW FOR DETAILS. SKIP STRIPINGS TO BE 30' LONG WITH 10' GAPS.
- 8 PROVIDE AND INSTALL 2" WIDE STOP BAR PER CITY OF SPOKANE VALLEY/SPOKANE COUNTY VALLEY STANDARDS AND SPECIFICATIONS AND WSDOT STANDARD PLAN M-24.60-04 AND 8-22 PAVEMENT MARKING SPECIFICATIONS.
- 9 CONTRACTOR TO PROTECT EXISTING R2-1 "45 MPH SPEED LIMIT" SIGN.
- 10 LEFT TURN CHANNELIZATION TEE INTERSECTION PER WSDOT STANDARD PLAN M-330-30.
- 11 CENTER TURN LANE.
- 12 CONTRACTOR TO PROTECT EXISTING W2-2L "SIDE ROAD INTERSECTION" SIGN.
- 13 CONTRACTOR TO PROTECT EXISTING R2-1 "35 MPH SPEED LIMIT" SIGN.



GENERAL NOTES SIGNING & STRIPING

1. PAINT SHOULD BE SWARCO 1160/1166 OR SHERWIN WILLIAMS TM 2238/2239.
2. FOG SEAL PER WSDOT 5-02 SPECIFICATIONS. SEE PLAN FOR LIMITS.
3. CONTRACTOR TO OBLITERATE EXISTING STRIPING BY A NON-MECHANICAL METHOD, SUCH AS WATER BLASTING OF EXISTING STRIPING.
4. TYPE B THERMOPLASTIC TO BE USED.
5. FOG SEAL PAVEMENT PER WSDOT 5-02 BITUMINOUS SURFACE TREATMENT.
6. PAINTED SPLITTER ISLAND PER WSDOT STANDARD SECTION 1320.04(2)(D).
7. LONGITUDINAL PAVEMENT MARKING PER WSDOT STANDARD PLAN M-20.10-02. COLOR AND TYPE PER PLAN.
8. PAVEMENT MARKING TO BE PER WSDOT 8-22 PAVEMENT PARKING SPECIFICATIONS.

PLANS NOT APPROVED BY AGENCY

City of Spokane Valley
 SUB-2016-0001
 (Sub-division)
 PRD-2016-0007
 (Final Flood Development)
 EGR-2016-0006
 (Engineered Grading)

City of Spokane Valley
 Development Engineering

Reviewed: _____
 Not Reviewed: _____

Reviewed for Conformance to Street Standards and Accepted per Chapter 1.2
 Date Accepted: _____
 Acceptance Comments: _____

SPokane Valley Professional Engineer
 License No. 14502200

DATUM: NAVD - 88
 TBM 5-5 OF THE SOUTH PONDEROSA SEWER PROJECT WITH AN ELEVATION OF 2005.87 (NAVD2011) = 2009.87 (NAVD88) WAS USED FOR THE VERTICAL DATUM FOR THIS MAP.

NO.	DATE	BY	DESCRIPTION
3	08-22-20	JMH	REVISED PLANS
2	08-14-18	JPP	REVISED PLANS
1	08-12-16	JPP	ORIGINAL PREPARATION

SCALE:	1"=30'
HORIZONTAL:	1"=30'
VERTICAL:	NA

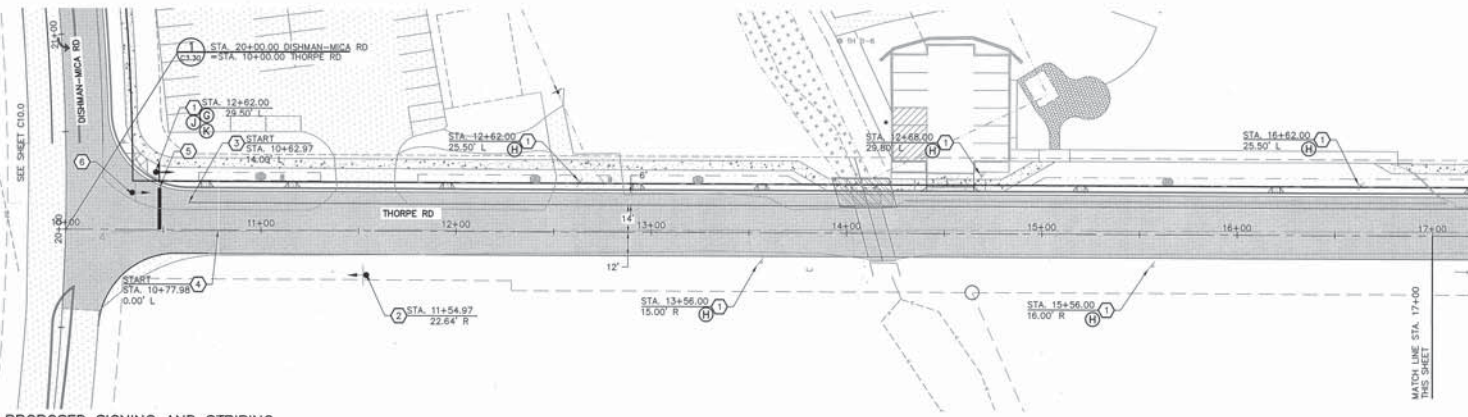
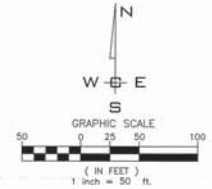
PROJ #:	13-1166
DATE:	08/23/20
DRAWN:	JPP
REVIEWED:	TRW

IWCE
 WHITELY CONSULTING ENGINEERS
 2025 NORTH SULLIVAN ROAD
 SPOKANE VALLEY, WA 99216
 PH: 509-893-9517 FAX: 509-893-0227

**SPOKANE VALLEY PAINTED HILLS PRD
 DISHMAN-MICA RD SIGNING & STRIPING
 DISHMAN-MICA RD.
 SPOKANE VALLEY, WA**

SHEET C10.1
 JOB NUMBER 13-1166

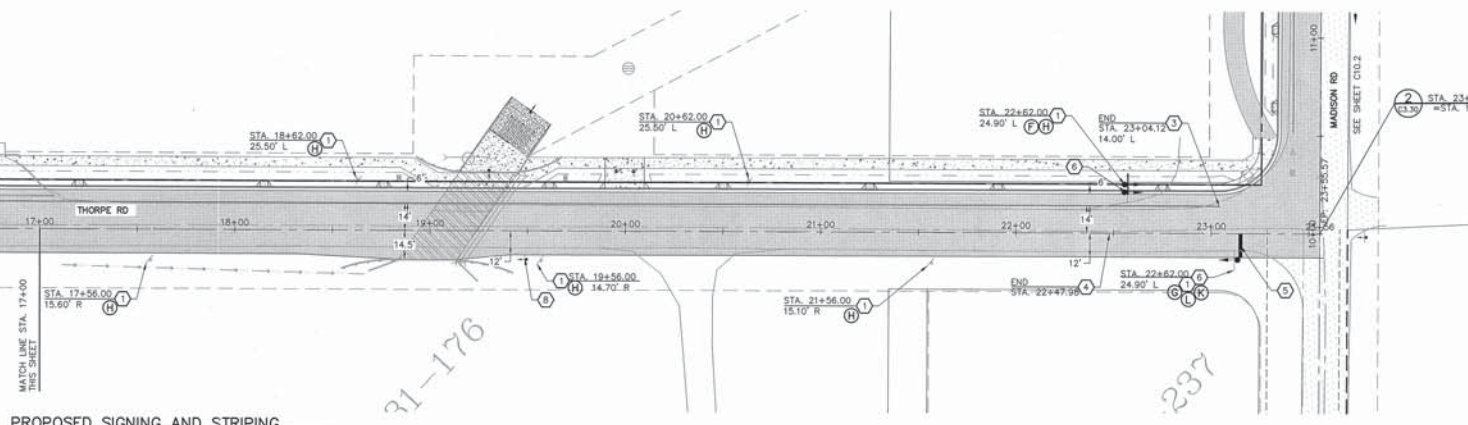
SE 1/4, SEC. 33, T.25N., R.44E., W.M.
 SW 1/4, SEC. 34, T.25N., R.44E., W.M.
 NE 1/4, SEC. 4, T.24N., R.44E., W.M.



PROPOSED SIGNING AND STRIPING
 SCALE: 1"=30'

CONSTRUCTION NOTES

1. INSTALL TRAFFIC SIGN(S) INDICATED PER CITY OF SPOKANE VALLEY/SPOKANE COUNTY VALLEY STANDARD PLAN R-140. SEE PLAN VIEW FOR DETAILS.
2. PROTECT EXISTING R2-1 "35 MPH SPEED LIMIT" SIGN.
3. PROVIDE AND INSTALL TYPE B THERMOPLASTIC 4" WIDE EDGE LINE PER CITY OF SPOKANE VALLEY/SPOKANE COUNTY VALLEY STANDARDS AND WSDOT STANDARD PLAN M-20.10-02 AND B-22 PAVEMENT MARKING SPECIFICATIONS.
4. PROVIDE AND INSTALL TYPE B THERMOPLASTIC 4" SKOP LANE LINE PER CITY OF SPOKANE VALLEY/SPOKANE COUNTY VALLEY STANDARDS AND WSDOT STANDARD PLAN M-20.10-02. SEE PLAN VIEW FOR DETAILS.
5. PROVIDE AND INSTALL 2" WIDE STOP BAR PER CITY OF SPOKANE VALLEY/SPOKANE COUNTY VALLEY STANDARDS AND WSDOT STANDARD PLAN M-24.60-04 AND B-22 PAVEMENT MARKING SPECIFICATIONS.
6. REMOVE EXISTING SIGN.
7. PROVIDE AND INSTALL STREET NAME SIGN PER DETAIL, PER CITY OF SPOKANE VALLEY/SPOKANE COUNTY VALLEY STANDARD PLAN R-140.
8. PROTECT EXISTING R1-1 "STOP" SIGN.



PROPOSED SIGNING AND STRIPING
 SCALE: 1"=30'

GENERAL NOTES SIGNING & STRIPING

1. PAINT SHOULD BE SWARCO 1160/1166 OR SHERWIN WILLIAMS TM 2238/2239.
2. FOG SEAL PER WSDOT 5-02 SPECIFICATIONS. SEE PLAN FOR LIMITS.
3. CONTRACTOR TO OBLITERATE EXISTING STRIPING BY A NON-MECHANICAL METHOD, SUCH AS WATER BLASTING OF EXISTING STRIPING.
4. TYPE B THERMOPLASTIC TO BE USED.
5. FOG SEAL PAVEMENT PER WSDOT 5-02 BITUMINOUS SURFACE TREATMENT.
6. PAINTED SPLITTER ISLAND PER WSDOT STANDARD SECTION 1320.04(2)(D).
7. LONGITUDINAL PAVEMENT MARKING PER WSDOT STANDARD PLAN M-20.10-02. COLOR AND TYPE PER PLAN.
8. PAVEMENT MARKING TO BE PER WSDOT 8-22 PAVEMENT PARKING SPECIFICATIONS.



City of Spokane Valley
 Project/Parcel No.:
 SUB-2015-0001
 (Subdivision)
 FPD-2016-0007
 (Flood Plain Development)
 BGR-2016-0006
 (Engineered Grading)

City of Spokane Valley
 Development Engineering

Revised: _____
 See Street Map - Public _____

Not Reviewed
 Reviewed for Conformance to Street Standards and Accepted per Chapter 1.2
 Date Accepted: _____
 Acceptance Comments: _____

PLANS NOT APPROVED BY AGENCY

✦ DATUM: NAVD - 88
 TBM 5.5 OF THE SOUTH PONDEROSA SEWER PROJECT WITH AN ELEVATION OF 2005.87 (NAVD02) - 2009.87 (NAVD08) WAS USED FOR THE VERTICAL DATUM FOR THIS MAP.

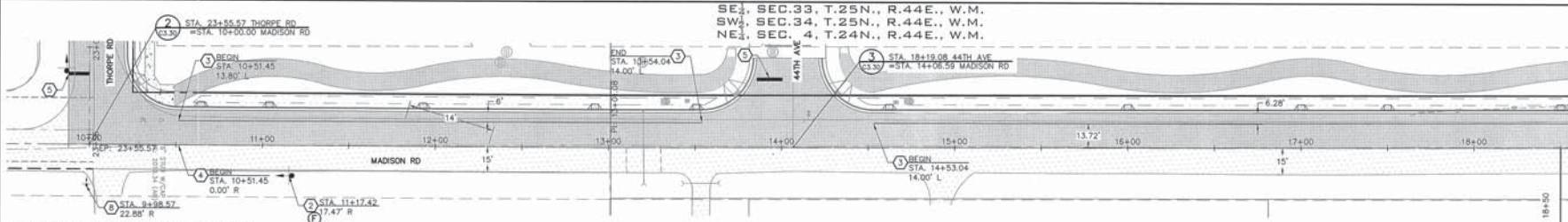
NO.	DATE	BY	DESCRIPTION
1	08-12-16	JPP	ORIGINAL PREPARATION
2	08-14-18	JPP	REVISED PLANS
3	09-22-20	JMH	REVISED PLANS

SCALE:	PROJ #: 13-1166	<input checked="" type="checkbox"/> CIVIL
HORIZONTAL:	DATE: 08/22/20	<input type="checkbox"/> STRUCTURAL
VERTICAL:	DRAWN: JPP/BTT	<input type="checkbox"/> SURVEYING
N/A	REVIEWED: TRW	<input type="checkbox"/> TRAFFIC
		<input type="checkbox"/> PLANNING
		<input type="checkbox"/> LANDSCAPE
		<input type="checkbox"/> OTHER



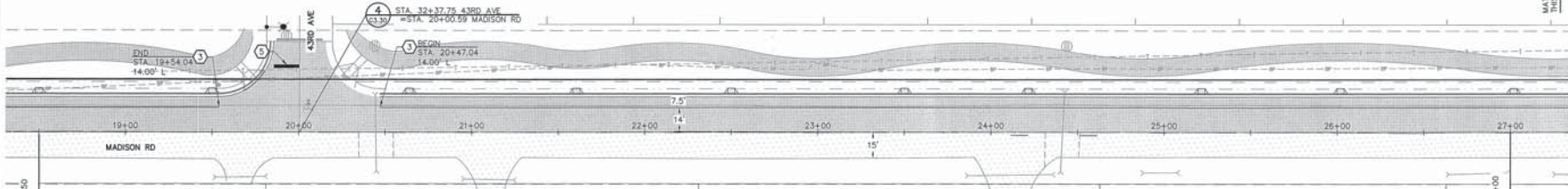
**SPOKANE VALLEY PAINTED HILLS PRD
 THORPE RD SIGNING & STRIPING PLAN
 DISHMAN-MICA RD.
 SPOKANE VALLEY, WA**

**SHEET
 C10.2**
 JOB NUMBER
 13-1166



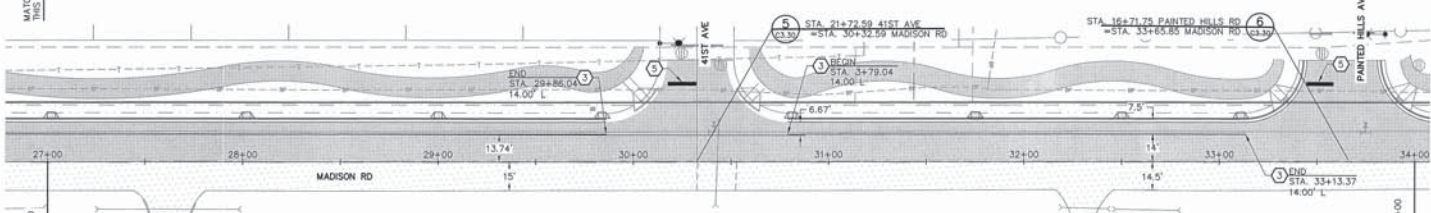
PROPOSED SIGNING AND STRIPING

SCALE: 1"=30'



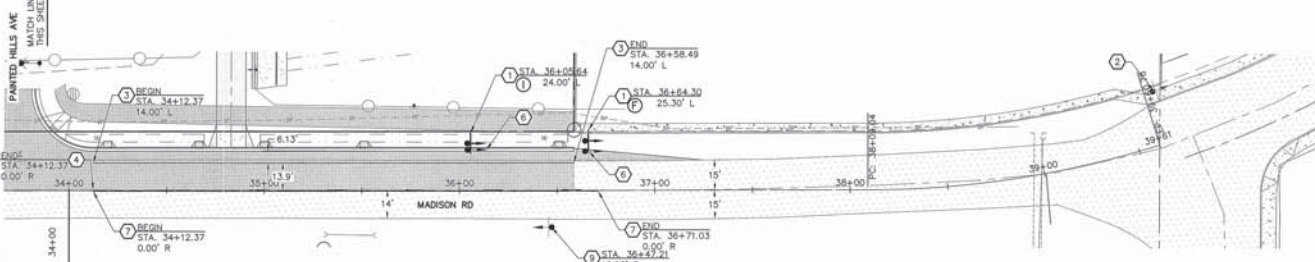
PROPOSED SIGNING AND STRIPING

SCALE: 1"=30'



PROPOSED SIGNING AND STRIPING

SCALE: 1"=30'



PROPOSED SIGNING AND STRIPING

SCALE: 1"=30'

CONSTRUCTION NOTES

- 1 INSTALL TRAFFIC SIGN(S) INDICATED PER CITY OF SPOKANE VALLEY/SPOKANE COUNTY VALLEY STANDARD PLAN R-140. SEE PLAN VIEW FOR DETAILS.
- 2 PROTECT EXISTING "35 MPH SPEED LIMIT" SIGN.
- 3 PROVIDE AND INSTALL TYPE B THERMOPLASTIC 4" WIDE EDGE LINE PER CITY OF SPOKANE VALLEY/SPOKANE COUNTY VALLEY STANDARDS AND WSDOT STANDARD PLAN M-20.10-02 AND 8-22 PAVEMENT MARKING SPECIFICATIONS.
- 4 PROVIDE AND INSTALL TYPE B THERMOPLASTIC 4" CENTERLINE PER CITY OF SPOKANE VALLEY/SPOKANE COUNTY VALLEY STANDARDS AND WSDOT STANDARD PLAN M-20.10-02. SEE PLAN VIEW FOR DETAILS.
- 5 PROVIDE AND INSTALL 2" WIDE STOP BAR PER CITY OF SPOKANE VALLEY/SPOKANE COUNTY VALLEY STANDARDS AND WSDOT STANDARD PLAN M-20.10-02.
- 6 REMOVE EXISTING SIGN.
- 7 PROVIDE AND INSTALL TYPE B THERMOPLASTIC 4" DOUBLE YELLOW LANE LINE PER CITY OF SPOKANE VALLEY/SPOKANE COUNTY VALLEY STANDARDS AND WSDOT STANDARD PLAN M-20.10-02 AND 8-22 PAVEMENT MARKING SPECIFICATIONS. SEE PLAN VIEW FOR DETAILS.
- 8 PROTECT EXISTING UTILITY SIGN.
- 9 PROTECT EXISTING S1-1 SCHOOL SIGN.



R2-1
(24 X 30)



W11-3
(30 X 30)

PLANS NOT APPROVED BY AGENCY

City of Spokane Valley
 Project/Permit No.:
 SUB-2015-0001
 (Sub-division)
 FPD-2016-0007
 (Flood Plain Development)
 EGR-2016-0006
 (Engineered Grading)

City of Spokane Valley
 Development Engineering

Reviewer:
 See Street View - Public

Not Reviewed
 Reviewed for Conformance to Street Standards and Accepted per Chapter 1.2
 Date Accepted:
 Acceptance Comments:

LOUIS R. 19th Street
 2014
 PROFESSIONAL ENGINEER
 12247240

SHEET
C10.3
 JOB NUMBER
13-1166

✦ DATUM: NAVD - 88
 1/8" = 5' OF THE SOUTH PONDEROSA SEWER PROJECT
 WITH AN ELEVATION OF 2008.87 (NAVD89) = 2009.67
 (NAVD88) WAS USED FOR THE VERTICAL DATUM FOR THIS
 MAP.

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

NO.	DATE	BY	REVISIONS
3	08-22-20	JMH	REVISED PLANS
2	08-14-18	JPP	REVISED PLANS
1	08-12-16	JPP	ORIGINAL PREPARATION

PROJ #:	13-1166
DATE:	08/23/20
DRAWN:	SJT/JPP
REVIEWED:	TRW

FUNCTION	NAME
STRUCTURAL	
SURVEYING	
TRAFFIC	
PLANNING	
LANDSCAPE	
OTHER	

IWCE
 WHIPPLE CONSULTING ENGINEERS
 2001 NORTH SULLIVAN ROAD
 SPOKANE VALLEY, WA 99216
 PH: 509-833-3277 FAX: 509-833-0227

**SPOKANE VALLEY PAINTED HILLS PRD
 MADISON RD SIGNING & STRIPING PLAN
 DISHMAN-MICA RD.
 SPOKANE VALLEY, WA**