PROJECT REVIEW COMMENT

ROUTED FOR COMMENTS:

REQUEST COMMENTS BY:

PROJECT: Crestline Circle Dr

DATE: 11/09/18

REVIEW TYPE: Review Comments

PERMIT REVIEWED: U18-000001; BB# 534-126-661

NC= NO COMMENT NR=NO RESPONSE

A=ACCEPT COMMENT - WILL BE CORRECTED, ADDED, OR CLARIFIED

E=DESIGNER WILL EVALUATE

D=DISAGREE WITH COMMENT, NO ACTION WILL BE TAKEN

BB# 138-242-758

ROUTED TO:	Review Completed:
PAT SEVERANCE (PS)	
ED GEORGE (EG)	
SHAWN STUBBERS (SS)	
IRIS HEIDORN (IH)	

	PAGE, SHEET,				
ITEM NO.	GENERAL (G)	COMMENT	RESPONSE	EVALUATION	VERIFIED
1	C2	Missing updated City's Checklist			Yes
		Address the NPC 2003 GEOLOGIC HAZARDS Report			
		for utility (stormwater, road, etc) and lot	GPI to provide report to		
2		development.	address geologic hazards		No
3		Missing street lights location & description			Yes
		Missing franchise utility location and ten (10) feet			
4		easement outside of public right-of-way.			Yes
-		Installation of sidewalk on one side and discussion			
		of FILO option for other required frontage			
5		improvements.			Yes
6		Missing signage and pavement markings.			Yes
		Site plan to show construction of gravel		Fire Dept requested loop connnection to be completed with twenty(20) foot wide gravel	
7		turnaround at the end of asphalt.		surface; work with Linda Steputat.	Yes
		Revise Grading Note #7 to read, "Unless otherwise			
		noted, Street cross sections shall conform to City	Replaced City Standard 3-4	Variance accepted but City Standard D 1 to be placed	
8	C3	of Lewiston Standard Drawing #3-1.	with D-1 on sheet C11	Variance accepted but City Standard D-1 to be place in Plan Set.	Yes
		or Lewiston Standard Drawing #3 1.	With B-1 on sheet c11	in run set.	103
		City approved video inspection & reporting of all			
9		stormwater and wastewater mains prior to paving.			Yes
		Remove temporary water service at main at 622			
10	C5	Crestline and install permanent service per plans.			Yes
		Installation of fire hydrants (not flushing hydrants)			
11	C7	required.	Corrected note on C5	See C5 - Missed change in Profile note.	Yes

			Open ditch and pond will be		
			private system, added notes	New pond location but still lacking easements,	
			for slope stability and	access, outlet design, pond construction verification	
			developer maintenance on	and geo-tech evaluation.	
12	C9	Provide access to maintain stormwater pond.	sheet C9		No
12	C.S	How will 1/2" diameter orifice opening stay clear	Sheet C3		INO
13	C9	from debris?			N/A
15	65	Update City Standard Drawings #1-3; #1-8 and #6-			IN/A
		1; updated Drawings can be found on City's			
		website under Public			
		Works/Engineering/Construction Standard			
14	C11 - C14	Drawings			Yes
		Lots have to provide individual stormwater			
		mitigation. Overflow can be convey to public			
15	Stormwater System	system.			Yes
16	Stormwater System	Missing riprap/ channel design calculations			N/A
	,		Added after valve at end of		
17		Air/ Vacum Release on high side of water main.	existing water main		
			Overflow for 3 lots in block		
			15, 8" pipe is existing, to be		
18		What is use of the storm line in Lot 5?	maintained by developer		
19		Have Plan Set been submitted to DEQ?	Yes		
			Changed storm drain crossing		
			pipe from ADS N-12 to PVC		
		Waterline Crossing #2 requires waterpipe class	C900. Oriented Lot 5 water		
		pipe. Water service to be locate near main for Lot	service perpendicular to		
20	C5	5	waterline		
		Pre Construction meeting with Engineer,			
21		Developer and Contractor required			
		Variances from standards or approved design			
		require written approval prior to construction by			
22		the City Engineer			
		A right-or-way permit shall be obtained through			
		the Public Works Department prior to any work			
		beginning within Public right-of-way. A certified			
		traffic control supervisor is required to submit a			
		plan for any vehicular or pedestrian traffic			
23		modifications.			
		Site distances for abutting properties driveways			
24		and intersections shall be maintained.			

	Erosion and dust control measures must be used		
	during construction to reduce or eliminate blowing		
	dust, excessive runoff and soil erosion across		
	property lines and into streets and right-of-way,		
	and to eliminate tracking soil and mud onto		
	streets from construction equipment and vehicles.		
	The developer is responsible for street cleanup at		
25	the end of each shift.		
	All construction not specifically mentioned or		
	shown shall conform to City Ordinances and		
26	Standards		

IMPROVEMENT PLANS

CRESTLINE CIRCLE DRIVE LEWISTON, IDAHO 83501

AGENCY TELEPHONE NUMBERS

하다 그들은 경기 이번 가는 하는데 되었다. 그는 생생님이 있다고 하는데 사람이 되었다면 하는데 되었다.		
CITY OF LEWISTON BUILDING INSPECTION CONTACT: KATIE HOLLINGSHEAD OR DAWN ORTIZ	N	(208) 746-1318 EX 7263 DAWN EX 7203 KATIE
CITY OF LEWISTON WATER & L.O.S.D. CONTACT: BRYAN LACY		(208) 746-1316
CITY OF LEWISTON PUBLIC WORKS DEPT		(208) 746-1316
AVISTA UTILITIES CONTACT: NATE VON LINDERN		(509) 590-8742
CENTURY LINK CONTACT: BRAD McNEW		(208) 736-8760
CABLE ONE CONTACT: DAN SMITH		(208) 746-3336 EX 3 DAN
UNDERGROUND UTILITY LOCATE	ខ្សា	1-800-342-1585

(CALL 48 HOURS BEFORE YOU DIG)

DEVELOPER:

JOE & FRANCES MCCANN FAMILY LIMITED PARTNERSHIP 202 26TH AVENUE LEWISTON, ID 83501

CONTACT: PAT McCANN

(208) 791-6573

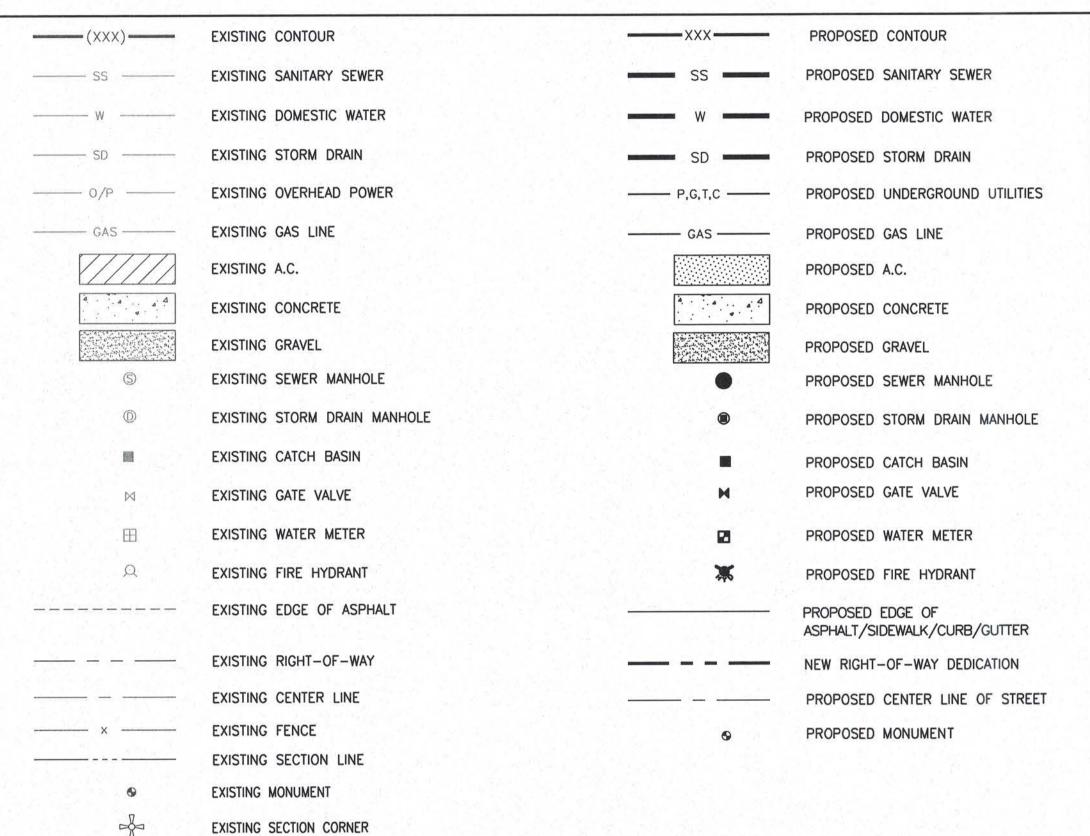
or call 811

RIGHT OF WAY PERMIT QUANTITIES

PAVED AREA IN ROW	± 17,285	S.F.	
APPROACH WIDTH @ ROW	± 0	L.F.	
TRENCH LENGTH	± 993 L.F.		
STREET CUT LENGTH/WIDTH	± 36	L.F.	
CURB & GUTTER LENGTH	± 987	L.F.	
SIDEWALK LENGTH	± 297	L.F.	
MAIN LINE LENGTH	± 993	L.F.	

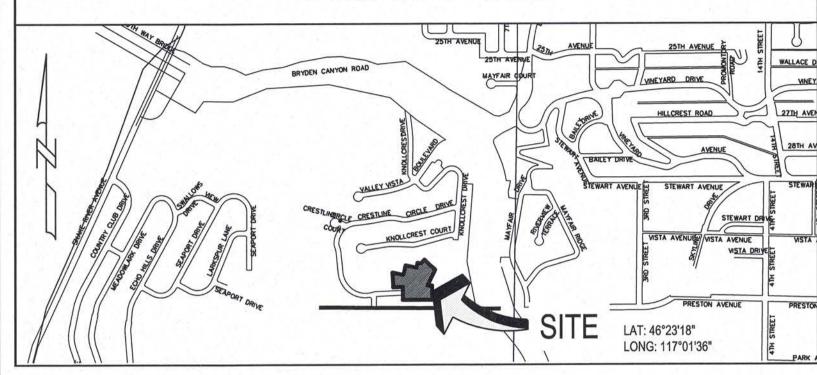
UTILITY	PERMI	T QUANTITIES
BASE FEE	1	EA
CATCH BASIN	4	EA
MANHOLE	2	EA
DOMESTIC WATER LINE	± 528	L.F.
WASTE WATER LINE	± 88	L.F.
STORM DRAIN LINE	± 377	L.F.

LEGEND



EXISTING PROPERTY CORNER

VICINITY MAP

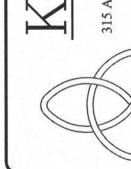


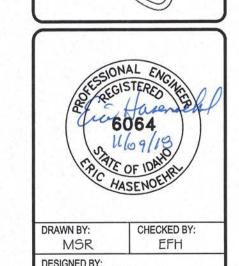
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COVER SHEET
CRESTLINE CIRCLE I

c Engineering, Inc.





DRAWN BY: CHECKED BY MSR EFH

DESIGNED BY: EFH

DATE: 07/13/18

LAST REV.: 08/22/18

PROJECT NO. 17.0089

C1 OF C14

CONSTRUCTION NOTES

SPECIAL INSPECTIONS

NOTE: The City of Lewiston reserves the right for 3rd party verification, inspection, and/or testing prior to infrastructure acceptance. Payment for the services of 3rd party will be the responsibility of the City of Lewiston unless items verified, inspected, and/or tested indicate non-conformance, will be the responsibility of developer/ contractor.

ITEM	MATERIAL	TEST / STANDARD	ACCEPTANCE	TEST FREQUENCY	INSPECTOR/CO
ALL UTILITY TRENGUES & STRUCTURES					
. ALL UTILITY TRENCHES & STRUCTURES					
RENCH SUBGRADE	Native (6" to 8" Lifts Max.)	Moisture Density Relationship of Soils (AASHTO T 180) In-Place Density and Moisture Content (AASHTO 310 Method B)	90% Max. Dry Density	One in-place density test every lift per 100 linear feet. If project is less than 100 linear feet, one in-place density test per day OR per lift [whichever test frequency is more restrictive].	GPI
PIPE BEDDING	3/4" minus Crushed Aggregate (6" to 8" Max. Lift) (Current ITD Spec 703.04) OR 5/8" minus Crushed Aggregate (6" to 8" Max. Lift) (Current WDOT/M41-10 Spec 9-03.9)	Moisture Density Relationship of Soils (AASHTO T 180) In-Place Density and Moisture Content (AASHTO 310 Method B)	95% Max. Dry Density	One in-place density test every lift per 100 linear feet. If project is less than 100 linear feet, one in-place density test per day OR per lift [whichever test frequency is more restrictive]. Test top 6" of 12" cover.	GPI
Ist FOOT [12"] OF FILL OVER PIPE	3/4" minus Crushed Aggregate (6" to 8" Max. Lift) (Current ITD Spec 703.04) OR 5/8" minus Crushed Aggregate (6" to 8" Max. Lift) (Current WDOT/M41-10 Spec 9-03.9)	Moisture Density Relationship of Soils (AASHTO T 180) In-Place Density and Moisture Content (AASHTO 310 Method B)	95% Max. Dry Density	One in-place density test every lift per 100 linear feet, one in-place density test per day OR per lift [whichever test frequency is more restrictive].	GPI
TRENCH BACKFILL UNDER PROPOSED ROAD & SIDEWALK	3/4" minus Crushed Aggregate (6" to 8" Max. Lift) (Current ITD Spec 703.04) OR 5/8" minus Crushed Aggregate (6" to 8" Max. Lift) (Current WDOT/M41-10 Spec 9-03.9)	Moisture Density Relationship of Soils (AASHTO T 180) In-Place Density and Moisture Content (AASHTO 310 Method B)	95% Max. Dry Density	One in-place density test every lift per 100 linear feet, one in-place density test per day OR per lift [whichever test frequency is more restrictive].	GPI
STRUCTURAL FILLS	As Spec'd by Engineer	As Spec'd by Engineer		As Spec'd by Engineer	GPI
2. STORM DRAIN MAINS					
And the same of th	Debuth days ADOM 40 Fairel		0.45.42.5.44.69		0-45-4.9.151101
GASKETED PE Storm Sewer Pipe ALIGNMENT AND GRADE	Polyethylene, ADS N-12 or Equal	Per Manufacturer's Instructions	Certified & Visual by City	Per Plan	Certified & Visual by Cit KELTIC
JOINTS (Deflection/Proper Pipe Embedment)	N/A	Per Manufacturer's Instructions		Each Joint	KELTIC
PRESSURE TEST	N/A	4 PSI for 15 Minutes, 1/2 PSI Drop	If required by City Engineer	Between Access Holes	KELTIC
MANHOLES	Concrete	City Standard	in required by City Engineer	N/A	Certified & Visual by Ci
VIDEO INSPECTION	N/A	City Standard	Dublic Works Delicus No 2042 2	N/A	CONTRACTOR
TIDEO INSPECTION	N/A		Public Works Policy No 2012-2		CONTRACTOR
B. WATER MAINS					
DUCTILE IRON or PVC WATER MAIN	AWWA C-151, C-900, C-905 (Class as Req'd)		Certified & Visual by City		Certified & Visual by Ci
ALIGNMENT AND GRADE	N/A	AWWA C-600, AWWA C-605		Per Plan	KELTIC
OINTS (Deflection/Proper Pipe Embedment)	N/A	AWWA C-600, AWWA C-605		Each Joint	KELTIC
THRUST BLOCKS	Concrete, 2500 PSI Mix	Per Approved Plans/or City Std Dwg # 4-4		Each Joint	Certified & Visual by Ci
		2 Hrs, NTE Allowable Leakage Per AWWA C-600, AWWA C-605		150% Working Pressure	KELTIC
HYDROSTATIC PRESSURE	N/A			OR 1½ times the Working Pressure in the Water System	7-1-1-1-1-1
CHLORINATION/BACTERIA	N/A	AWWA C-651		Bacterial Testing: two negative testing samples 24 hours apart	City of Lewiston
. WASTEWATER MAINS					
	BV0 000 05	Leaving the second seco			WEI TIA
VC WASTEWATER MAIN	PVC, SDR 35	ASTM 3034		N/A	KELTIC
ALIGNMENT AND GRADE	N/A	N/A		Per Plan	KELTIC
IOINTS (Deflection/Proper Pipe Embedment)	N/A	Per Manufacturer's Instructions		Each Joint	KELTIC
MANHOLES	Concrete	Hydrostatic Test		Each Joint	
PRESSURE TEST	N/A	4 PSI for 15 Minutes, 1/2 PSI Drop		Between Access Holes	KELTIC
VIDEO INSPECTION	N/A	No Perforations, Dents or Dimples, No Bellies > 0.02'	Public Works Policy No 2012-2	Between Access Holes	CONTRACTOR
CONCRETE CURR CUTTER & CIRCUAL IC					
5. CONCRETE CURB, GUTTER & SIDEWALK CONCRETE	CLASS 35B - Approved Mix Design Required with Min Cement Content of 560 Lb/CY, Max Water/ Cement Ratio of .44, a WRA, and an AEA	AASHTO T-22 Compressive Strength of Concrete AASHTO T-23 Making Test Specimens AASHTO T-119 Slump of Hydraulic Cement Concrete AASHTO T-152 Air Content of Freshly Mixed Concrete AASHTO T-309 Temperature of Freshly Mixed Concrete WAQTC TM-2 Sampling Freshly Mixed Concrete	Min. 28 day Compressive Strength = 3000 psi; Water/Cement Ratio shall be 0.5 lb/lb Max. Slump = 5 inches Air Content Percent = 6.5% ± 1.5 Temperature = 50°F - 80°F	1 of Each Test Minimum per Day, or 1 of Each Test per 50 CY	GPI
CRUSHED AGGREGATE BASE COURSE	3/4" minus Crushed Aggregate (4" Max. Lift) (Current ITD Spec 703.04) OR 5/8" minus Crushed Aggregate (4" Max. Lift) (Current WDOT/M41-10 Spec 9-03.9)	Moisture Density Relationship of Soils (AASHTO T 180) In-Place Density and Moisture Content (AASHTO 310 Method B)	95% Max. Dry Density	1 Tests Per 500 LF-Min 2 Tests	GPI
ALIGNMENT AND GRADE	N/A	Visual	+ 0.02' from Design Grade/Alignment	Per 10' Section	City Approval
JOINTS/FLATNESS/STRAIGHTNESS	N/A	Visual	+ 0.02'/10' Segment	Per 10' Section	100,74
FINISH	N/A	Visual	Floated, Uniform, Light Broom Finish	Entire Surface Area	
S. ASPHALTIC CONCRETE PAVING			1.54		100000000000000000000000000000000000000
SUPERPAVE HOT MIX ASPHALT	ITD 405 Superpave Class SP3 and SP5 (2017 ITD Spec 405 and 703.05) Note: Contractor shall provide a pre-pave meeting to discuss methods and production operations for new roadway construction or projects over 200 tons. The City of Lewiston reserves the right to request a pre-pave meeting for projects with 200 tons or less.	Class SP2: AASHTO T-308, Asphalt Content AASHTO T-27 & T-11, Sieve Analysis WAQTC TM-8, In-Place Density of Bituminous Mixes AASHTO T-209, Theoretical Maximum Density (RICE) Class SP3 and SP5: AASHTO T-308, Asphalt Content AASHTO T-308, Asphalt Content AASHTO T-166 Method A, Air Voids, and Voids in Mineral Aggregates (VMA) WAQTC TM-8, In-Place Density of Bituminous Mixes with Correlated Nuclear Gauge or, AAHSTO T-166, Density of Bituminous Mixes by Cones AASHTO T-209, Theoretical Maximum Density (RICE) Density Note: When a non-correlated gauge is used to determine in-place density during production, cores will be taken for final density and thickness determination. When a correlated gauge is used for	ITD Section 405.03 Asphalt Content - CJMF Value +/- 0.3% Sieve Analysis - Table 405.03-5 Air Voids - 4.0 +/- 1.0% Voids in Mineral Aggregates, at N design - 703.05 Minimum Value 0.05b All Projects Regardless of Tonnage In-Place Density - 92-96% of Maximum Theoretical (When acceptance will be from correlated gauge, contractor must submit documentation showing gauge correlation to proposed bituminous mixture used.)	Project 200 tons or less - Minumum of 1 test (asphalt content, and gradation) per project. A minimum of 2 cores will be taken to determine final thickness and/ or density. Projects 200 tons or more - Minimum of 1 test (asphalt content, gradation, voids, and VMA) per 750 tons or, one per day. A minimum of 5 cores will be taken to determine final thickness and/or density. Random sampling locations determined by the City of Lewiston. The City of Lewiston reserves the right for 3rd party verification, inspections, and/or testing prior to infrastructure acceptance.	GPI
CRUSHED AGGREGATE BASE COURSE	Same test requirement as under 5. Concrete Curb, Gutter & Sidewalk	production testing, cores will be taken for thickness determination only. Core quantities and locations to be determined by the City of Lewiston.			GPI
7. EROSION & SEDIMENT CONTROLS	Per Approved Plan	Per Plan and Manufacturers' Instructions		1/Wk or After Every Rainfall	CONTRACTOR
8. TRAFFIC CONTROL	Per Approved Plan	Current Adopted MUTCD/ATSSA		Continuous	
S. TRAFFIC CONTROL		D 이 등 보통하다 하는 시간 전 교통에 살았는 글로 5시간 등 등 환경하는			
S. TRAFFIC CONTROL					Certified & Visual by City - Undergroun
9. PRIVATE STORMWATER SYSTEM	Per Approved Plan	City Resolution #80-100	Certified & Visual by City		Certified & Visual by City - Undergrour elements must be approved by City prior to backfill.
9. PRIVATE STORMWATER SYSTEM	Per Approved Plan AutoCAD Elect File, Bond Paper, 22" x 34" Min Size	City Resolution #80-100 City Checklist	Certified & Visual by City	Before Public Improvements Accepted	Certified & Visual by City - Undergrou elements must be approved by City prior to backfill.
9. PRIVATE STORMWATER SYSTEM 10. RECORD DRAWINGS Date Last: Revised December 2017		A Common and the second	Certified & Visual by City	Before Public Improvements Accepted	Certified & Visual by City - Undergrou elements must be approved by City prior to backfill.

NOTES: 1) SPECIAL INSPECTIONS TO BE COORDINATED BY CONTRACTOR AND PERFORMED BY THE COMPANIES LISTED ABOVE. 24 HOURS OR MORE NOTICE TO THESE COMPANIES IS REQUIRED PRIOR TO INSPECTION.

2) THE SPECIAL INSPECTIONS DEPICTED HERE ARE INFORMATIONAL. ADDITIONAL SPECIAL OR OTHER INSPECTIONS MAY BE REQUIRED, AND THE FOREGOING LIST IS NOT EXCLUSIVE.

APPLICABLE STANDARD DETAILS

1-1	UTILITY LOCATIONS
1-2	UTILITY PEDESTAL & TRENCH DETAIL
1-3	STREET MONUMENT W/ FRAME & COVER
1-6	BACKFILL CLASS D
1-8	IDENTIFYING TAPE DETAIL
2-5	DETECTABLE WARNING FOR PEDESTRIAN ACCESS
2-6	GENERAL NOTES FOR ALL TYPES OF CURB & GUTTER
2-7	HIGH BACK CURB AND ROLLED CURB & GUTTER
2-8	CONCRETE SIDEWALK
2-11	SIDEWALK RAMP TYPE 1
(D-1	LOCAL RESIDENTIAL STREET
4-1	POTABLE & NON-POTABLE WATERLINE SEPARATION
4-2	GATE VALVE BOX W/ ASSEMBLY
4-3	COMBINATION BLOW OFF & SAMPLING TAP
4-4	THRUST BLOCKING DETAIL
4-5	TYPICAL WATER METER OR UTILITY MARKER LOCATION
4-7	STANDARD 1" WATER SERVICE CONNECTION
4-12	FIRE HYDRANT W/ SHUT-OFF VALVE
5-1	WASTEWATER PRIVATE SERVICE CONNECTION
5-2	SERVICE TAP OPTIONS
5-3	WASTEWATER TYPE 1 MANHOLE
5-6	CONCRETE MANHOLE COLLAR
5-7	MANHOLE FRAME & COVER
5-8	MANHOLE CHANNEL DETAILS
6-1	SYSTEM GENERAL NOTES
6-2	STORMWATER TYPE 1 MANHOLE
6-4	MANHOLE CONCRETE COLLAR
6-5	MANHOLE FRAME AND COVER
6-6	GENERAL CATCH BASIN NOTES
6-8	STORMWATER TYPE 1 CATCH BASIN

CONTRACTOR TO OBTAIN A CURRENT CITY OF LEWISTON STANDARDS BOOKLET FROM THE PUBLIC WORKS DEPARTMENT.

No. DATE BY DESCRIPTION

1 08/22/18 MSR CITY COMMENTS 08/16/18

ASTRUCTION NOTES #1

INGINEERING, INC.

Keltic Engineeri





DRAWN BY: CHECKED B
MSR EFH
DESIGNED BY:

DATE: 07/13/18

LAST REV.: 08/22/18

C2 OF C14

COMSTRUCTION MOT

ACCESSIBILITY NOTES

ACCESSIBILITY SHALL BE PROVIDED PER UNITED STATES ACCESS BOARD "PROPOSED ACCESSIBILITY GUIDELINES FOR PEDESTRIAN FACILITIES IN THE PUBLIC RIGHT-OF-WAY" JULY 26, 2011.

1) IF THE 5% MAXIMUM COUNTER SLOPE AT THE BOTTOM OF THE RAMP (AT STREET TRANSITION) CANNOT BE ACHIEVED DUE TO EXISTING CONDITIONS, THE RAMP SLOPE SHALL BE ADJUSTED SO THE SUM OF BOTH SLOPES DOESN'T EXCEED 13.3%.

WATER PONDING WITHIN THE CURB RAMP LIMITS IS NOT ALLOWED.

- NO GRADE BREAK IS ALLOWED ALONG THE RAMP SURFACE. THE DETECTABLE/TACTILE WARNING TILE SHALL BE SLIP RESISTANT AND CONSIST OF AN INLINE PATTERN OF RAISED TRUNCATED DOMES.
- COLOR: THE DETECTABLE/TACTILE WARNING TILE SHALL BE YELLOW CONFORMING TO FEDERAL STANDARDS 595B TABLE IV, COLOR NO. 33538.
- ANY DEVIATIONS FROM THESE PROVISIONS REQUIRES PRIOR APPROVAL BY THE ENGINEER.

FIRE DEPARTMENT NOTES

- 1) ALL HYDRANTS SHALL BE THRUST BLOCKED OR RETAINED AND ALL FITTINGS SHALL BE THRUST BLOCKED. THRUST BLOCKS SHALL CONFORM TO THE CITY OF LEWISTON STANDARD DWG 4-4.
- FIRE HYDRANTS SHALL CONFORM TO AWWA C502 AND SHALL BE WATEROUS PACER OR MEULLER CENTURIAN. HYDRANTS SHALL BE SO CONSTRUCTED THAT THE DIRECTION OF PUMPER CONNECTION MAY BE ROTATED TO FACE THE ROADWAY. A SIX (6) INCH MECHANICAL JOINT CONNECTION WITH LUGS AND SHACKLE RODS IS TO BE USED. A GATE VALVE SHALL BE INSTALLED AT EACH HYDRANT AS SHOWN ON CITY OF LEWISTON STANDARD DWG 4-12. ALL HYDRANTS USED FOR THIS PROJECT SHALL BE PROVIDED WITH A 5 INCH INTEGRAL HYDRANT STORZ NOZZLE. ALL NOZZLES SHALL BE PROVIDED WITH THE
- STORZ BLIND CAP WITH SUCTION SEAL AND AIRCRAFT CABLE.
- HYDRANTS SHALL BE SPACED AT A MAXIMUM OF 500' IN RESIDENTIAL AREAS. ALL HYDRANTS SHALL HAVE VALVES ON THE HYDRANT BRANCH LINE. HYDRANTS SHALL HAVE TWO, 2 1/2" PORTS AND ONE, 4 1/2" STEAMER PORT.
- ALL NEW FIRE HYDRANTS SHALL MEET THE FOLLOWING REQUIREMENTS:
- NEW HYDRANT WILL BE WATEROUS PACER WITH 5" INTEGRAL HARRINGTON STORZ NOZZLE
- 6" MINIMUM SUPPLY FOR FIRE HYDRANT
- IF COMBUSTIBLE BUILDING MATERIALS ARE USED (INCLUDING FRAMING) THE WATER SUPPLY (INCLUDING MAINS AND HYDRANTS) SHALL BE DESIGNED, INSTALLED, TESTED AND APPROVED BY THE FIRE DEPARTMENT PRIOR TO STOCKPILING COMBUSTIBLE BUILDING MATERIALS.
- WATER SUPPLY SYSTEMS FOR PHASED CONSTRUCTION SHALL PROVIDE REQUIRED FIRE FLOWS AT ALL PHASES
- ALL EXISTING FIRE HYDRANTS WITHIN THE PROJECT SHALL BE PROVIDED WITH A 5" HARRINGTON HIHS STORZ ADAPTERS WITH THE APPROVED ATTACHED SEAL - ALL NEW AND EXISTING HYDRANTS SHALL BE INSTALLED AND/OR MODIFIED SO THE 5" PORT IS FACING TOWARD THE FIRE DEPARTMENT VEHICULAR ACCESS
- FENCES, PLANTS, TREES AND/OR SHRUBS SHALL NOT BE PLACED OR KEPT NEAR FIRE HYDRANTS, FIRE DEPARTMENT INLET CONNECTIONS OR FIRE PROTECTION SYSTEM CONTROL VALVES IN A MANNER THAT WOULD PREVENT SUCH EQUIPMENT FROM BEING IMMEDIATELY DISCERNIBLE BY THE FIRE DEPARTMENT. IFC 508.5.4.
- ALL SITE INSPECTIONS REQUIRE A MINIMUM 24 HOURS NOTICE. ALL FIRE DEPARTMENT INSPECTIONS ARE TO BE REQUESTED THROUGH THE FIRE DEPARTMENT 208-743-3554. PLEASE BE SPECIFIC AS TO TYPE OF INSPECTION REQUESTED.

GENERAL NOTES

- THE CONTRACTOR SHALL PAY FOR ALL NECESSARY PERMITS AND FEES.
- THE CONTRACTOR SHALL INVESTIGATE ON SITE AND VERIFY ALL CONDITIONS AND DIMENSIONS OF THE PROJECT AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCY IN THE CONTRACT DOCUMENTS REQUIRING MODIFICATION PRIOR TO PROCEEDING.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PREVENTATIVE MEASURES TO PROTECT THE EXISTING IMPROVEMENTS. ANY DAMAGE SHALL BE REPLACED AT NO
- THE CONTRACTOR SHALL COORDINATE THE WORK SCHEDULE SO AS TO HAVE A MINIMUM IMPACT ON THE EXISTING TRAFFIC. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL PER IDAHO TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS, AND ANY APPLICABLE CITY STANDARDS OR REQUIREMENTS. ALL SURVEY MARKERS RELATED IN ANY WAY TO THE PROJECT, AND ALL OWNER'S PROPERTY CORNERS SHALL BE PROTECTED AT ALL TIMES, AND THE CONTRACTOR
- SHALL RETAIN THE SERVICES OF A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF IDAHO TO REFERENCE ALL CORNERS. UPON COMPLETION OF THE PROJECT, ALL EXISTING CORNERS DAMAGED BY CONSTRUCTION OR OTHER ACTIVITY SHALL BE REPLACED BY A PROFESSIONAL LAND SURVEYOR.
- ALL WORK SHALL CONFORM TO STATE AND LOCAL CODES AND CONFORM TO THE CITY OF LEWISTON STANDARD DRAWINGS AND THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPWC), CURRENT EDITION. SPECIAL INSPECTIONS BY OWNER, NOT CONTRACTOR. SITE DISTANCES FOR ABUTTING PROPERTIES, DRIVEWAYS, AND INTERSECTIONS MUST BE MAINTAINED.
- IMPROVEMENTS CONSTRUCTED ON RIGHT-OF-WAY REQUIRE A STREET CUT PERMIT OBTAINED AT THE CONSTRUCTION MANAGEMENT SECTION OF THE PUBLIC
- ALL CONSTRUCTION NOT SPECIFICALLY MENTIONED OR SHOWN SHALL CONFORM TO CITY ORDINANCES AND STANDARDS.
- SANITARY DISPOSAL TO BE PER CITY OF LEWISTON STANDARDS.
- SPECIAL INSPECTION IS REQUIRED FOR SOIL COMPACTION, BASE MATERIAL, CONCRETE, CURB & GUTTER, SIDEWALK, ASPHALTIC CONCRETE PAVING, WASTEWATER MAINS, WATER MAINS, AND STORM DRAIN MAINS IN RIGHT-OF-WAY; AND AS OTHERWISE REQUIRED BY THE CITY OF LEWISTON.
- UPON COMPLETION, CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS, COMPLETE WITH ELEVATIONS, TO THE ENGINEER OF RECORD TO BE APPROVED. STREET NAME SIGNS ARE TO BE PAID FOR BY THE DEVELOPER AND INSTALLED BY THE CONTRACTOR.
- CITY TO PARTICIPATE ON PRE-CONSTRUCTION AND OTHER VARIOUS CONSTRUCTION MEETINGS AS NEEDED. WHEREVER THE PLANS OR OTHER CONTRACT DOCUMENTS CALL FOR CITY APPROVAL, THE SAME SHALL BE DEEMED TO ALSO REQUIRE ENGINEER'S APPROVAL; CONTRACTOR SHALL CONFIRM CITY'S APPROVAL WITH ENGINEER PRIOR TO PROCEEDING.
- CONFLICTS IN PLANS OR SPECIFICATIONS, OR REFERENCE STANDARDS SHALL BE RESOLVED BY THE ENGINEER, WHO SHALL HAVE THE RIGHT TO IMPOSE THE MORE DIFFICULT AND EXPENSIVE INTERPRETATION.

GRADING NOTES

- ALL TOPSOIL SHALL BE STRIPPED AND STOCKPILED BEFORE EXCAVATION.
- ALL EXPOSED CUT/FILL SLOPES SHALL BE SEEDED TO PREVENT EROSION. ALL ASPHALTIC CEMENT PAVING REMOVAL SHALL BE SAW CUT AND WHEN REPLACED, TACKED TO EXISTING PAVEMENT.
- ALL CURB AND GUTTER SHALL BE HIGH BACK CURB AND GUTTER AS DEPICTED ON THE PLANS AND SHALL CONFORM TO CITY OF LEWISTON STANDARD DRAWINGS 2-6
- SIDEWALKS SHALL CONFORM TO CITY OF LEWISTON STANDARD DRAWINGS 2-8, WITH CROSS SLOPE = 1.5% MAX.
- EROSION AND DUST CONTROL MEASURES MUST BE USED DURING CONSTRUCTION TO REDUCE OR ELIMINATE BLOWING DUST, EXCESSIVE RUNOFF, AND SOIL EROSION ACROSS PROPERTY LINES AND INTO STREETS AND RIGHT-OF-WAY, AND TO ELIMINATE TRACKING SOIL AND MUD ONTO STREETS FROM CONSTRUCTION EQUIPMENT AND VEHICLES.
- UNLESS OTHERWISE NOTED, STREET CROSS SECTIONS SHALL CONFORM TO CITY OF LEWISTON STANDARD DRAWING D-1.
- ALL ROADWAY FILL SHALL BE AS A MINIMUM, CLEAN, UNIFORMLY GRADED, COMPACTED TO 95% OF THE MAX. DRY DENSITY DETERMINED BY MODIFIED PROCTOR, ASTM 1557. COMPACTION LAYERS SHALL BE 8" DEEP.
- ALL CUT-SLOPES SHALL BE CAREFULLY GRADED, DRESSED AND SCALED TO THE SATISFACTION OF THE ENGINEER AND THE CITY, SO AS TO MITIGATE FUTURE

ASPHALT PAVEMENT/AGGREGATE NOTES

- ALL ASPHALT PAVEMENT AND AGGREGATE SHALL CONFORM TO THE IDAHO TRANSPORTATION DEPARTMENT'S STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (SSFHC), CURRENT EDITION. ASPHALTIC CONCRETE SHALL BE SUPERPAVE HMA, SP2, PG 64-28, CONFORMING TO SECTION 405 AND 703.05 OF ITD SSFHC, CURRENT EDITION.
- CONTRACTOR TO SUBMIT A JOB MIX FORMULA (JMF) TO KELTIC ENGINEERING, INC FOR REVIEW AND APPROVAL A MINIMUM OF 7 WORKING DAYS PRIOR TO PAVING OPERATIONS. THE MINIMUM 7 WORKING DAYS MUST NOT INCLUDE WEEKENDS OR HOLIDAYS. IF REVIEW AND APPROVAL IS REQUIRED BY THE CITY, A LONGER TIME
- ASPHALT ACCEPTANCE TEST STRIP NOT REQUIRED. ACCEPTANCE FOR PAVEMENT DENSITY WILL BE BASED ON THE DENSITY OF CORES TAKEN FROM THE FINISHED
- 3/4 " CRUSHED AGGREGATE BASE CONFORMING TO ITD SSFHC SECTION 703.04 AGGREGATE FOR UNTREATED BASE, TREATED BASE AND ROAD MIX TABLE 703.04-1, ¾ IN B OR IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPWC), 2015, SECTION 802 - CRUSHED AGGREGATES, TABLE 1, ¾ IN. (TYPE 1).
- PAVING OPERATIONS SHALL NOT BEGIN UNTIL THE CITY OF LEWISTON HAS APPROVED VIDEO INSPECTION AND REPORTING OF ALL STORMWATER AND WASTEWATER

WATER NOTES

- ALL WATER SYSTEMS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH IDAPA AND ALL STATE CODES FOR PUBLIC DRINKING WATER SYSTEMS MUST BE FOLLOWED COUPLED WITH THE CITY OF LEWISTON STANDARDS.
- AN APPROVED BACKFLOW PREVENTION ASSEMBLY IS REQUIRED ON THE SUPPLY WATER LINE WHEN FILLING THE NEW WATER MAIN DURING DISINFECTION AND
- FLUSHING. THE BACKFLOW PREVENTION ASSEMBLY AND SUPPLY PIPING MUST BE REMOVED DURING HYDROSTATIC PRESSURE TESTING. GATE VALVES SHALL CONFORM TO AWWA C 515-99 RESILIENT SEATED GATE VALVES FOR WATER AND SEWAGE SYSTEMS AND SHALL BE IRON BODY BRONZE-MOUNTED, DOUBLE DISC WITH BRONZE WEDGING AND 0-RING STUFFING BOX.
- THE CONTRACTOR SHALL PROVIDE 4 FT MIN. COVER ON ALL WATER LINES AND PROVIDE 18" MINIMUM VERTICAL CLEARANCE BETWEEN POTABLE WATER LINE AND NON-POTABLE WATER LINE CROSSINGS. FOR ALL CROSSINGS LESS THAN 18" OF VERTICAL CLEARANCE, NON-POTABLE AND POTABLE LINES MUST BE A HORIZONTAL DISTANCE OF TEN FEET APART ON BOTH SIDES OF THE CROSSING, WITH NO JOINTS, AS SHOWN ON CITY OF LEWISTON STANDARD DETAIL 4-1. THE CONTRACTOR IS RESPONSIBLE FOR FLUSHING AND PRESSURE TESTING THE NEW WATER MAIN. THESE TESTS MUST BE COMPLETED AND APPROVED
- BEFORE DISINFECTION PROCEDURES MAY BEGIN. PROPOSED WATER LINES SHALL BE HYDROSTATICALLY TESTED AS PER AWWA C600-93. TESTS SHALL BE 1 1/2 TIMES THE HIGHEST WORKING PRESSURE, WITH A MINIMUM OF 150 PSI. PRESSURE SHALL BE HELD FOR 2 HOURS WITH NO DROP IN PRESSURE. ENGINEER OF RECORD SHALL WITNESS TEST. THE CITY OF
- LEWISTON WATER DIVISION, TO MAINTAIN THE INTEGRITY OF THE SYSTEM, SHALL OBSERVE THE FINAL TIE-IN. THE CONTRACTOR SHALL PROVIDE LOCATE WIRE AND BURY TAPE IN PVC WATER MAIN TRENCH PER CITY OF LEWISTON STANDARD DWG 1-8. IF COMBUSTIBLE BUILDING MATERIALS ARE USED (INCLUDING FRAMING) THE WATER SUPPLY (INCLUDING MAINS AND HYDRANTS) SHALL BE DESIGNED, INSTALLED, TESTED AND
- APPROVED BY THE FIRE DEPARTMENT PRIOR TO STOCKPILING COMBUSTIBLE BUILDING MATERIALS. WATER LINE CONNECTIONS TO MAINS AND LATERALS SHALL BE LEFT UNCOVERED UNTIL AFTER THE CITY ENGINEER AND THE ENGINEER ON RECORD HAVE
- INSPECTED AND APPROVED THE WORK. AFTER APPROVAL OF CONNECTION, THE TRENCH SHALL BE BACKFILLED AS SPECIFIED. WATER MAINS SHALL BE INSTALLED BY CONTRACTORS WITH EXPERIENCE INSTALLING PUBLIC WATER MAINS AND APPROVED BY THE CITY OF LEWISTON. ALL PIPING AND FITTING MATERIAL SHALL BE NEW UNLESS OTHERWISE APPROVED BY THE CITY OF LEWISTON WATER DIVISION AND THE IDAHO DEPARTMENT
- WATER MAINS SHALL BE LAID ONLY IN DEDICATED STREETS ACCEPTED BY THE CITY OF LEWISTON.
- WATER MAIN SHALL BE PVC C-900 PIPE CONFORMING TO AWWA C900-16.
- WATER LINE FITTINGS SHALL BE CAST IRON OR DUCTILE IRON CONFORMING TO AWWA STANDARD C153.
- DISINFECTION OF WATER PIPES SHALL BE IN ACCORDANCE WITH AWWA C-651-92. ISOLATE NEW PIPE FROM EXISTING SYSTEM TO PREVENT POTENTIAL CROSS-CONNECTION. THE CITY OF LEWISTON WATER DIVISION SHALL PERFORM THE CHLORINATION AND BACTERIAL TESTING. ENGINEER OF RECORD SHALL
- THE NUMBER OF WATER SAMPLES TAKEN WILL DEPEND UPON THE LENGTH AND NUMBER OF BRANCHES OF THE NEW MAIN BUT A MINIMUM OF TWO SAMPLES MUST BE TAKEN. THESE SAMPLES SHALL BE TAKEN FROM EACH END OF THE NEW WATER MAIN. TWO CONSECUTIVE SAMPLES AT LEAST TWENTY-FOUR HOURS APART MUST BE REPORTED AND DISPLAY NEGATIVE BACTERIOLOGICAL RESULTS. RESULTS FROM BACTERIOLOGICAL TESTING WILL BE AVAILABLE APPROXIMATELY 26 HOURS AFTER THE LAST SAMPLE IS TAKEN. THE CONTRACTOR SHALL PAY FOR ALL FEES ASSOCIATED WITH THE CHLORINATION AND BACTERIAL TESTING.

STORM DRAINAGE NOTES

- STORM DRAIN MAINS SHALL BE INSTALLED BY CONTRACTORS W/ EXPERIENCE INSTALLING PUBLIC STORM DRAIN MAINS AND APPROVED BY THE CITY OF LEWISTON. ALL EXISTING LIVE STORM DRAINS SHALL BE KEPT IN SERVICE AT ALL TIMES. PROVISIONS SHALL BE MADE FOR DISPOSAL OF STORM FLOW IF ANY EXISTING STORM DRAINS ARE DAMAGED. DAMAGE TO EXISTING STORM DRAINS SHALL BE REPAIRED BY THE CONTRACTOR, AT NO EXPENSE TO THE CITY, TO A CONDITION EQUAL TO
- STORM DRAIN MAIN SHALL BE LAID ONLY IN DEDICATED STREETS OR IN EASEMENTS WHICH HAVE BEEN GRANTED AND ACCEPTED BY THE CITY OF LEWISTON. STORM DRAIN PIPES SHALL BE ADS N-12 WT COLLECTION PIPE NOMINAL SIZES 4-36 INCH DIAMETER AND SHALL MEET OR EXCEED ALL THE REQUIREMENTS OF
- AASHTO M 252 OR AASHTO M 294, CURRENT EDITION. THE NOMINAL SIZE FOR THE PIPE AND FITTINGS IS BASED ON THE NOMINAL INSIDE DIAMETER OF THE PIPE. CORRUGATED FITTINGS MAY BE EITHER MOLDED OR FABRICATED BY THE MANUFACTURER. FITTINGS SUPPLIED BY MANUFACTURERS OTHER THAN THE SUPPLIER OF THE PIPE SHALL NOT BE PERMITTED WITHOUT THE
- APPROVAL OF THE PROJECT ENGINEER. STORM DRAIN LINE CONNECTIONS TO TRUNKS, MAINS, LATERALS, OR SIDE STORM DRAINS SHALL BE LEFT UNCOVERED UNTIL AFTER THE CITY ENGINEER HAS INSPECTED AND APPROVED THE WORK. AFTER APPROVAL OF CONNECTION, THE TRENCH SHALL BE BACKFILLED AS SPECIFIED.
- FINAL ADJUSTMENT AND GROUTING OF THE STORM DRAIN MANHOLE RINGS SHALL BE DONE BY THE PAVING CONTRACTOR. INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM RECOMMENDED PRACTICE D 2321, OR AS SHOWN ON THE PROJECT PLANS.
 - ALL STORM DRAIN LINES SHALL BE INSPECTED BY THE USE OF A TELEVISION CAMERA BEFORE FINAL ACCEPTANCE.

WASTEWATER NOTES

- SEWER MAINS SHALL BE INSTALLED BY CONTRACTORS W/ EXPERIENCE INSTALLING PUBLIC SEWER MAINS AND APPROVED BY THE CITY OF LEWISTON. ALL EXISTING LIVE SEWERS SHALL BE KEPT IN SERVICE AT ALL TIMES. PROVISIONS SHALL BE MADE FOR DISPOSAL OF SEWAGE FLOW IF ANY EXISTING SEWERS ARE DAMAGED. DAMAGE TO EXISTING SEWERS SHALL BE REPAIRED BY THE CONTRACTOR, AT NO EXPENSE TO THE CITY, OR TO THE OWNER; TO A CONDITION EQUAL TO OR BETTER THAN CONDITIONS PRIOR TO THE DAMAGE.
- SEWER MAIN SHALL BE LAID ONLY IN DEDICATED STREETS ACCEPTED BY THE CITY OF LEWISTON. GRAVITY SEWER PIPES SHALL BE P.V.C. POLYVINYL CHLORIDE PIPE AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM D 3034 SDR 35 OR ASTM F 789. JOINTS FOR P.V.C. PIPE SHALL CONFORM TO ASTM D 3212 USING RESTRAINED GASKETS CONFORMING TO ASTM F477. FITTINGS FOR P.V.C. PIPE SHALL BE INJECTION MOLDED
- TEES OR FACTORY SOLVENT CEMENTED SADDLE TEES. PRESSURE SEWER PIPE SHALL BE HDPE DR 11 (MINIMUM) CONFORMING TO THE REQUIREMENTS OF ASTM D3035 OR ASTM F714. JOINTS SHALL BE FULLY WELDED.
- SEWER LINE CONNECTIONS TO TRUNKS, MAINS, LATERALS, OR SIDE SEWERS SHALL BE LEFT UNCOVERED UNTIL AFTER THE CITY ENGINEER HAS INSPECTED AND APPROVED THE WORK. AFTER APPROVAL OF CONNECTION, THE TRENCH SHALL BE BACKFILLED AS SPECIFIED. ALL WORK INVOLVED IN CLEANING AND TESTING SEWER LINES BETWEEN MANHOLES OR RODDING INLETS AS REQUIRED HEREIN SHALL BE COMPLETED WITHIN
- FIFTEEN DAYS AFTER BACKFILLING OF SEWER LINES AND STRUCTURES. ANY FURTHER DELAY WILL REQUIRE THE WRITTEN CONSENT OF THE ENGINEER OF RECORD. ALL SANITARY SEWER LINES SHALL BE INSPECTED BY THE USE OF A TELEVISION CAMERA BEFORE FINAL ACCEPTANCE. SEWER LINES SHALL BE AIR TESTED WITH A PRESSURE 4 PSI GREATER THAN AVERAGE GROUND WATER PRESSURE THAT MAY SUBMERGE THE PIPE. ALLOW A TWO
- MINUTE STABILIZATION TIME. AIR LOSS SHALL NOT EXCEED A TOTAL RATE OF 2 CFM OR 0.0030 CFM PER SQUARE FOOT OF INTERNAL PIPE SURFACE, WHICHEVER IS GREATER. ENGINEER OF RECORD SHALL WITNESS THE TEST. SANITARY SEWER STUBS SHALL HAVE THEIR TERMINATIONS PERMANENTLY MARKED WITH A 5' STEEL FENCE POST, FOR EASE OF FUTURE LOCATION.
- SEWER MANHOLES SHALL BE CONSTRUCTED IN CONFORMANCE WITH CITY OF LEWISTON STANDARD DWG 5-3. USE NON-SHRINK GROUT OR GASKETED MANHOLE COUPLERS FOR MANHOLE-PIPE CONNECTIONS. 'TIE-INS' TO EXISTING MANHOLES SHALL INCLUDE THE CONSTRUCTION OF NEAT, NEW, WATERTIGHT INVERTS, AS APPROVED BY THE CITY ENGINEER.
- FINAL ADJUSTMENT AND GROUTING OF THE SANITARY SEWER AND STORM DRAIN MANHOLE RINGS SHALL BE DONE BY THE PAVING CONTRACTOR WHEN MANHOLE IS LOCATED IN A PAVED AREA. THE CONTRACTOR INSTALLING THE MAIN SHALL PROVIDE FINAL ADJUSTMENT AND GROUTING OF MANHOLE RINGS UNLESS IN PAVING.

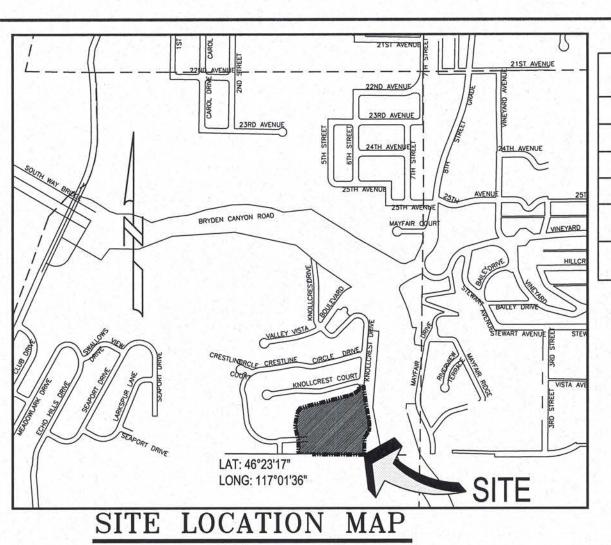


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EROSION CONTROL NOTES

- 1. IF THE PROJECT DISTURBS OVER ONE (1) ACRE OF LAND A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND NOTICE OF INTENT (NOI) ARE REQUIRED, ACCORDING TO THE EPA'S CONSTRUCTION GENERAL PERMIT, AND SHALL BE RETAINED EITHER ON SITE OR WITHIN REASONABLE ACCESS FROM THE SITE. ADDITIONALLY, IF A SITE DISCHARGES WATER DIRECTLY TO SURFACE WATERS OF THE UNITED STATES A SWPPP AND NOI ARE REQUIRED. DELAYS AND DISRUPTIONS RELATING IN WHOLE OR IN PART TO SATISFYING EROSION CONTROL STANDARDS, STATUTES, AND REGULATIONS, OR TO PROCURING ANY NECESSARY PERMITS OR APPROVALS, SHALL NOT BE A BASIS FOR ADJUSTMENT OF CONTRACT TIME OR PRICE. ALL EROSION CONTROL WORK SHALL BE INCIDENTAL TO OTHER BID ITEMS.
- APPROVAL OF THE EROSION CONTROL ELEMENT DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT SITE OR DRAINAGE DESIGN.
- ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL
 OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE NATIONAL POLLUTANT
 DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR
 CONTENTS.
- 4. BMP INSPECTIONS SHALL BE PERFORMED BY QUALIFIED PERSONNEL. QUALIFIED PERSONNEL MEANS A PERSON WHO POSSES THE SKILLS TO ASSESS CONDITIONS AT THE CONSTRUCTION SITE THAT COULD IMPACT STORMWATER QUALITY AND TO ASSESS THE EFFECTIVENESS OF ANY SEDIMENT AND EROSION CONTROL MEASURES SELECTED TO CONTROL THE QUALITY OF STORMWATER DISCHARGES FROM THE CONSTRUCTION ACTIVITY.
- 5. INSPECTIONS SHALL INCLUDE ALL AREAS OF THE SITE DISTURBED BY CONSTRUCTION ACTIVITY AND AREAS USED FOR THE STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION. THE INSPECTOR SHALL LOOK FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE STORMWATER CONVEYANCE SYSTEM. SEDIMENTATION AND EROSION CONTROL MEASURES MUST BE OBSERVED TO ENSURE PROPER OPERATION.
- 6. THE TEMPORARY EROSION AND SEDIMENT CONTROL PLAN SHALL BE MODIFIED TO MATCH THE ACTUAL LOCATIONS OF BMPS AT THE SITE. MODIFICATIONS TO THE PLAN CAN ALSO BE MADE IN THE EVENT THAT THE CONTRACTOR OR INSPECTOR DETERMINES THAT ANY BMP IS INEFFECTIVE, OR THAT A DIFFERENT BMP IS MORE
- IMPLEMENTATION, CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF ALL EROSION CONTROL
 MEASURES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND
 APPROVED AND ALL VEGETATION / LANDSCAPING IS ESTABLISHED.
- 8. THE EROSION CONTROL FACILITIES ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS.
- ALL EROSION CONTROL FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
- 10. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
- 11. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
- 12. DURING PERIODS OF ACTIVE CONSTRUCTION BMP INSPECTIONS SHALL BE PERFORMED ONCE EVERY SEVEN DAYS
- AND WITHIN 24 HOURS OF ANY SIGNIFICANT STORM EVENT (1/2 INCH OR GREATER).

 13. DURING PERIODS OF INACTIVITY BMP INSPECTIONS SHALL BE PERFORMED ONCE MONTHLY AND WITHIN 48 HOURS
- OF ANY SIGNIFICANT STORM EVENT (1/2 INCH OR GREATER).

 14. FILTER FABRIC SHALL BE PLACED UNDER THE GRATES OF NEWLY INSTALLED CATCH BASINS UNTIL PAVING OPERATIONS ARE COMPLETE. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING.
- THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.

 15. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MUST BE TAKEN BY THE CONTRACTOR, IF NECESSARY, TO ENSURE THAT ALL EXISTING PAVED AREAS ARE KEPT CLEAN FOR THE
- 16. SEED, MULCH, AND FERTILIZE ALL DISTURBED GROUND NOT RECEIVING HARD SURFACE AT THE EARLIEST
- POSSIBLE TIME. USE SEED MIXES AND RATES AS PER LANDSCAPE DESIGNER.

 17. EROSION AND DUST CONTROL MEASURES MUST BE USED DURING CONSTRUCTION TO REDUCE OR ELIMINATE BLOWING DUST, EXCESSIVE RUNOFF, AND SOIL EROSION ACROSS PROPERTY LINES AND INTO STREETS AND RIGHT-OF-WAY, AND TO ELIMINATE TRACKING SOIL AND MUD ONTO STREETS FROM CONSTRUCTION EQUIPMENT AND VEHICLES. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST
- SUPPRESSION OPERATIONS IS PROHIBITED.

 18. ALL ENTRANCES NOT PROTECTED WITH A CONSTRUCTION ENTRANCE FEATURE SHALL BE BLOCKED.
- ALL ENTRANCES NOT PROTECTED WITH A CONSTRUCTION ENTRANCE FEATURE SHALL BE BL
 MATERIAL TRACKED ONTO THE ROADWAY CANNOT BE WASHED INTO THE STORM SYSTEM.

DURATION OF THE PROJECT.

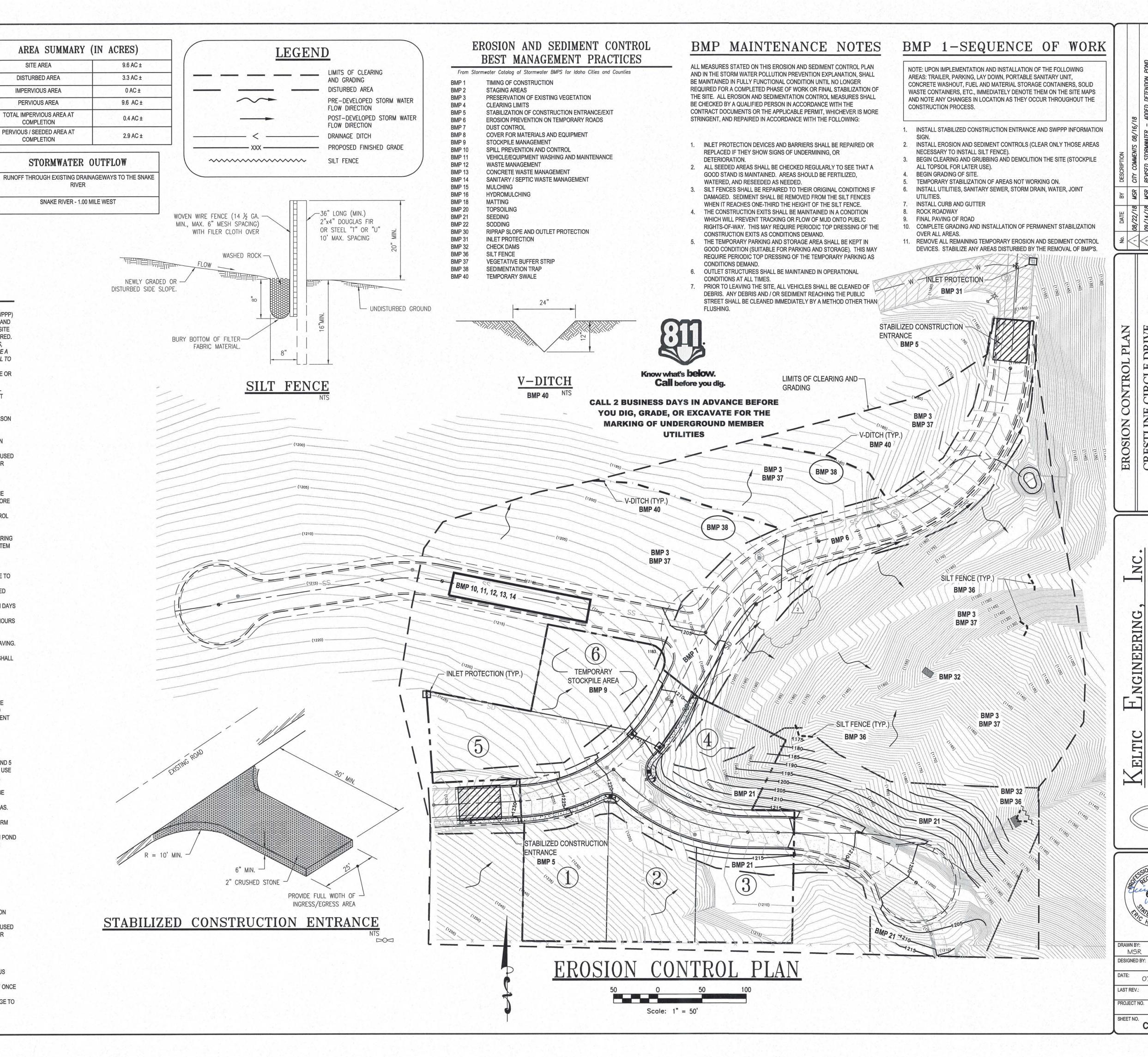
- STREETS SHALL BE SWEPT PRIOR TO A STORM EVENT OR AT THE REQUEST OF THE ENGINEER OR THE CITY.
 ALL DENUDED AREAS THAT WILL BE INACTIVE FOR 10 DAYS DURING DRY SEASON (JULY 1 SEPTEMBER 30) AND 5 DAYS DURING WET SEASON (OCTOBER 1 JUNE 30) OR MORE, MUST BE STABILIZED TEMPORARILY WITH THE USE OF FAST-GERMINATING ANNUAL GRASS / GRAIN VARIETIES, STRAW / HAY MULCH, WOOD CELLULOSE FIBERS,
- TACKIFIERS, NETTING OR BLANKETS AS SHOWN ON SITE MAP.

 22. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY STABILIZED AS SHOWN ON THE PLANS. THESE AREAS SHALL BE SEEDED, SODDED, AND / OR VEGETATED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS.
- REFER TO THE GRADING PLAN AND / OR LANDSCAPE PLAN.

 23. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- 24. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM DRAINAGE SYSTEMS IN CONJUNCTION WITH STABILIZATION OF THE SITE.
- 25. ON-SITE & OFF-SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT PROFILES.
- 26. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF
- 27. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, ETC.) TO PREVENT EROSION AND POLLUTANT DISCHARGE.
- 28. INSPECTIONS SHALL INCLUDE ALL AREAS OF THE SITE DISTURBED BY CONSTRUCTION ACTIVITY AND AREAS USED FOR THE STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION. THE INSPECTOR SHALL LOOK FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE STORMWATER CONVEYANCE SYSTEM.

 SEDIMENTATION AND EROSION CONTROL MEASURES MUST BE OBSERVED TO ENSURE PROPER OPERATION.
- SEDIMENTATION AND EROSION CONTROL MEASURES MUST BE OBSERVED TO ENSURE PROPER OPERATION.

 29. GENERAL CONTRACTOR IS TO DESIGNATE / IDENTIFY AREAS ON THE SITE MAPS, INSIDE OF THE LIMITS OF DISTURBANCE, FOR WASTE DISPOSAL AND DELIVERY AND MATERIALS STORAGE.
- REFER TO THE SWPPP FOR REPORTABLE SPILL QUANTITIES OF PETROLEUM PRODUCTS AND / OR HAZARDOUS WASTES.
- 31. THE CONTRACTOR MUST COMPLY WITH A SITE SWEEPING PLAN WITH A MINIMUM SWEEPING FREQUENCY OF ONCE PER WEEK IN DRY WEATHER CONDITIONS AND ONCE PER DAY WHEN RAINFALL OCCURS.
- 32. SEDIMENT OR OTHER POLLUTION-LADEN STORM WATER TO BE CONTAINED AND NOT ALLOWED TO DISCHARGE TO A STORM DRAIN.



DRIVE

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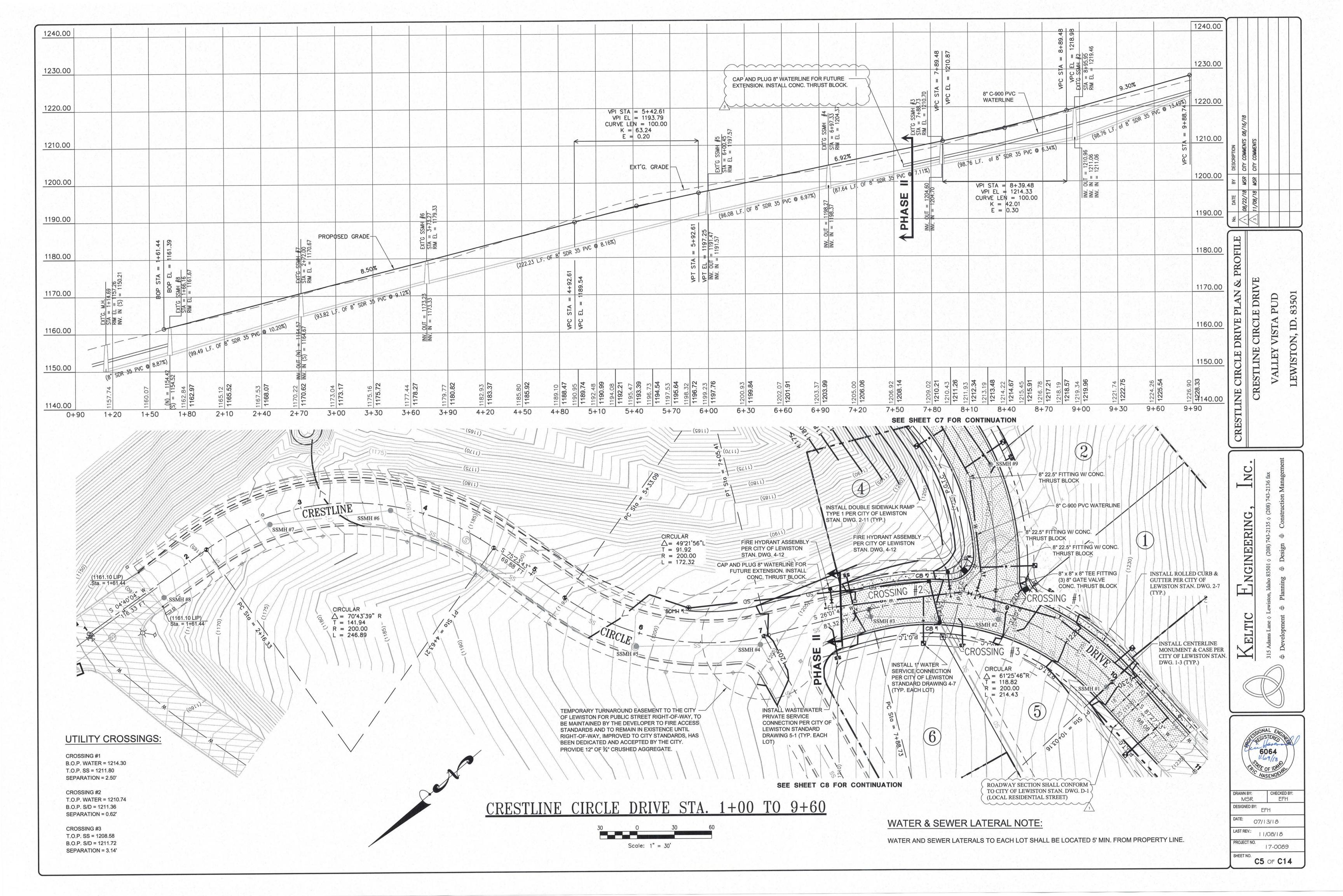
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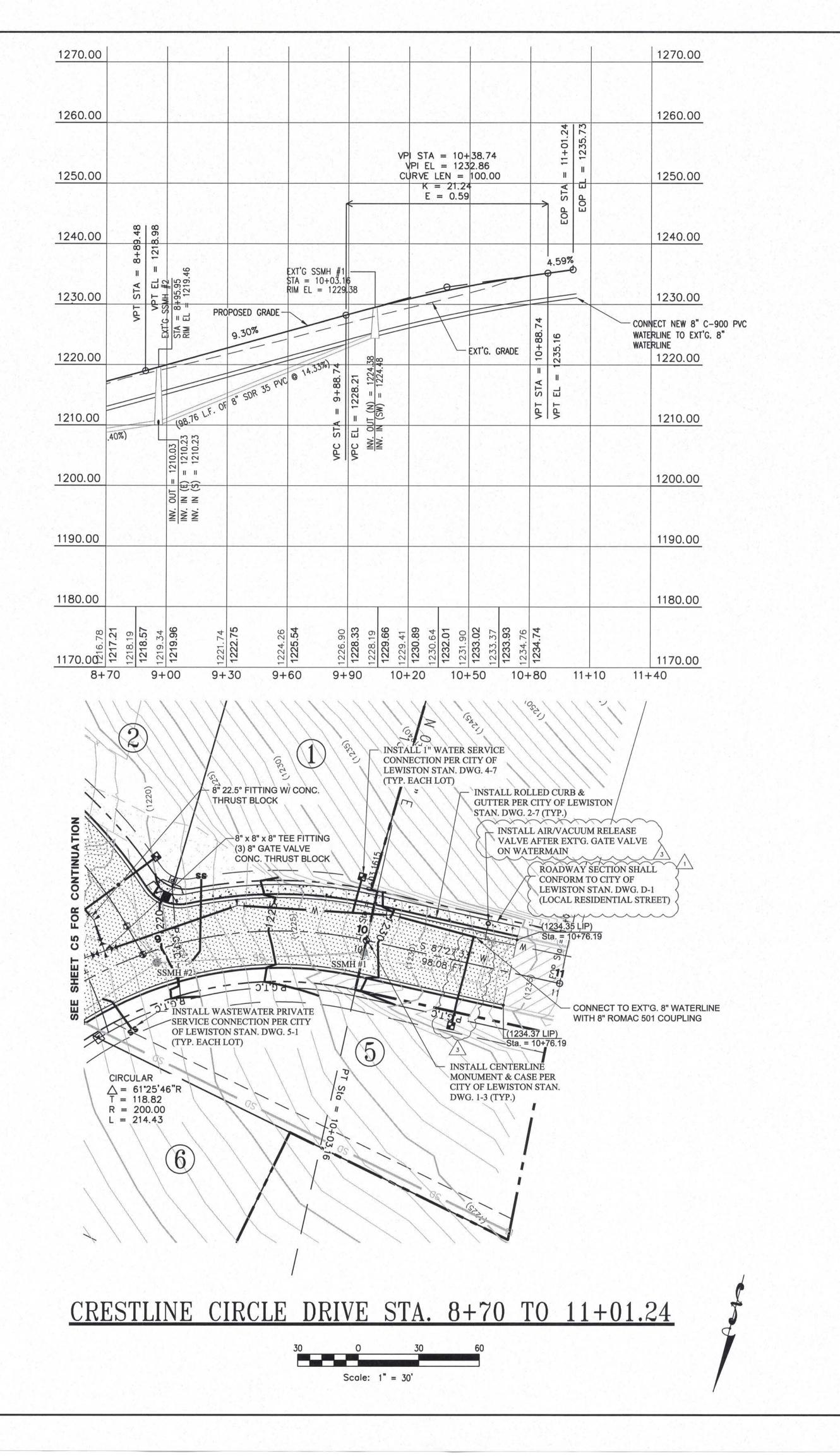
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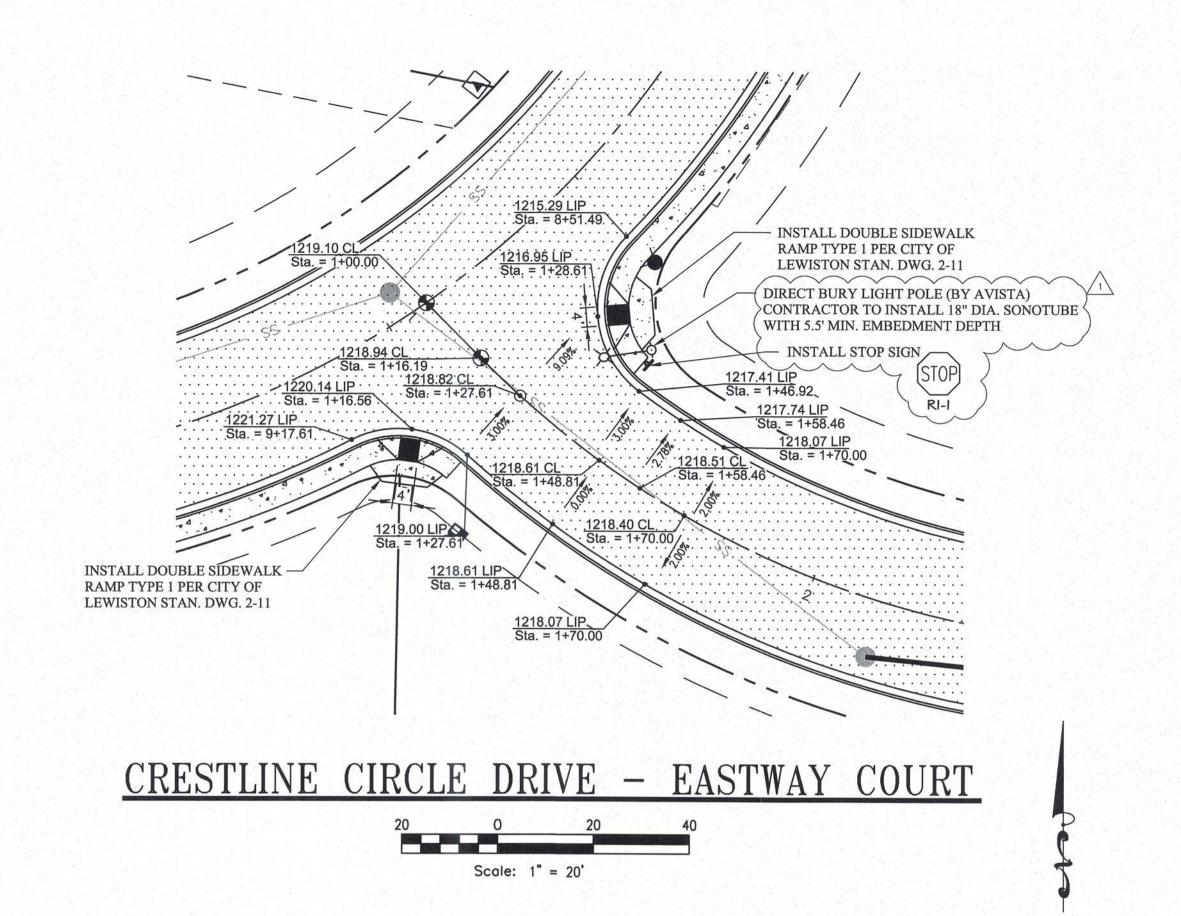
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CRESTLINE CIRCLE DRIVE INTERSECTIONS NC ENGINEERING

CRESTLINE CIRCLE DRIVE

VALLEY VISTA PUD



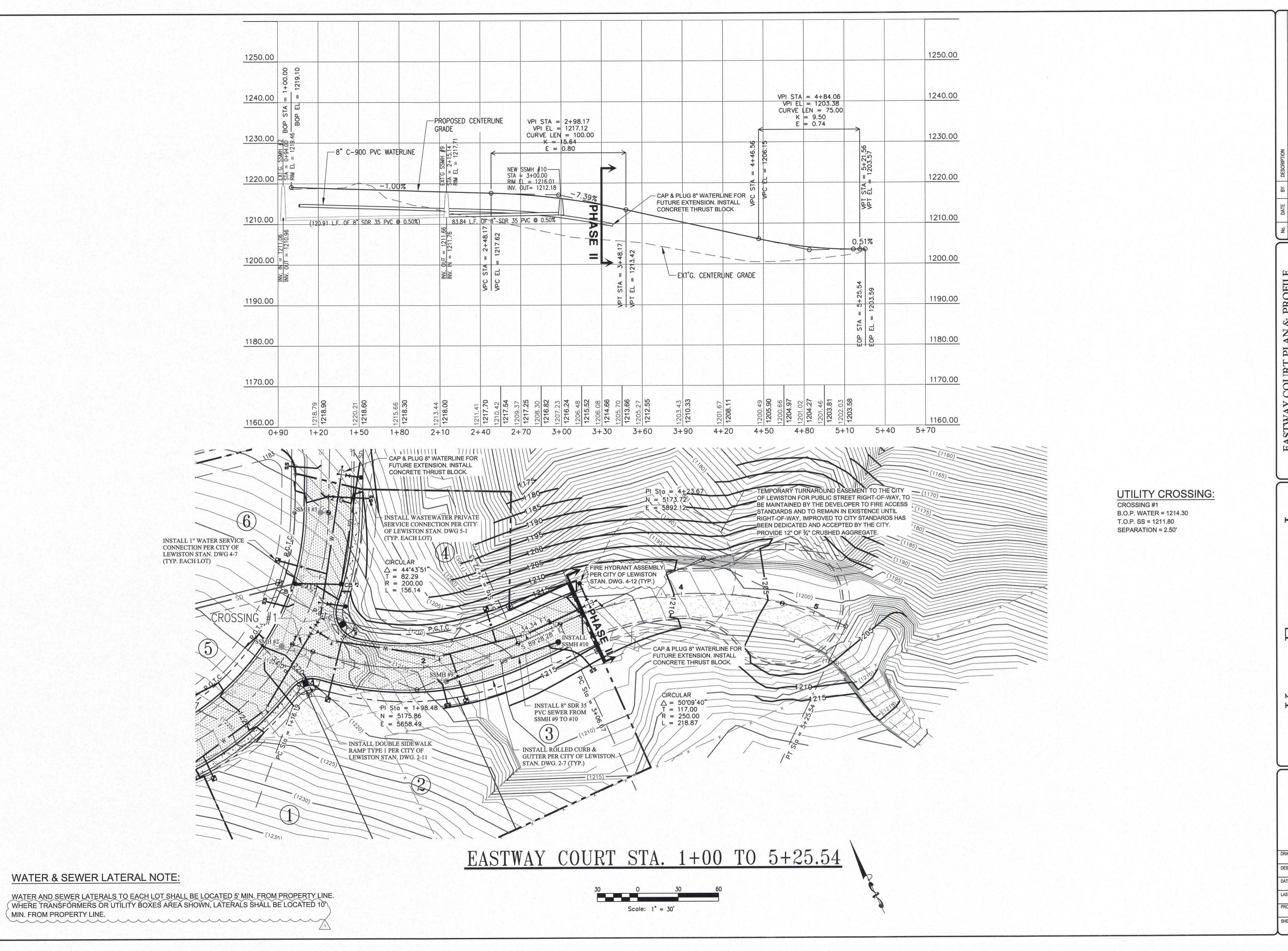
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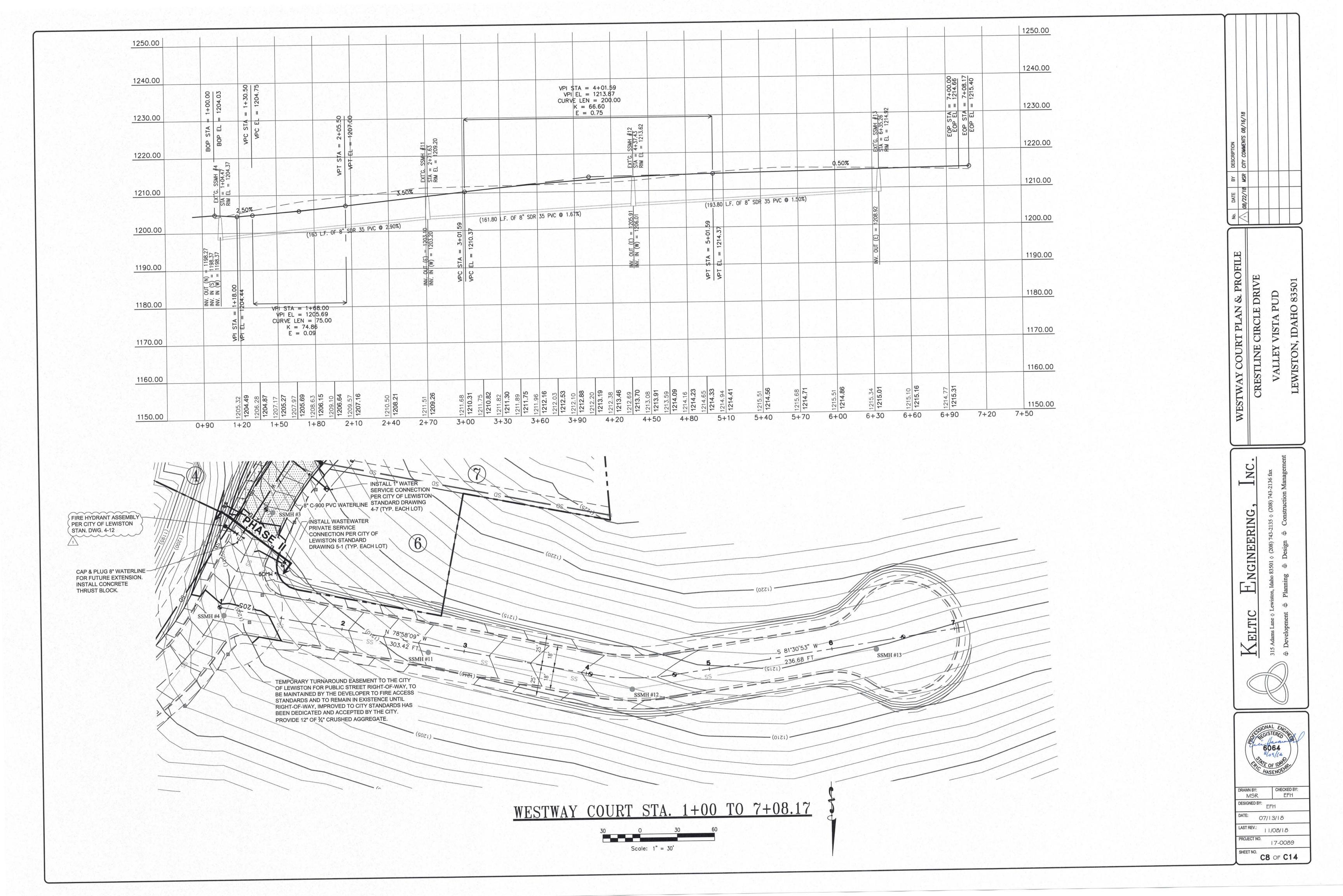
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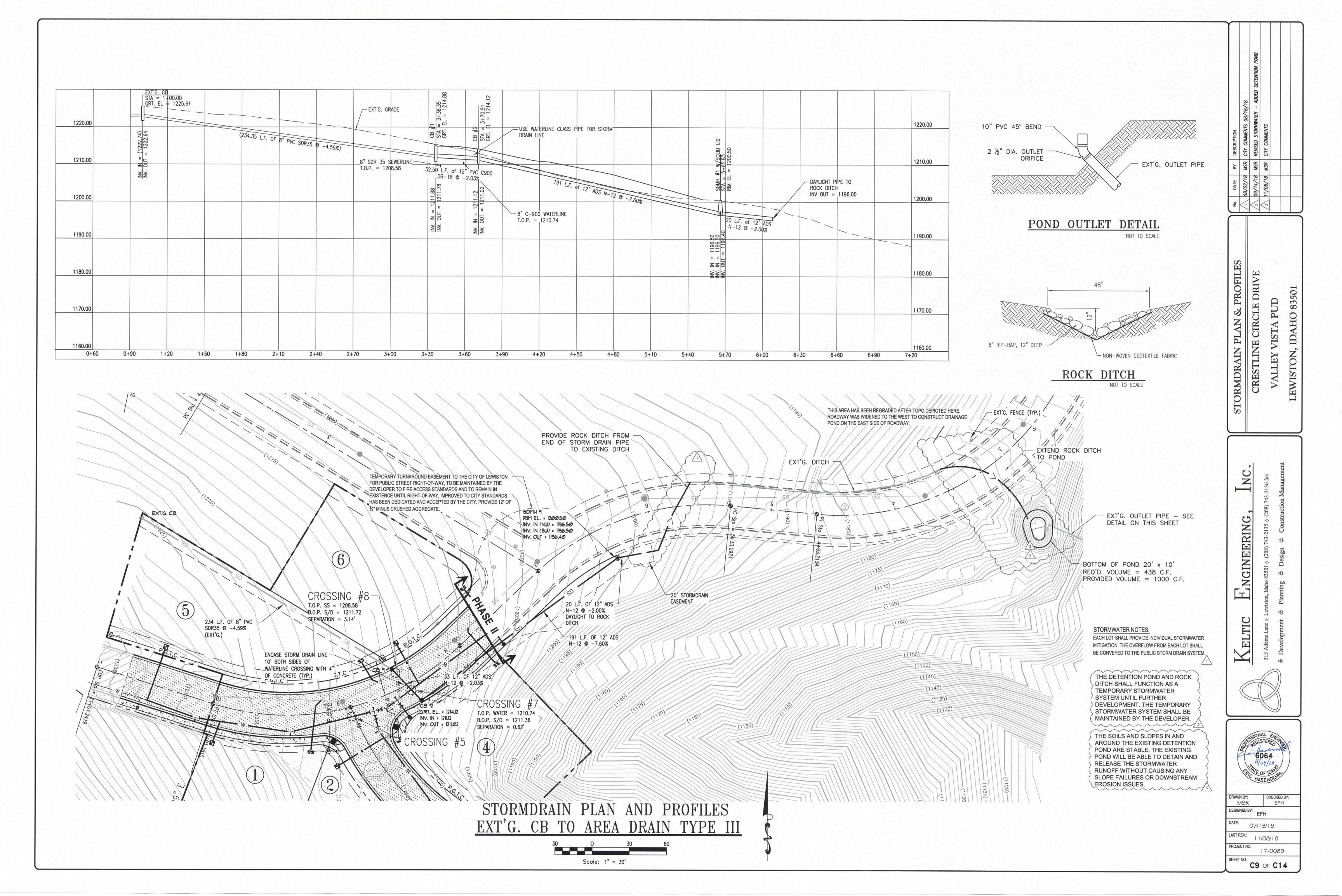


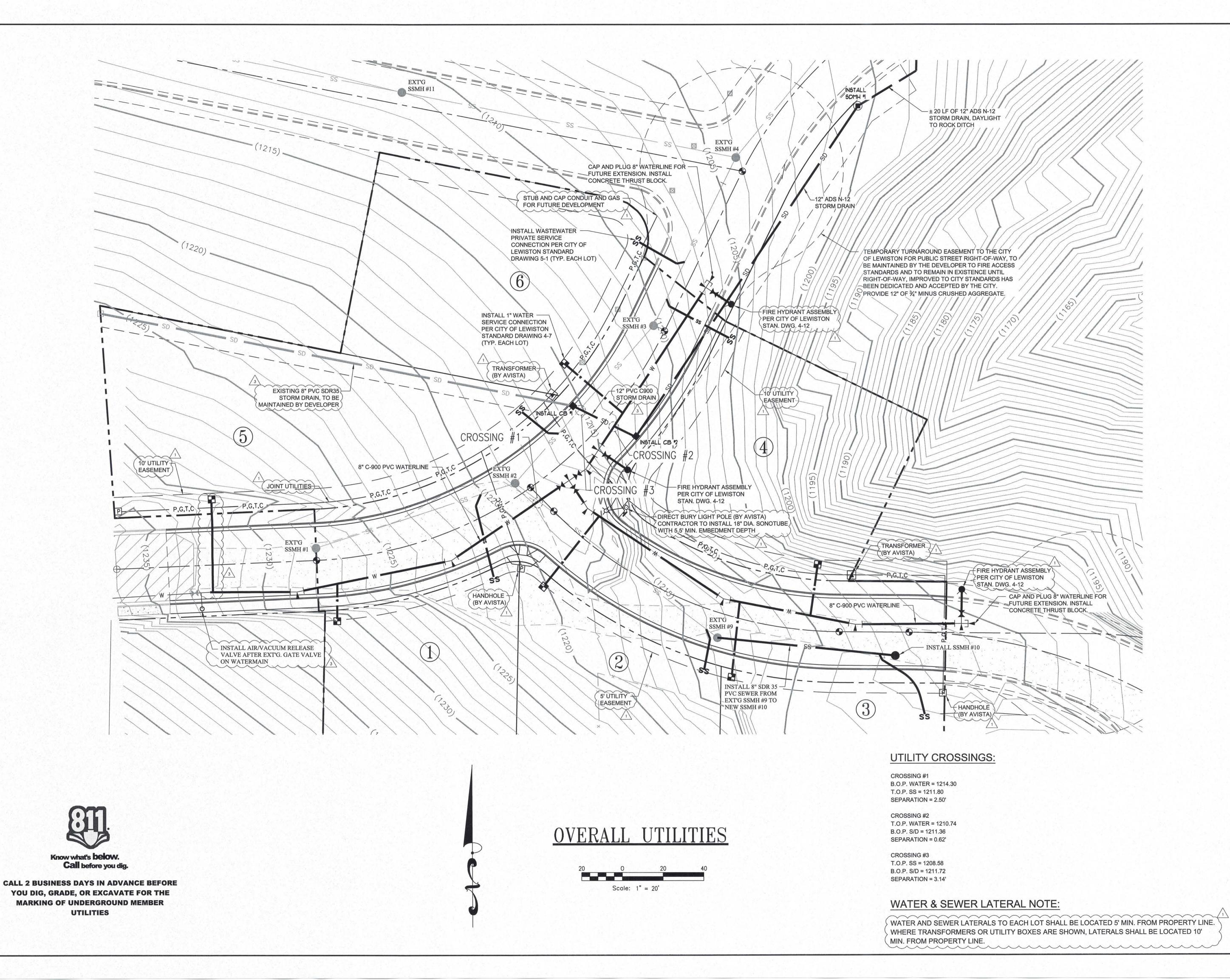
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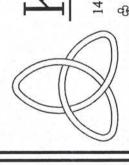


CIRCLE DRIVE VISTA OVERALL CRESTLINE

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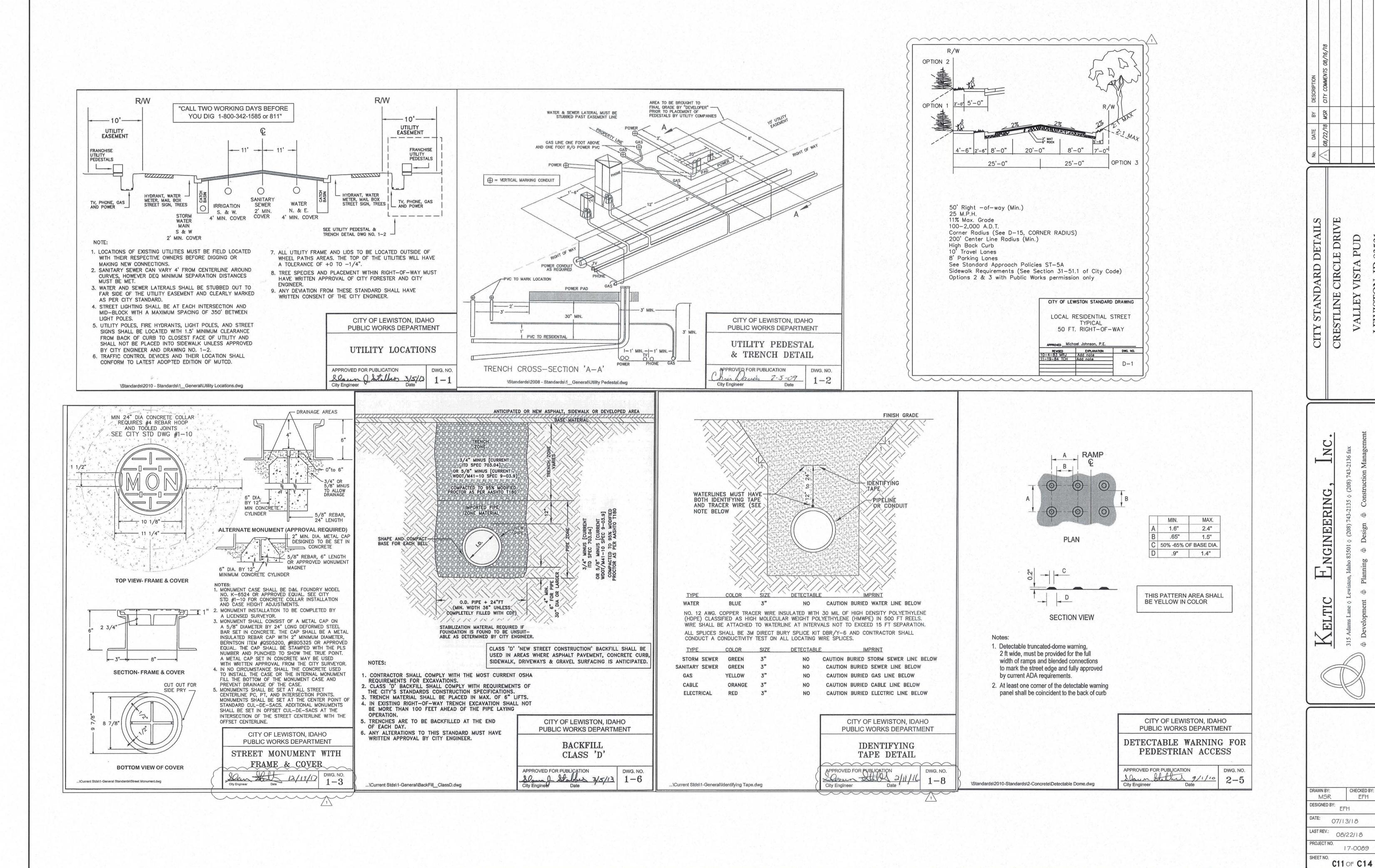


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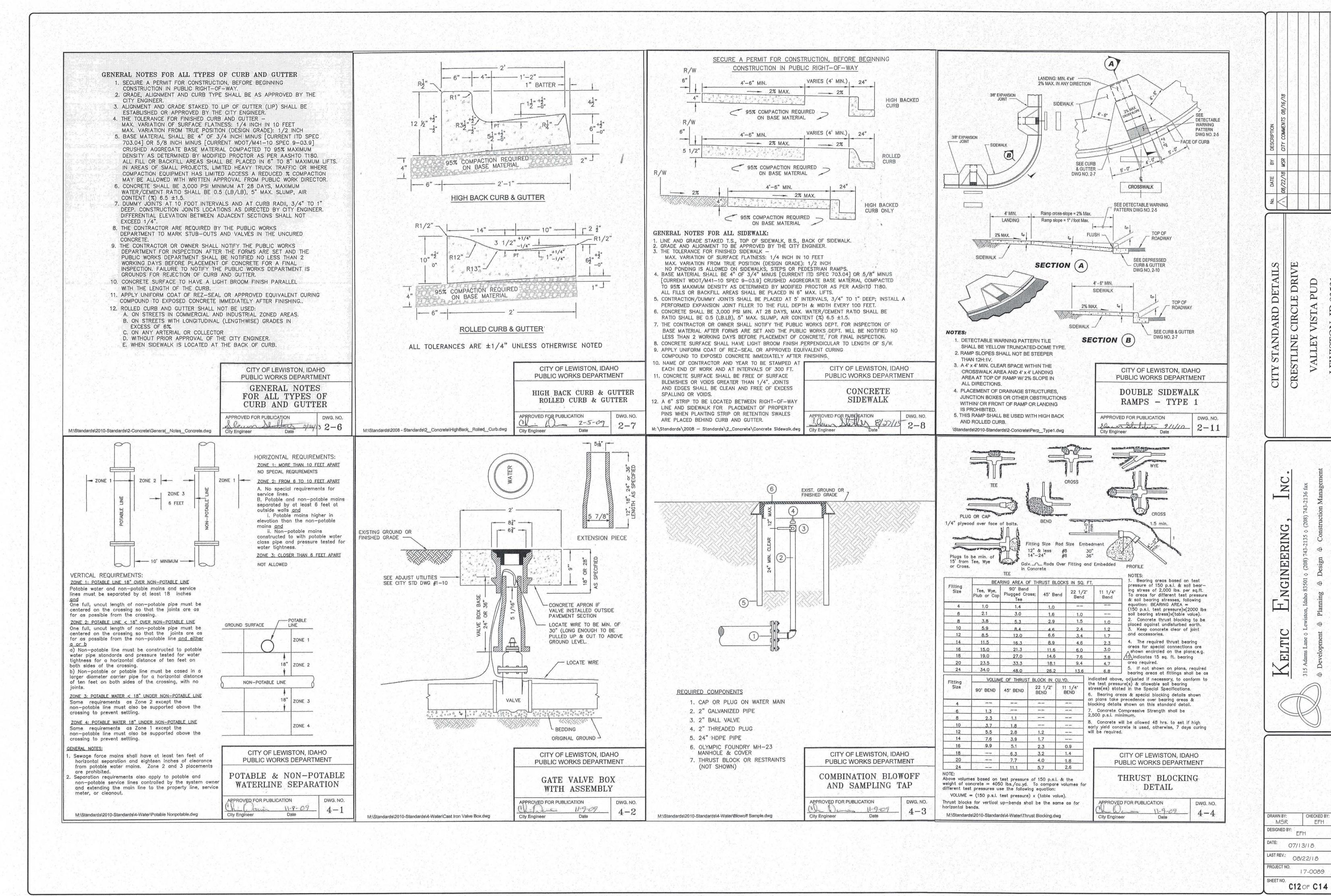
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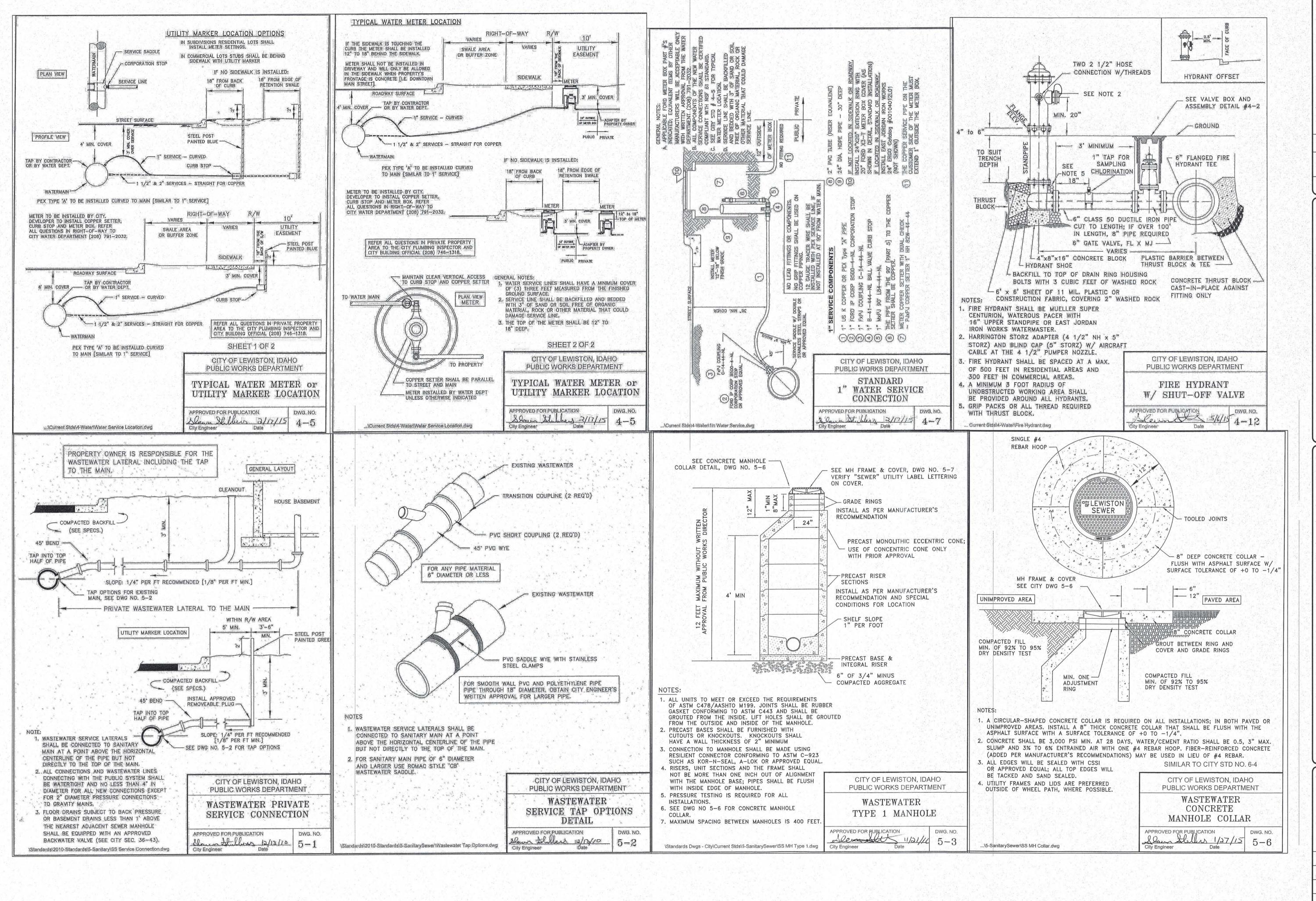


VALLEY

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CITY STANDARD DETAILS
CRESTLINE CIRCLE DRIVE
VALLEY VISTA PUD

KELTIC FINGINEERING, INC.

DRAWN BY: CHECKED BY: EFH

DESIGNED BY: EFH

DATE: 07/13/18

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