

OWNER		
RPL DEVELOPMENT CO., INC.		
P.O. BOX 499		
Lewiston, ID 83501		
GEOTECHNICAL SERVICES		
ALLWEST TESTING & ENGINEERING, LLC		
2705 E. MAIN STREET		
LEWISTON, IDAHO		
UTILITY PROVIDERS		
SANITARY SEWER	CITY OF LEWISTON (Bryan Lacy)	208-743-1316
WATER	L.O.I.D.	208-746-8235
POWER	AVISTA (Colby Witters)	509-780-1475
TELECOM.	CENTURY LINK (Julio Mendez)	208-798-8380
CABLE T.V.	CABLEONE (Tom Donahue)	208-791-5032



	PROPOSED SAN. SEWER		EXISTING SAN. SEWER
	PROPOSED STORM SEWER		EXISTING STORM SEWER
	PROPOSED WATER LINE		EXISTING WATER LINE
	PROPOSED FIRE PROTECTION		EXISTING FIRE PROTECTION
	PROPOSED FENCE LINE		EXISTING OVERHEAD ELECTRICAL LINE
	PROPOSED CATCH BASIN		EXISTING UNDERGROUND ELECTRICAL LINE
	PROPOSED MANHOLE		EXISTING FENCE LINE
	PROPOSED WATER METER		EXISTING CATCH BASIN
	PROPOSED GATE VALVE		EXISTING MANHOLE
	PROPOSED FIRE HYDRANT		EXISTING GATE VALVE
	PROPOSED THRUST BLOCK		EXISTING FIRE HYDRANT
	PROPOSED CONTOUR LINE		EXISTING THRUST BLOCK
	PROPOSED SPOT ELEVATION		EXISTING WATER METER
	PROPOSED CENTERLINE MONUMENT		EXISTING POWER POLE
	PROPOSED CENTERLINE		EXISTING CONTOUR LINE
	PROPOSED EASEMENT LINE		EXISTING SPOT ELEVATION
	PROPERTY LINE		EXISTING UTILITY
	PROJECT BOUNDARY		EXISTING PROPERTY LINE
	SILT FENCE		EXISTING CENTERLINE MONUMENT

ITEM	MATERIAL	TEST / STANDARD	ACCEPTANCE	TEST FREQUENCY	INSPECTOR/C.O.	DATE / INITIAL
1. ALL UTILITY TRENCHES & STRUCTURES						
TRENCH 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)	Allwest Testing	
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 WD OTM4-1.10 Spec 9-3.9.3)	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)	Allwest Testing	
18" 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 WD OTM4-1.10 Spec 9-3.9.3)	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)	Allwest Testing	
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 WD OTM4-1.10 Spec 9-3.9.3)	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)	Allwest Testing	
STRUCTURAL FILLS	As Spec'd by Engineer	As Spec'd by Engineer		As Spec'd by Engineer	Allwest Testing	
2. STORM DRAIN MAINS						
GAS-TESTED PE Storm Sewer Pipe ALIGNMENT AND GRADE	Polyethylene, ADS N-12 or Equal N/A	Per Manufacturer's Instructions	Certified & Visually by City	Per Plan	Certified & Visually by City	
JOINTS (Ejection/Proper Pipe Embedment)	N/A	Per Manufacturer's Instructions	Each Joint	Between Access Holes		
PRESSURE TEST	Concrete	4 PSI for 15 Minutes, 1/2 PSI Drop	If required by City Engineer			
MANHOLES	Concrete	City Standard		N/A	Certified & Visually by City	
VIDEO INSPECTION	N/A	N/A	Public Works Policy No 3012-2			
3. WATER MAINS						
DUCTILE IRON or PVC WATER MAIN ALIGNMENT AND GRADE	AWWA C-151, C-900, C-905 (Class as Reg'd) N/A	AWWA C-600, AWWA C-605 AWWA C-600, AWWA C-605	Certified & Visually by City	Per Plan	Certified & Visually by City	L.O.I.D.
JOINTS (Ejection/Proper Pipe Embedment)	Concrete, 2000 PSI Mix	Per Approved Plan/for City Std Dep #4-4	Each Joint	Between Access Holes	Certified & Visually by City	
THRUST BLOCKS	N/A	2 Hrs. NTE Allowable Leakage Per AWWA C-600, AWWA C-605	L.O.I.D.	15% Working Pressure		
HYDROSTATIC PRESSURE	N/A	N/A	L.O.I.D.	Each Joint		
CHLORINATION/BACTERIA	N/A	AWWA C-651	L.O.I.D.	Electronic Testing, two negative testing samples 24 hours apart	L.O.I.D.	
4. WASTEWATER MAINS						
PVC WASTEWATER MAIN ALIGNMENT AND GRADE	PVC, SDR 35 N/A	ASTM 3034	Cert. & Visual by City	N/A	Cert. & Visual by City	
JOINTS (Ejection/Proper Pipe Embedment)	N/A	Per Manufacturer's Instructions	Each Joint	Between Access Holes		
PRESSURE TEST	Concrete	Hydrostatic Test 4 PSI for 15 Minutes, 1/2 PSI Drop	Cert. & Visual by City		Cert. & Visual by City	
VIDEO INSPECTION	N/A	N/A Penetrations, Dents or Damages, No Bellies > 0.02"		Between Access Holes	Contractor	
5. CONCRETE CURB, GUTTER & SIDEWALK						
CONCRETE	CLASS 305 - Approved Mix Design. Required with Min Cement Content of 560 Lb/Cy, Max Water Cement Ratio of .44, a WRA, and a VFA.	AASHTO T-22 Compressive Strength of Concrete AASHTO T-29 Making Test Specimens AASHTO T-119 Slump of Hydraulic Cement Concrete AASHTO T-152 Air Content of Freshly Mixed Concrete AASHTO T-209 Temperature of Freshly Mixed Concrete WAGTQ T-209 Theoretical Maximum Density (RCC)	Min. 28 day Compressive Strength = 3000 psi, Water/Cement Ratio shall be 0.50 Max. Slump = 5 inches Air Content Percent = +6.5% ± 1.5 Temperature = 60°F - 80°F	1 of Each Test Minimum per Day, or 1 of Each Test per 50 CY	Allwest Testing	
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 WD OTM4-1.10 Spec 9-3.9.3)	Moisture Density Relationship of Soils (AASHTO T 180) In-Place Density and Moisture Content (AASHTO 310 Method B)	90% Max. Dry Density	1 Tests Per 500 LF-Min 2 Tests	Allwest Testing	
ALIGNMENT AND GRADE	N/A	Visual	± 0.02' from Design Grade/Alignment	Per 10' Section	City Approval	
COMPLIANCE/STRAIGHTNESS	N/A	Visual	± 0.02' 10' Segment	Per 10' Section		
FINISH	N/A	Visual	Finished, Uniform, Light Brown Finish	Entire Surface Area		
6. ASPHALTIC CONCRETE PAVING						
SUPERPAVE HOT MIX ASPHALT	ITD 405 Superpave Class SP2, SP3 and SP5 (2012) (ITD Spec 405 and 700.05)	Class SP2: AASHTO T-208, Asphalt Content AASHTO T-272 & T-11, Sieve Analysis WAGTQ TM-8, In-Place Density of Bituminous Mixes AASHTO T-209, Theoretical Maximum Density (RCC) Class SP3 and SP5: AASHTO T-208, Asphalt Content AASHTO T-272 & T-11, Sieve Analysis AASHTO T-166 Method A, Air Voids, and Voids in Mineral Aggregate (VMA) WAGTQ TM-8, In-Place Density of Bituminous Mixes AASHTO T-209, Theoretical Maximum Density (RCC)	ITD Section 405.03 Asphalt Content - CJNF Value +0.3% Sieve Analysis - Table 405.03-6 Air Voids - 4.0% ± 1.0% Voids in Mineral Aggregates, at 1 1/2" design 700.05 Minimum Value 1.0% Voids Filled with Asphalt - Table 700.05-1 + 0.5% In-Place Density - 92-95% of Maximum Theoretical	1 Test Per 750 Ton, Minimum of 1 Test per Project. Random Sample Locations Determined by City Engineer	Allwest Testing	
CRUSHED AGGREGATE BASE COURSE*	*Same test requirements as under 5. Concrete Curb, Gutter & Sidewalk				Allwest Testing	
7. EROSION & SEDIMENT CONTROLS						
Per Approved Plan	Per Plan and Manufacturer's Instructions			N/A or After Every Rainfall		
8. TRAFFIC CONTROL						
Per Approved Plan	Current Adopted MUTCD ATSSA			Continuous	Contractor	
9. PRIVATE STORMWATER SYSTEM						
Per Approved Plan	City Resolution #80-100		Certified & Visually by City	Before Public Improvements Accepted	HEDCO, Inc., HEDCO, Inc.,	
10. RECORD DRAWINGS	AutoCAD, Elect File, Bond Paper, 22" x 34" Min Size	City Checklist				
11. ENGINEER'S CERTIFICATION						
Date Last Revised September 2016						
REVISION						

1.	Mobilization	Lump Sum	11a.	8" Gate Valves	7 Each
2.	Project Earthwork (street construction)	Lump Sum	11b.	12" Gate Valves	4 Each
3a.	8" Base Course	6,300 Sq. Yds	12a.	4.5' Conc. Sidewalk	12,000 S.F.
3b.	10" Base Course	3900 Sq. Yds	12b.	Pedestrian Ramps	9 Each
4a.	3" Bituminous Pavement	7,890 Sq. Yds	12c.	Conc. Driveway Approaches	3 Each
4b.	2-1/2" Bituminous Pavement	2,140 Sq. Yds	13.	Utilities Trenching	2200 L.F.
5a.	Conc. Rolled Curb	2,225 L.F.	14.	Utilities Conduit	Lump Sum
5b.	Conc. High Back Curb	1,390 L.F.	15.	Fire Hydrants	4 Each
6.	Catch Basins	90 Each	16.	Water Services (copper piping)	23 Each
7a.	12" HDPE Storm Drain	520 L.F.	17.	Temp. Stormwater Infiltration Basin	Lump Sum
7b.	18" HDPE Storm Drain	120 L.F.	18.	Stormwater Detention Basin & Access Rd.	Lump Sum
7c.	4" Dia. Storm Sewer Manholes	60 V.F.	19.	Traffic Control	Lump Sum
8a.	18" PVC Sanitary Sewer	742 L.F.	20.	Fabricated Bollards	8 Each
8b.	4" Sanitary Sewer Services	840 L.F.	21.	Constr. Stormwater Mangmt.	Lump Sum
9.	4" Dia. San. Sewer MH	20 V.F.			
10a.	8" C900 PVC Water Main	1,640 L.F.			
10b.	12" C900 PVC Water Main	710 L.F.			

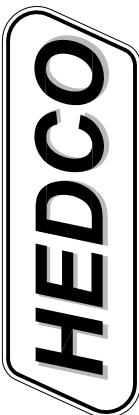
C1	GENERAL NOTES & DETAILS
C2	EXISTING SITE CONDITIONS
C3	CONSTRUCTION EROSION & SEDIMENT CONTROL PLAN
C4	SITE DEVELOPMENT PLAN
C5	SITE GRADING PLAN
C6	FRANCHISE UTILITIES PLAN
C7	STORMWATER DETENTION BASIN
C8	18TH STREET PLAN & PROFILE
C9	HIDDEN VALLEY LOOP PLAN & PROFILE
C10	HIDDEN VALLEY LOOP INTERSECTION
C11	APPALOOSA DRIVE PLAN & PROFILE
C12	CANYON CREST DRIVE PLAN & PROFILE
C13	ALLEY PLAN & PROFILE

C15	18TH STREET STREET X-SECTIONS
C16	HIDDEN VALLEY LOOP X-SECTIONS
C17	HIDDEN VALLEY LOOP X-SECTIONS
C18	APPALOOSA DRIVE X-SECTIONS
C19	CANYON CREST DRIVE X-SECTIONS
C20	ALLEY X-SECTIONS
C21	MAINTENANCE ACCESS ROAD X-SECTIONS
C22	STANDARD DRAWINGS
C23	" "
C24	" "
C25	" "
C26	" "

AS CONSTRUCTED
HEDCO, Inc.
528 Bryden Ave.
Lewiston, ID 83501

Jack S. Hammond, P.E.
10/30/17

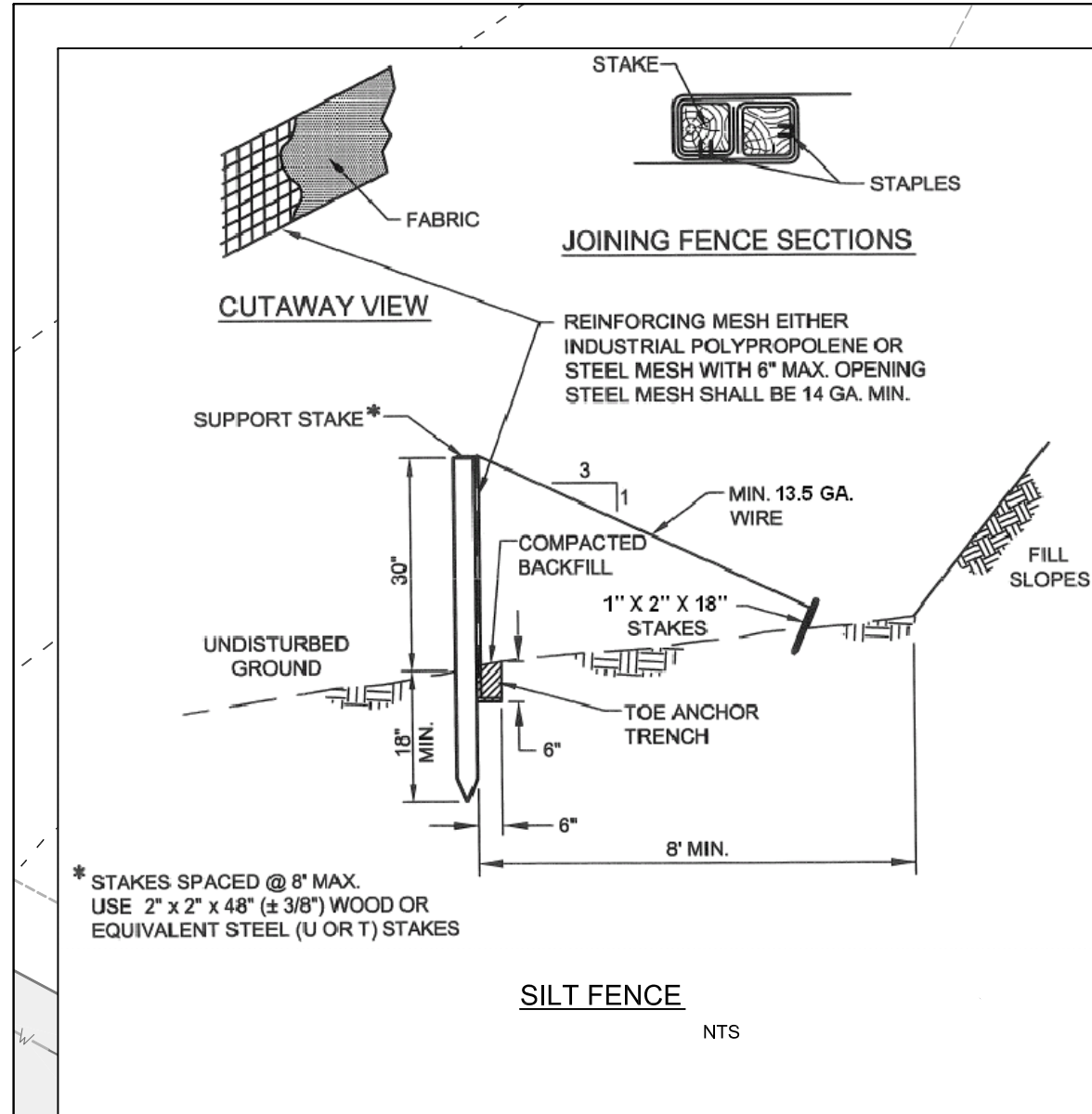
**AT CANYON CREST - PHASE III/ PROJECT IIIA
COVER SHEET
RPL DEVELOPMENT CO., INC.
LEWISTON, IDAHO**



HAMMOND ENGINEERING & DEVELOPMENT CO.
528 BRYDEN AVENUE LEWISTON, IDAHO 83501
(208) 798-5422

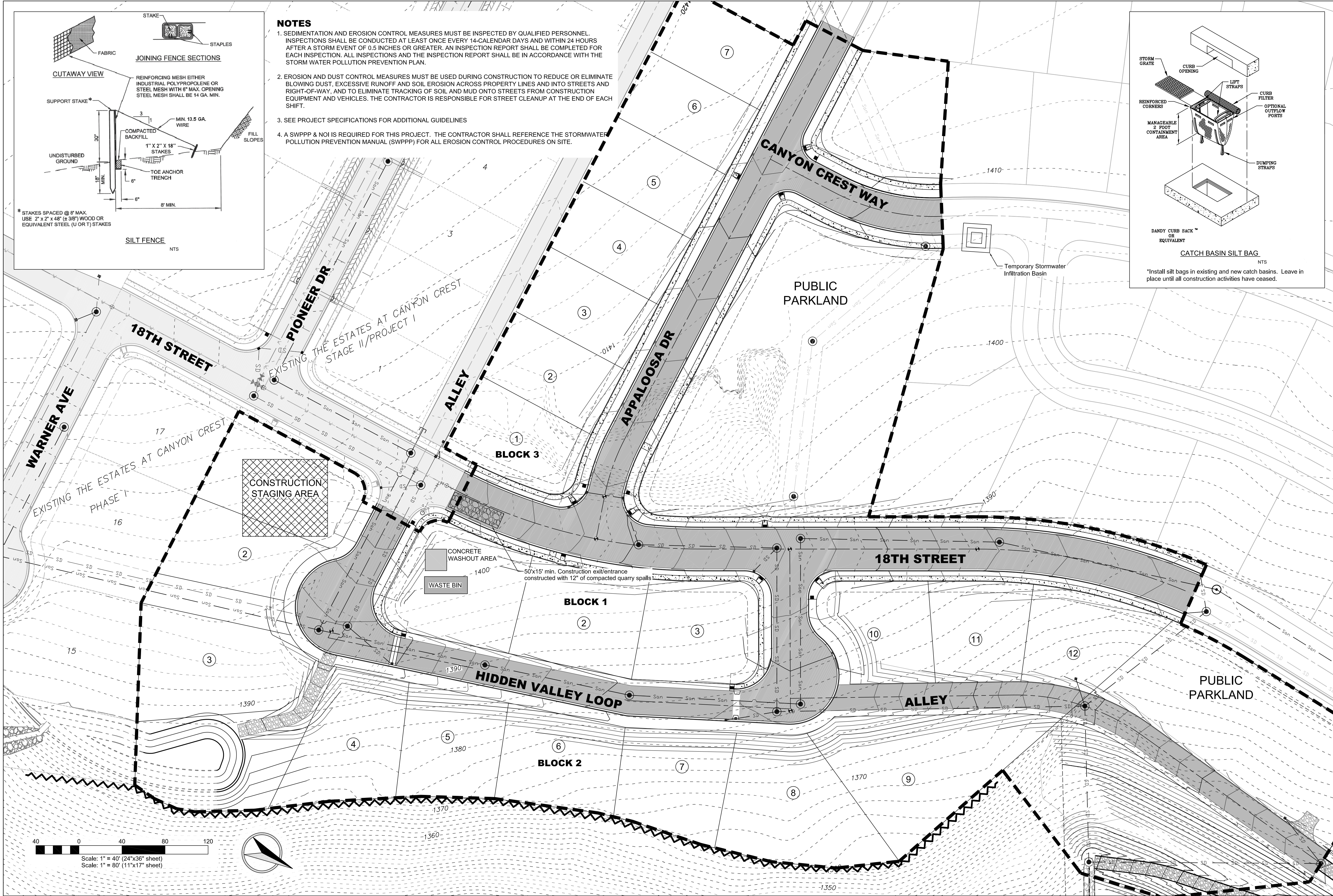
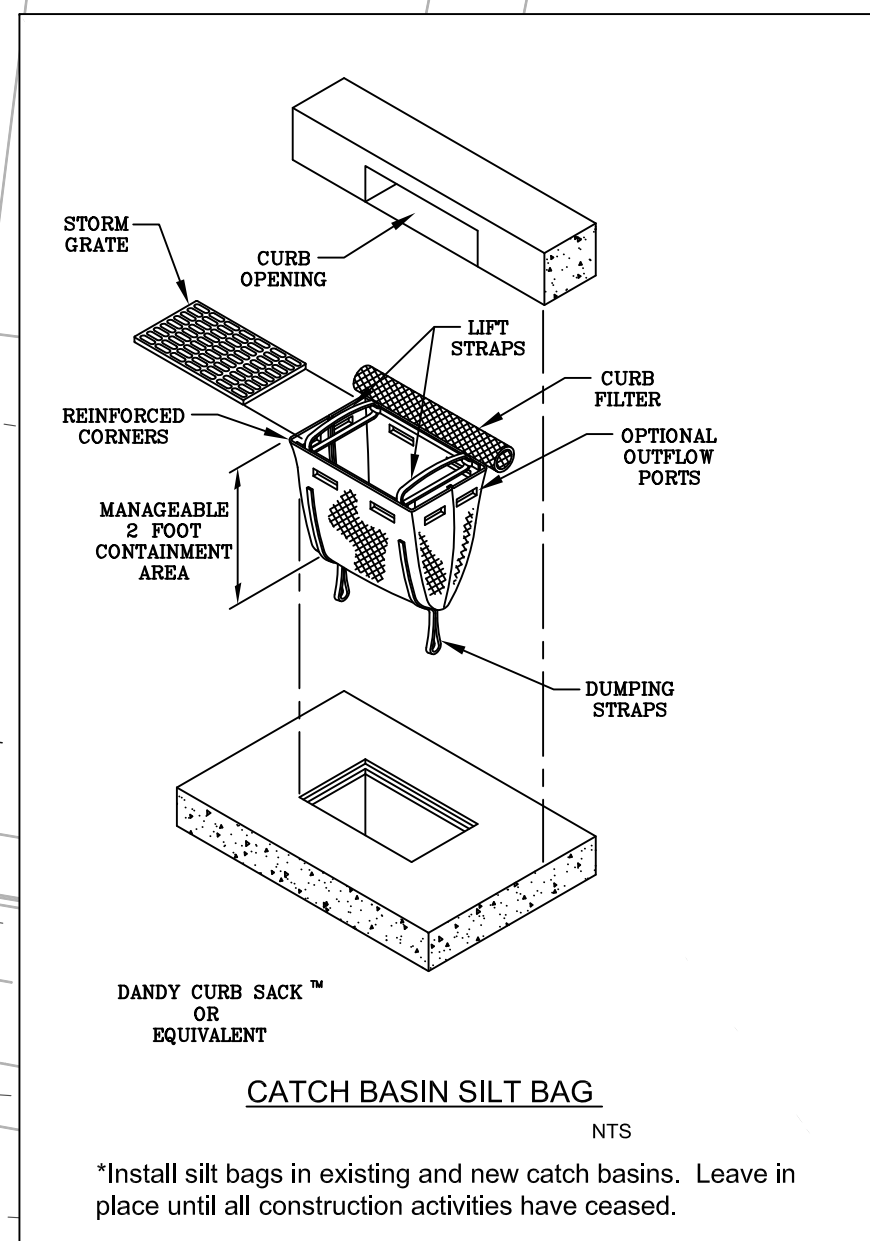
COVER SHEET
RPL DEVELOPMENT CO., INC.
LEWISTON, IDAHO

1650-C0



NOTES

1. SEDIMENTATION AND EROSION CONTROL MEASURES MUST BE INSPECTED BY QUALIFIED PERSONNEL. INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY 14-CALENDAR DAYS AND WITHIN 24 HOURS AFTER A STORM EVENT OF 0.5 INCHES OR GREATER. AN INSPECTION REPORT SHALL BE COMPLETED FOR EACH INSPECTION. ALL INSPECTIONS AND THE INSPECTION REPORT SHALL BE IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN.
2. 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 OF SOIL AND MUD ONTO STREETS FROM CONSTRUCTION EQUIPMENT AND VEHICLES. THE CONTRACTOR IS RESPONSIBLE FOR STREET CLEANUP AT THE END OF EACH SHIFT.
3. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL GUIDELINES
4. A SWPPP & NOI IS REQUIRED FOR THIS PROJECT. THE CONTRACTOR SHALL REFERENCE THE STORMWATER POLLUTION PREVENTION MANUAL (SWPPP) FOR ALL EROSION CONTROL PROCEDURES ON SITE.



REVISION		DESCRIPTION	CHECKED	APPROVED
REV	DATE			
LTR				
REGISTERED PROFESSIONAL ENGINEER LAND SURVEYOR #2102 DATE OF EXPIRATION 3/31/17 DATE OF SIGNATURE 3/31/17				
SHEET	C3	DRAWING #	1650-C3	

THE ESTATES AT CANYON CREST - PHASE III/ PROJECT IIIA

CONSTRUCTION EROSION & SEDIMENT CONTROL PLAN

RPL DEVELOPMENT CO., INC.

LEWISTON, IDAHO

HEDCO

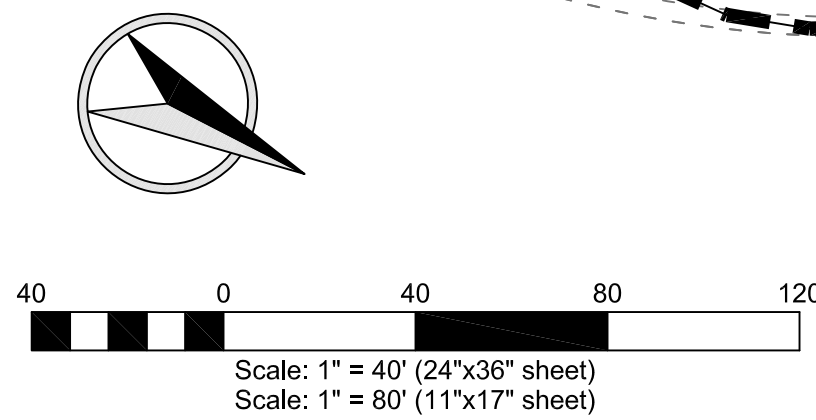
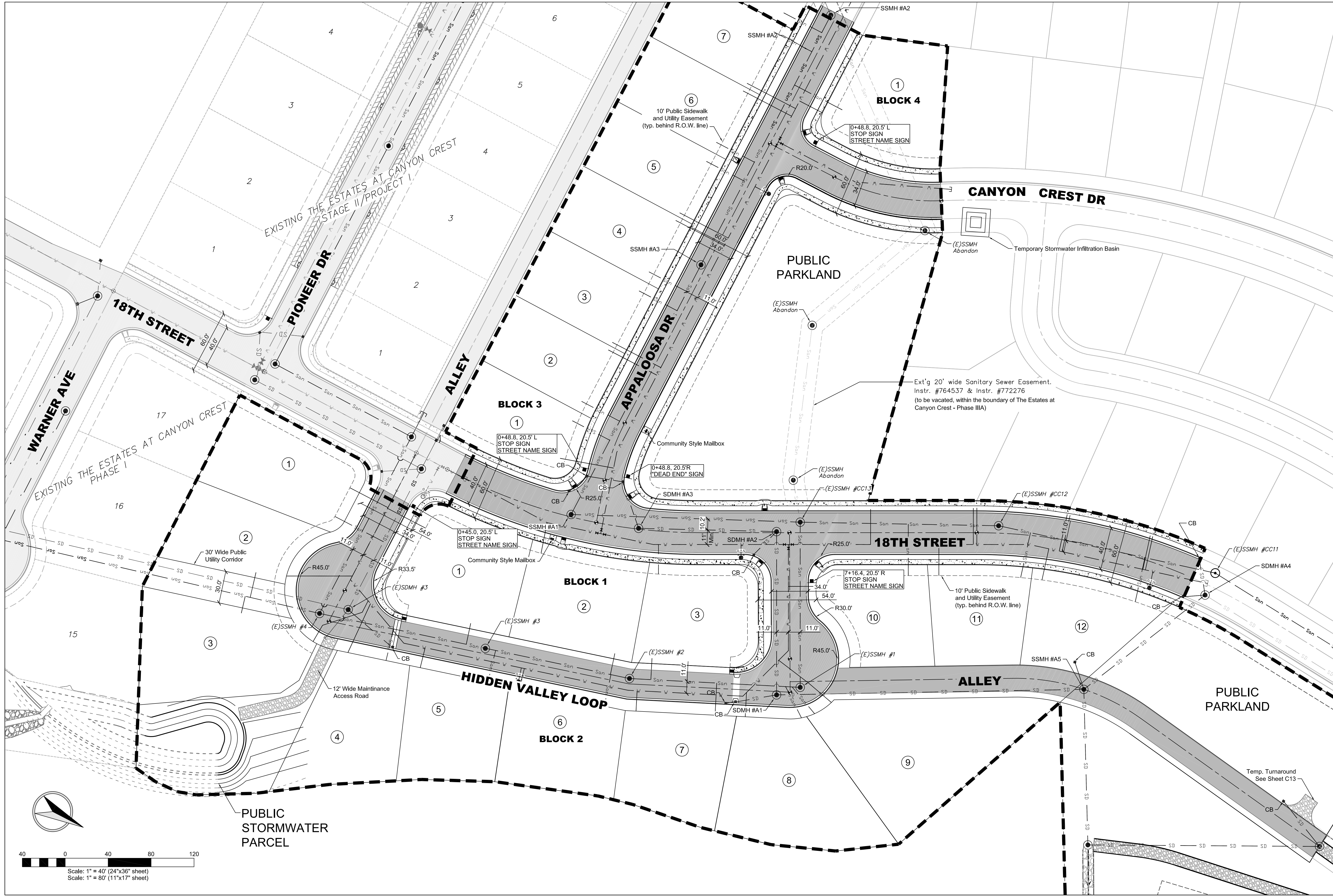
HAMMOND ENGINEERING & DEVELOPMENT CO.

528 BRYDEN AVENUE LEWISTON, IDAHO 83501

(208) 750-5422

SHEET

C3



REVISION		DATE	DESCRIPTION	CHECKED	APPROVED
REV	DATE				
LTR					
B	03-22-17		Revised as per city review comments dated 4-05-2017		
AB	03-22-17		As-built data		

SCALE	SHEET SIZE	D	CHECKED BY	JSH	DATE	03-03-17	JOE	1650	SHEET	C4	DRAWING #	1650-C4
1"=40'			MEE									

THE ESTATES AT CANYON CREST - PHASE III/ PROJECT IIIA

SITE DEVELOPMENT PLAN

RPL DEVELOPMENT CO., INC.

LEWISTON, IDAHO

HEDCO

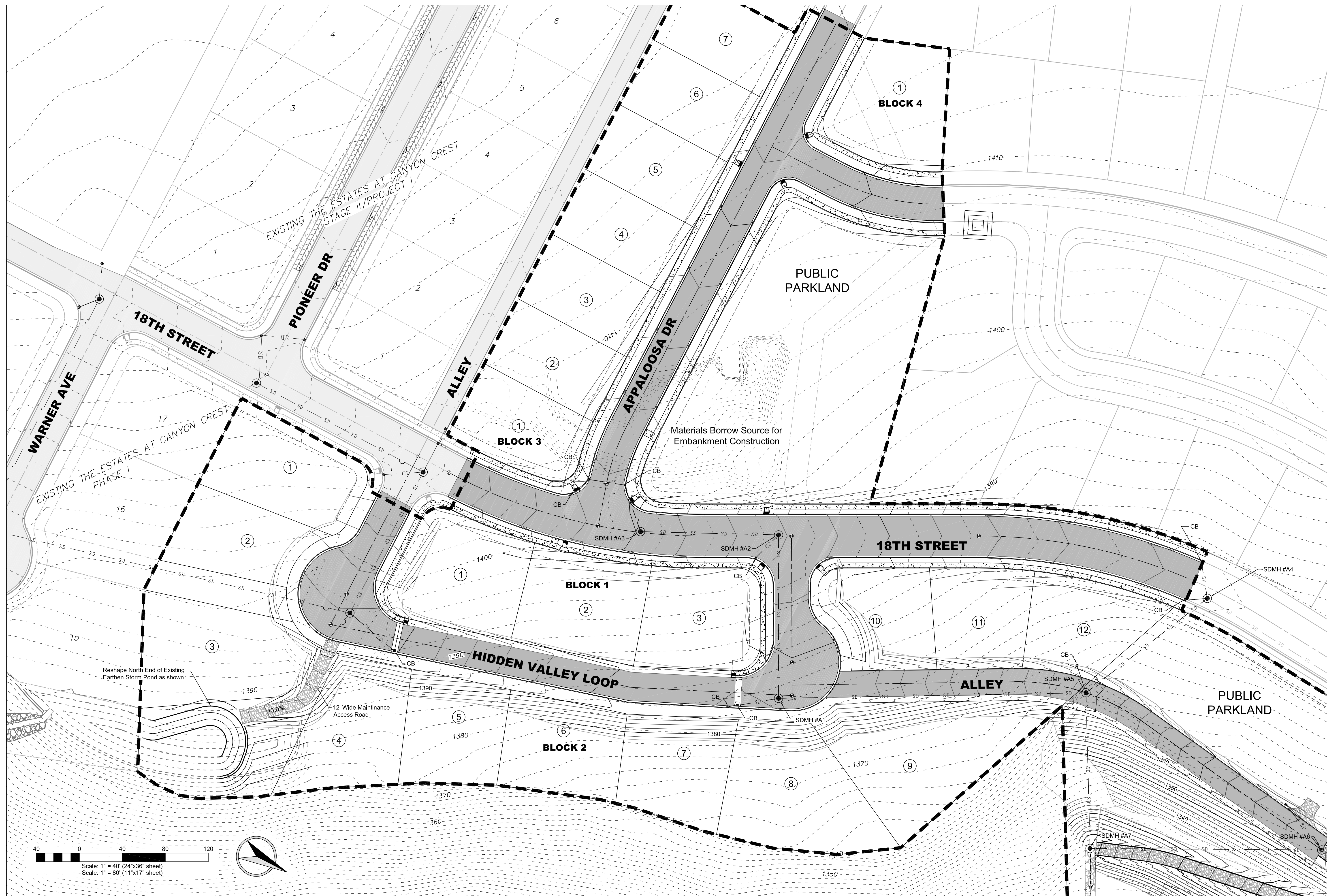
HAMMOND ENGINEERING & DEVELOPMENT CO.

528 BRYDEN AVENUE LEWISTON, IDAHO 83501

(208) 750-5422

ENGINEER	LAND SURVEYOR	DATE OF EXPIRATION
REGISTERED	REGISTERED	
#2102	#2102	
DATE OF EXPIRATION	DATE OF EXPIRATION	
3/31/17	3/31/17	

SHEET C4





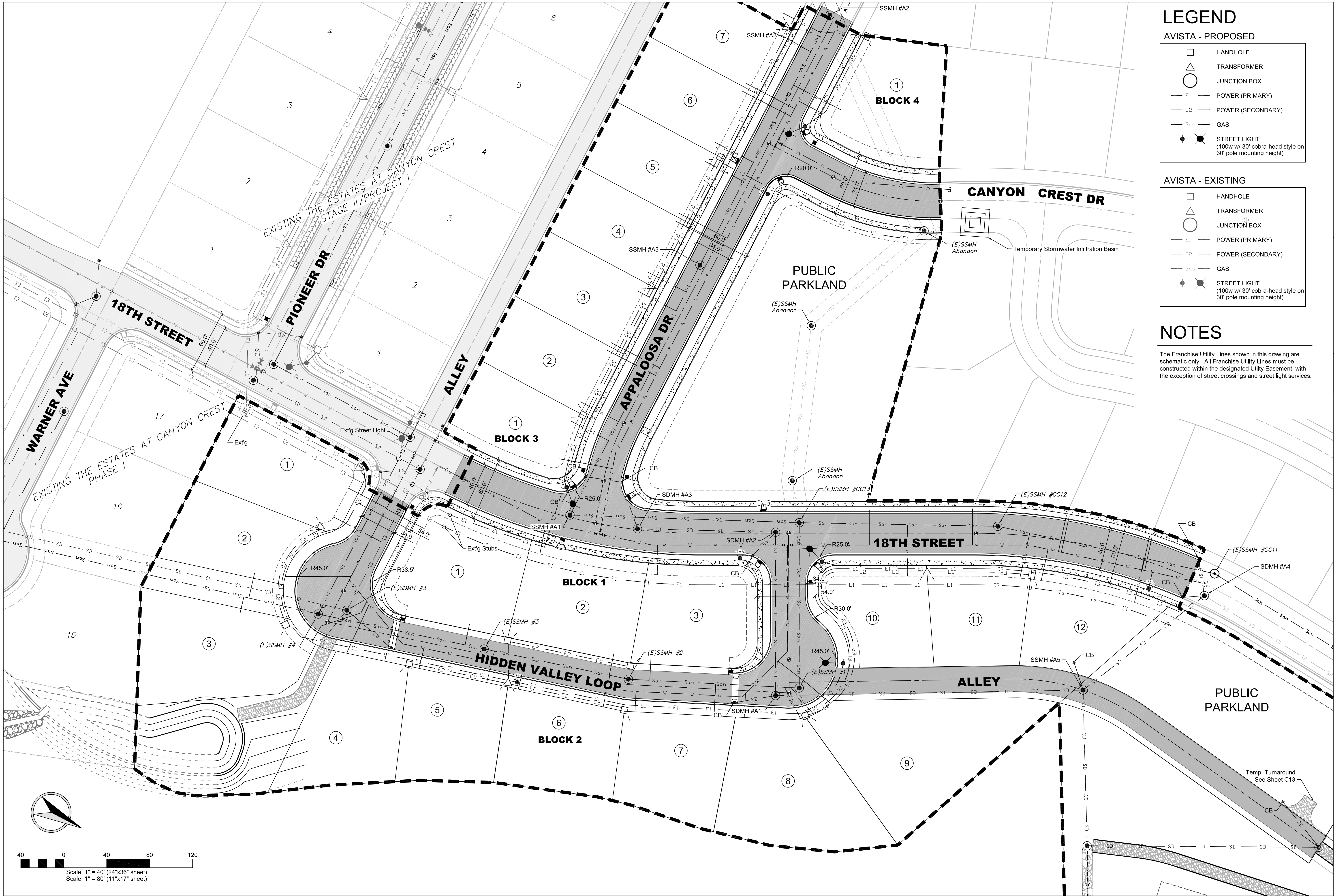
THE ESTATES AT CANYON CREST - PHASE III/ PROJECT IIIA
SITE GRADING PLAN
RPL DEVELOPMENT CO., INC.
LEWISTON, IDAHO

SCALE		SHEET SIZE		REVISION	
1"=40'	D	REV	DATE	DESCRIPTION	CHECKED
DRAWN BY MEE	JSH	B	05-22-17	Revised as per city review comments dated 4-25-2017	APPRO.
DATE 03-03-17	JOB # 1650	AB	10-30-17	As-built data	
SHEET	C5				
DRAWING #	1650-C5				

HAMMOND ENGINEERING & DEVELOPMENT CO.
 528 BRYDEN AVENUE LEWISTON, IDAHO 83501
 (208) 750-5422

REGISTERED
 ENGINEER - L & S
 #2102
 STATE OF
 IDAHO

DATE OF
 EXPIRATION
 12/31/17



LEGEND

AVISTA - PROPOSED

- HANDHOLE
- TRANSFORMER
- JUNCTION BOX
- E1 POWER (PRIMARY)
- E2 POWER (SECONDARY)
- GAS
- STREET LIGHT (100w w/ 30' cobra-head style on 30' pole mounting height)

AVISTA - EXISTING

- HANDHOLE
- TRANSFORMER
- JUNCTION BOX
- E1 POWER (PRIMARY)
- E2 POWER (SECONDARY)
- GAS
- STREET LIGHT (100w w/ 30' cobra-head style on 30' pole mounting height)

NOTES

The Franchise Utility Lines shown in this drawing are schematic only. All Franchise Utility Lines must be constructed within the designated Utility Easement, with the exception of street crossings and street light services.

REVISION		DESCRIPTION	CHECKED	APPROVED
REV	DATE	DESCRIPTION	CHECKED	APPROVED
1	10-30-17	As-built data		

REGISTERED PROFESSIONAL ENGINEER
#2102
DATE OF EXPIRATION 3/31/17

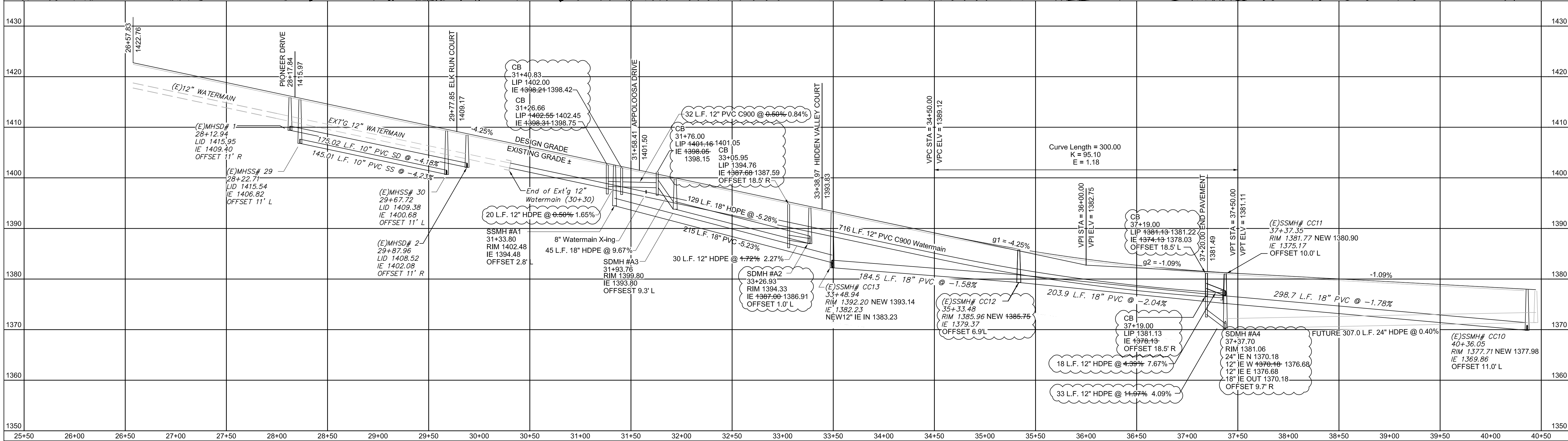
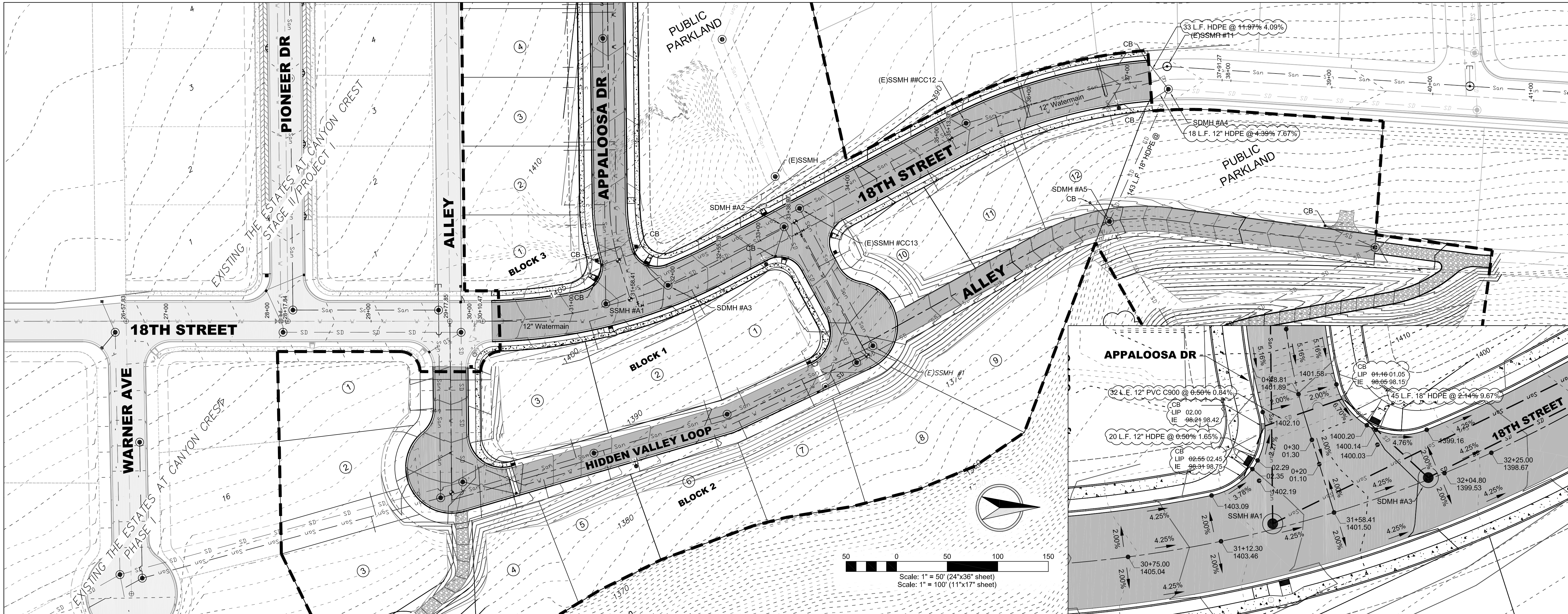
SHEET SIZE	D	CHECKED BY	DATE	SHEET	DRAWING #
11"x17"	JSH	JSH	JUN 1650	C6	1650-C6

THE ESTATES AT CANYON CREST - PHASE III/ PROJECT IIIA
FRANCHISE UTILITIES PLAN
RPL DEVELOPMENT CO., INC.
LEWISTON, IDAHO

HEDCO

HAMMOND ENGINEERING & DEVELOPMENT CO.
528 BRYDEN AVENUE LEWISTON, IDAHO 83501
(208) 750-5422

SHEET **C6**



REVISION		DESCRIPTION		CHECKED		APPROVED	
REV	DATE	DATE	DESCRIPTION	DATE	DESCRIPTION	DATE	DESCRIPTION
A	06-12-17		Remove Sanitary Interceptor Sewer				
B	06-22-17		Revised as per city review comments dated 4-05-2017				
AB	03-24-17		As-built data				

ENGINEER

REGISTERED

PROFESSIONAL

DATE OF EXPIRATION

#2102

DATE OF EXPIRATION

3/31/17

SCALE	1"=40'
DRAWN BY	ME
CHECKED BY	JSH
DATE	JUN 1650
SHEET	03-03-17
DRAWING #	1650-C8

HEDCO

HAMMOND ENGINEERING & DEVELOPMENT CO.
528 BRYDEN AVENUE LEWISTON, IDAHO 83501
(208) 750-5422

THE ESTATES AT CANYON CREST - PHASE III/ PROJECT IIIA

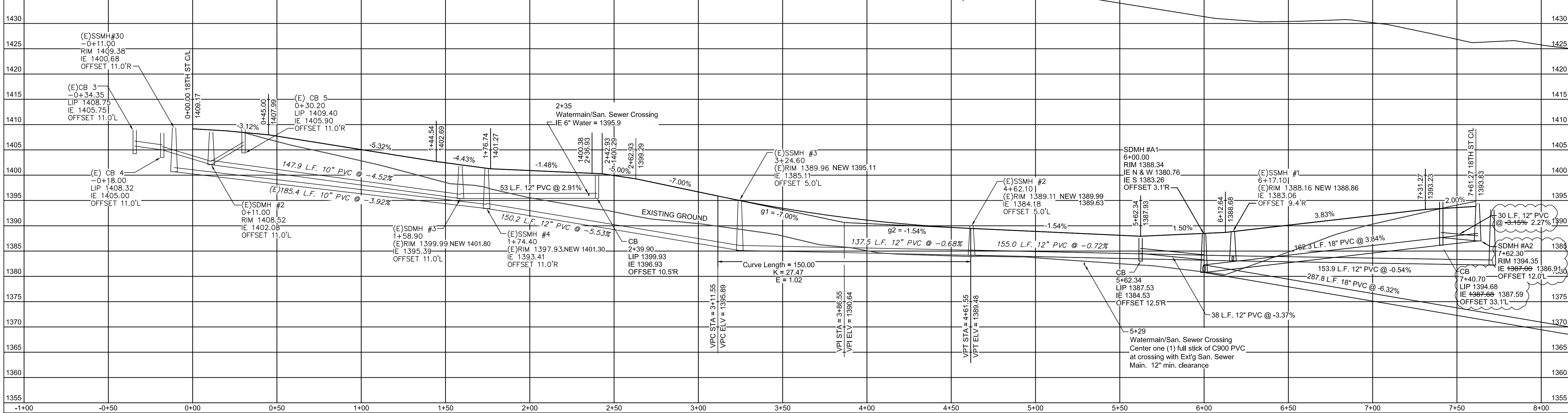
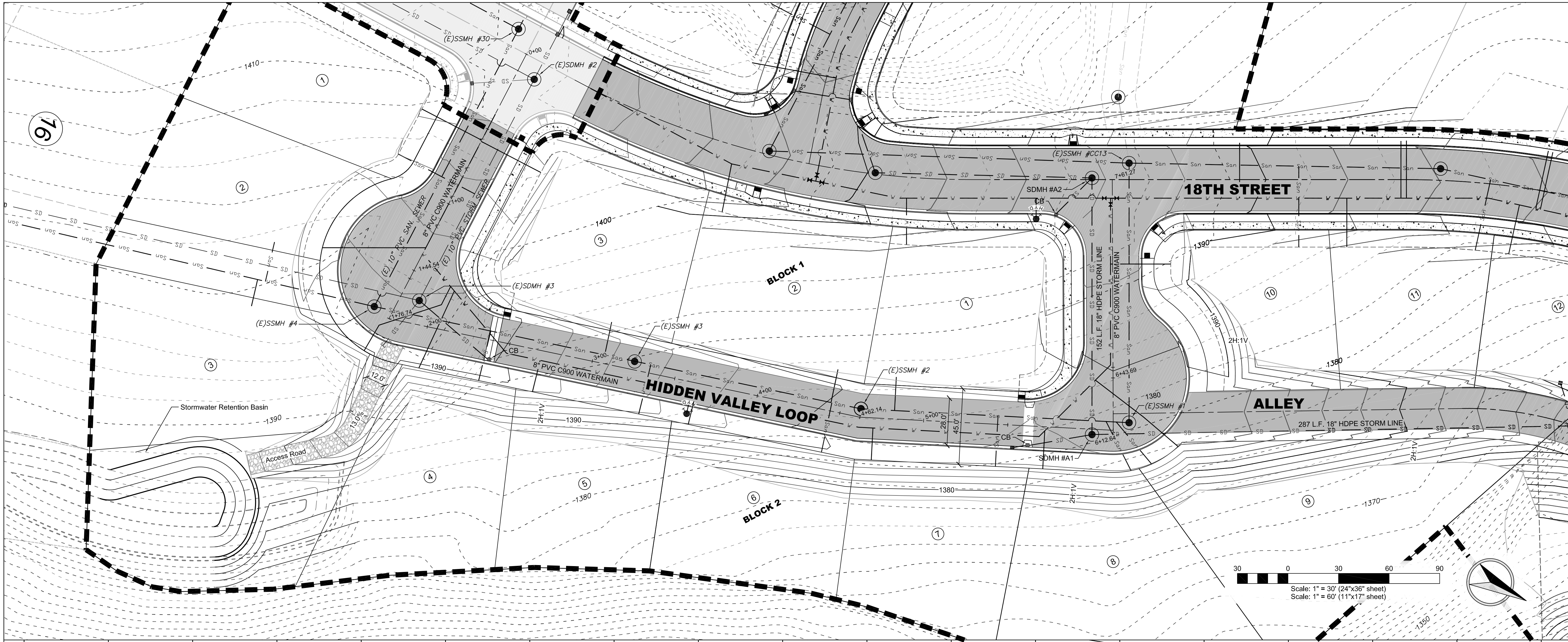
18TH STREET PLAN & PROFILE

RPL DEVELOPMENT CO., INC.

LEWISTON, IDAHO

SHEET

C8



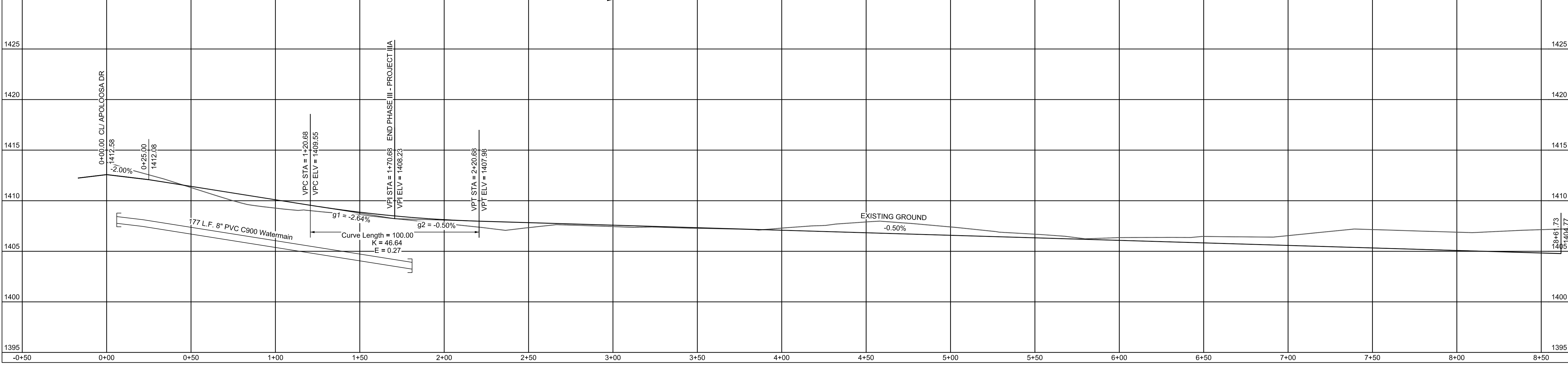
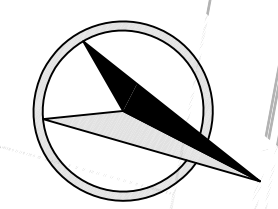
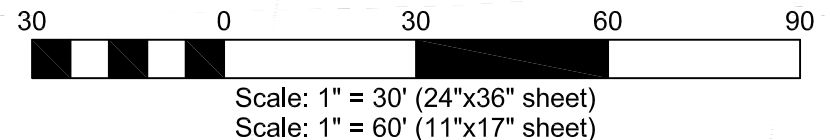
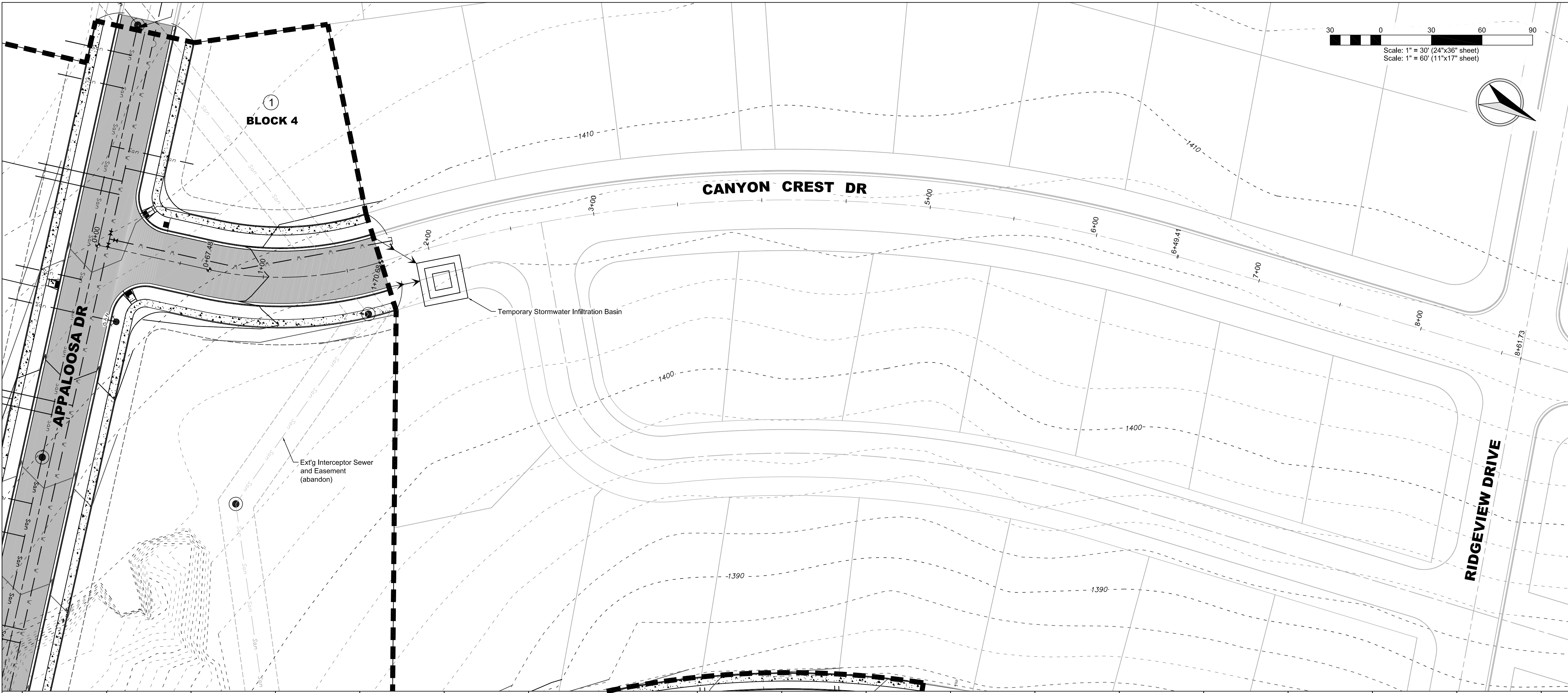
REVISION		DATE	DESCRIPTION	CHECKED	APPROVED
A	05-12-17		revised Hidden Valley Ct. & Ex Run Ct. to be one connected street		
B	06-22-17		Revised as per city review comments dated 4-05-2017		
AB	03-30-17		As-built data		

ENGINEER	LAND SURVEYOR	PROFESSIONAL SEAL	DATE OF EXPIRATION
DAVID J. SHAW	DAVID J. SHAW	#2102	03/31/17

SHEET	DRAWN BY	CHECKED BY	DATE	SCALE	DRAWING #
C9	MEET	JSH	JUN 1650	1"=30'	1650-C9

THE ESTATES AT CANYON CREST - PHASE III/ PROJECT IIIA
HIDDEN VALLEY LOOP PLAN & PROFILE
RPL DEVELOPMENT CO., INC.
LEWISTON, IDAHO

HEDCO
HAMMOND ENGINEERING & DEVELOPMENT CO.
528 BRYDEN AVENUE LEWISTON, IDAHO 83501
(208) 750-5422



REVISION		DATE	BY	CHECKED	APPROVED
NO.	DESCRIPTION				
1	As-built data	10-30-17	AB		

REGISTERED PROFESSIONAL ENGINEER
#2102
JAC SHAW
STATE OF IDAHO
3/3/17

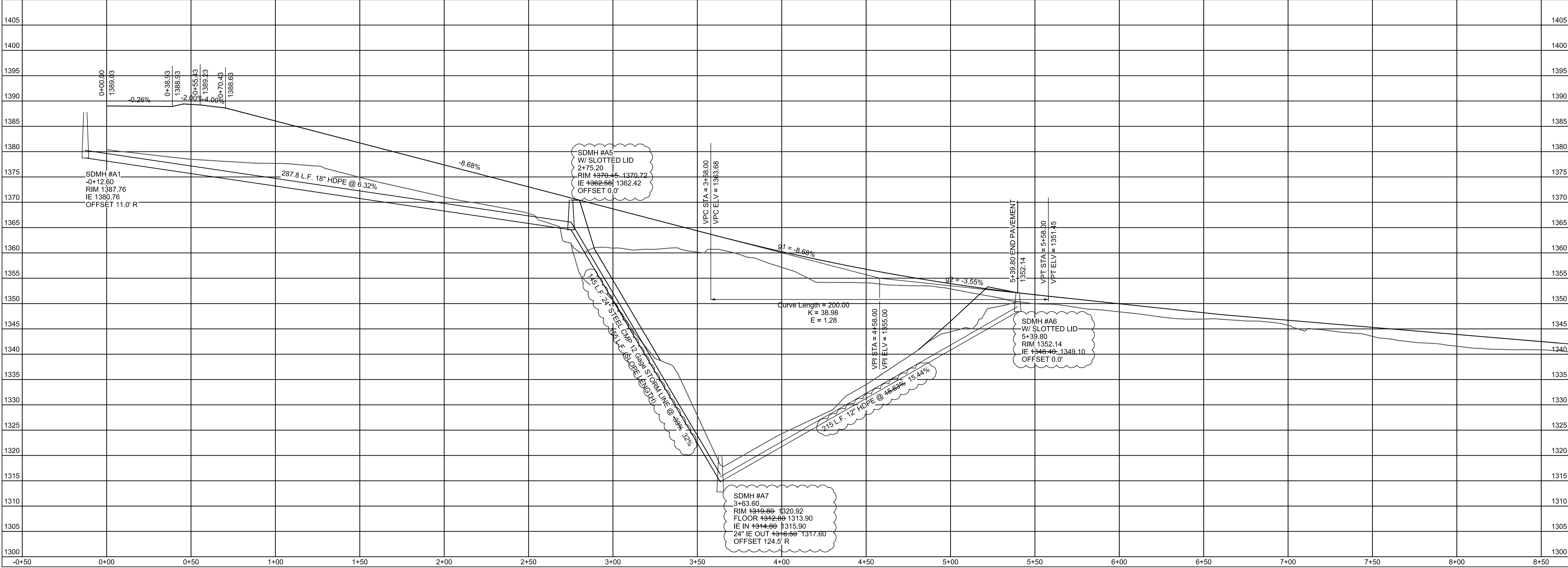
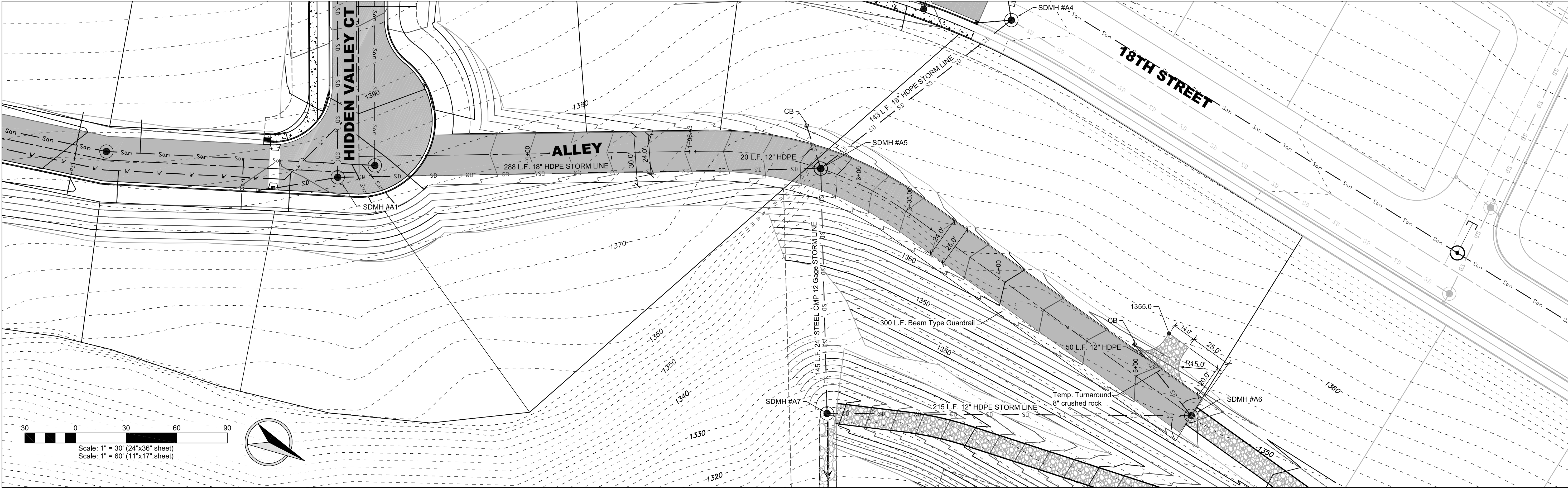
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1"=30'	D	MEE	JSH	03-03-17	C12	1650-C12

THE ESTATES AT CANYON CREST - PHASE III/ PROJECT IIIA
CANYON CREST DRIVE PLAN & PROFILE
RPL DEVELOPMENT CO., INC.
LEWISTON, IDAHO

HEDCO
HAMMOND ENGINEERING & DEVELOPMENT CO.
528 BRYDEN AVENUE LEWISTON, IDAHO 83501
(208) 730-5422

SHEET

C12



REVISION		DESCRIPTION	CHECKED	APPROVED
REV	DATE			
B	06-22-17	Revised SDM#A6		
C	06-26-17	Revised Pipe Material between SDM#A5 & SDM#A7		
A6	03-27-17	As-built data		

REGISTERED PROFESSIONAL ENGINEER AND SURVEYOR
#2102
DATE OF EXPIRATION 3/31/17
JAC SHAW

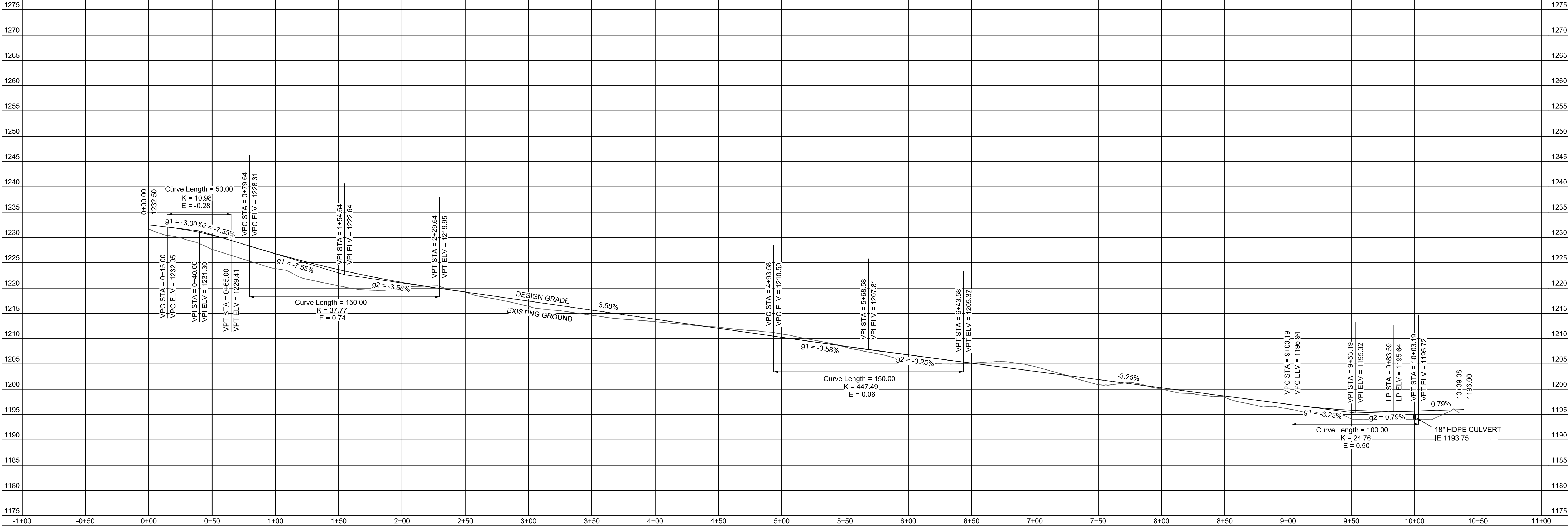
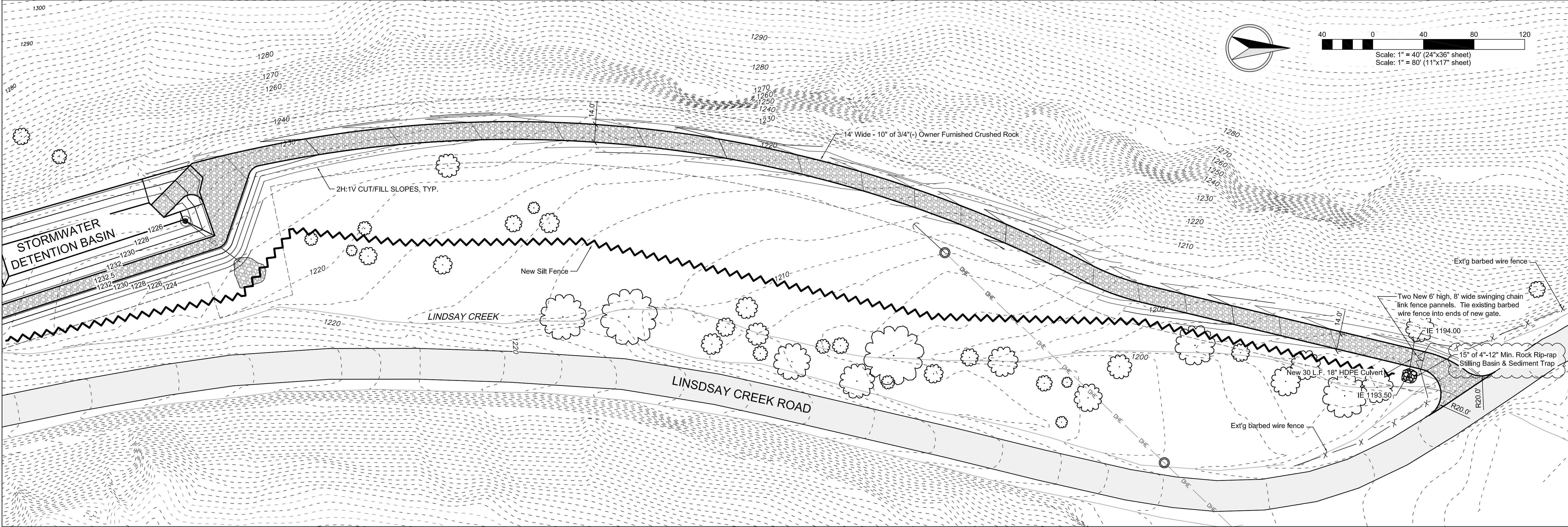
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DATE: 03-03-17
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HEDCO
HAMMOND ENGINEERING & DEVELOPMENT CO.
528 BRYDEN AVENUE LEWISTON, IDAHO 83501
(208) 750-5422

THE ESTATES AT CANYON CREST - PHASE III/ PROJECT IIIA
ALLEY PLAN & PROFILE
RPL DEVELOPMENT CO., INC.
LEWISTON, IDAHO

SHEET

C13



REVISION

REV	DATE	DESCRIPTION
B	06-22-17	Revised as per city review comments dated 4-05-2017
C	06-05-17	Rip-rap Stilling Basin
AB	03-24-17	As-built data

CHECKED

APPR.

ENGINEER

PROFESSIONAL

#2102

DATE OF EXPIRATION

3/31/17

SCALE

1"=40'

1"=80'

SHEET SIZE

D

C

CHECKED BY

JSH

JOE

1650

DRAWN BY

MEE

03-03-17

SHEET

C14

1650-C14

THE ESTATES AT CANYON CREST - PHASE III/ PROJECT IIIA

ACCESS ROAD PLAN & PROFILE

RPL DEVELOPMENT CO., INC.

LEWISTON, IDAHO

HEDCO

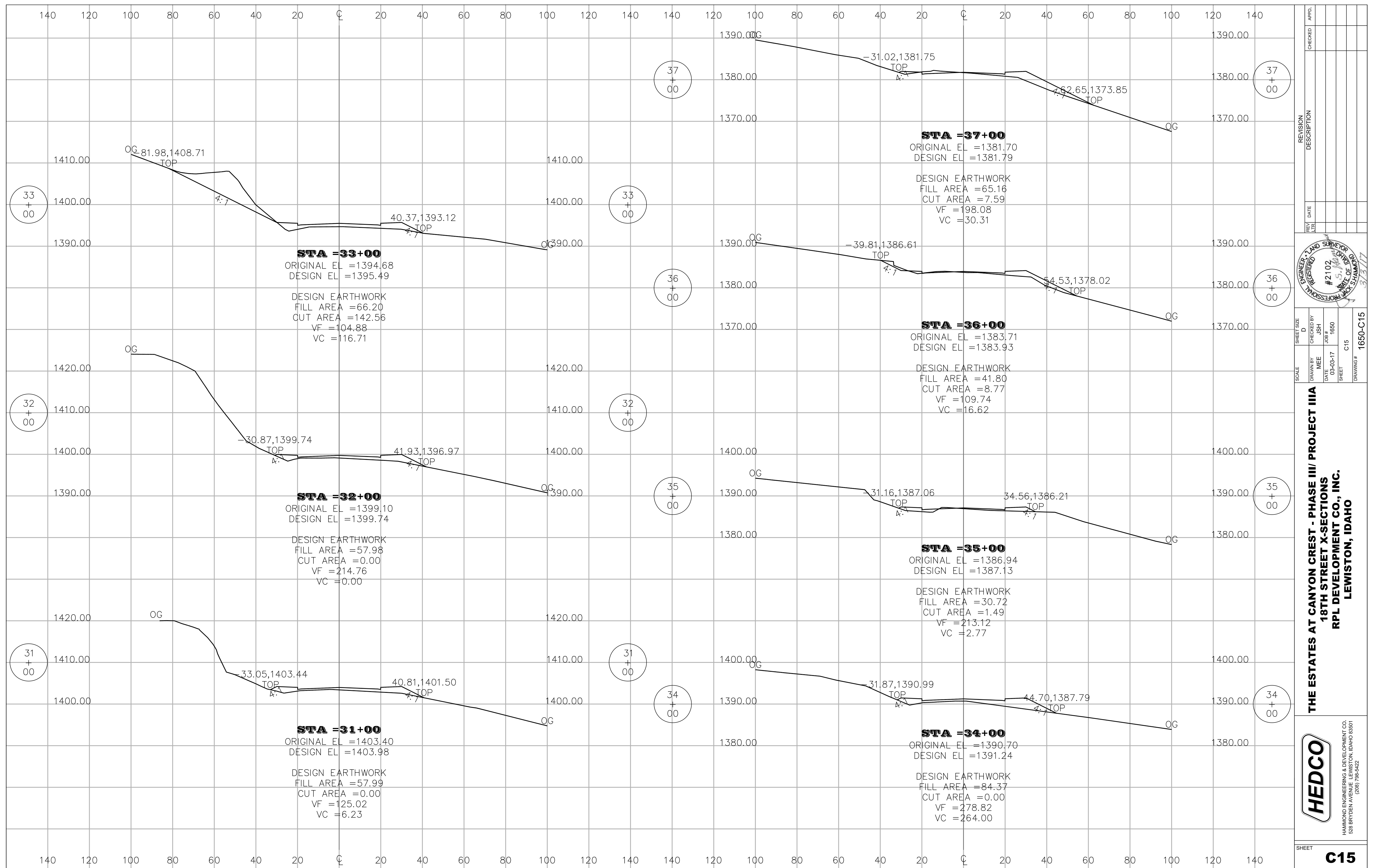
HAMMOND ENGINEERING & DEVELOPMENT CO.

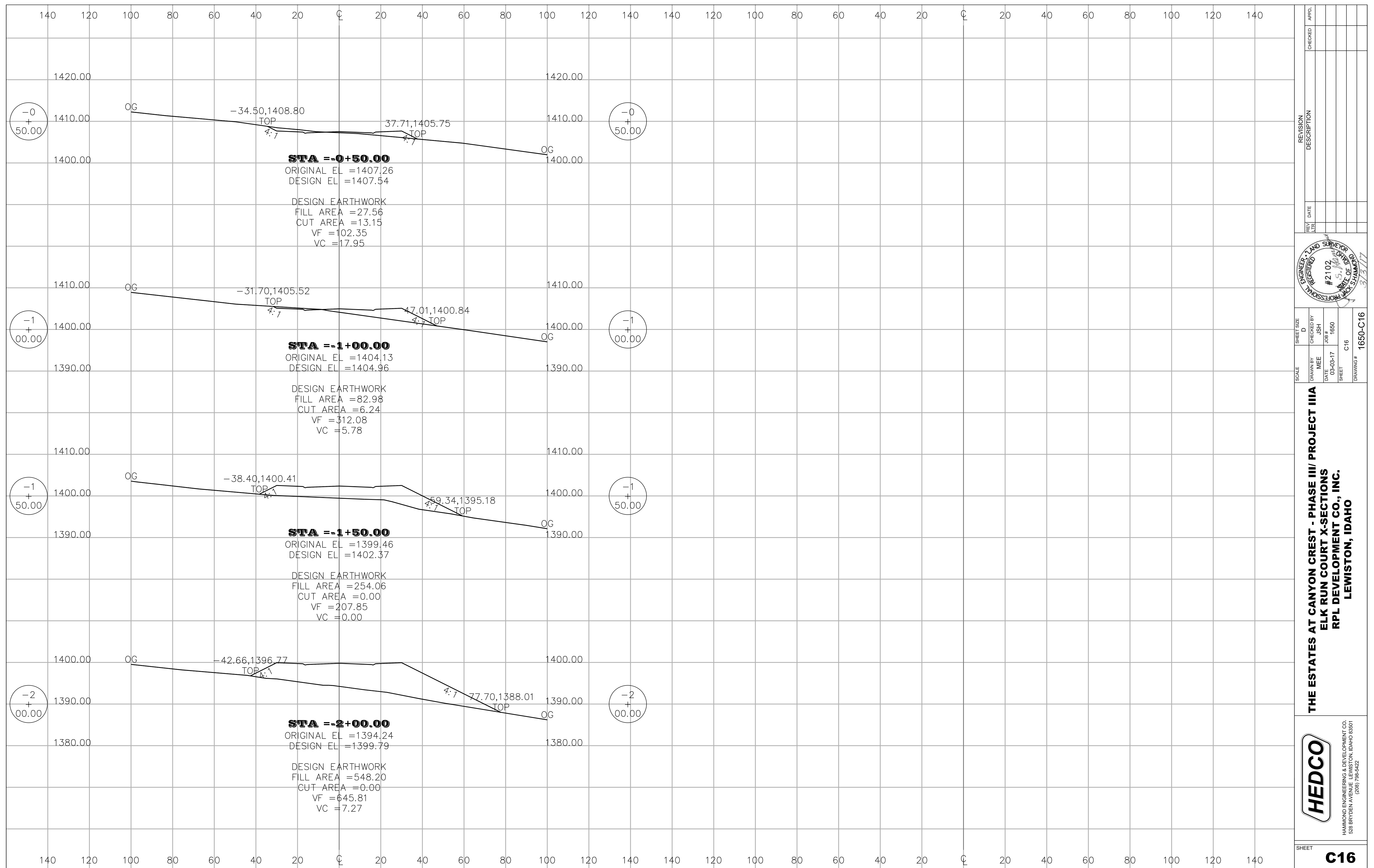
528 BRYDEN AVENUE LEWISTON, IDAHO 83501

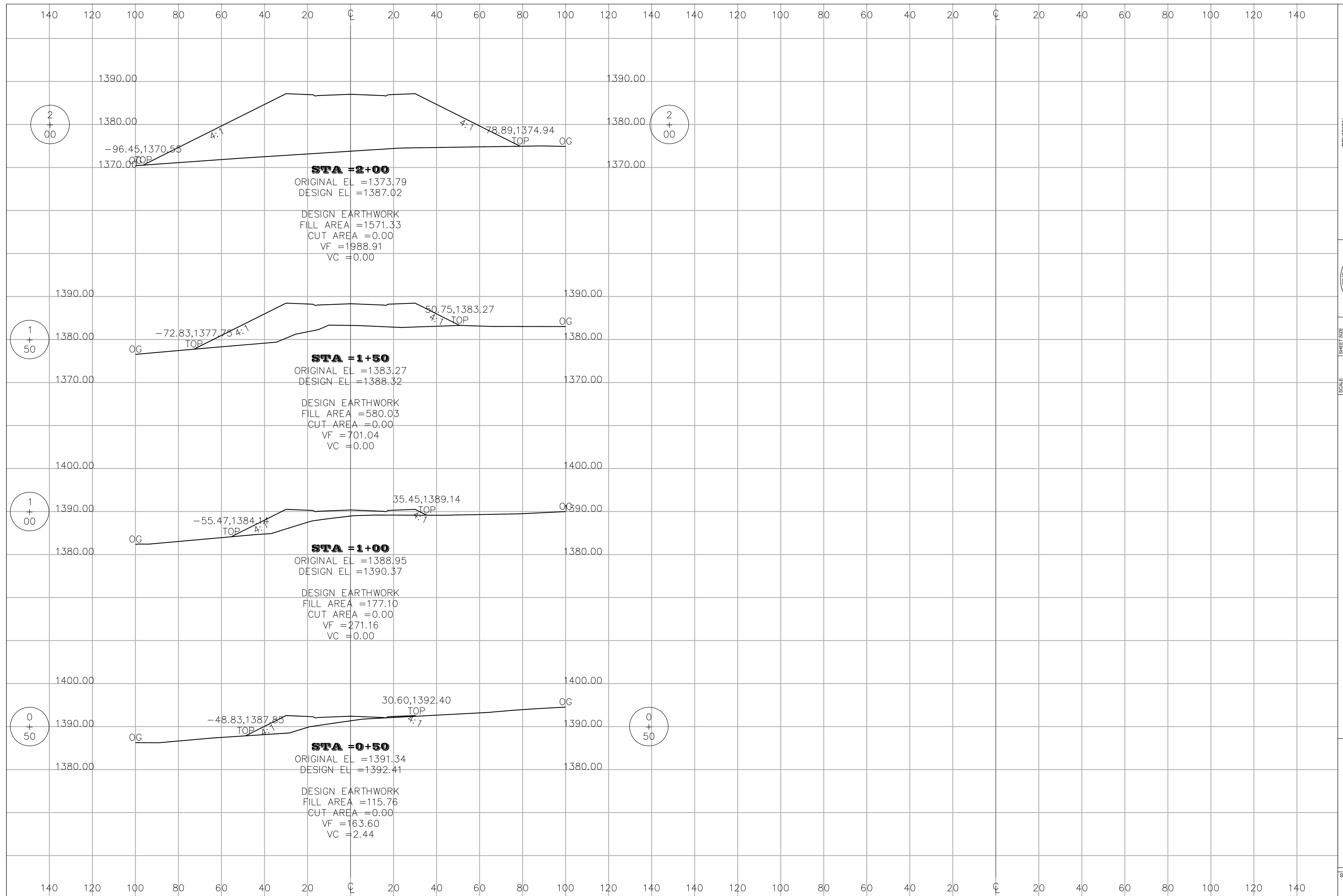
(208) 750-5422

SHEET

C14







THE ESTATES AT CANYON CREST - PHASE III/ PROJECT IIIA

HIDDEN VALLEY COURT X-SECTIONS

RPL DEVELOPMENT CO., INC.

LEWISTON, IDAHO

REVISION

DESCRIPTION

DATE

CHECKED

APPRO.

DRAWN BY: MEE

CHECKED BY: JSH

DATE: 05-03-17

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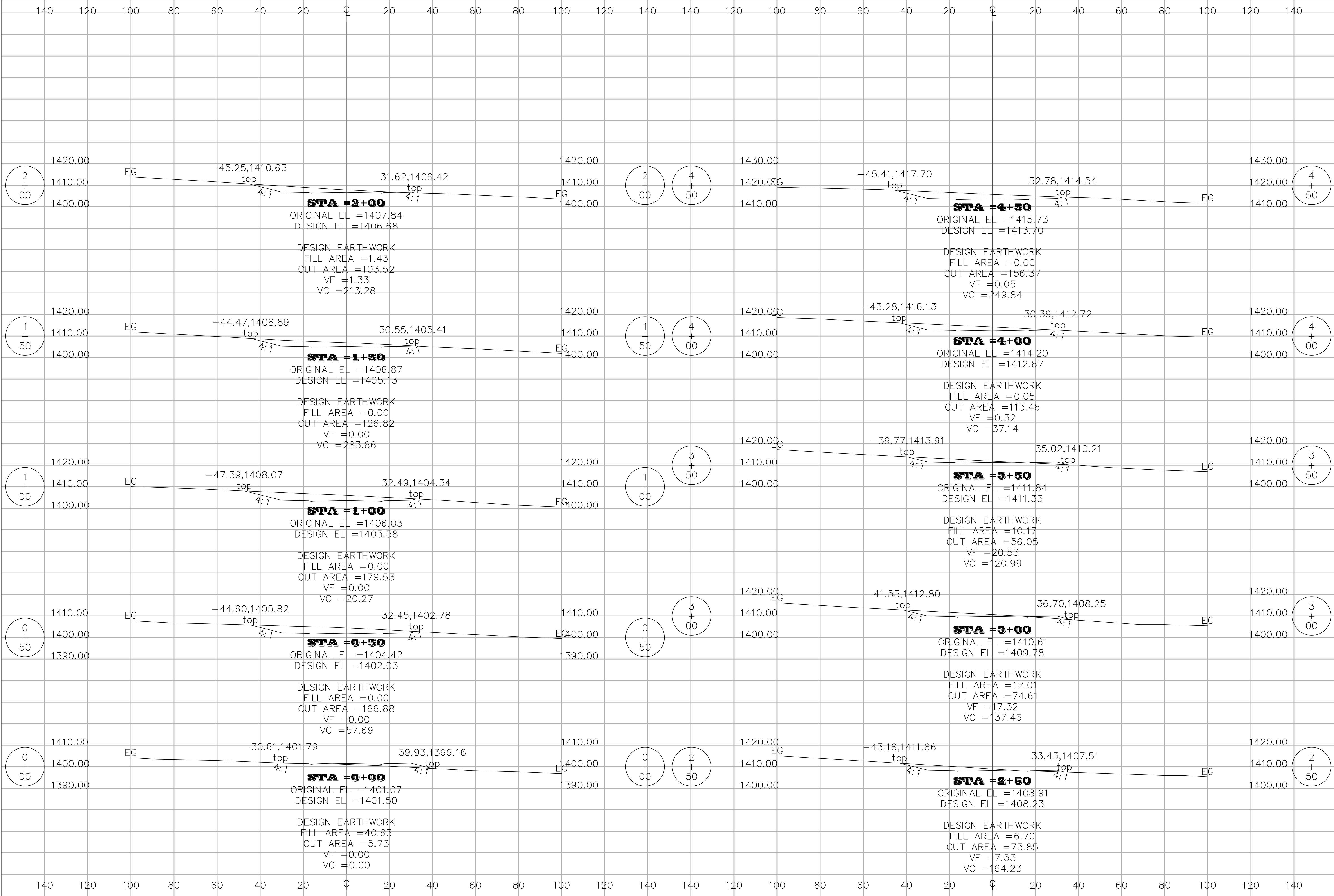
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528 BRYDEN AVENUE
LEWISTON, IDAHO 83501
(208) 798-5422



REVISION		CHECKED	APPR.
DESCRIPTION			
REV	DATE		
LTR			

REGISTERED PROFESSIONAL ENGINEER - LAND SURVEYOR
#2102
STATE OF IDAHO
J. M. SHAW
3/3/17

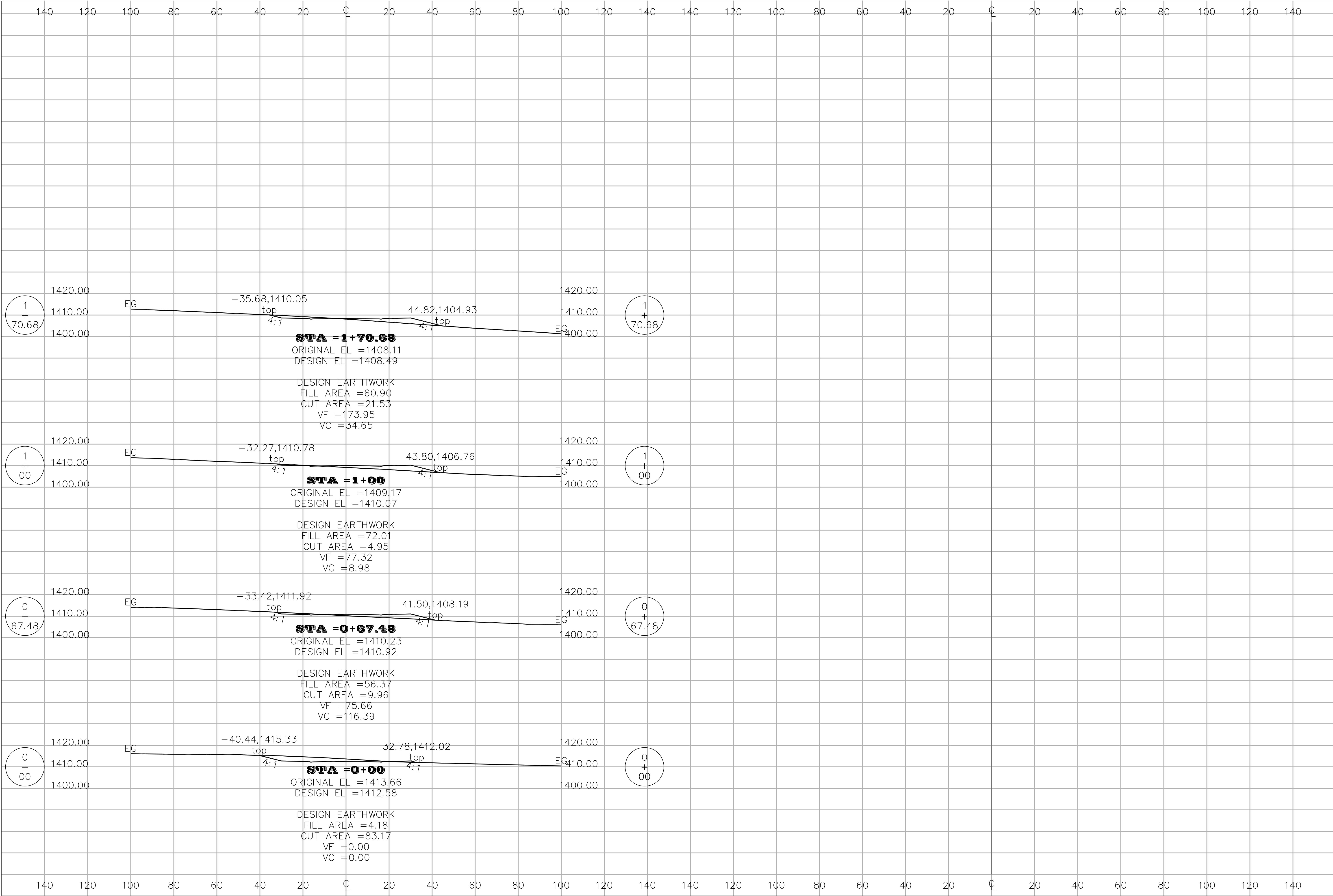
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DATE	JUL 1650	
03-03-17		
SHEET	C18	
DRAWING #		1650-C18

THE ESTATES AT CANYON CREST - PHASE III/ PROJECT IIIA
APPALOOSA DRIVE X-SECTIONS
RPL DEVELOPMENT CO., INC.
LEWISTON, IDAHO

HAMMOND ENGINEERING & DEVELOPMENT CO.
528 BRYDEN AVENUE LEWISTON, IDAHO 83501
(208) 750-5422

SHEET

C18



REVISION		DESCRIPTION	CHECKED	APPR.
REV	DATE			

REGISTERED PROFESSIONAL ENGINEER AND SURVEYOR
#2102
DATE OF EXPIRATION
3/3/17

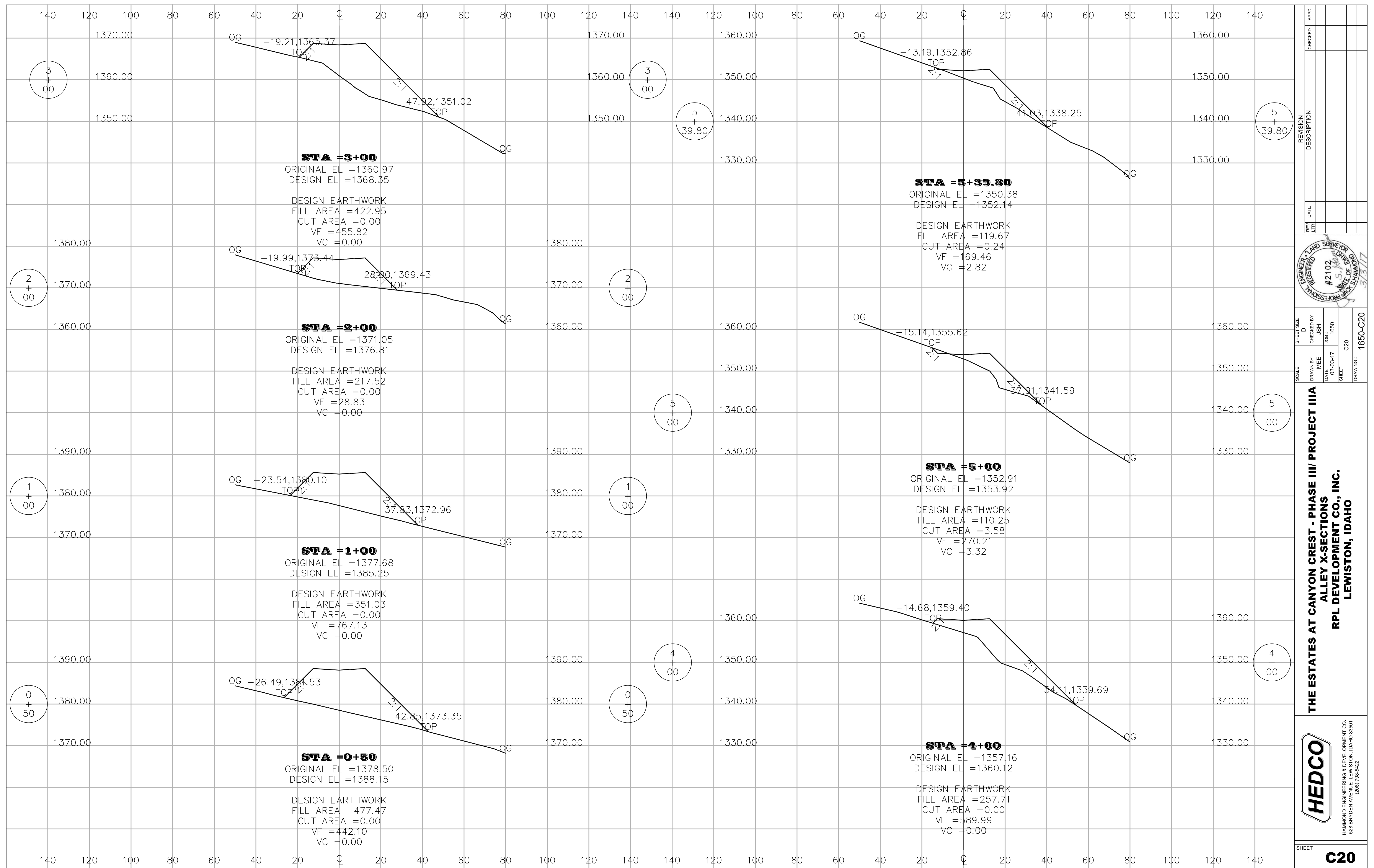
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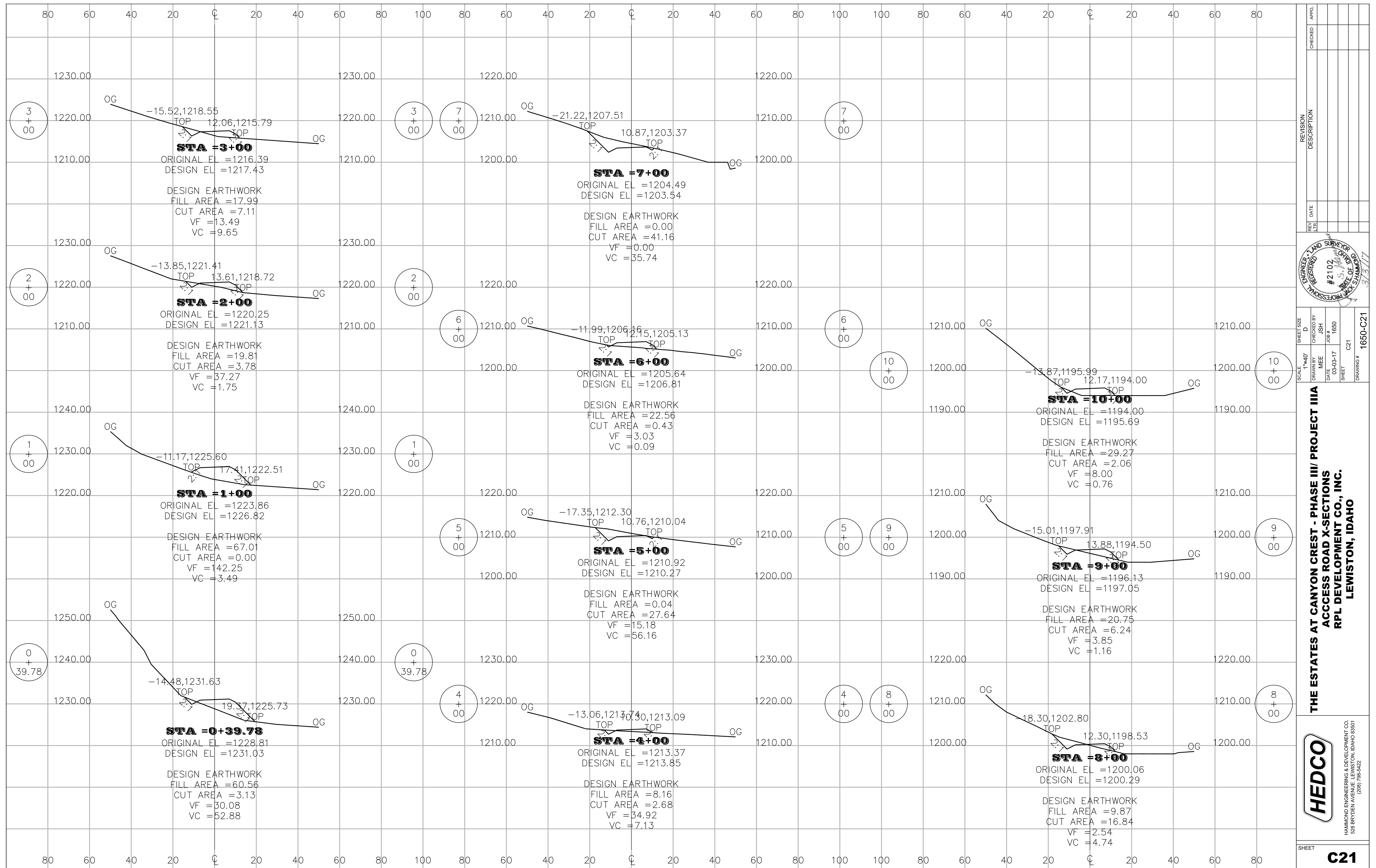
THE ESTATES AT CANYON CREST - PHASE III/ PROJECT IIIA
CANYON CREST DRIVE X-SECTIONS
RPL DEVELOPMENT CO., INC.
LEWISTON, IDAHO

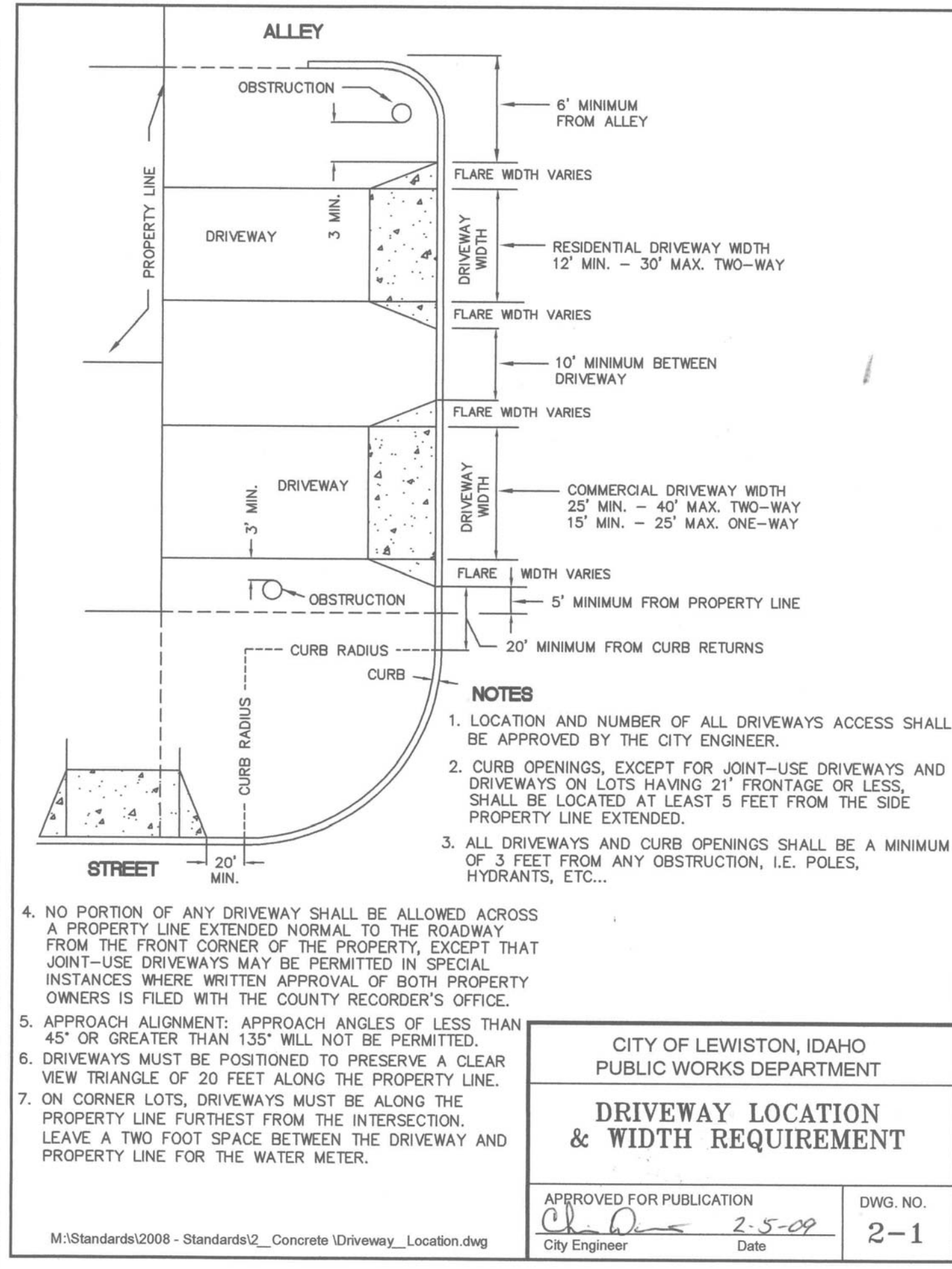
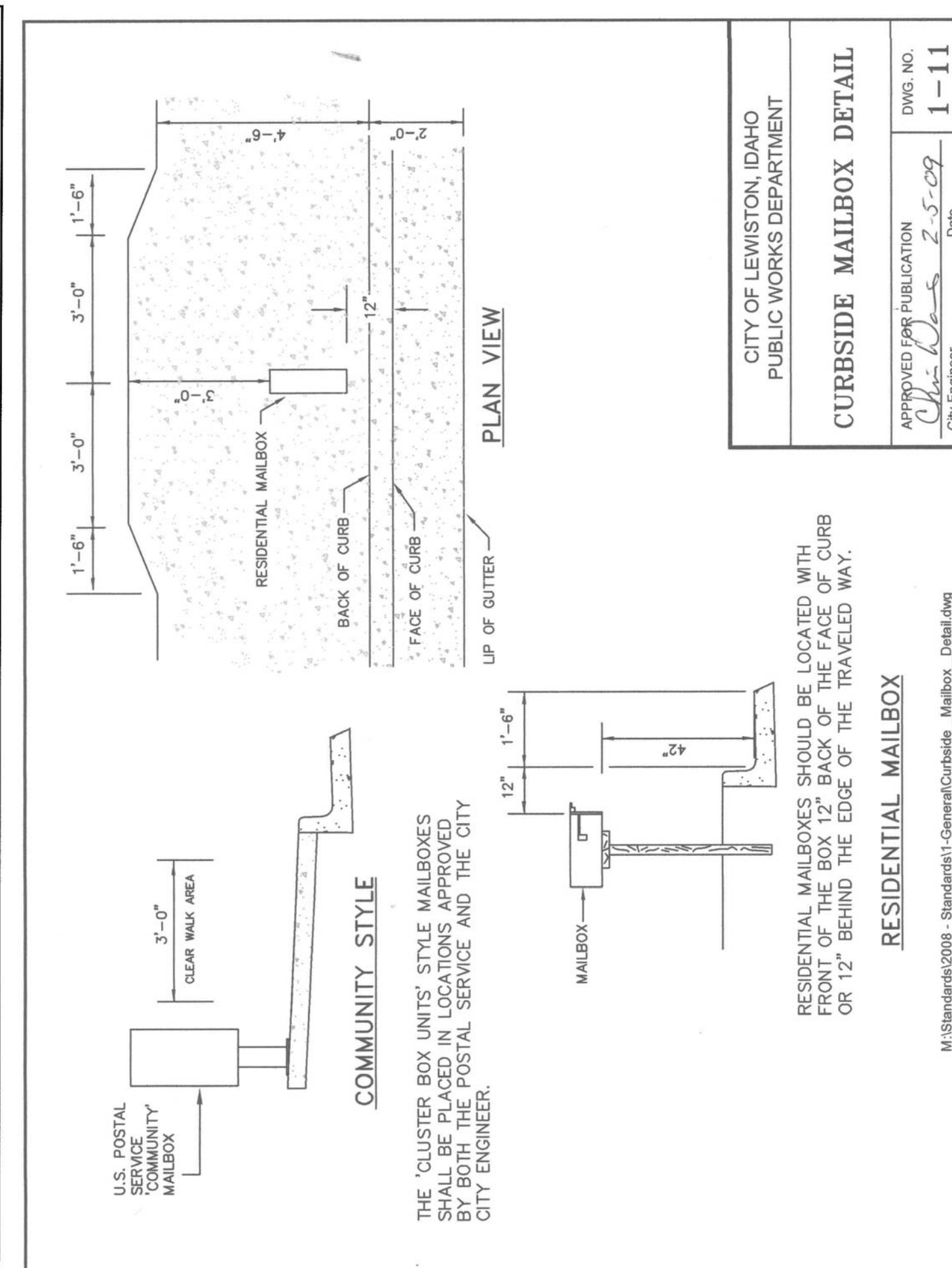
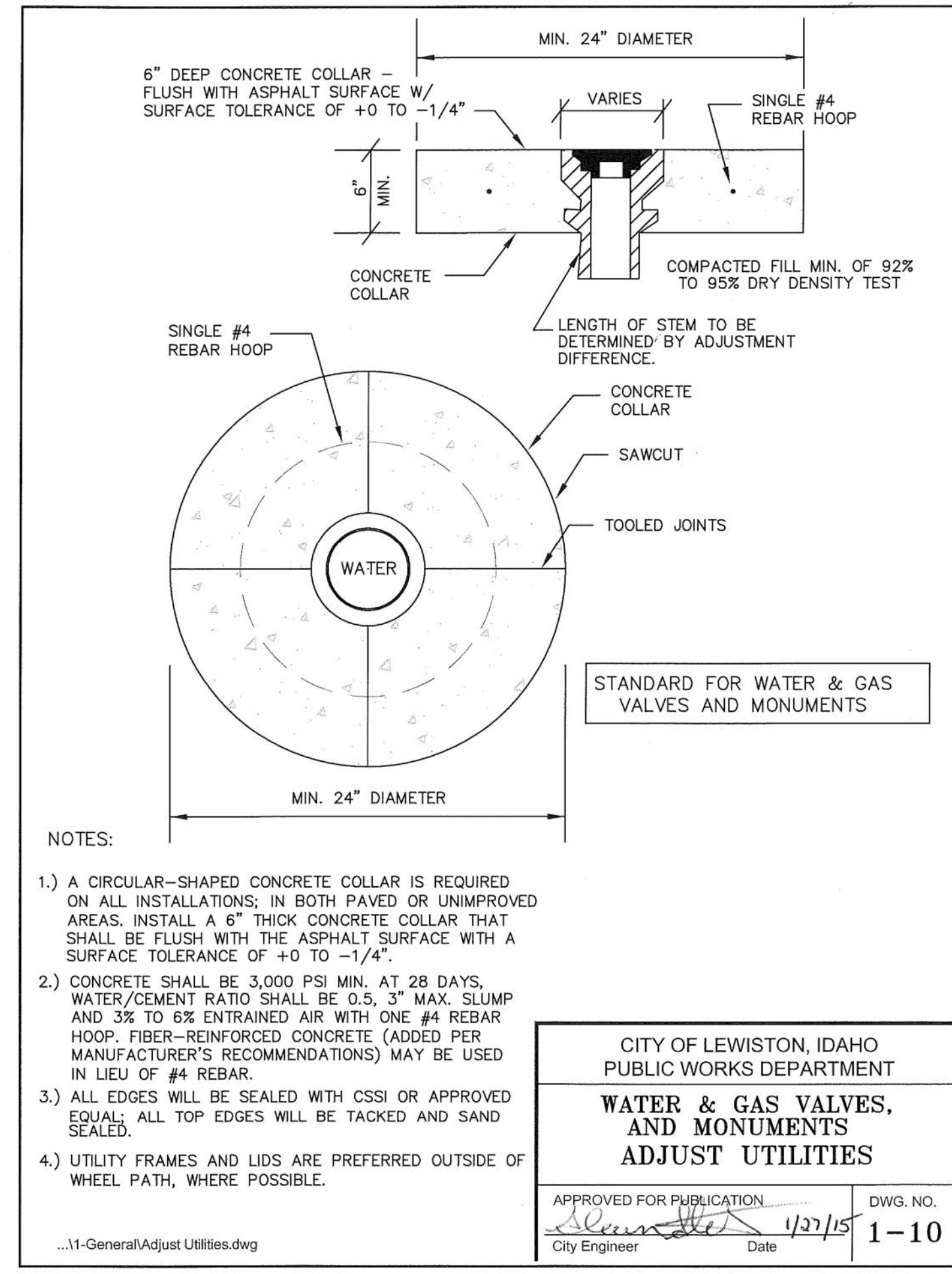
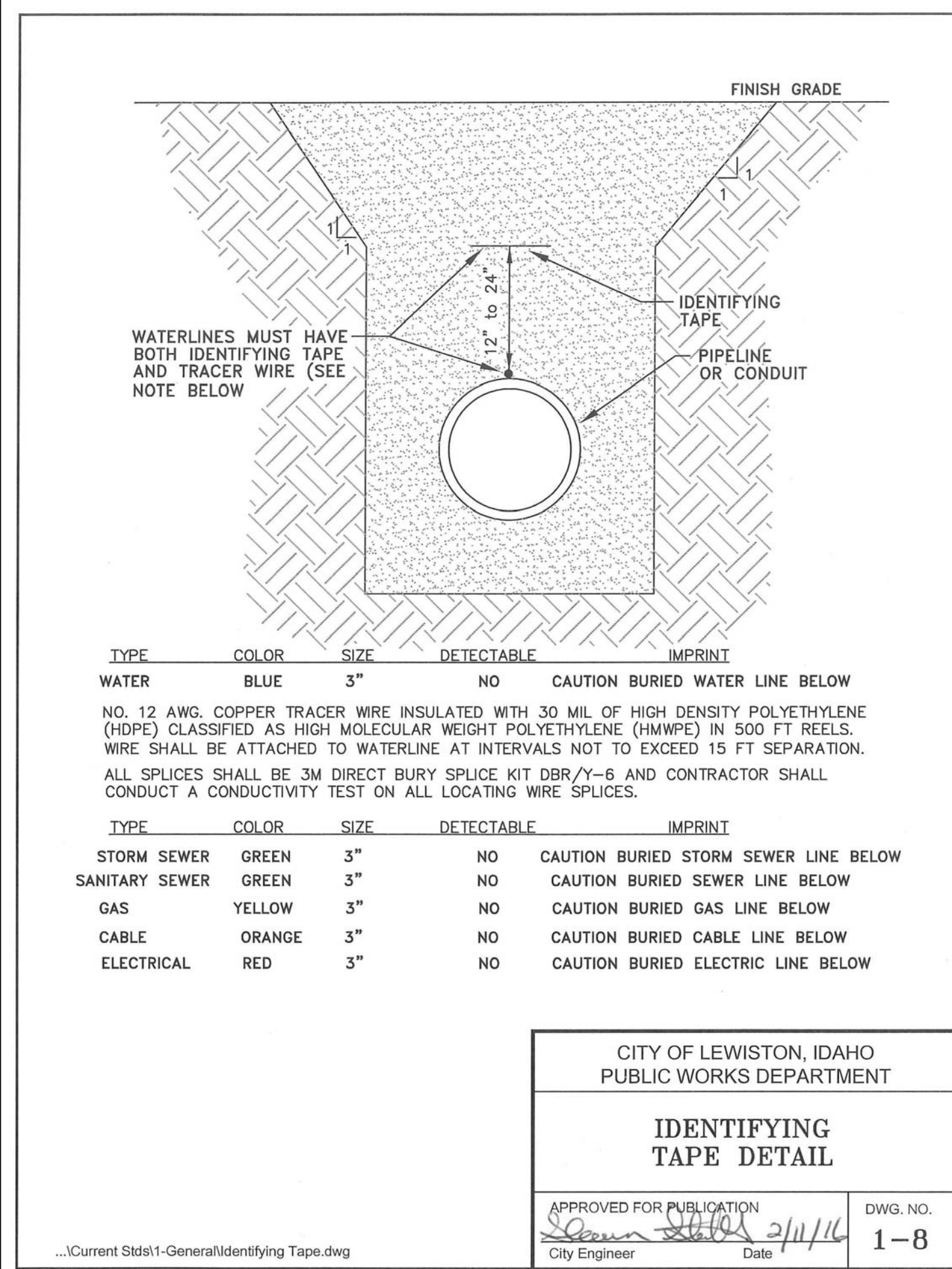
HEDCO

HAMMOND ENGINEERING & DEVELOPMENT CO.
528 BRYDEN AVENUE LEWISTON, IDAHO 83501
(208) 750-5422

SHEET **C19**







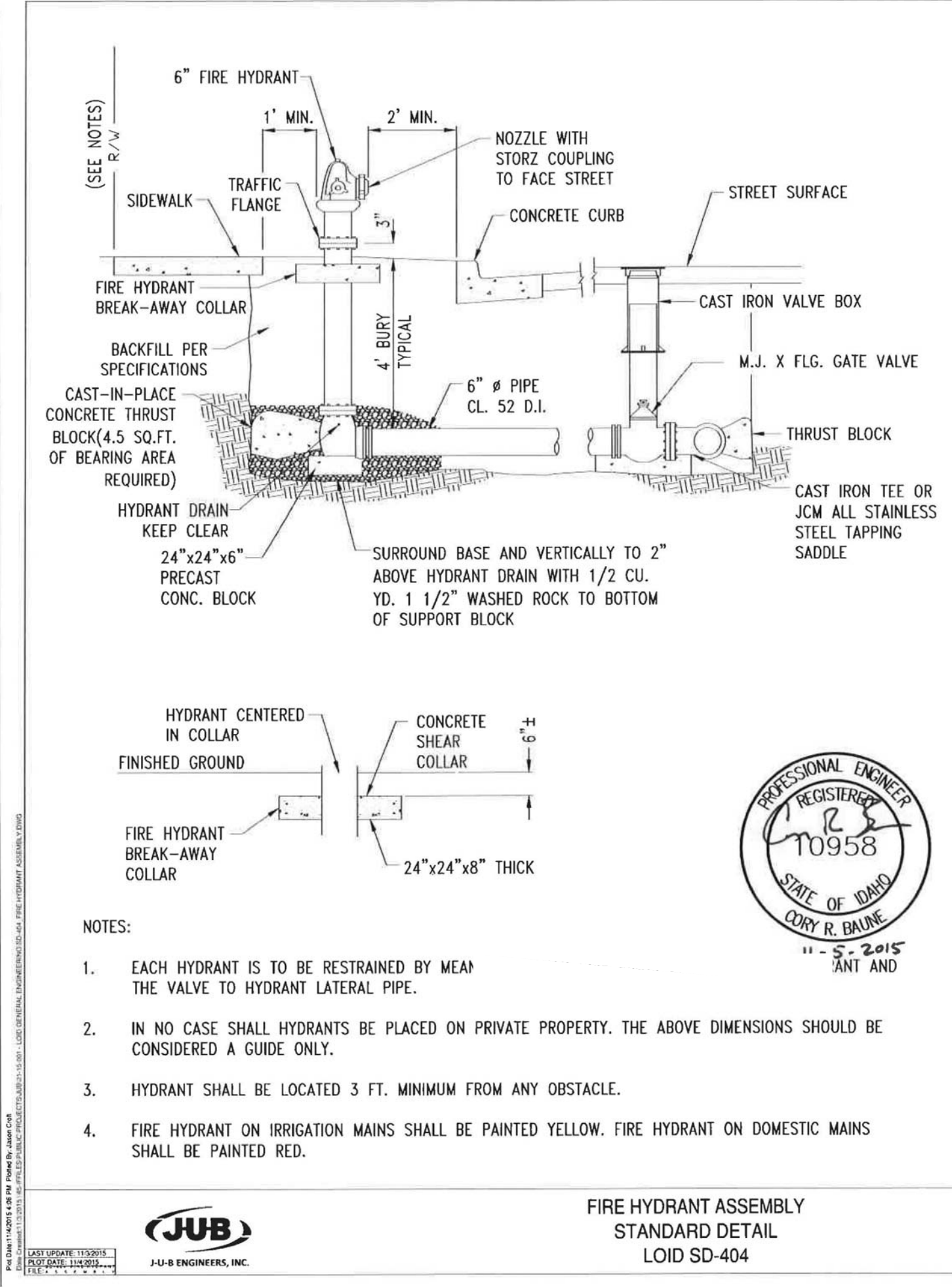
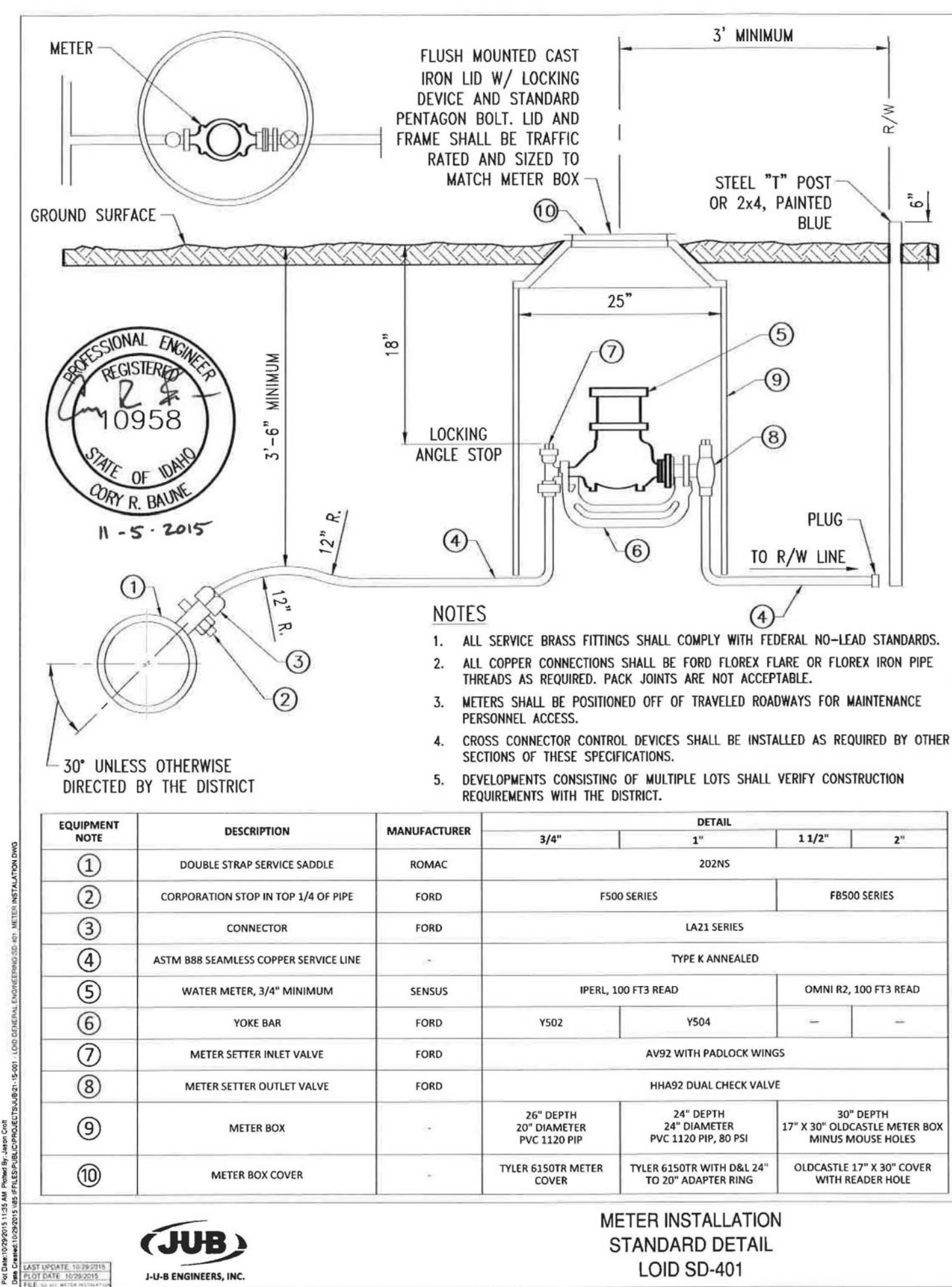
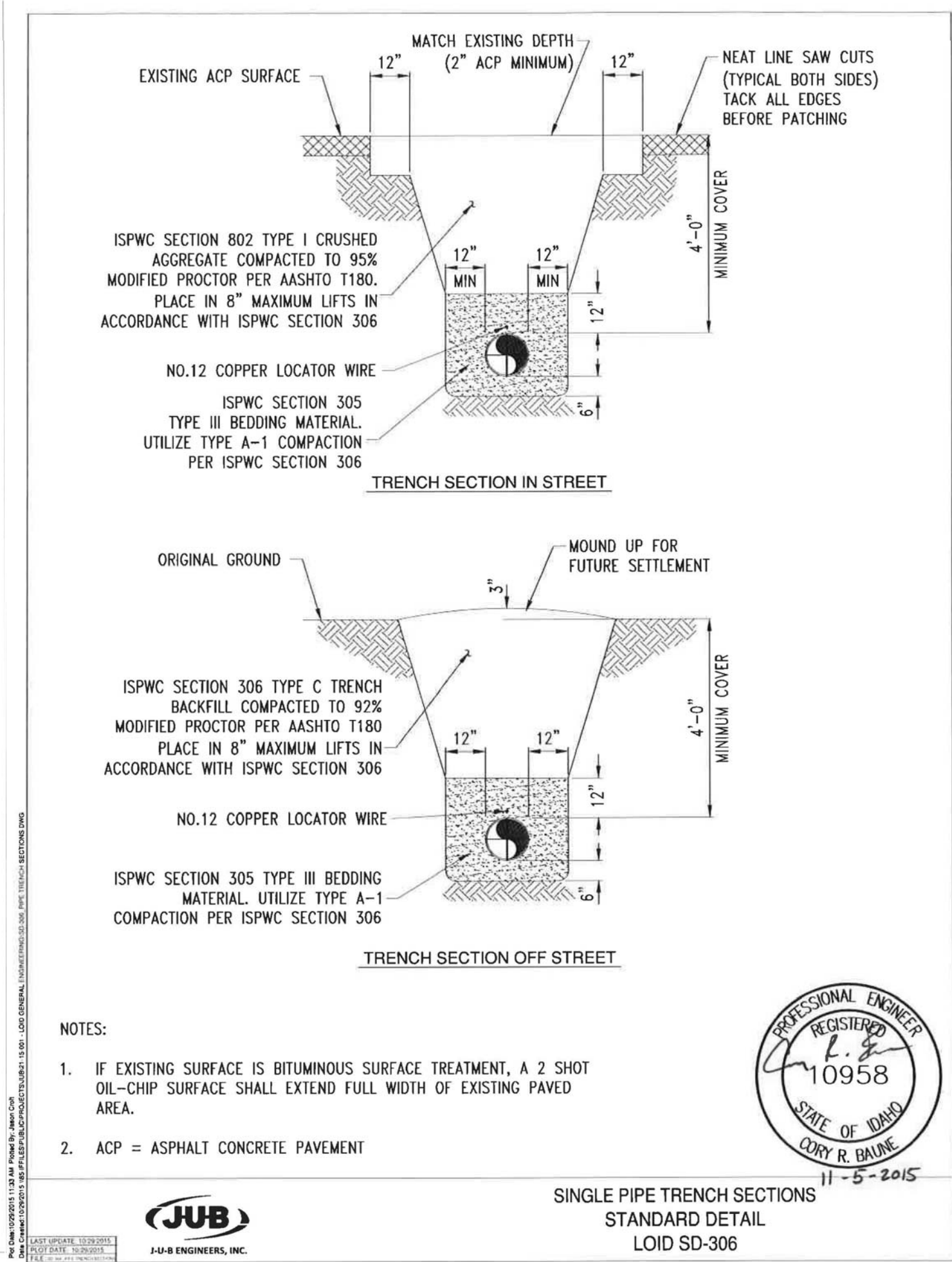
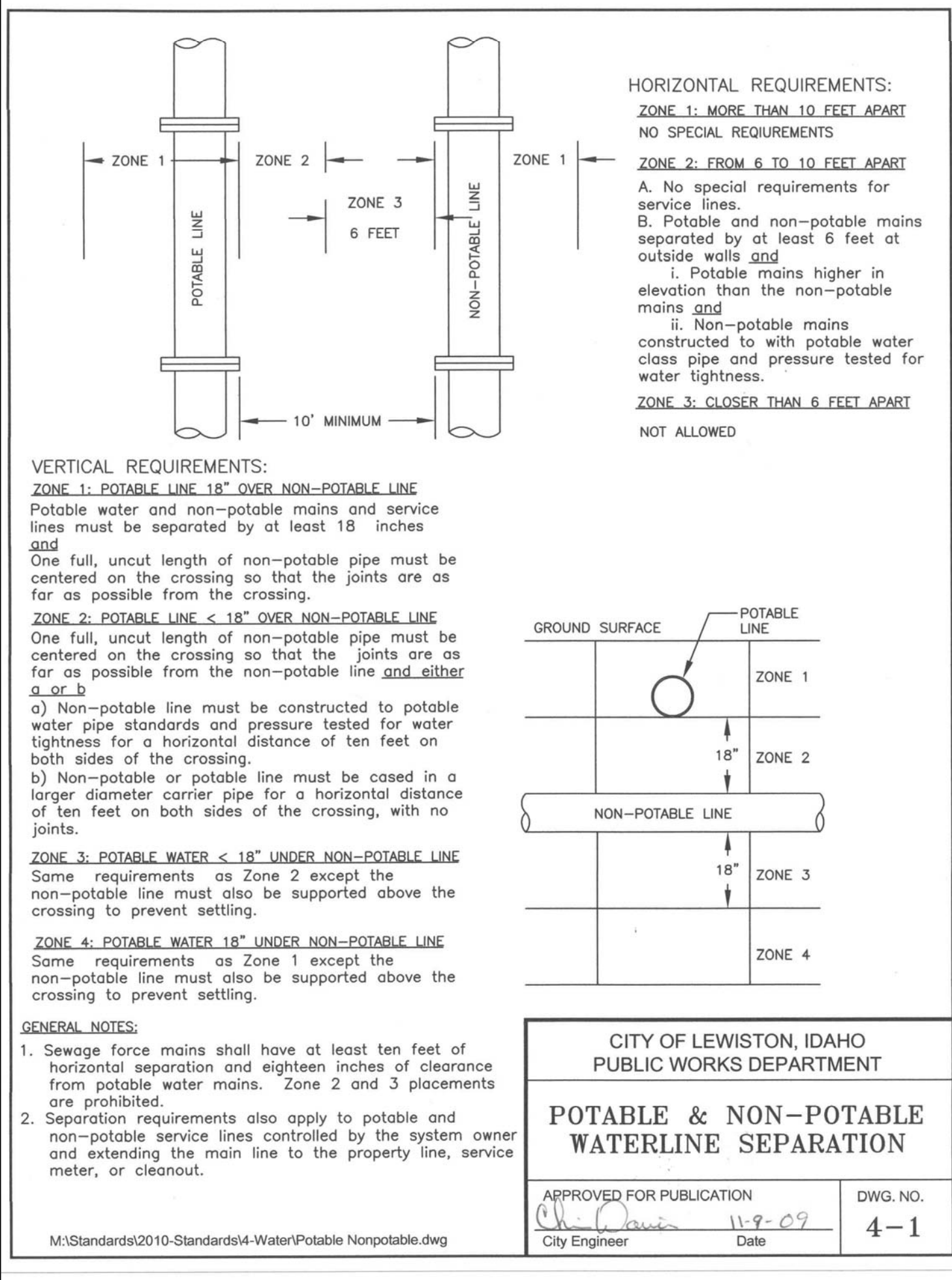
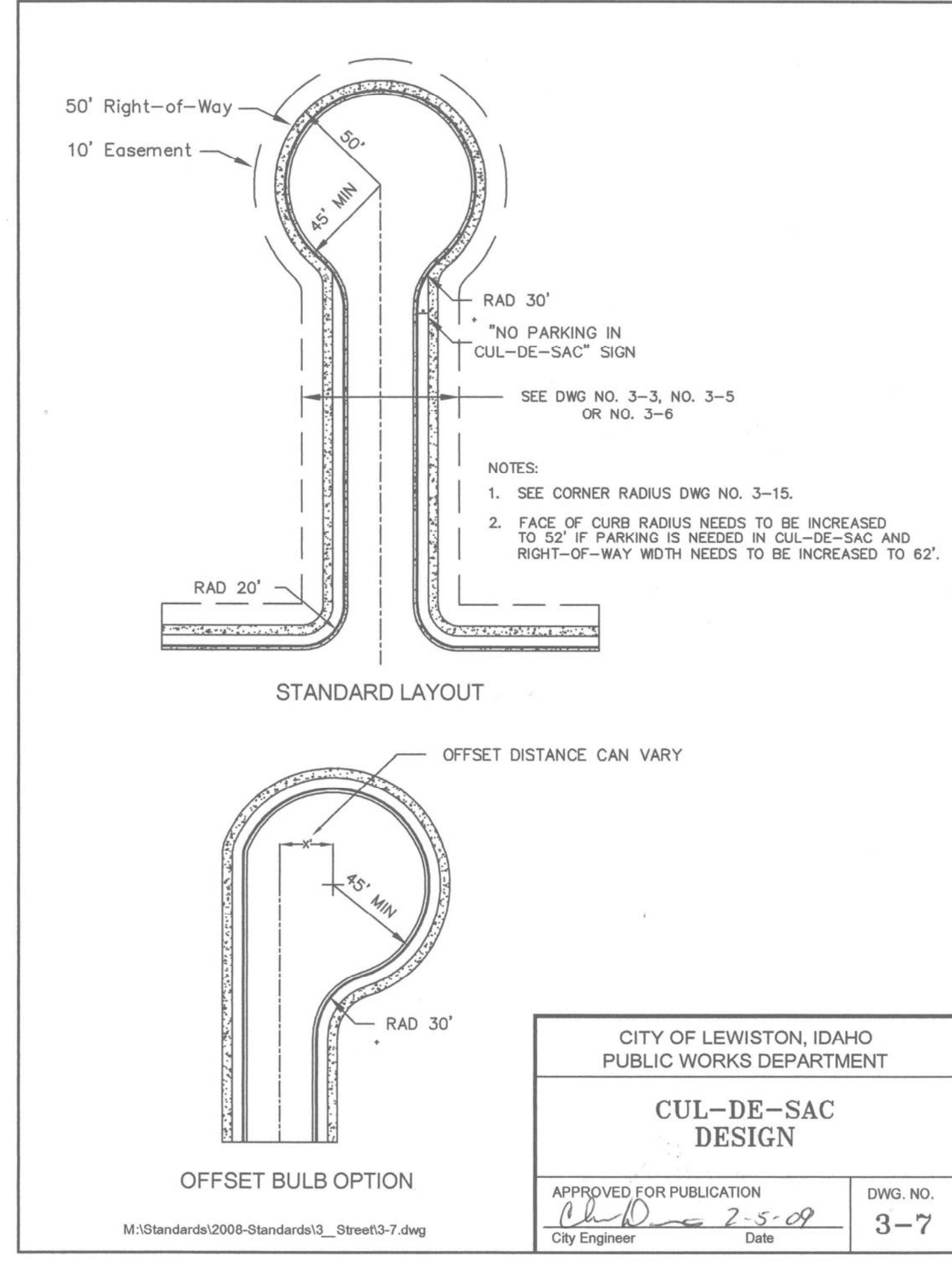
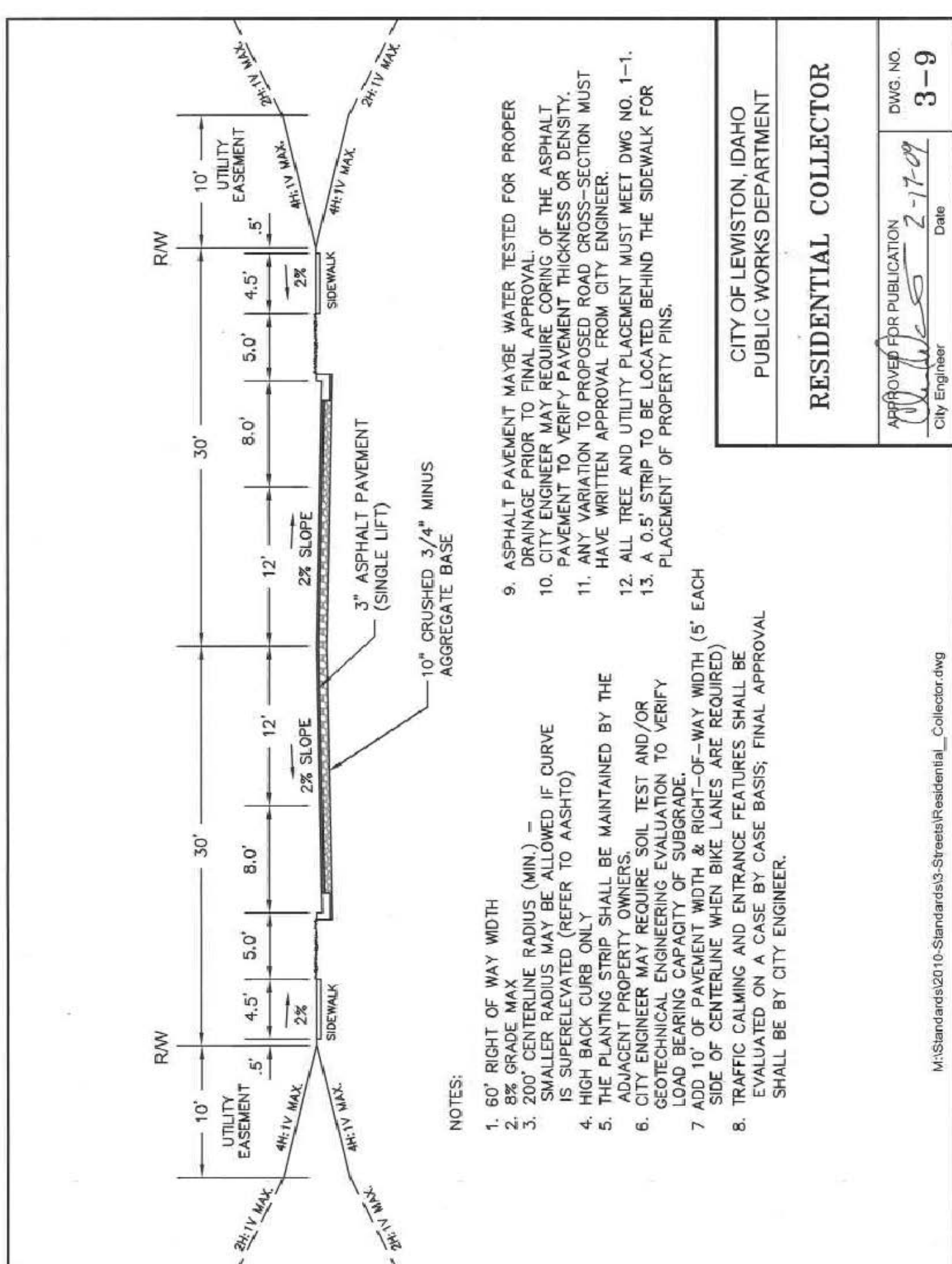
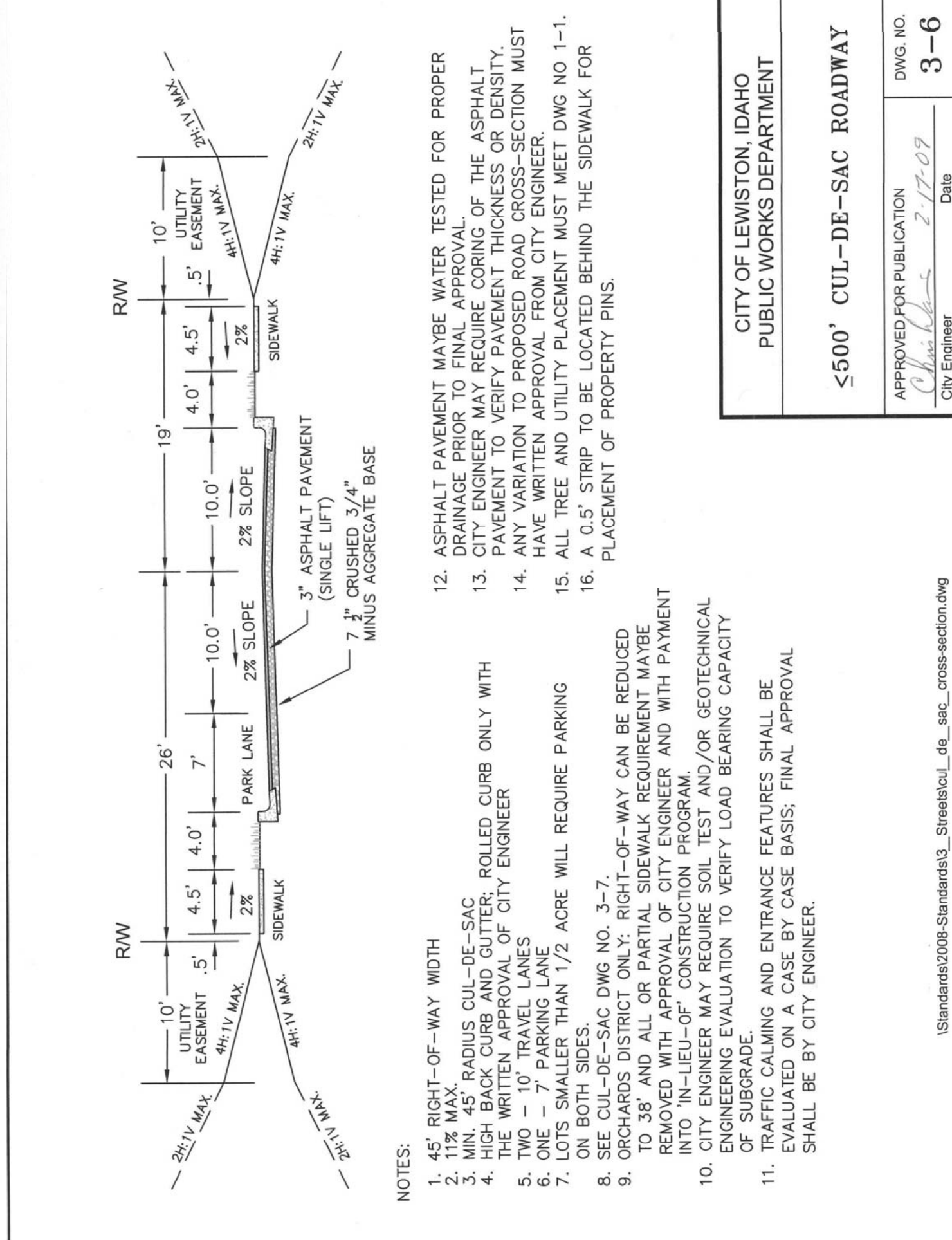
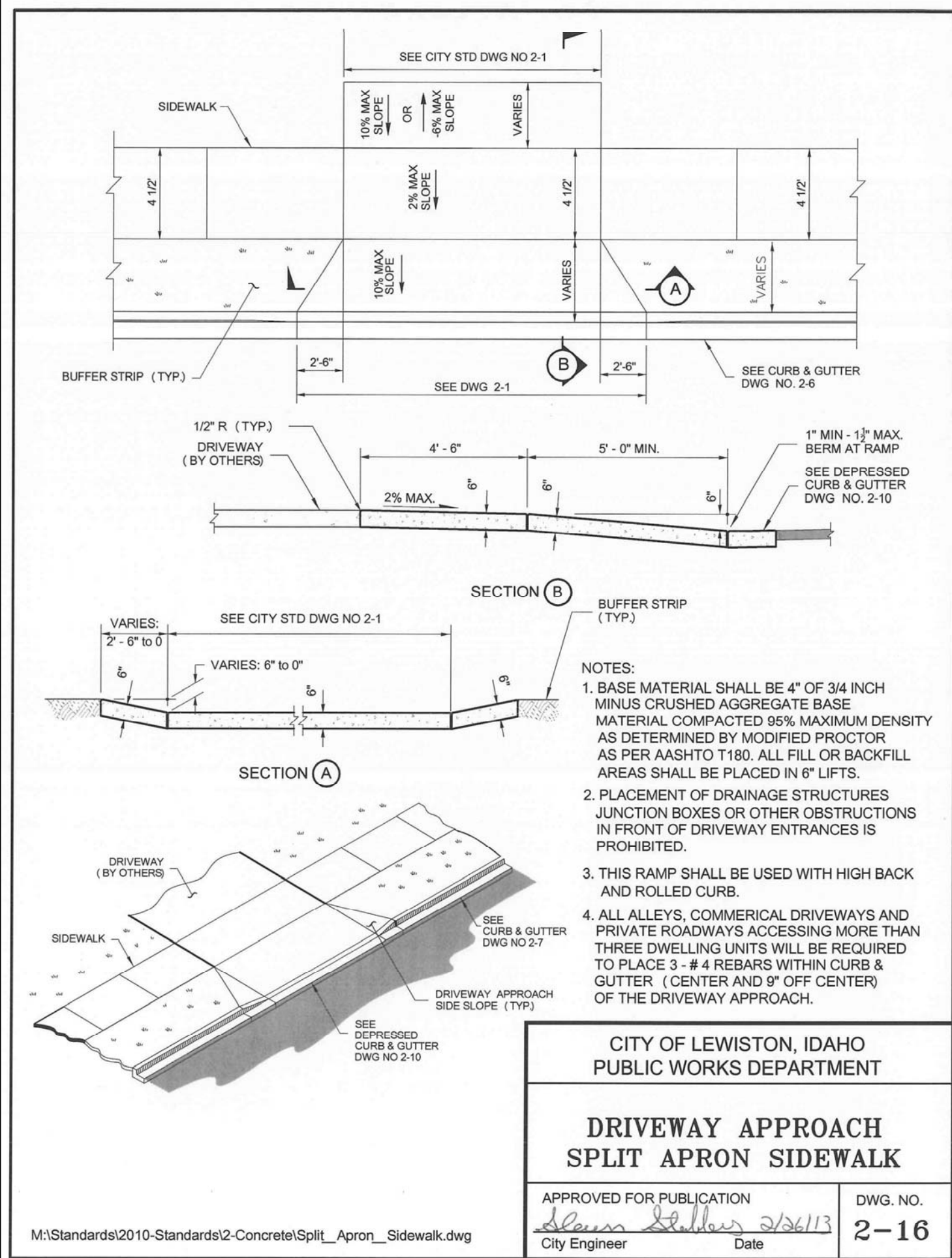


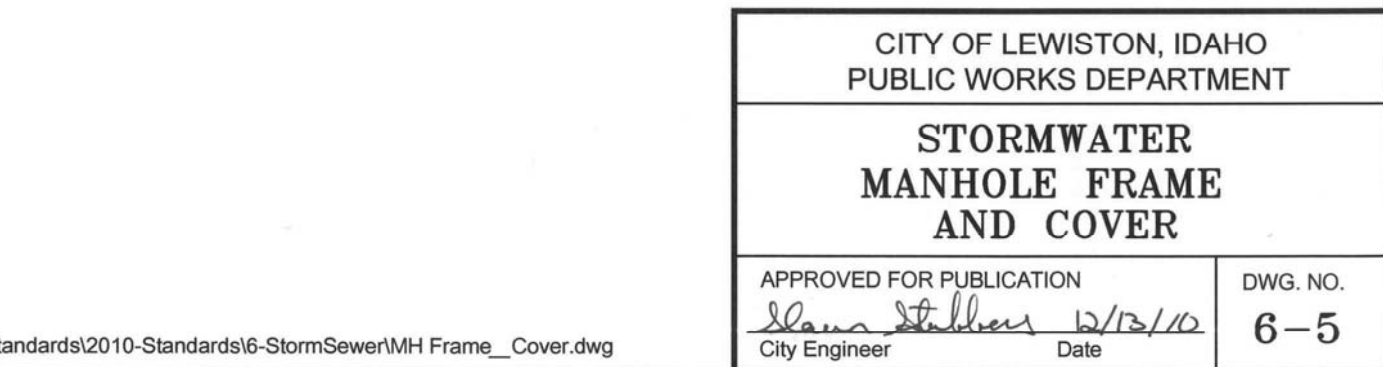
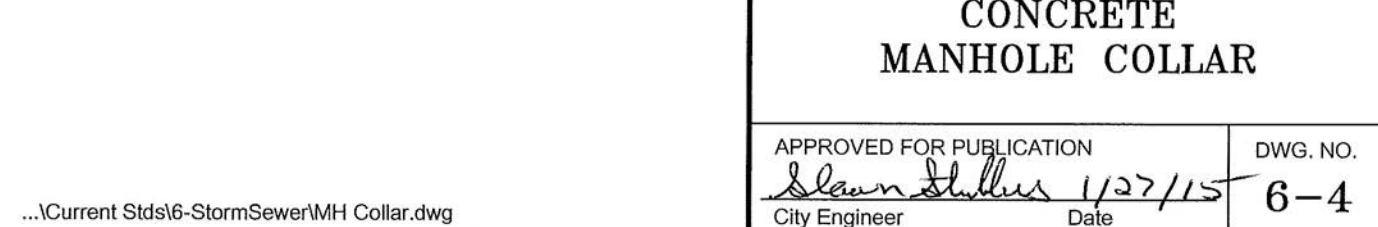
THE ESTATES AT CANYON CREST - PHASE III/ PROJECT IIIA
STANDARD DETAILS
RPL DEVELOPMENT CO., INC.
LEWISTON, IDAHO

SCALE		SHEET SIZE		REVISION		CHECKED		APPRO.	
DRAWN BY	DATE	CHECKED BY	DATE	REV.	DESCRIPTION	DATE	BY	DATE	BY
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	03-03-17								
SHEET	C22		1650						
DRAWING #	1650-C22								

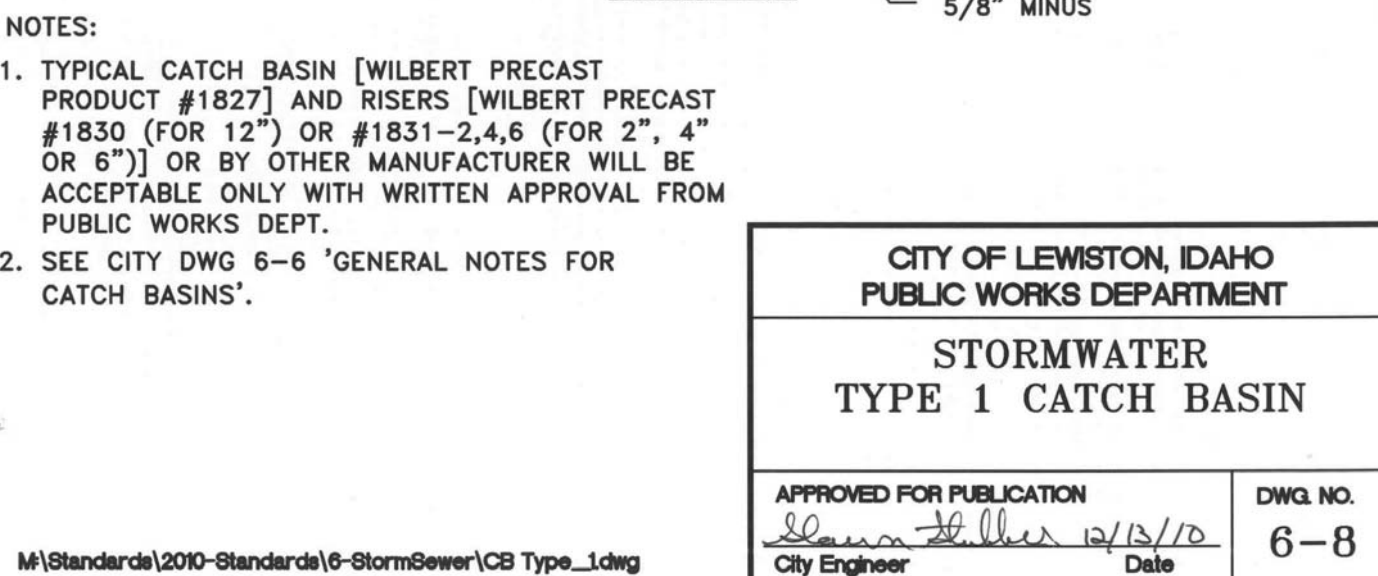
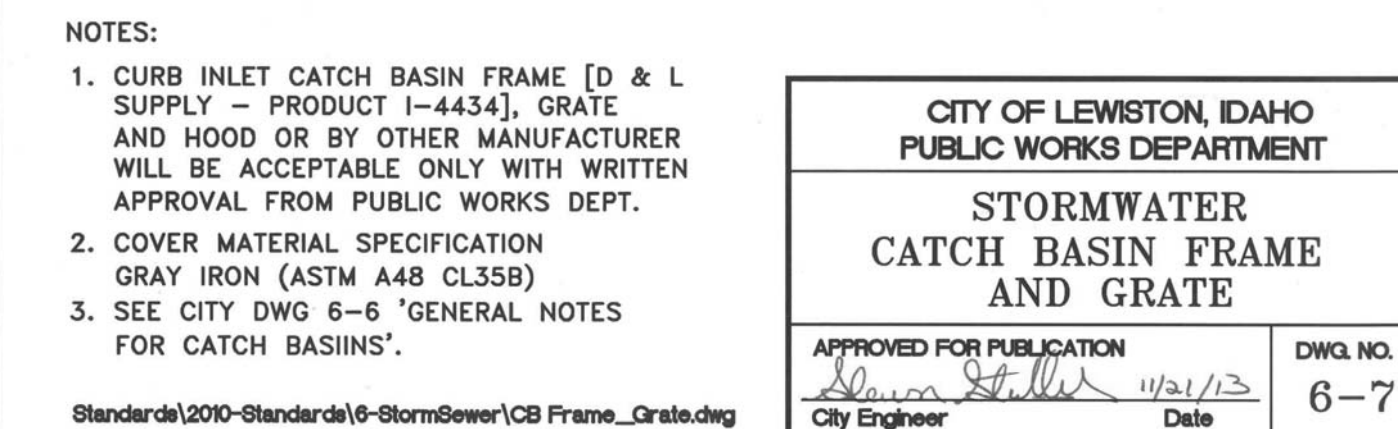
HAMMOND ENGINEERING & DEVELOPMENT CO.
 528 BRYDEN AVENUE LEWISTON, IDAHO 83501
 (208) 796-5422

C22





1. ALL UNITS TO MEET OR EXCEED THE REQUIREMENTS OF ASTM C478/AASHTO M199.
2. ALL CURB INLET STRUCTURES SHALL HAVE A MINIMUM 12" SUMP WITH THREE 1 1/2" DIA. WEEP HOLES IN BASE AND MINIMUM OF 12" OF COMPACTED 5/8" MINUS UNDER BASE, CRUSHED AGGREGATE MATERIAL COMPACTED TO 95% MINIMUM PROCTOR AS PER AASHTO T180
3. A CATCH BASIN SHALL BE INSTALLED UPHILL TO EACH INTERSECTION CORNER RADIUS AND SPACED NO MORE THAN 400 FEET ALONG THE LENGTH OF THE STREET OR AT CITY ENGINEER'S REQUIRED SPACING. ADJUSTMENTS TO SPACING SHALL REQUIRE CALCULATIONS TO VERIFY THE CHANGES HAVE MET CITY SPECIFICATIONS.
4. PRECAST BASINS SHALL BE FURNISHED WITH CUTOOTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM.
5. ALL PIPES SHALL BE FLUSH WITH BASIN WALL AND SHALL BE COMPLETED ALL AROUND.
6. USE CITY STD DWG NO. 6-7 FOR CATCH BASIN FRAME AND GRATE.
7. REDUCTION SLAB, RISERS, AND FRAME & GRATE SHALL NOT BE MORE THAN ONE INCH OUT OF VERTICAL ALIGNMENT WITH CATCH BASIN BASE.
8. MAXIMUM DEPTH FROM FINISHED GRADE TO PIPE INVERT IS 5 FEET.
9. USE A MINIMUM OF 1/2" NON-SHRINK GROUT BETWEEN RISERS, BASE, AND FRAME.
10. CURB INLET TO BE PLACED WITHIN A TOLERANCE OF 1/2" HORIZONTAL ALIGNMENT FROM CURB LINE.
11. SET GRATE 1" LOWER THAN PROPOSED FLOWLINE TO ENSURE POSITIVE DRAINAGE INTO CATCH BASIN. CURB FLOWLINE SHALL BE TRANSITION TO 3" ON EACH SIDE OF THE CATCH BASIN TO ADJUST FOR 1" DROP, GUTTER INL AND TOP OF CURB ARE NOT TO BE DEPRESSED.



**THE ESTATES AT CANYON CREST - PHASE III/ PROJECT IIIA
STANDARD DETAILS
RPL DEVELOPMENT CO., INC.
LEWISTON, IDAHO**