



February 8, 2018

Dave Doeringsfeld  
Port of Lewiston  
1626 6<sup>th</sup> Avenue N  
Lewiston, ID 83501

RE: Colonel Wright Way  
Acceptance Letter

Dear Mr. Doeringsfeld,

The above referenced project's public infrastructure and As Recorded Drawings (1/25/18) have been approved and accepted by the City of Lewiston. These completed items initiates the one (1) year warranty period starting from date of this Acceptance Letter.

If you have any questions or need additional information, 208-553-6809 or email [PSeverance@cityoflewiston.org](mailto:PSeverance@cityoflewiston.org).

Sincerely,

Pat Severance

CC: Riedesel Engineering



**GENERAL NOTES**

- CONSTRUCTION SHALL BE IN ACCORDANCE WITH IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION 2015 EDITION EXCEPT AS MODIFIED BY THE SPECIAL PROVISIONS, AND THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL COMPLETE THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND FILE A NOTICE OF INTENT (NOI) A MINIMUM OF FOURTEEN (14) DAYS PRIOR TO ANY CONSTRUCTION ACTIVITIES.
- WASTE AND STOCKPILE AREAS WILL BE AS DIRECTED BY ENGINEER AND/OR AS SHOWN.
- IN PLACE FIELD DENSITIES FOR CONSTRUCTION SHALL BE DETERMINED IN ACCORDANCE ISPWC 202.3.8.C.
- PAVEMENT IN AREAS WHERE THE CONTRACTOR MUST CROSS WITH EQUIPMENT SHALL BE PROTECTED. ANY DAMAGED PAVEMENT SECTIONS SHALL BE CUT OUT AND REPAVED IN ACCORDANCE WITH SECTION 810 AT NO ADDITIONAL COST TO THE OWNER.
- STAGING AREAS AND HAUL ROADS ON NATURAL GROUND, SHALL BE DISKED, GRADED, AND SEEDED IN ACCORDANCE WITH 206 SEEDING, UPON COMPLETION OF THE PROJECT. HAUL ROADS ON EXISTING GRAVEL AND DIRT ROADS SHALL BE GRADED AND ROLLED UPON COMPLETION OF THE PROJECT. THIS COST SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- STAGING AREAS WILL BE AS SHOWN OR AS DIRECTED BY ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR THE QUALITY CONTROL AND QUANTITY OF THE SOURCES OF MATERIAL TO BE USED.
- WATER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTACT BRYAN LACY, CITY OF LEWISTON WATER SYSTEMS MANAGER, AT (208) 746-1316 FOR PRICING AND CONNECTION OPTIONS.
- THE CONTRACTOR SHALL HAVE ACCESS THROUGH APPROVED ACCESS POINTS ONLY. ACCESS AND CONSTRUCTION ROUTES WILL BE MAINTAINED AND RESTORED TO ORIGINAL CONDITION BY THE CONTRACTOR.
- THE CONTRACTOR SHALL LOCATE ALL BURIED UTILITIES AND POWER CABLES PRIOR TO EXCAVATION. THE CONTRACTOR SHALL RETAIN AND PROTECT ALL EXISTING UTILITIES AND ELECTRICAL EQUIPMENT, UNLESS NOTED OTHERWISE. CALL 811 TWO WORKING DAYS BEFORE YOU DIG.
- EXISTING SURVEY MONUMENTS SHALL BE RETAINED AND PROTECTED DURING CONSTRUCTION.
- STORM DRAIN PIPE SHALL BE DUAL WALL, TYPE S CORRUGATED PLASTIC PIPE (CPP), ASTM C-905 OR ASTM C-906 HDPE.
- TEMPORARY DRAINAGE CONTROL MUST BE MAINTAINED DURING CONSTRUCTION.
- ALL BITUMINOUS SURFACE COURSE CONSTRUCTION JOINTS, TRANSVERSE AND LONGITUDINAL, MORE THAN 24 HOURS OLD SHALL BE CUT VERTICALLY 2 TO 3 INCHES BACK FROM THE JOINT AND MATERIAL REMOVED. CUTTING AND MATERIAL REMOVAL SHALL BE INCIDENTAL TO SECTION 810 ITEMS. TACK COAT SHALL BE APPLIED ON ALL COLD JOINTS AND CURBS.
- MATERIAL FOR SP-2800 TOPSOILING SHALL BE OBTAINED FROM ON SITE STRIPPINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALCULATING AND STOCKPILING THE REQUIRED QUANTITIES OF TOPSOIL.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTING WORK AND PROPERTY FROM STORM WATER DRAINAGE. DAMAGED WORK SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.

**CITY INSPECTION CHECKLIST**

ITEM	MATERIAL	TEST / STANDARD	ACCEPTANCE	TEST FREQUENCY	INSPECTOR/CO.	DATE	INITIAL
<b>1. ALL UTILITY TRENCHES &amp; STRUCTURES</b>							
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].			
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.			
1st 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. If project is less than 100 linear feet, one in-place density test per day OR per lift [whichever test frequency is more restrictive].			
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. If project is less than 100 linear feet, one in-place density test per day OR per lift [whichever test frequency is more restrictive].			
STRUCTURAL FILLS	As Spec'd by Engineer	As Spec'd by Engineer		As Spec'd by Engineer			
<b>2. STORM DRAIN MAINS</b>							
GASKETED PE Storm Sewer Pipe	Polyethylene, ADS N-12 or Equal		Certified & Visual by City		Certified & Visual by City		
ALIGNMENT AND GRADE	N/A	Per Manufacturer's Instructions		Per Plan			
JOINTS (Deflection/Proper Pipe Embedment)	N/A	Per Manufacturer's Instructions		Each Joint			
PRESSURE TEST	N/A	4 PSI for 15 Minutes, 1/2 PSI Drop	If required by City Engineer	Between Access Holes			
MANHOLES	Concrete	City Standard		N/A	Certified & Visual by City		
VIDEO INSPECTION	N/A		Public Works Policy No 2012-2				
<b>3. WATER MAINS</b>							
DUCTILE IRON or PVC WATER MAIN	AWWA C-151, C-900, C-905 (Class as Req'd)		Certified & Visual by City		Certified & Visual by City		
ALIGNMENT AND GRADE	N/A	AWWA C-600, AWWA C-605		Per Plan			
JOINTS (Deflection/Proper Pipe Embedment)	N/A	AWWA C-600, AWWA C-605		Each Joint			
THRUST BLOCKS	Concrete, 2500 PSI Mix	Per Approved Plans/or City Std Dwg # 4-4		Each Joint	Certified & Visual by City		
HYDROSTATIC PRESSURE	N/A	2 Hrs. NTE Allowable Leakage Per AWWA C-600, AWWA C-605		150% Working Pressure OR 1 1/2 times the Working Pressure in the Water System			
CHLORINATION/BACTERIA	N/A	AWWA C-651		Bacterial Testing: two negative testing samples 24 hours apart	City of Lewiston		
<b>4. WASTEWATER MAINS</b>							
PVC WASTEWATER MAIN	PVC, SDR 35	ASTM 3034		N/A			
ALIGNMENT AND GRADE	N/A			Per Plan			
JOINTS (Deflection/Proper Pipe Embedment)	N/A	Per Manufacturer's Instructions		Each Joint			
MANHOLES	Concrete	Hydrostatic Test		Each Joint			
PRESSURE TEST	N/A	4 PSI for 15 Minutes, 1/2 PSI Drop		Between Access Holes			
VIDEO INSPECTION	N/A	No Perforations, Dents or Dimples, No Bellies > 0.02'	Public Works Policy No 2012-2	Between Access Holes			
<b>5. CONCRETE CURB, GUTTER &amp; SIDEWALK</b>							
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			
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			
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			
FINISH	N/A	Visual	Floated, Uniform, Light Broom Finish	Entire Surface Area			
<b>6. ASPHALTIC CONCRETE PAVING</b>							
SUPERPAVE HOT MIX ASPHALT	ITD 405 Superpave Class SP2, SP3 and SP5 (2012 ITD Spec 405 and 703.05)	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-27 & T-11, Sieve Analysis AASHTO T-166 Method A, Air Voids, and Voids in Mineral Aggregates (VMA) WAQTC TM-8, In-Place Density of Bituminous Mixes AASHTO T-209, Theoretical Maximum Density (RICE)	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 Voids Filled with Asphalt - Table 703.05-1 +/- 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.			
CRUSHED AGGREGATE BASE COURSE*	Same test requirement as under 5. Concrete Curb, Gutter & Sidewalk						
<b>7. EROSION &amp; SEDIMENT CONTROLS</b>							
	Per Approved Plan	Per Plan and Manufacturers' Instructions		1/Wk or After Every Rainfall			
<b>8. TRAFFIC CONTROL</b>							
	Per Approved Plan	Current Adopted MUTCD/ATSSA		Continuous			
<b>9. PRIVATE STORMWATER SYSTEM</b>							
	Per Approved Plan	City Resolution #80-100	Certified & Visual by City	Before Public Improvements Accepted	Certified & Visual by City - Underground infrastructure elements must be approved by City prior to backfill.		
<b>10. RECORD DRAWINGS</b>							
<b>11. ENGINEER'S CERTIFICATION</b>							
Date Last: Revised September 2016							



**RIEDEL Engineering**

77 Southway, Suite C  
Lewiston, Id. 83501  
Phone: (208) 743-3818  
Fax: (208) 743-3819


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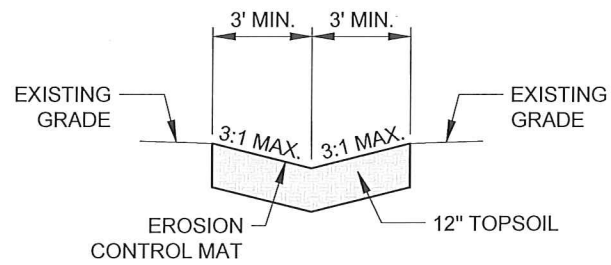
PORT OF LEWISTON  
2017 PORT GRADING PROJECT  
2017

GENERAL NOTES, ABBREVIATIONS & LEGEND

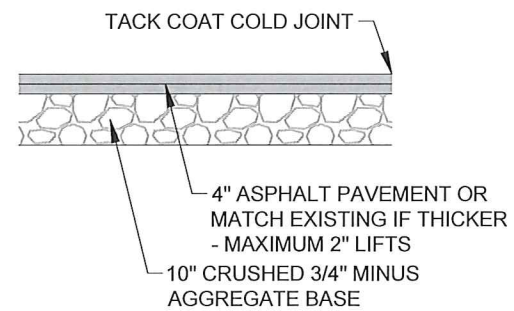
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DESIGNED: WDR  
CHECKED: RLH  
DETAILED: RLH  
DRAWING CHECKED: RLH  
FILE NAME: 2635-NOTES.dwg  
DRAWING DATE: 12/1/17  
DRAWING SCALE: AS SHOWN  
SHEET: 2 OF 19

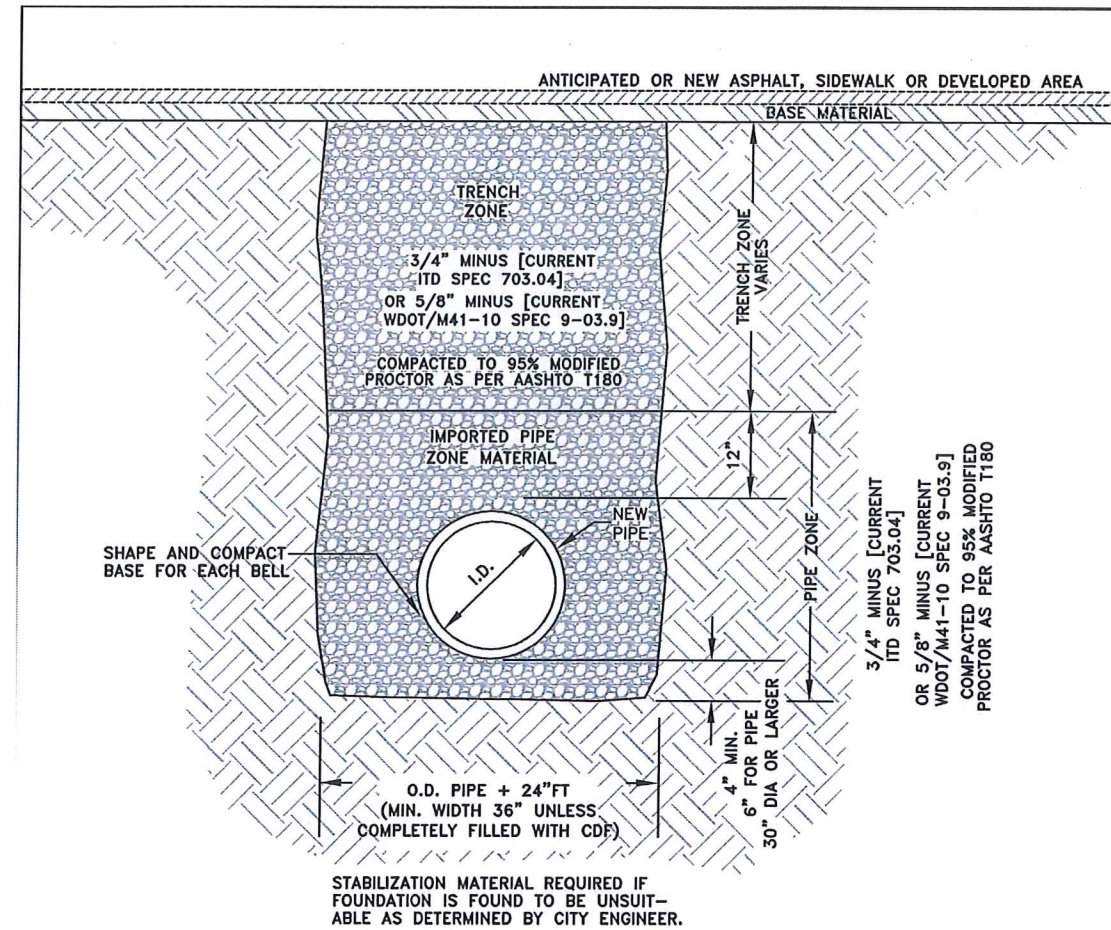




**A** SWALE DETAIL  
3 N.T.S.



**B** STREET PATCH DETAIL  
3 N.T.S.



STABILIZATION MATERIAL REQUIRED IF FOUNDATION IS FOUND TO BE UNSUITABLE AS DETERMINED BY CITY ENGINEER.

CLASS 'D' 'NEW STREET CONSTRUCTION' BACKFILL SHALL BE USED IN AREAS WHERE ASPHALT PAVEMENT, CONCRETE CURB, SIDEWALK, DRIVEWAYS & GRAVEL SURFACING IS ANTICIPATED.

NOTES:

1. CONTRACTOR SHALL COMPLY WITH THE MOST CURRENT OSHA REQUIREMENTS FOR EXCAVATIONS.
2. CLASS 'D' BACKFILL SHALL COMPLY WITH REQUIREMENTS OF THE CITY'S STANDARDS CONSTRUCTION SPECIFICATIONS.
3. TRENCH MATERIAL SHALL BE PLACED IN MAX. OF 6" LIFTS.
4. IN EXISTING RIGHT-OF-WAY TRENCH EXCAVATION SHALL NOT BE MORE THAN 100 FEET AHEAD OF THE PIPE LAYING OPERATION.
5. TRENCHES ARE TO BE BACKFILLED AT THE END OF EACH DAY.
6. ANY ALTERATIONS TO THIS STANDARD MUST HAVE WRITTEN APPROVAL BY CITY ENGINEER.

CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT	
<b>BACKFILL CLASS 'D'</b>	
APPROVED FOR PUBLICATION <i>Shawn J. Stubbins</i> City Engineer	DATE 3/5/13
DWG. NO. <b>1-6</b>	

...Current Stds\1-General\BackFill\_ClassD.dwg



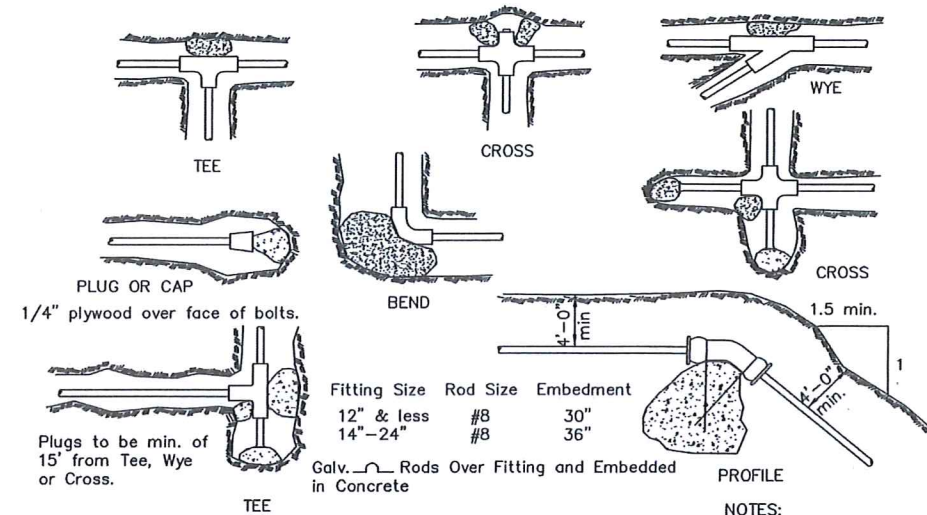
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PORT OF LEWISTON 2017 PORT GRADING PROJECT 2017		DETAILS	
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DESIGN CHECKED	RLH	DRAWING DATE	12/1/17
DETAILED	WDR	DRAWING SCALE	AS SHOWN
DRAWING CHECKED	RLH	SHEET	3 OF 19
NO.	DATE	BY	DESCRIPTION
1	12-4	RLH	DRAWINGS OF RECORD
2			
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PROFESSIONAL ENGINEER  
REGISTERED  
7556  
12/04/17  
STATE OF IDAHO  
REX L. HARDING





Fitting Size	BEARING AREA OF THRUST BLOCKS IN SQ. FT.				
	Tee, Wye, Plug or Cap	90° Bend Plugged Cross; Tee	45° Bend	22 1/2° Bend	11 1/4° Bend
4	1.0	1.4	1.0	---	---
6	2.1	3.0	1.6	1.0	---
8	3.8	5.3	2.9	1.5	1.0
10	5.9	8.4	4.6	2.4	1.2
12	8.5	12.0	6.6	3.4	1.7
14	11.5	16.3	8.9	4.6	2.3
16	15.0	21.3	11.6	6.0	3.0
18	19.0	27.0	14.6	7.6	3.8
20	23.5	33.3	18.1	9.4	4.7
24	34.0	48.0	26.2	13.6	6.8

Fitting Size	VOLUME OF THRUST BLOCK IN CU. YD.			
	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
4	---	---	---	---
6	1.3	---	---	---
8	2.3	1.1	---	---
10	3.7	1.8	---	---
12	5.5	2.8	1.2	---
14	7.6	3.9	1.7	---
16	9.9	5.1	2.3	0.9
18	---	6.3	3.2	1.4
20	---	7.7	4.0	1.8
24	---	11.1	5.7	2.6

NOTE:  
Above volumes based on test pressure of 150 p.s.i. & the weight of concrete = 4050 lbs./cu.yd. To compare volumes for different test pressures use the following equation:

$$\text{VOLUME} = (150 \text{ p.s.i. test pressure}) \times (\text{table value}).$$

Thrust blocks for vertical up-bends shall be the same as for horizontal bends.

M:\Standards\2010-Standards\4-Water\Thrust Blocking.dwg

- NOTES:
- Bearing areas based on test pressure of 150 p.s.i. & soil bearing stress of 2,000 lbs. per sq.ft. To areas for different test pressure & soil bearing stresses, following equation: BEARING AREA = (150 p.s.i. test pressure)x(2000 lbs soil bearing stress)x(table value).
  - Concrete thrust blocking to be placed against undisturbed earth.
  - Keep concrete clear of joint and accessories.
  - The required thrust bearing areas for special connections are shown encircled on the plans; e.g. 15 indicates 15 sq. ft. bearing area required.
  - If not shown on plans, required bearing areas at fittings shall be as

indicated above, adjusted if necessary, to conform to the test pressure(s) & allowable soil bearing stress(es) stated in the Special Specifications.

6. Bearing areas & special blocking details shown on plans take precedence over bearing areas & blocking details shown on this standard detail.

7. Concrete Compressive Strength shall be 2,500 p.s.i. minimum.

8. Concrete will be allowed 48 hrs. to set if high early yield concrete is used, otherwise, 7 days curing will be required.

CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT

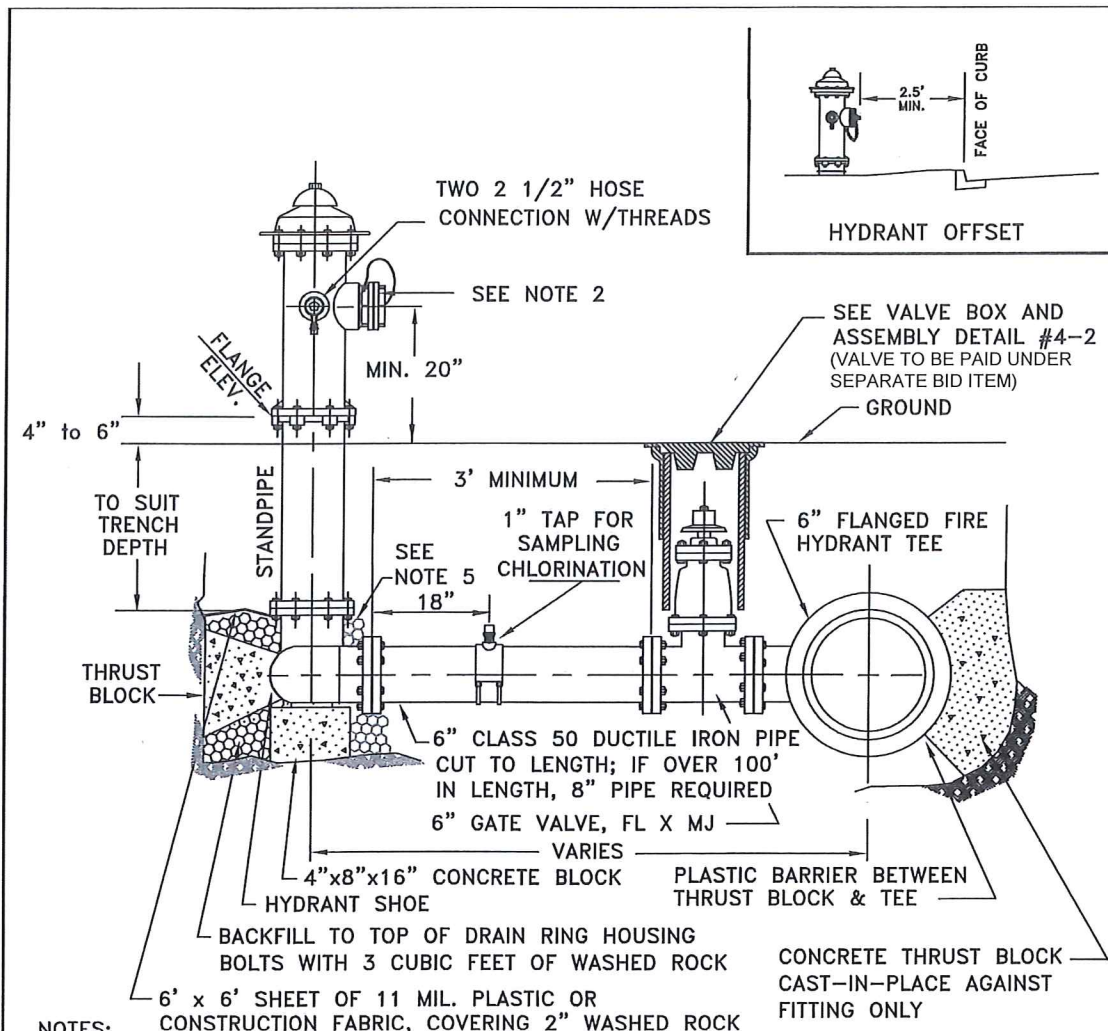
**THRUST BLOCKING  
DETAIL**

APPROVED FOR PUBLICATION

*Ch. [Signature]* 11-9-09  
City Engineer Date

DWG. NO.

4-4



NOTES:

- FIRE HYDRANT SHALL BE MUELLER SUPER CENTURION, WATEROUS PACER WITH 16" UPPER STANDPIPE OR EAST JORDAN IRON WORKS WATERMASTER.
- HARRINGTON STORZ ADAPTER (4 1/2" NH x 5" STORZ) AND BLIND CAP (5" STORZ) W/ AIRCRAFT CABLE AT THE 4 1/2" PUMPER NOZZLE.
- FIRE HYDRANT SHALL BE SPACED AT A MAX. OF 500 FEET IN RESIDENTIAL AREAS AND 300 FEET IN COMMERCIAL AREAS.
- A MINIMUM 3 FOOT RADIUS OF UNOBSTRUCTED WORKING AREA SHALL BE PROVIDED AROUND ALL HYDRANTS.
- GRIP PACKS OR ALL THREAD REQUIRED WITH THRUST BLOCK.

... Current Stds\4-Water\Fire Hydrant.dwg

CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT

**FIRE HYDRANT  
W/ SHUT-OFF VALVE**

APPROVED FOR PUBLICATION

*[Signature]* 5/4/15  
City Engineer Date

DWG. NO.

4-12

\*NOTE:  
LOCATE WIRE TO RUN TO HYDRANT & VALVE W/ MIN. 3' SLACK

**RIEDELSEL**  
Engineering

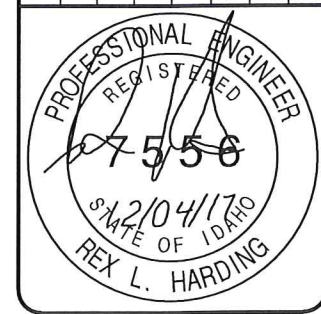
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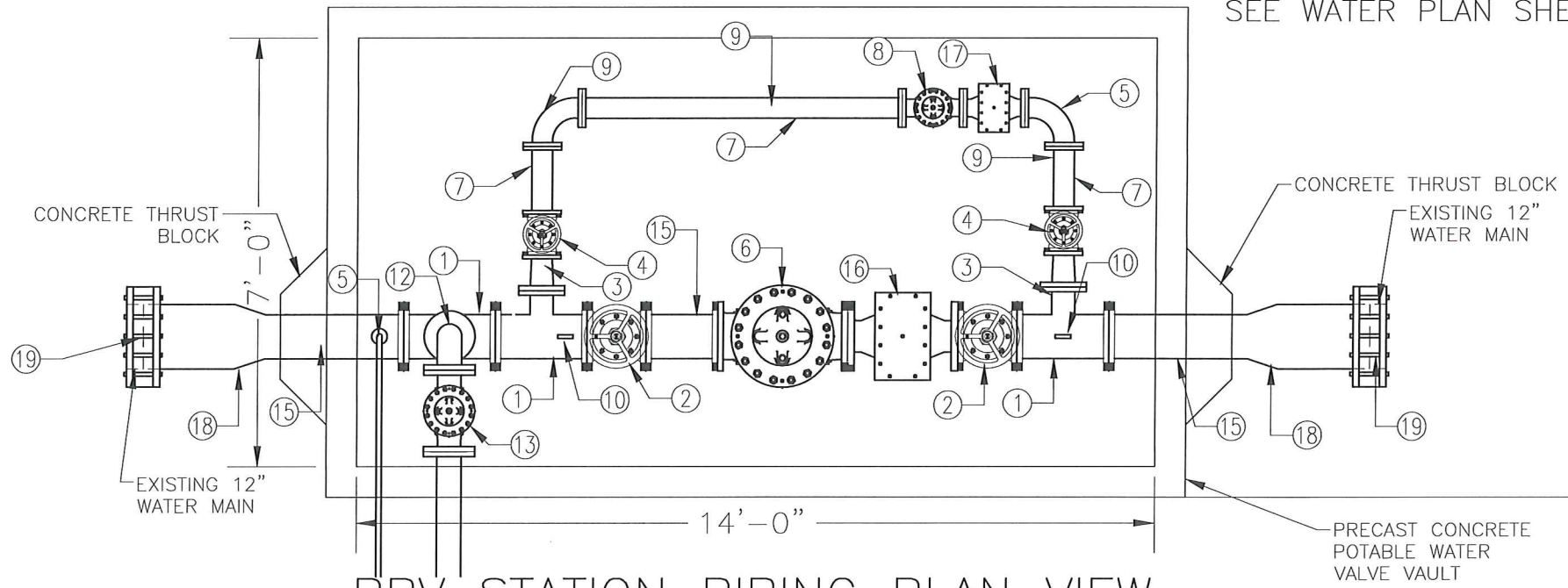
PORT OF LEWISTON  
2017 PORT GRADING PROJECT  
2017

REVISIONS		DESCRIPTION	
NO.	DATE	BY	DESCRIPTION
1	12-4	RLH	DRAWINGS OF RECORD
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DESIGNED	WDR	FILE NAME	2035-SECDET.dwg
DESIGN CHECKED	RLH	DRAWING DATE	12/1/17
DETAILED	WDR	DRAWING SCALE	AS SHOWN
DRAWING CHECKED	RLH	SHEET	5 OF 19

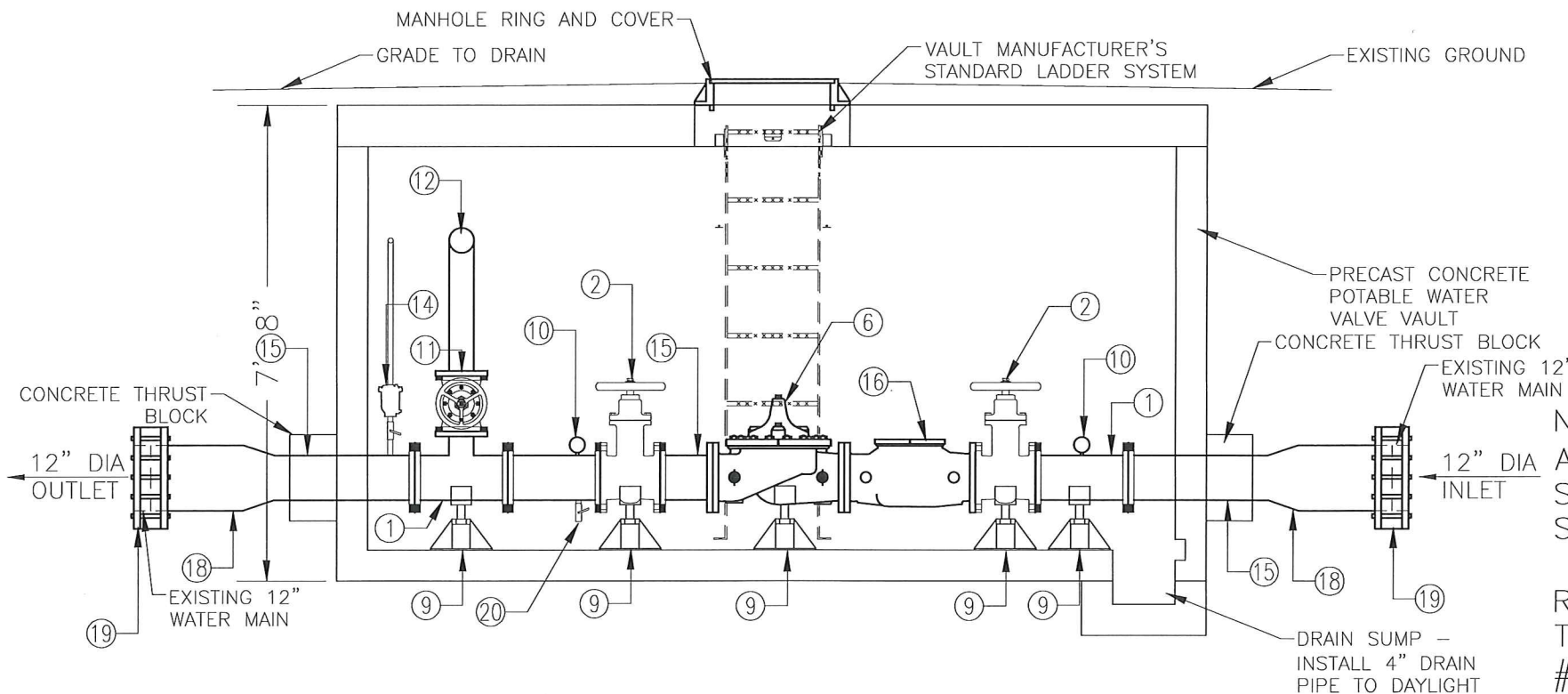


SEE WATER PLAN SHEET FOR PRV STATION LOCATION



PRV STATION PIPING PLAN VIEW

SCALE: 1" = 3/8"



PRV STATION PIPING PROFILE VIEW

SCALE: 1" = 3/8"

PRV STATION PIPING	
NUM	DESCRIPTION
①	8" X 4" TEE, FLG X FLG X FLG W/ 3/4" TAPPED HOLE(S)
②	8" GATE VALVE, FLG
③	4" X 3" REDUCER, FLG
④	3" GATE VALVE, FLG
⑤	3" 90° LR ELBOW, FLG
⑥	8" PRV, CLA-VAL 90-01 OR EQUAL
⑦	3" D.I. SPOOL, FLG
⑧	3" PRV, CLA-VAL 90-48 OR EQUAL
⑨	ADJUSTABLE PIPE SUPPORT
⑩	PRESSURE GAUGE
⑪	4" GATE VALVE, FLG
⑫	4" 90° ELBOW
⑬	4" PRESSURE RELIEF VALVE, FLG
⑭	1" COMBINATION AIR VALVE
⑮	8" D.I. SPOOL, FLG
⑯	8" STRAINER, FLG
⑰	3" STRAINER, FLG
⑱	12" X 8" REDUCER, MJ
⑲	12" TRANSITION COUPLING
⑳	3/4" HOSE BID W/ BALL VALVE

NOTES:

ALL 2" AND SMALLER PIPE TO BE THREADED STAINLESS STEEL, COMPLIES WITH LEAD-FREE SPECIFICATIONS.

REINFORCEMENT: #4 BAR @ 12" O.C.E.W. THROUGHOUT  
#4 BAR @ 6" O.C.E.W. IN COVER AND FLOOR

LOADING: OFF-ROADWAY - H2O OCCASIONAL LOAD RATED.

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PORT OF LEWISTON  
2017 PORT GRADING PROJECT  
2018

PRESSURE REDUCING STATION DETAILS

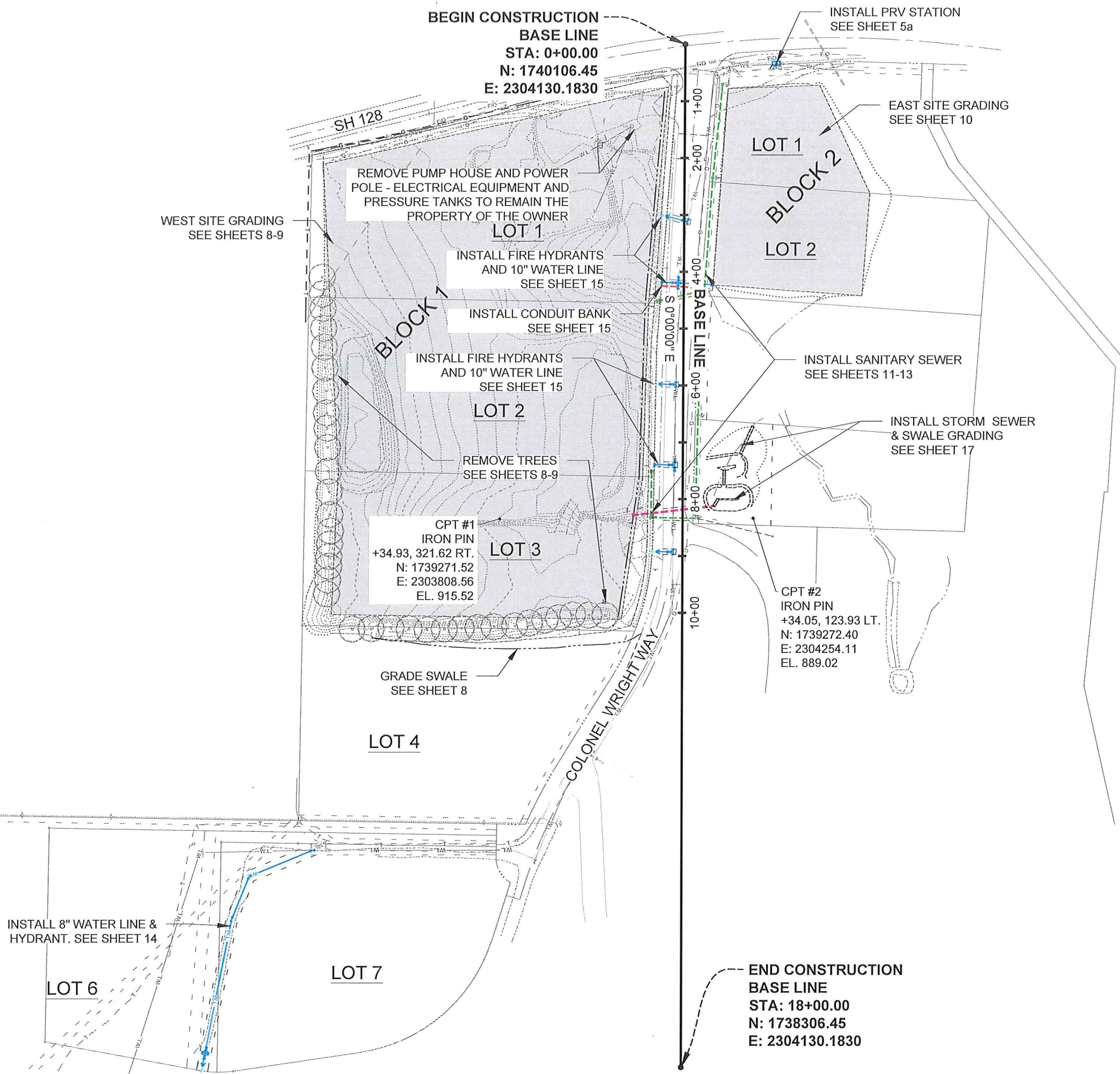
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DESIGNED: WDR  
DESIGN CHECKED: RLH  
DETAILED: WDR  
DRAWING CHECKED: RLH  
FILE NAME: 2635-PRV REV.dwg  
DRAWING DATE: 1/25/18  
DRAWING SCALE: AS SHOWN  
SHEET 50 OF 19

PROFESSIONAL ENGINEER  
REGISTERED  
7556  
1/25/18  
STATE OF IDAHO  
REX L. HARDING

PLOT DATE: 1/25/2018  
Z:\2635 2016 PORT GRADING PROJECT\CADD\2635-PRV REV.DWG

PLOT DATE: 12/1/2017  
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**RIEDEL**  
 Engineering

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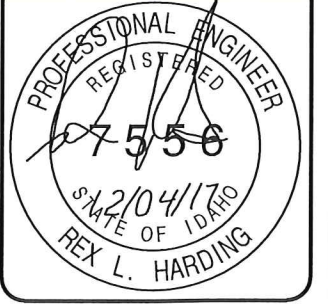
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PORT OF LEWISTON  
 2017 PORT GRADING PROJECT  
 2017

PROJECT LAYOUT PLAN

NO.	DATE	BY	REVISIONS	
			DESCRIPTION	DRAWINGS OF RECORD
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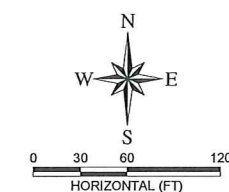
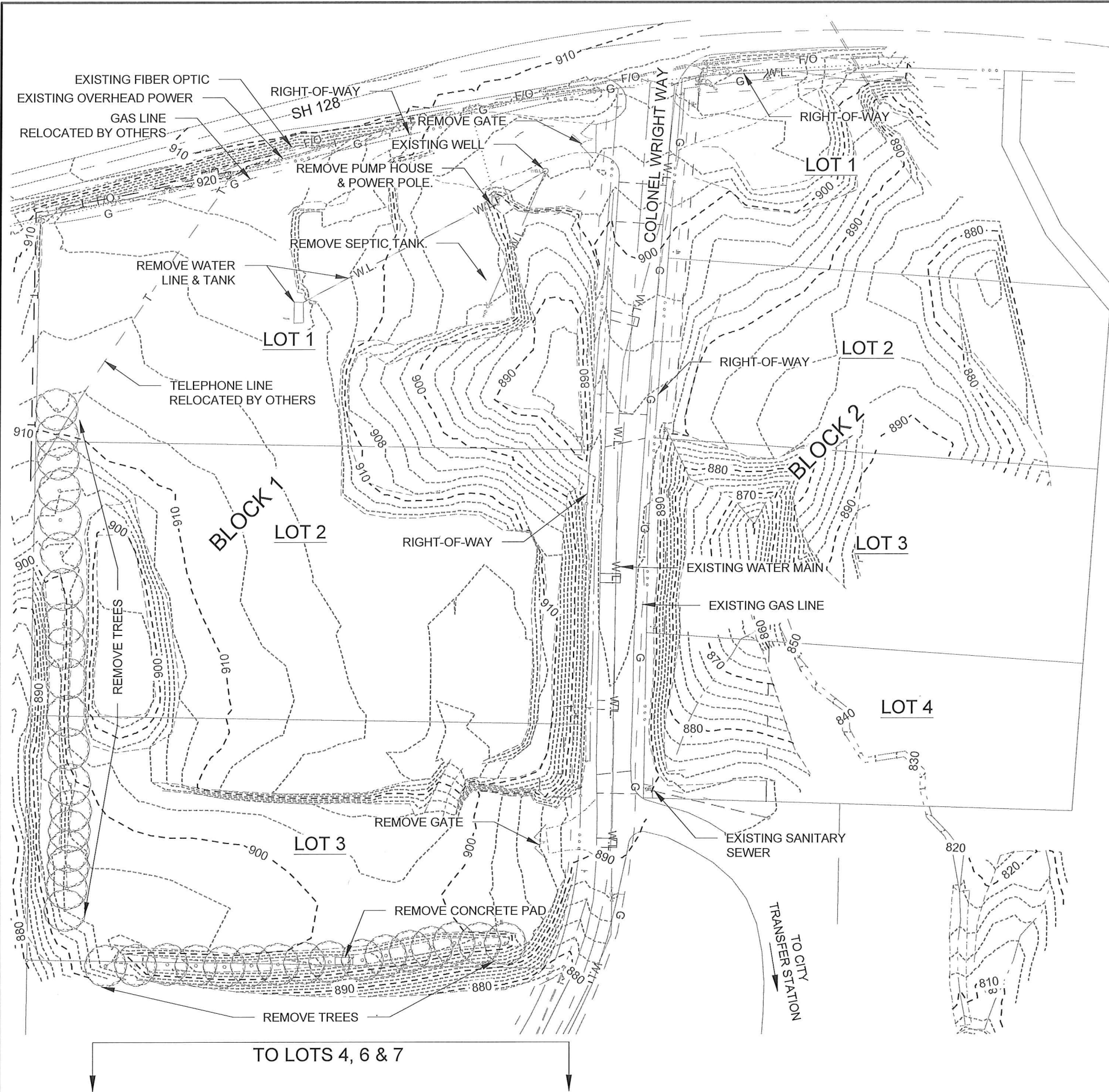
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DRAWING DATE	12/1/17
DRAWING SCALE	N.T.S.
SHEET	6 OF 19



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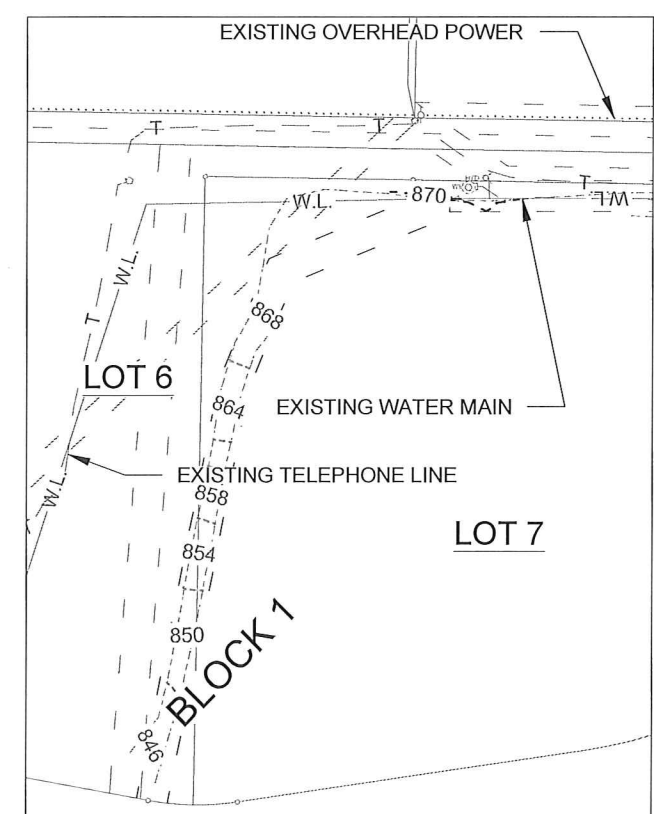


PLOT DATE: 12/1/2017  
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\*NOTE:  
 SEE GEOTECHNICAL REPORT IN REGARDS TO TOPSOIL REMOVAL AND EMBANKMENT CONSTRUCTION.

TREE AND BRUISH DISPOSAL SHALL BE IN ACCORDANCE WITH LEWISTON CITY CODE SECTION 4-11.



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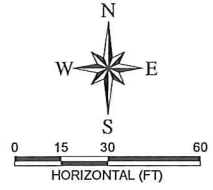
PORT OF LEWISTON  
 2017 PORT GRADING PROJECT  
 2017

EXISTING SITE PLAN

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5		RLH
6		RLH
7		RLH

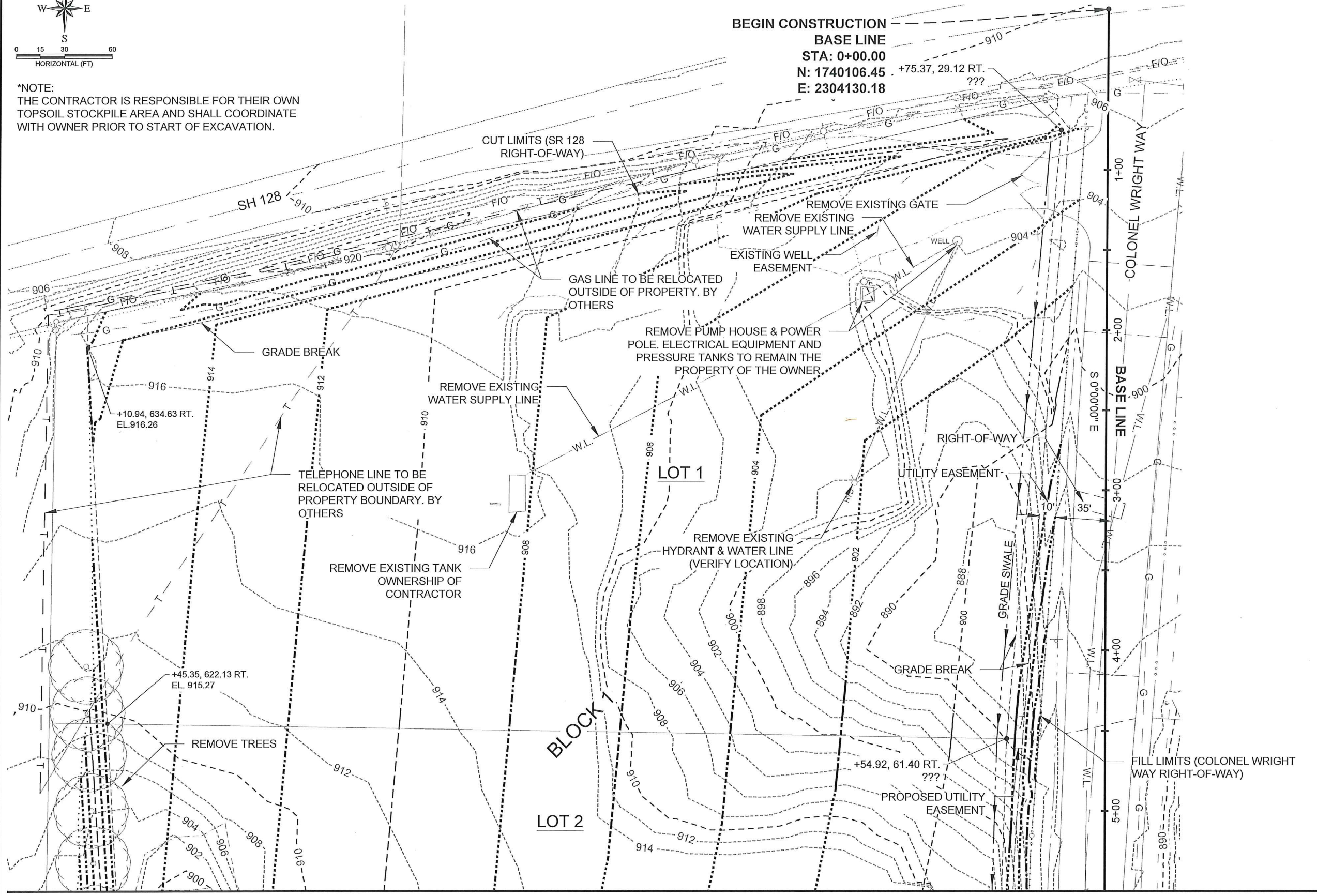
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DRAWING DATE	12/1/17
DRAWING SCALE	AS SHOWN
SHEET	7 OF 19

PROFESSIONAL ENGINEER  
 REGISTERED  
 7556  
 12/04/17  
 STATE OF IDAHO  
 REX L. HARDING



\*NOTE:  
THE CONTRACTOR IS RESPONSIBLE FOR THEIR OWN  
TOPSOIL STOCKPILE AREA AND SHALL COORDINATE  
WITH OWNER PRIOR TO START OF EXCAVATION.

BEGIN CONSTRUCTION  
BASE LINE  
STA: 0+00.00  
N: 1740106.45 +75.37, 29.12 RT.  
E: 2304130.18



**RIEDEL**  
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PORT OF LEWISTON  
2017 PORT GRADING PROJECT  
2017

WEST SITE GRADING

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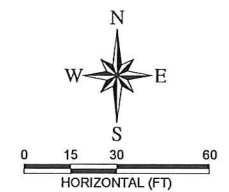
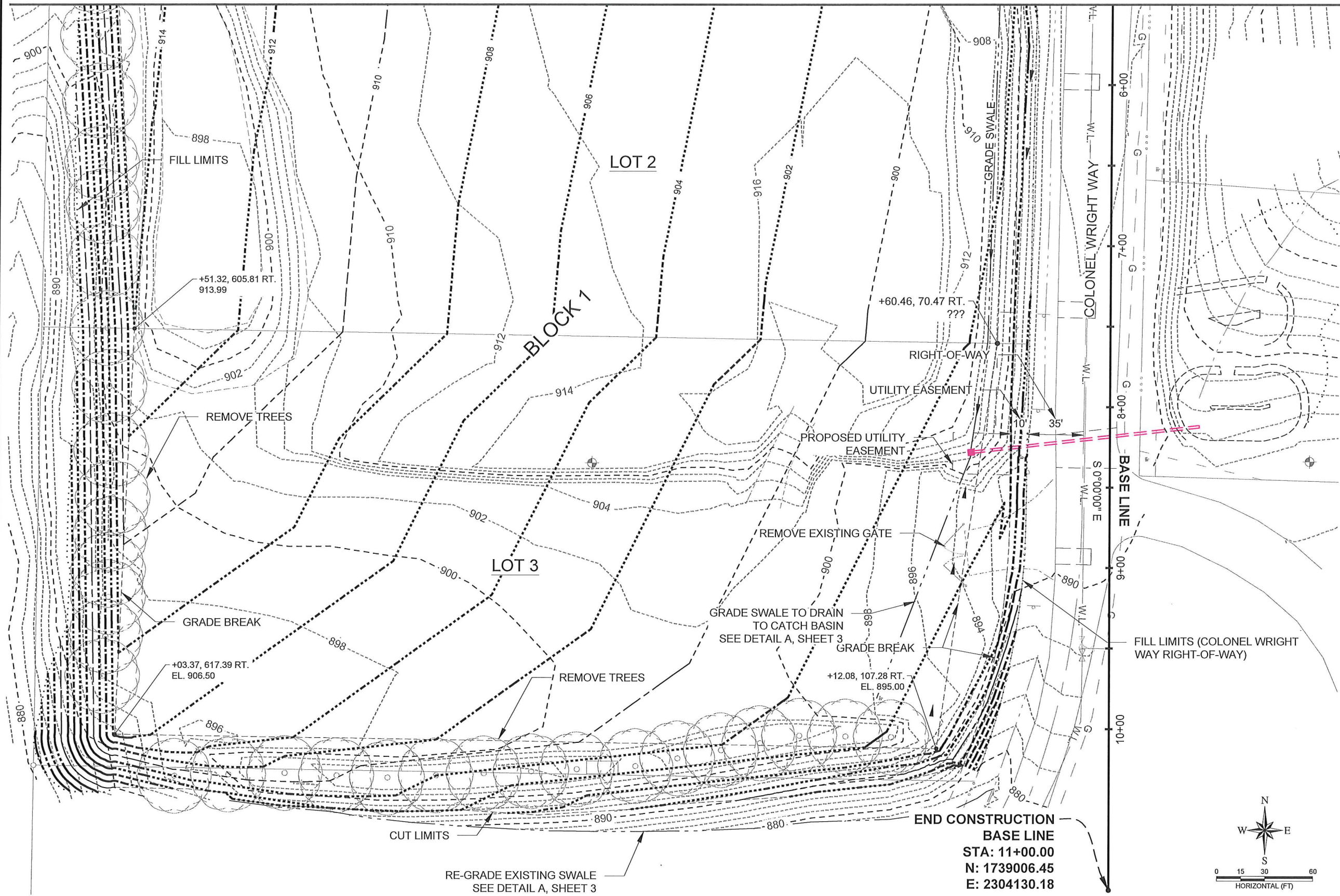
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12/04/17  
STATE OF IDAHO  
REX L. HARDING

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MATCH LINE STA: 5+50.00

PLOT DATE: 12/4/2017  
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MATCH LINE STA: 5+50.00



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PORT OF LEWISTON  
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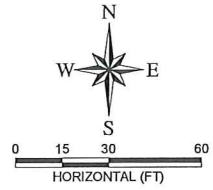


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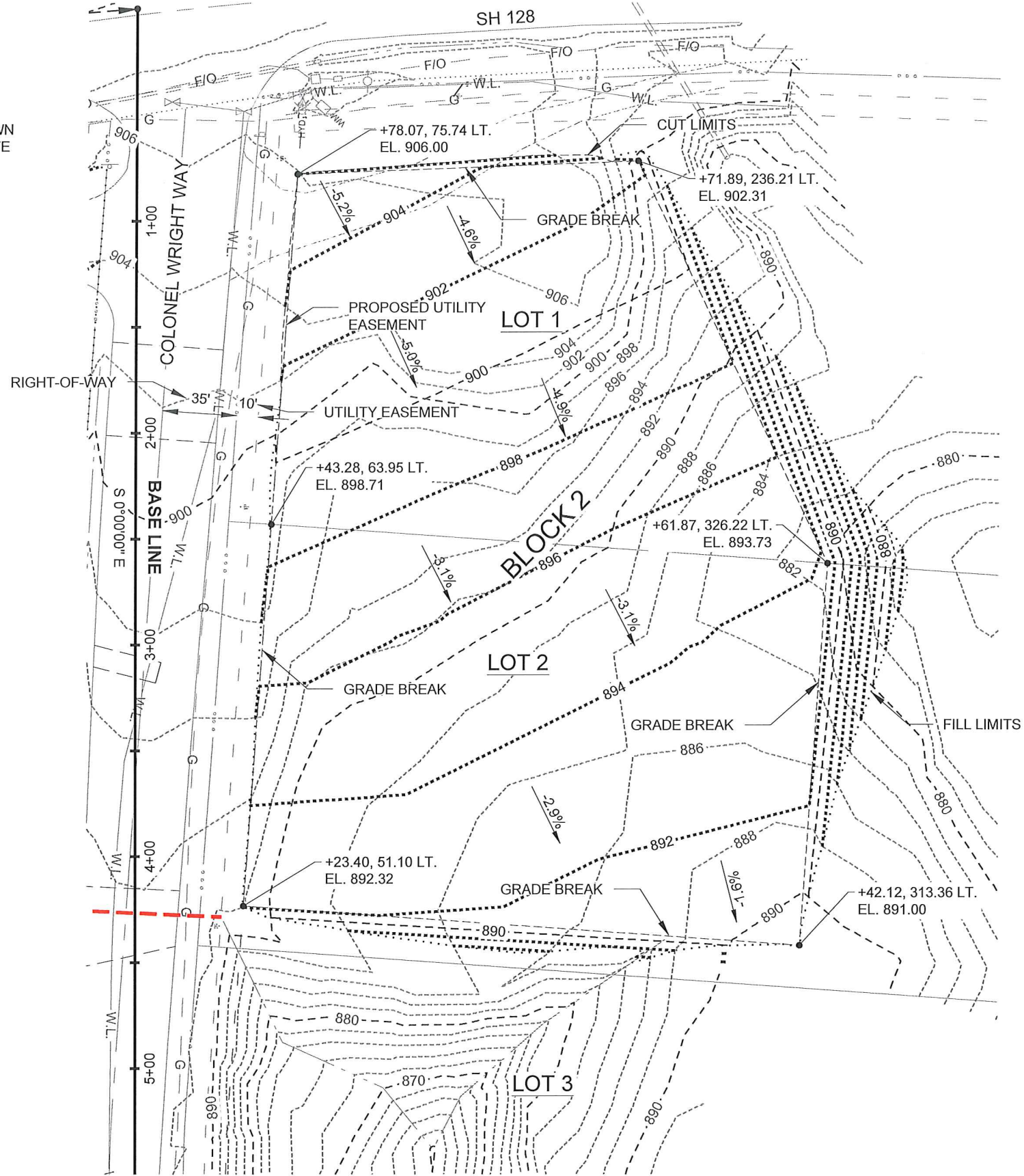
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FILE NAME	DRAWING DATE	DRAWING SCALE	SHEET
2635-GRADING.dwg	12/4/17	AS SHOWN	9 OF 19



\*NOTE:  
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PLOT DATE: 12/4/2017  
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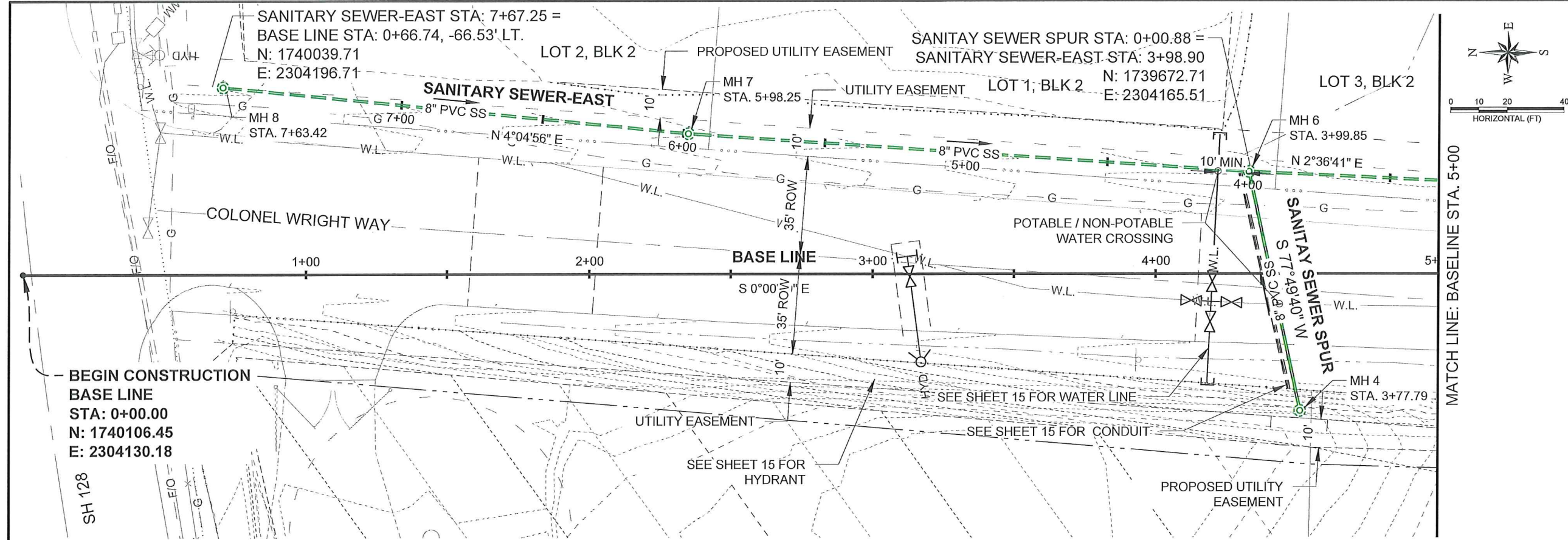
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2017 PORT GRADING PROJECT  
2017

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DRAWING DATE	12/4/17
DRAWING SCALE	AS SHOWN
SHEET	10 OF 19



PLOT DATE: 12/4/2017  
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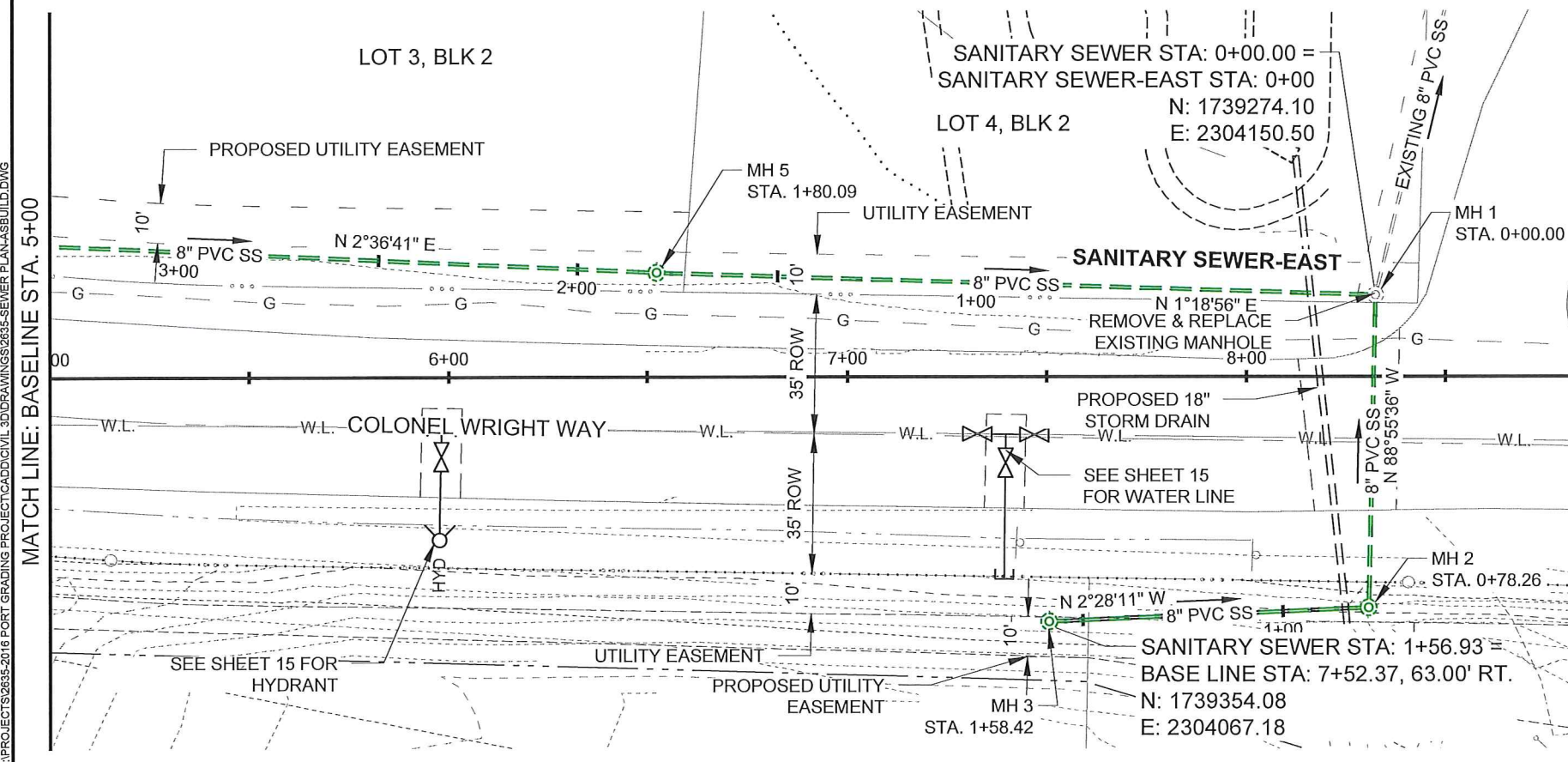


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NOTE: SEE SHEETS 12-13 FOR SANITARY SEWER PROFILES



**SANITARY SEWER NOTES**

- SEWER PIPE BEDDING MATERIALS SHALL BE IN ACCORDANCE WITH THE ISPWC TECHNICAL SPECIFICATIONS AND CITY OF LEWISTON INSPECTION CHECKLIST.
- THE CONTRACTOR SHALL MAINTAIN A 10' MINIMUM HORIZONTAL AND 18" MINIMUM VERTICAL SEPARATION BETWEEN POTABLE AND NON-POTABLE PIPES, IN ACCORDANCE WITH THE IDAPA 58.01.08.542.07b. NON-POTABLE INCLUDES SEWER, GRAVITY IRRIGATION, PRESSURE IRRIGATION AND REUSED WATER. SEE CITY STD DWG 4-1.
- SEWER PIPE SHALL BE PVC PIPE MEETING OR EXCEEDING THE REQUIREMENTS OF ASTM D3034 SDR 35 SEWER PIPE. ALL SEWER LINES SHALL BE TESTED IN ACCORDANCE WITH ISPWC STANDARDS AND CITY INSPECTION CHECKLIST.
- INSTALL SEWER SERVICE LINES. A MAXIMUM OF FIVE CONNECTIONS ARE EXPECTED. LOCATED AS DIRECTED BY ENGINEER.
- FIELD VERIFY EXISTING MANHOLE ELEVATIONS AND INVERTS AND SEWER LINE SLOPE PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL GRADE SLOPES AROUND MANHOLES AT MAXIMUM OF 2% FOR 5' FROM MANHOLE AND THEN MATCH TO EXISTING GROUND OR FINISH GRADE AT A MAXIMUM SLOPE OF 2:1.
- FIELD VERIFY GAS LINE LOCATION AND SIZE FROM SEWER STATION 7+00 TO 7+78. SHIFT SEWER LINE AND MANHOLE EAST TO AVOID CONFLICT IF NECESSARY.
- SEE CITY STD DWG 5-8 FOR MANHOLE LID ORIENTATION.

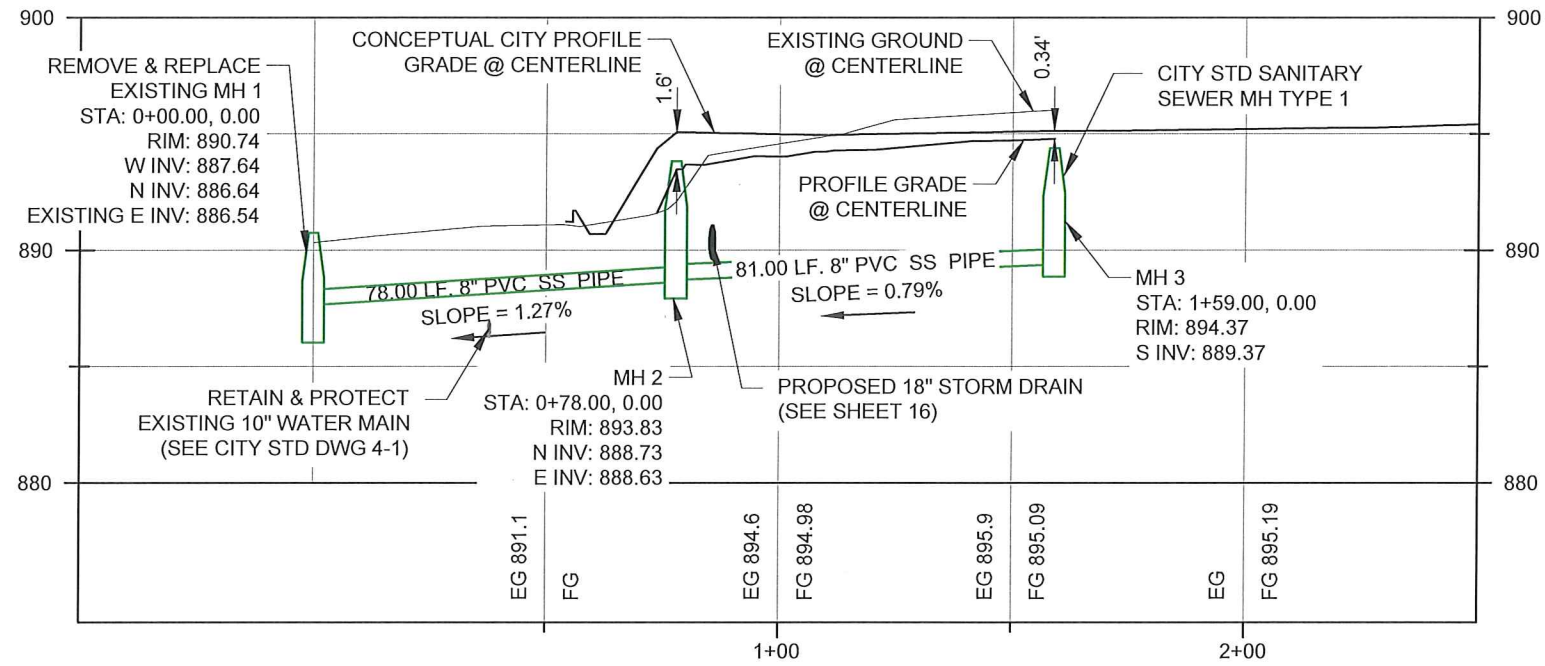
PORT OF LEWISTON  
 2017 PORT GRADING PROJECT  
 2017

SANITARY SEWER PLAN

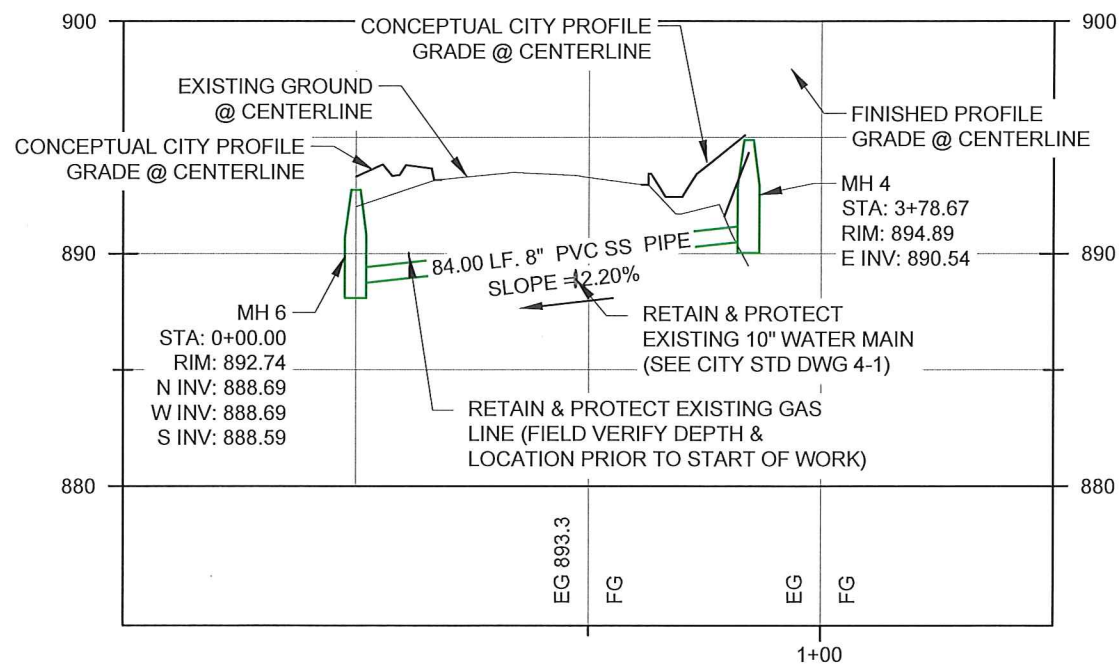
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 DESIGN CHECKED: RLH  
 DETAILED: RLH  
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 PLAN ASSEMBLING DATE: 12/4/17  
 DRAWING SCALE: AS SHOWN  
 SHEET 11 OF 19

PROFESSIONAL ENGINEER  
 REGISTERED  
 07556  
 12/04/17  
 DATE OF IDADO  
 REX L. HARDING

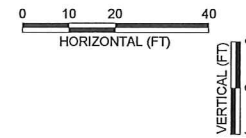


SANITARY SEWER CENTERLINE PROFILE STA: -0+50 - 2+50



SANITARY SEWER SPUR CENTERLINE PROFILE STA: -0+50 - 1+50

- NOTE:
1. USE CITY TYPE 1A MANHOLE (CITY STD DWG 5-4) FOR SHALLOW MANHOLE.
  2. IF USING SD-502, ROTATE FLAT LID T POSITION ACCESS HOLE OVER CHANNEL.



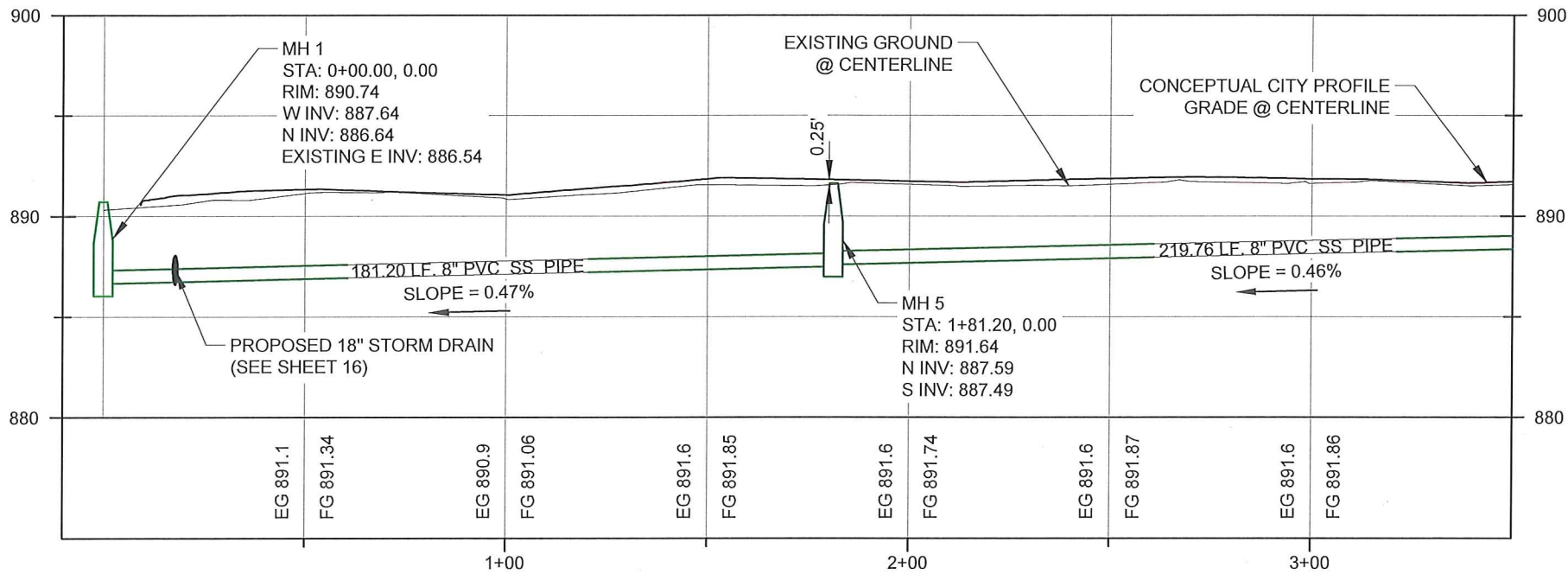
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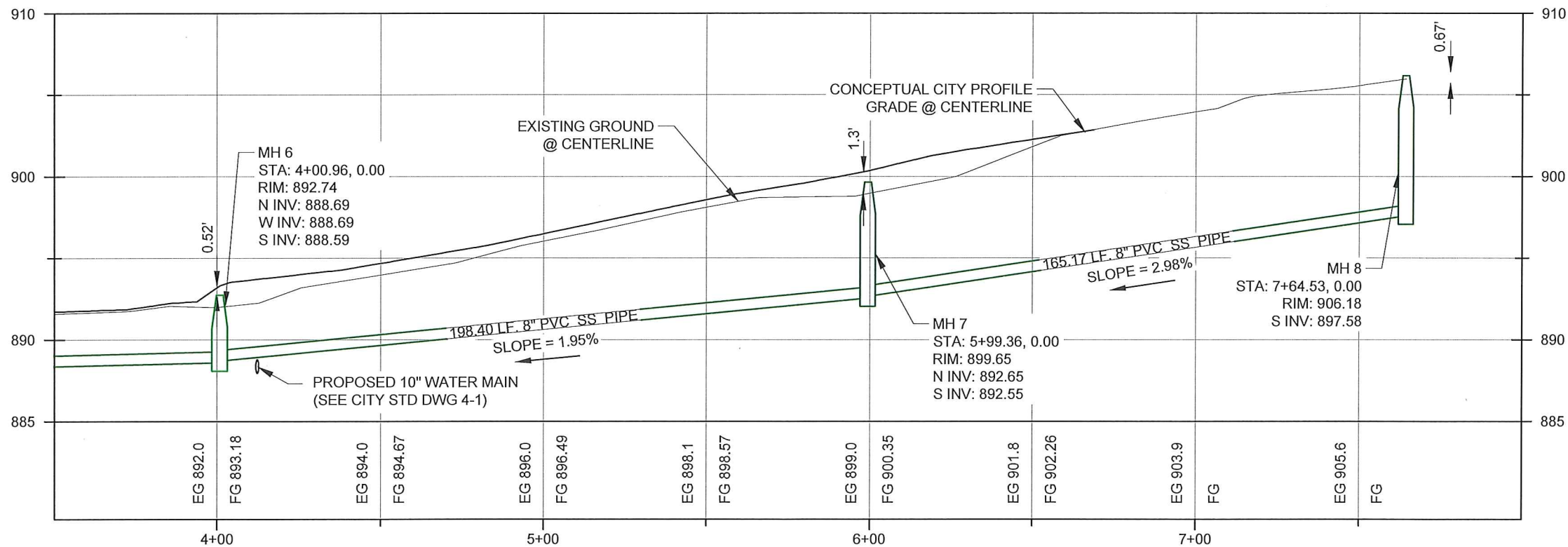
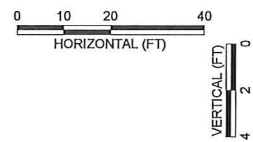
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DRAWING SCALE	AS SHOWN		
SHEET	12 OF 19		

PROFESSIONAL ENGINEER  
REGISTERED  
7558  
8/1/25/18  
STATE OF IDAHO  
REX L. HARDING

PLOT DATE: 1/25/2018  
 Z:\2015\2016 PORT GRADING PROJECT\CADD\DR02635-SEWER PLAN.DWG



SANITARY SEWER-EAST CENTERLINE PROFILE STA: -0+10 - 3+50



SANITARY SEWER-EAST CENTERLINE PROFILE STA: 3+50 - 8+00



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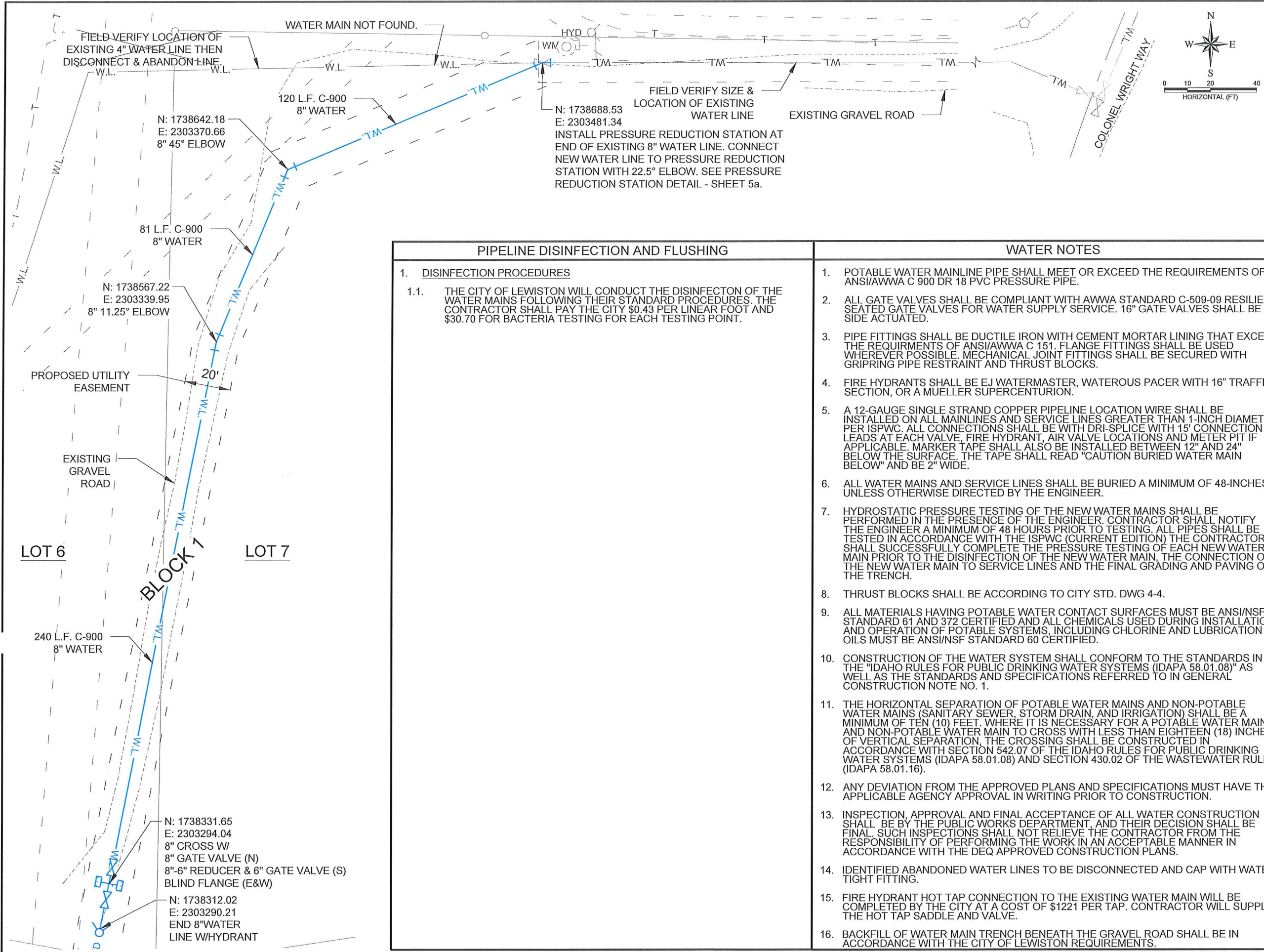
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DRAWING SCALE		AS SHOWN		SHEET		13 OF 19	

PORT OF LEWISTON  
 2017 PORT GRADING PROJECT  
 2018

EAST SANITARY SEWER PROFILE

PROFESSIONAL ENGINEER  
 REGISTERED  
 7556  
 1/25/18  
 STATE OF IDAHO  
 REX L. HARDING

PLOT DATE: 12/4/2017  
 2:\9835 2016 PORT GRADING PROJECT\CADD\DR2635-WATER PLAN.DWG



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 Fax: (208) 743-3819

**PIPELINE DISINFECTION AND FLUSHING**

1. DISINFECTION PROCEDURES

1.1. THE CITY OF LEWISTON WILL CONDUCT THE DISINFECTION OF THE WATER MAINS FOLLOWING THEIR STANDARD PROCEDURES. THE CONTRACTOR SHALL PAY THE CITY \$0.43 PER LINEAR FOOT AND \$30.70 FOR BACTERIA TESTING FOR EACH TESTING POINT.

**WATER NOTES**

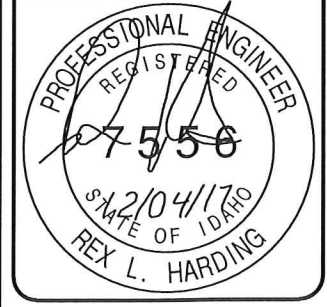
- POTABLE WATER MAINLINE PIPE SHALL MEET OR EXCEED THE REQUIREMENTS OF ANSI/AWWA C 900 DR 18 PVC PRESSURE PIPE.
- ALL GATE VALVES SHALL BE COMPLIANT WITH AWWA STANDARD C-509-09 RESILIENT SEATED GATE VALVES FOR WATER SUPPLY SERVICE. 16" GATE VALVES SHALL BE SIDE ACTUATED.
- PIPE FITTINGS SHALL BE DUCTILE IRON WITH CEMENT MORTAR LINING THAT EXCEED THE REQUIREMENTS OF ANSI/AWWA C 151. FLANGE FITTINGS SHALL BE USED WHEREVER POSSIBLE. MECHANICAL JOINT FITTINGS SHALL BE SECURED WITH GRIPRING PIPE RESTRAINT AND THRUST BLOCKS.
- FIRE HYDRANTS SHALL BE EJ WATERMASTER, WATEROUS PACER WITH 16" TRAFFIC SECTION, OR A MUELLER SUPERCENTURION.
- A 12-GAUGE SINGLE STRAND COPPER PIPELINE LOCATION WIRE SHALL BE INSTALLED ON ALL MAINLINES AND SERVICE LINES GREATER THAN 1-INCH DIAMETER PER ISPWC. ALL CONNECTIONS SHALL BE WITH DRI-SPLICE WITH 15' CONNECTION LEADS AT EACH VALVE, FIRE HYDRANT, AIR VALVE LOCATIONS AND METER PIT IF APPLICABLE. MARKER TAPE SHALL ALSO BE INSTALLED BETWEEN 12" AND 24" BELOW THE SURFACE. THE TAPE SHALL READ "CAUTION BURIED WATER MAIN BELOW" AND BE 2" WIDE.
- ALL WATER MAINS AND SERVICE LINES SHALL BE BURIED A MINIMUM OF 48-INCHES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- HYDROSTATIC PRESSURE TESTING OF THE NEW WATER MAINS SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER. CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 48 HOURS PRIOR TO TESTING. ALL PIPES SHALL BE TESTED IN ACCORDANCE WITH THE ISPWC (CURRENT EDITION) THE CONTRACTOR SHALL SUCCESSFULLY COMPLETE THE PRESSURE TESTING OF EACH NEW WATER MAIN PRIOR TO THE DISINFECTION OF THE NEW WATER MAIN, THE CONNECTION OF THE NEW WATER MAIN TO SERVICE LINES AND THE FINAL GRADING AND PAVING OF THE TRENCH.
- THRUST BLOCKS SHALL BE ACCORDING TO CITY STD. DWG 4-4.
- ALL MATERIALS HAVING POTABLE WATER CONTACT SURFACES MUST BE ANSI/NSF STANDARD 61 AND 372 CERTIFIED AND ALL CHEMICALS USED DURING INSTALLATION AND OPERATION OF POTABLE SYSTEMS, INCLUDING CHLORINE AND LUBRICATION OILS MUST BE ANSI/NSF STANDARD 60 CERTIFIED.
- CONSTRUCTION OF THE WATER SYSTEM SHALL CONFORM TO THE STANDARDS IN THE "IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS (IDAPA 58.01.08)" AS WELL AS THE STANDARDS AND SPECIFICATIONS REFERRED TO IN GENERAL CONSTRUCTION NOTE NO. 1.
- THE HORIZONTAL SEPARATION OF POTABLE WATER MAINS AND NON-POTABLE WATER MAINS (SANITARY SEWER, STORM DRAIN, AND IRRIGATION) SHALL BE A MINIMUM OF TEN (10) FEET. WHERE IT IS NECESSARY FOR A POTABLE WATER MAIN AND NON-POTABLE WATER MAIN TO CROSS WITH LESS THAN EIGHTEEN (18) INCHES OF VERTICAL SEPARATION, THE CROSSING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 542.07 OF THE IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS (IDAPA 58.01.08) AND SECTION 430.02 OF THE WASTEWATER RULES (IDAPA 58.01.16).
- ANY DEVIATION FROM THE APPROVED PLANS AND SPECIFICATIONS MUST HAVE THE APPLICABLE AGENCY APPROVAL IN WRITING PRIOR TO CONSTRUCTION.
- INSPECTION, APPROVAL AND FINAL ACCEPTANCE OF ALL WATER CONSTRUCTION SHALL BE BY THE PUBLIC WORKS DEPARTMENT, AND THEIR DECISION SHALL BE FINAL. SUCH INSPECTIONS SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF PERFORMING THE WORK IN AN ACCEPTABLE MANNER IN ACCORDANCE WITH THE DEQ APPROVED CONSTRUCTION PLANS.
- IDENTIFIED ABANDONED WATER LINES TO BE DISCONNECTED AND CAP WITH WATER TIGHT FITTING.
- FIRE HYDRANT HOT TAP CONNECTION TO THE EXISTING WATER MAIN WILL BE COMPLETED BY THE CITY AT A COST OF \$1221 PER TAP. CONTRACTOR WILL SUPPLY THE HOT TAP SADDLE AND VALVE.
- BACKFILL OF WATER MAIN TRENCH BENEATH THE GRAVEL ROAD SHALL BE IN ACCORDANCE WITH THE CITY OF LEWISTON REQUIREMENTS.

PORT OF LEWISTON  
 2017 PORT GRADING PROJECT  
 2017

SOUTH WATER LINE PLAN

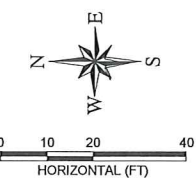
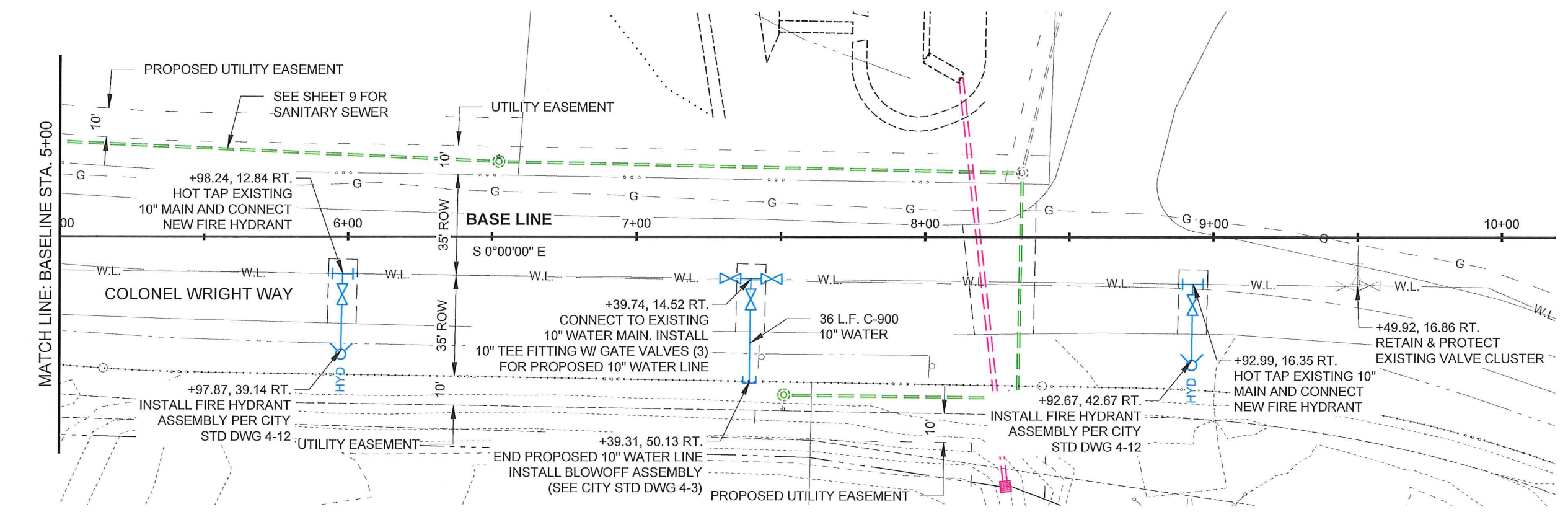
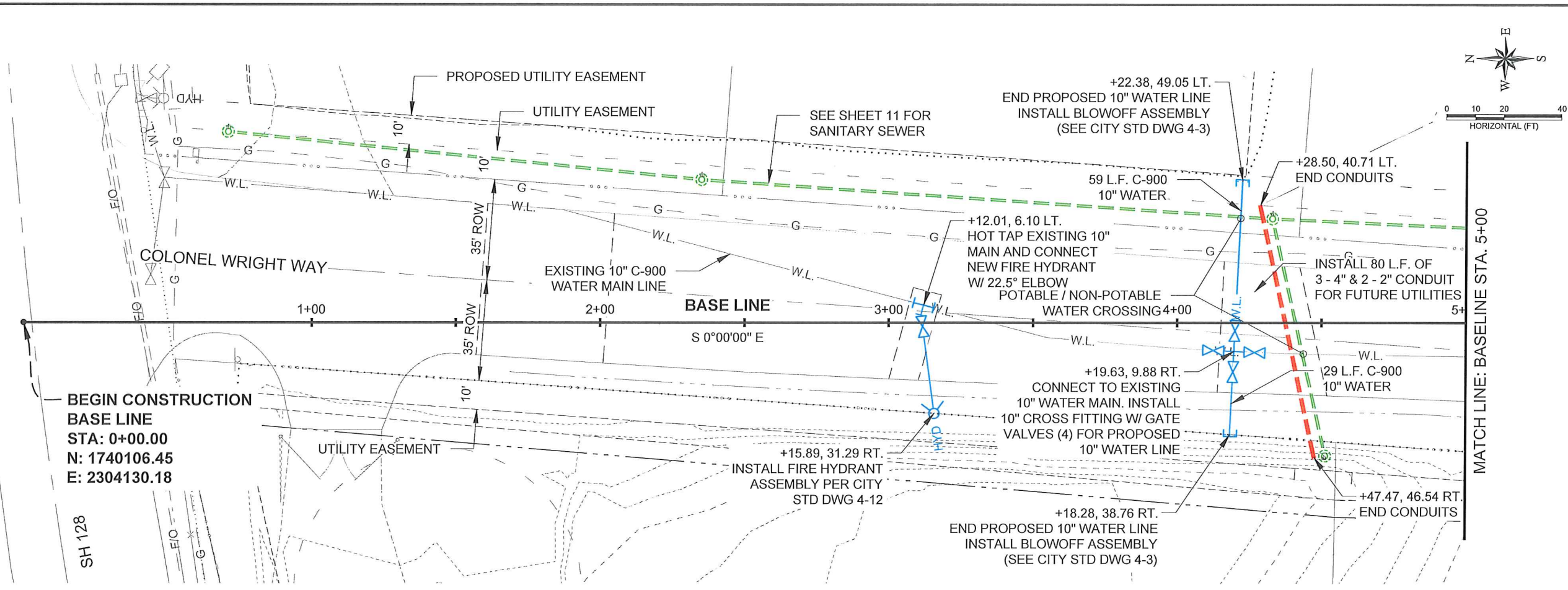
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DRAWING DATE	12/4/17
DRAWING SCALE	AS SHOWN
SHEET	14 OF 19





PLOT DATE: 12/4/2017  
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 2017 PORT GRADING PROJECT  
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 DESIGN CHECKED: RLH  
 DETAILED: WDR  
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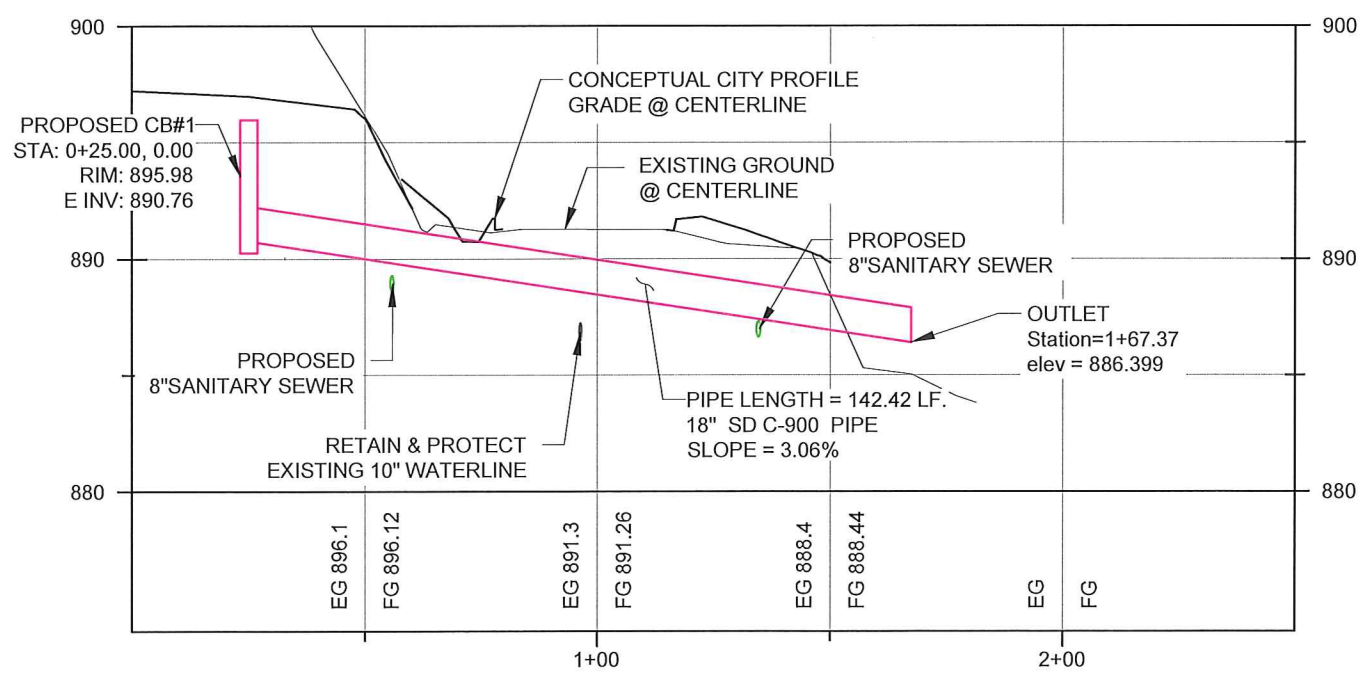
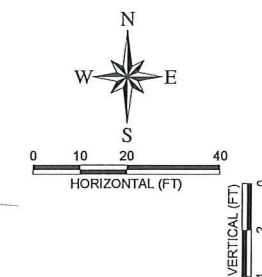
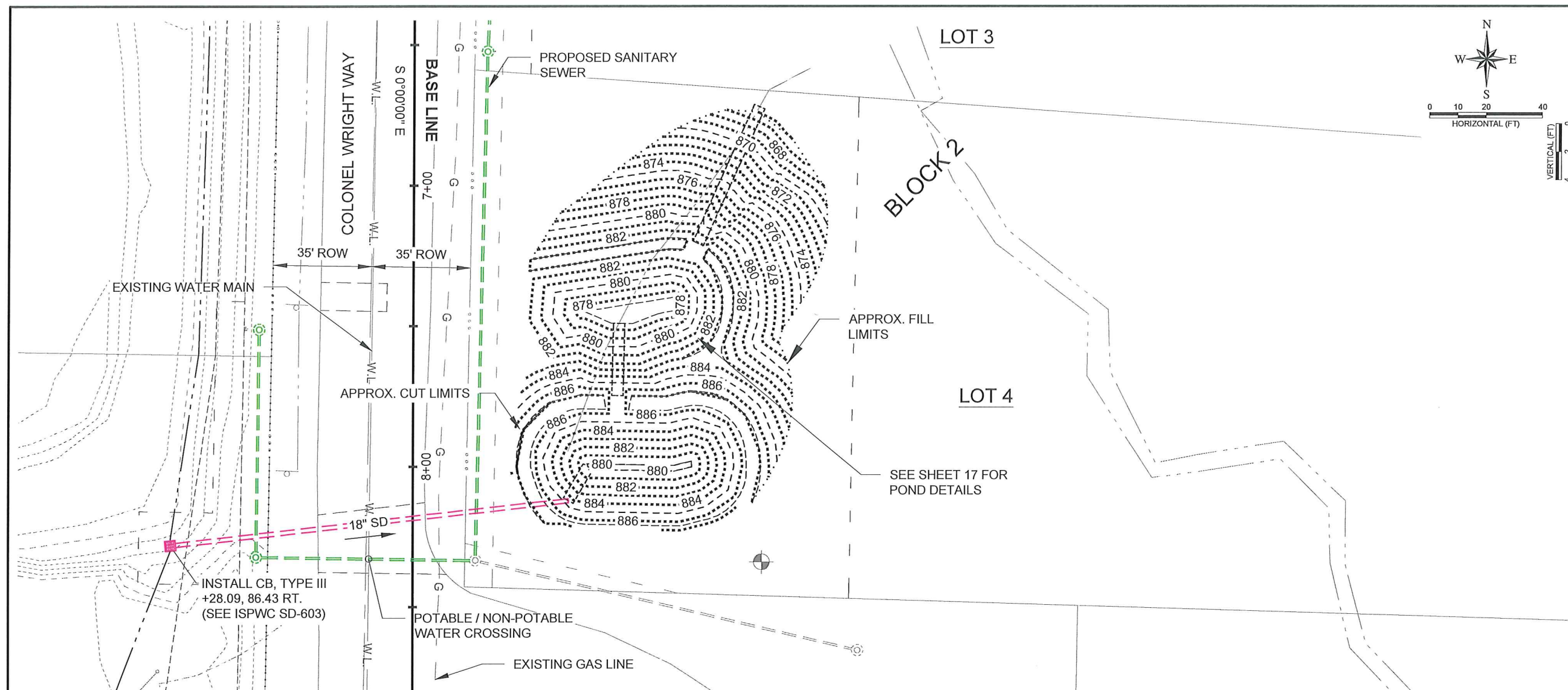
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 DRAWING DATE: 12/4/17  
 DRAWING SCALE: AS SHOWN  
 SHEET 15 OF 19

WATER LINE PLAN  
 REVISIONS

NO.	DATE	BY	DESCRIPTION
1	12/04/17	RLH	DRAWING OF RECORD

PROFESSIONAL ENGINEER  
 REGISTERED  
 7556  
 STATE OF IDAHO  
 REX L. HARDING

PLOT DATE: 12/4/2017  
 Z:\2635 2016 PORT GRADING PROJECT\CADD\DR\2635-STORM PLAN.DWG



STORM DRAINAGE CENTERLINE PROFILE STA: 0+00 - 2+50

**RIEDEL**  
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PORT OF LEWISTON  
 2017 PORT GRADING PROJECT  
 2017

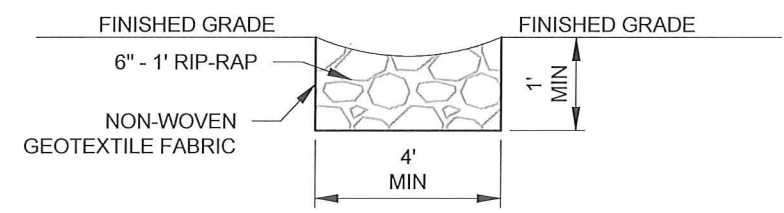
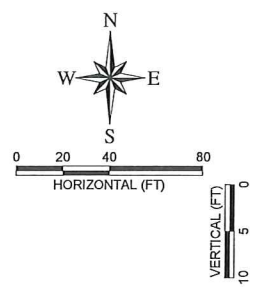
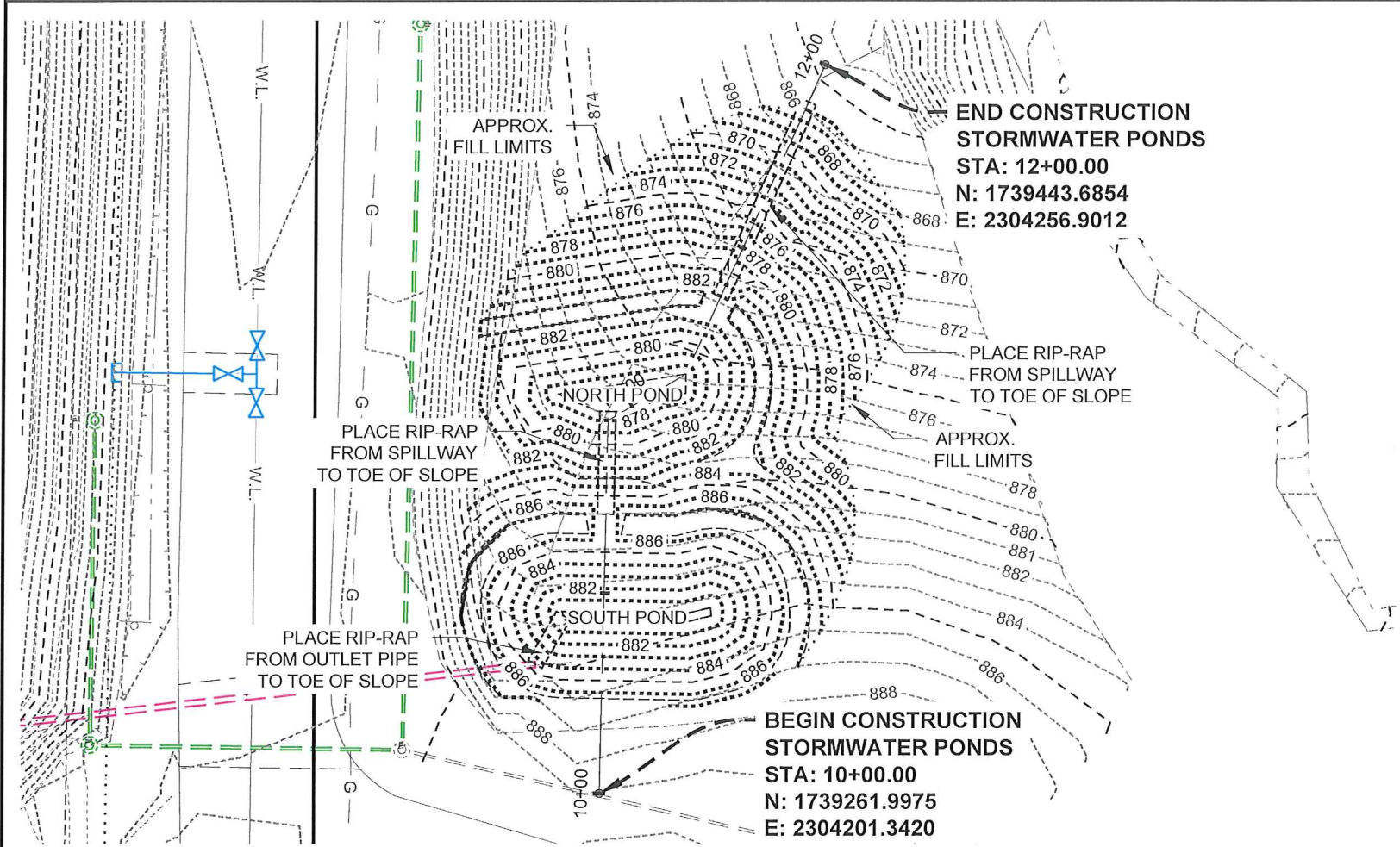
STORM PLAN

NO.	DATE	BY	DESCRIPTION
1	12/04/17	RLH	DRAWINGS OF RECORD
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DESIGNED: WDR  
 DESIGN CHECKED: RLH  
 DETAILED: WDR  
 DRAWING CHECKED: RLH

FILE NAME: 2635-STORM PLAN.dwg  
 DRAWING DATE: 12/4/17  
 DRAWING SCALE: AS SHOWN  
 SHEET 16 OF 19

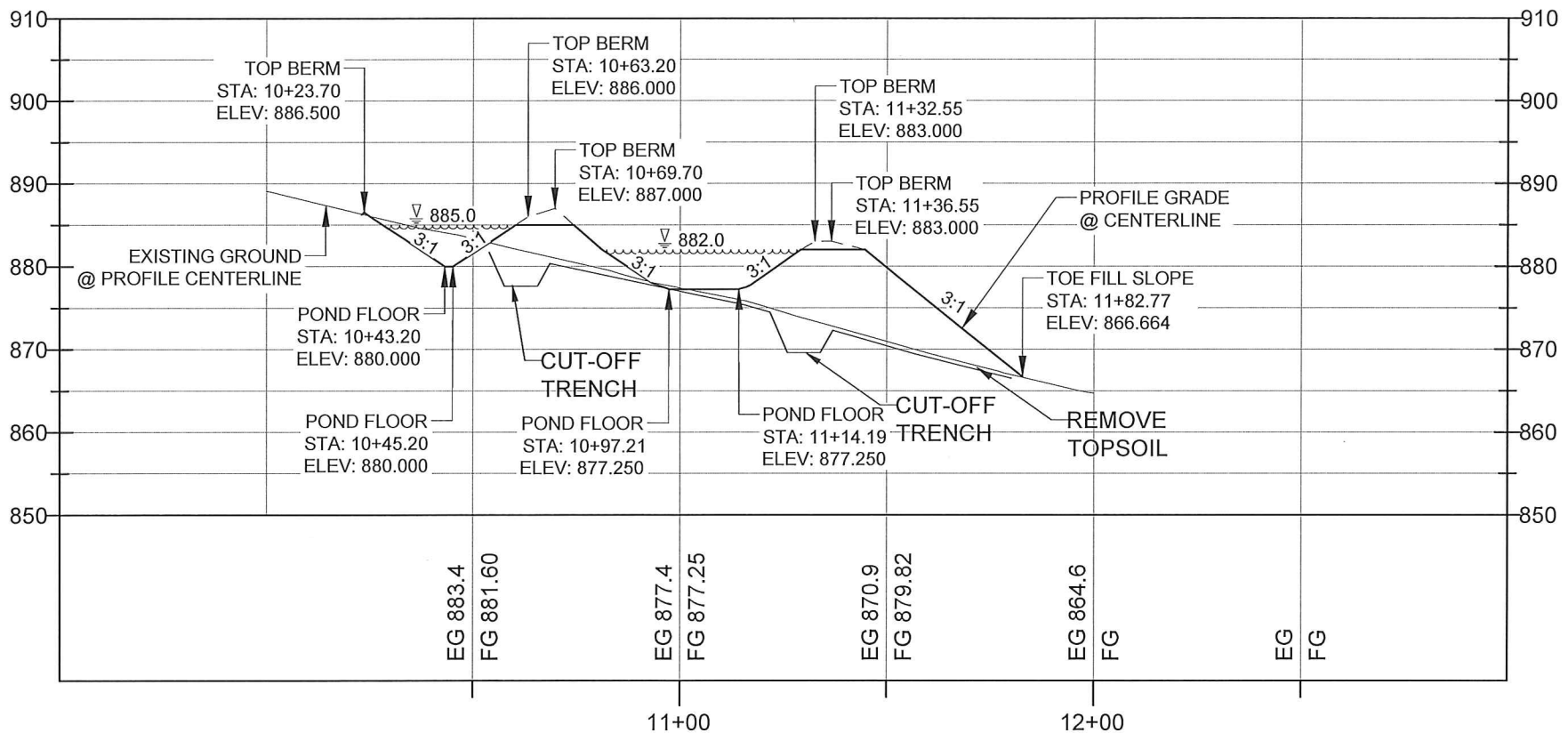
PROFESSIONAL ENGINEER  
 REGISTERED  
 07556  
 12/04/17  
 STATE OF IDAHO  
 REX L. HARDING



**RIP-RAP SPILLWAY DETAIL**  
 N.T.S.

**NORTH POND INFORMATION**  
 FLOOR ELEV: 877.75  
 TOP WATER ELEV: 882.00  
 TOP BERM ELEV: 883.00  
 FLOOR AREA: 157.26 SF  
 WATER SURFACE AREA: 2031.34 SF  
 POND VOLUME: 4,650.78 CU FT

**SOUTH POND INFORMATION**  
 FLOOR ELEV: 880.00  
 TOP WATER ELEV: 885.00  
 TOP BERM ELEV: 887.00  
 FLOOR AREA: 73.86 SF  
 WATER SURFACE AREA: 1995.12 SF  
 POND VOLUME: 5,172.45 CU FT



**STORMWATER PONDS CENTERLINE PROFILE STA: 9+50 - 13+00**

- NOTES:**
- EXCAVATION AND EMBANKMENT PER GEOTECHNICAL REPORT
  - APPROX. EARTHWORK QUANTITIES:  
 FILL VOLUME: 1363 CY  
 CUT VOLUME: 135 CY

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 2017 PORT GRADING PROJECT  
 2017

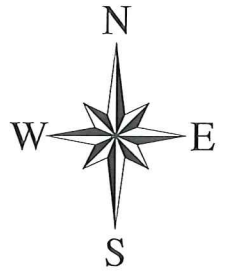
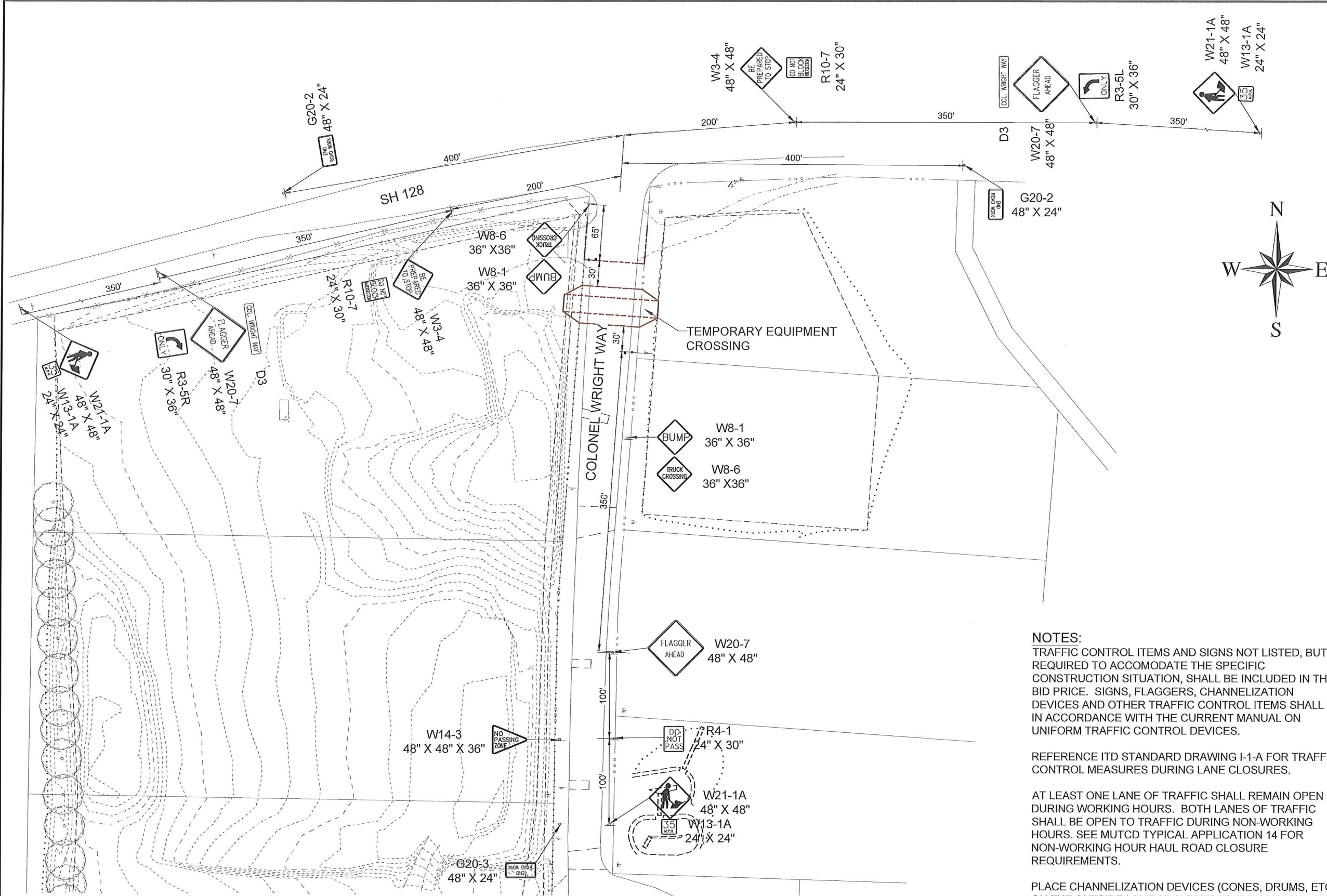
STORM POND DETAILS

NO.	DATE	BY	DESCRIPTION
1	12/04/17	RLH	DRAWINGS OF RECORD
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DESIGNED: WDR  
 DESIGN CHECKED: RLH  
 DETAILED: WDR  
 DRAWING CHECKED: RLH

FILE NAME: 2835-2016-PORT GRADING PROJECT-STORM POND.DWG  
 DRAWING DATE: 2/23/17  
 DRAWING SCALE: AS SHOWN  
 SHEET 17 OF 19

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 12/04/17  
 STATE OF IDAHO  
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**NOTES:**  
 TRAFFIC CONTROL ITEMS AND SIGNS NOT LISTED, BUT REQUIRED TO ACCOMODATE THE SPECIFIC CONSTRUCTION SITUATION, SHALL BE INCLUDED IN THE BID PRICE. SIGNS, FLAGGERS, CHANNELIZATION DEVICES AND OTHER TRAFFIC CONTROL ITEMS SHALL BE IN ACCORDANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

REFERENCE ITD STANDARD DRAWING I-1-A FOR TRAFFIC CONTROL MEASURES DURING LANE CLOSURES.

AT LEAST ONE LANE OF TRAFFIC SHALL REMAIN OPEN DURING WORKING HOURS. BOTH LANES OF TRAFFIC SHALL BE OPEN TO TRAFFIC DURING NON-WORKING HOURS. SEE MUTCD TYPICAL APPLICATION 14 FOR NON-WORKING HOUR HAUL ROAD CLOSURE REQUIREMENTS.

PLACE CHANNELIZATION DEVICES (CONES, DRUMS, ETC.) ON THE OUTSIDE LANE ADJACENT TO THE EXCAVATION AREA IN ACCORDANCE WITH THE MUTCD. PLACE APPLICABLE SIGNS (SHOULDER DROP OFF, ETC.) AND WARNING DEVICES AS CONDITIONS WARRANT DURING CONSTRUCTION.

ALL TRAFFIC CONTROL ITEMS SHALL BE INCLUDED IN ITEM (1103)

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**PORT OF LEWISTON**  
 2017 PORT GRADING PROJECT  
 2017

**TRAFFIC CONTROL PLAN**

DESIGNED		DESIGN CHECKED		REVISIONS	
NO.	DATE	BY	DESCRIPTION	NO.	DATE
	12/04/17	RLH	DRAWINGS OF RECORD		

DESIGNED	WDR	FILE NAME	2635-TRAFFIC.dwg
DESIGN CHECKED	RLH	DRAWING DATE	12/04/17
DETAILED	WDR	DRAWING SCALE	AS SHOWN
DRAWING CHECKED	RLH	SHEET	18 OF 19

PROFESSIONAL ENGINEER  
 REGISTERED  
 7556  
 STATE OF IDAHO  
 REX L. HARDING

**NOTES:**

1. THE CONTRACTOR SHALL FILE NOI PERMIT A MIN. OF 14 DAYS PRIOR TO EXCAVATION ACTIVITIES. THE NOI'S AND EPA'S ACKNOWLEDGMENT LETTERS MUST BE POSTED IN A CONSPICUOUS LOCATION AT THE JOB SITE OR AT ANOTHER LOCATION WHERE PUBLIC ACCESS IS ASSURED.

2. BMPs AND STANDARD DRAWINGS ARE TAKEN FROM IDEQ'S CATALOG OF STORM WATER BEST MANAGEMENT PRACTICES FOR IDAHO CITIES AND COUNTIES. COPIES CAN BE OBTAINED FROM THE ENGINEER'S OFFICE. THE FOLLOWING BMPs ARE REFERENCED AND MADE A PART OF THIS PLAN:

- BMP #5a - STABILIZATION OF CONSTRUCTION ENTRANCE AND ROADS
- BMP #7 - DUST CONTROL
- BMP #11 - VEHICLE/EQUIPMENT WASHING AND MAINTENANCE
- BMP #15 - MULCHING
- BMP #20 - TOPSOILING (ITEM SP-2800.1)
- BMP #21 - SEEDING (ITEM 206.4.1.B.1)
- BMP #25 - SLOPE ROUGHENING
- BMP #28 - CHANNEL LINERS
- BMP #31 - INLET PROTECTION
- BMP #32 - CHECK DAMS (ITEM 1006.4.I.D.1)
- BMP #36 - SILT FENCE (ITEM 1003.4.I.C.1)
- BMP #42 - PERIMETER DIKE/SWALE (ITEM 1004.4.I.C.1)

3. BMPs SHALL BE INSPECTED DAILY. ANY DEFICIENT OR DAMAGED BMPs SHALL BE REPAIRED IMMEDIATELY.

4. THE CONTRACTOR SHALL INSTALL NECESSARY BMPs TO PROTECT WORK AREAS AND ADJUST BMPs AS NEW WORK AREAS ARE STARTED.

5. AFTER TOPSOIL HAS BEEN PLACED, THE CONTRACTOR SHALL APPLY SEEDING ON ALL DISTURBED AREAS USING WET OR DRY APPLICATION.

6. SOIL DISTURBANCE AND STABILIZATION AREAS SHALL BE IN COMPLIANCE WITH THE 2017 CONSTRUCTION GENERAL PERMIT PART 2.2.14.




7. STREET SWEEPING IS REQUIRED ON A WEEKLY BASIS OR AS REQUESTED BY THE ENGINEER.

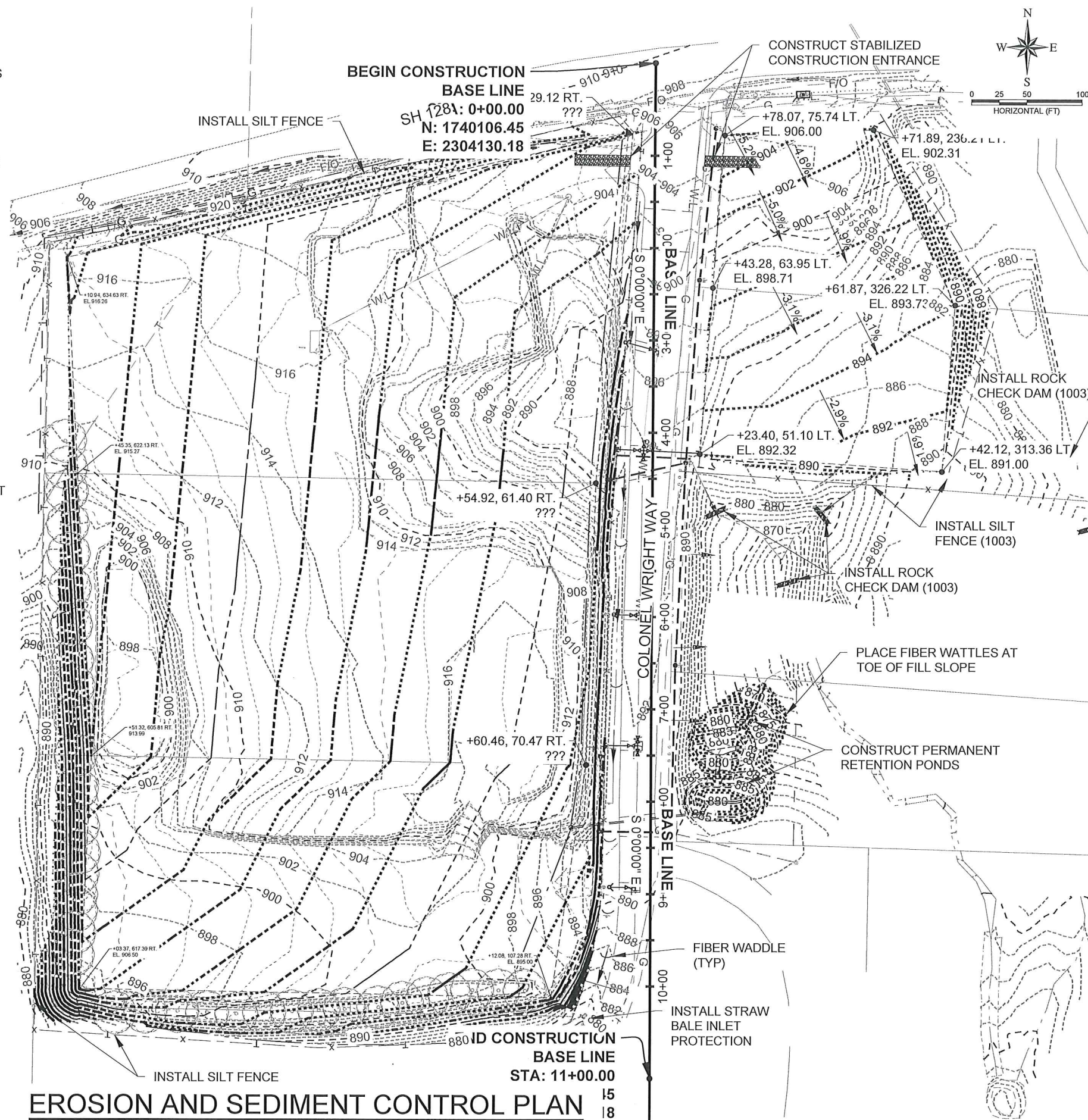
8. SLOPE ROUGHENING (BMP #25) WILL BE REQUIRED ON ALL SLOPES STEEPER THAN 3:1 AND GREATER THAN 5 FEET VERTICAL HEIGHT.

9. DUST CONTROL (BMP #7) WILL BE REQUIRED ON ALL DISTURBED AREAS OF THE SITE AT REGULAR INTERVALS. SPRINKLING WILL BE REQUIRED MORE FREQUENTLY DURING HOT, DRY, AND WINDY CONDITIONS, AND ON HAUL ROADS.

10. CONTRACTOR SHALL NOT DISTURB EXISTING GRASS/VEGETATION LOCATED OUTSIDE THE GRADING SITE CONSTRUCTION.

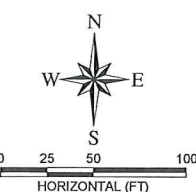
**LEGEND**

- T - - - - X - - - - SILT FENCE
-  ROCK CHECK DAM
-  FIBER WADDLE
-  INLET PROTECTION



**EROSION AND SEDIMENT CONTROL PLAN**

15  
18



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PORT OF LEWISTON  
2017 PORT GRADING PROJECT  
2017

STORM WATER POLLUTION PREVENTION PLAN

DESIGNED		DESIGN CHECKED		DRAWING CHECKED		FILE NAME		DRAWING DATE		DRAWING SCALE		SHEET	
NO.	DATE	BY	RLH	NO.	DATE	BY	RLH	2835-SWPPP.dwg	12/04/17	AS SHOWN	18	OF	19
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PROFESSIONAL ENGINEER  
REGISTERED  
7556  
12/04/17  
DATE OF IDAHO  
REX L. HARDING

PLOT DATE: 12/04/2017  
Z:\2835-2016 PORT GRADING PROJECT\CADD\2835-SWPPP.DWG