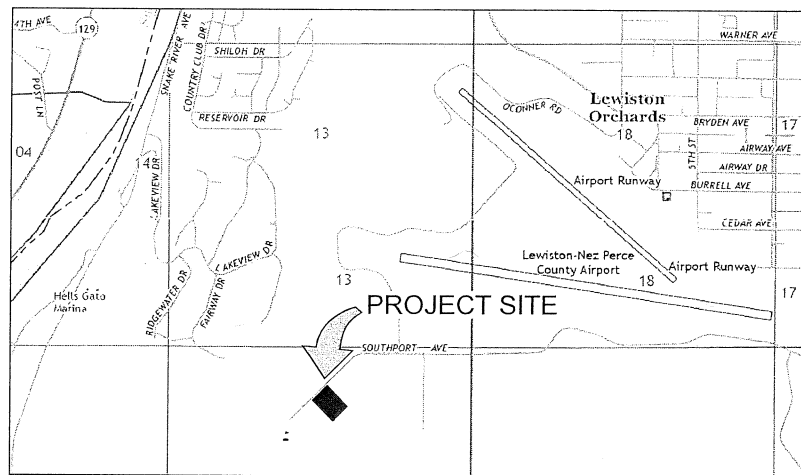


P-KAY METAL - SOUTHPORT PROJECT

CIVIL CONSTRUCTION PLANS



LEGEND

	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		EXISTING POWER POLE
	PROPOSED EASEMENT LINE		EXISTING CONTOUR LINE
	PROPERTY LINE		EXISTING SPOT ELEVATION
	PROJECT BOUNDARY		EXISTING UTILITY
	SILT FENCE		

CITY INSPECTION CHECKLIST

ITEM	MATERIAL	TEST / STANDARD	ACCEPTANCE	TEST FREQUENCY	INSPECTOR/CO.	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)	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)			
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 WDOTM41-10 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 8" 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 WDOTM41-10 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 WDOTM41-10 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 EASEMENT / NON-TRAFFICKED AREA	Native Soil Free of Unsuitable Material w/ 4" Max Particle Size (8" Max. Lift)	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)			
STRUCTURAL FILLS	As Spec'd by Engineer	As Spec'd by Engineer		As Spec'd by Engineer			
2. STORM DRAIN MAINS							
PIPE	High Density 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			Certified & Visual by City		
VIDEO INSPECTION	N/A			Public Works Policy No 2012-2			
3. WATER MAINS							
PIPE	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	Per Manufacturer's Instructions		Per Plan			
JOINTS (Deflection/Proper Pipe Embedment)	N/A	Per Manufacturer's Instructions		Each Joint			
THRUST BLOCKS	Concrete, 2500 PSI Mix	Per Approved Plans/ City 568 Dwg # 4.4		Each Joint	Certified & Visual by City		
HYDROSTATIC PRESSURE	N/A	2 Hrs. NTE Allowable Leakage Per AWWA C-900, AWWA C-905		150% Working Pressure OR 150% of the Working Pressure in the Water System			
CHLORINATION/BACTERIA	N/A	AWWA C-851		Bacterial Testing, two negative testing samples 24 hours apart	City of Lewiston		
4. WASTEWATER MAINS							
PIPE	PVC, SDR 35	ASTM 9034		N/A			
ALIGNMENT AND GRADE	N/A	Per Manufacturer's Instructions		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 Crimps, No Bellies > 0.02'	Public Works Policy No 2012-2	Between Access Holes			
5. CONCRETE CURB, GUTTER & SIDEWALK							
CONCRETE	CL45 5 20# - Approved Mix Design Required with Min Cement Content of 560 Lb/CY, Max Water/Cement Ratio of .45, a WRA, and an AEA	AASHTO T 239 Compressive Strength for Concrete AASHTO T 119 Slump of Hydraulic Cement Concrete AASHTO T 152 Air Content of Freshly Mixed Concrete AASHTO T 308 Temperature of Freshly Mixed Concrete WAQTC T-2 Sampling Freshly Mixed Concrete	Min 28 Day Compressive Strength = 5000 psi, Water/Cement Ratio shall be 0.5 min Max Slump = 5 inches Air Content Percent = 6.0% +/- 1% 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 WDOTM41-10 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	-1.0 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	Flatted, Uniform, Light Broom Finish	Entire Surface Area			
6. ASPHALTIC CONCRETE PAVING							
HOT MIX ASPHALT	ITD Class II 1/2" - Approved Mix Design Required (2004 ITD Spec 405, 702, and 703.05)	AASHTO T 188, Method C, Specific Gravity of HMA AASHTO T 209, Test for Maximum Specific Gravity WAQTC T-8, In-Place Density of Bituminous Mixes	92%-95% Max. Theoretical Density	1 Test Per 750 Ton-Min 1 Test			
CRUSHED AGGREGATE BASE COURSE*	Same test requirement as under 5. Concrete Curb, Gutter & Sidewalk						
7. EROSION & SEDIMENT CONTROLS							
	Per Approved Plan	Per Plan and Manufacturer's Instructions		1/4W or After Every Rainfall			
8. TRAFFIC CONTROL							
	Per Approved Plan	Current Adopted MUTCD/ATSSA		Continuous			
9. RECORD DRAWINGS							
10. ENGINEER'S CERTIFICATION	AutoCAD Elect File, Bond Paper, 22"x 34" Min Size	City Checklist		Before Public Improvements Accepted			
Date Last Revised September 2016							

CONTACTS

OWNER
P. KAY METAL, INC.
2448 EAST 25TH STREET
LOS ANGELES, CA 90058

GEOTECHNICAL SERVICES
ALLWEST TESTING & ENGINEERING, LLC
2705 E. MAIN STREET
LEWISTON, IDAHO

UTILITY PROVIDERS
SANITARY SEWER: CITY OF LEWISTON (Bryan Lacy) 208-816-1285
WATER: CITY OF LEWISTON (Bryan Lacy) 208-816-1285
POWER: AVISTA (Colby Witters) 509-780-1475
TELECOM: CENTURY LINK (Julio Mendez) 208-798-8380
CABLE T.V.: CABLEONE (Tom Donahue) 208-791-5032



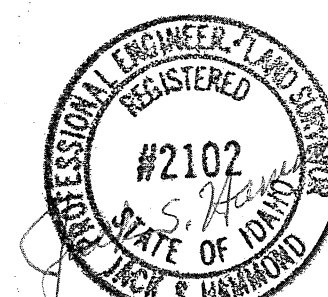
Know what's below.
Call before you dig.

PUBLIC IMPROVEMENT QUANTITIES

7b.	18" Dia. HDPE Storm Sewer Pipe	150 L.F.
8a.	8" Dia. PVC Sanitary Sewer Pipe	420 L.F.
9a.	4" Dia. San. Sewer MH	12 V.F.
10a.	8" Dia. C900 PVC Water Main	1500 L.F.
10b.	10" Dia C900 PVC Water Main	740 L.F.
11a.	8" Gate Valves	4 Each
11b.	10" Gate Valves	2 Each
11c.	8" PIV Valves	2 Each
15.	Fire Hydrants	5 Each

ON-SITE IMPROVEMENT QUANTITIES

1.	Mobilization	Lump Sum
2a.	Project Earthwork	Lump Sum
2b.	Bldg. #2 Pad Rock Excavation	Lump Sum
3.	8" Crushed Base Course	18,900 Sq. Yds
4a.	3" A.C. Pavement	13,000 Sq. Yds
4b.	Street Trench Pavement Patching	90 Sq. Yds
5.	Conc. "High Back" Curb & Gutter	2375 L.F.
6.	Catch Basins	8 Each
7a.	12" HDPE Storm Sewer Pipe	510 L.F.
7b.	18" HDPE Storm Sewer Pipe	620 L.F.
8b.	6" Sanitary Sewer Services	215 L.F.
9b.	Storm Sewer MH	27 V.F.
12a.	5.0' Conc. Sidewalk	5300 S.F.
12b.	Pedestrian Ramps	4 Each
13.	Utilities Trenching	400 L.F.
14.	Utilities Conduit	Allowance
16.	Water Services	2 Each
17a.	6" Concrete Valley Gutter	Lump Sum
17b.	Concrete Retaining Wall #1	Lump Sum
17c.	Concrete Retaining Wall #2	Lump Sum
17d.	Ecology Block Retaining Wall	Lump Sum
17e.	Concrete Fretlift Ramp (12x40')	Lump Sum
17f.	Concrete Fretlift Ramp (16x50')	3 Each
17g.	Bldg #1 Exterior Stairs/Landings	Lump Sum
17h.	Truck Scale Concrete Pit	5 Each
18.	Stormwater Infiltration Basin	Lump Sum
19.	Maint. & Protection of Traffic	Lump Sum
20.	Fabricated Bollards	20 Each
21.	Constr. Phase Stormwater Management	Lump Sum



SHEET INDEX

- C1.0 GENERAL NOTES & DETAILS
- C2.0 EXISTING SITE CONDITIONS
- C3.0 CONSTRUCTION EROSION & SEDIMENT CONTROL PLAN
- C4.0 SITE DEVELOPMENT PLAN
- C5.0 SITE GRADING PLAN
- C6.0 SITE X-SECTIONS - PLAN VIEW
- C7.0 SITE X-SECTIONS
- C7.1 SITE X-SECTIONS
- C7.2 SITE X-SECTIONS

- C7.3 SITE X-SECTIONS
- C8.0 SANITARY SEWER PLAN & PROFILE
- C9.0 STORM SEWER "A" PLAN & PROFILE
- C9.1 STORM SEWER "B" PLAN & PROFILE
- C9.2 STORM SEWER "C" PLAN & PROFILE
- C10.0 STANDARD DRAWINGS
- C10.1 " "
- C10.2 " "
- C10.3 " "

04-22-16 BID/REVIEW SET



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

SHEET

60

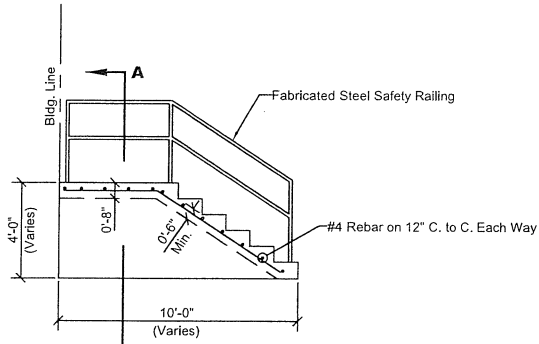
P-KAY METAL - SOUTHPORT PROJECT

SOUTHPORT AVENUE
LEWISTON, IDAHO

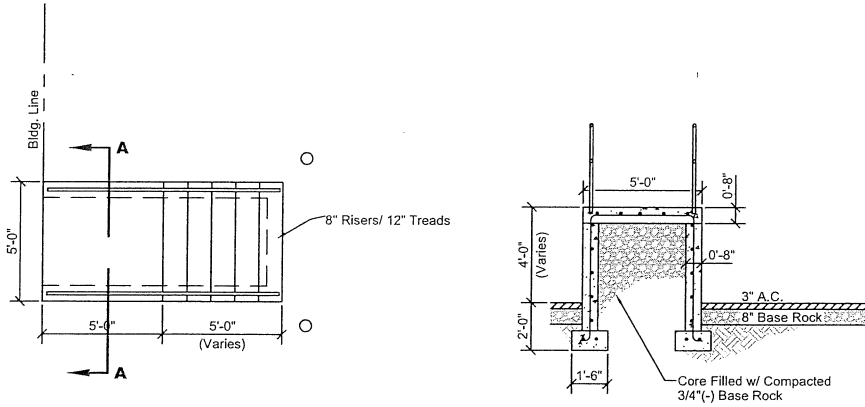
REVISION	DATE	DESCRIPTION	CHECKED	APP'D.
A	03-28-16	Final Estimating Rev.	JSH	
B	04-22-16	Revised as per City Review Comments dated 3/23/16		



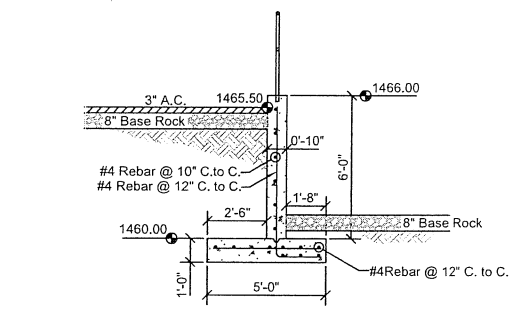
SCALE	1"=30'
DRAWN BY	MEE
CHECKED BY	JSH
DATE	03-25-16
JOB #	1605
SHEET	CO
DRAWING #	1605-C0



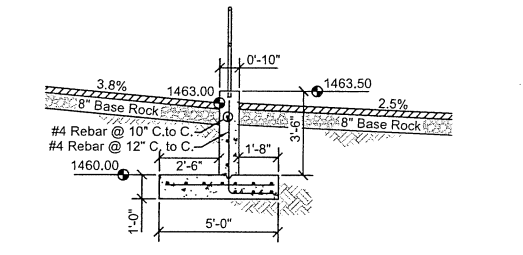
TYPICAL STAIRS DETAIL (A)
NO SCALE 1605-C4.0



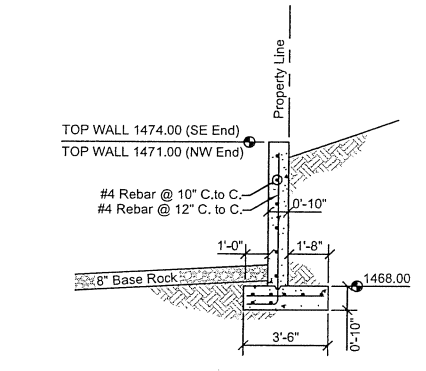
SECTION A-A



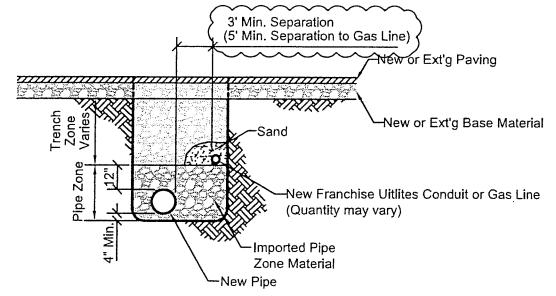
BLDG #1 W. RETAINING WALL (B)
NO SCALE 1605-C4.0



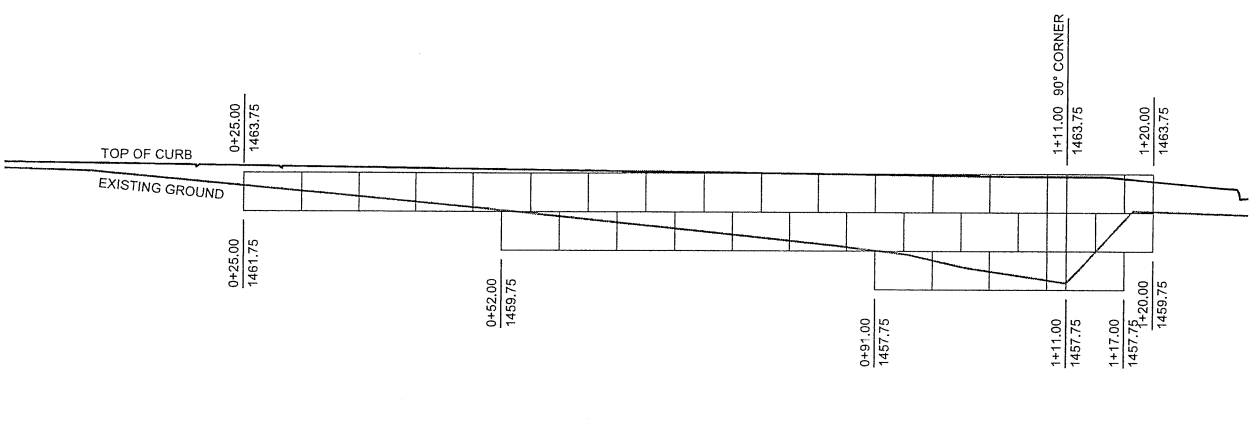
BLDG #1 W. RETAINING WALL (C)
NO SCALE 1605-C4.0



BLDG #2 E. RETAINING WALL (D)
NO SCALE 1605-C4.0

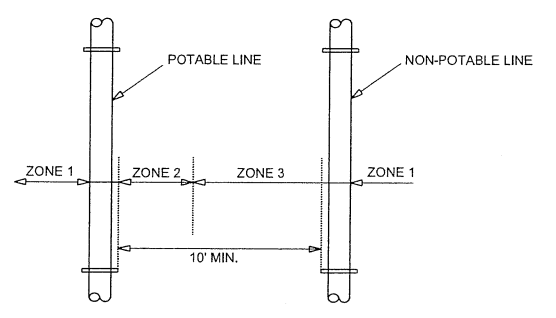


COMMON UTILITY TRENCH (E)
NO SCALE 1605-C4.0



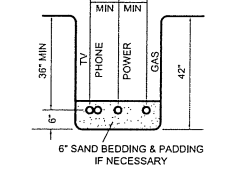
ECOLOGY BLOCK RETAINING WALL (F)
NO SCALE 1605-C4.0

LINE SEPARATIONS

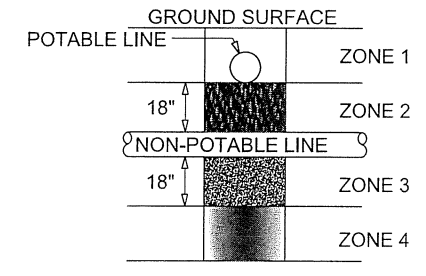


- ZONE 1: (MORE THAN 10 FEET APART)**
- ZONE 2: (FROM 6 TO 10 FEET APART)**
- * Potable and Non-Potable mains separated by at least 6 feet at outside walls and
 - * Potable main higher in elevation than Non-Potable mains and
 - * Non-Potable mains constructed to with Potable water class pipe and pressure tested for water-tightness.
- Zone 3: (CLOSER THAN 6 FEET APART)**
- * For Mains and Services, Design Engineer to submit data to Department for review and approval that this installation will protect public health and environment and non-potable line constructed with potable water class pipe.

FRANCHISE UTILITIES TRENCH DETAIL



LINE CROSSINGS



- ZONE 1:**
A) Potable Water and Non-potable Mains and Service Lines must be separated by at least 18 inches and
B) One full, uncut length of Non-Potable pipe must be centered so that the joints are as far as possible from the crossing.
- ZONE 2:** Potable line < 18" over the top of Non-Potable line (Main and Services).
A) One full, uncut length of Non-Potable Water pipe must be centered on the crossing so that the joints are as far as possible from the Non-Potable line and either B)
Non-Potable line must be constructed to Potable water pipe standards and pressure tested for water tightness for a horizontal distance of 10 feet on both sides of crossing,
or C)
Non-Potable or potable line must be cased in a larger diameter carrier pipe for a horizontal distance of 10 feet on both sides of the crossing, with no joints.
- ZONE 3:** Same requirements as Zone 2 except the Non-Potable line must also be supported above the crossing to prevent settling.
- ZONE 4:** Same requirements as Zone 1 except the Non-potable line must also be supported above the crossing to prevent settling.
- Sewage mains shall have at least eighteen inches of clearance from Potable Water mains and Zones 2 and 3 placements are prohibited. Separation requirements also apply to Potable and Non-Potable service lines controlled by the system owner and extending to the property line, service meter, or cleanout. Refer to IDAPA 58.1.08.542.07: Idaho Rules for Public Drinking Water Systems and IDAPA 58.01.16.430.0 Idaho Wastewater Rules.

- NOTES:**
- ALL EARTHWORK SHALL BE COMPACTED TO 95% OF AASHTO T-99 PROCTOR VALUE.
 - ALL POTABLE WATER LINES RUNNING FROM MAIN TO METERS WILL BE 1" AND METERS WILL BE 3/4" TYP.
 - SANITARY SEWERS SHALL HAVE 3.0' MIN. COVER & SERVICE LATERALS SHALL HAVE 2.0' MIN. GRADE. STORM DRAINS SHALL HAVE 2.0' MIN. COVER
 - ALL WORK DONE WITHIN CITY RIGHT OF WAY TO BE DONE IN ACCORDANCE WITH CITY STANDARDS.
 - WATER MAIN PIPING, VALVES, FIRE HYDRANTS AND WATER METERS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH CITY OF LEWISTON STANDARDS.
 - SANITARY SEWER PIPING AND MANHOLES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH CITY OF LEWISTON STANDARDS.
 - VIDEO INSPECTION OF WASTEWATER MAINS REQUIRED; SEE PUBLIC WORKS POLICY # 2012-2
 - ALL AVISTA CONDUITS WILL BE SCHEDULE 40 GRAY ELECTRICAL CONDUIT (LARGE SWEEPS, LONG COUPLERS)
 - A RIGHT-OF-WAY PERMIT SHALL BE OBTAINED THROUGH THE PUBLIC WORKS DEPARTMENT PRIOR TO ANY WORK WITHIN PUBLIC RIGHT-OF-WAY.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UNDERGROUND UTILITIES AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL DAMAGES AT NO ADDITIONAL COST TO THE OWNER. THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THE PROJECT DRAWINGS ARE APPROXIMATE AND BASED ON EXISTING RECORDS AND FIELD SURVEYS. THE NUMBER AND LOCATIONS OF ALL UNDERGROUND UTILITIES SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY. FOR YOUR SAFETY, STATE LAW REQUIRES THAT THE CONTRACTOR SHALL CALL 811 "CALL BEFORE YOU DIG" FOR UTILITY FIELD LOCATIONS PRIOR TO COMMENCING EXCAVATION ON SITE. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE RELEVANT UTILITY COMPANIES
 - SITE DISTANCES FOR ABUTTING PROPERTIES, DRIVEWAYS AND INTERSECTIONS SHALL BE MAINTAINED.
 - ALL CONSTRUCTION NOT SPECIFICALLY MENTIONED OR SHOWN SHALL CONFORM TO CITY ORDINANCES AND STANDARD DRAWINGS & TECHNICAL SPECS.
 - 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.
 - UTILITIES INSTALLATION INSPECTION: PROJECT ENGINEER AND CITY INSPECTION STAFF ARE RESPONSIBLE FOR INSPECTION OF UTILITIES DURING INSTALLATION.
 - FINAL PROJECT ACCEPTANCE REQUIRES THAT ALL DISTURBED ROW BE STABILIZED (INCLUDING AREAS THAT CONTRIBUTE RUNOFF TO THE ROW).

APPD.	
CHECKED	JSH
REVISION	
DESCRIPTION	
DATE	04-22-16
BY	Revised as per City Review Comments dated

REGISTERED PROFESSIONAL ENGINEER AND SURVEYOR

JAMES S. SHAW

#2102

STATE OF IDAHO

3/23/16

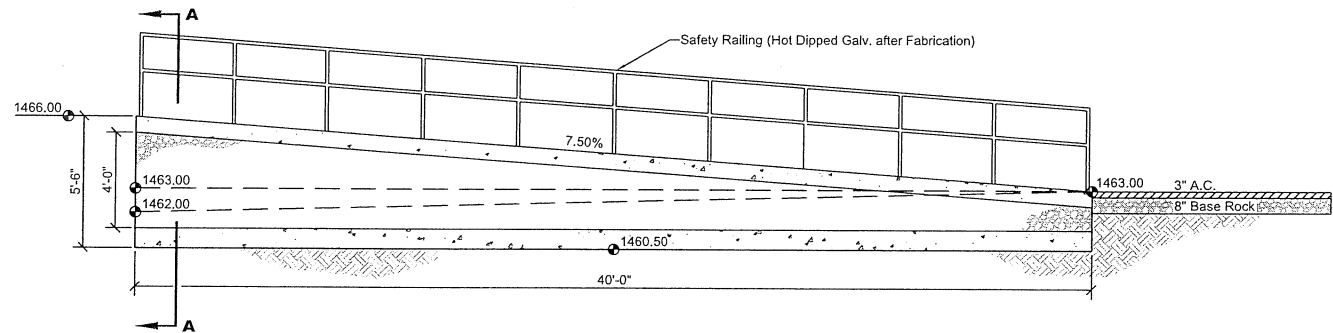
SHEET SIZE	D
DRAWN BY	MEE
CHECKED BY	JSH
DATE	03-25-16
JOB #	1605
SHEET	C1.0
DRAWING #	1605-C1.0

**P-KAY METAL - SOUTHPORT PROJECT
GENERAL NOTES & DETAILS
SOUTHPORT AVENUE
LEWISTON, IDAHO**

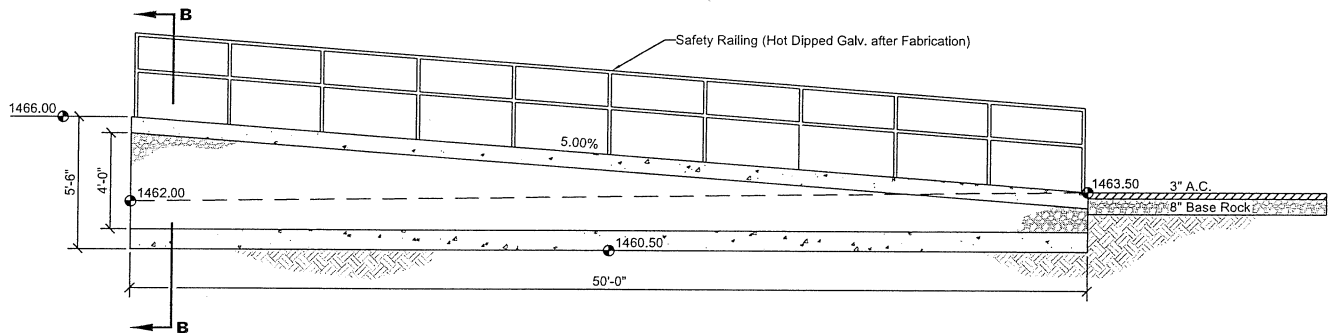
HEDCO

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

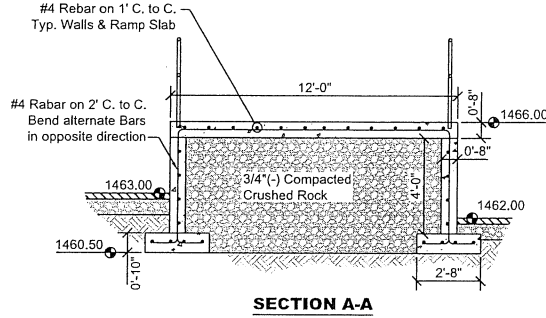
SHEET **C1.0**



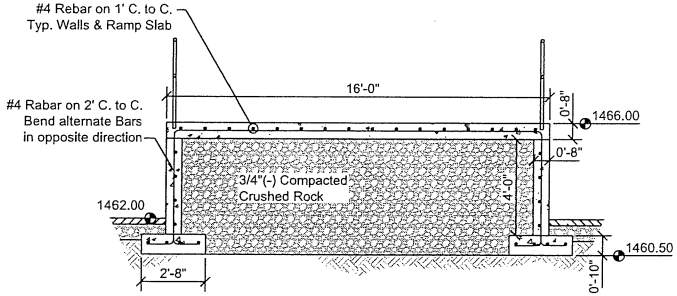
BLDG. #1 NORTH RAMP (V)
NO SCALE 1605-C4



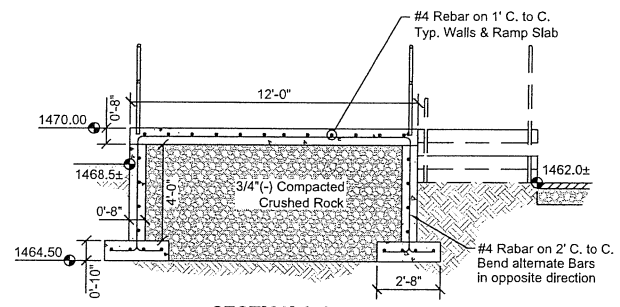
BLDG. #1 SOUTH RAMP (X)
NO SCALE 1605-C4



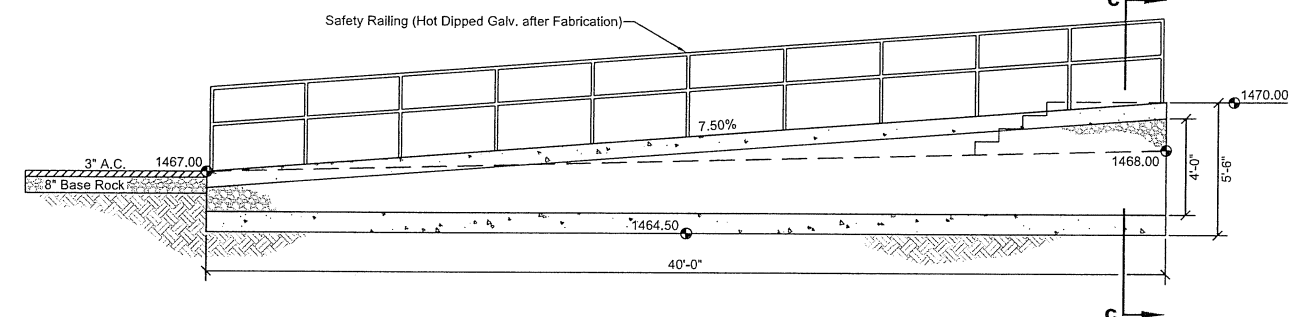
SECTION A-A



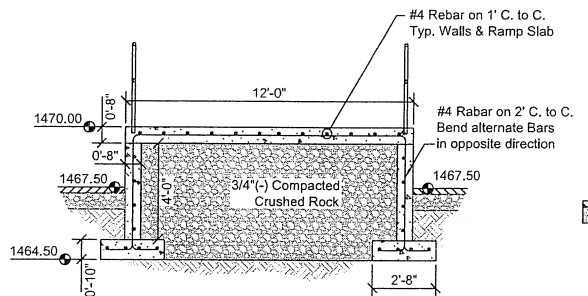
SECTION B-B



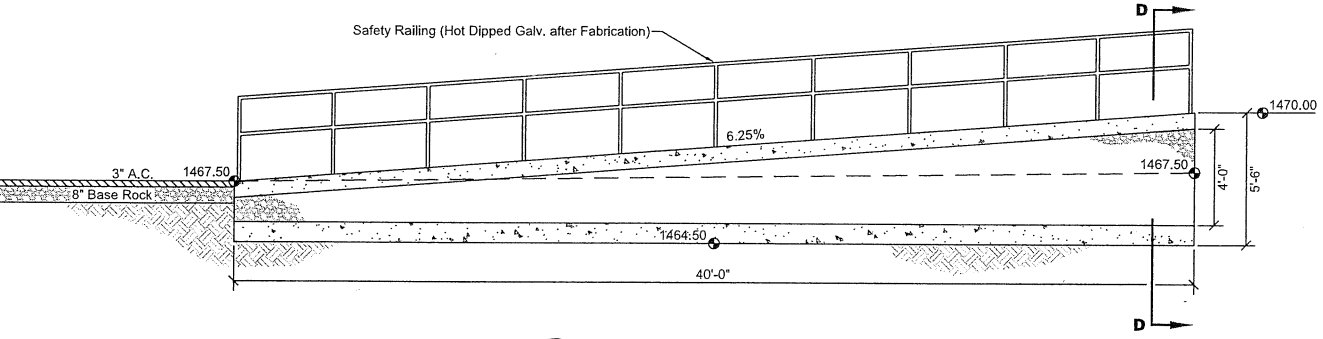
SECTION C-C



BLDG. #2 NORTH RAMP (Y)
NO SCALE 1605-C4.0



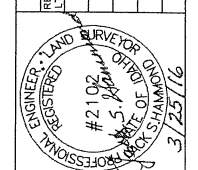
SECTION D-D



BLDG. #2 SOUTH RAMP (Z)
NO SCALE 1605-C4.0

REV	DATE	DESCRIPTION	CHECKED	APPD.
			JSH	

SCALE	1"=30'
DRAWN BY	MEE
CHECKED BY	JSH
DATE	03-25-16
JOB #	1605
SHEET	C1.1
DRAWING #	1605-C1.1

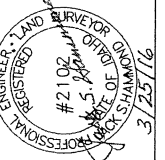
PROFESSIONAL ENGINEER - LAND SURVEYOR	REGISTERED	#2102	STATE OF IDAHO
			
3/25/16			

P-KAY METAL - SOUTHPORT PROJECT
GENERAL NOTES & DETAILS
SOUTHPORT AVENUE
LEWISTON, IDAHO



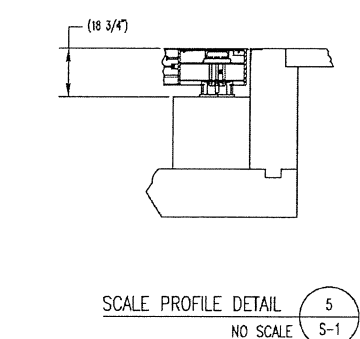
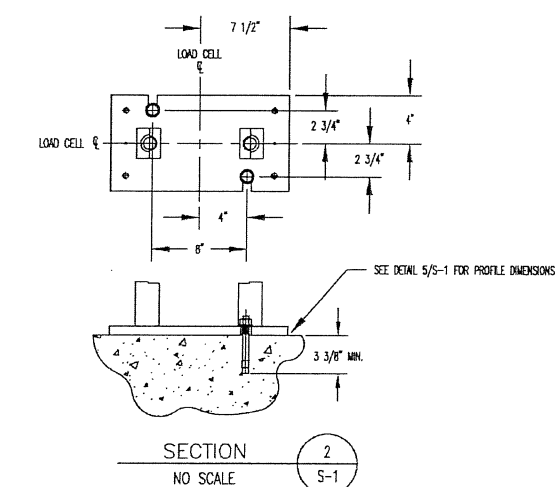
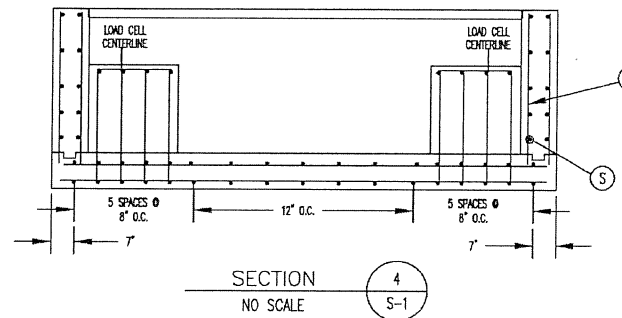
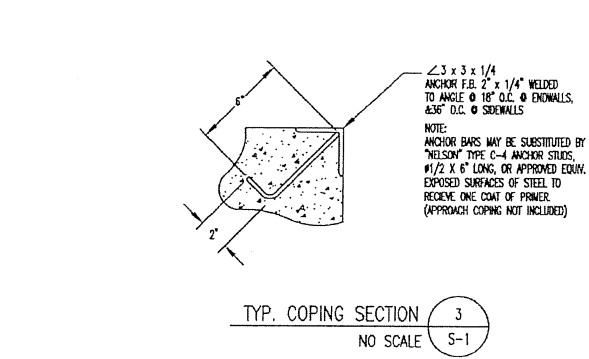
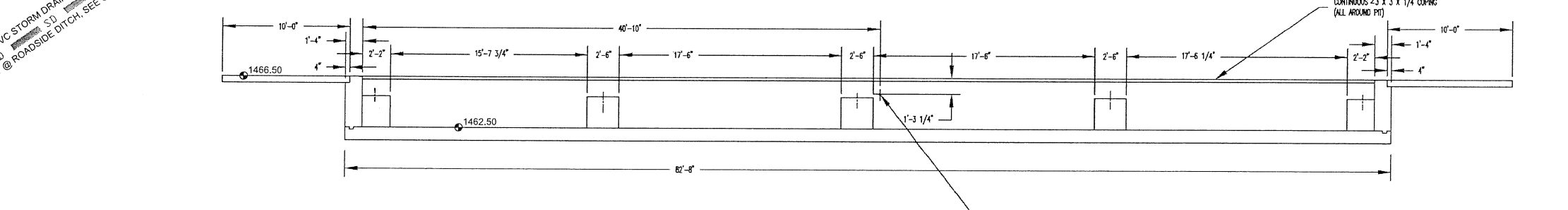
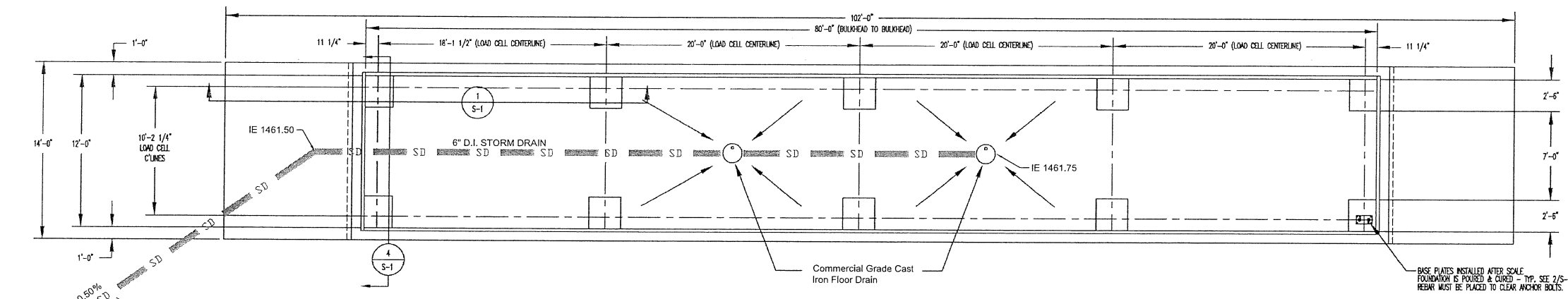
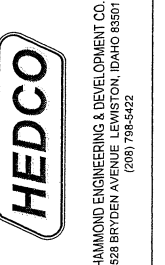
REVISIONS			
REV	REFERENCE	INIT	DATE

CHECKED	DATE	DESCRIPTION



SHEET SIZE	D	CHECKED BY	JSH	DATE	JOB #	SHEET	DRAWING #
11x30		MEE		03-25-16	1605		1605-C1.2

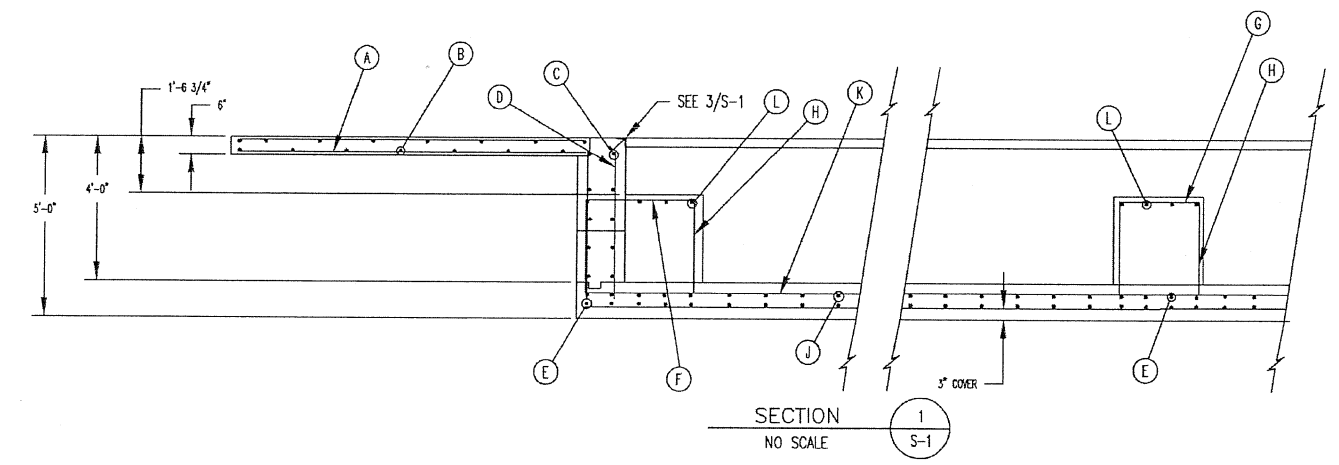
**P-KAY METAL - SOUTHPORT PROJECT
GENERAL NOTES & DETAILS
SOUTHPORT AVENUE
LEWISTON, IDAHO**



REBAR SCHEDULE				
PIECE NO.	QUANTITY	BAR SIZE	LENGTH AND DESCRIPTION	WEIGHT
A	60	5	9'-6" @ 12" O.C.	596
B	32	5	13'-6" @ 18" O.C.	451
C	20	5	13'-6" @ 12" O.C.	282
D	60	5	4'-6" @ 12" O.C.	282
E	44	5	13'-6"	620
F	16	5	3'-0"	50
G	24	5	2'-0"	50
H	80	5	2'-8"	229
J	126	3	13'-6" @ 12" O.C.	638
K	32	5	82'-2"	2742
L	44	5	2'-0"	92
R	332	5	4'-6" @ 12" O.C.	1558
S	20	5	82'-2" @ 12" O.C.	1714
TOTAL WEIGHT OF REBAR				9303

CONCRETE SCHEDULE	
1ST. POUR	FLOOR (TOTAL CUBIC YDS.) 43
2ND. POUR	WALLS (TOTAL CUBIC YDS.) 29.25
3RD. POUR	APPROACHES AND PIERS (TOTAL CUBIC YDS.) 10.75
TOTAL CUBIC YDS. REQUIRED 83	

MISC. STEEL	
PIE COPING	3 x 3 x 1/4 (185 LIN. FT.) 907



OWNER: _____
 LOCATION: _____
 SCALE DEALER: _____
 CONTRACTOR: _____
 REF#: _____ DATE: _____

TITLE
**FOUNDATION, CONCRETE PIT
 80' X 12" OTR SERIES TRUCK SCALE**

DR. BY: **DJS** CRD
 DATE: **3/12/10** APPD
RICE LAKE WEIGHING SYSTEMS
 RICE LAKE WISCONSIN

THIRD ANGLE PROJECTION

SCALE: 1:64 SHEET 1 OF 1 REVISION: NEW DWG NO: 115227

SHEET **C1.2**

EXTG 12" Water Main

EXTG 12" Water Main

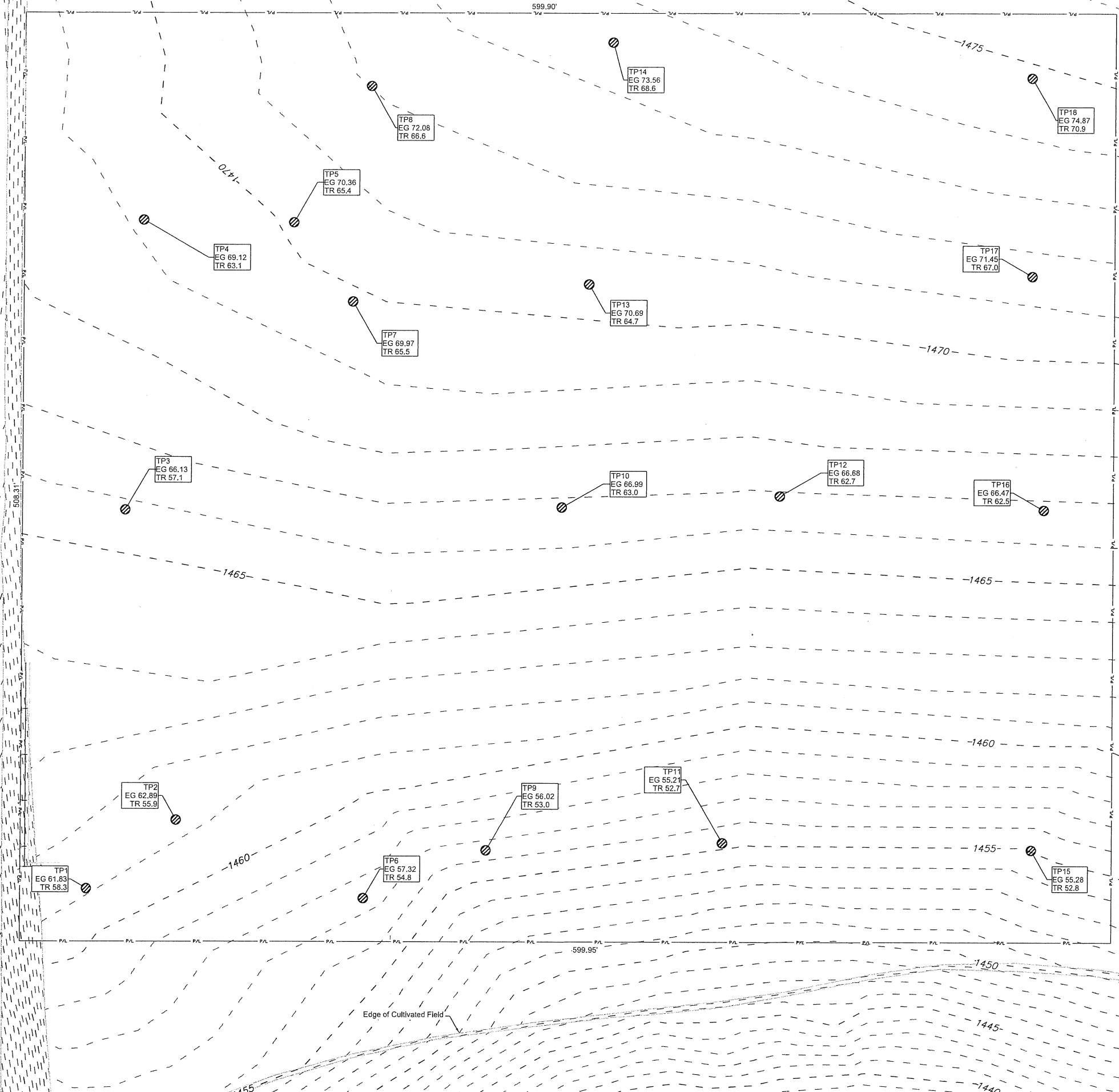
EXTG 8" Sewer

EXTG 8" Sewer

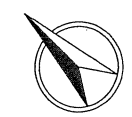
SOUTHPORT AVE

(E)SSMH
RIM 65.21
IE 55.75

(E)SSMH
RIM 1458.87
IE 1454.35

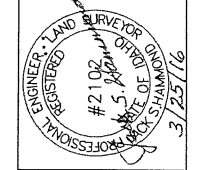


Edge of Cultivated Field



Scale: 1" = 30' (24"x36" sheet)
Scale: 1" = 60' (11"x17" sheet)

REV	DATE	DESCRIPTION	CHECKED	APPD.
			JSH	

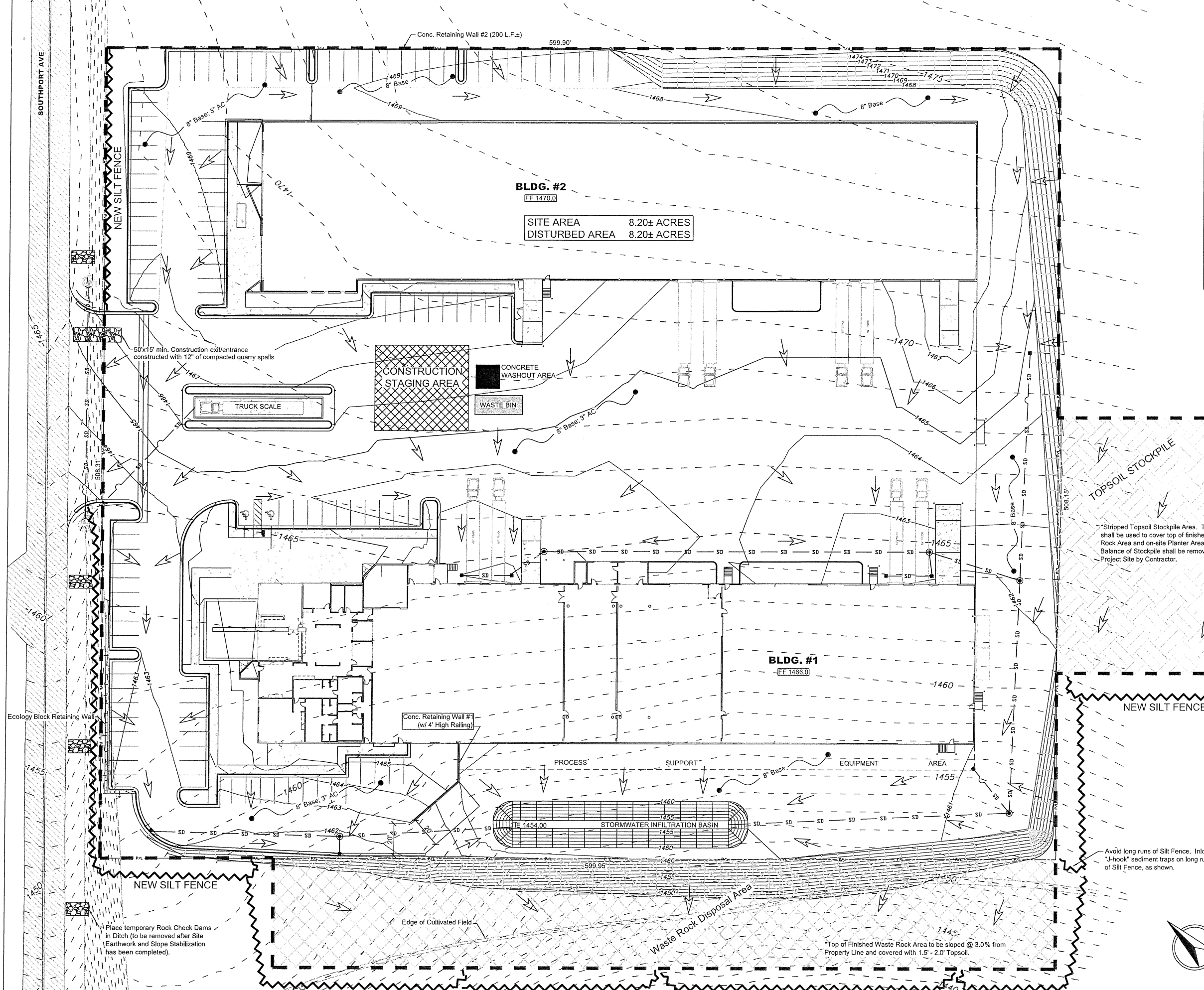


SCALE	1"=30'	SHEET SIZE	D
DRAWN BY	MEE	CHECKED BY	JSH
DATE	03-25-16	JOB #	1605
SHEET	C2.0	DRAWING #	1605-C2.0

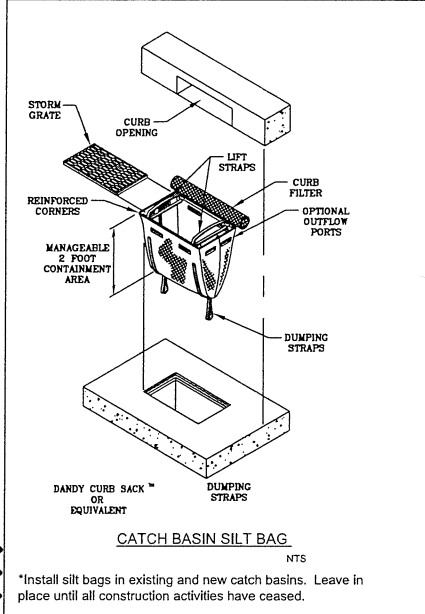
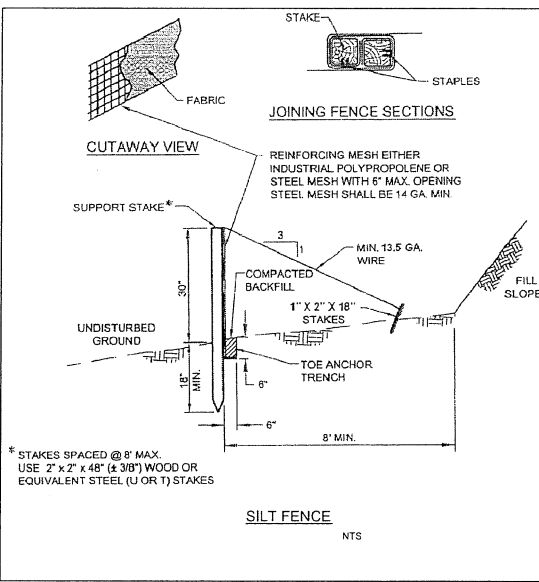
P-KAY METAL - SOUTHPORT PROJECT
EXISTING SITE PLAN
SOUTHPORT AVENUE
LEWISTON, IDAHO



SHEET
C2.0



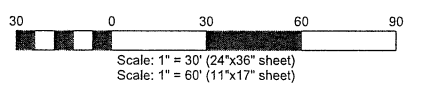
SITE AREA 8.20± ACRES
DISTURBED AREA 8.20± ACRES



*Stripped Topsoil Stockpile Area. Topsoil shall be used to cover top of finished Waste Rock Area and on-site Planter Areas. Balance of Stockpile shall be removed from Project Site by Contractor.

Avoid long runs of Silt Fence. Include "J-hook" sediment traps on long runs of Silt Fence, as shown.

- 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.



APPRO.	
CHECKED	JSH
REVISION	DESCRIPTION
DATE	04-22-16
REV. LTR.	B
Revised as per City Review Comments dated	

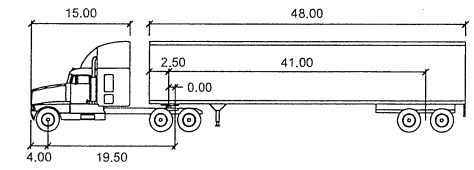
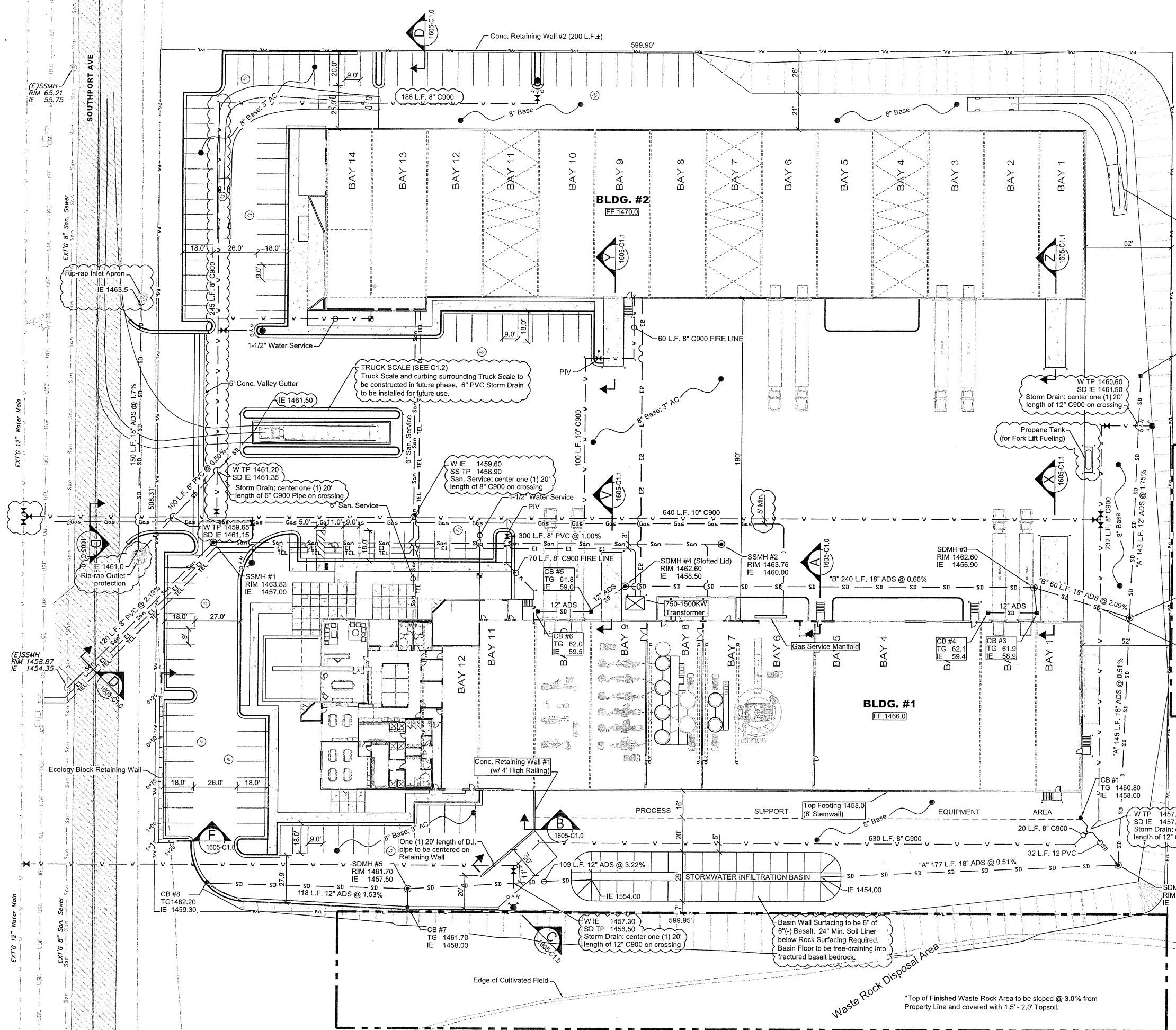
PROFESSIONAL ENGINEER, LAND SURVEYOR	REGISTERED	#2102	3/25/16
SOUTHPORT AVENUE		LEWISTON, IDAHO	

SHEET SIZE	D
SCALE	1"=30'
CHECKED BY	JSH
DRAWN BY	WEE
DATE	03-25-16
JOB	1605
SHEET	C3.0
DRAWING #	1605-C3.0

P-KAY METAL - SOUTHPORT PROJECT
CONSTRUCTION EROSION & SEDIMENT CONTROL PLAN
SOUTHPORT AVENUE
LEWISTON, IDAHO

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

SHEET **C3.0**



WB-62 feet

Tractor Width	: 8.00	Lock to Lock Time	: 6.0
Trailer Width	: 8.50	Steering Angle	: 28.4
Tractor Track	: 8.00	Articulating Angle	: 70.0
Trailer Track	: 8.50		

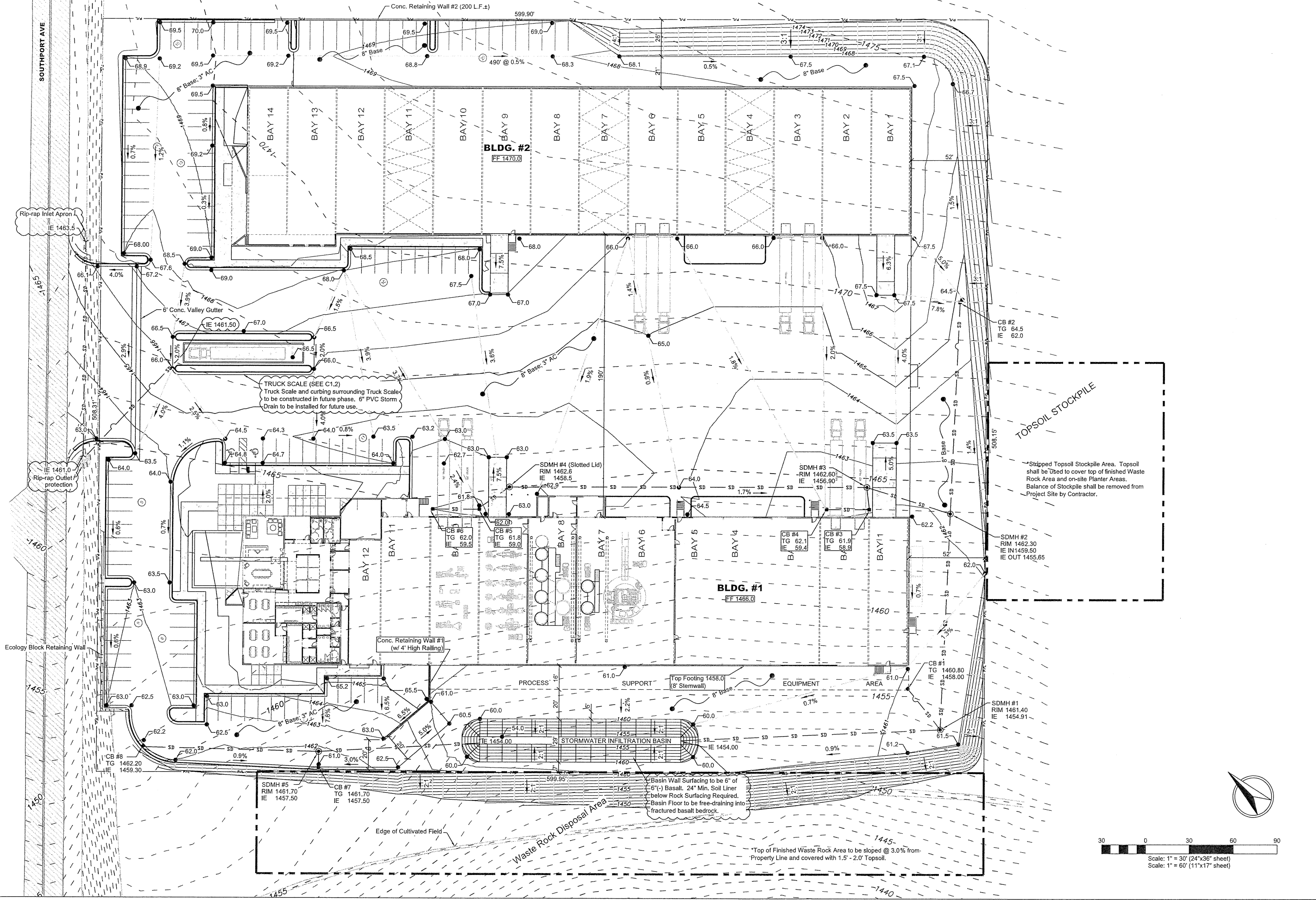
Typical Tractor-Trailer Configuration

REVISION	DESCRIPTION	CHECKED	DATE
1	ISSUED FOR PERMITS	JSH	04-22-16
2	Revised as per City Review Comments dated	JSH	

SCALE: 1"=30'
DRAWN BY: MEE
DATE: 03-25-16
SHEET: C4.0
DRAWING #: 1605-C4.0

P-KAY METAL - SOUTHPORT PROJECT
SITE DEVELOPMENT PLAN
SOUTHPORT AVENUE
LEWISTON, IDAHO

HEDCO
HAMMOND ENGINEERING & DEVELOPMENT CO.
528 BRYDEN AVENUE, LEWISTON, IDAHO 83501
(208) 786-5422



Rip-rap Inlet Apron
IE 1463.5

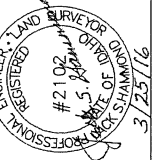
TRUCK SCALE (SEE C1.2)
Truck Scale and curbing surrounding Truck Scale to be constructed in future phase. 6" PVC Storm Drain to be installed for future use.

TOPSOIL STOCKPILE
Strippped Topsoil Stockpile Area. Topsoil shall be used to cover top of finished Waste Rock Area and on-site Planter Areas. Balance of Stockpile shall be removed from Project Site by Contractor.

Basin Wall Surfacing to be 6" of 6"(-) Basalt. 24" Min. Soil Liner below Rock Surfacing Required. Basin Floor to be free-draining into fractured basalt bedrock.

*Top of Finished Waste Rock Area to be sloped @ 3.0% from Property Line and covered with 1.5' - 2.0' Topsoil.

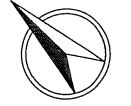
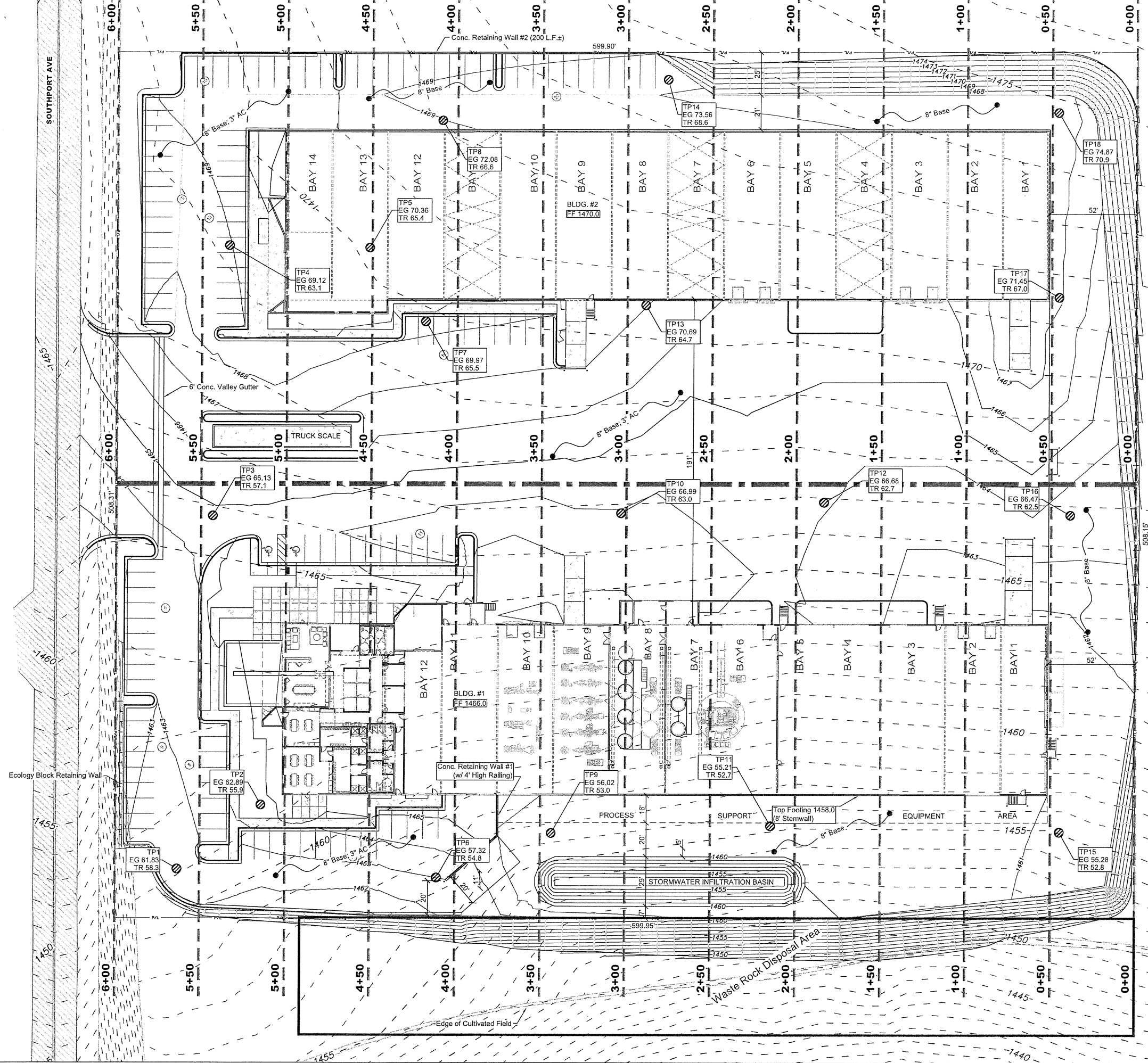
REV	DATE	DESCRIPTION
B	03-25-16	Revised as per City Review Comments dated



SHEET SIZE	1"=30'
DRAWN BY	MEE
CHECKED BY	JSH
DATE	03-25-16
SHEET	C5.0
DRAWING #	1605-C5.0

P-KAY METAL - SOUTHPORT PROJECT
SITE GRADING PLAN
SOUTHPORT AVENUE
LEWISTON, IDAHO

HEDCO
 HAMMOND ENGINEERING & DEVELOPMENT CO.
 528 BRYDEN AVENUE, LEWISTON, IDAHO 83801
 (208) 756-5422

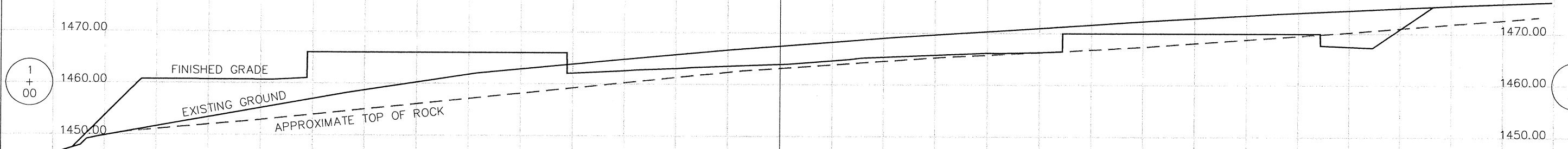


**P-KAY METAL - SOUTHPORT PROJECT
SITE X-SECTIONS - PLAN VIEW
SOUTHPORT AVENUE
LEWISTON, IDAHO**

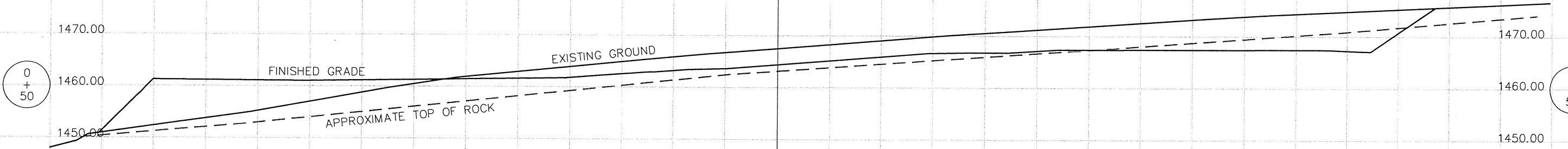
SCALE	SHEET SIZE	REVISION
1"=30'	D	DESCRIPTION
DRAWN BY: MEE	CHECKED BY: JSH	DATE
DATE: 03-25-16	JOB # 1605	REVISION
SHEET C6.0	DRAWING # 1605-C6.0	APPROVED

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

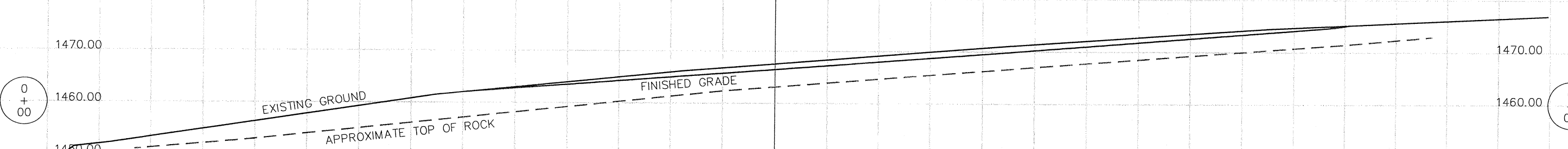
280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300



STA = 1+00
 ORIGINAL EL = 1467.44
 DESIGN EL = 1463.89
 DESIGN EARTHWORK
 FILL AREA = 2020.41
 CUT AREA = 2100.31
 VF = 3151.65
 VC = 4037.12



STA = 0+50
 ORIGINAL EL = 1467.50
 DESIGN EL = 1464.39
 DESIGN EARTHWORK
 FILL AREA = 1383.37
 CUT AREA = 2259.78
 VF = 2397.03
 VC = 3482.09



STA = 0+00
 ORIGINAL EL = 1467.56
 DESIGN EL = 1466.48
 DESIGN EARTHWORK
 FILL AREA = 1205.42
 CUT AREA = 1500.87
 VF = 0.00
 VC = 0.00

280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

REV	DATE	DESCRIPTION	APPROVED

ENGINEER - LAND SURVEYOR
 #2102
 STATE OF IDAHO
 3/25/16

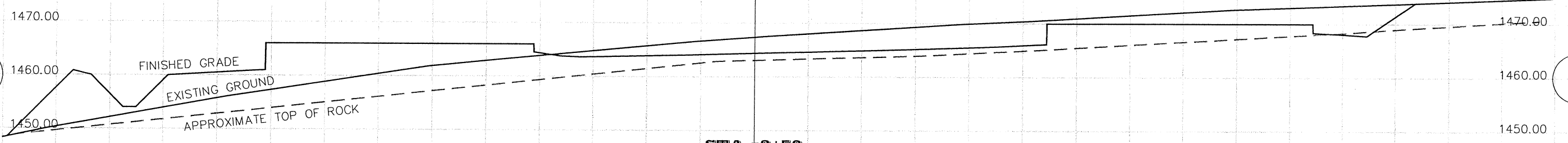
SHEET SIZE	D	SCALE	DRAWN BY	CHECKED BY	DATE	JOB #	SHEET	DRAWING #
H:1"=20'	V:1"=10'	D	MEE	JSH	03-25-16	1605	C7.0	1605-C7.0

P-KAY METAL - SOUTHPORT PROJECT
SITE X-SECTIONS 0+00 - 1+00
SOUTHPORT AVENUE
LEWISTON, IDAHO



280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

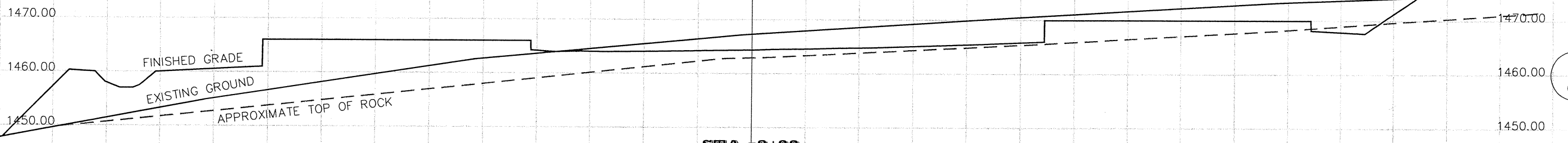
2
+
50



STA = 2+50
 ORIGINAL EL = 1467.36
 DESIGN EL = 1464.38

DESIGN EARTHWORK
 FILL AREA = 2299.24
 CUT AREA = 2244.59
 VF = 4274.15
 VC = 4033.35

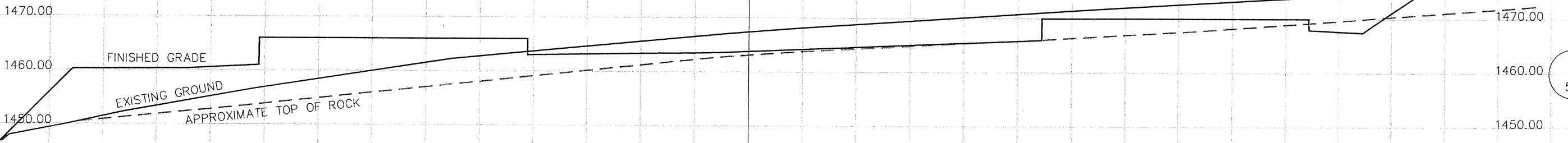
2
+
00



STA = 2+00
 ORIGINAL EL = 1467.29
 DESIGN EL = 1464.37

DESIGN EARTHWORK
 FILL AREA = 2316.84
 CUT AREA = 2111.44
 VF = 4121.52
 VC = 3900.56

1
+
50

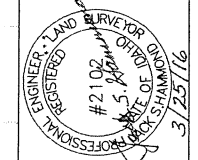


STA = 1+50
 ORIGINAL EL = 1467.37
 DESIGN EL = 1463.78

DESIGN EARTHWORK
 FILL AREA = 2134.40
 CUT AREA = 2101.17
 VF = 3847.04
 VC = 3890.25

280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300

REV	DATE	DESCRIPTION	CHECKED	APPD.
			JSH	



SHEET SIZE	D
H-1"=20' V:1"=10'	

DRAWN BY	CHECKED BY
MEE	JSH

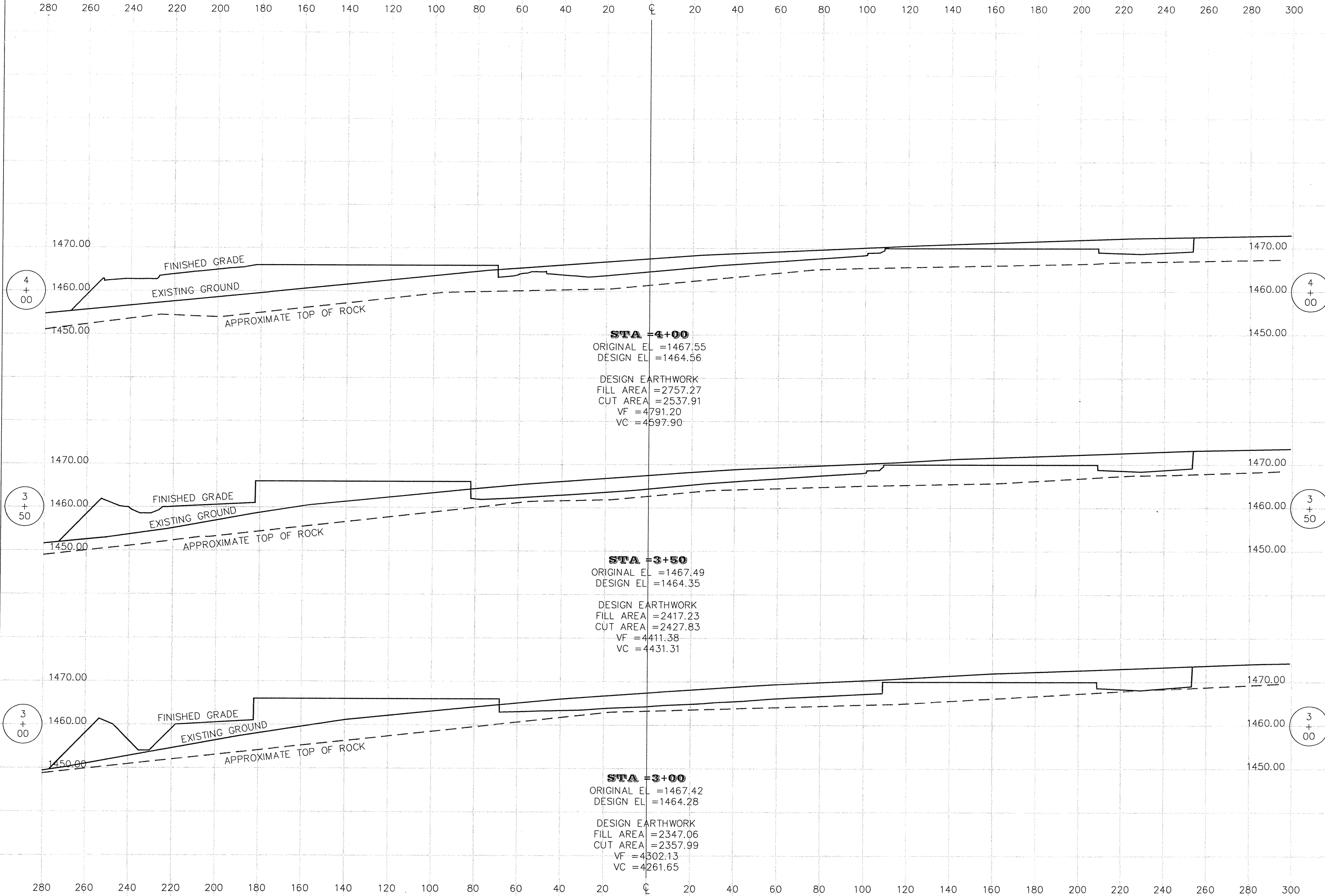
DATE	JOB #
03-25-16	1605

SHEET	DRAWING #
C7.1	1605-C7.1

P-KAY METAL - SOUTHPORT PROJECT
SITE X-SECTIONS 1+50 - 2+50
SOUTHPORT AVENUE
LEWISTON, IDAHO



SHEET **C7.1**

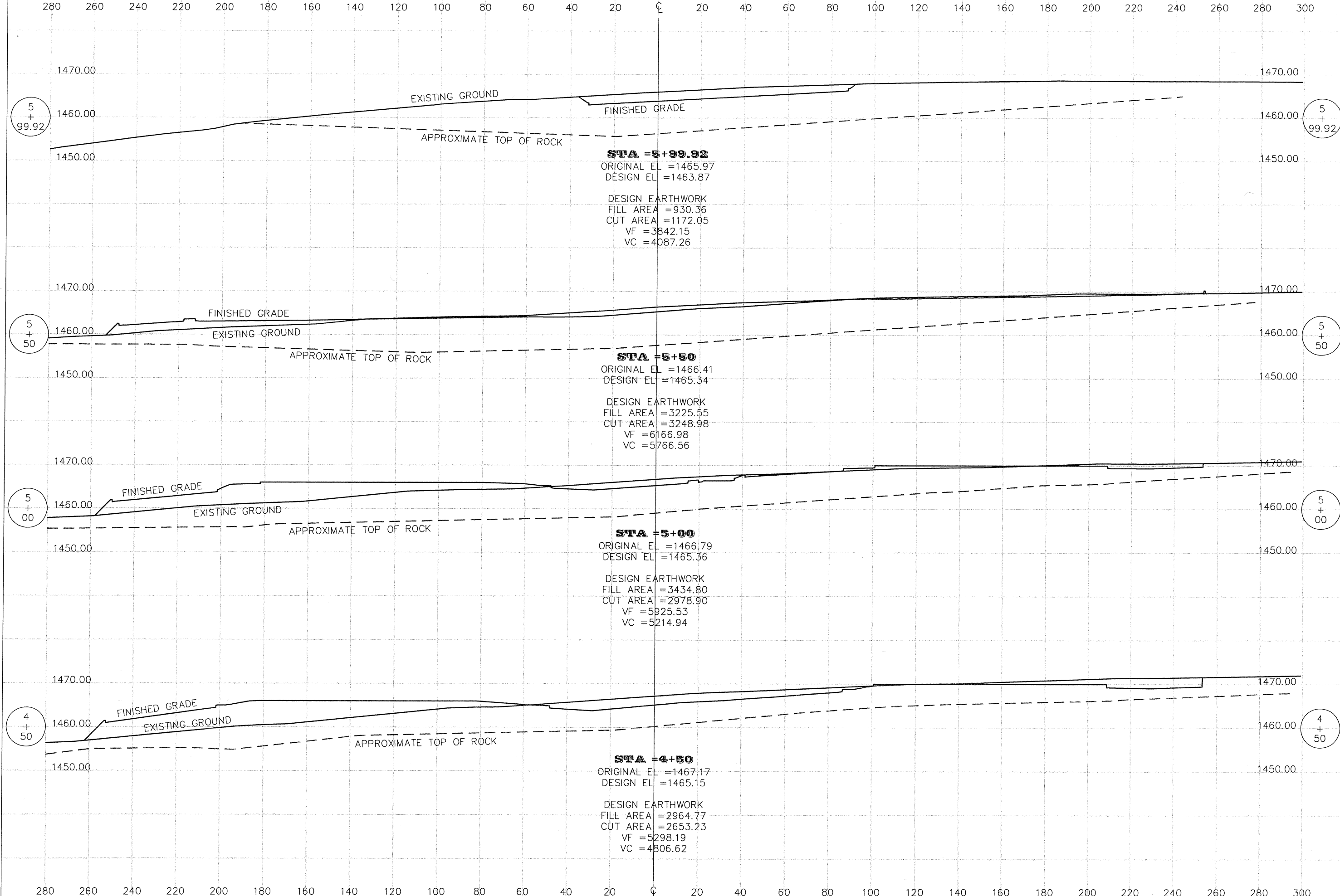


REV	DATE	DESCRIPTION	CHECKED	APPR.
			JBH	

SCALE: H:1"=20' V:1"=10'	SHEET SIZE: D
DRAWN BY: MEE	CHECKED BY: SH
DATE: 03-25-16	JOB: 1605
SHEET: C7.2	DRAWING #: 1605-C7.2

P-KAY METAL - SOUTHPORT PROJECT
SITE X-SECTIONS 3+00 - 4+00
SOUTHPORT AVENUE
LEWISTON, IDAHO





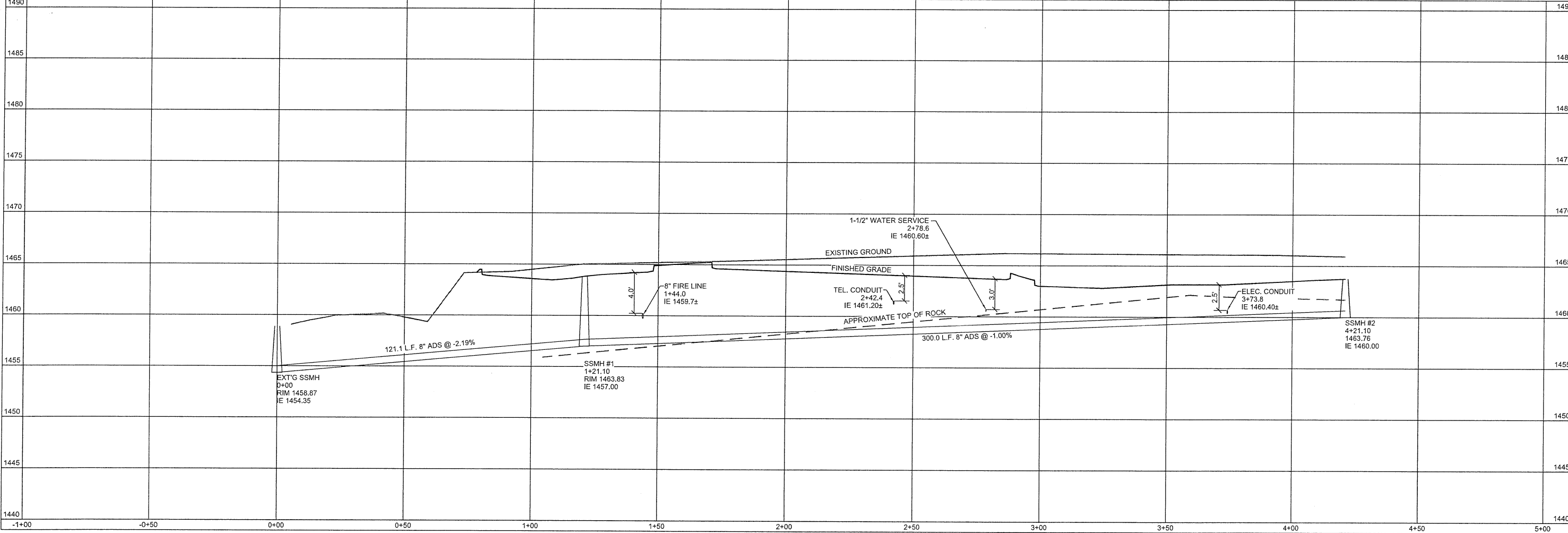
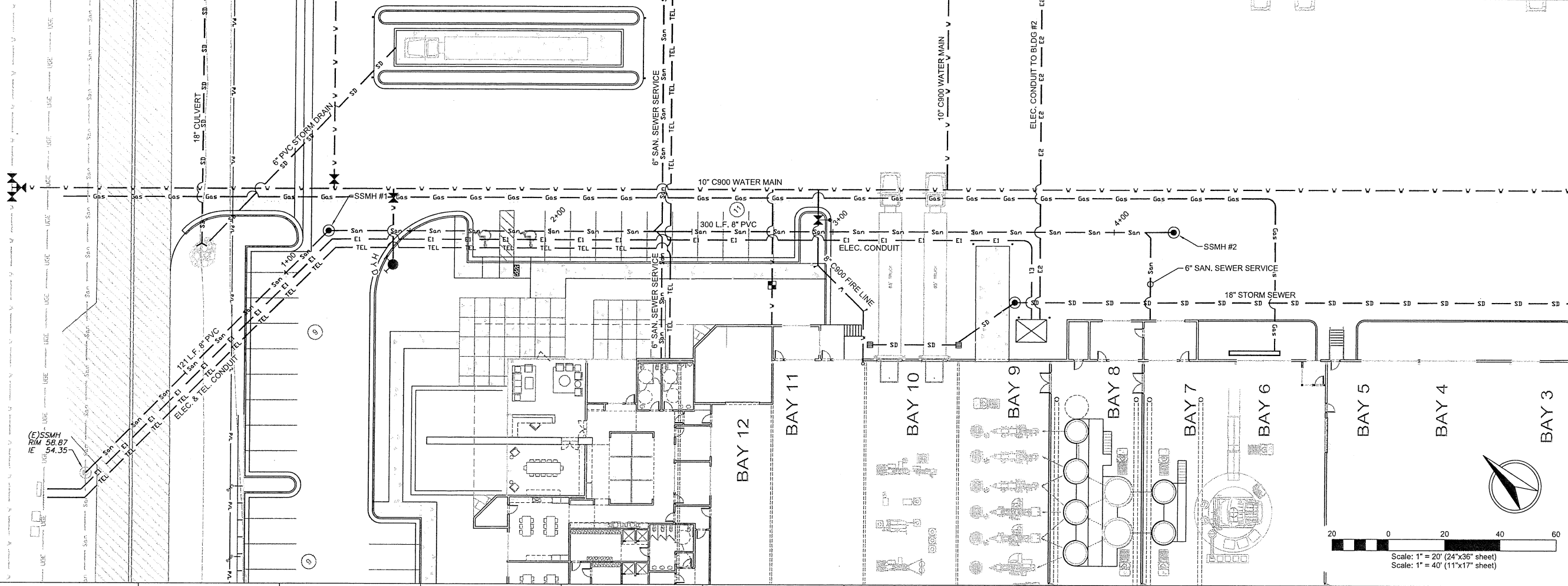
APPROVED	
CHECKED	JSH
REVISION	
DESCRIPTION	
DATE	
ISSUE	
DATE	
DATE	
DATE	
DATE	
DATE	

SCALE: H:1"=20' V:1"=10'
 DRAWN BY: MEE
 CHECKED BY: JSH
 DATE: 03-25-16
 JOB #: 1605
 SHEET: C7.3
 DRAWING #: 1605-C7.3

P-KAY METAL - SOUTHPORT PROJECT
SITE X-SECTIONS 4+50 - 6+00
SOUTHPORT AVENUE
LEWISTON, IDAHO



SHEET **C7.3**



REV	DATE	DESCRIPTION
B	04-22-16	Revised as per City Review Comments dated

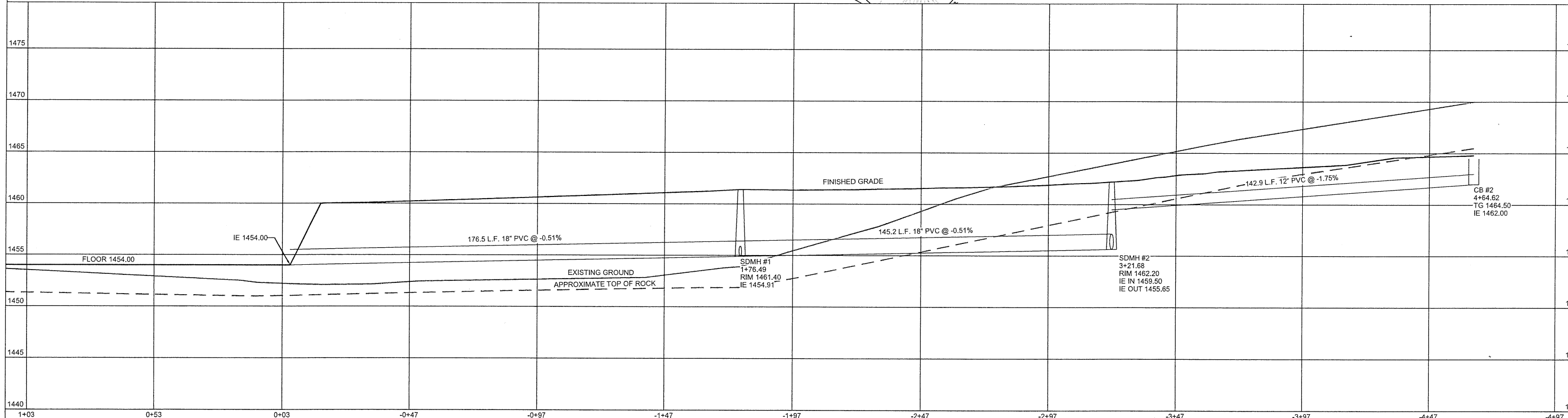
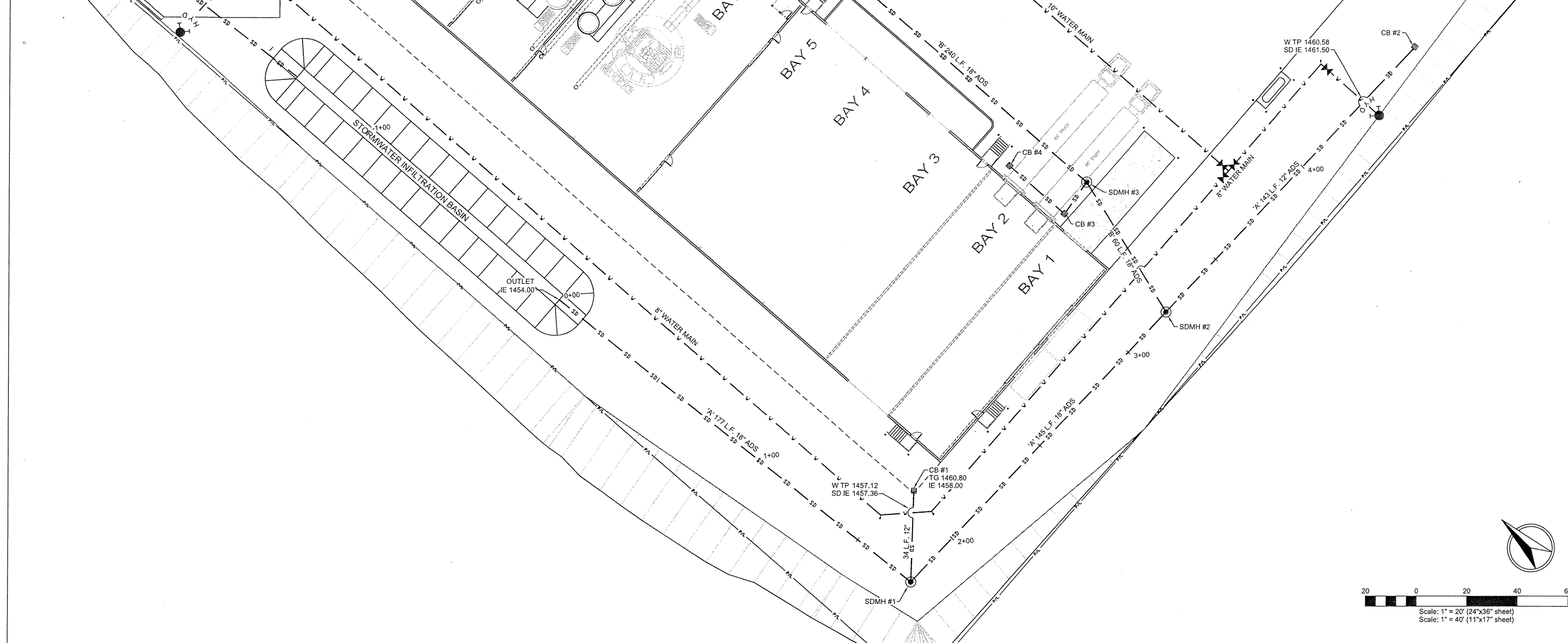
REGISTERED PROFESSIONAL ENGINEER - LAND SURVEYOR	DATE: 3/23/16
#2102	
STATE OF IDAHO	
BOISE	
SHAMMA	

SHEET SIZE	D	1605-C8.0
CHECKED BY	JSH	
DRAWN BY	MEE	
DATE	03-25-16	
JOB #	1605	
SHEET	C8.0	
DRAWING #	1605-C8.0	

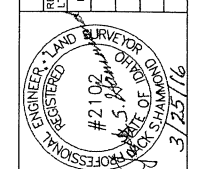
P-KAY METAL - SOUTHPORT PROJECT
SANITARY SEWER PLAN & PROFILE
SOUTHPORT AVENUE
LEWISTON, IDAHO

HEDCO
 HAMMOND ENGINEERING & DEVELOPMENT CO.
 528 BRYDEN AVENUE, LEWISTON, IDAHO 83501
 (208) 738-5422

SHEET **C8.0**

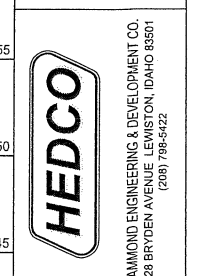


REV	DATE	DESCRIPTION	CHECKED	APP'D.
B	04-15-18	Revised as per City Review Comments dated		

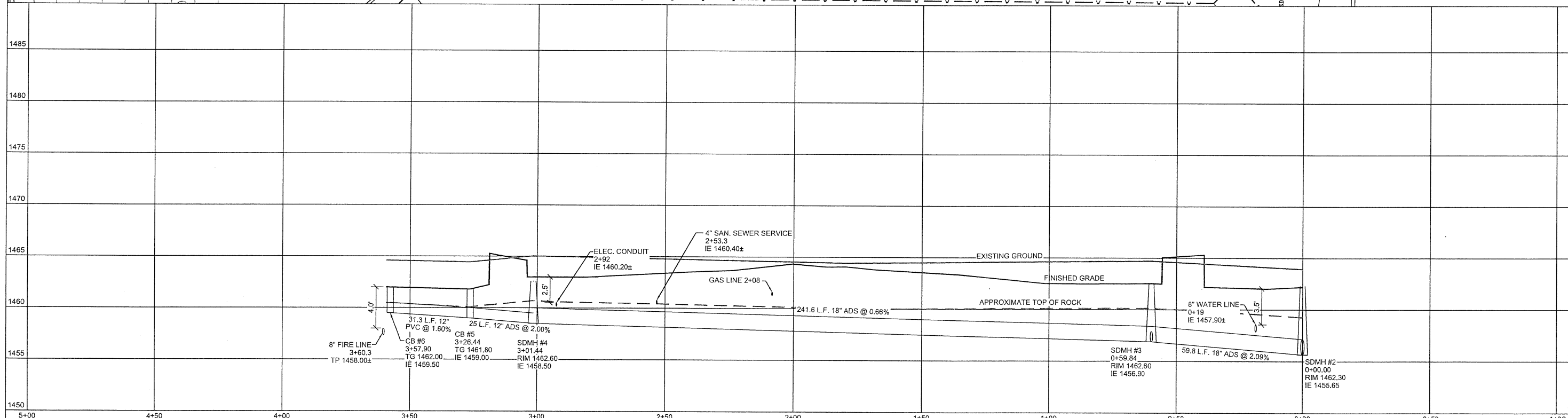
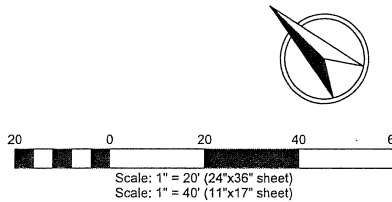
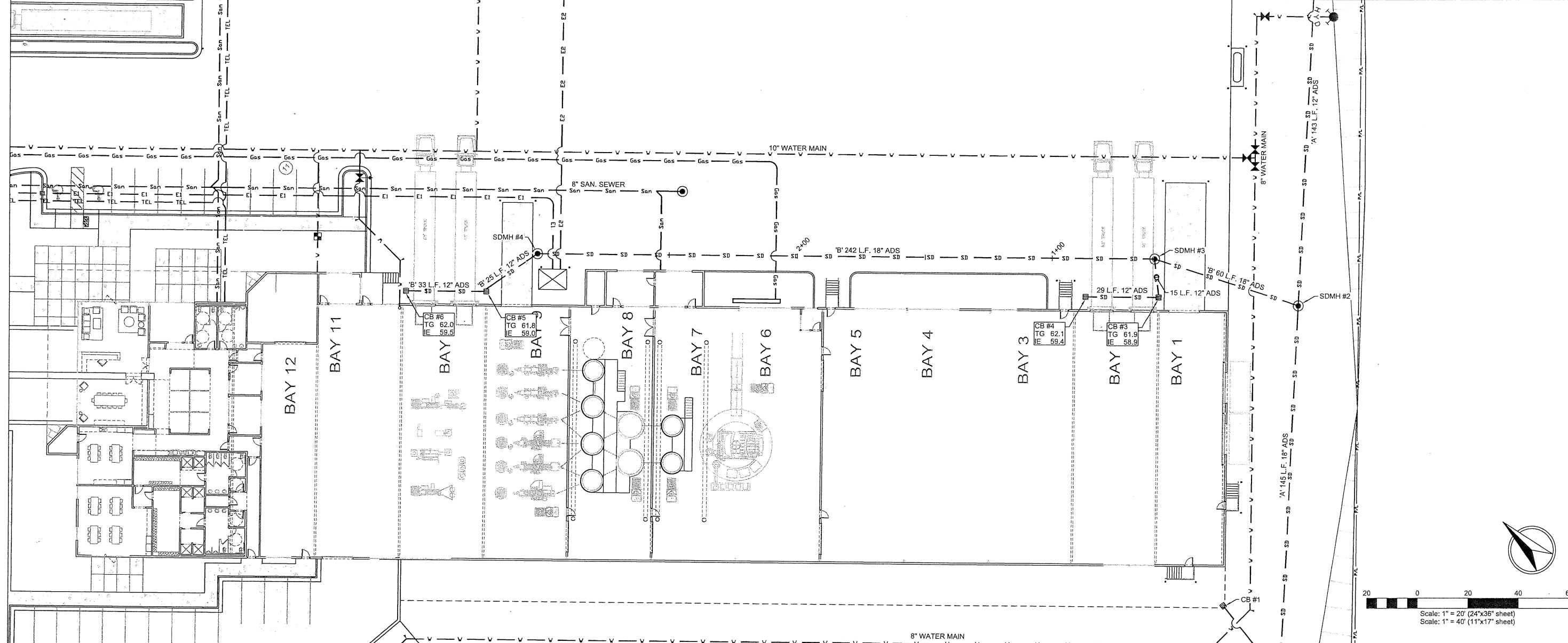


SCALE	1"=20'
DRAWN BY	MEE
CHECKED BY	JSH
DATE	03-25-16
SHEET	C9.0
DRAWING #	1605-C9.0

P-KAY METAL - SOUTHPORT PROJECT
STORM SEWER "A" PLAN & PROFILE
SOUTHPORT AVENUE
LEWISTON, IDAHO



SHEET
C9.0



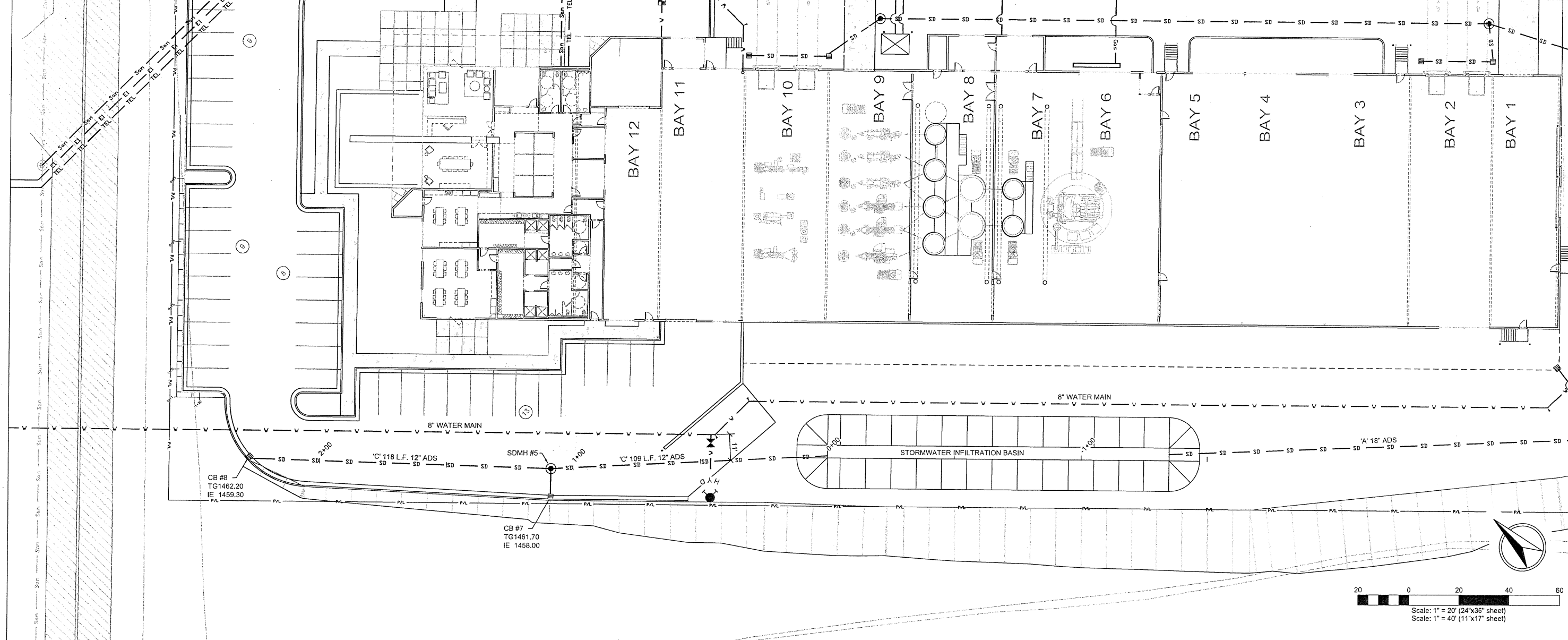
REV. DATE	DESCRIPTION	REVISION
04-15-16	B	Revised as per City Review Comments dated

SCALE: 1"=20'
 DRAWN BY: MEE
 CHECKED BY: JSH
 DATE: 03-25-16
 SHEET: C9.1
 DRAWING #: 1605-C9.1

P-KAY METAL - SOUTHPORT PROJECT
STORM SEWER "B" PLAN & PROFILE
SOUTHPORT AVENUE
LEWISTON, IDAHO

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

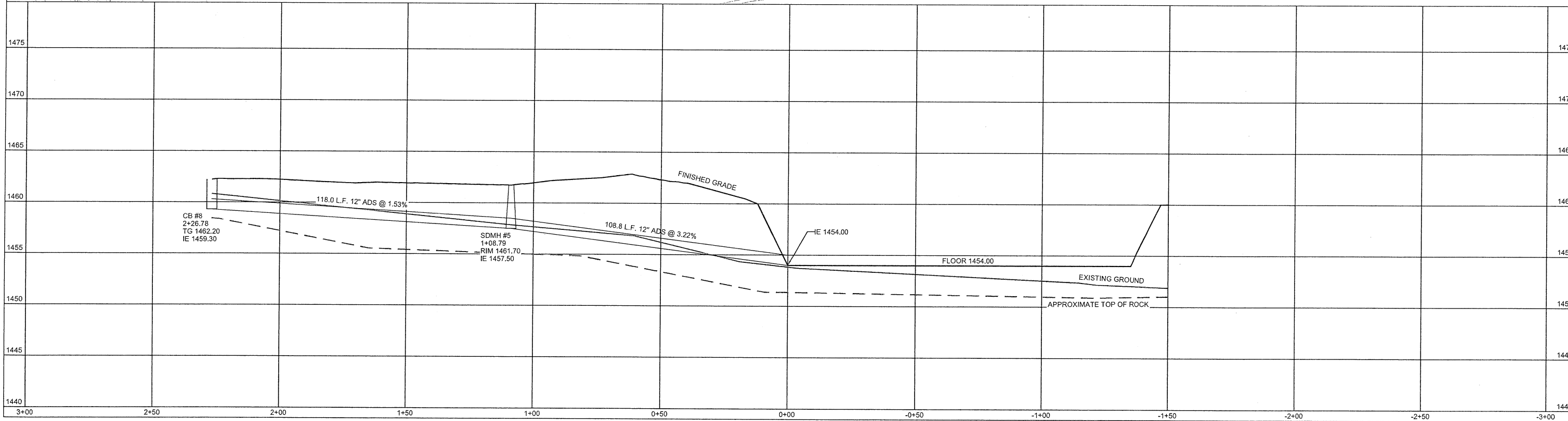
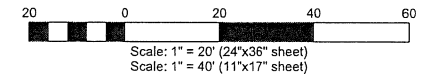
SHEET: **C9.1**



REV. NO.	DATE	DESCRIPTION	CHECKED	APP'D.
B	04-15-16	Revised as per City Review Comments dated		

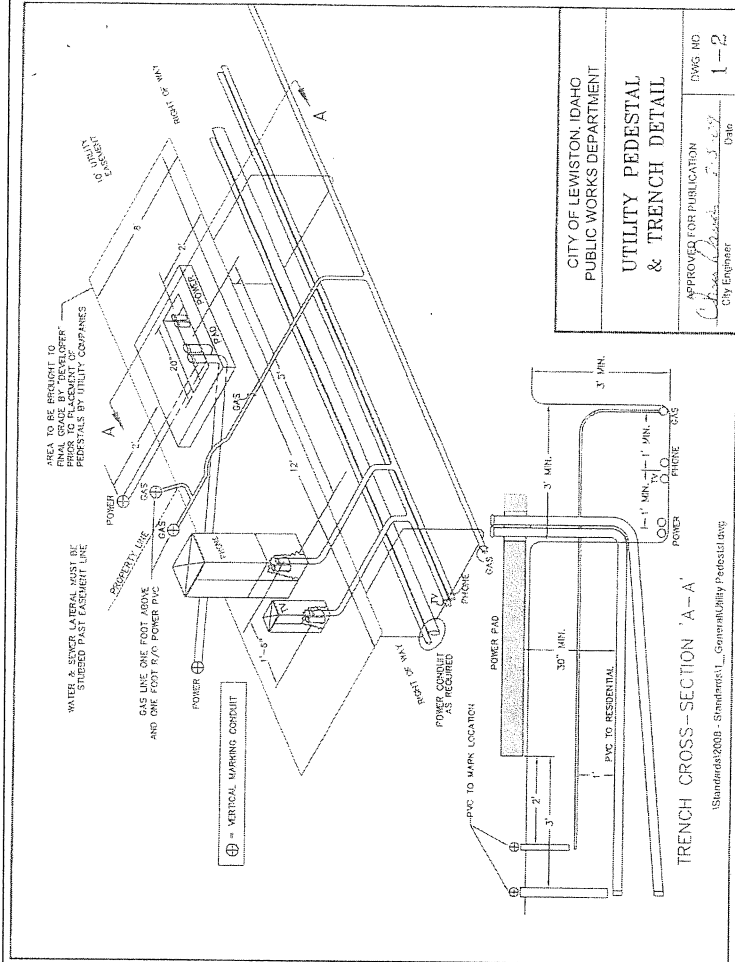
PROFESSIONAL ENGINEER - LAND SURVEYOR	REGISTERED	#2102	STATE OF IDAHO
3/23/16			

SCALE	1" = 20'
DRAWN BY	MEE
CHECKED BY	JSH
DATE	03-25-16
SHEET	C9.2
DRAWING #	1605-C9.2



**P-KAY METAL - SOUTHPORT PROJECT
STORM SEWER "B" PLAN & PROFILE
SOUTHPORT AVENUE
LEWISTON, IDAHO**





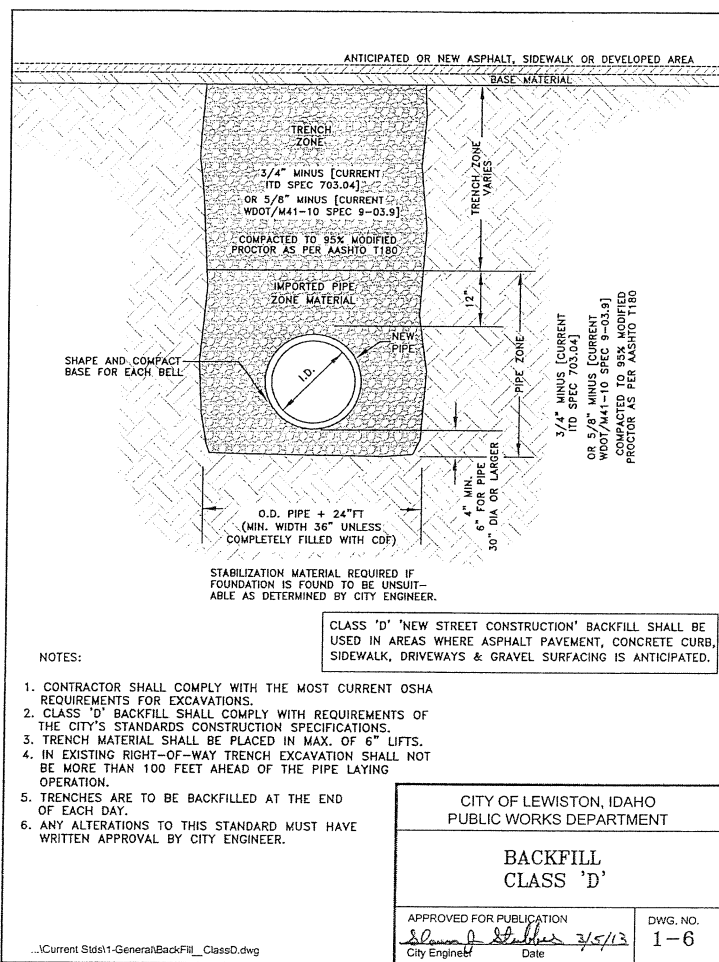
CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

UTILITY PEDAESTAL & TRENCH DETAIL

APPROVED FOR PUBLICATION
City Engineer
Date 1/2/15

DWG. NO. 1-2

...Current Std11-General\Utility Pedestal.dwg



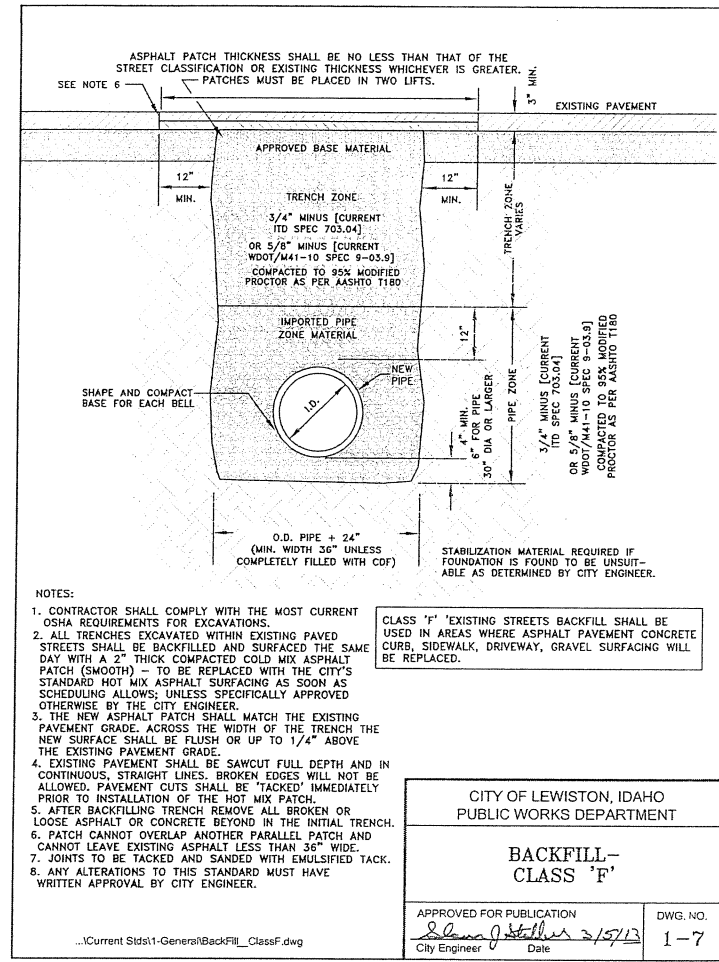
CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

BACKFILL CLASS 'D'

APPROVED FOR PUBLICATION
City Engineer
Date 3/5/13

DWG. NO. 1-6

...Current Std11-General\BackFill_ClassD.dwg



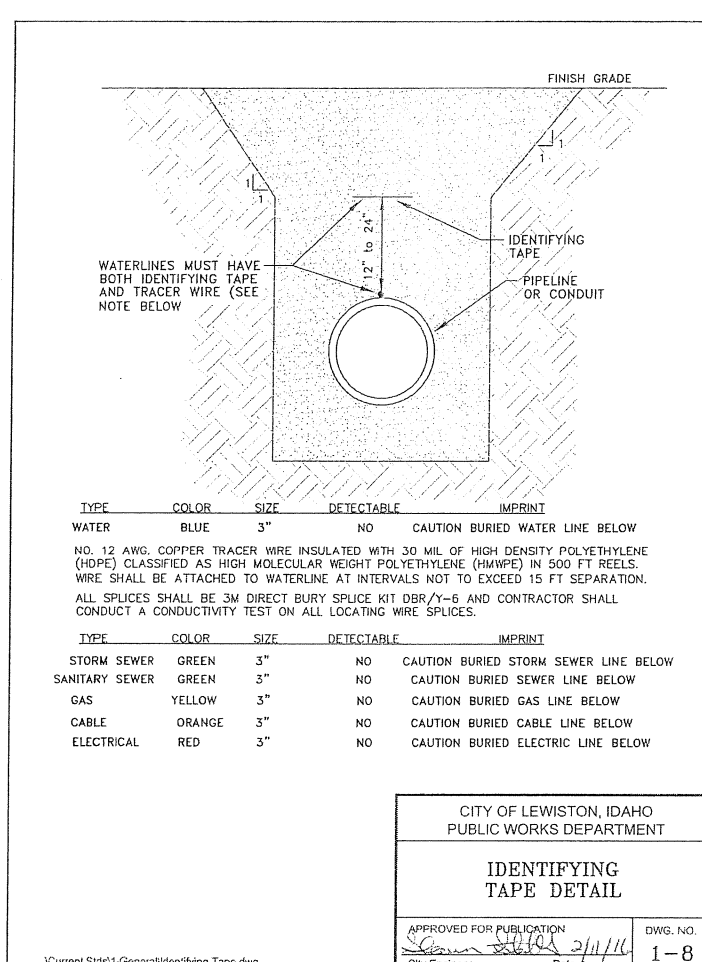
CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

BACKFILL CLASS 'F'

APPROVED FOR PUBLICATION
City Engineer
Date 2/5/13

DWG. NO. 1-7

...Current Std11-General\BackFill_ClassF.dwg



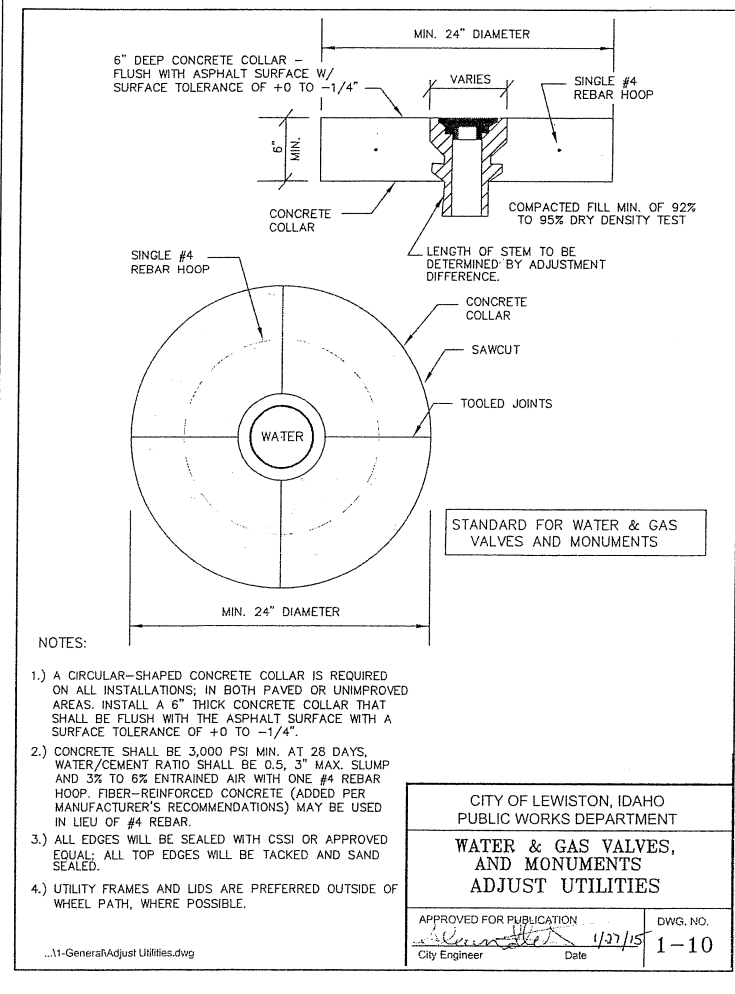
CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

IDENTIFYING TAPE DETAIL

APPROVED FOR PUBLICATION
City Engineer
Date 2/1/11

DWG. NO. 1-8

...Current Std11-General\Identifying Tape.dwg



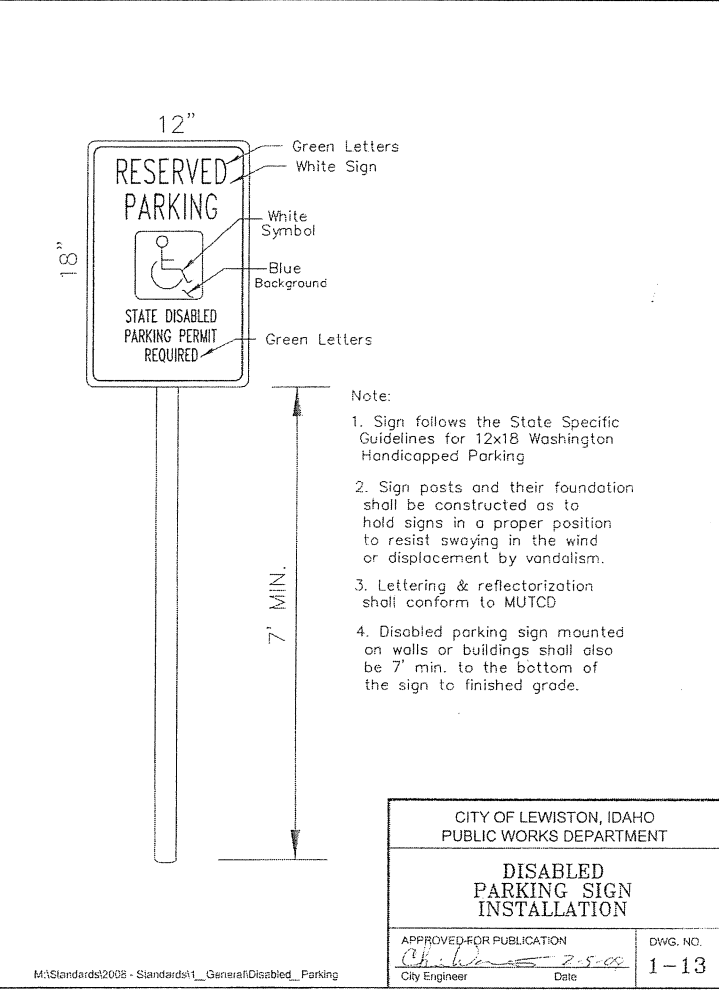
CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

WATER & GAS VALVES, AND MONUMENTS ADJUST UTILITIES

APPROVED FOR PUBLICATION
City Engineer
Date 1/27/15

DWG. NO. 1-10

...11-General\Adjust Utilities.dwg



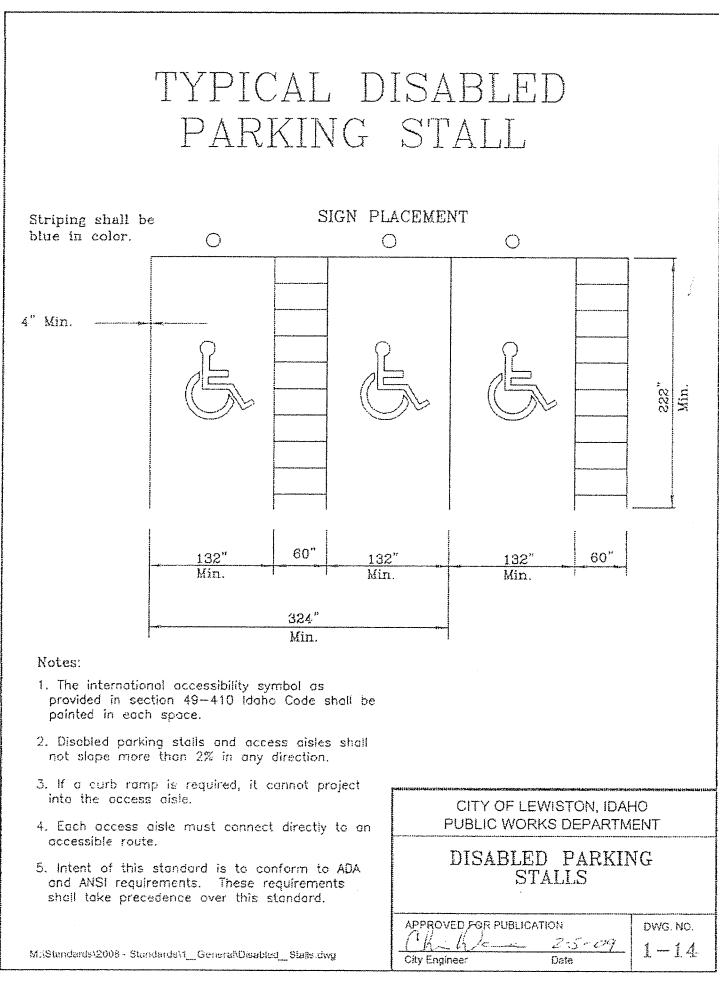
CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

DISABLED PARKING SIGN INSTALLATION

APPROVED FOR PUBLICATION
City Engineer
Date 2-5-09

DWG. NO. 1-13

M:\Standards\2008 - Standards\1_General\Disabled_Parking



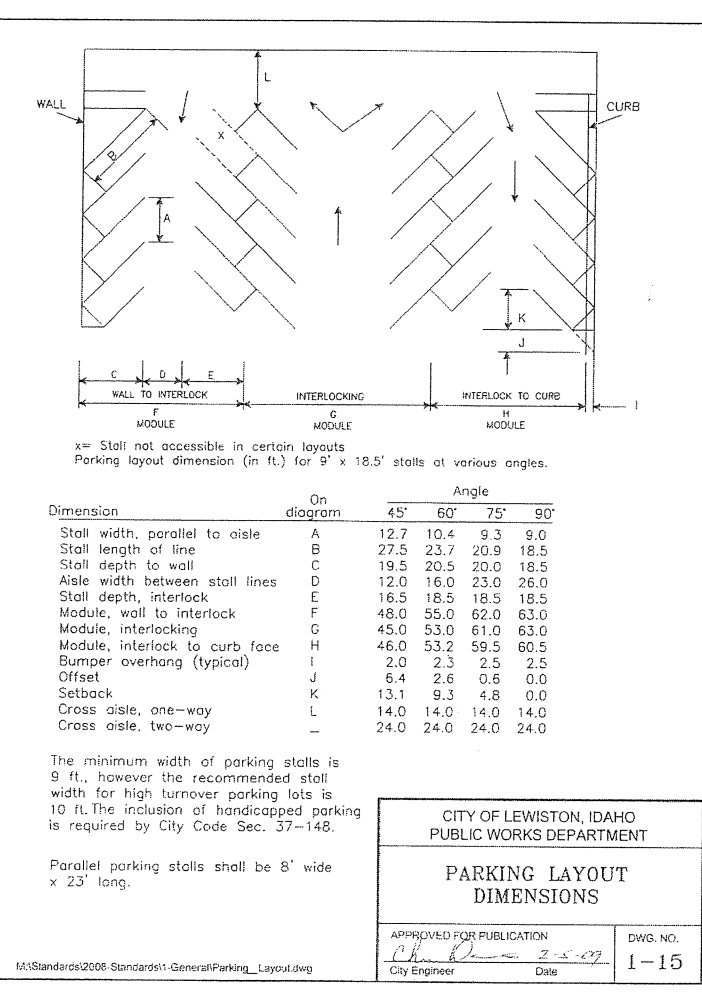
CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

DISABLED PARKING STALLS

APPROVED FOR PUBLICATION
City Engineer
Date 2-5-09

DWG. NO. 1-14

M:\Standards\2008 - Standards\1_General\Disabled_Parking



CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

PARKING LAYOUT DIMENSIONS

APPROVED FOR PUBLICATION
City Engineer
Date 2-5-09

DWG. NO. 1-15

M:\Standards\2008 - Standards\1_General\Parking_Layout.dwg

P-KAY METAL - SOUTHPORT PROJECT
STANDARD DETAILS
SOUTHPORT AVENUE
LEWISTON, IDAHO

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

REVISION
DESCRIPTION
REV. DATE
LTR.

CHECKED
APPROVED

SCALE
DRAWN BY WEE
DATE 03-25-16
SHEET C10.0
DRAWING # 1605-C10.0

REGISTERED PROFESSIONAL ENGINEER, LAND SURVEYOR, IDAHO
#2102
3/25/16

**TYPICAL 8\"/>

**TYPICAL 6\"/>

**TYPICAL 4\"/>

CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT	
VALLEY GUTTER	
APPROVED FOR PUBLICATION City Engineer	DWG. NO. 2-4

M:\Standards\2008 - Standards\2_Concrete\Valley Gutter.dwg******

PLAN

	MIN.	MAX.
A	1.6"	2.4"
B	.65"	1.5"
C	50%-65% OF BASE DIA.	
D	.9"	1.4"

SECTION VIEW

Notes:

- Detectable truncated-dome warning, 2 ft wide, must be provided for the full width of ramps and blended connections to mark the street edge and fully approved by current ADA requirements.
- At least one corner of the detectable warning panel shall be coincident to the back of curb

THIS PATTERN AREA SHALL BE YELLOW IN COLOR

CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT	
DETECTABLE WARNING FOR PEDESTRIAN ACCESS	
APPROVED FOR PUBLICATION City Engineer	DWG. NO. 2-5

M:\Standards\2010-Standards\2-Concrete\Detectable Dome.dwg

GENERAL NOTES FOR ALL TYPES OF CURB AND GUTTER

- SECURE A PERMIT FOR CONSTRUCTION, BEFORE BEGINNING CONSTRUCTION IN PUBLIC RIGHT-OF-WAY.
- GRADE, ALIGNMENT AND CURB TYPE SHALL BE AS APPROVED BY THE CITY ENGINEER.
- ALIGNMENT AND GRADE STAKED TO LIP OF GUTTER (LIP) SHALL BE ESTABLISHED OR APPROVED BY THE CITY ENGINEER.
- THE TOLERANCE FOR FINISHED CURB AND GUTTER - MAX. VARIATION OF SURFACE FLATNESS: 1/4 INCH IN 10 FEET MAX. VARIATION FROM TRUE POSITION (DESIGN GRADE): 1/2 INCH
- BASE MATERIAL SHALL BE 4" OF 3/4" MINUS [CURRENT ITD SPEC 703.04] OR 5/8" MINUS [CURRENT WDOT/M41-10 SPEC 9-03.9] CRUSHED AGGREGATE BASE MATERIAL COMPACTED TO 95% MAXIMUM DENSITY AS DETERMINED BY MODIFIED PROCTOR AS PER AASHTO T180. ALL FILL OR BACKFILL AREAS SHALL BE PLACED IN 6" TO 8" MAXIMUM LIFTS. IN AREAS OF SMALL PROJECTS, LIMITED HEAVY TRUCK TRAFFIC OR WHERE COMPACTION EQUIPMENT HAS LIMITED ACCESS A REDUCED % COMPACTION MAY BE ALLOWED WITH WRITTEN APPROVAL FROM PUBLIC WORKS DIRECTOR.
- CONCRETE SHALL BE 3,000 PSI MINIMUM AT 28 DAYS, MAXIMUM WATER/CEMENT RATIO SHALL BE 0.5 (LB/LB), 5" MAX. SLUMP, AIR CONTENT (%) 6.5 ±1.5.
- DUMMY JOINTS AT 10 FOOT INTERVALS AND AT CURB RADII, 3/4" TO 1" DEEP. CONSTRUCTION JOINTS LOCATIONS AS DIRECTED BY CITY ENGINEER. DIFFERENTIAL ELEVATION BETWEEN ADJACENT SECTIONS SHALL NOT EXCEED 1/4".
- THE CONTRACTOR ARE REQUIRED BY THE PUBLIC WORKS DEPARTMENT TO MARK STUB-OUTS AND VALVES IN THE UNCURED CONCRETE.
- THE CONTRACTOR OR OWNER SHALL NOTIFY THE PUBLIC WORKS DEPARTMENT FOR INSPECTION AFTER THE FORMS ARE SET AND THE PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED NO LESS THAN 2 WORKING DAYS BEFORE PLACEMENT OF CONCRETE FOR A FINAL INSPECTION. FAILURE TO NOTIFY THE PUBLIC WORKS DEPARTMENT IS GROUNDS FOR REJECTION OF CURB AND GUTTER.
- CONCRETE SURFACE TO HAVE A LIGHT BROOM FINISH PARALLEL WITH THE LENGTH OF THE CURB.
- APPLY UNIFORM COAT OF REZ-SEAL OR APPROVED EQUIVALENT CURING COMPOUND TO EXPOSED CONCRETE IMMEDIATELY AFTER FINISHING.
- ROLLED CURB AND GUTTER SHALL NOT BE USED:
 - ON STREETS IN COMMERCIAL AND INDUSTRIAL ZONED AREAS.
 - ON STREETS WITH LONGITUDINAL (LENGTHWISE) GRADES IN EXCESS OF 5%.
 - ON ANY ARTERIAL OR COLLECTOR
 - WITHOUT PRIOR APPROVAL OF THE CITY ENGINEER.
 - WHEN SIDEWALK IS LOCATED AT THE BACK OF CURB.

CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT	
GENERAL NOTES FOR ALL TYPES OF CURB AND GUTTER	
APPROVED FOR PUBLICATION City Engineer	DWG. NO. 2-6

M:\Standards\2010-Standards\2-Concrete\General_Notes_Concrete.dwg

HIGH BACK CURB & GUTTER

ROLLED CURB & GUTTER

95% COMPACTION REQUIRED ON BASE MATERIAL

ALL TOLERANCES ARE ±1/4" UNLESS OTHERWISE NOTED

CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT	
HIGH BACK CURB & GUTTER ROLLED CURB & GUTTER	
APPROVED FOR PUBLICATION City Engineer	DWG. NO. 2-7

M:\Standards\2008 - Standards\2_Concrete\HighBack_Rolled_Curb.dwg

SECURE A PERMIT FOR CONSTRUCTION, BEFORE BEGINNING CONSTRUCTION IN PUBLIC RIGHT-OF-WAY

95% COMPACTION REQUIRED ON BASE MATERIAL

GENERAL NOTES FOR ALL SIDEWALK:

- LINE AND GRADE STAKED T.S., TOP OF SIDEWALK, B.S., BACK OF SIDEWALK.
- GRADE AND ALIGNMENT TO BE APPROVED BY THE CITY ENGINEER.
- THE TOLERANCE FOR FINISHED SIDEWALK - MAX. VARIATION OF SURFACE FLATNESS: 1/4 INCH IN 10 FEET MAX. VARIATION FROM TRUE POSITION (DESIGN GRADE): 1/2 INCH NO PONDING IS ALLOWED ON SIDEWALKS, STEPS OR PEDESTRIAN RAMPS.
- BASE MATERIAL SHALL BE 4" OF 3/4" MINUS [CURRENT ITD SPEC 703.04] OR 5/8" MINUS [CURRENT WDOT/M41-10 SPEC 9-03.9] CRUSHED AGGREGATE BASE MATERIAL COMPACTED TO 95% MAXIMUM DENSITY AS DETERMINED BY MODIFIED PROCTOR AS PER AASHTO T180. ALL FILL OR BACKFILL AREAS SHALL BE PLACED IN 6" MAX. LIFTS.
- CONTRACTION/DUMMY JOINTS SHALL BE PLACED AT 5' INTERVALS, 3/4" TO 1" DEEP; INSTALL A PERFORMED EXPANSION JOINT FILLER TO THE FULL DEPTH & WIDTH EVERY 100 FEET.
- CONCRETE SHALL BE 3,000 PSI MIN. AT 28 DAYS, MAX. WATER/CEMENT RATIO SHALL BE RATIO SHALL BE 0.5 (LB/LB), 5" MAX. SLUMP, AIR CONTENT (%) 6.5 ±1.5.
- THE CONTRACTOR OR OWNER SHALL NOTIFY THE PUBLIC WORKS DEPT. FOR INSPECTION OF BASE MATERIAL AFTER FORMS ARE SET AND THE PUBLIC WORKS DEPT. WILL BE NOTIFIED NO LESS THAN 2 WORKING DAYS BEFORE PLACEMENT OF CONCRETE. FOR FINAL INSPECTION.
- CONCRETE SURFACE SHALL HAVE LIGHT BROOM FINISH PERPENDICULAR TO LENGTH OF S/W.
- APPLY UNIFORM COAT OF REZ-SEAL OR APPROVED EQUIVALENT CURING COMPOUND TO EXPOSED CONCRETE IMMEDIATELY AFTER FINISHING.
- NAME OF CONTRACTOR AND YEAR TO BE STAMPED AT EACH END OF WORK AND AT INTERVALS OF 300 FT.
- CONCRETE SURFACE SHALL BE FREE OF SURFACE BLEMISHES OR VOIDS GREATER THAN 1/4". JOINTS AND EDGES SHALL BE CLEAN AND FREE OF EXCESS SPALLING OR VOIDS.
- A 6" STRIP TO BE LOCATED BETWEEN RIGHT-OF-WAY LINE AND SIDEWALK FOR PLACEMENT OF PROPERTY PINS WHEN PLANTING STRIP OR RETENTION SWALES ARE PLACED BEHIND CURB AND GUTTER.

CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT	
CONCRETE SIDEWALK	
APPROVED FOR PUBLICATION City Engineer	DWG. NO. 2-8

M:\Standards\2008 - Standards\2_Concrete\Concrete Sidewalk.dwg

HORIZONTAL REQUIREMENTS:

ZONE 1: MORE THAN 10 FEET APART
NO SPECIAL REQUIREMENTS

ZONE 2: FROM 6 TO 10 FEET APART
A. No special requirements for service lines.
B. Potable and non-potable mains separated by at least 6 feet at outside walls and
i. Potable mains higher in elevation than the non-potable mains and
ii. Non-potable mains constructed to with potable water class pipe and pressure tested for water tightness.

ZONE 3: CLOSER THAN 6 FEET APART
NOT ALLOWED

VERTICAL REQUIREMENTS:

ZONE 1: POTABLE LINE 18" OVER NON-POTABLE LINE
Potable water and non-potable mains and service lines must be separated by at least 18 inches and
One full, uncut length of non-potable pipe must be centered on the crossing so that the joints are as far as possible from the crossing.

ZONE 2: POTABLE LINE 18" OVER NON-POTABLE LINE
One full, uncut length of non-potable pipe must be centered on the crossing so that the joints are as far as possible from the crossing.

ZONE 3: POTABLE WATER 18" UNDER NON-POTABLE LINE
Some requirements as Zone 2 except the non-potable line must also be supported above the crossing to prevent settling.

ZONE 4: POTABLE WATER 18" UNDER NON-POTABLE LINE
Some requirements as Zone 1 except the non-potable line must also be supported above the crossing to prevent settling.

GENERAL NOTES:

- Sewage force mains shall have at least ten feet of horizontal separation and eighteen inches of clearance from potable water mains. Zone 2 and 3 placements are prohibited.
- Separation requirements also apply to potable and non-potable service lines controlled by the system owner and extending the main line to the property line, service meter, or cleanout.

CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT	
POTABLE & NON-POTABLE WATERLINE SEPARATION	
APPROVED FOR PUBLICATION City Engineer	DWG. NO. 4-1

M:\Standards\2010-Standards\4-Water\Potable Nonpotable.dwg

EXTENSION PIECE

5 7/8"

13", 18", 24" AS SPECIFIED LENGTH

6 1/2"

6 1/2"

2"

WATER

EXISTING GROUND OR FINISHED GRADE

SEE ADJUST UTILITIES
SEE CITY STD DWG #1-10

VALVE BOX BASE
24" OR 36"

5 1/8"

CONCRETE APRON IF VALVE INSTALLED OUTSIDE PAVEMENT SECTION

LOCATE WIRE TO BE MIN. OF 30" (LONG ENOUGH TO BE PULLED UP & OUT TO ABOVE GROUND LEVEL).

LOCATE WIRE

VALVE

BEDDING

ORIGINAL GROUND

CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT	
GATE VALVE BOX WITH ASSEMBLY	
APPROVED FOR PUBLICATION City Engineer	DWG. NO. 4-2

M:\Standards\2010-Standards\4-Water\Cast Iron Valve Box.dwg

EXIST. GROUND OR FINISHED GRADE

12" MAX.

24" MIN. CLEAR

1

2

3

4

5

REQUIRED COMPONENTS

- CAP OR PLUG ON WATER MAIN
- 2" GALVANIZED PIPE
- 2" BALL VALVE
- 2" THREADED PLUG
- 24" HDPE PIPE
- OLYMPIC FOUNDRY MH-23 MANHOLE & COVER
- THRUST BLOCK OR RESTRAINTS (NOT SHOWN)

CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT	
COMBINATION BLOWOFF AND SAMPLING TAP	
APPROVED FOR PUBLICATION City Engineer	DWG. NO. 4-3

M:\Standards\2010-Standards\4-Water\Blowoff Sample.dwg

P-KAY METAL - SOUTHPORT PROJECT

STANDARD DETAILS

SOUTHPORT AVENUE

LEWISTON, IDAHO

REVISION DESCRIPTION

DATE

SCALE

SHEET SIZE D

CHECKED BY JSH

DRAWN BY MEE

DATE 03-25-16

JOB # 1805

SHEET C-10.1

DRAWING # 1605-C10.1

APPROVED FOR PUBLICATION
City Engineer

DWG. NO.
2-7

APPROVED FOR PUBLICATION
City Engineer

DWG. NO.
2-8

APPROVED FOR PUBLICATION
City Engineer

DWG. NO.
4-1

APPROVED FOR PUBLICATION
City Engineer

DWG. NO.
4-2

APPROVED FOR PUBLICATION
City Engineer

DWG. NO.
4-3

HEDCO

HAMMOND ENGINEERING & DEVELOPMENT CO.
528 BRYDEN AVENUE
LEWISTON, IDAHO 83501
(208) 756-9622

SHEET **C10.1**

BEARING AREA OF THRUST BLOCKS IN SO. FT.

Fitting Size	90° Bend Tee, Wye, Plug or Cap	45° Bend Plugged Cross, Tee	22 1/2° Bend	11 1/4° Bend
4	1.0	1.4	1.0	---
6	2.1	3.0	1.6	---
8	3.8	5.3	2.9	1.0
10	5.9	8.4	4.6	1.2
12	8.5	12.0	6.6	1.7
14	11.5	16.3	8.9	2.3
16	15.0	21.3	11.6	3.0
18	19.0	27.0	14.6	3.6
20	23.5	33.3	18.1	4.4
24	34.0	48.0	26.2	6.8

VOLUME OF THRUST BLOCK IN CU. YD.

Fitting Size	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

CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

THRUST BLOCKING DETAIL

APPROVED FOR PUBLICATION: *[Signature]* Date: 12/10/10
City Engineer

DWG. NO. 4-4

TYPICAL WATER METER LOCATION

TYPICAL WATER METER or UTILITY MARKER LOCATION

CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

APPROVED FOR PUBLICATION: *[Signature]* Date: 3/17/15
City Engineer

DWG. NO. 4-5

STANDARD 1.5" WATER SERVICE CONNECTION

CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

APPROVED FOR PUBLICATION: *[Signature]* Date: 3/17/15
City Engineer

DWG. NO. 4-8

FIRE HYDRANT W/ SHUT-OFF VALVE

CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

APPROVED FOR PUBLICATION: *[Signature]* Date: 5/6/15
City Engineer

DWG. NO. 4-12

WASTEWATER PRIVATE SERVICE CONNECTION

CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

APPROVED FOR PUBLICATION: *[Signature]* Date: 12/10/10
City Engineer

DWG. NO. 5-1

WASTEWATER PRIVATE SERVICE CONNECTION

CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

APPROVED FOR PUBLICATION: *[Signature]* Date: 12/10/10
City Engineer

DWG. NO. 5-1

WASTEWATER SERVICE TAP OPTIONS DETAIL

CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

APPROVED FOR PUBLICATION: *[Signature]* Date: 12/10/10
City Engineer

DWG. NO. 5-2

WASTEWATER TYPE 1 MANHOLE

CITY OF LEWISTON, IDAHO PUBLIC WORKS DEPARTMENT

APPROVED FOR PUBLICATION: *[Signature]* Date: 12/10/10
City Engineer

DWG. NO. 5-3

P-KAY METAL - SOUTHPORT PROJECT

STANDARD DETAILS

SOUTHPORT AVENUE

LEWISTON, IDAHO

HEDCO

HAMMOND ENGINEERING & DEVELOPMENT CO.
528 BRYDEN AVENUE LEWISTON, IDAHO 83501
(208) 798-5424

REVISION DESCRIPTION

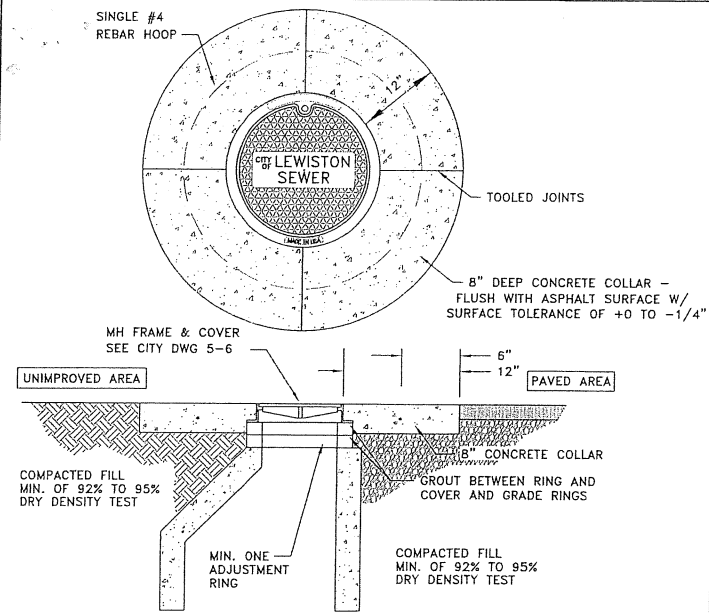
DATE

REVISED AS PER CITY ENGINEER COMMENTS

SCALE: DRAWING: MEE, JSH, JON, 1905, C10.2, DRAWING: 1605-C10.2

SHEET

C10.2



- NOTES:
1. A CIRCULAR-SHAPED CONCRETE COLLAR IS REQUIRED ON ALL INSTALLATIONS; IN BOTH PAVED OR UNIMPROVED AREAS, INSTALL A 6" THICK CONCRETE COLLAR THAT SHALL BE FLUSH WITH THE ASPHALT SURFACE WITH A SURFACE TOLERANCE OF +0 TO -1/4".
 2. CONCRETE SHALL BE 3,000 PSI MIN. AT 28 DAYS, WATER/CEMENT RATIO SHALL BE 0.5, 3" MAX. SLUMP AND 3% TO 6% ENTRAINED AIR WITH ONE #4 REBAR HOOP. FIBER-REINFORCED CONCRETE (ADDED PER MANUFACTURER'S RECOMMENDATIONS) MAY BE USED IN LIEU OF #4 REBAR.
 3. ALL EDGES WILL BE SEALED WITH CSSI OR APPROVED EQUAL; ALL TOP EDGES WILL BE TACKED AND SAND SEALED.
 4. UTILITY FRAMES AND LIDS ARE PREFERRED OUTSIDE OF WHEEL PATH, WHERE POSSIBLE.

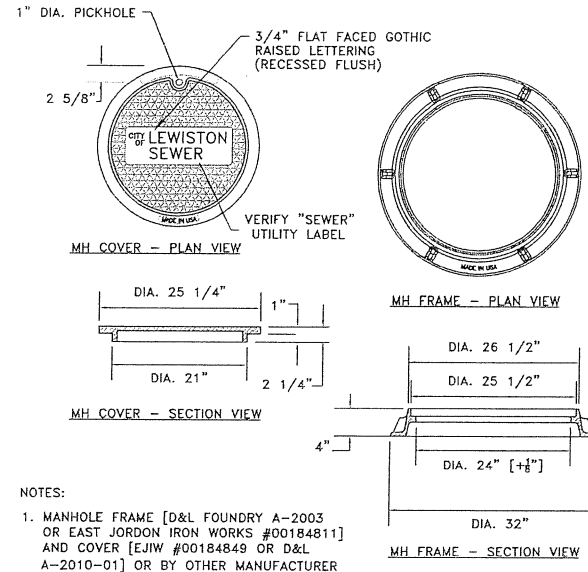
CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

**WASTEWATER
CONCRETE
MANHOLE COLLAR**

APPROVED FOR PUBLICATION
[Signature] 1/27/15
City Engineer Date

DWG. NO.
5-6

...15-SanitarySewerSS MH Collar.dwg



- NOTES:
1. MANHOLE FRAME [D&L FOUNDRY A-2003 OR EAST JORDON IRON WORKS #00184811] AND COVER [EJW #00184849 OR D&L A-2010-01] OR BY OTHER MANUFACTURER WILL BE ACCEPTABLE ONLY WITH WRITTEN APPROVAL FROM PUBLIC WORKS DEPT.; VERIFY "SEWER" UTILITY LABEL LETTERING ON COVER.
 2. COVER MATERIAL SPECIFICATION GRAY IRON (ASTM A48 CL35B)
 3. IN AREAS OF HIGH STORMWATER INFILTRATION, LIDS SHALL HAVE GASKETED AND BOLTED.

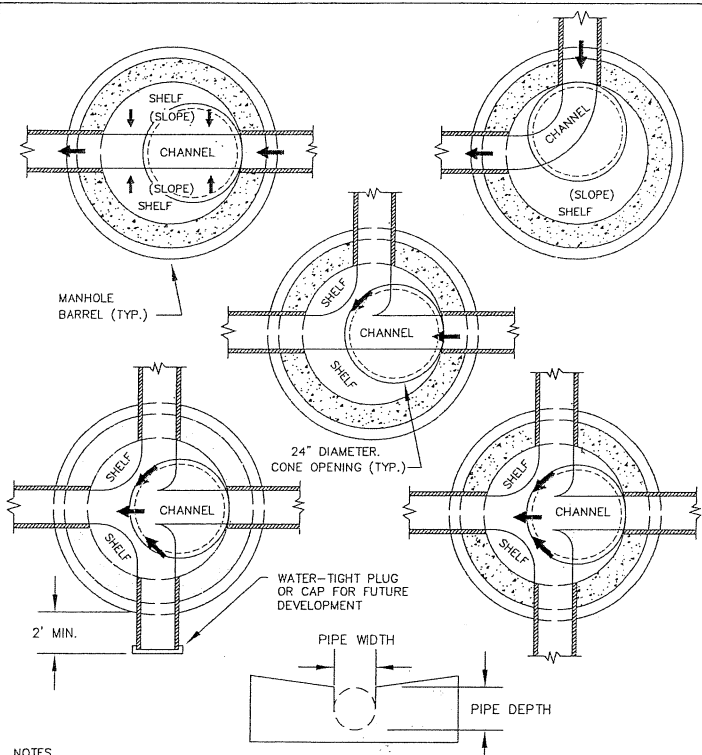
CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

**WASTEWATER
MANHOLE FRAME
AND COVER**

APPROVED FOR PUBLICATION
[Signature] 1/11/15
City Engineer Date

DWG. NO.
5-7

15-Standards12010-Standards15-SanitarySewerMH Frame_Cover.dwg



- NOTES:
1. SLOPE ALL SHELVES TO CHANNEL AT 1:12.
 2. SEE PLAN & PROFILE SHEETS FOR SLOPE OF CHANNEL.
 3. FOR PIPES OF DIFFERENT SIZES, THE TOP OF PIPE (CROWN) SHALL BE AT THE SAME ELEVATION.
 4. OFFSET CONE 24" DIAMETER OPENING CENTERED OVER UPSTREAM PIPE INVERT.

CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

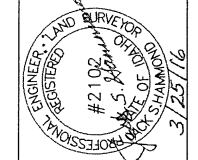
**WASTEWATER
MANHOLE CHANNEL
DETAIL**

APPROVED FOR PUBLICATION
[Signature] 9-27-15
City Engineer Date

DWG. NO.
5-8

...15-SanitarySewerChannelDetail.dwg

REV	DATE	DESCRIPTION	CHECKED	APPROVED



SCALE	SHEET SIZE	DRAWN BY	CHECKED BY
	D	MEE	JSH
		DATE	JOB #
		03-25-16	1605
		SHEET	C10.3
		DRAWING #	1605-C10.3

P-KAY METAL - SOUTHPORT PROJECT
STANDARD DETAILS
SOUTHPORT AVENUE
LEWISTON, IDAHO



SHEET
C10.3