CLEARVIEW EYE CLINIC AND SURGERY CENTER

CIVIL CONSTRUCTION PLANS

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)	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).			
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							
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				
3. WATER MAINS							
DUCTILE IRON or PVC WATER MAIN	AWWA C-151, C-900, C-905 (Class as Req'd)		Certified & Visual by City		Certified & Visual by 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 1½ 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		
4. WASTEWATER MAINS							
PVC WASTEWATER MAIN	PVC, SDR 35	ASTM 3034		N/A			
ALIGNMENT AND GRADE	N/A	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			
5. CONCRETE CURB, GUTTER & SIDEWALK							
CONCRETE	CLASS 35B - Approved Mix Design Required with Min Cement Content of 560 Lb/CY, Max Water/Cement Ratio of .44, a WRA, and an AEA	AASHTO T-22 Compressive Strength of Concrete AASHTO T-23 Making Test Specimens AASHTO T-119 Slump of Hydraulic Cement Concrete AASHTO T-152 Air Content of Freshly Mixed Concrete AASHTO T-309 Temperature of Freshly Mixed Concrete WAQTC TM-2 Sampling Freshly Mixed Concrete	Min. 28 day Compressive Strength = 3000 psi; Water/Cement Ratio shall be 0.5 lb/lb Max. Slump = 5 inches Air Content Percent = 6.0% ± 1.5 Temperature = 50°F - 80°F	1 of Each Test Minimum per Day, or 1 of Each Test per 50 CY			
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			
6. ASPHALTIC CONCRETE PAVING							
HOT MIX ASPHALT	ITD Class II 1/2" - App'd Mix Design Required (2004 ITD Spec 405, 702, and 703.05)	AASHTO T 166, Method C, Specific Gravity of HMA AASHTO T 209, Test for Maximum Specific Gravity WAQTC TM-8, In-Place Density of Bituminous Mixes	92%-95% Max. Theoretical Density	1Test Per 750 Ton-Min 1 Test			
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			
7. EROSION & SEDIMENT CONTROLS	Per Approved Plan	Per Plan and Manufacturers' Instructions		1/Wk or After Every Rainfall			
8. TRAFFIC CONTROL	Per Approved Plan	Current Adopted MUTCD/ATSSA		Continuous			
9. RECORD DRAWINGS	AutoCAD Elect File, Bond Paper, 22" x 34" Min Size	City Checklist		Before Public Improvements Accepted			
10. ENGINEER'S CERTIFICATION							
Date Last: Revised July 2014							

LEGEND

Symbol	Description	Symbol	Description
	PROPOSED A.C. PAVEMENT		EXISTING A.C. PAVEMENT
	PROPOSED CONCRETE		EXISTING CONCRETE
— SAN — SAN —	PROPOSED SAN. SEWER	- - SAN - - SAN - -	EXISTING SAN. SEWER
— SD — SD —	PROPOSED STORM SEWER	- - SD - - SD - -	EXISTING STORM SEWER
— V — V — V —	PROPOSED WATER LINE	- - V - - V - -	EXISTING WATER LINE
— F — F — F —	PROPOSED FIRE PROTECTION	- - F - - F - -	EXISTING FIRE PROTECTION
	PROPOSED CATCH BASIN		EXISTING CATCH BASIN
	PROPOSED MANHOLE		EXISTING MANHOLE
	PROPOSED GATE VALVE		EXISTING GATE VALVE
	PROPOSED FIRE HYDRANT		EXISTING FIRE HYDRANT
	PROPOSED THRUST BLOCK		EXISTING THRUST BLOCK
	PROPOSED WATER METER		EXISTING WATER METER
	PROPOSED POST INDICATOR VALVE		EXISTING POST INDICATOR VALVE
——XXXX——	PROPOSED CONTOUR LINE	— — XXXX — —	EXISTING CONTOUR LINE
XXXX	PROPOSED SPOT ELEVATION	*XXXX*	EXISTING SPOT ELEVATION
—— P/L ——	PROPERTY LINE	(E)XXXXXXX	EXISTING UTILITY
	CENTERLINE		
	SILT FENCE		
	GRADE BREAK LINE		

CONTACTS

OWNER

CLEARVIEW
2500 WEST STREET, SUITE 300
MOSCOW, ID 83483
PHONE: 208-882-4662
FAX: 208-882-6557

DESIGN-BUILD CONTRACTOR

KENASTON CORPORATION
2517 MAIN STREET, PO BOX 245
LEWISTON, ID 83501
PHONE: 208-746-1351
FAX: 208-746-1937

UTILITY PROVIDERS

SANITARY SEWER	CITY OF LEWISTON	208-746-1316
WATER	CITY OF LEWISTON	208-746-1316
POWER	AVISTA (DAVE FOWLER)	208-791-7150
TELECOM.	CENTURY LINK (JULIO MENDEZ)	208-798-8380
TELECOM.	XO (SEAN P. SCANLON)	509-444-8556
CABLE T.V.	CABLEONE (TOM DONAHUE)	208-791-5032

AS CONSTRUCTED 11/10/16 JSH
Hedco, Inc.
528 Bryden Ave
Lewiston, ID 83501

SHEET INDEX

REV LTR	DATE	REVISION DESCRIPTION	CHECKED	APPD.

PROFESSIONAL ENGINEER / LAND SURVEYOR REGISTERED #2102 STATE OF IDAHO JACK S. HAMMOND 11/14/14

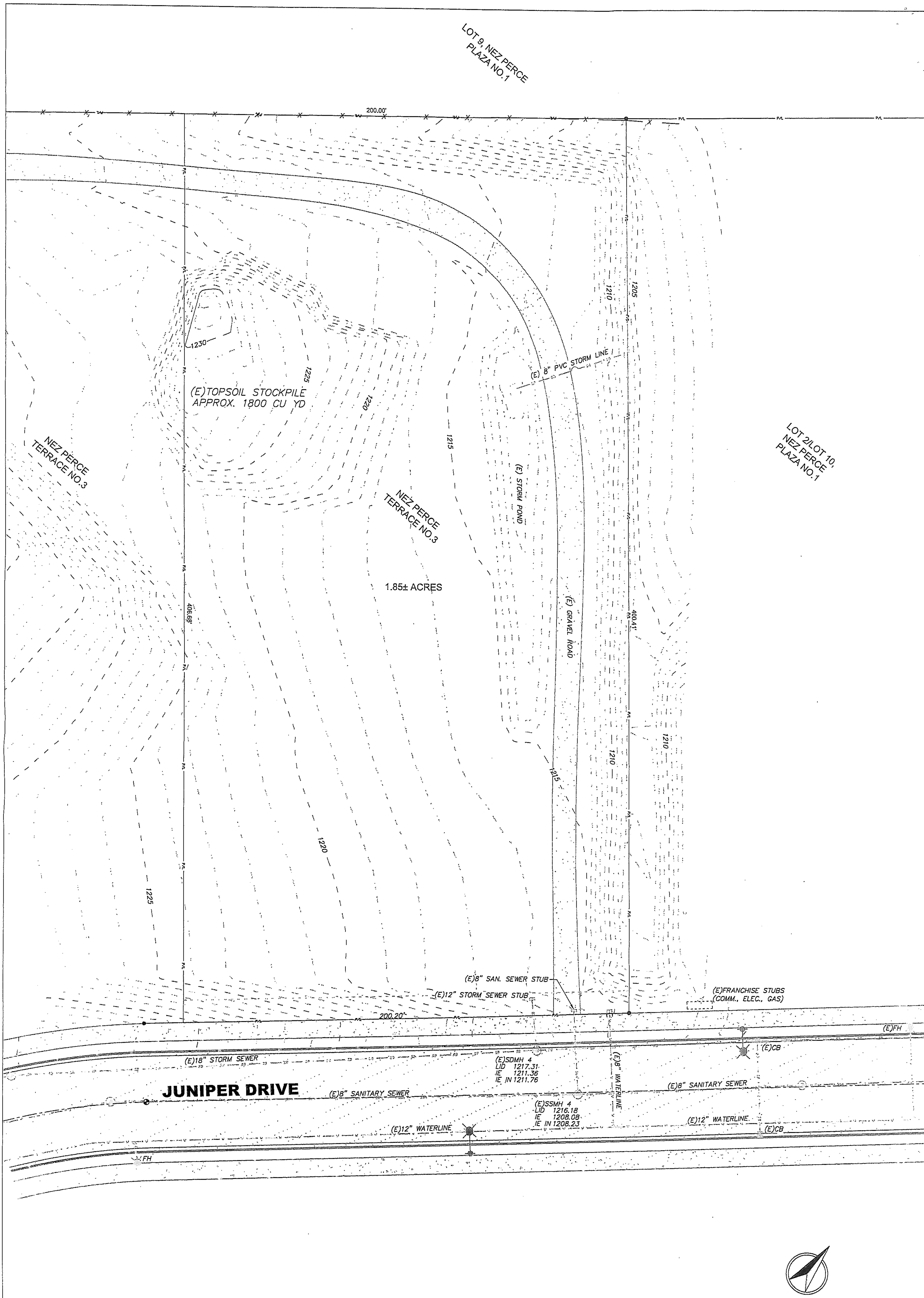
SCALE -	SHEET SIZE D
DRAWN BY MEE	CHECKED BY JSH
DATE 11-14-14	JOB # 1326
SHEET C	
DRAWING # 1326-C	

2014-11-14 REVIEW SET - NOT FOR CONSTRUCTION

CLEARVIEW EYE CLINIC AND SURGERY CENTER
CIVIL CONSTRUCTION PLANS
2840 JUNIPER DRIVE
LEWISTON, IDAHO

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

SHEET
C



20 0 20 40 60

Scale: 1" = 20' (24"x36" Sheet)
Scale: 1" = 40' (11"x17" Sheet)

ELEVATION BENCHMARK
CITY OF LEWISTON SURVEY CONTROL NETWORK (PT #13A)

SHEET		
C1	HEDCO HAMMOND ENGINEERING & DEVELOPMENT CO. 528 BRYDEN AVENUE LEWISTON, IDAHO 83501 (208) 798-5422	**CLEARVIEW EYE CLINIC AND SURGERY CENTER** **EXISTING SITE CONDITIONS** **2840 JUNIPER DRIVE** **LEWISTON, IDAHO**

SCALE	SHEET SIZE
1"=20'	D
DRAWN BY: MEE	CHECKED BY: JSH
DATE: 11-14-14	JOB #: 1326
SHEET: C1	
DRAWING #: 1326-C1	

PROFESSIONAL ENGINEER • LAND SURVEYOR
REGISTERED
#2102
STATE OF IDAHO
JACK S HAMMOND
11/14/14

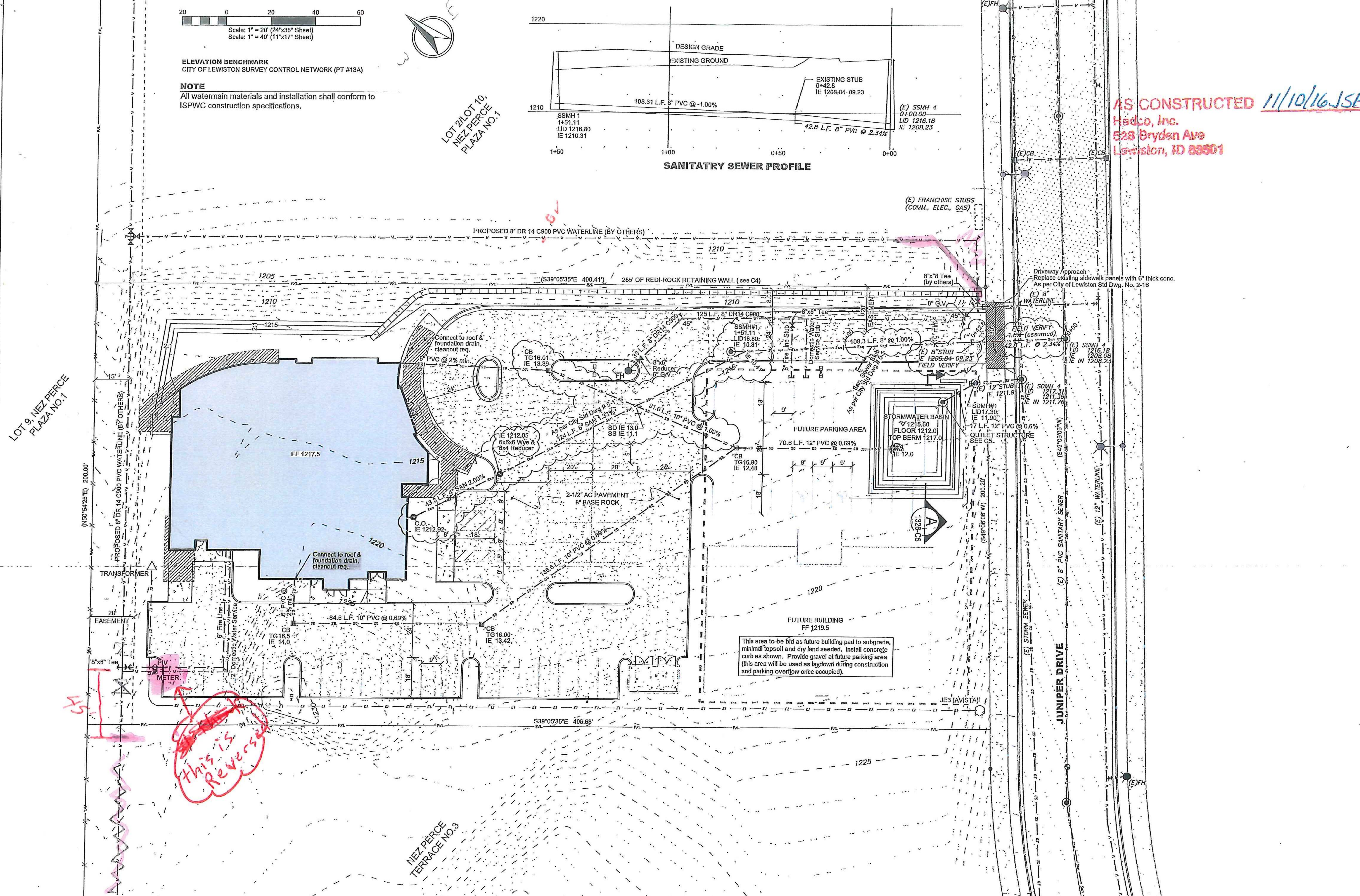
REV LTR	DATE	REVISION DESCRIPTION	CHECKED	APPD.

ELEVATION BENCHMARK
CITY OF LEWISTON SURVEY CONTROL NETWORK (PT #13A)

NOTE

All watermain materials and installation shall conform to ISPWC construction specifications.

Scale: 1" = 20' (24"x36" Sheet)
Scale: 1" = 40' (11"x17" Sheet)



AS CONSTRUCTED 11/10/16 JSH
Hedco, Inc.
528 Bryden Ave
Lewiston, ID 83501

REV LTR	DATE	REVISION DESCRIPTION	CHECKED	APPD.
A	11-14-14	Rev: Waterline alignment, SWD Pond location, Retaining Wall, Site grading		
B	11-17-14	Rev: Waterline annotation		
C	12-15-14	Rev: Waterline alignment; City review comments (12/09/14)		
D	02-10-15	Rev: Sanitary Sewer; Storm CB		
E	02-13-15	Rev: Invert error at San. C.O.		

SCALE	SHEET SIZE
1"=20'	D
DRAWN BY MEE	CHECKED BY JSH
DATE 10-07-14	JOB # 1326
SHEET C2	
DRAWING # 1326-C2	

CLEARVIEW EYE CLINIC AND SURGERY CENTER
SITE DEVELOPMENT PLAN
2840 JUNIPER DRIVE
LEWISTON, IDAHO

HEDCO
HAMMOND ENGINEERING & DEVELOPMENT CO.
528 BRYDEN AVENUE LEWISTON, IDAHO 83501
(208) 746-3122

SHEET
C2

Scale: 1" = 20' (24"x36" Sheet)
Scale: 1" = 40' (11"x17" Sheet)

ELEVATION BENCHMARK
CITY OF LEWISTON SURVEY CONTROL NETWORK (PT #13A)

NOTES:
1) All spot elevations at Top of Asphalt, unless otherwise noted.

AS CONSTRUCTED 11/10/16 JSH
Hedco, Inc.
528 Bryden Ave
Lewiston, ID 83501

SCALE 1"=20'	SHEET SIZE D
DRAWN BY MEE	CHECKED BY JSH
DATE 10-07-14	JOB # 1326
SHEET C3	
DRAWING # 1326-C3	

PROFESSIONAL ENGINEER · LAND SURVEYOR REGISTERED #2102 STATE OF IDAHO JACK S. HAMMOND 12/15/14

REV LTR	DATE	REVISION DESCRIPTION	CHECKED	APPD.
A	11-14-14	Rev: Waterline alignment, SWD Pond location, Retaining Wall, Site grading		
B	12-15-14	Rev: Waterline alignment: City review comments (12/08/14)		
C	03-04-15	Rev: FG		

CLEARVIEW EYE CLINIC AND SURGERY CENTER
SITE GRADING PLAN
2840 JUNIPER DRIVE
LEWISTON, IDAHO

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

SHEET
C3

AS CONSTRUCTED 11/10/16 JSH
Hedco, Inc.
528 Bryden Ave
Lewiston, ID 83501

SEE STRUCTURAL DESIGN CALCULATIONS, BY TERRITORIAL LANDWORKS, INC.

REV LTR.	DATE	REVISION DESCRIPTION	CHECKED	APPD.
A	11-14-14	Rev: Waterline alignment, SWD Pond location, Retaining Wall, Site grading		

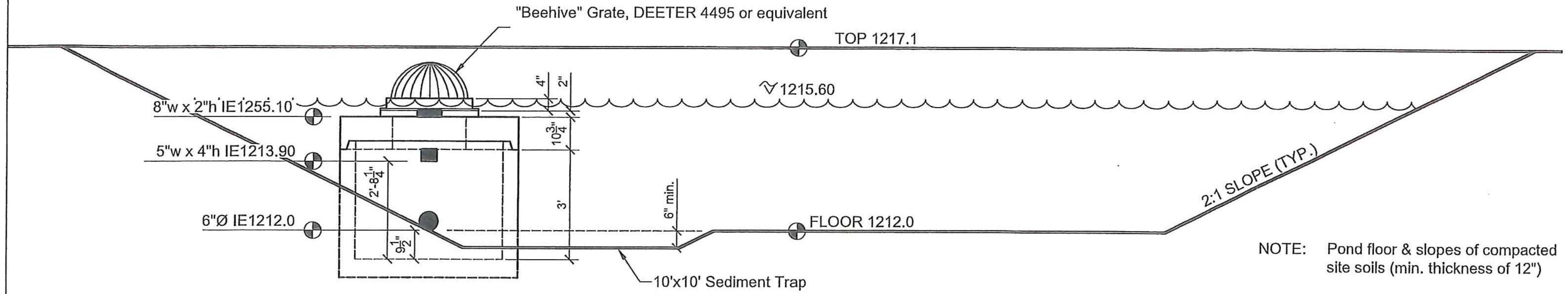
REGISTERED PROFESSIONAL ENGINEER • LAND SURVEYOR • #2102 • STATE OF IDAHO

SCALE	1"=20'
SHEET SIZE	D
DRAWN BY	MEE
CHECKED BY	JSH
DATE	11-10-14
JOB #	1326
SHEET	C4
DRAWING #	1326-C4

CLEARVIEW EYE CLINIC AND SURGERY CENTER
RETAINING WALL PLAN & PROFILE
2840 JUNIPER DRIVE
LEWISTON, IDAHO

HEDCO
HAMMOND ENGINEERING & DEVELOPMENT CO.
528 BRYDEN AVENUE, LEWISTON, IDAHO 83501
(208) 799-5422

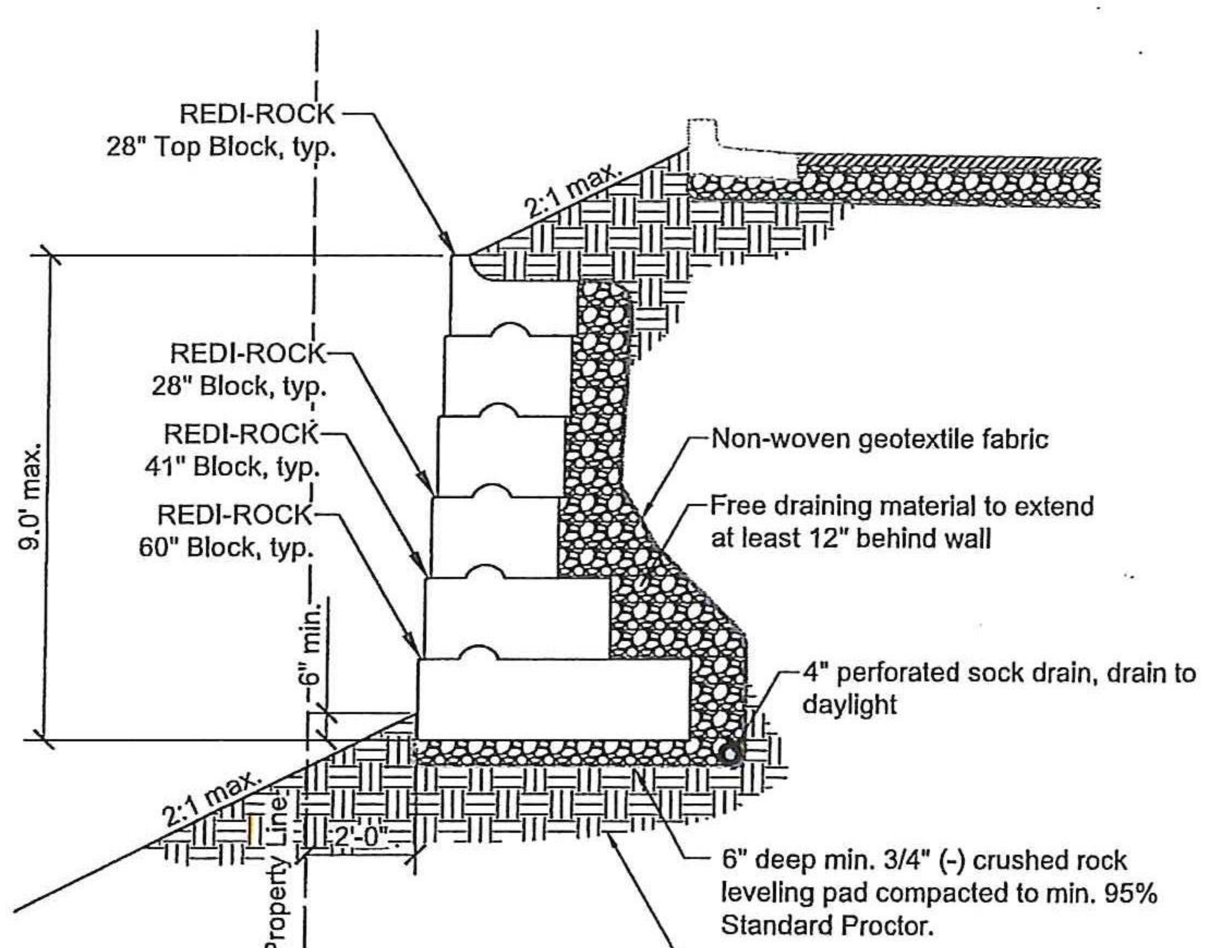
SHEET
C4



STORMWATER DETENTION POND & OUTLET STRUCTURE

DETAIL A
NO SCALE 1326-C1

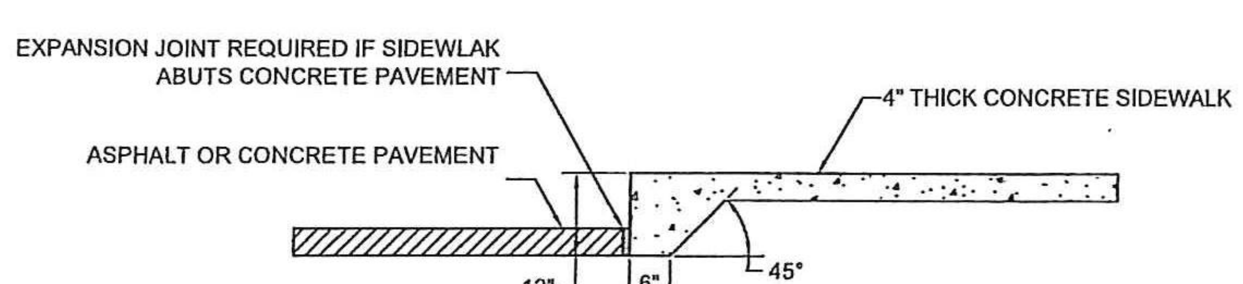
AS CONSTRUCTED 11/10/16 JSH
Hedco, Inc.
528 Bryden Ave
Lewiston, ID 83501



SEE STRUCTURAL DESIGN CALCULATIONS, BY TERRITORIAL LANDWORKS, INC.

REDI-ROCK RETAINING WALL

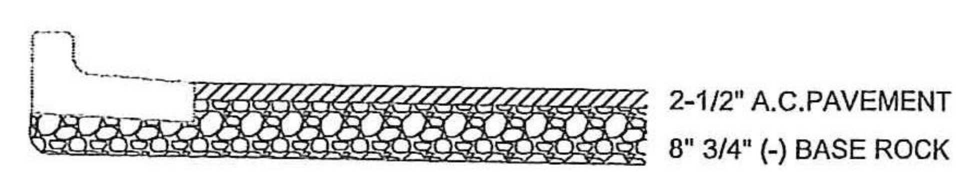
DETAIL B
NO SCALE 1326-C3



SIDEWALK - THICKENED EDGE DETAIL

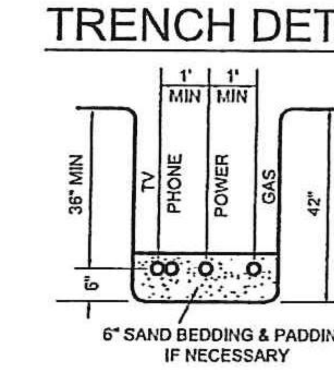
N.T.S.

THICKENED EDGE SIDEWALK SHALL BE INSTALLED WHEN SIDEWALK ABUTS PAVED PARKING AREA.

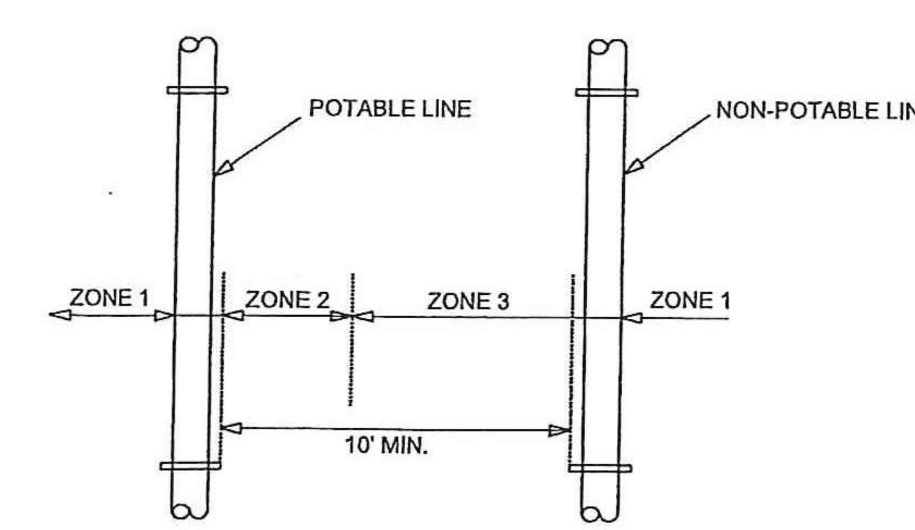


PARKING LOT X-SECTION

FRANCHISE UTILITIES TRENCH DETAIL



LINE SEPARATIONS



ZONE 1: (MORE THAN 10 FEET APART)

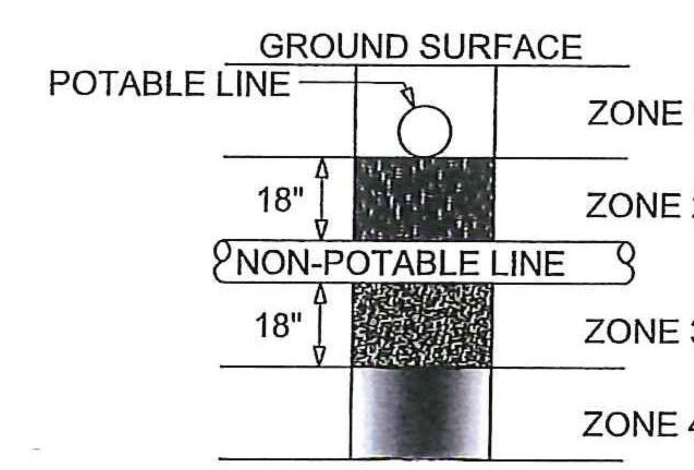
ZONE 2: (FROM 6 TO 10 FEET APART)
* Potable and Non-Potable mains separated by at least 6 feet at outside walls and
* Potable main higher in elevation than Non-Potable mains and
* Non-Potable mains constructed to with Potable water class pipe and pressure tested for water-tightness.

Zone 3 : (CLOSER THAT 6 FEET APART)
* For Mains and Services, Design Engineer to submit data to Department for review and approval that this intuallation will protect public health and environment and non-potable line constructed with potable water class pipe.

NOTES:

1. ALL EARTHWORK SHALL BE COMPACTED TO 95% OF AASHTO T-99 PROCTOR VALUE.
2. ALL POTABLE WATER LINES RUNNING FROM MAIN TO METERS WILL BE 2" AND METERS WILL BE 1" TYP.
3. SANITARY SEWERS SHALL HAVE 3.0' MIN. COVER & SERVICE LATERALS SHALL HAVE 2.0% MIN. GRADE. STORM DRAINS SHALL HAVE 2.0' MIN. COVER
4. ALL PARKING & DRIVEWAY AREAS ARE TO BE PAVED WITH 2.5" A.C. & 8" AGGREGATE BASE ROCK OVER GEOTEXTILE FABRIC.
5. ALL PARKING STALLS ARE TO BE PERMANENTLY MARKED WITH STRIPES AND SIGNS AT THE HANDICAP STALLS, TO LEWISTON CITY STANDARDS.
6. ALL WORK DONE WITHIN CITY RIGHT OF WAY TO BE DONE IN ACCORDANCE WITH CITY STANDARDS.
7. WATER MAIN PIPING, FIRE HYDRANTS AND VALVES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH CITY OF LEWISTON STANDARDS.
8. SANITARY SEWER PIPING AND MANHOLES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH CITY OF LEWISTON STANDARDS.
9. ALL AVISTA CONDUITS WILL BE SCHEDULE 40 GRAY ELECTRICAL CONDUIT (LARGE SWEEPS, LONG COUPLERS)
10. A RIGHT-OF-WAY PEMIT SHALL BE OBTAINED THROUGH THE PUBLIC WORKS DEPARTMENT PRIOR TO ANY WORK WITHIN PUBLIC RIGHT-OF-WAY.
11. SITE DISTANCES FOR ABUTTING PROPERTIES, DRIVEWAYS AND INTERSECTIONS SHALL BE MAINTAINED.
12. 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 STREET RIGHT-OF-WAY, AN TO ELIMINATE TRACKING SOIL AND MUD ONTO STREETS FROM CONSTRUCTION EQUIPMENT AND VEHICLES. THE DEVELOPER IS RESPONSIBLE FOR STREET CLEANUP AT THE END OF EACH SHIFT.
13. ALL CONSTRUCTION NOT SPECIFICALLY MENTIONED OR SHOWN SHALL CONFORM TO CITY ORDINANCES AND STANDARDS.

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 58.01.01.542.07: Idaho Rules for Public Drinking Water Systems and IDAPA 58.01.16.430.o Idaho Wastewater Rules.

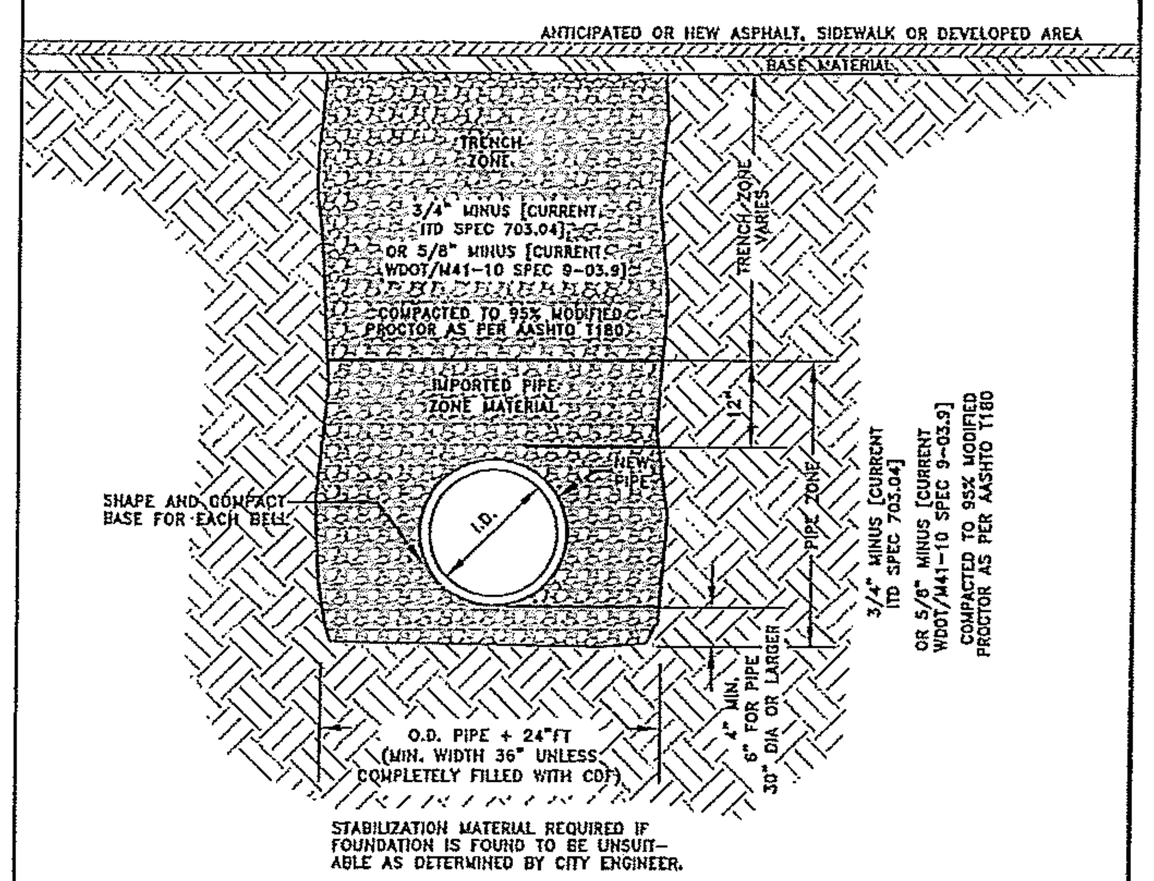
REV LTR.	DATE	REVISION DESCRIPTION	CHECKED	APPD.
A	11-14-14	Rev: Waterline alignment, SWD Pond location, Retaining Wall, Site grading		

SCALE | SHEET SIZE D | DRAWN BY MEE | CHECKED BY JSH | DATE 10-07-14 | JOB # 1326 | SHEET C5 | DRAWING # 1326-C5

CLEARVIEW EYE CLINIC AND SURGERY CENTER
DETAILS
2840 JUNIPER DRIVE
LEWISTON, IDAHO

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

SHEET
C5



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

NOTES:

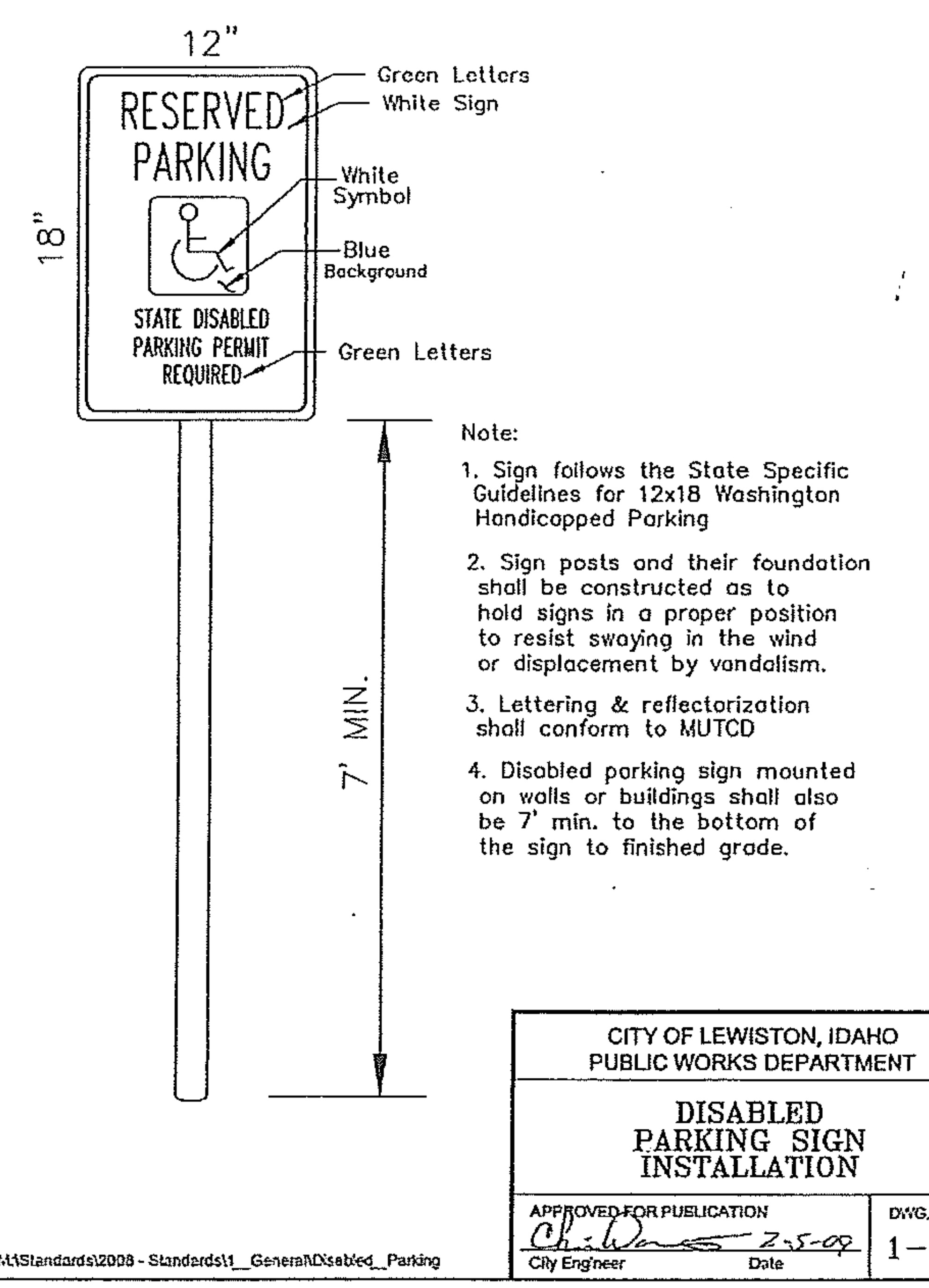
1. CONTRACTOR SHALL COMPLY WITH THE MOST CURRENT OSHA REQUIREMENTS FOR EXCAVATIONS.
2. CLASS 'D' BACKFILL SHALL COMPLY WITH REQUIREMENTS OF THE CITY'S STANDARDS CONSTRUCTION SPECIFICATIONS.
3. TRENCH MATERIAL SHALL BE PLACED IN MAX. OF 6" LIFTS.
4. IN EXISTING RIGHT-OF-WAY TRENCH EXCAVATION SHALL NOT 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

BACKFILL CLASS 'D'

APPROVED FOR PUBLICATION 3/5/13
City Engineer Date
DWG. NO. 1-6

...\Current Stds\1-General\BackFill_ClassD.dwg



Note:

1. Sign follows the State Specific Guidelines for 12x18 Washington Handicapped Parking
2. Sign posts and their foundation shall be constructed as to hold signs in a proper position to resist swaying in the wind or displacement by vandalism.
3. Lettering & reflectorization shall conform to MUTCD
4. Disabled parking sign mounted on walls or buildings shall also be 7' min. to the bottom of the sign to finished grade.

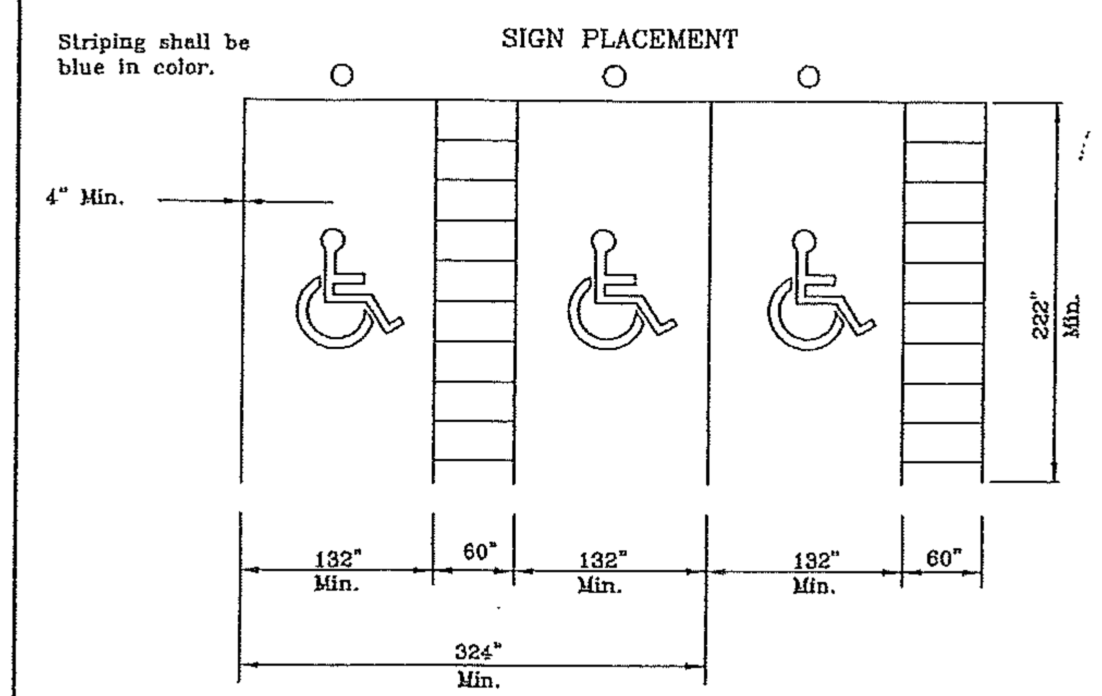
CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

DISABLED PARKING SIGN INSTALLATION

APPROVED FOR PUBLICATION 2-5-09
City Engineer Date
DWG. NO. 1-13

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

TYPICAL DISABLED PARKING STALL



Notes:

1. The international accessibility symbol as provided in section 49-410 Idaho Code shall be painted in each space.
2. Disabled parking stalls and access aisles shall not slope more than 2% in any direction.
3. If a curb ramp is required, it cannot project into the access aisle.
4. Each access aisle must connect directly to an accessible route.
5. Intent of this standard is to conform to ADA and ANSI requirements. These requirements shall take precedence over this standard.

CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

DISABLED PARKING STALLS

APPROVED FOR PUBLICATION 2-5-09
City Engineer Date
DWG. NO. 1-14

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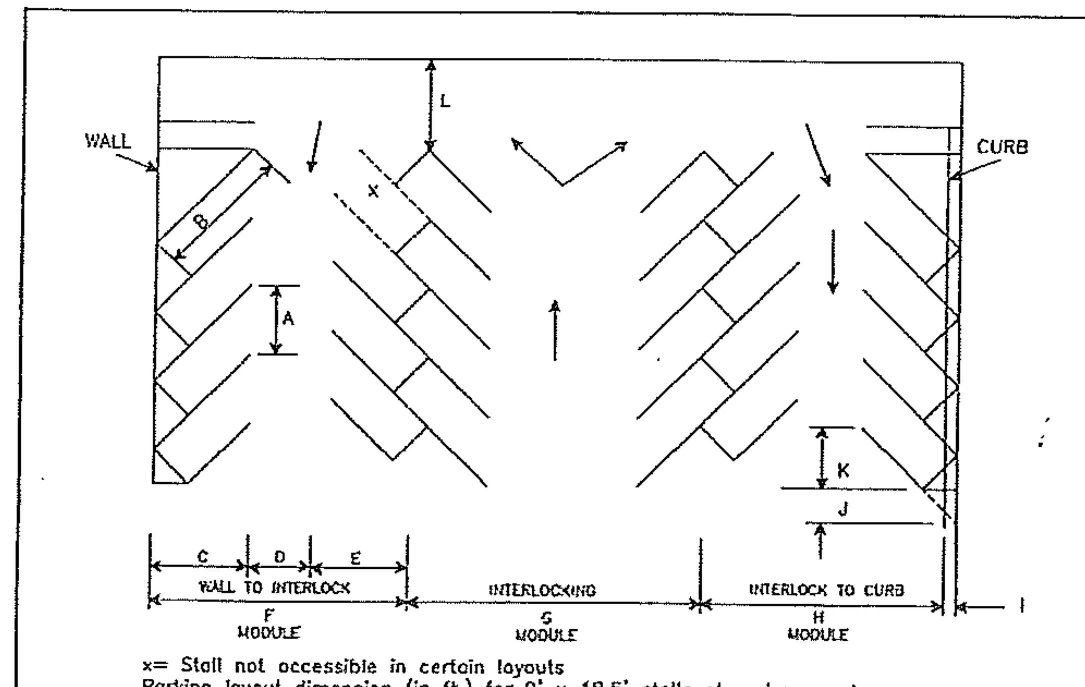

x= Stall not accessible in certain layouts
Parking layout dimension (in ft.) for 9' x 18.5' stalls at various angles.

Dimension	On diagram	Angle 45'	60'	75'	90'
Stall width, parallel to aisle	A	12.7	10.4	9.3	9.0
Stall length of line	B	27.5	23.7	20.9	18.5
Stall depth to wall	C	19.5	20.5	20.0	18.5
Aisle width between stall lines	D	12.0	16.0	23.0	26.0
Stall depth, interlock	E	16.5	18.5	18.5	18.5
Module, wall to interlock	F	46.0	55.0	62.0	63.0
Module, interlocking	G	45.0	53.0	61.0	63.0
Module, interlock to curb face	H	46.0	53.2	59.5	60.5
Bumper overhang (typical)	I	2.0	2.3	2.5	2.5
Offset	J	6.4	2.6	0.6	0.0
Setback	K	13.1	9.3	4.8	0.0
Cross aisle, one-way	L	14.0	14.0	14.0	14.0
Cross aisle, two-way	–	24.0	24.0	24.0	24.0

The minimum width of parking stalls is 9 ft., however the recommended stall width for high turnover parking lots is 10 ft. The inclusion of handicapped parking is required by City Code Sec. 37-148.

Parallel parking stalls shall be 8' wide x 23' long.

CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

PARKING LAYOUT DIMENSIONS

APPROVED FOR PUBLICATION 2-5-09
City Engineer Date
DWG. NO. 1-15

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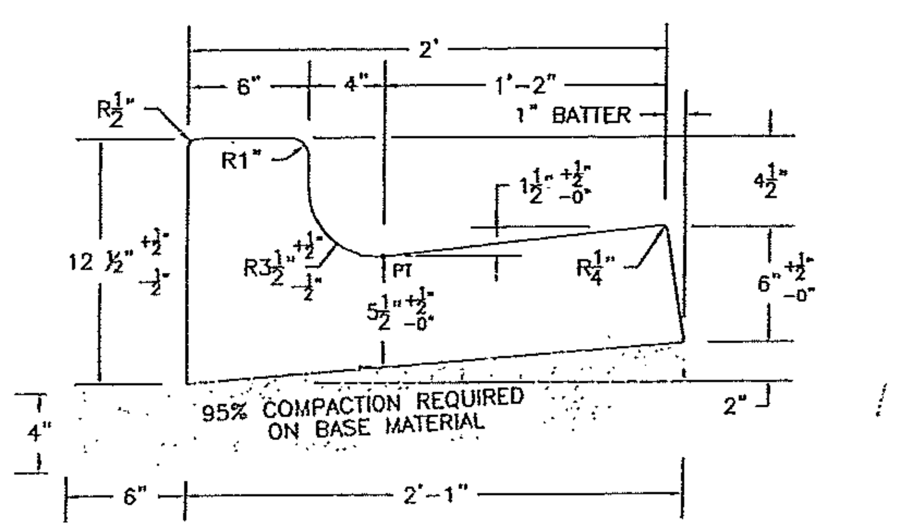
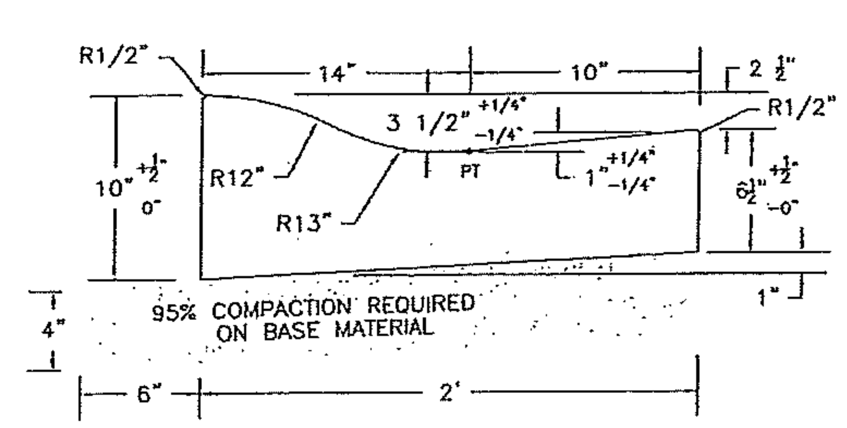


HIGH BACK CURB & GUTTER



ROLLED CURB & GUTTER

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 2-5-09
City Engineer Date
DWG. NO. 2-7

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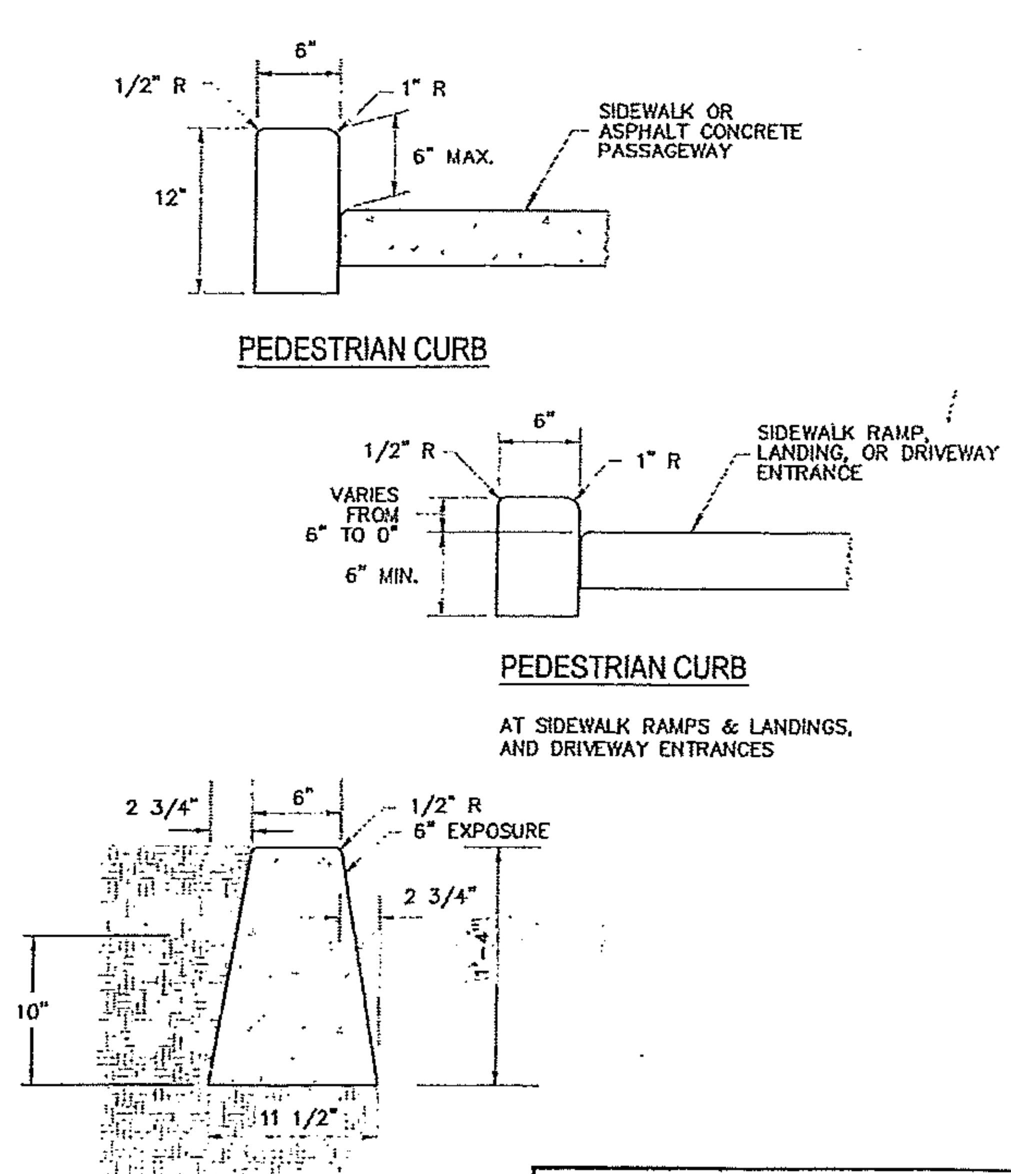

CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

PEDESTRIAN CURB AND TYPE 'A' CURB

APPROVED FOR PUBLICATION 2-5-09
City Engineer Date
DWG. NO. 2-9

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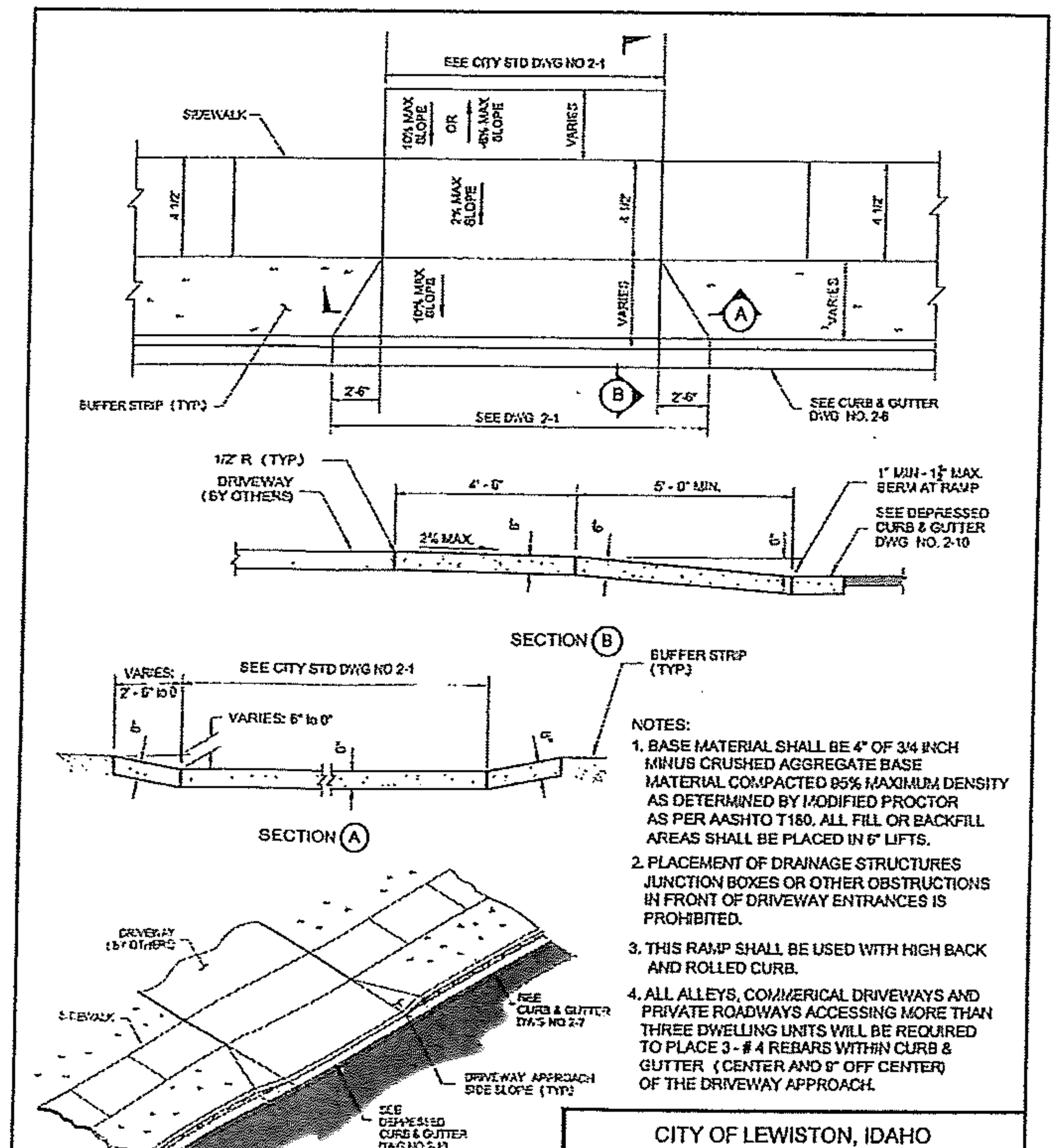

NOTES:

1. BASE MATERIAL SHALL BE 4" OF 3/4 INCH MINUS CRUSHED AGGREGATE BASE MATERIAL COMPACTED 95% MAXIMUM DENSITY AS DETERMINED BY MODIFIED PROCTOR AS PER AASHTO T180. ALL FILL OR BACKFILL AREAS SHALL BE PLACED IN 6" LIFTS.
2. PLACEMENT OF DRAINAGE STRUCTURES JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF DRIVEWAY ENTRANCES IS PROHIBITED.
3. THIS RAMP SHALL BE USED WITH HIGH BACK AND ROLLED CURB.
4. ALL ALLEYS, COMMERICAL DRIVEWAYS AND PRIVATE ROADWAYS ACCESSING MORE THAN THREE DWELLING UNITS WILL BE REQUIRED TO PLACE 3 - # 4 REBARS WITHIN CURB & GUTTER (CENTER AND 9" OFF CENTER) OF THE DRIVEWAY APPROACH.

CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

DRIVEWAY APPROACH SPLIT APRON SIDEWALK

APPROVED FOR PUBLICATION 2/21/13
City Engineer Date
DWG. NO. 2-16

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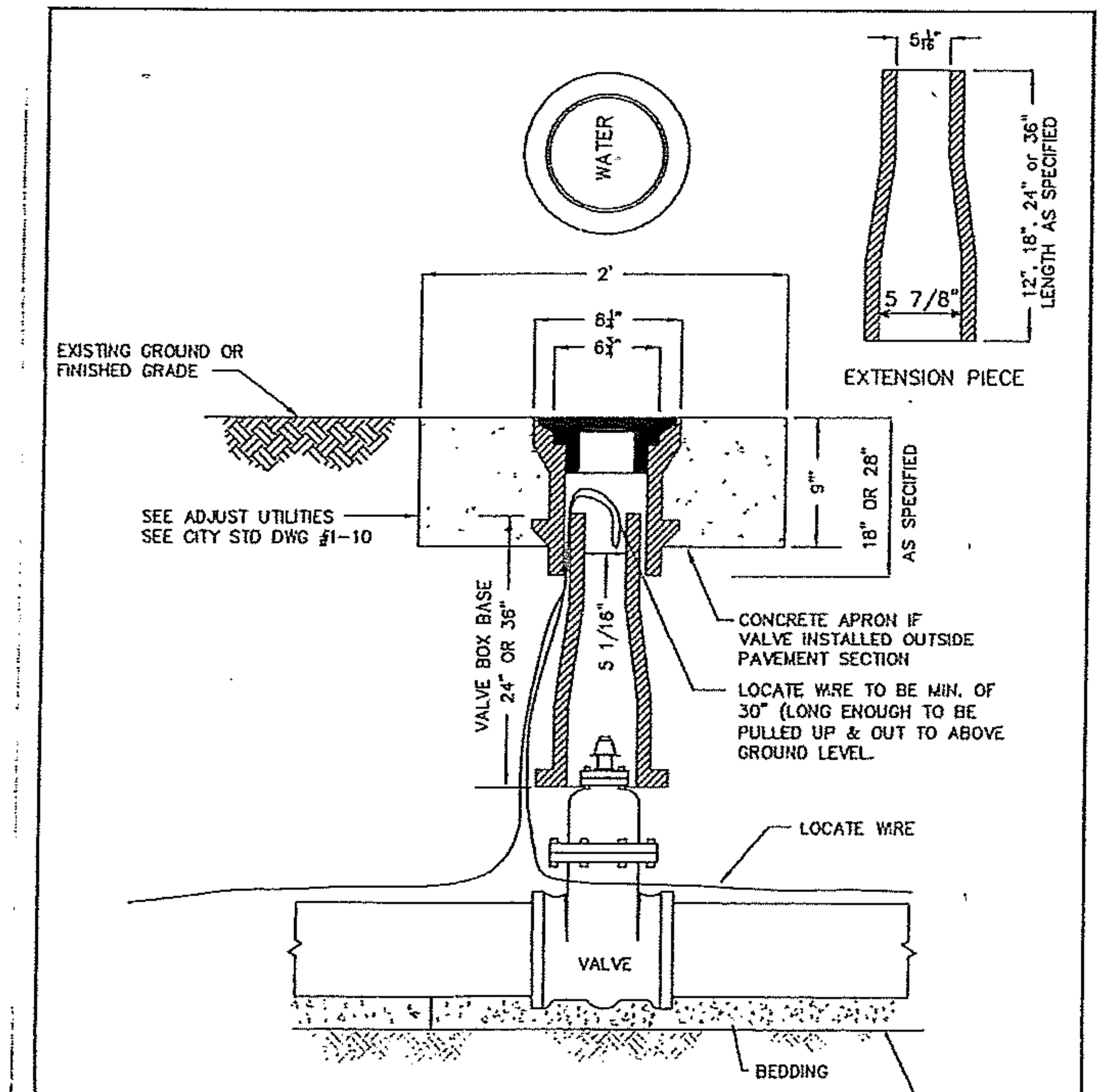


CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

GATE VALVE BOX WITH ASSEMBLY

APPROVED FOR PUBLICATION 11-5-09
City Engineer Date
DWG. NO. 4-2

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

REV LTR	DATE	REVISION DESCRIPTION	CHECKED	APPD.

PROFESSIONAL ENGINEER • LAND SURVEYOR
REGISTERED
#2102
STATE OF IDAHO
11/14/14

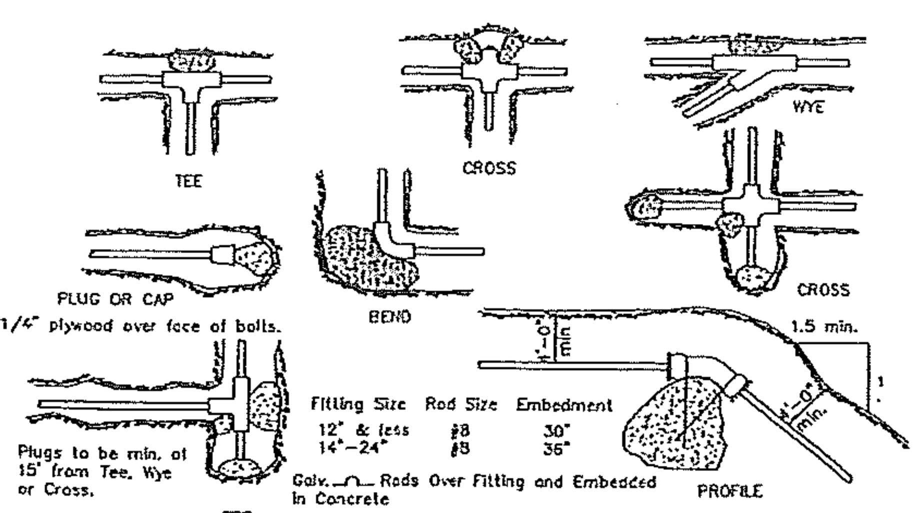
SCALE	SHEET SIZE D
DRAWN BY MEE	CHECKED BY JSH
DATE 10-14-14	JOB # 1326
SHEET C6	
DRAWING # 1326-C6	

CLEARVIEW EYE CLINIC AND SURGERY CENTER
STANDARD DETAILS
2840 JUNIPER DRIVE
LEWISTON, IDAHO

HEDCO

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

SHEET
C6



Fitting Size	BEARING AREA OF THRUST BLOCKS IN SQ. FT.				
	Tee, Wye, Plub 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:

VOLUME = (150 p.s.i. test pressure) x (table value).

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

NOTES:
1. 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).
2. Concrete thrust blocking to be placed against undisturbed earth.
3. Keep concrete clear of joint and accessories.
4. The required thrust bearing areas for special connections are shown encircled on the plans; e.g. 15 indicates 15 sq. ft. bearing area required.
5. 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.

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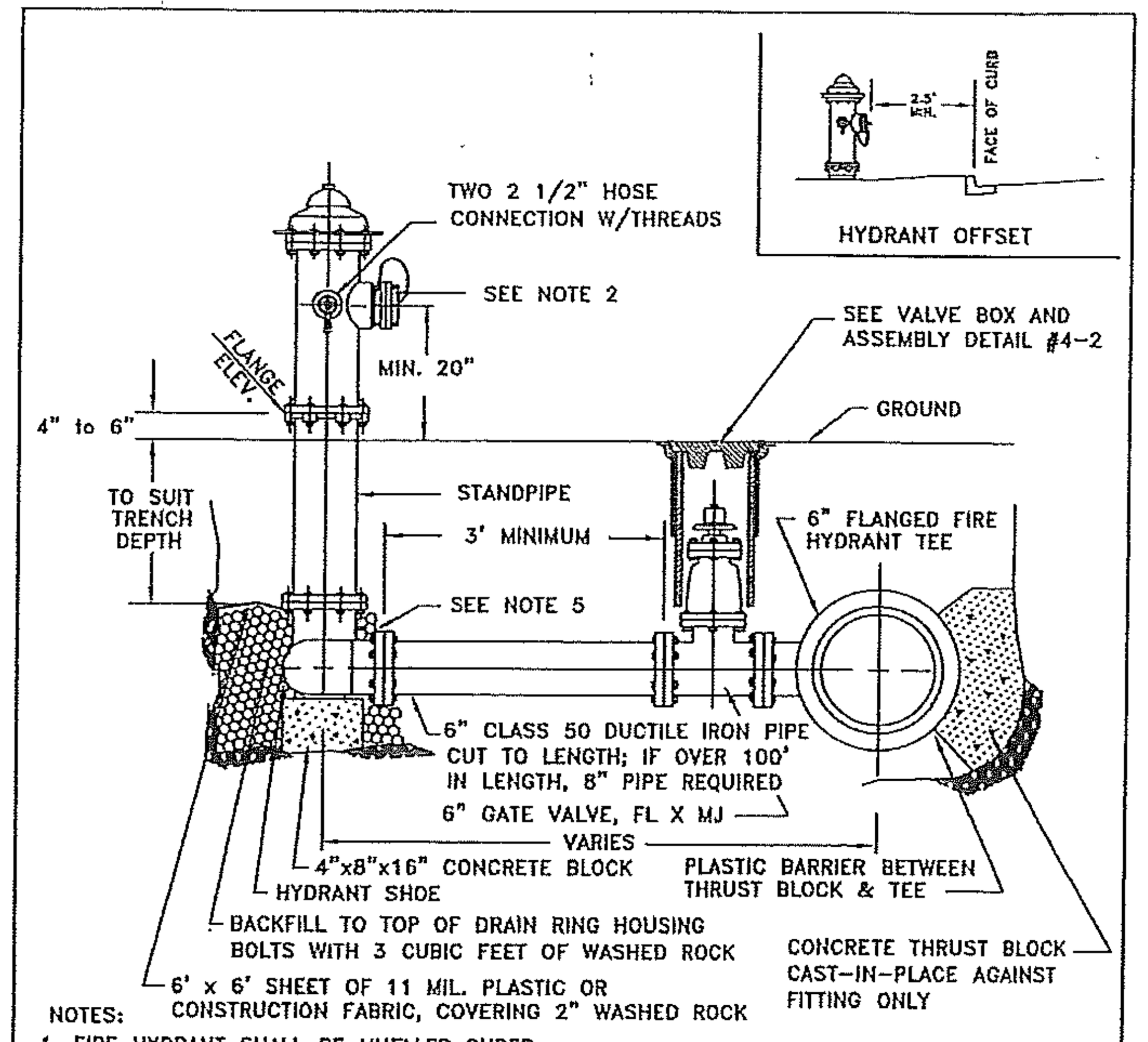
CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

THRUST BLOCKING DETAIL

APPROVED FOR PUBLICATION 11-9-09
City Engineer Date
DWG. NO. 4-4



NOTES:
1. FIRE HYDRANT SHALL BE MUELLER SUPER CENTURION, WATEROUS PACER WITH 16" UPPER STANDPIPE OR EAST JORDAN IRON WORKS WATERMASTER.
2. 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.
3. FIRE HYDRANT SHALL BE SPACED AT A MAX. OF 500 FEET IN RESIDENTIAL AREAS AND 300 FEET IN COMMERCIAL AREAS.
4. A MINIMUM 3 FOOT RADIUS OF UNOBSTRUCTED WORKING AREA SHALL BE PROVIDED AROUND ALL HYDRANTS.
5. GRIP PACKS OR ALL THREAD REQUIRED WITH THRUST BLOCK.

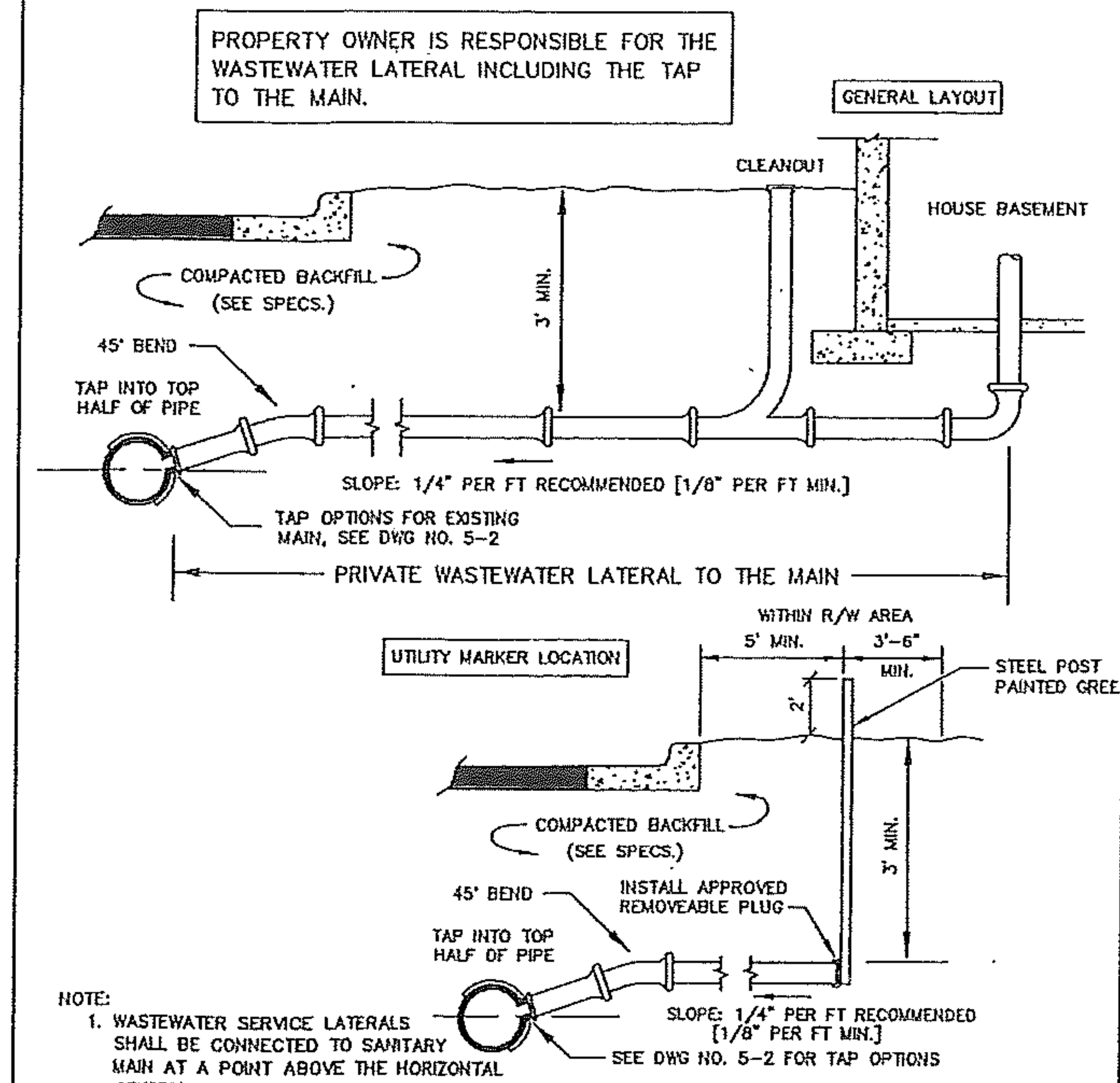
... Standards\2010-Standards\4-Water\Fire Hydrant.dwg

CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

FIRE HYDRANT W/ SHUT-OFF VALVE

APPROVED FOR PUBLICATION oct 3, 13
City Engineer Date
DWG. NO. 4-12

PROPERTY OWNER IS RESPONSIBLE FOR THE WASTEWATER LATERAL INCLUDING THE TAP TO THE MAIN.



NOTE:
1. WASTEWATER SERVICE LATERALS SHALL BE CONNECTED TO SANITARY MAIN AT A POINT ABOVE THE HORIZONTAL CENTERLINE OF THE PIPE BUT NOT DIRECTLY TO THE TOP OF THE MAIN.
2. ALL CONNECTIONS AND WASTEWATER LINES CONNECTING WITH THE PUBLIC SYSTEM SHALL BE WATERTIGHT AND NO LESS THAN 4" IN DIAMETER FOR ALL NEW CONNECTIONS EXCEPT FOR 2" DIAMETER PRESSURE CONNECTIONS TO GRAVITY MAINS.
3. FLOOR DRAINS SUBJECT TO BACK PRESSURE OR BASEMENT DRAINS LESS THAN 1' ABOVE THE NEAREST ADJACENT SEWER MANHOLE SHALL BE EQUIPPED WITH AN APPROVED BACKWATER VALVE (SEE CITY SEC. 36-43).

\Standards\2010-Standards\5-Sanitary\SS Service Connection.dwg

CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

WASTEWATER PRIVATE SERVICE CONNECTION

APPROVED FOR PUBLICATION 12/13/10
City Engineer Date
DWG. NO. 5-1

GENERAL NOTES FOR STORMWATER SYSTEMS

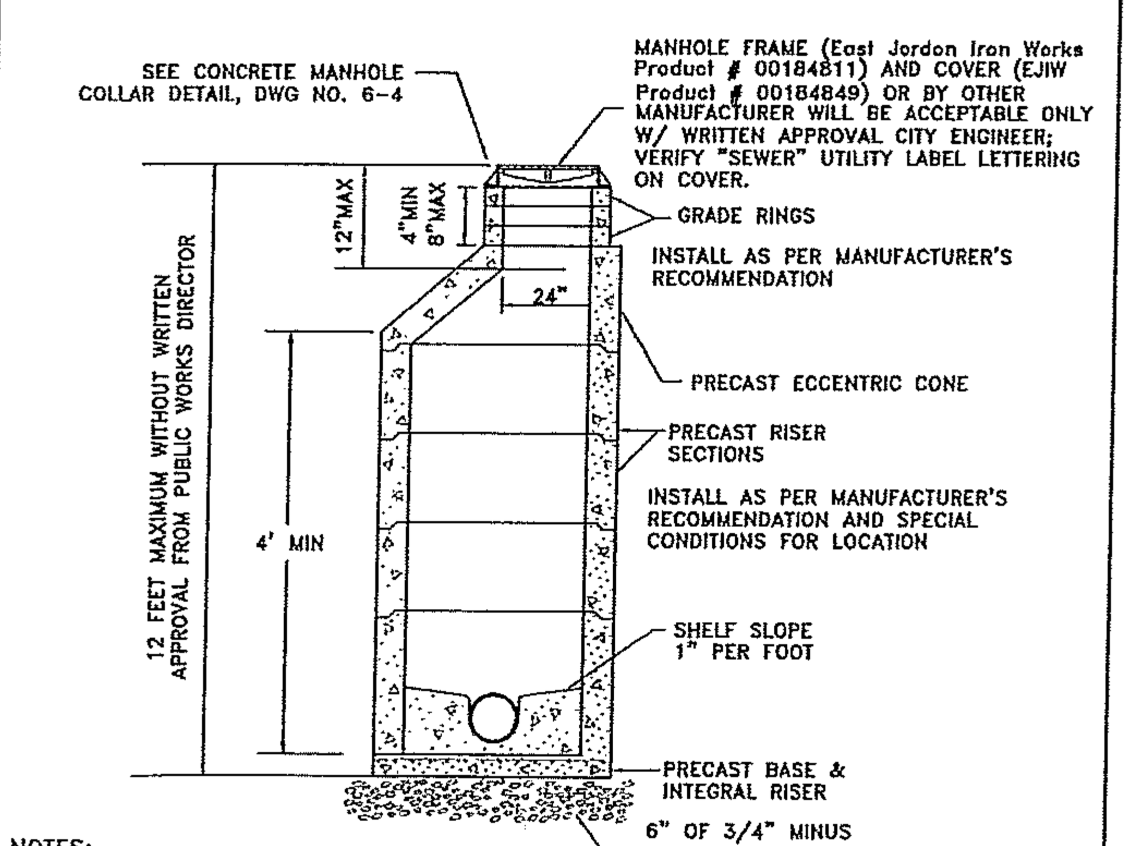
1. ALL WORK SHALL CONFORM TO CURRENT 'IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION' (ISPWC) SPECIFICATIONS AND THE CITY OF LEWISTON STANDARDS AND SPECIFICATIONS. IN THE CASE OF CONFLICT, CITY STANDARDS SHALL PREVAIL. THE 'LEWISTON STORMWATER POLICY AND DESIGN MANUAL' DEFINES THE POLICIES, MINIMUM STANDARDS, REQUIREMENTS, AND PROCEDURES FOR THE DESIGN, CONSTRUCTION, AND MAINTENANCE OF PRIVATE STORMWATER SYSTEMS.
2. ANY REPAIR, MAINTENANCE OR ALTERATION OF A PUBLIC STORM LINE OR DRAINAGE MUST BE APPROVED BY CITY ENGINEER.
3. THE CONTRACTOR MUST SECURE APPROVAL FROM THE CITY ENGINEER PRIOR TO ADDING OR REMOVING FILL BACKFILL OVER PUBLIC STORM DRAIN MAINLINE.
4. THE ENGINEERING INSPECTOR SHALL BE NOTIFIED AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO COMMENCING WORK ON STORM DRAINS.
5. ALL PUBLIC STORM DRAIN LINES SHALL BE VIDEOTAPED AND SUBMITTED TO THE PUBLIC WORKS DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO PAVING. CITY SHALL HAVE FORTY-EIGHT (48) HOURS FOR REVIEW.
6. ALL MANHOLES AND CATCH BASINS SHALL BE INSPECTED TWICE BY THE ENGINEERING INSPECTOR – ONCE PRIOR TO BACKFILL AND THEN PRIOR TO ACCEPTANCE OF IMPROVEMENTS. CALL (208) 791-8453 OR 746-1316 FOR INSPECTION SCHEDULING.
7. CLOSED CONDUITS (OR PIPELINES) FOR STORMWATER CONVEYANCE IN THE CITY'S STORMWATER SYSTEM MUST BE A MINIMUM OF 12 INCH DIAMETER. THE PIPE MATERIAL MAY BE PLASTIC, STEEL, REINFORCED CONCRETE OR AN APPROVED MATERIAL, BUT MUST MEET CITY 605.02 SPECIFICATIONS IF PART OF THE CITY'S STORMWATER SYSTEM.
8. MINIMUM PIPE SLOPE SHALL BE 0.5% AND MINIMUM DESIGN VELOCITY WHEN FLOWING FULL SHALL BE NOT LESS THAN 2 FEET PER SECOND AND MAXIMUM VELOCITY SHOULD NOT BE MORE THAN 8 FEET PER SECOND.
9. JUNCTIONS OF 3 OR MORE PIPES, CHANGES IN ALIGNMENT, SLOPE AND/OR CHANGES IN PIPE DIAMETER SHALL BE MADE ONLY AT CATCH BASINS OR MANHOLES.
10. STEEP SLOPE INSTALLATION SHALL BE INSTALLED AS PER MANUFACTURES PIPE SPECIFICATIONS.
11. MANHOLE SHALL BE INSTALLED AT THE END OF EACH LINE, AT ALL CHANGE IN SIZE OR ALIGNMENT, AT DISTANCE NOT GREATER THAN 350 FEET OR AT CITY ENGINEER'S REQUIRED SPACING. ALL OTHER CHANGES IS SPACING MUST HAVE WRITTEN APPROVAL FROM PUBLIC WORKS DEPARTMENT.
12. LOCATING WIRE SHALL BE INSTALLED WITH ALL PUBLIC STORM PIPE INSTALLATIONS. SEE CITY DWG 1-8, 'IDENTIFYING TAPE DETAIL'.
13. CATCH BASINS AND MANHOLES SHALL BE ACCESSIBLE TO VEHICLES AND EQUIPMENT FOR MAINTENANCE AND BE WITHIN RIGHT-OF-WAY OF A MINIMUM EASEMENT WIDTH OF 20 FEET. PROPOSED ACCESS ROUTE MUST BE APPROVED BY CITY ENGINEER. MAINTENANCE ACCESS ROUTES THAT DO NOT FOLLOW THE STORMLINE MUST HAVE A MINIMUM 12' EASEMENT.

\Standards\2010-Standards\2-Concrete\General_Notes_stm.dwg

CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

STORMWATER SYSTEM GENERAL NOTES

APPROVED FOR PUBLICATION 12/13/10
City Engineer Date
DWG. NO. 6-1



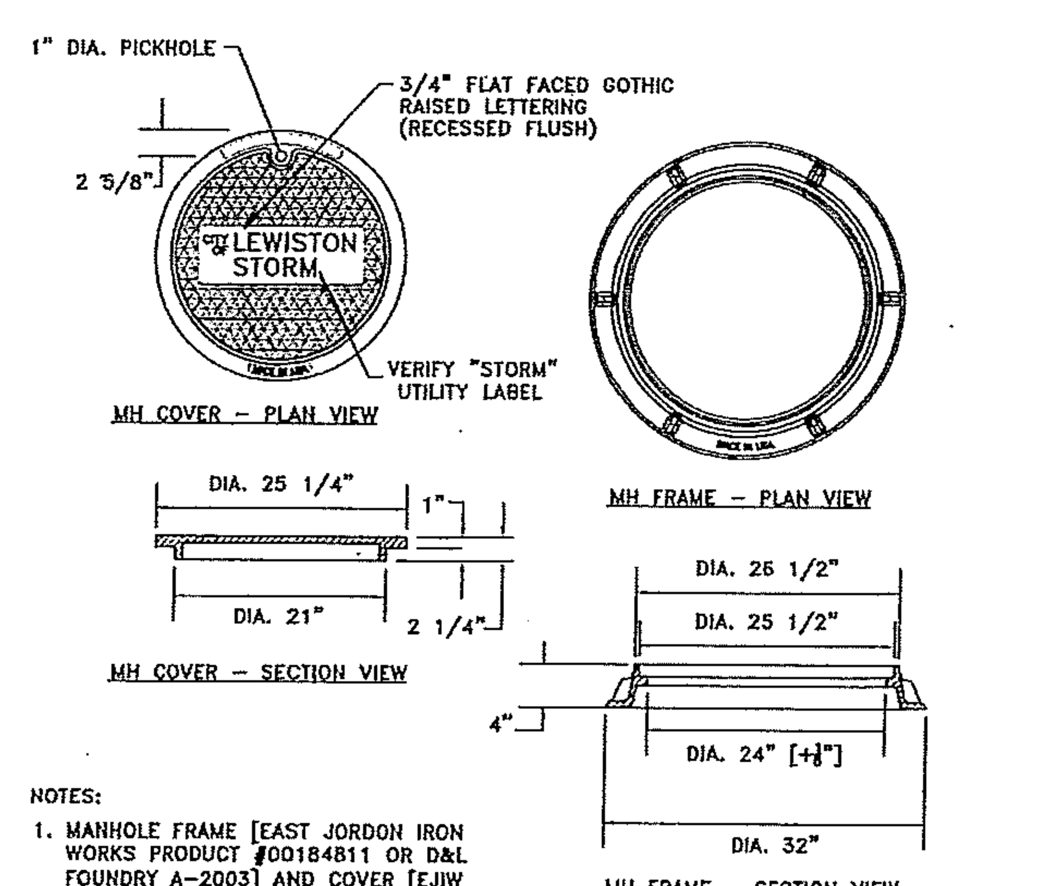
NOTES:
1. ALL UNITS TO MEET OR EXCEED THE REQUIREMENTS OF ASTM C478/AASHTO M199. JOINTS SHALL BE RUBBER GASKET CONFORMING TO ASTM C443 AND SHALL BE GROUTED FROM THE INSIDE. LIFT HOLES BE GROUTED FROM THE OUTSIDE AND INSIDE OF THE MANHOLE.
2. PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM
3. CONNECTION TO MANHOLE SHALL BE MADE USING RESILIENT CONNECTOR CONFORMING TO ASTM C-923 SUCH AS KOR-N-SEAL, A-LOK OR APPROVED EQUAL. HAVE A WALL THICKNESS OF 2" MINIMUM
4. USE A MINIMUM OF 1/2" OF NON-SHRINK GROUT BETWEEN RISERS, CONE AND FRAME.
5. RISERS, UNIT SECTIONS AND THE FRAME SHALL NOT BE MORE THAN ONE INCH OUT OF ALIGNMENT WITH THE MANHOLE BASE; PIPES SHALL BE FLUSH WITH INSIDE EDGE OF MANHOLE.
6. SEE DWG NO 6-4 FOR CONCRETE MANHOLE COLLAR.

\Standards\2010-Standards\6-StormSewer\MH Type 1.dwg

CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

STORMWATER TYPE 1 MANHOLE

APPROVED FOR PUBLICATION 12/13/10
City Engineer Date
DWG. NO. 6-2



NOTES:
1. MANHOLE FRAME [EAST JORDON IRON WORKS PRODUCT #00184811 OR D&L FOUNDRY A-2003] AND COVER [EJIW #00184849 OR D&L A-2010-01] OR OTHER MANUFACTURER WILL BE ACCEPTABLE ONLY WITH WRITTEN APPROVAL FROM PUBLIC WORKS DEPT.; VERIFY "STORM" UTILITY LABEL LETTERING ON COVER.
2. COVER MATERIAL SPECIFICATION GRAY IRON (ASTM A48 CL35B)

\Standards\2010-Standards\6-StormSewer\MH Frame_Cover.dwg

CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

STORMWATER MANHOLE FRAME AND COVER

APPROVED FOR PUBLICATION 12/13/10
City Engineer Date
DWG. NO. 6-5

GENERAL NOTES FOR CATCH BASINS

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

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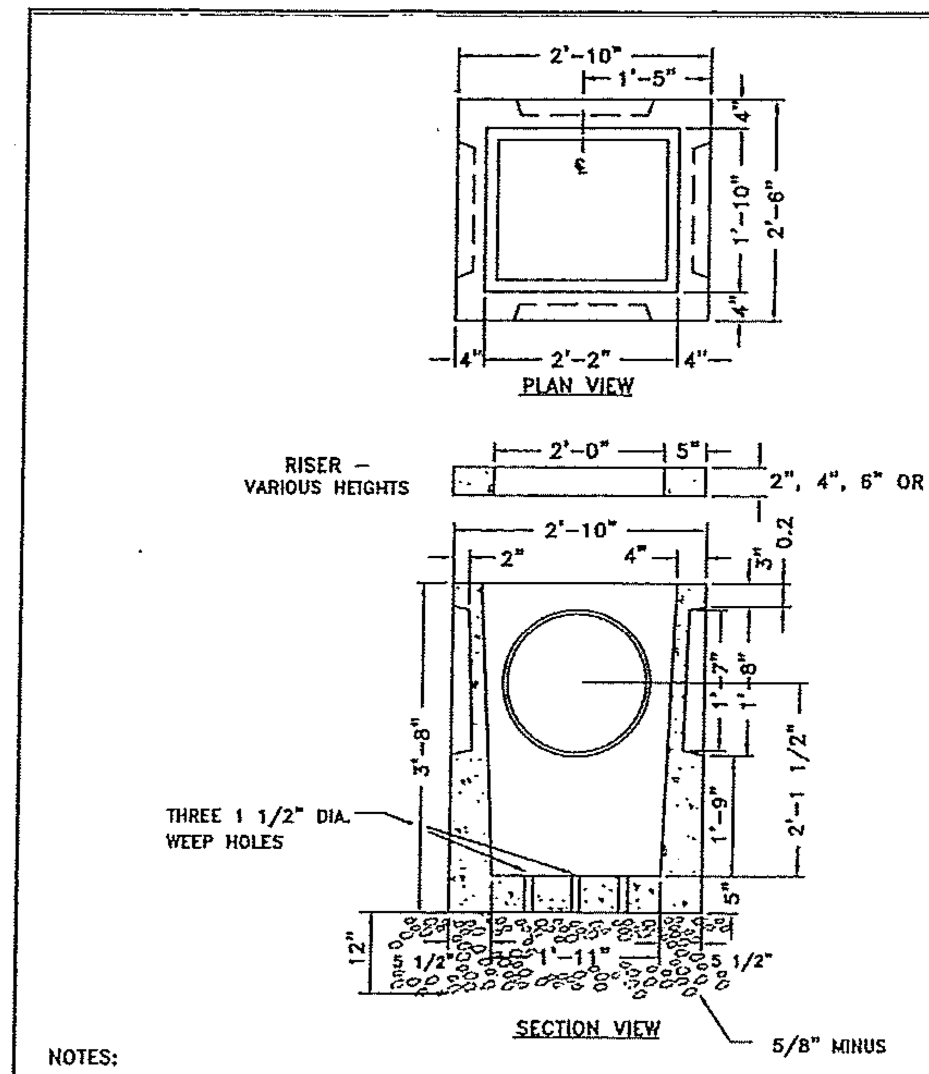
CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

STORMWATER GENERAL CATCH BASIN NOTES

APPROVED FOR PUBLICATION 12/13/10
City Engineer Date
DWG. NO. 6-6



NOTES:
1. TYPICAL CATCH BASIN [WILBERT PRECAST PRODUCT #1827] AND RISERS [WILBERT PRECAST #1830 (FOR 12") OR #1831-2,4,6 (FOR 2", 4" OR 6")] OR BY OTHER MANUFACTURER WILL BE ACCEPTABLE ONLY WITH WRITTEN APPROVAL FROM PUBLIC WORKS DEPT.
2. SEE CITY DWG 6-6 'GENERAL NOTES FOR CATCH BASINS'.

M:\Standards\2010-Standards\6-StormSewer\CB Type_1.dwg

CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

STORMWATER TYPE 1 CATCH BASIN

APPROVED FOR PUBLICATION 12/13/10
City Engineer Date
DWG. NO. 6-8

REVISION DESCRIPTION | REV. LTR. | DATE | CHECKED | APPD.

REGISTERED PROFESSIONAL ENGINEER #2102 STATE OF IDAHO 11/14/14

SCALE | DRAWN BY MEE | CHECKED BY JSH | SHEET SIZE D | DATE 10-14-14 | JOB # 1326 | SHEET C7 | DRAWING # 1326-C7

CLEARVIEW EYE CLINIC AND SURGERY CENTER
STANDARD DETAILS
2840 JUNIPER DRIVE
LEWISTON, IDAHO

HEDCO

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

SHEET C7

CLEARVIEW EYE CLINIC AND SURGERY CENTER
CONSTRUCTION EROSION & SEDIMENT CONTROL
2840 JUNIPER DRIVE
LEWISTON, IDAHO

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

SCALE	SHEET SIZE
1"=20'	D
DRAWN BY MEE	CHECKED BY JSH
DATE 11-14-14	JOB # 1326
SHEET C8	DRAWING # 1326-C8

REV LTR | DATE | REVISION DESCRIPTION | CHECKED | APPD.

SHEET C8