BLUE RIBBON - DRY CLEANING FACILITY (0.57 ac)

9/16/16
REV 12/20/16

2402 16TH AVENUE, LEWISTON ID 83501

CONTACT INFORMATION

PROJECT ADDRESS:	2232 16TH AVENUE LEWISTON IDAHO 83501
OWNER:	BLUE RIBBON CONTACT: GARY STACKOFSKY 2322 16TH AVENUE LEWISTON, ID 83501 PHONE: (208) 790-3706 WORK: (208) 743-5521
CIVIL ENGINEER: INSPECTOR:	C. RYAN FISKE, P.E. ANACLINE ENGINEERING 4045 EAGLE CT. LEWISTON, ID 83501 PHONE: (208) 791-8055 email: anacline @aol.com

UTILITY CONTACTS

UTILITY	ENTITY	CONTACT	PHONE
ROAD	CITY	KEITH BINGMAN	208.791.2623
WATER	CITY	BRYAN LACY	208.743.7461
SEWER	CITY	BRYAN LACY	208.743.1316
PHONE	CENTURY LINK	JULIO MENDEZ	208.798.8380
POWER	AVISTA	COLBY WITTERS	509.780.1475
CABLE	CABLE 1	TOM DONOHUE	208.746.3325

SHEET INDEX

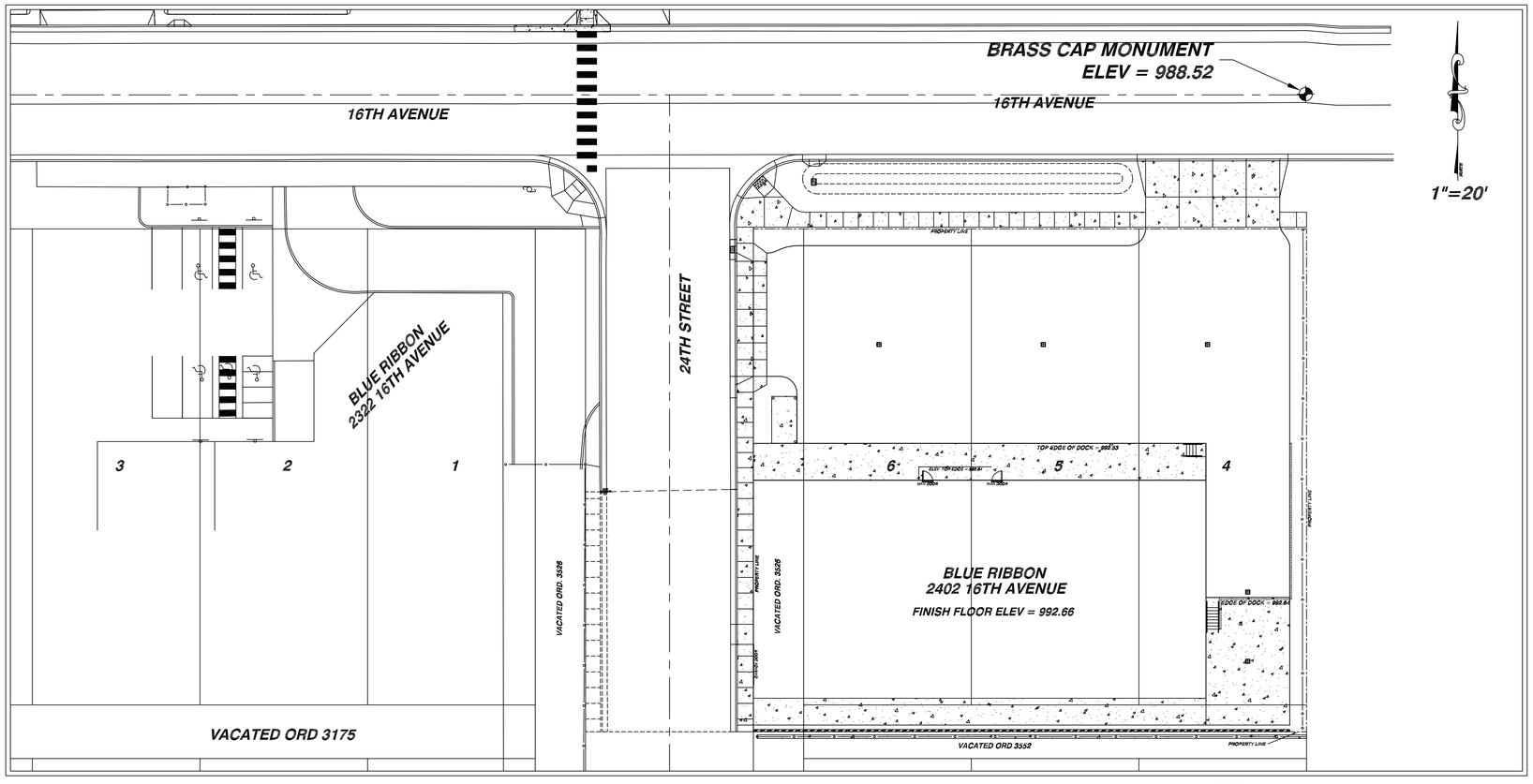
CALL BEFORE YOU DIG

CONTRACTOR SHALL CALL 1-800-342-1585 & HAVE ALL UNDERGROUND UTILITIES LOCATED AT LEAST TWO WORKING DAYS PRIOR TO THE START OF ANY CONSTRUCTION.

STANDARDS

1) IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (LATEST ED.)
2) NATIONAL ELECTRIC COUNCIL & LOCAL ELECTRIC CODES
3) AMERICAN WATER WORKS ASSOCIATION STANDARDS
4) IDAPA 58 & 10 STATE STANDARDS
5) CITY, COUNTY & STATE CODES
6) INTERNATIONAL BUILDING CODE 2003
7) INTERNATIONAL FIRE CODE 2003
8) CITY OF LEWISTON STANDARD DRAWINGS & SPECIFICATIONS
9) AMERICANS WITH DISABILITIES ACT
10) CITY INSPECTION CHECKLIST

SITE PLAN



NOTE: THE ENGINEER OF RECORD IS REQUIRED TO INSPECT THE INFRASTRUCTURE CONSTRUCTION TO INSURE CONFORMANCE TO PLAN REQUIREMENTS. THE CONTRACTOR WILL PROVIDE THE ENGINEER EVERY FRIDAY, A SCHEDULE OF THE WORK TO BE PERFORMED THE FOLLOWING WEEK. THE CONTRACTOR SHALL PROVIDE ACCURATE REDLINE DRAWINGS FOR THE ENGINEER TO PROVIDE "AS-BUILT" PLANS AFTER THE CONSTRUCTION IS COMPLETE.

NOTIFICATION SIGN: A SIGN SHALL BE ERECTED UPON APPROVAL OF THE BUILDING PERMIT FOR THE PROJECT. AT A MINIMUM THE SIGN SHALL HAVE THE FOLLOWING:
1) THE SIGN SHALL BE AT LEAST 15 FEET SQUARE IN SIZE.
2) THE SIGN SHALL HAVE A DESCRIPTION OF THE APPROVED PROJECT.
3) THE SIGN SHALL CONTAIN THE PHONE NUMBER FOR THE PUBLIC TO OBTAIN ADDITIONAL INFORMATION.

REGISTERED PROFESSIONAL ENGINEER 10962 9/16/16 STATE OF IDAHO CHARLES R. FISKE

4025 EAGLE COURT
LEWISTON, IDAHO 83501
FAX (208) 750-1082
(208) 791-8055

NACLINE
ENGINEERING & DRAFTING
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EROSION CONTROL LEGEND

CONSTRUCTION ENTRANCE (CE)
A stone pad, located at points of vehicular ingress and egress on a construction site, to reduce the soil transportation onto public roads and other paved areas. Location may vary from plan location.

DUST CONTROL (DC)
Reducing surface and air movement of dust during land disturbance, demolition or construction activities in areas subject to dust problems in order to prevent soil loss and reduce the presence of potentially harmful airborne substance.

STREET SWEEP (SS)
Where construction vehicle access routes intersect public streets, provisions shall be made to minimize the transportation of sediment by vehicular tracking onto the paved surface. Where sediment is transported onto a public street surface, the road shall be cleaned thoroughly. Periodic street sweeping may be required. Street washing shall be allowed only after sediment is first removed by sweeping.

LANDSCAPING (LS)
See Landscaping Plan

POINT LEGEND

EG = EXISTING GRADE
FG = FINISH GRADE
TBW = TOP BACK OF WALL
BFW = BOTTOM FACE OF WALL
ACP = ASPHALT CEMENT PAVEMENT
CONC = CONCRETE
EXT = EXISTING
MON = MONUMENT
INV = INVERT
TBC = TOP BACK OF CURB
LIP = LIP OF CURB
RIM = RIM OF STRUCTURE

LEGEND

PROPERTY BOUNDARY
CENTERLINE
EDGE OF PAVEMENT
FENCE
BREAK LINE
TOP OF POND STORMWATER
923 — EXISTING GRADE CONTOUR
923 — FINISH GRADE CONTOUR
PH — UNDERGROUND PHONE
APH — ABANDONED UNDERGROUND PHONE
OHP — OVERHEAD POWER
GAS — UNDERGROUND GAS
W — DOMESTIC WATER MAIN OR SERVICE
C — CONDUIT
SAN — SANITARY SEWER MAIN OR SERVICE
ST — STORM DRAIN LINE
PROPOSED PAVEMENT SECTION
PROPOSED CONCRETE FLATWORK
TREE
CONTROL POINT OR MONUMENT
SIGN
BOLLARD
BUMPER BLOCK
EXISTING CATCH BASIN
EXISTING MANHOLE
WV — GATE VALVE
WATER METER
FIRE HYDRANT
BFP IRR — BACK FLOW PREVENTOR / IRRIGATION VALVE BOX
UTILITY BOX
UTILITY POLE & ANCHOR
LIGHT POLE
CATCH BASIN WITH HOOD
AREA DRAIN
THRUST BLOCK FOR WATER MAIN JOINT
POST INDICATOR VALVE

OPINION OF QUANTITIES

DEMOLITION

NOTIFICATION SIGN = 1 LS
TRAFFIC CONTROL = 1 LS
EROSION CONTROL = 1 LS
MATERIALS TESTING = 1 LS
REMOVE PEDESTRIAN MAIL BOX = 1 EA
REMOVE LIGHT POLE & ALL SITE ELECTRICAL = 1 EA
REMOVE HIGH BACK CURB & GUTTER = 14 FT
REMOVE FENCE = 504 LF
REMOVE TREES = 5 6 EA
REMOVE HIGH BACK CURB & GUTTER = 114 LF
RELOCATE STREET / STOP SIGN = 1 EA
REMOVE MANHOLE = 1 EA
STREET CUT FOR UTILITIES = 240 LF

SITE WORK

SITE CUT (INCLUDES CLEAR & GRUBB & SWALE) = 1,863 CY
INTERIOR PAVEMENT SECTION 4" ITD CL 3 ACP = 1,156 SY
INTERIOR PAVEMENT SECTION 10" OF 3/4"– ROCK = 1,156 SY
24TH PAVEMENT SECTION 4" ITD CL 3 ACP = 148 SY
24TH PAVEMENT SECTION 10" OF 3/4"– ROCK = 148 SY
6" THICK CONCRETE FLATWORK W/#3 REBAR 12" O.C. = 205 SY
4" THICK CONCRETE FLAT WORK = 128 SY
4" THICK ¾"– AGGREGATE FOR CONCRETE SIDEWALKS = 128 SY
PEDESTRIAN RAMP WITH TACTILE WARNING STRIP = 1 EA
INLET APRON = 1 EA
HIGH BACK CURB & GUTTER = 46 FT
REINFORCED DEPRESSED CURB AND GUTTER = 111 FT
TRANSITION CURB AND GUTTER = 28 FT
TRANSFORMER PAD = 1 LS
BOLLARDS = 3 EA
SOUTH LANDSCAPE WALL = 1 LS
NORTH LOADING DOCK = 1 LS
SOUTH EAST LOADING DOCK = 1 LS
SOUTH EAST RETAINING WALL = 1 LS
LOADING DOCK STAIR WITH RAILS = 2 EA
SITE OBSCURING FENCE =85 FT
4" WIDE WHITE STALL LINES = 312 LF

UTILITIES

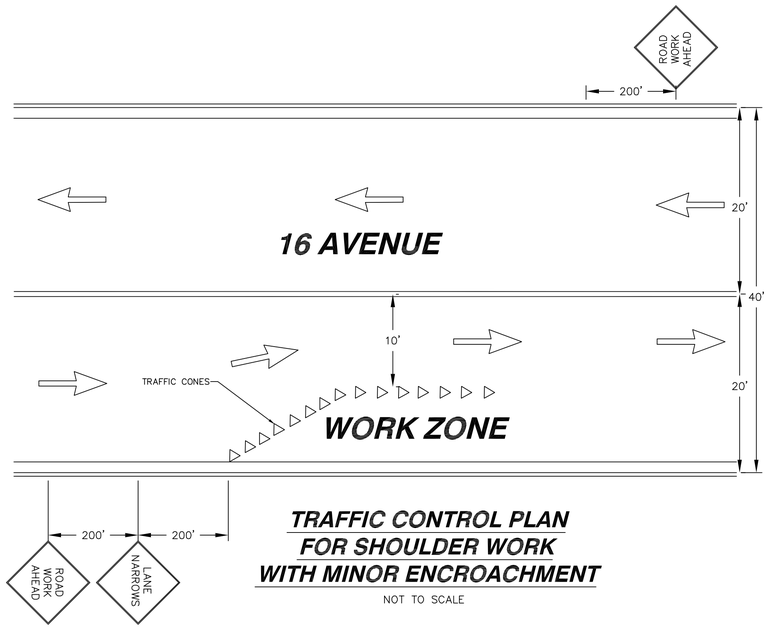
2" CONDUIT = 336 LF
¾" STANDARD WATER SERVICE CONNECTION = 1 EA
¾" WATER SERVICE PIPE = 15.5 LF
10" TEE FOR FIRE LINE = 1 EA
POST INDICATOR VALVE = 1 EA
45° ELBOW FOR FIRE LINE = 1 EA
C900 CLASS 150 FIRE LINE = 95 FT
WATER METER ASSEMBLY = 1 EA
IRRIGATION VALVE BOX & IRRIGATION VALVE MANIFOLD = 1 EA
IRRIGATION VALVE BOX & BACK FLOW PREVENTOR = 1 EA
INSTALL CATCH BASIN WITH CAST IRON FRAME & GRATE = 6 EA
INSTALL CITY CATCH BASIN WITH CAST IRON HOOD = 1 EA
12" PVC C900 CL150 STORM PIPE = 30 FT
4" FOUNDATION PERIMETER DRAIN WITH SOCK = 422 FT
4" SOUTH LANDSCAPE DRAIN WITH SOCK = 158 LF
4" PVC SDR 35 STORM PIPE = 69 FT
4" PVC SDR 35 ROOF DRAIN PIPE = 330 FT
8" PVC SDR 35 STORM PIPE = 187 FT
SECURED NEMA 4 PUMP CONTROL–ALARM PANEL= 1 EA
800 CF CONTECK STORMWATER INFILTRATION SYSTEM = 1 LS
1000 GAL SAND/OIL SEPARATOR ASSEMBLY = 1 EA
STORMWATER PUMP WITH FLOAT CONTROLS = 1 LS
2" SDR 7 PIPE = 18 FT
2"X4" INCREASOR = 1 EA
4" PVC SDR 35 PIPE W/ 1'X1' CONCRETE OUTLET PAD = 5 FT
INSTALL SEWER MANHOLE = 2 EA
8" PVC C900 CL150 FOR SEWER MAIN = 200 FT
8"X4" SANITARY SEWER WYE = 1 EA
4" PVC SRD35 SEWER PIPE = 116 LF
4" CLEANOUT WITH CAST IRON FRAME & COVER = 1 EA
TRENCH FOR GAS SERVICE LINE = 102 FT
STREET PATCH BACK = 240 FT

ADD ALTERNATE #1 WEST SIDE OF 24TH

SITE CUT = 57 CY
24TH PAVEMENT SECTION 4" ITD CL 3 ACP = 148 SY
24TH PAVEMENT SECTION 10" OF 3/4"– ROCK = 148 SY
HIGH BACK CURB & GUTTER = 71.5 FT

NOTES

1) ALL VOLUMES ARE COMPACTED VOLUMES, LENGTHS ARE PLAN VIEW UP TO THE BUILDING LINE.
2) THE CONTRACTOR SHALL SATISFY FOR THEMSELVES THE QUANTITIES REQUIRED TO COMPLETE THIS PROJECT.
3) ITEMS NOT LISTED ARE INCIDENTAL



TRAFFIC CONTROL PLAN FOR SHOULDER WORK WITH MINOR ENCROACHMENT

NOT TO SCALE

C4 GRADING NOTES

1) PREPARATION OF GROUND: THE GROUND SURFACE SHALL BE PREPARED TO RECEIVE FILL BY REMOVING VEGETATION, NON–COMPLYING FILL, TOPSOIL AND OTHER UNSUITABLE MATERIALS, SCARIFYING TO PROVIDE A BOND WITH THE NEW FILL AND, WHERE SLOPES ARE STEEPER THAN FIVE TO ONE AND THE FILL HEIGHT IS GREATER THAN 5 FEET, BY BENCHING INTO COMPETENT MATERIAL. THE BENCH UNDER THE TOE OF A FILL ON A SLOPE STEEPER THAN A FIVE TO ONE SHALL BE AT LEAST 10 FEET WIDE. WHEN FILL IS TO BE PLACED OVER CUT, THE BENCH OVER THE TOE OF FILL SHALL BE AT LEAST 10 FEET WIDE BUT THE CUT SHALL BE MADE BEFORE THE FILL AND SHALL BE SUITABLE FOUNDATION FOR FILL.

2) FILL MATERIAL: DETRIMENTAL AMOUNTS OF ORGANIC MATERIAL SHALL NOT BE PERMITTED IN FILL.

3) COMPACTION: ALL STRUCTURAL FILLS (UNDER RESIDENTIAL LOTS, BUILDINGS, AND PAVEMENT OR CONCRETE) SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY ACCORDING TO ASTM D1557 (MODIFIED PROCTOR). THE TOP 6 INCHES OF ALL ROAD SUBGRADES SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY. NON STRUCTURAL FILL SHALL BE COMPACTED TO A MINIMUM OF 85% OF MAXIMUM DENSITY ACCORDING TO ASTM D1557 (MODIFIED PROCTOR). ALL FILLS MUST BE CERTIFIED AS MEETING THESE SPECIFICATIONS BY A PROFESSIONAL ENGINEER. COMPACTION TESTS SHALL BE TAKEN ON EACH LIFT (MAXIMUM 8" LOOSE DEPTH IN STRUCTURAL FILLS AND 12" MAXIMUM LOOSE DEPTH IN NON STRUCTURAL FILLS) OF FILL PLACED.

4) TESTING: THE CONTRACTOR SHALL HIRE A MATERIAL TESTING LAB TO PERFORM MATERIALS TESTING OR OBSERVED TESTING (FOR ROCK FILL) AND PROVIDE THE TESTING RESULTS TO THE ENGINEER FOR REVIEW.

C5 UTILITY NOTES

1) SPRINKLER SYSTEM BY CONTRACTOR.

2) THE EXISTING UTILITY LOCATIONS SHOW WHERE DETERMINED BY COLLECTING EXISTING UTILITY DRAWINGS FROM VARIOUS UTILITY ENTITIES, CALLING IN A UTILITY LOCATE AND THEN MAPPING THE UTILITY LOCATES. THEREFOR, ANACLINE ENGINEERING PLLC DOES NOT WARRANTY THE ACCURACY OF THE INFORMATION PROVIDED AND PERFORMED BY OTHERS.

C5 CONDUIT SPECIFICATIONS

1) ALL CONDUIT IS 2" SCHEDULE 40 GRAY PVC

2) CONDUIT BENDS AND SWEEPS ARE 24"

3) MINIMUM SEPARATION DISTANCE TO WATER, STORM, SANITARY UTILITIES IS 2' FROM EDGE OF PIPE.

4) CONDUITS MAY BE PUT IN A COMMON TRENCH. CONDUIT ROUTES ARE DRAWN FOR CLARITY. CONTRACTOR SHALL ADJUST COMMON TRENCH LOCATION TO AVOID CONFLICTS WITH OTHER UTILITIES AND TO MAINTAIN MINIMUM SEPARATION REQUIREMENTS.

NO.	DATE	BY	FILENAME	REVISIONS
0			00486	ORIGINAL DRAWING

REGISTERED PROFESSIONAL ENGINEER — CHARLES R. FISKE — 10962 — STATE OF IDAHO — 12/20/16

4025 EAGLE COURT
LEWISTON, IDAHO 83501
FAX (208) 750–1082
(208) 791–8055

NACLINE ENGINEERING & DRAFTING
"an affordable alternative"

BLUE RIBBON LINEN
DRY CLEANING BUILDING

TRAFFIC CONTROL PLAN
EROSION CONTROL PLAN

DRAWN BY: CRF	CHECKED BY: CRF
DESIGNED BY: CRF	
SCALE: N.A.	
DATE: 12/20/16	
PROJECT NO.: 00486	

SHEET 2 OF 14

16TH AVENUE

TREE REMOVAL WITHIN THE RIGHT OF WAY
REQUIRES A PERMIT FROM PARKS AND RECREATION

REMOVE 7' OF CURB & GUTTER

REMOVE 15' OF CURB & GUTTER

REMOVE 45' OF CURB & GUTTER

REMOVE MAILBOX

REMOVE TREE

REMOVE TREE

REMOVE TREE

REMOVE TREE

REMOVE TREE

RELOCATE STREET & STOP SIGN TO STA 0+37.5, 26.75' LT

RELOCATED

REMOVE NORTH FENCE, 164 FEET

REMOVE WEST FENCE, 15 FEET

24TH STREET

REMOVE 47' OF CURB & GUTTER

REMOVE EXISTING POLE, LIGHT & ALL SITE ELECTRICAL

RETAIN AND PROTECT NORTH HALF OF EAST FENCE

REMOVE WEST FENCE, 37 FEET

MAN DOOR

MAN DOOR

BLUE RIBBON
2402 16TH AVENUE

REMOVE & REPLACE SOUTH 85 FEET OF EAST FENCE
SITE OBSCURING FENCE AS NEEDED

BREAKLINE

REMOVE WEST FENCE, 40 FEET

REMOVE SOUTH FENCE, 163 FEET

REMOVE SITE ELECTRICAL

GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)
1 inch = 10 ft.

NO.	DATE	BY	FILENAME	REVISIONS
1	10/20/16	CRF		TREE REMOVAL WITHIN THE RIGHT OF WAY REQUIRES A PERMIT FROM PARKS AND RECREATION
0			00486	ORIGINAL DRAWING

REGISTERED PROFESSIONAL ENGINEER
CHARLES R. FISKE
10962
STATE OF IDAHO
12/20/16

4025 EAGLE COURT
LEWISTON, IDAHO 83501
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BLUE RIBBON
DRY CLEANING BUILDING
DEMOLITION PLAN

DRAWN BY: CRF	CHECKED BY: CRF
DESIGNED BY: CRF	
SCALE: 1" = 10'	
DATE: 12/20/16	
PROJECT NO.: 00486	
SHEET 3 OF 14	

16TH AVENUE

24TH STREET

PROPERTY LINE

BLUE RIBBON
2402 16TH AVENUE

FINISH FLOOR ELEV = 992.66

TOP EDGE OF DOCK = 992.53

ELEV TOP EDGE = 992.64

EDGE OF DOCK = 992.64

MAN DOOR

MAN DOOR

GARAGE DOOR

EXISTING GRADE CONTOUR LINE

FINISH GRADE CONTOUR LINE

EXISTING GRADE CONTOUR LINE

FINISH GRADE CONTOUR LINE

PROPERTY LINE

PROPERTY LINE

PROPERTY LINE

GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)
1 inch = 10 ft.

ORIGINAL DRAWING

NO.	DATE	BY	FILENAME
			00486
			REVISIONS
0			

REGISTERED PROFESSIONAL ENGINEER
CHARLES R. FISKE
10962
12/20/16
STATE OF IDAHO

4025 EAGLE COURT
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BLUE RIBBON
DRY CLEANING BUILDING
EROSION CONTROL PLAN

DRAWN BY: CRF	CHECKED BY: CRF
DESIGNED BY: CRF	
SCALE: 1" = 10'	
DATE: 12/20/16	
PROJECT NO.: 00486	

SHEET 4 OF 14

16TH AVENUE

24TH STREET

SWALE BOTTOM = 987.68

PROPERTY LINE

BLUE RIBBON
2402 16TH AVENUE

FINISH FLOOR ELEV = 992.66

TOP EDGE OF DOCK = 992.53

ELEV TOP EDGE = 992.64

EDGE OF DOCK = 992.64

PAD = 990.61

MAN DOOR

GARAGE DOOR

TOP OF SLOPE

EXISTING GRADE CONTOUR LINE

FINISH GRADE CONTOUR LINE

GRAPHIC SCALE

(IN FEET)
1 inch = 10 ft.

NO.	DATE	BY	FILENAME	REVISIONS
0			00486	ORIGINAL DRAWING

REGISTERED PROFESSIONAL ENGINEER
10962
12/20/16
STATE OF IDAHO
CHARLES R. FISKE

4025 EAGLE COURT
LEWISTON, IDAHO 83501
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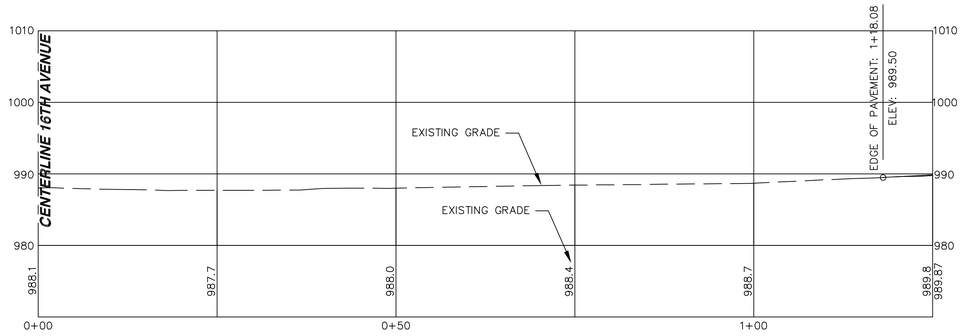
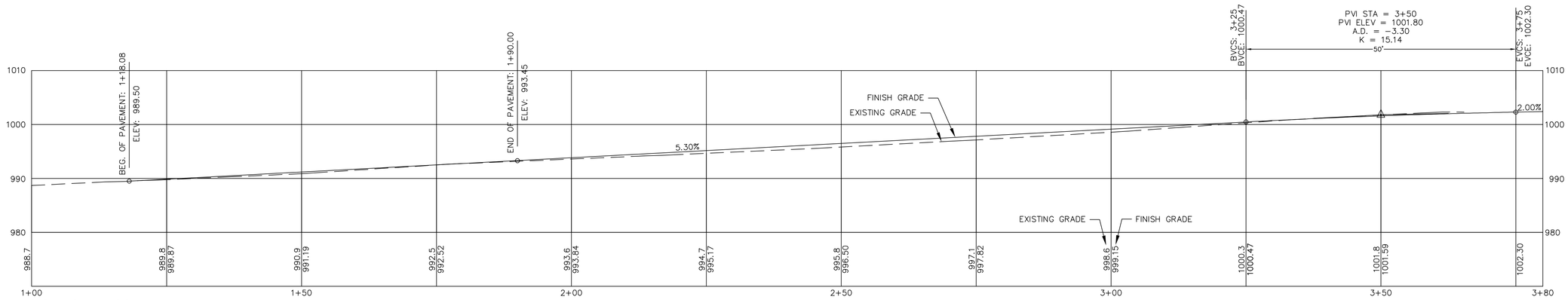
BLUE RIBBON LINEN
DRY CLEANING BUILDING
GRADING PLAN

DRAWN BY:	CHECKED BY:
CRF	CRF
DESIGNED BY:	CRF
SCALE:	1" = 10'
DATE:	12/20/16
PROJECT NO.:	00486
SHEET 5	OF 14



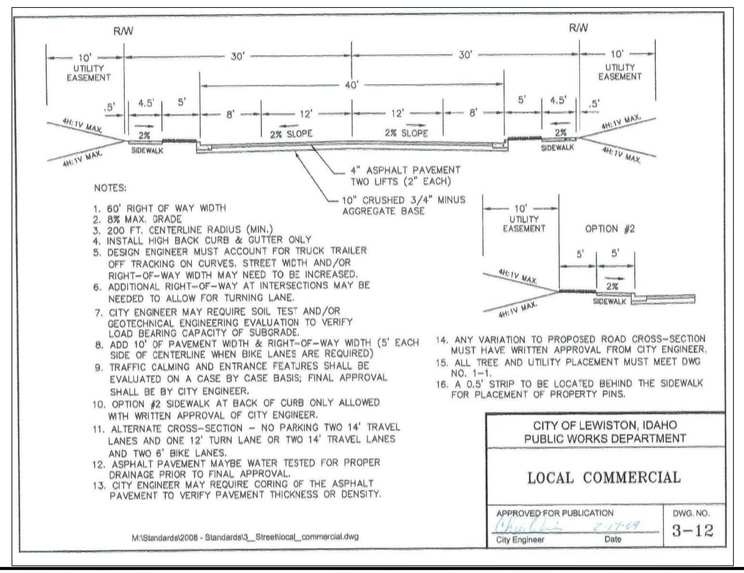
HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE: 1"=10'

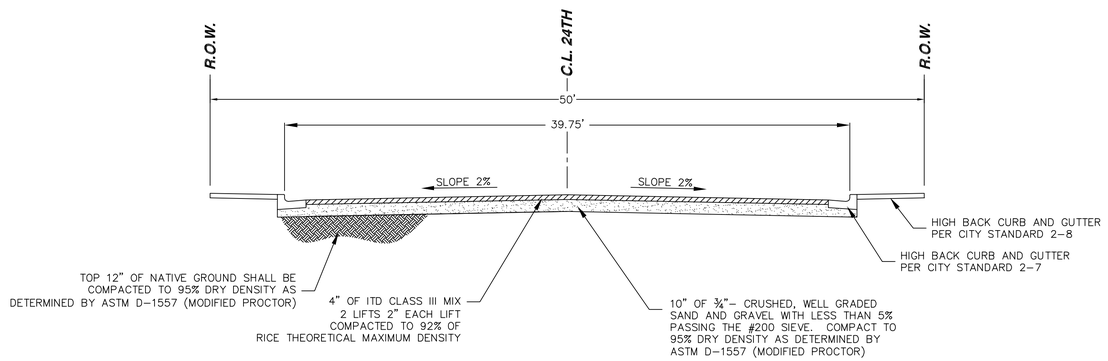
24TH STREET



HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE: 1"=10'

24TH STREET





24TH STREET SECTION VIEW

MODIFIED LOCAL COMMERCIAL DWG NO. 3-12

NOT TO SCALE

NO.	DATE	BY	FILENAME	REVISIONS
0			00486	ORIGINAL DRAWING

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12/20/16

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BLUE RIBBON LINEN
DRY CLEANING BUILDING

24TH STREET PROFILE
MODIFIED SECTION 3-12

DRAWN BY: CRF	CHECKED BY: CRF
DESIGNED BY: CRF	
SCALE: 1" = 10'	
DATE: 12/20/16	
PROJECT NO.: 00486	
SHEET 6 OF 14	

16TH AVENUE

POTHOLE WATER MAIN TO VERIFY LOCATION PRIOR TO SEWER MAIN INSTALLATION

8"X4" WYE FOR SEWER SERVICE
MINIMUM DISTANCE FROM MANHOLE 5'
TOP OF 8" PIPE = 981.04

STA 2+14.66, 0.71 LT
INSTALL MANHOLE
RIM = 989.08
8" INV OUT W. = 980.43

INSTALL CATCH BASIN WITH FRAME AND GRATE
GRATE = 988.00
12" INV IN = 986.24

GAS CONNECTION AND FINAL ROUTE BY AVISTA

REROUTE PHONE AS NEEDED SO AS TO NOT CONFLICT WITH CITY STORMWATER SWALE

CAST 1'X1' CONCRETE PAD FLUSH WITH FINISH GRADE & AROUND 4" DISCHARGE PIPE. PIPE IS ALSO FLUSH WITH FINISH GRADE.
4" INVERS = 989.00

10" TEE THRUST BLOCK PER CITY STANDARD 4-4

30 L.F. OF 12" PVC C-900 CLASS 150 PIPE (BUBBLER) PIPE SLOPE 2.23%

INSTALL CATCH BASIN PER CITY STANDARDS 6-7 & 6-8
RIM @ LIP = 988.43
8" INV OUT N.E. = 986.67

RETAIN & PROTECT AVISTA MARKER

PROPERTY LINE

18 LF OF 2" HDPE SDR 7 PIPE
2' BURY UNTIL INCREASOR
2" TO 4" INCREASOR
5 L.F. OF 4" PIPE SLOPED AT 2% TOWARDS SWALE

18 LF OF 8" PVC SDR PIPE
PIPE SLOPE = 0.4%
8" SIDE INLET INV
SIDE INV IN N. = 985.79

CONTECK INFILTRATIVE STORM WATER SYSTEM OR APPROVED EQUAL. STORMWATER VOLUME REQUIRED = 800 C.F

63 LF OF 4' DIAMETER INFILITRATIVE PIPE WITH H20 LOADING. SUBMIT TO ENGINEER FOR APPROVAL. SEE CIVIL DETAIL

INSTALL WILBERT PRECAST 1000 GALLON MONOLITHIC, DOUBLE COMPARTMENT SAND OIL/WATER SEPARATOR
PRODUCT NUMBER 1627 S/OW
SEE CIVIL DETAIL

95 FT OF C900 CL150 FIRE LINE PIPING

INSTALL CATCH BASIN
RIM = 989.36
8" INV. IN E. = 986.14
4" INV. IN S. = 986.14
8" INV. OUT W. = 986.04
1 FOOT SUMP

INSTALL CATCH BASIN
RIM = 989.36
8" INV. IN S. = 986.44
8" INV. OUT W. = 986.34
1 FOOT SUMP

47.7 LF OF 8" PVC SDR 35 PIPE
PIPE SLOPE = 0.4

47.7 LF OF 8" PVC SDR 35 PIPE
PIPE SLOPE = 0.4

45° ELBOW WITH THRUST BLOCK PER CITY STANDARD 4-4

INSTALL CATCH BASIN
RIM = 988.86
8" INV. IN E. = 985.96
4" INV IN S. = 987.82
8" INV. OUT W. = 985.86
1 FOOT SUMP

28.8 LF OF 4" PVC SDR 35 PIPE
PIPE SLOPE = 1.0
FROM PERIMETER FOUNDATION DRAIN

4" PVC SDR 35 PIPE

4" PVC SDR 35 PIPE

ROOF DOWN SPOUT

BACK FLOW PREVENTOR PER CITY STANDARD 4-10
IRRIGATION VALVE BOX & VALVE MANIFOLD.
IRRIGATION SYSTEM BY CONTRACTOR

ROOF DOWN SPOUT

INSTALL 4" CLEANOUT WITH CAST IRON FRAME AND COVER CAST INTEGRAL WITH CONCRETE
4" INV = 987.11

WATER METER BY CITY

HOT TAP WITH SADDLE
¾" STANDARD WATER SERVICE CONNECTION PER CITY STANDARD DRAWING 4-6
16 L.F. OF PIPE

TOP EDGE OF DOCK = 992.53

ELEV TOP EDGE = 992.64

MAN DOOR

MAN DOOR

SECURED NEMA 4 PUMP CONTROL-ALARM PANEL
SJE RHOMBUS TANK ALERT 1 ALARM SYSTEM
FOR STORMWATER WATER SYSTEM

73.5 LF OF 8" PVC SDR 35 PIPE
PIPE SLOPE = 0.4

PROPERTY LINE

BLUE RIBBON
2402 16TH AVENUE

FINISH FLOOR ELEV = 992.66

INSTALL CATCH BASIN
RIM = 988.39
6" INV. IN S. = 986.83
ROOF DRAIN 4" INV IN E. = 986.83
8" INV. OUT N. = 986.73
1 FOOT SUMP

20 L.F. OF 4" PVC SDR 35 PIPE
PIPE SLOPE AS NEEDED

EDGE OF DOCK = 992.64

INSTALL CATCH BASIN
RIM = 992.41
8" INV. IN S. = 991.00
4" INV IN E. = 991.00
4" INV IN W. = 991.00
8" INV. OUT N. = 990.90
1 FOOT SUMP

20 L.F. OF 4" PVC SDR 35 PIPE
PIPE SLOPE AS NEEDED

4" PVC SDR 35 PIPE

ROOF DOWN SPOUT

158 FEET OF 4" PIPE WITH DRAIN SOCK
SEE DETAIL SHEET 10

ROOF DOWN SPOUT

ROOF DOWN SPOUT

ROOF DOWN SPOUT

24TH STREET

GARAGE DOOR

PROPERTY LINE

PROPERTY LINE

GRAPHIC SCALE
10 0 5 10 20 40
(IN FEET)
1 inch = 10 ft.

NO.	DATE	BY	FILENAME	REVISIONS
1	10/20/16	CRF		WATER MAIN TO BE POTHOLED TO VERIFY LOCATION PRIOR TO SEWER MAIN CONSTRUCTION
2	10/20/16	CRF		WATER SERVICE TO BE HOT TAPPED WITH SADDLE
3	10/20/16	CRF		30FT SECTION OF STORM PIPE AND GRATE UPSIZED FROM 8" TO 12"
4	10/20/16	CRF		90° ELBOW FOR BUBBLER NOW A CATCH BASIN
				ORIGINAL DRAWING
0			00486	

REGISTERED PROFESSIONAL ENGINEER
CHARLES R. FOWLER
STATE OF IDAHO
10962
12/20/16

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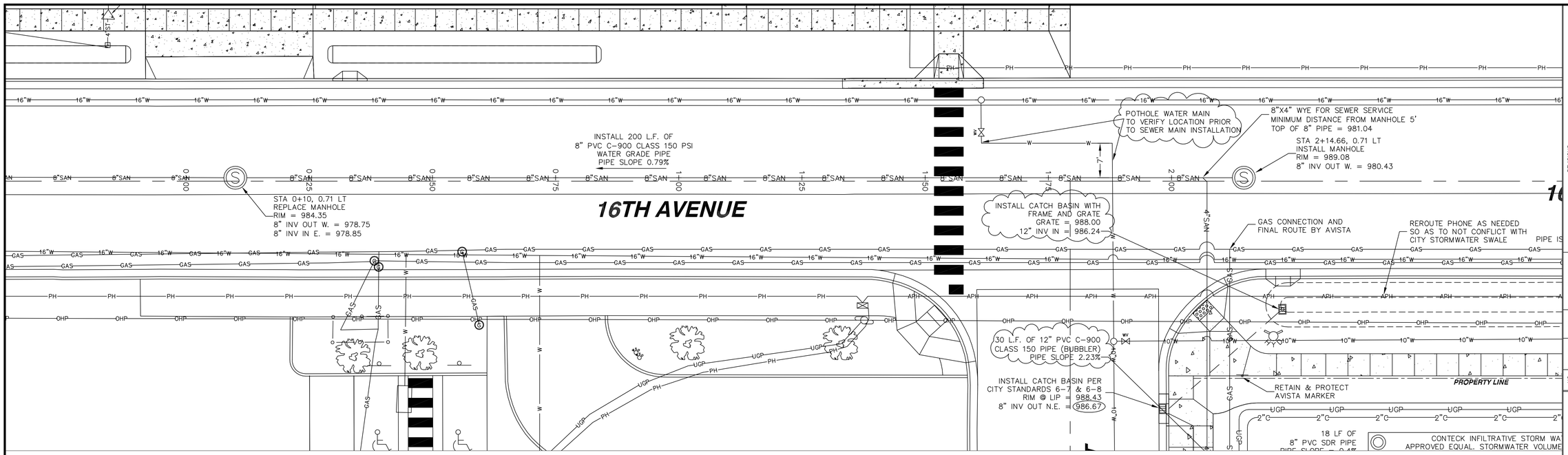
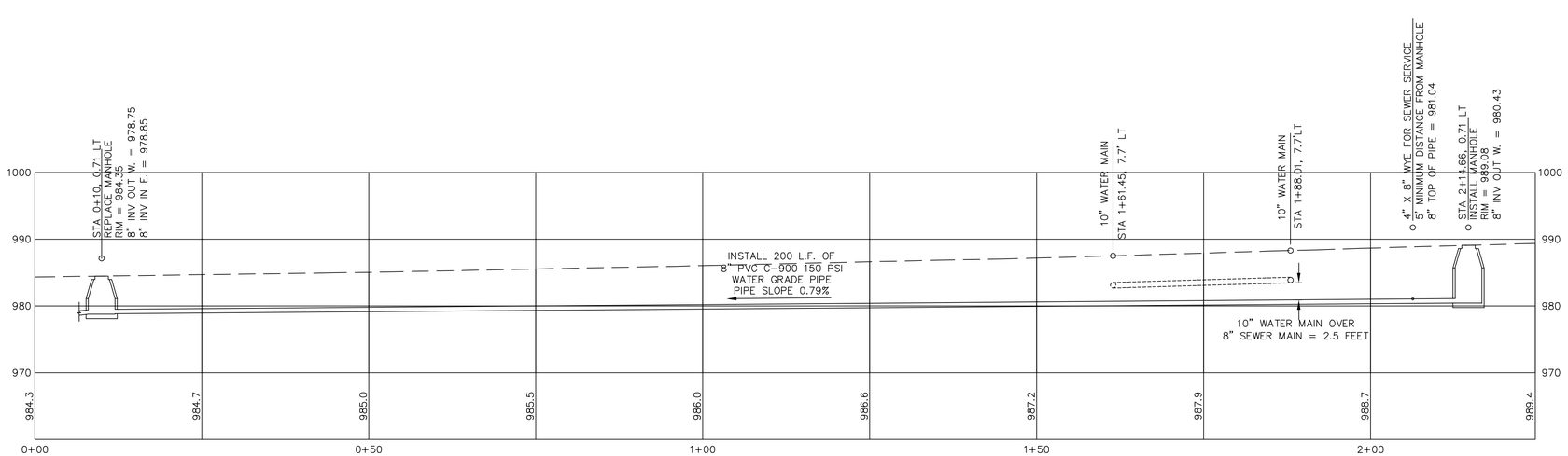
NACLINE
ENGINEERING & DRAFTING
"an affordable alternative"

BLUE RIBBON LINEN
DRY CLEANING BUILDING
UTILITY PLAN

DRAWN BY: CRF	CHECKED BY: CRF
DESIGNED BY: CRF	
SCALE: 1" = 10'	
DATE: 12/20/16	
PROJECT NO.: 00486	
SHEET 7 OF 14	



16TH AVENUE SEWER PLAN VIEW



HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE: 1"=10'

16TH AVENUE SEWER PROFILE

NO.	DATE	BY	FILENAME	REVISIONS
1	10/20/16	CRF	00486	WATER MAIN TO BE POTHOLED TO VERIFY LOCATION PRIOR TO SEWER MAIN CONSTRUCTION

ORIGINAL DRAWING

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NACLINE ENGINEERING & DRAFTING
"an affordable alternative"

BLUE RIBBON LINEN
DRY CLEANING BUILDING
16TH AVE SEWER

DRAWN BY: CRF	CHECKED BY: CRF
DESIGNED BY: CRF	
SCALE: 1" = 10'	
DATE: 12/20/16	
PROJECT NO.: 00486	
SHEET 8 OF 14	

16TH AVENUE

24TH STREET

INSTALL PEDESTRIAN RAMP PRIOR TO SIDEWALK INSTALLATION TO ASSURE COMPLIANCE WITH ADA PER CITY DETAILS 2-5 & 2-11

INSTALL INLET APRON PER CITY STANDARD 2-3

INSTALL 97 S.Y. RETENTION SWALE PER CITY STANDARD DRAWING 2-2 (EXCEPTION W/RIVER ROCK)

45'
INSTALL VEHICLE APPROACH PER CITY STANTARDS 2-10 & 2-16

EXISTING CURB & GUTTER

15.3'

92.5'

98.5'

3'

10.77'

4.5'

68 S.Y. OF RAMP & SIDEWALK SHALL BE 4,000 PSI 6" THICK & REINFORCED WITH #4 REBAR MAT 12" O.C.

40'

PROPERTY LINE

CONCRETE SIDEWALK PER CITY STANDARD DRAWINGS 2-6 & 2-8

0.5'

5'

39'-4"
INSTALL VEHICLE APPROACH PER CITY STANTARDS 2-10 & 2-16

35 S.Y. OF RAMP & SIDEWALK SHALL BE 4,000 PSI 6" THICK & REINFORCED WITH #4 REBAR MAT 12" O.C.

4" OF I.T.D. CLASS 3 A.C.P.
10" OF 3/4"-AGGREGATE

INSTALL (3) BOLLARDS PER CIVIL DETAIL PAINTED YELLOW FOR UTILITY PROTECTION

122'
(12) 10' X 24' STALLS FOR COMMERCIAL VEHICLES

13'

10'

24'

45'

EXISTING CURB & GUTTER

SAWCUT ACP NEAT LINE

ADD ALTERNATE #1
148 S.Y. OF PAVEMENT SECTION

4" OF I.T.D.s 405 SUPERPAVE HOT MIX A.C.P.
10" OF 3/4"-AGGREGATE
148 S.Y.

REINFORCE GUTTER WITH (3) #5 REBAR MAT AND SIDEWALK SHALL BE CONSTRUCTED PER THE SOUTH SIDEWALK AND DRAINAGE DETAIL

6" CURB & GUTTER PER CITY STANDARDS 2-7

ADD ALTERNATE #1
148 S.Y. OF PAVEMENT SECTION

40.28' OF HIGH BACK CURB AND GUTTER PER CITY STANDARD 2-7

RAMP

GARAGE DOOR

PROPERTY LINE

CONCRETE SIDEWALK PER CITY STANDARD DRAWINGS 2-6 & 2-8

TOP EDGE OF DOCK = 992.53
SEE CIVIL DETAIL

ELEV TOP EDGE = 992.64

MAN DOOR

MAN DOOR

DOCK RETAINING WALL
SEE CIVIL DETAIL

PROPERTY LINE

BLUE RIBBON
2402 16TH AVENUE

FINISH FLOOR ELEV = 992.66

EDGE OF DOCK = 992.64
SEE CIVIL DETAIL

LANDSCAPE WALL AS NEEDED SEE CIVIL DETAIL

135'

SEE SOUTH SIDEWALK & DRAINAGE DETAIL

4.75'

25'

5'

65'

35'

24'

GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)
1 inch = 10 ft.

NO.	DATE	BY	FILENAME	REVISIONS
1	10/20/16	CRF		WATER MAIN TO BE POTHOLED TO VERIFY LOCATION PRIOR TO SEWER MAIN CONSTRUCTION
2	10/22/16	CRF		ADA RAMP TO BE INSTALLED PRIOR TO SIDEWALK INSTALLATION TO ASSURE COMPLIANCE WITH ADA STANDARDS
0			00486	ORIGINAL DRAWING

REGISTERED PROFESSIONAL ENGINEER
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12/20/16
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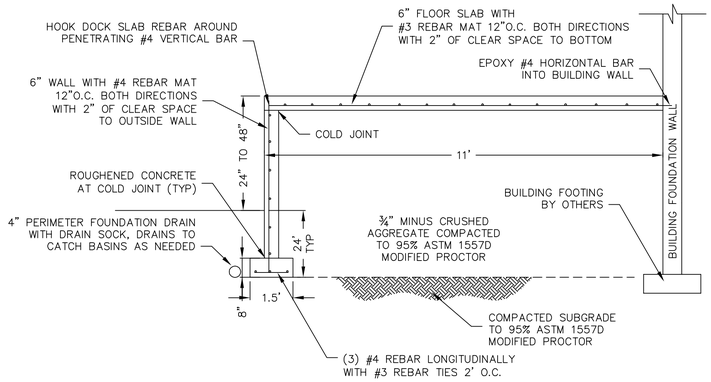
NACLINE ENGINEERING & DRAFTING
"an affordable alternative"

BLUE RIBBON LINEN
DRY CLEANING BUILDING
CIVIL PLAN

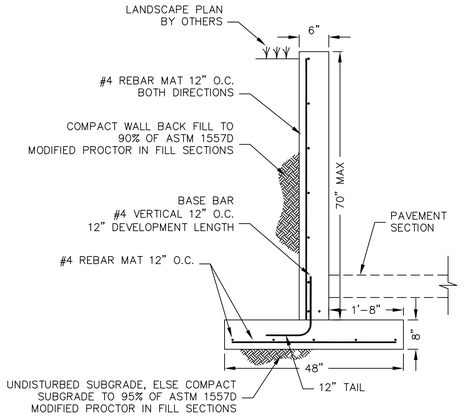
DRAWN BY: CRF	CHECKED BY: CRF
DESIGNED BY:	CRF
SCALE:	1" = 10'
DATE:	12/20/16
PROJECT NO.:	00486
SHEET 9	OF 14



DOCK SECTION VIEW

NO SCALE

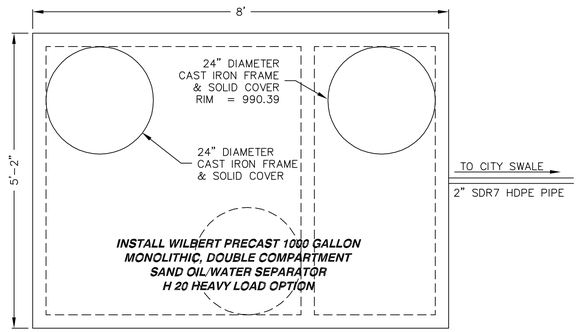
1) CONCRETE 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI
2) REBAR MINIMUM CLEAR COVER IS 2"
3) REBAR GRADE 60



4'-6' DOCK RETAINING WALL

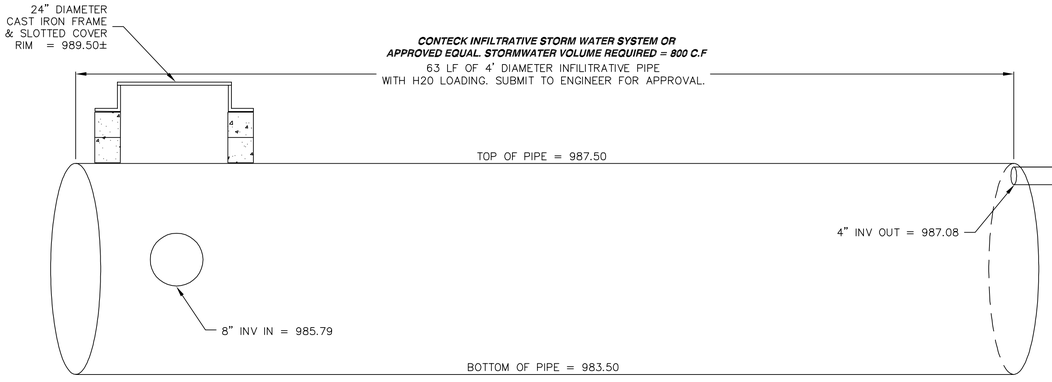
NO SCALE

1) CONCRETE 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI
2) REBAR MINIMUM CLEAR COVER IS 2"
3) REBAR GRADE 60



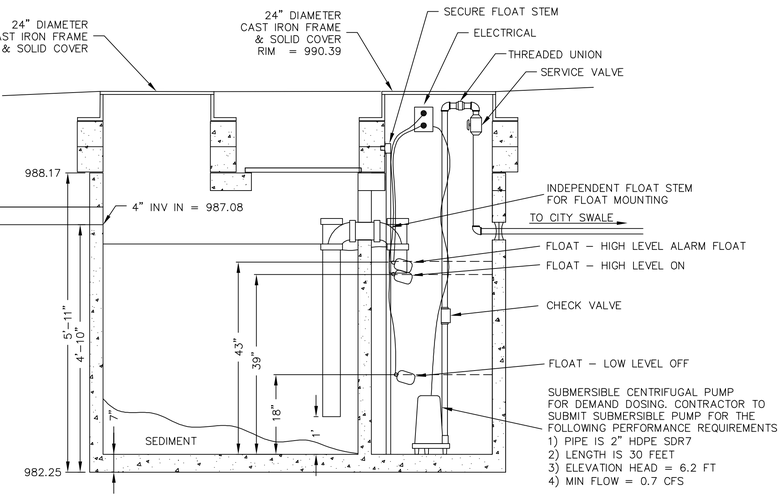
1000 GAL SAND/OIL SEPARATOR PUMP CHAMBER PLAN

NOT TO SCALE



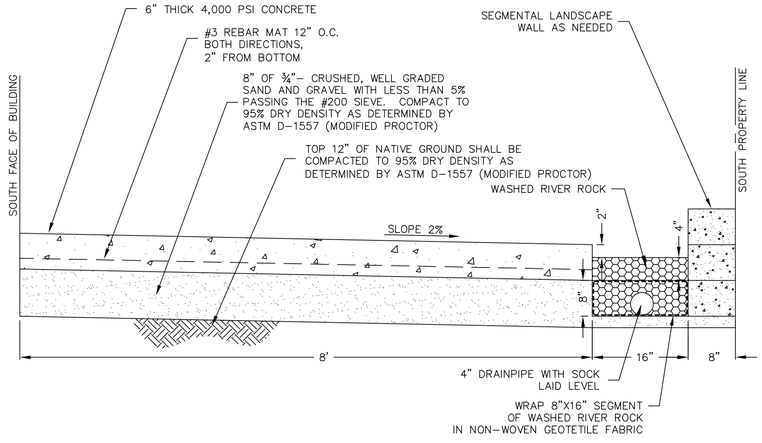
700 C.F. STORMWATER INFILTRATION SYSTEM

NOT TO SCALE



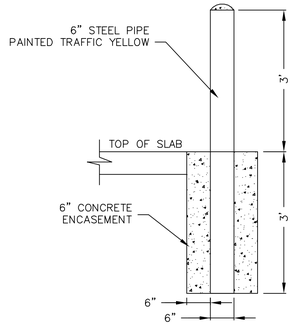
1000 GAL SAND/OIL SEPARATOR - PUMP CHAMBER PROFILE

NOT TO SCALE



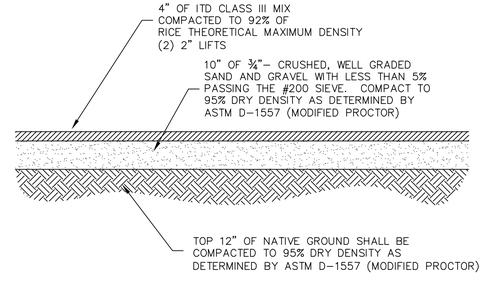
SOUTH SIDEWALK AND DRAINAGE DETAIL

NO SCALE



BOLLARD DETAIL

NO SCALE



PAVEMENT SECTION DETAIL

NO SCALE

NO.	DATE	BY	FILENAME	REVISIONS
0			00486	ORIGINAL DRAWING

REGISTERED PROFESSIONAL ENGINEER — CHARLES R. FISKE — 10962 — STATE OF IDAHO — 12/20/16

4025 EAGLE COURT
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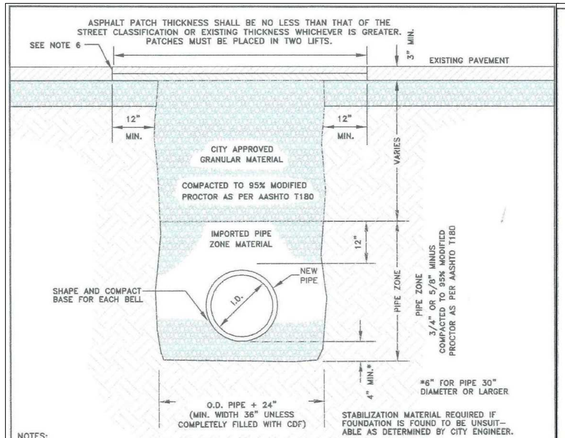
(208) 791–8655

NACLINE ENGINEERING & DRAFTING
"an affordable alternative"

BLUE RIBBON DRY CLEANING BUILDING
CIVIL DETAILS

DRAWN BY: CRF	CHECKED BY: CRF
DESIGNED BY: CRF	
SCALE: NO SCALE	
DATE: 12/20/16	
PROJECT NO.: 00486	

SHEET 10 OF 14



NOTES:

1. CONTRACTOR SHALL COMPLY WITH THE MOST CURRENT OSHA REQUIREMENTS FOR EXCAVATIONS.
2. ALL TRENCHES EXCAVATED WITHIN EXISTING PAVED STREETS SHALL BE BACKFILLED AND SURFACED THE SAME DAY WITH A 2" THICK COMPACTED COLD MIX ASPHALT PATCH (SMOOTH) – TO BE REPLACED WITH THE CITY'S STANDARD 4" HOT MIX ASPHALT SURFACING AS SOON AS SCHEDULING ALLOWS; UNLESS SPECIFICALLY APPROVED OTHERWISE BY THE CITY ENGINEER.
3. THE NEW ASPHALT PATCH SHALL MATCH THE EXISTING PAVEMENT GRADE. ACROSS THE WIDTH OF THE TRENCH THE NEW SURFACE SHALL BE FLUSH OR UP TO 1/4" ABOVE THE EXISTING PAVEMENT GRADE.
4. EXISTING PAVEMENT SHALL BE SAWCUT FULL DEPTH AND IN CONTINUOUS, STRAIGHT LINES. BROKEN EDGES WILL NOT BE ALLOWED. PAVEMENT CUTS SHALL BE 'TACKED' IMMEDIATELY PRIOR TO INSTALLATION OF THE HOT MIX PATCH.
5. AFTER BACKFILLING TRENCH REMOVE ALL BROKEN OR LOOSE ASPHALT OR CONCRETE BEYOND IN THE INITIAL TRENCH.
6. PATCH CANNOT OVERLAP ANOTHER PARALLEL PATCH AND CANNOT LEAVE EXISTING ASPHALT LESS THAN 36" WIDE.
7. JOINTS TO BE TACKED AND SANDED WITH EMULSIFIED TACK.
8. SPECIFICATIONS REGARDING PIPE BEDDING AND TRENCH BACKFILL WILL FOLLOW ISPWC SECTION 305 AND 306, UNLESS ABOVE STANDARDS ARE MORE RESTRICTIVE.

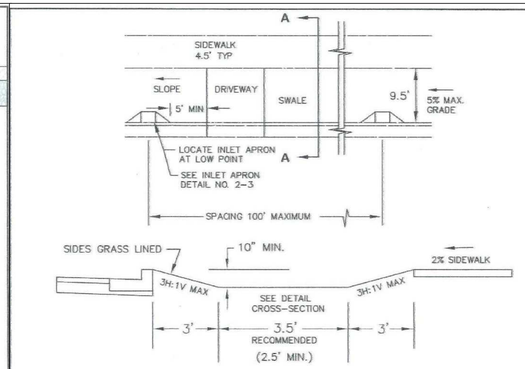
CLASS 'F' BACKFILL SHALL BE USED IN AREAS WHERE ASPHALT PAVEMENT CONCRETE CURB, SIDEWALK, DRIVEWAY, GRAVEL SURFACING WILL BE REPLACED.

M:\Standards\2008 - Standards\1__General\Backfill__ClassF.dwg

CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

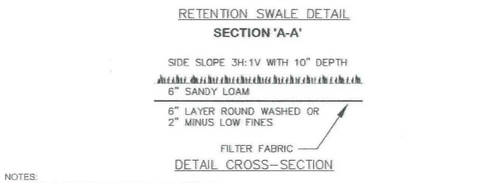
BACKFILL–
CLASS 'F'

APPROVED FOR PUBLICATION — City Engineer — Date: 2-5-09 — DWG. NO. 1–7



RETENTION SWALE DETAIL

SECTION 'A-A'



DETAIL CROSS–SECTION

NOTES:

1. SIDE SLOPES SHALL BE MAXIMUM OF 3H:1V
2. ALL SWALES SHALL HAVE A MINIMUM INFILTRATION RATE OF 0.5"/HR; GEOTECH REPORT IS REQUIRED TO INDICATE PERCOLATION WILL OCCUR WITHIN 48 HOURS.
3. SEE INLET APRON DETAIL DWG NO. 2-3
4. INLET APRON SHALL BE INSTALLED AT THE SAME TIME AS DRIVEWAY APRON AND ON THE LOWER SIDE OF DRIVEWAY APRON.
5. ONLY ON CUL-DE-SAC ROADWAYS LESS THAN 500' (SEE CITY DETAIL NO. 3-5) THE WIDTH OF THE SWALE MAYBE REDUCED.
6. MAINTAIN 2% SLOPE THROUGH WIDTH OF THE SWALE; FRONT OF THE SIDEWALK SHALL BE SET A MINIMUM OF 2" HIGHER THAN THE TOP OF CURB.

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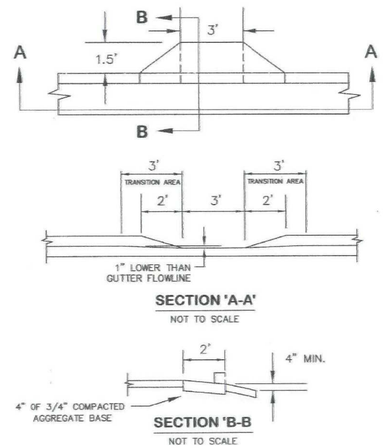
CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

RETENTION SWALE

APPROVED FOR PUBLICATION — City Engineer — Date: 6/8/10 — DWG. NO. 2–2



SECTION 'A-A'
NOT TO SCALE

SECTION 'B-B'
NOT TO SCALE

NOTES:

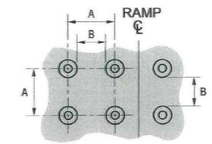
1. SET APRON ENTRANCE 1" LOWER THAN PROPOSED FLOWLINE TO ENSURE POSITIVE DRAINAGE INTO CATCH BASIN. CURB FLOWLINE SHALL BE TRANSITION TO 3' ON EACH SIDE OF INLET APRON TO ADJUST FOR 1" DROP. GUTTER LIP AND TOP OF CURB ARE NOT TO BE DEPRESSED.
2. NOT TO BE USED WHEN BUILDING ELEVATION IS LOWER THAN THE EXISTING CENTERLINE ELEVATION OF THE ADJACENT ROADWAY.
3. APRON TO SLOPE TO BOTTOM OF SWALE.

M:\Standards\2010- Standards\2-Concrete\Inlet Apron.dwg

CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

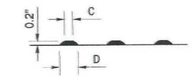
INLET APRON

APPROVED FOR PUBLICATION — City Engineer — Date: 6/8/10 — DWG. NO. 2–3



PLAN

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



SECTION VIEW

THIS PATTERN AREA SHALL BE YELLOW IN COLOR

Notes:

1. 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.
2. At least one corner of the detectable warning panel shall be coincident to the back of curb

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

CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

DETECTABLE WARNING FOR PEDESTRIAN ACCESS

APPROVED FOR PUBLICATION — City Engineer — Date: 9/1/10 — DWG. NO. 2–5

GENERAL NOTES FOR ALL TYPES OF CURB AND GUTTER

1. SECURE A PERMIT FOR CONSTRUCTION, BEFORE BEGINNING CONSTRUCTION IN PUBLIC RIGHT–OF–WAY.
2. GRADE, ALIGNMENT AND CURB TYPE SHALL BE AS APPROVED BY THE CITY ENGINEER.
3. ALIGNMENT AND GRADE STAKED TO LIP OF GUTTER (LIP) SHALL BE ESTABLISHED OR APPROVED BY THE CITY ENGINEER.
4. 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
5. BASE MATERIAL SHALL BE 4" OF 3/4 OR 5/8 INCH MINUS CRUSHED AGGREGATE BASE MATERIAL COMPACTED TO 95% MAXIMUM DENSITY AS DETERMINED BY STANDARD PROCTOR AS PER AASHTO T99. ALL FILL OR BACKFILL AREAS SHALL BE PLACED IN 6" MAXIMUM LIFTS.
6. 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.
7. 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".
8. THE CONTRACTOR ARE REQUIRED BY THE PUBLIC WORKS DEPARTMENT TO MARK STUB–OUTS AND VALVES IN THE UNCURED CONCRETE.
9. 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.
10. CONCRETE SURFACE TO HAVE A LIGHT BROOM FINISH PARALLEL WITH THE LENGTH OF THE CURB.
11. APPLY UNIFORM COAT OF REZ–SEAL OR APPROVED EQUIVALENT CURING COMPOUND TO EXPOSED CONCRETE IMMEDIATELY AFTER FINISHING..
12. ROLLED CURB AND GUTTER SHALL NOT BE USED:
    A. ON STREETS IN COMMERCIAL AND INDUSTRIAL ZONED AREAS.
    B. ON STREETS WITH LONGITUDINAL (LENGTHWISE) GRADES IN EXCESS OF 6%.
    C. ON ANY ARTERIAL OR COLLECTOR
    D. WITHOUT PRIOR APPROVAL OF THE CITY ENGINEER.
    E. WHEN SIDEWALK IS LOCATED AT THE BACK OF CURB.

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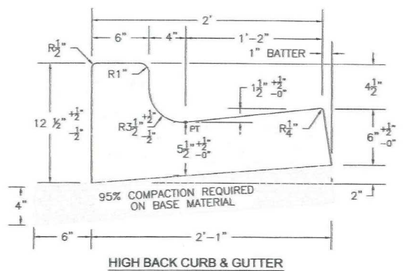
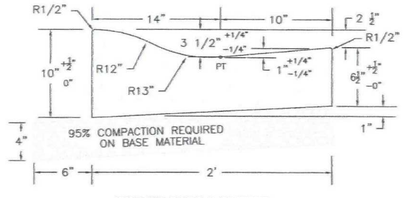
CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

GENERAL NOTES FOR ALL TYPES OF CURB AND GUTTER

APPROVED FOR PUBLICATION — City Engineer — Date: 11/22/10 — DWG. NO. 2–6



HIGH BACK CURB & GUTTER



ROLLED CURB & GUTTER

ALL TOLERANCES ARE ±1/4" UNLESS OTHERWISE NOTED

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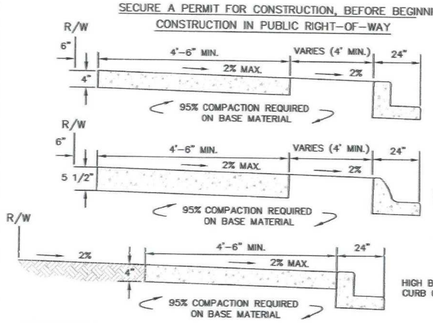
CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

HIGH BACK CURB & GUTTER
ROLLED CURB & GUTTER

APPROVED FOR PUBLICATION — City Engineer — Date: 2-5-09 — DWG. NO. 2–7

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



GENERAL NOTES FOR ALL SIDEWALK:

1. LINE AND GRADE STAKED T.S., TOP OF SIDEWALK, B.S., BACK OF SIDEWALK.
2. GRADE AND ALIGNMENT TO BE APPROVED BY THE CITY ENGINEER.
3. 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.
4. BASE MATERIAL SHALL BE 4" OF 3/4" MINUS OR 5/8" MINUS CRUSHED AGGREGATE BASE MATERIAL COMPACTED TO 95% MAX. DENSITY AS DETERMINED BY STANDARD PROCTOR AS PER AASHTO T99. ALL FILLS OR BACKFILL AREAS SHALL BE PLACED IN 6" MAX. LIFTS.
5. DUMMY JOINTS SHALL BE PLACED AT 5' INTERVALS, 3/4" TO 1" DEEP.
6. 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.
7. 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.
8. CONCRETE SURFACE TO HAVE A LIGHT BROOM FINISH PERPENDICULAR TO THE LENGTH OF SIDEWALK.
9. APPLY UNIFORM COAT OF REZ–SEAL OR APPROVED EQUIVALENT CURING COMPOUND TO EXPOSED CONCRETE IMMEDIATELY AFTER FINISHING.
10. NAME OF CONTRACTOR AND YEAR TO BE STAMPED AT EACH END OF WORK AND AT INTERVALS OF 300 FT.
11. 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.
12. 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.

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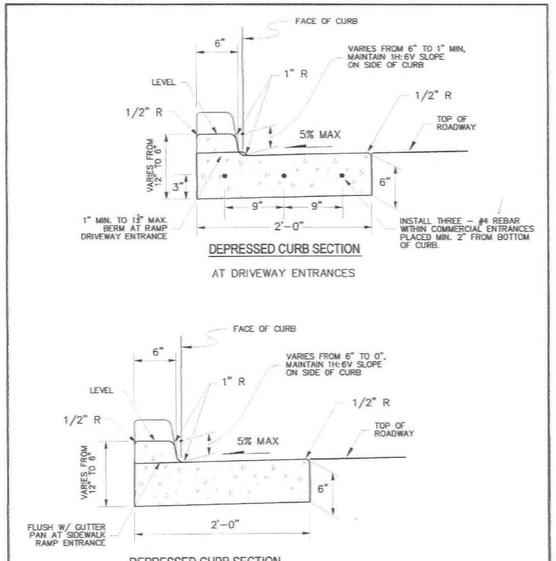
CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

CONCRETE SIDEWALK

APPROVED FOR PUBLICATION — City Engineer — Date: 11/22/10 — DWG. NO. 2–8



DEPRESSED CURB SECTION

AT DRIVEWAY ENTRANCES

DEPRESSED CURB SECTION

AT SIDEWALK RAMPS

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CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

DEPRESSED CURB SECTION

APPROVED FOR PUBLICATION — City Engineer — Date: 3-9-00 — DWG. NO. 2–10

NO.	DATE	BY	FILENAME	REVISIONS	ORIGINAL DRAWING
0			00486		

REGISTERED PROFESSIONAL ENGINEER — CHARLES R. FUHS — STATE OF IDAHO — 10962 — 12/20/16

4025 EAGLE COURT
LEWISTON, IDAHO 83501
FAX (208) 750–1082
(208) 791–8055

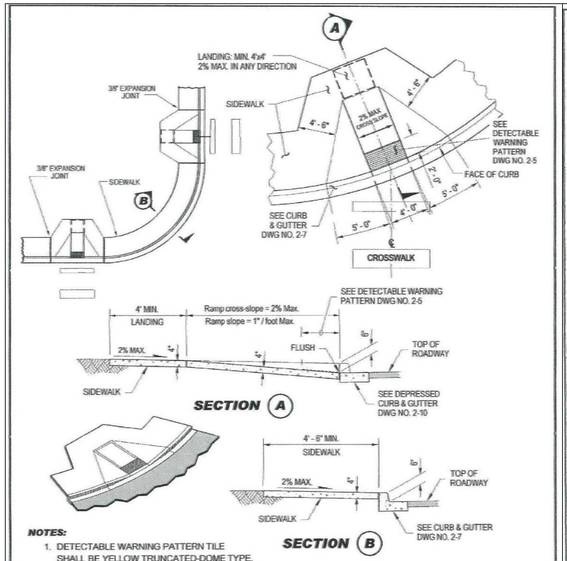
NACLINE ENGINEERING & DRAFTING "an affordable alternative"

BLUE RIBBON DRY CLEANING BUILDING

CITY DETAILS

DRAWN BY: CRF	CHECKED BY: CRF
DESIGNED BY: CRF	
SCALE: NO SCALE	
DATE: 12/20/16	
PROJECT NO.: 00486	

SHEET 11 OF 14



NOTES:

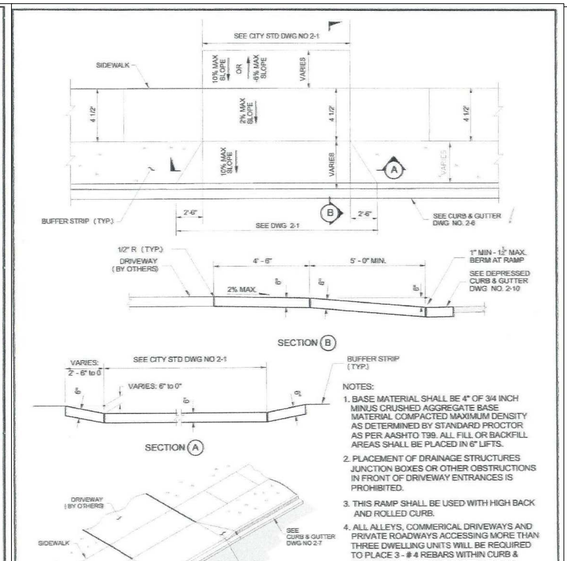
1. DETECTABLE WARNING PATTERN TILE SHALL BE YELLOW TRUNCATED-DOME TYPE.
2. RAMP SLOPES SHALL NOT BE STEEPER THAN 12H:1V.
3. A 4' x 4' MIN. CLEAR SPACE WITHIN THE CROSSWALK AREA AND 4' x 4' LANDING AREA AT TOP OF RAMP W/ 2% SLOPE IN ALL DIRECTIONS.
4. PLACEMENT OF DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS WITHIN/ OR FRONT OF RAMP OR LANDING IS PROHIBITED.
5. THIS RAMP SHALL BE USED WITH HIGH BACK AND ROLLED CURB.

\\Standards\2010-Standards\2-Concrete\Perp__Type1.dwg

CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

DOUBLE SIDEWALK RAMPS – TYPE 1

APPROVED FOR PUBLICATION	DWG. NO.
City Engineer — Date: 5/1/10	2-11



NOTES:

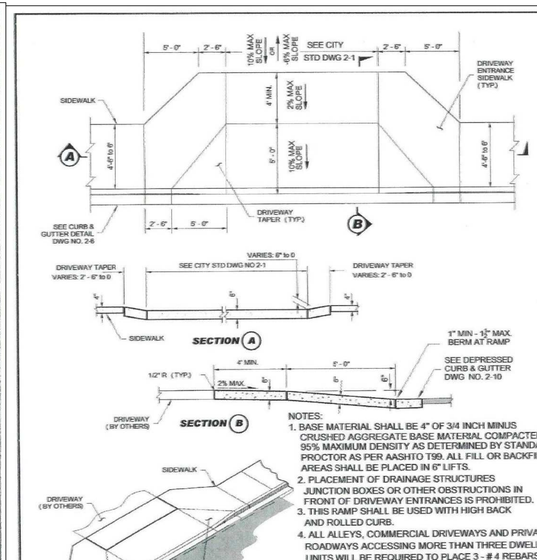
1. BASE MATERIAL SHALL BE 4" OF 3/4 INCH MINUS CRUSHED AGGREGATE BASE MATERIAL COMPACTED MAXIMUM DENSITY AS DETERMINED BY STANDARD PROCTOR AS PER AASHTO T99. ALL FILL OR BACKFILL AREAS SHALL BE PLACED IN 6" LIFTS.
2. PLACEMENT OF DRAINAGE STRUCTURES JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF DRIVEWAY ENTRANCES IS PROHIBITED.
3. THIS RAMP SHALL BE USED WITH HIGH BACK AND ROLLED CURB.
4. ALL ALLEYS, COMMERCIAL 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.

M:\Standards\2010-Standards\2-Concrete\Split_ Apron_ Sidewalk.dwg

CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

DRIVEWAY APPROACH SPLIT APRON SIDEWALK

APPROVED FOR PUBLICATION	DWG. NO.
City Engineer — Date: 11/5/09	2-16



NOTES:

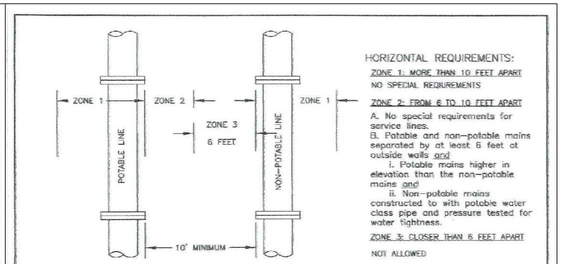
1. BASE MATERIAL SHALL BE 4" OF 3/4 INCH MINUS CRUSHED AGGREGATE BASE MATERIAL COMPACTED 95% MAXIMUM DENSITY AS DETERMINED BY STANDARD PROCTOR AS PER AASHTO T99. ALL FILL OR BACKFILL AREAS SHALL BE PLACED IN 6" LIFTS.
2. PLACEMENT OF DRAINAGE STRUCTURES JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF DRIVEWAY ENTRANCES IS PROHIBITED.
3. THIS RAMP SHALL BE USED WITH HIGH BACK AND ROLLED CURB.
4. ALL ALLEYS, COMMERCIAL 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.

M:\Standards\2010-Standards\2-Concrete\Jogged_ Driveway.dwg

CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

DRIVEWAY APPROACH JOGGED SIDEWALK

APPROVED FOR PUBLICATION	DWG. NO.
City Engineer — Date: 12/7/10	2-18



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

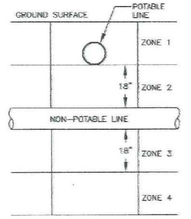
VERTICAL REQUIREMENTS:

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 non-potable line and either a or b
a) Non-potable line must be constructed to potable water pipe standards and pressure tested for water tightness for a horizontal distance of ten feet on both sides of the crossing.
b) Non-potable or potable line must be cased in a larger diameter carrier pipe for a horizontal distance of ten feet on both sides of the crossing, with no joints.

ZONE 3: POTABLE WATER < 18" UNDER NON-POTABLE LINE
Same 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
Same requirements as Zone 1 except the non-potable line must also be supported above the crossing to prevent settling.



GENERAL NOTES:

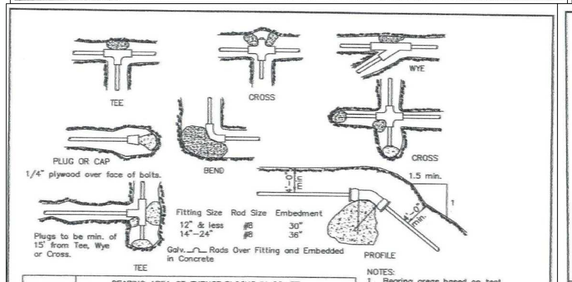
1. Sewage force mains shall have at least ten feet of horizontal separation and eighteen inches of clearance from potable water mains. Zone 2 and 3 placements are prohibited.
2. Separation requirements also apply to potable and non-potable service lines controlled by the system owner and extending the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

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

CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

POTABLE & NON-POTABLE WATERLINE SEPARATION

APPROVED FOR PUBLICATION	DWG. NO.
City Engineer — Date: 11-9-09	4-1



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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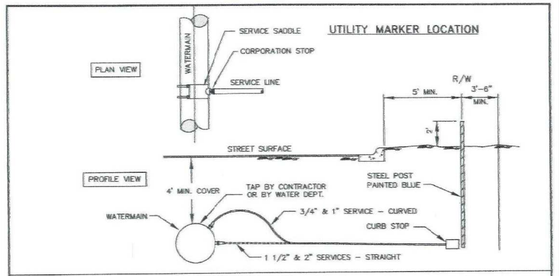
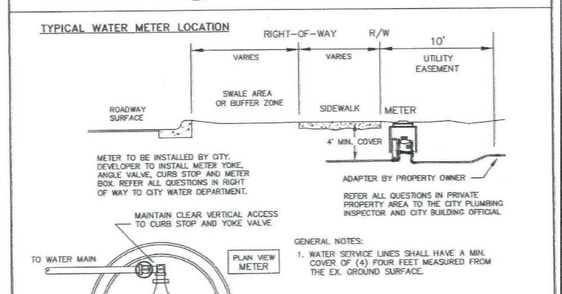
CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

THRUST BLOCKING DETAIL

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





GENERAL NOTES:

1. WATER SERVICE LINES SHALL HAVE A MIN. COVER OF (4) FOUR FEET MEASURED FROM THE EX. GROUND SURFACE.

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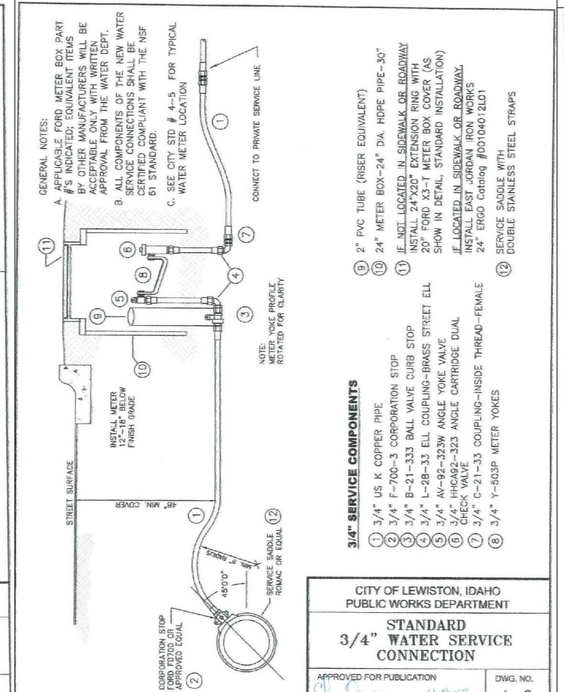
CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

TYPICAL WATER METER or UTILITY MARKER LOCATION

APPROVED FOR PUBLICATION	DWG. NO.
City Engineer — Date: 11-9-09	4-5



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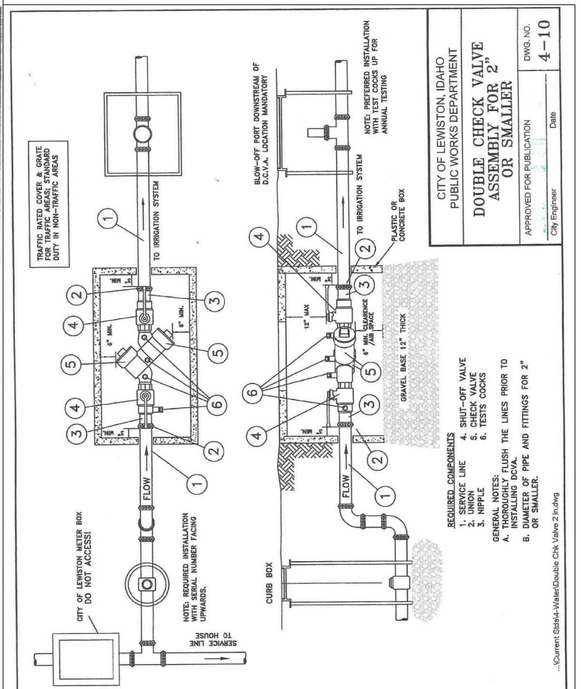
CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

STANDARD 3/4" WATER SERVICE CONNECTION

APPROVED FOR PUBLICATION	DWG. NO.
City Engineer — Date: 11-9-09	4-6



CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

DOUBLE CHECK VALVE ASSEMBLY FOR 2" OR SMALLER

APPROVED FOR PUBLICATION	DWG. NO.
City Engineer — Date: 11-9-09	4-10

NO.	DATE	BY	FILENAME	REVISIONS
0			00486	ORIGINAL DRAWING

4025 EAGLE COURT
LEWISTON, IDAHO 83501
FAX (208) 750-1082
(208) 791-8655

NACLINE
ENGINEERING & DRAFTING
"an affordable alternative"

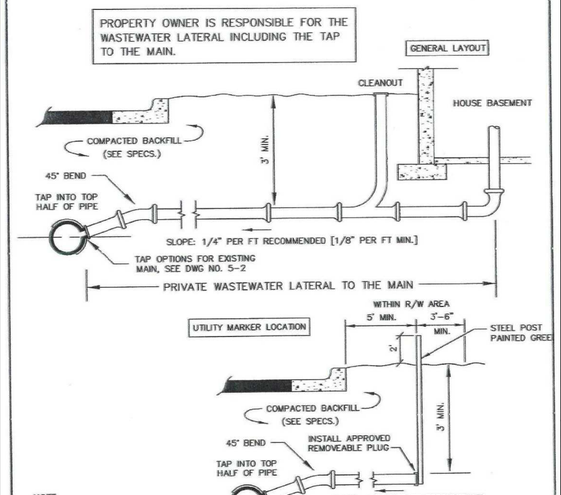
BLUE RIBBON
DRY CLEANING BUILDING

CITY DETAILS

DRAWN BY: CRF	CHECKED BY: CRF
DESIGNED BY: CRF	
SCALE: NO SCALE	
DATE: 12/20/16	
PROJECT NO.: 00486	

SHEET 12 OF 14

...\Current Stds\4-Water\Double Chk Valve 2 in.dwg

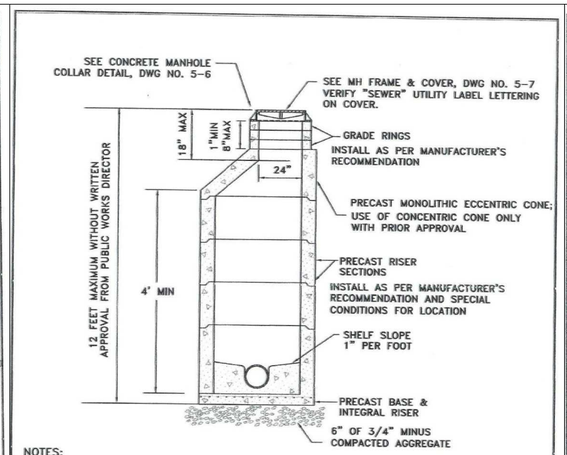


\Standards\2010-Standards\5-Sanitary\SS Service Connection.dwg

CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

WASTEWATER PRIVATE SERVICE CONNECTION

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



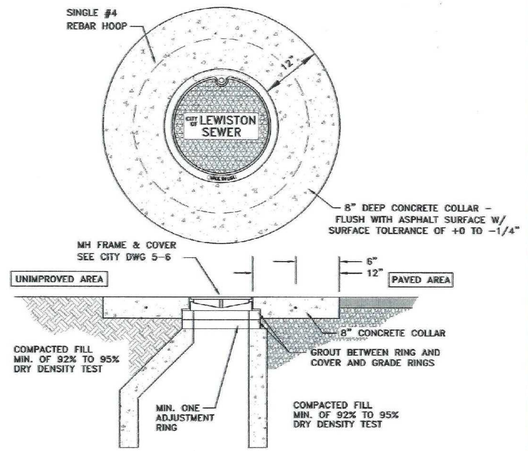
NOTES:
1. ALL UNITS TO MEET OR EXCEED THE REQUIREMENTS OF ASTM C478/AASHTO M199. JOINTS SHALL BE RUBBER GASKET CONFORMING TO ASTM C443 AND SHALL BE GROUTED FROM THE INSIDE. LIFT HOLES SHALL BE GROUTED FROM THE OUTSIDE AND INSIDE OF THE MANHOLE.
2. PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. 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.
4. 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.
5. PRESSURE TESTING IS REQUIRED FOR ALL INSTALLATIONS.
6. SEE DWG NO 5-6 FOR CONCRETE MANHOLE COLLAR.

\Standards\2010-Standards\6-SanitarySewer\SS MH Type 1.dwg

CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

WASTEWATER TYPE 1 MANHOLE

APPROVED FOR PUBLICATION — Glenn Stellers 12/13/10 — City Engineer — Date
DWG. NO. 5-3



NOTES:
1. A CIRCULAR-SHAPED CONCRETE COLLAR IS REQUIRED ON ALL INSTALLATIONS; IN BOTH PAVED OR UNIMPROVED AREAS. INSTALL A 8" 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.

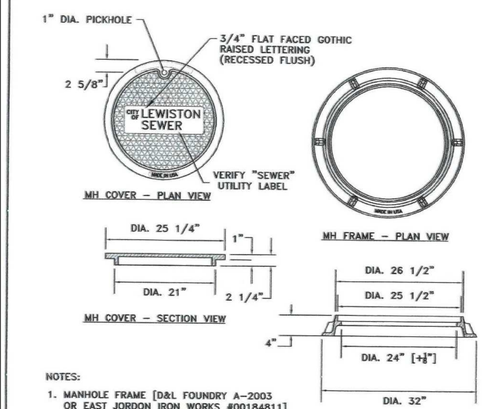
\Standards\2010-Standards\5-SanitarySewer\SS MH Collar.dwg

SIMILAR TO CITY STD NO. 6-4

CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

WASTEWATER CONCRETE MANHOLE COLLAR

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



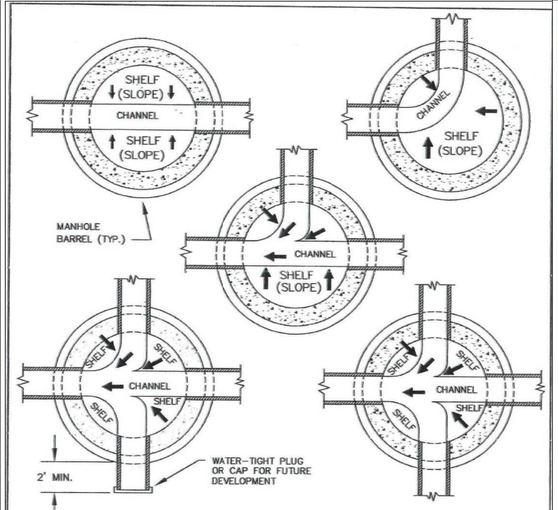
NOTES:
1. MANHOLE FRAME [D&L FOUNDRY A-2003 OR EAST JORDON IRON WORKS #00184811] AND COVER [EJIW #00184849 OR D&L A-2010-01] OR BY OTHER MANUFACTURER WILL BE ACCEPTABLE ONLY WITH WRITTEN APPROVAL FROM PUBLIC WORKS DEPT.; VERIFY "SEWER" UTILITY LABEL LETTERING ON COVER.
2. COVER MATERIAL SPECIFICATION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

\Standards\2010-Standards\5-SanitarySewer\MH Frame_Cover.dwg

CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

WASTEWATER MANHOLE FRAME AND COVER

APPROVED FOR PUBLICATION — Glenn Stellers 12/13/10 — City Engineer — Date
DWG. NO. 5-7



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.

\Standards\2010-Standards\5-SanitarySewer\Channel Detail.dwg

CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

WASTEWATER MANHOLE CHANNEL DETAIL

APPROVED FOR PUBLICATION — Glenn Stellers 12/13/10 — City Engineer — Date
DWG. NO. 5-8

GENERAL NOTES FOR CATCH BASINS

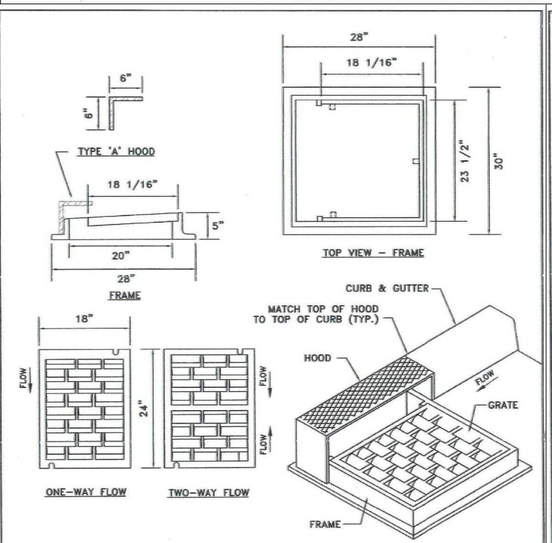
1. ALL UNITS TO MEET OR EXCEED THE REQUIREMENTS OF ASTM C478/AASHTO M199.
2. ALL CURB INLET STRUCTURES SHALL HAVE A MINIMUM 12" SUMP WITH THREE 1 1/2" DIA. WEEP HOLES IN BASE AND MINIMUM OF 12" OF COMPACTED 5/8" MINUS UNDER BASE; CRUSHED AGGREGATE MATERIAL COMPACTED TO 95% MODIFIED PROCTOR AS PER AASHTO 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.

M:\Standards\2010-Standards\6-StormSewer\CB General-Notes.dwg

CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

STORMWATER GENERAL CATCH BASIN NOTES

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



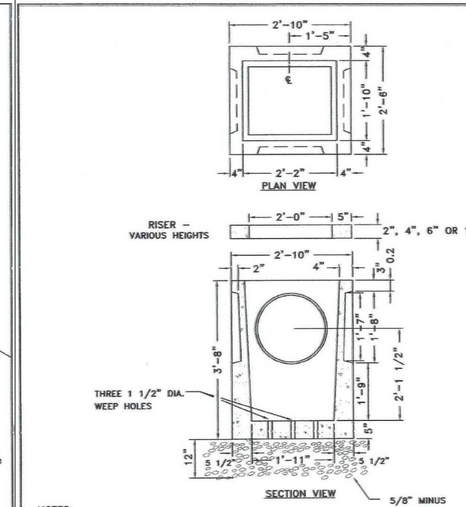
NOTES:
1. CURB INLET CATCH BASIN FRAME [D & L SUPPLY - PRODUCT I-4434], GRATE AND HOOD OR BY OTHER MANUFACTURER WILL BE ACCEPTABLE ONLY WITH WRITTEN APPROVAL FROM PUBLIC WORKS DEPT.
2. COVER MATERIAL SPECIFICATION GRAY IRON (ASTM A48 CL35B)
3. SEE CITY DWG 6-6 'GENERAL NOTES FOR CATCH BASIINS'.

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

CITY OF LEWISTON, IDAHO
PUBLIC WORKS DEPARTMENT

STORMWATER CATCH BASIN FRAME AND GRATE

APPROVED FOR PUBLICATION — Glenn Stellers 12/13/10 — City Engineer — Date
DWG. NO. 6-7



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 — Glenn Stellers 12/13/10 — City Engineer — Date
DWG. NO. 6-8

NO.	DATE	BY	REVISIONS
0			ORIGINAL DRAWING

FILENAME 00486

REGISTERED PROFESSIONAL ENGINEER — CHARLES R. FISKE — 10962 — STATE OF IDAHO — 12/20/16

4025 EAGLE COURT
LEWISTON, ID 83501
FAX (208) 790-1082
(208) 791-8655

NACLINE ENGINEERING & DRAFTING "an affordable alternative"

BLUE RIBBON
DRY CLEANING BUILDING
CITY DETAILS

DRAWN BY: CRF	CHECKED BY: CRF
DESIGNED BY: CRF	
SCALE: NO SCALE	
DATE: 12/20/16	
PROJECT NO.: 00486	

SHEET 13 OF 14

ITEM	MATERIAL	TEST / STANDARD	ACCEPTANCE	TEST FREQUENCY	INSPECTOR/CO.	DATE	INITIA
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).			
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 = 6.5% ± 1.5 Temperature = 50°F - 90°F	1 of Each Test Minimum per Day, or 1 of Each Test per 50 CY			
CRUSHED AGGREGATE BASE COURSE	3/4" minus Crushed Aggregate (4" Max. Lift) (Current ITD Spec 703.04) OR 5/8" minus Crushed Aggregate (4" Max. Lift) (Current WDOT/M41-10 Spec 9-03.9)	Moisture Density Relationship of Soils (AASHTO T 180) In-Place Density and Moisture Content (AASHTO 310 Method B)	95% Max. Dry Density	1 Tests Per 500 LF-Min 2 Tests			
ALIGNMENT AND GRADE	N/A	Visual	± 0.02' from Design Grade/Alignment	Per 10' Section	City Approval		
JOINTS/FLATNESS/STRAIGHTNESS	N/A	Visual	± 0.02'/10' Segment	Per 10' Section			
FINISH	N/A	Visual	Floated, Uniform, Light Broom Finish	Entire Surface Area			
6. ASPHALTIC CONCRETE PAVING							
SUPERPAVE HOT MIX ASPHALT	ITD 405 Superpave Class SP2, SP3 and SP5 (2012 ITD Spec 405 and 703.05)	**Class SP2:** AASHTO T-308, Asphalt Content AASHTO T-27 & T-11, Sieve Analysis WAQTC TM-8, In-Place Density of Bituminous Mixes AASHTO T-209, Theoretical Maximum Density (RICE) **Class SP3 and SP5:** AASHTO T-308, Asphalt Content AASHTO T-27 & T-11, Sieve Analysis AASHTO T-166 Method A, Air Voids, and Voids in Mineral Aggregates (VMA) WAQTC TM-8, In-Place Density of Bituminous Mixes AASHTO T-209, Theoretical Maximum Density (RICE)	**ITD Section 405.03** Asphalt Content - CJMF Value +/- 0.3% Sieve Analysis - Table 405.03-5 Air Voids = 4.0 +/- 1.0% Voids in Mineral Aggregates, at N design, 703.05 Minimum Value 0.05b Voids Filled with Asphalt - Table 703.05-1 +/- 5 In-Place Density - 92-65% of Maximum Theoretical	1Test Per 750 Ton; Minimum of 1 Test per Project. Random Sample Locations Determined by City Engineer.			
CRUSHED AGGREGATE BASE COURSE*	Same test requirement as under 5. **Concrete Curb, Gutter & Sidewalk**						
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. PRIVATE STORMWATER SYSTEM	Per Approved Plan	City Resolution #80-100	Certified & Visual by City		Certified & Visual by City + Underground infrastructure elements must be approved by City prior to backfill.		
10. RECORD DRAWINGS	Auto-CAD Elect File, Bond Paper, 22" x 34" Min Size	City Checklist		Before Public Improvements Accepted			
11. ENGINEER'S CERTIFICATION							
Date Last: Revised September 2016							
ecklist:-A							

NO.	DATE	BY	FILENAME	REVISIONS
1	10/20/16	CRF		NEW SHEET - CITY INSPECTION CHECKLIST
				ORIGINAL DRAWING
0			00486	

REGISTERED PROFESSIONAL ENGINEER — CHARLES R. FIKE — STATE OF IDAHO — 10962 — 12/20/16

4025 EAGLE COURT
LEWISTON, IDAHO 83501
FAX (208) 790-1082
(208) 791-8055

NACLINE ENGINEERING & DRAFTING "an affordable alternative"

BLUE RIBBON
DRY CLEANING BUILDING
CITY INSPECTION CHECKLIST

DRAWN BY: CRF	CHECKED BY: CRF
DESIGNED BY: CRF	
SCALE: NO SCALE	
DATE: 12/20/16	
PROJECT NO.: 00486	
SHEET 14 OF 14	