

TESC PLAN LEGEND

CODE SYMBOL DESCRIPTION

CRS		CONSTRUCTION ROAD STABILIZATION SEE DETAIL A/3
SF		SILT FENCE. SEE DETAIL C/3 AT C&S DISCRETION
IP		INLET PROTECTION (CATCH BASIN INSERT) SEE DETAIL B/3
VEG		RETAIN EXISTING VEGETATION
PS		PERMANENT SEEDING AND PLANTING
DC		DUST CONTROL

NOTE: SILT FENCE SHALL BE INSTALLED IF WARRANTED BY SITE CONDITIONS AS DETERMINED BY THE ENGINEER OR THE CITY INSPECTOR. THE SILT FENCE SHALL BE PLACED AS REQUIRED TO PREVENT SILT LADEN RUNOFF FROM LEAVING THE SITE. SEE DETAIL C/3 FOR SILT FENCE INSTALLATION.

TBR TO BE REMOVED

CONSTRUCTION SEQUENCE:

1. INSTALL CONSTRUCTION ENTRANCE.
2. INSTALL SILT FENCING.
3. INSTALL CATCH BASIN INLET PROTECTION IN ALL EXISTING CATCH BASINS WHICH MAY RECEIVE SILT LADEN RUNOFF.
4. INSTALL STORM SYSTEM AND INLET PROTECTION ON CATCH BASINS AS THEY ARE INSTALLED.
5. GRADE PARKING LOT AND BUILDING PAD WITH PROPOSED PERMANENT STORM SYSTEM.
6. FINISH PARKING LOT AND UTILITIES. REMOVE SILT FROM SYSTEM.
7. APPLY PERMANENT TESC MEASURES TO INCLUDE PERMANENT SEEDING AND SOIL STABILIZATION BMP AS REQUIRED.

DEMOLITION NOTE:

DEMOLISHED ITEMS SHALL BE REMOVED FROM THE JOB SITE AND DISPOSED OF AT A PERMITTED DUMP SITE.

ROS AF NO. 940810023
PARCEL NO. 390219454017

CONTRACTOR SHALL MAINTAIN
INTEGRITY OF EXISTING STORM
DRAINAGE PIPE. ANY DAMAGE
TO PIPE SHALL BE REPAIRED
AT CONTRACTOR'S EXPENSE.

CONSTRUCT THIS PORTION OF
STORM SYSTEM (AS SHOWN) TO
DRAIN SEDIMENT POND. SEE
SHEET 4 FOR DESIGN INFO.

CONSTRUCT TEMPORARY SEDIMENT
POND PER DETAIL A/2
SURFACE AREA REQUIRED = 82 SF
(APPROX. 6' W x 14' L)
GRFICE SIZE = 0.108 SI

APPROX. LOCATION OF SEWER STUB.
CONTRACTOR TO VERIFY.

CONTRACTOR SHALL CUT, CAP & ABANDON
EXISTING SEWER STUB, AT BACK OF SIDEWALK,
PER CITY OF FERNDALE INSPECTOR'S DIRECTION.

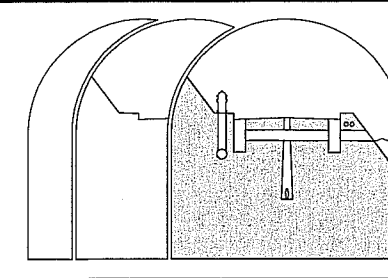
FERNDAL SURVEY
MONUMENT #338
N. 67°15'01" E.
E. 121°49'25" W.
EL. = 37.66'

CORRELL DR.

10 0 10
SCALE 1" = 10'
NORTH

CALL 48 HOURS
BEFORE YOU DIG
1-800-424-5555

NO.	DATE	REVISIONS	BY	APPROVED
1	04/29/13	REVISED PER CITY COMMENTS	PLAU	PSEVERIN
2	06/03/13	REVISED PER CITY COMMENTS	PLAU	PSEVERIN
3	04/11/14	CONSTRUCTION RECORD DRAWINGS	PLAU	PSEVERIN
4	04/21/14	REVISED CONSTRUCTION RECORD DRAWINGS PER CITY	PLAU	PSEVERIN



Sound Development Group
ENGINEERING, SURVEYING & LAND DEVELOPMENT SERVICES
P.O. Box 1705 • 1111 Cleveland Avenue, Suite 202
Mount Vernon, WA 98273
Tel: 360-404-2010 Fax: 360-404-2013

SHEET DESCRIPTION

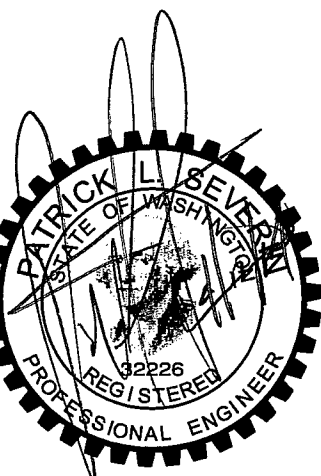
EXISTING CONDITIONS,
DEMOLITION & TESC PLAN

SCALE
DRAWN BY:
DESIGNED BY:
CHECKED BY:
FIELD BOOK/PAGE
DATE

1" = 10'
PLAU
PSEVERIN
PSEVERIN
FEBRUARY 2012

PROJECT
WHATCOM PHYSICAL THERAPY
FOR
CARLETTI ARCHITECTS
IN A PORTION OF SE 1/4, SECTION 19, TOWNSHIP 39 N., RANGE 2 E., W.M.

APPROVED
APR 25 2014
BY *J. H. P.E.*
CITY OF FERNDALE



JOB NO.
12076
DRAWING NAME
12076PLN-ASB.dwg
SHEET
2 OF 7

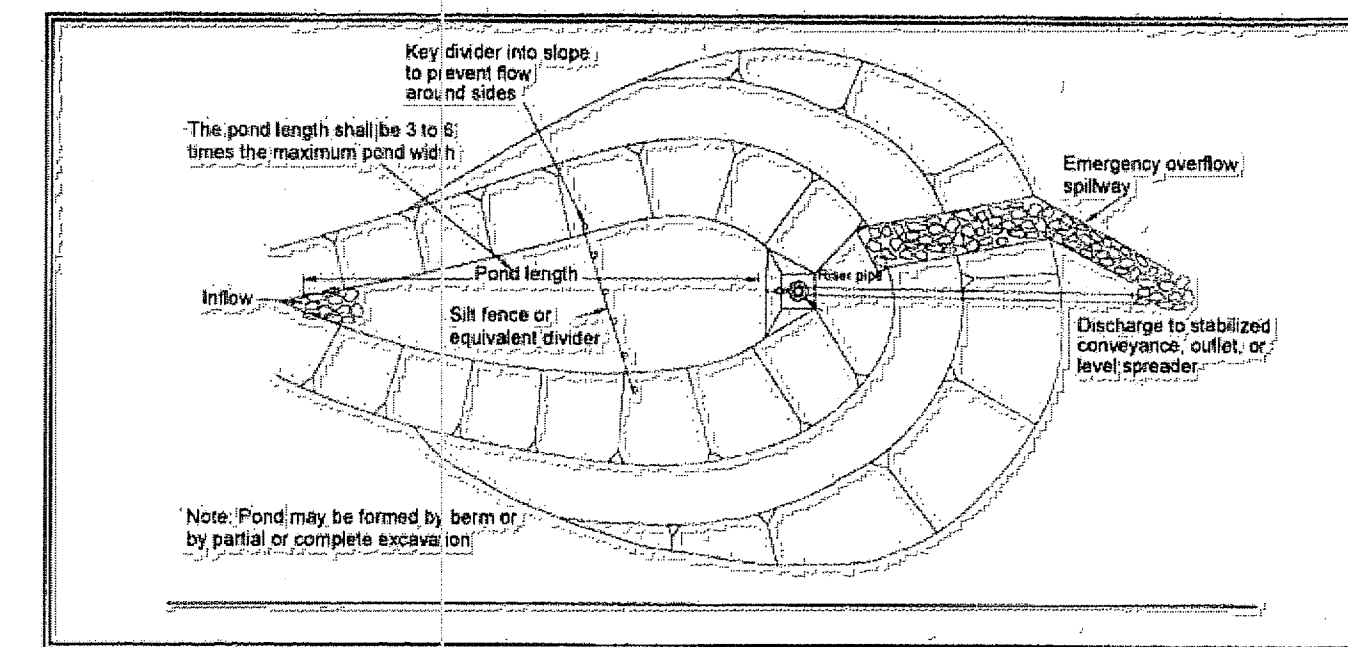


Figure 4.2.18 - Sediment Pond Plan View

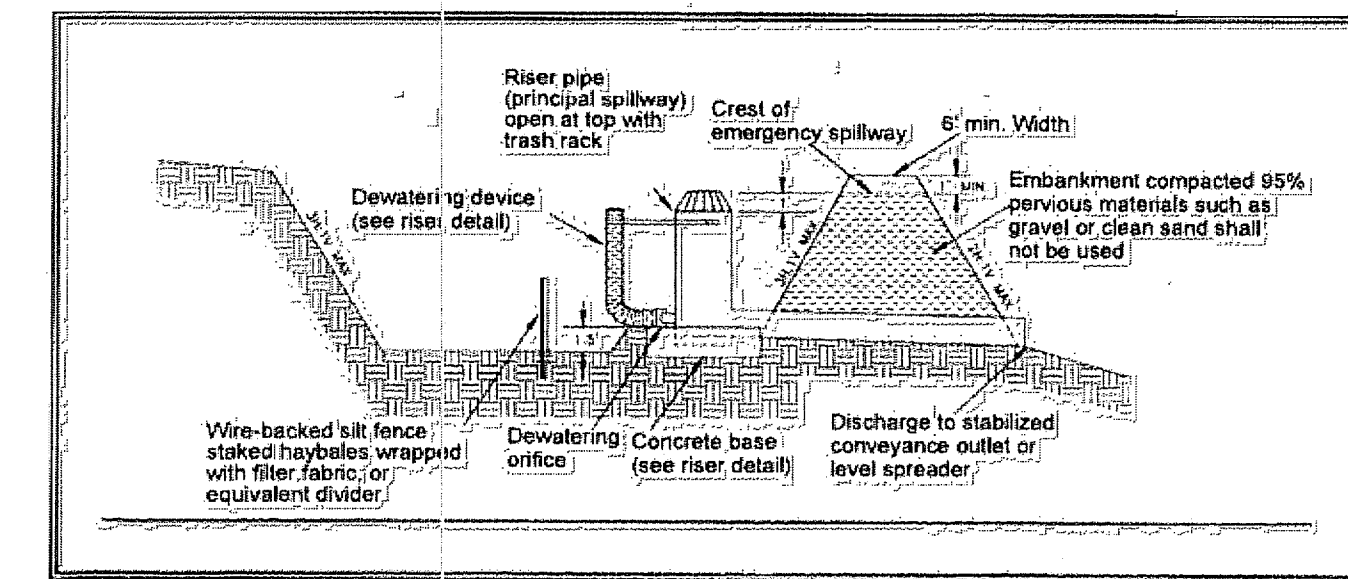


Figure 4.2.19 - Sediment Pond Cross Section

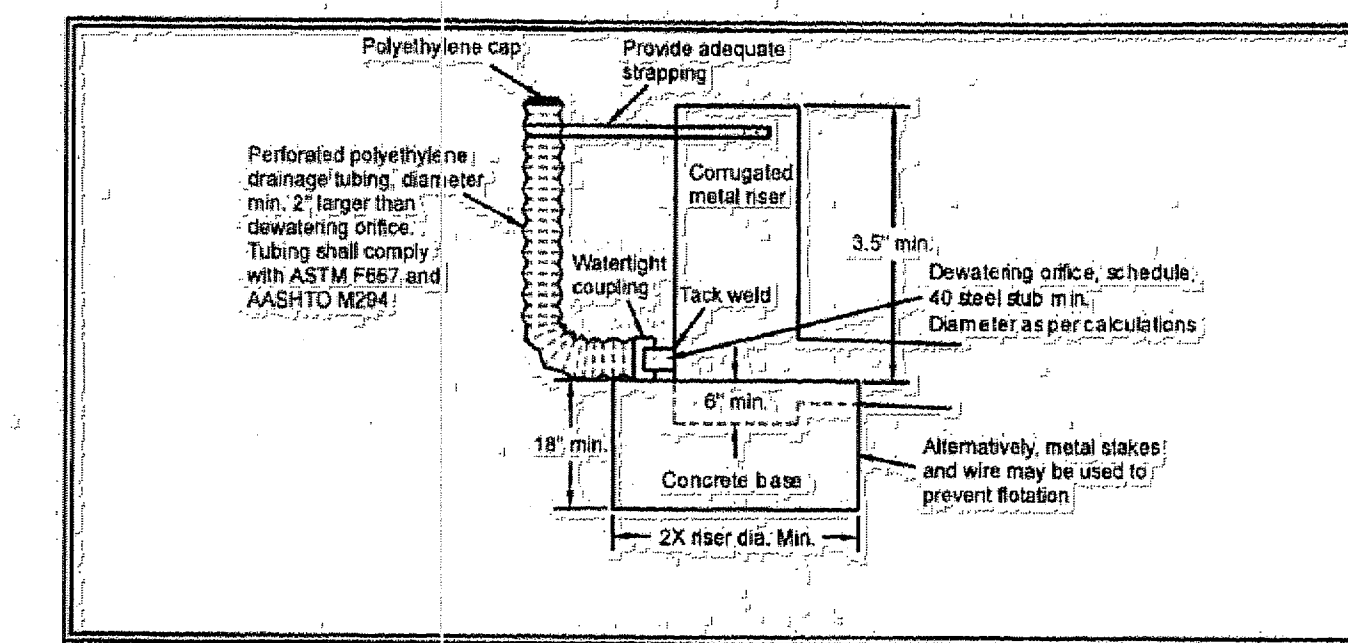


Figure 4.2.20 - Sediment Pond Riser Detail

TEMPORARY SEDIMENT POND DETAIL
NOT TO SCALE

CONSTRUCTION RECORD DRAWING

CONSTRUCTION RECORD NOTE
THESE DRAWINGS ARE PREPARED USING A COMBINATION OF CONTRACTOR PROVIDED
RECORDS AND A CONSTRUCTION RECORD SURVEY PERFORMED BY NORTHWEST
SURVEYING & GPS IN APRIL 2014. THE CONSTRUCTION RECORDS OF SAID DRAWINGS
WERE PERFORMED BY SOUND DEVELOPMENT GROUP 04.11.14.

CONSTRUCTION RECORD LEGEND
102.02 - INDICATES CONSTRUCTED AS DESIGNED
102.00 102.02 - INDICATES CONSTRUCTION RECORD

FD 11/01/77 7200:305500

1. FOR UTILITY TRENCHING REFER TO CITY DETAIL SS-1 FOR SANITARY SEWER, CITY DETAIL ST-17 FOR STORM DRAINAGE AND CITY DETAIL W-11 FOR WATERLINE.
2. NATIVE SOILS BENEATH PROPOSED INFILTRATION FACILITY SHALL BE VERIFIED FOR INFILTRATION RATE PRIOR TO STORMWATER SYSTEM INSTALLATION BY A LICENSED GEOTECHNICAL ENGINEER.
3. EXISTING SANITARY SEWER SERVICE TO BE ABANDONED AT MAINLINE TEE AND CAPPED WITH WATERTIGHT PLUG.
4. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR GAS, PHONE AND POWER CONNECTION LOCATIONS.

CONSTRUCTION RECORD NOTE:
THESE DRAWINGS ARE PREPARED USING A COMBINATION OF CONTRACTOR PROVIDED
REDLINES AND A CONSTRUCTION RECORD SURVEY PERFORMED BY NORTHWEST
SURVEYING & GPS IN APRIL 2014. THE CONSTRUCTION RECORDS OF SAID DRAWINGS
WERE PERFORMED BY SOUND DEVELOPMENT GROUP 04.11.14.

CONSTRUCTION RECORD LEGEND

102.02 -INDICATES CONSTRUCTED AS DESIGNED
~~102.00~~ 102.02 -INDICATES CONSTRUCTION RECORD

CB#1, TYPE 1 CATCH BASIN, STD GRATE
RIM = ~~39.70~~ 39.78
IE 8" D.I., S = ~~38.21~~ 38.33

CB#2, TYPE 1 CATCH BASIN, STD GRATE
RIM = ~~39.95~~ 40.02
IE 8" P.V.C. SDRSS, S = ~~37.96~~ 38.15
IE 8" D.I., S = ~~37.96~~ 37.93

CB#3, TYPE 1 CATCH BASIN, BEEHIVE, SEE
RAIN GARDEN DETAIL J/5
RIM = ~~38.30~~ 38.53
IE 8" PERF., W = ~~35.40~~ 35.66

CB#4, TYPE 1 CATCH BASIN, THRU GRATE
RIM = ~~38.29~~ 38.33
IE 8" P.V.C. SDRSS, W = ~~35.40~~ 35.63
IE 8" PERF., N = ~~35.40~~ 35.59
IE 8" PERF., E = ~~35.40~~ 35.65

CB#5, TYPE 1 CATCH BASIN, STANDARD TOP
RIM = ~~39.80~~ 39.86
IE 8" P.V.C. SDRSS, W = ~~36.30~~ 36.87
IE 8" P.V.C. SDRSS, E = ~~35.22~~ 35.82
IE 8" P.V.C. SDRSS, N = ~~35.22~~ 35.86

MAINTAIN EXISTING POSITIVE DRAINAGE
WESTERN PROPERTY LINE TO E
THE SW CORNER OF THE SITE.

JOINTS SHALL BE PLACED AT 10' INTERVALS. JOINTS SHALL BE CUT VERTICALLY AND TO A DEPTH OF 5 INCHES.

1. ALL ASPHALT SHALL BE HOT MIX ASPHALT CONFORMING TO SECTION 5-04.4 OF THE 2012 STANDARD SPECIFICATIONS, COMPACTED TO A MINIMUM OF 91% RHEAL DENSITY, WHERE PROPOSED ASPHALT ABUTS EXISTING ASPHALT, THE EXISTING ASPHALT SHALL BE SAW CUT FULL DEPTH AND TACK COATED IMMEDIATELY BEFORE PAVING. ALL SURFACE JOINTS SHALL BE SEALED WITH AR 4000 W AND SAND, APPLIED WITH HOT.
2. CRUSHED SURFACE BASE COURSE SHALL CONFORM TO SECTION 9-03.9.1 OF THE 2012 STANDARD SPECIFICATIONS, COMPACTED TO A MINIMUM OF 95% MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D-1557 TESTING. ALL CRUSHED SURFACING SHALL BE SPRAWLED WITH RESIDUAL HERBICIDE A MAXIMUM OF 24 HOURS PRIOR TO PAVING, ACCORDING TO SECTION 5-04.3.10 OF THE 2012 STANDARD SPECIFICATIONS.
3. GRAVEL BASE, A MINIMUM OF 12 INCH COMPACTED DEPTH SHALL SUPPORT ALL PAVEMENT, GRAVEL BORROW WITH LESS THAN 8% PASSING THE 200 SIEVE, SHALL CONFORM TO SECTION 9-03.14 OF THE 2012 STANDARD SPECIFICATIONS COMPACTED TO A MINIMUM OF 95% MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D-1557 TESTING EXISTING GRAVEL MATERIAL MAY BE UTILIZED AS GRAVEL BORROW AS DETERMINED BY THE GEOTECHNICAL ENGINEER.
4. THE EXCAVATED SUBGRADE SHALL BE FREE OF TOPSOIL, ORGANICS, AND OTHER DELETERIOUS MATERIAL, COMPACTED TO A MINIMUM OF 95% MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D-1557 TESTING, PREPARED CONFORMING TO SECTION 2-06.3.1) OF THE 2012 STANDARD SPECIFICATIONS.
5. EXTRUDED CONCRETE CURBS SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON THE PLANS, BEARING FULLY ON THE COMPLETED ASPHALT SURFACING AND BONDED USING CONCRETE SLURRY OR EPOXY. ALL CURBS SHALL BE IN STRAIGHT LINES AND PLACED ACCORDING TO THE RADIIUS ON THE PLANS.

SEE TYPICAL SITE PAVEMENT
DETAIL FOR ASPHALT SECTION

SLOPE VARIES
AS INDICATED

10"

0.5"

2'

6"

CONCRETE SIDEWALK

1" MIN. OR
AS INDICATED

6" MIN. GRAVEL BASE COMPACTED
TO 95% OF MAX. DENSITY.

2 #4 REBAR ENTIRE LENGTH

AREAS NOT ADJACENT TO PROPOSED ASPHALT AS INDICATED ON THE SITE PLAN SHALL NOT HAVE A THICKENED CONCRETE EDGE, AND SHALL BE CONSTRUCTED AS INDICATED. ALL CONCRETE SIDEWALKS SHALL BE CLASS 3000. SIDEWALKS NOT ADJACENT TO PROPOSED ASPHALT SHALL BE 4" CONCRETE OVER 6" GRAVEL BORROW WITH THE SUBGRADE PREPARED PER SPECIFICATIONS.

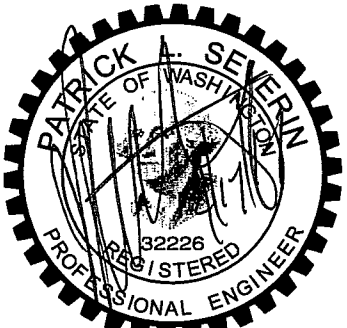
Diagram illustrating the cross-section of a retaining wall construction, showing the following components and dimensions:

- TOPSOIL/LANDSCAPING PER LANDSCAPE PLANS
- 6"
- KEYSTONE "I" UNIVERSAL CAP UNIT SECURED WITH KAPSEAL ADHESIVE OR EQUAL
- TW
- KEYSTONE WALL UNIT
- 1
- 6
- LEVELING PAD C.S.T.C. COMPACTED TO A MINIMUM OF 95% MAXIMUM DENSITY PER ASTM D-1557 (MODIFIED PROCTOR)
- COMPACT NATIVE SUBGRADE TO MINIMUM OF 95% MAXIMUM DRY DENSITY PER ASTM D-1557 (MODIFIED PROCTOR)

APPROVED

APR 25 2011

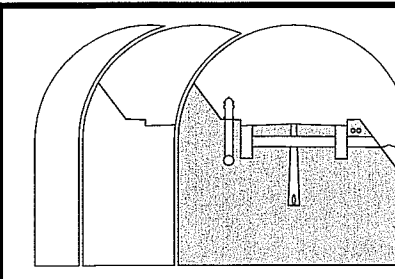
BY J. H. G. P.E.
CITY OF FERNDALE



JOB NO.
12076
DRAWING NAME
12076PLN-ASB.dwg
SHEET
4 OF 7

**CALL 48 HOURS
BEFORE YOU DIG
1-800-424-5555**

1	04.29.13	REVISED PER CITY COMMENTS	PLAU	PSEVERI
2	06.03.13	REVISED PER CITY COMMENTS	PLAU	PSEVERI
3	04.11.14	CONSTRUCTION RECORD DRAWINGS	PLAU	PSEVERI
4	04.21.14	REVISED CONSTRUCTION RECORD DRAWINGS PER CITY	PLAU	PSEVERI
NO.	DATE	REVISIONS	BY	APPROV



Sound Development Group
ENGINEERING, SURVEYING & LAND DEVELOPMENT SERVICES
P.O. Box 1705 • 1111 Cleveland Avenue, Suite 202
Mount Vernon, WA 98273
Tel: 360-404-2010 Fax: 360-404-2013

**PROPOSED GRADING,
DRAINAGE & UTILITY PLAN**

SCALE:
DRAWN BY:
DESIGNED BY:
CHECKED BY:
FIELD BOOK/PAGE:
DATE:

1" = 10'

P.LAU

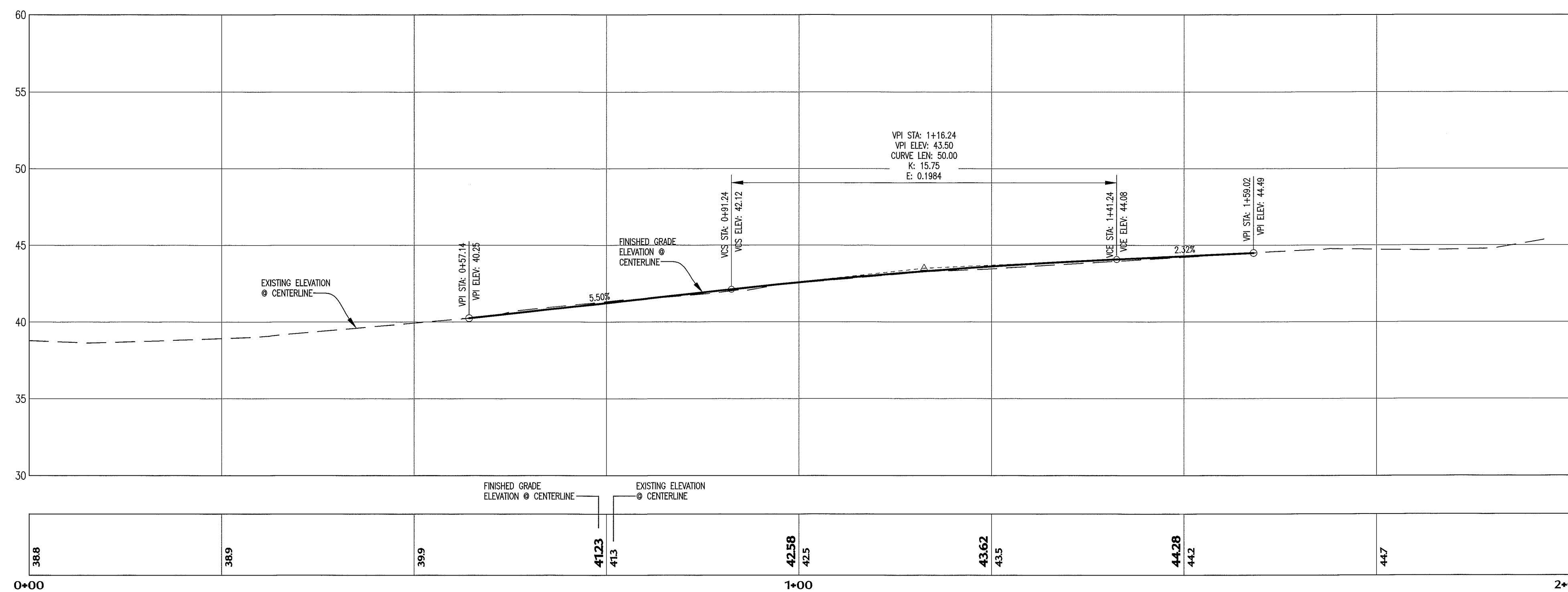
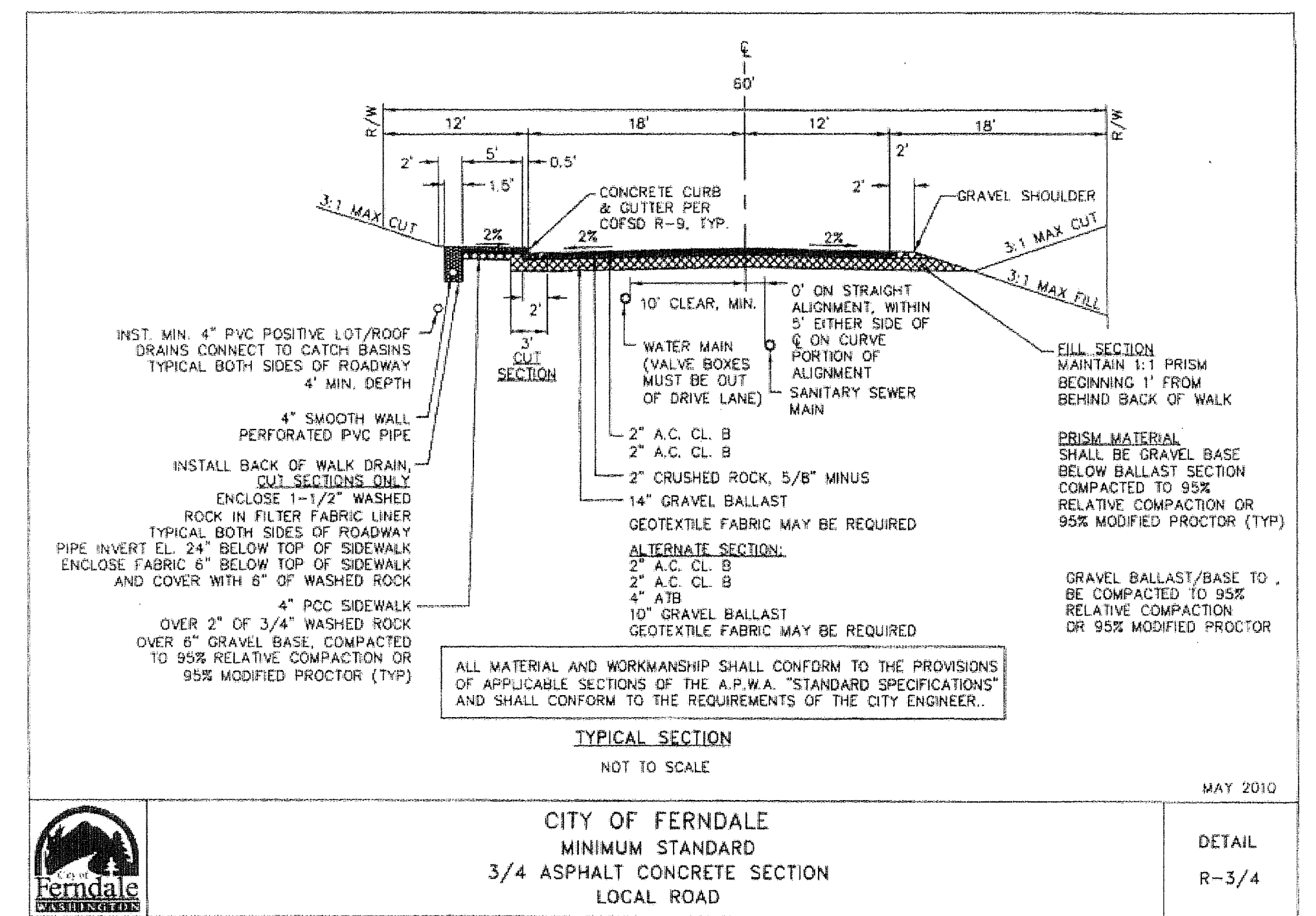
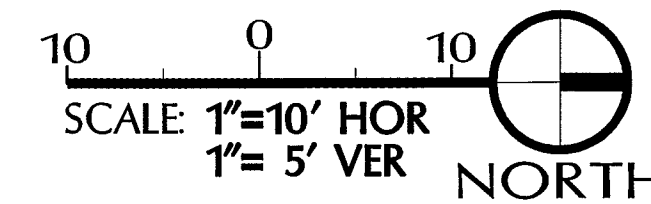
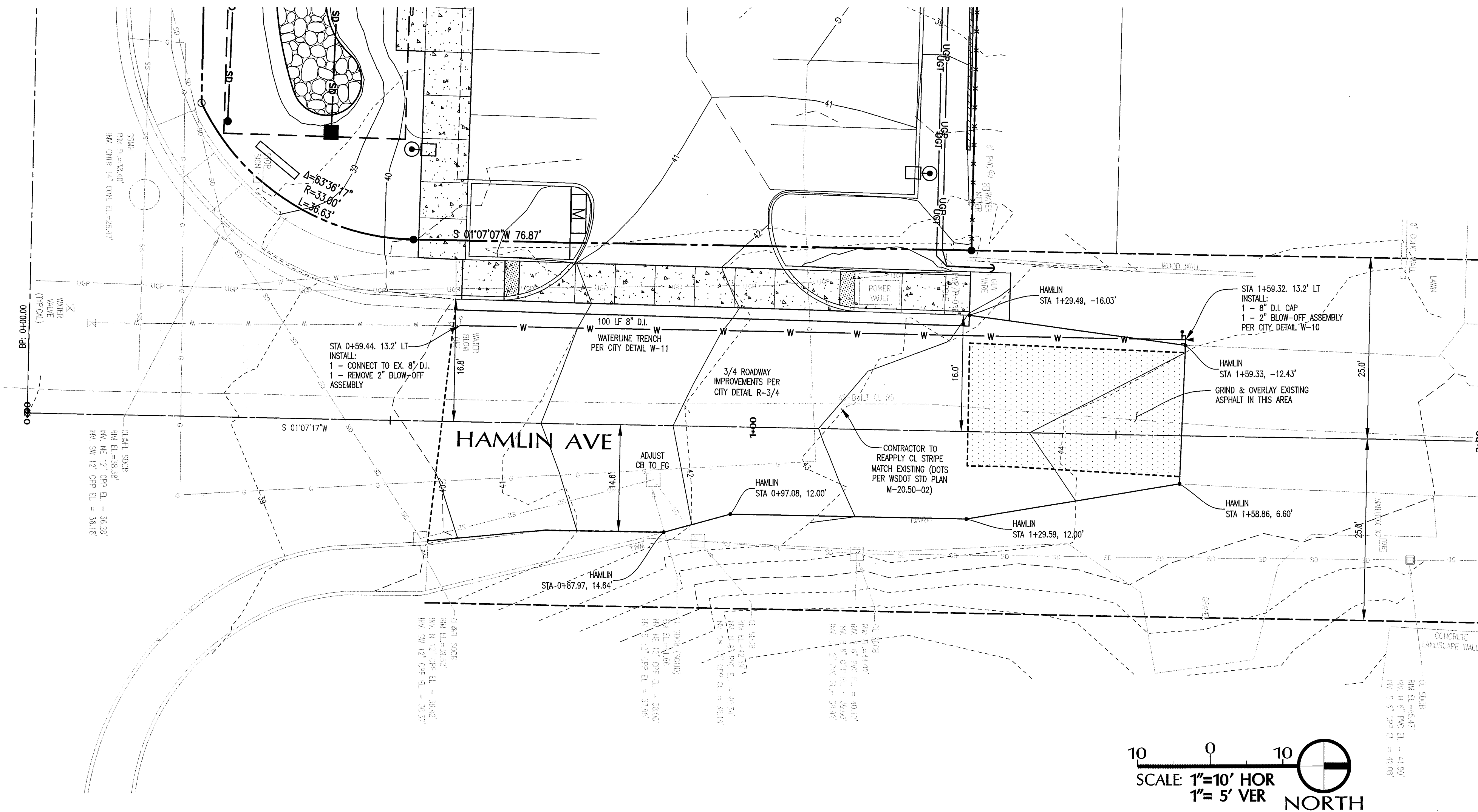
P.SEVERIN

P.SEVERIN

**WHATCOM PHYSICAL THERAPY
FOR
CARLETTI ARCHITECTS**

JOB NO.
12076
DRAWING NAME
12076PLN-ASB.dwg
SHEET
4 OF 7

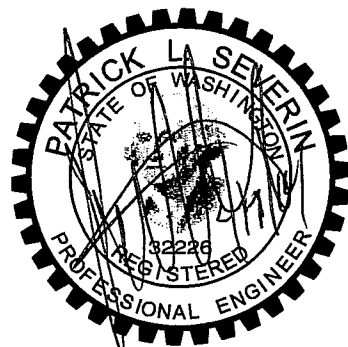
IN A PORTION OF SE 1/4, SECTION 19, TOWNSHIP 39 N., RANGE 2 E., W.M.



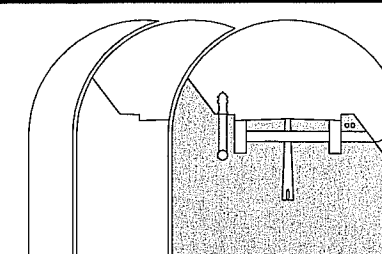
APPROVED
APR 25 2014
BY *[Signature]* P.E.
CITY OF FERNDALE

CONSTRUCTION RECORD DRAWING

CONSTRUCTION RECORD NOTE:
THESE DRAWINGS ARE PREPARED USING A COMBINATION OF CONTRACTOR PROVIDED REDLINES AND A CONSTRUCTION RECORD SURVEY PERFORMED BY NORTHWEST SURVEYING & GPS IN APRIL 2014. THE CONSTRUCTION RECORDS OF SAID DRAWINGS WERE PERFORMED BY SOUND DEVELOPMENT GROUP 04.11.14.
CONSTRUCTION RECORD LEGEND:
102.02 - INDICATES CONSTRUCTED AS DESIGNED
402.02 - INDICATES CONSTRUCTION RECORD



CALL 48 HOURS BEFORE YOU DIG 1-800-424-5555	1	04.29.13	REVISED PER CITY COMMENTS	PLAU	PSEVERIN
	2	06.03.13	REVISED PER CITY COMMENTS	PLAU	PSEVERIN
	3	04.11.14	CONSTRUCTION RECORD DRAWINGS	PLAU	PSEVERIN
	4	04.21.14	REVISED CONSTRUCTION RECORD DRAWINGS PER CITY	PLAU	PSEVERIN



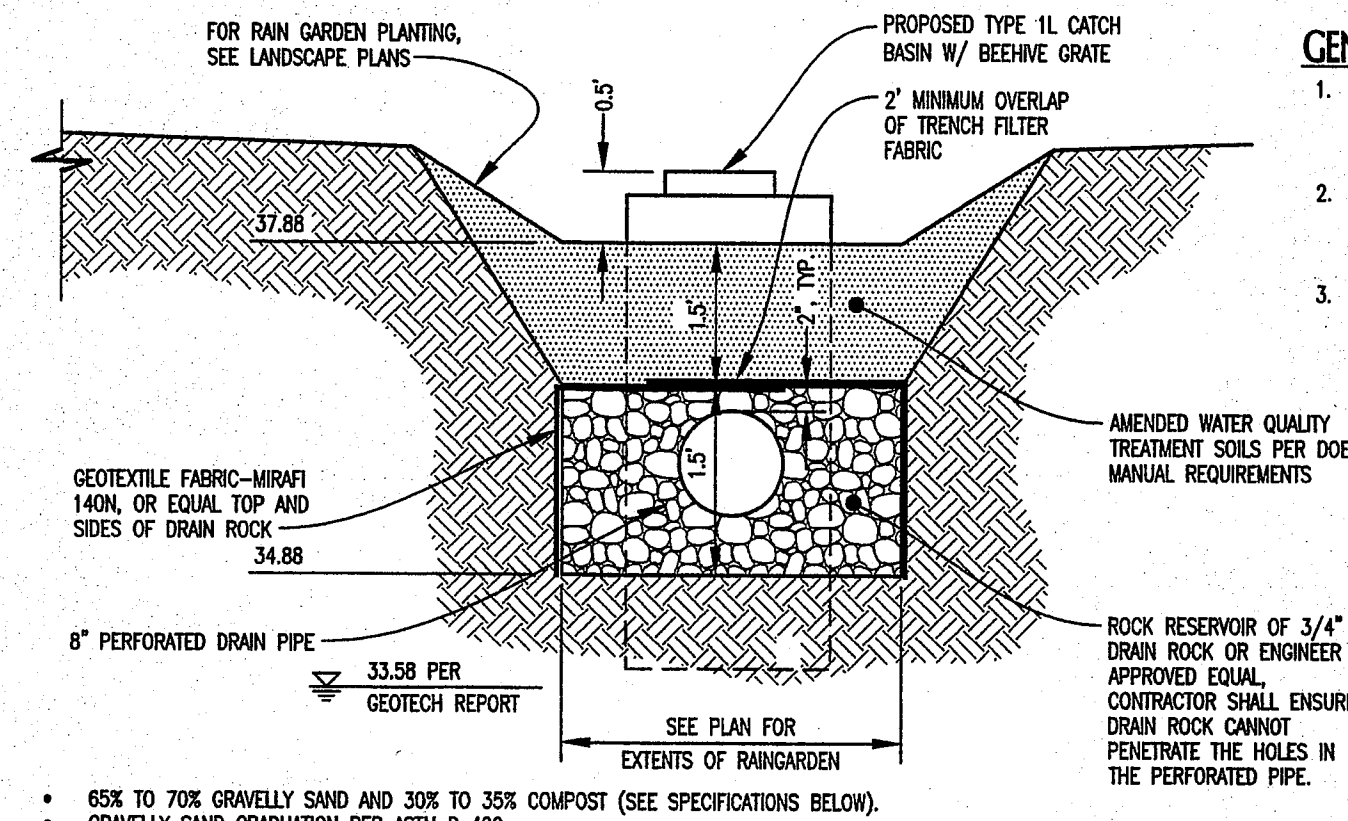
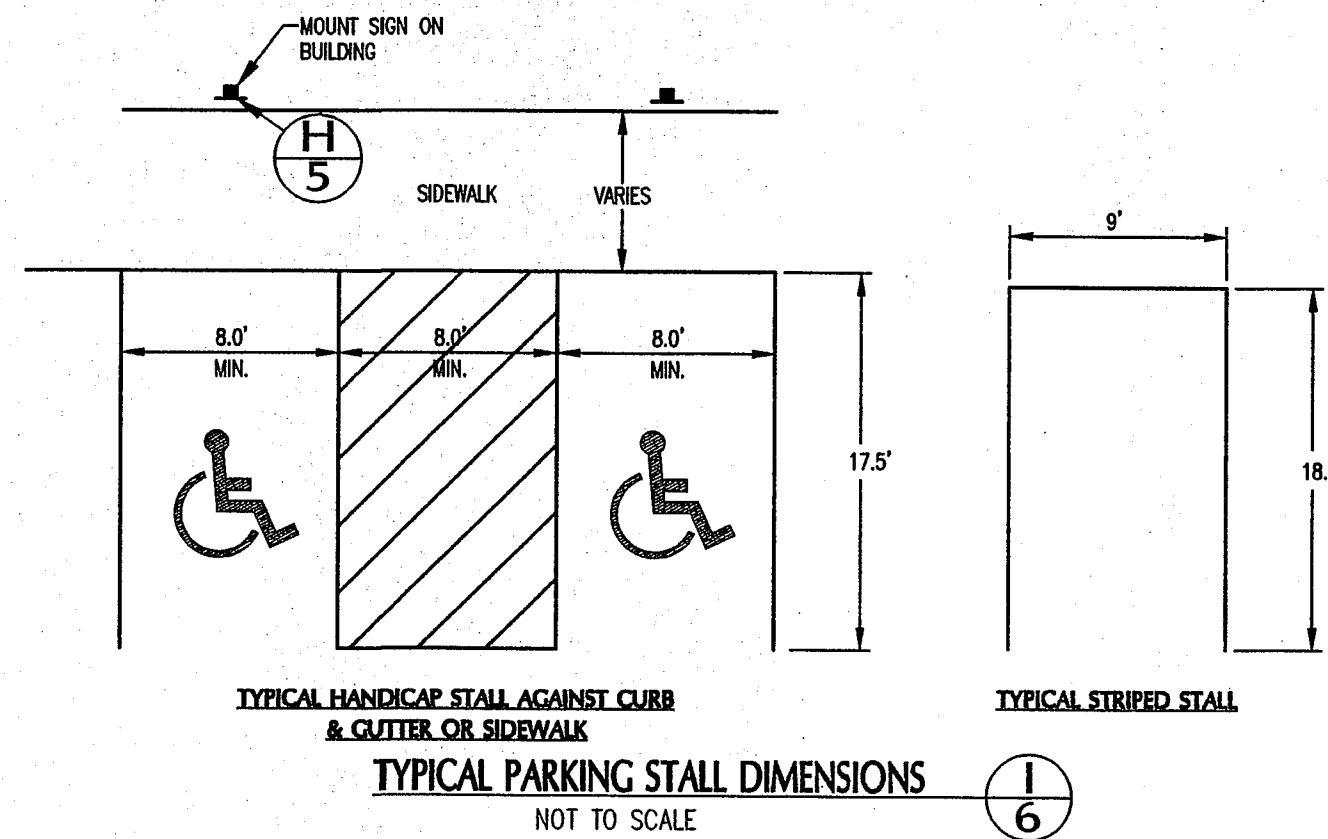
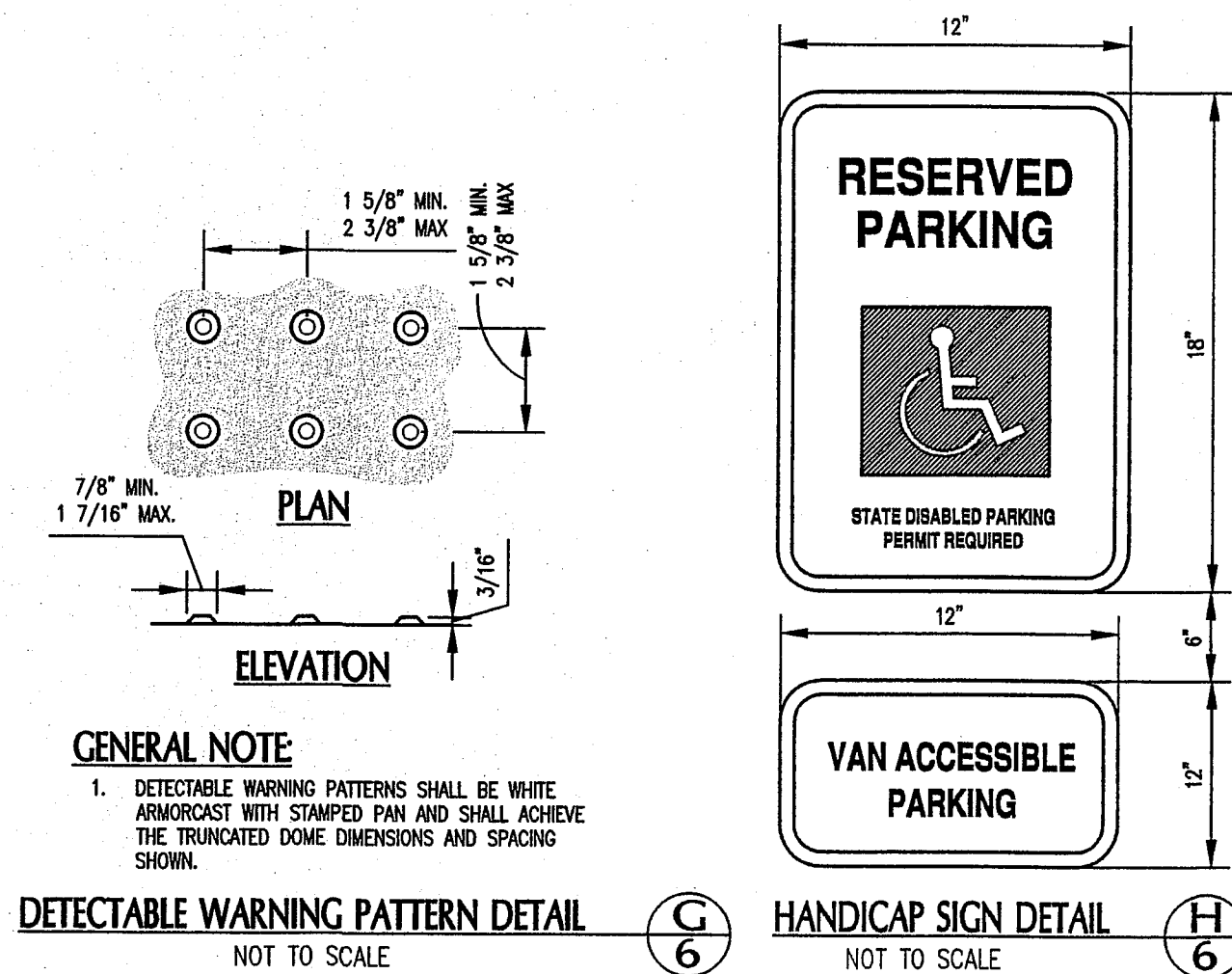
Sound Development Group
ENGINEERING, SURVEYING & LAND DEVELOPMENT SERVICES
P.O. Box 1705 • 1111 Cleveland Avenue, Suite 202
Mount Vernon, WA 98273
Tel: 360-404-2010 Fax: 360-404-2013

SHEET DESCRIPTION
**PROPOSED HAMLIN AVENUE
PLAN & PROFILE**

SCALE: H: 1" = 10' V: 1" = 5'
DRAWN BY: PLAU
DESIGNED BY: PSEVERIN
CHECKED BY: PSEVERIN
DATE: FEBRUARY 2012

PROJECT: **WHATCOM PHYSICAL THERAPY
FOR
CARLETTI ARCHITECTS**
IN A PORTION OF SE 1/4, SECTION 19, TOWNSHIP 39 N., RANGE 2 E., W.M.
FERNDAL, WASHINGTON

JOB NO. 12076
DRAWING NAME 12076/PLN-ASB.dwg
SHEET 5 OF 7



GENERAL NOTES

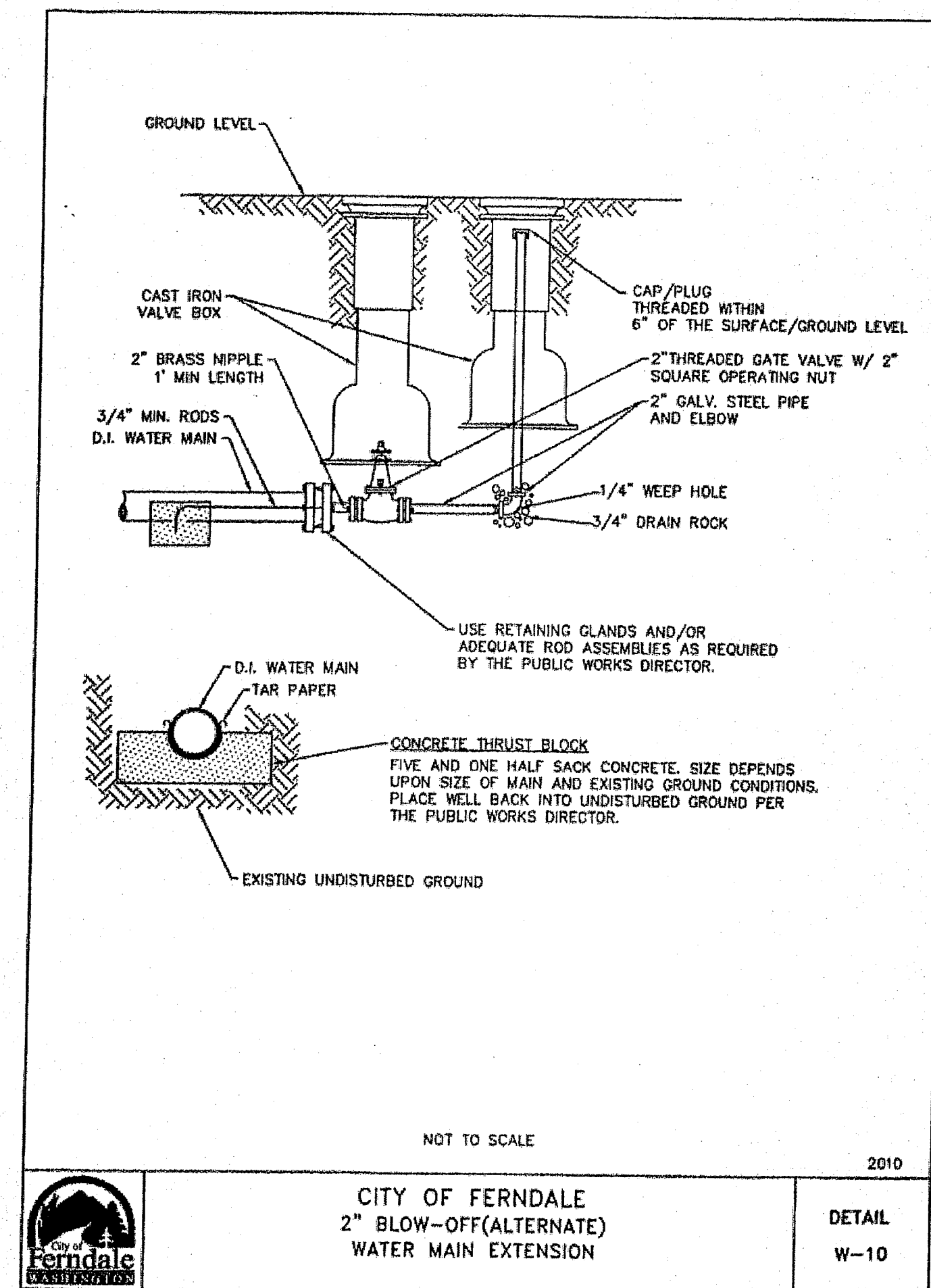
1. GEOTECH TO VERIFY WASHED ROCK INFILTRATION BED IS IN CONTACT WITH THE "SANDY TERRACE SOIL" AS SPECIFIED IN THE GEOTECHNICAL REPORT.
2. ENGINEER TO VERIFY THE RAIN GARDEN WAS CONSTRUCTED PER PLANS. CONTRACTOR TO COORDINATE WITH ENGINEER FOR FIELD INSPECTION.
3. AT COMPLETION OF THE PROJECT THE OWNER IS RESPONSIBLE TO RECORD A COVENANT (PER CITY OF FERNDALE REQUIREMENTS) LIMITING ACTIVITIES IN RAIN GARDEN AREA.

- 65% TO 70% GRAVELLY SAND AND 30% TO 35% COMPOST (SEE SPECIFICATIONS BELOW).
 - GRAVELLY SAND GRADUATION PER ASTM D 422:
- | SEIVE SIZE | PERCENT PASSING |
|------------|-----------------|
| 2-INCH | 100 |
| 3/4-INCH | 70-100 |
| 1/4-INCH | 50-80 |
| US NO. 40 | 15-40 |
| US NO. 200 | 0-5 |
- THE SOIL MIXTURE SHOULD BE UNIFORM, FREE OF STONES, STUMPS, ROOTS, OR OTHER SIMILAR OBJECTS LARGER THAN 2 INCHES.
 - ON-SITE SOIL MIXING OR PLACEMENT NOT ALLOWED IF SOIL IS SATURATED OR SUBJECT TO WATER WITHIN 48 HOURS.
 - COVER AND STORE SOIL ACCORDINGLY TO PREVENT WETTING OR SATURATION.
 - TEST SOIL FOR FERTILITY AND MICRONUTRIENTS AND, IF NECESSARY, AMEND MIXTURE TO CREATE OPTIMUM CONDITIONS FOR PLANT ESTABLISHMENT AND EARLY GROWTH AT RATES RECOMMENDED BY AN INDEPENDENT LABORATORY SOIL TEST.
 - PLACE SOIL IN THREE LIFTS NOT EXCEEDING 6 INCHES.

COMPOST REQUIREMENTS:

- C/N RATIO: 25 TO 35
 - MATERIAL MUST MEET THE DEFINITION FOR "COMPOSTED MATERIALS" IN WAC 173-350 SECTION 220. THIS CODE IS AVAILABLE ONLINE AT [HTTP://WWW.ECY.WA.GOV/PROGRAMS/SWFA/FACILITIES/350.HTML](http://www.ecy.wa.gov/programs/swfa/facilities/350.html)
 - ORGANIC MATTER CONTENT BETWEEN 35 AND 65 PERCENT AS DETERMINED BY LOSS OF IGNITION TEST METHOD (ASTM D 2974).
 - CARBON/NITROGEN RATIO BETWEEN 20:1 AND 35:1 (A C/N RATIO OF 35:1 IS PREFERRED FOR NATIVE PLANTINGS).
 - MAXIMUM ELECTRICAL CONDUCTIVITY OF 3 OHMS/CM.
 - MOISTURE CONTENT RANGE BETWEEN 35 AND 50 PERCENT.
 - NO VIABLE WEED SEEDS.
 - MANUFACTURED INERT MATERIAL (PLASTIC, CONCRETE, CERAMICS, ETC.) SHOULD BE LESS THAN 1 PERCENT ON A DRY WEIGHT OR VOLUME BASIS.
 - METALS SHOULD NOT BE IN EXCESS OF LIMITS IN THE FOLLOWING TABLE:
- | METAL | LIMIT |
|------------|-----------|
| ARSENIC | < 20 PPM |
| CADMIUM | < 10 PPM |
| COPPER | < 750 PPM |
| LEAD | < 150 PPM |
| MERCURY | < 8 PPM |
| MOLYBDENUM | < 9 PPM |
| NICKEL | < 210 PPM |
| SELENIUM I | < 18 PPM |

NOTE
INFILTRATION RATE PER LID IS 2.0 IN/HR. TO BE VERIFIED BY GEOTECHNICAL ENGINEER PRIOR TO SOIL INSTALLATION.



CONSTRUCTION RECORD DRAWING

CONSTRUCTION RECORD NOTE
THESE DRAWINGS ARE PREPARED USING A COMBINATION OF CONTRACTOR PROVIDED REDLINES AND A CONSTRUCTION RECORD SURVEY PERFORMED BY NORTHWEST SURVEYING & GPS IN APRIL 2014. THE CONSTRUCTION RECORDS OF SAID DRAWINGS WERE PERFORMED BY SOUND DEVELOPMENT GROUP 04.11.14.

CONSTRUCTION RECORD LEGEND

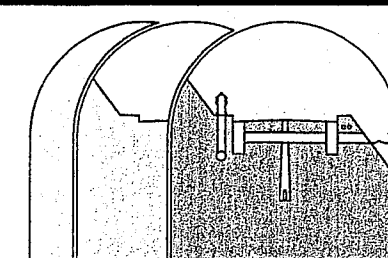
102.02	-INDICATES CONSTRUCTED AS DESIGNED
102.02	-INDICATES CONSTRUCTION RECORD

APPROVED
APR 25 2014
BY *[Signature]* P.E.
CITY OF FERNDALE



CALL 48 HOURS
BEFORE YOU DIG
1-800-424-5555

NO.	DATE	REVISIONS	BY	APPROVED
1	04.29.13	REVISED PER CITY COMMENTS	PLAU P. SEVERIN	
2	06.03.13	REVISED PER CITY COMMENTS	PLAU P. SEVERIN	
3	04.11.14	CONSTRUCTION RECORD DRAWINGS	PLAU P. SEVERIN	
4	04.21.14	REVISED CONSTRUCTION RECORD DRAWINGS PER CITY	PLAU P. SEVERIN	



Sound Development Group
ENGINEERING, SURVEYING & LAND DEVELOPMENT SERVICES
P.O. Box 1705 • 1111 Cleveland Avenue, Suite 202
Mount Vernon, WA 98273
Tel: 360-404-2010 Fax: 360-404-2013

SHEET DESCRIPTION

DETAILS

SCALE
DRAWN BY:
DESIGNED BY:
CHECKED BY:
FIELD BOOK/PAGE
DATE

AS NOTED
PLAU
P. SEVERIN
P. SEVERIN

PROJECT

WHATCOM PHYSICAL THERAPY
FOR
CARLETTI ARCHITECTS
IN A PORTION OF SE 1/4, SECTION 19, TOWNSHIP 39 N., RANGE 2 E, W.M. FERNDALE, WASHINGTON

JOB NO.
12076
DRAWING NAME
12076PLN-ASB.dwg
SHEET
6 OF 7

GENERAL CONSTRUCTION NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE 2012 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AS PREPARED BY WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND THE AMERICAN PUBLIC WORKS ASSOCIATION (WSOT/APWA), HEREIN REFERRED TO AS THE "STANDARD SPECIFICATIONS". REFERENCES WILL BE MADE TO THE STANDARD SPECIFICATIONS MANUAL AND THE STANDARD PLANS BOOK.
- EXISTING UTILITIES HAVE BEEN TAKEN FROM AVAILABLE FIELD AND OFFICE RECORDS. THE CONTRACTOR IS RESPONSIBLE FOR UTILIZING THE ONE-CALL UTILITY LOCATE SERVICE, 1-800-424-5555, A MINIMUM OF TWO WORKING DAYS PRIOR TO ANY CONSTRUCTION. DAMAGES TO THE EXISTING UTILITIES RESULTING FROM THIS CONSTRUCTION SHALL BE REPAIRED BY AND AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL VERIFY ANY POTENTIAL UTILITY CONFLICTS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL MAKE DAILY EFFORTS TO KEEP THE SITE IN A NEAT AND ORDERLY CONDITION TO THE SATISFACTION OF THE OWNER, ENGINEER, AND THE CITY OF FERNDALE ENGINEERING DEPARTMENT. IF CONSTRUCTION OCCURS DURING RAINY WEATHER CONDITIONS, THEREBY CAUSING DEBRIS TO BE TRACKED ONTO THE EXISTING ASPHALT, THE CONTRACTOR SHALL CONSTRUCT A QUARRY SPALL ROADWAY 20-FEET WIDE BY 100-FEET LONG MINIMUM. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGES TO EXISTING IMPROVEMENTS RESULTING FROM THIS CONSTRUCTION.
- DURING ALL PHASES OF CONSTRUCTION, THE CONTRACTOR SHALL SWEEP AND REMOVE ALL DEBRIS TRACKED ONTO THE EXISTING ROADS. FAILURE TO KEEP ROAD FREE FROM DEBRIS OFF EXISTING ROADWAY MAY CAUSE WORK STOPPAGE. THE CONTRACTOR SHALL ALSO WATER THE SITE (IF REQUIRED) TO REDUCE CONSTRUCTION DUST.
- AT ALL TIMES, TRAFFIC LANES SHALL BE MAINTAINED ON EXISTING ROADS. TEMPORARY AND PARTIAL ROAD CLOSURE SHALL BE APPROVED BY THE CITY OF FERNDALE ENGINEERING, FIRE, AND POLICE DEPARTMENTS PRIOR TO CONSTRUCTION. DURING CONSTRUCTION WITHIN THE RIGHT-OF-WAYS, THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT FOR TRAFFIC CONTROL AND CONSTRUCTION WARNING/CONTROL SIGNS.
- THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS CONCERNING DISPOSAL OF MATERIALS. ALL ASPHALT, CONCRETES, BRICKS, AND STRUCTURES REMOVED FROM THIS SITE SHALL BE DISPOSED OF IN AN APPROVED SITE OBTAINED BY THE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND APPLYING FOR ALL PERMITS ASSOCIATED WITH THIS CONSTRUCTION, NOT OBTAINED BY THE OWNER AND/OR ENGINEER.
- THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED PRIOR TO CONSTRUCTION IF ANY DISCREPANCY IN PLANS AND EXISTING CONDITIONS IS DISCOVERED.
- THE CONTRACTOR SHALL STOCKPILE CLEAN, NATIVE TOPSOIL MATERIALS, FREE OF SOO AND DEBRIS LARGER THAN TWO INCHES, TO BE USED AS FILL IN THE PROPOSED LANDSCAPE AREAS. THE CONTRACTOR SHALL STOCKPILE EXCESS NATIVE TOPSOIL MATERIAL ON THE SITE AS DIRECTED BY THE OWNER. UNSUITABLE NATIVE MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR AT AN APPROVED DUMPSITE RETAINED BY THE CONTRACTOR. DEBRIS AND STRUCTURES SHALL BE REMOVED FROM SITE AND DISPOSED AT AN APPROVED DISPOSAL SITE RETAINED BY THE CONTRACTOR.
- ALL PORTIONS OF THE SITE UNDER THE PROPOSED ASPHALT SHALL BE EXCAVATED TO EXPOSE A NON-ORGANIC MATERIAL SUITABLE FOR CONSTRUCTION. THE SUBGRADE SHALL BE PREPARED CONFORMING TO SECTION 2-06.3(1), AND COMPACTED TO A MINIMUM OF 95% MAXIMUM DENSITY WITH A MINIMUM TEN-TON SELF-PROPELLED VIBRATORY ROLLER. ANY AREAS THAT INDICATE PUMPING, UNSTABLE, OR YIELDING SOIL CONDITIONS SHALL BE OVER EXCAVATED AND REPLACED WITH TWO INCH TO FOUR- INCH QUARRY SPALLS. STOCKPILED MATERIAL SHALL BE PROTECTED FROM OVER- SATURATION BY RAINFALL OR POUDED WATER. FINAL GRADED CONDITIONS SHALL BE PAVED TO REMOVE ALL DEBRIS LARGER THAN ONE-INCH FROM THE SURFACE.
- ORGANIC MATERIAL AND NON SUITABLE NATIVE MATERIAL DISCOVERED DURING SUBGRADE EXCAVATION AND SITE PREPARATION SHALL BE ENTIRELY REMOVED AND DISPOSED OF BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- DURING PERIODS OF RAINFALL, THE CONTRACTOR SHALL PREVENT WATER FROM STANDING ON THE SUBGRADE OR ON THE PREPARED GRAVEL SUBGRADE. THE CONTRACTOR IS RESPONSIBLE FOR SUBGRADE PROTECTION, REPAIR AND REPLACEMENT OF SUBGRADE MATERIALS SHALL BE PAID FOR BY AND AT THE CONTRACTOR'S EXPENSE. STORM RUNOFF SHALL BE SYSTEM OR ON SITE LOCATION THAT WILL NOT IMPACT THE NEIGHBORING PROPERTIES. THIS PROJECT, DOWNSTREAM CONVEYANCE SYSTEM. THE CONTRACTOR IS REQUIRED TO PROVIDE TEMPORARY DITCHING AND PUMPS TO REMOVE ALL STANDING WATER FROM THE WORK AREA.
- AGGREGATE FOR GRAVEL BORROW SHALL COMPLY WITH SECTION 9-03.14 OF THE 2012 STANDARD SPECIFICATIONS. GRAVEL BORROW SHALL CONSIST OF WELL- GRADED SAND AND GRAVEL CONFORMING TO THE REQUIRED SPECIFICATIONS. EACH LIFT SHALL BE MECHANICALLY COMPACTED TO A MINIMUM DENSITY AS DETERMINED BY ASTM D- 1557 TESTING PROCEDURE. PLACEMENT AND GRADING OF COMPACTED CRUSHED TOP COURSE MATERIAL WITHIN THE ASPHALT AREAS SHALL HAVE A TOLERANCE OF PLUS OR MINUS ONE-HALF INCH FROM THE DESIGNATED TOP OF CRUSHED SURFACING TOP COURSE. THE CONTRACTOR SHALL PROVIDE GRADATION AND DEGRADATION TEST RESULTS TO THE ENGINEER FOR APPROVAL. OF SITE MATERIAL.

- ASPHALT SECTION
- 2 1/2" HOT MIX ASPHALT
- 2" CRUSHED SURFACING TOP COURSE
- 12" GRAVEL BORROW (OR ENGINEER APPROVED EQUIVA)

THE FINAL GRADING OF CRUSHED SURFACING TOP COURSE WILL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO ASPHALT PAVING. ALL ABUTTING EDGES OF EXISTING ASPHALT SHALL BE SAW CUT FULL DEPTH TO PROVIDE A NEAT STABLE EDGE FOR THE NEW ASPHALT. ALL SAW CUT FACES SHALL BE TACK COATED AS WELL AS ALL STRUCTURES THAT ARE NOT MEET THE REQUIRED SPECIFICATIONS SHALL BE RE-COMPACTED AND RETESTED AT NO ADDITIONAL COST TO THE OWNER.

- CRUSHED SURFACING TOP COURSE SHALL CONFORM TO SECTION 9-03.9(3) OF THE 2012 STANDARD SPECIFICATIONS. EACH LIFT SHALL BE MECHANICALLY COMPACTED TO A MINIMUM DENSITY AS DETERMINED BY ASTM D- 1557 TESTING PROCEDURE. PLACEMENT AND GRADING OF COMPACTED CRUSHED TOP COURSE MATERIAL WITHIN THE ASPHALT AREAS SHALL HAVE A TOLERANCE OF PLUS OR MINUS ONE-HALF INCH FROM THE DESIGNATED TOP OF CRUSHED SURFACING TOP COURSE. THE CONTRACTOR SHALL PROVIDE GRADATION AND DEGRADATION TEST RESULTS TO THE ENGINEER FOR APPROVAL. OF SITE MATERIAL.
- ASPHALT CONCRETE PAVEMENT SHALL CONFORM TO SECTION 5-04 OF THE 2012 STANDARD SPECIFICATIONS.

STORM SEWER

- THE FOLLOWING MATERIALS ARE ACCEPTABLE FOR THE STORM SEWERS IDENTIFIED ON THE PLANS:

- STORM SYSTEM:
- PVC PIPE (POLYVINYL CHLORIDE) SHALL CONFORM TO SECTION 9-05.12(1) MEETING THE REQUIREMENTS OF ASTM D3034,SDR35. PVC PIPE 12" IN DIAMETER AND UNDER SHALL CONFORM TO SECTION 9-05.12(1) OF THE STANDARD SPECIFICATIONS MEETING THE REQUIREMENTS OF ASTM D 3034 TYPE S.
 - CORRUGATED POLYETHYLENE PIPE (CPP) SHALL HAVE A SMOOTH BARREL INTERIOR, CORRUGATED EXTERIOR, CONFORMING TO SECTION 9-05.20 MEETING THE REQUIREMENTS OF ASTM M2594.
 - PERFORATED CORRUGATED POLYETHYLENE UNDERDRIN (CPP) SHALL HAVE A SMOOTH INTERIOR, CORRUGATED EXTERIOR CONFORMING TO SECTION 9-05.2(7) FOR UP TO 10-INCH. PERFORATION SHALL BE OF THE SLOTTED TYPE WHICH ARE SIZED SUCH THAT THE SMALLEST ROCK DIAMETER IS LARGER THAN THE PERFORATION.
- ALL PIPES SHALL HAVE GASKETED JOINTS.

- INFILTRATION TRENCH MATERIAL SHALL CONSIST OF WASHED DRAIN ROCK. MATERIAL DRAIN ROCK SHALL BE SIZED SUCH THAT THE MINIMUM SIZE OF ROCK SHALL BE LARGER THAT THE PERFORATIONS IN THE PERFORATED PIPE, BUT SHALL NOT BE SMALLER THAN 1/2" IN DIAMETER.
- STORM CATCH BASINS AS INDICATED ON THE PLANS SHALL CONFORM TO: TYPE 1 CATCH BASIN PER WSOT STD. PLAN B-1 TYPE 1L CATCH BASIN PER WSOT STD. PLAN B-1A TYPE II CATCH BASIN PER WSOT STD. PLAN B-1E
- ALL PIPE KNOCKOUTS SHALL BE NEATLY MUDDED INSIDE AND OUTSIDE OF THE STRUCTURE FLUSH WITH THE STRUCTURE WALL. ALL PVC PIPE CONNECTIONS SHALL BE MADE TO STRUCTURES USING PVC SAND COLLARS.
- UPON INSTALLATION OF ALL PIPES TO STORM STRUCTURES, THE KNOCKOUT AREA SHALL BE NEATLY MUDDED INSIDE AND OUT OF THE CATCH BASIN USING A NON-SHOWN CONCRETE GROUT.
- UPON COMPLETION OF ALL CRUSHED TOP COURSE GRADING AND PREPARATION FOR ASPHALT PAVING, ALL CATCH BASIN STRUCTURES SHALL BE CORRECTLY ADJUSTED SO AS TO BE FLUSH WITH THE PROPOSED FINISH GRADE.
- CLEANOUTS SHALL BE INSTALLED TO MATCH FINISH GRADE WITHIN CONCRETE AND STALL AREAS.

SANITARY SEWER - GRAVITY

- THE LOCATION OF THE SANITARY SEWER SERVICE IS INDICATED ON THE PLANS. SEWER SERVICE SHALL BE INSTALLED AT THE SLOPE AND LOCATION AS INDICATED ON THE CIVIL PLANS.
- SEWER PIPE SHALL BE PVC CONFORMING TO ASTM D 3034, SDR 35 AND SECTION 9-05.12 OF THE 2012 STANDARD SPECIFICATIONS. JOINTS SHALL BE BELL AND SPIGOT WITH A RUBBER GASKET. MATERIALS AND CONSTRUCTION SHALL CONFORM TO SECTION 7-17 WSOT/APWA.
- CLEANOUTS SHALL BE INSTALLED TO MATCH FINISH GRADE WITHIN CONCRETE AND ASPHALT AREAS.
- AIR PRESSURE TESTING, IF REQUIRED BY THE CITY OF FERNDALE PUBLIC WORKS, SHALL BE PERFORMED BY THE CONTRACTOR ON ALL PROPOSED SEWER LINES. THE PRESSURE TEST SHALL BE PERFORMED IN THE PRESENCE OF THE FERNDALE SEWER DEPARTMENT, AT FIVE PSI FOR TEN MINUTES WITH NO SIGNIFICANT GAUGE DROP. ADEQUATE TIME (TWO MINUTES) MUST BE ELAPSE BEFORE THE PRESSURE TEST IS PERFORMED TO ALLOW THE PRESSURE TO STABILIZE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VIDEO TAPING, IF REQUIRED BY THE CITY OF FERNDALE PUBLIC WORKS. THE SEWER SERVICES AND PROVIDING A COPY OF THE TAPE TO THE CITY OF FERNDALE PUBLIC WORKS FOR THEIR REVIEW. THE SEWER LINE WILL NOT BE APPROVED UNTIL THE CITY OF FERNDALE HAS REVIEWED THE VIDEO TAPE AND SATISFACTORY PRESSURE TESTING HAS BEEN WITNESSED BY THE CITY OF FERNDALE PUBLIC WORKS AND THE ENGINEER. ALL SANITARY SEWER TESTING COSTS SHALL BE INCLUDED IN THE UNIT PRICE FOR SEWER PIPE.
- SANITARY SEWER MANHOLES TO BE GROUTED INSIDE AND OUT.

UTILITY TRENCHES

- ALL TRENCHES SHALL BE EXCAVATED TO PROVIDE A MINIMUM WIDTH OF EIGHT INCHES ON EITHER SIDE OF THE PROPOSED UTILITY AS INDICATED ON THE UTILITY TRENCH DETAIL WITHIN THE CIVIL DRAWINGS. ALL SEWER PIPES SHALL BE BEDDED WITH FEA GRAVEL. STORM SEWER TRENCHES SHALL BE BEDDED WITH SAND, BUCKSHOT OR GRAVEL WITH 100% PASSING THE 1/4-INCH SCREEN. BEDDING MATERIAL SHALL ALSO BE USED TO COVER THE PIPE TO A MINIMUM OF SIX INCHES ABOVE THE TOP OF THE PIPE. THE CONTRACTOR SHALL CAREFULLY TAMP AND HAND COMPACT BEDDING AND COVER MATERIAL TO ASSURE ADEQUATE SUPPORT UNDER THE BARREL OF THE PIPE.
- TRENCH BACKFILL MATERIAL SHALL CONSIST OF COMPACTED GRAVEL BORROW PLACED IN LOOSE LIFTS NOT EXCEEDING EIGHT INCHES AND COMPACTED TO A MINIMUM OF 95% MAXIMUM DENSITY AS DETERMINED BY ASTM D 1557 TESTING PROCEDURE. THE INITIAL LIFT OF GRAVEL TRENCH BACKFILL OVER THE PIPE SHALL NOT EXCEED 18 INCHES IN ORDER TO PROTECT THE PIPE. GRAVEL BORROW SHALL BE USED AS TRENCH BACKFILL IN ALL TRENCHES UNDER PROPOSED ASPHALT, CONCRETE, CONSTRUCTION TRAFFIC AREAS, AND WITHIN FIVE FEET BEYOND IMPERVIOUS SURFACES. NATIVE SOIL MATERIALS MAY BE USED AS TRENCH BACKFILL ONLY AT LOCATIONS BEYOND THOSE REQUIRING GRAVEL STRUCTURAL FILL. THE USE OF NATIVE SOIL MATERIALS AS TRENCH BACKFILL WITHIN THOSE AREAS REQUIRING GRAVEL MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER AND OWNER PRIOR TO THE WORK BEING PERFORMED. THE USE OF NATIVE SOILS WITHIN TRENCHES REQUIRING GRAVEL WILL ONLY BE ACCEPTED WITH THE APPROVAL OF THE GEOTECHNICAL ENGINEER, AND THE NATIVE SOILS MUST BE COMPACTED TO A MINIMUM OF 95 PERCENT MAXIMUM DRY DENSITY. THE USE OF NATIVE SOILS AS TRENCH BACKFILL SHALL NOT PRECLUDE THE MINIMUM ASPHALT SECTION REQUIREMENTS AS IDENTIFIED ON THE CIVIL PLANS. NO NATIVE MATERIAL MAY BE USED AS TRENCH BACKFILL IN THE PUBLIC RIGHT OF WAY.
- THE BOTTOM OF UTILITY TRENCHES SHALL HAVE A STABLE NON-YIELDING SOIL CONDITION SUITABLE FOR SUPPORTING THE DESIGN LOADS. WHERE THE BOTTOM OF TRENCH CONDITIONS EXHIBIT PUMPY YIELDING CONDITIONS, THE BOTTOM OF TRENCH SHALL BE OVER EXCAVATED TO EXPOSE FIRM STABLE MATERIAL, AND BACKFILLED WITH TWO INCH TO FOUR INCH SHOT ROCK MATERIAL. WHERE OVER EXCAVATING EXPOSES SIMILAR UNSTABLE CONDITIONS, TRENCH OVER EXCAVATION SHALL BE DONE TO TWO FEET BELOW THE PIPE BEDDING MATERIAL AND BACKFILLED WITH TWO INCH TO FOUR INCH SHOT ROCK MATERIAL.

STRIPING & SIGNAGE

- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING SLEEVES WITHIN THE PUBLIC CONCRETE SIDEWALKS AT LOCATIONS WHERE SIGNS ARE TO BE RELOCATED. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF MOUNT VERNON TO ESTABLISH THE PROPER SETBACK FROM THE FACE OF CURB TO THE CENTERLINE OF THE SIGN POST AND THE TYPE OF SLEEVE OR BASE THAT IS REQUIRED TO ACCOMMODATE THE CITY'S SIGNS.
- ALL STRIPING SHALL CONFORM TO WSOT SECTION 8-22 AND THE CITY OF FERNDALE'S REQUIREMENTS.
- PARKING SIGNS SHALL BE INSTALLED FOR THE HANDICAP ACCESSIBLE STALLS, AND ARE LOCATION AT THE HEAD END OF EACH STALL.
- PAINT STRIPINGS SHALL BE APPLIED FOR ROAD MARKINGS. PAINT APPLICATION SHALL CONFORM TO SECTION 8-22.3(3) OF THE 2010 STANDARD SPECIFICATIONS. STANDARD STALLS SHALL BE STRIPED WITH FOUR-INCH WIDE WHITE PAINT. NO PARKING/ACCESS AREAS SHALL BE STRIPED WITH A 4 INCH WIDE WHITE PAINT AT A 45 DEGREE ANGLE TO THE PROPOSED STRIPING AT ONE FOOT ON CENTER AS INDICATED. CROSSWALK MARKINGS SHALL BE HOT APPLIED THERMOPLASTICS, REFLECTORIZED, IN ACCORDANCE WITH SECTION 8-22 OF THE 2010 STANDARD SPECIFICATIONS (CHAVES 3-18).
- SIGNS MOUNTED SHALL BE INSTALLED AT THE LOCATIONS INDICATED ON THE PLAN. SIGNS SHALL BE ORIENTED ON TWO INCH OUTSIDE DIAMETER GALVANIZED STEEL POSTS. POSTS SHALL BE SET A MINIMUM OF TWO FEET INTO THE GROUND IN A CONCRETE-FILLED BASE WITH A SEVEN FEET OF CLEARANCE BETWEEN THE BOTTOM OF THE SIGN AND THE FINISHED GRADE.
- ACCESS PARKING SPACE SYMBOL SHALL BE WHITE WHEN APPLIED TO ASPHALT AND SURROUNDED BY A BLUE BACKGROUND WITH A WHITE BORDER WHEN INSTALLED ON CEMENT CONCRETE SURFACES AND SHALL CONFORM TO SECTION 8-22.1 OF THE 2010 STANDARD SPECIFICATIONS AND STANDARD PLAN M-24.80-02.

CONFLICT NOTE

ALL CONSTRUCTION WITH IN CITY RIGHT OF WAY SHALL BE IN COMPLIANCE WITH THE CITY OF FERNDALE CONSTRUCTION STANDARDS. IN THE EVENT THAT THERE IS A CONFLICT BETWEEN THE PROJECT PLANS AND SPECIFICATIONS, THE CITY OF FERNDALE CONSTRUCTION STANDARDS/NOTES SHALL BE USED.

IN A PORTION OF SE 1/4, SECTION 19, TOWNSHIP 39 N., RANGE 2 E., W.M.

CITY OF FERNDALE CONSTRUCTION STANDARDS

GENERAL REQUIREMENTS:

- ALL WORK AND MATERIALS SHALL CONFORM TO THESE PLANS AND TO THE REQUIREMENTS OF THE CURRENT EDITION OF THE "STATE OF WASHINGTON, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION" (WSOT SPECS.), THE CITY OF FERNDALE DEVELOPMENT STANDARDS (CDFS) AND THE 2005 VERSION OF THE DEPARTMENT OF ECOLOGY STORM WATER MANAGEMENT MANUAL, FOR WESTERN WASHINGTON (DCE MANUAL). IN CASE OF A CONFLICT BETWEEN PLANS, REGULATORY STANDARDS OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT WILL PREVAIL.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER CONSTRUCTION DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES. THROUGHOUT THE PERIOD OF CONSTRUCTION, CONTRACTOR SHALL COMPLY WITH THE TERMS OF ALL PERMITS.
- THE CONTRACTOR MUST HAVE A FULL SET OF CITY CONTRACT DOCUMENTS ON THE SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- CONSTRUCTION NOISE SHALL BE LIMITED TO BETWEEN 7 A.M. TO 8 P.M., MONDAY THROUGH SATURDAY.
- THE CONTRACTOR SHALL CONTACT THE UTILITIES UNDERGROUND LOCATION CENTER AT LEAST 72 HOURS PRIOR TO STARTING CONSTRUCTION. PHONE: 1-800-424-5555. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL OF THE VARIOUS UTILITY COMPANIES TO ARRANGE FOR FIELD LOCATIONS OF ALL EXISTING UTILITY FACILITIES PRIOR TO STARTING CONSTRUCTION. NO EXTRA COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR COSTS INCURRED BECAUSE OF DAMAGE DONE TO EXISTING FACILITIES BY THE CONTRACTOR'S WORK FORCE, INCLUDING COSTS FOR REPAIRS, WHICH WILL BE CONTRACTOR'S SOLE RESPONSIBILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ALL EXISTING UTILITIES AND TO NOTIFY THE ENGINEER PROMPTLY OF ANY CONFLICT BETWEEN THE APPROVED PLANS AND THE LOCATION OF ANY EXISTING UTILITIES. 6. THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE RESULTING FROM THE WORK. CONTRACTOR SHALL RESTORE ALL PRIVATE AND PUBLIC PROPERTY DISRUPTED BY THE PROJECT IMMEDIATELY AFTER CONSTRUCTION.
- THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE RESULTING FROM THE WORK. CONTRACTOR SHALL RESTORE ALL PRIVATE AND PUBLIC PROPERTY DISRUPTED BY THE PROJECT IMMEDIATELY AFTER CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE PROJECT. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY CLEARING OR GRADING. THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE ON SITE AT ALL TIMES DURING CONSTRUCTION ACTIVITIES.
- SITE CLEARING SHALL INCLUDE THE LOCATION AND REMOVAL OF ALL ABOVE GROUND AND BURIED DEBRIS AND WASTE THAT MAY BE PRESENT.
- THE CONTRACTOR SHALL OBTAIN REVOCABLE ENCROACHMENT PERMITS FROM THE CITY OF FERNDALE AND/OR WHATCOM COUNTY PRIOR TO COMMENCING WORK WITHIN THE PUBLIC RIGHTS-OF-WAY.

- THE CONTRACTOR SHALL ATTEND A PRE-CONSTRUCTION MEETING WITH REPRESENTATIVES OF THE CITY OF FERNDALE PUBLIC WORKS DEPARTMENT AND THE ENGINEER OF RECORD A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. THE CITY WILL SCHEDULE THE MEETING.

- ALL WORK AND MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE CITY OF FERNDALE PUBLIC WORKS DEPARTMENT, REPRESENTATIVES FROM THE CITY OF FERNDALE PUBLIC WORKS DEPARTMENT MUST INSPECT ALL WORK IDENTIFIED ON THE PLANS, BOTH PUBLIC AND PRIVATE. THE CONTRACTOR SHALL CALL AT LEAST 24 HOURS IN ADVANCE TO SCHEDULE INSPECTIONS AS FOLLOW:
 - PLACEMENT OF TEMPORARY EROSION CONTROL MEASURES.
 - CONSTRUCTION OF STORMWATER MANAGEMENT FACILITIES.
 - PLACEMENT OF WATER MAIN AND BACKFILLING OF WATER MAIN TRENCH WITHIN ROAD RIGHTS-OF-WAY OR IN WATERLINE EASEMENT TO BE DEDICATED TO THE CITY OF FERNDALE.
 - PLACEMENT AND BACKFILLING OF UNDERGROUND UTILITIES, STORM SEWER AND SANITARY SEWER WITHIN ROAD RIGHTS-OF-WAY, IN EASEMENTS TO BE DEDICATED TO THE CITY OF FERNDALE, OR OTHER PUBLICLY SHARED FACILITIES.
 - GRADING OF PUBLIC OR PRIVATE ROADWAY AT:
 - COMPLETION OF EXCAVATION TO SUBGRADE.
 - COMPLETION OF BALLAST COURSE PLACEMENT.
 - COMPLETION OF CRUSHED SURFACING COURSE PLACEMENT.
 - POURING OF CURB AND GUTTER AND SIDEWALK IN PUBLIC OR PRIVATE ROADWAY.

- AS-BUILT DATA SHALL BE PROVIDED TO THE CITY OF FERNDALE UPON COMPLETION OF CONSTRUCTION AND PROVIDED IN CITY OF FERNDALE DATUM - VERTICAL (NGVD 29) AND HORIZONTAL (NAD 83/91). CONTACT THE CITY FOR MORE INFORMATION ON SUBMITTAL REQUIREMENTS.

UNDERGROUND UTILITIES CONSTRUCTION:

- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE ENGINEER OF RECORD TO ASSURE ACCURATE AND TIMELY COLLECTION OF ALL REQUIRED AS-BUILT DATA. THIS DATA MUST ACCURATELY REFLECT THE LOCATIONS OF ALL UNDERGROUND UTILITIES, BOTTOM OF PIPE ELEVATIONS, INVERT ELEVATIONS, MANHOLE LOCATIONS, WATER SERVICE TAPS, BLOW-OFF LOCATIONS AND INVERTS OF SERVICE CONNECTIONS (BOTH AT PIPE AND AT PROPERTY LINE), VERTICAL AND HORIZONTAL BENDS, SERVICE BOXES AND METERS, VALVES AND HYDRANTS. CALL THE ENGINEER OF RECORD AT LEAST 48-HOURS BEFORE BURYING UNDERGROUND PIPE TO ASSURE AND FACILITATE REQUIRED AS-BUILT SURVEY.
- THE CONSTRUCTION OF UNDERGROUND UTILITY LINES SHALL BE SUBJECT TO THE FOLLOWING CRITERIA:
 - NO MORE THAN 500 FEET OF TRENCH SHALL BE OPENED AT ONE TIME.
 - WHERE CONSISTENT WITH SAFETY AND SPACE CONSIDERATIONS, EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF DITCHES.
 - TRENCH Dewatering DEVICES SHALL DISCHARGE INTO SEDIMENT TRAPS OR SEDIMENT PONDS.
 - WHERE PRACTICAL, INSTALL GRAVITY PIPE UTILITIES PRIOR TO INSTALLATION OF OTHER UTILITIES.
- UTILITY CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF FERNDALE DEVELOPMENT STANDARDS.
- TESTING OF NEW WATER AND SANITARY SEWER MAINS SHALL NOT BE PERFORMED UNTIL ALL OTHER ADJACENT UTILITIES HAVE BEEN INSTALLED.
- OPEN CUTTING OF EXISTING ROADWAYS IS ONLY ALLOWED AS APPROVED AND NOTED ON THESE APPROVED PLANS. ANY OPEN CUT SHALL BE RESTORED IN ACCORDANCE WITH THE COF STANDARD TRENCH DETAIL.

EARTHWORK:

- THE CONTRACTOR SHALL CLEAR, GRUB AND CLEAN UP THOSE AREAS SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL RAZE, REMOVE AND DISPOSE OF ALL BUILDING AND FOUNDATIONS, STRUCTURES, FENCES AND OTHER OBSTRUCTIONS THAT LIE WHOLLY OR PARTIALLY WITHIN THE PROJECT LIMITS.
- THE CONTRACTOR SHALL REMOVE AND REPLACE ALL EXISTING UN-COMPACTED OR POORLY COMPACTED FILL SOILS WITHIN THE ROAD PRISM AT THE DIRECTION OF THE ENGINEER.
- THE CONTRACTOR SHALL EXCAVATE AND GRADE TO THE ALIGNMENT, GRADE AND CROSS-SECTIONS SHOWN IN THE PLANS OR ESTABLISHED BY THE ENGINEER.

- UNSATURABLE MATERIAL FOUND AND NOT FIT FOR USE AS A SUB-GRADE SHALL BE EXCAVATED TO THE BOUNDARIES SET BY THE ENGINEER AND REPLACED WITH A SUITABLE BACKFILL MATERIAL.

- THE ENGINEER IS REQUIRED TO CERTIFY SUBGRADE, IN WRITING, PRIOR TO PAVING.

BASE COURSES & CRUSHED SURFACING:

- GRAVEL BASES AND BALLAST MATERIAL GRADATION SHALL MEET THE CURRENT EDITION OF WSOT STANDARD SPECIFICATIONS.
- BALLAST, GRAVEL BASE AND CRUSHED SURFACING SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DRY DENSITY.
- THE GRADED AND COMPACTED SURFACE OF THE CRUSHED SURFACING TOP COURSE SHALL BE WITHIN 1/8 INCH OF FINISHED GRADE.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIAL AND COMPACTION TESTING. PRIOR TO IMPORTING OF MATERIAL FOR BASE AND CRUSHED SURFACING TOP COURSE THE CONTRACTOR SHALL PROVIDE EVIDENCE OF SATISFACTORY PASSING GRADING AND DEGRADATION TEST RESULTS TO THE ENGINEER.

STORM DRAINAGE

- THE FOLLOWING STANDARD DETAILS SHALL BE USED FOR CONSTRUCTION OF STORM DRAIN IMPROVEMENTS:

CATCH BASINS TYPE 1, 1L OR 2	WSOT STD. DETAILS B-5.20, B-5.40 OR B-10.20
"RESIDENTIAL SERVICE LINE" CATCH BASINS	COFSD ST-7
THRU-CURB INLET FRAME & GRATE	COFSD R-8
SIDEWALK DRAINS	COFSD ST-15
POSITIVE LOT DRAINS	COFSD ST-16
CHAIN LINK FENCE WITH TOP RAIL	WSOT FS-2
- STORM SEWER PIPE HAVING DIAMETERS GREATER THAN 8" SHALL BE CORRUGATED POLYETHYLENE PIPE (CPEP) OR SOLID WALL POLYVINYL CHLORIDE (PVC) PER SECTION 7-04 OF THE WSOT SPECS. ALL OTHER STORM SEWER PIPE SHALL BE PVC UNLESS OTHERWISE SPECIFIED ON PLANS.
- ALL DRAINAGE STRUCTURES, INCLUDING THOSE INSTALLED FOR A STORMWATER POND, SHALL HAVE A LOCKING GRATE OR SOLID LOCKING LID.
- ALL CATCH BASIN GRATES SHALL INCLUDE THE STAMPING "OUTFALL TO STREAM, DUMP NO POLLUTANTS".

- CONTROL DENSITY FILL SHALL BE USED IN AREAS WHERE LESS THAN 18" OF COVER IS MAINTAINED OVER THE PROPOSED STORM PIPES (PIPE IS IN ROAD BASE SECTION), AS SHOWN IN THE PLANS. DUCTILE IRON PIPE MAY BE USED FOR STORM PIPES WITH LESS THAN 18" OF COVER IF APPROVED BY THE CITY.

- COVER OVER PIPES SHALL BE MAINTAINED DURING CONSTRUCTION. DEPTH OF COVER REQUIRED SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS AND WILL VARY WITH THE VEHICLE LOADS TRAVELING OVER THE PIPE. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR DAMAGE TO PIPE DURING CONSTRUCTION ACTIVITIES.

- AT THE END OF ALL SITE CONSTRUCTION, THE CONTRACTOR SHALL CLEAN DEBRIS FROM ALL NEW AND AFFECTED CATCH BASINS AND STORMWATER CONVEYANCES. DEBRIS SHALL NOT BE ALLOWED TO ENTER STREAMS OR OFF-SITE STORMWATER SYSTEMS.

WATER:

- THE FOLLOWING STANDARD DETAILS SHALL BE USED IN CONSTRUCTING WATER SUPPLY SYSTEM IMPROVEMENTS:

PIPE BEDDING	COFSD W-11
TRENCH BACKFILL	COFSD W-11
SS MANHOLE, TYPE 1-48"	COFSD W-1
SSMH RING & COVER, TYPE 2	WSOT STD. PLAN B-30.70-03
SS CLEANOUTS	COFSD SS-5
SIDE SEWERS	COFSD SS-6, SS-8 & SS-13
- ALL WORK AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF FERNDALE DEVELOPMENT STANDARDS, SECTIONS 702 AND 705 AND THE CURRENT EDITION OF THE WSOT STANDARD SPECIFICATIONS.
- ALL WATER MAIN PIPE SHALL BE DUCTILE IRON PER SECTION 9-30.1(1) OF THE WSOT SPECS, UNLESS OTHERWISE APPROVED BY THE PUBLIC WORKS DIRECTOR.
- MATERIAL FOR FITTINGS SUCH AS CROSSSES, TEES, BENDS, REDUCERS AND SLEEVES SHALL BE DUCTILE IRON. JOINTS SHALL BE M.J., FLANGED OR PUSH-ON JOINTS AND SHALL CONFORM TO SECTION 9-30.2(1) OF THE WSOT SPECS.
- CONCRETE BLOCKING SHALL BE AS SPECIFIED IN CITY OF FERNDALE STANDARD DETAILS W-2, W-3 AND W-4, OR AS DIRECTED BY THE ENGINEER OF RECORD. BLOCKS SHALL BE INSTALLED AS SPECIFIED IN SECTION 7-09.3(21) OF THE WSOT SPECS. NO PRE-CAST BLOCKS ARE ALLOWED.
- CONNECTIONS TO EXISTING WATER MAINS - THE CONTRACTOR MUST NOTIFY THE CITY OF FERNDALE PUBLIC WORKS DIRECTOR OF A PROPOSED CONNECTION AT LEAST FOUR WORKING DAYS IN ADVANCE.
- ALL HYDROSTATIC TESTING AND DISINFECTION OF WATER MAINS SHALL CONFORM TO SECTION 7-09.3(23) AND SECTION 7-09.3(24) OF THE WSOT SPECS. HYDROSTATIC TEST PRESSURE FOR WATER MAIN ACCEPTANCE SHALL BE 250 PSI AND SHALL BE DONE ACCORDING TO CITY OF FERNDALE REQUIREMENTS. THE CITY OF FERNDALE LABORATORY SHALL CONDUCT ALL DISINFECTION AND BACTERIOLOGICAL TESTS. THE PIPE WILL NOT PASS TESTING UNLESS A ZERO BACTERIAL COUNT IS MEASURED ON TWO CONSECUTIVE TESTS, CONDUCTED 24 HOURS APART. THE CONTRACTOR SHALL CALL AT LEAST 24 HOURS IN ADVANCE TO SCHEDULE TESTING.
- BACKFILL SHALL BE GRAVEL BASE, CLASS B, IN ALL STREET RIGHTS-OF-WAY, COMPACTED TO MINIMUM 95% OPTIMUM DENSITY. IN UNIMPROVED AREAS, MINIMUM COMPACTION SHALL BE 90% OF OPTIMUM DENSITY.
- ALL PIPES SHALL HAVE A MINIMUM COVER OF 36".

- ALL VALVES SHALL BE EITHER GATE OR BUTTERFLY TYPE VALVES AND SHALL BE INSTALLED WITH SUP TYPE CAST IRON VALVE BOXES. GATE VALVES SHALL BE USED FOR LINES 2 INCHES THROUGH 10 INCHES IN DIAMETER. SHORT-ROSE VALVES SUITABLE FOR A NON-SHOCK SHUT-OFF PRESSURE OF 130 PSI AND SUITABLE FOR DIRECT BURIAL ARE SPECIFIED. GATE VALVES SHALL BE RESILIENT SEATED IRON-BODY, FULL-BRONZE MOUNTED VALVES CONFORMING TO ANWA C509 AND SHALL OPEN/CLOSE FOR SERVICE WITH THE TYPE AND CLASS OF PIPE USED. ALL VALVES SHALL HAVE NON-RISING STEMS AND SHALL BE EQUIPPED WITH A 2 INCH SQUARE OPERATING NUT. VALVES WILL BE FLANGE OR M.J. JOINTS. VALVE MARKERS SHALL BE LOCATED OUTSIDE OF PAVEMENT SECTIONS.

- WATER SERVICE TAP INSTALLATIONS SHALL MEET THE REQUIREMENTS OF THE CITY OF FERNDALE DEVELOPMENT STANDARDS.

- FIRE HYDRANTS AND FIRE MAINS MUST CONFORM TO COFSD W-1 AND THE FOLLOWING STANDARDS:
 - FIRE HYDRANTS SHALL HAVE TWO INDIVIDUALLY VALVED 2-1/2" PORTS AND ONE 5-1/4" MAIN VALVE OPENING. A 4-1/2" NST PUMPER NOZZLE AND A 5" STORZ PORT WITH CAP AND AIRCRAFT CABLE SHALL BE SUPPLIED. HYDRANTS SHALL BE EITHER IOWA OR M.J. 929T HYDRANTS.
 - FIRE HYDRANTS SHALL HAVE THE STORZ PORT FACING THE REQUIRED ACCESS AND THE BASE FLANGE OF THE HYDRANT MUST NOT VARY MORE THAN 1 FOOT IN ELEVATION FROM THE GRADE LEVEL OF THE REQUIRED ACCESS. THE LOWEST STEM SHALL BE A MINIMUM OF 14" ABOVE THE GROUND.
 - IF THE PUBLIC WORKS DIRECTOR DETERMINES THAT FIRE HYDRANTS ARE VULNERABLE TO VEHICULAR DAMAGE, APPROPRIATE HYDRANT GUARD POSTS SHALL BE PROVIDED. NO OBSTRUCTIONS SHALL EXIST WITHIN A 3-FOOT WORKING AREA OF EACH REQUIRED ACCESS. HYDRANT SHUTOFF VALVES SHALL BE LOCATED BETWEEN 5' AND 20' FROM THE HYDRANT.
 - UNDERGROUND SUPPLIES TO FIRE HYDRANTS MUST BE INSPECTED. SUCH INSPECTION SHALL INCLUDE VISUAL INSPECTION OF PIPING AND HYDROSTATIC PRESSURE TESTING TO A MIN. OF 250 PSI. A FLOW TEST WILL BE REQUIRED WHEN INSTALLATION IS COMPLETE.
 - FIRE HYDRANTS MUST BE MAINTAINED IN AN OPERABLE CONDITION AT ALL TIMES AND MUST BE REPAIRED OR REPLACED WHEN DEFECTIVE. HYDRANTS SHALL BE FULLY OPERABLE BEFORE CONSTRUCTION COMMENCES ABOVE GRADE LEVEL.

ROAD:

- THE FOLLOWING STANDARD DETAILS SHALL BE USED FOR CONSTRUCTION OF THE STANDARD STREET SECTION:

TYPICAL STREET SECTION	PER PROJECT
POC CURB AND GUTTER	COFSD R-9
POC SIDEWALKS	COFSD R-12 (SEE CONSTRUCTION DOCUMENTS TYP. SECTION)
POC CURB RAMPS	WSOT STD. DETAIL F-40
- ROADWAY EXCAVATION WITHIN THE ROADWAY PRISM SHALL BE CUT TO A UNIFORM GRADE. THE COMPLETED SUBGRADE SURFACE SHALL NOT VARY MORE THAN 0.10-FOOT FROM THE LOWER EDGE OF A 15-FOOT STRAIGHTEDGE PLACED ON THE SUBGRADE PARALLEL TO THE CENTERLINE UNLESS APPROVED BY THE ENGINEER.
- THE OWNER SHALL PROVIDE TO THE ENGINEER A REPORT FROM A QUALIFIED GEOTECHNICAL FIRM CERTIFYING THE COMPACTION OF THE GRAVEL BASE UNDER ALL PAVING AREAS.
- HOT MIX ASPHALT WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 5-04 OF THE WSOT SPECS, EXCEPT AS MODIFIED HEREIN. CONNECTION TO EXISTING PAVEMENT SHALL BE TO A STRAIGHT NEATLY-TRIMMED LINE.
- CRUSHED ROCK SURFACING FOR PAVEMENT SHALL BE IN ACCORDANCE WITH WSOT STANDARD SPECIFICATION, SECTION 9-03.9(3); BALLAST PER SECTION 9-03.9(1).
- CEMENT CONCRETE SHALL BE CLASS 3000 (WITH AIR ENTRAINMENT) IN ACCORDANCE WITH WSOT STANDARD SPECIFICATION, SECTION 6-02.3(2)b.
- CEMENT CONCRETE SIDEWALK SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS OR AS DESIGNATED BY THE ENGINEER IN ACCORDANCE WITH CITY STANDARDS, COFSD R-12.
- CEMENT CONCRETE DRIVEWAYS SHALL BE 6 INCHES THICK AND CONSTRUCTED WHERE SHOWN ON THE PLANS OR DESIGNATED BY THE ENGINEER IN ACCORDANCE WITH COFSD R-15. A 2- INCH LAYER OF 3/4 INCH DRAIN ROCK SHALL BE USED FOR DRIVEWAY BEDDING.
- CEMENT CONCRETE CURB AND GUTTER SHALL BE CONSTRUCTED WHERE SHOWN ON THE PLANS OR AS DESIGNED BY THE ENGINEER, IN ACCORDANCE WITH WSOT STANDARD SPECIFICATIONS, SECTION 8-04 AND COFSD R-9. HANDICAP RAMPS SHALL BE CONSTRUCTED PER WSOT STANDARD PLANS F-40. WHERE NEW CEMENT CONCRETE CURB AND GUTTER IS TO CONNECT TO EXISTING CURB AND GUTTER, ASSURE THAT NO ABRUPT OFFSETS IN LINE OR GRADE SHALL BE CONSTRUCTED WHICH WILL BE UNSIGHTLY OR IMPEDE FLOW IN THE GUTTER LINE.

- PAVEMENT:
 - SOIL RESIDUAL HERBICIDE SHALL BE APPLIED WITHIN 24 HOURS OF PAVING.
 - A TACK COAT OF ASPHALT SHALL BE PLACED BETWEEN ALL COURSES OF ASPHALT.
 - ALL PAVEMENT REPAIR SHALL BE SAW-CUT BEFORE REMOVAL. AR-4000W SHALL BE APPLIED TO ALL EDGES OF EXISTING PAVEMENT. WHERE NEWLY CONSTRUCTED PAVING MEETS EXISTING PAVING, THE APPLICANT SHALL PROVIDE A SMOOTH TRANSITION FROM EXISTING TO PROPOSED PAVING. CONTRACTOR SHALL COLD PLANE PER DIMENSIONS SPECIFIED ON THE PLANS, AND INSTALL A MINIMUM 2-FOOT WIDE PETROTING PAVING FABRIC, OR EQUIVALENT, OVER JOINT BETWEEN PAVING LIFTS.

SANITARY SEWER SYSTEMS:

- THE FOLLOWING STANDARD DETAILS SHALL BE USED IN CONSTRUCTING SANITARY SEWER IMPROVEMENTS:

PIPE BEDDING	COFSD SS-1
TRENCH BACKFILL	COFSD SS-15 & COFSD SS-1 & WSOT SPEC. 9-03.12
SS MANHOLE, TYPE 1-48"	WSOT STD. PLAN B-15.20-01
SSMH RING & COVER, TYPE 2	WSOT STD. PLAN B-30.70-03
SS CLEANOUTS	COFSD SS-5
SIDE SEWERS	COFSD SS-6, SS-8 & SS-13
- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF FERNDALE STANDARD SPECIFICATIONS AND DETAILS, AND WSOT SPECS. SANITARY SEWER SYSTEM INSTALLATION, BOTH PUBLIC AND PRIVATE, IS SUBJECT TO CITY REVIEW AND APPROVAL.
- ALL WORK MUST BE INSPECTED TO THE SATISFACTION OF THE CITY OF FERNDALE. 24 HOUR NOTICE MUST BE GIVEN PRIOR TO STARTING WORK. TESTING OF THE SEWER SYSTEM AND ALL CONNECTIONS TO EXISTING MAINS SHALL BE PERFORMED IN THE PRESENCE AND UNDER THE SUPERVISION OF A CITY OF FERNDALE REPRESENTATIVE.
- SANITARY SEWER MAINS SHALL BE A MINIMUM 8 INCH DIAMETER PVC PIPE CONFORMING TO WSOT SPEC 9-05.12(1) AND INSTALLED TO CITY SPECIFICATIONS.
- SANITARY SEWER PIPE BEDDING SHALL BE PEA GRAVEL PER COFSD SS-1. ALL TRENCHES SHALL BE BACKFILLED WITH CLASS B BANK RUN GRAVEL WITHIN CITY RIGHT OF WAY AND TRAVELED WAYS OUTSIDE OF RIGHT OF WAY (ACCESS EASEMENTS) AND SHALL BE COMPACTED TO A MINIMUM DENSITY OF 95% OPTIMUM PROCTOR. USE OF SUITABLE NATIVE BACKFILL OUTSIDE OF TRAVELED WAYS SHALL BE SUBJECT TO APPROVAL BY THE CITY.
- ALL MANHOLES SHALL BE INSTALLED PER CITY OF FERNDALE STANDARD DETAILS AND SHALL BE PRE-CHANNIELED. MANHOLE COVES ARE TO BE OFFSET SUCH THAT LADDER RUNGS ARE PARALLEL TO THE FLOW.
- ALL SIDE SEWERS SHALL BE INSTALLED PER CITY OF FERNDALE STANDARD DETAILS SS-6, SS-8 OR SS-13, EXCEPT THAT SINGLE SIDE SEWERS SHALL HAVE A MINIMUM DIAMETER OF 4".
- CONTRACTOR SHALL EXTEND SEWER STUBS 5 FEET BEYOND UTILITY CORRIDOR OR 15 FEET BEYOND RIGHT-OF-WAY LINE.
- EACH SIDE SEWER STUB SHALL BE CAPPED WITH A WATERIGHT PLUG. EACH STUB SHALL BE MARKED FOR LOCATION WITH A 2" DIA. PVC PIPE (MIN. SCHEDULE 40) WITH THE TOP 18" PAINTED GREEN AND STENCILED WITH THE WORD "SEWER" AND THE PIPE INVERT INDICATED. THE LOCATION MARKER SHALL BE CONNECTED TO THE SERVICE STUB BY A #12 COPPER WIRE.

CONSTRUCTION RECORD DRAWING

CONSTRUCTION RECORD NOTE

THESE DRAWINGS ARE PREPARED USING A COMBINATION OF CONTRACTOR PROVIDED REDLINES AND A CONSTRUCTION RECORD SURVEY PERFORMED BY NORTHWEST SURVEYING & GPS IN APRIL 2014. THE CONSTRUCTION RECORDS OF SAID DRAWINGS WERE PERFORMED BY SOUND DEVELOPMENT GROUP 04.11.14.

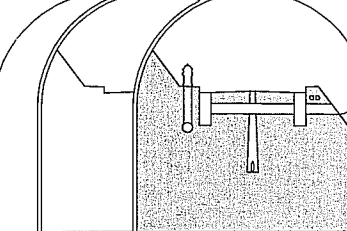
CONSTRUCTION RECORD LEGEND

102.02 - INDICATES CONSTRUCTED AS DESIGNED

402.00 102.02 - INDICATES CONSTRUCTION RECORD

CALL 48 HOURS BEFORE YOU DIG 1-800-424-5555

NO	DATE	REVISIONS	BY	APRVD
1	04.29.13	REVISED PER CITY COMMENTS	PLAU	PSEVERIN
2	06.03.13	REVISED PER CITY COMMENTS	PLAU	PSEVERIN
3	04.11.14	CONSTRUCTION RECORD DRAWINGS	PLAU	PSEVERIN
4	04.21.14	REVISED CONSTRUCTION RECORD DRAWINGS PER CITY	PLAU	PSEVERIN



Sound Development Group
ENGINEERING, SURVEYING & LAND DEVELOPMENT SERVICES
P.O. Box 1705 • 11