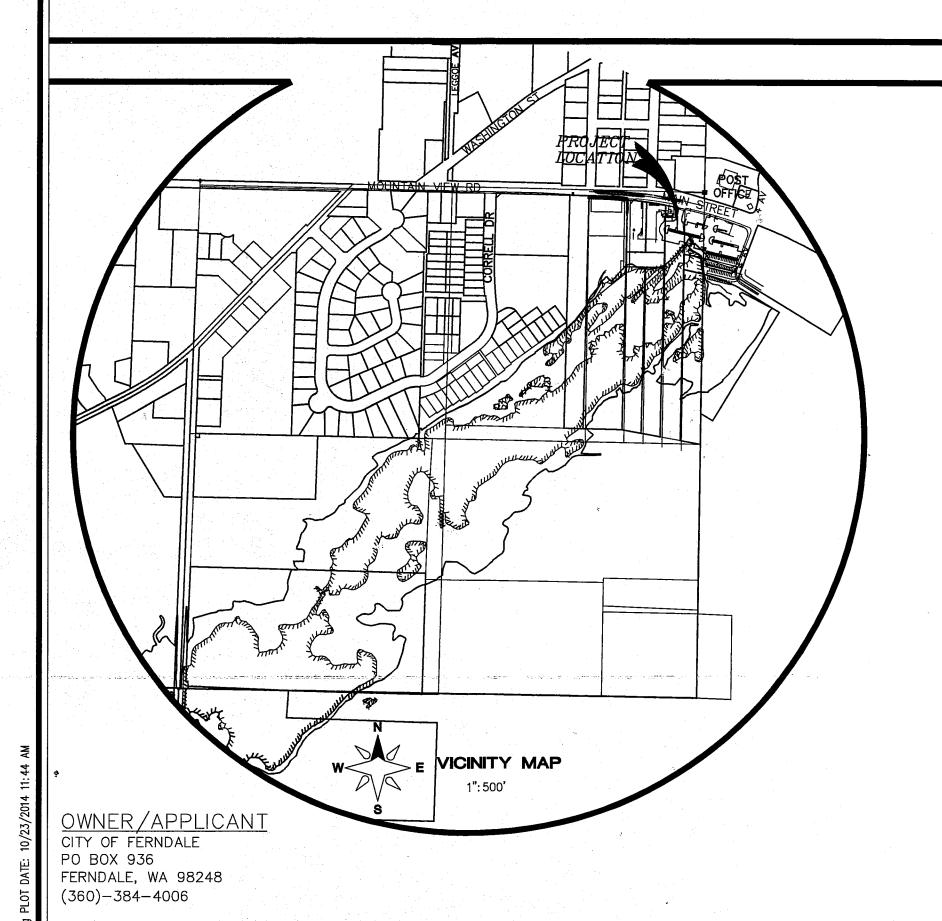
A PORTION OF THE NE 1/4 OF SECTION 30 TOWNSHIP 39 N., RANGE 2 E. OF THE W.M. CITY OF FERNDALE, WHATCOM COUNTY, WASHINGTON

CITY OF FERNDALE LIBRARY PARKING LOT

ALTERNATE 3 & 3A - RECORD DRAWINGS



- 1. COVER SHEET
- 2. EROSION CONTROL PLAN & DEMOLITION PLAN
- 3. SITE PLAN & COMPOSITE UTILITY PLAN
- 4. GRADING PLAN
- 5. ROADWAY AND GRADING DETAILS
- 6. STORM DRAINAGE PLAN
- 7. STORM DRAINAGE PLAN SHARED DRIVEWAY
- 8. STORM DRAINAGE DETAILS

ABBREVIATIONS: BLOW OFF = BACK OF WALK BOW CO = BACK OF WALK CLEAN OUT = BOTTOM OF WALL = CITY OF FERNDALE CENTERI INF CORRUGATED PLASTIC DRAIN PIPE DEPARTMENT OF ECOLOGY EXISTING GROUND ELEVATION FINISH GROUND = FORCE MAIN = INLET PROTECTION = LINEAR FEET ORDINARY HIGH WATER MARK PERFORATED PIPE PROPOSED POLYVINYL CHLORIDE PIPE ROOF AND YARD STORM DRAIN SOUTHEAST SANITARY SEWER SANITARY SEWER CLEAN OUT = SANITARY SEWER MANHOLE = STATION = TOP OF ASPHALT TOP OF CONCRETE = TEMPORARY = TOP OF WALL = WATER

LEGEND: ■ = FND SQARE CONC MON ■ = FND REBAR AND CAP O = FND IRON PIPE = SS SERVICE-UNDER CONSTRUCTION/EXISTING **=** EXIST TELEPHONE PEDESTAL = STORM LINE PER BASE BID **(T)** = EXIST TELEPHONE MANHOLE = STORM LINE - UNDER CONSTRUCTION/EXISTING **__** = EXIST SIGN = STORM LINE = STORM DRAIN CATCH BASIN = EXIST LANDSCAPING = PAVEMENT = EXISTING PAVEMENT AREA = CONCRETE SIDEWALK = EXISTING CONCRETE AREA = SAWCUT/REMOVAL AREA

= EXISTING GRAVEL AREA

APPROVED

BY CITY OF FERNDALE

= RETAINING WALL

THE WORK COVERED BY THIS ADDENDUM SHALL BE PERFORMED UNDER THE SAME TERMS AND CONDITIONS AS THAT INCLUDED IN THE ORIGINAL CONTRACT

ENGINEER

FERNDALE, WA 98248

FERNDALE, WA 98248

(360) 383-0620

(360) 383-0620

5160 INDUSTIRAL PL., SUITE 108

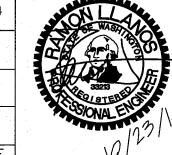
5160 INDUSTIRAL PL., SUITE 108

CONTACT: KYLE HAGGITH, PLS.

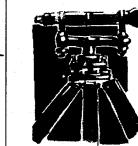
CONTACT: RAMON LLANOS, PE.

LDES, INC.

LDES, INC.



ENGINEERING PRACTICE



I HEREBY CERTIFY THAT THE IMPROVEMENTS IN "CITY OF FERNDALE

PUBLIC LIBRARY" HAVE BEEN INSPECTED BY LDES, INC AND TO THE

BEST OF MY KNOWLEDGE, HAVE BEEN CONSTRUCTED IN

CONFORMANCE WITH THE CITY OF FERNDALE DEVELOPMENT STANDARDS, THE CITY OF FERNDALE MUNICIPAL CODE, SUBSEQUENT

STANDARDS ADOPTED BY REFERENCE THEREIN, AND STANDARD

LDES, INC. 5160 INDUSTRIAL PL. #108 FERNDALE, WA 98248 PHONE 360-383-0620 FAX 360-383-0639

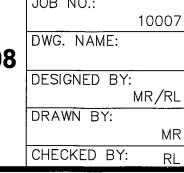
SURVEYOR'S CERTIFICATION

I CERTIFY THAT THE LOCATIONS, ELEVATIONS, DEPTHS, AND

AS-BUILT COMMENTS REFLECTING MATERIALS ACTUALLY USED

DURING CONSTRUCTION ACCURATELY REFLECT EXISTING FIELD

CONDITIONS AS DETERMINED BY ME OR UNDER MY DIRECT SUPERVISION ON THIS DATE: 10/24/2014

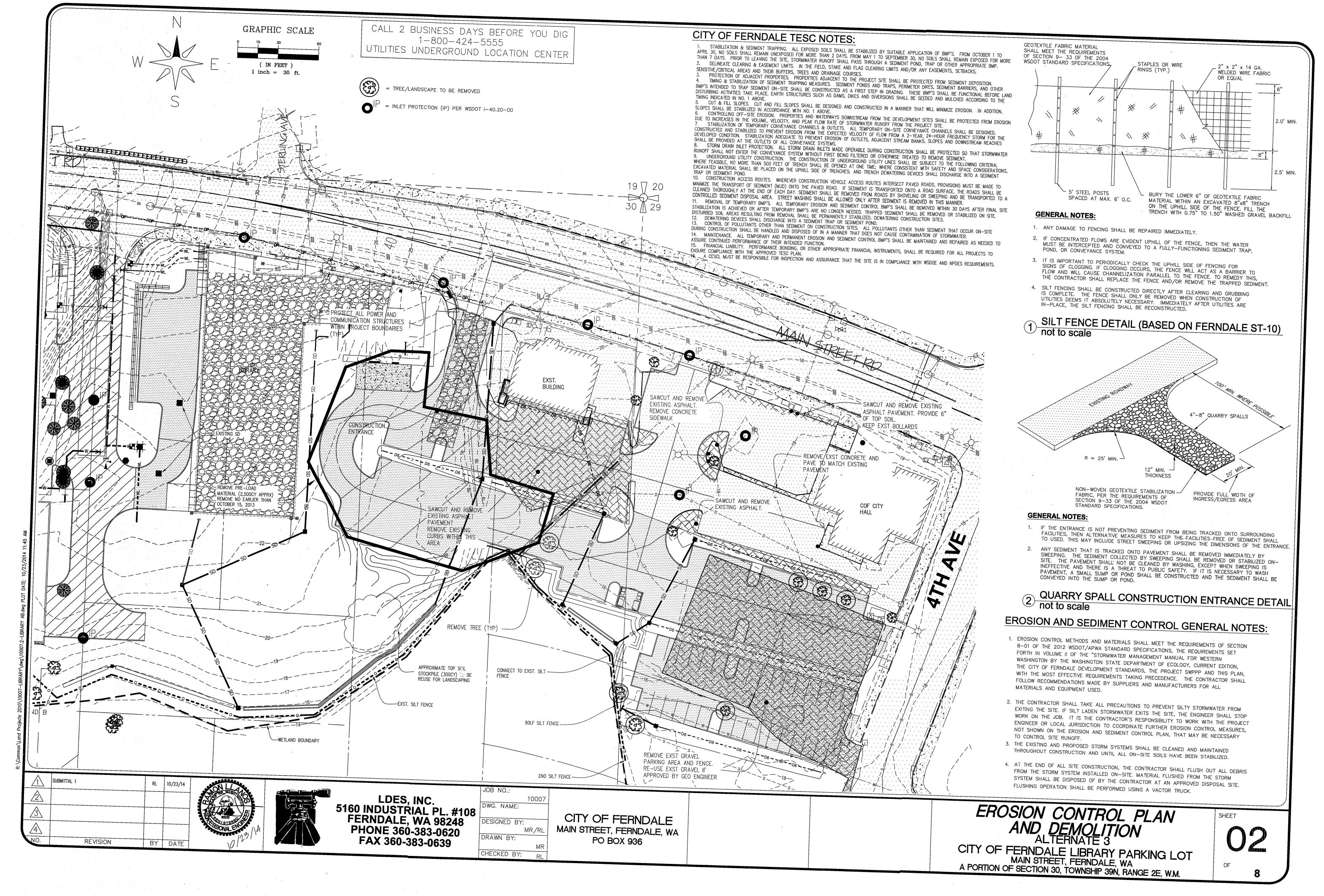


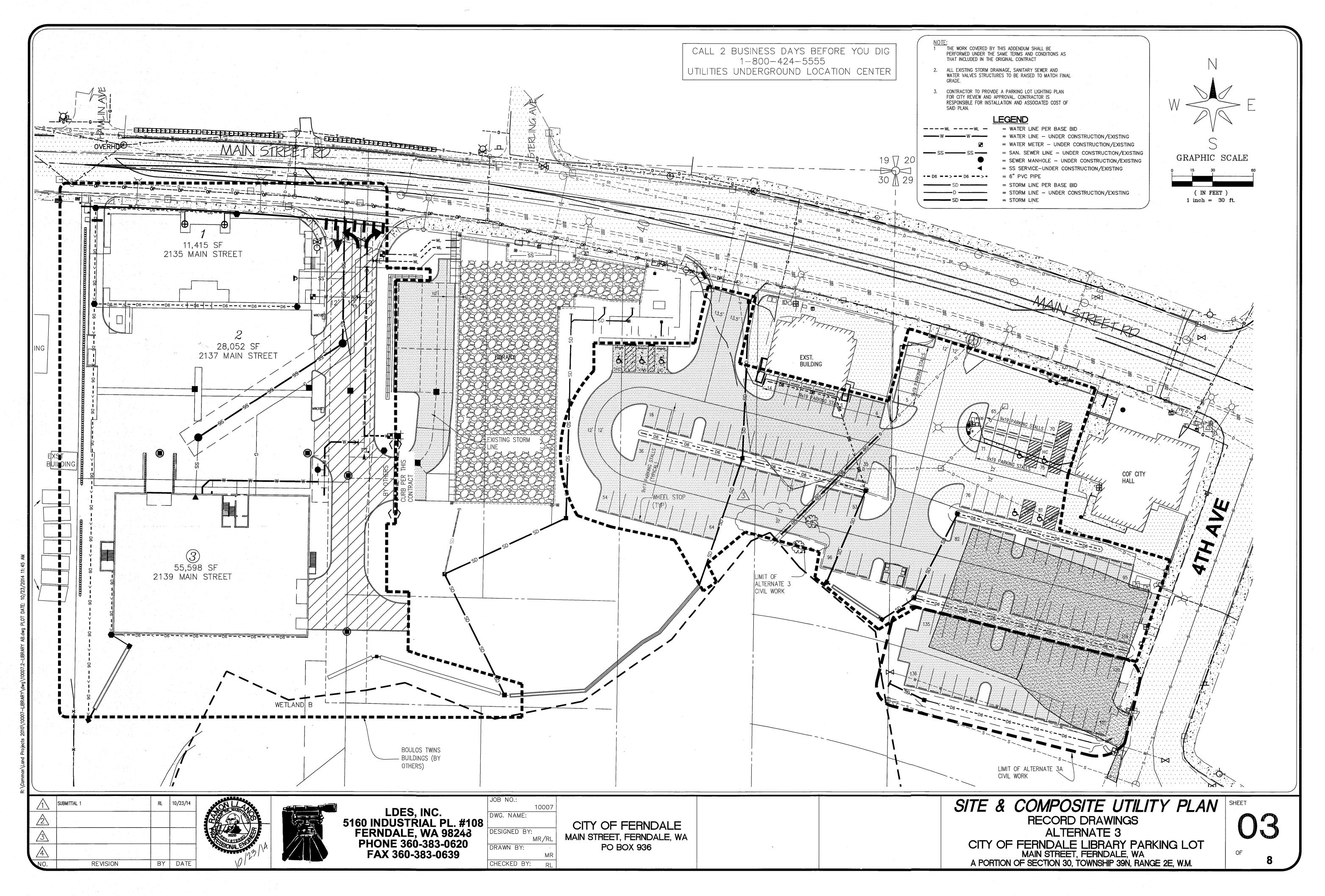
CITY OF FERNDALE MAIN STREET, FERNDALE, WA PO BOX 936 COVER SHEET
RECORD DRAWINGS

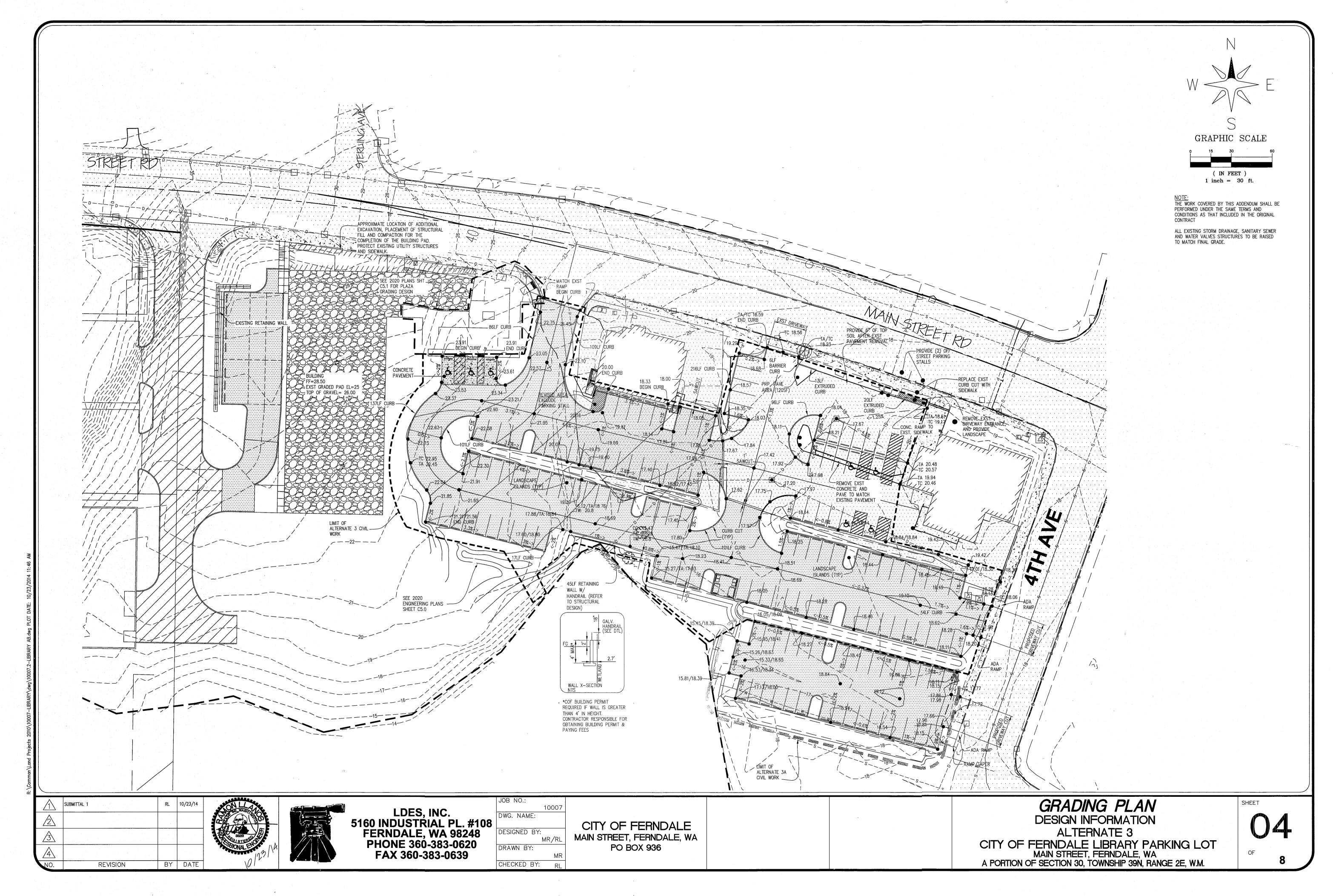
ALTERNATE 3
CITY OF FERNDALE LIBRARY PARKING LOT
MAIN STREET, FERNDALE, WA
A PORTION OF SECTION 30, TOWNSHIP 39N, RANGE 2E, W.M.

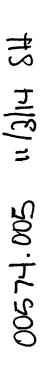
SHEET

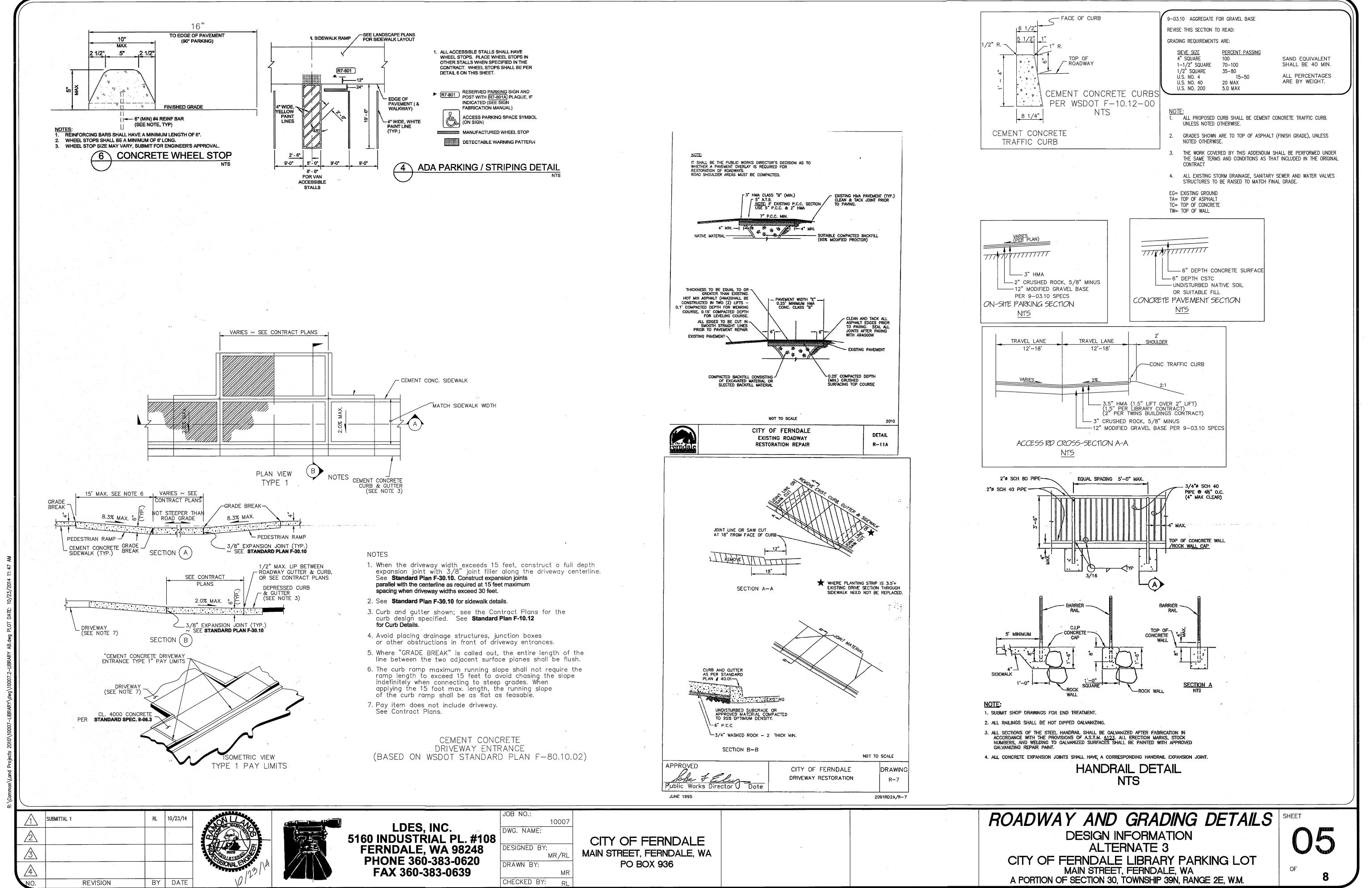
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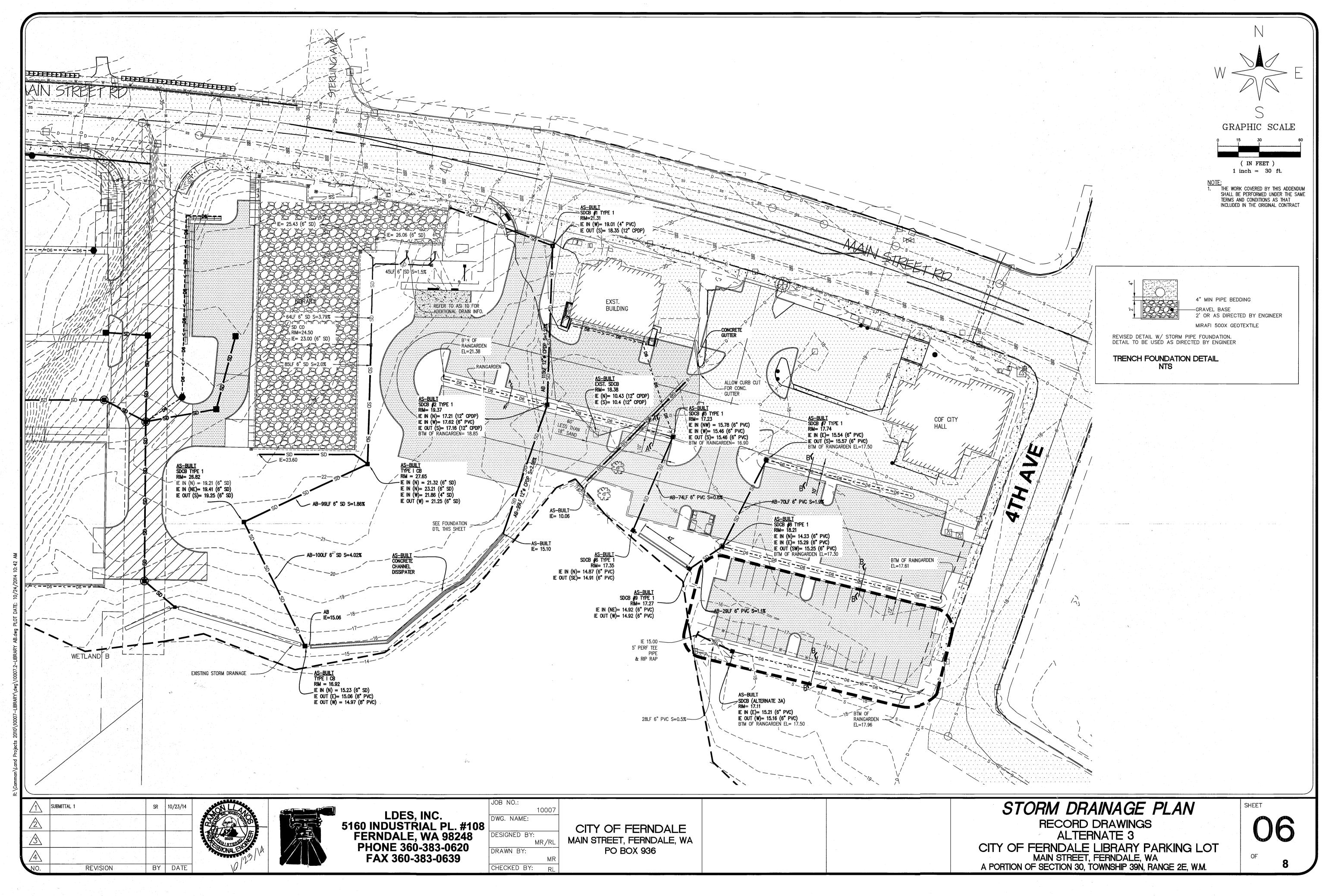


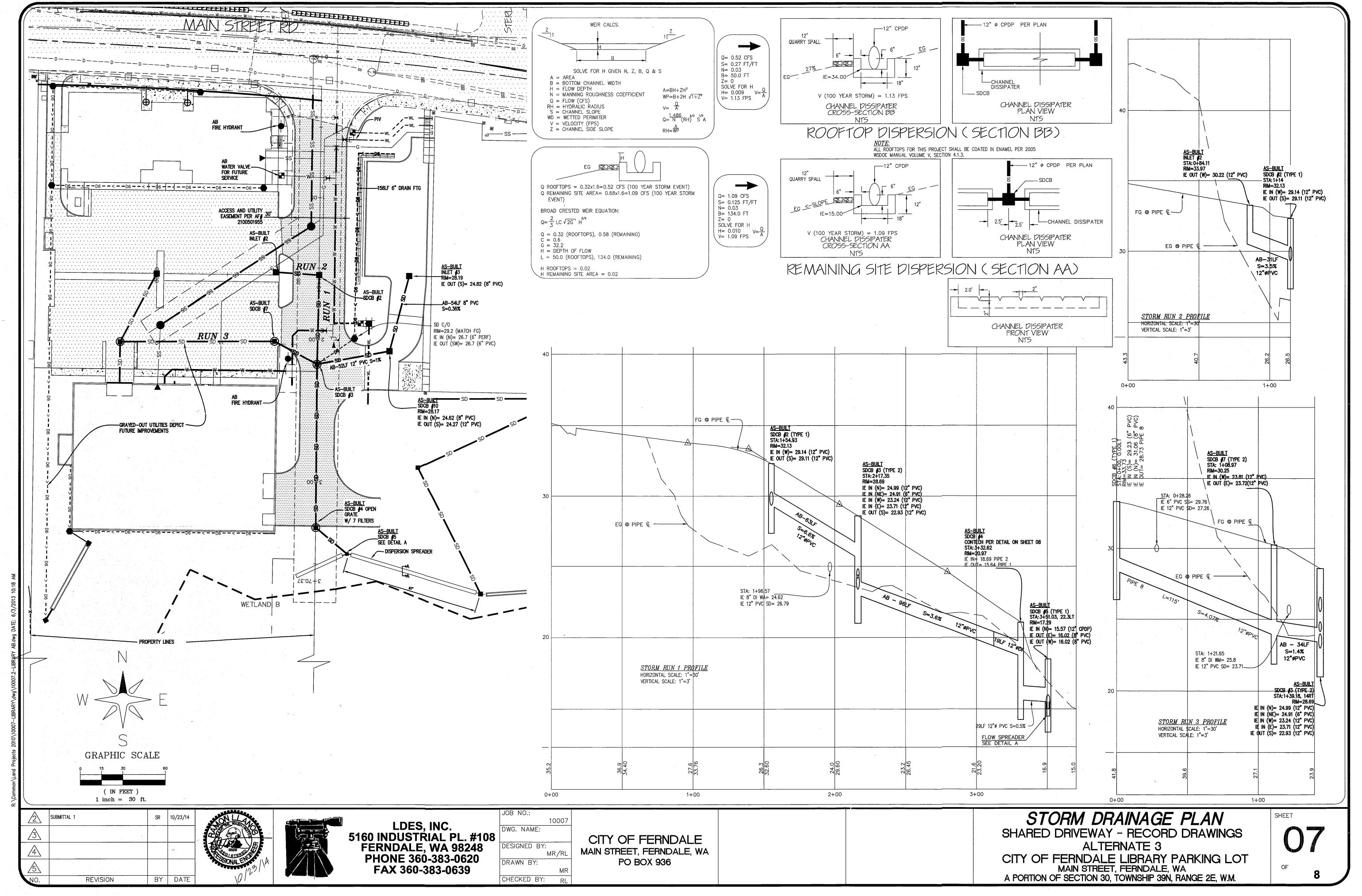


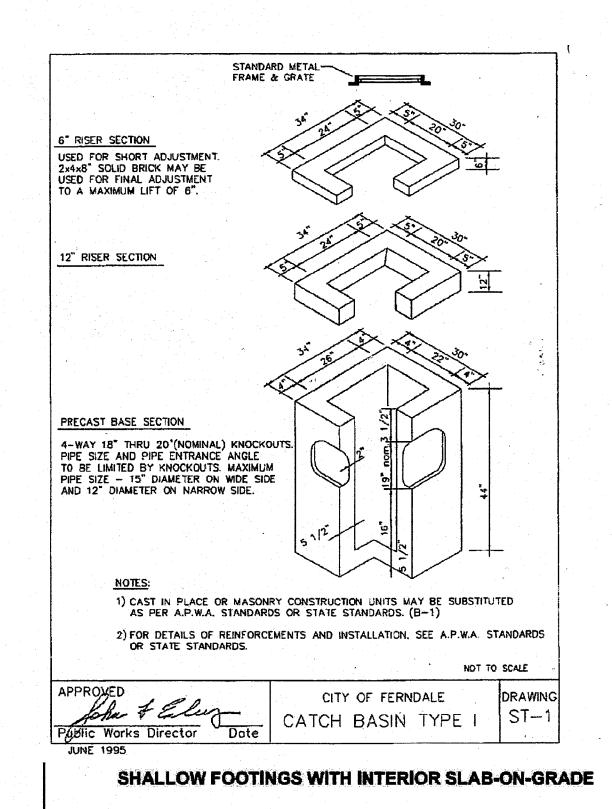


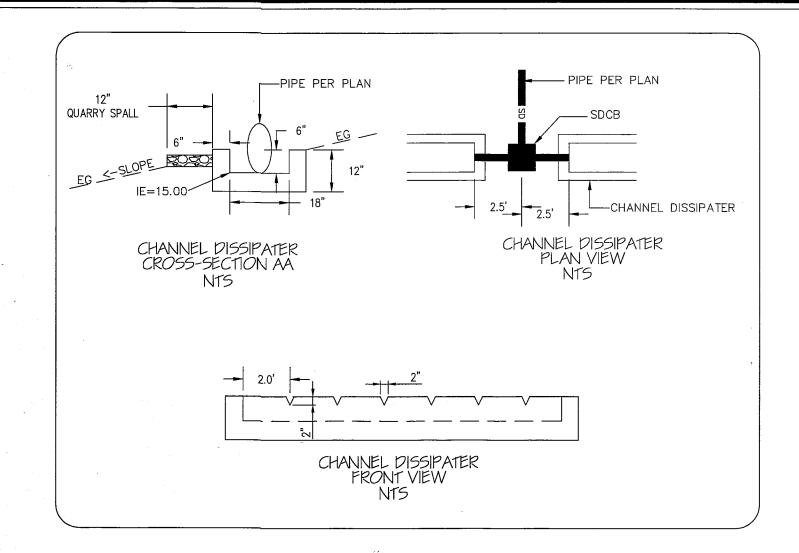


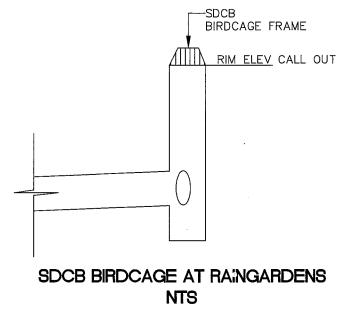


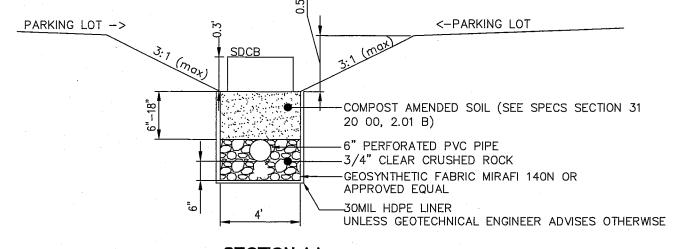




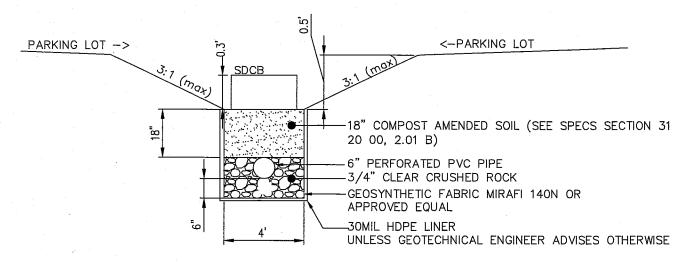




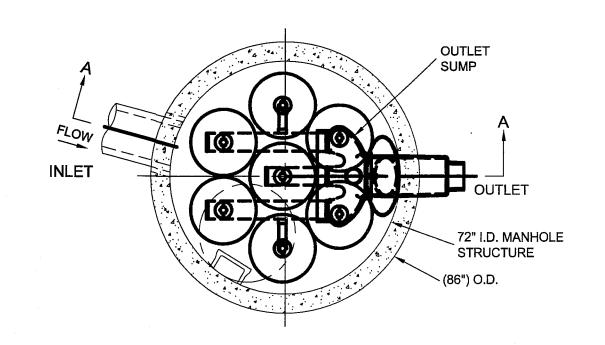




SECTION AA INFILTRATION TRENCH DETAIL NTS

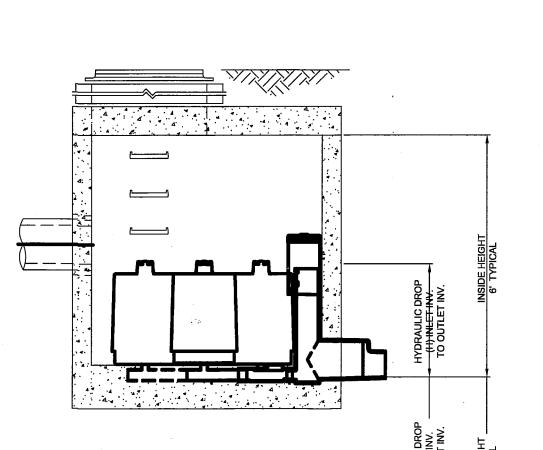


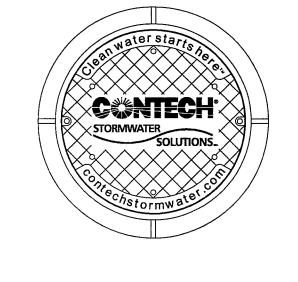
SECTION BB
INFILTRATION TRENCH DETAIL
NTS



PLAN VIEW
STANDARD OUTLET RISER
FLOWKIT: 42A

SECTION A-A







STORMFILTER DESIGN NOTES

STORMFILTER TREATMENTCAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. THE STANDARD MANHOLE STYLE IS SHOWN WITH THE MAXIMUM NUMBER OF CARTRIDGES (7). VOLUME SYSTEM IS ALSO AVAILABLE WITH MAXIMUM 7 CARTRIDGES.

Ø72" MANHOLE STORMFILTER PEAK HYDRAULIC CAPACITY IS 1.5 CFS. IF THE SITE CONDITIONS EXCEED 1.5 CFS AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

| | | | • | | | |
|--------------------------------|-----------|-----------|-----------|-----------|---------------------------------------|-----------|
| CARTRIDGE SELECTION | | | | | e e e e e e e e e e e e e e e e e e e | |
| CARTRIDGE HEIGHT | 2 | 7" | 1: | 8" | LOW | DROP |
| RECOMMENDED HYDRAULIC DROP (H) | 3.05' | | 2.3' | | 1.8' | |
| SPECIFIC FLOW RATE (gpm/sf) | 2 gpm/ft² | 1 gpm/ft² | 2 gpm/ft² | 1 gpm/ft² | 2 gpm/ft ² | 1 gpm/ft² |
| CARTRIDGE FLOW RATE (gpm) | 22.5 | 11.25 | 15 | 7.5 | 10 | 5 |

GENERAL NOTES

1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.

2. DIMENSIONS MARKED WITH () ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VA

- 2. DIMENSIONS MARKED WITH () ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
 3. FOR SITE SPECIFIC DRAWINGS WITH DETAILED VAULT DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.conteches.com
 4. STORMFILTER WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
- STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' 5' AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
 FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF CLEANING. RADIAL MEDIA DEPTH SHALL BE 7-INCHES. FILTER MEDIA CONTACT TIME SHALL BE AT
- LEAST 39 SECONDS.
 7. SPECIFIC FLOW RATE IS EQUAL TO THE FILTER TREATMENT CAPACITY (gpm) DIVIDED BY THE FILTER CONTACT SURFACE AREA (sq ft).
- INSTALLATION NOTES

 1. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.

 2. CONTRACTOR TO BROWNE FOURTHEAST WITH SUBSICIENT LIETUNG AND BEACH CARACITY TO LIET AND SET
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMFILTER STRUCTURE (LIFTING CLUTCHES PROVIDED).
 CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET PIPE(S).
 CONTRACTOR TO PROVIDE AND INSTALL CONNECTOR TO THE OUTLET RISER STUB. STORMFILTER EQUIPPED WITH A DUAL DIAMETER HDPE OUTLET STUB AND SAND COLLAR. IF OUTLET PIPE IS LARGER THAN 8 INCHES, CONTRACTOR TO REMOVE THE 8 INCH OUTLET STUB AT MOLDED IN CUT LINE. COUPLING BY FERNCO OR EQUAL AND PROVIDED BY CONTRACTOR.
 CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM

| SITE SPECIFIC DATA REQUIREMENTS | | | | | |
|---------------------------------|-------------------------------|-----------|----------|---------|--|
| STRUCTURE ID | | | | 4 | |
| WATER QUALITY | WATER QUALITY FLOW RATE (cfs) | | | | |
| PEAK FLOW RAT | E (cfs) | | | 0.655 | |
| RETURN PERIOD | OF PEAK F | LOW (yrs) | | 100 | |
| # OF CARTRIDGE | 7 | | | | |
| CARTRIDGE FLO | 11.25 | | | | |
| MEDIA TYPE (CS | METAL RX | | | | |
| | | MATERIAL | | IAMETER | |
| PIPE DATA: | I.E. | MATERIAL | DIAMETER | | |
| INLET PIPE #1 | 18.69 | PVC | 12 | | |
| INLET PIPE #2 | | | | | |
| OUTLET PIPE | 15.64 | PVC | 12 | | |
| UPSTREAM RIM | AB - 20.97 | | | | |
| DOWNSTREAM RIM ELEVATION | | | | · | |
| ANTI-FLOTATION | WIDTH | | HEIGHT | | |
| NOTES/SPECIAL REQUIREMENTS: | | | | | |
| * PER ENGINEER | OF RECOR | RD | | | |

| \triangle | SUBMITTAL 1 | RL | 10/23/14 |
|-------------|-------------|----|----------|
| 2 | | | |
| 3 | | | |
| 4 | | | |

GEOTEST SERVICES, INC.

741 Marine Drive Bellingham, WA 98225

Phone: (360) 733-7318

Finc; (360) 733-7418

or Pavement

Approved Non-woven – Geoleville Filter Fabric

Footings should be properly buried for frost protection in accordance with

Date: 3-31-10 By: DS Scale: NONE

Ferndale Library and Ajacent Development

Approximately 2113 Main Street

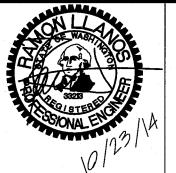
Ferndale, Washington

TYPICAL FOOTING & WALL DRAIN SECTION

International Building Code or local building codes.

(Typically 18 inches below exterior finished grades)

BY DATE





10-0076

LDES, INC. 5160 INDUSTRIAL PL. #108 FERNDALE, WA 98248 PHONE 360-383-0620 FAX 360-383-0639

| | | | TO-SE |
|---|--------------|--------|-------|
| | JOB NO.: | | |
| | 1 | 1000.7 | |
| _ | DWG. NAME: | | |
| 3 | | | |
| | DESIGNED BY: | | |
| | - M | IR/RL | |
| | DRAWN BY: | | |
| | | MR | |
| | CHECKED BY: | RI | |

CITY OF FERNDALE MAIN STREET, FERNDALE, WA PO BOX 936

CONSTRUCTION-RELATED EROSION RUNOFF.

STORM DRAINAGE DETAILS

DESIGN INFORMATION
ALTERNATE 3
CITY OF FERNDALE LIBRARY PARKING LOT
MAIN STREET, FERNDALE, WA

A PORTION OF SECTION 30, TOWNSHIP 39N, RANGE 2E, W.M.

30

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