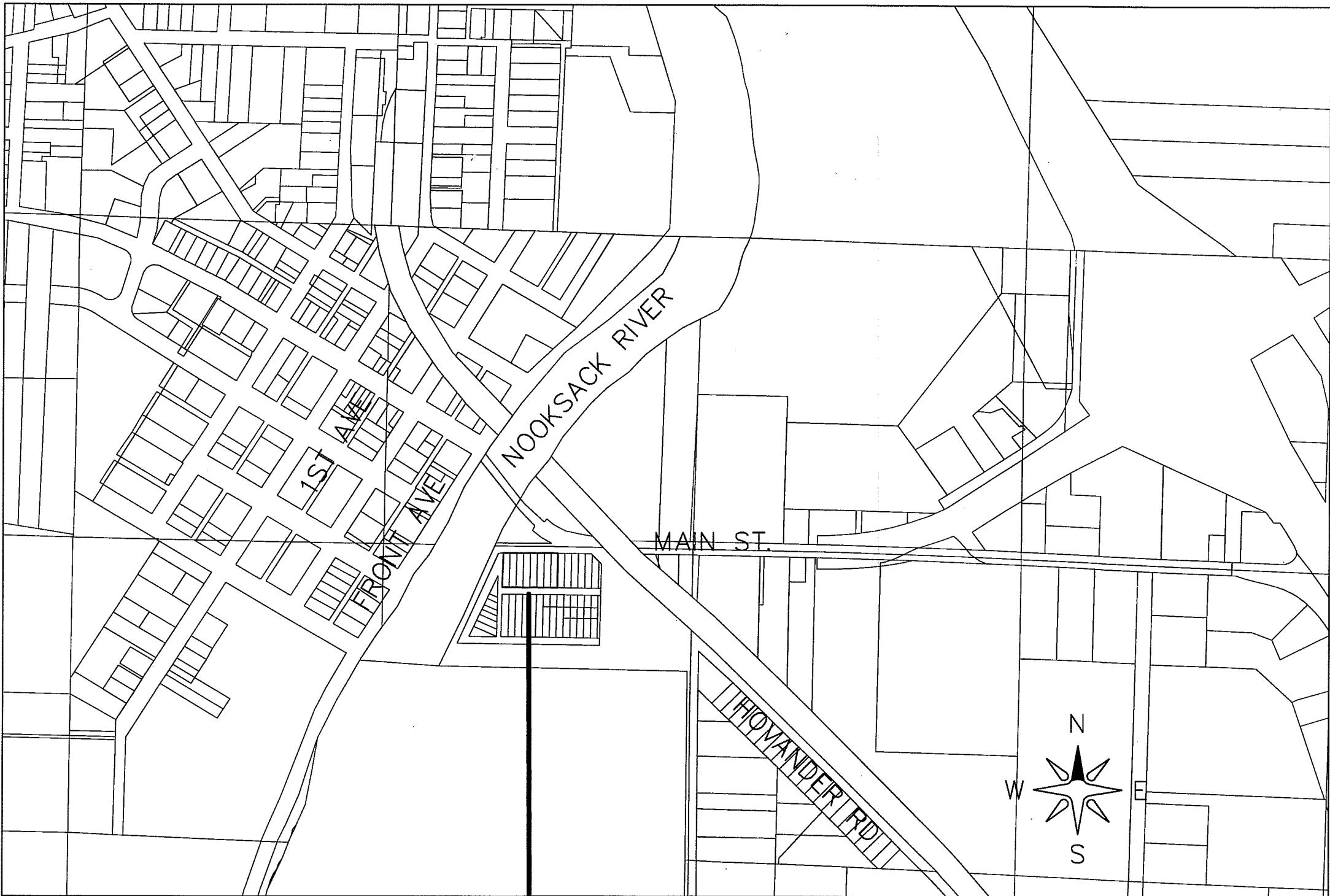


PORTION OF THE SE 1/4, NW 1/4, SECTION 29,  
TOWNSHIP 39 NORTH, RANGE 2 EAST OF W.M.,  
FERNDAL, WASHINGTON  
1951 MAIN ST

00549.00 3/21/13 SH



VICINITY MAP  
1"=500'

PROJECT AREA  
1951 MAIN ST.  
FERNDAL, WA 98248

OWNER APPLICANT  
TIM MCCULLOCH  
1504 BROADWAY  
BELLINGHAM, WA 98225  
360-647-1040

ENGINEER  
LDES, INC.  
5160 INDUSTRIAL PL #108  
FERNDAL, WA 98248  
CONTACT: RAMON LLANOS, PE.  
(360) 383-0620

CONSTRUCTION PLANS	
Sht No.	Sheet Title
01	COVER SHEET
02	EXISTING CONDITIONS
02A	EXISTING CONDITIONS 2
03	TEMPORARY EROSION CONTROL PLAN
04	GRADING PLAN
05	STORM DRAINAGE PLAN AND PROFILE
06	DETAILS & GENERAL NOTES

LEGEND:

- = AS BUILT STORM DRAIN CATCH BASIN
- = SAND FILTER
- WM = EXISTING WATER METER BOX
- △ = SIDEWALK
- = ASPHALT PAVEMENT
- = LANDSCAPING
- 0---0--- = EXIST BARBED WIRE FENCE
- 10--- = EXIST CONTOUR (INDEX)
- 11--- = EXIST CONTOUR (NORMAL)
- SD---SD--- = AS BUILT STORM DRAIN LINE

APPROVED  
3/24/10  
Ramon Llanos  
CITY OF FERNDAL

DRAWN BY AD DATE 3/15/2010  
CHECKED BY RL DATE 3/15/2010

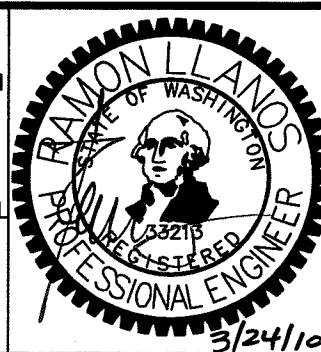
1951 MAIN ST

JOB # 8051

FOR: TIM MCCULLOCH

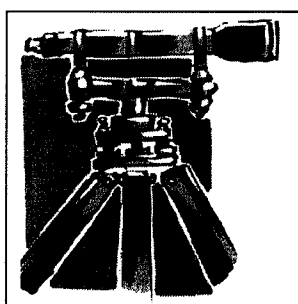
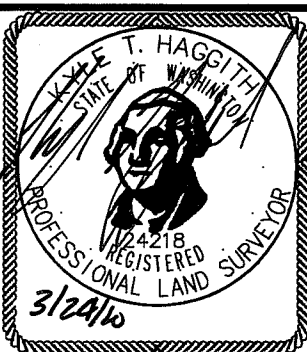
ENGINEER'S CERTIFICATION

I HEREBY CERTIFY THAT THE IMPROVEMENTS IN 1951 MAIN ST HAVE BEEN INSPECTED BY LDES AND TO THE BEST OF MY KNOWLEDGE, HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE CITY OF FERNDAL DEVELOPMENT STANDARDS, THE CITY OF FERNDAL MUNICIPAL CODE, SUBSEQUENT STANDARDS ADOPTED BY REFERENCE THEREIN, AND STANDARD ENGINEERING PRACTICE.  
3/24/10  
RAMON LLANOS, P.E.



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:  
3/24/10  
KYLE HAGGITH, P.S.



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

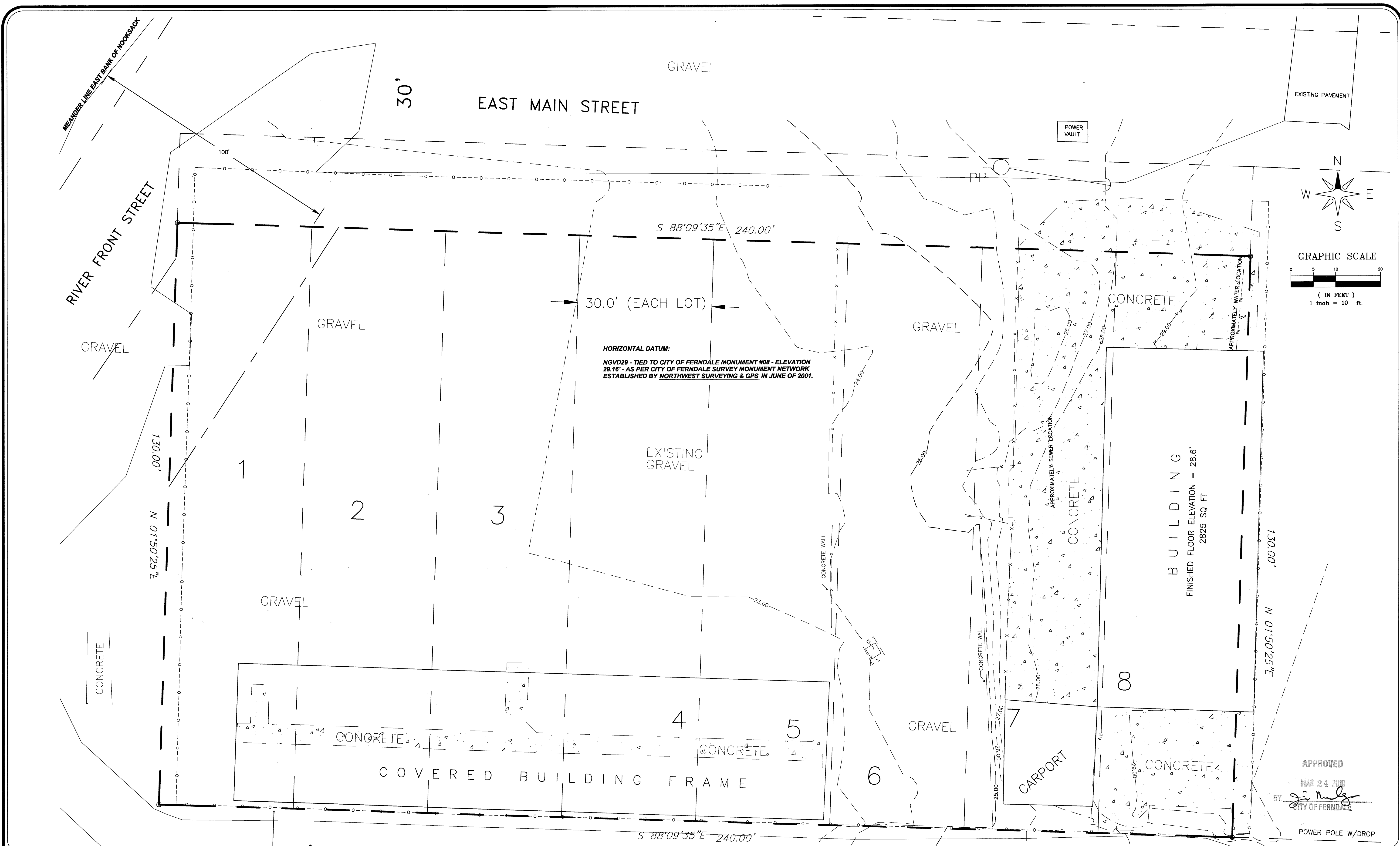
1951 MAIN ST  
COVER SHEET  
AS-BUILT DRAWINGS

REVISIONS - INITIALS/DATE/COMMENTS

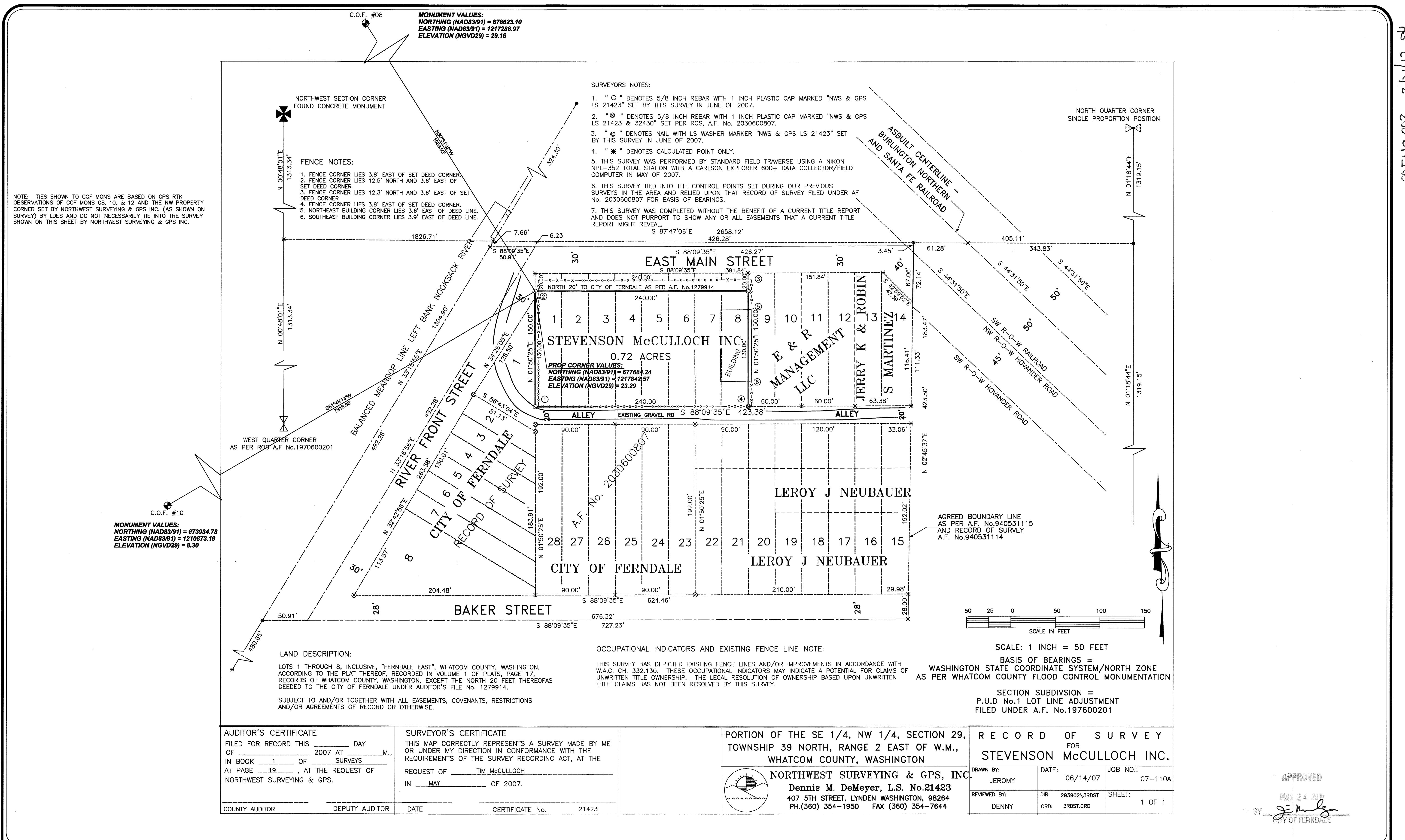
AD	3/8/2010	SUBMITTAL #1
AD	3/15/2010	REVISIONS PER C.O.F. REDLINES

SHEET  
01  
OF  
06

00549.002 3/21/13 SH

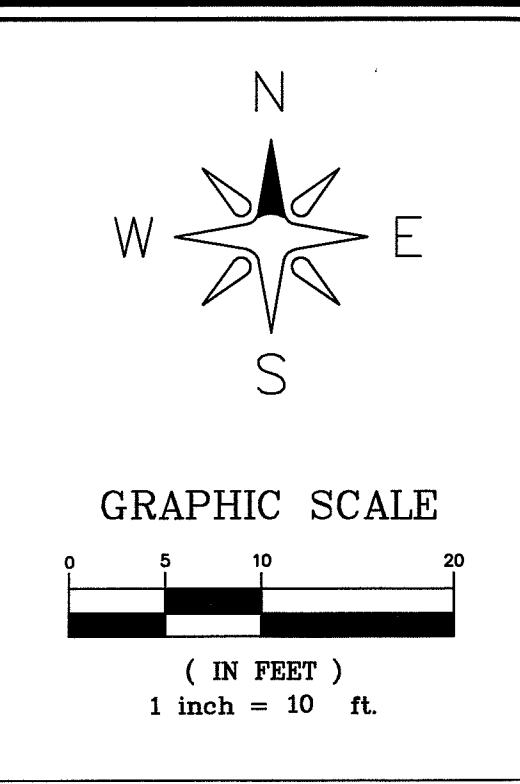


DRAWN BY AD DATE 3/15/2010		1951 MAIN ST				LDES, INC. 5160 INDUSTRIAL PL #108 FERNDAL, WA 98248 PHONE 360-383-0620 FAX 360-383-0639	1951 MAIN ST EXISTING CONDITIONS AS-BUILT DRAWINGS	REVISIONS - INITIALS/DATE/COMMENTS		SHEET <b>02</b> OF 06
CHECKED BY RL DATE 3/15/2010		FOR: TIM MCCULLOCH						AD 3/8/2010	SUBMITTAL #1	

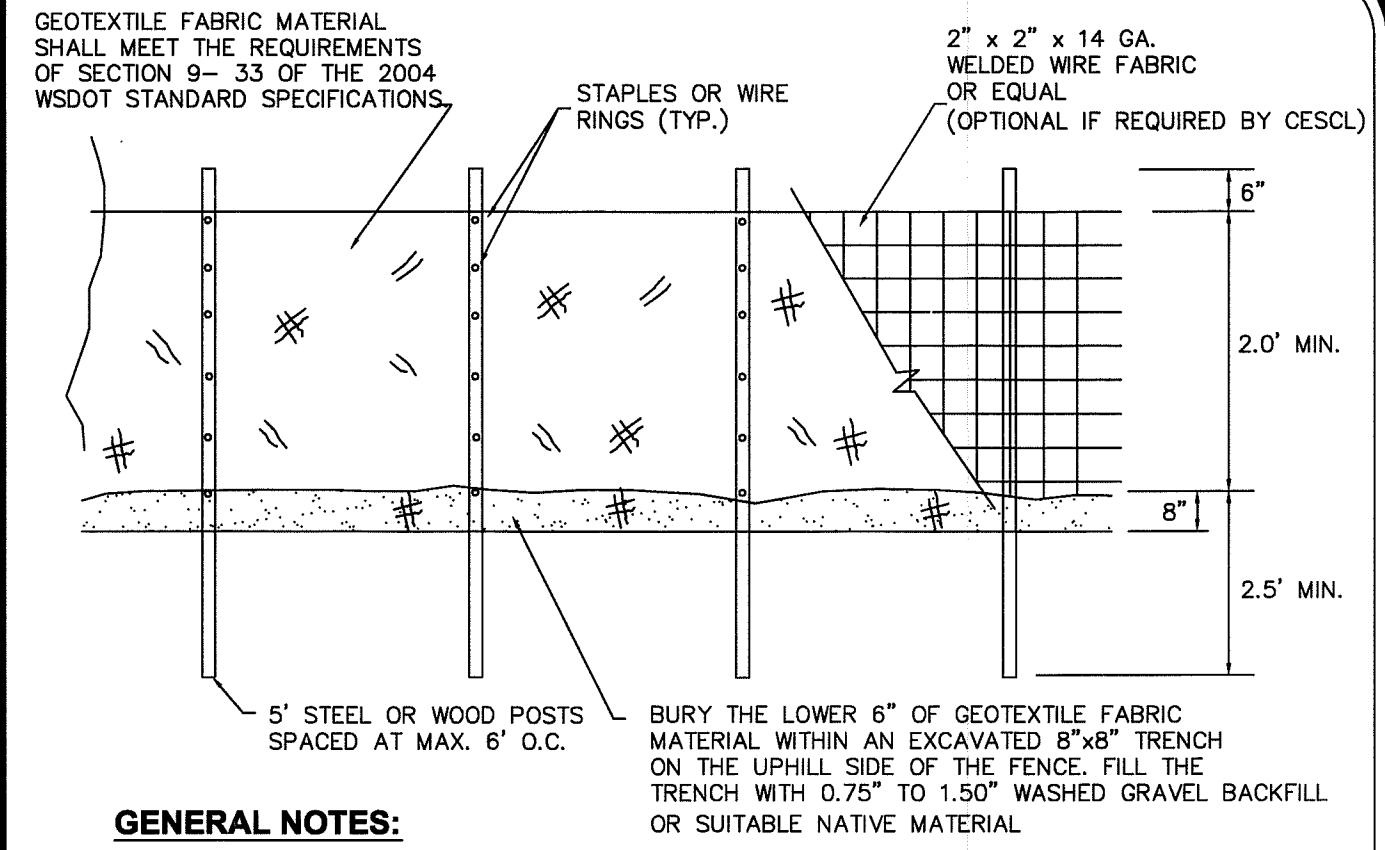
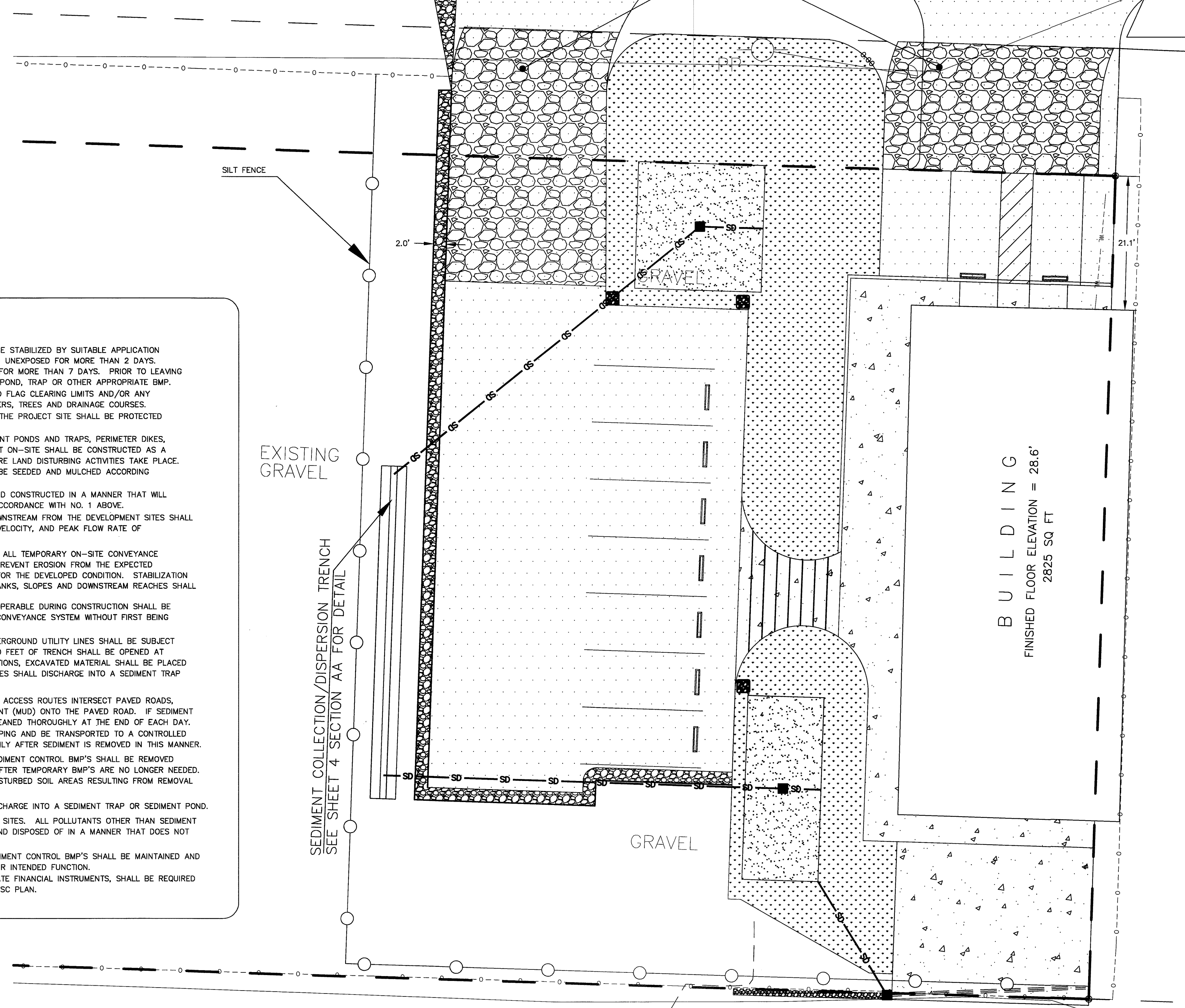


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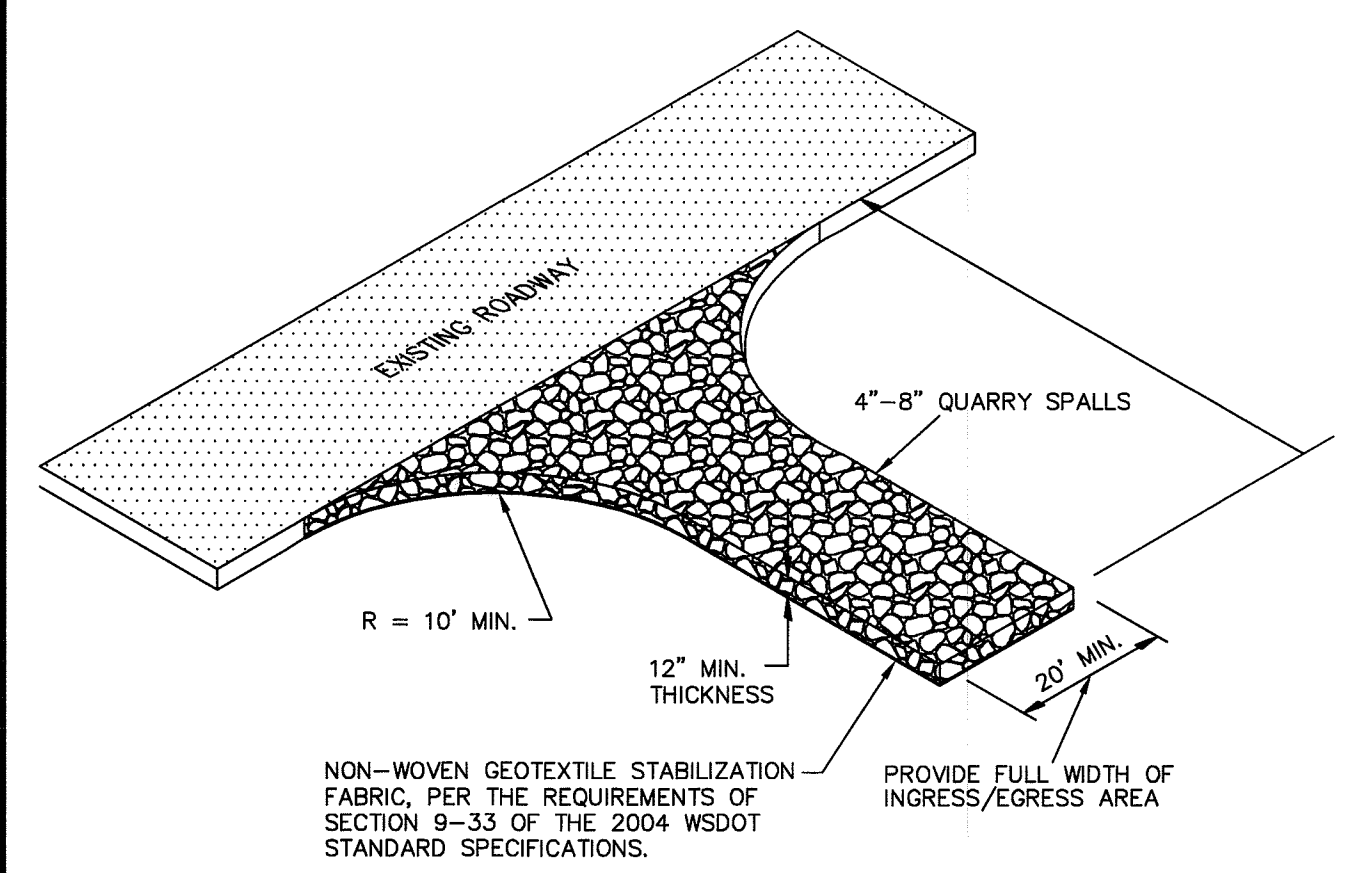


EAST MAIN STREET



- GENERAL NOTES:**
1. ANY DAMAGE TO FENCING SHALL BE REPAIRED IMMEDIATELY.
  2. IF CONCENTRATED FLOWS ARE EVIDENT UPHILL OF THE FENCE, THEN THE WATER MUST BE INTERCEPTED AND CONVEYED TO A FULLY-FUNCTIONING SEDIMENT TRAP, POND, OR CONVEYANCE SYSTEM.
  3. IT IS IMPORTANT TO PERIODICALLY CHECK THE UPHILL SIDE OF FENCING FOR SIGNS OF CLOGGING. IF CLOGGING OCCURS, THE FENCE WILL ACT AS A BARRIER TO FLOW AND WILL CAUSE CHANNELIZATION PARALLEL TO THE FENCE. TO REMEDY THIS, THE CONTRACTOR SHALL REPLACE THE FENCE AND/OR REMOVE THE TRAPPED SEDIMENT.
  4. SILT FENCING SHALL BE CONSTRUCTED DIRECTLY AFTER CLEARING AND GRUBBING IS COMPLETE. THE FENCE SHALL ONLY BE REMOVED WHEN CONSTRUCTION OF UTILITIES DEEMS IT ABSOLUTELY NECESSARY. IMMEDIATELY AFTER UTILITIES ARE IN-PLACE, THE SILT FENCING SHALL BE RECONSTRUCTED.

① SILT FENCE DETAIL BMP 233  
not to scale



- GENERAL NOTES:**
1. IF THE ENTRANCE IS NOT PREVENTING SEDIMENT FROM BEING TRACKED ONTO SURROUNDING FACILITIES, THEN ALTERNATIVE MEASURES TO KEEP THE FACILITIES FREE OF SEDIMENT SHALL TO USED. THIS MAY INCLUDE STREET SWEEPING OR UPSIZING THE DIMENSIONS OF THE ENTRANCE.
  2. ANY SEDIMENT THAT IS TRACKED ONTO PAVEMENT SHALL BE REMOVED IMMEDIATELY BY SWEEPING. THE SEDIMENT COLLECTED BY SWEEPING SHALL BE REMOVED OR STABILIZED ON-SITE. THE PAVEMENT SHALL NOT BE CLEANED BY WASHING, EXCEPT WHEN SWEEPING IS INEFFECTIVE AND THERE IS A THREAT TO PUBLIC SAFETY. IF IT IS NECESSARY TO WASH PAVEMENT, A SMALL SUMP OR POND SHALL BE CONSTRUCTED AND THE SEDIMENT SHALL BE CONVEYED INTO THE SUMP OR POND.

② QUARRY SPALL CONSTRUCTION ENTRANCE DETAIL  
not to scale

APPROVED  
BY: *[Signature]*  
CITY OF FERNDALE

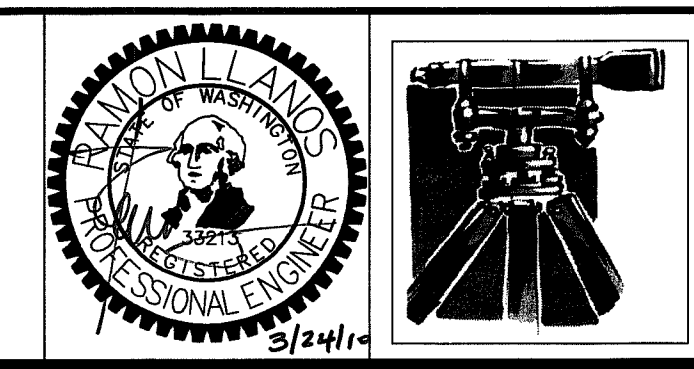
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1-800-424-5555  
UTILITIES UNDERGROUND LOCATION CENTER

- CITY OF FERNDALE TESC NOTES:**
1. STABILIZATION & SEDIMENT TRAPPING. ALL EXPOSED SOILS SHALL BE STABILIZED BY SUITABLE APPLICATION OF BMP'S. FROM OCTOBER 1 TO APRIL 30, NO SOILS SHALL REMAIN UNEXPOSED FOR MORE THAN 2 DAYS. FROM MAY 1 TO SEPTEMBER 30, NO SOILS SHALL REMAIN EXPOSED FOR MORE THAN 7 DAYS. PRIOR TO LEAVING THE SITE, STORMWATER RUNOFF SHALL PASS THROUGH A SEDIMENT POND, TRAP OR OTHER APPROPRIATE BMP.
  2. DELINEATE CLEARING & EASEMENT LIMITS. IN THE FIELD, STAKE AND FLAG CLEARING LIMITS AND/OR ANY EASEMENTS, SETBACKS, SENSITIVE CRITICAL AREAS AND THEIR BUFFERS, TREES AND DRAINAGE COURSES.
  3. PROTECTION OF ADJACENT PROPERTIES. PROPERTIES ADJACENT TO THE PROJECT SITE SHALL BE PROTECTED FROM SEDIMENT DEPOSITION.
  4. TIMING & STABILIZATION OF SEDIMENT TRAPPING MEASURES. SEDIMENT PONDS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS, AND OTHER BMP'S INTENDED TO TRAP SEDIMENT ON-SITE SHALL BE CONSTRUCTED AS A FIRST STEP IN GRADING. THESE BMP'S SHALL BE FUNCTIONAL BEFORE LAND DISTURBING ACTIVITIES TAKE PLACE. EARTH STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS SHALL BE SEEDED AND MULCHED ACCORDING TO THE TIMING INDICATED IN NO. 1 ABOVE.
  5. CUT & FILL SLOPES. CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. IN ADDITION, SLOPES SHALL BE STABILIZED IN ACCORDANCE WITH NO. 1 ABOVE.
  6. CONTROLLING OFF-SITE EROSION. PROPERTIES AND WATERWAYS DOWNSTREAM FROM THE DEVELOPMENT SITES SHALL BE PROTECTED FROM EROSION DUE TO INCREASES IN THE VOLUME, VELOCITY, AND PEAK FLOW RATE OF STORMWATER RUNOFF FROM THE PROJECT SITE.
  7. STABILIZATION OF TEMPORARY CONVEYANCE CHANNELS & OUTLETS. ALL TEMPORARY ON-SITE CONVEYANCE CHANNELS SHALL BE DESIGNED, CONSTRUCTED AND STABILIZED TO PREVENT EROSION FROM THE EXPECTED VELOCITY OF FLOW FROM A 2-YEAR, 24-HOUR FREQUENCY STORM FOR THE DEVELOPED CONDITION. STABILIZATION ADEQUATE TO PREVENT EROSION OF OUTLETS, ADJACENT STREAM BANKS, SLOPES AND DOWNSTREAM REACHES SHALL BE PROVIDED AT THE OUTLETS OF ALL CONVEYANCE SYSTEMS.
  8. STORM DRAIN INLET PROTECTION. ALL STORM DRAIN INLETS MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT STORMWATER RUNOFF SHALL NOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
  9. UNDERGROUND UTILITY CONSTRUCTION. THE CONSTRUCTION OF UNDERGROUND UTILITY LINES SHALL BE SUBJECT TO THE FOLLOWING CRITERIA: WHERE FEASIBLE, 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 TRENCHES; AND TRENCH DEWATERING DEVICES SHALL DISCHARGE INTO A SEDIMENT TRAP OR SEDIMENT POND.
  10. CONSTRUCTION ACCESS ROUTES. WHEREVER CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED ROADS, PROVISIONS MUST BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT (MUD) ONTO THE PAVED ROAD. IF SEDIMENT IS TRANSPORTED ONTO A ROAD SURFACE, THE ROADS SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY; SEDIMENT SHALL BE REMOVED FROM ROADS BY SHOVELING OR SWEEPING AND BE TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.
  11. REMOVAL OF TEMPORARY BMP'S. ALL TEMPORARY EROSION AND SEDIMENT CONTROL BMP'S SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER TEMPORARY BMP'S ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON SITE. DISTURBED SOIL AREAS RESULTING FROM REMOVAL SHALL BE PERMANENTLY STABILIZED.
  12. DEWATERING CONSTRUCTION SITES. DEWATERING DEVICES SHALL DISCHARGE INTO A SEDIMENT TRAP OR SEDIMENT POND.
  13. CONTROL OF POLLUTANTS OTHER THAN SEDIMENT ON CONSTRUCTION SITES. ALL POLLUTANTS OTHER THAN SEDIMENT THAT OCCUR ON-SITE DURING CONSTRUCTION SHALL BE HANDLED AND DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORMWATER.
  14. MAINTENANCE. ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL BMP'S SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION.
  15. FINANCIAL LIABILITY. PERFORMANCE BONDING, OR OTHER APPROPRIATE FINANCIAL INSTRUMENTS, SHALL BE REQUIRED FOR ALL PROJECTS TO ENSURE COMPLIANCE WITH THE APPROVED TESC PLAN.

DRAWN BY AD DATE 3/15/2010  
CHECKED BY RL DATE 3/15/2010

**1951 MAIN ST**

JOB # 8051 FOR: TIM MCCULLOCH



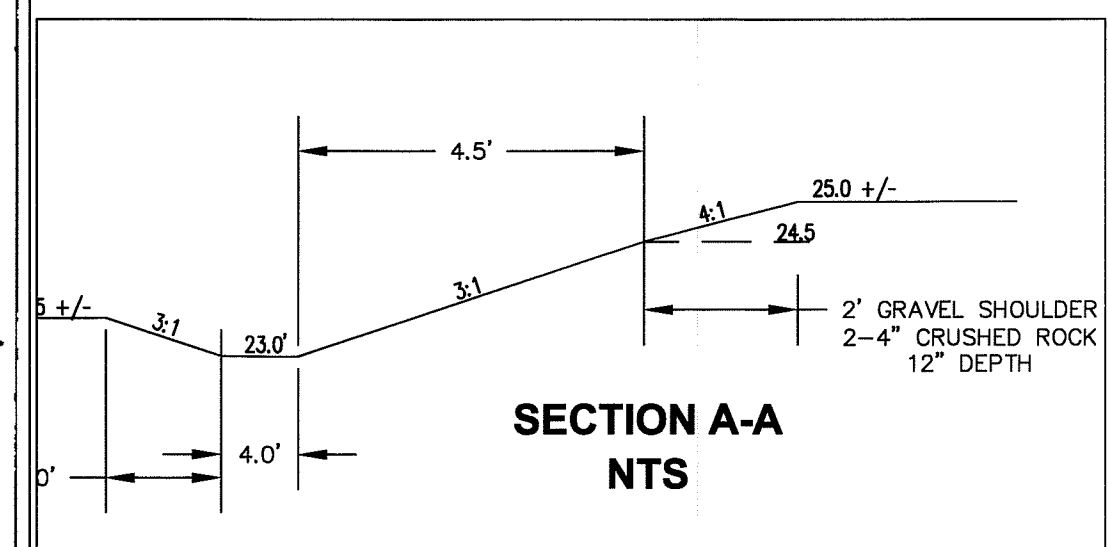
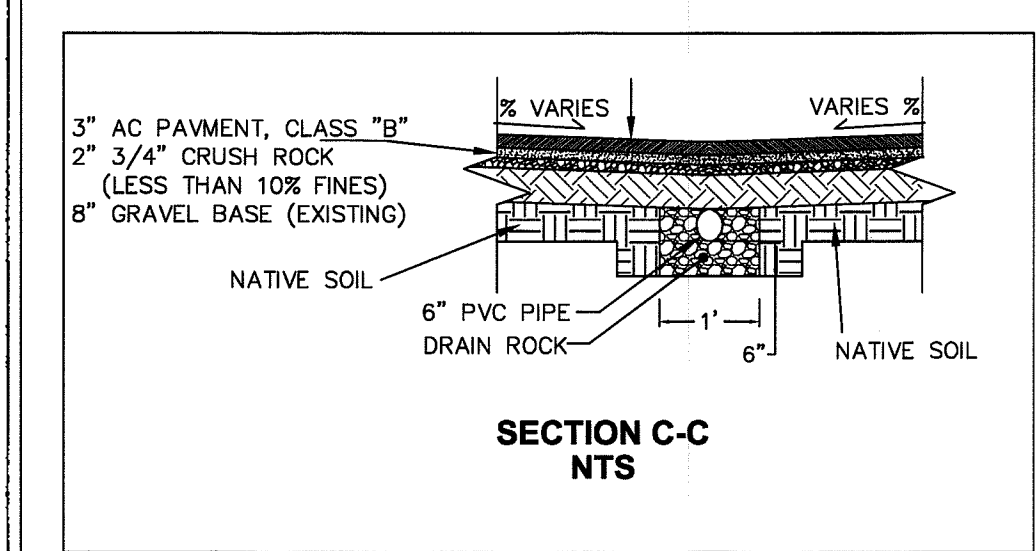
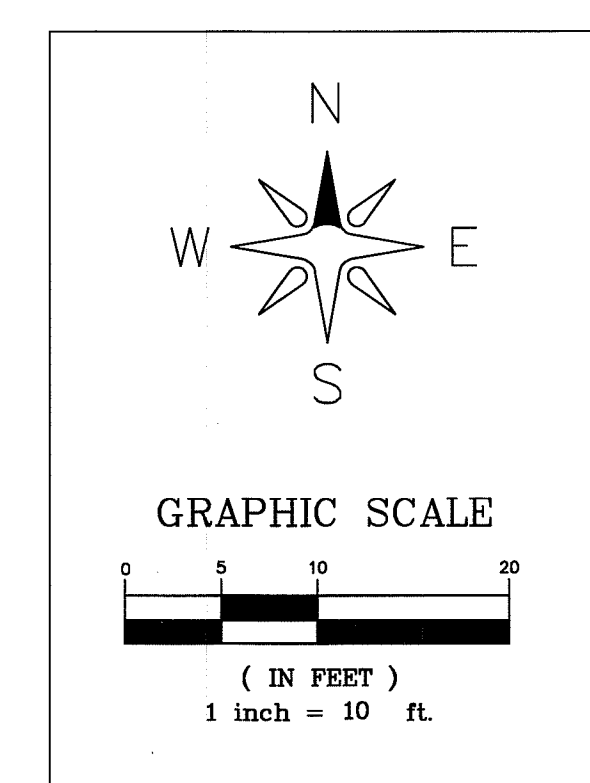
**LDES, INC.**  
5160 INDUSTRIAL PL #108  
FERNDAL, WA 98248  
PHONE 360-383-0620  
FAX 360-383-0639

**1951 MAIN ST**  
**TEMPORARY EROSION**  
**CONTROL PLAN**  
**AS-BUILT DRAWINGS**

REVISIONS - INITIALS/DATE/COMMENTS		
AD	3/6/2010	SUBMITTAL #1
AD	3/15/2010	REVISIONS PER C.O.F. REDLINES

SHEET  
**03**  
OF  
06

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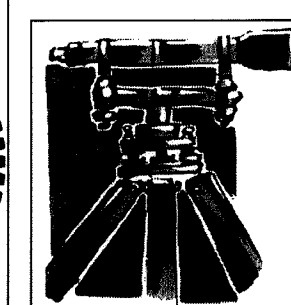


APPROVED

MAR 24 2018

BY J. M. [Signature]

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**1951 MAIN ST**  
**GRADING PLAN**  
**AS-BUILT DRAWINGS**

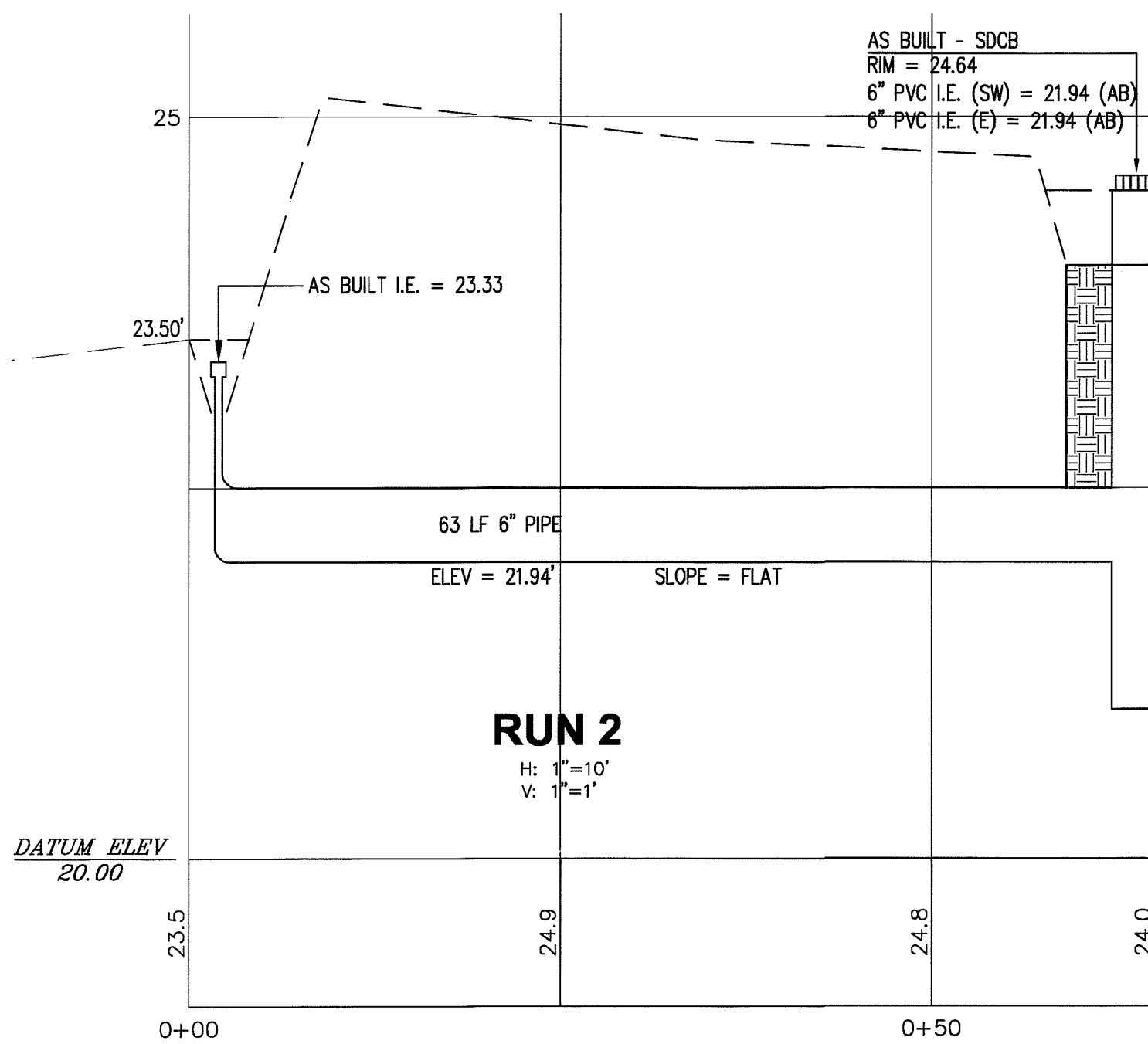
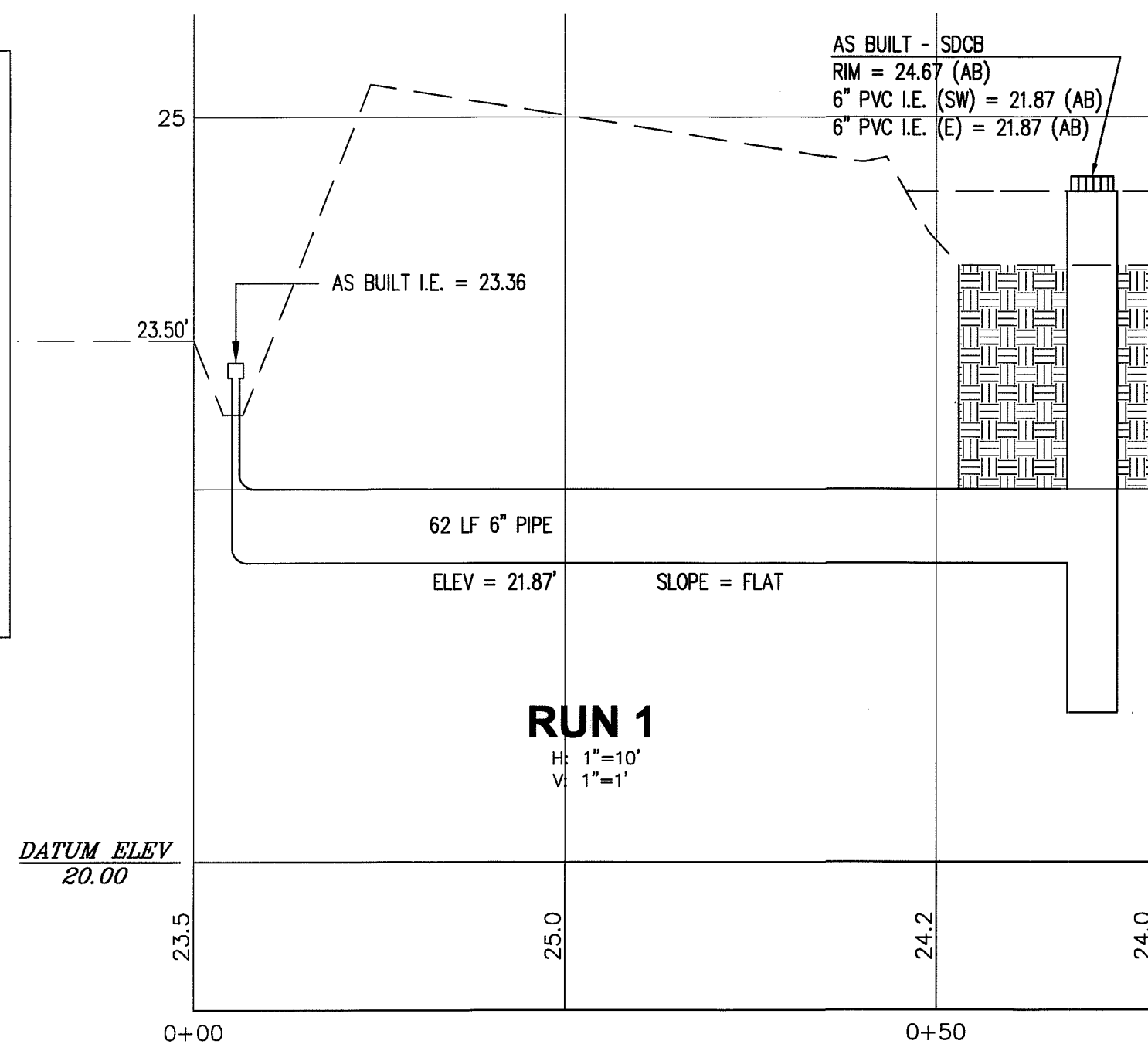
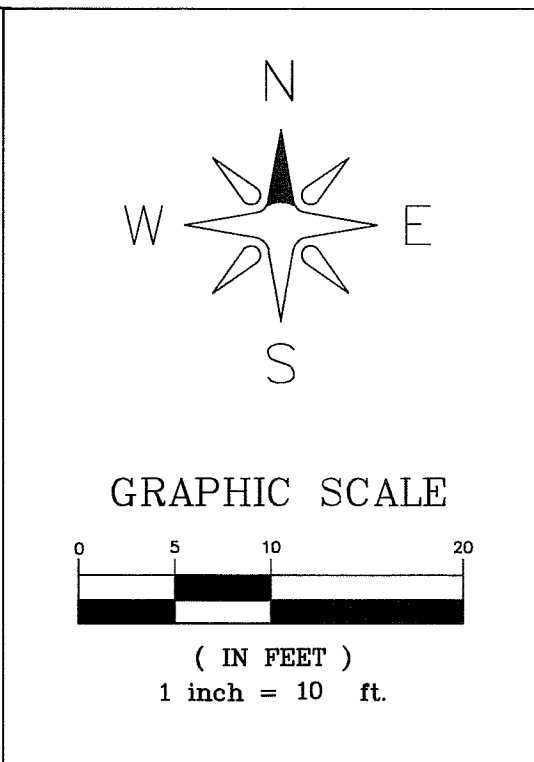
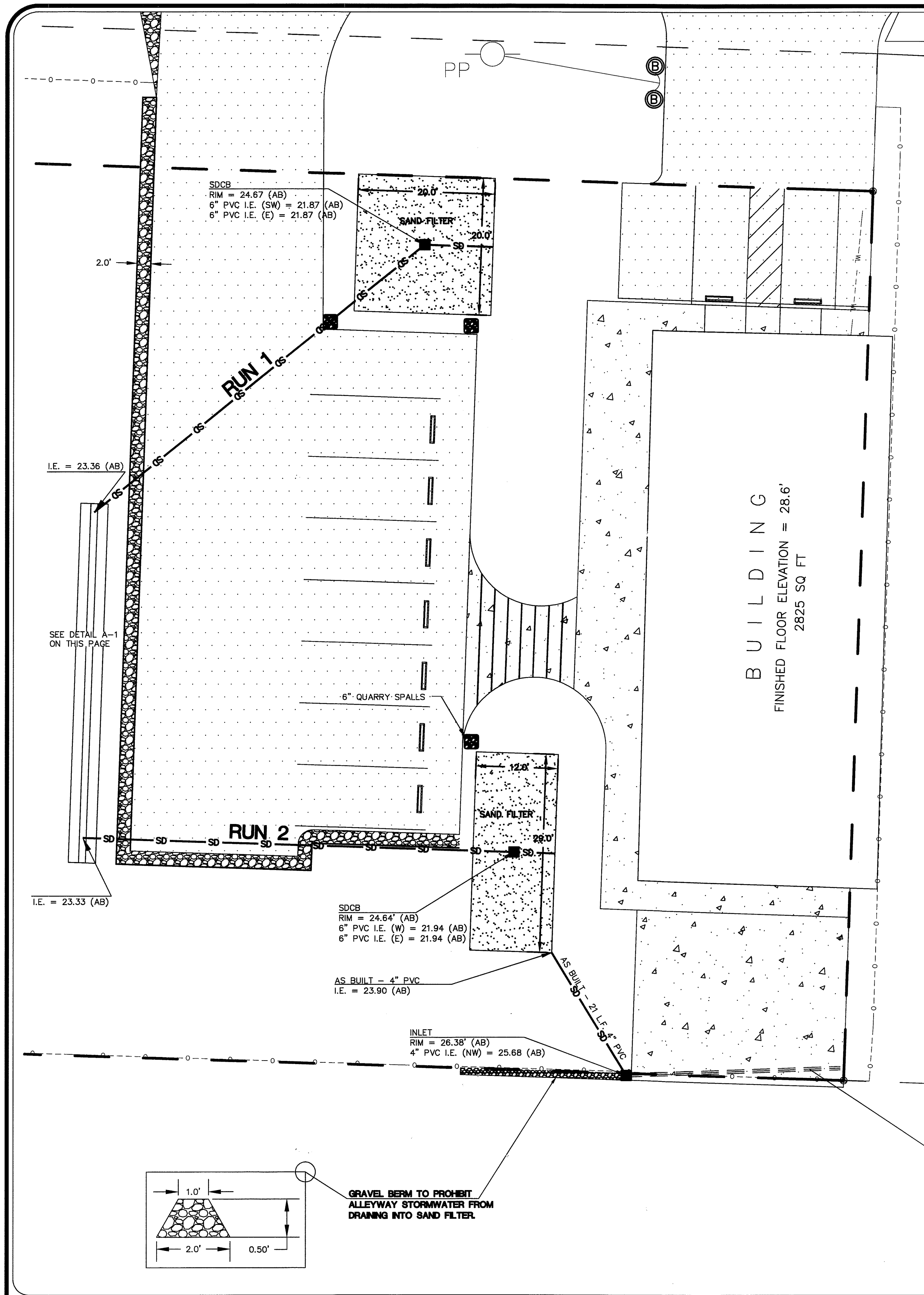
<b><u>REVISIONS - INITIALS/DATE/COMMENTS</u></b>			
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AD	3/15/2010	REVISIONS PER C.O.F. REDLINES	

SHEET 2

04

OF **06**





**6" RISER SECTION**  
USED FOR SHORT ADJUSTMENT.  
2x4x8" SOLID BRICK MAY BE  
USED FOR FINAL ADJUSTMENT  
TO A MAXIMUM LIFT OF 6".

**12" RISER SECTION**

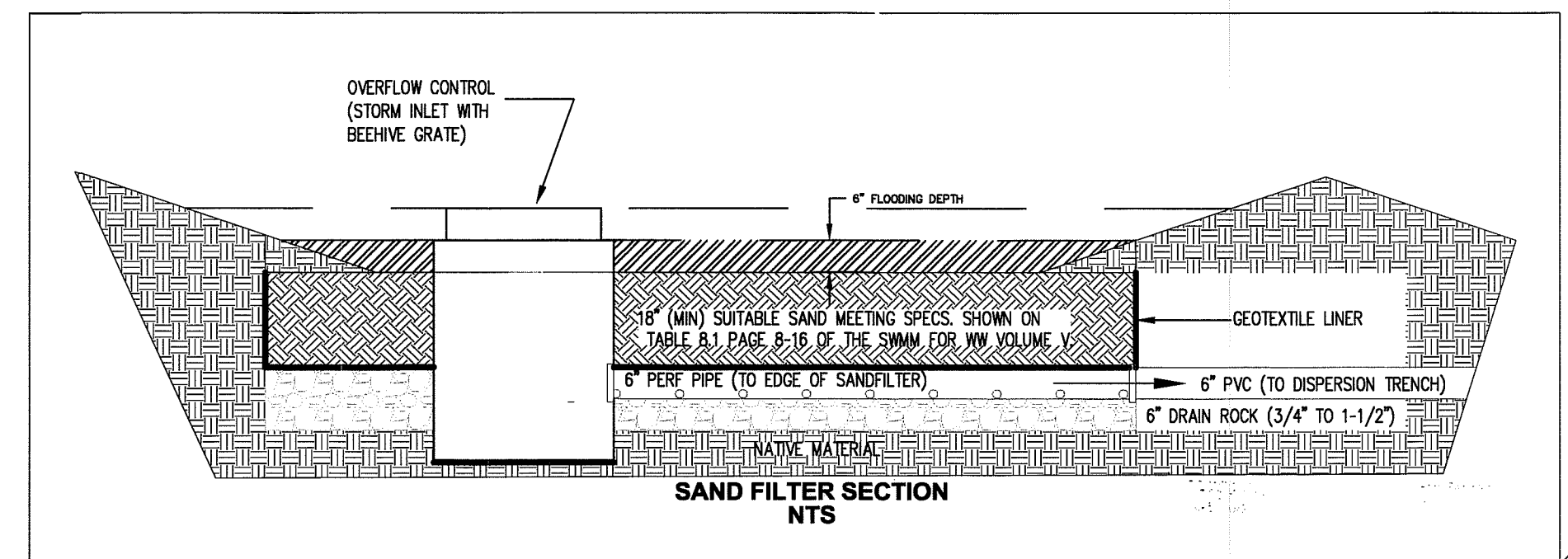
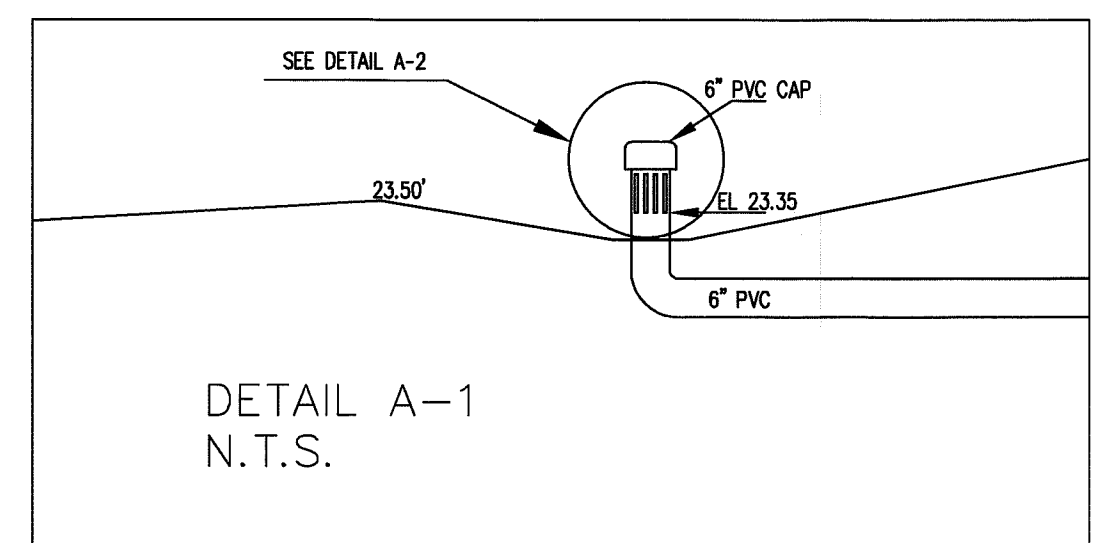
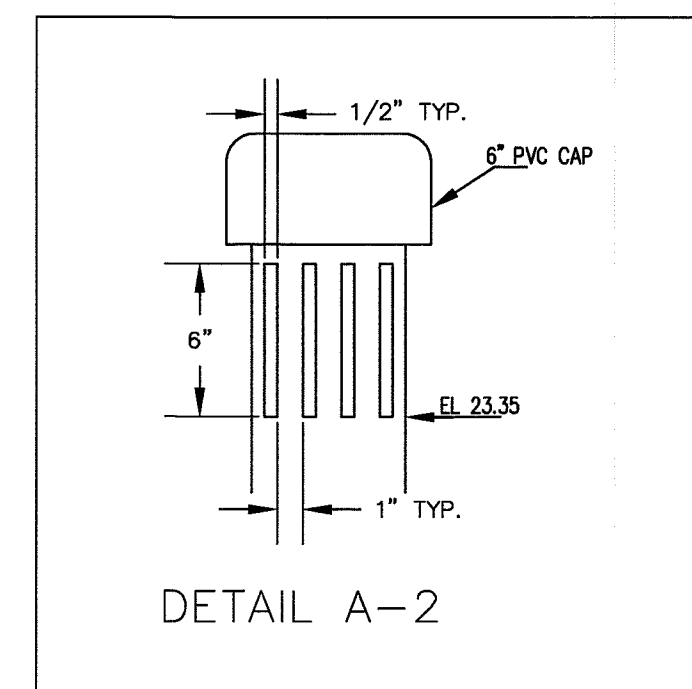
**PRECAST BASE SECTION**  
4-WAY 18" THRU 20" (NOMINAL) KNOCKOUTS.  
PIPE SIZE AND PIPE ENTRANCE ANGLE  
TO BE LIMITED BY KNOCKOUTS. MAXIMUM  
PIPE SIZE = 15" DIAMETER ON WIDE SIDE  
AND 12" DIAMETER ON NARROW SIDE.

**NOTES:**  
1) CAST IN PLACE OR MASONRY CONSTRUCTION UNITS MAY BE SUBSTITUTED  
AS PER A.P.W.A. STANDARDS OR STATE STANDARDS. (B-1)  
2) FOR DETAILS OF REINFORCEMENTS AND INSTALLATION, SEE A.P.W.A. STANDARDS  
OR STATE STANDARDS.

APPROVED: *John & Elmer*  
Public Works Director Date: JUNE 1995

CITY OF FERNDAL  
CATCH BASIN TYPE I

DRAWING  
ST-1

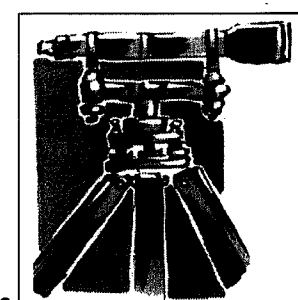
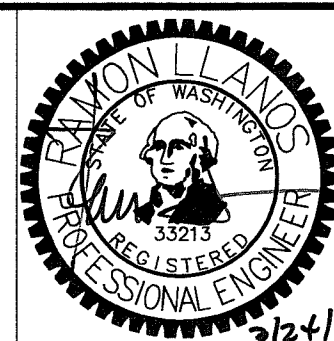


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1951 MAIN ST

JOB # 8051

FOR: TIM MCCULLOCH



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FERNDAL, WA 98248  
PHONE 360-383-0620  
FAX 360-383-0639

1951 MAIN ST  
STORM DRAINAGE  
PLAN AND PROFILE  
AS-BUILT DRAWINGS

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**05**  
OF  
06

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