

00534.001 12/26/12 SH

00534.001

	= PROPOSED MON PER COF DRW S-1
	= FND BRASS MON
	= FND ALUMINUM CAP MON
	= FND CONC MON
	= FND P.I. MON
	= FND REBAR AND CAP
	= FND IRON PIPE
	= FND HUB AND TACK
	= FND PK NAIL
	= FND PK NAIL AND TAG/SHINER
	= FND RR SPIKE
	= RECORD DATA PER DEED
	= RECORD DATA PER PLAT
	= EXIST SD CATCH BASIN (TYPE 1)
	= EXIST SD CATCH BASIN (TYPE 2)
	= EXISTING SD MANHOLE (TYPE 1) (SOLID TOP)
	= EXISTING SD MANHOLE (TYPE 2) (SOLID TOP)
	= EXIST SD INLET
	= EXIST SD AREA DRAIN
	= EXIST SD CLEANOUT
	= EXIST SD CONTROL STRUCTURE
	= EXIST SD WIER
	= EXIST SD SERVICE
	= PROPOSED STORM DRAIN SERVICE
	= PROPOSED STORM DRAIN CLEANOUT
	= PROPOSED STORM DRAIN CATCH BASIN
	= PROPOSED STORM DRAIN MANHOLE (TYPE 2)
	= PROPOSED STORM DRAIN VAULT
	= EXIST SANITARY SEWER MANHOLE
	= EXIST SANITARY SEWER CLEANOUT
	= EXIST SANITARY SEWER SERVICE
	= PROPOSED SANITARY SEWER SERVICE
	= PROPOSED SEWER CLEANOUT
	= PROPOSED SEWER MANHOLE
	= EXISTING WATER SERVICE CONNECT
	= EXISTING FIRE STAND PIPE
	= EXISTING FIRE HOSE CONNECTION
	= EXISTING WATER BLOW-OFF VALVE
	= EXISTING WATER METER BOX
	= EXISTING WATER VALVE
	= EXISTING FIRE HYDRANT
	= EXIST WATER VALVE BOXES
	= PROPOSED WATER SERVICE
	= PROPOSED WATER VALVE
	= PROPOSED FIRE HYDRANT
	= PROPOSED POST INDICATOR VALVE
	= PROPOSED FIRE DEPT. CONNECTION
	= PROPOSED IRRIGATION VALVE BOX
	= EXIST POWER/AND OR UTILITY POLE
	= EXIST GUY POLE
	= EXIST GUY WIRE
	= EXIST POWER METER/STRUCTURE
	= EXIST POWER VAULT
	= EXIST POWER JBOX/HANDHOLD
	= EXIST LIGHT POLE & BOX
	= EXIST UTILITY POLE
	= EXIST TV BOX
	= EXIST TELEPHONE PEDESTAL
	= EXIST TELEPHONE MANHOLE
	= EXIST MAIL BOX
	= EXIST SIGN
	= EXIST FLAG POLE
	= EXIST LANDSCAPING
	= EXIST VEGETATION LINE
	= SOLL TEST PIT & ELEVATION
	= GAS METER

- == F0 == F0 == F0 == EXIST FIBER OPTIC LINE  
 == CP == CP == CP == EXIST OVERHEAD POWER  
 == F == F == F == EXIST UNDERGROUND POWER  
 == OT == OT == OT == EXIST OVERHEAD PHONE  
 == T == T == T == EXIST UNDERGROUND PHONE  
 == TV == TV == TV == EXIST OVERHEAD UTILITES (UNKNOWN)  
 == TV == TV == TV == EXIST UNDERGROUND TV CABLE  
 == G == G == G == EXIST GAS MAIN  
 == W == W == W == EXIST WATER LINE  
 == WL == WL == WL == EXIST WATER LINE  
 == S == S == S == EXIST SANITARY SEWER LINE  
 == SS == SS == SS == EXIST SANITARY SEWER LINE  
 == D == D == D == EXIST STORM DRAIN LINE  
 == D == D == D == EXIST STORM DRAIN LINE  
 == 0 == 0 == 0 == EXIST CHAIN LINK FENCE  
 == X == X == X == PROPOSED CHAIN LINK FENCE  
 == X == X == X == EXIST FENCE  
 == X == X == X == PROPOSED FENCE  
 == □ == □ == □ == EXIST WOOD POST FENCE  
 == □ == □ == □ == PROPOSED WOOD POST FENCE  
 == □ == □ == □ == EXIST FENCE TYPE:  
 == □ == □ == □ == EXIST FENCE TYPE:  
 == 10 == 10 == 10 == EXIST CONC. FENCE OR RET. WALL  
 == 11 == 11 == 11 == EXIST CONTOUR (INDEX)  
 == 11 == 11 == 11 == EXIST CONTOUR (NORMAL)  
 == SD == SD == SD == PROPOSED STORM DRAIN LINE  
 == SS == SS == SS == PROPOSED SAN. SEWER LINE  
 == W == W == W == PROPOSED WATER LINE  
 == G == G == G == PROPOSED GAS LINE  
 == RIP == RIP == RIP == PROPOSED RIP-RAP  
 == ROOF == ROOF == ROOF == PROPOSED ROOF/BULD. DRAIN  
 == GEN == GEN == GEN == PROPOSED GENERATOR  
 == TRANS == TRANS == TRANS == PROPOSED TRANSFORMER/POWER VAULT  
 == STOP == STOP == STOP == PROPOSED STOP SIGN  
 == DETAIL == DETAIL == DETAIL == DETAIL CALLOUT  
 == SPOT == SPOT == SPOT == PROPOSED SPOT ELEV @ TOP OF SIDEWALK  
 == PAV == PAV == PAV == PROPOSED SPOT ELEV @ TOP OF PAVEMENT  
 == CURB == CURB == CURB == PROPOSED SPOT ELEV @ TOP OF CURB  
 == FIN == FIN == FIN == PROPOSED SPOT ELEV @ TOP OF FINISHED GRADE  
 == FIN == FIN == FIN == PROPOSED SPOT ELEV @ TOP OF FINISHED GRADE  
 == 100.01TP == 100.01TP == 100.01TP == EXIST SPOT ELEV @ TOP OF PAVEMENT  
 == 100.00CF == 100.00CF == 100.00CF == EXIST SPOT ELEV @ EDGE OF PAVEMENT  
 == 100.00SF == 100.00SF == 100.00SF == EXIST SPOT ELEV @ EDGE OF CONC WALK  
 == 100.0 == 100.0 == 100.0 == EXIST SPOT ELEV @ TOP OF GROUND  
 == 100.00CG == 100.00CG == 100.00CG == EXIST SPOT ELEV @ EDGE OF GRAVEL  
 == 100.00FC == 100.00FC == 100.00FC == EXIST SPOT ELEV @ FACE OF CURB  
 == 100.00BW == 100.00BW == 100.00BW == EXIST SPOT ELEV @ TOP BACK OF SIDEWALK  
 == 100.00TW == 100.00TW == 100.00TW == EXIST SPOT ELEV @ TOP OF CONC WALK OR WALL  
 == WET == WET == WET == EXISTING WETLAND  
 == WET == WET == WET == EXISTING WETLAND  
 == WET == WET == WET == EXISTING ROAD EASEMENT BOUNDARY  
 == WET == WET == WET == EXISTING VEGETATIVE BUFFER EASEMENT BOUNDARY  
 == WET == WET == WET == EXISTING STORMWATER POND EASEMENT BOUNDARY  
 == WET == WET == WET == PROPOSED EASEMENT BOUNDARY  
 == WET == WET == WET == PROPOSED WATERMAIN EASEMENT BOUNDARY  
 == POND == POND == POND == PROPOSED POND PLANTING  
 == CONC == CONC == CONC == PROPOSED CONCRETE  
 == GRAVEL == GRAVEL == GRAVEL == PROPOSED GRAVEL  
 == ASPHALT == ASPHALT == ASPHALT == PROPOSED ASPHALT (PARKING)  
 == ASPHALT == ASPHALT == ASPHALT == PROPOSED ASPHALT (TRUCK LANE)

- C1) COVER SHEET
- C2) EXISTING CONDITION
- C3) TEMPORARY EROSION & SEDIMENTATION  
CONTROL PLAN
- C4) TEMPORARY EROSION & SEDIMENTATION  
CONTROL DETAILS
- C5) STORMWATER POLLUTION PREVENTION PLAN
- C6) SITE PLAN
- C7) PAVING, GRADING & DRAINAGE PLAN
- C8) SANITARY SEWER & WATER DISTRIBUTION PLAN
- C9) PAVING & DRAINAGE DETAILS
- C10) PAVING & DRAINAGE DETAILS
- C11) STORMWATER DETAILS
- C12) STORMWATER POND SECTIONS
- C13) SANITARY SEWER DETAILS
- C14) WATER DETAILS
- C15) WATER DETAILS
- C16) GENERAL NOTES
- L1) LANDSCAPE PLANS
- L2) LANDSCAPE PLANS

A.D.	= AVERAGE GRADE DIFFERENCE	K	= VERTICAL CURVE DESIGN VALUE
ADAPT	= ADAPTER	LF	= LINEAR FEET
AF NO.	= AUDITORS FILE NUMBER	LOC	= LOCATION
ALIGN	= ALIGNMENT	LT	= LEFT
APPROX	= APPROXIMATE	MB	= MAIL BOX
BO	= BLOWOFF ASSEMBLY	MJ	= MECHANICAL JOINT
CL	= CENTERLINE	PC	= POINT OF CURVE
COF	= CITY OF FERNDALE	PLNTR	= PLANTER
CONC	= CONCRETE	PT	= POINT OF TANGENCY
CPLG	= COUPLING	PVC	= POLY VINYL CHLORIDE
D.I.	= DUCTILE IRON	P.V.I.	= POINT OF VERTICAL INFLECTION
EG	= EXISTING GRADE	R	= RADIUS
EL, ELEV	= ELEVATION	REQ	= REQUIRED
EP, EOP	= EDGE OF PAVING	RT	= RIGHT
EX, EXST	= EXISTING	RW/ R/W	= RIGHT OF WAY
EXIST	= EXISTING	SSCO	= SANITARY SEWER CLEANOUT
FG	= FINISHED GRADE	SSMH	= SANITARY SEWER MANHOLE
FGE	= FINISHED GRADE ELEVATION	STA	= STATION
FH	= FIRE HYDRANT	TBC	= TOP BACK OF CURB
FF, FFE	= FINISH FLOOR ELEVATION	TP	= TOP OF PAVEMENT
FL	= FLANGE	TR	= TRACT EASEMENT LINE
FLD	= FIELD	TYP	= TYPICAL
HP	= HIGH POINT	UTIL	= UTILITY
IE	= INVERT ELEVATION	WL	= WATER LINE
INV	= INVERT	WLK	= WALKWAY

The map displays the Ferndale area with various streets and landmarks. Key roads include I-75, I-94, and several local streets like FDK Road, Elk Road, and Hillside Road. The project location is highlighted near the intersection of I-75 and I-94. The map also shows the Detroit River and the Belle Isle.

**OWNER**  
SUPER FEET WORLDWIDE, INC.  
1419 WHITEHORN STREET  
FERNDALE, WA 98248  
(360) 384-1820

**CIVIL ENGINEER**  
FREELAND & ASSOCIATES, INC.  
TONY FREELAND, P.E.  
220 W. CHAMPION ST.  
BELLINGHAM, WA 98225  
(360) 650-1408

**SURVEYOR**  
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CONSTRUCTION SURVEYORS NW  
1500 I STREET  
BELLINGHAM, WA 98225  
(360) 733-3383

**ARCHITECT**  
TERRY BROWN, AIA  
ZERVAS GROUP  
209 PROSPECT STREET  
BELLINGHAM, WA 98225  
(360) 734-4744

**CONTRACTOR**  
DAN COLACURCIO  
COLACURCIO BROTHERS  
3287 H STREET ROAD  
BLAINE, WA 98230  
(360) 332-4044

**CESCL**  
MIKE BRATT, P.E.  
FREELAND & ASSOCIATES  
220 W. CHAMPION STREET  
BELLINGHAM, WA 98225  
(360) 650-1408

APPROVED

DEC 24 2012


BY J. M. J. P.E.

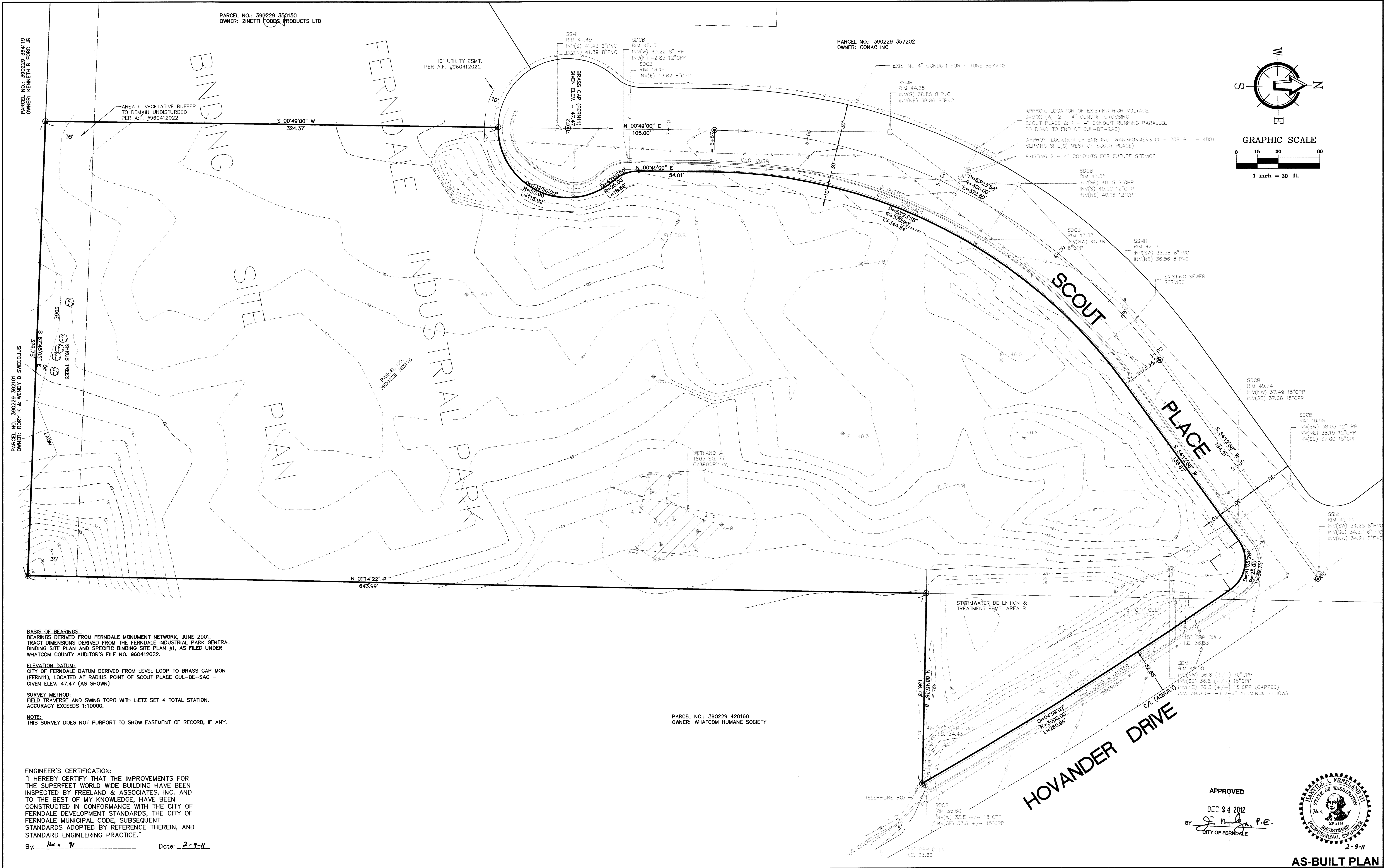
CITY OF FERRISDALE



ENGINEER'S CERTIFICATION:  
 "I HEREBY CERTIFY THAT THE IMPROVEMENTS FOR  
 THE SUPERFEET WORLD WIDE BUILDING HAVE BEEN  
 INSPECTED BY FREELAND & ASSOCIATES, 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 ENGINEERING PRACTICE."

By: *Wesley A. Gault* Date: 2-9

<b>AS-BUILT PLANS</b>		09097ASB3.DWG	
	220 W. Champion Street, Suite 290 Bellingham, WA 98225	t: 360.650.1408 f: 360.650.1401	DATE: <b>01-26-11</b> JOB #: <b>09097</b> SHEET: <b>C1</b>
	<b>F R E E L A N D</b> & A S S O C I A T E S		



**BASIS OF BEARINGS:**  
BEARINGS DERIVED FROM FERDALE MONUMENT NETWORK, JUNE 2001.  
TRACT DIMENSIONS DERIVED FROM THE FERDALE INDUSTRIAL PARK GENERAL  
BINDING SITE PLAN AND SPECIFIC BINDING SITE PLAN #1, AS FILED UNDER  
WHATCOM COUNTY AUDITOR'S FILE NO. 960412022.

**ELEVATION DATUM:**  
CITY OF FERDALE DATUM DERIVED FROM LEVEL LOOP TO BRASS CAP MON  
(FERN1), LOCATED AT RADIUS POINT OF SCOUT PLACE CUL-DE-SAC -  
GIVEN ELEV. 47.47 (AS SHOWN).

**SURVEY METHOD:**  
FIELD TRAVERSE AND SWING TOPO WITH LIETZ SET 4 TOTAL STATION.  
ACCURACY EXCEEDS 1:10000.

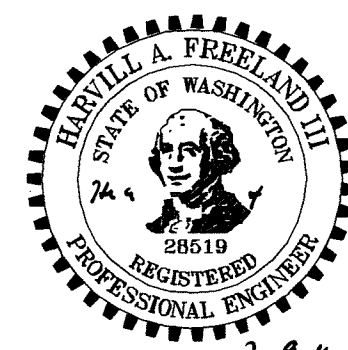
**NOTE:**  
THIS SURVEY DOES NOT PURPORT TO SHOW EASEMENT OF RECORD, IF ANY.

**ENGINEER'S CERTIFICATION:**  
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TO THE BEST OF MY KNOWLEDGE, HAVE BEEN  
CONSTRUCTED IN CONFORMANCE WITH THE CITY OF  
FERDALE DEVELOPMENT STANDARDS, THE CITY OF  
FERDALE MUNICIPAL CODE, SUBSEQUENT  
STANDARDS ADOPTED BY REFERENCE THEREIN, AND  
STANDARD ENGINEERING PRACTICE."

By: Tim A. Freeland Date: 2-9-11

PARCEL NO.: 390229 420160  
OWNER: WHATCOM HUMANE SOCIETY

APPROVED  
DEC 24 2012  
BY: Tim A. Freeland P.E.  
CITY OF FERDALE



AS-BUILT PLAN

CALL BEFORE YOU DIG  
FOR BURIED UTILITY LOCATIONS  
1-800-424-5555

No.	Date	REVISION	By

DESIGNED BY:  
HAF / JPS  
DRAWN BY:  
JPS  
CHECKED BY:  
HAF



220 West Champion Street, Suite 290  
Bellingham, WA 98225  
t: 360.650.1408  
f: 360.650.1401  
**FREELAND & ASSOCIATES**

CLIENT:  
PROJECT LOCATION:

**SUPER FEET WORLD WIDE, INC**  
1419 WHITEHORN STREET  
FERDALE, WA 98248  
FERDALE INDUSTRIAL PARK  
1820 SCOUT PLACE  
FERDALE, WA 98248

SHEET CONTENTS:

EXISTING CONDITION

DWG #: 09097ASB3.DWG  
JOB #: 09097  
SCALE: H:1" = 30' V:n/a

DATE: 01-26-11  
SHEET: C2



# EROSION CONTROL LEGEND

- VEG WSDOE BMP C101 PRESERVING NATURAL VEGETATION
- CE WSDOE BMP C105 STABILIZED CONSTRUCTION ENTRANCE
- PS WSDOE BMP C120 TEMPORARY AND PERMANENT SEEDING
- MU WSDOE BMP C121 MULCHING
- CD WSDOE BMP C207 CHECK DAMS
- IP WSDOE BMP C220 STORM DRAIN INLET PROTECTION
- SF WSDOE BMP C233 SILT FENCE
- CL CLEARING LIMITS/WORK LIMITS
- OC ORANGE CONSTRUCTION FENCE
- SP WSDOE BMP C241 SEDIMENT POND

# TEMPORARY EROSION/SEDIMENTATION CONTROL

- A COPY OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- APPROVAL OF THESE TEMPORARY EROSION/SEDIMENTATION CONTROL (TESC) PLANS DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
- THE IMPLEMENTATION OF THESE TESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE TESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
- THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
- THE TESC FACILITIES SHOWN ON THE PLANS MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS.
- THE TESC FACILITIES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE TESC FACILITIES SHALL BE UPGRADED (E.G., ADDITIONAL SUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.) AS NEEDED FOR UNEXPECTED STORM EVENTS.
- THE TESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
- ANY AREA STRIPPED OF VEGETATION, INCLUDING ROADWAY EMBANKMENTS, WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF 7 DAYS, SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED TESC METHODS (E.G., SEEDING, MULCHING, NETTING, EROSION BLANKETS, ETC.).
- ANY AREA NEEDING TESC MEASURES, NOT REQUIRING IMMEDIATE ATTENTION, SHALL BE ADDRESSED WITHIN FIFTEEN (15) DAYS.
- THE TESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 24 HOURS FOLLOWING A STORM EVENT.
- AT NO TIME SHALL MORE THAN SIX INCHES OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSLOPE SYSTEM.
- ADDITIONAL MEASURES, SUCH AS WASH PADS OR STABILIZED CONSTRUCTION ENTRANCES, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- DURING THE TIME PERIOD OF OCTOBER 1 THROUGH APRIL 30, ALL PROJECT DISTURBED AREAS GREATER THAN 5,000 SQUARE FEET, THAT ARE TO BE LEFT UNWORKED FOR MORE THAN 12 HOURS, SHALL BE COVERED BY ONE OF THE FOLLOWING COVER MEASURES: MULCH, SODDING OR PLASTIC COVERING.
- WHERE SEEDING FOR TEMPORARY EROSION CONTROL IS REQUIRED, FAST GERMINATING GRASSES SHALL BE APPLIED AT AN APPROPRIATE RATE (E.G. ANNUAL OR PERENNIAL RYE APPLIED AT APPROXIMATELY 80 POUNDS PER ACRE).
- WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF FOUR INCHES.
- MULCHING OF ANY TYPE FOR TEMPORARY EROSION CONTROL SHALL BE INSTALLED PER THE RATES AND STANDARDS PRESENTED IN VOL. II, TABLE 4.7 OF THE STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON, 2005 EDITION BY DEPARTMENT OF ECOLOGY.
- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH DITY OF FERDALE STANDARDS AND SPECIFICATIONS.
- EROSION/SEDIMENTATION CONTROL FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS IN THESE PLANS. LOCATIONS MAY BE MOVED TO SUIT FIELD CONDITIONS, SUBJECT TO APPROVAL BY THE ENGINEER.

# SILT FENCE NOTES

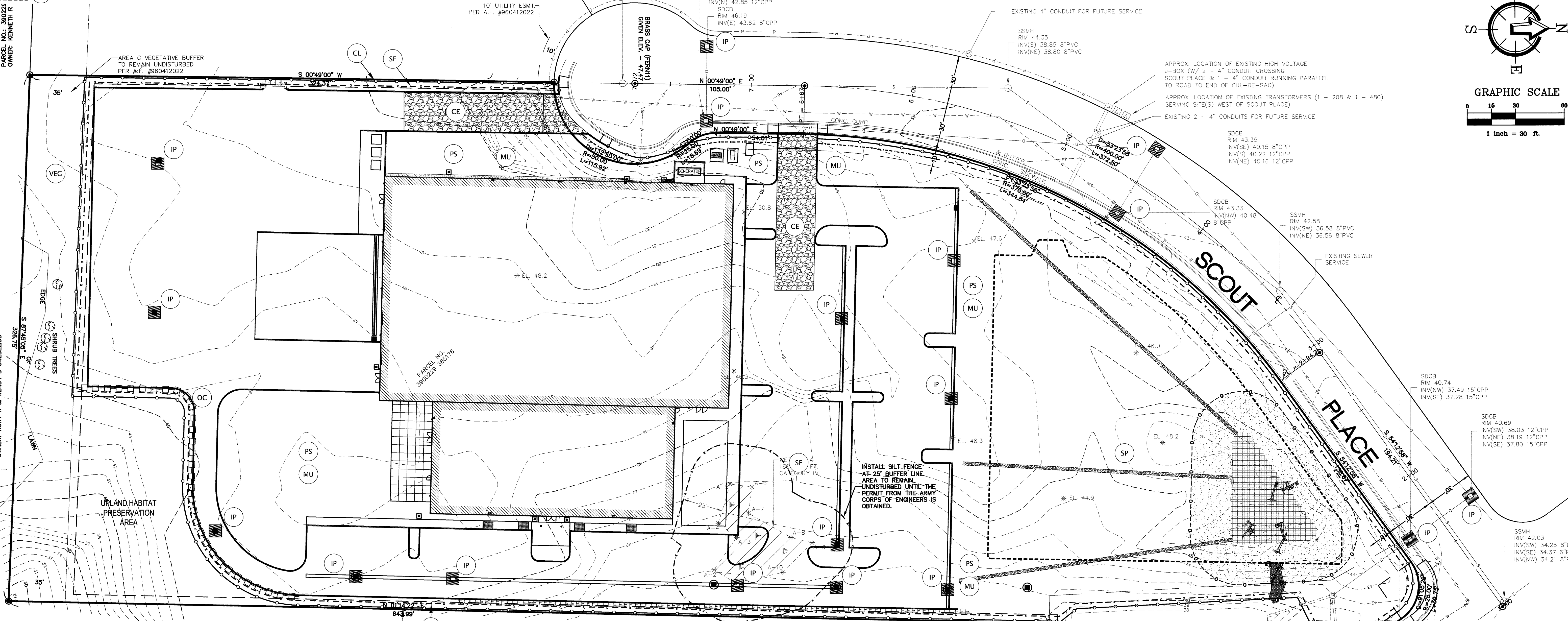
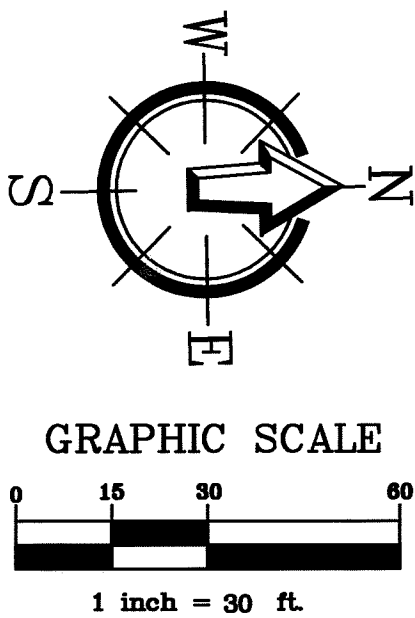
- THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL OUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6-INCH OVERLAP AND BOTH ENDS SECURELY FASTENED TO THE POST.
- THE FILTER FABRIC FENCE SHALL BE INSTALLED TO FOLLOW THE CONTOURS (WHERE FEASIBLE). THE FENCE POSTS SHALL BE SPACED AT A MAXIMUM OF 6 FEET APART AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 30 INCHES).
- A TRENCH SHALL BE EXCAVATED, ROUGHLY 8 INCHES WIDE AND 12 INCHES DEEP, UPSLOPE AND ADJACENT TO THE WOOD POST TO ALLOW THE FILTER FABRIC TO BE BURIED.
- WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 4 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE AND 20 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
- WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF STANDARD NOTE 5 APPLYING.
- THE TRENCH SHALL BE BACKFILLED WITH 3/4-INCH MINIMUM DIAMETER WASHED GRAVEL.
- FILTER FABRIC FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
- FILTER FABRIC FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

PARCEL NO.: 390229 357202  
OWNER: CONAC INC

# SEEDING NOTES

- SEEDBED PREPARATION MAY INCLUDE THE FOLLOWING:
  - IF INFERTILE OR COARSE TEXTURED SUBSOIL WILL BE EXPOSED DURING GRADING, STOCKPILE TOPSOIL AND RE-SPREAD IT OVER THE FINISHED SLOPE AND ROLL IT TO PROVIDE A FIRM BASE.
  - IF CONSTRUCTION FILLS HAVE LEFT SOIL EXPOSED WITH A LOOSE, ROUGH OR IRREGULAR SURFACE, TRACK WALK UP SLOPE.
  - IF CUTS OR CONSTRUCTION EQUIPMENT HAVE LEFT A TIGHTLY COMPACTED SURFACE, BREAK WITH CHISEL PLOW OR OTHER SUITABLE EQUIPMENT.
  - PERFORM ALL CULTURAL OPERATIONS ACROSS OR AT RIGHT ANGLES TO THE SLOPES (CONTOURED). THE SEEDBED SHOULD BE FIRM WITH A FAIRLY FINE SURFACE AFTER ROUGHENING.
- FERTILIZATION - AS PER SUPPLIER'S RECOMMENDATIONS. DEVELOPMENTS ADJACENT TO WATER BODIES MUST USE NON-PHOSPHOROUS FERTILIZER.
- HYDROSEEDING APPLICATIONS WITH APPROVED SEED-MULCH-FERTILIZER MIXTURES MAY ALSO BE USED.
- SEEDING - APPLY APPROPRIATE MIXTURE TO THE PREPARED SEEDBED AT A RATE OF 120 LBS/ACRE. COVER THE SEED WITH TOPSOIL OR MULCH NO DEEPER THAN ONE-HALF INCH.

TEMPORARY EROSION CONTROL SEED MIX	PROPORTIONS BY WEIGHT	PERCENT PURITY	PERCENT GERMINATION
CHEWINGS OR RED FESCUE	40%	98	90
ANNUAL OR PERENNIAL RYE	40%	98	90
REDTOP OR COLONIAL BENTGRASS	10%	92	85
WHITE DUTCH CLOVER	10%	98	90

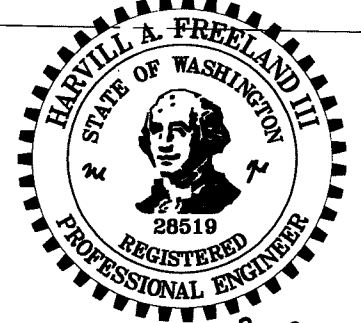


ENGINEER'S CERTIFICATION:  
"I HEREBY CERTIFY THAT THE IMPROVEMENTS FOR THE SUPERFEET WORLD WIDE BUILDING HAVE BEEN INSPECTED BY FREELAND & ASSOCIATES, INC. AND TO THE BEST OF MY KNOWLEDGE, HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE CITY OF FERDALE DEVELOPMENT STANDARDS, THE CITY OF FERDALE MUNICIPAL CODE, SUBSEQUENT STANDARDS ADOPTED BY REFERENCE THEREIN, AND STANDARD ENGINEERING PRACTICE."

By: *[Signature]* Date: 2-11-11

APPROVED

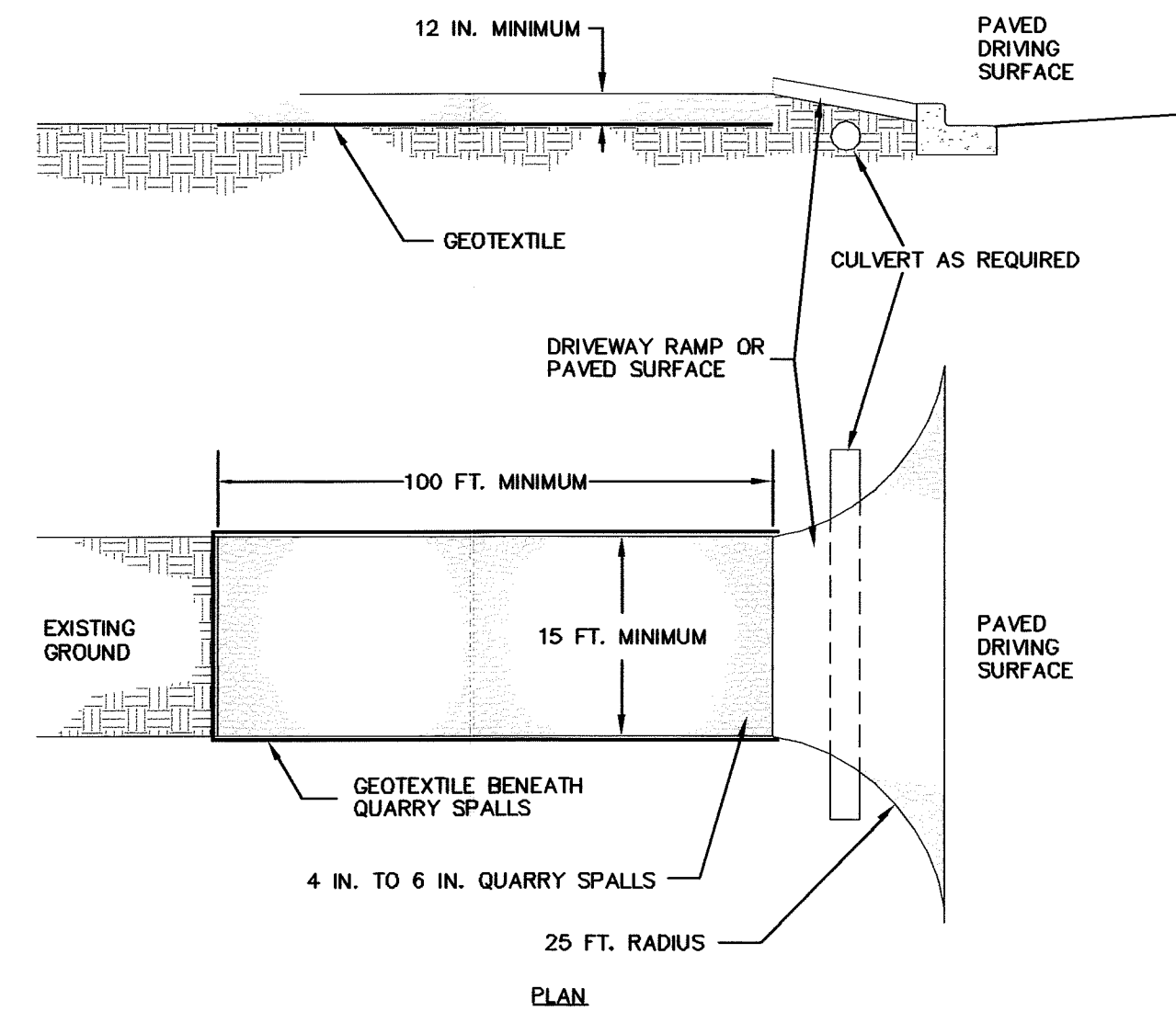
DEC 24 2012  
BY: *[Signature]* P.E.  
CITY OF FERDALE



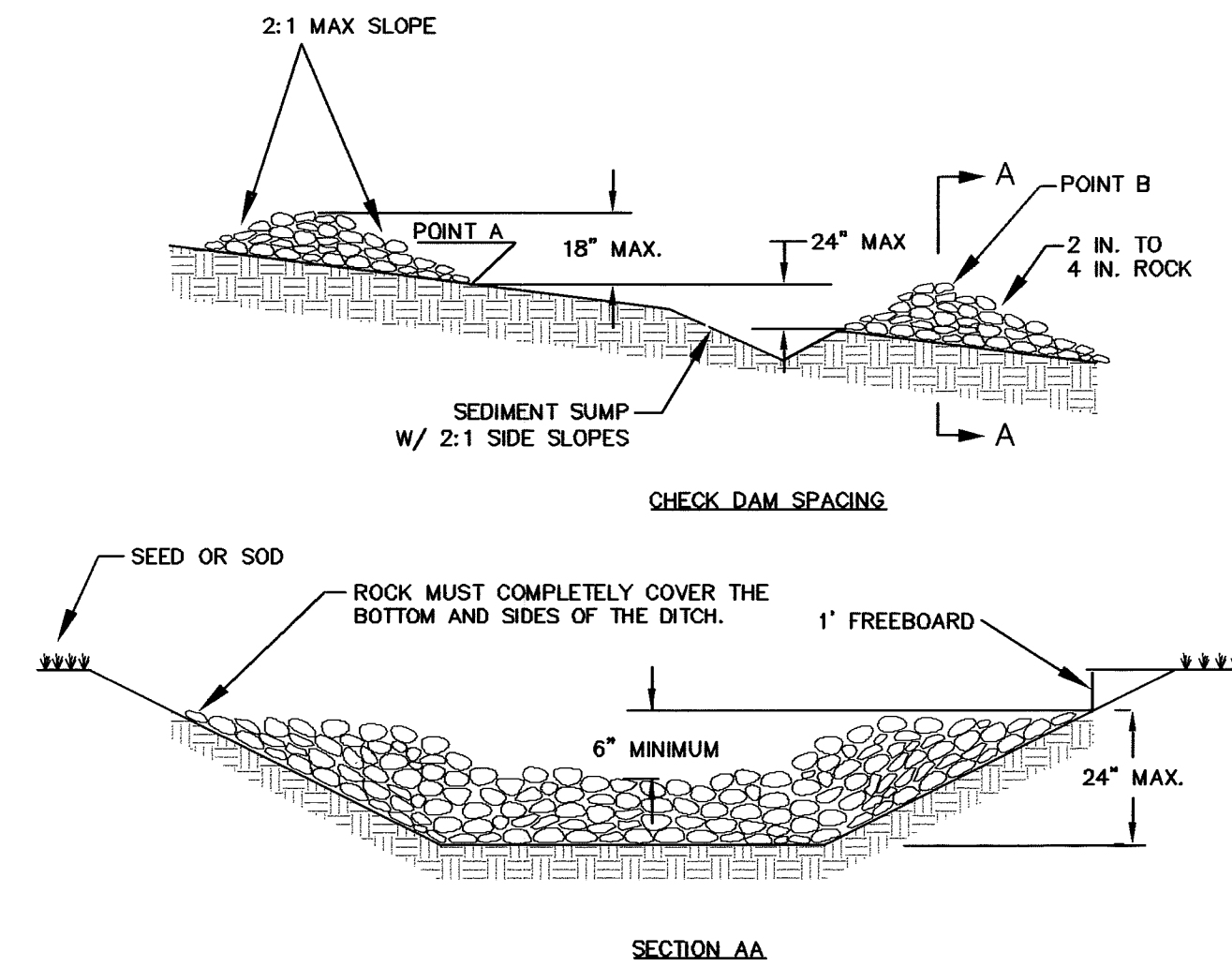
AS-BUILT PLAN

CALL BEFORE YOU DIG FOR BURIED UTILITY LOCATIONS 1-800-424-5555		DESIGNED BY: HAF / JPS DRAWN BY: JPS CHECKED BY: HAF		220 West Champion Street, Suite 290 t: 360.650.1408 Bellingham, WA 98225 f: 360.650.1401 <b>FREELAND &amp; ASSOCIATES</b>		CLIENT: <b>SUPER FEET WORLD WIDE, INC</b> 1419 WHITEHORN STREET FERDALE, WA 98248 PROJECT LOCATION: FERDALE INDUSTRIAL PARK 1820 SCOUT PLACE FERDALE, WA 98248		SHEET CONTENTS: <b>TEMPORARY EROSION &amp; SEDIMENTATION CONTROL PLAN</b>		DWG #: 09097ASB3.DWG JOB #: 09097 SCALE: H: 1" = 30' V: n/a		DATE: 01-26-11 SHEET: <b>C3</b>	
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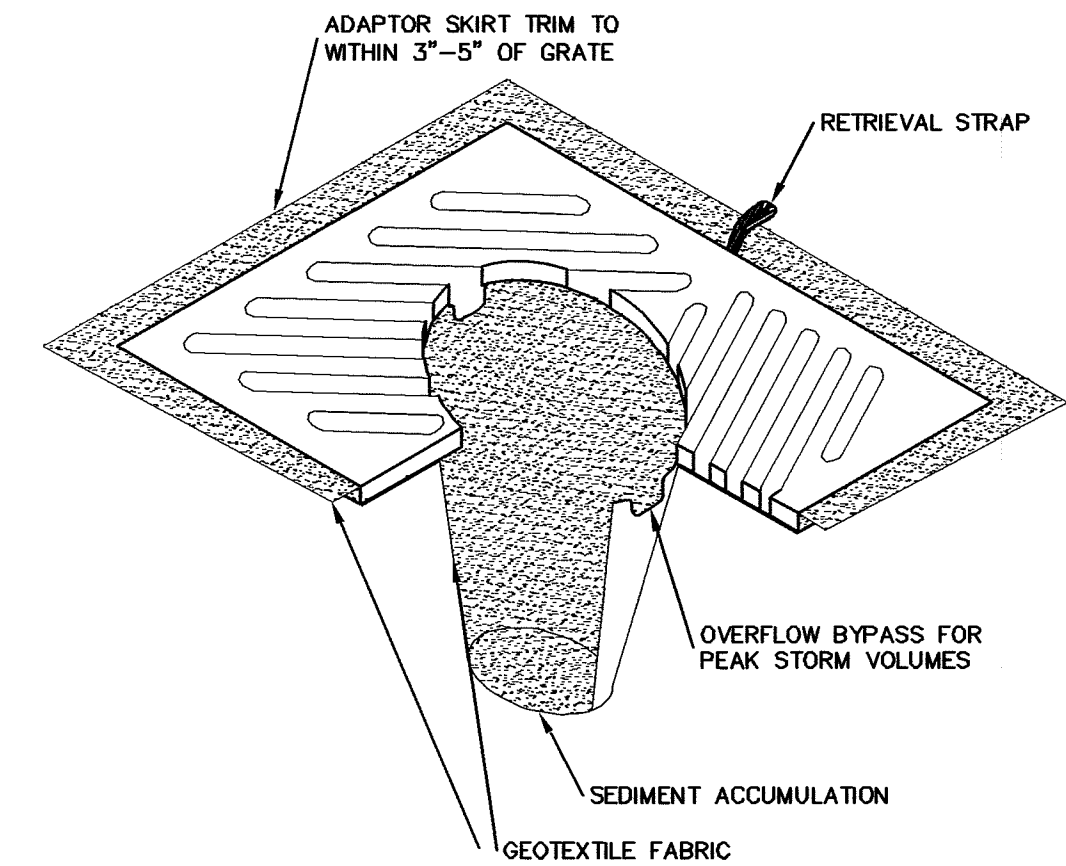




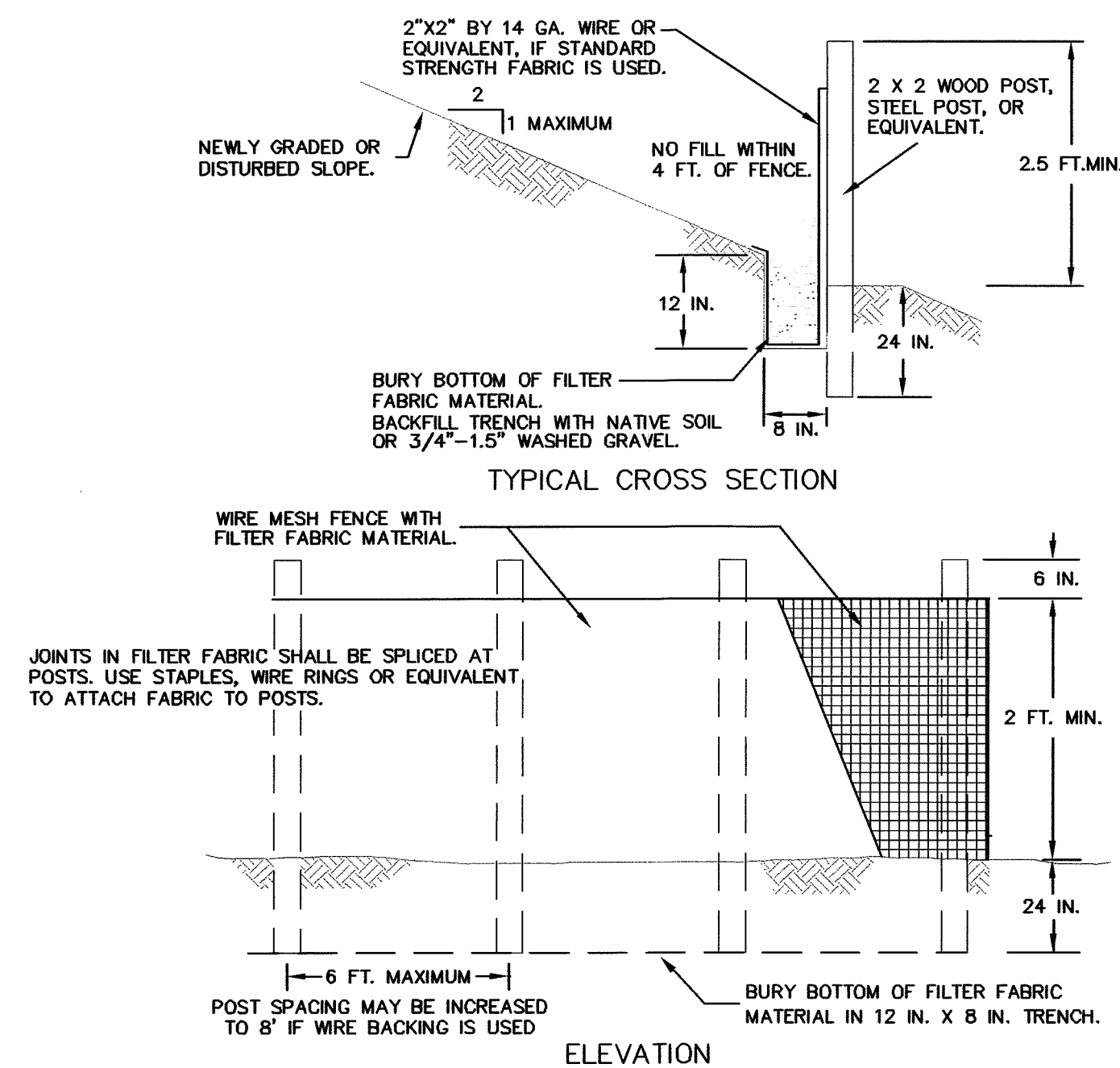
- NOTES:**
1. PAD SHALL BE REMOVED AND REPLACED WHEN SOIL IS EVIDENT ON THE SURFACE OF THE PAD OR AS DIRECTED BY THE CITY.
  2. PAD SHALL BE INSTALLED IN PLANTING STRIP AS APPROPRIATE.
  3. PAD THICKNESS SHALL BE INCREASED IF SOIL CONDITIONS DICTATE OR PER THE DIRECTION OF THE CITY.
  4. MINIMUM DIMENSIONS MAY BE MODIFIED AS REQUIRED BY SITE CONDITIONS UPON APPROVAL OF THE CITY.



- NOTES:**
1. 50 FT MAXIMUM SPACING BETWEEN CHECK DAMS.
  2. ANY SEDIMENT DEPOSITION OF MORE THAN 0.5 FT. IN DEPTH SHALL BE REMOVED SO THAT THE CHANNEL IS RESTORED TO ITS ORIGINAL DESIGN CAPACITY.
  3. THE CHANNEL SHALL BE EXAMINED FOR SIGNS OF SCOURING AND EROSION OF THE BED AND BANKS. IF SCOURING OR EROSION HAS OCCURRED, AFFECTED AREAS SHALL BE PROTECTED BY RIP-RAP, AN EROSION CONTROL BLANKET, OR A NET.
  4. A 6-INCH SUMP SHALL BE PROVIDED IMMEDIATELY UPSTREAM OF CHECK DAM.
  5. CHECK DAMS SHALL BE CONSTRUCTED SO THAT POINTS A AND B ARE OF EQUAL ELEVATION.
  6. SANDBAG CHECK DAMS MAY BE SUBSTITUTED FOR ROCK CHECK DAMS AS APPROVED BY THE CITY.



- NOTES:
1. INSERT SHALL BE INSTALLED PRIOR TO CLEARING AND GRADING ACTIVITY, OR UPON PLACEMENT OF A NEW CATCH BASIN.
  2. SEDIMENT SHALL BE REMOVED FROM THE UNIT WHEN IT BECOMES HALF FULL .
  3. SEDIMENT REMOVAL SHALL BE ACCOMPLISHED BY REMOVING THE INSERT, EMPTYING, AND RE-INSERTING IT INTO THE CATCH BASIN.



- NOTES:**
1. FENCE SHALL NOT BE INSTALLED ON SLOPES STEEPER THAN 2 : 1.
  2. JOINTS IN FILTER FABRIC SHALL BE OVERLAPPED 6 INCHES AT POST.
  3. USE STAPLES, WIRE RINGS, OR EQUIVALENT TO ATTACH FABRIC TO WIRE FENCE.
  4. REMOVE SEDIMENT WHEN IT REACHES 1/3 FENCE HEIGHT.

**APPROVED**

EC 24 2012

Y J. M. J. P.E.  
CITY OF FERDALE


ENGINEER'S CERTIFICATION:  
"I HEREBY CERTIFY THAT THE IMPROVEMENTS FOR  
THE SUPERFREET WORLD WIDE BUILDING HAVE BEEN  
INSPECTED BY FREELAND & ASSOCIATES, 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 ENGINEERING PRACTICE."

By: Mark A. Galt Date: 2-9-11



## AS-BUILT PLAN

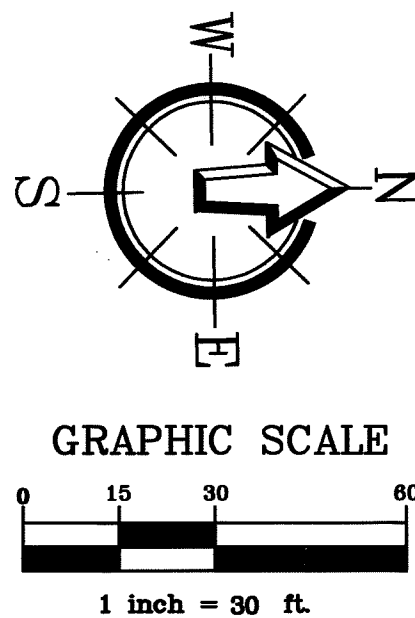
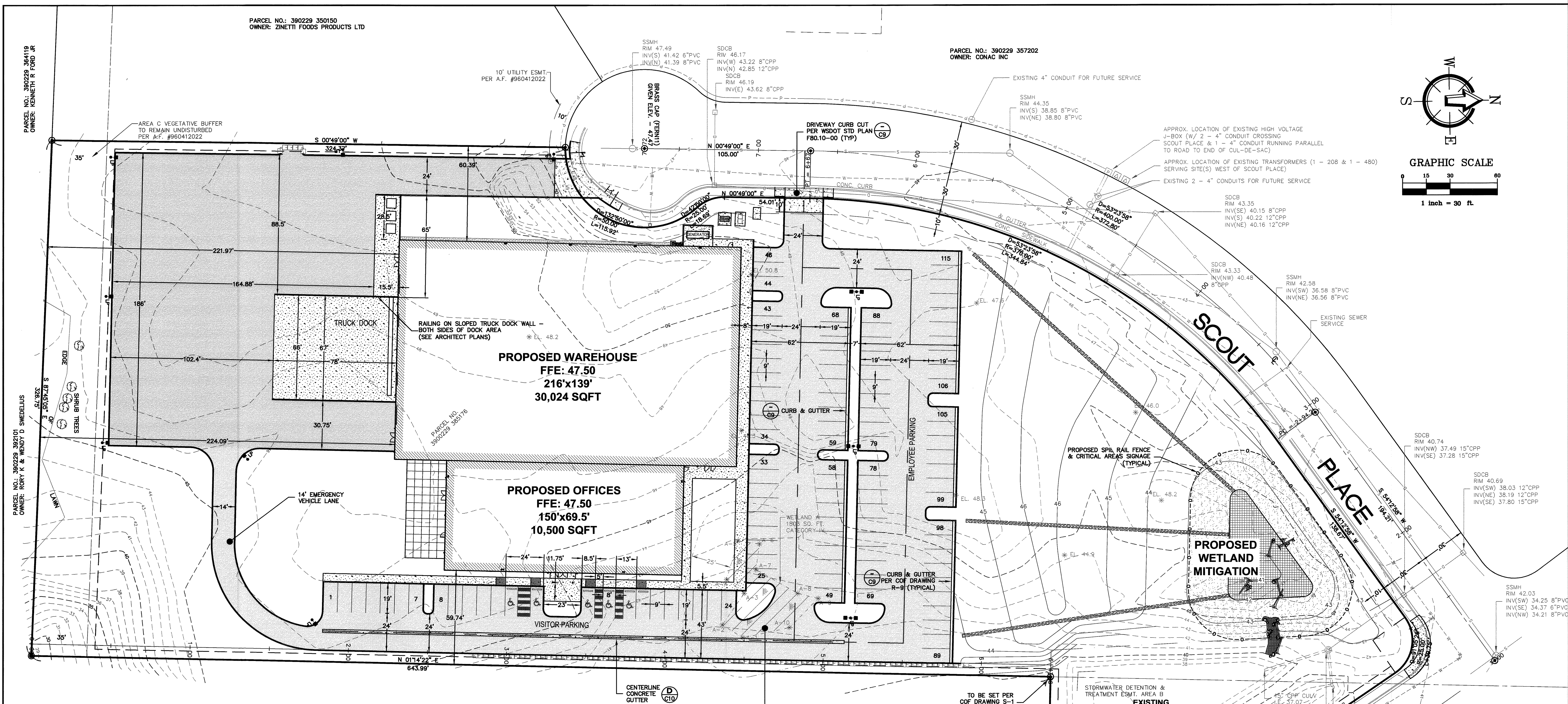
**CALL BEFORE YOU DIG  
FOR BURIED UTILITY LOCATIONS  
1-800-424-5555**

		220 West Champion Street, Suite 290 Bellingham, WA 98225		DESIGNED BY: HAF / JPS			220 West Champion Street, Suite 290 t: 360.650.1408 Bellingham, WA 98225 f: 360.650.1401		CLIENT: SUPER FEET WORLD WIDE, INC		SHEET CONTENTS:  TEMPORARY EROSION & SEDIMENTATION CONTROL DETAILS		DWG #: 09097ASB3.DWG		DATE:	
				DRAWN BY: JPS					1419 WHITEHORN STREET FERDALE, WA 98248				JOB #: 09097		01-26-11	
No.		Date		REVISION			By		CHECKED BY: HAF		PROJECT LOCATION: FERDALE INDUSTRIAL PARK 1820 SCOUT PLACE FERDALE, WA 98248		SCALE:		SHEET:  C4	









PROJECT SUMMARY

LEGAL DESCRIPTION	FERNDAL INDUSTRIAL PARK EXCEPT LOTS 1-3
ASSESSORS PARCEL NUMBER(S)	390229 385176
SITE ADDRESS	1820 SCOUT PLACE
CITY ZONING	GENERAL COMMERCIAL
SITE AREA	5.79 ACRES
LOT COVERAGE	TOTAL: 40,524 SQUARE FEET (16% OF TOTAL LOT AREA)
BUILDING FLOOR GROSS AREA	30,024 S.F. WAREHOUSE 10,500 S.F. OFFICE SPACE
NUMBER OF PARKING SPACES	110 STANDARD 5 ADA
IMPERMEABLE SURFACE AREA	2.73 ACRES

ENGINEER'S CERTIFICATION:  
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By: *[Signature]* Date: 2-9-11

WETLAND AND 25' BUFFER AREAS SHALL NOT BE DISTURBED UNTIL THE PERMIT FROM THE ARMY CORPS OF ENGINEERS IS OBTAINED.

PARCEL NO.: 390229 420160  
OWNER: WHATCOM HUMANE SOCIETY

APPROVED  
DEC 24 2012  
By: *[Signature]*  
CITY OF FERNDAL



AS-BUILT PLAN

CALL BEFORE YOU DIG  
FOR BURIED UTILITY LOCATIONS  
1-800-424-5555

No.	Date	REVISION

DESIGNED BY:	HAF / JPS
DRAWN BY:	JPS
CHECKED BY:	HAF

220 West Champion Street, Suite 200 t: 360.650.1408  
Bellingham, WA 98225 f: 360.650.1401

**FREELAND & ASSOCIATES**

CLIENT: **SUPER FEET WORLD WIDE, INC**  
1419 WHITEHORN STREET  
FERNDAL, WA 98248

PROJECT LOCATION: FERNDAL INDUSTRIAL PARK  
1820 SCOUT PLACE  
FERNDAL, WA 98248

SHEET CONTENTS:

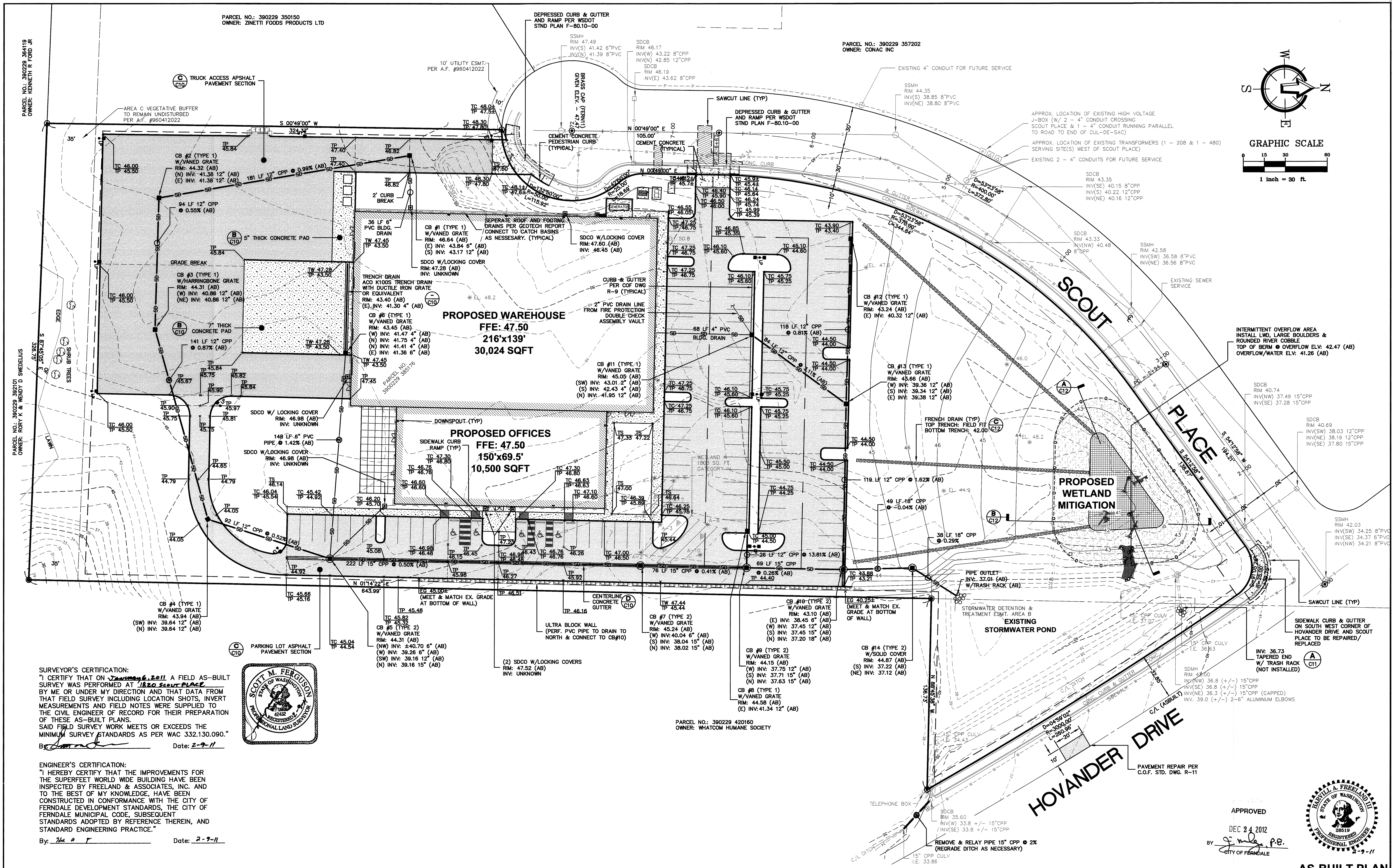
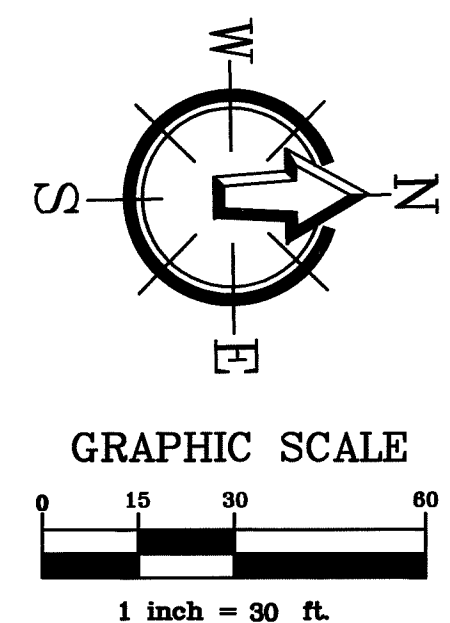
**PHASE ONE  
SITE PLAN**

DWG #:	09097ASB3.DWG
JOB #:	09097
SCALE:	H: 1" = 30' V: n/a

DATE:	01-26-11
SHEET:	C6



PARCEL NO.: 390229 392101  
OWNER: RORY K & WENDY D SWEDELIUS



SURVEYOR'S CERTIFICATION:  
 "I CERTIFY THAT ON January 6, 2011 A FIELD AS-BUILT SURVEY WAS PERFORMED AT 1820 SCOUR PLACE BY ME OR UNDER MY DIRECTION AND THAT DATA FROM THAT SURVEY INCLUDING LOCATION SHOTS, INVERT MEASUREMENTS AND FIELD NOTES WERE SUPPLIED TO THE CIVIL ENGINEER OF RECORD FOR THEIR PREPARATION OF THESE AS-BUILT PLANS.  
 SAID FIELD SURVEY WORK MEETS OR EXCEEDS THE MINIMUM SURVEY STANDARDS AS PER WAC 332.130.090."  
 By [Signature] Date: 2-9-11



ENGINEER'S CERTIFICATION:  
"I HEREBY CERTIFY THAT THE IMPROVEMENTS FOR  
THE SUPERIOR WORLD WIDE BUILDING HAVE BEEN  
INSPECTED BY FREELAND & ASSOCIATES, 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 ENGINEERING PRACTICE."

By: Neil A. F. Date: 2-2-11

PARCEL NO.: 390229 420160  
OWNER: WHATCOM HUMANE SOCIETY

APPROVED  
DEC 24 2012  
BY J. M. G. P.E.  
CITY OF FERDALE



**AS-BUILT PLAN**

<div>CALL BEFORE YOU DIG FOR BURIED UTILITY LOCATIONS 1-800-424-5555</div>				DESIGNED BY: HAF / JPS	 <div>FREELAND &amp; ASSOCIATES</div>	220 West Champion Street, Suite 290 t: 360.650.1408 Bellingham, WA 98225 f: 360.650.1401	CLIENT: SUPER FEET WORLD WIDE, INC 1419 WHITEHORN STREET FERNDAL, WA 98248	SHEET CONTENTS:  PAVING, GRADING & DRAINAGE PLAN	DWG #: 09097ASB3.DWG	DATE: 01-26-11
				DRAWN BY: JPS		PROJECT LOCATION: FERNDAL INDUSTRIAL PARK 1820 SCOUT PLACE FERNDAL, WA 98248	JOB #: 09097		SHEET: C7	
	No.	Date	REVISION	By		CHECKED BY: HAF			SCALE: H: 1" = 30' V: n/a	



**PARCEL NO.: 390229 357202**  
**OWNER: CONAC INC**

**PROPOSED WAREHOUSE**  
FFE: 47.50  
216'x139'  
30,024 SQFT

**PROPOSED OFFICES**  
FFE: 47.50  
150'x69.5'  
10,500 SQFT

**PROPOSED WETLAND MITIGATION**

**Hovander Drive**

**Scout Place**

**EXISTING STORMWATER POND**

**SCOUT PLACE**

**HOVANDER DRIVE**

**SURVEYOR'S CERTIFICATION:**  
"I CERTIFY THAT ON JANUARY 6, 2011, A FIELD AS-BUILT SURVEY WAS PERFORMED AT 1820 SCOUT PL. BY ME OR UNDER MY DIRECTION AND THAT DATA FROM THAT FIELD SURVEY INCLUDING LOCATION SHOTS, INVERT MEASUREMENTS AND FIELD NOTES WERE SUPPLIED TO THE CIVIL ENGINEER OF RECORD FOR THEIR PREPARATION OF THESE AS-BUILT PLANS. SAID FIELD SURVEY WORK MEETS OR EXCEEDS THE MINIMUM SURVEY STANDARDS AS PER WAC 332.130.090."

By: [Signature] Date: 2-9-11

**ENGINEER'S CERTIFICATION:**  
"I HEREBY CERTIFY THAT THE IMPROVEMENTS FOR THE SUPERFEET WORLD WIDE BUILDING HAVE BEEN INSPECTED BY FREELAND & ASSOCIATES, 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 ENGINEERING PRACTICE."

By: [Signature] Date: 2-9-11

**APPROVED**  
DEC 24 2012  
BY: [Signature] P.E.  
CITY OF FERNDALE

**AS-BUILT PLAN**

No.	Date	REVISION	By

DESIGNED BY:  
HAF / JPS  
DRAWN BY:  
JPS  
CHECKED BY:  
HAF

**FREELAND & ASSOCIATES**  
220 West Champion Street, Suite 290 t: 360.650.1408  
Bellingham, WA 98225 f: 360.650.1401

**CLIENT:**  
**SUPER FEET WORLD WIDE, INC**  
1419 WHITEHORNS STREET  
FERNDAL, WA 98248

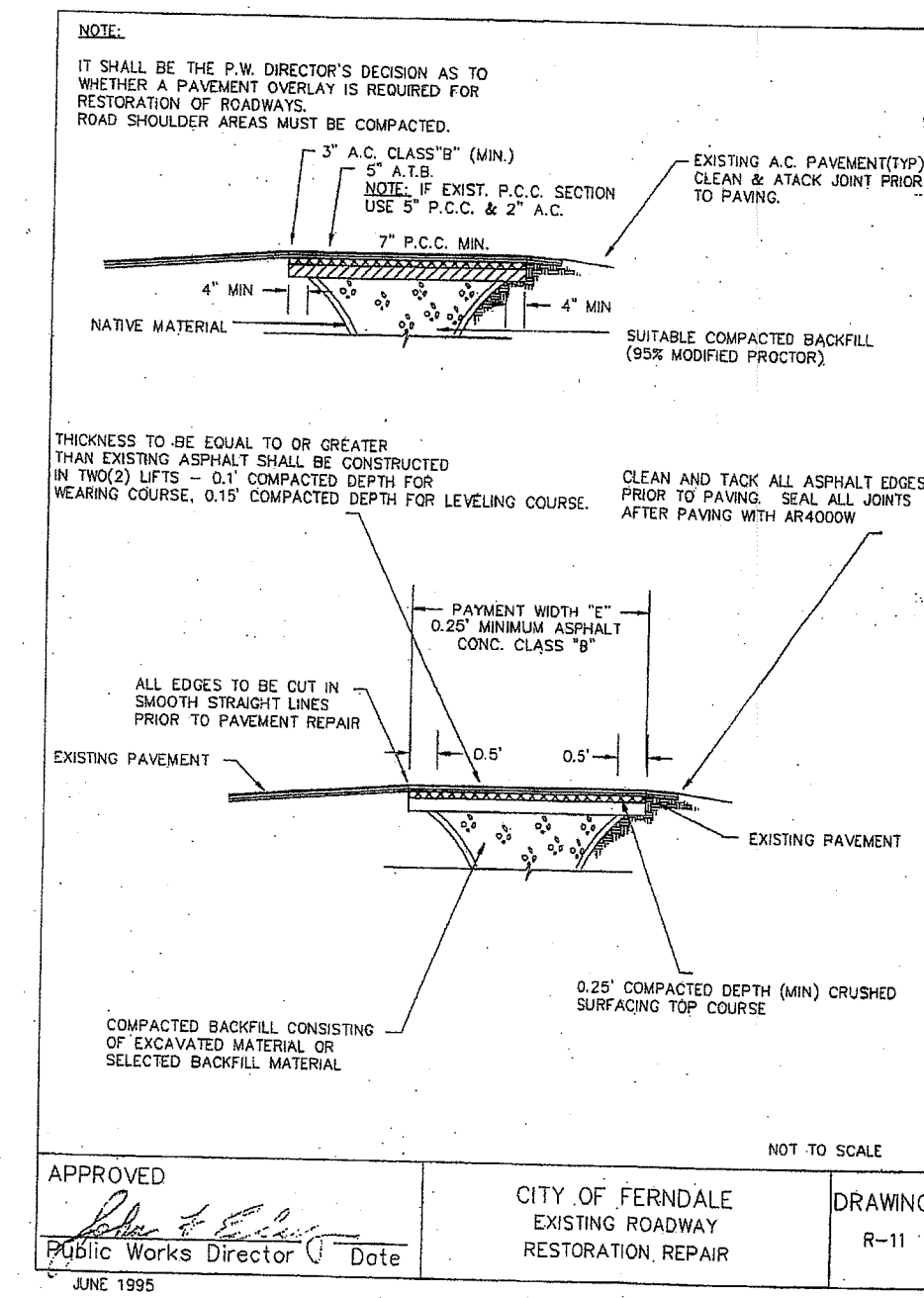
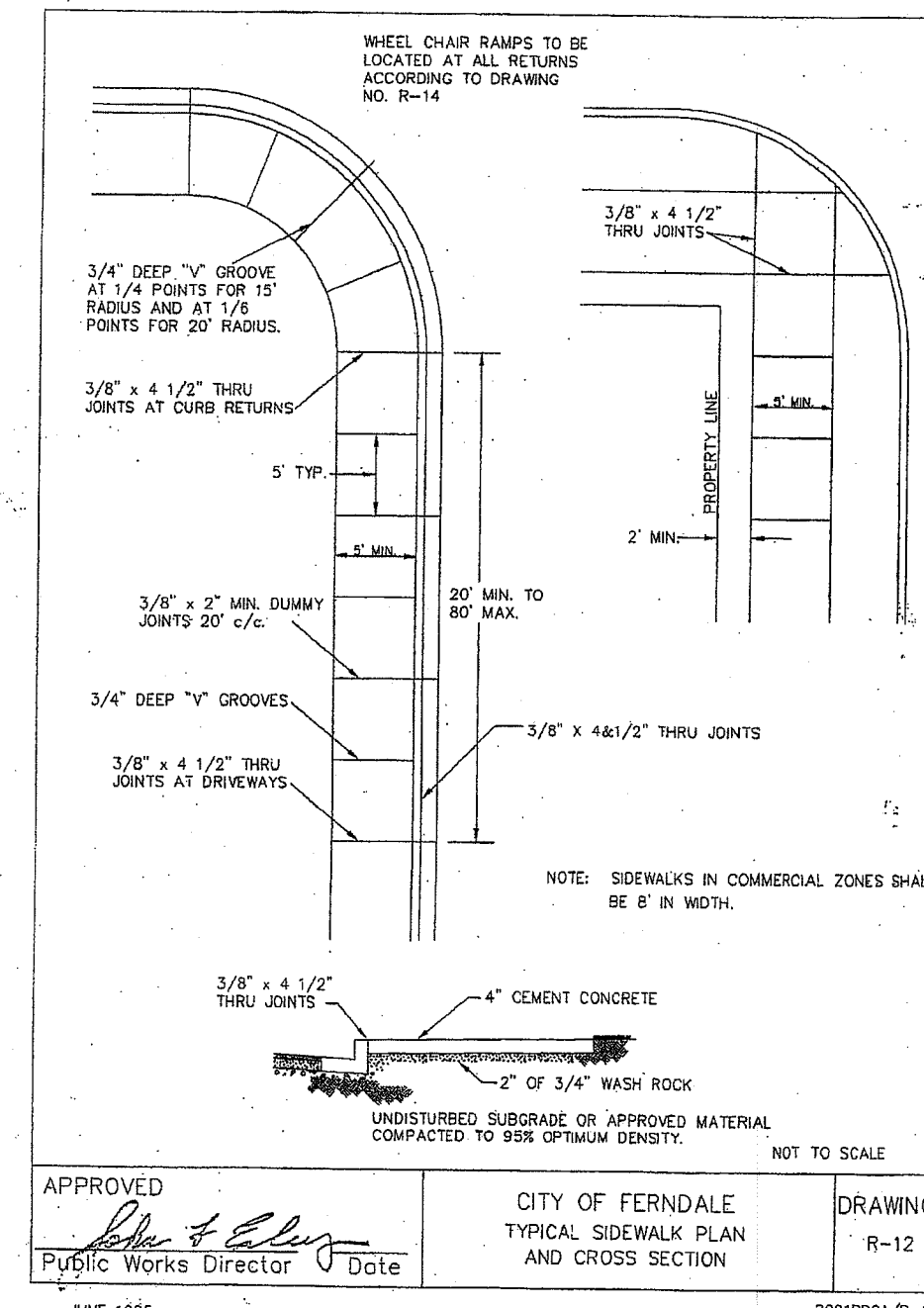
**PROJECT LOCATION:**  
FERNDAL INDUSTRIAL PARK  
1820 SCOUT PLACE  
FERNDAL, WA 98248

**SHEET CONTENTS:**  
**SANITARY SEWER & WATER DISTRIBUTION PLAN**

DWG #: 09097ASB3.DWG  
JOB #: 09097  
SCALE: H: 1" = 30' V: n/a

DATE: 01-26-11  
SHEET: C8

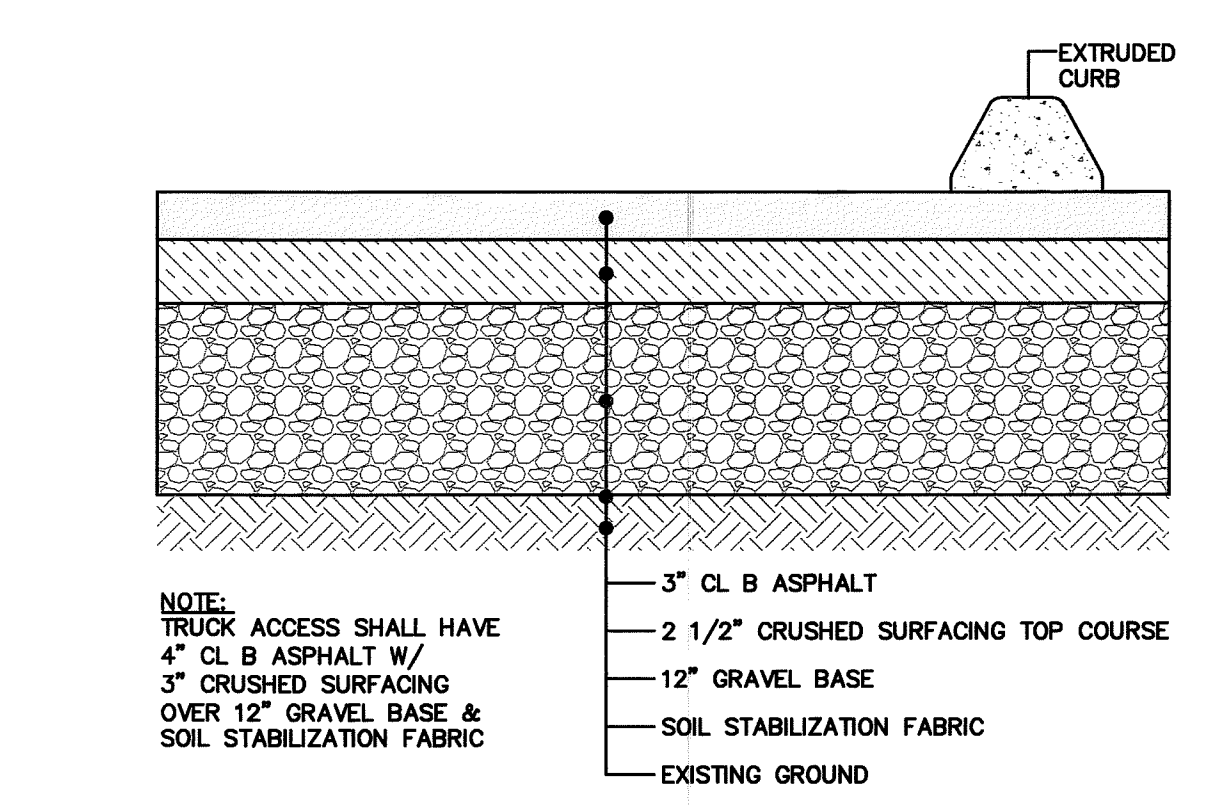
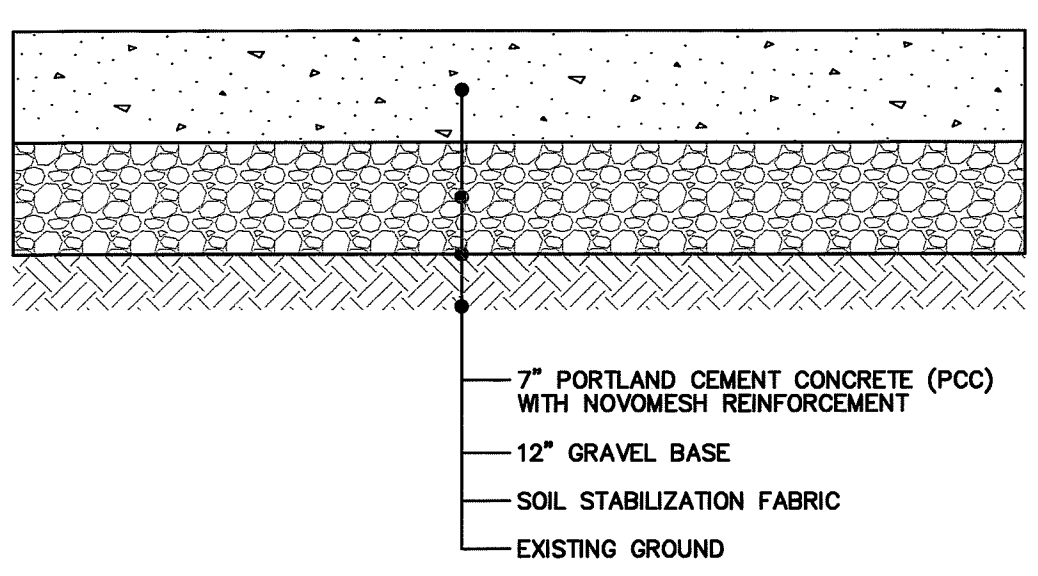
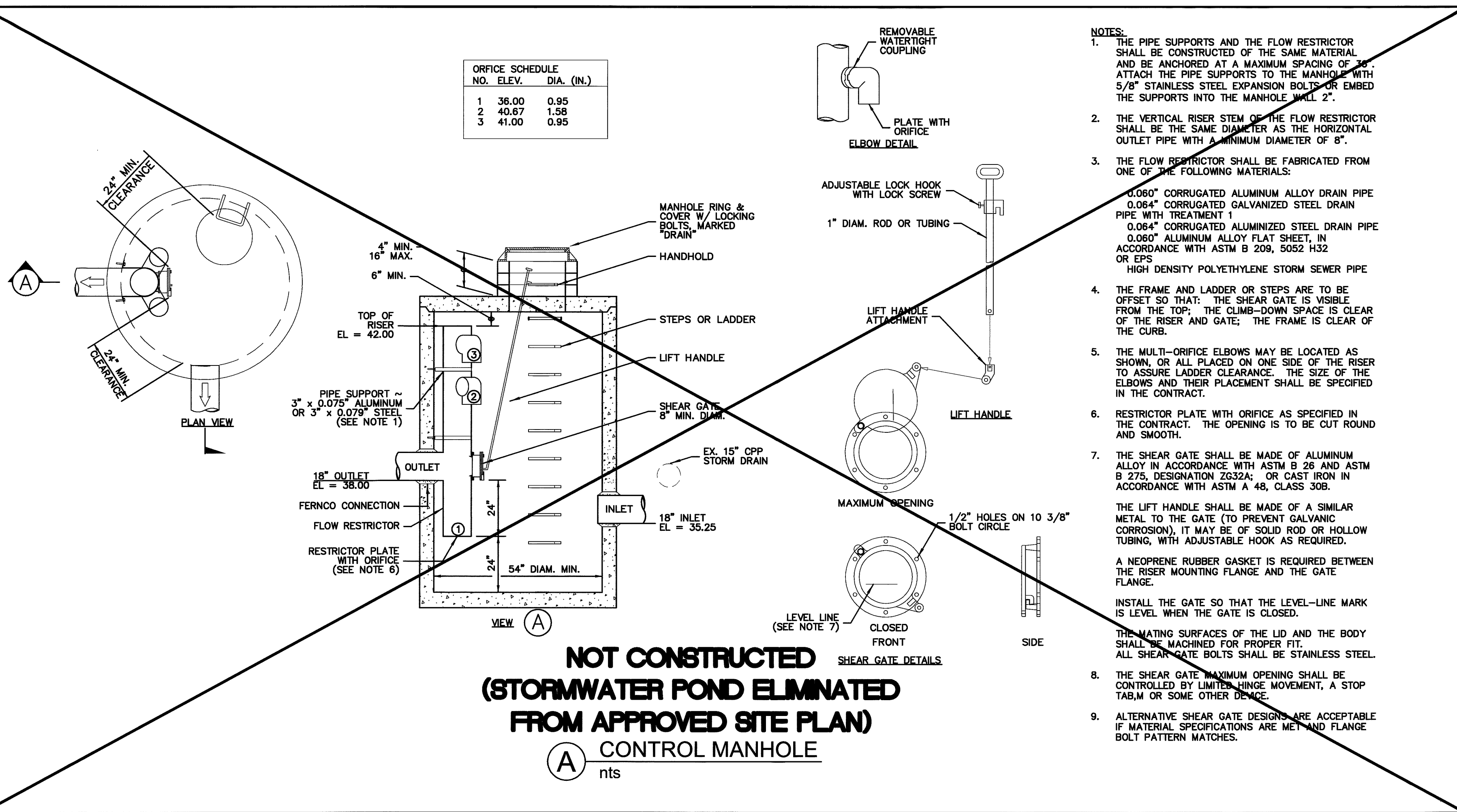




## AS-BUILT PLAN



12/26/12 SH  
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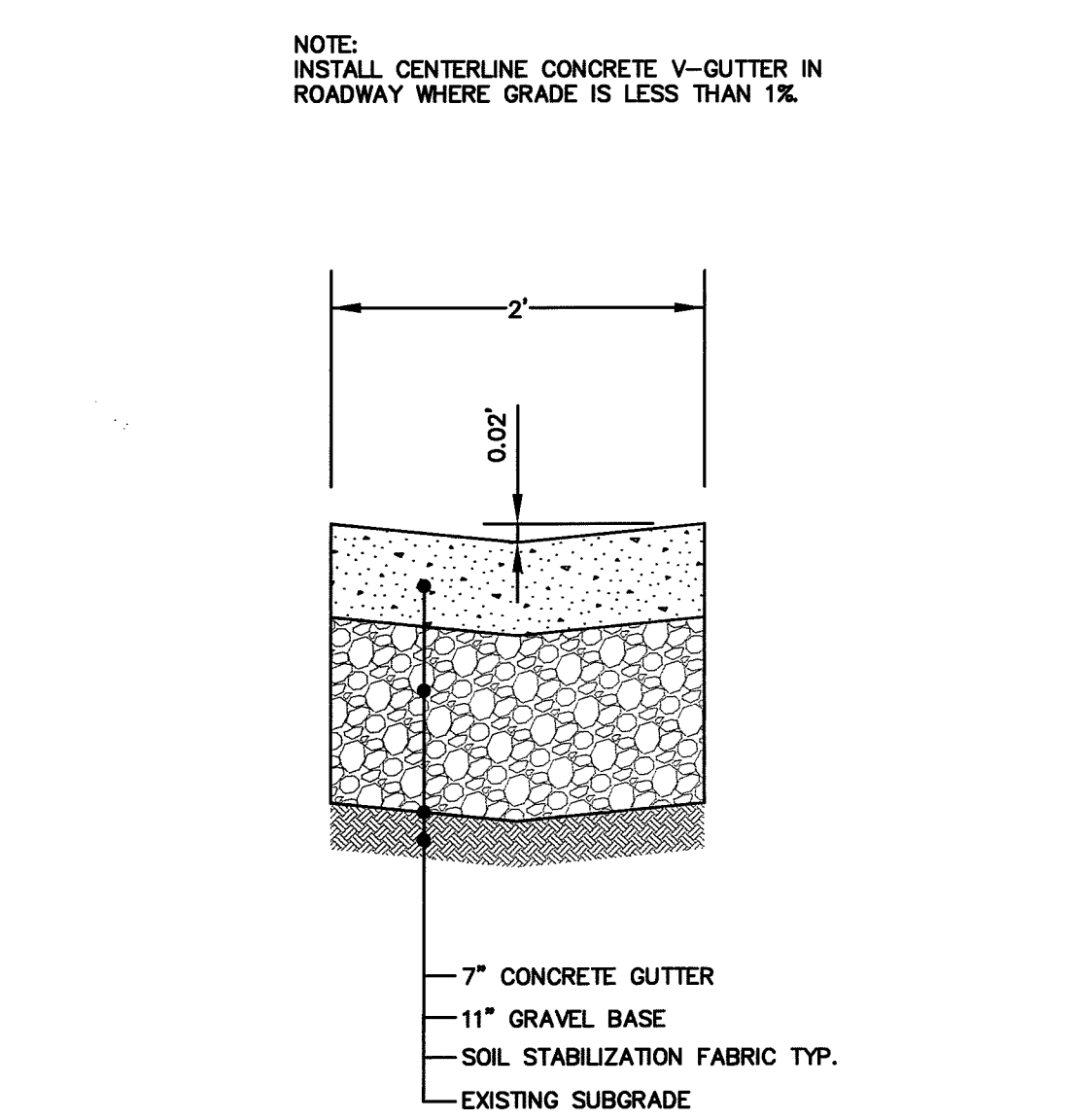


(B) PCC PAVEMENT SECTION

nts

(C) ASPHALT PAVEMENT SECTION (PARKING LOT)

nts



(D) CENTER LINE CONCRETE GUTTER

nts

ENGINEER'S CERTIFICATION:

"I HEREBY CERTIFY THAT THE IMPROVEMENTS FOR THE SUPERFEET WORLD WIDE BUILDING HAVE BEEN INSPECTED BY FREELAND & ASSOCIATES, INC. 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."

By: *Joe A. H* Date: *2-9-11*

ACO DRAIN

KlassikDrain - K100S, K5100S

Feb 08

One meter channel

Half meter channel

In-line catch basin

End Caps - Closing/Inlet/outlet cap

6" Oval inlet cap

6" Oval outlet cap

Outlet flow rates

ACO Specification Information

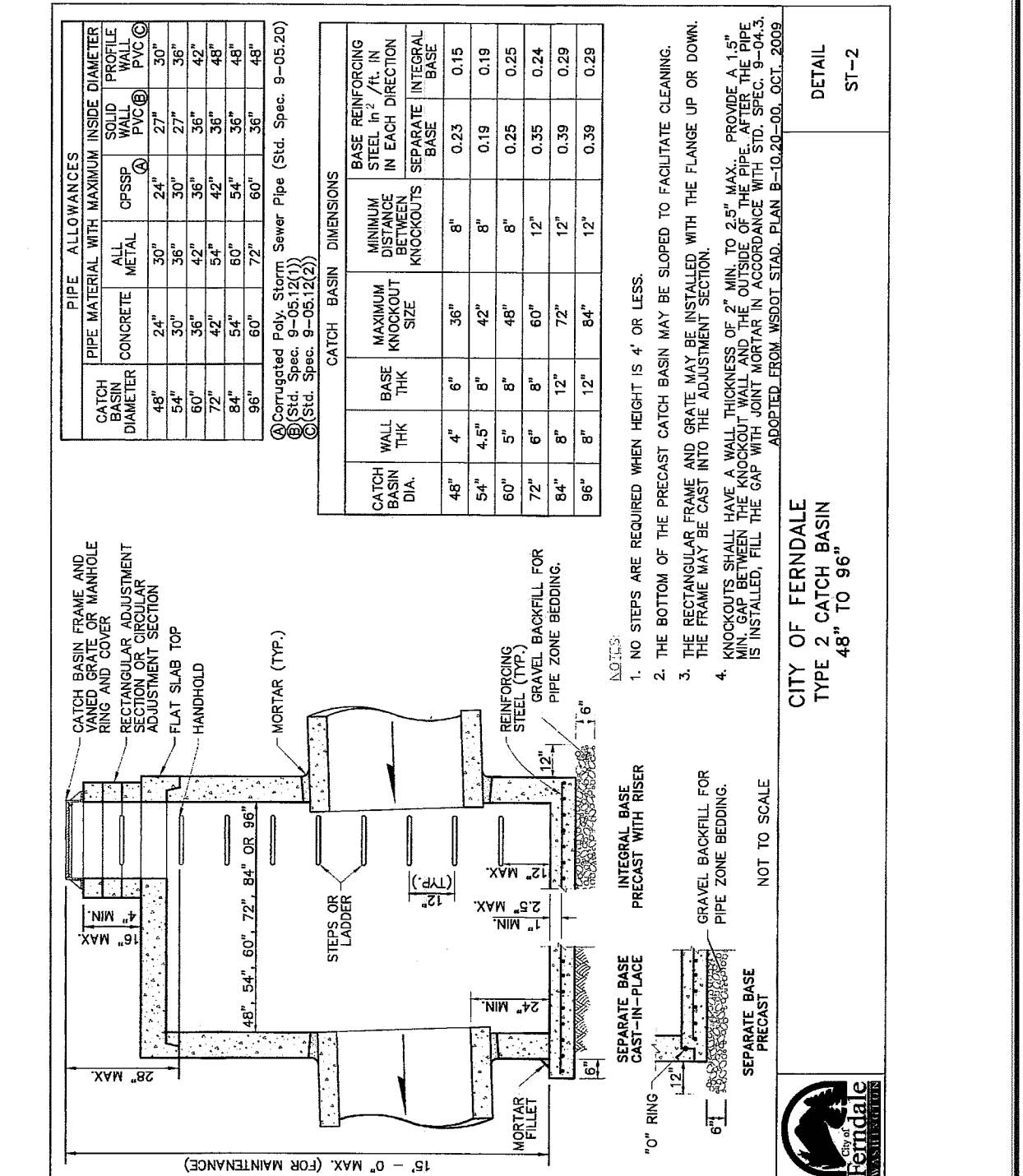
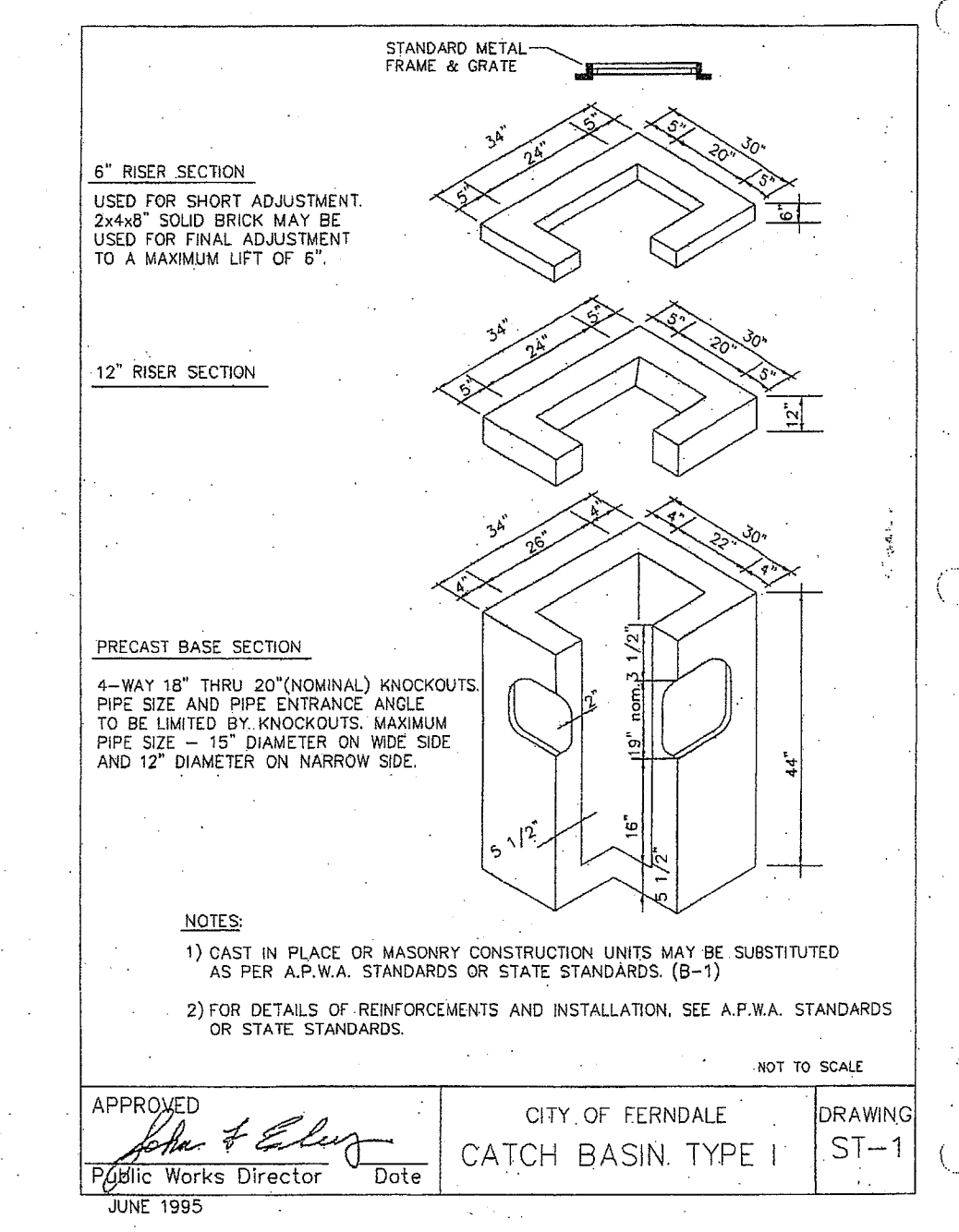
ACO Polymer Products, Inc.

East Sales Office

West Sales Office

Electronic Contact:

ACO



APPROVED

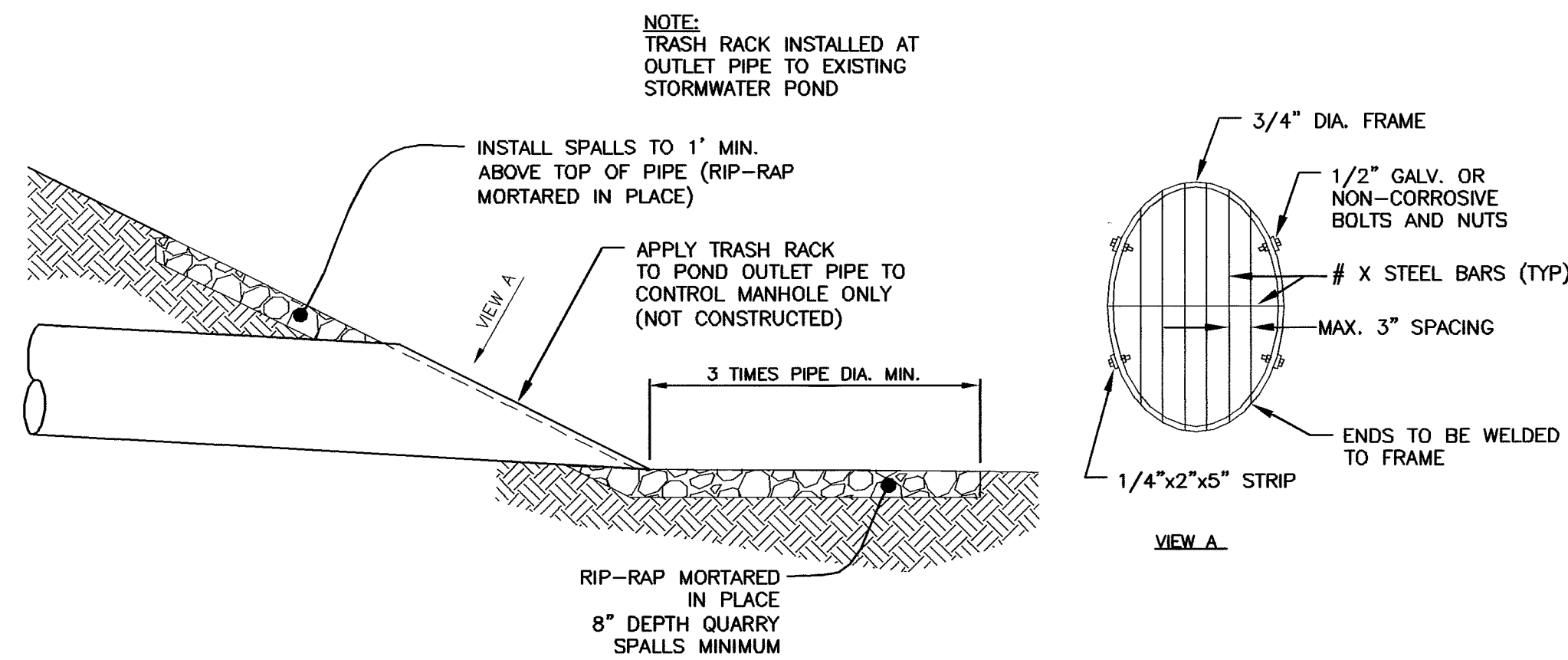
DEC 24 2012

By: *Joe A. H* P.E.

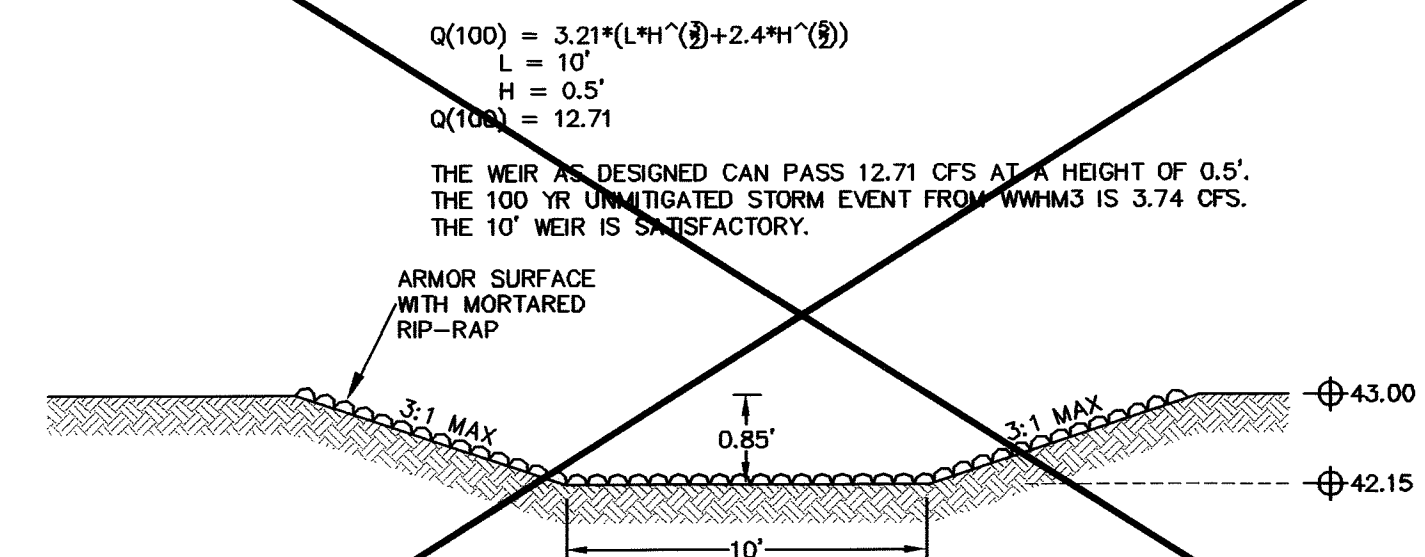
CITY OF FERNDAL

AS-BUILT PLAN





**A** END OF PIPE / RIP-RAP DETAIL  
nts



**NOT CONSTRUCTED  
(STORMWATER POND ELIMINATED  
FROM APPROVED SITE PLAN)**

**B** EMERGENCY OVERFLOW SPILLWAY  
nts

ENGINEER'S CERTIFICATION:  
"I HEREBY CERTIFY THAT THE IMPROVEMENTS FOR  
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INSPECTED BY FREELAND & ASSOCIATES, INC. AND  
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CONSTRUCTED IN CONFORMANCE WITH THE CITY OF  
FERNDALDE DEVELOPMENT STANDARDS, THE CITY OF  
FERNDALDE MUNICIPAL CODE, SUBSEQUENT  
STANDARDS ADOPTED BY REFERENCE THEREIN, AND  
STANDARD ENGINEERING PRACTICE."

By: HAF Date: 2-9-11

APPROVED  
DEC 24 2012  
BY: J. W. P.E.  
CITY OF FERNDALDE



2-9-11

AS-BUILT PLAN

CALL BEFORE YOU DIG  
FOR BURIED UTILITY LOCATIONS  
1-800-424-5555

No.	Date	REVISION

DESIGNED BY: HAF / JPS
DRAWN BY: JPS
CHECKED BY: HAF

220 West Champion Street, Suite 290 t: 360.650.1408  
Bellingham, WA 98225 f: 360.650.1401

**FREELAND  
& ASSOCIATES**

CLIENT: **SUPER FEET WORLD WIDE, INC**  
1419 WHITEHORN STREET  
FERNDALDE, WA 98248

PROJECT LOCATION:  
FERNDALDE INDUSTRIAL PARK  
1820 SCOUT PLACE  
FERNDALDE, WA 98248

SHEET CONTENTS:  
**STORMWATER DETAILS**

DWG #:	09097ASB3.DWG	DATE:	01-26-11
JOB #:	09097	SHEET:	<b>C11</b>
SCALE:	H: n/a V: n/a		

11/01/12 11:01:4500

WETLAND/BUFFER SUBGRADE

WETLAND & BUFFER SUBGRADE SHALL BE NATIVE CONSOLIDATED SOIL FREE OF LOOSE SURFACE SOIL MATERIALS, ROOTS, AND OTHER ORGANIC DEBRIS. WETLAND SUBGRADE A DENSE, LOW PERMEABILITY SUBGRADE THAT CAN TOLERATE POST CONSTRUCTION SETTLEMENTS WITH A MINIMUM OF CRACKING. THE WETLAND SUBGRADE SHOULD BE STABLE AND COMPACTED TO A MINIMUM OF 95% OF THE STANDARD PROCTOR MAXIMUM DENSITY. 0.5" OF BENTONITE CLAY SHALL BE INSTALLED WITHIN WETLAND AREA AT 4 LBS./S.F. AND THEN SALVAGED SOILS FROM THE EXISTING WETLAND'S LOWER SOIL STRATA/COLUMN WILL BE PLACED OVER THE BENTONITE CLAY AND THEN COMPACTED WITH THE EXCAVATOR BUCKET.

PLANT SPECIFICATIONS

CONTAINER/SIZE & LOCATION:  
EMERGENT PLANTS SHALL BE 4" POT MINIMUM OR PLUGS IN CLUMPS OF 7 OR MORE. SHRUBS SHALL BE A MINIMUM OF 1 GALLON POTS OR 18" BARE ROOT. EMERGENT PLANTS (SEDGES, BURREED & BULRUSH) SHALL BE PLANTED IN LOW AREAS OF THE WETLAND. PLANT SHRUBS AROUND THE PERIMETER OF THE WETLAND IN GROUPS OF 5 OR MORE.

SOIL SPECIFICATIONS

WETLAND & BUFFER SOIL MIX  
TOPSOIL/MEDIA SHALL BE EQUAL TO CEDAR GROVE COMPOSTING - VEGETABLE GARDEN MIX. SOIL MIX/MEDIA SHALL HAVE A GRAVELY-SANDY LOAM TO LOAM TEXTURE PER USDA TEXTURAL TRIANGLE. MAXIMUM CLAY CONTENT IS <5%. SOIL MIXTURE SHALL BE 85% GRAVELY SAND (GRADATION PER ASTM 422), 35% ORGANIC MATTER/COMPOST. THE SOIL SHALL BE A UNIFORM MIX, FREE OF STONES, STUMPS, ROOTS, OR OTHER SIMILAR OBJECTS LARGER THAN 2". THE PLANTING SOIL SHALL BE FREE OF ALL NOXIOUS WEEDS. THE TOPSOIL/MEDIA MIX SHALL HAVE A NEUTRAL PH RANGE 6.2 TO 7.0. COMPOST MATERIAL MUST BE IN COMPLIANCE WITH WAC CHAPTER 173-350 SECTION 220 AND MEET TYPE 1, 2, 3, OR 4 FEED STOCK.

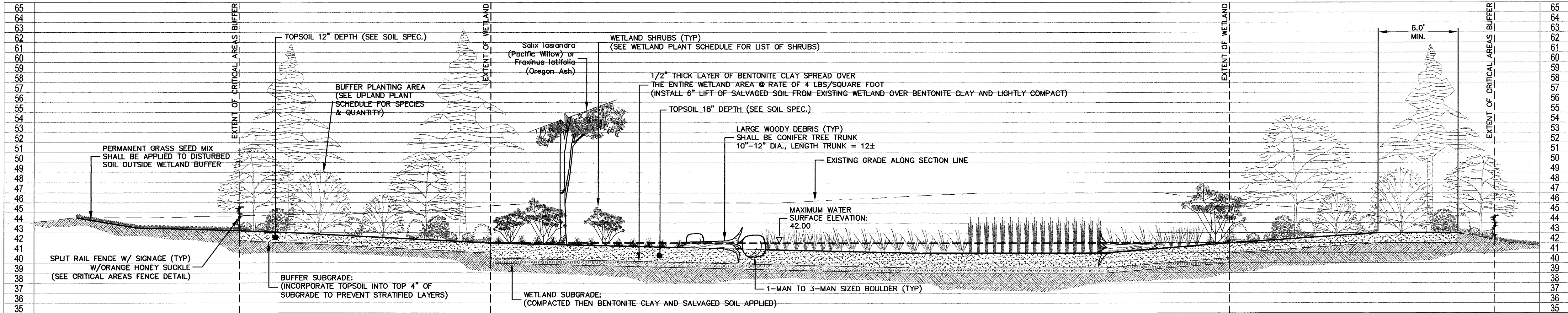
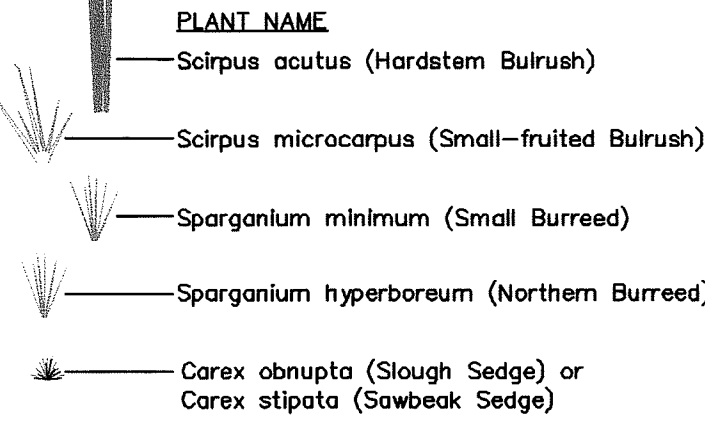
SOIL PLACEMENT:

PLACEMENT OF THE TOPSOIL/PLANTING MEDIA IN THE WETLAND & BUFFER AREA SHOULD BE IN LIFTS OF 12 TO 18 INCHES AND LIGHTLY COMPACTED. MINIMAL COMPACTION EFFORT CAN BE APPLIED TO THE SOIL BY TAMPING WITH A BUCKET FROM A DOZER OR BACKHOE FROM THE SIDE OF THE RAIN GARDEN ONLY - DRIVING OVER/ON RAIN GARDEN SOIL IS PROHIBITED.

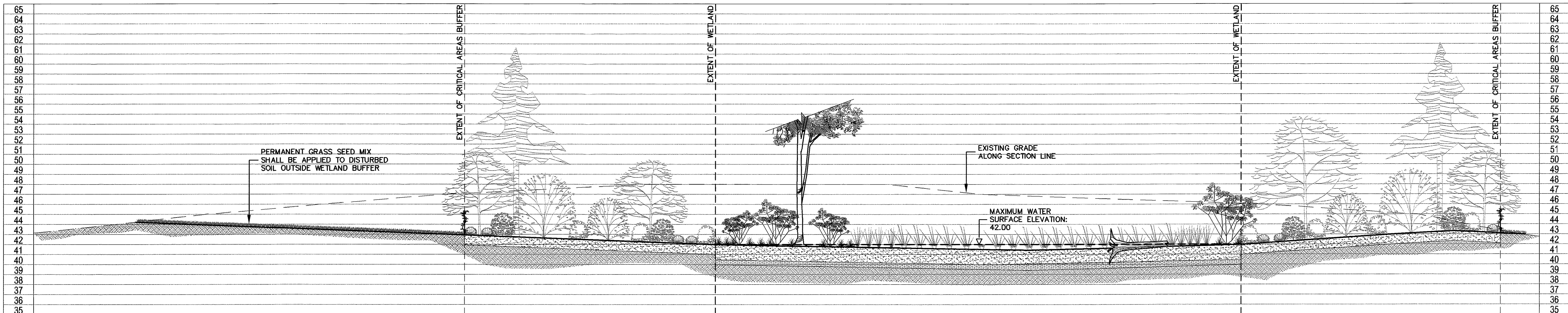
MULCH/ORGANIC LAYER SPECIFICATIONS

WETLAND & BUFFER MULCH TEXTURE AND STRUCTURE:  
2-3 INCH LAYER OF HARDWOOD MULCH (COARSE PARTICLE SIZE - 2"-3" LENGTH) IS REQUIRED. MULCH SHALL BE SPREAD BY HAND-TOOLS ONLY (NO HEAVY EQUIPMENT IS TO BE USED WITHIN THE WETLAND & BUFFER IN ORDER TO AVOID COMPACTION). THE MULCH/MATERIAL PROVIDES FOR THE DECOMPOSITION OF ORGANIC MATERIAL AND ALSO PLAYS AN IMPORTANT ROLE IN THE REMOVAL OF METALS. SHREDDED HARDWOOD MULCH ALLOWS FOR MAXIMUM SURFACE AREA FOR BINDING AND RESISTS FLOTATION/WASHOUT. EACH SPRING, THE BUFFER & WETLAND SHALL BE RE-MULCHED WITH 2-3 INCHES OF HARDWOOD MULCH AFTER TWO GROWING SEASONS.

WETLAND EMERGENT PLANT LEGEND



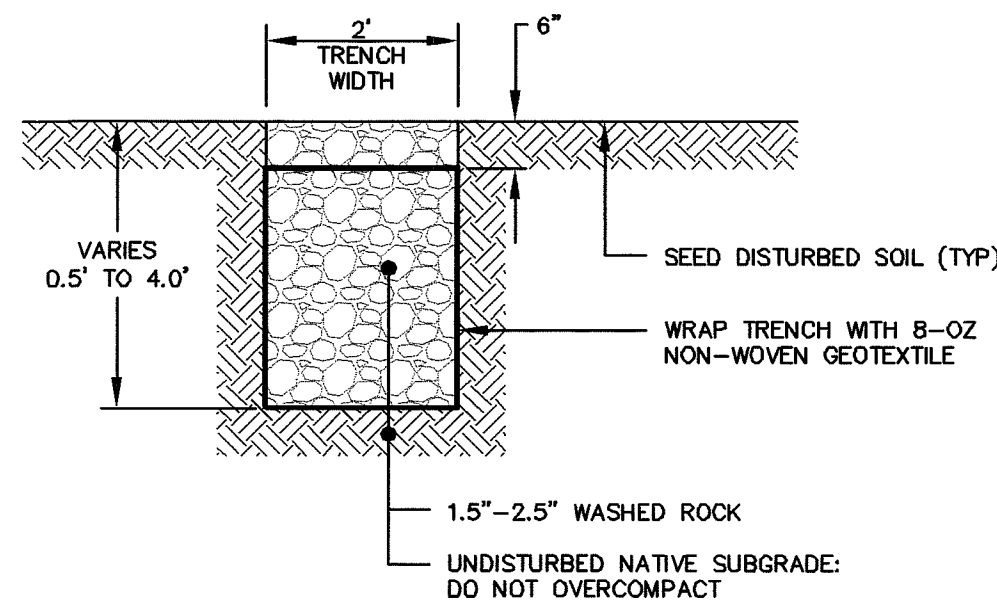
A WETLAND SECTION  
nts



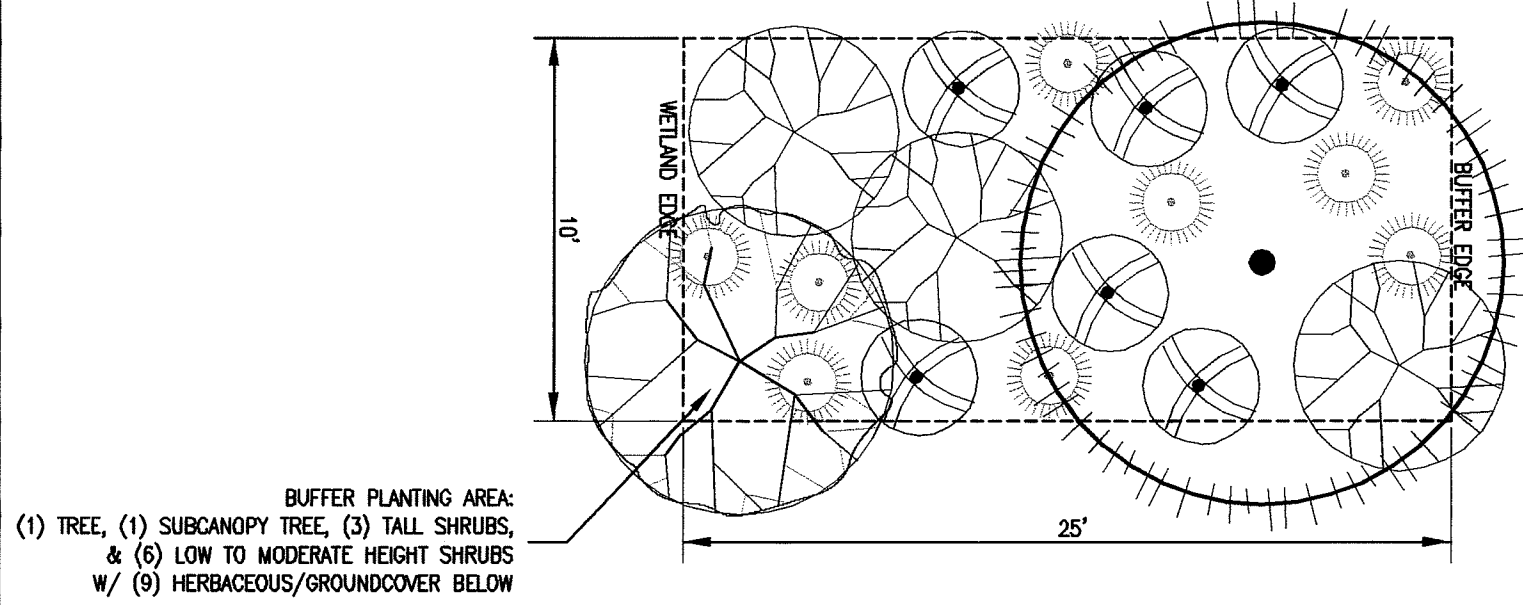
B WETLAND SECTION  
nts

ENGINEER'S CERTIFICATION:  
"I HEREBY CERTIFY THAT THE IMPROVEMENTS FOR THE SUPERFEET WORLD WIDE BUILDING HAVE BEEN INSPECTED BY FREELAND & ASSOCIATES, 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 ENGINEERING PRACTICE."

By: Nu & Y Date: 2-9-11



C FRENCH DRAIN DETAIL  
nts



D TYPICAL BUFFER PLANTING TEMPLATE  
nts

BUFFER INSTALLATION NOTES:

- CIVIL ENGINEER SHALL BE CONTACTED 48 HRS. PRIOR TO PLANTING BUFFER & WETLAND PLANTS AND REPRESENTATIVE SHALL BE ONSITE DURING PLACING OF PLANTS.
- IF BARE ROOT PLANTS TO BE INSTALLED INSTEAD OF CONTAINER PLANTS, THEN INCREASE TOTAL QUANTITY PER SPECIES BY 300%.
- BARE ROOT PLANTS SHALL BE INSTALLED BETWEEN OCTOBER 30TH AFTER MARCH 15TH (I.E. WHEN AVAILABLE AT BARE ROOT NURSERY.)
- LARGE WOODY DEBRIS (LWD) SHALL BE INSTALLED IN LOCATIONS SHOWN ON PLAN. SHALL BE CONIFER TREES, WITH 12' LONG TRUNK ATTACHED TO ROOTWAD, DIAMETER OF LWD SHALL BE 10" TO 12". TOTAL NUMBER OF LWD TO BE INSTALLED IS NINE (9).
- BOULDERS SHALL BE INSTALLED IN LOCATIONS SHOWN ON PLAN & SHALL BE 1-MAN TO 3-MAN SIZE. TOTAL NUMBER OF 1-MAN BOULDERS IS TEN (10), TOTAL NUMBER OF 2-MAN BOULDERS IS FIVE (5), TOTAL NUMBER OF 3-MAN BOULDERS IS FOUR (4).

E WETLAND & BUFFER PLANTING SCHEDULE  
nts

BUFFER PLANTING AREA:

GENUS SPECIES	COMMON NAME	QUANTITY	SIZE	SPACING
<b>Trees:</b>				
Acer macrophyllum	Big Leaf Maple	9	4-6' Ht.	20' o.c.
Pinus contorta var. contorta	Shore Pine	9	4-6' Ht. & 6-8' Ht.	8-15' o.c.
Pseudotsuga menziesii	Douglas fir	10	4-6' Ht. & 6-8' Ht.	8-15' o.c.

Sub-Canopy Trees & Tall Shrubs:

Acer circinatum	Vine Maple	9	4-6' Ht. (Multi-trunk)	8' o.c.
Amelanchier alnifolia	Serviceberry	10	4-6' Ht. (Multi-trunk)	8' o.c.
Holodiscus discolor	Oceanspray	30	1 gal./18" bare root	6' o.c.
Oemleria cerasiformis	Indian Plum	12	1 gal./18" bare root	5' o.c.
Philadelphus lewisii	Mock Orange	21	1 gal./18" bare root	6' o.c.
Salix hookeriana	Hookers Willow	21	4-6' Ht./br.	10' o.c.
Sambucus racemosa	Red Elderberry	21	1 gal./18" bare root	8' o.c.

Low to Moderate Height Shrubs:

Gaultheria shallon	Salal	33	1 gal.	4' o.c.
Mahonia aquifolium	Tall Oregon Grape	33	1 gal.	5' o.c.
Polystichum munitum	Sword Fern	25	1 gal.	4' o.c.
Ribes sanguineum	Red Flowering Currant	33	1 gal./18" bare root	4' o.c.
Symphoricarpos albus	Snowberry	44	1 gal./18" br.	4' o.c.

Herbaceous/Groundcover:

Achillea millefolium	Common Yarrow	42	4" pot/seed	1' o.c.
Anaphalis margaritacea	Pearly Everlasting	42	4" pot/seed	1.5' o.c.
Aquilegia vulgaris	Purple Columbine	21	4" pot/seed	1' o.c.
Arctostaphylos uva-ursi	Kinnikinnick	42	1 gal.	2' o.c.
Lonicera ciliosa	Orange Honeysuckle	15	1 gal./18" bare root	10' o.c.
Festuca idahoensis	Idaho Fescue	42	2.5" pot	1.5' o.c.
Fragaria virginiana	Wild Strawberry	63	2.5" pot	1.5' o.c.

WETLAND PLANTING AREA:

GENUS SPECIES	COMMON NAME	QUANTITY	SIZE	SPACING
<b>Trees:</b>				
Fraxinus latifolia	Oregon Ash	5	2 gal./36" bare root	8'-20' o.c.
Salix lucida ssp. lasiandra	Pacific Willow	4	2 gal./36" bare root	10'-20' o.c.

Shrubs:

Lonicera involucrata	Black Twinberry	9	1 gal.	6' o.c.
Cornus sericea	Red Osier Dogwood	15	1 gal.	5' o.c.
Rubus spectabilis	Salmonberry	15	1 gal./18" bare root	4' o.c.
Rosa nutkana	Nootka Rose	15	1 gal./18" bare root	4' o.c.
Vaccinium ovatum	Evergreen Huckleberry	12	1 gal.	5' o.c.

Herbaceous/Groundcover:

Athyrium filix-femina	Lady Fern	250	4" pot	1.5' o.c.
Carex obnupta	Slough Sedge	250	1 gal. / plug	1' o.c.
Carex stipata	Sawbeak Sedge	250	1 gal. / plug	1' o.c.
Scirpus acutus	Hardstem Bulrush	250	1 gal. / plug	1.5' o.c.
Scirpus microcarpus	Small Fruited Bulrush	250	1 gal. / plug	1.5' o.c.
Sparganium hyperboreum	Northern Burreed	250	1 gal. / plug	1.5' o.c.
Sparganium minimum	Small Burreed	250	1 gal. / plug	1.5' o.c.

APPROVED  
DEC 24 2012  
BY: J. m. p. e.  
CITY OF FERNDALE



AS-BUILT PLAN

CALL BEFORE YOU DIG  
FOR BURIED UTILITY LOCATIONS  
1-800-424-5555

No. Date REVISION

DESIGNED BY:  
HAF / JPS  
DRAWN BY:  
JPS  
CHECKED BY:  
HAF

220 West Champion Street, Suite 290 P: 360.650.1408  
Bellingham, WA 98225 F: 360.650.1401  
**FREELAND & ASSOCIATES**

CLIENT: **SUPER FEET WORLD WIDE, INC**  
1419 WHITEHORN STREET  
FERNDALE, WA 98248  
PROJECT LOCATION: FERNDALE INDUSTRIAL PARK  
1820 SCOUT PLACE  
FERNDALE, WA 98248

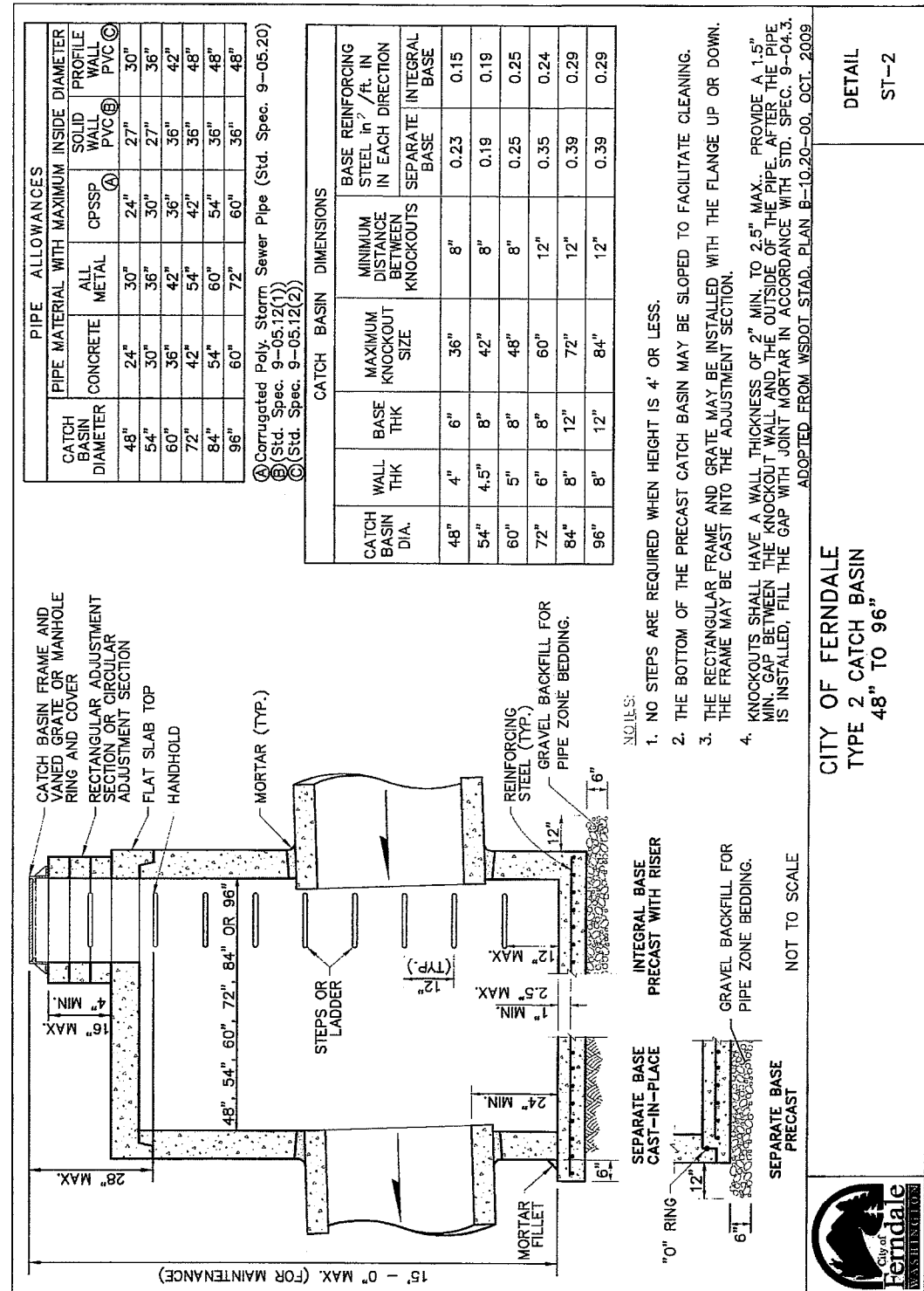
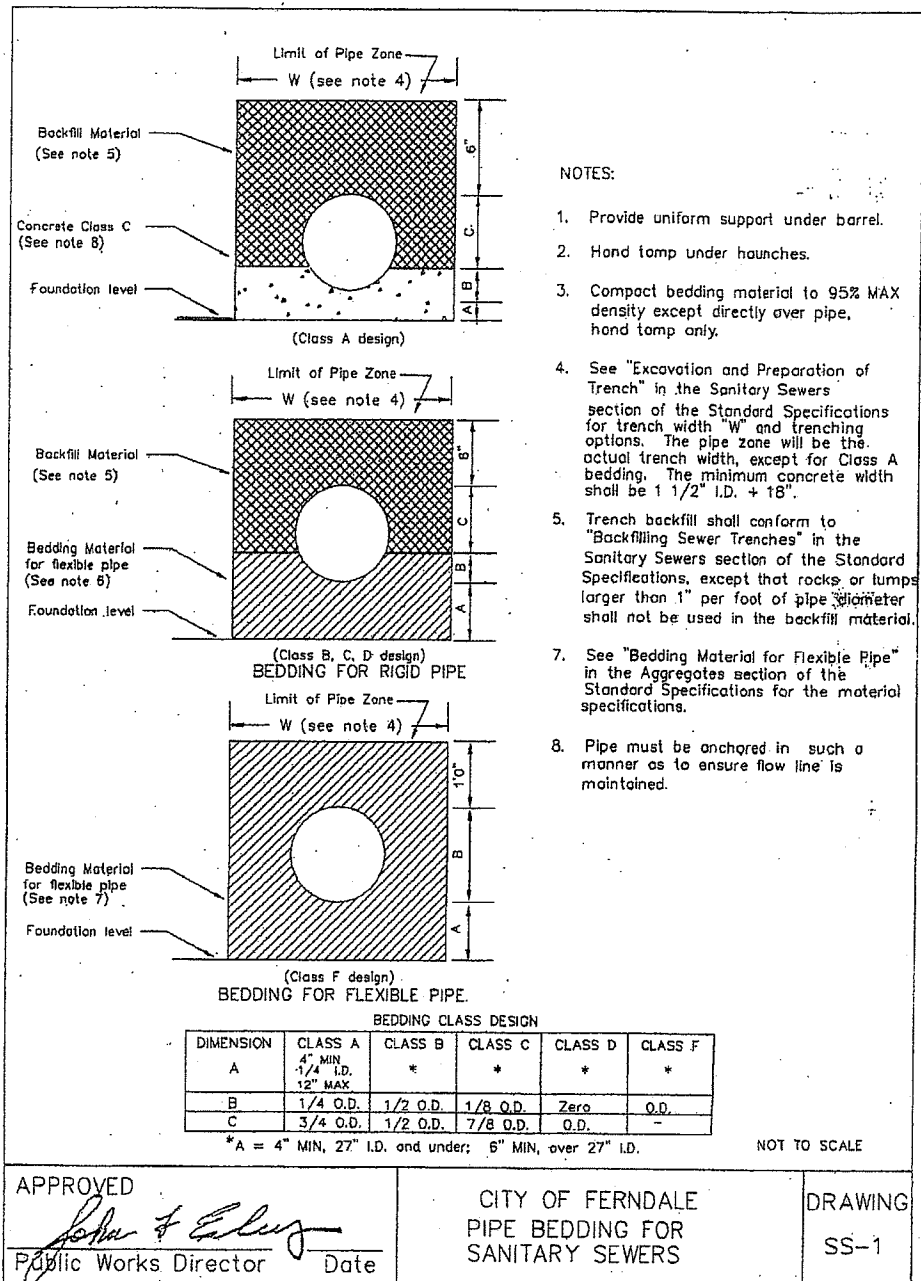
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WETLAND MITIGATION PLAN

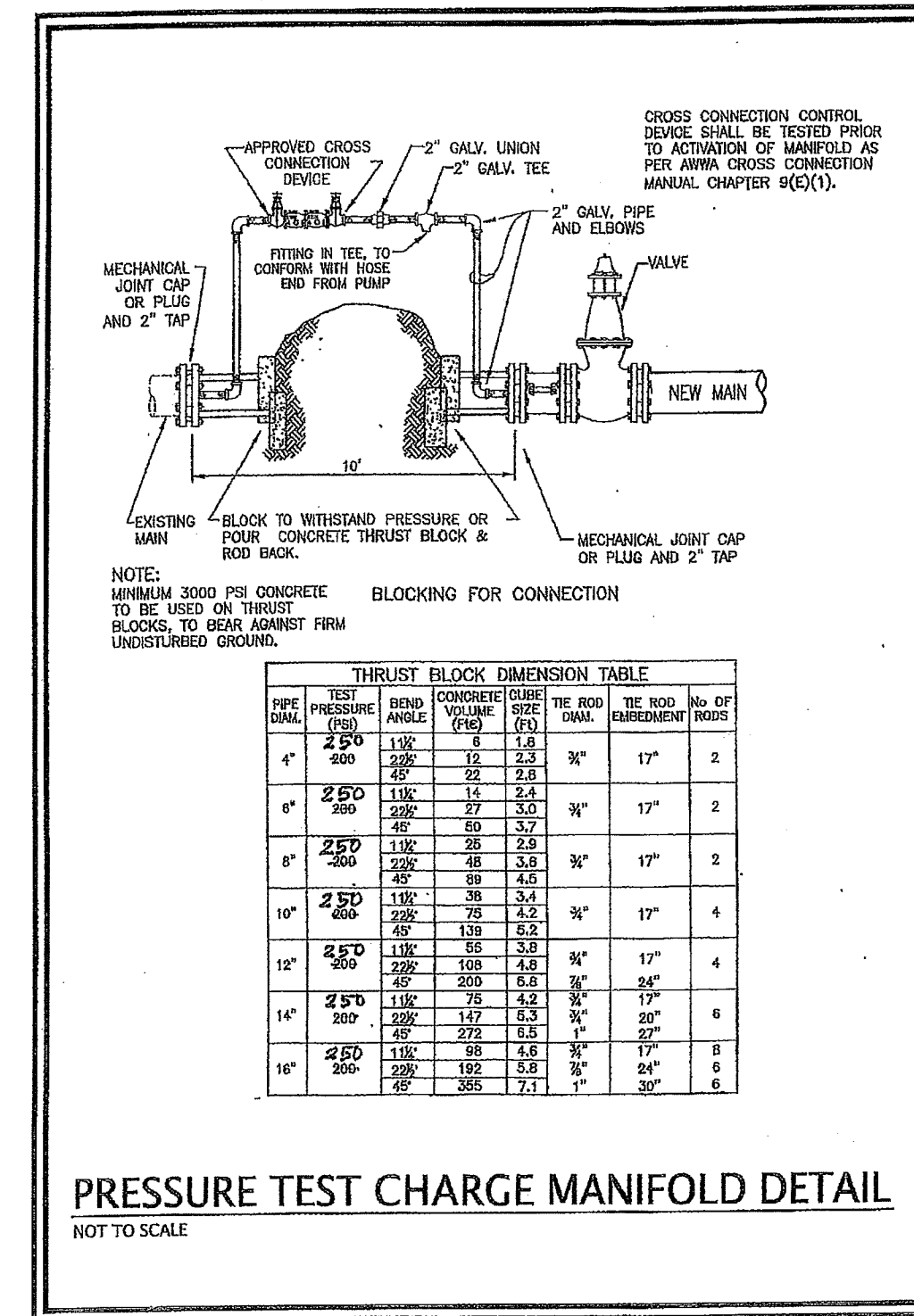
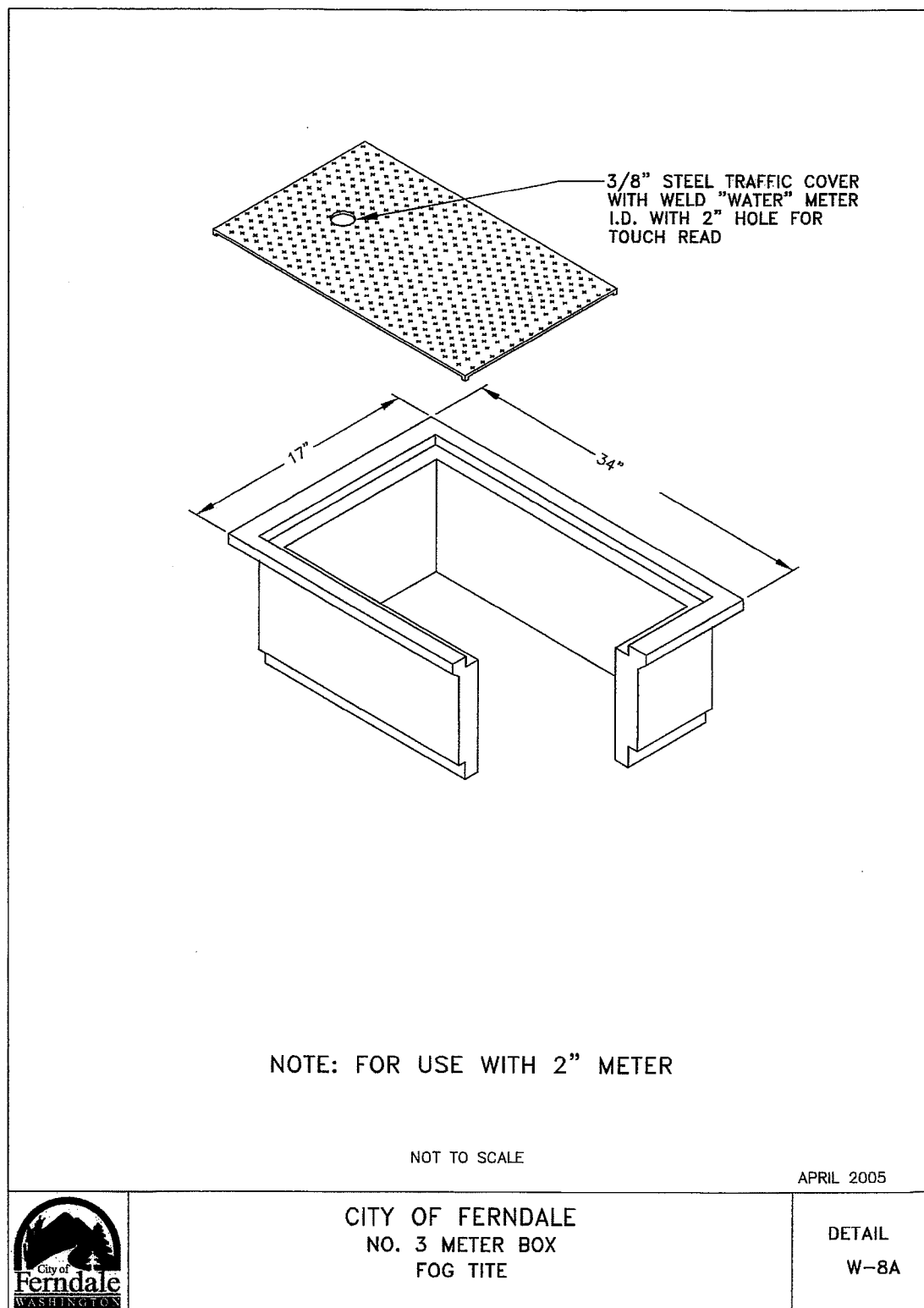
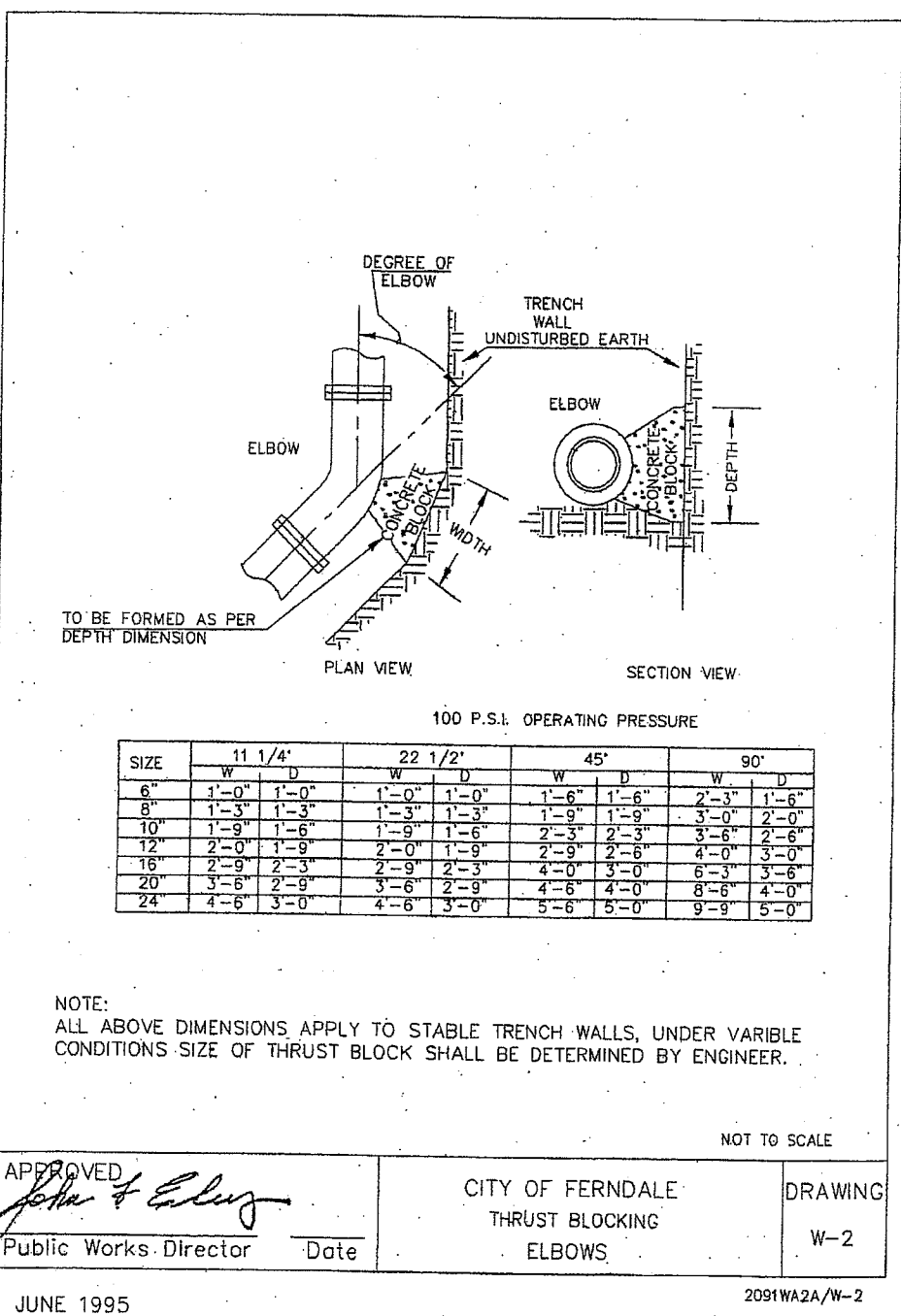
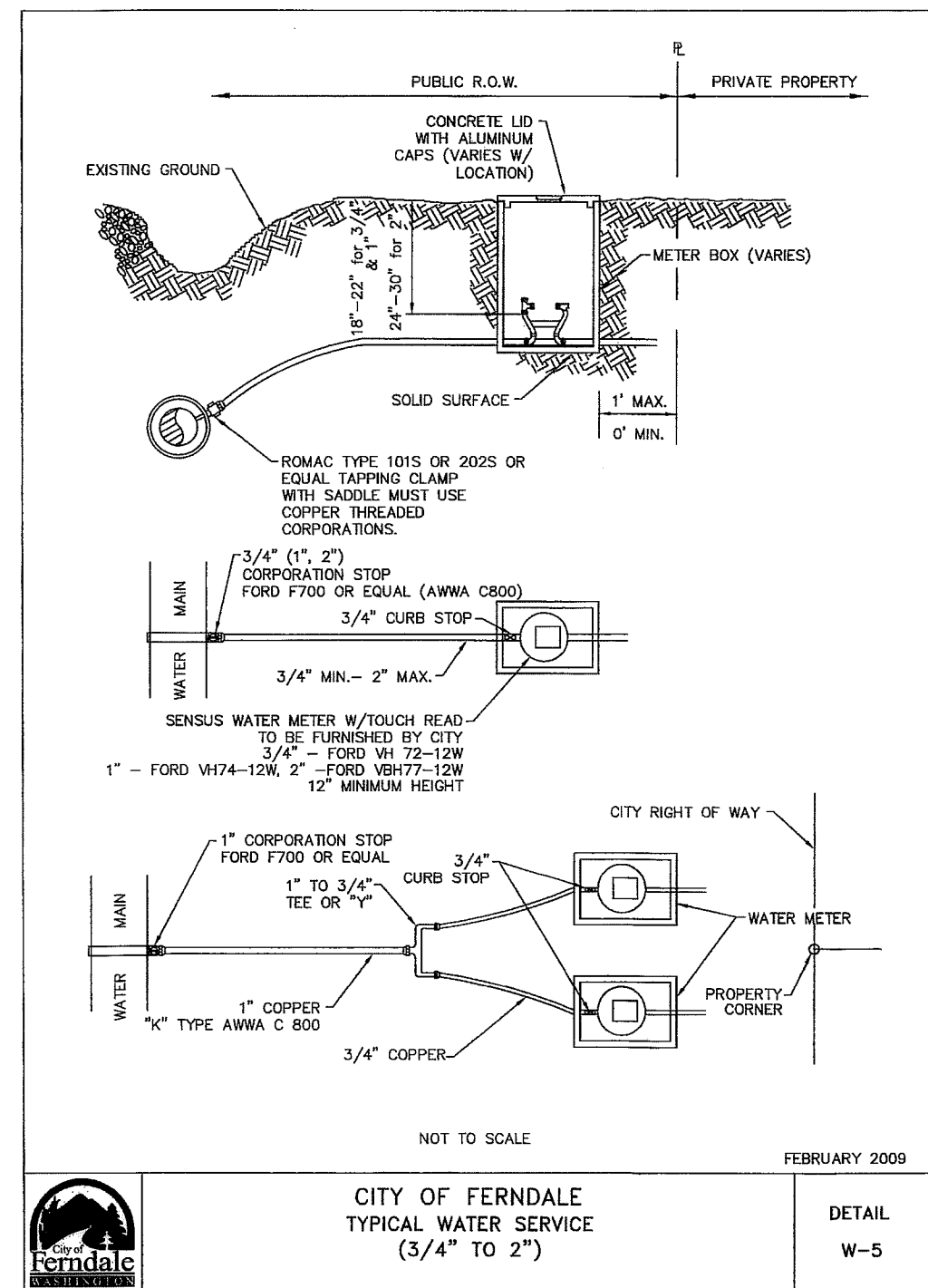
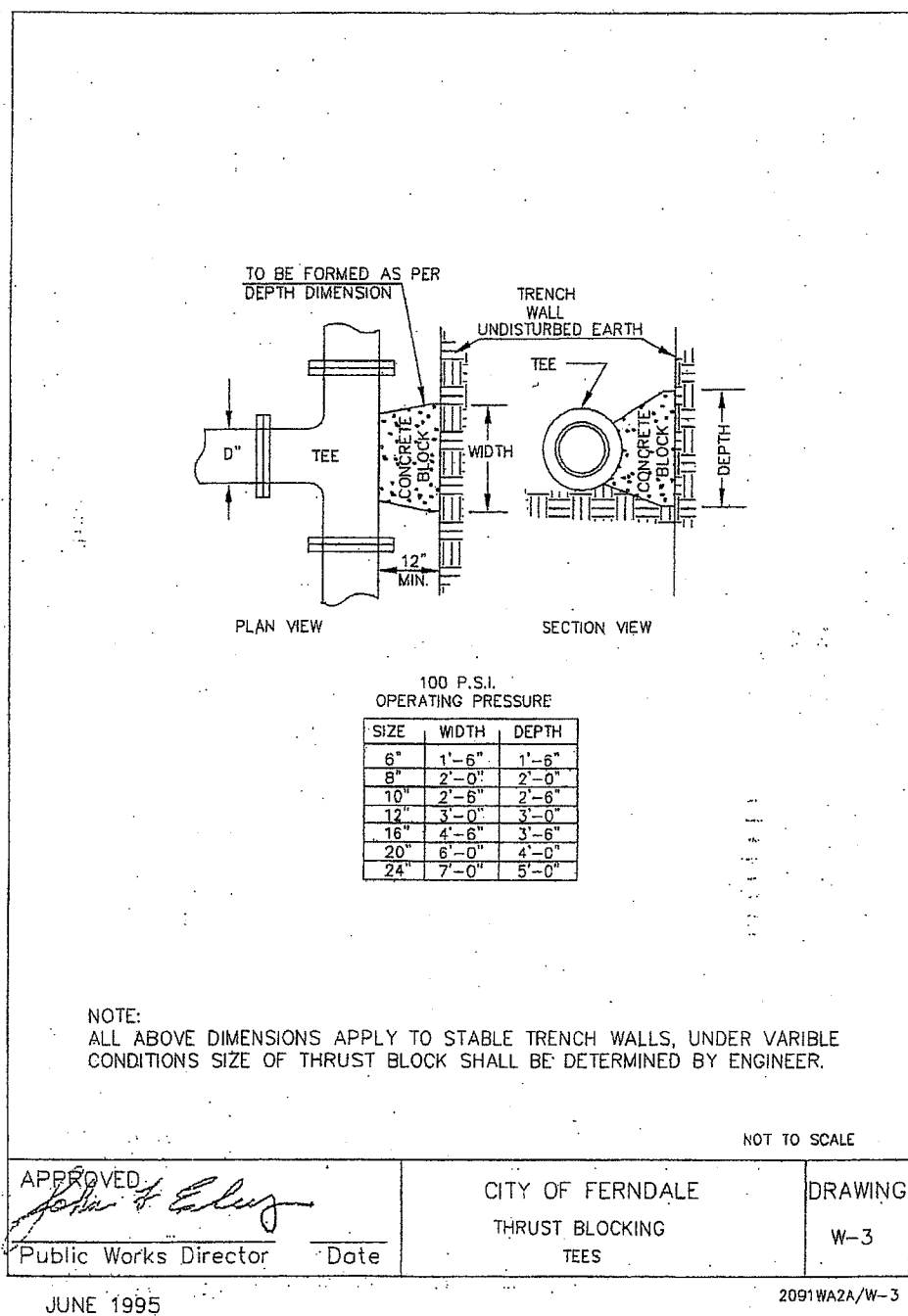
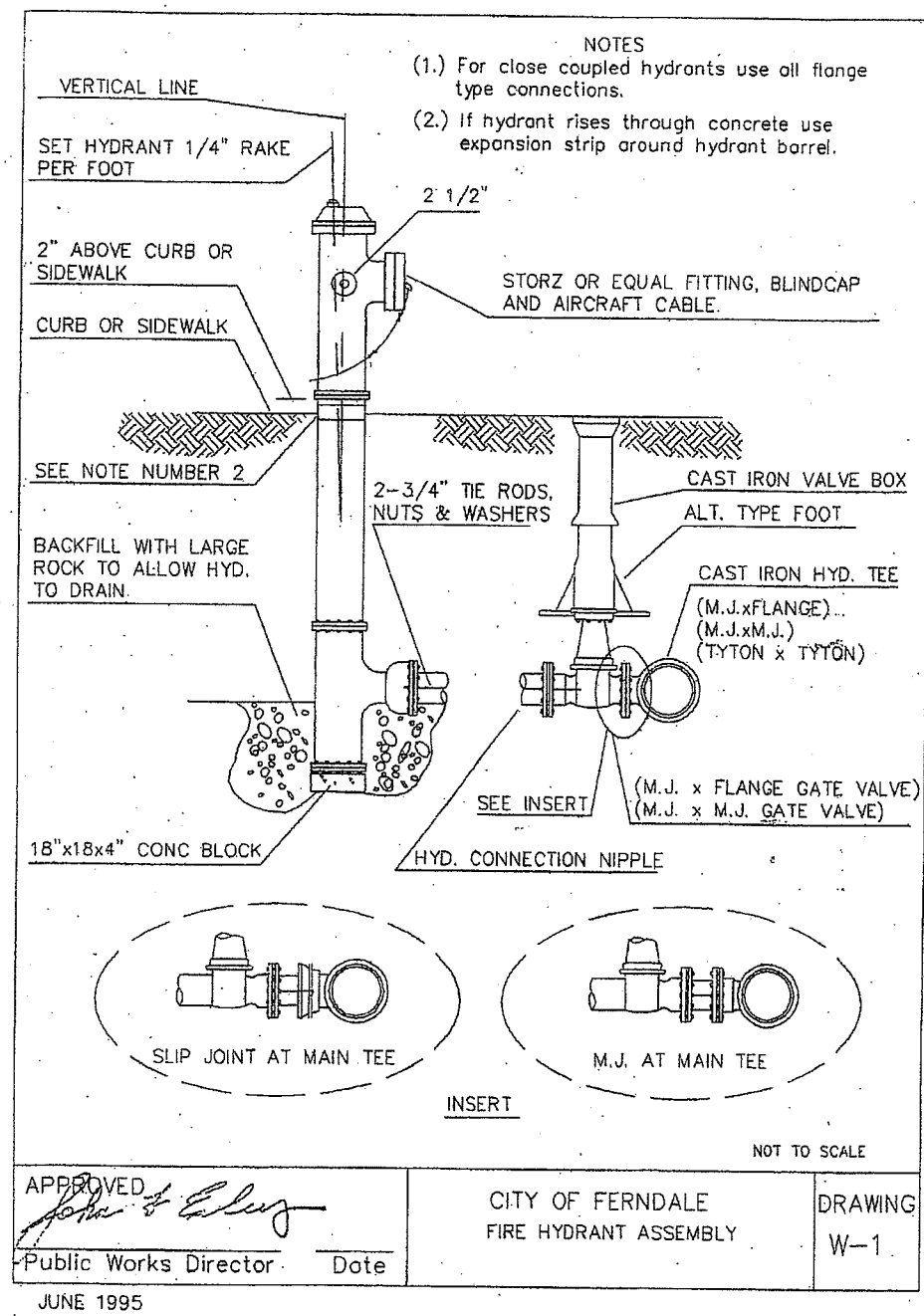
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JOB #: 09097  
SCALE: H: n/a V: n/a

DATE: 01-26-11  
SHEET: **C12**









ENGINEER'S CERTIFICATION:  
"I HEREBY CERTIFY THAT THE IMPROVEMENTS FOR THE SUPERFEET WORLD WIDE BUILDING HAVE BEEN INSPECTED BY FREELAND & ASSOCIATES, INC. AND TO THE BEST OF MY KNOWLEDGE, HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE CITY OF FERDALE DEVELOPMENT STANDARDS, THE CITY OF FERDALE MUNICIPAL CODE, SUBSEQUENT STANDARDS ADOPTED BY REFERENCE THEREIN, AND STANDARD ENGINEERING PRACTICE."

By: Man 4 Date: 2-9-11

APPROVED  
DEC 24 2012  
BY: *[Signature]* P.E.  
CITY OF FERDALE



AS-BUILT PLAN

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1-800-424-5555

No. Date REVISION

DESIGNED BY:  
HAF / JPS  
DRAWN BY:  
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Bellingham, WA 98225 f 360.650.1401  
**FREELAND & ASSOCIATES**

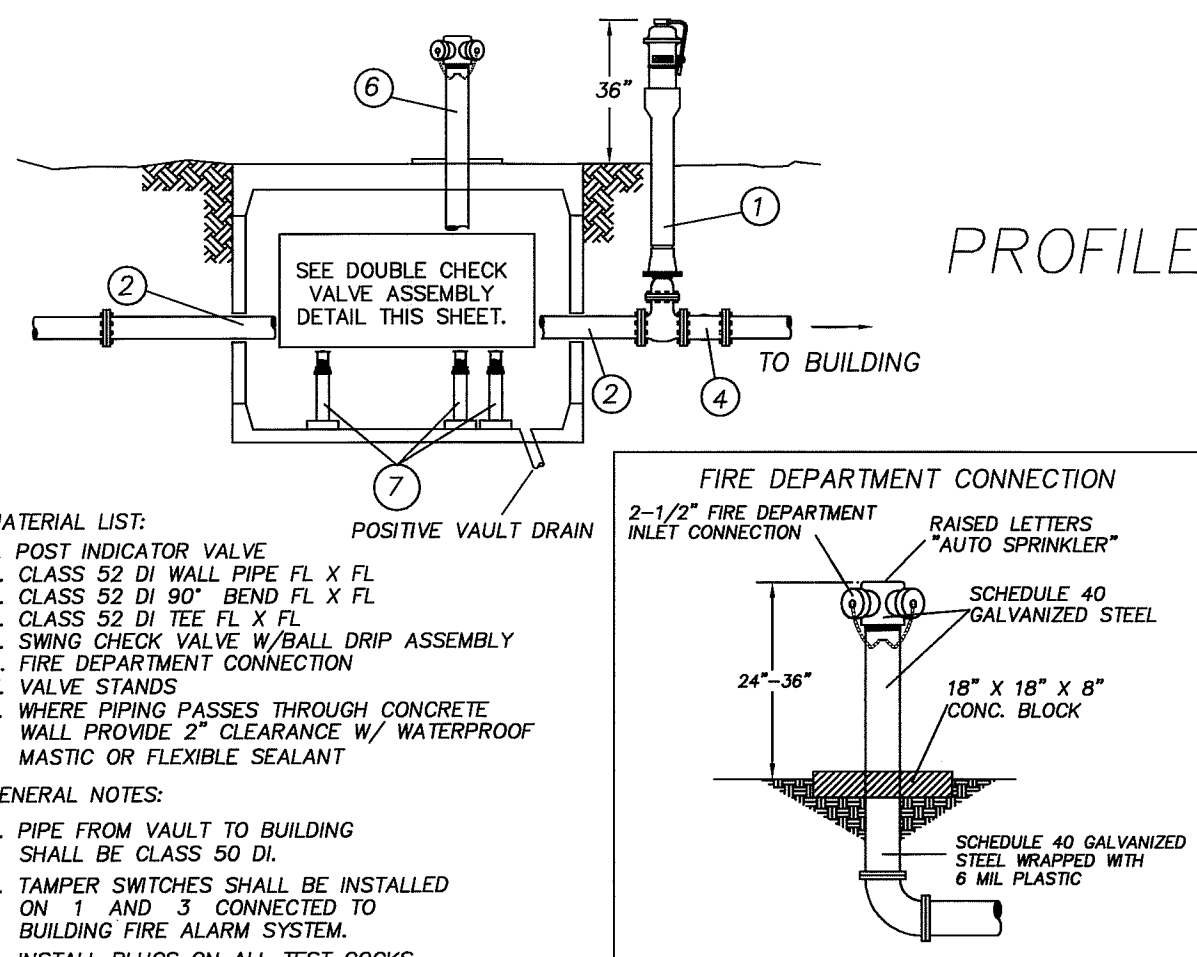
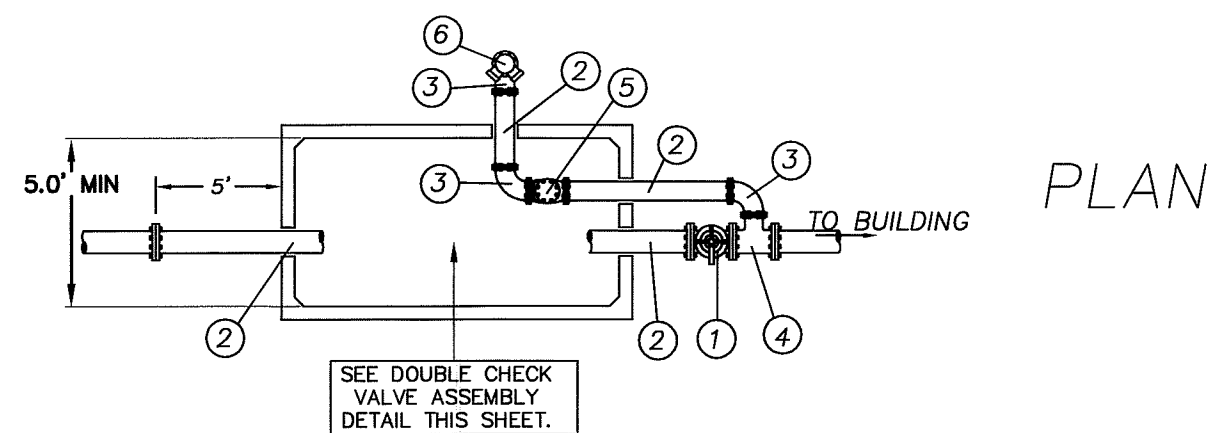
CLIENT: **SUPER FEET WORLD WIDE, INC**  
1419 WHITEHORN STREET  
FERDALE, WA 98248  
PROJECT LOCATION: FERDALE INDUSTRIAL PARK  
1820 SCOUT PLACE  
FERDALE, WA 98248

WATER DISTRIBUTION DETAILS

DWG #: 09097ASB3.DWG  
JOB #: 09097  
SCALE: H: n/a V: n/a

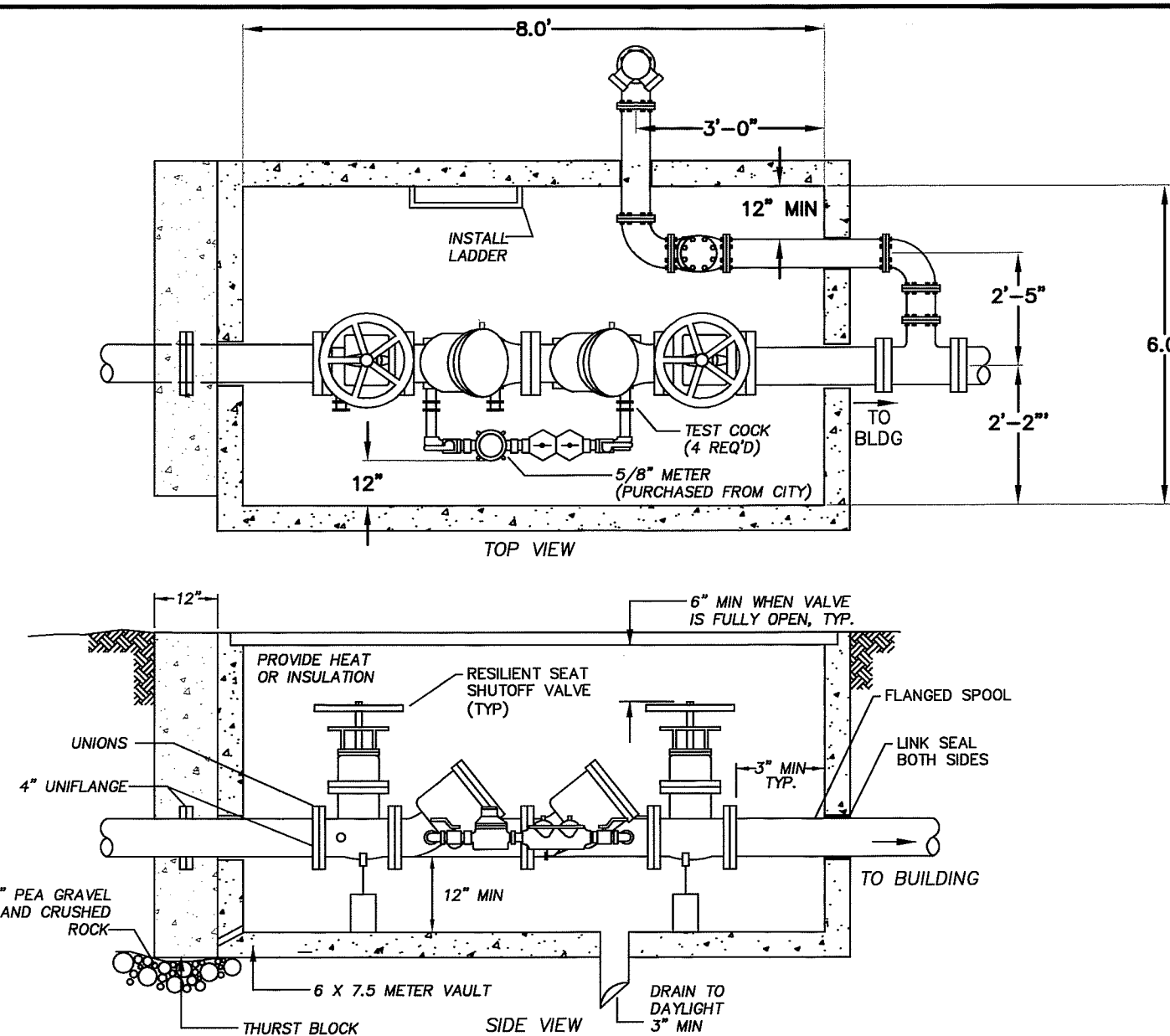
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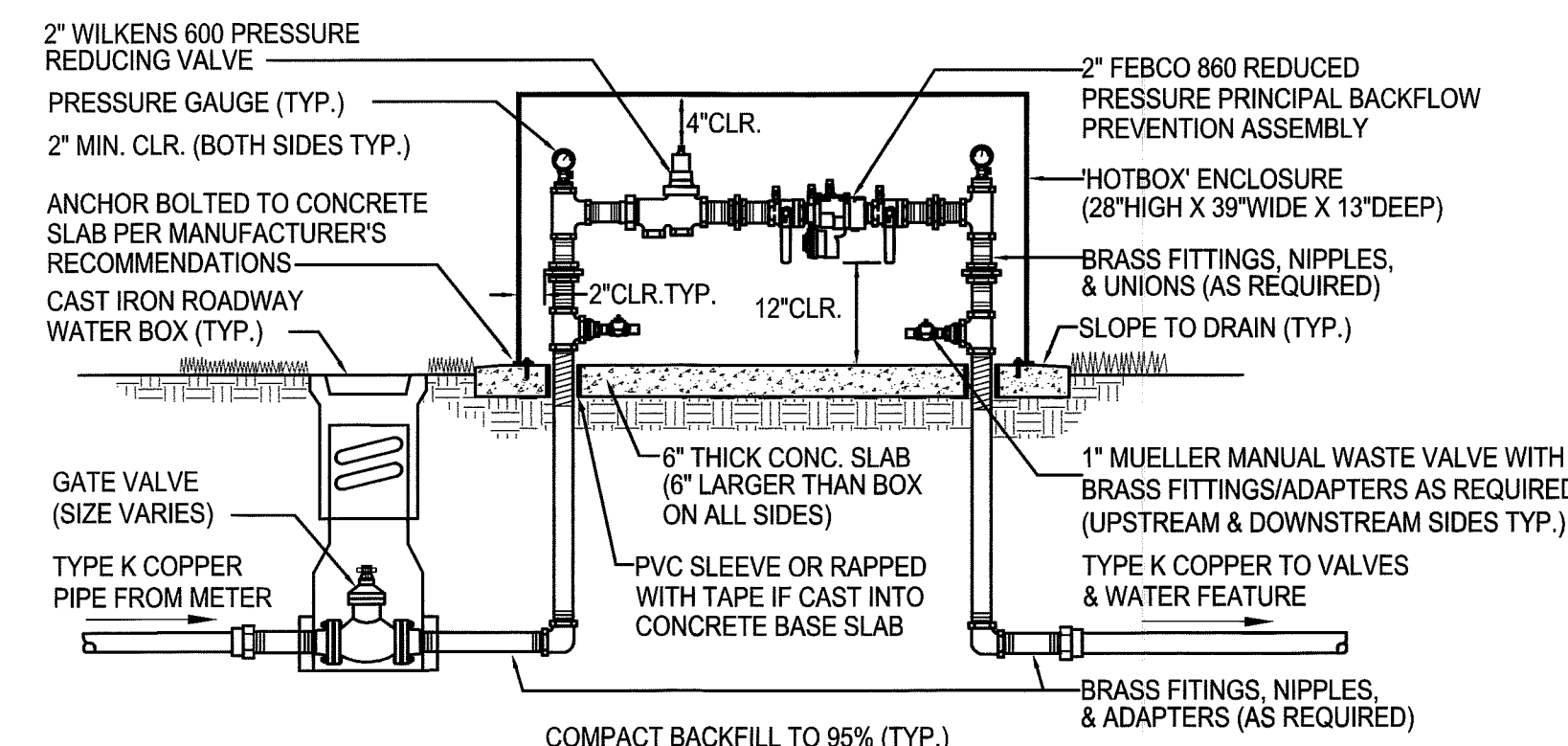
- MATERIAL LIST:**
1. POST INDICATOR VALVE
  2. CLASS 52 DI WALL PIPE FL X FL
  3. CLASS 52 DI 90° BEND FL X FL
  4. CLASS 52 DI TEE FL X FL
  5. SWING CHECK VALVE W/BALL DRIP ASSEMBLY
  6. FIRE DEPARTMENT CONNECTION
  7. VALVE STANDS
  8. WHERE PIPING PASSES THROUGH CONCRETE WALL PROVIDE 2" CLEARANCE W/ WATERPROOF MASTIC OR FLEXIBLE SEALANT
- GENERAL NOTES:**
- A. PIPE FROM VAULT TO BUILDING SHALL BE CLASS 50 DI.
  - B. TAMPER SWITCHES SHALL BE INSTALLED ON 1 AND 3 CONNECTED TO BUILDING FIRE ALARM SYSTEM.
  - C. INSTALL PLUGS ON ALL TEST COCKS. FINGER TIGHTEN.
  - D. ALL PIPING SHALL BE A MINIMUM OF 4" DIA. AS PER NP413.
  - E. FIRE SERVICES REQUIRE DETECTOR TYPE BACKFLOW PROTECTION ASSEMBLIES.

**A** DOUBLE CHECK VALVE ASSEMBLY WITH FDC  
nts

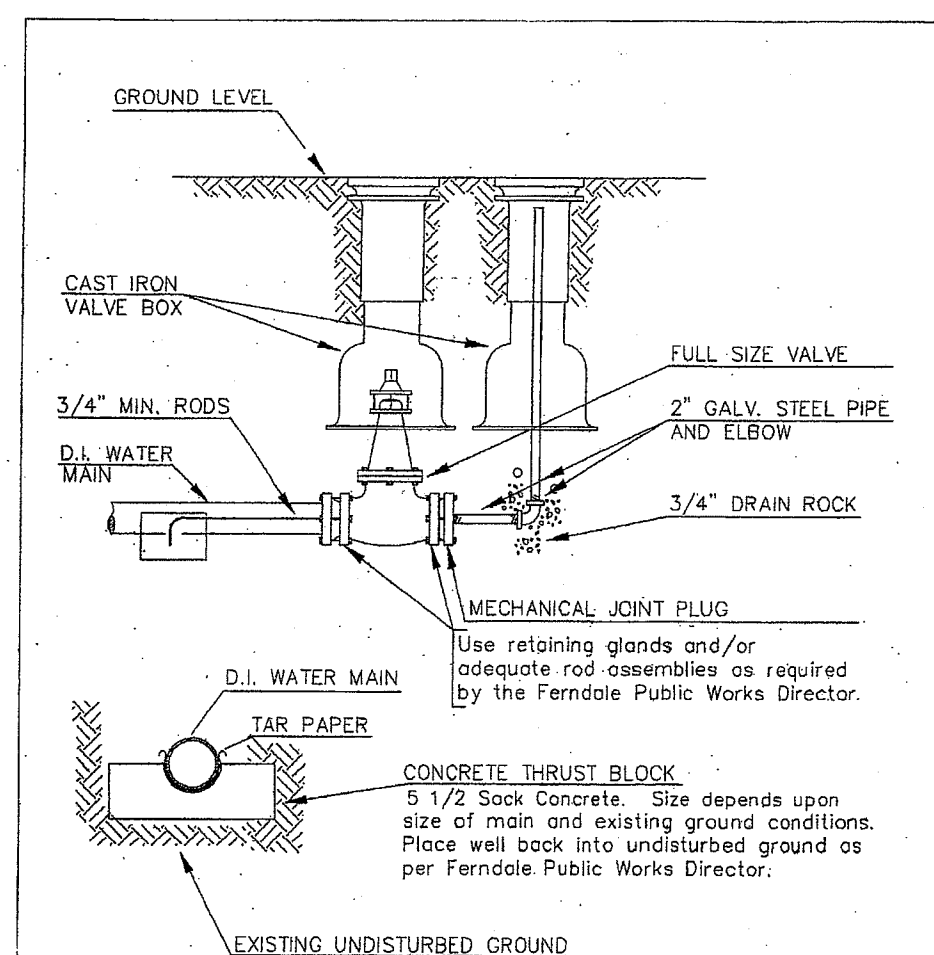


- NOTE: ALL ITEMS SHALL COMPLY WITH THE FOLLOWING**
- DOUBLE CHECK DETECTOR CHECK VALVE ASSEMBLY SHALL BE A WASHINGTON STATE DEPT. OF HEALTH APPROVED MODEL.
  - BACK FLOW ASSEMBLY SHALL BE AN APPROVED MODEL W/4 TEST COCKS AND A RESILIENT SEATED SHUT OFF VALVE MOUNTED AT EACH END.
  - THE WATER LINE SHALL BE DISINFECTED, FLUSHED, AND PRESSURE TESTED PRIOR TO INSTALLING THE BACK FLOW ASSEMBLY. THE BACK FLOW ASSEMBLY SHALL BE PROTECTED FROM FREEZING AND FLOODING.
  - THE BACK FLOW ASSEMBLY SHALL BE TESTED AFTER INSTALLATION AND PRIOR TO ACCEPTANCE AND ALSO YEARLY THEREAFTER BY A CERTIFIED BACK FLOW ASSEMBLY TESTER.
  - ALL PIPE VALVE AND FITTING JOINTS, FROM THE SUPPLY MAIN, SHALL BE FLANGED AND RESTRAINED.
  - FIRE DEPT. CONNECTION SHALL NOT EXIT THROUGH THE TOP OF THE VAULT.
  - GROUT PIPE ENTRANCE AND EXIT, IN VAULT, WITH WATERTIGHT GROUT.
  - ALL VAULTS SHALL BE PRE-APPROVED PRIOR TO INSTALLATION.
  - VAULTS SHALL BE INSTALLED AT PROPERTY LINE OR EASEMENT LINE AND ON OWNERS PROPERTY.
  - VAULTS SHALL HAVE A MINIMUM OF 3' CLEARANCE FROM ALL STRUCTURES.
  - REQUIRED FOR FIRE SUPPRESSION SYSTEMS.
  - BADGER METER ON BYPASS WITH A.M.R. (MODEL M25, 5/8" BRONZE METER), OR EQUIVALENT PURCHASED FROM CITY
- NOTE: IF WYE PATTERN- MUST LAY CHECKS HORIZONTAL W/GROUND AND TEST CHECKS FACING UP. 2" AND SMALLER.**

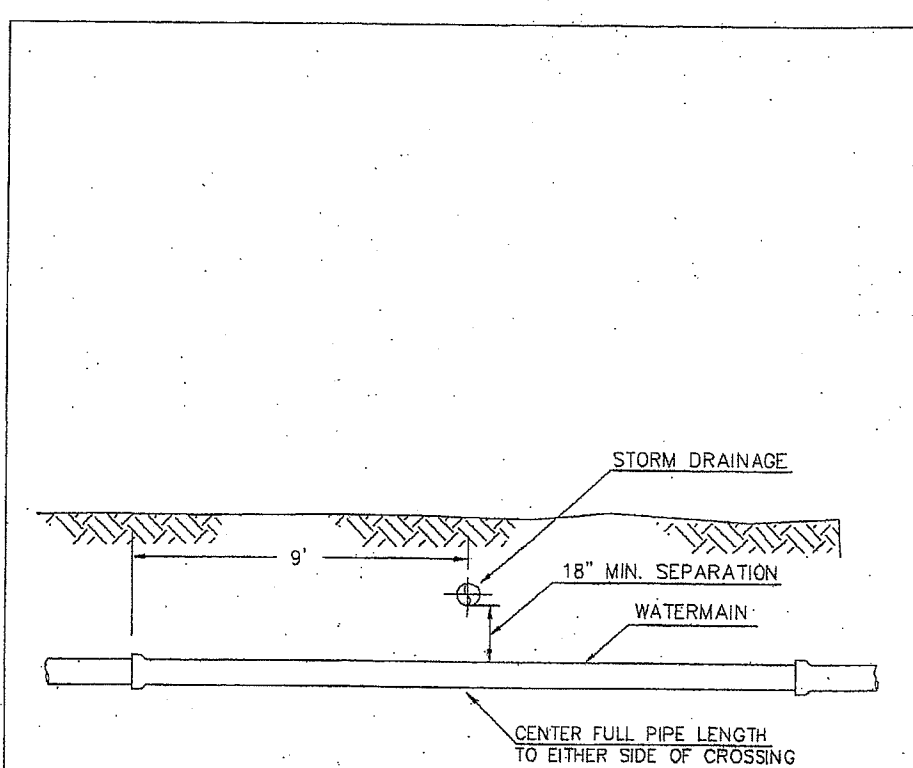
**B** DOUBLE CHECK DETECTOR CHECK VALVE ASSEMBLY  
nts



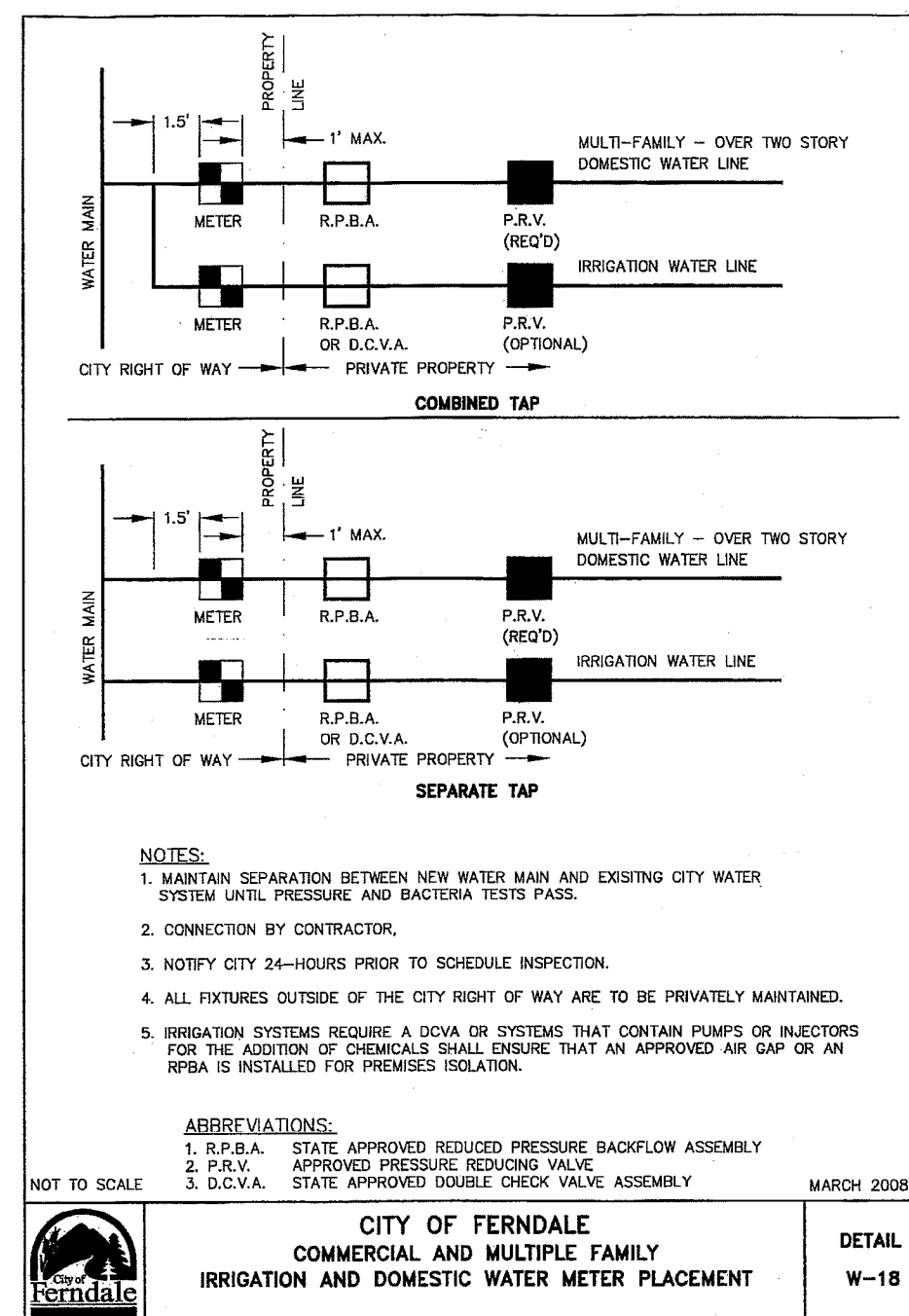
**C** REDUCED PRESSURE BACKFLOW ASSEMBLY  
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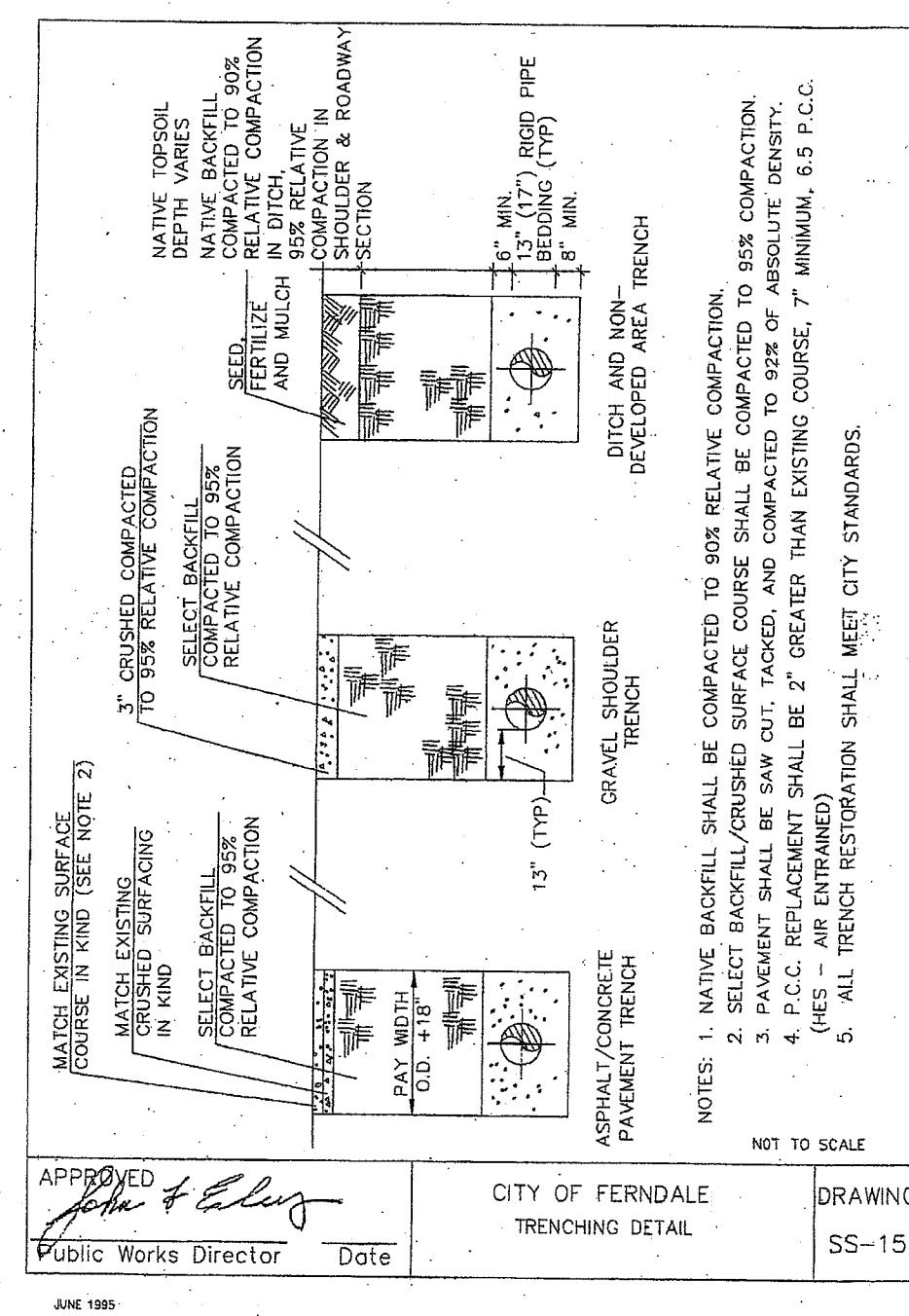
APPROVED *John & Elly* CITY OF FERNDAL Date Public Works Director W-9



APPROVED *John & Elly* CITY OF FERNDAL Date Public Works Director W-12



APPROVED *John & Elly* CITY OF FERNDAL Date Public Works Director W-18



APPROVED *John & Elly* CITY OF FERNDAL Date Public Works Director SS-15

ENGINEER'S CERTIFICATION:  
"I HEREBY CERTIFY THAT THE IMPROVEMENTS FOR THE SUPERFECT WORLD WIDE BUILDING HAVE BEEN INSPECTED BY FREELAND & ASSOCIATES, INC. 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."

By: *John & Elly* Date: *2-9-11*

APPROVED  
DEC 24 2012  
By: *John & Elly*, P.E.  
CITY OF FERNDAL



AS-BUILT PLAN

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1-800-424-5555

No. Date REVISION

DESIGNED BY:  
HAF / JPS  
DRAWN BY:  
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CLIENT: SUPER FEET WORLD WIDE, INC  
1419 WHITEHORN STREET  
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SHEET CONTENTS:  
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DWG #: 09097ASB3.DWG  
JOB #: 09097  
SCALE: H: n/a V: n/a  
DATE: 01-26-11  
SHEET: C15



GENERAL REQUIREMENTS:

1. 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 " (WSDOT SPECS.), THE CITY OF FERNDAL E DEVELOPMENT STANDARDS (COFDS) AND THE 2005 VERSION OF THE DEPARTMENT OF ECOLOGY STORM WATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON (DOE MANUAL). IN CASE OF A CONFLICT BETWEEN PLANS, REGULATORY STANDARDS OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT WILL PREVAIL.

2. 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.

3. THE CONTRACTOR MUST HAVE A FULL SET OF CITY CONTRACT DOCUMENTS ON THE SITE WHENEVER CONSTRUCTION IS IN PROGRESS.

4. CONSTRUCTION NOISE SHALL BE LIMITED TO BETWEEN 7 a.m. TO 8 p.m., MONDAY THROUGH SATURDAY.

5. 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. 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.

7. 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 IN CONFORMANCE WITH THE EROSION & SEDIMENTATION CONTROL PLAN AND THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE SWPPP SHALL BE ONSITE AT ALL TIMES DURING CONSTRUCTION ACTIVITIES.

8. SITE CLEARING SHALL INCLUDE THE LOCATION AND REMOVAL OF ALL ABOVE GROUND AND BURIED DEBRIS AND WASTE THAT MAY BE PRESENT.

9. THE CONTRACTOR SHALL OBTAIN REVOCABLE ENCROACHMENT PERMITS FROM THE CITY OF FERNDAL E AND/OR WHATCOM COUNTY PRIOR TO COMMENCING WORK WITHIN THE PUBLIC RIGHT-OF-WAY.

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

11. ALL WORK AND MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE CITY OF FERNDAL E PUBLIC WORKS DEPARTMENT, REPRESENTATIVES FROM THE CITY OF FERNDAL E 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:

A. PLACEMENT OF TEMPORARY EROSION CONTROL MEASURES.  
B. CONSTRUCTION OF STORMWATER MANAGEMENT FACILITIES.  
C. 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 FERNDAL E.  
D. PLACING OR BACKFILLING OF UNDERGROUND UTILITIES, STORM SEWER AND SANITARY SEWER WITHIN ROAD RIGHTS-OF-WAY, IN EASEMENTS TO BE DEDICATED TO THE CITY OF FERNDAL E, OR OTHER PUBLICLY SHARED FACILITIES.  
E. GRADING OF PUBLIC OR PRIVATE ROADWAY AT:  
1. COMPLETION OF EXCAVATION TO SUBGRADE.  
2. COMPLETION OF BALLAST COURSE PLACEMENT  
3. COMPLETION OF CRUSHED SURFACING COURSE PLACEMENT  
F. POURING OF CURB AND GUTTER AND SIDEWALK IN PUBLIC ROADWAY.  
G. ASPHALT PAVING IN PROGRESS IN PUBLIC ROADWAY.  
H. OVERALL INSPECTION FOR FINISHED SHOULDERS, DITCHES, PERMANENT SEEDING AND MONUMENT PLACEMENT.  
I. END OF MAINTENANCE PERIOD

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE AT LEAST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED. A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE CITY FOR APPROVAL PRIOR TO PERFORMING THE WORK. ALL SECTIONS OF THE WSDOT STANDARD SPECIFICATIONS 1-07.23- TRAFFIC CONTROL, SHALL APPLY.

13. THE CONTRACTOR SHALL INFORM THE ENGINEER AND OBTAIN APPROVAL FROM THE CITY OF FERNDAL E PUBLIC WORKS DIRECTOR OF ANY PROPOSED DEVIATION FROM THE APPROVED PLANS PRIOR TO CONSTRUCTION OF THE REVISED IMPROVEMENTS. THE CONTRACTOR SHALL KEEP RECORDS OF ALL DEVIATIONS AND SHALL FORWARD THEM TO THE ENGINEER AND TO THE CITY OF FERNDAL E PUBLIC WORKS DEPARTMENT.

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

UNDERGROUND UTILITIES CONSTRUCTION

A. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE ENGINEER 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 PROJECT ENGINEER AT LEAST 48-HOURS BEFORE BURYING UNDERGROUND PIPE TO ASSURE AND FACILITATE REQUIRED AS-BUILT SURVEY.

B. THE CONSTRUCTION OF UNDERGROUND UTILITY LINES SHALL BE SUBJECT TO THE FOLLOWING CRITERIA:

i. NO MORE THAN 500 FEET OF TRENCH SHALL BE OPENED AT ONE TIME.  
ii. WHERE CONSISTENT WITH SAFETY AND SPACE CONSIDERATIONS, EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF DITCHES.  
iii. TRENCH DEWATERING DEVICES SHALL DISCHARGE INTO SEDIMENT TRAPS OR SEDIMENT PONDS.  
iv. WHERE PRACTICAL, INSTALL GRAVITY PIPE UTILITIES PRIOR TO INSTALLATION OF OTHER UTILITIES.

C. UTILITY CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF FERNDAL E DEVELOPMENT STANDARDS.

D. ALL UTILITY TRENCHES IN THE RIGHT OF WAY SHALL BE BACKFILLED WITH ¾-INCH MINUS OR 5/8-INCH MINUS WELL GRADED CRUSHED ROCK.

E. TESTING OF NEW WATER LINES, STORM SEWER SYSTEMS SHALL NOT BE PERFORMED UNTIL ALL OTHER ADJACENT UTILITIES HAVE BEEN INSTALLED.

F. ALL UTILITY TRENCHES SHALL BE BACKFILLED AND COMPACTED TO 95% DENSITY IN LIFTS NOT TO EXCEED 24 INCHES WITH A ¾-HOE PACK, OR 8 INCHES WITH HAND-OPERATED COMPACTION. \*

G. 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 FERNDAL E STANDARD TRENCH DETAIL(S). ALL UTILITY TRENCHES UNDERNEATH AN EXISTING ROADWAY SHALL BE BACKFILLED WITH 150 PSI CONTROLLED DENSITY FILL.

H. NO PART OF THE DRAINAGE SYSTEM MAY BE COVERED, CONCEALED, OR PUT INTO USE UNTIL IT HAS BEEN INSPECTED, TESTED, AND ACCEPTED BY THE CITY INSPECTOR.

EARTHWORK

A. 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.

B. THE CONTRACTOR SHALL EXCAVATE AND GRADE TO THE ALIGNMENT, GRADE AND CROSS-SECTIONS SHOWN IN THE PLANS OR ESTABLISHED BY THE ENGINEER.

C. UNSUITABLE 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.

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

BASE COURSES & CRUSHED SURFACING

A. GRAVEL BASES AND BALLAST MATERIAL GRADATION SHALL MEET WSDOT STANDARD SPECIFICATIONS.

B. BALLAST, GRAVEL BASE AND CRUSHED SURFACING SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DRY DENSITY.

C. THE GRADED AND COMPACTED SURFACE OF THE CRUSHED SURFACING TOP COURSE SHALL BE WITHIN ½ INCH OF FINISHED GRADE.

D. 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

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

CATCH BASINS TYPE 1, 1L OR 2 WSDOT STD. DETAILS B-5.20, B-5.40 OR B-10.20  
"RESIDENTIAL SERVICE LINE" COFSD ST-15 (CITY OF FERNDAL E STD DETAIL)  
INLET & THRU CURB INLET COFSD ST-7 & ST-8

2. STORM SEWER PIPE HAVING DIAMETERS GREATER THAN 8" SHALL BE CORRUGATED POLYETHYLENE PIPE (CPEP), ALL OTHER STORM SEWER PIPE SHALL BE PVC.

3. ALL CATCH BASIN GRATES SHALL INCLUDE THE STAMPING "OUTFALL TO STREAM, DUMP NO POLLUTANTS".

4. 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.

5. 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.

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

WATER

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

PIPE BEDDING COFSD W-11  
TRENCH BACKFILL COFSD W-11  
FIRE HYDRANT ASSEMBLY COFSD W-1  
THRUST BLOCKING COFSD W-2, W-3 & W-4  
WATER SERVICE COFSD W-5

2. ALL WORK AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF FERNDAL E DEVELOPMENT STANDARDS, SECTIONS 702 AND 705 AND THE MOST RECENT VERSION OF WSDOT STANDARD SPECIFICATIONS.

3. ALL WATER MAIN PIPE SHALL BE DUCTILE IRON, MINIMUM THICKNESS CLASS 50, PER AWWA STANDARDS H3-71 AND C151-71, WITH CEMENT LINING PER AWWA STANDARD C104-71.

4. MATERIAL FOR FITTINGS SUCH AS CROSSES, TEES, BENDS, REDUCERS AND SLEEVES SHALL BE DUCTILE IRON. JOINTS SHALL BE M.J., FLANGED OR PUSH-ON JOINTS AND SHALL CONFORM TO AWWA SPECIFICATIONS C-110-71 AND C-104-71.

5. CONCRETE BLOCKING SHALL BE AS SPECIFIED IN CITY OF FERNDAL E STANDARD DETAILS W-2, W-3 AND W-4, OR AS DIRECTED BY THE PROJECT ENGINEER. BLOCKS SHALL BE INSTALLED AS SPECIFIED IN SECTION 7-09.3(21) OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE OR MUNICIPAL CONSTRUCTION. NO PRE-CAST BLOCKS ARE ALLOWED.

6. CONNECTIONS TO EXISTING WATER MAINS - THE CONTRACTOR MUST NOTIFY THE CITY OF FERNDAL E PUBLIC WORKS DIRECTOR OF A PROPOSED CONNECTION AT LEAST FOUR WORKING DAYS IN ADVANCE.

7. ALL HYDROSTATIC TESTING AND DISINFECTION OF WATER MAINS SHALL CONFORM TO SECTION 7-09.3(23) AND SECTION 7-09.3(24) OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE OR MUNICIPAL CONSTRUCTION - CURRENT EDITION. HYDROSTATIC TEST PRESSURE FOR WATER MAIN ACCEPTANCE SHALL BE 250 PSI AND SHALL BE DONE ACCORDING TO CITY OF FERNDAL E REQUIREMENTS. THE CITY OF FERNDAL E LABORATORY SHALL CONDUCT ALL DISINFECTION TESTS AND BACTERIOLOGICAL TESTS. THE PIPE WILL NOT PASS TESTING UNLESS A ZERO BACTERIAL COUNT IS MEASURED ON TWO CONSECUTIVE TESTS, CONDUCTED 24 HOURS APART.

8. 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.

9. ALL PIPE SHALL HAVE A MINIMUM COVER OF 36".

10. ALL VALVES SHALL BE EITHER GATE OR BUTTERFLY TYPE VALVES AND SHALL BE INSTALLED WITH SLIP TYPE CAST IRON VALVE BOXES. GATE VALVES SHALL BE USED FOR LINES 2 INCHES THROUGH 10 INCHES IN DIAMETER. SHORT-BODY 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 AWWA C509 AND SUITABLE FOR SERVICE WITH THE TYPE AND CLASS OF PIPE USED. ALL VALVES SHALL HAVE NON-RISING STEMS AND SHALL OPEN COUNTERCLOCKWISE 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.

11. WATER SERVICE TAP INSTALLATIONS SHALL MEET THE REQUIREMENTS OF THE COFDS W-5.

12. FIRE HYDRANTS AND FIRE MAINS MUST CONFORM TO COFDS- SD W-1 (WSDOT B-19) AND THE FOLLOWING STANDARDS:

A. 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.H. 929T HYDRANTS.

B. 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.

C. IF THE PUBLIC WORKS DIRECTOR DETERMINES THAT FIRE HYDRANTS ARE VULNERABLE TO VEHICULAR DAMAGE, APPROPRIATE CRASH POSTS SHALL BE PROVIDED. NO OBSTRUCTIONS SHALL EXIST WITHIN A 3-FOOT WORKING AREA OF EACH REQUIRED ACCESS. CRASH POSTS SHALL BE 4" CEMENT-FILLED PIPE A MIN. OF 3' IN HEIGHT WITH A MIN. OF 2" OF PIPE BELOW GRADE. HYDRANT SHUTOFF VALVES SHALL BE LOCATED BETWEEN 5' AND 20' FROM THE HYDRANT.

D. 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.

E. 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

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

TYPICAL STREET SECTION (PER PROJECT)  
PCC CURB AND GUTTER COFSD R-9  
PCC SIDEWALKS COFSD R-12 (SEE CONSTRUCTION DOCUMENTS TYPICAL SECTION)  
PCC CURB RAMPS WSDOT STD. DETAIL F-40.

2. 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.

3. 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.

4. ASPHALT CONCRETE PAVEMENT SHALL BE CLASS "B" MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, SECTION 5-04, EXCEPT AS MODIFIED HEREIN. CONNECTION TO EXISTING PAVEMENT SHALL BE TO A STRAIGHT NEATLY-TRIMMED LINE.

5. CRUSHED ROCK SURFACING FOR PAVEMENT SHALL BE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION, SECTION 9-03.9(3); BALLAST PER SECTION 9-03.9(1).

6. CEMENT CONCRETE SHALL BE CLASS 3000 (WITH AIR ENTRAINMENT) IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION, SECTION 6-02.3(2)B.

7. CEMENT CONCRETE SIDEWALK SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS OR AS DESIGNATED BY THE ENGINEER IN ACCORDANCE WITH CITY STANDARDS, DRAWING NO. R-12.

8. CEMENT CONCRETE DRIVEWAYS SHALL BE 6 INCHES THICK AND CONSTRUCTED WHERE SHOWN ON THE PLANS OR DESIGNATED BY THE ENGINEER IN ACCORDANCE WITH THE CITY STANDARDS, DRAWING NO. R-15. A 2- INCH LATER OF 3/4 INCH DRAIN ROCK SHALL BE USED FOR DRIVEWAY BEDDING.

9. CEMENT CONCRETE CURB AND GUTTER SHALL BE CONSTRUCTED WHERE SHOWN ON THE PLANS OR AS DESIGNED BY THE ENGINEER, IN ACCORDANCE WITH WSDOT STANDARDS SPECIFICATIONS, SECTION 8-04 AND CITY OF FERNDAL E STANDARDS, DRAWING R-8 AND R-9. HANDICAP RAMPS SHALL BE CONSTRUCTED PER WSDOT STANDARD PLANS F-40. WHERE NEW CEMENT CONCRETE CURB AND GUTTER IS 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.

10. PAVEMENT:

A. SOIL RESIDUAL HERBICIDE SHALL BE PLACED WITHIN 24 HOURS OF PAVING.  
B. A TACK COAT OF ASPHALT SHALL BE APPLIED BETWEEN ALL COURSES OF ASPHALT.  
C. 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 PETROTAC PAVING FABRIC, OR EQUIVALENT, OVER JOINT BETWEEN PAVING LIFTS.

11. THRU-CURB BASINS AND THRU-CURB INLETS CONFORMING TO THE WSDOT STANDARD SPECIFICATIONS, SECTION 7-05 SHALL BE CONSTRUCTED AT THE LOW POINT OF THE CURB FLOW LINES AND TO THE LOCATIONS, DIMENSIONS, AND DETAILS AS SHOWN ON THE PLANS OR DESIGNATED BY THE ENGINEER AND CITY STANDARDS, DRAWING NO. R-8.

12. TRENCH EXCAVATIONS, BEDDING AND PIPE FOR STORMWATER PIPE LAYING SHALL BE IN ACCORDANCE WITH THE WSDOT STANDARD SPECIFICATIONS, SECTION 7-08.

13. STORM SEWER PIPE CONSTRUCTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION, SECTION 7-04. MATERIAL SHALL BE HANCOR SURE-LOK F477 PIPE OR CITY APPROVED EQUAL. LOTS' STORM DRAIN SERVICE LINE SHALL BE 6" PVC PER WSDOT STANDARD SPECIFICATION, SECTION 9-05.1(5).

14. PERFORATED UNDERDRAIN PIPE SHALL MEET THE WSDOT STANDARD SPECIFICATION 7-01.3(2).

SEWER

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY OF FERNDAL E STANDARD SPECIFICATIONS AND DETAILS, A.P.W.A. STANDARD SPECIFICATION, AND WSDOT STANDARD SPECIFICATIONS, MOST RECENT EDITIONS. SANITARY SEWER SYSTEM INSTALLATION, BOTH PUBLIC AND PRIVATE, IS SUBJECT TO CITY REVIEW AND APPROVAL.

2. ALL WORK MUST BE INSPECTED TO THE SATISFACTION OF THE CITY OF FERNDAL E. 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 FERNDAL E REPRESENTATIVE.

3. SANITARY SEWER MAINS SHALL BE A MINIMUM 8 INCH DIAMETER PVC PIPE (SDR-35) CONFORMING TO THE PROVISIONS OF ASTM D 3034 AND INSTALLED TO CITY SPECIFICATIONS.

4. 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% MODIFIED PROCTOR. USE OF SUITABLE NATIVE BACKFILL OUTSIDE OF TRAVELED WAY SHALL BE SUBJECT TO APPROVAL BY THE CITY.

5. ALL MANHOLES SHALL BE INSTALLED PER CITY OF FERNDAL E STANDARD DETAILS AND SHALL BE PRE CHANNELLED. MANHOLE CONES ARE TO BE OFFSET SUCH THAT LADDER RUNGS ARE PARALLEL TO THE FLOW.

6. ALL SIDE SEWERS SHALL BE INSTALLED PER CITY OF FERNDAL E STANDARD DETAILS SS-6, SS-8, OR SS-13, EXCEPT THAT SINGLE SIDE SEWERS SHALL HAVE A MINIMUM DIAMETER OF 4".

7. CONTRACTOR SHALL EXTEND SEWER STUBS 5 FT BEYOND UTILITY CORRIDOR OR 15 FEET BEYOND RIGHT-OF-WAY LINE.

8. EACH SIDE SEWER STUB SHALL BE CAPPED WITH AN WATERTIGHT PLUG. EACH STUB SHALL BE MARKED FOR LOCATION WITH A 2" DIAM. 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.

APPROVED

DEC 24 2012  
By: *J. M. P.E.*  
CITY OF FERNDAL E

ENGINEER'S CERTIFICATION:  
"I HEREBY CERTIFY THAT THE IMPROVEMENTS FOR THE SUPERFEET WORLD WIDE BUILDING HAVE BEEN INSPECTED BY FREELAND & ASSOCIATES, INC. AND TO THE BEST OF MY KNOWLEDGE, HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE CITY OF FERNDAL E DEVELOPMENT STANDARDS, THE CITY OF FERNDAL E MUNICIPAL CODE, SUBSEQUENT STANDARDS ADOPTED BY REFERENCE THEREIN, AND STANDARD ENGINEERING PRACTICE."

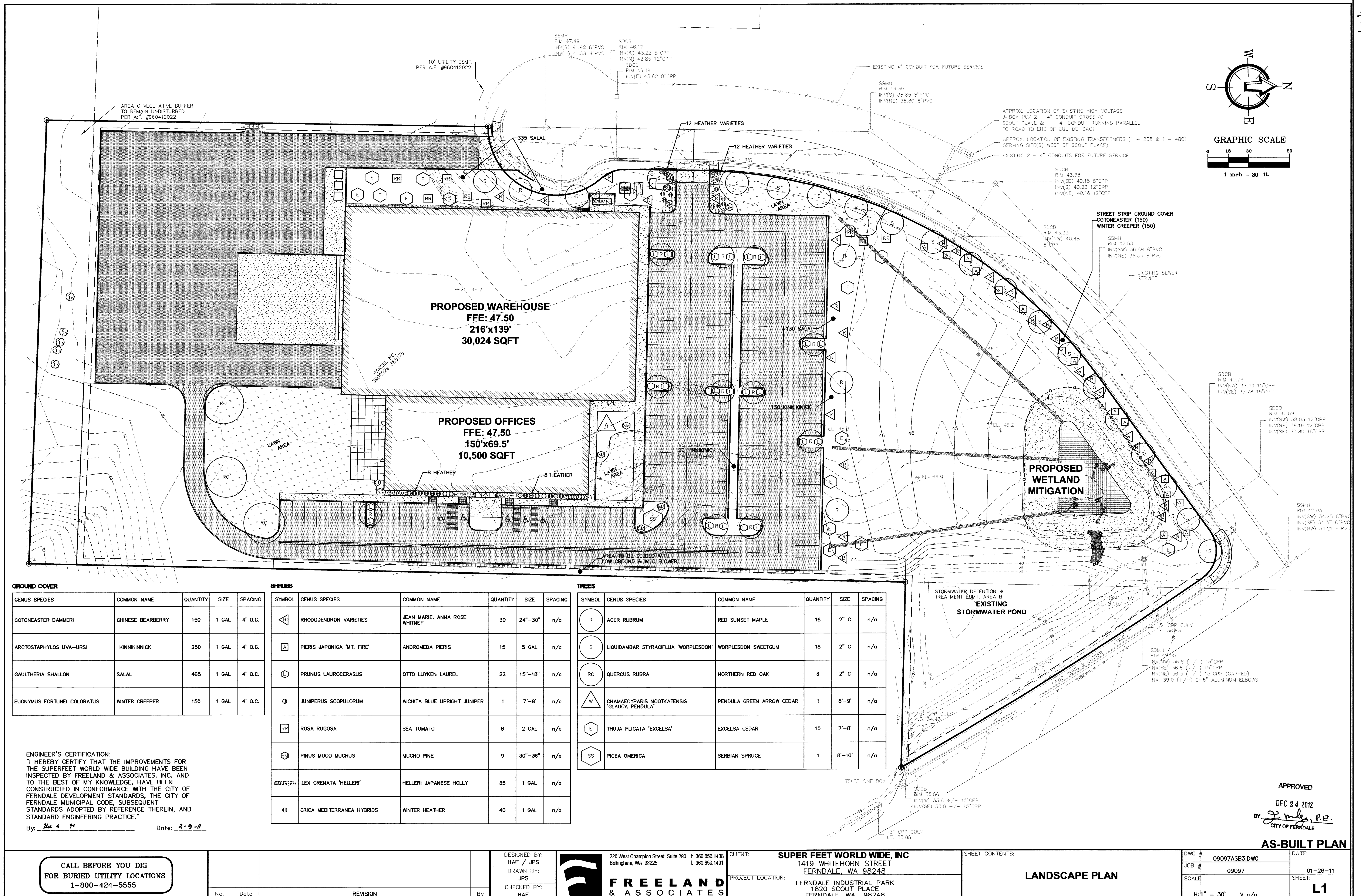
By: *Jim A. J.* Date: *2-9-11*



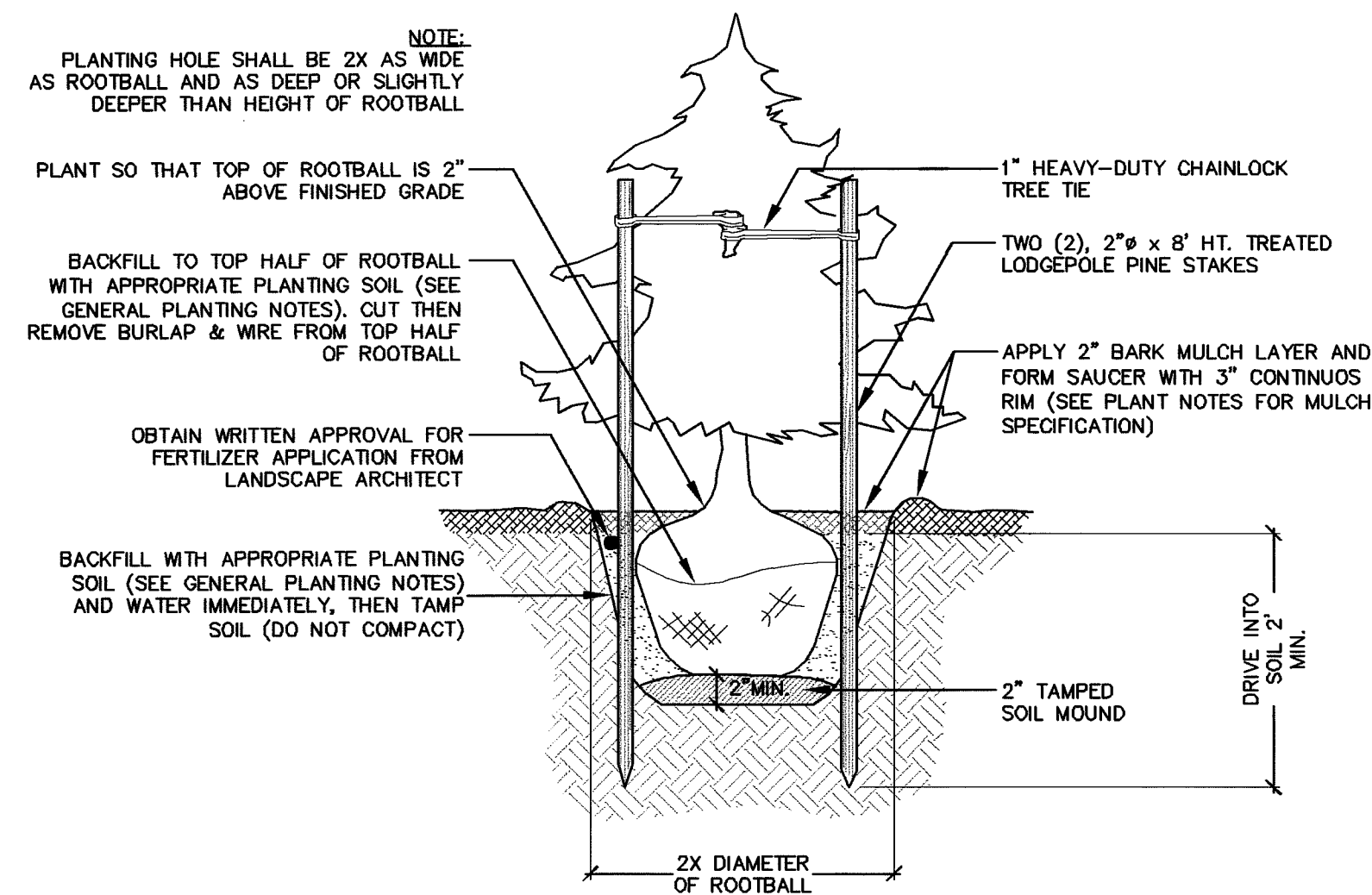
AS-BUILT PLAN

CALL BEFORE YOU DIG FOR BURIED UTILITY LOCATIONS 1-800-424-5555		No.	Date	REVISION	By	DESIGNED BY: HAF / JPS DRAWN BY: JPS CHECKED BY: HAF	 220 West Champion Street, Suite 290 Bellingham, WA 98225 t: 360.650.1408 f: 360.650.1401	CLIENT: <b>SUPER FEET WORLD WIDE, INC</b> 1419 WHITEHORN STREET FERNDAL E, WA 98248	PROJECT LOCATION: FERNDAL E INDUSTRIAL PARK 1820 SCOUT PLACE FERNDAL E, WA 98248	SHEET CONTENTS:  <b>GENERAL NOTES</b>	DWG #: 09097ASB3.DWG JOB #: 09097 SCALE: H: n/g V: n/g	DATE: 01-26-11 SHEET: <b>C16</b>
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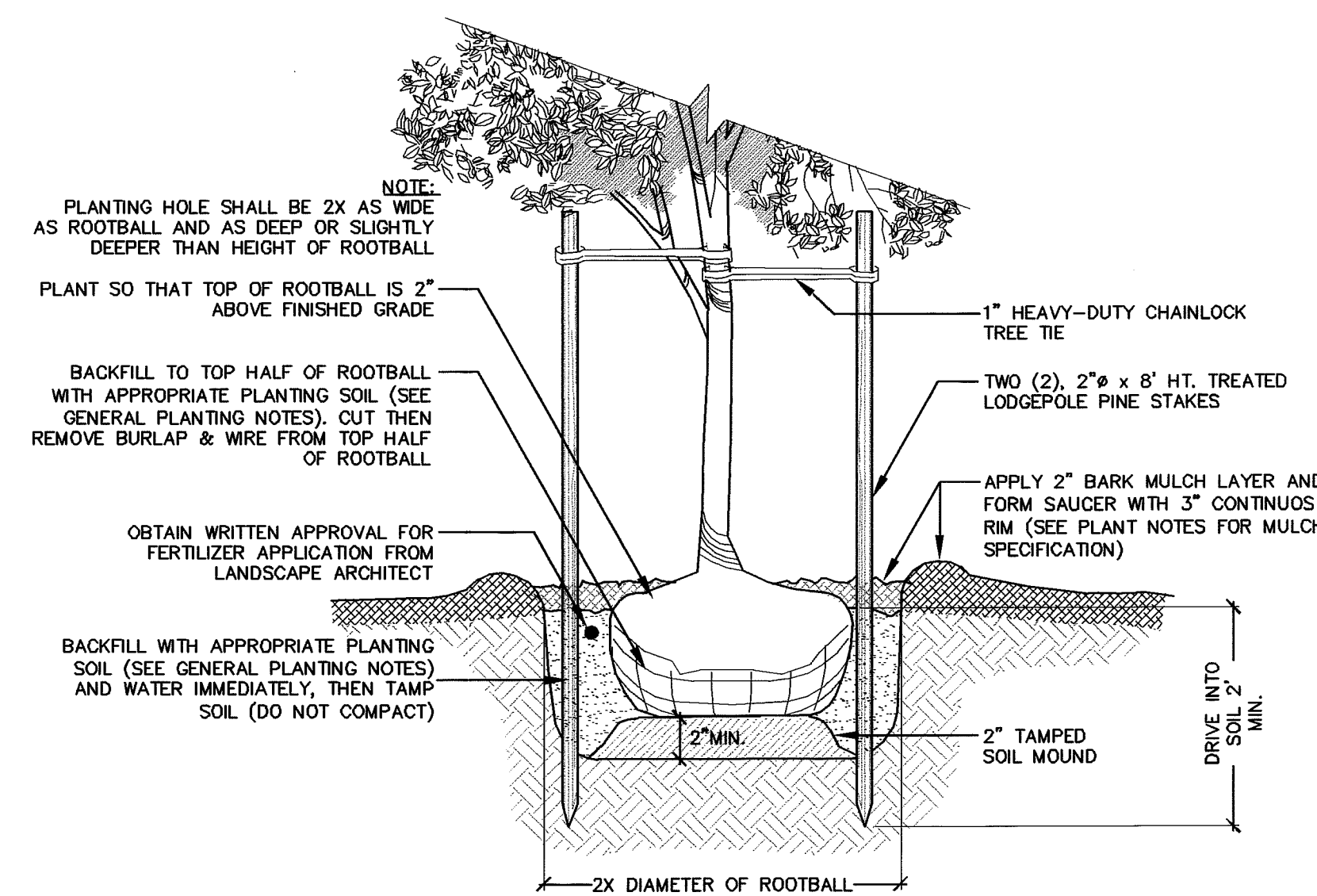




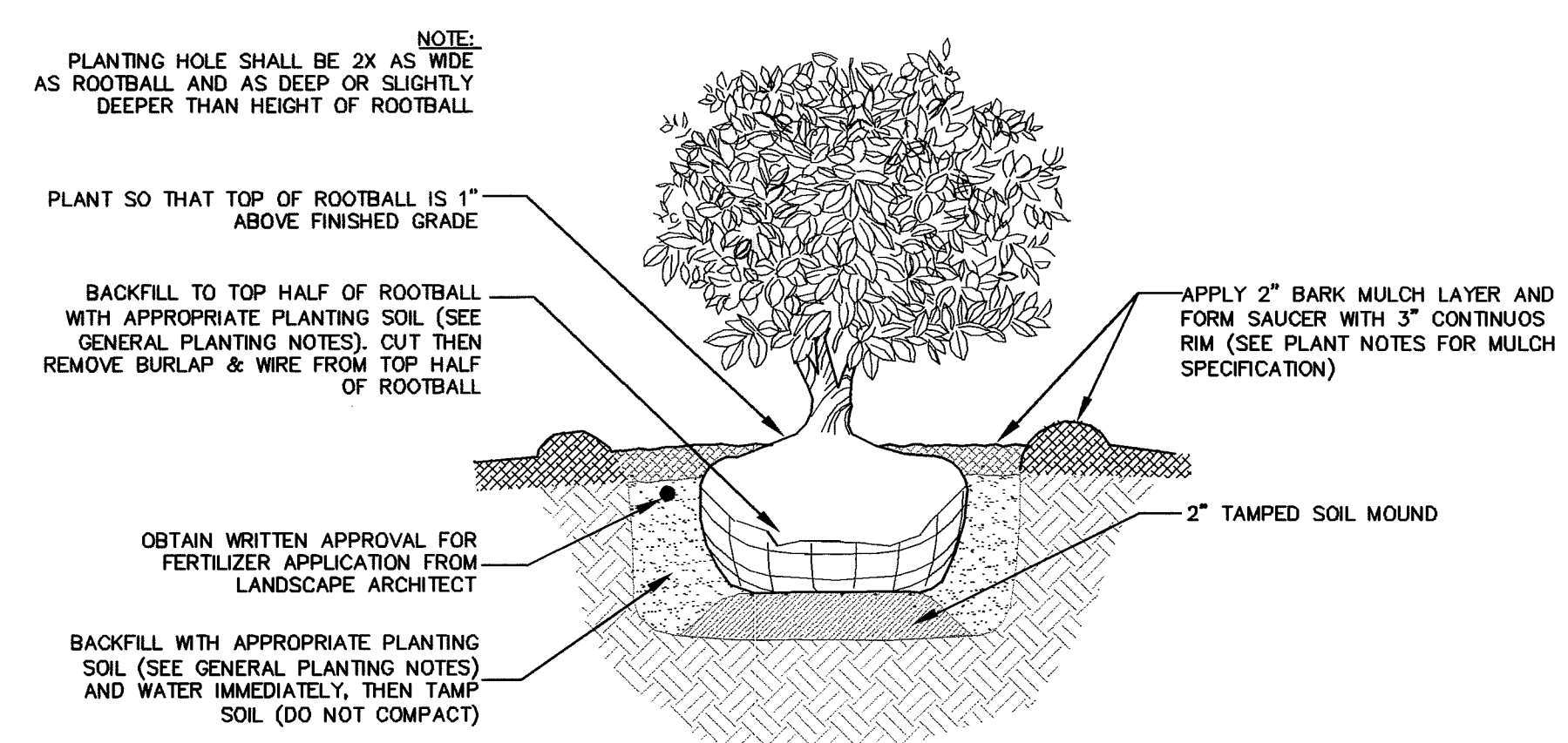




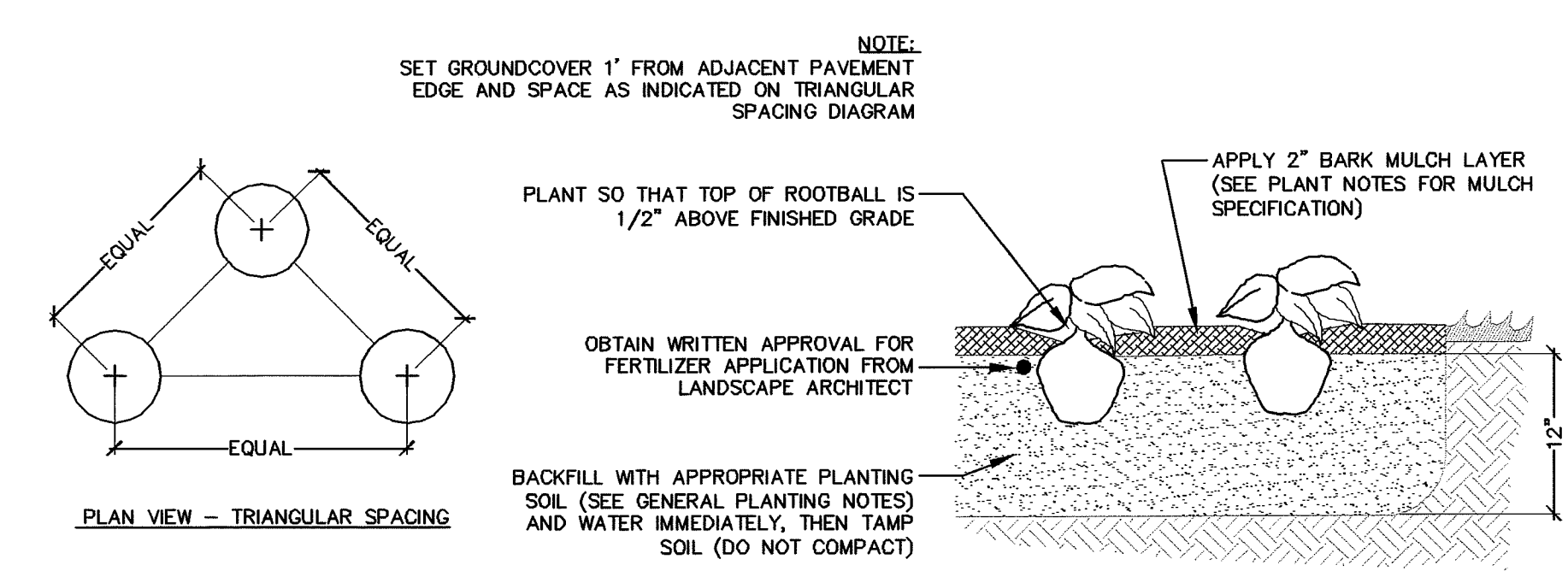
**A** CONIFEROUS TREE  
nts



**B** DECIDUOUS/STREET TREE  
nts



**C** SHRUB  
nts



**D** GROUND COVER  
nts

**General Planting Notes**

1. ALL PLANTS SHALL MEET OR EXCEED THE SPECIFICATIONS OF FEDERAL, STATE AND LOCAL LAWS REQUIRING INSPECTION FOR PLANT DISEASE AND INSECT CONTROL.
2. QUALITY AND SIZE SHALL CONFORM TO OR EXCEED STANDARDS IN THE CURRENT ISSUE OF THE "AMERICAN STANDARD FOR NURSERY STOCK" PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERMEN.
3. THE CONTRACTOR SHALL KEEP FULLY INFORMED AND SHALL COMPLY WITH ALL EXISTING LAWS, CODES, ORDINANCES AND REGULATIONS THAT IN ANY WAY AFFECT THE CONDUCT OF THE WORK. IN PARTICULAR, THE CONTRACTOR SHALL CONFORM THAT THE IRRIGATION SYSTEM WORK MEETS ALL REQUIREMENTS FOR CROSS CONNECTION CONTROL. THE CONTRACTOR SHALL SECURE, AT HIS EXPENSE, ALL NECESSARY PERMITS FOR CONSTRUCTION.
4. NO PLANTING SHALL TAKE PLACE DURING FREEZING WEATHER OR WHEN THE GROUND IS FROZEN OR MUDDY. DO NOT PLANT IN WET CONDITIONS. PROVIDE DRAINAGE FROM EACH PLANTING PIT IF NECESSARY.
5. BARE ROOT MATERIAL SHALL BE PLANTED FROM NOVEMBER 15th THROUGH APRIL 15th. AT NO TIME SHALL BARE ROOT MATERIAL BE PLANTED AFTER LEAVING OUT. BOXED, BALLED OR CONTAINERIZED PLANTS MAY BE PLANTED AT ANY TIME OF THE YEAR THAT THE WEATHER ALLOWS.
6. ALL PLANT MATERIALS SHALL BE NURSERY GROWN IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICES UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE OF THE PROJECT FOR AT LEAST TWO YEARS, UNLESS SPECIFICALLY AUTHORIZED BY THE LANDSCAPE ARCHITECT IN WRITING. UNLESS OTHERWISE NOTED, ALL PLANTS SHALL BE SPECIMEN QUALITY. SUBMIT TO LANDSCAPE ARCHITECT A LIST OF PLANTS AND THEIR SOURCES.
7. CONTAINER STOCK SHALL HAVE GROWN IN CONTAINERS IN WHICH DELIVERED FOR AT LEAST SIX MONTHS BUT NOT MORE THAN TWO YEARS. SAMPLES MUST PROVE NO ROOT-BOUND CONDITIONS EXIST. CONTAINER PLANTS WITH CRACKED OR BROKEN BALLS OF EARTH WHEN TAKEN FROM CONTAINERS MAY BE PLANTED ONLY WITH APPROVAL OF THE LANDSCAPE ARCHITECT.
8. PLANTS SHALL BE SOUND, HEALTHY AND VIGOROUS, WELL BRANCHED AND DENSELY FOLIATED WHEN IN LEAF. THEY SHALL BE FREE OF DISEASE, INSECT PESTS, EGGS, OR LARVAE, AND SHALL HAVE HEALTHY, WELL DEVELOPED ROOT SYSTEMS. THEY SHALL BE FREE FROM PHYSICAL DAMAGE OR ADVERSE CONDITIONS THAT WOULD PREVENT THRIVING GROWTH. TREES WHICH HAVE DAMAGED OR CROOKED LEADERS, OR MULTIPLE LEADERS, UNLESS SPECIFIED, WILL BE REJECTED. TREES WITH ABRASIONS ON THE BARK, SUNSCALDS, DISFIGURING KNOTS, OR FRESH CUTS OF LIMBS OVER 3/4 INCH WHICH HAVE NOT COMPLETELY CALLOSED, WILL BE REJECTED.
9. PLANTS SHALL NOT BE PRUNED PRIOR TO DELIVERY. PRUNE PLANTS ONLY AFTER PLANTING AND ACCORDING TO STANDARD HORTICULTURAL PRACTICE TO PRESERVE THE NATURAL CHARACTER OF THE TREE. REMOVE ALL DEAD WOOD, SUCKERS AND BROKEN OR BADLY BRUISED BRANCHES. USE ONLY CLEAN SHARP TOOLS.
10. PLANTS SHALL BE TRUE TO SPECIES AND VARIETY AND SHALL CONFORM TO SPECIFIED MEASUREMENTS, HOWEVER, LARGER PLANTS MAY BE USED IF APPROVED BY LANDSCAPE ARCHITECT. USE OF SUCH PLANTS SHALL NOT INCREASE CONTRACT PRICE. SPECIFIED HEIGHT AND SPREAD DIMENSIONS REFER TO MAIN BODY OF PLANT AND NOT BRANCH TIP TO TIP. CALIPER MEASUREMENT SHALL BE TAKEN AT A POINT ON THE TRUNK 6 INCHES ABOVE THE NATURAL GROUND LINE FOR TREES UNDER 4 INCHES IN CALIPER, AND AT A POINT 12 INCHES ABOVE THE GROUND FOR TREES 4 INCHES OR GREATER IN CALIPER. IF A RANGE OF SIZES IS GIVEN, NO PLANT SHALL BE LESS THAN THE MINIMUM SIZE AND NO LESS THAN 40% OF THE PLANTS SHALL BE AS LARGE AS THE MAXIMUM SIZE SPECIFIED.
11. SOIL RETENTION - THE DUFF LAYER AND NATIVE TOPSOIL SHOULD BE RETAINED IN AN UNDISTURBED STATE TO THE MAXIMUM EXTENT PRACTICABLE. IN ANY AREAS REQUIRING GRADING REMOVE AND STOCKPILE THE DUFF LAYER AND TOPSOIL ON SITE IN A DESIGNATED, CONTROLLED AREA, NOT ADJACENT TO PUBLIC RESOURCES AND CRITICAL AREAS, TO BE REAPPLIED TO OTHER PORTION OF THE SITE WHERE FEASIBLE.
12. SOIL QUALITY - ALL AREAS SUBJECT TO CLEARING AND GRADING THAT HAVE NOT BEEN COVERED BY IMPERIOUS SURFACE, INCORPORATED INTO A DRAINAGE FACILITY OR ENGINEERED AS STRUCTURAL FILL OR SLOPE SHALL, AT PROJECT COMPLETION, DEMONSTRATE THE FOLLOWING:
  - CONSTRUCTION MATERIAL(S) SHALL NOT BE PRESENT.
  - TOPSOIL LAYER W/MIN. ORGANIC MATTER CONTENT OF 10% DRY WEIGHT & PH FROM 6.0 TO 8.0 OR MATCH THE PH OF ORIGINAL UNDISTURBED SOIL.
  - TOPSOIL LAYER SHALL HAVE MINIMUM DEPTH OF 6" EXCEPT WHERE TREE ROOTS LIMIT THE DEPTH OF INCORPORATION OF AMENDMENTS NEEDED TO MEET THE CRITERIA.
  - SUBSOILS BELOW THE TOP SOIL LAYER SHALL BE SCARIFIED AT LEAST 6" WITH SOME INCORPORATION OF THE UPPER MATERIAL TO AVOID STRATIFIED LAYERS. (THE INTENT IS TO PROVIDE A LOOSE PLANTING MEDIUM WITH TOTAL DEPTH OF LOOSENED 12")
  - COMPOST OR OTHER MATERIAL USED TO MEET ORGANIC MATTER CONTENT SHALL BE "COMPOSTED MATERIALS" IN WAC 173-350-220. THE COMPOST MUST ALSO HAVE ORGANIC MATTER CONTENT 35% TO 65% AND A CARBON TO NITROGEN RATIO BELOW 25:1 OR 35:1 IF INSTALLING PLANTS NATIVE TO THE PUGET SOUND LOWLAND REGION.
  - ALL PLANTING AREAS NEAR PAVED/HARD SURFACES SHALL BE AT 2-1/2" BELOW ADJACENT SURFACES TO ALLOW FOR 2" MULCH.
  - MULCH SHALL CONSIST OF MEDIUM TO COARSE PARTICLE SIZE.
13. NEW (IF IMPORTED) PLANTING SOIL SHALL MEET THE SOIL QUALITY CRITERIA LISTED AND SHALL BE FREE OF WEEDS, SUCH AS OLD HORSETAIL ROOT FRAGMENTS. MATERIAL MUST BE SCREENED AT A MINIMUM OF 7/16" AS AVAILABLE FROM GROW SOURCE.
14. STANDARD COMMERCIAL GRADE FERTILIZERS AND HERBICIDES SHALL NOT BE APPLIED UNLESS THE CONTRACTOR HAS DEEMED IT NECESSARY TO PROMOTE HEALTHY AND SUSTAINABLE GROWTH. THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE LANDSCAPE ARCHITECT BEFORE APPLYING FERTILIZERS AND HERBICIDES.
15. FOR REQUIRED PLANTING AREA CONTRACTOR SHALL DESIGN AND PROPERLY INSTALL A FULLY AUTOMATIC DRIP IRRIGATION SYSTEM IN ACCORDANCE WITH MANUFACTURERS' INSTALLATION INSTRUCTIONS AS SUBMITTED TO LANDSCAPE ARCHITECT. THE SYSTEM SHALL DELIVER UNIFORM DISTRIBUTION OF ADEQUATE WATER TO ESTABLISH ALL PLANTS AND SUSTAIN THEM DURING DRY PERIODS. IN ADDITION TO DISTRIBUTION AND CONVEYANCE COMPONENTS, PROVIDE AND INSTALL PROPER BACK FLOW PREVENTION TO SATISFY CODE REQUIREMENTS, PROVIDE AND INSTALL PROPER FILTRATION TO ENSURE CLOG FREE PERFORMANCE, AND PROVIDE AND INSTALL IRRIGATION CONTROLLER TO MAINTAIN AUTOMATIC OPERATION OF THE SYSTEM. IN LIEU OF IRRIGATION SYSTEM CONTRACTOR SHALL PROVIDE MEANS OF WATERING PLANTS SUFFICIENT TO SUSTAIN AND ESTABLISH PLANTS FOR TWO YEAR PERIOD AFTER FINAL ACCEPTANCE OF PLANT INSTALLATION.
16. ALL DISTURBED AREAS SHALL BE RE-VEGETATED AS LAWN OR AS COMBINATION OF MULCH & PLANTS SPECIFIED IN PLANTING LEGEND.

ENGINEER'S CERTIFICATION:  
"I HEREBY CERTIFY THAT THE IMPROVEMENTS FOR THE SUPERFEET WORLD WIDE BUILDING HAVE BEEN INSPECTED BY FREELAND & ASSOCIATES, 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 ENGINEERING PRACTICE."  
By: 24 1 Date: 2-9-11

APPROVED  
DEC 24 2012  
BY J. m. p. e.  
CITY OF FERNDALE

**AS-BUILT PLAN**

CALL BEFORE YOU DIG  
FOR BURIED UTILITY LOCATIONS  
1-800-424-5555

No.	Date	REVISION
1	3-4-10	REVISED TRUCK DOCK AND LOWERED FFE OF BUILDING AND SITE BY 1'

DESIGNED BY: HAF / JPS
DRAWN BY: JPS
CHECKED BY: HAF

220 West Champion Street, Suite 290 t: 360.650.1408  
Bellingham, WA 98225 f: 360.650.1401

**FREELAND & ASSOCIATES**

CLIENT: **SUPER FEET WORLD WIDE, INC**  
1419 WHITEHORN STREET  
FERNDAL, WA 98248

PROJECT LOCATION: FERNDAL INDUSTRIAL PARK  
1820 SCOUT PLACE  
FERNDAL, WA 98248

SHEET CONTENTS:  
**LANDSCAPE DETAILS & NOTES**

DWG #:	09097ASB3.DWG	DATE:	
JOB #:	09097		01-26-11
SCALE:		SHEET:	L2
H: 1" = 30'	V: 1" = 4'		