



PACIFIC SURVEY & ENGINEERING INC  
1812 CORNWALL, BELLINGHAM, WA 98225 PHONE: 671.7387 FAX: 671.4685  
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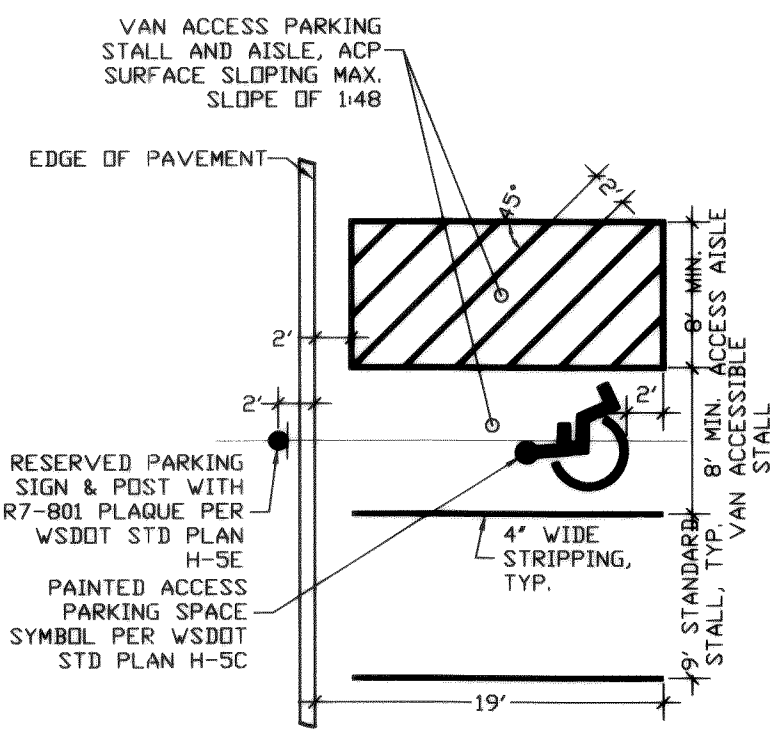
# EXPRESS ELECTRIC

SITUATE IN A PORTION OF THE NE 1/4 OF SECTION 33, TOWNSHIP 39 NORTH,  
RANGE 2 EAST, W.M., CITY OF FERNDALE, WHATCOM COUNTY, WASHINGTON

## SITE PLAN

### SHEET INDEX

- COVER SHEET
- EXISTING CONDITIONS
- GRADING PLAN
- DRAINAGE PLAN
- WATER & SANITARY SEWER PLAN
- LANDSCAPING PLAN
- TEMPORARY EROSION & SEDIMENTATION CONTROL PLAN
- EROSION & SEDIMENT CONTROL NOTES & DETAILS
- ROAD & SIDEWALK DETAILS
- WATER SYSTEM DETAILS
- STORM DRAINAGE & SANITARY SEWER DETAILS
- GENERAL CONSTRUCTION NOTES



TYPICAL STANDARD AND VAN ACCESSIBLE PARKING STALL DETAIL  
NOT TO SCALE

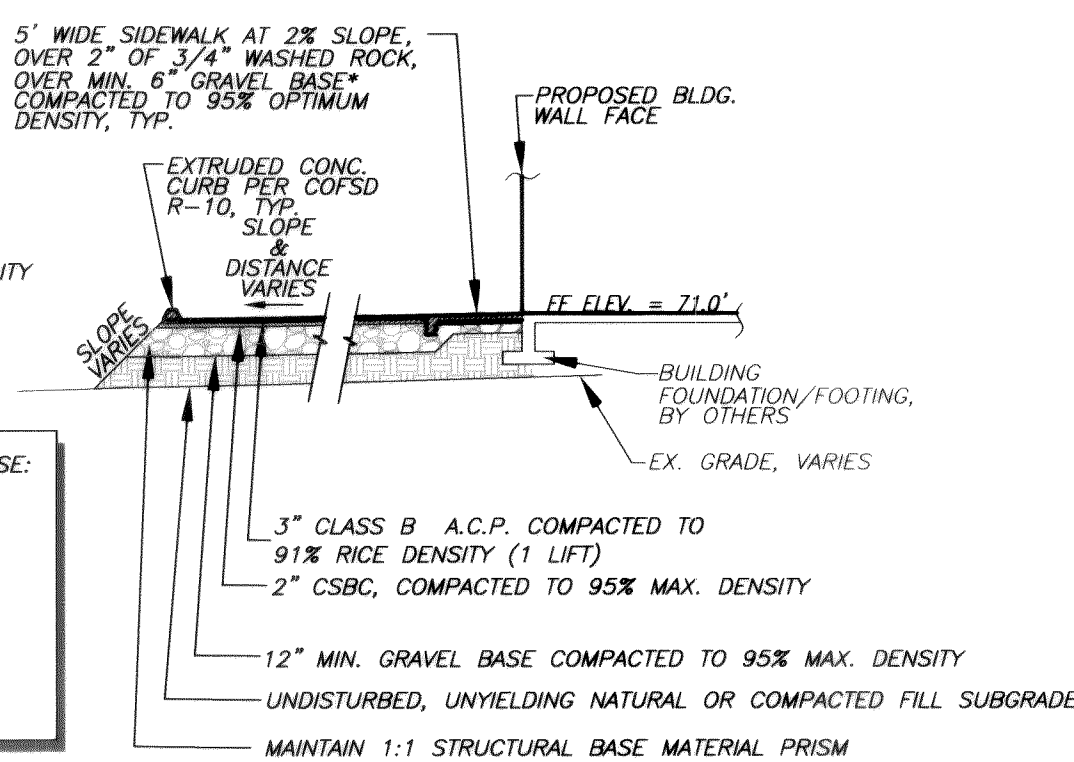
#### NOTES:

1. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE PROVISIONS OF APWA "STANDARD SPECIFICATIONS" AND SHALL CONFORM TO THE REQUIREMENTS OF THE CITY DEVELOPMENT STANDARDS.

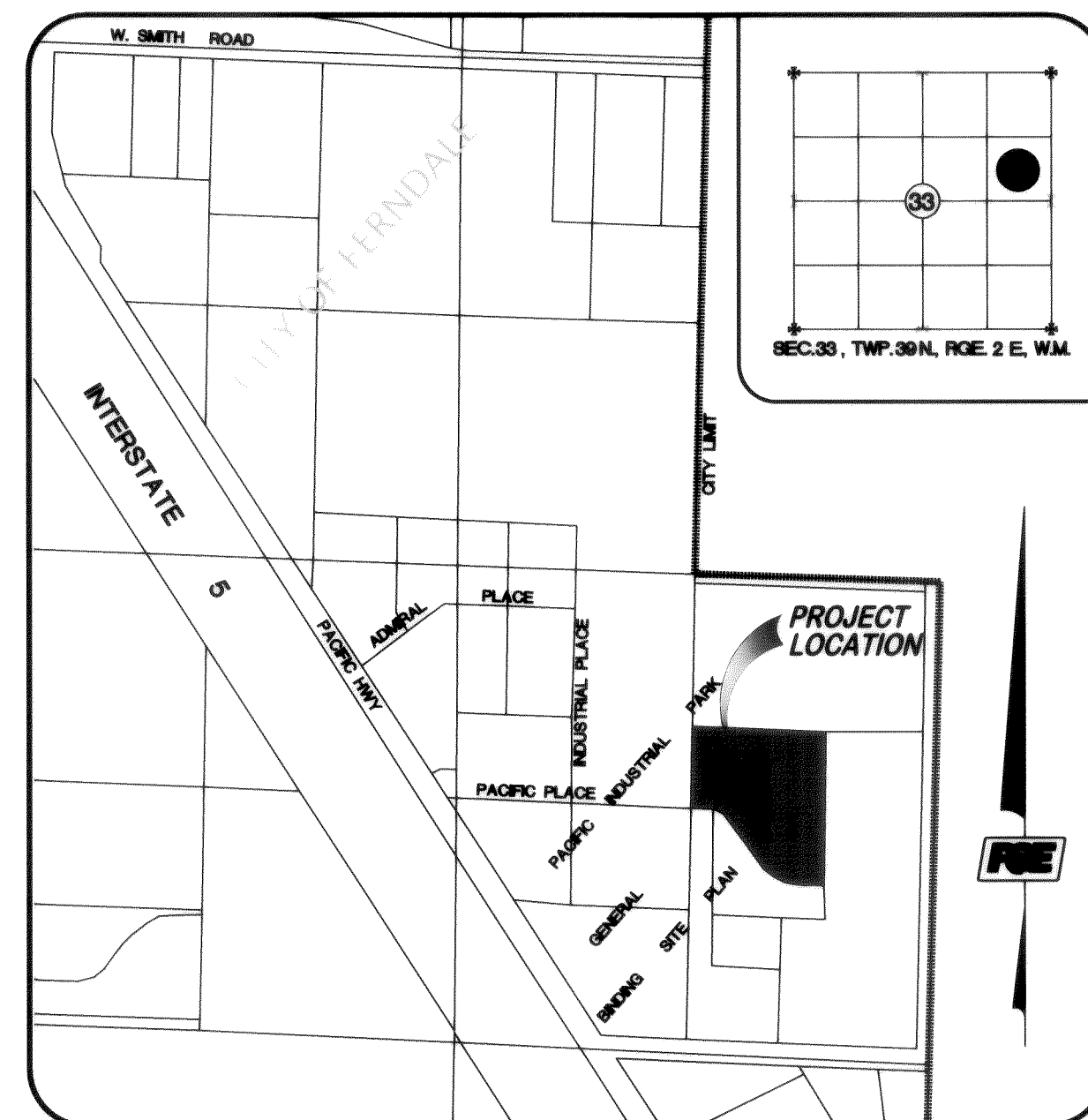
2. ALL DEPTHS REPRESENT COMPACTED THICKNESS.

SIEVE SIZE	PERCENT PASSING
4" SQUARE	100
1-1/2" SQUARE	70-100
1/2" SQUARE	35-80
U.S. NO. 4	15-50
U.S. NO. 40	20 MAX.
U.S. NO. 200	5 MAX.

SAND EQUIVALENT SHALL BE 40% MIN.



TYPICAL PARKING LOT SECTION  
NOT TO SCALE



VICINITY MAP  
NOT TO SCALE

### EXISTING FEATURE SYMBOL LEGEND

- EXISTING MONUMENT
- EXISTING REBAR AND CAP PLS#...
- EXISTING TRAVERSE PT./ WORK PT.
- EXISTING STORM DRAIN MANHOLE
- EXISTING STORM DRAIN CATCH BASIN MANHOLE
- EXISTING STORM DRAIN SERVICE
- EXISTING CATCH BASIN
- EXISTING SANITARY SEWER MANHOLE
- EXISTING SANITARY SEWER CLEANOUT
- EXISTING SANITARY SEWER SERVICE
- EXISTING GATE VALVE
- EXISTING WATER METER
- EXISTING FIRE HYDRANT
- EXISTING REDUCER
- EXISTING WATER MANHOLE
- EXISTING STOP SIGN
- EXISTING ELECTRICAL VAULT/MANHOLE
- EXISTING ELECTRICAL PEDESTAL/RISER
- EXISTING UTILITY VAULT
- EXISTING LANDSCAPE TREE/UNKNOWN SPECIES TREE
- EXISTING PINE/SPRUCE TREE

### EXISTING LINE LEGEND

- EXISTING ROADWAY CENTERLINE
- EXISTING RIGHT OF WAY LINE
- EXISTING EDGE OF ASPHALT
- EXISTING EDGE OF CONCRETE
- EXISTING CONCRETE PAD
- EXISTING EDGE OF GRAVEL ROAD
- EXISTING EDGE OF DIRT ROAD
- EXISTING CURB
- EXISTING SIDEWALK
- EXISTING STORM CULVERT
- EXISTING STORM DRAIN LINE
- EXISTING SANITARY SEWER LINE
- EXISTING WATER LINE
- EXISTING UNDERGROUND GAS LINE
- EXISTING TOP OF SLOPE LINE
- EXISTING TOE OF SLOPE LINE
- EXISTING FLOW LINE
- EXISTING CHAINLINK FENCE
- EXISTING BARBED WIRE FENCE
- EXISTING WOOD FENCE
- EXISTING ROCK FENCE

### PROPOSED FEATURE SYMBOL LEGEND

- PROPOSED STORM DRAIN MANHOLE
- PROPOSED STORM DRAIN CATCH BASIN MANHOLE
- PROPOSED STORM DRAIN SERVICE
- PROPOSED CATCH BASIN
- PROPOSED SANITARY SEWER MANHOLE
- PROPOSED SANITARY SEWER CLEANOUT
- PROPOSED SANITARY SEWER SERVICE
- PROPOSED GATE VALVE
- PROPOSED WATER METER
- PROPOSED FIRE HYDRANT
- PROPOSED REDUCER
- PROPOSED FIRE STANDPIPE

### PROPOSED LINE LEGEND

- PROPOSED EDGE OF ASPHALT
- PROPOSED EDGE OF CONCRETE
- PROPOSED CONCRETE PAD
- PROPOSED CURB
- PROPOSED SIDEWALK
- PROPOSED STRIPE
- PROPOSED STORM DRAIN LINE
- PROPOSED DITCH LINE
- PROPOSED SANITARY SEWER LINE
- PROPOSED WATER LINE
- PROPOSED TOP OF SLOPE LINE
- PROPOSED TOE OF SLOPE LINE
- PROPOSED CHAIN LINK FENCE
- PROPOSED BARBED WIRE FENCE
- PROPOSED ROCK FENCE
- PROPOSED WOOD FENCE

APPROVED

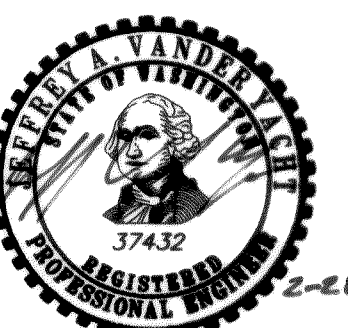
APR 18 2007

BY *Robert A. Vander Yacht*

CITY OF FERNDALE

AS BUILT CERTIFICATION  
I hereby certify that the improvements in Pacific Industrial Park Specific Binding Site Plan No. 7, Lot 17 have been inspected by Pacific Survey and Engineering, Inc., and constructed in conformance with the plans approved by the Public Works Director for said development and the general specifications adopted by the City of Ferndale Department of Public Works.

JEFFREY A. VANDER YACHT, P.E.



### TOPO NOTES:

- DATA FOR THIS SURVEY WAS GATHERED BY FIELD TRAVERSE UTILIZING ELECTRONIC DATA COLLECTION.
- EQUIPMENT USED: THEOMAT 00'01.5"
- HORIZONTAL DATUM: ASSUMED/LOCAL  
BASIS OF BEARINGS: MONUMENTED N. LINE OF LOTS 15 & 16 PER PACIFIC INDUSTRIAL PARK SPECIFIC BINDING SITE PLAN, No. 6, A.F. #2000601557, BEARING: N88°19'48"W.
- VERTICAL DATUM: CITY OF FERNDALE  
BENCH MARK: N. RM OF SSMH AT INTERSECTION OF ADMIRAL PLACE AND INDUSTRIAL PLACE PER DEFA TOPOGRAPHIC BASE, ELEV. = 72.15'  
TBM ON SITE: SET PK NAIL, N EDGE OF ASPHALT, W OF SITE. ELEV. = 68.77'
- CONTOUR INTERVALS ARE 1 FOOT AND ARE COMPUTER GENERATED FROM GROUND FIELD TOPOGRAPHY GATHERED FOR THIS SURVEY UTILIZING ELECTRONIC DATA COLLECTION.
- PACIFIC SURVEYING AND ENGINEERING INC., ASSUMES NO LIABILITY FOR ANY SUBSURFACE CONDITIONS OR FEATURES THAT MAY EXIST THAT ARE UNDETECTABLE AND/OR NOT VISIBLE.
- THIS TOPOGRAPHY MAP WAS DONE WITHOUT BENEFIT OF A TITLE REPORT AND PACIFIC SURVEYING AND ENGINEERING SERVICES, INC. IS NOT RESPONSIBLE FOR ANY EASEMENTS, COVENANTS, AND RESTRICTIONS NOT SHOWN HEREON.
- WATERLINES SHOWN HEREON ARE AS INDICATED ON AS-BUILT DRAWINGS PROVIDED BY THE CITY OF FERNDALE AND HAVE NOT BEEN FIELD VERIFIED.

### ABBREVIATIONS

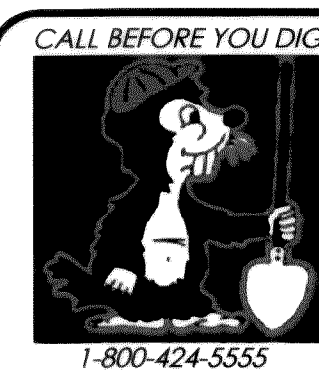
- B/C BACK OF CURB
- B/W BOTTOM OF WALL
- BOR BEGIN CURB RETURN
- BOW BACK OF SIDEWALK
- BVC BEGIN VERTICAL CURVE
- C&G CURB AND GUTTER
- CL CENTERLINE
- CMP CORRUGATED METAL PIPE
- COFSD CITY OF FERNDALE STANDARD DRAWING
- CPP CORRUGATED POLYETHYLENE PIPE
- D CURVE DELTA
- EDR END CURB RETURN
- EG EXISTING GRADE
- EP EDGE OF PAVEMENT
- EVC END VERTICAL CURVE
- EXST EXISTING
- F&G FRAME AND GRATE
- F.HYD. FIRE HYDRANT
- F/C FACE OF CURB
- FF FINISH FLOOR
- FG FINISH GRADE
- FL FLOWLINE
- FS FINISH SURFACE
- IE INVERT ELEVATION
- INV. INVERT
- L CURVE LENGTH
- LT LEFT
- PC POINT OF CURVATURE-BEGIN CURVE
- PCC POINT OF COMPOUND CURVATURE
- PRC POINT OF REVERSE CURVATURE
- PT POINT OF TANGENCY = END CURVE
- PVI POINT OF VERTICAL INTERSECTION
- R CURVE RADIUS
- R/W RIGHT OF WAY
- RT RIGHT
- SD STORM DRAIN
- SDCB STORM DRAIN CATCH BASIN
- SDMH STORM DRAIN MANHOLE
- SERV SERVICE
- SSCO SANITARY SEWER CLEAN-OUT
- SSMH SANITARY SEWER MANHOLE
- SVC SERVICE
- SWD SIDEWALK DRAIN PER COFSD ST-15
- SWK SIDEWALK
- T/W TOP OF WALL
- TBC TOP BACK OF CURB
- TFC TOP FACE OF CURB
- TC TOP OF CURB
- TF TOP OF FOOTING
- T/P TOP OF PIPE
- TYP. TYPICAL
- WL WATER LINE

#### AS-BUILT NOTE:

ONLY INFORMATION NOTED AS "AB" HAS BEEN FIELD SURVEYED OR MEASURED DURING CONSTRUCTION.

## AS-BUILT DRAWING

FIELD BOOKS	TBM. NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	SCALE	REV	DATE	DESCRIPTION	BY	No.	DESCRIPTION	DATE
DESIGN:				BASE	DPG	JVY	HORIZ.					2	CITY OF FERNDALE	9.23.05
STAKING:				DESIGN	MDG	JVY	VERT.					3	CITY OF FERNDALE	10.06.05
ASBUILT:				XREF:								4	AS-BUILT	1.12.07
				DWG # C.N.D								5	AS-BUILT	2.28.07
SURVEY REFERENCE		VERTICAL DATUM		PLAN CHECK		REVISIONS		ISSUE						



EXPRESS ELECTRIC  
3969 HAMMER DRIVE  
BELLINGHAM, WA 98226

PACIFIC INDUSTRIAL PARK  
SPECIFIC BINDING SITE PLAN No. 7, LOT 17  
1354 PACIFIC PLACE

## COVER SHEET

JOB #: 2005112

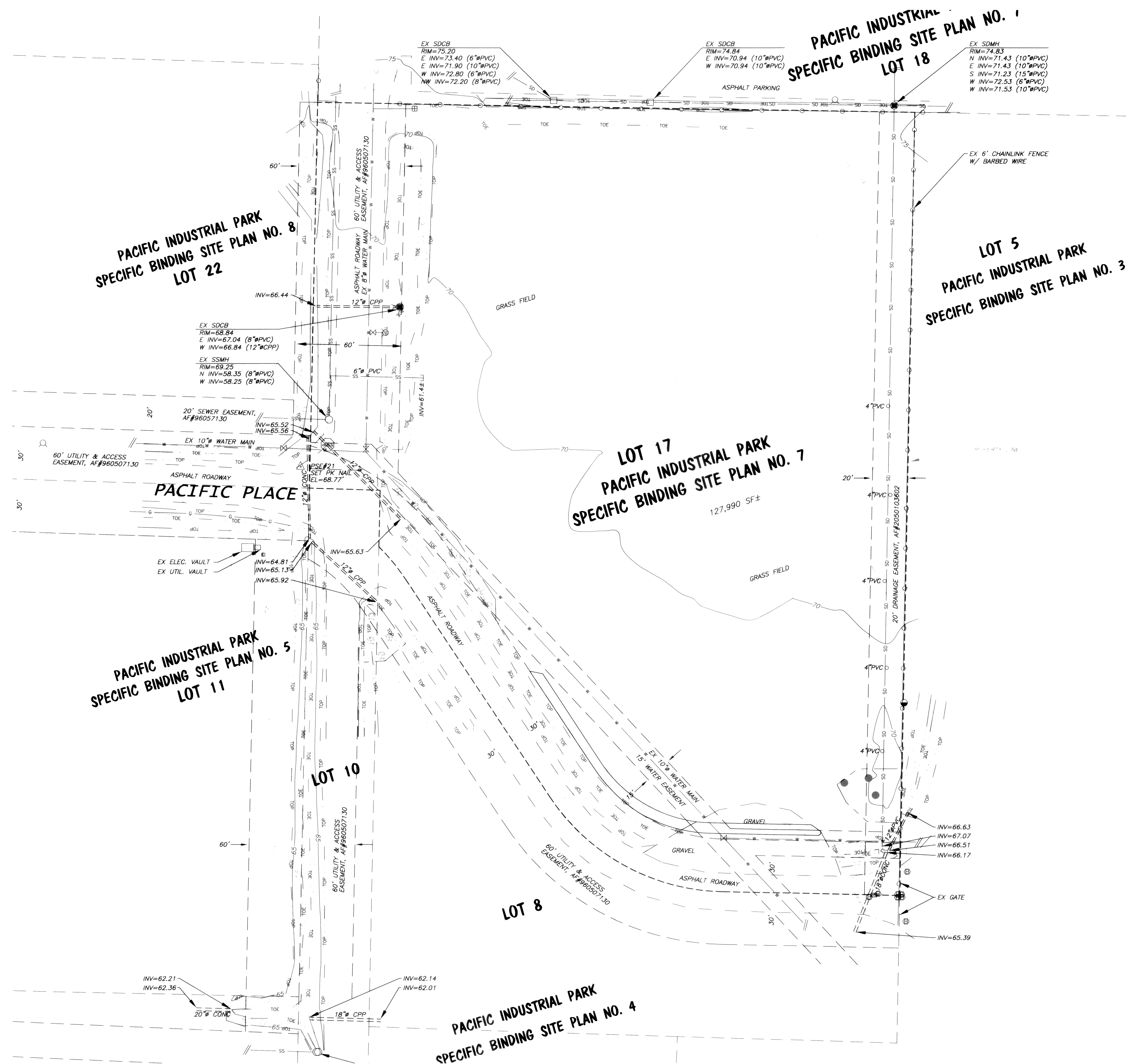
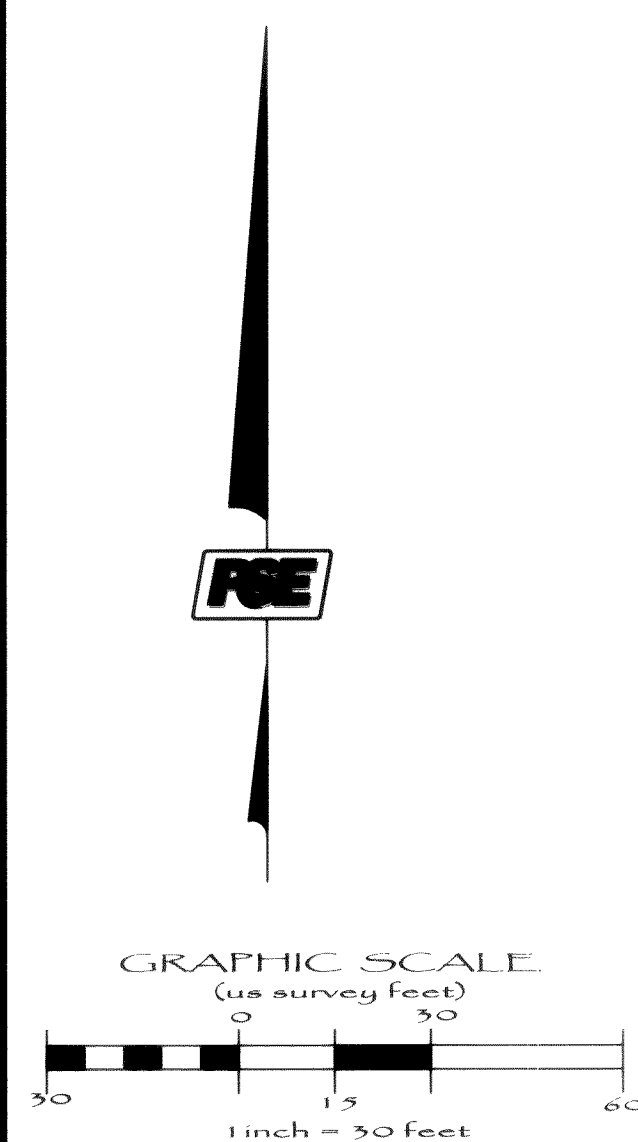
SHEET 1 OF 12

EXPIRES: 10/10/09





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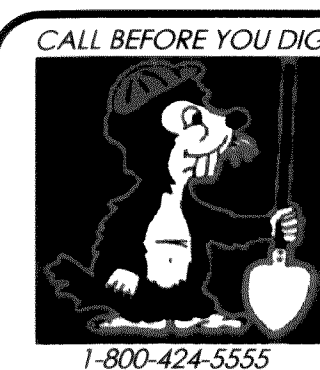


**AS-BUILT NOTE:**  
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"(AB)" HAS BEEN FIELD SURVEYED  
OR MEASURED DURING CONSTRUCTION.

# AS-BUILT DRAWING

APPROVED  
APR 16 2007  
RC  
CITY OF FERNDALE

FIELD BOOKS	TBM. NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	SCALE	REV	DATE	DESCRIPTION	BY	No.	DATE
DESIGN:				BASE			HORIZ: 1" = 30'					2	CITY OF FERNDALE 9.23.03
STAKING:				DESIGN	MDB	JYY	VERT: N/A					3	CITY OF FERNDALE 10.06.03
ASBUILT:		SEE "TOPO NOTES"		XREF: expresselectric_topo_30x								4	AS-BUILT 1.12.07
				DWG # ENG_BASE_30x								5	AS-BUILT 2.28.07
SURVEY REFERENCE		VERTICAL DATUM		PLAN CHECK						REVISIONS			ISSUE



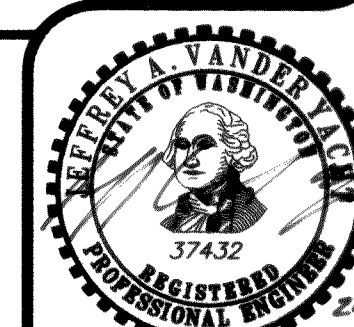
**EXPRESS ELECTRIC**  
3969 HAMMER DRIVE  
BELLINGHAM, WA 98226

**PACIFIC INDUSTRIAL PARK**  
SPECIFIC BINDING SITE PLAN No. 7, LOT 17  
1354 PACIFIC PLACE

## EXISTING CONDITIONS

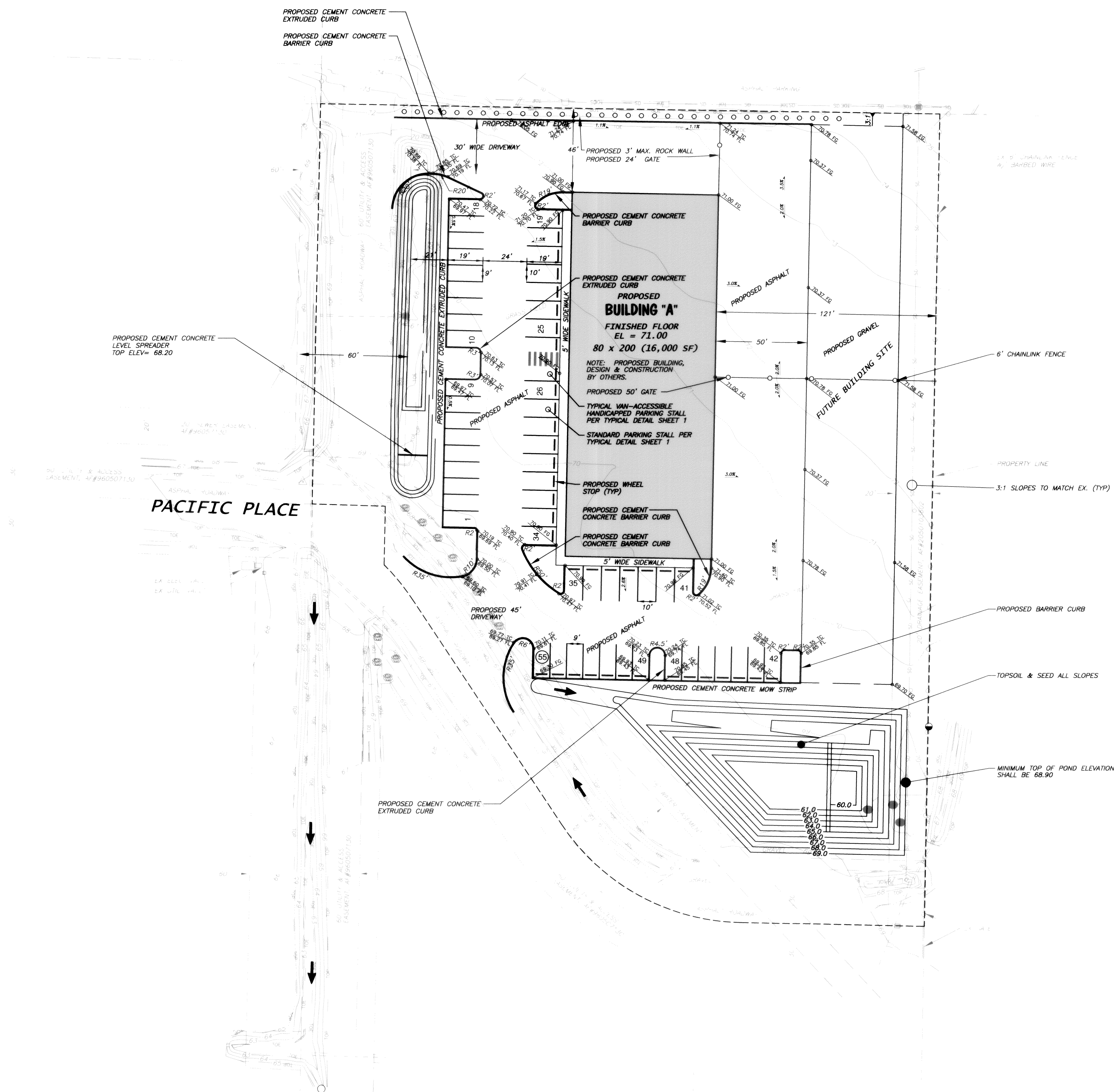
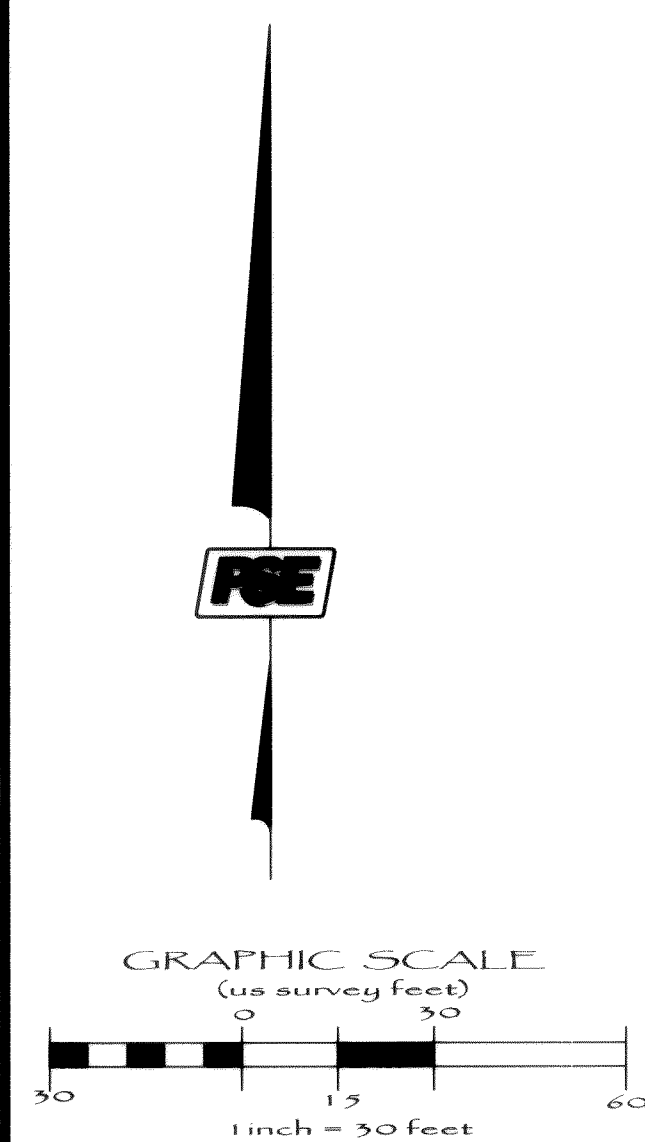
JOB #: 2005112

SHEET 2 OF 12



EXPIRES: 10/10/07

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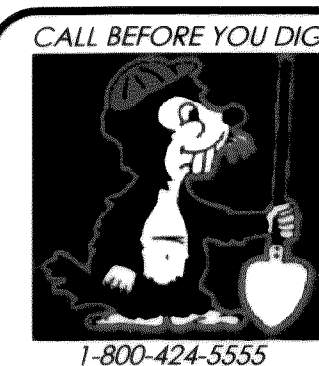


APPROVED  
APR 16 2007  
BY RC  
CITY OF FERNDALE

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# AS-BUILT DRAWING

FIELD BOOKS	TBM. NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	SCALE	REV	DATE	DESCRIPTION	BY	No.	DATE
DESIGN:				BASE			HORIZ. 1" = 30'					2	CITY OF FERNDALE 9.23.05
STAKING:				DESIGN	MDB	JVY	VERT: N/A					3	CITY OF FERNDALE 10.06.05
ASBUILT:		SEE "TOPO NOTES"		XREF: expresselectric_topo_30x								4	AS-BUILT 1.12.07
				DWG # ENG_BASE_30x								5	AS-BUILT 2.28.07
SURVEY REFERENCE		VERTICAL DATUM		PLAN CHECK						REVISIONS			ISSUE



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3969 HAMMER DRIVE  
BELLINGHAM, WA 98226

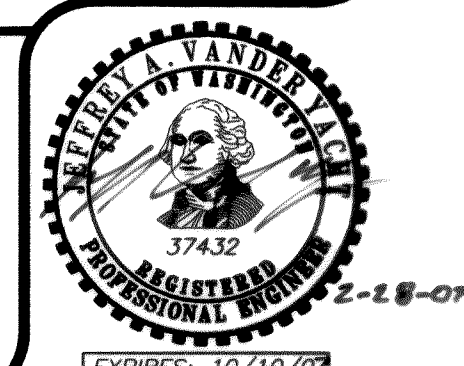
# PACIFIC INDUSTRIAL PARK

SPECIFIC BINDING SITE PLAN No. 7, LOT 17  
1354 PACIFIC PLACE

## GRADING PLAN

JOB #: 2005112

SHEET 3 OF 12

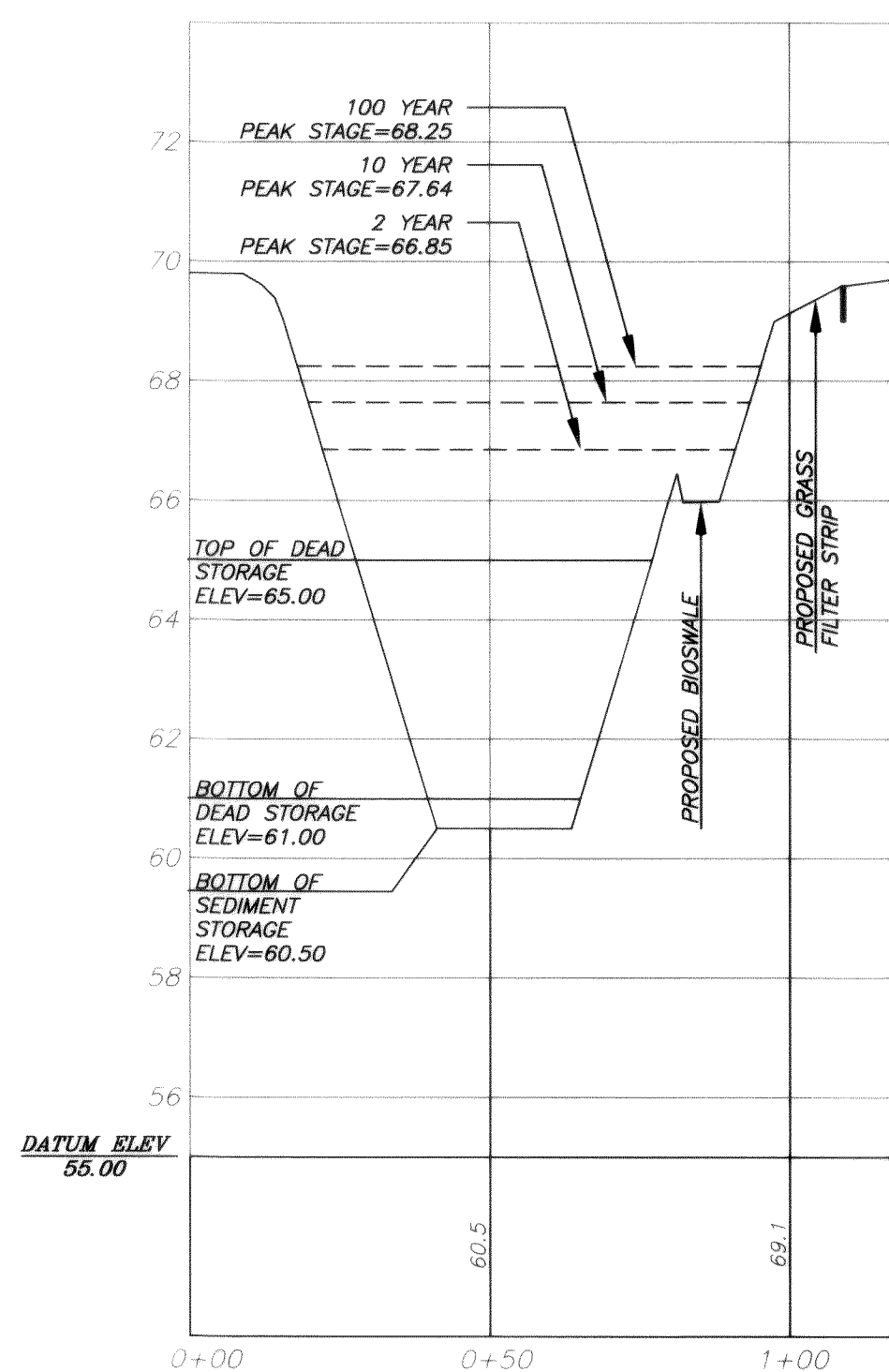
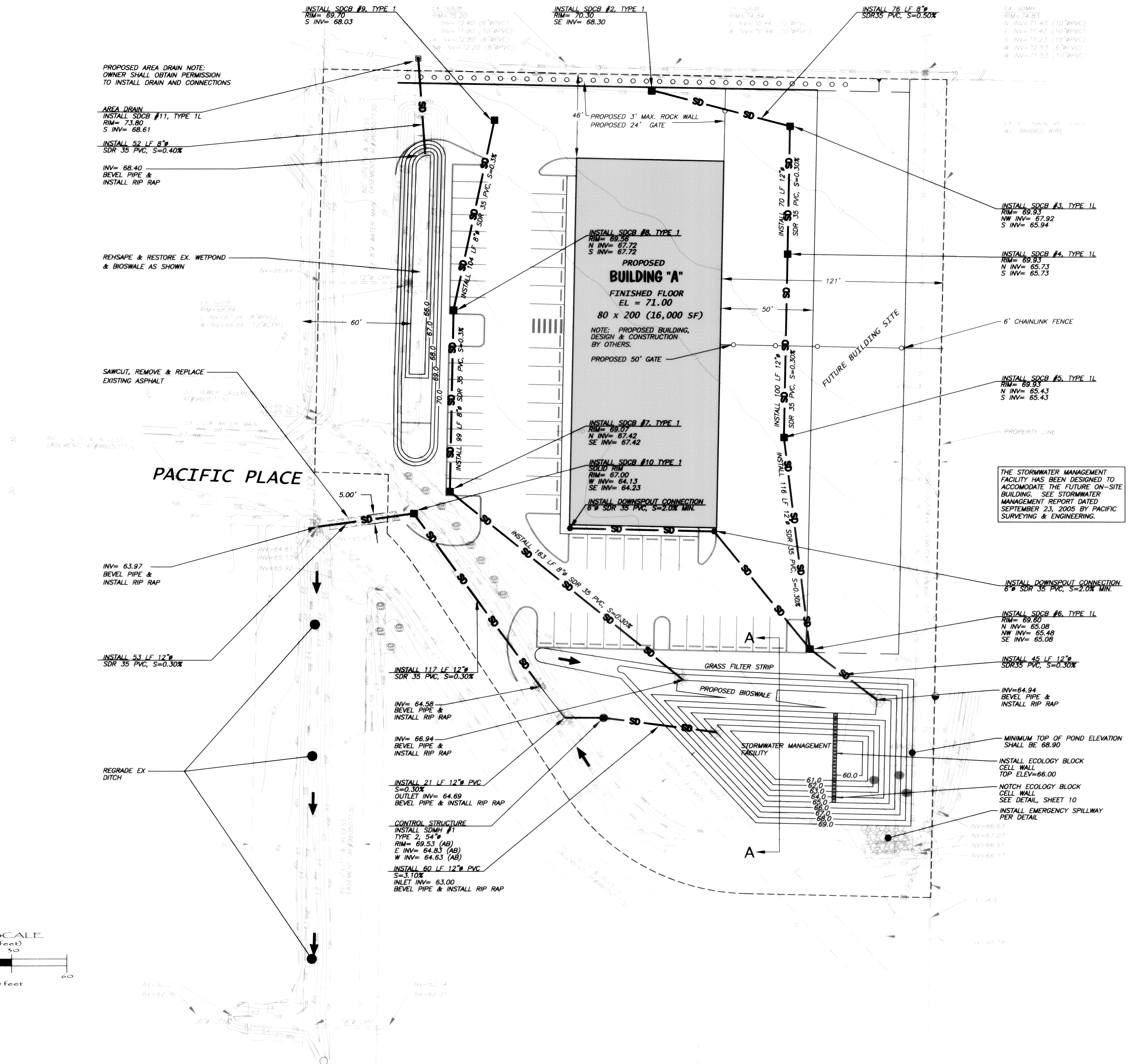


00354.003 1.24.08 pk





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SECTION A-A

SCALE:  
HORZ: 1"=30'  
VERT: 1"=3'

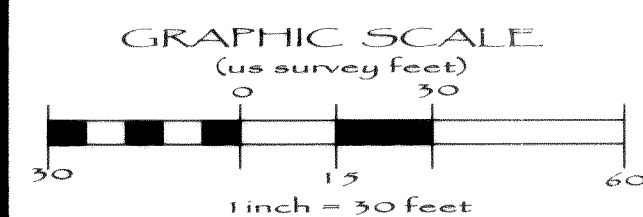
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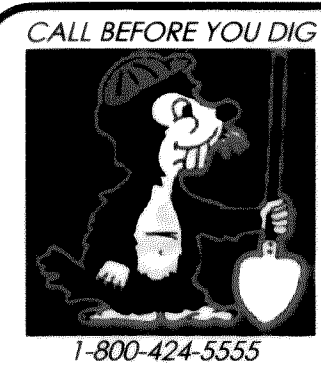
BY RC  
CITY OF FERNDALE

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AS-BUILT  
DRAWING



FIELD BOOKS	TBM. NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	SCALE	REV	DATE	DESCRIPTION	BY	No.	DATE
DESIGN:				BASE			HORIZ: 1" = 30'					2	CITY OF FERNDALE 9.23.05
STAKING:				DESIGN	MOB	JVY	VERT: N/A					3	CITY OF FERNDALE 10.06.05
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SURVEY REFERENCE	VERTICAL DATUM	PLAN CHECK	REVISIONS	ISSUE									



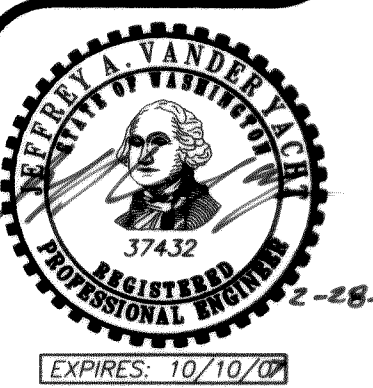
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PACIFIC INDUSTRIAL PARK  
SPECIFIC BINDING SITE PLAN No. 7, LOT 17  
1354 PACIFIC PLACE

DRAINAGE PLAN

JOB #: 2005112

SHEET 4 OF 12

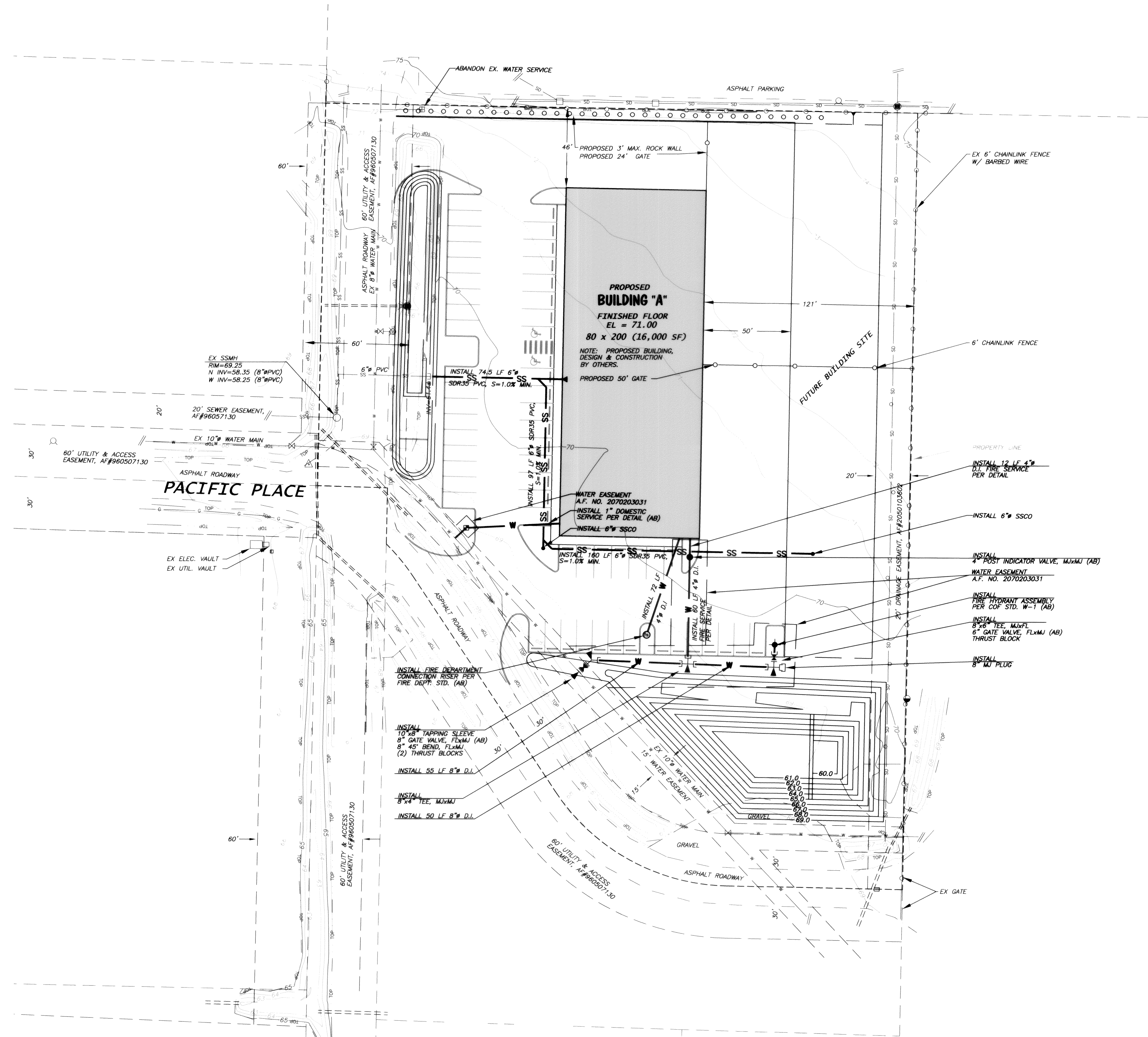
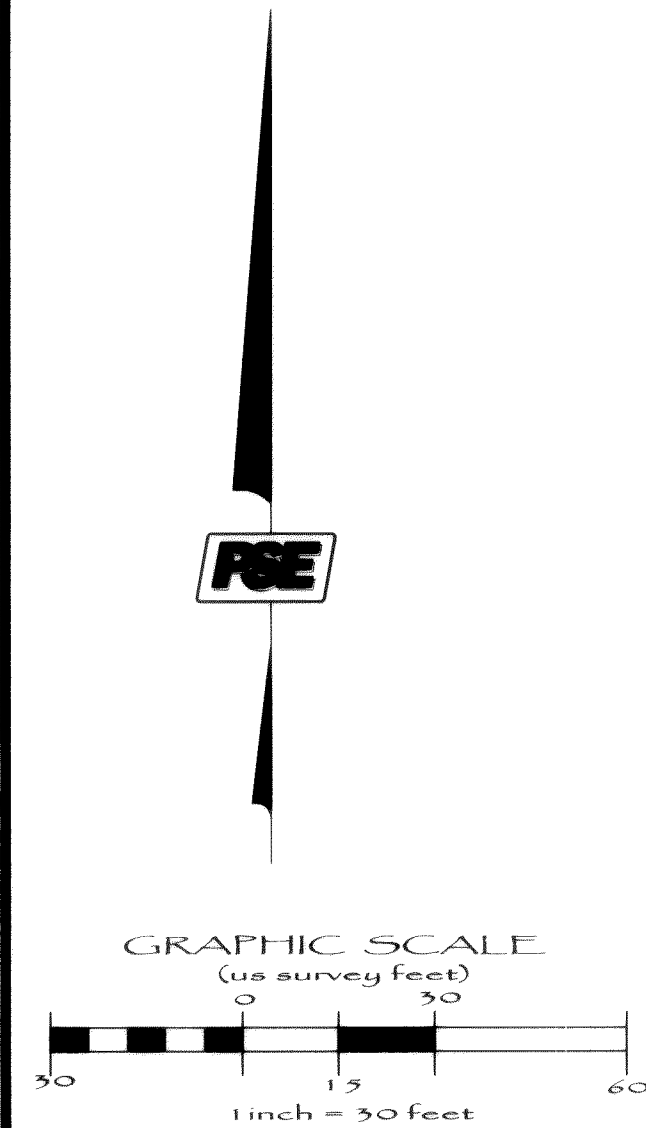


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APR 16 2007  
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CITY OF FERDALE

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**AS-BUILT  
DRAWING**

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DESIGN:				BASE			HORIZ: 1" = 30'					2	CITY OF FERDALE 9.23.05
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				DWG # <u>ENG_BASE_30x</u>								5	AS-BUILT 2.28.07
SURVEY REFERENCE		VERTICAL DATUM		PLAN CHECK				REVISIONS				ISSUE	



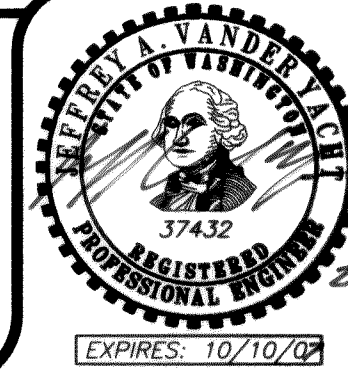
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**PACIFIC INDUSTRIAL PARK**  
SPECIFIC BINDING SITE PLAN No. 7, LOT 17  
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**WATER & SANITARY SEWER  
SYSTEM PLAN**

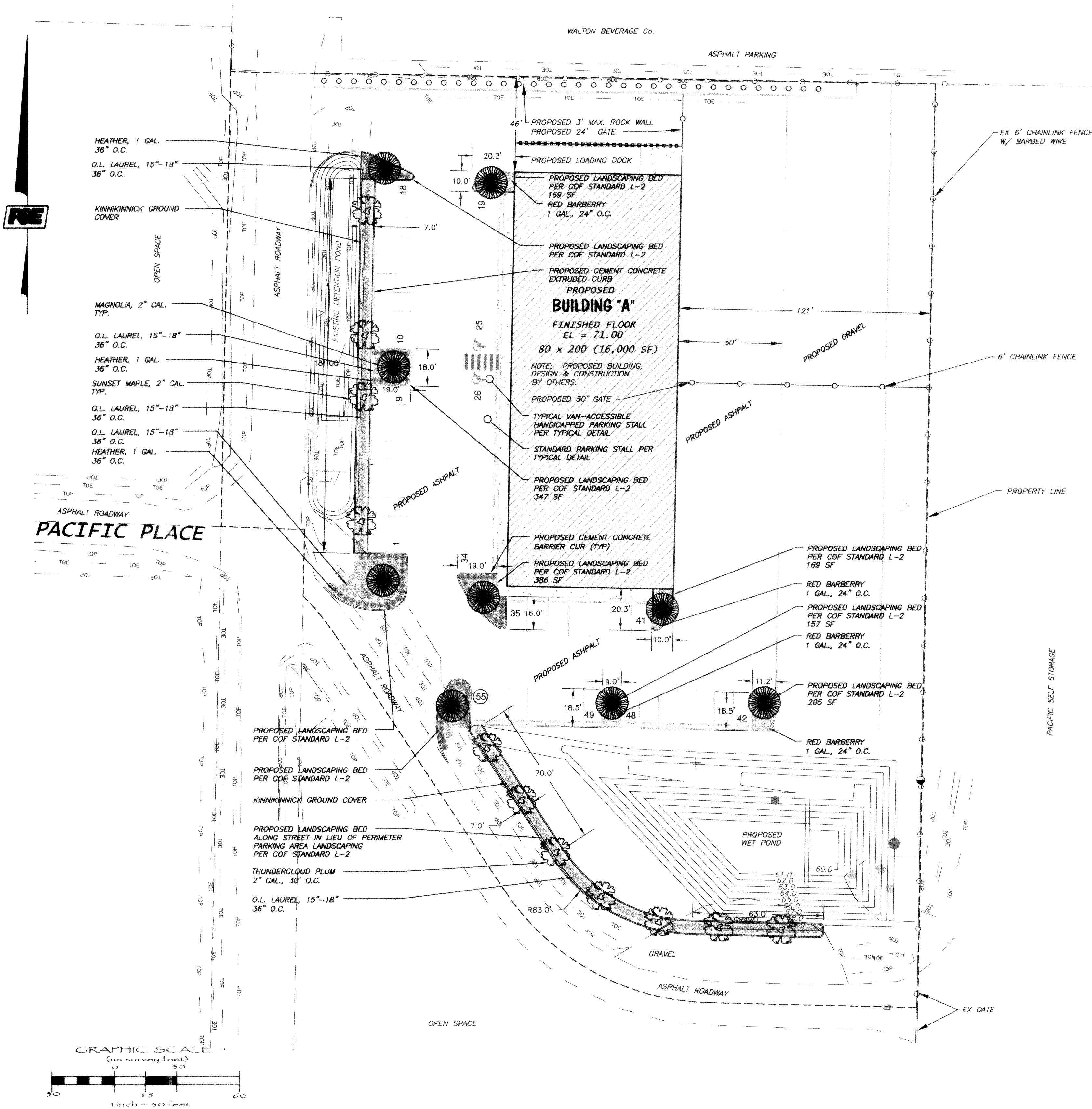
JOB #: 2005112

SHEET 5 OF 12



00356.00S 1-24-08 VK





**LEGEND**

- PROPOSED LANDSCAPING BED
- SUNSET MAPLE
- ROSY GLOW BARBERRY
- OTTO LUYKEN LAUREL
- SPRINGWOOD WHITE HEATHER
- SAUCER MAGNOLIA

TOTAL PROPOSED PAVED AREA= 43,040± SF  
TOTAL PROPOSED LANDSCAPE AREA= 5,650± SF  
TOTAL PROPOSED PARKING SPACES= 55  
TOTAL PROPOSED CANOPY TREES= 20  
PARKING AREA (SF)/TREE= 2,152:1  
LANDSCAPE AREA (SF)/PARKING SPACE= 102:1

- PROPOSED LANDSCAPING PLANT MATERIAL**
- ACER RUBRUM  
-SUNSET MAPLE  
-2" CAL.
  - PRUNUS LAUROCERASUS "OTTO LUYKEN"  
-OTTO LUYKEN LAUREL  
-15"-18" (36" O.C.)
  - BERBERIS THUNBERGII ATROPURPUREA  
-ROSY GLOW BARBERRY  
-1 GAL. (36" O.C.)
  - ERICA CARNEA  
-SPRINGWOOD WHITE HEATHER  
-1 GAL. (36" O.C.)
  - ARCTOSTAPHYLOS UVA-URSI  
-KINNICKINICK  
-4" POT (24" O.C.)
  - MAGNOLIA  
-STREET TREE, BRANCHING  
-2" CAL.

**Low Screen Landscape (L-2)**

**GENERIC PLAN: Version A - Formal Arrangement**

Canopy Tree

Low Screen Shrubs

Living Plant Material

Property Line

Width Varies

Edge of Area

30 Linear Feet

**GENERIC PLAN: Version B - Informal Arrangement**

Property Line

Width Varies

Edge of Area

30 Linear Feet

**GENERIC PLAN: Version C - Optional Masonry Wall**

Wall location may vary relative to property line. See code requirements.

Optional 30" - 42" high Masonry Wall

Property Line

Width Varies

Edge of Area

30 Linear Feet

**Required Plant Materials**

- Low Screen Shrubs (3 gallon minimum) to form continuous screen at least 24 inches tall in 3 years; maximum 42 inches in height.
- 1 canopy tree per 30 linear feet as measured along the property line.
- Living plant material covering a minimum of 70 percent of the required landscaped area within 3 years.

**Plan Label Requirements for all required trees, shrubs and living plant material:**

- Scientific Name and Common Name
- Quantity, Size, and Spacing

0' 5' 10' 15'

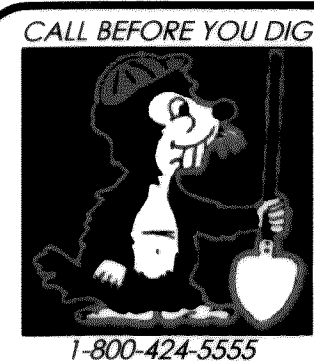
Exhibit 18.74.EX.1

APPROVED  
APR 16 2007  
BY RC  
CITY OF FERDALE

AS-BUILT NOTE  
ONLY INFORMATION NOTED AS "AS-BUILT" HAS BEEN FIELD SURVEYED OR MEASURED DURING CONSTRUCTION.

**AS-BUILT DRAWING**

FIELD BOOKS	TBM. NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	SCALE	REV	DATE	DESCRIPTION	BY	No.	DESCRIPTION	DATE
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STAKING:				DESIGN	MDR	JYV	VERT:					3	CITY OF FERDALE	10.06.05
AS-BUILT:				XREF: ENG_BASE_30x_REV2.dwg								4	AS-BUILT	1.12.07
				DWG # LANDSCAPE_PLAN.dwg								5	AS-BUILT	2.28.07
SURVEY REFERENCE	VERTICAL DATUM	PLAN CHECK	REVISIONS	ISSUE										

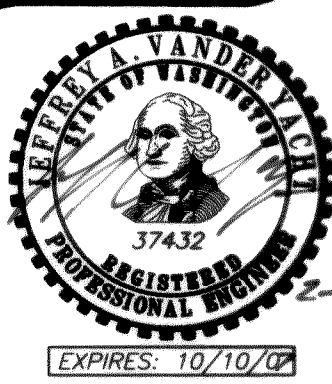


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**PACIFIC INDUSTRIAL PARK**  
SPECIFIC BINDING SITE PLAN No. 7, LOT 17  
**LANDSCAPING PLAN**

JOB #: 2005112

SHEET 6 OF 12



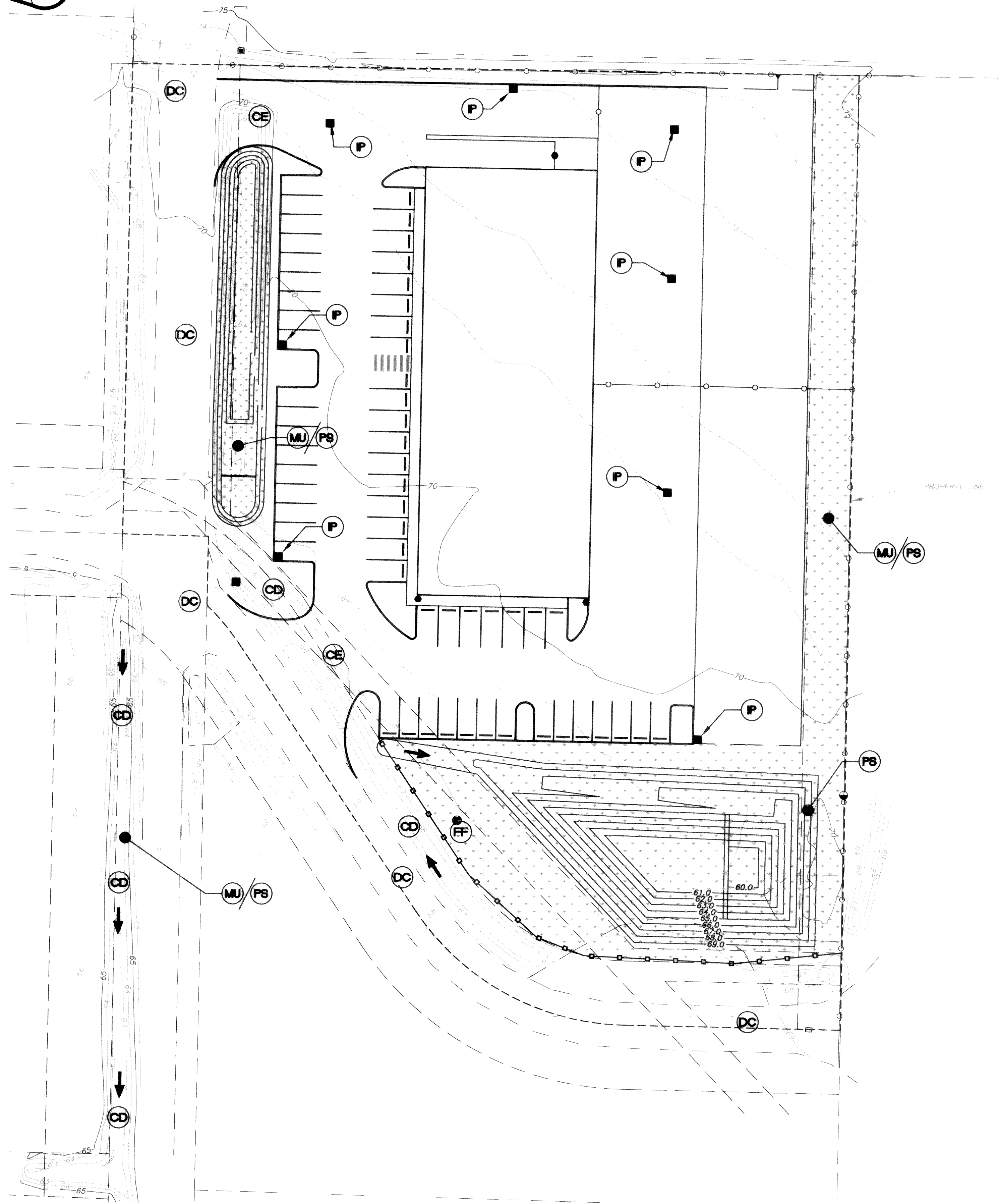
EXPIRES: 10/10/09

00356.006 1-24-08 12





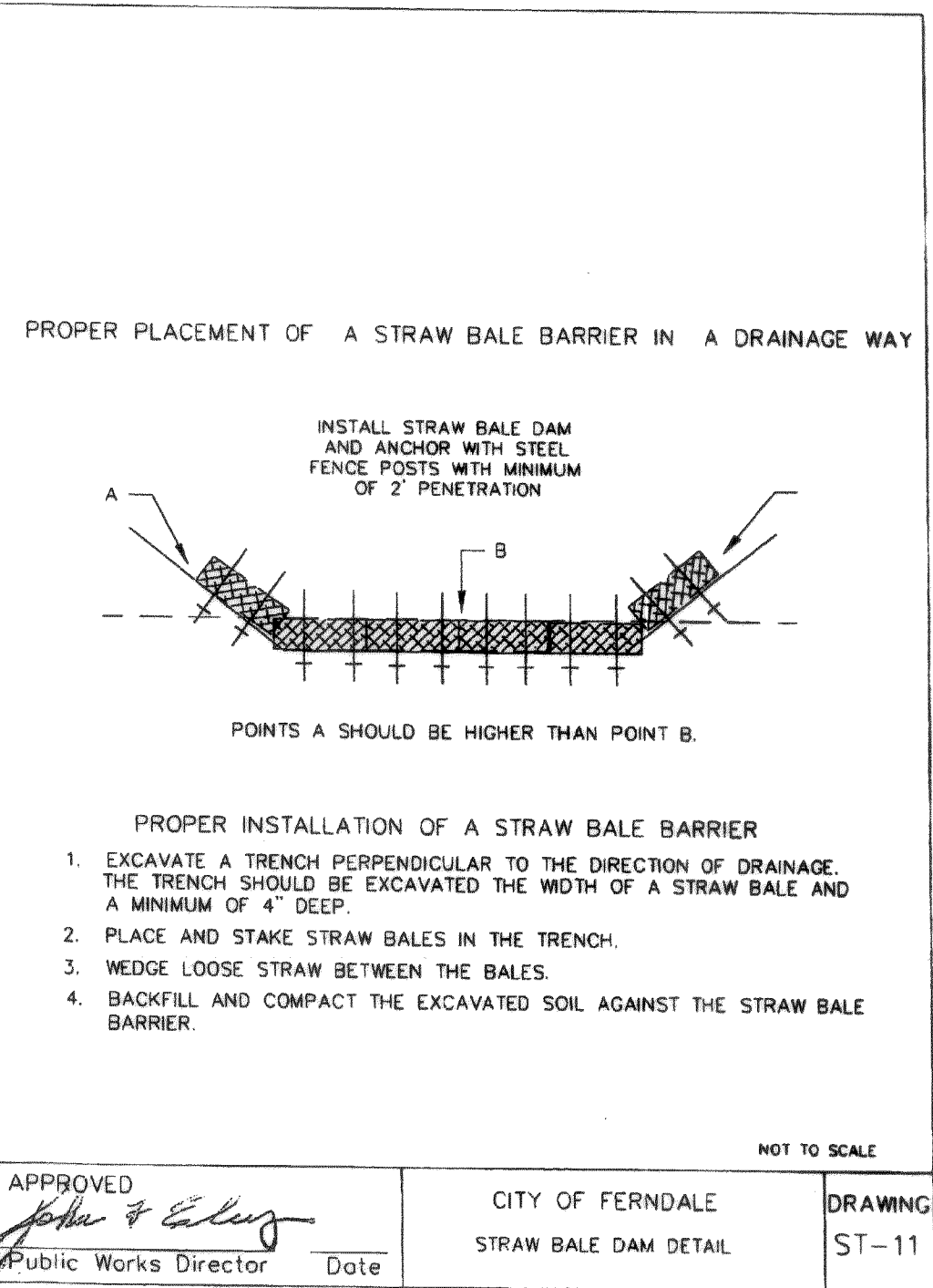
**PACIFIC SURVEY & ENGINEERING INC** www.psesurvey.com  
1812 CORNWALL, BELLINGHAM, WA 98225 PHONE: 671.7387 FAX: 671.4685 EMAIL: pse@psurvey.com



**LEGEND**

- CD = CHECK DAMS, BMP C207
- CE = STABILIZED CONSTRUCTION ENTRANCE, BMP C105
- DC = DUST CONTROL, BMP C140
- FF = SILT FENCE, BMP C233
- P = CATCH BASIN INSERT
- MU = MULCHING BMP C121
- PS = TEMPORARY AND PERMANENT SEEDING, BMP C120
- = SILT FENCE PER FF

SEE TЕСP NOTES AND DETAILS SHEET 8

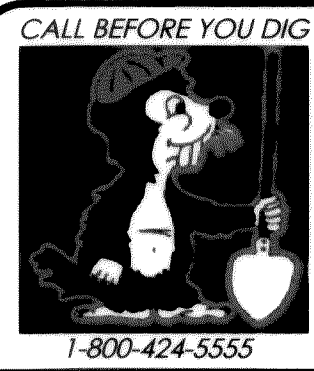


APPROVED  
APR 16 2007  
BY RC  
CITY OF FERNDALЕ

AS-BUILT NOTE:  
ONLY INFORMATION NOTED AS  
"AB" HAS BEEN FIELD SURVEYED  
OR MEASURED DURING CONSTRUCTION.

**AS-BUILT  
DRAWING**

FIELD BOOKS	TBM. NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	SCALE	REV	DATE	DESCRIPTION	BY	No.	DATE
DESIGN:				BASE	DPC	JVY	HORIZ:					2	CITY OF FERNDALЕ 9.23.05
STAKING:				DESIGN	MDR	JVY	VERT:					3	CITY OF FERNDALЕ 10.06.05
ASBUILT:				XREF: expresselectric_topo_30x								4	AS-BUILT 1.12.07
				DWG # TЕСP								5	AS-BUILT 2.28.07
SURVEY REFERENCE		VERTICAL DATUM		PLAN CHECK				REVISIONS				ISSUE	

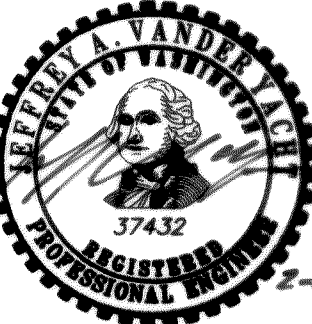


**EXPRESS ELECTRIC**  
3969 HAMMER DRIVE  
BELLINGHAM, WA 98226

**PACIFIC INDUSTRIAL PARK**  
SPECIFIC BINDING SITE PLAN No. 7, LOT 17  
**TEMPORARY EROSION & SEDIMENT CONTROL PLAN**

JOB #: 2005112

SHEET 7 OF 12



EXPIRES: 10/10/09

00386.007 1-24-08 K4

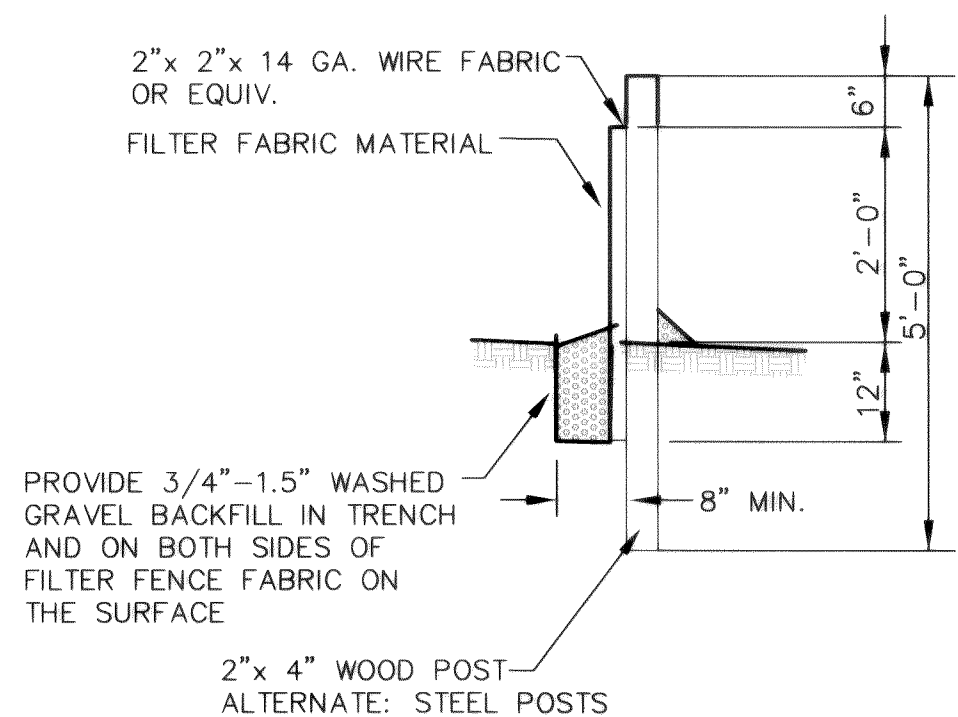




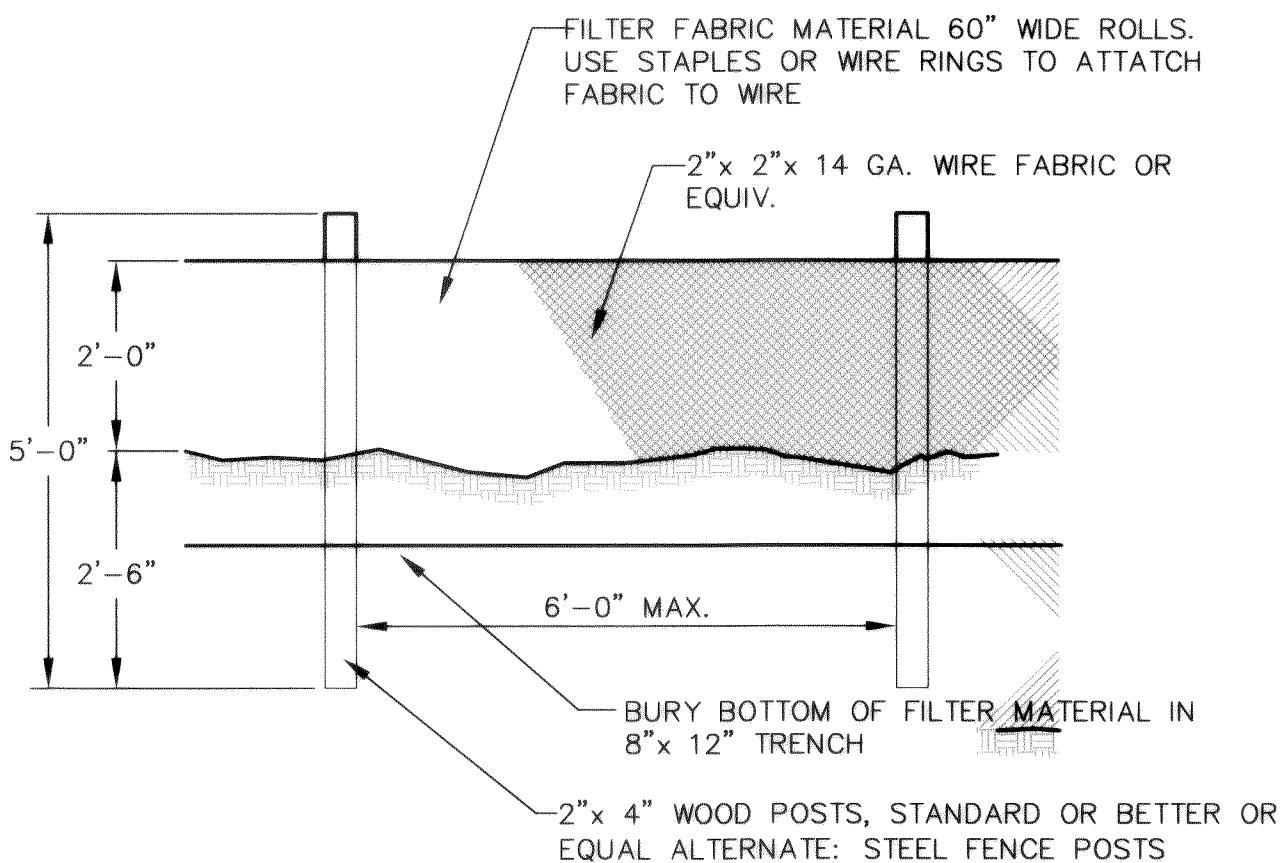
PACIFIC SURVEY & ENGINEERING INC  
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PHONE: 671.7387 FAX: 671.4685  
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#### FILTER FENCE NOTES

1. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT 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.
2. 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).
3. 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.
4. 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.
5. 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.
6. 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.
7. THE TRENCH SHALL BE BACKFILLED WITH 3/4-INCH MINIMUM DIAMETER WASHED GRAVEL.
8. FILTER FABRIC FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
9. FILTER FABRIC FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.



CROSS SECTION VIEW



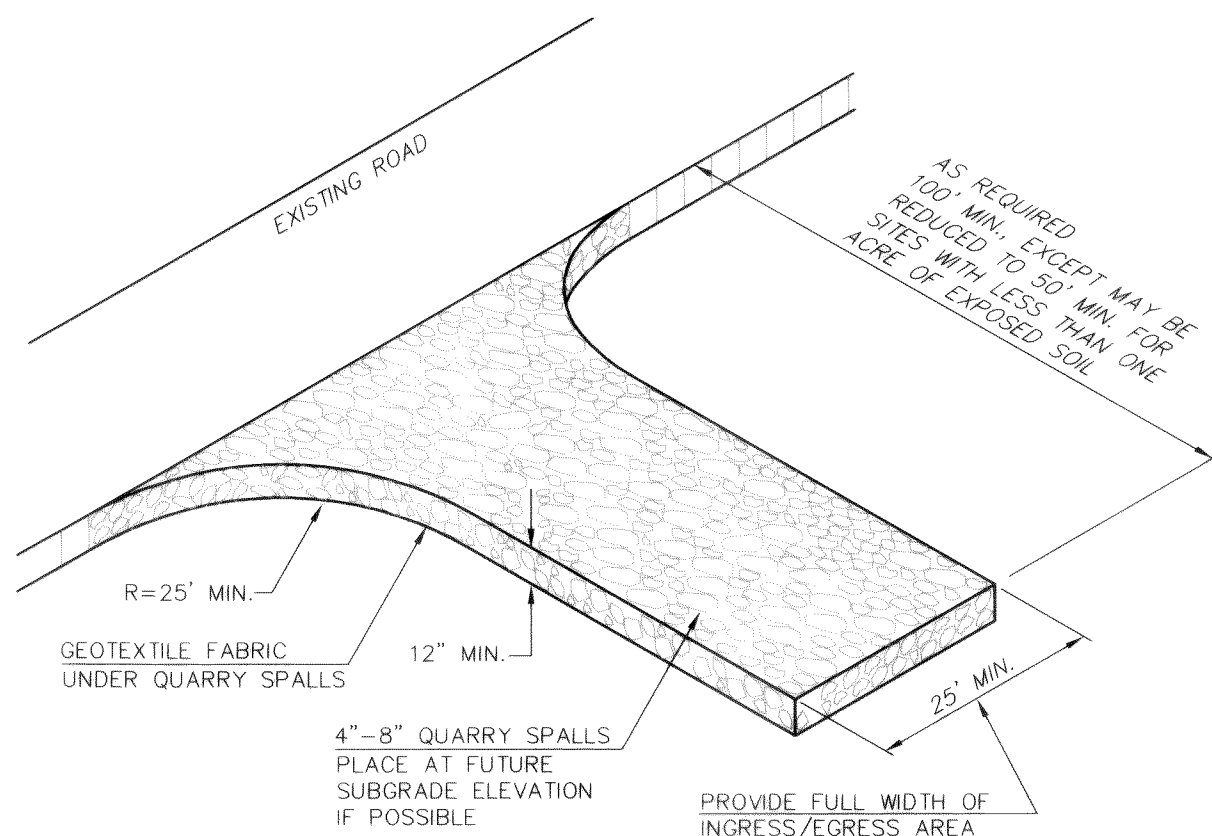
ELEVATION VIEW

#### SILT FENCE DETAILS

NOT TO SCALE

#### MAINTENANCE:

THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 4 TO 8-INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

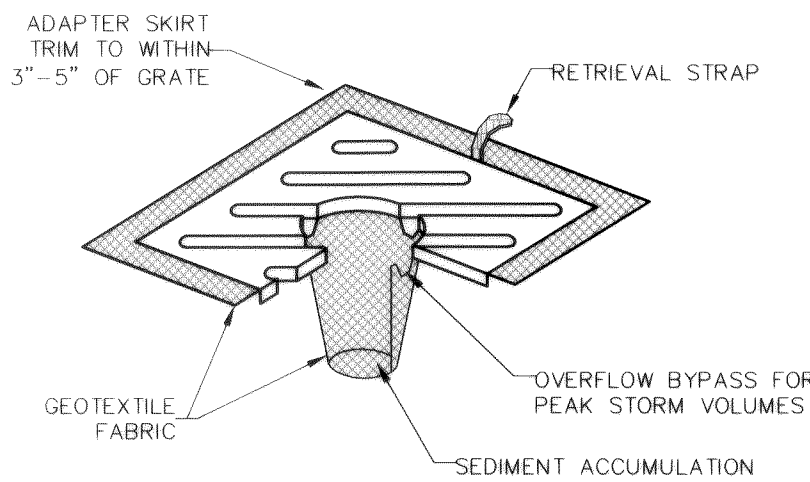


#### ROCK STABILIZATION CONSTRUCTION ROAD ENTRANCE

NOT TO SCALE

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AS-BUILT  
DRAWING



#### 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.

#### CATCH BASIN INSERT EC-5

NOT TO SCALE

#### TEMPORARY EROSION/SEDIMENTATION CONTROL

1. A COPY OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
2. 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.).
3. 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.
4. 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.
5. 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 INSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS.
6. 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.
7. THE TESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
8. 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.).
9. ANY AREA NEEDING TESC MEASURES, NOT REQUIRING IMMEDIATE ATTENTION, SHALL BE ADDRESSED WITHIN FIFTEEN (15) DAYS.
10. 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.
11. AT NO TIME SHALL MORE THAN ONE FOOT 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 DOWNSTREAM SYSTEM.
12. STABILIZED CONSTRUCTION ENTRANCES AND WASH PADS SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
13. 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.
14. ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE PERMANENT FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION OR DISPERSION SYSTEM, THE FACILITY SHALL NOT BE USED AS A TEMPORARY SETTLING BASIN. NO UNDERGROUND DETENTION TANK, DETENTION VAULT, OR SYSTEM WHICH BACKS UNDER OR INTO A POND SHALL BE USED AS A TEMPORARY SETTLING BASIN.
15. 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).
16. WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF TWO INCHES.
17. ALL EROSION/SEDIMENTATION CONTROL PONDS WITH A DEAD STORAGE DEPTH EXCEEDING 6 INCHES MUST HAVE SLOPES NOT STEEPER THAN 3H:1V.
18. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS.
19. 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 AND THE CITY INSPECTOR.

#### TEMPORARY SEEDING NOTES

1. SEEDBED PREPARATION MAY INCLUDE THE FOLLOWING:
  - A. 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.
  - B. IF CONSTRUCTION FILLS HAVE LEFT SOIL EXPOSED WITH A LOOSE, ROUGH OR IRREGULAR SURFACE, TRACK WALK UP SLOPE.
  - C. IF CUTS OR CONSTRUCTION EQUIPMENT HAVE LEFT A TIGHTLY COMPACTED SURFACE, BREAK WITH CHISEL PLOW OR OTHER SUITABLE EQUIPMENT.
  - D. 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.
2. FERTILIZATION - AS PER SUPPLIER'S RECOMMENDATIONS. DEVELOPMENTS ADJACENT TO WATER BODIES MUST USE NON-PHOSPHOROUS FERTILIZER.
3. HYDROSEEDING APPLICATIONS WITH APPROVED SEED-MULCH-FERTILIZER MIXTURES MAY ALSO BE USED.
4. 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

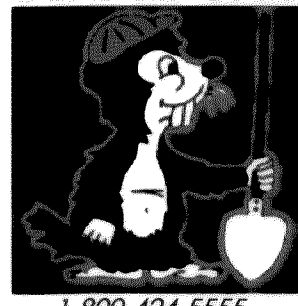
APPROVED

APR 16 2007

BY RC  
CITY OF FERDALE

FIELD BOOKS	TBM. NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	SCALE	REV	DATE	DESCRIPTION	BY	No.	DATE
DESIGN:				BASE	DPC	JVY	HORIZ:					2	CITY OF FERDALE 9.23.05
STAKING:				DESIGN	MDB	JVY	VERT:					3	CITY OF FERDALE 10.06.05
ASBUILT:				XREF: expresselectric_topo_30x								4	AS-BUILT 1.12.07
				DWG # TESC								5	AS-BUILT 2.28.07
SURVEY REFERENCE	VERTICAL DATUM	PLAN CHECK	REVISIONS	ISSUE									

CALL BEFORE YOU DIG



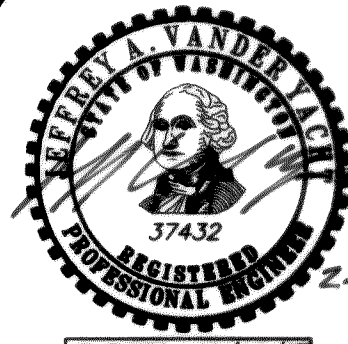
EXPRESS ELECTRIC  
3969 HAMMER DRIVE  
BELLINGHAM, WA 98226

PACIFIC INDUSTRIAL PARK  
SPECIFIC BINDING SITE PLAN No. 7, LOT 17

#### ERIOSION & SEDIMENT CONTROL NOTES & DETAILS

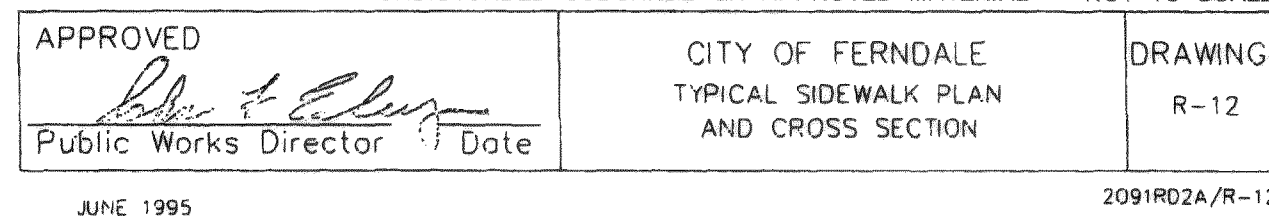
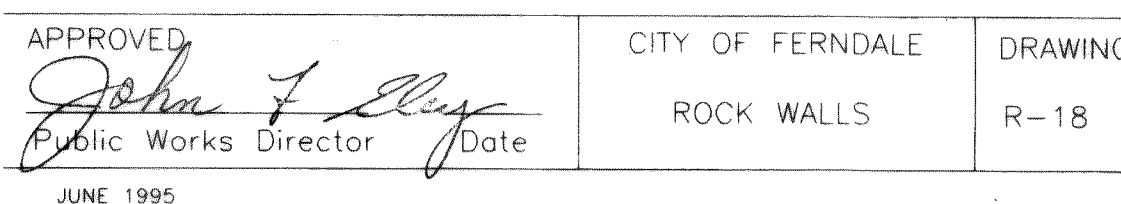
JOB #: 2005112

SHEET 8 OF 12



00386.008 1-24-08






NOTE: SPACING OF ANCHOR BARS SHALL BE 10" ON CENTER  
WITH A #3 BAR LOCATED 1'0" FROM THE END OF ANY  
CUR/SAWED CURB JOINT.

ALTERNATE CURB INSTALLATIONS PER WSDOT STANDARDS  
F-26 ARE ACCEPTABLE.



APPROVED  Public Works Director	CITY OF FERNDALE EXTRUDED CURB	DRAWING R-10
JUNE 1995	Date	2091S14A/R

APPROVED  
APR 16 2007  
BY RC  
CITY OF FERNDALE

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# AS-BUILT DRAWING

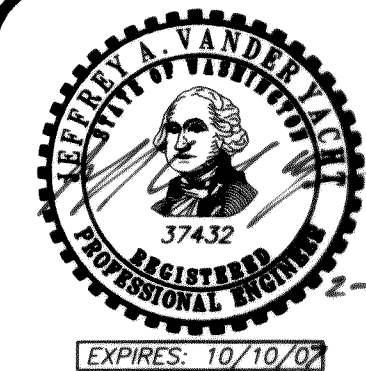
**EXPRESS ELECTRIC**  
3969 HAMMER DRIVE  
BELLINGHAM, WA 98226

**PACIFIC INDUSTRIAL PARK**  
SPECIFIC BINDING SITE PLAN No. 7, LOT 17  
1354 PACIFIC PLACE

## STREET & SIDEWALK DETAILS

JOB #:2005112

SHEET 9 OF 12

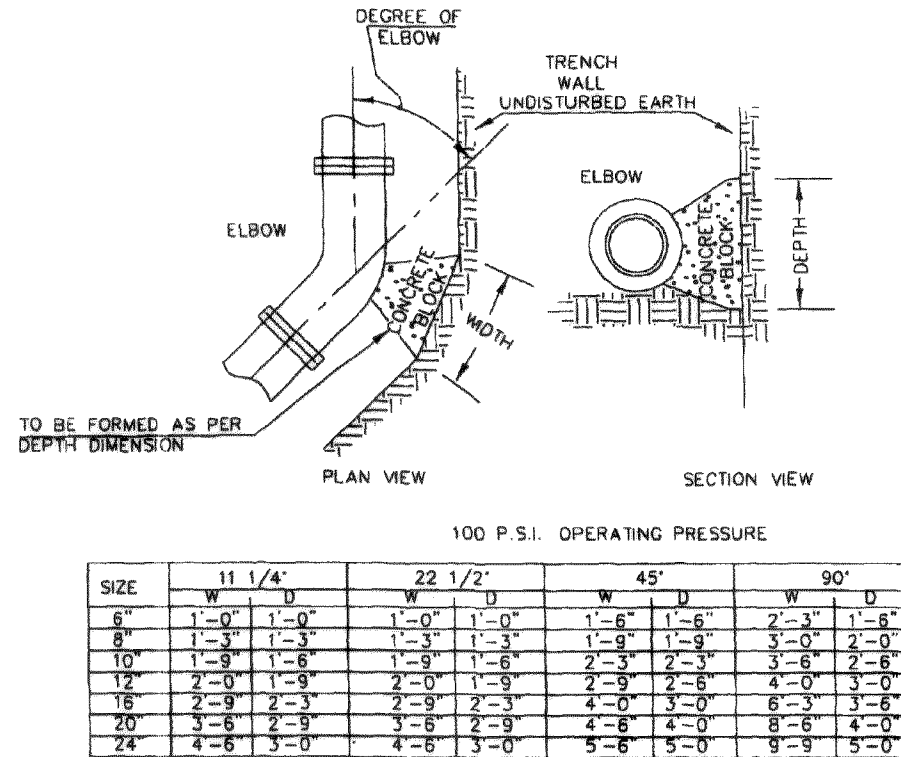






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NOTE:  
ALL ABOVE DIMENSIONS APPLY TO STABLE TRENCH WALLS, UNDER VARIABLE CONDITIONS SIZE OF THRUST BLOCK SHALL BE DETERMINED BY ENGINEER.

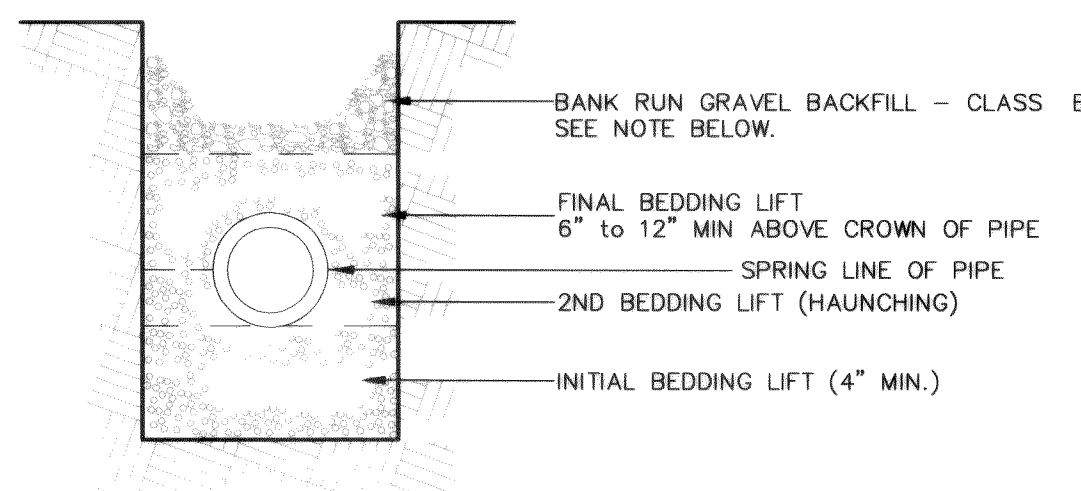
APPROVED: [Signature] DATE: [ ] CITY OF FERDALE THURST BLOCK ELBOWS DRAWING W-2  
Public Works Director Date 2091WA24/W-2  
JUNE 1995

### BEDDING SPECIFICATIONS FOR D.I.P. WATERLINE

THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS ARE TO BE USED IN CONJUNCTION WITH THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, CURRENT EDITION:

#### BEDDING FOR DUCTILE IRON PIPE WATERLINE-

BEDDING MATERIAL FOR THE DUCTILE IRON PIPE SHALL BE SELECT GRANULAR MATERIAL FREE FROM WOOD WASTE, ORGANIC MATERIAL, OR OTHER EXTRANEOUS OR OBJECTIONABLE MATERIALS AND SHALL HAVE A MAXIMUM DIMENSION OF 1-1/2 INCHES OR APPROVED PIPE BEDDING PER WSDOT SPECIFICATION SECTION 7-10.3(9). MATERIAL SHALL BE PLACED TO A MINIMUM DEPTH OF 4 INCHES UNDER THE PIPE AND 6 INCHES OVER THE TOP OF THE PIPE. THE BEDDING MATERIAL SHALL BE RAMMED AND TAMPED AROUND THE PIPE TO 95 PERCENT OF MAXIMUM DENSITY BY APPROVED HAND-HELD TOOLS, SO AS TO PROVIDE FIRM AND UNIFORM SUPPORT FOR THE FULL LENGTH OF THE PIPE, VALVES, AND FITTINGS. CARE SHALL BE TAKEN TO PREVENT ANY DAMAGE TO THE PIPE OR ITS PROTECTIVE COATING. PEA GRAVEL AND BUCKSHOT ARE NOT ACCEPTABLE BEDDING MATERIAL.

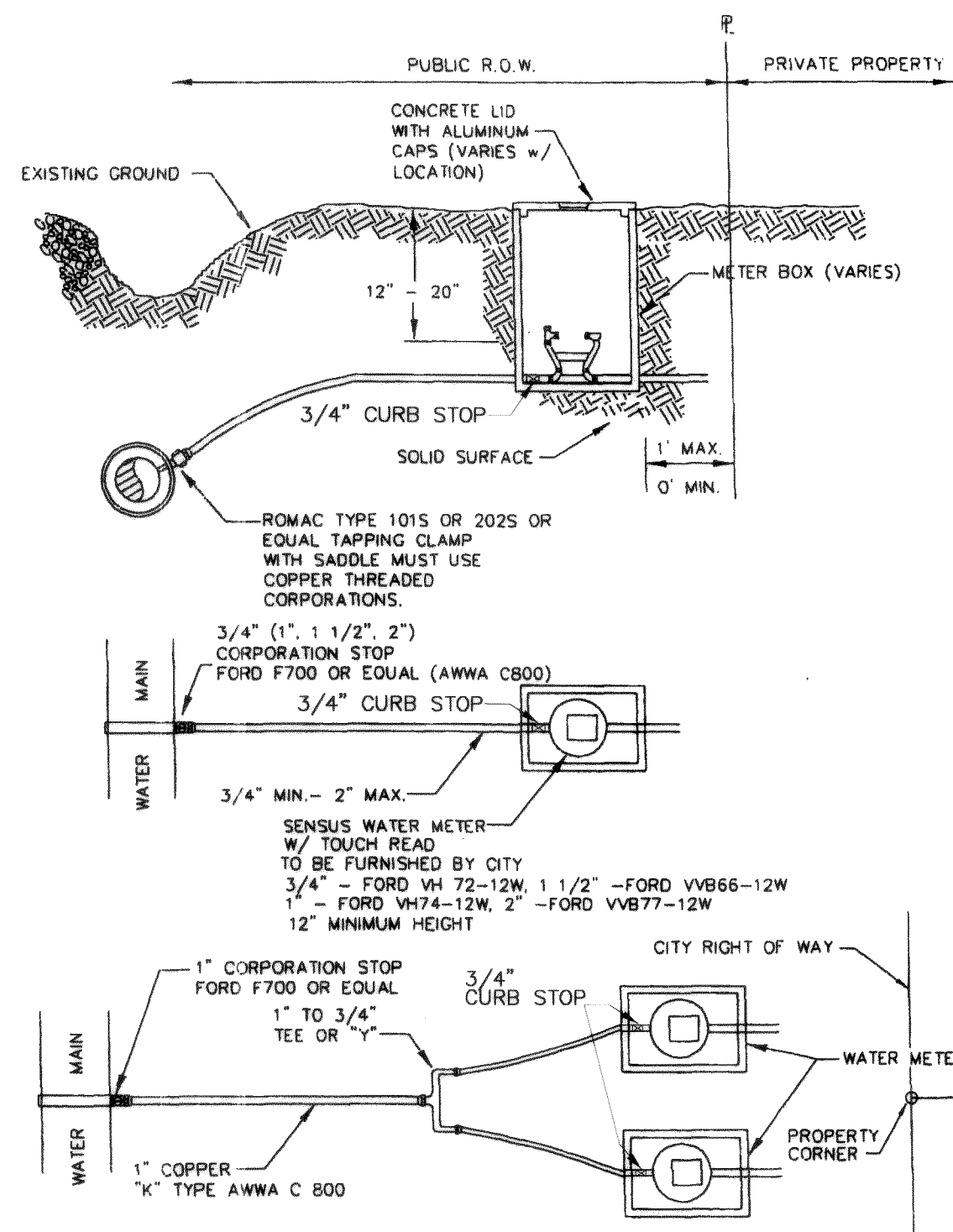


BACKFILL - WHEREVER A TRENCH IS EXCAVATED IN THE EXISTING OR PROPOSED ROADWAY, SIDEWALK OR OTHER AREAS WHERE SETTLEMENT WOULD BE DETRIMENTAL, THE ENTIRE TRENCH SHALL BE BACKFILLED WITH IMPORTED GRAVEL AND COMPACTED TO 95% OF MAXIMUM DENSITY.

### DIP WATERLINE BEDDING DETAIL

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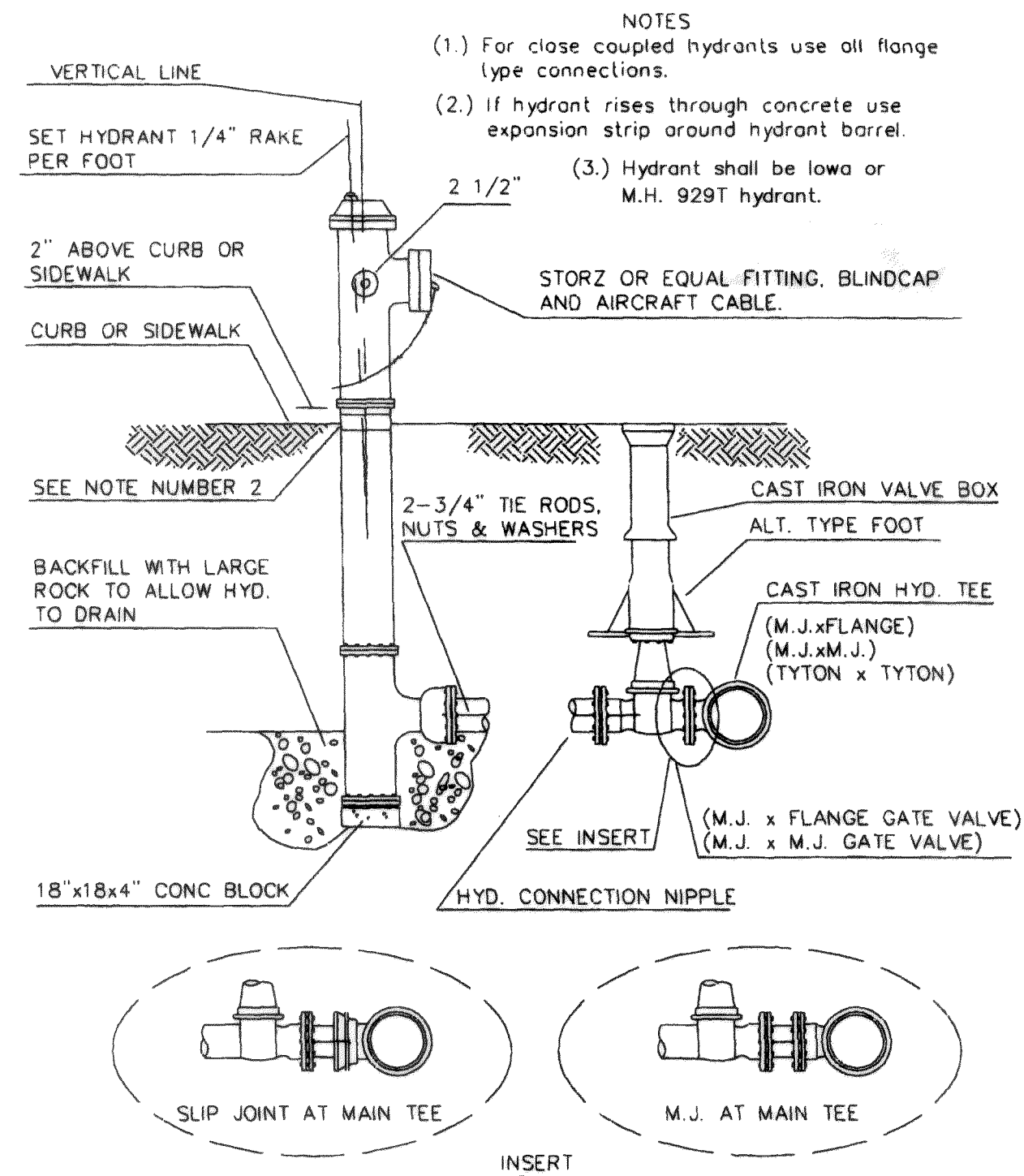
## AS-BUILT DRAWING



APPROVED: [Signature] DATE: [ ] CITY OF FERDALE TYPICAL WATER SERVICE (3/4" TO 2") DRAWING W-5  
Public Works Director Date 2091WA1A/W-5  
JUNE 1995

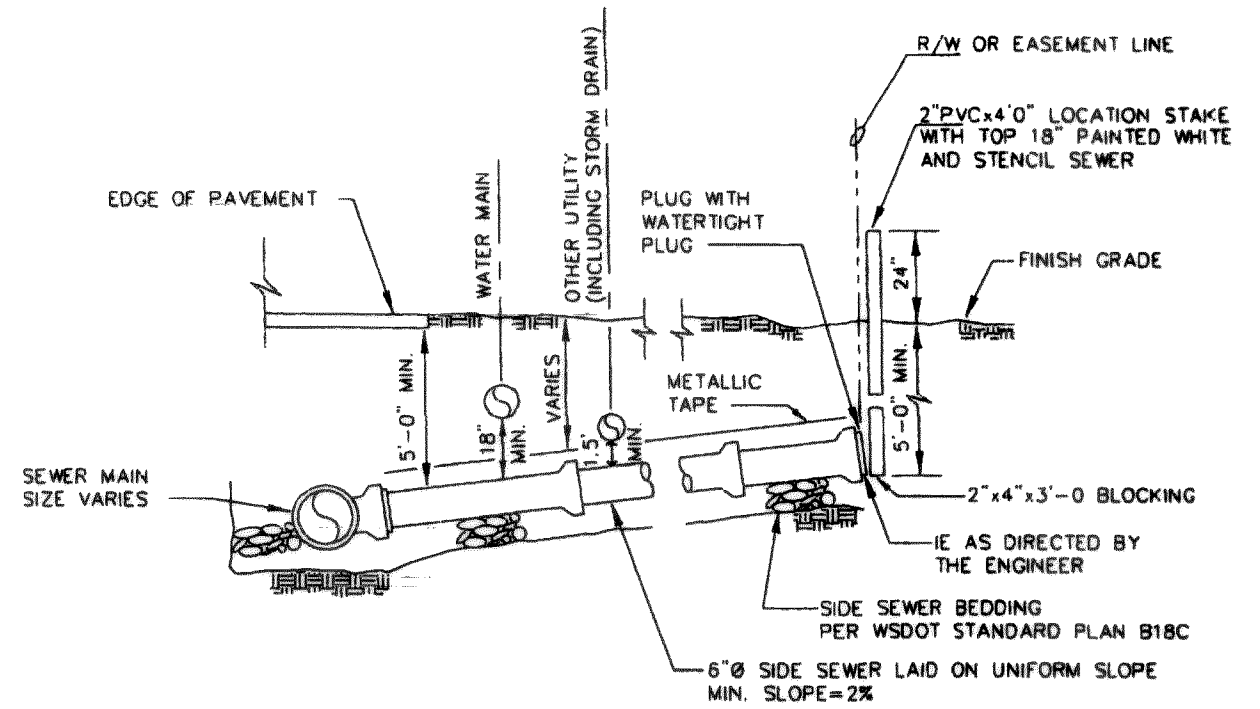
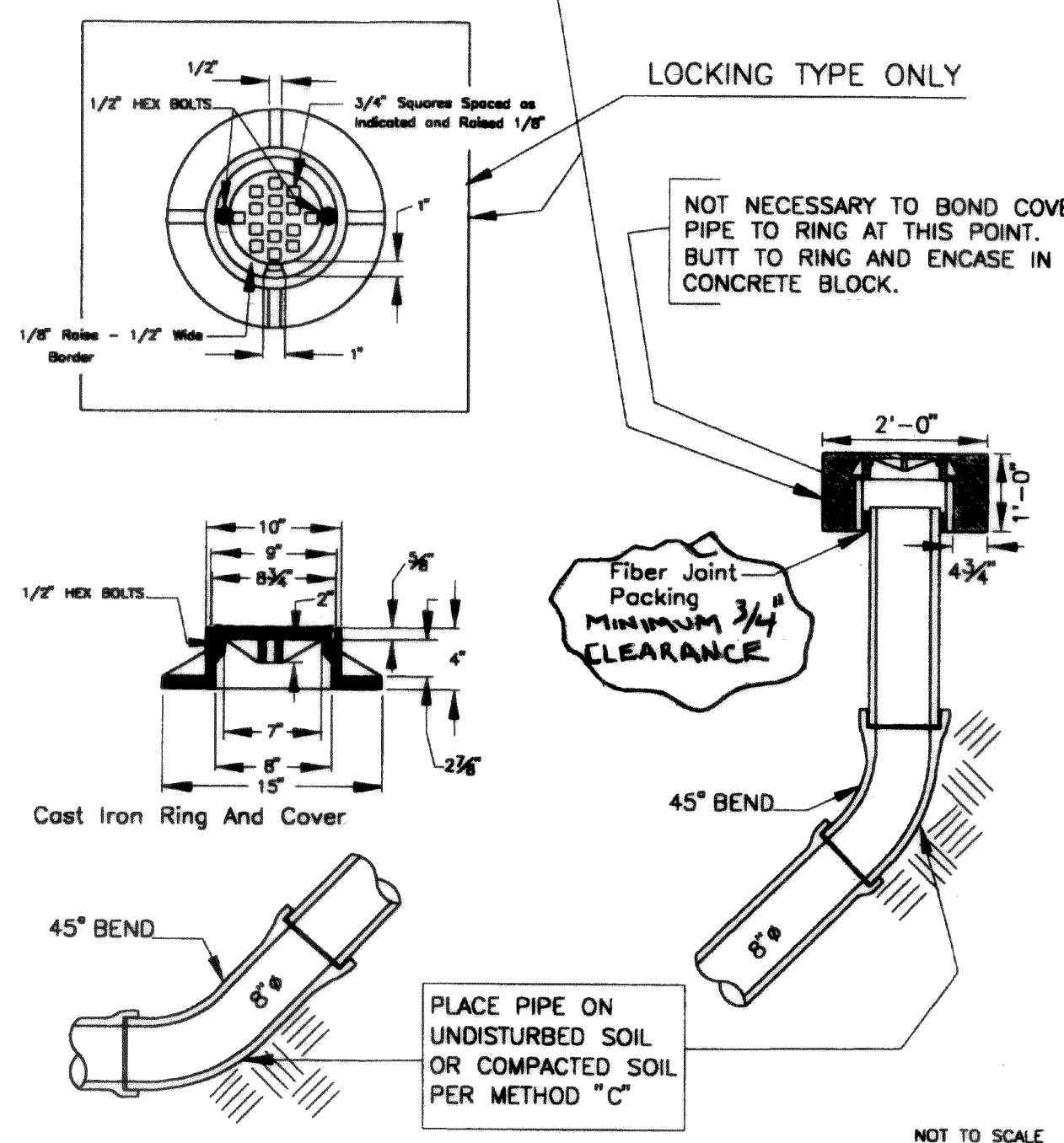
NOTE:  
ALL ABOVE DIMENSIONS APPLY TO STABLE TRENCH WALLS, UNDER VARIABLE CONDITIONS SIZE OF THRUST BLOCK SHALL BE DETERMINED BY ENGINEER.

APPROVED: [Signature] DATE: [ ] CITY OF FERDALE THURST BLOCK TEES DRAWING W-3  
Public Works Director Date 2091WA2A/W-3  
JUNE 1995



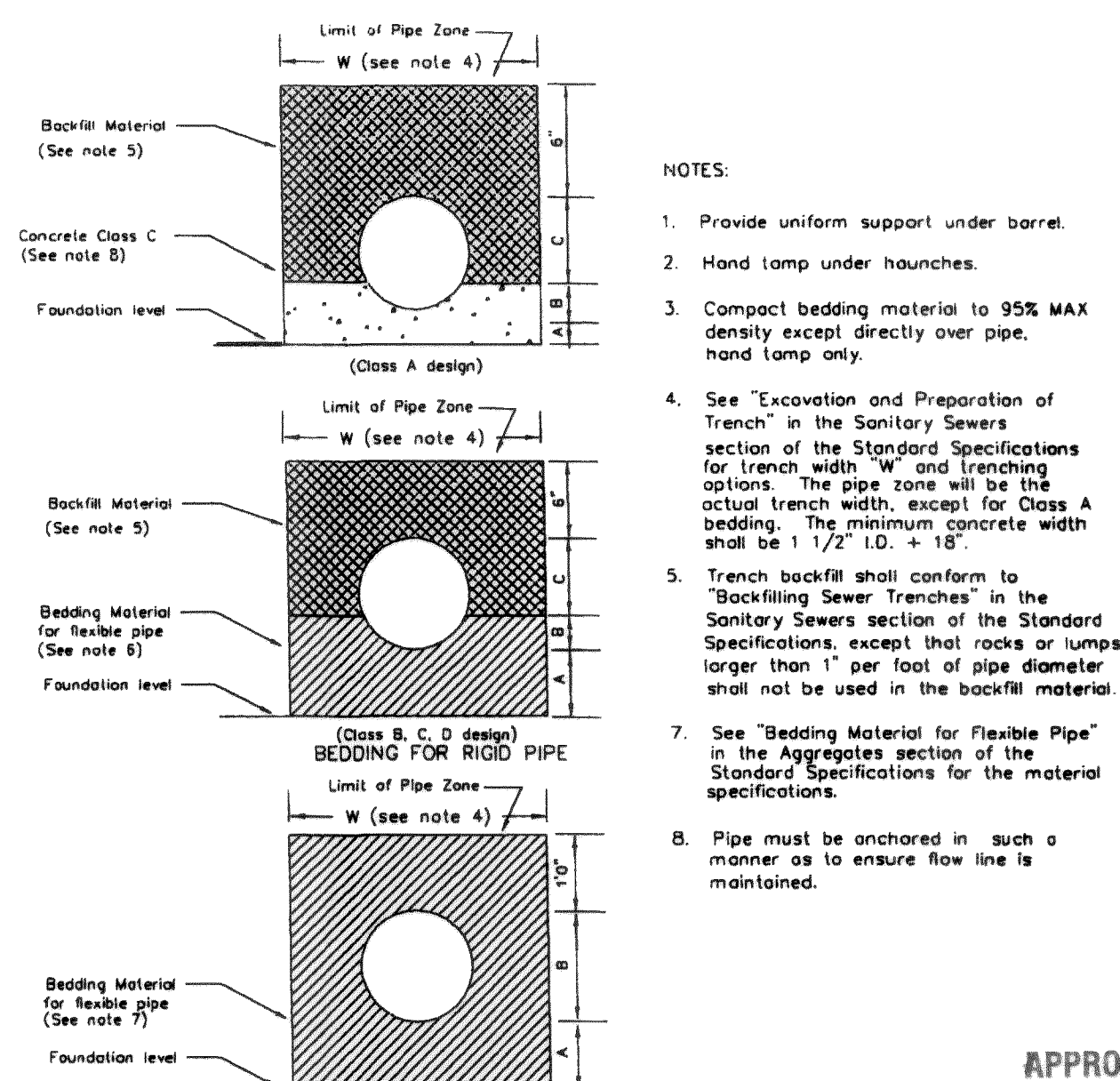
APPROVED: [Signature] DATE: [ ] CITY OF FERDALE FIRE HYDRANT ASSEMBLY DRAWING W-1  
Public Works Director Date 2091WA2A/W-1  
JUNE 1995

2' SQUARE CONCRETE BLOCK TO ENCASE CLEAN-OUT. IF CLEAN-OUT IS IN ASPHALT, THE BLOCK IS TO BE LEFT APPROX. 1 1/2" LOW TO ALLOW FOR AN ASPHALT TOPPING OF LIKE MIXTURE AS THE SURROUNDING AREA. IN ALL CASES THE CONCRETE BLOCK WILL BE 1" THICK.



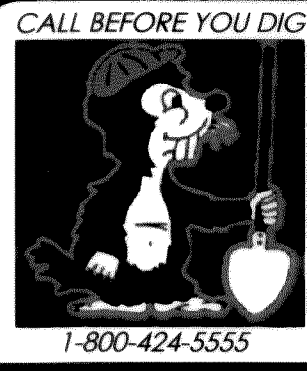
### NORMAL INSTALLATION SIDE SEWER 15" AND SMALLER

APPROVED: [Signature] DATE: [ ] CITY OF FERDALE NORMAL INSTALLATION 15" AND SMALLER SEWER MAINS DRAWING SS-6  
Public Works Director Date 2091SE3A/SS-6  
JUNE 1995



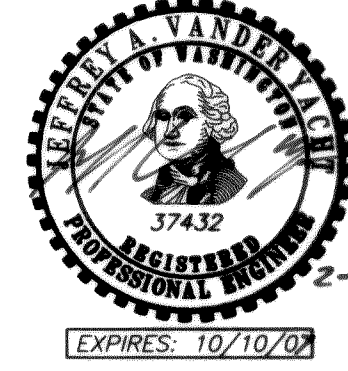
APPROVED: [Signature] DATE: [ ] CITY OF FERDALE PIPE BEDDING FOR SANITARY SEWERS DRAWING SS-1  
Public Works Director Date 2091SE3A/SS-1  
JUNE 1995

FIELD BOOKS	TBM. NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	SCALE	REV	DATE	DESCRIPTION	BY	No.	DESCRIPTION	DATE
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				DWG # C.N.D								5	AS-BUILT	2.28.07
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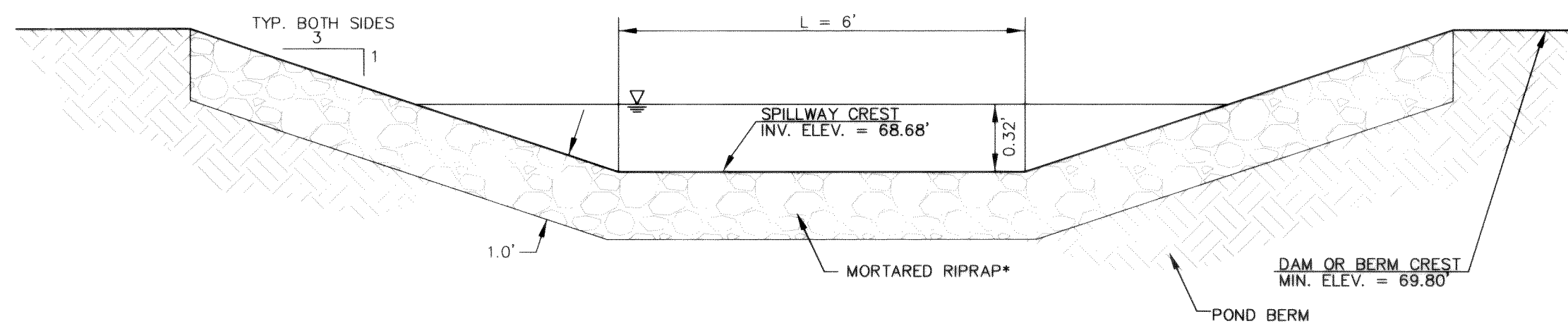


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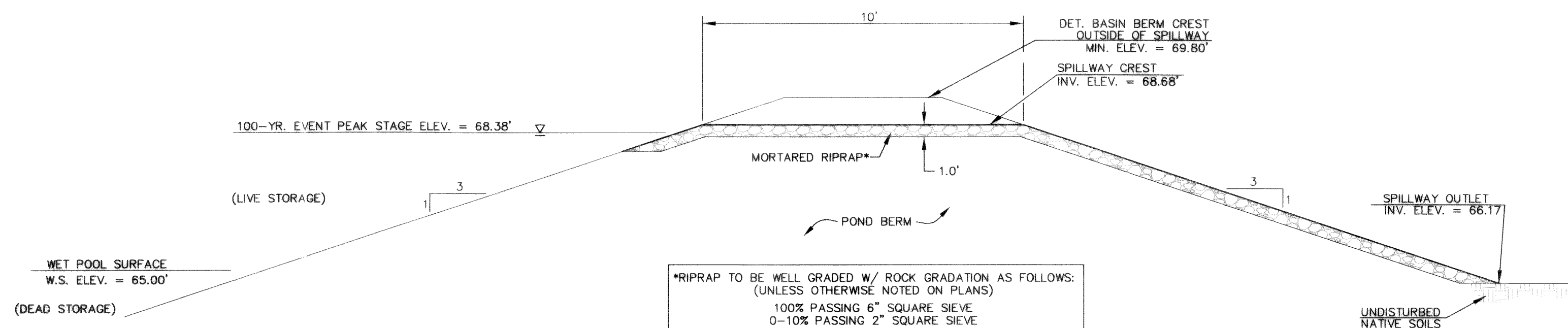
PACIFIC INDUSTRIAL PARK  
SPECIFIC BINDING SITE PLAN No. 7, LOT 17  
1354 PACIFIC PLACE  
SANITARY SEWER & WATER SYSTEM DETAILS  
JOB #:2005112  
SHEET 10 OF 12



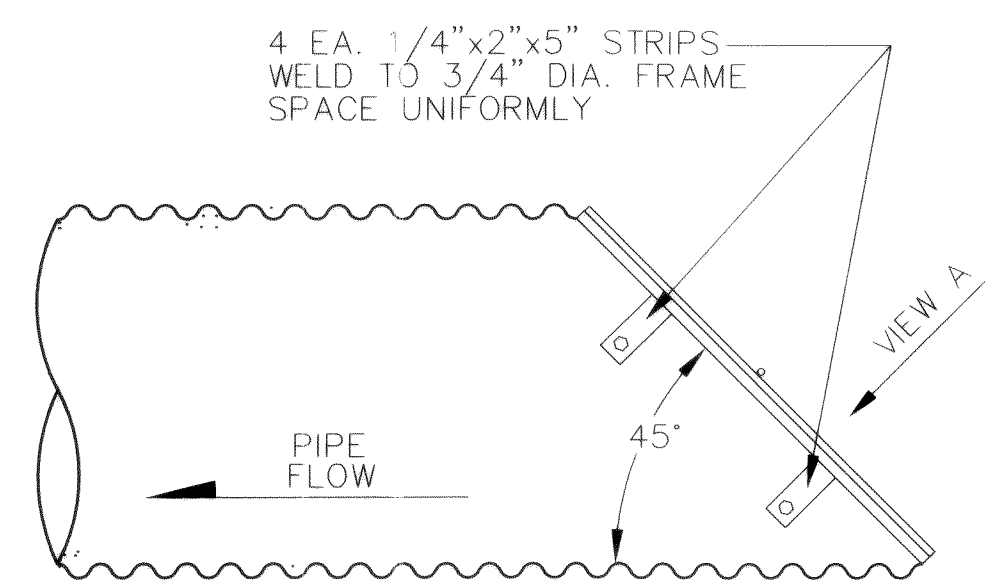




EMERGENCY OVERFLOW SPILLWAY-SECTION  
NOT TO SCALE



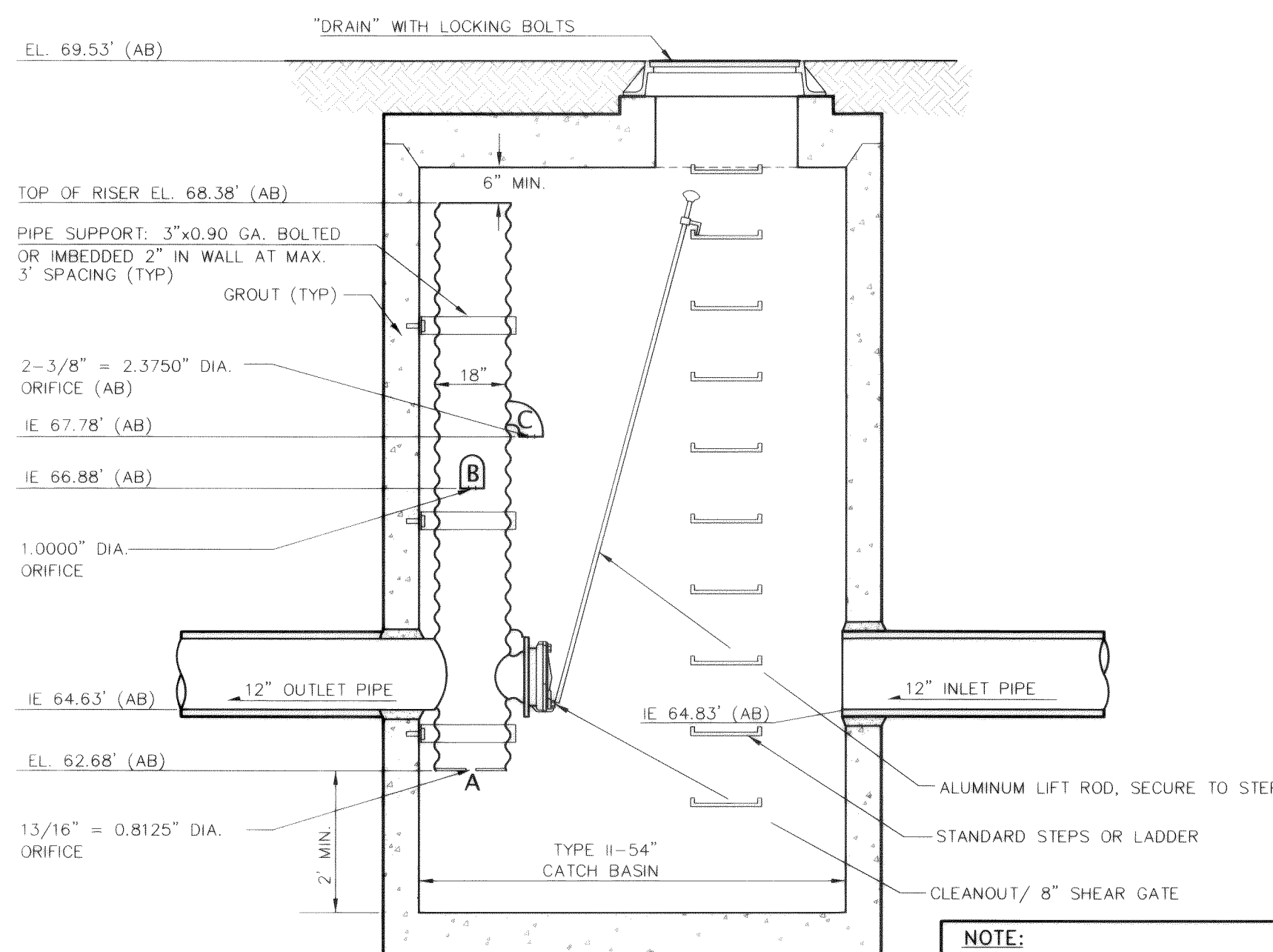
EMERGENCY OVERFLOW SPILLWAY-PROFILE  
NOT TO SCALE



TRASH RACK FOR SD OUTLET DETAIL  
NOT TO SCALE

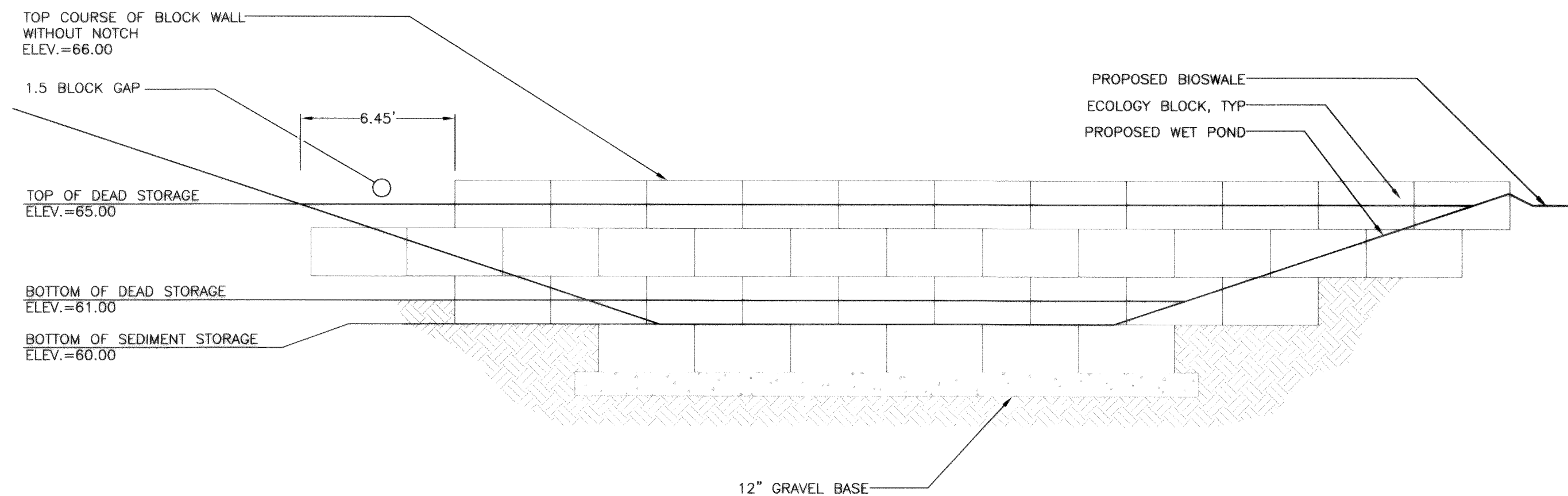
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"(AB)" HAS BEEN FIELD SURVEYED  
OR MEASURED DURING CONSTRUCTION.

AS-BUILT  
DRAWING



CONTROL STRUCTURE  
NOT TO SCALE

NOTE:  
1. ALL ORIFICES TO BE FABRICATED BY SHOP DRILLING HOLES OF APPROPRIATE DIAMETER IN METAL PLATE AND WELDING IT INTO PLACE AT THE BOTTOM OF THE MAIN RISER AND THE ELBOWS.  
2. ALL WELDS ARE TO BE CORROSION TREATED.  
3. USE CORROSION RESISTANT NON-GALVANIZED METAL RISER AND PARTS WHERE POSSIBLE. ANY GALVANIZED METAL PARTS MUST BE ASPHALT TREATED. ORIFICE PLATES MAY NOT BE ASPHALT TREATED.



ECOLOGY BLOCK CELL WALL DETAIL  
NOT TO SCALE

### BEDDING SPECIFICATIONS FOR PLASTIC PIPE

THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS ARE TO BE USED IN CONJUNCTION WITH THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, CURRENT EDITION.

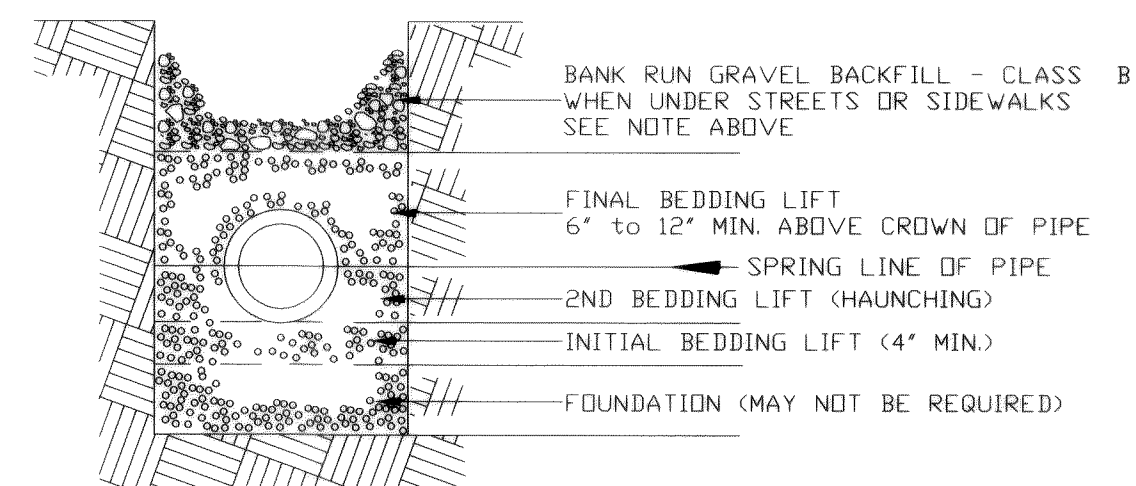
BEDDING FOR SEWERS, DRAINS AND CULVERTS FOR PLASTIC PIPE--

BEDDING MATERIAL FOR PLASTIC PIPE SHALL BE PEA GRAVEL CONFORMING TO THE FOLLOWING SPECIFICATIONS.

PEA GRAVEL -- PEA GRAVEL BEDDING SHALL BE A CLEAN MIXTURE FREE FROM ORGANIC MATTER AND CONFORMING TO THE FOLLOWING GRADATION WHEN TESTED IN ACCORDANCE WITH ASTM D422:

U.S. STANDARD SIEVE SIZE	PERCENT PASSING, BY WT.
3/4"	100
3/8"	95-100
#8	0-10
#200	0-3

BACKFILL -- WHEREVER A TRENCH IS EXCAVATED IN THE EXISTING OR PROPOSED ROADWAY, SIDEWALK OR OTHER AREAS WHERE SETTLEMENT WOULD BE DETRIMENTAL, THE ENTIRE TRENCH SHALL BE BACKFILLED WITH IMPORTED GRAVEL AND COMPACTED TO 95% OF MAXIMUM DENSITY.



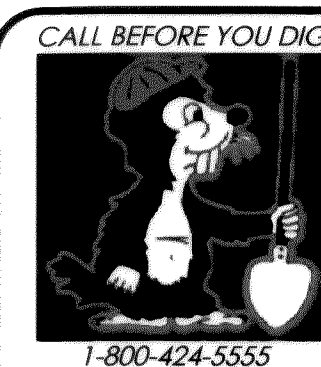
PLASTIC PIPE BEDDING  
DETAIL

APPROVED

APR 10 2007

BY RC  
CITY OF FERNDAL

FIELD BOOKS	TBM. NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	SCALE	REV	DATE	DESCRIPTION	BY	No.	DESCRIPTION	DATE
DESIGN:				BASE	DPG	JVY	HORIZ.					2	CITY OF FERNDAL	9.23.05
STAKING:				DESIGN	MDR	JVY	VERT.					3	CITY OF FERNDAL	10.06.05
ASBUILT:				XREF:								4	AS-BUILT	1.12.07
				DWG # C_N_D								5	AS-BUILT	2.28.07
SURVEY REFERENCE				PLAN CHECK				REVISIONS				ISSUE		



EXPRESS ELECTRIC  
3969 HAMMER DRIVE  
BELLINGHAM, WA 98226

PACIFIC INDUSTRIAL PARK  
SPECIFIC BINDING SITE PLAN No. 7, LOT 17  
1354 PACIFIC PLACE  
STORM DRAIN & SANITARY  
SEWER SYSTEM DETAILS  
JOB #:2005112  
SHEET 11 OF 12



00356 011 1-24-08 K2





PACIFIC SURVEY & ENGINEERING INC  
1812 CORNWALL, BELLINGHAM, WA 98225 PHONE:671.7387 FAX:671.4685  
www.psesurvey.com  
EMAIL: pse@psurvey.com

GENERAL REQUIREMENTS

- ALL WORK AND MATERIALS SHALL CONFORM TO THESE PLANS AND TO THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE STATE OF WASHINGTON, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. WORK AND MATERIALS SHALL ALSO CONFORM TO THE CITY OF FERNDALE DEVELOPMENT STANDARDS. IN CASE OF A CONFLICT BETWEEN PLANS, REGULATORY STANDARDS OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT WILL PREVAIL.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER CONSTRUCTION DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
- THE CONTRACTOR SHALL OBTAIN REVOCABLE ENCROACHMENT PERMITS FROM THE CITY OF FERNDALE AND WHATCOM COUNTY PRIOR TO COMMENCING WORK WITHIN PUBLIC RIGHTS-OF-WAY.
- THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH REPRESENTATIVES OF THE CITY OF FERNDALE PUBLIC WORKS DEPARTMENT AND THE PROJECT ENGINEER A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
- ALL WORK AND MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE OWNER'S ENGINEER AND/OR SUBJECT TO APPROVAL BY THE CITY OF FERNDALE, AS APPLICABLE. REPRESENTATIVES FROM THE CITY OF FERNDALE PUBLIC WORKS DEPARTMENT MUST INSPECT ALL WORK. THE CONTRACTOR SHALL CALL AT LEAST 24 HOURS IN ADVANCE TO SCHEDULE INSPECTIONS AS FOLLOWS:
  - PLACEMENT OF TEMPORARY EROSION CONTROL MEASURES.
  - PLACEMENT OF WATER MAIN AND BACKFILLING OF WATER MAIN TRENCH.
  - PLACEMENT AND BACKFILLING OF UNDERGROUND UTILITIES, STORM SEWER AND SANITARY SEWER.
  - GRADING OF ROADWAY AND/OR PARKING AREAS:
    - COMPLETION OF EXCAVATION TO SUBGRADE.
    - COMPLETION OF BALLAST COURSE PLACEMENT.
    - COMPLETION OF CRUSHED SURFACING COURSE PLACEMENT.
  - POURING OF CURB AND GUTTER AND SIDEWALK IN PUBLIC ROADWAY.
  - ASPHALT PAVING.
  - OVERALL INSPECTION FOR FINISHED SHOULDERS, DITCHES, PERMANENT SEEDING AND MONUMENT PLACEMENT.
  - END OF MAINTENANCE PERIOD.
- SITE CLEARING SHALL INCLUDE THE LOCATION AND REMOVAL OF ALL ABOVE GROUND AND BURIED DEBRIS AND WASTE THAT MAY BE PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING SUB-SURFACE CONDITIONS AND SOILS TYPES.
- 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 WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE AT LEAST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED. ALL SECTIONS OF THE WSDOT STANDARD SPECIFICATIONS 1-07.23-TRAFFIC CONTROL, SHALL PROGRESS.
- A COPY OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- THE CONTRACTOR SHALL INFORM THE ENGINEER AND OBTAIN APPROVAL FROM THE CITY OF FERNDALE PUBLIC WORKS DIRECTOR OF ANY PROPOSED DEVIATIONS 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 FERNDALE PUBLIC WORKS DEPARTMENT.
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE BASED UPON A COMBINATION OF FIELD RECONNAISSANCE, FIELD SURVEY AND UTILITY COMPANY RECORDS AND ARE SHOWN ON THESE PLANS IN AN APPROXIMATE WAY ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL OF THE VARIOUS UTILITY COMPANIES TO ARRANGE FOR FIELD LOCATIONS OF ALL EXISTING UTILITY FACILITIES PRIOR TO STARTING CONSTRUCTION. NO EXTRA COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR COSTS INCURRED BECAUSE OF DAMAGE DONE TO EXISTING FACILITIES BY THE CONTRACTOR'S WORK FORCE, INCLUDING COSTS FOR REPAIRS, WHICH WILL BE CONTRACTOR'S SOLE RESPONSIBILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ALL EXISTING UTILITIES AND TO NOTIFY THE ENGINEER PROMPTLY OF ANY CONFLICT BETWEEN THE APPROVED PLANS AND THE LOCATION OF ANY EXISTING UTILITIES. THE CONTRACTOR SHALL CONTACT UTILITY LOCATION SERVICE AT LEAST 48 HOURS PRIOR TO STARTING CONSTRUCTION. PHONE: 1-800-424-5555.
- 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.
- ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IF ANY DISCREPANCIES EXIST BETWEEN ACTUAL FIELD CONDITIONS AND THE ASSUMED CONDITIONS SHOWN ON THE APPROVED PLANS PRIOR TO PROCEEDING WITH CONSTRUCTION, SO THAT NECESSARY PLAN OR DESIGN CHANGES CAN BE MADE. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR EXTRA WORK, INCLUDING REMOVAL AND RECONSTRUCTION OF NEWLY BUILT IMPROVEMENTS, MADE NECESSARY BY ERRORS OF DIMENSION OR GRADE ON THE APPROVED PLANS, UNLESS SUCH NOTIFICATION WAS GIVEN.
- THROUGHOUT THE PERIOD OF CONSTRUCTION, CONTRACTOR SHALL COMPLY WITH THE TERMS OF ALL PERMITS.
- 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.
- ALL MATERIALS TESTING REQUIREMENTS FOR THE IMPROVEMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PERFORMED IN ACCORDANCE WITH THE INSTRUCTIONS OF THE CITY OF FERNDALE PUBLIC WORKS DIRECTOR. CONTRACTOR SHOULD DETERMINE THESE REQUIREMENTS PRIOR TO THE START OF CONSTRUCTION.
- ALL PORTLAND CEMENT CONCRETE SHALL BE APWA CLASS 3000, PER APWA STANDARD SPECIFICATIONS, SECTION 6-02.3(2)B.
- UNDERGROUND UTILITIES CONSTRUCTION
  - 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, 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 AT LEAST 48 HOURS BEFORE BURYING UNDERGROUND PIPE TO ASSURE AND FACILITATE REQUIRED AS-BUILT SURVEY. THE ENGINEER WILL PROVIDE CERTIFIED AS-BUILT MYLARS TO PUBLIC WORKS UPON PROVISIONAL ACCEPTANCE OF ROAD AND UTILITY IMPROVEMENTS.
  - THE CONSTRUCTION OF UNDERGROUND UTILITY LINES SHALL BE SUBJECT TO THE FOLLOWING CRITERIA:
    - NO MORE THAN 500 FEET OF TRENCH SHALL BE OPENED AT ONE TIME.
    - WHERE CONSISTENT WITH SAFETY AND SPACE CONSIDERATIONS, EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF DITCHES.
    - TRENCH DEWATERING DEVICES SHALL DISCHARGE INTO SEDIMENT TRAPS OR SEDIMENT PONDS.
    - WHERE PRACTICAL, INSTALL GRAVITY PIPE UTILITIES PRIOR TO INSTALLATION OF OTHER UTILITIES.
  - UTILITY CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF FERNDALE DEVELOPMENT STANDARDS.
  - TESTING OF NEW WATER LINES, SANITARY SEWER LINES, AND STORM SEWER SYSTEMS SHALL NOT BE PERFORMED UNTIL ALL OTHER ADJACENT UTILITIES HAVE BEEN INSTALLED.

ROAD

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

TYPICAL PAVEMENT SECTION CONCRETE CURB AND GUTTER CONCRETE SIDEWALKS CONCRETE CURB RAMPS, ADA APPROACHES	TYPICAL SECTION ON SHEET 1 OF THESE PLANS CITY OF FERNDALE STANDARD DETAIL (COFSD) R-10 COFSD R-12 & TYP. SECTION ON SHEET 2 WSDOT STD. DETAIL F-3
---	---
- ALTERNATE PAVEMENT SECTIONS, WHEN DESIGNED BY A LICENSED GEOTECHNICAL ENGINEER, MAY BE SUBMITTED TO THE CITY OF FERNDALE PUBLIC WORKS DIRECTOR FOR CONSIDERATION AND, IF APPROVED, USED IN PLACE OF THE PAVEMENT SECTION SHOWN ON THESE PLANS.
- EARTHWORK
  - THE CONTRACTOR SHALL CLEAR, GRUB AND CLEAN UP THOSE AREAS SHOWN ON THE PLANS.
  - THE CONTRACTOR SHALL RAZE, REMOVE AND DISPOSE OF ALL BUILDING AND FOUNDATIONS, STRUCTURES, FENCES AND OTHER OBSTRUCTIONS THAT LIE WHOLLY OR PARTIALLY WITHIN THE PROJECT LIMITS.
  - THE CONTRACTOR SHALL REMOVE AND REPLACE ALL EXISTING UNCOMPACTED OR POORLY COMPACTED FILL SOILS WITHIN THE STRUCTURAL PRISM AT THE DIRECTION OF THE ENGINEER.
  - THE CONTRACTOR SHALL EXCAVATE AND GRADE TO THE ALIGNMENT, GRADE AND CROSS-SECTIONS SHOWN IN THE PLANS OR ESTABLISHED BY THE ENGINEER.
  - MAXIMUM DENSITY AND OPTIMUM MOISTURE FOR GRANULAR MATERIALS WILL BE DETERMINED USING ASTM D-1557 TEST METHOD.
  - UNSATURABLE MATERIAL 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.
- BASE COURSES
  - GRAVEL BASES AND BALLAST SHALL NOT HAVE THE PERCENT PASSING THE U.S. NO. 200 SIEVE EXCEED 5%.
  - BALLAST, GRAVEL BASE AND CRUSHED SURFACING SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DRY DENSITY.
  - OWNER SHALL BE RESPONSIBLE FOR ALL COMPACTION TESTING. ALL TESTING SHALL BE THROUGH ENG. REV. ACCOUNT AND PAID FOR BY OWNER.
- PAVEMENTS
  - SOIL RESIDUAL HERBICIDE SHALL BE PLACED WITHIN 24 HOURS OF PAVING.
  - A TACK COAT OF ASPHALT SHALL BE APPLIED BETWEEN ALL COURSES OF ASPHALT.
  - ALL PAVEMENT REPAIR SHALL BE SAW-CUT BEFORE REMOVAL. AR-400W SHALL BE APPLIED TO ALL EDGES OF EXISTING PAVEMENT.
  - WHERE NEWLY CONSTRUCTED PAVING MEETS EXISTING PAVING, THE APPLICANT SHALL OVERLAY AND FEATHER NEW PAVEMENT TO PROVIDE A SMOOTH TRANSITION FROM EXISTING TO PROPOSED PAVING. APPLICATION OF A THIN PAINT COAT OF EMULSIFIED ASPHALT SHALL BE APPLIED TO INSURE PROPER BONDING.
  - ALL PAVEMENT MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF THE MUTCD.

STORM DRAINAGE

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

"MAIN LINE" CATCH BASINS	TYPE 1, 1L OR 2, WSDOT STD. DETAILS B-1, B-1A OR B-1E
--------------------------	---
- ALL PIPE AND APPURTENANCES SHALL BE LAID ON A PROPERLY PREPARED FOUNDATION IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS SECTION 7-08.3(1). THIS SHALL INCLUDE LEVELING AND COMPACTING THE TRENCH BOTTOM, THE TOP OF THE FOUNDATION MATERIAL AND ANY REQUIRED PIPE BEDDING TO A UNIFORM GRADE, SO THAT THE ENTIRE PIPE IS SUPPORTED BY A UNIFORMLY DENSE UNYIELDING BASE. DRAINAGE MATERIALS SHALL CONFORM TO WSDOT STANDARD SPECIFICATIONS SECTION 9-05.
- STORM SEWER PIPE HAVING DIAMETERS GREATER THAN 8" SHALL BE CORRUGATED POLYETHYLENE PIPE (CPEP) UNLESS OTHERWISE SPECIFIED, AND SHALL CONFORM TO WSDOT STANDARD SPECIFICATIONS, SECTION 9-05.20. STORM SEWER PIPE HAVING DIAMETERS 8" AND SMALLER SHALL BE POLYVINYL CHLORIDE (PVC) PIPE AND SHALL CONFORM TO WSDOT STANDARD SPECIFICATIONS, SECTION 9-05.12.
- ALL CATCH BASIN GRATES SHALL INCLUDE THE STAMPING "OUTFALL TO STREAM, DUMP NO POLLUTANTS".
- UNLESS OTHERWISE SPECIFIED, CAST IRON PRODUCTS SHALL CONFORM TO ASTM DESIGNATION "A 48 CLASS 30" AND DUCTILE IRON PRODUCTS TO ASTM DESIGNATION "A 536 GRADE 80-55-06".
- ALL DRAINAGE STRUCTURES, SUCH AS CATCH BASINS AND MANHOLES, NOT LOCATED WITHIN A TRAVELED ROADWAY OR SIDEWALK, SHALL HAVE SOLID LOCKING LIDS. ALL DRAINAGE STRUCTURES ASSOCIATED WITH A PERMANENT RETENTION/DETENTION FACILITY SHALL HAVE SOLID LOCKING LIDS.
- ALL DRAINAGE SERVICE STUBS SHALL BE MARKED FOR LOCATION WITH A PRESSURE TREATED 2" X 4" TIMBER, PAINTED WHITE OR A WHITE 2" DIA. PVC PIPE. BOTH TYPES OF LOCATION MARKER SHALL BE CONNECTED TO THE SERVICE STUB BY A #12 COPPER WIRE.
- ALL STORM STUB INVERT ELEVATIONS SHALL BE CONSTRUCTED TO FACILITATE POSITIVE FLOW TO CATCH BASIN.

SANITARY SEWER

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

PIPE BEDDING TRENCH BACKFILL SSWH RING & COVER, TYPE 2 SS CLEANOUTS SIDE SEWERS	CITY OF FERNDALE STANDARD DETAIL (COFSD) SS-1 COFSD SS-15 & SS-1 & WSDOT STD. SPEC. SEC. 9-03.12 COFSD SS-9 (BOLT DOWN/WATERTIGHT) COFSD SS-5 COFSD SS-6
---	--
- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH MOST RECENT EDITION OF A.P.W.A. STANDARD SPECIFICATIONS AND SHALL BE SUBJECT TO APPROVAL BY THE CITY OF FERNDALE.
- ALL WORK MUST BE INSPECTED TO THE SATISFACTION OF THE CITY OF FERNDALE. 24 HOUR NOTICE MUST BE GIVEN PRIOR TO STARTING WORK. TESTING OF THE SEWER SYSTEM AND ALL CONNECTIONS TO EXISTING MAINS SHALL BE DONE IN THE PRESENCE AND UNDER THE SUPERVISION OF A CITY OF FERNDALE REPRESENTATIVE.
- SANITARY SEWER PIPE BEDDING SHALL BE PEA GRAVEL PER COFSD SS-1. ALL TRENCHES SHALL BE BACKFILLED WITH CLASS B BANK RUN GRAVEL OR SUITABLE NATURAL MATERIAL AS DIRECTED BY THE ENGINEER, AND COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
- ALL MANHOLES SHALL BE INSTALLED PER CITY OF FERNDALE SS-2, SS-3 OR SS-4, AND SHALL BE BE PRE-CHANNELLED. MANHOLE CONES ARE TO BE OFFSET SUCH THAT LADDER RUNGS ARE PARALLEL TO THE FLOW.
- ALL SIDE SEWERS SHALL BE INSTALLED PER CITY OF FERNDALE STANDARD DETAILS SS-6, SS-8 OR SS-13, EXCEPT THAT SINGLE SIDE SEWERS SHALL HAVE A MINIMUM DIAMETER OF 6".
- CONTRACTOR SHALL EXTEND SEWER STUBS TO THE PROPOSED BUILDING FOUNDATION.
- EACH SIDE SEWER STUB SHALL BE CAPPED WITH A WATERTIGHT PLUG. EACH STUB SHALL BE MARKED FOR LOCATION PER COFSD SS-14, WITH A 2" DIA. PVC PIPE WITH THE TOP 18" PAINTED WHITE AND STENCILED WITH THE WORD "SEWER". THE LOCATION MARKER SHALL BE CONNECTED TO THE SERVICE STUB BY A #12 COPPER WIRE.

WATER

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

PIPE BEDDING TRENCH BACKFILL THRUST BLOCKING WATER SERVICE FIRE HYDRANT ASSEMBLY THRUST BLOCKING	SEE DETAIL, SHEET 9 COFSD W-11 & WSDOT STD. SPEC. SEC. 9-03.12 COFSD W-2, W-3 & W-4 COFSD W-5 COFSD W-1 COFSD W-2, W-3 & W-4
---	---
- CONNECTIONS TO EXISTING WATER MAINS - PER WSDOT STD SPEC. 7-09.3(19), THE CONTRACTOR MUST NOTIFY THE CITY OF FERNDALE PUBLIC WORKS DIRECTOR OF A PROPOSED CONNECTION AT LEAST FOUR WORKING DAYS IN ADVANCE. ALL CONNECTIONS SHALL BE DONE BY THE CONTRACTOR. CONNECTION TO EXISTING CITY WATER SYSTEM SHALL BE PAID IN ADVANCE BY A DEPOSIT.
- ALL HYDROSTATIC TESTING AND DISINFECTION OF WATER MAINS SHALL CONFORM TO SECTIONS 7-09.3(23) AND AND 7-09.3(24) AND OF THE WSDOT STD SPECIFICATIONS FOR ROAD, BRIDGE OR MUNICIPAL CONSTRUCTION - CURRENT EDITION. HYDROSTATIC TEST PRESSURE FOR WATER MAIN ACCEPTANCE SHALL BE 225 PSI AND SHALL BE DONE ACCORDING TO CITY OF FERNDALE REQUIREMENTS. ALL DISINFECTION AND BACTERIOLOGICAL TESTS SHALL BE CONDUCTED BY THE CITY OF FERNDALE LABORATORY. THE PIPE WILL NOT PASS TESTING UNLESS A ZERO BACTERIAL COUNT IS MEASURED ON TWO CONSECUTIVE TESTS, CONDUCTED 24 HOURS APART.
- BACKFILL SHALL BE GRAVEL BASE, CLASS B, IN ALL ROADWAYS AND PARKING AREAS, COMPACTED TO MINIMUM 95% OPTIMUM DENSITY. IN UNIMPROVED AREAS, MINIMUM COMPACTION SHALL BE 90% OF OPTIMUM DENSITY.
- ALL PIPE SHALL HAVE A MINIMUM COVER OF 42".
- WATER SERVICE TAP INSTALLATIONS SHALL MEET THE REQUIREMENTS OF THE CITY OF FERNDALE DEVELOPMENT STANDARDS. ALL WATER SERVICES SHALL BE MARKED FOR LOCATION WITH A METER BOX PER COFSD W-5.

APPROVED  
APR 16 2007  
BY RC  
CITY OF FERNDALE

AS-BUILT NOTE:  
ONLY INFORMATION NOTED AS  
"AB" HAS BEEN FIELD SURVEYED  
OR MEASURED DURING CONSTRUCTION.

AS-BUILT  
DRAWING

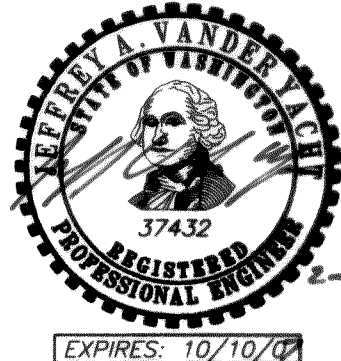
FIELD BOOKS	TBM. NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	SCALE	REV	DATE	DESCRIPTION	BY	No.	DESCRIPTION	DATE
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				DWG # C.N.D								5	AS-BUILT	2.28.07
SURVEY REFERENCE		VERTICAL DATUM		PLAN CHECK						REVISIONS			ISSUE	

CALL BEFORE YOU DIG



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BELLINGHAM, WA 98226

PACIFIC INDUSTRIAL PARK  
SPECIFIC BINDING SITE PLAN No. 7, LOT 17  
1354 PACIFIC PLACE  
GENERAL CONSTRUCTION NOTES  
JOB #:2005112  
SHEET 12 OF 12



EXPIRES: 10/10/09

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1.24.08  
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