PACIFIC SURVEY & INC ENGINEERING

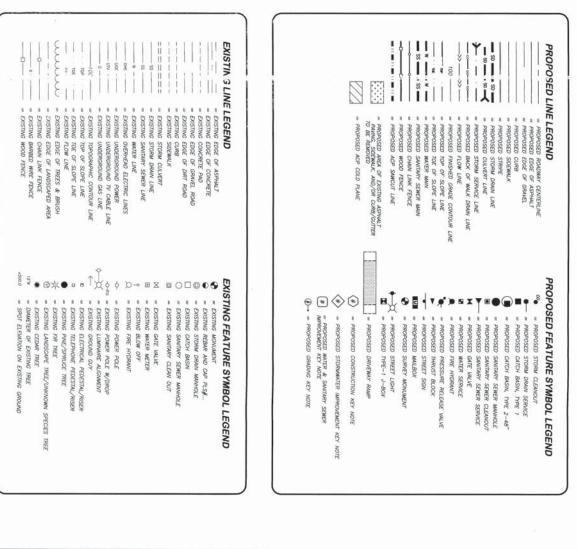
www.psesurvey.com EMAIL: pse@psesurvey.com WA 98225 PHONE: 671.7387 FAX: 671.4685 CORNWALL, BELLINGHAM,

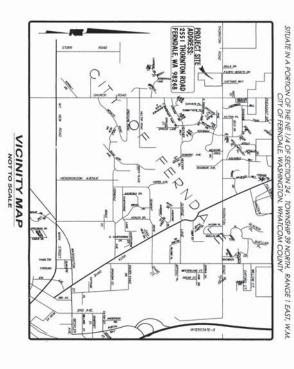


PLANNED UNIT D EVELOPMENT

CITY OF FERNDALE WASHINGTION

ROADWAY AND UTILITY IMPROVEMENT PL ANS





ABBREVIATIONS KEY AND SHEEL WASHOLE
SOUNDAY SEMBLE WASHOLE
SANIARY SEMBLE WASHOLE TOP FACE OF CURB
TOP FACE OF CURB
TOP OF WALL
TOP OF PIPE
TYPICAL
UNDERGROUND POWER
WASHINGTON STATE DE GON OURVE RETURN
JOTTOM OF PIPE
TO OF FERNDALE
TO OF FERNDALE O GRADE @ CENTERLINE TED POLYETHYLENE PIPE CHLORIDE PIPE

1-800-424-5555

AS BUILT SURVEYOR'S CERTIFICATION

certify that the locations, elevations, depths, and as built
comments reflecting materials actually used during
construction accurately reflect existing field conditions as
determined by me or under my direct supervision on this /2-21-09

PROJECT ENGINEER/SURVEYOR:
PACIFIC SURVEYING AND ENGINEERING, INC.
1812 CORNWALL AVE.
BELLINGHAM, WA 98225
(360) 671-7387
CONTACTS:
JEFF VANDER YACHT, PE
ADAM MORROW, PLS CITY OF FERNDALE PUBLIC WORKS DEPARTMENT 2005, MAIN STREET PO BOX 936 FERNDALE, WA 98248 (360) 384-4006 OWNER: WHATCOM-SKAGIT HOUSING \$373 GUIDE MERIDIAN, BLDG. E, #105 BELLINGHAM, WA 98226 (360)398-0223 PROJECT CONTACTS

THORNTON WOODS PLANNED UNIT DEVELOPMENT ROADWAY AND UTILITY IMPROVEMENT PLANS COVER SHEET

AS-BUILT DRAWING

BOW C

CITY RETAEM

CITY PERMIT

AS-BULLT

FINAL AS-BU

WHATCOM-SKAGIT HOUSING 5373 GUIDE MERIDIAN, BUILDING E, #105 BELLINGHAM, WA 98226



22





SITY OF COMPANY F.E.

No. 2002089

SHEET LIST TABLE

- 01 COVER SHEET
- 02 EXISTING CONDITION MAP & DEMOLITION PLAN
- 03 OVERALL SITE & UTILITIES PLAN
- ROADWAY & DRAINAGE IMPROVEMENT PLAN & PROFILE 04 TEMPORARY EROSION & SEDIMENTATION CONTROL PLAN
- 05 PACIFIC HEIGHTS DR 11+00 to 16+00
- 07 PACIFIC HEIGHTS DR 20+00 to 23+00 06 PACIFIC HEIGHTS DR 16+00 to 20+00
- 08 CAPTAIN'S WAY 31+00 to 36+00

09 CAPTAIN'S WAY 36+00 to 41+00

10 PACIFIC HEIGHTS DR 11+00 to 16+00

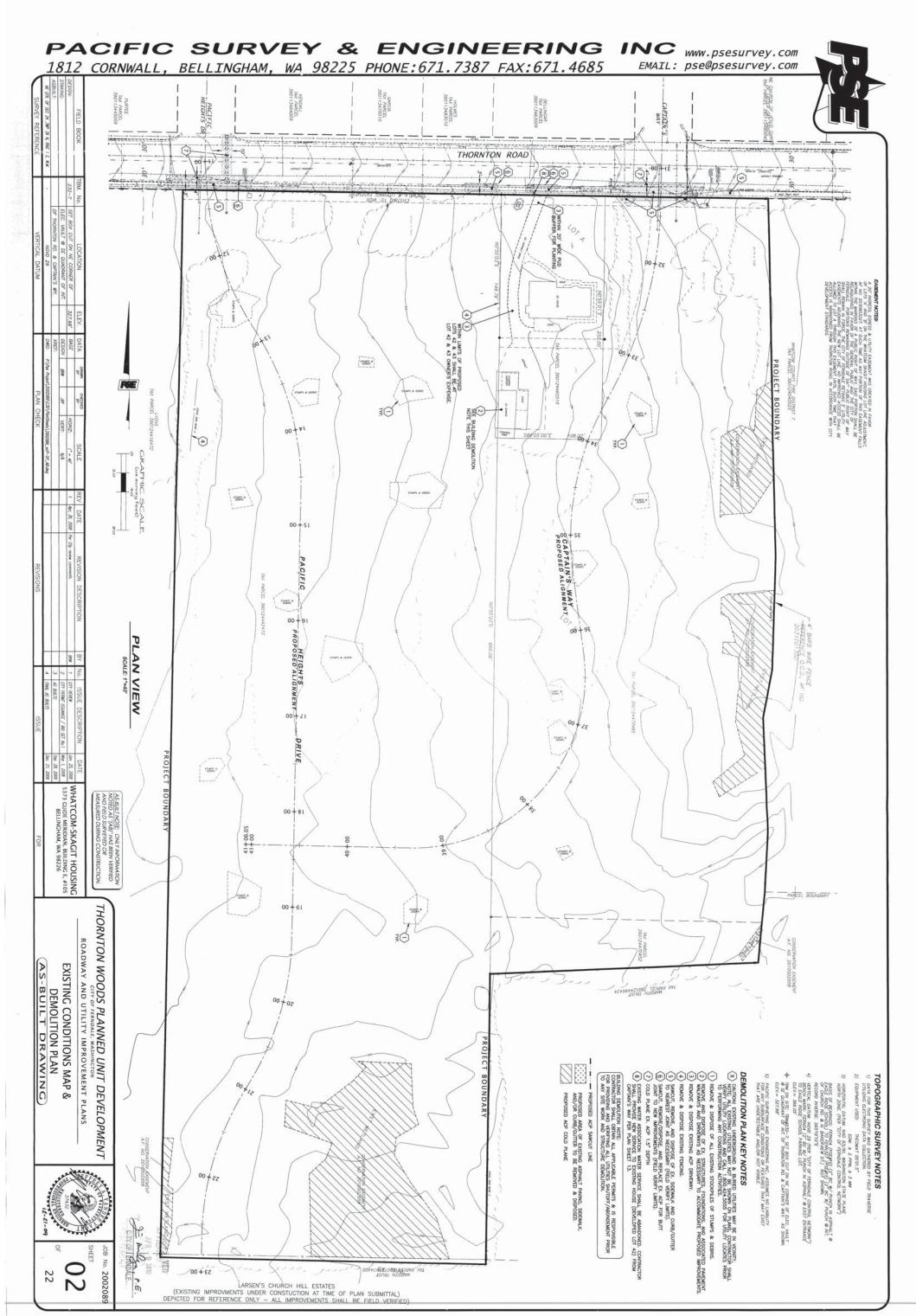
WATER & SANITARY SEWER IMPROVMENT PLAN & PROFILE

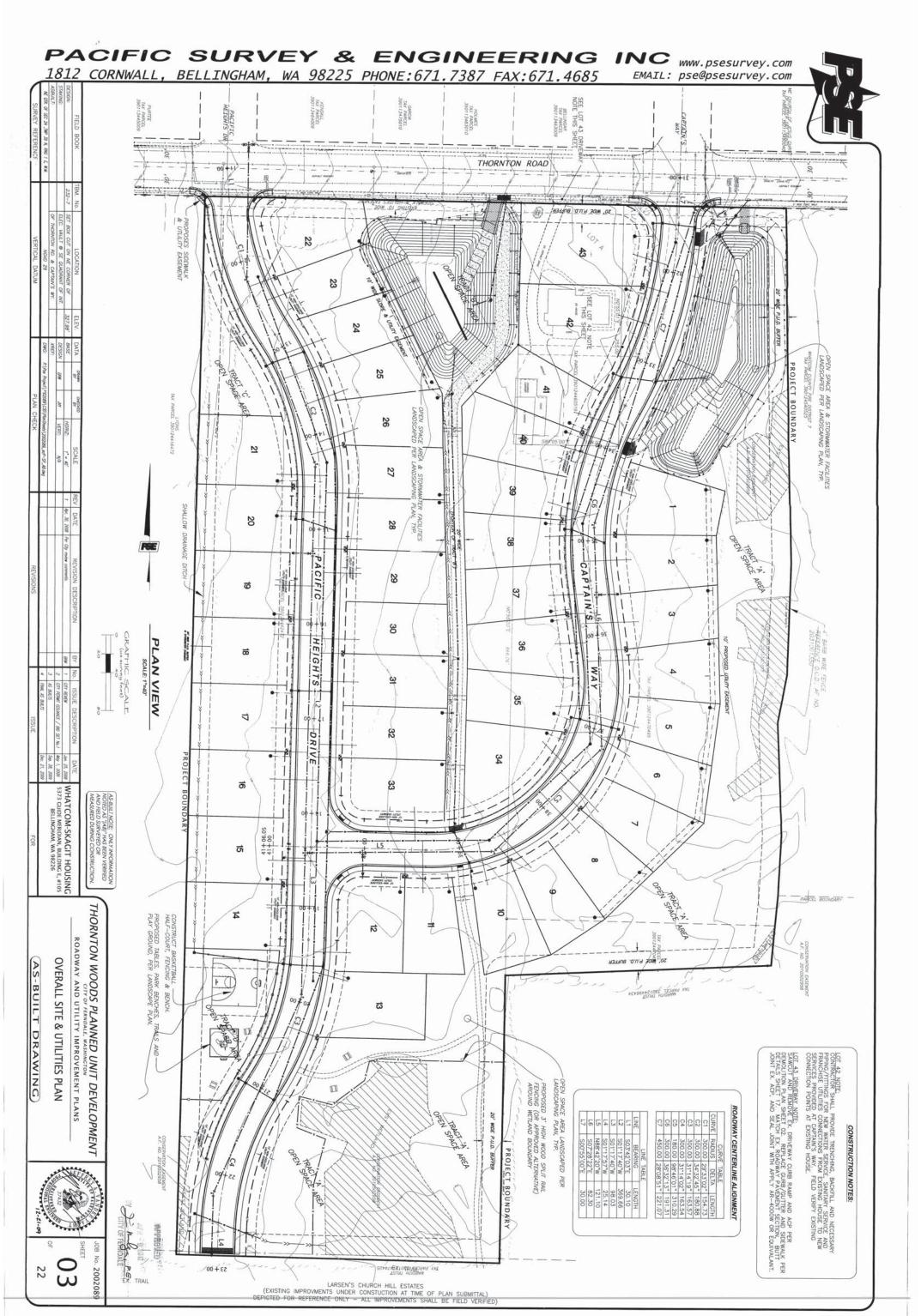
- 12 PACIFIC HEIGHTS DR 20+00 to 23+00 11 PACIFIC HEIGHTS DR 16+00 to 20+00
- 13 CAPTAIN'S WAY 31+00 to 36+00
- 14 CAPTAIN'S WAY 36+00 to 41+00
- STORMWATER MANAGEMENT FACILITY PLAN & DETAILS

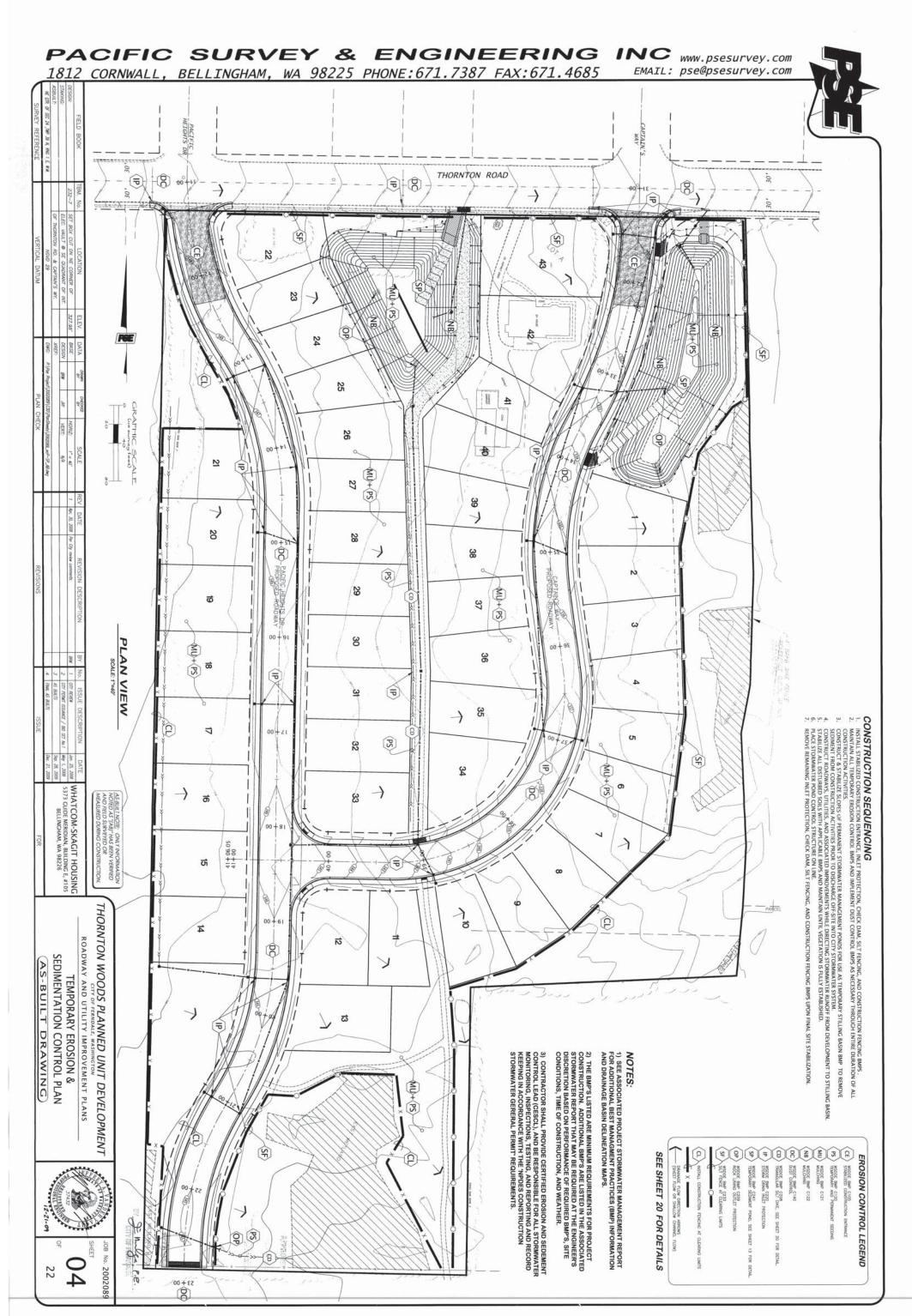
- 15 POND No. 1

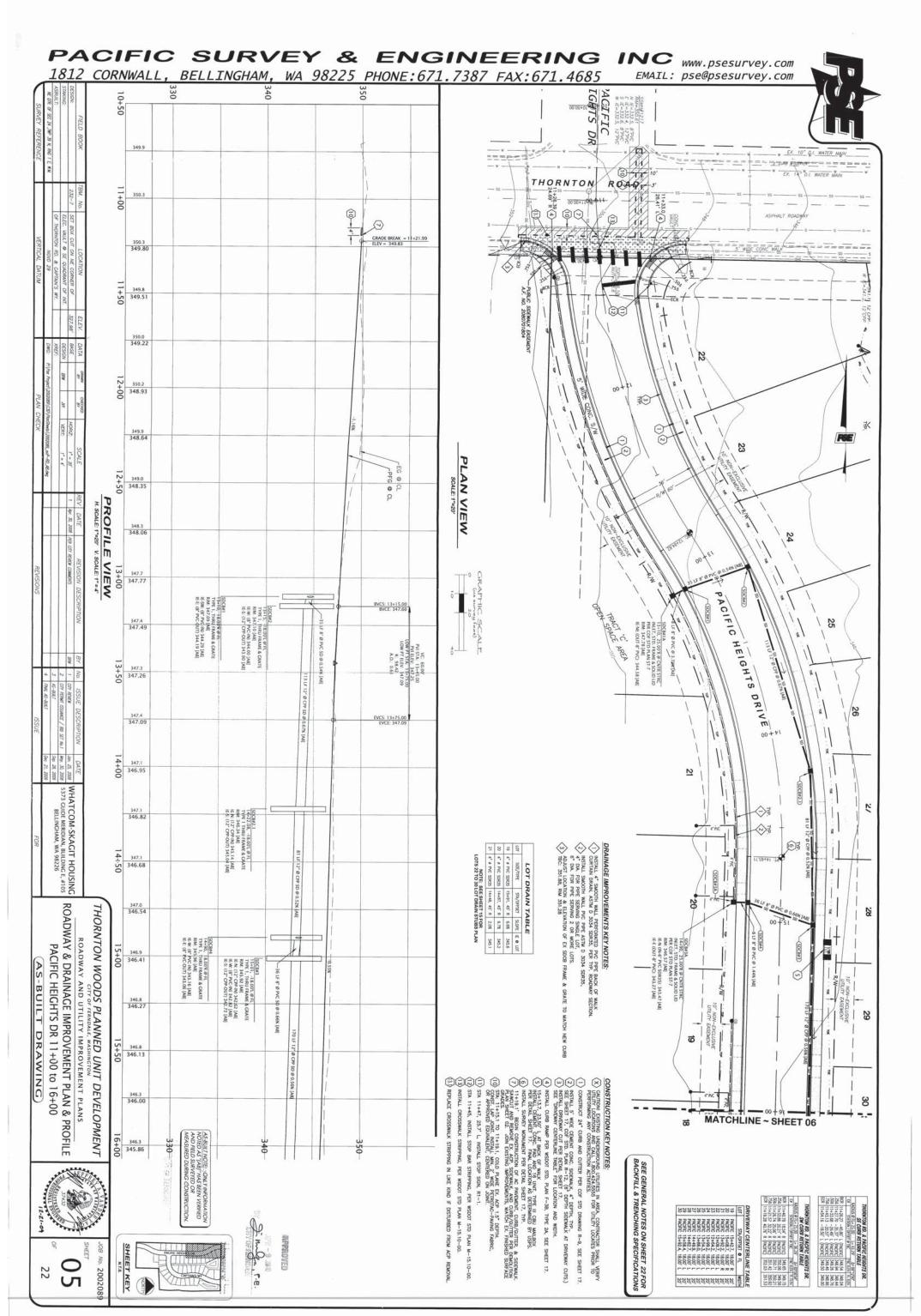
- 16 POND No. 2
- 17 ROADWAY & SURFACE IMPROVEMENT DETAILS
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- 20 EROSION CONTROL DETAILS & NOTES 21 TYPICAL SECTIONS
- 22 GENERAL CONSTRUCTION NOTES

APPROVED









PACIFIC SURVEY & ENGINEERING INC www.psesurvey.com 1812 CORNWALL, BELLINGHAM, WA 98225 PHONE: 671.7387 FAX: 671.4685 EMAIL: pse@psesurvey.com WW 3 I ONE N 65 AND N 235 MATCHLINE ~ SHEET 05 GRAPHIC SCALE 8 346.4 345.73 VCS: 16+35.00 BVCE: 345.67 346.3 345.61 $\underline{\omega}$ SOCIAS 16471, -18.00'L Ø FL TYPE 1, THRU FRAME & GRATE RIM: 345.07 (A8) IE-W: (12" CPP-0017) 341.77 (A8) IE-W: (8" PVC-IN) 342.17 (A8) IE-W: (8" PVC-IN) 342.17 (A8) SOC845, 1671, 25.009 @ CHIR STRC WLET, STD. HAME & SQLD LID PR COF STD FMAN 5179 NIM: 545,76 (A) IES (NIM S PM C 30435); 343 56 (A8) IES (NIM S PM C); 343 46 (A8) IEE (OUT-8 PMC); 343 46 (A8) ISOCBUS 16471, 18.00'R & R TYPE 1, THRU FRAME & GRATE RIM: 345.11 [AB] IE-W: (8" PVC-UT) 343.11 [AB] IE-E (8" PVC-OUT) 342.31 [AB] 346.1 345.57 345.64 345.64 7 0.40% [A8] EVCS: 17+15.00 EVCE: 345.72 32 PACIFIC HEIGHTS DRIVE 345.79 17+50 345.96 ಕ PLAN VIEW

SCALE: 1"=20" 346.6 33 MATCHLINE SHEET 09 18+00 18+50

PROFILE VIEW

H. SCALE: 1"=20" V. SCALE: 1"=4" BVCS: 18+05.00 BVCE: 346.33 SDCB+ TYPE 2 RIM: B IE-N: IE-S: 346.3 346.41 1919, -17:00*L@CNTR STCR PPE2-48* STD, FRAME & SQUD I N. 345:93 [AB] N. (12" CPP-IN) 340:83 [AB] S. (12" CPP-IN) 339:53 [AB] E. (12" CPP-OUT) 339:23 [AB] 2 2 3 (F) PACIFIC HTS 18+35.37= CAPTAIN'S WAY 40+56.04 40+00 15 CAPTAIN'S CAPTAIN'S PACIFIC L 40+56.05 8+35.37 WAY 346.0 346.37 BRW EVCS: 18+65.00 EVCE: 346.27 346.6 346.19 347.0 345.98 4 2008 E CO 346.4 345.76 WHATCOM-SKAGIT HOUSING 5373 GUIDE MERIDIAN, BUILDING E, #105 BELLINGHAM, WA 98226 N 346.0 345.55 SDČIRBAN 40:482.20, 1744.21" & CHTR STRC INLET, STD. FRAME & SOLID LID PER COS STD PLAN ST?? SUM: 345.594.08 IEW (IN-8" PVC): 342.89 [A8] IE COUT-8" PVC): 342.89 [A8] (SOCBB)

(SOCBB)

(SOCBB)

(SOCBB)

(SOCBB)

(SOCBB)

(SOCBB)

(AB)

(AB) -1 SOC889 19462, 18.007 @ FL 179E L, THRU FRAME & GRATE RIM: 345.03 [AB] IE-W. (8" PVC-IN) 342.93 [AB] IE-E-(8" EVC OUT) 342.93 [AB] 61.55, 119.19'R @ CNTR STRC PE 1,5TD. FRAME & GRATE 6:347.43 [AB] 6:0UT-8" PVC): 345.73 [AB] 345.4 345.34 ROADWAY & DRAINAGE IMPROVEMENT PLAN & PROFILE THORNTON WOODS MATCHLINE ~ SHEET 07 20+ 00 345.12 ದ PACIFIC REBISTS DR. B. CAPTAINS WY.

RE CIRC RETURN THATE:

1000.00 = 11, 193.00 = 12.95 = 12. PACIFIC HEIGHTS DR 16+00 to 20+00 PACIFIC RES PR & CAPTANZ PY.

35 1089 EFFINANT JAMES PY.

26 1089 EFFINANT JAMES PY. AS-BU S PLANNED UNIT DEVELOPMENT
OF FERNDALE, WASHINGTON
UTILITY IMPROVEMENT PLANS ILT DRAWING DRIVEWAY

LOT ST.

12 PACIFIC
13 PACIFIC
14 PACIFIC
15 PACIFIC
16 PACIFIC
17 PACIFIC
17 PACIFIC
18 PACIFIC
32 PACIFIC
33 PACIFIC
33 PACIFIC
33 PACIFIC CONSTRUCTION KEY NOTES:

(X) CALTION EDSTAND UNDERGROUND ITILITIES IN ARCH, CONTRACTOR SMALL VERIFY CONCLONATIONS, AND CALL UNDOUGHESS FOR UTILITY LOCATES PRIOR TO PERFORMING ANY CONSTRUCTION ACTIVATES.

(1) CONSTRUCT 24* CURB AND CUTTER PER COT STID DRIVANIC R-9, SEE SHEET 17.

(2) SEE SHEET 17. COF STID. PLAN R-12, (6* DEPTH. TIP., 28. SHEET 17. COF STID. PLAN R-12, (6* DEPTH SIDENMUL AT DRIVENWY CUTS.)

(3) NSTALL DRIVENWY CUTSTANDE TRAIL SHEET OS. SEE THE 24, SEE SHEET 17.

(4) NSTALL CURB RAMP PER WISDOT STID. PLAN F-38, TYPE 24, SEE SHEET 17.

(5) NSTALL SURVEY MONUMENT PER DETAIL SHEET 17, TYP.

(11) STA 40+14, 28.5° L. INSTALL STOP SIGN, R1-1.

(2) STA 40+16, INSTALL STOP BAR STRIPPING, PER WISDOT STID PLAN M-15.10-00. DRAINAGE IMPROVEMENTS KEY NOTES:

(**) INSTALL 4" SMOOTH WILL PERFORMED PAG PIE BACK OF WALK OF THE NOTIFICALL AS SMOOTH WILL PREPARED PAG PIE PAG NOTIFICALL SMOOTH WALL PAG PIE SEN OL SOULE OF SMOOTH SMALL PAG PIE SEN OLE OF SMOOTH SMALL PAGE PIE SEN OLE OF SMOOTH SMALL PAGE PIE SEN OLE PAGE PIE PA C 19+33.0, C 19+79.5, C 19+28.7, C 18+22.7, C 17+88.7, C 17+18.7, C 16+48.7, C 17+02.4, C 17+57.4, SEE GENERAL NOTES ON SHEET 22 FOR BACKFILL & TRENCHING SPECIFICATIONS UT SIZ/NEE SIA/USTSS SLORE E 4

13 4" 6 PG SIGNS 194-68, 4-5" L 2/0" J

14 4" 6 PG SIGNS 194-68, 4-5" L 2/0" J

15 4" 6 PG SIGNS 194-1, 45" R 2/0" J

16 4" 6 PG SIGNS 194-1, 45" R 2/0" J

17 4" 6 PG SIGNS 194-1, 45" R 2/0" J

18 4" 6 PG SIGNS 194-1, 45" R 2/0" J

19 4" 6 PG SIGNS 194-1, 45" R 2/0" J

10 4" 6 PG SIGNS 194-1, 45" R 2/0" J

11 4" 6 PG SIGNS 194-1, 45" R 2/0" J

12 4" 6 PG SIGNS 194-1, 45" R 2/0" J

13 4" 6 PG SIGNS 194-1, 45" R 2/0" J

14 4" 6 PG SIGNS 194-1, 45" R 2/0" J

15 4" 6 PG SIGNS 194-1, 45" R 2/0" J

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10 4" 6 PG SIGNS 194-1, 45" R 2/0" J

10 4" 6 PG SIGNS 194-1, 45" R 2/0" J

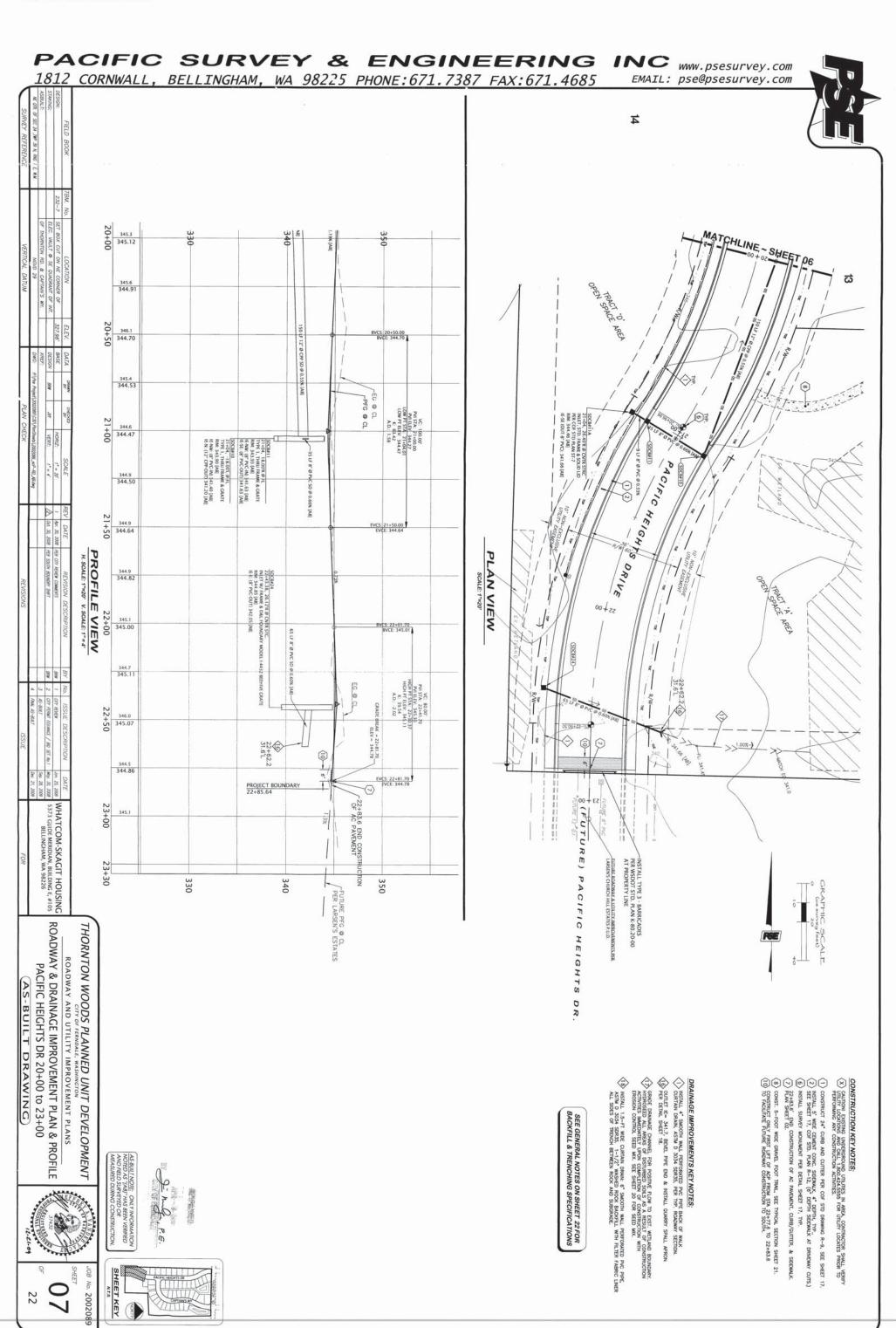
10 4" 6 PG SIGNS 194-1, 45" R 2/0" J

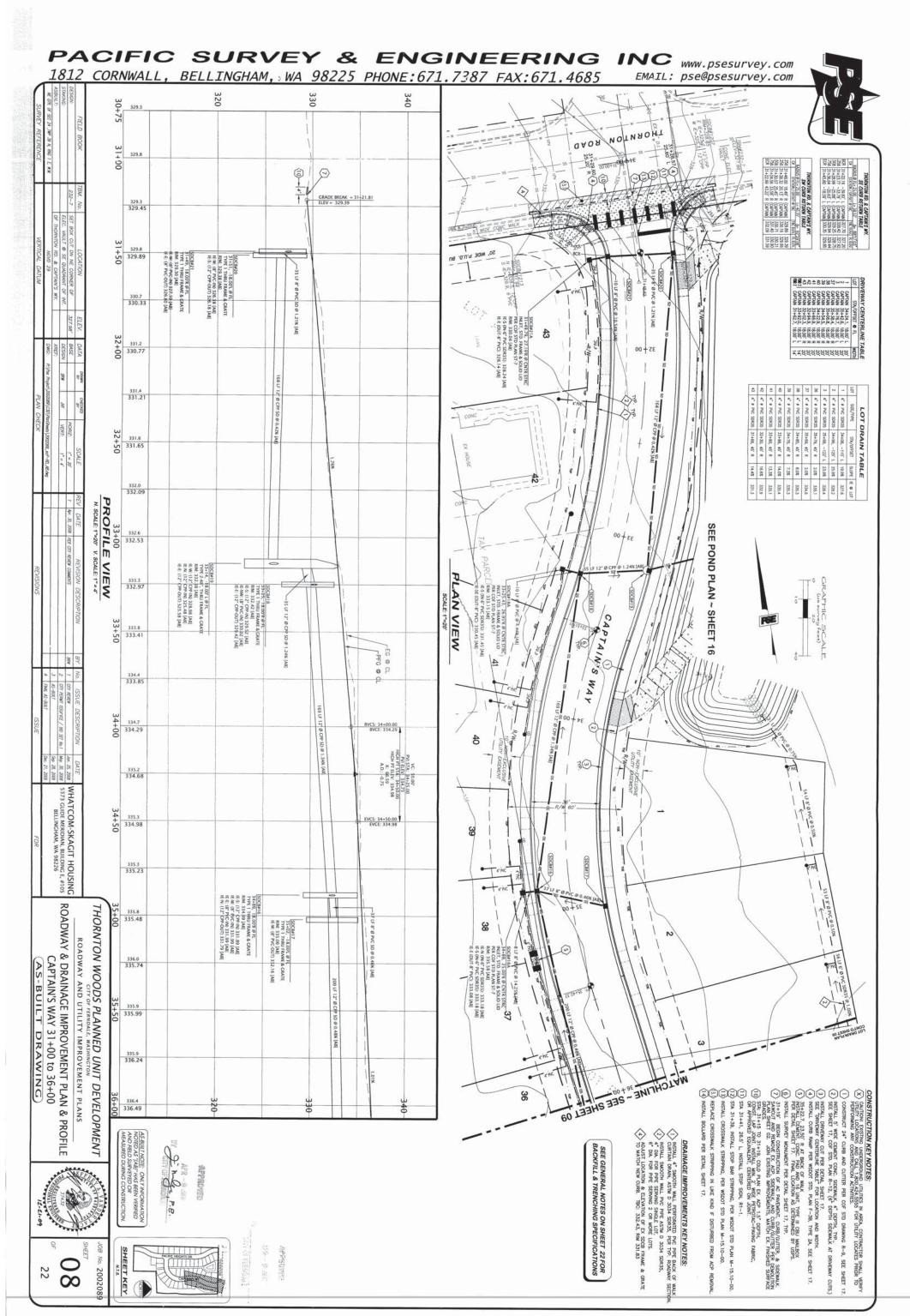
10 4" 6 PG SIGNS 194-1, 45" R 2/0" J

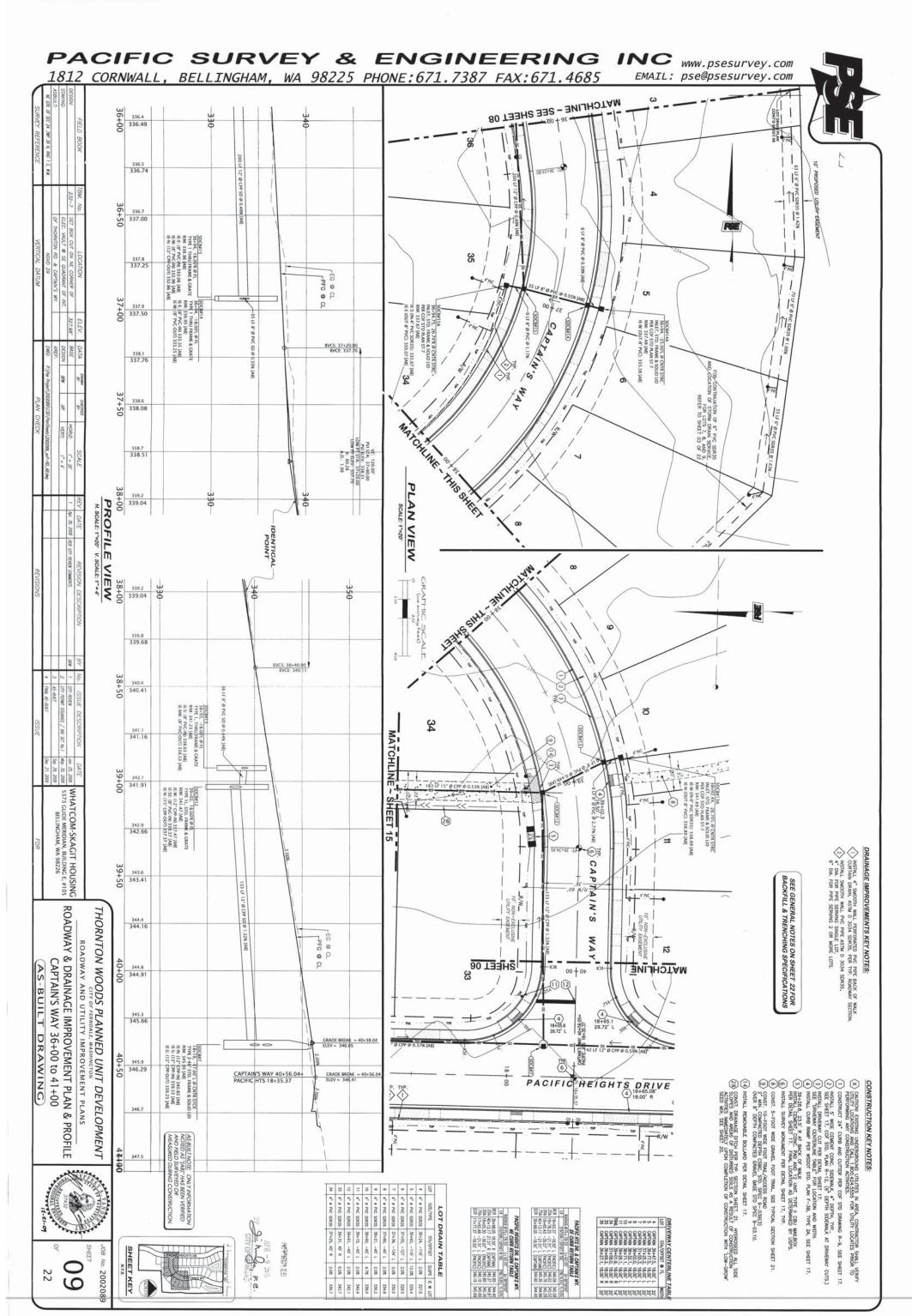
10 4" 6 PG SIGNS 194-1, 45" R 2/0" J

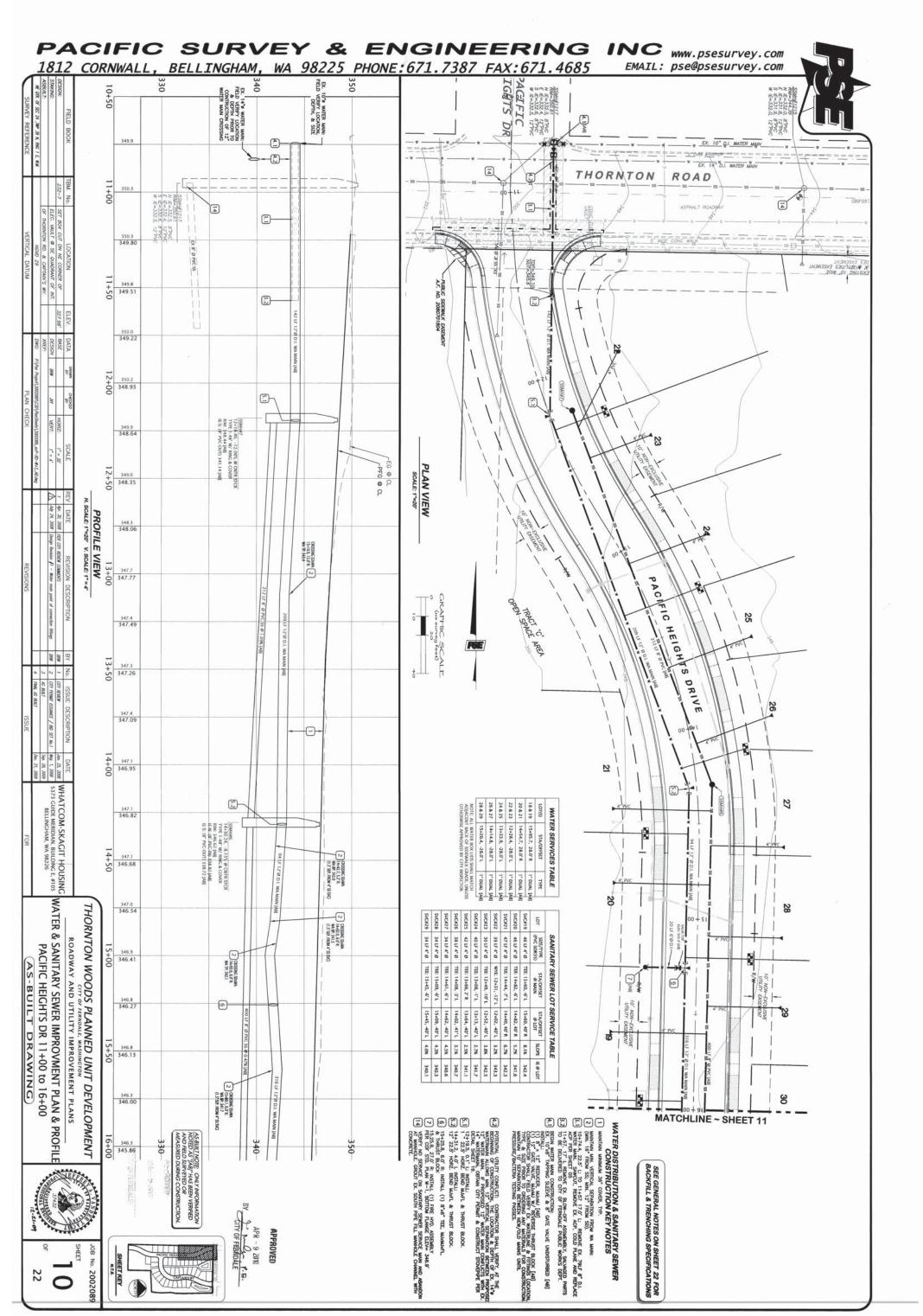
10 4" 6 PG SIGNS 194-1, 45" R 2/0" J

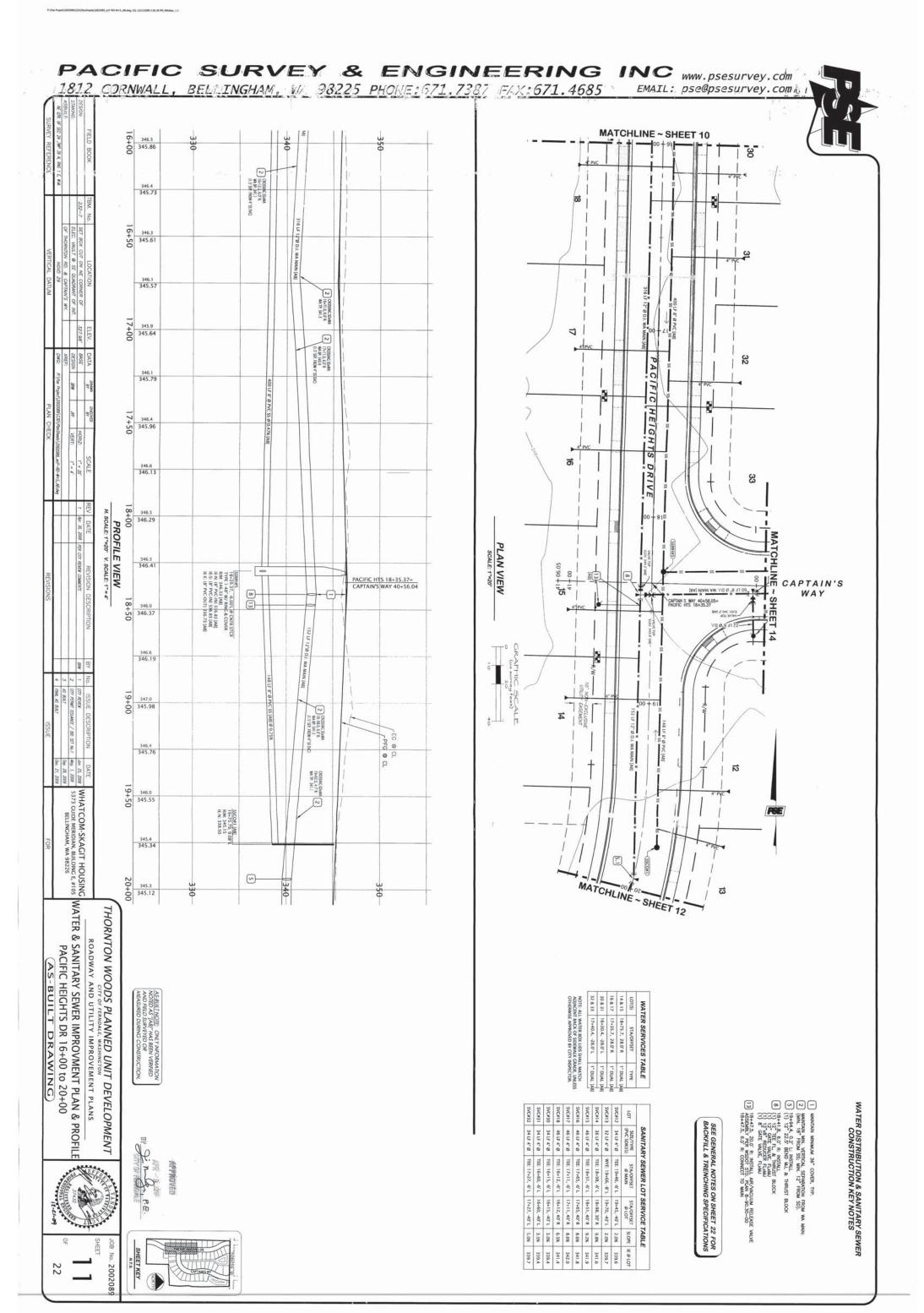
10 4" 6 PG SIGNS 194-1, 45" R 2/0" OTHERS. NOTE: SEE SHEET 15 FOR LOTS 31 & 32 LOT DRAIN STUBS PLAN \$1.09E | E 0 1.07 | 2.00K | 341.1 | 4.80K | 344.1 | 2.00K | 345.0 | 2.00K | 345.0 | 345.0 | 345.0 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 345.7 | 34 SHEET KEY 90 22 2002089

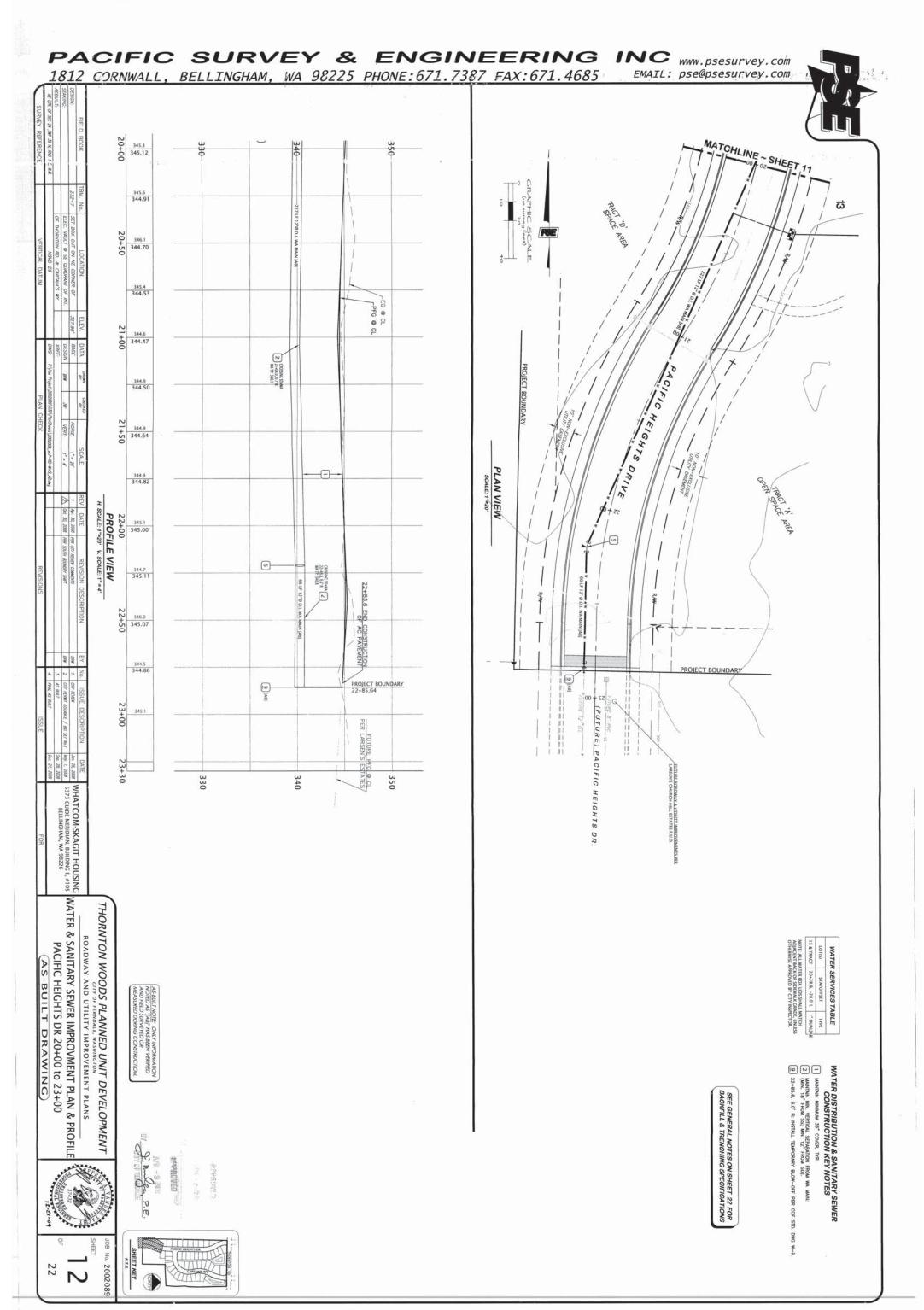


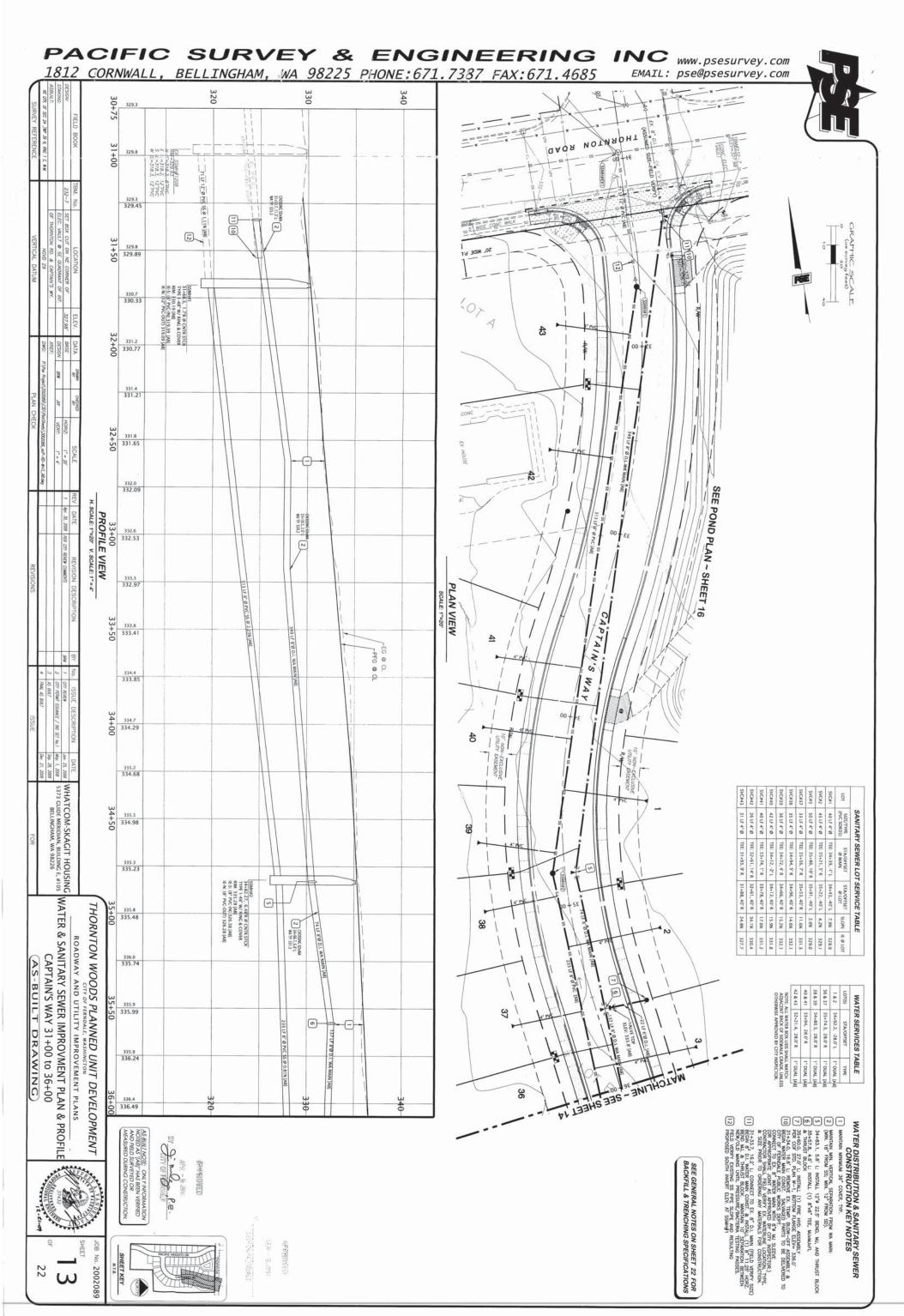


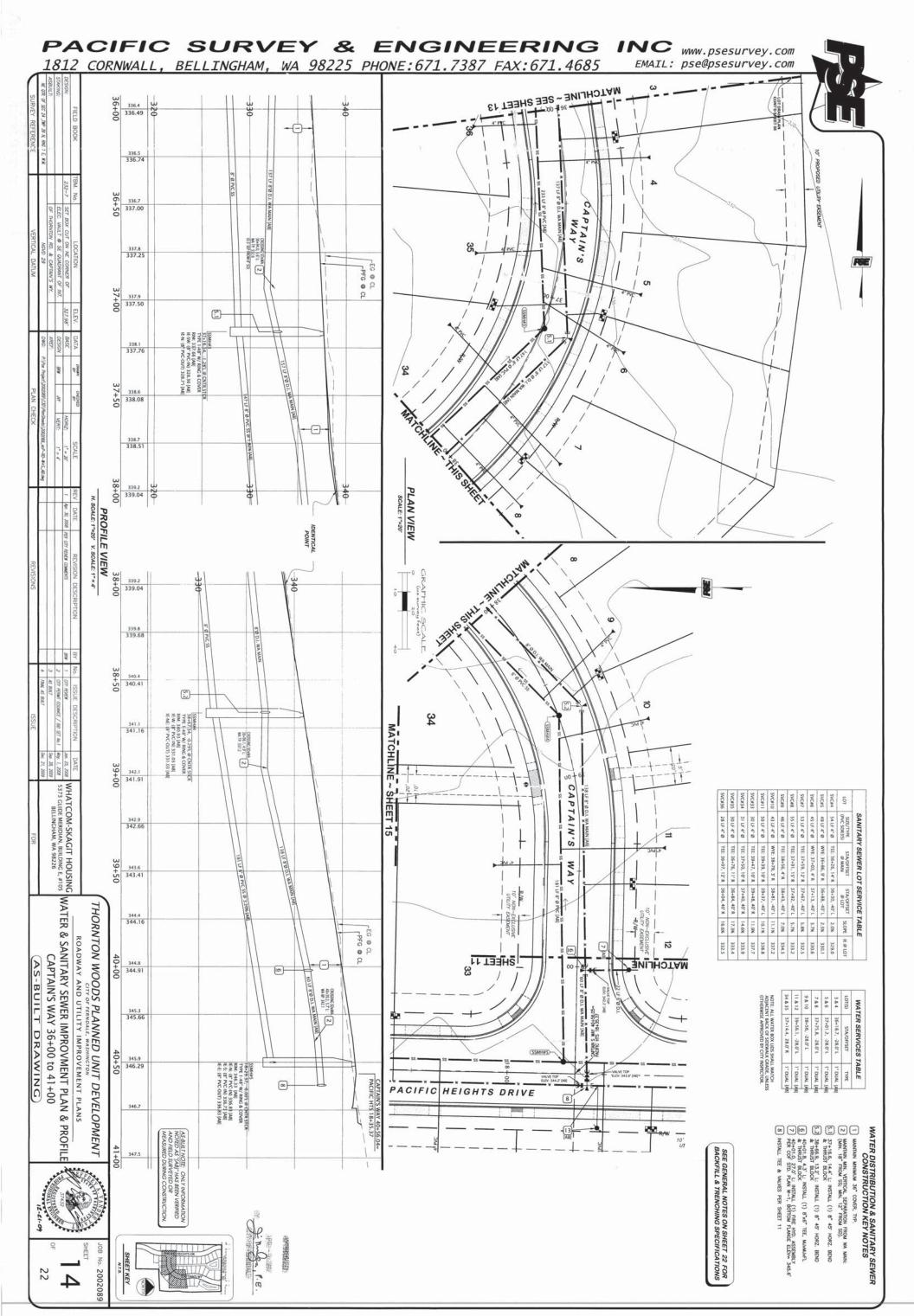


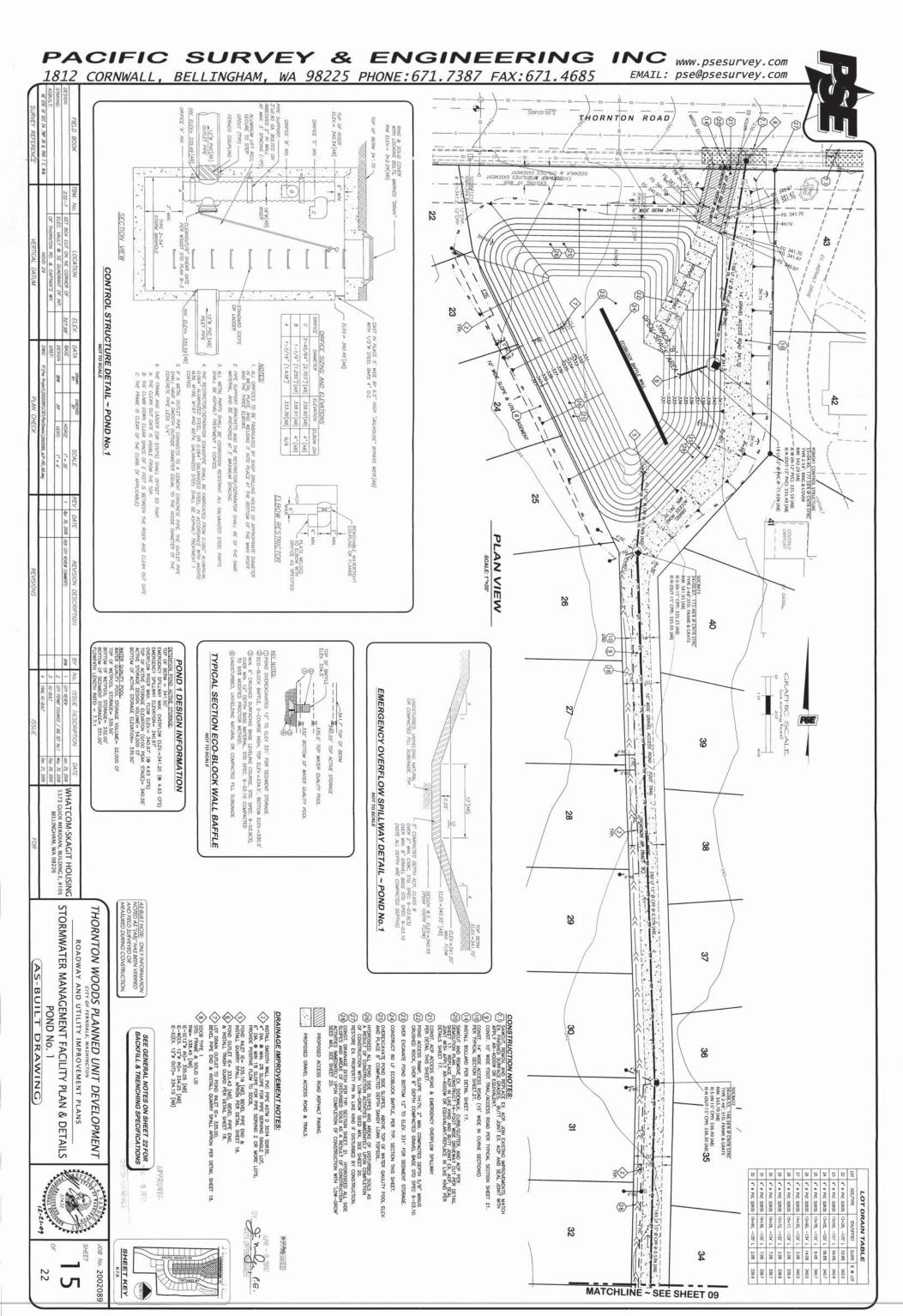












PACIFIC SURVEY & INC www.psesurvey.com **ENGINEERING** CORNWALL, BELLINGHAM, WA 98225 PHONE: 671.7387 FAX: 671.4685 EMAIL: pse@psesurvey.com CAPTAIN'S WAY LOT 1 PLAN VIEW **-**√23 THORNTON MDE P.U.D. BUFFER PROJECT BOUNDAR ROAD WHATCOM COUNTY FIRE DISTRIST 7 30 30 (4) INSTALL BOLLARD PER DETAIL SHEET 17.
(2) CONST. EMERGENCY OVERPLOW SPILLWAY PER DETAIL THIS SHEET.
(2) POND ACCESS RAMP, MAX. SLOPE 11:7V, 2° MIN. COMPACTED DEPTH 5/8° MINUS
(22) POND ACCESS RAMP, MAX. SLOPE 11:7V, 2° MIN. COMPACTED DEPTH 5/8° MINUS
(23) OVER EXCHANTE POND BOTTOM 12° TO ELEV. 318.4° FOR SEDMENT STORAGE.
(25) OVEREXCHANTED POND BOTTOM 12° TO ELEV. 318.4° FOR SEDMENT STORAGE.
(25) OVEREXCHANTED POND BOTTOM 12° TO ELEV. 318.4° FOR SEDMENT FOOD.
(26) HYDROSED PLAN DEPTH SHOP LOWER TOP OF MATER QUALITY POOL.
(26) HYDROSED ALL POND SUE SLOPES, AND AREAS OF DISTURBED.
(27) SONDIA TAND REMOVE, EX. SIDEMALLY AND CHIMRICAL SEED MIX.,
(27) SANCIA TAND REMOVE, EX. SIDEMALLY AND CHIMRICAL SEED MIX.,
(27) SANCIA TAND REMOVE, EX. SIDEMALLY AND CHIMRICAL SEED MIX.) POND #2 COMINGOL STRUCTURE (SEE DETAIL THIS SH 14-57,300-44.691 © CHIR STRC 16-51(M-12" POP) 322.89 (All 16-NE(OUT-12" POP); 322.89 (All \$\infty\$ 26 UF 12" # PVC @ 6.72% (All) (2) EX. SDCB#1206
EX. IE-W(12° IN)= 323.4 (FBLD VERIFY)
EX. IE-G(12° OUT)= 321.1 (FBLD VERIFY)
CONST. IE-S(12°¢ PVC IN)= 321.38 (Asi (1) LOT DRAIN OUTLET TO POND INLET IE= 326.48(AB)
BEVEL PIPE END & INSTALL QUARRY SPALL APRON PER DETAIL SHEET POND OUTLET IE= 320.95[AB], BEVEL PIPE END, & INSTALL TRASH GUARD PER DETAIL SHEET 18. POND INLET IE= 321.52 [AB] BEVEL PIPE END & INSTALL QUARRY SPALL APRON PER DETAIL SHEET (13) SDCB#19 (SEE SHEET 08). DRAINAGE IMPROVEMENT NOTES: DETENTION POWD ACTIVE STORAGE:
10P OF REEN = 328.60
10P OF REEN = 328.60
10P OF REINAY ELEVATION = 328.80
10P OF REINAY ELEVATION = 328.87
0KERSLOW RESER MAY. FLOW ELEVA = 328.77
0KONTON OF REINAY ELEVATION (0100 PEW STAGE) = 328.45
10P OF ACTIVE STORAGE ELEVATION = 328.00
10P OF ACTIVE STORAGE ELEVATION = 328.00
10P OF ACTIVE STORAGE ELEVATION = 328.00 CONSTRUCTION NOTES. MATER QUALITY POOL:

MATER QUALITY POOL STORAGE VOLUME= 15,000

TOP OF WETPOOL STORAGE= 323.00'

BOTTOM OF WETPOOL STORAGE= 319.40'

BOTTOM OF SEDMENT STORAGE= 318.40'

FLOMPATH LENGTH PATIO = 5:1 POND 2 DESIGN INFORMATION PROPOSED GRAVEL ACCESS ROAD & TRAILS. SEE GENERAL NOTES ON SHEET 22 FOR BACKFILL & TRENCHING SPECIFICATIONS 898 WHATCOM-SKAGIT HOUSING 5373 GUIDE MERIDIAN, BUILDING E, #105 BELLINGHAM, WA 98226 TOP OF BERM 329.60 RING & SOLID COVER WITH LOCKING BOLTS, I RIM ELEV. = 330.29[AB] SECTION VIEW STORMWATER MANAGEMENT FACILITY PLAN & DETAILS THORNTON WOODS ROADWAY AND UTILITY IMPROVEMENT PLANS CONTROL STRUCTURE DETAIL ~ POND No.2 AS-BUI EMERGENCY OVERFLOW SPILLWAY DETAIL ~ POND No.2 AS-BUIL NOTED AND FIL MEASU OR LADDER MLET PIPE BUILT NOTE: ONLY INFORMATION TED AS "(AB)" HAS BEEN VERIFIED O FIELD SURVEYED OR SURED DURING CONSTRUCTION. OND No. 2 PLANNED UNIT DEVELOPMENT CAST IN PLACE 5.5" WIDE BY 7" HIGH WITH 1/2"# STEEL BARS 4" O.C. ELEV = 328.54 [AB] FILL SUBGRADE, TYP. T DRAWING IRIFICE SIZING AND ELEVATIONS

DIAMETER EL -41/64" [1.641"] [AB] 57/64" [0.891"] 4. THE RESTRICTORY SEPARATOR STANDING SHEET FREECHED FROM C.DOFT ALLAMATUM, A.DOFF ALLAMATOR STANDING SHEET SHEEL, IN ACCORDANCE DIFFEL, IN THE MASHID AUG. M.196, M.197, MAID M274, GALVANIZED STEEL SHALL BE ASPHALT TREATMENT I. S. CORTEC. 3. ALL METAL PARTS SHALL BE CORROSION RESISTANT, ALL GALVANIZED STEEL PARTS SHALL BE ASPHALT TREATMENT 1 COATED. 1. ALL ORDITIES TO BE MERICATED BY SIND DRILLION HOLES OF REPODERATE LIMITERS IN METAL PLATE, AND WILLIAMS IT WITO PLACE AT THE BOTTOM OF THE MAN RISER AND THE RESTRICTON/SESMANDER SHALL BE OF THE SAME AMERICAL AND BE ANCHORED AT 3" MAXIMUM SPACING. 6. THE FRAME AND LADDER (OR STEPS) SHALL OFFSET SO THAT:
4: THE CLEM OUT CAITE IS MISSIBLE PROW THE TOPS
B: THE CLUME DOWN CLEAR SPACE OF 2 FEET IS BETWEEN THE RISER AND CLEAN
C: THE FRAME IS CLEAR OF THE CLIRB: (IF APPLICABLE) IF A METAL COLLET PIPE CONNECTS TO A CEMENT CONCRETE PIPE. THE OUTLET PIPE SHALL HAVE: A SWOOTH OUTSIDE DIAMETER EQUAL TO THE INSIDE DIAMETER OF THE CONCRETE PIPE LESS 1/4. 6 [AB] MIM. 12" DEPTH QUARRY SPALLS PER STD. SPEC. 8—15.3(6) & 9—13.6 (QUARRY SPALLS SHALL BE MORTERED WITHIN AREA OF TOP OF BERM). ELBOW DM. 4" [AB] N/A SAN STATES NPPROVED ELEV.=329.10" MAX. FLOW =328.80"[AB] ELBOW RESTRICTOR COUPLING OR FLANGE JOB No. 2002089 SHEETKEY 6 22

INC www.psesurvey.com PACIFIC SURVEY **ENGINEERING** & 98225 EMAIL: pse@psesurvey.com CORNWALL, BELLINGHAM, WA PHONE: 671.7387 FAX: 671.4685 BOLT II EXHPANSION
ANCHORS, OR EQUIV,
WITH ACCRN
CAP NUT OTES.

ALL STEEL SHALL BE ASK STRUCTURAL UNLESS NOTED ORNERMES. COCKE SHALL MATCH BIDLAMEN MODER BRIN.

ALL STEEL SHALL BE PROBED COANTO BRINN MALESSE NOTED OF SHAMES. COCKE SHALL MATCH BIDLAMEN MODER BRIN.

BROATE THE COCKE PASK-OF DIOCHORYS SHAT ISSPRY), OR ESMANLEST.

BRITCHINE THE COCKE PASK-OF DIOCHORYS SHAT ISSPRY, DIOCHORYS.

BRITCHINE THE PASK BIT CONTROLS.

COURSE CESCH MATCH PASK BIT CONTROLS.

(DETAIL CHROINATED FROM CITY OF BELLINGHAM STANDARD PLAN OZBAGOT) A SIDE VIEW SLOPE (TIP.) CONCRETE DRIVEWAY APROACH DETAIL
NOTTO SCALE ON JOINT (TYP.) AN F-3) SECTION (B) 2" REFLECTION TAPE
ALL ADOLH ASS PAN
REFERENCE "B" FOR DETAILS

1" DIA REMOVABLE SS SMOOTH
ROO REFERENCE "B" FOR DETAILS

1-1/8" HOLE BOLLARD DETAIL REFERENCE 'A' AND '8'
FOR DETAILS \$ 30kg GROUT UNDER EACH ANGLE BASE PLATE SEE NOTE 'D' PLAN VIEW CURB & GUTTER (SEE NOTE 3) (>) **@** 3/8" EXPANSION JOINT (TYP.)
(SEE STD. PLAN F-3) B PLAN VIEW CURB & QUITER (SEE NOTE 3) AROUND TO EACH ANGLE 9 PER CITY STANDARD
SEE NOTE 'C' 1. When the driveway width exceeds 15 feet, construct on full depth exponsion joint (see Standard Plan Full 15 With 3/8 i joint file a sign that driveway centerline, secretarine as required at 15 fm; cinum spacing when since any widths exceed 30 fm; cinum spacing when since any widths exceed 30 fm; cinum spacing See Std. Plan F-3 for sidewalls details.

3. Curb and gatter shown, see the Contract Plans for the curb design spacelied. See Std. Plan F-1 for curb details. AND SMOOTH FIXED ROD SHOP WELD EACH END AL ARDUND TO EACH ANGLE STEEL ROD KATEX DEPRESSED

CURB & GUTTER

(SEE NOTE 3) RAMP WITH 12H:1V SLOPE (TYP.) NOTE: THE HOLE FOR THE MOMENTS SHALL SE OUT AFTER HOLE MAY PARKETEN THAN SECON CONSTRUCTION OF THE UPPER 3.7 OF THE MOMENTS 3.0 OF THE MOMENTS OF THE MOMENT 5561 3NDF Works Director O Dote MONUMENT CASE AND COVER AS PER WASHINGTON STATE DEPT, OF TRANSPORTATION STANDARD PLAN H-7 WHEN THE MONUMENT CASE AND
TOWER ARE PLACED IN CEMENT
CONCRETE PAVEMENT THE P SURVEY MONUMENT AND CASE DETAILS SURVEY MONUMENT DETAIL MAILBOX IMPROVEMENT DETAIL FINAL LOCATION AS DETERMINED BY USPS AND APPROVED BY CITY OF FERNDALE. 1. MAILBOXES SHALL BE TYPE I, II, AND/OR III - CBU (CENTRAL BOX UNIT), USPS APPROVED. CITY OF FERNDALE SURVEY MONUMENTS FOR ON-ROAD USE TYPE I, II, OR III COLLECTION BOX VIEW A 2"DIA x2"-- B" MIN LENGTH CALV. - (4) 1/2-13 ANCHOR BOLTS (4) 1/2-13 LOCK NUTS - RUBBER SPACER HED ROCK COMPACTED ENSITY (TYP.) COLLECTION BOX PEDESTAL SURFACE 5-2 Mag RETURN - SEE CONTRACT FOR RADIUS YPICAL CURB SECTION CURB RAMP/DRIVEWAY SECTION SEL MORE SI SEL MO CONTRACTION JOINTS OF ONE OF THE THES SHOWN ABOVE TO BE PLACED TO C/C. JOINTS WUST COMPETELY SEVER THE STRUCTURE TO THE POINTS SHOWN JOINTS WAY BE MADE BY MEDITHING MANUAU 3/18" BITMINKOUS FILER DUMMY JOINTS. JOINTS SHALL BE CLEARED AND EDGED. 2" WEED HOLES TO BE PLACED ON EACH SIDE OF DRIVEWAY SECTION AND A MAXIMUM 60' C/C IN CUT SECTIONS WHERE SIDEWALK DRAIN NOT REQUIRED BY CITY PUBLIC WORKS DIRECTOR. WHIT PRODUCTO ON TRANSPARENT CURNO COMPOUND SHALL BE APPLED AS UNITED PROFESSIONS SECURATIONS. WISHED WORK SHALL NOT WARY MORE THAN 1/8" IN GRADE AND 1/4" IN LIGNMENT WHEN CHECKED WITH 10" STRAIGHT EDGE. A" EXPANSION JOINTS TO BE PLACED AT DRIVEWAY SECTIONS, CURB ETURNS, CURB RAMPS AND COLD JOINTS OR A MAXIMUM OF 80 C/C. XPANSION JOINTS SHALL PROTRIDE 1" BELOW THE BOTTOM OF GUTTER. SIDEWALK RAMP TYPE 2 LAYOUT - NOTE SIDEWALK RAMP, TYPE 2 DETAIL DEN. CORDER L BE AS SPECIFIED IN THE STANDARD SPECIFICATIONS SECTION (B) CONDITIONS WHATCOM-SKAGIT HOUSING 5373 GUIDE MERIDIAN, BUILDING E, #105 BELLINGHAM, WA 98226 (SEE SID FUN F-3030) CURB AND GUTTER DETECTABLE WARNING PATTERN (TIP.)
(SEE DETAL) SEE STD. PLAN F-30.10) 1 T2 AWANGE A SECOND PATTERN (SEE DETAIL CONTRACTION SECTION (C) JOINTS DRAWING R-9 THORNTON WOODS 3. Rump slopes shall not be steeper than 126+1V.

4. Analy folioting photoge shurdhares, justices bears or other
obstructions is frest of romp occess rower or other
obstructions is frest of romp occess rower for the cards
design specified. See States in the Control Phone for the cards
design specified. See States Plan F-1,010 for observab point 1,012 for and exhalls.
6. See Stat. Plan F-1,010 for observab point placement and details. 1. The bottom of the range jatch home a level area (not in excess of 25 in any direction), 4° X4°.
2. The Type 2 Brang Larpout respires tee; (2) of this bid item: "Cement Conc. Sciencial Range Type 2". The bid Item does not inside the adjoined Cult of Charle & California Brange, or the Cement Conc. Pedestrian Curb. ROADWAY & SURFACE IMPROVEMENT DETAILS NTON WOODS PLANNED UNIT DEVELOPMENT
CITY OF FERNBALE, WASHINGTON
ROADWAY AND UTILITY IMPROVEMENT PLANS AS-BUILT DRAWING ORIGINATED FROM WSDOT STD PLAN F-40.12-00 DATED 02-07-07 3/4" DEEP "V GROOVE AT 1/4 POINTS FOR 15' RADIUS AND AT 1/6 POINTS FOR 20' RADIUS. 3/8" # 4 1/2" THRU JOINTS AT CURB RETURNS 3/4" DEEP "V" JOINTS AT DRIVEWAYS N MOTTSL 39 JOINTS & DETAIL 3/8" * 4 1/2" THRU JOINTS -20 c/c. DUMMY Director 7 Date OF GRAVEL BASE, COMPACTED TO 9

UNDISTURBED SUBGRAVE OR APPROVED MATERIAL
UNDISTURBED SUBGRAVE OR APPROVED MATERIAL
UNDISTURBED SUBGRAVE OR APPROVED MATERIAL WHEEL CHAIR RAMPS TO BE LOCATED AT ALL RETURNS ACCORDING TO DRAWING NO. R-14 20' MN 10 NOTES:
ALL FRANCES, COVERS AND VALVE BOXES SHALL BE RAISED TO FINISHED GRADE AFTER THE FINAL LIFT OF PANNOL HAS BEEN COMPLETED. THE FOLLOWING PROCEDURE SHALL BE USED:

1. OUT THE ASPHALT IN AN EVEN CIRCLE AROUND THE STRUCTURE CASTING TO BE ADJUSTED READONS THE FILL MATERIAL WITHIN THE CUT PAYEMENT AREA TO 8 INCHES MIN. BELOW FINISH GRADE.

3. PLACE THE CASTING AT FINISH GRADE.

4. PLACE PRICHARD CEMENT CONCRETE TO WITHIN THE TOP 2 INCHES OF FINISH GRADE.

5. APPLY TACK TO THE STRUCTURE CASTING, CUT PAYEMENT, AND PO CONCRETE.

6. PLACE AND COMPACT 7 INCHES OF ASPHALT CONCRETE CLASS B TO FINISH GRADE.

7. SEAL PAYEMENT JOINTS WITH HOT ARRADOO AND TOP WITH SAND. AND CROSS SECTION CITY OF FERNDALE NOTE ADJUST CASTINGS TO FINISHED GRADE TOPPED W/SAND THRU JONTS SIDEWALKS IN CONMERCIAL ZONES SHALL BE B' IN WOTH. TO 95% OPTIMUM DENSITY DRAWING R-12 In Sinker JOB No. 2002089 22

INC PACIFIC SURVEY **ENGINEERING** & www.psesurvey.com EMAIL: pse@psesurvey.com WA 98225 PHONE: 671.7387 FAX: 671.4685 CORNWALL, BELLINGHAM, DE SEC 24 JULY SE CHEL 15 JULY Director G Date STREET GRADE CITY OF FERNDALE DRAWING
THRU-CURB INLET FRAME & GRATE
WITH VERTICAL CURB INSTALLATION

R-8 AND NO BUT HOOD LOSS IN ALL HEIGHT. O.1 NORMAL GUTTER GRADE (STD. SPEC 4-05 20)
(STD. SPEC 4-05 12(1)) DISTRUCTION JOINTS PIPE ALLOWANCES FACE OF The knockard dismoter that for the greater than 20°. Knockouts stell have a well thickness of 2° minimum to 2.5° maximum. Provide a 1.5° minimum gap between the knockout wall and the colable of the pipe. After the pipe is instituted, ill the pipe with joint montar in accordance with Standard Specification 9-04.3. As acceptable alternatives to the neture shown in the PRECAST (BASE SECTION), there (placed according to the Sectional Septiment) Septiment Septi The Precast Base Section may have a rounded floor, and the walls mube sloped at a rate of 1:24 or staeper. The frame and grate may be installed with the flange up or down. frame may be cast into the adjustment section. CATCH BASIN TYPE 1
STANDARD PLAN B-5.20-00
Bell 1 of seed
Amount of seed
Amount of Amount of Amount of Seed
Amount of Amount of Seed
Bell 2 of Seed
Amount of Seed
Amoun SECTION A-A FRAME & GRATE - 12" MAX. OUTLET PIPE CAST IN PLACE OR MASONRY CONSTRUCTION UNITS MAY BE SUBSTITUTED AS PER APWA STANDARDS OR STATE STANDARDS. 3) FOR DETAILS OF REINFORCEMENT OR INSTALLATION SEE APWA STANDARDS OR STATE STANDARDS. DRANAGE A SHORT DISTANCE FROM CATCH BASIN 4-WAY KNOCKOUTS. PIPE SIZE AND ENTRANCE ANGLE TO BE UMITED BY KNOCKOUTS. CITY OF FERNDALE 4 WN ST-7 CATCH BASHY PRAME AND YANGO GAVES OR MANAPOLE 1990, AND COVER HANDWOLD RECTANDIALAR ADJUSTMENT SECTION ON CHICALAR ADJUSTMENT SECTION CHAVE MACKET FOR **S661 3NN** ublic Works Director PROVED PLACE 1' TO 2' MAXIMUM OF TOP SOIL OVER WASHED ROCK FOR GRASS SEEDING TO ALLOW STORM WATER TO GET INTO DRAIN. STANDARD CURB & GUTTER
STANDARD SIDEWALK — Krodouds shall have a will thickness of 2" minimum to 2.5" minimum. Provides a 1.5" minimum pay between the knodoud wall and the outside of the pipe. After the pipe is initiated, till the pay with joint morter in accomferon with Standard Sportfustion 6.04.3. WHATCOM-SKAGIT HOUSING 5373 GUIDE MERIDIAN, BUILDING E, #105 BELLINGHAM, WA 98226 N N N N N N N N SIDEWALK DRAIN CITY OF FERNDALE USE NONPERFORATED PIPE
VITHOUT FILTER FABRIC WHEN
CARRIED THROUGH NON-CUT
AREAS. FILTER FABRIC TO BE
INSTALLED BETWEEN THE
SOIL AND THE 3/4" WASHED
ROCK. USE PERFORATED PIPE AND FILTER FABRIC IN OUT SECTIONS. DRAWING ST-15 THORNTON WOODS ROADWAY AND UTILITY IMPROVEMENT PLANS DRAINAGE IMPROVEMENT DETAILS AS-BUI PLANNED UNIT DEVELOPMENT LT DRAWING TO MATCH SLOPE SECTION 4 EA. 1/4"X2"X5" STRIPS-WELD TO 3/4" DIA. FRAME SPACE UNIFORMLY A-A SECTION VIEW PIPE PLAN VIEW MATCH REQUIRED PIPE END BEVEL TRASH GUARD FOR STORM PIPE END DETAIL × DIAMETER OF PIPE (6" MIN.) OUTLET PROJECT DETAIL TEN. 3 x DIAMETER OF PIPE (3' MIN.) QUARRY SPALLS TO MIN. 1" ABOVE PIPE CROWN ON SIDE SLOPES IN CHANNEL/DITCH APPLICATIONS MAX. 3" SPACING WELDED TO FRAME CORROSIVE BOLTS B-B SECTION VIEW STEEL BARS (TYP) Je no pie. APRON, SEE NOTE. No. 2002089 22 ∞

INC www.psesurvey.com PACIFIC SURVEY **ENGINEERING** & EMAIL: pse@psesurvey.com 1812 CORNWALL, BELLINGHAM, WA 98225 PHONE: 671.7387 FAX: 671.4685 PACE 8 M. PONTHIDDE RITERS CONCRETE MOR FITTING. ALL HEREST RECORDS THE MAY CONCRETE HAVEO A MANUAL 2E DAY MIREST RECORDS SHALL BE COST A MANUST INVESTIGATION. THESE BLOCK CONSTRUCTOR WHAT IN SCORE SHALL BE COST AND THE STREET SERVE, THESE BLOCK CONSTRUCTOR WHAT IN SCORE SHALL BE COST AND THE STREET SHALL THRUST BLOCK DETALS 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. Cast Iron EMROY ELLO Public Works Director WATER 1 CORPER AWAY C Dote PLACE PIPE ON UNDISTURBED SOIL OR COMPACTED SOIL PER METHOD "C" CITY OF FERNDALE TYPICAL WATER SERVICE (3/4" TO 2") 0 LOCKING TYPE ONLY NOT NECESSARY TO BOND COVER PUPE TO RING AT THIS POINT. BUTT TO RING AND ENCASE IN CONCRETE BLOCK. NOTE BELOW NOT TO SOME ¥ SEWER MAIN BACKFILL WITH LARCE ROCK TO ALLOW HYD. TO DRAIN JUNE 1995 SET HYDRANT 1/4" RAKE PER FOOT Public Works Director I 2" ABOVE CURB OR SIDEWALK CURB OR SIDEWALL BRW SUP JOINT AT MAIN 15" AND SMALLER NORMAL INSTALLATION SIDE SEWER Date (1.) For close coupled hydrants use oil flonge type connections. (2) It hydront rises through concrete use exponsion strip cound hydront borrel, exposion strip cound hydront borrel, all the county of the county o 2-3/4" TE RODS, NUTS & WASHERS STORZ OR EQUAL FITTING, BLINDCAP AND AIRCRAFT CABLE. CITY OF FERNDALE FIRE HYDRANT ASSEMBLY CITY OF FERNDALE NORMAL INSTALLATION AND SMALLER SEWER MAINS PER WSDOT STANDARD PLAN BIBC B'0 SOE SCWER LAID ON UNIFORM SLOPE MIN, SLOPE=2% 品質の M.J. AT MAIN TEE WHATCOM-SKAGIT HOUSING 5373 GUIDE MERIDIAN, BUILDING E, #105 BELLINGHAM, WA 98226 (M.J. x FLANCE GATE VALVE) AS-BUILT NOTE: ONLY INFORMATION NOTED AS "(AB)" HAS BEEN VERHED AND RELD SURVEYED OR MEASURED DURING CONSTRUCTION. AND STENCY SEMEN 20915E3A/55-6 DRAWING SS-6 THORNTON WOODS **WATER & SANITARY** I SIZE OF BLOCK MOTES: I SIZE OF BLOCK YOTES BE DETERMINED BY THE CONTRACTOR, TO BE ADECUME TO SOIL CONDITION AND PRESSIDER WINQUEST. 2 ALL BLOCKING TO BE ON UNDISTURBED AN TEDMIL. AN TEDMIL. BY SBILLING BEQUIRED IF PLUSS MOT SECURED BY BULLING OF ADECUMET. STRANS. NTON WOODS PLANNED UNIT DEVELOPMENT AS-BUI WATERMAIN STOVEPIPE DETAIL AIR VACUUM VALVE ASSEMBLY ANDARD PLAN B-90.30-00 SEWER IMPROVEMENT DETAILS LT DRAWING METMATERS: (A) MESTMAL 12** 45' BEPID, MADMAI (A) MESTMAL CONVOETE THRUST BLOCK, SEE THRUST BLOCK NOTES. (A) MESTMAL 20-1** RADOS. (A) MESTMAL 12-1** BLOCK NOTES. (B) MESTMAL 12** BLOCK NOTES. PROPOSED 12"

APPROVED

No. 2002089

22

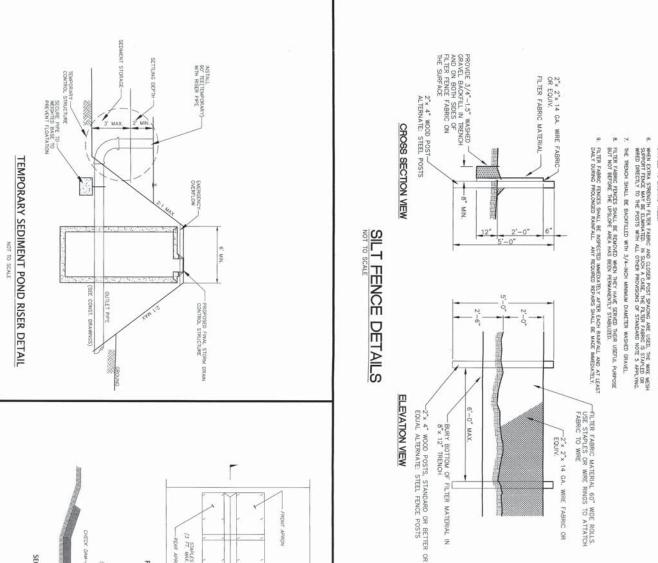
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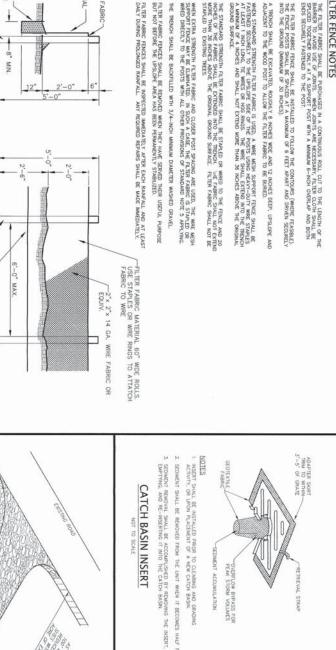
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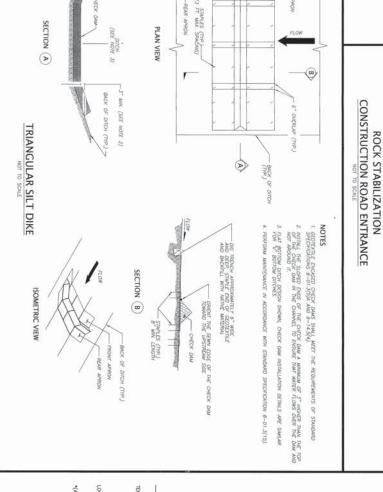


FILTER FENCE NOTES



JUNDER QUARRY S





WITH A 10" WIDE BERM OF 1/2" MIRAFI 140-N

GRATE PROTECTION

ANY AREA NEEDING TESC MEASURES, NOT REQUIRING IMMEDIATE ATTENTION, SHALL BE ADDRESS WITHIN FIFTEEN (15) DAYS.

ANY AREA STREPED OF YESTENTON, INCLUDING ROADWAY EMBAUMENTS, WHERE MY FURTHER WORK IS ANTICHATED FOR A PERIOD OF 7 DAYS, SHALL BE MANEDARED YES YESHELZED WITH THE APPROVED TESC METHODS (I.G., SEEDING, MULCHING, METHNG, EROSOM BLANKETS, ETC.).

THE TESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MA NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.

SEEDING NOTES

NPDES NOTES

EROSION/SEDMENTATION CONTROL FACUTIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS IN TRESE PLANS (LOCATIONS NAY BE MOVED TO SUIT FIELD CONDITIONS, SUBJECT TO APPROVAL BY THE ENGINEER AND THE CITY INSPECTOR. ALL WORK AND MATERIALS SMALL BE IN ACCORDANCE WITH WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS.

all erosidnysedimentation control points with a dead storage depth exceeding 6 inches must have slopes not steeper than 3 μ -iv. WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF TWO INCHES. WHERE SEEDING FOR TEMPORARY EROSION CONTROL IS REQUIRED, FAST GERMANTING GRASSES SHALL BE APPLED AT AN APPROPRIATE RATE (E.G. ANNUM, OR PETERNIAL RYE APPLED AT APPROXIMANTLY SO POUNDS FOR AGRE).

LAW PERMANDET RETENTRALYDETENTRAL PACULTY ISED 65.4 TEMPORAPY SETTIMES BASIN SHALL. BE MODERED WITH THE MEXESSANS PROSON CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE PERMANDET FACILITY IS TO FANCTION LITIMATELY AS AN INFILITATION OF MODERATION OF THE PERMANDET SHALL HOT BE USED 65.4 TEMPORAPY SETTIMES BASIN AN OURSTBEROM OSETTIMEN THAN DETRIMEN WILL, OR SYSTEM WHICH BACKS UNKELS ON A PORTO SHALL BE USED 64.4 TEMPORAPY SETTIMES BASIN.

STAMPLED CONSTRUCTOR ENTRANCES AND WASH PADS SHALL BE INSTALLED AT THE RECOVERY OF CONSTRUCTION AND MANIFACED FOR THE DIDEATON OF THE PROCECT, ADDITIONAL MEASURES THE REQUIRED TO INSURE THAT ALL PANED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.

THEN THE PERIOD OF OCTOBER I THROUGH APRIL 30, ALL PROJECT DESTINESS AREAS.
THAN 5,000 SOURCE FEET, THAT ARE TO BE LET INMOREDS FOR MORE THAN 12 HOURS COVERED BY ONE OF THE FOLLOWING COVER MESSURES: MULCH, SODDING OR PLASTIC.

AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND COMPATANCE LINES SHALL BE CLEANED PRIOR TO PANING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM. 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,

ALL EROSSON COMPRO, FADITIES SHALL BE NASCETED, MANTANED AND REPARED BY THE COMPRACTOR AS LIBED TO ASSIGN COMPRION DEVELOPMENT OF A REPORTO A FLAST LAND ASSIGNED AN EXPOSED FOR EXPOSED THAT AND EXPOSED AN EXPOSED FOR EXPOSED AN EXPOSED FOR EXPOSED FOR EXPOSED AND EXPOSED AND EXPOSED FOR EXPOSED FOR EXPOSED FOR EXPOSED AND EXPOSED FOR EXPOSED FOR

THE CONTRACTOR SHALL KEPP A RECORD OF THE DATES MHEN MAJOR GRADING ACTIVITIES OCCUR, WHEN CONSTRUCTION ACTIVITIES TEMPORABLY, OR PERMANENTLY CEASE ON A PORTION OF THE SITE, AND WHEN STABILIZATION MEASURES ARE IMPLEMENTED.

- A. IF MATERILE OR COURSE TRYTHERD SUBSIGN, WILL RE EXPOSED DURNING GRANDING, STOCKPHILE TOPSCUL, AND RE-SPREAD IT OMER THE PRINSTED SLOPE AND ROLL IT TO PROVIDE A FIRM BISE. B. F CONSTRUCTION FILLS HAVE LETT SOIL EXPOSED WITH A LDOSE, 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.
- 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 ROUGHE FERTILIZATION — AS PER SUPPLIER'S RECOMMENDATIONS. DEVELOPMENTS ADJACENT TO WATER BODIES MUST USE NON-PHOSPHOROUS FERTILIZER.
- SEEDING APPLY APPROPRIATE MIXTURE TO THE PREPARED SEEDBED AT A RATE OF 120 LBS/ACRECOVER THE SEED WITH TOPSOIL OR MULCH NO DEEPER THAN ONE-HALF INCH. 12 E E E -FERTILIZER MIXTURES MAY ALSO BE

PORTIONS PERCENT WEIGHT PURITY 40% 98
TIGHT PUR

WEARSHAD ...

ROADWAY AND UTILITY IMPROVEMENT PLANS **EROSION CONTROL DETAILS & NOTES** PLANNED UNIT DEVELOPMENT

AS-BUILT DRAWING

BRW

WHATCOM-SKAGIT HOUSING 5373 GUIDE MERIDIAN, BUILDING E, #105 BELLINGHAM, WA 98226

BUILT NOTE: ONLY INFORMATION TED AS "(AB)" HAS BEEN VERIFIED OF FIELD SURVEYED OR MEASURED SING CONSTRUCTION.

THORNTON WOODS

2F SEC 24 , THP 39 N, RNG 1 E, W.M.



JOB No. 2002089

TEMPORARY EROSION/SEDIMENTATION CONTROL THE IMPLEDITATION OF THESE TESC PLANS AND THE CONSTRUCTION, MANTEMANCE REPLACEMENT AND UPGAUSING OF THESE TESC FACULTES IS THE RESPONSIBILITY OF THE CONTRACTOR UNIT. ALL CONSTRUCTION IS APPROVED. THE TESS FACULTES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS FOR ANTIHOPATED STR. CANDITIONS. DURING THE CONTRICTION PROPED THESE TEST FACILITIES SHOW BE UPGAVED. (C.G., AUDITIONAL SUMPS, RELOCATION OF DITCHES AND SUT FENCES, ETC.) AS NEEDED FOR UNEXPORTED STORM DEPOTS. THE TESO FACILITIES SHOWN ON THE PLANS MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADUNG ACTIVITIES, AND IN SUCH A MANUER AS TO INSUBJECT THAT SEDILENT LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VOLATE APPLICABLE WATER STANDARDS, APPROVIL OF THESE TEMPORAY ERICKNY/SEDIMENTATION CONTROL (TESC) PLANS DOES NOT CONSTITUTE AN APPROVIL OF PERMICHT FROM OR DRAWNED ESSEN (E.G. SZEE AND LOCATION OF ROMOS, PIPES, RESTRUCTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).

ENGINEERING PACIFIC SURVEY & CORNWALL, BELLINGHAM, WA 98225 PHONE: 671.7387 FAX: 671.4685

EMAIL: pse@psesurvey.com



TYPICAL SECTION - FOOT TRAIL / MAINT. ACCESS ROAD 000 TYPICAL SECTION - 14' WIDE ACCESS ROAD DEPTH RAILWAY BALLAST. TYPICAL ROADWAY SECTION SELECT NATIVE MATERIAL,
D TO 95%, DEPTH VARIES

REMOVE EXST. TOPSOIL
DEPTH VARIES IRANAGE DITCH, LOCATIONS PER PLAN.
TOW UNE WIN, 1-FT DEPH BELOW EDGE OF SHOULDER OF THE CONTROL 1' WIDE 0 NOT TO SCALE ROPOSED FINISHED RADE MIN. ELEV. 341 (A) WHATCOM-SKAGIT HOUSING 5373 GUIDE MERIDIAN, BUILDING E, #105 BELLINGHAM, WA 98226 ANDSCAPING PER ANDSCAPE PLAN, TYP. MAINTAIN 1:1 STRUCTURAL — BASE MATERIAL PRISM, TYP. BOTH SIDES OF ROADW NON-EXCLUSIVE Y

- **KEY NOTES**
- 3 12" MIN. GRAVEL BASE" COMPACTED TO 95% MAX.

 3 12" MIN. GRAVEL BASE" COMPACTED TO 95% MAX.

 BUSIN'S FEB THE MODIFIED PROCTOR METHOD.

- 6" MIN. GRAVEL BASE* COMPACTED TO 90% MAX. DENSITY (95% COMPACTION OVER ALL UTILITY TRENCHES) PER THE MODIFIED PROCTOR METHOD.

(S)

UNDISTURBED AND UNITEDING NATURAL SUBGRADE

(4)

- MUSTAL CURRAN DANA, TRACAL BOTH SIDES OF ROUDINY (CUT SECTIONS ONLY)
 PER COST DIPLAN USE-15.
 ** SMOOTH MALL PERFORMED PAIC PIEC, ASTAL D 3034 SOR35
 (PROVIDE POSTINE T, DOWN TO CATCH BASIN).
 1-1/2" IMASHED ROCK IN/ RUTER FABRIC LINER.
- CONCRETE CURB & GUTTER PER COF STD. DETAIL R-9, TYP. 6" MIN. GRAVEL BASE* UNDER CURB/GUTTER, COMPACTED TO 95% MAX. DENSITY PER THE MODIFIED PROCTOR METHOD
- 4" DEPTH CEMENT CONCRETE SIDEMALK PER COF STD. PLAN R-12 (6" DEPTH CEMENT CONCRETE SIDEMALK AT DRIVEWAY CUTS). OVER 2" OF 3/4" MUSHED ROCK 6" MAN, GRAVEL BASES" UNDER SIDEMALK, COMPACTED TO 95% MAX, DENSITY PER THE MODIFED PROCTOR METHOD

@

9 0

6 6

6" DEEP RAILWAY BALLAST*** CONFO 4-04 OF THE WSDOT STD. SPECS. ***GRADING REQUIREMENTS FOR RAILWAY BALLAST TO SECTION

- PERCENT PASSING 100 80-90 45-75 35-60 100% PETAINED
- MIN. 3" COMPETED DEPTH SANDY LOAM TOPSOIL, HYDROSEED WITH LOW GROW GRASS SEED MIX PER SHEET 20, TYP.

(3)

MODES: MEDIAL AND WORKIAWSHIP SHALL CONFORM TO THE PROMISIONS OF MODOT "STANDARD SPECTICATIONS".

2. ALL DETHIS REPRESENT COMMEDIE THOUSENED TO SERVE AND APPROVE ALL SUBGROUE PRICE TO SACREMENT OF MODEL BASE.

CANDELIN

THORNTON WOODS PLANNED UNIT DEVELOPMENT

TYPICAL SECTIONS

AS-BUILT DRAWING

JOB No. 2002089

22



ALL WORK AND MALEMALS SMALL CONFERM TO THESE PLANS AND TO THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE STATE OF WOMENFORM TO THE STANDARD STREAMS OF THE CITY OF TERMOLATE DEPALS PROBLEM OF THE CITY OF TERMOLATE DEPALS PROBLEMENTS AND AND BEDGE CONSTRUCTION. WORK AND MATERIAL SAMLL ALSO CONFORM THE CONTROL THE THESE PLANS, REQUILITORY STANDARDS. IN OUSES OF A CONTROL THE THESE PLANS, REQUILITORY STANDARDS OF SPECIFICATIONS, THE MORE STRANGATH REQUIREMENT WILL PREVIAL STANDARD OF SPECIFICATIONS, THE MORE STRANGATH REQUIREMENT WILL PREVIAL THE CONTROL THE CONTROL THE STANDARD OF SPECIFICATION OF A CONTROL THE CONTROL THE STANDARD OF SPECIFICATION OF A CONTROL THE CONTROL THE STANDARD OF STANDARD OF A CONTROL THE CONTROL THE STANDARD OF STANDARD OF A CONTROL THE CONTROL THE STANDARD OF STANDARD OF A CONTROL THE CONTROL THE STANDARD OF STANDARD OF A CONTROL THE CONTROL THE STANDARD OF STANDARD OF A CONTROL THE CONTROL THE STANDARD OF STANDARD OF A CONTROL THE CO			
NDARD NDARD LSO CONFORM TO PLANS, REGULATORY UIRED PERMITS AND VIII THE CONTRACTORY	PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL VERIEV THAT ALL RECURSIVES HAVE BEEN OFFICIALLY OF CONSTRUCTION OR FARBICATION SHALL RECURS IN	ALL WORK AND MEDIFICAL SMALL COMPINED IO INCIDENTAL SMALL OF HE ROLLINGUIST GENERAL BEAUTY OF STREET, BEAUTY OF STREET, BEAUTY OF THE CHIT OF FROMULE DREADWARDS AND REDGE CONSTRUCTION, WORK AND MEDIFICAL SMALL SHELL STREET, BEAUTY OF THE CHIT OF	
STANDARD STANDARD L ALSO CONFORM TO N PLANS, REGULATORY REQUIRED PERMITS AND LIMIT THE CONTRACTOR	SHALL VERIFY THAT ALL F	MENT OF TRANSPORTATION MENT OF TRANSPORTATION MORK AND MATERIALS SHALL SE OF A CONFLICT BETWEE DUREMENT WILL PREVAIL	The same of the sa
	REQUIRED PERMITS AND	STANDARD STANDARD L ALSO CONFORM TO N PLANS, REGULATORY	

THE CONTRACTOR SHALL SOMEDULE A PRE-CONSTRUCTION NEITHING WITH REPRESENTATIVES OF THE CITY OF FERNANCE PUBLIC WORKS DEPARTMENT AND THE PROJECT ENGINEER A MANAMAM OF THREE (3) WORKING DAYS PROOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN REVOCABLE ENCROACHMENT PERMITS FROM THE CITY OF FERNDALE PRIOR TO COMMENCING WORK WITHIN PUBLIC RIGHTS-OF-WAY.

5. ALL WORK AND MATERIALS SHALL BE SUBJECT TO JAPPROVIAL BY THE COTY OF FERNALE REPRESENTATIONS.

SHALL CALL AT LESST 24 HOURS IN ANYWAYE TO SCHEDULE INSPECTIONS AS FALLONS.

A. PALAZIBHT OF THEPRACE PROGRAM CONTROL MESSURES.

B. PALAZIBHT OF THEPRACE MAIN AND BLOCFILLING OF WATER MAIN TRENCH WHICH ROAD RIGHTS—OF MAY
OR IN WATERIALE EXCELLING TO BE EXCEDATED TO THE CITY OF FERNALE.

C. PALAZIBHT AND BLOCFILLING OF WATER MAIN TRENCH WHICH SAME SWITARY SEWER WITHEN CONTROL TO THE CITY OF FERNALE.

D. POLITICAL OF WATER MAIN AND BLOCFILLING OF WATER MAIN TRENCH TO THE CITY OF FERNALE.

2) COMPLETION OF CHASTE OURSEE PALAZIBHT.

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E. POLINE OF CHAST OUR TIMES AND SUBJECT ROADWAY.

F. ASPHALT PAWAG IN PROCRESS IN PUBLIC ROADWAY.

F. ASPHALT PAWAG IN PROCRESS IN PUBLIC ROADWAY.

F. ASPHALT PAWAG IN PROCRESS IN PUBLIC ROADWAY.

F. ASPHALT RANGE IN THE RINGED SHOULDERS, DITCHES, PERMANDIT SEEDING AND MONAMACHT PROCRESS.

H. P.DO SEED MAINTENANCE PERSOD.

CLEARNG SHALL INCLUDE THE LOCATION AND REMOVAL OF ALL ABOVE GROUND AND BURBED DEBRIS AND THAT MAY BE PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING SUB-SURFACE STICKIS AND SOLES TYPES.

THE CONTROLTOR SMALL BE RESPONSIBLE FOR PROFUND ADDUNT SAFCHARDS, SAFTY DRIVES, PROTECTINE EXPENSIBLES, SAFTY DRIVES, PROTECTINE AND THE PROFUND AND THE PROPERTY MAD THE PROPER

THE LOCATIONS OF EXERTING UNDERSEAUURO UTILITIES ARE BASED LIPRIN A COMBINATION OF FELD AND RECOMMENSANCE FILES DAMES IN AM REPROGRAME NAV. DARES SPAIN AN INTERES PLANS, IN AMPROCIALITÉ NAV. DARES SPAIN AN INTERES PLANS, IN AMPROCIALITÉ NAV. DARANGE TOR RELE LOCATION OF ALL DESERVANCE UTILITÉ SPAINTES PROCESSIONES AUTORISES DE LOCATIONES DES DAVIS DE RESPAINTS OF ALL DESERVANCE DAVE DE DESERVANCE PLANS AND L'ESTANDA CONSTRUCTION AND EXTRA COMPENSATION HILL DE PAUL TO THE CONTRACTIOR FORME DECURSING FOR REPAIRS WHICH MALL DE CONTRACTIONS SOLE RESPAINS MALL DE CONTRACTIONS SOLE RESPAINS AND TO NOTIFY THE ENABLES PROJETIL OF ANY CONSTRUCTION THE REVENE PROJETIL OF ANY CONSTRUCTION THE REVENE PROJETIL OF ANY CONSTRUCTION. PHONE TO PAUL THE ADMINISTRATION OF THE CONTRACTION STANDARD CONSTRUCTION. PHONE TO PAUL—25-255. THE CONTRACTOR SHALL INFORM THE ENGINEER AND OBTAIN APPROVAL FROM THE CITY OF FERNDALE PUBLIC WORKS DESCRIPE OF ANY PROPOSED DEVATIONS FROM THE APPROVED PLANS PROPE TO CONSTRUCTION OF THE ROISSED IMPROVEDURENTS. THE CONTRACTORS SHALL LEEP RECORDS OF ALL DEVATIONS AND SHALL FORMARD THEM TO THE ENGINEER AND TO THE CITY OF FERNDALE PUBLIC WORKS DEPARTMENT.

THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DIAMAGE RESULTING FROM THE WORK. CONTRACTOR SHALL RESTORE ALL PRIVATE AND PUBLIC PROPERTY DESILIPTED BY THE PROJECT MANDRIANTLY AFREY CONSTRUCTION.

12. ALL DIRESCIONS AND GRADES SHAWN ON THE FLANKS SHALL BE REID MERREID BY THE CONTRIBUTION PROPE TO CONSTRUCTION. CONTRIBUTION SHALL BE CONSTRUCTION BY DESIGN CONTRIBUTION OF THE APPROPRIATES LESS TO REPORTED AND THE CONTRIBUTION SHALL BE PART TO THE CONTRIBUTION SHAPE PROPRIATE ATTURN CONTRIBUTION SHAPE AND TO THE CONTRIBUTION OF DEPORT CONTRIBUTION OF THE CONTR 13. 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 INSTILLED PROTE TO ANY CLEARING OF GRADING. MATERIALS TISTING REQUIREMENTS FOR THE IMPROVEMENTS SHALL BETTHE RESPONSIBILITY OF THE TRACTOR AND SHALL BE PERFORMED IN ACCORDANCE WITH THE INSTRUCTIONS OF THE CITY OF TERROLLE JULY WORKS DRECTOR: CONTRACTOR SHOULD DETERMINE THESE REQUIREMENTS PROPE TO THE START OF

ALL PORTIANO CENENT CONCRETE SHALL BE APMA CLASS 3000, PER APMA STANDARD SPECIFICATIONS, SECTION 8-02.3(2)(8.

INE CONSIDERIOR SESPONSEIE FOR COMENATING WITH HE ROWERS TO ASSIGE ACCURANT AND MELY COLLECTION OF ALL REQUERES AS-BUILDIAN. THIS DAM MICE ACCURANTY REPORTED HE CONTROLS OF ALL UNDERSOAND UTUIES. BOTTOM OF THE ELEVATIONS, MARTH ELEVATIONS, MARTHER ELEVATIONS, MARTHER ELEVATIONS, MARTHER ELEVATIONS, MARTHER ELEVATIONS, CHART LEVATIONS, AND HORSES OF MARTHER AND AT PROPERTY LINE), VERTICAL AND HORSES AND HORSES OF MARTHER AND AT PROPERTY LINE), VERTICAL AND HORSES AND HORSES OF MARTHER SECURIORS OF THE LINES BUILDING BUILDING SERVICE SORTED AS-BUILDING AND FORCES AND MORNING MARTHER AND HORSES AND MORNING MARTHER AND MARTHER AN

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.

IV. WHERE PRACTICAL, INSTALL GRAFTY PIPE UTILITIES PRIOR TO INSTALLATION OF OTHER UTILITY CONSTRUCTION SHALL GE DONE IN ACCHIDANCE WITH THE REQUIREMENTS OF THE OTY OF TERMONLE DEVELOPMENT STANDARDS. where consistent with safety and space considerations, excavated imperial shall be placed on the uphill side of ditches. TRENCH DEWATERING DEVICES SHALL DISCHARGE INTO SEDIMENT TRAPS OR SEDIMENT PONDS.

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

TYPICAL STREET SECTION
PCC CURB AND GUTTER
PCC SIDEWALKS
PCC CURB RAMPS, ADA AI
SIDEWALK DRAINS
MONUMENTS

PROJECT SUPPODO ON THEIR DESCRIPE SHALL SURPLY HE ELEVATION OF THE COMPLETED SUBPORDED ALONG THE ROADWAY CENTERIORE AT 25-TOOT WITEFAMS. THE PROJECT SURPROVED SHALL SURPLY THAT OF TERMALE AND THE ENGARES FOR REVEW. ALL SURPROVED EIGHT SUBPORT ET AND THE CONTROL THAT SURPLY THAT THE DESCRIP SHALL SHALL FROM SHEAR AND THE SURPLY SHALL S

ROUMAY EXPANTON WITHIN THE ROUMAY PRISM SHALL BE CUT TO A UNFORM GROVE. THE COMPLETED SHERBADE SUBPACE SHALL NOT MARY MODE THAN A 101-POOT TROUGH THE LORDER EDGE OF A 15-FOOT STRAIGHTEDGE PLACED ON THE SUBGRAVE PARALLEL TO THE CENTERLINE UNLESS APPROVED BY THE ENGINEER.

THE CONTRACTOR SHALL CLEAR, GRUB AND CLEAV UP THOSE AREAS SHOWN ON THE PLANS.

THE CONTRACTOR SHALL RAZE, REMOVE AND DISPOSE OF ALL BINLING AND FOUNDATIONS, STRUCTURES, FEMCES AND OTHER OBSTRUCTIONS THAT LIE WHOLLY OR PARTIMLY WITHIN THE PROJECT LIMITS.

THE CONTRACTOR SHALL REMOVE AND REPLACE ALL EXISTING UNCOMPACTED OR POORLY COMPACTED FILL SOILS WITHIN THE THE ROAD PRISM AT THE DIRECTION OF THE ENGINEER.

maximum density and optimum moisture for granular materials will be determined using astm $D\!-\!1957$ test method. THE CONTRACTOR SHALL EXCAVATE AND GRADE TO THE ALIGNMENT, GRADE AND CROSS—SECTIONS SHOWN IN THE PLANS OR ESTABLISHED BY THE ENGINEER.

UNSUTABLE MATERIA, NOT FIT FOR USE AS A SUB-GRADE SHALL BE EXCAVITED TO THE BOUNDARES SET BY THE ENGINEER AND REPLACED WITH A SUTABLE BOOFFILL MATERIAL.

THE ENGINEER IS REQUIRED TO CERTIFY SUBGRADE, IN WRITING, PROR TO PANING.

GRAVEL BASES SHALL MEET SPECIFICATIONS PER SPECIFICATION THIS SHEET.

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

CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL COMPACTION TESTING, TO BE PAID FOR BY OWNER

SOIL RESDUAL HERBODE SHALL BE APPLIED BETWEEN ALL COURSES OF ASPHALT.

A TACK COAT OF ASPHALT SHALL BE APPLIED BETWEEN ALL COURSES OF ASPHALT.

ALL PAVEMENT REPAIR SHALL BE SAW-CUT BEFORE REMOVAL. AR-4000W SHALL BE APPLIED TO ALL EDGES OF EXISTING PAVEMENT.

WHERE NEWLY CONSTRUCTED PAYMO METS EXISTING PAYMO, THE APPLICANT SHALL PROVIDE A SMOOTH TRANSITION PROJECTION INSIED GRADE AND MATCH EXISTID PAYMOS. CONSTRUCT COLD PLAYEL/AP JOINT WITH PETROLIC PARRIC, OR BITT JOINT PER LOCATION AND DIMENSIONS SECREED ON THE PLANS.

CONTRACTOR SHALL PROVIDE STRET! ILLUMINATION IN ACCREMANCE WITH THE PROVISIONS OF SECTION 7070 OF THE CITY OF TENDALE DREADLENF STANDARDS. IDCHMATT HAD PRESSURE SOLUMI LAWS SHALL BE INSTALLED ON STANDARD CONDECTE OCTAGONAL OR ROUND PAGES NO LESS THAY 25 FEET HICH AND SPACES NO MADE THAY 250' APART, MEASURED ALONG THE PAREMENT CONTERLINE. POLE LOCATIONS ARE SHOWN ON THESE PLANS.

FINAL LOCATIONS OF STREET LIGHTS IS TO BE COORDINATED WITH PUGET SOUND ENERGY CONTRACTOR MUST INFORM THE CITY OF FERNDALE PUBLIC AT LEAST FOUR (4) WORKING DAYS IN ADVANCE. Contractor is to comply with the specifications shown on wisdot standard detail $_{\rm J}$ -11a, standar junction box, unless otherwise director by the City of Ferndale public works director.

MALIBOX STRUCTURES SHALL BE IN ACCORDANCE WITH DETAIL SHEET 17.
FINAL LOCATION AS DETERMINED BY USPS AND APPROVED BY CITY OF FERNDALE MALIBOXES SHALL BE TYPE I, II, AND/OR III — CBU (CENTRAL BOX UNIT), USPS

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

PRE TOWN REDDING & BLOCPILL

SEE PETAIL & GRANT, SING SECREPLOTION THIS SHEE

TRANSH BLOCATUR.

WASDOT SID, PLANS B-5,20-00, B-10,20

"RESIDENTIAL SENGE LINE" (ACHO BLASS)

OTTY OF FERRALLE STANDARD DETAIL (COSTS)) R-8

SEDEMAX DRAINS

SEDEMA SEE DETAIL & GRAVEL SEDIE SPECIFICATION THIS SHEET SEE DETAIL & GRAVEL SEDIE SPECIFICATION THIS SHEET WESTOT SED, PLANS B-4,520-60, B-4,540-60, B-10,20-60 CITY OF FERNOLLE STANDARD DETAIL (COFSD) ST-7 CITY OF FERNOLLE STANDARD DETAIL (COFSD) R-8 COFSD ST-15

BACK OF WALK DRAIN SHALL BE 4" SMOOTH WALL PERFORATED PVC PIPE, ASTM D 3034 SDR35, INSTALLED IN CUT SECTIONS PER COFSD ST-15. STEMM STREET PER HAWAY DIMMETERS GEGLER THAM 8° SHALL BE CORRUGATION POLYETHYLEINE PER (SPEP)
AND SHALL COMPORAN TO MSKOT STAMMOOD SECTIFICATIONS, SECTION 9-5CD, 30° STORM STREET PER HAWAY
DAMETERS 8° AND SHALLER SHALL BE POLYMANT, CHICARDE (PAC) PER, ASTIN D 3034, SDR 35, AND SHALL
COMPORAN TO MSKOT STAMMOND SPECIFICATIONS, SECTION 9-6CS 12(1).

ALL DRAWAGE STRUCTURES, SUCH AS CATCH BASHS AND MANGLES, NOT LOCATED WITHIN A TRAVELED ROLDWAY OR SIERRAL, SHALL HAVE SOLD LOCKNOR LOS. ALL DRAWAGE STRUCTURES ASSOCIATED WITH A PERMANENT RETENTION/DETENTION FACILITY SHALL HAVE SOLD LOCKNOR LOS. ALL CATCH BASIN GRATES SHALL INCLUDE THE STAMPING UNLESS OTHERWISE SPECFIED, CAST IRON PRODUCTS SHALL CONFORM TO ASTM DESIGNATION "A 48 CLASS 30" AND DUCTILE IRON PRODUCTS TO ASTM DESIGNATION "A 536 GRADE 80-85-06". DUMP NO POLLUTANTS"

EACH DRAINAGE SERVICE STUB SAMLL BE CAPPED WITH A WATERTIGHT PLUG. EACH STUB SAMLL BE MARKED FOR ICOCATION WITH A 2" DIA, WHITE PAC PIPE (MIN. SCHEDULE 40) WITH THE TOP 18" STENCILED WITH THE WOOD "STORM" AND THE PIPER INMET ANDICATED. THE LOCATION MARKER SAMLL BE CONNECTED TO THE SERVICE STUB BY A \$12 COPPER WIRE.

IO/TROOF DRAW SERVICES SHALL BE WIN. 4" PRO PRE, ASTIN D 3,034 SPR35.
WILLTIPLE RESIDENTIAL FORWER DRAWN SERVICES SHALL BE OF PAC PRES, DAWRING TO A COFSD ST-7, INLET.
BY PAC PRE SHALL BE USED TO CONNECT EACH ST-7, INLET TO A NEARBY TYPE 1, TYPE 11, OR TYPE 2 CATCH BASIN

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/ BD ST No.1

WHATCOM-SKAGIT HOUSING 5373 GUIDE MERIDIAN, BUILDING E, #105 BELLINGHAM, WA 98226

THE FOLLOWING STANDARD DETAILS

PIPE ZONE BEDDING & BACKFILL
TRENCH BACKFILL
SS MANHOLE TYPE 1-48"
SSM RING & COVER, TYPE 2
SS CLEANOUTS
SIDE SEWERS

SEE DETAIL & GRAVEL SEVE SPECIFICATION THIS SEE DETAIL & GRAVEL SEVE SPECIFICATION THIS SEE SPECIFICATION THIS WISDOT STD. PLAM B=15,20—00 COPSD SS-9 (BOLT DOWN/WATERTIGHT) COPSD SS-9, SS-8 & SS-13

BESS

TYPICAL SECTION ON SHEET 21 OF THESE PLANS CITY OF FERNOLE STANDARD DETAIL (COPSD) R-9 COPSD R-12 & TPP, SECTION ON SHEET 21 WISDOT SID. PLAN F-40.12-00 (SEE SHEE117) COPSD S1-15

ALTERNIT, PARABATI SCRINKS, WHEN DESIGNED BY A LUENSED REDITENHELL DIVINEER, MAY BE SUBMITED TO THE CITY OF ERMINAL PUBLIC WORKS DIRECTOR FOR CONSEDIATION AND, IF APPROVED, USED IN PLACE OF THE PAPABATI SCRINKS ASHIMA ON THESE PLANS.

SANTARY SEWER PIPE BEDDING SHALL BE FEA GRAVEL PER DETAIL THIS SHEET, AND COMPACTED TO 95% MODIFIED PROCTOR DENSITY.

ALL SANITARY SEWER MAINS AND SERVICES SHALL BE PVC PIPE (ASTM. D 3034 SOR-35) AND INSTALLED TO WISDOT STANDARD SPECIFICATIONS AND CITY SPECIFICATIONS.

ALL WORK MUST BE ASSECTED TO THE SATISFACTION OF THE CITY OF FERNALE. 24 HOUR MOTES MUST BE ASSECTED TO THE SATISFACTION OF A CITY OF FERNALE REPRESSIONATIVE. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH MOST RECENT EDIDITION OF A.P.W.A. STANL AND SHALL BE SUBJECT TO APPROVAL BY THE CITY OF FERNDALE.

ALL SDE SEWERS SHALL BE INSTALLED PER CITY OF FERNDALE STANDARD DETAILS SS-6, SS-8 OR SS-EXCEPT THAT SINGLE SIDE SEWERS SHALL HAVE A MINIMUM DAMFTER OF 4. AL MANOLES SHALL BE NETALLED PER CITY OF FERNOLE SS-2, SS-3 OR SS-4, AND SHALL BE BE PRE-CHANGELD. MANOLE COMES ARE TO BE OFFSET SUCH THAT LADDER RUNGS ARE PARALLED TO THE FLOW.

TOR SHALL EXTEND SEWER SERVICE STUBS TO LIMITS OF UTILITY

DOR OR 10 FEET BEYOND

EACH SIDE SEMER STUB SHALL BE CAPPED WITH A WATERTIGHT PLUG. EACH STUB SHALL BE MARKED FOI LOCATION WITH A Z DA, PAC PIPE (MBL SCHEDULE 40) WITH THE TOP 18" PAINTED GREEN AND STENCIE "SENEY AND THE PIPE NYERT INDICATED. THE LOCATION MARKER SHALL BE CONNECTED TO THE SERVICE COPPER WIRE.

D WITH THE WORD STUB BY A #12

ALL WATER MAN EPER SMALL BE DUTTLE IRON, MINIMAM CLASS 50, PER ARMA STANDARDS H3-71 AND C151-71, WITH CLEERT LINNER PER ARMA STANDARD C104-71, ALL MORK AND MATERIALS SMALL COMPORM TO THE REQUIREMENTS OF THE CITY OF FERNOALE DEPLICIPMENT STANDARDS, SECTIONS 702 AND 705.

PIPE ZONE BEDDING & BACKFILL
TRENCH BACKFILL
AIR-VACULUM RELEKSE VALVE
FIRE HYDRAUT ASSEMBLY
THRUST BLOCKING
WATER SERVICE & BOX

SEE DETAIL & GRAVEL SEME SPECIFICATION THIS SEE DETAIL & GRAVEL SEME SPECIFICATION THIS COPESD W--1 COPESD W--2 W--3 & W--4 COPESD W--2, W--3 & W--4 COPESD W--6, & DETAIL SHEET 19

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WATER SUPPLY

OWNERS BLOCKING SHALL BE AS SECISED IN ORY OF FEHIOLAE STANDARD DETAILS HE-Z, W-3, AND OR AS DIRECTED BY THE FRACES POWERER, BLOCKS SHALL BE INSTALLED, AS SECURED IN SECTION 7-09.3(21) OF THE WISDOT STANDARD SECURICATIONS. NO PRE-CAST BLOCKS ARE ALLOWED. MATERAL FOR FITTINGS SUCH AS CROSSES, TEES, BENDS, REDUCERS AND SLEEPES SHALL BE DUCTLE IRON. JUNIS SHALL BE JUL, FLANCED OR PUSH-ON JOINTS AND SHALL CONFORM TO AWAY SPECIFICATIONS C-110-71 AND C-104-71.

CONNECTIONS TO EXISTING WATER MANS — THE CONTRACTOR MUST NOTIFY THE CITY OF FERNDALE PUBLIC WHOPES DESCRIBED A PROPOSED CONNECTION AT LESS FOUR WORKING CAYS IN JOURNACE. ALL CONNECTIONS SHALL BE DONE BY THE CONTRACTOR. CONNECTION TO EXISTING CITY WATER SYSTEM SHALL BE PAID IN ADVANCE BY A DEPOSIT.

ALL HOROSTATO TESTING AND DISINETETION OF WAITE WARS SHALL CONFIDRA TO SECTION 7-09.3(23) AN FOR THE MEMBERGH STATE EXPERIENCY STATE EXPERIENCE STATE SHAPE STATEMENT STANDARD STECHNICAL STANDARD STATEMENT STANDARD STATEMENT STANDARD STATEMENT STANDARD STATEMENT STANDARD STATEMENT STANDARD STANDARD STATEMENT STANDARD STATEMENT STANDARD STANDARD

ALL PIPE SHALL HAVE A MINIMUM COVER OF 36 INCHES.

ALL VALVES SHALL HAVE NON-RISING STEMS AND SHALL OPEN COUNTERCLOCKWISE AND SHALL WITH A 2 INCH SQUARE OPERATING NUT. VALVES WILL BE FLANGE OR M.J. JOINTS. VALVE MARKERS SHALL BE LOCATED OUTSIDE OF PAVEMENT SECTIONS. GATE VALVES SHALL BE USED FOR LINES 2 MOHES THROUGH 8 NOHES IN DAMETER. SHORT-BODY WAVE SUIRBLE FOR A NOW-SHOCK SHUT-OFF PRESSURE OF 130 FS AND SUIRBLE FOR DRECT BHALL ARE SPECIFIED. CARE WAVES SHALL BE RESULDET SEXFOR BROW-BODY, PLIL—BROWZE WOMEDS WAVES CONFIGHING TO ANNA C509 AND SUIRBLE FOR SERVICE WITH THE TYPE AND CLASS OF PIPE USED.

COMPACTOR IS RESPONSIBLE TO SET WATERMETER BOXES TO THE FINISHED GRADE BEHIND SIDEWALK. FINISHED GRADE BEHIND SIDEWALK SHALL MEET CITY APPROVAL. with service the installations shall meet the requirements of the city of ferroale idealopheds. All water service stud ends shall be marked for location with a 4 long 2" \times 4" thisder, painted blue.

FIRE HYDRANI'S SHALL HAVE THE STORZ PORT FADING THE REDURED ACCESS AND THE BASE FLANGE OF THE HYDRANI MUST NOT WARY HOWE THAN I TOO'I IN ELEKTION FROM THE GRADE LEAEL OF THE REQUIRED ACCESS. THE LOWEST STEM SHALL BE A MINIMAM OF 14" ABOVE THE GROUND.

FRE HYDRANTS MIST BE MANTAINED IN AN OPERABLE CONDITION AT ALL TIMES AND MIST BE REPART OR REPUACED WIND OBFECTIVE. HYDRANTS SHALL BE FULLY OPERABLE BEFORE CONSTRUCTION COMMENCES ABOVE GROUE LEVEL. WIGHERGOUND SUPPLIES TO THE HYDRAYTS MUST BE INSEPTIED. SUCH INSPECTION SMALL MOUDE VOLUME UNSEPTION OF PHINA AND HYDROSTATIO PRESTITE TESTING TO A MAIL OF 200 PSI OR 50 PSI IN DICKESS OF STREET MAIN PRESSURE, WHOLHOUSE IS GREATER. A FLOW TEST WILL BE REQUIRED WHEN MISTALLION IS COMPUTED.

95%

BACKFILL SHALL BE GRAVEL BASE, PER SPECIFICATION THIS SHEET, IN STREET RIGHTS-OF-WAY, COMPACTED OPTIMUM DENSITY. IN UNIMPROVED AREAS, MINIMUM COMPACTION SHALL BE 90% OF OPTIMUM DENSITY.

ALL WAVES SHALL BE EIHER ONE OR BUTTERFLY TYPE VALVES AND SHALL BE INSTALLED WITH SLIP TYPE CAST BON VALVE BOXES.

FIRE HIDRANTS AND FIRE MAINS MUST CONFORM TO COF STANDARD DETAIL W-1 (WSDOT B-19) AND THE FOLLOWING STANDARDS:

THE HYDRAYTS SHALL HAVE THO MONDULULY-MAVED 2-1/2" PORTS AND ONE 5-1/4" MAIN WAVE OPENING, A 4-1/2" FORT PUMPER HOZZIE AND A 5" STORZ PORT MITH, CAP AND CHRIE SHALL BE SUPPLIED. HYDRAYTS SHALL ETHER BE DINA OR M.H. 929T HYDRAYTS.

s "in e pieud words diectore determies that fee kroemis are valarque to verdually quare, appropriat (1948) posts a quall de propriod, no destructions syall, dest modula a 3-folt working area, of educ required access, coassi posts syall de 4* coasti-fillto A Max (5° 3 M kiedet with a max (5° 2° 0° prof. BLOW 6940E. HOTOWNT SMUTOFF NAVES SWA BE LOCKIDD BENIESES 3440 20 FROM THE HOTOWNT.

BUILT NOTE: ONLY INFORMATION TED AS "(AB)" HAS BEEN VERIFIED D FIELD SURVEYED OR MEASURED RING CONSTRUCTION.

THORNTON WOODS NTON WOODS PLANNED UNIT DEVELOPMENT
CITY OF FERNOALE, WASHINGTON
ROADWAY AND UTILITY IMPROVEMENT PLANS

GENERAL CONSTRUCTION NOTES LT DRAWING

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MERCHEN

