PACIFICDRP ENERGY
A PACIFICORP COMPANY

PACIFICORP ENERGY
LEWIS RIVER
WOODLAND RELEASE POND IMPROVEMENTS

VOLUME 1-CONSTRUCTION DRAWINGS
















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STRUCTURAL NOTES:
1) GENERAL:
A. CONSTTUCTION DOCUMENTS SNEW TE APROVED CONTTUCTION
    DOCUMETS AN NNTIFTHE ENGENEEROF ANY ERRINS OR
    2. THE CONTRACTOR SHALL FURNSH AND INSTAL EVERYHING
        MENIN.IF THERE IS AN OMISSION ON THE PLANS, SLCH
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        O
        BUULING CODE AND ALL OTHER SPECIFICAIONS, CODES
    \, DOCUMENTS. STOR SHALL NOTIFY THE OWNER IMMEDIATELY IF
        ANY UNDENTFIED EXXITING UNDERGROUND UTILTIES ARE 
    NOT SHOWN ON THE DRAWINGS.
    *)
        CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL UO
        M,
        M,
        OW EXPNSE SHALL ENGAGE' PROPERYY QUCLIFIED PRSSNS
        lol
    ON THE ABOOE NOTTD IENMS.
        LOSSITUTTD, OMITTED, OR ALTERED FROM THE APPROVED SET
        FROM THE ENGINEER,
    M. DIMENSIONE WADNMONSIONS SHALL TAKE PRECEDENCE OVER SCALED
    2. ABBREVATIONS USED ON THE APPROVED CONSTRUCTON
    M,
        *)
    c. SHOP DTAWINGS:
        NOTES, AHALL BE SUBMMURDD TO PHE THESINERR IN A TMMELY
        REVHEWN PRIOR TO FABRICATON TO ALLOW FOR PROPER
        \, ($)
        GULING OFFICAL AND SHOP DRAWINGS HAVE EEEN APROVED
        3. DURING SHOP DRAWNG REVIEW DIMENSIONS AND QUANTTIES,
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    D. SPECIAL INPECTIONAL EMPLOY A SPECIAL INSPECTON SERVICE AS
    \. S. TEE OWNE SHALL EMPLOY A SPECIAL INSP
        MCAL NOTES AND DETALSS: SPCS SHALL TAKE PRECEDENCE OVER
        STANDARD TYPICAL NOTES AND DETALLS. 
        STANARD TYPICAL NOTES AND DETALSS. ARE TO BE USED
        REFRRED TO OR WHEN NO OTHER MORE RESTRICTVE OR
    3. WORK NOT PARTCCLARLY SHOWN OR SPECIFIED SHALL BE THE
    SAME AS SIMLLAR PARTS THAT ARE SHOWN OR SPECIFED.
    N 1. ALL WORK SHASL 
    -2009 INTERNATONAL BUILDING CODE (IBC)
    - ANY OTHER REGLATING AGENCIISS WHCHM MAY HAVE (INE THE
    STATE OF WASHNGTON. NSD STANARSS NOTED SHALL BE OF
    \ UNLESS NOTED OTHERWSEE,
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2) DESIGN CRITERA:
A. 2009 international bullding code (ibc)
1. DESII LINE LOADS: $=20$ PSF
2. GROUND SNOW LOAD $=25$ PS
3. SEISMIC DESIIN CATEGORY $=0$
4. MPORTANEE FACTOR $=1.10$
5. 
6. IMPORANES ACACOR $=1.10$
7. SIE CLIASS $=$ D
8. SEIIMIC RESPONSE COEFFIEIENS: SDS $=0.668$
SD1 $=0.376$
SESINS

3) FQundations
A. MAXIMUM ALLOWABLE FOUNDATION SOIL BEARING

PRESSURE $=2000$ PSF. (ASSUMED)
B. FOR FROST PROTECTION THF BOTO
B. FOR FROST PROTECTION, THE BOTTOM OF ALL

PERCENT OF THE MAXIMUM DENSITY AA DEETERMINED
BY ASTM DI557. BRACE WALS AND PIERS AS
BY ASTM D1557. BRACE WALLS AND IIERS AS
REQUIRED DURING BACKFLLING OPERATINS.
4) SPECIAL INSPECTION PROGRAM:
A. THE OWNER SHALL EMPLOY AN APPROVED AGENCY FOR
 B. 2009 ANTERNATINAL BULLDING CODEN ESTABLSHED AND RECOGNIZD AGENCY REGUARLY ENGAGED IN
CONDUCTING TESTS OR FURNISHING INSPECTON
 THE BULLING OFFIIIAL FOR THE INSPECTION OF THE
PARTICLAR TYPE OF CONSTRUCTON OR OPERATON
 SHAL ALLS DEMONSTRATE A THOROUGH WORKIN ANY OMISSION ON THE SUMMARIIEE LST BELON SUCH
OMISSION SAL NOT BE CONTUED TO MEAN THAT THE
SPECIAL INSPECTOR IS NOT REOURED TO MSPET


 APPROVED CONSTRUCTION DOCUMENS. DISCREPANCIES
SHALL BE BROUGHT TO THE IMMEDATE ATENTON OF SHALL BE BROUGH TO THE IMMEDATE ATHENTION OF
HE CONTRACTOR FOR CORRECTON. IF THE
DISCREPANCIES ARE NOT CORRECTED THE DISCREPANCIIS
SHAL BE BRUGHT TO THE MMEDATE ATENTION OF
THE ENGINEER.
5) SPECIILL INSPECTIONS:
A. SPECIAL INSPECTION AS HEREIN REQUIRED OF THE


B. AND REEERENCED STANDARD.

BY THE ENG INEER OF RECORD DE SES NOT NAL SUE OR
WAVE THE RESPONSIBIITY FOR THE SPECAL INSPGCTIO

OF THE NTERNATIONAL BULIDING CODE.
SPECIAL INSPECTION IS REQUIRED PER SECTION 1704.2
WHERE FARICAION OF STTUCTURAL LOAD-BEARING MEMEERS AND ASSEMBLLES IS BEING PERFORMED ON THE PREMISES O A A FABRICTOR'' SHOP UNLESS THE
FABRICATOR IS REGISERED AND APPROVED TO FABRICATOR IS RECIITERED AND APPROV
PERFORM WTHOUT SPECAL INSPECTION.

1. SPECIAL INSPECTION IS REQUIRED PER SECTION
1704.3 AND TABLE 1704.3 .

2. CONTINUOUS INSPECTION IS REQUIRED FOR:

GROOVE WELDS
MULTIPASS FILLET WELDS
SINGLEEASAS FLLET WELDS $>5 / 16^{\circ}$
3. PERIODIC RNSPECTION IS REQURED FOR:

SINGLE PASS FILLET WELDS <5/16
4. SPECAL INSPECTORS SHAL BE RROVIED DURING

REINNORCING STEEL NOT PERFORMED IN A CERTFIFIED
EABRICATION FACLTY
F. Bolits:

SPECIAL INSPECTION IS Required Per section
1704.3.3.
PERODODI. . 1 SSPECTION IS REQUIRED FOR:
BEARING TYE CONECTIONS
MABERIL YERIICATITN OF HIGH STRENGTH BOLTS,

 MANFACTURER'S INSTALLATION INSTRUCTIONS.
G. CONCRETE: 1 . SPECCLAL INSPECTION IS REQUIRED PER SECTION
 PERIODIC INSEECTION IS REQURED FOR:

- PACCMENT OF REINERRING SEEEL
- ERECTION OF PRE-CAST CONCRETE MEMBERS

1704.7. SPECIAL NSSECTION IS NOT REQUIRED DURING
PLACEMENT F FILL LESS THAN 12 DEEP

2. COMPMACTON REPLLLESS ARH TAN 12" DEEP. SUBMITED
FOR REVEW.

















| RaL SCHEOUE (SEE NOTE 1) |  |  |  |
| :---: | :---: | :---: | :---: |
| ${ }_{\text {cosoup }}^{\text {Cob }}$ | PIPE Mmitral | frmmes/Jons | LINNGS \& Coatincs (SEE Note ${ }^{\text {13) }}$ |
| 1 | STEEL ASTM ASJ, SCHEDUE 40, BLACK WEDD. |  <br>  | Not APPUCABLE |
| 2 | STECL. ASTM A53. SCHEDULE 40. glack weded gavenize |  <br>  | Not APPLCABLE |
| 8 | WELDED STEEL PPE (AWMA C200 \& MOOIFED PER SECTION 02570) | WELDD STEEL AMWA C20B. FAB |  |
| 11 | DUCTILE IRON, ASME A21.51. (AWWA C151 AND MODIFIED PER SECTION 02565) <br> (TYP SERVICE - RAW, POTABLE \& SANTTARY SEWER) | SUCTLE IRON AWWA C110 AND MODIFED PER SECTION O2565. BELL AND SPIGOT JOINTS (RESTRANT <br>  <br>  | STNDAROD LINNG |
| 15 | STANLESS STEE, TPPE 316, ASTM A312, SCHEDUE 10 S. | STANLESS STEG, TMPE 316 WEDED SUP-ON FRG ASME B16.3, OR SOCKET WEDID FTINGS SCHEDULE 40S, (NO THREADED JOINTS ALOWED) | NOT APPICABEE |
| 18 |  |  (SOLVENT \& GLUE SHALL BE COMPATIELE WITH FLUID SERMCE) | NOT APPLCABLE |
| 20 | HIGH DENSITY POLYEIHYENE CORRUGATED NON-PERFORATED, ASTM F40 (ADS N-12 WATER-TGGT" PIPE OR EQU INDICATED. (TMP SERMCE - DRANAGE \& UC) |  | NOT APPLCABETE |
| 21 |  | FOR COUPUNGS NND END-PROTECTORS, SEE SREC 02567 | Not APPLCABLE |
| 24 | COPPER, ASTM B88, TYPE K, SOFT TEMPERED WHERE BURIED, HARD TEMPERED WHERE EXPOSED. <br> (TMP SERVICE - COMPRESSED AIR, POTABLE WATER) | WROUGHT COPPER OR CAST BRONZE, ASME B16.22, SOLDER JOINT, 150 PSI, OR COMPRESSION ITTINGS. (FOR OXYGEN PIPING USE SILVER SOLDER, FOR COMPRESSED ARR PIPING USE 95-5 TIN-ANTIMONY SOLDER) | Not APPLCABLE |
| 27 |  (TTP SERMCE - SANITARY SEWERS) | POLMMM CHLORDE. ASS/SSTM DS334, BEL AND/RR SPICOT. | NOT APPICBEBE |
| 31 | HIGH DENSITY POLYETHYLENE (HDPE-AWWA C906) ASTM D3350 DIP OD SIZE AS INDICATED ON DWGS DR26 (NOTE 17) | IOPE THERMAL BUTT WELD; DIP OD SIZE FANGE CONNECTONS AT ALL TRANSTIONS TO PIPE IL 11 OR 8 . MECH JI PPE CONNECTONS O VALVES. | CRND INERIOR WELO BEOSS SMOOTH |
| 37 |  | STAINLESS STEEL, TYPE 316L, COMPRESSION FITTINGS AS MANUFACTURED BY SWAGELOCK OR EQUAL (NPT FITINGS ALLOWED ON WATER LINES ONLY) | NOT APPLCABE |
















