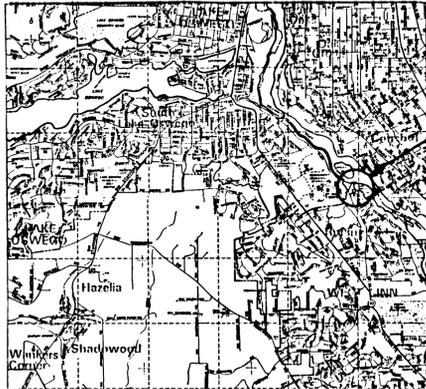


CONSTRUCTION NOTES



PROJECT SITE

VICINITY MAP
N.T.S.

CONSTRUCTION PLANS FOR

**STREET & UTILITY IMPROVEMENTS
WILLAMETTE SHORES ESTATES**

WEST LINN, OREGON

SHEET LEGEND

| NUMBER | DESCRIPTION |
|--------|---|
| 1 | TITLE SHEET |
| 2 | GRADING AND EROSION CONTROL PLAN |
| 3 | STREET AND STORM SEWER PLAN |
| 4 | SANITARY SEWER AND WATER SYSTEM PLAN |
| 5 | STREET, STORM SEWER AND SANITARY SEWER PROFILES |
| 6 | DETAIL SHEET |

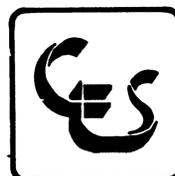
PREPARED FOR:

DON AND SALLY STARK

18404 OLD RIVER DRIVE

LAKE OSWEGO, OREGON 222-9966

PREPARED BY:



**CONSULTING ENGINEERING SERVICES
14780 S.W. OSPREY DRIVE, SUITE 395
BEAVERTON, OREGON 646-4509**

- A. GENERAL
1. ALL PUBLIC IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF WEST LINN CONSTRUCTION STANDARDS.
2. ELEVATION DATUM: CITY OF WEST LINN NUMBER 2211 (ELEV. = 193.66), BRASS DISC ON RIGHT-OF-WAY LINE OF THE STATE HIGHWAY #43, 200 FEET SOUTH OF MATYLIURST COLLEGE ENTRANCE.
3. THE CONTRACTOR SHALL PERFORM ALL THE WORK SHOWN ON THE DRAWINGS AND ALL INCIDENTAL WORK NECESSARY TO COMPLETE THE PROJECT IN AN ACCEPTABLE MANNER. ALL INCIDENTAL WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE ITEMS OF WORK LISTED IN THE PROPOSAL. ANY ITEM NOT LISTED IN THE PROPOSAL IS CONSIDERED INCIDENTAL.
4. THE CONTRACTOR AND/OR SUB CONTRACTORS SHALL HAVE A MINIMUM OF ONE (1) SET OF APPROVED CONSTRUCTION PLANS ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION PHASES.
5. ALL MATERIAL SUPPLIER(S) SHALL UPON REQUEST, SUBMIT TO THE ENGINEER PROOF OF MATERIAL(S) TESTED IN ACCORDANCE WITH THE SPECIFICATIONS. BY ACCEPTANCE OF THE CONTRACT WITH THE OWNER'S COSTS, THE CONTRACTOR CERTIFIES THAT ALL MATERIALS DELIVERED TO THE JOB SITE OR INCORPORATED INTO THE WORK WILL MEET OR EXCEED SPECIFICATIONS. ANY MATERIAL NOT CONFORMING SHALL BE REMOVED AT NO ADDITIONAL COST TO THE OWNER.
6. CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY SIGNIFICANT DISCREPANCIES. UTILITIES HAVE BEEN LOCATED FROM AVAILABLE RECORDS AND MAY NOT BE AS SHOWN HEREON, MOREOVER THOSE SHOWN MAY NOT BE ALL THAT MAY EXIST ON THE SITE. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AT 48 HOURS PRIOR TO BEGINNING EXCAVATION. EXCAVATORS MUST COMPLY WITH OTS 787.541 TO OTS 787.571.
- B. STREETS AND STRUCTURAL FILLS
1. ALL TREES, BRUSH AND DEBRIS WITHIN LIMITS OF THE RIGHT-OF-WAY AND ON THE AREAS TO BE FILLED SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR UNLESS OTHERWISE NOTED ON THE PLANS.
2. ALL AREAS OF CONSTRUCTION SHALL BE STRIPPED. STRIPPING SHALL CONSIST OF REMOVING THE TOPSOIL 18 INCHS. EXCESS STRIPPING MATERIALS SHALL BE DISPOSED OF BY THE CONTRACTOR, OFF-SITE.
3. CURBMENTS OR STRUCTURAL FILLS FOR STREET CONSTRUCTION ON FILLS TO BE CONSTRUCTED ON BULMABLE AREAS SHALL BE CONSTRUCTED FROM EXCAVATED MATERIALS ACCEPTABLE TO THE ENGINEER AND SHALL BE BROUGHT TO GRADE IN LIFTS NOT TO EXCEED 6" LOOSE MEASURE. EACH LIFT SHALL BE COMPACTED TO 95 PERCENT MAXIMUM DENSITY AS DETERMINED BY ASTM D 1557 COMPACTION TEST.
- FILLS SHALL NOT BE CONSTRUCTED ON NATURAL SLOPES STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL. ALL SLOPES SHALL NOT EXCEED TWO HORIZONTAL TO ONE VERTICAL. NO ROCK OR SIMILAR IRREDUCIBLE MATERIAL WITH A MAXIMUM DIMENSION GREATER THAN 12" SHALL BE BURIED OR PLACED IN THE FILLS.
- IF SPRINGS OR GROUND WATER ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL ADVISE THE ENGINEER OF THE CONDITION FOUND AND COORDINATE HIS ACTIVITIES IN A MANNER THAT WILL ALLOW THE ENGINEER TIME TO REVIEW THE SITUATION AND PREPARE A PLAN TO PROPERLY DISPOSE OF THE WATER ENCOUNTERED.
4. ROCK BASE, ASPHALTIC CONCRETE PAVEMENT, CURB AND SIDEWALK CONSTRUCTION SHALL BE AS SHOWN ON THE TYPICAL SECTIONS AND IN ACCORDANCE WITH THE ABOVE REFERENCED SPECIFICATIONS.
5. PROVIDE A MINIMUM OF TWO 3 INCH PLASTIC PIPES PER LOT FOR CURB WEEP HOLES DURING CURB AND GUTTER CONSTRUCTION (DETAIL SHOWN ON PLANS).
6. CONTRACTOR TO STAMP CURBS DURING CURB CONSTRUCTION WITH "W" TO DENOTE WATER SERVICE AND "S" TO DENOTE SANITARY SEWER SERVICE LOCATIONS.
- C. UTILITIES
1. ALL TRENCH BACKFILL WITHIN RIGHT-OF-WAY AREAS SHALL BE CLASS "B" (GRAVELAR), TRENCH BACKFILL OUTSIDE OF RIGHT-OF-WAY AREAS SHALL BE CLASS "A" (NATIVE).
2. STORM SEWER PIPE SHALL BE OF THE SIZE NOTED ON THE PLANS. CONCRETE STORM SEWER PIPE AND FITTINGS SHALL CONFORM TO ASTM C14.
3. SANITARY SEWER SHALL BE OF THE SIZE NOTED ON THE PLANS. PVC SANITARY SEWERS SHALL CONFORM TO ASTM D 3034 AND ASTM 799 (1-1) WITH RUBBER GASKETS. SANITARY SEWERS SHALL BE AIR TESTED IN ACCORDANCE WITH CITY OF WEST LINN STANDARDS.
4. SANITARY SEWER SERVICE LATERALS SHALL BE 4 INCH PVC AND SHALL BE INSTALLED AT 2% MINIMUM SLOPE UNLESS OTHERWISE NOTED ON THE PLANS. MARK ALL LATERAL ENDS WITH 2"x4" MARKER THAT IS LABELED TO INDICATE DEPTH.
5. ALL SANITARY SEWER MANHOLES WILL BE HYDROSTATICALLY TESTED AFTER FINAL STREET PAVING. ALL SANITARY SEWER MAINS SHALL BE T.V. ED BY THE CONTRACTOR PRIOR TO ACCEPTANCE. A TAPE OF THIS SHALL BE PROVIDED TO THE CITY OF WEST LINN STANDARDS.
6. WATERLINE SHALL BE OF THE SIZE NOTED ON THE PLANS. DUCTILE IRON PIPE SHALL BE CLASS 52 CEMENT LINED CONFORMING TO ANSI A21.51, WITH PUSH ON TYPE JOINTS. CAST IRON FITTINGS SHALL BE MECHANICAL JOINT CONFORMING TO ANSI A21.10. ALL WATER PIPE SHALL HAVE A MINIMUM 36" OF COVER MEASURED FROM FINISHED GRADE.
7. ALL WATERLINE SERVICES SHALL BE 3/4 INCH OR 1 INCH COPPER, TYPE K AS NOTED ON THE PLANS. ALL CORPORATION STOPS, TEES AND ANGLE METER STOPS SHALL BE COMPRESSION FITTINGS.
8. ALL TEES, BENDS, ELBOWS AND CHANGES IN DIRECTION OF MORE THAN 11 1/4 DEGREES SHALL BE SECURELY THROST BLOCKED USING 3000 PSI CONCRETE POURED AGAINST UNDISTURBED GROUND, OR APPROVED ALTERNATE.
9. TESTING, FLUSHING AND STERILIZATION OF ALL NEW WATERLINE IMPROVEMENTS SHALL BE APPROVED BY THE CITY OF WEST LINN PRIOR TO ANY PHYSICAL CONNECTION OF THE NEW WATERLINE TO THE EXISTING CITY WATERLINE. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE CITY OF WEST LINN FOR ANY USE OF CITY WATER SYSTEM F771 TESTING, FLUSHING AND STERILIZATION.
- D. APPROVALS
1. CHANGES TO THESE PLANS MUST BE APPROVED BY THE CITY OF WEST LINN AND THE ENGINEER PRIOR TO IMPLEMENTATION.
2. CONTRACTOR TO ACQUIRE ALL REQUIRED PERMITS BEFORE WORKING IN THE PUBLIC RIGHT OF WAY.
- E. EROSION/SEDIMENTATION CONTROL
1. STABILIZED CONSTRUCTION ENTRANCES 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.
2. ALL DISTURBED AREAS SHALL BE RESEEDED IN ACCORDANCE WITH NOTE #9, SHEET #2 OF THESE PLANS.

AS BUILT



WILLAMETTE SHORES ESTATES
TAX LOT 400 (2-1E-14AD)

CONSULTING ENGINEERING SERVICES
 1722 S.W. CORRY DRIVE SUITE 303
 BEAVERTON, OR 97007 (503) 844-4200



| | | |
|-----------|---|---------|
| REVISIONS | REVISED LOT 4 GRADING | 6-5-91 |
| | REVISED TO REFLECT THE INTERIM CONSTRUCTION | |
| | PRIOR TO REMOVAL OF THE HOUSE ON LOT 4 | 4-12-92 |

GRADING & EROSION CONTROL PLAN

2
6

AS BUILT

WILLAMETTE RIVER



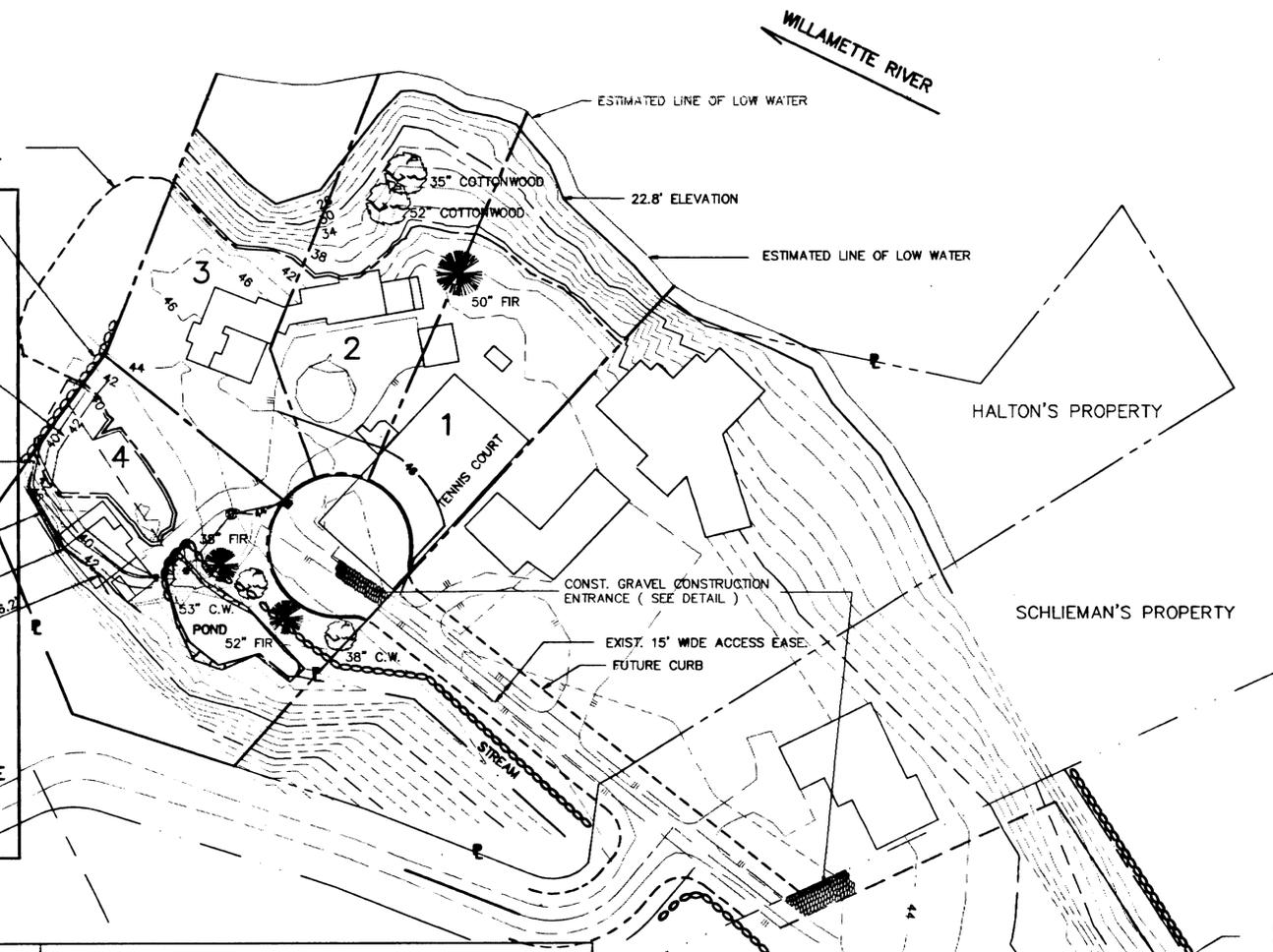
EXIST. 100 YEAR FLOOD PLAIN - 40.75 FT. ELEV.

CONSTRUCT SEDIMENT FENCE OR INSTALL STRAW BALES AS REQUIRED (TYPICAL)

FILL & RE-GRADE LOT IN ACCORDANCE W/ NEW CONTOURS. REMOVE EXIST. STORM SEWER TO EXIST. DRIVEWAY AND CONSTRUCT SWALE (WETLANDS AREA) AS SHOWN. INSTALL RIP-RAP AT PIPE OUTLETS AS REQUIRED. PLANT NEW WETLANDS AREA IN ACCORDANCE WITH WETLANDS MITIGATION NOTES THIS SHEET.

CONST. GABION WALL (SEE DETAIL)

THE NOTES IN THIS BOX RELATE TO WORK TO BE PERFORMED IN THE FUTURE AFTER THE EXISTING HOUSE ON LOT 4 IS REMOVED. IN THE INTERIM, THE EXISTING STORM DRAIN WILL REMAIN AS THE POND OUTFALL AND ALL OTHER STREET AND STORM IMPROVEMENTS WILL BE CONSTRUCTED AS SHOWN. THE HOUSE ON LOT 4 WILL BE REMOVED WHEN THE HOUSE ON THE NEW LOT 1 IS COMPLETE. WHEN THE EXISTING LOT 4 HOUSE IS REMOVED, THE DRAINAGE SWALE WILL BE CONSTRUCTED AND THE EXISTING STORM DRAIN WILL BE REMOVED. WORK TO BE COMPLETED BY JUNE 1, 1993.



LEGEND

- EXIST. CONTOUR
- PROP. CONTOUR
- DAYLIGHT LINE
- SEDIMENT BARRIER (STRAW BALES OR SEDIMENT FENCE)
- EXISTING WETLANDS AREA

NOTE:

THE CONTRACTOR SHALL PLANT THE PROPOSED NEW WETLANDS AREA AFTER FINAL GRADING WITH THE FOLLOWING:

1. HAZELBRUSH (CORYLUS CORNATA)
2. BULLRUSH (SCRIPIS MICROCARPUS)
3. SOFTRUSH (JUNCUS EFFUSUS)
4. RED OSIER DOGWOOD
5. VINE MAPLE
6. RED TOP BENTGRASS

PLANTS 1, 2 & 3 SHALL BE RANDOMLY PLANTED AT APPROXIMATELY ONE-FOOT CENTERS ALONG THE OUTER 2 FEET OF THE WETLANDS PERIMETER.

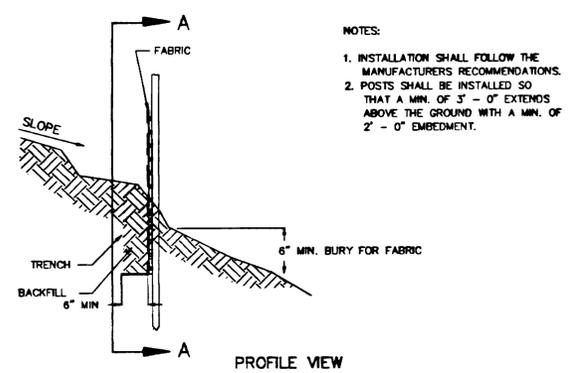
PLANTS 4 & 5 SHALL BE ALTERNATELY PLANTED AT 30-FOOT CENTERS ON BOTH SIDES OF THE WETLANDS PERIMETER.

PLANT 6 (RED TOP BENTGRASS) SHALL BE SEEDED THROUGHOUT THE WETLANDS AREA AT A RATE OF 5# PER 150 SQUARE FEET. APPLY 20-10-10 FERTILIZER EVENLY AT A RATE OF 5# PER 1000 SQUARE FEET.

GRADING, EROSION CONTROL & WETLANDS MITIGATION PLAN

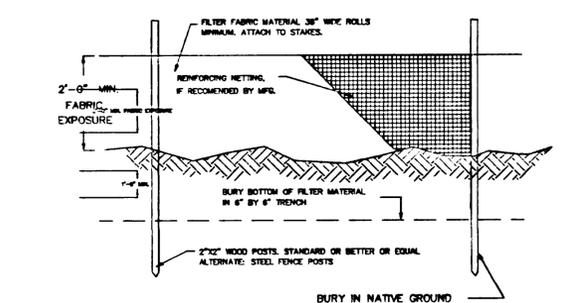
STANDARD EROSION/SEDIMENTATION CONTROL NOTES

1. THE EROSION/SEDIMENTATION CONTROL (ESC) FACILITIES SHOWN ON THESE PLANS ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT-LOADED WATER DOES NOT LEAVE THE SITE.
2. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.
3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THESE PLANS 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.
4. THE ESC FACILITIES SHOWN ON THESE PLANS MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT-LOADED WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS.
5. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
6. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN 48 HOURS FOLLOWING A STORM EVENT.
7. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A TRAPPED CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LOADED WATER INTO THE DOWNSYSTEM SYSTEM.
8. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
9. FOR GRASS RESTORATION, PLACE GRASS SEED OVER BARREN SOIL AT A RATE OF 5# PER 150 SQUARE FEET AND AT A 60/40 PROPORTION OF PERENNIAL BENTGRASS TO CHEWING PESUDO. APPLY 20-10-10 FERTILIZER EVENLY AT A RATE OF 5# PER 1000 SQUARE FEET.



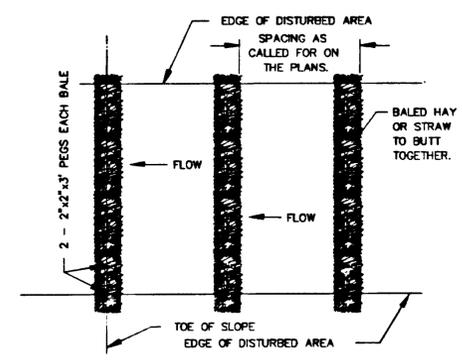
NOTES:

1. INSTALLATION SHALL FOLLOW THE MANUFACTURERS RECOMMENDATIONS.
2. POSTS SHALL BE INSTALLED SO THAT A MIN. OF 3" - 6" EXTENDS ABOVE THE GROUND WITH A MIN. OF 2" - 6" EMBEDMENT.

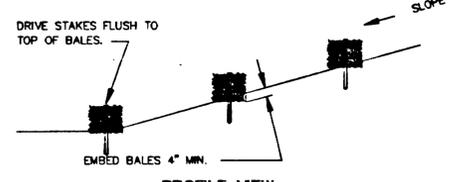


SEDIMENT FENCE DETAIL

N.T.S.



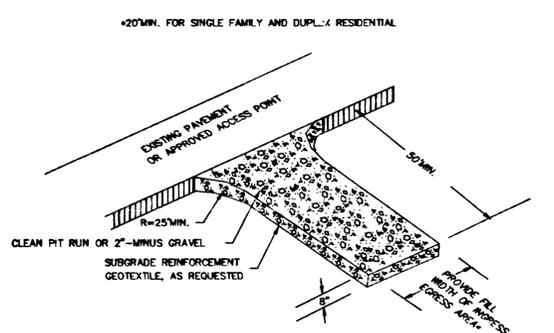
PLAN VIEW



PROFILE VIEW

STRAW BALE SEDIMENT BARRIER

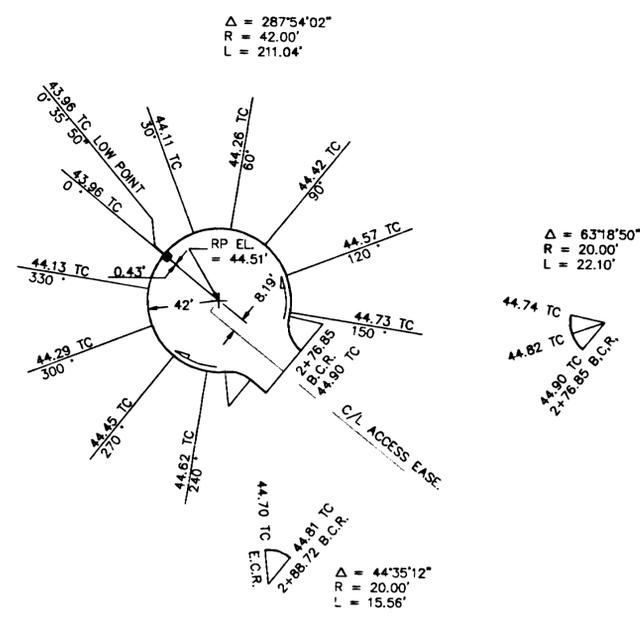
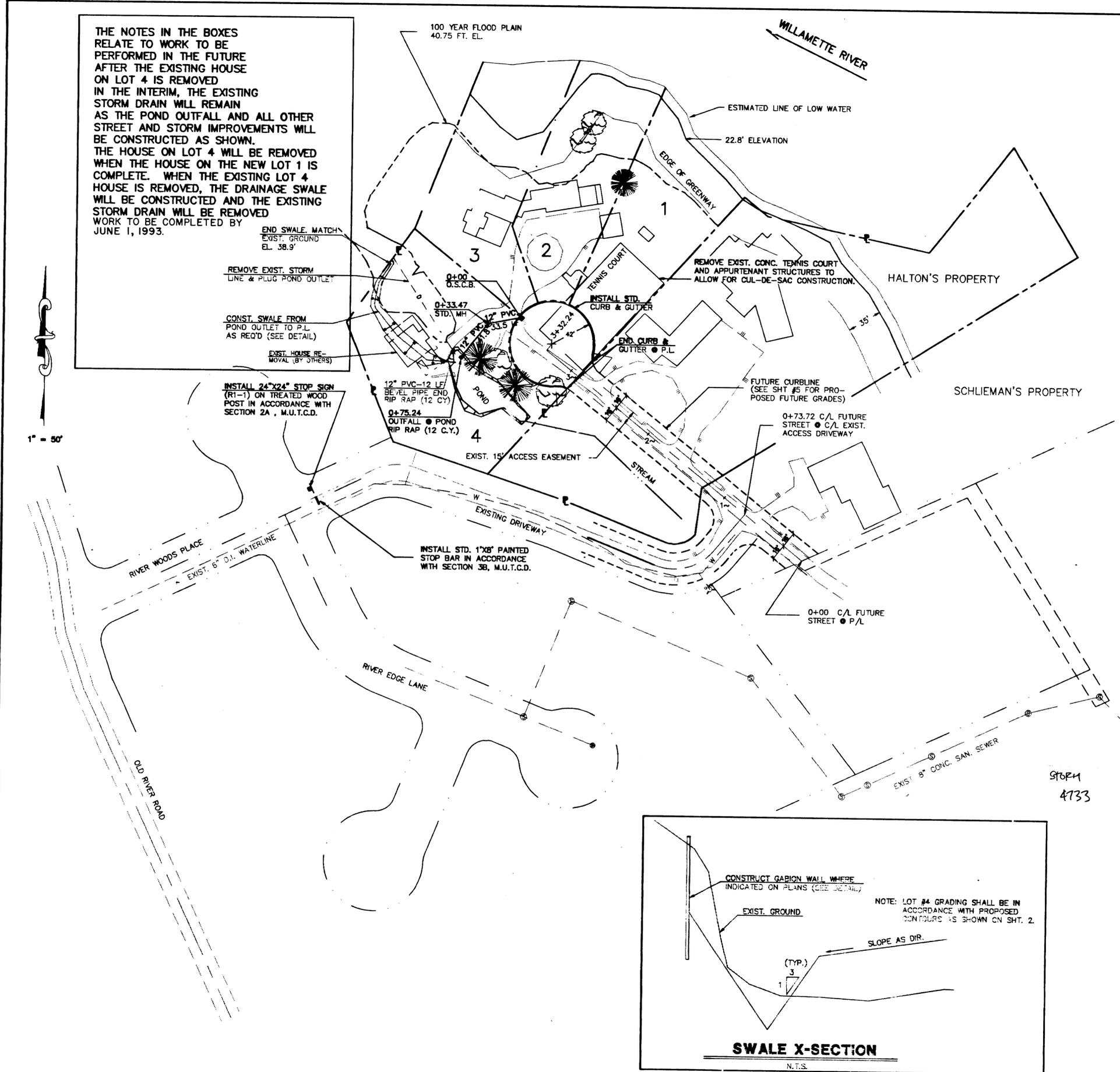
N.T.S.



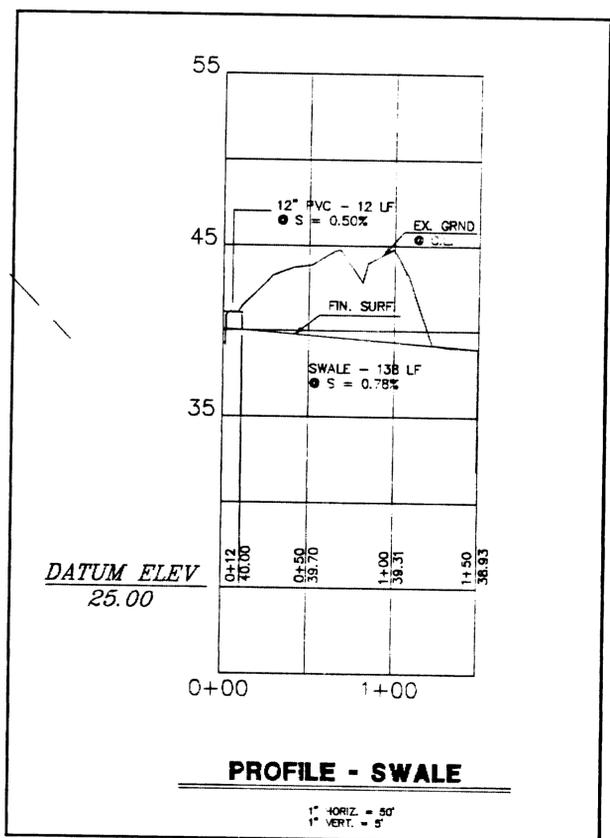
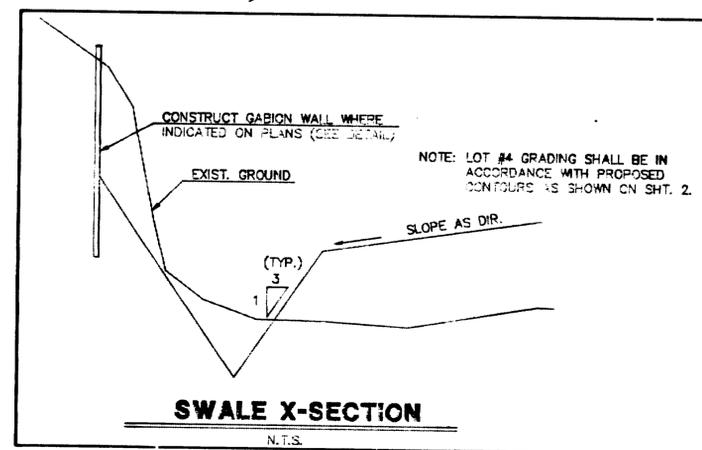
GRAVEL CONSTRUCTION ENTRANCE

N.T.S.

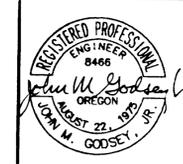
THE NOTES IN THE BOXES RELATE TO WORK TO BE PERFORMED IN THE FUTURE AFTER THE EXISTING HOUSE ON LOT 4 IS REMOVED. IN THE INTERIM, THE EXISTING STORM DRAIN WILL REMAIN AS THE POND OUTFALL AND ALL OTHER STREET AND STORM IMPROVEMENTS WILL BE CONSTRUCTED AS SHOWN. THE HOUSE ON LOT 4 WILL BE REMOVED WHEN THE HOUSE ON THE NEW LOT 1 IS COMPLETE. WHEN THE EXISTING LOT 4 HOUSE IS REMOVED, THE DRAINAGE SWALE WILL BE CONSTRUCTED AND THE EXISTING STORM DRAIN WILL BE REMOVED. WORK TO BE COMPLETED BY JUNE 1, 1993.



CUL - DE - SAC ELEVATIONS



AS BUILT



WILLAMETTE SHORES ESTATES
 TAX LOT 400 (2-1E-14AD)

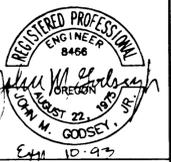
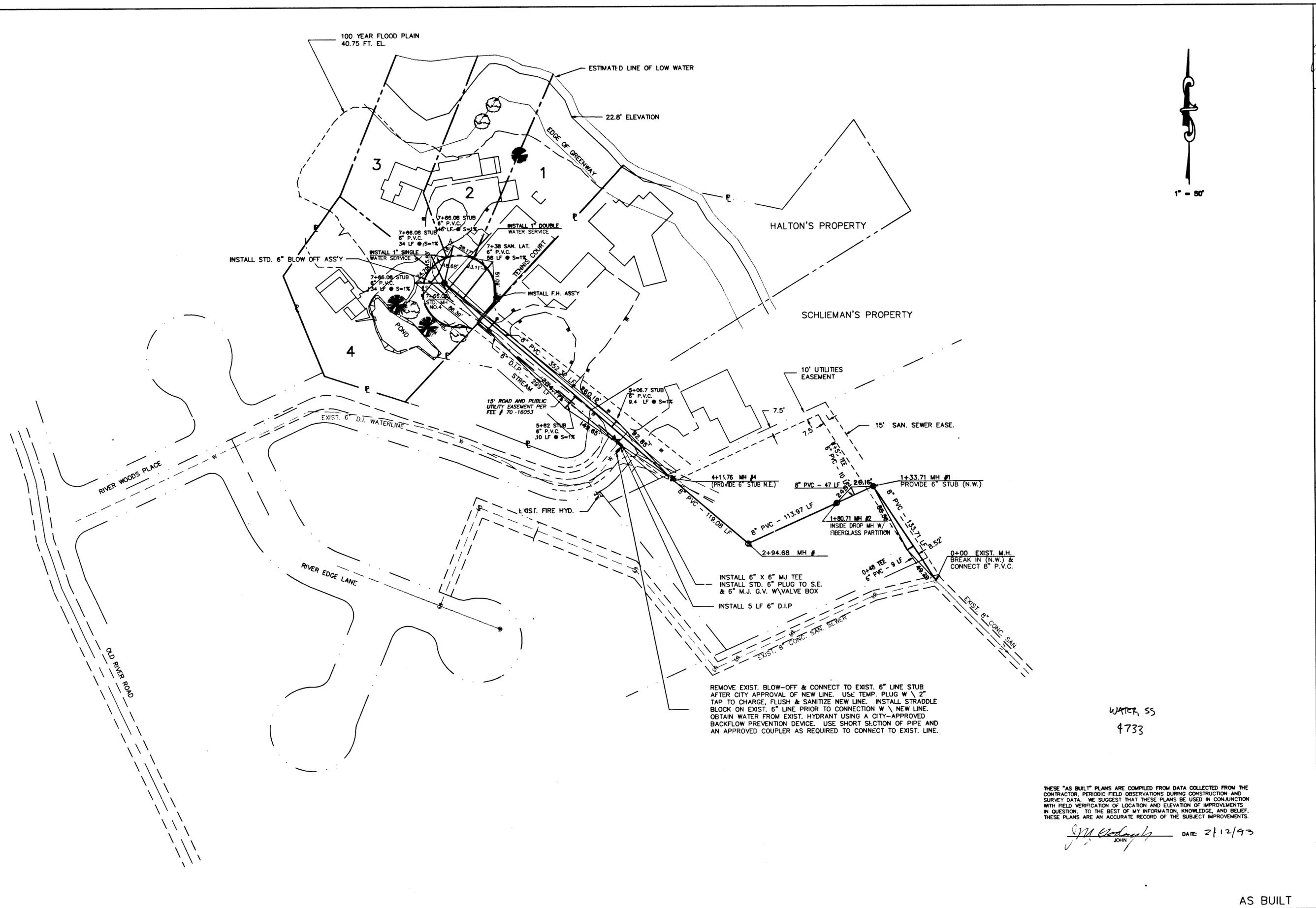
CONSULTING ENGINEERING SERVICES
 14780 S.W. OSPREY DRIVE, SUITE 395
 BEAVERTON, OR 97007 (503) 448-6061



| | | | |
|---------------------|------------------------|--|----------------------------------|
| PROJECT NO. 90-578 | DATE: OCTOBER 30, 1990 | REVISIONS | REVISED CUL-DE-SAC LOCATION, LOT |
| DESIGNED BY: J.R.O. | DRAWN BY: J.R.O. | #4 GRADING, SWALE LOCATION & STORM SEWER LOCATION, ADDED | |
| | | CABION WALLS: 6-10-91 | |
| | | REVISED TO REFLECT THE INTERIM CONSTRUCTION PRIOR TO REMOVAL OF THE HOUSE ON LOT 4 4-12-92 | |

PLAN
STREET & STORM SEWER

3
6



WILLAMETTE SHORES ESTATES
TAX LOT 400 (2-1E-14AD)

CONSULTING ENGINEERING SERVICES
 14780 S.W. OSPREY DRIVE, SUITE 395
 BEAVERTON, OR 97007 (503) 646-4509

| | |
|-----------|--|
| REVISIONS | REVISED CUL-DE-SAC, SEWER, LATERAL & WATER METER LOCATIONS. 6-10-91 |
| | REVISED SEWER AND WATER LOCATION TO CONFORM WITH FIELD CHANGES 3-20-92 |
| | AS-BUILTS, REVISED STUB LOCATION AT 5+08.7. 11-24-92 |

DATE: OCTOBER 30, 1990
 DRAWN BY: J.R.O.
 PROJECT NO. 90-379
 DESIGNED BY: J.R.O.

**PLAN
 SANITARY SEWER
 & WATER SYSTEM**

SHEET
4
6



REMOVE EXIST. BLOW-OFF & CONNECT TO EXIST. 6" LINE STUB AFTER CITY APPROVAL OF NEW LINE. USE TEMP. PLUG W/ 2" TAP TO CHARGE, FLUSH & SANITIZE NEW LINE. INSTALL STRADDLE BLOCK ON EXIST. 6" LINE PRIOR TO CONNECTION W/ NEW LINE. OBTAIN WATER FROM EXIST. HYDRANT USING A CITY-APPROVED BACKFLOW PREVENTION DEVICE. USE SHORT SECTION OF PIPE AND AN APPROVED COUPLER AS REQUIRED TO CONNECT TO EXIST. LINE.

WATER, SS
 4733

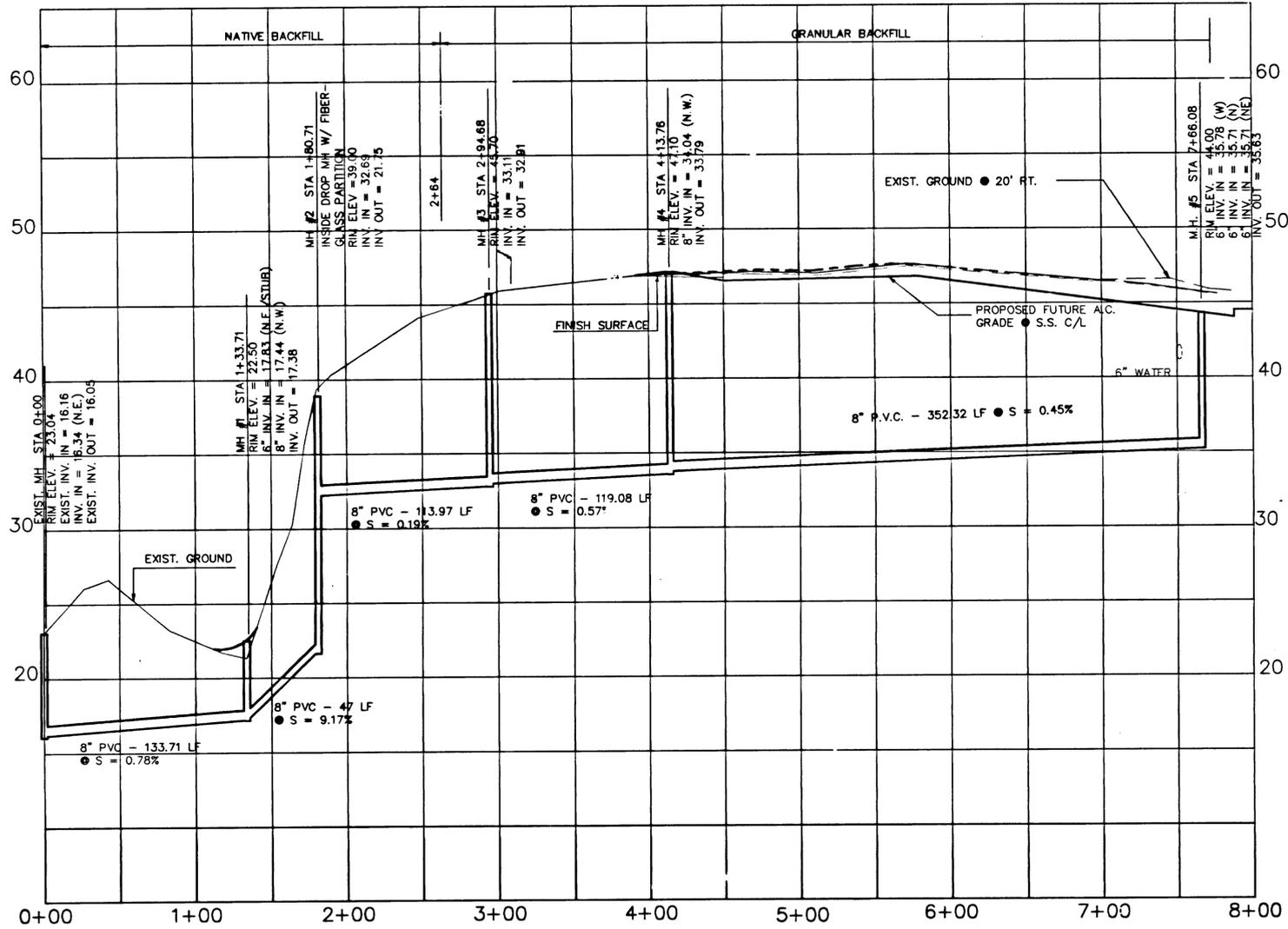
THESE "AS BUILT" PLANS ARE COMPILED FROM DATA COLLECTED FROM THE CONTRACTOR, PERIODIC FIELD OBSERVATIONS DURING CONSTRUCTION AND SURVEY DATA. WE SUGGEST THAT THESE PLANS BE USED IN CONJUNCTION WITH FIELD VERIFICATION OF LOCATION AND ELEVATION OF IMPROVEMENTS IN QUESTION. TO THE BEST OF MY INFORMATION, KNOWLEDGE, AND BELIEF, THESE PLANS ARE AN ACCURATE RECORD OF THE SUBJECT IMPROVEMENTS.

John M. Goosy
 JOHN DATE: 2/12/93

AS BUILT

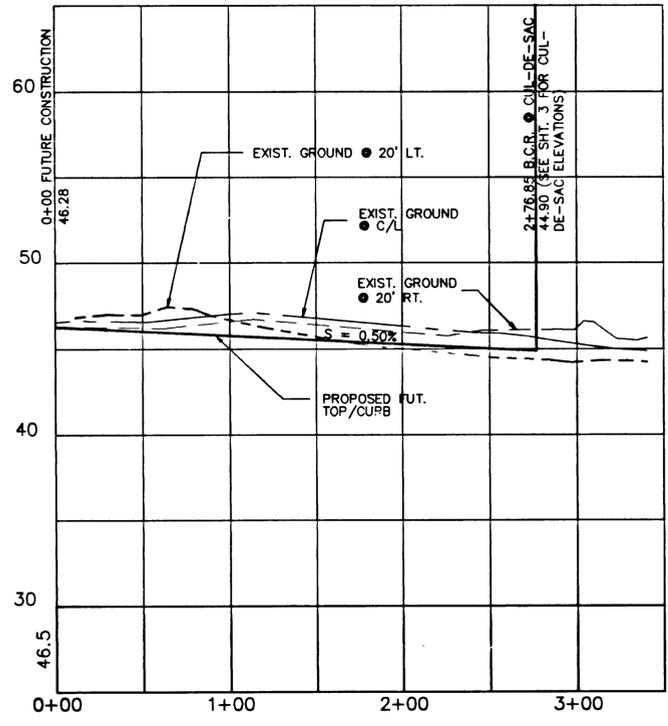
THESE "AS BUILT" PLANS ARE COMPILED FROM DATA COLLECTED FROM THE CONTRACTOR, PERIODIC FIELD OBSERVATIONS DURING CONSTRUCTION AND SURVEY DATA. WE SUGGEST THAT THESE PLANS BE USED IN CONJUNCTION WITH FIELD VERIFICATION OF LOCATION AND ELEVATION OF IMPROVEMENTS IN QUESTION. TO THE BEST OF MY INFORMATION, KNOWLEDGE, AND BELIEF, THESE PLANS ARE AN ACCURATE RECORD OF THE SUBJECT IMPROVEMENTS.

J. M. Johnson
DATE: 11/25/92



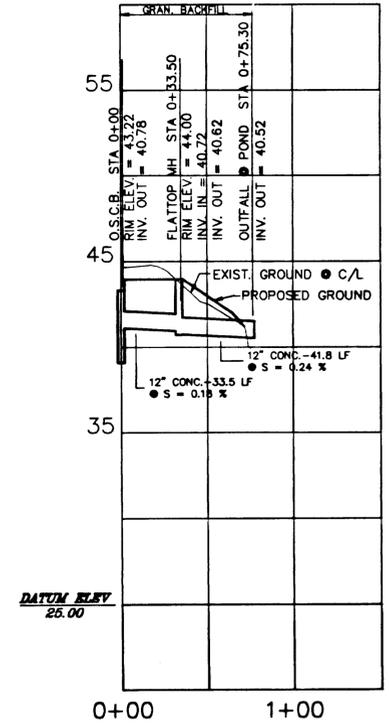
PROFILE - SANITARY SEWER

1" HORIZ. = 50'
1" VERT. = 5'



PROFILE - PRIVATE DRIVE

1" HORIZ. = 50'
1" VERT. = 5'



PROFILE - STORM SEWER

1" HORIZ. = 50'
1" VERT. = 5'

AS BUILT



WILLAMETTE SHORES ESTATES
TAX LOT 400 (2-1E-14AD)

CONSULTING ENGINEERING SERVICES
14780 S.W. OSPREY DRIVE, SUITE 385
BEAVERTON, OR 97007 (503) 648-4509



| | | |
|-----------|--|---------|
| REVISIONS | REVISED STORM SEWER PROFILE | 8-10-91 |
| | REVISED TO REFLECT CHANGES TO SANITARY SEWER | |
| | LINE 4-3-92 | |
| | AS-BUILTS INFORMATION 11-24-92 | |

| | | | |
|-------------|--------|----------|---------------|
| PROJECT NO. | 90-379 | DATE | OCT. 30, 1990 |
| DESIGNED BY | J.R.C. | DRAWN BY | J.R.C. |

PROFILES

5
6

