

MILL CREEK "23"

CITY OF MILL CREEK, WASHINGTON

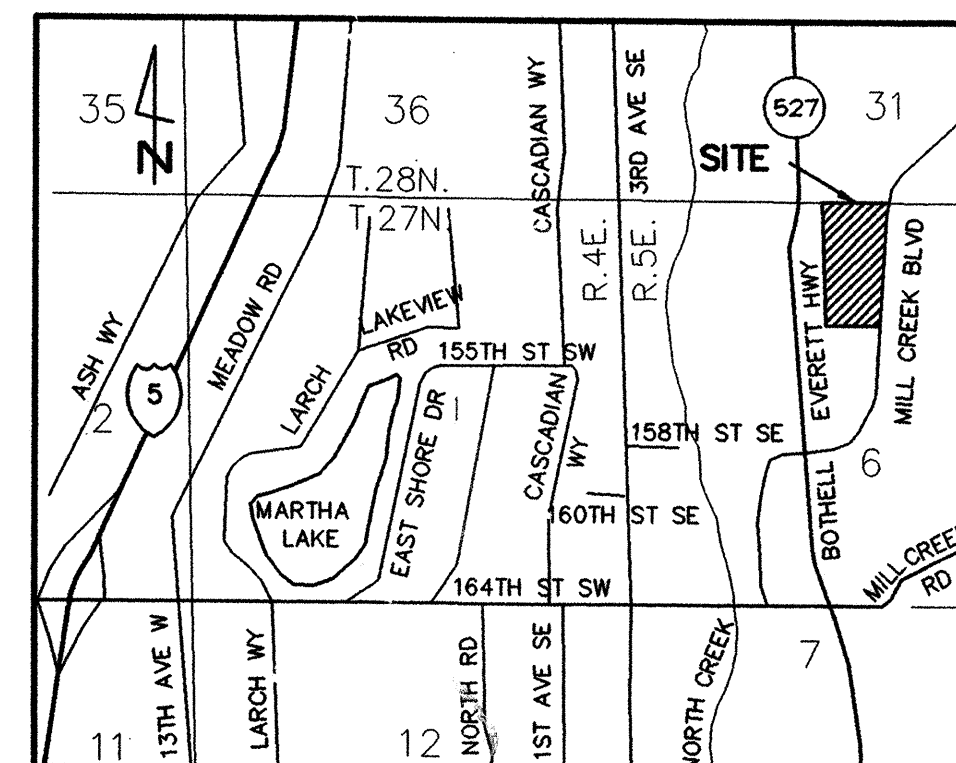
NW 1/4, NE1/4, SEC. 6, TWP. 27 N., RGE. 5 E., W.M.

LEGAL DESCRIPTION

TRACT 1 AND 2 OF MILL CREEK -21, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 63 OF PLATS, PAGES 222 AND 223, AUDITOR'S FILE NO. 9705015002 RECORDS OF SNOHOMISH COUNTY, WASHINGTON.

EXCEPT THAT PORTION OF SAID TRACT 2, MILL CREEK - 21 DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF SAID TRACT 2, THENCE SOUTH 26°38'52" WEST ALONG THE EASTERLY LINE OF SAID TRACT 2, A DISTANCE OF 130.00 FEET, THENCE NORTH 63°21'08" WEST A DISTANCE OF 140.00 FEET; THENCE NORTH 26°38'52" EAST A DISTANCE OF 20.00 FEET; THENCE NORTH 63°21'08" WEST A DISTANCE OF 95.99 FEET TO THE NORTH LINE OF SAID TRACT 2, THENCE SOUTH 88°20'37" EAST ALONG SAID NORTH LINE A DISTANCE OF 260.36 FEET TO THE POINT OF BEGINNING.



VICINITY MAP
NO SCALE

DATUM: CITY OF MILL CREEK MEAN SEA LEVEL
DATUM, ALSO USC&GS MSL DATUM.
BENCH: TOP OF PUNCH MARK IN BRASS DISK @ P.C.
MON. JUST SOUTH OF INTERSECTION MON. &
MILL CREEK BLVD. AND 152ND PL. S.E.,
ELEVATION = 365.20', CITY OF MILL CREEK
MEAN SEA LEVEL.

ORIGINAL MILL CREEK "23" SITE PLAN PREPARED BY:

MITHLIN PARTNERS
414 OLIVE WAY SUITE 500
SEATTLE, WA 98101

(MINOR MODIFICATIONS BY GROUP FOUR, INC.)

MILL CREEK "23" TOPOGRAPHY PREPARED BY:

W & H PACIFIC
198-112TH AVE. NE
P.O. BOX C-97304
BELLEVUE, WA 98009-7730

POND "Q" TOPOGRAPHY OBTAINED BY:

W & H PACIFIC
"OFF-SITE STORM DRAINAGE POND "Q" PLAN",
HAVING AND ENGINEERING SEAL DATED 6-23-99

GROUP FOUR, INC.
SUPPLEMENTED THIS TOPOG. BY THE WETPOND
AND DISCHARGE STRUCTURE

PROJECT INFORMATION

OWNER/DEVELOPER

UNITED DEVELOPEMENT CORPORATION
15714 COUNTRY CLUB DRIVE
MILL CREEK, WA 98012
PHONE: (425) 743-6136
CONTACT: TONY LEDVINA

SURVEYOR/ENGINEER

GROUP FOUR, INC.
16030 JUANITA-WOODINVILLE WAY NE
BOTHELL, WA. 98011
PHONE: (425)775-4581 OR (206)362-4244
PROJ. MGR.: JOHN MIRANTE

SEWER

ALDERWOOD SEWER AND WATER
PHONE: (206)743-4605

WATER

ALDERWOOD SEWER AND WATER
PHONE: (206)743-4605

POWER

SNOHOMISH COUNTY P.U.D.
PHONE: (800)562-9142

NATURAL GAS

PUGET SOUND ENERGY
PHONE: (425)454-2000

PHONE

G. T. E.
PHONE: (206)710-4126

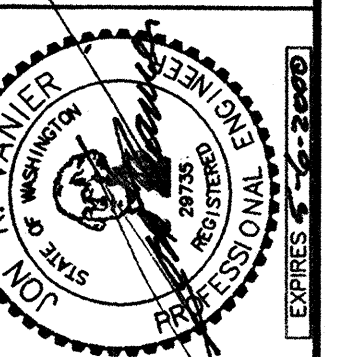
SHEET INDEX

- C1. COVER SHEET
- C2. CLEARING, GRADING AND T.E.S.C.
AND TREE RETENTION PLAN
- C3. CLEARING, GRADING AND T.E.S.C. NOTES & DETAILS
- C4. ROADWAY AND DRAINAGE PLAN
- C5. ROADWAY AND DRAINAGE PROFILES
- C6. DETENTION/WATER QUALITY FACILITY PLAN & DETAILS
- C7. ROADWAY AND DRAINAGE NOTES & DETAILS
- C8. CHANNELIZATION PLAN

REVIEWED AND DETERMINED TO BE IN COMPLIANCE
WITH THE CONDITIONS OF APPROVAL OF PRELIMINARY
PLAT 98-52 AS APPROVED BY THE CITY COUNCIL.
William D. Simon 12.1.99
COMMUNITY DEVELOPMENT DIRECTOR DATE

CITY OF MILL CREEK
ACCEPTED FOR CONSTRUCTION
Greg Stoph 1/1/99
CITY ENGINEER DATE

CALL 48 HOURS
BEFORE YOU DIG
1-800-424-5555



GROUP FOUR, Inc.
16030 JUANITA-WOODINVILLE WAY NE
BOTHELL, WASHINGTON 98011
(425)775-4581 • (206)362-4244 • FAX (206)362-3819
SURVEYING ENGINEERING PLANNING MANAGEMENT
DRAWN BY DATE: CHECKED BY DATE: APPROVED BY DATE:

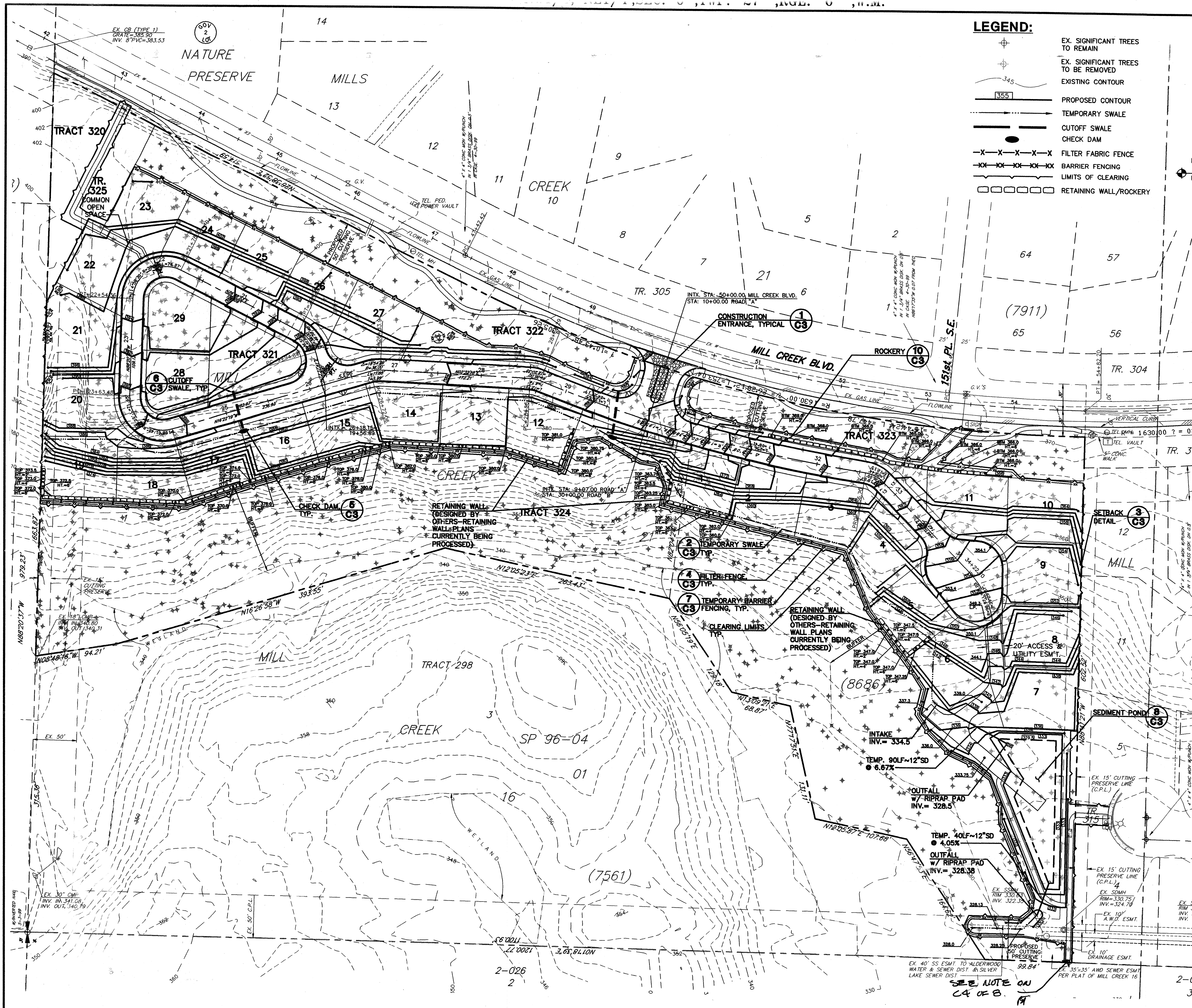
UNITED DEVELOPMENT CORPORATION
MILL CREEK "23"
COVER SHEET
CITY OF MILL CREEK WASHINGTON

SHT C1 OF 8
JOB NO: 98-8006

AS-BUILT

MAGNOLIA

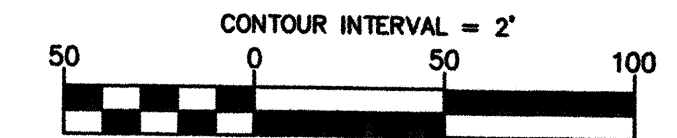
HDEV-2431



LEGEND:

- EX. SIGNIFICANT TREES TO REMAIN
- EX. SIGNIFICANT TREES TO BE REMOVED
- EXISTING CONTOUR
- PROPOSED CONTOUR
- TEMPORARY SWALE
- CUTOFF SWALE
- CHECK DAM
- FILTER FABRIC FENCE
- BARRIER FENCING
- LIMITS OF CLEARING
- RETAINING WALL/ROCKERY

SCALE: 1" = 50'



DATUM: CITY OF MILL CREEK MEAN SEA LEVEL DATUM, ALSO USC&GS MSL DATUM.
BENCH: TOP OF PUNCH MARK IN BRASS DISK @ P.C. MON. JUST SOUTH OF INTERSECTION MON. & MILL CREEK BLVD. AND 152ND PL. S.E. ELEVATION = 365.20', CITY OF MILL CREEK MEAN SEA LEVEL.

ORIGINAL SITE PLAN PREPARED BY:
MITHLIN PARTNERS
414 OLIVE WAY SUITE 500
SEATTLE, WA 98101
(MINOR MODIFICATIONS BY GROUP FOUR, INC.)
TOPOGRAPHY PREPARED BY:
W & H PACIFIC
198-112TH AVE. NE
P.O. BOX C-97304
BELLEVUE, WA 98009-7730

NOTES:

- ALL CONTOURS AND SPOT SHOTS REPRESENT FINISH GRADE ELEVATIONS.
- ALL WORK SHALL COMPLY WITH THE AUGUST 3, 1998 GEOTECHNICAL REPORT PREPARED BY TERRA ASSOCIATES.
- GRADING DEPICTED AS PART OF THIS PLAN REPRESENTS MASS GRADING NECESSARY FOR ROAD AND UTILITY INSTALLATION. IT IS INTENDED THAT FINE TUNE LOT GRADING (ADDITIONAL ROCKERIES, ETC.) WILL OCCUR DURING THE BUILDING PERMIT STAGE FOR EACH LOT.
- DUST SHALL BE CONTROLLED BY WATERING AREAS OF SOIL DISTURBANCE DURING CONSTRUCTION.
- THE EXACT LOCATION OF CLEARING LIMITS AND BARRIER FENCE SHALL BE COORDINATED WITH THE CITY AT THE TIME OF CONSTRUCTION STAKING.
- TREES SAVED WITHIN THE SIDEWALK PRISM, ADJACENT TO MILL CREEK BLVD., SHALL BE SAVED AT THE DISCRETION OF THE CITY IN COORDINATION WITH THE DEVELOPER. TREES TO BE SAVED SHALL BE CLEARLY MARKED AS SUCH PRIOR TO CLEARING ACTIVITIES.

EARTHWORK QUANTITIES

METHOD: COMPOSITE
CUT: 18,208 C.Y.
FILL: 11,398 C.Y.

NOTES:

- RAW VOLUMES ARE CALCULATED AFTER THE EXISTING TERRAIN HAS BEEN STRIPPED, THUS CREATING LESS CUT AND MORE FILL OF SUITABLE MATERIAL.
- RAW VOLUMES HAVE NOT BEEN ADJUSTED TO REFLECT SHRINK OR SWELL FOR COMPACTION & EXPANSION AND ARE VOLUMETRIC AREAS ONLY.
- A STRIPPING DEPTH OF 0" WAS APPLIED TO THE EXISTING TERRAIN.
- THE ABOVE QUANTITIES ARE ESTIMATES ONLY AND ARE LISTED SOLELY FOR PERMITTING PURPOSES. THEY ARE NOT TO BE USED FOR BIDDING PURPOSES.

CALL 48 HOURS BEFORE YOU DIG
1-800-424-5555

REVIEWED AND DETERMINED TO BE IN COMPLIANCE WITH THE CONDITIONS OF APPROVAL OF PRELIMINARY PLAT 98-52 AS APPROVED BY THE CITY COUNCIL.

William [Signature] 12-1-99
COMMUNITY DEVELOPMENT DIRECTOR DATE

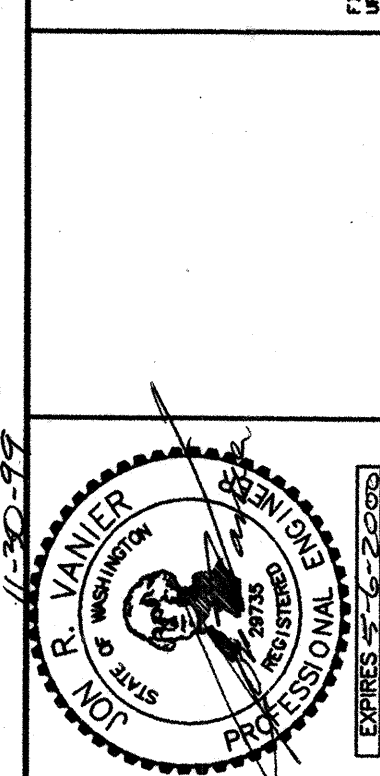
CITY OF MILL CREEK
ACCEPTED FOR CONSTRUCTION

City Engineer [Signature] 7/1/99
DATE

UNITED DEVELOPMENT CORPORATION
MILL CREEK "23"
CLEARING, GRADING AND T.E.S.C.
AND TREE RETENTION PLAN
OF MILL CREEK

GROUP FOUR, Inc.
16030 JUANITA-WOODVILLE WAY NE
BOOTHILL WASHINGTON 98011
(206) 362-4244 • FAX (206) 362-3819
(425) 775-4681
SURVEYING ENGINEERING PLANNING MANAGEMENT
DRAWN BY: ABC CHECKED BY: DATE:
DATE: 6/18/99

BY: ABC
DATE: 10/19/99
REVISIONS PER CITY COMMENTS
1. 11/29/99
2.



AS-BUILT

MAGNOLIA

HDEV-2431

SITE GRADING AND T.E.S.C. NOTES

- NON COMPLIANCE WITH THE EROSION CONTROL REQUIREMENTS, WATER QUALITY REQUIREMENTS AND CLEARING LIMITS VIOLATIONS MAY RESULT IN REVOCATION OF PROJECT PERMITS, PLAN APPROVAL AND BOND FORECLOSURES.
- PRIOR TO ANY SITE CONSTRUCTION TO INCLUDE CLEARING/LOGGING OR GRADING THE SITE/LOT CLEARING LIMITS SHALL BE LOCATED AND FIELD IDENTIFIED BY THE PROJECT SURVEYOR/ENGINEER WITH COORDINATION WITH THE CITY AND DEVELOPER. AS REQUIRED BY THESE PLANS. THE PROJECT SURVEYOR/ENGINEER'S NAME AND TELEPHONE NUMBER ARE: GROUP FOUR, INC 775-4581.
- PRIOR TO ANY SITE WORK, THE CONTRACTOR SHALL CONTACT THE CITY OF MILL CREEK AT (425) 745-1891 TO SCHEDULE A PRECONSTRUCTION CONFERENCE. DUE TO FIELD CHANGES (REVISIONS), ENGINEERED AS-BUILTS SHALL BE REQUIRED PRIOR TO SITE APPROVAL.
- THE TEMPORARY EROSION/SEDIMENTATION CONTROL FACILITY SHALL BE CONSTRUCTED PRIOR TO ANY GRADING OR EXTENSIVE LAND CLEARING IN ACCORDANCE WITH THE APPROVED TEMPORARY EROSION/SEDIMENTATION CONTROL PLAN. THESE FACILITIES MUST BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION AND LANDSCAPING IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED.
- ALL SITE WORK MUST COMPLY TO CHAPTER 70 OF THE UNIFORM BUILDING CODE. (LATEST EDITION). ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE 1991 STATE OF WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION (WSDOT/APWA).
- ALL EARTH WORK SHALL BE PERFORMED IN ACCORDANCE WITH CITY STANDARDS.
- IF CUT AND FILL SLOPES EXCEED A MAXIMUM OF TWO FEET HORIZONTAL TO ONE FOOT VERTICAL, A ROCK OR CONCRETE RETAINING WALL MAY BE REQUIRED. ALL ROCK RETAINING WALLS GREATER THAN FOUR (4) FEET IN HEIGHT REQUIRE BUILDING PERMITS, AND ARE TO FOLLOW CITY SPECIFICATIONS AND TO BE DESIGNED AND CERTIFIED BY A CIVIL ENGINEER EXPERIENCED IN SOIL MECHANICS.
- STOCKPILES ARE TO BE LOCATED IN SAFE AREAS AND ADEQUATELY PROTECTED BY TEMPORARY SEEDING, MULCHING AND FILTER FENCE. HYDROSEEDING IS PREFERRED.
- ALL STRUCTURAL FILLS SHALL BE COMPACTED TO A MINIMUM OF 90% OF MAXIMUM DENSITY BY MODIFIED PROCTOR TEST IN ACCORDANCE WITH ACCEPTED GEOTECHNICAL REPORT FOR THE SITE.
- THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS.
- THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS.
- THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
- ANY AREA STRIPPED OF VEGETATION, INCLUDING ROADWAY EMBANKMENTS, WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF 15 DAYS, SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G. SEEDING, MULCHING, NETTING EROSION BLANKETS, ETC.).
- THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 24 HOURS FOLLOWING A STORM EVENT.

STANDPIPE AND SEDIMENT POND MAINTENANCE

- THE EMBANKMENT OF THE BASIN SHOULD BE CHECKED REGULARLY TO INSURE THAT IT IS STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT. THE EMERGENCY SPILLWAY SHOULD BE CHECKED REGULARLY TO INSURE THAT ITS LINING IS WELL ESTABLISHED AND EROSION-RESISTANT. THE SEDIMENT BASIN SHOULD BE CHECKED AFTER EACH RUNOFF-PRODUCING RAINFALL FOR SEDIMENT CLEAN OUT. WHEN THE SEDIMENT REACHES THE CLEAN OUT LEVEL, IT SHALL BE REMOVED AND PROPERLY DISPOSED OF.

SILTATION BARRIERS

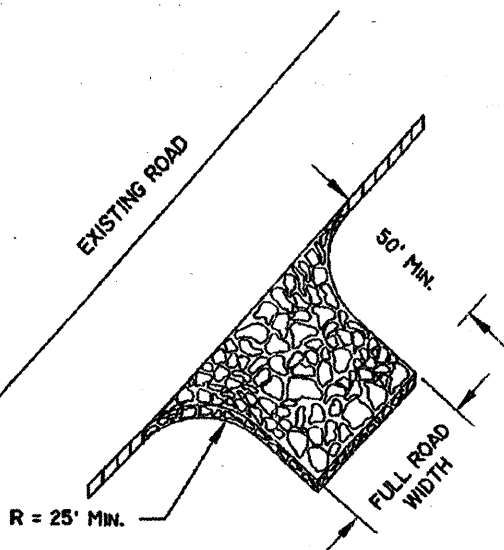
- SILTATION BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTS OF BALES. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY. SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED TO THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER A BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO EXISTING GRADE, PREPARED AND SEEDING.

HYDROSEEDING GENERAL NOTES

- CONSTRUCTION ACCEPTANCE: WILL BE SUBJECT TO A WELL ESTABLISHED GROUND COVER THAT FULFILLS THE REQUIREMENT OF THE APPROVED CONSTRUCTION PLANS.
- ALL DISTURBED AREAS SUCH AS RETENTION FACILITIES, ROADWAY BACK-SLOPES, ETC. SHALL BE SEEDING WITH A PERENNIAL GROUND COVER GRASS TO MINIMIZE EROSION. GRASS SEEDING WILL BE DONE USING AN APPROVED HYDROSEEDER OR AS OTHERWISE APPROVED BY THE CITY OF MILL CREEK.
- PREPARATION OF SURFACE: ALL AREAS TO BE SEEDING SHALL BE CULTIVATED TO THE SATISFACTION OF THE CITY INSPECTOR. THIS MAY BE ACCOMPLISHED BY DISCING, RAKING, HARROWING OR OTHER ACCEPTABLE MEANS.
- IMMEDIATELY FOLLOWING FINISH GRADING, PERMANENT VEGETATION (CONSISTING OF RAPID, PERSISTENT AND LEGUME) WILL BE APPLIED. (MINIMUM OF 80 POUNDS PER ACRE). THIS IS TO INCLUDE THE FOLLOWING: 20% ANNUAL, PERENNIAL OR HYBRID RYE GRASS, 40% CREEPING RED FESCUE, 40% WHITE CLOVER. HYDROSEED REQUIRED.
- FERTILIZER: SHALL BE APPLIED AT 400 POUNDS PER ACRE OF 10-20-20 (10 POUNDS PER 1100 SQUARE FEET) OR EQUIVALENT.

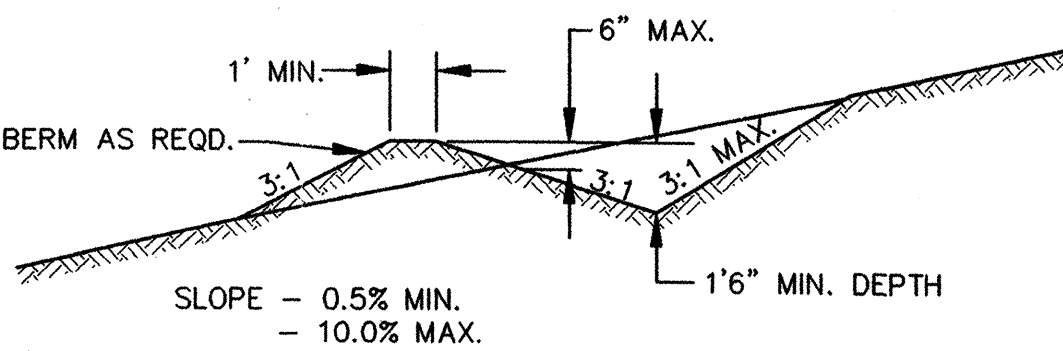
CONSTRUCTION SEQUENCE

- ATTEND PRE-CONSTRUCTION MEETING WITH THE CITY. THIS MEETING SHALL INCLUDE THE EXCAVATION CONTRACTOR.
- FLAG CLEARING LIMITS. CALL CITY FOR INSPECTION & APPROVAL. THE CITY AND DEVELOPER SHALL WORK TOGETHER TO SET THE EXACT LOCATION OF THE CLEARING LIMITS.
- PROVIDE CB PROTECTION. SEE DETAIL 8, THIS SHEET.
- INSTALL FILTER FENCE AND BARRIER FENCE.
- INSTALL ROCKED CONSTRUCTION ENTRANCE.
- CLEAR FOR AND INSTALL SEDIMENT POND AND APPURTENANCES.
- CLEAR AND GRUB SITE TO LIMITS OF CLEARING.
- ROUGH GRADE SITE.
- INSTALL TEMPORARY SWALES/CHECK DAMS/CUTOFF SWALES, ETC. SIMULTANEOUSLY WITH CLEARING AND GRADING FOR PROJECT DEVELOPMENT.
- INSTALL UTILITIES (POWER, STORM, SANITARY, ETC.).
- FINAL GRADE/PAVE, MAINTAIN CB PROTECTION.
- CLEAN/VACUUM STORM DRAINAGE SYSTEM (I.E., CLEAN OUT & TEST SYSTEM).
- REMOVE ALL TESOP FACILITIES ONLY WHEN ENTIRE SITE IS STABILIZED.

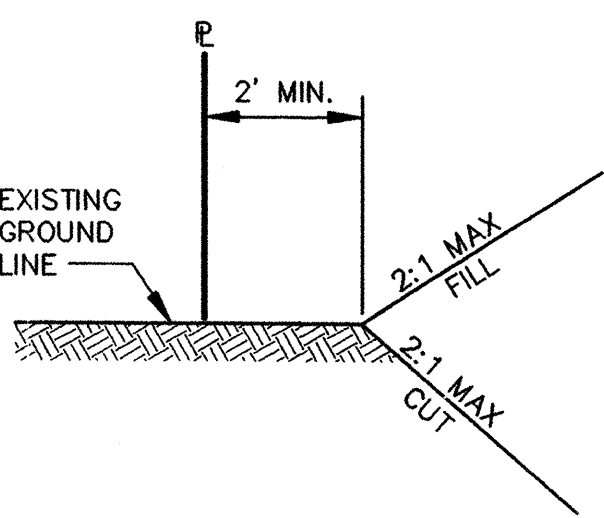


- NOTES:
- INSTALLATION: THE AREA OF THE ENTRANCE SHOULD BE CLEARED OF ALL VEGETATION, ROOTS AND OTHER OBSTACLES. THE GRAVEL SHALL BE PLACED TO THE SPECIFIED DIMENSIONS. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHOULD BE CONSTRUCTED ACCORDING TO SPECIFICATIONS IN THE PLAN. IF WASH RACKS ARE USED, THEY SHOULD BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
 - AGGREGATE: 4" TO 6" CRUSHED BALLAST ROCK.
 - ENTRANCE DIMENSIONS: THE AGGREGATE LAYER MUST BE AT LEAST 6" THICK. IT MUST EXTEND THE FULL WIDTH OF THE VEHICULAR HIGHWAY AND EGRESS AREA. THE LENGTH OF THE ENTRANCE MUST BE AT LEAST 50'.
 - WASHING: IF CONDITIONS OF THE SITE ARE SUCH THAT MOST OF THE MUD IS NOT REMOVED FROM VEHICLE TIRES BY CONTACT WITH THE GRAVEL, THEN THE TIRES MUST BE WASHED BEFORE VEHICLES ENTER A PUBLIC ROAD. WASH WATER MUST BE CARRIED AWAY FROM THE ENTRANCE TO A SETTLING AREA TO REMOVE SEDIMENT. A WASH RACK MAY ALSO BE USED TO MAKE WASHING MORE CONVENIENT AND EFFECTIVE.
 - MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD TO PUBLIC HIGHWAY-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2-INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAY OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

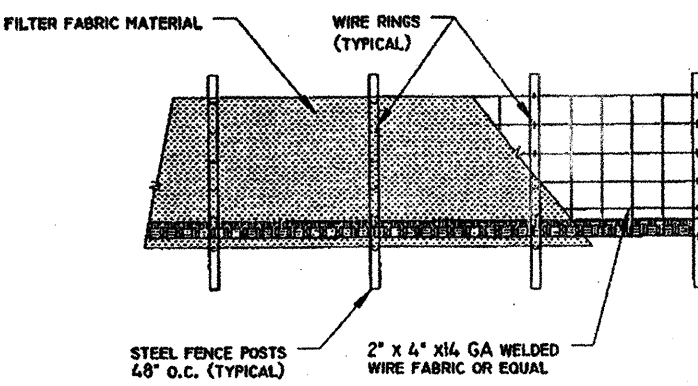
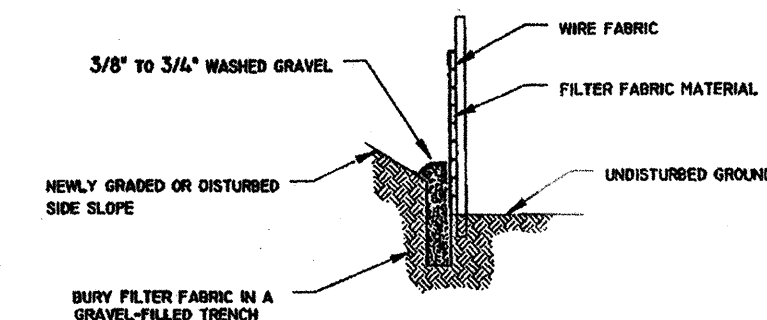
1 GRAVEL CONSTRUCTION ENTRANCE
CITY OF MILL CREEK STD. PLAN STR61 NO SCALE



2 TEMPORARY SWALE SECTION
NO SCALE

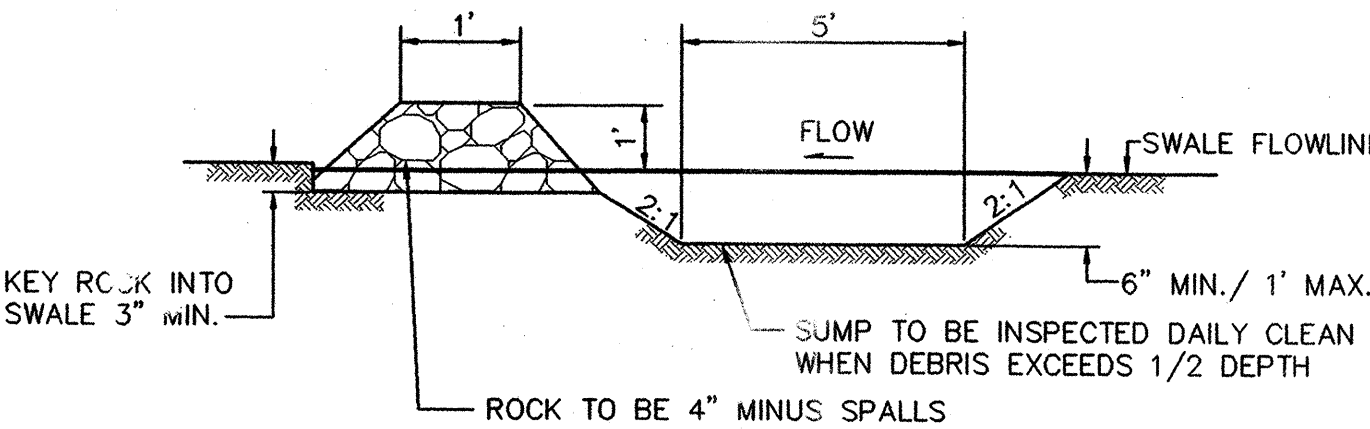
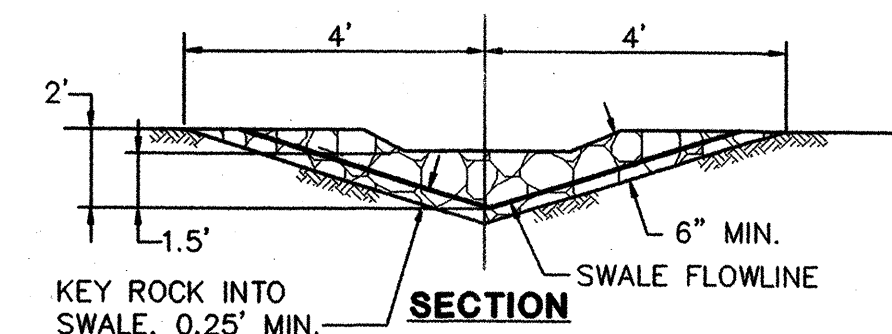


3 GRADING SETBACK DETAIL
NO SCALE

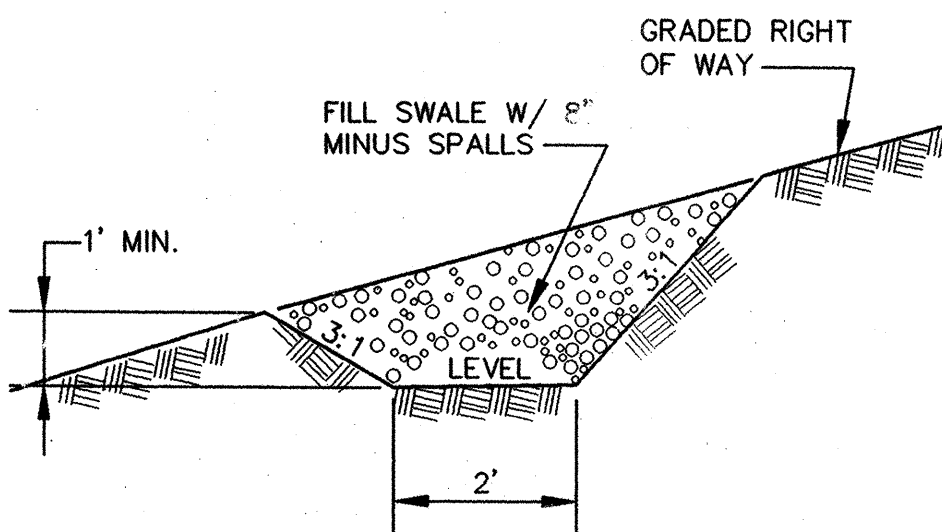


MAINTENANCE OF SILTATION BARRIERS
1. SILTATION BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.

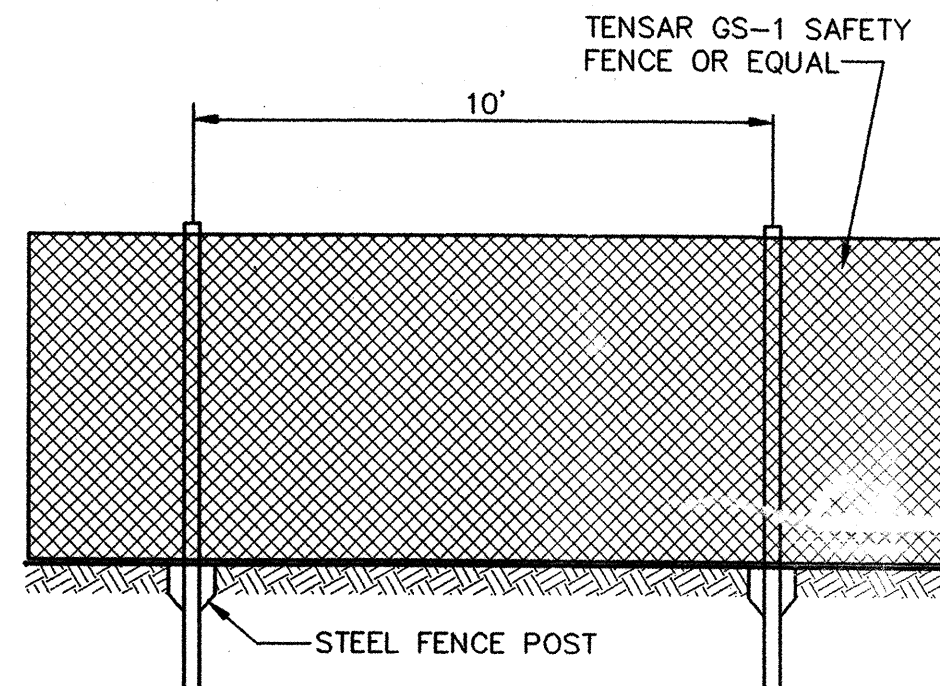
4 FILTER FENCE DETAIL
CITY OF MILL CREEK STD. PLAN STM14 NO SCALE



5 CHECK DAM DETAIL
NO SCALE

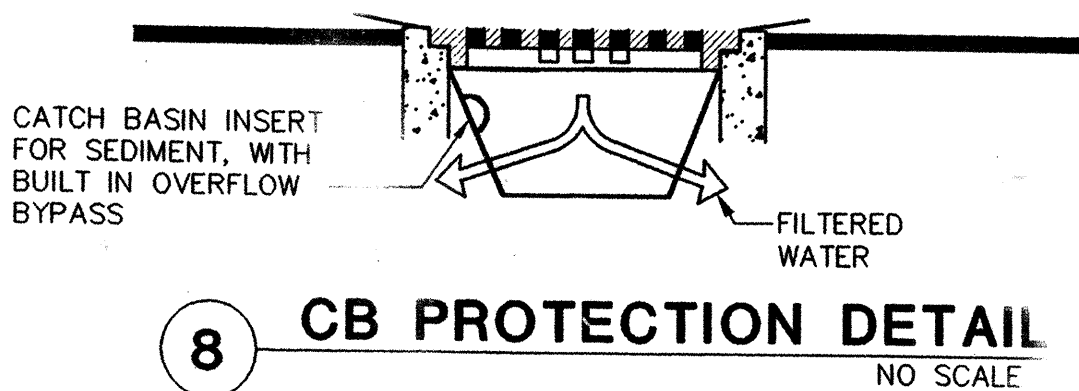


6 CUTOFF SWALE SECTION
NO SCALE

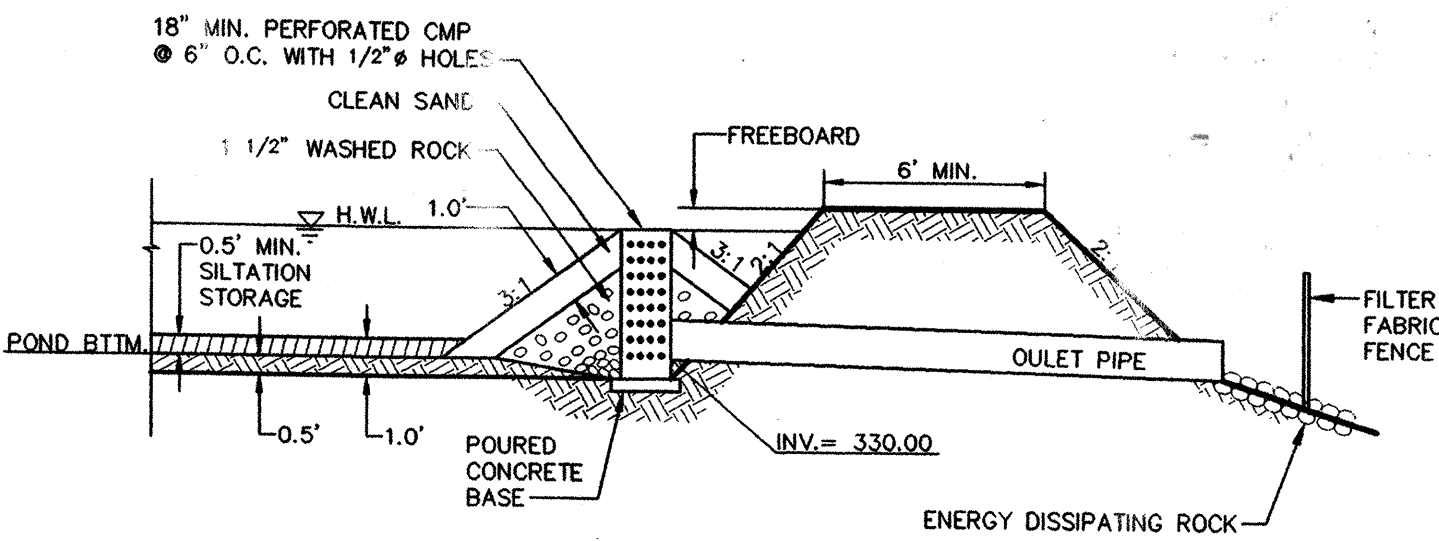


- NOTES:
- WIRE FENCE TO STEEL FENCE POST.

7 TEMPORARY BARRIER FENCE DETAIL
NO SCALE



8 CB PROTECTION DETAIL
NO SCALE



SEDIMENT POND DATA TABLE	
TOP OF POND= 333.00	BOTTOM WIDTH= 59'
H.W.L.= 332.00	BOTTOM LENGTH= 150'
POND BOTTOM= 329.50	TOP WIDTH= 73'
SIDE SLOPES= 2:1	TOP LENGTH= 164'
TOTAL DEPTH= 3.5'	

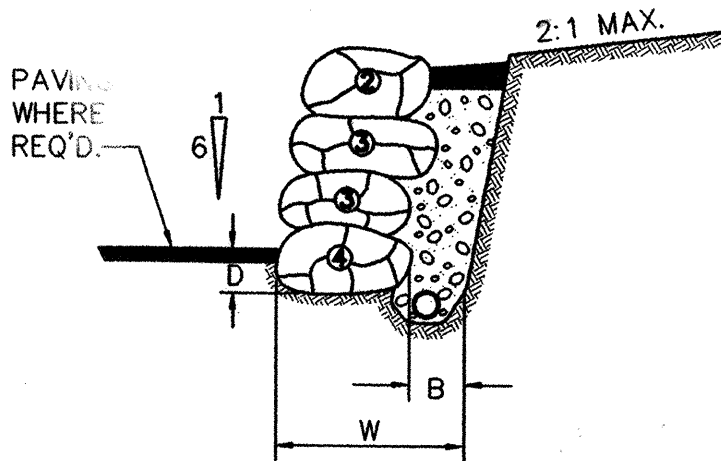
9 SEDIMENT POND DETAIL
NO SCALE

NOTES:

- MAXIMUM INCLINATION OF THE SLOPES ABOVE AND BEHIND ROCKERIES SHOULD BE 2:1 (HORIZONTAL-VERTICAL).
- MINIMUM THICKNESS OF ROCK FILTER LAYER B = 12 INCHES.
- MINIMUM EMBEDMENT D = 12 INCHES UNDISTURBED NATIVE SOIL OR COMPACTED FILL PLACED IN ACCORDANCE WITH GEOTECHNICAL REPORT RECOMMENDATIONS.
- ROCKERIES GREATER THAN 8 FEET IN HEIGHT TO BE INSTALLED UNDER PERIODIC OR FULL TIME OBSERVATION OF THE GEOTECHNICAL ENGINEER.
- ROCK SHALL BE PLACED TO GRADUALLY DECREASE IN SIZE WITH INCREASING WALL HEIGHT IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
- MINIMUM WIDTH OF KEYWAY EXCAVATION, W, SHALL EQUAL TO THE THICKNESS OF THE BASAL ROCK (AS DETERMINED BY THE GEOTECHNICAL ENGINEER'S DESIGN) PLUS B.
- THE LONG DIMENSION OF THE ROCKS SHALL EXTEND PERPENDICULAR TO THE ROCK FACE TO PROVIDE MAXIMUM STABILITY.
- ROCKS SHALL BE PLACED TO AVOID CONTINUOUS JOINT PLANES IN VERTICAL OR LATERAL DIRECTIONS. EACH ROCK SHALL BEAR ON TWO OR MORE ROCKS BELOW IT, WITH GOOD FLAT-TO-FLAT CONTACT.

LEGEND:

- 2 INCH TO 4 INCH QUARRY SPALLS FREE OF ORGANICS, WITH LESS THAN 6 PERCENT FINES (SILT AND CLAY PARTICLES PASSING THE NO. 200 MESH SIEVE).
- SURFACE SEAL: MAT CONSIST OF IMPERVIOUS SOIL OR A FINE FREE DRAINING GRANULAR MATERIAL, BOTH OVER FILTER FABRIC OR LEAN CONCRETE.
- UNDISTURBED FIRM NATIVE SOIL.
- DESIGNATES SIZE OF ROCK REQUIRED, I.E. 4 MAN.
- MINIMUM 4 INCH DIAMETER UNDERDRAIN PIPE CONFORMING TO SECTION 7-01 OF THE WSDOT/APWA SPECIFICATIONS. SUCH PIPE SHALL BE BEDDED ON AND SURROUNDED BY 2 INCHES TO 4 INCH QUARRY SPALLS AS DESCRIBED ABOVE.

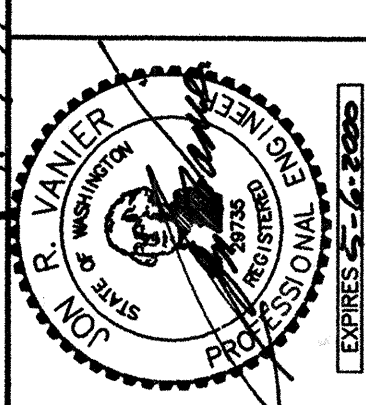


10 ROCKERY DETAIL
NATIVE CUT OVER 4' NO SCALE

CALL 48 HOURS
BEFORE YOU DIG
1-800-424-5555

REVIEWED AND DETERMINED TO BE IN COMPLIANCE
WITH THE CONDITIONS OF APPROVAL OF PRELIMINARY
PLAT 98-52 AS APPROVED BY THE CITY COUNCIL.
William A. Smith 12/1/99
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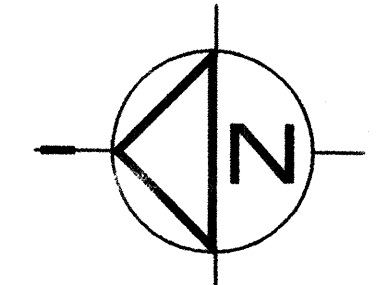
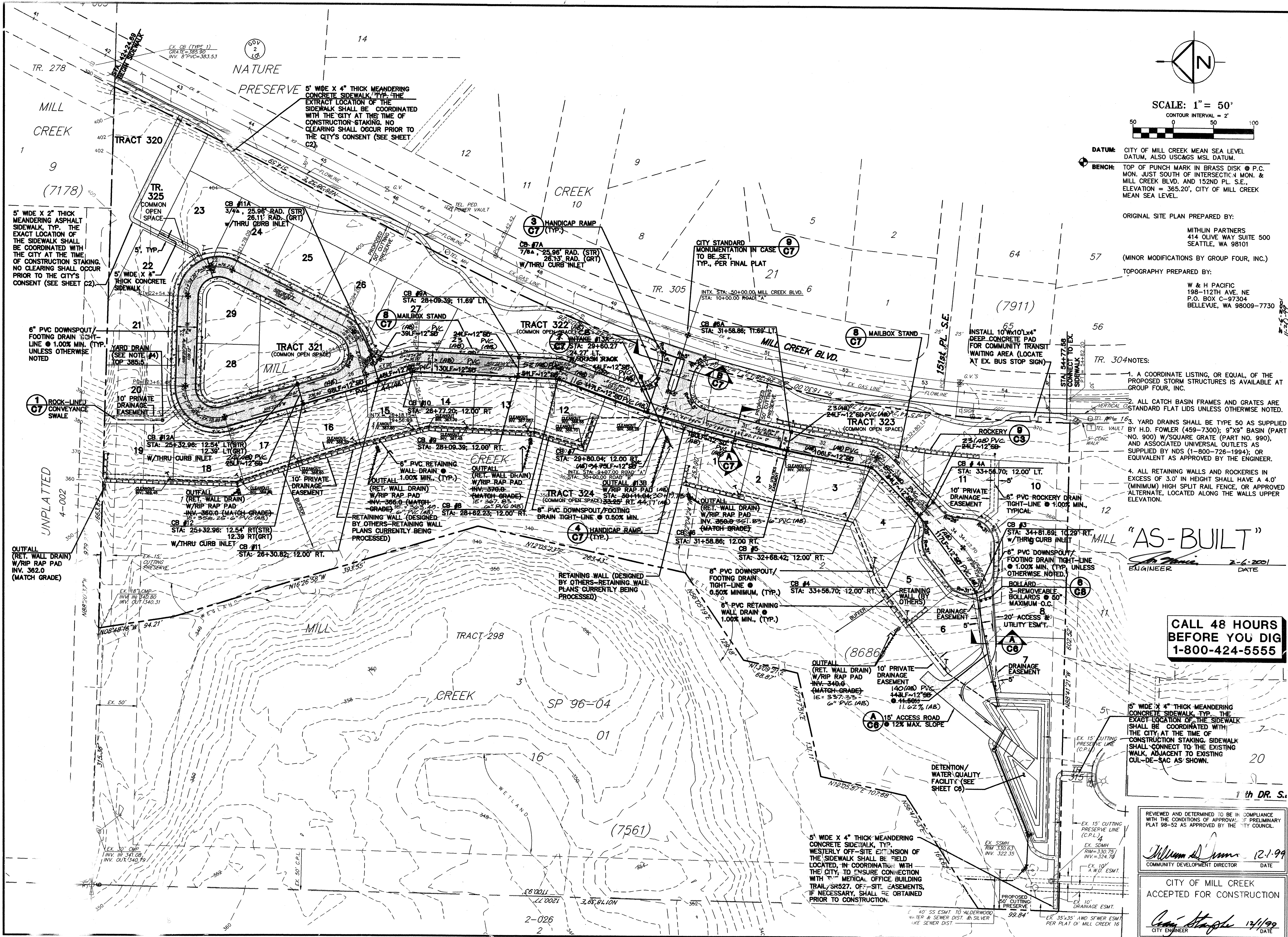
CITY OF MILL CREEK
ACCEPTED FOR CONSTRUCTION
Craig Stapher 12/1/99
CITY ENGINEER DATE



GROUP FOUR, Inc.
16030 JUANITA-WOODVILLE WAY NE
BOTHELL WASHINGTON 98011
(206) 362-4244 • FAX (206) 362-3819
(425) 745-4581
ENGINEERING PLANNING MANAGEMENT
CHECKED BY: DATE:
APPROVED BY: DATE:
DRA: DATE:

UNITED DEVELOPMENT CORPORATION
MILL CREEK "23"
CLEARING, GRADING, AND T.E.S.C.
AND DETAILS
CITY OF MILL CREEK WASHINGTON

SHT C3 OF 8
JOB NO: 98-09



SCALE: 1" = 50'
CONTOUR INTERVAL = 2'

DATUM: CITY OF MILL CREEK MEAN SEA LEVEL DATUM, ALSO US&GS MSL DATUM.
BENCH: TOP OF PUNCH MARK IN BRASS DISK @ P.C. MON. JUST SOUTH OF INTERSECTION MON. & MILL CREEK BLVD. AND 152ND PL. S.E. ELEVATION = 365.20', CITY OF MILL CREEK MEAN SEA LEVEL.

ORIGINAL SITE PLAN PREPARED BY:
WITHLIN PARTNERS
414 OLIVE WAY SUITE 500
SEATTLE, WA 98101
(MINOR MODIFICATIONS BY GROUP FOUR, INC.)
TOPOGRAPHY PREPARED BY:
W & H PACIFIC
198-112TH AVE. NE
P.O. BOX C-97304
BELLEVUE, WA 98009-7730

- TR. 304 NOTES:
1. A COORDINATE LISTING, OR EQUAL, OF THE PROPOSED STORM STRUCTURES IS AVAILABLE AT GROUP FOUR, INC.
 2. ALL CATCH BASIN FRAMES AND GRATES ARE STANDARD FLAT LIDS UNLESS OTHERWISE NOTED.
 3. YARD DRAINS SHALL BE TYPE 50 AS SUPPLIED BY H.D. FOWLER (459-7300); 9"X9" BASIN (PART NO. 900) W/SQUARE GRATE (PART NO. 990), AND ASSOCIATED UNIVERSAL OUTLETS AS SUPPLIED BY NDS (1-800-726-1994); OR EQUIVALENT AS APPROVED BY THE ENGINEER.
 4. ALL RETAINING WALLS AND ROCKERIES IN EXCESS OF 3.0' IN HEIGHT SHALL HAVE A 4.0' (MINIMUM) HIGH SPLIT RAIL FENCE, OR APPROVED ALTERNATE, LOCATED ALONG THE WALLS UPPER ELEVATION.

"AS-BUILT"
ENGINEER
DATE: 2-6-2001

CALL 48 HOURS BEFORE YOU DIG
1-800-424-5555

REVIEWED AND DETERMINED TO BE IN COMPLIANCE WITH THE CONDITIONS OF APPROVAL. PRELIMINARY PLAT 98-52 AS APPROVED BY THE CITY COUNCIL.

William A. Simon 12/1/99
COMMUNITY DEVELOPMENT DIRECTOR DATE

CITY OF MILL CREEK
ACCEPTED FOR CONSTRUCTION

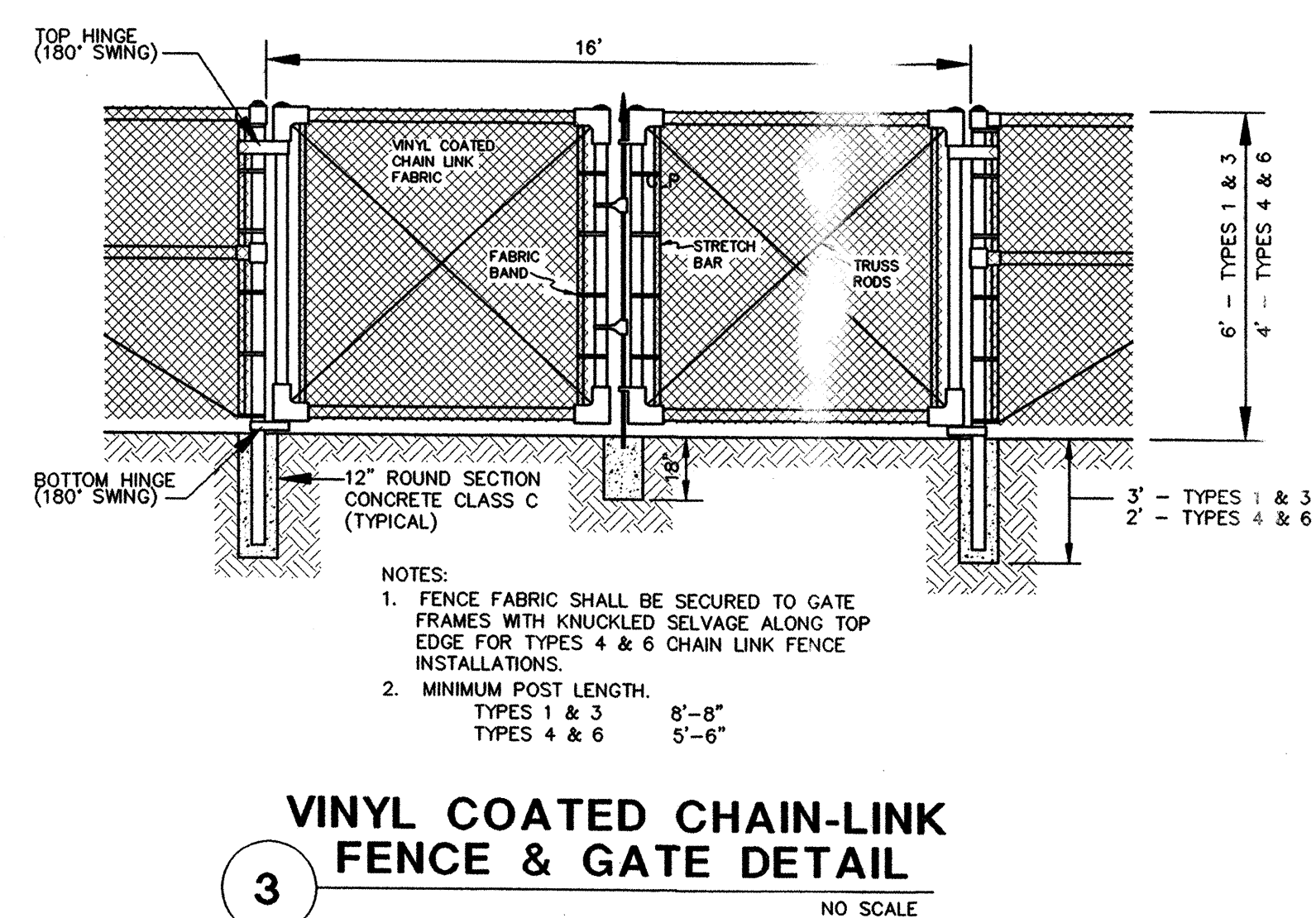
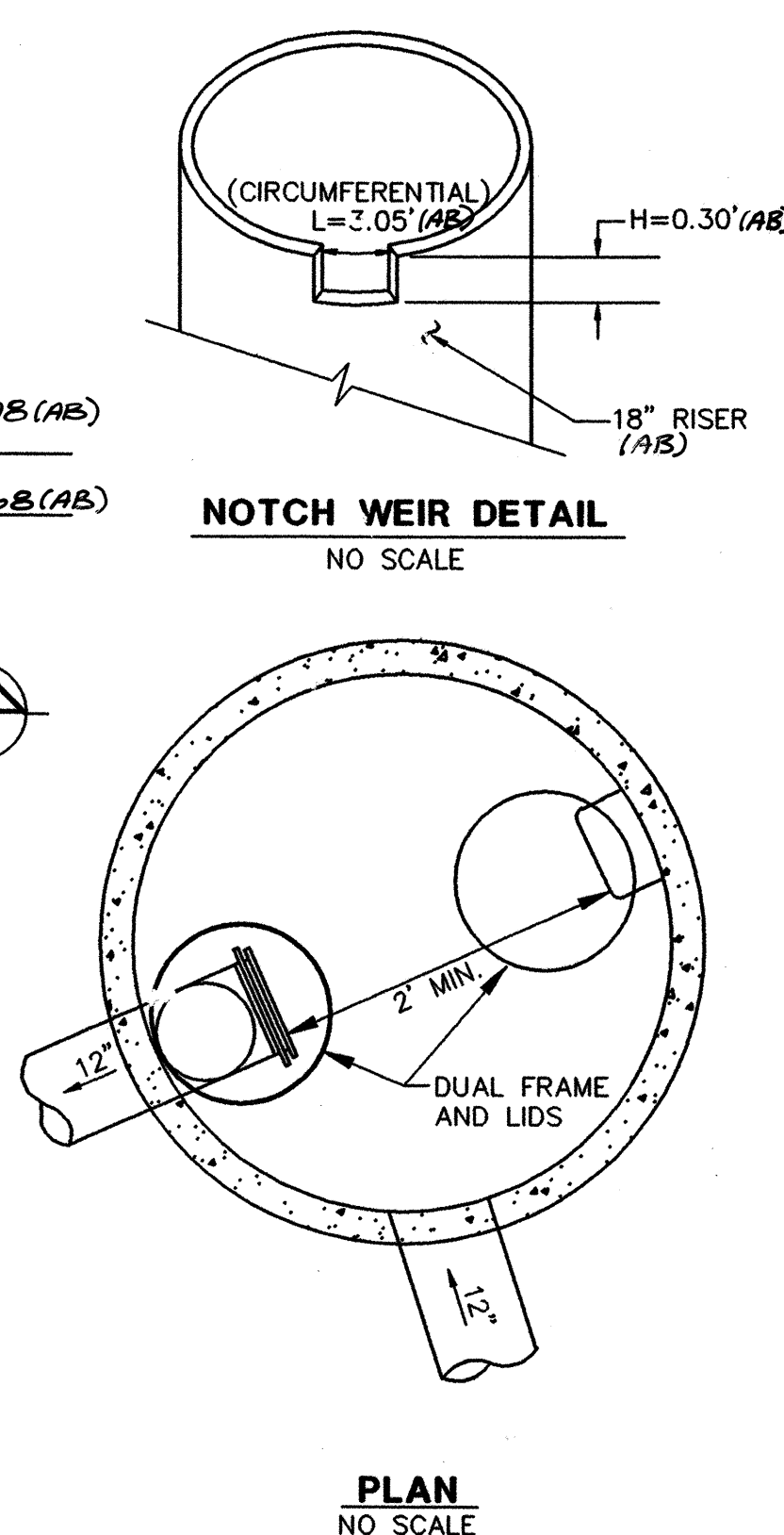
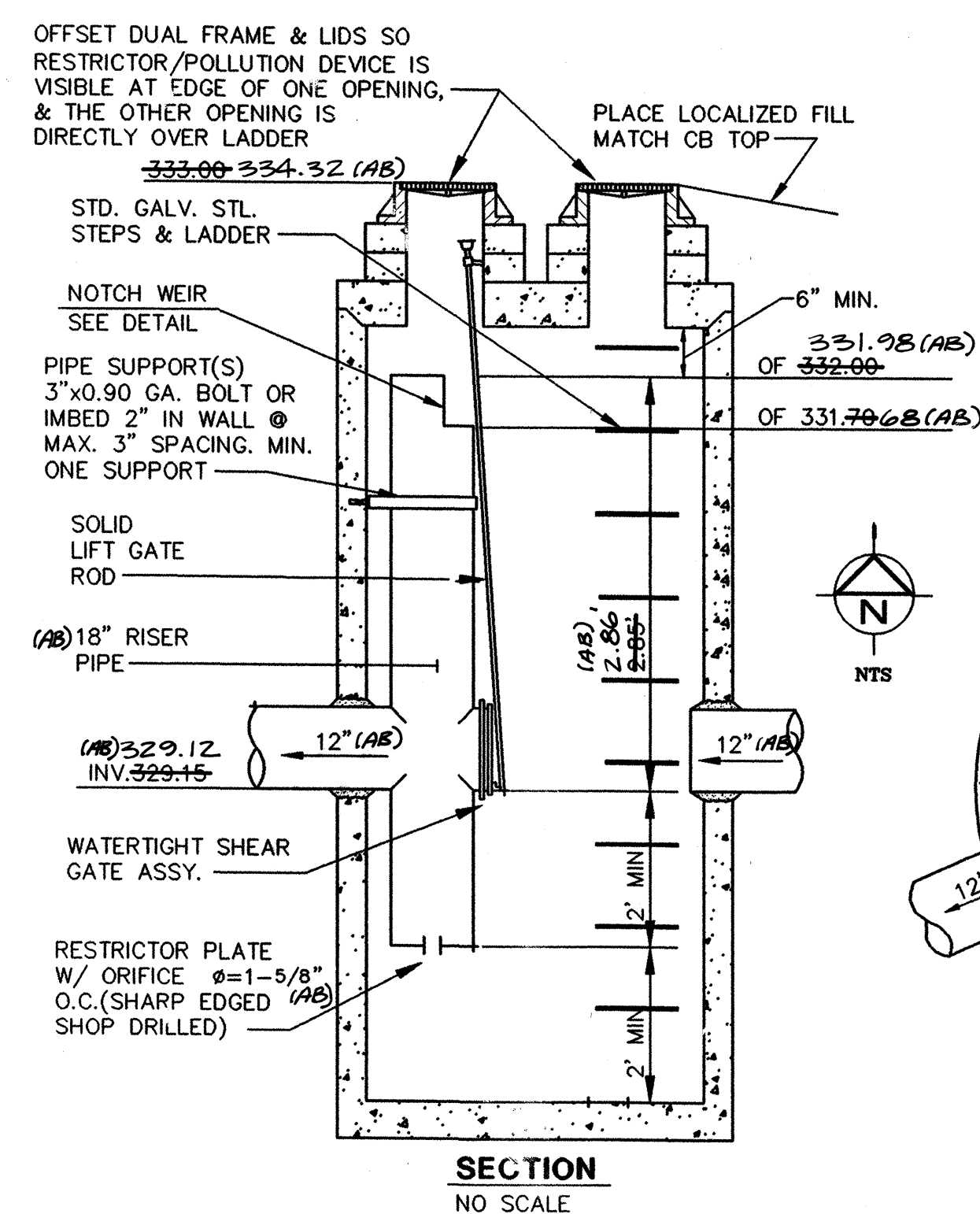
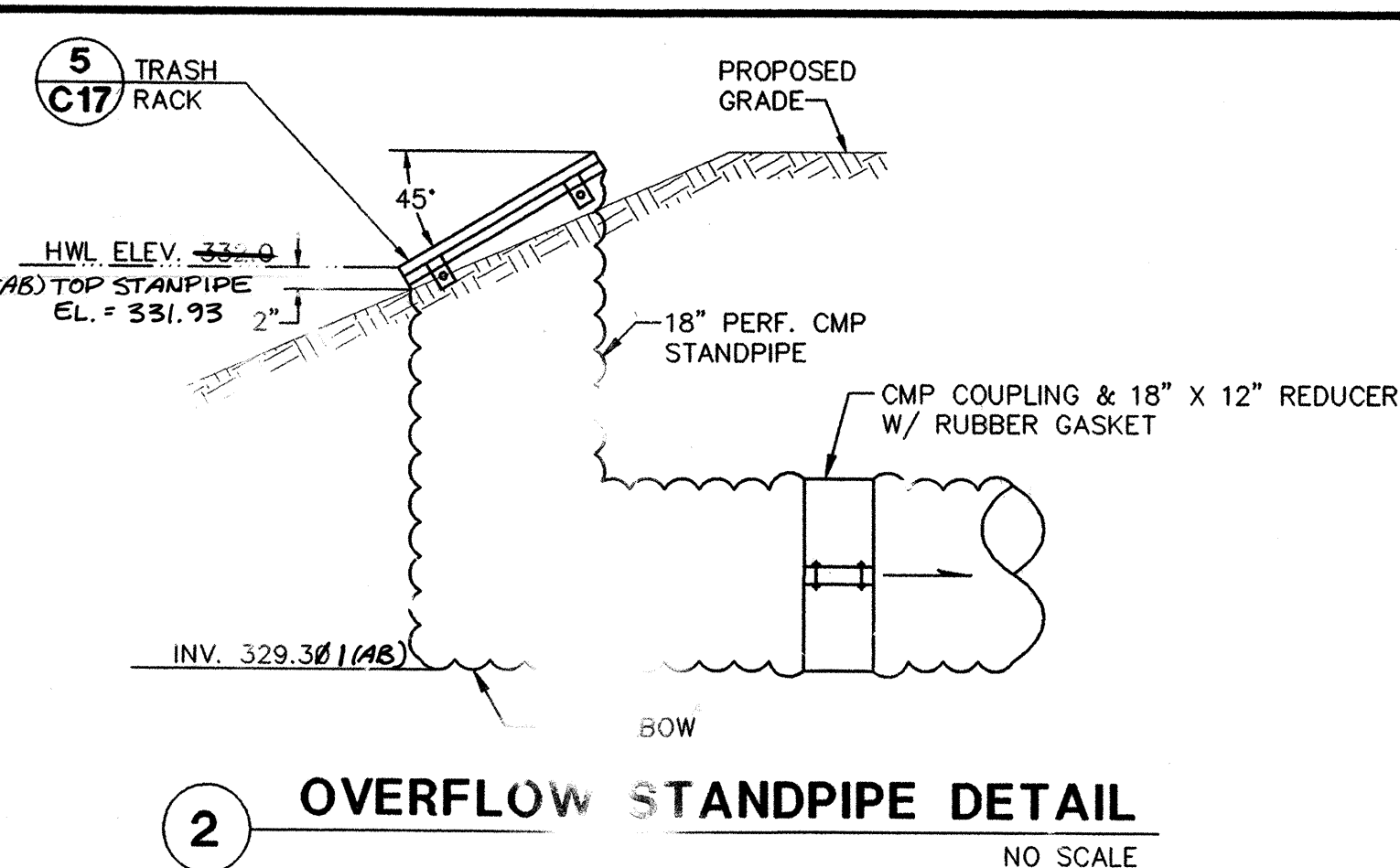
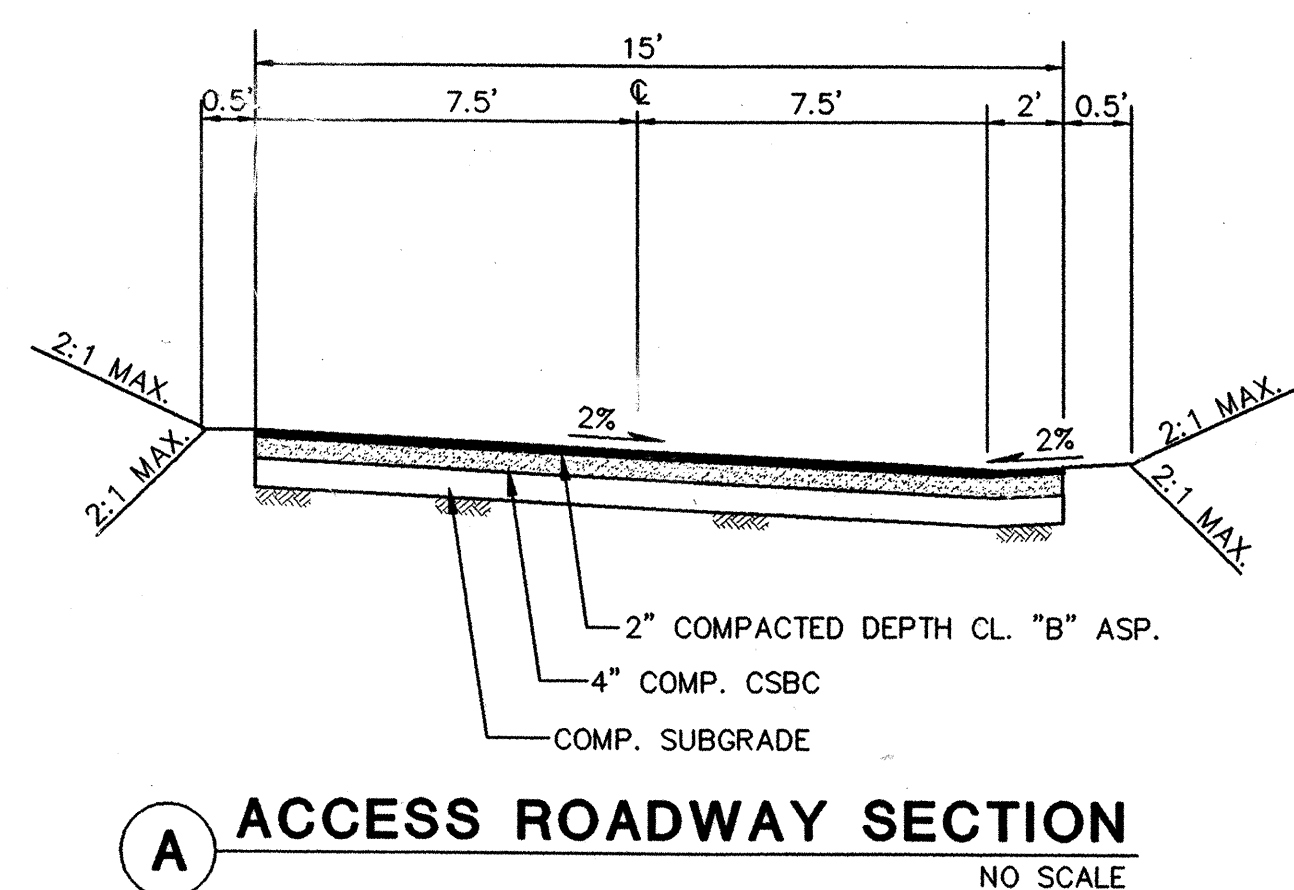
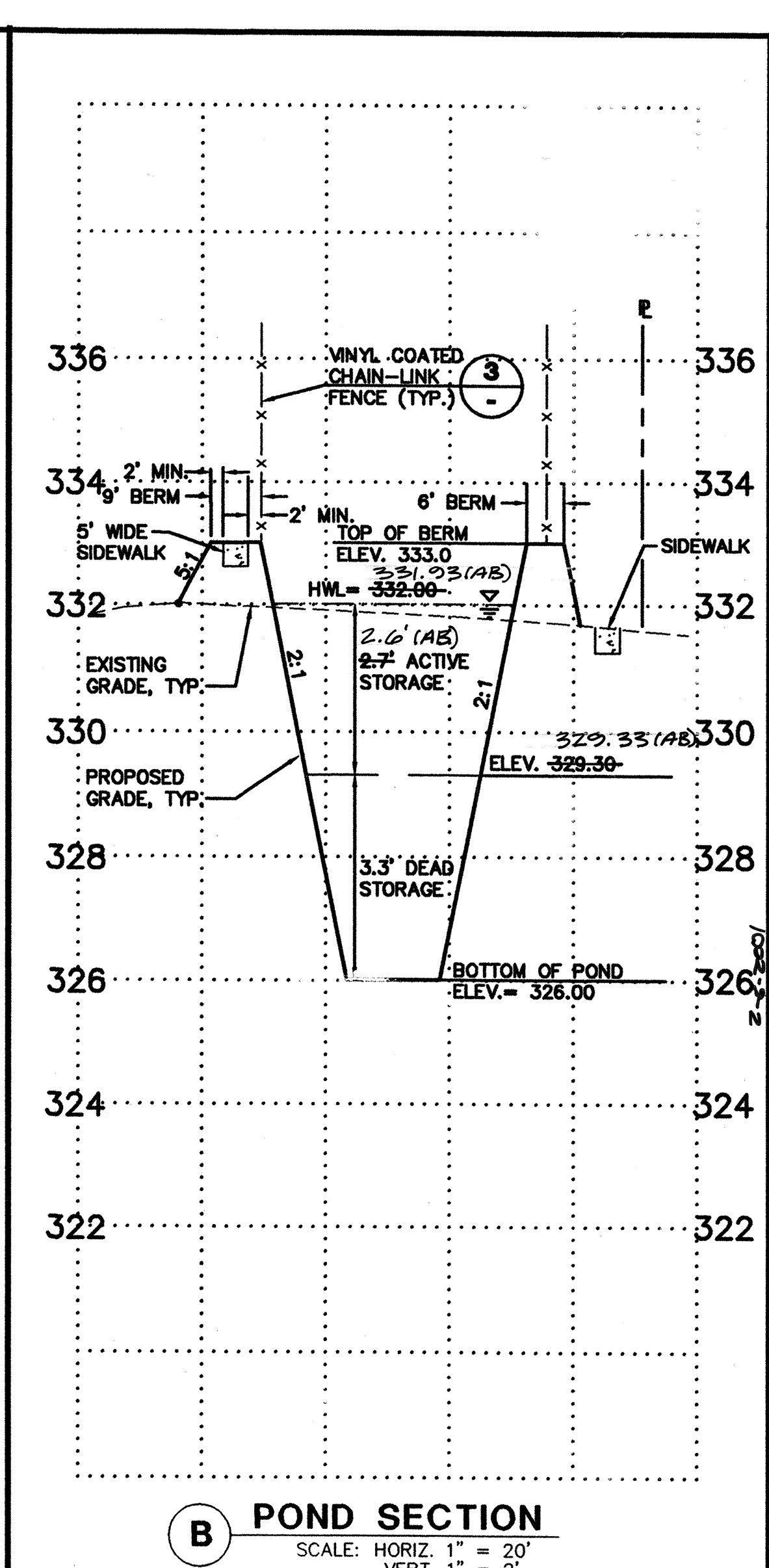
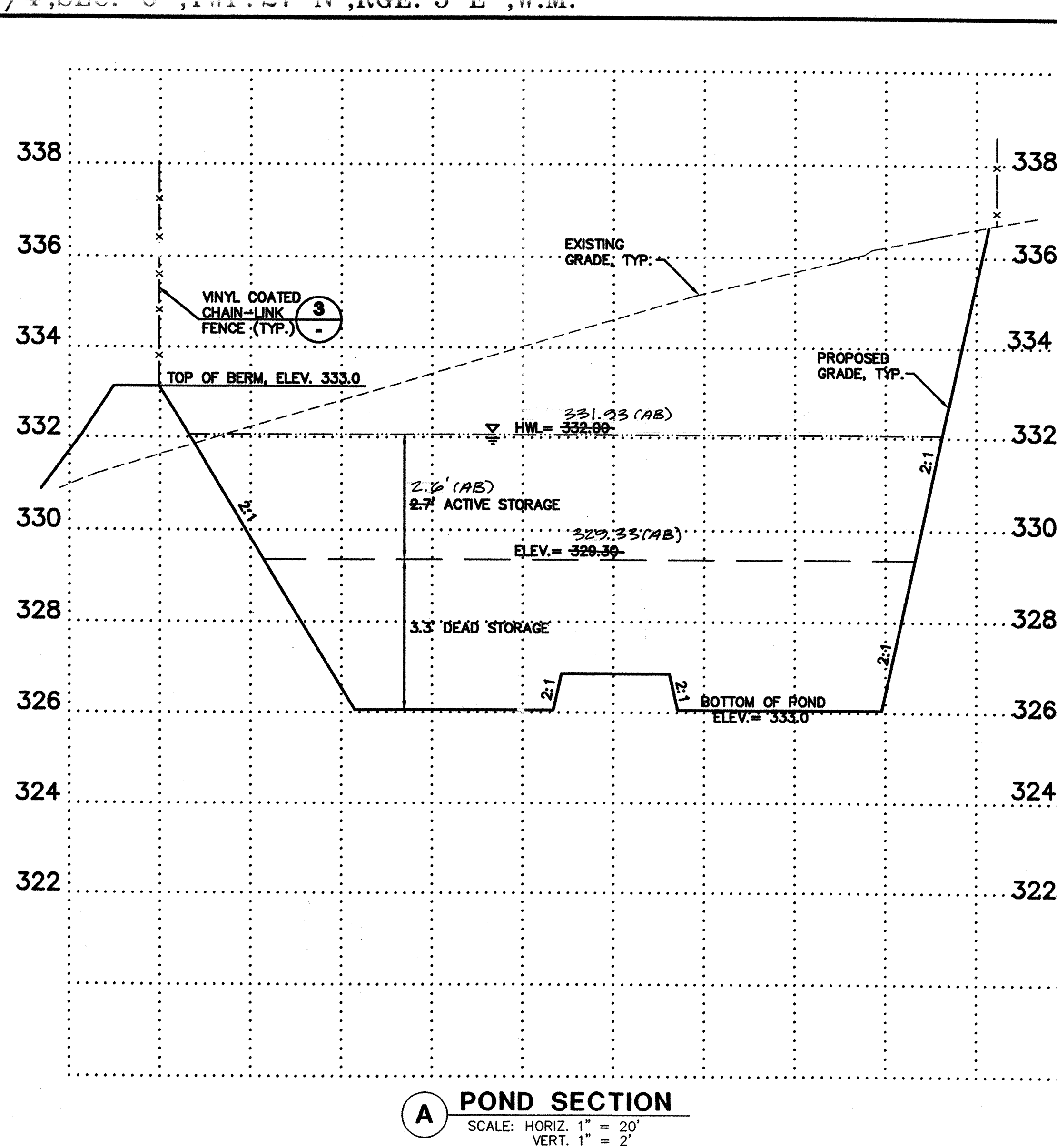
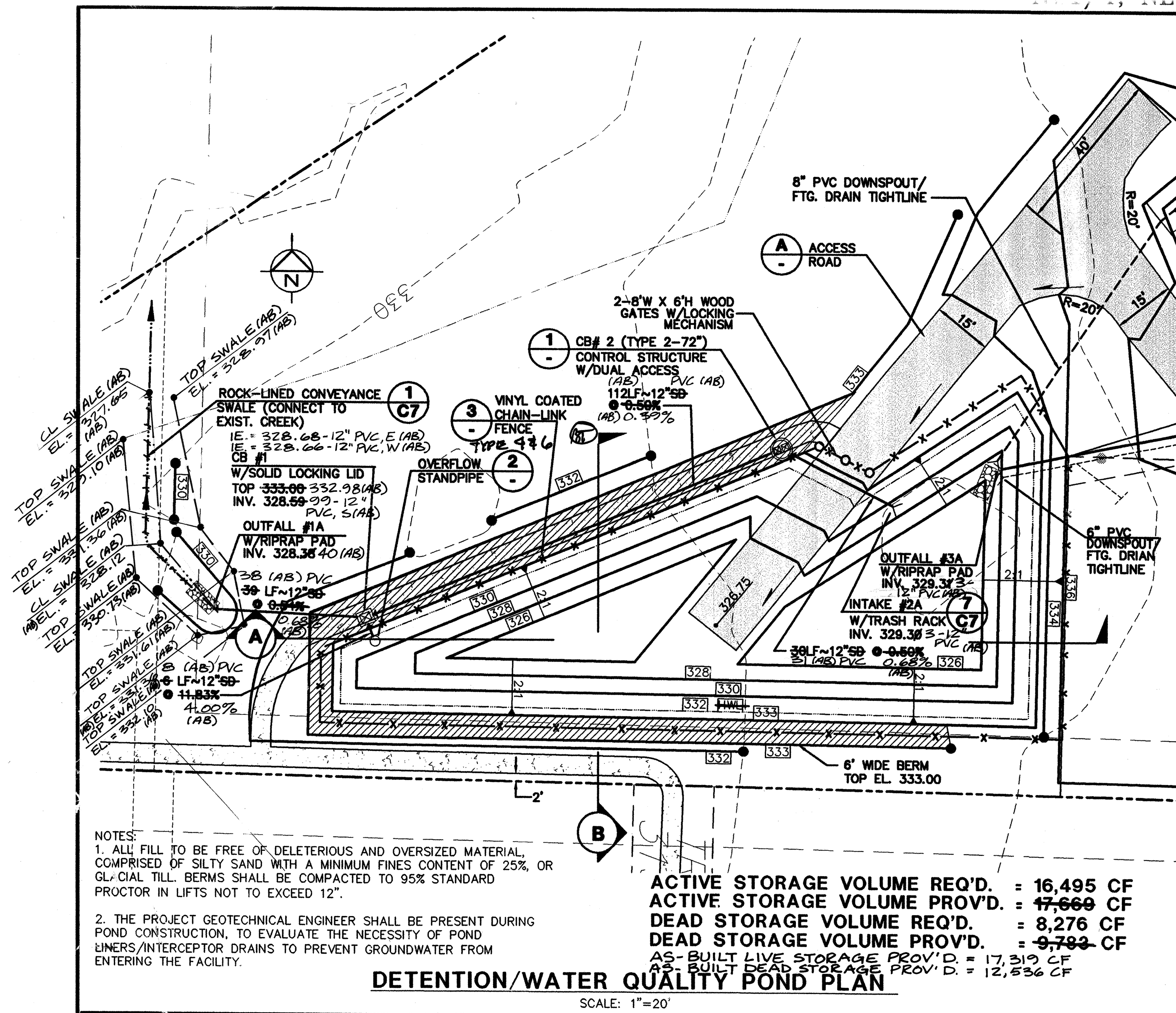
Craig Staphle 12/1/99
CITY ENGINEER DATE

GROUP FOUR, Inc.
16030 JUANITA-WOODVILLE WAY NE
BOOTHILL WASHINGTON 98011
(425) 775-4581 • (206) 362-4244 • FAX (206) 362-3819

DATE: 6/1/99
CHECKED BY: DATE:
APPROVED BY: DATE:

UNITED DEVELOPMENT CORPORATION
MILL CREEK "23"
ROADWAY & DRAINAGE PLAN
CITY OF MILL CREEK, WASHINGTON

SHT C4 OF 8
JOB NO: 96



"AS-BUILT"
ENGINEER
DATE: 2-6-2001

CALL 48 HOURS
BEFORE YOU DIG
1-800-424-5555

REVIEWED AND DETERMINED TO BE IN COMPLIANCE WITH THE CONDITIONS OF APPROVAL OF PRELIMINARY PLAT 98-52 AS APPROVED BY THE CITY COUNCIL.
COMMUNITY DEVELOPMENT DIRECTOR
DATE

CITY OF MILL CREEK
ACCEPTED FOR CONSTRUCTION
CITY ENGINEER
DATE: 12/4/99

UNITED DEVELOPMENT CORPORATION
MILL CREEK "23"
DETENTION/WATER QUALITY FACILITY
PLAN AND DETAILS
WASHINGTON
CITY OF MILL CREEK

SHT C6 OF 8
JOB NO: 98-8004

AS-BUILT

MAGNOLIA

HDEV-2436

GENERAL NOTES

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY OF MILL CREEK STANDARDS AND SPECIFICATIONS AND WASHINGTON STATE DEPARTMENT OF TRANSPORTATION CURRENT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
- ALL WORK WITHIN THE SITE SHALL BE SUBJECT TO THE INSPECTION OF THE CITY ENGINEER OR HIS/HER DESIGNATED REPRESENTATIVE.
- PRIOR TO BEGINNING ROAD CONSTRUCTION, THE APPLICANT, HIS/HER ENGINEER AND ROAD CONTRACTOR SHALL MEET WITH THE DEPARTMENT OF PUBLIC WORKS FOR A PRE-CONSTRUCTION MEETING.
- A COPY OF THESE APPROVED PLANS MUST BE ON THE SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- PRIOR TO ANY SITE CONSTRUCTION TO INCLUDE CLEARING/LOGGING OR GRADING THE SITE/LOT CLEARING LIMITS SHALL BE LOCATED AND FIELD IDENTIFIED BY THE PROJECT SURVEYOR/ENGINEER AS REQUIRED BY THESE PLANS AND APPROVED BY THE CITY.
- THE TEMPORARY EROSION/SEDIMENTATION CONTROL FACILITY SHALL BE CONSTRUCTED PRIOR TO ANY GRADING OR EXTENSIVE LAND CLEARING IN ACCORDANCE WITH THE APPROVED TEMPORARY EROSION/SEDIMENTATION CONTROL PLAN. THESE FACILITIES MUST BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION AND LANDSCAPING IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED.
- TRENCH BACK FILL OF NEW UTILITIES AND STORM DRAINAGE FACILITIES SHALL BE COMPACTED TO 95% MAXIMUM DENSITY (MODIFIED PROCTOR) UNDER ROADWAYS AND 90% MAXIMUM DENSITY (MODIFIED PROCTOR) OFF ROADWAYS, AS SPECIFIED IN SECTION 2-03.3(14) COMPACTING EARTH EMBANKMENTS METHOD B.
- LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. UTILITIES SHOWN HERE ARE FOR THE PURPOSES OF ASSISTING THE CONTRACTOR IN LOCATING SAID UTILITIES. CONTRACTOR SHALL CONTACT UNDERGROUND UTILITIES LOCATION CENTER (1-800-424-5555) 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION AND OBTAIN ON-SITE UTILITIES LOCATIONS.
- THE CONTRACTOR SHALL COMPLY WITH ALL OTHER NECESSARY PERMITS AND REQUIREMENTS BY THE CITY OF MILL CREEK GOVERNING AUTHORITY/AGENCY.
- DISTURBED SOIL SHALL BE HYDRO-SEEDED IF NOT WORKED WITHIN 30 DAYS.

STORM DRAINAGE NOTES

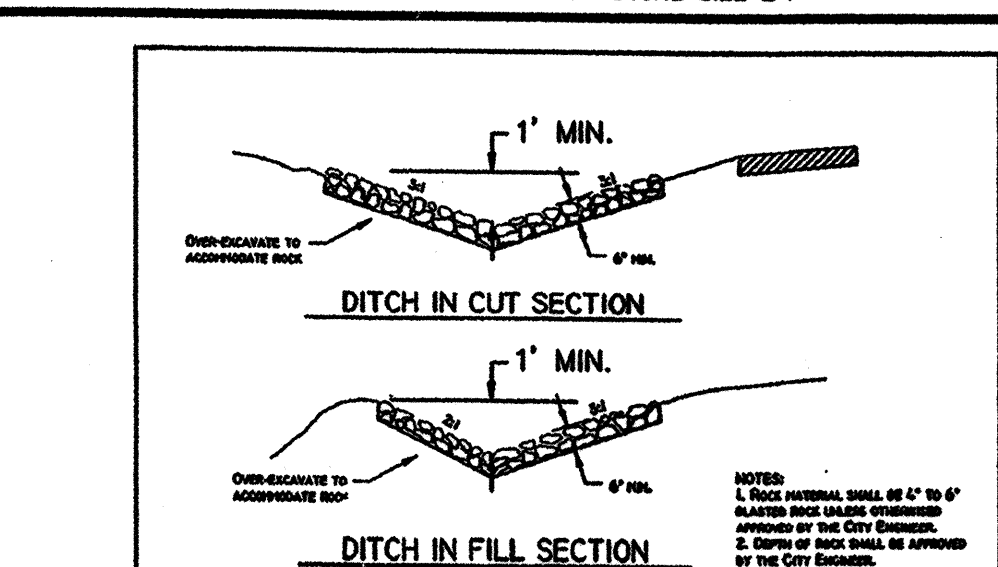
- ALL PIPE SHALL BE PLACED ON STABLE EARTH, OR IF IN THE OPINION OF THE CITY ENGINEER, THE EXISTING FOUNDATION IS UNSATISFACTORY, THEN IT SHALL BE EXCAVATED BELOW GRADE AND BACK FILLED WITH A CITY APPROVED MATERIAL TO SUPPORT THE PIPE.
- THE BACKFILL SHALL BE PLACED EQUALLY ON BOTH SIDES OF THE PIPE OR PIPE-ARCH IN LAYERS WITH A LOOSE AVERAGE DEPTH OF 6" MAXIMUM DEPTH 8", THOROUGHLY TAMPING EACH LAYER. THESE COMPACTED LAYERS MUST EXTEND FOR ONE DIAMETER ON EACH SIDE OF THE PIPE OR THE PIPE OR TO THE SIDE OF THE TRENCH. MATERIALS TO COMPLETE THE FILL OVER PIPE SHALL BE THE SAME AS DESCRIBED. (REFER TO SPECIFICATION 2-03.3(14)C, METHOD B & C.
- ALL CATCH BASINS TO BE TYPE 1 UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL MANHOLE, INLET, AND CATCH BASIN FRAMES AND GRATES JUST PRIOR TO POURING OF CURBS AND PAVING.
- ALL CATCH BASINS WITH A DEPTH OVER 5.0 FEET TO THE FLOW LINE SHALL BE A TYPE 2 CB (MANHOLE).
- ALL TYPE 2 CATCH BASINS MANHOLES AND ALL INLET AND CATCH BASINS OUTSIDE OF THE PUBLIC R/W SHALL HAVE LOCKING LIDS.
- STANDARD LADDER STEPS SHALL BE PROVIDED IN ALL CATCH BASINS/MANHOLES EXCEEDING 5 FEET IN DEPTH.
- CATCH BASIN STANDARD FRAME AND GRATE SHALL BE DUCTILE IRON (H20 RATING) 18" X 24" V-GRATE. THRU CURB CATCH BASIN FRAME AND GRATE SHALL BE 18" X 24" DUCTILE IRON-DIAGONAL SLOT GRATE WITH 9" HIGH DIAMOND PLATE HOOD WITH H20 RATING.
- PRIOR TO SIDEWALK CONSTRUCTION, CONSTRUCT THE LOT DRAINAGE AND STUB OUTS AND/OR BEHIND SIDEWALK DRAINS AS REQUIRED. POSITIVE DRAINAGE IS TO BE PROVIDED WHERE FEASIBLE WITH CONNECTION TO STORM DRAIN. STUB-OUTS SHALL BE MARKED WITH A 2"x4" AND LABELED "STORM".
- STORM WATER RETENTION/DETENTION FACILITIES STORM DRAINAGE PIPE AND CATCH BASINS SHALL BE FLUSHED AND CLEANED PRIOR TO ACCEPTANCE.
- PIPE SPECIFICATIONS: PIPE MATERIALS, JOINTS AND PROTECTIVE TREATMENT SHALL BE IN ACCORDANCE WITH WSDOT/APWA STANDARD SPECIFICATIONS SECTION 9.05 AND ASTM AND ASTM DESIGNATIONS AS NOTED BELOW.

RIPRAP SPECIFICATIONS

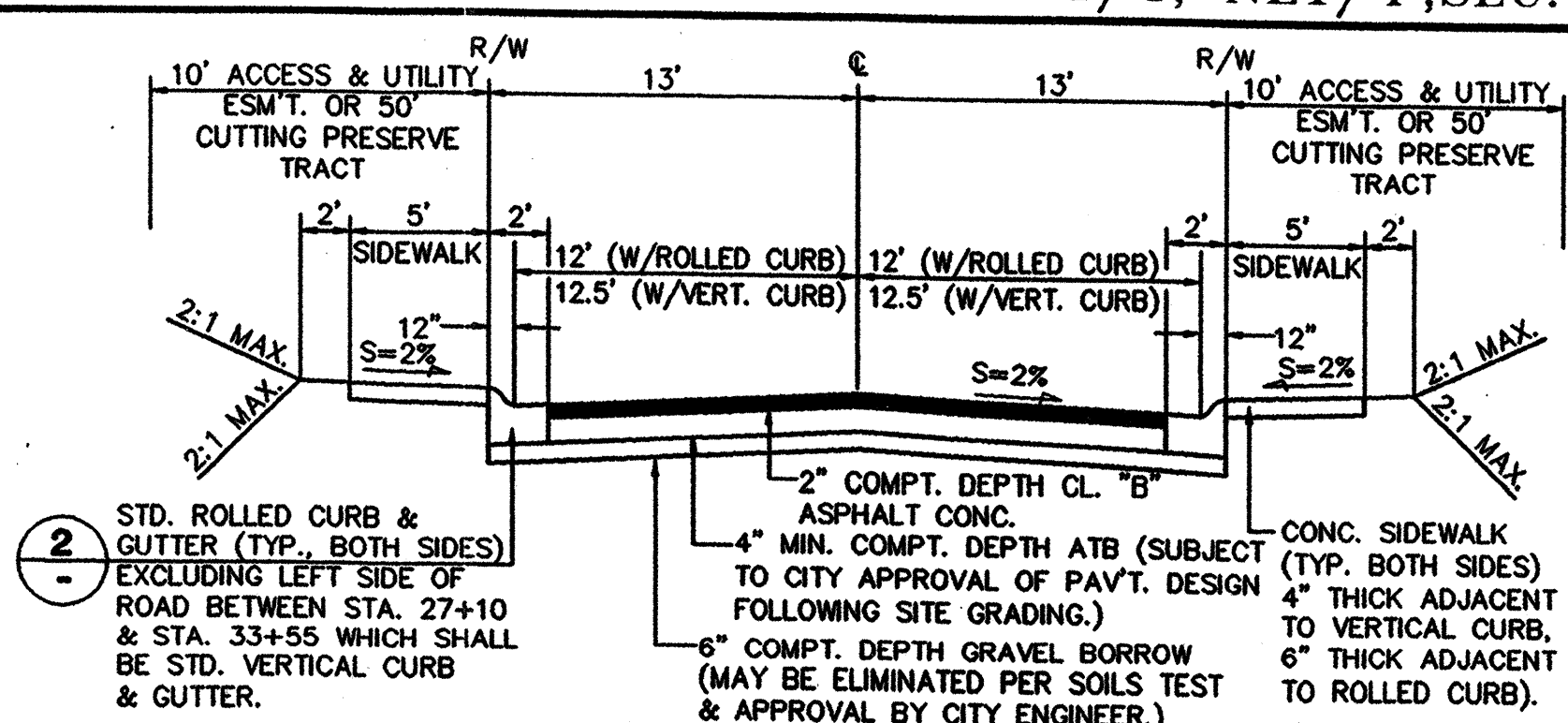
- MATERIALS ALLOWED FOR STORM DRAIN LINES:
- PLAIN CONCRETE PIPE (CP)
 - REINFORCED CONCRETE PIPE (RCP)
 - ALUMINUM SPIRAL RIB PIPE (ASRP)
 - PVC-3034
- MATERIALS ALLOWED FOR 6" ROOF DRAIN LINES:
- ASTM D3034 PVC
 - SURCS
- ALLOWABLE JOINTS:
- CONCRETE PIPE SHALL BE RUBBER GASKETED.
 - SPIRAL RIB PIPE SHALL BE "HAT BANNED" WITH NEOPRENE GASKETS.

ROCK-LINED CONVEYANCE SWALE

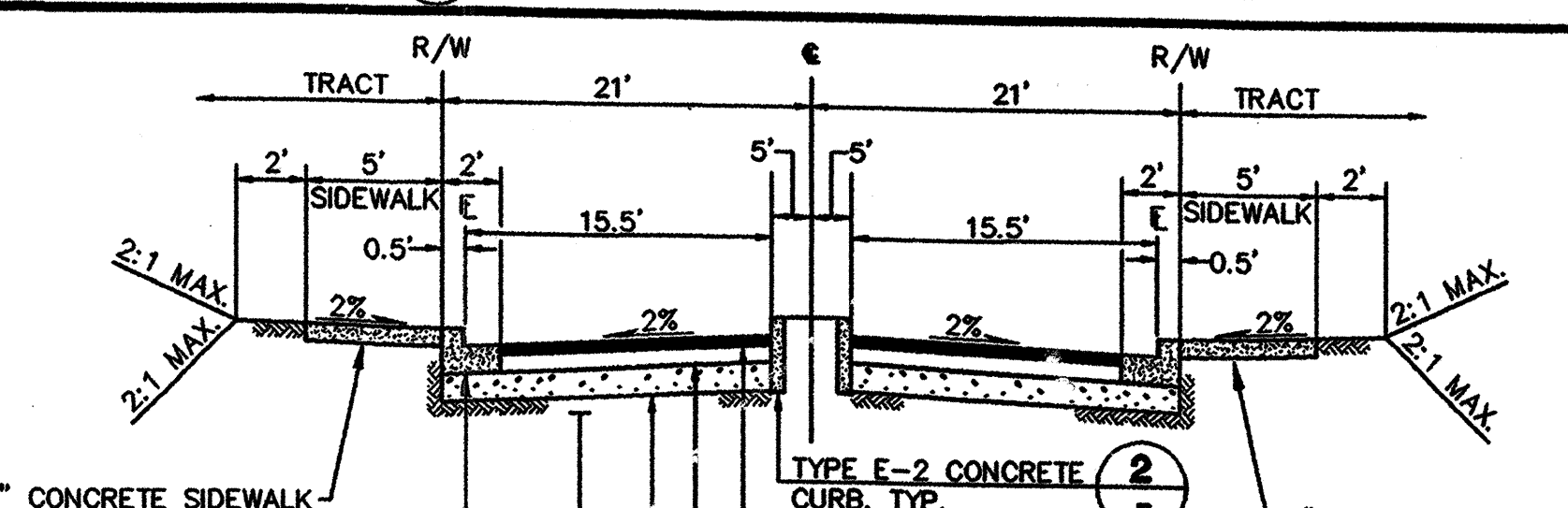
- RIPRAP SHALL BE IN ACCORDANCE WITH SECTION 9-13.1 OF THE WSDOT/APWA STANDARD SPECIFICATIONS.
- RIPRAP TO BE REASONABLY WELL GRADED WITH ROCK GRADATION AS FOLLOWS:
- PASSING 8" SQUARE SIEVE 100% OR MAXIMUM STONE SIZE 8".
 - PASSING 6" SQUARE SIEVE 40-60% OR MEDIUM STONE SIZE 6".
 - PASSING 2" SQUARE SIEVE 0-10% OR MINIMUM STONE SIZE 2".



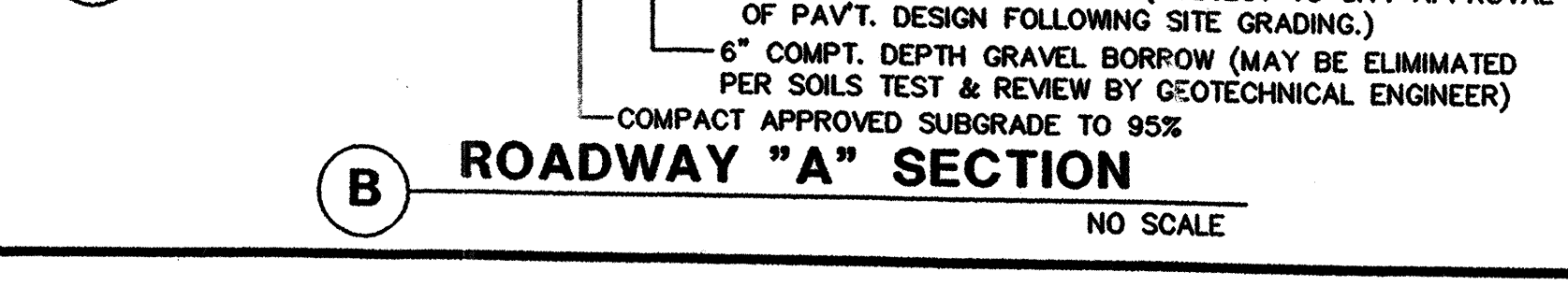
1 CITY OF MILL CREEK STD. PLAN STM11 NO SCALE



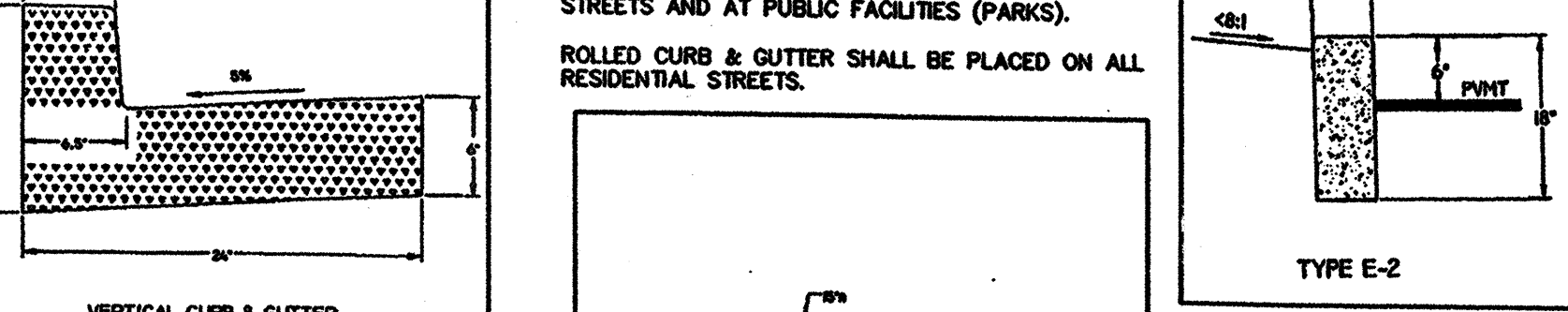
2 ROADWAY "B" SECTION NO SCALE



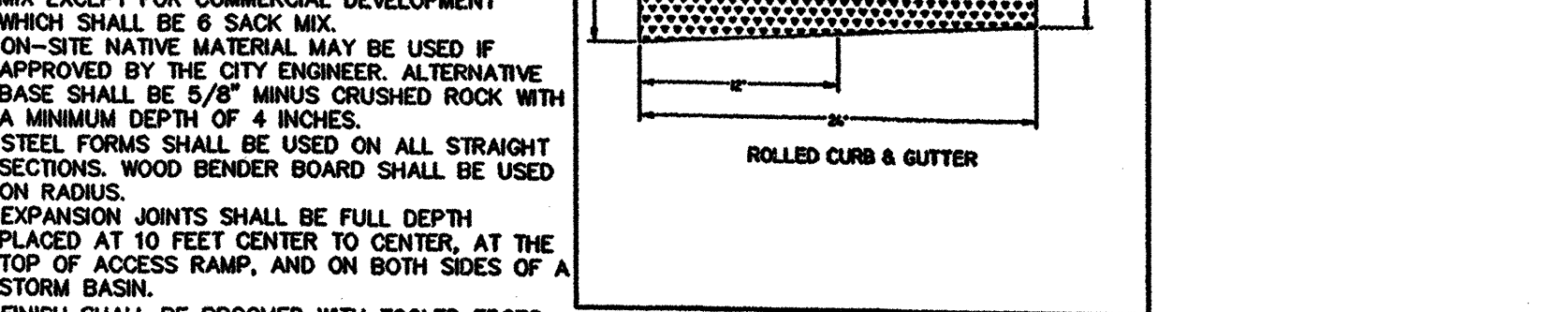
2 ROADWAY "A" SECTION NO SCALE



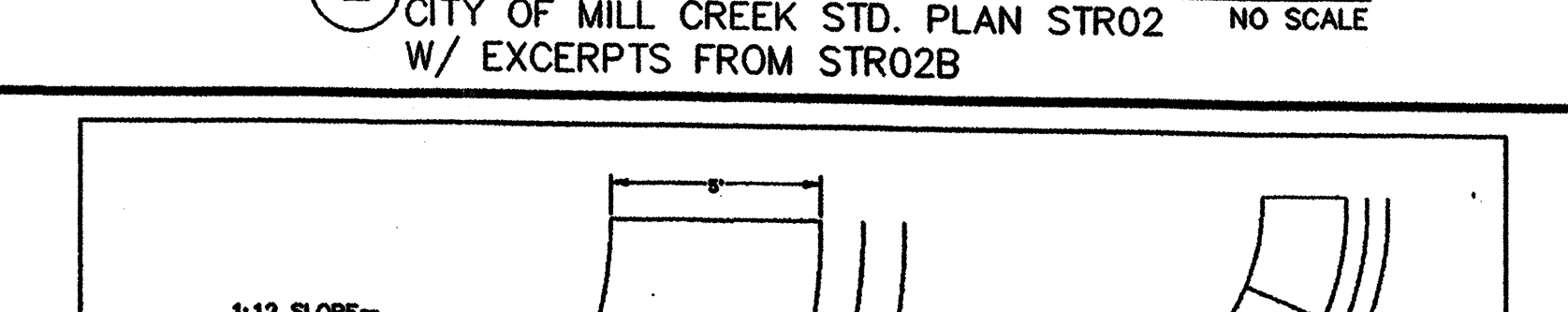
2 CURBING DETAILS CITY OF MILL CREEK STD. PLAN STRO2 NO SCALE W/ EXCERPTS FROM STRO2B



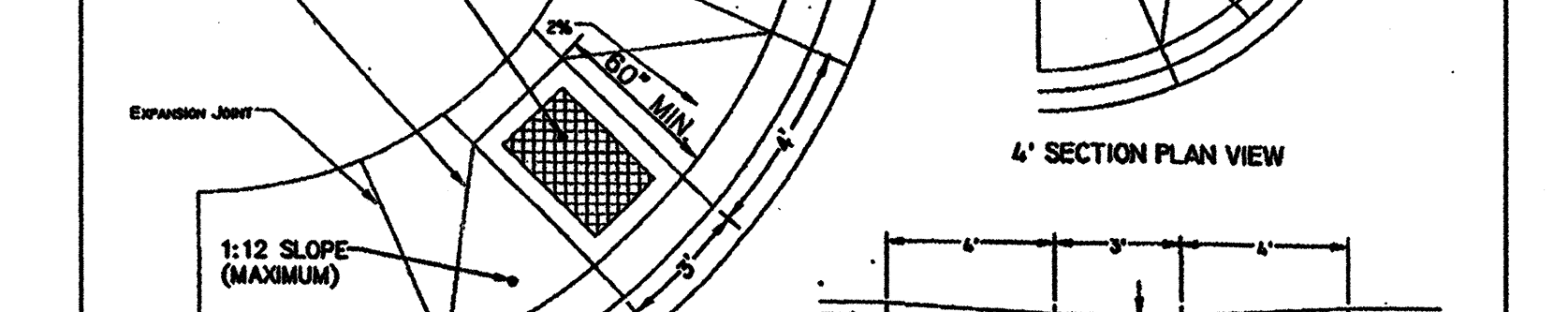
3 HANDICAP RAMP (DEPRESSED SIDEWALK) CITY OF MILL CREEK STD. PLAN STRO4 NO SCALE



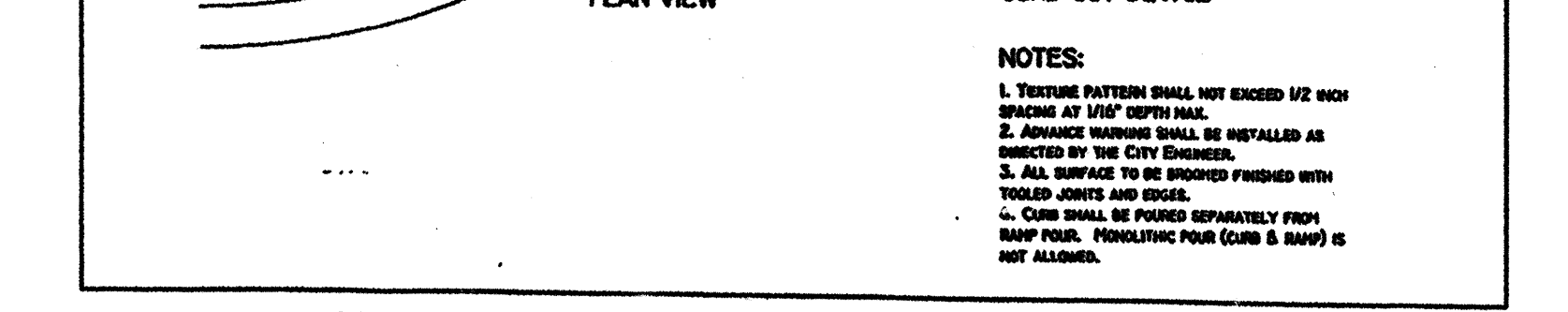
3 HANDICAP RAMP (DEPRESSED SIDEWALK) CITY OF MILL CREEK STD. PLAN STRO4 NO SCALE



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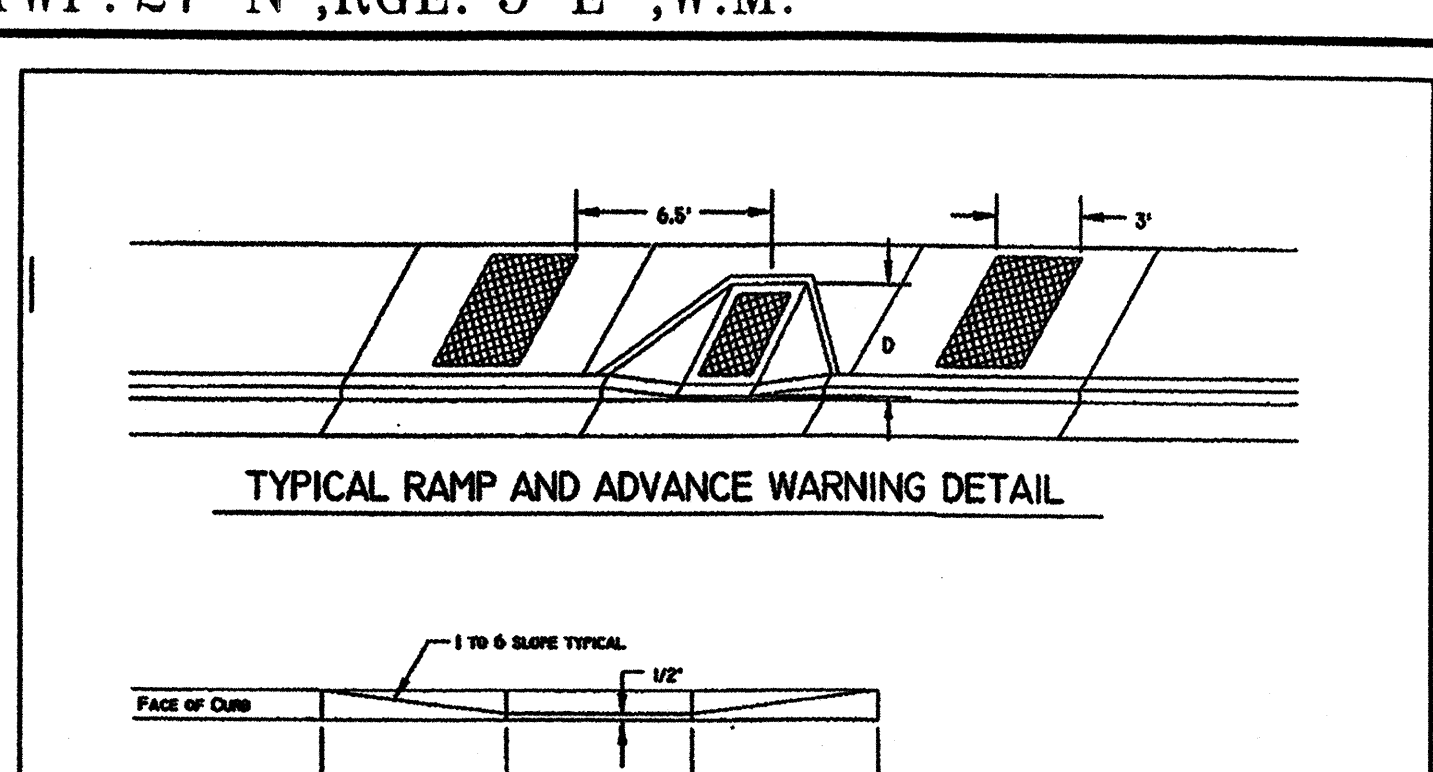


3 HANDICAP RAMP (DEPRESSED SIDEWALK) CITY OF MILL CREEK STD. PLAN STRO4 NO SCALE

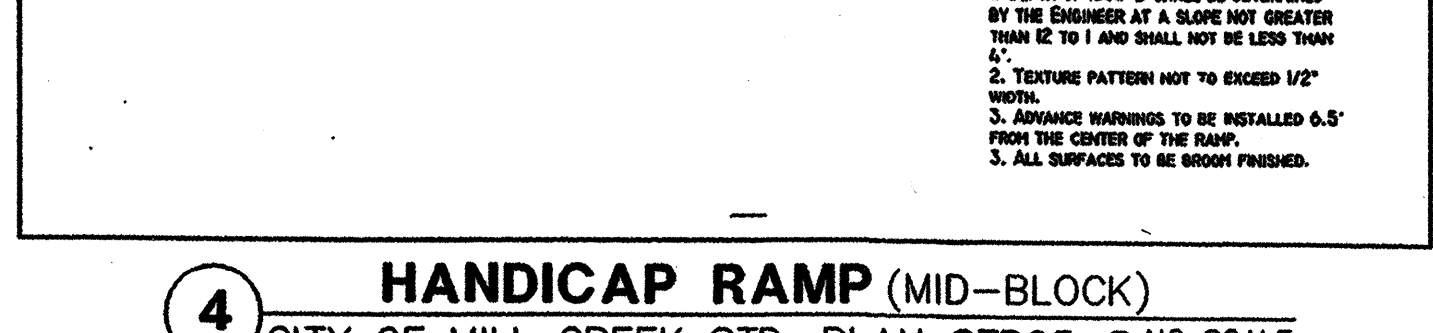


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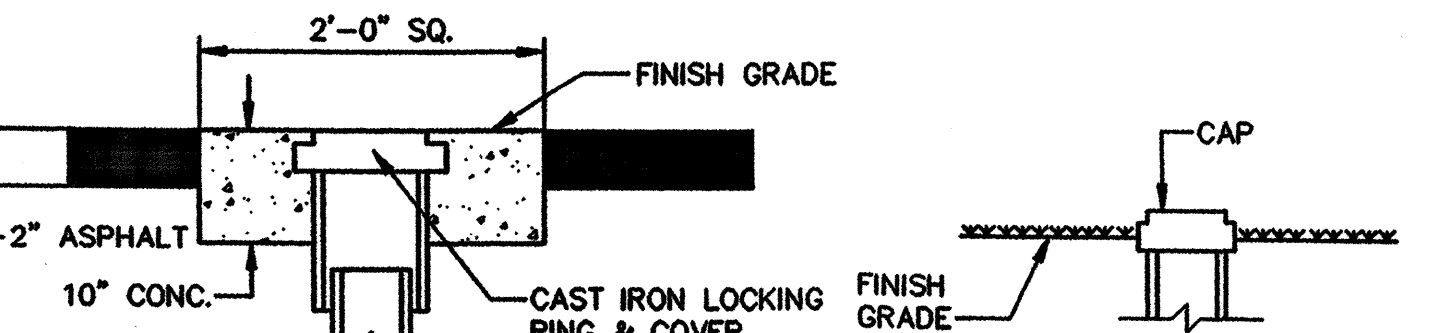
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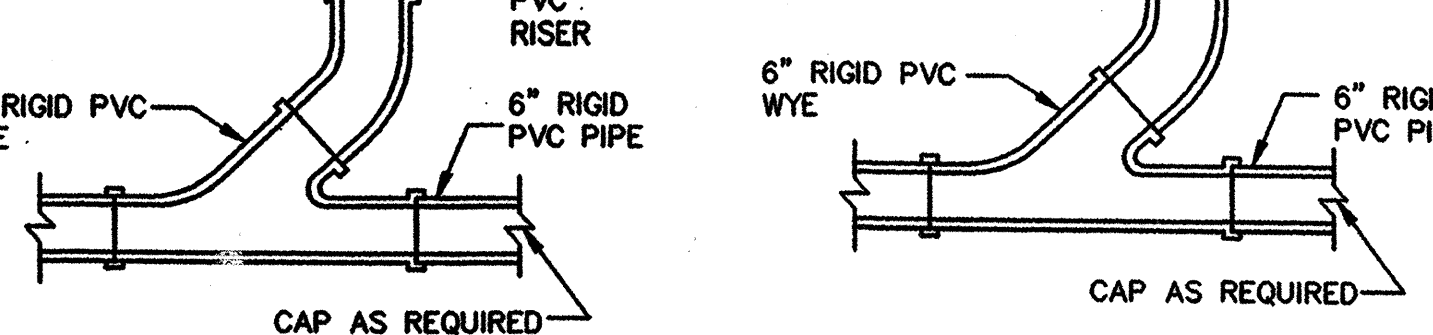
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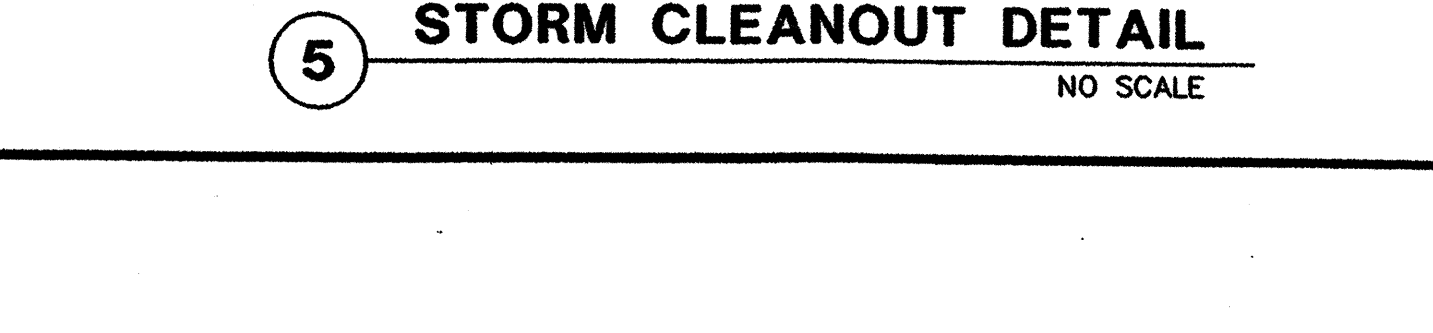
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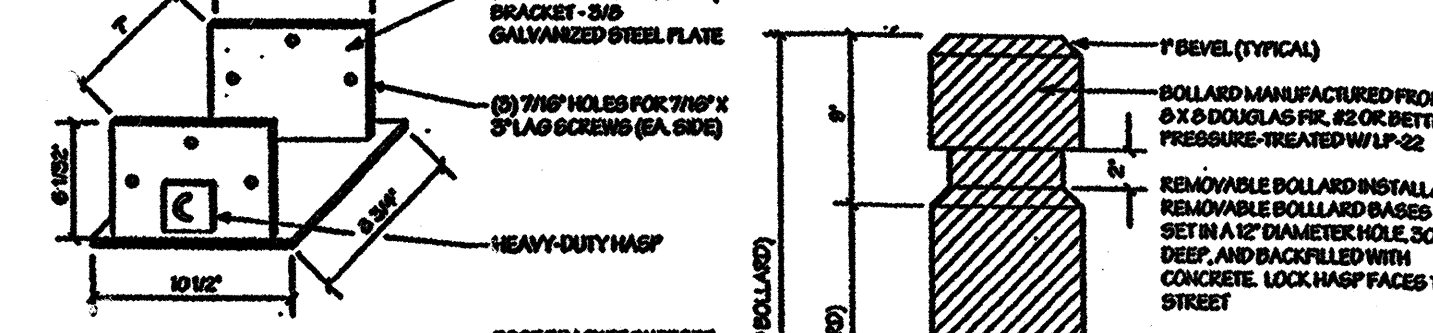
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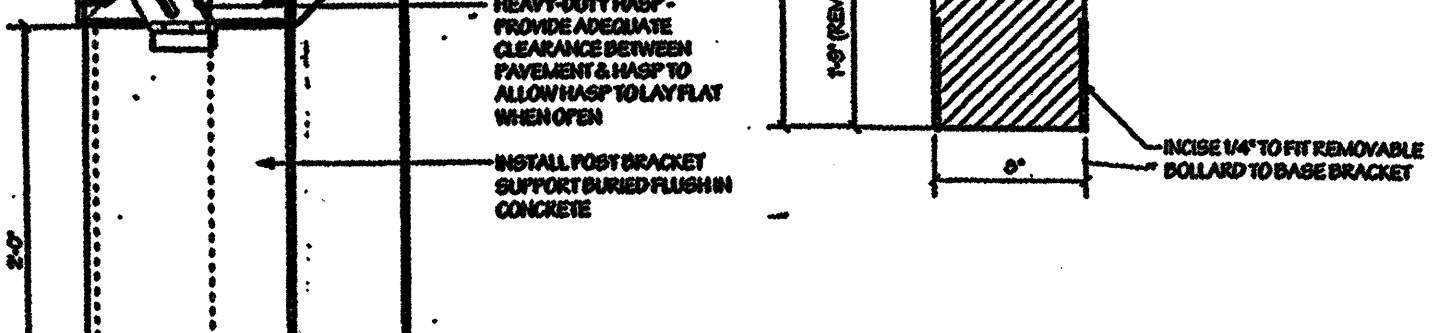
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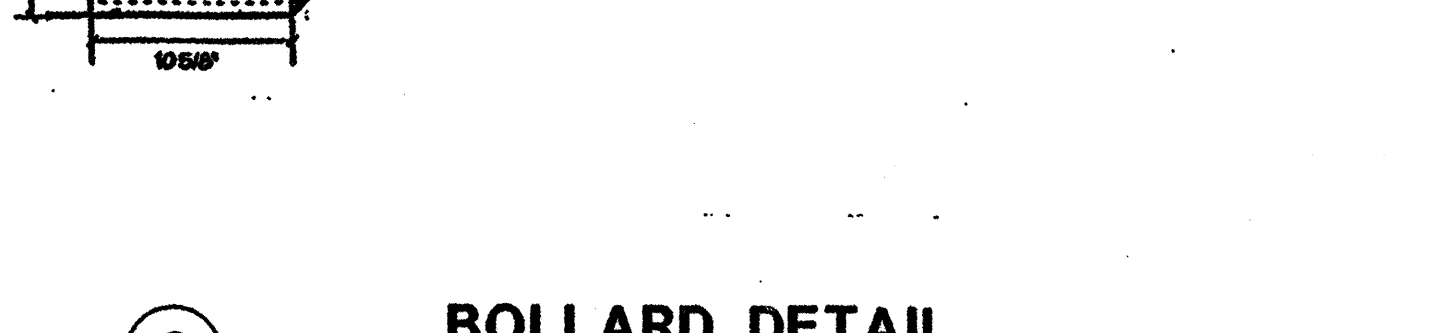
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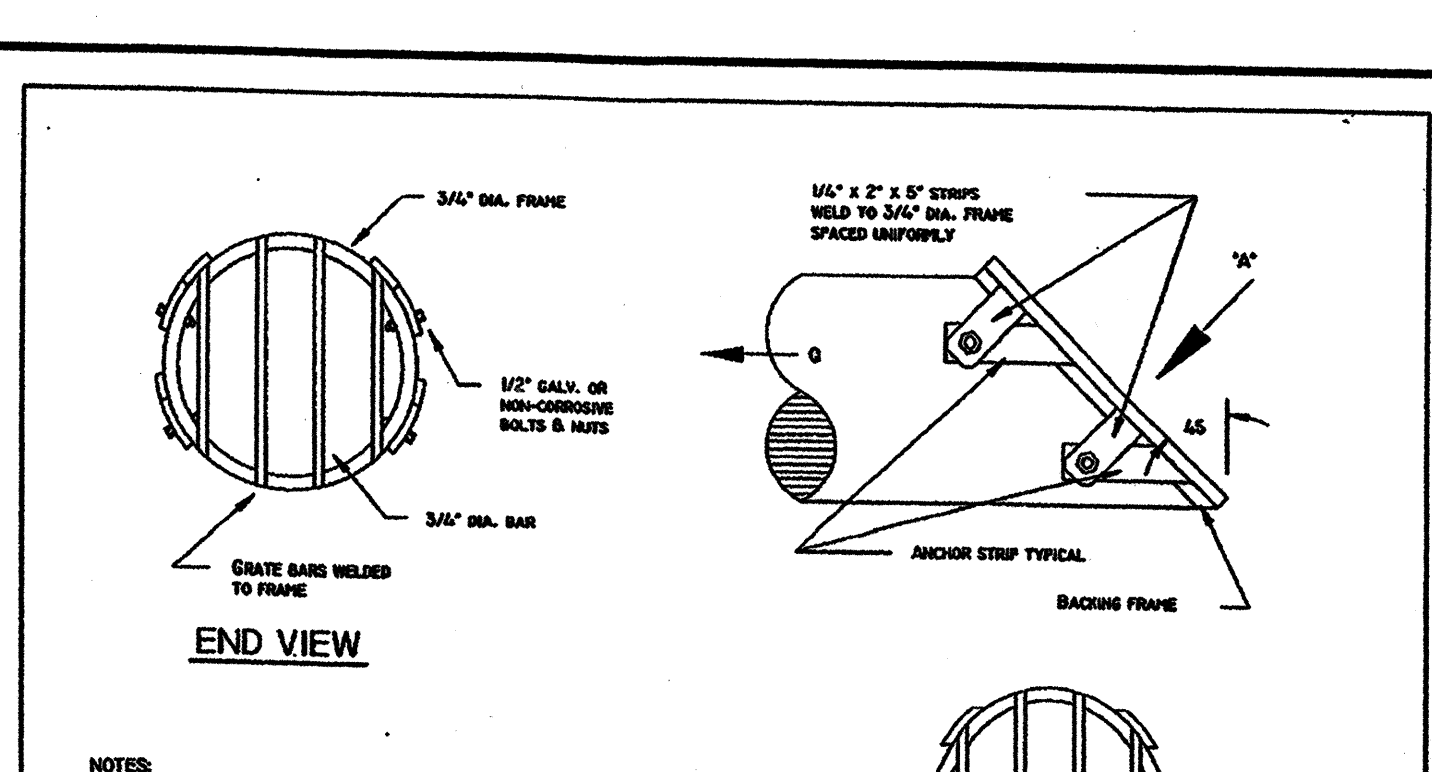


4 HANDICAP RAMP (MID-BLOCK) CITY OF MILL CREEK STD. PLAN STRO5-B NO SCALE

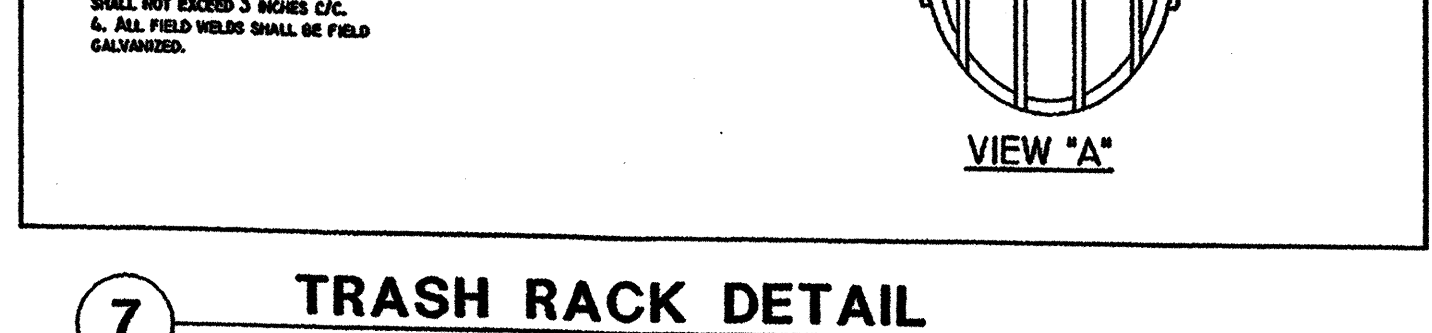


4 HANDICAP RAMP (MID-BLOCK) CITY OF MILL CREEK STD. PLAN STRO5-B NO SCALE

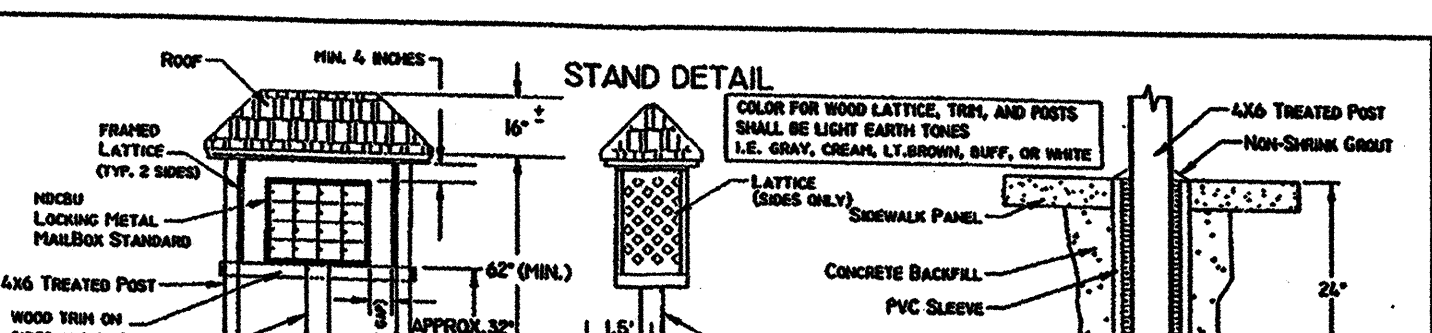
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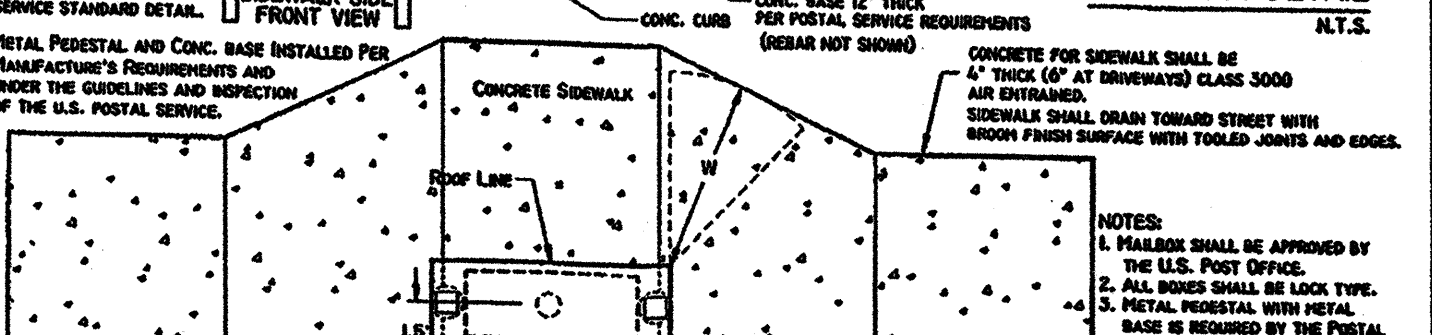
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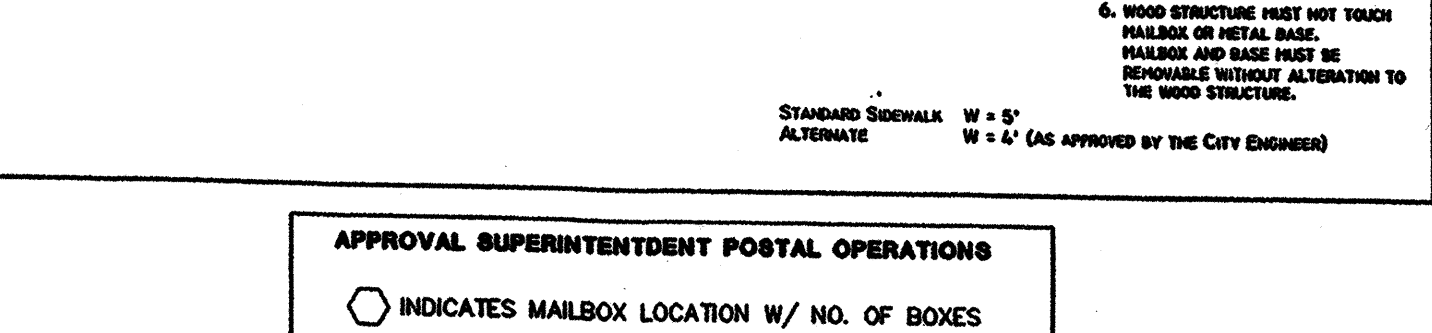
7 TRASH RACK DETAIL CITY OF MILL CREEK STD. PLAN STM13 NO SCALE



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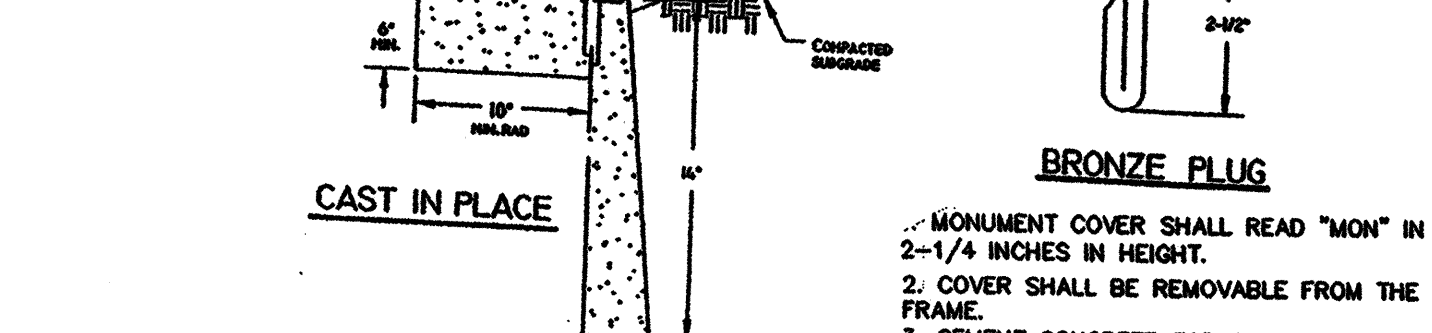
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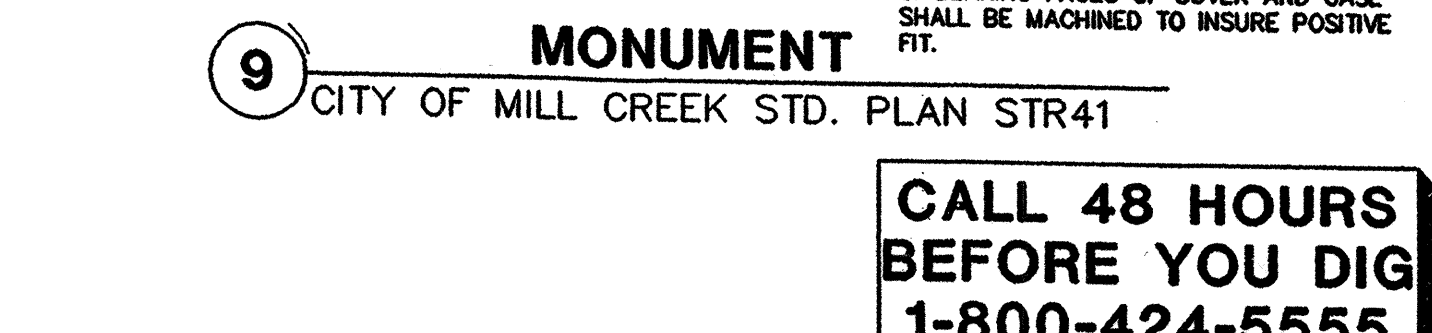
7 TRASH RACK DETAIL CITY OF MILL CREEK STD. PLAN STM13 NO SCALE



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CITY OF MILL CREEK
ACCEPTED FOR CONSTRUCTION

DATE: 12/1/99
DATE: 12/1/99

REVIEWED AND DETERMINED TO BE IN COMPLIANCE WITH THE CONDITIONS OF APPROVAL OF PRELIMINARY PLAT 98-52 AS APPROVED BY THE CITY COUNCIL.

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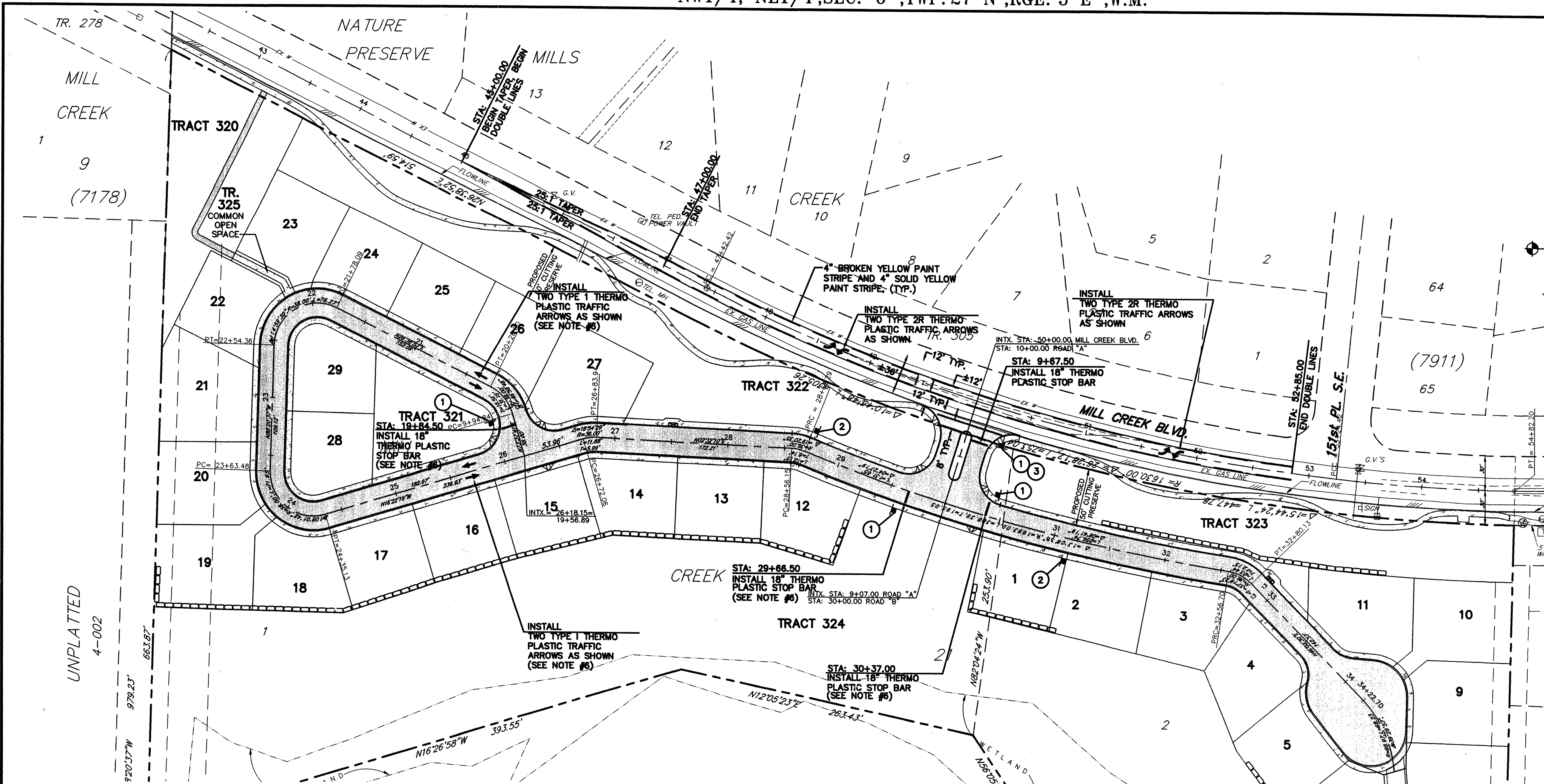
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CITY OF MILL CREEK
ACCEPTED FOR CONSTRUCTION

DATE: 12/1/99
DATE: 12/1/99

AS-BUILT MAG NOLIA HDEV-2437



SCALE: 1" = 50'
CONTOUR INTERVAL = 2'

BASIS OF BEARINGS: MILL CREEK PER PLAT RECORDED IN V. 63 PAGES 222 AND 223, RECORDS OF SNO. CO. WA.

DATUM: CITY OF MILL CREEK MEAN SEA LEVEL DATUM, ALSO US&GS MSL DATUM.

BENCH: TOP OF PUNCH MARK IN BRASS DISK @ P.C. MON. JUST SOUTH OF INTERSECTION MON. & MILL CREEK BLVD. AND 152ND PL. S.E., ELEVATION = 365.20', CITY OF MILL CREEK MEAN SEA LEVEL.

ORIGINAL SITE PLAN PREPARED BY:
MITHLIN PARTNERS
414 OLIVE WAY SUITE 500
SEATTLE, WA 98101

(MINOR MODIFICATIONS BY GROUP FOUR, INC.)

TOPOGRAPHY PREPARED BY:
W & H PACIFIC
198-112TH AVE. NE
P.O. BOX C-87304
BELLEVUE, WA 98009-7730

SIGNAGE SCHEDULE

PLAN CODE	MUTCD CODE	SIGN TYPE	QTY.
①	R1-1	STOP SIGN	4
②	R2-1	20 MPH	2
③	SNS	STREET NAME SIGN	1

REVISIONS

DATE: 10/19/99

BY: ABC

REVISION PER CITY COMMENTS

NO. 1.

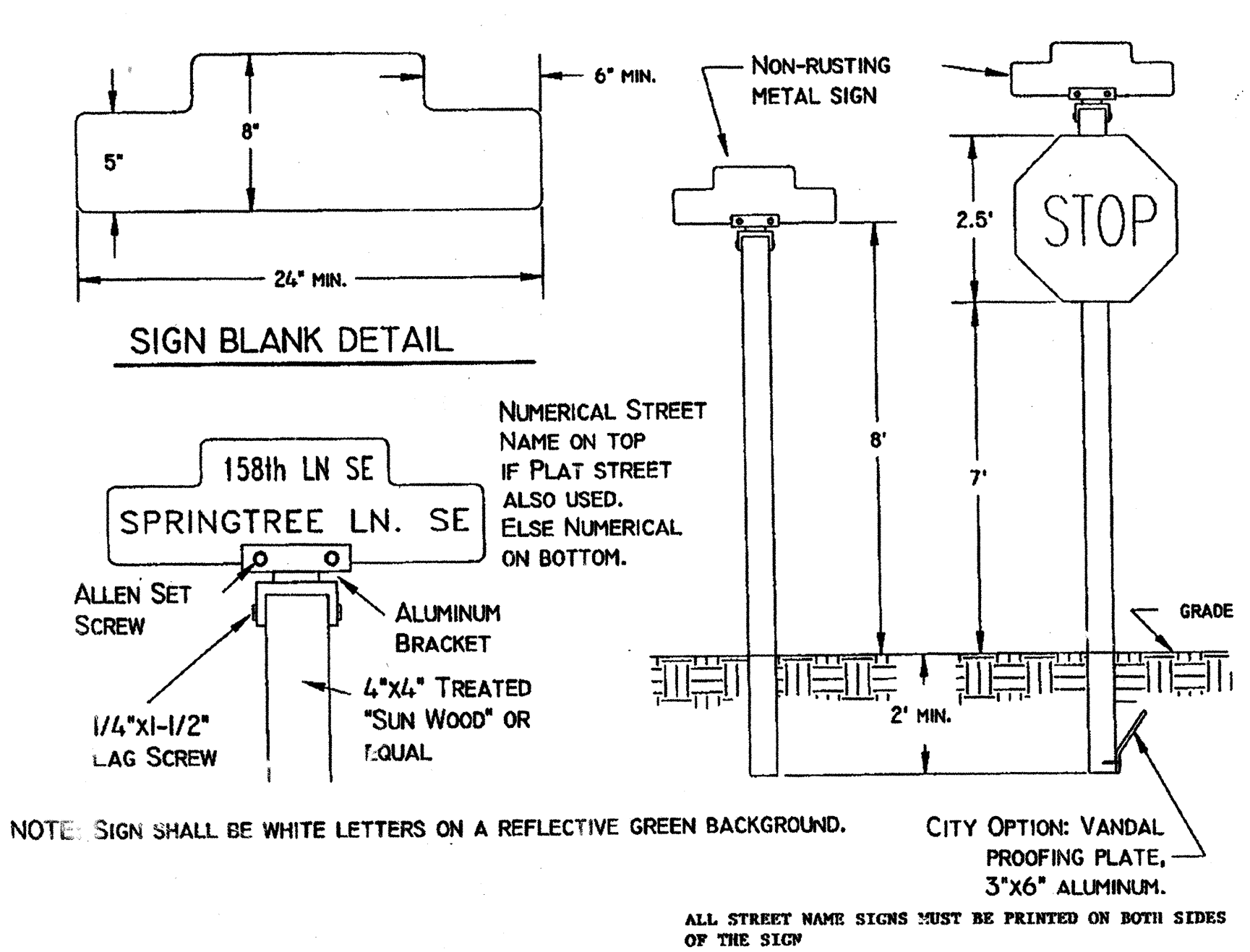
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PRINTED: 10/19/99 10:00 AM

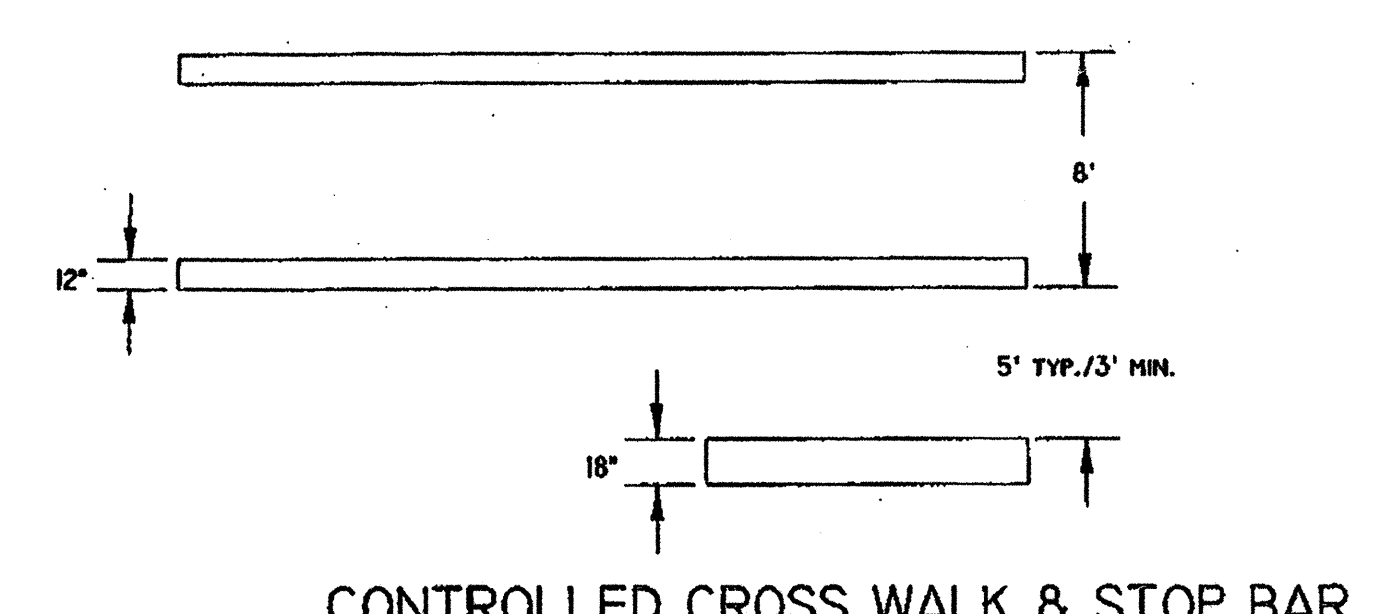
GROUP FOUR, Inc.
16030 JUANITA-WOODVILLE WAY NE
BOTHELL, WASHINGTON 98011
(206) 362-4244 • FAX (206) 362-3819
SURVEYING ENGINEERING PLANNING MANAGEMENT

DRAWN BY: ABC
CHECKED BY: ABC
DATE: 10/18/99

APPROVED BY: DATE:



STREET NAME SIGN DETAIL
CITY OF MILL CREEK STD. PLAN SGN01



NOTES
1. CROSS WALKS AND STOP BARS SHALL BE THERMO-PLASTIC WITH GLASS BEAD SURFACE. PAINT WILL BE ALLOWED ONLY WITH APPROVAL BY THE CITY ENGINEER AND SHALL BE A NO HEAT, INSTANT DRY PAVEMENT MARKING.
2. PAVEMENT SHALL BE SWEEPED BEFORE APPLICATION.
3. LOCATIONS SHALL BE APPROVED BY THE CITY ENGINEER.

CROSSWALK AND STOP BAR DETAILS
CITY OF MILL CREEK STD. PLAN STR20

REVIEWED AND DETERMINED TO BE IN COMPLIANCE WITH THE CONDITIONS OF APPROVAL OF PRELIMINARY PLAT 98-52 AS APPROVED BY THE CITY COUNCIL.

12-1-99
COMMUNITY DEVELOPMENT DIRECTOR

12/1/99
CITY ENGINEER

CALL 48 HOURS BEFORE YOU DIG
1-800-424-5555

CITY OF MILL CREEK
ACCEPTED FOR CONSTRUCTION

UNITED DEVELOPMENT CORPORATION
MILL CREEK "23"
CHANNELIZATION PLAN

CITY OF MILL CREEK

WASHINGTON

SHT C8 OF 8

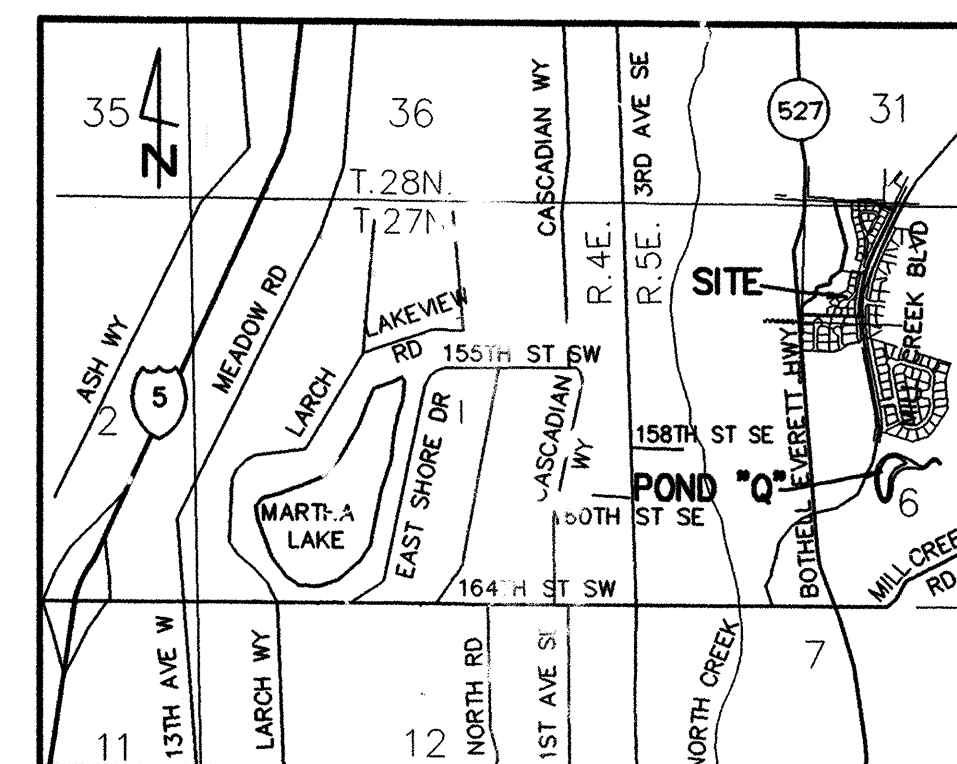
JOB NO: 98-0006

NW 1/4, NE1/4, SEC. 6, TWP. 27 N., RGE. 5 E., W.M.

MILL CREEK "23" SITE:
TRACT 1 AND 2 OF MILL CREEK -21, ACCORDING TO THE PLAT
THEREOF, RECORDED IN VOLUME 63 OF PLATS, PAGES 222 AND 223,
AUDITOR'S FILE NO. 9705015002 RECORDS OF SNOHOMISH COUNTY,
WASHINGTON.

EXCEPT THAT PORTION OF SAID TRACT 2, MILL CREEK - 21
DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF SAID TRACT 2, THENCE SOUTH 26°38'52" WEST ALONG THE EASTERLY LINE OF SAID TRACT 2, A DISTANCE OF 30.00 FEET, THENCE NORTH 63°21'08" WEST A DISTANCE OF 140.00 FEET; THENCE NORTH 26°38'52" EAST A DISTANCE OF 20.00 FEET; THENCE NORTH 63°21'08" WEST A DISTANCE OF 95.99 FEET TO THE NORTH LINE OF SAID TRACT 2, THENCE SOUTH 88°20'37" EAST ALONG SAID NORTH LINE A DISTANCE OF 260.36 FEET TO THE POINT OF BEGINNING.



VICINITY MAP
NO SCALE

DATUM: CITY OF MILL CREEK MEAN SEA LEVEL
DATUM, ALSO USC&GS MSL DATUM.

BENCH: TOP OF PUNCH MARK IN BRASS DISK @ P.C.
MON JUST SOUTH OF INTERSECTION MON. &
MILL CREEK BLVD. AND 152ND PL. S.E.,
ELEVATION = 365.20', CITY OF MILL CREEK
MEAN SEA LEVEL.

ORIGINAL MILL CREEK "23" SITE PLAN PREPARED BY:

MITHLIN PARTNERS
414 OLIVE WAY SUITE 500
SEATTLE, WA 98101

(MINOR MODIFICATIONS BY GROUP FOUR, INC.)

MILL CREEK "23" TOPOGRAPHY PREPARED BY:

W & H PACIFIC
198-112TH AVE. NE
P.O. BOX C-97304
BELLEVUE, WA 98009-7730

POND "Q" TOPOGRAPHY OBTAINED BY:

W & H PACIFIC
"OFF-SITE STORM DRAINAGE POND "Q" PLAN",
HAVING AND ENGINEERING SEAL DATED 6-23-99

GROUP FOUR, INC.
SUPPLEMENTED THIS TOPOG. BY THE WETPOND
AND DISCHARGE STRUCTURE

- C1. COVER SHEET
- C2. OFF-SITE DETENTION POND "Q" MODIFICATIONS
- C3. FRONTAGE IMPROVEMENT & OFF-SITE POND
NOTES & DETAILS

OWNER/DEVELOPER

**UNITED DEVELOPEMENT CORPORATION
15714 COUNTRY CLUB DRIVE
MILL CREEK, WA 98012
PHONE: (425) 743-6136
CONTACT: TONY LEDVINA**

SURVEYOR/ENGINEER

GROUP FOUR, INC.
16030 JUANITA-WOODINVILLE WAY NE
BOTHELL, WA. 98011
PHONE: (425)775-4581 OR (206)362-4244
PROJ. MGR.: JOHN MIRANTE

SEWER

ALDERWOOD EWER AND WATER
PHONE: (206) 43-4605

WATER

ALDERWOOD SEWER AND WATER
PHONE: (206) 43-4605

POWER

SNOHOMISH COUNTY P.U.D.
PHONE: (800) 562-9142

NATURAL GAS

PUGET SOUND ENERGY
PHONE: (425)454-2000

PHONE

G. T. E.
PHONE: (206) 10-4126

REVIEWED AND DETERMINED
WITH THE CONDITIONS OF
PLAT 98-52 AS APPROVED

PLANNING
(ELIMINATED)
COUNCIL

William S. Kinn 12-1-89
COMMUNITY DEVELOPMENT DIRECTOR DATE

CITY OF MILL CREEK
ACCEPTED FOR CONSTRUCTION

Craig Stephens 12/1/99
CITY ENGINEER DATE

**CALL 48 HOURS
BEFORE YOU DIG
1-800-424-5555**

11-9-99

STATE OF WASHINGTON
JON R. VANIER
REGISTERED PROFESSIONAL ENGINEER
287335
EXPIRES 11-9-2002

GA GROUP FOUR, Inc.
16030 JUANITA—WOODINVILLE WAY NE
BOTHELL, WASHINGTON 98011
* (206) 362-4244 * FAX (206) 362-3319
ENGINEERING PLANNING MANAGEMENT
CHECKED BY: APPROVED BY:
DATE: DATE:

UNITED DEVELOPMENT CORPORATION
MILL CREEK "23"
MONTAGE IMPROVEMENT PLAN
COVER SHEET
WASHINGTON

SHT C1

JOB NO:98-8006

AS-BUILT

MAGNOLIA

HDEV- 2439

CB TYPE 2
TOP=348.25
INV.=340.90(30" CMP IN NLY)
INV.=340.79(36" CMP OUT SE'LY)

EXISTING 36" CMP
CULVERT OUT
INV.=338.44

QUARRY SPALL AND
GRAVEL FILTER
WINDOW (DESIGN)

(AB) N. E. BERM
EL.=319.01

(AB) NW CORNER
EL.=318.50

WETPOND

EXIST. VOL. = 29,926 CF
VOL. REQ'D = 29,185 CF
VOL. PROV'D = 29,882 CF

AS-BUILT VOL. PROV'D = 27,555 CF

ROCK-LINED
CHANNEL (DESIGN)

IE=319.25
(DESIGN)
11' x 10" ADS
HALF PIPE CHANNEL
(DESIGN)
IE=319.07
(DESIGN)

DETENTION POND "Q"

S. E. BERM (AB)
EL.=318.87

STABILIZE EMBANKMENT
AS REQUIRED (SEE NOTE 2)

SW CORNER (AB)
EL.=318.81

EXISTING EDGE
OF RIPRAP

EX. 6" PVC
IE=315.92
3' X 7' ±
OPEN CONC.
C.B. BOX

EXISTING EDGE
OF RIPRAP

1
C3
OUTLET STRUCTURE

APPROXIMATE BOUNDARY
OF WETLAND AREA (DESIGN)

APPROXIMATE LIMIT
OF POND "Q"

TOP OF SIDE CHANNEL

TOE ± WIDE CREEK

EX. TYPE 2 CB 48"
TOP=317.90 (OPEN)
IE=315.89 18" CMP E.
IE=315.92 6" PVC W.

NORTHERLY EDGE OF OUTFALL CHANNEL

CENTERLINE CHANNEL

EX. 18" ADS
IE=314.69 W.

TOP BERM

TOE BERM

TOE BERM

TOE BERM

TOE BERM

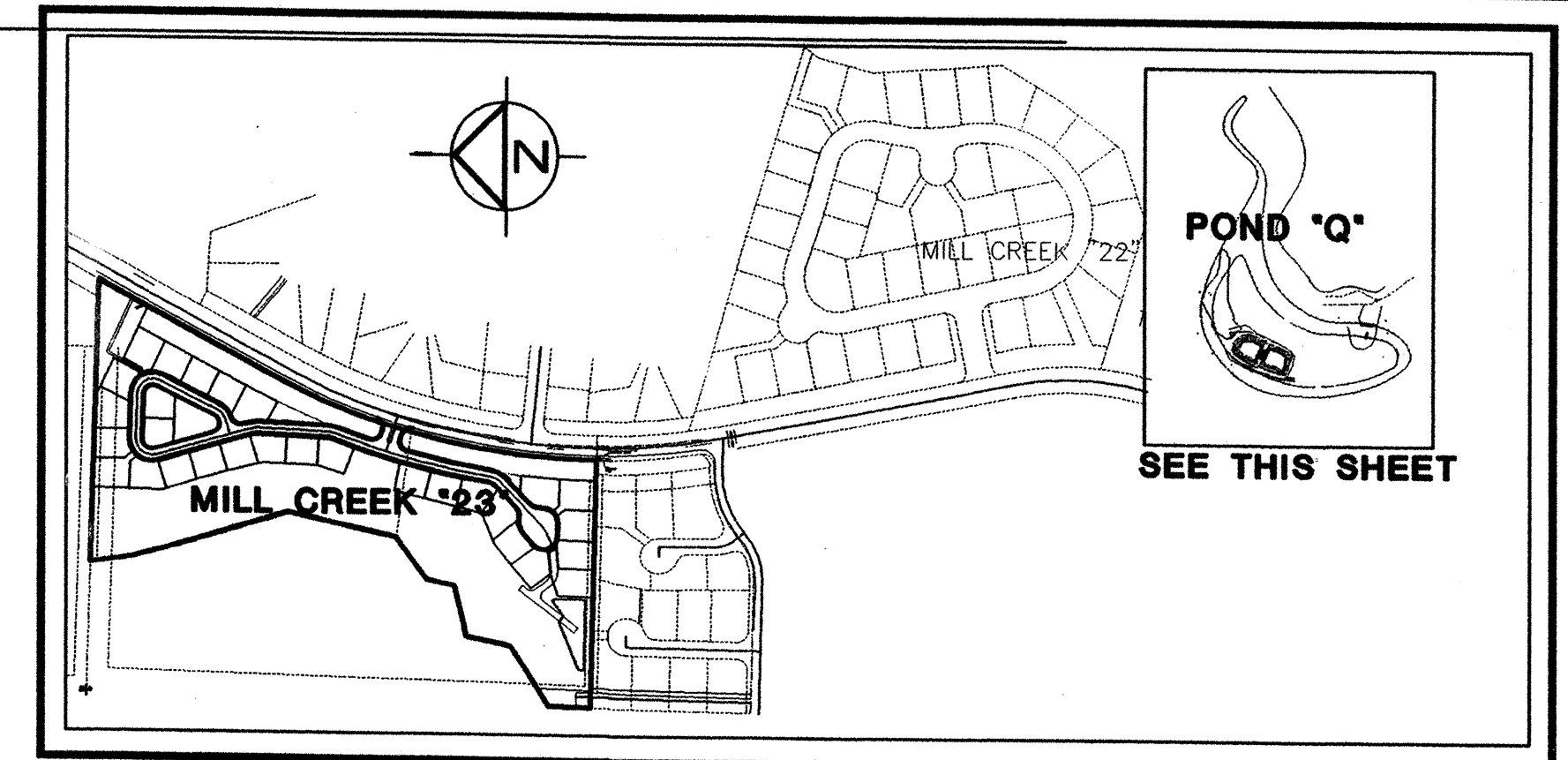
TOE BERM

TOE BERM

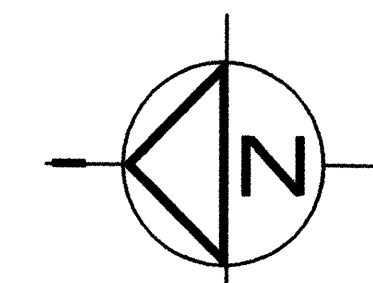
TOE BERM

TOE BERM

TOE BERM



KEY MAP
SCALE: 1"=400'



1"=50'
CONTOUR INTERVAL = 2'
50 0 50 100

NOTE:

1. TOPOGRAPHY HAS BEEN DIGITIZED FROM THE OFF-SITE STORM DRAINAGE POND "Q" PLAN, PREPARED BY W & H PACIFIC HAVING AN ENGINEERING SEAL DATED 6-23-98 (DEPICTED BY LONG DASHED LINES AND ITEMS LABELED AS "DESIGN"). GROUP FOUR HAS SUPPLEMENTED THIS DATA, PERFORMING A DETAILED TOPOGRAPHY OF THE WETPOND AND POND DISCHARGE STRUCTURE (DEPICTED BY SHORT DASHED CONTOUR LINES).
2. DISTURBED AREAS SHALL BE TEMPORARILY STABILIZED BY APPLYING MULCH AT A MINIMUM THICKNESS OF 2 INCHES. IMMEDIATELY FOLLOWING FINISH GRADING, PERMANENT VEGETATION, CONSISTING OF FAST GERMINATING GRASSES SHALL BE APPLIED (MINIMUM 80# PER ACRE).

REVIEWED AND DETERMINED TO BE IN COMPLIANCE
WITH THE CONDITIONS OF APPROVAL OF PRELIMINARY
PLAT 98-52 AS APPROVED BY THE CITY COUNCIL.

William D. Dumas 12.1.99
COMMUNITY DEVELOPMENT DIRECTOR DATE

CITY OF MILL CREEK
ACCEPTED FOR CONSTRUCTION

Chris H. Hines 12/1/99
CITY ENGINEER DATE

"AS-BUILT"

* NOTE: WETPOND UNDERLIES REED
Chris H. Hines 12.1.2001
ENGINEER DATE

**CALL 48 HOURS
BEFORE YOU DIG
1-800-424-5555**

GROUP FOUR, Inc.
16030 JUANITA-WOODINVILLE WAY NE
BOOTHILL, WASHINGTON 98011
(425) 775-4581 • (206) 362-4244 • FAX (206) 362-3819
SURVEYING ENGINEERING PLANNING MANAGEMENT

UNITED DEVELOPMENT CORPORATION
MILL CREEK "23"
OFF-SITE DETENTION POND "Q"
MODIFICATIONS

SHT C2 OF C3
JOB NO: 98-80

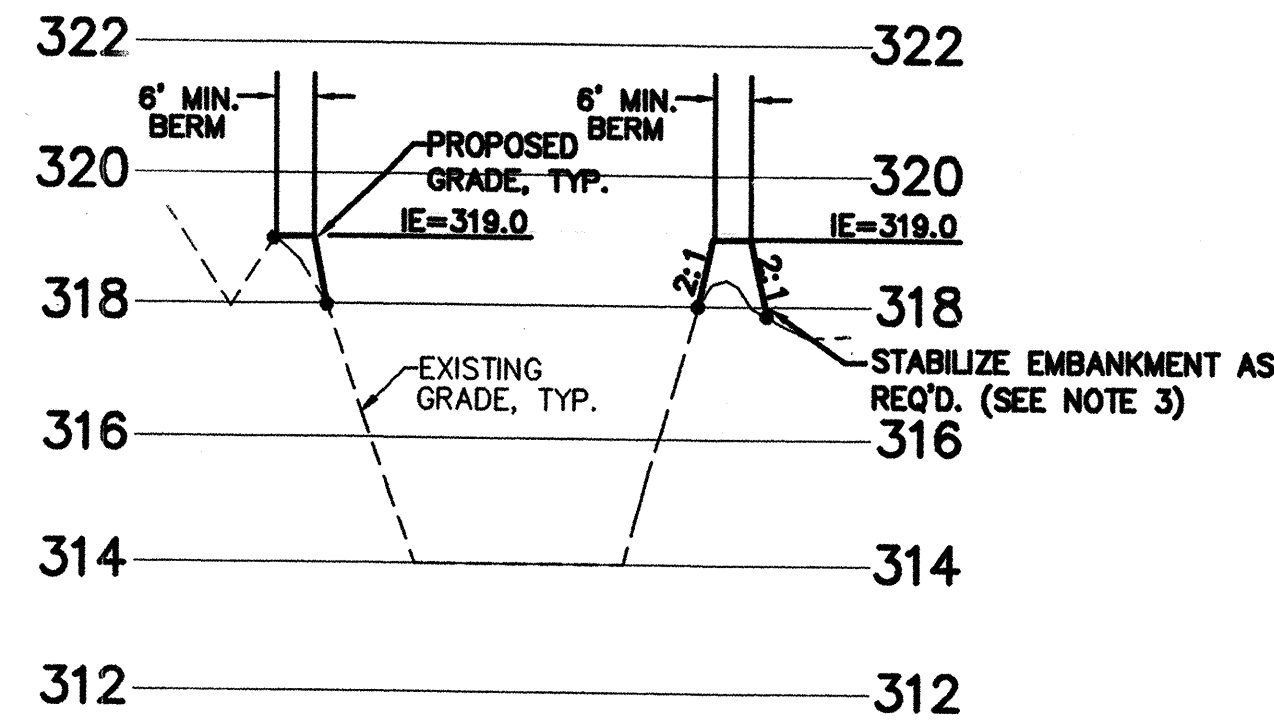
AS-BUILT

MAGNOLIA

HDEV-2440

GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY OF MILL CREEK STANDARDS AND SPECIFICATIONS AND WASHINGTON STATE DEPARTMENT OF TRANSPORTATION CURRENT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
2. ALL WORK WITHIN THE SITE SHALL BE SUBJECT TO THE INSPECTION OF THE CITY ENGINEER OR HIS/HER DESIGNATED REPRESENTATIVE.
3. PRIOR TO BEGINNING ROAD CONSTRUCTION, THE APPLICANT, HIS/HER ENGINEER AND ROAD CONTRACTOR SHALL MEET WITH THE DEPARTMENT OF PUBLIC WORKS FOR A PRE-CONSTRUCTION MEETING.
4. A COPY OF THESE APPROVED PLANS MUST BE ON THE SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
5. PRIOR TO ANY SITE CONSTRUCTION TO INCLUDE CLEARING/LOGGING OR GRADING THE SITE/LOT CLEARING LIMITS SHALL BE LOCATED AND FIELD IDENTIFIED BY THE PROJECT SURVEYOR/ENGINEER AS REQUIRED BY THESE PLANS AND APPROVED BY THE CITY.
6. THE TEMPORARY EROSION/SEDIMENTATION CONTROL FACILITY SHALL BE CONSTRUCTED PRIOR TO ANY GRADING OR EXTENSIVE LAND CLEARING IN ACCORDANCE WITH THE APPROVED TEMPORARY EROSION/SEDIMENTATION CONTROL PLAN. THESE FACILITIES MUST BE SATISFACTORILY MAINTAINED UNTIL CONTRACTION AND LANDSCAPING IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED.
7. TRENCH BACK FILL OF NEW UTILITIES AND STORM DRAINAGE FACILITIES SHALL BE COMPACTED TO 95 % MAXIMUM DENSITY (MODIFIED PROCTOR) UNDER ROADWAYS AND 90 % MAXIMUM DENSITY (MODIFIED PROCTOR) OFF ROADWAYS, AS SPECIFIED IN SECTION 2-03.3(14)C COMPACTING EARTH EMBANKMENTS METHOD B.
8. LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. UTILITIES SHOWN HERE ARE FOR THE PURPOSES OF ASSISTING THE CONTRACTOR IN LOCATING SAID UTILITIES. CONTRACTOR SHALL CONTACT UNDERGROUND UTILITIES LOCATION CENTER (1-800-424-5555) 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION AND OBTAIN ON-SITE UTILITIES LOCATIONS.
9. THE CONTRACTOR SHALL COMPLY WITH ALL OTHER NECESSARY PERMITS AND REQUIREMENTS BY THE CITY OF MILL CREEK GOVERNING AUTHORITY/AGENCY.
10. DISTURBED SOIL SHALL BE HYDRO-SEEDED IF NOT WORKED WITHIN 30 DAYS.



- NOTES:
1. ALL FILL TO BE FREE OF DELETERIOUS AND OVERSIZED MATERIAL, COMPRISED OF SILTY SAND WITH A MINIMUM FINES CONTENT OF 25% OR GLACIAL TILL. BERMS SHALL BE COMPACTED TO 95% STANDARD PROCTOR IN LIFTS NOT TO EXCEED 12".
 2. THE PROJECT GEOTECHNICAL ENGINEER SHALL BE PRESENT DURING POND CONSTRUCTION, TO EVALUATE THE NECESSITY OF POND LINERS/INTERCEPTOR DRAINS TO PREVENT GROUNDWATER FROM ENTERING THE FACILITY.
 3. DISTURBED AREAS SHALL BE TEMPORARILY STABILIZED BY APPLYING MULCH AT A MINIMUM THICKNESS OF 2 INCHES. IMMEDIATELY FOLLOWING FINISH GRADING, PERMANENT VEGETATION, CONSISTING OF FAST GERMINATING GRASSES SHALL BE APPLIED (MINIMUM 80# PER ACRE).

A WETPOND SECTION

SCALE: 1"= 30' H
1"= 3' V

STORM DRAINAGE NOTES

1. ALL PIPE SHALL BE PLACED ON STABLE EARTH, OR IF IN THE OPINION OF THE CITY INSPECTOR, THE EXISTING FOUNDATION IS UNSATISFACTORY, THEN IT SHALL BE EXCAVATED BELOW GRADE AND BACK FILLED WITH A CITY APPROVED MATERIAL TO SUPPORT THE PIPE.
2. THE BACKFILL SHALL BE PLACED EQUALLY ON BOTH SIDES OF THE PIPE OR PIPE-ARCH IN LAYERS WITH A LOOSE AVERAGE DEPTH OF 6", MAXIMUM DEPTH 8". THOROUGHLY TAMPING EACH LAYER. THESE COMPACTED LAYERS MUST EXTEND FOR ONE DIAMETER ON EACH SIDE OF THE PIPE OR TO THE SIDE OF THE PIPE OR TO THE SIDE OF THE TRENCH. MATERIALS TO COMPLETE THE FILL OVER PIPE SHALL BE THE SAME AS DESCRIBED. (REFER TO SPECIFICATION 2-03.3(14)C, METHOD b & c.
3. ALL CATCH BASINS TO BE TYPE 1 UNLESS OTHERWISE NOTED.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL MANHOLE, INLET, AND CATCH BASIN FRAMES AND GRATES JUST PRIOR TO POURING OF CURBS AND PAVING.
5. ALL CATCH BASINS WITH A DEPTH OVER 5.0 FEET TO THE FLOW LINE SHALL BE A TYPE 2 CB (MANHOLE).
6. ALL TYPE 2 CATCH BASINS MANHOLES AND ALL INLET AND CATCH BASINS OUTSIDE OF THE PUBLIC R/W SHALL HAVE LOCKING LIDS.
7. STANDARD LADDER STEPS SHALL BE PROVIDED IN ALL CATCH BASINS/MANHOLES EXCEEDING 5 FEET IN DEPTH.
8. CATCH BASIN FRAME AND GRATES SHALL BE OLYMPIC FOUNDRY MODEL 5435 & 5435A. MODEL 5435A IS REFERRED TO AS A "THROUGH CURB INLET" ON THE PLAN. ALL SHALL BE VANE GRATE EXCEPT AT THRU CURB WHICH SHALL BE HERRINGBONE.
9. PRIOR TO SIDEWALK CONSTRUCTION, CONSTRUCT THE LOT DRAINAGE AND STUB OUTS AND/OR BEHIND SIDEWALK DRAINS AS REQUIRED. POSITIVE DRAINAGE IS TO BE PROVIDED WHERE FEASIBLE WITH CONNECTION TO STORM DRAIN. STUB-OUTS SHALL BE MARKED WITH A 2"x4" AND LABELED "STORM".
10. STORM WATER RETENTION/DETENTION FACILITIES, STORM DRAINAGE PIPE AND CATCH BASINS SHALL BE VACTORED (FLUSHED AND CLEANED) PRIOR TO ACCEPTANCE.
11. PIPE SPECIFICATIONS: PIPE MATERIALS, JOINTS AND PROTECTIVE TREATMENT SHALL BE IN ACCORDANCE WITH WSDOT/APWA STANDARD SPECIFICATIONS SECTION 9.05 AND AASHTO AND ASTM DESIGNATIONS AS NOTED BELOW.

MATERIALS ALLOWED FOR STORM DRAIN LINES:

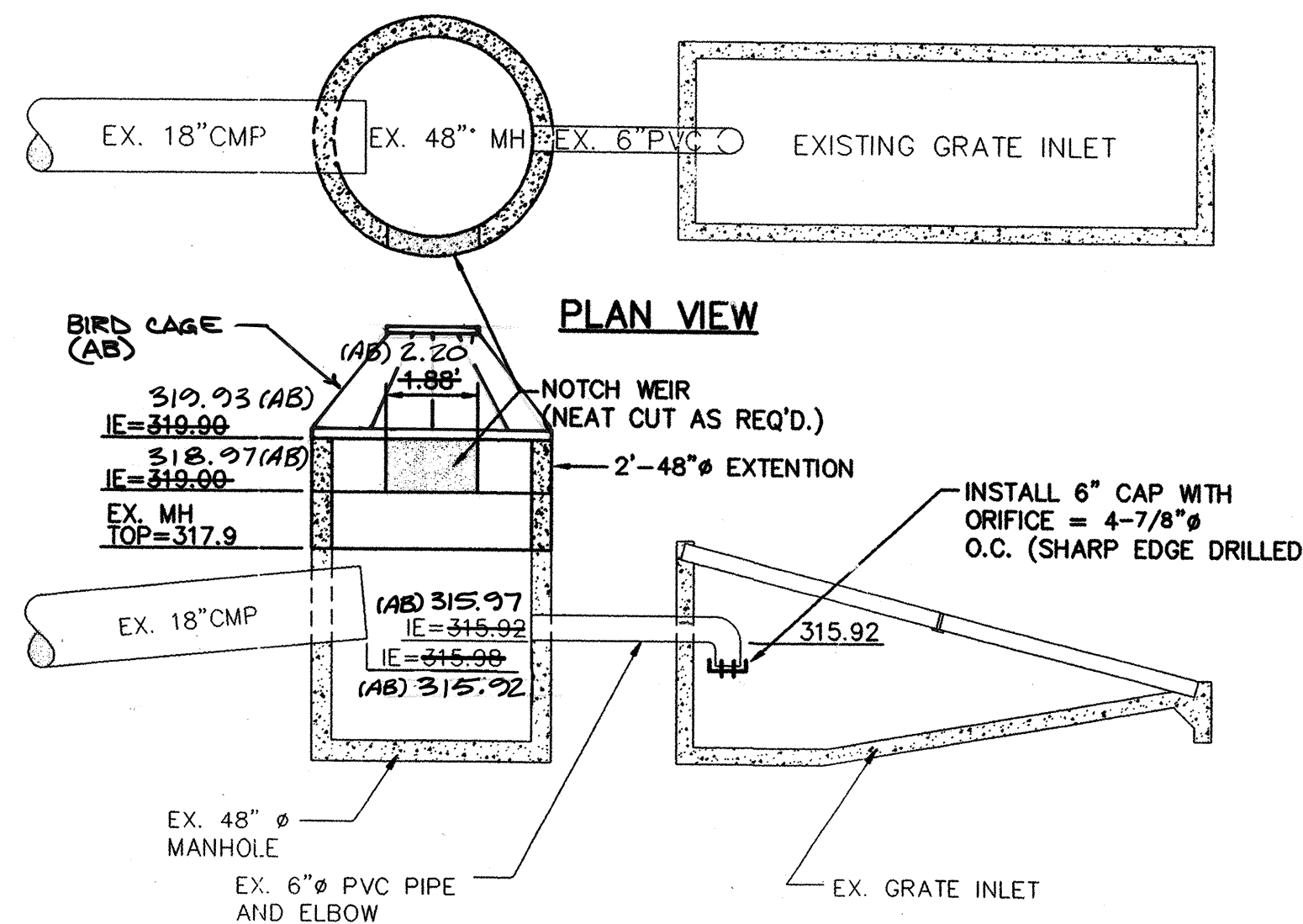
- PLAIN CONCRETE PIPE (CP)
- REINFORCED CONCRETE PIPE (RCP)
- ALUMINUM SPIRAL RIB PIPE (ASRP)
- PVC-3034

MATERIALS ALLOWED FOR 6" ROOF DRAIN LINES:

- ASTM 93034 PVC
- SDR35

ALLOWABLE JOINTS:

- CONCRETE PIPE SHALL BE RUBBER GASKETED.
- SPIRAL RIB PIPE SHALL BE "HAT BANDED" WITH NEOPRENE GASKETS.



1 OUTLET STRUCTURE

NO SCALE

CALL 48 HOURS
BEFORE YOU DIG
1-800-424-5555

REVIEWED AND DETERMINED TO BE IN COMPLIANCE WITH THE CONDITIONS OF APPROVAL OF PRELIMINARY PLAT 98-52 AS APPROVED BY THE CITY COUNCIL.

William D. Dunn 12-1-99
COMMUNITY DEVELOPMENT DIRECTOR DATE

CITY OF MILL CREEK
ACCEPTED FOR CONSTRUCTION

Craig Stephens 12/1/99
CITY ENGINEER DATE

"AS-BUILT"

John Thomas 2-6-2001
ENGINEER DATE

GI GROUP FOUR, Inc.
160.30 JUANITA-WOODVILLE WAY NE
BOTHELL, WASHINGTON 98011
(425) 775-4501 • (206) 362-4244 • FAX (206) 362-3819
SURVEYING ENGINEERING PLANNING MANAGEMENT
DRAWN BY: ABC CHECKED BY: APPROVED BY:
DATE: 6/18/99 DATE: DATE:

UNITED DEVELOPMENT CORPORATION
MILL CREEK "23"
FRONTAGE IMPROVEMENT & OFF-SITE
NOTES & DETAILS
WASHINGTON
CITY

SHT 03 OF 3
JOB NO. 98-8006

AS-BUILT MAGNOLIA HDEV-2441