CHAGRIN VALLEY ENGR.
SCAN DATE: _____
SCAN FILE: X:\North Hills...\Millstone Improvement Plans 1 2003
JOB#: 02016
(ALL SHTS except 2 & 13)

APPROVED
(FOR WATER MAINS ONLY)
OCT - 9 2003
Commissioner of Water

NOTICE

APPROVAL OF THIS PLAN BY THE CLEVELAND DIVISION OF WATER EXPIRES ONE YEAR AFTER DATE THEREOF.

CONTRACTOR TO NOTIFY DIVISION OF WATER 3 DAYS BEFORE STARTING WORK. CALL (216) 664-2342 BETWEEN 8 AM TO 4 PM.

APPROVAL SUBJECT TO GUARANTY: THE MAINTENANCE PERIOD TO BE TWO (2) YEARS AFTER THE ACCEPTANCE OF THE WHOLE WORK (Nuller of 1-15-1986)

CHAGRIN VALLEY ENGR.
SCAN DATE: _____
SCAN FILE: X:\North Hills...\Glencairn Improvement Plans 1 2003
JOB#: 02016
(ALL SHTS except 2 & 13)

CHAGRIN VALLEY ENGR.
SCAN DATE: _____
SCAN FILE: X:\North Hills...\Joslyn Improvement Plans 1 2003
JOB#: 02016

WATER WORKS (ALL SHTS except 2 & 13)

CANYON ESTATES

SITUATED IN THE TOWNSHIP OF SAGAMORE HILLS, COUNTY OF SUMMIT AND STATE OF OHIO, AND KNOWN AS BEING A PART OF ORIGINAL NORTHFIELD TOWNSHIP LOT NO. 86.

SANITARY SEWERS, STORM SEWERS, WATER AND PAVEMENT

D.O.E.S. PROJECT No. 1546

CLEVELAND SOUTHERLY WASTE WATER TREATMENT PLANT VIA THE C.V.I.

INDEX

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GENERAL

NHWD1. ALL WATER WORK SHALL BE IN ACCORDANCE WITH THE STANDARD CONSTRUCTION AND MATERIAL SPECIFICATIONS OF THE CITY OF CLEVELAND, DEPARTMENT OF PUBLIC UTILITES, DIVISION OF WATER (CWD) 1201 LAKESIDE AVENUE, CLEVELAND, OHIO 44114, AND THE NORTH HILLS WATER DISTRICT (NHWD). ALL PERMITS AND FEES ASSOCIATED WITH THE VARIOUS WATER WORK ITEMS SHALL BE INCLUDED IN THE UNIT PRICE FOR THE VARIOUS WATER WORK ITEMS AND SHALL BE THE RESPONSIBILITY OF THE PROJECT'S OWNER/DEVELOPER OR ITS CONTRACTOR.

HYDRANT

NHWD 5 ALL HYDRANTS SHALL BE OF THE "BREAKAWAY" TYPE, KENNEDY K81A AS PER THE CITY OF CLEVELAND'S STANDARDS. HYDRANTS SHALL BE SUPPLIED WITH NATIONAL STANDARD THREADS (NTS), ONE (1) 4 1/2" STEAMER NOZZLE, TWO (2) HOSE NOZZLES, PER THE NORTH HILLS WATER DISTRICT STANDARDS. A SIX (6) INCH HYDRANT ASSEMBLY SHALL INCLUDE THE TEE OR REDUCER AS APPLICABLE, VALVE, VALVE BOX, PIPE, AND A STANDARD 6" HYDRANT TO THE PROPER GRADE. THE UNIT PRICE BID FOR EACH HYDRANT SHALL INCLUDE ALL EXCAVATION, BEDDING, BLOCKING, BACKFILL, MATERIAL, LABOR, PIPE OFFSET, IF NECESSARY, AND ALL OTHER INCIDENTAL ITEMS TO COMPLETE SUCH WORK. THE THREADS OF THE HYDRANT CAPS SHALL BE GREASED BY THE CONTRACTOR PRIOR TO THE HYDROSTATIC TEST OF THE SYSTEM.

WATER MAIN

NHWD 6 ALL WATER MAIN TRENCH UNDER EXISTING OR PROPOSED PAVEMENT SHALL BE BACKFILLED AS PER THE PLAN DETAIL. ALL WATER MAIN PIPE SHALL BE AS A CLASS 52 CEMENT LINED DUCTILE IRON PIPE WITH A RUBBER RING GASKET, COMPRESSION TYPE JOINT UNLESS OTHERWISE NOTED. THE UNIT PRICE BID PER LINEAR FOOT OF WATER MAIN SHALL INCLUDE ALL EXCAVATION BEDDING, BLOCKING, TRENCH BACKFILL MATERIALS, COMPACTION AS REQUIRED, LABOR PIPE AND ALL OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE SUCH WORK. ALL WATER MAINS IN EASEMENTS SHALL BE POLYETHYLENE WRAPPED PER NORTH HILLS WATER DISTRICT REQUIREMENTS.

TESTING AND INSPECTION

NHWD7. THE CONTRACTOR SHALL SUPPLY PROOF TO THE NHWD ENGINEER AND/OR OWNER HAVING MADE APPLICATION AND PAYMENT TO THE CWD FOR ANY AND ALL TESTING, CHLORINATION, AND TAPPING OF THE WATER MAIN AND APPURTENANCES. ALL EXPENSES CONNECTED WITH THE AFOREMENTIONED WORK SHALL BE BORNE BY THE CONTRACTOR. ALL WATER NECESSARY FOR THE SATISFACTORY COMPLETION OF ALL CLASSES OF WORK SHALL BE FURNISHED BY THE CONTRACTOR AT HIS EXPENSE. THE NHWD ENGINEER SHALL BE NOTIFIED A MINIMUM OF SEVENTY–TWO 72 HOURS BEFORE ANY SUCH WORK IS DONE ON THE WATER MAIN SO THAT HE OR HIS AUTHORIZED REPRESENTATIVE MAY BE PRESENT. ANY OF THE AFOREMENTIONED NOT COMPLIED WITH, OR DONE IN THE ABSENCE OF THE NORTH HILLS WATER DISTRICT ENGINEER, WILL NOT BE ACCEPTED AND SHALL BE RETESTED AT THE CONTRACTOR'S EXPENSE.

NHWD8. A SEVENTY–TWO (72) HOUR NOTICE SHALL BE GIVEN BY THE CONTRACTOR TO THE OFFICE OF THE CITY OF CLEVELAND, DIVISION OF WATER, AND THE ENGINEER OF THE NORTH HILLS WATER DISTRICT IN ADVANCE OF THE START OF ACTUAL CONSTRUCTION WORK. ALL EXPENSES CONNECTED WITH THE INSPECTION OF THE WATER MAIN BY THE CITY OF CLEVELAND SHALL BE BORNE BY THE CONTRACTOR.

CLEVELAND DIVISION OF WATER NOTES FOR NEW WATER MAIN INSTALLATION

GENERAL:

1. ALL WATER WORK REQUIRED, WHETHER SHOWN ON THE PLANS OR AS DIRECTED BY THE CLEVELAND DIVISION OF WATER, SHALL BE AT THE EXPENSE OF THE PROJECT.

2. THE INFORMATION SHOWN ON THE CLEVELAND DIVISION OF WATER'S SUMMARY OF WORK/CHARGE LETTER AND STRIP MAPS ARE TAKEN FROM EXISTING AVAILABLE RECORDS, AND THEIR ACCURACY IS NOT GUARANTEED.

3. CALL THE INSPECTION AND ENFORCEMENT UNIT AT 216–664–2342 TO SCHEDULE A PRECONSTRUCTION MEETING. ONCE THE MEETING DATE AND TIME IS ESTABLISHED, CONTACT THE OFFICE OF NORTH HILLS WATER DISTRICT ENGINEER AT 440.349.3400 FOR AN INSPECTOR FROM NHWD TO BE PRESENT AT THE PRE–CONSTRUCTION MEETING. THE OPERATION OF ANY VALVE OR ALTERATION OF ANY PART OF THE WATER SYSTEM BY CONTRACTORS OR THEIR EMPLOYEES IS PROHIBITED WITHOUT THE SUPERVISION OF THE CLEVELAND DIVISION OF WATER INSPECTOR.

4. THE MUNICIPALITY SHALL REQUIRE THAT THE ENGINEER FOR THE NORTH HILLS WATER DISTRICT OBTAIN ACTUAL FIELD MEASUREMENTS OF THE MAIN DURING INSTALLATION AND SHALL FURNISH THE CWD INSPECTOR WITH RECORD PRINTS IN A FORM ACCEPTABLE TO THE DIVISION OF WATER. THE CLEVELAND DIVISION OF WATER WILL REQUIRE THE DELIVERY AND ACCEPTANCE OF TWO COPIES OF RECORD (AS BUILT) PRINTS BEFORE THE PRESSURE TEST AND CHLORINATION OF THE MAIN.

5. FOR THE PURPOSES OF CHLORINATION AND BACTERIOLOGICAL TESTING OF THE WATER MAINS THE CONTRACTOR SHALL PROVIDE AND INSTALL, AT EACH OF THE CHLORINATION PIT LOCATIONS SHOWN AND AT OTHER LOCATIONS DETERMINED BY THE DIVISION OF WATER, FLUSHING/SAMPLING TAPS OF SIZES TO BE DETERMINED BY THE DIVISION OF WATER. CHLORINATION PITS SHALL BE SIX (6) FOOT SQUARE MEETING OSHA STANDARDS.

6. A TWO YEAR WARRANTY, COMMENCING FROM THE DATE OF ACCEPTANCE OF THE FINAL CHLORINATION OF THE WATER MAIN INSTALLATION, SHALL BE PROVIDED BY THE BUILDER/DEVELOPER AND/OR CONTRACTOR FOR ALL WATER MAINS AND SERVICE CONNECTION WORK PERFORMED BY THE CONTRACTOR, INCLUDING RETAPS, SHOULD ANY LEAKS OCCUR AND REPAIRS BE REQUIRED DUE TO DEFECTIVE MATERIAL OR POOR WORKMANSHIP.

7. USE BACKFILL MATERIAL AS SPECIFIED AND COMPACT SUFFICIENTLY IN THOSE AREAS WHERE EXISTING MAINS AND WATER SERVICE CONNECTIONS ARE EXPOSED. (SEE DIVISION OF WATER STANDARD DETAIL STD–001).

8. ALL WATER MAINS AND APPURTENANCES THEREOF SHALL CONFORM WITH THE LATEST MATERIAL SPECIFICATIONS AND SHALL BE INSTALLED IN ACCORDANCE WITH THE CONSTRUCTION AND STANDARD DETAILS OF THE CITY OF CLEVELAND, DIVISION OF WATER.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING WATER MAINS AND APPURTENANCES THEREOF WHEN CONNECTING THE NEW WATER MAIN FOR THE HYDROSTATIC TEST. ALL REPAIRS TO DAMAGED EXISTING FACILITIES SHALL BE MADE BY THE CONTRACTOR, AT THE CONTRACTOR'S EXPENSE, TO THE SATISFACTION OF THE DIVISION OF WATER. (REFER TO THE THE ALTERNATE TEST DETAIL STD–002 AS NEEDED).

10. ALL HYDROSTATIC PRESSURE TESTING SHALL BE DONE BY THE CONTRACTOR IN THE PRESENCE OF THE DIVISION OF WATER'S INSPECTOR AND THE NORTH HILLS WATER DISTRICT INSPECTOR. THE HYDROSTATIC TEST PRESSURE SHALL BE 75 PSI ABOVE THE STATIC PRESSURE PREVAILING AT THE SITE, BUT IN NO CASE LESS THAN 150 PSI. THE PRESSURE TEST SHALL BE FOR A DURATION OF TWO (2) HOURS WITH THE PRESSURE BEING MAINTAINED WITHIN 5 PSI OF THE REQUIRED TEST PRESSURE. SHOULD THE PRESSURE TEST FAIL THE CONTRACTOR SHALL FIND AND CORRECT THE DEFICIENCY(IES) TO THE SATISFACTION OF THE DIVISION OF WATER AND REPEAT THE TWO (2) HOUR PRESSURE TEST.

WATER MAINS:

11A. ALL PIPE, UNLESS OTHERWISE CALLED FOR , SHALL BE DUCTILE IRON, MINIMUM CLASS 52, CEMENT LINED HAVING PUSH–ON JOINTS WITH RADIALLY COMPRESSED RUBBER RING GASKET

11B. ALL FITTINGS, UNLESS OTHERWISE CALLED FOR, SHALL BE APPROVED DUCTILE IRON, CLASS 350, CEMENT LINED OR FUSION BONDED EPOXY COATED. ALL FITTINGS AND PIPE CONNECTED TO FITTINGS SHALL BE RESTRAINED USING A "RETAINED" MECHANICAL JOINT CONFORMING TO THE MATERIAL AND PERFORMANCE REQUIREMENTS OF ANSI/AWWA C–110/A21.10 AND ANSI/AWWA C–111/A21.11, OR "COMPACT" FITTINGS IN ACCORDANCE WITH ANSI/AWWA C–153/A21.53. EXCEPT FOR ANCHOR TEES, REDUCERS OR OTHER SPECIAL CIRCUMSTANCES WHEN DIRECTED BY CLEVELAND DIVISION OF WATER, ALL FITTINGS ARE TO HAVE BELL ENDS.

11C. ALL BOLTS AND NUTS ON ALL "RETAINED" MECHANICAL JOINTS SHALL HAVE FIELD APPLIED ONE (1) COAT OF BITUMASTIC PAINTING FOLLOWED BY AN ENCASEMENT OF POLYETHYLENE WRAPPING IN ACCORDANCE WITH ANSI/AWWA C–105/A21.5–88, CLASS "C", METHOD "B".

11D. WHERE SHOWN ON THE PLANS, OR WHEN OTHERWISE CALLED FOR, PIPE AND FITTINGS SHALL HAVE AN APPROVED "TYPE I" OR "TYPE II" BOLTLESS RESTRAINED PUSH–ON JOINTS TO THE LIMITS SHOWN ON THE DRAWINGS.

HYDRANTS:

12. IN ALL HYDRANT INSTALLATIONS THE CONTRACTOR SHALL FACE ALL HYDRANT'S 4" (STEAMER) NOZZLE TOWARD THE PAVEMENT PRIOR TO TESTING AND CHLORINATION OF WATER MAINS. CONTRACTOR SHALL CONSULT WITH THE LOCAL MUNICIPALITY'S ENGINEERING OR SERVICE DEPARTMENT TO OBTAIN HYDRANT MODEL AND NOZZLE THREAD REQUIREMENTS IF NOT INDICATED ON THE APPROVED PLANS.

CONNECTIONS:

13. WATER CONNECTIONS SHOWN ON THESE DRAWINGS ARE FOR REFERENCE ONLY AND ARE NOT PART OF THE WATER MAIN APPROVAL. ADDITIONAL PERMITS FOR SERVICE CONNECTIONS MUST BE OBTAINED FROM THE DIVISION OF WATER PRIOR TO INSTALLATION OF ANY PORTION OF THE SERVICE CONNECTIONS IT IS THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR PERMITS FOR ALL SIZE WATER SERVICE CONNECTIONS BEFORE PERFORMING ANY WORK. THE AMOUNT OF THE CHARGES CAN BE OBTAINED FROM THE DIVISION OF WATER, PERMITS AND SALES SECTION AT 216–664–2444 EXT. 5203.

14. ONE INCH SERVICE CONNECTIONS SHALL BE PERMITTED TO SERVICE HOMES BASE ON THE FOLLOWING CRITERIA

* PEAK FLOW DEMANDS DO NOT EXCEED 25 GPM FOR AN INDIVIDUAL HOME/UNIT, INCLUSIVE OF ALL USAGE (FIRE, DOMESTIC AND/OR IRRIGATION) AND

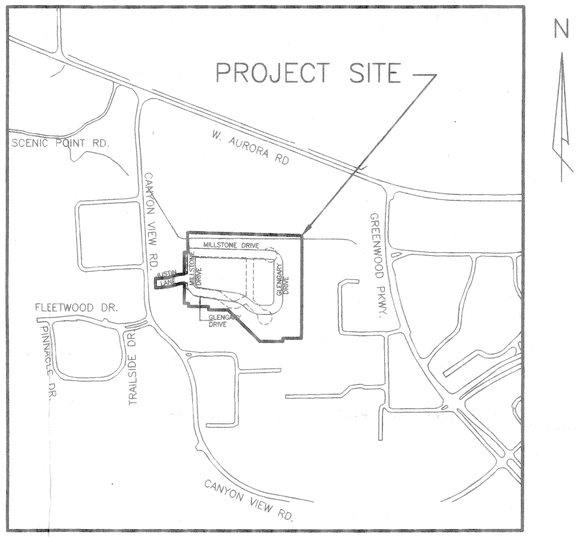
* LENGTH OF ONE INCH CONNECTION DOES NOT EXCEED 50 FEET AS MEASURED FROM THE MAIN TO THE CURB VALVE.

ANY SERVICE REQUESTS DIFFERING FROM THE STATED CRITERIA SHALL REQUIRE THE SUBMITTAL OF A COMPLETE WATER SERVICE APPLICATION. PEAK DEMANDS ARE TO BE ASSESSED ON APPLICATION AND SETBACKS ARE TO BE SHOWN ON AN ACCOMPANYING SITE PLAN. SITE PLANS SHALL SHOW WATER METER VAULTS IN THE RIGHT OF WAY OR IN AN EASEMENT CONTIGUOUS TO THE RIGHT OF WAY FOR ANY HOMES/UNITS WITH SETBACKS GREATER THAN 150 FEET. EASEMENTS ARE TO BE PROVIDED WITH THE SERVICE CONNECTION APPLICATION SUBMITTAL. WHEN POSSIBLE.

15. ALL WATER MAIN CURB VALVE BOXES & METER VAULTS WILL BE INSTALLED IN GRASS AREA WHEN POSSIBLE.

EMERGENCIES

16. IF A WATER MAIN OR SERVICE CONNECTION BREAK OCCURS DURING CONSTRUCTION AND EMERGENCY ASSISTANCE IS REQUIRED, PLEASE NOTIFY THE DIVISION OF WATER AT 216.664.3060.



LOCATION MAP
1" = 400'

APPROVALS

SUMMIT COUNTY ENGINEER THIS 8TH DAY OF AUGUST, 2003.

Greg Bachman
GREG BACHMAN, P.E., P.S. – SUMMIT COUNTY ENGINEER

CITY OF CLEVELAND, DIVISION OF WATER THIS _____ DAY OF _____, 20___

_____

NORTH HILLS WATER DISTRICT THIS 2nd DAY September, 2003

Raymond D. Ward
SEYMOUR D. WARD

OHIO ENVIRONMENTAL PROTECTION AGENCY

WATER APPROVED BY LETTER DATED _____.

revised 8–06–03 COSE comments
revised 7–24–03 COSE, DOES, CLEV, NHWD comments
2636 Mike Orley\title\title.dwg

Kenneth W. Jensen 8-07-03
KENNETH W. JENSEN P.E. No. 24557

DEVELOPER
SANDSTONE, INC.
P.O. BOX 41153
BRECKSVILLE, OHIO 44141
CONTACT: MIKE ORLEY
330.670.9964 OFFICE
330.670.9968 FAX
330.805.3022 CELL

INSPECTORS COPY ONLY

THIS PROJECT WAS PREVIOUSLY APPROVED AS RESERVE AT GREENWOOD VILLAGE A PLAT OF THE SAME IS RECORDED IN R.N. 54084027 SHOWING INGRESS/EGRESSAND WATERLINE EASEMENTS AND COMMON AREAS

CANYON ESTATES

TITLE SHEET, LOCATION PLAN, NOTES

STATE OF OHIO · KENNETH W. JENSEN · 24557 · REGISTERED PROFESSIONAL ENGINEER

KENNETH JENSEN & ASSOCIATES INC
ENGINEERS & SURVEYORS
3543 DARROW RD. STOW, OHIO 44224
(330) 688–6049

DRWN. BY	DATE	JOB No.	DWG. No.
DLJ	5–5–03	2636	1

0303-592.1 N,H

BASIS FOR BEARINGS:
CENTERLINE OF CANYON VIEW DRIVE
AS MONUMENTED IS N 2° 22'55" W

40 0 40 80 120
Scale: 1" = 40'

- MONUMENT BOX FOUND
- CAPPED IRON BAR, OPEN TOP (O.T.) OR PINCH TOP IRON PIPE FOUND

BIBLIOGRAPHY:
TAX MAPS NORTHFIELD 20, 26
PLAT CABINET C, SL. 65-66
PLAT BOOK 93, PG. 1-40
PLAT BOOK 105, PG. 40-47
PLAT BOOK 106, PG. 1-6
DEEDS
D.V. 4018, P. 311
D.V. 4026, P. 629
D.V. 6186, P. 60
D.V 7358, P. 359
O.R. 259 - 635
SURVEYS BY D.T. KINGSLEY

PARKING SPACE
E.T. ELECTRIC TRANSFORMER
A/C AIR CONDITIONER
G GAS METER LOCATION
E ELECTRIC METER LOCATION

NUMBER	DELTA	R '	L '	T '	LC '	C.BRG
C1	17°23'24"	171.13	51.94	26.17	51.74	S 78°55'23" W
C2	16°35'50"	254.49	73.69	37.11	73.44	S 78°31'26" W
C3	15°48'49"	204.49	56.44	28.40	56.26	N 78°08'08" E
C4	17°23'24"	221.13	87.12	33.92	86.86	S 78°55'23" W

CANYON VIEW DRIVE, 50' (PLAT CAB. C, SL. 65-66)
GREENWOOD VILLAGE SUBDIVISION No. 8
PLAT CAB. D., SLIDES 15-16
N 02°22'55" W 922.91' OBS. (923.21' REC.)
826.04' OBS. (826.34' REC.)
N 02°22'55" E 107.69'
EAST 31.26'
SOUTH 119.56'
GREENWOOD VILLAGE COMMUNITY ASSOC., INC. O.R. 259 - 635 PAR. 2A
COMMON AREA 2 8,829.2948 S.F. 0.1981 Ac.
INGRESS & EGRESS EASEMENT, SANITARY SEWER and WATERLINE EASEMENT AS RECORDED ON PLAT FOR RESERVE OF GREENWOOD VILLAGE PLAT RECEPTION NUMBER 54084027
S 87°37'05" W 40.00'
JUSTIN LANE
VERIFY OPERABILITY OF G.V.
#4 I.B. IN MON. BOX FND. & USED
GREENWOOD VILLAGE COMMUNITY ASSOC., INC. O.R. 259 - 635 PAR. 2B
200' EASEMENT TO CEI D.V. 4752, PG. 518
20' SAN. SEWER EASEMENT D.V. 5249, PG. 374
NORTH 111.84'
71.67'
46.87'
EXIST 15" CMP
PROJECT SIGN 9' HIGH TOP OF SIGN EXIST 65.5
EXIST WATERLINE
EXIST 6" GV
EXIST 8" GV
EXIST 12" GV
EXIST 16" GV
EXIST 20" GV
EXIST 24" GV
EXIST 30" GV
EXIST 36" GV
EXIST 42" GV
EXIST 48" GV
EXIST 54" GV
EXIST 60" GV
EXIST 64" GV
EXIST 66" GV
EXIST 72" GV
EXIST 78" GV
EXIST 84" GV
EXIST 90" GV
EXIST 96" GV
EXIST 102" GV
EXIST 108" GV
EXIST 114" GV
EXIST 120" GV
EXIST 126" GV
EXIST 132" GV
EXIST 138" GV
EXIST

CANYON VIEW DRIVE 50' R/W

71.87'

FULL DEPTH SAWCUT

EX. 4" GAS
EX. 16" GAS

CONTRACTOR TO VERIFY OPERABILITY OF G.V. (TYPICAL)

INGRESS & EGRESS EASEMENT, SANITARY SEWER and WATERLINE EASEMENT AS RECORDED ON PLAT FOR RESERVE OF GREENWOOD VILLAGE PLAT RECEPTION NUMBER 54084027

Contractor shall notify Sagamore Hills Township prior to any construction within the R/W of Conyon View Drive

PROJECT SIGN

EASEMENT TO CEI D.V. 4752 PG. 518

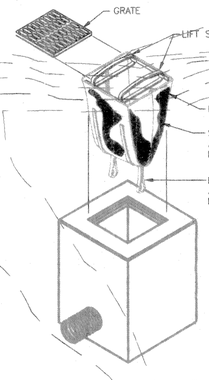
GREENWOOD VILLAGE COMMUNITY ASSOC., INC.
O.R. 259 – 635 PAR. 2B

GREENWOOD VILLAGE COMMUNITY ASSOC., INC.
O.R. 259 –/635 PAR. 2A

DANDY BAG® II
Installation and Maintenance Guidelines

Installation: remove the grate from catch basin. Stand the grate on end. Move top lifting straps out of the way and place Dandy Bag® II so that the grate is below the top straps and above the lower straps. Te grate should be cradled between the upper and lower straps. Holding the lifting devices, insert the grate into the inlet, being careful that the grate remains in place and being careful not to damage the Dany Bag II unit.

Maintenance: Remove all accumulated sediment and debris from the vicintiy of the unit after each storm event. After each storm event and regular intervals, look into the Dandy Bag® II. If the containment area is more than 1/3 full of sediment, the unit must be emptied. To empty the unit, using the lifting straps, lift the unit out of the inlet using the lifting straps and remove the grate. Transport the unit to an appropriate location for the removal of the contents. Holding the dumping straps on the outside of the bottom of the unit, turn the unit upside down, emptying the contents. Reinstall unit as above.



20 0 20 40
Scale 1" = 20'

- MONUMENT FOUND
- OPEN TOP (O.T.I.P.) OR P.T.I.P. (PINCH TOP) OR IRON BAR FOUND
- CONC. R/W MON. FND.
- CAPPED IRON BAR SET

JUSTIN LANE

EXIST. 8" D.I.W.M. CL. 52

EXIST 15" CMP

CLEARING LIMITS

CONTRACTOR TO ADJUST HYDANT TO GRADE (24"–26" ABOVE FINAL GRADE)

CONTRACTOR TO VERIFY OPERABILITY OF G.V. (TYPICAL)

EXIST. 8" G.V.M.

EXIST. 91.15 L.F. 18" PVC @ 0.95%

EXIST. 88.95 L.F. 24" P/C @ 0.45%

MILLSTONE DRIVE

20' SAN. SEWER EASEMENT D.V. 5249, PG. 374

JUNIPER HILL CONDOMINIUM PLAT BOOK 93, PAGES 1 – 40

J.A. CIRCELLI II D.V. 6186, PG. 60

CONTRACTOR TO ADJUST HYDANT TO GRADE (24"–26" ABOVE FINAL GRADE)

Rust clean 600 s.w.e @ 13+70 – 16 Lt.

Install new s.w.e @ +

START w.m. 10-24-03

13+79

APPROVED AS NOTED
BY SPH DATE 10/29/03
SEYMOUR D. WEISS & ASSOCIATES

CHECK DAM

SILT FENCE

48" PVC 602.72LT

48" PVC 602.72RT

1144 Millstone
1145 Millstone
1140 Millstone
1141 Millstone
1136 Millstone
1137 Millstone
1132 Millstone
1133 Millstone
7282 Glengary
7286 Glengary
7290 Glengary
7294 Glengary

F.F.=809.50 GAR 807.50
F.F.=807.00 GAR 805.67
F.F.=807.67 GAR 806.33
F.F.=808.33 GAR 807.00

JUNIPER HILL CONDOMINIUM PLAT BOOK 93, PAGES 1 – 40

EROSION CONTROL GENERAL NOTES

1. THE EROSION CONTROL MEASURES DESCRIBED HEREIN ARE TYPICAL THE CONTRACTOR SHALL USE THIS PLAN AS A GUIDE TO CONTROL EROSION. IN THE EVENT OF ADVERSE WEATHER CONDITIONS, ETC, ADDITIONAL MEASURES SHOULD BE TAKEN TO ESTABLISH AND MAINTAIN THE INTENT OF THIS PLAN.

2. CONTINUOUS MAINTENANCE WILL BE REQUIRED AS NECESSARY UNTIL PERMANANENT, STABLE VEGETATIVE COVER HAS BEEN ESTABLISHED AND EROSION HAS BEEN CONTROLLED, KTIS INCLUDES BUT NOT LIMITED TO RESEEDING, MULCHING, EARTH FILLING, ETC.

3. DISTURBED AREAS SHALL BE KEPT TO A MINIMUM WITH RESPECT TO AREAS EXPOSED AND TIME OF EXPOSURE. ALL TOPSOIL SHALL BE STOCKPILED.

4. THE ESTABLISHMENT OF PERMANENT GROUND COVER SHALL CONFORM TO THE SPECIFICATIONS FOR THIS PROJECT.

5. IF SMALL RILLS OR GULLIES DEVELOP, TEMPORARY DIVERSIONS OF EARTH FILL OR STRAW BALES SHOULD BE INSTALLED UNTI SATISFACTORY SEEDING IS ESTABLISHED.

6. TO ASSIST IN EROSION CONTROL, ALL TREES AND VEGETATION OUTSIDE OF GRADED AREAS SHALL REMAIN

7. TEMPORARY STRAW BALE SEDIMENT CONTROL DIKES SHALL BE PER DETAIL ON PLAN. SILT FENCE SHALL BE EXXON GTF-100S OR APPROVED EQUAL.

8. ADJACENT ROADS SHALL BE KEPT FREE OF DIRT AND DEBRIS AT ALL TIMES.

9. ALL EROSION CONTROL PRACTICES MUST MEET THE STANDARDS AND SPECIFICATION OF THE OHIO WATER MANAGEMENT AND SEDIMENT CONTROL MANUAL FOR URBANIZING AREAS.

10. ALL S.W.P.P.P. ITEMS MUST BE INSTALLED PRIOR TO ANY EARTH MOVING OPERATIONS.

SEQUENCE OF OPERATIONS

1. CONSTRUCT THE CHECK DAM AS SHOWN JUNE 5–JUNE 12

2. INSTALL SILT FENCE AS SHOWN ON THE PLANS JUNE 5–7

3. GENERAL GRADING CAN PROCEED AFTER ALL THE ABOVE IS DONE. JUNE 16–JULY 15

4. EACH STORM SEWER INLET SHALL BE PROTECTED IMMEDIATELY AFTER CONSTRUCTION AND BACKFILLING WITH DANDY BAG® II A MIRAFI COMPANY PRODUCT. SUPPLIER ID SITE SUPPLY 614.443.4545 (TERRY) COST IS $39.00 PER UNIT.

5. EACH EXISTING INLET SHALL BE PROTECTED A.S.A.P. WITH THE DANDY BAG® II.

NOTES

1. SEDIMENT PONDS/TRAPS AND PERIMETER CONTROLS SHALL BE IMPLEMENTED AS A FIRST STEP OF GRADING AND WITHIN 7 DAYS FROM START OF GRUBBING AND CONTINUE TO FUNCTION UNTIL UPLAND AREAS ARE STABLIZED.

2. DISTURBED AREAS WHICH WILL REMAIN UNWORKED FOR A PERIOD OF 21 DAYS OR MORE SHALL STABILIZED WITH SEEDING AND MULCHING OR OTHER APPROPRIATE MEANS WITHIN 7 DAYS.

3. EROSION CONTROL BLANKETS WITH MATTING WILL BE USED ON DITCHES GREATER THAN 1.5% AND ALL OTHER SLOPES GREATER THAN 6% GRADE.

4. BUILDER IS RESPONSIBLE FOR EROSION CONTRO; ON INDIVIDUAL LOT. BUILDER MUST FILE INDIVIDUAL NOTICE OF INTENT (NOI) WITH OHIO EPA.

5. NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF.

6. OFF–SITE VEHICLE TRACKING SEDIMENT SHALL BE MINIMIZED. CONSTRUCTION VEHICLES ARE LIMITED TO THE CONSTRUCTION ACCESS ROAD NOTED ON THE PLANS.

7. ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST MEET THE STANDARDS AND SPECIFICATIONS OF THE OHIO RAINWATER AND LAND DEVELOPMENT HANDBOOK (1996).

8. OTHER EROSION AND SEDIMENT CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS.

9. REGULAR INSPECTION AND MAINTENANCE WILL BE PROVIDED FOR ALL EROSION AND SEDIMENT CONTROL PRACTICES. PERMANENT RECORDS OF MAINTENANCE AND INSPECTIONS MUST BE KEPT THROUGHOUT THE CONSTRUCTION PERIOD. INSPECTIONS MUST BE MADE A MINIMUM OF ONCE EVERY 7 DAYS AND IMMEDIATELY AFTER STORM EVENTS GREATER THAN 0.5 INCHES OF RAIN IN A 24 HOUR PERIOD. PROVIDE NAME OF INSPECTOR, MAJOR OBSERVATIONS, DATE OF INSPECTIONS AND CORRECTIVE MEASURES TAKEN.

10. WINTERIZATION – ANY DISTURBED AREA THAT IS NOT GOING TO BE WORKED FOR 21 DAYS OR MORE MUST BE SEEDED AND MULCHED BY NOVEMBER 1 OR MUST HAVE A DORMANT SEEDING OR MULCH COVER APPLIED BETWEEN NOVEMBER 1 AND MARCH 1.

CANYON ESTATES CONDOMINIUMS
CANYON VIEW DRIVE, SAGAMORE HILLS, SUMMIT CO., OHIO

GRADING PLAN & SWPPP

Revised on 08/06/03 COSE, CLEV, NHWD comments
Revised on 08/20/03 DOES, COSE, CLEV, NHWD comments
Revised on 09/30/03

KENNETH JENSEN & ASSOCIATES
ENGINEERS & SURVEYORS
3543 DARROW RD STOW OHIO 44224
(330) 688–6049

DRWN. BY: DLJ | DATE: 5–5–03 | JOB No. 2636 | DWG. No. 4

STATE OF OHIO KENNETH W. JENSEN 24697 REGISTERED PROFESSIONAL

2636 Millstone Only\Grading 10150\2636grade.dwg

a

Scale 1" = 20'

MONUMENT FOUND

OPEN TOP (O.T.I.P.) OR P.T.I.P. (PINCH TOP) OR IRON BAR FOUND

CONC. R/W MON. FNBN

CAPPED IRON BAR SET

REMOVED 8" VALVE BOX

REMOVED 8" EXISTING 8"x8" CLAMPED & PLUGED BOTH ENDS @ 12+30

DELETED PLANS 8" G.V. @ 12+12.42 5.78 LT. (Con'd 35 WEEKS) 10-23-03

Removed 8"45° Bend @ 6+19

PLUGED AND CLAMPED ABANDON 8" W.M. @ 6+19

24'

DEFL. 8"x45° BEND @ 6+69.70 TO PROP. 8" WATERLINE

NEW 8" G.V. @ 6+16.50

58'

66.50

1111 Millstone

F.F.=813.33 GAR 812.00 BASEMENT 804.67

43' E of MH 7

8" SOLID SLEEVE @ 6+77 (TIE IN)

174'

8"x8" TEE @ 7+51

1107 Millstone

F.F.=814.00 GAR 812.67 BASEMENT 805.33

1103 Millstone

F.F.=814.67 GAR 813.33 BASEMENT 806.00

8" SAN. LAT. STA. 7+51.47, 37.15' LT. 8" 10 L.F.

8"x8" TEE @ 7+

1129 Millstone

F.F.=809.50 GAR 807.50 BASEMENT 800.83 HUNG PLUMBING

1128 Millstone

F.F.=809.50 GAR 807.50 BASEMENT 800.83 HUNG PLUMBING

1125 Millstone

F.F.=809.50 GAR 808.17 BASEMENT 800.83

1124 Millstone

F.F.=810.17 GAR 808.84 BASEMENT 802.50

1115 Millstone

F.F.=812.67 GAR 811.33 BASEMENT 804.00

CONTRACTOR TO ADJUST HYDRANT TO GRADE (24"-26" ABOVE FINAL GRADE)

CONTRACTOR TO VERIFY OPERABILITY OF G.V. (TYPICAL)

EXISTING 4 PLEX SERVICE CONNECTION TO BE RE-TAPPED & RECONNECTED ON NEW W.M. CONN # 529414

EXISTING SERVICE CONNECTION TO BE RE-TAPPED & RECONNECTED ON NEW W.M. CONN # 529420

EXISTING SERVICE CONNECTION TO BE RE-TAPPED & RECONNECTED ON NEW W.M. CONN # 529421

EXISTING 4 PLEX SERVICE CONNECTION TO BE RE-TAPPED & RECONNECTED ON NEW W.M. CONN # 529413

REMOVE & RE-TAP PERMIT #529420, #529421

REMOVE & RE-TAP PERMIT #529413-A, #529413-B, #529413-C, #529413-D

REMOVE & RE-TAP PERMIT #529414-A, #529414-B, #529414-C, #529414-D

REMOVE ALL GATE VALVE BOXES & WATER SERVICE BOXES IN THIS AREA

REMOVE F. HYDRANT FOR REUSE AND REMOVE ALL GATE VALVE BOXES & WATER SERVICE BOXES IN THIS AREA

ABANDON EXIST. 8" WATERLINE

PROP. 8" WATERLINE

PROP. 76.00 LF. 12" PVC (O.D.O.T. 707.46) @ 0.88%

PROP. 132.46 LF. 12" PVC (O.D.O.T. 707.46) @ 0.88%

PROP. 78.00 LF. 12" PVC (O.D.O.T. 707.46) @ 2.46%

PROP. 459.89 L.F. 12" PVC @ 0.88%

EX. 163.71 L.F. 12" PVC STM. @ 0.88%

EX. 181.72 L.F. 12" PVC STM. @ 2.51%

PROP. C.B. 1 STA. 10+86.17, 103.54' LT. INV. 807.25

PROP. C.B. 2 STA. 11+86.04, 72.74' LT. INV. 804.59

PROP. C.B. 3 TOP 808.76 INV. 800.48

PROP. C.B. 4 STA. 11+26.74, TOP 810.25 INV. 807.25

EX. INLET STA. 10+86.83, 38.71' LT. TOP 806.55 INV. 805.35 BASE TOP TO BTM=0.80'

EX. INLET STA. 11+07.13, 37.74' LT. TOP 807.65 INV. 804.59

PROP. DOWNHOUSE

PC Sta = 11+16.8002

PT Sta = 10+74.3889

PT Sta = 7+18.9639

PC Sta = 7+18.9639

STA. 7+50.88, 0.39' LT.

10-23-03

STOP 10+69

START

8" 45° Bend @ 10+55

8" 45° Bend 10+16

Hyd TEE @ 9+03

8"x6" TEE @ 9+03

GLENGARY DRIVE

S.D.D. EASEMENT

7298 Glengary

F.F.=809.00 GAR 807.67

F.F.=810.33 GAR 809.00

7333 Glengary

7337 Glengary

7341 Glengary

7345 Glengary

7349 Glengary

7353 Glengary

7357 Glengary

7338 Glengary

7342 Glengary

7346 Glengary

7350 Glengary

7354 Glengary

UNIT 33

UNIT 32

UNIT 31

UNIT 30

UNIT 29

UNIT 28

UNIT 27

UNIT 22

UNIT 23

UNIT 24

UNIT 25

UNIT 26

F.F.=816.00 GAR 815.33 BASEMENT 807.33 HUNG PLUMBING

F.F.=815.33 GAR 814.00 BASEMENT 806.67 HUNG PLUMBING

F.F.=816.68 GAR 815.35

F.F.=816.00 GAR 814.67 BASEMENT 807.33 HUNG PLUMBING

F.F.=815.33 GAR 814.00 BASEMENT 806.67 HUNG PLUMBING

F.F.=816.68 GAR 815.35 BASEMENT 808.01 HUNG PLUMBING

F.F.=816.00 GAR 814.67 BASEMENT 807.33 HUNG PLUMBING

F.F.=815.33 GAR 814.00 BASEMENT 806.67 HUNG PLUMBING

F.F.=816.68 GAR 815.35

F.F.=816.00 GAR 814.67 BASEMENT 807.33 HUNG PLUMBING

F.F.=815.33 GAR 814.00 BASEMENT 806.67 HUNG PLUMBING

F.F.=816.68 GAR 815.35

F.F.=816.00 GAR 814.67 BASEMENT 807.33 HUNG PLUMBING

F.F.=815.33 GAR 814.00 BASEMENT 806.67 HUNG PLUMBING

IR 17 8'-5" of MH MBNJ 40' - 6"

IR 17 10'-5" of MH MBNJ 24' - 6"

IR 17 7'2"-5" of MH MBNJ 24' - 6"

IR 16 11'5" of MH MBNJ 24' - 6"

IR 16 10'1"-5" of MH MBNJ 24' - 6"

IR 16 8'-5" of MH MBNJ 24' - 6"

3+40 IR 10 42' NW of MH MESV 10' - 6"

3+71 IR 10 5' NW of MH MBNJ 10' - 6"

3+06 IR 2.5 1.25' W of MH MBNJ 27' - 6"

3+11 IR 2.18 1.20' W of MH MBNJ 10' - 6"

3+60 IR 2.18 71' W of MH MBNJ 10' - 6"

4+02 IR 2.18 29' W of MH MBNJ 10' - 6"

4+59 IR 14 22' E of MH MBNJ 12' - 6" DIP

4+78 IR 14 41' E of MH MBNJ 12' - 6" DIP

EX. SAN. MBNJ STA. 7+28.05 699.45 FT. TOP 814.80 INV. 806.96

EX. SAN. MBNJ STA. 7+28.05 699.45 FT. TOP 814.80 INV. 806.96

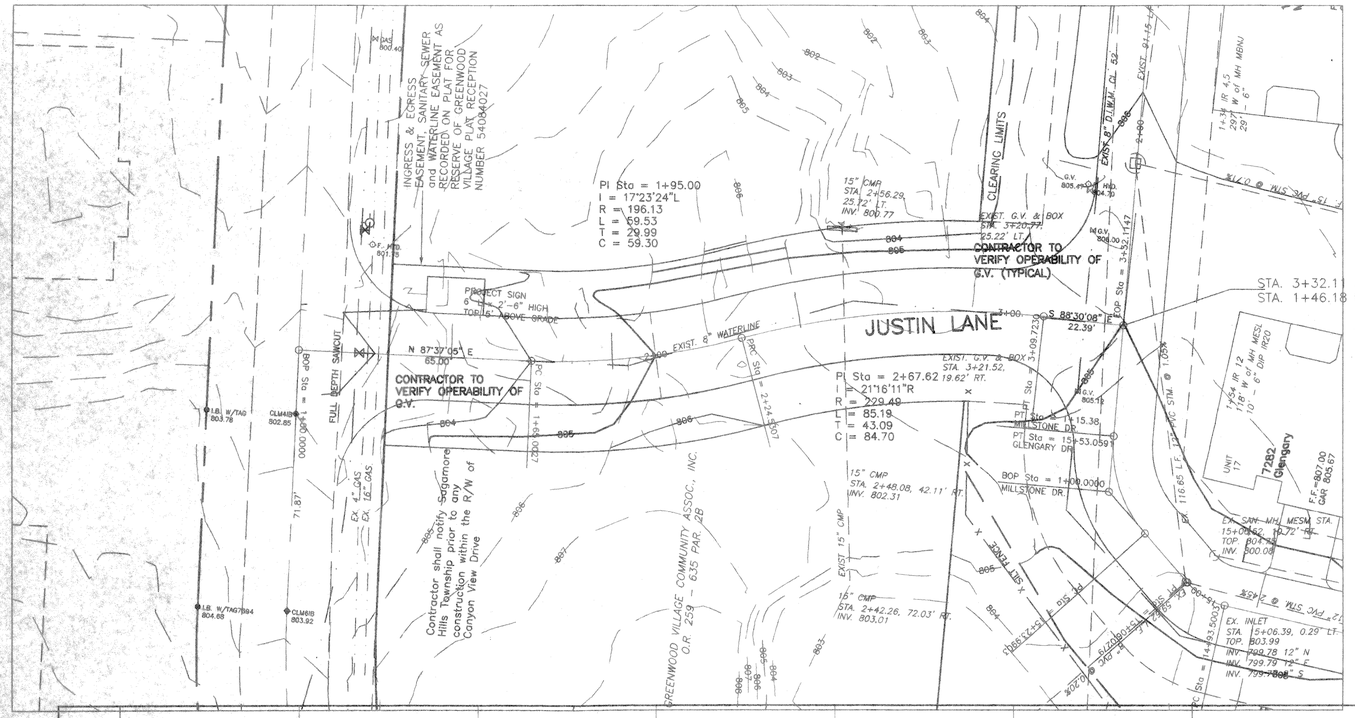
EX. SAN. MBNJ TOP 814.80 INV. 806.96

EX. SAN. MBNJ TOP 814.72 INV. 806.63 SW

EX. SAN. MBNJ TOP 814.72 INV. 806.63 NW

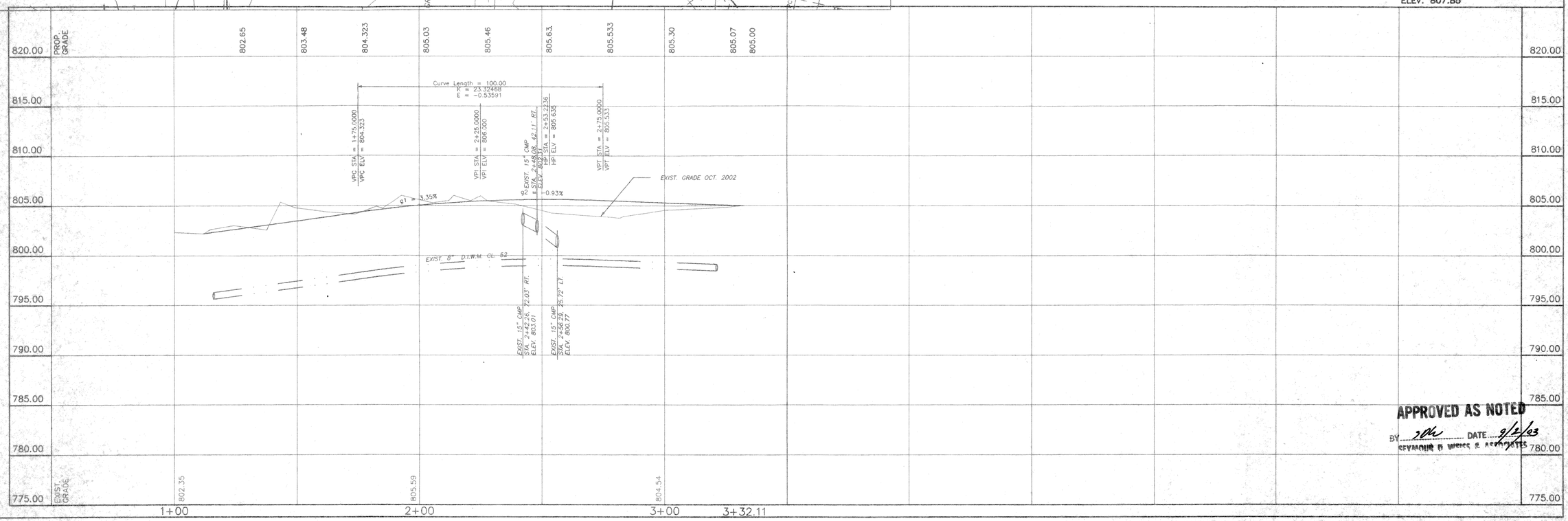
EX. SAN. MBNJ TOP 814.72 INV. 806.63 NE

EX. SAN. MBNJ TOP 814.72 INV. 806.63 SE



SCALES:
1" = 20' HOR
1" = 5' VER

BENCH MARK
RIM OF SAN. M.H. MBNE
ELEV. 807.85



APPROVED AS NOTED
BY ____ DATE 9/2/03
KEVANCIR & WEEKS & ASSOCIATES

Revised on 08/06/03 COSE comments
Revised on 07/24/03 NHWD comments
Revised on 06/12/03 COSE comments
Plotted on 05/12/03 at 09:18:44.
2363 Mike Orley\grading 101502\RCp01001.dwg

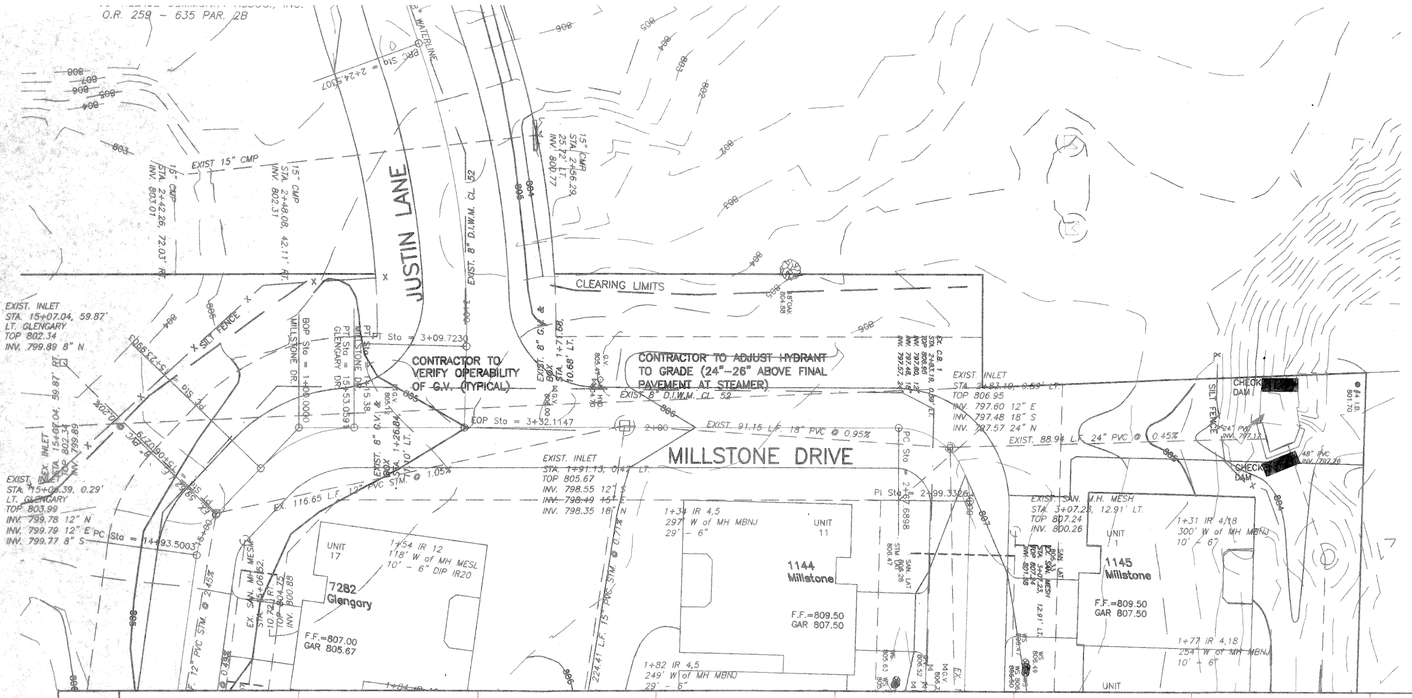
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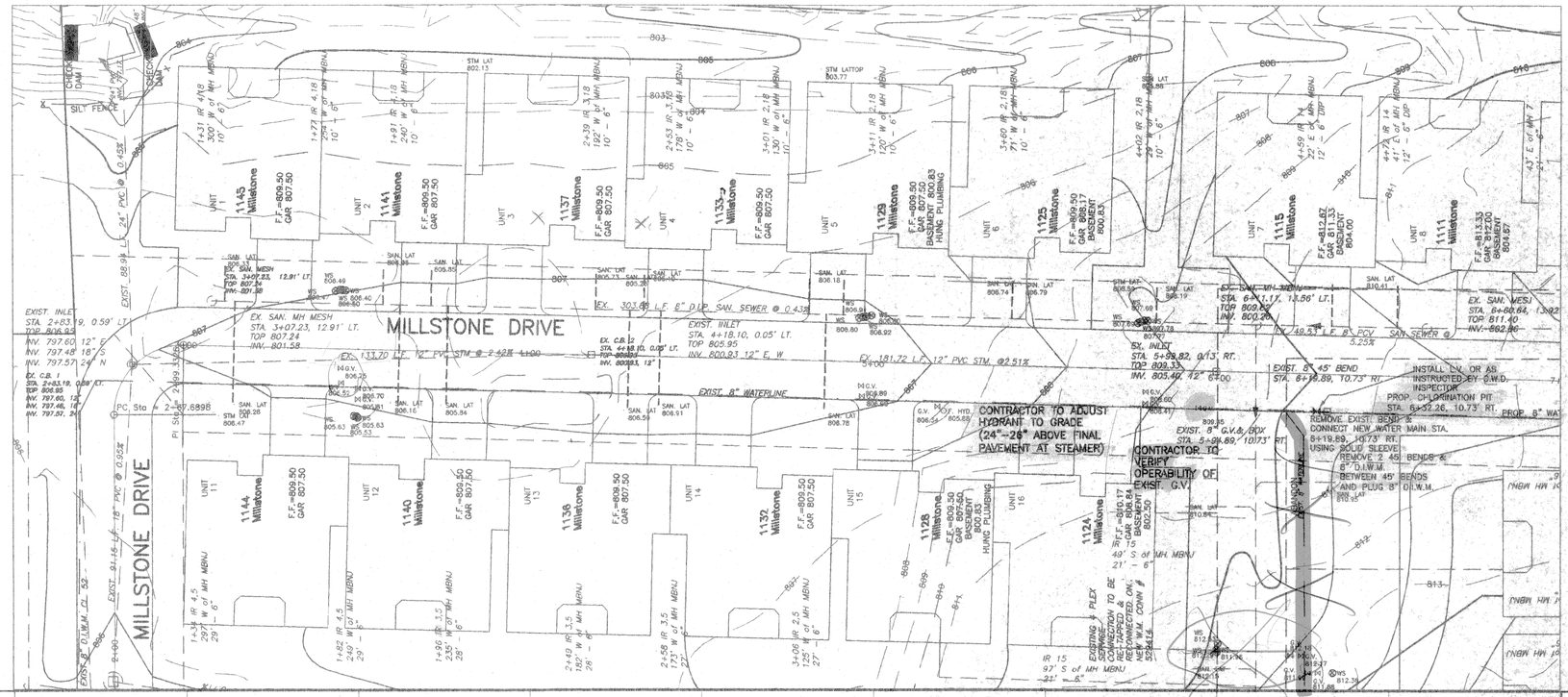
CANYON ESTATES CONDOMINIUMS
CANYON VIEW DRIVE, SAGAMORE HILLS, SUMMIT COUNTY, OHIO
Sta. 1+00 to 3+32.11 Justin Lane

STATE OF OHIO KENNETH W. JENSEN 24557 REGISTERED PROFESSIONAL ENGINEER

KENNETH JENSEN & ASSOCIATES
ENGINEERS & SURVEYORS
3543 DARROW RD. STOW, OHIO 44224
(330) 688-6049

DRWN. BY	DATE	JOB No.	DWG. No.
DLJ	5-5-03	2636	6


O.R. 259 - 635 PAR. 2B
JUSTIN LANE
EXIST. 15" CMP
EXIST. 8" D.I.W.M. CL 52
CLEARING LIMITS
SILT FENCE
EXIST. INLET
STA. 15+07.04, 59.87' LT.
GLENGARY
TOP 802.34
INV. 799.89 8" N
PI Sta = 3+09.7230
CONTRACTOR TO VERIFY OPERABILITY OF G.V. (TYPICAL)
CONTRACTOR TO ADJUST HYDRANT TO GRADE (24"-26" ABOVE FINAL PAVEMENT AT STEAMER)
EOP Sta = 3+32.1147
EXIST. 91.15 L.F. 18" PVC @ 0.95%
MILLSTONE DRIVE
EXIST. INLET
STA. 1+91.13, 0.47' LT.
TOP 805.67
INV. 798.55 12" S
INV. 798.49 15" E
INV. 798.35 18" N
EX. 116.65 L.F. 12" PVC @ 1.05%
PI Sta = 2+99.3306
EXIST. SAN. M.H. MESH
STA. 3+07.23, 12.91' LT.
TOP 807.24
INV. 800.26
1+34 IR 4,5
297' W of MH MBNJ
29' - 6"
1+31 IR 4/18
300' W of MH MBNJ
10' - 6"
1+54 IR 12
118' W of MH MESL
10' - 6" DIP IR20
1+77 IR 4,18
254' W of MH MBNJ
10' - 6"
1+82 IR 4,5
249' W of MH MBNJ
29' - 6"
UNIT 17
UNIT 11
UNIT 1
7282 Glengary
F.F.=807.00
GAR 805.67
1144 Millstone
F.F.=809.50
GAR 807.50
1145 Millstone
F.F.=809.50
GAR 807.50
EXIST. INLET
STA. 1+91.13, 0.47' LT.
TOP 806.95
INV. 797.60 12" E
INV. 797.48 18" S
INV. 797.57 24" N
EXIST. 88.94 L.F. 24" PVC @ 0.45%
CHECK DAM
24" PVC
INV. 797.11
48" PVC
INV. 797.18
EX. 24" PVC
INV. 800.70
EX. 12" PVC @ 1.05%
EX. 15" PVC @ 2.43%
EX. SAN. M.H. MESH
TOP 804.27
INV. 800.88
EXIST. INLET
STA. 15+08.39, 0.29' LT.
GLENGARY
TOP 803.99
INV. 799.78 12" E
INV. 799.79 12" E
INV. 799.77 9" S
PC Sta = 1+93.5003
EXIST. 12" PVC STM @ 2.43%
EXIST. 8" D.I.W.M. CL 52
EXIST. 6" D.I.W.M.
EXIST. 15" CMP
STA. 2+24.56
INV. 801.77
23.2' LT.
EXIST. 15" CMP
STA. 2+48.08, 42.11' RT.
INV. 802.17
EXIST. 15" CMP
INV. 804.22
10.72' LT.
INV. 800.88
EXIST. 8" D.I.W.M.
STA. 1+71.86
10.68' LT.
EXIST. 6" D.I.W.M.
STA. 1+26.84
10' LT.
EXIST. 8" D.I.W.M.
STA. 1+00.0000
INV. 799.89



BENCH MARK
RIM OF SAN. MANHOLE MBNE
ELEV. 807.85

SCALES:
1" = 20' HOR
1" = 5' VER

APPROVED AS NOTED
BY SDW DATE 5-29-03
SEYMOUR D. WEISS & ASSOCIATES

Revised on 09/13/03 CLEV, NHWD comments
Revised on 09/08/03 NHWD comments
Revised on 07/24/03 NHWD comments
Revised on 05/12/03 COSE, DOES, CLEV comments
Plotted on 05/12/03 at 09:45:15.
2363 Mikke Oriey\grading 101502\RCp01002.dwg

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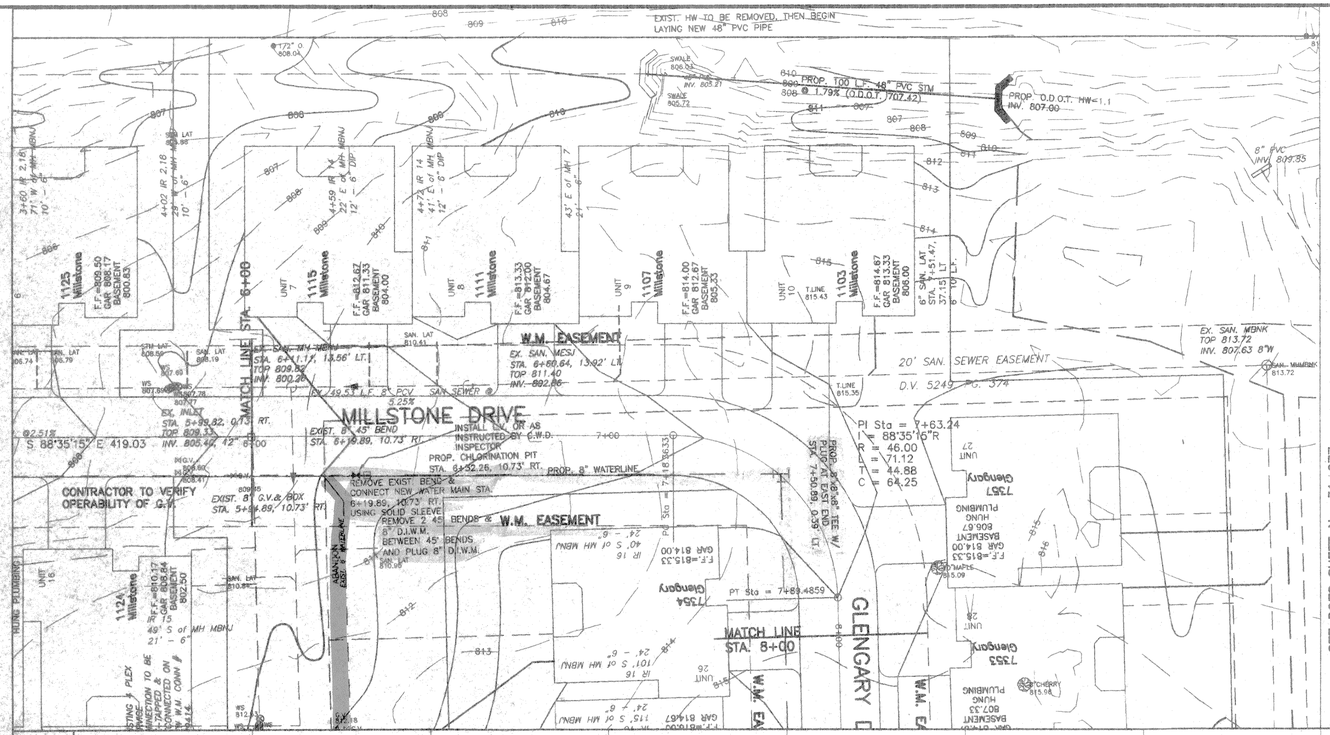
CANYON ESTATES CONDOMINIUM
CANYON VIEW DRIVE, SAGAMORE HILLS, SUMMIT CO., OHIO

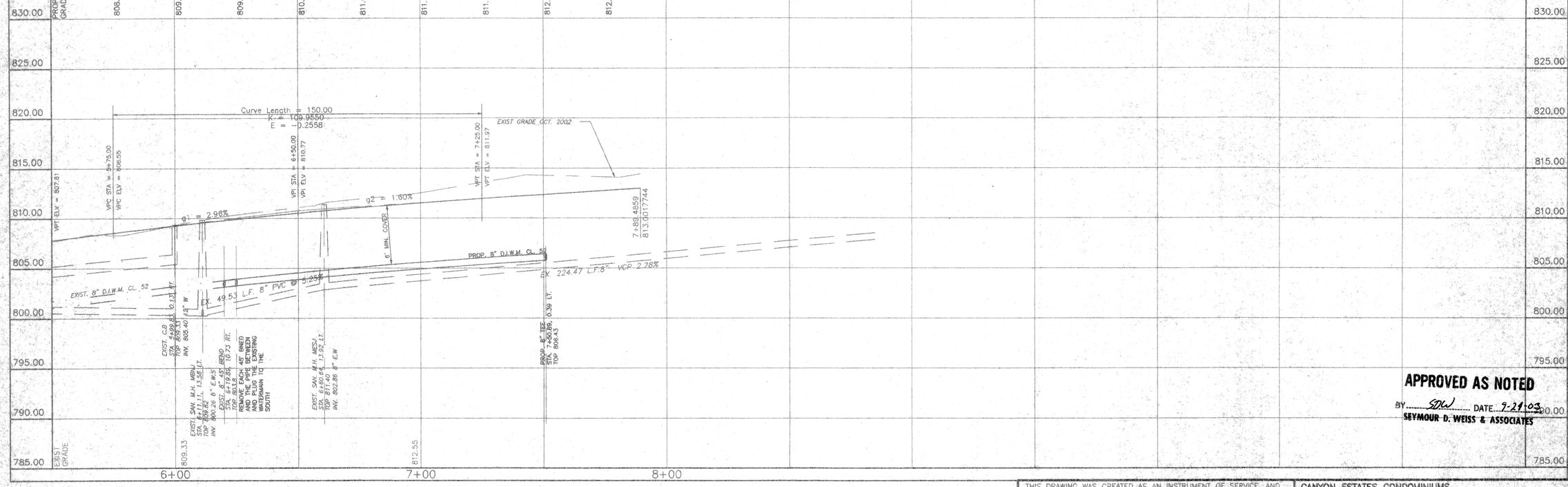
Sta. 3+00 to 6+50 MILLSTONE DRIVE

STATE OF OHIO · KENNETH W. JENSEN · 2455 · REGISTERED PROFESSIONAL ENGINEER

KENNETH JENSEN & ASSOCIATES
ENGINEERS & SURVEYORS
3543 DARROW RD. STOW, OHIO 44224
(330) 688-6049

DRWN. BY	DATE	JOB No.	DWG. No.
DLW	5-5-03	2636	8





APPROVED AS NOTED
BY SDW DATE 9-21-03
SEYMOUR D. WEISS & ASSOCIATES

Revised on 09/13/03 NHWD comments
Revised on 09/08/03 NHWD comments
Revised on 08/06/03 C.W.D. COSE comments
Revised on 07/24/03 NHWD comments
Revised on 06/12/03 COSE, DOES, CLEV comments
Plotted on 05/12/03 at 10:00:43.
2636 Mike Orley\grading 101502\RCp02002.dwg

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CANYON ESTATES CONDOMINIUMS
CANYON VIEW DRIVE, SAGAMORE HILLS, SUMMIT COUNTY, OHIO
Sta. 6+00 to 7+89.49 MILLSTONE DRIVE

STATE OF OHIO · KENNETH W. JENSEN 24557 REGISTERED PROFESSIONAL ENGINEER

KENNETH JENSEN & ASSOCIATES
ENGINEERS & SURVEYORS
3543 DARROW RD. STOW, OHIO 44224
(330) 688-6049

DRWN. BY	DATE	JOB No.	DWG. No.
DLJ	5-5-03	2636	9

SEE D.O.E.S. SHT. No. 31-077

GLENGARY DRIVE

20' SAN. SEWER EASEMENT D.V. 5249, P. 574

W.M. EASEMENT

MATCH LINE STA. 8+00

MATCH LINE STA. 11+00

I = 88°35'15"R
R = 46.00
L = 71.12
T = 44.88
C = 64.25

PROP. 8"x8"x8" TEE W/ PLUG AT EAST END STA. 7+50.89, 0.59' LT.

PROP. 8x6 TEE FOR HYDRANT STA. 9+04.85, 15.00' RT. REUSE F.H. HYDRANT FROM FORMER LOCATION

PROP. 8" WATERLINE

50.00' W.M. EASEMENT

P.I. STA. = 10+45.85
I = 90°00'00"R
R = 50.00
T = 50.00
L = 78.54
C = 70.71

PROP. 8" 45° BEND STA. 10+16.49, 12.12' RT.

PROP. 8" 45° BEND STA. 10+84.75, 12.12' RT.

PROP. 78.00 L.F. 12" PVC (0.01" /LF) @ 2.46%

EXIST. INLET STA. 10+88.83, 38.77' LT. TOP 809.12 INV. 805.33 RAISE TOP TO 811.50

PROP. C.B. 1 STA. 10+88.83, 103.54' LT. TOP 810.25 INV. 807.25

POOL

OWNERS: OAK KNOLLS CONDOMINIUMS UNIT 1 D.V. 5867, P. 579

7357 Glengary UNIT 27 — F.F.=815.33, GAR 815.33, BASEMENT 806.67, PLUMBING
7353 Glengary UNIT 28 — F.F.=816.00, GAR 814.67, BASEMENT 807.33, HUNG PLUMBING
7349 Glengary UNIT 29 — F.F.=816.68, GAR 815.35, BASEMENT 808.01, HUNG PLUMBING
7345 Glengary UNIT 30 — F.F.=816.68, GAR 815.35, BASEMENT 808.01, HUNG PLUMBING
7341 Glengary UNIT 31 — F.F.=816.68, GAR 815.35, BASEMENT 808.01, HUNG PLUMBING
7337 Glengary UNIT 32 — F.F.=816.00, GAR 814.67, BASEMENT 807.33, HUNG PLUMBING
7333 Glengary UNIT 33 — F.F.=815.33, GAR 814.00, BASEMENT 806.67, HUNG PLUMBING

REMOVE & RE-TAP PERMIT #529414-A, #529414-B, #529414-C, #529414-D

7335A Glengary UNIT 26 — F.F.=815.33, GAR 814.00, IR 15 40' S. of MH NEW 24" - 6"
7350 Glengary UNIT 25 — F.F.=816.00, GAR 814.67, IR 16 115' S. of MH NEW 24" - 6"
7346 Glengary UNIT 24 — F.F.=816.68, GAR 815.35, IR 17 101' S. of MH NEW 24" - 6"
7342 Glengary UNIT 23 — F.F.=816.68, GAR 815.35, IR 17 135' S. of MH NEW 24" - 6"
7338 Glengary UNIT 22 — F.F.=816.68, GAR 815.35, IR 17 40' S. of MH NEW 24" - 6"

REMOVE & RE-TAP PERMIT #529413-A, #529413-C, #529413-D, #529420, #529421

PROP. 8" WATERLINE

SCALES:
1" = 20' HOR
1" = 5' VERT

PROP. GRADE	811.54, 812.37, 813.17, 813.57, 813.97, 814.30, 814.50, 814.56, 814.48, 814.27, 813.93, 813.52, 813.10, 812.68, 812.23
EXIST. GRADE	814.83, 817.70, 818.63, 808.65

VPC STA = 8+50.00, VPC ELV = 813.97
EXIST. GRADE OCT. 2002
VPI STA = 9+25.0000, VPI ELV = 815.17
Curve Length = 150.00, K = 46.0829, E = -0.6103
VPT STA = 10+00.00, VPT ELV = 813.93
VPC STA = 10+50.0000, VPC ELV = 813.10
g1 = 1.50%
g2 = -1.66%
g1 = -1.66%
6.00' MIN COVER
6.00' MIN COVER
HP STA = 9+23.7327, HP ELV = 814.56
PROP. 8" D.I.W.M. CL 52

EXIST. INLET STA. 10+88.83, 38.77' LT. TOP 809.12 INV. 805.33 RAISE TOP TO 811.50

830.00 / 825.00 / 820.00 / 815.00 / 810.00 / 805.00 / 800.00 / 795.00 / 790.00 / 785.00

7+00 8+00 9+00 10+00 11+00

APPROVED AS NOTED
BY SDW DATE 9-24-03
SEYMOUR D. WEISS & ASSOCIATES

Revised on 09/13/03 CLEV, NHWD comments
Revised on 09/08/03 NHWD comments
Revised on 07/24/03 NHWD comments
Revised on 06/12/03 COSE DOES CLEV comments
Plotted on 05/12/03 at 10:19:13.
2363 Mike Criley\grading\101502\RCp1003.dwg

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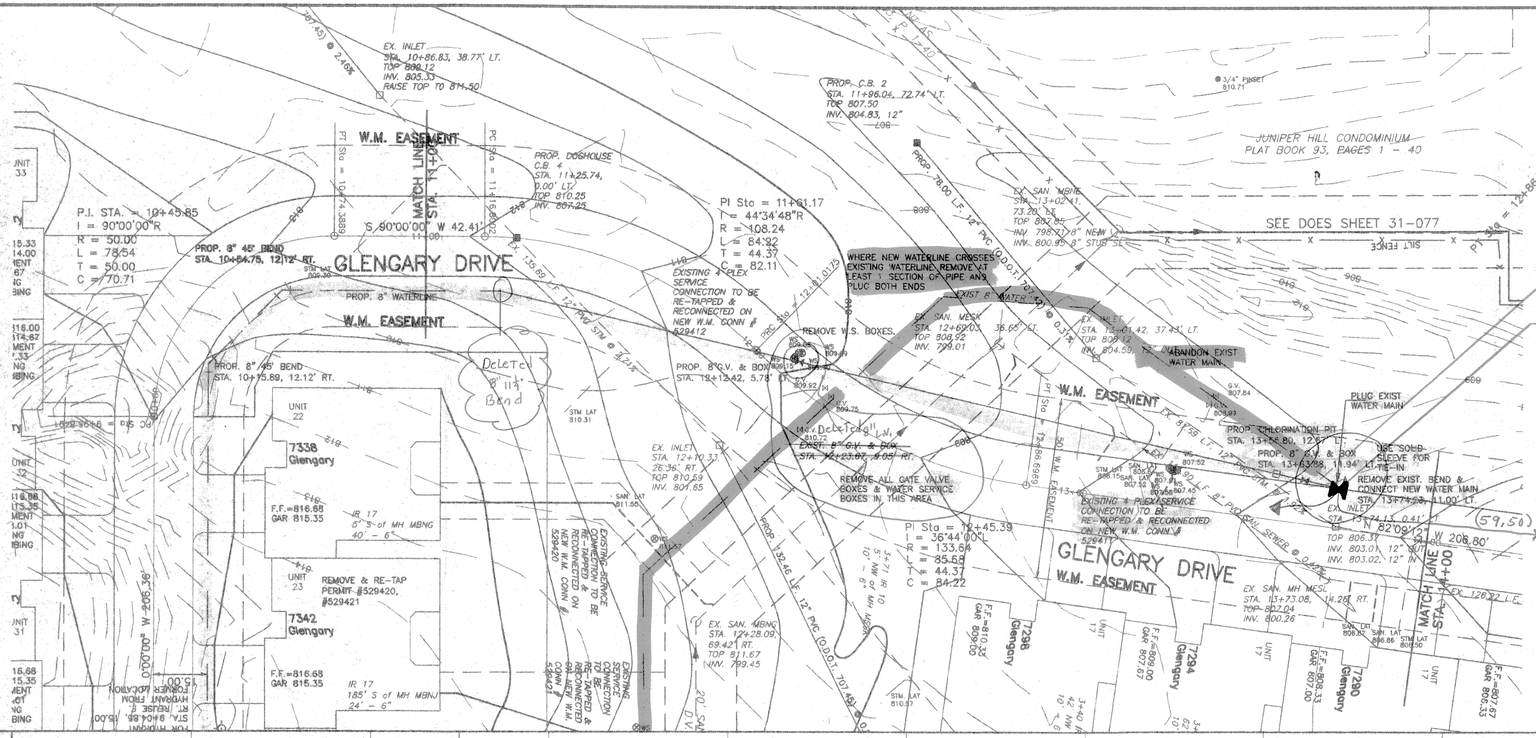
CANYON ESTATES CONDOMINIUMS
CANYON VIEW DRIVE, SAGAMORE HILLS, SUMMIT COUNTY, OHIO

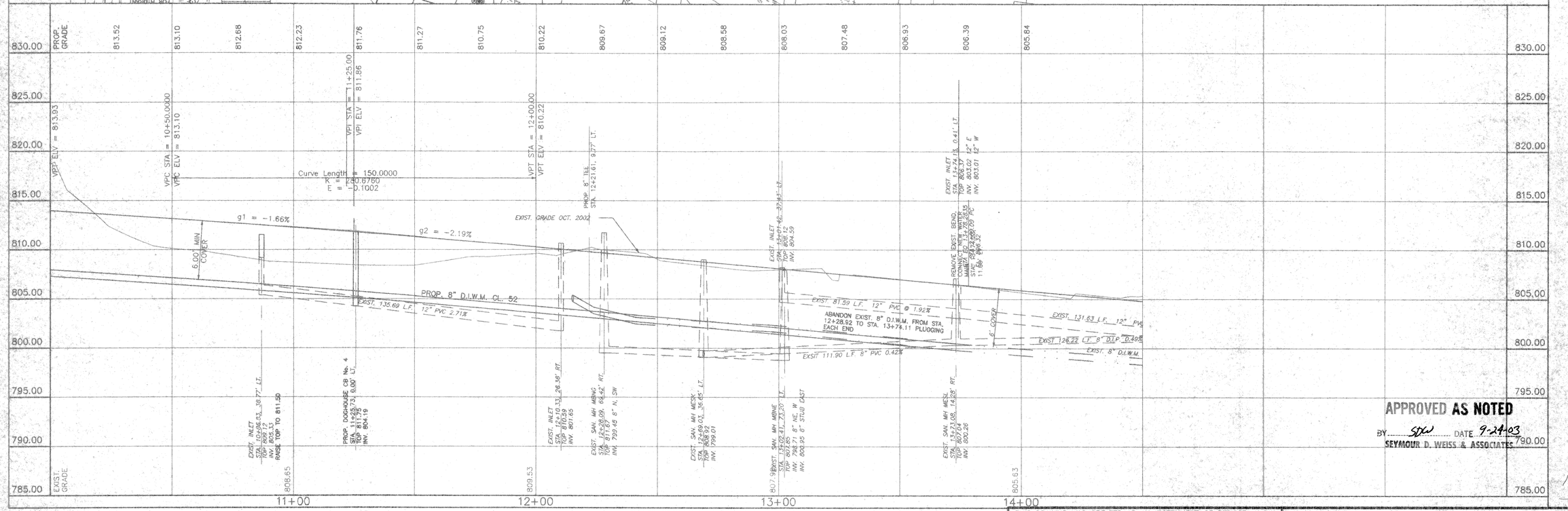
STA 7+89.49 TO 10+74.39 GLENGARY DRIVE

STATE OF OHIO — KENNETH W. JENSEN 2455 REGISTERED PROFESSIONAL ENGINEER

KENNETH JENSEN & ASSOCIATES
ENGINEERS & SURVEYORS
3543 DARROW RD. STOW, OHIO 44224
(330) 688-6049

DRWN. BY	DATE	JOB No.	DWG. No.
DLJ	5-5-03	2636	10





APPROVED AS NOTED
BY SDW DATE 9-24-03
SEYMOUR D. WEISS & ASSOCIATES

13 25
5 49
8 16

Revised on 09/13/03 CLEV, NHWD comments
Revised on 09/08/03 NHWD comments
Revised on 08/06/03 NHWD comments
Revised on 07/24/03 NHWD comments
Revised on 06/12/03 COSE, DOES, CLEV comments
Plotted on 05/12/03 at 10:34:24.
2363 Mike Orley\grading 101502\RCp1003a.dwg

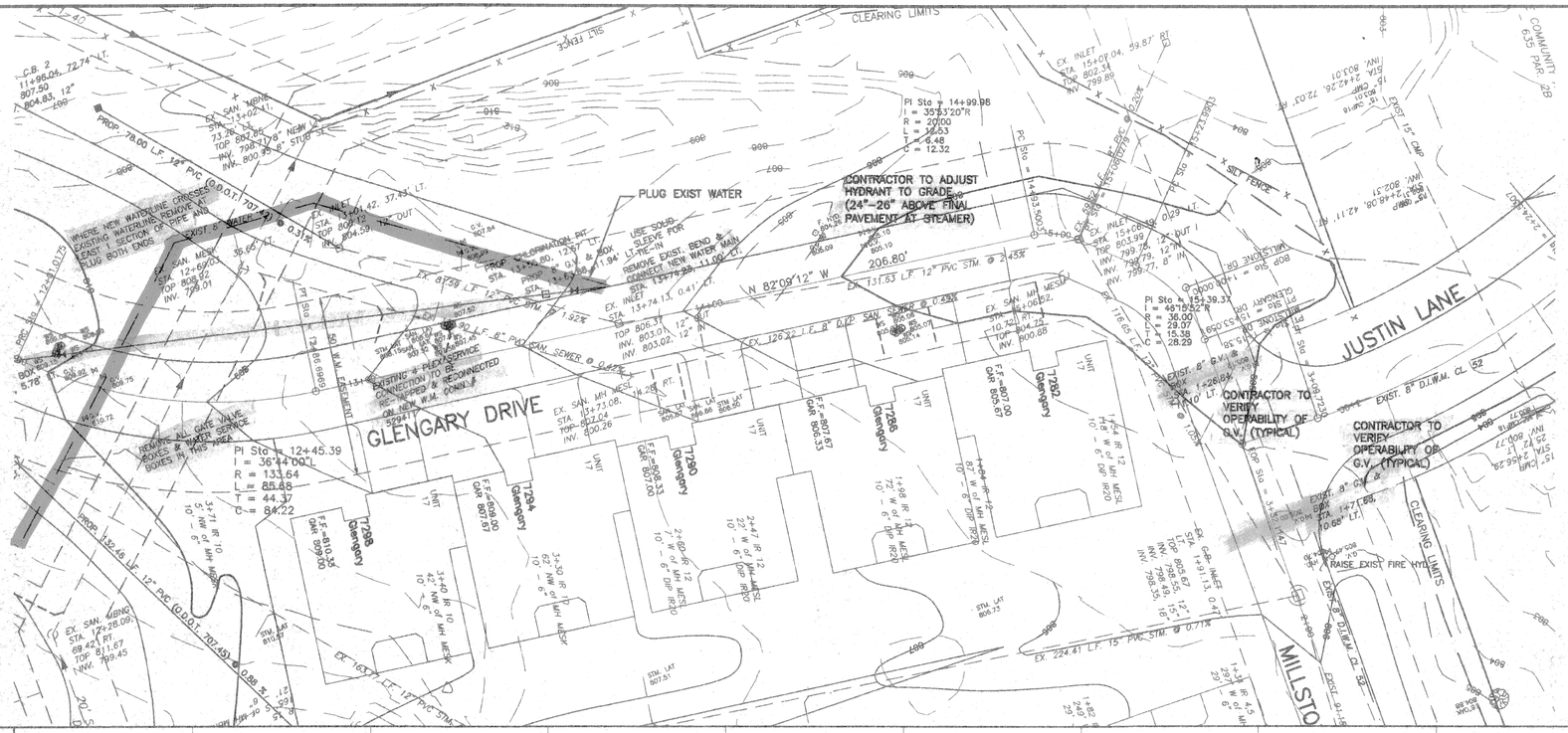
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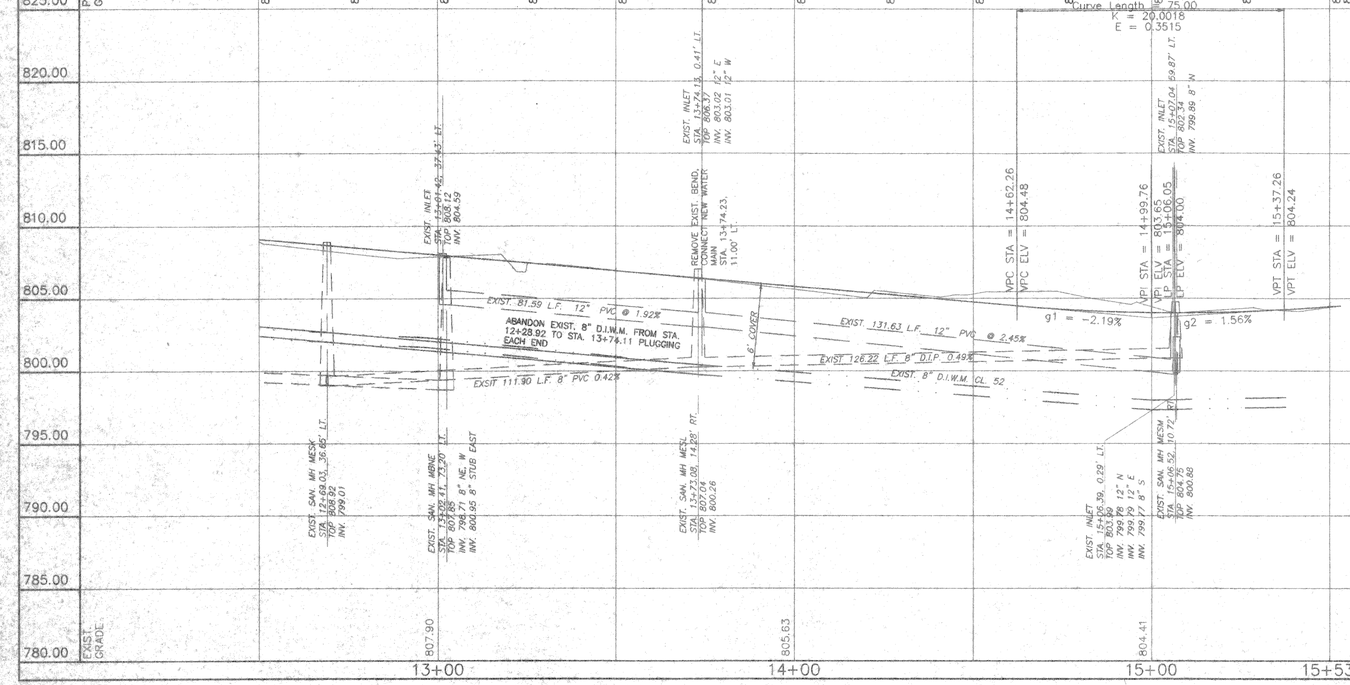
CANYON ESTATES CONDOMINIUMS
CANYON VIEW DRIVE, SAGAMORE HILLS, SUMMIT COUNTY, OHIO
STA 10+50 TO 14+00 GLENGARY DRIVE

STATE OF OHIO · KENNETH W. JENSEN · 24557 · REGISTERED · PROFESSIONAL ENGINEER

KENNETH JENSEN & ASSOCIATES
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DLJ	5-5-03	2636	11





APPROVED AS NOTED

BY SDW DATE 9-29-03

SEYMOUR D. WEISS & ASSOCIATES

Revised on 09/13/03 CLEV, NHWD comments
Revised on 09/08/03 NHWD comments
Revised on 08/06/03 NHWD comments
Revised on 07/24/03 NHWD comments
Revised on 06/11/03 OOSE comments
Plotted on 05/12/03 at 10:51:37.

2636 Mike Orley\grading 101502\RCp02003.dwg

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CANYON ESTATES CONDOMINIUMS
CANYON VIEW DRIVE, SAGAMORE HILLS, SUMMIT COUNTY, OHIO

STA. 13+00 TO 15+53.06 GLENGARY DRIVE

STATE OF OHIO — KENNETH W. JENSEN 24957 REGISTERED PROFESSIONAL ENGINEER

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DRWN. BY	DATE	JOB No.	DWG. No.
DLJ	5-5-03	2636	12