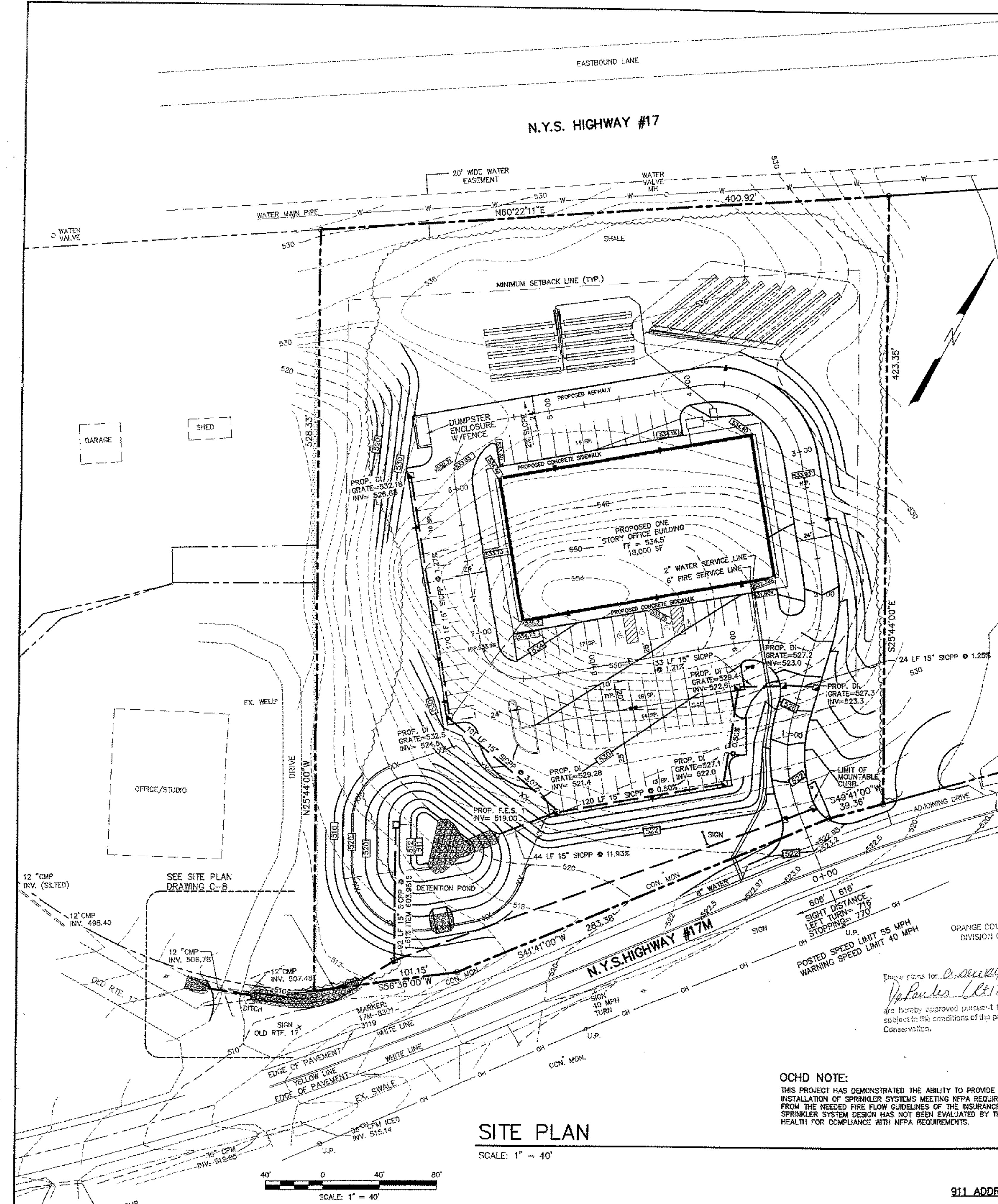
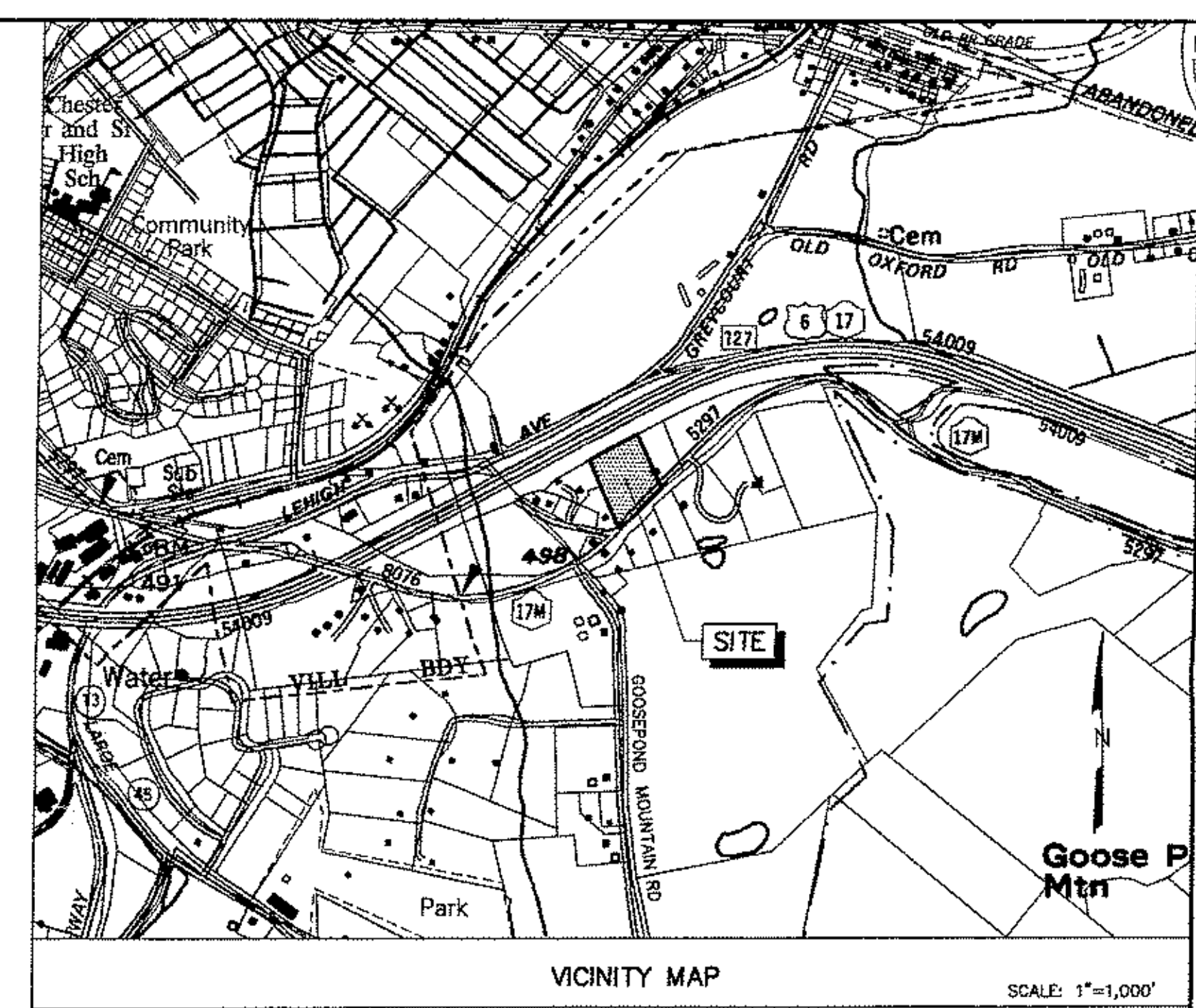




- ORANGE COUNTY DEPARTMENT OF HEALTH NOTES:**
1. THE DESIGN AND LOCATION OF SANITARY FACILITIES (WATER AND SEWER SYSTEMS) SHALL NOT BE CHANGED.
 2. ALL WELLS AND SEPTIC SYSTEMS WITHIN 200 FEET OF THIS PROJECT HAVE BEEN LOCATED AND ARE SHOWN ON THE PLANS.
 3. THERE SHALL BE NO RE-GRADING, EXCEPT AS SHOWN ON THE APPROVED PLANS, IN THE AREA OF THE ABSORPTION FIELDS.
 4. ELECTRICAL EQUIPMENT IN WET WELLS OR IN ENCLOSED SPACES WHERE EXPLOSIVE GASES MAY ACCUMULATE SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE FOR CLASS 1, DIVISION 1, GROUP C OR D LOCATIONS. THERE SHALL BE NO ELECTRICAL SPLICES, JUNCTION BOXES, OR CONNECTIONS OF ANY NEG RATING IN A SEWER WET WELL.
 5. HEAVY EQUIPMENT SHALL BE KEPT OFF THE AREA OF THE ABSORPTION FIELDS EXCEPT DURING THE ACTUAL CONSTRUCTION. THERE SHALL BE NO UNNECESSARY MOVEMENT OF CONSTRUCTION EQUIPMENT IN THE ABSORPTION FIELD AREA BEFORE, DURING, OR AFTER CONSTRUCTION. EXTREME CARE MUST BE TAKEN DURING THE ACTUAL CONSTRUCTION SO AS TO AVOID ANY UNDOE COMPACTION THAT COULD RESULT IN A CHANGE OF THE ABSORPTION CAPACITY OF THE SOIL ON WHICH THE DESIGN WAS BASED.
 6. NO SWIMMING POOLS, DRIVEWAYS, OR STRUCTURES THAT MAY COMPACT THE SOIL SHALL BE LOCATED OVER ANY PORTION OF THE ABSORPTION FIELD.
 7. THIS SYSTEM WAS NOT DESIGNED TO ACCOMMODATE GARBAGE GRINDERS, JACUZZI TYPE SPA TUBS OVER 100 GALLONS, OR WATER CONDITIONERS. AS SUCH, THESE ITEMS SHALL NOT BE INSTALLED UNLESS THE SYSTEM IS REDESIGNED TO ACCOUNT FOR THEM.
 8. THERE MUST BE AN UNINTERRUPTED POSITIVE SLOPE FROM THE SEPTIC TANK (OR ANY PUMPING OR DOSING CHAMBER) TO THE HOUSE, ALLOWING SEPTIC GASES TO DISCHARGE THROUGH THE STACK VENT.
 9. A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER SHALL INSPECT THE SANITARY FACILITIES (WATER SUPPLY, ANY WATER TREATMENT, AND SEWAGE DISPOSAL FACILITIES) AT THE TIME OF CONSTRUCTION. PRIOR TO OCCUPANCY OF THE STRUCTURE, THE ENGINEER SHALL CERTIFY TO THE ORANGE COUNTY DEPARTMENT OF HEALTH AND THE LOCAL CODE ENFORCEMENT OFFICER THAT THE FACILITIES HAVE BEEN INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND THAT ANY SEPTIC TANK JOINTS HAVE BEEN SEALED AND TESTED FOR WATER TIGHTNESS.
 10. ORANGE COUNTY DEPARTMENT OF HEALTH PLAN APPROVAL IS LIMITED TO 5 YEARS. TIME EXTENSIONS FOR PLAN APPROVAL MAY BE GRANTED BY THE ORANGE COUNTY DEPARTMENT OF HEALTH BASED UPON REGULATIONS IN EFFECT AT THAT TIME. A NEW PLAN SUBMISSION MAY BE REQUIRED TO OBTAIN A TIME EXTENSION.
 11. INDIVIDUAL SEWAGE DISPOSAL SYSTEMS SHALL NO LONGER BE CONSTRUCTED OR USED WHEN PUBLIC FACILITIES BECOME AVAILABLE. CONNECTION TO PUBLIC SEWER SYSTEM IS REQUIRED WITHIN 1 YEAR OF AVAILABILITY.



ABBREVIATIONS

- AC. ACRE
- BF. BASEMENT FLOOR
- BR. BEDROOM
- BLK. BLOCK
- CB. CATCH BASIN
- CK. CHECK
- DEPT. DEPARTMENT
- DET. DETAIL
- DWG. DRAWING
- EX. EXISTING
- FF. FINISHED FLOOR ELEVATION
- FM. FILED MAP
- FT. FEET
- GAL. GALLON
- GF. GARAGE FLOOR
- GP. GALLONS PER DAY
- GRM. GALLONS PER MINUTE
- H.P. HIGH POINT
- H.R. HOUR
- INV. INVERT ELEVATION
- IP. IRON PIPE
- LIB. LIBER
- LIC. LICENSE
- LF. LINEAR FEET
- LSE. LOWEST SEWERABLE ELEVATION
- MAX. MAXIMUM
- MH. MANHOLE
- MIN. MINIMUM OR MINUTE
- N/Y. NOW OR FORMERLY
- NTS. NOT TO SCALE
- PG. PAGE
- PROP. PROPOSED
- PVC. POLYVINYL CHLORIDE
- REF. REFERENCE
- REV. REVISION
- SF. SQUARE FOOT
- SD. SQUARE
- SAN. SANITARY SEWER
- SICPP. SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE
- STM. STORM SEWER
- STD. STANDARD
- TYP. TYPICAL
- UP. UTILITY POLE
- V. VALVE
- W. WATER
- W/O. WITHOUT

GENERAL NOTES:

1. RECORD OWNER AND APPLICANT: JOSEPH DEPAULIS, P.O. BOX 527, NEW HAMPTON, NY 10958
2. TAX MAP NUMBER: SECTION 3, BLOCK 1, LOT 22.1
3. AREA: 4.4417 ACRES
4. ZONING DISTRICT: GC. PROPOSED USE OFFICE. REQUIRED ACTUAL LOT AREA: 1 ACRE 4.4417 ACS. LOT WIDTH: 200' MIN. 415'. FRONT YARD: 75' MIN. 172'. SIDE YARD: 20' MIN. 78'. BOTH SIDE YARDS: 40' MIN. 205'. REAR YARD: 50' MIN. 180'. BUILDING HEIGHT: 40' MAX. 20'. BUILDING COVERAGE: 30% 10%.
5. BASE MAP INFORMATION TAKEN FROM THE FOLLOWING SOURCE: "SITE PLAN FOR HENRY R. GALLERY" DATED SEPTEMBER 15, 1988 AND APPROVED BY THE TOWN OF CHESTER ON DECEMBER 27, 1989.
6. CONTRACTOR/OWNER SHALL VERIFY ALL DIMENSIONS AND CONDITIONS OF EXISTING CONSTRUCTION BEFORE PROCEEDING WITH HIS WORK.
7. REQUIRED OFFICE PARKING: 1 SPACE PER 200 SQ.FT. OFFICE. TOTAL OFFICE SPACE = 18000 SQ.FT. TOTAL PARKING REQUIRED = 90 SPACES. TOTAL SPACES SUPPLIED = 92 SPACES (4 HANDICAPPED INCLUDED).
8. N/Y ATTARDO, SECTION 3- BLOCK 1- LOT 22.2 CONNECTED TO MUNICIPAL WATER SYSTEM WITH INDIVIDUAL SEPTIC SYSTEM.
9. APPLICANT SHALL OBTAIN ALL LOCAL AND STATE PERMITS REQUIRED FOR BLASTING.

REQUIRED SEPARATION DISTANCES FROM WASTEWATER SYSTEM COMPONENTS:

SYSTEM COMPONENTS	WELL (1) OR SEPTIC LINE (2) WITH 10" RING JOINTS, 50' OTHERWISE	TO STREAM, LAKE OR WATER COURSE (3)	TO WETLAND (4)	PROPERTY DRAINAGE DITCH (5), (6)
SEPTIC TANK	50'	50'	10'	10'
EFFLUENT LINE TO DISTRIBUTION BOX	50'	50'	10'	10'
DISTRIBUTION BOX	100'	100'	20'	20'
ABSORPTION FIELD	100' (a)	100'	20'	50'
SEEPAGE PIT	150' (a)	100'	20'	50'
DRY WELL (ROOF AND FOOTING)	50'	25'	20'	10'
RAISED OR MOUND SYSTEM (c)	100' (a)	100'	20'	50'
INTERMITTENT SAND FILTER (c)	100' (a)	100'	20'	50'
EVAPOTRANSPIRATION-ABSORPTION SYSTEM (c)	100' (a)	50'	20'	10'
COMPOSTER	50'	50'	20'	10'
SANITARY PRIVY PIT	100'	50'	20'	20'
PRIVY, WATER TIGHT VAULT	50'	50'	20'	10'

NOTES:

(a) WHEN SEWAGE TREATMENT SYSTEMS ARE LOCATED IN COARSE GRAVEL OR UPGRADE IN THE GENERAL PATH OF DRAINAGE TO A WELL, THE CLOSEST PART OF THE TREATMENT SYSTEM WILL BE AT LEAST 200 FEET AWAY FROM THE WELL.

(b) MEAN HIGH WATER MARK.

(c) FOR ALL SYSTEMS INVOLVING THE PLACEMENT OF FILL MATERIAL, SEPARATION DISTANCES ARE MEASURED FROM THE TOE OF SLOPE OF THE FILL.

(d) ANY WATER SERVICE LINE UNDER PRESSURE (I.E. PUBLIC WATER SUPPLY MAIN, HOUSEHOLD SERVICE LINE, WELL TO HOUSEHOLD SERVICE LINE) LOCATED WITHIN 10 FEET OF ANY ABSORPTION FIELD, SEEPAGE PIT OR SANITARY PRIVY SHALL BE INSTALLED INSIDE A LARGER DIAMETER WATER MAIN TO PROTECT THE POTABLE WATER SUPPLY.

(e) ANY WATER SERVICE LINE UNDER PRESSURE (I.E. PUBLIC WATER SUPPLY MAIN, HOUSEHOLD SERVICE LINE, WELL TO HOUSEHOLD SERVICE LINE) CROSSING A SEWER SHALL BE INSTALLED WITH ONE FULL LENGTH OF WATER MAIN CENTERED ABOVE THE SEWER SO BOTH WATER-CONNECTING JOINTS ARE AS FAR AS POSSIBLE FROM THE SEWER. SECTION 8.6 OF THE CURRENTLY RECOMMENDED STANDARDS FOR WATER WORKS SHALL BE FOLLOWED FOR SEPARATION OF WATER MAINS, SANITARY SEWERS AND STORM SEWERS. THE MINIMUM SEPARATION DISTANCE BETWEEN A SEPTIC TANK AND A COMMUNITY-TYPE PUBLIC WATER SUPPLY WELL SHOULD BE 100 FEET. DISTRIBUTION BOXES AND ABSORPTION FACILITIES (E.G. ABSORPTION TRENCHES/BEDS, SEEPAGE PITS, RAISED SYSTEMS, MOUND SYSTEMS, ETC.) SHOULD BE AT LEAST 200 FEET FROM COMMUNITY-TYPE PUBLIC WATER SUPPLY WELLS.

(g) RECOMMENDED SEPARATION DISTANCES.

SECTION 75.4 (A)-(S) ACCEPTED AS ORANGE COUNTY HEALTH DEPARTMENT POLICY AND STANDARD WITH THE FOLLOWING ADDITIONS:

1. SEPARATION WELL TO SWALE, STREAM, OR WATER COURSE - 25 FEET.
2. SEPARATION ABSORPTION FIELD TO OPEN DRAINAGE, CULVERT OR STORM SEWER (NON-GASKETED PIPE), OR CATCH BASIN - 50'
3. SEPARATION ABSORPTION FIELD TO CULVERT OR STORM SEWER (GASKETED, TIGHT PIPE) - 35'.
4. SEPARATION ABSORPTION FIELD TO CURTAIN DRAIN - 15'
5. SEPARATION ABSORPTION FIELD, PITS, EXPANSION AREA, TO TOP OF EMBANKMENT OR STEEP (1 ON 3) SLOPE - 25'.
6. DRAINAGE PIPES WITHIN 25' OF ANY WELL MUST BE WATER TIGHT.
7. SEPARATION WELL TO CEMETERY PROPERTY LINE - 100'.

THIS PLAN INCOMPLETE AND INVALID UNLESS ACCOMPANIED BY EACH OF THE 8 SHEETS

OCHD NOTE:

THIS PROJECT HAS DEMONSTRATED THE ABILITY TO PROVIDE ADEQUATE FIRE FLOW BY THE PROPOSED INSTALLATION OF SPRINKLER SYSTEMS MEETING NFPA REQUIREMENTS, AND IS, THEREFORE, EXEMPT FROM THE NEEDED FIRE FLOW GUIDELINES OF THE INSURANCE SERVICES OFFICE (ISO). THE PROPOSED SPRINKLER SYSTEM DESIGN HAS NOT BEEN EVALUATED BY THE ORANGE COUNTY DEPARTMENT OF HEALTH FOR COMPLIANCE WITH NFPA REQUIREMENTS.

ORANGE COUNTY DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH

There plans for change disposal system to new
DePaulis (R17M) T. Chester
are hereby approved pursuant to subject to the conditions of the permit.
Assistant Commissioner

911 ADDRESS:

PROPOSED ONE STORY OFFICE BLDG. 1455 ROUTE 17M

F	10/23/07	REVISED PER OCHD COMMENTS	PAH M.S.	H	3/6/08	REVISED PER NYSDOT COMMENTS	BGC M.S.	J	10/9/08	REVISED PER OCHD	PAH M.S.
E	7/24/07	REVISED PER NYSDOT COMMENTS	BJC M.S.	G	1/23/08	REVISED PER OCHD COMMENTS	PAH M.S.	I	9/5/08	REVISED PER OCHD	PAH M.S.
O	1/29/07	REVISED PER NYSDOT COMMENTS	BJC M.S.								
C	11/1/06	ADDED BLASTING NOTE	BGC M.S.								
B	4/19/06	SUBMITTED FOR PLANNING BOARD REVIEW	BJC M.S.								
A	2/2/06	SUBMITTED FOR PLANNING BOARD REVIEW	BJC M.S.								
NO.	DATE	REVISION	BY	CK.							

DRAWN BY: B. CHRISTIE
DEPT. CK. M. SANDOR
DEP. APPR.
COORD. CK.
P.M. APPR.
CLIENT APPR.

MJS ENGINEERING & LAND SURVEYING, PC
261 Greenwich Ave
Goshen, NY 10924
845-291-8650
Fax 845-291-8657

SHEET TITLE:

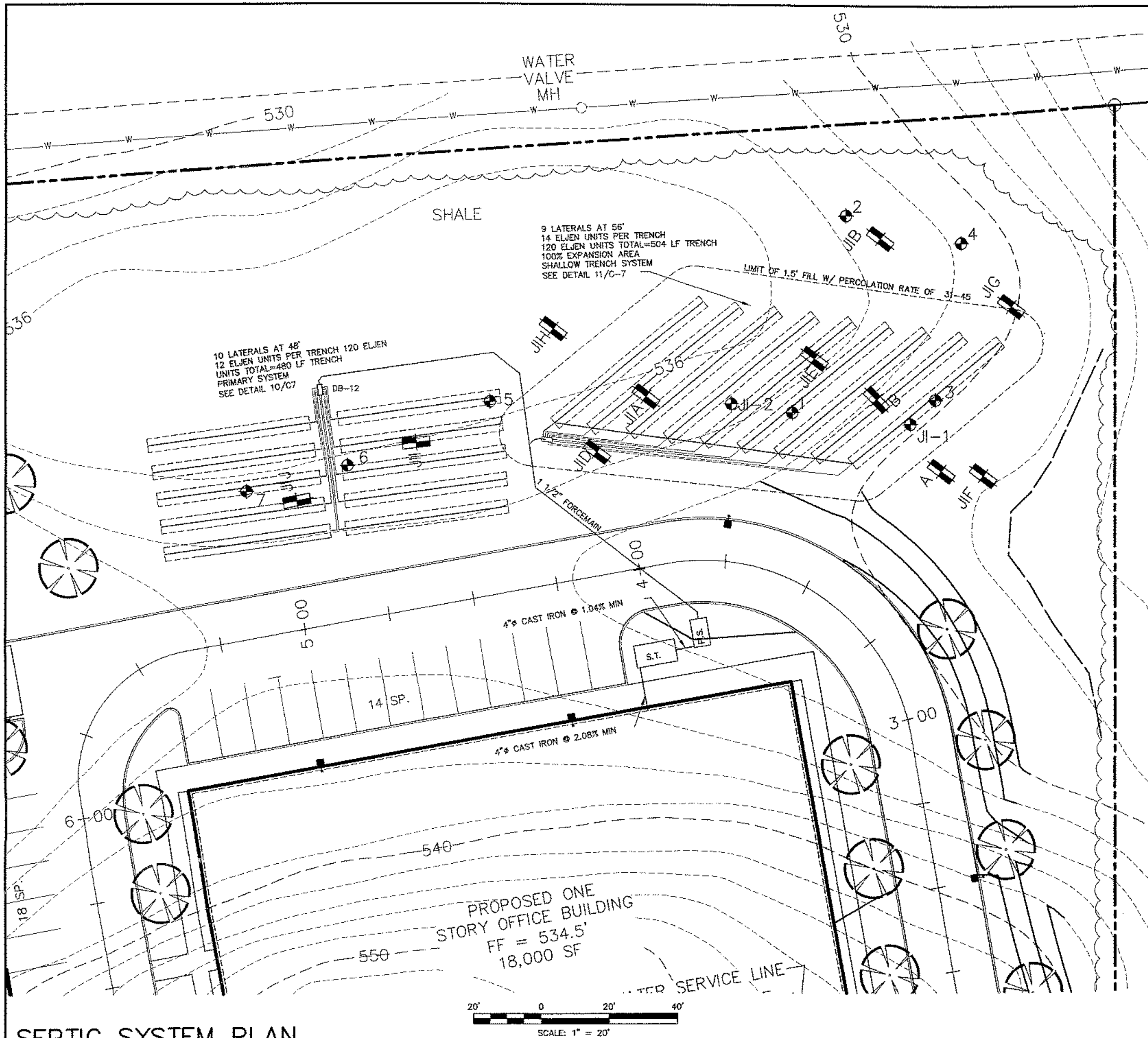
SITE PLAN & SEWAGE DISPOSAL SYSTEM

JOB NAME:

**DEPAULIS
ROUTE 17M**
TOWN OF CHESTER, ORANGE COUNTY, NEW YORK

DATE:

2/2/06
JOB NO. 040156
SCALE: 1"=40'
REV. NO. J
DWG. NO. C-1
SHEET 1 OF 8



SEPTIC SYSTEM PLAN

SCALE: 1" = 20'

PERCOLATION TEST:

CREW: MICHAEL C. SANDOR
CHRISTOPHER NORMANN
DATE: 8/26/05

HOLE: 1	DEPTH OF HOLE: 24"	FINISH	DIFFERENCE	DEPTH	FALL
1	12:10:29	12:16:45	0:06:16	1"	
2	12:17:45	12:30:30	0:12:45	1"	
3	12:31:16	12:47:50	0:16:34	1"	
4	12:46:30	13:07:56	0:21:26	1"	
5	1:08:51	1:23:05	0:20:14	1"	

HOLE: 2	DEPTH OF HOLE: 24"	FINISH	DIFFERENCE	DEPTH	FALL
1	12:18:35	12:28:27	0:09:52	1"	
2	12:26:58	12:39:55	0:12:57	1"	
3	12:40:24	12:57:35	0:17:11	1"	
4	12:59:00	13:22:40	0:23:40	1"	
5	1:24:10	1:55:25	0:31:15	1"	
6	1:55:50	2:28:19	0:32:29	1"	

HOLE: 3	DEPTH OF HOLE: 24"	FINISH	DIFFERENCE	DEPTH	FALL
1	1:47:58	2:02:45	0:14:47	1"	
2	2:04:09	2:25:00	0:20:51	1"	
3	2:26:10	2:50:15	0:24:05	1"	
4	2:51:15	3:15:51	0:24:36	1"	
5	3:19:50	3:44:30	0:24:40	1"	

HOLE: 4	DEPTH OF HOLE: 24"	FINISH	DIFFERENCE	DEPTH	FALL
1	1:52:05	1:58:24	0:06:19	1"	
2	2:00:30	2:08:30	0:08:00	1"	
3	2:08:22	2:18:15	0:09:53	1"	
4	2:18:09	2:29:53	0:10:44	1"	
5	2:30:45	2:43:30	0:12:45	1"	
6	2:44:28	2:59:28	0:15:00	1"	
7	3:00:40	3:16:30	0:15:50	1"	

CREW: PATRICK HUTTON, MJS
MIKE ANDERSON, OCHD
DATE: 4/8/08
TIMES ESTABLISHED WITH STOP WATCH

HOLE: 1	DEPTH OF HOLE: 24"	FINISH	DIFFERENCE	DEPTH	FALL
1	0:04:25	1"			
2	0:08:38	1"			
3	0:11:54	1"			
4	0:14:39	1"			
5	0:16:00	1"			
6	0:16:13	1"			

HOLE: 2	DEPTH OF HOLE: 24"	FINISH	DIFFERENCE	DEPTH	FALL
1	0:04:10	1"			
2	0:07:43	1"			
3	0:10:23	1"			
4	0:12:42	1"			
5	0:13:40	1"			

HOLE: 5	DEPTH OF HOLE: 24"	FINISH	DIFFERENCE	DEPTH	FALL
1	11:01:56	11:10:07	0:08:11	1"	
2	11:10:52	11:22:05	0:11:13	1"	
3	11:23:37	11:35:16	0:12:39	1"	
4	11:35:50	11:49:45	0:13:55	1"	
5	11:50:44	12:05:36	0:14:52	1"	

HOLE: 6	DEPTH OF HOLE: 24"	FINISH	DIFFERENCE	DEPTH	FALL
1	11:05:17	11:15:39	0:10:22	1"	
2	11:16:25	11:34:14	0:17:49	1"	
3	11:34:49	11:57:42	0:22:54	1"	
4	11:58:07	12:25:52	0:27:45	1"	
5	12:27:08	12:55:40	0:28:32	1"	

HOLE: 7	DEPTH OF HOLE: 24"	FINISH	DIFFERENCE	DEPTH	FALL
1	12:41:17	12:47:26	0:06:09	1"	
2	12:48:42	12:58:12	0:09:30	1"	
3	12:58:48	1:09:39	0:10:51	1"	
4	1:11:46	1:23:32	0:11:46	1"	

HOLE: 8	DEPTH OF HOLE: 24"	FINISH	DIFFERENCE	DEPTH	FALL
1	0:04:10	1"			
2	0:07:43	1"			
3	0:10:23	1"			
4	0:12:42	1"			
5	0:13:40	1"			

SOIL DEEP TEST:

CREW: JOSEPH GOTTLIEB, PE
DATE: 5/10/05

NO WATER OR BEDROCK ENCOUNTERED
UNLESS OTHERWISE STATED

HOLE: A
0-2" TOPSOIL
2"-24" SILTY LOAM WITH CLAY
24"-60" HARD PAN
ROCK REFUSAL @ 60"

HOLE: B
0-2" TOPSOIL
2"-32" SILTY LOAM WITH CLAY
32"-84" HARD PAN

HOLE: C
0-2" TOPSOIL
2"-32" SILTY LOAM WITH CLAY
32"-84" HARD PAN

HOLE: D
0-2" TOPSOIL
2"-32" SILTY LOAM WITH CLAY
32"-84" HARD PAN

HOLE: E
0-2" TOPSOIL
2"-32" SILTY LOAM WITH CLAY
32"-84" HARD PAN

HOLE: F
0-2" TOPSOIL
2"-32" SILTY LOAM WITH CLAY
32"-84" HARD PAN

HOLE: G
0-2" TOPSOIL
2"-32" SILTY LOAM WITH CLAY
32"-84" HARD PAN

HOLE: H
0-2" TOPSOIL
2"-32" SILTY LOAM WITH CLAY
32"-84" HARD PAN

HOLE: I
0-2" TOPSOIL
2"-32" SILTY LOAM WITH CLAY
32"-84" HARD PAN

HOLE: J
0-2" TOPSOIL
2"-32" SILTY LOAM WITH CLAY
32"-84" HARD PAN

SEPTIC DESIGN BASIS

PROPOSED: 18,000 SF OFFICE BUILDING
FLOW: 18,000 SF x 0.1 GAL/DAY = 1,800 GPD
80% REDUCTION FOR WATER SAVING FIXTURES
1,800 GPD x 0.80 = 1,440 GPD
SEPTIC TANK SIZE REQUIRED = 1.5X 1,440 GPD = 2,160 GAL
SEPTIC TANK PROVIDED: 2,500 GAL
PERCOLATION RATE: 33 MIN./INCH

ELIEN TRENCH SYSTEM

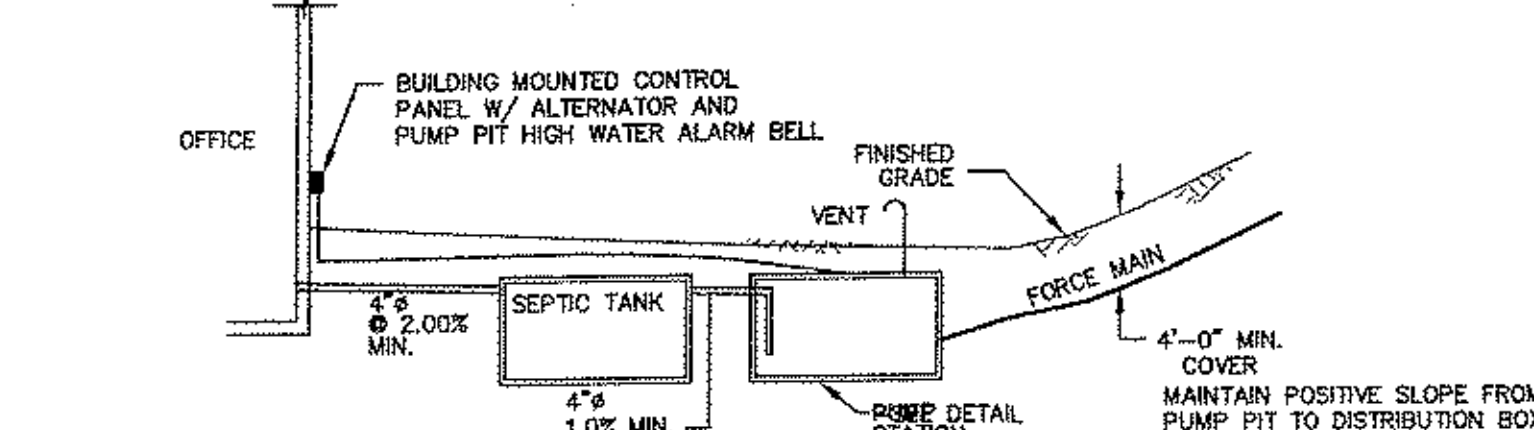
TRENCH LENGTH REQUIRED:
APPLICATION RATE: 0.50
1,440 GAL / 0.50 GPD/SF = 2,880 SF
2,880 SF / 6 LF = 480 LF

PRIMARY SYSTEM

TRENCH LENGTH PROVIDED:
USE 10 LATERALS AT 48"
12 ELIEN UNITS PER TRENCH
120 ELIEN UNITS TOTAL=504 LF TRENCH
DOSING PROVIDED @ 100% LINE VOLUME
(AS PER ORANGE COUNTY DEPARTMENT OF HEALTH)
480 LF x 0.653 GAL / LF = 313.4 GAL OR 41.90 CF
ON/OFF TO BE SET 41.90 CF/34 SF = 1.23"

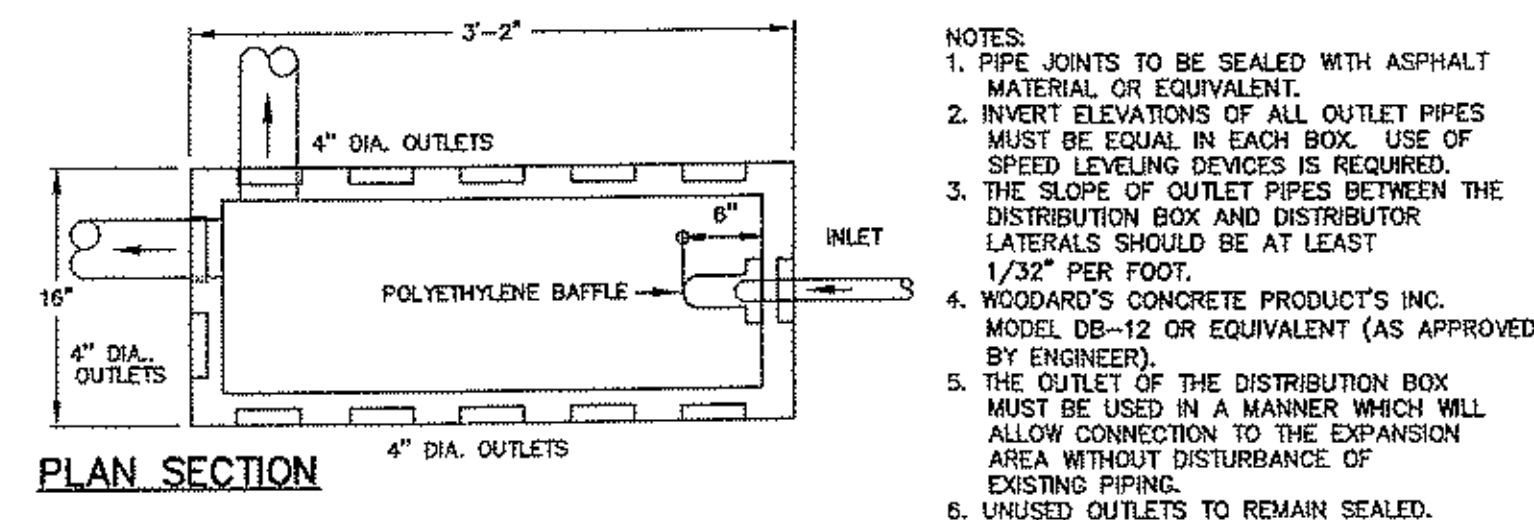
100% EXPANSION

TRENCH LENGTH PROVIDED:
100% EXPANSION SHALLOW TRENCH SYSTEM
USE 9 LATERALS AT 56"
14 ELIEN UNITS PER TRENCH
126 ELIEN UNITS TOTAL=504 LF TRENCH
DOSING PROVIDED @ 100% LINE VOLUME
(AS PER ORANGE COUNTY DEPARTMENT OF HEALTH)
504 LF x 0.653 GAL / LF = 330 GAL OR 44.1 CF
ON/OFF TO BE SET 44.1 CF/34 SF = 1.30"



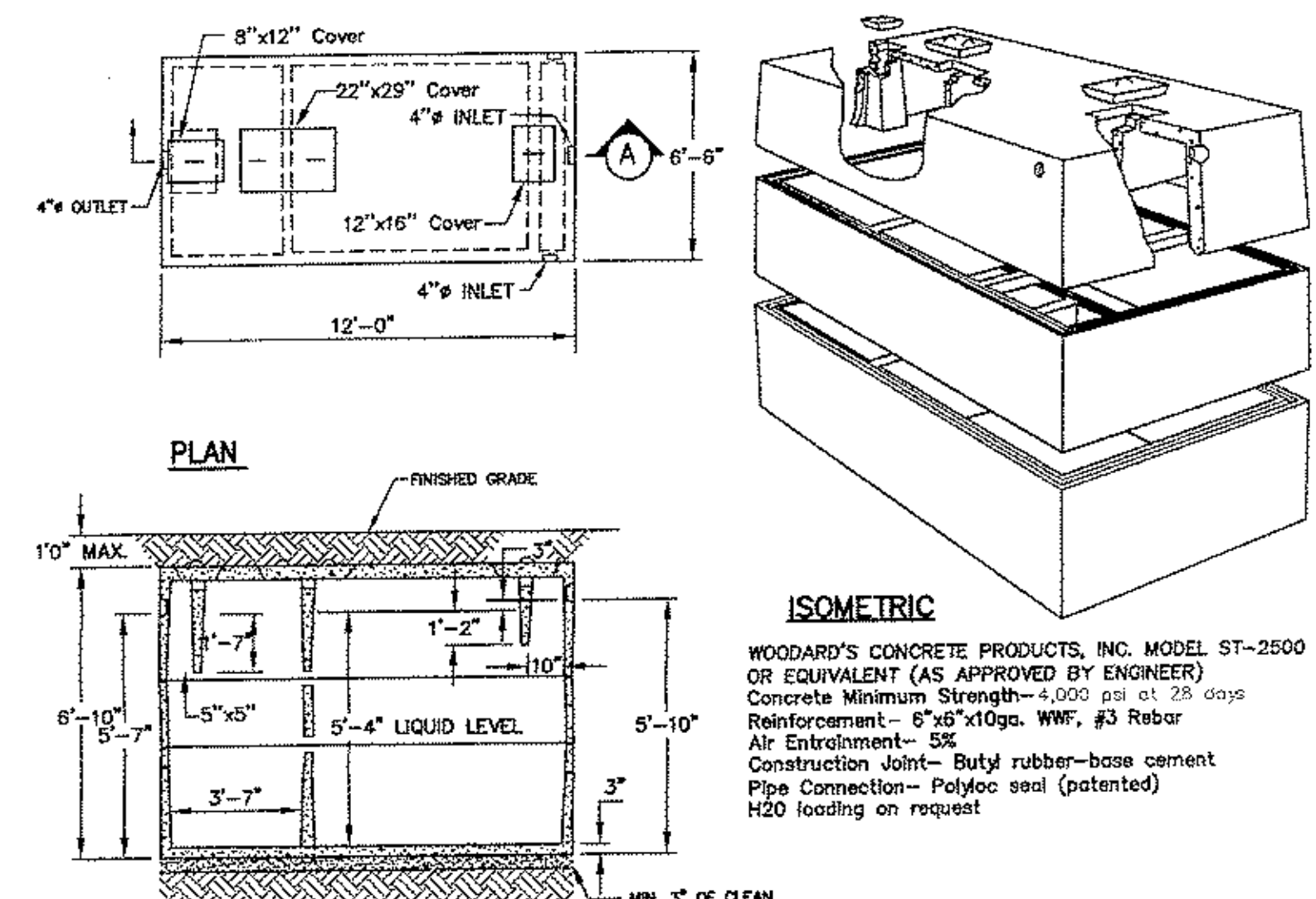
FORCE MAIN & PUMP PIT PROFILE

SCALE: AS SHOWN



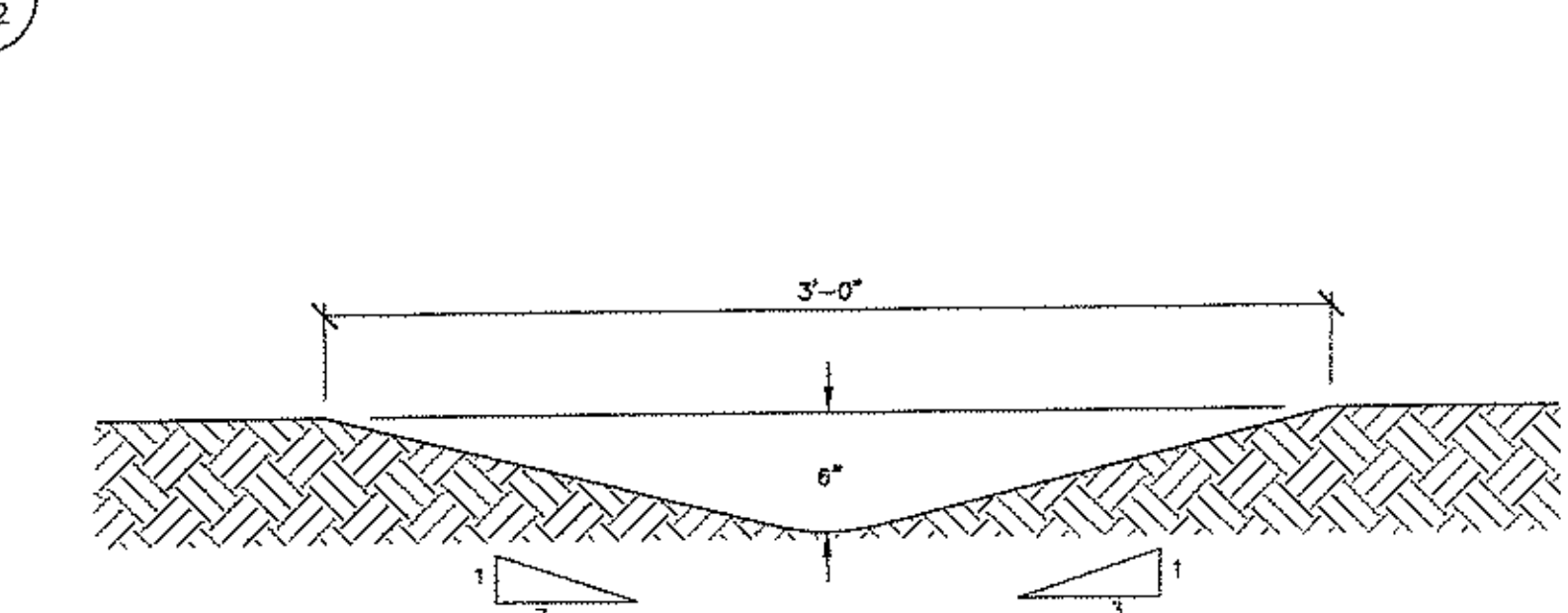
DISTRIBUTION BOX (12 PORT)

SCALE: NTS



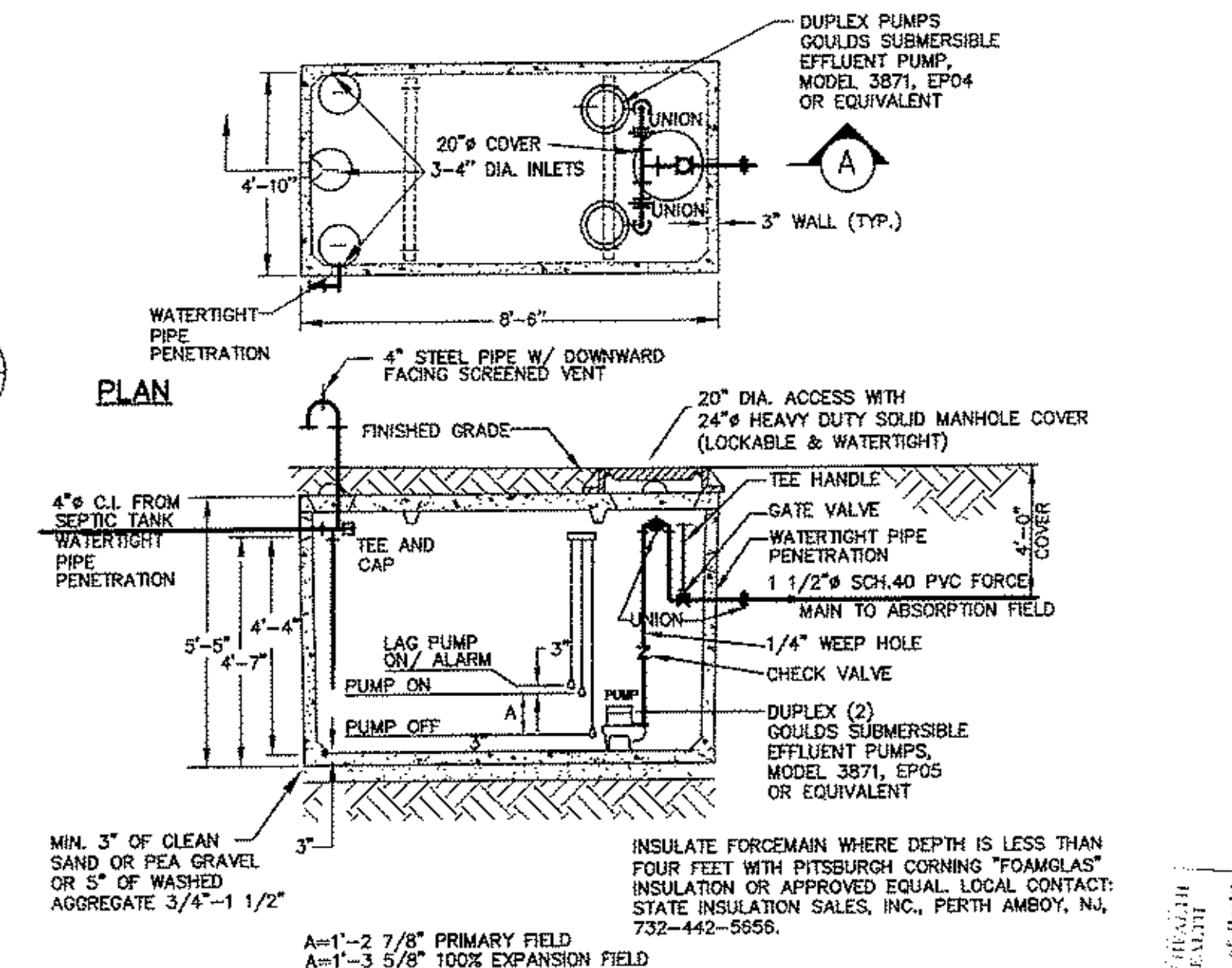
PRECAST SEPTIC TANK-2,500 GALLONS

SCALE: NTS



GRASS LINED SWALE AT SEPTIC FIELD

SCALE: NTS



PUMP STATION PRECAST SEPTIC TANK-1,000 GALLONS

SCALE: NTS

J	10/9/08	REVISED PER OCHD COMMENTS	PAH	M.S.
I	9/5/08	REVISED PER OCHD COMMENTS	PAH	M.S.
H	10/23/08	REVISED PER NYSDOT COMMENTS	PAH	M.S.
G	1/23/08	REVISED PER OCHD COMMENTS	PAH	M.S.
E	7/24/07	REVISED PER NYSDOT COMMENTS	BJC	M.S.
D	1/29/07	REVISED PER NYSDOT COMMENTS	BJC	M.S.
C	11/1/06	REVISED TITLE BLOCK	BGC	M.S.
B	4/19/06	SUBMITTED FOR PLANNING BOARD REVIEW	BJC	M.S.
A	2/2/06	SUBMITTED FOR PLANNING BOARD REVIEW	BJC	M.S.
NO.	DATE	REVISION	BY	CK.

MICHAEL J. SANDOR PE
NY PROFESSIONAL ENGINEER NO. 60445

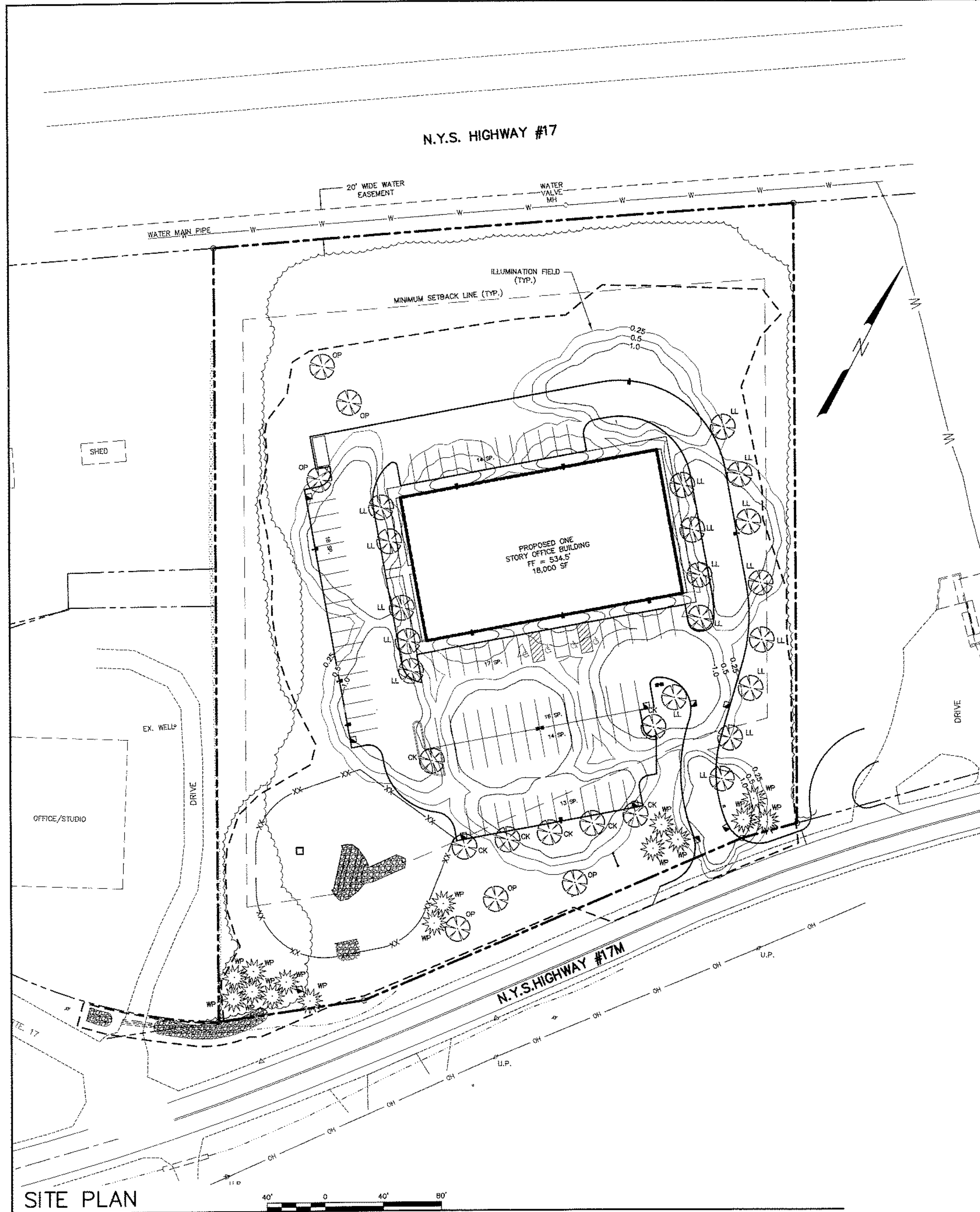
DRAWN BY: B. CHRISTIE
DEPT. CK. M. SANDOR
DEP. APPR.
COORD. CK.
P.M. APPR.
CLIENT APPR.

MJS ENGINEERING & LAND SURVEYING, PC
261 Greenwich Ave
Goshen, NY 10924
845-291-8650
Fax 845-291-8657

SHEET TITLE:
SEWAGE DISPOSAL SYSTEM & DETAILS

JOB NAME:
DEPAULIS ROUTE 17M
TOWN OF CHESTER, ORANGE COUNTY, NEW YORK

DATE: 2/2/06
JOB NO. 040156
SCALE: 1"=20'
REV. NO. J
DWG. NO. C-2
SHEET 2 OF 8

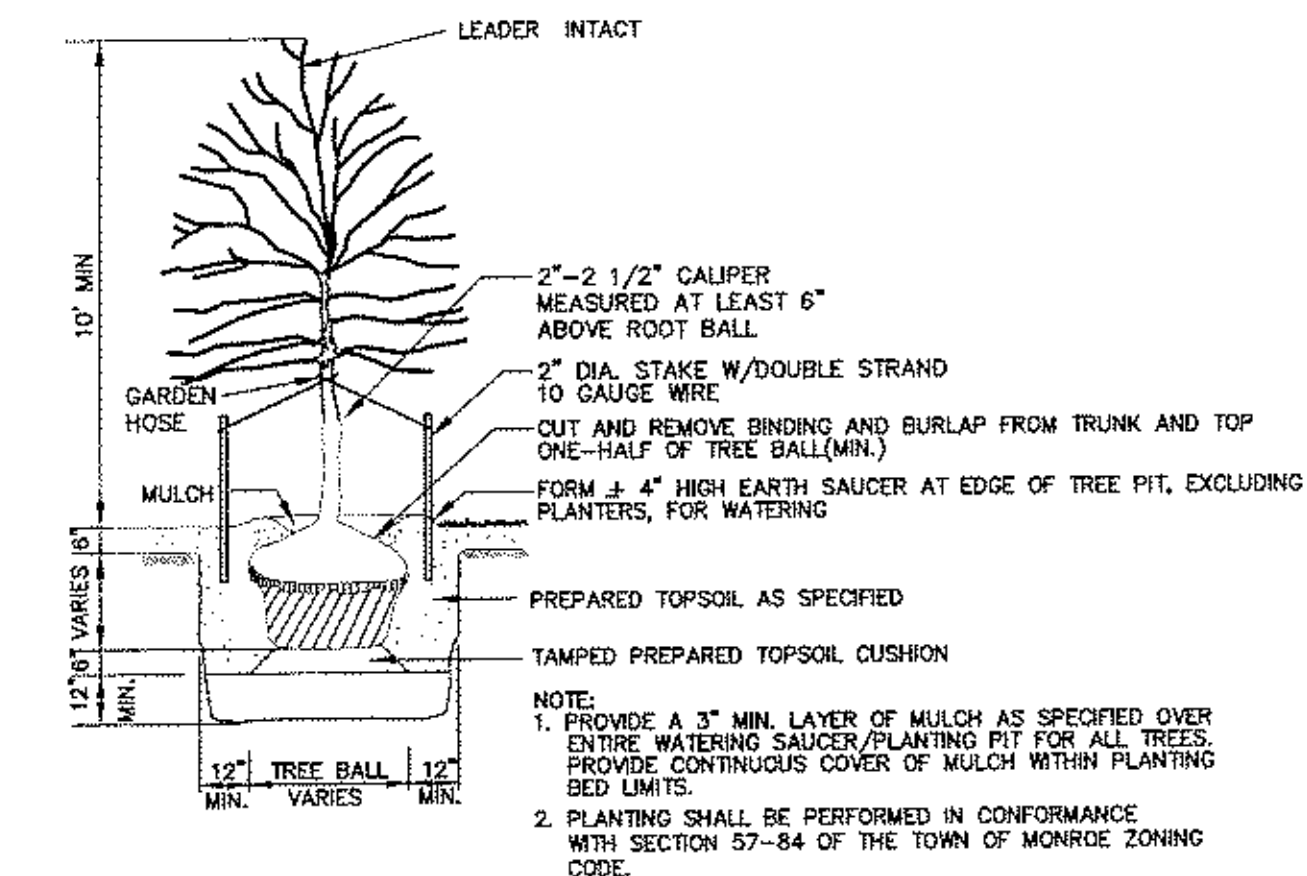


LEGEND

- EXISTING WETLAND APPROXIMATE
- SETBACK
- PROPERTY LINE
- PROPOSED DWELLING
- EXISTING TREE LINE
- X 506.00 EXISTING SPOT ELEVATION
- X 505.00 PROPOSED SPOT ELEVATION
- 510 EXISTING CONTOUR
- 520 PROPOSED CONTOUR
- SWALE
- X X EXISTING FENCE LINE
- EXISTING SWALE
- PROPOSED SAN. LINE
- PROPOSED WATER LINE
- EXISTING WATER LINE
- PROPOSED LIGHT
- PROPOSED STORM LINE
- PROPOSED DRAIN INLET
- PROPOSED DECIDUOUS TREE
- PROPOSED CONIFEROUS TREE

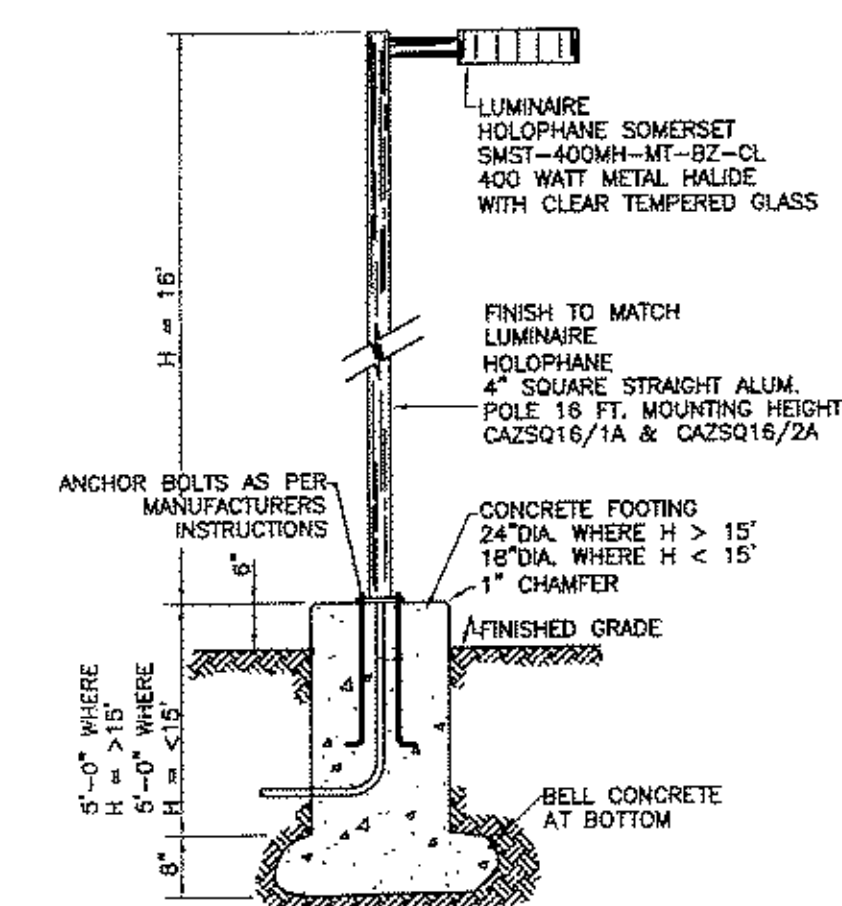
PLANT LIST:

TREE LIST:	BOTANICAL NAME	COMMON NAME	NUMBER	SIZE	SYMBOL
	TILIA CORDATA	GREENSPICE LITTLELEAF LINDEN	18	1 1/2" DIA. B&B	LL
	PYRUS CALLERYANA	CLEVELAND SELECT ORNAMENTAL PEAR	6	1 1/2" DIA. B&B	CP
	ACER PLATANOIDES	CRIMSON KING MAPLE	7	1 1/2" DIA. B&B	CK
		WHITE PINE	15	1 1/2" DIA. B&B	WP



TREE PLANTING

SCALE: NTS

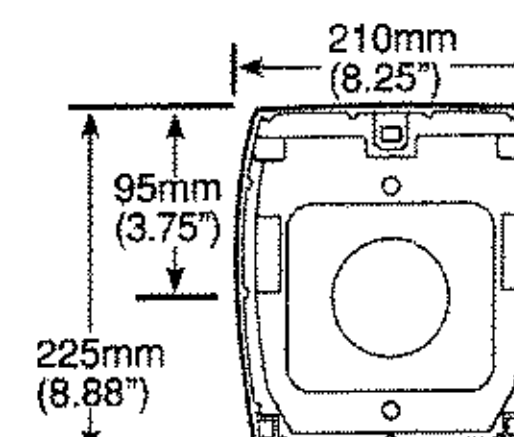
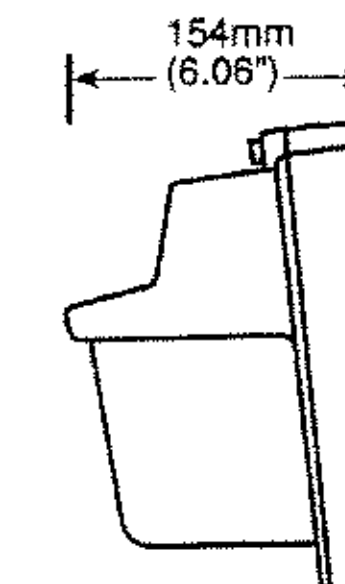


SITE LIGHTING: POLE MOUNTED LIGHTING: HOLOPHANE COMMERCIAL OUTDOOR AREA LUMINAIRE, SMST, 400 WATT METAL HALIDE ON 5 3/4" ARM MOUNT, 16 FT. MOUNTING HEIGHT ON SQUARE STRAIGHT ALUMINUM POLE. INSTALL BEHIND CURB.

LUMINAIRE

SCALE: NTS

WP1 Series



WP2 Series

WALLPACKETTE WALL MOUNT:
MODEL #WP1A050HP00XX
MOUNT HEIGHT: 12'

WALL MOUNT LIGHT

SCALE: NTS

SIGN

SCALE: NTS

NOT REVIEWED OR APPROVED BY THE ORANGE COUNTY HEALTH DEPARTMENT
THIS PLAN INCOMPLETE AND INVALID UNLESS ACCOMPANIED BY EACH OF THE 8 SHEETS

NO.	DATE	REVISION	BY	CK.
F	9/5/08	REVISED PER OCHD COMMENTS	BGC	M.S.
E	3/6/08	REVISED PER NYSDOT COMMENTS	BGC	M.S.
D	10/23/07	REVISED PER NYSDOT COMMENTS	PAH	M.S.
C	1/29/07	REVISED PER NYSDOT COMMENTS	BJC	M.S.
B	11/1/06	ADDED SIGN	BGC	M.S.
A	4/19/06	SUBMITTED FOR PLANNING BOARD REVIEW	BJC	M.S.

MICHAEL J. SANDOR PE
NY PROFESSIONAL ENGINEER NO. 60445

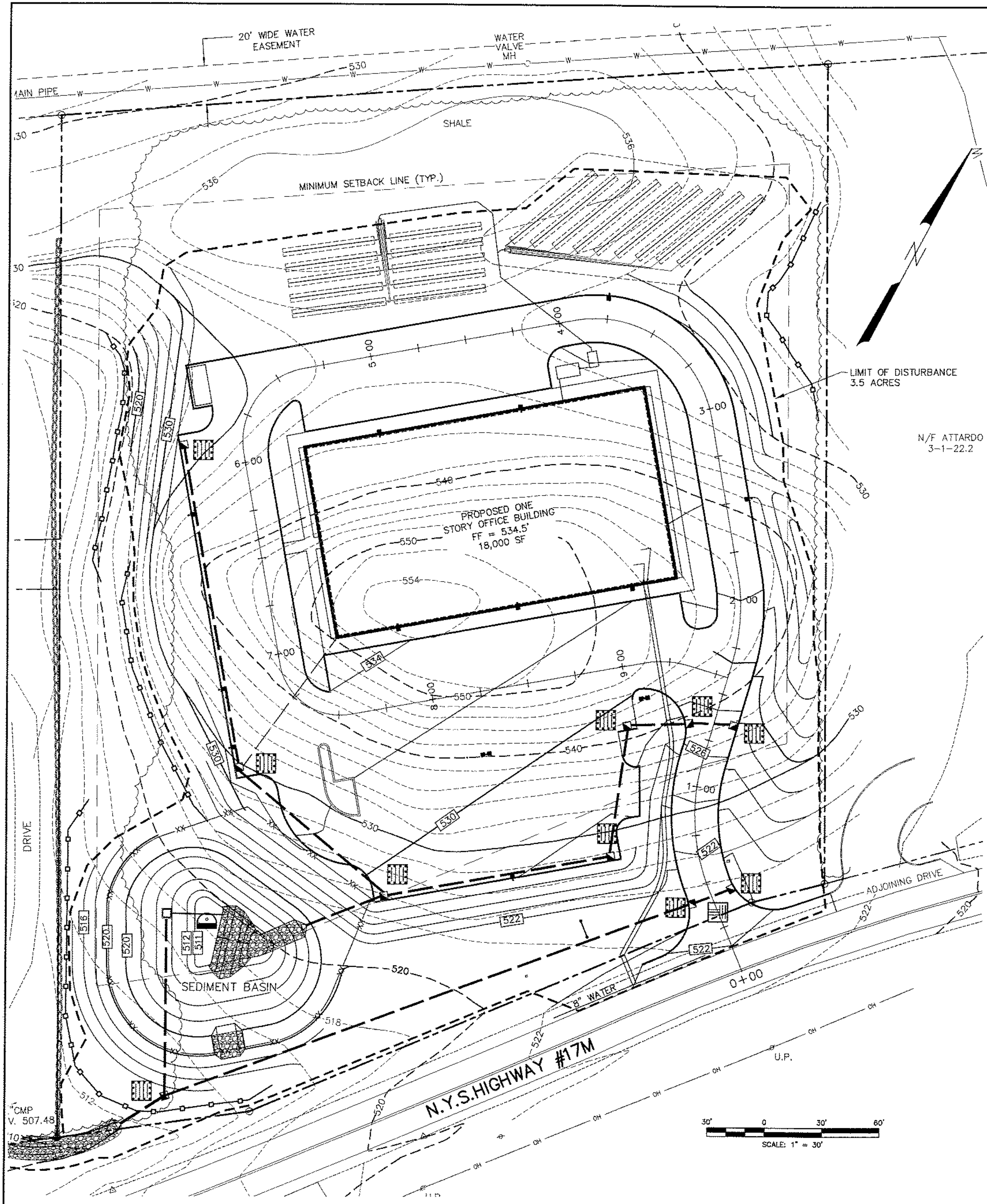
DRAWN BY: B. CHRISTIE
DEPT. CK. M. SANDOR
DEP. APPR.
COORD. CK.
P.M. APPR.
CLIENT APPR.

MJS ENGINEERING &
LAND SURVEYING, PC
261 Greenwich Ave
Goshen, NY 10924
845-291-8650
Fax 845-291-8657

SHEET TITLE:
**LANDSCAPE, LIGHTING
& DETAILS**

JOB NAME:
**DEPAULIS
ROUTE 17M**
TOWN OF CHESTER, ORANGE COUNTY, NEW YORK

DATE: 2/2/06
JOB NO.
040156
SCALE:
AS SHOWN
REV. NO. F
DWG. NO.
C-3
SHEET 3 OF 8



PLAN

SCALE: 1" = 30'

NOT FOR REVIEW OR APPROVAL OF ORANGE COUNTY HEALTH DEPARTMENT

NO.	DATE	REVISION	BY	CK.
D	3/6/08	REVISED PER NYSOT COMMENTS	BGC	M.S.
C	1/29/07	REVISED PER NYSOT COMMENTS	BGC	M.S.
B	4/19/06	REVISED PER PLANNING BOARD COMMENTS	BGC	M.S.
A	2/2/06	SUBMITTED FOR PLANNING BOARD REVIEW	BGC	M.S.

MICHAEL J. SANDOR PE
NY PROFESSIONAL ENGINEER NO. 60445

DRAWN BY: B. CHRISTIE
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DEP. APPR.
COORD. CK.
P.M. APPR.
CLIENT APPR.

MJS ENGINEERING & LAND SURVEYING, PC
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845-291-8650
Fax 845-291-8657

STORMWATER STORAGE & CONVEYANCE NOTE:

ALL STORMWATER STORAGE AND CONVEYANCE FACILITIES SHALL BE INSTALLED, TO THE SATISFACTION OF THE TOWN ENGINEER, COMPLIANCE WITH THE REQUIREMENTS OF SECTION 88-13 OF THE TOWN CODE, INCLUDING DELIVERY OF THE REQUIRED STORMWATER CONTROL FACILITY MAINTENANCE AGREEMENT PRIOR TO MAP SIGNING IS REQUIRED.

CONSTRUCTION SEQUENCE:

1. INSTALLATION OF STABILIZED CONSTRUCTION ENTRANCE.
2. INSTALLATION OF SILT FENCING AS SHOWN ON THE PLAN.
3. GENERAL SITE CLEARING OF TREES AND VEGETATION FOR THE AREAS DISTURBED.
4. SOIL STOCKPILING AND ROUGH GRADING.
5. CONSTRUCTION OF THE SEDIMENT BASIN.
6. INSTALL SUBBASE FOR THE PARKING LOT.
7. TEMPORARY SEEDING.
8. CONSTRUCTION OF BUILDING.
9. INSTALLATION OF THE STORMWATER CONVEYANCE SYSTEM, INCLUDING INLET PROTECTION.
10. INSTALL CURB AROUND THE PARKING LOT.
11. PLACE BASE COURSE OF ASPHALT.
12. TOPSOIL, PERMANENT SEEDING, AND LANDSCAPING.
13. UPON FINAL COMPLETION OF BUILDING, INSTALL ASPHALT TOP COURSE.
14. REMOVE EROSION AND SEDIMENT CONTROL.

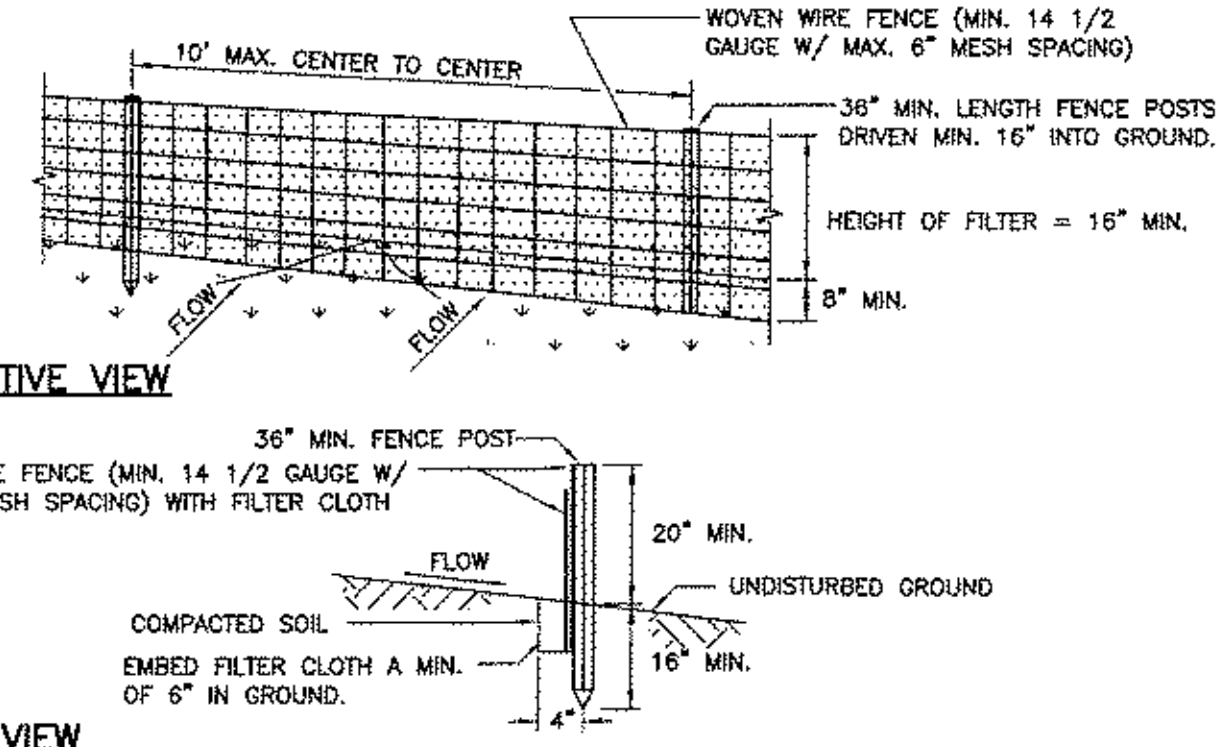
LEGEND:

- SEDIMENT BASIN
- SILT FENCE
- STABILIZED CONSTRUCTION ENTRANCE
- STONE & BLOCK DROP INLET PROTECTION STRUCTURE
- LIMIT OF DISTURBANCE

SILT FENCE

SCALE: NTS

NOT FOR REVIEW OR APPROVAL OF ORANGE COUNTY HEALTH DEPARTMENT

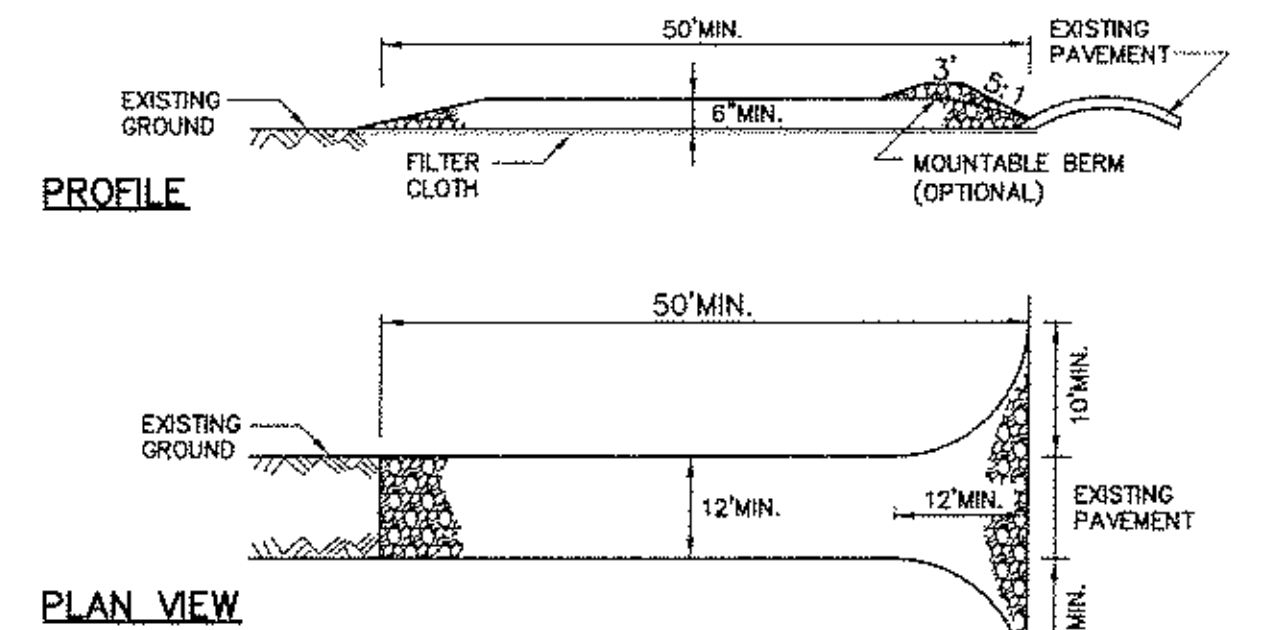


PERSPECTIVE VIEW

SECTION VIEW

CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12 1/2 GAUGE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER KIMRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOTAB, ENVROFENCE, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.



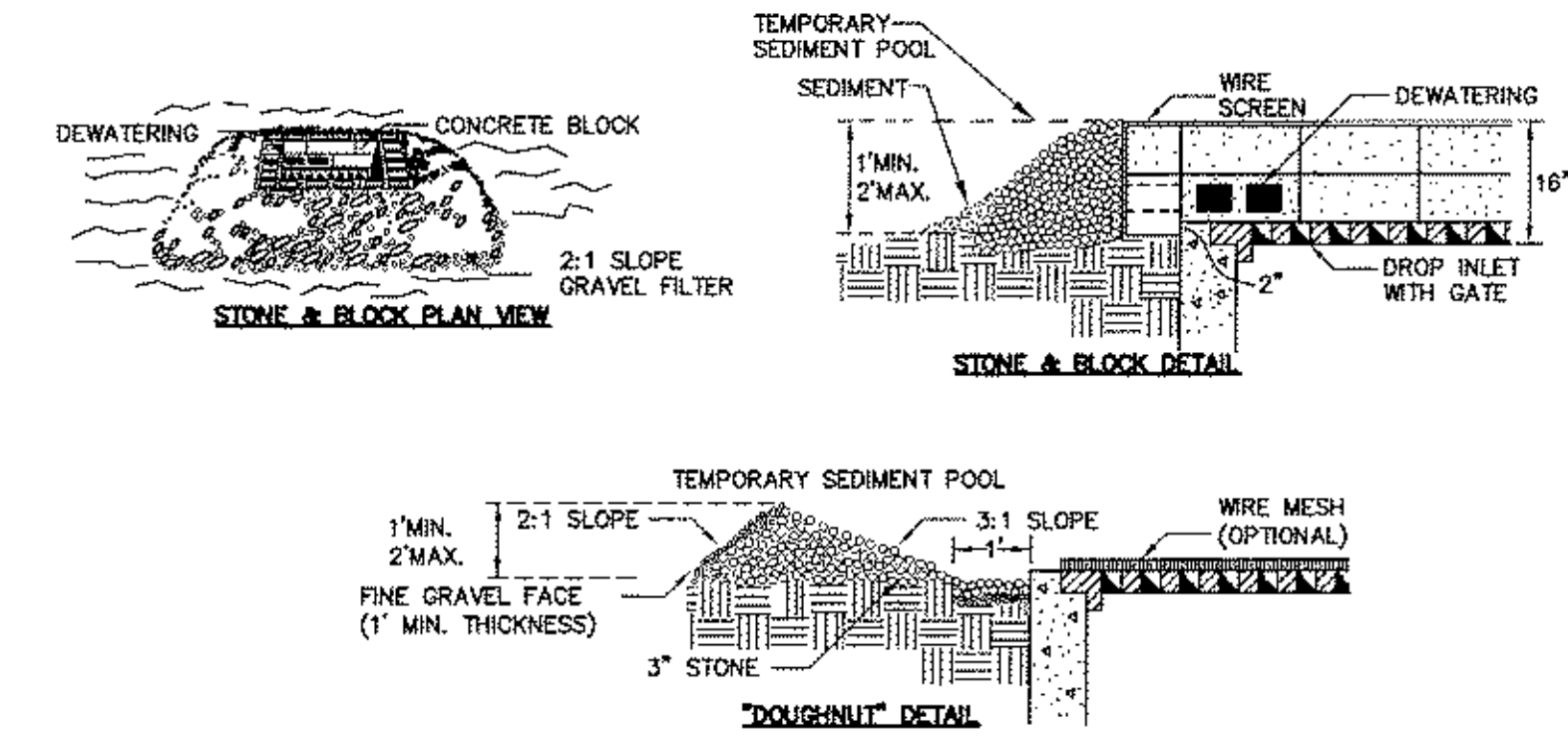
CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT-TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE

SCALE: NTS

NOT FOR REVIEW OR APPROVAL OF ORANGE COUNTY HEALTH DEPARTMENT



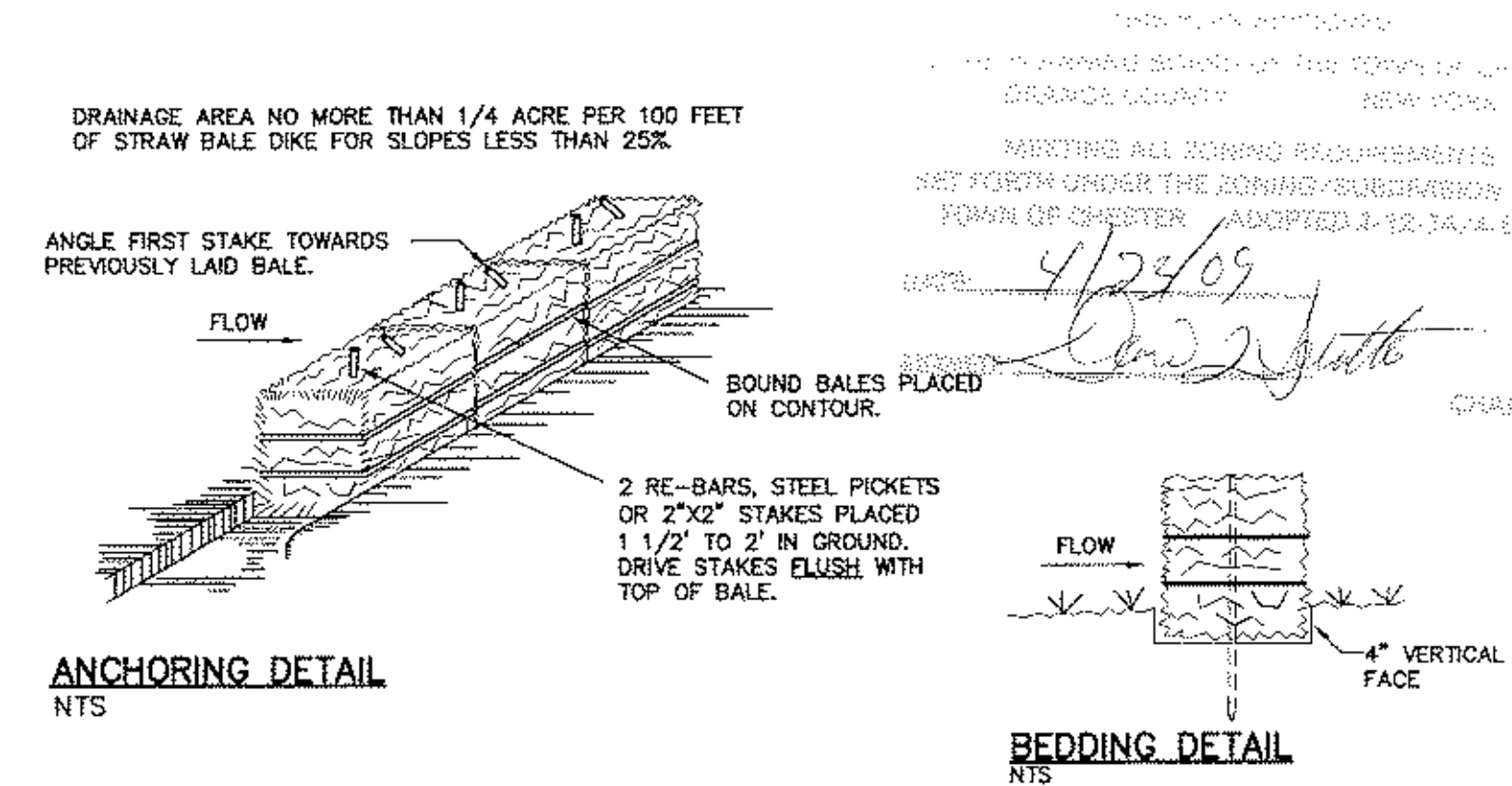
CONSTRUCTION SPECIFICATIONS

1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
2. HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
3. USE CLEAN STONE OR GRAVEL 1/2-3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
4. FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS.
5. MAXIMUM DRAINAGE AREA 1 ACRE

STONE & BLOCK DROP INLET PROTECTION

SCALE: NTS

NOT FOR REVIEW OR APPROVAL OF ORANGE COUNTY HEALTH DEPARTMENT



CONSTRUCTION SPECIFICATIONS

1. BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
4. INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

STRAW BALE DIKE

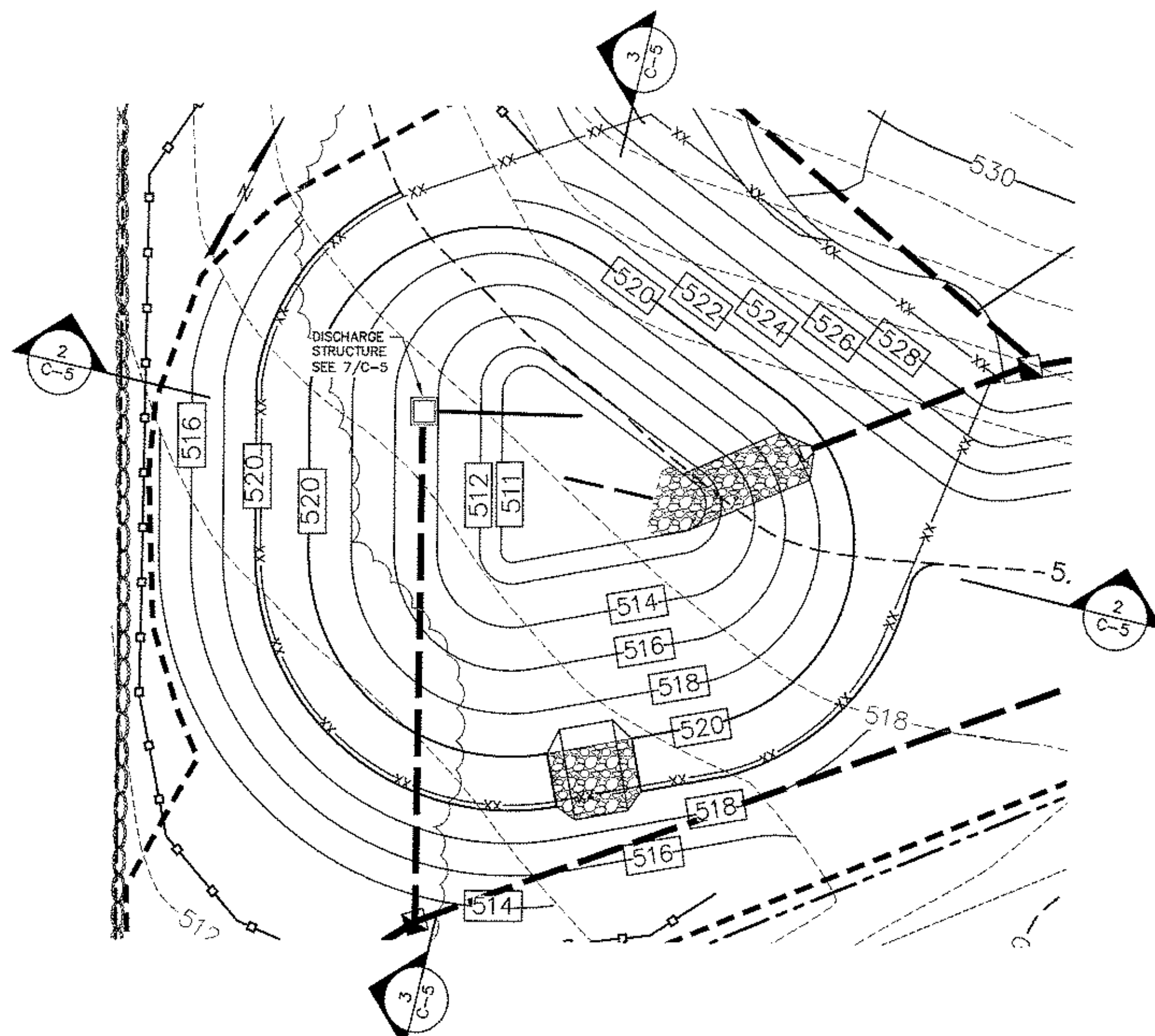
SCALE: NTS

NOT FOR REVIEW OR APPROVAL OF ORANGE COUNTY HEALTH DEPARTMENT

SHEET TITLE:
EROSION AND SEDIMENT CONTROL PLAN

JOB NAME:
DEPAULIS ROUTE 17M
TOWN OF CHESTER, ORANGE COUNTY, NEW YORK

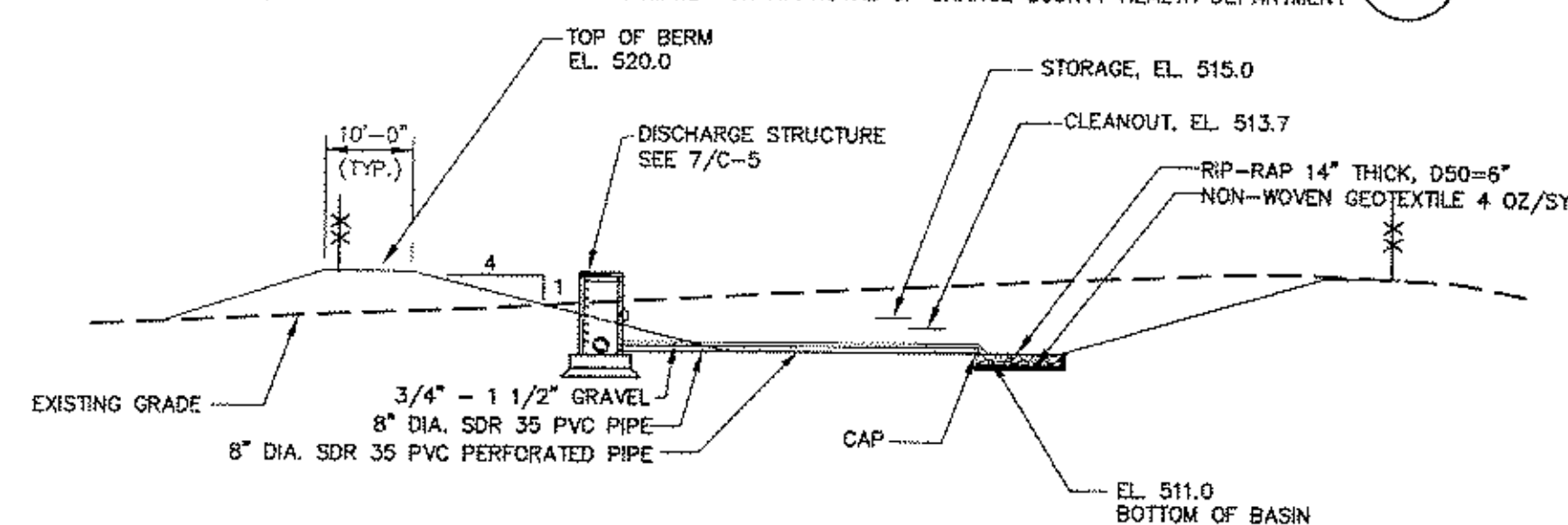
DATE: 2/2/06
JOB NO. 040156
SCALE: 1"=30'
REV. NO. D
DWG. NO. C-4
SHEET 4 OF 8



PLAN - SEDIMENT BASIN
(DURING CONSTRUCTION)

SCALE: 1" = 20'

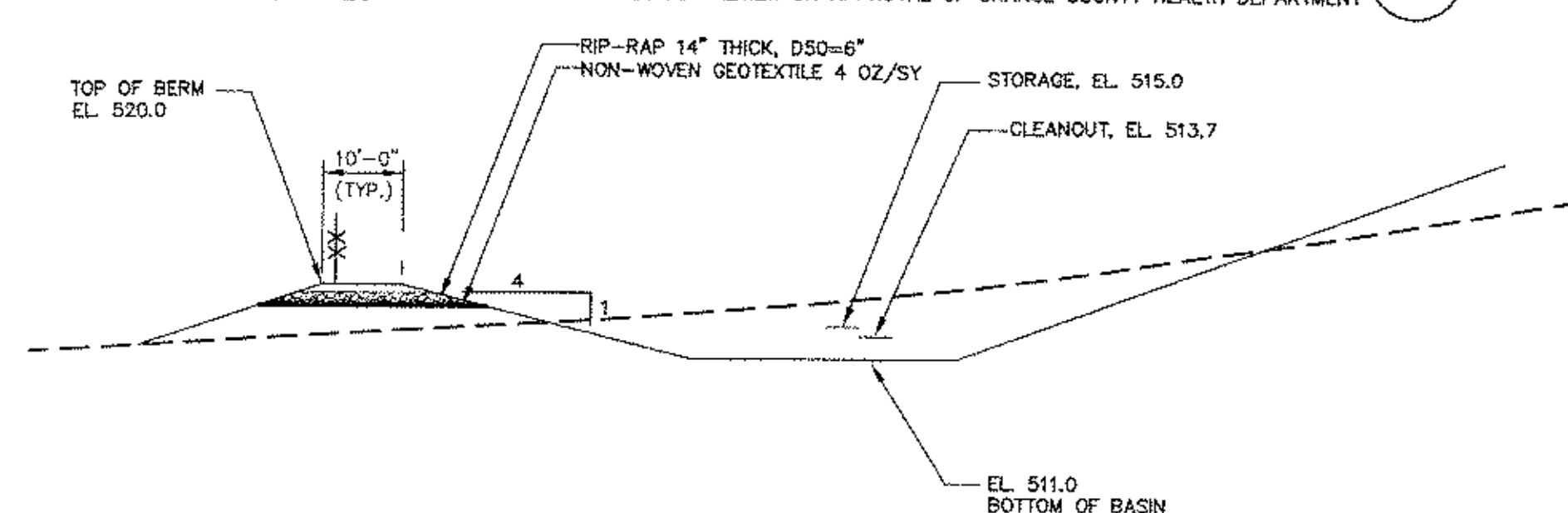
NOT FOR REVIEW OR APPROVAL OF ORANGE COUNTY HEALTH DEPARTMENT



SECTION - SEDIMENT BASIN

SCALE: 1" = 20'

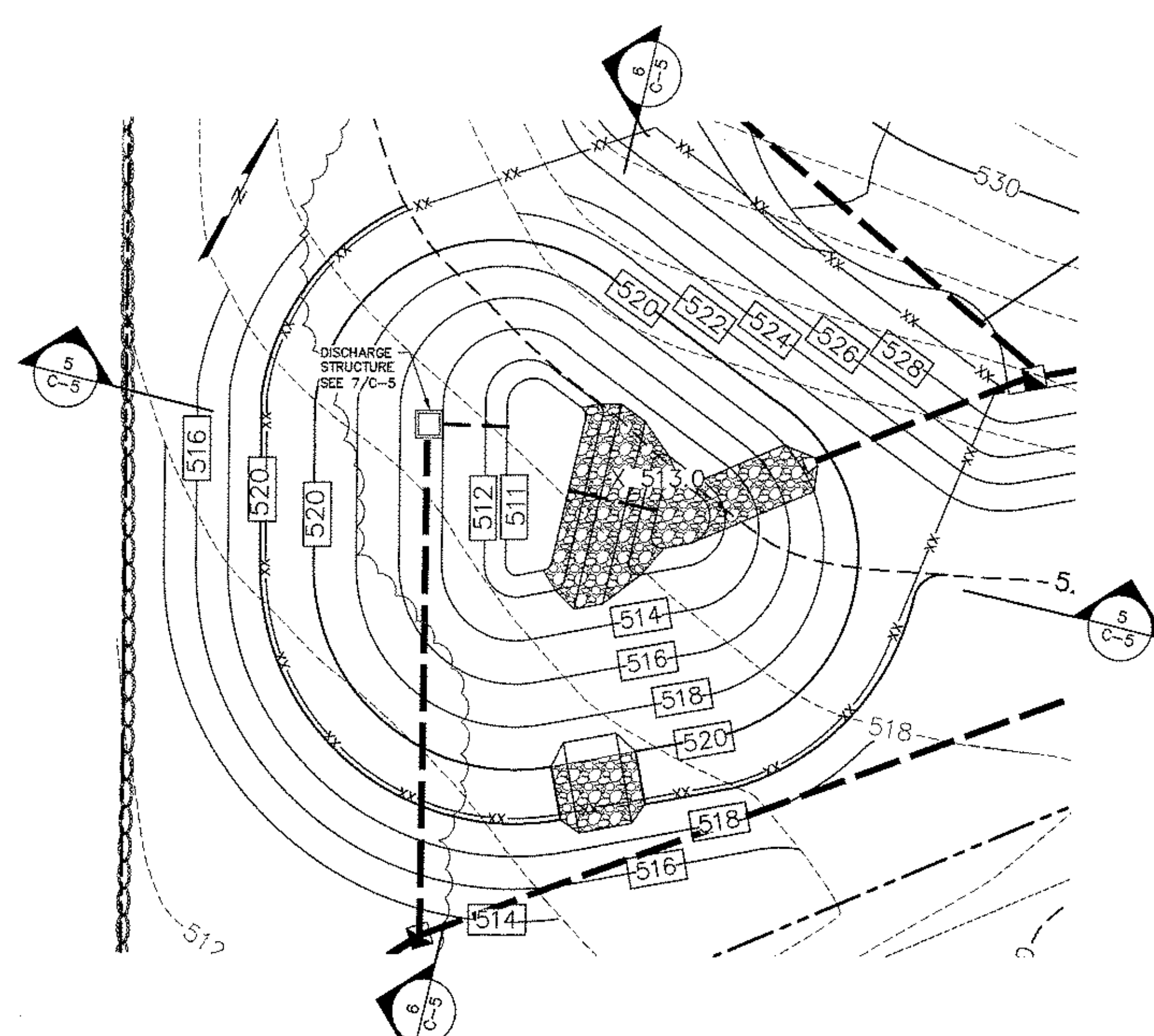
NOT FOR REVIEW OR APPROVAL OF ORANGE COUNTY HEALTH DEPARTMENT



SECTION - SEDIMENT BASIN

SCALE: 1" = 20'

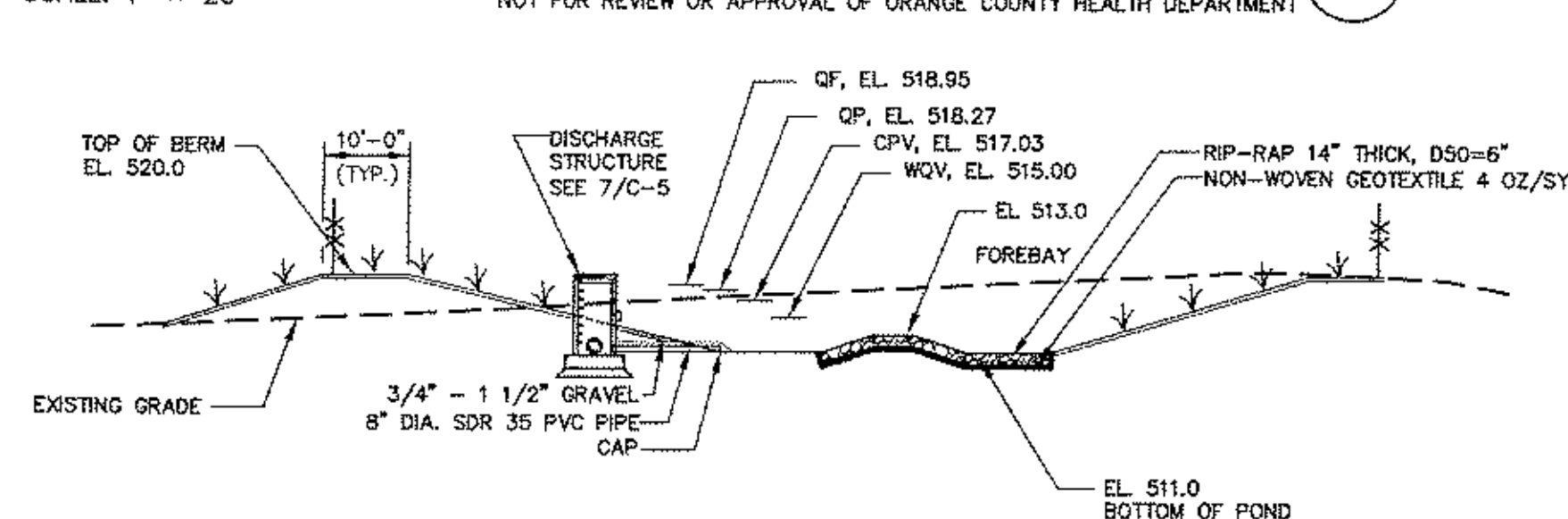
NOT FOR REVIEW OR APPROVAL OF ORANGE COUNTY HEALTH DEPARTMENT



PLAN - DETENTION POND

SCALE: 1" = 20'

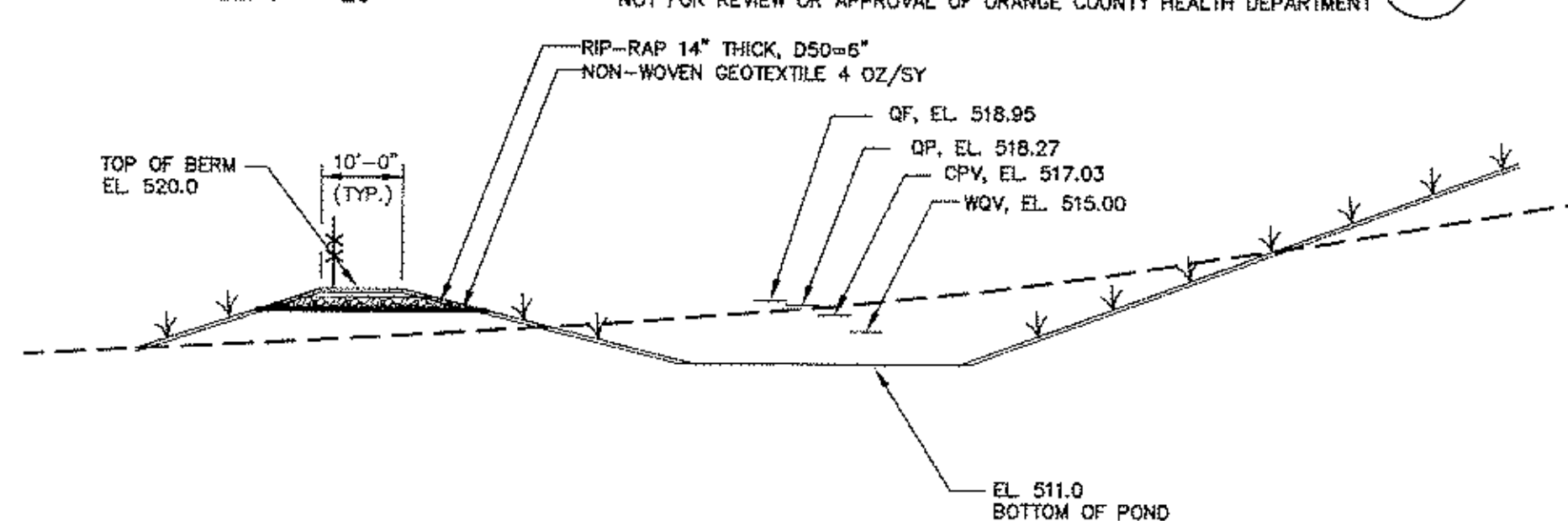
NOT FOR REVIEW OR APPROVAL OF ORANGE COUNTY HEALTH DEPARTMENT



SECTION - DETENTION POND

SCALE: 1" = 20'

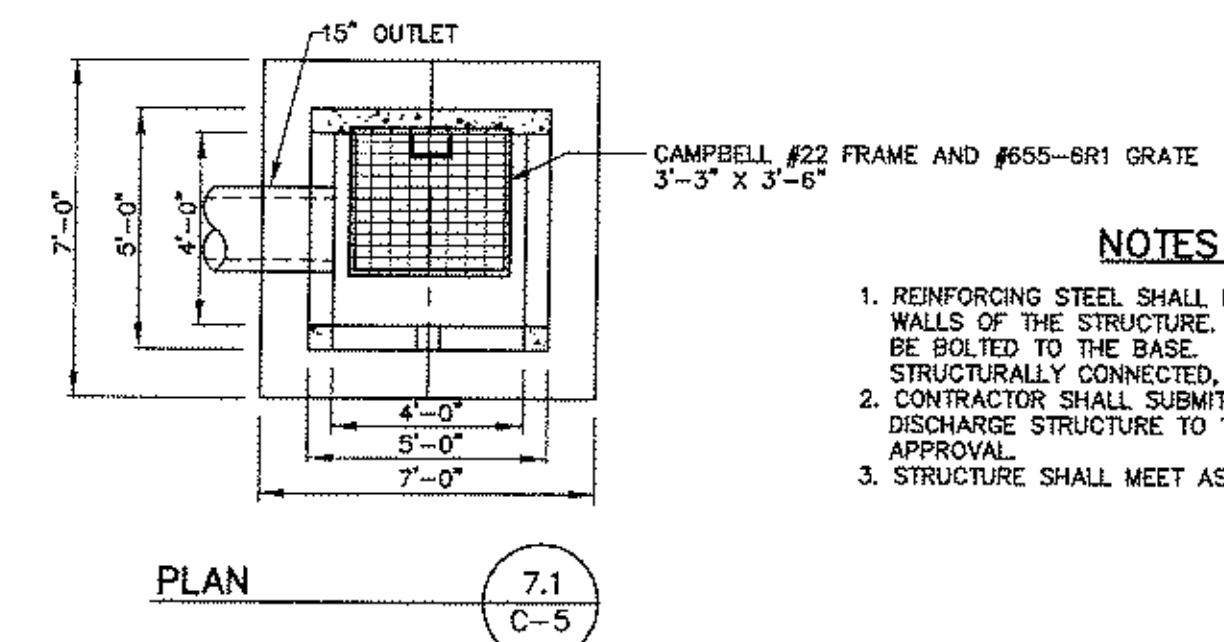
NOT FOR REVIEW OR APPROVAL OF ORANGE COUNTY HEALTH DEPARTMENT



SECTION - DETENTION POND

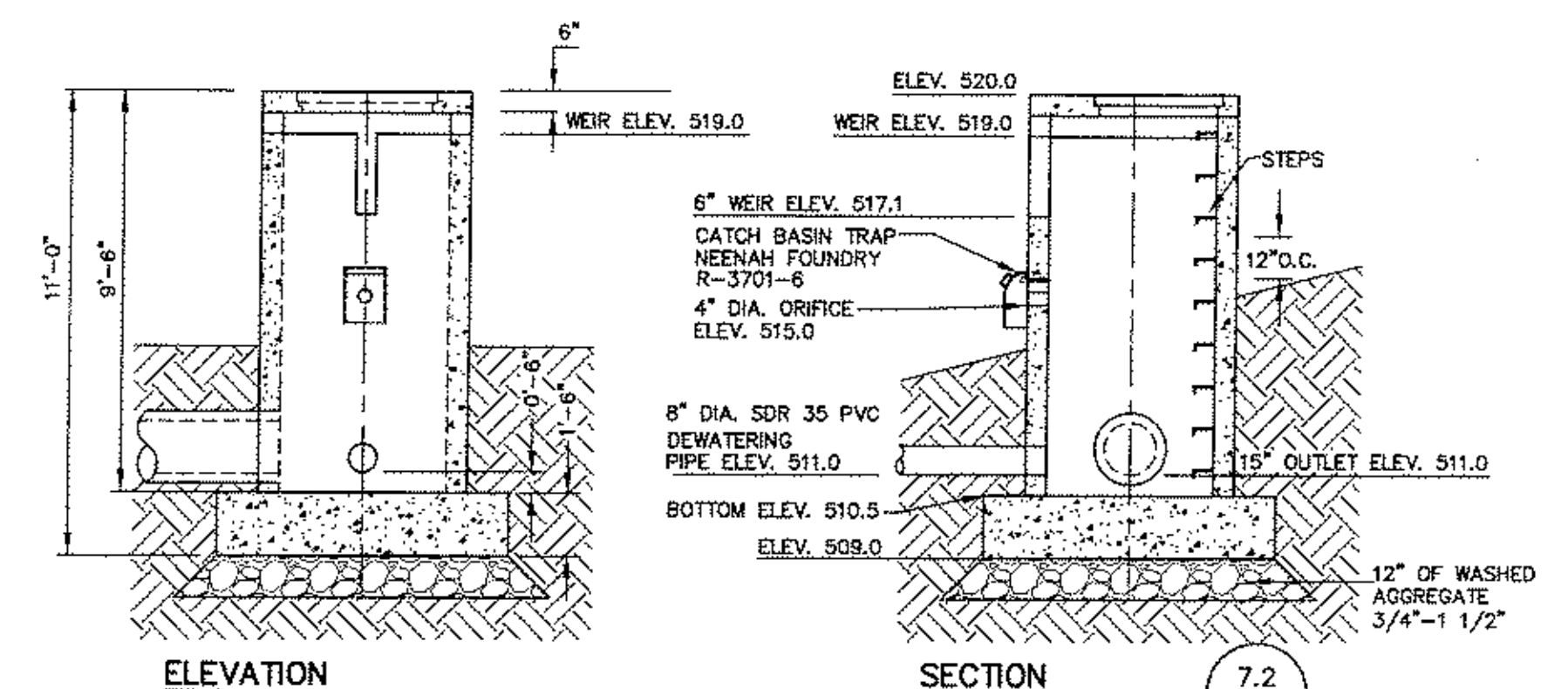
SCALE: 1" = 20'

NOT FOR REVIEW OR APPROVAL OF ORANGE COUNTY HEALTH DEPARTMENT



NOTES

1. REINFORCING STEEL SHALL EXTEND FROM THE BASE TO THE WALLS OF THE STRUCTURE. ALTERNATELY, THE WALLS SHALL BE BOLTED TO THE BASE. THE ENTIRE STRUCTURE SHALL BE STRUCTURALLY CONNECTED, TO PREVENT UPLIFT.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE DISCHARGE STRUCTURE TO THE ENGINEER FOR REVIEW AND APPROVAL.
3. STRUCTURE SHALL MEET ASTM C478 SPECIFICATIONS.



DISCHARGE STRUCTURE

SCALE: 1/4" = 1'-0"

NOT FOR REVIEW OR APPROVAL OF ORANGE COUNTY HEALTH DEPARTMENT

SEDIMENT BASIN MAINTENANCE:

SEDIMENT BASIN WILL BE CONSTRUCTED AT THE LOW POINT OF THE PROPERTY. WATER FROM DISTURBED AREAS WILL BE DIRECTED TO THE BASIN BEFORE LEAVING THE SITE. AN 8 INCH DIAMETER DEWATERING PIPE SHALL BE INSTALLED IN THE BASIN. THE END OF THIS PIPE WILL BE CLOSED OFF WITH A CAP.

LEGEND:

- WQV WATER QUALITY VOLUME
- CPV CHANNEL PROTECTION VOLUME
- QP OVERBANK FLOOD
- QF EXTREME STORM

THIS PLAN INCOMPLETE AND INVALID UNLESS ACCOMPANIED BY EACH OF THE 8 SHEETS

PLANNING AND DESIGN, INC.

NO.	DATE	REVISION	BY	CK.
C	1/23/08	REVISED DRAINAGE STRUCTURE	BGC	M.S.
B	1/29/07	REVISED PER NYSDOT COMMENTS	BGC	M.S.
A	3/01/06	SUBMITTED FOR PLANNING BOARD REVIEW	BGC	M.S.

MICHAEL J. SANDOR PE
NY PROFESSIONAL ENGINEER NO. 60445

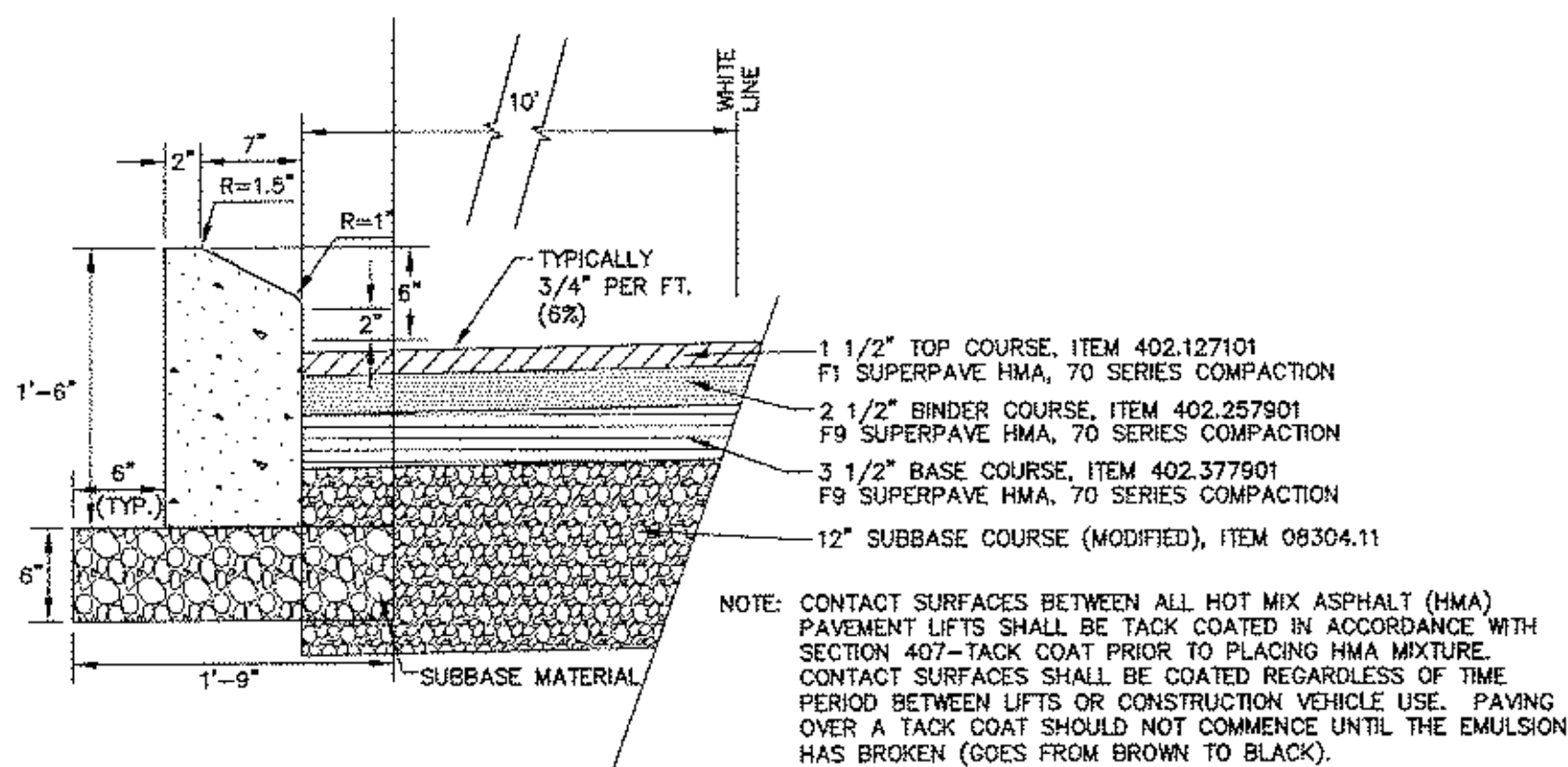
DRAWN BY: B. CHRISTIE
DEPT. CK. M. SANDOR
DEP. APPR.
COORD. CK.
P.M. APPR.
CLIENT APPR.

MJS ENGINEERING &
LAND SURVEYING, PC
261 Greenwich Ave
Goshen, NY 10924
845-291-8650
Fax 845-291-8657

SHEET TITLE:
**SEDIMENT BASIN &
DETENTION POND
SECTIONS**

JOB NAME:
**DEPAULIS
ROUTE 17M**
TOWN OF CHESTER, ORANGE COUNTY, NEW YORK

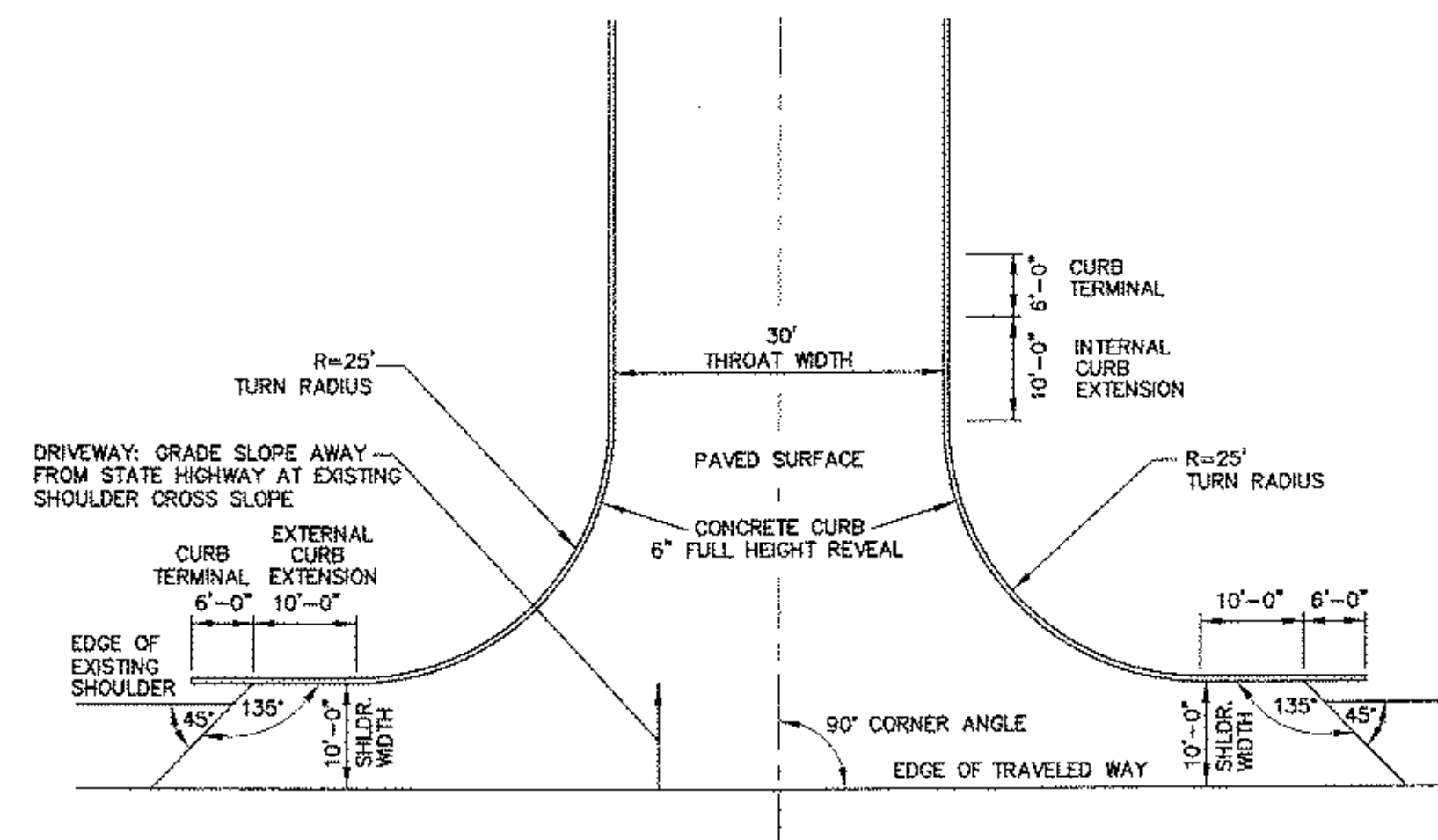
DATE: 2/2/06
JOB NO.: 040156
SCALE: 1"=30'
REV. NO. C
DWG. NO. C-5
SHEET 5 OF 8



NYSDOT TYPE AB CURB & SHOULDER

SCALE: 1" = 1'-0"

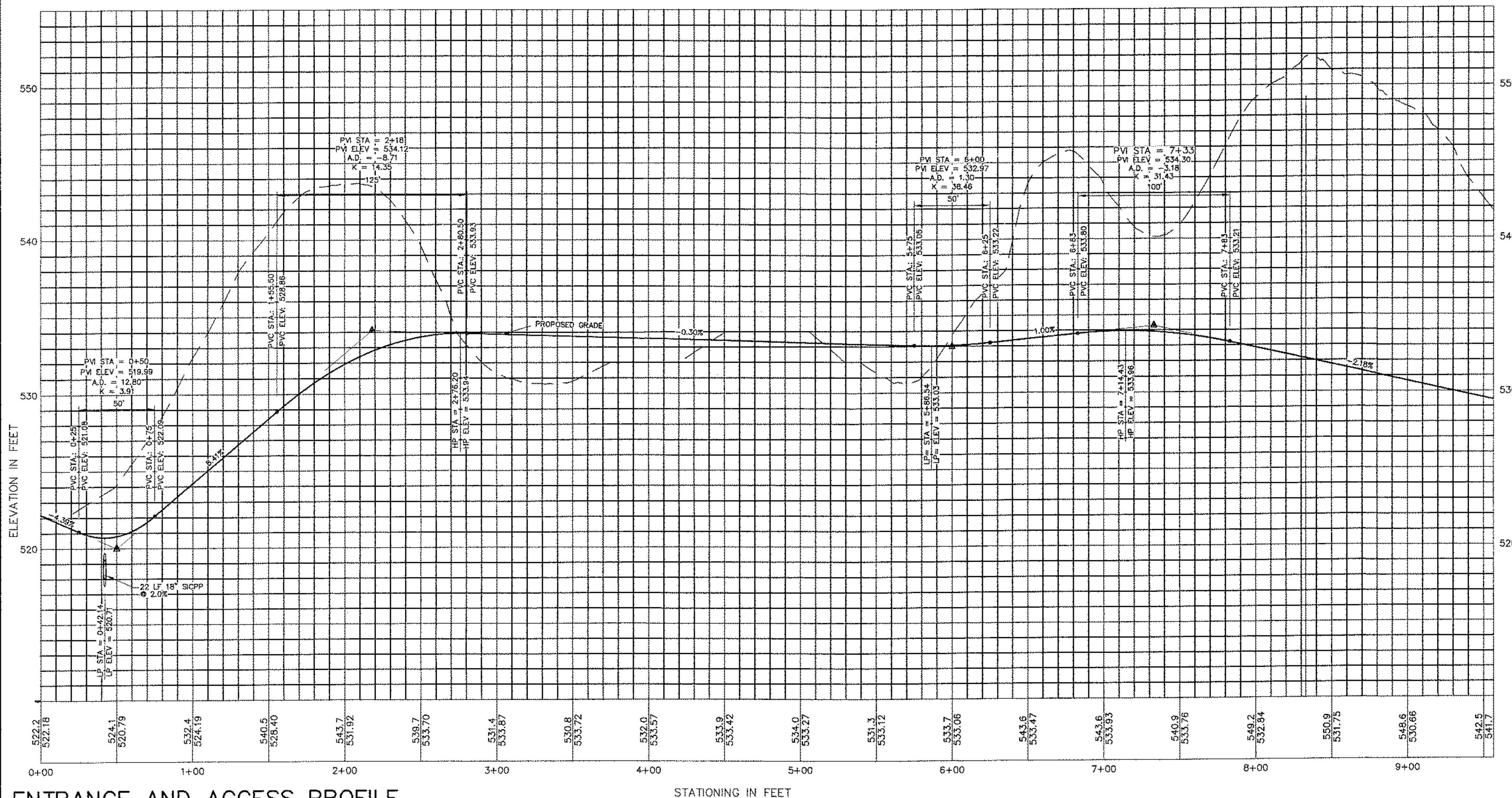
1
C-6



NYSDOT STANDARD COMMERCIAL DRIVEWAY DETAIL

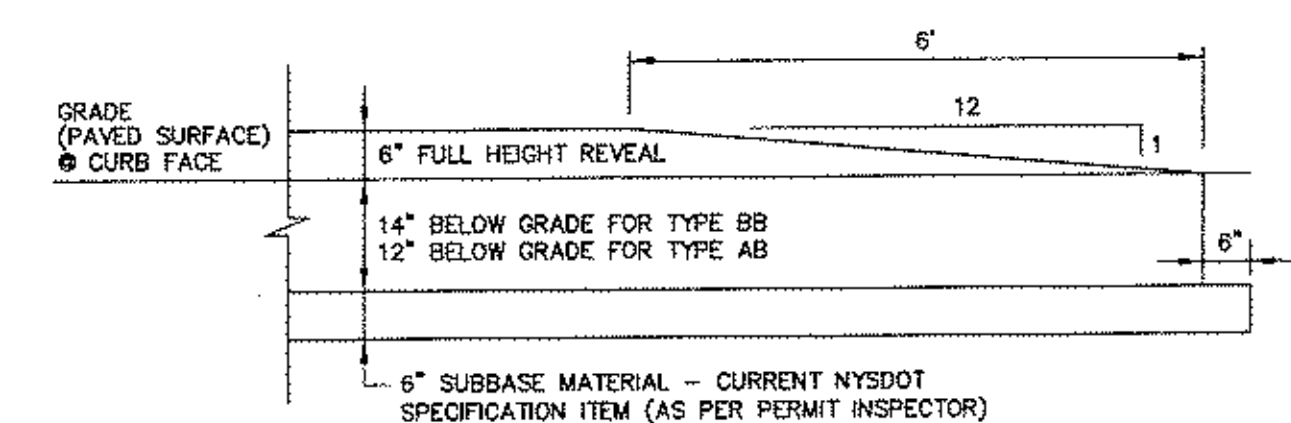
SCALE: NTS

2
C-6



ENTRANCE AND ACCESS PROFILE

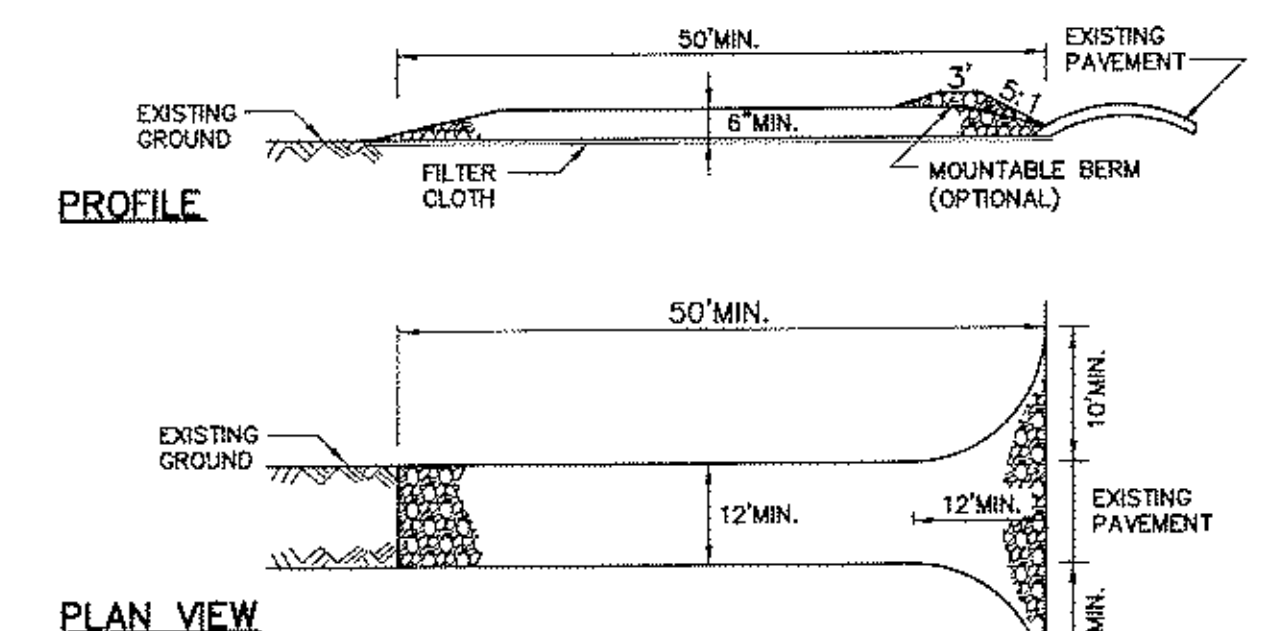
STATIONING IN FEET



NYSDOT STANDARD 6 FOOT CURB TERMINAL

SCALE: NTS

3
C-6

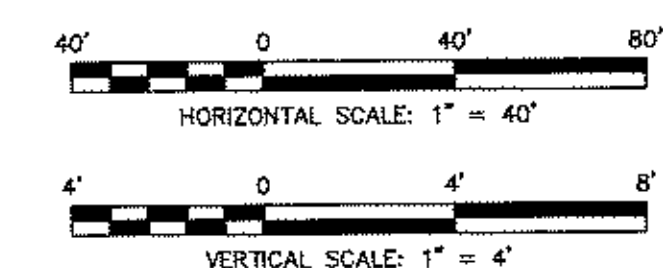


CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
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9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE

SCALE: NTS



THIS PLAN INCOMPLETE AND INVALID UNLESS ACCOMPANIED BY EACH OF THE 8 SHEETS NOT FOR REVIEW OR APPROVAL OF ORANGE COUNTY HEALTH DEPARTMENT

NO.	DATE	REVISION	BY	CK.
C	1/29/07	REVISED PER NYSDOT COMMENTS	BJC	M.S.
B	11/1/06	REVISED TITLE BLOCK	BGC	M.S.
A	2/2/06	SUBMITTED FOR PLANNING BOARD REVIEW	BJC	M.S.

Michael J. Sandor
MICHAEL J. SANDOR PE
NY PROFESSIONAL ENGINEER NO. 60445

DRAWN BY: B. CHRISTIE
DEPT. CK. M. SANDOR
DEF. APPR.
COORD. CK.
P.M. APPR.
CLIENT APPR.

MJS ENGINEERING & LAND SURVEYING, PC
261 Greenwich Ave
Goshen, NY 10924
845-291-8650
Fax 845-291-8657

SHEET TITLE:

PROFILE & DETAILS

JOB NAME:

**DEPAULIS
ROUTE 17M**

TOWN OF CHESTER, ORANGE COUNTY, NEW YORK

DATE: 2/2/06

JOB NO.

040156

SCALE:

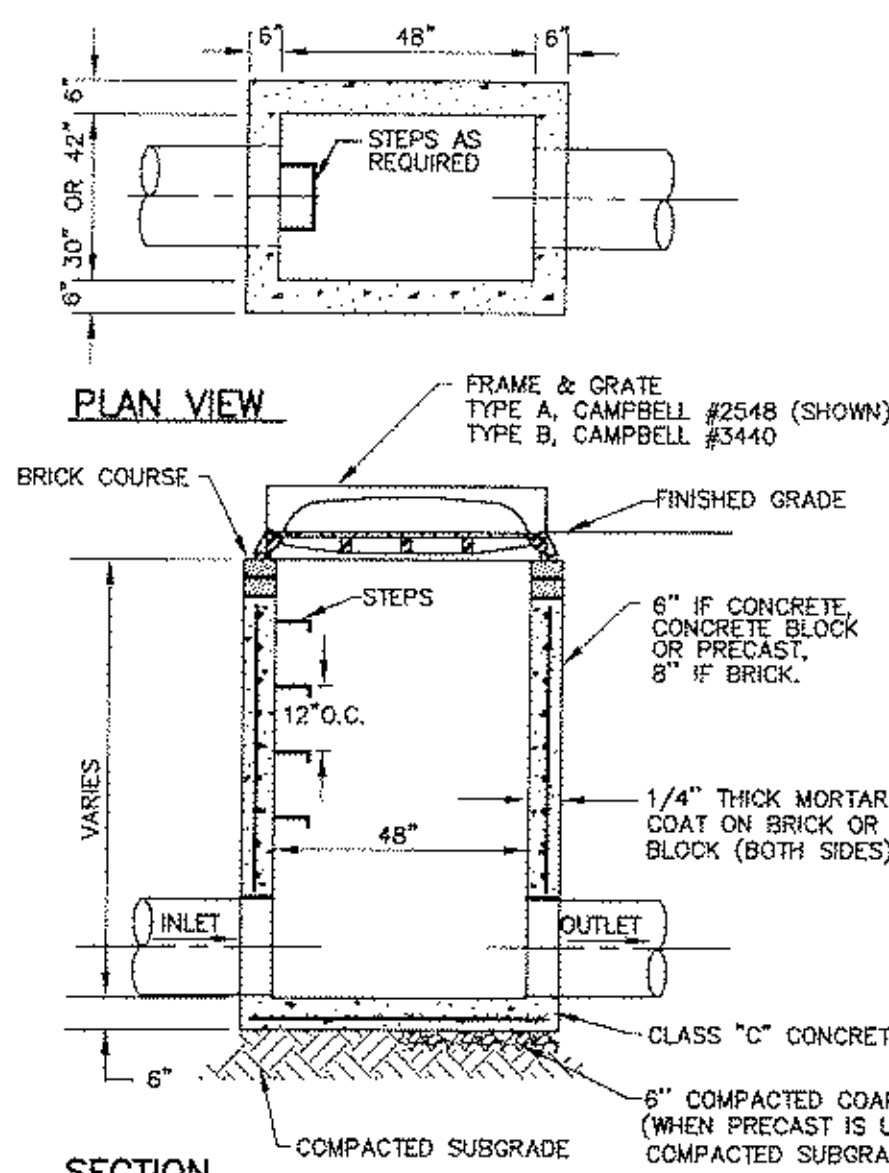
AS NOTED

REV. NO. C

DWG. NO.

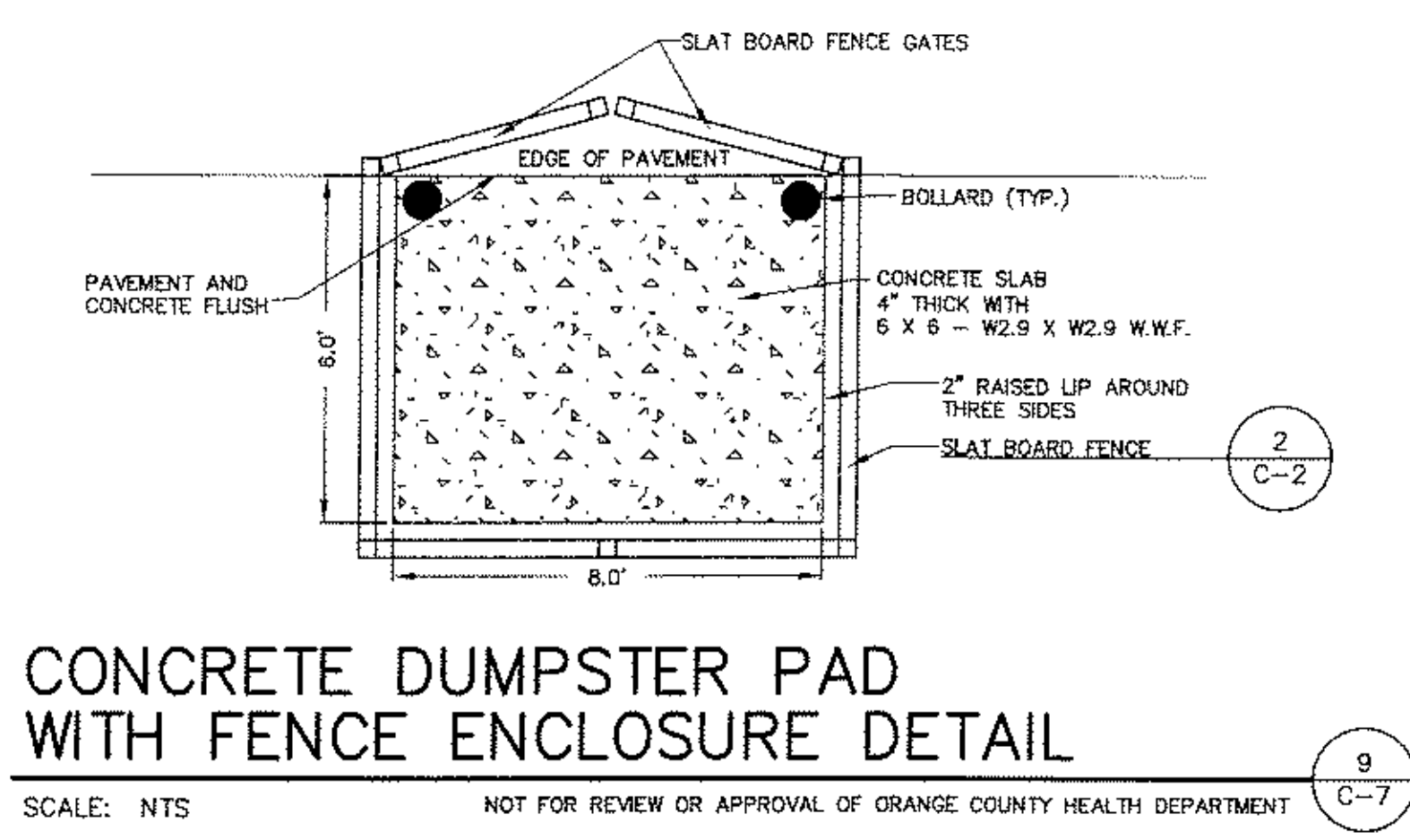
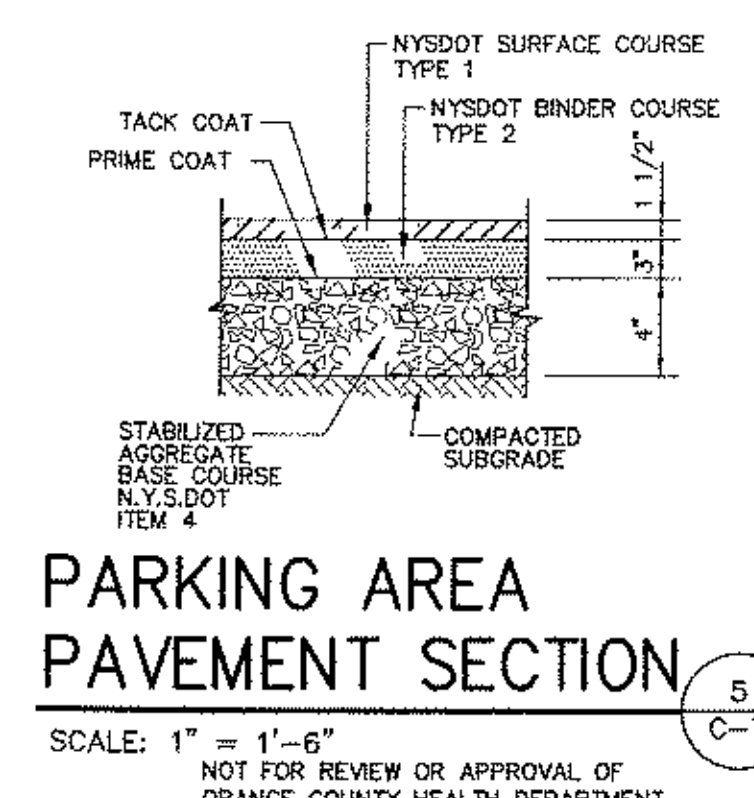
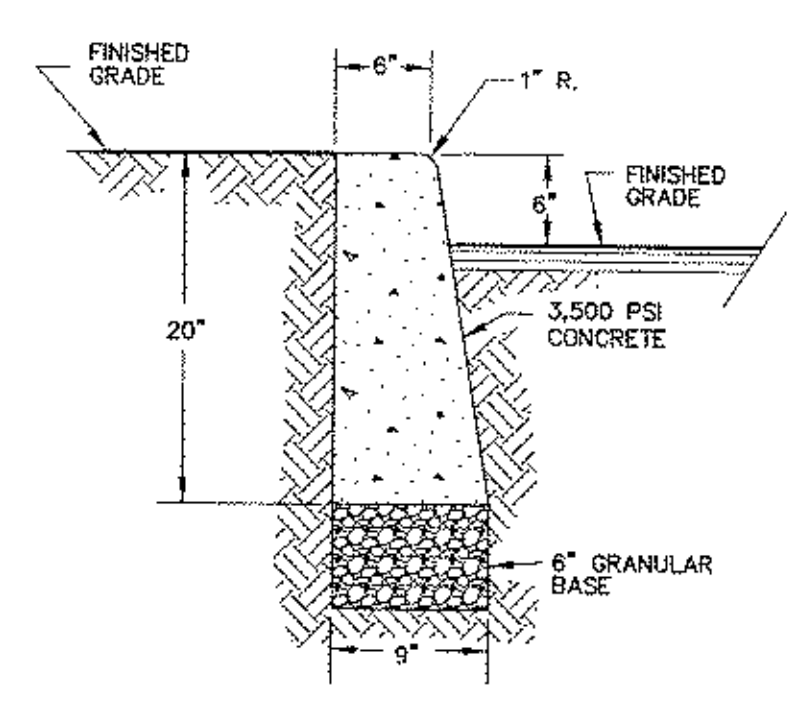
C-6

SHEET 6 OF 8



NOTES:

- INLET MAY BE CONSTRUCTED OF BRICK, CONCRETE BLOCK, CONCRETE, OR PRECAST CONCRETE.
- IF BRICK OR CONCRETE BLOCK IS USED, THE BOTTOM SHALL BE AS SHOWN FOR CONCRETE.
- BLOCK SHALL BE STANDARD INLET CORNER AND STRETCHER BLOCKS.
- CONCRETE TO BE CLASS "C".
- PRECAST CONCRETE SHALL BE 4,000 PSI CONCRETE SUITABLE FOR H2O LOADING.
- METAL STEPS: CAST IRON ASPHALT COATED SIMILAR TO "NEENAH FOUNDRY CO. NO. R-1981-1" IN ACCORDANCE WITH OSHA REGULATIONS.
- STEPS SHALL BE PROVIDED WHEN DEPTH EXCEEDS 3'-6".
- BACKFILL WITH EXCAVATED MATERIALS FREE FROM CINDERS AND RUBBLE TO ROUGH GRADE.
- ALL MATERIAL AND CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS.
- FOUNDATION CONCRETE SHALL BE CLASS "C".
- ALL OTHER SHALL BE CLASS "B".
- SET FRAME IN A FULL BED OF STIFF CEMENT MORTAR.



STORM DRAIN INLET

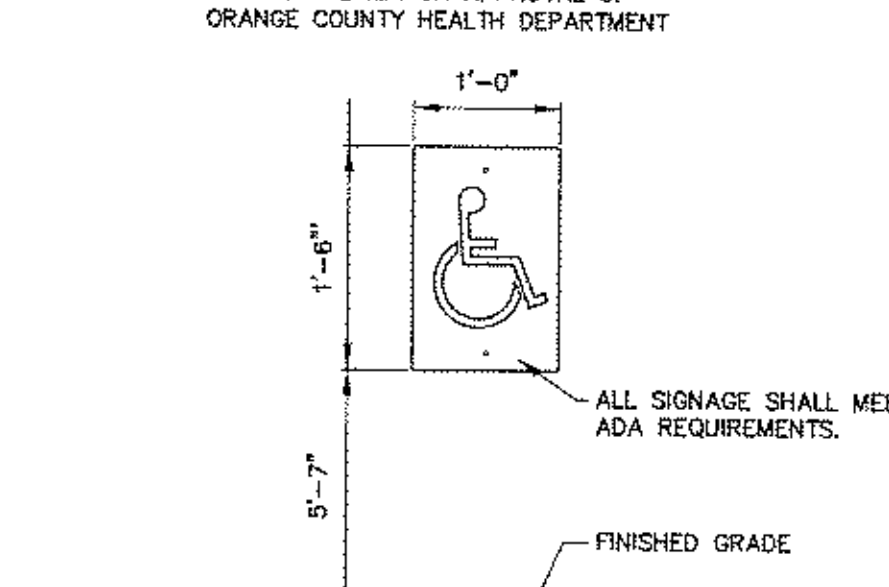
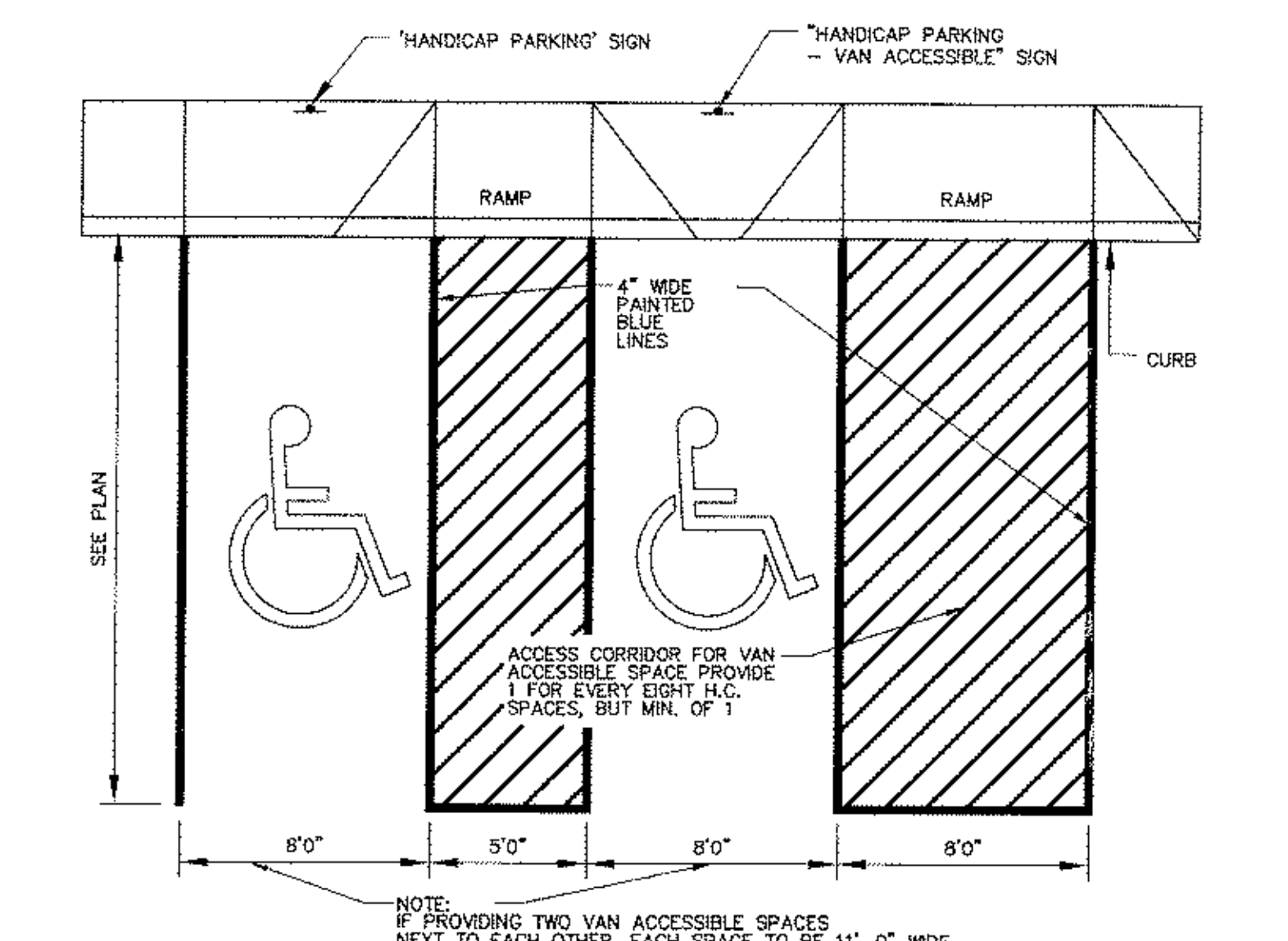
SCALE: NTS

NOT FOR REVIEW OR APPROVAL OF ORANGE COUNTY HEALTH DEPARTMENT

CONCRETE CURB

SCALE: 1" = 1'-0"

NOT FOR REVIEW OR APPROVAL OF ORANGE COUNTY HEALTH DEPARTMENT



BUILDING MOUNTED HANDICAP PARKING SIGN

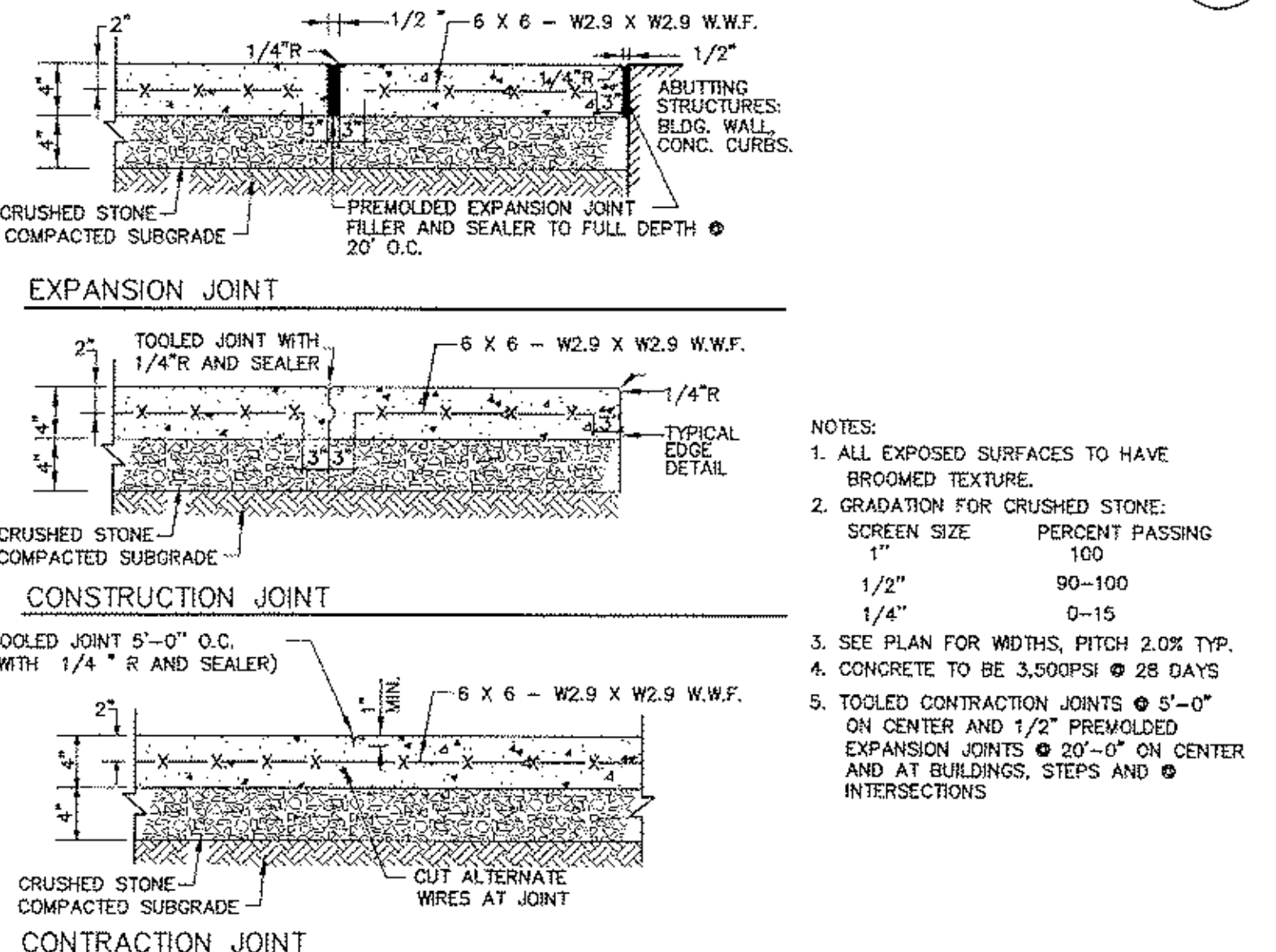
SCALE: NTS

NOT FOR REVIEW OR APPROVAL OF ORANGE COUNTY HEALTH DEPARTMENT

ADA PARKING SPACE LAYOUT

SCALE: NTS

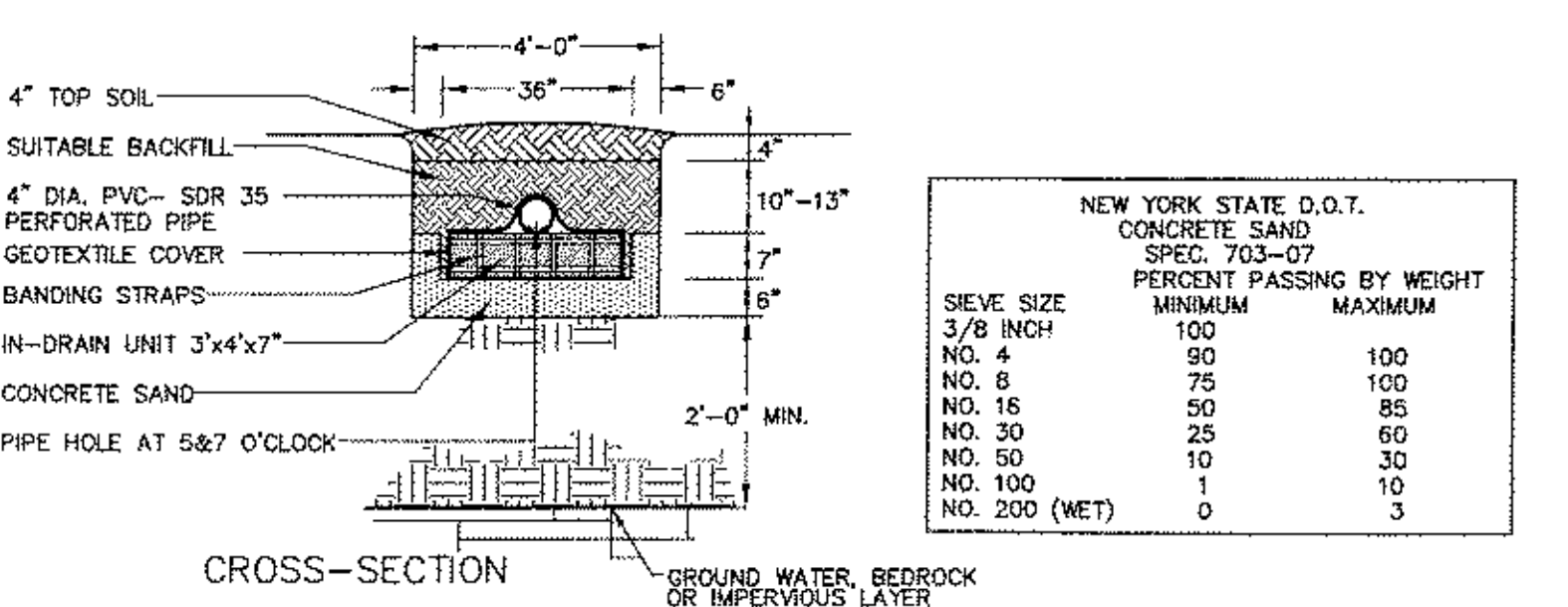
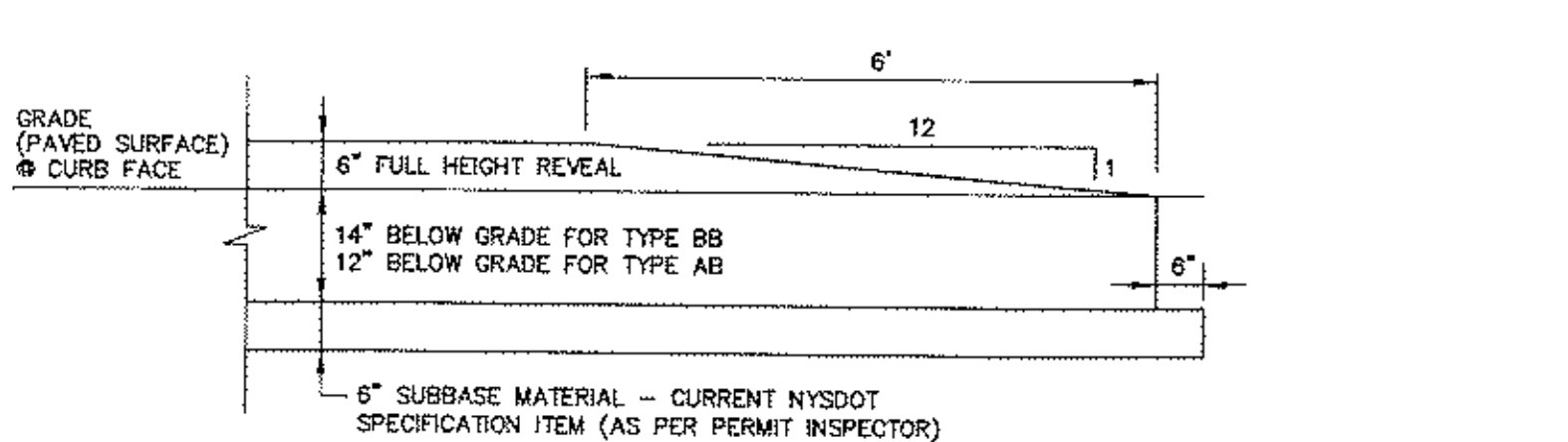
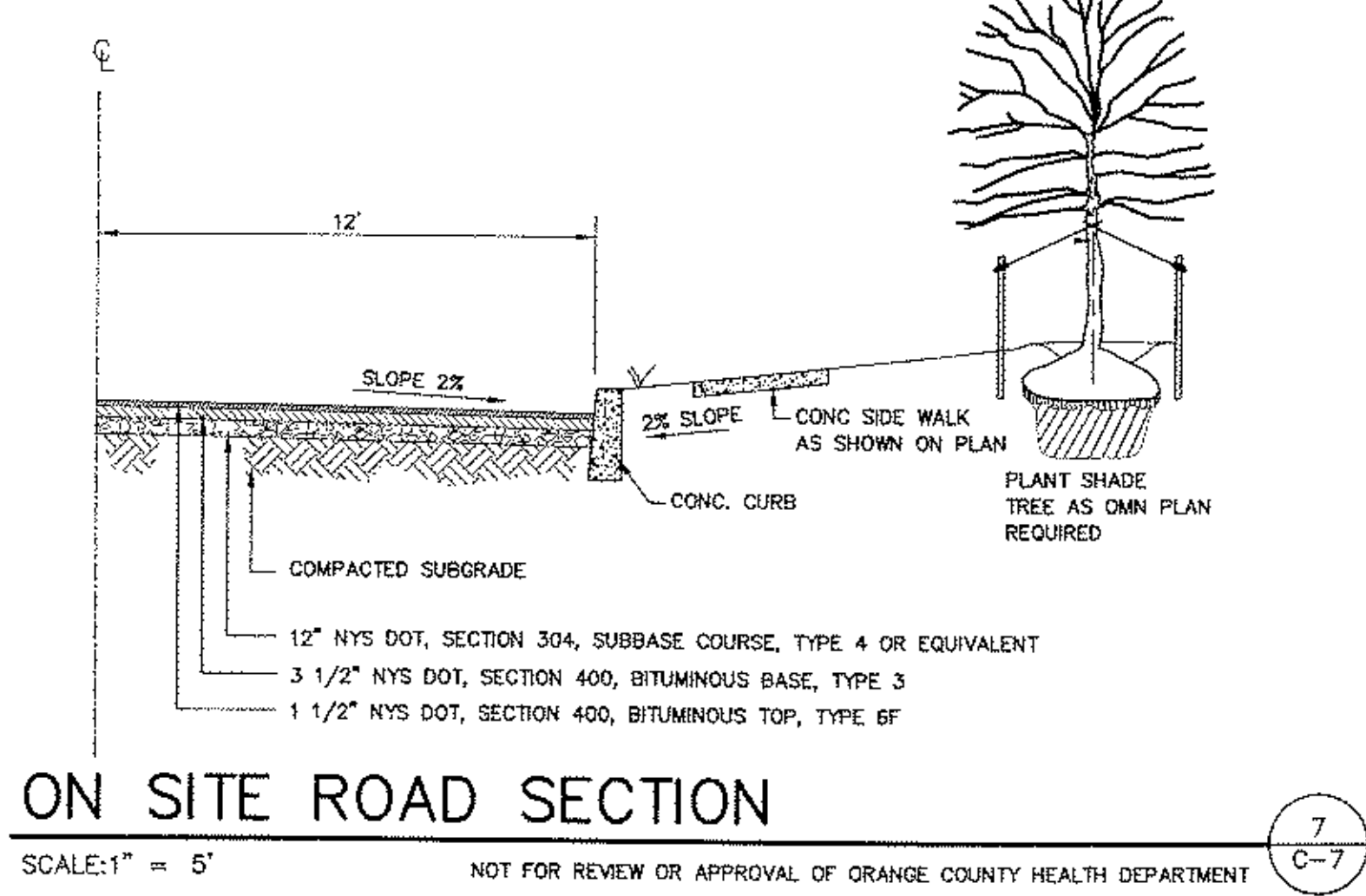
NOT FOR REVIEW OR APPROVAL OF ORANGE COUNTY HEALTH DEPARTMENT



CONCRETE WALKWAY DETAIL

SCALE: NTS

NOT FOR REVIEW OR APPROVAL OF ORANGE COUNTY HEALTH DEPARTMENT

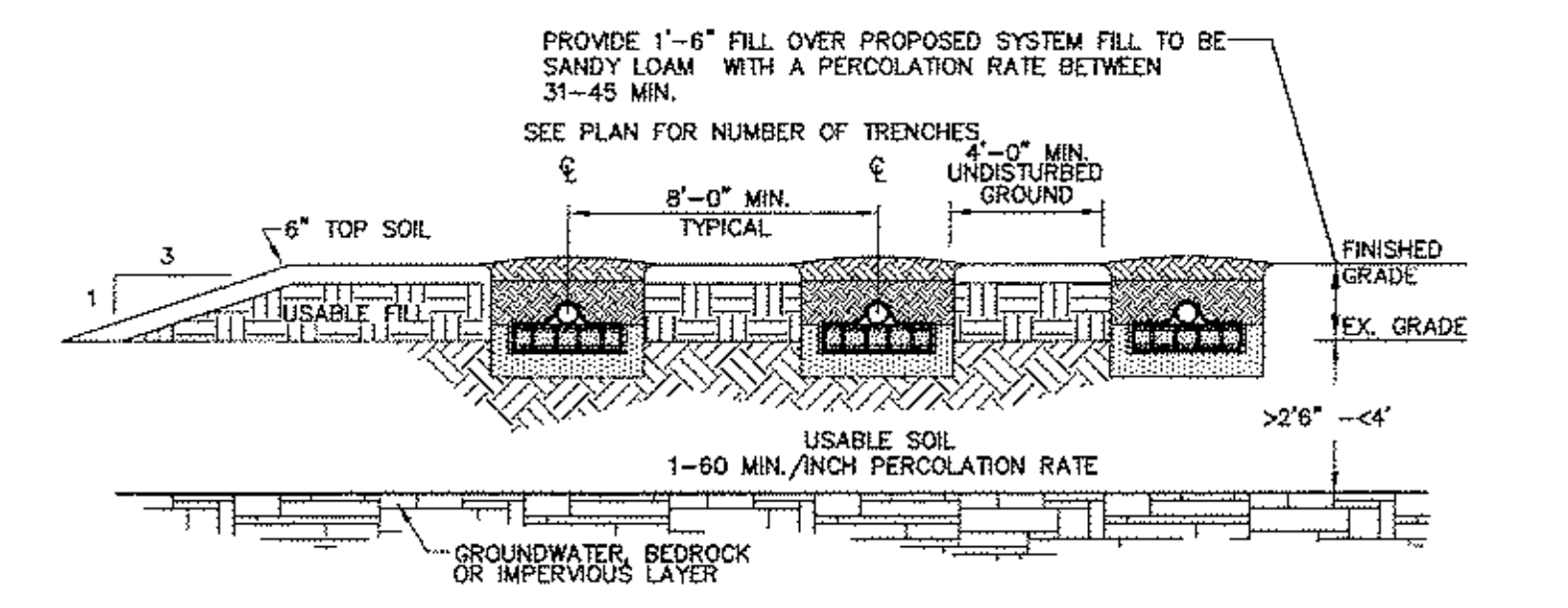


ELJEN IN-DRAINS SYSTEM DETAIL

SCALE: NTS

NOT FOR REVIEW OR APPROVAL OF ORANGE COUNTY HEALTH DEPARTMENT

NEW YORK STATE D.O.T. CONCRETE SAND SPEC. 703-07 PERCENT PASSING BY WEIGHT		
SIEVE SIZE	MINIMUM	MAXIMUM
3/8 INCH	100	100
NO. 4	90	100
NO. 8	75	100
NO. 16	50	85
NO. 30	25	60
NO. 50	10	30
NO. 100	1	10
NO. 200 (WET)	0	3



SHALLOW TRENCH ELJEN IN-DRAINS SYSTEM DETAIL

SCALE: NTS

NOT FOR REVIEW OR APPROVAL OF ORANGE COUNTY HEALTH DEPARTMENT

NEW YORK STATE D.O.T. CONCRETE SAND SPEC. 703-07 PERCENT PASSING BY WEIGHT		
SIEVE SIZE	MINIMUM	MAXIMUM
3/8 INCH	100	100
NO. 4	90	100
NO. 8	75	100
NO. 16	50	85
NO. 30	25	60
NO. 50	10	30
NO. 100	1	10
NO. 200 (WET)	0	3

NOTES:

- DO NOT INSTALL TRENCHES IN WET SOIL.
- INSTALL TRENCH PARALLEL TO CONTOURS.
- INSTALL TRENCHES AS SHALLOW AS POSSIBLE WHICH MEET ABOVE NOTED DEPTHS.
- RAKE SIDES AND BOTTOM OF TRENCH PRIOR TO PLACING SAND, ENDS OF ALL DISTRIBUTION PIPES MUST BE CAPPED.
- BOTTOM OF ALL TRENCHES SHALL NOT BE ABOVE ORIGINAL USABLE SOIL AND TRENCHES SHOULD BE AT LEAST 6" BELOW ORIGINAL GRADE.
- USABLE FILL SHOULD HAVE A PERCOLATION RATE SIMILAR TO BUT NOT FASTER THAN THE USABLE SOIL PERCOLATION RATE.
- MAXIMUM DEPTH OF USABLE FILL PLUS SIX (6) INCHES OF TOPSOIL SHALL NOT EXCEED 24". ON SLOPED SITES, A DIVERSION DITCH SHALL BE CONSTRUCTED UPHILL FROM THE FILL TO PREVENT SURFACE RUNOFF FROM ENTERING THE FILL.
- FILL SHALL BE EXTENDED AT LEAST TEN (10) FEET BEYOND ENDS OF TRENCHES BEFORE STARTING 1:3 EDGES OF FILL.

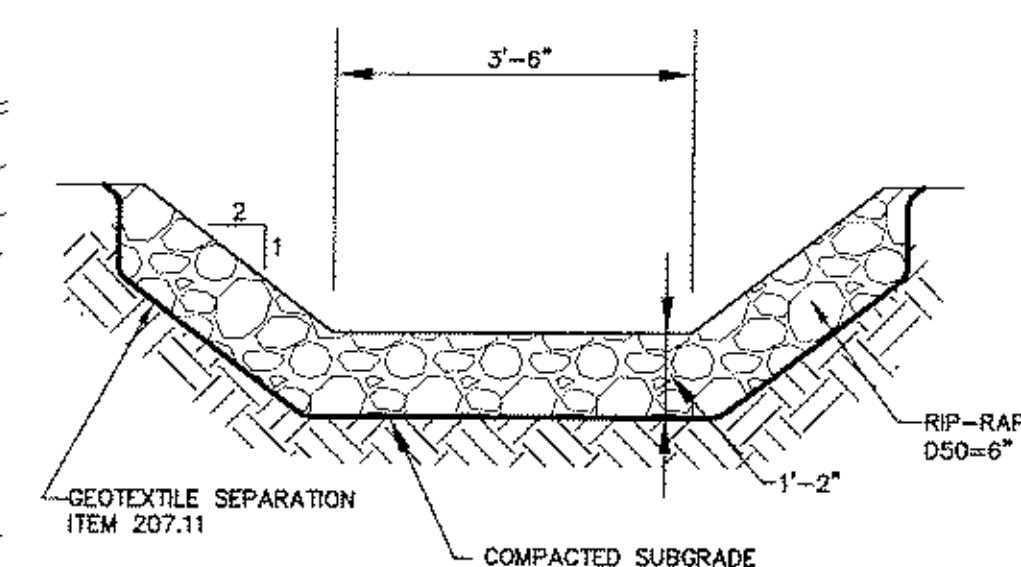
NO.	DATE	REVISION	BY	CK.
F	10/9/08	SUBMITTED O.C.H.D.	BJC	M.S.
E	9/5/08	SUBMITTED O.C.H.D.	BJC	M.S.
D	1/29/07	REVISED PER NYSDOT COMMENTS	BJC	M.S.
C	11/1/06	REVISED TITLE BLOCK	BGC	M.S.
B	4/19/06	SUBMITTED FOR PLANNING BOARD REVIEW	BJC	M.S.
A	2/2/06	SUBMITTED FOR PLANNING BOARD REVIEW	BJC	M.S.

MICHAEL J. SANDOR PE NY PROFESSIONAL ENGINEER NO. 60445	DRAWN BY: B. CHRISTIE DEPT. CK. M. SANDOR DEP. APPR. COORD. CK. P.M. APPR. CLIENT APPR.	MJS ENGINEERING & LAND SURVEYING, PC 261 Greenwich Ave Goshen, NY 10924 845-291-8650 Fax 845-291-8657
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SHEET TITLE: DETAILS	JOB NAME: DEPAULIS ROUTE 17M TOWN OF CHESTER, ORANGE COUNTY, NEW YORK
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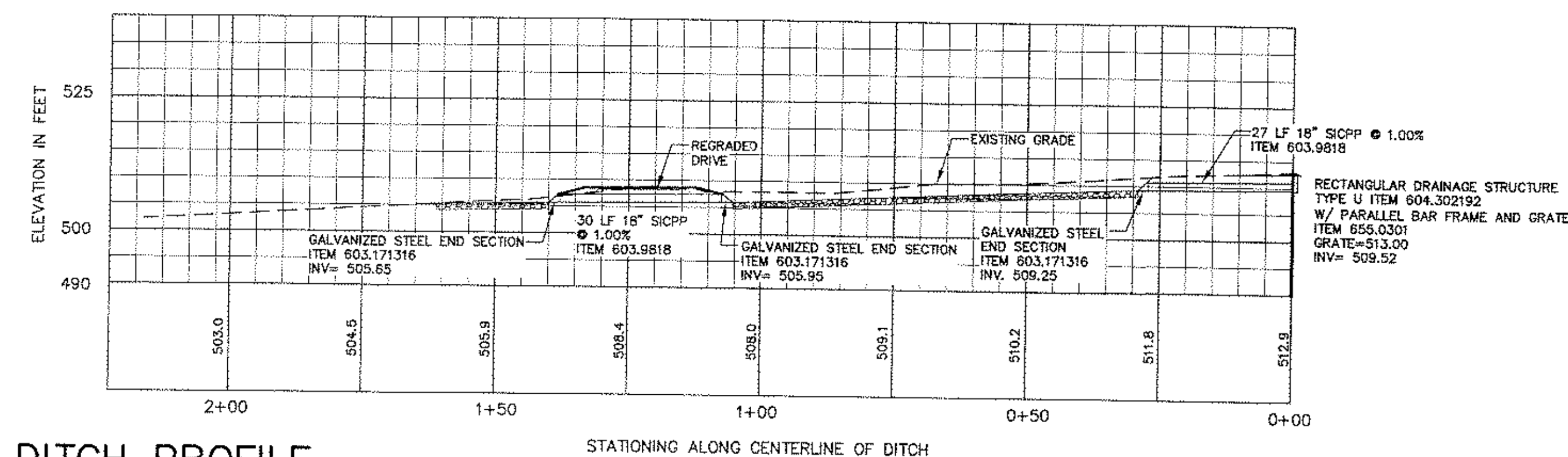
DATE: 2/2/06 JOB NO. 040156 SCALE: 1"=20'	REV. NO. F DWG. NO. C-7 SHEET 7 OF 8
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1. ALL PIPES AND PIPE ARCHES WHOSE DIMENSIONS ARE LARGER THAN THOSE LISTED BELOW SHALL HAVE 12 GA. CENTER PANELS:
PIPER - 1,370 MM, PIPE ARCHES - 1,620 X 1,100 (68 X 13), 1,520 X 1,170 (75 X 25 OR 125 X 25)
PIPER AND PIPE ARCHES WITH DIMENSIONS EQUAL TO OR SMALLER THAN THOSE LISTED ABOVE, WHICH ARE ALLOWED TO BE ASSEMBLED FROM 3 PIECES, MAY HAVE 12 GA. SIDES AND 10 GA. CENTER PANELS. THE SIDES OF THE CENTER PANELS AND THE BODIES, THE WIDTH OF THE CENTER PANEL SHALL BE GREATER THAN 20% OF THE PIPE PERIPHERY. MULTIPLE PANEL BODIES SHALL HAVE LAP JOINTS. MULTIPLE PANEL BODIES SHALL BE JOINTED TOGETHER BY WELDS OR MECHANICALLY JOINED BY 10 MM DIAMETER GALVANIZED RIVETS OR BOLTS.
2. REINFORCED EDGES SHALL BE SUPPLEMENTED WITH STIFFENER ANGLES FOR THE FOLLOWING DIMENSIONS:
PIPES - 1,500 MM OR LARGER, PIPE ARCHES - 1,850 X 1,320 (68 X 13), 1,850 X 1,400 (75 X 25 OR 125 X 25)
THE ANGLES SHALL BE 6.25 mm BASE METAL, AS THE END SECTION AND SHALL BE 20 X 2 X 1,500 (8 X 1/2 X 1,500) FOR 800 MM DIAMETERS AND 62.5 X 62.5 X 625 MM FOR DIAMETERS 1,850 MM AND LARGER. THE ANGLES SHALL BE ATTACHED BY 10 MM DIAMETER GALVANIZED RIVETS OR BOLTS. THE EDGES SHALL BE EQUAL TO OR LARGER THAN 1,950 X 1,320 (68 X 13), 1,850 X 1,400 (75 X 25 OR 125 X 25) SHALL HAVE ANGLE REINFORCEMENT PLACED AT THE CENTER OF THE END SECTION.
3. A TOE PLATE EXTENSION SHALL BE SUPPLIED WHEN SPECIFIED IN DRAINAGE STRUCTURE TABLE. THE TOE PLATE EXTENSION SHALL BE THE SAME BASE METAL AS THE END SECTION AND SHALL BE FASTENED TO THE END SECTION WITH 10 MM DIAMETER BOLTS. THE CONNECTION DETAILS SHOWN IN PLAN VIEW FOR PIPE AND PIPE ARCH ARE TO BE USED FOR THE TOE PLATE PIPE AND PIPE ARCH SIZES LISTED IN THE TABLE OF DIMENSIONS.

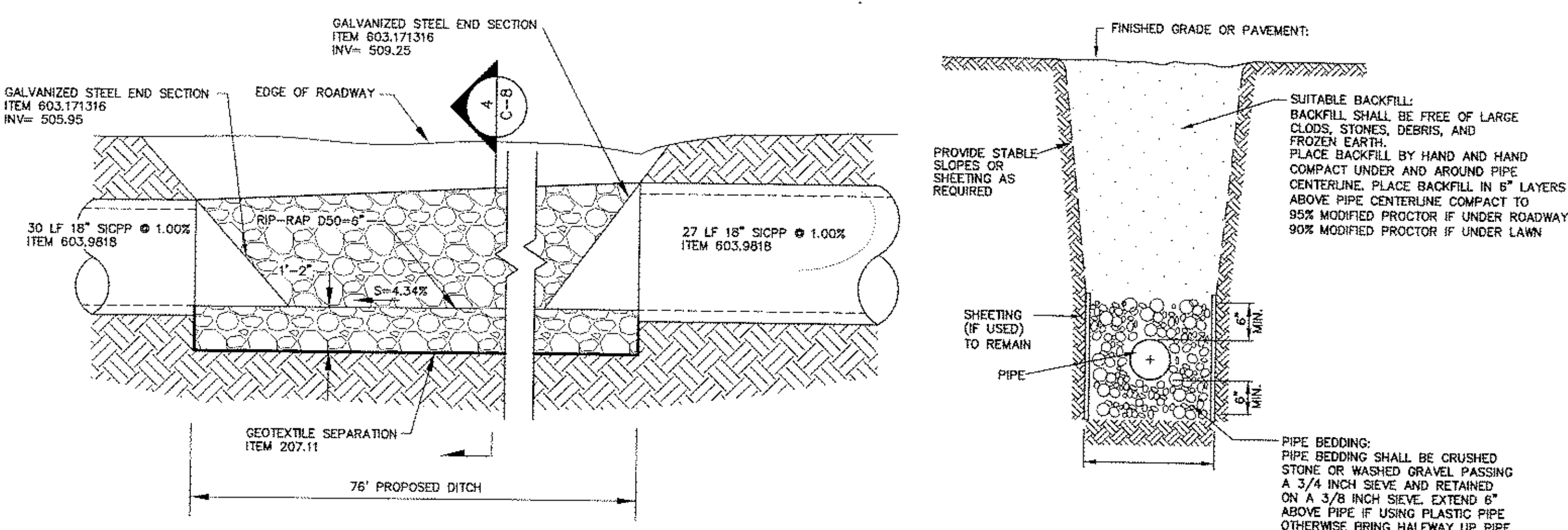


SCALE 3/8" = 1'-0"

SCALE: 1" = 20'



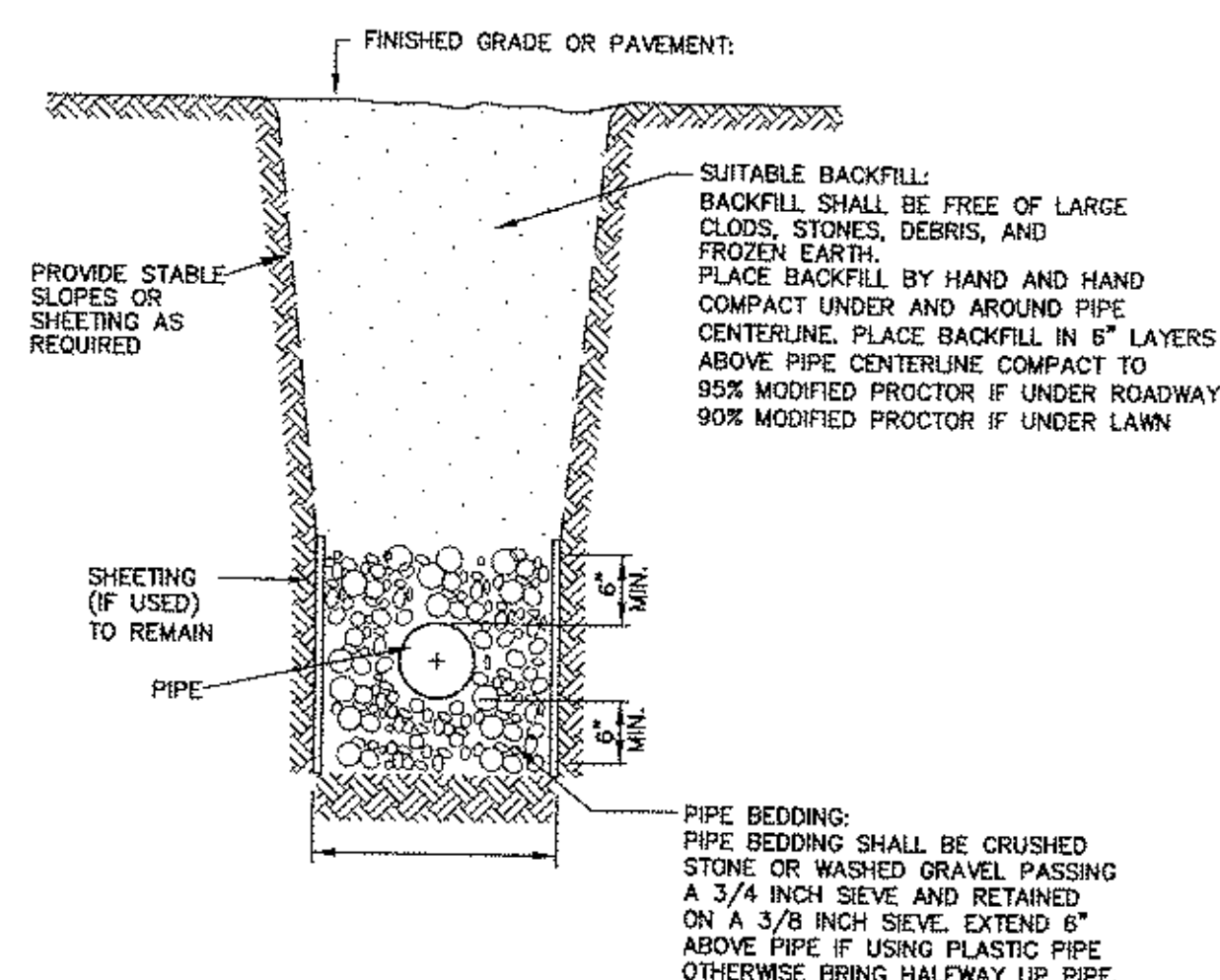
SCALE: 1" = 20' HORIZONTAL
1" = 4' VERTICAL



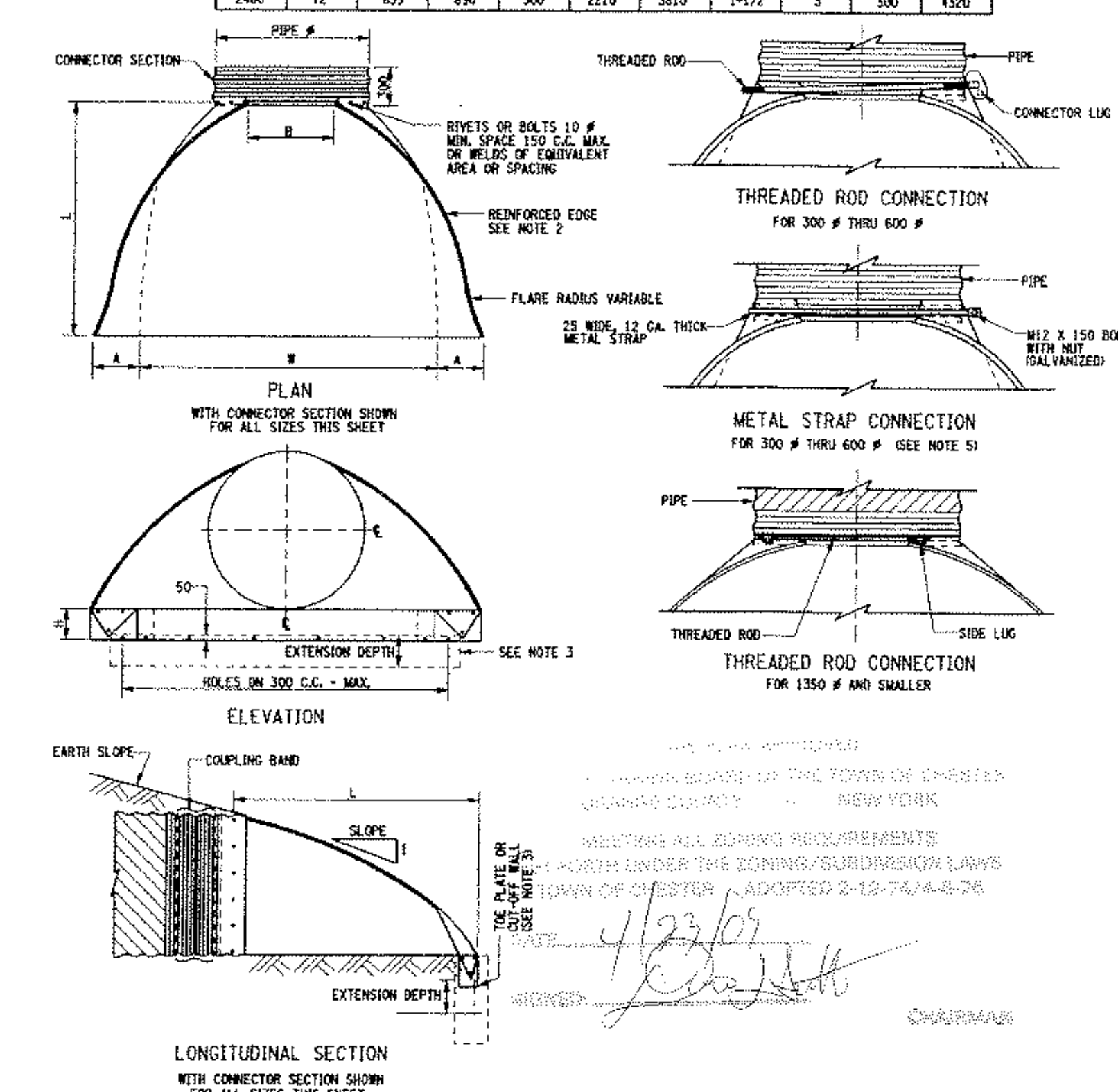
SCALE NTS

C	3/6/08	REVISED PER NYSDOT COMMENTS	BGC	M.S.	
B	1/29/07	REVISED PER NYSDOT COMMENTS	BJC	M.S.	
A	11/30/06	SUBMITTED FOR NYSDOT REVIEW	BGC	M.S.	
NO.	DATE	REVISION	BY	CK.	

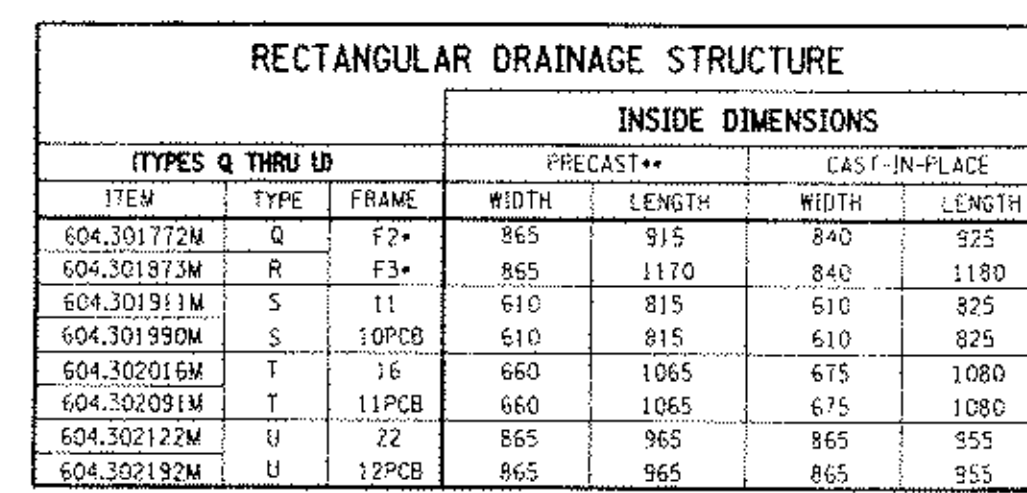
SCALE: NTS



SCALE NTS



SCALE NTS



**PRECAST TYPES S, T AND U REQUIRE THE FRAME TO BE CAST INTO A SEPARATE COLLAR. THE FRAME COLLAR SHALL HAVE INSIDE DIMENSIONS AS SHOWN FOR "CAST-IN-PLACE" IN THIS TABLE, OUTSIDE DIMENSIONS TO MATCH THE PRECAST RISER, AND BE 200 mm HIGH MIN.

SECTION A-A

RECTANGULAR
DRAINAGE STRUCTURE
TYPE S, T AND U

TABLE, OUTSIDE DIMENSIONS TO MATCH THE PRECAST RISER, AND BE 200 mm HIGH MIN.		RECTANGULAR DRAINAGE STRUCTURE TYPE S, T AND U	
CATCH BASIN DETAIL (NYSDOT STANDARD SHEET M604-BR1)		5 C-8	
SCALE NTS		THIS PLAN INCOMPLETE AND INVALID UNLESS ACCOMPANIED BY EACH OF THE 8 SHEETS NOT FOR REVIEW OR APPROVAL OF ORANGE COUNTY HEALTH DEPARTMENT	
JOB NAME: DEPAULIS ROUTE 17M TOWN OF CHESTER, ORANGE COUNTY, NEW YORK	DATE: 11/30/06	REV. NO. C	
	JOB NO. 040156	DWG. NO.	
	SCALE: AS SHOWN	C-8	
		SHEET 8 OF 8	