

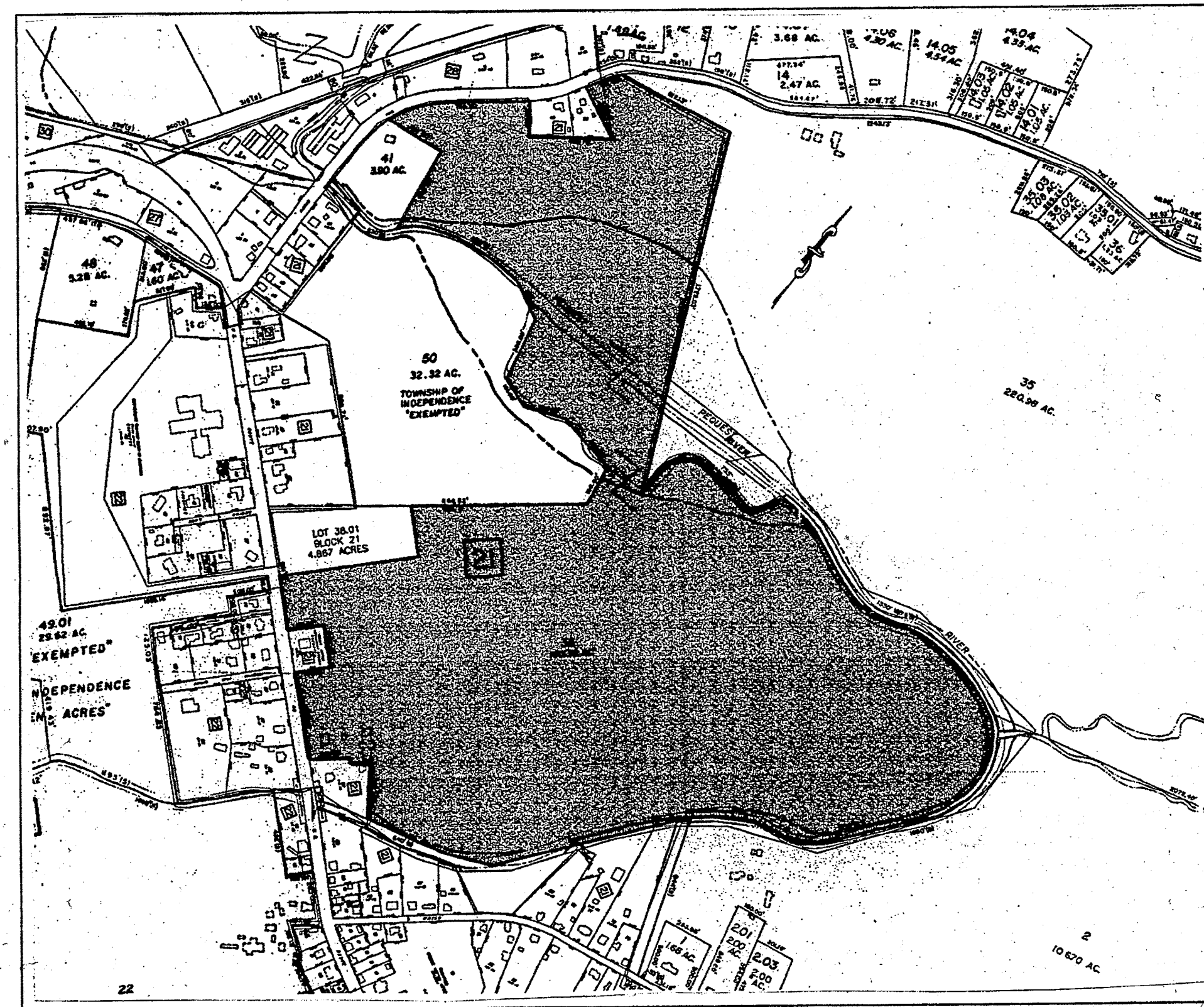
PROPERTY OWNERS WITHIN 200 FT

BLOCK	LOT	PROPERTY OWNER	PROPERTY LOCATION
17	13	VIENNA METHODIST CHURCH C/O GEORGE ULMER PO BOX 21 VIENNA, NJ 07880	232 ROUTE 46
17	21	GRAVAL INC PO BOX 68 VIENNA, NJ 07880	16 WATER ST
17	22	SIEBANS, LARRY T 25 TOWNSHIP RD GREAT MEADOWS, NJ 07838	18 WATER ST
17	23	FRANKENFIELD, DOROTHY I & ROBERT PO BOX 86 VIENNA, NJ 07880	WATER ST
21	2	BADJINI, LOUIS J & ANNE M PO BOX 427 VIENNA, NJ 07880	31A WATER ST
21	35	MILLER, WILLIAM III & KAREN 36 ALPHANO RD GREAT MEADOWS, NJ 07838	36 ALPHANO RD
21	39	WYLIE, BRUCE P & NANCY PO BOX 251 GREAT MEADOWS, NJ 07838	26 ALPHANO RD
21	40	HAAR, DAVID & PATRICIA 24 ALPHANO RD GREAT MEADOWS, NJ 07838	24 ALPHANO RD
21	41	CHMIELEWSKI, MARK 12 ALPHANO RD GREAT MEADOWS, NJ 07838	12 ALPHANO RD
21	50	TOWNSHIP OF INDEPENDENCE PO BOX 164 GREAT MEADOWS, NJ 07838	286-B ROUTE 46
21	55	RAFALKO, PAMELA S & RICHARD 278 ROUTE 46 GREAT MEADOWS, NJ 07838	R278 ROUTE 46
21	56	VIENNA UNITED METHODIST CHURCH C/O GEORGE ULMER PO BOX 21 VIENNA, NJ 07880	266 ROUTE 46
21	57	KOLBA, NANCY A 258 ROUTE 46 GREAT MEADOWS, NJ 07838	258 ROUTE 46
21	65	BRANDT, JASMINE & WALTER J PO BOX 425 VIENNA, NJ 07880	3 WATER ST
21	67	HAWKINS, RICHARD L & PATRICIA A PO BOX 384 VIENNA, NJ 07880	7 WATER ST
21	68	HAWKINS, RICHARD L & PATRICIA A PO BOX 384 VIENNA, NJ 07880	11 WATER ST
21	69	GOMEZ, GAIL PO BOX 413 VIENNA, NJ 07880	19 WATER ST
21	17	NOLAN, RICHARD D & KATHLEEN M PO BOX 7 VIENNA, NJ 07880	23 WATER ST
21	72	ELY, RAYMOND E PO BOX 412, 25 WATER ST VIENNA, NJ 07880	25 WATER ST
22	25	MERKEL, RUDOLPH V & CAROL A 259 ROUTE 46 GREAT MEADOWS, NJ 07838	259 ROUTE 46
22	27	RJ36, LLC 88 CEMETERY RD PO BOX 95 VIENNA, NJ 07880	261 ROUTE 46
22	29	PACHOLER, KATHRYN A 265 US HIGHWAY 46 GREAT MEADOWS, NJ 07838	265 ROUTE 46
22	30	KOWALICK, BRUCE PO BOX 141 VIENNA, NJ 07880	267 ROUTE 46
22	35	GRIECO, PATRICIA A & JEAN M 269 ROUTE 46 GREAT MEADOWS, NJ 07838	259 ROUTE 46
22	36	VAN DOREN, WILLIAM & JENNIFER 271 ROUTE 46 GREAT MEADOWS, NJ 07838	271 ROUTE 46
22	37	SARGENT, ROY S SR & JEAN M PO BOX 95 VIENNA, NJ 07880	275 ROUTE 46
22	43	FIRST HOPE BANK PO BOX 296 HOPE, NJ 07844	277 ROUTE 46
22	45	GREAT MEADOWS REGIONAL BD OF PO BOX 74 GREAT MEADOWS, NJ 07838	281 ROUTE 46
22	49.01	TOWNSHIP OF INDEPENDENCE PO BOX 164 GREAT MEADOWS, NJ 07838	CEMETERY RD / EAST REAR PAVILION/REC AREA
28	8	GEROLA, LUCILLE L 17 ALPHANO RD GREAT MEADOWS, NJ 07838	17 ALPHANO RD
28	9	DEITER, JOHN J & SHERYL L 23 ALPHANO RD GREAT MEADOWS, NJ 07838	23 ALPHANO RD
28	9.01	GROVER, JAMES E & JACQUELINE E 25 ALPHANO RD GREAT MEADOWS, NJ 07838	25 ALPHANO RD
28	11	MATTHEW GUBELMANN & FLORENCE 29 ALPHANO RD GREAT MEADOWS, NJ 07838	S NOBLE 29 ALPHANO RD
28	12	MAYHAN, FLORENCE 31 ALPHANO RD GREAT MEADOWS, NJ 07838	31 ALPHANO RD

AMENDED PRELIMINARY MAJOR SUBDIVISION GREAT MEADOWS I

LOT 38 BLOCK 21

TOWNSHIP OF INDEPENDENCE, WARREN COUNTY, NJ



UTILITY COMPANIES:

- GPU ENERGY
ATTN: CORPORATE SECRETARY
GENERAL HEADQUARTERS
MADISON AVE & PUNCH BOWL RD
MORRISTOWN, NJ 07960
- VERIZON
ATTN: CORPORATE SECRETARY
540 BROAD ST
NEWARK, NJ 07101
- INDEPENDENCE MUA
ATTN: CHAIRPERSON
INDEPENDENCE MUNICIPAL BUILDING
PO BOX 164
GREAT MEADOWS, NJ 07838
- COMCAST CABLE
ATTN: GENERAL MANAGER
RD 2 BOX 39
PORT MURRAY, NJ 07865
- WARREN COUNTY PLANNING BOARD
WAYNE DUMAONT JR ADMIN BUILDING
165 COUNTY ROUTE 519 SOUTH
BELVIDERE, NJ 07823
- ELIZABETHTOWN GAS CO.
ATTN: CORPORATE SECRETARY
1 ELIZABETHTOWN PLAZA
UNION, NJ 07083
- UNITED TELEPHONE
ATTN: CORPORATE SECRETARY
160 CENTER ST
CLINTON, NJ 08809
- HACKETTSTOWN MUA
ATTN: EXECUTIVE DIRECTOR
424 HURLEY DR
HACKETTSTOWN, NJ 07840
- NEW JERSEY DOT
200 STIERLI CT
MT. ARLINGTON, NJ 07856

AREA MAP
SCALE: 1"=100'

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R 4 ZONE REQUIREMENTS

	REQUIRED	EXISTING	LOT 1	LOT 2	LOT 3	LOT 4	REMAINING LOT 38
LOT AREA	4 ACRES	156.15 Ac	5.02 ACRES	7.36 ACRES	15.17 ACRES	5.31 ACRES	122.5 ACRES
MIN. LOT WIDTH AT SETBACK LINE	350 FT	> 350 FT	424.82 FT	378.05 FT	358.93 FT	432.27 FT	280.59 FT * & 457.62 FT
FRONT YARD	100 FT	N/A	100 FT	100 FT	100 FT	100 FT	100 FT
REAR YARD	75 FT	N/A	75 FT	75 FT	75 FT	75 FT	75 FT
SIDE YARD	50 FT	N/A	50 FT	50 FT	50 FT	50 FT	50 FT
BUILDING HEIGHT	35 FT	N/A	35 FT	35 FT	35 FT	35 FT	35 FT
MIN UNIT FLOOR AREA	2,000 SF	N/A	2,000 SF (min)	2,000 SF (min)	2,000 SF (min)	2,000 SF (min)	2,000 SF (min)
MAX. LOT COVERAGE	10%	0.02 %	10%	10%	10%	10%	0.1%
GROSS DENSITY (UNIT/AC)	0.25	N/A	0.25	0.25	0.25	0.25	N/A

*... DENOTES EXISTING NON-COMFORMANCE
SUBDIVISION IS IN COMPLIANCE WITH ORDINANCE SECTION 255-49B (r)

APPROVALS

PLANNING BOARD CHAIRMAN _____ DATE _____

PLANNING BOARD SECRETARY _____ DATE _____

TOWNSHIP ENGINEER _____ DATE _____

OWNER/APPLICANT

PIO COSTA ENTERPRISES
1275 BLOOMFIELD AVE
FAIRFIELD, NJ 07004

COVER SHEET
GREAT MEADOWS I
BLOCK 21 LOT 38

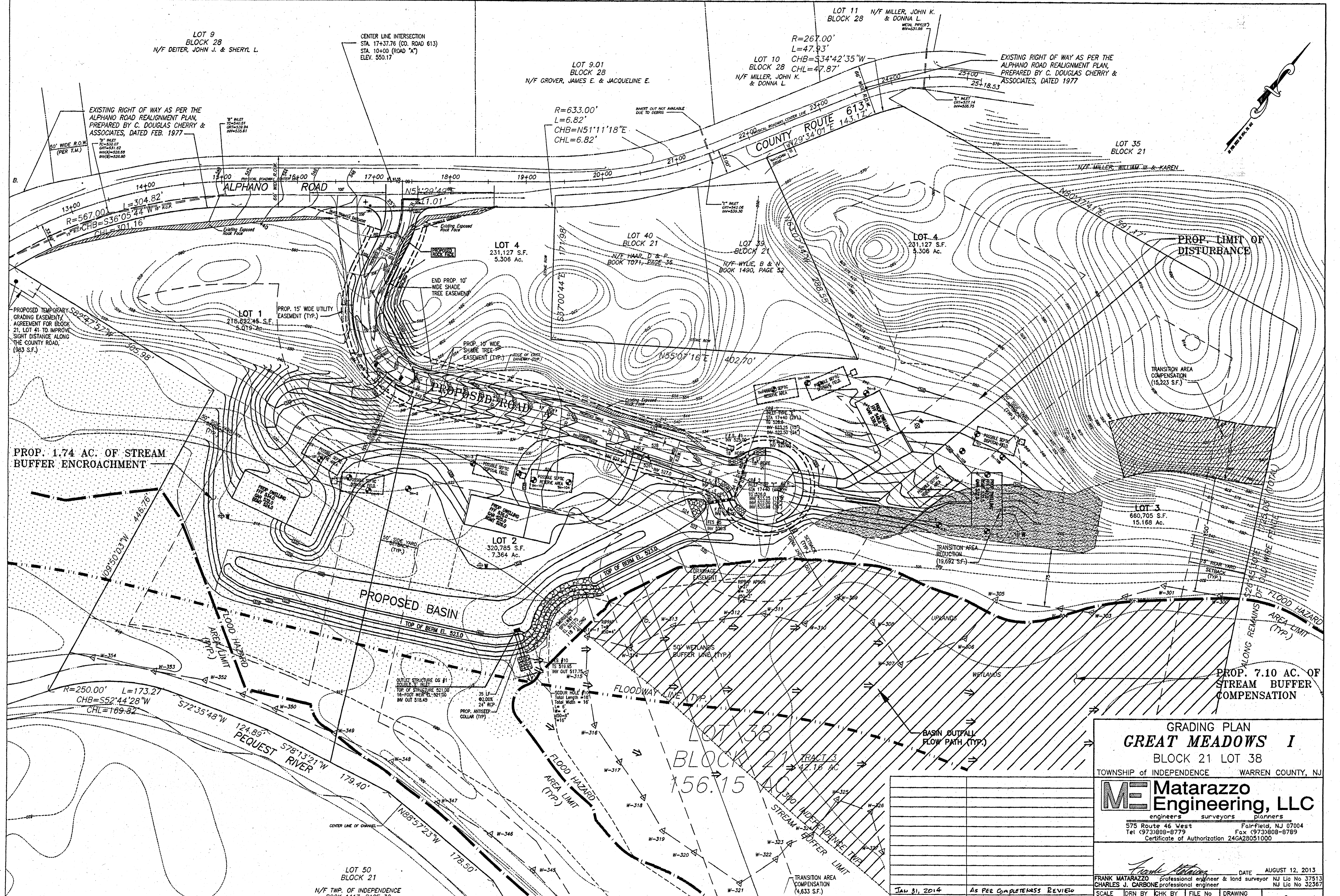
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ME Matarazzo Engineering, LLC
engineers surveyors planners

575 Route 46 West Fairfield, NJ 07004
Tel (973)808-8779 Fax (973)808-8789
Certificate of Authorization 24CA28051000

DATE AUGUST 12, 2013
FRANK MATARAZZO professional engineer & land surveyor NJ Lic No 37513
CHARLES J. CARBONE professional engineer NJ Lic No 32367

DATE	REVISION	SCALE	DRN BY	CHK BY	FILE No	DRAWING	SHT
JAN 31, 2014	AS PER COMPLETENESS REVIEW	1"= 50'	CJC	FM	111281	111281-SUB	1 OF 16



GRADING PLAN
GREAT MEADOWS I
 BLOCK 21 LOT 38
 TOWNSHIP OF INDEPENDENCE WARREN COUNTY, NJ

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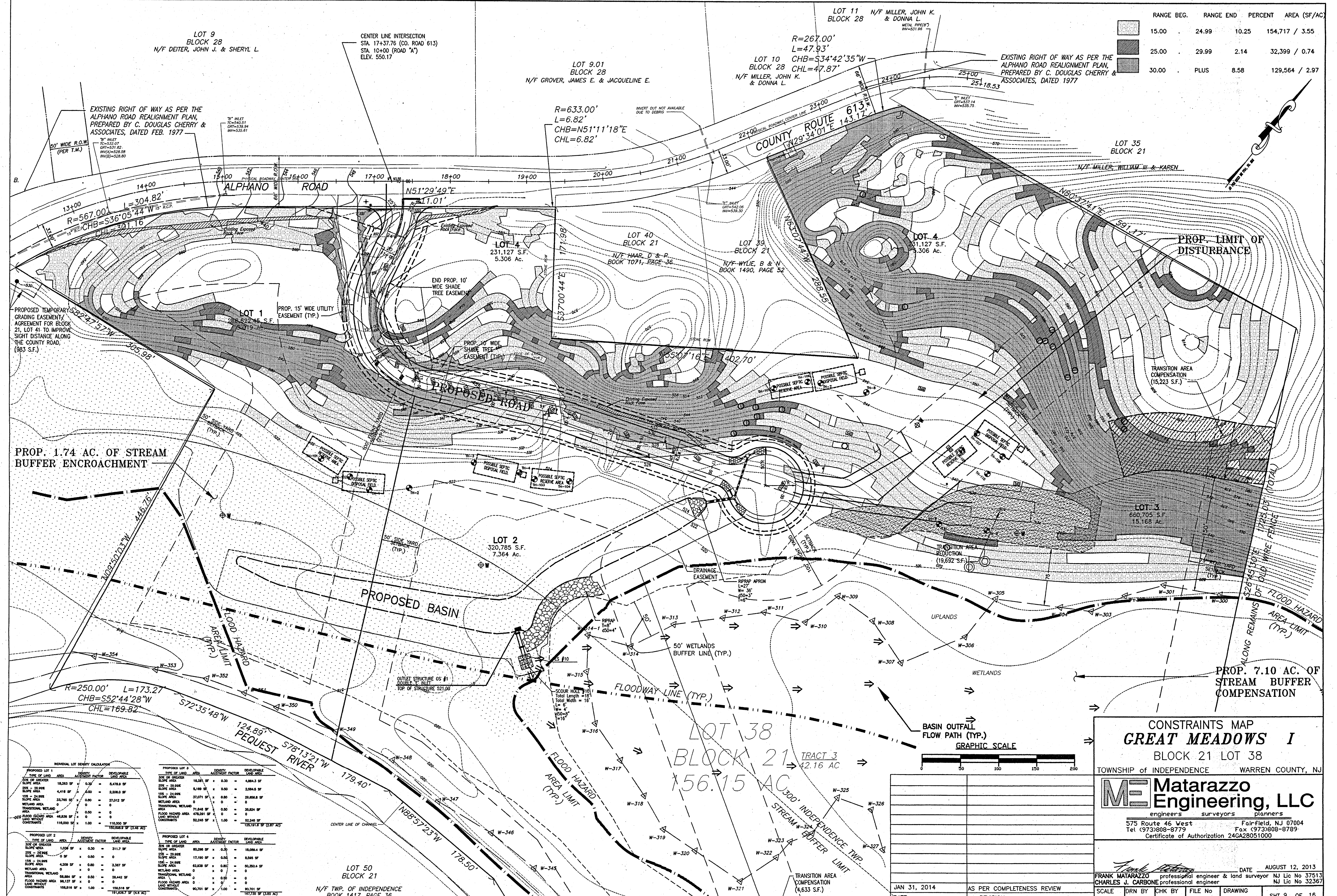
UTILITY PLAN
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 BLOCK 21 LOT 38
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RANGE BEG.	RANGE END	PERCENT	AREA (SF/AC)
15.00	24.99	10.25	154,717 / 3.55
25.00	29.99	2.14	32,399 / 0.74
30.00	PLUS	8.58	129,564 / 2.97



PROP. 1.74 AC. OF STREAM BUFFER ENCROACHMENT

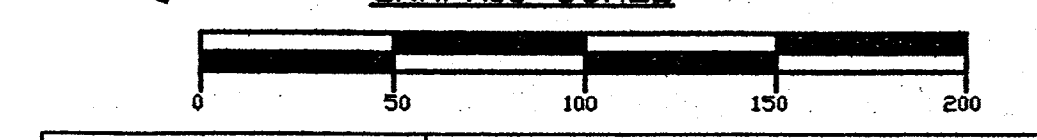
PROP. LIMIT OF DISTURBANCE

TRANSITION AREA COMPENSATION (15,223 S.F.)

PROP. 7.10 AC. OF STREAM BUFFER COMPENSATION

INDIVIDUAL LOT DENSITY CALCULATION

PROPOSED LOT #	TYPE OF LAND	AREA	DENSITY ADJUSTMENT FACTOR	DEVELOPABLE LAND AREA
PROPOSED LOT 1	SLOPE AREA	18,263 SF	0.30	5,478.9 SF
	25% - 24.99%	4,416 SF	0.50	2,208.0 SF
	15% - 24.99%	33,765 SF	0.80	27,012 SF
	WETLAND AREA	0	0	0
	TRANSITIONAL WETLAND AREA	0	0	0
	FLOOD HAZARD AREA	48,836 SF	0	0
TOTAL	101,280 SF	1.00	116,000 SF (1.14 AC)	
PROPOSED LOT 2	SLOPE AREA	1,036 SF	0.30	311.7 SF
	25% - 24.99%	0 SF	0.50	0 SF
	15% - 24.99%	4,309 SF	0.80	3,447 SF
	WETLAND AREA	0	0	0
	TRANSITIONAL WETLAND AREA	0	0	0
	FLOOD HAZARD AREA	68,864 SF	0	0
TOTAL	74,209 SF	1.00	84,204 SF (0.76 AC)	
PROPOSED LOT 3	SLOPE AREA	18,263 SF	0.30	5,478.9 SF
	25% - 24.99%	4,416 SF	0.50	2,208.0 SF
	15% - 24.99%	33,765 SF	0.80	27,012 SF
	WETLAND AREA	0	0	0
	TRANSITIONAL WETLAND AREA	0	0	0
	FLOOD HAZARD AREA	48,836 SF	0	0
TOTAL	101,280 SF	1.00	116,000 SF (1.14 AC)	
PROPOSED LOT 4	SLOPE AREA	10,206 SF	0.30	3,061.8 SF
	25% - 24.99%	17,190 SF	0.50	8,595 SF
	15% - 24.99%	62,838 SF	0.80	50,270 SF
	WETLAND AREA	0	0	0
	TRANSITIONAL WETLAND AREA	0	0	0
	FLOOD HAZARD AREA	90,701 SF	0	0
TOTAL	170,735 SF (1.55 AC)	1.00	182,936 SF (1.66 AC)	



CONSTRAINTS MAP
GREAT MEADOWS I
BLOCK 21 LOT 38

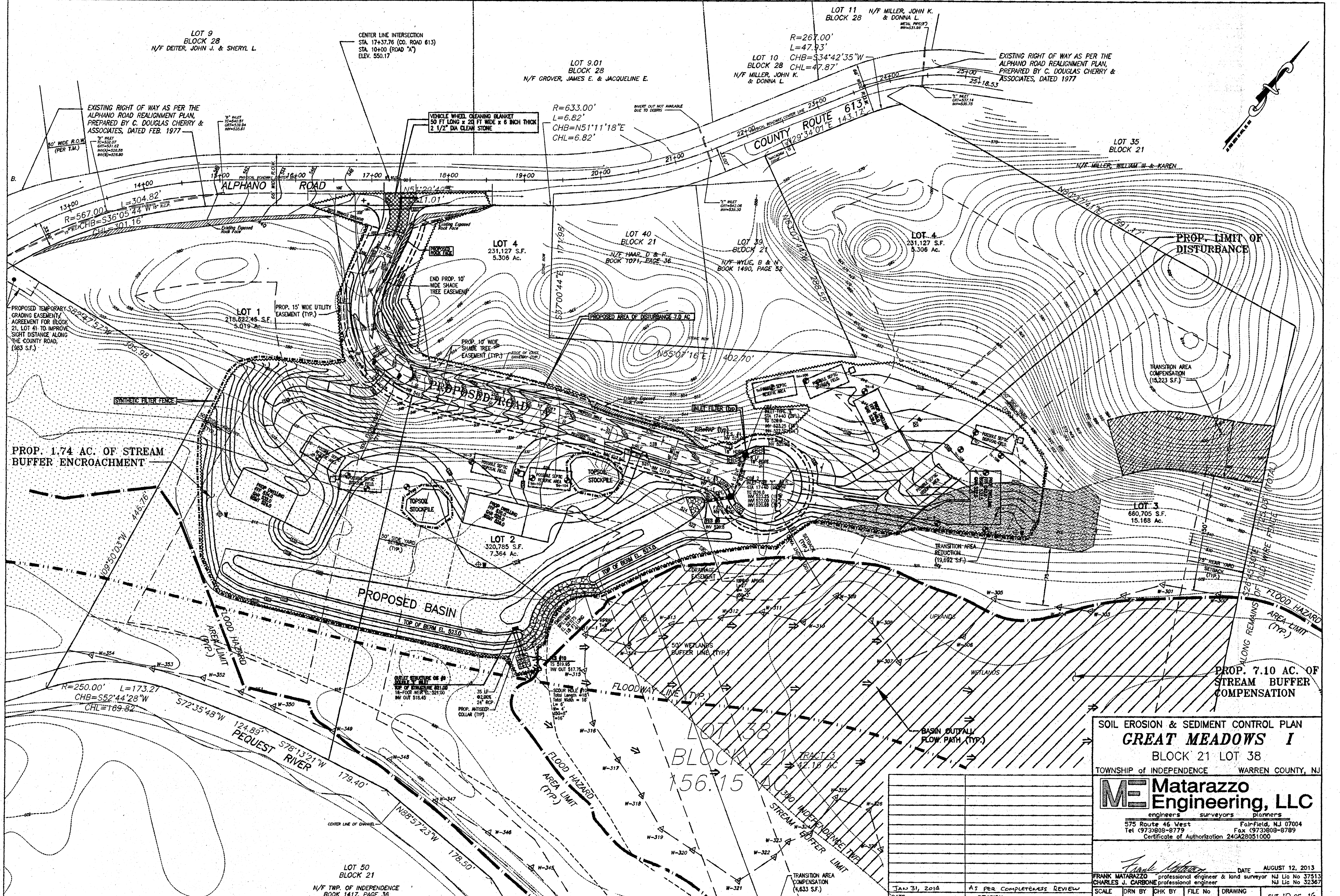
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JAN 31, 2014	AS PER COMPLETENESS REVIEW
DATE	REVISION



SOIL EROSION & SEDIMENT CONTROL PLAN
GREAT MEADOWS I
 BLOCK 21 LOT 38
 TOWNSHIP of INDEPENDENCE WARREN COUNTY, NJ

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DATE AUGUST 12, 2013

LOT 50
 BLOCK 21
 N/F TWP. OF INDEPENDENCE
 BOOK 1417, PAGE 36

LOT 38
 BLOCK 21
 156.15 AC

PROP. 7.10 AC. OF
 STREAM BUFFER
 COMPENSATION

PROP. 1.74 AC. OF STREAM
 BUFFER ENCROACHMENT

PROP. LIMIT OF
 DISTURBANCE

TRANSITION AREA
 COMPENSATION
 (15,223 S.F.)

TRANSITION AREA
 REDUCTION
 (19,692 S.F.)

LOT 3
 660,705 S.F.
 15.168 Ac.

LOT 2
 320,785 S.F.
 7.364 Ac.

LOT 1
 219,622.45 S.F.
 5.019 Ac.

LOT 4
 231,127 S.F.
 5.306 Ac.

LOT 40
 BLOCK 21
 N/F HAAR, D & P
 BOOK 1071, PAGE 36

LOT 39
 BLOCK 21
 N/F WYLIE, B & N
 BOOK 1490, PAGE 32

LOT 4
 231,127 S.F.
 5.306 Ac.

LOT 35
 BLOCK 21
 N/F MILLER, WILLIAM III & KAREN

LOT 11
 BLOCK 28
 N/F MILLER, JOHN K.
 & DONNA L.
 METAL PILES 07
 NW=03149

LOT 10
 BLOCK 28
 N/F MILLER, JOHN K.
 & DONNA L.

LOT 9.01
 BLOCK 28
 N/F GROVER, JAMES E. & JACQUELINE E.

LOT 9
 BLOCK 28
 N/F DEITER, JOHN J. & SHERYL L.

CENTER LINE INTERSECTION
 STA. 17+37.76 (CO. ROAD 613)
 STA. 10+00 (ROAD "A")
 ELEV. 550.17

EXISTING RIGHT OF WAY AS PER THE
 ALPHANO ROAD REALIGNMENT PLAN,
 PREPARED BY C. DOUGLAS CHERRY &
 ASSOCIATES, DATED FEB. 1977

EXISTING RIGHT OF WAY AS PER THE
 ALPHANO ROAD REALIGNMENT PLAN,
 PREPARED BY C. DOUGLAS CHERRY &
 ASSOCIATES, DATED 1977

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 CHL=301.16'

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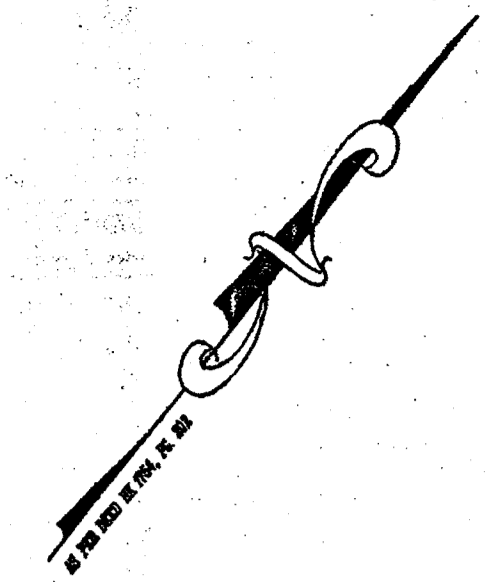
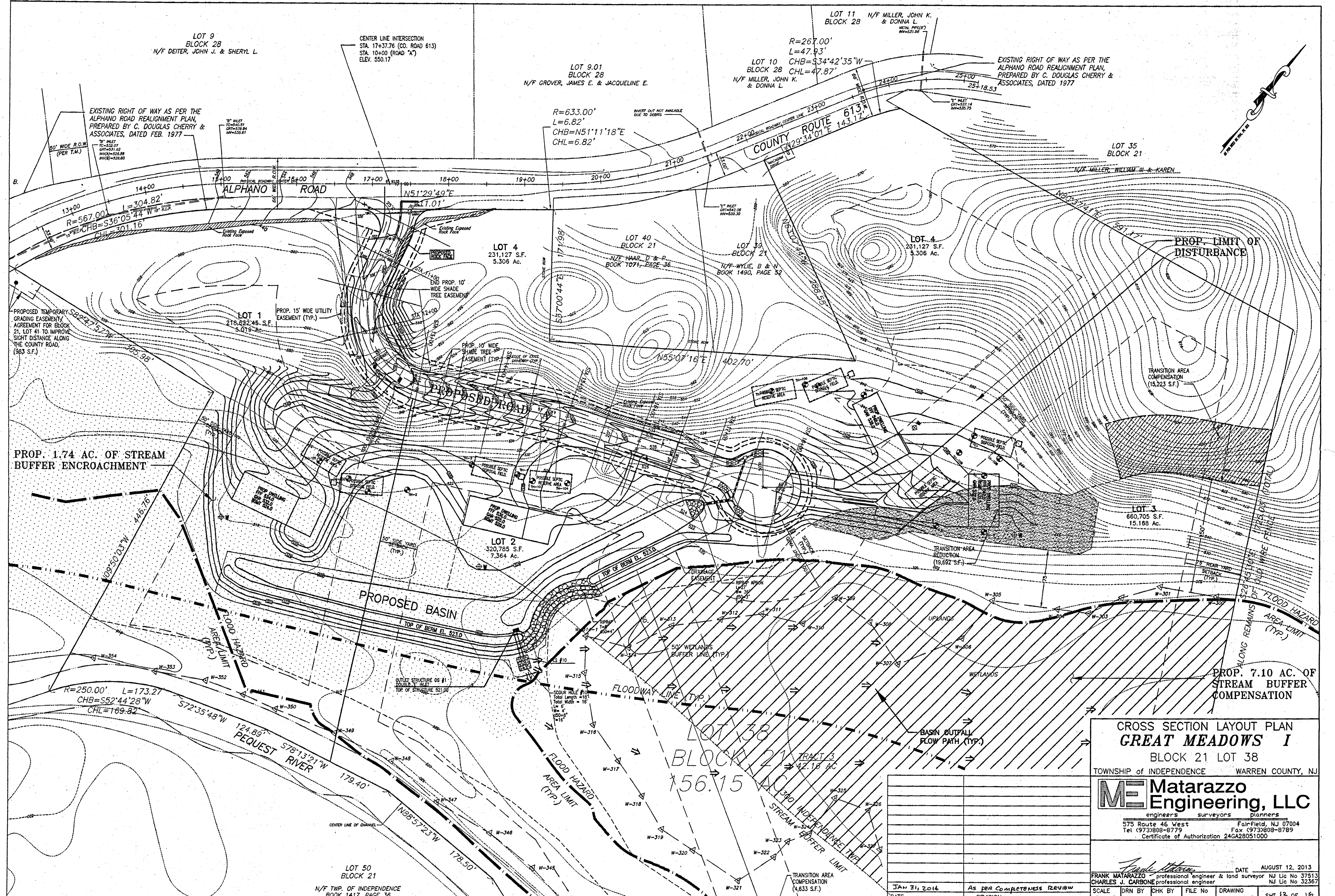
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 CHB=N51°11'



CROSS SECTION LAYOUT PLAN
GREAT MEADOWS I
 BLOCK 21 LOT 38
 TOWNSHIP OF INDEPENDENCE WARREN COUNTY, NJ

ME Matarazzo Engineering, LLC
 engineers surveyors planners
 575 Route 46 West Fairfield, NJ 07004
 Tel (973) 908-8779 Fax (973) 908-8789
 Certificate of Authorization 24GA28051000

DATE AUGUST 12, 2013
 FRANK MATARAZZO professional engineer & land surveyor NJ Lic No 37513
 CHARLES J. CARBONE professional engineer NJ Lic No 32367

JAN 31, 2014	AS PER COMPLETENESS REVIEW	FILE No 111281	DRAWING 111281-SUB	SHT 12 OF 16
BATE	REVISION	CHK BY FM		

LOT 50
 BLOCK 21
 N/F TWP. OF INDEPENDENCE
 BOOK 1417, PAGE 36

EXISTING RIGHT OF WAY AS PER THE
 ALPHANO ROAD REALIGNMENT PLAN,
 PREPARED BY C. DOUGLAS CHERRY &
 ASSOCIATES, DATED FEB. 1977

EXISTING RIGHT OF WAY AS PER THE
 ALPHANO ROAD REALIGNMENT PLAN,
 PREPARED BY C. DOUGLAS CHERRY &
 ASSOCIATES, DATED 1977

PROPOSED TEMPORARY
 GRADING EASEMENT
 AGREEMENT FOR BLOCK
 21, LOT 41 TO IMPROVE
 SIGHT DISTANCE ALONG
 THE COUNTY ROAD.
 (983 S.F.)

PROP. 1.74 AC. OF STREAM
 BUFFER ENCROACHMENT

TRANSITION AREA
 COMPENSATION
 (15,223 S.F.)

TRANSITION AREA
 REDUCTION
 (19,692 S.F.)

PROP. 7.10 AC. OF
 STREAM BUFFER
 COMPENSATION

FLOOD HAZARD
 AREA LIMIT
 (TYP.)

LOT 9.01
 BLOCK 28
 N/F GROVER, JAMES E. & JACQUELINE E.

LOT 10
 BLOCK 28
 N/F MILLER, JOHN K.
 & DONNA L.

LOT 11
 BLOCK 28
 N/F MILLER, JOHN K.
 & DONNA L.

LOT 4
 231,127 S.F.
 5.306 Ac.

LOT 40
 BLOCK 21
 N/F HAAR, D & P
 BOOK 1071, PAGE 36

LOT 39
 BLOCK 21
 N/F WYLIE, B & N
 BOOK 1490, PAGE 52

LOT 4
 231,127 S.F.
 5.306 Ac.

LOT 1
 218,622.45 S.F.
 5.019 Ac.

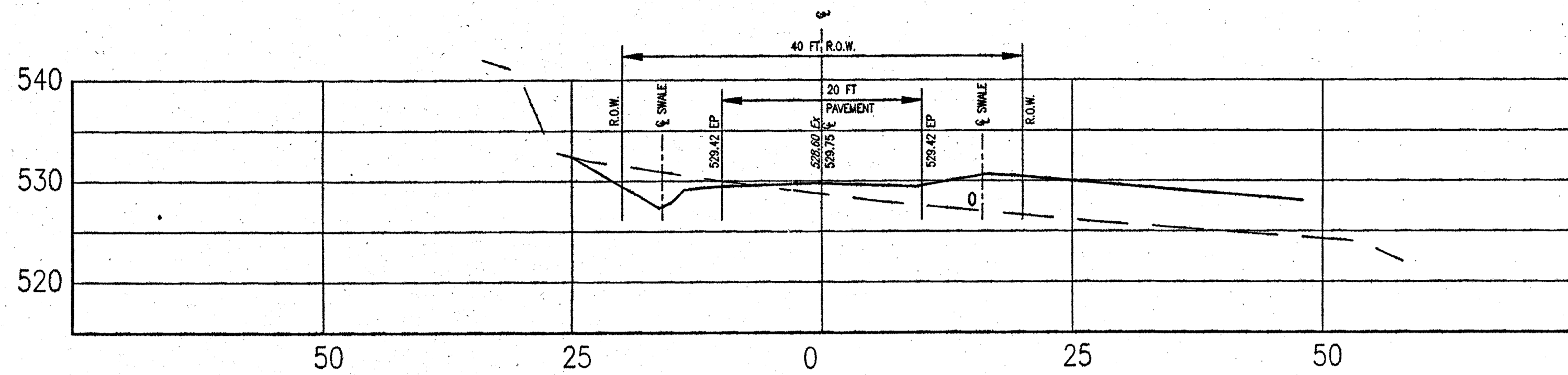
LOT 2
 320,785 S.F.
 7.364 Ac.

LOT 3
 660,705 S.F.
 15.168 Ac.

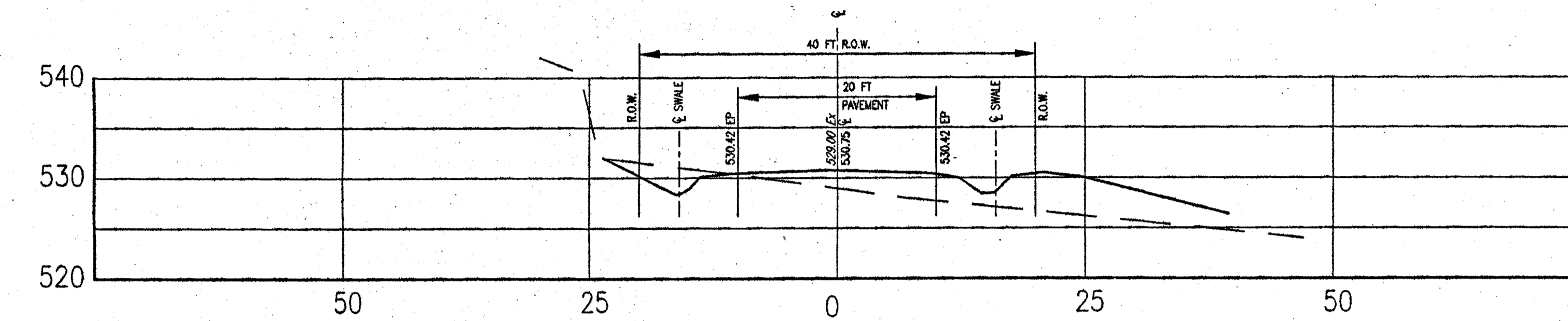
LOT 38
 BLOCK 21
 42.18 AC
 56.15 AC

TRACT 3
 42.18 AC

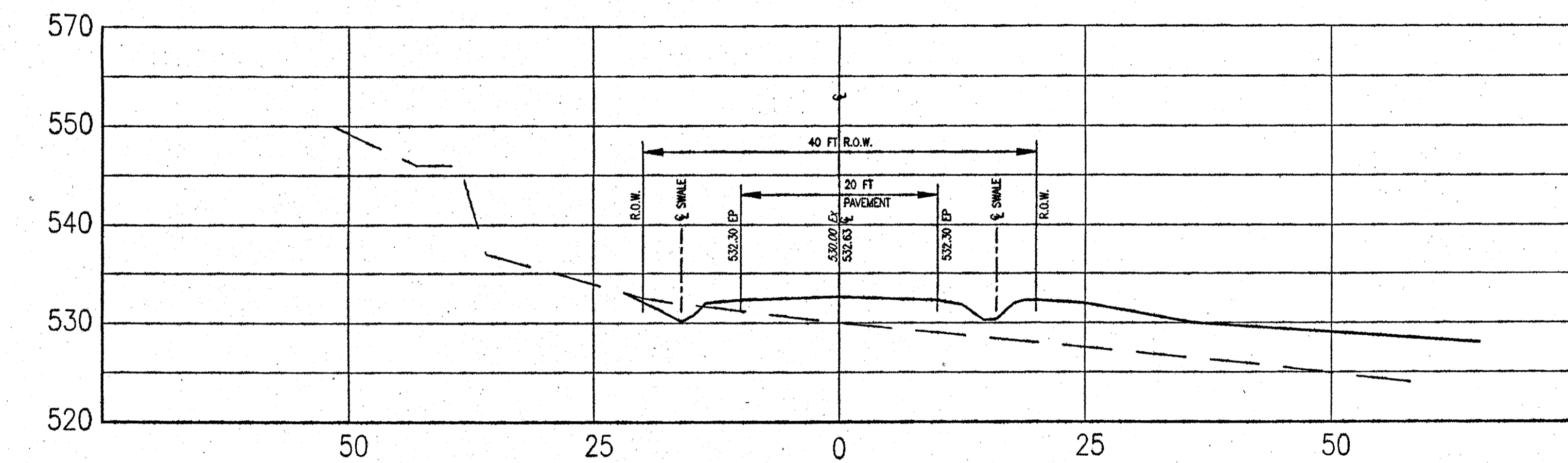
TRANSITION AREA
 COMPENSATION
 (4,633 S.F.)



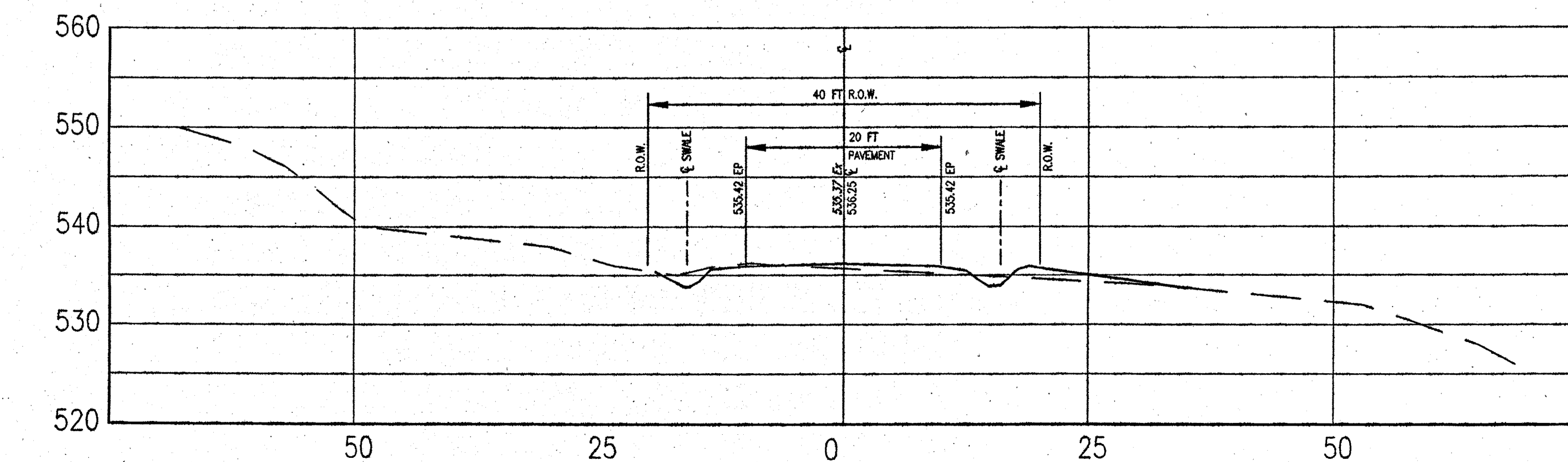
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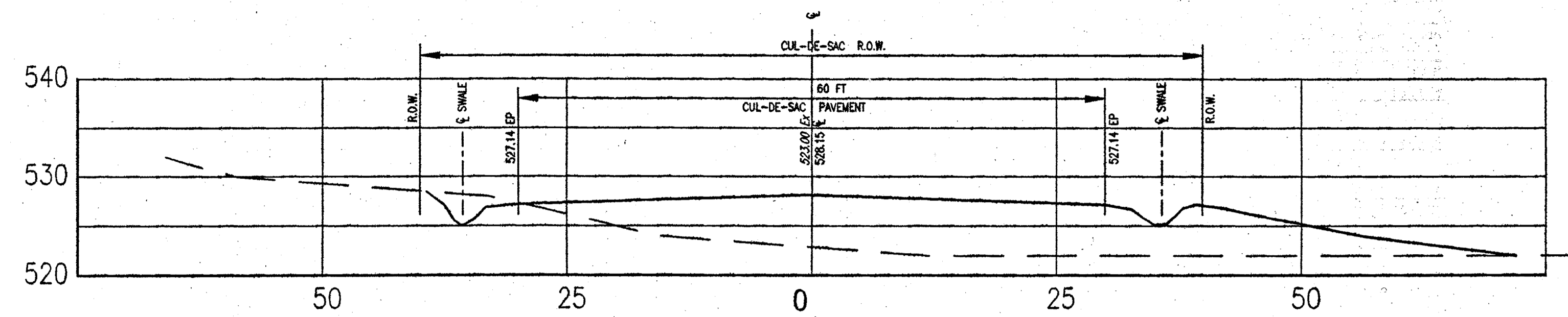
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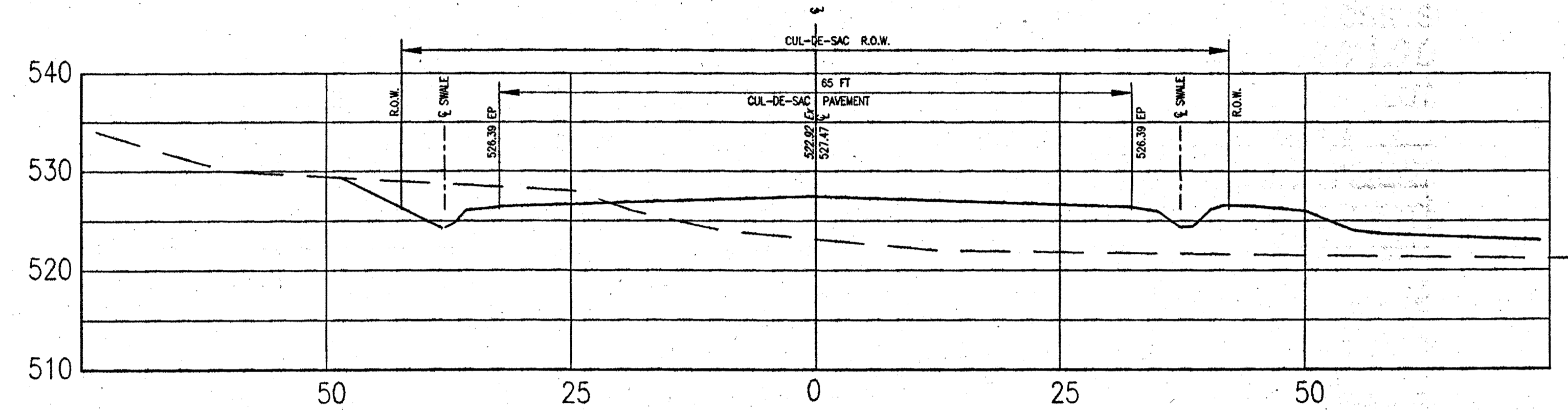
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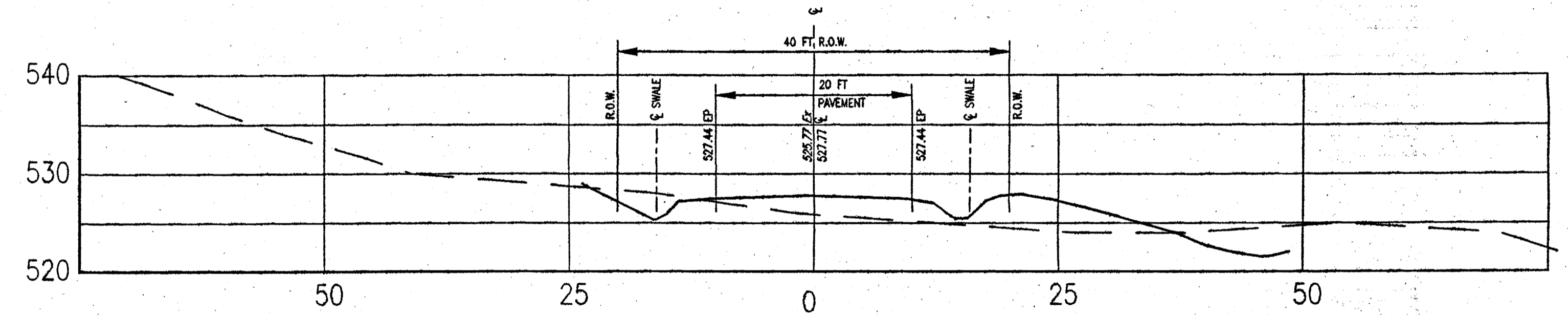
STA 14+50



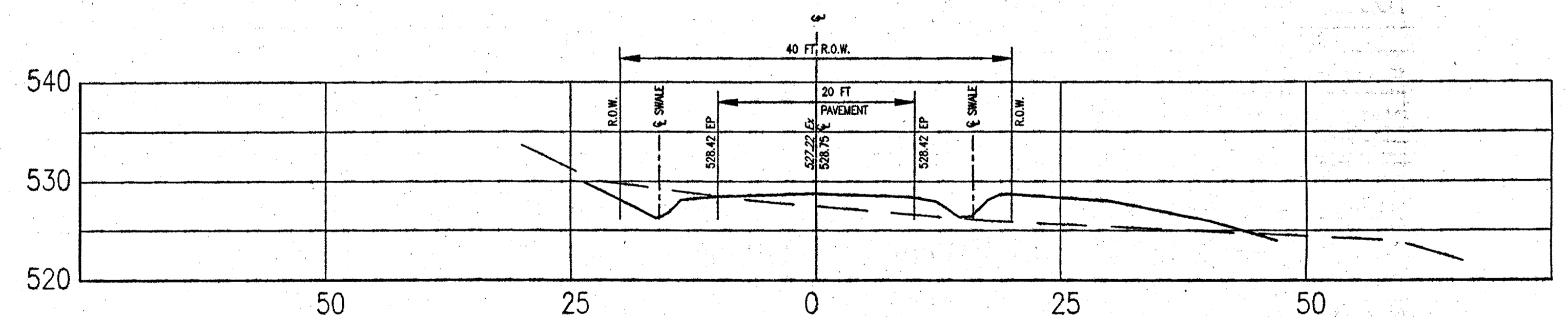
STA 18+00



STA 17+50



STA 17+00



STA 16+50

ROADWAY CROSS SECTIONS
GREAT MEADOWS I
 BLOCK 21 LOT 38
 TOWNSHIP of INDEPENDENCE WARREN COUNTY, NJ

M Matarazzo
 Engineering, LLC
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DATE AUGUST 12, 2013
 FRANK MATARAZZO professional engineer NJ Lic No 37513
 CHARLES J. CARBONE professional engineer NJ Lic No 32367

JAN 31, 2014	As per COMPLETENESS REVIEW	SCALE 1" = 10'	DRN BY CJC	CHK BY FM	FILE No 111281	DRAWING 111281-SUB	SHT 14 OF 16
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WARREN COUNTY SOIL CONSERVATION DISTRICT
SOIL EROSION AND SEDIMENT CONTROL
GENERAL NOTES

CONSTRUCTION SEQUENCE FOR SOIL EROSION CONTROL

1. Place silt fence 1 day
2. Establish stone wheel cleaning blanket and construction entrance 1 day
3. Grade Site 2 months
4. Install utilities 2 months
5. Install roadway subbase 2 weeks
6. Construct drainage swales 1 week
7. Install roadway base course 1 day
8. Install roadway surface course 1 day
9. Stabilize exposed areas 3 days
10. Remove soil erosion measures 1 day

1. The District shall be represented at the project preconstruction meeting with the township engineer, contractors, and utility representatives. If the township engineer does not schedule a preconstruction meeting, it is the responsibility of the owner/applicant to schedule one before any land disturbance. Two weeks notice must be given for scheduling preconstruction meetings.
2. Failure of the aforementioned plan shall not relieve the applicant of any of its responsibilities relevant to the appropriate statutes. Additional erosion and sediment control measures may be required as deemed necessary by the District in the event of any unforeseen problems incurred during construction.
3. Any changes of approved plans shall require an additional submittal to the District including appropriate re-review fees.
4. A 72 hour Start of Land Disturbance Notification shall be given.
5. In that N.J.S.A. 4-24-39 et seq requires that no Certificate of Occupancy be issued by the municipality before provisions of the certified plan for soil erosion and sediment control have been complied with for permanent measures. All site work relative to approved plans and all work around individual lots in subdivisions will be completed before the District issues a Certificate of Compliance. Two weeks notice must be given to the District to schedule inspection for Certificate of Compliance release.
6. Final stabilization of all land disturbances associated with the underground utilities, irrespective of phasing, is the ultimate responsibility of the owner.
7. A cash bond of not less than \$2,500. (Per disturbed acre or part thereof, or a lot) will be posted with the Warren County Soil Conservation District during the non growing season (November 15 - April 15) if a Certificate of Compliance is needed and soil erosion and sediment control measures for permanent stabilization are not completed.
8. Sediment tracked onto public right-of-ways shall be swept at the end of each working day.
9. No building permits will be released until all soil erosion and sediment control measures as shown on approved plans are installed.
10. This site is to be controlled with general erosion control measures approved by the District.
11. All erosion and sediment control measures shall be in accordance with Standards for Soil Erosion and Sediment Control in New Jersey, July 1999.
12. Standards for Soil Erosion and Sediment Control in New Jersey, July 1999.
13. See Detail Sheets for Additional Soil and Sediment Control Details.

DUST CONTROL MEASURES

Mulches - See Standard for Stabilization with Mulches Only (page 5-1)
Vegetative Cover - See Standard for Temporary Vegetative Cover (page 7-1), Permanent Vegetative Cover for Soil Stabilization (page 4-1), and Permanent Stabilization with Sod (page 6-1)
Spray On Adhesives - On mineral soils (not effective on muck soils) Keep traffic off these areas.

Tillage - To roughen surface and bring clods to the surface. This is a temporary emergency measure which should be used before soil blowing starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12 inches apart, and spring-toothed harrows are examples of equipment which may produce the desired effect.

Soilbinding - Site is sprinkled until the surface is wet.

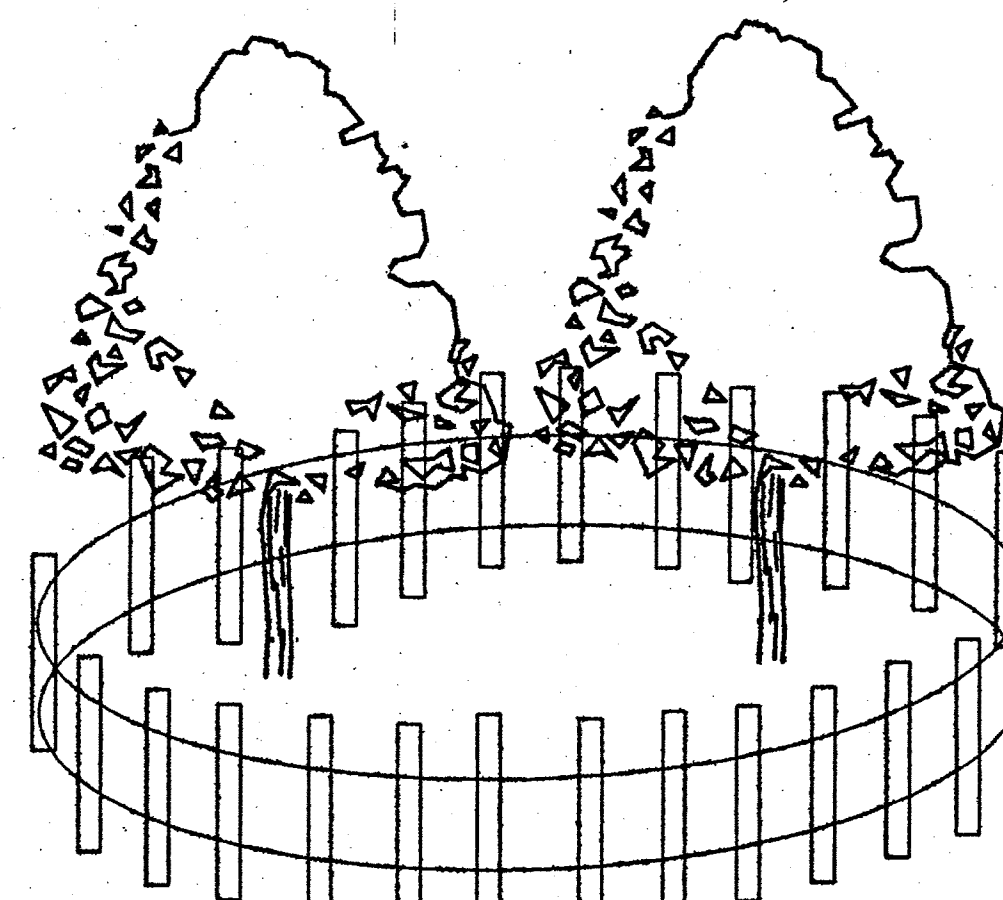
Barriers - Solid board fences, snow fences, burlap fences, crate walls, bales of hay, and similar material can be used to control air currents and soil blowing.

Calcium Chloride - Shall be in the form of loose, dry granules or flakes fine enough to feed through commonly used spreaders at a rate that will keep surface moist but not cause pollution or plant damage. If used on steeper slopes, then use other practices to prevent washing into streams, or accumulation around plants.

Stone - Cover surface with crushed stone or coarse gravel.

DUST CONTROL MATERIALS

MATERIAL	WATER DILUTION	TYPE OF NOZZLE	APPLY GALLONS/ACRE
Amphic asphalt emulsion	7:1	Coarse Spray	1200
Latex emulsion	12:5:1	Fine Spray	250
Resin in water	4:1	Fine Spray	800
Polyacrylonitrile (PAM) spray	Apply according to manufacturer's instructions. May also be used as an additive to sediment basins to flocculate and precipitate suspended colloids.		
Polyacrylonitrile (PAM) dry spread			
Acidulated Soy Bean Soap Stick	None	Coarse Spray	1200



TREE PROTECTION

LENGTHS OF CONSTRUCTION EXITS ON SLOPING ROADBEDS

Percent Slope of Roadway	Length of Stone Required
0 to 2%	50 Ft
2 to 3%	100 Ft
> 3%	200 Ft

Entire surface stabilized with FABC base course

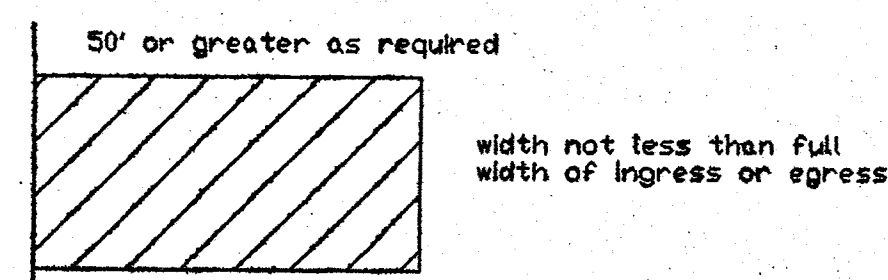
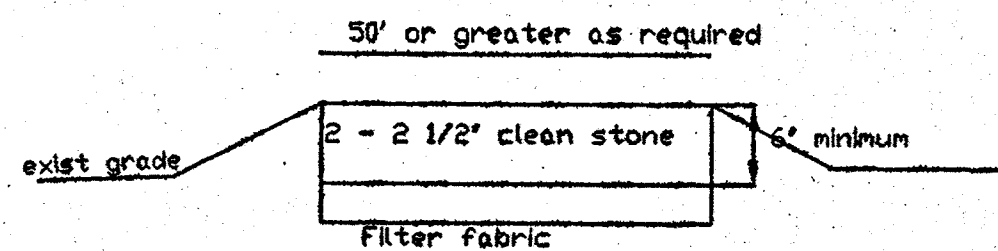
Where a stabilized construction exit traverses between two buildings, it shall be stoned the entire length of the right-of-way. Mountable stone berms placed across the width of the exit may also be required at the transition point between paved and non-paved areas to trap sediments which are carried by stormwater flowing along the curbline.

Individual lot entrance and egress - After interior roads are paved, individual lot ingress/egress points may require a stabilized construction entrance consisting of no. 3 stone (1' to 2') to prevent or minimize tracking of sediments. Width of the stone ingress/egress shall be equal to lot entrance and shall be a minimum of ten feet in length. If space is limited, vehicle tires may be washed with clean water before entering a paved area. A wash station must be located such that wash water will not flow onto paved roadways or into unprotected storm drainage systems.

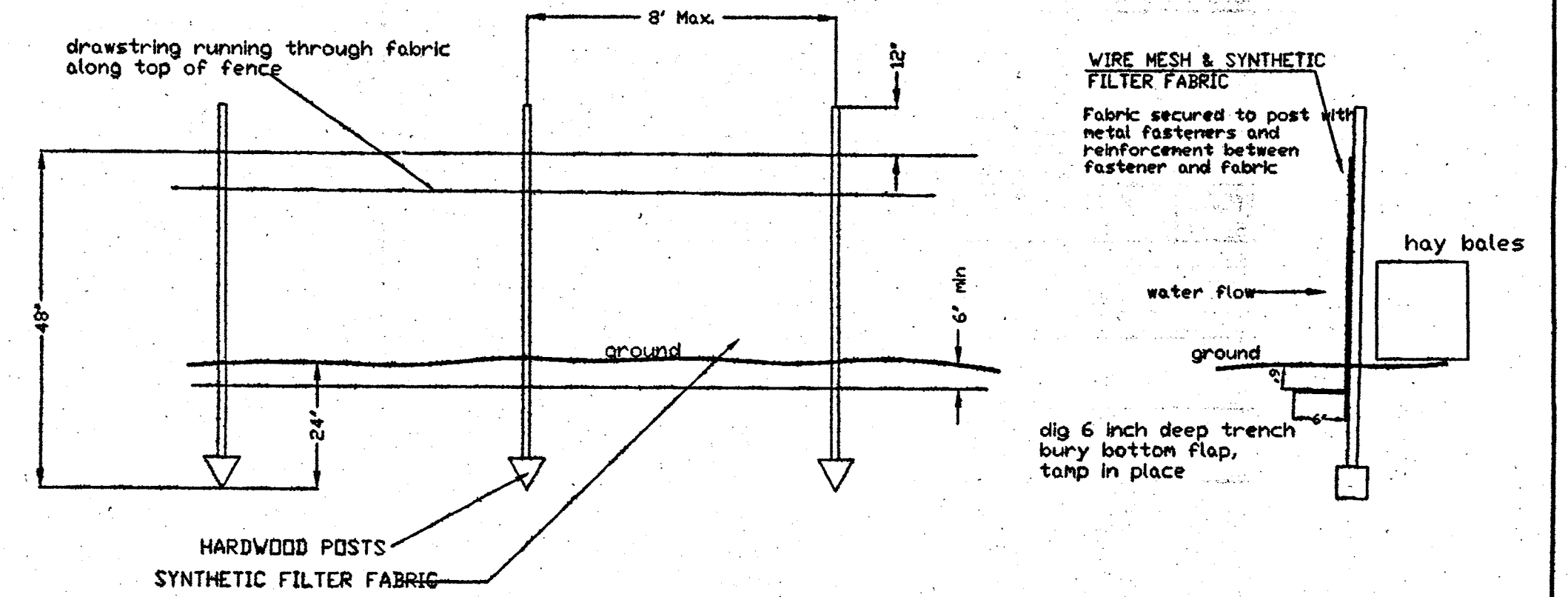
When the construction access exits onto a major roadway, a paved transition area may be installed between the major roadway and the stoned entrance to prevent loose stones from being transported out onto the roadway by heavy equipment entering or leaving the site.

The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto roadways. This may require periodic top dressing with additional stone or additional length as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed, or tracked onto roadways (public or private) or other impervious surfaces must be removed immediately.

Where accumulation of dust/sediment is inadequately cleaned or removed by conventional methods, a power broom or street sweeper will be required to clean paved or impervious surfaces. All other access points which are not stabilized shall be blocked off.

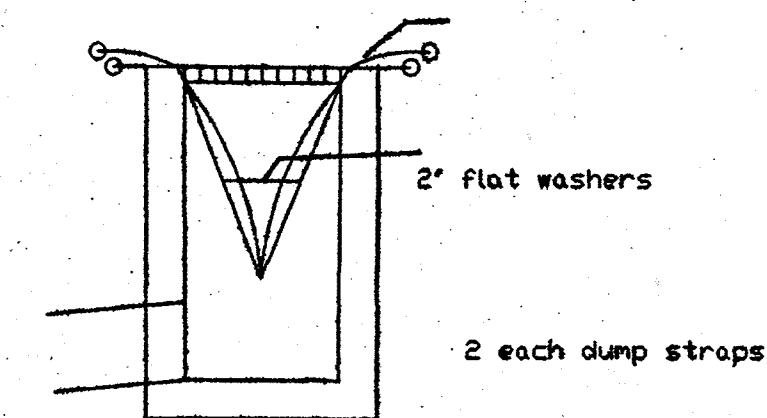


STABILIZED CONSTRUCTION ENTRANCE
A stabilized pad of crushed stone located at points where traffic will be entering or leaving a construction site



1. Fence posts shall be spaced 8 feet center to center or closer. They shall extend at least 2 feet into the ground and extend at least 2 feet above ground. Posts shall be constructed of hardwood with a minimum diameter thickness of 1 1/2 inches.
2. A metal fence with 6 inch or smaller openings and at least 2 feet high may be utilized, fastened to the fence posts, to provide reinforcement and support to the geotextile fabric where space for other practices is limited and heavy sediment loading is expected.
3. A geotextile fabric, recommended for such use by the manufacturer, shall be buried at least 6 inches deep in the ground. The fabric shall extend at least 2 feet above the ground. The fabric must be securely fastened to the posts using a system consisting of metal fasteners (nails or staples) and a high strength reinforcement material (nylon webbing, grommets, washers, etc.) placed between the fastener and the geotextile fabric. The fastening system shall resist tearing away from the post. The incorporate a drawstring in the top portion of the fence for added strength.

FILTER FABRIC DETAIL



- Installation notes for SILTSACK
1. Remove drain grate and insert silt sack
 2. Replace grate to hold silt sack in position
 3. Remove filled silt sack with front end loader or other equipment
 4. Clean and reuse or discard and replace with new silt sack

INLET FILTER DETAIL

THIS PLAN TO BE USED FOR SOIL EROSION

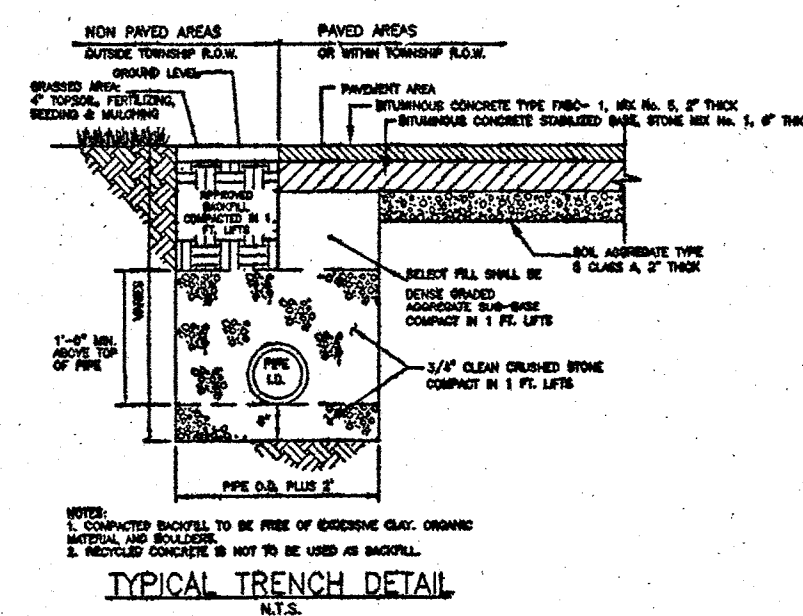
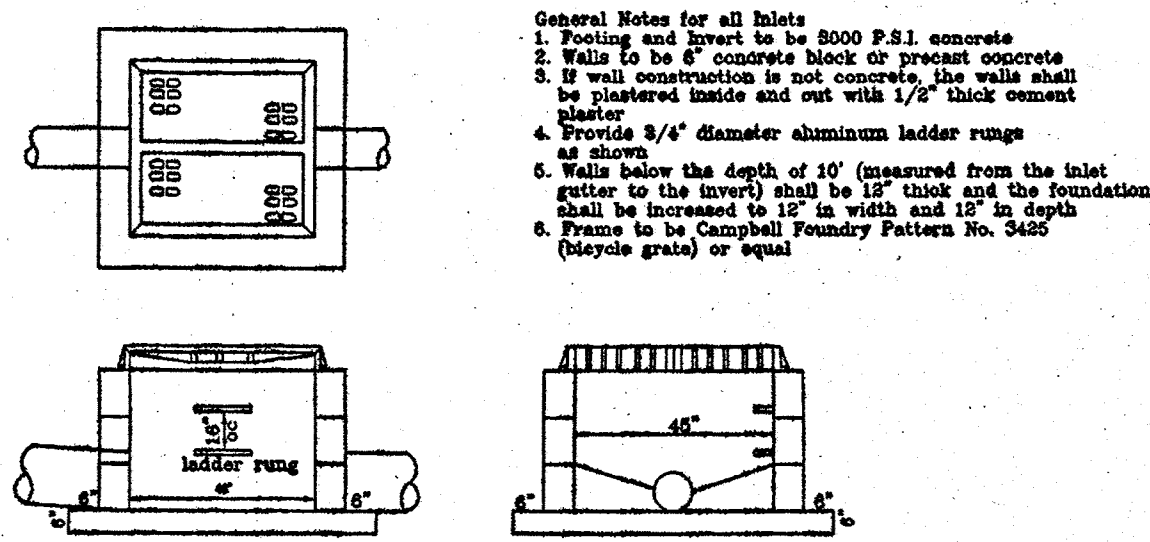
SOIL EROSION DETAILS
GREAT MEADOWS I
BLOCK 21 LOT 38
TOWNSHIP of INDEPENDENCE WARREN COUNTY, NJ

Matarazzo Engineering, LLC
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575 Route 46 West Fairfield, NJ 07004
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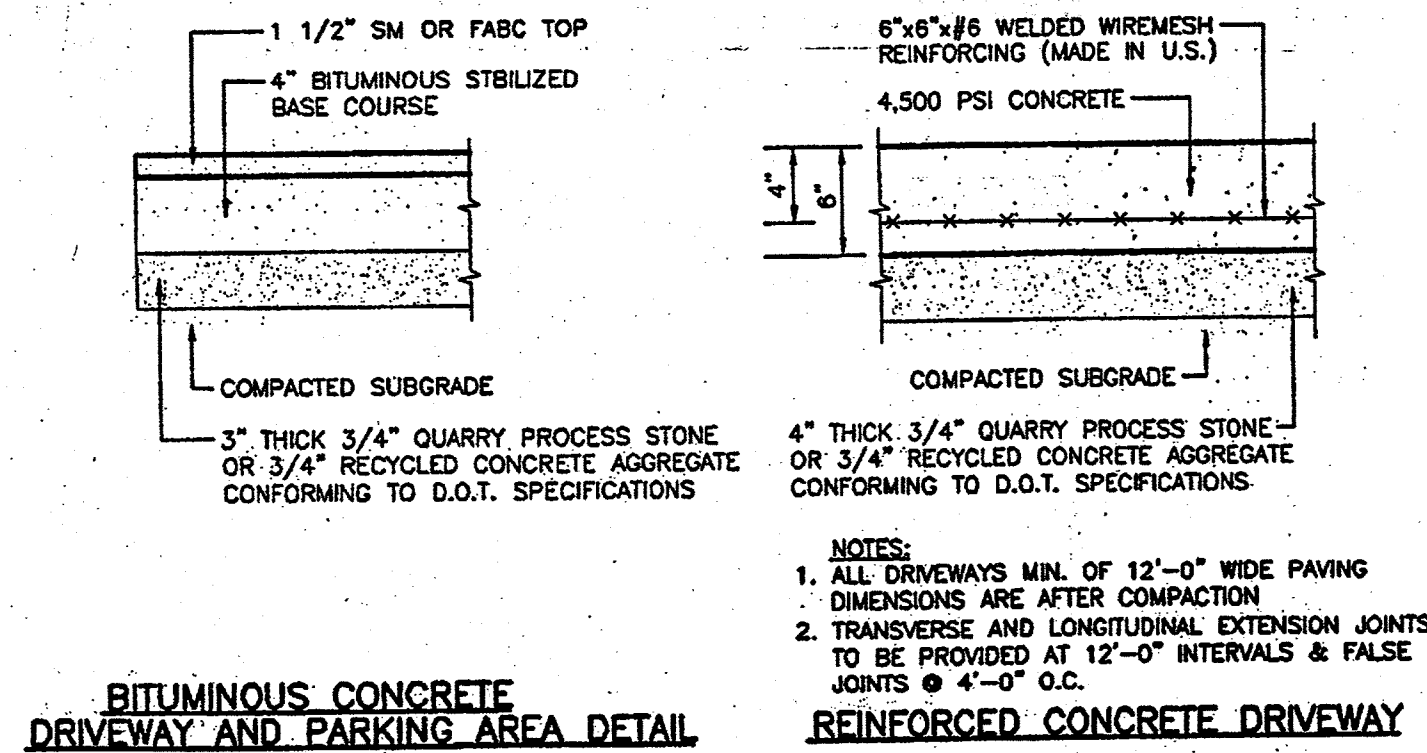
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JAN 31, 2014	AS PER COMPLETENESS REVIEW

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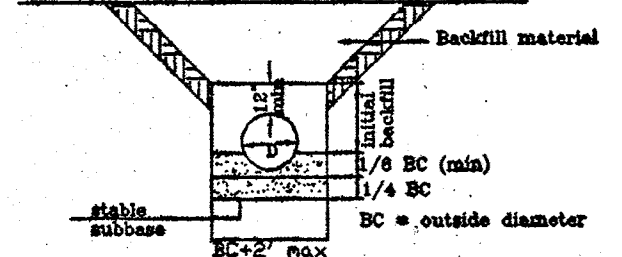
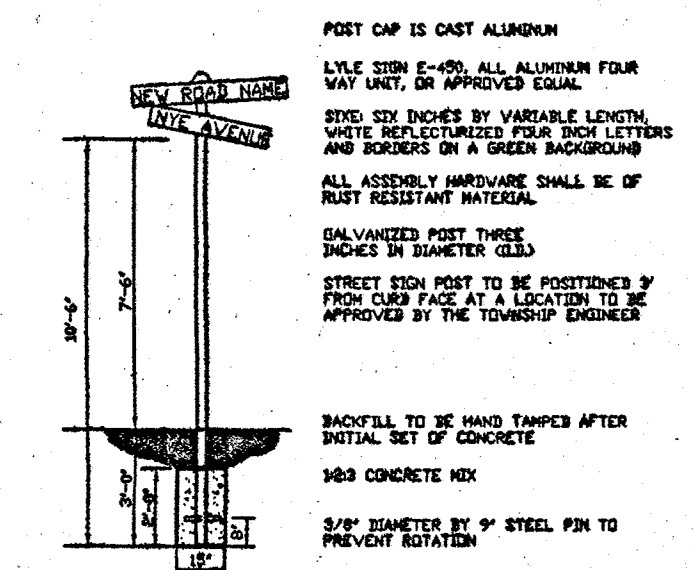
FRANK MATARAZZO professional engineer & land surveyor NJ Lic No 37513
CHARLES J. CARBONE professional engineer NJ Lic No 32587



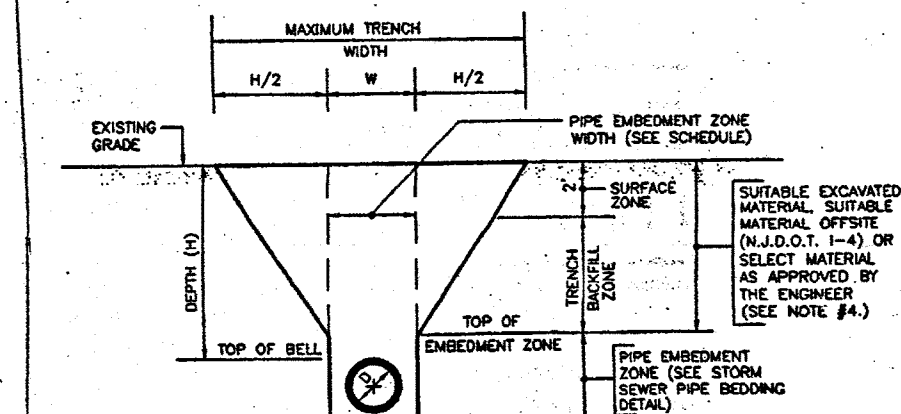
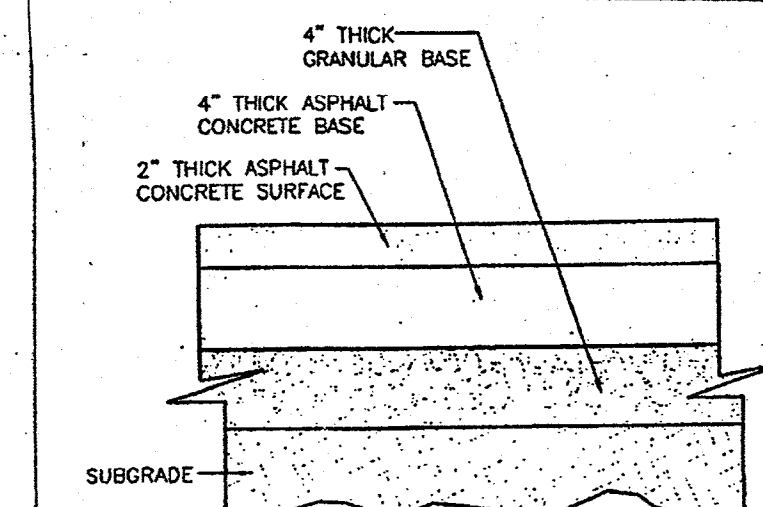
NO PARKING SIGN DETAIL



DRIVEWAY AND SIDEWALK DETAILS
 NOT TO SCALE



Initial backfill and bedding material shall be soil aggregate designation 1-3 conforming to the requirements of article 901.09 table 901-2 of the standard specifications, 1988 supplement, or those changes to conform with A.A.S.T.M. designation M-40-54 (1974) (A.S.T.M. designation M-40-54), size No. 8, 1/8" to 3/8" clean, free flowing and shall meet all A.S.T.M. C-33 specifications for quality and soundness

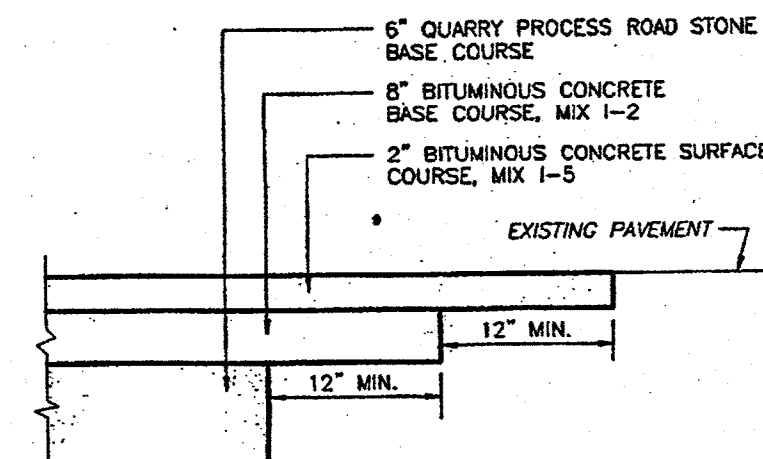


PIPE EMBEDMENT ZONE WIDTH SCHEDULE FOR PIPE MATERIAL OTHER THAN HDPE

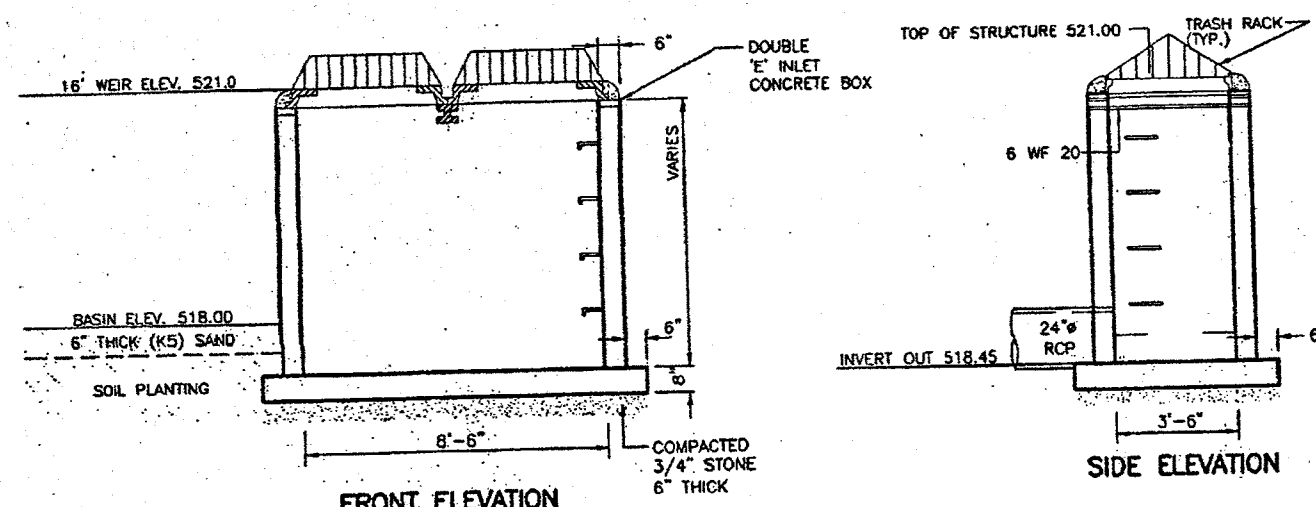
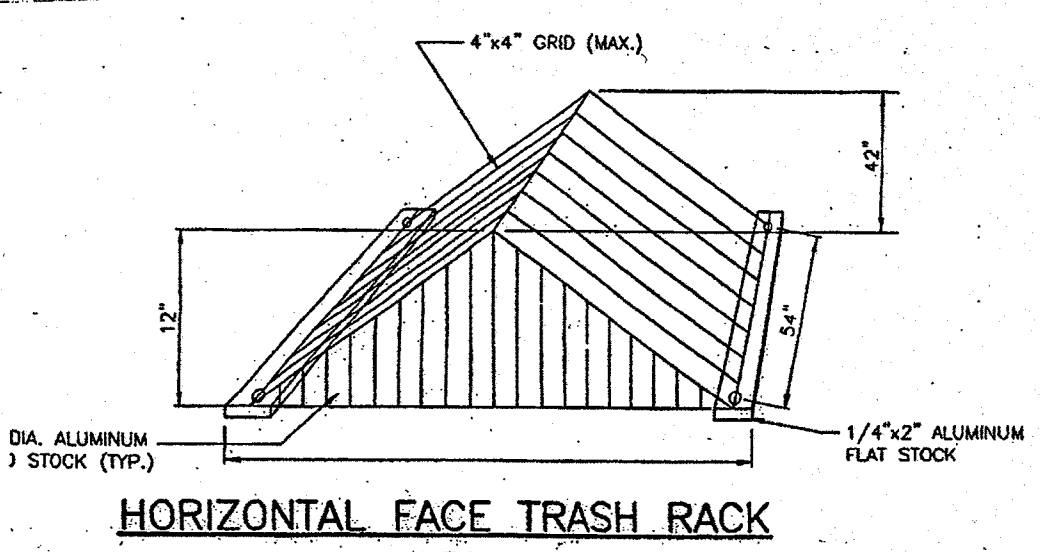
INSIDE DIA. OF PIPE (D)	4", 6", 8"	10", 12"	14", 15", 16"	18"	20", 21"	24"	27"	30"
TRENCH ZONE WIDTH (W)	3'-0"	3'-0"	4'-0"	4'-3"	4'-6"	5'-0"	5'-3"	5'-3"
EMBEDMENT ZONE WIDTH (E)	3'-0"	3'-0"	4'-0"	4'-3"	4'-6"	5'-0"	5'-3"	5'-3"

TRENCH EXCAVATION AND BACKFILL NOTES

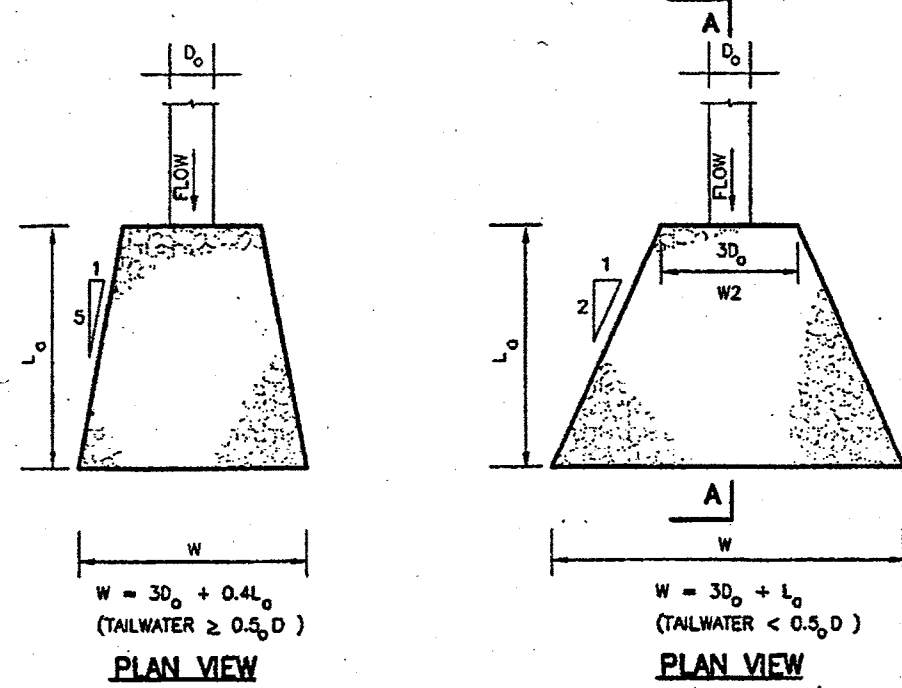
- THE MAXIMUM DRY DENSITY SHALL BE DETERMINED IN ACCORDANCE WITH ASTM D1557. THE MINIMUM PERCENTAGE OF COMPACTION TO BE ACHIEVED BY THE CONTRACTOR IN THE VARIOUS ZONES IS AS FOLLOWS:
- THE PIPE EMBEDMENT ZONE WIDTH AND THE MAXIMUM TRENCH WIDTH SHALL NOT EXCEED THE PERMISSIBLE WIDTHS SHOWN. IF THE PERMISSIBLE WIDTH IS EXCEEDED, THE PIPE SHALL BE INSTALLED IN A HIGHER CLASS BEDDING THAN SHOWN ON THE DRAWING OR THE SPECIFIED PIPE SHALL BE REPLACED WITH PIPE OF GREATER CLASSIFICATION OR BOTH, TO ACHIEVE SUITABLE CONDITIONS.
- SUITABLE MATERIAL FROM EXCAVATION SHALL BE FREE FROM OBJECTIONABLE QUANTITIES OF ORGANIC MATERIAL, CLAY, TRUSS, STUMPS, FROZEN MATERIAL, RUBBLE, CEMENT, ROCKS, AND OTHER MATERIALS CONSIDERED UNDESIRABLE BY THE ENGINEER AND SHALL NOT HAVE FINES IN EXCESS OF 10 PERCENT PASSING THE NO. 200 SIEVE NOR STONE OR GRAVEL LARGER THAN 2 INCHES.
- TRENCH BACKFILL WITHIN THE PASSED POINT OF WY SHALL BE ADJUST SOIL AGGREGATE 1-3 OR SOIL AS REQUIRED BY THE TOWNSHIP ENGINEER.



NOTES:
 1. ALL JOINTS SHALL BE NEATLY CUT WITH MOTORIZED SAW.
 2. JOINTS SHALL BE OFFSET A MINIMUM OF 12" TO PREVENT REFLECTIVE CRACKS.

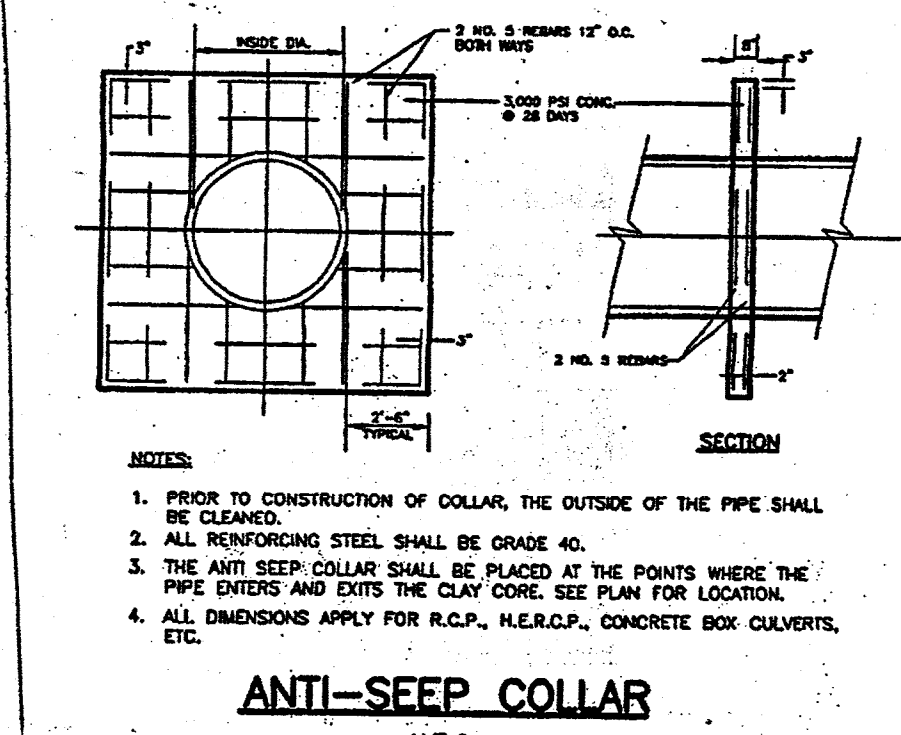
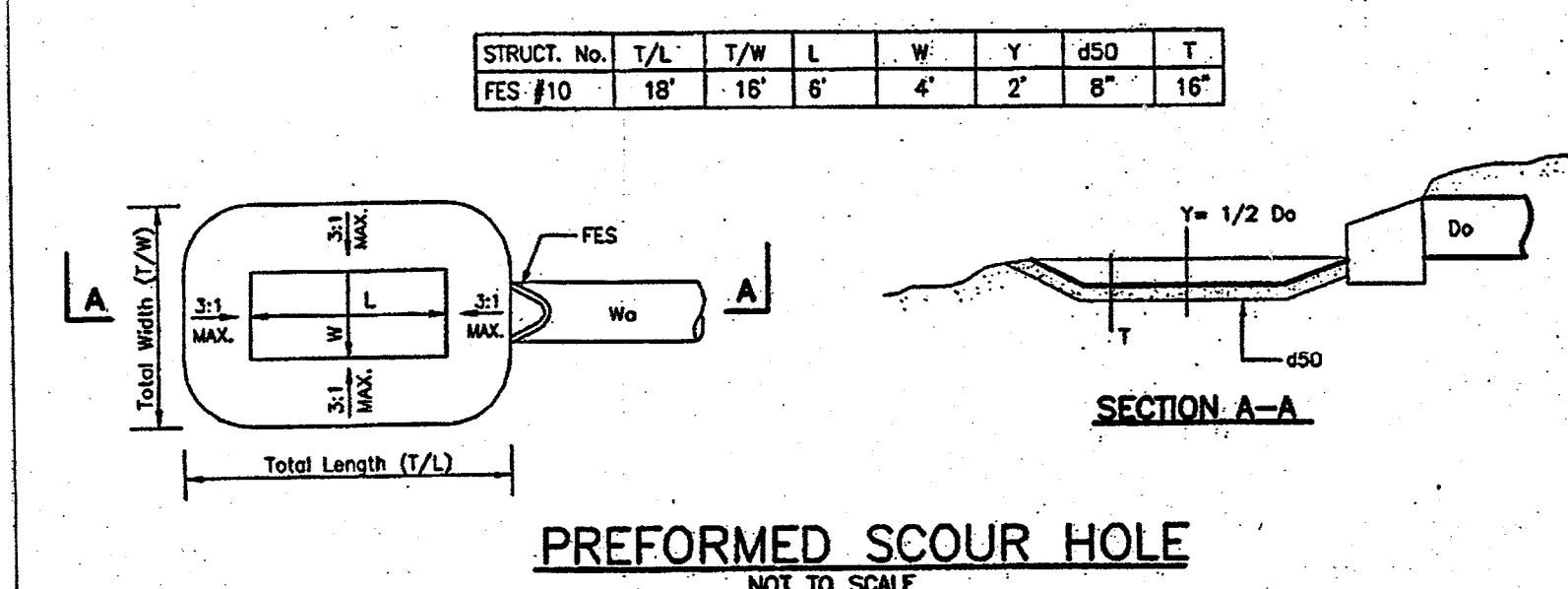


GENERAL NOTES:
 1. EXISTING SOIL OR REPLACEMENT SOIL BELOW 6-INCH SAND LAYER MUST HAVE A MINIMUM PERMEABILITY RATE OF 1-INCH PER HOUR.
 2. BOTTOM SAND LAYER MUST CONSIST OF 60 SAND WITH A MAXIMUM OF 10% FINE AND A MINIMUM PERMEABILITY RATE OF 50 INCHES PER HOUR.
 3. BASIN CONSTRUCTION MUST NOT COMPACT SOILS BELOW BASIN BOTTOM.
 4. SEE NEW JERSEY STORMWATER BEST MANAGEMENT PRACTICES MANUAL (REVISED 2004).

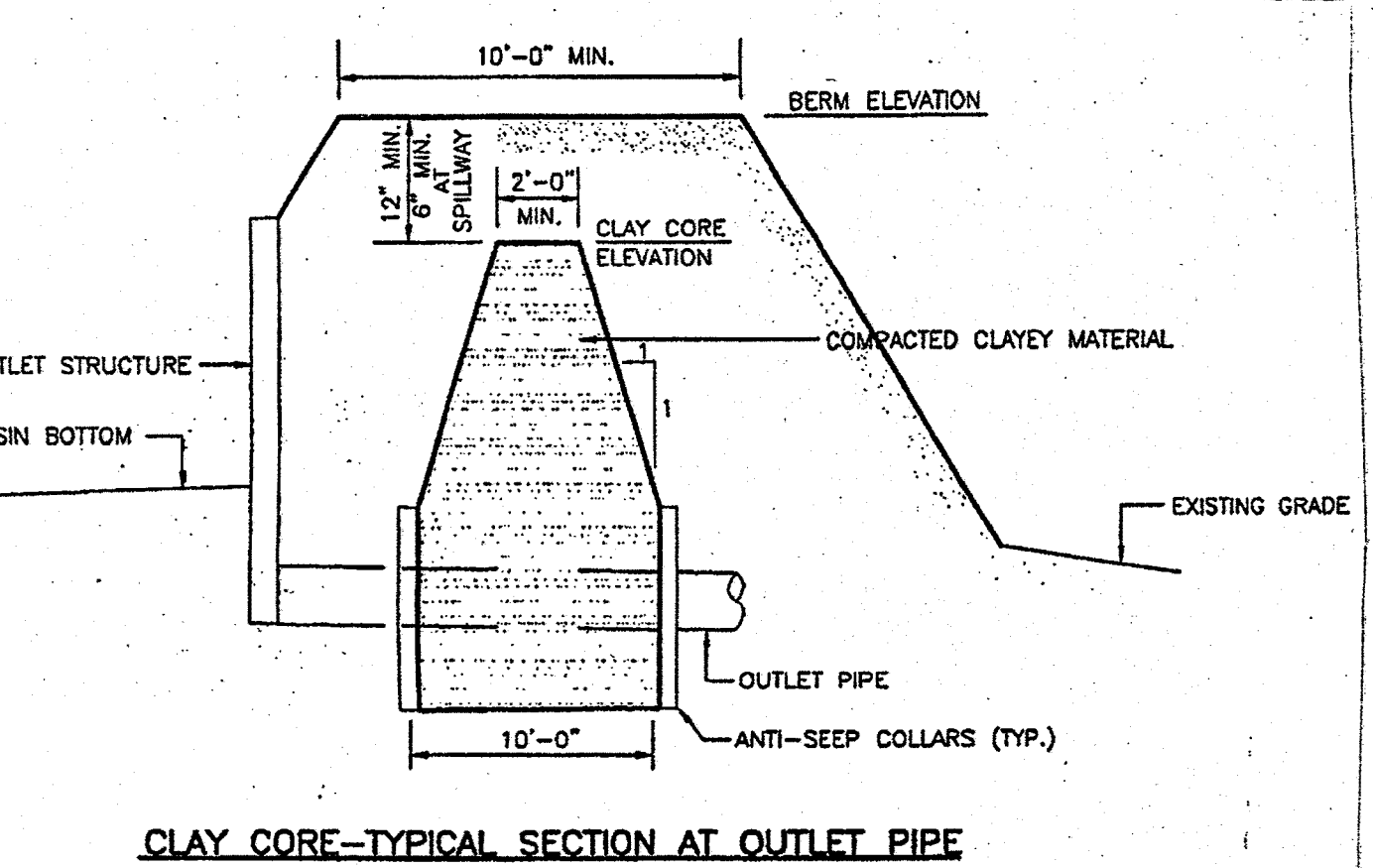


NOTES:
 1. THE STONES SHALL BE OF DURABLE ROCK PREFERABLY TRAP ROCK WEIGHING NOT LESS THAN 50 LBS., AND NOT MORE THAN 150 LBS. EACH AND SHALL BE REASONABLY GRADED. ROCK SHALL WEIGH MORE THAN 100 LBS. EACH, AN ALLOWANCE OF 10% BY WEIGHT OF QUARRY SPALLS (WEIGHING LESS THAN 50 LBS. WILL BE PERMITTED).
 2. THE STONES SHALL BE PLACED WITH THEIR LONGEST AXIS PERPENDICULAR TO THE SLOPE AND IN CLOSE CONTACT AND SHALL BE FIRMLY BEDDED IN THE SLOPE. OPEN SPACES BETWEEN STONES SHALL BE FILLED WITH SPALLS FIRMLY RAMMED IN PLACE. THE LARGER STONES SHALL BE USED IN THE LOWER COURSES. THE FINISHED SURFACE SHALL BE EVEN AND TO THE REQUIRED LINE.
 3. RIP-RAP DESIGN SHALL BE IN ACCORDANCE WITH THE NEW JERSEY SOIL EROSION & SEDIMENT CONTROL DESIGN STANDARDS.

STRUCT. No.	W	W2	L	d50	T
FES #8	36"	5'	27'	3"	6"



NOTES:
 1. PRIOR TO CONSTRUCTION OF COLLAR, THE OUTSIDE OF THE PIPE SHALL BE CLEANED.
 2. ALL REINFORCING STEEL SHALL BE GRADE 40.
 3. THE ANTI-SEEP COLLAR SHALL BE PLACED AT THE POINTS WHERE THE PIPE ENTERS AND EXITS THE CLAY CORE. SEE PLAN FOR LOCATION.
 4. ALL DIMENSIONS APPLY FOR R.C.P., H.E.R.C.P., CONCRETE BOX CULVERTS, ETC.



NOTES:
 1. THE BERM SHALL BE TESTED FOR STRUCTURAL SOUNDNESS MEETING THE REQUIREMENTS SET FORTH BY THE MUNICIPAL ENGINEERS' OFFICE.
 2. THE MINIMUM TOP WIDTH OF THE DETENTION/RETENTION BASIN BERM SHALL AS NOTED. A CUTOFF TRENCH (KEY-WAY) OF IMPERVIOUS MATERIAL SHALL BE PROVIDED UNDER ALL EMBANKMENTS THAT REQUIRE FILL MATERIAL. THE CUTOFF TRENCH SHALL BE SIZED AS NOTED.
 3. ALL DETENTION/RETENTION BASIN EMBANKMENTS SHALL BE PLACED IN MAXIMUM OF EIGHT (8) INCH LIFTS AND COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DRY DENSITY AS ESTABLISHED BY ASTM D-1557.

CLAY CORE DETAIL FOR DRY BASINS (TYP.)
 NOT TO SCALE

CONSTRUCTION DETAILS
GREAT MEADOWS I
 BLOCK 21 LOT 38
 TOWNSHIP of INDEPENDENCE WARREN COUNTY, NJ

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 Certificate of Authorization 24CA28051000

DATE	SCALE	DRN BY	CHK BY	FILE No	DRAWING	SHT
JAN 31, 2014	1" = 50'	CJC	FM	111281	111281-SUB	16 OF 16
DATE	SCALE	DRN BY	CHK BY	FILE No	DRAWING	SHT

DATE AUGUST 12, 2013
 FRANK MATARAZZO professional engineer & land surveyor NJ Lic No 37513
 CHARLES J. CARBONE professional engineer NJ Lic No 32367