

PRELIMINARY SITE PLAN

39 SUSAN DRIVE TAX LOT 16 BLOCK 20 TOWNSHIP OF CHATHAM MORRIS COUNTY, NEW JERSEY

200' OWNER'S LIST			
BLOCK	LOT	PROPERTY LOCATION	PROPERTY OWNER & ADDRESS
20	10	101 ORMONT RD	FEKETE, KENNETH S JR & STEPHANIE 101 ORMONT RD CHATHAM, NJ 07928
20	11	97 ORMONT RD	STYPLE, WILLIAM & NANCY 97 ORMONT RD CHATHAM, NJ 07928
20	12	93 ORMONT RD	MUELLER, WILLIAM A & SHARON K 93 ORMONT RD CHATHAM, NJ 07928
20	14	47 SUSAN DR	MESZAR, IBOLYA FLORA 47 SUSAN DR CHATHAM, NJ 07928
20	15	43 SUSAN DR	VAZIRI, MARIAM 28 BEECHWOOD RD SUMMIT, NJ 07901
20	16	39 SUSAN DR	NNG REAL PROPERTY I LLC 39 SUSAN DR CHATHAM, NJ 07928
20	17	35 SUSAN DR	DIRU, HAPPINESS 35 SUSAN DR CHATHAM, NJ 07928
20	18	31 SUSAN DR	157 GRAND LLC 31 SUSAN DR CHATHAM, NJ 07928
20	19	27 SUSAN DR	LIN, STEVE & LAURIE HUANG 94 SAW MILL RD KINNELON, NJ 07405
20	7	115 ORMONT RD	HEFELE, JOHN R & FLORENCE L 115 ORMONT RD CHATHAM, NJ 07928
20	8	109 ORMONT RD	NGHIEM, HUAN/MAUREEN 109 ORMONT RD CHATHAM, NJ 07928
20	9	105 ORMONT RD	DONNABELLA, VINCENT & CATHERINE D 105 ORMONT RD CHATHAM, NJ 07928
27	23	50 SUSAN DR	CORTESE, MICHAEL A & COLLEEN F 50 SUSAN DR CHATHAM, NJ 07928
27	24	46 SUSAN DR	JOHANSON, MARY E 46 SUSAN DR CHATHAM, NJ 07928
27	25	40 SUSAN DR	AL-JUAKLI, SARAB AHMAD/HAMAD, NINA 40 SUSAN DR CHATHAM, NJ 07928
27	26	36 SUSAN DR	DEVINE, HUGH & VIRGINIA M SCHMITT 36 SUSAN DR CHATHAM, NJ 07928
27	27	32 SUSAN DR	ANTONIADES, NICOLAS & SHARON X WU 32 SUSAN DR CHATHAM, NJ 07928
27	28	28 SUSAN DR	MATKOWSKI, MICHAEL & ROBYN FERA 28 SUSAN DR CHATHAM, NJ 07928

THE FOLLOWING COMPANIES MUST ALSO BE NOTIFIED

COMCAST OF CENTRAL NEW JERSEY II, LLC	100 RANDOLPH ROAD SOMERSET, NJ 08873
TRANSCONTINENTAL GAS PIPELINE CORP.	PO BOX 1396 HOUSTON, TX 77252
TEXAS EASTERN TRANSMISSION CORP.	5400 WESTHEIMER CT., SUITE 692 HOUSTON, TX 77056
JCP&L CO. REAL ESTATE DEVELOPMENT	300 MADISON AVENUE MORRISTOWN, NJ 07962
PUBLIC SERVICE ELECTRIC & GAS COMPANY	MANAGER-CORPORATE PROPERTIES 80 PARK PLAZA, T8B NEWARK, NJ 07102
NEW JERSEY-AMERICAN WATER CO.	167 J.F. KENNEDY PARKWAY SHORT HILLS, NJ 07078 ATTN: PAUL HARTELIUS

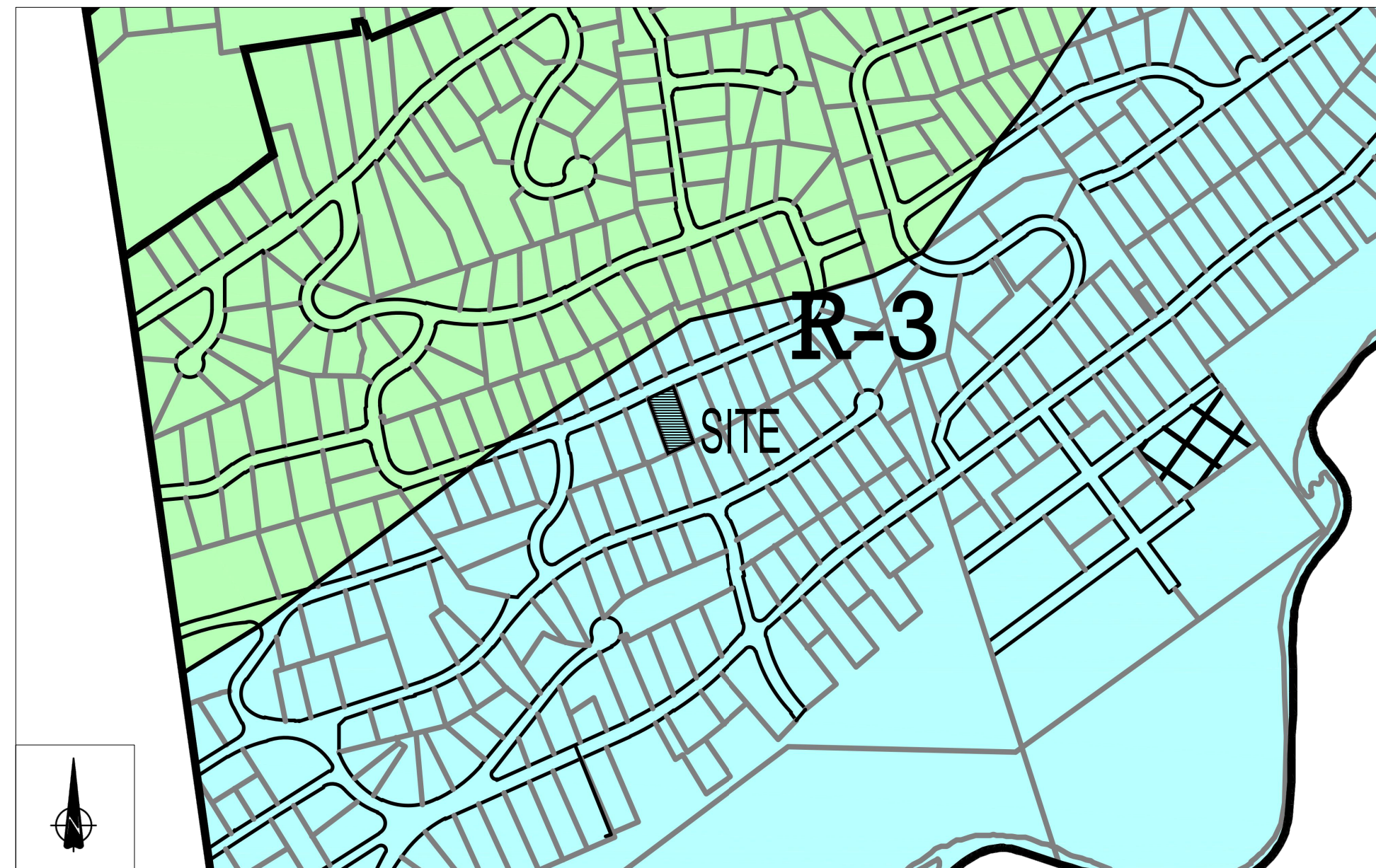
PROTECT YOURSELF
A PHONE CALL
CAN BE YOUR INSURANCE POLICY



WHAT YOU DON'T KNOW CAN HURT YOU.
REGARDLESS OF HOW MUCH INFORMATION YOU OBTAIN, THE EARTH'S
SURFACE ANYWHERE IN THE STATE.

PROPERTY OWNER/APPLICANT:

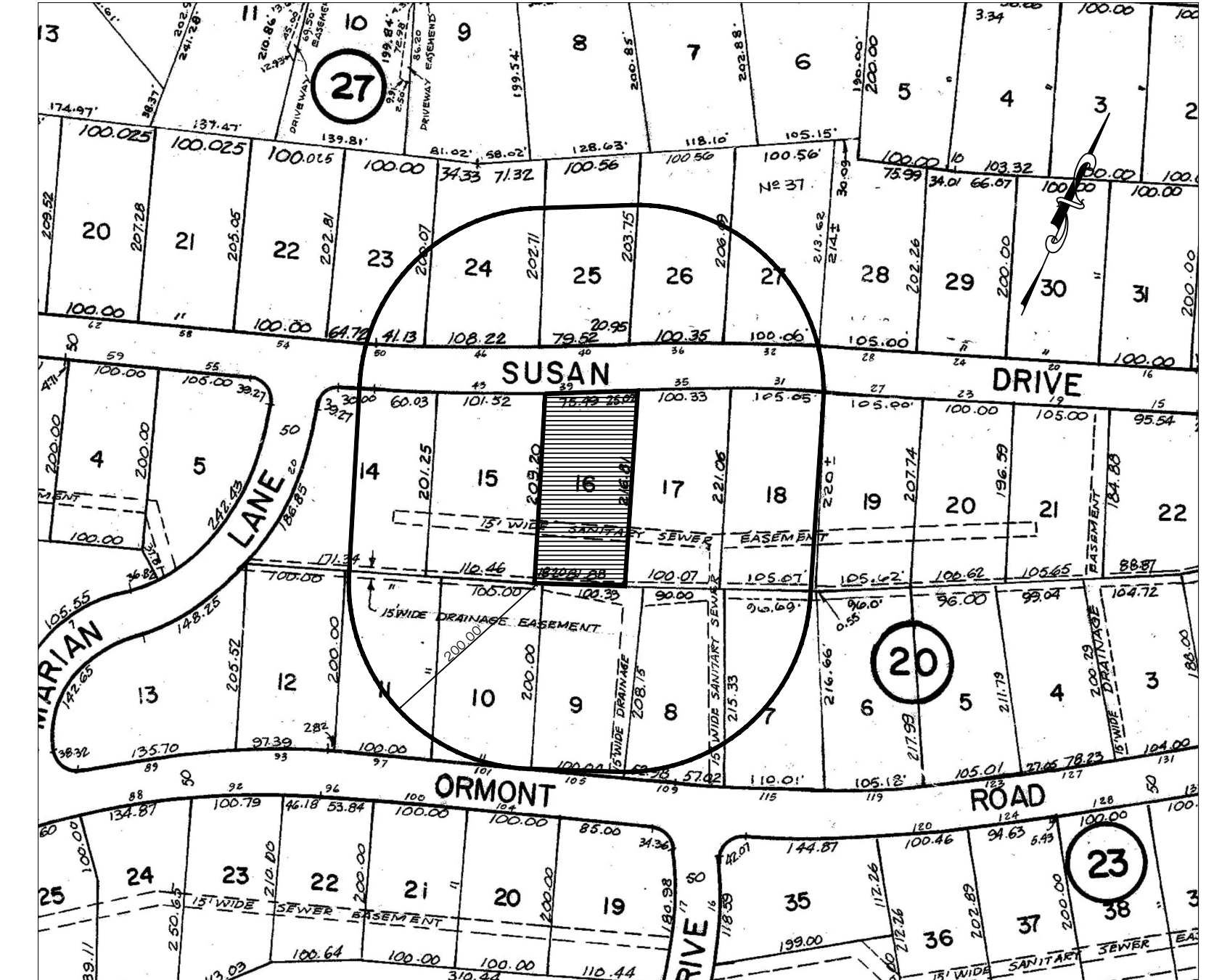
NNG REAL PROPERTY I, LLC
184 SOUTH LIVINGSTON AVENUE
SUITE 9-240
LIVINGSTON, NJ 07039



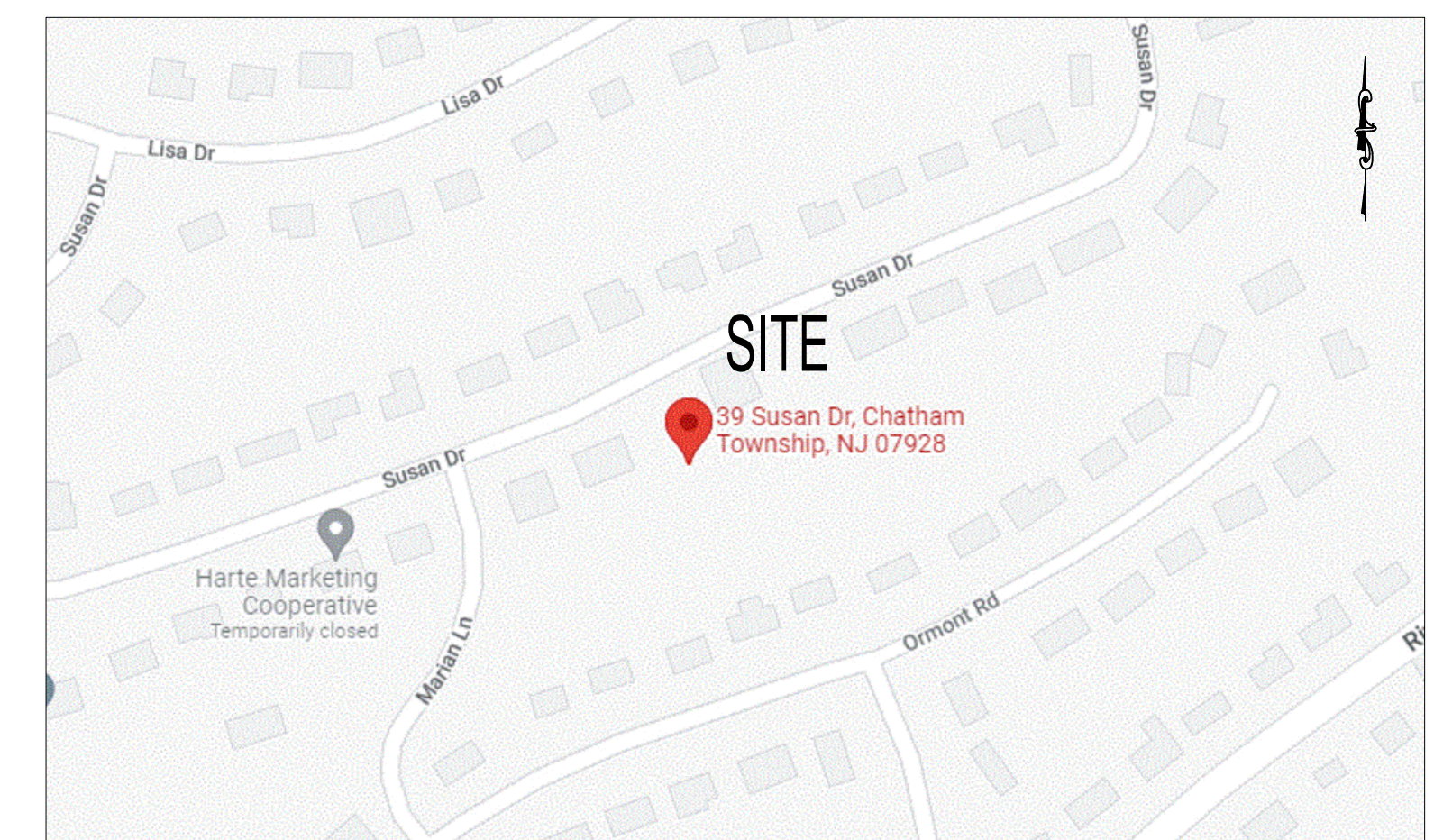
ZONING MAP
SCALE ±1"=250'

SCHEDULE OF GENERAL ZONING REQUIREMENTS (ZONE R-3, RESIDENCE DISTRICT)				
BLOCK 20- 39 SUSAN DRIVE - TOWNSHIP OF CHATHAM				
Regulation	General Requirements	Existing Lot 16	Proposed Lot 16	Comment
Principal Permitted Uses *	One-Family Dwelling	Vacant	One-Family Dwelling	Conforming
Min. Lot Area	20,000 sf	21,322.43 sf	21,322.43 sf	Conforming
Max. Depth of Measurement	200 ft.	216.81 (e)	216.81 (e)	Pre-existing Nonconformity
Min. Lot Width (Street Line)**	90 ft.	100.51 ft.	100.51 ft.	Conforming
Min. Lot Width (Setback Line)	100 ft.	100.50 ft.	100.50 ft.	Conforming
Min. Front Yard	50 ft.	N/A	35.84 ft. (V)	Variance is Required
Min. Rear Yard	50 ft.	N/A	132.86 ft.	Conforming
Min. Side Yard	15 ft.	N/A	15 ft.	Conforming
Min. Side Yard (Combined)	30% (30.15 ft.)	N/A	31.02 ft.	Conforming
Min. Side Yard (Balcony)*****	12 ft.	N/A	10.08 ft. (V)	Variance is Required
Max. Building Height (story/ft.)	2.5 Sty./35 ft.	N/A	3 Sty./51.23 ft. (V)	Variance is Required
Max. Building Coverage***	2,679.35 sf	N/A	2,622.19 sf	Conforming
Max. Impervious Lot Coverage****	6,264.49 sf	N/A	3,861.76 sf	Conforming

Notes:
(e) Pre-existing Nonconformity N/A - Denotes Not Applicable
(V) Variance is Required NA - Denotes Not Available
* Density shall not exceed one (1) lot for every one and one-half (1 1/2) gross acres of subdivision tract area.
** Except that if there are three or more developed lots on the same side of the street within 200 feet of any particular undeveloped lot and none of such developed lots has a front yard as deep as 50 feet then the front yard of the undeveloped lot shall not be required to be deeper than the deepest front yard of such developed lots, provided, however, that in no event shall the front yard of the undeveloped lot be less than 35 feet.
*** 2,000 square feet plus 6% of lot area greater than 10,000 square feet
**** 4,000 square feet plus 20% of lot area greater than 10,000 square feet
*****Projections into Required Yards. Notwithstanding any other provision of this section, the following may project into any front, side or rear yard required in the various zones: chimneys; and portions of a building, provided that no such portion of a building shall project more than three feet into any required front, side or rear yard.



200' RADIUS / TAX MAP
SCALE ±1"=150'



KEY MAP
SCALE ±1"=250'

APPROVED BY PLANNING BOARD - TOWNSHIP OF CHATHAM

BOARD SECRETARY:	DATE:
BOARD CHAIRMAN:	DATE:
BOARD ENGINEER:	DATE:

SHEET	INDEX OF DRAWINGS	ISSUED	REVISED
1	COVER SHEET	12/28/22	
2	SITE DEVELOPMENT PLAN	12/28/22	
3	GRADING AND UTILITY PLAN	12/28/22	
4	CONSTRUCTION DETAILS	12/28/22	
5	SOIL EROSION AND SEDIMENT CONTROL PLAN	12/28/22	
6	SOIL EROSION AND SEDIMENT CONTROL NOTES AND DETAILS	12/28/22	

ADNAN A. KHAN, P.E., C.M.E.	DATE: 07/06/22
PROFESSIONAL ENGINEER	DATE: 07/06/22
DESIGNED BY: A. Khan	DATE: 07/06/22
APPROVED BY: A. Khan	DATE: 12/28/22
N.J. LICENSE NO. 39812	P.A. LICENSE NO. 49656
N.Y. LICENSE NO. 08645	M.D. LICENSE NO. 4180

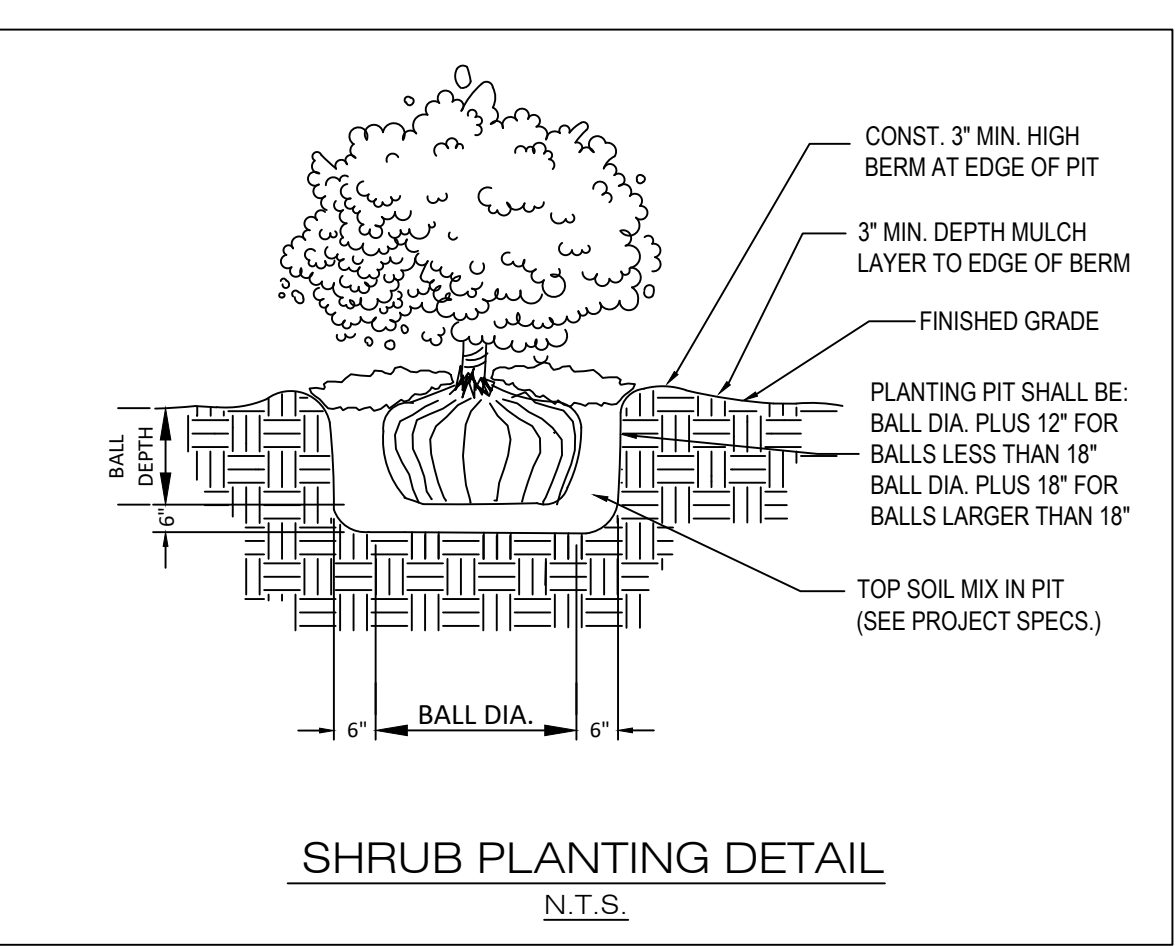
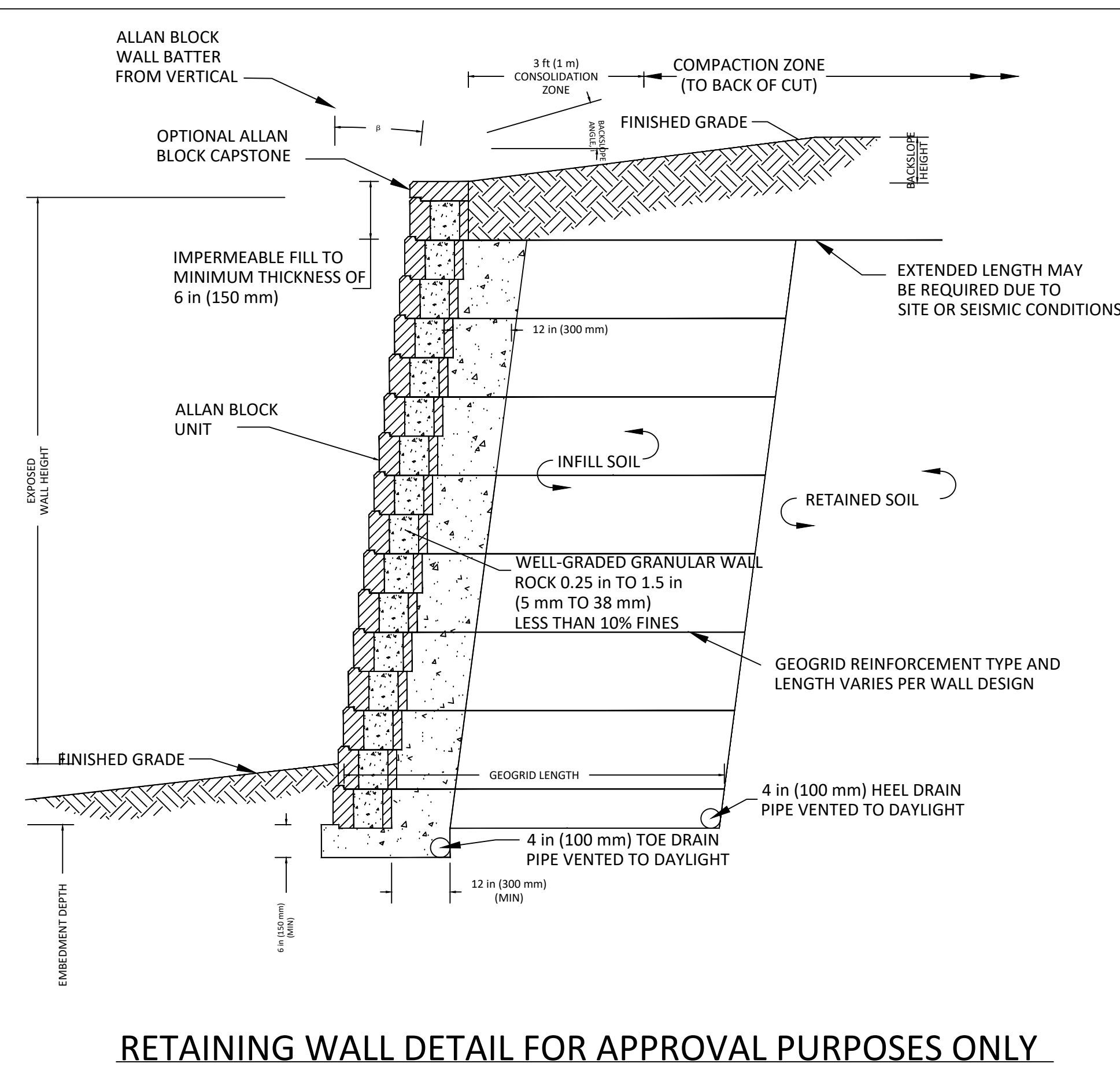
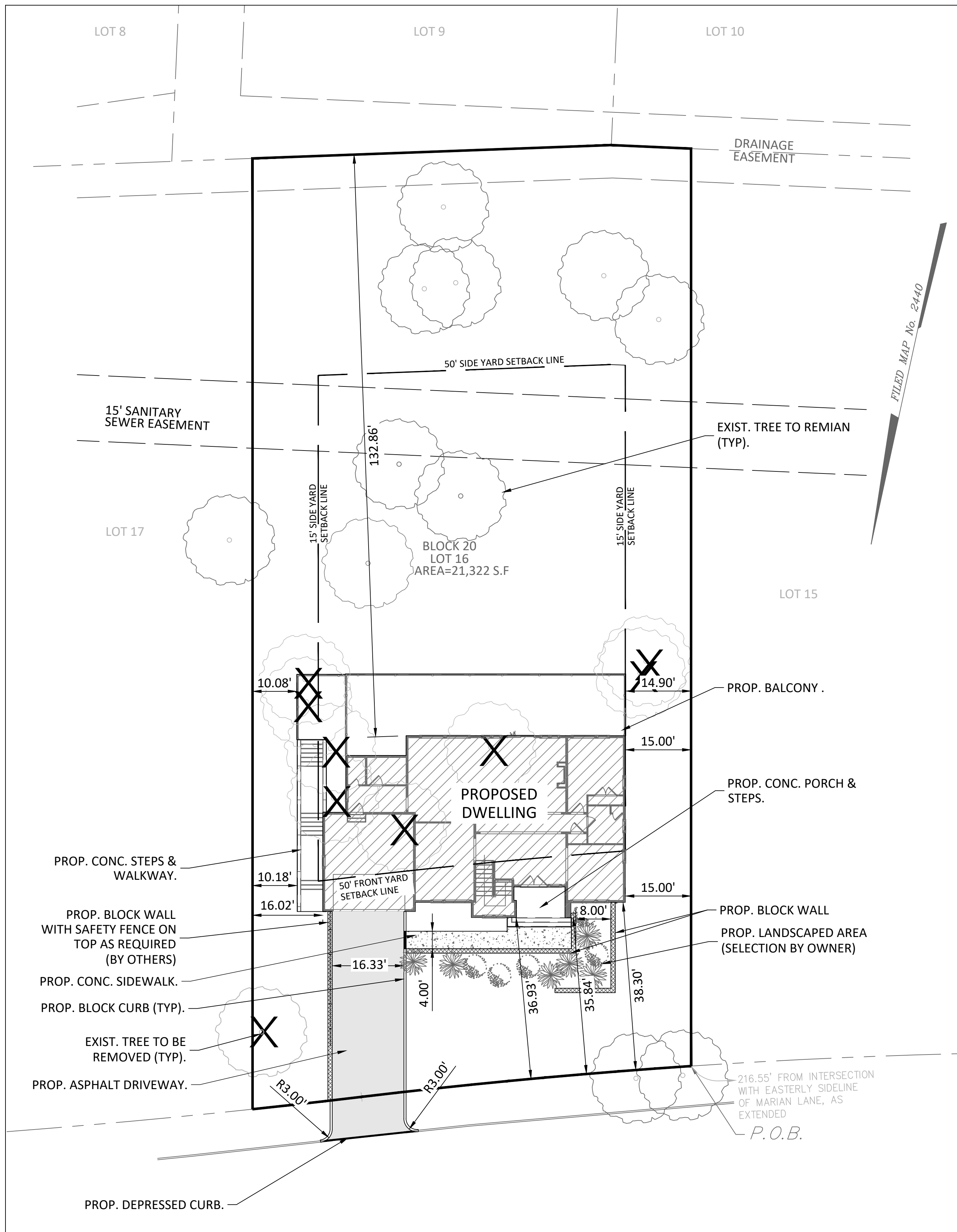
AWZ ENGINEERING, INC.
ENGINEERS • SCIENTISTS • CONSULTANTS
Main Office: 150 River Road, Suite B3, Montville, NJ 07045
Pennsylvania Office: Scranton, PA 18504
Tel: 973-588-7080 Fax: 973-588-7079
www.awzengineering.com e-mail: info@awzengineering.com
New Jersey Certificate of Authority No.: 24GA28118400
Pennsylvania Certificate of Authority No.: 3771354

TAX LOT 16
39 SUSAN DRIVE
TOWNSHIP OF CHATHAM
MORRIS COUNTY, NEW JERSEY
COVER SHEET

JOB NUMBER:
22-0605

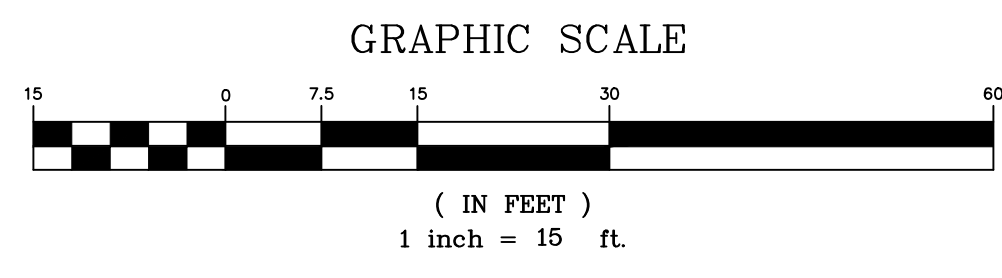
SCALE: AS SHOWN

C-01
SHEET 1 OF 4



- TOWNSHIP NOTES:**
1. AN AREA AT LEAST 10 FEET WIDE AROUND THE FOUNDATION WILL BE GRADED DOWNWARD AWAY FROM THE FOUNDATION.
 2. THE TOWNSHIP ENGINEER MUST BE NOTIFIED AT LEAST 72 HOURS IN ADVANCE OF THE INSTALLATION OF THE STORMWATER MANAGEMENT SYSTEM AND APPURTENANCES.
 3. THE CONTRACTOR WILL ADD ADDITIONAL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS DIRECTED BY THE TOWNSHIP ENGINEER.
 4. APPROPRIATE SAFETY MEASURES WILL BE TAKEN ABOVE RETAINING WALLS.
 5. THE TOWNSHIP ENGINEER MUST BE NOTIFIED AT LEAST 72 HOURS PRIOR TO THE CONNECTION TO THE EXISTING SANITARY SEWER.
 6. A ROAD OPENING PERMIT FROM THE TOWNSHIP DPW IS TO BE OBTAINED PRIOR TO ANY WORK WITHIN THE STREET RIGHT-OF-WAY.

- GENERAL NOTES:**
1. PARCEL IS KNOWN AS TAX LOT 16, IN BLOCK 20 AS SHOWN ON THE TAX MAPS OF THE TOWNSHIP OF CHATHAM.
 2. PARCEL IS LOCATED ENTIRELY IN THE R-3 (SINGLE FAMILY) DISTRICT AS SHOWN ON THE ZONING MAP OF THE TOWNSHIP OF CHATHAM.
 3. THIS IS A SITE DEVELOPMENT PLAN AND NOT A SURVEY. DO NOT SCALE DRAWINGS FOR LOCATIONS OF ADJACENT STRUCTURES AND SURROUNDING PHYSICAL CONDITIONS. THESE ITEMS MAY BE SCHEMATIC ONLY EXCEPT WHERE DIMENSIONS ARE SHOWN THERETO.
 4. ELEVATIONS AND CONTOURS SHOWN ON THIS PLAN ARE BASED ON THE SURVEY PERFORMED AND PROVIDED BY ABC SURVEYS, LLC OF CHATHAM, NJ, DATED 04/01/19 AND ARE BASED ON ASSUMED DATUM.
 5. PROPOSED BUILDING FOOTPRINT SHOWN HERE IS BASED ON ARCHITECTURAL PLANS PROVIDED BY AS ARCHITECTURAL DESIGN, LLC OF ROSELAND, NJ, DATED 11/22/22.
 6. IF THIS DOCUMENT DOES NOT CONTAIN A RAISED IMPRESSION SEAL OF THE PROFESSIONAL, IT IS NOT AN AUTHORIZED ORIGINAL, AND MAY HAVE BEEN ALTERED.
 7. THE CONTRACTOR SHALL NOTIFY THE UNDERSIGNED PROFESSIONAL IMMEDIATELY IF ANY FIELD CONDITIONS ENCOUNTERED DIFFER FROM THOSE SHOWN HEREON.
 8. UTILITY INFORMATION SHOWN HEREON HAS BEEN COLLECTED FROM VARIOUS SOURCES AND IS NOT GUARANTEED AS TO ACCURACY AND COMPLETENESS. THE CONTRACTOR SHALL VERIFY ALL UTILITY INFORMATION TO HIS SATISFACTION PRIOR TO COMMENCEMENT OF ANY WORK. THE CONTRACTOR SHALL PERFORM TEST PITS WHERE EXISTING UTILITIES ARE TO BE CROSSED. TEST PIT INFORMATION SHALL BE GIVEN TO THE ENGINEER PRIOR TO CONSTRUCTION TO PERMIT ADJUSTMENTS AS MAY BE REQUIRED TO AVOID CONFLICTS.
 9. ALL EXISTING UTILITIES THAT ARE TO BE RELOCATED OR ALTERED IN ANY MANNER ARE TO BE DONE IN ACCORDANCE WITH THE RESPECTIVE UTILITY COMPANIES STANDARDS. ALL THE EXISTING UTILITIES EXPOSED DURING CONSTRUCTION ARE TO BE SUPPORTED UNTIL BACKFILL IS IN PLACE. ANY CROSSING LESS THAN ONE FOOT CLEAR TO BE SUPPORTED WITH A SADDLE (CONCRETE OR SAND) AS NOTED.
 10. SITE GRADING AND UTILITY WORK ARE TO BE PERFORMED IN A MANNER TO MINIMIZE DAMAGE TO EXISTING VEGETATION AND TREES. ALL AREAS NOT AFFECTED BY CONSTRUCTION ARE TO REMAIN NATURAL AND UNDISTURBED.
 11. LOCATION OF PROPOSED ROOF DRAINS ARE APPROXIMATE AND SHALL BE COORDINATED WITH THE PROJECT ARCHITECT PRIOR TO CONSTRUCTION. ALL PROPOSED ROOF LEADERS TO BE DISCHARGED AT GRADE TO SPLASH PADS AWAY FROM THE FOUNDATION AND ADJACENT PROPERTIES.
 12. ALL SEWER LINES SHALL BE LOCATED AT LEAST 10 FEET HORIZONTALLY FROM POTABLE WATER LINES AND/OR AT LEAST 18 INCHES BELOW POTABLE WATER LINES AND IN SEPARATE TRENCHES.
 13. ALL UTILITIES SHALL BE INSTALLED UNDERGROUND. DESIGN AND INSTALLATION OF WATER, ELECTRIC, GAS, TELEPHONE AND CABLE TO BE PROVIDED BY RESPECTIVE UTILITY COMPANIES.
 14. WATER AND GAS SERVICE MATERIALS, BURIAL DEPTH, AND COVER REQUIREMENTS SHALL BE SPECIFIED BY THE LOCAL UTILITY COMPANY. CONTRACTOR'S PRICE FOR WATER SERVICE SHALL INCLUDE ALL FEES AND APPURTENANCES REQUIRED BY THE UTILITY TO PROVIDE A COMPLETE WORKING SERVICE. UTILITY CONNECTIONS SHALL COMPLY WITH THE COUNTY/MUNICIPAL ROAD OPENING PERMIT REQUIREMENTS.
 15. THE TOPS OF EXISTING MANHOLES, INLET STRUCTURES, AND SANITARY CLEAN OUTS SHALL BE ADJUSTED, IF REQUIRED, TO MATCH PROPOSED GRADES IN ACCORDANCE WITH ALL APPLICABLE STANDARDS.
 16. NO ON-SITE SOIL TESTING AND GROUNDWATER ASSESSMENT HAS BEEN PERFORMED ON THIS PROJECT BY THE DESIGN ENGINEER. IT SHALL BE THE OWNERS AND/OR CONTRACTORS RESPONSIBILITY TO CONDUCT SOIL TESTING AND GROUNDWATER ELEVATION DETERMINATION TO CONFIRM APPLICABILITY OF PROPOSED IMPROVEMENTS, CONSTRUCT ABILITY OF THE PROPOSED FINISHED GRADES AND CONSTRUCTION TECHNIQUES WITH RESPECT TO SUBSURFACE SOIL AND GROUNDWATER CONDITIONS.
 17. COMPACTING IN FILL AREAS BENEATH ALL PROPOSED UTILITIES AND STRUCTURES SHOULD MEET ALL MANUFACTURERS AND MUNICIPAL REQUIREMENTS AND BE EQUAL TO THE MINIMUM 95% MODIFIED PROCTOR DENSITY.
 18. THIS SET OF PLANS HAS BEEN PREPARED FOR PURPOSES OF MUNICIPAL AND AGENCY REVIEW AND APPROVAL. THIS SET OF PLANS SHALL NOT BE UTILIZED AS CONSTRUCTION DOCUMENTS UNTIL ALL CONDITIONS OF APPROVAL HAVE BEEN SATISFIED AND THE DRAWINGS MARKED "ISSUED FOR CONSTRUCTION".
 19. ALL MATERIAL, WORKMANSHIP AND CONSTRUCTION FOR SITE IMPROVEMENTS SHOWN HEREON SHALL BE PERFORMED IN STRICT CONFORMANCE WITH:
 - NJDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", A CURRENTLY AMENDED.
 - CURRENT PREVAILING MUNICIPAL AND/OR COUNTY SPECIFICATIONS, STANDARDS, AND REQUIREMENTS.
 - CURRENT PREVAILING UTILITY COMPANY/AUTHORITY SPECIFICATIONS, STANDARDS, AND REQUIREMENTS.
 - "RESIDENTIAL SITE IMPROVEMENT STANDARDS", N.J. ADMINISTRATIVE CODE TITLE 5, CHAPTER 21, AS CURRENTLY AMENDED.
 - STANDARDS AND/OR CONDITIONS OF ANY OTHER GOVERNING BODIES HAVING JURISDICTION.
 20. CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE SAFETY CODES. APPLICABLE SAFETY CODES SHALL MEAN THE LATEST EDITION INCLUDING ANY AND ALL AMENDMENTS, REVISIONS AND ADDITIONS THERETO OF THE FEDERAL DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION'S "OCCUPATIONAL SAFETY AND HEALTH STANDARDS" (OSHA), "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION" OF THE STATE OF NEW JERSEY, DEPARTMENT OF LABOR AND INDUSTRY, BUREAU OF ENGINEERING AND SAFETY; "CONSTRUCTION SAFETY CODE", AND "MAINTENANCE, CONSTRUCTION AND DEMOLITION," AND "BUILDING CODE".
 21. CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, WHO SHALL ALSO BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS, AND SEQUENCING OF CONSTRUCTION OPERATIONS. UNDER NO CIRCUMSTANCES SHOULD THE INFORMATION PROVIDED HERE BE INTERPRETED TO MEAN THAT AWZ ENGINEERING, INC. IS ASSUMING RESPONSIBILITY FOR CONSTRUCTION SITE SAFETY OR THE CONTRACTOR'S ACTIVITIES; SUCH RESPONSIBILITY IS NOT BEING IMPLIED AND SHOULD NOT BE INFERRED.
 22. ALL REQUIRED SOIL EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED PRIOR TO ANY SITE DISTURBANCE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY ANY ADDITIONAL SOIL EROSION & SEDIMENT CONTROL MEASURES AS REQUESTED BY THE GOVERNING SOIL CONSERVATION DISTRICT.
 23. TOP SOILING & SEEDING WILL BE PLACED IN THE AREAS DISTURBED DURING CONSTRUCTION AND / OR AS DIRECTED BY THE ENGINEER.



TAX LOT 16 **BLOCK 20**

39 SUSAN DRIVE
TOWNSHIP OF CHATHAM
MORRIS COUNTY, NEW JERSEY

SITE DEVELOPMENT PLAN

JOB NUMBER: 22-0605

SCALE: AS SHOWN

C-02

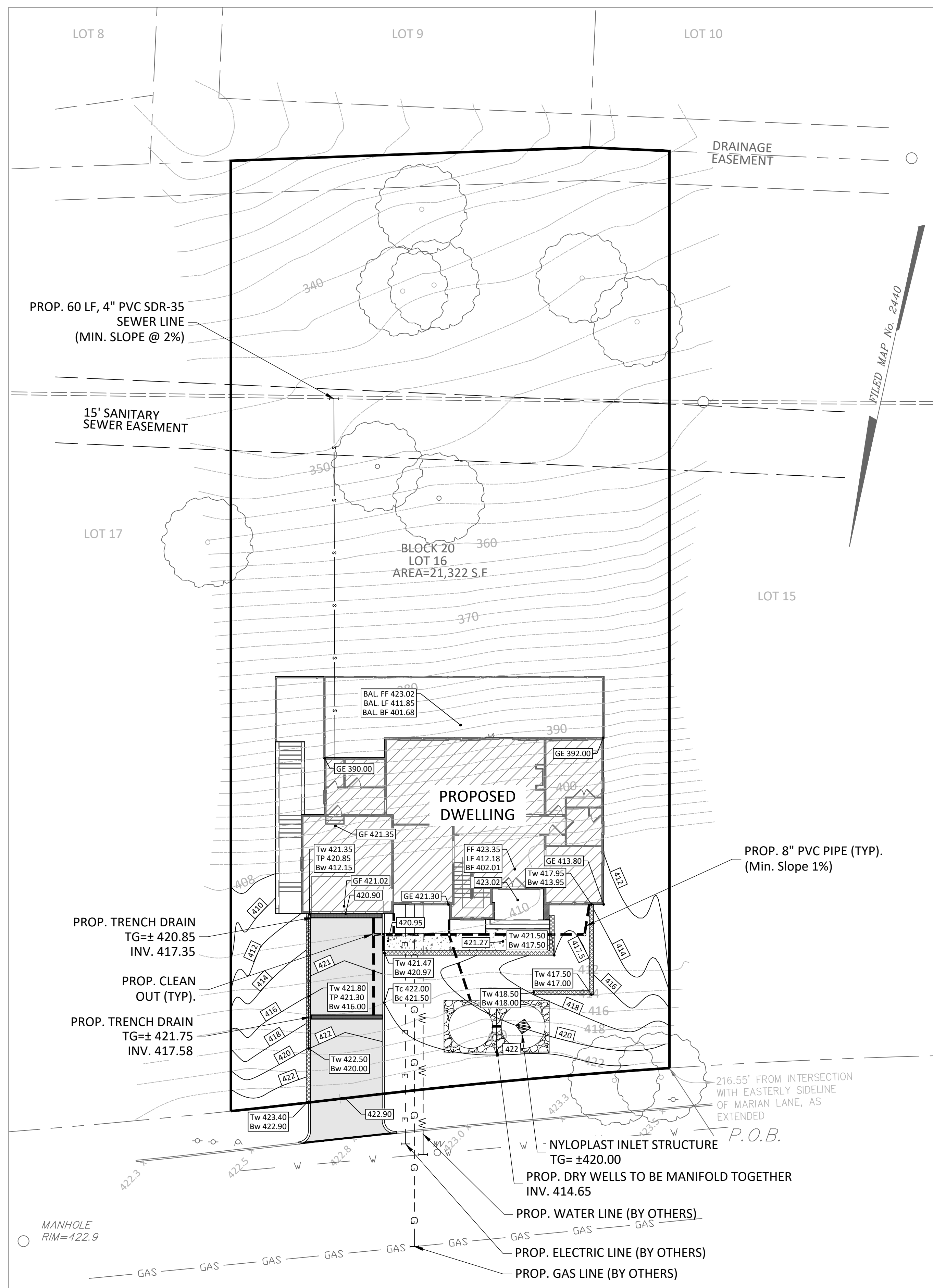
SHEET 2 OF 4

AWZ ENGINEERING, INC.
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 Main Office: 150 River Road, Suite B3, Montville, NJ 07045
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 www.awzengineering.com e-mail: info@awzengineering.com
 New Jersey Certificate of Authorization No.: 24GA28118400
 Pennsylvania Certificate of Authority No.: 37171554

ADNAN A. KHAN, P.E., C.M.E.
PROFESSIONAL ENGINEER

DESIGNED BY: DATE: 07/06/22
 DRAWN BY: DATE: 07/06/22
 CHECKED BY: DATE: 07/06/22
 APPROVED BY: DATE: 07/06/22

REVISIONS: NO. DATE: BY: APE
 1 12/28/22



LEGEND

- EXISTING SPOT ELEVATION
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- TO BE REMOVED
- GROUND ELEVATION
- TOP OF WALL
- TOP OF CURB
- BOTTOM OF CURB
- BOTTOM OF WALL
- TOP OF PAVEMENT
- FINISHED FLOOR
- GARAGE FINISHED FLOOR
- LOWER LEVEL FINISHED FLOOR
- BASEMENT FINISHED FLOOR

AVERAGE ELEVATION CALCULATION (PRE-DEVELOPMENT)

POINT *	AVERAGE GRADE
1	412.00
2	392.38
3	381.53
4	376.48
5	378.64
6	386.72
7	411.36
TOTAL	2,739.11
AVG. GRADE	391.30

* Ground Elevation Within 15' from Foundation.

BUILDING HEIGHT CALCULATIONS:

- AVERAGE GRADE ELEVATION = 391.30'
- GROUND FLOOR ELEVATION = 421.02'
- BUILDING HEIGHT FROM GROUND FLOOR = 21.51'
- DIFFERENCE FROM AVERAGE GRADE AND GROUND FLOOR = 421.02' - 391.30' = 29.72'
- BUILDING HEIGHT = 21.51' + 29.72' = 51.23'

LOT COVERAGE CALCULATIONS

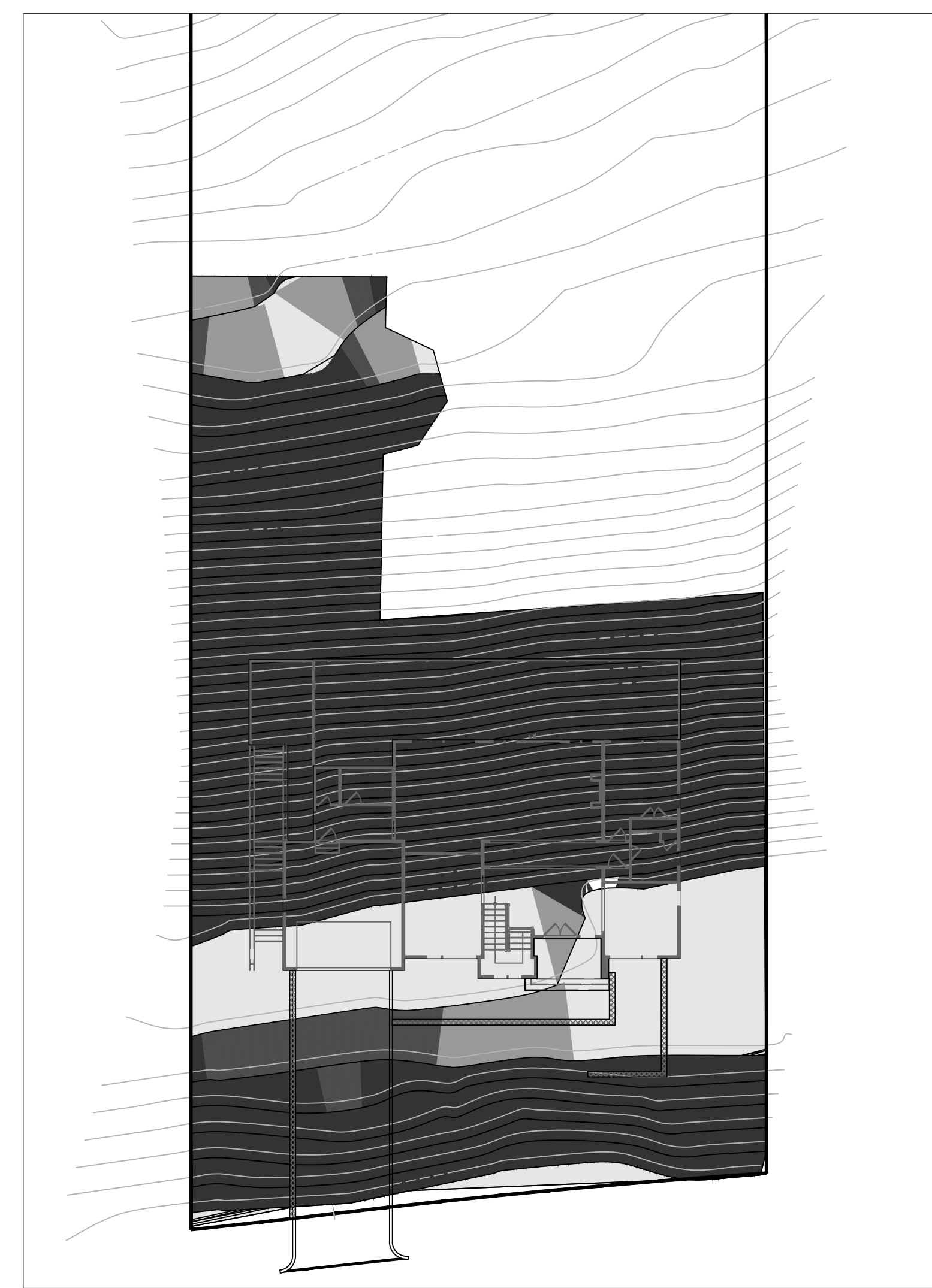
DESCRIPTION	EXISTING	PROPOSED
Lot Area	21,322.43	21,322.43
Dwelling	0.00	2,511.63
Front Porch	0.00	110.56
Total	0.00	2,622.19
Block Wall	0.00	123.44
Side Steps	0.00	242.50
Concrete Sidewalk	0.00	165.50
Block Curb	0.00	20.56
Total Concrete	0.00	552.00
Pavement	0.00	687.57
Green Area	21,322.43	17,460.67
TOTAL	21,322.43	21,322.43
Pervious	21,322.43	17,460.67
Impervious	0.00	3,861.76
Lot Coverage	0.00%	18.11%
Building Coverage	0.00%	12.30%

***IMPERVIOUS SURFACES ON A SINGLE FAMILY RESIDENTIAL LOT IN RESIDENCE DISTRICTS**

Shall mean buildings, roofed structures, pavement, driveways, parking and turnaround areas, sidewalks, patios and other improvements which prevent normal ground water absorption, excluding decks and the surface area of swimming pools.

PROTECT YOURSELF
A PHONE CALL CAN BE YOUR INSURANCE POLICY

WHAT YOU DON'T KNOW CAN HURT YOU.
THE STATE OF NEW JERSEY REQUIRES ACQUISITION OF SEPARATE FLOOD INSURANCE FROM FEDERAL FLOOD INSURANCE PROGRAM PARTICIPANTS.
SURRENDER ANYWHERE IN THE STATE.

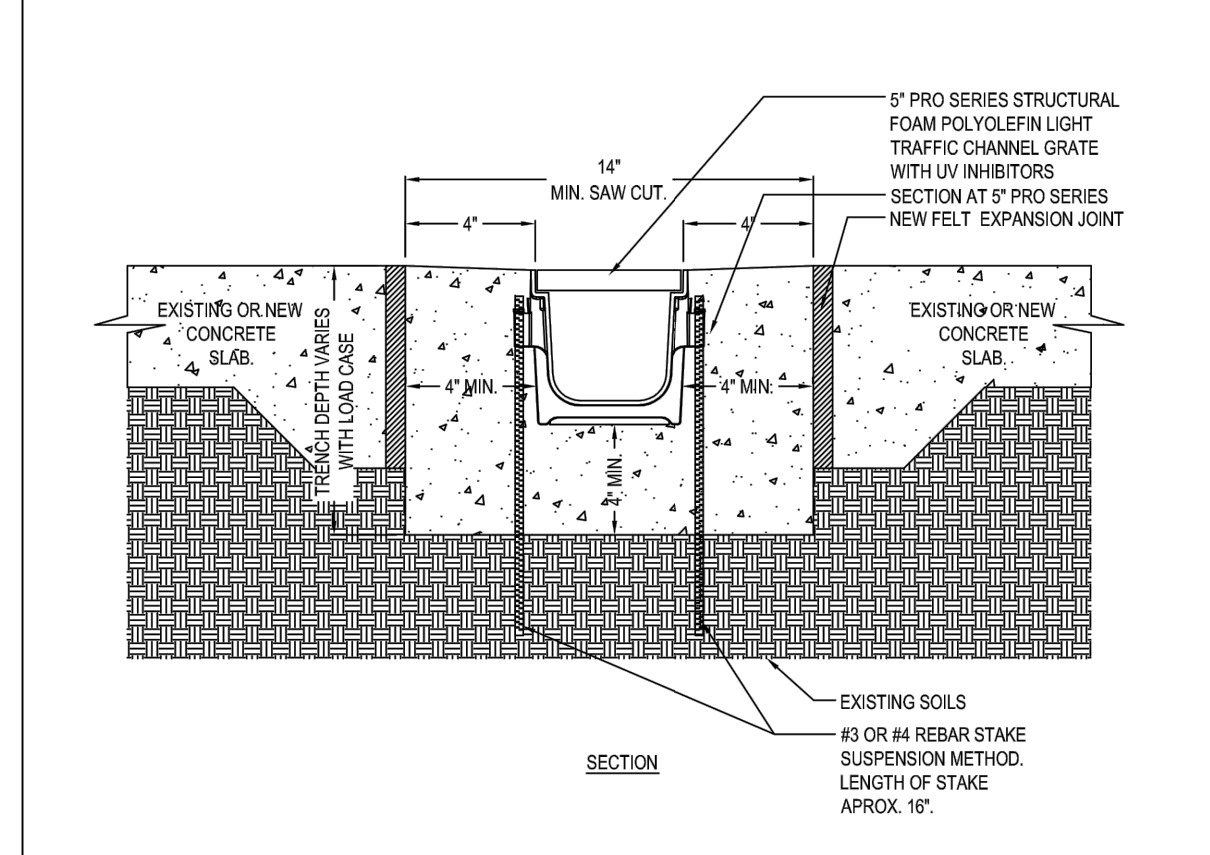


SLOPE ANALYSIS
SCALE: 1" = 20'

Number	Minimum Slope	Maximum Slope	Color	Allowable Area of Disturbance, SF	Proposed Area of Disturbance, SF
1	0.00%	15.00%	Light Gray	-	2679.31
2	15.00%	20.00%	Medium Gray	3500.00	708.73
3	20.00%	25.00%	Dark Gray	1000.00	521.95
4	25.00%	100.00%	Black	500.00	8649.58

NDS
WE PUT WATER IN ITS PLACE

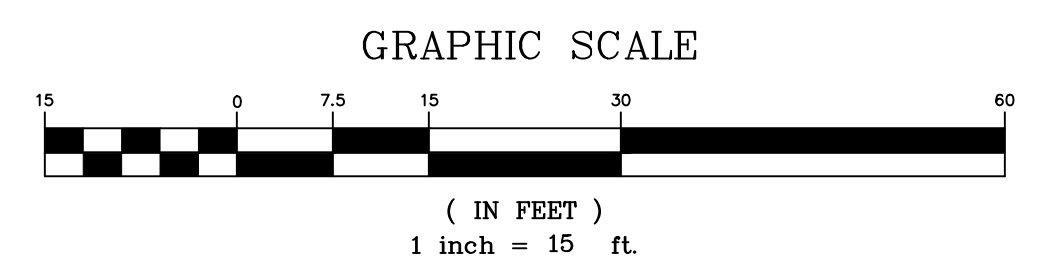
NDS, INC.
851 NORTH HARVARD AVE.
LINDSAY, CA 93247
TOLL FREE: 1-800-726-1994
PHONE: (559) 562-9888
FAX: (559) 562-4488
www.ndspro.com



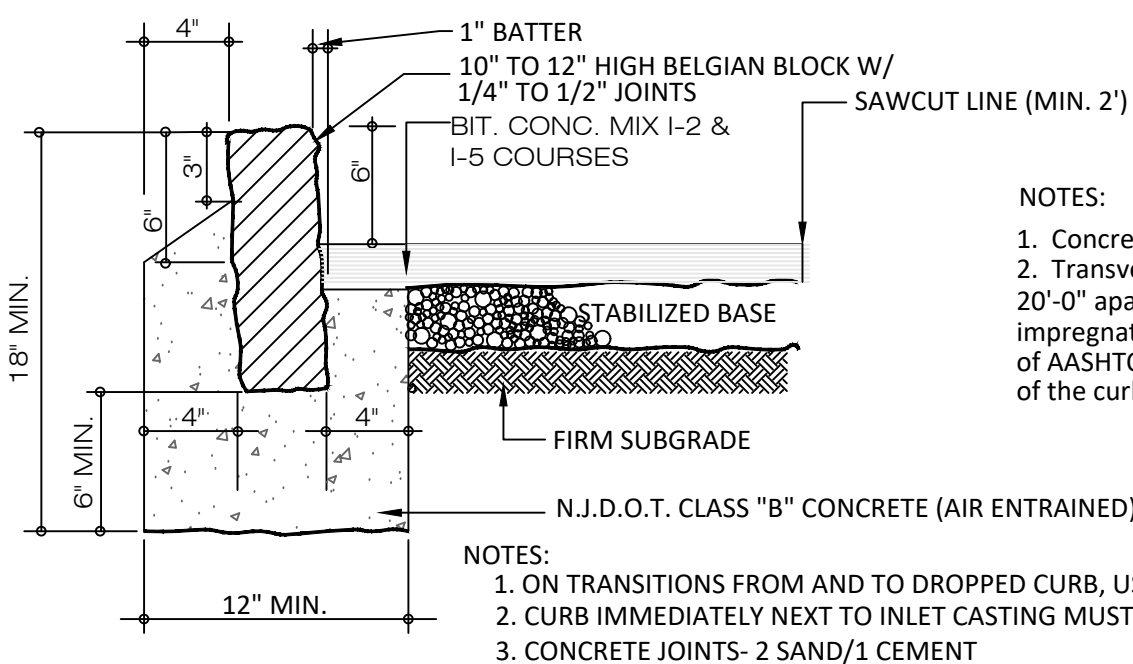
NOTES:

- CHANNELS TO BE INSTALLED WITH GRATE. GRATE TO BE PROTECTED FROM CONCRETE POUR
- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS
- DO NOT SCALE DRAWING
- THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY
- ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.

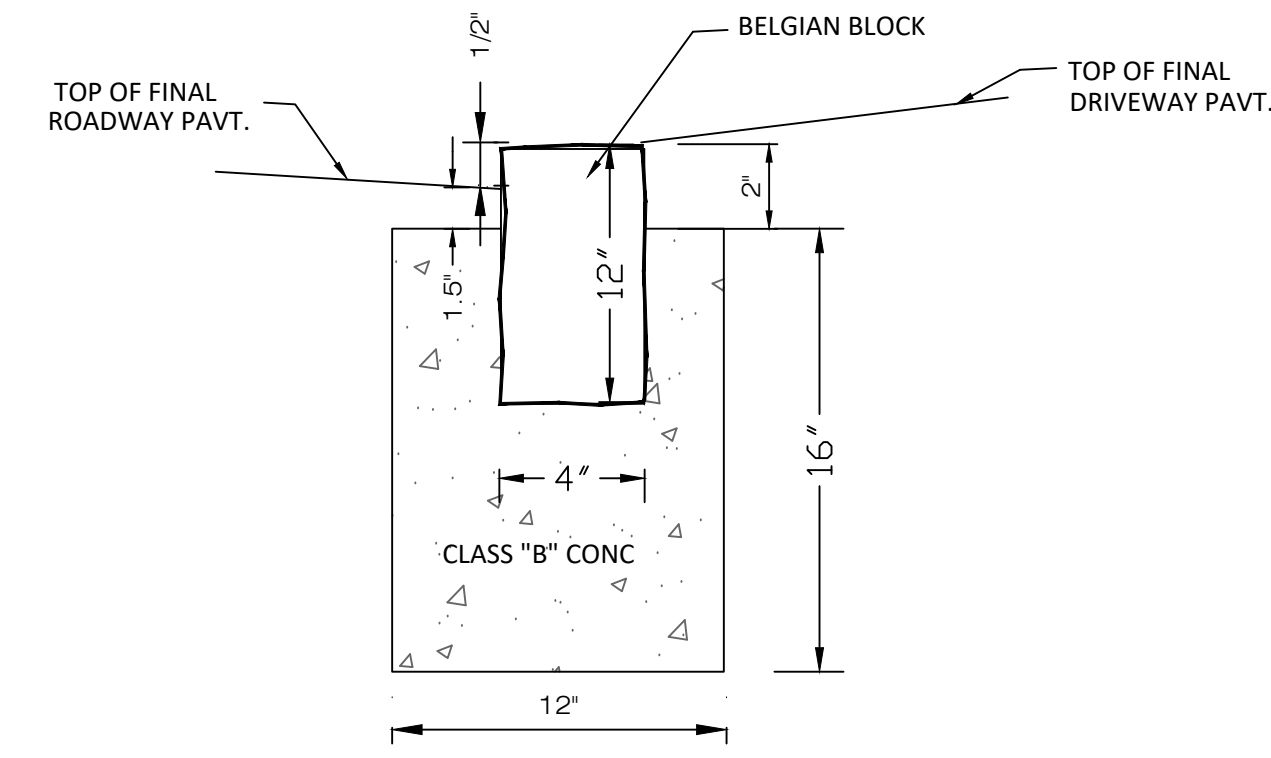
PRO SERIES CHANNEL DRAIN SYSTEM
5" PRO SERIES INSTALLATION DETAIL - LOAD CLASS 'A' & 'B' - 4" ENCASMENT REBAR SUSPENSION



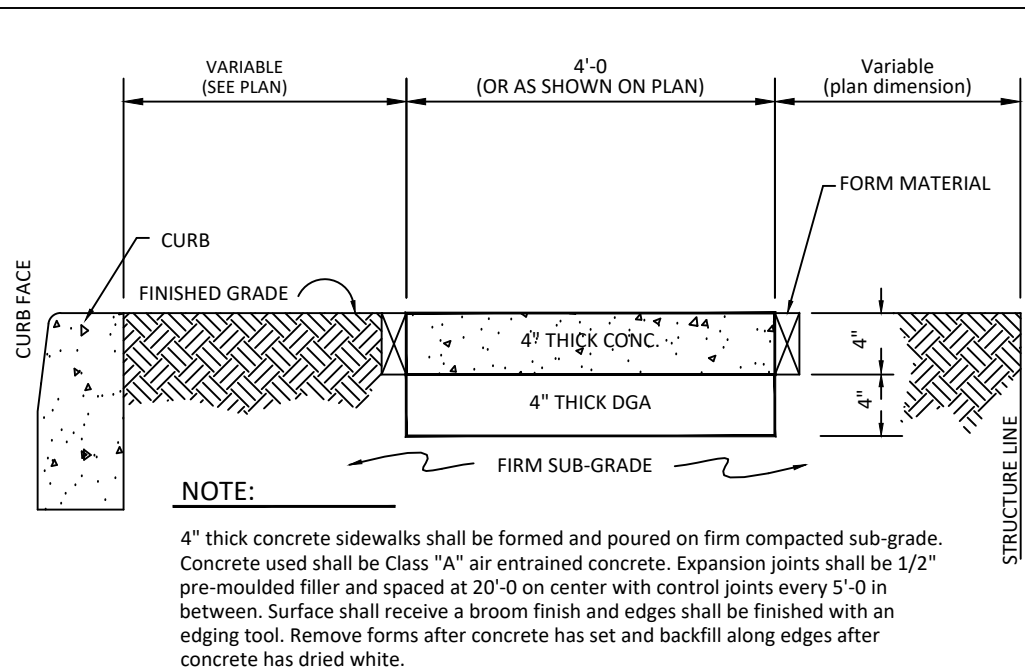
<p>AWZ ENGINEERING, INC. ENGINEERS • SCIENTISTS • CONSULTANTS Main Office: 150 River Road, Suite B3, Montville, NJ 07045 Pennsylvania Office: Scranton, PA 18504 Tel: 973-888-7080 Fax: 973-888-7079 www.awzengineering.com e-mail: info@awzengineering.com New Jersey Certificate of Authorization No.: 24GA28118400 Pennsylvania Certificate of Authority No.: 3771354</p>	<p>ADNAN A. KHAN, P.E., C.M.E. PROFESSIONAL ENGINEER <i>Adnan A. Khan</i> DATE: 12/28/22</p>	<p>NO. _____ REVISIONS _____ DATE: _____ BY: _____ APR: _____ DATE: 12/28/22</p>
<p>TAX LOT 16 39 SUSAN DRIVE TOWNSHIP OF CHATHAM MORRIS COUNTY, NEW JERSEY</p>	<p>BLOCK 20</p>	<p>JOB NUMBER: 22-0605</p> <p>SCALE: AS SHOWN</p>
<p>C-03 SHEET 3 OF 4</p>		



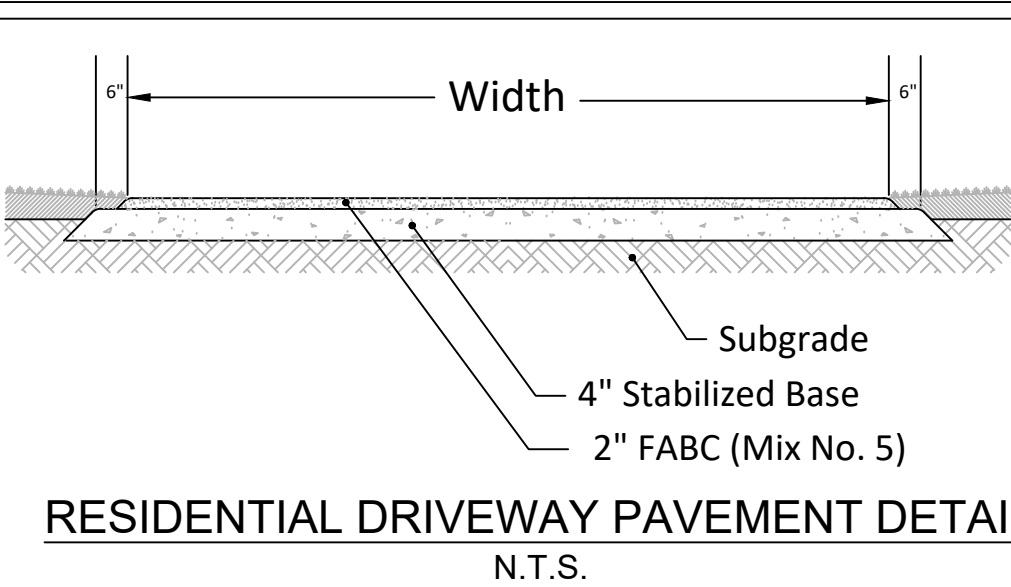
VERTICAL BELGIAN BLOCK CURB DETAIL
N.T.S.



DEPRESSED BELGIAN BLOCK CURB DETAIL
N.T.S.



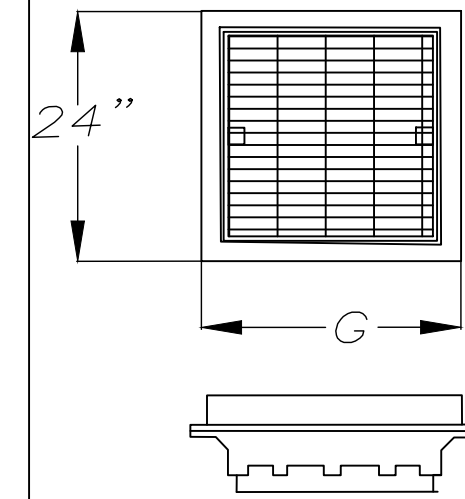
CONCRETE SIDEWALK DETAIL
NOT TO SCALE



RESIDENTIAL DRIVEWAY PAVEMENT DETAIL
N.T.S.

- NOTES:**
- Concrete to be NJDOT Class "B" (Air Entrained)
 - Transverse joints 1/2" wide shall be installed in the curb 20'-0" apart and shall be filled with preformed, bituminous impregnated fiber joint filler, complying with the requirements of AASHTO M-213, recessed 1/4" from the front face and top of the curb.

- NOTES:**
- ON TRANSITIONS FROM AND TO DROPPED CURB, USE ONE LARGE BLOCK SLOPED & CUT TO FIT
 - CURB IMMEDIATELY NEXT TO INLET CASTING MUST HAVE PREFORMED EXPANSION MATERIAL
 - CONCRETE JOINTS- 2 SAND/1 CEMENT

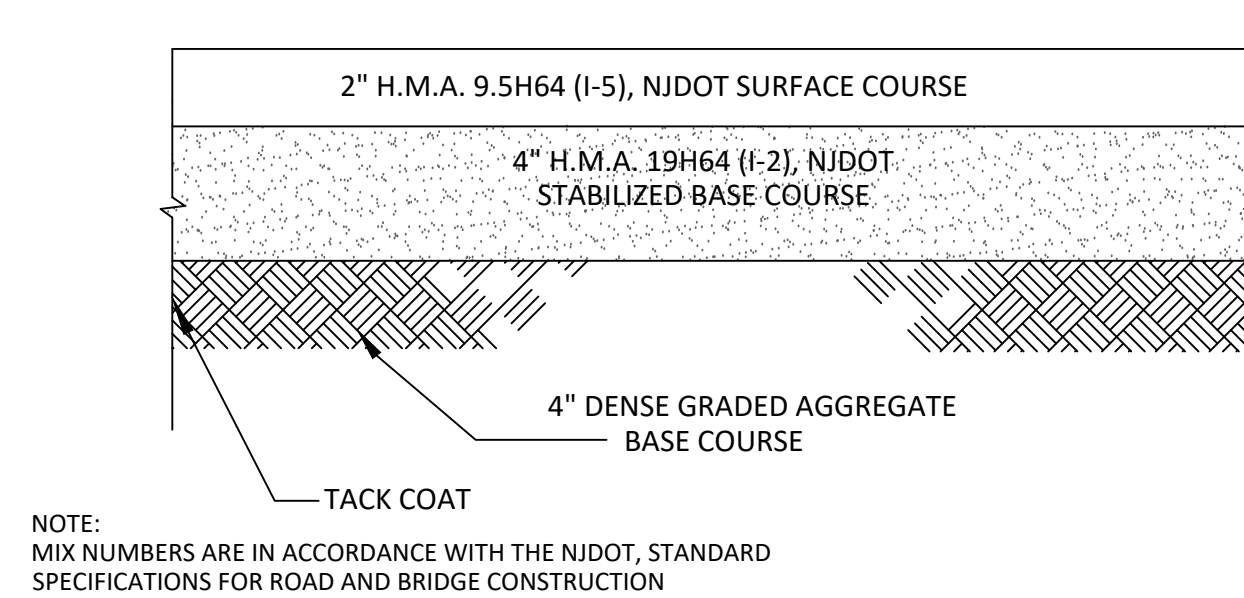


NYLOPLAST INLET STRUCTURE
N.T.S.

HANCOR - NYLOPLAST INLET				
A*	B*	2'x2'	2'x3'	
12"	4"-12"	24"	NA	
15"	4"-15"	24"	NA	
18"	4"-18"	24"	36"	
24"	4"-24"	24"	36"	
30"	4"-30"	24"	36"	

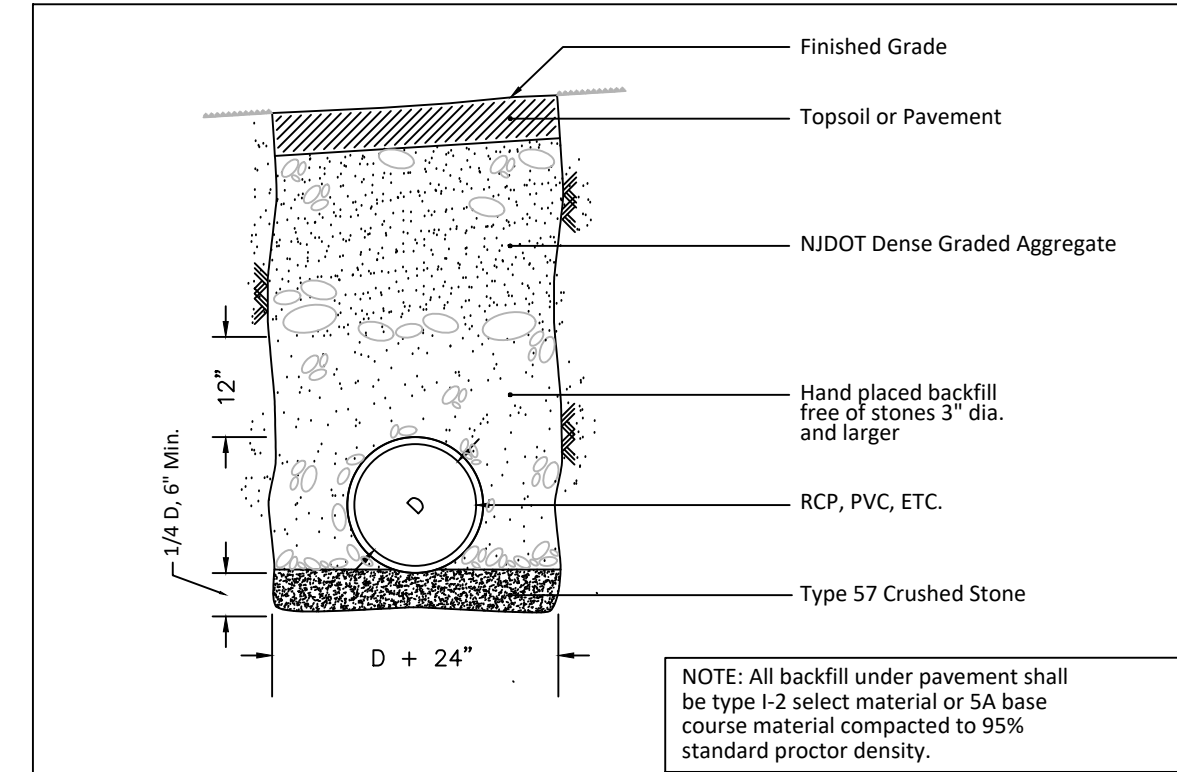
* NOMINAL SIZE
C = VARIABLE INVERT HEIGHT
D = VARIABLE OVERALL HEIGHT (10" MAXIMUM)
E = 12"-24" PIPE (6" MINIMUM)
F = 30" PIPE (10" MINIMUM)
F' = ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 359°

- 12" - 30" FRAMES, GRATES, & BASE PLATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
- DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS
- ALL ROAD & HIGHWAY GRATE OPTIONS SHALL MEET H-20 LOAD RATING

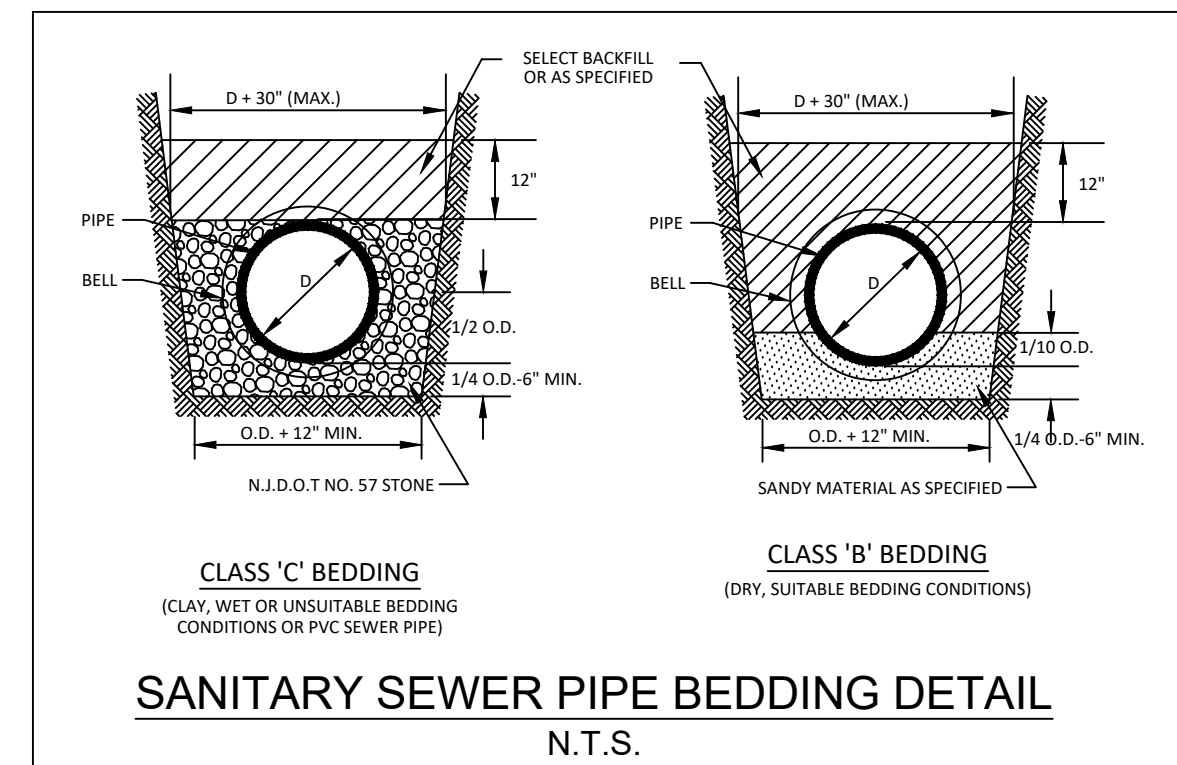


FULL DEPTH PAVEMENT RESTORATION DETAIL
(N.T.S.)

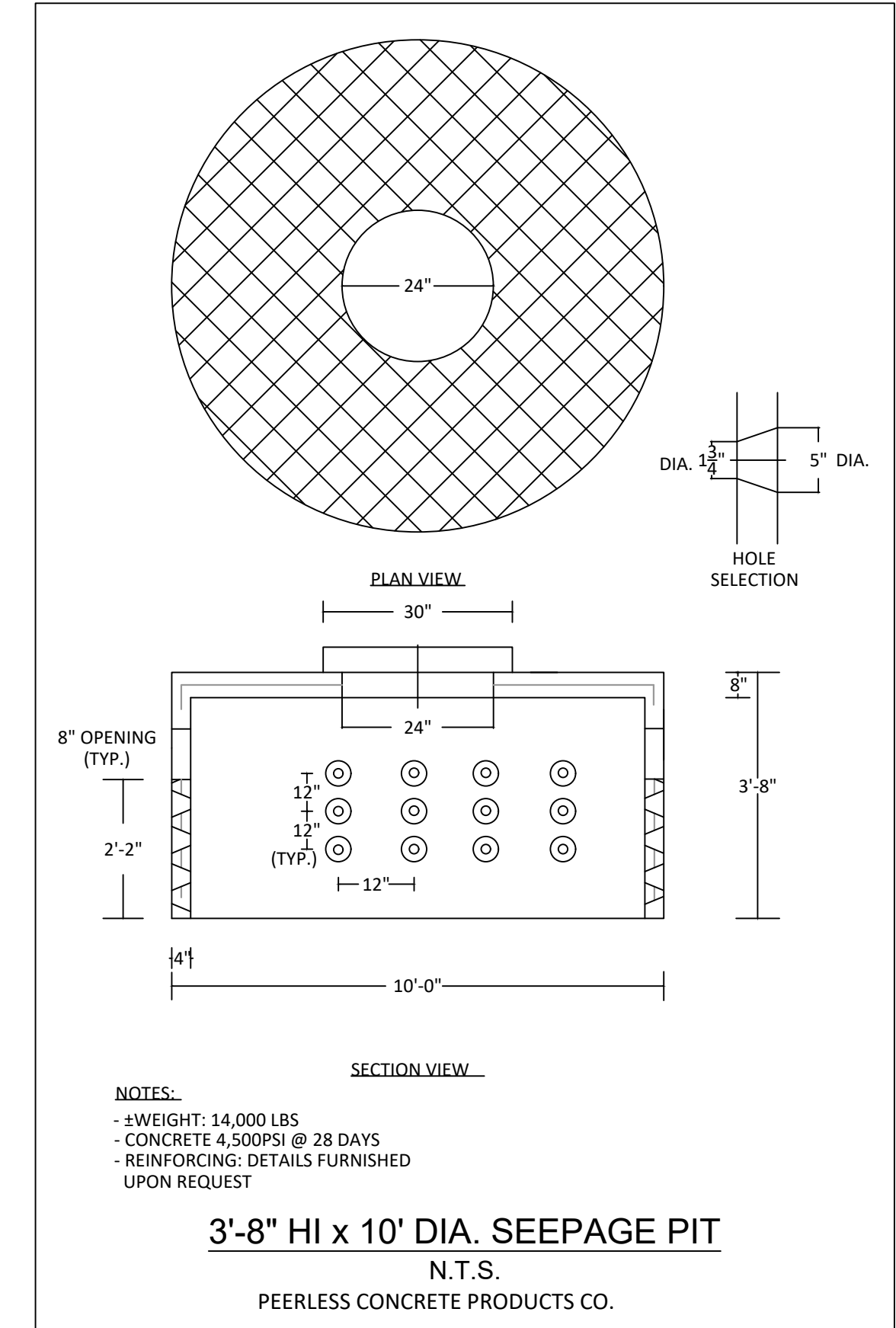
NOTE:
MIX NUMBERS ARE IN ACCORDANCE WITH THE NJDOT, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION



PIPE BEDDING AND BACKFILL DETAIL
N.T.S.



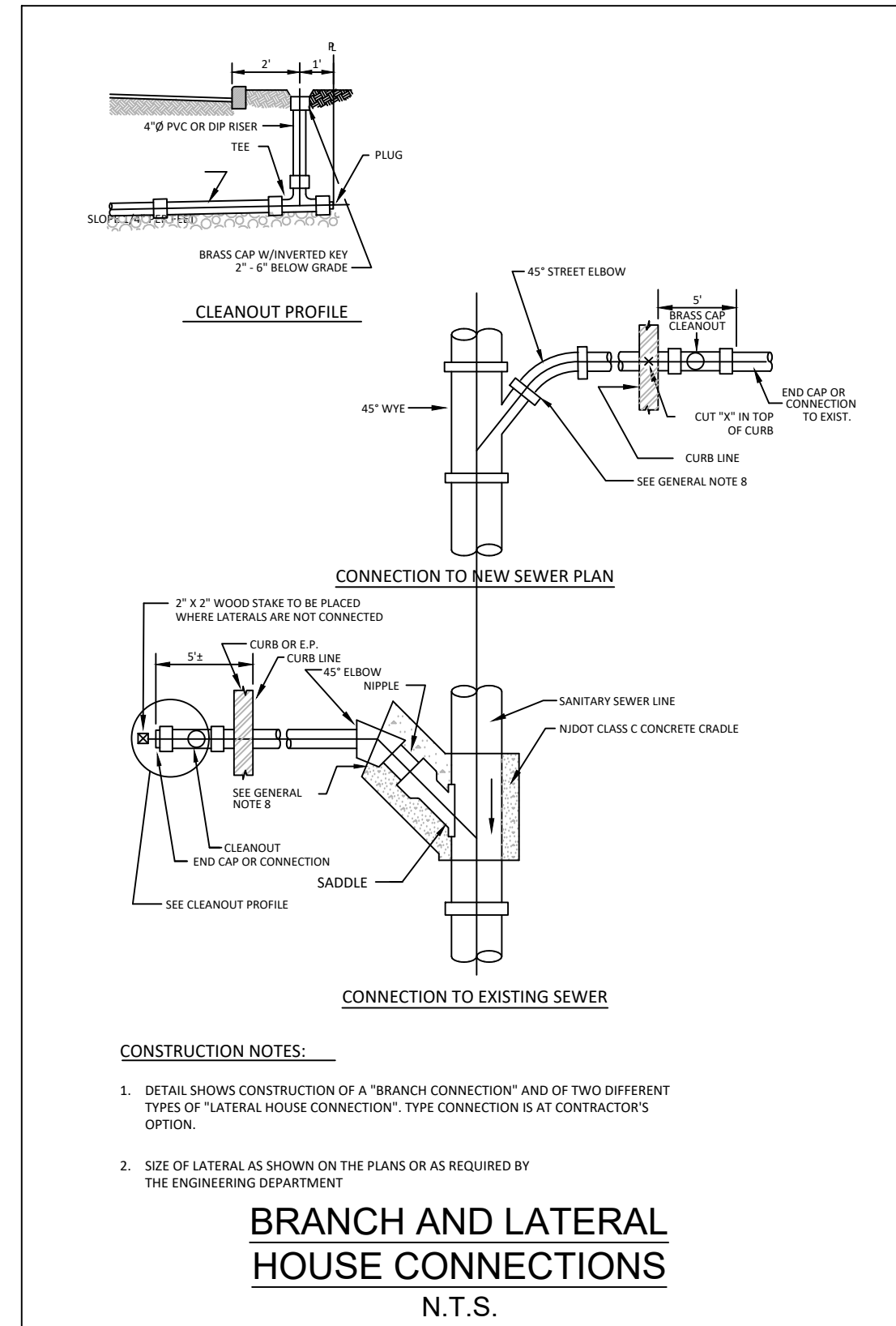
SANITARY SEWER PIPE BEDDING DETAIL
N.T.S.



3'-8" HI x 10' DIA. SEEPAGE PIT
N.T.S.
PEERLESS CONCRETE PRODUCTS CO.

NOTES:

- WEIGHT: 14,000 LBS
- CONCRETE 4,500PSI @ 28 DAYS
- REINFORCING: DETAILS FURNISHED UPON REQUEST



BRANCH AND LATERAL HOUSE CONNECTIONS
N.T.S.

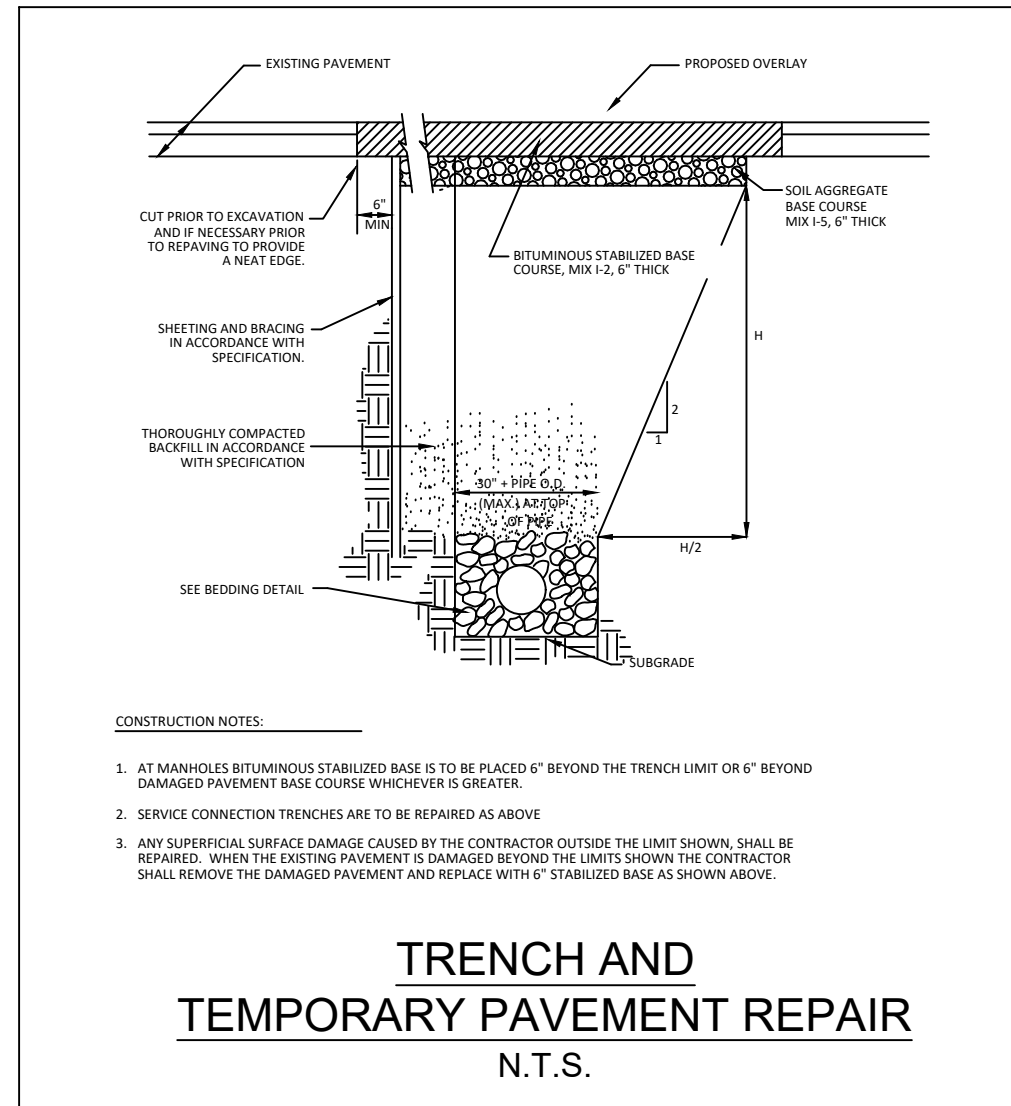
MAINTENANCE OF UNDERGROUND STORM FACILITIES:

UNDERGROUND STORM SYSTEM - The underground drainage system, including all pipes, manholes, catch basins, inlets and appurtenances must be inspected for clogging and excessive debris and sediment accumulation at least annually as well as after every storm exceeding 2 inches of rainfall. Sediment removal should take place when all runoff has drained from the conveyance network and the systems are reasonably dry. Disposal of debris, trash, sediment, and other waste material should be done at suitable disposal/recycling sites and in compliance with all applicable local, state, and federal waste regulations.

All structural components must be inspected for cracking, subsidence, breaching, wearing, and deterioration at least annually. The condition of surrounding and above lying materials shall be inspected for evidence of potential failures or deterioration.

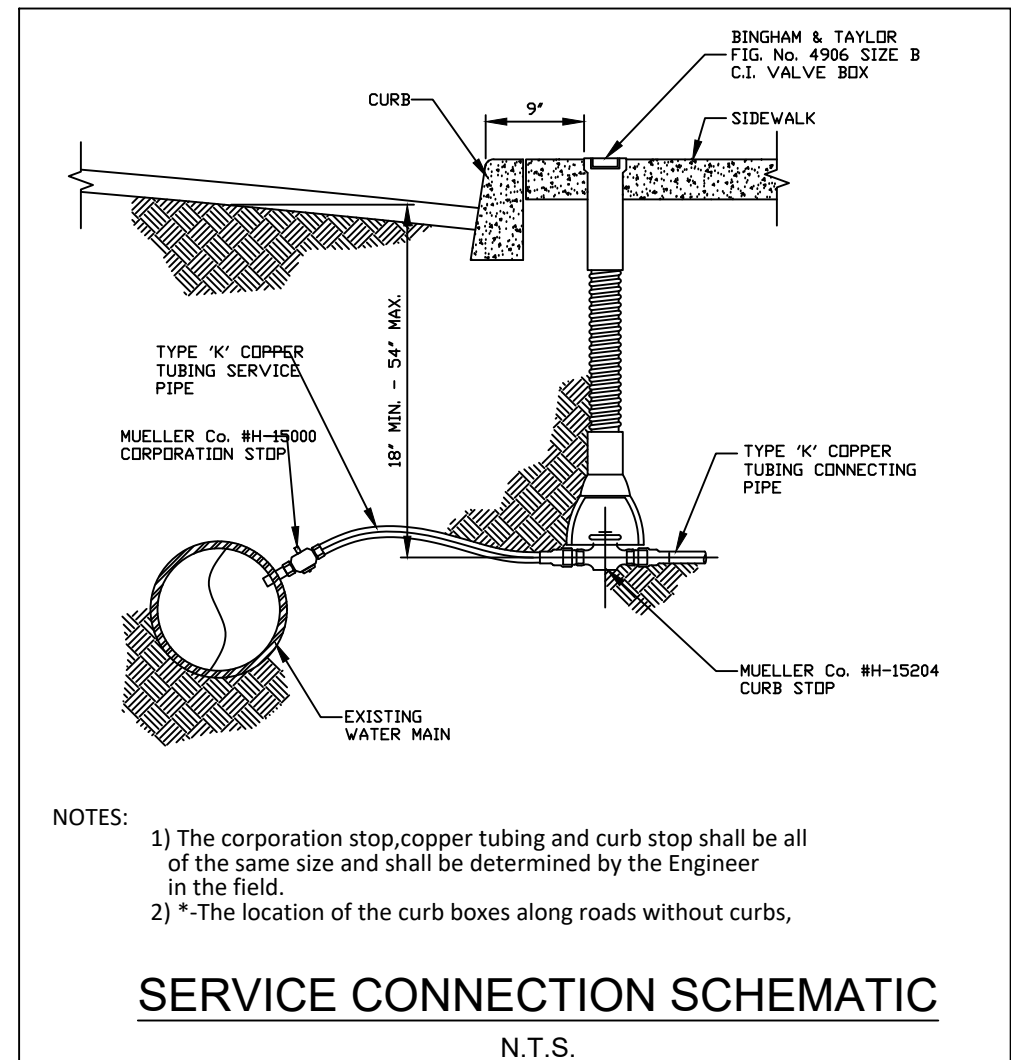
Two people will be needed to perform routine maintenance of the conveyance systems. The routine equipment to be utilized for the maintenance tasks include a jet vacuum vehicle, shovels, lighting equipment and a wheel barrel or truck for the hauling off of debris. No manufacturer's instructions or user manuals are available for maintenance of these components. Maintenance would only take place in the adjacent components of the system, i.e. the catch basins, pipes, and other units outside the seepage pit system. Water, mosquito control chemicals, and concrete repair materials may also be required depending on the condition of the structure.

RESPONSIBLE PARTY FOR ALL STORM STRUCTURE MAINTENANCE
See maintenance agreement for information regarding responsible parties for all storm structure maintenance.



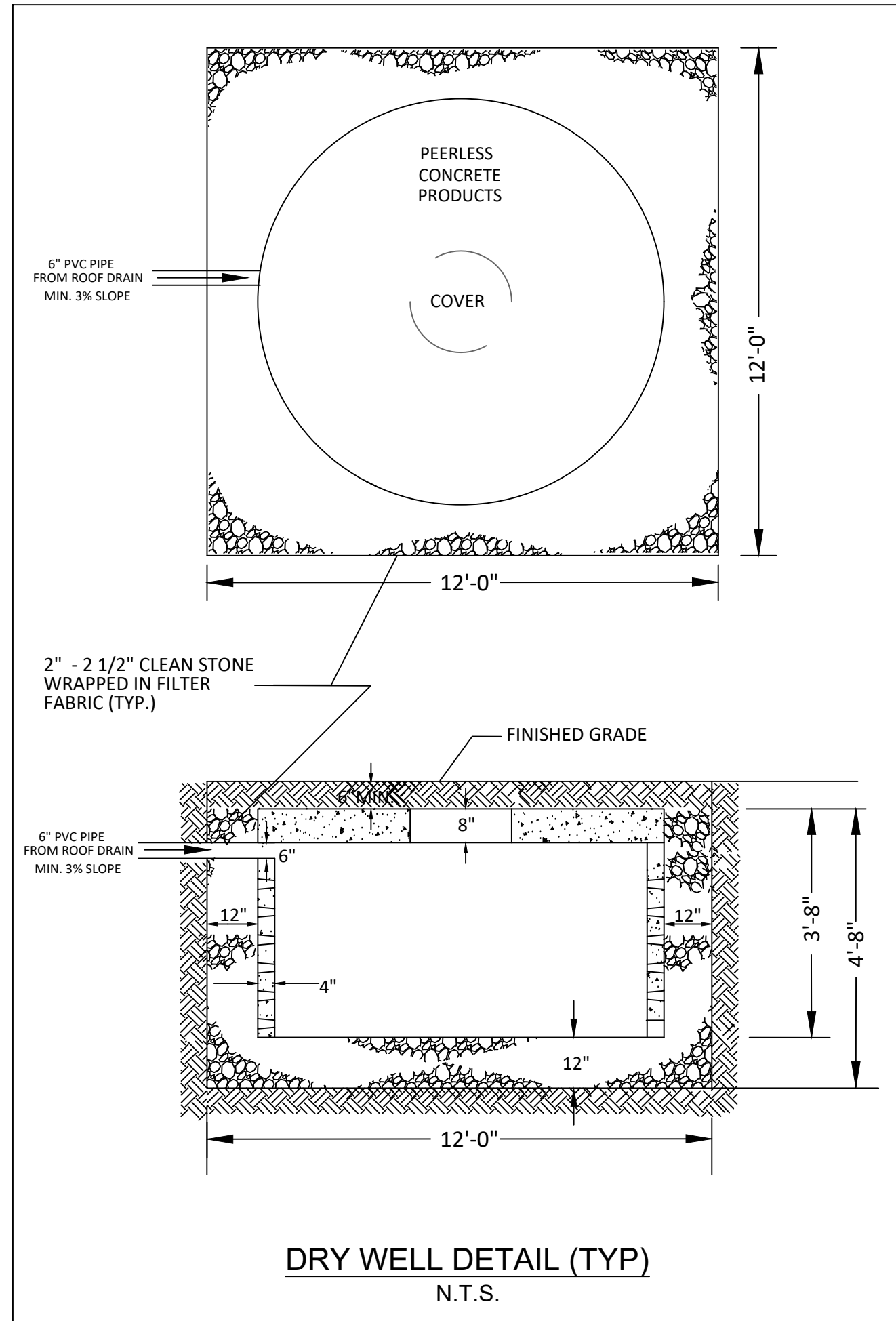
TRENCH AND TEMPORARY PAVEMENT REPAIR
N.T.S.

- CONSTRUCTION NOTES:**
- AT MANHOLES BITUMINOUS STABILIZED BASE IS TO BE PLACED 6" BEYOND THE TRENCH LIMIT OR 6" BEYOND DAMAGED PAVEMENT BASE COURSE WHEN CURB IS SELECTED.
 - SERVICE CONNECTION TRENCHES ARE TO BE REPAIRED AS ABOVE
 - ANY SUPERFICIAL SURFACE DAMAGE CAUSED BY THE CONTRACTOR OUTSIDE THE LIMIT SHOWN, SHALL BE REPAIRED. WHEN THE EXISTING PAVEMENT IS DAMAGED BEFORE THE LIMITS SHOWN THE CONTRACTOR SHALL REMOVE THE DAMAGED PAVEMENT AND REPLACE WITH 6" STABILIZED BASE AS SHOWN ABOVE.

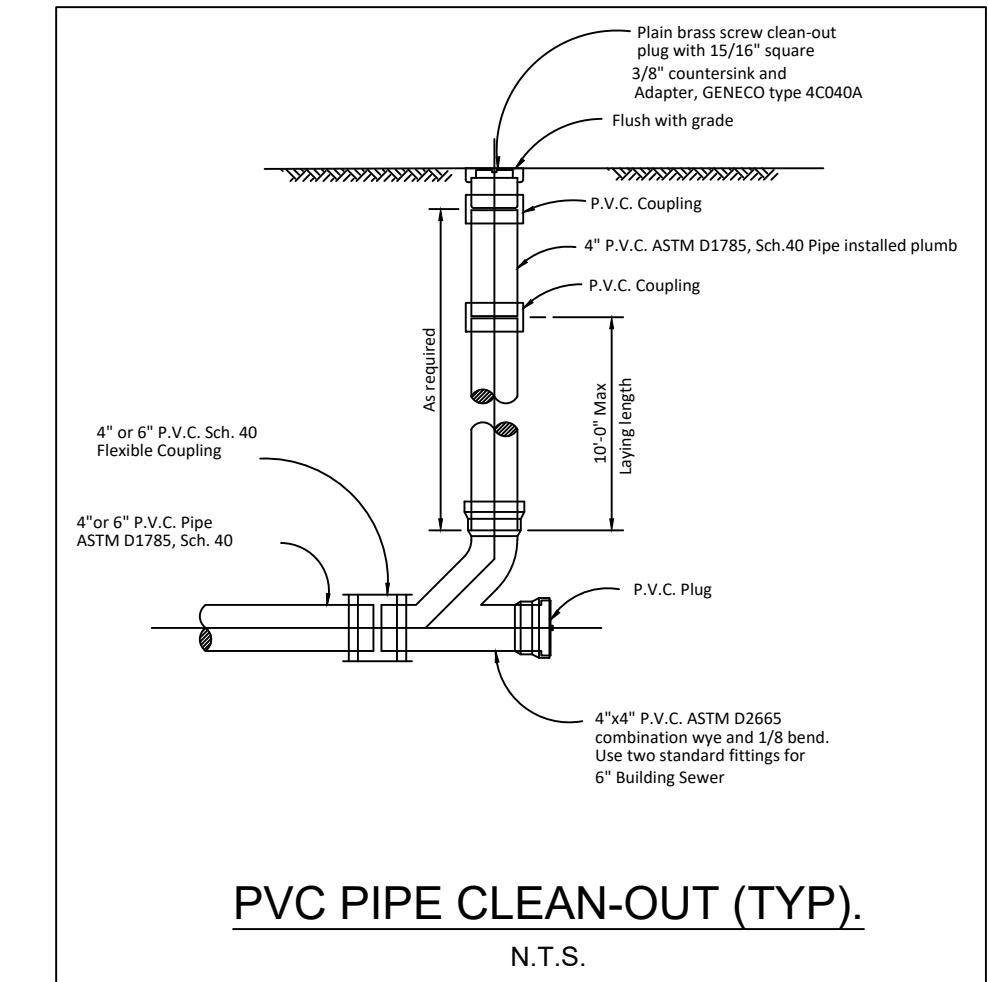


SERVICE CONNECTION SCHEMATIC
N.T.S.

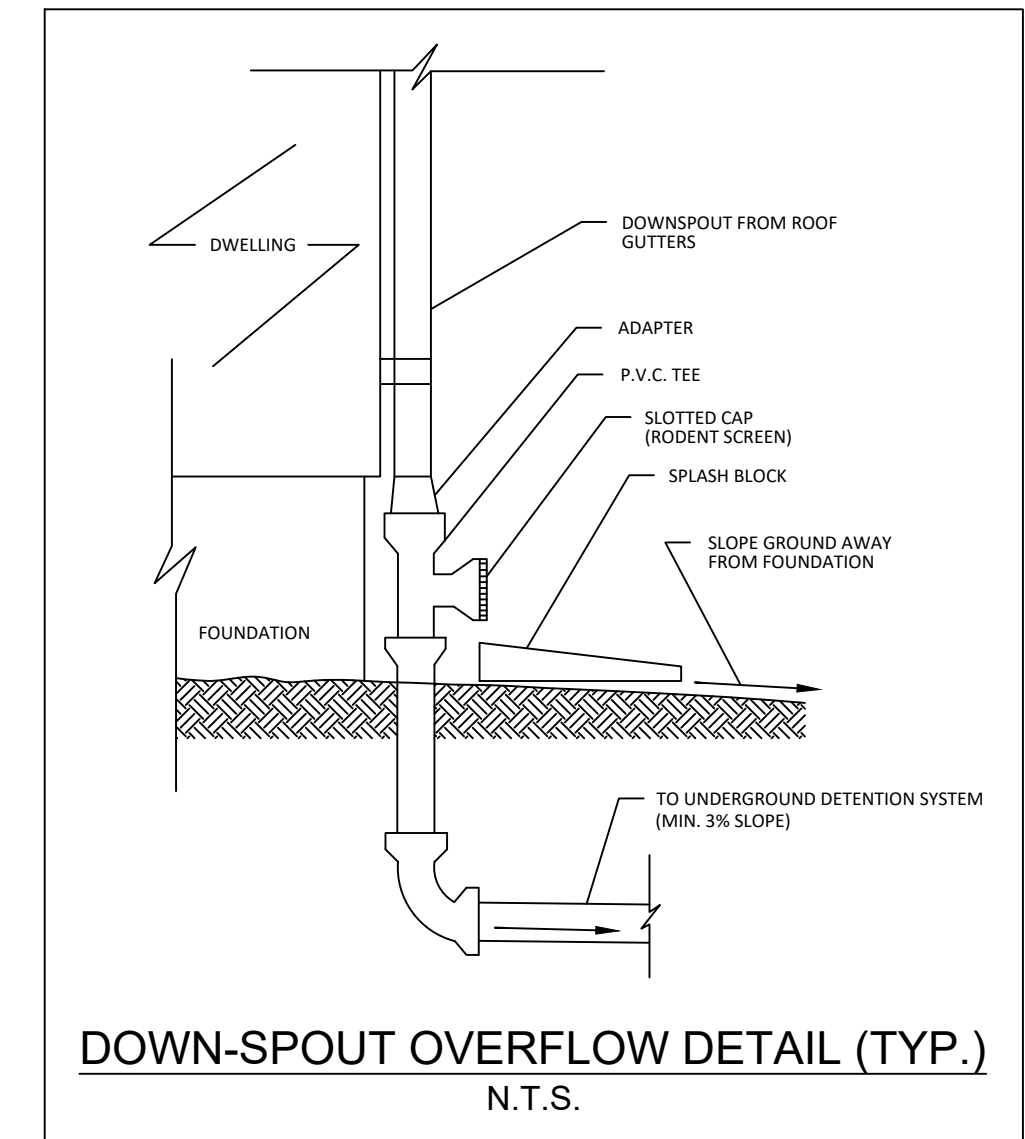
- NOTES:**
- The corporation stop, copper tubing and curb stop shall be all of the same size and shall be determined by the Engineer in the field.
 - *The location of the curb boxes along roads without curbs,



DRY WELL DETAIL (TYP)
N.T.S.



PVC PIPE CLEAN-OUT (TYP)
N.T.S.



DOWN-SPOUT OVERFLOW DETAIL (TYP.)
N.T.S.

TAX LOT 16 **BLOCK 20**

39 SUSAN DRIVE
TOWNSHIP OF CHATHAM
MORRIS COUNTY, NEW JERSEY

CONSTRUCTION DETAILS

JOB NUMBER:
22-0605

SCALE: AS SHOWN

C-04
SHEET 4 OF 4

ADNAN A. KHAN, P.E., C.M.E.
PROFESSIONAL ENGINEER

DESIGNED BY: AK **DATE:** 12/28/22

APPROVED BY: AK **DATE:** 07/06/23

REVISIONS

NO. DESCRIPTION DATE: BY: APE

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