

CONSTRUCTION NOTES:

- EXISTING UTILITIES AND UNDERGROUND STRUCTURES SHOWN ON THE PLAN ARE BASED UPON THE BEST AVAILABLE PUBLIC RECORDS, PRIVATE RECORDS AS SUPPLIED BY THE OWNER, OR DATA OBTAINED VERBALLY FROM OWNERS OR OFFICIALS FAMILIAR WITH THE PROJECT SITE. NEITHER THE OWNER NOR THE ENGINEER GUARANTEES ACCURACY OR COMPLETENESS OF THIS INFORMATION AND ASSUME NO RESPONSIBILITY FOR IMPROPER LOCATIONS ON THE CONSTRUCTION PLANS. OTHER UNDERGROUND FACILITIES NOT SHOWN ON THE DRAWINGS MAY BE ENCOUNTERED DURING THE COURSE OF THE WORK. ALL INVERT ELEVATIONS SHOWN ON THE DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- IF CHANGED CONDITIONS ARE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF EITHER (1) PREEXISTING SUBSURFACE CONDITIONS DIFFERING FROM THOSE INDICATED IN THE PLANS, OR (2) PREEXISTING UNKNOWN SUBSURFACE CONDITIONS OF AN UNUSUAL NATURE, DIFFERING MATERIALLY FROM THOSE ORIGINALLY ENCOUNTERED AND GENERALLY RECOGNIZED AS INHERENT IN THE CHARACTER OF THE WORK PROVIDED FOR IN THE CONTRACT. THE CONTRACTOR AND/OR OWNER SHALL MAKE NO CLAIMS TO THE ENGINEER FOR RECOMPENSATION FOR EXTRA WORK RESULTING FROM CHANGED CONDITIONS UNLESS THE ENGINEER HAS APPROVED THE WORK IN WRITING.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY PERMITS AND APPROVED CITY ORDINANCES AND SHALL POST SUCH DOCUMENTS AT VISIBLE LOCATIONS AND MAINTAIN UPDATED DOCUMENTATION ACCORDINGLY.
- CONTRACTOR SHALL CALL THE UTILITIES UNDERGROUND LOCATION CENTER FOR FIELD LOCATIONS OF ALL UTILITIES AND SHALL NOT BEGIN EXCAVATION UNTIL ALL KNOWN UNDERGROUND FACILITIES IN THE VICINITY OF THE PROPOSED WORK HAVE BEEN LOCATED AND MARKED. IF THE UTILITY IS NOT A SUBSCRIBER OF THE UTILITIES UNDERGROUND LOCATION CENTER, THEN THE CONTRACTOR SHALL GIVE NOTICE TO THAT UTILITY.
- THE CONTRACTOR IS RESPONSIBLE FOR REVIEW OF ALL INFORMATION PROVIDED BY UTILITY PURVEYORS, AND CITY OR STATE RECORDS RELATED TO THE EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR AVOIDING DAMAGE TO THESE FACILITIES AND SHALL RESTORE ALL UTILITIES AT CONTRACTORS EXPENSE.
- CONTRACTOR SHALL NOTIFY ALL UTILITY SERVICES FOR TEMPORARY SHUT OFF AS REQUIRED. CONTRACTOR SHALL MAINTAIN AND PROTECT SERVICES AGAINST DAMAGE DURING DEMOLITION OPERATIONS.
- NO PUBLIC WAYS OR WALKS MAY BE OBSTRUCTED WITHOUT THE WRITTEN PERMISSION OF GOVERNING AUTHORITIES AND OF THE OWNER. WHERE ROUTES ARE PERMITTED TO BE CLOSED, PROVIDE ALTERNATE ROUTES AND SIGNAGE IF REQUIRED.
- WET DEBRIS WITH WATER AS NECESSARY TO LIMIT DUST TO LOWEST PRACTICAL LEVEL. DO NOT WET TO THE EXTENT OF FLOODING, CONTAMINATED RUNOFF, OR ICING.
- ANY PORTIONS OF PAVEMENT TO BE REMOVED MUST BE SEPARATED BY MAKING A NEAT VERTICAL SAW CUT ALONG THE BOUNDARIES OF THE AREA TO BE REMOVED. MAKE CUTS AT CLOSEST PAVING JOINT.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL LABOR, EQUIPMENT, AND SERVICES TO PROPERLY EXECUTE THE DEMOLITION AND REMOVAL WORK INDICATED ON THESE CONSTRUCTION DOCUMENTS
- ALL DEMOLITION WORK SHALL BE PERFORMED WITH MINIMUM DAMAGE TO THE EXISTING WORK TO REMAIN. IT SHALL BE RECOGNIZED THAT THE UTMOST CARE BE TAKEN WHEN PERFORMING THE DEMOLITION WORK. PROVIDE BARRICADES, BARRIERS, AND SHORING WHERE REQUIRED TO PROTECT THE PUBLIC, PERSONNEL, CONSTRUCTION, AND VEGETATION TO REMAIN. COMPLY WITH ALL STATE AND LOCAL AGENCY REQUIREMENTS.

- PROVISIONS SHALL BE MADE TO ALLEVIATE THE SPREAD OF DEBRIS, DIRT, AND DUST TO THE ADJACENT PROPERTIES. THE PROPERTY SHALL BE KEPT AS CLEAN AS POSSIBLE AT ALL TIMES. MAINTAIN HAULING ROUTES CLEAN AND FREE OF ANY DEBRIS RESULTING FROM DEMOLITION WORK ON THIS PROJECT. ANY HAZARDOUS MATERIAL REMOVAL, SUCH AS ASBESTOS REMOVAL, SHALL BE PERFORMED PRIOR TO ANY DEMOLITION ACTIVITY. THE HAZARDOUS MATERIAL REMOVAL SHALL BE PERFORMED BY A LICENSED ABATEMENT COMPANY.
- THE REFUSE RESULTING FROM ANY CLEARING AND GRUBBING AND ALL DEBRIS AND MATERIALS FROM THE STRUCTURE(S) TO BE DEMOLISHED SHALL BE DISPOSED OF BY THE CONTRACTOR IN A MANNER CONSISTENT WITH ALL GOVERNMENT REGULATIONS. IN NO CASE SHALL REFUSE MATERIAL BE LEFT ON THE PROJECT SITE, PUSHED ONTO ADJUTING PRIVATE PROPERTIES, OR BE BURIED IN EMBANKMENTS OR TRENCHES ON THE PROJECT SITE. DEBRIS SHALL NOT BE DEPOSITED IN ANY STREAM, LAKE, WETLAND, BODY OF WATER, OR IN ANY STREET OR ALLEY, OR UPON ANY PRIVATE PROPERTY EXCEPT BY WRITTEN CONSENT OF THE PRIVATE PROPERTY OWNER. NO RECLAIMED LUMBER OR MATERIALS SHALL BE RE-USED EXCEPT AS SPECIFICALLY APPROVED BY THE ARCHITECT OR OWNER.
- WHERE DEMOLITION AND CUTTING WORK HAS OCCURRED OR WHERE EXISTING SURFACES, MATERIALS, OR OTHER ITEMS HAVE BEEN DAMAGED OR DISTURBED AS A RESULT OF THE CONTRACTED WORK, THE SAID SURFACES AND AREAS SHALL BE CAREFULLY CLOSED UP, PATCHED, REPAIRED, FINISHED, OR RESTORED AS REQUIRED TO BE CONTIGUOUS TO EXISTING SURROUNDING SURFACES.
- ALL MECHANICAL, ELECTRICAL, AND PLUMBING DEMOLITION, INCLUDING GAS LINE REMOVAL IS TO BE PERFORMED BY A CONTRACTOR OR SUB-CONTRACTOR LICENSED IN THE PARTICULAR TRADE.

TOWN NOTES:

THIS PLAN DOES NOT CONFLICT WITH THE COUNTY OFFICIAL MAP AND HAS BEEN APPROVED IN THE MANNER SPECIFIED BY SECTION 239&L OF THE GENERAL MUNICIPAL LAW OF THE STATE OF NEW YORK

SITE/CIVIL CONSTRUCTION SEQUENCING:

- INSTALL SILT FENCE, EROSION CONTROL, AND CONSTRUCTION FENCE
- PERFORM DEMOLITION AS PER SPECIFICATIONS
- REMOVE ALL DEBRIS AS PER SPECIFICATION
- INSTALL ALL ADDITIONAL EROSION CONTROL AND STABILIZATION OF DEMO AREAS
- REMOVE CONSTRUCTION FENCING, ENSURE PROPER MAINTENANCE OF SILT FENCING
- INSTALL SUBSURFACE UTILITIES (SEPTIC SYSTEM) & ROUGH SITEWORK (MINOR REGRADE) PROVIDE TEMP. SEEDING / SODDING & EROSION CONTROL MEASURES
- CONSTRUCTION OF SURFACE SITE STRUCTURES, MANHOLES & UTILIZATION OF TEMPORARY STAGING AREA
- REMOVE EXISTING PARKING / STAGING AREA
- INSTALL SITE WALLS & PERFORM FINISH GRADING
- REMOVE TEMP. EROSION CONTROL MEASURES, INSTALL NEW PAVEMENT & PERMANENT LANDSCAPING, SITE STABILIZATION (80% UNIFORM DENSITY OF VEGETATION) MUST BE ACHIEVED PRIOR TO REMOVING TEMPORARY EROSION CONTROL MEASURES.

DRAWING LIST

C-001	TITLE PAGE & NOTES
C-010	ZONING AND SETBACKS
C-020	DEMO AND EROSION CONTROL PLAN
C-100	GRADING AND SITE PLAN
C-110	SUBSURFACE AND UTILITIES
C-200	SEPTIC DETAILS
C-210	CIVIL DETAILS
C-220	TYPICAL CULTEC DETAILS
C-300	PROFILES
C-400	EROSION CONTROL DETAILS

SANITARY SEWER LINE REQUIREMENTS

- CLEANOUTS SHALL BE PROVIDED ON SEWER LINES WHEREVER A GRADE CHANGE OR ALIGNMENT CHANGE IS MADE. (SEE CLEANOUT DETAIL FOR MORE INFO)
- SEWER LINES SHALL BE SEPARATED FROM POTABLE WATER LINES BY A MINIMUM OF 10' HORIZONTAL.
- SEWER LINES CROSSING POTABLE WATER LINES MUST BE LAID A MINIMUM OF 18" BELOW WATER LINES. WATER LINE JOINTS MUST BE MINIMUM 10' FROM POINT OF CROSSING. SEWER LINES ARE TO BE CONSTRUCTED TO STANDARDS EQUIVALENT TO WATER MAIN SPECIFICATIONS AND SHALL BE PRESSURE TESTED PRIOR TO BACKFILLING.
- GRAVITY LINES SHALL BE A MINIMUM OF 4" Ø.
- LINES MUST BE OF CAST-IRON PIPE FOR A MINIMUM DISTANCE OF 2' BEYOND FOUNDATION WALL.
- GRAVITY LINES TO BE PITCHED MINIMUM 1/4" VERTICAL PER 1' HORIZONTAL.
- TRENCHES ARE TO BE FIRMLY TAMPED BY HAND ABOUT THE PIPE.

SCOPE OF WORK

THE SCOPE OF WORK IS TO CONSTRUCT A NEW SINGLE-FAMILY DWELLING, A NEW DRIVEWAY, A NEW STORM WATER MANAGEMENT SYSTEM, AND A NEW SEPTIC SYSTEM IN SUPPORT OF THE NEW DWELLING ARE PROPOSED AT THE PROJECT ADDRESS.

PROPERTY AND OWNER INFORMATION

OWNER: PAOLA CORNIELLE
CORNIELLE REAL ESTATE ENTERPRISES, LLC
1050 ROUTE 9W NYACK, NY 10960

SECTION: 71.09
BLOCK: 1
LOT: 28

TOTAL AREA: 49,730 SF (1.14 ACRES)
ZONE: R-22
GROUP: 1 - SINGLE FAMILY DETACHED RESIDENCES
USE: SINGLE FAMILY DETACHED RESIDENCE

BULK REGULATIONS:	REG	MAX FAR	MIN LOT AREA	WIDTH	FRONTAGE	FRONT YARD	SIDE YARD	TOTAL SIDE YARD	REAR YARD	BLDG HEIGHT
REQUIRED	0.20		22,500 SF	125	75	40'	25'	60'	45'	9'7" = 18'-9"
EXISTING	NA		45,356 SF	100	100'	NA	NA	NA	NA	NA
PROPOSED	0.07		45,356 SF	100	100'	92.1'	25'	60'	311.5'	23'-11" *

CALCULATION NOTES:

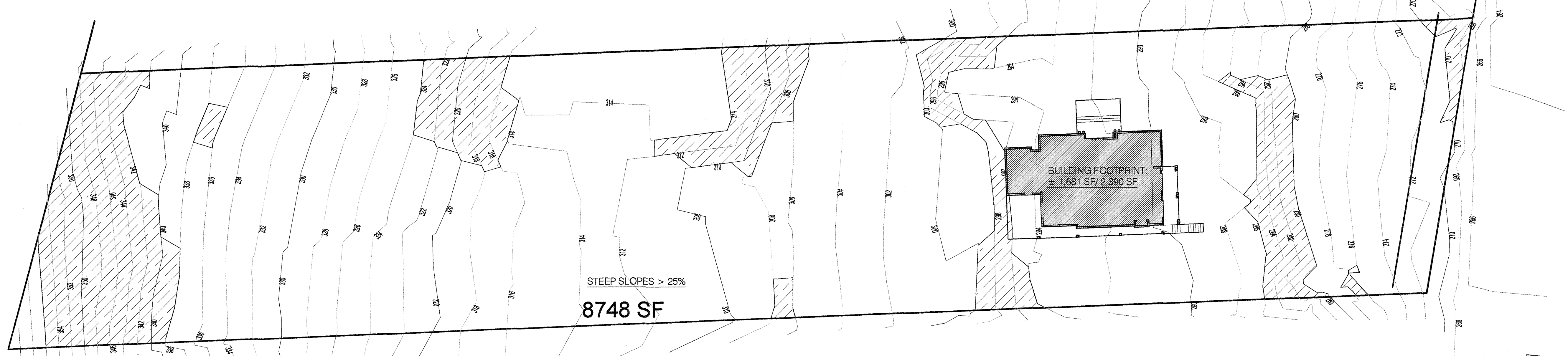
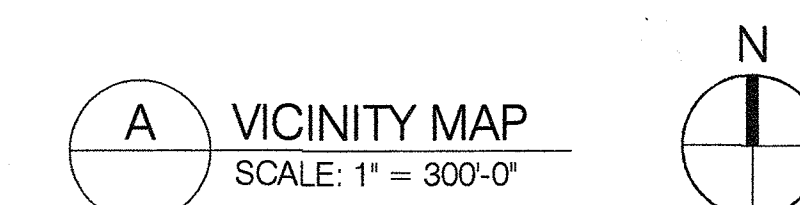
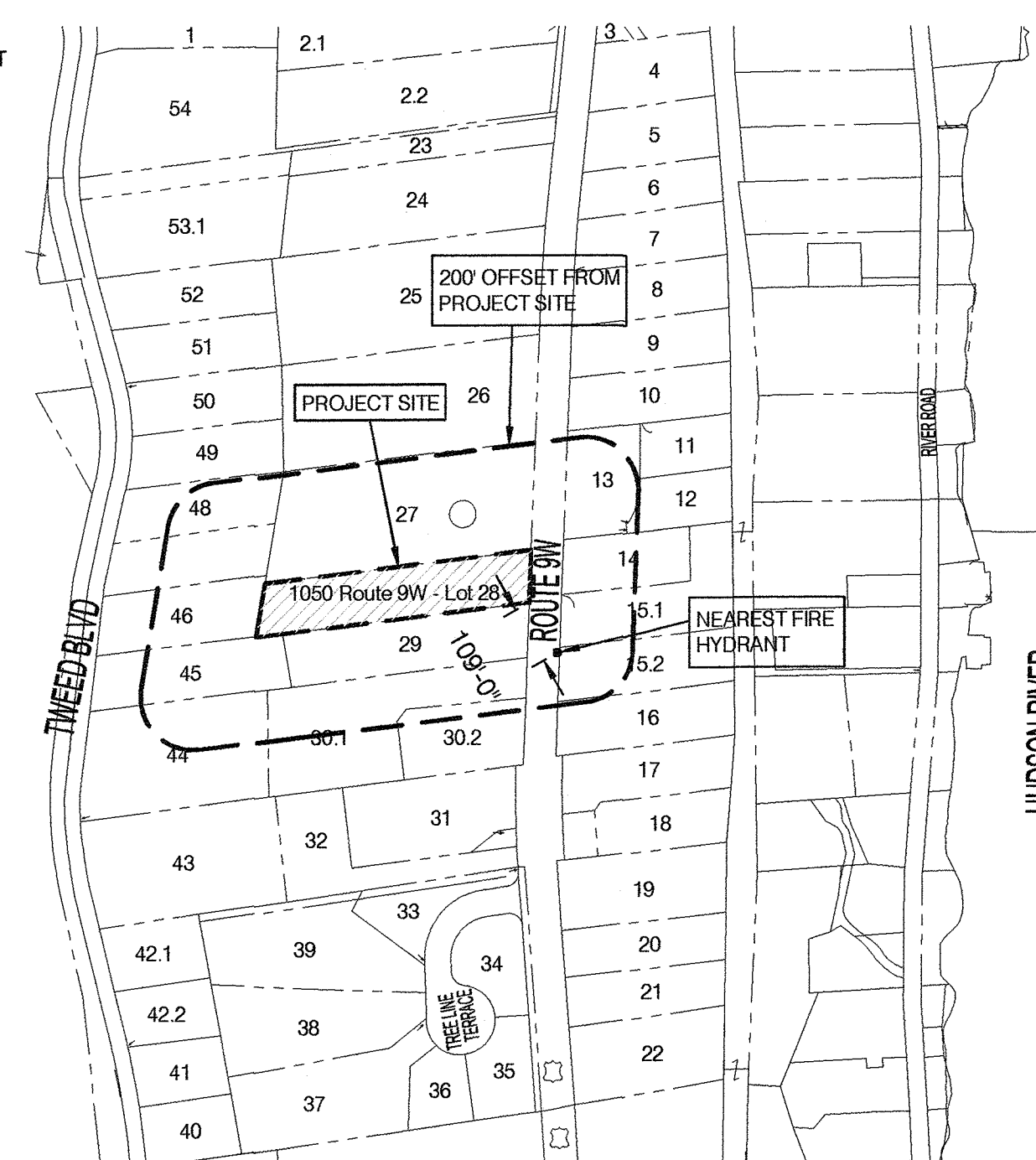
- AREA OF SLOPE > 25% = 8,748 SF
- LOT AREA CALC: TOTAL AREA * (1 - AREA > 25% SLOPE)
49,730 - 8,748 = 40,982 SF
- BUILDING HEIGHT 9' PER FT FROM PL * 25' SIDE YARD = 18'-9"
- FAR CALC = 3131 SF FLOOR AREA / LOT AREA
= 3,131 / 45,356 = 7.0 %

MUNICIPAL NOTES

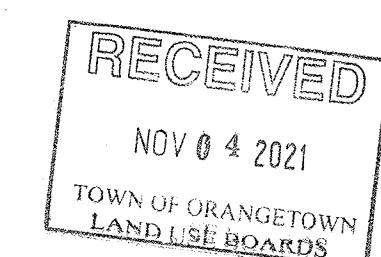
- AT LEAST ONE WEEK PRIOR TO THE COMMENCEMENT OF ANY WORK, INCLUDING THE INSTALLATION OF EROSION CONTROL DEVICES OR THE REMOVAL OF TREES AND VEGETATION, A PRE-CONSTRUCTION MEETING MUST BE HELD WITH THE TOWN OF ORANGETOWN DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND ENGINEERING, SUPERINTENDENT OF HIGHWAYS AND THE OFFICE OF BUILDING, ZONING AND PLANNING ADMINISTRATION AND ENFORCEMENT. IT IS THE RESPONSIBILITY AND OBLIGATION OF THE PROPERTY OWNER TO ARRANGE SUCH A MEETING.
- STORMWATER MANAGEMENT PHASE II REGULATIONS: ADDITIONAL CERTIFICATION, BY AN APPROPRIATE LICENSED OR CERTIFIED DESIGN PROFESSIONAL SHALL BE REQUIRED FOR ALL MATTERS BEFORE THE PLANNING BOARD INDICATING THAT THE DRAWINGS AND PROJECT ARE IN COMPLIANCE WITH THE STORMWATER MANAGEMENT PHASE II REGULATIONS.
- ALL OUTDOOR CONSTRUCTION ACTIVITIES, INCLUDING SITE CLEARING OPERATIONS IF APPLICABLE, SHALL TAKE PLACE BETWEEN THE HOURS OF 7:00 AM AND 7:00 PM, MONDAY THROUGH SATURDAY. NO SUCH ACTIVITIES SHALL TAKE PLACE ON SUNDAY OR A LEGAL HOLIDAY. THE SAME CRITERIA SHALL APPLY TO INDOOR CONSTRUCTION ACTIVITIES, EXCEPT THAT SUCH ACTIVITIES MAY TAKE PLACE BETWEEN THE HOURS OF 7:00 AM AND 10:00 PM.
- LOT DRAINAGE SHOWN SHALL CONSTITUTE EASEMENTS RUNNING WITH THE LAND AND ARE NOT TO BE DISTURBED.
- ALL UTILITIES, INCLUDING ELECTRIC AND TELEPHONE SERVICE, SHALL BE INSTALLED UNDERGROUND.

DISTRICT INFORMATION

SCHOOL	SOUTH ORANGE
AMBULANCE	NYACK
WATER	SUEZ
ZONING	R-22
POSTAL	10960
FIRE	NYACK JOINT FIRE DISTRICT
SEWER	ORANGETOWN



B STEEP SLOPES PLAN
SCALE: 1" = 20'-0"



REVISIONS:

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW, ARTICLE 145 FOR ANY PERSON UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER, TO ALTER THIS DRAWING IN ANY WAY.

THE ENTIRE CONTENTS OF THIS DOCUMENT INCLUDING ALL METHODS, PLANS, SPECIFICATIONS, DRAWINGS, SCHEDULES AND SPECIFICATIONS, AND ALL COPYRIGHTS THEREIN, ARE AND SHALL REMAIN THE SOLE AND EXCLUSIVE PROPERTY OF KRYPTON ENGINEERING, P.L.L.C. THE DOCUMENTS AND THEIR CONTENTS MAY NOT BE USED, PHOTOCOPIED OR REPRODUCED IN ANY MANNER, ELECTRONICALLY OR MECHANICALLY, WITHOUT THE EXPRESS WRITTEN CONSENT OF KRYPTON ENGINEERING, P.L.L.C. ORIGINAL SHEET SIZE 24X36"

PROJECT:
**1050 ROUTE 9W
NYACK, NY**

TITLE PAGE & NOTES

SEAL & SIGNATURE:



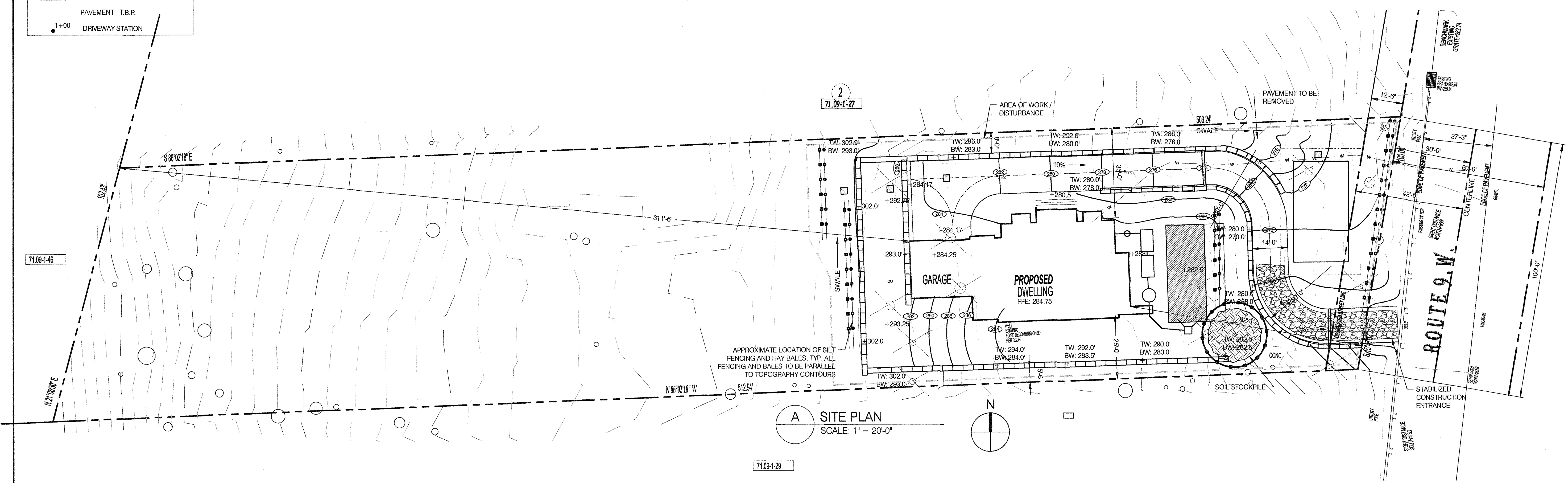
JOREL J. VACCARO, PE
NY PE 093362

DATE: 10/20/2021
PROJECT #: 19071
DRAWN/CHECKED: JJV
SCALE: AS NOTED
PAGE: 01 OF 10

C-001.00

LEGEND:

	PROPOSED SEPTIC COMPONENT
	PROPOSED BED SYSTEM
	IMPERIOUS ROOF
	BUILDING FOOTPRINT
	GRASS YARD
	EXISTING SITE STRUCTURE
	STORM CATCH BASIN
	ADJACENT BUILDING
	SEWER CLEANOUT
	PROPERTY LINE
	STORM LINE
	MAJOR TOPO CONTOUR
	MINOR TOPO CONTOUR
	PROPOSED TOPO CONTOUR
	OFFSET FROM COMPONENT
	AREA OF DISTURBANCE (20,520 SF (0.47 AC))
	SILT FENCE & HAY BALES
	EXISTING TREE TO REMAIN
	EXISTING TREE TO BE REMOVED
	NEW PAVEMENT
	PAVEMENT T.B.R.
	1+00 DRIVEWAY STATION



REVISIONS:

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW, ARTICLE 145 FOR ANY PERSON, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER, TO ALTER THIS DRAWING IN ANY WAY.

THE ENTIRE CONTENTS OF THIS DOCUMENT, INCLUDING ALL SKETCHES, PLANS, NOTES, DRAWINGS, SPECIFICATIONS, AND SPECIFICATIONS, AND ALL COPYRIGHTS THEREIN, ARE AND SHALL REMAIN THE SOLE AND EXCLUSIVE PROPERTY OF KRYPTON ENGINEERING, LLC. THE DOCUMENTS AND THEIR CONTENTS MAY NOT BE REPRODUCED OR REPRODUCED DIGITALLY, ELECTRONICALLY OR BY ANY OTHER MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF KRYPTON ENGINEERING, LLC. ORIGINAL SHEET SIZE: 24x36

PROJECT:
**1050 ROUTE 9W
NYACK, NY**

**ZONING, SETBACKS
& EROSION CONTROL**

SEAL & SIGNATURE:



JOREL J. VACCARO, PE
NY PE 093362

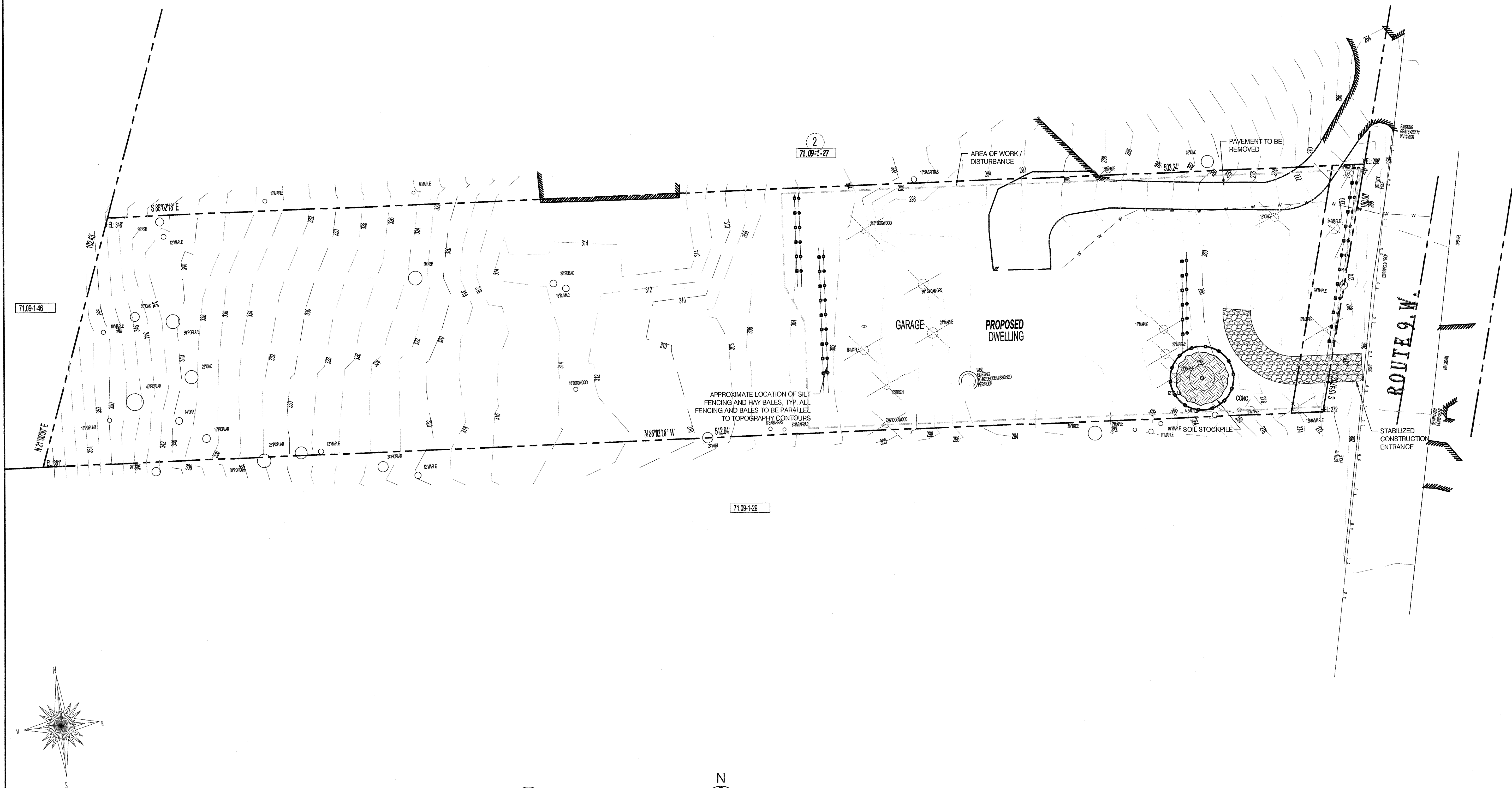
DATE: 10/29/2021

PROJECT #: 19071

DRAWN/CHECKED: JJV

SCALE: NOTED

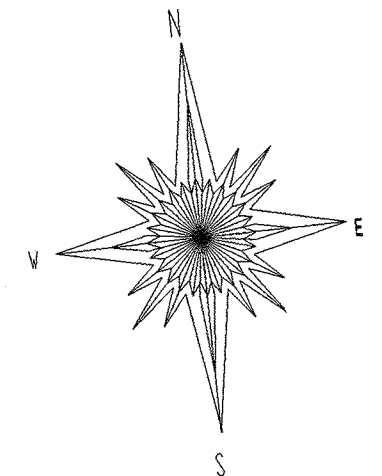
PAGE: 02 OF 10



71.09-1-46

2
71.09-1-27

71.09-1-29




A SUBSURFACE SITE PLAN
 SCALE: 1" = 20'-0"

REVISIONS:

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW, ARTICLE 145 FOR ANY PERSON, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER, TO ALTER THIS DRAWING IN ANY WAY.
 THE ENTIRE CONTENTS OF THIS DOCUMENT, INCLUDING ALL SKETCHES, PLANS, SPECIFICATIONS, SCHEDULES, AND ALL CORRECTIONS THEREIN ARE AND SHALL REMAIN THE SOLE AND EXCLUSIVE PROPERTY OF KRYPTON ENGINEERING, PLLC. THE DOCUMENT AND THEIR CONTENTS MAY NOT BE USED, PHOTOCOPIED OR REPRODUCED IN ANY MANNER, ELECTRONICALLY OR MECHANICALLY, WITHOUT THE EXPRESS WRITTEN CONSENT OF KRYPTON ENGINEERING, PLLC. ORIGINAL SHEET SIZE: 24x36"

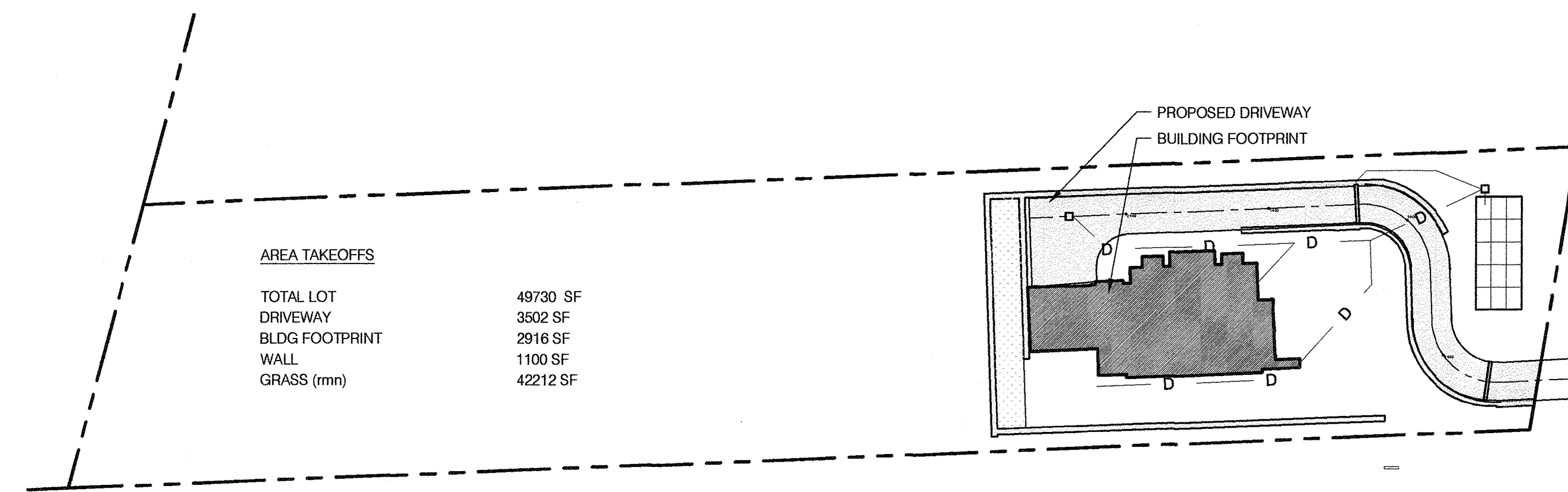
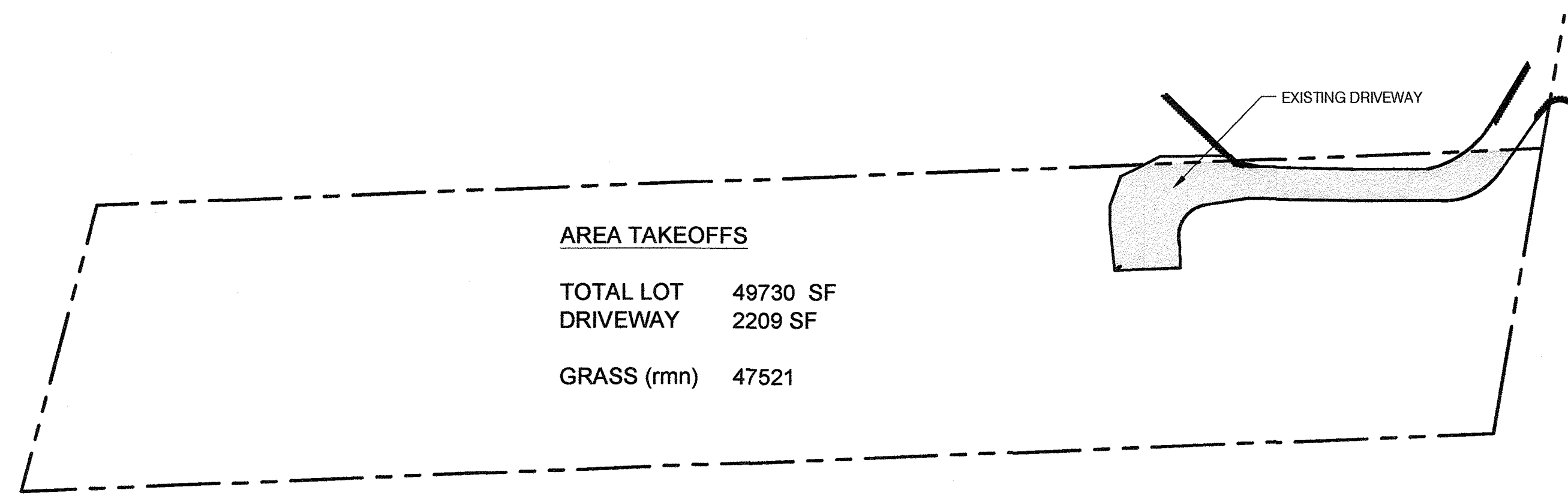
PROJECT:
**1050 ROUTE 9W
 NYACK, NY**

**EROSION CONTROL,
 LANDSCAPE, & DEMO**

SEAL & SIGNATURE:

JOREL J. VACCARO, PE
 NY PE 093362

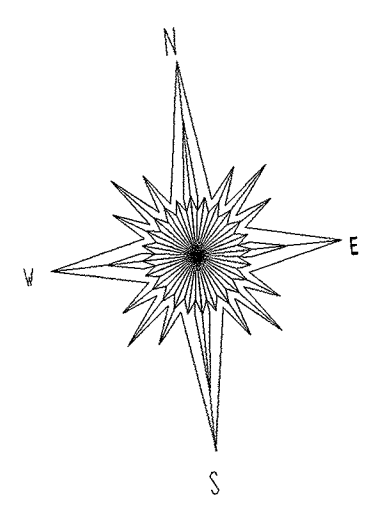
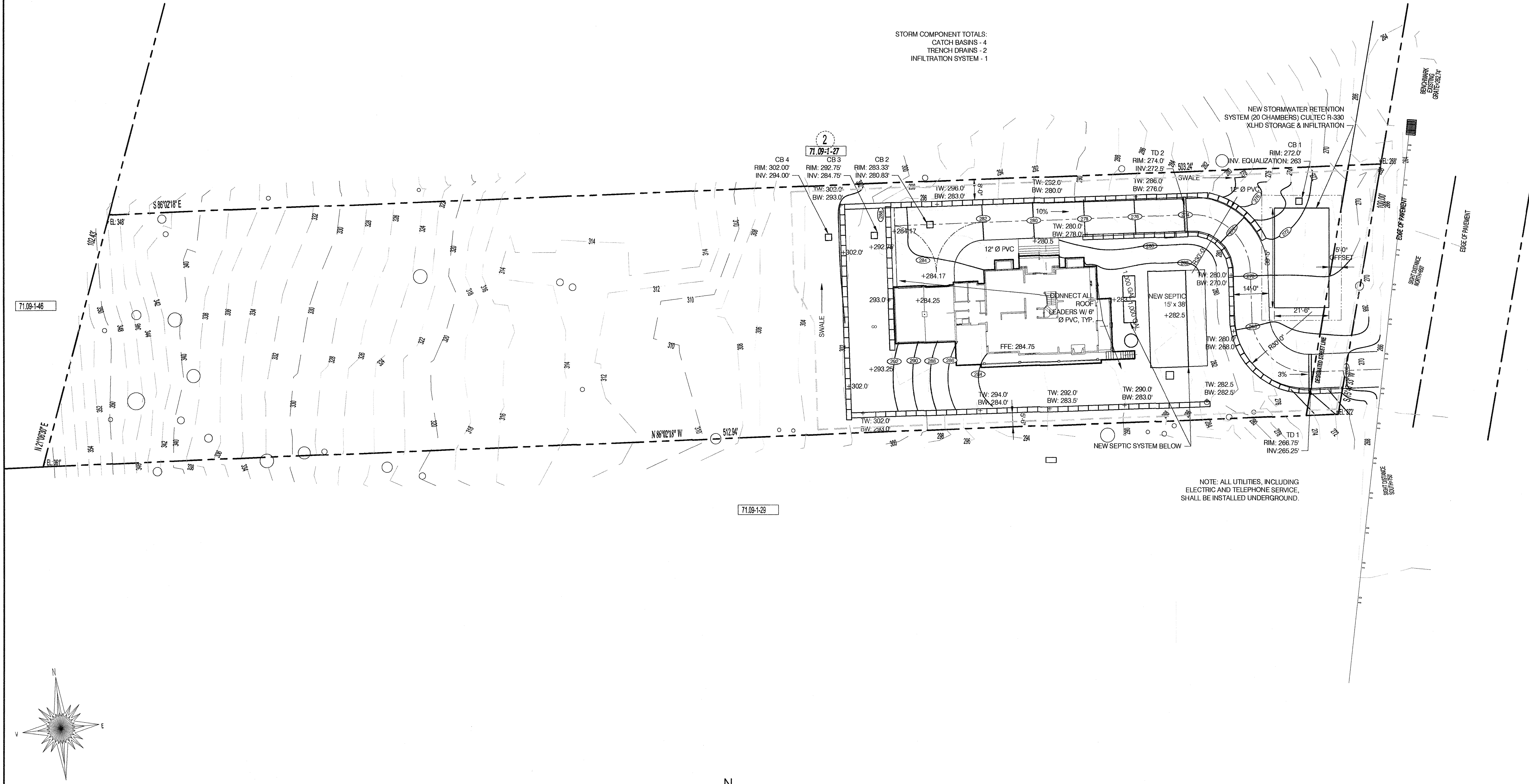
TO THE BEST OF THE SIGNING PROFESSIONAL'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS CONFORM WITH THE APPLICABLE MINIMUM DESIGN CODES.
 DATE: 10/20/2021
 PROJECT #: 19071
 DRAWN/CHECKED: JJV
 SCALE: NOTED
 PAGE: 03 OF 10

C-020



B EXISTING AREA ANALYSIS
SCALE: 1" = 40'-0"

C PROPOSED AREA ANALYSIS
SCALE: 1" = 40'-0"



A SITE PLAN
SCALE: 1" = 20'-0"

REVISIONS:

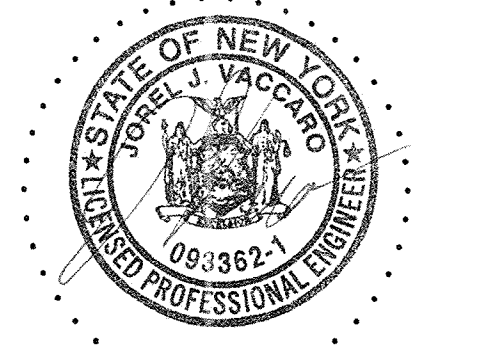
IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW, ARTICLE 145 FOR ANY PERSON, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER, TO ALTER THIS DRAWING IN ANY MANNER.

THE ENTIRE CONTENTS OF THIS DOCUMENT, INCLUDING ALL SKETCHES, PLANS, TABLES, DRAWINGS, SPECIFICATIONS, AND NOTIFICATIONS, AND ALL COPYRIGHTS THEREIN, ARE AND SHALL REMAIN THE SOLE AND EXCLUSIVE PROPERTY OF KRYPTON ENGINEERING, LLC. THE DOCUMENTS AND THEIR CONTENTS SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE EXPRESS WRITTEN CONSENT OF KRYPTON ENGINEERING, LLC. ORIGINAL SHEET SIZE: 24" X 36"

PROJECT:
**1050 ROUTE 9W
NYACK, NY**

TRIB. AREAS &
PROPOSED GRADING

SEAL & SIGNATURE:



JOREL J. VACCARO, PE
NY PE 093362

TO THE BEST OF THE SIGNING PROFESSIONAL'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

DATE: 10/20/2021
PROJECT #: 19071
DRAWN/CHECKED: JJV
SCALE: NOTED
PAGE: 04 OF 10

REVISIONS:

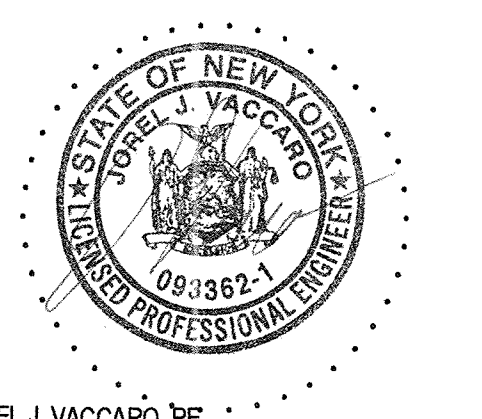
IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW, ARTICLE 145, FOR ANY PERSON, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER, TO ALTER THIS DRAWING IN ANY WAY.

THE ENTIRE CONTENTS OF THIS DOCUMENT, INCLUDING ALL SKETCHES, PLANS, TABLES, DRAWINGS, SPECIFICATIONS, AND ALL COPYRIGHTED MATERIALS, ARE THE SOLE AND EXCLUSIVE PROPERTY OF KRYPTON ENGINEERING, PLLC. THE DOCUMENTS AND THEIR CONTENTS MAY NOT BE USED, REPRODUCED OR REPRODUCED DIGITALLY, ELECTRONICALLY OR IN ANY OTHER MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF KRYPTON ENGINEERING, PLLC. ORIGINAL SHEET SIZE: 24"X36"

PROJECT:
**1050 ROUTE 9W
 NYACK, NY**

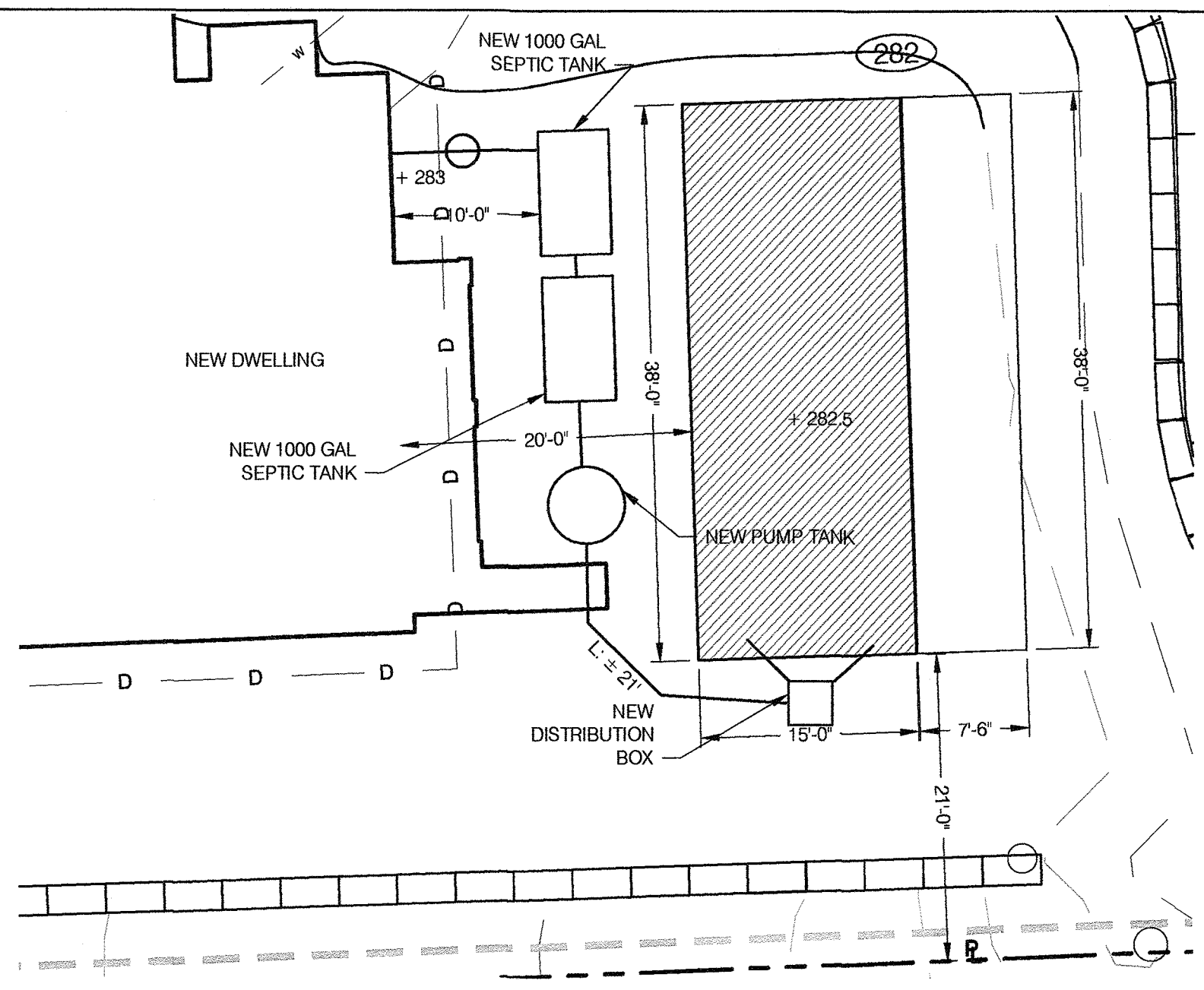
**SUBSURFACE,
 DRAINAGE, & SEPTIC**

SEAL & SIGNATURE:



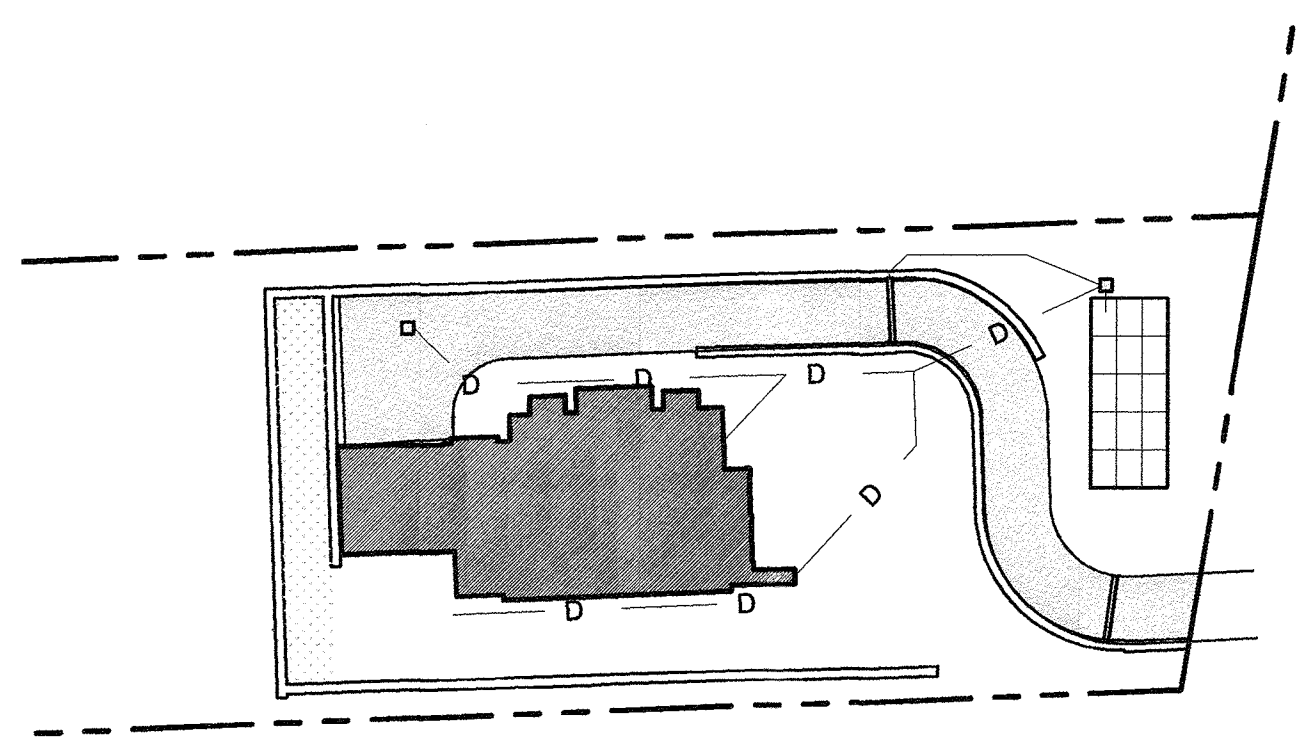
JOREL J. VACCARO, PE
 NY PE 093362
 TO THE BEST OF THE SIGNING PROFESSIONAL'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.
 DATE: 10/20/2021
 PROJECT #: 19071
 DRAWN/CHECKED: JJV
 SCALE: NOTED
 PAGE: 05 OF 10

C-110

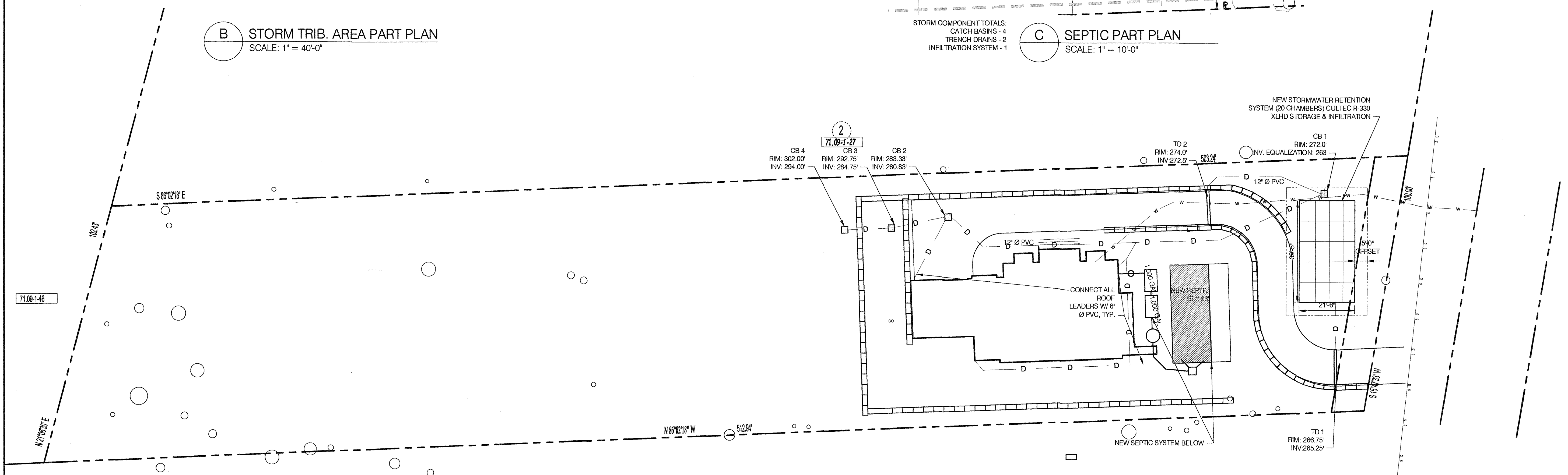


C SEPTIC PART PLAN
 SCALE: 1" = 10'-0"

STORM COMPONENT TOTALS:
 CATCH BASINS - 4
 TRENCH DRAINS - 2
 INFILTRATION SYSTEM - 1

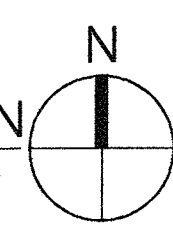
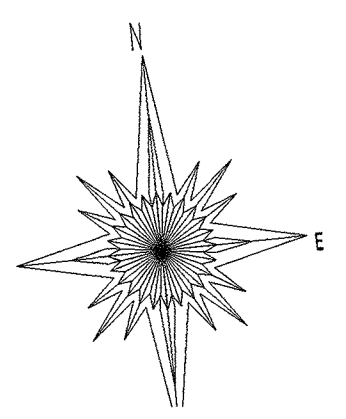


B STORM TRIB. AREA PART PLAN
 SCALE: 1" = 40'-0"



A SUBSURFACE SITE PLAN
 SCALE: 1" = 20'-0"

NOTE: ALL UTILITIES, INCLUDING ELECTRIC AND TELEPHONE SERVICE, SHALL BE INSTALLED UNDERGROUND.



- ELJEN DESIGN & INSTALLATION NOTES:**
- THIS DESIGN AND CONSTRUCTION REQUIREMENT COMPLIES WITH APPENDIX 75-A AND LOCAL HEALTH DEPARTMENT REGULATIONS.
 - THIS DESIGN COMPLIES WITH AND MUST BE INSTALLED IN ACCORDANCE WITH THE MOST CURRENT ELJEN NEW YORK DESIGN AND INSTALLATION MANUAL.
 - THIS SYSTEM IS NOT DESIGNED FOR USE WITH A GARBAGE DISPOSAL.
 - THIS SYSTEM IS NOT DESIGNED FOR BACKWASH FROM A WATER SOFTENER.
 - ORGANIC MATERIAL THAT CAN RESTRICT FLOW MUST BE REMOVED FOR RAISED BEDS. THE SOIL MUST BE SCARIFIED TO PROVIDE DEEP CHANNELS FOR THE SAND. A PLOWED INTERFACE ON CONTOUR IS RECOMMENDED TO PREPARE THE SOIL FOR FILL PLACEMENT.
 - SCARIFY ANY SMEARED SUBSOIL PRIOR TO FILL PLACEMENT.
 - FILL MATERIAL SHALL MEET OR EXCEED STATE OF NEW YORK CODE REQUIREMENTS. ALL FILL MATERIAL SHALL BE CLEAN BANK RUN SAND, FREE OF TOPSOIL, HUMUS, AND "DREDGING" DIRECTLY BENEATH THE GSF SYSTEM.
 - ASTM C33 SPECIFIED SAND WITH LESS THAN 10% PASSING A #100 SIEVE AND LESS THAN 5% PASSING A #200 SIEVE SHALL BE PLACED BELOW AND AROUND THE GSF MODULES, WITH 6 INCHES MINIMUM UNDERNEATH AND 6 INCHES MINIMUM SURROUNDING THE GSF MODULES IN TRENCH CONFIGURATIONS. IN BED SYSTEMS, USE 6 INCHES MINIMUM UNDERNEATH THE MODULES WITH 12 INCHES MINIMUM BETWEEN MODULE ROWS AND 12 INCHES MINIMUM AROUND THE PERIMETER OF THE MODULES.
 - ELJEN PROVIDED GEOTEXTILE COVER FABRIC SHALL PROVIDE PROPER TENSION AND ORIENTATION OF THE FABRIC AROUND THE SIDES OF THE PERFORATED PIPE ON TOP OF THE GSF MODULES. FABRIC SHOULD BE NEITHER TOO LOOSE, NOR TOO TIGHT. THE CORRECT TENSION OF THE COVER FABRIC IS SET BY:
 - SPREADING THE COVER FABRIC OVER THE TOP OF THE MODULE AND DOWN BOTH SIDES OF THE MODULE WITH THE COVER FABRIC TIGHTENED OVER THE TOP OF THE PERFORATED DISTRIBUTION PIPE.
 - PLACE SHOVEL FULLS OF SPECIFIED SAND DIRECTLY OVER THE PIPE AREA ALLOWING THE COVER FABRIC TO FORM A MOSTLY VERTICAL ORIENTATION ALONG THE SIDES OF THE PIPE. REPEAT THIS STEP MOVING DOWN THE PIPE.
 - BACKFILL MATERIAL SHALL BE CLEAN WITH NO ROOTS OR STONES LARGER THAN 2 INCHES IN ANY DIMENSION TO A MINIMUM DEPTH OF 8 INCHES OVER THE GSF MODULES AND FINAL COVER FOR VEGETATION OF 4 INCHES TO 6 INCHES OF CLEAN LOAM.
 - ANY SYSTEM WHICH IS MORE THAN 18 INCHES BELOW FINISH GRADE AS MEASURED FROM THE TOP OF THE MODULE SHALL BE VENTED.

ELJEN SEPTIC SYSTEM DESIGN & TANK SIZING:

UNIT DESIGN FLOW	110 GPD/BEDROOM
# OF BEDROOMS	3
DESIGN FLOW	330 GPD
SEPTIC TANK CAPACITY	1000 GAL + ADDL 1000 GAL TANK
ASSUMED PERCOLATION RATE	15 MIN / IN

--> USE ELJEN SYSTEM B43 WITH BED CONFIGURATION

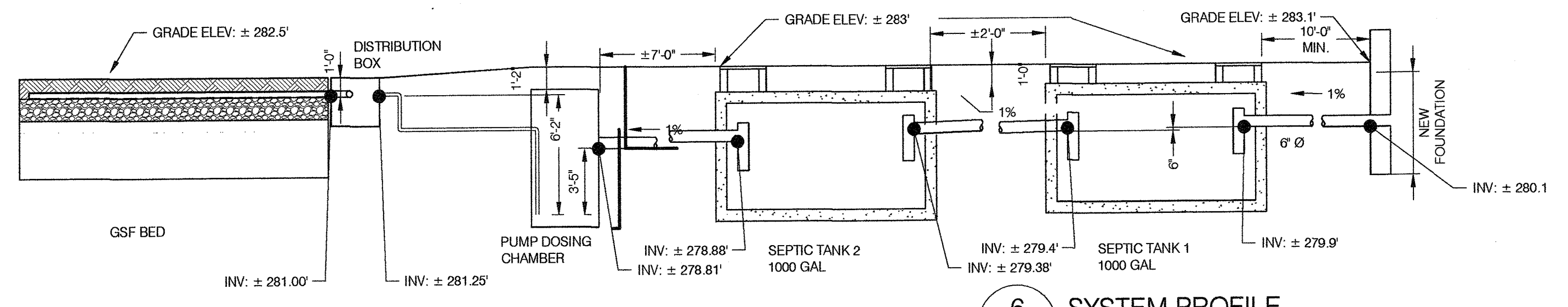
TABLE 3: B43 GSF BED SIZING TABLE (1 TO 5 MIN/IN):	
BED ABSORPTION AREA	550 SF

TABLE 4: GSF BED SIZING TABLE	
MODULES PER SYSTEM:	18 B43 MODULES

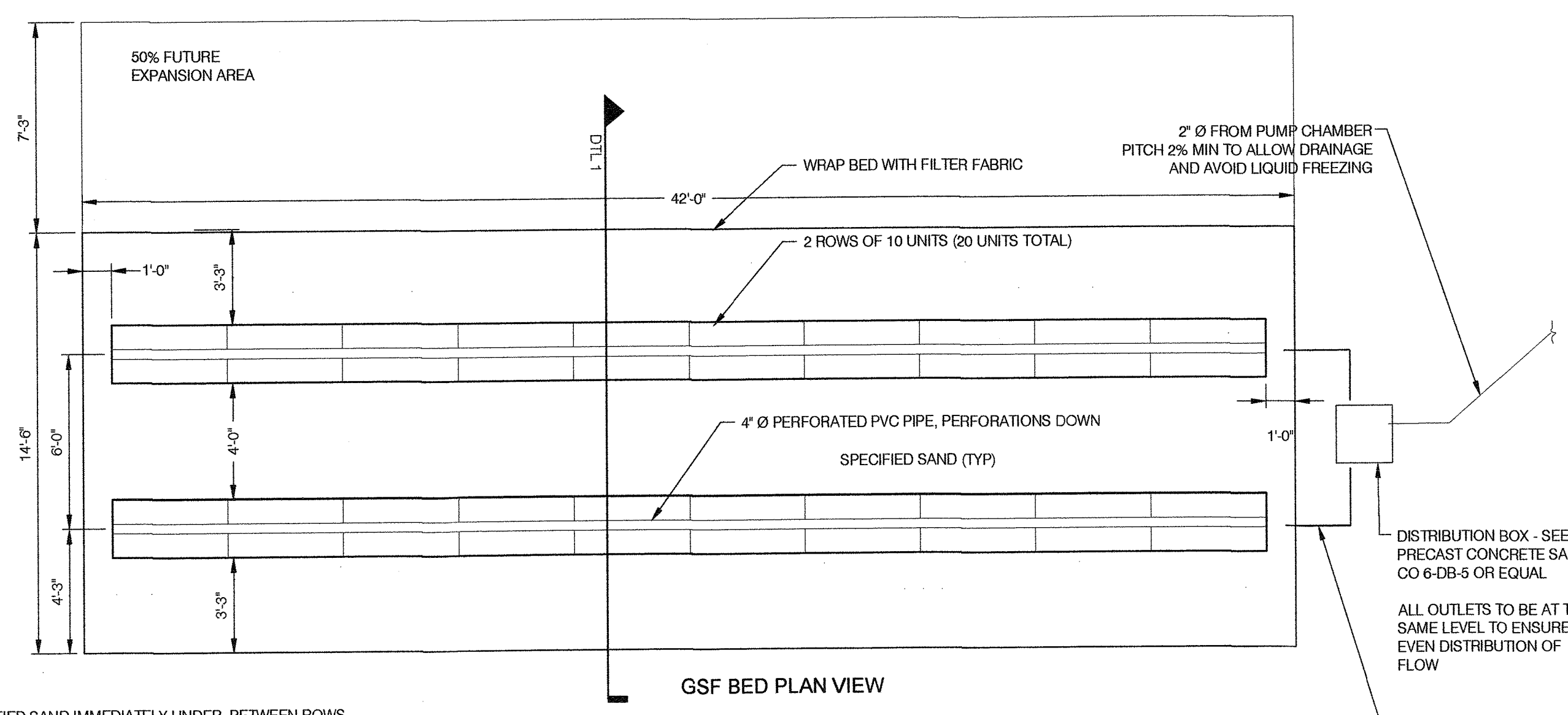
--> USE 2 ROWS OF 9 MODULES

BED LENGTH
 10 UNITS * 4 FT / UNIT + 2 FT = 38 FT

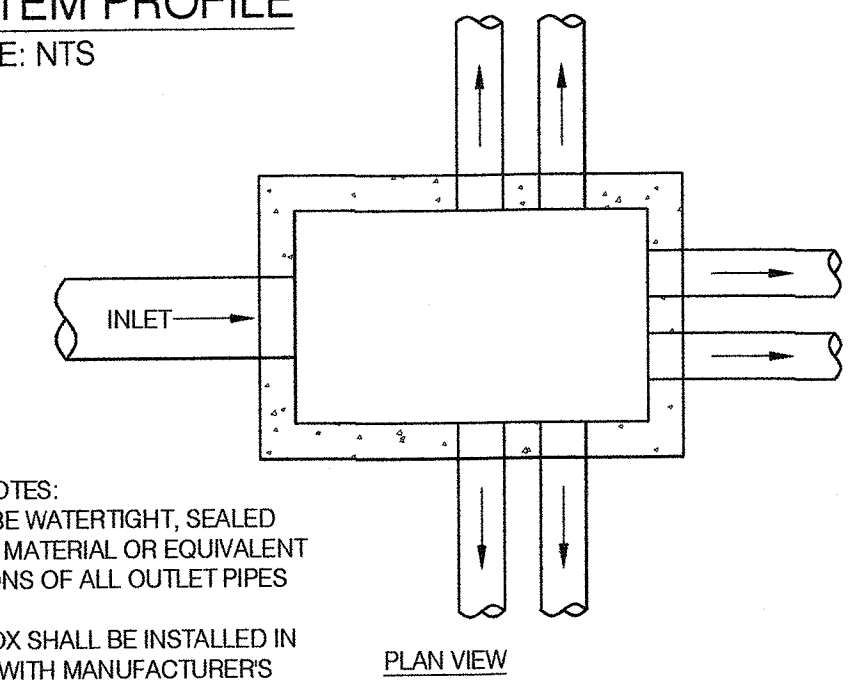
BED WIDTH
 ABSORPTION AREA / LENGTH = 14.47 FT --> 14.5 FT



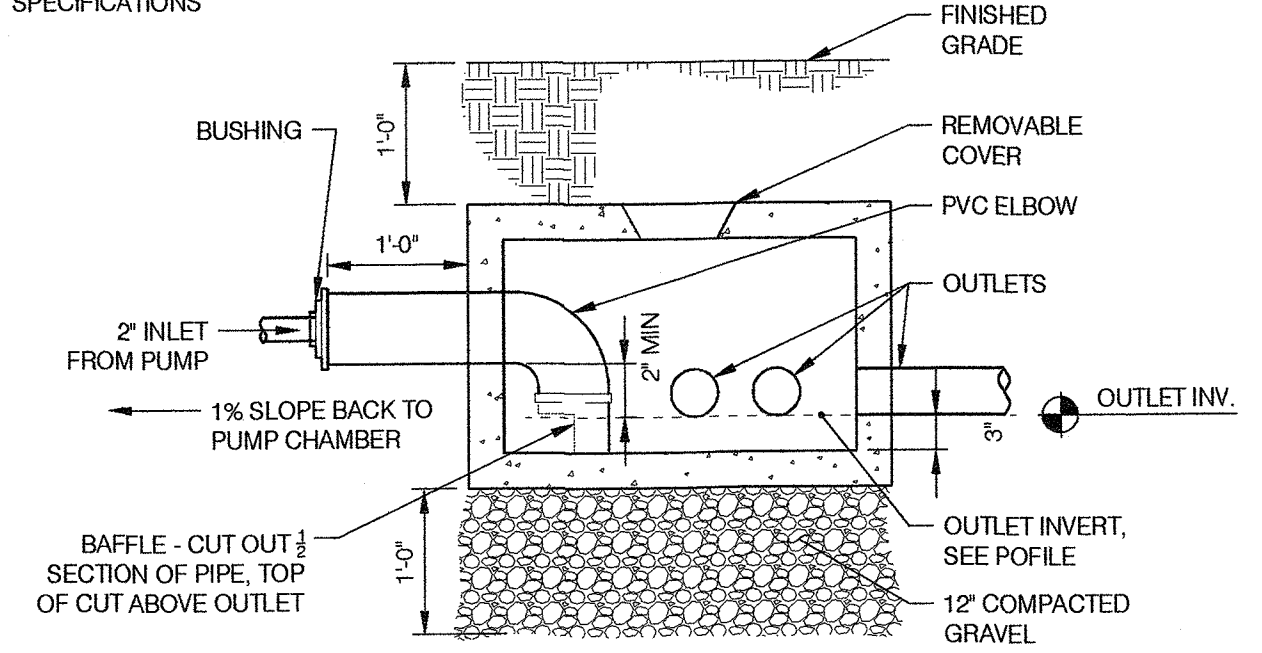
6 SYSTEM PROFILE
 SCALE: NTS



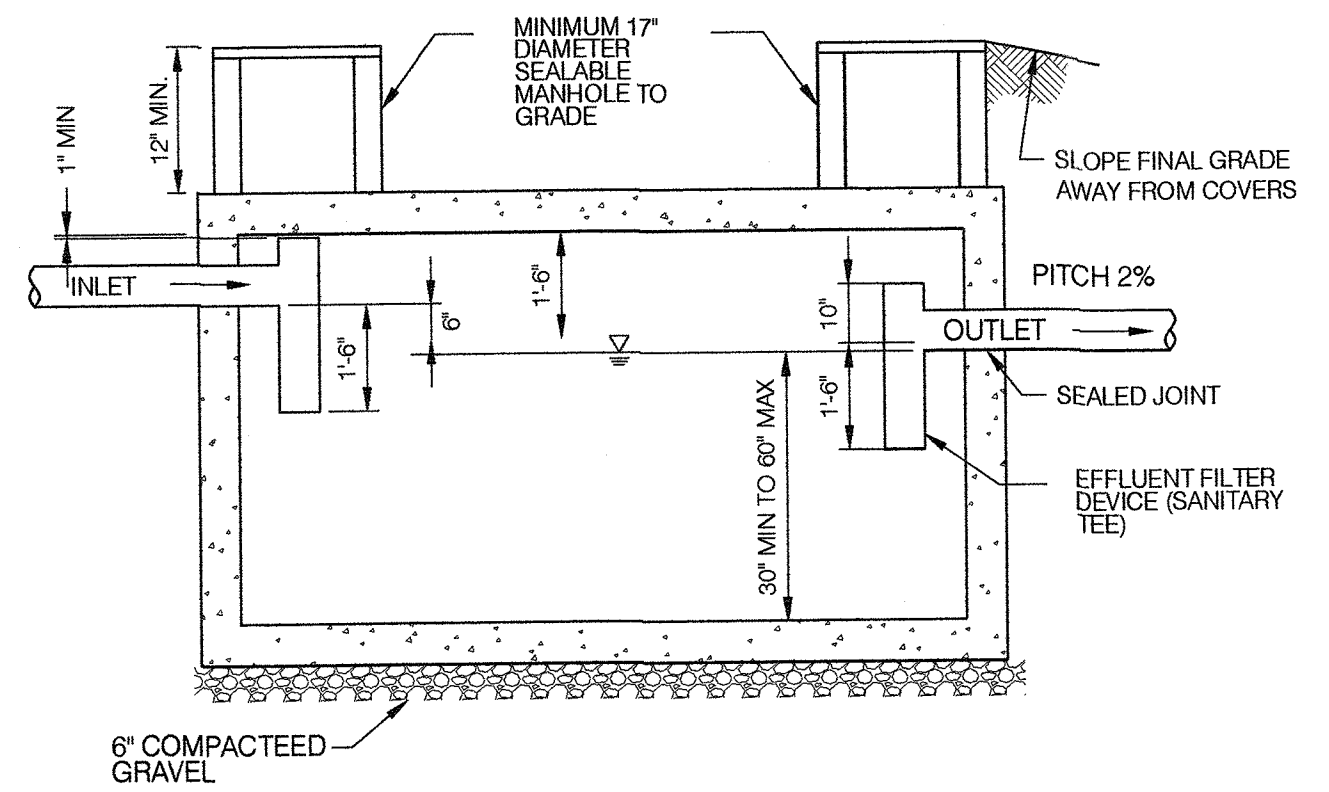
A BED PLAN
 SCALE: 1/4" = 1'-0"



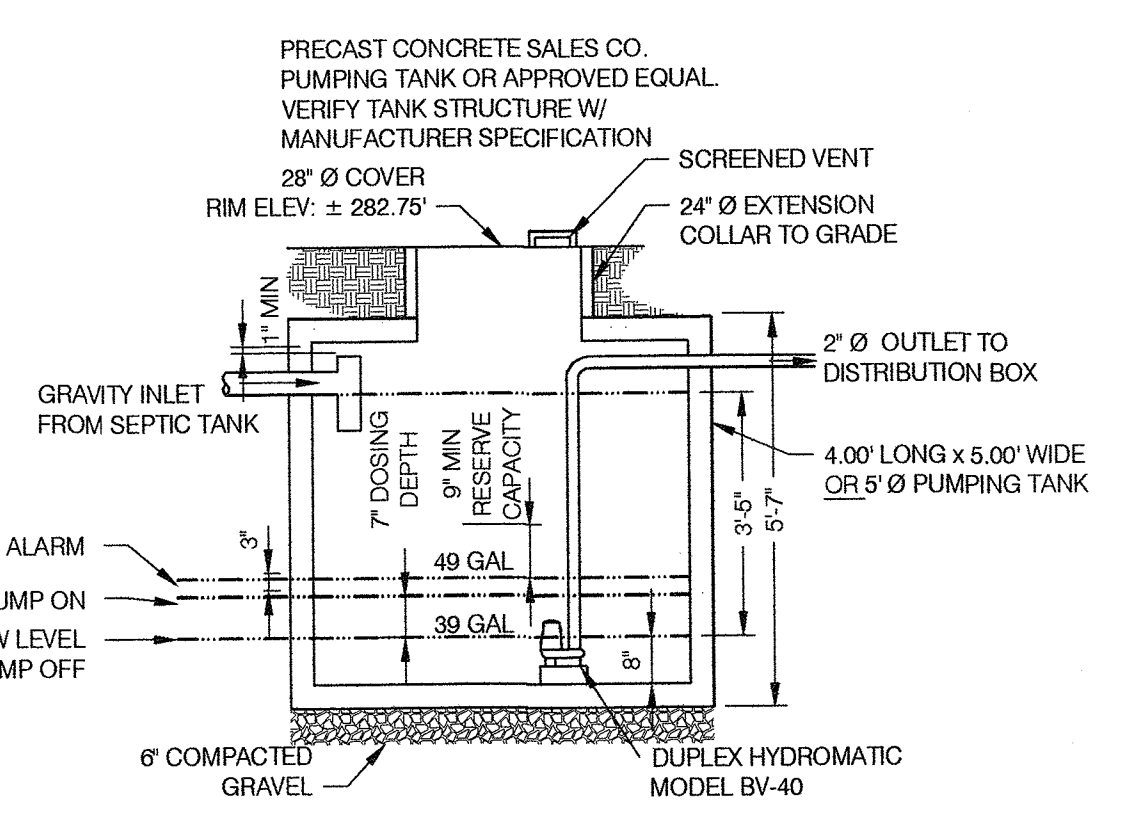
7 DISTRIBUTION BOX
 SCALE: NTS



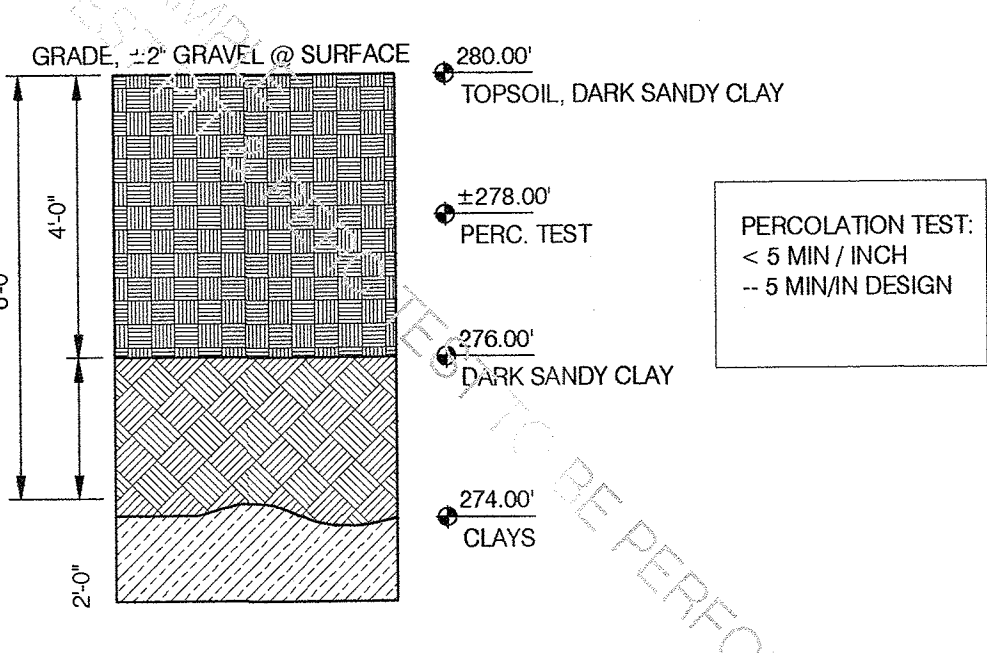
8 CLEANOUT
 SCALE: NTS



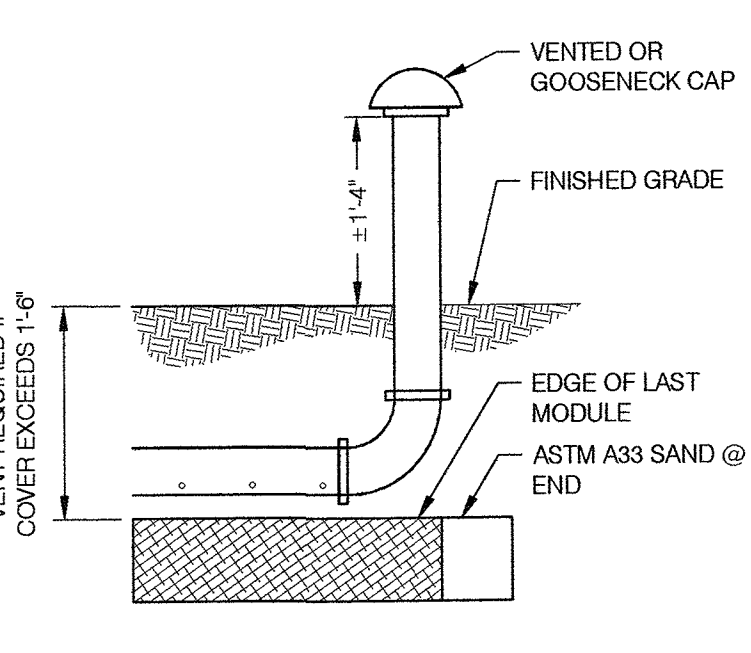
2 TYPICAL SEPTIC TANK SECTION
 SCALE: 3/8" = 1'-0"



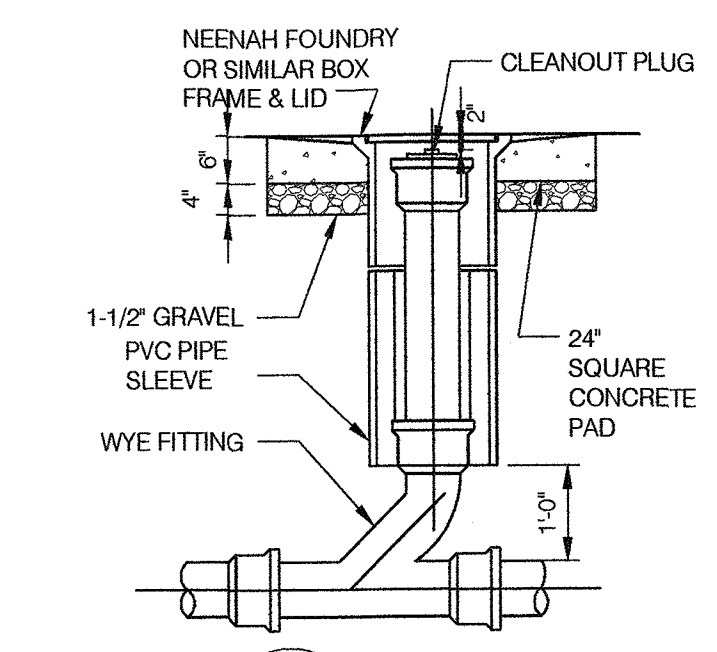
3 PUMP TANK SECTION
 SCALE: 3/8" = 1'-0"



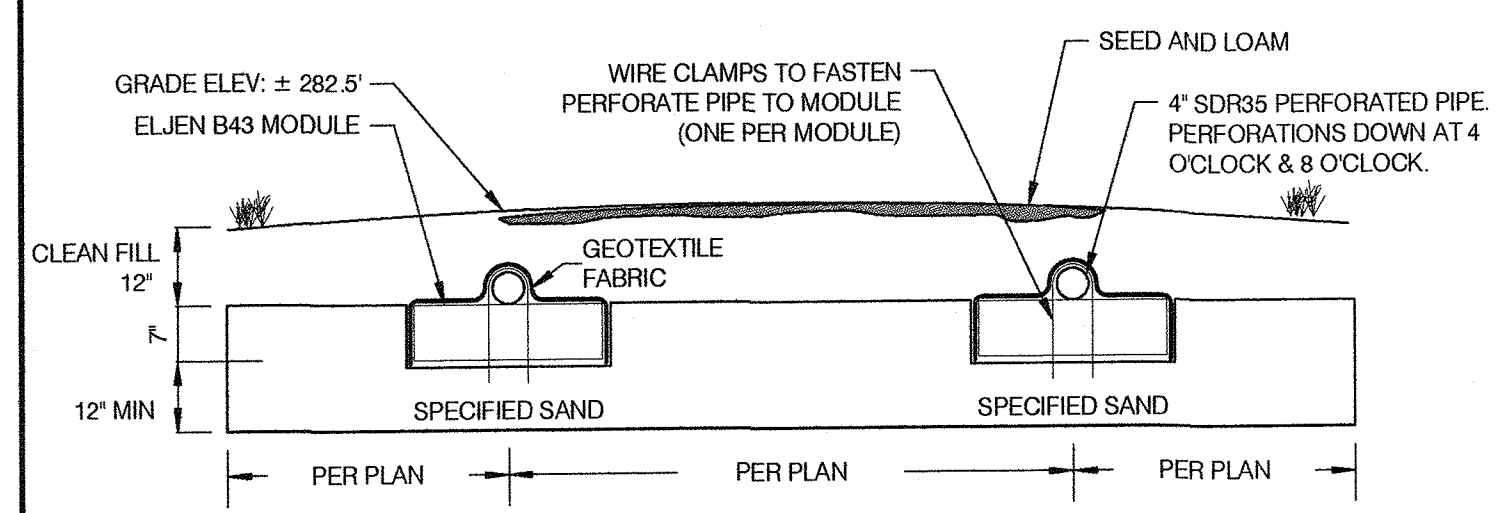
4 TEST PIT #1
 SCALE: NTS
 DATE: xx/2021



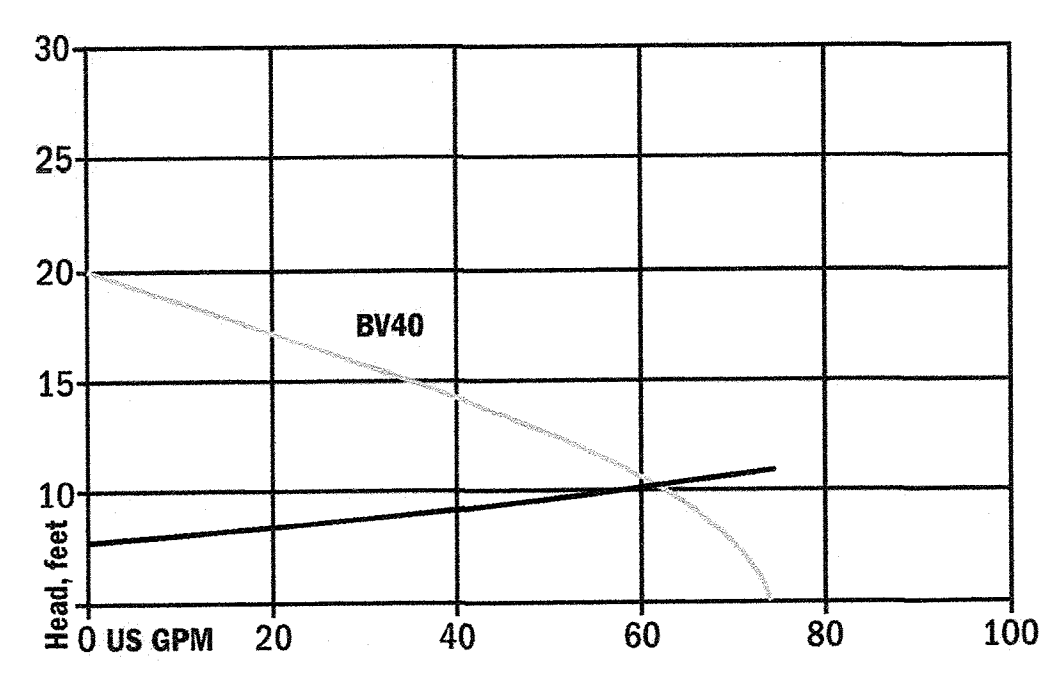
5 VENT DETAIL
 SCALE: NTS



8 CLEANOUT
 SCALE: NTS



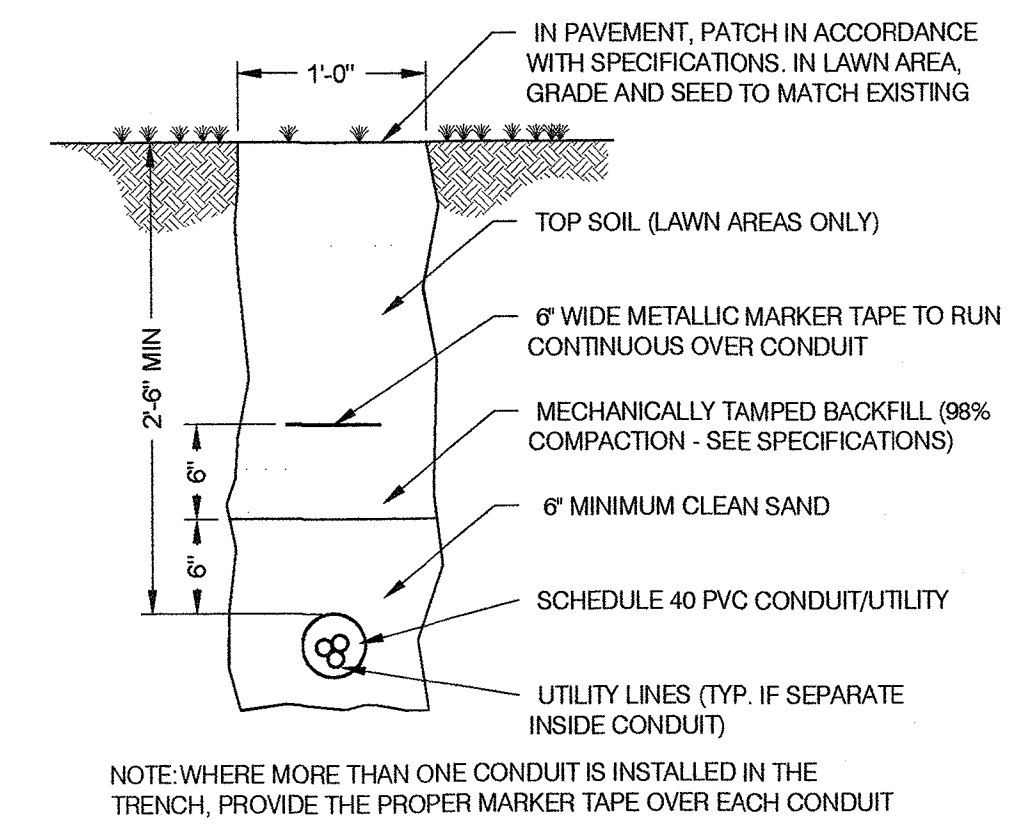
1 GSF BED CROSS SECTION
 SCALE: NTS



PUMP CURVE
 SCALE: NTS

HEAD LOSS & PUMP DESIGN
 FLOW 2" Ø DELIVERY PIPE = 62 GPM
 TOTAL OPERATING HEAD $H_t = H_p + H_e + H_f$
 H_p = PRESSURE OF LATERAL = 2.5 FT
 H_e = ELEVATION HEAD:
 LATERAL INVERT ELEVATION - DOSING TANK LOWER LEVEL = 6.2 FT
 H_f = FRICTION HEAD THRU DELIVERY PIPE $L = 22'$ @ 2" Ø & 62 GPM = 22 LF * (7.0' HEAD LOSS / 100FT) = 1.76 FT (USING HAZEN-WILLIAMS)
 $H_t = 2.5 + 6.2 + 1.76 = 10.5$ FT HEAD LOSS
 USE PENTAIR HYDROMATIC MODEL BV-40 SUBMERSIBLE SEWAGE EJECTOR PUMP 2" NPT DISCHARGE
 1/2 HP 110 VOLTS, 1 PHASE, 12.6 FULL LOAD AMPS

PIPE VOLUME
 VOL. IN PIPES & RESERVE VOL 654 CF
 DOSE VOLUME (80% OF PIPE) 39 GAL
 PRESSURE DIST. PIPE DIAM. 1.5 TO 3"
 PUMP CHAMBER SIZE (LxW) 3 FT x 3 FT
 DEPTH 7 INCHES
 RESERVE DEPTH 9 INCHES
 1 DAYS DESIGN FLOW ABOVE ALARM LEVEL OR DUPLEXED PUMPS



9 TRENCH DETAIL
 SCALE: NTS

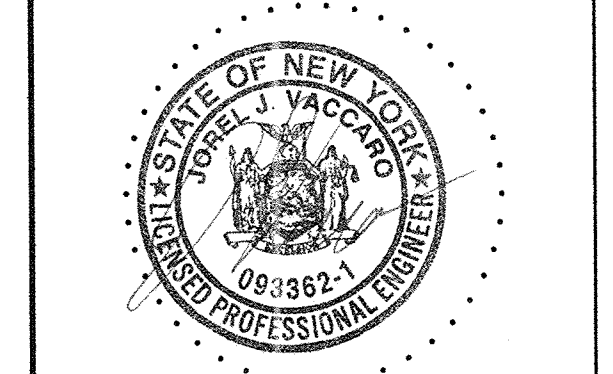
REVISIONS:

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW, ARTICLE 145, FOR ANY PERSON, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER, TO ALTER THIS DRAWING IN ANY WAY.
 THE ENTIRE CONTENTS OF THIS DOCUMENT, INCLUDING ALL SPECIFICATIONS, PLANS, SCHEDULES, DRAWINGS, SCHEDULES, AND SPECIFICATIONS, AND ALL COPYRIGHTS HEREIN, ARE AND SHALL REMAIN THE SOLE AND EXCLUSIVE PROPERTY OF KRYPTON ENGINEERING, PLLC. THE DOCUMENTS AND THEIR CONTENTS MAY NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN CONSENT OF KRYPTON ENGINEERING, PLLC. ORIGINAL SHEET SIZE: 24x36

PROJECT:
**1050 ROUTE 9W
 NYACK, NY**

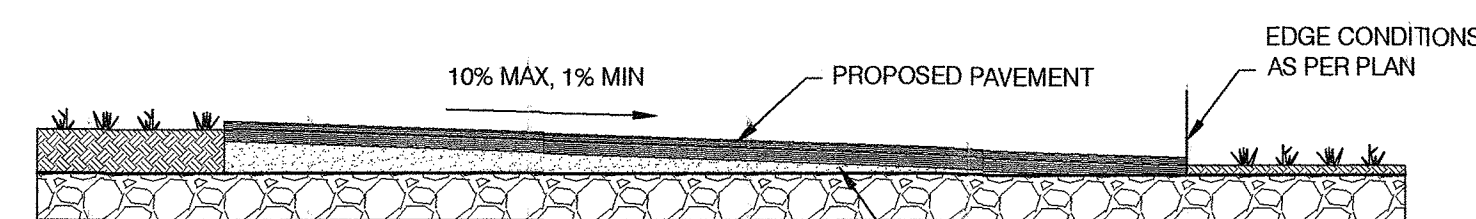
SEPTIC DETAILS

SEAL & SIGNATURE:

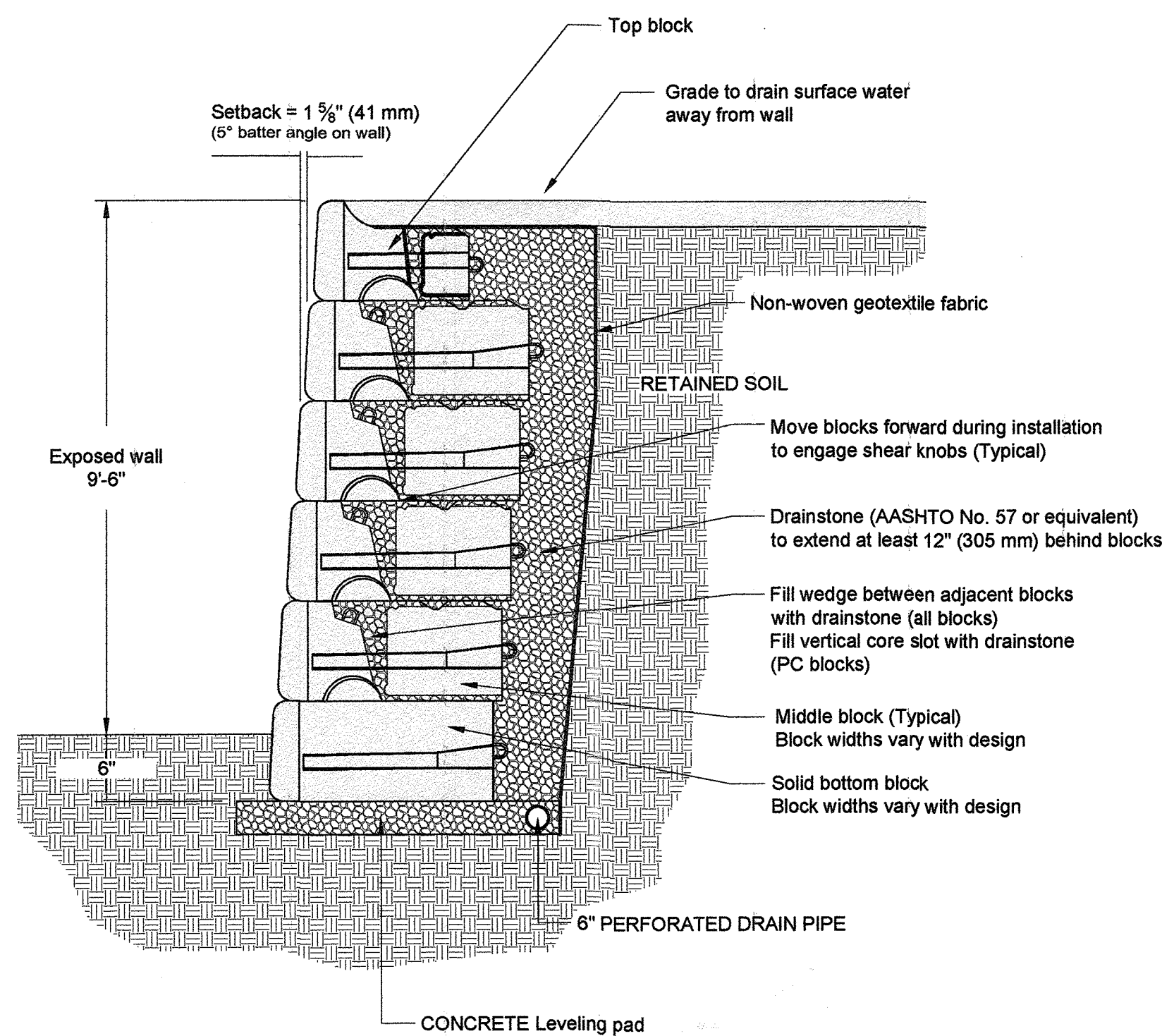


JOREL J. VACCARO, PE
 NY PE 093362
 DATE: 10/20/2021
 PROJECT #: 19071
 DRAWN/CHECKED: JJV
 SCALE: NOTED
 PAGE: 06 OF 10

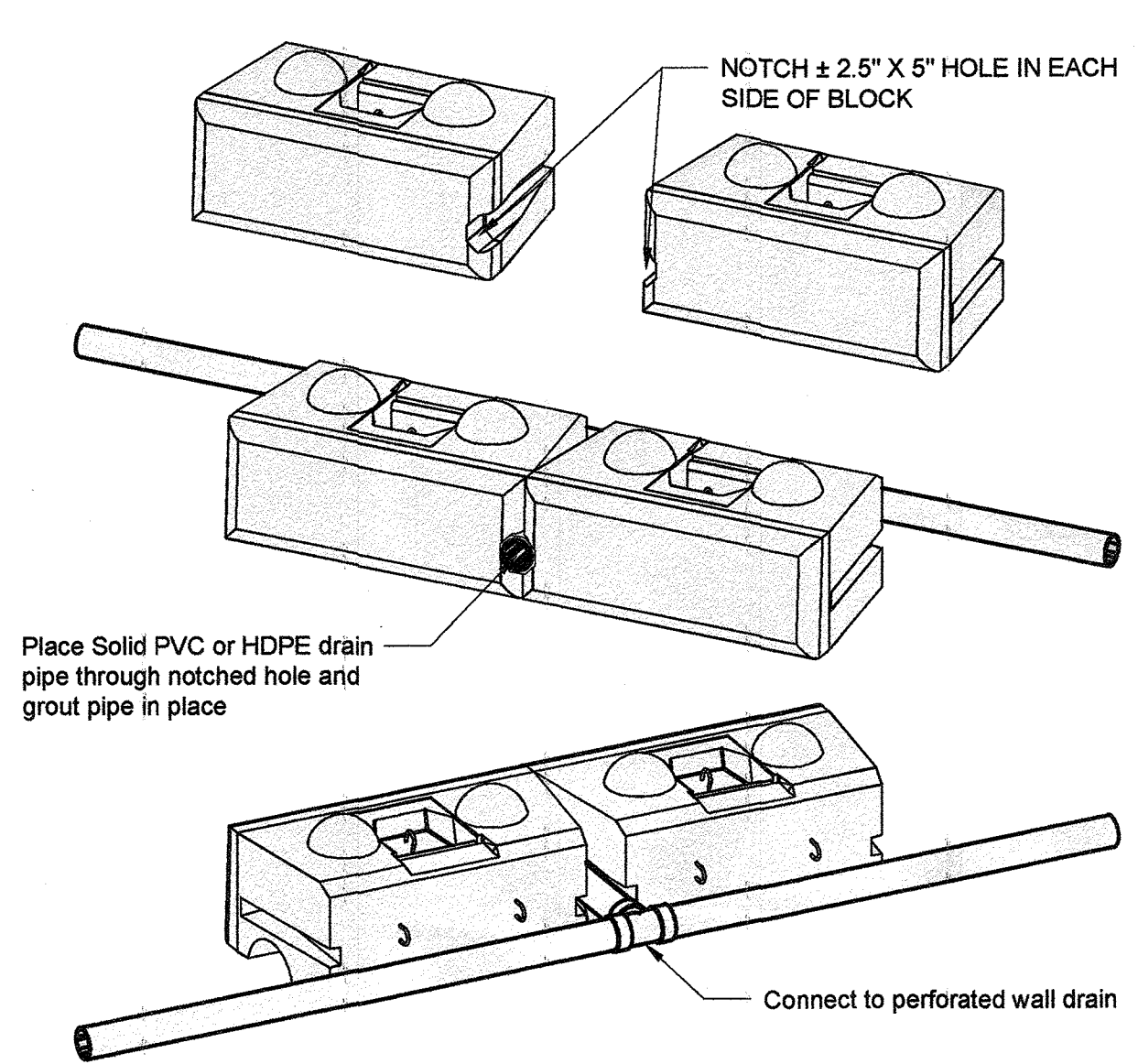
C-200



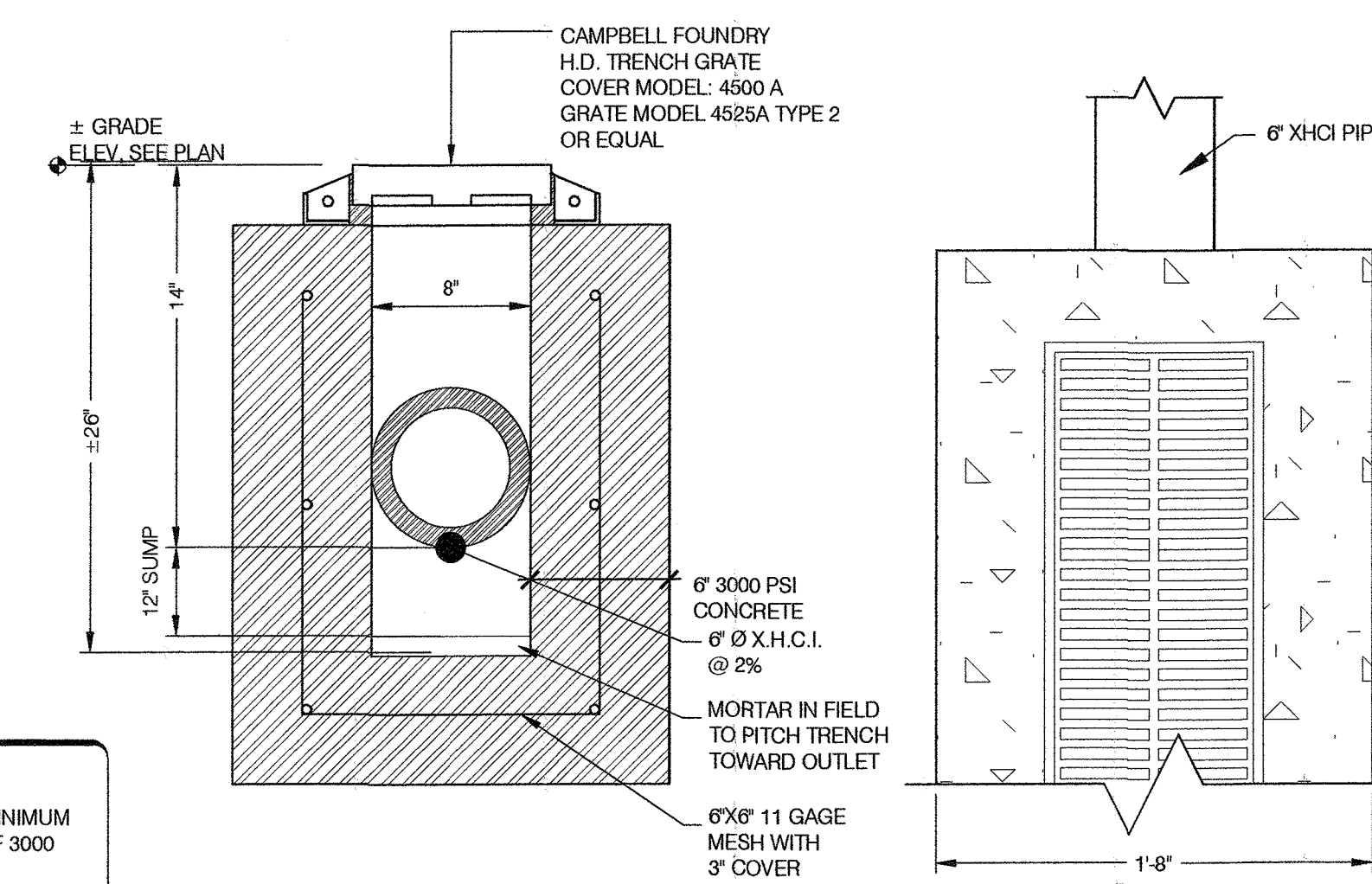
1 NEW PAVEMENT
 SCALE: 1/2" = 1'-0"



2 TYPICAL REDI-ROCK GRAVITY WALL
 SCALE: 1/2" = 1'-0"



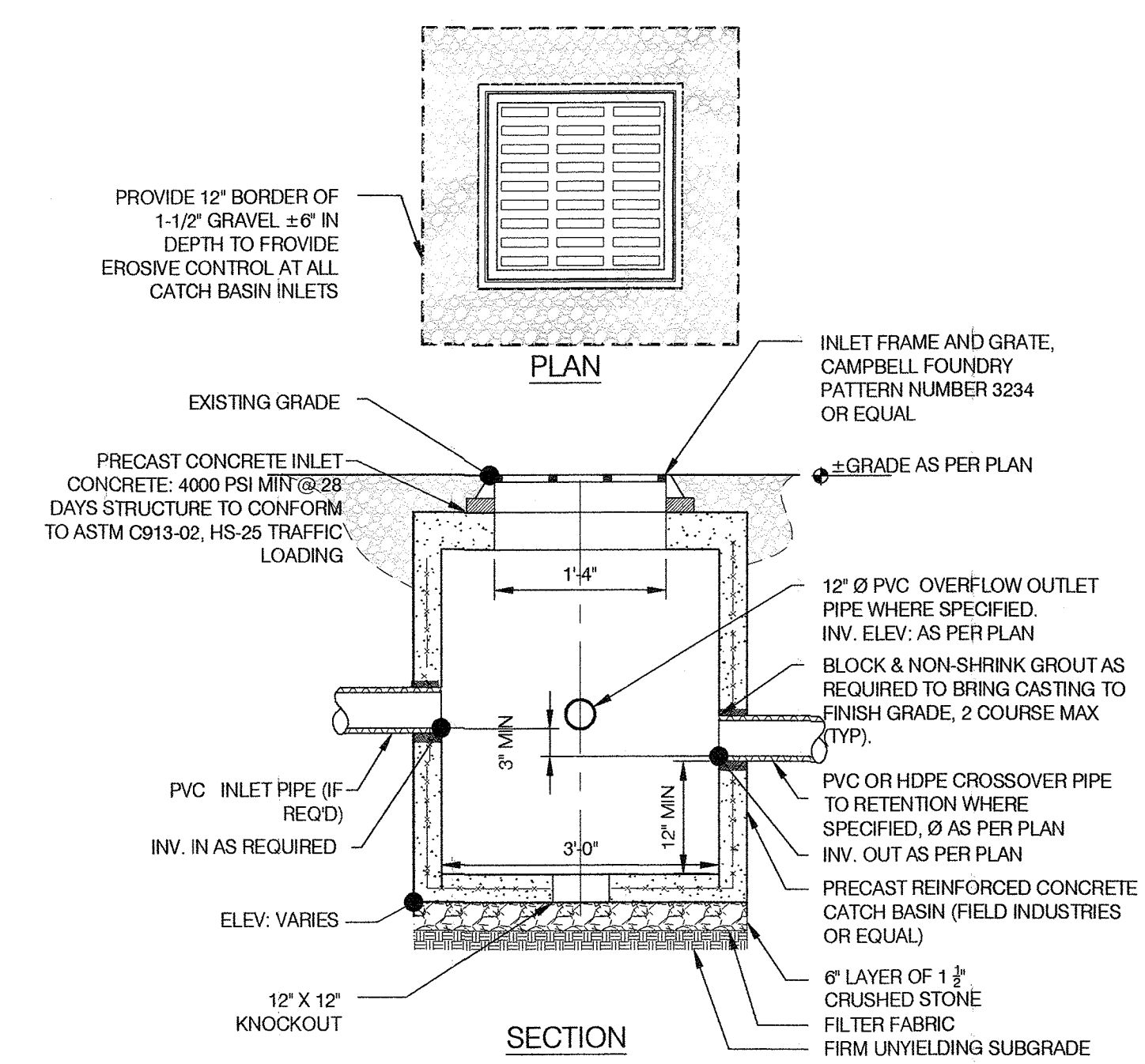
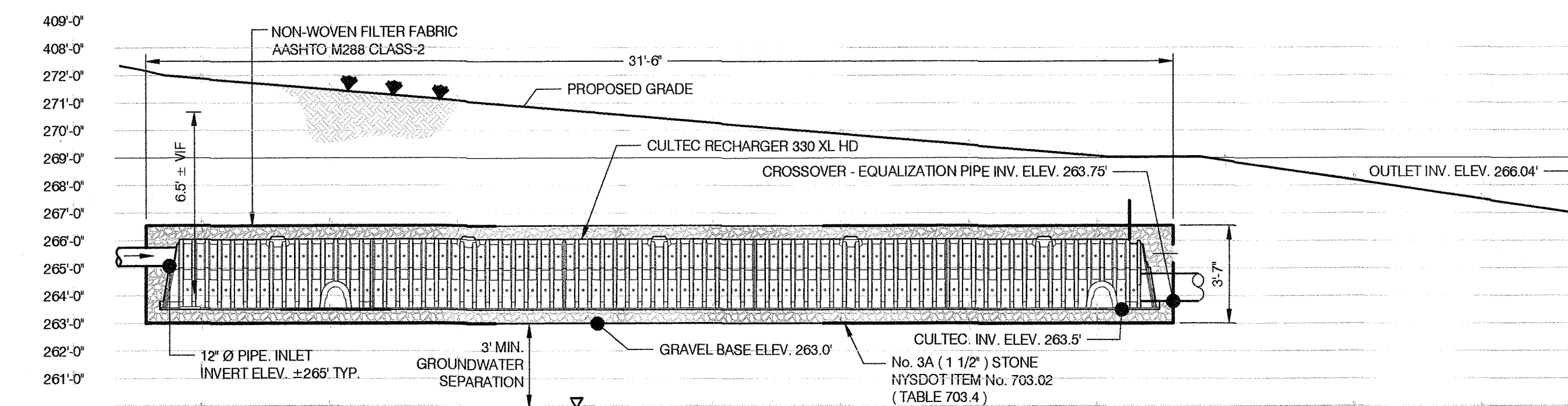
3 FOOTING DRAIN OUTLET PENETRATION
 SCALE: NTS



NOTES
 - CONTRACTOR TO VERIFY MINIMUM SOIL BEARING CAPACITY OF 3000 PSF

NOTE: NO DETENTION VOLUME AT TRENCH DRAIN. TRENCH DRAIN TO BE DRY WITHIN 5 DAYS OF RAIN EVENT.

4 TRENCH DRAIN
 SCALE: NTS



REVISIONS:

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW, ARTICLE 145 FOR ANY PERSON UNLESS HE OR SHE IS ACTING UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER, TO ALTER THIS DRAWING IN ANY WAY.

PROJECT:
**1050 ROUTE 9W
 NYACK, NY**

CIVIL DETAILS

SEAL & SIGNATURE:



JOREL J. VACCARO, PE
 NY PE 093862

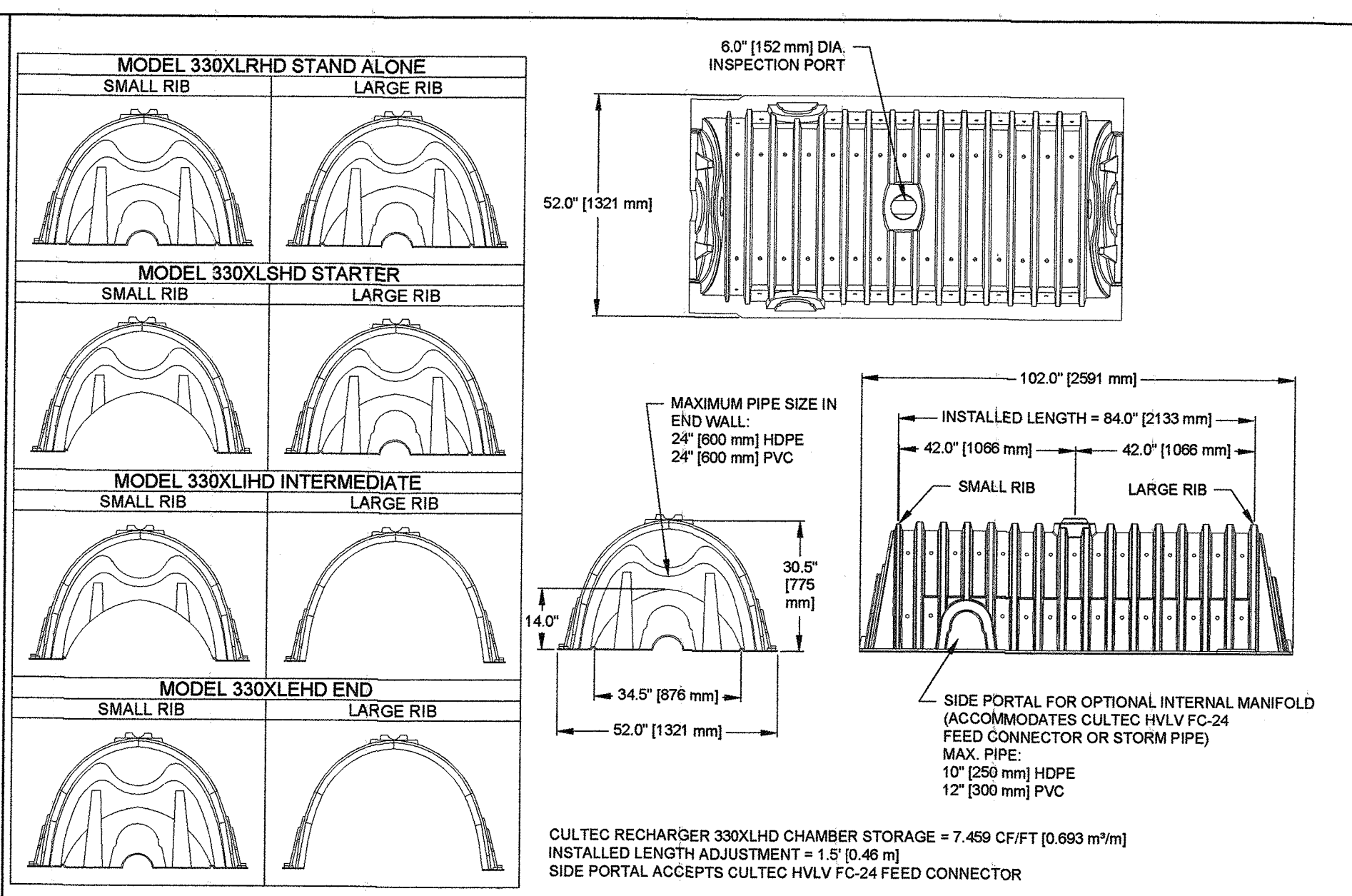
DATE: 10/20/2021
 PROJECT #: 19071
 DRAWN/CHECKED: JVV
 SCALE: NOTED
 PAGE: 7 OF 10

C-210

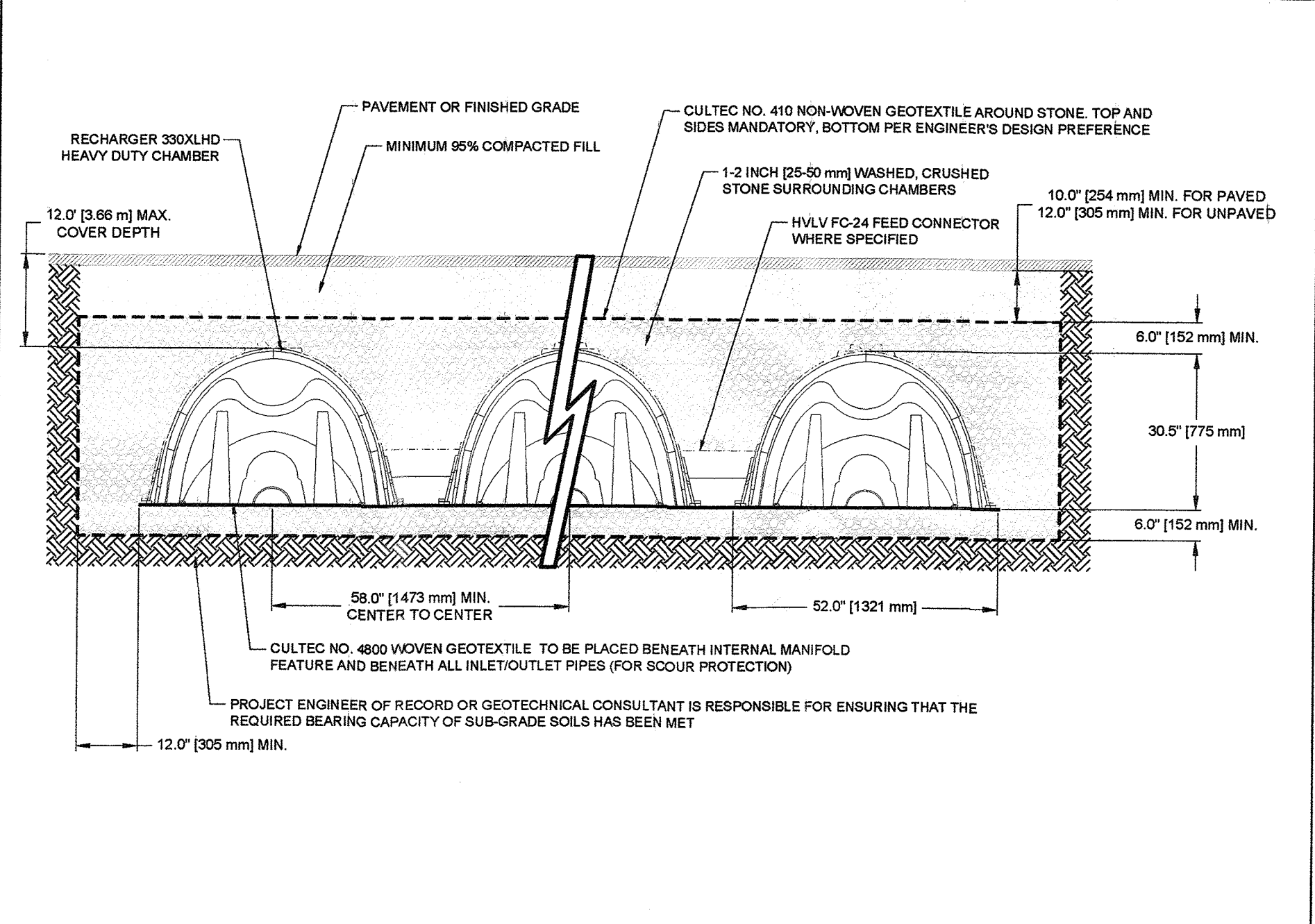
CULTEC RECHARGER 330XLHD PRODUCT SPECIFICATIONS

- GENERAL**
CULTEC RECHARGER 330XLHD CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER MANAGEMENT. THE CHAMBERS MAY BE USED FOR RETENTION, RECHARGING, DETENTION OR CONTROLLING THE FLOW OF ON-SITE STORMWATER RUNOFF.
- CHAMBER PARAMETERS**
- THE CHAMBERS SHALL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT, USA. (203-775-4416 OR 1-800-428-5832)
 - THE CHAMBER SHALL BE VACUUM THERMOFORMED OF HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE) WITH A BLACK INTERIOR AND BLUE EXTERIOR.
 - THE CHAMBER SHALL BE ARCHED IN SHAPE.
 - THE CHAMBER SHALL BE OPEN-BOTTOMED.
 - THE CHAMBER SHALL BE JOINED USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS OR SEPARATE END WALLS.
 - THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC RECHARGER 330XLHD SHALL BE 30.5 INCHES (775 mm) TALL, 52 INCHES (1321 mm) WIDE AND 9.5 FEET (2897 mm) LONG. THE INSTALLED LENGTH OF A JOINED RECHARGER 330XLHD SHALL BE 7 FEET (2.13 m).
 - MAXIMUM INLET OPENING ON THE CHAMBER ENDWALL IS 24 INCHES (600 mm) HDPE.
 - THE CHAMBER SHALL HAVE TWO SIDE PORTALS TO ACCEPT CULTEC HVLV FC-24 FEED CONNECTORS TO CREATE AN INTERNAL MANIFOLD. THE NOMINAL DIMENSIONS OF EACH SIDE PORTAL SHALL BE 10.5 INCHES (267 mm) HIGH BY 11.5 INCHES (292 mm) WIDE. MAXIMUM ALLOWABLE OUTER DIAMETER (O.D.) PIPE SIZE IN THE SIDE PORTAL IS 11.75 INCHES (298 mm).
 - THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV FC-24 FEED CONNECTOR SHALL BE 12 INCHES (305 mm) TALL, 16 INCHES (406 mm) WIDE AND 24.2 INCHES (614 mm) LONG.
 - THE NOMINAL STORAGE VOLUME OF THE RECHARGER 330XLHD CHAMBER SHALL BE 7.459 FT³ / FT (0.693 m³ / m) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF A JOINED RECHARGER 330XLHD SHALL BE 52.213 FT³ / UNIT (1.478 m³ / UNIT) - WITHOUT STONE.
 - THE NOMINAL STORAGE VOLUME OF THE HVLV FC-24 FEED CONNECTOR SHALL BE 0.913 FT³ / FT (0.085 m³ / m) - WITHOUT STONE.
 - THE RECHARGER 330XLHD CHAMBER SHALL HAVE FIFTY-SIX DISCHARGE HOLES BORED INTO THE SIDEWALLS OF THE UNIT'S CORE TO PROMOTE LATERAL CONVEYANCE OF WATER.
 - THE RECHARGER 330XLHD CHAMBER SHALL HAVE 18 CORRUGATIONS.
 - THE ENDWALL OF THE CHAMBER, WHEN PRESENT, SHALL BE AN INTEGRAL PART OF THE CONTINUOUSLY FORMED UNIT. SEPARATE END PLATES CANNOT BE USED WITH THIS UNIT.
 - THE RECHARGER 330XLHD STAND ALONE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO FULLY FORMED INTEGRAL ENDWALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS.
 - THE RECHARGER 330XLHD STARTER UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL ENDWALL AND ONE PARTIALLY FORMED INTEGRAL ENDWALL WITH A LOWER TRANSFER OPENING OF 14 INCHES (356 mm) HIGH X 34.5 INCHES (876 mm) WIDE.
 - THE RECHARGER 330XLHD INTERMEDIATE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY OPEN ENDWALL AND ONE PARTIALLY FORMED INTEGRAL ENDWALL WITH A LOWER TRANSFER OPENING OF 14 INCHES (356 mm) HIGH X 34.5 INCHES (876 mm) WIDE.
 - THE RECHARGER 330XLHD END UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL ENDWALL AND ONE FULLY OPEN END WALL AND HAVING NO SEPARATE END PLATES OR END WALLS.
 - THE HVLV FC-24 FEED CONNECTOR MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT SHALL FIT INTO THE SIDE PORTALS OF THE RECHARGER 330XLHD AND ACT AS CROSS FEED CONNECTIONS.
 - CHAMBERS MUST HAVE HORIZONTAL STIFFENING FLEX REDUCTION STEPS BETWEEN THE RIBS.
 - THE CHAMBER SHALL HAVE A 6 INCH (152 mm) DIAMETER RAISED INTEGRAL CAP AT THE TOP OF THE ARCH IN THE CENTER OF EACH UNIT TO BE USED AS AN OPTIONAL INSPECTION PORT OR CLEAN-OUT.
 - THE UNITS MAY BE TRIMMED TO CUSTOM LENGTHS BY CUTTING BACK TO ANY CORRUGATION.
 - THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2015 CERTIFIED FACILITY.
 - MAXIMUM ALLOWED COVER OVER TOP OF UNIT SHALL BE 12 FEET (3.66 m)
 - THE CHAMBER SHALL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.

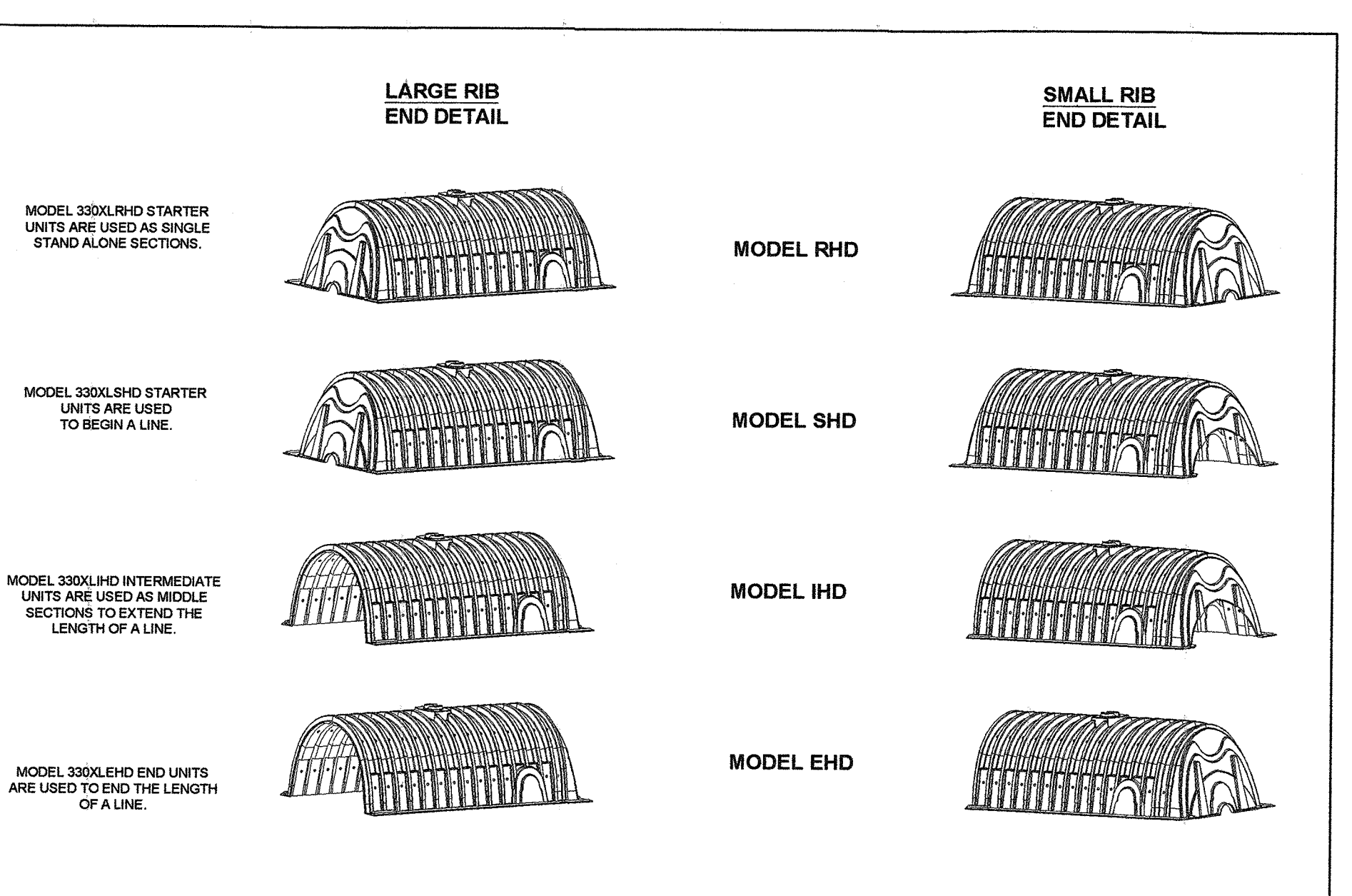
- CULTEC HVLV FC-24 FEED CONNECTOR PRODUCT SPECIFICATIONS**
- GENERAL**
CULTEC HVLV FC-24 FEED CONNECTORS ARE DESIGNED TO CREATE AN INTERNAL MANIFOLD FOR CULTEC RECHARGER MODEL 330XLHD STORMWATER CHAMBERS.
- CHAMBER PARAMETERS**
- THE CHAMBERS SHALL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT, USA. (203-775-4416 OR 1-800-428-5832)
 - THE CHAMBER SHALL BE VACUUM THERMOFORMED OF HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE) WITH A BLACK INTERIOR AND BLUE EXTERIOR.
 - THE CHAMBER SHALL BE ARCHED IN SHAPE.
 - THE CHAMBER SHALL BE OPEN-BOTTOMED.
 - THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV FC-24 FEED CONNECTOR SHALL BE 12 INCHES (305 mm) TALL, 16 INCHES (406 mm) WIDE AND 24.2 INCHES (614 mm) LONG.
 - THE NOMINAL STORAGE VOLUME OF THE HVLV FC-24 FEED CONNECTOR SHALL BE 0.913 FT³ / FT (0.085 m³ / m) - WITHOUT STONE.
 - THE HVLV FC-24 FEED CONNECTOR CHAMBER SHALL HAVE 2 CORRUGATIONS.
 - THE HVLV FC-24 FEED CONNECTOR MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END WALLS. THE UNIT SHALL FIT INTO THE SIDE PORTALS OF THE CULTEC RECHARGER STORMWATER CHAMBER AND ACT AS CROSS FEED CONNECTIONS CREATING AN INTERNAL MANIFOLD.
 - THE CHAMBER SHALL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
 - THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2015 CERTIFIED FACILITY.
- CULTEC NO. 410™ NON-WOVEN GEOTEXTILE**
CULTEC NO. 410™ NON-WOVEN GEOTEXTILE MAY BE USED WITH CULTEC CONTACTOR® AND RECHARGER STORMWATER INSTALLATIONS TO PROVIDE A BARRIER THAT PREVENTS SOIL INTRUSION INTO THE STONE.
- GEOTEXTILE PARAMETERS**
- THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, INC. OF BROOKFIELD, CT, (203-775-4416 OR 1-800-428-5832)
 - THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.
 - THE GEOTEXTILE SHALL HAVE A TYPICAL WEIGHT OF 4.5 OZ/SY (142 G/M).
 - THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH VALUE OF 120 LBS (533 N) PER ASTM D4632 TESTING METHOD.
 - THE GEOTEXTILE SHALL HAVE AN ELONGATION @ BREAK VALUE OF 50% PER ASTM D4632 TESTING METHOD.
 - THE GEOTEXTILE SHALL HAVE A MULLEN BURST VALUE OF 225 PSI (1551 KPA) PER ASTM D3786 TESTING METHOD.
 - THE GEOTEXTILE SHALL HAVE A PUNCTURE STRENGTH VALUE OF 65 LBS (289 N) PER ASTM D4833 TESTING METHOD.
 - THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE VALUE OF 340 LBS (1513 N) PER ASTM D6241 TESTING METHOD.
 - THE GEOTEXTILE SHALL HAVE A TRAPEZOID TEAR VALUE OF 50 LBS (222 N) PER ASTM D4533 TESTING METHOD.
 - THE GEOTEXTILE SHALL HAVE A UV STABILITY @ 500 HOURS VALUE OF 70% PER ASTM D4355 TESTING METHOD.
 - THE GEOTEXTILE SHALL HAVE A PERMITTIVITY VALUE OF 1.7 SEC-1 PER ASTM D4491 TESTING METHOD.
 - THE GEOTEXTILE SHALL HAVE A WATER FLOW RATE VALUE OF 135 GAL/MIN/SF (500 L/MIN/SQ) PER ASTM D4491 TESTING METHOD.
 - THE GEOTEXTILE SHALL HAVE A UV STABILITY @ 500 HOURS VALUE OF 70% PER ASTM D4355 TESTING METHOD.
- CULTEC NO. 4800™ WOVEN GEOTEXTILE**
CULTEC NO. 4800 WOVEN GEOTEXTILE IS DESIGNED AS AN UNDERLAYMENT TO PREVENT SCOURING CAUSED BY WATER MOVEMENT WITHIN THE CULTEC CHAMBERS AND FEED CONNECTORS UTILIZING THE CULTEC MANIFOLD FEATURE. IT MAY ALSO BE USED AS A COMPONENT OF THE CULTEC SEPARATOR ROW TO ACT AS A BARRIER TO PREVENT SOIL/CONTAMINANT INTRUSION INTO THE STONE WHILE ALLOWING FOR MAINTENANCE.
- GEOTEXTILE PARAMETERS**
- THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, INC. OF BROOKFIELD, CT, (203-775-4416 OR 1-800-428-5832)
 - THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.
 - THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH OF 550 X 550 LBS (2,448 X 2,448 N) PER ASTM D4632 TESTING METHOD.
 - THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH @ 2% STRAIN OF 960 X 1,095 LBS/FT (14 X 16 KN/M) PER ASTM D4595 TESTING METHOD.
 - THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH @ 5% STRAIN OF 2,740 X 2,740 LBS/FT (40 X 40 KN/M) PER ASTM D4595 TESTING METHOD.
 - THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH @ 10% STRAIN OF 4,800 X 4,800 LBS/FT (70 X 70 KN/M) PER ASTM D4595 TESTING METHOD.
 - THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE RESISTANCE OF 1,700 LBS (7,660 N) PER ASTM D6241 TESTING METHOD.
 - THE GEOTEXTILE SHALL HAVE A TRAPEZOIDAL TEAR RESISTANCE OF 180 X 180 LBS (801 X 801 N) PER ASTM D4533 TESTING METHOD.
 - THE GEOTEXTILE SHALL HAVE AN APPARENT OPENING SIZE OF 40 US STD. SIEVE (0.425 MM) PER ASTM D4751 TESTING METHOD.
 - THE GEOTEXTILE SHALL HAVE A PERMITTIVITY RATING OF 0.15 SEC-1 PER ASTM D4491 TESTING METHOD.
 - THE GEOTEXTILE SHALL HAVE A WATER FLOW RATING OF 11.5 GPM/FT2 (470 LPM/M2) PER ASTM D4491 TESTING METHOD.
 - THE GEOTEXTILE SHALL HAVE A UV RESISTANCE OF 80% @ 500 HRS. PER ASTM D4355 TESTING METHOD.



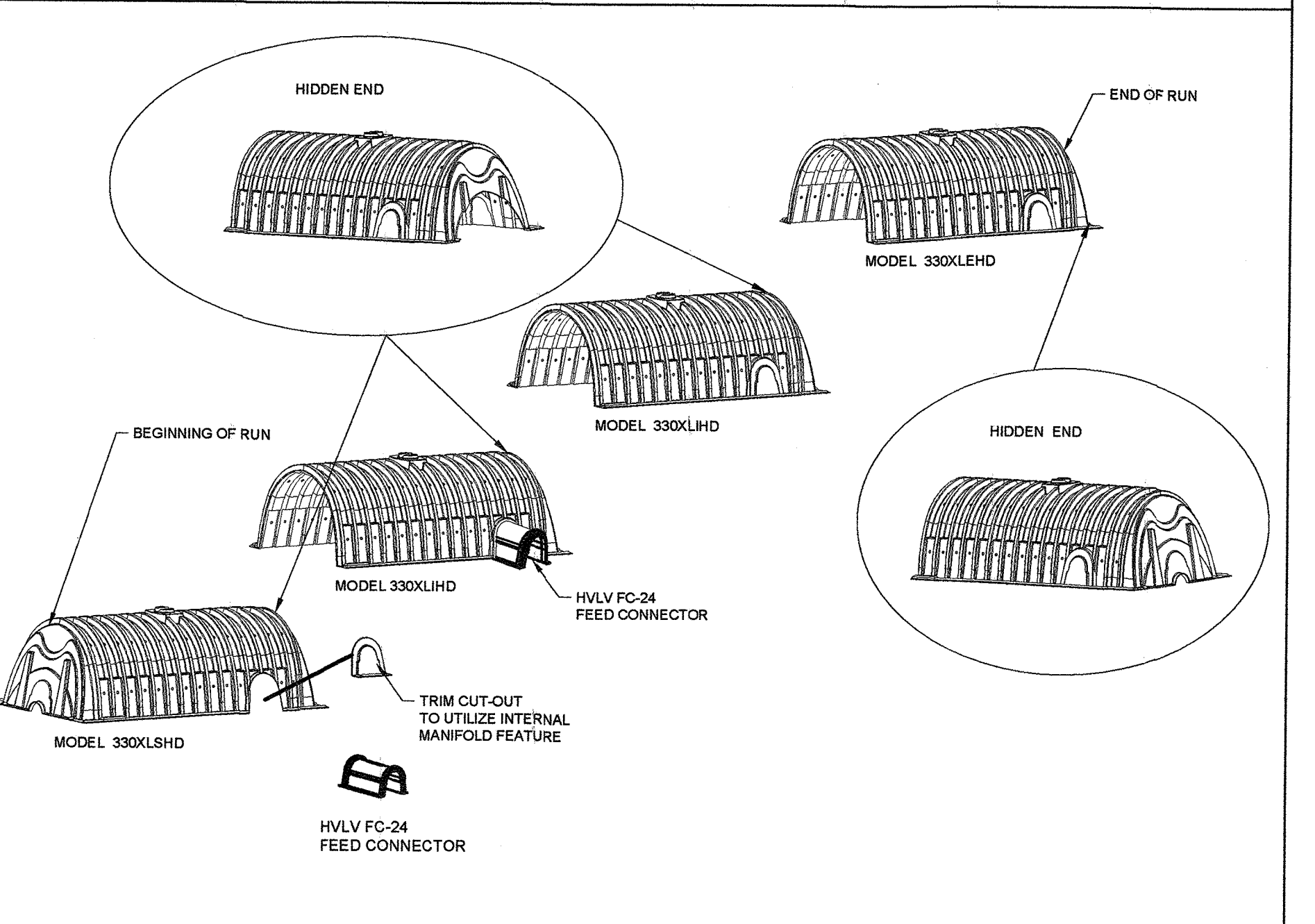
CULTEC RECHARGER 330XLHD HEAVY DUTY THREE VIEW



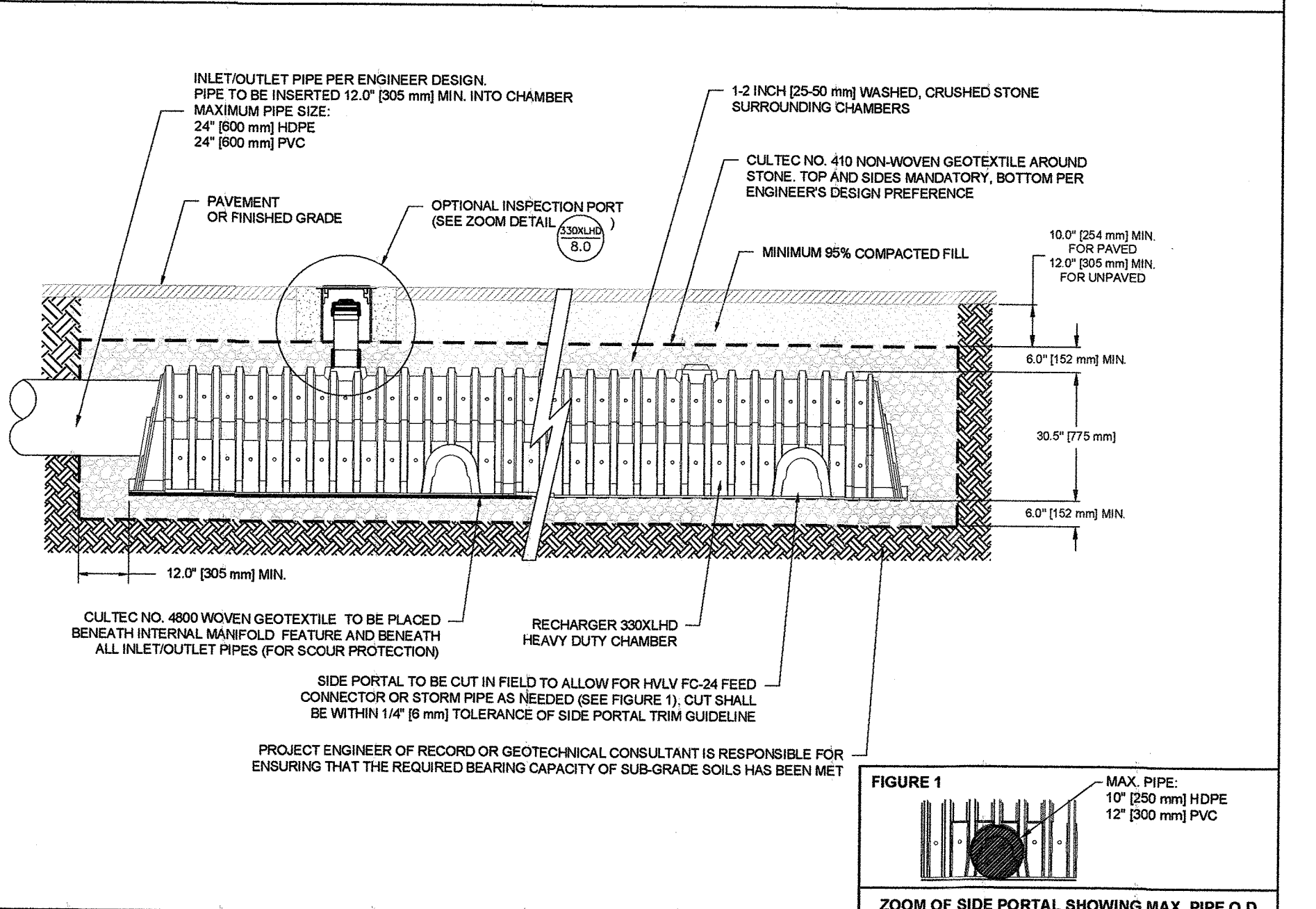
CULTEC RECHARGER 330XLHD HEAVY DUTY CROSS SECTION



RECHARGER 330XLHD HEAVY DUTY END INFORMATION

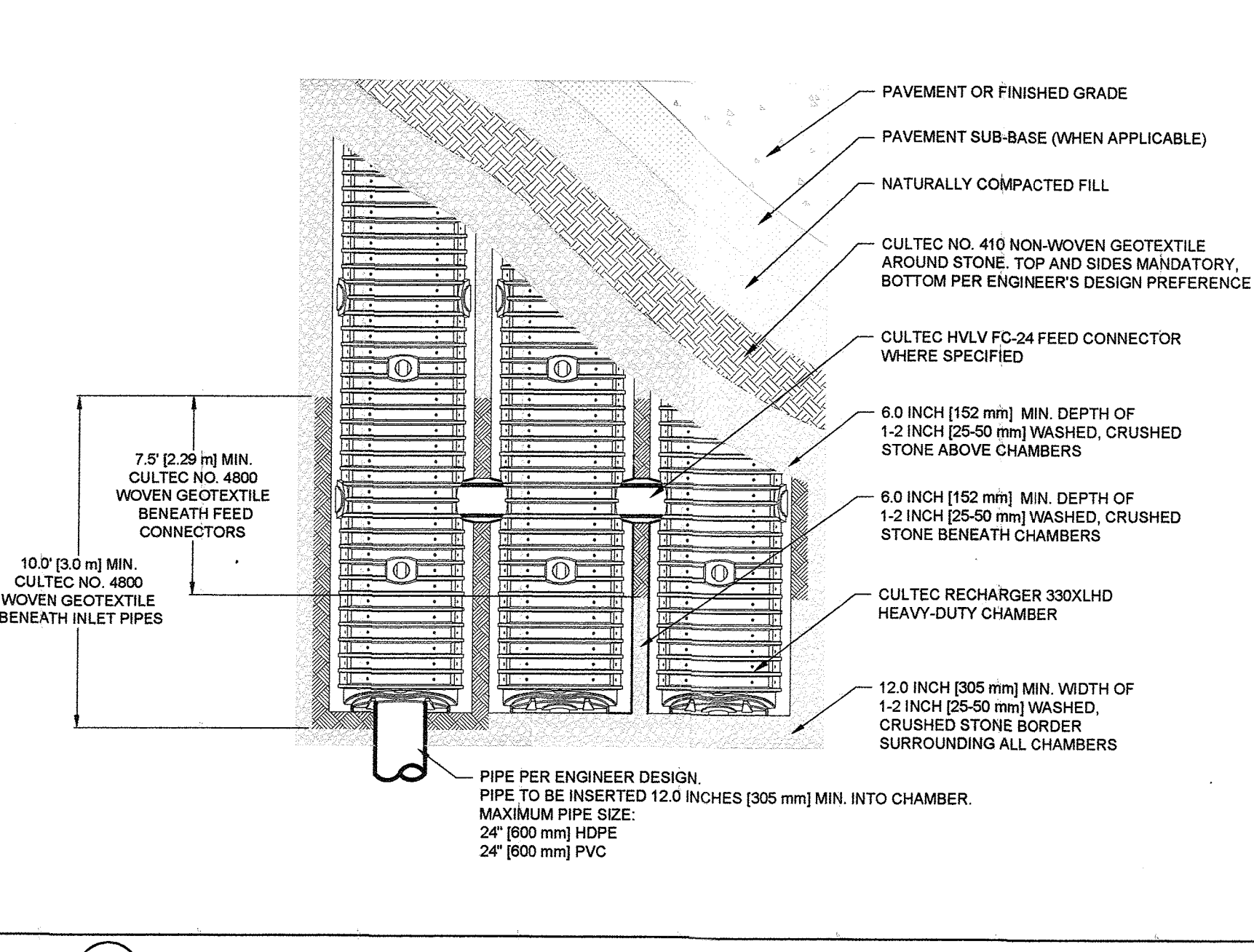


RECHARGER 330XLHD HEAVY DUTY TYPICAL INTERLOCK

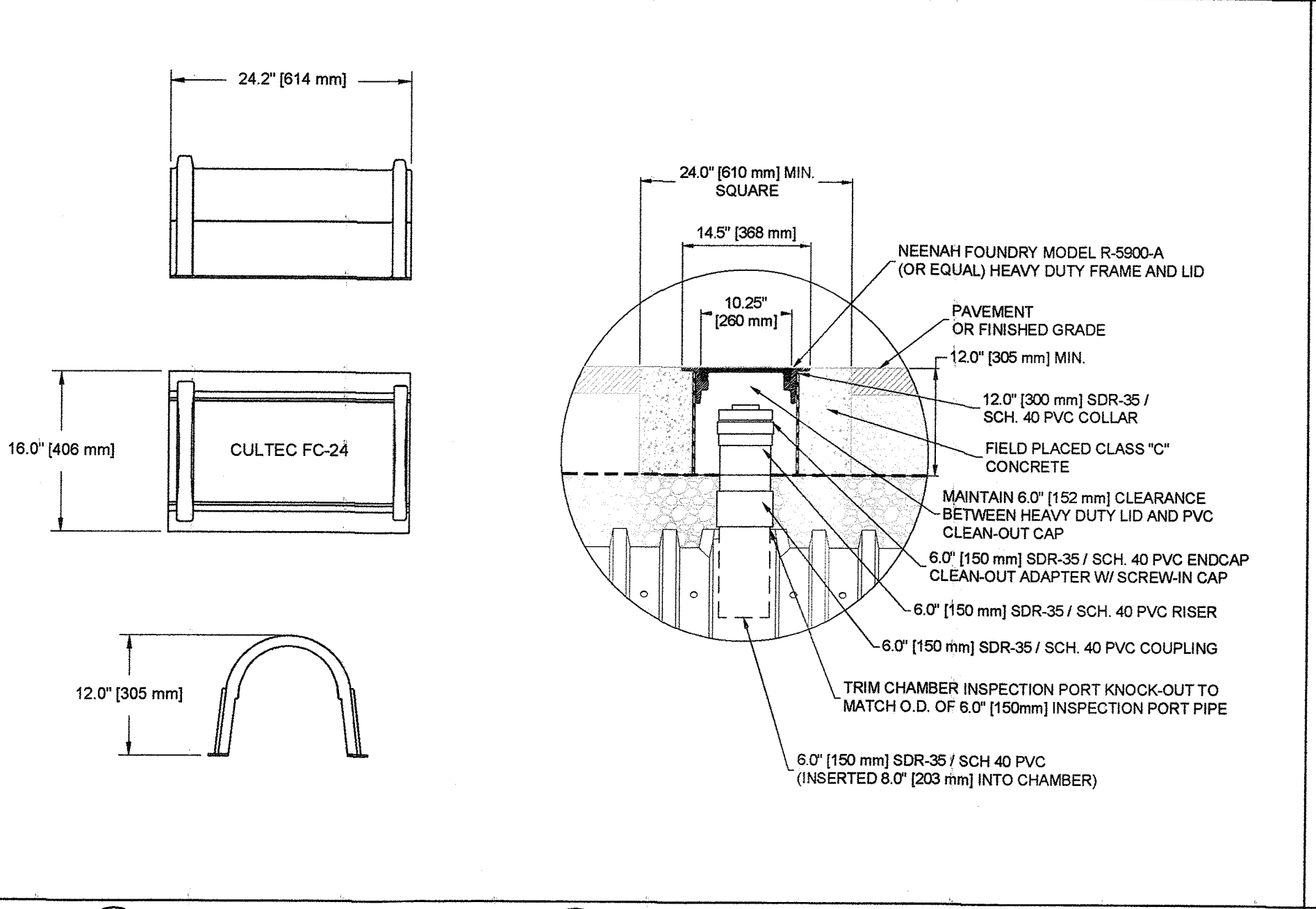


INTERNAL MANIFOLD- INSPECTION PORT DETAIL

GENERAL NOTES



CULTEC RECHARGER 330XLHD HEAVY DUTY PLAN VIEW



CULTEC HVLV FC-24 FEED CONNECTOR THREE VIEW INSPECTION PORT- ZOOM DETAIL

REVISIONS:

IF IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW, ARTICLE 140 FOR ANY PERSON, INDIVIDUAL OR FIRM, TO ACT AS AN ENGINEER OR ARCHITECT WITHOUT BEING LICENSED BY THE STATE OF NEW YORK, THE ENGINEER OR ARCHITECT SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY LICENSES AND REGISTERING WITH THE STATE OF NEW YORK. THE ENGINEER OR ARCHITECT SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY LICENSES AND REGISTERING WITH THE STATE OF NEW YORK. THE ENGINEER OR ARCHITECT SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY LICENSES AND REGISTERING WITH THE STATE OF NEW YORK.

PROJECT:
**1050 ROUTE 9W
NYACK, NY**

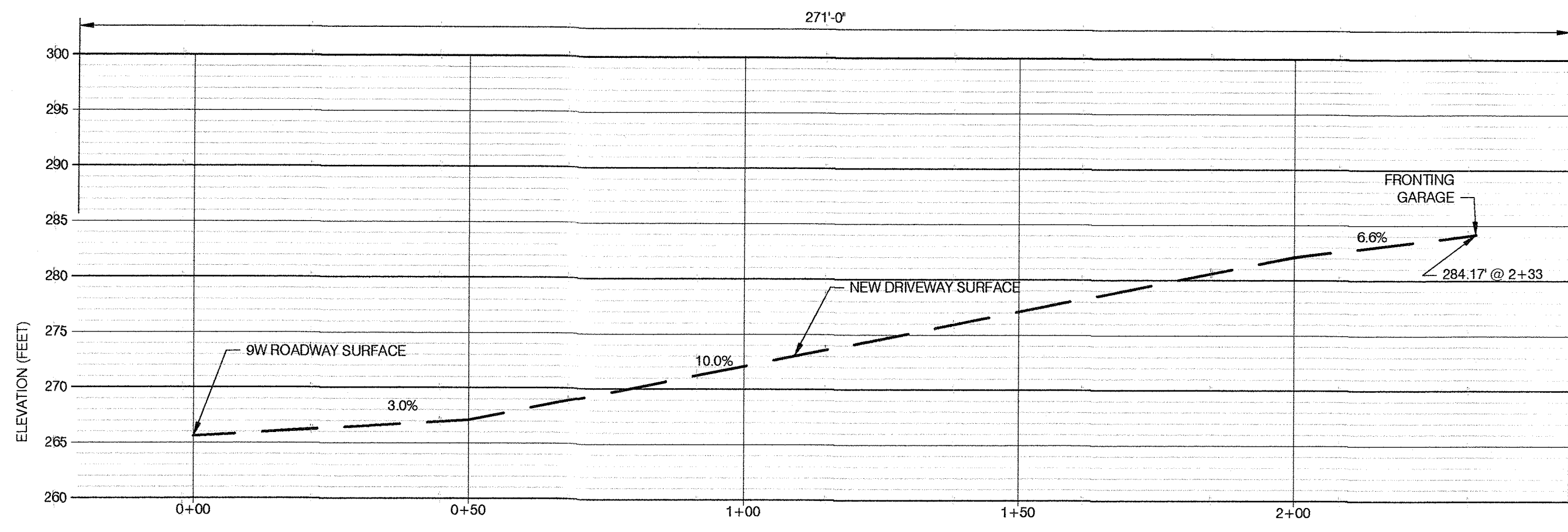
CULTEC DETAILS

SEAL & SIGNATURE:

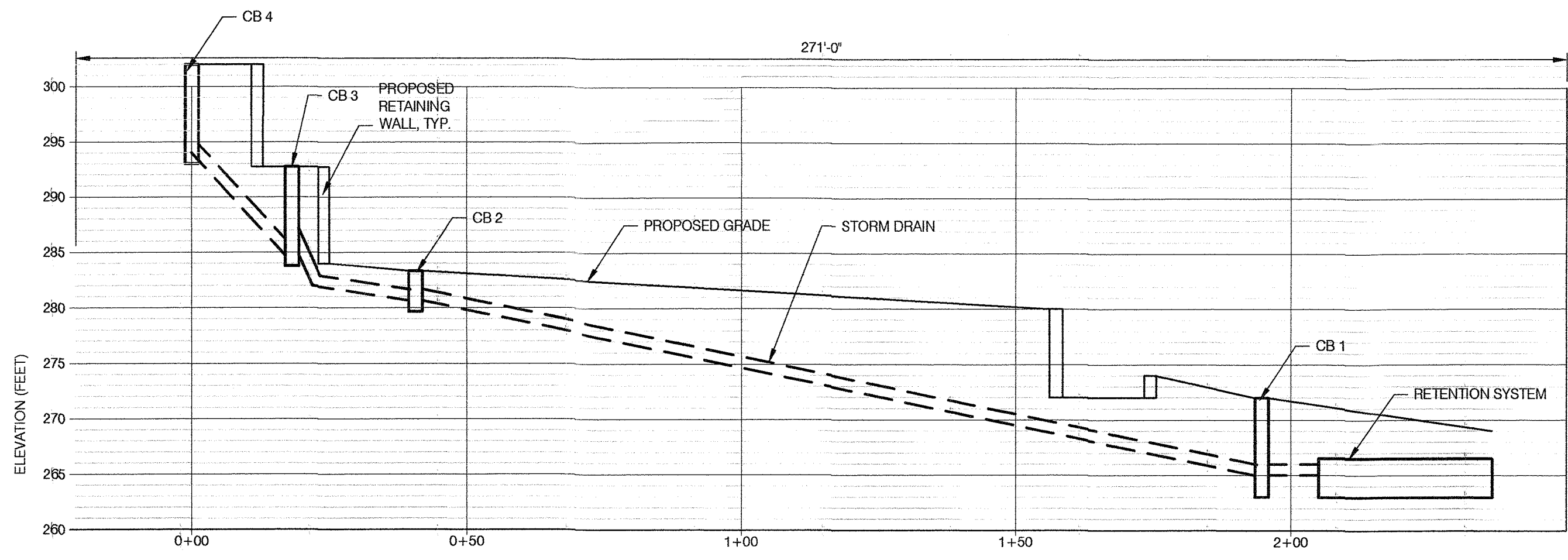


JOREL J. VACCARO, PE
NY PE 093862

DATE: 10/20/2021
PROJECT #: 19071
DRAWN/CHECKED: JJV
SCALE: AS NOTED
PAGE: 08 OF 10



10%
A DRIVEWAY PROFILE
SCALE: 1" = 20'-0" HORIZ, 1" = 10'-0" VERT.



B STORM SYSTEM PROFILE
SCALE: 1" = 20'-0" HORIZ, 1" = 10'-0" VERT.

REVISIONS:

IT IS A VIOLATION OF NEW YORK STATE EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER, TO ALTER THIS DRAWING IN ANY WAY.
THE ENTIRE CONTENTS OF THIS DOCUMENT, INCLUDING ALL SHEETS, PLANS, SPECIFICATIONS, SCHEDULES, AND SPECIFICATIONS, AND ALL COPYRIGHTS THEREIN, ARE THE SOLE PROPERTY OF KRYPTON ENGINEERING, PLLC. NO DOCUMENT OR PART THEREOF MAY BE USED, PHOTOCOPIED OR REPRODUCED IN ANY MANNER, ELECTRONICALLY OR IN ANY OTHER MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF KRYPTON ENGINEERING, PLLC. ORIGINAL SHEET SIZE 24X36

PROJECT:
**1050 ROUTE 9W
NYACK, NY**

**PROFILES
STORM & PAVEMENT**

SEAL & SIGNATURE:



JOREL J. VACCARO, PE
NY PE 093362
DATE: 10/20/2021
PROJECT #: 19071
DRAWN/CHECKED: JJV
SCALE: NOTED
PAGE: 09 OF 10

REVISIONS:

PROJECT:

1050 ROUTE 9W
NYACK, NY

EROSION CONTROL

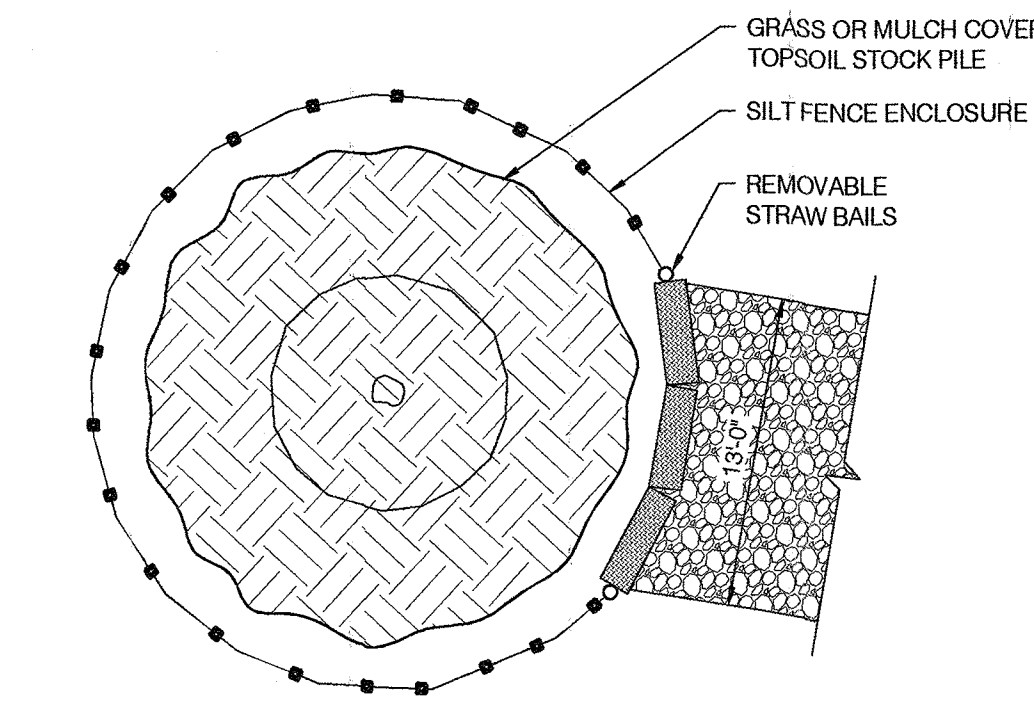
SEAL & SIGNATURE:



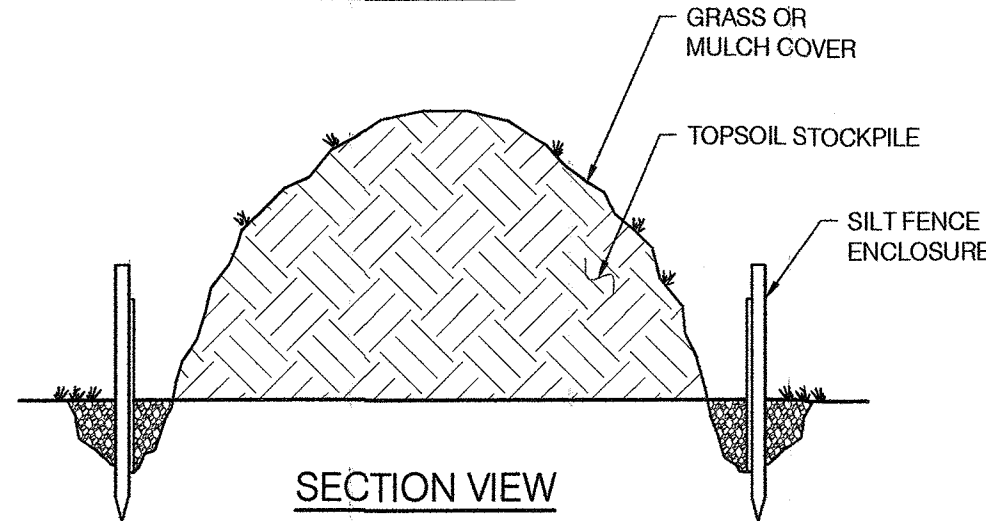
JOREL J. VACCARO, PE
NY PE 093362

DATE: 10/20/2021
PROJECT #: 19071
DRAWN/CHECKED: JJV
SCALE: NTS
PAGE: 10 OF 10

C-400.00



PLAN VIEW



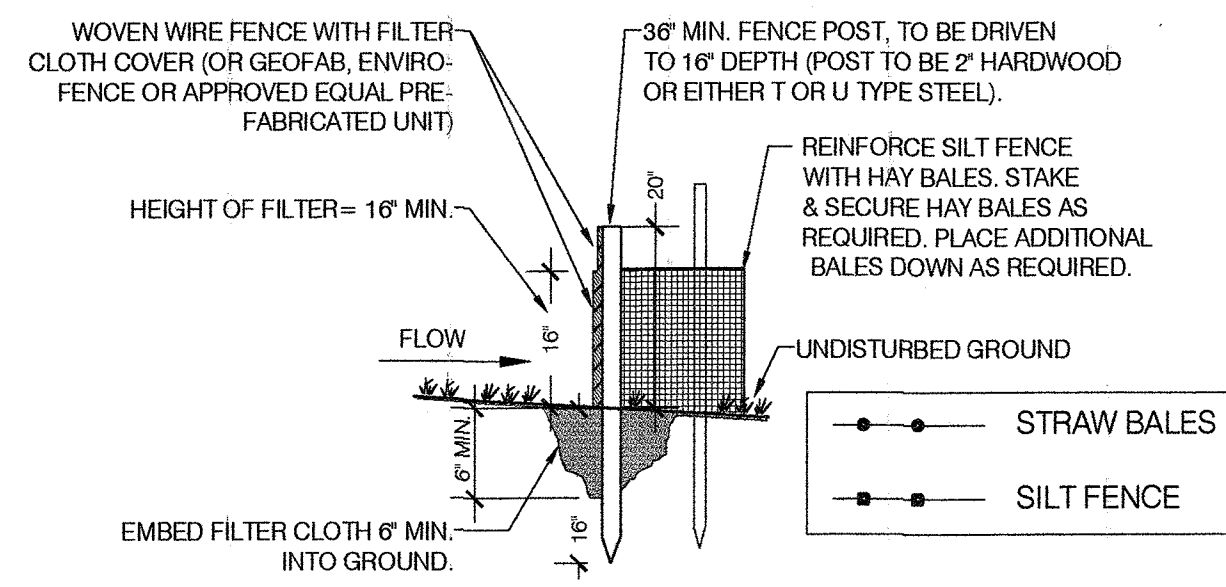
SECTION VIEW

NOTES:

- 1-TOPSOIL REMOVED DURING SITE PREPARATION SHALL BE STOCKPILED ON-SITE FOR FUTURE USE IN SITE RECLAMATION AND REVEGETATION.
- 2- SOIL STOCKPILE SHALL BE ENCLOSED WITH SILT FENCING WITH PASSAGEWAY PROVIDED FOR EQUIPMENT ACCESS.
- 3- PROVIDE TEMPORARY GRASS OR MULCH COVER IF STOCKPILE IS TO REMAIN UNDISTURBED FOR THIRTY DAYS OR MORE. TEMPORARY COVER SHALL CONSIST OF ONE OF THE FOLLOWING MEASURES:
 - GRASS SEED: 1/2 LB. RYE GRASS /1000S.F
 - MULCH: 100LBS OF STRAW OR HAY/1000S.F

1 DETAIL - SOIL STOCKPILE

SCALE: NTS

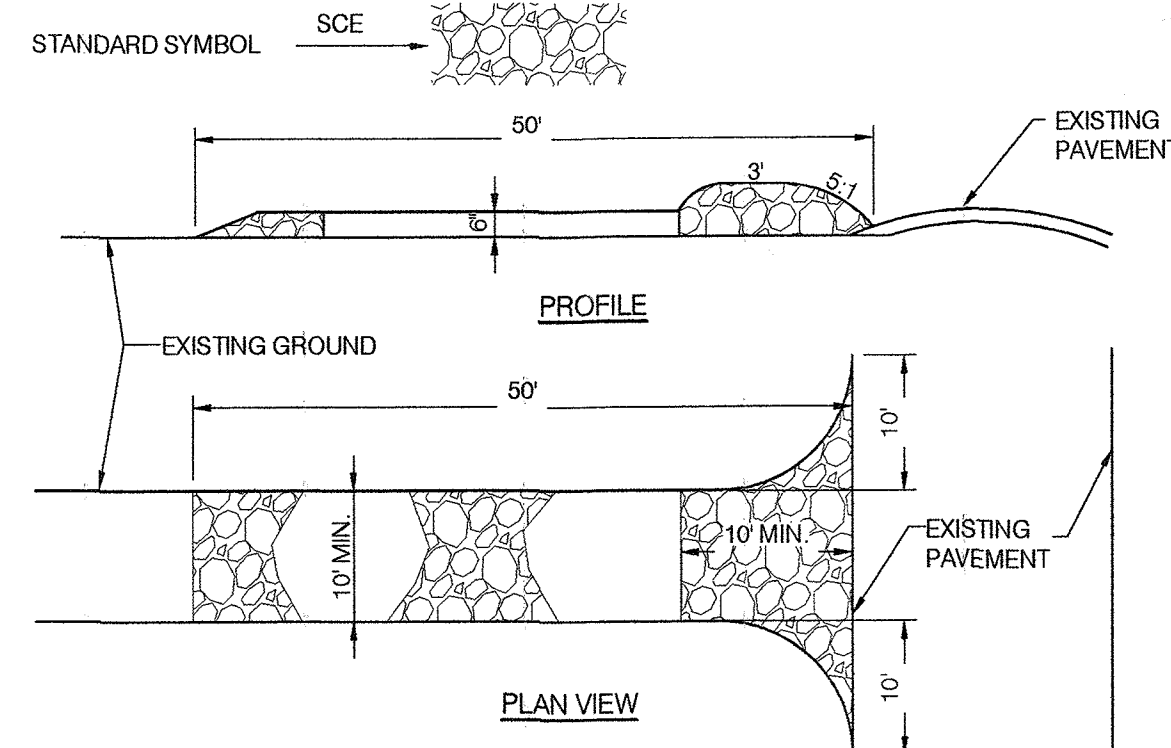


NOTES:

- 1- POST SPACING TO BE 10' MAX. O.C.
- 2- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- 3- WOVEN WIRE FENCE TO BE 14 GA. MIN., 6" MAX. SPACING.
- 4- FILTER CLOTH TO BE FILTER X, MIRAFI 100X OR APPROVED EQUAL.
- 5- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE, WITH WIRE TIES SPACED EVERY 24" AT TOP AND MID SECTION.
- 6- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY SIX INCHES, FOLDED AND STAPLED OR TIED TO A POST (PROVIDE POST AT SPLICE).
- 7- MAINTENANCE SHALL BE PERFORMED AS NEEDED, AND MATERIAL REMOVED WHEN BULGES DEVELOP IN THE SILT FENCE.
- 8- BALES SHALL BE PLACED AT THE TOE OF SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
- 9- EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
- 10- BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR REBARS 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 1 1/2' TO 2' INTO THE GROUND AND FLUSH WITH THE BALE.
- 11- INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- 12- BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

2 DETAIL - SILT FENCE

SCALE: NTS



CONSTRUCTION SPECIFICATIONS:

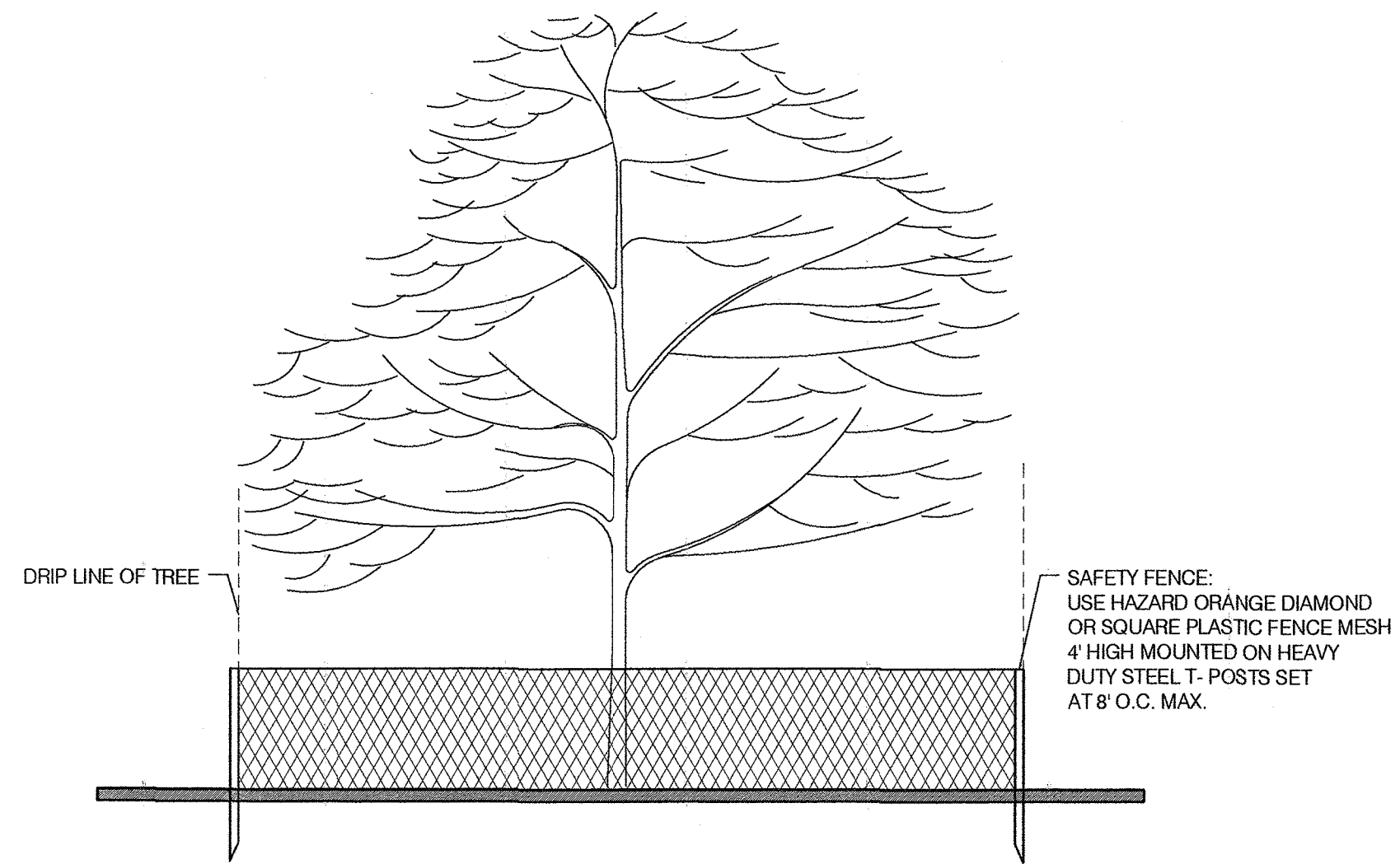
- 1- STONE SIZE - USE 2" STONE OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- 2- LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
- 3- THICKNESS - NOT LESS THAN (6) INCHES.
- 4- WIDTH - TEN (10) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- 5- FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT.
- 6- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCE SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 3:1 SLOPE WILL BE PERMITTED.
- 7- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANING OF ANY MEASURE USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.
- 8- WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAYS. 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.

4 STABILIZED CONSTRUCTION ENTRANCE

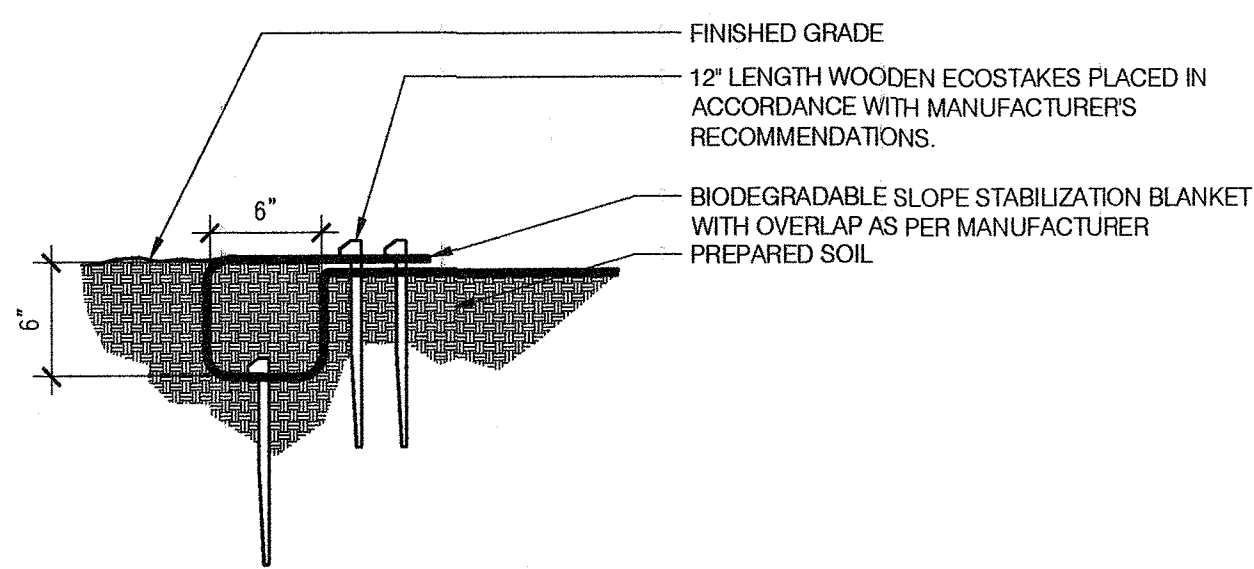
SCALE: NTS

EROSION CONTROL:

1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN STATE STANDARDS AND WILL BE INSTALLED IN PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT STABILIZATION IS ESTABLISHED.
2. ANY DISTURBED AREA THAT WILL BE LEFT EXPOSED FOR MORE THAN THIRTY (30) DAYS AND NOT SUBJECTED TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE TEMPORARY SEEDING AND MULCHING. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREA WILL BE MULCHED WITH SALT HAY OR EQUIVALENT AND BOUND IN ACCORDANCE WITH THE NY STANDARDS (I.E. PEG AND TWINE, MULCH NETTING, OR LIQUID MULCH BINDER). SOIL STABILIZATION WILL OCCUR AFTER 14 DAYS OF BEING EXPOSED.
3. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECTED TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR SUITABLE EQUIVALENT, AT A RATE OF 2 TONS PER ACRE, ACCORDING TO NY STANDARDS.
4. STABILIZATION SPECIFICATIONS:
 - A. TEMPORARY SEEDING AND MULCHING:
 - TOPSOIL - UNIFORM APPLICATION TO A DEPTH OF 5" (UNSETTLED).
 - LIME - 90 LBS./1,000 SF GROUND LIMESTONE; FERTILIZER - 11 LBS./1,000 SF, 10-20-10 OR EQUIVALENT WORKED INTO THE SOIL A MINIMUM OF 4".
 - SEED - PERENNIAL RYE GRASS 40 LBS./ACRE (1 LB./1,000 SF) OR OTHER APPROVED SEEDS; PLANT BETWEEN MARCH 1 AND MAY 15 OR BETWEEN AUGUST 15 AND OCTOBER 1.
 - MULCH - SALT HAY OR SMALL GRAIN STRAW AT A RATE OF 70 TO 90 LBS./1,000 SF TO BE APPLIED ACCORDING TO THE NY STANDARDS. MULCH SHALL BE SECURED BY APPROVED METHODS (I.E. PEG AND TWINE, MULCH NETTING, OR LIQUID MULCH BINDER).
 - B. PERMANENT SEEDING AND MULCHING:
 - TOPSOIL - UNIFORM APPLICATION TO A DEPTH OF 5" (UNSETTLED).
 - LIME - 90 LBS./1,000 SF GROUND LIMESTONE; FERTILIZER - 11 LBS./1,000 SF, 10-20-10 OR EQUIVALENT WORKED INTO THE SOIL A MINIMUM OF 4".
 - SEED TURF-TYPE TALL FESCUE (BLEND OF 3 CULTIVARS) 150 LBS./ACRE (3.6 LBS./1,000 SF) OR OTHER APPROVED SEED; PLANT BETWEEN MARCH 1 AND OCTOBER 15.
 - MULCH - SALT HAY OR SMALL GRAIN STRAW AT A RATE OF 70 TO 90 LBS./1,000 SF TO BE APPLIED ACCORDING TO THE NY STANDARDS. MULCH SHALL BE SECURED BY APPROVED METHODS (I.E. PEG AND TWINE, MULCH NETTING OR LIQUID BINDER).
5. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORM WATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
6. SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS, INCLUDING AFTER EVERY STORM EVENT.
7. STOCKPILES ARE NOT TO BE LOCATED WITHIN 50' OF A FLOOD PLAIN SLOPE, ROADWAY OR DRAINAGE FACILITY. THE BASE OF ALL STOCKPILES SHALL BE CONTAINED BY A STRAW BALE SEDIMENT BARRIER AND/OR SILT FENCE.
8. A CRUSHED STONE, VEHICLE WHEEL-CLEANING BLANKET WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS ROAD INTERSECTS ANY PAVED ROADWAY. SAID BLANKET WILL BE COMPOSED OF 1" - 2" CRUSHED STONE, 6" THICK, WILL BE AT LEAST 30' X 100' AND SHOULD BE UNDERLAIN WITH A SUITABLE SYNTHETIC SEDIMENT FILTER FABRIC AND MAINTAINED.
9. MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT EXCEED 3:1 UNLESS OTHERWISE APPROVED BY THE ENGINEER.
10. DRIVEWAYS MUST BE STABILIZED WITH 1" - 2" CRUSHED STONE OR SUBBASE PRIOR TO INDIVIDUAL LOT CONSTRUCTION.
11. ALL SOIL, WASHED, DROPPED, SPILLED OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR INTO PUBLIC RIGHT-OF-WAYS, WILL BE REMOVED IMMEDIATELY. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
12. CATCH BASIN INLETS WILL BE PROTECTED WITH AN INLET FILTER DESIGNED IN ACCORDANCE WITH NY STANDARDS.
13. STORM DRAINAGE OUTLETS WILL BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
14. DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT CONTROL BAG OR OTHER APPROVED FILTER IN ACCORDANCE WITH NY STANDARDS.
15. DUST SHALL BE CONTROLLED VIA THE APPLICATION OF WATER, CALCIUM CHLORIDE OR OTHER APPROVED METHOD IN ACCORDANCE WITH NY STANDARDS.
16. TREES TO REMAIN AFTER CONSTRUCTION ARE TO BE PROTECTED WITH A SUITABLE FENCE INSTALLED AT THE DRIP LINE OR BEYOND IN ACCORDANCE WITH NY STANDARDS.
17. THE PROJECT OWNER SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORM WATER OUTFALLS OR OFF-SITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.
18. ANY REVISION TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO IMPLEMENTATION IN THE FIELD.
19. A COPY OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE AVAILABLE AT THE PROJECT SITE THROUGHOUT CONSTRUCTION.
20. SILT FENCING SHALL BE ADJUSTED IN FIELD AND NOT ENCRONCH ONTO EXISTING TREES TO REMAIN AND SHALL ENCOMPASS LIMITS OF DISTURBANCE INCLUDING SEEPAGE PIT LOCATIONS.
21. THE TREE PROTECTION AND PRESERVATION WILL BE IMPLEMENTED IN ORDER TO PROTECT AND PRESERVE BOTH INDIVIDUAL SPECIMEN TREES AND BUFFER AREA WITH MANY TREES. STEPS THAT WILL BE TAKEN TO RESERVE AND PROTECT EXISTING TREES TO REMAIN ARE AS FOLLOWS:
 - A. NO CONSTRUCTION EQUIPMENT SHALL BE PARKED UNDER THE TREE CANOPY.
 - B. THERE WILL BE NO EXCAVATION OR STOCKPILING OF EARTH UNDERNEATH THE TREES.
 - C. TREES DESIGNATED TO BE PRESERVED SHALL BE MARKED CONSPICUOUSLY ON ALL SIDES AT A 5 TO 10 FOOT HEIGHT.
 - D. THE TREE PROTECTION ZONE FOR TREES DESIGNATED TO BE PRESERVED WILL BE ESTABLISHED BY ONE OF THE FOLLOWING METHODS:
 - ONE (1) FOOT RADIUS FROM TRUNK PER INCH DBH.
 - DRIP LINE OF THE TREE CANOPY.
 THE METHOD CHOSEN SHOULD BE BASED ON PROVIDING THE MAXIMUM PROTECTION ZONE POSSIBLE. A BARRIER OF SNOW FENCE OR EQUAL IS TO BE PLACED AND MAINTAINED ONE YARD BEYOND THE ESTABLISHED TREE PROTECTION ZONE. IF IT IS AGREED THAT THE TREE PROTECTION ZONE OF A SELECTED TREE MUST BE VIOLATED, ONE OF THE FOLLOWING METHODS MUST BE EMPLOYED TO MITIGATE THE IMPACT:
 - LIGHT TO HEAVY IMPACTS - MINIMUM OF 8 INCHES OF WOOD CHIPS INSTALLED IN THE AREA TO BE PROTECTED. CHIPS SHALL BE REMOVED UPON COMPLETION OF WORK.
 - LIGHT IMPACT ONLY - INSTALLATION OF 1/2 INCH OF PLYWOOD OR BOARDS, OR EQUAL OVER THE AREA TO BE PROTECTED. THE BUILDER OR ITS AGENT MAY NOT CHANGE GRADE WITHIN THE TREE PROTECTION ZONE OF A PRESERVED TREE UNLESS SUCH GRADE CHANGE HAS RECEIVED FINAL APPROVAL FROM THE PLANNING BOARD. IF THE GRADE LEVEL IS TO BE CHANGED MORE THAN (6) INCHES, TREES DESIGNATED TO BE PRESERVED SHALL BE WELLED AND/OR PRESERVED IN A RAISED BED, WITH THE TREE WELL A RADIUS OF THREE (3) FEET LARGER THAN THE TREE CANOPY.
22. PRIOR TO THE COMMENCEMENT OF ANY SITE WORK, INCLUDING THE REMOVAL OF TREES, THE CONTRACTOR SHALL INSTALL THE SOIL EROSION AND SEDIMENTATION CONTROL AS REQUIRED BY THE DRAWINGS. PRIOR TO THE AUTHORIZATION TO PROCEED WITH ANY PHASE OF THE SITE WORK, THE ENGINEER SHALL BE NOTIFIED IN ADVANCE TO INSPECT THE INSTALLATION OF ALL REQUIRED SOIL EROSION AND SEDIMENTATION CONTROL MEASURES. THE CONTRACTOR SHALL CONTACT THE ENGINEER AT LEAST 48 HOURS IN ADVANCE FOR AN INSPECTION.
23. ALL LANDSCAPING SHOWN ON THE SITE PLANS SHALL BE MAINTAINED IN A VIGOROUS GROWING CONDITION THROUGHOUT THE DURATION OF THE USE OF THIS SITE. ANY PLANTS NOT SO MAINTAINED SHALL BE REPLACED WITH NEW PLANTS AT THE BEGINNING OF THE NEXT IMMEDIATELY FOLLOWING GROWING SEASON.
24. IF THE CONTRACTOR, DURING THE COURSE OF CONSTRUCTION, ENCOUNTERS SUCH CONDITIONS AS FLOOD AREA, UNDERGROUND WATER, SOFT OR SILTY AREAS, IMPROPER DRAINAGE, OR ANY OTHER UNUSUAL CIRCUMSTANCES OR CONDITIONS THAT WERE NOT FORESEEN IN THE ORIGINAL PLANNING, SUCH CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER OF RECORD. THE CONTRACTOR MAY SUBMIT THEIR RECOMMENDATIONS AS TO THE SPECIAL TREATMENT TO BE GIVEN SUCH AREAS TO SECURE ADEQUATE, PERMANENT AND SATISFACTORY CONSTRUCTION.
25. THE CONTRACTOR'S TRAILER, IF ANY IS PROPOSED, SHALL BE LOCATED AS APPROVED BY THE MUNICIPALITY.
26. PERMANENT VEGETATION COVER OF DISTURBED AREAS SHALL BE ESTABLISHED ON THE SITE WITHIN THIRTY (30) DAYS OF THE COMPLETION OF CONSTRUCTION.



- 1- THE PROJECT DEVELOPER SHALL TAKE REASONABLE PRECAUTION TO SAVE SPECIMEN QUALITY TREES IN AREAS NOTED ON THE PLANS FOR CLEARING. WHEN POSSIBLE, THE DEVELOPER SHALL PROTECT INDIVIDUAL SPECIMEN TREES THROUGH THE INSTALLATION OF SAFETY FENCING AROUND THE DRIP LINE PERIMETER OF THE TREE.
- 2- SAFETY FENCING SHALL BE INSTALLED AT THE ONSET OF SITE CONSTRUCTION TO PREVENT VEHICLE TRAFFIC FROM COMPACTING THE SOILS IN THE VICINITY OF THE TREE ROOT



NOTE:

INSTALL SLOPE STABILIZATION BLANKETS - CURLEX II EROSION CONTROL FABRIC OR EQUAL. INSTALL IN ALL AREAS WHERE SLOPE IS 4:1 OR GREATER AND AS SHOWN ON PLANS. PRIOR TO INSTALLING PLANTS, CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SLOPE STABILIZATION BLANKET FOR LENGTH OF CONTRACT.

3 SLOPE STABILIZATION DETAIL

SCALE: NTS

NEW CONSTRUCTION
Cornielle Real State Enterprises
1050 Route 9W
Nyack, N.Y. 10960



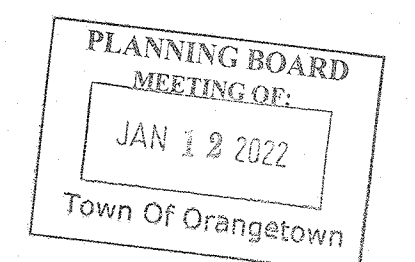
NATURAL STONE SEE ELEVATIONS
FOR SPECIFICATIONS

STO STUCCO FINE SAND SEE
ELEVATIONS FOR SPECIFICATIONS

FRONT ELEVATION

DRAWING LISTS

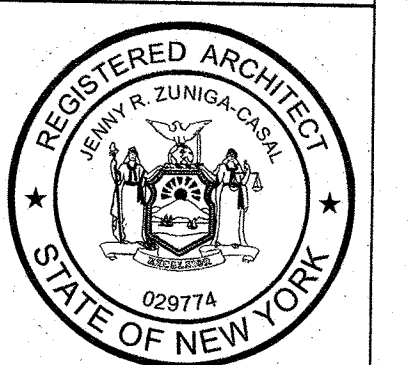
- COVER SHEET & DRAWING LIST
1. GENERAL NOTES; CODE ANALYSIS
2. FOUNDATION PLAN
3. FIRST FLOOR PLAN
4. SECOND FLOOR PLAN
5. ROOF PLAN
6. FRONT ELEVATION AND ROUTE 9W ELEVATION
7. REAR ELEVATION AND SIDE RIGHT ELEVATION
8. WINDOW AND DOOR ELEVATIONS
9. CROSS SECTION
10. CROSS SECTION & CONSTRUCTION DETAILS

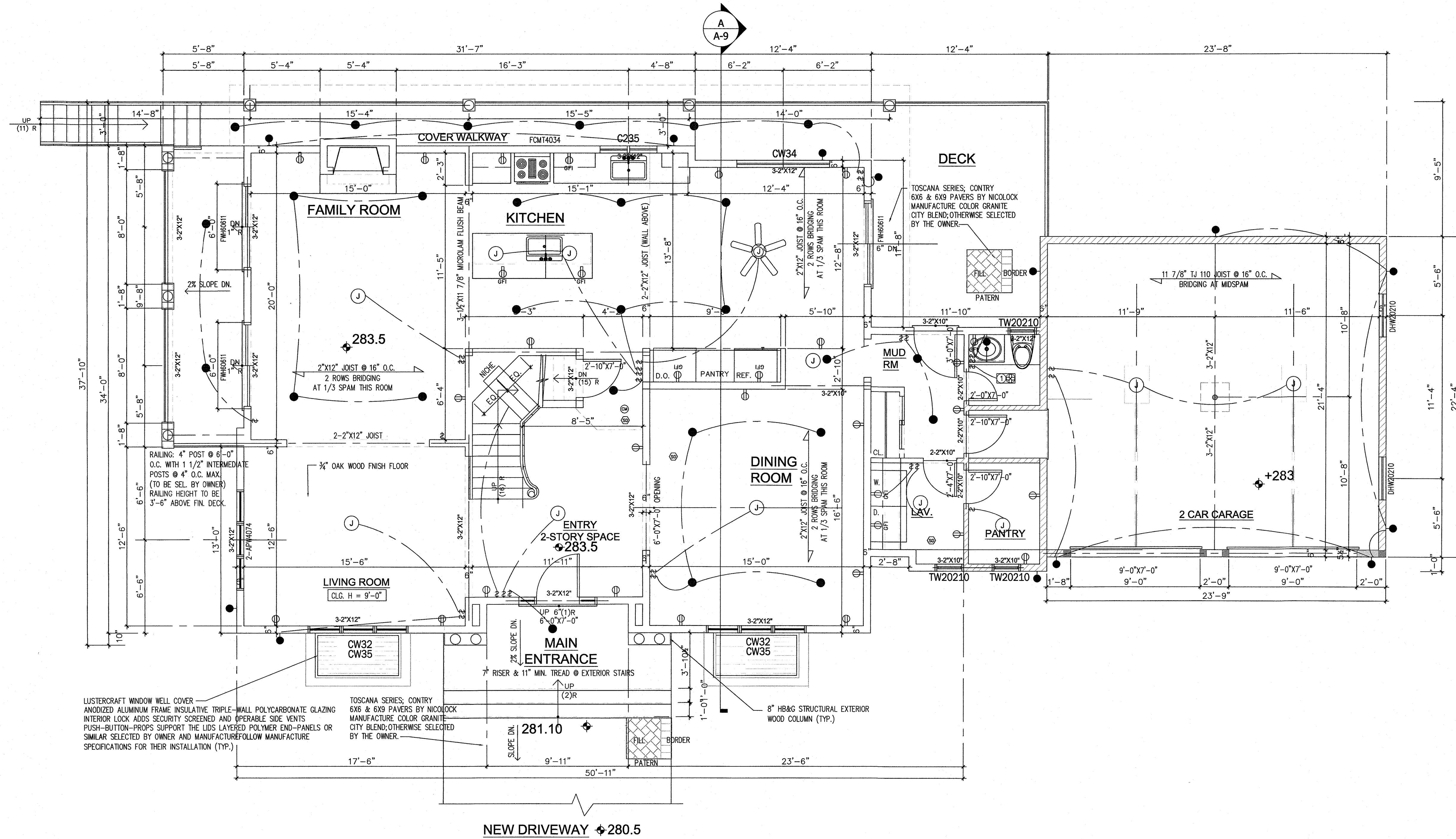
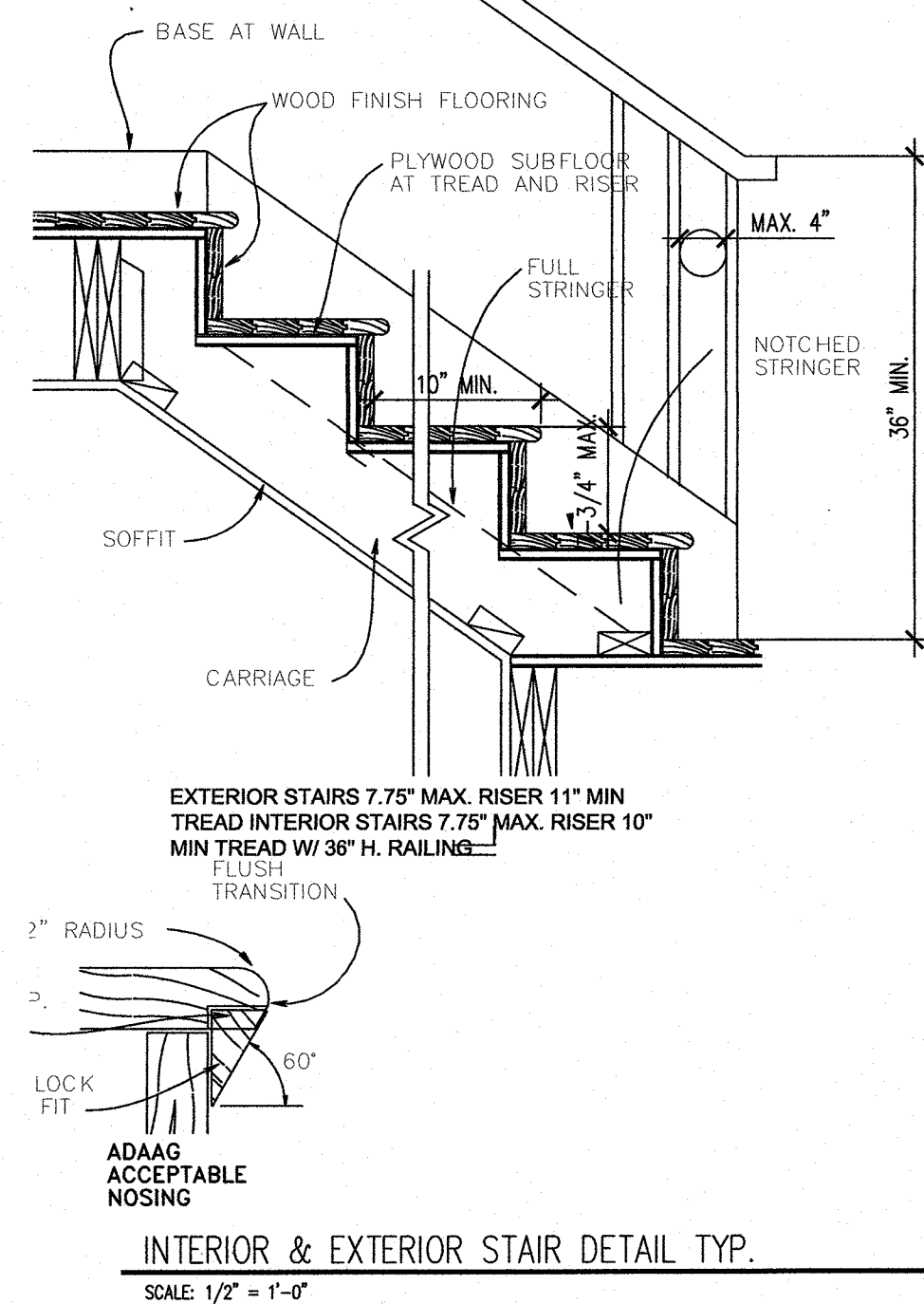


Jenny R. Zuniga-Casal
ARCHITECT

Jenny R. Zuniga-Casal Architecture LLC

77 Sierra Vista Lane, Valley Cottage, NY, 10989
Tel: 845.598.1613 Fax: 845.512.8290
Email: jzuniga000@msn.com





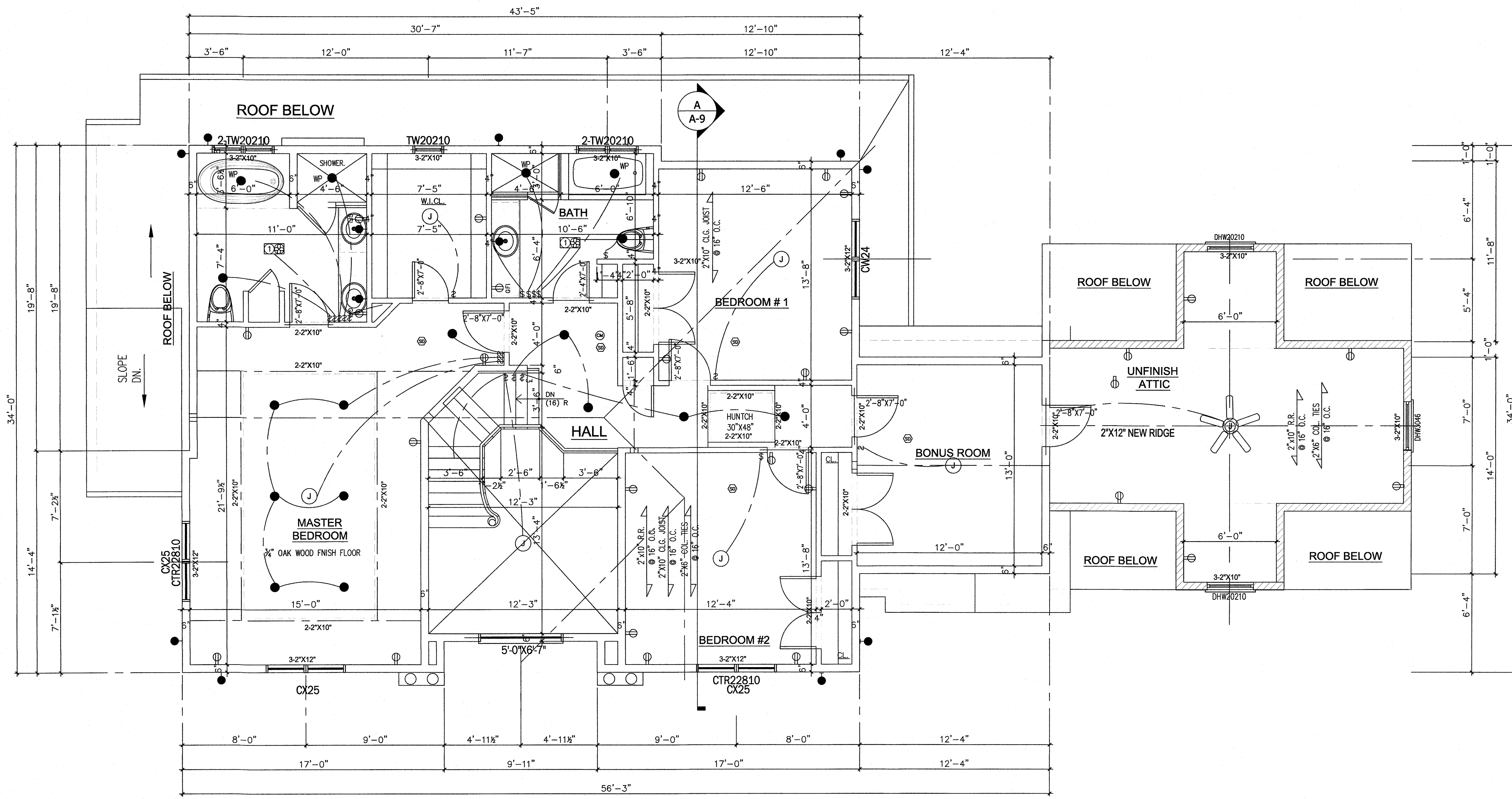
FIRST FLOOR PLAN
SCALE: 1/4"=1'-0"

LEGEND	
[Symbol]	FLOOR RECEPTACLE
[Symbol]	DUPLEX RECEPTACLE
[Symbol]	DUPLEX RECEPTACLE
[Symbol]	GFI
[Symbol]	QUADRUPLUX RECEPTACLE
[Symbol]	DEDICATED APPLIANCE CIRCUIT
[Symbol]	CATV
[Symbol]	TELEPHONE
[Symbol]	SWITCH
[Symbol]	SWITCH (3 WAY)
[Symbol]	DIMMER
[Symbol]	SPRINKLERS
[Symbol]	LOUDSPEAKER
[Symbol]	CARBON MONOXIDE
[Symbol]	SMOKE DETECTOR
[Symbol]	FIRE EXTINGUISHER
[Symbol]	STROBE
[Symbol]	PULL STATION
[Symbol]	THERMOSTAT
[Symbol]	CEILING VENTILATION
[Symbol]	SUPPLY AIR DIFFUSER A.C.
[Symbol]	RETURN AIR GRILLE A.C.
[Symbol]	2'X2' CEILING TILE
[Symbol]	2'X4' CEILING TILE
[Symbol]	WALL MOUNTED EXIT SIGN
[Symbol]	CEILING MOUNTED EXIT SIGN
[Symbol]	EMERGENCY LIGHT
[Symbol]	BATHROOM EXHAUST
[Symbol]	HEAT DETECTOR
[Symbol]	RECESSED DOWN LIGHT
[Symbol]	CEILING MOUNTED FIXTURE
[Symbol]	WALL MOUNTED FIXTURE
[Symbol]	EXTERIOR WALL MOUNTED FIXTURE
[Symbol]	UNDER CABINET

JOB NO: 221-105 DATE: 01/02/21 SCALE: AS NOTED DRN. BY: EAA	Jenny R. Zuniga-Casal ARCHITECT Jenny R. Zuniga-Casal Architecture LLC 77 Sierra Vista Lane, Valley Cottage, NY, 10989 Tel: 845.598.1613 Fax: 845.512.8290 Email: jzuniga00@msn.com	
	NEW CONSTRUCTION Cornielli Real State Enterprises 1050 Route 9W Nyack, N.Y. 10960	

ISSUED
04-07-20 ACABOR MEETING APPROVED
02-16-21 AMENDMENT ARCH. LAY-OUT
05-16-21 AMENDMENT AS PER OWNER.

Jenny R. Zuniga-Casal



SECOND FLOOR PLAN
SCALE: 1/4" = 1'-0"

JOB NO: 221-105
DATE: 01/012/21
SCALE: AS NOTED
DRN. BY: EAA

Jenny R. Zuniga-Casal
ARCHITECT
Jenny R. Zuniga-Casal Architecture LLC
77 Sierra Vista Lane, Valley Cottage, NY, 10989
Tel: 845.598.1613 Fax: 845.512.8290
Email: jzuniga000@msn.com

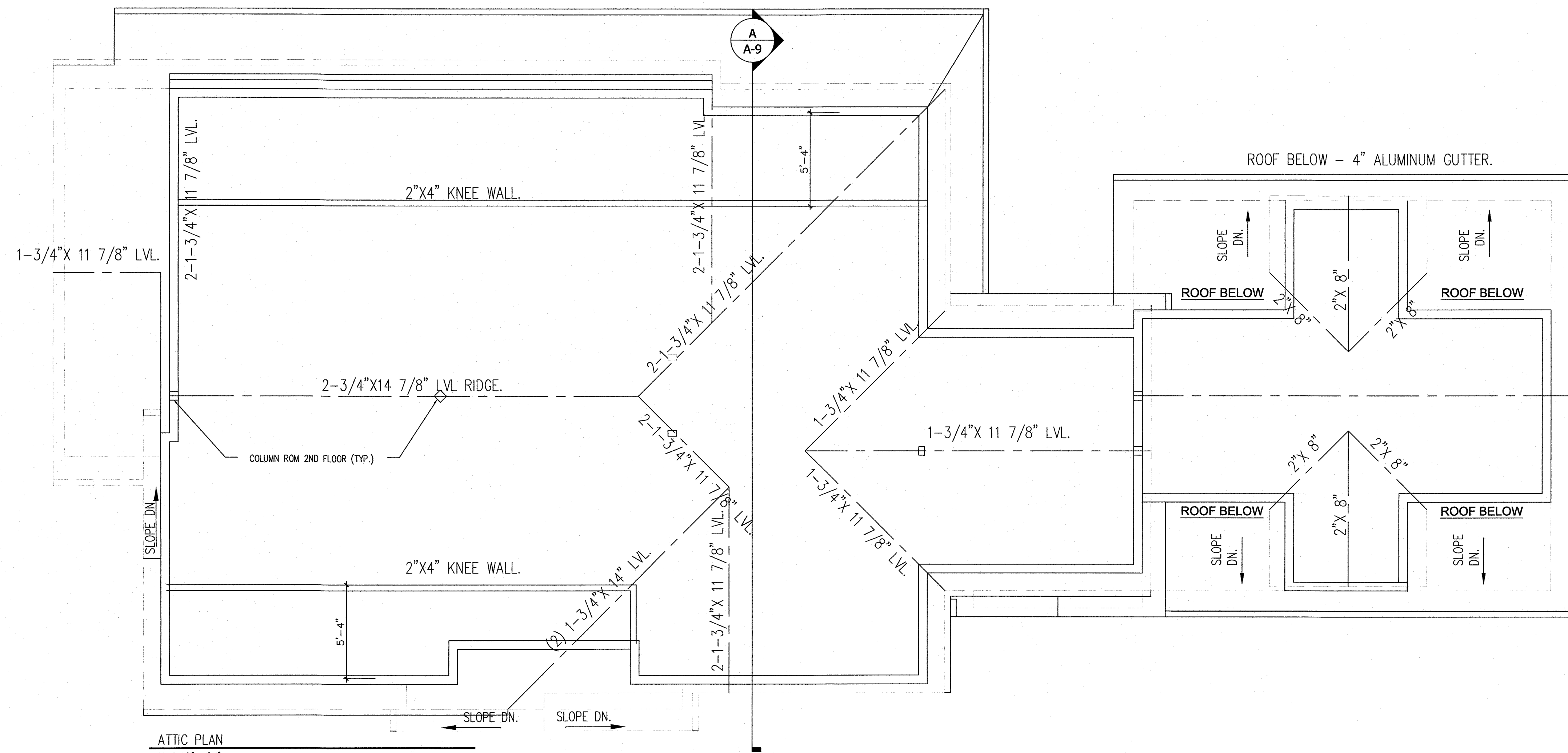


04-07-20 ACADROP MEETING APPROVED
02-16-21 AMENDMENT ARCH LAY-OUT
05-16-21 AMENDMENT AS PER OWNER.

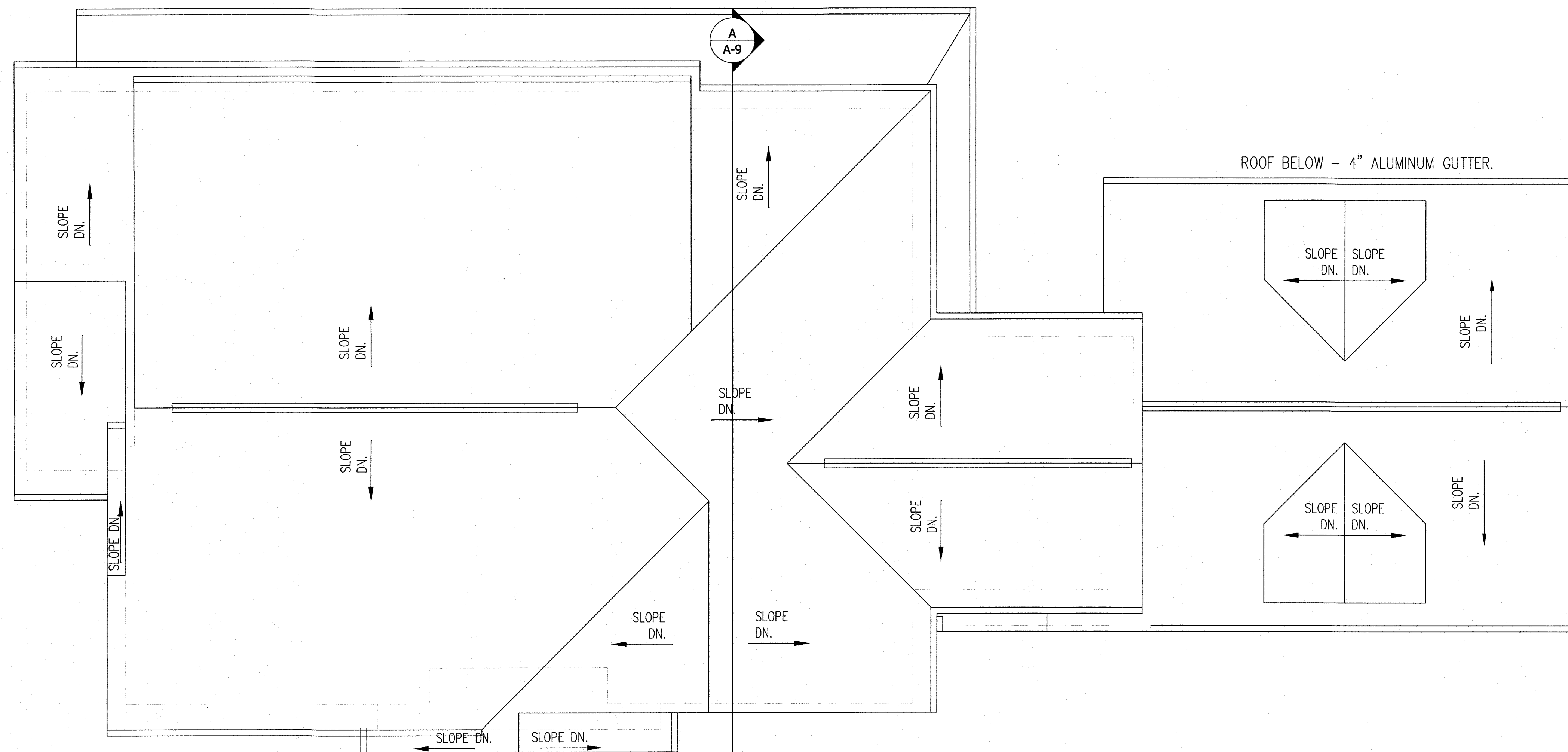
NEW CONSTRUCTION
Cornielli Real State Enterprises
1050 Route 9W
Nyack, N.Y. 10960

DRAWING NO:
A-4

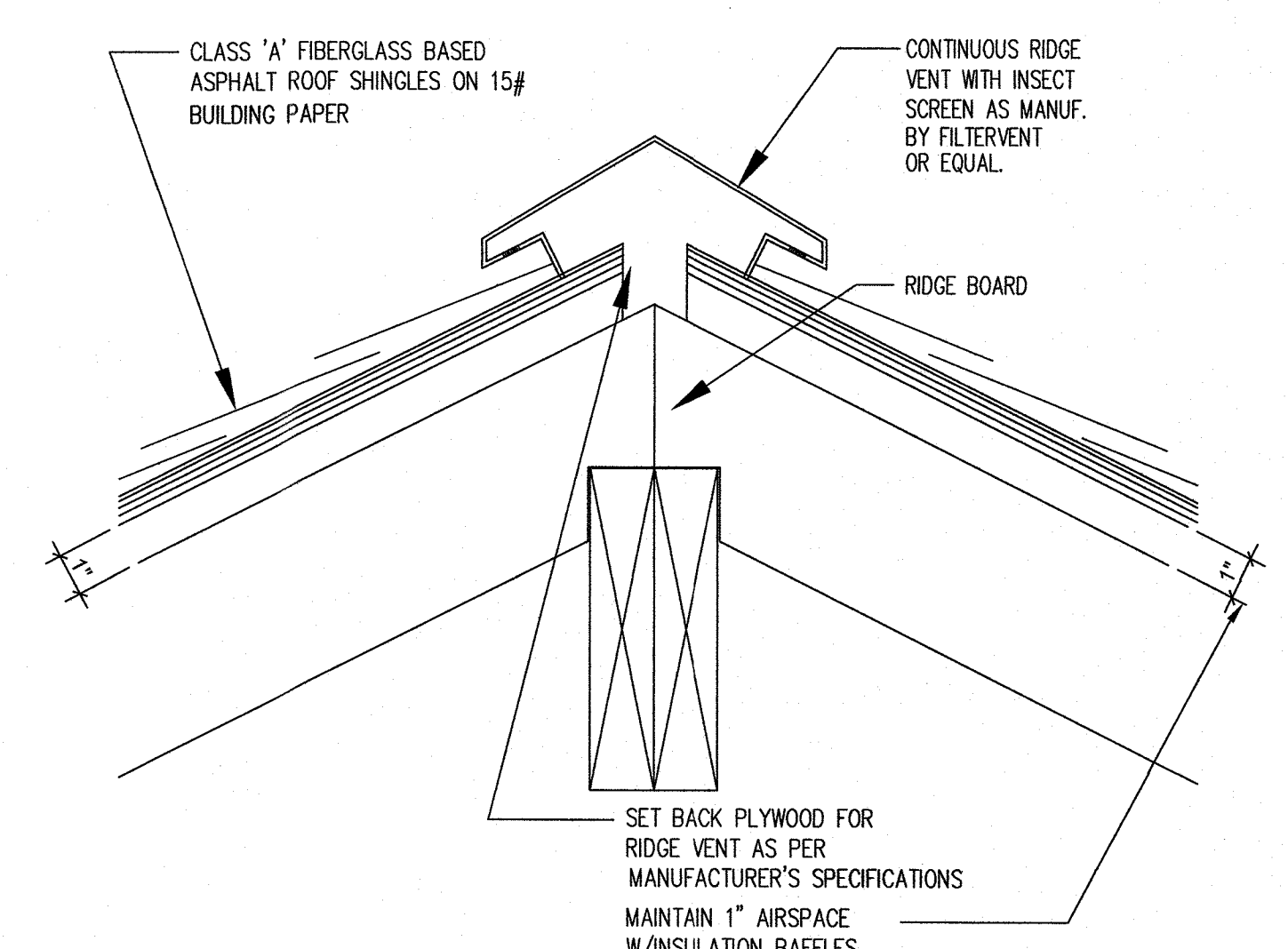
JRC



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



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



RIDGE DETAIL @ ROOF PLAN
SCALE: 3" = 1'-0"

JOB NO: 221-105
DATE 01/012/21
SCALE AS NOTED
DRN. BY. EAA

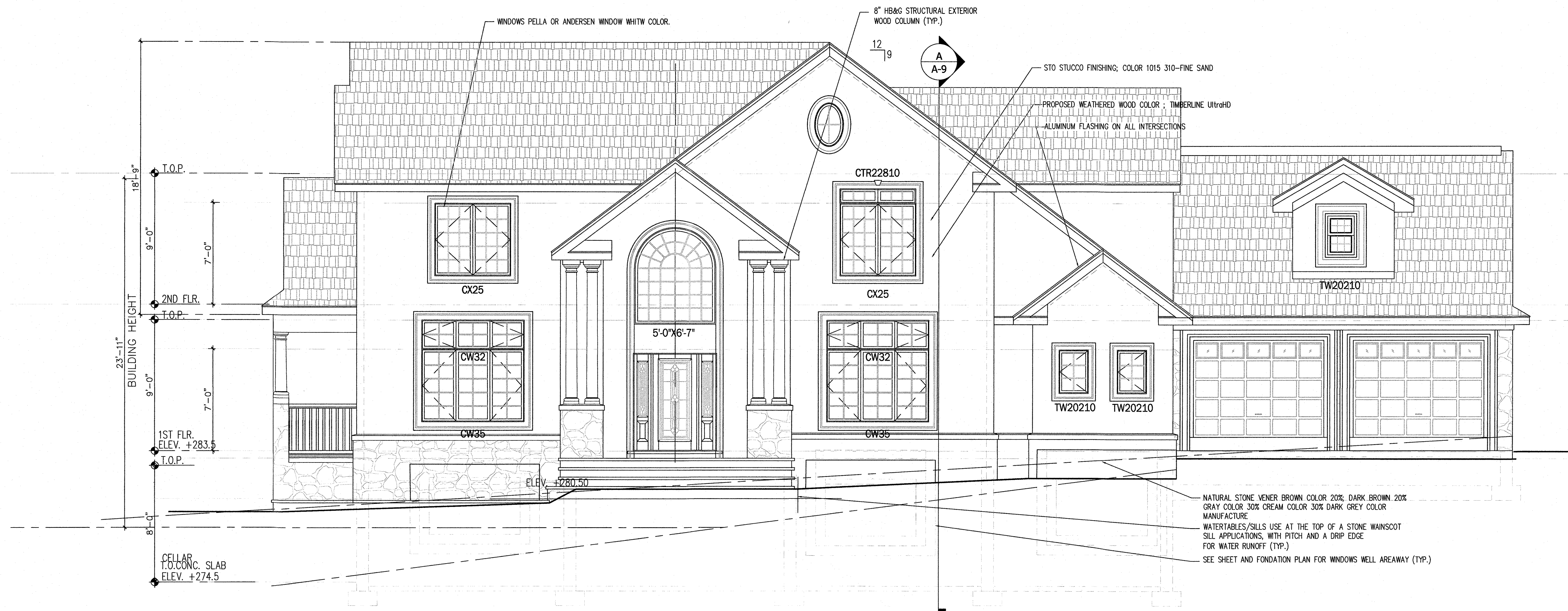
Jenny R. Zuniga-Casal
ARCHITECT
Jenny R. Zuniga-Casal Architecture LLC
77 Sierra Vista Lane, Valley Cottage, NY, 10989
Tel: 845.598.1613 Fax: 845.512.8290
Email: jzuniga000@msn.com



ISSUED
04-07-20 ACABOR MEETING APPROVED
02-16-21 AMENDMENT ARCH. LAY-OUT
05-16-21 AMENDMENT AS PER OWNER.

NEW CONSTRUCTION
Cornielli Real State Enterprises
1050 Route 9W
Nyack, N.Y. 10960

DRAWING NO.:
A-5



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

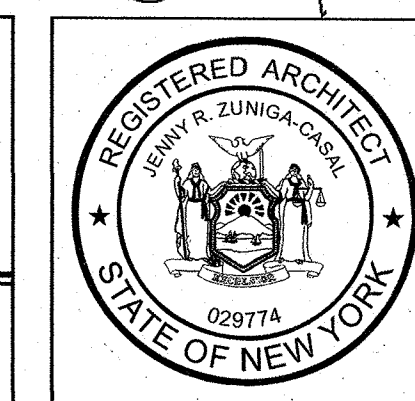


ROUTE 9W ELEVATION
SCALE: 1/4" = 1'-0"

JOB NO: 221-105
DATE 01/012/21
SCALE AS NOTED
DRN. BY. EAA

ISSUED
04-07-20 ACABOR MEETING APPROVED
02-16-21 AMEDMEM ARCH. LAY-OUT
05-16-21 AMEDMEM AS PER OWNER.

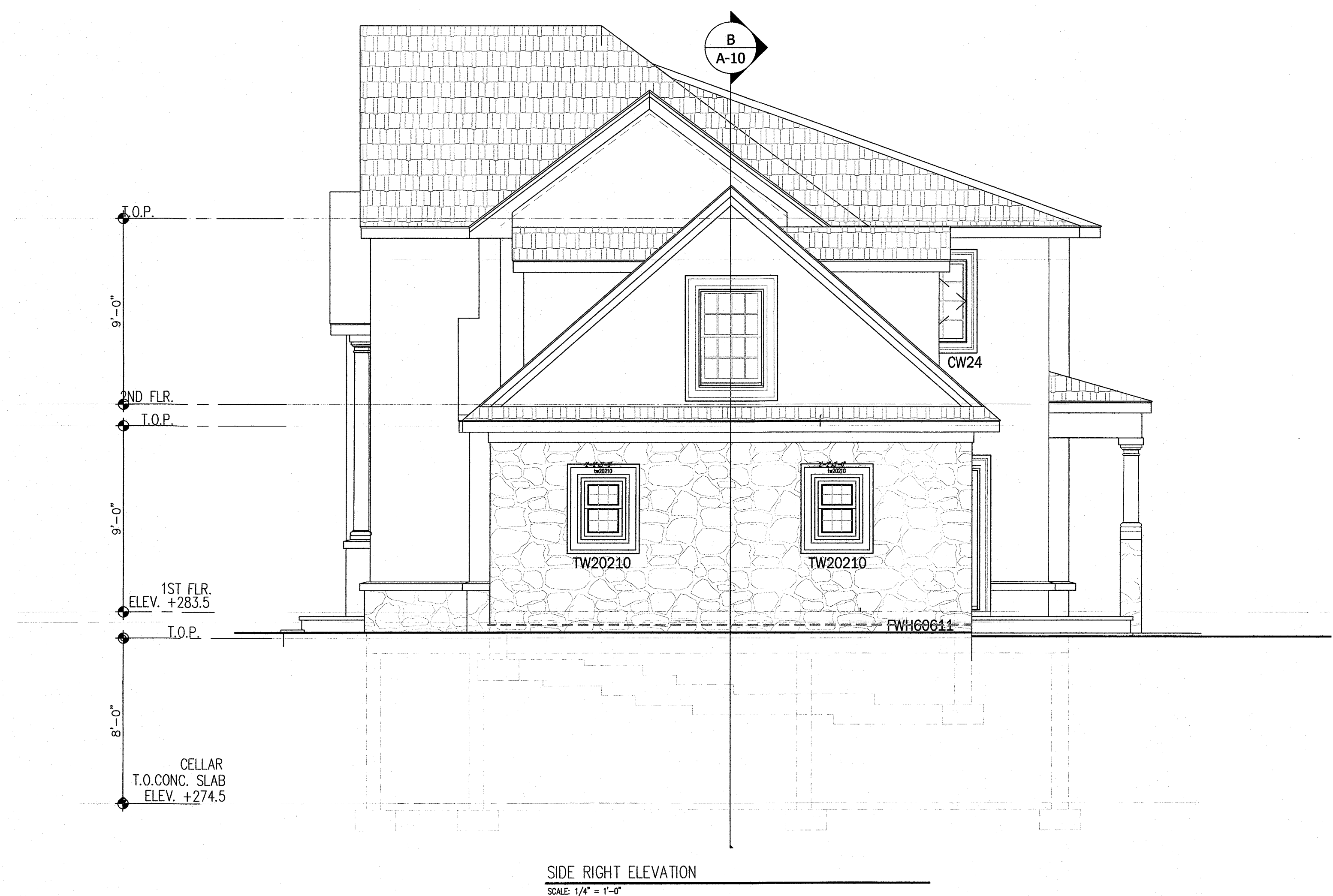
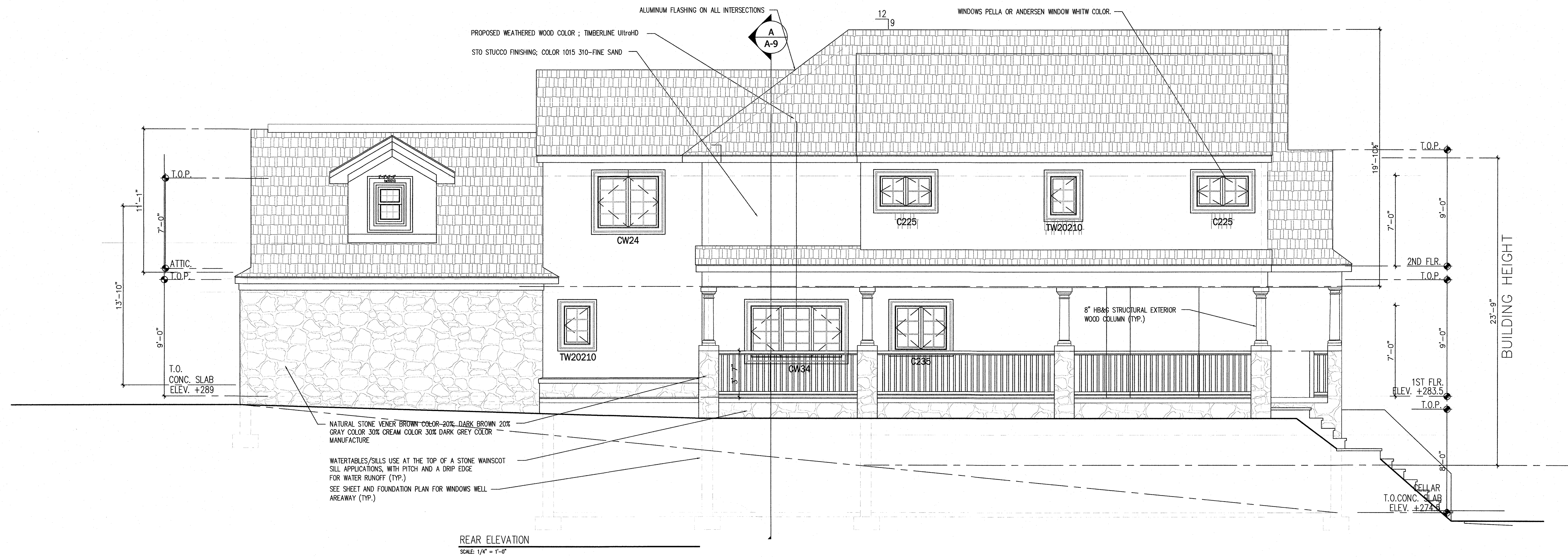
Jenny R. Zuniga-Casal
ARCHITECT
Jenny R. Zuniga-Casal Architecture LLC
77 Sierra Vista Lane, Valley Cottage, NY, 10989
Tel: 845.598.1613 Fax: 845.512.8290
Email: jzuniga000@msn.com



NEW CONSTRUCTION
Cornielli Real State Enterprises
1050 Route 9W
Nyack, N.Y. 10960

DRAWING NO.:
A-6

JRC

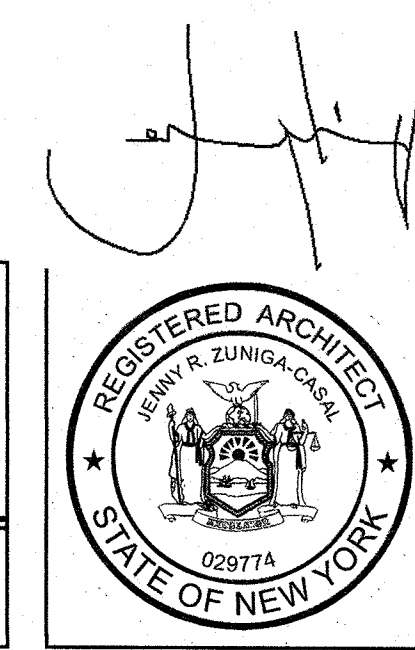


JOB NO: 221-105
 DATE 01/012/21
 SCALE AS NOTED
 DRN. BY: EAA

Jenny R. Zuniga-Casal
 ARCHITECT

Jenny R. Zuniga-Casal Architecture LLC

77 Sierra Vista Lane, Valley Cottage, NY, 10989
 Tel: 845.598.1613 Fax: 845.512.8290
 Email: jzuniga000@msn.com

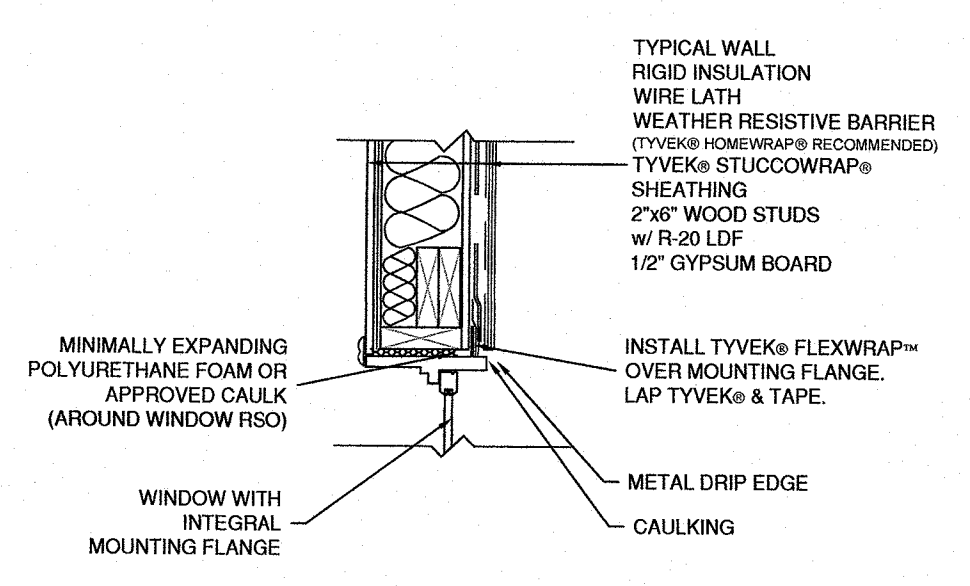


ISSUED
 04-07-20 ACABOR MEETING APPROVED
 02-16-21 AMEDM@ ARCH. LAY-OUT
 05-16-21 AMEDM@ ARCH. LAY-OUT

NEW CONSTRUCTION
Cornielli Real State Enterprises
 1050 Route 9W
 Nyack, N.Y. 10960

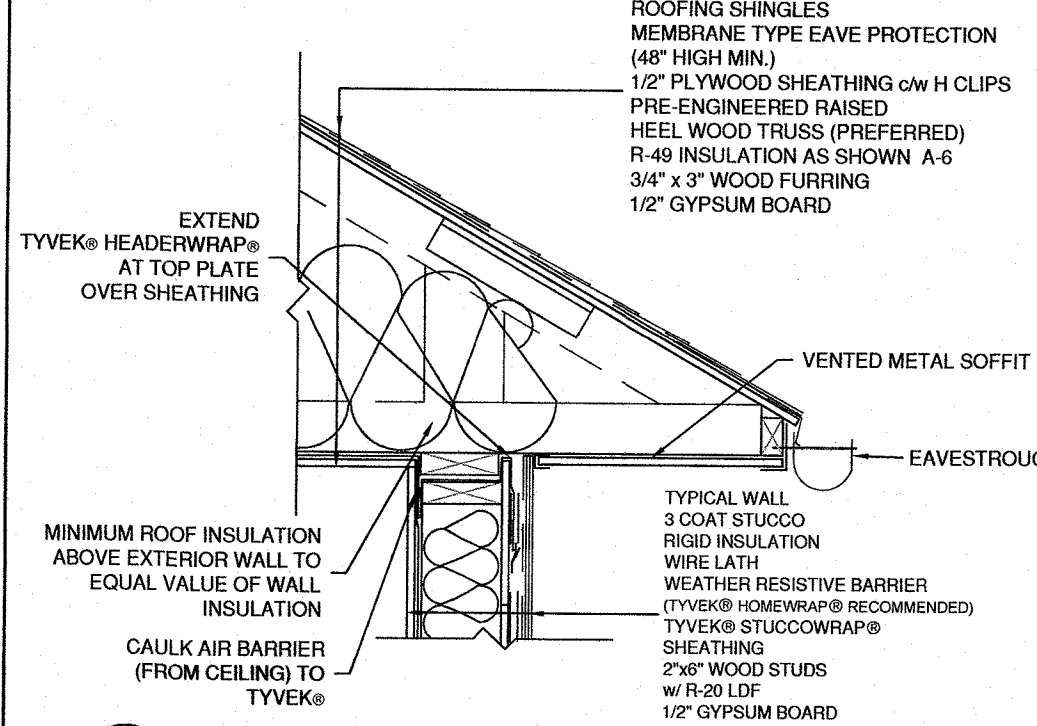
DRAWING NO.:
A-7

GENERAL NOTES
 *SEAL ALL TYVEK® JOINTS AND PENETRATIONS WITH APPROVED TAPE. (EX. DUPONT CONTRACTOR TAPE)
 *FASTEN TYVEK® TO SHEATHING WITH LARGE HEAD NAILS OR USE NAILS WITH LARGE PLASTIC WASHER HEADS. (EX. DUPONT WRAPCAPS)
 *LOCAL LAWS, ZONING, AND BUILDING CODES VARY AND THEREFORE GOVERNS OVER MATERIAL SELECTION AND DETAILING SHOWN BELOW.
 *INSTALL STUCCO ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS



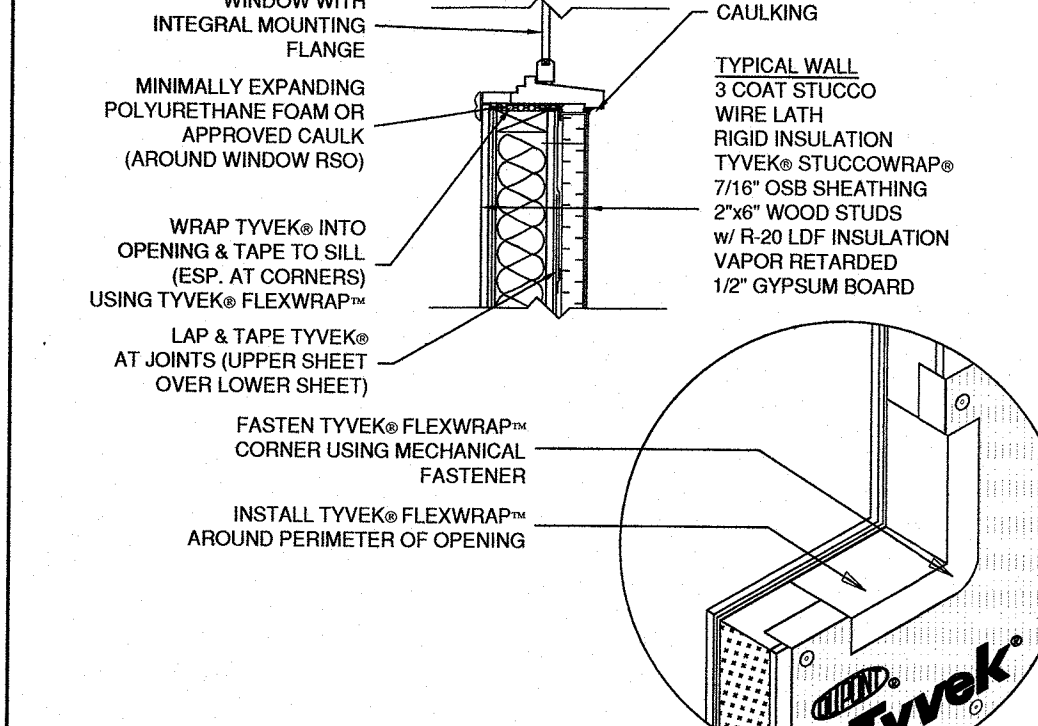
WINDOW HEAD DETAIL
 RESIDENTIAL WOOD FRAME STRUCTURE w/ STUCCO

GENERAL NOTES
 *SEAL ALL TYVEK® JOINTS AND PENETRATIONS WITH APPROVED TAPE. (EX. DUPONT CONTRACTOR TAPE)
 *FASTEN TYVEK® TO SHEATHING WITH LARGE HEAD NAILS OR USE NAILS WITH LARGE PLASTIC WASHER HEADS. (EX. DUPONT WRAPCAPS)
 *LOCAL LAWS, ZONING, AND BUILDING CODES VARY AND THEREFORE GOVERNS OVER MATERIAL SELECTION AND DETAILING SHOWN BELOW.
 *INSTALL STUCCO ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS



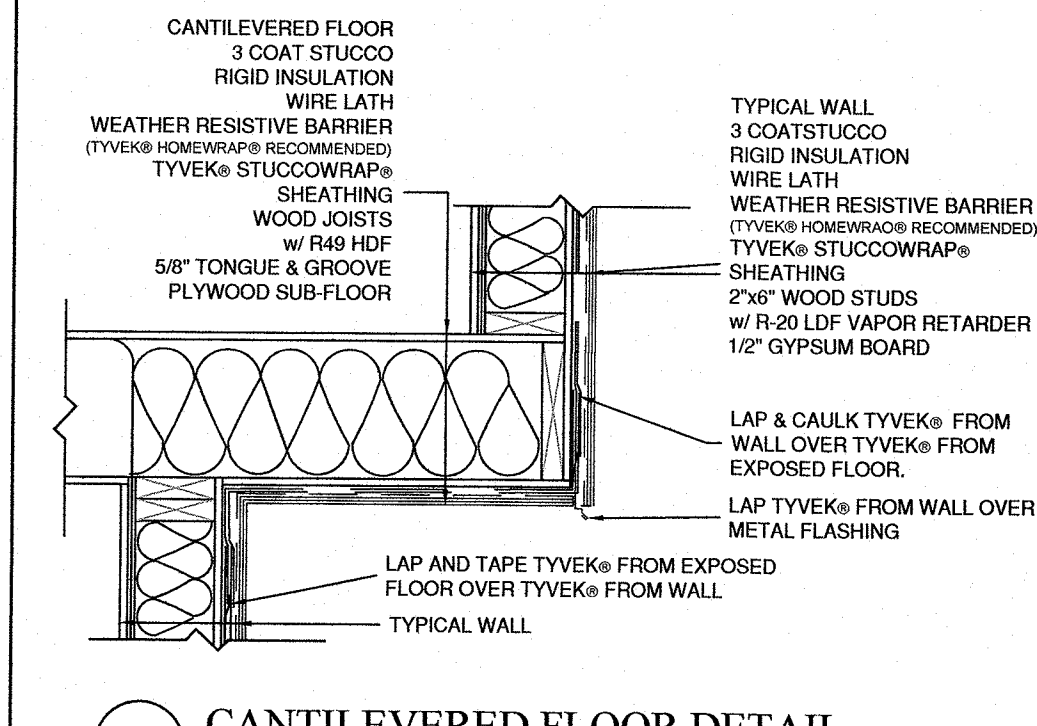
ROOF/WALL INTERFACE DETAIL
 RESIDENTIAL WOOD FRAME STRUCTURE w/ STUCCO

GENERAL NOTES
 *SEAL ALL TYVEK® JOINTS AND PENETRATIONS WITH APPROVED TAPE. (EX. DUPONT CONTRACTOR TAPE)
 *FASTEN TYVEK® TO SHEATHING WITH LARGE HEAD NAILS OR USE NAILS WITH LARGE PLASTIC WASHER HEADS. (EX. DUPONT WRAPCAPS)
 *LOCAL LAWS, ZONING, AND BUILDING CODES VARY AND THEREFORE GOVERNS OVER MATERIAL SELECTION AND DETAILING SHOWN BELOW.
 *INSTALL EIFS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS

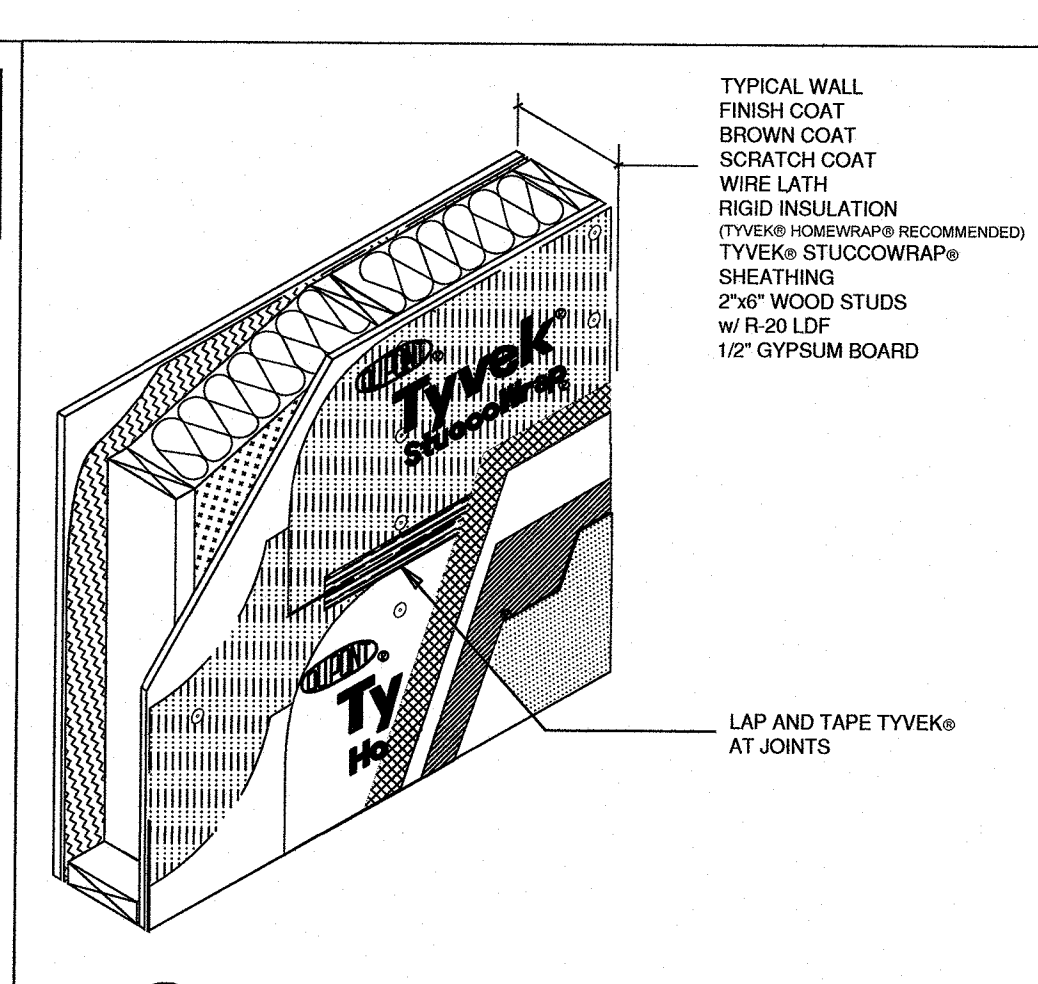


WINDOW SILL DETAIL
 RESIDENTIAL WOOD FRAME STRUCTURE w/ EIFS CLADDING

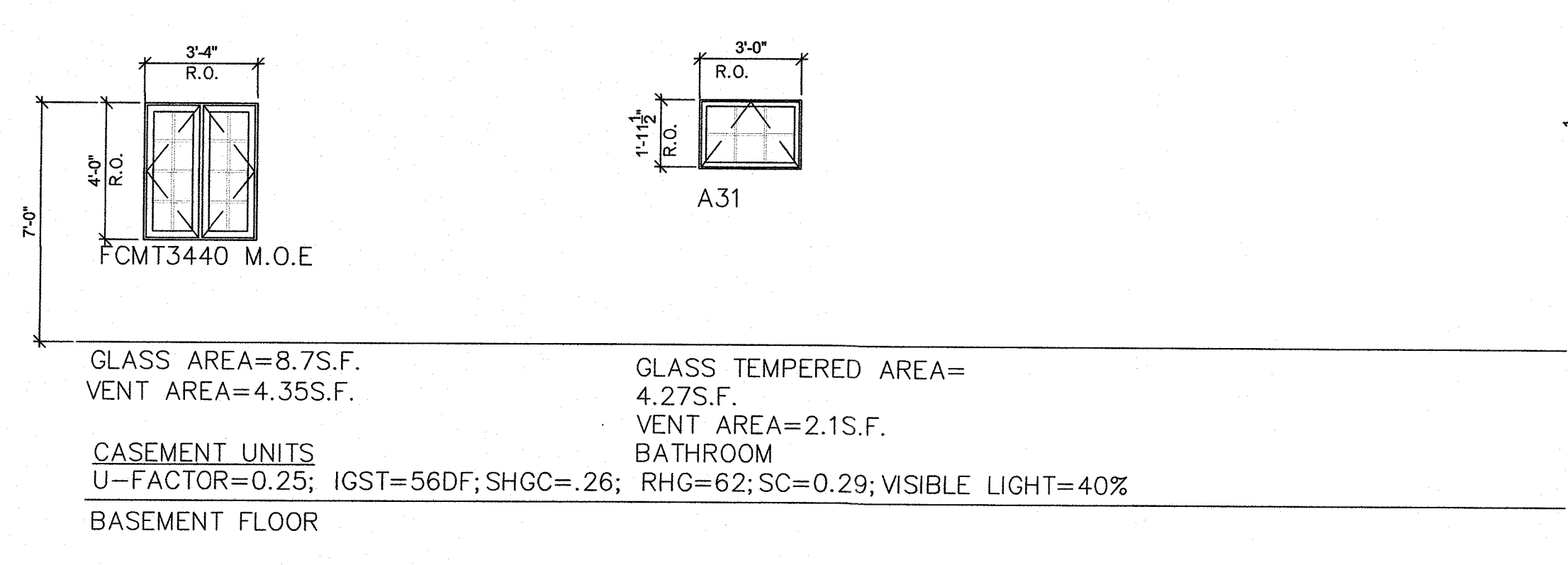
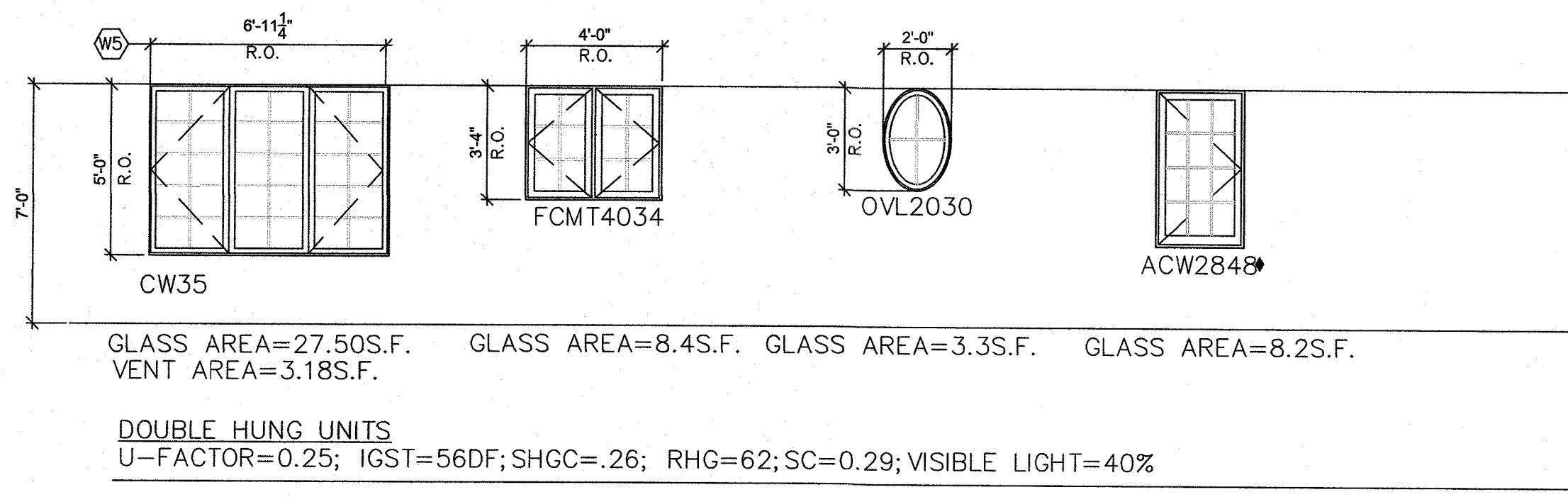
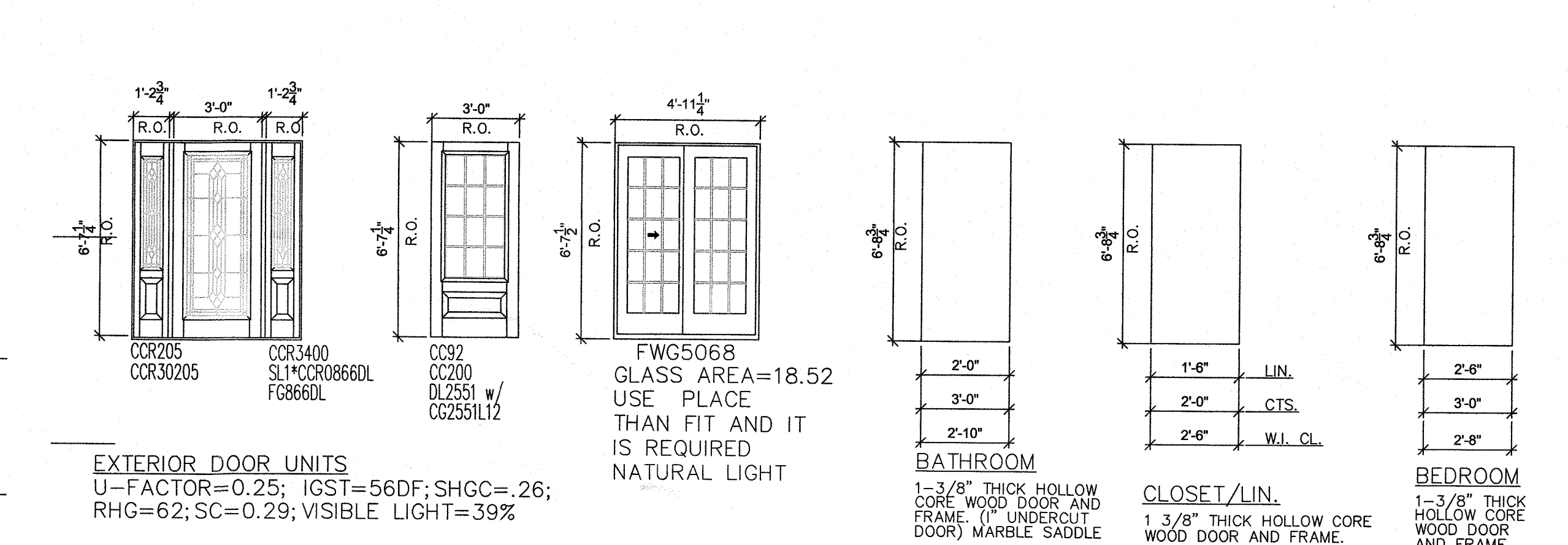
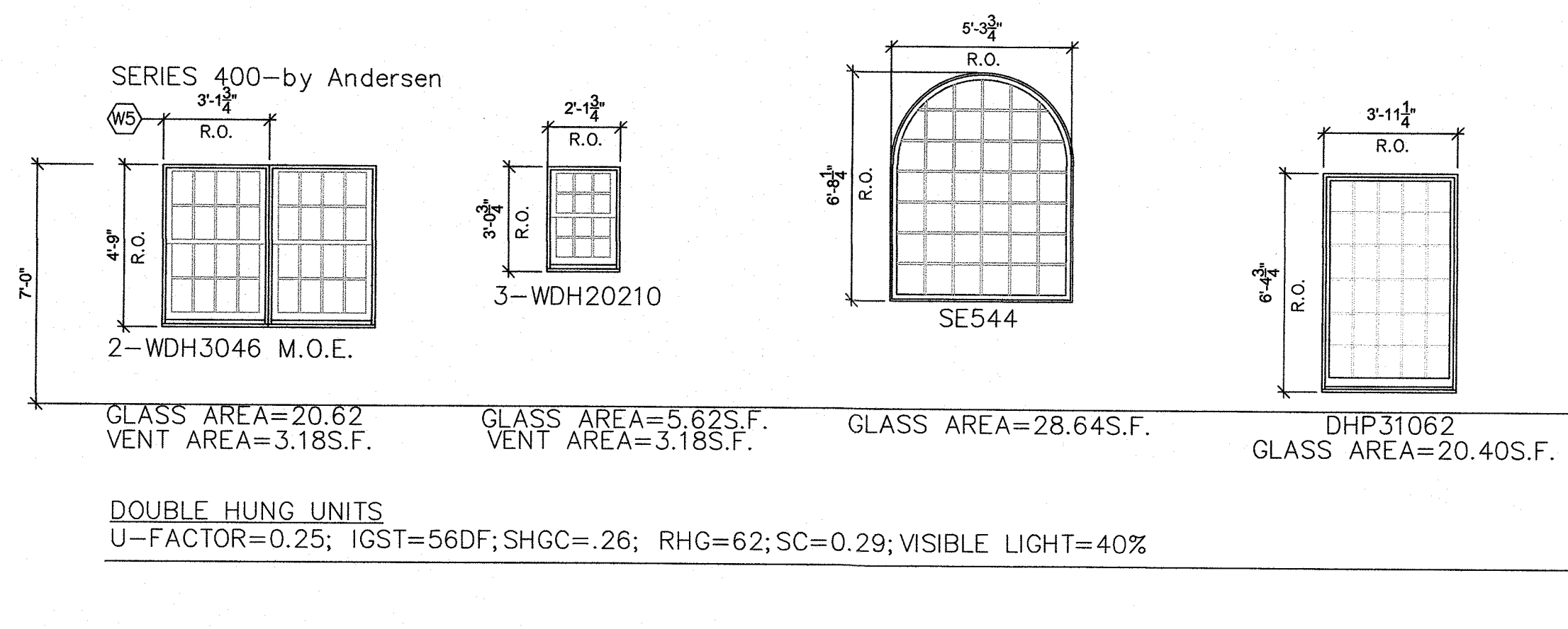
GENERAL NOTES
 *SEAL ALL TYVEK® JOINTS AND PENETRATIONS WITH APPROVED TAPE. (EX. DUPONT CONTRACTOR TAPE)
 *FASTEN TYVEK® TO SHEATHING WITH LARGE HEAD NAILS OR USE NAILS WITH LARGE PLASTIC WASHER HEADS. (EX. DUPONT WRAPCAPS)
 *LOCAL LAWS, ZONING, AND BUILDING CODES VARY AND THEREFORE GOVERNS OVER MATERIAL SELECTION AND DETAILING SHOWN BELOW.
 *INSTALL STUCCO ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS



CANTILEVERED FLOOR DETAIL
 RESIDENTIAL WOOD FRAME STRUCTURE w/ STUCCO



TYPICAL WALL ISOMETRIC
 RESIDENTIAL WOOD FRAME STRUCTURE w/ STUCCO



JOB NO: 221-105
 DATE 01/012/21
 SCALE AS NOTED
 DRN. BY. EAA

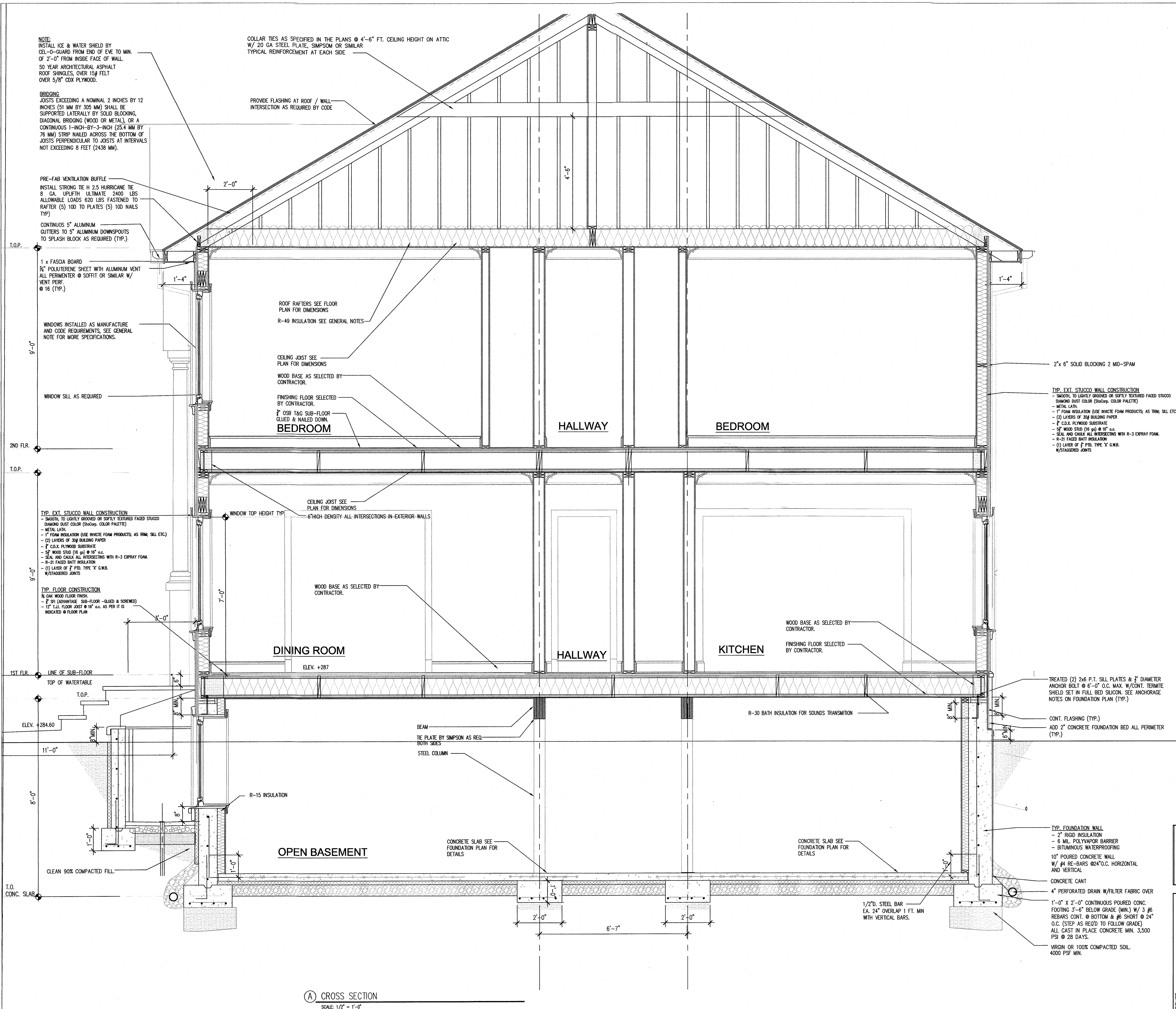
Jenny R. Zuniga-Casal
 ARCHITECT
 Jenny R. Zuniga-Casal Architecture LLC
 77 Sierra Vista Lane, Valley Cottage, NY, 10989
 Tel: 845.598.1613 Fax: 845.512.8290
 Email: jzuniga000@msn.com

REGISTERED ARCHITECT
 JENNY R. ZUNIGA-CASAL
 STATE OF NEW YORK
 029774

NEW CONSTRUCTION
 Cornielli Real State Enterprises
 1050 Route 9W
 Nyack, N.Y. 10960

DRAWING NO.:
A-8

ISSUED
 04-07-20 ACABOR MEETING APPROVED
 02-16-21 AMENDED ARCH. LAY-OUT
 05-16-21 AMENDMENT AS PER OWNER.



NOTE:
INSTALL ICE & WATER SHIELD BY
CEILING-GUARD FROM END OF EYE TO MIN.
OF 2'-0" FROM INSIDE FACE OF WALL
50 YEAR ARCHITECTURAL ASPHALT
ROOF SHINGLES, OVER 1/2" FELT
OVER 5/8" CDX PLYWOOD.

BRIDGING
JOISTS EXCEEDING A NOMINAL 2 INCHES BY 12
INCHES (51 MM BY 305 MM) SHALL BE
SUPPORTED LATERALLY BY SOLID BLOCKING,
DIAGONAL BRIDGING (WOOD OR METAL), OR A
CONTINUOUS 1-INCH-BY-3-INCH (25.4 MM BY
76 MM) STRIP NAILED ACROSS THE BOTTOM OF
JOISTS PERPENDICULAR TO JOISTS AT INTERVALS
NOT EXCEEDING 8 FEET (2438 MM).

PRE-FAB VENTILATION BUFFLE
INSTALL STRONG TIE H 2.5 HURRICANE TIE
8 GA. UPLIFTH ULTIMATE 2400 LBS
ALLOWABLE LOADS 620 LBS FASTENED TO
RAFTER (5) 10D TO PLATES (5) 10D NAILS
TYP.

CONTINUOUS 5" ALUMINUM
GUTTERS TO 5" ALUMINUM DOWNSPOUTS
TO SPLASH BLOCK AS REQUIRED (TYP.)

1 x FASCIA BOARD
3/4" POLYURETHANE SHEET WITH ALUMINUM VENT
ALL PERIMETER @ SOFFIT OR SIMILAR W/
VENT PERF.
@ 16" (TYP.)

WINDOWS INSTALLED AS MANUFACTURE
AND CODE REQUIREMENTS, SEE GENERAL
NOTE FOR MORE SPECIFICATIONS.

WINDOW SILL AS REQUIRED

TYP. EXT. STUCCO WALL CONSTRUCTION
- SMOOTH TO LIGHTLY GROOVED OR SOFTLY BEADED FACED STUCCO
DAMING DUST COLOR (SeeSpec. COLOR PALETTE)
- METAL LATH
- 1" FOM INSULATION (USE INVICIE FOM PRODUCTS, AS TRIM, SILL ETC.)
- (2) LAYERS OF 30# BUILDING PAPER
- 1/2" CDX PLYWOOD SUBSTRATE
- 5/8" WOOD STUD (16 @ 16" o.c.)
- SEAL AND CAULK ALL INTERSECTIONS WITH R-3 EXPRAY FOAM.
- R-21 FACED BATT INSULATION
- (1) LAYER OF 1/2" PFB. TYPE "X" G.W.B.
W/STAGGERED JOINTS

TYP. FLOOR CONSTRUCTION
- 3/4" ONE WOOD FLOOR FINISH
- 1/2" 21 (KNOCKDOWN, SUB-FLOOR - GLED & SCREWED)
- 1/2" T.J.L. FLOOR JOIST @ 16" o.c. AS PER IT IS
INDICATED @ FLOOR PLAN

COLLAR TIES AS SPECIFIED IN THE PLANS @ 4'-6" FT. CEILING HEIGHT ON ATTIC
W/ 20 GA STEEL PLATE, SIMPSON OR SIMILAR
TYPICAL REINFORCEMENT AT EACH SIDE

PROVIDE FLASHING AT ROOF / WALL
INTERSECTION AS REQUIRED BY CODE

ROOF RAFTERS SEE FLOOR
PLAN FOR DIMENSIONS
R-49 INSULATION SEE GENERAL NOTES

CEILING JOIST SEE
PLAN FOR DIMENSIONS
WOOD BASE AS SELECTED BY
CONTRACTOR

FINISHING FLOOR SELECTED
BY CONTRACTOR.
2" OSB T&G SUB-FLOOR
GLUED & NAILED DOWN.

CEILING JOIST SEE
PLAN FOR DIMENSIONS
6" HIGH DENSITY ALL-INTERSECTIONS-IN-EXTERIOR-WALLS

WOOD BASE AS SELECTED BY
CONTRACTOR

WOOD BASE AS SELECTED BY
CONTRACTOR.
FINISHING FLOOR SELECTED
BY CONTRACTOR.

TYP. EXT. STUCCO WALL CONSTRUCTION
- SMOOTH TO LIGHTLY GROOVED OR SOFTLY TEXTURED FACED STUCCO
DAMING DUST COLOR (SeeSpec. COLOR PALETTE)
- METAL LATH
- 1" FOM INSULATION (USE INVICIE FOM PRODUCTS, AS TRIM, SILL ETC.)
- (2) LAYERS OF 30# BUILDING PAPER
- 1/2" CDX PLYWOOD SUBSTRATE
- 5/8" WOOD STUD (16 @ 16" o.c.)
- SEAL AND CAULK ALL INTERSECTIONS WITH R-3 EXPRAY FOAM.
- R-21 FACED BATT INSULATION
- (1) LAYER OF 1/2" PFB. TYPE "X" G.W.B.
W/STAGGERED JOINTS

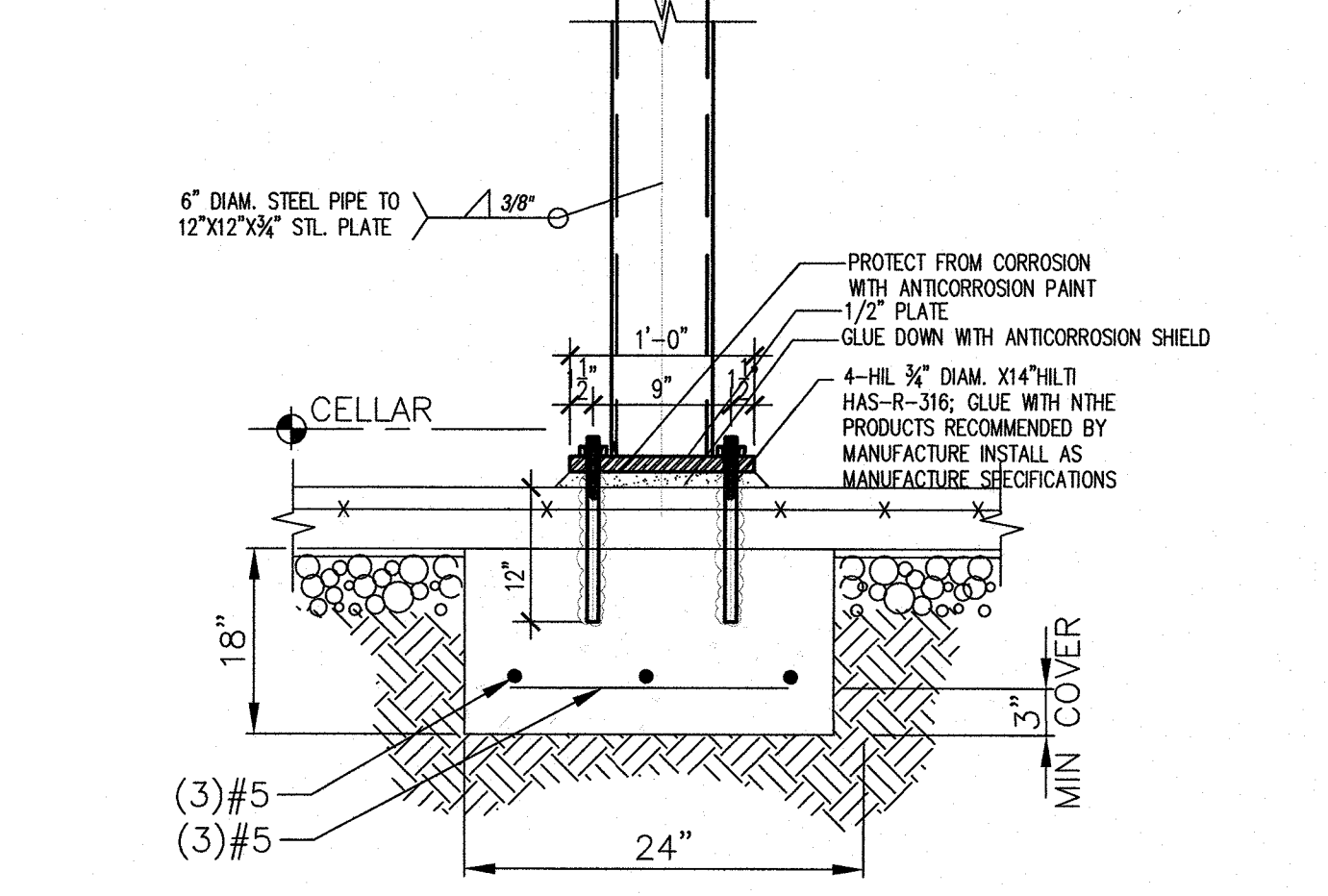
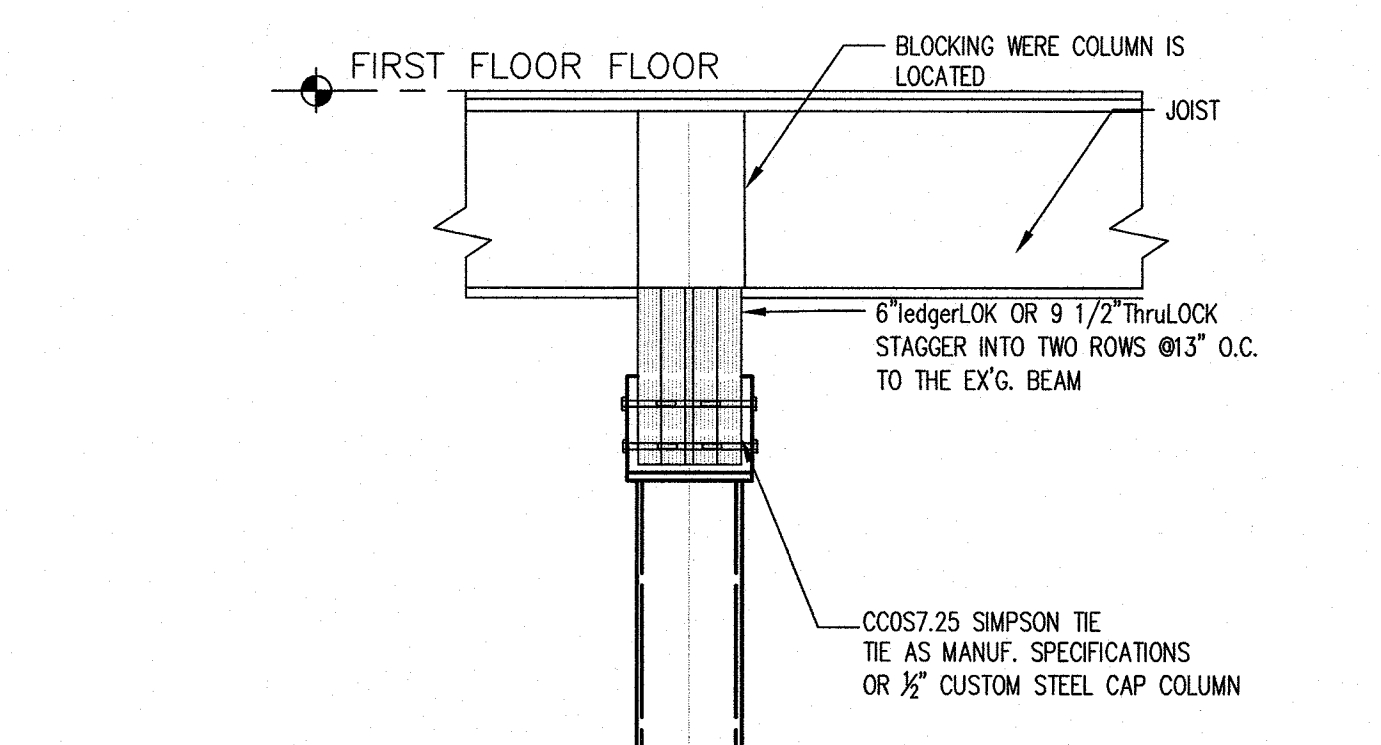
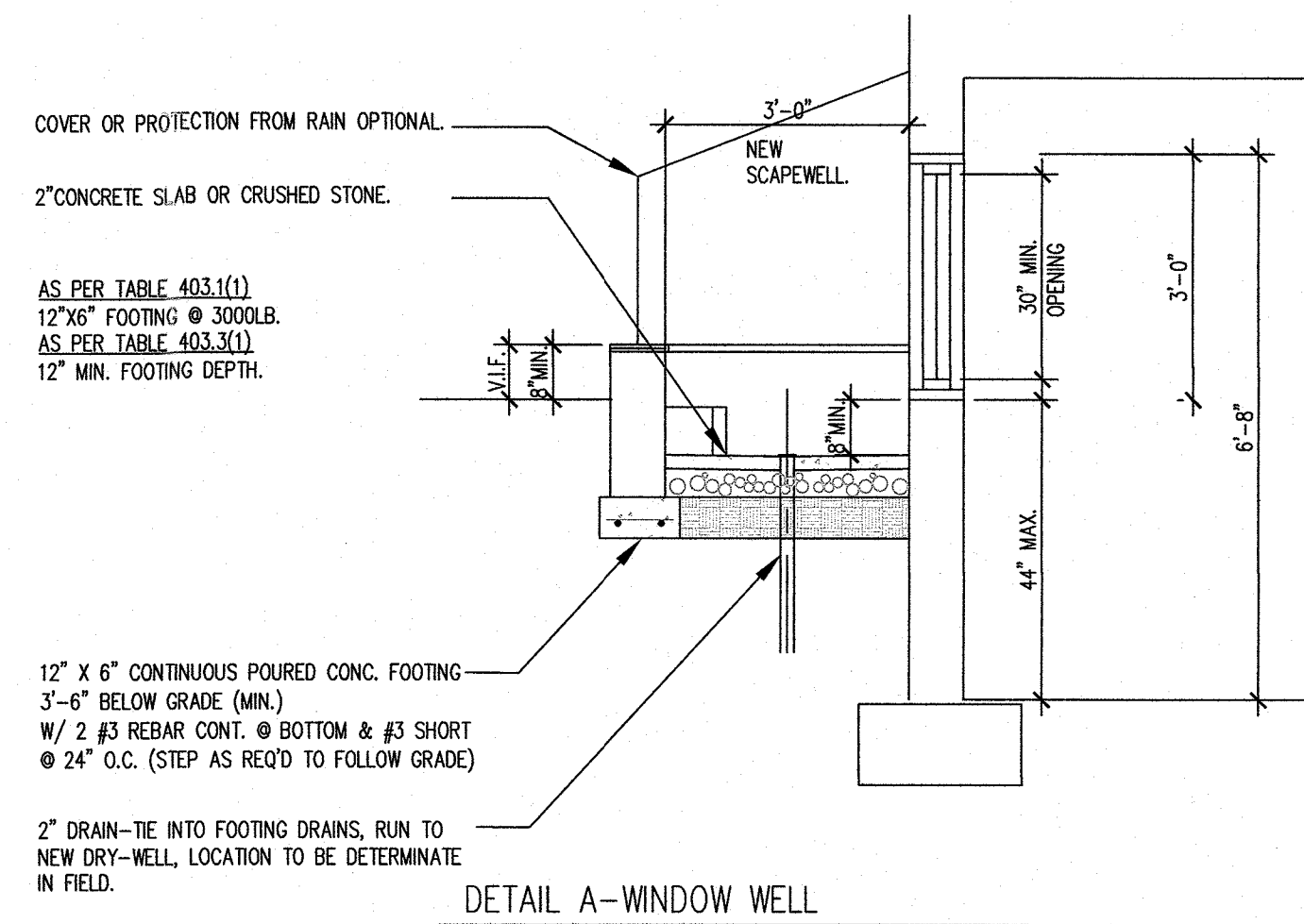
TREATED (2) 2x6 P.T. SILL PLATES & 1/2" DIAMETER
ANCHOR BOLT @ 6'-0" O.C. MAX. W/CONT. TERMITES
SHIELD SET IN FULL BED SILICON. SEE ANCHORAGE
NOTES ON FOUNDATION PLAN (TYP.)

CONT. FLASHING (TYP.)
ADD 2" CONCRETE FOUNDATION BED ALL PERIMETER
(TYP.)

TYP. FOUNDATION WALL
- 2" RIGID INSULATION
- 6 MIL. POLYVAPOR BARRIER
- BITUMINOUS WATERPROOFING
10" POURED CONCRETE WALL
W/ #4 RE-BARS @ 24" O.C. HORIZONTAL
AND VERTICAL

CONCRETE CANT
4" PERFORATED DRAIN W/FILTER FABRIC OVER
1'-0" X 2'-0" CONTINUOUS POURED CONC.
FOOTING 3'-6" BELOW GRADE (MIN.) W/ 3 #6
REBARS CONT. @ BOTTOM & #8 SHORT @ 24"
O.C. (STEP AS REQ'D TO FOLLOW GRADE)
ALL CAST IN PLACE CONCRETE MIN. 3,500
PSI @ 28 DAYS.

VIRGIN OR 100% COMPACTED SOIL
4000 PSF MIN.



(A) CROSS SECTION
SCALE: 1/2" = 1'-0"

JOB NO: 221-105
DATE 01/01/21
SCALE AS NOTED
DRN. BY: EAA

ISSUED
04-07-20 ACABOR MEETING APPROVED
02-16-21 AMEDME@ ARCH. LAY-OUT
05-16-21 AMEDME@ ARCH. LAY-OUT

Jenny R. Zuniga-Casal
ARCHITECT
Jenny R. Zuniga-Casal Architecture LLC
77 Sierra Vista Lane, Valley Cottage, NY, 10989
Tel: 845.598.1613 Fax: 845.512.8290
Email: jzuniga000@msn.com



NEW CONSTRUCTION
Cornielli Real State Enterprises
1050 Route 9W
Nyack, N.Y. 10960

DRAWING NO.:
A-9

ROOF SHINGLES OVER TOP FEET OVER 3/4" CDX PLYWOOD.

BRIDGING
 JOISTS EXCEEDING A NOMINAL 2 INCHES BY 12 INCHES (51 MM BY 305 MM) SHALL BE SUPPORTED Laterally BY SOLID BLOCKING, DIAGONAL BRIDGING (WOOD OR METAL), OR A CONTINUOUS 1-INCH-BY-3-INCH (25.4 MM BY 76 MM) STRIP NAILED ACROSS THE BOTTOM OF JOISTS PERPENDICULAR TO JOISTS AT INTERVALS NOT EXCEEDING 8 FEET (2438 MM).
 PRE-FAB VENTILATION BUFFLE

INSTALL STRONG TIE H 2.5 HURRICANE TIE 8 GA. UPLIFTH ULTIMATE 2400 LBS ALLOWABLE LOADS 620 LBS FASTENED TO RAFTER (5) 10D TO PLATES (5) 10D NAILS (TYP)

CONTINUOUS 5" ALUMINUM GUTTERS TO 5" ALUMINUM DOWNSPOUTS TO SPLASH BLOCK AS REQUIRED (TYP.)

VINYL SOFFIT W/ VENT PERF. @ 16 (TYP.)

1 x FASCIA BOARD

ATTIC

T.O.P.

STUCCO APPLIED AS MANUFACTURE SPECIFICATIONS COLOR SELECTED BY OWNER.

2"x 6" SOLID BLOCKING 2 MID-SPAM

TYP. WALL CONSTRUCTION

- (1) LAYER OF 1/2" GYP. BD. W/STAGGERED JOINTS
- 2X6 WD. STUD WALL 16" @ CENTER
- SEAL ALL INTERSECTIONS WITH R-3 CAULK.
- R-20 LDF. (LOW DENSITY FOAM)
- 3/4" OSB SHEATING.
- 1 1/2" RIGID INSULATION OR AS IT IS REQD. BY MANUFACTURE STO
- WIRE LATH
- STUCCO APPLIED AS MANUF. SPECIFICATIONS

PROVIDE CONT. TERMITE SHIELD 1/2" DIA. ANCHOR BOLT @ 6'-0" O.C. MAX. (FILL BLOCK SOLID) OTHERWISE BY STRUCTURE ENGINEER T.O.

CONCRETE SLAB

PITCH GRADE AWAY FROM HOUSE ALL SIDES

CONT. FLASHING (TYP.)

TYP. FOUNDATION WALL

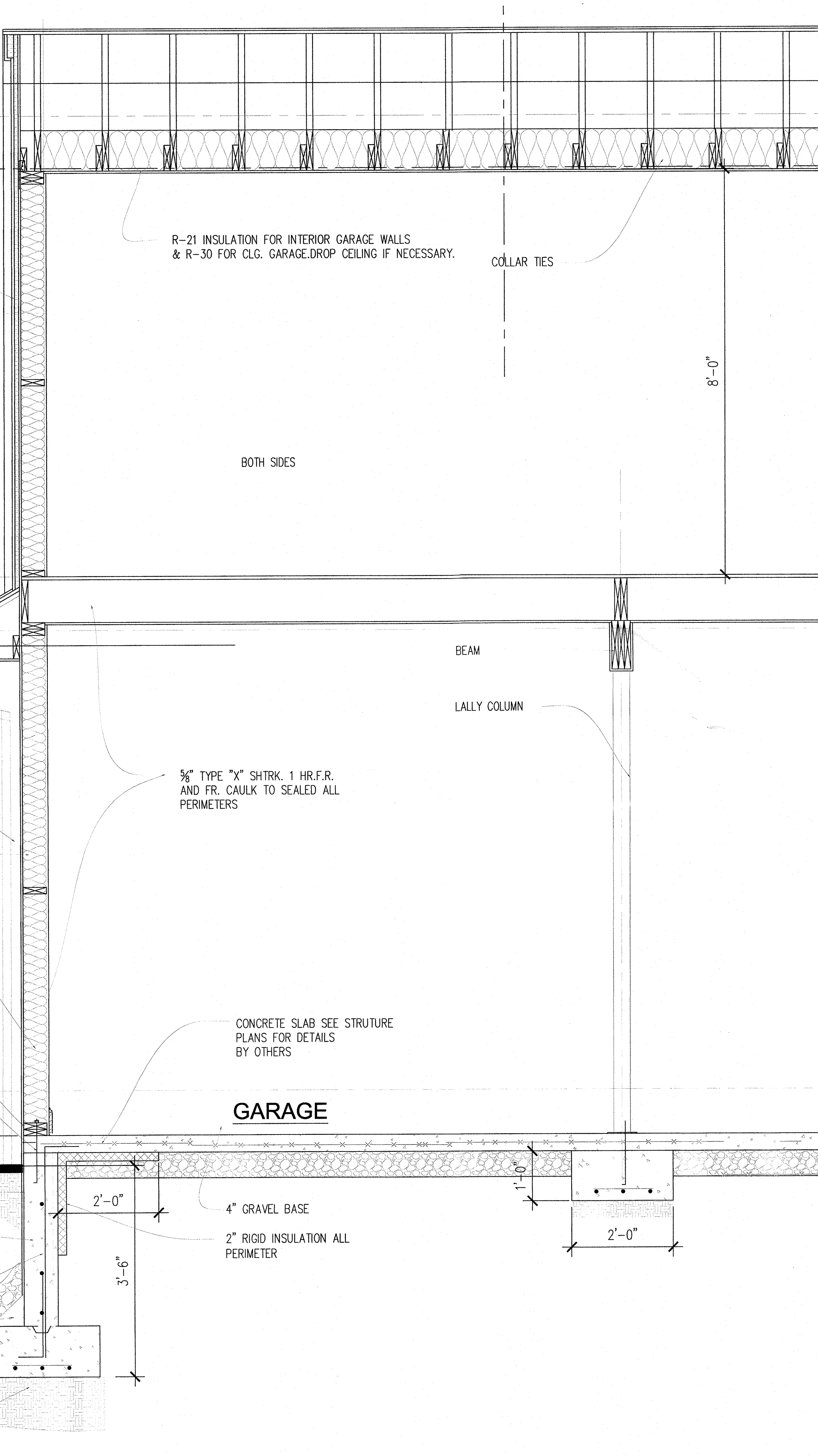
- 2" RIGID INSULATION
- 6 MIL. POLYVAPOR BARRIER
- BITUMINOUS WATERPROOFING

POURED CONCRETE WALL STRUCTURE BY OTHERS

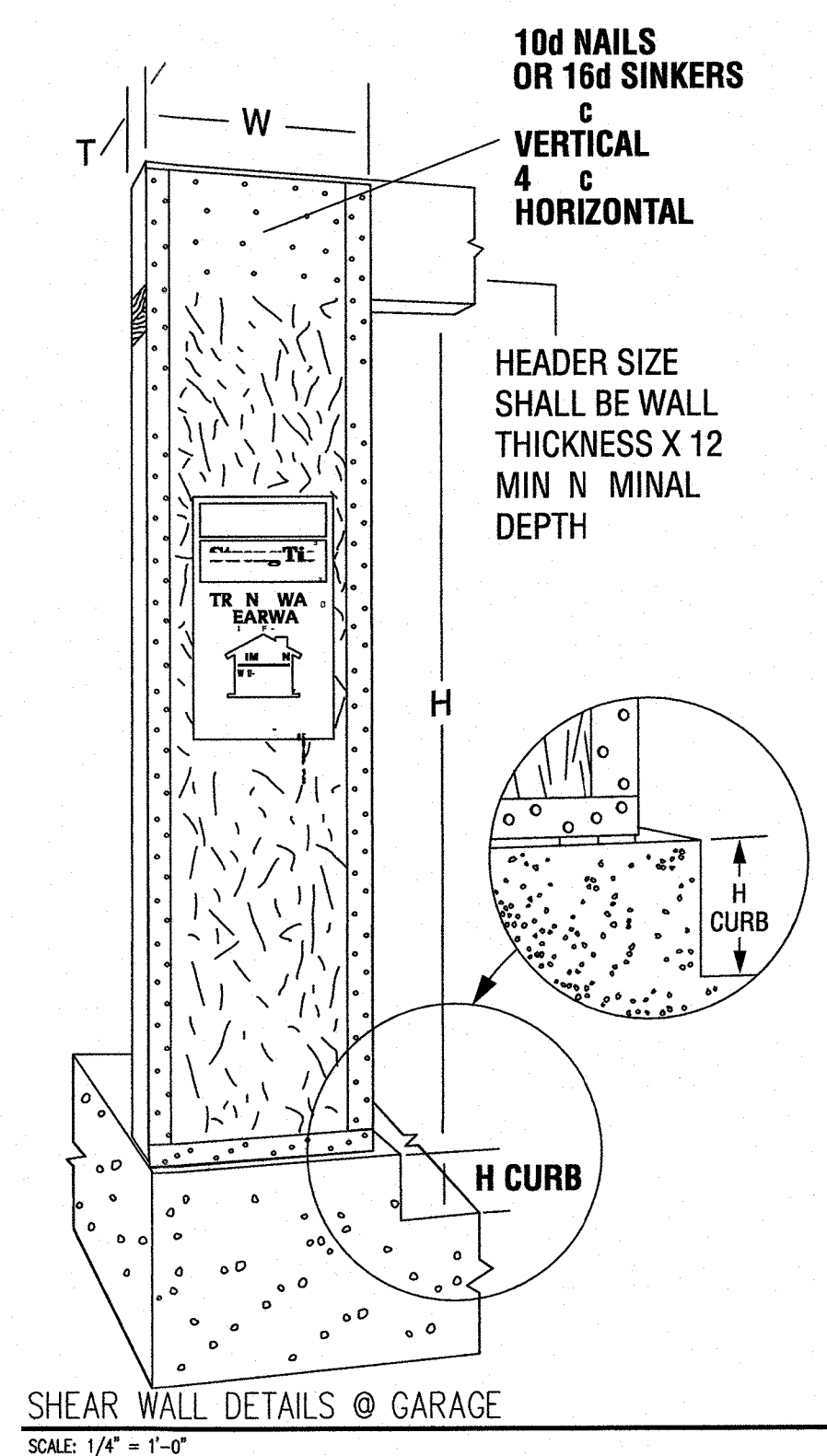
CONCRETE CANT

4" PERFORATED DRAIN W/FILTER FABRIC OVER CONTINUOUS POURED CONC. FOOTING 3'-6" BELOW GRADE (MIN.) STRUCTURE BY OTHERS. (STEP AS REQ'D TO FOLLOW GRADE)

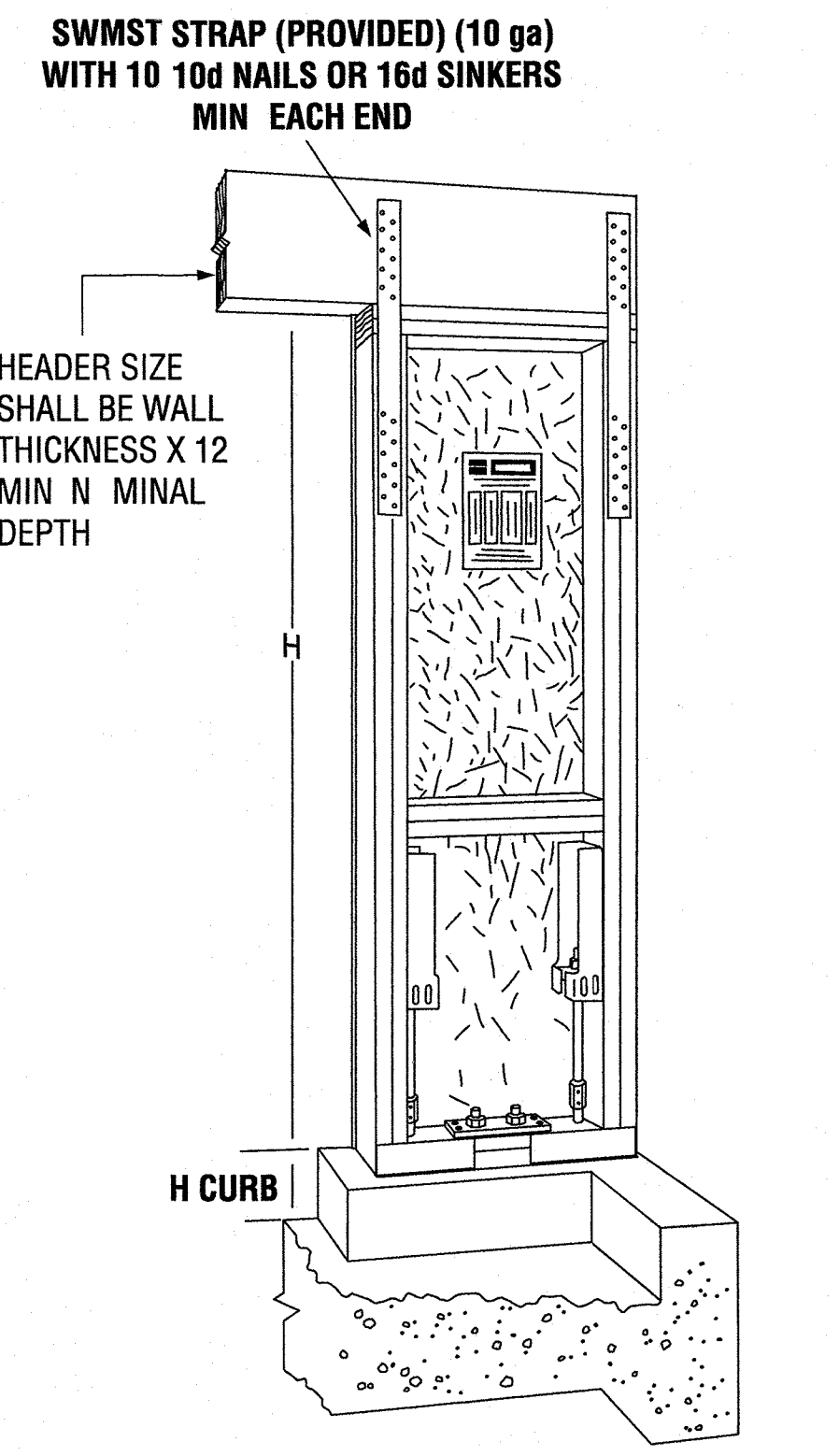
UNDISTURBED SOIL



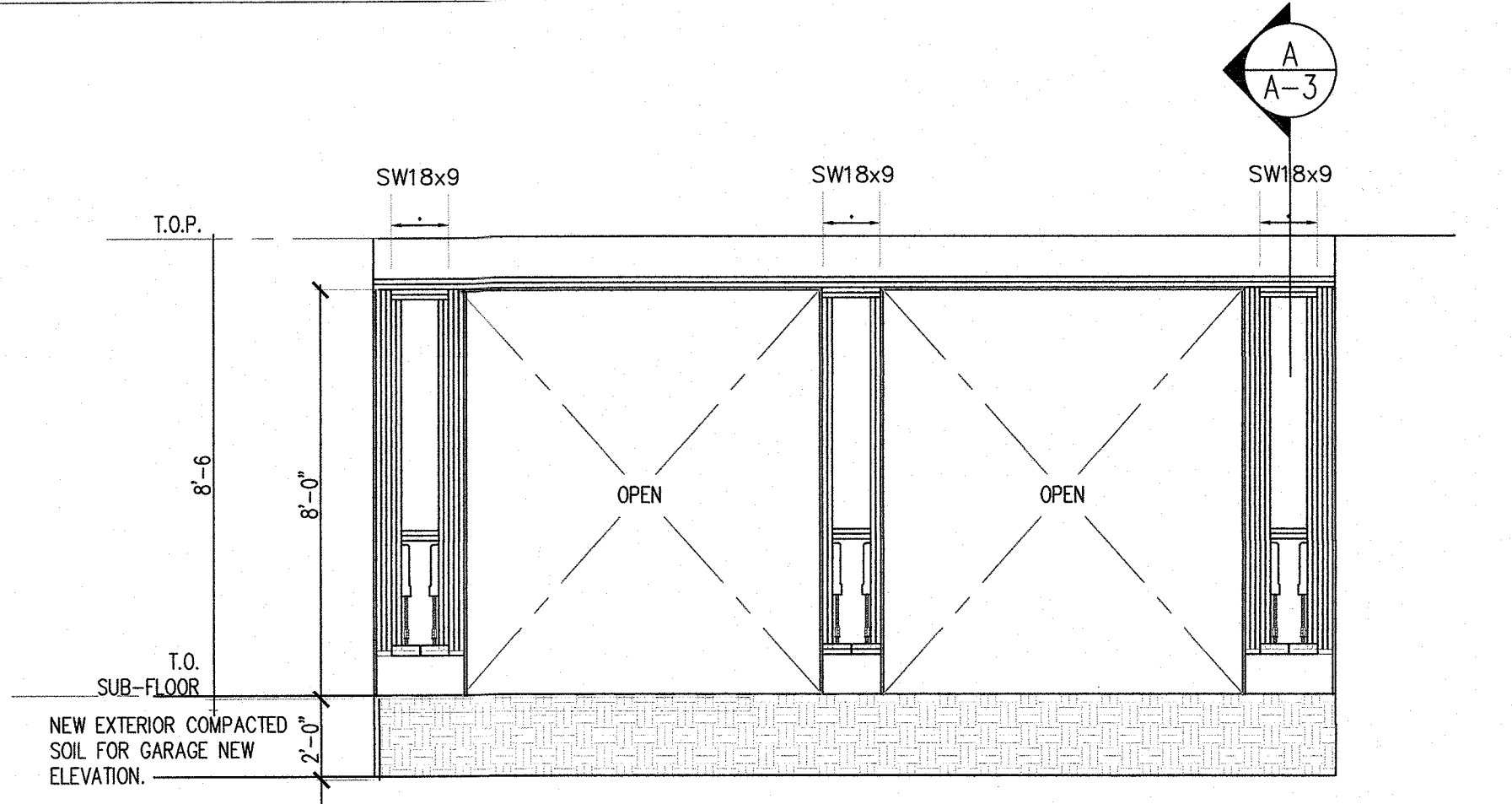
(B) CROSS SECTION
 SCALE: 1/2" = 1'-0"



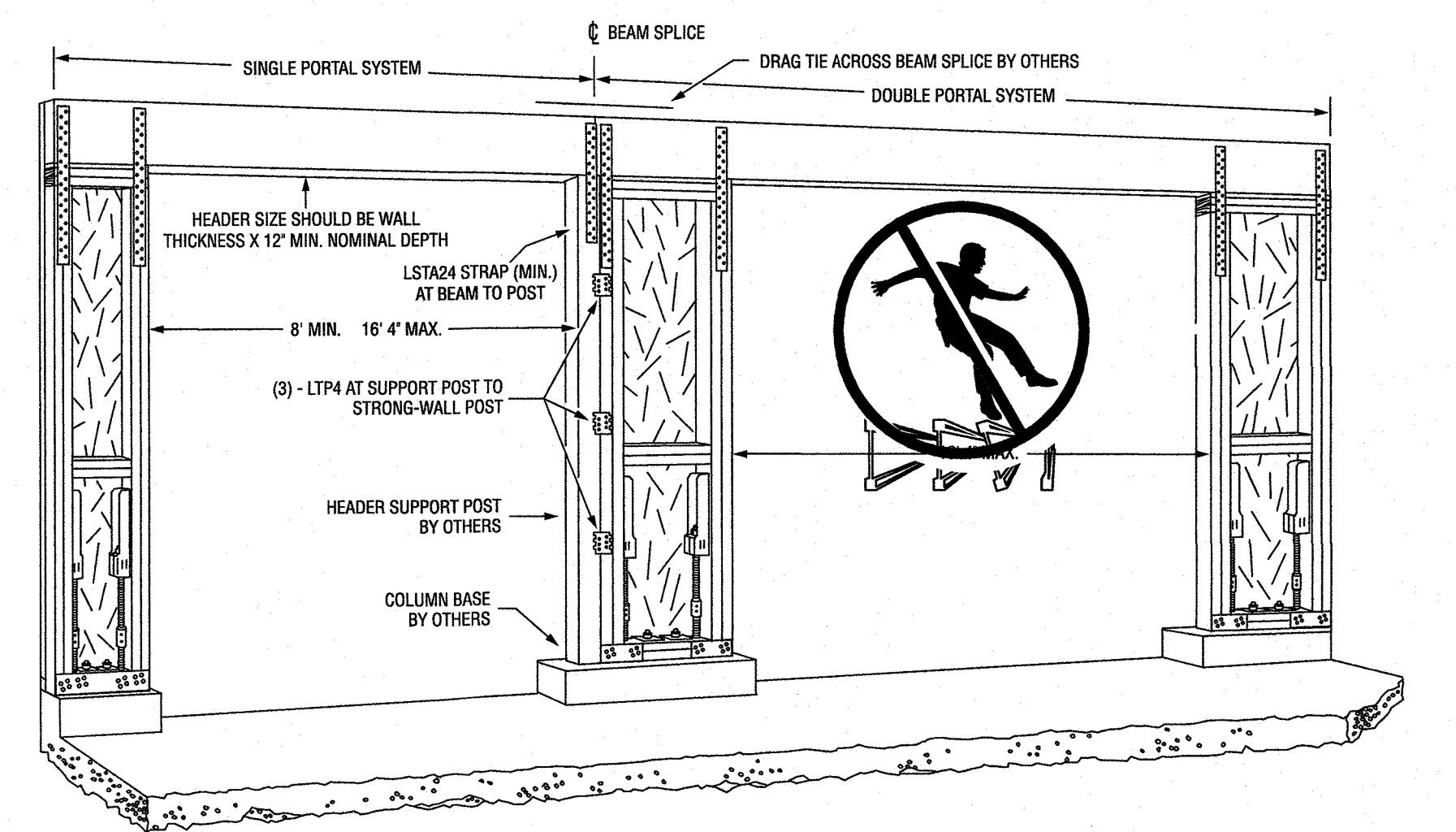
SHEAR WALL DETAILS @ GARAGE
 SCALE: 1/4" = 1'-0"



SHEAR WALL DETAILS @ GARAGE
 SCALE: 1/4" = 1'-0"



SHEAR WALL BY SIMPSON TIE SYSTEM @ GARAGE
 SCALE: 1/4" = 1'-0"



SHEAR WALL DETAILS @ GARAGE
 SCALE: 1/4" = 1'-0"

JOB NO: 218-139
 DATE 06/08/18
 SCALE AS NOTED
 DRN. BY: EAA

ISSUED FOR REVIEWED BY OWNER 10-24-18
 FOR PLANNING BOARD REVIEW 11-7-18
 FOR SUBMISSION 08-12-19
 04-07-20 ACABOR MEETING APPROVED
 05-16-21 AMENDMENT AS PER OWNER

Jenny R. Zuniga-Casal
 ARCHITECT
 Jenny R. Zuniga-Casal Architecture LLC
 77 Sierra Vista Lane, Valley Cottage, NY, 10989
 Tel: 845.598.1613 Fax: 845.512.8290
 Email: jzuniga000@msn.com



NEW CONSTRUCTION
Cornielli Real State Enterprises
 1050 Route 9W
 Nyack, N.Y. 10960

DRAWING NO.:
A-10