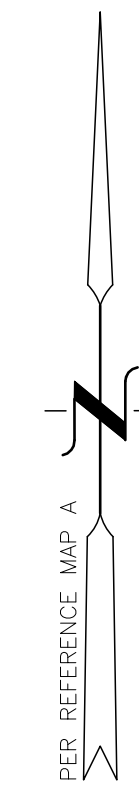
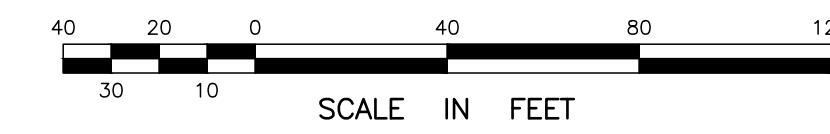


GENERAL NOTES:

- THIS PLAN WAS COMPILED USING THE FOLLOWING REFERENCE MAP:
 - A CLASS A-2 SURVEY MAP ENTITLED "PROPERTY/TOPOGRAPHIC SURVEY, LAND OF LAND OF ORTHO SAYBROOK, LLC, TAX MAP 25 LOT 27, 52 SPENCER PLAIN ROAD OLD SAYBROOK, CONNECTICUT" SCALE: 1"=50', DATED: AUGUST 26, 2019 PREPARED BY ANNINO SURVEY.
- THE APPLICANT IS:
 - ORTHO SAYBROOK, LLC
 - 430 SAYBROOK ROAD, SUITE 100
 - MIDDLETOWN, CT 06457
- THE SUBJECT PARCEL IS IDENTIFIED AS LOT 27 ON TAX ASSESSOR'S MAP 25. THE DEED REFERENCE OF THE PROPERTY IS VOLUME 643 PAGE 458. THE AREA OF THE PARCEL IS 289,459± S.F. OR 6.65 ACRES.
- REFER TO THE FOLLOWING DRAWINGS AND REPORTS FOR ADDITIONAL INFORMATION:
 - SP-1: SITE PLAN
 - LL-1: LANDSCAPE & LIGHTING PLAN
 - QUS-1: GRADING, UTILITIES AND SEPTIC SYSTEM PLAN
 - SES-1: SOIL EROSION & SEDIMENTATION CONTROL PLAN
 - SDC-1: SEPTIC DESIGN CRITERIA & SOIL TESTING DATA
 - CD-1: CONSTRUCTION DETAILS (SEPTIC)
 - CD-2: CONSTRUCTION DETAILS
 - CD-3: CONSTRUCTION DETAILS (WATER)
 - CD-4: CONSTRUCTION DETAILS (DRAINAGE)
 - CD-5: CONSTRUCTION DETAILS
 - ES-1: E&S CONTROL NARRATIVE AND DETAILS
 - ES-2: E&S CONTROL DETAILS
 - SSD-1: SOIL SAMPLE DATA
- REFER TO ARCHITECTURAL CONCEPT DRAWINGS ENTITLED "O&G LEASE BUILDING, OLD SAYBROOK MEDICAL, #52 SPENCER PLAIN RD., OLD SAYBROOK, CT, DATED: FEBRUARY 14, 2024, PREPARED BY: BORGHESI BUILDING & ENGINEERING CO., INC. FOR ADDITIONAL INFORMATION.

GENERAL NOTES (CONT'D):

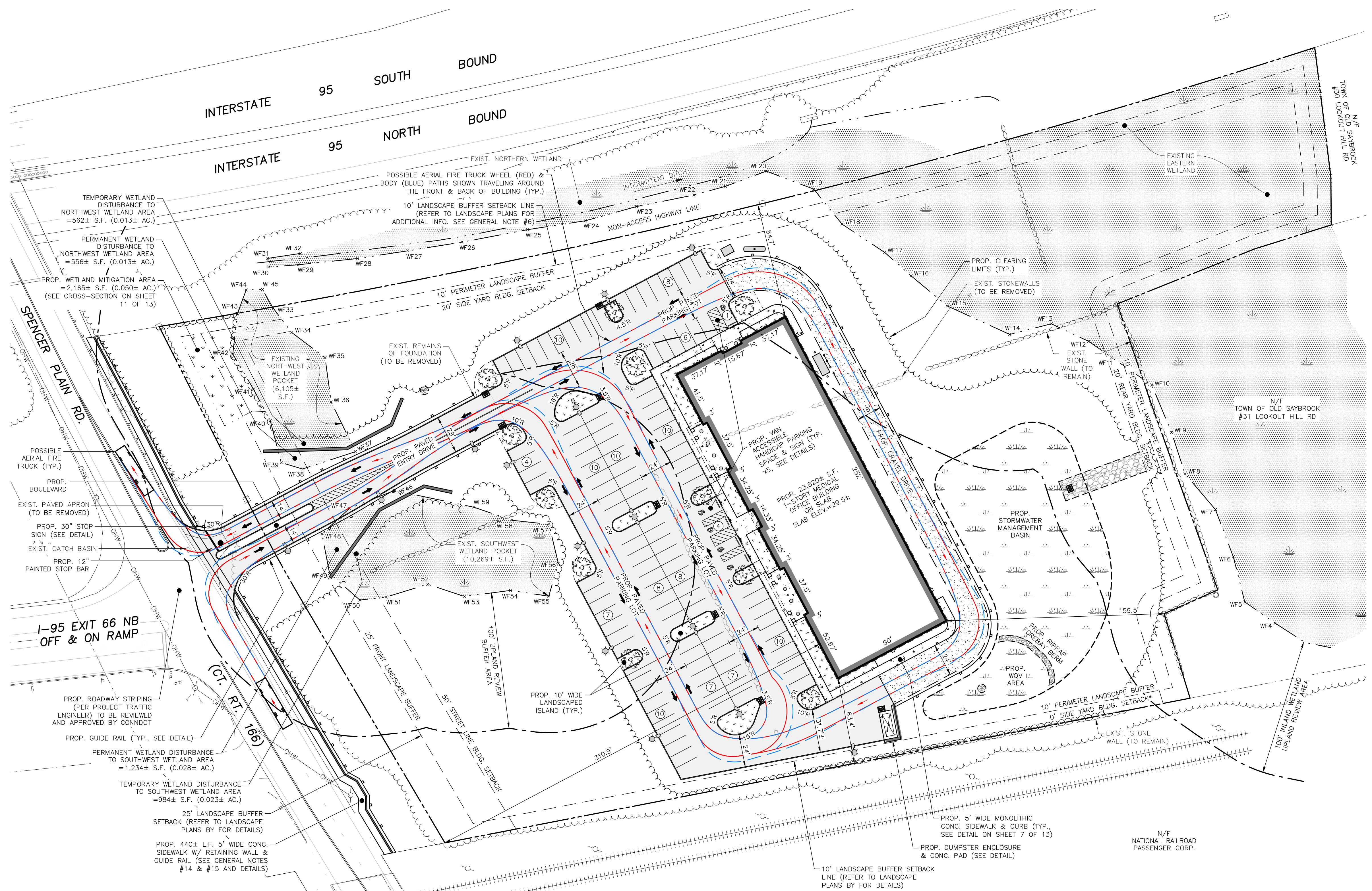
- REFER TO LANDSCAPE PLAN ENTITLED "O&G INDUSTRIES, 52 SPENCER PLAIN RD., OLD SAYBROOK, CT, SCALE 1"=30', DATED: APRIL 18, 2024, PREPARED BY: J.W. FLYNN ASSOC. LLC.
- REFER TO SITE LIGHTING PLAN ENTITLED "52 SPENCER PLAINS ROAD - SITE LIGHTING - OLD SAYBROOK - REVISION 3 JAGI" SCALE: 1"=40', RECEIVED: APRIL 18, 2024, PREPARED BY: LITHONIA LIGHTING.
- THE SUBJECT PROPERTY IS LOCATED WITHIN THE GATEWAY BUSINESS "B-4" ZONING DISTRICT.
- THE APPLICANT IS PROPOSING TO CONSTRUCT A 23,820± S.F. 1-STORY MEDICAL OFFICE BUILDING WITH ASSOCIATED PARKING AND ACCESS DRIVE, INSTALL A 100% CONNECTICUT PUBLIC HEALTH CODE-COMPLIANT SEPTIC SYSTEM, STORMWATER MANAGEMENT AREA, AND OTHER ASSOCIATED IMPROVEMENTS.
- THE PURPOSE OF THIS PLAN IS FOR REVIEW BY THE OLD SAYBROOK INLAND WETLANDS COMMISSION.
- THIS PROPERTY WILL BE SERVED BY PUBLIC WATER AND SUBSURFACE SEWAGE DISPOSAL SYSTEMS. THERE ARE NO KNOWN WELLS OR ANY OTHER KNOWN DESIGN CONFLICTS WITHIN 75 FEET OF THE PROPOSED SEPTIC SYSTEM.
- ALL ELEVATIONS SHOWN HEREON ARE REFERENCED TO NAVD-88 DATUM PER REF. MAP A.
- PARKING AREAS SHALL NOT BE UTILIZED FOR OUTSIDE STORAGE. NO HAZARDOUS MATERIALS SHALL BE STORED ON SITE.
- SIDEWALK CONSTRUCTION SHALL BE COORDINATED WITH THE OLD SAYBROOK PUBLIC WORKS DEPARTMENT. SIDEWALKS SHALL BE PORTLAND CEMENT CONCRETE, LINED WITH A BRICK SOLDIER COURSE OR COLORED, STAMPED CONCRETE IN CONFORMANCE WITH ZONING REGULATIONS SECTION 62 AND IN ACCORDANCE WITH THE CRITERIA AND STANDARDS SPECIFIED IN SECTIONS 700, 80M AND FIGURES 16 & 18 IN THE OLD SAYBROOK REGULATIONS FOR PUBLIC IMPROVEMENTS. SEE DETAIL ON SHEET 10 OF 13 FOR ADDITIONAL INFORMATION.
- THE SIDEWALK DEPICTED WITHIN THE ROUTE 166 RIGHT-OF-WAY WILL ONLY BE REQUIRED TO BE CONSTRUCTED IF IT IS REQUIRED BY ZONING AND IF APPLICABLE DOT PERMITS ARE APPROVED.



ZONING DATA TABLE		
OLD SAYBROOK GATEWAY BUSINESS "B-4" DISTRICT		
ITEM	REQUIRED	PROPOSED
MIN. LOT AREA	20,000 S.F.	289,459± S.F. (GROSS) 228,584± S.F. (NET) (1)
MIN. FRONTAGE	50 FT.	432.68 FT. (EXIST.)
STREET LINE SETBACK	50 FT.	310.9± FT. (PROP. BUILDING)
SIDE YARD SETBACK (NORTH BOUNDARY)	20 FT.	84.7± FT. (PROP. BUILDING)
SIDE YARD SETBACK (SOUTH BOUNDARY)	20 FT. 0 FT. (2)	63.4± FT. (PROP. BUILDING)
REAR YARD SETBACK (EAST BOUNDARY)	20 FT.	159.5± FT. (PROP. BUILDING)
MAX. # OF STORIES	2 1/2 STORIES	1 STORY (PROP. BUILDING)
MAX. BUILDING HEIGHT	35 FT.	33.8± FT. (PROP. BUILDING) (3)
MAX. GROSS FLOOR AREA	60% (137,150 S.F.)	10.4% (23,819± S.F.) (4)
MAX. BUILDING/STRUCTURE COVERAGE	40% (91,433 S.F.)	10.7% (24,441± S.F.) (5)
TOTAL LOT COVERAGE	70% (160,008 S.F.)	37.9% (86,710± S.F.) (6)

- MIN. LOT AREA (I.E., NET LOT AREA) EQUALS GROSS LOT AREA LESS WETLANDS. NET LOT AREA WAS USED TO COMPUTE MAX. GROSS FLOOR AREA AND MAX. BUILDING/STRUCTURE COVERAGE.
- NET LOT AREA = 289,459± S.F. (GROSS) - 60,875± S.F. (WETLANDS) = 228,584± S.F. PER SECTION 68.1.2.5, NO SETBACK IS REQUIRED FROM RAILROAD RIGHT-OF-WAYS IN THE BUSINESS DISTRICT.
- BUILDING HEIGHT WAS MEASURED FROM THE MAX. ROOF RIDGE DOWN TO AVERAGE EXISTING GRADE AT THE PERIMETER OF THE BUILDING.
MAX. BLDG. HEIGHT = EL. 56.3± (MAX. RIDGE) - EL. 22.5± (AVG. EX. GRADE) = 33.8± (NOTE: BUILDING HEIGHT IS 28.3± FT. AS MEASURED FROM PROPOSED FINISHED GRADE)
- MAX. GROSS FLOOR AREA INCLUDES BUILDING AREA ENCLOSED BY WALLS AND OPEN COVERED ENTRIES.
MAX. G.F.A. = 22,381± S.F. (BUILDING AREA) + 1,439± S.F. (ENTRIES) = 23,820 S.F.
BUILDING/STRUCTURE COVERAGE INCLUDES GROSS FLOOR AREA PLUS TRANSFORMER.
MAX. BLDG./STRUCT. COVERAGE = 23,820± S.F. (MAX. G.F.A.)
+ 477± (RETAINING WALLS)
+ 144± (ABOVE GROUND UTILITIES)
= 24,441± S.F.
- MAX. TOTAL LOT COVERAGE INCLUDES ALL BUILDING/STRUCTURE COVERAGE PLUS THE PAVED DRIVE, WALKS, WALLS AND OTHER IMPERVIOUS AREAS.
TOTAL LOT COVERAGE = 24,441± S.F. (BLDG./STRUCT. COVERAGE)
+ 62,269 ±S.F. (DRIVE, WALKS, ETC.) = 86,710± S.F.

PARKING REQUIREMENTS		
ITEM	REQUIRED	PROPOSED
MINIMUM REQUIRED PARKING SPACES	MEDICAL OFFICE: 1 SPACE PER 200 S.F. G.F.A. 23,820± S.F. x 1 SPACE PER 200 S.F. = 120 SPACES	120 SPACES (INCLUDES 5 HANDICAP PARKING SPACES)



PLAN PREPARED BY:
INDIGO LAND DESIGN, LLC
JOSEPH WREN, P.E.
CT REG. NO. 21090
100 E. MAIN STREET, 2ND FLOOR
OLD SAYBROOK, CT 06457
PHONE: (860) 388-9343
WEB: INDIGO-LAND.COM

THE EMBOSSED SEAL OF THE TOWN OF OLD SAYBROOK, CONNECTICUT, IS AFFIXED HERE FOR THIS MAP TO BE VALID

#	DATE	REVISIONS PER TOWN ENGINEER'S COMMENTS, MISC.	DESCRIPTION
1	5/14/2024		

SITE PLAN
PREPARED FOR ORTHO SAYBROOK, LLC
52 SPENCER PLAIN ROAD (CT ROUTE 166)
(MAP 25 LOT 27)
OLD SAYBROOK, CONNECTICUT

DATE: APRIL 4, 2024
SCALE: 1"=40'
DRAWN BY: RG
CHECKED BY: JW
DWG. NO.: SP-1
SHEET NO.: 1 of 13
JOB NO.: 2023-1030

FOR REVIEW - NOT FOR CONSTRUCTION

Approved by the Old Saybrook Zoning Commission

Title _____ Signature _____ Date _____

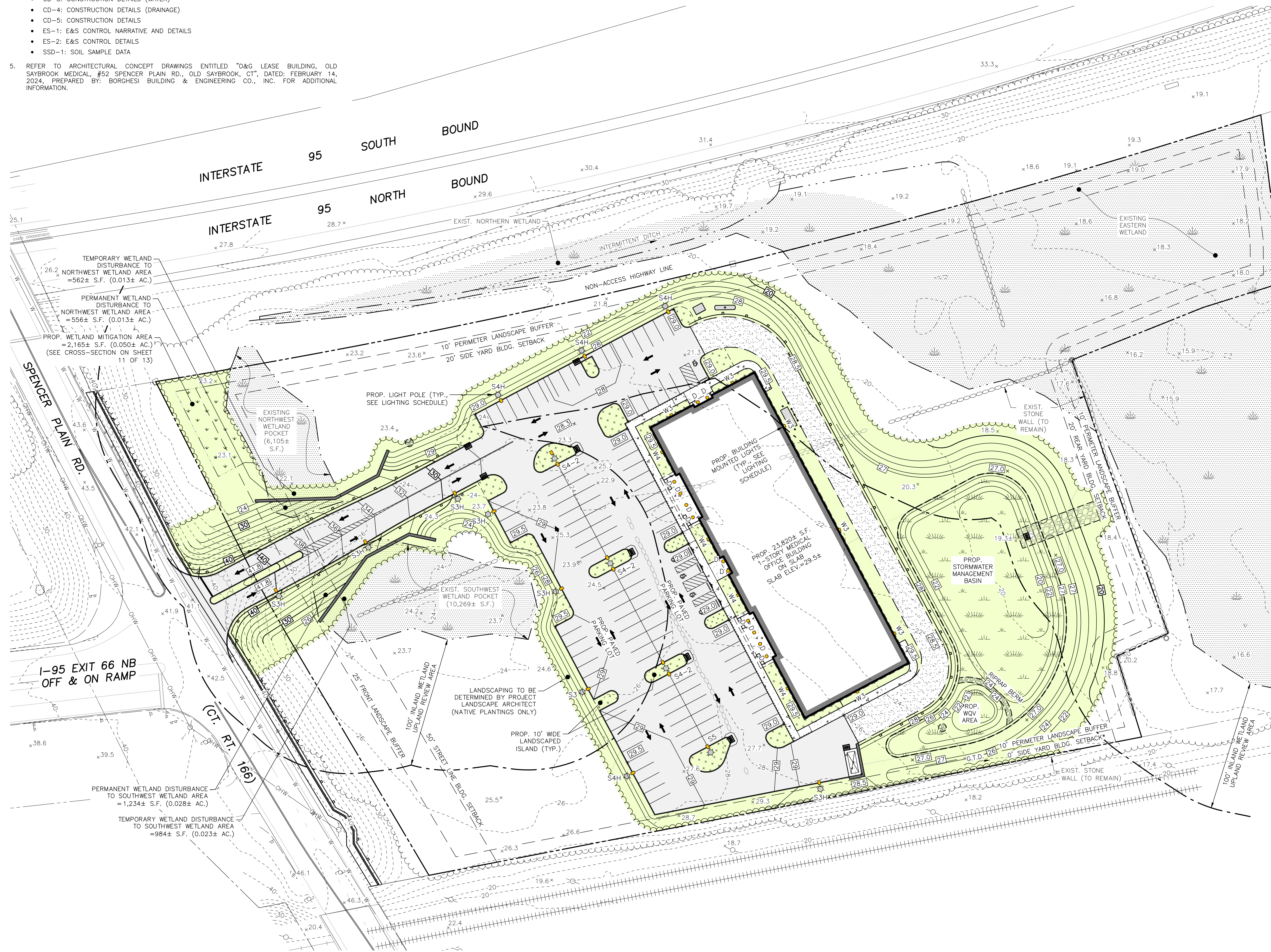
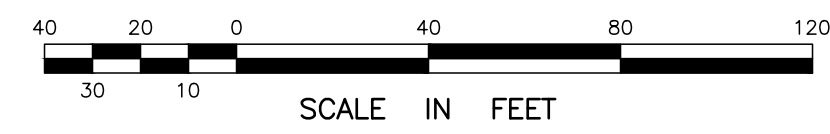
GENERAL NOTES:

- THIS PLAN WAS COMPILED USING THE FOLLOWING REFERENCE MAP:
 - A CLASS A-2 SURVEY MAP ENTITLED "PROPERTY/TOPOGRAPHIC SURVEY, LAND OF LAND OF ORTHO SAYBROOK, LLC, TAX MAP 25 LOT 27, 52 SPENCER PLAIN ROAD OLD SAYBROOK, CONNECTICUT" SCALE: 1"=50', DATED: AUGUST 26, 2019 PREPARED BY ANNINO SURVEY.
- THE APPLICANT IS:

ORTHO SAYBROOK, LLC
430 SAYBROOK ROAD, SUITE 100
MIDDLETOWN, CT 06457
- THE SUBJECT PARCEL IS IDENTIFIED AS LOT 27 ON TAX ASSESSOR'S MAP 25. THE DEED REFERENCE OF THE PROPERTY IS VOLUME 643 PAGE 458. THE AREA OF THE PARCEL IS 289,459± S.F. OR 6.65 ACRES.
- REFER TO THE FOLLOWING DRAWINGS AND REPORTS FOR ADDITIONAL INFORMATION:
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- REFER TO ARCHITECTURAL CONCEPT DRAWINGS ENTITLED "O&G LEASE BUILDING, OLD SAYBROOK MEDICAL, #52 SPENCER PLAIN RD., OLD SAYBROOK, CT", DATED: FEBRUARY 14, 2024, PREPARED BY: BORGHESI BUILDING & ENGINEERING CO., INC. FOR ADDITIONAL INFORMATION.

GENERAL NOTES (CONT'D):

- REFER TO LANDSCAPE PLAN ENTITLED "O&G INDUSTRIES, 52 SPENCER PLAIN RD., OLD SAYBROOK, CT", SCALE 1"=30', DATED: APRIL 18, 2024, PREPARED BY: J.W. FLYNN ASSOC. LLC.
- REFER TO SITE LIGHTING PLAN ENTITLED "52 SPENCER PLAINS ROAD - SITE LIGHTING - OLD SAYBROOK - REVISION 3.AGI" SCALE: 1"=40', RECEIVED: APRIL 18, 2024, PREPARED BY: LITHONIA LIGHTING.



LANDSCAPING NOTES:

- LANDSCAPING SHOWN IS FOR REFERENCE ONLY. REFER TO LANDSCAPE PLANS FOR LANDSCAPE INFORMATION.
- ALL PLANTING LOCATIONS ARE APPROXIMATE AND MAY BE ADJUSTED DUE TO ACTUAL FIELD CONDITIONS.
- ALL PLANTINGS MUST BE IN HEALTHY, GROWING CONDITION WHEN INSTALLED. ALL PLANTINGS SHALL BE GUARANTEED FOR A MINIMUM OF ONE YEAR FROM THE INSTALLATION DATE.
- ALL TREES SHALL BE PLANTED IN ACCORDANCE WITH STANDARD LANDSCAPING PRACTICES. PLANTINGS SHOULD BE INSTALLED BETWEEN MARCH 15 AND JUNE 15 OR BETWEEN SEPTEMBER 15 AND NOVEMBER 15, WEATHER PERMITTING.
- ALL UTILITY LOCATIONS SHALL BE MARKED PRIOR TO INSTALLATION OF TREES AND SHRUBS. CONTACT CALL BEFORE YOU DIG 800-922-4455. THE LANDSCAPING CONTRACTOR SHALL NOT BEGIN WORK UNTIL THE LOCATIONS OF ALL UNDERGROUND UTILITIES ARE VERIFIED AND MARKED IN THE FIELD.
- PROPOSED GROUND COVER AROUND ALL NEW TREES AND SHRUBS SHALL BE HEMLOCK OR CEDAR MULCH OR EQUIVALENT (SEE DETAILS).

LIGHTING NOTES:

- REFER TO LIGHTING PLANS PREPARED BY LITHONIA LIGHTING FOR LIGHTING DETAILS.
- MAXIMUM TOTAL HEIGHT OF LIGHT POLES AND FIXTURES SHALL BE 14 FEET FROM FINISHED GRADE. CONCRETE LIGHT POLE BASES SHALL BE FLUSH WITH THE GROUND SURFACE AND PAINTED A DARK COLOR. LIGHT POLES SHALL CONFORM TO ALL LIGHT POLE MANUFACTURER REQUIREMENTS.
- ALL LIGHT POLES SHALL BE A MINIMUM OF 5 FEET FROM THE EDGE OF PAVEMENT.
- ELECTRICAL SERVICES AND CONNECTIONS FOR SITE LIGHTING TO AND FROM THE BUILDING ELECTRICAL ROOM ARE NOT SHOWN ON THIS PLAN. OPTIMUM ROUTES SHALL BE SELECTED BY THE CONTRACTOR AND REVIEWED AND APPROVED BY THE OWNER PRIOR TO INSTALLATION.
- OPTIMUM FIXTURE HEAD ORIENTATION TO BE SET BY SITE LIGHTING CONTRACTOR.
- FINAL LIGHT FIXTURES, POLES AND ACCESSORIES SHALL BE FULL CUTOFF AND SELECTED AND APPROVED BY PROPERTY OWNER AND TOWN OF OLD SAYBROOK PRIOR TO INSTALLATION.
- NO FREESTANDING OR BUILDING SIGNS ARE PROPOSED AT THIS TIME.

SIGNAGE NOTES:

- ONE FREESTANDING SIGN IS ALLOWED PER LOT. THE FREESTANDING SIGN SHALL HAVE A MAXIMUM AREA OF 50 S.F. THE SIGN'S SUPPORT STRUCTURE SHALL NOT EXCEED 8 FEET IN HEIGHT AND THE MAXIMUM SIGN HEIGHT SHALL NOT EXCEED 10 FEET.
- THE FREESTANDING SIGN SHALL BE 10 FEET MIN. FROM THE STREET LINE AND 5 FEET MIN. FROM THE REAR AND OTHER PROPERTY LINES.
- ONE WALL SIGN IS ALLOWED PER TENANT. THE WALL SIGN SHALL NOT EXCEED 10% OF THE WALL AREA OR 100 S.F. EACH.
- FREESTANDING SIGNS AND WALL SIGNS MAY BE ILLUMINATED AS ALLOWED IN THE B-4 ZONING DISTRICT.
- REFER TO PROJECT ARCHITECTURAL PLANS FOR SIGN DETAILS.

LANDSCAPING DATA TABLE		
OLD SAYBROOK GATEWAY BUSINESS B-4 DISTRICT		
ITEM	REQUIRED	PROPOSED
MINIMUM LANDSCAPE AREA (SECTION 63.1)	25% (72,365 S.F.)	
MINIMUM NUMBER OF TREES (SECTION 63.1)	12 TREES / ACRE 12 TREES x 6.65 AC. = 80 TREES	
FRONT LANDSCAPING (SECTION 63.3)	MIN. WIDTH = 25 FT. 1 TREE / 40 FT. OF FRONTAGE 432 FT. / 40 FT. = 11 TREES	69.2% OF THE TOTAL LOT AREA IS GREEN AREA & WOODED AREA. REFER TO LANDSCAPE PLANS (SEE GENERAL NOTE #6)
PERIMETER LANDSCAPING (SECTION 63.4)	MIN. WIDTH = 10 FT. 1 EVERGREEN TREE SPACED 10' O.C. 758± FT. / 10 FT. = 76 TREES (1)	
INTERIOR PARKING LOT LANDSCAPING (SECTION 63.5)	1 ISLAND FOR EVERY 10 PARKING SPACES (20 S.F. MIN. LANDSCAPED) MIN. 100 S.F. LANDSCAPED AREA 10' MIN DEPTH	

LIGHTING SCHEDULE					
SYMBOL	LABEL	QUANTITY	ITEM	COLOR TEMP.	INTENSITY
●	D	12	BUILDING DROP SOFFIT LIGHT	3,000K	923 LUMENS
■	W3	6	BUILDING WALL MOUNTED LIGHT	3,000K	5,078 LUMENS
■	W4	4	BUILDING MOUNTED WALL PACK	3,000K	5,171 LUMENS
☼	S3	1	POLE MOUNTED LIGHT	3,000K	5,383 LUMENS
☼	S3H	6	POLE MOUNTED LIGHT	3,000K	3,915 LUMENS
☼	S4-2	3	POLE MOUNTED DOUBLE LIGHT	3,000K	5,463 LUMENS
☼	S4H	4	POLE MOUNTED LIGHT	3,000K	4,043 LUMENS
☼	S5	1	POLE MOUNTED LIGHT	3,000K	5,637 LUMENS

*OR EQUIVALENT - SEE DETAIL.

FOR REVIEW - NOT FOR CONSTRUCTION

Approved by the Old Saybrook Zoning Commission

Title _____ Signature _____ Date _____

PLAN PREPARED BY:
INDIGO LAND DESIGN, LLC
JOSEPH WREN, P.E.
CT REG. NO. 21090
0 FLEET STREET, 2ND FLOOR
OLD SAYBROOK, CT 06457
PHONE: (860) 388-9383
WEB: INDIGO-LAND.COM

THE EMBOSSED SEAL OF THE TOWN OF OLD SAYBROOK, CONNECTICUT, MUST BE AFFIXED HERE FOR THIS MAP TO BE VALID

#	DATE	REVISIONS PER TOWN ENGINEER'S COMMENTS, MISC.	DESCRIPTION	BY
1	5/14/2024			

LANDSCAPING & LIGHTING PLAN
PREPARED FOR ORTHO SAYBROOK, LLC
52 SPENCER PLAIN ROAD (CT ROUTE 166)
(MAP 25 LOT 27)
OLD SAYBROOK, CONNECTICUT

DATE: APRIL 4, 2024
SCALE: 1"=40'
DRAWN BY: RG
CHECKED BY: JW
DWG. NO.: LL-1

SHEET NO.: 2 of 13
JOB NO.: 2023-1030

GENERAL NOTES:

- THIS PLAN WAS COMPILED USING THE FOLLOWING REFERENCE MAP:
 - A CLASS A-2 SURVEY MAP ENTITLED "PROPERTY/TOPOGRAPHIC SURVEY, LAND OF LAND OF ORTHO SAYBROOK, LLC, TAX MAP 25 LOT 27, 52 SPENCER PLAIN ROAD OLD SAYBROOK, CONNECTICUT" SCALE: 1"=50', DATED: AUGUST 26, 2019 PREPARED BY ANNINO SURVEY.
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 - 430 SAYBROOK ROAD, SUITE 100
 - MIDDLETOWN, CT 06457
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- REFER TO LANDSCAPE PLAN ENTITLED "O&G INDUSTRIES, 52 SPENCER PLAIN RD., OLD SAYBROOK, CT", SCALE 1"=30', DATED: APRIL 18, 2024, PREPARED BY: J.W. FLYNN ASSOC. LLC.
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CONSTRUCTION NOTES:

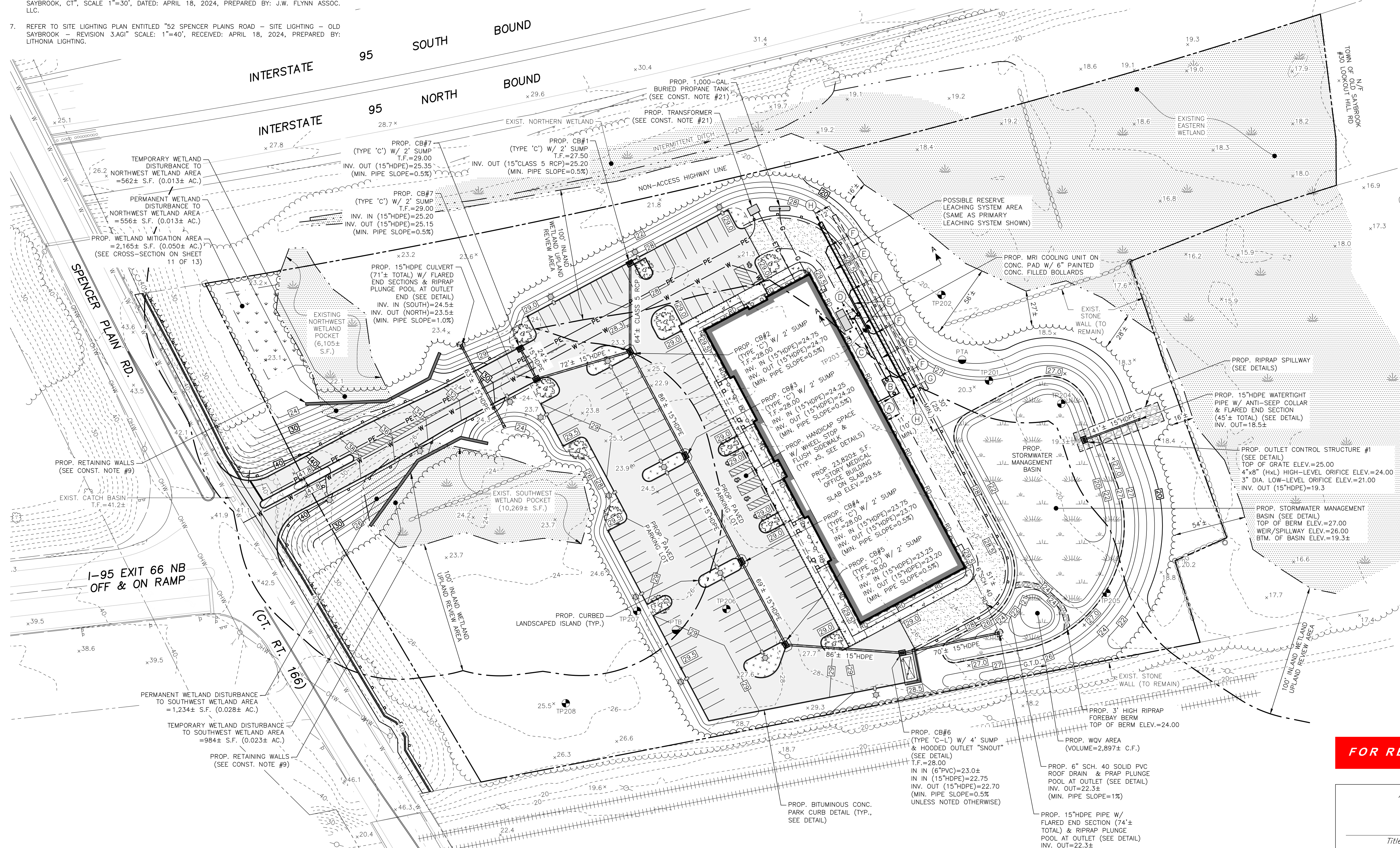
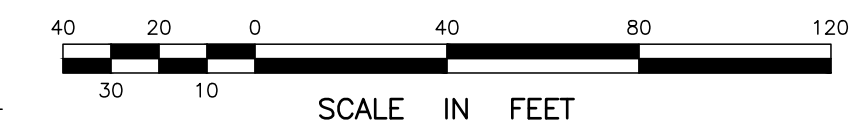
- THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON FIELD LOCATIONS AND INFORMATION PROVIDED BY OTHERS. THEIR ACTUAL LOCATION MAY VARY FROM THOSE INDICATED AND ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN. THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 800-922-4455 TO MARK OUT ALL UNDERGROUND UTILITIES A MINIMUM OF 3 BUSINESS DAYS PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY. CONTRACTOR SHALL VERIFY ALL LOCATIONS, DIMENSIONS AND ELEVATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL ADHERE TO ALL APPLICABLE TOWN OF OLD SAYBROOK STANDARDS AND REGULATIONS.
- ALL UTILITIES SHALL BE INSTALLED IN CONFORMANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE TOWN OF OLD SAYBROOK AND THE CUSTODIAL UTILITY COMPANIES. ALL UTILITY TRENCHES SHALL BE NO LESS THAN 5 FEET FROM THE SEPTIC SYSTEMS AND NOT BACKFILLED WITH FREE DRAINING MATERIAL. ALL WATER LINES SHALL BE A MINIMUM OF 10 FEET FROM ANY PART OF THE SEPTIC SYSTEMS.
- ALL PROPERTY LINES SHALL BE VERIFIED IN THE FIELD. NO PRIVATE PROPERTY SHALL BE DISTURBED UNLESS PROPER RIGHTS ARE OBTAINED PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND CONFORMING TO ALL PERMITS AND ALL BONDING AND INSURANCE REQUIRED BY THE TOWN OF OLD SAYBROOK AND CUSTODIAL UTILITY COMPANIES. A CONDOT ENCROACHMENT PERMIT WILL BE REQUIRED FOR ALL WORK WITHIN THE SPENCER PLAIN ROAD RIGHT-OF-WAY. IF ANY BLASTING IS REQUIRED, ALL PRE-BLAST SURVEYS AND ANY APPLICABLE PERMITS SHALL BE COORDINATED AND SECURED BY THE CONTRACTOR. THE CONTRACTOR SHALL CONFIRM AND ABIDE BY ANY APPLICABLE 'NO HAMMER' TIME PERIODS OF THE COMMUNITY.
- THE CONTRACTOR SHALL OBTAIN, REVIEW AND ADHERE TO ALL REQUIREMENTS AND ANY CONDITIONS OF APPROVAL OF THE TOWN OF OLD SAYBROOK, CONNECTICUT DOT, AND THE CONNECTICUT RIVER AREA HEALTH DISTRICT (CRAHD).
- THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT ADJACENT PROPERTIES AND WETLAND AREAS FROM ANY EROSION AND/OR SEDIMENTATION. SILT FENCE SHALL BE INSTALLED AS SHOWN AND SHALL BE MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION.
- THE PROPOSED BUILDING WILL BE CONSTRUCTED ON SLAB AND WILL NOT HAVE FOOTING DRAINS. THERE ARE NO KNOWN DOWNGRADED SEPTIC SYSTEM COMPONENTS WITHIN 25 FEET OF ANY UPGRADED GROUNDWATER DRAINS OR ANY UPGRADED SEPTIC SYSTEM COMPONENTS WITHIN 50 FEET OF ANY DOWNGRADED GROUNDWATER DRAINS.
- ALL EXISTING DRAINAGE PATTERNS SHALL BE MAINTAINED. THE CONTRACTOR SHALL GRADE THE PROPERTY IN SUCH A MANNER TO MAINTAIN EXISTING LOCAL DRAINAGE PATTERNS AND TO PREVENT EXCESS RUNOFF AND/OR PONDING ON ADJACENT PROPERTIES BOTH DURING AND AFTER CONSTRUCTION.
- ALL RETAINING WALLS SHALL BE DESIGNED BY OTHERS AND SHALL INCLUDE ADEQUATE FALL PROTECTION AS REQUIRED AND SHALL NOT EXCEED 7 FEET WITHIN ANY BUILDING SETBACK LINE.
- ALL PROPOSED UTILITIES SHALL BE INSTALLED UNDERGROUND.

CONSTRUCTION NOTES (CONTINUED):

- ALL MATERIALS AND CONSTRUCTION METHODS FOR SITE WORK SHALL BE IN CONFORMANCE WITH THE CONNECTICUT D.O.T. "STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION" FORM 818, 2020 OR AS AMENDED. ANY VARIATION FROM THIS SPECIFICATION SHALL BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION.
- ALL JOINTS BETWEEN EXISTING AND NEW PAVEMENT SHALL BE PROPERLY SAWCUT, TACK COATED AND SEALED AS APPLICABLE. ALL PROPOSED JOINTS SHALL BE FLUSH AND MATCH EXISTING GRADES. SAWCUT LINES AND BE MODIFIED AS NECESSARY TO MEET CONSTRUCTION REQUIREMENTS UPON REVIEW AND APPROVAL BY THE DESIGN ENGINEER.
- PRIOR TO CONSTRUCTION, A LICENSED LAND SURVEYOR SHALL SET A STABLE BENCHMARK ON SITE (NAVD-88) AND ALL PROPOSED IMPROVEMENTS SHALL BE STAKED OUT.
- PERIMETER ROOF DRAINS SHALL BE 6" (MIN.) SCHEDULE 40 PVC ASTM D1785 ~ LOCATIONS AND SIZES OF ROOF DRAINS PROVIDED BY THE PROJECT ARCHITECT OR MEP ENGINEER SHALL SUPERSEDE THESE PLANS. ALL ROOF DRAINS SHALL BE DIRECTED TO A STORMWATER MANAGEMENT BASIN.
- ALL UTILITY DEMANDS AND SIZES AND OPTIMAL BUILDING ENTRY LOCATIONS, SITE LIGHTING WIRING, UNDERSLAB UTILITY CONNECTIONS, AND ALL OTHER UTILITY RELATED INFORMATION SHALL BE DETERMINED BY THE PROJECT MEP ENGINEER. REFER TO PROJECT MEP PLANS FOR DETAILED INFORMATION.
- A LICENSED LAND SURVEYOR SHALL PREPARE AN AS-BUILT OF THE PROPOSED BUILDING AND UTILITIES CERTIFYING THAT THE IMPROVEMENTS ARE IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED PLAN. THE AS-BUILT PLAN SHALL BE COMPLETED IN A TIMELY MANNER.
- GENERAL LOT GRADING AND THE FINISHED FLOOR ELEVATION OF THE PROPOSED BUILDING ARE BASED ON AVAILABLE INFORMATION. THESE ELEVATIONS MAY BE ADJUSTED BY THE CONTRACTOR TO CONFORM TO ACTUAL FIELD CONDITIONS UPON REVIEW AND APPROVAL OF THE DESIGN ENGINEER.
- THE CONTRACTOR SHALL CONFORM TO ALL APPLICABLE TOWN OF OLD SAYBROOK STANDARDS AND REGULATIONS FOR ALL ROADWAY, DRAINAGE AND UTILITY WORK.
- THE APPLICANT SHALL BE RESPONSIBLE FOR THE INITIAL REMOVAL OF TREES AND VEGETATION AND COMPLETION OF ANY NECESSARY GRADING ALONG THE SIGHT LINE.
- THE CONTRACTOR SHALL PREPARE THE SITE AND PERFORM THE WORK IN A WORKMANLIKE MANNER AND SHALL KEEP THE ROADWAYS SAFE TO VEHICLES AND PEDESTRIANS AT ALL TIMES.
- ALL PROPOSED UTILITIES, TRANSFORMER AND UNDERGROUND 1,000-GALLON PROPANE TANK SHALL BE INSTALLED IN STRICT CONFORMANCE WITH ALL APPLICABLE CODES AND SPECIFICATIONS AND REQUIRED SEPARATION DISTANCES. FINAL SIZE AND LOCATION OF THE PROPOSED TRANSFORMER TO BE DETERMINED BY CUSTODIAL UTILITY COMPANY.

WATER MAIN/SERVICE NOTES:

- THE PROPOSED WATER MAIN & SERVICE SHALL BE INSTALLED WITH A MINIMUM OF 4'6" OF COVER AS MEASURED TO THE FINAL GRADE.
- ANY REQUIRED THRUST BLOCKS OR VALVES SHALL BE PROVIDED IN ACCORDANCE WITH ALL CONNECTICUT WATER COMPANY REQUIREMENTS.
- ALL WATER MAIN AND WATER SERVICE WORK SHALL BE COORDINATED WITH AND INSPECTED BY THE CONNECTICUT WATER COMPANY, AS REQUIRED. ALL MATERIALS AND CONSTRUCTION METHODOLOGIES SHALL CONFORM TO ALL SPECIFICATIONS AND REQUIREMENTS OF THE CONNECTICUT WATER COMPANY.
- ALL DOMESTIC WATER SERVICES SHALL BY 2" TYPE K COPPER OR APPROVED EQUAL. ALL WATER SERVICES AND SHUT OFFS SHALL BE INSTALLED TO THE RIGHT-OF-WAY LINE OR AS OTHERWISE SPECIFIED BY THE CONNECTICUT WATER COMPANY.
- A MINIMUM OF 5 FEET OF LATERAL SEPARATION SHALL BE PROVIDED BETWEEN ANY PROPOSED MAIN OR SERVICE AND ANY UNDERGROUND ELECTRICAL UTILITY WHEREVER FEASIBLY POSSIBLE.
- ALL FINAL VALVE LOCATIONS AND METERS SHALL BE DETERMINED BY THE CONNECTICUT WATER COMPANY.



INLAND WETLAND DATA TABLE

ITEM	NORTHWEST WETLAND	SOUTHWEST WETLAND	EASTERN WETLAND	TOTAL
WETLAND AREA ON SITE	5,822± S.F. (0.134± AC.)	10,267± S.F. (0.236± AC.)	NONE	44,785± S.F. (1.028± AC.)
PERMANENT WETLAND DISTURBANCE	556± S.F. (0.013± AC.)	1,234± S.F. (0.028± AC.)	NONE	1,790± S.F. (0.041± AC.)
TEMPORARY WETLAND DISTURBANCE	562± S.F. (0.013± AC.)	984± S.F. (0.023± AC.)	NONE	1,546± S.F. (0.035± AC.)
100' UPLAND REVIEW AREA DISTURBANCE	85,021± S.F. (1.95± AC.) (ON PROPERTY)	94,024± S.F. (1.16± AC.) (TOTAL)		---

WETLAND MITIGATION AREA = 2,165± S.F.
(WETLAND MITIGATION AREA > TOTAL PERMANENT WETLAND DISTURBANCE)

- SEPTIC SYSTEM KEY**
- (A) 11.0± L.F. 4" SCH. 40 ASTM D1785 SOLID PVC BUILDING SEWER PIPE @ 1/4" PER FT. MIN. SLOPE WITH 12" MIN. COVER.
 - (B) 2,000-GALLON H-20 CONCRETE SEPTIC TANK (JOLLEY PRECAST OR EQUIVALENT) (SEE DETAIL).*
 - (C) 4" SCH. 40 ASTM D1785 SOLID PVC PIPE TO CONNECT TO DISTRIBUTION BOX.
 - (D) "10-HOLE" H-20 CONCRETE DISTRIBUTION BOX (JOLLEY PRECAST OR EQUIVALENT).
 - (E) 4" SCH. 40 ASTM D1785 SOLID PVC PIPE TO CONNECT TO LEACHING SYSTEM PER MANUFACTURER'S SPECIFICATIONS.
 - (F) 4" SCH. 40 ASTM D1785 SOLID PVC DISTRIBUTION TEE TO CONNECT AT 18.75 FT. AND 56.25 FT. FROM LEACHING SYSTEM ENDS (TYP. x4).
 - (G) 150.0 L.F. OF GEOMATRIX GST3724 LEACHING SYSTEM WITH H-20 PROVISIONS (SEE DETAILS).
 - (H) 4" SCH. 40 ASTM 1785 INSPECTION PORT AT END OF LEACHING SYSTEM - GEOMATRIX PART NO.: IPGS15 (TYP. x2. SEE DETAIL).*
- *SEPTIC TANK AND DISTRIBUTION BOX SHALL HAVE H-20 RISERS TO FINISHED GRADE. INSPECTION PORTS SHALL HAVE H-20 VALVE COVER ASSEMBLIES TO FINISHED GRADE. CONTRACTOR SHALL VERIFY SEPTIC TANK IS WATERTIGHT PRIOR TO INSTALLATION.
- REFER TO SEPTIC SYSTEM INVERT TABLE ON SHEET SDC-1 (5 OF 13) FOR PROPOSED INVERT ELEVATIONS.

FOR REVIEW - NOT FOR CONSTRUCTION

Approved by the Old Saybrook Zoning Commission

Title _____ Signature _____ Date _____

PLAN PREPARED BY:
INDIGO LAND DESIGN, LLC
JOSEPH WREN, P.E.
CT REG. NO. 21090
100 ELM STREET, 2ND FLOOR
OLD SAYBROOK, CT 06457
PHONE: (860) 388-9383
WEB: INDIGO-LAND.COM

THE EMBOSSED SEAL OF
THE REGISTERED PROFESSIONAL ENGINEER
MAY BE AFFIXED HERE FOR THIS
MAP TO BE VALID

#	DATE	DESCRIPTION	BY
1	5/14/2024	REVISIONS PER TOWN ENGINEER'S COMMENTS, MISC.	RG

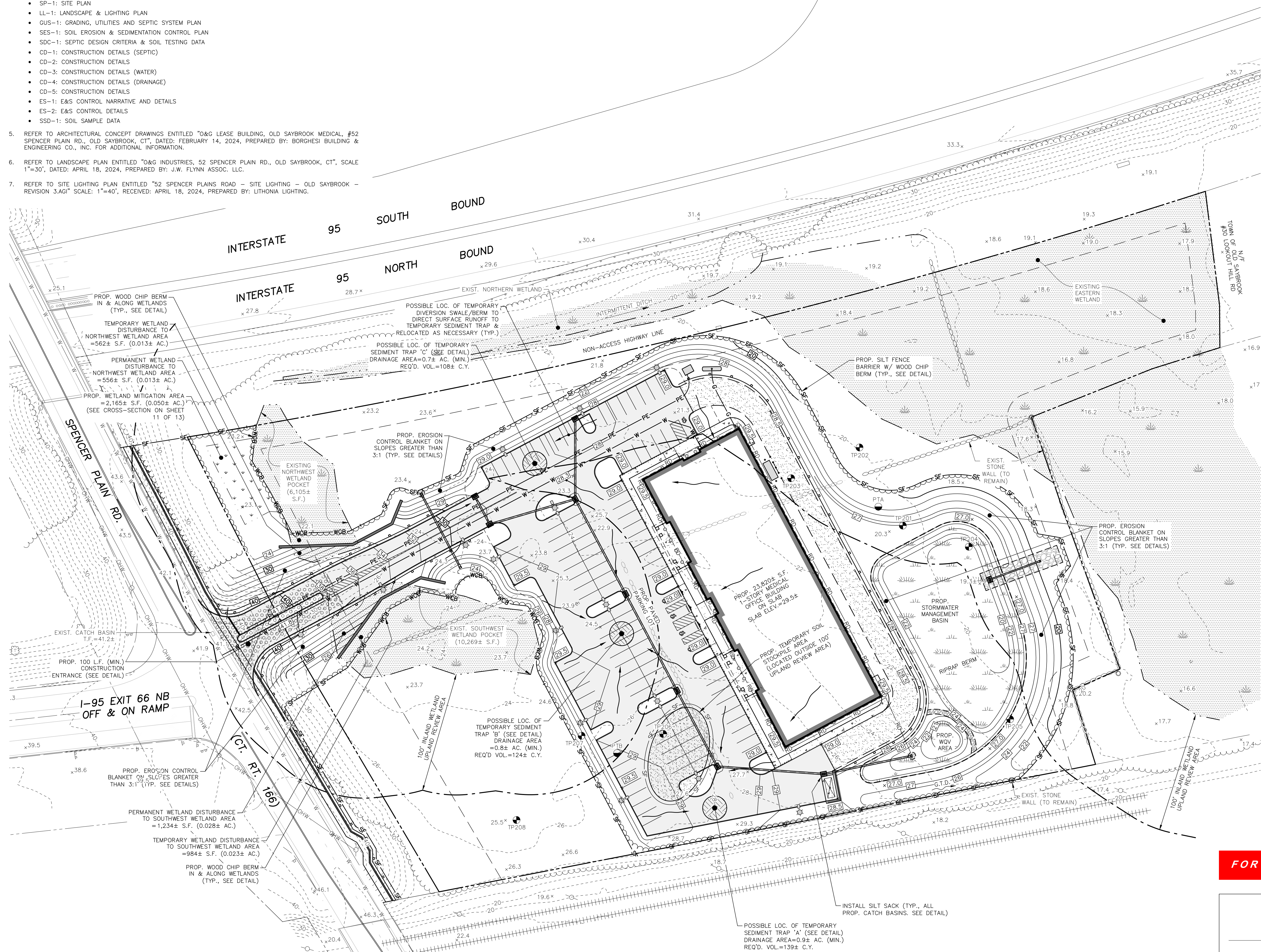
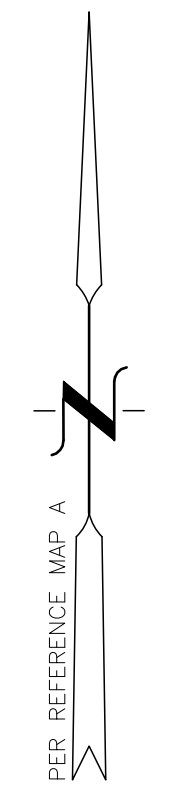
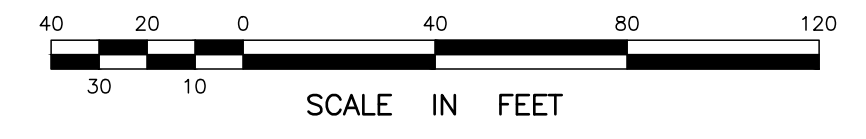
GRADING, UTILITIES & SEPTIC SYSTEM PLAN

PREPARED FOR ORTHO SAYBROOK, LLC
52 SPENCER PLAIN ROAD (CT ROUTE 166)
MAP 25 LOT 27
OLD SAYBROOK, CONNECTICUT

DATE: APRIL 4, 2024
SCALE: 1"=40'
DRAWN BY: RG
CHECKED BY: JW
DWG. NO.: GUS-1
SHEET NO.: 3 of 13
JOB. NO.: 2023-1030

GENERAL NOTES:

- THIS PLAN WAS COMPILED USING THE FOLLOWING REFERENCE MAP:
 - A CLASS A-2 SURVEY MAP ENTITLED "PROPERTY/TOPOGRAPHIC SURVEY, LAND OF LAND OF ORTHO SAYBROOK, LLC, TAX MAP 25 LOT 27, 52 SPENCER PLAIN ROAD OLD SAYBROOK, CONNECTICUT" SCALE: 1"=50', DATED: AUGUST 26, 2019 PREPARED BY ANNING SURVEY.
- THE APPLICANT IS:
 - ORTHO SAYBROOK, LLC
 - 430 SAYBROOK ROAD, SUITE 100
 - MIDDLETOWN, CT 06457
- THE SUBJECT PARCEL IS IDENTIFIED AS LOT 27 ON TAX ASSESSOR'S MAP 25. THE DEED REFERENCE OF THE PROPERTY IS VOLUME 643 PAGE 458. THE AREA OF THE PARCEL IS 289,459± S.F. OR 6.65 ACRES.
- REFER TO THE FOLLOWING DRAWINGS AND REPORTS FOR ADDITIONAL INFORMATION:
 - SP-1: SITE PLAN
 - LL-1: LANDSCAPE & LIGHTING PLAN
 - GUS-1: GRADING, UTILITIES AND SEPTIC SYSTEM PLAN
 - SES-1: SOIL EROSION & SEDIMENTATION CONTROL PLAN
 - SDC-1: SEPTIC DESIGN CRITERIA & SOIL TESTING DATA
 - CD-1: CONSTRUCTION DETAILS (SEPTIC)
 - CD-2: CONSTRUCTION DETAILS
 - CD-3: CONSTRUCTION DETAILS (WATER)
 - CD-4: CONSTRUCTION DETAILS (DRAINAGE)
 - CD-5: CONSTRUCTION DETAILS
 - ES-1: E&S CONTROL NARRATIVE AND DETAILS
 - ES-2: E&S CONTROL DETAILS
 - SSD-1: SOIL SAMPLE DATA
- REFER TO ARCHITECTURAL CONCEPT DRAWINGS ENTITLED "O&G LEASE BUILDING, OLD SAYBROOK MEDICAL, #52 SPENCER PLAIN RD., OLD SAYBROOK, CT", DATED: FEBRUARY 14, 2024, PREPARED BY: BORGHESE BUILDING & ENGINEERING CO., INC. FOR ADDITIONAL INFORMATION.
- REFER TO LANDSCAPE PLAN ENTITLED "O&G INDUSTRIES, 52 SPENCER PLAIN RD., OLD SAYBROOK, CT", SCALE 1"=30', DATED: APRIL 18, 2024, PREPARED BY: J.W. FLYNN ASSOC. LLC.
- REFER TO SITE LIGHTING PLAN ENTITLED "52 SPENCER PLAINS ROAD - SITE LIGHTING - OLD SAYBROOK - REVISION 3.AGI" SCALE: 1"=40', RECEIVED: APRIL 18, 2024, PREPARED BY: LITHONIA LIGHTING.



FOR REVIEW - NOT FOR CONSTRUCTION

Approved by the Old Saybrook Zoning Commission

Title _____ Signature _____ Date _____

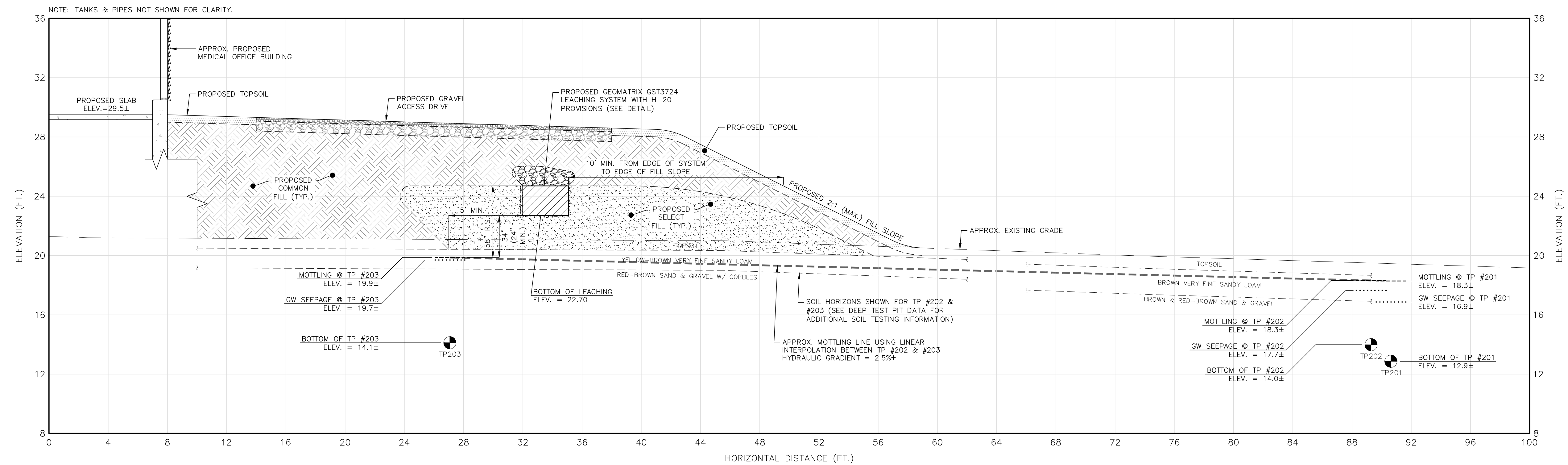
PLAN PREPARED BY:
 INDIGO LAND DESIGN, LLC
 JOSEPH WREN, P.E.
 CT REG. NO. 21090
 100 E. MAIN STREET, 2ND FLOOR
 OLD SAYBROOK, CT 06457
 PHONE: (860) 388-9343
 WEB: INDIGO-LAND.COM

THE EMBOSSED SEAL OF THE REGISTERED PROFESSIONAL ENGINEER MUST BE AFFIXED HERE FOR THIS MAP TO BE VALID

#	DATE	REVISIONS PER TOWN ENGINEER'S COMMENTS, MISC.	DESCRIPTION	BY
1	5/14/2024			

SOIL EROSION & SEDIMENTATION CONTROL PLAN
 PREPARED FOR ORTHO SAYBROOK, LLC
 52 SPENCER PLAIN ROAD (CT ROUTE 166)
 (MAP 25 LOT 27)
 OLD SAYBROOK, CONNECTICUT

DATE: APRIL 4, 2024
 SCALE: 1"=40'
 DRAWN BY: RG
 CHECKED BY: JW
 DWG. NO.: SES-1
 SHEET NO.: 4 of 13
 JOB. NO.: 2023-1030



PROPOSED LEACHING SYSTEM PROFILE - X-SECTION B-B
 HORIZ. SCALE = VERT. SCALE = 1"=4'

DEEP TEST PIT DATA

DATE: 3/4/2024
 EXCAVATED BY: DOWNIE'S SEPTIC & EXCAVATION
 WITNESSED BY: JOE WREN, P.E. (INDIGO)
 MELISSA HOWLEY (CRAHD)
 RECORDED BY: ROBERT RUSSO, C.P.S.S.

TP #201
 EXIST. GRADE ELEV. = 20.2±
 0-9" TOPSOIL, DARK BROWN FINE SANDY LOAM
 9"-38" SUBSOIL, YELLOW-BROWN FINE SANDY LOAM
 38"-95" BROWN SAND & GRAVEL W/ COBBLES, STONES & SILT
 MOTTLING & 27" (ELEV.=18.6±)
 GROUNDWATER SEEPAGE @ 30" (ELEV.=18.3±)
 NO LEDGE
 ROOTS TO 33"
 MOTTLING & 23" (ELEV.=18.3±)
 GROUNDWATER SEEPAGE @ 40" (ELEV.=16.9±)
 NO LEDGE
 ROOTS TO 29"

TP #202
 EXIST. GRADE ELEV. = 19.9±
 0-10" TOPSOIL, DARK BROWN FINE SANDY LOAM
 10"-31" SUBSOIL, BROWN VERY FINE SANDY LOAM
 31"-71" BROWN & RED-BROWN SAND & GRAVEL
 MOTTLING & 19" (ELEV.=18.3±)
 GROUNDWATER SEEPAGE @ 27" (ELEV.=17.7±)
 NO LEDGE
 ROOTS TO 21"

TP #203
 EXIST. GRADE ELEV. = 21.7±
 0-8" TOPSOIL, VERY DARK BROWN FINE SANDY LOAM
 8"-24" SUBSOIL, YELLOW-BROWN VERY FINE SANDY LOAM
 24"-91" RED-BROWN SAND & GRAVEL W/ COBBLES
 MOTTLING & 22" (ELEV.=19.9±)
 GROUNDWATER SEEPAGE @ 24" (ELEV.=19.7±)
 NO LEDGE
 ROOTS TO 22"

TP #204
 EXIST. GRADE ELEV. = 19.2±
 0-10" TOPSOIL, DARK BROWN VERY FINE SANDY LOAM
 10"-44" SUBSOIL, BROWN FINE SANDY LOAM
 44"-86" RED-BROWN SAND & GRAVEL W/ COBBLES
 MOTTLING & 23" (ELEV.=17.3±)
 GROUNDWATER SEEPAGE @ 52" (ELEV.=14.9±)
 NO LEDGE
 ROOTS TO 23"

TP #205
 EXIST. GRADE ELEV. = 20.8±
 0-9" TOPSOIL, DARK BROWN VERY FINE SANDY LOAM
 9"-38" SUBSOIL, YELLOW-BROWN FINE SANDY LOAM
 38"-95" BROWN SAND & GRAVEL W/ COBBLES, STONES & SILT
 MOTTLING & 27" (ELEV.=18.6±)
 GROUNDWATER SEEPAGE @ 30" (ELEV.=18.3±)
 NO LEDGE
 ROOTS TO 33"

TP #206
 EXIST. GRADE ELEV. = 26.8±
 0-12" TOPSOIL, BROWN VERY FINE SANDY LOAM
 12"-34" SUBSOIL, YELLOW-BROWN SANDY LOAM
 34"-96" BROWN SANDY LOAM W/ LITTLE GRAVEL, COBBLES & STONES
 MOTTLING & 34" (ELEV.=24.0±)
 GROUNDWATER SEEPAGE @ 40" (ELEV.=23.5±)
 NO LEDGE
 ROOTS TO 38"

TP #207
 EXIST. GRADE ELEV. = 25.7±
 0-8" TOPSOIL, VERY DARK BROWN FINE SANDY LOAM
 8"-26" SUBSOIL, YELLOW-BROWN FINE SANDY LOAM
 26"-96" DENSE BROWN SANDY LOAM W/ LITTLE GRAVEL, COBBLES & STONES
 MOTTLING & 24" (ELEV.=23.7±)
 GROUNDWATER SEEPAGE @ 27" (ELEV.=23.5±)
 NO LEDGE
 ROOTS TO 28"

TP #208
 EXIST. GRADE ELEV. = 25.5±
 0-10" TOPSOIL, VERY DARK BROWN FINE SANDY LOAM
 10"-18" SUBSOIL, YELLOW-BROWN FINE SANDY LOAM
 18"-95" BROWN SANDY LOAM W/ COBBLES & STONES
 MOTTLING & 18" (ELEV.=24.0±)
 GROUNDWATER SEEPAGE @ 67" (ELEV.=19.9±)
 NO LEDGE
 ROOTS TO 29"

PERCOLATION TEST DATA

DATE: 3/4/2024
 CONDUCTED BY: RAY MALINOWSKI (INDIGO)

PERC A
 DEPTH: 19"

TIME (MINUTES)	DEPTH (INCHES)	DROP (INCHES)	PERC RATE (MIN./INCH)
0	0	0	---
6	11 3/4	3 3/4	1.6
12	14 1/2	2 3/4	2.2
18	16 1/2	2	3.0
24	18	1 1/2	4.0

 (LESS THAN 3" WATER REMAINING IN HOLE)
 PERCOLATION RATE = 4.0 MIN./INCH

PERCOLATION TEST DATA

DATE: 3/4/2024
 CONDUCTED BY: RAY MALINOWSKI (INDIGO)

PERC B
 DEPTH: 22"

TIME (MINUTES)	DEPTH (INCHES)	DROP (INCHES)	PERC RATE (MIN./INCH)
0	0	0	---
6	10 1/2	##	##
12	11 1/4	3/4	8.0
18	11 3/4	1/2	12.0
24	12 1/4	1/2	12.0
30	12 3/4	3 3/4	8.0
36	13 1/4	1/2	12.0
42	14	3/4	8.0
48	14 3/8	3/8	16.0
54	14 3/4	3/8	16.0
60	15 1/8	3/8	16.0

 PERCOLATION RATE = 16.0 MIN./INCH

SANITARY SYSTEM DESIGN CRITERIA

DESIGN PERC RATE	BUILDING USE	REQUIRED LEACHING AREA	LEACHING SYSTEM TYPE	EFFECTIVE LEACHING AREA	LEACHING AREA PROVIDED	REQUIRED TANK CAPACITY	TANK CAPACITY PROVIDED
1.0-5.0 MIN./IN. (1)	22,381± S.F. OFFICE (2)	1,000 S.F. (3)(4)	150 L.F. OF GEOMATRIX GST3724 LEACHING SYSTEM W/ H-20 PROVISIONS	10.5 S.F./L.F.	1,575 S.F. (5)	1,500-GAL. (6)	2,000-GAL. (6)

- PERCOLATION TEST A IN THE LEACHING SYSTEM AREA WAS 4.0 MIN./IN. (SEE PERCOLATION TEST DATA ON THIS SHEET).
- PROPOSED 22,381± S.F. MEDICAL OFFICE BUILDING.
- DESIGN FLOW = 1,000 GPD (ASSUMED METERED WATER USAGE OF A SIMILAR FACILITY) x 1.5 SAFETY FACTOR = 1,500 GPD (NOTE: 24,000± S.F. LAKEBROOK MEDICAL OFFICE BUILDING AT 5 PEQUOT PARK ROAD, WESTBROOK, CT HAS AN AVERAGE DAILY FLOW OF APPROX. 600 GPD BASED ON WATER METER DATA)
- REQUIRED E.L.A. = 1,500 GPD (DESIGN FLOW) / 1.5 (APPLICATION RATE) = 1,000 S.F.
- E.L.A. PROVIDED = 10.5 S.F./L.F. x 150 L.F. = 1,575 S.F.
- REQUIRED SEPTIC TANK VOLUME = 1,500 GPD x 1 DAY = 1,500 GALLONS -- USE A SEPTIC TANK WITH A VOLUME OF 2,000-GALLONS

MLSS COMPUTATIONS

DESIGN PERC RATE	# OF BEDROOMS	RECEIVING SOIL DEPTH	HYDRAULIC GRADIENT	HYDRAULIC FACTOR (HF)	FLOW FACTOR (FF)	PERCOLATION FACTOR (PF)	MLSS REQUIRED (HFxFFxPF)	MLSS PROVIDED
UP TO 10.0 MIN./IN. (1)	22,381± S.F. OFFICE (2)	36.1-42.0 INCHES (3)	2.1-3.0% (4)	30	5.0 (5)(6)	1.0	150 FT.	150 FT.

- PERCOLATION TEST A IN THE LEACHING SYSTEM AREA WAS 4.0 MIN./IN. (SEE PERCOLATION TEST DATA ON THIS SHEET).
- PROPOSED 22,381± S.F. MEDICAL OFFICE BUILDING.
- RECEIVING SOIL DEPTH (IN SYSTEM AREA) = 10" (MIN. UNSATURATED NATURAL SOIL) 24" (MIN. SELECT FILL) + 24" (HEIGHT OF GEOMATRIX GST3724 LEACHING SYSTEM) = 58" RECEIVING SOIL DEPTH (DOWNGRADIENT) = 22" (MOTTLING DEPTH @ TP #203) + 19" (MOTTLING DEPTH @ TP #202) / 2 = 20.5±" RECEIVING SOIL DEPTH (AVERAGE) = 39.3±" -- USE A RECEIVING SOIL DEPTH OF 36.1-42.0"
- HYDRAULIC GRADIENT = [ELEV. 19.9± (MOTTLING @ TP #203) - ELEV. 18.3± (MOTTLING @ TP #202)] / 62± L.F. = 2.6%± -- USE HYDRAULIC GRADIENT OF 2.1-3.0%
- DESIGN FLOW = 1,000 GPD (ASSUMED METERED WATER USAGE OF A SIMILAR FACILITY) x 1.5 SAFETY FACTOR = 1,500 GPD (NOTE: 24,000± S.F. LAKEBROOK MEDICAL OFFICE BUILDING AT 5 PEQUOT PARK ROAD, WESTBROOK, CT HAS AN AVERAGE DAILY FLOW OF APPROX. 600 GPD BASED ON WATER METER DATA)
- FLOW FACTOR = 1,500 GPD (DESIGN FLOW) / 300 (APPLICATION RATE) = 5.0

SANITARY SYSTEM PIPE INVERT TABLE

STRUCTURE	PIPE @ BUILDING (A)	SEPTIC TANK (B)	DISTRIBUTION BOX (C)	LEACHING SYSTEM (D)
INV. IN (FT.)	---	25.75 (1)	25.30	24.70
INV. OUT (FT.)	26.00 (1)	25.50	25.20 (2)	---

- PROPOSED 11.0± L.F. OF 4" SCH. 40 PVC ASTM D1785 BUILDING SEWER PIPE. PERCENT SLOPE = (26.00' - 25.75') x 100% / 11.0'± = 2.27%± > 2.08% (MIN.).
- INITIAL 10 FT. (MIN.) OF ALL DISTRIBUTION PIPES EXITING THE DISTRIBUTION BOX SHALL BE SET LEVEL FOR EVEN DISTRIBUTION.
- BOTTOM OF LEACHING SYSTEM SHALL BE SET LEVEL AND AT ELEVATION 22.70'.
- FOR ALL PIPE, A MIN. OF 12" OF COVER SHALL BE PROVIDED.
- SEPTIC SYSTEM LABELS SHOWN FOR CLARITY (REFER TO SEPTIC SYSTEM KEY ON SHEET 3 OF 13).

FOR REVIEW - NOT FOR CONSTRUCTION

Approved by the Old Saybrook Zoning Commission

Title _____ Signature _____ Date _____

PLAN PREPARED BY:
 INDIGO LAND DESIGN, LLC
 JOSEPH WREN, P.E.
 CT REG. NO. 21090
 10 FENNER STREET, 2ND FLOOR
 OLD SAYBROOK, CT 06475
 PHONE: (860) 388-9343
 WEB: INDIGO-LAND.COM

THE EMBOSSED SEAL OF REGISTERED PROFESSIONAL ENGINEER JOSEPH WREN, P.E. IS AFFIXED HERE FOR THIS MAP TO BE VALID

NO.	DATE	REVISIONS PER TOWN ENGINEER'S COMMENTS, WISC.	BY
1	5/14/2024		RG

SEPTIC DESIGN CRITERIA & SOIL TESTING DATA
 PREPARED FOR ORTHO SAYBROOK, LLC
 52 SPENCER PLAIN ROAD (CT ROUTE 166)
 (MAP 25 LOT 27)
 OLD SAYBROOK, CONNECTICUT

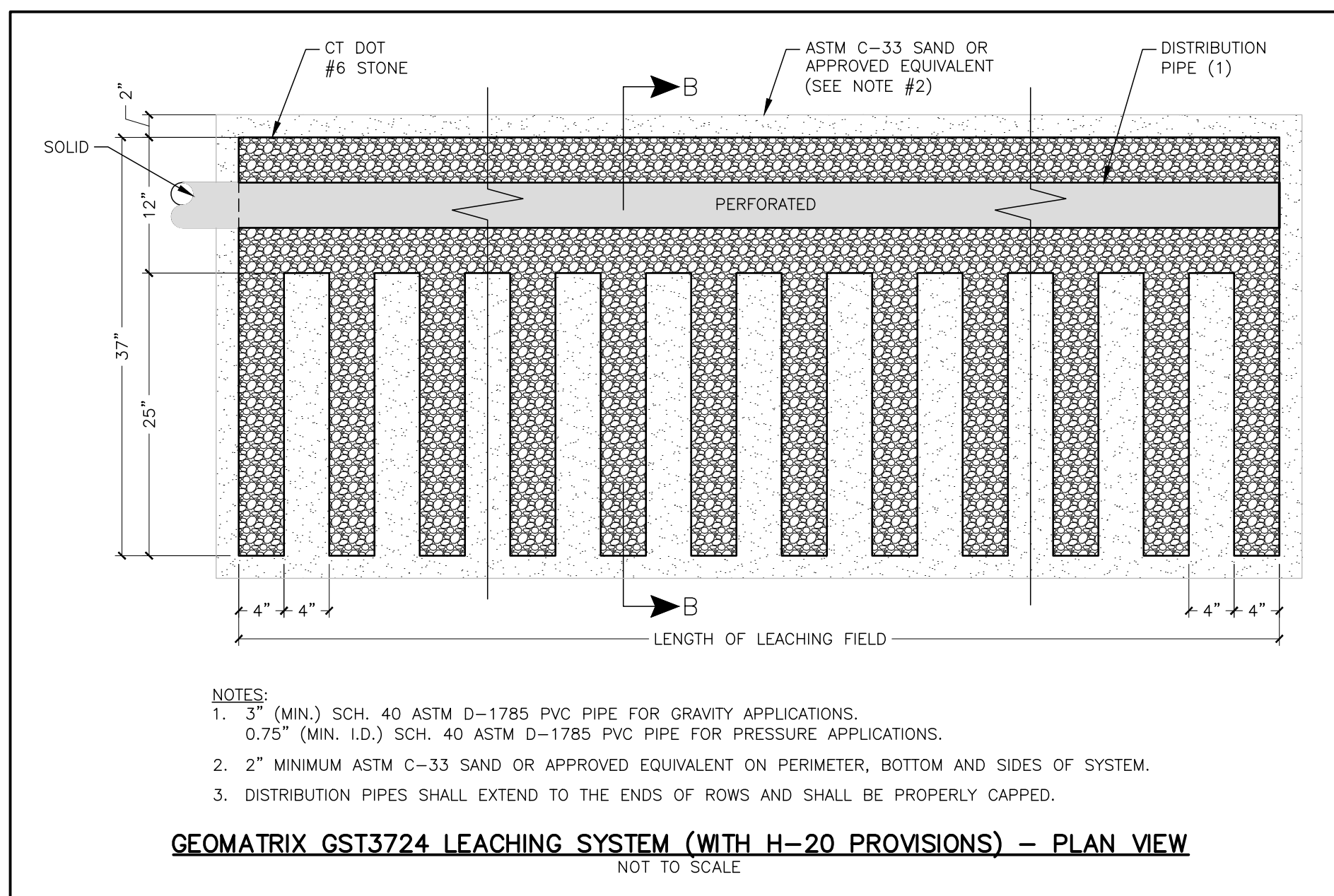
DATE: APRIL 4, 2024
 SCALE: AS NOTED
 DRAWN BY: RG
 CHECKED BY: JW
 DWG. NO.: SDC-1
 SHEET NO.: 5 of 13
 JOB NO.: 2023-1030

GENERAL NOTES (SEPTIC SYSTEM):

1. THE APPLICANT IS PROPOSING TO CONSTRUCT A 23,820± S.F. 1-STORY MEDICAL OFFICE BUILDING WITH ASSOCIATED PARKING AND ACCESS DRIVE, INSTALL A 100% CONNECTICUT PUBLIC HEALTH CODE-COMPLIANT SEPTIC SYSTEM, STORMWATER MANAGEMENT AREA, AND OTHER ASSOCIATED IMPROVEMENTS.
2. THIS PROPERTY IS SERVED BY PUBLIC WATER AND A SUBSURFACE SEWAGE DISPOSAL SYSTEM. THERE ARE NO KNOWN WELLS OR ANY OTHER KNOWN DESIGN CONFLICTS WITHIN 75 FEET OF THE PROPOSED SEPTIC SYSTEM.
3. THE USE OF A GARBAGE DISPOSAL IS NOT RECOMMENDED. IF A GARBAGE DISPOSAL OR A TUB OVER 100 GALLONS IS INSTALLED, THE PROPOSED SEPTIC TANK SIZE SHALL BE INCREASED IN CONFORMANCE WITH THE PUBLIC HEALTH CODE. ANY WATER SOFTENER SHALL NOT DISCHARGE TO THE SEPTIC SYSTEM.
4. THE PROPOSED BUILDING WILL BE CONSTRUCTED ON SLAB AND WILL NOT HAVE FOOTING DRAINS. THERE ARE NO KNOWN DOWNGRADE SEPTIC SYSTEM COMPONENTS WITHIN 25 FEET OF ANY UPGRADE GROUNDWATER DRAINS OR ANY UPGRADE SEPTIC SYSTEM COMPONENTS WITHIN 50 FEET OF ANY DOWNGRADE GROUNDWATER DRAINS.
5. ALL UTILITIES SHALL BE INSTALLED IN CONFORMANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE TOWN OF OLD SAYBROOK AND THE CUSTODIAL UTILITY COMPANIES. ALL UTILITY TRENCHES SHALL BE NO LESS THAN 5 FEET FROM THE SEPTIC SYSTEMS AND NOT BACKFILLED WITH FREE DRAINING MATERIAL. ALL WATER LINES SHALL BE A MINIMUM OF 10 FEET FROM ANY PART OF THE SEPTIC SYSTEMS.

GENERAL CONSTRUCTION NOTES (SEPTIC SYSTEM):

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT CONNECTICUT PUBLIC HEALTH CODE, AS AMENDED.
2. A LICENSED SURVEYOR SHALL FIELD STAKE THE LOCATION OF THE PROPOSED SEPTIC SYSTEM PRIOR TO CONSTRUCTION AND SET A STABLE SITE BENCHMARK ON NAVD-88 DATUM (SAME AS SURVEY MAP).
3. NO WORK SHALL COMMENCE IN THE SYSTEM AREA UNTIL A SEPTIC PERMIT HAS BEEN TAKEN OUT BY THE LICENSED INSTALLER.
4. THE LICENSED INSTALLER SHALL PERFORM SITE PREPARATION AND SHOULD CONTACT "CALL BEFORE YOU DIG" AT 1-800-922-4455 TO VERIFY ALL UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION.
5. THE LICENSED INSTALLER SHALL BE ON SITE DURING SYSTEM CONSTRUCTION. THE SYSTEM SHALL BE INSTALLED IN CONFORMANCE TO THESE PLANS. ANY REQUESTED MODIFICATIONS SHALL BE DISCUSSED WITH THE ENGINEER PRIOR TO CONSTRUCTION. ALL MODIFICATIONS MUST BE APPROVED BY THE ENGINEER AND TOWN SANITARIAN PRIOR TO CONSTRUCTION.
6. A MINIMUM OF 24 HOURS NOTICE SHALL BE GIVEN BY THE LICENSED INSTALLER TO THE ENGINEER AND TOWN SANITARIAN BEFORE ANY STRIPPING IS DONE FOR THE SYSTEM. STRIP INSPECTIONS WILL BE PERFORMED BY THE ENGINEER AND SANITARIAN.
7. THE LICENSED INSTALLER SHALL BE RESPONSIBLE FOR PREPARING THE LEACHING AREA IN A WORKMANLIKE MANNER. ALL NECESSARY STEPS SHALL BE TAKEN TO PROTECT THE UNDERLYING NATURALLY OCCURRING SOILS FROM OVER COMPACTION AND SILTATION ONCE EXPOSED.
8. THE INSTALLER SHALL NOTIFY THE ENGINEER AND SANITARIAN AT LEAST 24 HOURS IN ADVANCE OF BEING READY FOR A FINAL INSPECTION. THE ENGINEER AND SANITARIAN SHALL CONDUCT THE FINAL INSPECTION TOGETHER WITH THE LICENSED INSTALLER. NO DEVIATION FROM THE PLAN APPROVED BY THE SANITARIAN SHALL BE ALLOWED WITHOUT PRIOR APPROVAL FROM THE SANITARIAN. THE SYSTEM SHALL NOT BE BACKFILLED WITHOUT THE APPROVAL OF THE SANITARIAN.
9. A LICENSED ENGINEER OR SURVEYOR SHALL PREPARE A SEPTIC SYSTEM AS-BUILT DRAWING CERTIFYING THE SYSTEM IS CODE-COMPLIANT. THIS PLAN SHALL INCLUDE ALL ESSENTIAL ACCESS POINTS INCLUDING TANK MANHOLES, DISTRIBUTION BOX AND LEACHING SYSTEM ENDS. THE AS-BUILT PLAN SHALL BE COMPLETED IN A TIMELY MANNER.
10. THE LEACHING SYSTEM SHALL BE PROPERLY COVERED BY THE LICENSED SYSTEM INSTALLER WITHIN TWO (2) WORKING DAYS FOLLOWING THE LOCAL HEALTH DEPARTMENT'S FINAL INSPECTION AND APPROVAL.
11. NO HEAVY EQUIPMENT SHALL BE DRIVEN OVER THE INSTALLED LEACHING SYSTEM AREA.
12. THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER IF HE WISHES TO CHANGE THE LOCATION OR ELEVATION OF ANY PROPOSED SEPTIC SYSTEM COMPONENT PRIOR TO CONSTRUCTION.
13. THE LICENSED INSTALLER IS RESPONSIBLE TO INSTALL THE SUBSURFACE SEWAGE DISPOSAL SYSTEM IN ACCORDANCE WITH THE APPROVED PLAN.
14. THE SEPTIC TANK AND DISTRIBUTION BOX SHALL HAVE H-20 RISERS TO FINISHED GRADE. THE INSPECTION PORTS SHALL HAVE H-20 VALVE COVER ASSEMBLIES TO FINISHED GRADE. THE CONTRACTOR SHALL VERIFY SEPTIC TANK IS WATERTIGHT PRIOR TO INSTALLATION.
15. THE PROPOSED LEACHING SYSTEM, GEOMATRIX GST63724 (WITH H-20 PROVISIONS), SHALL BE INSTALLED IN CONFORMANCE WITH ALL MANUFACTURER'S SPECIFICATIONS. A GEOMATRIX SYSTEMS REPRESENTATIVE WILL DELIVER THE GEOMATRIX GST FORMS TO THE SITE AND WILL BE ON SITE DURING INSTALLATION OF THE SYSTEM TO ENSURE PROPER INSTALLATION. THE INSTALLER SHALL OBTAIN, REVIEW AND STRICTLY ADHERE TO THE ALL INSTALLATION INSTRUCTIONS AND MATERIAL SPECIFICATIONS. MORE INFORMATION CAN BE OBTAINED FROM THE MANUFACTURER, GEOMATRIX SYSTEMS, LLC - 114 MILL ROCK ROAD EAST, OLD SAYBROOK, CT - 860-510-0730 OR AT WWW.GEOMATRIXSYSTEMS.COM.
16. A TWO-PART CONCRETE SEPTIC TANK SHALL BE USED BUT MUST BE MADE 100% WATERTIGHT BY GASKETING AND MORTARING ALL JOINTS. IF A TWO-PART TANK IS USED, IT SHALL BE FILLED WITH WATER ABOVE THE JOINT AND INSPECTED BY THE ENGINEER AND/OR THE TOWN SANITARIAN WITHIN 24 HOURS. THE CONTRACTOR SHALL MONITOR THE WATER LEVEL IN THE TANK DURING THIS PERIOD AND SHALL PERMANENTLY REPAIR ANY LEAKS TO THE SATISFACTION OF THE ENGINEER AND THE TOWN SANITARIAN.
17. THE LICENSED INSTALLER SHALL CONFIRM THAT NO LEDGE IS PRESENT WITHIN 48 INCHES BELOW THE BOTTOM OF THE PROPOSED LEACHING SYSTEM.
18. THE CONTRACTOR SHALL GRADE THE AREA IN THE VICINITY OF THE LEACHING FIELD IN SUCH A MANNER THAT ALL SURFACE RUNOFF IS SUFFICIENTLY DIRECTED AWAY FROM THE LEACHING FIELD AREA AND NOT RESULT IN PONDING ON THE SUBJECT PROPERTY OR ANY ADJACENT PROPERTY OR ROADWAY.
19. THE LICENSED INSTALLER SHALL INCLUDE ALL ADEQUATE PROVISIONS FOR FREEZE PROTECTION FOR ALL PIPING AND JUNCTIONS.
20. LICENSED INSTALLER SHALL PROVIDE SIEVE ANALYSES FOR C-33 SAND AND SELECT FILL PRIOR TO CONSTRUCTION.
21. THE CONTRACTOR SHALL FULLY COORDINATE WITH GEOMATRIX SYSTEMS, LLC (GEOMATRIX) AND SHALL ABIDE BY ALL SPECIFICATIONS AND INSTRUCTIONS FOR INSTALLATION OF THE GEOMATRIX GST6212 LEACHING SYSTEM. IT IS STRONGLY RECOMMENDED, ALTHOUGH NOT REQUIRED BY THE PUBLIC HEALTH CODE, TO INSTALL A SOILAIR SYSTEM ON THE PROPOSED LEACHING SYSTEM. AT A MINIMUM, SOIL AIR PIPING SHALL BE INSTALLED TO FACILITATE POTENTIAL FUTURE SOIL AIR BLOWER CONNECTIONS. IF SOIL AIR SYSTEM IS NOT INSTALLED, GEOMATRIX WILL REQUIRE OWNER TO SIGN A DISCLAIMER AGREEMENT.



- NOTES:**
1. 3" (MIN.) SCH. 40 ASTM D-1785 PVC PIPE FOR GRAVITY APPLICATIONS. 0.75" (MIN. I.D.) SCH. 40 ASTM D-1785 PVC PIPE FOR PRESSURE APPLICATIONS.
 2. 2" MINIMUM ASTM C-33 SAND OR APPROVED EQUIVALENT ON PERIMETER, BOTTOM AND SIDES OF SYSTEM.
 3. DISTRIBUTION PIPES SHALL EXTEND TO THE ENDS OF ROWS AND SHALL BE PROPERLY CAPPED.

GEOMATRIX GST3724 LEACHING SYSTEM (WITH H-20 PROVISIONS) - PLAN VIEW
NOT TO SCALE

FILL AND GRADING NOTES (SEPTIC SYSTEM):

1. REMOVE ALL TOPSOIL AND/OR FILL WITHIN THE SYSTEM AREA AND SCARIFY THE SURFACE IN THE PROPOSED LEACHING SYSTEM AREA PRIOR TO PLACING ANY SELECT FILL MATERIAL. AVOID COMPACTING THE SCARIFIED AREA. FILL SHALL NOT BE PLACED OVER SNOW OR FROZEN GROUND. DISCONTINUE FILL PLACEMENT DURING HEAVY RAINFALL AND A MINIMUM OF 24 HOURS THEREAFTER. THE SELECT FILL MATERIAL SHALL BE PLACED IN 12" LIFTS AND COMPACTED TO 90% DENSITY.
2. SELECT FILL MATERIAL SHALL CONSIST OF CLEAN SAND AND GRAVEL, FREE FROM ORGANIC MATTER AND FOREIGN SUBSTANCES. THE SELECT FILL MATERIAL SHALL MEET THE REQUIREMENTS OF THE PUBLIC HEALTH CODE PROVIDED IN THE TABLE ON THIS SHEET.
3. THE LICENSED INSTALLER SHALL BE RESPONSIBLE FOR PREPARING THE LEACHING AREA UTILIZING THE SELECT FILL MATERIAL.
4. ALL NECESSARY STEPS SHALL BE TAKEN TO PROTECT THE UNDERLYING NATURALLY OCCURRING SOILS FROM OVER COMPACTION AND SILTATION ONCE EXPOSED.
5. THE CONTRACTOR SHALL PROVIDE GRADATION SPECIFICATIONS OF THE SELECT FILL MATERIAL TO BE USED FOR THE PROPOSED SEPTIC SYSTEM TO THE DESIGN ENGINEER AND TOWN SANITARIAN PRIOR TO ORDERING AND INSTALLATION.

SELECT FILL GRADATION TABLE

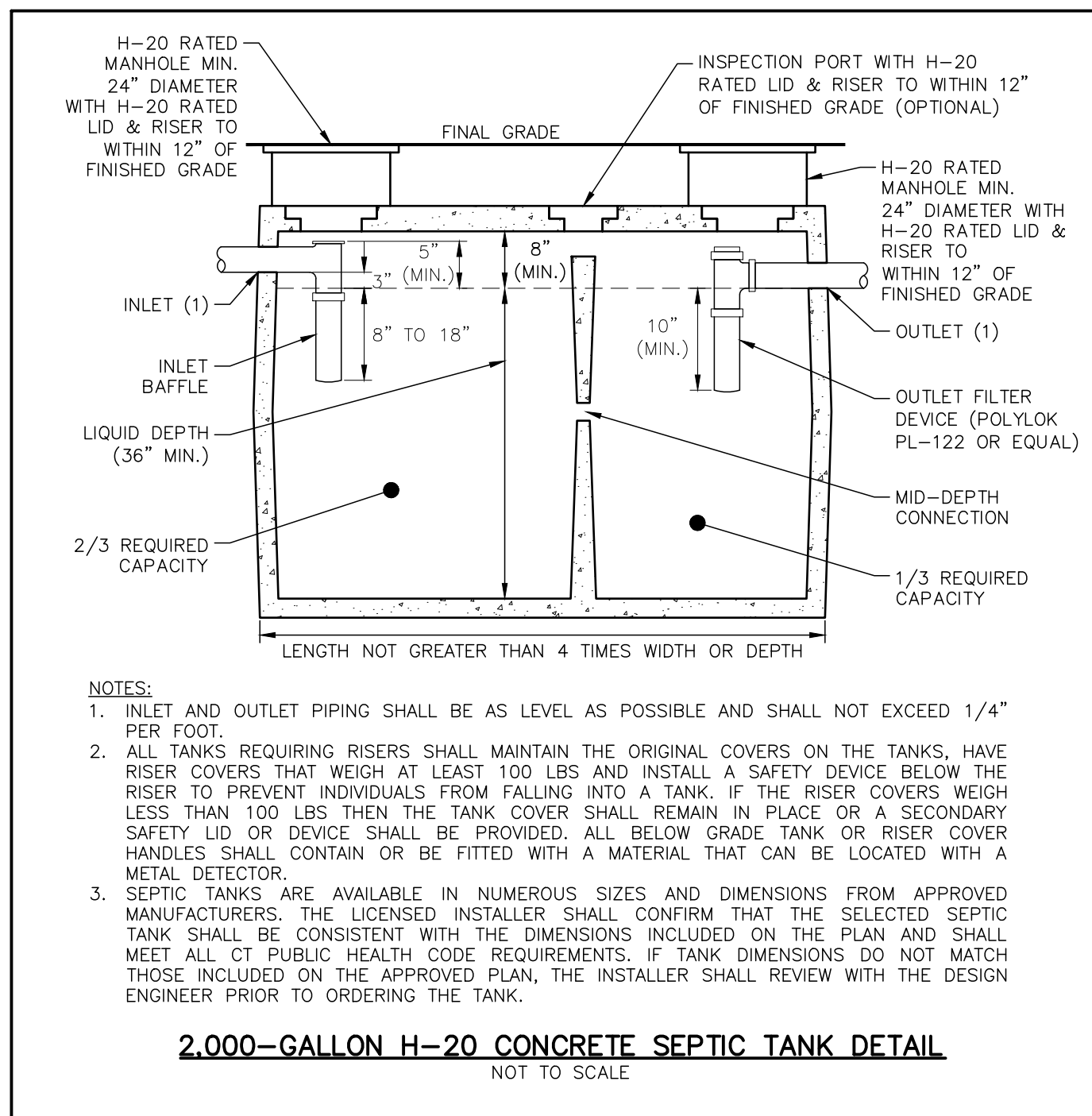
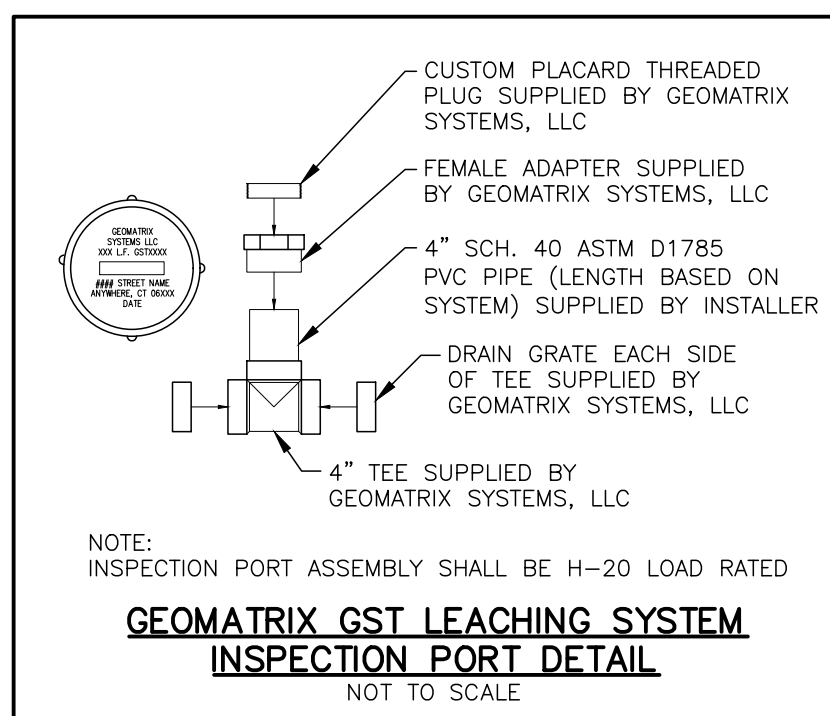
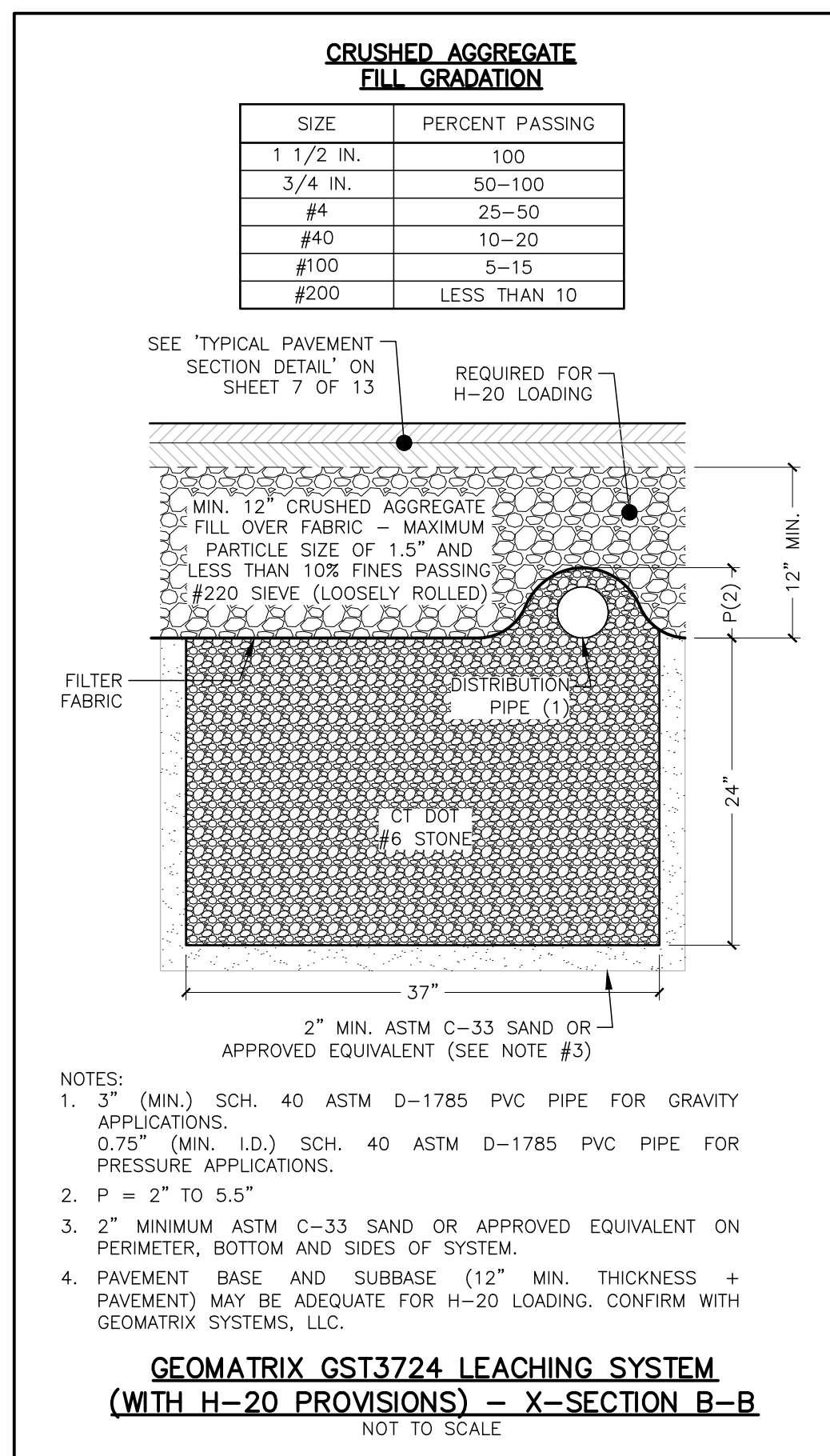
SIEVE SIZE	PERCENT PASSING	
	WET SIEVE	DRY SIEVE
#4	100	100
#10	70-100	70-100
#40	10-50*	10-75
#100	0-20	0-5
#200	0-5	0-2.5

* PERCENT PASSING THE #40 SIEVE CAN BE INCREASED TO NO GREATER THAN 75% IF THE PERCENT PASSING THE #100 SIEVE DOES NOT EXCEED 10% AND THE #200 SIEVE DOES NOT EXCEED 5%.

** A SIEVE ANALYSIS FOR THE SELECT FILL MATERIAL SHALL BE PROVIDED TO THE DESIGN ENGINEER. ONLY THE DESIGN ENGINEER MAY APPROVE SELECT FILL MATERIAL NOT IN COMPLIANCE WITH THE GRADATION TABLE IF THE MATERIAL PASSING THE #200 SIEVE DOES NOT EXCEED 6% BASED ON WET SIEVE.

GEOMATRIX GST3724 LEACHING SYSTEM (WITH H-20 PROVISIONS) - X-SECTION B-B
NOT TO SCALE

- NOTES:**
1. 3" (MIN.) SCH. 40 ASTM D-1785 PVC PIPE FOR GRAVITY APPLICATIONS. 0.75" (MIN. I.D.) SCH. 40 ASTM D-1785 PVC PIPE FOR PRESSURE APPLICATIONS.
 2. P = 2" TO 5.5"
 3. 2" MINIMUM ASTM C-33 SAND OR APPROVED EQUIVALENT ON PERIMETER, BOTTOM AND SIDES OF SYSTEM.
 4. PAVEMENT BASE AND SUBBASE (12" MIN. THICKNESS + PAVEMENT) MAY BE ADEQUATE FOR H-20 LOADING. CONFIRM WITH GEOMATRIX SYSTEMS, LLC.



- NOTES:**
1. INLET AND OUTLET PIPING SHALL BE AS LEVEL AS POSSIBLE AND SHALL NOT EXCEED 1/4" PER FOOT.
 2. ALL TANKS REQUIRING RISERS SHALL MAINTAIN THE ORIGINAL COVERS ON THE TANKS. HAVE RISER COVERS THAT WEIGH AT LEAST 100 LBS AND INSTALL A SAFETY DEVICE BELOW THE RISER TO PREVENT INDIVIDUALS FROM FALLING INTO A TANK. IF THE RISER COVERS WEIGH LESS THAN 100 LBS THEN THE TANK COVER SHALL REMAIN IN PLACE OR A SECONDARY SAFETY LID OR DEVICE SHALL BE PROVIDED. ALL BELOW GRADE TANK OR RISER COVER HANDLES SHALL CONTAIN OR BE FITTED WITH A MATERIAL THAT CAN BE LOCATED WITH A METAL DETECTOR.
 3. SEPTIC TANKS ARE AVAILABLE IN NUMEROUS SIZES AND DIMENSIONS FROM APPROVED MANUFACTURERS. THE LICENSED INSTALLER SHALL CONFIRM THAT THE SELECTED SEPTIC TANK SHALL BE CONSISTENT WITH THE DIMENSIONS INCLUDED ON THE PLAN AND SHALL MEET ALL CT PUBLIC HEALTH CODE REQUIREMENTS. IF TANK DIMENSIONS DO NOT MATCH THOSE INCLUDED ON THE APPROVED PLAN, THE INSTALLER SHALL REVIEW WITH THE DESIGN ENGINEER PRIOR TO ORDERING THE TANK.

2,000-GALLON H-20 CONCRETE SEPTIC TANK DETAIL
NOT TO SCALE

PLAN PREPARED BY:
INDIGO LAND DESIGN, LLC
JOSEPH WREN, P.E.
CT REG. NO. 21090
10 E. MAIN STREET, 2ND FLOOR
OLD SAYBROOK, CT 06475
PHONE: (860) 388-9343
FAX: (860) 388-9343
WEB: INDIGO-LAND.COM

THE EMBOSSED SEAL OF THE REGISTERED PROFESSIONAL ENGINEER MUST BE AFFIXED HERE FOR THIS MAP TO BE VALID

#	DATE	DESCRIPTION
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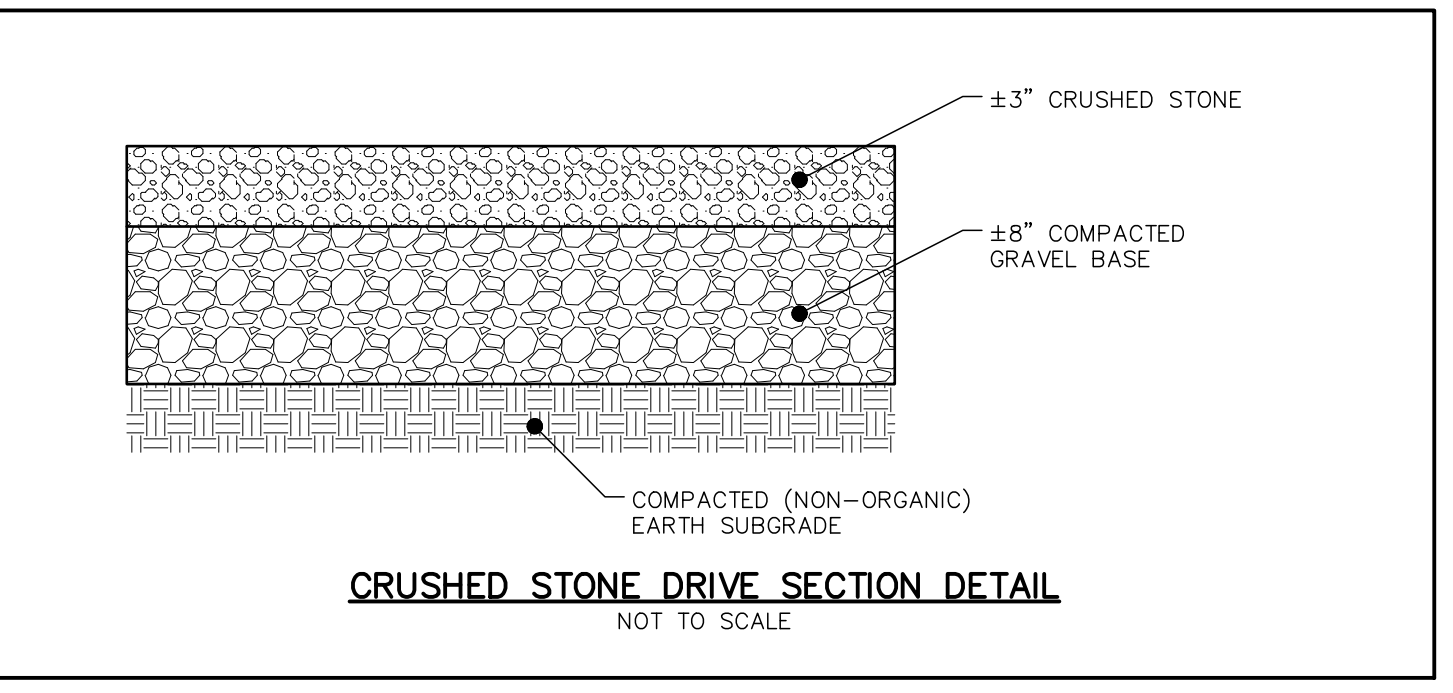
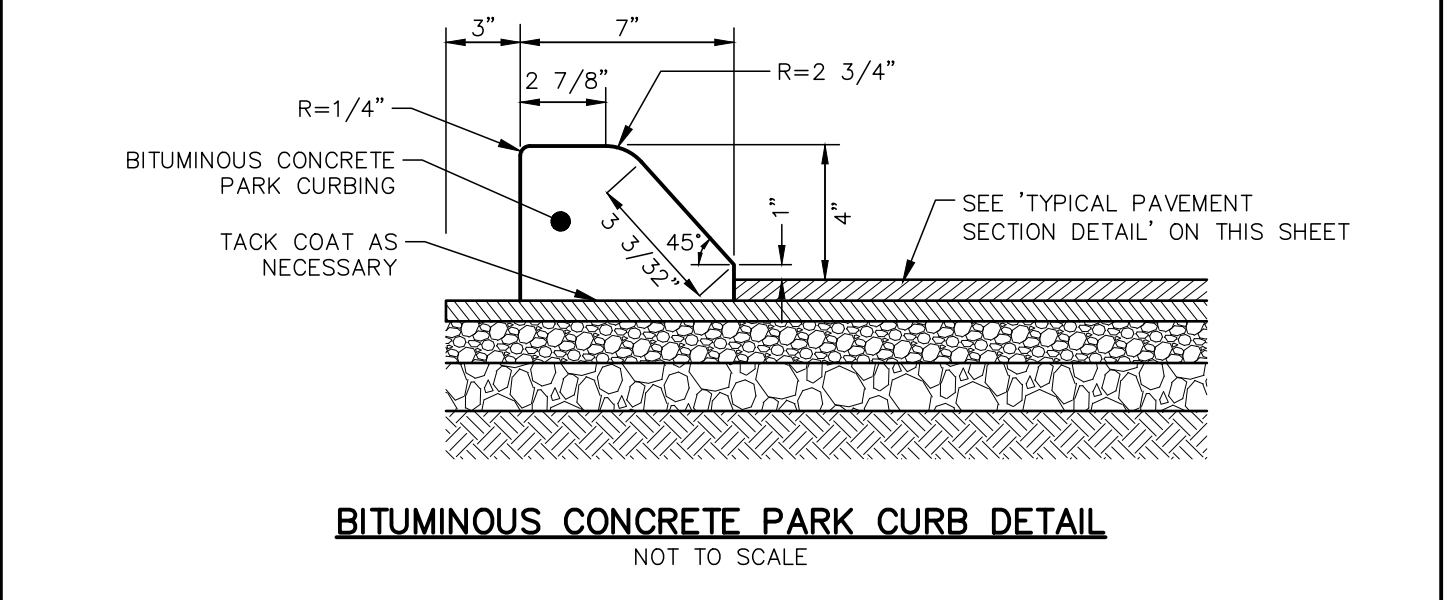
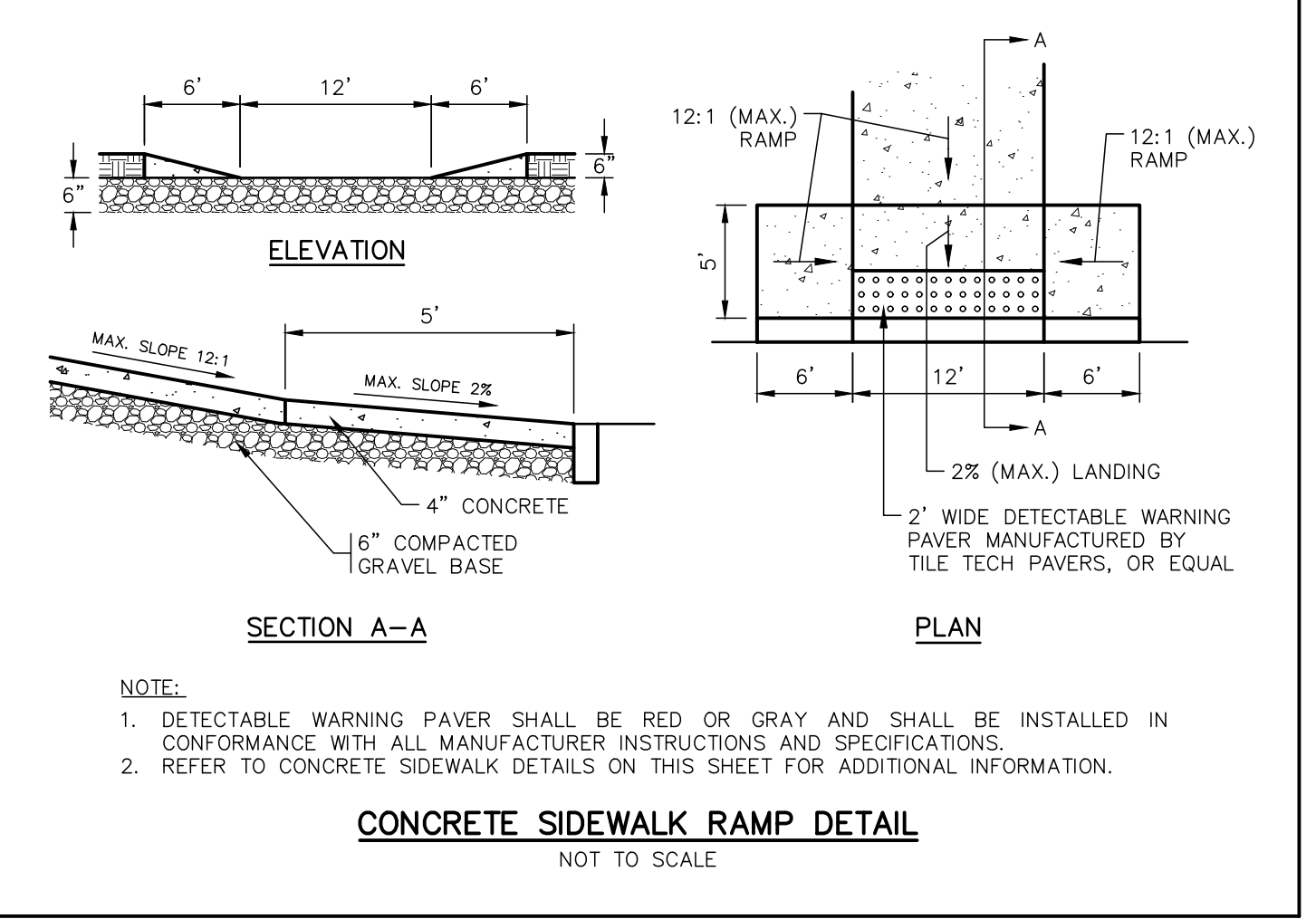
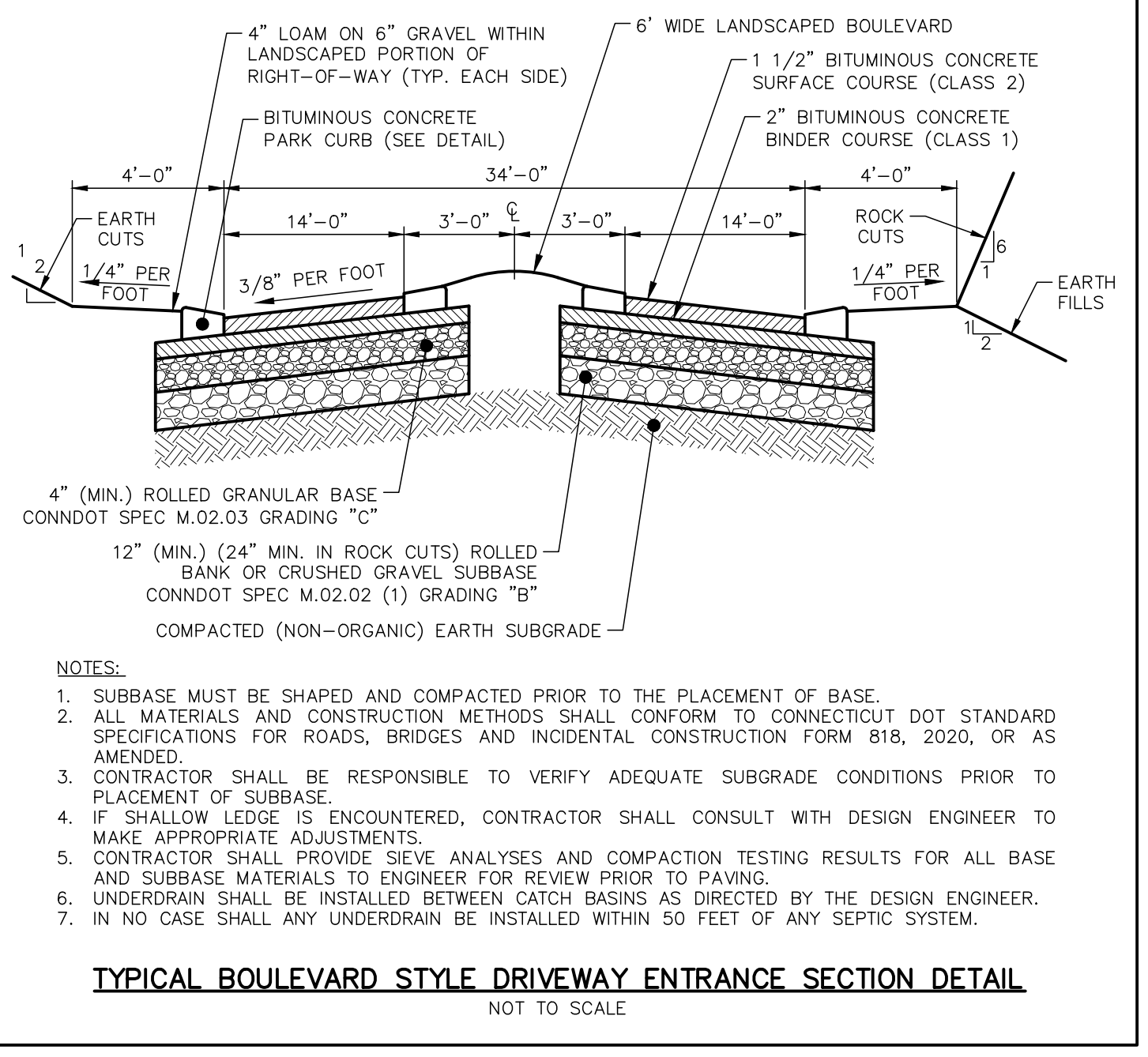
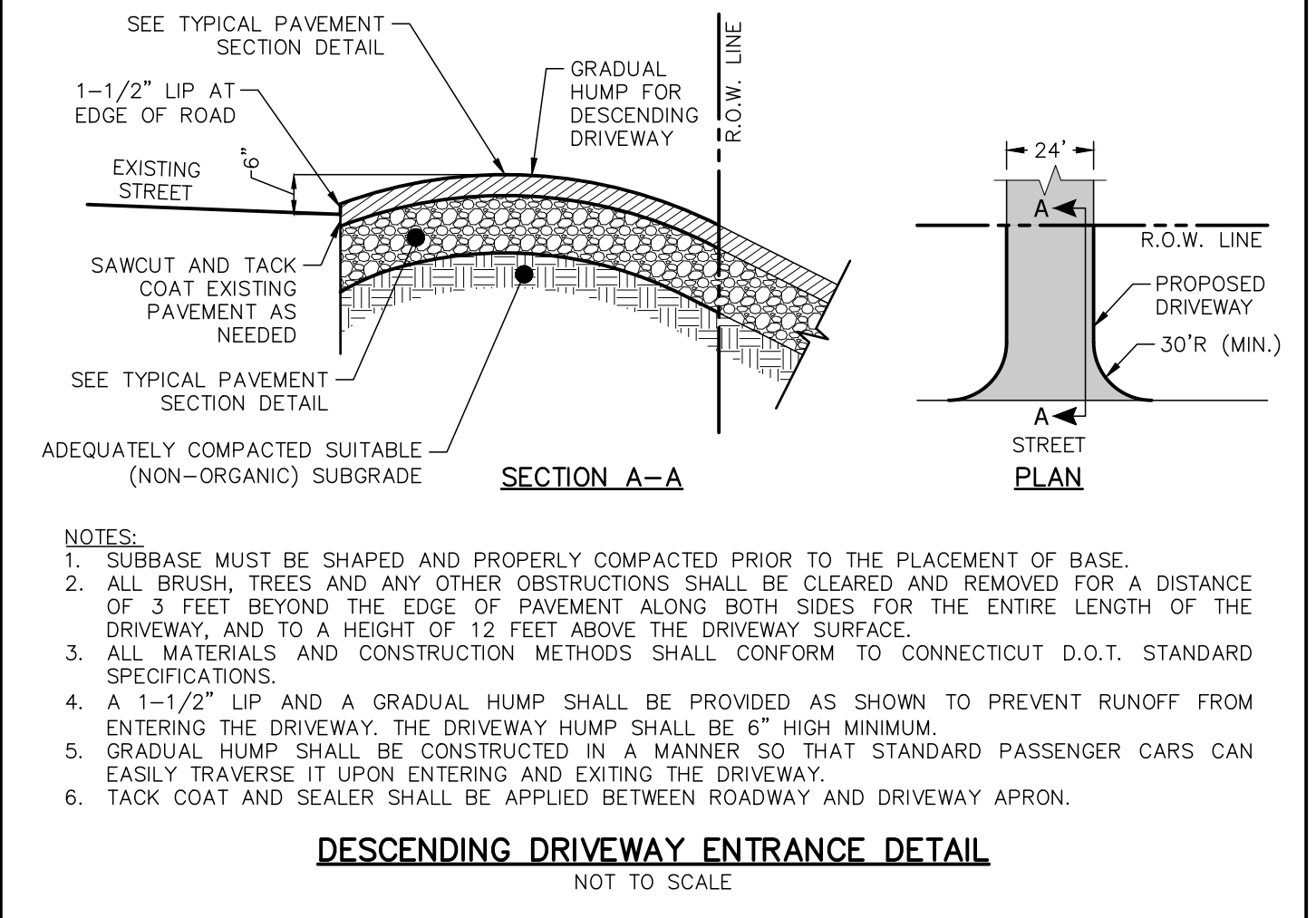
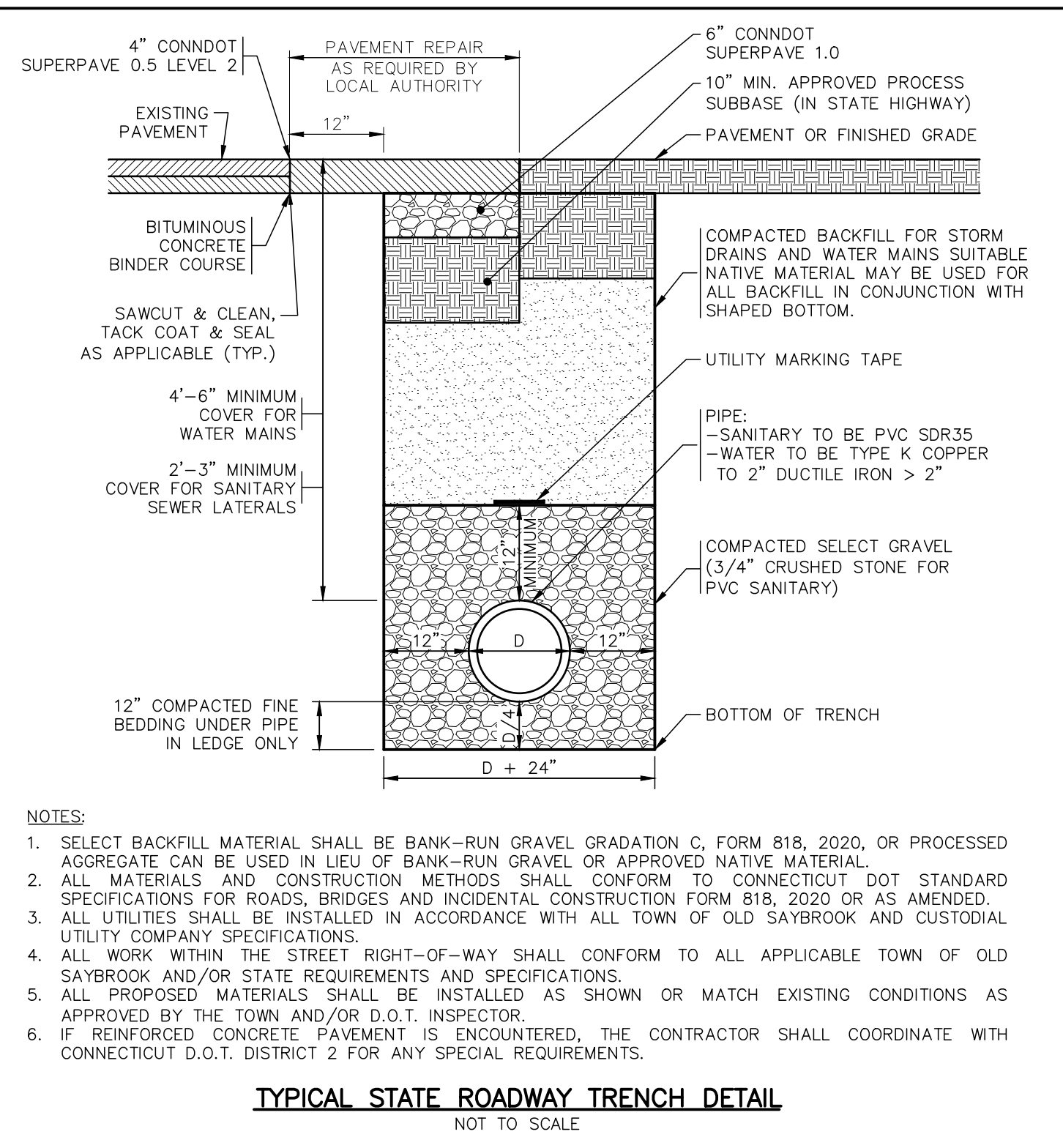
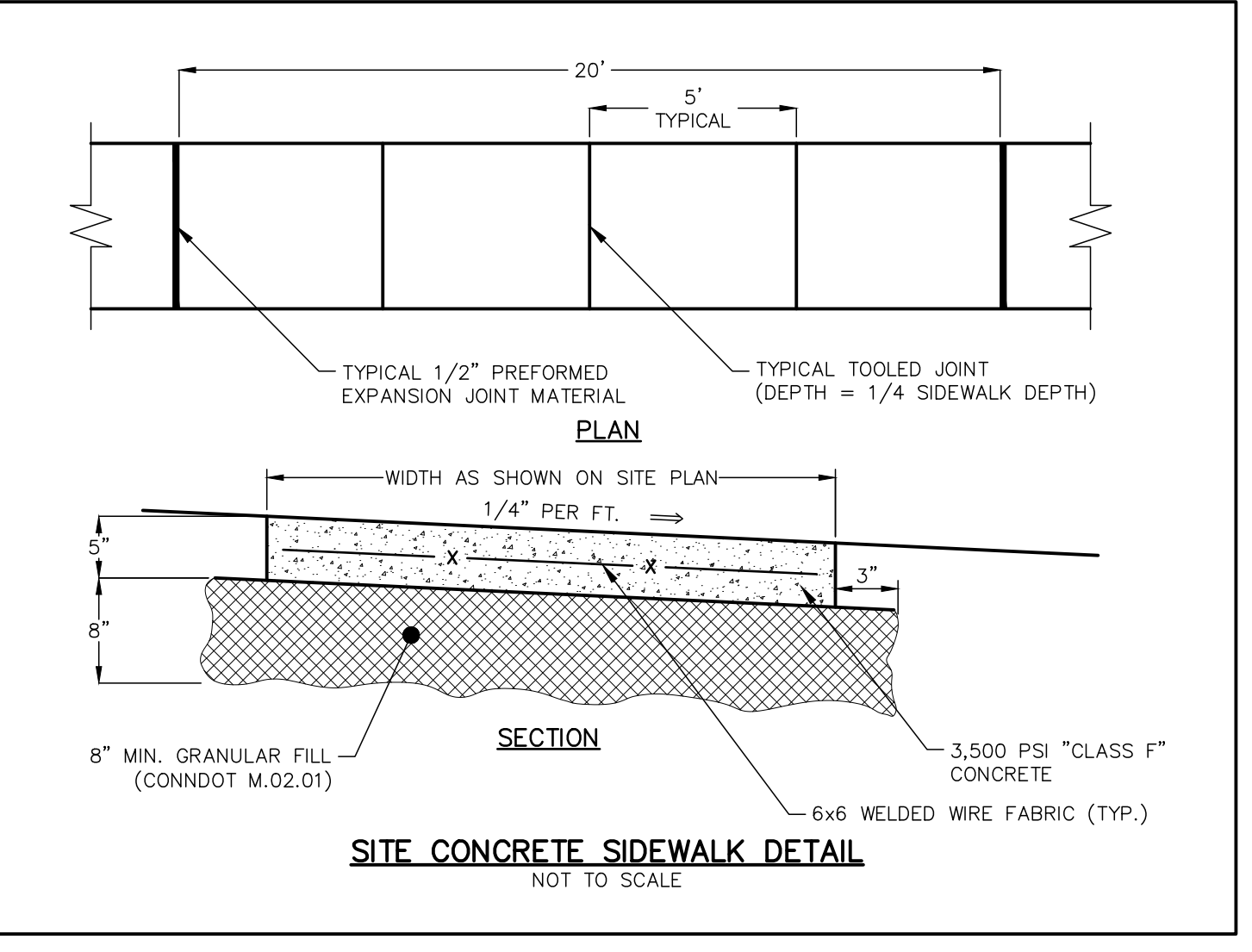
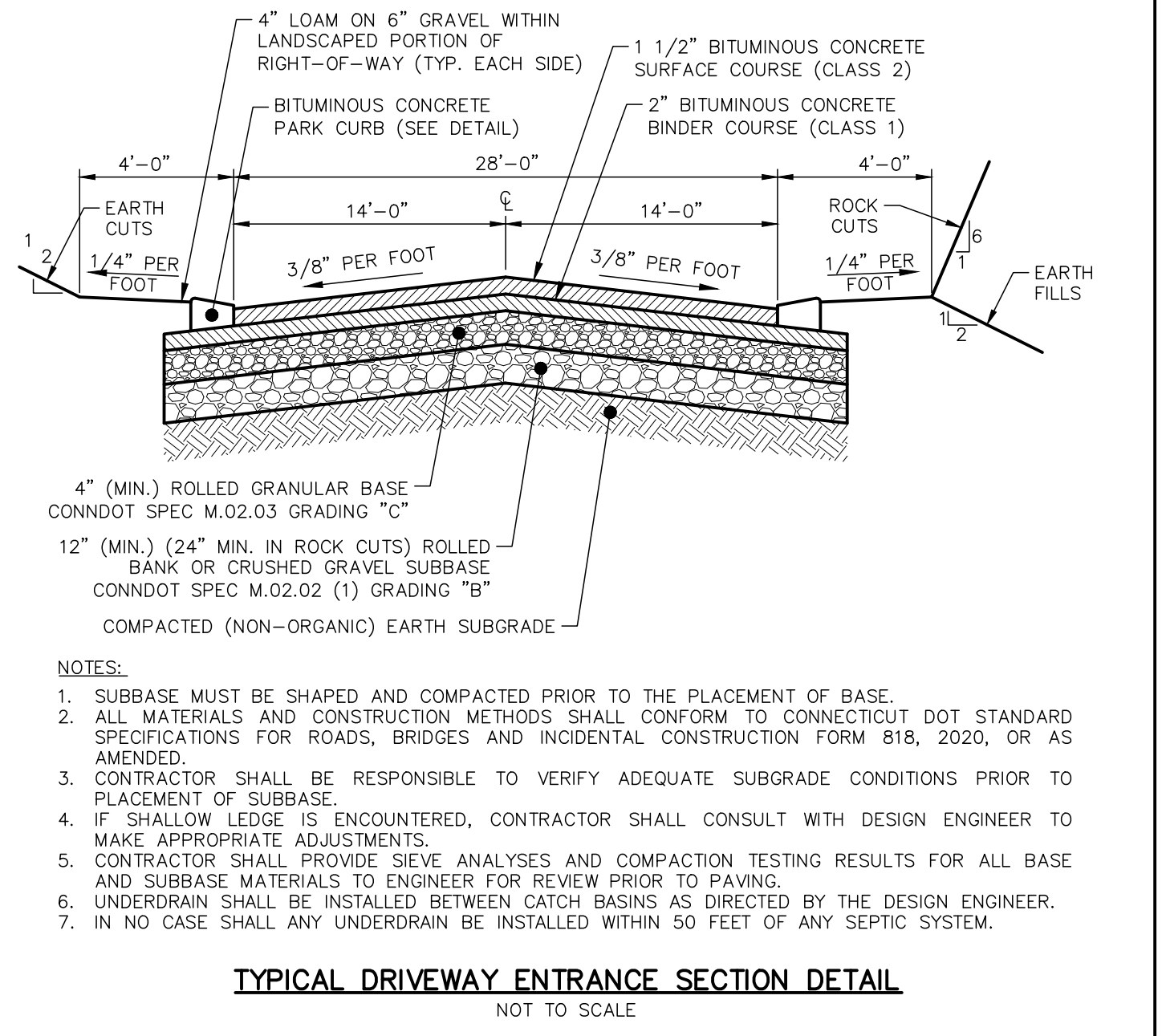
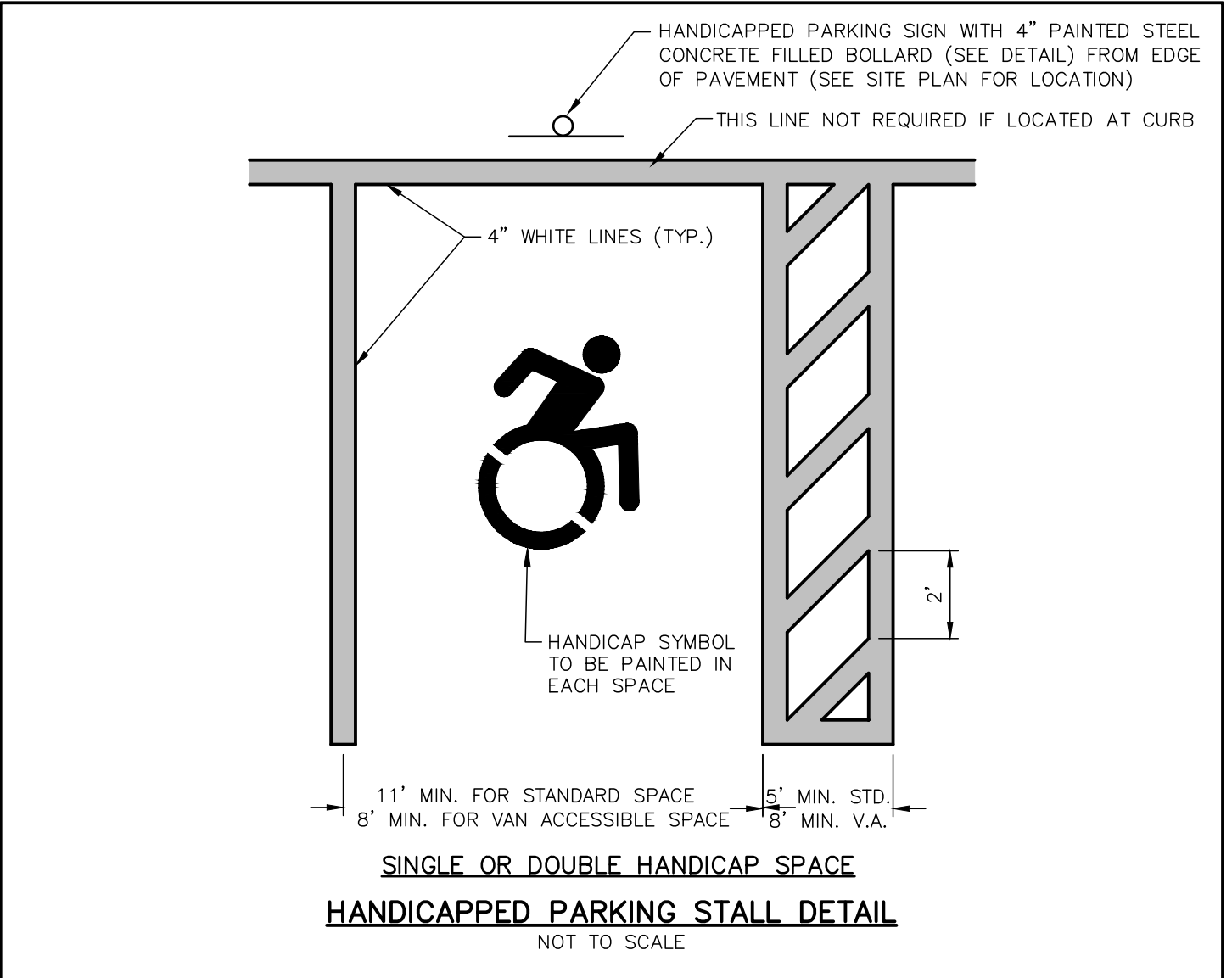
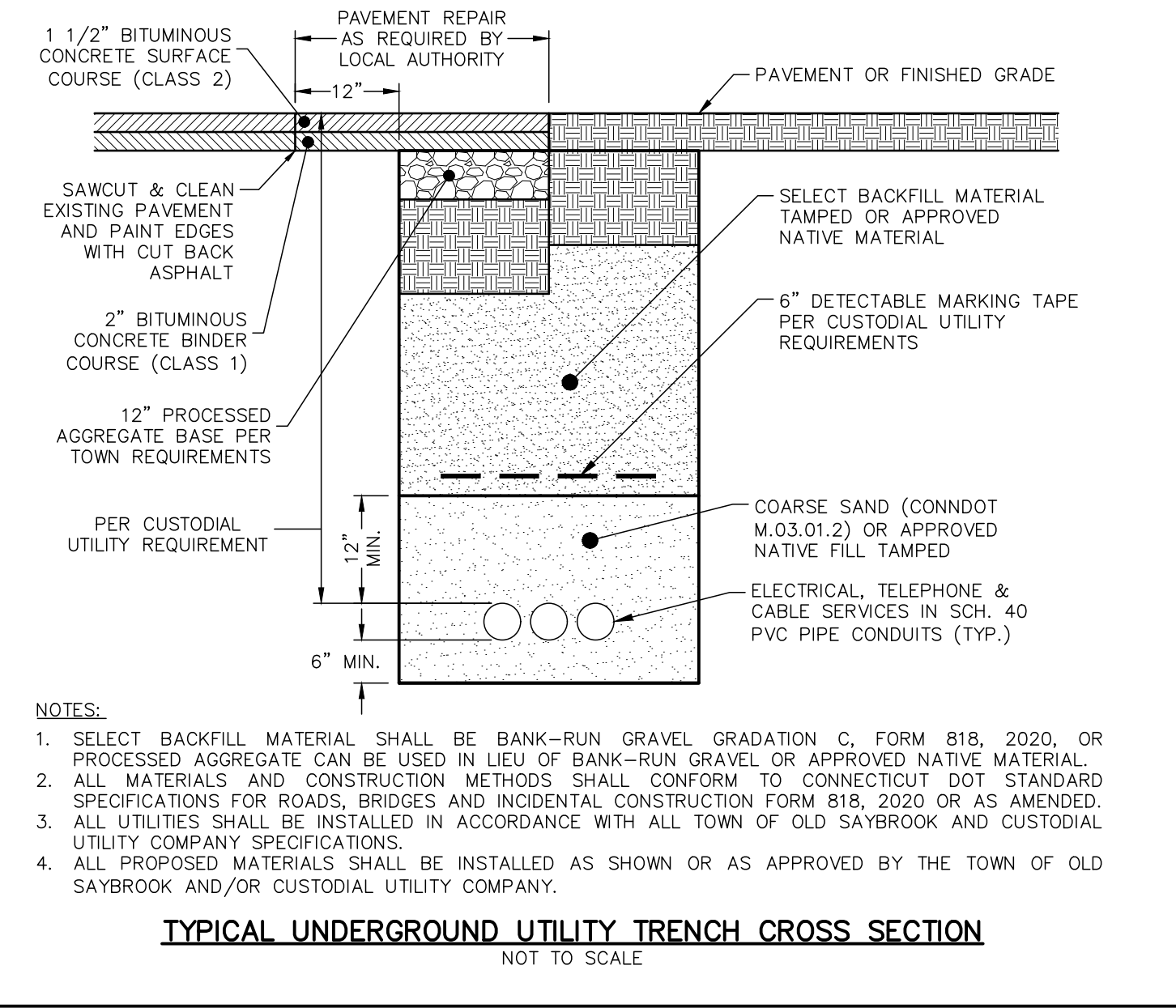
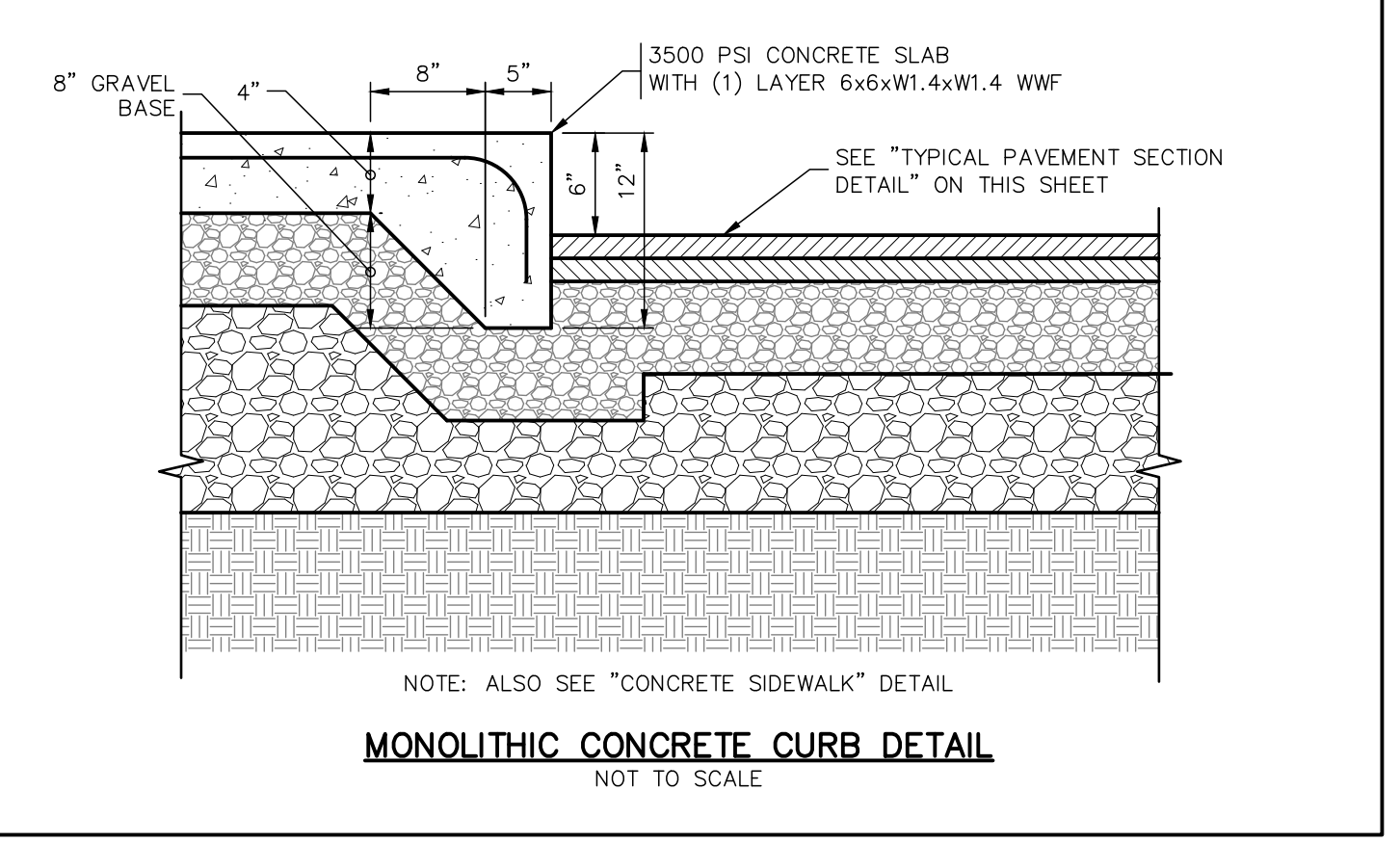
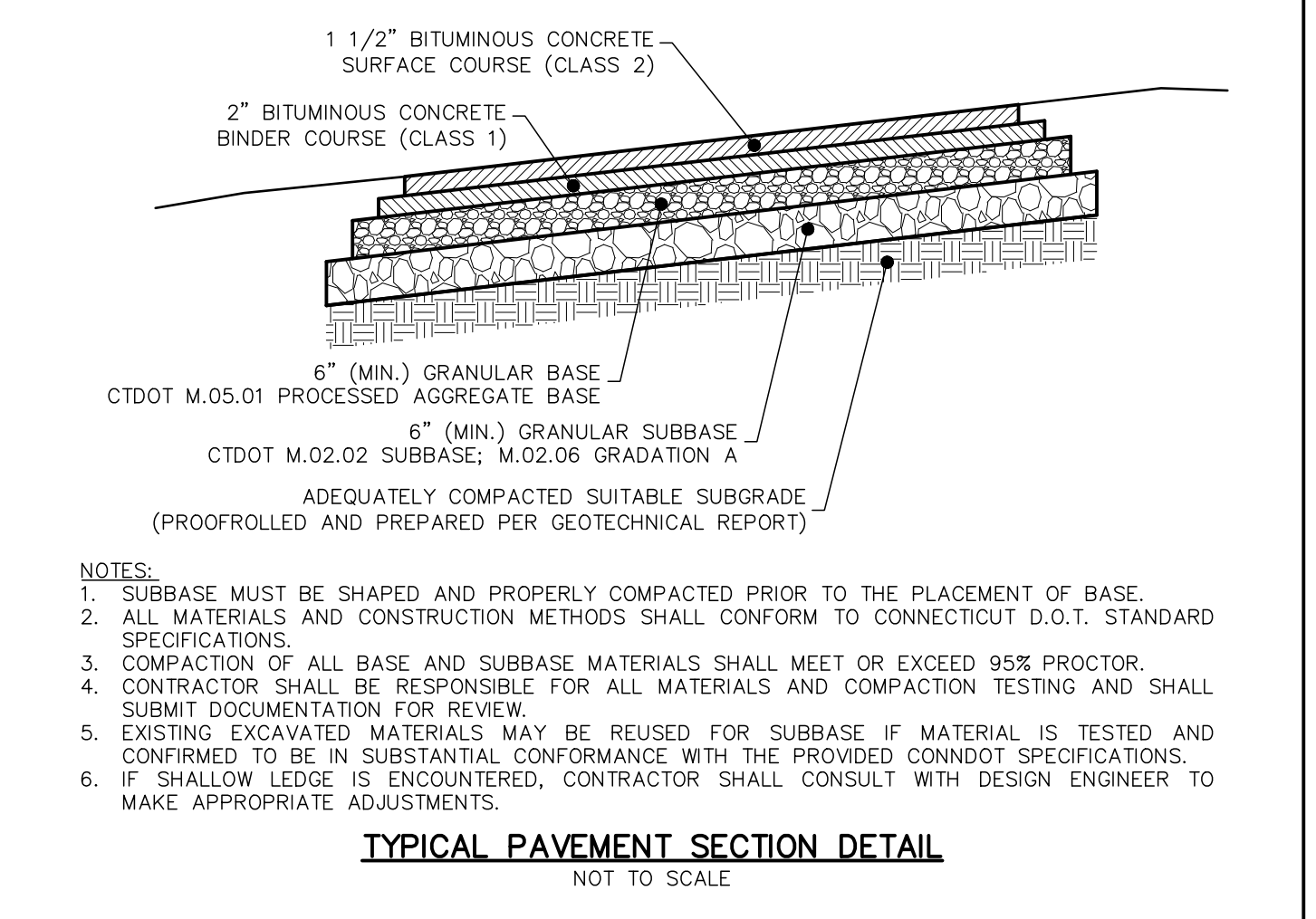
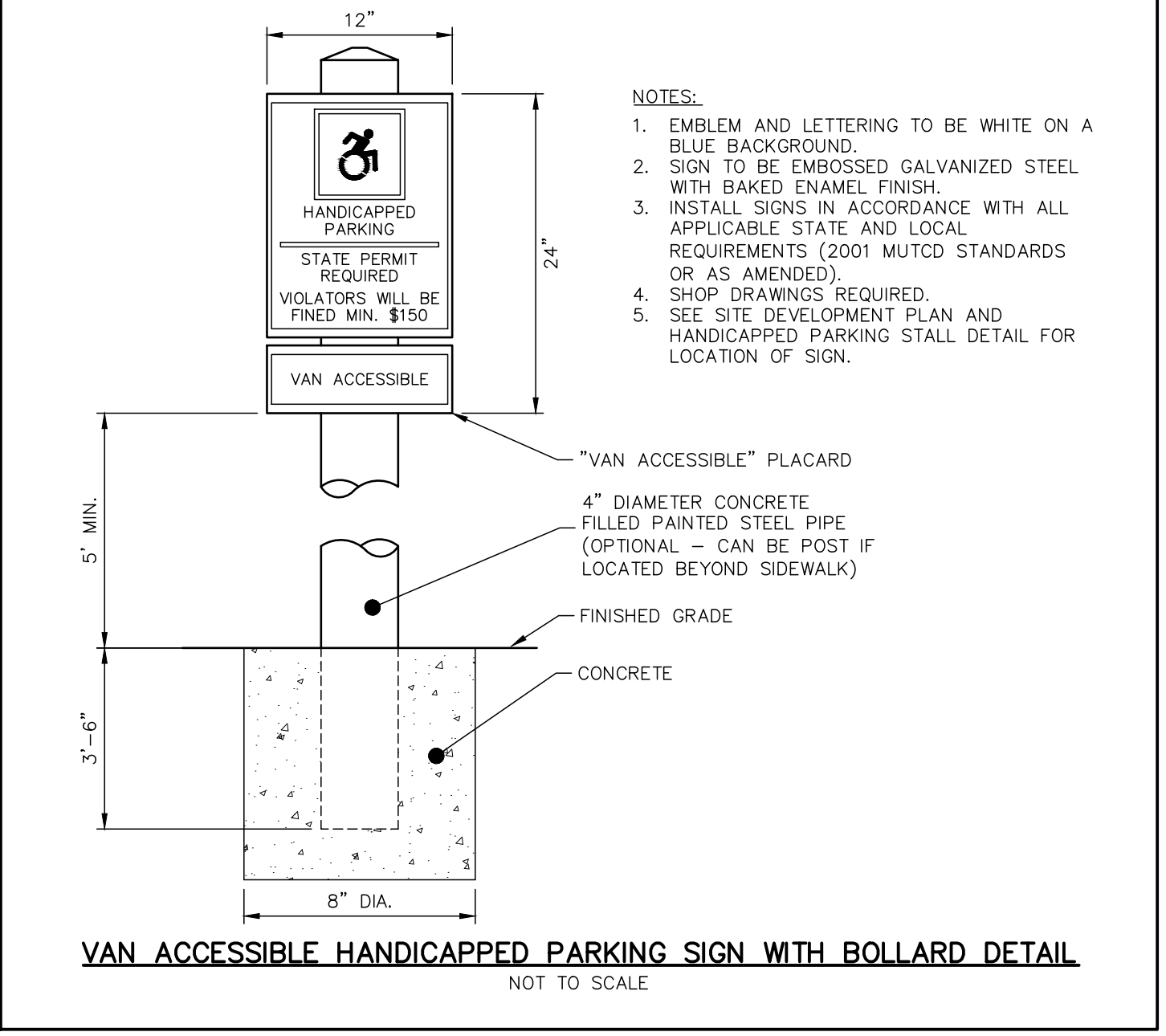
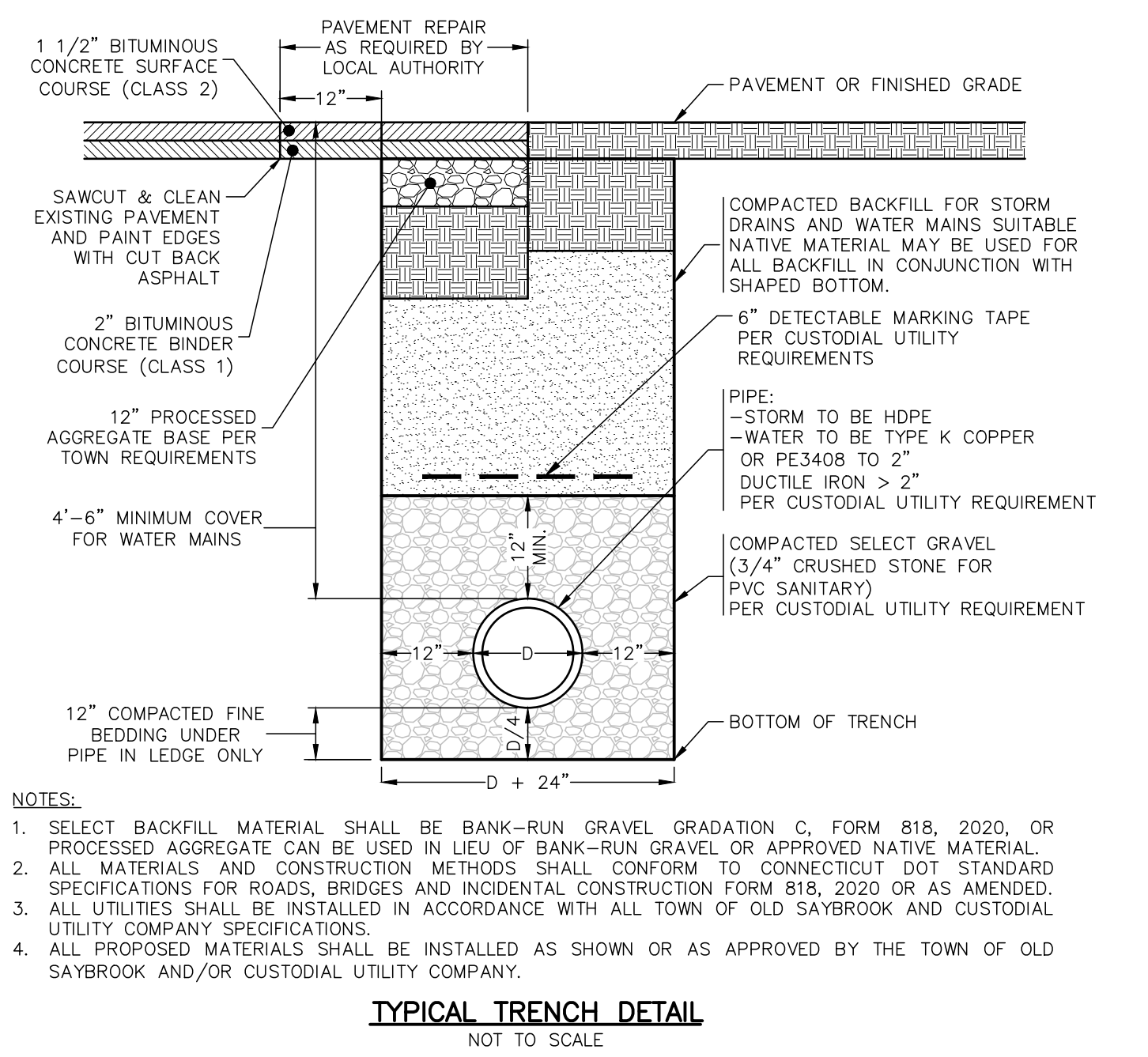
CONSTRUCTION DETAILS (SEPTIC)
PREPARED FOR ORKTHO SAYBROOK, LLC
52 SPENCER PLAIN ROAD (CT ROUTE 166)
(MAP 25 LOT 27)
OLD SAYBROOK, CONNECTICUT

DATE: APRIL 4, 2024
SCALE: NOT TO SCALE
DRAWN BY: RG
CHECKED BY: JW
DWG. NO.: CD-1
SHEET NO.: 6 of 13
JOB NO.: 2023-1030

FOR REVIEW - NOT FOR CONSTRUCTION

Approved by the Old Saybrook Zoning Commission

Title _____ Signature _____ Date _____



FOR REVIEW - NOT FOR CONSTRUCTION

Approved by the Old Saybrook Zoning Commission

Title _____ Signature _____ Date _____

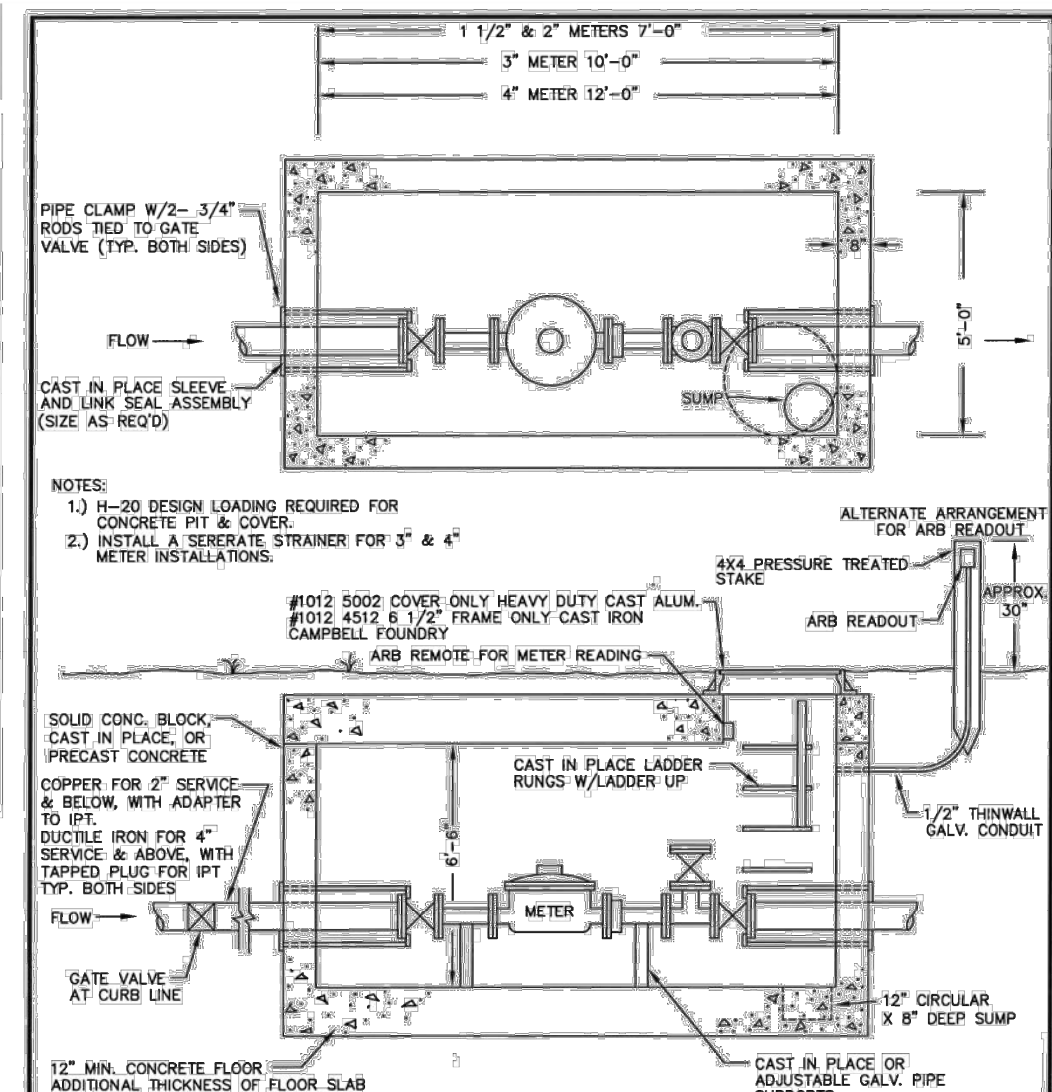
PLAN PREPARED BY:
INDIGO LAND DESIGN, LLC
JOSEPH WREN, P.E.
CT REG. NO. 21090
40 E. SAYBROOK STREET, 2ND FLOOR
OLD SAYBROOK, CT 06457
PHONE: (860) 388-9343
WEB: INDIGO-LAND.COM

THE EMBOSSED SEAL OF THE TOWN OF OLD SAYBROOK, CONNECTICUT, SHALL BE AFFIXED HERE FOR THIS MAP TO BE VALID

NO.	DATE	REVISIONS PER TOWN ENGINEER'S COMMENTS, MISC.	BY
1	5/14/2024		RG

CONSTRUCTION DETAILS
PREPARED FOR ORTHO SAYBROOK, LLC
52 SPENCER PLAIN ROAD (CT ROUTE 166)
(MAP 25 LOT 27)
OLD SAYBROOK, CONNECTICUT

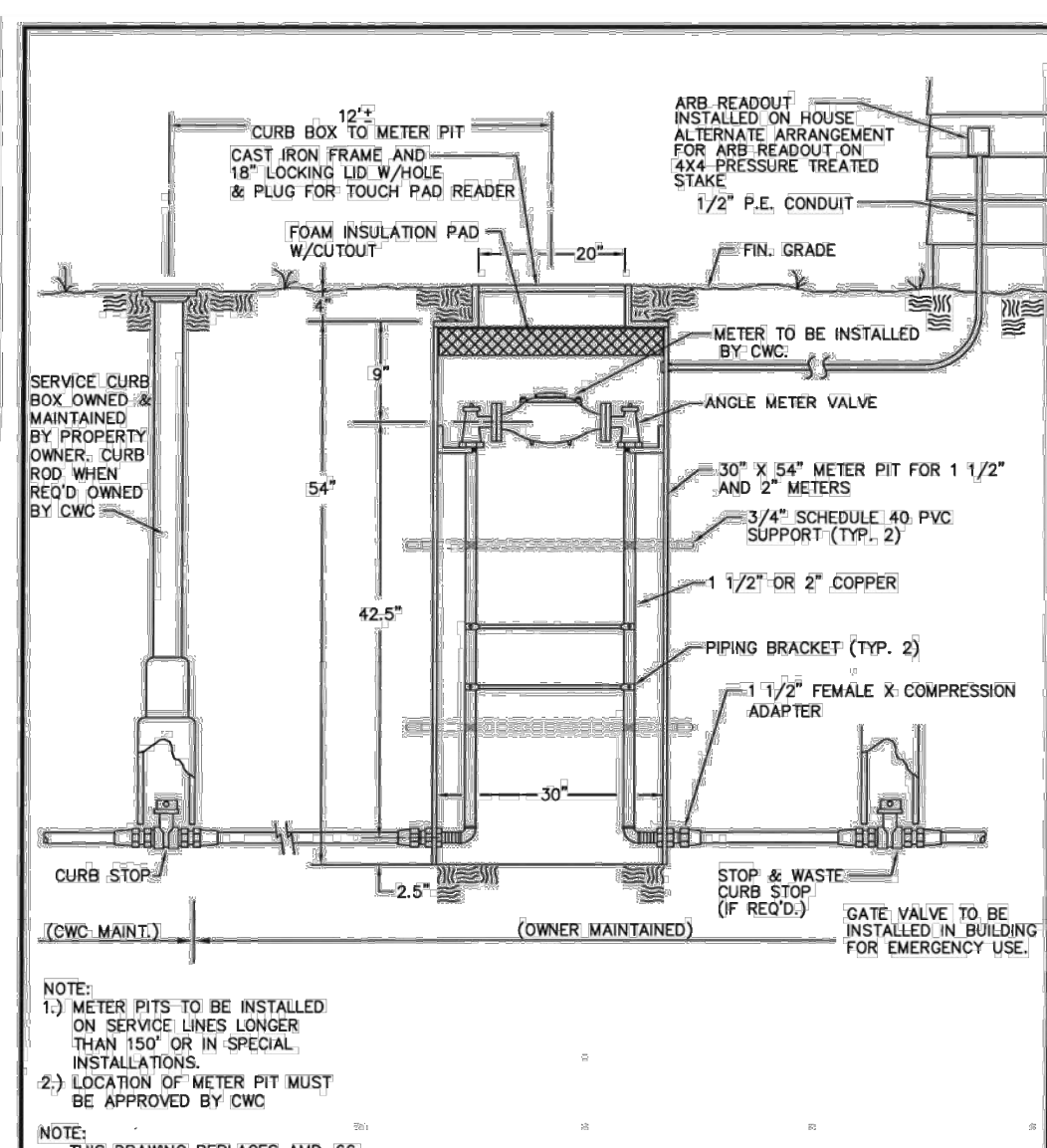
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CHECKED BY: JW
DWG. NO.: CD-2
SHEET NO.: 7 of 13
JOB NO.: 2023-1030



Revision	Description	Date	By	Approved By
1	Drawn By LRS/LMM	1/10/17	LRS	LMM

STANDARD METER PIT FOR 1 1/2" AND LARGER METERS

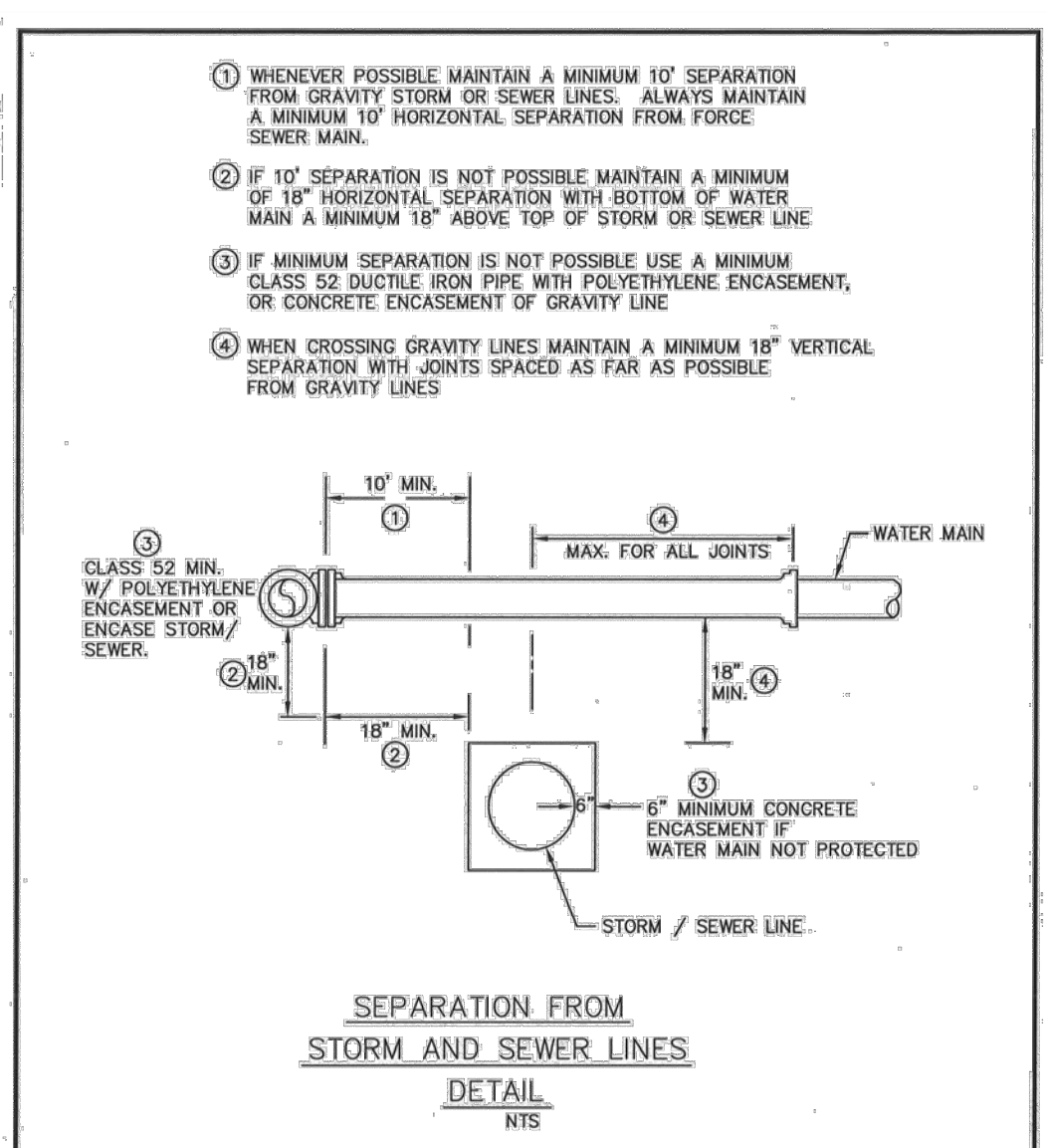
Drawing Number: SMS-5
 Sheet 1 of 1



Revision	Description	Date	By	Approved By
1	Drawn By LRS/LMM	2/28/17	LRS	LMM

STANDARD METER PIT INSTALLATION FOR 1 1/2" AND 2" METERS

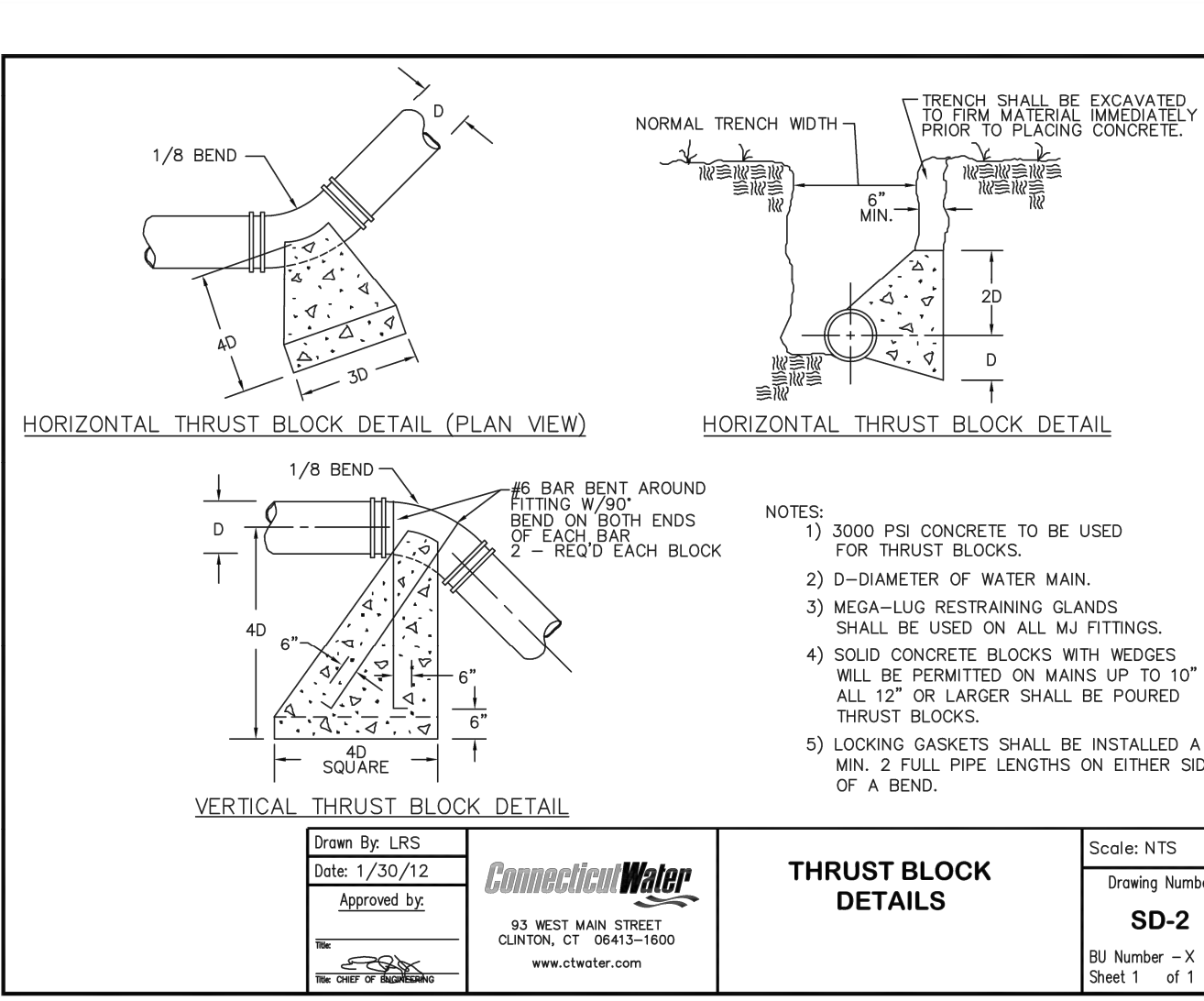
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 Sheet 1 of 1



Revision	Description	Date	By	Approved By
1	Drawn By LRS	4/27/07	LRS	LMM

SEPARATION FROM STORM AND SEWER LINES DETAIL

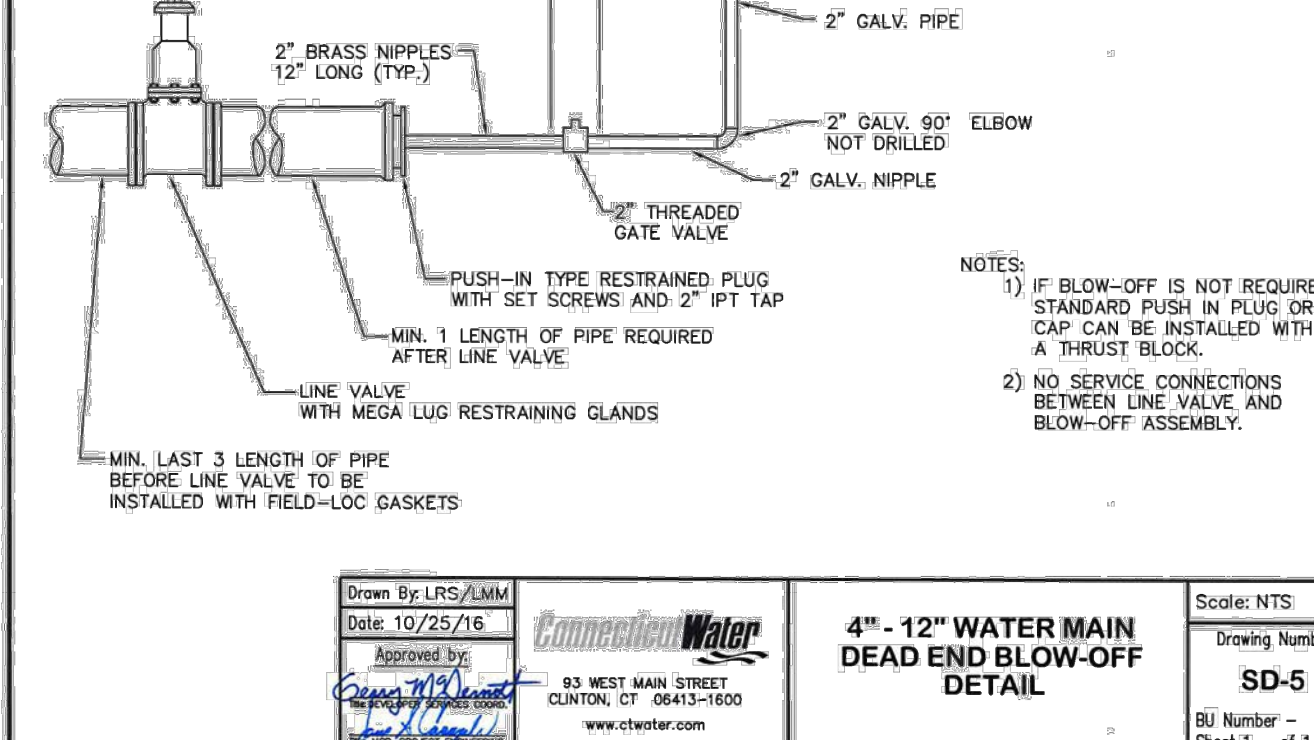
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Revision	Description	Date	By	Approved By
1	Drawn By LRS	1/30/12	LRS	LMM

THRUST BLOCK DETAILS

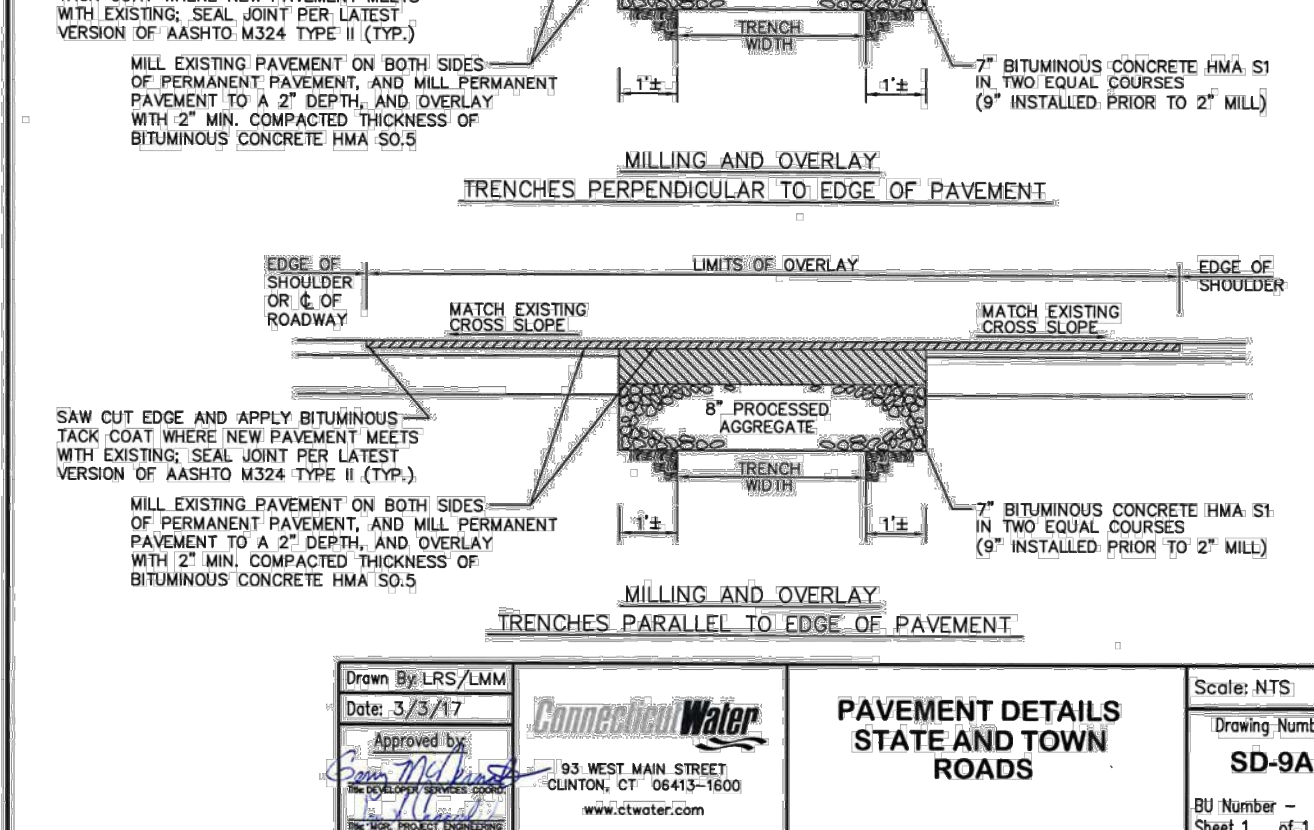
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 Sheet 1 of 1



Revision	Description	Date	By	Approved By
1	Drawn By LRS/LMM	10/25/18	LRS	LMM

4" - 12" WATER MAIN DEAD END BLOW-OFF DETAIL

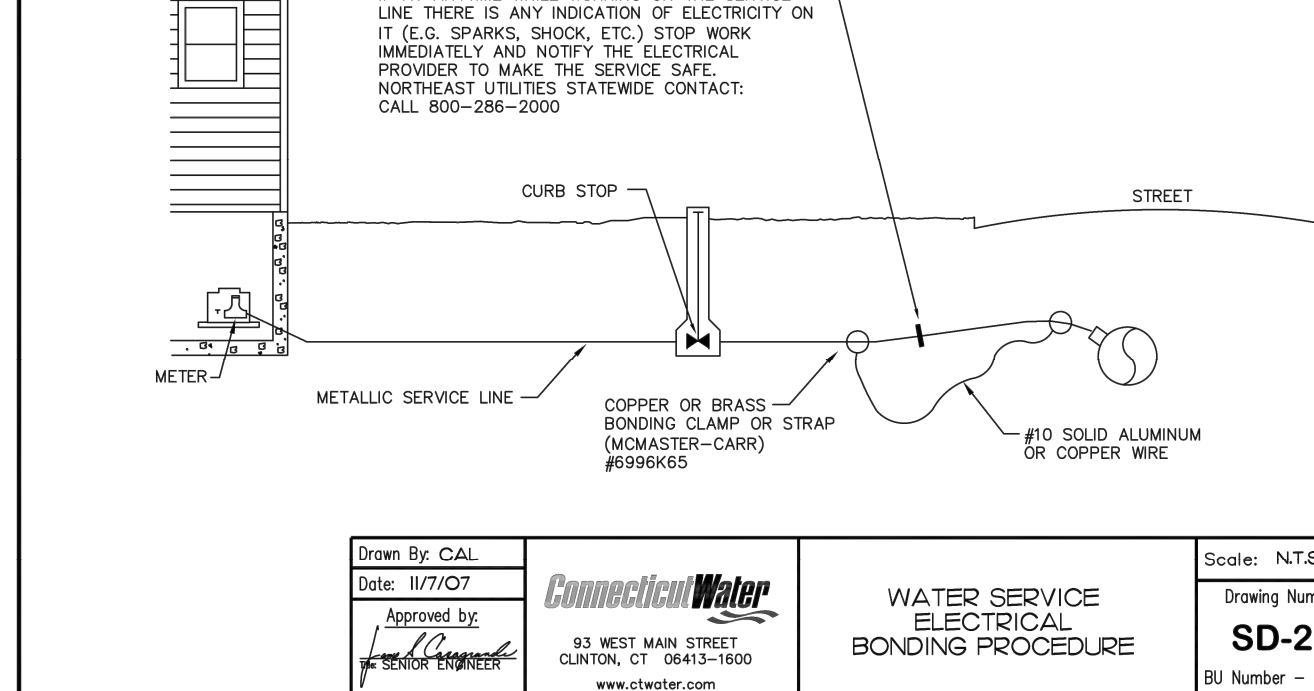
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 Sheet 1 of 1



Revision	Description	Date	By	Approved By
1	Drawn By LRS/LMM	3/3/17	LRS	LMM

PAVEMENT DETAILS STATE AND TOWN ROADS

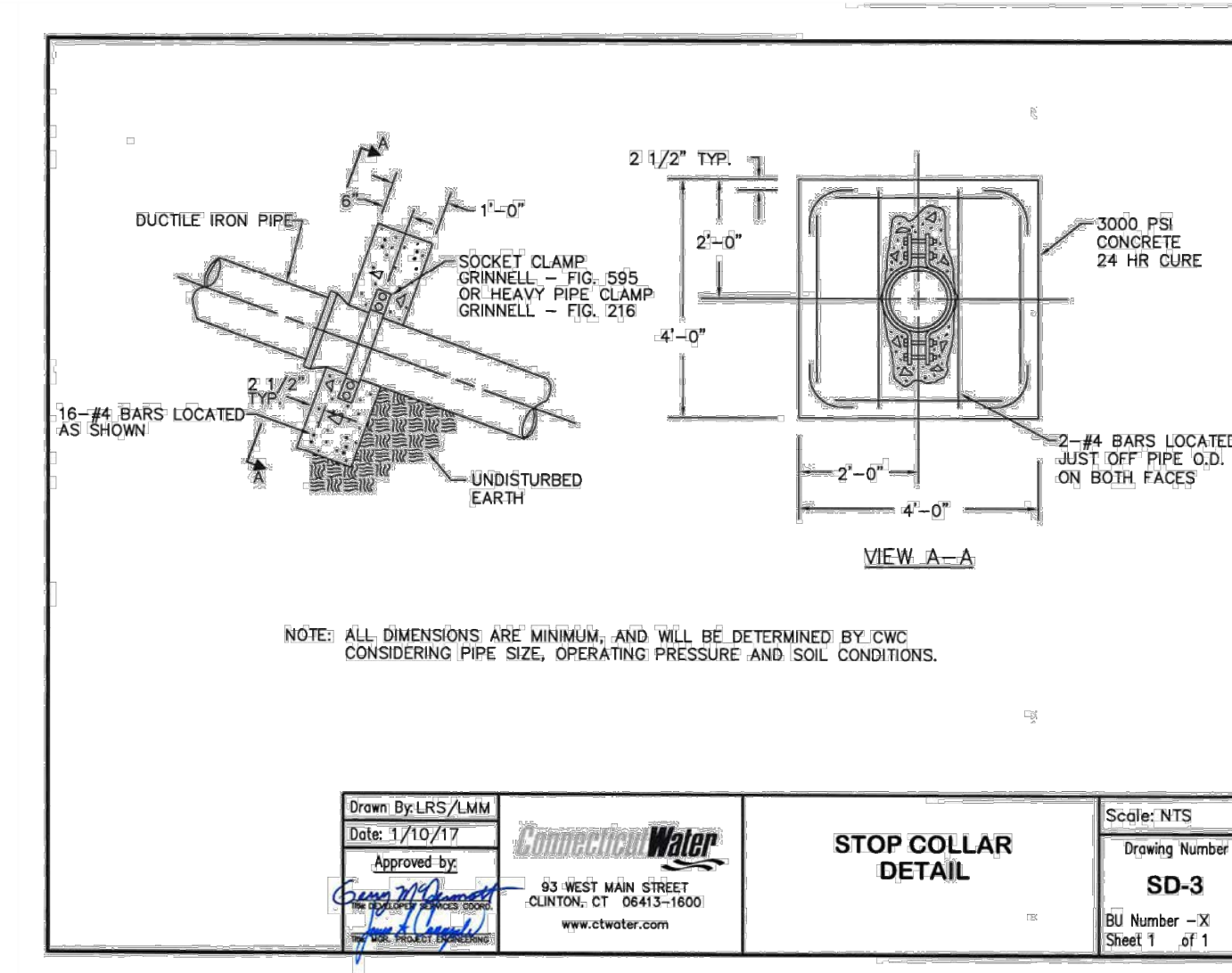
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 Sheet 1 of 1



Revision	Description	Date	By	Approved By
1	Drawn By CAL	11/7/07	CAL	LMM

WATER SERVICE ELECTRICAL BONDING PROCEDURE

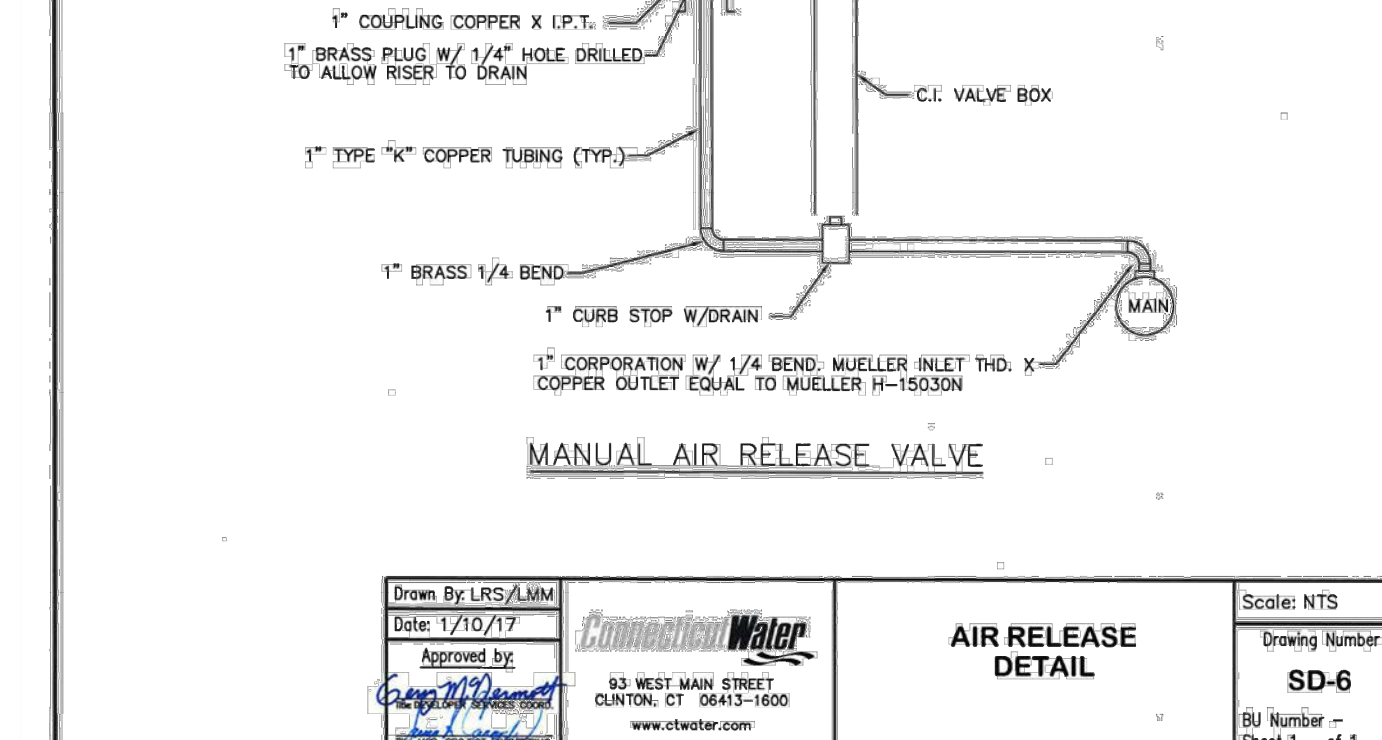
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 Sheet 1 of 1



Revision	Description	Date	By	Approved By
1	Drawn By LRS/LMM	1/10/17	LRS	LMM

STOP COLLAR DETAIL

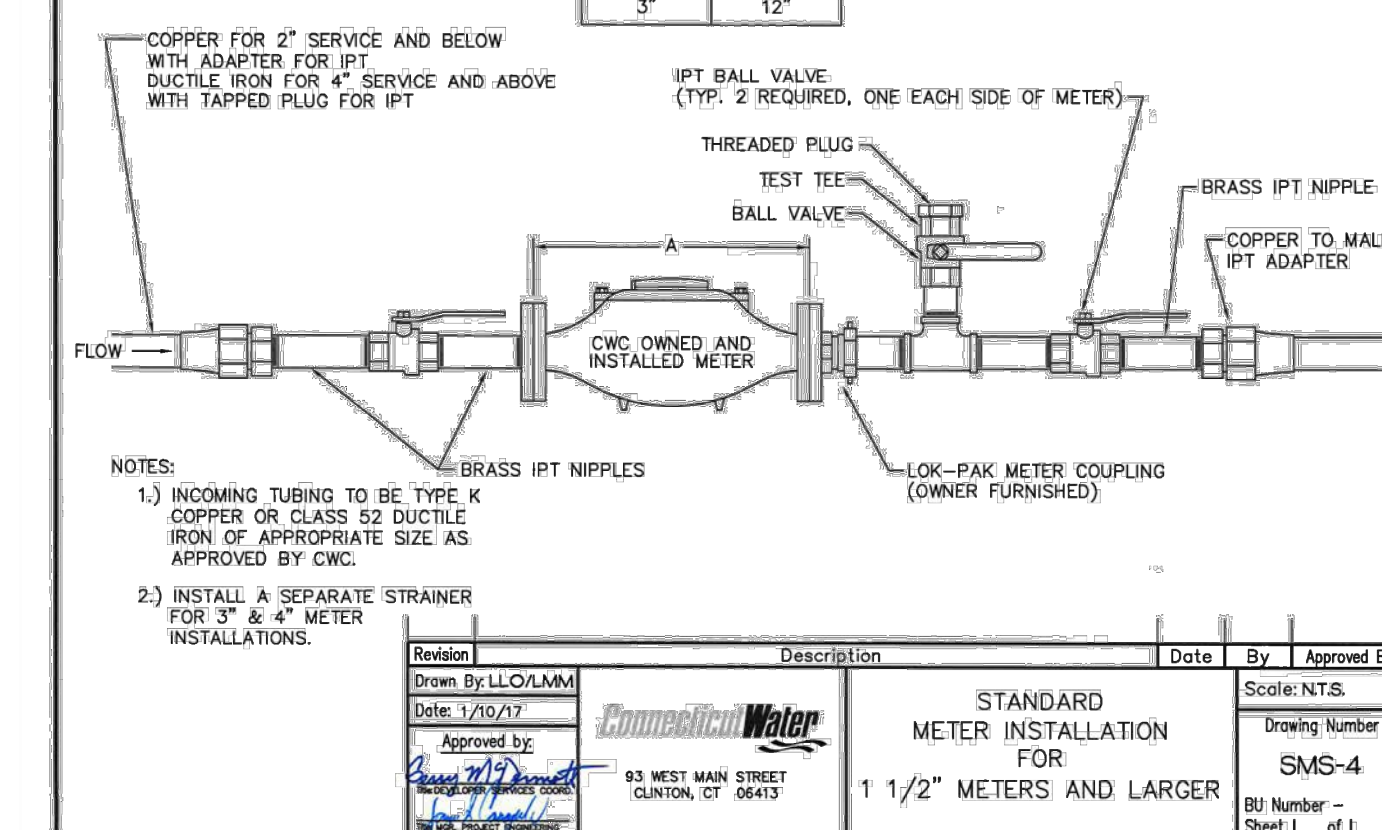
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 Sheet 1 of 1



Revision	Description	Date	By	Approved By
1	Drawn By LRS/LMM	1/10/17	LRS	LMM

AIR RELEASE VALVE DETAIL

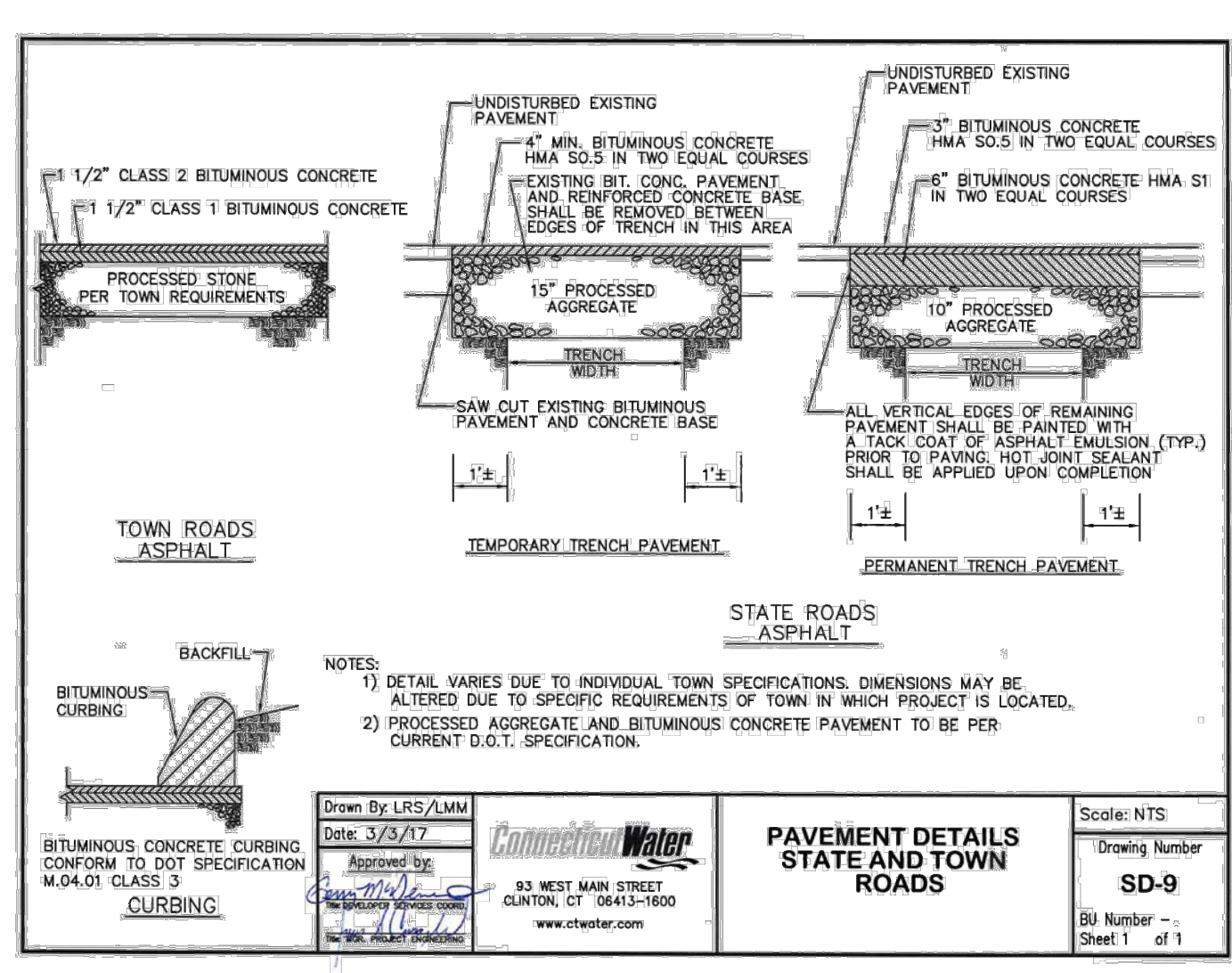
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 Sheet 1 of 1



Revision	Description	Date	By	Approved By
1	Drawn By LLO/LMM	1/10/17	LLO	LMM

STANDARD METER INSTALLATION FOR 1 1/2" METERS AND LARGER

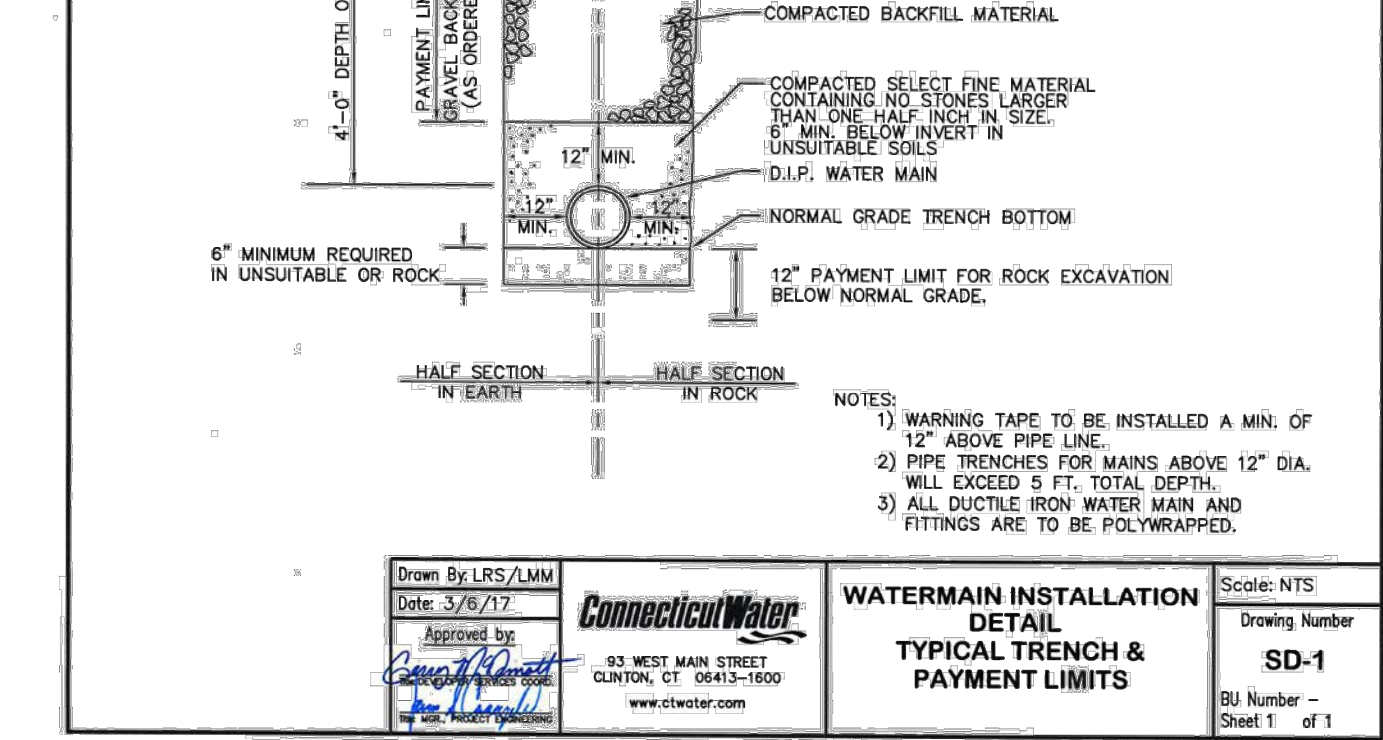
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 Sheet 1 of 1



Revision	Description	Date	By	Approved By
1	Drawn By LRS/LMM	3/3/17	LRS	LMM

PAVEMENT DETAILS STATE AND TOWN ROADS

Drawing Number: SD-9
 Sheet 1 of 1



Revision	Description	Date	By	Approved By
1	Drawn By LRS/LMM	3/6/17	LRS	LMM

WATERMAIN INSTALLATION DETAIL TYPICAL TRENCH & PAYMENT LIMITS

Drawing Number: SD-1
 Sheet 1 of 1

FOR REVIEW - NOT FOR CONSTRUCTION

Approved by the Old Saybrook Zoning Commission

Title _____ Signature _____ Date _____

PLAN PREPARED BY:
 INDIGO LAND DESIGN, LLC
 JOSEPH WREN, P.E.
 CT REG. NO. P1090
 100 E. MAIN STREET, 2ND FLOOR
 OLD SAYBROOK, CT 06457
 PHONE: (860) 388-9343
 WEB: INDIGO-LAND.COM

THE EMBOSSED SEAL OF THE ENGINEER MUST BE AFFIXED HERE FOR THIS MAP TO BE VALID

#	DATE	DESCRIPTION	BY
1	5/14/2024	REVISIONS PER TOWN ENGINEER'S COMMENTS, MISC.	RG

CONSTRUCTION DETAILS (WATER)
 PREPARED FOR ORTHO SAYBROOK, LLC
 52 SPENCER PLAIN ROAD (CT ROUTE 166)
 (MAP 25 LOT 27)
 OLD SAYBROOK, CONNECTICUT

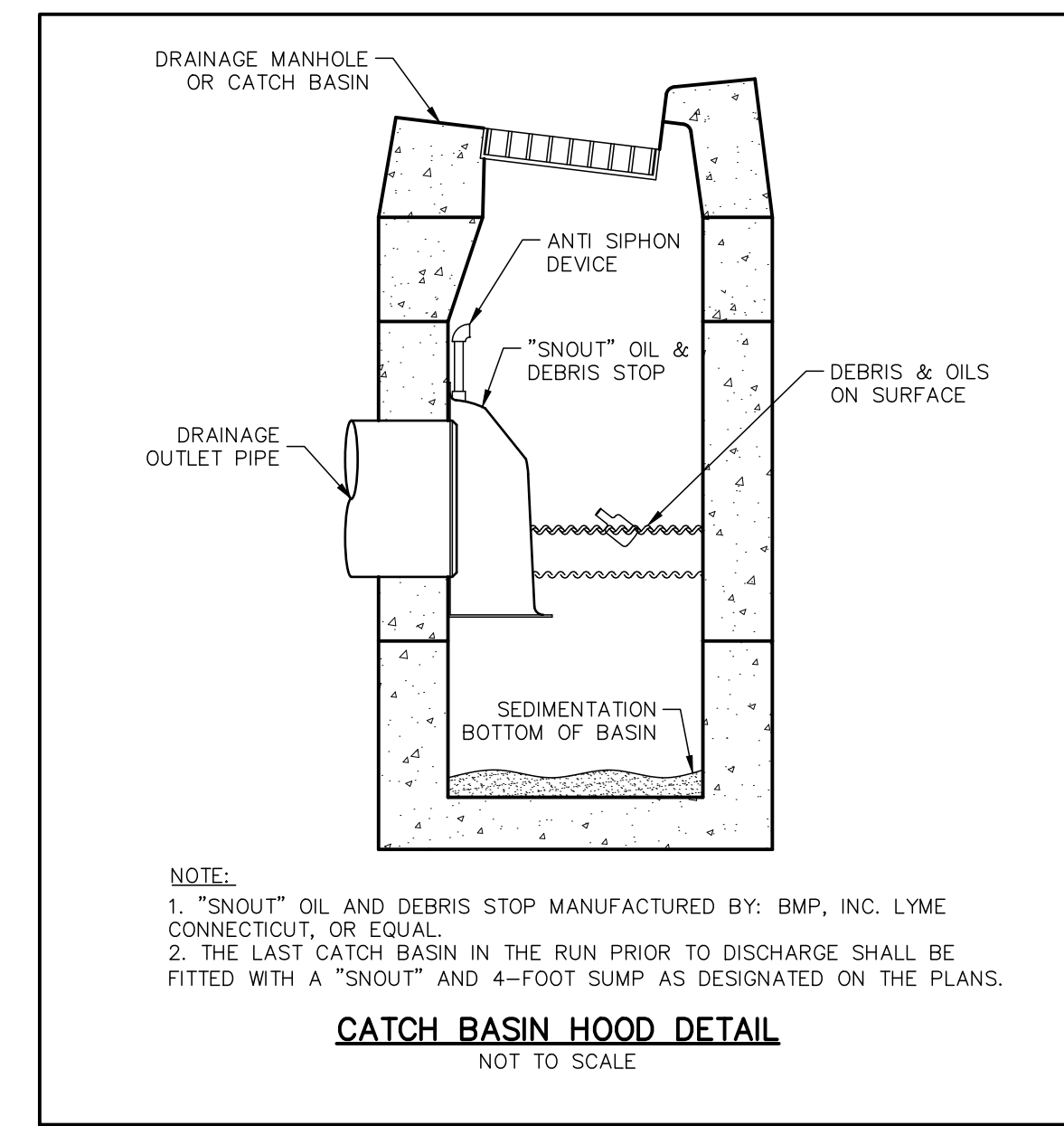
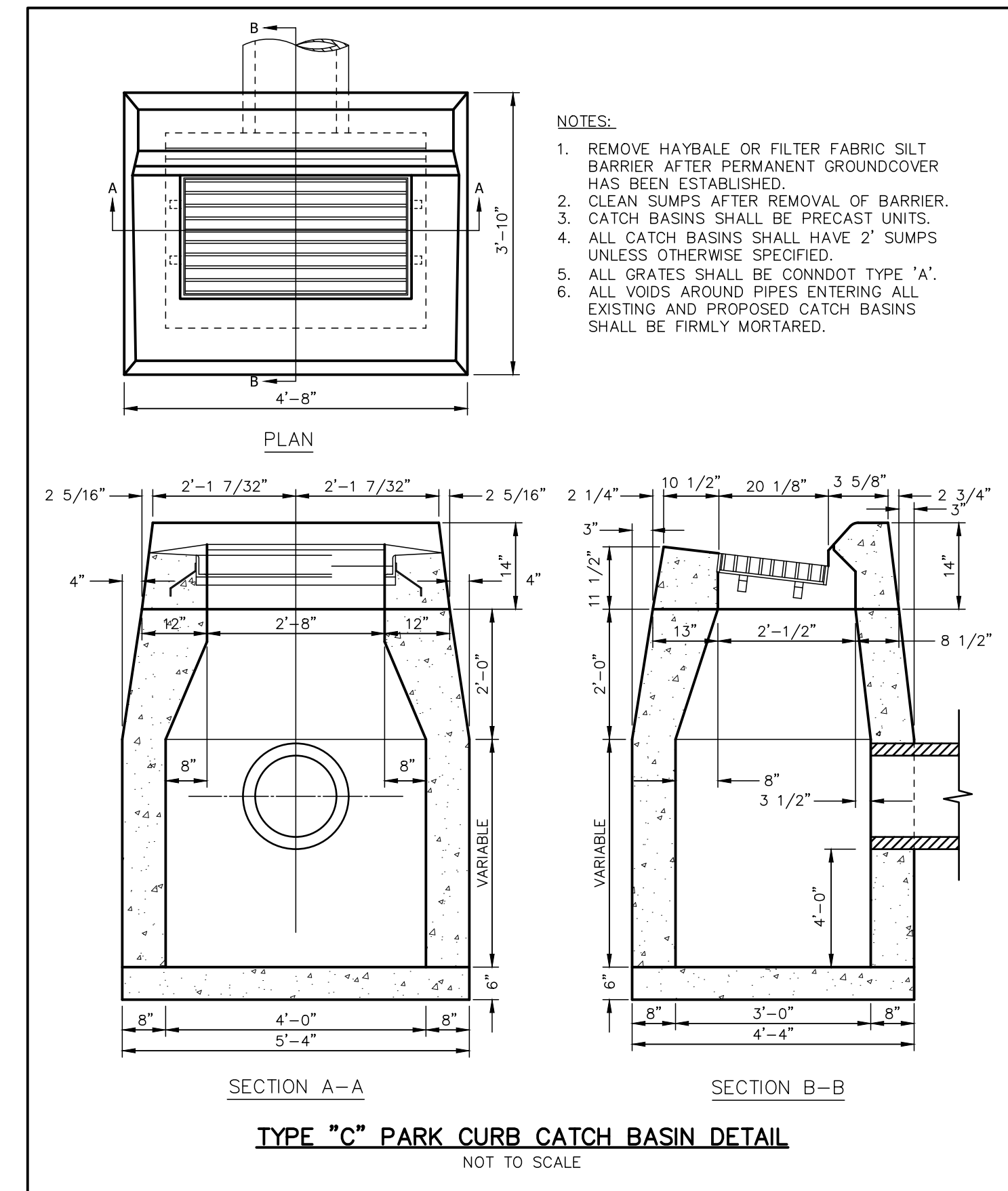
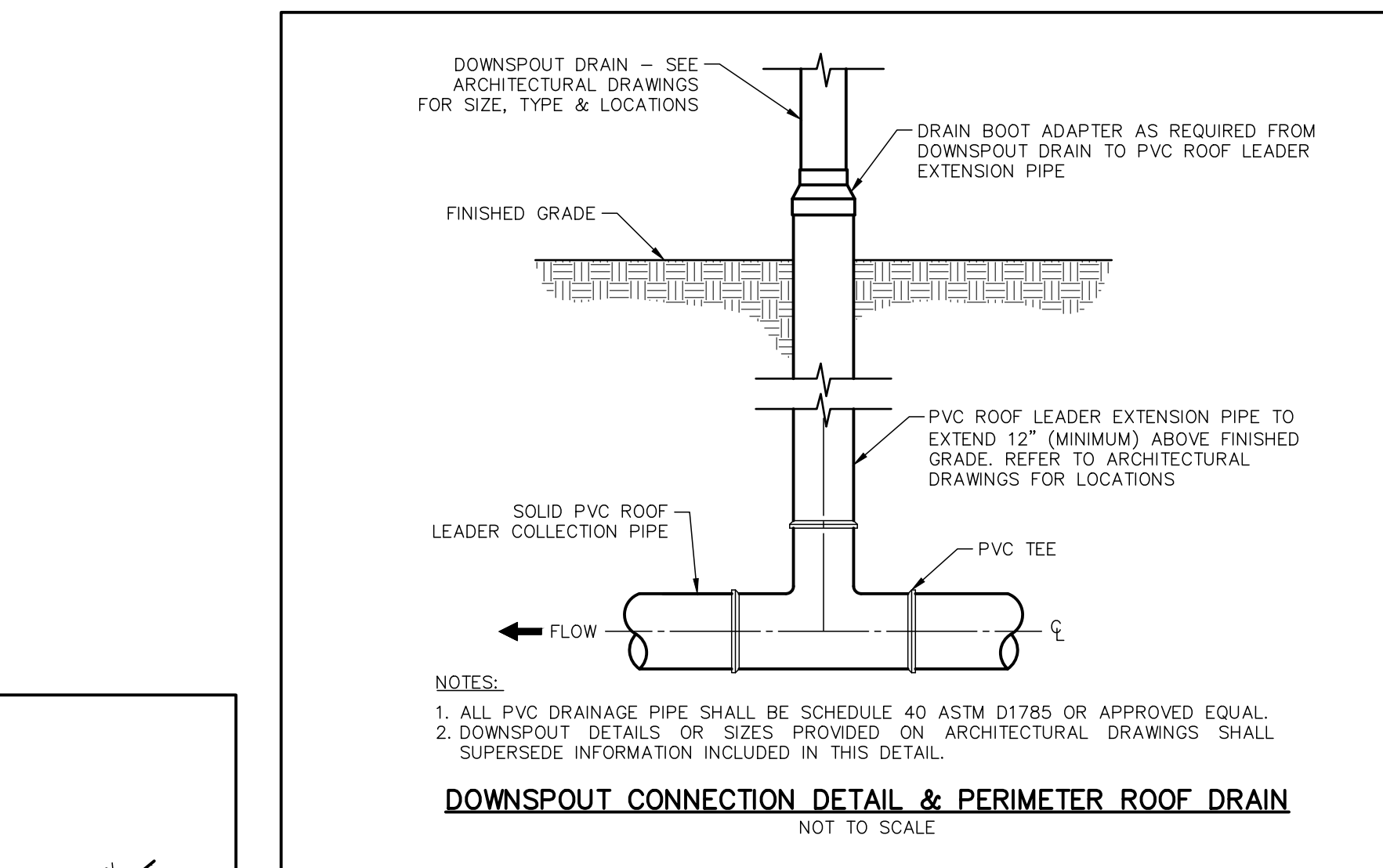
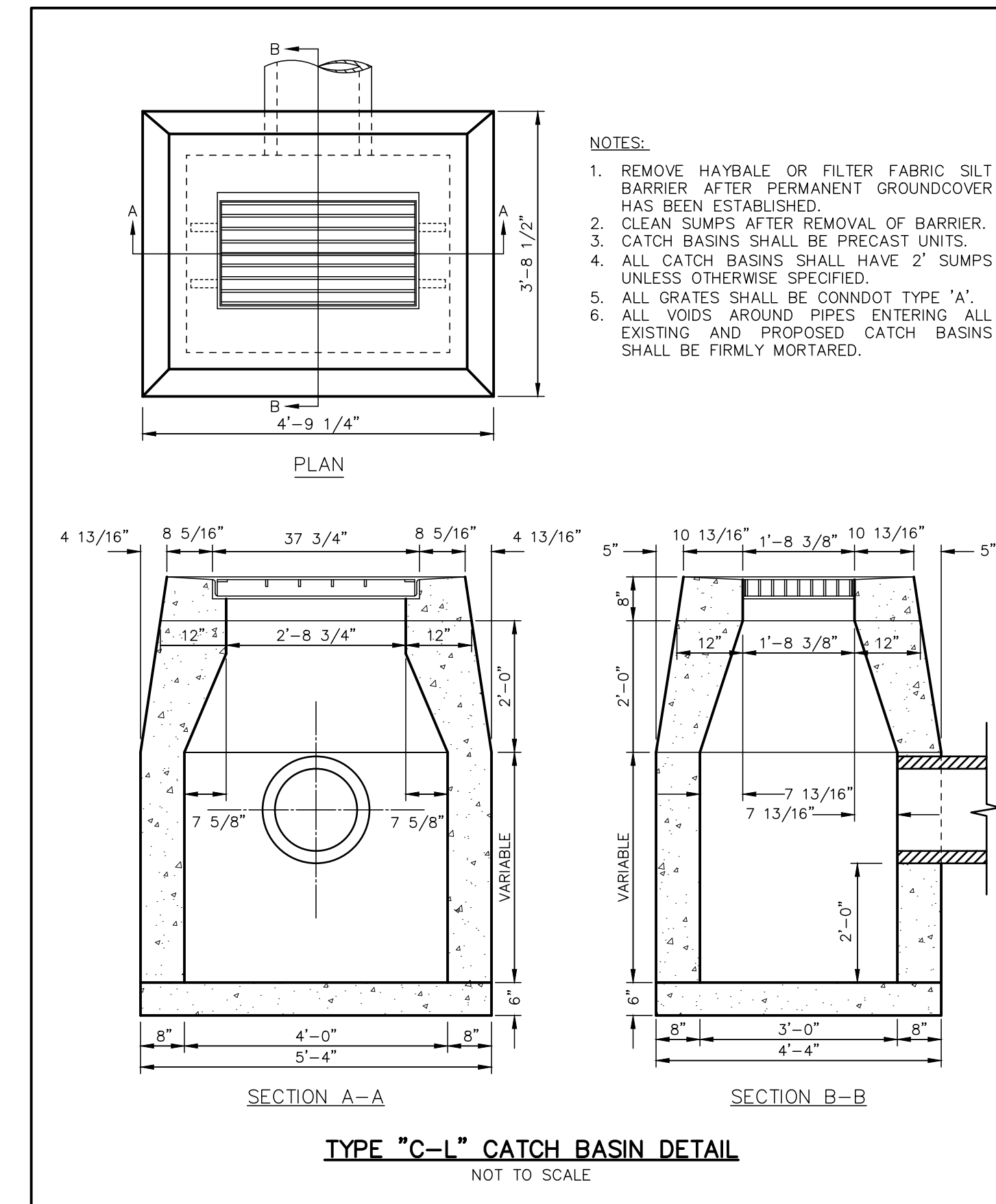
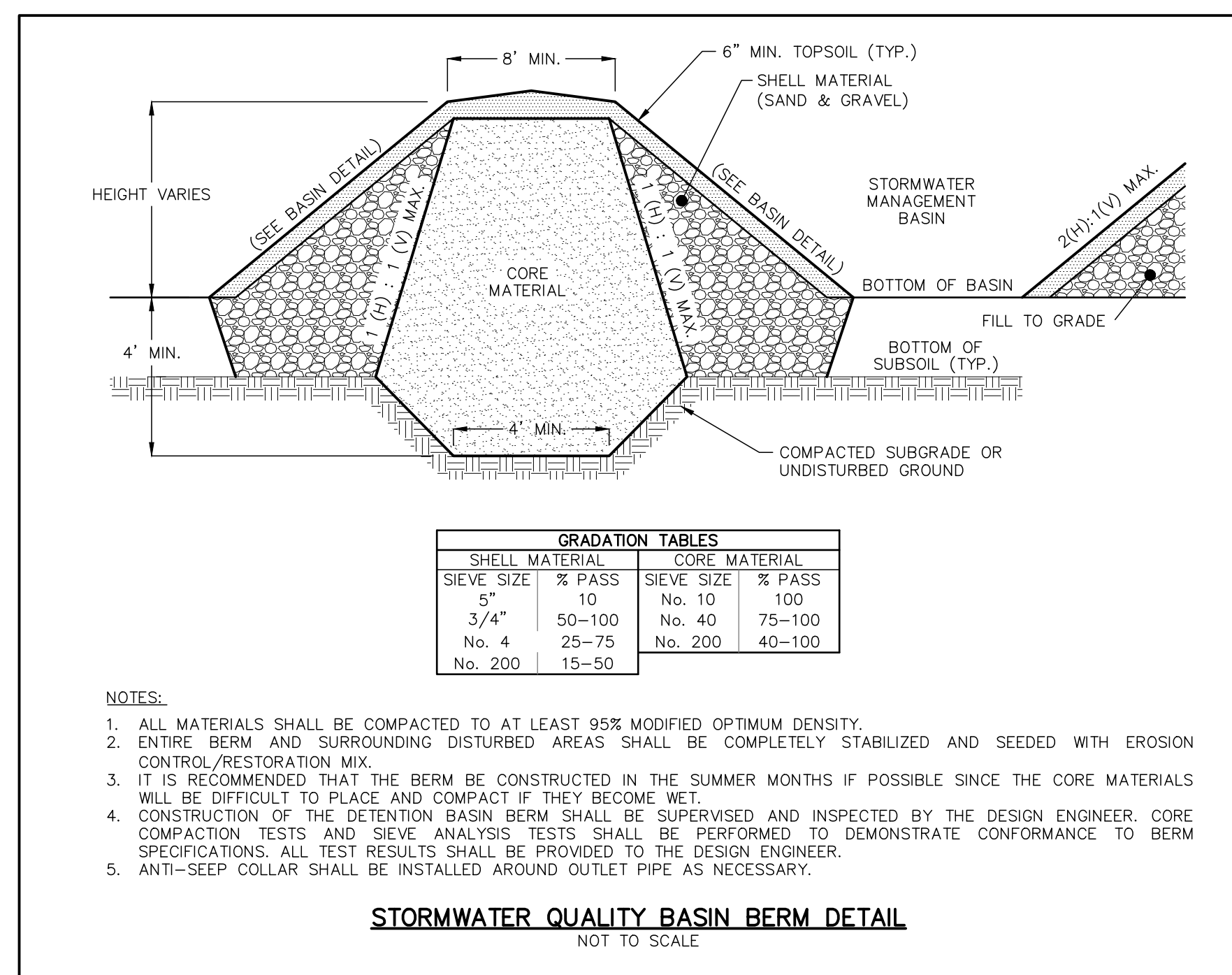
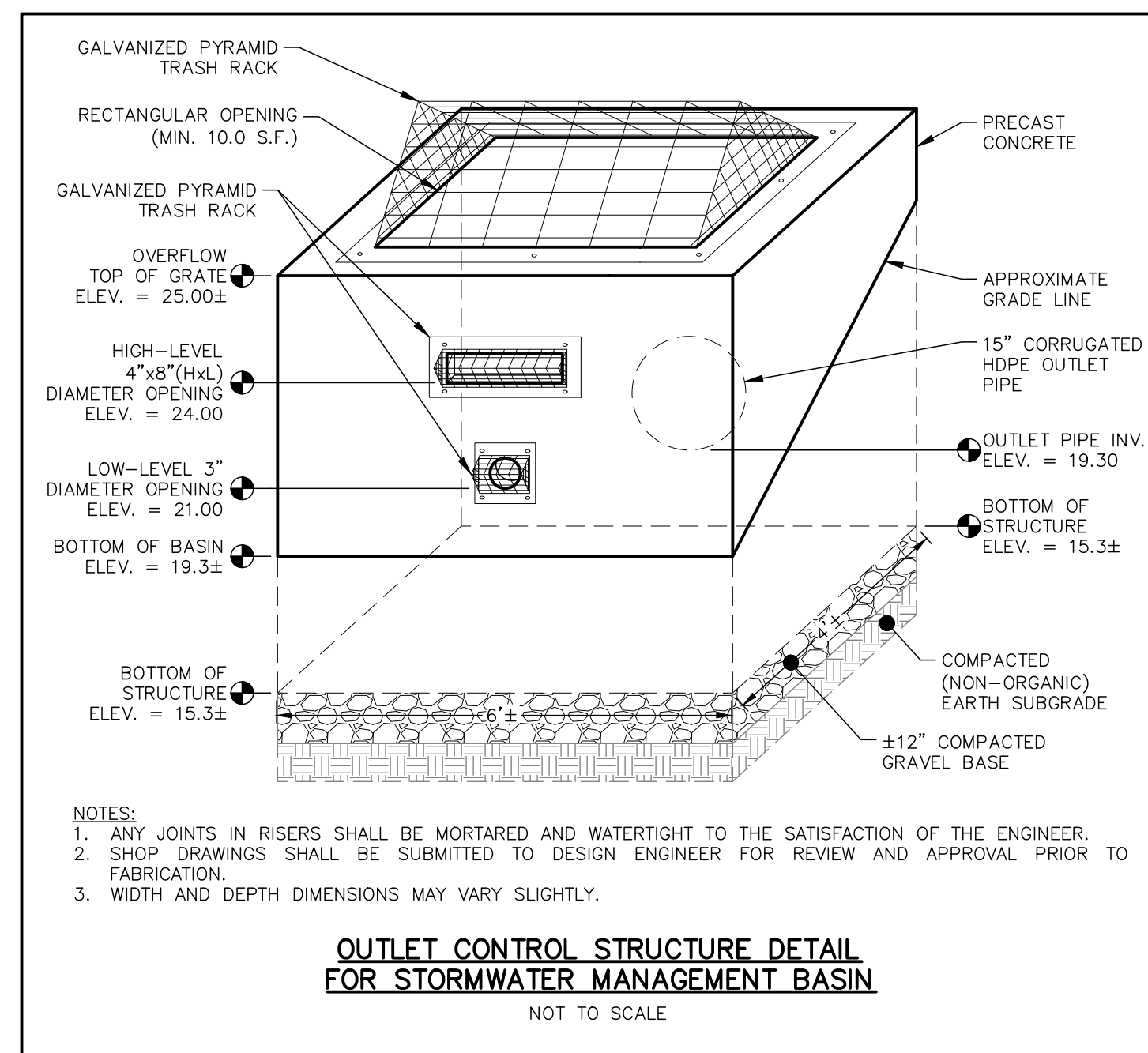
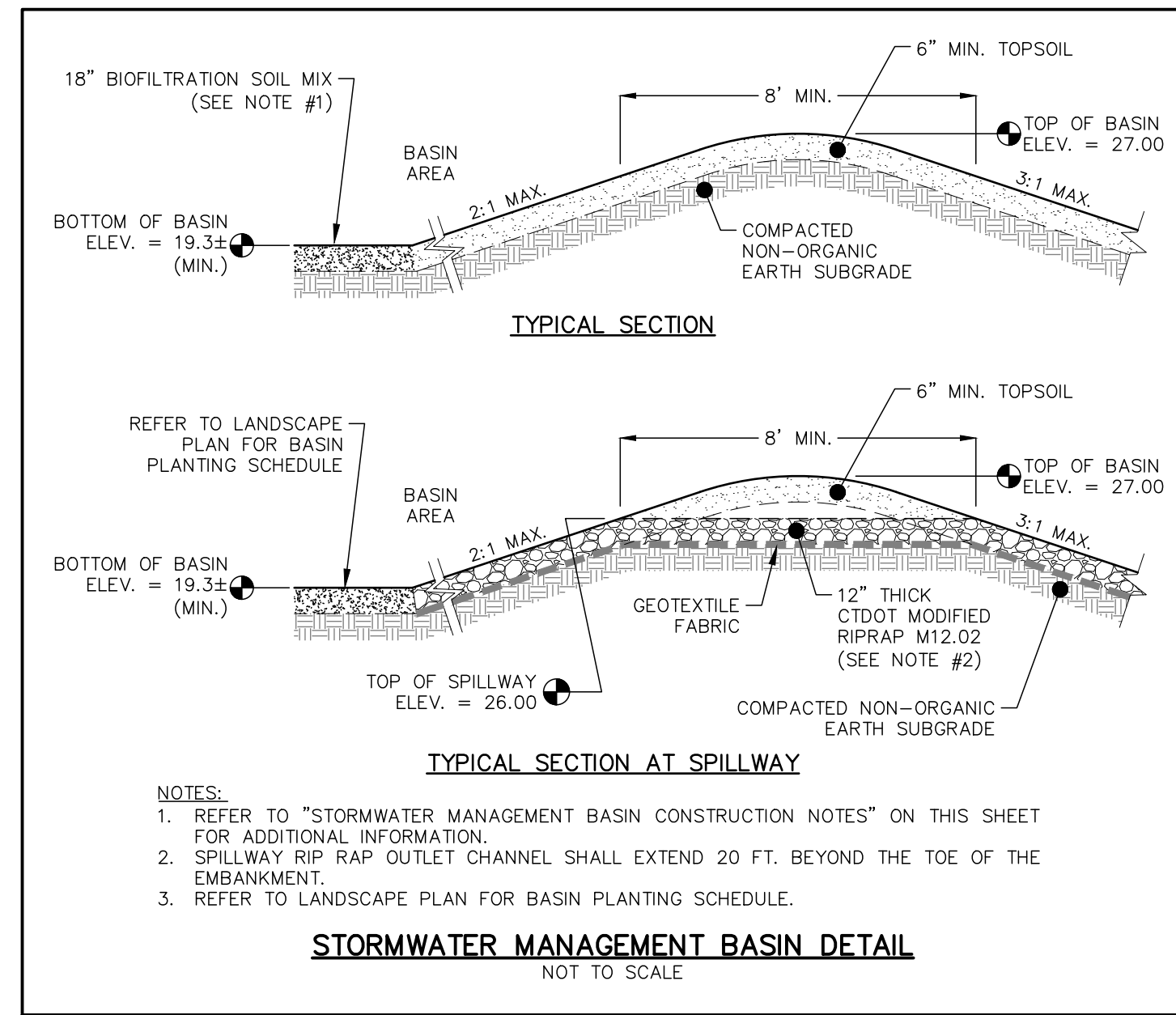
DATE: APRIL 4, 2024
 SCALE: NOT TO SCALE
 DRAWN BY: RG
 CHECKED BY: JW
 DWG. NO.: CD-3
 SHEET NO.: 8 of 13
 JOB NO.: 2023-1030

SEED MIXTURE SCHEDULE

REFER TO LANDSCAPE PLAN ENTITLED "O&G INDUSTRIES, 52 SPENCER PLAIN RD., OLD SAYBROOK, CT", SCALE 1"=30', DATED: APRIL 18, 2024, PREPARED BY: J.W. FLYNN ASSOC. LLC.

STORMWATER MANAGEMENT BASIN CONSTRUCTION NOTES

- AFTER ROUGH GRADING AND SHAPING, THE AREA OF THE BASIN SHALL BE MARKED OFF BY APPROPRIATE FENCING TO PREVENT THE MOVEMENT OF CONSTRUCTION VEHICLES OVER AND THE POSSIBLE OVER COMPACTION OF THE UNDERLYING NATURAL SOILS.
- BASIN SHALL NEVER BE USED FOR SEDIMENT CONTROL DURING AN ACTIVE CONSTRUCTION PERIOD.
- DURING CONSTRUCTION, SEDIMENT SHALL BE PREVENTED FROM ENTERING THE AREA OF THE BASIN. THE CONTRACTOR SHALL ENSURE THAT THE AREAS DRAINING TO THE BASIN ARE STABILIZED IN A TIMELY MANNER AND MAINTAINED OVER THE ENTIRE AREA DRAINING TO THE BASIN.
- THE DESIGN ENGINEER SHALL MONITOR THE CONSTRUCTION OF THE STORMWATER MANAGEMENT BASIN. WILL PERFORM ALL FOLLOW UP INSPECTIONS, ASSESSMENTS AND REPORTS AND REMEDIATION WORK (IF NECESSARY) AND SHALL PROVIDE CERTIFICATION THAT THE SYSTEM WAS INSTALLED IN SUBSTANTIAL CONFORMANCE WITH THE APPROVED PLANS. A LICENSED LAND SURVEYOR SHALL PREPARE AN AS-BUILT OF THE CONSTRUCTED STORMWATER MANAGEMENT BASIN AREAS. THIS PLAN SHALL INCLUDE THE LOCATION AND INVERTS OF ANY ROOF DRAIN, DRAINAGE PIPE, CATCH BASIN AND OUTLET CONTROL STRUCTURE.
- ALL DISTURBED AREAS SHALL BE FINE GRADED WITH 6" TOPSOIL, RAKED, SEEDED AND MULCHED IN A TIMELY MANNER. THE BOTTOM OF THE BASINS SHALL BE SEEDED PER THE PROJECT LANDSCAPE ARCHITECT.
- FOREBAYS SHALL BE SIZED TO CONTAIN 100% OF THE WATER QUALITY VOLUME AND SHALL BE FORMED BY A BARRIER SUCH AS AN EARTHEN OR MODIFIED RIPRAP BERM. EACH FOREBAY SHALL ALSO HAVE A FIXED VERTICAL SEDIMENT DEPTH MARKER INSTALLED TO MEASURE SEDIMENT DEPOSITION.
- REFER TO LANDSCAPE PLAN ENTITLED "O&G INDUSTRIES, 52 SPENCER PLAIN RD., OLD SAYBROOK, CT", SCALE 1"=30', DATED: APRIL 18, 2024, PREPARED BY: J.W. FLYNN ASSOC. LLC.
- A BIOFILTRATION SOIL MIX SHALL BE INSTALLED ALONG THE ENTIRE BOTTOM OF STORMWATER MANAGEMENT BASIN #1. THE BIOFILTRATION MIX SHALL CONSIST OF 50-60% SAND, 20-30% TOPSOIL, AND 20-30% WEED-FREE LEAF COMPOST OR EQUIVALENT.



FOR REVIEW - NOT FOR CONSTRUCTION

Approved by the Old Saybrook Zoning Commission

Title _____ Signature _____ Date _____

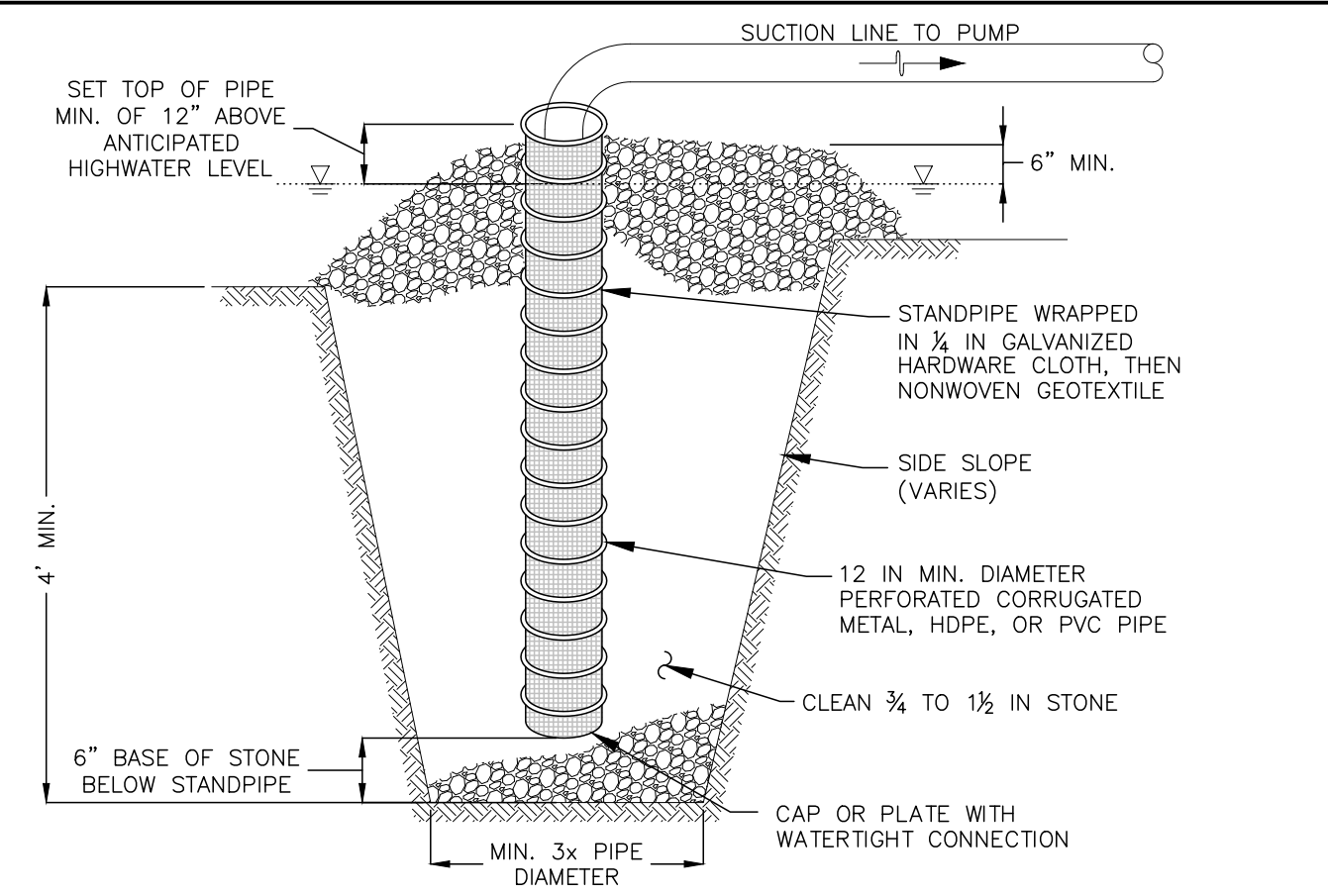
PLAN PREPARED BY:
INDIGO LAND DESIGN, LLC
JOSEPH WREN, P.E.
CT REG. NO. 21090
10 FLEET STREET, 2ND FLOOR
OLD SAYBROOK, CT 06475
PHONE: (860) 388-9343
WEB: INDIGO-LAND.COM

THE EMBOSSED SEAL OF THE REGISTERED PROFESSIONAL ENGINEER MUST BE AFFIXED HERE FOR THIS MAP TO BE VALID

#	DATE	DESCRIPTION	BY
1	5/14/2024	REVISIONS PER TOWN ENGINEER'S COMMENTS, MISC.	RG

CONSTRUCTION DETAILS (DRAINAGE)
PREPARED FOR ORKHO SAYBROOK, LLC
52 SPENCER PLAIN ROAD (CT ROUTE 166)
(MAP 25 LOT 27)
OLD SAYBROOK, CONNECTICUT

DATE: APRIL 4, 2024
SCALE: NOT TO SCALE
DRAWN BY: RG
CHECKED BY: JW
DWG. NO.: CD-4
SHEET NO.: 9 of 13
JOB NO.: 2023-1030



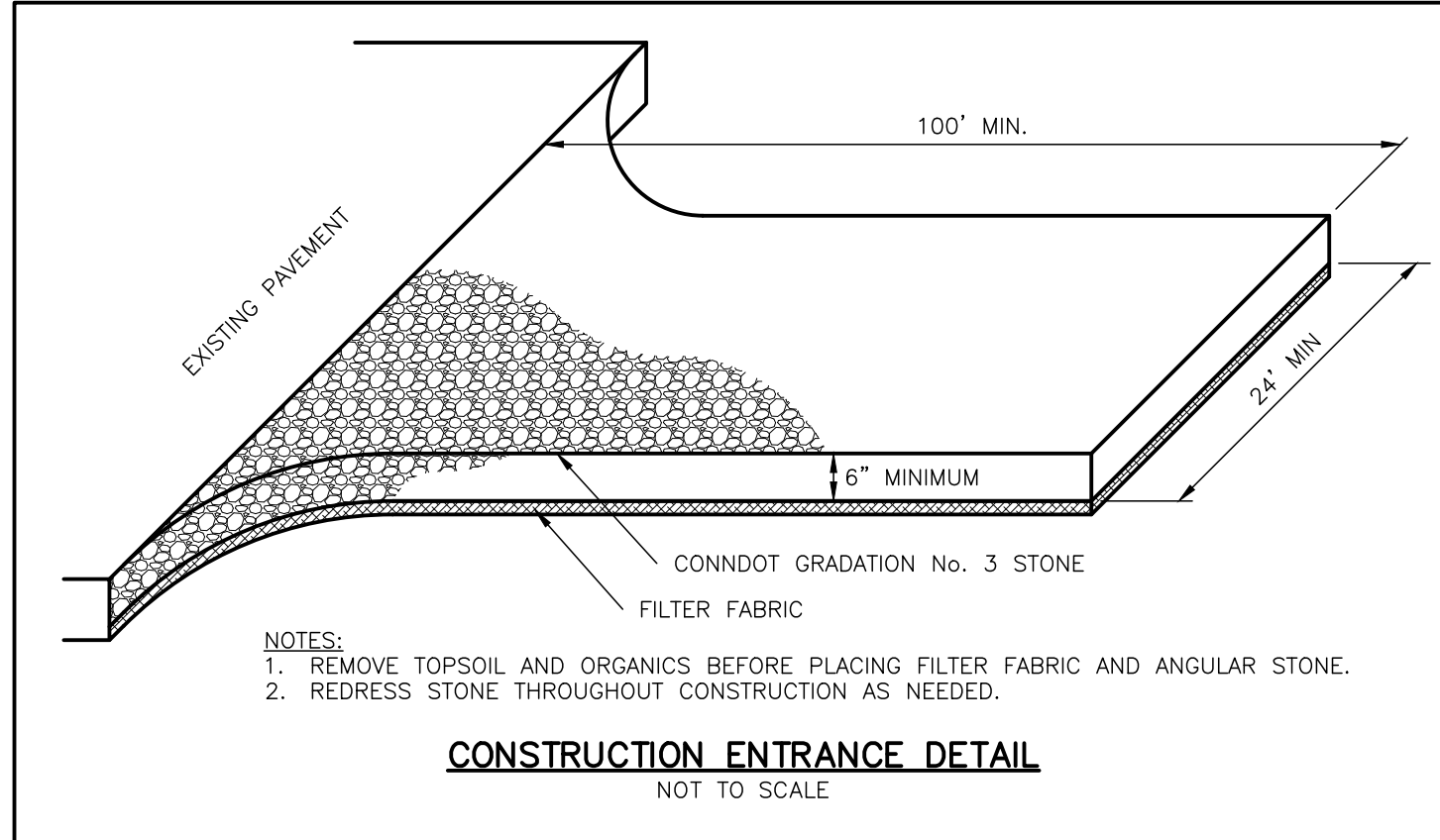
ELEVATION

CONSTRUCTION SPECIFICATIONS

- USE 12 INCH OR LARGER DIAMETER CORRUGATED METAL, HDPE, OR PVC PIPE WITH 1 INCH DIAMETER PERFORATIONS, 6 INCHES ON CENTER. BOTTOM OF PIPE MUST BE CAPPED WITH WATER-TIGHT SEAL.
- WRAP PIPE WITH 1/4 INCH GALVANIZED HARDWARE CLOTH AND WRAP NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H-1 MATERIALS, OVER THE HARDWARE CLOTH.
- EXCAVATE PIT TO THREE TIMES THE PIPE DIAMETER AND FOUR FEET IN DEPTH. PLACE 3/4 TO 1 1/2 INCH STONE OR EQUIVALENT RECYCLED CONCRETE, 6 INCHES IN DEPTH PRIOR TO PIPE PLACEMENT.
- SET TOP OF PIPE MINIMUM 12 INCHES ABOVE WATER SURFACE ELEVATION.
- BACKFILL PIT AROUND THE PIPE WITH 3/4 TO 1 1/2 INCH CLEAN STONE OR EQUIVALENT RECYCLED CONCRETE AND EXTEND STONE A MINIMUM OF 6 INCHES ABOVE ANTICIPATED WATER SURFACE ELEVATION.
- DISCHARGE TO A STABLE AREA AT A NONEROSIVE RATE.
- A SUMP PIT REQUIRES FREQUENT MAINTENANCE. IF SYSTEM CLOGS, REMOVE PERFORATED PIPE AND REPLACE GEOTEXTILE AND STONE. KEEP POINT OF DISCHARGE FREE OF EROSION.
- THIS DETAIL ONLY REQUIRED FOR DEWATERING DURING CONSTRUCTION IF SHALLOW GROUNDWATER IS ENCOUNTERED.

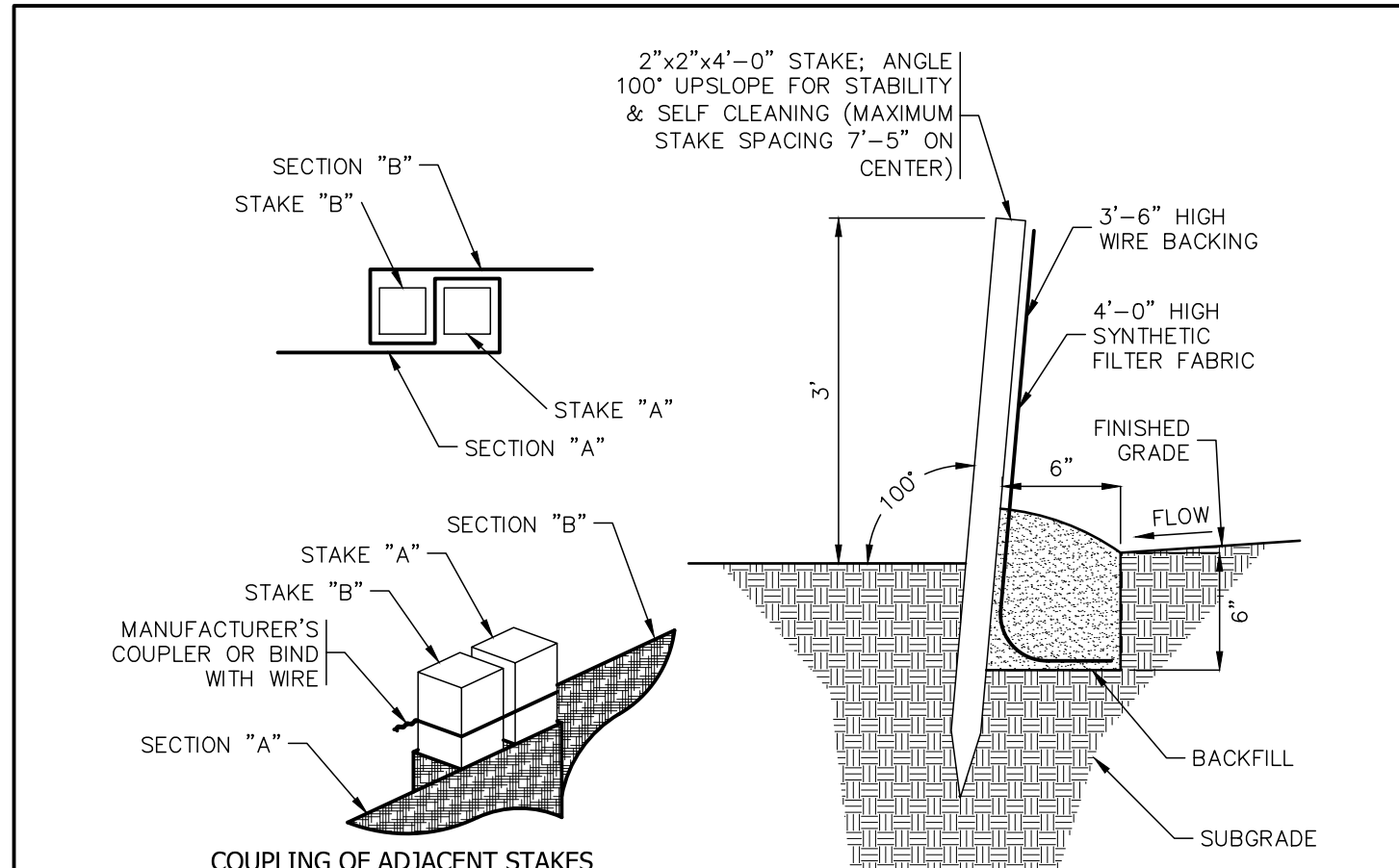
SUMP PIT DETAIL

NOT TO SCALE



CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE

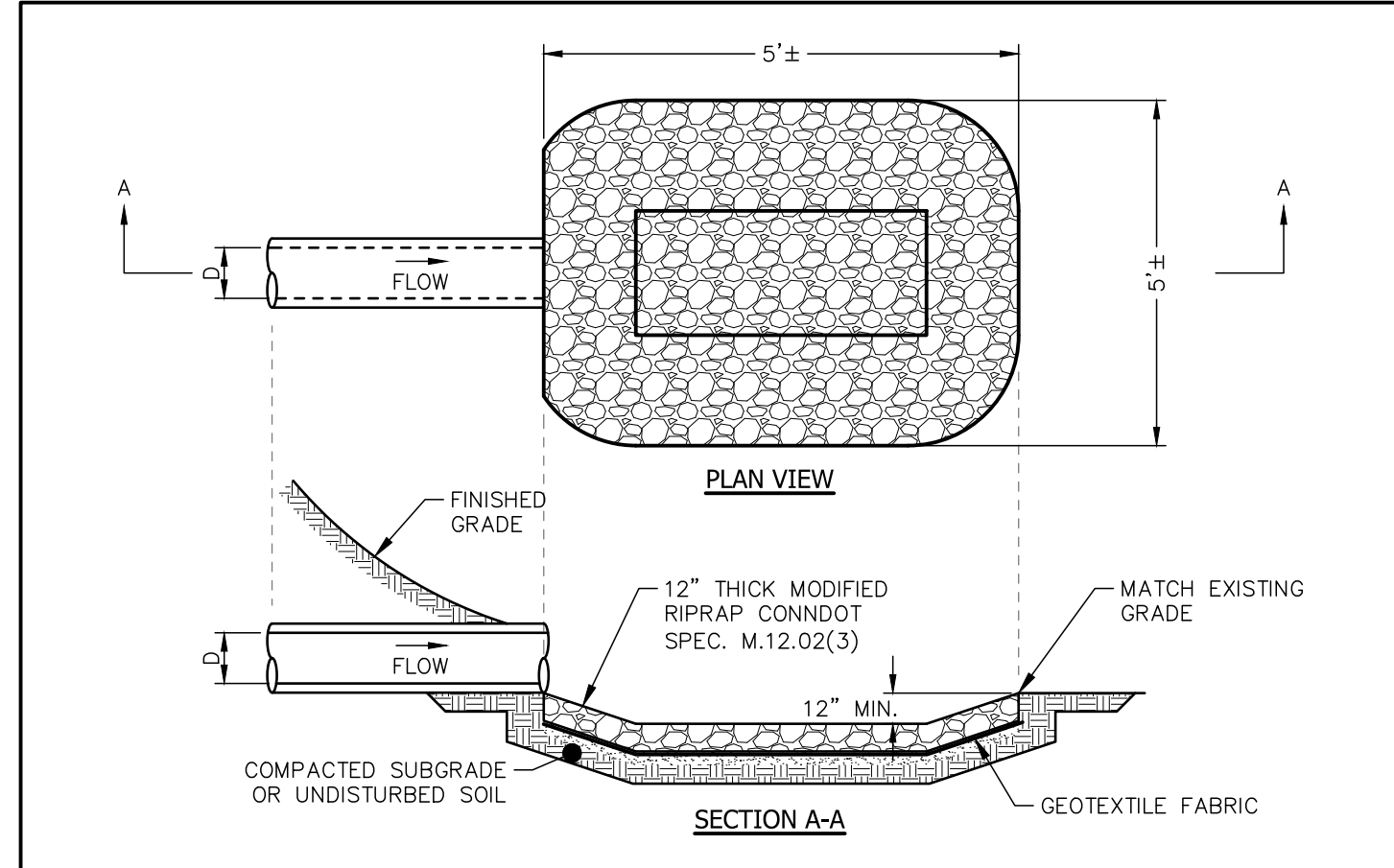


COUPLING OF ADJACENT STAKES

SILT FENCE BARRIER

NOT TO SCALE

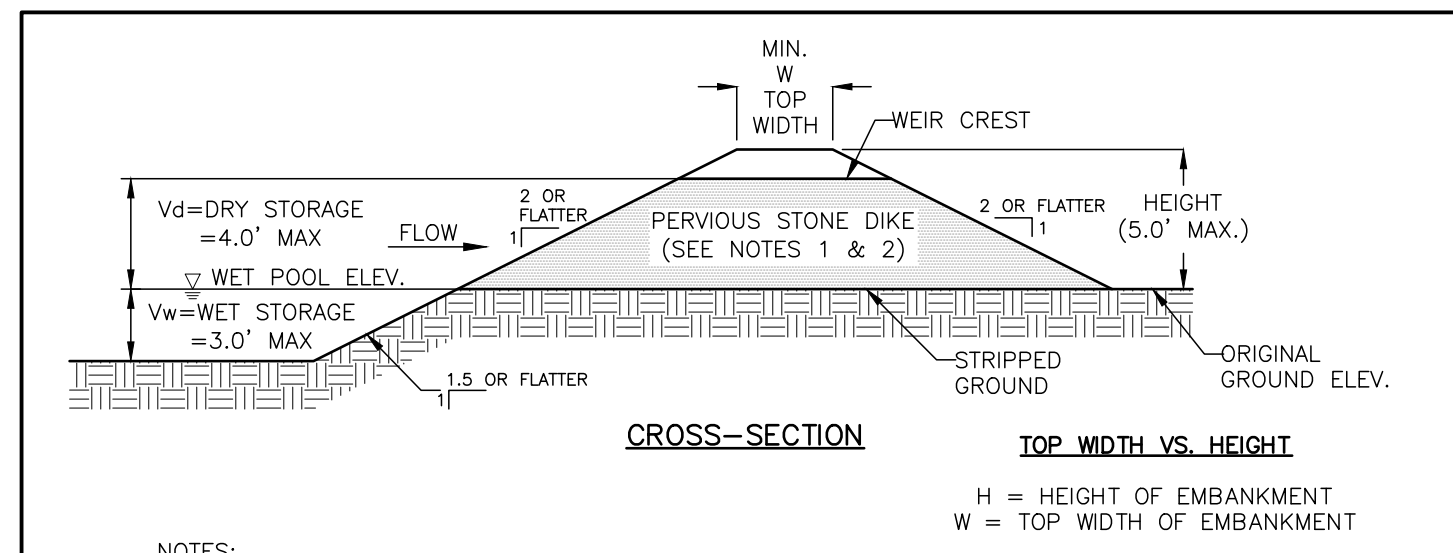
- NOTES:
- ALL SILT FENCE SHALL BE INSPECTED PERIODICALLY AND AFTER ALL RAINFALL EVENTS. REPAIRS SHALL BE MADE IMMEDIATELY TO KEEP THE SILTATION CONTROL BARRIER EFFECTIVE.



PRE-FORMED SCOUR HOLE DETAIL

NOT TO SCALE

- NOTE:
- PRE-FORMED SCOUR HOLE TO BE INSTALLED LEVEL. THE OUTLET INVERT SHALL MATCH THE EXISTING GRADE ELEVATION AT THE DOWNSTREAM END.



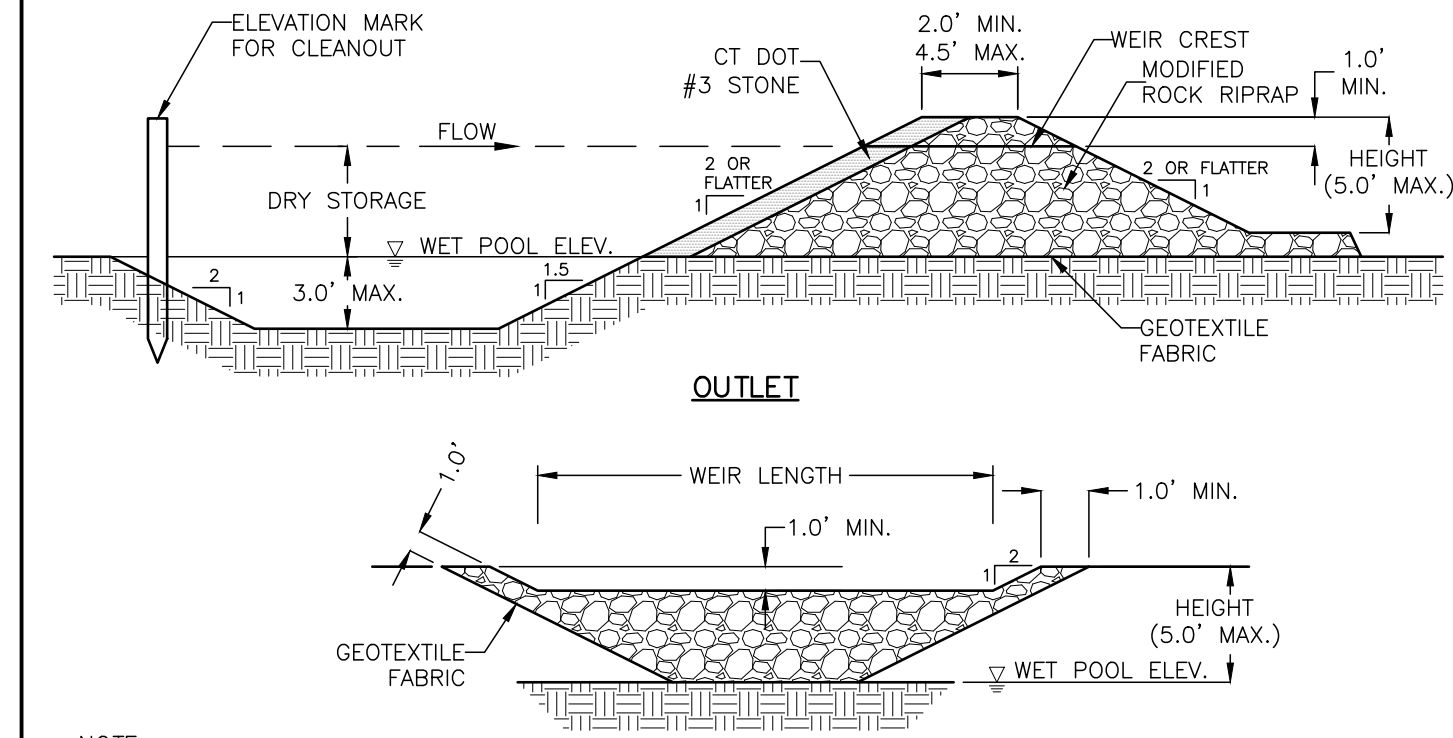
CROSS-SECTION

TOP WIDTH VS. HEIGHT

H = HEIGHT OF EMBANKMENT
W = TOP WIDTH OF EMBANKMENT

H (ft)	W (ft)
1.5	2.0
2.0	2.0
2.5	2.5
3.0	2.5
3.5	3.0
4.0	3.0
4.5	4.0
5.0	4.5

- NOTES:
- PERVIOUS STONE DIKE SHALL BE CONSTRUCTED OF CT DOT MODIFIED RIPRAP WITH #3 STONE ON FACE.
 - NON-OVERFLOW PORTIONS AND ABUTMENTS OF TEMPORARY SEDIMENT TRAP MAY BE CONSTRUCTED OF COMPACTED EARTH FILL.

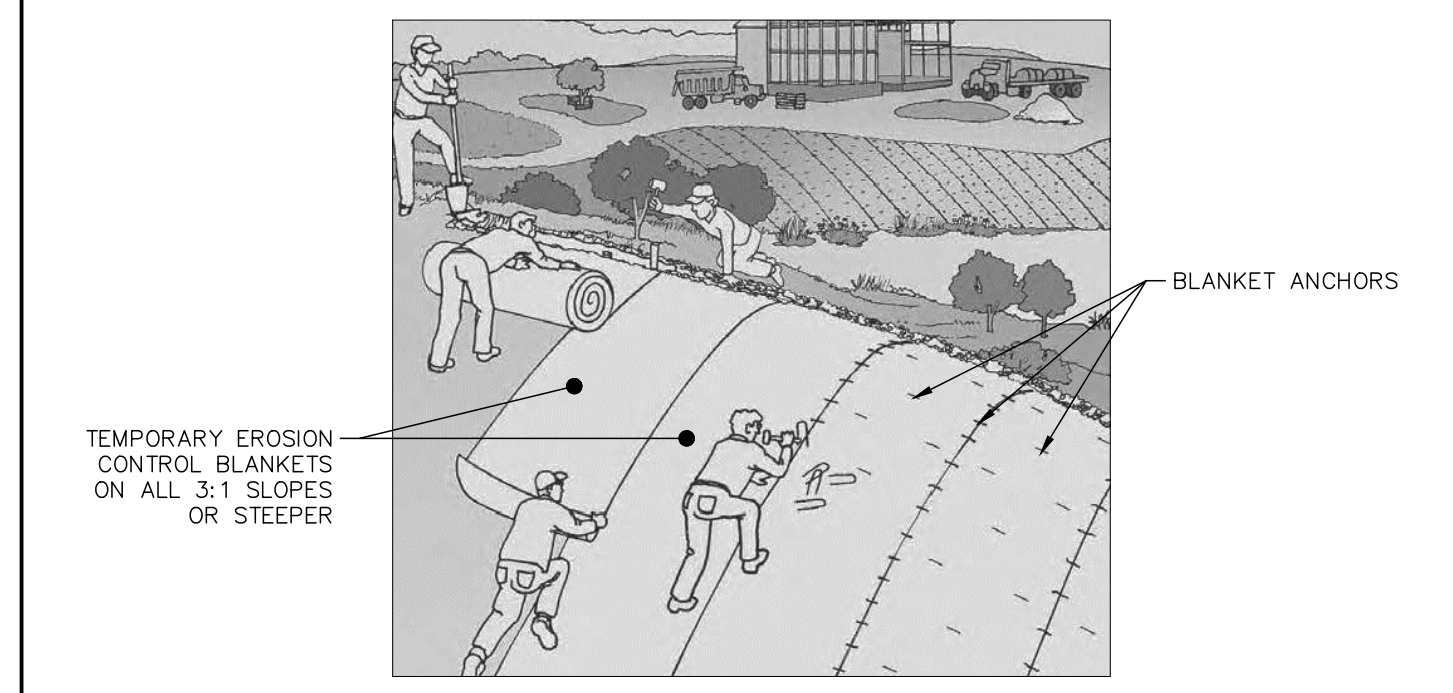


OUTLET

TEMPORARY SEDIMENT TRAP

NOT TO SCALE

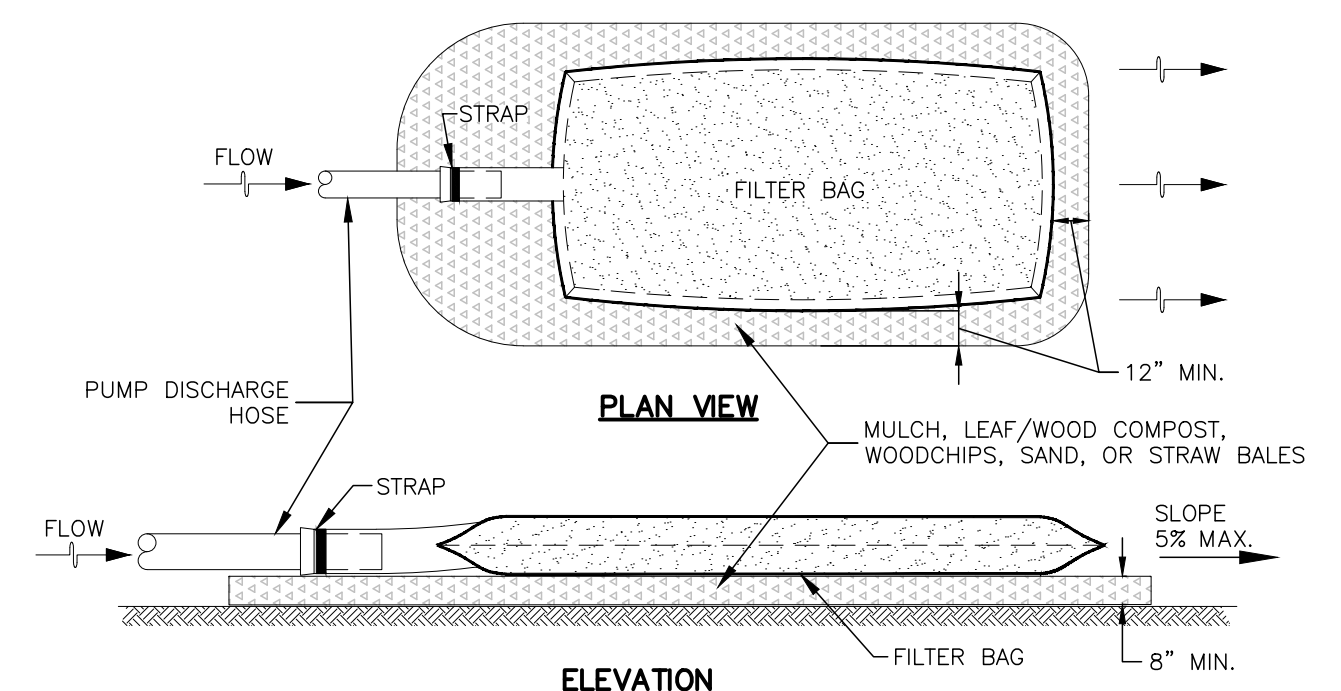
- NOTE:
- TYPICALLY, SEDIMENT TRAPS ARE REQUIRED FOR ANY DISCHARGE POINT THAT SERVES AN AREA BETWEEN 2 AND 5 DISTURBED ACRES OF LAND. ALL TEMPORARY SEDIMENT TRAPS SHALL BE DESIGNED IN CONFORMANCE WITH THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL". GENERALLY, TEMPORARY SEDIMENT TRAPS SHALL BE SIZED TO PROVIDE A MINIMUM OF 154 CUBIC YARDS OF WATER STORAGE PER ACRE DRAINED. ALL TEMPORARY SEDIMENT TRAPS SHALL BE MAINTAINED TO ASSURE EFFICIENT OPERATION UNTIL THE CONTRIBUTING AREA IS COMPLETELY STABILIZED. TEMPORARY SEDIMENT TRAPS MAY BE RELOCATED DURING CONSTRUCTION TO ACCOMMODATE PHASING. CONTRACTOR SHALL REVIEW LOCATIONS OF TEMPORARY SEDIMENT TRAPS WITH DESIGN ENGINEER PRIOR TO INSTALLATION. NO TEMPORARY SEDIMENT TRAP SHALL HAVE MORE THAN 5 ACRES OF DISTURBED LAND CONTRIBUTING TO IT.



EROSION CONTROL BLANKET DETAIL

NOT TO SCALE

- NOTES:
- CONTRACTOR SHALL PREPARE SURFACE, REMOVE PROTRUDING OBJECTS AND INSTALL TEMPORARY EROSION CONTROL BLANKETS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
 - CONTRACTOR SHALL ENSURE THE ORIENTATION AND ANCHORING OF THE BLANKET IS APPROPRIATE FOR THE SITE.
 - CONTRACTOR SHALL INSPECT THE TEMPORARY EROSION CONTROL BLANKET AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH RAINFALL OF 0.5 INCHES OR MORE. IF WASHOUT OR BREAKOUT OCCURS, CONTRACTOR SHALL RE-INSTALL THE BLANKET AFTER REGRADING AND RE-SEEDING THE AREA.
 - ALL EROSION CONTROL BLANKETS SHALL CONSIST OF BIODEGRADABLE MATERIALS.



ELEVATION

CONSTRUCTION SPECIFICATIONS

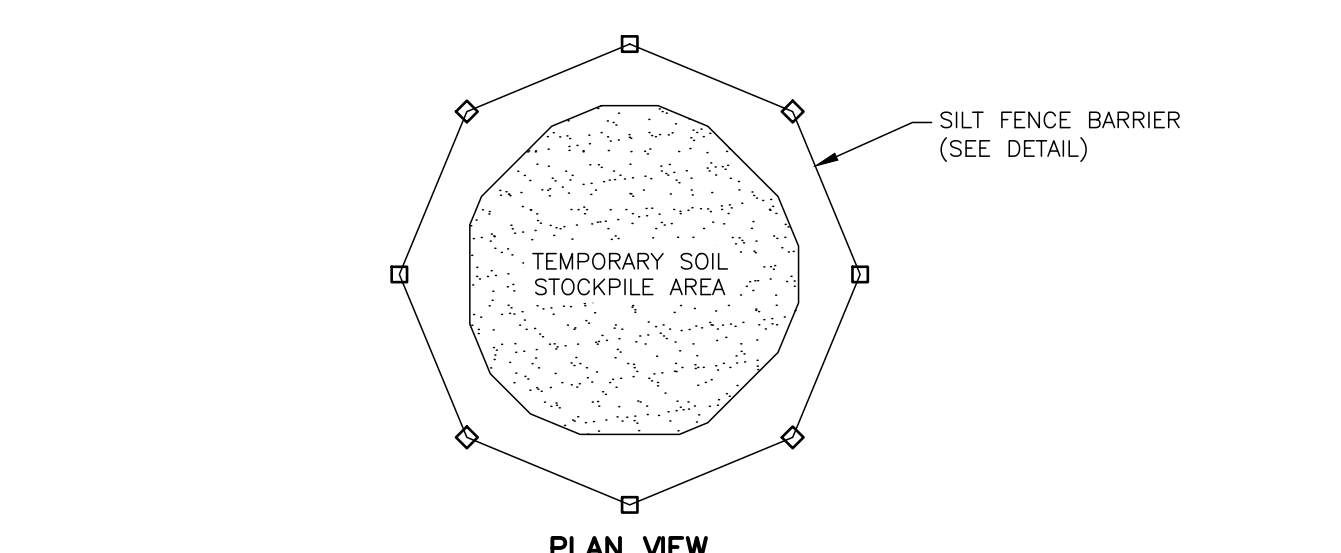
- TIGHTLY SEAL SLEEVE AROUND THE PUMP DISCHARGE HOSE WITH A STRAP OR SIMILAR DEVICE.
- PLACE FILTER BAG ON SUITABLE BASE (E.G. MULCH, LEAF/WOOD COMPOST, WOODCHIPS, SAND, OR STRAW BALES) LOCATED ON A LEVEL OR 5% MAXIMUM SLOPING SURFACE. DISCHARGE TO A STABILIZED AREA. EXTEND BASE A MINIMUM OF 12 INCHES FROM EDGES OF BAG.
- CONTROL PUMPING RATE TO PREVENT EXCESSIVE PRESSURE WITHIN THE FILTER BAG IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS. AS THE BAG FILLS WITH SEDIMENT, REDUCE PUMPING RATE.
- REMOVE AND PROPERLY DISPOSE OF FILTER BAG UPON COMPLETION OF PUMPING OPERATIONS OR AFTER BAG HAS REACHED CAPACITY, WHICHEVER OCCURS FIRST. SPREAD THE DEWATERED SEDIMENT FROM THE BAG IN AN APPROVED UPLAND AREA AND STABILIZE WITH SEED AND MULCH BY THE END OF THE WORK DAY. RESTORE THE SURFACE AREA BENEATH THE BAG TO ORIGINAL CONDITION UPON REMOVAL OF THE DEVICE.
- USE NONWOVEN GEOTEXTILE WITH DOUBLE STITCHED SEAMS USING HIGH STRENGTH THREAD. SIZE SLEEVE TO ACCOMMODATE A MAXIMUM 4 INCH DIAMETER PUMP DISCHARGE HOSE. THE BAG MUST BE MANUFACTURED FROM A NONWOVEN GEOTEXTILE THAT MEETS OR EXCEEDS MINIMUM AVERAGE ROLL VALUES (MARV) FOR THE FOLLOWING:

GRAB TENSILE	250 LB	ASTM D-4632
PUNCTURE	150 LB	ASTM D-4833
FLOW RATE	70 GAL/MIN/FT ²	ASTM D-4491
PERMITTIVITY (SEC ⁻¹)	1.2 SEC ⁻¹	ASTM D-4491
UV RESISTANCE	70% STRENGTH @ 500 HOURS	ASTM D-4355
APPARENT OPENING SIZE (AOS)	0.15-0.18 MM	ASTM D-4751
SEAM STRENGTH	90%	ASTM D-4632

- REPLACE FILTER BAG IF BAG CLOGS OR HAS RIPS, TEARS, OR PUNCTURES. DURING OPERATION KEEP CONNECTION BETWEEN PUMP HOSE AND FILTER BAG WATER TIGHT. REPLACE BEDDING IF IT BECOMES DISPLACED.
- FILTER BAG SHALL BE PLACED NO CLOSER THAN 25' TO ANY WETLAND AREA OR DOWNGRADE PROPERTY LINE.
- THIS DETAIL ONLY REQUIRED FOR DEWATERING DURING CONSTRUCTION IF SHALLOW GROUNDWATER IS ENCOUNTERED.

FILTER BAG DETAIL

NOT TO SCALE



PLAN VIEW

- NOTES:
- APPLY TEMPORARY SEED MIXTURE TO PILES IF THEY WILL NOT BE DISTURBED FOR MORE THAN 30 DAYS.
 - ALL SILT FENCE SHALL BE INSPECTED PERIODICALLY AND AFTER ALL RAINFALL EVENTS. REPAIRS SHALL BE MADE IMMEDIATELY TO KEEP THE SILTATION CONTROL BARRIER EFFECTIVE.

STOCKPILE SILTATION CONTROL DETAIL

NOT TO SCALE

ROLLMAX™
ROLLED EROSION CONTROL

Specification Sheet
BioNet® 575BN™ Erosion Control Blanket

DESCRIPTION
The short-term single net erosion control blanket shall be a machine-produced mat of 100% agricultural straw with a functional longevity of up to 12 months. (NOTE: functional longevity may vary depending upon climatic conditions, soil, geographical location, and elevation). The blanket shall be of consistent thickness with the straw evenly distributed over the entire area of the mat. The blanket shall be covered on the top side with a 100% biodegradable woven natural organic fiber net. The netting shall consist of machine directional strands formed from two interwoven yarns with across directional strands interwoven through the twisted machine strands (commonly referred to as a leno weave) to form approximate 0.50 x 1.0 in. (1.27 x 2.54 cm) mesh. The blanket shall be sewn together on 1.50 inch (3.81 cm) centers with degradable thread. The blanket shall be manufactured with a colored thread stitched along both outer edges (approximately 2.5 inches (6.35 cm) from the edge) as an overlap guide for adjacent mats.

The 575BN shall meet Type 2 specification requirements established by the Erosion Control Technology Council (ECTC) and Federal Highway Administration's (FHWA) FP-03 Section 713.17

Index Property	Test Method	Typical
Thickness	ASTM D6525	0.23 in (7 mm)
Resiliency	ECTC Guidelines	81.4%
Water Absorbency	ASTM D1017	440%
Mass/Unit Area	ASTM D6475	9.52 oz/sy (310 g/sqm)
Swell	ECTC Guidelines	15.7%
Smolder Resistance	ECTC Guidelines	Yes
Stiffness	ASTM D1388	6.92 oz-in
Light Penetration	ASTM D6567	9.1%
Tensile Strength - MD	ASTM D6818	146.4 lbs/ft (2.17 kN/m)
Elongation - MD	ASTM D6818	16.9%
Tensile Strength - TD	ASTM D6818	109.2 lbs/ft (1.62 kN/m)
Elongation - TD	ASTM D6818	14.3%
Biomass Improvement	ASTM D7322	398%

Slope Design Data: C Factors

Slope Length (L)	C1	C2	C3
≤ 20 ft (6 m)	0.029	N/A	N/A
20-50 ft	0.11	N/A	N/A
≤ 50 ft (15.2 m)	0.19	N/A	N/A

Roughness Coefficients - Unveg.

Flow Depth	Manning's n
≤ 0.50 ft (0.15 m)	0.055
0.50 - 2.0 ft	0.085-0.021
≥ 2.0 ft (0.60 m)	0.021

Design Permissible Shear Stress

Unvegetated Shear Stress	Unvegetated Velocity
1.60 psf (0.6 Pa)	5.00 fps (1.52 m/s)

Western Green
4609 E. Bloomville-Harmony Rd.
Bloomville, IN 47725
westerngreen.com
800-772-2040

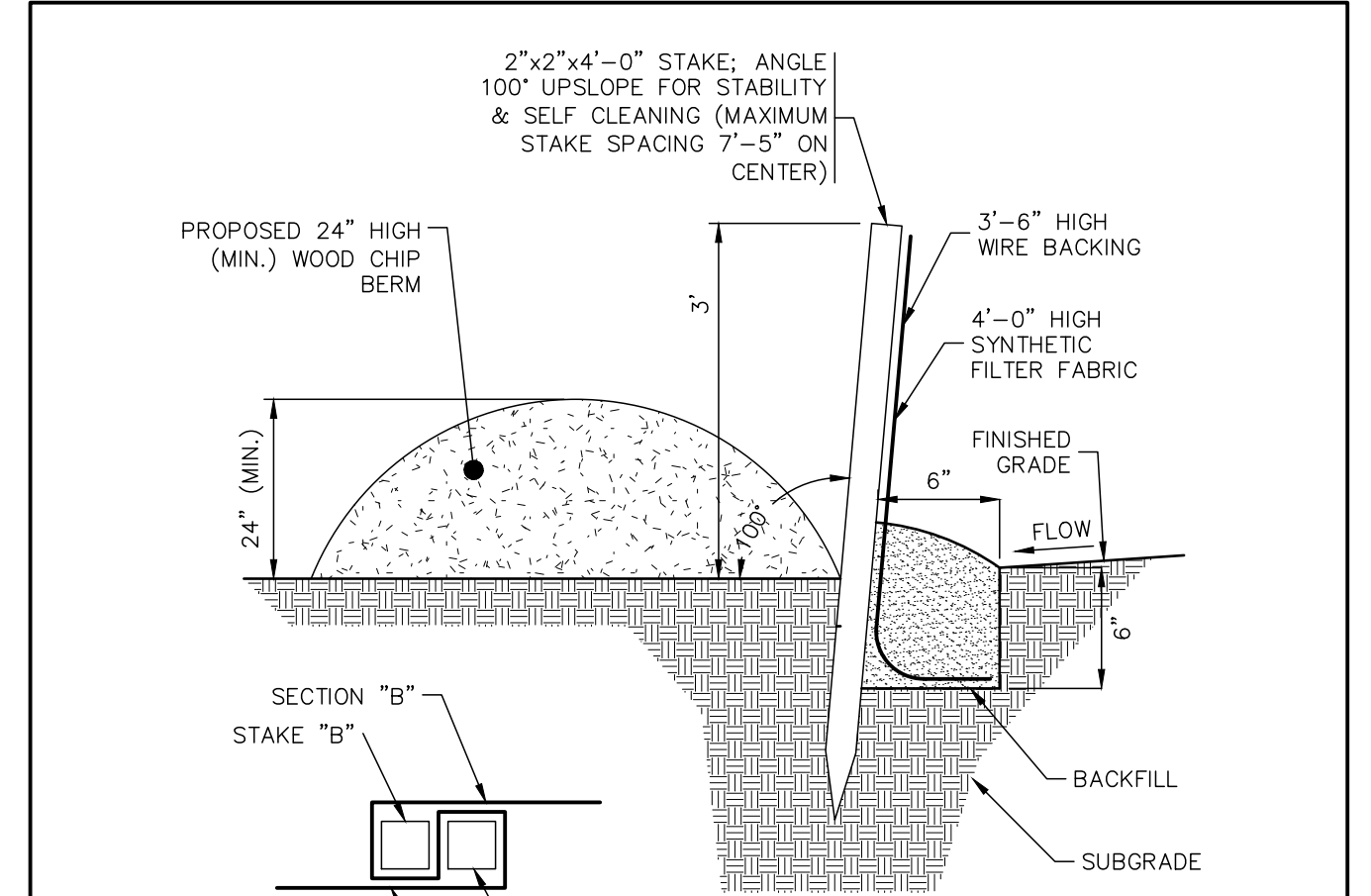
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EC_NMG_575BN_3.20

- NOTES:
- EROSION CONTROL BLANKETS SHALL CONSIST OF BIODEGRADABLE MATERIALS.
 - TEMPORARY EROSION CONTROL BLANKETS SHALL BE PROVIDED ON ALL 3:1 SLOPES OR STEEPER.
 - CONTRACTOR SHALL PREPARE SURFACE, REMOVE PROTRUDING OBJECTS AND INSTALL TEMPORARY EROSION CONTROL BLANKETS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
 - CONTRACTOR SHALL ENSURE THE ORIENTATION AND ANCHORING OF THE BLANKET IS APPROPRIATE FOR THE SITE.
 - CONTRACTOR SHALL INSPECT THE TEMPORARY EROSION CONTROL BLANKET AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH RAINFALL OF 0.5 INCHES OR MORE. IF WASHOUT OR BREAKOUT OCCURS, CONTRACTOR SHALL RE-INSTALL THE BLANKET AFTER REGRADING AND RE-SEEDING THE AREA.

EROSION CONTROL BLANKET DETAIL

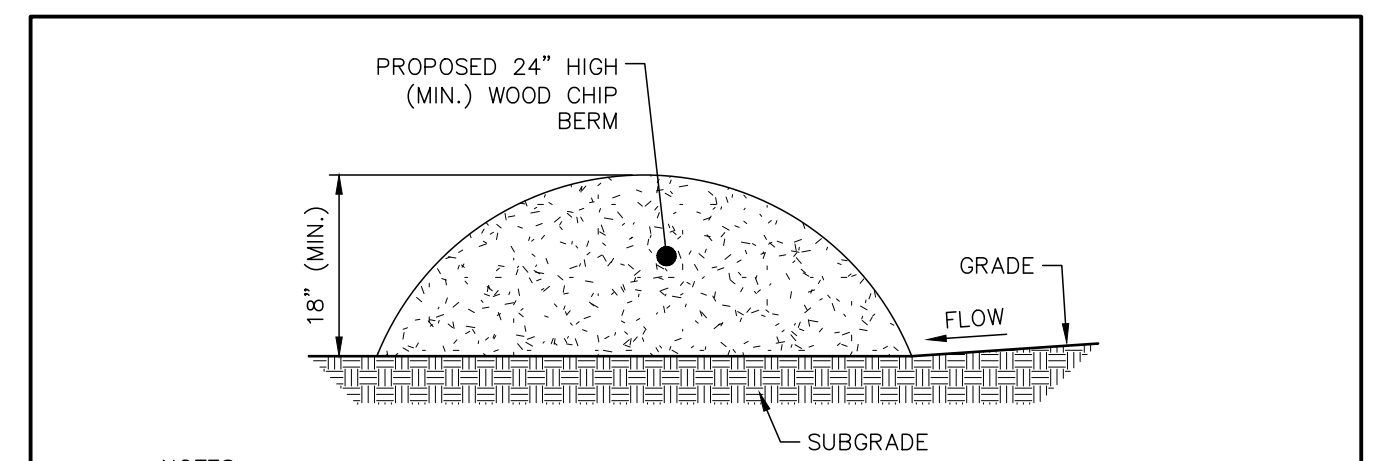
NOT TO SCALE



SILT FENCE BARRIER WITH WOOD CHIP BERM DETAIL

NOT TO SCALE

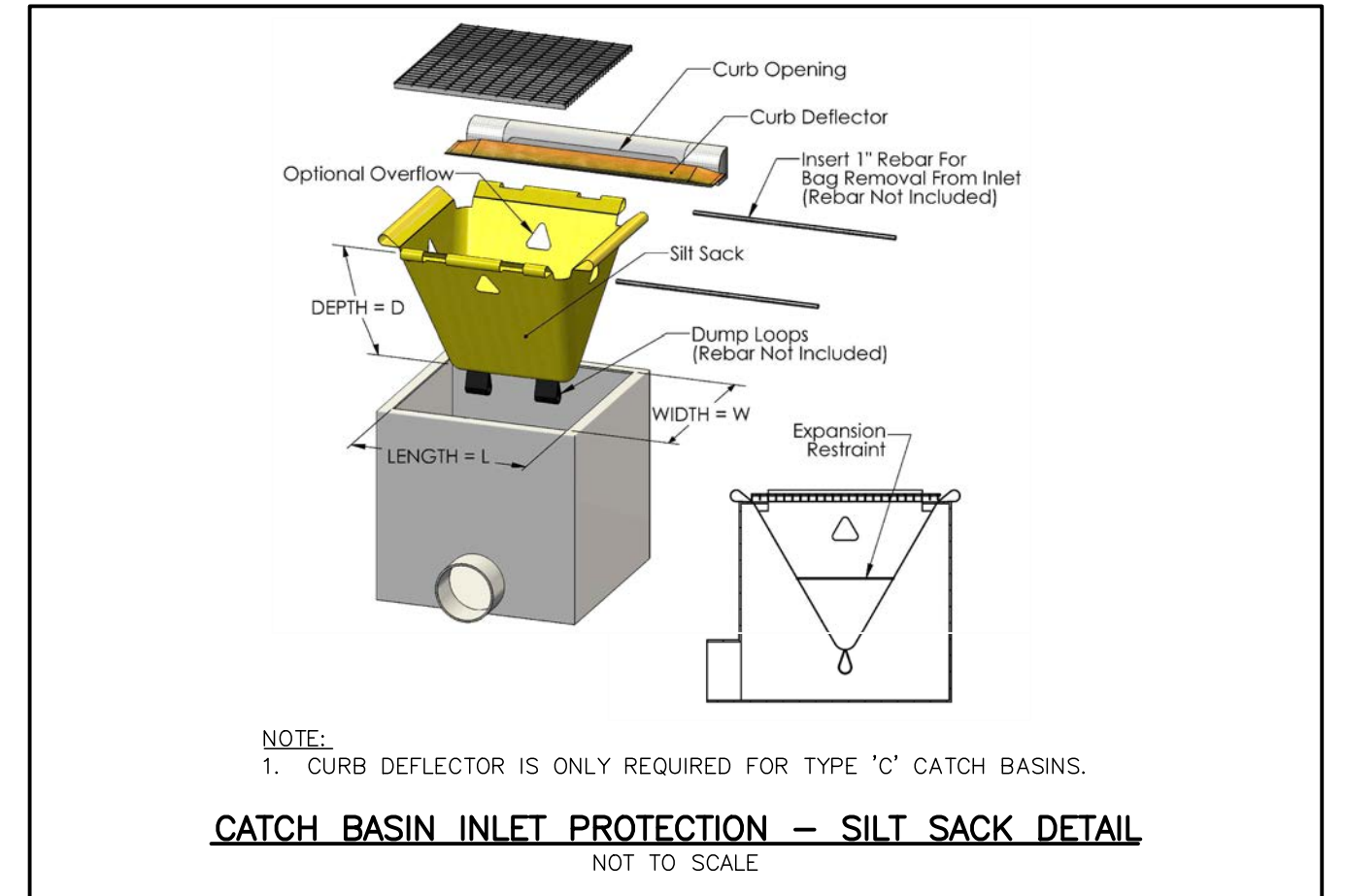
- NOTES:
- ALL SILT FENCE SHALL BE INSPECTED PERIODICALLY AND AFTER ALL RAINFALL EVENTS. REPAIRS SHALL BE MADE IMMEDIATELY TO KEEP THE SILTATION CONTROL BARRIER EFFECTIVE.



WOOD CHIP BERM DETAIL

NOT TO SCALE

- NOTES:
- ALL SILT FENCE SHALL BE INSPECTED PERIODICALLY AND AFTER ALL RAINFALL EVENTS. REPAIRS SHALL BE MADE IMMEDIATELY TO KEEP THE SILTATION CONTROL BARRIER EFFECTIVE.
 - WOOD CHIP BERM SHALL BE LEFT IN PLACE AFTER CONSTRUCTION.



CATCH BASIN INLET PROTECTION - SILT SACK DETAIL

NOT TO SCALE

- NOTE:
- CURB DEFLECTOR IS ONLY REQUIRED FOR TYPE 'C' CATCH BASINS.

FOR REVIEW - NOT FOR CONSTRUCTION

Approved by the Old Saybrook Zoning Commission

Title _____ Signature _____ Date _____

PLAN PREPARED BY:
INDIGO LAND DESIGN, LLC
JOSEPH WREN, P.E.
CT REG. NO. 21090
100 E. MAIN STREET, 2ND FLOOR
OLD SAYBROOK, CT 06475
PHONE: (860) 388-9343
FAX: (860) 388-9343
WEB: INDIGO-LAND.COM

THE EMBOSSED SEAL OF
THE REGISTERED PROFESSIONAL ENGINEER
APPLIED HERE FOR THIS
MAP TO BE VALID

#	DATE	REVISIONS PER TOWN ENGINEER'S COMMENTS, WISC.	DESCRIPTION	BY
1	5/14/2024			

E&S CONTROL DETAILS
PREPARED FOR ORTHO SAYBROOK, LLC
52 SPENCER PLAIN ROAD (CT ROUTE 166)
(MAP 25 LOT 27)
OLD SAYBROOK, CONNECTICUT

DATE:
APRIL 4, 2024

SCALE:
NOT TO SCALE

DRAWN BY:
RG

CHECKED BY:
JW

DWG. NO.:
ES-2

SHEET NO.:
12 of 13

JOB NO.:
2023-1030

Permeability of Soils using Compaction Permeameter

Date: 9/23/2022
Project: Indigo Land Design
CLA Project #: 7154
Source: Spencer Plains Road, Old Saybrook, Ct.
Material: On-site material (Test Pits)
Specification: 100 lbs/cu ft Compaction on samples.

Sample #1: Test Pit # Sample A
Permeability: 2.22 x 10⁻⁴ cm/sec or .62 ft/day
Sample #1: Test Pit # Sample B
Permeability: 1.85 x 10⁻⁴ cm/sec or .52 ft/day
Sample #1: Sample B2
Permeability: 2.78 x 10⁻⁴ cm/sec or .78 ft/day

Thomas Cummings 28 SEP 22
PE No. 9606



SIEVE ANALYSIS

Date: 9/1/2022
Project: Spencer Plains Road, Old Saybrook, Ct.
CLA Project #: 7154
Source: Old Saybrook, Ct.
Material: On-site material (Test Pits)
Specification: N/A
Sample Designation: Test Pit # Sample A

Sieve Size	% Passing
3/4 in	100
1/2 in	99.9
#4	99.1
#10	94.1
#20	83.2
#40	76.3
#60	46.1
#100	34.5
#200	23.3

Thomas Cummings 28 SEP 22
PE No. 9606

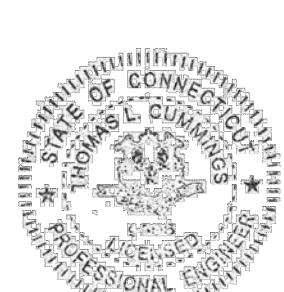


SIEVE ANALYSIS

Date: 9/19/2022
Project: Spencer Plains Road, Old Saybrook, Ct.
CLA Project #: 7154
Source: Old Saybrook, Ct.
Material: On-site material (Test Pits)
Specification: N/A
Sample Designation: Test Pit # Sample B

Sieve Size	% Passing
3/4 in	98.1
1/2 in	93.3
#4	92.2
#10	88.1
#20	80.1
#40	64.0
#60	47.7
#100	36.7
#200	25.2

Thomas Cummings 28 SEP 22
PE No. 9606



SIEVE ANALYSIS

Date: 9/19/2022
Project: Spencer Plains Road, Old Saybrook, Ct.
CLA Project #: 7154
Source: Old Saybrook, Ct.
Material: On-site material (Test Pits)
Specification: N/A
Sample Designation: Test Pit # Sample B2

Sieve Size	% Passing
3/4 in	94.5
1/2 in	90.8
#4	83.2
#10	65.9
#20	58.7
#40	45.9
#60	31.3
#100	20.5
#200	10.5

Thomas Cummings 28 SEP 22
PE No. 9606



MOISTURE DENSITY (4" Mold)										
CLIENT:	Indigo Land Design			DATE:	9/19/2022					
PROJECT:	52 Spencer Plains Road, Old Saybrook, Ct.			BY:	JB					
SAMPLE:	TP #A, #B & #B2			SOURCE:	Test Pits					
SAMPLING METHOD:	Sampled on site			SPEC:	N/A					
SAMPLE #1	Sample + Pan - Pan Weight + Sample									
wet					0.390					
dry					0.179	MC			11.73	
wet					0.021				11.7	=MC
					Net Weight		6.950			
	4.126	1.678	1/0.033 =	99.79	2.2 =	111.73	11 MC =		100.0	
	Full Mold Weight - Mold = Net Weight									
SAMPLE #2	Sample + Pan - Pan Weight + Sample									
wet					0.200					
dry					0.180	MC			11.11	
wet					0.020				11.1	=MC
					Net Weight		6.950			
	4.126	1.668	1/0.033 =	99.48	2.2 =	111.07	11 MC =		100.0	
	Full Mold Weight - Mold = Net Weight									
SAMPLE #3	Sample + Pan - Pan Weight + Sample									
wet					0.200					
dry					0.186	MC			7.53	
wet					0.014				7.5	=MC
					Net Weight		6.950			
	4.126	1.613	1/0.033 =	99.88	2.2 =	107.53	11 MC =		100.0	
	Full Mold Weight - Mold = Net Weight									
SAMPLE #4	Sample + Pan - Pan Weight + Sample									
wet					0.200					
dry					0.180	MC			#DIV/0!	
wet					0.200				#DIV/0!	=MC
					Net Weight		6.950			
	4.126	1.158	1/0.033 =	108.93	2.2 =	275.07	11 MC =		#DIV/0!	
	Full Mold Weight - Mold = Net Weight									
SAMPLE #5	Sample + Pan - Pan Weight + Sample									
wet					0.200					
dry					0.200	MC			#DIV/0!	
wet					0.200				#DIV/0!	=MC
					Net Weight		6.950			
	4.126	1.186	1/0.033 =	109.00	2.2 =	273.07	11 MC =		#DIV/0!	
	Full Mold Weight - Mold = Net Weight									

M:\0000710017154 52 Spencer Plains Rd Material Testing\7154 - Spencer Plains Road - Moisture Density\Mold 9-1-2022.xls

SIEVE ANALYSIS							
CLIENT:	Indigo Land Design			DATE:	9/1/2022		
PROJECT:	52 Spencer Plains Road, Old Saybrook, Ct.			BY:	JB		
SOURCE:	Test Pits			SAMPLE:	TP#A		
SAMPLING METHOD:	Sampled On-site			SPEC:	N/A		
	Sieve	Gross Weight	Sieve Weight	Net Weight	% Retained	% Pass	Spec
	3/4 in	0		0.0	0.0	100.0	
	1/4 in	0.4		0.1	99.9		
	#4	5.2		0.9	99.1		
	#10	34.2		5.9	94.1		
	#20	96.6		16.8	83.2		
	#40	136.6		23.7	76.3		
	#60	310.8		53.9	46.1		
	#100	377.4		65.5	34.5		
	#200	442		76.7	23.3		
		576.4					

M:\0000710017154 52 Spencer Plains Rd Material Testing\7154 - Spencer Plains Road - TP #A, 9-1-2022.xls

SIEVE ANALYSIS							
CLIENT:	Indigo Land Design			DATE:	9/19/2022		
PROJECT:	52 Spencer Plains Road, Old Saybrook, Ct.			BY:	JB		
SOURCE:	Test Pits			SAMPLE:	TP#B		
SAMPLING METHOD:	Sampled On-site			SPEC:	N/A		
	Sieve	Gross Weight	Sieve Weight	Net Weight	% Retained	% Pass	Spec
	3/4 in	10.2		1.9	98.1		
	1/4 in	35.2		6.7	93.3		
	#4	41.2		7.8	92.2		
	#10	63		11.9	88.1		
	#20	104.8		19.9	80.1		
	#40	189.6		36.0	64.0		
	#60	275.6		52.3	47.7		
	#100	333.8		63.3	36.7		
	#200	394.4		74.8	25.2		
		527.2					

M:\0000710017154 52 Spencer Plains Rd Material Testing\7154 - Spencer Plains Road - TP #B, 9-19-2022.xls

SIEVE ANALYSIS							
CLIENT:	Indigo Land Design			DATE:	9/19/2022		
PROJECT:	52 Spencer Plains Road, Old Saybrook, Ct.			BY:	JB		
SOURCE:	Test Pits			SAMPLE:	TP#B2		
SAMPLING METHOD:	Sampled On-site			SPEC:	N/A		
	Sieve	Gross Weight	Sieve Weight	Net Weight	% Retained	% Pass	Spec
	3/4 in	28		5.5	94.5		
	1/4 in	46.6		9.2	90.8		
	#4	85.6		16.8	83.2		
	#10	173.4		34.1	65.9		
	#20	210.2		41.3	58.7		
	#40	275		54.1	45.9		
	#60	349.2		68.7	31.3		
	#100	404.2		79.5	20.5		
	#200	453.6		89.2	10.5		
		508.6					

M:\0000710017154 52 Spencer Plains Rd Material Testing\7154 - Spencer Plains Road - TP #B2, 9-19-2022.xls



THE EMBOSSED SEAL OF REGISTERED PROFESSIONAL ENGINEERS SHALL BE AFFIXED HERE FOR THIS MAP TO BE VALID

#	DATE	DESCRIPTION	BY
1	5/14/2024	REVISIONS PER TOWN ENGINEER'S COMMENTS, MISC.	RG

SOIL SAMPLE DATA
PREPARED FOR ORTHO SAYBROOK, LLC
52 SPENCER PLAIN ROAD (CT ROUTE 166)
(MAP 25 LOT 27)
OLD SAYBROOK, CONNECTICUT

DATE: APRIL 4, 2024
SCALE: NOT TO SCALE
DRAWN BY: RG
CHECKED BY: JW
DWG. NO.: SSD-1
SHEET NO.: 13 of 13
JOB NO.: 2023-1030

FOR REVIEW - NOT FOR CONSTRUCTION

Approved by the Old Saybrook Zoning Commission
Title _____ Signature _____ Date _____