

FRANKLIN DRIVE MULTI-FAMILY PARCEL

FRANKLIN DRIVE
WINDHAM, ME

APPLICANT:

NEW GEN ESTATES, LLC

50 MAINE MALL ROAD
SOUTH PORTLAND, ME 04106

ENGINEER/SURVEYOR/
LANDSCAPE ARCHITECT



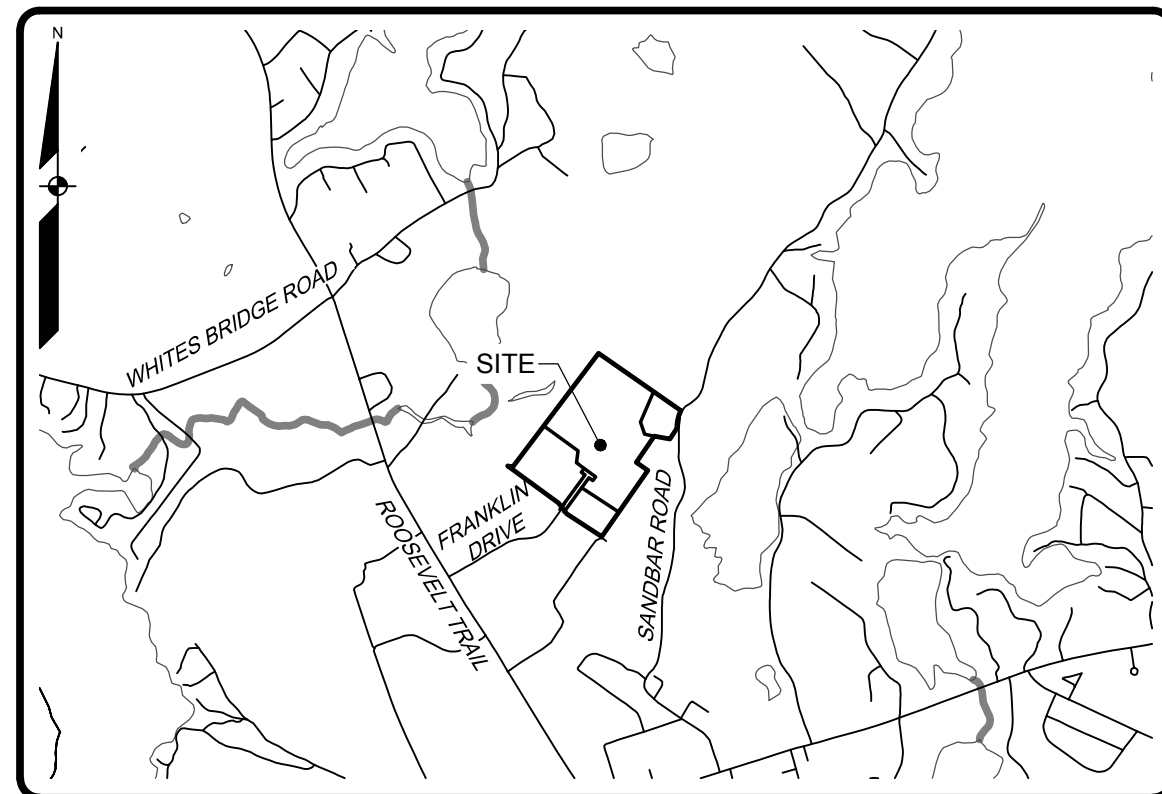
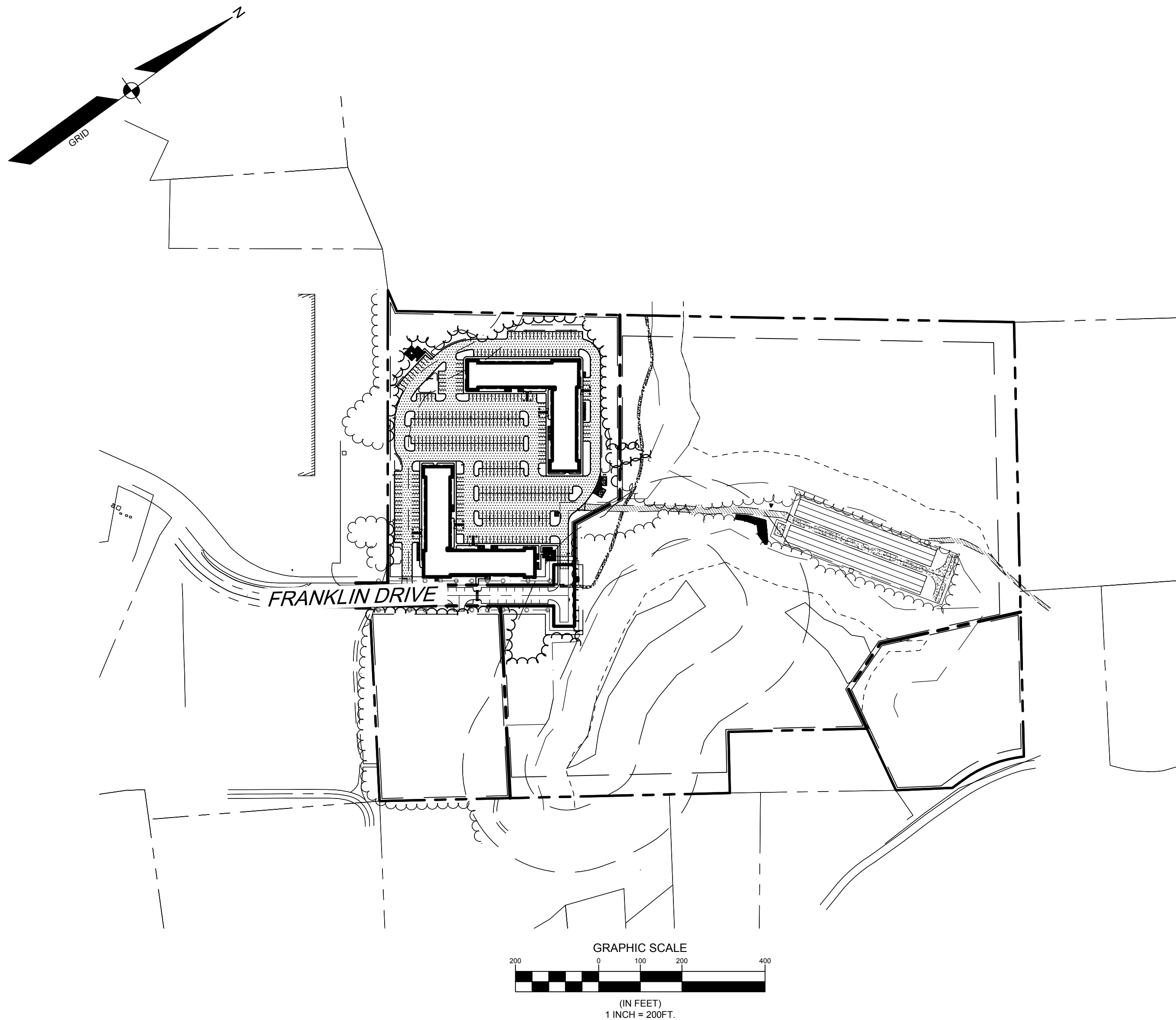
WWW.SEBAGOTECHNICS.COM

75 John Roberts Rd.
Suite 4A
South Portland, ME 04106
Tel. 207-200-2100

PROJECT ARCHITECT

FITTANTE ARCHITECTURE P.C

P.O. BOX 3084
NIAGARA FALLS, NY 14304



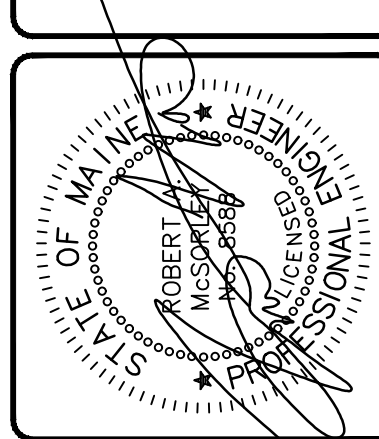
LOCATION MAP

NTS

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PROGRESS
PRINT



| | | | |
|----|------|------------|---|
| A. | RAM | 06/23/2025 | LOCAL SUBMISSION TO THE TOWN OF WINDHAM |
| | REV: | DATE: | STATUS: |



COVER SHEET
OF:
FRANKLIN DRIVE MULTI-FAMILY PARCEL
FRANKLIN DRIVE
WINDHAM, ME

FOR:
NEW GEN ESTATES, LLC
650 MAINE MALL ROAD
SOUTH PORTLAND, ME 04106

| | |
|----------|------------|
| DESIGNED | KPW |
| DRAWN | EPR |
| CHECKED | RAM |
| DATE | 02/13/2025 |
| SCALE | 1" = 200' |
| PROJECT | 230411-01 |

SHEET G-001

| EXISTING | PROPOSED |
|--|----------------------------|
| PROPERTY LINE/R.O.W. | PROPERTY LINE/R.O.W. |
| ABUTMENT LINE/R.O.W. | ABUTMENT LINE/R.O.W. |
| DEED LINE/R.O.W. | DEED LINE/R.O.W. |
| TIE LINE | TIE LINE |
| SETBACK | SETBACK |
| EASEMENT | EASEMENT |
| BUFFER | BUFFER |
| FLOODPLAIN | FLOODPLAIN |
| FLOODWAY | FLOODWAY |
| CENTERLINE | CENTERLINE |
| MONUMENT | MONUMENT |
| IRON PIPE/ROD | IRON PIPE/ROD |
| DRILL HOLE | DRILL HOLE |
| DEED CALL | DEED CALL |
| C1/L1 | C1/L1 |
| C1/L1 | C1/L1 |
| CURVE LINE NO. | CURVE LINE NO. |
| SOILS | SOILS |
| ZONE LINE | ZONE LINE |
| ZONE LINE ON PL | ZONE LINE ON PL |
| BENCHMARK DESCRIPTION WITH ELEVATION | BENCHMARK |
| SURVEY CONTROL | SURVEY CONTROL |
| TP-1 | TP-1 |
| TEST PIT | TEST PIT |
| MW-1 | MW-1 |
| MONITORING WELL | MONITORING WELL |
| B-1 | B-1 |
| BORING | BORING |
| BUILDING | BUILDING |
| DECK/STEPS/ OVERHANG | DECK/STEPS/ OVERHANG |
| EDGE WETLAND | EDGE WETLAND |
| WETLANDS | WETLANDS |
| UPLANDS | UPLANDS |
| STREAM | STREAM |
| LEDGE | LEDGE |
| EDGE PAVEMENT | EDGE PAVEMENT |
| PAVEMENT SAWCUT | PAVEMENT SAWCUT |
| EDGE CONCRETE | EDGE CONCRETE |
| PAVEMENT PAINT | PAVEMENT PAINT |
| EDGE GRAVEL | EDGE GRAVEL |
| CURB LINE | CURB LINE |
| EDGE OF WATER | EDGE OF WATER |
| TREELINE | TREELINE |
| ---120---118--- X120.00 | ---120--- +120.00 |
| CONTOURS | CONTOURS |
| SPOT GRADE | SPOT GRADE |
| CHAIN LINK FENCE | CHAIN LINK FENCE |
| BARB WIRE FENCE | BARB WIRE FENCE |
| STOCKADE FENCE | STOCKADE FENCE |
| GUARD RAIL | GUARD RAIL |
| STONE WALL | STONE WALL |
| RETAINING WALL | RETAINING WALL |
| DECIDUOUS TREE | DECIDUOUS TREE |
| CONIFEROUS TREE | CONIFEROUS TREE |
| MULCH LINE | MULCH LINE |
| BOLLARD | BOLLARD |
| SIGN | SIGN |
| RAILROAD | RAILROAD |
| GAS | GAS |
| GAS GATE VALVE | GAS GATE VALVE |
| GAS METER | GAS METER |
| GAS MANHOLE | GAS MANHOLE |
| WATER | WATER |
| WATER GATE VALVE | WATER GATE VALVE |
| WATER SHUT OFF | WATER SHUT OFF |
| HYDRANT | HYDRANT |
| WATER MANHOLE | WATER MANHOLE |
| WELL | WELL |
| SANITARY SEWER | SANITARY SEWER |
| FM FORCE MAIN | FM FORCE MAIN |
| SANITARY MANHOLE | SANITARY MANHOLE |
| SD STORM DRAIN | SD STORM DRAIN |
| UD UNDER DRAIN | UD UNDER DRAIN |
| DRAINAGE MANHOLE | DRAINAGE MANHOLE |
| CATCH BASIN | CATCH BASIN |
| OHU OVERHEAD UTILITY | OHU OVERHEAD UTILITY |
| UGU UNDERGROUND UTILITY | UGU UNDERGROUND UTILITY |
| T TRANSFORMER PAD | T TRANSFORMER PAD |
| E ELECTRICAL MANHOLE | E ELECTRICAL MANHOLE |
| E ELECTRIC METER | E ELECTRIC METER |
| H HVAC UNIT | H HVAC UNIT |
| T TELEPHONE MANHOLE | T TELEPHONE MANHOLE |
| LIGHT POLE | LIGHT POLE |
| UTILITY POLE | UTILITY POLE |
| GUY WIRE | GUY WIRE |
| DRAINAGE DITCH | DRAINAGE DITCH |
| EROSION CONTROL BLANKET | EROSION CONTROL BLANKET |
| FILTER BARRIER | FILTER BARRIER |
| RIPPRAP | RIPPRAP |
| CHECK DAM | CHECK DAM |
| INLET PROTECTION | INLET PROTECTION |
| BOULDER | BOULDER |

THE RECORD OWNER OF THE PARCEL IS NEW GEN ESTATES BY DEED DATED JANUARY 2, 2024 AND RECORDED AT THE CUMBERLAND COUNTY REGISTRY OF DEEDS (CCRD) IN BOOK 40566, PAGE 273.

2. THE PROPERTY IS SHOWN AS BLOCK 26, LOT 2, UNIT A-02 ON THE TOWN OF WINDHAM TAX MAP 18 AND IS LOCATED IN THE COMMERCIAL 1 (C-1) DISTRICT.

3. TOTAL AREA OF PARCEL IS APPROXIMATELY 7.88 ACRES PER PLAN REFERENCE 5A.

4. BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED UPON PLAN REFERENCE 5A. FIELD WORK WAS PERFORMED BY SEBAGO TECHNICS, INC. IN NOVEMBER OF 2024 TO VERIFY THE BOUNDARY AND TOPOGRAPHIC INFORMATION.

5. PLAN REFERENCES:

A. "EXISTING CONDITIONS LAND OF JLB WINDHAM LLC" DATED NOVEMBER 2022 SURVEYED BY BH2M AND PLAN IS UNRECORDED.

B. "AMENDED SUBDIVISION PLAN THE WINDHAM MALL" DATED APRIL 6, 2005 BY SURVEY, INC. AND RECORDED AT THE CCRD IN PLAN BOOK 205, PAGE 254.

6. BASIS OF BEARING IS GRID NORTH, MAINE STATE PLANE COORDINATE SYSTEM, WEST ZONE 1802-NA03, GEOID18 IN INTERNATIONAL FEET, PLAN REFERENCE 5A.

7. BENCHMARK:

BM-1 X-CHISEL IN HYDRANT, BONNET BOUL. ELEVATION: 317.34 (NAVD83)

BM-2 BOX CUT IN CONCRETE LIGHT POLE NORTHERLY CORNER ELEVATION: 315.17 (NAVD83)

8. UTILITY INFORMATION DEPICTED HEREON, UNLESS OTHERWISE NOTED, IS OF QUALITY LEVEL D PER AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) STANDARD CHASE 38-02. UTILITIES DEPICTED HEREON MAY NOT NECESSARILY REPRESENT ALL EXISTING UTILITIES. CONTRACTORS AND/OR DESIGNERS NEED TO CONTACT DIG-SAFE SYSTEMS, INC. (1-888-DIG-SAFE) AND FIELD VERIFY EXISTING UTILITIES WITHIN THE PROJECT AREA PRIOR TO CONSTRUCTION AND/OR EXCAVATION.

9. THE LOCUS PROPERTY AS DEPICTED HEREON DOES NOT FALL WITHIN A SPECIAL FLOOD HAZARD AREA AS DEPICTED ON THE FLOOD INSURANCE RATE MAP FOR WINDHAM, MAINE, CUMBERLAND COUNTY, PANEL NUMBERS 23005C0477F, 23005C0479F, 23005C0481F, AND 23005C0483F, HAVING AN EFFECTIVE DATE OF JUNE 20, 2024. THE LOCUS FALLS WITHIN AN AREA IDENTIFIED AS ZONE X, AREAS OF MINIMAL FLOODING.

10. WETLAND AREAS SHOWN HEREON WERE DELINEATED BY MARL HAMPTON IN ACCORDANCE WITH THE 1987 ARMY CORPS OF ENGINEERS WETLAND DELINEATION MANUAL AND FIELD LOCATED BY MARL HAMPTON USING CONVENTIONAL SURVEY EQUIPMENT. VERNAL POOLS SHOWN HEREON WERE DELINEATED AND ASSESSED BY FLYCATCHER, LLC.

11. SPACE AND BULK CRITERIA FOR THE COMMERCIAL DISTRICT 1 (C-1) ARE AS FOLLOWS:

| | REQUIRED | PROPOSED |
|--------------------------|-------------------|-------------|
| MINIMUM LOT SIZE: | N/A | N/A |
| NET RESIDENTIAL DENSITY: | N/A | N/A |
| MINIMUM STREET FRONTAGE: | 100 FEET | 543.44 FEET |
| FRONT SETBACK: | 0 FEET TO 20 FEET | 19.40 FEET |
| MINIMUM SIDE SETBACK: | 6 FEET | 85.71 FEET |
| MINIMUM REAR SETBACK: | 6 FEET | 112.07 FEET |
| MAXIMUM BUILDING HEIGHT: | 75 FEET | 67.08 FEET |

* SEE ORDINANCE FOR MORE PARTICULAR INFORMATION.

12. ALL WORK SHALL CONFORM TO THE APPLICABLE CODES AND ORDINANCES.

13. CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIM OR HERSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS AS TO THE COST THEREOF. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIM OR HERSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND CONFIRMING THAT THE WORK MAY BE ADEQUATELY ACCOMPLISHED WITHOUT INTERFERING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

14. CONTRACTOR SHALL NOTIFY ENGINEER OF ALL PRODUCTS OR ITEMS NOTED AS "EXISTING" WHICH ARE NOT FOUND IN THE FIELD.

15. PROVIDE ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND OWNER'S REQUIREMENTS UNLESS SPECIFICALLY OTHERWISE INDICATED OR SHARE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.

16. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE ENGINEER.

17. CONTRACTOR SHALL CLEAN AND REMOVE DEBRIS AND SEDIMENT DEPOSITED ON PUBLIC STRIPS, SIDEWALKS, ADJACENT AREAS, OR OTHER PUBLIC WAYS DUE TO CONSTRUCTION.

18. CONTRACTOR SHALL INCORPORATE PROVISIONS AS NECESSARY IN CONSTRUCTION TO PROTECT EXISTING STRUCTURES, PHYSICAL FEATURES, AND MAINTAIN SITE STABILITY DURING CONSTRUCTION. CONTRACTOR SHALL RESTORE ALL AREAS TO ORIGINAL CONDITION AND AS DIRECTED BY DESIGN DRAWINGS.

19. SITE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO CONSTRUCTION.

20. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH "THE EROSION AND SEDIMENT CONTROL BMP'S" PUBLISHED BY THE BUREAU OF LAND AND WATER QUALITY OF THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION, OCTOBER 2016 OR LATEST EDITION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO POSSESS A COPY OF THE EROSION CONTROL PLAN AT ALL TIMES.

21. THE CONTRACTOR IS HEREBY CAUTIONED THAT AT ALL SITE FEATURES SHOWN HEREON ARE BASED ON FIELD OBSERVATIONS BY THE SURVEYOR AND BY INFORMATION PROVIDED BY UTILITY COMPANIES. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL CONTACT DIG-SAFE (811) AT LEAST THREE (3) BUT NOT MORE THAN THIRTY (30) DAYS PRIOR TO COMMENCEMENT OF EXCAVATION OR DEMOLITION TO VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES.

22. CONTRACTOR SHALL BE AWARE THAT DIG-SAFE ONLY NOTIFIES ITS "MEMBER" UTILITIES ABOUT THE DIG. WHEN NOTIFIED, DIG-SAFE WILL ADVISE CONTRACTOR OF MEMBER UTILITIES IN THE AREA. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND CONTACTING NON-MEMBER UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMISSION TO RELOCATE ANY EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS. IF A UTILITY CONFLICT ARISES, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER, THE MUNICIPALITY AND APPROPRIATE UTILITY COMPANY PRIOR TO PROCEEDING WITH ANY RELOCATION.

23. CONTRACTORS SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE REQUIREMENTS OF 23 MRSAS 3300-A. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE APPROPRIATE UTILITIES TO OBTAIN AUTHORIZATION PRIOR TO RELOCATION OF ANY EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS. IF A UTILITY CONFLICT ARISES, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER, THE MUNICIPALITY AND APPROPRIATE UTILITY COMPANY PRIOR TO PROCEEDING WITH ANY RELOCATION.

24. ALL PAVEMENT MARKINGS AND DIRECTIONAL SIGNAGE SHOWN ON THE PLAN SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS.

25. ALL PAVEMENT JOINTS SHALL BE SAWCUT PRIOR TO PAVING TO PROVIDING A DURABLE AND UNIFORM JOINT.

26. NO HOLES, TRENCHES OR STRUCTURES SHALL BE LEFT OPEN OVERNIGHT IN ANY EXCAVATION ACCESSIBLE TO THE PUBLIC OR IN PUBLIC RIGHTS-OF-WAY.

27. IMMEDIATELY UPON COMPLETION OF CUTS/FILLS, THE CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH EROSION CONTROL NOTES AND AS SPECIFIED ON PLANS.

28. THE CONTRACTOR SHALL BE FULLY AND SOLELY RESPONSIBLE FOR THE REMOVAL, REPLACEMENT AND RECTIFICATION OF ALL DAMAGED AND DEFECTIVE MATERIAL AND WORKMANSHIP IN CONNECTION WITH THE CONTRACT WORK. THE CONTRACTOR SHALL REPLACE OR REPAIR AS DIRECTED BY THE OWNER ALL SUCH DAMAGED OR DEFECTIVE MATERIALS WHICH AFFECT WITHIN A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.

29. ALL WORK PERFORMED BY THE GENERAL CONTRACTOR AND/OR TRADE SUBCONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF LOCAL, STATE OR FEDERAL LAWS, AS WELL AS ANY OTHER GOVERNING REQUIREMENTS, WHETHER OR NOT SPECIFIED ON THE DRAWINGS.

30. WHERE THE TERMS "APPROVED EQUAL," "OTHER APPROVED," "EQUAL TO," "ACCEPTABLE" OR "SUBSTANTIALY EQUIVALENT" TERMS ARE USED IN THESE NOTES, IT SHALL BE UNDERSTOOD THAT REFERENCE IS MADE TO THE RULING AND JUDGEMENT OF SEBAGO TECHNICS, INC.

1. THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTION FOR THE WORK UNTIL TURNED OVER TO THE OWNER.
2. THE GENERAL CONTRACTOR SHALL MAINTAIN A CURRENT AND COMPLETE SET OF CONSTRUCTION DRAWINGS ON SITE DURING ALL PHASES OF CONSTRUCTION FOR USE OF ALL TRADES.
3. THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ANY CHANGES AND DEVIATION OF APPROVED PLANS NOT AUTHORIZED BY THE ARCHITECT/ENGINEER AND/OR CLIENT/OWNER.
4. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. ANY MODIFICATION TO SUIT FIELD DIMENSION AND CONDITION SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ANY WORK.
5. BEFORE THE FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL REMOVE ALL EQUIPMENT AND MATERIALS, REPAIR OR REPLACE PRIVATE OR PUBLIC PROPERTY WHICH MAY HAVE BEEN DAMAGED OR DESTROYED DURING CONSTRUCTION, CLEAN THE AREAS WITHIN AND ADJACENT TO THE PROJECT WHICH HAVE BEEN OBSTRUCTED BY HIS OPERATIONS, AND LEAVE THE PROJECT AREA NEAT AND PRESENTABLE.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING FLOW THROUGH THE EXISTING CLOSED TO THE WINDMILL SYSTEM DURING CONSTRUCTION AND SHALL SUBMIT A WORK PLAN FOR APPROVAL BY THE DESIGN ENGINEER.
7. BOUNDARY INFORMATION SHOWN HEREON IS BASED UPON LIDAR DATA AVAILABLE FROM THE TOWN OF WINDHAM AND AS DEPICTED IN PLAN REFERENCE TA. THE TOPOGRAPHICAL INFORMATION SHOWN HEREON IS SOLELY BASED UPON LIDAR TOPOGRAPHICAL INFORMATION PROVIDED BY THE OWNER, SEBAGO TECHNICS, INC. MAKES NO REPRESENTATION AS TO THE ACCURACY OF THIS INFORMATION, AND THROUGH DIRECTION OF THE OWNER, HAS RELIED UPON THIS INFORMATION FOR THE DESIGN.

1. PROTECT EXISTING BOUNDARY LINE MONUMENTATION. IF DISTURBED, EXISTING MONUMENTATION SHOULD BE RESET BY A PROFESSIONAL LAND SURVEYOR.
2. DEMOLITION OF UTILITIES REQUIRING TREE REMOVAL SHALL BE COORDINATED WITH THE OWNER AND IN ACCORDANCE WITH PROJECT PLANS.
3. UTILITY DEMOLITION SHALL BE COMPLETED IN COORDINATION WITH NEW INFRASTRUCTURE. CONTRACTOR SHALL ENSURE EXISTING SURFACE DRAINAGE IS MAINTAINED DURING CONSTRUCTION.
4. EXISTING SEWER AND STORM DRAINAGE INFRASTRUCTURE TO REMAIN ACTIVE DURING CONSTRUCTION AND UPON COMPLETION OF PROJECT. DEMOLITION/CONSTRUCTION ACTIVITIES SHALL NOT INTERFERE OR IMPROVE EXISTING FLOWS. CONTRACTOR SHALL PROVIDE BYPASS PUMPINGS AS REQUIRED DURING SEWER AND STORM DEMOLITION AND NEW CONSTRUCTION. DAMAGE TO EXISTING SEWER INFRASTRUCTURE SHALL BE REPAIRED BY CONTRACTOR AT THEIR EXPENSE.
5. DEMOLITION SHOWN IS FOR MAJOR SITE ELEMENTS TO BE DEMOLISHED. OTHER MINOR DEMOLITION MAY BE REQUIRED AS PART OF CONSTRUCTION AND SHALL BE CONSIDERED INCIDENTAL TO THE COST OF CONSTRUCTION. COORDINATE ALL DEMOLITION WORK WITH SITE AND BUILDING DRAWINGS.
6. PRIOR TO ANY DEMOLITION, THE CONTRACTOR SHALL SUBMIT A SEQUENCE OF DEMOLITION PLANS TO THE OWNER. THIS PLAN SHALL DEPICT LOCATIONS OF PROPOSED TERMINATIONS AND ANY TEMPORARY SERVICES THAT WILL BE NEEDED.
7. CONTRACTOR REQUIRED TO CONFIRM/MAINTAIN BENCHMARKS. IF IMPACTED CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION/RELOCATION AND COORDINATION WITH PROJECT TEAM.

1. SIDESLOPES SHALL NOT BE STEEPER THAN 3:1 (H:V) EXCEPT AS OTHERWISE IDENTIFIED ON THIS PLAN. ALL SIDESLOPES STEEPER THAN 3:1 (H:V) SHALL BE LINED WITH EROSION CONTROL BLANKET, OR ADDITIONAL MEASURES AS INDICATED.
2. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH "MAINE EROSION AND SEDIMENT CONTROL BMP'S" MANUAL PUBLISHED BY BUREAU OF LAND AND WATER, U.S. DEPARTMENT OF ENVIRONMENTAL PROTECTION, LATEST EDITION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO POSSESS A COPY OF THE EROSION CONTROL PLAN AT ALL TIMES.
3. ALL AREAS DISTURBED DURING CONSTRUCTION AND NOT RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) SHALL RECEIVE LOAM AND SEED PER DETAIL.
4. SEE UTILITY DRAWINGS FOR PIPE AND STRUCTURE DATA TABLES.

1. PROVIDE EROSION CONTROL MEASURES PRIOR TO SITE DISTURBANCE.
2. WETLANDS, ASSOCIATED SETBACKS AND STREAM SETBACKS TO BE STAKED BY OWNER PRIOR TO SITE DISTURBANCE.
3. BEFORE TREE CLEARING, REFER TO DESIGN PLANS FOR LIMIT OF TREE CLEARING. TREES SHALL NOT BE REMOVED FROM OUTSIDE THE CLEARING LIMIT LINE.
4. GRADING AND CLEARING LIMITS SHALL NOT ENCROACH ON ADJACENT PROPERTIES UNLESS NOTED OTHERWISE ON THE PLANS.
5. OPEN AREAS SHALL BE LIMITED TO AREAS BEING WORKED IN. THE AREA STRIPPED OF EXISTING VEGETATION AT ANY GIVEN TIME SHALL BE MINIMIZED AND BE PHASED WHERE PRACTICAL. SO THE AREAS ARE REVEGETATED AND PERMANENTLY STABILIZED BEFORE ADDITIONAL AREAS ARE STRIPPED OF EXISTING VEGETATION. STABILIZE CONSTRUCTION AREAS BY USE OF RIPRAP, SEED MULCH, OR OTHER GROUND COVER WITHIN ONE WEEK FROM THE TIME IT WAS ACTIVELY WORKED ON. EROSION CONTROL SHALL BE STABILIZED PRIOR TO DISTURBING THE STORMWATER RUNOFF TOWARD STORMWATER BMPs. PLEASE REFER TO DRAINAGE PLANS FOR WATERSHED AREAS.

UTILITY NOTES

1. UTILITY INFORMATION DEPICTED HEREON IS COMPILED USING PHYSICAL EVIDENCE LOCATED IN FIELD. UTILITIES DEPICTED HEREON MAY NOT NECESSARILY REPRESENT ALL EXISTING UTILITIES. CONTRACTORS ARE REQUIRED TO CONTACT DIG-SAFE SYSTEMS, INC. (1-888-DIG-SAFE) AND FIELD VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION AND/OR EXCAVATION. PROTECT EXISTING ONSITE SEWER PIPE AND ADJUST MANHOLE RIMS TO GRADE WHERE APPLICABLE.
2. ALL GRAVITY CONDUIT PIPES SHALL BE INSTALLED USING A PIPE LASER AND TARGET SYSTEM THROUGH THE PIPE. ON PIPE RUNS 50 FEET OR LESS, THE CONTRACTOR SHALL REQUEST ENGINEER'S APPROVAL TO USE OR NOT USE A GRADE LASER.
3. MAINTAIN MINIMUM 5'-6" OF COVER ABOVE TOP OF WATER SERVICE PIPE.
4. MAINTAIN MINIMUM 10 FEET HORIZONTAL SEPARATION BETWEEN WATER SERVICES AND OTHER UTILITIES. MAINTAIN MINIMUM 18 INCHES VERTICAL SEPARATION BETWEEN WATER SERVICES AND OTHER UTILITIES.
5. LOWER OR RAISE WATER SERVICES AS REQUIRED TO MAINTAIN MINIMUM 12 INCH VERTICAL SEPARATION FROM OTHER UTILITIES. WATER SERVICES CROSSING SEWERS SHALL BE PROVIDED INCH MINIMUM SEPARATION BETWEEN THE BOTTOM OF WATER SERVICE AND TOP OF SEWER UNLESS NOTED OTHERWISE ON THE PLANS.
6. PIPE:
 - SEWER PIPE SHALL BE SDR 35 PVC OR APPROVED EQUAL.
 - FORCEMAIN PIPE SHALL BE DR 11 HDPE OR APPROVED EQUAL.
 - STORMDRAIN PIPE SHALL BE 12" DUAL WALL HDPE PIPE WITH SMOOTH-WALLED INTERIOR OR APPROVED EQUAL UNLESS NOTED OTHERWISE ON THE UTILITY PLANS.WATER PIPE AND FITTINGS SHALL CONFORM TO PORTLAND WATER DISTRICT WATER PIPING SPECIFICATIONS. MAIN WATER SERVICE PIPE SHALL BE DUCTILE IRON, CLASS 52 PUSH-ON, MEETING THE REQUIREMENTS OF AWWA/C11/A21.11 (LATEST REVISION). PIPE SHALL BE CEMENT-LINED AWWA/C104/A21.1 WITH LINING THICKNESS SPECIFIED, AND COATED TWICE WITH A BITUMINOUS SEAL COATING. PROVIDE THROCKS PROTECTS AT ALL WATER SERVICE BENDS.
7. COORDINATE FOUNDATION UNDERPINN LOCATIONS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
8. COORDINATE UTILITY INVERTS AT BUILDING WITH ARCHITECTURAL, STRUCTURAL AND PLUMBING DRAWINGS.
9. COORDINATE LOCATION OF SEWER, WATER, GAS, FOUNDATION DRAINS AND ROOF DRAIN INVERTS TO THE BUILDING WITH ARCHITECTURAL DRAWINGS.
10. WATER SERVICE ENTRANCE DESIGNS TO INCLUDE METERS AND BACKFLOW PREVENTERS TO MEET ALL STANDARDS AND REQUIREMENTS OF THE PORTLAND WATER DISTRICT.
11. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY GRADE CHANGE THAT WILL IMPACT STORM DRAINAGE INFRASTRUCTURE OR OTHER UTILITIES.
12. UTILITIES WITHIN 5 FEET FROM FACE OF BUILDING ARE COORDINATED ON RELEVANT M.E.P. DRAWINGS. CONTRACTOR SHALL COORDINATE INVERTS, CONNECTIONS AND MATERIALS WITH ALL DRAWINGS.
13. CONTRACTOR SHALL FURNISH AND INSTALL TRENCHING, MATERIALS AND BACKFILL FOR ALL UTILITIES. ELECTRICAL AND TELECOM/DATA PROVIDERS WILL PULL PRIMARY SERVICE TO TRANSFORMER AND PANEL. CONTRACTOR RESPONSIBLE FOR TIMING AND COORDINATION WITH UTILITIES AND DRAWINGS. COORDINATE WITH ELECTRICAL DRAWINGS FOR CONDUIT SCHEDULE TYPE AND SIZES.
14. COORDINATE ALL WATER RELATED WORK WITH PORTLAND WATER DISTRICT.

| | |
|----------|--------------------------------|
| AC | ACRE |
| AFG | ABOVE FINISH GRADE |
| APPROX. | APPROXIMATELY |
| BBC | BOTTOM OF CURB |
| BIT | BITUMINOUS CONCRETE CURB |
| BLDG | BUILDING |
| BW | BOTTOM OF WALL |
| CB | CATCH BASIN |
| CC | CONCRETE |
| CONT | CONTINUOUS |
| DI | DUCTILE IRON |
| DI | DIAMETER |
| DMH | DRAIN MANHOLE |
| E.W. | EACH WAY |
| ELEV | ELEVATION |
| EFFE | FINISH FLOOR ELEVATION |
| FIN. GR. | FINISH GRADE |
| FTG | FOOTING |
| HDP | HIGH DENSITY POLYETHYLENE |
| HGT | HEIGHT |
| HM | HOT MIX ASPHALT |
| INV | INVERT |
| LF | LINEAR FEET |
| LS | LANDSCAPE AREA |
| OC | ON CENTER |
| PVC | POLYVINYL CHLORIDE |
| PWD | PORTLAND WATER DISTRICT |
| R | RADIUS |
| R.O.W. | RIGHT OF WAY |
| SF | SQUARE FEET |
| SC | SCHEDULE |
| SCL | SLOPPED CONCRETE SLOPED CURB |
| SCV | SLOPPED CONCRETE VERTICAL CURB |
| SD | STORM DRAIN |
| SG | SLOPED GRANITE CURB |
| SMH | SEWER MANHOLE |
| SPEC | SPECIFICATIONS |
| SS | SANITARY SEWER |
| SSGC | SALVAGED SLOPED GRANITE CURB |
| SSVC | SALVAGED VERTICAL GRANITE CURB |
| TC | TOP OF CURB |
| TW | TOP OF WALL |
| TYF | TYPICAL |
| VGC | VERTICAL GRANITE CURB |
| VVF | VERIFY IN FIELD |

230411-01 NL.dwg, TAB:Notes & Legend

NOTES & LEGEND

OF: FRANKLIN DRIVE MULTIFAMILY
FRANKLIN DRIVE
WINDHAM, ME

FOR: NEW GEN ESTATES, LLC
50 MAINE MALL ROAD
SOUTH PORTLAND, ME 04106

SEBAGO
TECHNICS

SEBAGOTECHNICS.COM
75 John Roberts Rd. Suite 4A
South Portland, ME 04106
207-200-2100

South Portland, Bridgton, Sanford and Bath

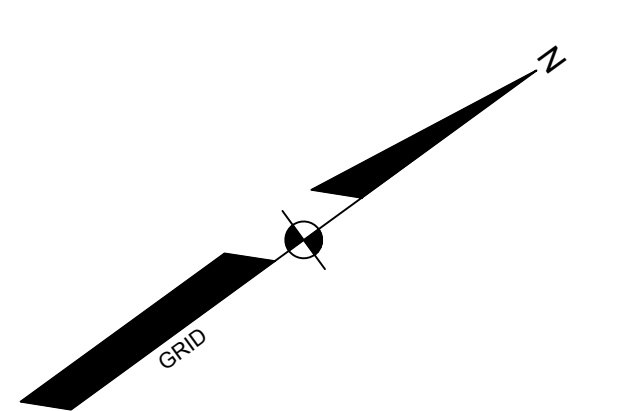
South Portland, Bridgton, Sanford and Bath

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|------|-----|------------|---|
| A | RAM | 06/23/2025 | LOCAL SUBMISSION TO THE TOWN OF WINDHAM |
| REV: | BY: | DATE: | STATUS: |

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PROGRESS
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| PROPERTY LINE TABLE | | |
|---------------------|---------------|----------|
| LINE | BEARING | DISTANCE |
| L1 | S 00°08'41" E | 32.39' |
| L2 | S 77°23'05" E | 54.19' |

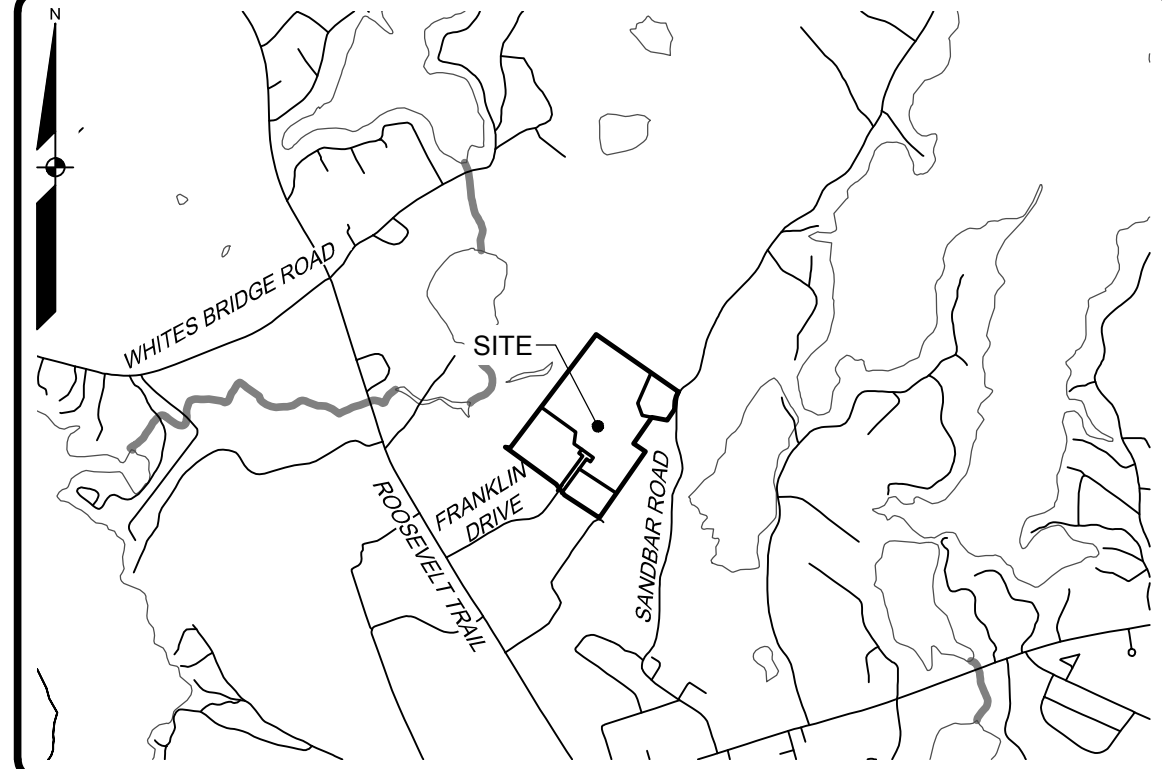
| PROPERTY CURVE TABLE | | | | |
|----------------------|---------|---------|---------------|------------|
| CURVE | LENGTH | RADIUS | CRD BEARING | CRD LENGTH |
| C1 | 157.73' | 300.00' | S 14°58'46" W | 155.92' |

| PROPERTY LINE TABLE | | |
|---------------------|---------------|----------|
| LINE | DIRECTION | DISTANCE |
| L3 | N 36°04'23" E | 50.00' |
| L4 | N 53°55'37" W | 49.00' |
| L5 | N 53°55'37" W | 49.00' |
| L6 | S 36°04'23" W | 50.00' |
| L7 | S 36°04'23" W | 46.02' |
| L8 | S 56°48'14" E | 5.01' |
| L9 | S 56°48'14" E | 50.06' |

| PARCEL AREA TABLE | | |
|-------------------|----------------|------------|
| PARCEL | AREA (S.F.) | AREA (AC.) |
| LOT 1 | 146,077 S.F. | 3.35 AC. |
| LOT 2 | 343,466 S.F. | 7.88 AC. |
| LOT 3 | 1,042,917 S.F. | 23.94 AC. |
| LOT 4 | 132,812 S.F. | 3.05 AC. |

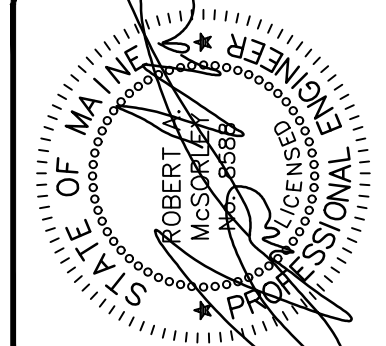
| EASEMENT LINE TABLE | | |
|---------------------|---------------|----------|
| LINE | DIRECTION | DISTANCE |
| EL7 | N 52°56'36" W | 24.64' |
| EL8 | N 47°52'35" W | 59.35' |
| EL9 | N 73°09'47" W | 59.54' |
| EL10 | N 56°56'12" W | 61.92' |
| EL11 | N 82°20'27" W | 48.08' |
| EL12 | N 31°03'20" W | 71.38' |
| EL13 | N 16°16'40" W | 162.96' |
| EL14 | N 36°01'58" E | 64.86' |
| EL15 | N 7°39'56" E | 17.04' |
| EL16 | S 36°01'58" W | 129.18' |
| EL17 | S 36°01'58" W | 72.14' |

| EASEMENT LINE TABLE | | |
|---------------------|---------------|----------|
| LINE | DIRECTION | DISTANCE |
| EL18 | N 53°58'02" W | 140.00' |
| EL19 | N 53°58'02" W | 120.02' |
| EL20 | S 66°23'08" W | 19.32' |
| EL21 | S 30°22'20" E | 4.62' |
| EL22 | N 23°36'52" W | 15.41' |
| EL23 | N 33°50'06" E | 57.12' |
| EL24 | S 55°17'20" E | 131.81' |
| EL25 | N 41°50'03" W | 52.42' |
| EL26 | N 21°15'20" W | 15.29' |
| EL27 | N 34°42'40" E | 93.82' |
| EL28 | S 56°48'14" E | 175.31' |



LOCATION MAP

ROBERT A. MCSOREY, P.E. 6588



GENERAL NOTES

- THE RECORD OWNER OF THE PARCEL IS NEW GEN ESTATES BY DEED DATED JANUARY 2, 2024 AND RECORDED AT THE CUMBERLAND COUNTY REGISTRY OF DEEDS (CCRD) IN BOOK 40556, PAGE 273.
- THE PROPERTY IS SHOWN AS BLOCK 26, LOT 2, UNIT A-02 ON THE TOWN OF WINDHAM TAX MAP 18 AND IS LOCATED IN THE COMMERCIAL I (C-1) DISTRICT.
- TOTAL AREA OF PARCEL IS APPROXIMATELY 7.88 ACRES PER PLAN REFERENCE 5A.
- BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED UPON PLAN REFERENCE 5A. FIELD WORK WAS PERFORMED BY SEBAGO TECHNICS, INC. IN NOVEMBER OF 2024 TO VERIFY THE BOUNDARY AND TOPOGRAPHIC INFORMATION.
- PLAN REFERENCES:
 - "EXISTING CONDITIONS LAND OF JLB WINDHAM LLC" DATED NOVEMBER 2022 SURVEYED BY BH2M AND PLAN IS UNRECORDED.
 - "AMENDED SUBDIVISION PLAN THE WINDHAM MALL" DATED APRIL 6, 2005 BY SURVEY, INC. AND RECORDED AT THE CCRD IN PLAN BOOK 205, PAGE 254.
- BASIS OF BEARING IS GRID NORTH, MAINE STATE PLANE COORDINATE SYSTEM, WEST ZONE 1802-NAD83, GEOID18 IN INTERNATIONAL FEET, PLAN REFERENCE 5A.
- BENCHMARK:
BM-1 X-CISELED IN HYDRANT, BONNET BOLT ELEVATION: 317.34 (NAV08)
BM-2 BOX CUT IN CONCRETE LIGHT POLE NORTHERLY CORNER ELEVATION: 315.17 (NAV08)
- UTILITY INFORMATION DEPICTED HEREON, UNLESS OTHERWISE NOTED, IS OF QUALITY LEVEL D PER AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) STANDARD C100-22. UTILITIES DEPICTED HEREON MAY NOT NECESSARILY REPRESENT ALL EXISTING UTILITIES. CONTRACTORS AND/OR DESIGNERS NEED TO CONTACT DIG-SAFE SYSTEMS, INC. (1-888-DIG-SAFE) AND FIELD VERIFY EXISTING UTILITIES WITHIN THE PROJECT AREA PRIOR TO CONSTRUCTION AND/OR EXCAVATION.
- THE LOCUS PROPERTY AS DEPICTED HEREON DOES NOT FALL WITHIN A SPECIAL FLOOD HAZARD AREA AS DELINEATED ON THE FLOOD INSURANCE RATE MAP FOR WINDHAM, MAINE, CUMBERLAND COUNTY, PANEL NUMBERS 23005C0477F, 23005C0479F, 23005C0481F, AND 23005C0483F, HAVING AN EFFECTIVE DATE OF JUNE 20, 2024. THE LOCUS FALLS WITHIN AN AREA IDENTIFIED AS ZONE X, AREAS OF MINIMAL FLOODING.
- WETLAND AREAS SHOWN HEREON WERE DELINEATED BY MARL HAMPTON IN ACCORDANCE WITH THE 1987 ARMY CORPS OF ENGINEERS WETLAND DELINEATION MANUAL AND FIELD LOCATED BY MARK HAMPTON USING CONVENTIONAL SURVEY EQUIPMENT. VERNAL POOLS SHOWN HEREON WERE DELINEATED AND ASSESSED BY FLYCATCHER, LLC.
- SPACE AND BULK CRITERIA FOR THE COMMERCIAL DISTRICT I (C-1) ARE AS FOLLOWS:

| | REQUIRED | PROPOSED |
|--------------------------|-------------------|-------------|
| MINIMUM LOT SIZE: | N/A | N/A |
| NET RESIDENTIAL DENSITY: | N/A | N/A |
| MINIMUM STREET FRONTAGE: | 100 FEET | 543.44 FEET |
| FRONT SETBACK: | 0 FEET TO 20 FEET | 19.40 FEET |
| MINIMUM SIDE SETBACK: | 6 FEET | 85.71 FEET |
| MINIMUM REAR SETBACK: | 6 FEET | 112.07 FEET |
| MAXIMUM BUILDING HEIGHT: | 75 FEET | 67.08 FEET |
- SNOW STORAGE
13.1. THE SITE PLANS SHOWS DESIGNATED AREAS FOR SNOW STORAGE.
13.2. ADDITIONAL OFF-SITE SNOW REMOVAL SERVICES, AS REQUIRED, WILL BE COORDINATED BY THE OWNER.

LOT 2 NOTES

| | |
|---|--------------------------------|
| TOTAL NUMBER OF PROPOSED UNITS | = 306 UNITS |
| TOTAL REQUIRED PARKING SPACES | = 366 SPACES |
| TOTAL NUMBER OF PROPOSED PARKING SPACES | = 390 SPACES (INCLUDES 12 ADA) |
| TOTAL NUMBER OF PROPOSED BICYCLE SPACES | = 150 SPACES |
| TOTAL REQUIRED INTERNAL LANDSCAPING (15%) | = 24,868 SF |
| TOTAL PROPOSED INTERNAL LANDSCAPING | = 30,893 SF (18.6%) |

APPROVAL- TOWN OF WINDHAM PLANNING BOARD

DATE

CHAIRPERSON

STATE OF MAINE, CUMBERLAND
COUNTY SS, REGISTRY OF DEEDS

RECEIVED _____ 20____
AT _____ H _____ M _____ AND

RECORDED IN _____

PLAN BOOK _____ PAGE _____

ATTEST: _____ REGISTER

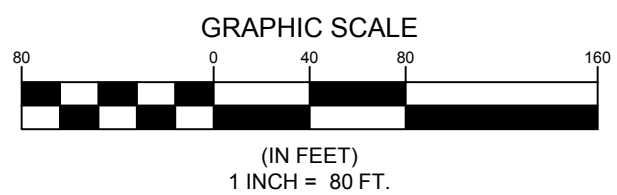
230411-01 D:\S.dwg, TAB Subdivision & Overall Site

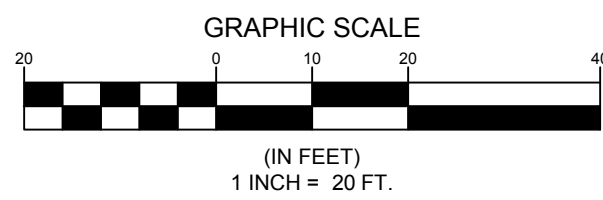
2ND SUBDIVISION PLAN & OVERALL SITE PLAN
OF:
FRANKLIN DRIVE MULTI-FAMILY PARCEL
WINDHAM, ME

FOR:
NEW GEN ESTATES, LLC
50 MAINE MALL ROAD
SOUTH PORTLAND, ME 04106

| | |
|----------|------------|
| DESIGNED | KPW |
| DRAWN | EPR |
| CHECKED | RAM |
| DATE | 02/13/2025 |
| SCALE | 1" = 80' |
| PROJECT | 230411-01 |

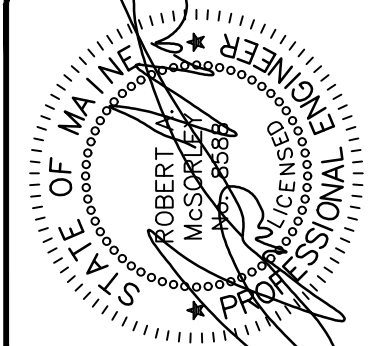
SHEET C-100





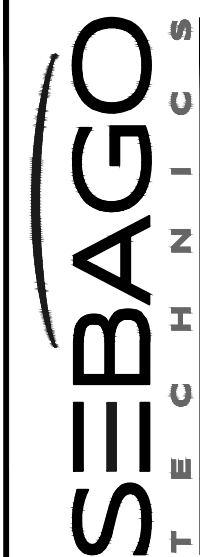
PROGRESS
PRINT

ROBERT A. MCSORLEY, PE 8588



| | | | |
|---|-----|------------|---|
| A | RAM | 06/23/2025 | LOCAL SUBMISSION TO THE TOWN OF WINDHAM |
| REV: BY: | | DATE: | STATUS: |
| <p>THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SEBAGO TECHNICS, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SEBAGO TECHNICS, INC.</p> | | | |

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SEBAGOTECHNICS.COM
75 John Roberts Rd. Suite 4A
South Portland, ME 04106
207-200-2100

South Portland, Bridgton, Sanford and Bath

SITE PLAN
OF:
FRANKLIN DRIVE MULTI-FAMILY PARCEL
FRANKLIN DRIVE

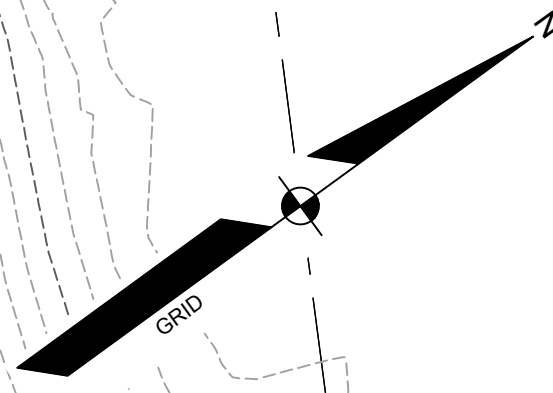
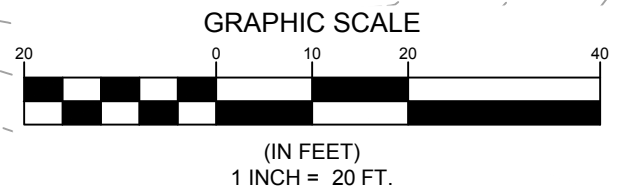
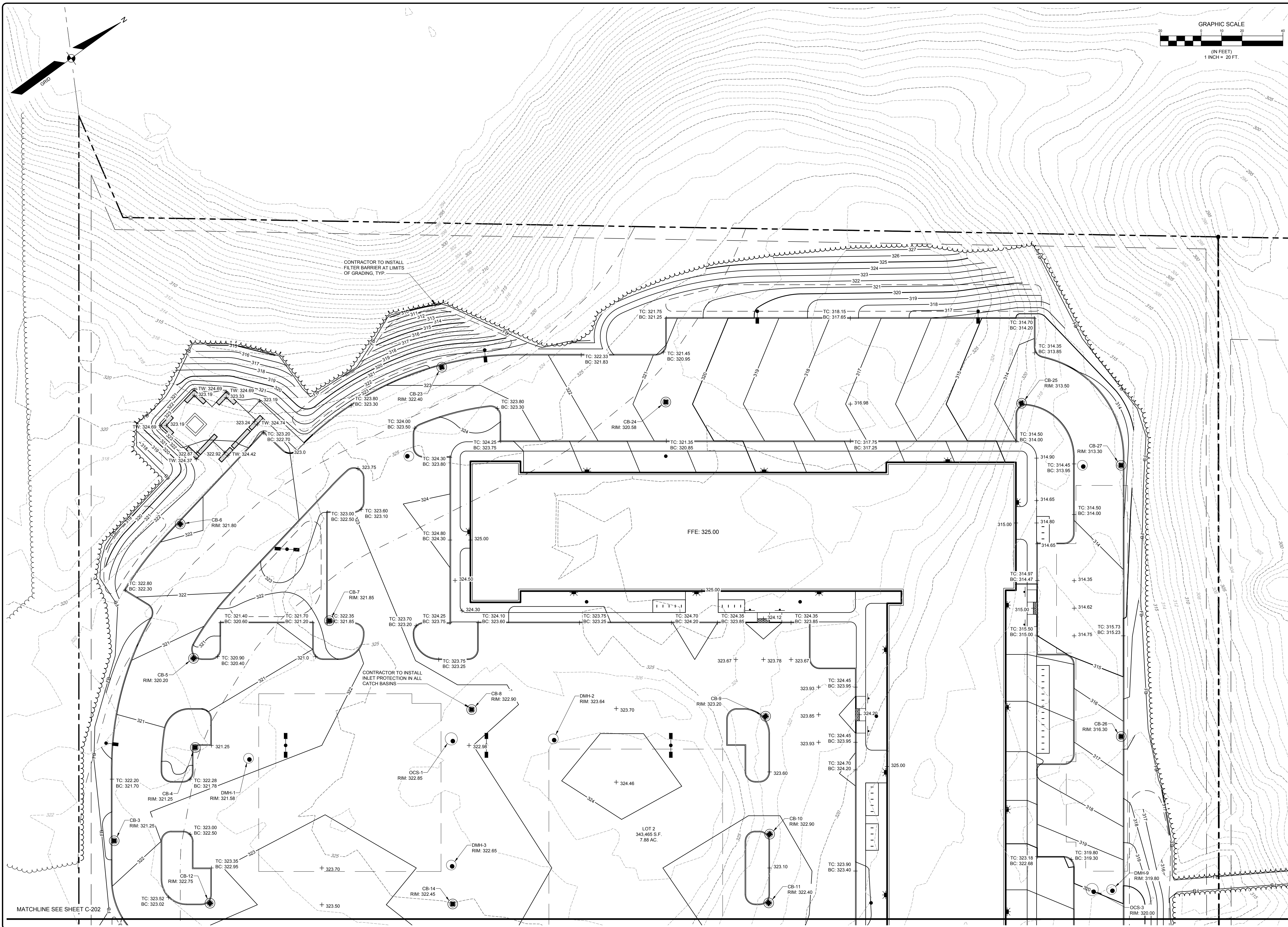
FOR:
NEW GEN ESTATES, LLC
550 MAINE MALL ROAD
SOUTH PORTLAND, ME 04106

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| DESIGNED | KPW |
| DRAWN | EPR |
| CHECKED | RAM |
| DATE | 02/13/2025 |
| SCALE | 1" = 20' |
| PROJECT | 230411-01 |

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| DESIGNED | KPW |
| DRAWN | EPR |
| CHECKED | RAM |
| DATE | 02/13/2025 |
| SCALE | 1" = 20' |
| PROJECT | 230411-01 |

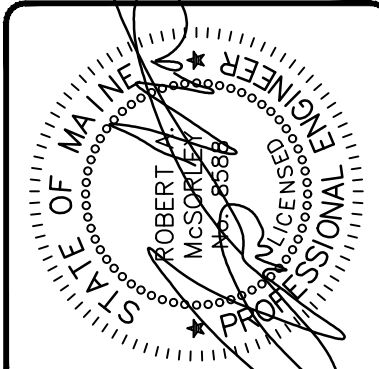
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GRADING PLAN
OF:
FRANKLIN DRIVE MULTI-FAMILY PARCEL
FRANKLIN DRIVE
WINDHAM, ME
FOR:
NEW GEN ESTATES, LLC
50 MAINE MALL ROAD
SOUTH PORTLAND, ME 04106

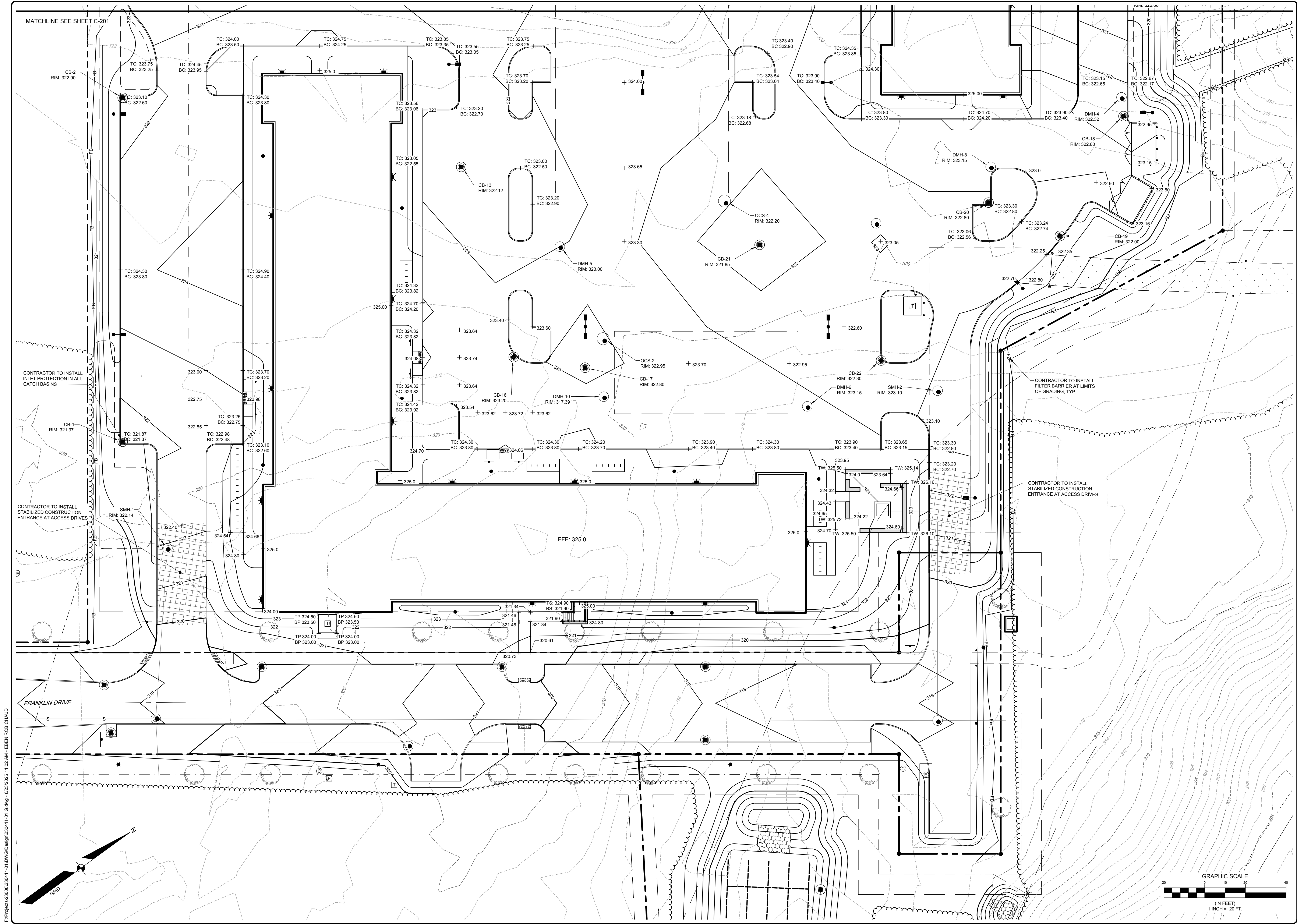
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| | | | | |
|---|-----|------------|--------|---|
| REV | BY | DATE | STATUS | LOCAL SUBMISSION TO THE TOWN OF WINDHAM |
| A | RAM | 06/23/2025 | DATE | STATUS |
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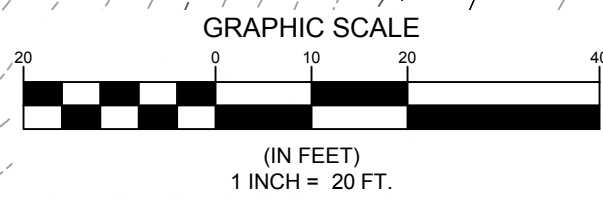
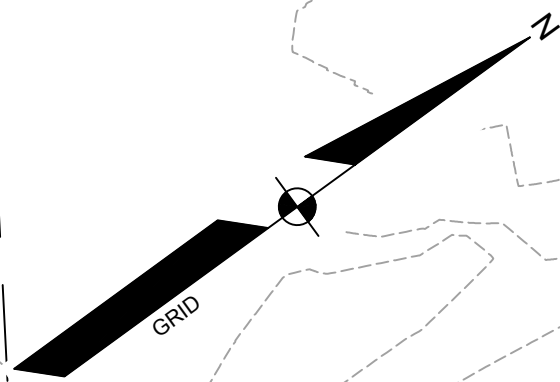
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230411-01 G.dwg, TAB Grading 2

GRADING PLAN
OF:
FRANKLIN DRIVE MULTI-FAMILY PARCEL
WINDHAM, ME
FOR:
NEW GEN ESTATES, LLC
50 MAINE MALL ROAD
SOUTH PORTLAND, ME 04106

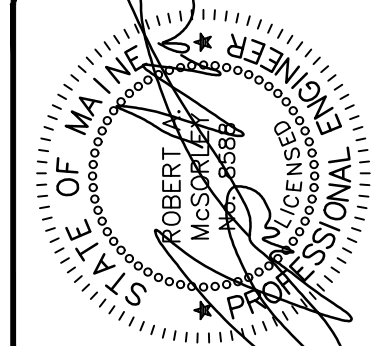
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| DESIGNED | KPW |
| DRAWN | EPR |
| CHECKED | RAM |
| DATE | 02/13/2025 |
| SCALE | 1" = 20' |
| PROJECT | 230411-01 |

SHEET C-202

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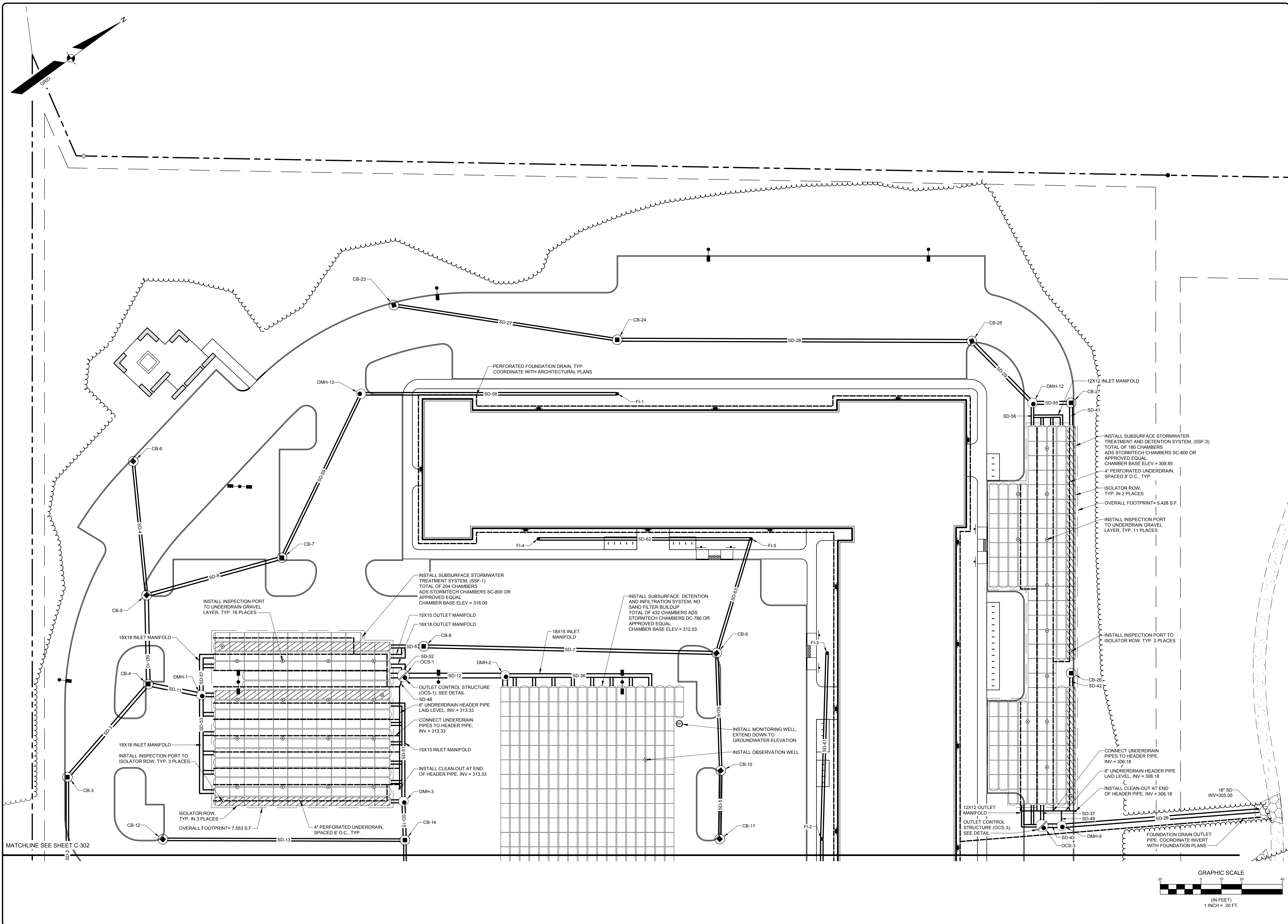
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| A | RAM | 06/23/2025 | LOCAL SUBMISSION TO THE TOWN OF WINDHAM |
| REV | BY | DATE | STATUS |
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ROBERT A. MCSOREY, PE 6588



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230411-01 U.dwg TAB Utility 1

UTILITY PLAN
OF:
FRANKLIN DRIVE MULTI-FAMILY PARCEL
FRANKLIN DRIVE
WINDHAM, ME
FOR:
NEW GEN ESTATES, LLC
50 MAINE MALL ROAD
SOUTH PORTLAND, ME 04106

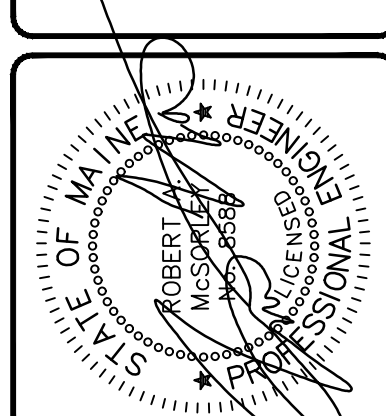
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| DESIGNED | KPW |
| DRAWN | EPR |
| CHECKED | RAM |
| DATE | 02/13/2025 |
| SCALE | 1" = 20' |
| PROJECT | 230411-01 |

SHEET C-301

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SEBAGOTECHNICS.COM
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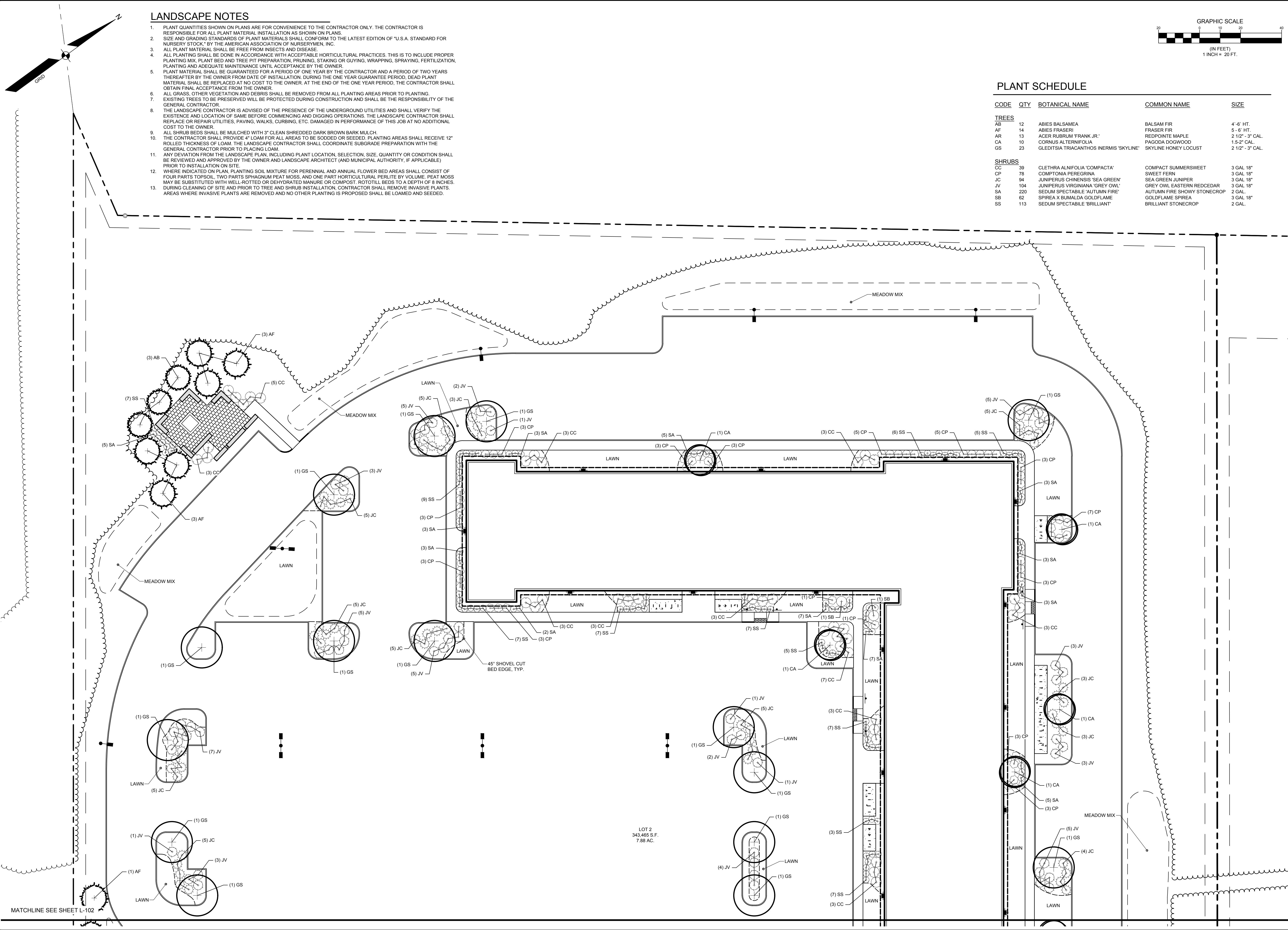
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|---|-----|------------|---|
| A | RAM | 06/23/2025 | LOCAL SUBMISSION TO THE TOWN OF WINDHAM |
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LANDSCAPE NOTES

1. PLANT QUANTITIES SHOWN ON PLANS ARE FOR CONVENIENCE TO THE CONTRACTOR ONLY. THE CONTRACTOR IS RESPONSIBLE FOR ALL PLANT MATERIAL INSTALLATION AS SHOWN ON PLANS.
2. SIZE AND GRADING STANDARDS OF PLANT MATERIALS SHALL CONFORM TO THE LATEST EDITION OF "U.S.A. STANDARD FOR NURSERY STOCK," BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC.
3. ALL PLANT MATERIAL SHALL BE FREE FROM INSECTS AND DISEASE.
4. ALL PLANTING SHALL BE DONE IN ACCORDANCE WITH ACCEPTABLE HORTICULTURAL PRACTICES. THIS IS TO INCLUDE PROPER PLANTING MIX, PLANT BED AND TREE PIT PREPARATION, PRUNING, STAKING OR GUYING, WRAPPING, SPRAYING, FERTILIZATION, PLANTING AND ADEQUATE MAINTENANCE UNTIL ACCEPTANCE BY THE OWNER.
5. PLANT MATERIAL SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR BY THE CONTRACTOR AND A PERIOD OF TWO YEARS THEREAFTER BY THE OWNER FROM DATE OF INSTALLATION. DURING THE ONE YEAR GUARANTEE PERIOD, DEAD PLANT MATERIAL SHALL BE REPLACED AT NO COST TO THE OWNER. AT THE END OF THE ONE YEAR PERIOD, THE CONTRACTOR SHALL OBTAIN FINAL ACCEPTANCE FROM THE OWNER.
6. ALL GRASS, OTHER VEGETATION AND DEBRIS SHALL BE REMOVED FROM ALL PLANTING AREAS PRIOR TO PLANTING.
7. EXISTING TREES TO BE PRESERVED WILL BE PROTECTED DURING CONSTRUCTION AND SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
8. THE LANDSCAPE CONTRACTOR IS ADVISED OF THE PRESENCE OF THE UNDERGROUND UTILITIES AND SHALL VERIFY THE EXISTENCE AND LOCATION OF SAME BEFORE COMMENCING AND DIGGING OPERATIONS. THE LANDSCAPE CONTRACTOR SHALL REPLACE OR REPAIR UTILITIES, PAVING, WALKS, CURBING, ETC. DAMAGED IN PERFORMANCE OF THIS JOB AT NO ADDITIONAL COST TO THE OWNER.
9. ALL SHRUB BEDS SHALL BE MULCHED WITH 3" CLEAN SHREDDED DARK BROWN BARK MULCH.
10. THE CONTRACTOR SHALL PROVIDE 4" LOAM FOR ALL AREAS TO BE SODDED OR SEEDED. PLANTING AREAS SHALL RECEIVE 12" ROLLED THICKNESS OF LOAM. THE LANDSCAPE CONTRACTOR SHALL COORDINATE SUBGRADE PREPARATION WITH THE GENERAL CONTRACTOR PRIOR TO PLACING LOAM.
11. ANY DEVIATION FROM THE LANDSCAPE PLAN, INCLUDING PLANT LOCATION, SELECTION, SIZE, QUANTITY OR CONDITION SHALL BE REVIEWED AND APPROVED BY THE OWNER AND LANDSCAPE ARCHITECT (AND MUNICIPAL AUTHORITY, IF APPLICABLE) PRIOR TO INSTALLATION ON SITE.
12. WHERE INDICATED ON PLAN, PLANTING SOIL MIXTURE FOR PERENNIAL AND ANNUAL FLOWER BED AREAS SHALL CONSIST OF FOUR PARTS TOPSOIL, TWO PARTS SPHAGNUM PEAT MOSS, AND ONE PART HORTICULTURAL PERLITE BY VOLUME. PEAT MOSS MAY BE SUBSTITUTED WITH WELL-ROTTED OR DEHYDRATED MANURE OR COMPOST. ROTOTILL BEDS TO A DEPTH OF 8 INCHES.
13. DURING CLEANING OF SITE AND PRIOR TO TREE AND SHRUB INSTALLATION, CONTRACTOR SHALL REMOVE INVASIVE PLANTS. AREAS WHERE INVASIVE PLANTS ARE REMOVED AND NO OTHER PLANTING IS PROPOSED SHALL BE LOAMED AND SEEDED.

PLANT SCHEDULE

| CODE | QTY | BOTANICAL NAME | COMMON NAME | SIZE |
|-------------------------|-----|--|-----------------------------|------------------|
| TREES | | | | |
| AB | 12 | ABIES BALSAMEA | BALSAM FIR | 4'-6" HT. |
| AF | 14 | ABIES FRASERI | FRASER FIR | 5'-6" HT. |
| AR | 13 | ACER RUBRUM 'FRANK JR.' | REDPOINTE MAPLE | 2 1/2" - 3" CAL. |
| CA | 10 | CORNUS ALTERNIFOLIA | PAGODA DOGWOOD | 1.5-2" CAL. |
| GS | 23 | GLEDITSIA TRIACANTHOS 'INERMIS 'SKYLINE' | SKYLINE HONEY LOCUST | 2 1/2" - 3" CAL. |
| SHRUBS | | | | |
| CC | 39 | CLETHRA ALNIFOLIA 'COMPACTA' | COMPACT SUMMERSWEET | 3 GAL 18" |
| CP | 78 | COMPTONIA PEREGRINA | SWEET FERN | 3 GAL 18" |
| JC | 94 | JUNIPERUS CHINENSIS 'SEA GREEN' | SEA GREEN JUNIPER | 3 GAL 18" |
| JV | 104 | JUNIPERUS VIRGINIANA 'GREY OWL' | GREY OWL EASTERN REDCEDAR | 3 GAL 18" |
| SA | 220 | SEDUM SPECTABILE 'AUTUMN FIRE' | AUTUMN FIRE SHOWY STONECROP | 2 GAL. |
| SB | 62 | SPIREA X BUMALDA GOLDFLAME | GOLDFLAME SPIREA | 3 GAL 18" |
| SS | 113 | SEDUM SPECTABILE 'BRILLIANT' | BRILLIANT STONECROP | 2 GAL. |

PROGRESS PRINT

THARN S. NEIN-LARGE
REGISTERED LANDSCAPE ARCHITECT
STATE OF NEW HAMPSHIRE
No. 1607

THARN S. NEIN-LARGE
REGISTERED LANDSCAPE ARCHITECT
STATE OF NEW HAMPSHIRE
No. 1607

LOCAL SUBMISSION TO THE TOWN OF WINDHAM

REV. BY: DATE: STATUS:

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SERAGO TECHNICS, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SERAGO TECHNICS, INC.

SEBAGO TECHNICS

SERAGOTECHNICS.COM
75 John Roberts Rd., Suite 4A
South Portland, ME 04106
207-200-2100

South Portland, Bridgton, Sanford and Bath

LANDSCAPE PLAN
OF:
FRANKLIN DRIVE MULTI-FAMILY PARCEL
WINDHAM, ME

FOR:
NEW GEN ESTATES, LLC
50 MAINE MALL ROAD
SOUTH PORTLAND, ME 04106

DESIGNED: KPW

DRAWN: EPR

CHECKED: RAM

DATE: 02/13/2025

SCALE: 1" = 20'

PROJECT: 230411-01

SHEET L-101

230411-01 Ldwg TAB Landscape 1

EROSION CONTROL MEASURES

PRE-CONSTRUCTION PHASE

PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, SEDIMENT BARRIERS (SILT FENCE) WILL BE STAKED/INSTALLED ACROSS THE SLOPE(S), ON THE CONTOUR AT OR JUST BELOW THE LIMITS OF CLEARING OR GRUBBING, AND/OR JUST ABOVE ANY ADJACENT PROPERTY LINE OR WATERCOURSE TO PROTECT AGAINST CONSTRUCTION RELATED EROSION. THE PLACEMENT OF SEDIMENT BARRIERS SHALL BE COMPLETED IN ACCORDANCE WITH GUIDELINES ESTABLISHED IN BEST MANAGEMENT PRACTICES AND IN ACCORDANCE WITH THIS CONSTRUCTION CONTROL PLAN AND DETAILS IN THIS PLAN SET. THIS NETWORK IS TO BE MAINTAINED BY THE CONTRACTOR UNTIL ALL EXPOSED SLOPES HAVE AT LEAST 90% VIGOROUS PERENNIAL VEGETATIVE COVER TO PREVENT EROSION. TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER PERMANENT STABILIZATION IS ATTAINED.

PRIOR TO ANY CLEARING OR GRUBBING, A CONSTRUCTION ENTRANCE/EXIT SHALL BE CONSTRUCTED AT THE INTERSECTION OF THE PROPOSED ENTRANCES AND EXISTING ROADWAY TO AVOID TRACKING OF MUD, DUST AND DEBRIS FROM THE SITE.

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PREPARE A DETAILED SCHEDULE AND MARKED UP PLAN INDICATING AREAS AND COMPONENTS OF THE WORK AND KEY DATES SHOWING DATE OF DISTURBANCE AND COMPLETION OF THE WORK. THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE MUNICIPAL STAFF. THREE COPIES OF THE SCHEDULE AND MARKED UP PLAN SHALL BE PROVIDED TO THE MUNICIPALITY THREE DAYS PRIOR TO THE SCHEDULED PRE-CONSTRUCTION MEETING. SPECIAL ATTENTION SHALL BE GIVEN TO THE 14 DAY LIMIT OF DISTURBANCE IN THE SCHEDULE ADDRESSING TEMPORARY AND PERMANENT VEGETATION MEASURES.

CONSTRUCTION AND POST-CONSTRUCTION PHASE

AREAS UNDERGOING ACTUAL CONSTRUCTION SHALL ONLY EXPOSE THAT AMOUNT OF MINERAL SOIL NECESSARY FOR PROGRESSIVE AND EFFICIENT CONSTRUCTION. AN AREA CONSIDERED OPEN IS ANY AREA NOT STABILIZED WITH PAVEMENT, VEGETATION, MULCHING, EROSION CONTROL MATS, RIPRAP OR GRAVEL BASE ON A ROAD, SUCH AS ACTIVE EXCAVATION AND ACTIVE GRADING. LIMIT THE EXPOSED AREA TO THOSE AREAS IN WHICH WORK IS ACTIVELY OCCURRING OR CAN BE MULCHED IN THE SAME DAY. OPEN AREAS SHALL BE ANCHORED WITH TEMPORARY EROSION CONTROL, AS SHOWN ON THE DESIGN PLANS AND AS DESCRIBED WITHIN THIS EROSION CONTROL PLAN WITHIN SEVEN (7) DAYS OF DISTURBANCE. AREAS LOCATED WITHIN 100 FEET OF STREAMS SHALL BE ANCHORED WITH TEMPORARY EROSION CONTROL WITHIN SEVEN (7) DAYS. REFER TO WINTER EROSION CONTROL NOTES FOR THE TREATMENT OF OPEN AREAS AFTER OCTOBER 1ST OF THE CONSTRUCTION YEAR.

THE CONTRACTOR MUST INSTALL ANY ADDED MEASURES WHICH MAY BE NECESSARY TO CONTROL EROSION/SEDIMENTATION FROM THE SITE DEPENDENT UPON THE ACTUAL SITE AND WEATHER CONDITIONS. CONTINUATION OF EARTHWORK OPERATIONS ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED, IN ORDER TO MINIMIZE AREAS WITHOUT EROSION CONTROL PROTECTION.

EROSION CONTROL APPLICATIONS & MEASURES

THE PLACEMENT OF EROSION CONTROL MEASURES SHALL BE COMPLETED IN ACCORDANCE WITH GUIDELINES ESTABLISHED IN BEST MANAGEMENT PRACTICES AND IN ACCORDANCE WITH THE EROSION CONTROL PLAN AND DETAILS IN THE PLAN SET.

1. TEMPORARY MULCHING:

ALL DISTURBED AREAS SHALL BE MULCHED WITH MATERIALS SPECIFIED BELOW PRIOR TO ANY STORM EVENT. ALL DISTURBED AREAS NOT FINAL GRADED WITHIN 14 DAYS SHALL BE MULCHED. DISTURBED AREAS ADJACENT TO NATURAL RESOURCES THAT ARE NOT GRADED WITHIN SEVEN (7) DAYS SHALL BE MULCHED. ALSO, AREAS, WHICH HAVE BEEN TEMPORARILY OR PERMANENTLY SEEDED, SHALL BE MULCHED IMMEDIATELY FOLLOWING SEEDING. EROSION CONTROL BLANKETS ARE RECOMMENDED TO BE USED AT THE BASE OF GRADED WATERWAYS AND ON SLOPES GREATER THAN 33%. MULCH ANCHORING SHOULD BE USED ON SLOPES GREATER THAN 5% AFTER SEPTEMBER 15TH OF THE CONSTRUCTION YEAR (SEE WINTER EROSION CONTROL NOTES).

TYPES OF MULCH:

HAY OR STRAW: SHALL BE APPLIED AT A RATE OF 75 LBS/1,000 S.F. (1.5 TONS PER ACRE).

EROSION CONTROL MIX SHALL BE PLACED EVENLY AND MUST PROVIDE 100% SOIL COVERAGE. EROSION CONTROL MIX SHALL BE APPLIED SUCH THAT THE THICKNESS ON SLOPES AT 1% LESS IS 2 INCHES PLUS 1/2 INCH PER 20 FEET OF SLOPE UP TO 100 FEET. THE THICKNESS ON SLOPES BETWEEN 3:1 AND 2:1 SHALL BE 4 INCHES PLUS 1/2 INCH PER 20 FEET OF SLOPE UP TO 100 FEET. THIS SHALL NOT BE USED ON SLOPES GREATER THAN 2:1.

EROSION CONTROL BLANKET SHALL BE INSTALLED SUCH THAT CONTINUOUS CONTACT BETWEEN THE MAT AND THE SOIL IS OBTAINED. INSTALL BLANKETS AND STAPLE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

2. SOIL STOCKPILES:

STOCKPILES OF SOIL OR SUBSOIL SHALL BE MULCHED WITH HAY OR STRAW AT A RATE OF 75 LBS/1,000 S.F. (1.5 TONS PER ACRE) OR WITH A FOUR-INCH LAYER OF WOOD WASTE EROSION CONTROL MIX. THIS WILL BE DONE WITHIN 24 HOURS OF STOCKING AND RE-ESTABLISHED PRIOR TO ANY RAINFALL. ANY SOIL STOCKPILE WILL NOT BE PLACED (EVEN COVERED WITH HAY OR STRAW) WITHIN 100 FEET FROM ANY NATURAL RESOURCES. SEDIMENT BARRIERS SHALL BE INSTALLED DOWNGRADEMENT OF STOCKPILES, AND STORMWATER SHALL BE PREVENTED FROM RUNNING ONTO THE STOCKPILE.

3. NATURAL RESOURCES PROTECTION:

ANY AREAS WITHIN 100 FEET FROM ANY NATURAL RESOURCES SHALL BE MULCHED USING TEMPORARY MULCHING (AS DESCRIBED IN PART 1 OF THIS SECTION) WITHIN 7 DAYS OF EXPOSURE OR PRIOR TO ANY STORM EVENT. SEDIMENT BARRIERS (AS DESCRIBED IN PART 4 OF THIS SECTION) SHALL BE PLACED BETWEEN ANY NATURAL RESOURCE AND THE DISTURBED AREA. PROJECTS CROSSING THE NATURAL RESOURCE SHALL BE PROTECTED A MINIMUM DISTANCE OF 100 FEET ON EITHER SIDE FROM THE RESOURCE.

4. SEDIMENT BARRIERS:

PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, SEDIMENT BARRIERS SHALL BE STAKED ACROSS THE SLOPE(S), ON THE CONTOUR AT OR JUST BELOW THE LIMITS OF CLEARING OR GRUBBING, AND/OR JUST ABOVE ANY ADJACENT PROPERTY LINE OR WATERCOURSE TO PROTECT AGAINST CONSTRUCTION RELATED EROSION. SEDIMENT BARRIERS SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL ALL EXPOSED SLOPES HAVE AT LEAST 90% VIGOROUS PERENNIAL VEGETATIVE COVER TO PREVENT EROSION.

SILT FENCE: SHALL BE INSTALLED PER THE DETAIL ON THE PLANS. THE EFFECTIVE HEIGHT OF THE FENCE SHALL NOT EXCEED 36 INCHES. IT IS RECOMMENDED THAT SILT FENCE BE REMOVED BY CUTTING THE FENCE MATERIALS AT GROUND LEVEL, SO AS TO AVOID ADDITIONAL SOIL DISTURBANCE.

HAY BALES: SHALL NOT BE INSTALLED ADJACENT TO WETLAND. INSTALL PER THE DETAIL ON THE PLANS. BALES SHALL BE WIRE-BOUND OR STRING-TIED AND THESE BINDINGS MUST REMAIN PARALLEL WITH THE GROUND SURFACE DURING INSTALLATION TO PREVENT DESTRUCTION OF THE BINDINGS. BALES SHALL BE INSTALLED WITHIN A MINIMUM 4 INCH DEEP TRENCH LINE WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER.

EROSION CONTROL MIX SHALL NOT BE USED ADJACENT TO WETLANDS. INSTALL PER THE DETAIL ON THE PLANS. THE MIX SHALL CONSIST PRIMARILY OF ORGANIC MATERIAL AND CONTAIN A WELL-GRADED MIXTURE OF PARTICLE SIZES AND MAY CONTAIN ROCKS LESS THAN 4 INCHES IN DIAMETER. THE MIX COMPOSITION SHALL MEET THE STANDARDS DESCRIBED WITHIN THE MDEP BEST MANAGEMENT PRACTICES. NO TRENCHING IS REQUIRED FOR INSTALLATION OF THIS BARRIER. EROSION CONTROL MIX BERMS SHALL NOT BE USED AT THE BOTTOM OF STEEP SLOPES (>8%) OR SLOPES WITH FLOWING WATER.

CONTINUOUS CONTAINED BERM SHALL BE INSTALLED PER THE DETAIL ON THE PLANS. THIS SEDIMENT BARRIER IS EROSION CONTROL MIX PLACED WITH A SYNTHETIC TUBULAR NETTING AND PERFORMS AS A STURDY SEDIMENT BARRIER THAT WORKS WELL ON HARD GROUND SUCH AS FROZEN CONDITIONS, TRAVELED AREAS OR PAVEMENT. NO TRENCHING IS REQUIRED FOR INSTALLATION OF THIS BARRIER.

5. TEMPORARY CHECK DAMS:

SHALL BE INSTALLED PER THE DETAIL ON THE PLANS. CHECK DAMS ARE TO BE PLACED WITHIN DITCHES/ SWALES AS SPECIFIED ON THE DESIGN PLANS IMMEDIATELY AFTER FINAL GRADING. CHECK DAMS SHALL BE 2 FEET HIGH. TEMPORARY CHECK DAMS MAY BE REMOVED ONLY AFTER THE ROADWAYS ARE PAVED AND THE VEGETATED SWALE ARE ESTABLISHED WITH AT LEAST 90% OF VIGOROUS PERENNIAL GROWTH. THE AREA BENEATH THE CHECK DAM MUST BE SEEDED AND MULCHED IMMEDIATELY AFTER REMOVAL OF THE CHECK DAM.

STONE CHECK DAMS: STONE DAMS SHOULD BE CONSTRUCTED OF 2 TO 3 INCH STONE AND PLACED SUCH THAT COMPLETE COVERAGE OF THE SWALE IS OBTAINED AND THAT THE CENTER OF THE DAM IS 6 INCHES LOWER THAN THE OUTER EDGES.

HAY BALE CHECK DAMS: BALES SHALL BE WIRE-BOUND OR STRING-TIED. BALES SHALL BE INSTALLED WITHIN A MINIMUM 4 INCH DEEP TRENCH LINE WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER. HAY BALES SHALL BE PLACED SUCH THAT COMPLETE COVERAGE OF THE SWALE IS OBTAINED AND THAT THE CENTER OF THE DAM IS 6 INCHES LOWER THAN THE OUTER EDGES.

MANUFACTURED CHECK DAMS: MANUFACTURED CHECK DAMS, AS SPECIFIED IN THE DETAIL ON THE PLANS, MAY BE USED IF AUTHORIZED BY THE PROPER LOCAL, STATE OR FEDERAL REGULATING AGENCIES. THESE UNITS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURE'S RECOMMENDATIONS.

6. STORMDRAIN INLET PROTECTION:

INLET PROTECTION SHALL BE PLACED AROUND A STORMDRAIN DROP INLET OR CURB INLET PRIOR TO PERMANENT STABILIZATION OF THE IMMEDIATE AND UPSTREAM DISTURBED AREAS. THEY SHALL BE CONSTRUCTED IN A MANNER THAT WILL FACILITATE CLEAN-OUT AND DISPOSAL OF TRAPPED SEDIMENTS AND MINIMIZE INTERFERENCE WITH CONSTRUCTION ACTIVITIES. ANY RESULTANT PONDING OF WATER FROM THE PROTECTION METHOD MUST NOT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT AREAS OR STRUCTURES.

HAY BALE DROP INLET PROTECTION: WE DO NOT RECOMMEND THE USE OF HAY BALES AS INLET PROTECTION.

CONCRETE BLOCK AND STONE INLET SEDIMENT FILTER (DROP OR CURB INLET): SHALL BE INSTALLED PER THE DETAIL ON THE PLANS. THE HEIGHT OF THE CONCRETE BLOCK BARRIER CAN VARY BUT MUST BE BETWEEN 12 AND 24 INCHES TALL. A MINIMUM OF 1 INCH CRUSHED STONE SHALL BE USED.

MANUFACTURED SEDIMENT BARRIERS AND FILTER (DROP OR CURB INLET): MANUFACTURED FILTERS, AS SPECIFIED IN THE DETAIL ON THE PLANS, MAY BE USED IF INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

7. STABILIZED CONSTRUCTION ENTRANCE/EXIT:

PRIOR TO CLEARING AND/OR GRUBBING THE SITE A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE CONSTRUCTED WHEREVER TRAFFIC WILL EXIT THE CONSTRUCTION SITE ONTO A PAVED ROADWAY IN ORDER TO MINIMIZE TRACKING OF SEDIMENT AND DEBRIS FROM THE CONSTRUCTION SITE ONTO PUBLIC ROADWAYS. THE ENTRANCES AND ADJACENT ROADWAY AREAS SHALL BE PERIODICALLY SWEEP TO FURTHER MINIMIZE THE TRACKING OF MUD, DUST OR DEBRIS FROM THE CONSTRUCTION AREA. THE TERM "SWEEP" IS UNDERSTOOD TO MEAN REMOVAL AND RECOVERY OF TRACKED SEDIMENT WITH A STREET SWEEPER, NOT BRUSHING THE MATERIAL INTO SWALES OR STRUCTURES WITH A MECHANICAL BROOM. STABILIZED CONSTRUCTION EXITS SHALL BE CONSTRUCTED IN AREAS SPECIFIED ON THE PLANS AND AS DETAILED ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN THE STABILIZED CONSTRUCTION ENTRANCE UNTIL ALL DISTURBED AREAS ARE STABILIZED.

DUST CONTROL:

DUST CONTROL DURING CONSTRUCTION SHALL BE ACHIEVED BY THE USE OF A WATERING TRUCK TO PERIODICALLY SPRINKLE THE EXPOSED ROADWAY AREAS AS NECESSARY TO REDUCE DUST DURING THE DRY MONTHS. APPLYING OTHER DUST CONTROL PRODUCTS SUCH AS CALCIUM CHLORIDE OR OTHER MANUFACTURED PRODUCTS ARE ALLOWED IF AUTHORIZED BY THE PROPER LOCAL, STATE AND/OR FEDERAL REGULATING AGENCIES. HOWEVER, IT IS THE CONTRACTOR'S ULTIMATE RESPONSIBILITY TO MITIGATE DUST AND SOIL LOSS FROM THE SITE. IF OFFSITE TRACKING OCCURS, PUBLIC ROADS SHOULD BE SWEEP IMMEDIATELY AND NOT LESS THAN ONCE A WEEK AND PRIOR TO SIGNIFICANT STORM EVENTS.

TEMPORARY VEGETATION:

TEMPORARY VEGETATION SHALL BE APPLIED TO DISTURBED AREAS THAT WILL NOT RECEIVE FINAL GRADING FOR PERIODS UP TO 12 MONTHS. THIS PROCEDURE SHOULD BE USED EXTENSIVELY IN AREAS ADJACENT TO NATURAL RESOURCES. SEEDBED PREPARATION AND APPLICATION OF SEED SHALL BE CONDUCTED AS INDICATED IN THE PERMANENT VEGETATION SECTION OF THIS NARRATIVE. SPECIFIC SEEDS (FAST GROWING AND SHORT LIVING) SHALL BE SELECTED FROM THE MAINE EROSION AND SEDIMENT CONTROL BMP MANUALS FOR CONTRACTORS AND ENGINEERS, LATEST REVISION. ALTERNATIVE EROSION CONTROL MEASURES SHOULD BE USED IF SEEDING CAN NOT BE DONE BEFORE SEPTEMBER 15TH OF THE CONSTRUCTION YEAR.

PERMANENT VEGETATION:

REVEGETATION MEASURES SHALL COMMENCE IMMEDIATELY UPON COMPLETION OF FINAL GRADING OF AREAS TO BE LOAMED AND SEEDED. THE APPLICATION OF SEED SHALL BE CONDUCTED BETWEEN APRIL 1ST AND OCTOBER 1ST OF THE CONSTRUCTION YEAR. PLEASE REFER TO THE WINTER EROSION CONTROL NOTES FOR MORE DETAIL. REVEGETATION MEASURES SHALL CONSIST OF THE FOLLOWING:

SEEDBED PREPARATION:

A. FOUR (4) INCHES OF LOAM SHALL BE SPREAD OVER DISTURBED AREAS AND SMOOTHED TO A UNIFORM SURFACE. LOAM SHALL BE FREE OF SUBSOIL, CLAY LUMPS, STONES AND OTHER OBJECTS OVER 2 INCHES OR LARGER IN ANY DIMENSION, AND WITHOUT WEEDS, ROOTS OR OTHER OBJECTIONABLE MATERIAL.

B. SOILS TESTS SHALL BE TAKEN AT THE TIME OF SOIL STRIPPING TO DETERMINE FERTILIZATION REQUIREMENTS. SOILS TESTS SHALL BE TAKEN PROMPTLY AS TO NOT INTERFERE WITH THE 14-DAY LIMIT ON SOIL EXPOSURE. BASED UPON TEST RESULTS, SOIL AMENDMENTS SHALL BE INCORPORATED INTO THE SOIL PRIOR TO FINAL SEEDING. IN LIEU OF SOIL TESTS, SOIL AMENDMENTS MAY BE APPLIED AS FOLLOWS:

| ITEM | APPLICATION RATE |
|--|----------------------|
| 10-20-20 FERTILIZER (N-P205-K20 OR EQUAL) | 18.4 LBS./1,000 S.F. |
| GROUND LIMESTONE (50% CALCIUM & MAGNESIUM OXIDE) | 138 LBS./1,000 S.F. |
| C. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH PROPER EQUIPMENT. ROLL THE AREA TO FIRM THE SEEDBED EXCEPT ON CLAY OR SILTY SOILS OR COARSE SAND. | |

APPLICATION OF SEED:

A. SEEDING SHALL BE CONDUCTED BETWEEN APRIL 1ST AND OCTOBER 1ST OF THE CONSTRUCTION YEAR. GENERALLY A SEED MIXTURE MAY BE APPLIED AS FOLLOWS: (CONSERVATION MIX)

| SEED TYPE | APPLICATION RATE |
|---|-----------------------------------|
| FESCUE, FAWN | 0.34 LBS/1,000 S.F. (15 LBS/ACRE) |
| BIRD'S FOOT TREFOIL, VARIETY NOT STATED | 0.28 LBS/1,000 S.F. (12 LBS/ACRE) |
| ANNUAL RYEGRASS | 0.18 LBS/1,000 S.F. (8 LBS/ACRE) |
| TIMOTHY, CLIMAX | 0.18 LBS/1,000 S.F. (8 LBS/ACRE) |
| ALSIKE CLOVER | 0.11 LBS/1,000 S.F. (5 LBS/ACRE) |
| REDTOP | 0.05 LBS/1,000 S.F. (2 LBS/ACRE) |
| TOTAL | 1.14 LBS/1,000 S.F. (50 LBS/ACRE) |

NOTE: A SPECIFIC SEED MIXTURE SHOULD BE CHOSEN TO MATCH THE SOILS CONDITION OF THE SITE. VARIOUS AGENCIES CAN RECOMMEND SEED MIXTURES. MDEP RECOMMENDED SEED MIXTURES ARE IN THE EROSION AND SEDIMENT CONTROL BMP MANUAL DATED 2016 OR LATEST REVISION.

B. HYDROSEEDING SHALL BE CONDUCTED ON PREPARED AREAS WITH SLOPES LESS THAN 2:1. LIME AND FERTILIZER MAY BE APPLIED SIMULTANEOUSLY WITH THE SEED. RECOMMENDED SEEDING RATES MUST BE INCREASED BY 10% WHEN HYDROSEEDING.

C. MULCHING: SHALL COMMENCE IMMEDIATELY AFTER SEED IS APPLIED. REFER TO THE TEMPORARY MULCHING SECTION OF THIS NARRATIVE FOR DETAILS.

SODDING:

FOLLOWING SEEDBED PREPARATION, SOD CAN BE APPLIED IN LIEU OF SEEDING IN AREAS WHERE IMMEDIATE VEGETATION IS MOST BENEFICIAL SUCH AS DITCHES, AROUND STORMWATER DROP INLETS AND AREAS OF AESTHETIC VALUE. SOD SHOULD BE LAID AT RIGHT ANGLES TO THE DIRECTION OF FLOW, STARTING AT THE LOWEST ELEVATION. SOD SHOULD BE ROLLED OR TAMPED DOWN TO EVEN OUT THE JOINTS ONCE LAID DOWN. WHERE FLOW IS PREVALENT THE SOD MUST BE PROPERLY ANCHORED DOWN. IRRIGATE THE SOD IMMEDIATELY AFTER INSTALLATION. IN MOST CASES, SOD CAN BE ESTABLISHED BETWEEN APRIL 1ST AND NOVEMBER 15TH OF THE CONSTRUCTION YEAR, HOWEVER, REFER TO THE WINTER EROSION CONTROL NOTES FOR ANY ACTIVITIES AFTER OCTOBER 1ST.

STANDARDS FOR TIMELY STABILIZATION:

STANDARD FOR THE TIMELY STABILIZATION OF DISTURBED SLOPES -- THE CONTRACTOR WILL CONSTRUCT AND STABILIZE STONE-COVERED SLOPES BY NOVEMBER 15. THE CONTRACTOR WILL SEED AND MULCH ALL SLOPES TO BE VEGETATED BY SEPTEMBER 15. THE MDEP WILL CONSIDER ANY AREA HAVING A GRADE GREATER THAN 15% (6.7H:1V) TO BE A SLOPE. IF THE CONTRACTOR FAILS TO STABILIZE ANY SLOPE TO BE VEGETATED BY SEPTEMBER 15, THEN THE CONTRACTOR WILL TAKE ONE OF THE FOLLOWING ACTIONS TO STABILIZE THE SLOPE FOR LATE FALL AND WINTER.

- STABILIZE THE SOIL WITH TEMPORARY VEGETATION AND EROSION CONTROL MATS -- BY OCTOBER 1 THE CONTRACTOR WILL SEED THE DISTURBED SLOPE WITH WINTER RYE AT A SEEDING RATE OF 3 POUNDS PER 1000 SQUARE FEET AND APPLY EROSION CONTROL MATS OVER THE MULCHED SLOPE. THE CONTRACTOR WILL MONITOR GROWTH OF THE RYE OVER THE NEXT 30 DAYS. IF THE RYE FAILS TO GROW AT LEAST THREE INCHES OR COVER AT LEAST 75% OF THE DISTURBED SLOPE BY NOVEMBER 1, THEN THE CONTRACTOR WILL COVER THE SLOPE WITH A LAYER OF WOOD WASTE COMPOST AS DESCRIBED IN ITEM 2(C) OF THIS STANDARD OR WITH STONE RIPRAP AS DESCRIBED IN ITEM 2(D.) OF THIS STANDARD.
- STABILIZE THE SLOPE WITH SOD -- THE CONTRACTOR WILL STABILIZE THE DISTURBED SLOPE WITH PROPERLY INSTALLED SOD BY OCTOBER 1. PROPER INSTALLATION INCLUDES THE CONTRACTOR PINNING THE SOD ONTO THE SLOPE WITH WIRE PINS, ROLLING THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, AND WATERING THE SOD TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL. THE CONTRACTOR WILL NOT USE LATE-SEASON SOD INSTALLATION TO STABILIZE SLOPES HAVING A GRADE GREATER THAN 33% (3H:1V).
- STABILIZE THE SLOPE WITH WOOD WASTE COMPOST -- THE CONTRACTOR WILL PLACE A SIX-INCH LAYER OF WOOD WASTE COMPOST ON THE SLOPE BY NOVEMBER 15. PRIOR TO PLACING THE WOOD WASTE COMPOST, THE CONTRACTOR WILL REMOVE ANY SNOW ACCUMULATION ON THE DISTURBED SLOPE. THE CONTRACTOR WILL NOT USE WOOD WASTE COMPOST TO STABILIZE SLOPES HAVING GRADES GREATER THAN 50% (2H:1V) OR HAVING GROUNDWATER SEEPS ON THE SLOPE FACE.
- STABILIZE THE SLOPE WITH STONE RIPRAP -- THE CONTRACTOR WILL PLACE A LAYER OF STONE RIPRAP ON THE SLOPE BY NOVEMBER 15. THE CONTRACTOR WILL HIRE A REGISTERED PROFESSIONAL ENGINEER TO DETERMINE THE STONE SIZE NEEDED FOR STABILITY AND TO DESIGN A FILTER LAYER FOR UNDERNEATH THE RIPRAP.

STANDARD FOR THE TIMELY STABILIZATION OF DISTURBED SOILS -- BY SEPTEMBER 15 THE CONTRACTOR WILL SEED AND MULCH ALL DISTURBED SOILS ON AREAS HAVING A SLOPE LESS THAN 15%. IF THE CONTRACTOR FAILS TO STABILIZE THESE SOILS BY THIS DATE, THEN THE CONTRACTOR WILL TAKE ONE OF THE FOLLOWING ACTIONS TO STABILIZE THE SOIL FOR LATE FALL AND WINTER.

- STABILIZE THE SOIL WITH TEMPORARY VEGETATION -- BY OCTOBER 1 THE CONTRACTOR WILL SEED THE DISTURBED SOIL WITH WINTER RYE AT A SEEDING RATE OF 3 POUNDS PER 1000 SQUARE FEET. LIGHTLY MULCH THE SEEDED SOIL WITH HAY OR STRAW AT 75 POUNDS PER 1000 SQUARE FEET, AND ANCHOR THE MULCH WITH PLASTIC NETTING. THE CONTRACTOR WILL MONITOR GROWTH OF THE RYE OVER THE NEXT 30 DAYS. IF THE RYE FAILS TO GROW AT LEAST THREE INCHES OR COVER AT LEAST 75% OF THE DISTURBED SOIL BEFORE NOVEMBER 15, THEN THE CONTRACTOR WILL MULCH THE AREA FOR OVER-WINTER PROTECTION AS DESCRIBED IN ITEM 3(C) OF THIS STANDARD.
- STABILIZE THE SOIL WITH SOD -- BY OCTOBER 1 THE CONTRACTOR WILL STABILIZE THE DISTURBED SOIL WITH PROPERLY INSTALLED SOD BY OCTOBER 1. PROPER INSTALLATION INCLUDES THE CONTRACTOR PINNING THE SOD ONTO THE SOIL WITH WIRE PINS, ROLLING THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, AND WATERING THE SOD TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL.
- STABILIZE THE SOIL WITH MULCH -- BY NOVEMBER 15 THE CONTRACTOR WILL MULCH THE DISTURBED SOIL BY SPREADING HAY OR STRAW AT A RATE OF AT LEAST 150 POUNDS PER 1000 SQUARE FEET. LIGHTLY MULCH THE SEEDED SOIL WITH HAY OR STRAW AT 75 POUNDS PER 1000 SQUARE FEET, AND ANCHOR THE MULCH WITH PLASTIC NETTING. THE CONTRACTOR WILL MONITOR GROWTH OF THE RYE OVER THE NEXT 30 DAYS. IF THE RYE FAILS TO GROW AT LEAST THREE INCHES OR COVER AT LEAST 75% OF THE DISTURBED SOIL BEFORE NOVEMBER 15, THEN THE CONTRACTOR WILL MULCH THE AREA FOR OVER-WINTER PROTECTION AS DESCRIBED IN ITEM 3(C) OF THIS STANDARD.

- MAINTENANCE MEASURES SHALL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION CYCLE. AFTER EACH RAINFALL, SNOW STORM OR PERIOD OF THAWING AND RUNOFF, AND AT LEAST EVERY SEVEN (7) DAYS, THE CONTRACTOR SHALL PERFORM A VISUAL INSPECTION OF ALL INSTALLED EROSION CONTROL MEASURES. THE CONTRACTOR SHALL PERFORM REPAIRS NO LATER THAN THE END OF THE NEXT WORKDAY, TO ALLOW CONTINUED PROPER FUNCTIONINGS OF THE EROSION CONTROL MEASURE. THE CONTRACTOR SHALL PROVIDE THE NECESSARY REGULATING AGENCIES WITH WRITTEN DOCUMENTATION DESCRIBING DATES OF INSPECTIONS AND NECESSARY FOLLOW-UP WORK TO MAINTAIN EROSION CONTROL MEASURES MEETING THE REQUIREMENTS OF THIS PLAN WITHIN SEVEN (7) DAYS.
- FOLLOWING THE TEMPORARY AND/OR FINAL SEEDINGS, THE CONTRACTOR SHALL INSPECT THE WORK AREA SEMIMONTHLY UNTIL THE SEEDINGS HAVE BEEN ESTABLISHED. ESTABLISHED MEANS A MINIMUM OF 90% OF AREAS VEGETATED WITH VIGOROUS GROWTH. RESEEDING SHALL BE CARRIED OUT BY THE CONTRACTOR WITH FOLLOW-UP INSPECTIONS IN THE EVENT OF ANY FAILURES UNTIL VEGETATION IS ADEQUATELY ESTABLISHED.

HOUSEKEEPING:

- SPILL PREVENTION: CONTRACTS MUST BE USED TO PREVENT POLLUTANTS FROM CONSTRUCTION AND WASTE MATERIALS STORED ON SITE TO ENTER STORMWATER, WHICH INCLUDES STORAGE PRACTICES TO MINIMIZE EXPOSURE OF THE MATERIALS TO STORMWATER. THE SITE CONTRACTOR OR OPERATOR MUST DEVELOP, AND IMPLEMENT AS NECESSARY, APPROPRIATE SPILL PREVENTION, CONTAINMENT, AND RESPONSE PLANNING MEASURES.
- GROUNDWATER PROTECTION: DURING CONSTRUCTION, LIQUID PETROLEUM PRODUCTS AND OTHER HAZARDOUS MATERIALS WITH THE POTENTIAL TO CONTAMINATE GROUNDWATER MAY NOT BE STORED OR HANDLED IN AREAS OF AN INFILTRATION AREA. AN INFILTRATION AREA IS ANY AREA OF THE SITE THAT BY DESIGN OR AS A RESULT OF SOILS, TOPOGRAPHY AND OTHER RELEVANT FACTORS ACCUMULATES RUNOFF THAT INFILTRATES INTO THE SOIL, DIKES, BERMS, BUMPS, AND OTHER FORMS OF GROUNDWATER INFILTRATION. NO TRENCHING IS REQUIRED FOR INSTALLATION OF THIS BARRIER. EROSION CONTROL MIX BERMS SHALL NOT BE USED AT THE BOTTOM OF STEEP SLOPES (>8%) OR SLOPES WITH FLOWING WATER.
- FUGITIVE SEDIMENT AND DUST: ACTIONS MUST BE TAKEN TO ENSURE THAT ACTIVITIES DO NOT RESULT IN NOTICEABLE EROSION OF SOILS OR FUGITIVE DUST EMISSIONS DURING OR AFTER CONSTRUCTION. OIL MAY NOT BE USED FOR DUST CONTROL, BUT OTHER WATER ADDITIVES MAY BE CONSIDERED AS NEEDED. A STABILIZED CONSTRUCTION ENTRANCE (SCE) SHOULD BE INCLUDED TO MINIMIZE TRACKING OF MUD AND SEDIMENT. IF OFF-SITE TRACKING OCCURS, PUBLIC ROADS SHOULD BE SWEEP IMMEDIATELY AND NO LESS THAN ONCE A WEEK AND PRIOR TO SIGNIFICANT STORM EVENTS. OPERATIONS DURING DRY MONTHS, THAT EXPERIENCE FUGITIVE DUST PROBLEMS, SHOULD WET DOWN UNPAVED ACCESS ROADS ONCE A WEEK OR MORE FREQUENTLY AS NEEDED WITH A WATER ADDITIVE TO SUPPRESS FUGITIVE SEDIMENT AND DUST.
- DEBRIS AND OTHER MATERIALS: MINIMIZE THE EXPOSURE OF CONSTRUCTION DEBRIS, BUILDING AND LANDSCAPING MATERIALS, TRASH, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS TO PRECIPITATION AND STORMWATER RUNOFF. THESE MATERIALS MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE.
- EXCAVATION DE-WATERING: EXCAVATION DE-WATERING IS THE REMOVAL OF WATER FROM TRENCHES, FOUNDATIONS, COFFER DAMS, PONDS, AND OTHER AREAS WITHIN THE CONSTRUCTION AREA THAT RETAIN WATER AFTER EXCAVATION. IN MOST CASES THE COLLECTED WATER IS HEAVILY SILTED AND HINDERS CORRECT AND SAFE CONSTRUCTION PRACTICES. THE COLLECTED WATER REMOVED FROM THE PONDED AREA, EITHER THROUGH GRAVITY OR PUMPING, MUST BE SPREAD THROUGH NATURAL WOODED BUFFERS OR REMOVED TO AREAS THAT ARE SPECIFICALLY DESIGNED TO COLLECT THE MAXIMUM AMOUNT OF SEDIMENT POSSIBLE. LIKE A COFFERDAM SEDIMENTATION BASIN, AVOID ALLOWING THE WATER TO FLOW OVER DISTURBED AREAS OF THE SITE. EQUIVALENT MEASURES MAY BE TAKEN IF APPROVED BY THE DEPARTMENT.
- AUTHORIZED NON-STORMWATER DISCHARGES: IDENTIFY AND PREVENT CONTAMINATION BY NON-STORMWATER DISCHARGES, WHERE ALLOWED NON-STORMWATER DISCHARGES EXIST. THEY MUST BE IDENTIFIED AND STEPS SHOULD BE TAKEN TO ENSURE THE IMPLEMENTATION OF APPROPRIATE POLLUTION PREVENTION MEASURES FOR THE NON-STORMWATER COMPONENT(S) OF THE DISCHARGE. AUTHORIZED NON-STORMWATER DISCHARGES ARE:
 - DISCHARGES FROM FIREFIGHTING ACTIVITY;
 - FIRE HYDRANT FLUSHINGS;
 - VEHICLE WASHWATER IF DETERGENTS ARE NOT USED AND WASHING IS LIMITED TO THE EXTERIOR OF VEHICLES (ENGINE, UNDERCARRIAGE AND TRANSMISSION WASHING IS PROHIBITED);
 - DUST CONTROL RUNOFF IN ACCORDANCE WITH PERMIT CONDITIONS;
 - ROUTINE EXTERNAL BUILDING WASHDOWN, NOT INCLUDING SURFACE PAINT REMOVAL, THAT DOES NOT INVOLVE DETERGENTS;
 - PAVEMENT WASHWATER (WHERE SPILLS/LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED, UNLESS ALL SPILLED MATERIAL HAD BEEN REMOVED) IF DETERGENTS ARE NOT USED;
 - UNCONTAMINATED AIR CONDITIONING OR COMPRESSOR CONDENSATE;
 - UNCONTAMINATED GROUNDWATER OR SPRING WATER;
 - FOUNDATION OR FOOTER DRAIN-WATER WHERE FLOWS ARE NOT CONTAMINATED;
 - UNCONTAMINATED EXCAVATION DEWATERING;
 - POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHINGS; AND
 - LANDSCAPE IRRIGATION.
- UNAUTHORIZED NON-STORMWATER DISCHARGES: THE DEPARTMENT'S APPROVAL DOES NOT AUTHORIZE A DISCHARGE THAT IS MIXED WITH A SOURCE OF NON-STORMWATER, OTHER THAN THOSE DISCHARGES. SPECIFICALLY, THE DEPARTMENT'S APPROVAL DOES NOT AUTHORIZE DISCHARGES OF THE FOLLOWING:
 - WASTEWATER FROM THE WASHOUT OR CLEAN OUT OF CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS OR OTHER CONSTRUCTION MATERIALS;
 - FUELS, OILS OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE;
 - SOAPS, SOLVENTS, OR DETERGENTS USED IN VEHICLE AND EQUIPMENT WASHING, AND
 - TOXIC OR HAZARDOUS SUBSTANCES FROM A SPILL OR OTHER RELEASE.

WINTER EROSION CONTROL MEASURES

THE WINTER CONSTRUCTION PERIOD IS FROM NOVEMBER 1 THROUGH APRIL 15. IF THE CONSTRUCTION SITE IS NOT STABILIZED WITH PAVEMENT, A ROAD GRAVEL BASE, 75% MATURE VEGETATION COVER OR RIPRAP BY NOVEMBER 1 THEN THE SITE NEEDS TO BE PROTECTED WITH OVER-WINTER STABILIZATION. AN AREA CONSIDERED OPEN IS ANY AREA NOT STABILIZED WITH PAVEMENT, VEGETATION, MULCHING, EROSION CONTROL MATS, RIPRAP OR GRAVEL BASE ON A ROAD. LIMIT THE EXPOSED AREA TO THOSE AREAS IN WHICH WORK IS EXPECTED TO BE UNDER TAKEN DURING THE PROCEEDING 15 DAYS AND THAT CAN BE MULCHED IN ONE DAY PRIOR TO ANY SNOW EVENT. ALL AREAS SHALL BE CONSIDERED TO BE DENIED UNTIL THE SUBBASE GRAVEL IS INSTALLED IN ROADWAY AREAS OR THE AREAS OF FUTURE LOAM AND SEED HAVE BEEN LOAMED, SEEDED AND MULCHED. HAY AND STRAW MULCH RATE SHALL BE A MINIMUM OF 150 LBS./1,000 S.F. (3 TONS PER ACRE) AND SHALL BE PROPERLY ANCHORED. THE CONTRACTOR MUST INSTALL ANY ADDED MEASURES WHICH MAY BE NECESSARY TO CONTROL EROSION/SEDIMENTATION FROM THE SITE DEPENDENT UPON THE ACTUAL SITE AND WEATHER CONDITIONS. CONTINUATION OF EARTHWORK OPERATIONS ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED, IN ORDER TO MINIMIZE AREAS WITHOUT EROSION CONTROL PROTECTION.

1. SOIL STOCKPILES

STOCKPILES OF SOIL OR SUBSOIL WILL BE MULCHED FOR OVER WINTER PROTECTION WITH HAY OR STRAW AT TWICE THE NORMAL RATE OR AT 150 LBS/1,000 S.F. (3 TONS PER ACRE) OR WITH A FOUR-INCH LAYER OF WOOD WASTE EROSION CONTROL MIX. THIS WILL BE DONE WITHIN 24 HOURS OF STOCKING AND RE-ESTABLISHED PRIOR TO ANY RAINFALL OR SNOWFALL. ANY SOIL STOCKPILE WILL NOT BE PLACED (EVEN COVERED WITH HAY OR STRAW) WITHIN 100 FEET FROM ANY NATURAL RESOURCES.

2. NATURAL RESOURCES PROTECTION

ANY AREAS WITHIN 100 FEET FROM ANY NATURAL RESOURCES, IF NOT STABILIZED WITH A MINIMUM OF 75% MATURE VEGETATION CATCH, SHALL BE MULCHED BY DECEMBER 1 AND ANCHORED WITH PLASTIC NETTING OR PROTECTED WITH EROSION CONTROL MATS. DURING WINTER CONSTRUCTION, A DOUBLE LINE OF SEDIMENT BARRIERS (I.E. SILT FENCE BACKED WITH HAY BALES OR EROSION CONTROL MIX) WILL BE PLACED BETWEEN ANY NATURAL RESOURCE AND THE DISTURBED AREA.

PROJECTS CROSSING THE NATURAL RESOURCE SHALL BE PROTECTED A MINIMUM DISTANCE OF 100 FEET ON EITHER SIDE FROM THE RESOURCE. EXISTING PROJECTS NOT STABILIZED BY DECEMBER 1 SHALL BE PROTECTED WITH THE SECOND LINE OF SEDIMENT BARRIER TO ENSURE FUNCTIONALITY DURING THE SPRING THAW AND RAINS.

3. SEDIMENT BARRIERS

DURING FROZEN CONDITIONS, SEDIMENT BARRIERS SHALL CONSIST OF WOOD WASTE FILTER BERMS AS FROZEN SOIL PREVENTS THE PROPER INSTALLATION OF HAY BALES AND SEDIMENT SILT FENCES.

4. MULCHING

ALL AREA SHALL BE CONSIDERED TO BE DENIED UNTIL AREAS OF FUTURE LOAM AND SEED HAVE BEEN LOAMED, SEEDED AND MULCHED. HAY AND STRAW MULCH SHALL BE APPLIED AT A RATE OF 150 LB. PER 1,000 SQUARE FEET OR 3 TONS/ACRE (TWICE THE NORMAL ACCEPTED RATE OF 75-LBS./1,000 S.F. OR 1.5 TONS/ACRE) AND SHALL BE PROPERLY ANCHORED. MULCH SHALL NOT BE SPREAD ON TOP OF SNOW. THE SNOW WILL BE REMOVED DOWN TO A ONE-INCH DEPTH OR LESS PRIOR TO APPLICATION. AFTER EACH DAY OF FINAL GRADING, THE AREA WILL BE PROPERLY STABILIZED WITH ANCHORED HAY OR STRAW OR EROSION CONTROL MATTING. AN AREA SHALL BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW OR HAY AT A RATE OF 150 LB. PER 1,000 SQUARE FEET (3 TONS/ACRE) AND ADEQUATELY ANCHORED THAT GROUND SURFACE IS NOT VISIBLE THROUGH THE MULCH.

BETWEEN THE DATES OF SEPTEMBER 1 AND APRIL 15, ALL MULCH SHALL BE ANCHORED BY EITHER PEG LINE, MULCH NETTING, ASPHALT EMULSION CHEMICAL, TRACK OR WOOD CELLULOSE FIBER. WHEN GROUND SURFACE IS NOT VISIBLE THROUGH THE MULCH THEN COVER IS SUFFICIENT. AFTER NOVEMBER 1ST, MULCH AND ANCHORING OF ALL BARE SOIL SHALL OCCUR AT THE END OF EACH FINAL GRADING WORK DAY.

5. MULCHING ON SLOPES AND DITCHES

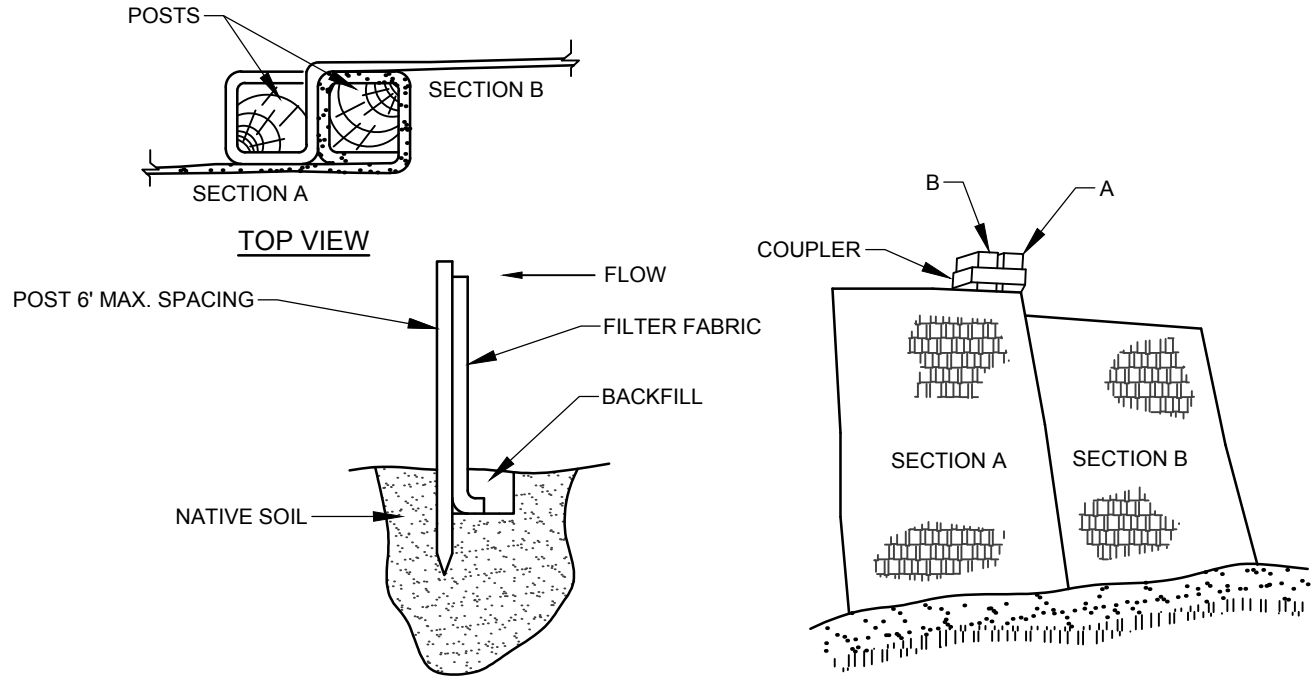
SLOPES SHALL NOT BE LEFT EXPOSED FOR ANY EXTENDED TIME OF WORK SUSPENSION UNLESS FULLY MULCHED AND ANCHORED WITH PEG AND NETTING OR WITH EROSION CONTROL BLANKETS. MULCHING SHALL BE APPLIED AT A RATE OF 230 LBS/1,000 S.F. ON ALL SLOPES GREATER THAN 8%. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3% FOR SLOPES EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GREATER THAN 5%. EROSION CONTROL BLANKETS SHALL BE USED IN LIEU OF MULCH IN ALL DRAINAGE WAYS WITH SLOPES 8%. EROSION CONTROL MIX CAN BE USED TO SUBSTITUTE EROSION CONTROL BLANKETS ON ALL SLOPES EXCEPT DITCHES.

6. SEEDING

BETWEEN THE DATES OF OCTOBER 15 AND APRIL 1ST, LOAM OR SEED WILL NOT BE REQUIRED. DURING PERIODS OF ABOVE FREEZING TEMPERATURES FINISHED AREAS SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDED AND MULCHED UNTIL SUCH TIME AS THE FINAL TREATMENT CAN BE APPLIED. IF THE DATE IS AFTER NOVEMBER 1ST AND IF THE EXPOSED AREA HAS BEEN LOAMED, FINAL GRADED WITH A UNIFORM SURFACE, THEN THE AREA MAY BE DORMANT SEEDED AT A RATE OF 3 TIMES HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED. DORMANT SEEDED MAY BE SELECTED TO BE PLACED PRIOR TO THE PLACEMENT OF MULCH AND FABRIC NETTING ANCHORED WITH STAPLES. IF DORMANT SEEDED IS USED FOR THE SITE, ALL DISTURBED AREAS SHALL RECEIVE 4" OF LOAM AND SEED AT AN APPLICATION RATE OF 5 LBS/1,000 S.F. ALL AREAS SEEDED DURING THE WINTER WILL BE INSPECTED IN THE SPRING FOR ADEQUATE CATCH. ALL AREAS SUFFICIENTLY VEGETATED (LESS THAN 75% CATCH) SHALL BE REVEGETATED BY REPLACING LOAM, SEED AND MULCH. IF DORMANT SEEDED IS NOT USED FOR THE SITE, ALL DISTURBED AREAS SHALL BE REVEGETATED IN THE SPRING. SEED TYPE SHALL BE WINTER RYE.

7. INSPECTION AND MONITORING

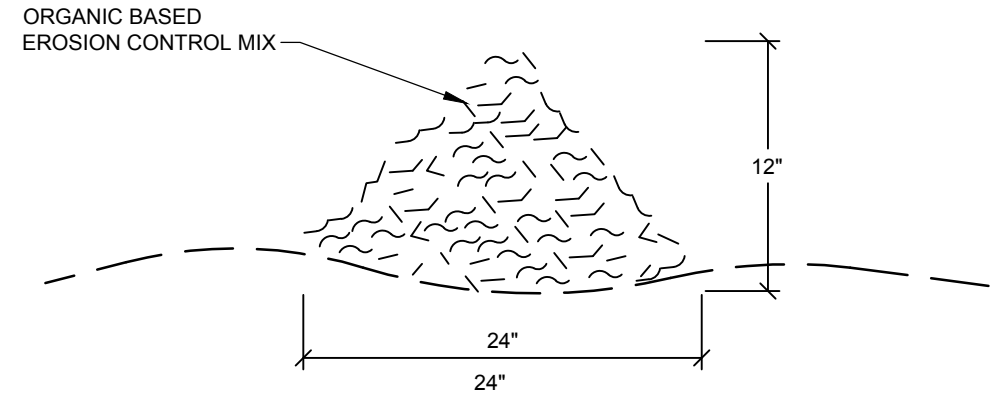
MAINTENANCE MEASURES SHALL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION SEASON. AT A MINIMUM, AFTER EACH RAINFALL, SNOW STORM OR PERIOD OF THAWING AND RUNOFF, THE SITE CONTRACTOR SHALL PERFORM A VISUAL INSPECTION OF ALL



- INSTALLATION:**
- EXCAVATE A 6" x 6" TRENCH ALONG THE LINE OF PLACEMENT FOR THE FILTER BARRIER.
 - UNROLL A SECTION AT A TIME AND POSITION THE POSTS AGAINST THE BACK (DOWNSTREAM) WALL OF THE TRENCH.
 - DRIVE POSTS INTO THE GROUND UNTIL APPROXIMATELY 2" OF FABRIC IS LYING ON THE TRENCH BOTTOM.
 - LAY THE TOE-IN FLAP OF FABRIC ONTO THE UNDISTURBED BOTTOM OF THE TRENCH. BACKFILL THE TRENCH AND TAMP THE SOIL. TOE-IN CAN ALSO BE ACCOMPLISHED BY LAYING THE FABRIC FLAP ON UNDISTURBED GROUND AND PILING AND TAMPING FILL AT THE BASE, BUT MUST BE ACCOMPANIED BY AN INTERCEPTION DITCH.
 - JOIN SECTION AS SHOWN ABOVE.
 - BARRIER SHALL BE MIRAFI SILT FENCE OR EQUAL.

FILTER BARRIER

NOT TO SCALE

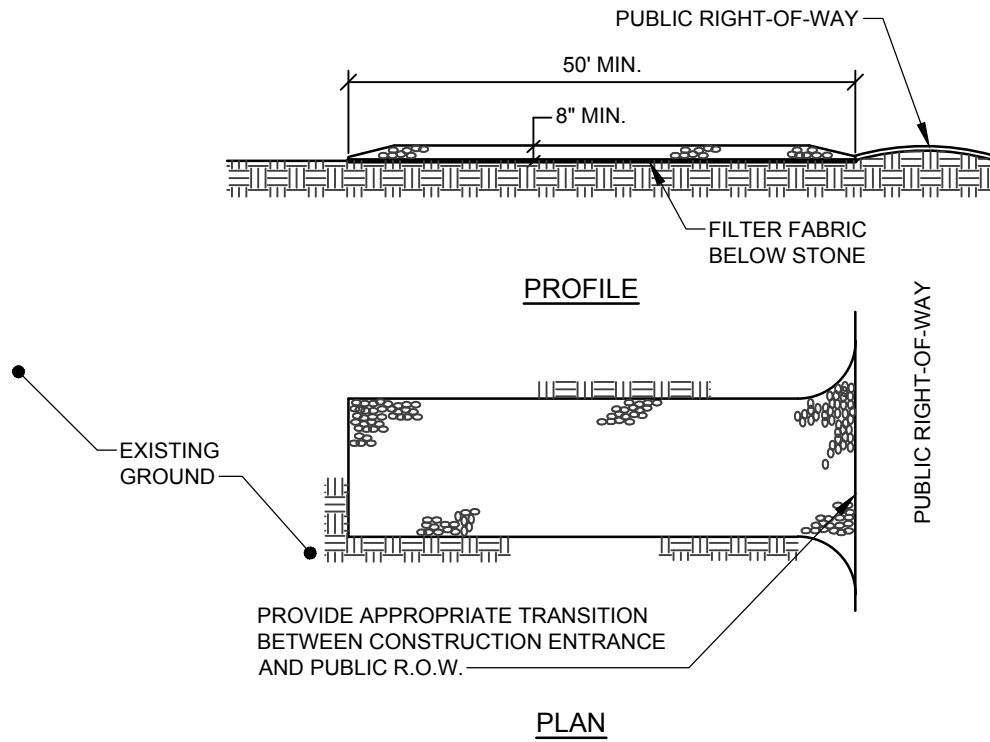


COMPOSITION:
EROSION CONTROL MIX SHALL BE MANUFACTURED ON OR OFF THE PROJECT SITE SUCH THAT ITS COMPOSITION IS IN ACCORDANCE WITH THE MDEP MAINE EROSION AND SEDIMENT CONTROL BMP MANUAL, LAST REVISED 3/2003 OR LATER. IT MUST CONSIST PRIMARILY OF ORGANIC MATERIAL, SEPARATED AT THE POINT OF GENERATION, AND MAY INCLUDE: SHREDDED BARK, STUMP GRINDINGS, COMPOSTED BARK, OR ACCEPTABLE MANUFACTURED PRODUCTS. WOOD AND BARK CHIPS, GROUND CONSTRUCTION DEBRIS OR REPROCESSED WOOD PRODUCTS WILL NOT BE ACCEPTABLE AS THE ORGANIC COMPONENT OF THE MIX.

- INSTALLATION:**
- THE BARRIER MUST BE PLACED ACROSS THE SLOPE, ALONG THE CONTOUR.
 - EXISTING GROUND SHALL BE PREPARED SUCH THAT THE BARRIER MAY LIE NEARLY FLAT ALONG THE GROUND TO AVOID THE CREATION OF VOIDS AND BRIDGES IN ORDER TO MINIMIZE THE POTENTIAL OF WASH OUTS UNDER THE BARRIER
 - THE BARRIER SHALL BE A MINIMUM OF 1 FOOT HIGH (AS MEASURED ON THE UPSHILL SIDE) AND 2 FEET WIDE FOR SLOPES LESS THAN 5% IN GRADE AND SHALL BE WIDER TO ACCOMMODATE THE ADDITIONAL RUNOFF.
 - EROSION CONTROL MIX CAN BE INSTALLED WHERE SILT FENCE IS ILLUSTRATED ON THE DESIGN PLANS IN AREAS EXCEPT IN, BUT NOT LIMITED TO, THE FOLLOWING AREAS: WETLAND AREAS, AT POINTS OF CONCENTRATED FLOW, BELOW CULVERT OUTLET APRONS, AROUND CATCH BASINS AND CLOSED STORM SYSTEMS AND AT THE BOTTOM OF STEEP SLOPES THAT ARE MORE THAN 50 FEET FROM TOP TO BOTTOM.

EROSION CONTROL MIX BERM

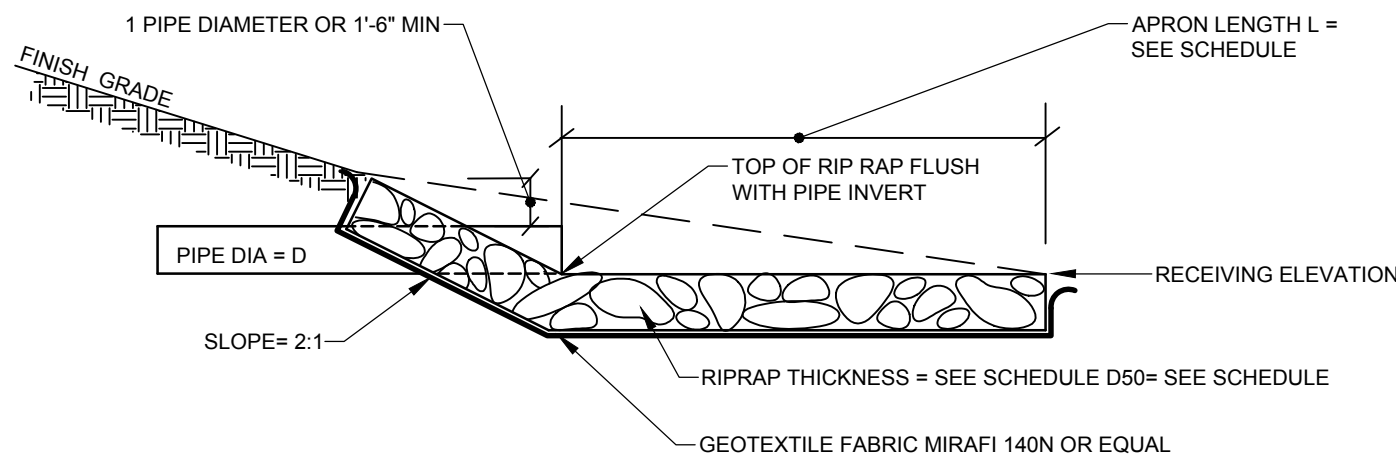
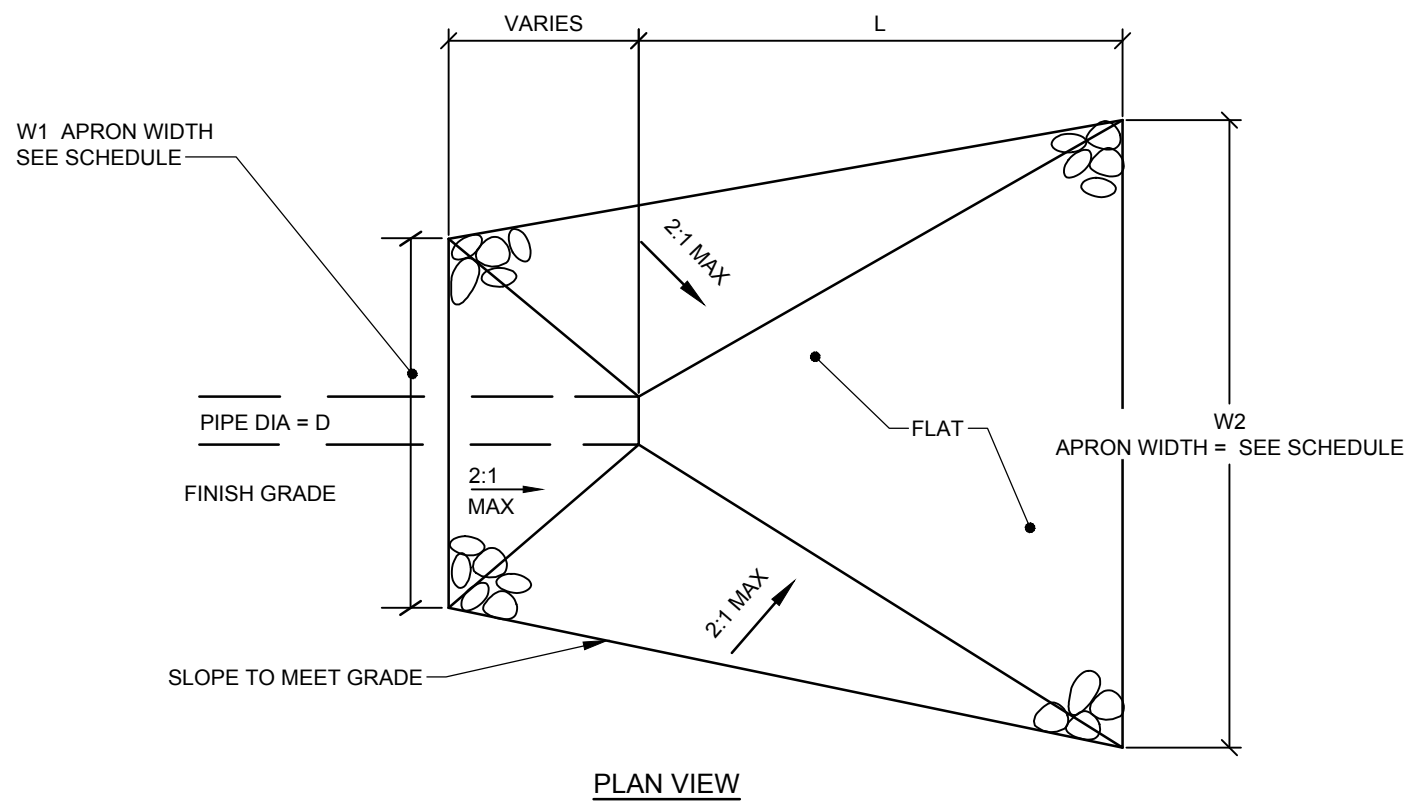
NOT TO SCALE



- NOTES:**
- STONE SIZE- AASHTO DESIGNATION M43, SIZE NO. 2 (2 1/2" TO 1 1/2"). USE CRUSHED STONE.
 - LENGTH- AS SHOWN ON PLANS, MIN. 50 FEET.
 - THICKNESS- NOT LESS THAN EIGHT (8) INCHES.
 - WIDTH- NOT LESS THAN FULL WIDTH OF ALL POINT OF INGRESS OR EGRESS.
 - MAINTENANCE- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.

STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE



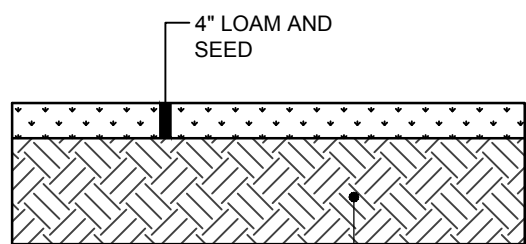
TYPICAL RIPRAP APRON SCHEDULE

| CULVERT DIAMETER - D (IN.) | APRON LENGTH - L (FT.) | WIDTH - W1 (FT.) | WIDTH - W2 (FT.) | RIPRAP D50 (IN.) | RIPRAP THICKNESS (IN.) |
|----------------------------|------------------------|------------------|------------------|------------------|------------------------|
| 12 | 8 | 3 | 9 | 6 | 14 |
| 15 | 10 | 4 | 12 | 6 | 14 |
| 18 | 13 | 5 | 15 | 7 | 16 |
| 24 | 18 | 6 | 20 | 8 | 18 |
| 36 | 29 | 9 | 32 | 11 | 25 |
| 42 | 33 | 11 | 37 | 12 | 27 |
| 48 | 39 | 12 | 43 | 16 | 36 |

- NOTES:**
- RIPRAP TO BE PROCESSED ANGULAR ROCK.
 - RIPRAP GRADATION SHALL BE A WELL GRADED MIX FROM ABOUT 1.5 TIMES D SIZE TO 25 PERCENT OF THE D SIZE.
 - THE RIPRAP STONES SHALL BE CAREFULLY PLACED FROM THE TOE OF THE SLOPE UPWARD.
 - STONES SHALL BE LOWERED TO THE SLOPE AND NOT BE ALLOWED TO DROP MORE THAN 12" ONTO THE GEOTEXTILE.
 - THE FINISHED SURFACE SHALL BE A RELATIVELY SMOOTH, UNIFORMLY SLOPED SURFACE.

RIPRAP APRON

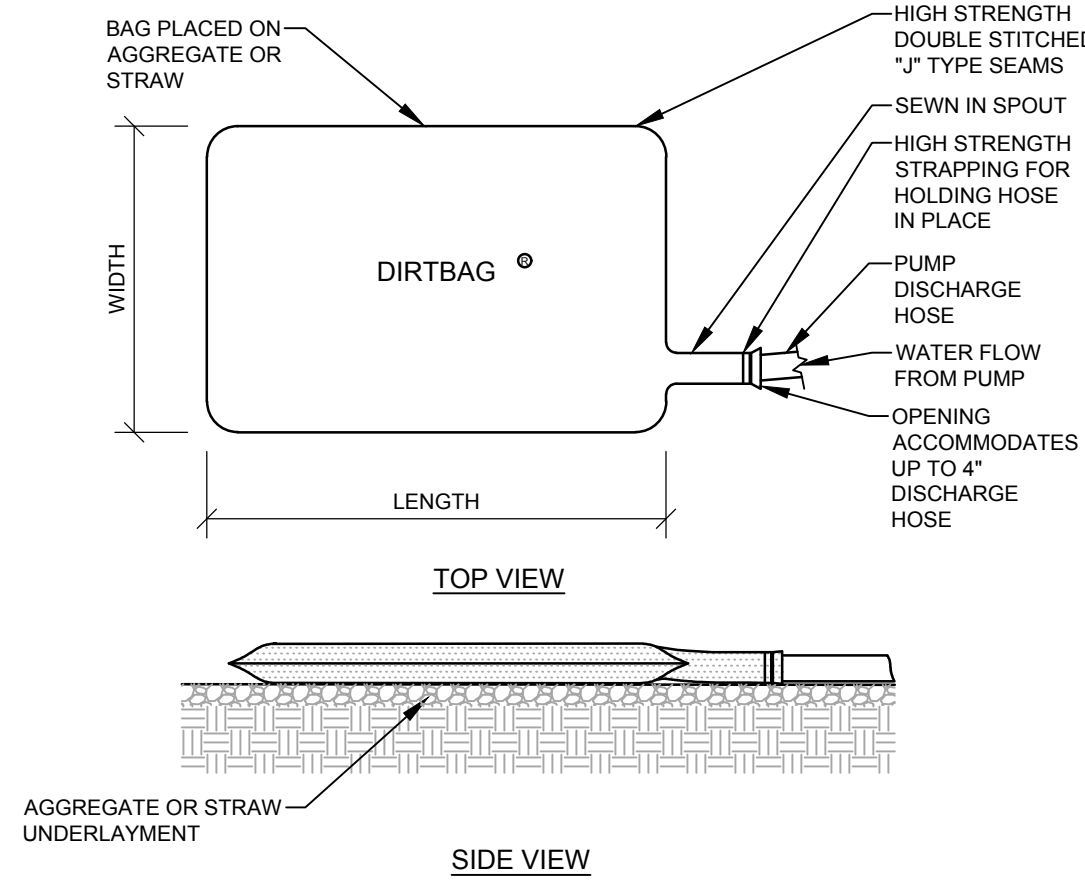
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NOTES:
SEE LANDSCAPE PLANS FOR SEE MIX

LOAM & SEED SECTION

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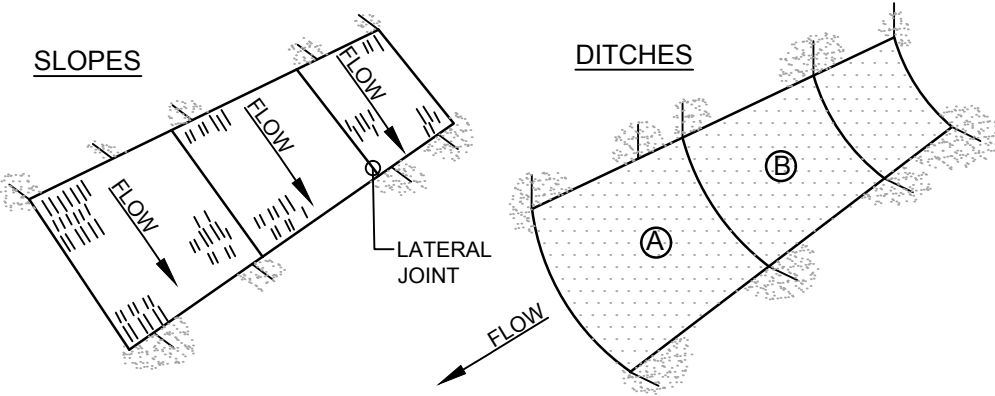


A GEOTEXTILE FIBER IS A PREFABRICATED SACK THAT IS USED TO FILTER SEDIMENTS FROM DEWATERING ACTIVITIES. A FILTER BAG SHOULD BE USED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED GUIDELINES. CONSULT THE DEP IF THE STRUCTURE WILL BE WITHIN 75 FEET OF A PROTECTED NATURAL RESOURCE OR IF SECONDARY CONTAINMENT IS REQUIRED.

- INSTALL THE FILTER BAG PRIOR TO INITIATING ANY ACTIVITIES WHICH WILL REQUIRE DEWATERING.
- THE TYPE OF FABRIC SHOULD BE BASED ON THE SIZE OF SOIL PARTICLES TO BE TRAPPED (I.E. A WOVEN MATERIAL FOR COARSE PARTICLES AND A NONWOVEN MATERIAL FOR FINER PARTICLES).
- A FILTER BAG SHOULD BE LOCATED IN AN AREA MOSTLY LEVEL (WITH LESS THAN 5% SLOPE). A PAD OF CRUSHED GRAVEL MAY BE PROVIDED.
- AVOID DISCHARGING TO AN AREA THAT IS BARE OF VEGETATION OR NEWLY VEGETATED. ANY SIGN OF EROSION OR CHANNELIZATION FROM THE DISCHARGED WATER REQUIRES IMMEDIATE CORRECTION.
- FILTER BAGS HAVE A FINITE CAPACITY FOR SEDIMENT COLLECTION AND MAY BE PRONE TO PLUGGING. AVOID OVER-PRESSURIZING THE BAG OR IT MAY BURST.
- IF A SEDIMENT DISCHARGE IS OBSERVED, INSPECT THE FILTER BAG FOR TEARS OR OTHER MALFUNCTIONS.

DIRTBAG PUMPED SILT CONTROL SYSTEM

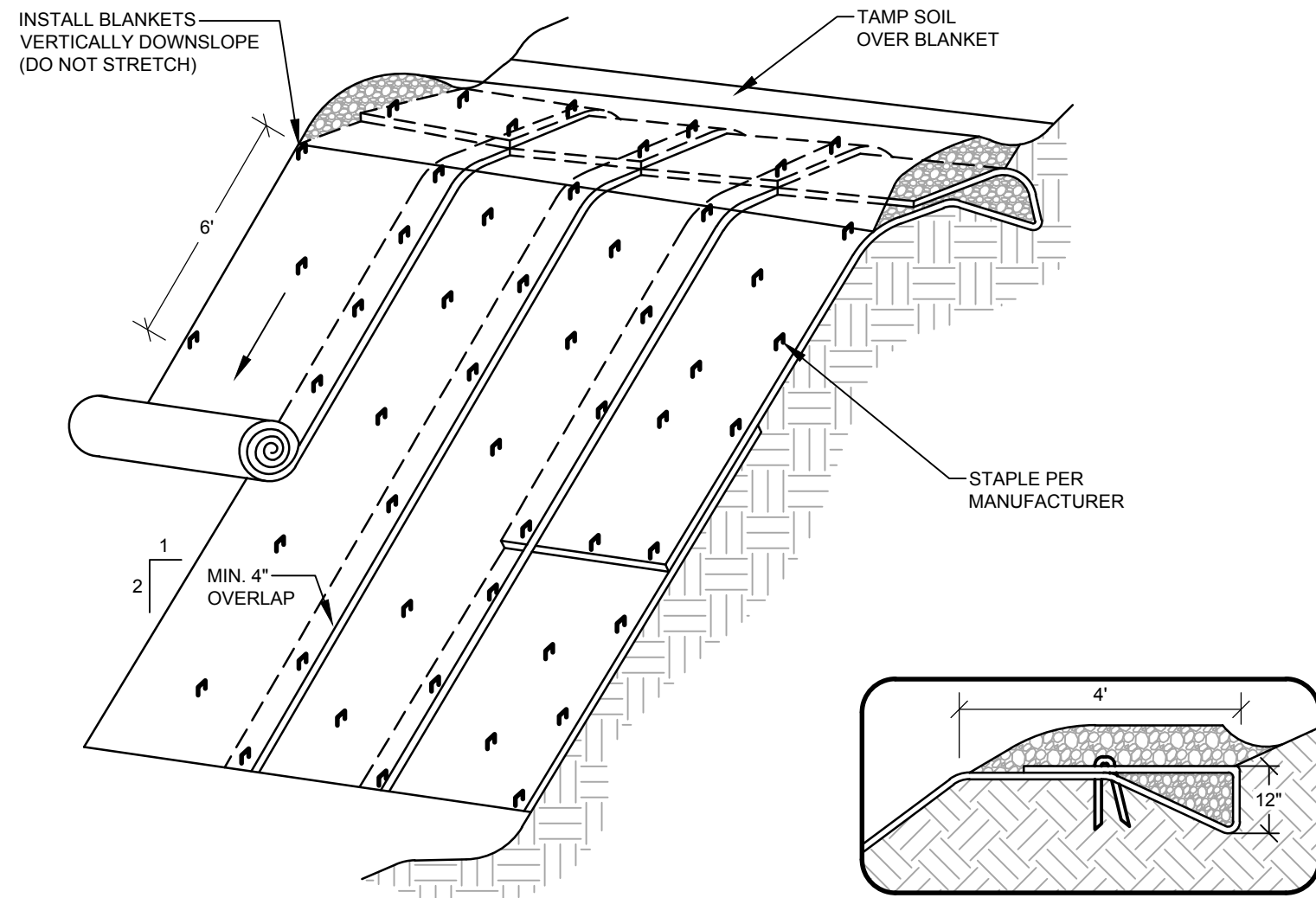
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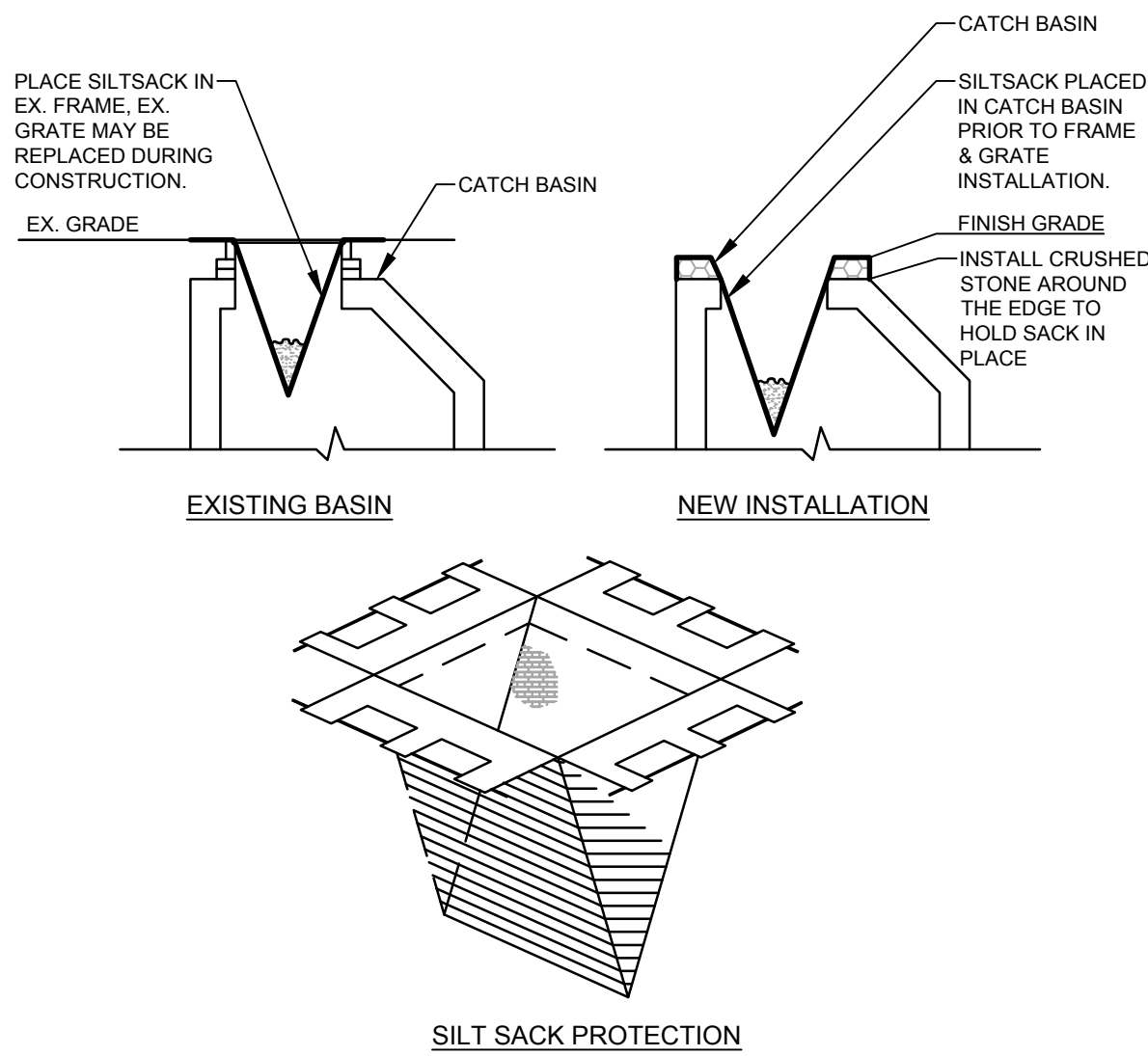
- NOTES:**
- BURY THE TOP END OF THE MESH MATERIAL IN A 6" TRENCH AND BACKFILL AND TAMP TRENCHING SECURE END WITH STAPLES AT 6" SPACING, 4" DOWN FROM EXPOSED END.
 - FLOW DIRECTION JOINTS TO HAVE UPPER END OF LOWER STRIP BURIED WITH UPPER LAYERS OVERLAPPED 4" AND STAPLED. OVERLAP B OVER A.
 - LATERAL JOINTS TO HAVE 4" OVERLAP OF STRIPS. STAPLE 18" ON CENTER.
 - STAPLE OUTSIDE LATERAL EDGE 2" ON CENTER.
 - WIRE STAPLES TO BE MIN OF #11 WIRE 8" LONG AND 1-1/2" WIDE.
 - USE NORTH AMERICAN GREEN DS 150 OR APPROVED EQUAL.

EROSION CONTROL BLANKET

NOT TO SCALE



- CONSTRUCTION SPECIFICATIONS**
- THE SOIL SURFACE SHOULD BE FINELY GRADED AND SMOOTH FOR THE BLANKET TO HAVE DIRECT CONTACT WITH THE SOIL AND TO PREVENT UNDERMINING. EROSION CONTROL BLANKETS PERFORM BEST ON LOAMY SOILS AND SHOULD NOT BE USED ON ROCKY SITES OR SHALLOW SOILS.
 - SEED SHOULD BE SOWN BEFORE INSTALLING THE EROSION CONTROL BLANKET.
 - ALWAYS UNROLL THE BLANKET DOWNHILL WITHOUT STRETCHING AND ANCHOR THE UPSLOPE EDGE IN A 12 INCH DEEP TRENCH THAT IS BACKFILLED AND TAMPED.
 - OVERLAP SHINGLE STYLE A MINIMUM OF 12 INCHES AT THE TOP OF EACH ROW AND 4 INCHES AT THE EDGES OF PARALLEL ROWS. ANCHOR ALONG THE OVERLAP WITH A MAXIMUM SPACING OF 3 FEET OR AS REQUIRED BY THE MANUFACTURER.

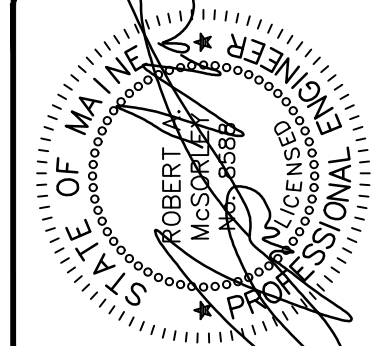


NOTES:
PRIOR TO FINAL GRADING AND PAVING OPERATIONS BEGIN A CATCH BASIN INSERT (SUCH AS A SILT SACK OR A DANDY BAG II) MUST BE INSTALLED IN EACH BASIN PER MANUFACTURES INSTRUCTIONS. HAY BALES SHOULD BE REMOVED ONCE INSERTS ARE INSTALLED.

CATCH BASIN PROTECTION DETAIL

NOT TO SCALE

ROBERT A. INCISOREY, P.E. 6588



| | | | | |
|-----|-----|------------|--------|---|
| REV | BY | DATE | STATUS | LOCAL SUBMISSION TO THE TOWN OF WINDHAM |
| A | RAM | 06/23/2025 | DATE | STATUS |

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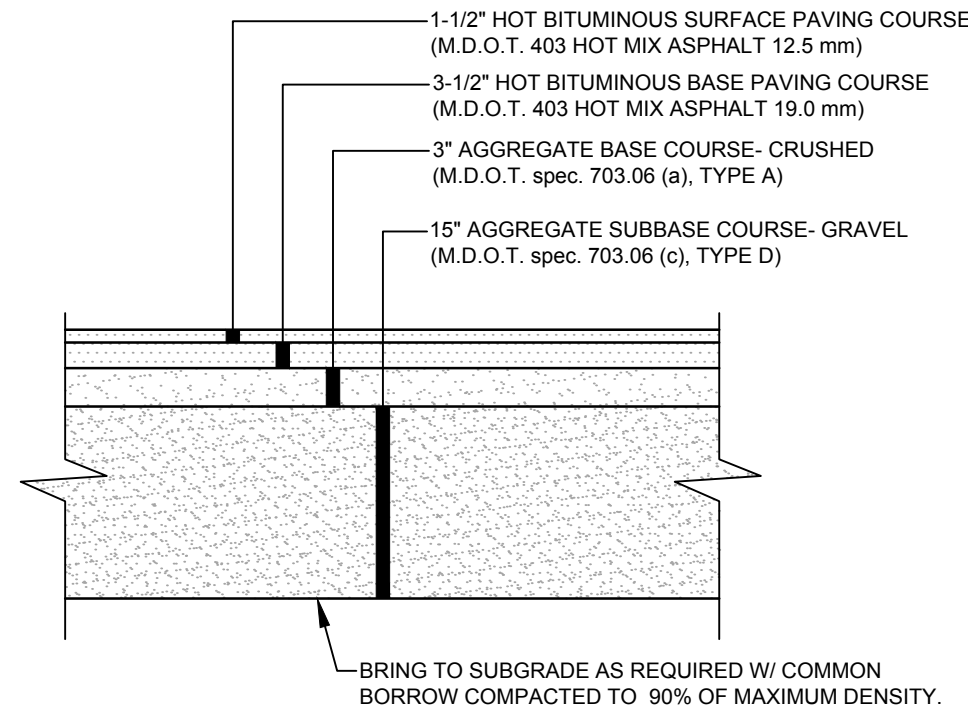
SERAGO TECHNICS
SERAGOTECHNICS.COM
75 John Roberts Rd, Suite 4A
South Portland, ME 04106
207-260-2100
South Portland, Bridgton, Sanford and Bath

DETAILS
OF: FRANKLIN DRIVE MULTI-FAMILY PARCEL
FRANKLIN DRIVE
WINDHAM, ME
FOR: NEW GEN ESTATES, LLC
50 MAINE MALL ROAD
SOUTH PORTLAND, ME 04106

| | |
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| DESIGNED | KPW |
| DRAWN | EPR |
| CHECKED | RAM |
| DATE | 02/13/2025 |
| SCALE | N/A |
| PROJECT | 230411-01 |

SHEET D-501

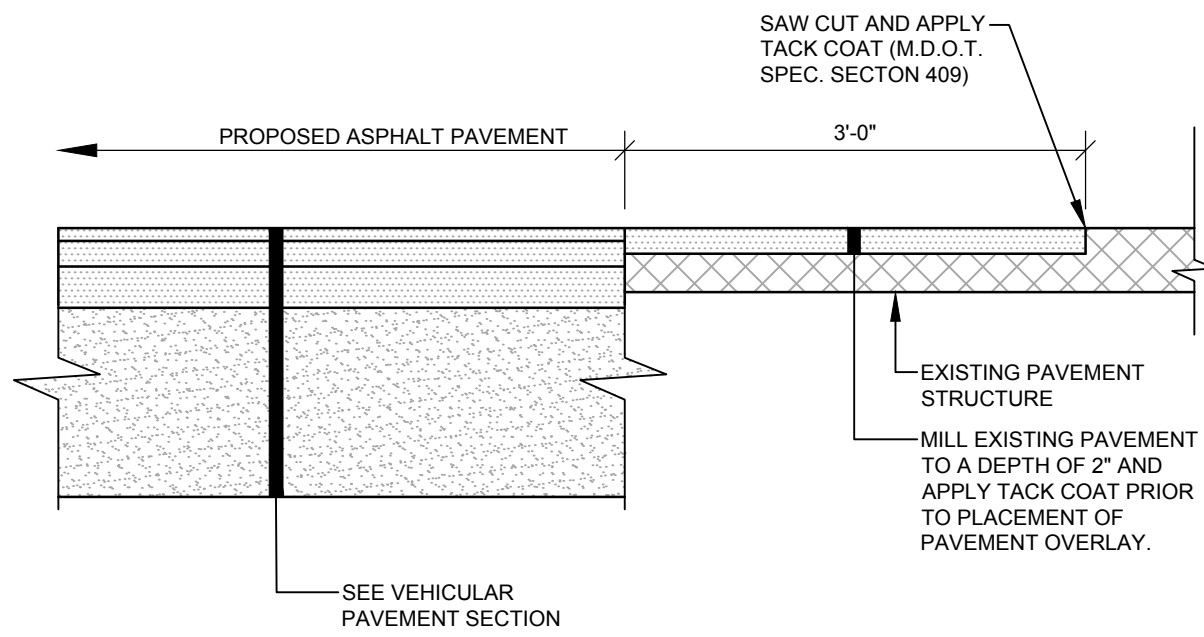
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- NOTES:
1. COMPACT GRAVEL SUBBASE, BASE COURSE TO 95% OF MAXIMUM DENSITY USING HEAVY ROLLER COMPACTION.
 2. CONTRACTOR SHALL SET GRADE STAKES MARKING SUBBASE AND FINISH GRADE ELEVATIONS FOR CONSTRUCTION REFERENCE.

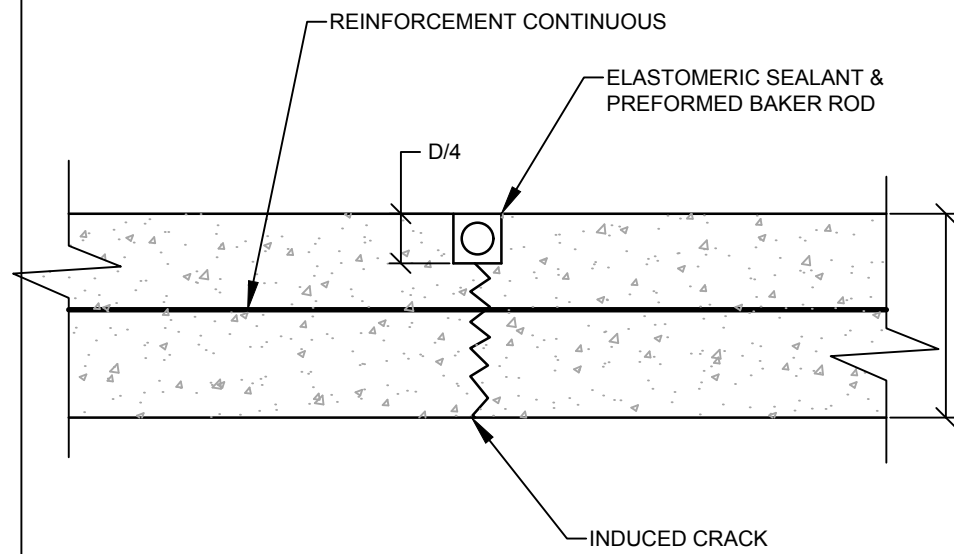
VEHICULAR PAVEMENT

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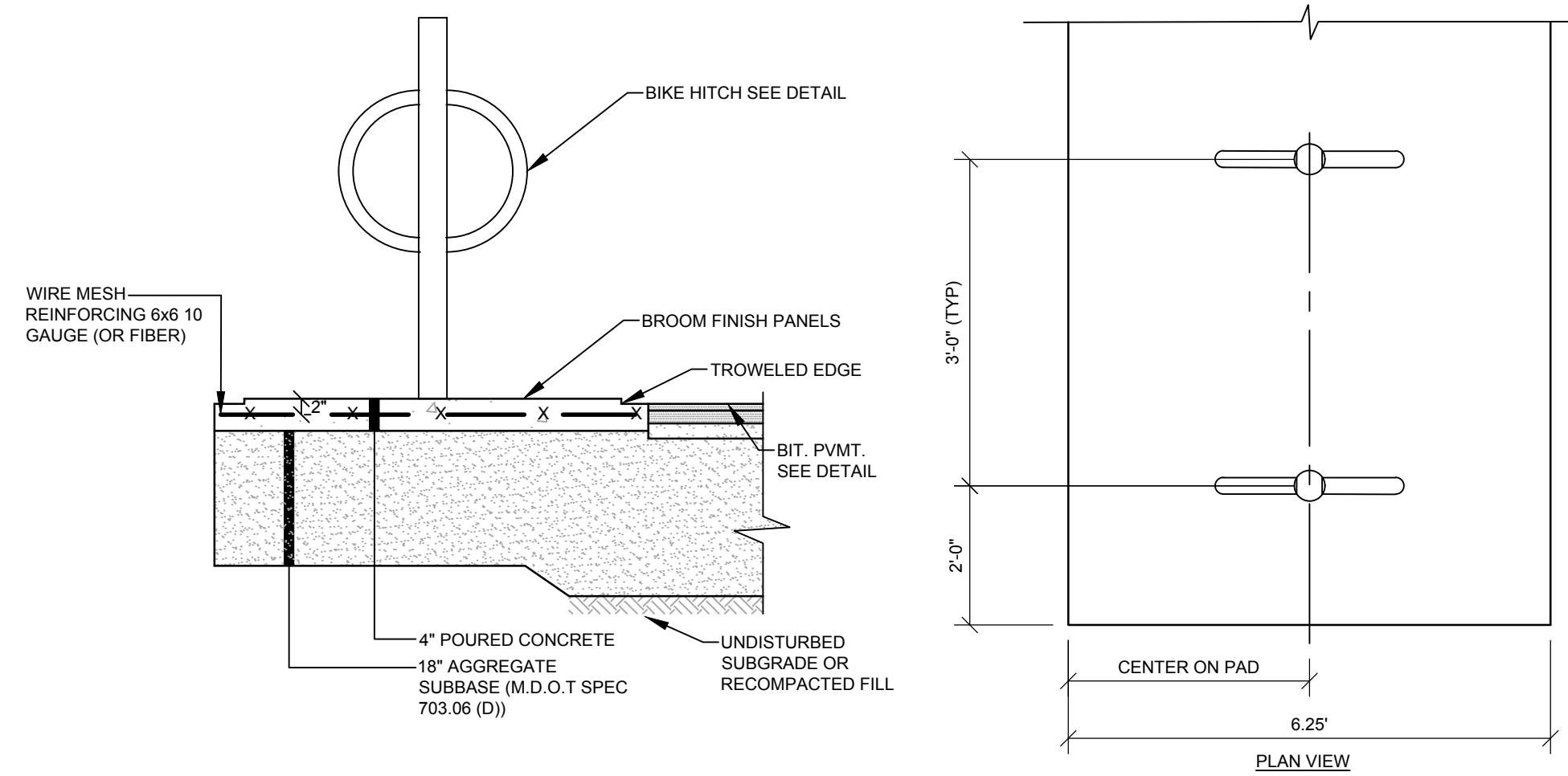
PAVEMENT JOINT

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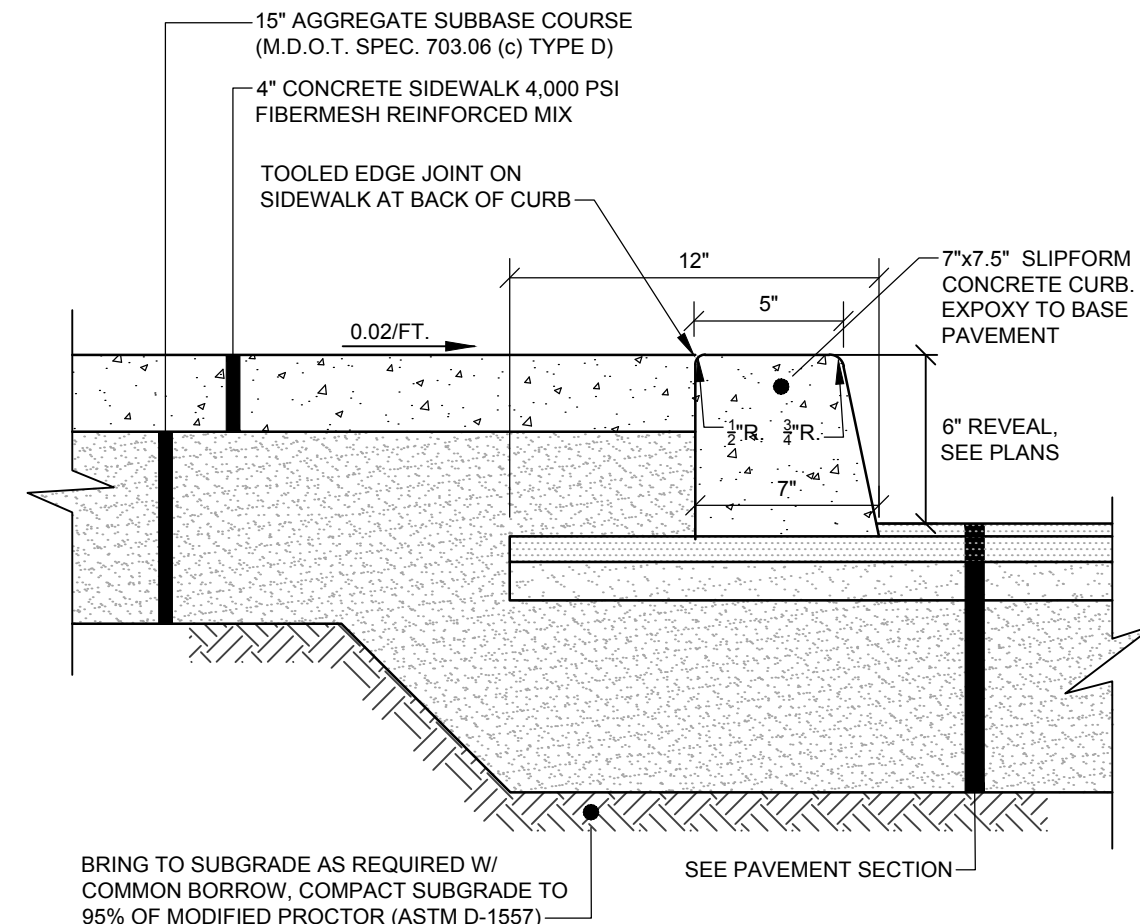
CONTRACTION/CONTROL JOINT

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PAD FOR BICYCLE HITCH

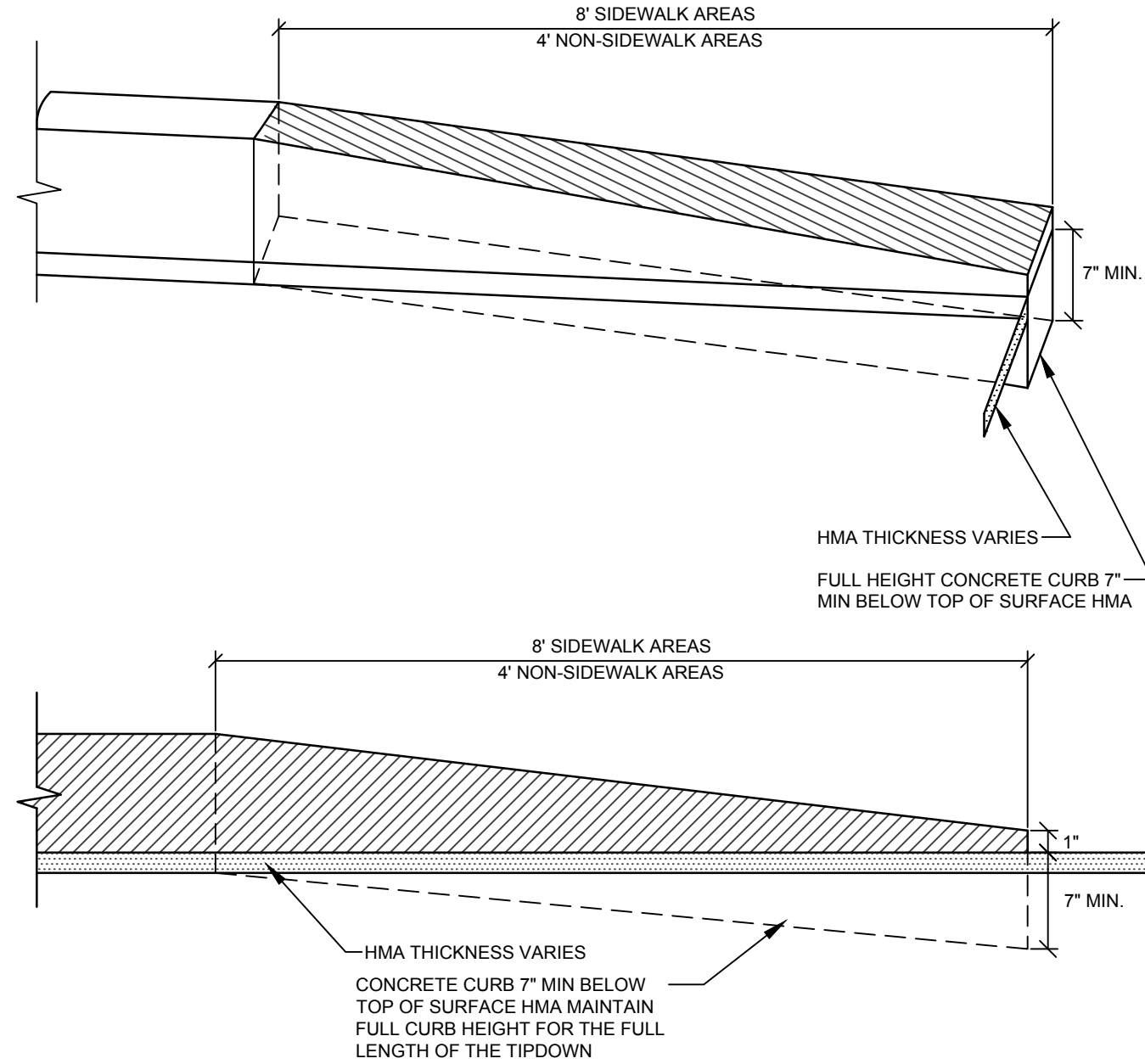
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- NOTES:
1. COMPACT GRAVEL SUBBASE AND BASE COURSES TO 95% OF MAXIMUM DENSITY USING HEAVY ROLLER COMPACTION.
 2. HOT MIX ASPHALT SURFACE COURSE SHALL BE COMPACTED TO 95% OF ITS THEORETICAL MAXIMUM DENSITY (ASTM D-2041). BASE COARSE SHALL BE COMPACTED TO 95% ±2.5% OF ITS THEORETICAL MAXIMUM DENSITY (ASTM D-2041).
 3. APPLY TACK COAT BETWEEN SUCCESSIVE LIFTS OF BITUMINOUS PAVEMENT.
 4. CONTRACTOR SHALL SET GRADE STAKES MARKING SUBBASE AND FINISH GRADE ELEVATIONS FOR CONSTRUCTION REFERENCE.

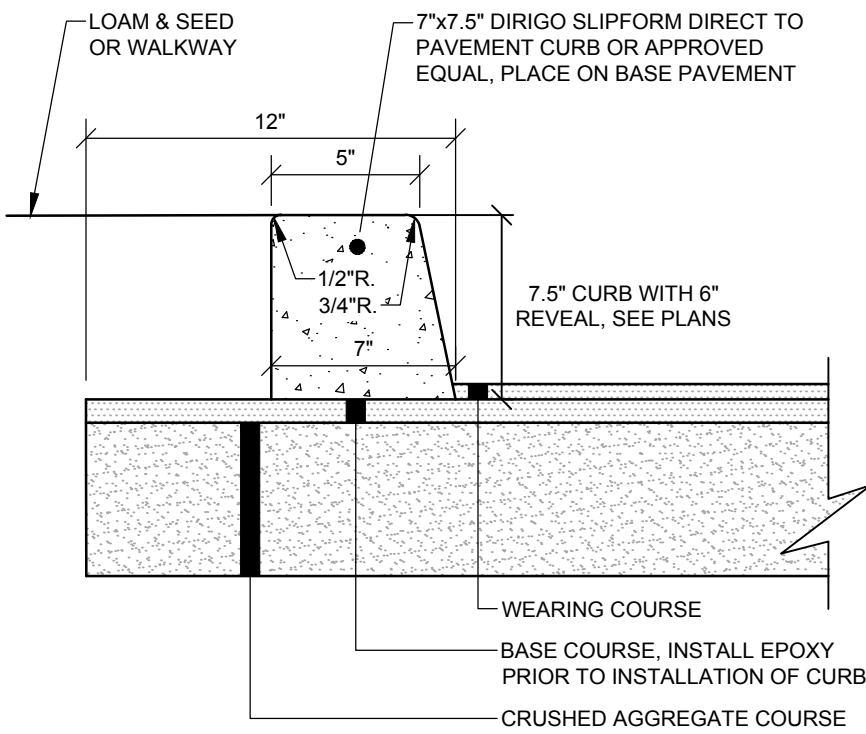
CONCRETE SIDEWALK WITH SLIPFORM CURB

NOT TO SCALE



SLIPFORM CONCRETE CURB TIPDOWN, TYPICAL

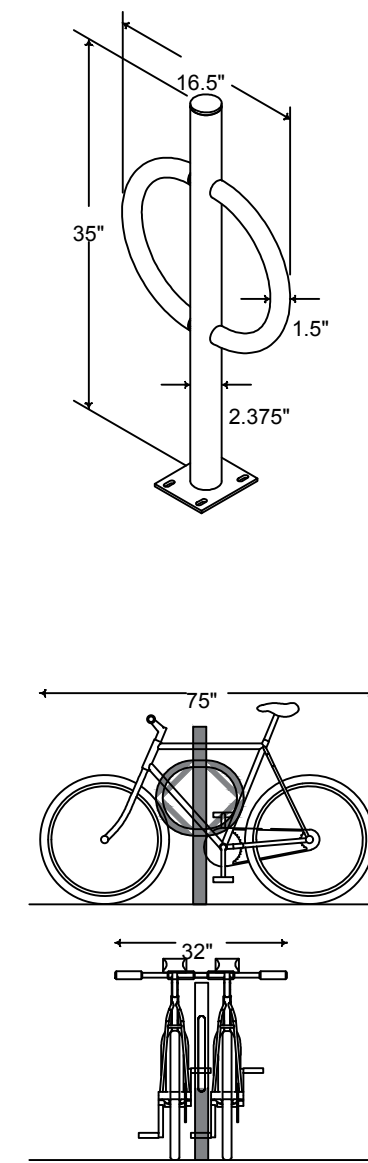
NOT TO SCALE



- NOTES:
1. SEE TYPICAL ACCESS DRIVE SECTION FOR ROADWAY MATERIAL SPECIFICATIONS AND DEPTHS.
 2. 6" TIPDOWNS SHALL BE PROVIDED AS SHOWN ON PLANS.

SLIPFORM CURB SECTION

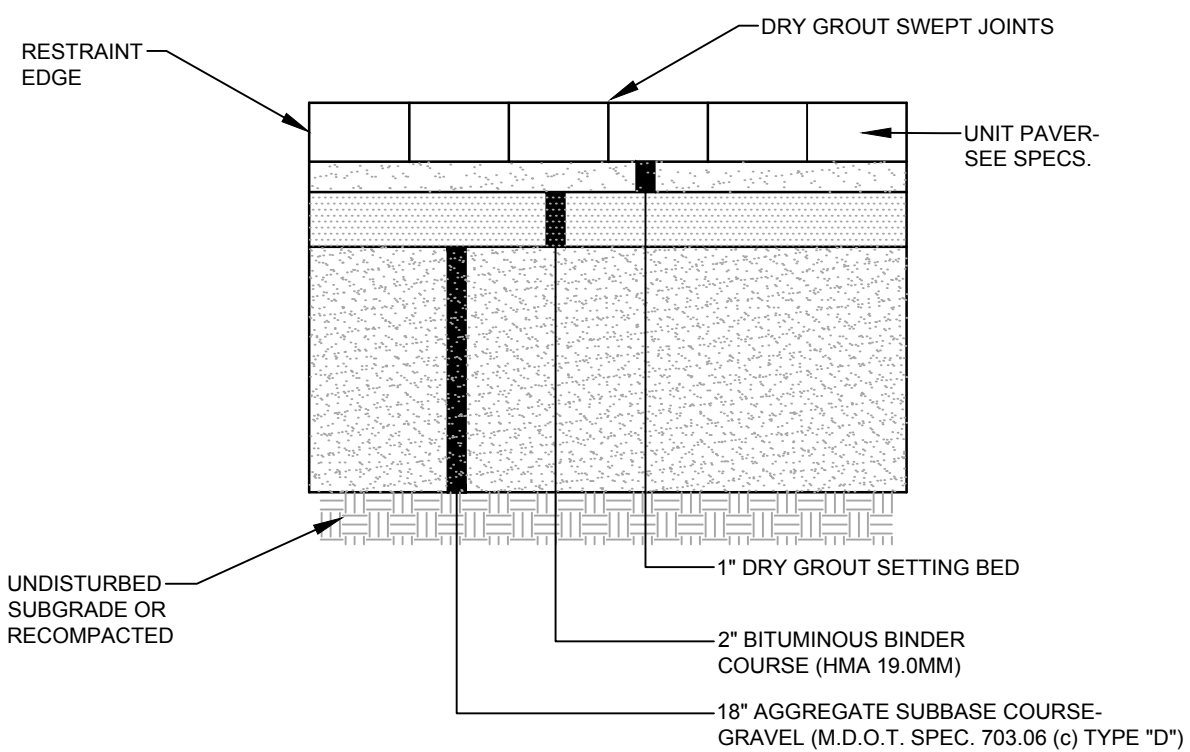
NOT TO SCALE



| | |
|---------------|--|
| CAPACITY | 2 BIKES |
| MATERIALS | CENTERBEAM: 2" SCHEDULE 40 PIPE (2.375" OD) RING: 1.5" OD 11 GAUGE TUBE |
| FINISHES | <input type="checkbox"/> GALVANIZED AN AFTER FABRICATION HOT DIPPED GALVANIZED FINISH IS OUR STANDARD OPTION. <input type="checkbox"/> POWDER COAT OUR POWDER COAT FINISH ASSURES A HIGH LEVEL OF ADHESION AND DURABILITY BY FOLLOWING THESE STEPS: 1. WASH WITH CAL CLEAN 947 PREMIUM ALKALINE CLEANER/ DEGREASER AND TREAT WITH ADVANTECH P610A ZIRCONIUM FOR CORROSION REDUCTION AND PAINT ADHESION 2. EPOXY PRIMER ELECTROSTATICALLY APPLIED 3. FINAL THICK TGIC POLYESTER POWDER COAT <input type="checkbox"/> STAINLESS STAINLESS STEEL: 304 GRADE STAINLESS STEEL MATERIAL IN A SATIN FINISH, HIGH POLISHED SHINE, OR POWDER COAT OVER UNPOLISHED STAINLESS. <input type="checkbox"/> SATIN FINISH (#4) - BRUSHED (OUR STANDARD) <input type="checkbox"/> ELECTROPOLISHED - HIGH POLISHED SHINE <input type="checkbox"/> POWDER COAT OVER UNPOLISHED STAINLESS |
| MOUNT OPTIONS | <input type="checkbox"/> SURFACE FOOT MOUNT HAS A 5" X 6" X .25" FOOT WITH FOUR ANCHORS PER FOOT. SPECIFY FOOT MOUNT FOR THIS OPTION. TAMPER-RESISTANT FASTENERS AVAILABLE UPON REQUEST |

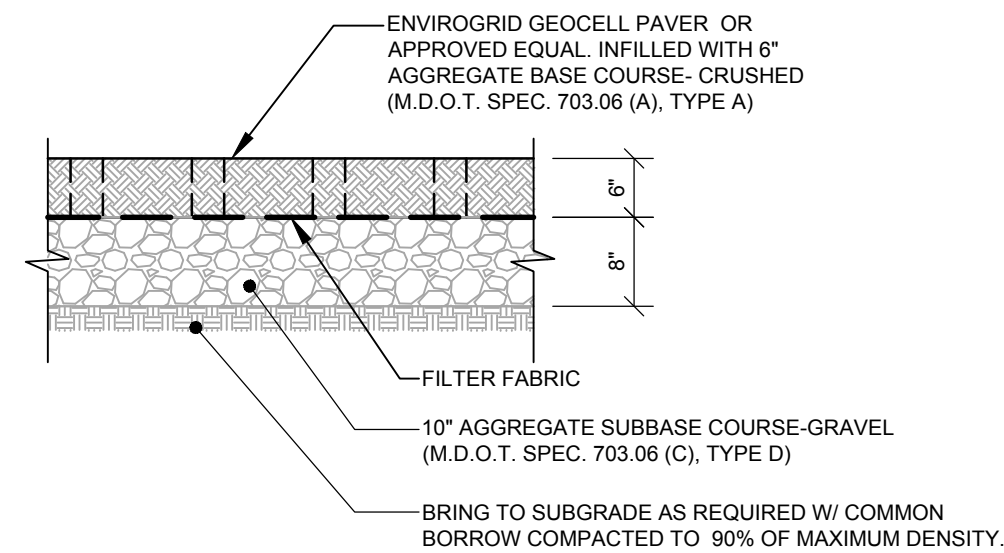
BIKE RACK

NOT TO SCALE



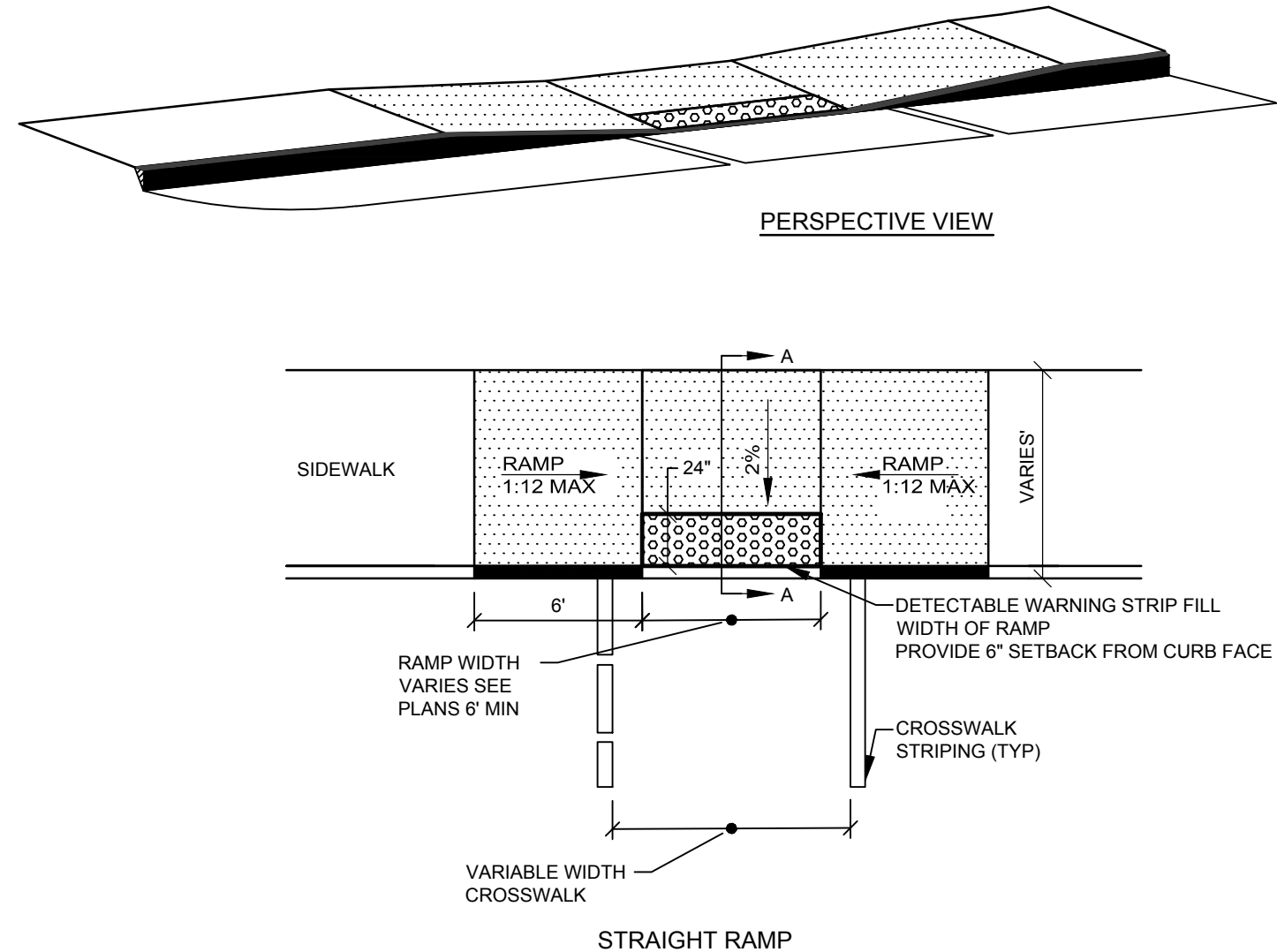
UNIT PAVER

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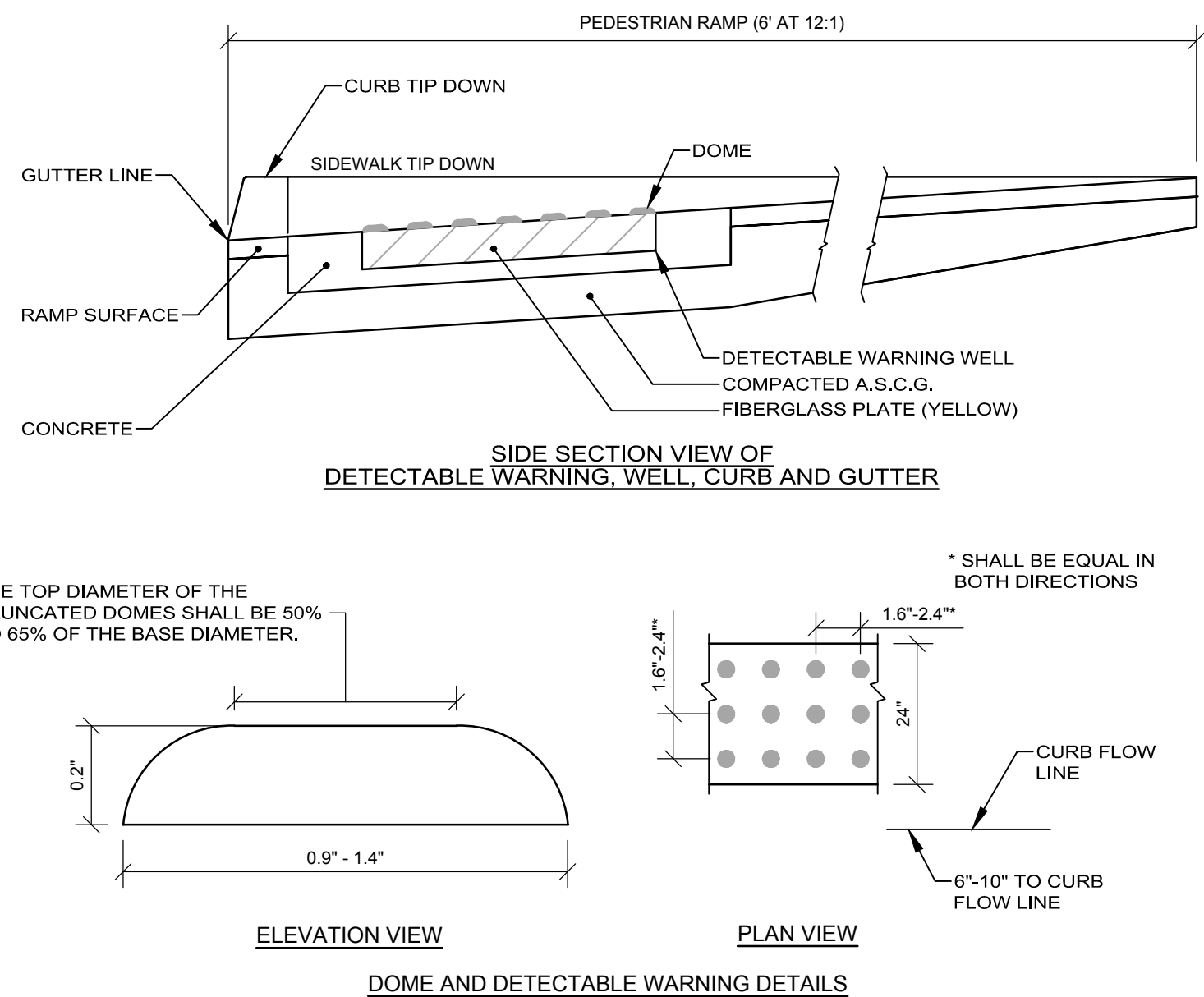
TRAIL SECTION

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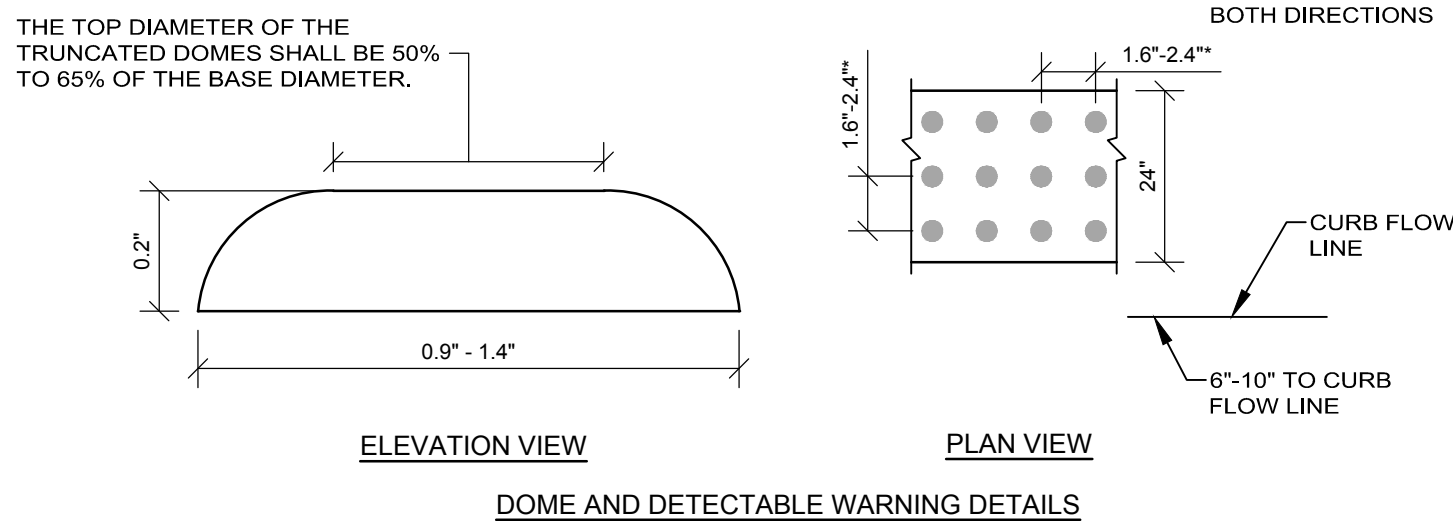


PEDESTRIAN RAMPS

NOT TO SCALE



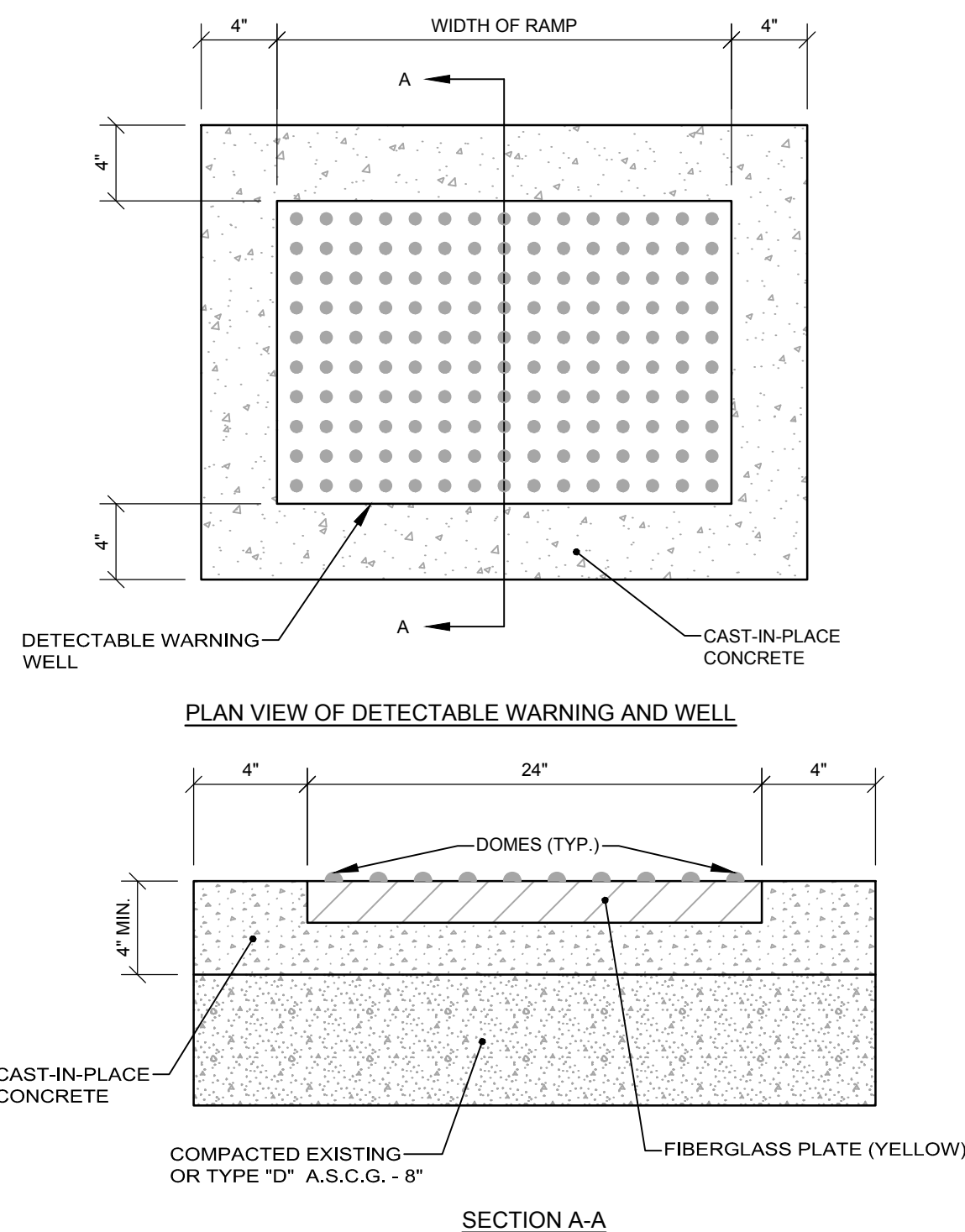
SIDE SECTION VIEW OF DETECTABLE WARNING, WELL, CURB AND GUTTER



NOTE: ALL DETECTABLE WARNING AREAS SHALL START 6" - 10" FROM THE FLOW LINE OF THE CURB, BE 24" IN DEPTH, AND COVER THE COMPLETE WIDTH OF THE RAMP AREA ONLY.

DETECTABLE WARNING PLATE (TRUNCATED DOME)

NOT TO SCALE



SECTION A-A

DETAILS
OF:
FRANKLIN DRIVE MULTI-FAMILY PARCEL
FRANKLIN DRIVE
WINDHAM, ME
FOR:
NEW GEN ESTATES, LLC
50 MAINE MALL ROAD
SOUTH PORTLAND, ME 04106

| | |
|----------|------------|
| DESIGNED | KPW |
| DRAWN | EPR |
| CHECKED | RAM |
| DATE | 02/13/2025 |
| SCALE | N/A |
| PROJECT | 230411-01 |

SHEET D-503

230411-01 Dwg. TAB Details 3

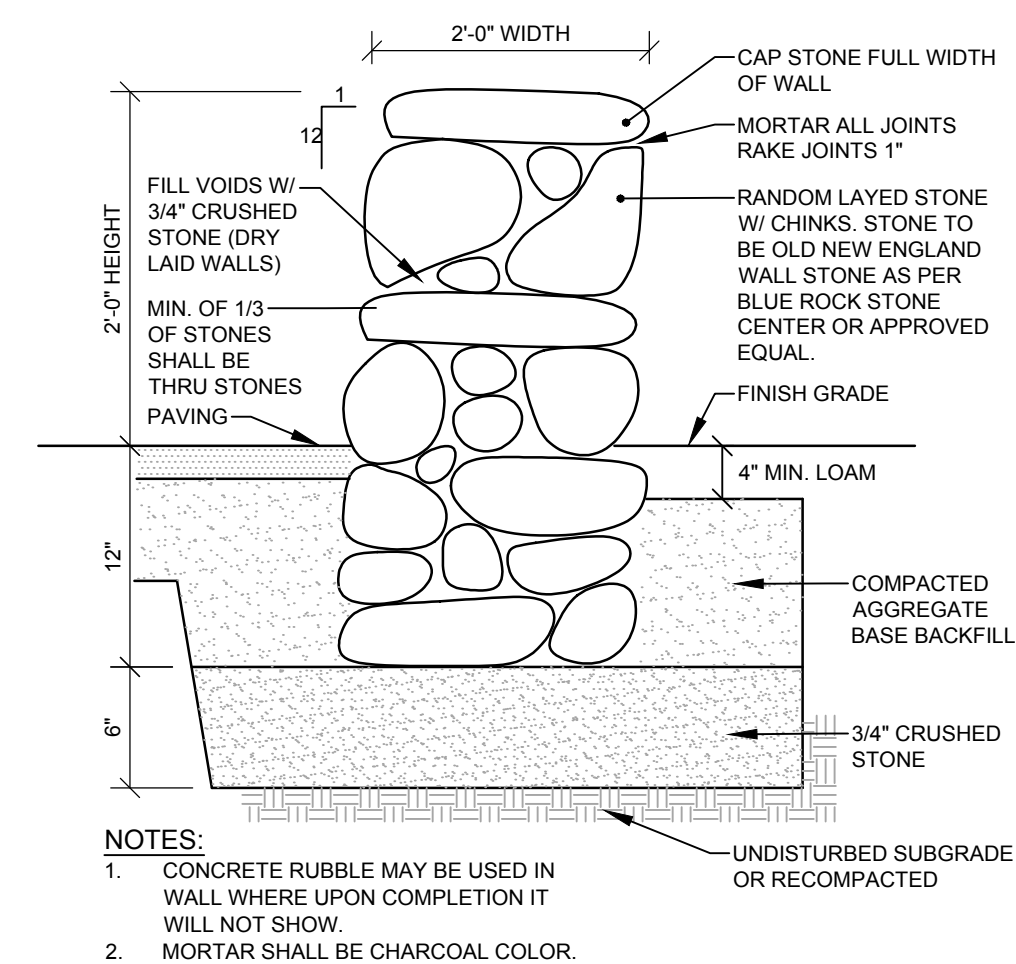
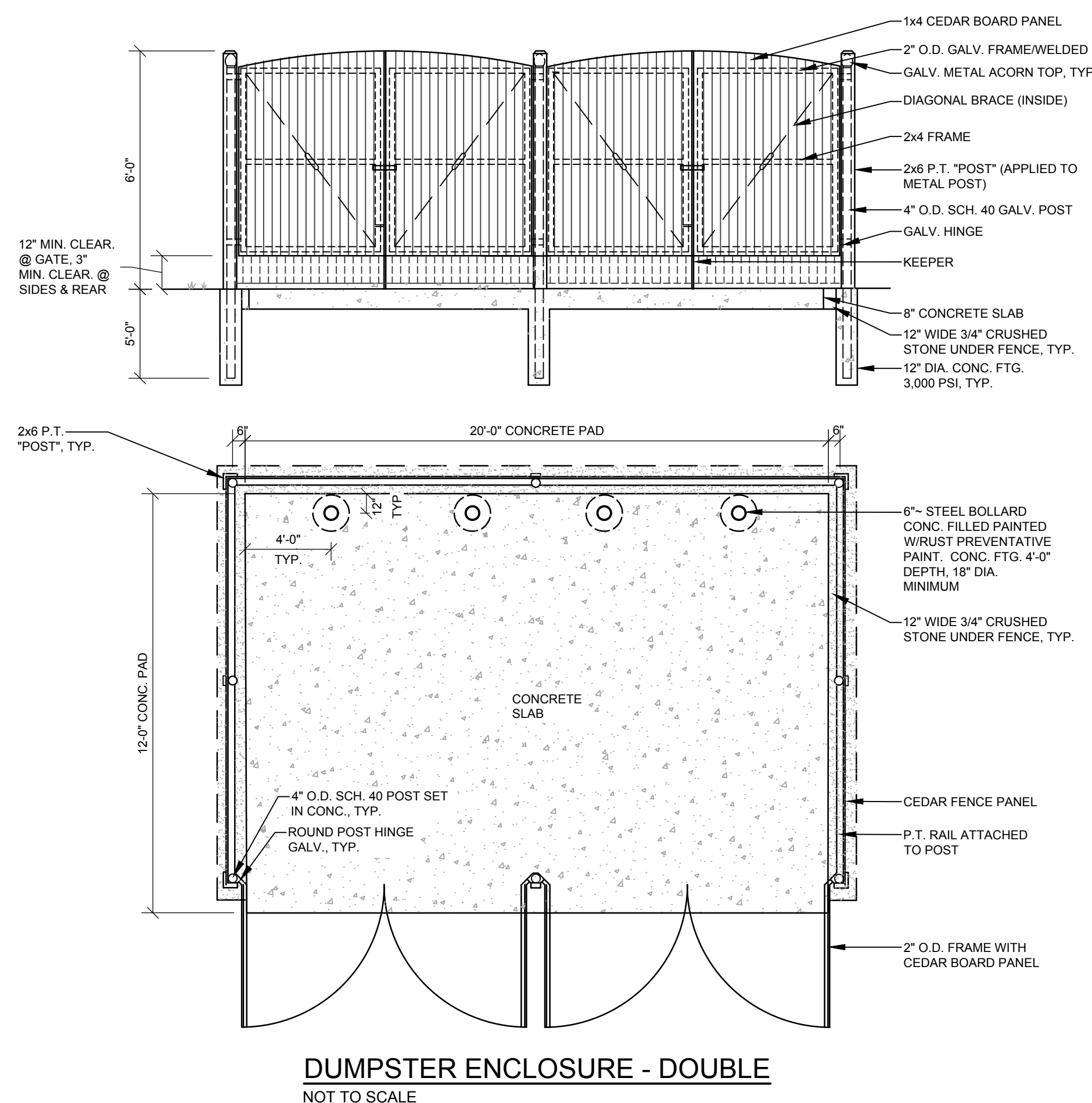
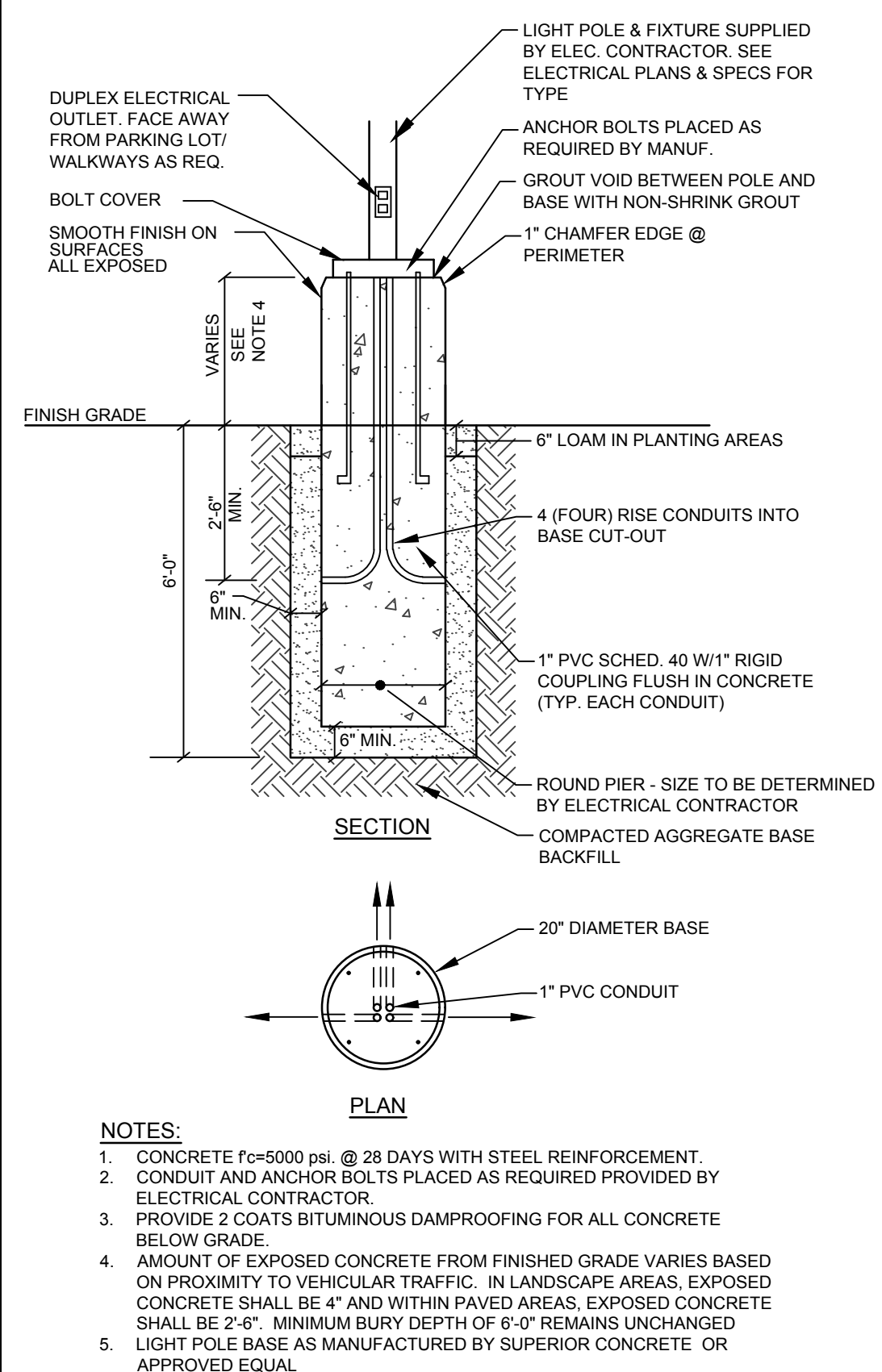
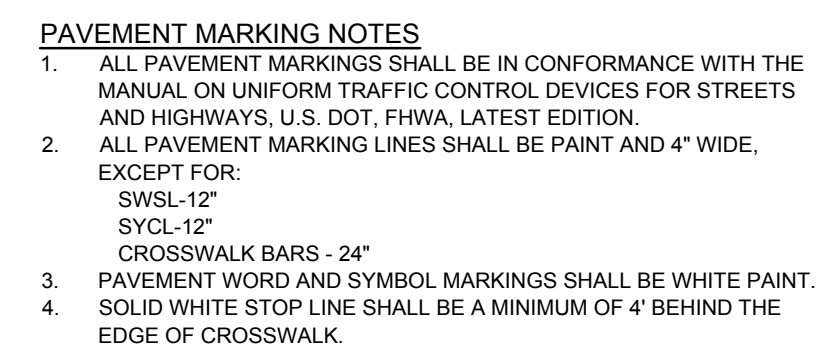
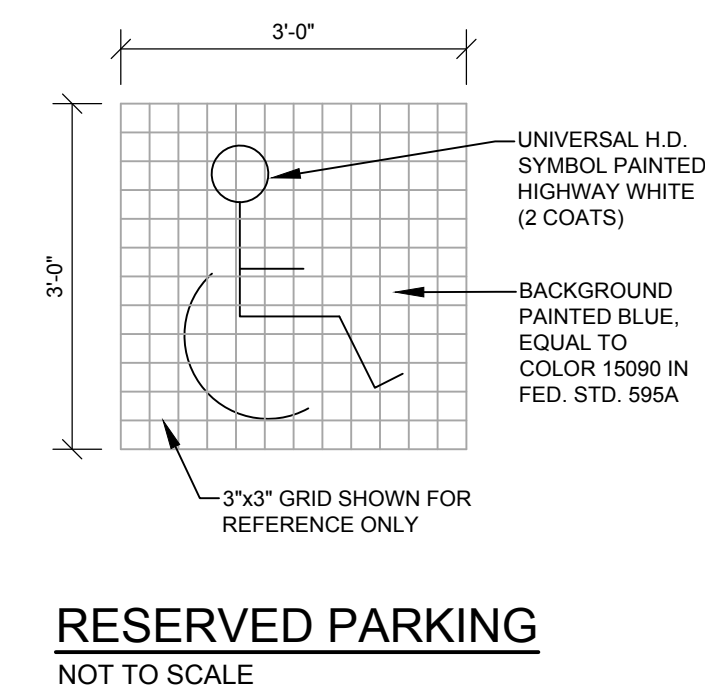
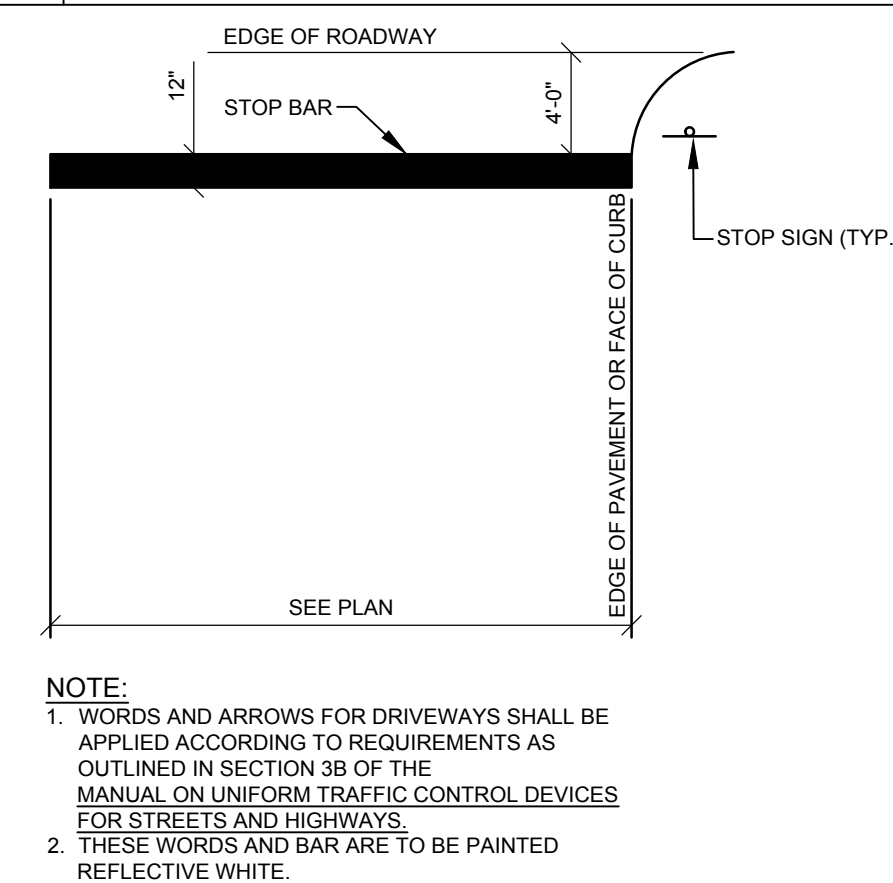
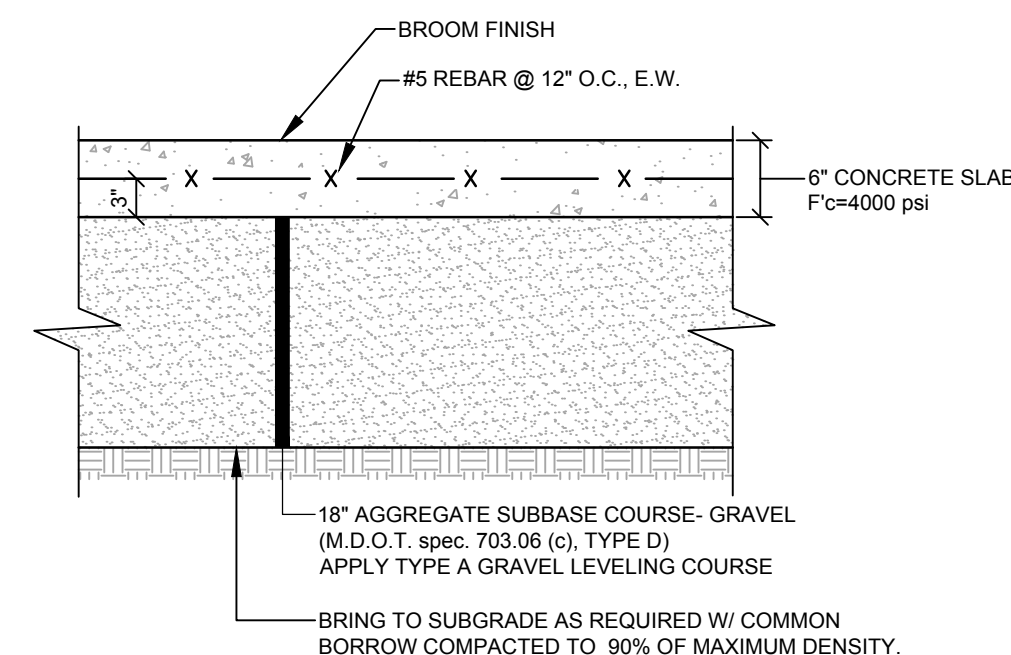
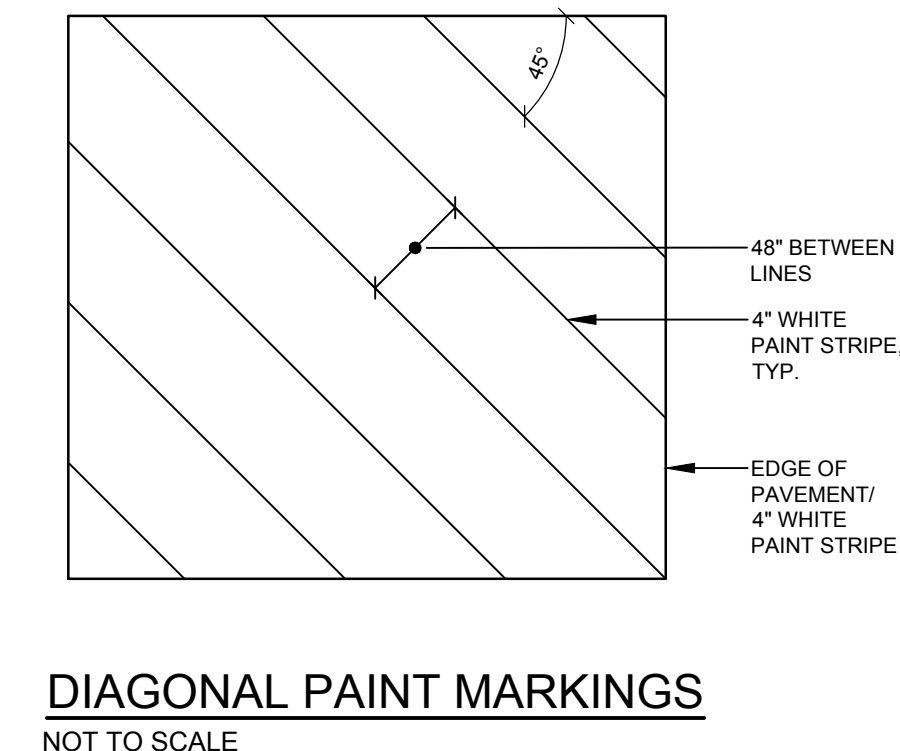
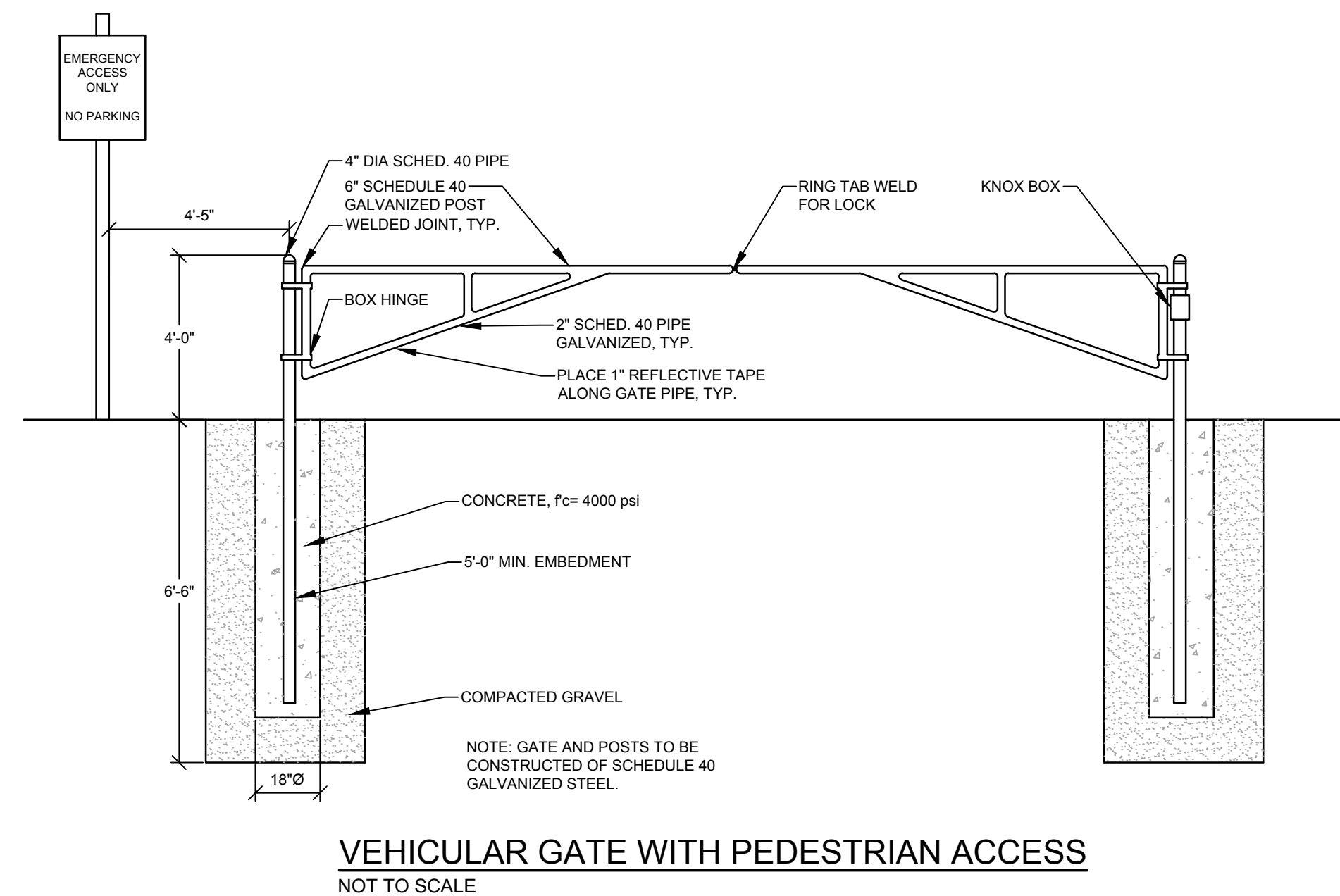
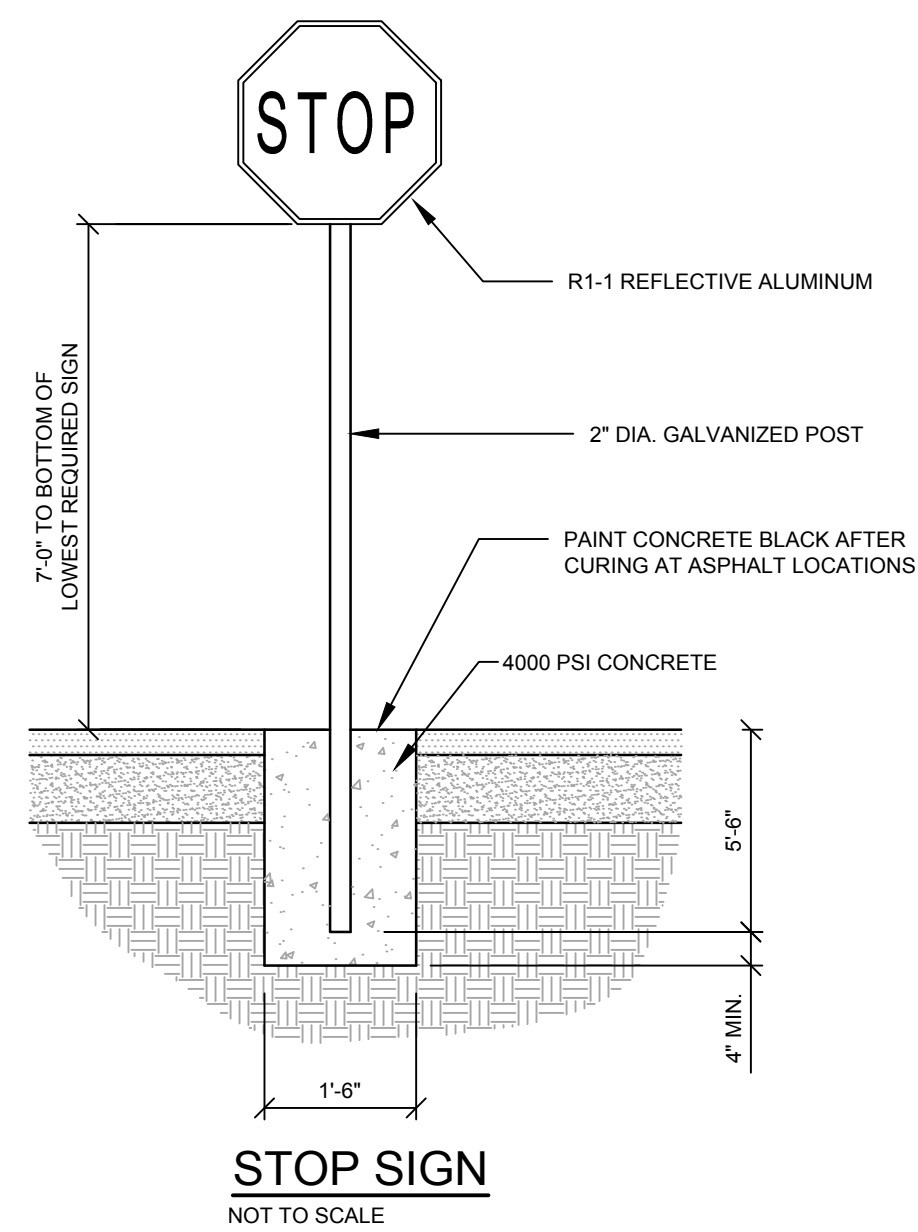
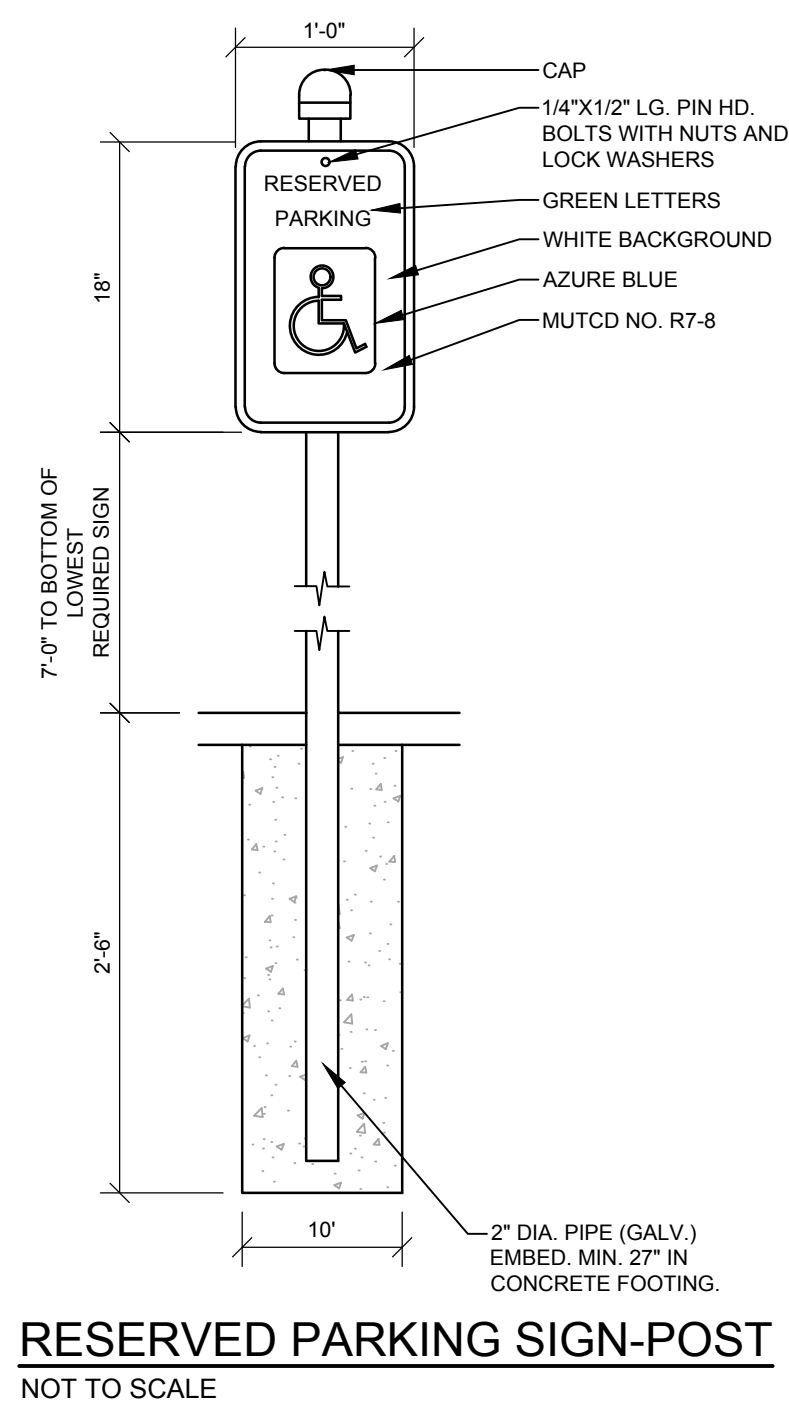
ROBERT A. MCSORLEY, P.E. 6588



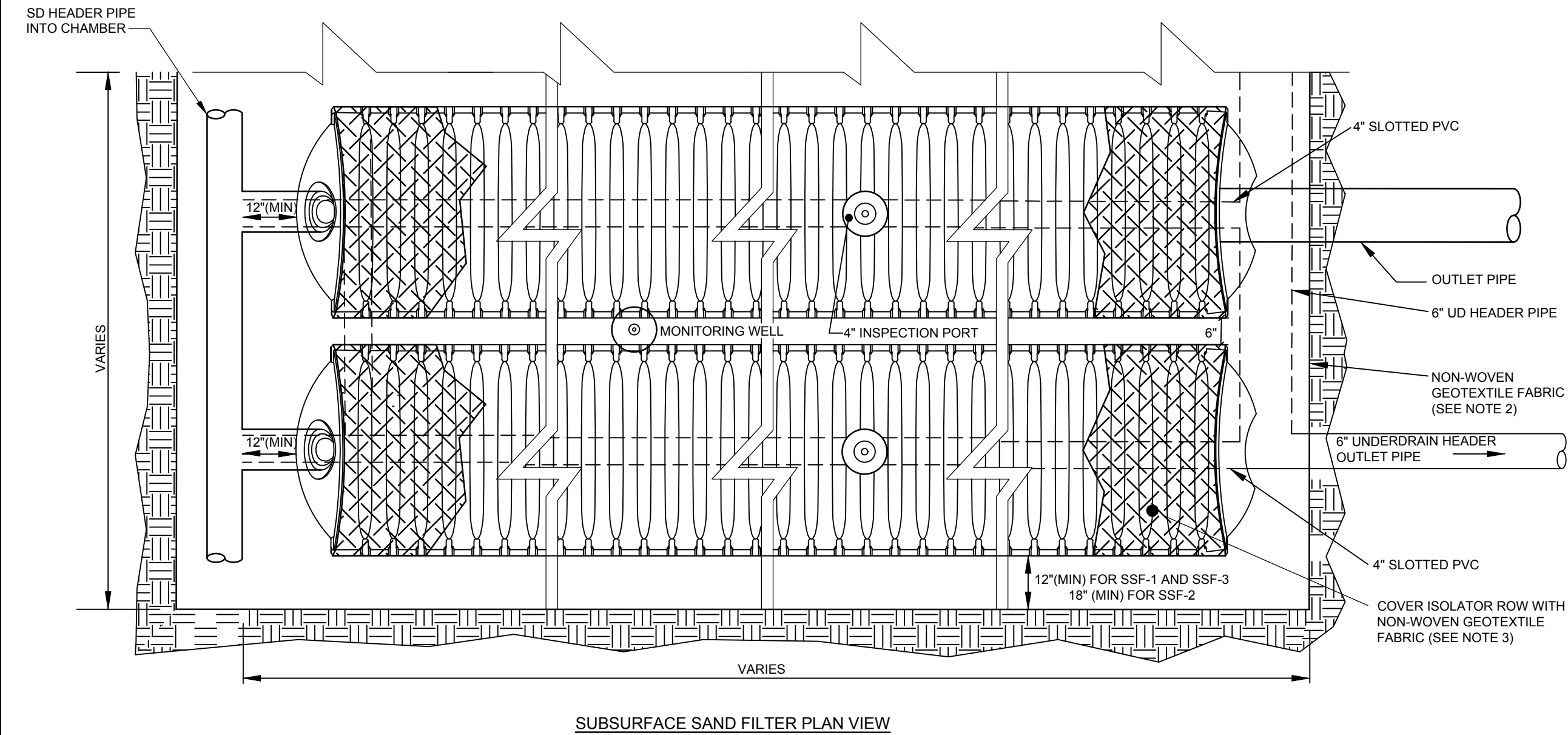
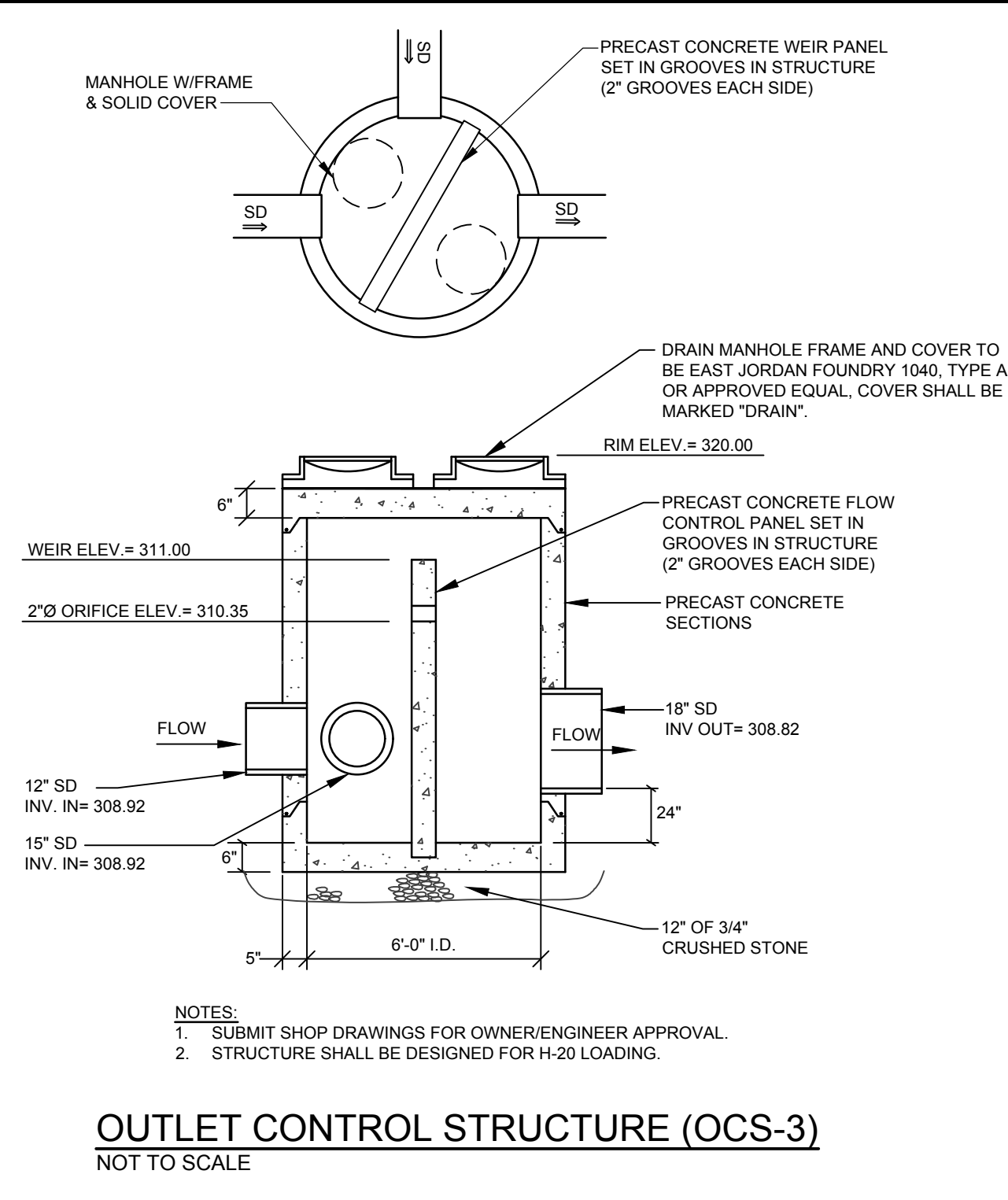
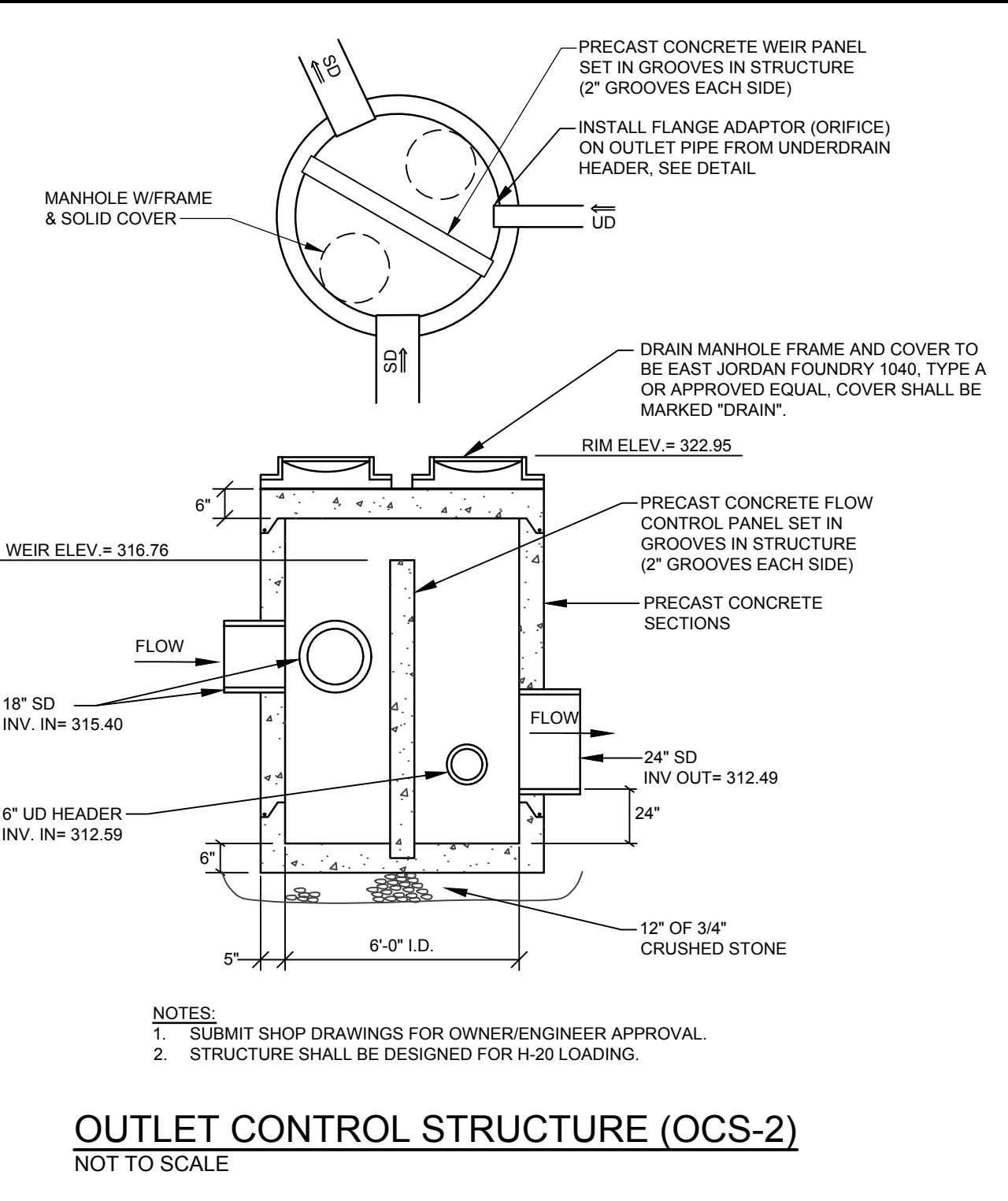
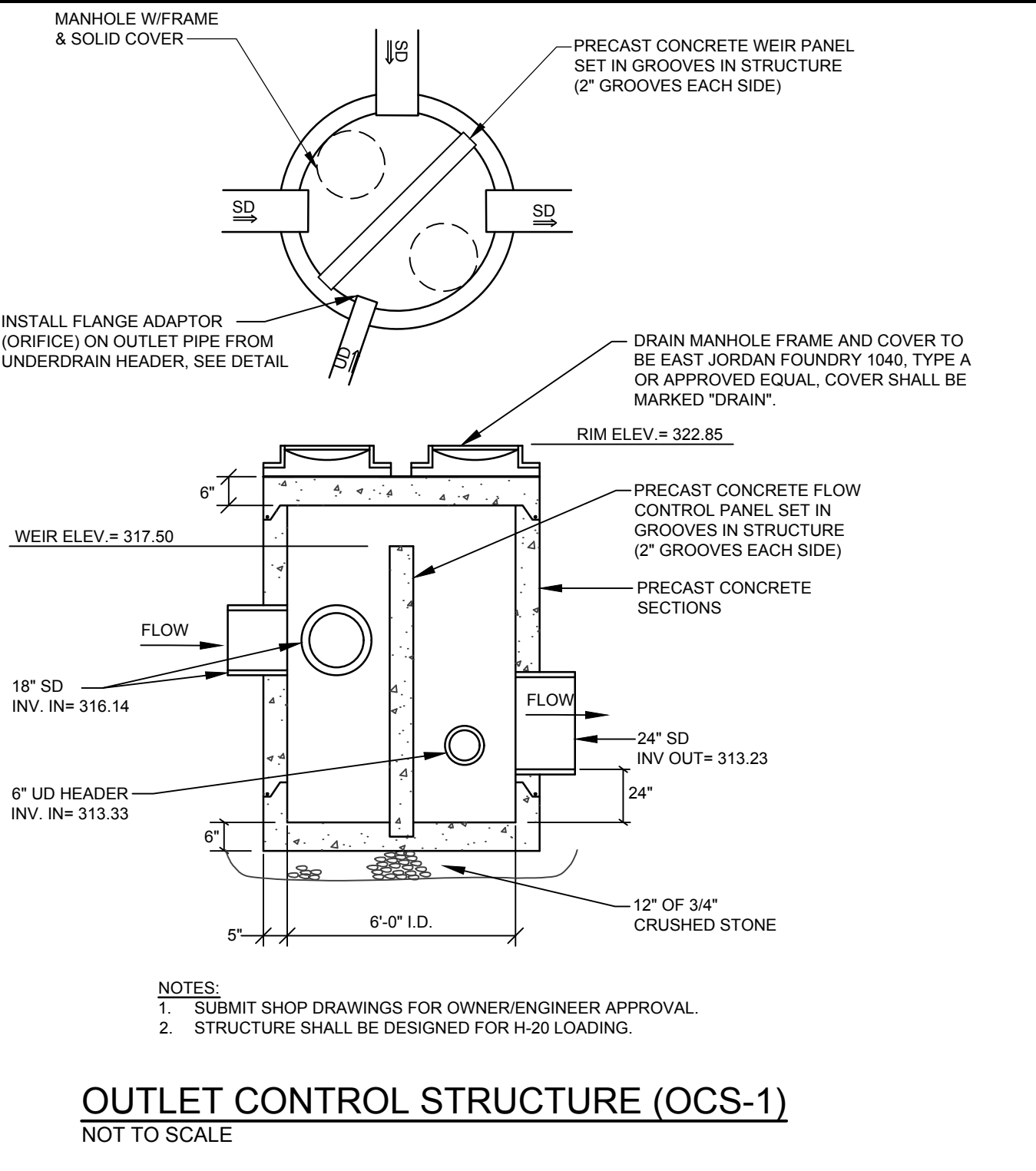
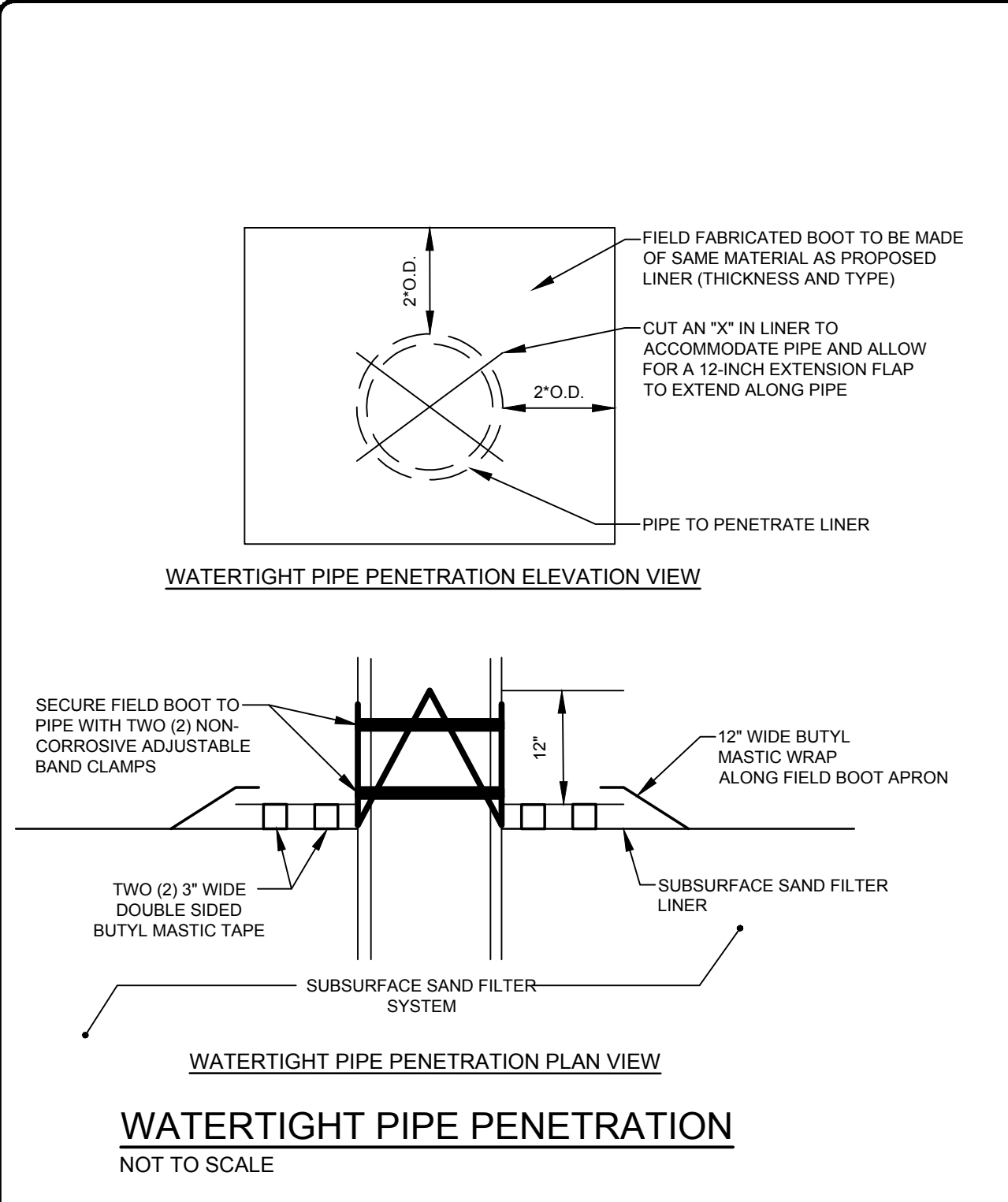
| | | |
|---|------------|------------|
| LOCAL SUBMISSION TO THE TOWN OF WINDHAM | STATUS: | DATE: |
| REV. BY: | DATE: | DATE: |
| A. RAM | 06/23/2025 | 06/23/2025 |

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TECHNICS
SERAGOTECHNICS.COM
75 John Roberts Rd, Suite 4A
South Portland, ME 04106
207-260-2100
South Portland, Bridgton, Sanford and Bath



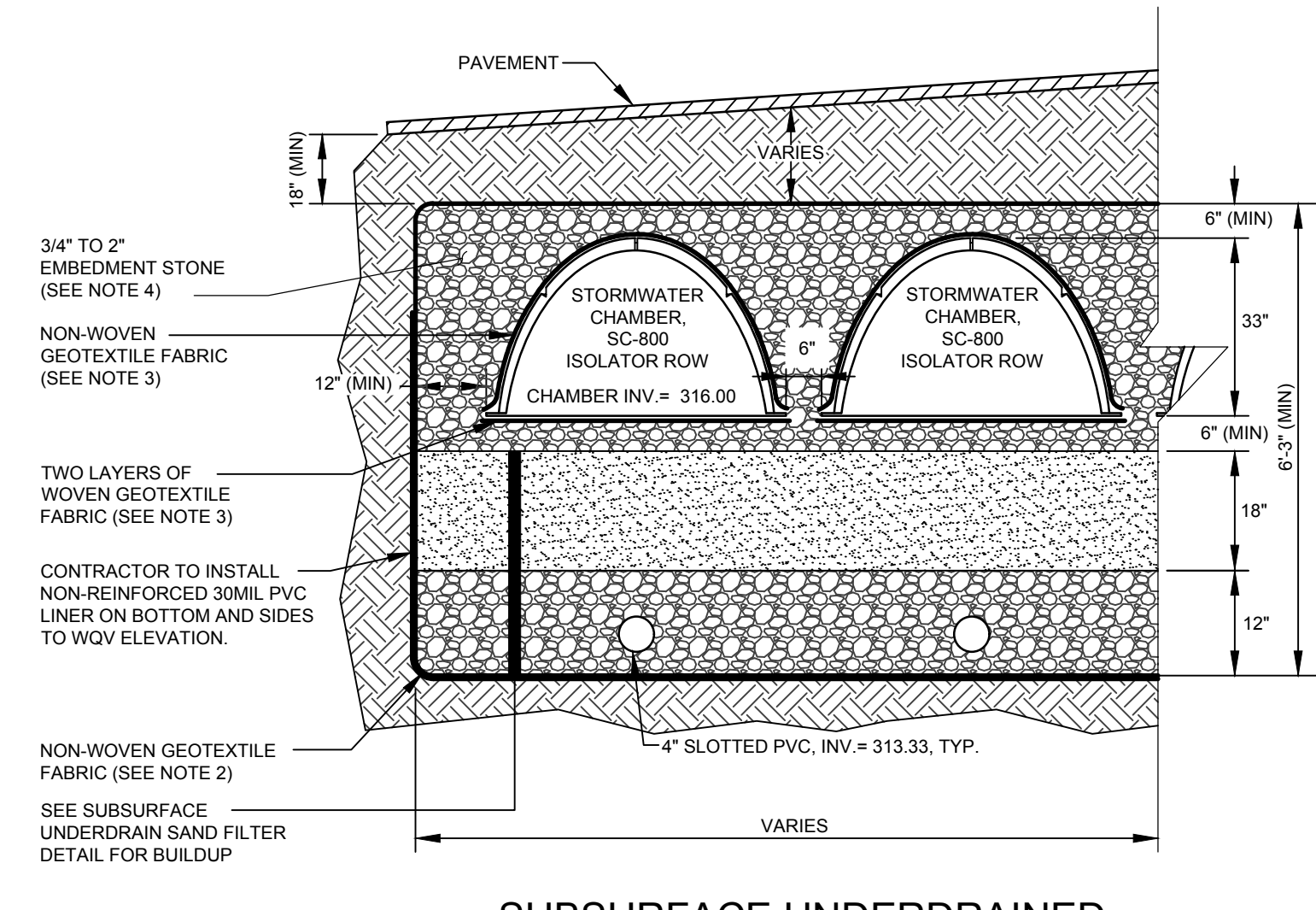
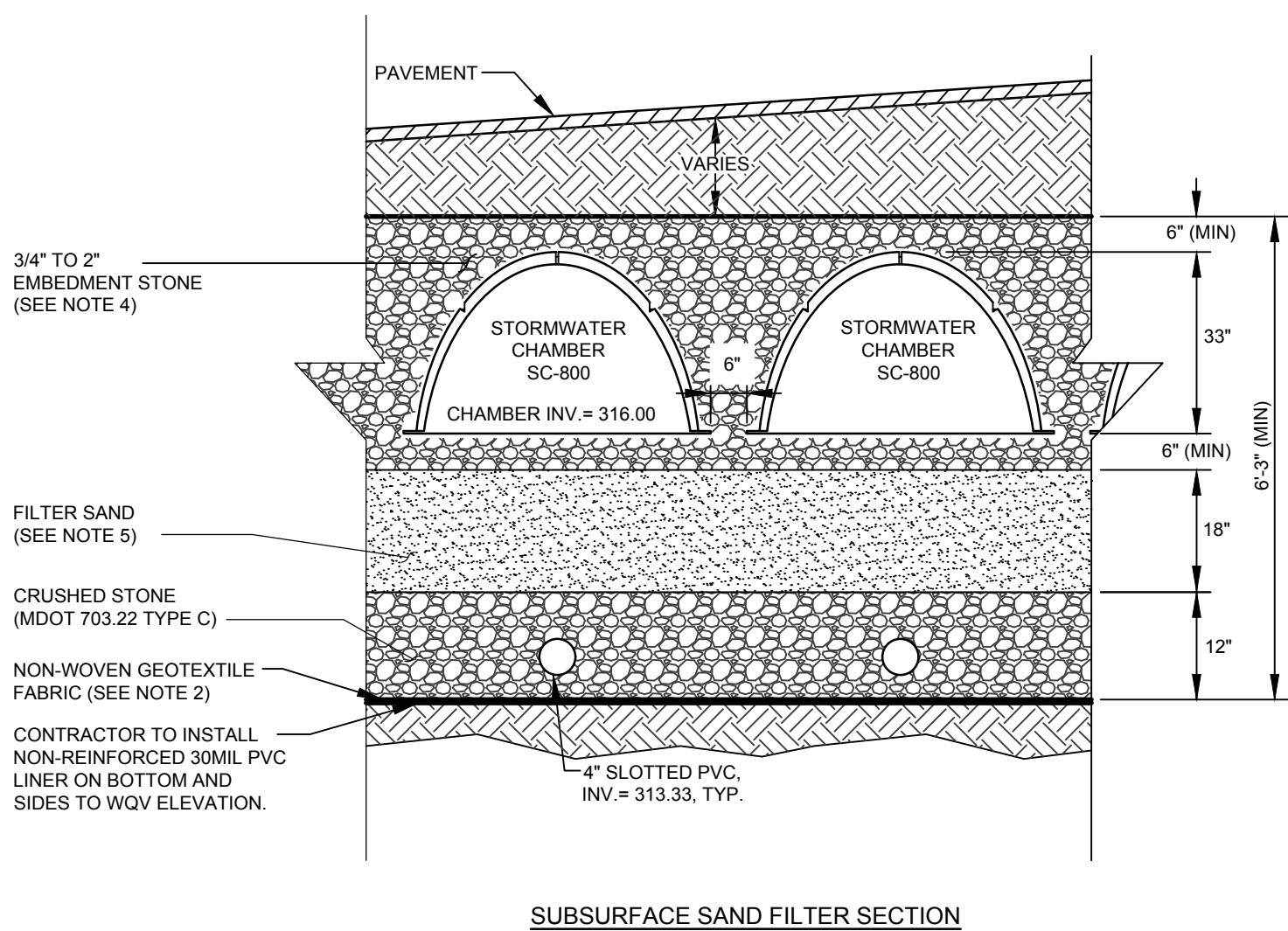
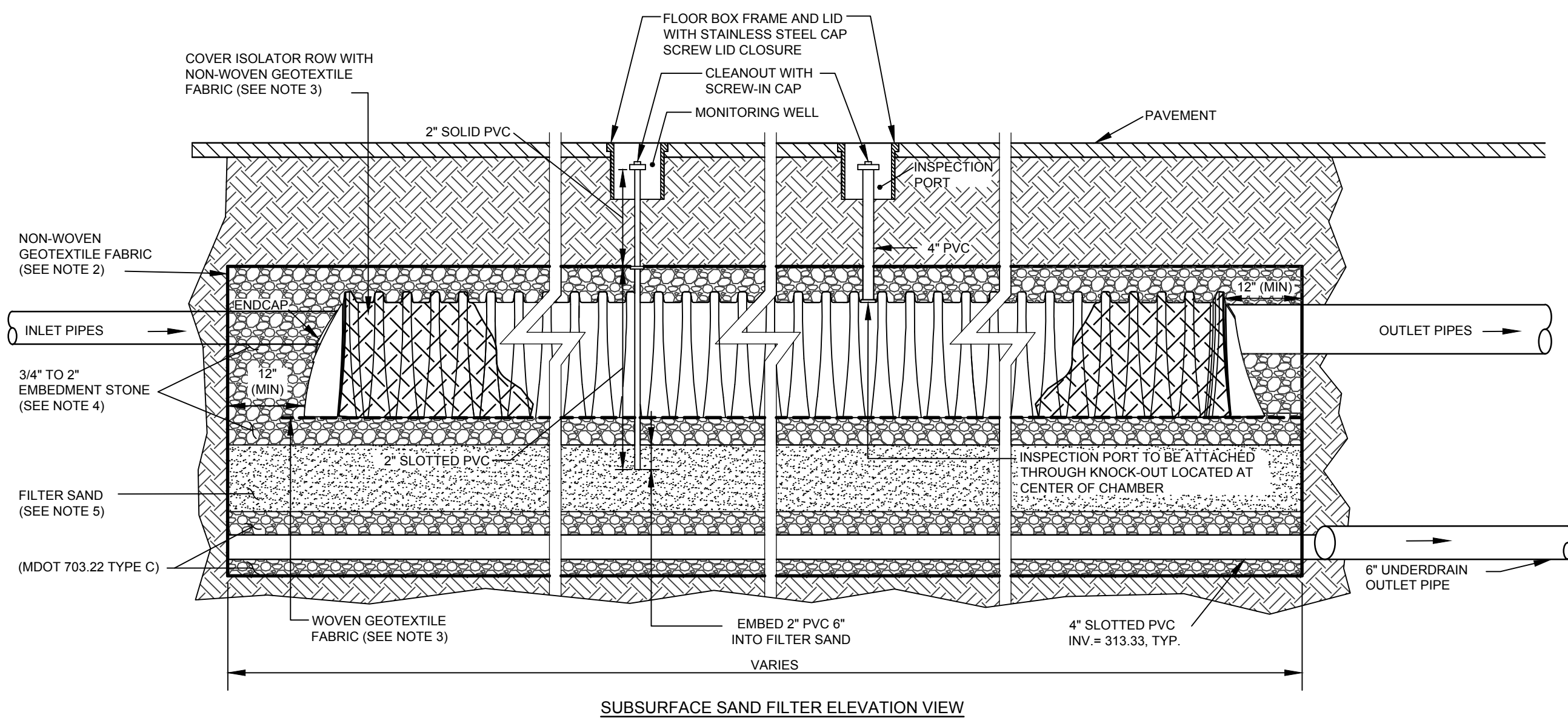
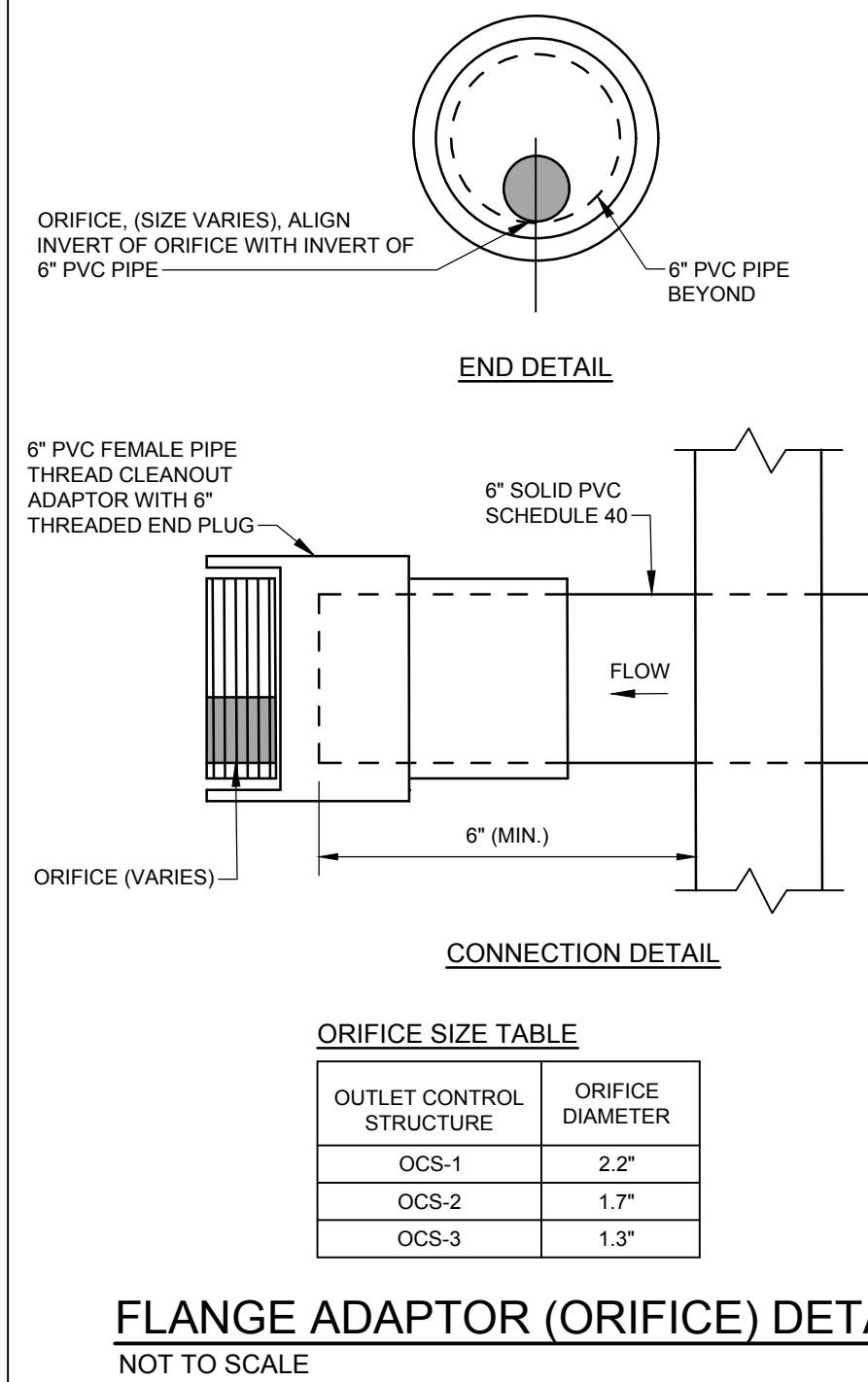
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|----------|---|-----|------------|---------|---|
| REV. BY: | A | RAM | 06/23/2025 | STATUS: | LOCAL SUBMISSION TO THE TOWN OF WINDHAM |
|----------|---|-----|------------|---------|---|



- SUBSURFACE SAND FILTER NOTES:**
- THE STORMWATER CHAMBER SHALL BE A STORMTECH SC-800 OR EQUIVALENT SUBSURFACE STORAGE CHAMBER APPROVED BY THE ENGINEER.
 - THE ENTIRE SUBSURFACE SYSTEM, INCLUDING THE CRUSHED STONE STORAGE VOLUME, THE FILTER MEDIA, AND UNDERDRAIN MATERIALS, SHALL BE WRAPPED IN A NON-WOVEN GEOTEXTILE FABRIC (MIRAFI 160N OR EQUIVALENT).
 - TWO STRIPS OF WOVEN GEOTEXTILE (MIRAFI FW 404) SHALL BE INSTALLED BETWEEN THE BOTTOM OF THE ISOLATOR ROW CHAMBER AND ITS STONE FOUNDATION. THIS FABRIC TRAPS SEDIMENTS AND PROTECTS THE UNDERLYING CRUSHED STONE. A SECOND STRIP OF NON-WOVEN AASHTO M288 CLASS 2 GEOTEXTILE (MIRAFI 160N OR EQUIVALENT) SHALL BE DRAPED OVER THE ENTIRE LENGTH OF THE CHAMBERS. THIS FABRIC WILL ALSO TRAP SEDIMENTS AND PROVIDE SEPARATION BETWEEN THE CHAMBERS AND SURROUNDING STONE.
 - THE EMBEDMENT STONE SURROUNDING THE CHAMBERS SHALL BE A WASHED, ANGULAR STONE WITH THE MAJORITY OF PARTICLES BETWEEN 3/4 INCH AND 2 INCH. THE BOTTOM 6 INCH LAYER OF STONE THAT ACTS AS THE FOUNDATION BELOW THE CHAMBERS SHALL BE COMPACTED TO ACHIEVE A 95% STANDARD PROCTOR DENSITY.
 - THE SAND FILTER MATERIAL SHALL BE A UNIFORM MIX, FREE OF STONES LARGER THAN 2 INCHES, STUMPS, ROOTS, OR OTHER SIMILAR OBJECTS. THE MATERIAL SHALL MEET THE SPECIFICATIONS FOR MDT AGGREGATE SAND (MDOT #703.01). HOWEVER, THIS AGGREGATE SAND SHALL BE MIXED WITH LOAM TO ACHIEVE A MATERIAL WITH BETWEEN 8% AND 10% PASSING THE #200 SIEVE. THE LOAM USED IN THIS MIXTURE SHALL HAVE LESS THAN 2% CLAY CONTENT. THIS 18 INCH LAYER OF SAND FILTRATION MEDIA SHALL BE PLACED TO ACHIEVE A LEVEL OF COMPACTION BETWEEN 92% AND 95% STANDARD PROCTOR DENSITY.
 - THE CONTRACTOR SHALL PERFORM PERMEABILITY TESTS FOR THE SAND FILTER MATERIAL TO ENSURE A STORMWATER RELEASE TIME RANGING BETWEEN 24 AND 48 HOURS.

- CONSTRUCTION OVERSIGHT NOTES FOR SUBSURFACE SAND FILTER:**
- INSPECTIONS BY A PROFESSIONAL ENGINEER SHALL CONSIST OF WEEKLY VISITS TO THE SITE TO INSPECT THE CONSTRUCTION AND STABILIZATION OF THE PROPOSED SUBSURFACE CHAMBERS AND ITS FILTER COURSE MATERIAL TO BE BUILT ON THE SITE. INSPECTIONS SHALL CONSIST OF AN APPROPRIATE NUMBER OF VISITS TO THE SITE TO INSPECT THE INSTALLATION OF THE SUBGRADE, FILTER BED MATERIAL, PLACEMENT, INSTALLATION OF EMBEDMENT STONE, ISOLATOR ROW AND CHAMBER, SURROUNDING STONE, FABRIC PLACEMENT AND STORMWATER OVERFLOW BYPASS CONSTRUCTION FROM INITIAL GROUND DISTURBANCE TO BACKFILL OVER CHAMBERS.
 - CONTRACTOR TO ENSURE THE ISOLATOR ROWS ARE INSTALLED UNDER THE SUPERVISION OF THE MANUFACTURER'S REPRESENTATIVE.

| SUBSURFACE SAND FILTER TABLE | | | |
|------------------------------|--------------------------------|--------------------------------|--------------------------------|
| | SUBSURFACE SAND FILTER (SSF-1) | SUBSURFACE SAND FILTER (SSF-2) | SUBSURFACE SAND FILTER (SSF-3) |
| CHAMBER INV. | 316.00 | 315.26 | 306.85 |
| 6" UD HEADER INV. | 313.33 | 312.59 | 306.18 |
| CHAMBER OUTLET PIPE INV. | 316.16 | 315.40 | 309.00 |
| UNDERDRAIN INV. | 313.33 | 312.59 | 306.18 |
| WQV. ELEV. | 317.50 | 316.76 | 310.35 |



SUBSURFACE SAND FILTER (SSF-1, SSF-2, & SSF-3)
NOT TO SCALE

PROGRESS PRINT

ROBERT A. INCISOREY, P.E. 6588

STATE OF MAINE
REGISTERED PROFESSIONAL ENGINEER
NO. 10545
EXPIRATION DATE: 12/31/2025

LOCAL SUBMISSION TO THE TOWN OF WINDHAM
REV. | BY: | DATE: | STATUS: |
A. RAM | 06/23/2025 | STATUS: |
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207-200-2100
South Portland, Bridgton, Sanford and Bath

DETAILS
OF:
FRANKLIN DRIVE MULTI-FAMILY PARCEL
WINDHAM, ME
FOR:
NEW GEN ESTATES, LLC
50 MAINE MALL ROAD
SOUTH PORTLAND, ME 04106

| | |
|----------|------------|
| DESIGNED | KPW |
| DRAWN | EPR |
| CHECKED | RAM |
| DATE | 02/13/2025 |
| SCALE | N/A |
| PROJECT | 230411-01 |

SHEET D-505

