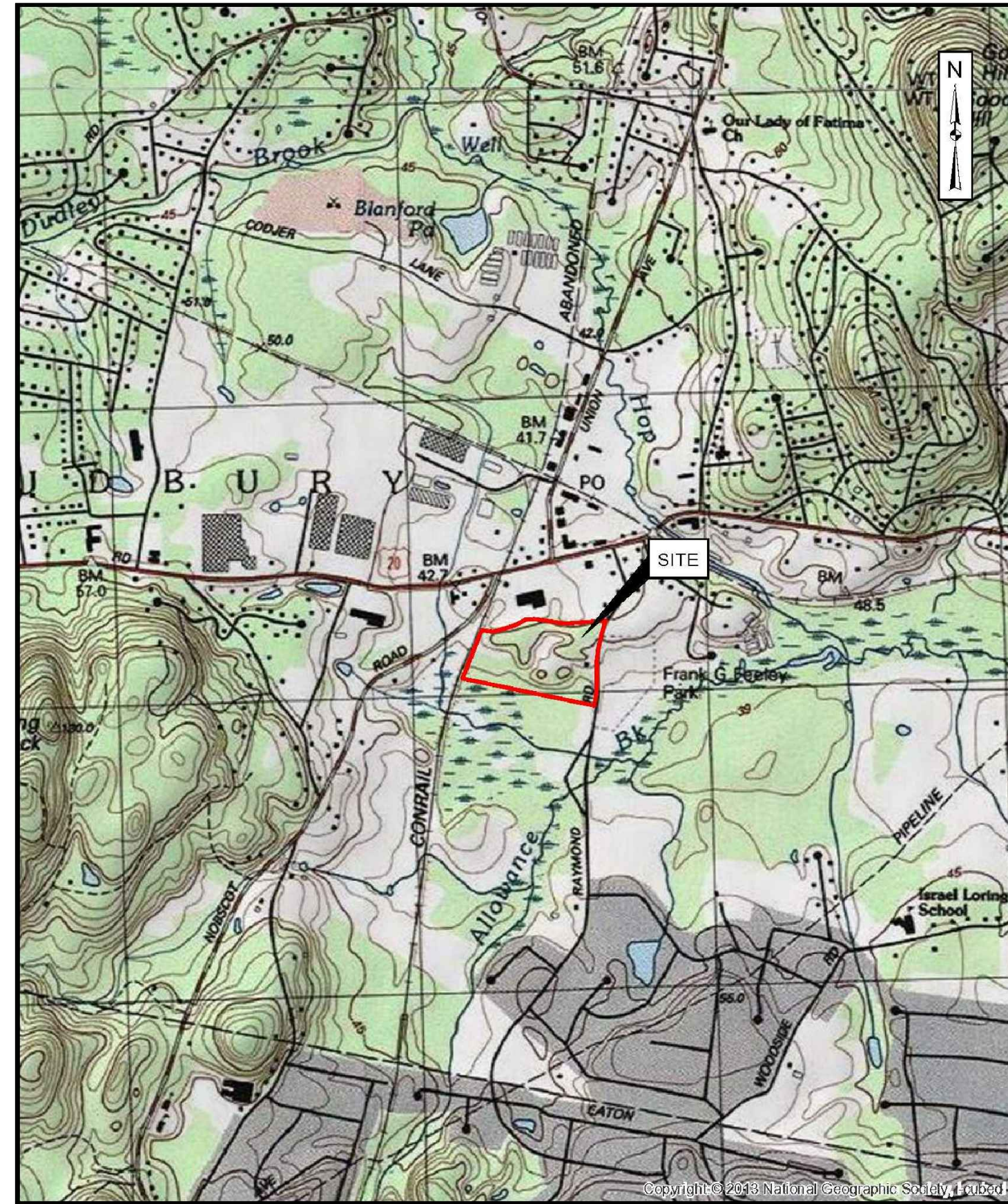


WATER DISTRICT FACILITY IMPROVEMENTS

TOWN OF SUDBURY, MASSACHUSETTS

199 RAYMOND ROAD



LOCUS MAP
SCALE: 1"=2000'

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JULY, 2018

CONSERVATION COMMISSION
SUBMISSION



GENERAL NOTES

1. TOPOGRAPHICAL INFORMATION BASED UPON SURVEY PERFORMED BY WESTON & SAMPSON IN FEBRUARY 2017.
2. REFER TO EXISTING CONDITIONS FOR SURVEY LEGEND. ALL BIDDERS ARE REQUIRED TO INSPECT THE PROJECT SITE IN ITS ENTIRETY PRIOR TO SUBMITTING THEIR BID, AND BECOME FAMILIAR WITH ALL CONDITIONS AS THEY MAY AFFECT THEIR BID. CONTRACTOR AND SUB-CONTRACTOR SHALL BE FAMILIAR WITH ALL DRAWINGS AND SPECIFICATIONS PRIOR TO COMMENCING THE CONSTRUCTION.
3. LOCATIONS OF ANY UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF SUCH UTILITIES, PROTECTING ALL EXISTING UTILITIES AND REPAIRING ANY DAMAGE DONE DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ON-SITE COORDINATION WITH UTILITY COMPANIES AND PUBLIC AGENCIES AND FOR OBTAINING ALL REQUIRED PERMITS AND PAYING ALL REQUIRED FEES. IN ACCORDANCE WITH M.G.L. CHAPTER 82, SECTION 40, INCLUDING AMENDMENTS, CONTRACTORS SHALL NOTIFY ALL UTILITY COMPANIES AND GOVERNMENT AGENCIES IN WRITING PRIOR TO EXCAVATION.
4. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
5. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY OWNER AT NO ADDITIONAL COST TO THE OWNER.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL DRAWINGS AND SPECIFICATIONS TO DETERMINE THE EXTENT OF EXCAVATION AND DEMOLITION REQUIRED TO RECEIVE SITE IMPROVEMENTS.
7. ANY DISCREPANCIES OR CONFLICTS BETWEEN THE DRAWINGS AND EXISTING CONDITIONS, EXISTING CONDITIONS TO REMAIN, TEMPORARY CONSTRUCTION, PERMANENT CONSTRUCTION AND WORK OF ADJACENT CONTRACTS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER BEFORE PROCEEDING. ITEMS ENCOUNTERED IN AREAS OF EXCAVATION THAT ARE NOT INDICATED ON THE DRAWINGS, BUT ARE VISIBLE ON SURFACE, SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE REMOVED AT NO ADDITIONAL COST TO THE OWNER.
8. ANY ALTERATIONS TO THESE DRAWINGS MADE IN THE FIELD DURING CONSTRUCTION SHALL BE RECORDED BY THE GENERAL CONTRACTOR ON "AS-BUILT" DRAWINGS.
9. ALL AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS OUTSIDE THE PROJECT LIMITS, SHALL BE RESTORED TO THE ORIGINAL CONDITION BY THE CONTRACTOR AT NO ADDITIONAL COST AND TO THE SATISFACTION OF THE OWNER.
10. ALL WORK SHOWN ON THE PLANS AS BOLD SHALL REPRESENT PROPOSED WORK. THE TERM "PROPOSED (PROP)" INDICATES WORK TO BE CONSTRUCTED USING NEW MATERIALS OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE AND RESET (R&R)", OR REMOVE, RELOCATE, RESET, (R,R&R).
11. ALL KNOWN EXISTING STATE, COUNTY AND TOWN LOCATION LINES AND PRIVATE PROPERTY LINES HAVE BEEN ESTABLISHED FROM AVAILABLE INFORMATION AND ARE INDICATED ON THE PLANS.
12. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT HIS EMPLOYEES, AS WELL AS PUBLIC USERS FROM INJURY DURING THE ENTIRE CONSTRUCTION PERIOD USING ALL NECESSARY SAFEGUARDS, INCLUDING BUT NOT LIMITED TO, THE ERECTION OF TEMPORARY WALKS, STRUCTURES, PROTECTIVE BARRIERS, COVERING, OR FENCES AS NEEDED.
13. THE CONTRACTOR SHALL SUPPLY THE OWNER WITH THE NAME OF THE OSHA "COMPETENT PERSON" PRIOR TO CONSTRUCTION.
14. FILLING OF EXCAVATED AREAS SHALL NOT TAKE PLACE WITHOUT THE PRESENCE OR PERMISSION OF THE OWNER.
15. EXISTING TREES TO REMAIN SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES. NO STOCKPIILING OF MATERIAL, EQUIPMENT OR VEHICULAR TRAFFIC SHALL BE ALLOWED WITHIN THE DRIP LINE OF TREES TO REMAIN. NO GUYS SHALL BE ATTACHED TO ANY TREE TO REMAIN. WHEN NECESSARY OR AS DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL ERECT TEMPORARY BARRIERS FOR THE PROTECTION OF EXISTING TREES DURING CONSTRUCTION.
16. TREES AND SHRUBS WITHIN THE LIMITS OF WORK SHALL BE REMOVED ONLY UPON THE APPROVAL OF THE ENGINEER OR AS NOTED ON THE PLANS.
17. THE CONTRACTOR SHALL CALL DIGSAFE AT 1-888-344-7233 AT LEAST 72 HOURS, SATURDAYS, AND HOLIDAYS EXCLUDED, PRIOR TO EXCAVATING AT ANY LOCATION. A COPY OF THE DIGSAFE PROJECT REFERENCE NUMBER(S) SHALL BE GIVEN TO THE OWNER PRIOR TO EXCAVATION.
18. NO FILLING SHALL OCCUR AROUND EXISTING TREES TO REMAIN WITHOUT THE APPROVAL OF THE OWNER OR OWNER REPRESENTATIVE.
19. THE CONTRACTOR SHALL REMOVE ALL SURFACE VEGETATION PRIOR TO GRADING THE SITE. STUMPS SHALL BE STOCKPILED ON SITE FOR DISPOSAL BY THE GC. TEMPORARY EROSION CONTROL MEASURES SHOWN ON THE DRAWINGS (INCLUDING SILT FENCE, STRAW WATTLES, OR SILT SOCKS) SHALL BE INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THESE TEMPORARY EROSION CONTROL MEASURES THROUGHOUT THE PROJECT WHICH COST SHALL BE INCIDENTAL TO THE PROJECT.
20. ALL UNSUITABLE UNCONTAMINATED EXCESS SOIL FROM CONSTRUCTION ACTIVITIES SHALL BE STOCKPILED ON SITE, AS DIRECTED BY THE TOWN, AT NO ADDITIONAL COST TO THE OWNER. REMOVAL ACTIVITIES SHALL BE IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS AT NO ADDITIONAL COST TO THE OWNER. SUITABLE SOIL EXCAVATION AS PART OF THE PROJECT MUST MEET ONE OR MORE OF THE MATERIAL REQUIREMENTS SPECIFIED IN 02300 EARTHWORK, ON-SITE FILL MATERIALS, WHICH DO NOT CONFORM TO SPEC 02300, SHALL NOT BE USED BELOW ANY STRUCTURES. IF THE CONTRACTOR PROPOSES TO USE THE EXISTING FILL ON SITE BELOW PAVEMENT AREAS, HE MUST DEMONSTRATE THAT THE FILL MEETS THE REQUIREMENTS PER SECTION 02300 OF THE SPECIFICATIONS. ALL EXCAVATED FILL MATERIAL WHICH DOES NOT MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS SHALL BE REMOVED AND DISPOSED OF OFF-SITE AT NO ADDITIONAL COST.
21. CONTRACTOR IS RESPONSIBLE FOR STAKING CONSTRUCTION BASELINES IN FIELD. NO CONSTRUCTION WILL BE PERFORMED WITHOUT THE PROPOSED BASELINES AND LAYOUTS APPROVED BY THE ENGINEER.
22. NO FILL SHALL CONTAIN HAZARDOUS MATERIALS.
23. CONTRACTOR SHALL PROVIDE TEMPORARY FENCING AROUND PERIMETER OF WORK AREA (LIMIT OF WORK). FENCE SHALL NOT IMPED E TRAVEL WAYS.
24. ANY QUANTITIES SHOWN ON PLANS ARE FOR COMPARATIVE BIDDING PURPOSES ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE PROJECT SITE TO VERIFY ALL QUANTITIES AND CONDITIONS PRIOR TO SUBMITTING BID.
25. ALL EXISTING DRAINAGE FACILITIES TO REMAIN SHALL BE MAINTAINED FREE OF DEBRIS, SOIL, SEDIMENT, AND FOREIGN MATERIAL AND OPERATIONAL THROUGHOUT THE LIFE OF THE CONTRACT. REMOVE ALL SOIL, SEDIMENT, DEBRIS AND FOREIGN MATERIAL FROM ALL DRAINAGE STRUCTURES, INCLUDING BUT NOT LIMITED TO, DRAINAGE INLETS, MANHOLES AND CATCH BASINS WITHIN THE LIMIT OF WORK AND DRAINAGE STRUCTURES OUTSIDE THE LIMIT OF WORK THAT ARE IMPACTED BY THE WORK FOR THE ENTIRE DURATION OF CONSTRUCTION.
26. CONTRACTOR'S STAGING AREA MUST BE WITHIN THE CONTRACT LIMIT LINE AND IN AREAS APPROVED BY OWNER. ANY OTHER AREAS THAT THE CONTRACTOR MAY WISH TO USE FOR STAGING MUST BE COORDINATED WITH THE OWNER.
27. THE CONTRACTOR SHALL KEEP ALL STREETS, PARKING LOTS AND WALKS THAT ARE NOT RESTRICTED FROM PUBLIC USE DURING CONSTRUCTION BROOM CLEAN AT ALL TIMES. THE CONTRACTOR SHALL USE ACCEPTABLE METHODS AND MATERIALS TO MAINTAIN ADEQUATE DUST CONTROL THROUGHOUT CONSTRUCTION.
28. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER.
29. CONTRACTOR SHALL DEWATER AS NECESSARY TO PERFORM THE PROPOSED WORK. CONTRACTOR SHALL BE AWARE OF PERCHED GROUNDWATER. (SEE SPECIFICATION SECTION 00320 SUBSURFACE DATA).
30. THE LIMIT OF WORK SHALL BE DELINEATED IN THE FIELD PRIOR TO THE START OF SITE CLEARING OR CONSTRUCTION.
31. DEEP SUMP CATCH BASINS AND STORMWATER BASIN SHALL BE CLEANED FOLLOWING CONSTRUCTION AND SHALL FOLLOW THE OPERATION AND MAINTENANCE PLAN THEREAFTER.
32. HAULING OF EARTH MATERIALS TO AND FROM THE SITE SHALL BE RESTRICTED TO THE HOURS OF 7:00 AM TO 5:00 PM MONDAY THROUGH FRIDAY.
33. ANY BOULDERS 3 CY OR SMALLER SHALL BE CONSIDERED UNDOCUMENTED FILL AND SHALL BE DISPOSED OF AT NO ADDITIONAL COST TO THE OWNER.
34. WORK ON SATURDAYS SHALL ONLY BE CONDUCTED IF PRIOR WRITTEN PERMISSION IS PROVIDED BY THE TOWN.

EROSION AND SEDIMENT CONTROL NOTES

1. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE PUT IN PLACE PRIOR TO BEGINNING ANY CONSTRUCTION OR DEMOLITION. REFER TO PLAN FOR APPROXIMATE LOCATION OF EROSION AND SEDIMENT CONTROL. REFER TO SPECS AND DETAILS FOR TYPE OF EROSION AND SEDIMENT CONTROL.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTINUAL MAINTENANCE OF ALL CONTROL DEVICES THROUGHOUT THE DURATION OF THE PROJECT.
3. CONTRACTOR SHALL MEET ALL OF THE STATE OF MASSACHUSETTS D.E.P. AND THE TOWN OF SUDBURY WETLAND ORDINANCE REGULATIONS FOR SEDIMENT AND EROSION CONTROL.
4. EXCAVATED MATERIAL STOCKPILED ON THE SITE SHALL BE SURROUNDED BY A RING OF UNBROKEN SEDIMENT AND EROSION CONTROL FENCE. THE LIMITS OF ALL GRADING AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE APPROVED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE OF THE LIMIT OF CONTRACT SHALL REMAIN TOTALLY UNDISTURBED UNLESS OTHERWISE APPROVED BY OWNER'S REPRESENTATIVE.
5. ALL CATCH BASINS AND DRAIN GRATES WITHIN LIMIT OF CONTRACT SHALL BE PROTECTED WITH FILTER FABRIC DURING THE ENTIRE DURATION OF CONSTRUCTION.
6. EROSION CONTROL BARRIERS TO BE INSTALLED AT THE TOE OF SLOPES. SEE SITE PREPARATION PLAN, NOTES, DETAILS AND SPECIFICATIONS.
7. ANY AREA OUTSIDE THE PROJECT LIMIT THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO THE OWNER.
8. THE CONTRACTOR SHALL PROVIDE DUST CONTROL FOR CONSTRUCTION OPERATIONS AS APPROVED BY OWNER.
9. ALL POINTS OF CONSTRUCTION EGRESS OR INGRESS SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ON TO PUBLIC/PRIVATE ROADS.

DEMOLITION & SITE PREPARATION NOTES

1. THE CONTRACTOR SHALL INCLUDE IN THE BID THE COST OF REMOVING ANY EXISTING SITE FEATURES AND APPURTENANCES NECESSARY TO ACCOMPLISH THE CONSTRUCTION OF THE PROPOSED SITE IMPROVEMENTS. THE CONTRACTOR SHALL ALSO INCLUDE IN THE BID THE COST NECESSARY TO RESTORE SUCH ITEMS IF THEY ARE SCHEDULED TO REMAIN AS PART OF THE FINAL SITE IMPROVEMENTS. REFER TO PLANS TO DETERMINE EXCAVATION, DEMOLITION AND TO DETERMINE THE LOCATION OF THE PROPOSED SITE IMPROVEMENTS.
2. THE OWNER RESERVES THE RIGHT TO REVIEW ALL MATERIALS DESIGNATED FOR REMOVAL AND TO RETAIN OWNERSHIP OF SUCH MATERIALS. IF THE OWNER RETAINS ANY MATERIAL, THE CONTRACTOR SHALL ALLOW ARRANGEMENTS WITH THE OWNER TO HAVE THOSE MATERIALS REMOVED OFF SITE AT NO ADDITIONAL COST.
3. UNLESS SPECIFICALLY NOTED TO BE SAVED / STOCKPILED (RAS) OR REUSED / RELOCATED (RAR), ALL SITE FEATURES CALLED FOR REMOVAL (REM) SHALL BE REMOVED WITH THEIR FOOTINGS, ATTACHMENTS, BASE MATERIAL, ETC. TRANSPORTED FROM THE SITE TO BE DISPOSED OF IN A LAWFUL MANNER AT AN ACCEPTABLE DISPOSAL SITE AND AT NO COST TO THE OWNER.
4. ALL EXISTING SITE FEATURES TO REMAIN SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION PERIOD. ANY FEATURES DAMAGED DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST.
5. DURING EARTHWORK OPERATIONS, CONTRACTOR SHALL TAKE CARE TO NOT DISTURB EXISTING MATERIALS TO REMAIN. OUTSIDE THE LIMITS OF EXCAVATION AND BACKFILL AND SHALL TAKE WHATEVER MEASURES NECESSARY, AT THE CONTRACTOR'S EXPENSE, TO PREVENT ANY EXCAVATED MATERIAL FROM COLLAPSING. ALL BACKFILL MATERIALS SHALL BE PLACED AND COMPACTED AS SPECIFIED TO THE SUBGRADE REQUIRED FOR THE INSTALLATION OF THE REMAINDER OF THE CONTRACT WORK.
6. IT SHALL BE THE CONTRACTOR'S OPTION, WITH CONCURRENCE OF THE OWNER, TO REUSE EXISTING GRAVEL IF IT MEETS THE REQUIREMENTS OF THE SPECIFICATIONS FOR GRAVEL BORROW.
7. ALL ITEMS CALLED FOR REMOVAL SHALL BE REMOVED TO FULL DEPTH INCLUDING ALL FOOTINGS, FOUNDATIONS, AND OTHER APPURTENANCES, EXCEPT AS SPECIFICALLY NOTED OTHERWISE.
8. CLEAR AND GRUB VEGETATION SHALL INCLUDE REMOVAL OF GRASS, SHRUBS, AND UNDERBRUSH, REMOVAL OF ROOTS, ROUGH GRADING, INSTALLATION OF LOAM (IF APPLICABLE), FINE GRADING, SEEDING AND TURF ESTABLISHMENT BY THE CONTRACTOR.
9. TREES DESIGNATED FOR REMOVAL SHALL BE TAGGED BY CONTRACTOR AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
10. THE STORAGE OF MATERIALS AND EQUIPMENT WILL BE PERMITTED AT LOCATIONS DESIGNATED BY OWNER OR OWNER'S REPRESENTATIVE. PROTECTION OF STORED MATERIALS AND EQUIPMENT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
11. STRIP & STORE EXISTING TOPSOIL FOR LATER REUSE WHERE APPROPRIATE, AND AS NOTED ON PLAN, WITH APPROPRIATE EROSION AND SEDIMENT CONTROLS.
12. LOAM / TOP SOIL DESIGNATED FOR REUSE AS GENERAL FILL SHALL BE BLENDED WITH SUITABLE BORROW MATERIAL AS SPECIFIED.
13. THE CONTRACTOR SHALL PROTECT EXISTING TREES TO REMAIN. CONTRACTOR SHALL INSTALL TREE PROTECTION BARRIER AFTER CLEARING UNDERBRUSH AND TAKE DUE CARE TO PREVENT INJURY TO TREES DURING CLEARING OPERATIONS.

LAYOUT & MATERIALS NOTES

1. REFER TO EXISTING CONDITIONS PLANS FOR SURVEY INFORMATION (SHEET C0.1).
2. COORDINATE ALL LAYOUT ACTIVITIES WITH THE SCOPE OF WORK CALLED FOR BY DEMOLITION, GRADING AND UTILITIES OPERATIONS ENCOMPASSED BY THIS CONTRACT. SET, PROTECT AND REPLACE REFERENCE STAKES AS NECESSARY OR AS REQUIRED BY THE OWNER'S REPRESENTATIVE.
3. ALL WORK SHALL BE PERFORMED BY CONTRACTOR UNLESS SPECIFICALLY INDICATED THAT THE WORK WILL BE PERFORMED "BY TOWN".
4. TO FACILITATE LAYOUT OF PROPOSED SITE FEATURES AND FACILITIES, LAYOUT INFORMATION FOR CERTAIN FUTURE WORK, WHICH IS NOT INCLUDED WITHIN THE SCOPE OF THIS CONTRACT HAS BEEN PROVIDED ON THE LAYOUT AND MATERIALS PLAN FOR INFORMATION ONLY. THE LAYOUT OF SITE AMENITIES AND FENCES MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. SOME ITEMS ARE "NOT IN CONTRACT" (NIC) AND SHOWN FOR REFERENCE ONLY.
5. THE LAYOUT OF SITE AMENITIES AND FENCES MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
6. THE LAYOUT OF ALL NEW PATHWAYS / WALKWAYS AND THE GRADING OF ALL SLOPES AND CROSS SLOPES SHALL CONFORM TO THE COMMONWEALTH OF MASSACHUSETTS RULES AND REGULATIONS FOR HANDICAP ACCESS CMR 821, AND THE AMERICANS WITH DISABILITIES ACT (ADA), TITLE 3. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND THOSE REQUIRED.
7. ALL LAYOUT LINES, OFFSETS, OR REFERENCES TO LOCATING OBJECTS ARE EITHER PARALLEL OR PERPENDICULAR UNLESS OTHERWISE DESIGNATED WITH ANGLE OFFSETS NOTED.
8. ALL PROPOSED SITE FEATURES SHALL BE LAID OUT AND STAKED FOR REVIEW AND APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF INSTALLATION, ANY REQUIRED ADJUSTMENTS TO THE LAYOUT SHALL BE UNDERTAKEN AS REQUIRED, AT NO ADDITIONAL COST TO THE OWNER.
9. ALL PROPOSED PAVEMENTS SHALL MEET THE LINE AND GRADE OF EXISTING ADJACENT PAVEMENT SURFACES AND SHALL BE TREATED WITH AN RS-1 TACK COAT AT POINT OF CONNECTION. ALL PATHWAY WIDTHS SHALL BE AS NOTED ON THE LAYOUT AND MATERIALS PLAN.
10. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES ON THE GROUND AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE OWNER.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD MEASUREMENT OF ALL PROPOSED FENCES AND GATES.
12. THE DEPTH OF LOAM BORROW FOR ALL PROPOSED LAWN AREAS SHALL BE 6" MINIMUM. ALL DISTURBED AREAS SHALL BE RESTORED WITH LOAM AND SEED UNLESS OTHERWISE NOTED.
13. ALL REFERENCES TO LOAM AND SEED (L&S) REFER TO HYDROMULCH SEEDED LAWN.
14. REFER TO DETAIL DRAWINGS FOR CONSTRUCTION DETAILS.

GRADING, UTILITIES & DRAINAGE NOTES

1. ALL WORK RELATING TO INSTALLATION, RENOVATION OR MODIFICATION OF WATER, DRAINAGE AND/OR SEWER SERVICES SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS OF THE TOWN OF SUDBURY.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES ON THE GROUND AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE OWNER.
3. ALL GRADING IS TO BE SMOOTH AND CONTINUOUS WHERE PROPOSED GRAVEL SURFACE MEETS EXISTING SURFACE. BLEND THE TWO PAVEMENTS AND ELIMINATE ROUGH SPOTS AND ABRUPT GRADE CHANGES AND MEET LINE AND GRADE OF EXISTING CONDITIONS WITH NEW IMPROVEMENTS.
4. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE (1.5% MINIMUM) AWAY FROM ALL BUILDING FOUNDATIONS AND STRUCTURES.
5. CONTRACTOR SHALL ENSURE ALL AREAS ARE PROPERLY FITCHED TO DRAIN, WITH NO SURFACE WATER PONDING OR PUDDLING.
6. ALL NEW WALKWAYS / ACCESS PATHS MUST CONFORM TO CURRENT AMERICANS WITH DISABILITIES ACT (ADA) REGULATIONS. WALKWAYS SHALL MAINTAIN A CROSS PITCH OF NOT MORE THAN ONE AND A HALF PERCENT (1.5%) AND THE RUNNING SLOPE (PARALLEL TO THE DIRECTION OF TRAVEL) BETWEEN 1% MIN. AND 5% MAX.
7. MINIMUM SLOPE ON ALL WALKWAYS WILL BE 1:100 OR 1% TO PROVIDE POSITIVE DRAINAGE. ANY DISCREPANCIES NOT ALLOWING THIS TO OCCUR SHALL BE REPORTED TO THE OWNER PRIOR TO CONTINUING WORK.
8. ALL UTILITY GRATES, COVERS OR OTHER SURFACE ELEMENTS INTENDED TO BE EXPOSED AT GRADE SHALL BE FLUSH WITH THE ADJACENT FINISHED GRADE AND ADJUSTED TO PROVIDE A SMOOTH TRANSITION AT ALL EDGES.
9. THE CONTRACTOR SHALL SET SUBGRADE ELEVATIONS TO ALLOW FOR POSITIVE DRAINAGE AND PROVIDE EROSION CONTROL DEVICES, STRUCTURES, MATERIALS AND CONSTRUCTION METHODS TO DIRECT SILT MIGRATION AWAY FROM DRAINAGE AND OTHER UTILITY SYSTEMS, PUBLIC/PRIVATE STREETS AND WORK AREAS. CLEAN BASINS REGULARLY AND AT THE END OF THE PROJECT.
10. EXCAVATION REQUIRED WITHIN PROXIMITY OF KNOWN EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER.
11. WHERE NEW EARTHWORK MEETS EXISTING EARTHWORK, CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY INTO EXISTING, PROVIDING VERTICAL CURVES OR ROUNDS AT ALL TOP AND BOTTOM OF SLOPES.
12. WHERE A SPECIFIC LIMIT OF WORK LINE IS NOT OBVIOUS OR IMPLIED, BLEND GRADES TO EXISTING CONDITIONS WITHIN 5 FEET OF PROPOSED CONTOURS.
13. RESTORE ALL DISTURBED AREAS AND LIMITS OF ALL REMOVALS TO LOAM AND SEED (L&S) UNLESS OTHERWISE NOTED.
14. SEE EARTHWORK SECTION OF SPECIFICATIONS FOR SPECIFIC EXCAVATION AND FILLING PROCEDURES.
15. FOR STRUCTURE REMODELING (REMOD), CONSTRUCTION METHODS SHALL FOLLOW MASSACHUSETTS DOT STANDARD SPEC. LATEST EDITION (SECTION 220)

ABBREVIATIONS

GENERAL

- PROP
- ADJ
- BIT. CONC.
- CEM. CONC.
- B
- N.T.S.
- B.M.
- ABAN
- MAL BOX
- GRAN. CURB
- EXIST. (OR EX.)
- FDN
- F.L.
- (OR F)
- E
- PVMT
- P.W.W.
- RC
- M.H.B.
- REM
- REMOD
- RET
- R.O.W.
- R&R
- R&R
- R&S
- R&D
- SB
- NIC
- H.C.
- WCR
- HMA
- G.C.
- E.C.
- P.C.
- SWEL
- BWLL
- SYEL
- SB/DH
- CLF
- TEMP.
- TYP.
- EQ
- H.C.
- EOP
- PROT
- CTE
- RL
- L.O.W.
- VIF
- APPROX.
- TBM
- ALT.

- PROPOSED
- ADJUST
- BITUMINOUS CONCRETE
- CEMENT CONCRETE
- BASELINE
- NOT TO SCALE
- BENCH MARK
- ABANDON
- MAL BOX
- GRANITE CURB
- EXISTING FOUNDATION
- FLOW LINE
- PROPERTY LINE
- PAVEMENT
- PAVED WATERWAY
- REINFORCED CONCRETE
- MASSACHUSETTS HIGHWAY BOUND
- REMOVE
- REMODEL
- RETAIN
- RIGHT-OF-WAY
- REMOVE AND RESET
- REMOVE, RELOCATED AND RESET
- REMOVE AND STACK
- REMOVE AND DISPOSE
- STONE BOUND
- NOT IN CONTRACT
- HANDICAP
- WHEELCHAIR RAMP
- FINISHED FLOOR
- HOT MIX ASPHALT
- GENERAL CONTRACTOR
- ELECTRICAL CONTRACTOR
- PLUMBING CONTRACTOR
- SOLID WHITE EDGE LINE
- BROKEN WHITE LANE LINE
- SOLID YELLOW EDGE LINE
- STONE BOUND/ DRILL HOLE
- CHAIN LINK FENCE
- TEMPORARY
- EQUIPMENT
- HANDICAP
- EDGE OF PAVEMENT
- PROTECT
- CONNECT TO EXISTING
- ROOF LEADER
- LIMIT OF WORK
- VERIFY IN FIELD
- APPROXIMATE
- TEMPORARY BENCHMARK
- ALTERNATE

UTILITIES

- GICI
- CBCI
- CB
- C.I.T.
- CTE
- F&G
- F&C
- CI
- CIP
- CMP
- DI
- GI
- ASCOM PIPE
- HYD
- INV. ELEV.
- UP
- SMH
- WG
- HDPE
- PVC
- RCP
- DMH
- LB
- LG
- CI
- OCS
- OGT
- VC
- LP
- OHW
- ULP
- SWTU
- HH
- GW
- CO
- LC
- OV
- GALV.
- F&I
- BGS

- GUTTER INLET W/ CURB INLET
- CATCH BASIN W/ CURB INLET
- CATCH BASIN
- CLIMB IN TYPE
- CONNECT TO EXISTING
- FRAME AND GRATE
- FRAME AND COVER
- CURB INLET
- CAST IRON PIPE
- CORRUGATED METAL PIPE
- DUCTILE IRON PIPE
- GUTTER INLET
- ASPHALT COATED CORRUGATED METAL PIPE
- HYDRANT
- INVERT ELEVATION
- UTILITY POLE
- SEWER MANHOLE
- WATER GATE
- DOWN SPOUT
- HIGH DENSITY POLYETHYLENE PIPE
- POLYVINYL CHLORIDE
- REINFORCED CONCRETE PIPE
- DRAIN MANHOLE
- LEACHING BASIN
- LEACHING GALLEY
- CAST IRON
- OUTLET CONTROL STRUCTURE
- OIL AND GRIT TRAP
- VITRIFIED CLAY PIPE
- LIGHT POLE
- OVERHEAD WIRE
- UTILITY POLE WITH LIGHT
- STORM WATER TREATMENT UNIT
- HANDHOLE
- GARAGE WASTE
- CLEANOUT
- LEACHING CHAMBER
- GATE VALVE
- GALVANIZED
- FURNISH & INSTALL
- BELOW GRADE SURFACE
- BOTTOM OF WALL
- BOTTOM OF CURB
- POINT OF INTERSECTION
- POINT OF CURVATURE
- POINT OF TANGENCY
- POINT OF REVERSE CURVATURE
- POINT OF COMPOUND CURVATURE
- POINT OF VERTICAL INTERSECTION
- POINT OF VERTICAL CURVATURE
- POINT OF VERTICAL TANGENCY
- ELEVATION
- CENTER OF CURVE
- HIGH POINT
- LOW POINT
- RADIUS OF CURVATURE
- STATION
- STOPPING SIGHT DISTANCE
- TOP OF CURB
- TOP OF WALL

ALIGNMENT/GRADING

- BW
- BC
- PI
- GW
- PC
- PT
- PRC
- PCD
- PVI
- PVC
- PVT
- ELEV
- CC
- H.P.
- L.P.
- R
- STA.
- S.S.D.
- TC
- TW

- BOTTOM OF WALL
- BOTTOM OF CURB
- POINT OF INTERSECTION
- POINT OF CURVATURE
- POINT OF TANGENCY
- POINT OF REVERSE CURVATURE
- POINT OF COMPOUND CURVATURE
- POINT OF VERTICAL INTERSECTION
- POINT OF VERTICAL CURVATURE
- POINT OF VERTICAL TANGENCY
- ELEVATION
- CENTER OF CURVE
- HIGH POINT
- LOW POINT
- RADIUS OF CURVATURE
- STATION
- STOPPING SIGHT DISTANCE
- TOP OF CURB
- TOP OF WALL

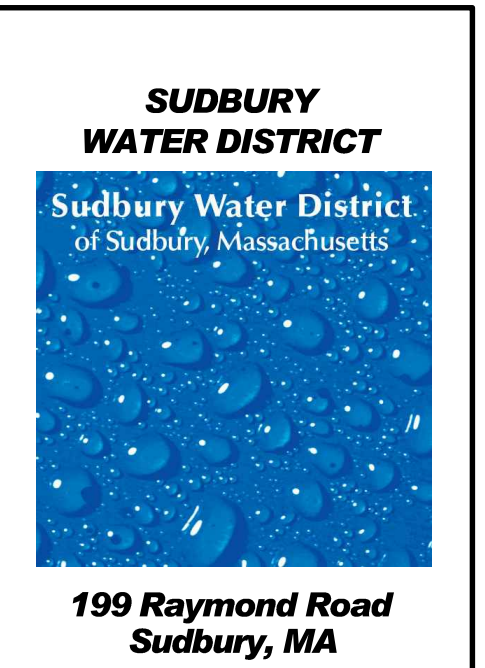
GENERAL SYMBOLS

EXISTING

- CB
- CBCI
- HH
- EMH
- TMH
- SMH
- DMH
- GG
- WG
- LP
- D
- S
- E
- T
- C
- G
- W
- OHW
- GUARD RAIL
- NAME
- 12 N00° 00' 00" E
- +57.59 PC
- WCR
- CLF
- OR WOOD FENCE
- M##
- TP1
- TP2
- MON WELL (TYP)
- UP 8
- FLAG POLE
- CBF

PROPOSED

- CB
- CATCH BASIN
- CATCH BASIN CURB INLET
- LEACHING GALLEY
- CURB (OR BERM)-TYPE NOTED
- EDGE OF ROAD
- HANDHOLE (NUMBER AS NOTED)
- ELECTRIC MANHOLE
- TELEPHONE MANHOLE
- SEWER MANHOLE
- DRAINAGE MANHOLE
- GAS GATE
- WATER GATE VALVE
- HYDRANT
- WELL
- LIGHTPOLE
- DRAIN PIPE
- SEWER MAIN
- SEWER MAIN BY P.C.
- ELECTRIC DUCT
- TELEPHONE/COMMUNICATIONS/FIRE ALARM
- GARAGE WASTE LINE
- GARAGE WASTE LINE BY P.C.
- VENTS BY P.C.
- GAS MAIN
- WATER MAIN
- OVERHEAD WIRES
- GUARD RAIL (SIZE AND TYPE NOTED)
- HIGHWAY / PROPERTY BOUND (TYPE NOTED)
- CITY OR TOWN OR COUNTY LAYOUT LINE
- CITY, TOWN OR COUNTY BOUNDARY
- BASE OR SURVEY LINE
- CENTERLINE OF CONSTRUCTION
- PROPERTY LINE
- WHEELCHAIR RAMP (WCR)
- TREE (SIZE AND TYPE NOTED)
- FENCE (SIZE AND TYPE NOTED)
- EASEMENT LINE/ FUTURE CITY PROPERTY LINE
- MADOT STANDARD SPECIFICATION REFERENCE NUMBER
- TEST PIT/BORINGS
- MONITORING WELL
- GUY POLE
- FLAG POLE
- SIGN
- TREE LINE
- BOLLARD
- BIKE RACK
- SAWCUT
- EROSION CONTROL (SPECIFIED ON PLANS)
- OBSERVATION WELL
- LIMIT OF WORK
- TEMPORARY FENCE
- CONCRETE BOUND FOUND
- TEMPORARY BENCHMARK (TBM)
- DI WATER REDUCER



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Conservation Commission Submission

Date: JULY 2, 2018

Scale:

Drawn By: NAP

Reviewed By: MJR

Checked By: JJA

Approved By: SRA

Drawing Title:
GENERAL NOTES & LEGEND

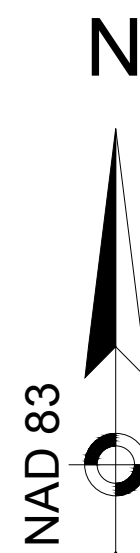
Sheet Number:
C0.01

NOTES:

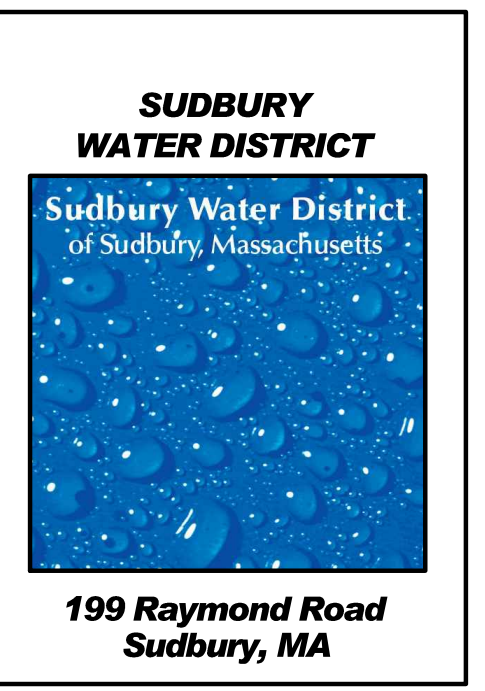
1. BEARINGS REFER TO THE MASSACHUSETTS NAD 83 STATE PLANE COORDINATE SYSTEM (MAINLAND ZONE).
2. ELEVATIONS REFER TO THE 1988 NORTH AMERICAN DATUM (NAVD 88).
3. UNDERGROUND UTILITY, STRUCTURE AND FACILITY LOCATIONS DEPICTED HEREON HAVE BEEN COMPILED, IN PART, FROM RECORD MAPPING AND OTHER DATA SUPPLIED BY THE RESPECTIVE UTILITY COMPANIES, GOVERNMENTAL AGENCIES AND/OR OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE SITE, THE EXISTENCE OF WHICH ARE UNKNOWN TO WESTON & SAMPSON. THE EXISTENCE, SIZE AND LOCATION OF ALL SUCH FEATURES MUST BE DETERMINED AND VERIFIED IN THE FIELD BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION. CALL BEFORE YOU DIG.

LEGEND

- EDGE OF WOODS
- DECIDUOUS TREE
- CONIFEROUS TREE
- SHRUB/BUSH
- SIGN
- UTILITY POLE
- LIGHT POLE
- HYDRANT
- WATER SHUTOFF
- GAS VALVE
- WATER VALVE
- MONUMENT
- IRON PIN / IRON ROD
- HANDICAP SPACE
- PROPERTY LINE
- EASEMENT
- STORM SEWER LINE
- SANITARY SEWER LINE
- WATER LINE
- GAS LINE
- SIGNAL WIRE LINE
- CABLE LINE
- FIBER OPTIC LINE
- LOW PRESSURE SEWER LINE
- ELECTRIC LINE
- HEATING LINE
- TELEPHONE LINE
- UNDERGROUND ELECTRIC LINE
- SANITARY MANHOLE (SMH)
- STORM MANHOLE (STMH)
- CATCHBASIN (CB)
- METAL POST/BOLLARD (BOL)
- ELECTRIC MANHOLE (MHE)
- UNKNOWN MANHOLE
- TELEPHONE MANHOLE (MHT)
- MAJOR CONTOUR LINE
- MINOR CONTOUR LINE



SCALE: 1" = 20'
NOT FOR CONSTRUCTION



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Date: JULY 2, 2018

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Reviewed By: AKP







Checked By: JJA

Approved By: JJA

Drawing Title:
EXISTING CONDITIONS PLAN

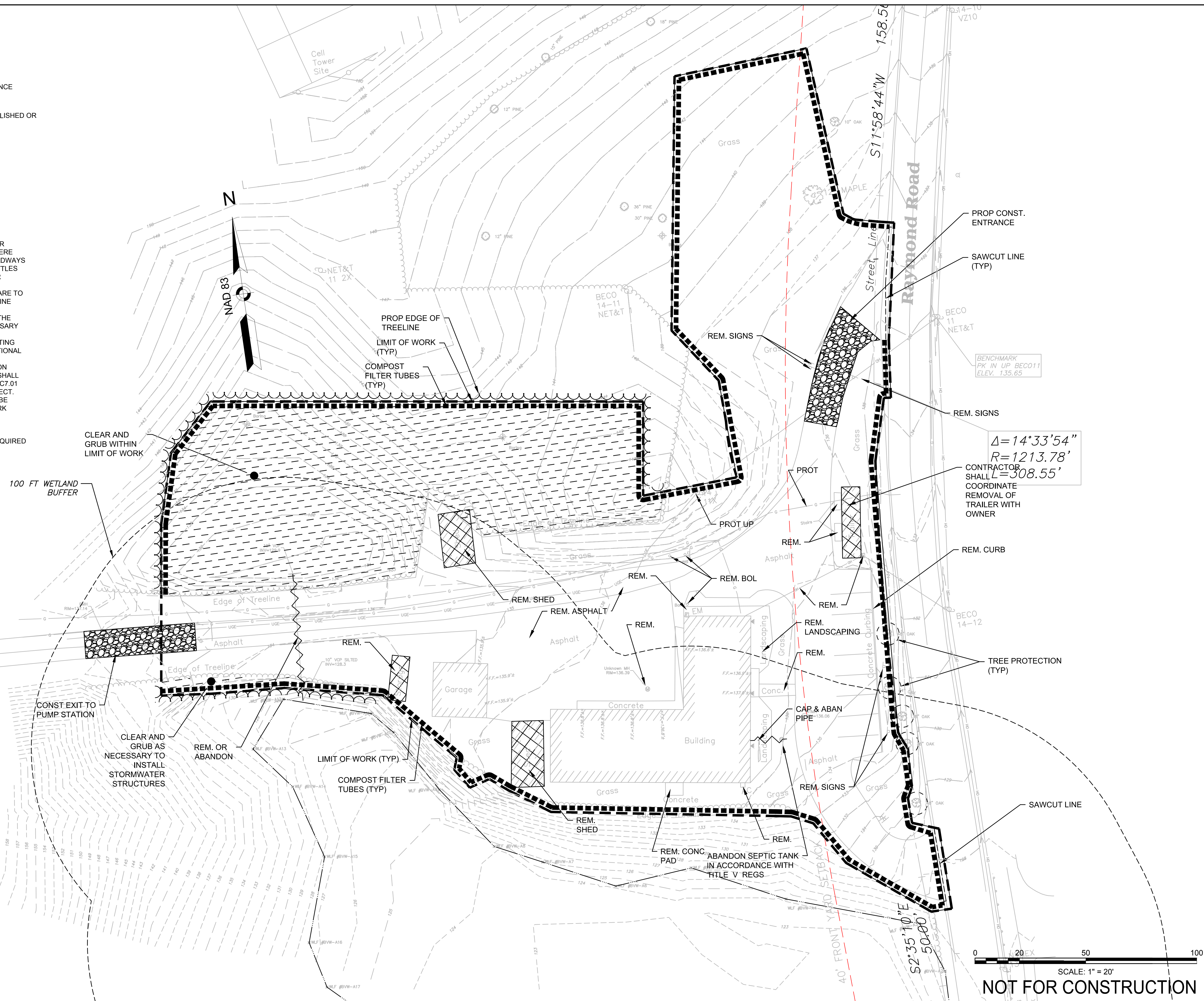
Sheet Number:
C1.01

SITE PREPARATIONS LEGEND

-  CLEAR AND GRUB
-  STABILIZED CONST ENTRANCE
-  STRUCTURES TO BE DEMOLISHED OR REMOVED FROM SITE
-  TREE PROTECTION
-  COMPOST FILTER TUBES
-  LIMIT OF WORK

NOTES:

1. SITE PERIMETER SHALL HAVE COMPOST FILTER TUBES INSTALLED AT THE LIMIT OF WORK. WHERE LIMIT OF WORK EXTENDS INTO ADJACENT ROADWAYS OR PROPERTY, THE LOCATION OF STRAW WATTLES SHALL BE LOCATED AT EDGE OF ROADWAY OR PROPERTY.
2. ALL EXIST UTILITIES AND DRAIN LINES WHICH ARE TO BE ABANDONED MUST BE CUT AT PROPERTY LINE AND CAPPED AND FILLED WITH CDF.
3. SAW CUTTING SHALL BE CONDUCTED ALONG THE LIMIT OF WORK OF RAYMOND ROAD AS NECESSARY TO INSTALL DRIVEWAYS AND UTILITIES.
4. ALL SAW CUT/ EXCAVATED PAVEMENT IN EXISTING ROADWAYS SHALL BE RESTORED AT NO ADDITIONAL COST TO THE OWNER.
5. CONTRACTOR SHALL MAINTAIN CONSTRUCTION ENTRANCE/PAD. CONSTRUCTION ENTRANCE SHALL BE IN ACCORDANCE WITH DETAIL 1 ON SHEET C7.01 AND MAINTAINED THROUGHOUT ENTIRE PROJECT.
6. ALL EXISTING BITUMINOUS CONCRETE SHALL BE REMOVED TO COMPLETE THE PROPOSED WORK WITHOUT ADJUSTMENT TO COMPENSATION.
7. IF POLICE DETAIL IS REQUIRED FOR WORK ON RAYMOND ROAD, THE CONTRACTOR SHALL COORDINATE AND PAY FOR THE DETAIL AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.



$$\Delta = 14^{\circ}33'54''$$

$$R = 1213.78'$$

$$L = 308.55'$$

BENCHMARK
PK IN UP BECO11
ELEV. 135.65

Revisions:

Rev	Date	Description



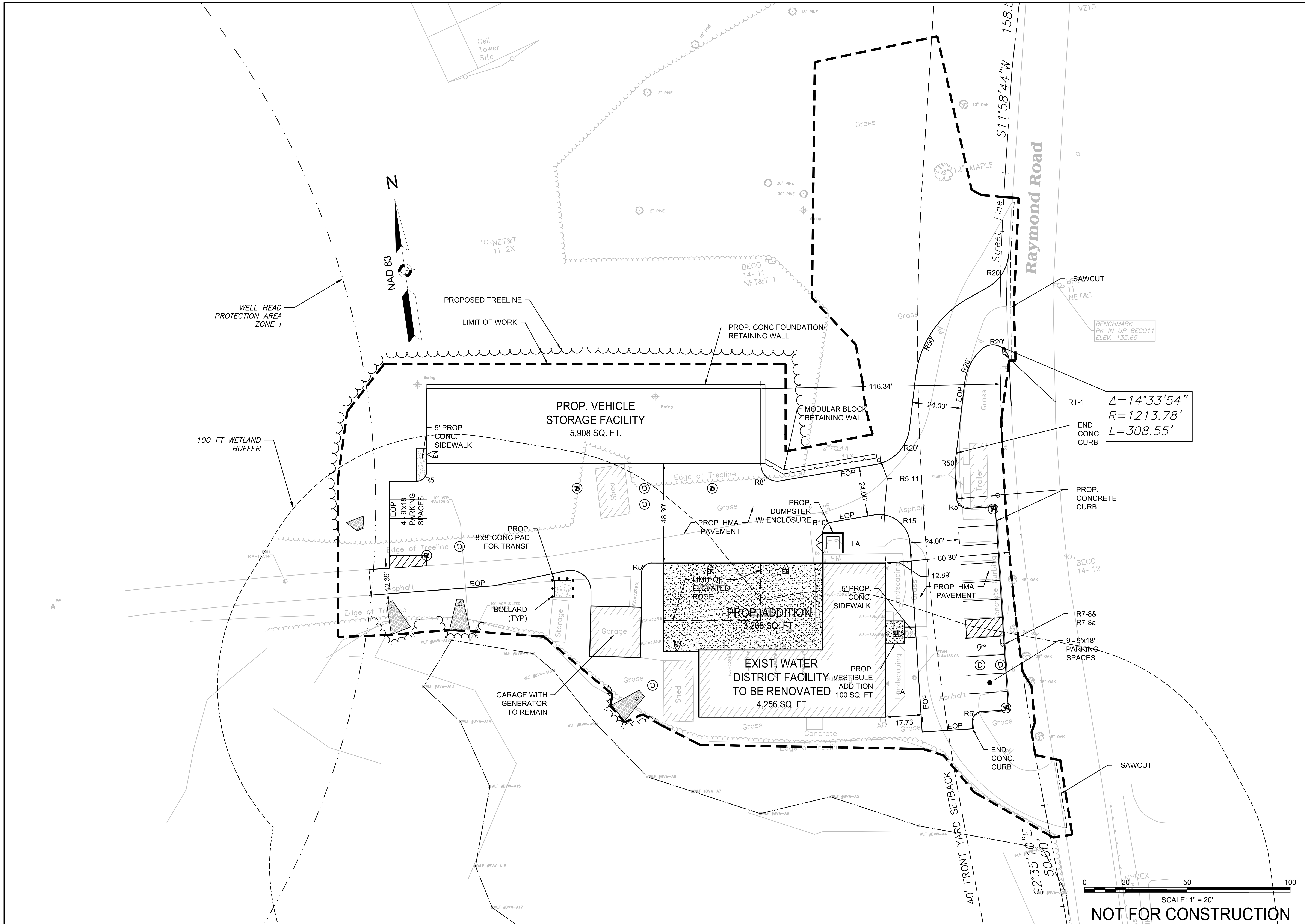
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Drawn By: NAP
Reviewed By: AKP
Checked By: JJA
Approved By: JJA

Drawing Title:
SITE PREPARATION AND SOIL EROSION CONTROL PLAN

Sheet Number:
C2.01

SCALE: 1" = 20'
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Date: JULY 2, 2018
 Scale: 1"=20'
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 Reviewed By: AKP
 Checked By: JJA
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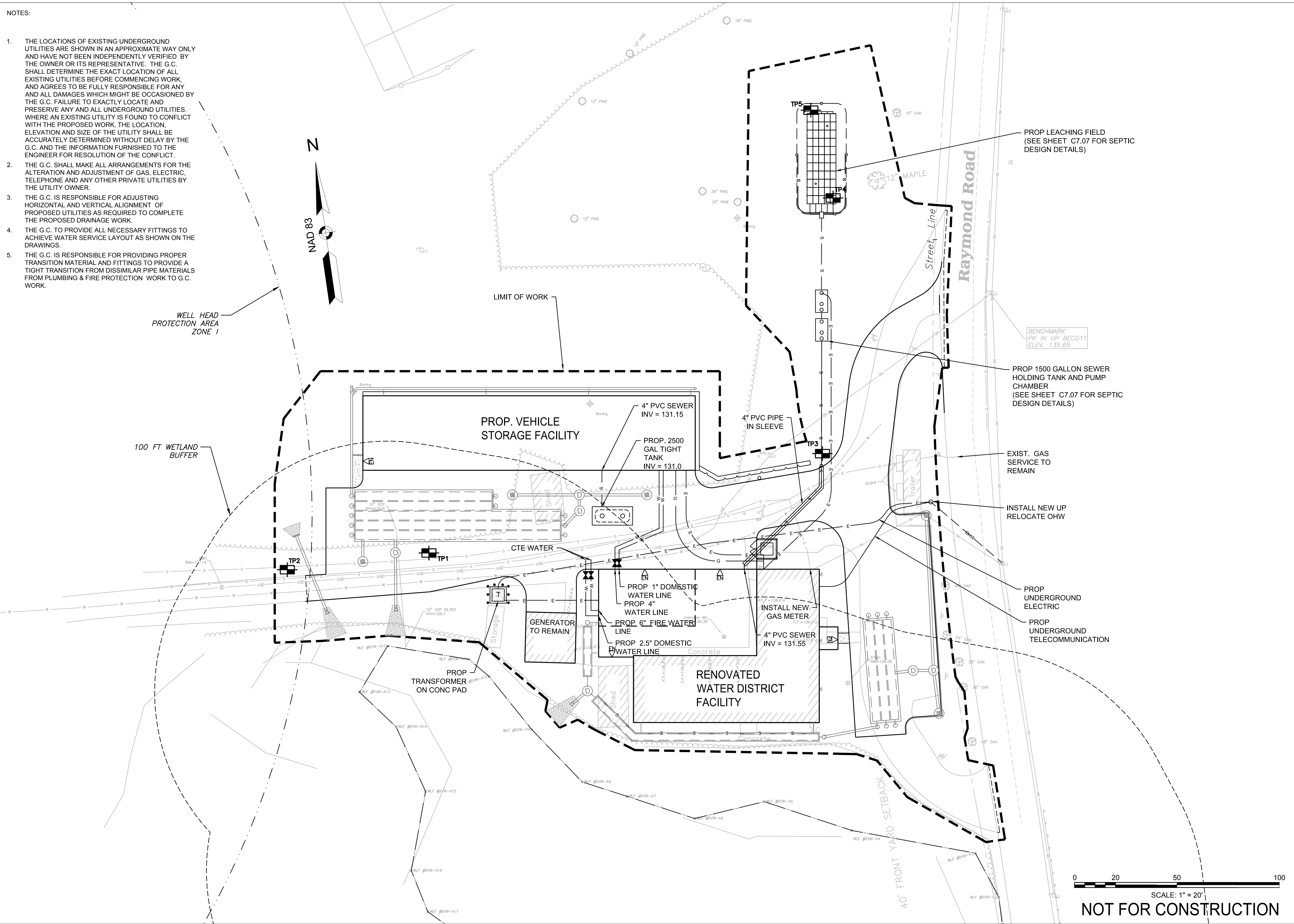
Drawing Title:
LAYOUT & MATERIALS PLAN

Sheet Number:
C3.01

SCALE: 1" = 20'
NOT FOR CONSTRUCTION

NOTES:

1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE G.C. SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE G.C. FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE G.C. AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
2. THE G.C. SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY OWNER.
3. THE G.C. IS RESPONSIBLE FOR ADJUSTING HORIZONTAL AND VERTICAL ALIGNMENT OF PROPOSED UTILITIES AS REQUIRED TO COMPLETE THE PROPOSED DRAINAGE WORK.
4. THE G.C. TO PROVIDE ALL NECESSARY FITTINGS TO ACHIEVE WATER SERVICE LAYOUT AS SHOWN ON THE DRAWINGS.
5. THE G.C. IS RESPONSIBLE FOR PROVIDING PROPER TRANSITION MATERIAL AND FITTINGS TO PROVIDE A TIGHT TRANSITION FROM DISSIMILAR PIPE MATERIALS FROM PLUMBING & FIRE PROTECTION WORK TO G.C. WORK.



PROP LEACHING FIELD
(SEE SHEET C7.07 FOR SEPTIC DESIGN DETAILS)

PROP 1500 GALLON SEWER HOLDING TANK AND PUMP CHAMBER
(SEE SHEET C7.07 FOR SEPTIC DESIGN DETAILS)

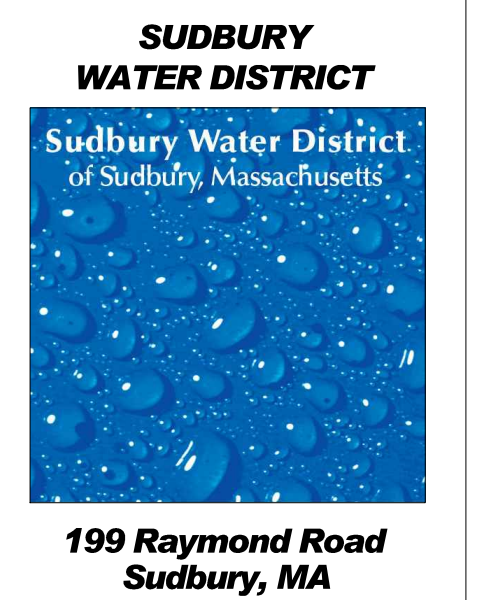
EXIST. GAS SERVICE TO REMAIN

INSTALL NEW UP RELOCATE OHW

PROP UNDERGROUND ELECTRIC

PROP UNDERGROUND TELECOMMUNICATION

BENCHMARK
PK IN UP BECO11
ELEV. 135.65



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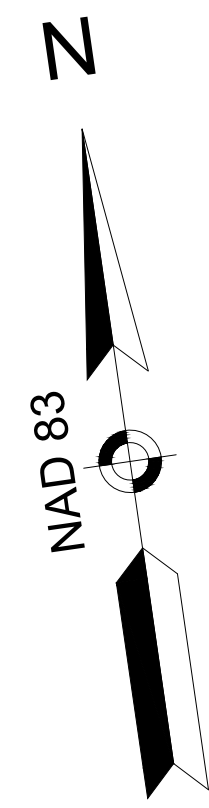
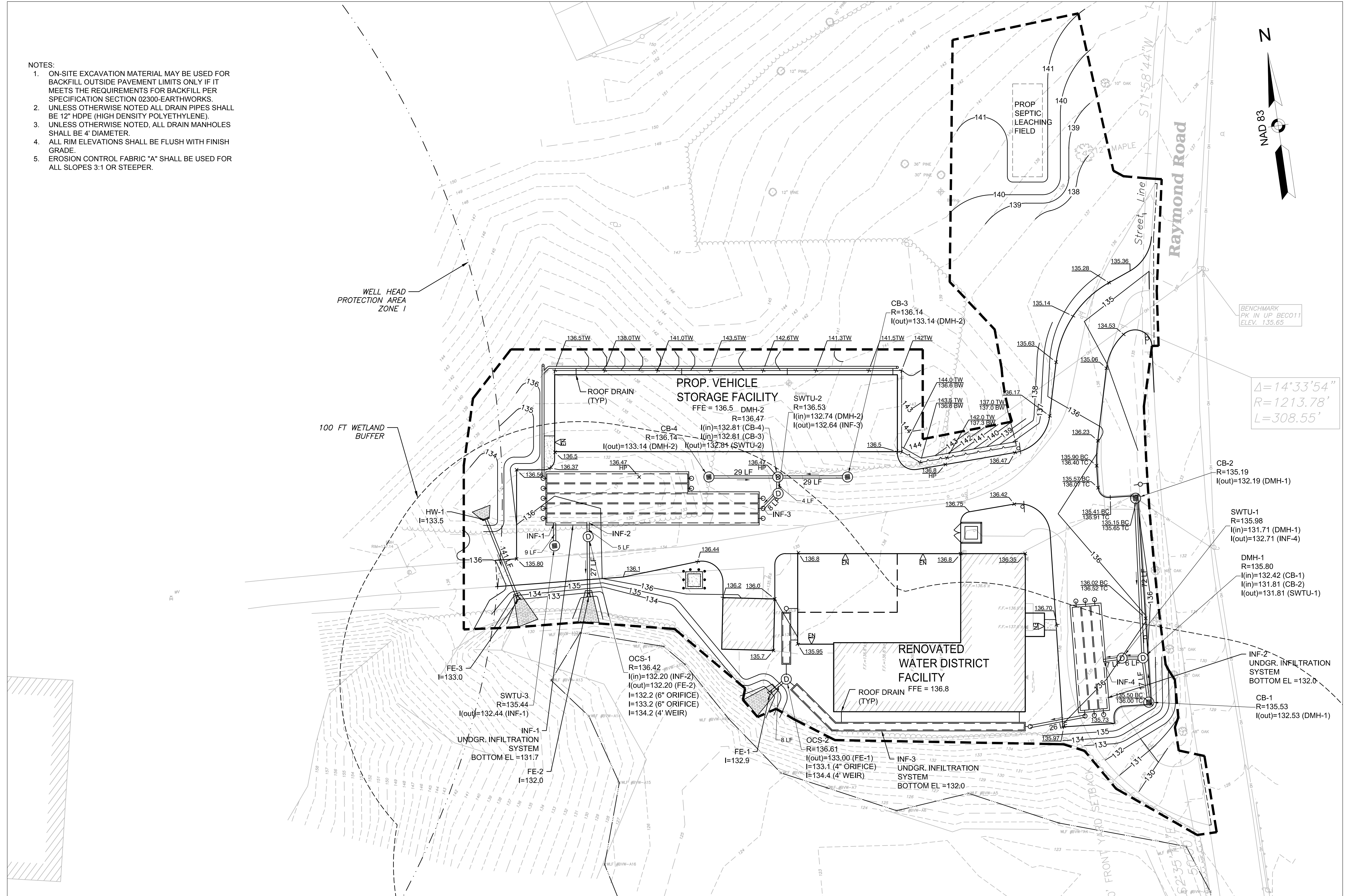
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UTILITY PLAN

Sheet Number:
C4.01

0 20 50 100
SCALE: 1" = 20'
NOT FOR CONSTRUCTION

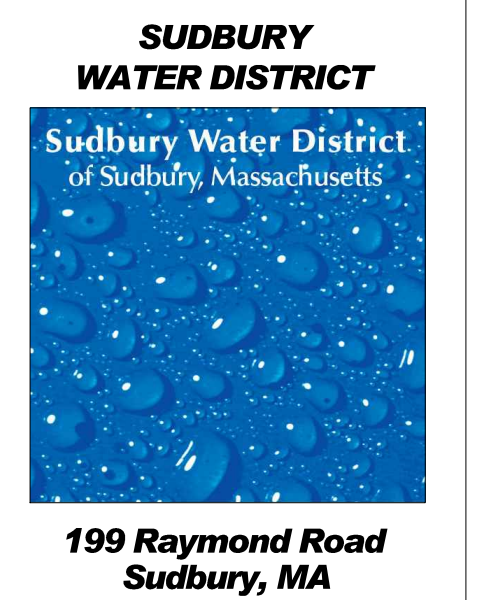
NOTES:

1. ON-SITE EXCAVATION MATERIAL MAY BE USED FOR BACKFILL OUTSIDE PAVEMENT LIMITS ONLY IF IT MEETS THE REQUIREMENTS FOR BACKFILL PER SPECIFICATION SECTION 02300-EARTHWORKS.
2. UNLESS OTHERWISE NOTED ALL DRAIN PIPES SHALL BE 12" HDPE (HIGH DENSITY POLYETHYLENE).
3. UNLESS OTHERWISE NOTED, ALL DRAIN MANHOLES SHALL BE 4' DIAMETER.
4. ALL RIM ELEVATIONS SHALL BE FLUSH WITH FINISH GRADE.
5. EROSION CONTROL FABRIC "A" SHALL BE USED FOR ALL SLOPES 3:1 OR STEEPER.



BENCHMARK
PK IN UP BECO11
ELEV. 135.65

$\Delta = 14^{\circ}33'54''$
 $R = 1213.78'$
 $L = 308.55'$



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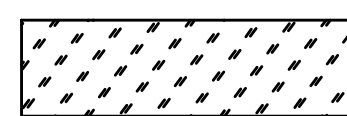
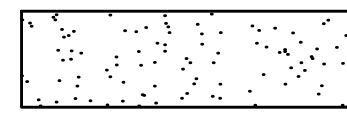
Date: JULY 2, 2018
 Scale: 1"=20'
 Drawn By: NAP
 Reviewed By: AKP
 Checked By: JJA
 Approved By: JJA

Drawing Title:
GRADING & DRAINAGE PLAN

Sheet Number:
C5.01

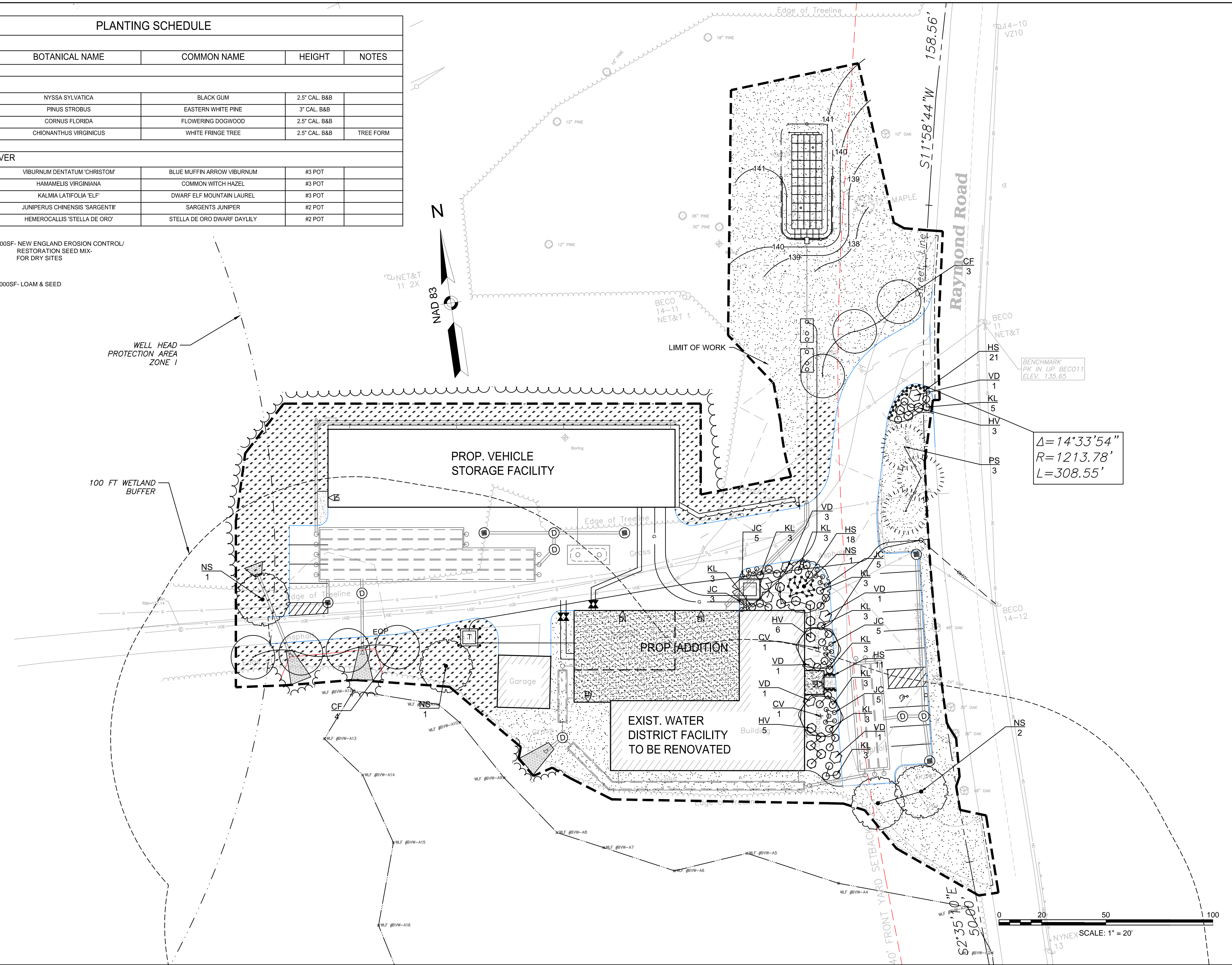
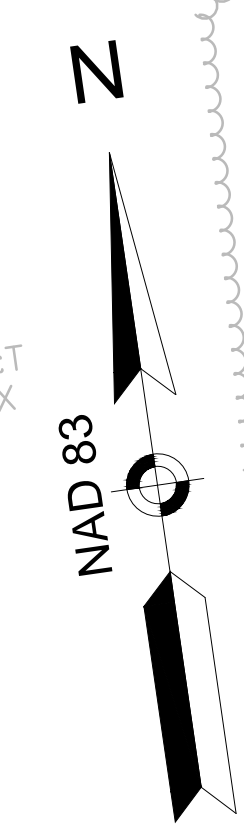
0 20 50 100
 SCALE: 1" = 20'
NOT FOR CONSTRUCTION

PLANTING SCHEDULE					
KEY	QTY.	BOTANICAL NAME	COMMON NAME	HEIGHT	NOTES
DECIDUOUS TREES					
NS	5	NYSSA SYLVATICA	BLACK GUM	2.5" CAL. B&B	
PS	3	PINUS STROBUS	EASTERN WHITE PINE	3" CAL. B&B	
CF	7	CORNUS FLORIDA	FLOWERING DOGWOOD	2.5" CAL. B&B	
CV	2	CHIONANTHUS VIRGINICUS	WHITE FRINGE TREE	2.5" CAL. B&B	TREE FORM
SHRUBS & GROUNDCOVER					
VD	8	VIBURNUM DENTATUM 'CHRISTOM'	BLUE MUFFIN ARROW VIBURNUM	#3 POT	
HV	14	HAMAMELIS VIRGINIANA	COMMON WITCH HAZEL	#3 POT	
KL	32	KALMIA LATIFOLIA 'ELF'	DWARF ELF MOUNTAIN LAUREL	#3 POT	
JC	23	JUNIPERUS CHINENSIS 'SARGENTII'	SARGENTS JUNIPER	#2 POT	
HS	50	HEMEROCALLIS 'STELLA DE ORO'	STELLA DE ORO DWARF DAYLILY	#2 POT	

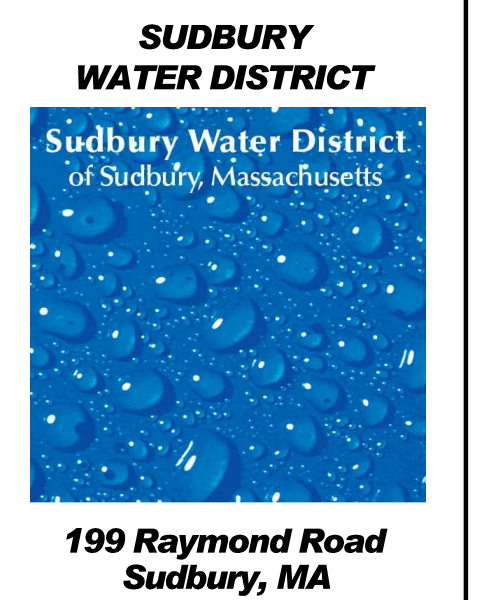
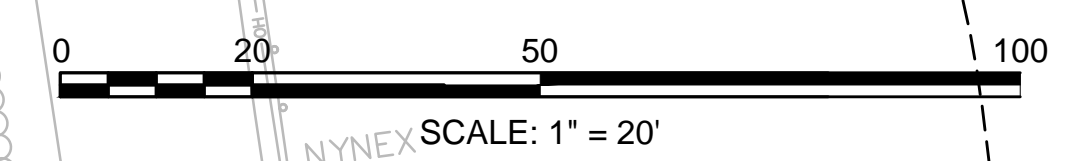
 9,000SF- NEW ENGLAND EROSION CONTROL/ RESTORATION SEED MIX- FOR DRY SITES
 18,000SF- LOAM & SEED

WELL HEAD PROTECTION AREA ZONE 1

100 FT WETLAND BUFFER



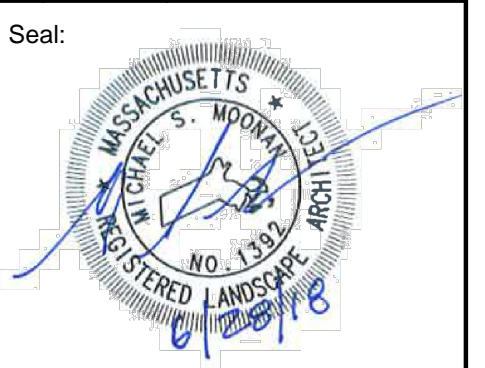
$\Delta = 14^{\circ}33'54''$
 $R = 1213.78'$
 $L = 308.55'$



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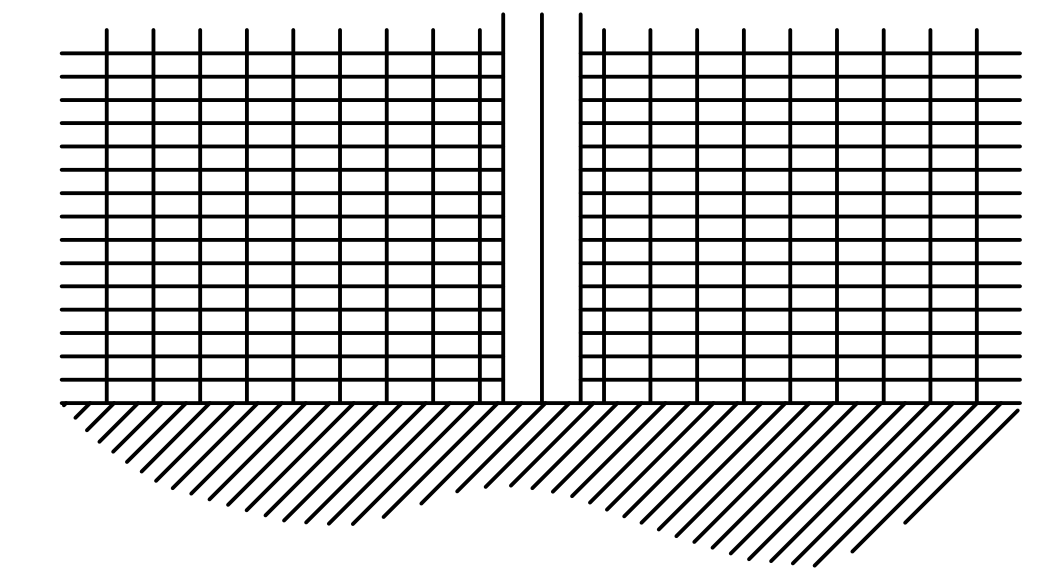
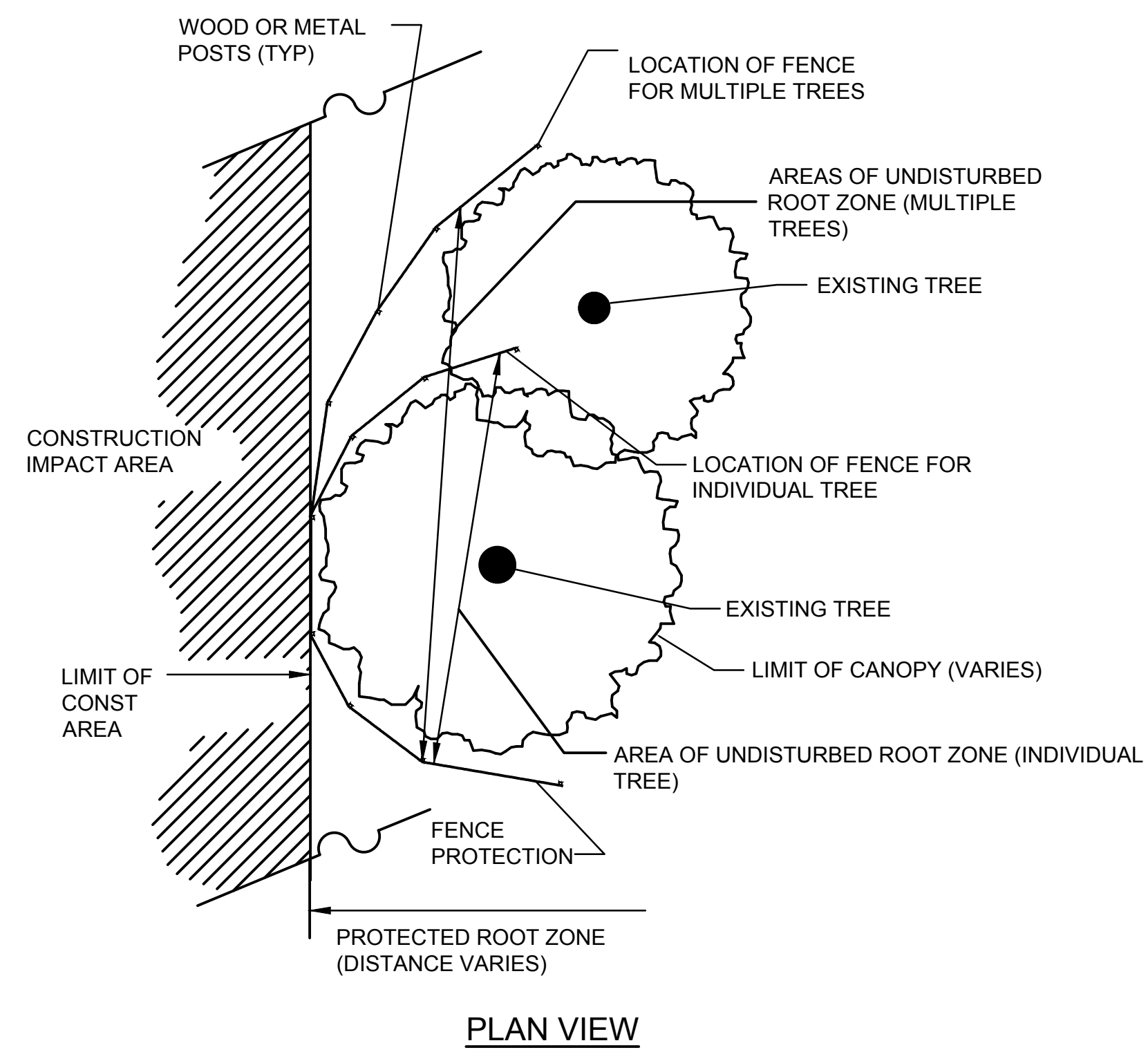


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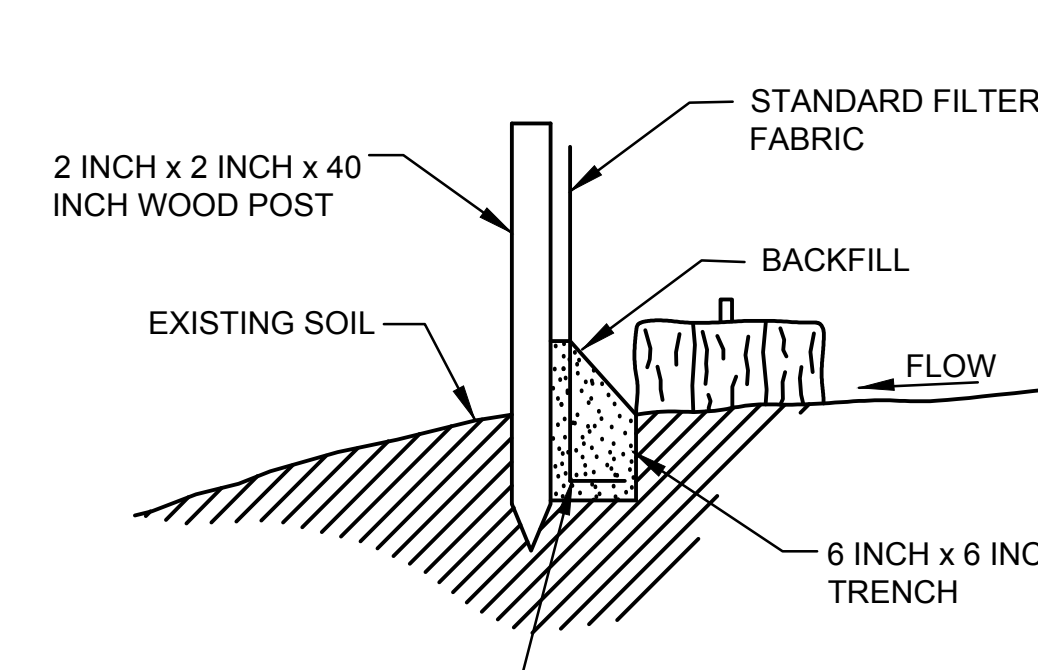
Drawing Title: LANDSCAPE PLAN

Sheet Number: C6.01

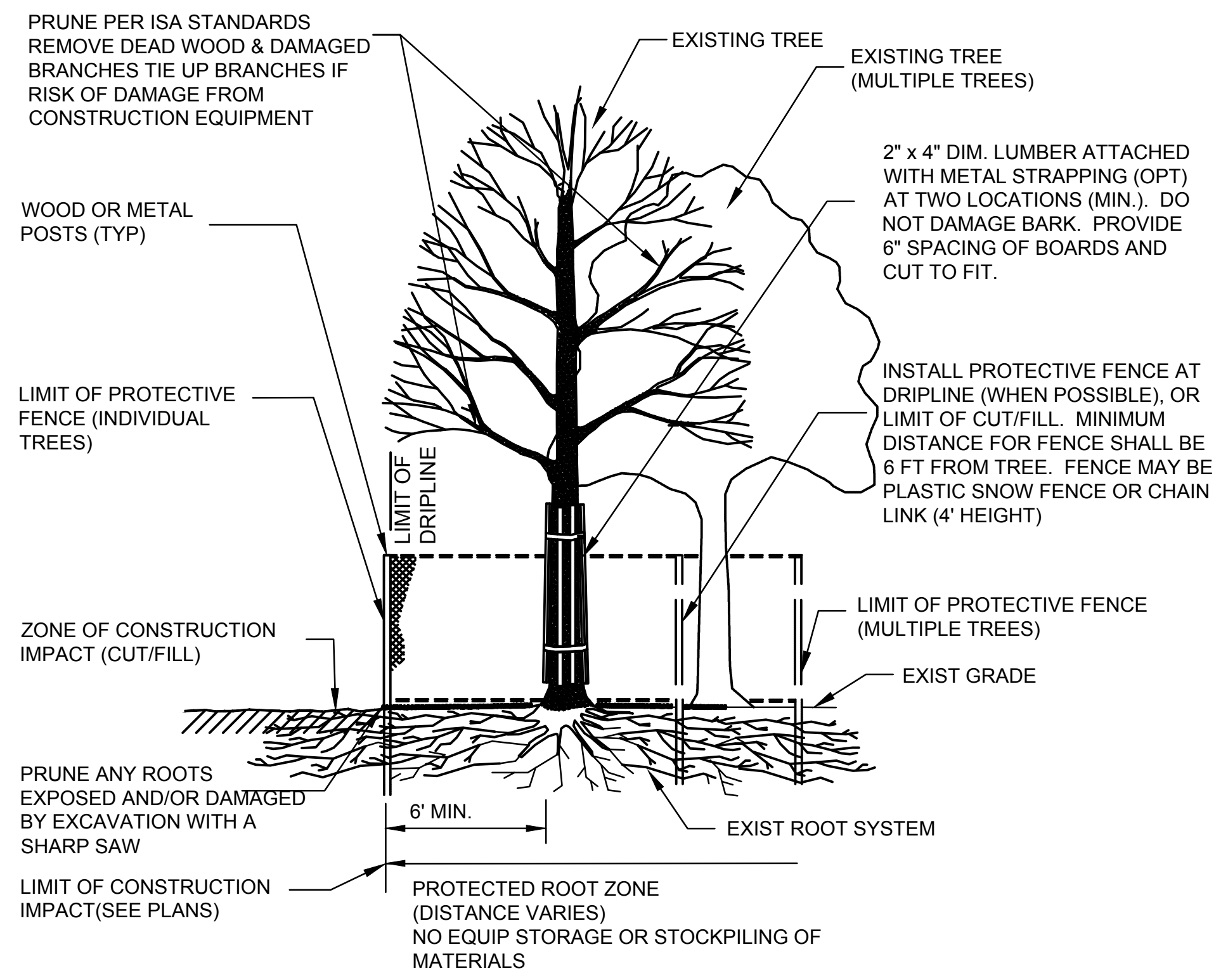


WHEN JOINING TWO OR MORE SILTATION FENCES TIE THE TWO END POSTS TOGETHER WITH NYLON CORD.

DITCH CHECK

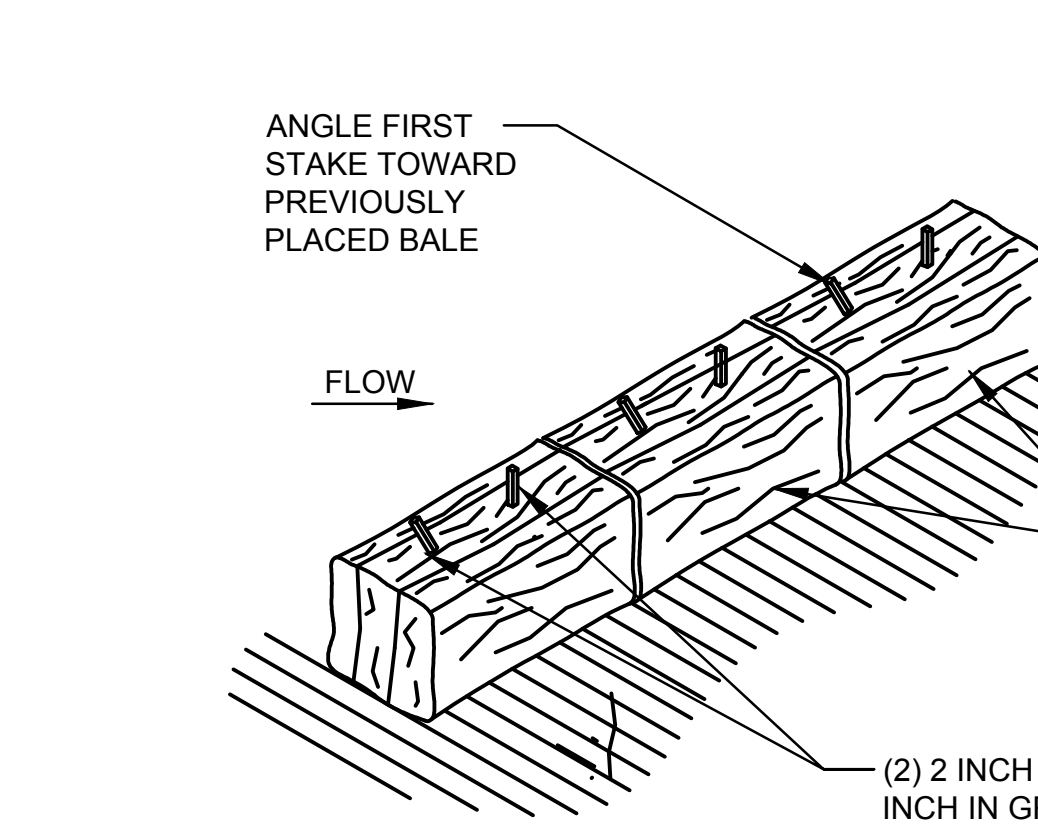


SLOPE CHECK

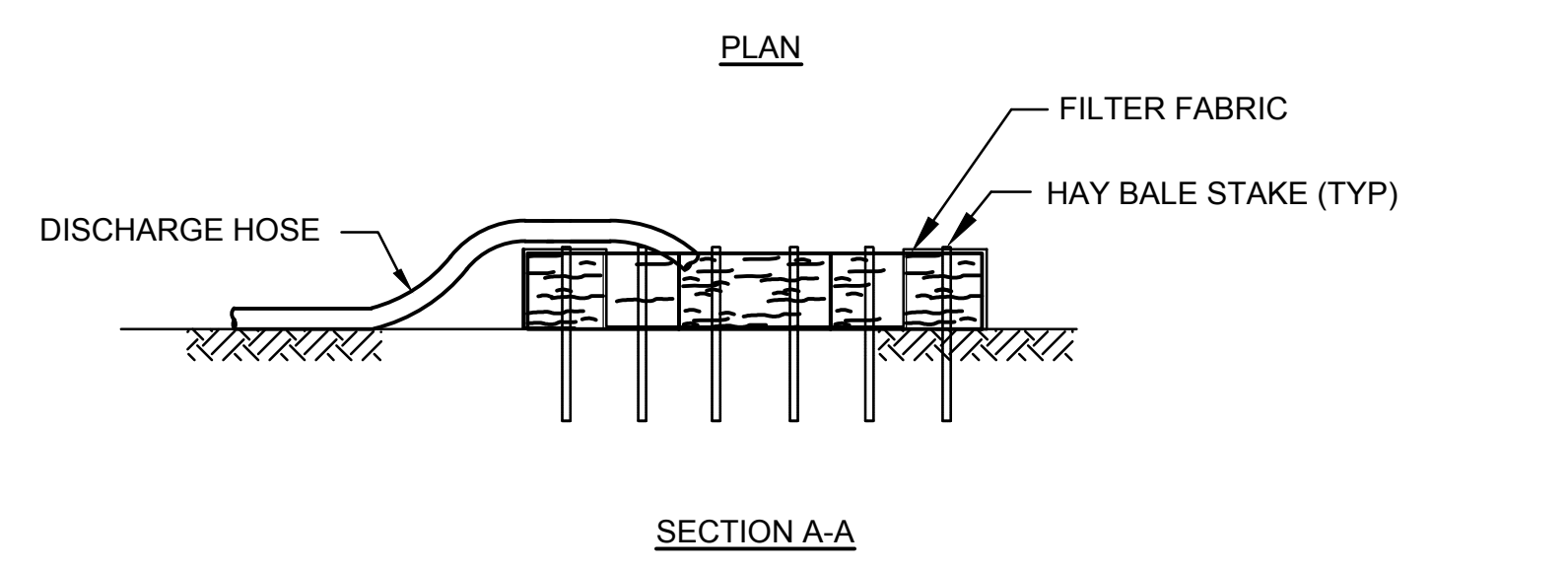
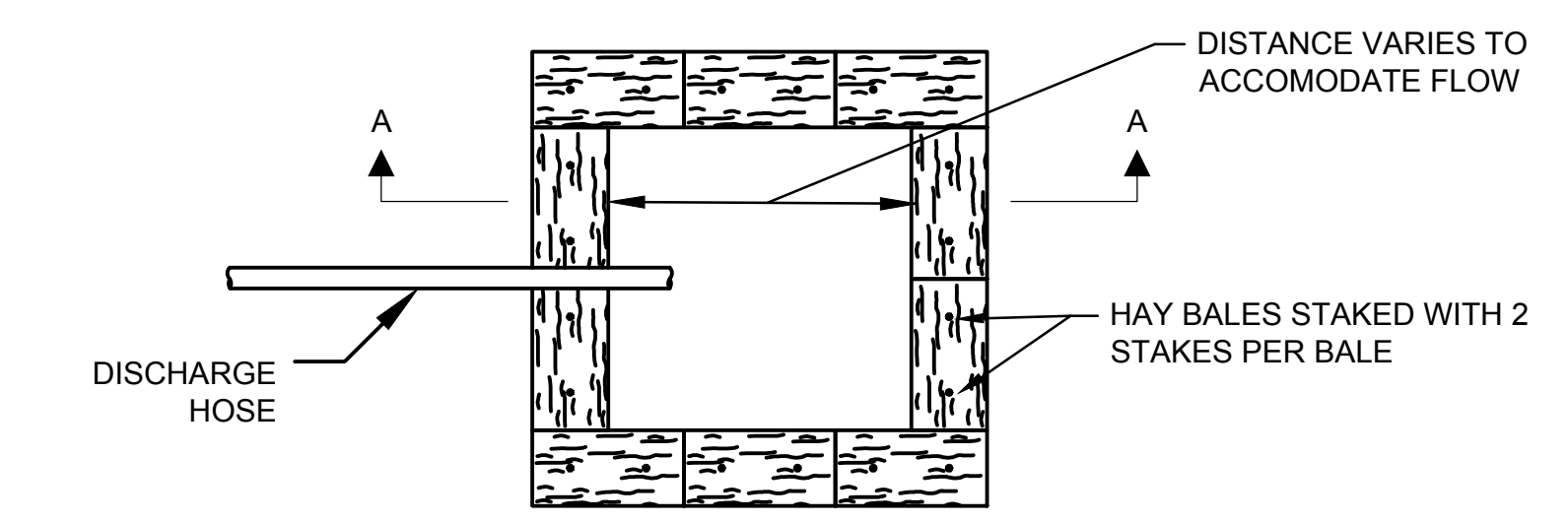


1 EXISTING TREE PROTECTION
SCALE: N.T.S.

2 SILT FENCE- EROSION CONTROL
SCALE: N.T.S.



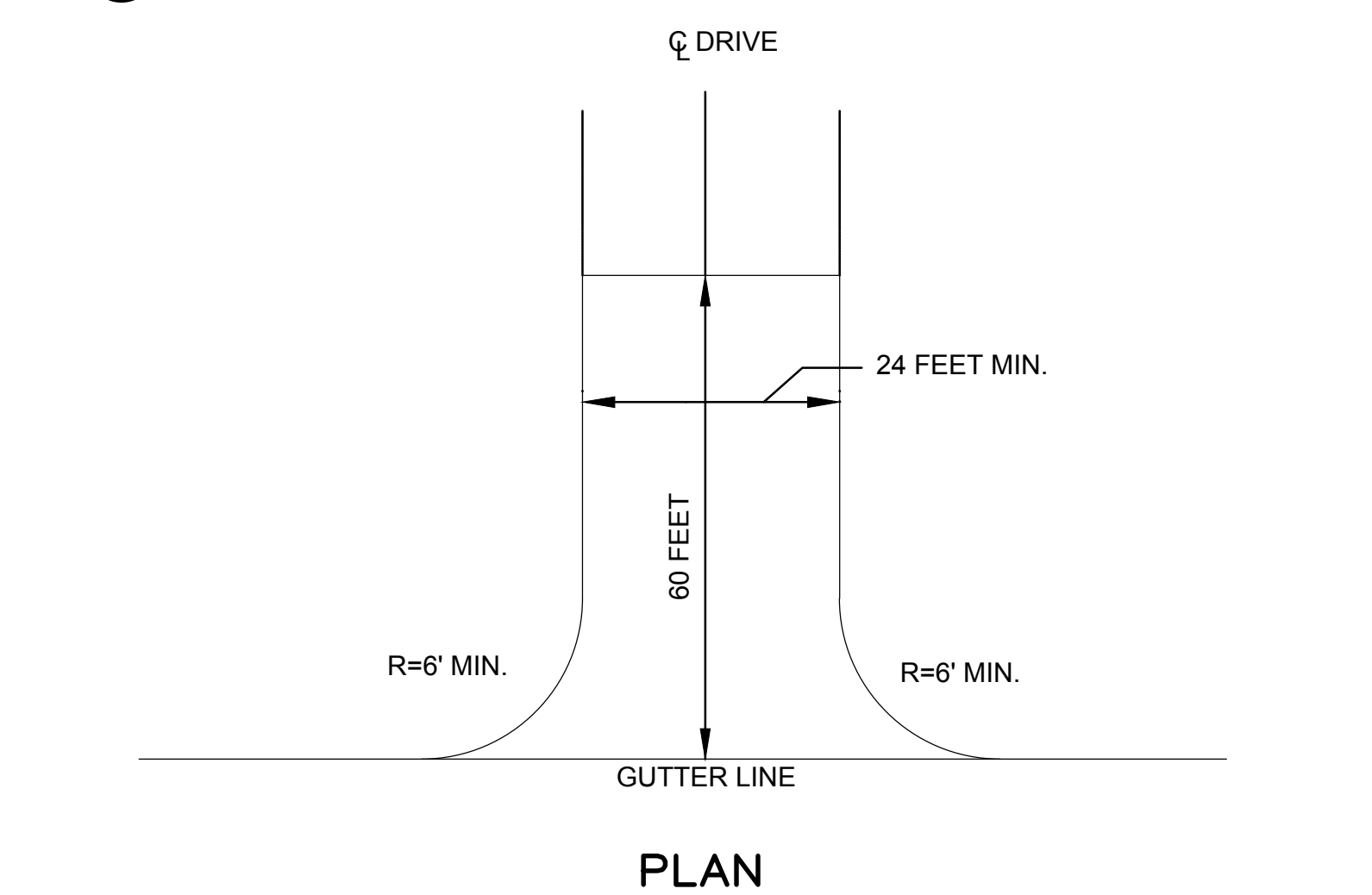
3 STAKED HALE BALES- EROSION CONTROL
SCALE: N.T.S.



DEWATERING NOTES:

1. IF NEEDED A DEWATERING PLAN SHALL BE SUBMITTED FOR APPROVAL PRIOR TO CONSTRUCTION ACTIVITIES INVOLVING DEWATERING. A DEWATERING POOL SHALL BE LOCATED ON THE PLANS OR AS REQUIRED BY THE ENGINEER.
2. ALL EROSION CONTROL DEVICES, INCLUDING DEWATERING POOL SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF ANY DEWATERING ACTIVITIES.
3. THE CONTRACTOR SHALL CLEAN AND MAINTAIN THE DEWATERING POOL ON A REGULAR BASIS. SEDIMENTS REMOVED FROM POOL SHALL BE DISPOSED ACCORDING TO DEP GUIDELINES AND ORDER OF CONDITIONS.
4. ANY DEWATERING OPERATIONS DEEMED NECESSARY BY THE CONTRACTOR OR REQUIRED BY THE ENGINEER SHALL BE INCIDENTAL TO THE PROJECT.
5. THE CONTRACTOR SHALL SUBMIT DEWATERING PLANS, DETAILED PUMP SIZING AND ASSOCIATED POOL SIZING TO THE ENGINEER PRIOR TO THE START OF WORK.

5 DEWATERING DISCHARGE DISPOSAL DETAIL
SCALE: N.T.S.



NOTES:

1. AT LEAST ONE CONSTRUCTION ENTRANCE SHALL BE PLACED AT EACH OF THE SITE, THROUGHOUT CONSTRUCTION.
2. THE LOCATION OF THE CONSTRUCTION ENTRANCE(S) SHALL BE APPROVED BY THE OWNER PRIOR TO PLACEMENT.
3. CONSTRUCTION ENTRANCE(S) SHALL CONSIST OF 2" CRUSHED STONE PLACED AT A DEPTH OF A MINIMUM 8 INCHES PLACED OVER GEOTEXTILE FABRIC.
4. CONTRACTOR IS RESPONSIBLE FOR CLEARING OF ALL VEGETATION, ROOTS AND ALL OBSTRUCTIONS IN PREPARATION FOR GRADING AND COMPACTING PRIOR TO PLACEMENT OF GEOTEXTILE FABRIC AND CRUSHED STONE.
5. CONTRACTOR IS RESPONSIBLE FOR DAILY INSPECTION AND ALL NECESSARY MAINTENANCE OF ALL ENTRANCES.
6. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF SEDIMENTS OR ANY OTHER MATERIALS TRACKED ONTO THE STREET, AS WELL MAINTENANCE OF EROSION CONTROL MEASURES.

4 STABILIZED TEMPORARY CONSTRUCTION ENTRANCE
SCALE: N.T.S.

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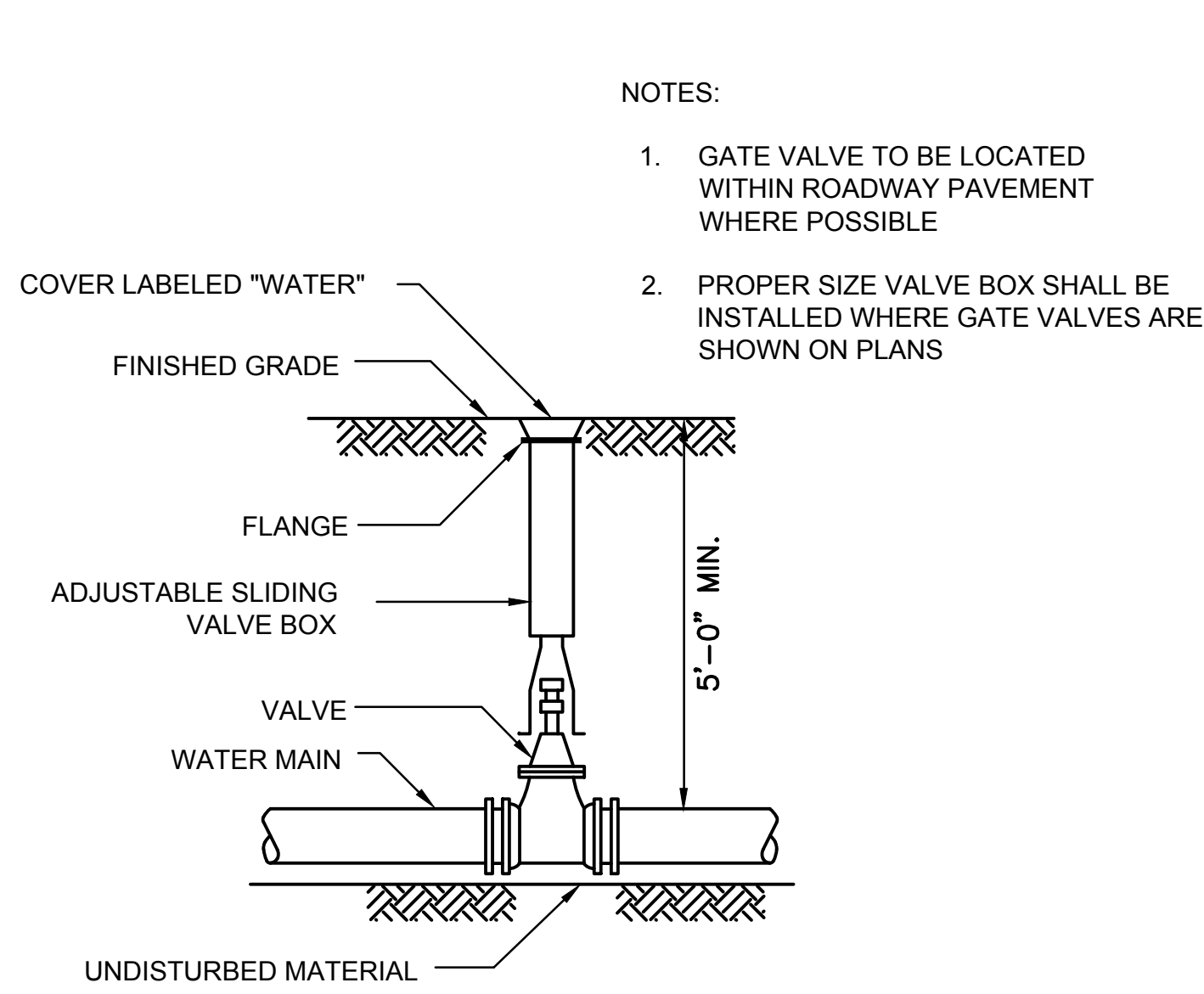


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Checked By: JJA
Approved By: JJA

Drawing Title:
DETAILS

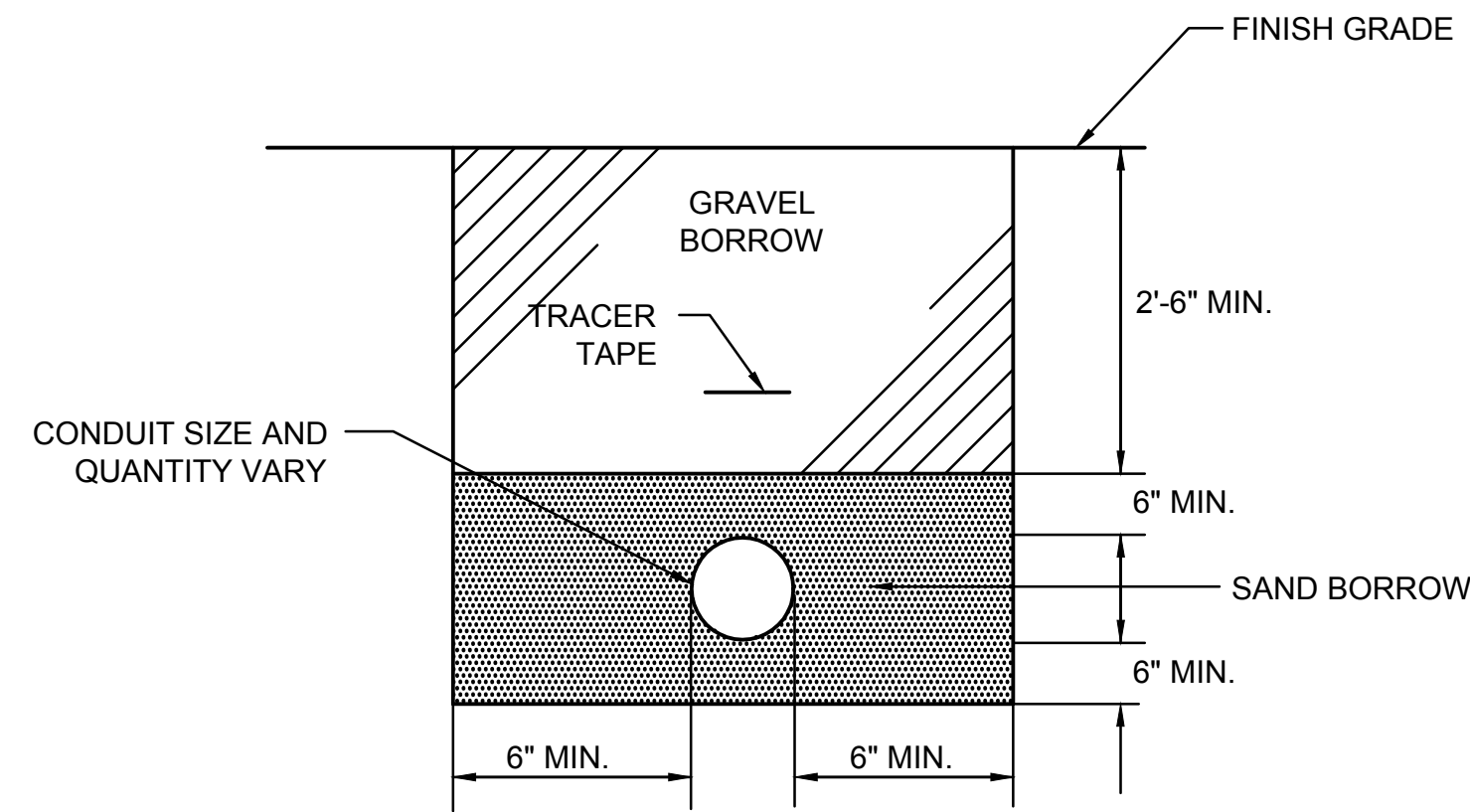
Sheet Number:
C7.01



NOTES:

1. GATE VALVE TO BE LOCATED WITHIN ROADWAY PAVEMENT WHERE POSSIBLE
2. PROPER SIZE VALVE BOX SHALL BE INSTALLED WHERE GATE VALVES ARE SHOWN ON PLANS

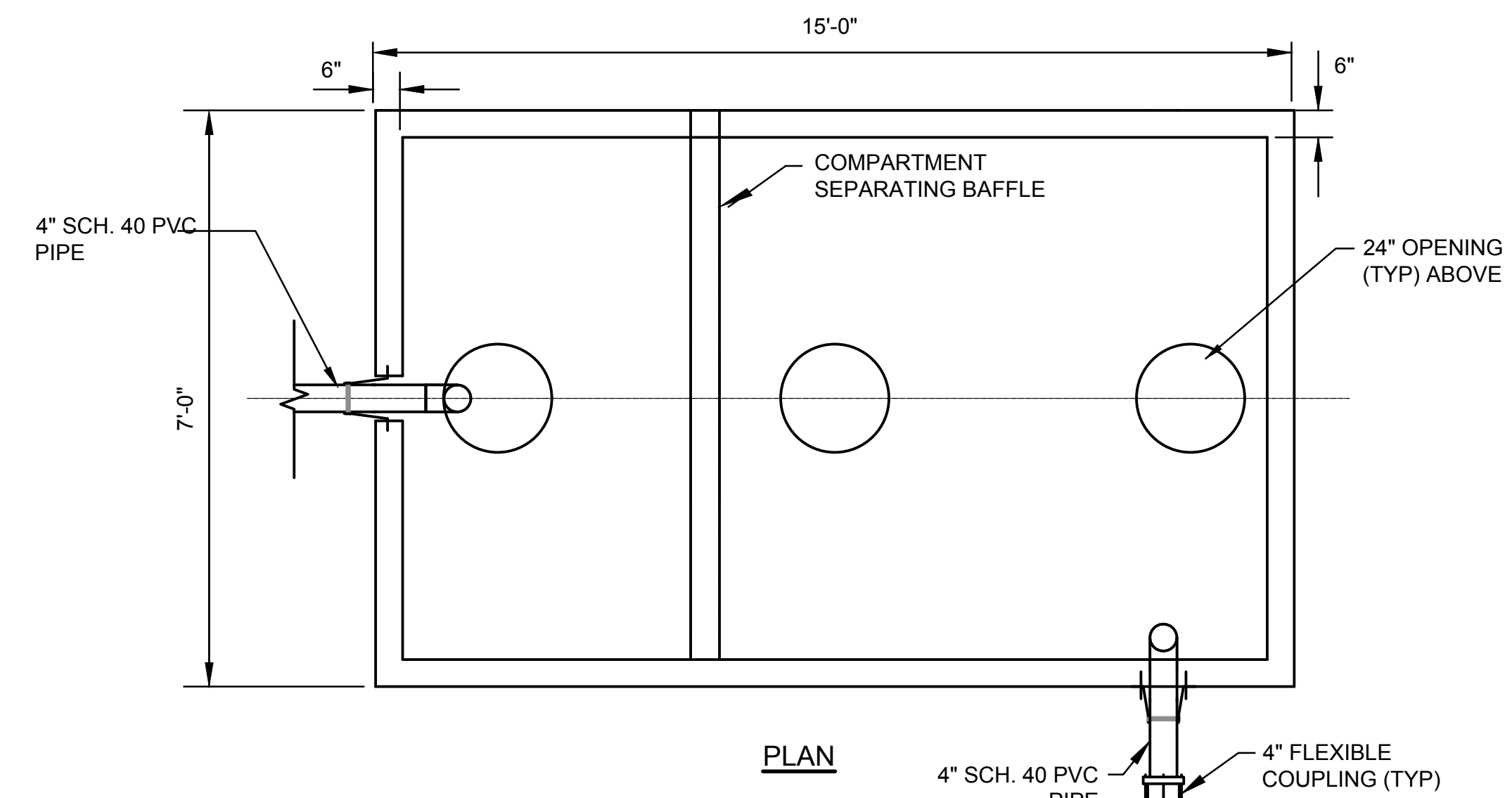
1 VALVE AND BOX DETAIL
SCALE: N.T.S.



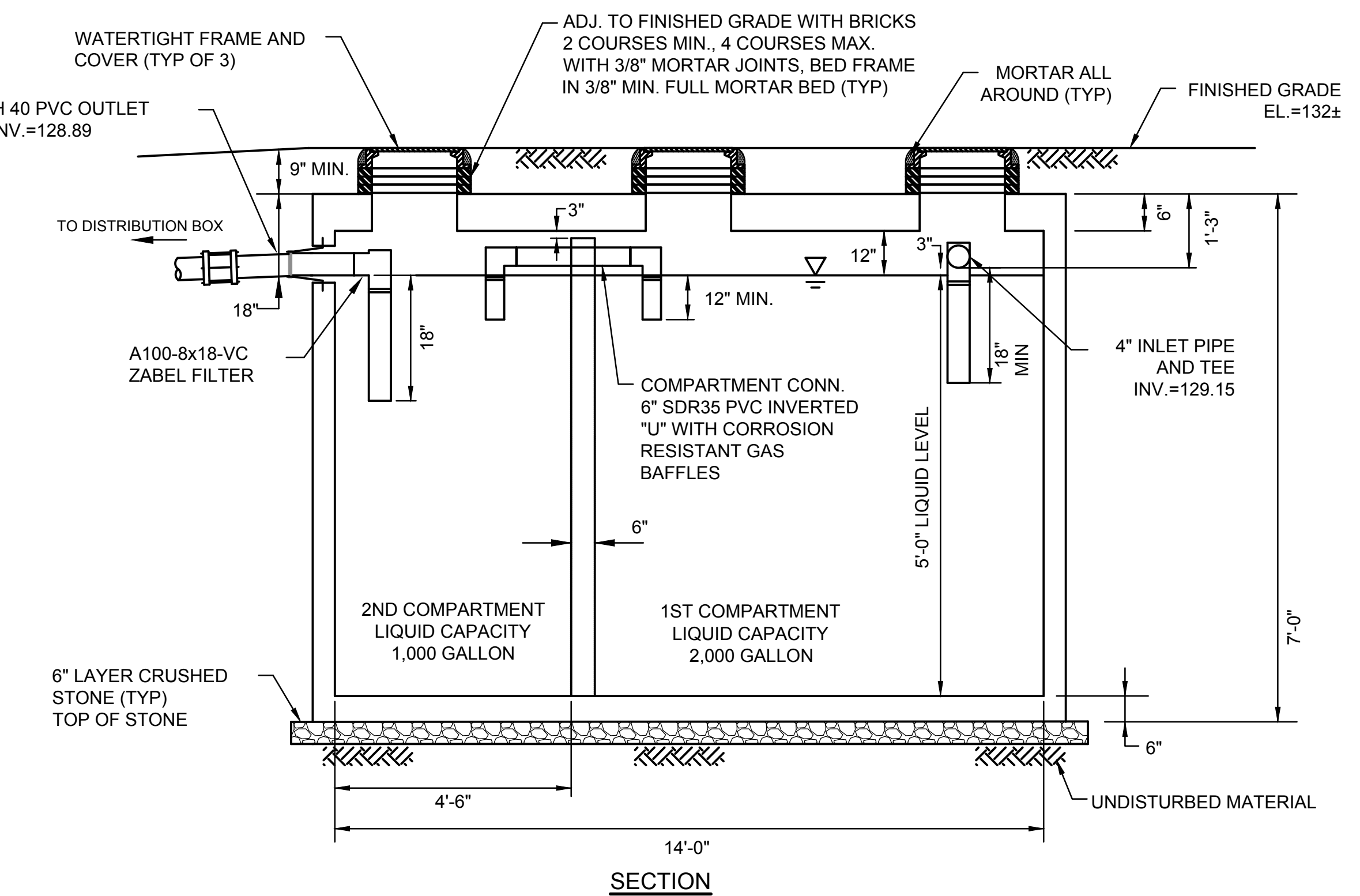
NOTE:

1. GENERAL CONTRACTOR IS RESPONSIBLE FOR EXCAVATION & BACKFILL FOR ELECTRIC/COMMUNICATION CONDUIT. ELECTRICAL CONTRACTOR SHALL PROVIDE & INSTALL CONDUITS & SPACERS.
2. REFER TO E0.01 FOR CONDUIT QUANTITIES & LOCATIONS.

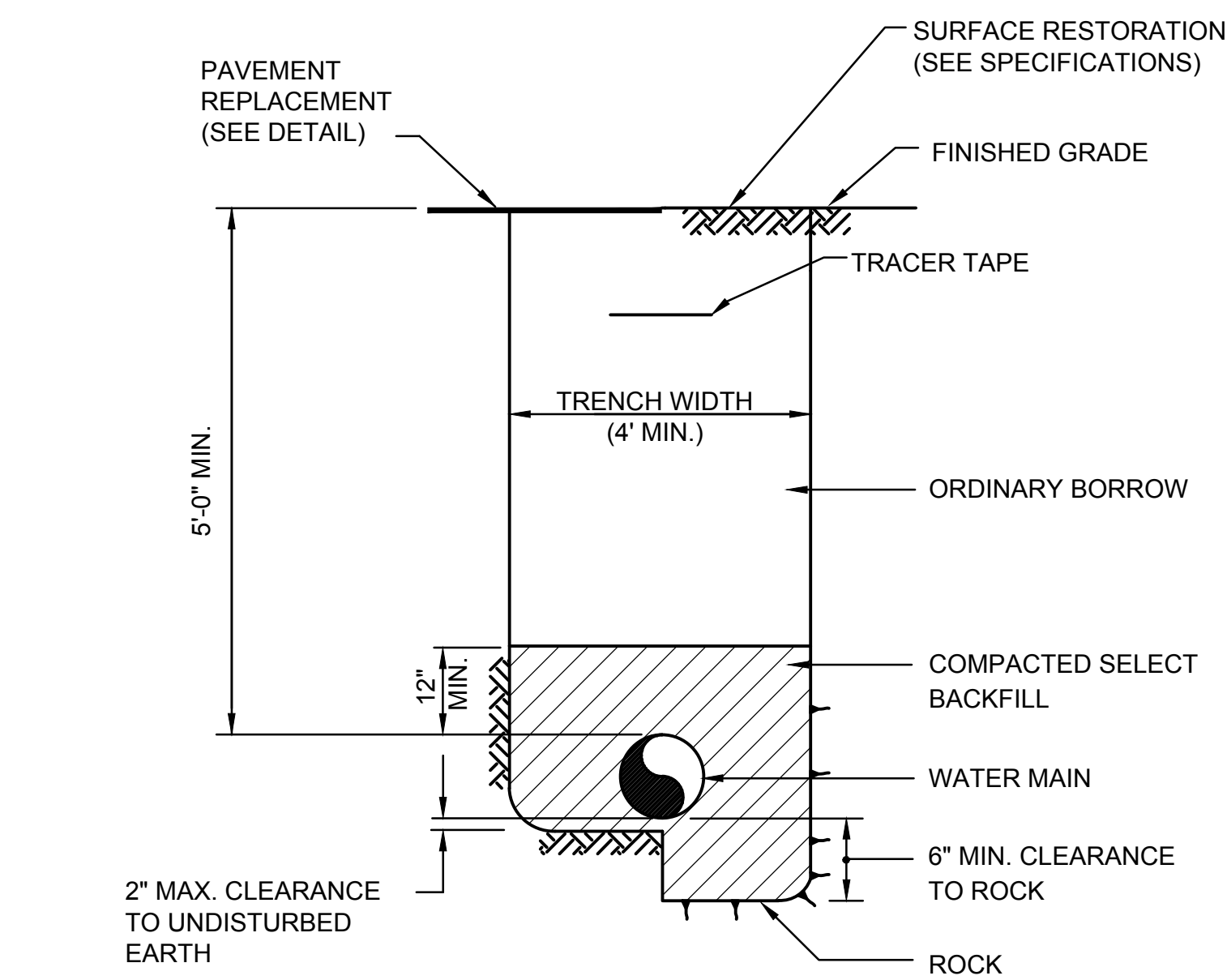
2 ELECTRIC/COMMUNICATION CONDUIT TRENCH DETAIL
SCALE: N.T.S.



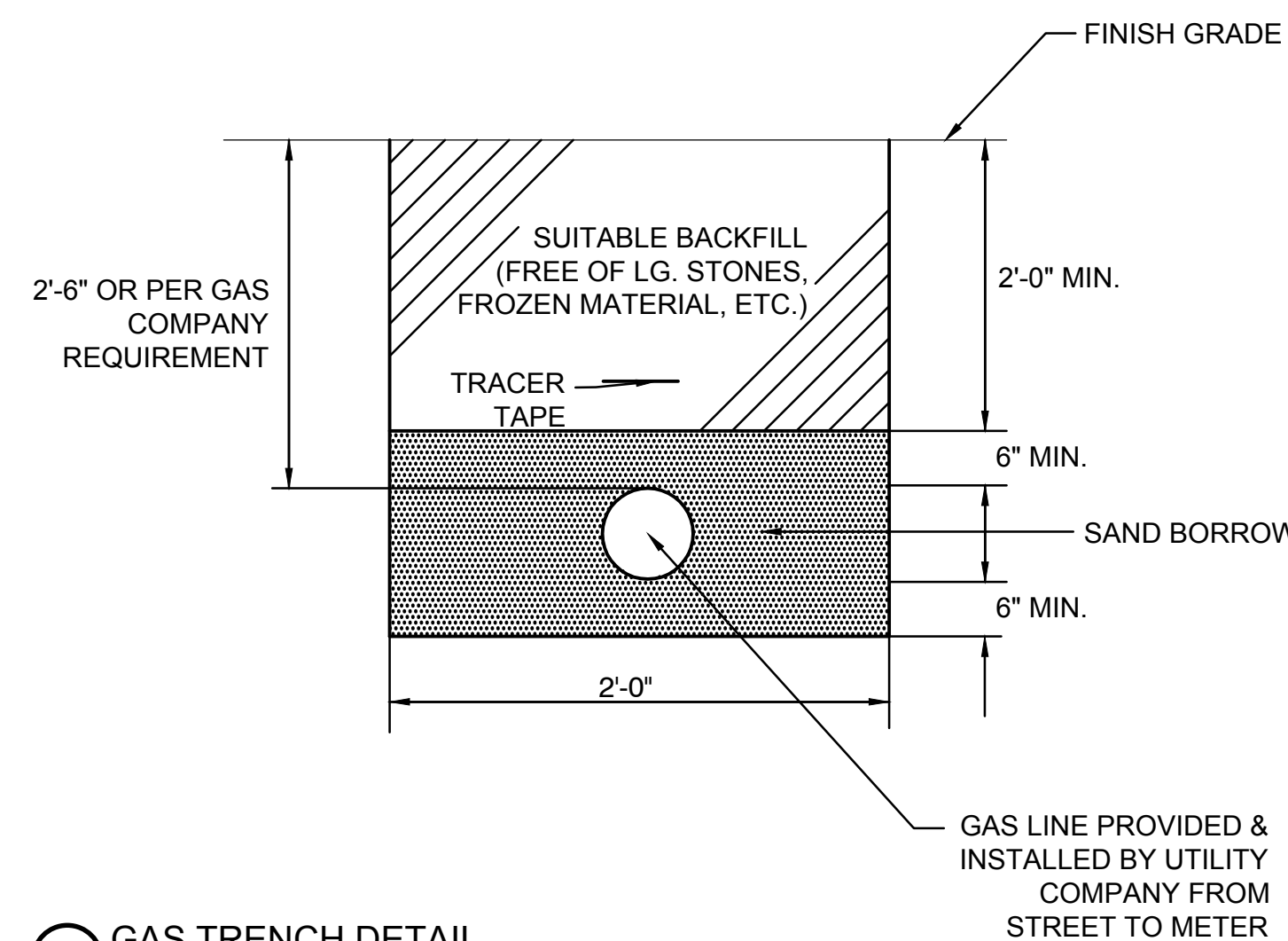
CONNECT TO 4" CAST IRON SERVICE LINE FROM BUILDING. REFER TO PLUMBERS DRAWINGS FOR LIMIT OF PLUMBING WORK. CONTRACTOR TO PROVIDE NECESSARY FITTINGS TO TRANSITION FROM CAST IRON TO PVC.



7 2,500 GALLON PRECAST SEPTIC TANK (TWO COMPARTMENT) DETAIL
SCALE: N.T.S.



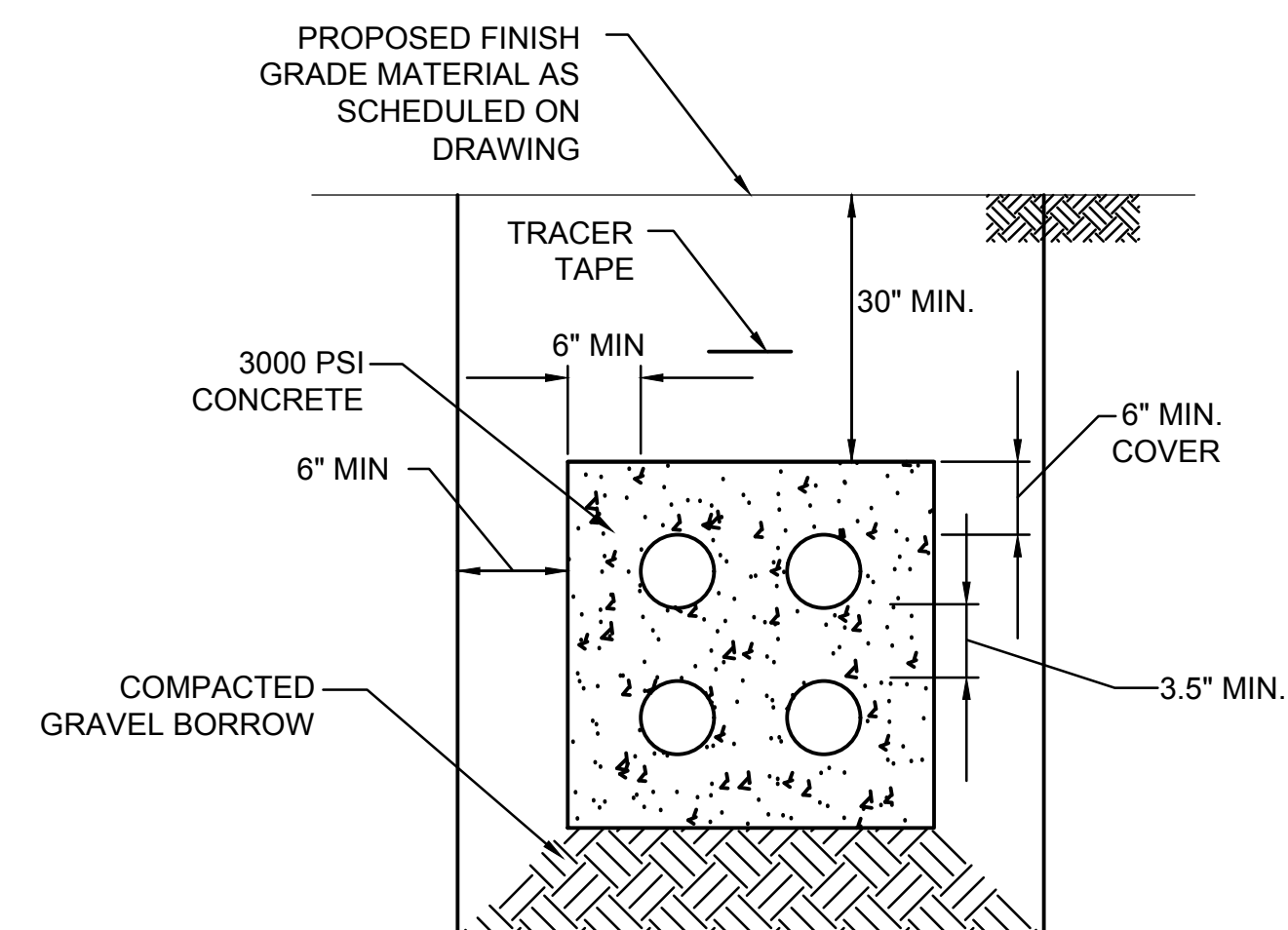
4 WATER MAIN TRENCH DETAIL
SCALE: N.T.S.



5 GAS TRENCH DETAIL
SCALE: N.T.S.

NOTES:

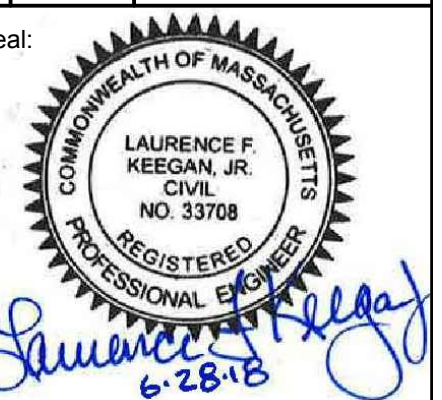
1. G.C. IS RESPONSIBLE FOR EXCAVATION, CONCRETE ENCASUREMENT, REINFORCEMENT AND BACKFILL. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING THE CONDUITS & SPACERS.
2. PROVIDE REINFORCEMENT PER LOCAL UTILITY COMPANY REQUIREMENTS.
3. QUANTITY & SIZE OF CONDUITS VARY. DUCTBANK SIZE SHALL BE ADJUSTED BASED ON CONDUIT TYPES & SIZES IDENTIFIED ON THE E-SERIES DRAWINGS.
4. CONTRACTOR SHALL COORDINATE DEPTH OF PROPOSED DUCTBANK WITH PROPOSED UTILITY & DRAINAGE SYSTEMS TO AVOID CONFLICTS.
5. BACKFILL AROUND DUCTBANK WITH GRAVEL BORROW BACKFILL MATERIAL.



3 ELECTRIC/COMMUNICATION DUCTBANK DETAIL
SCALE: N.T.S.

Revisions:

Rev	Date	Description

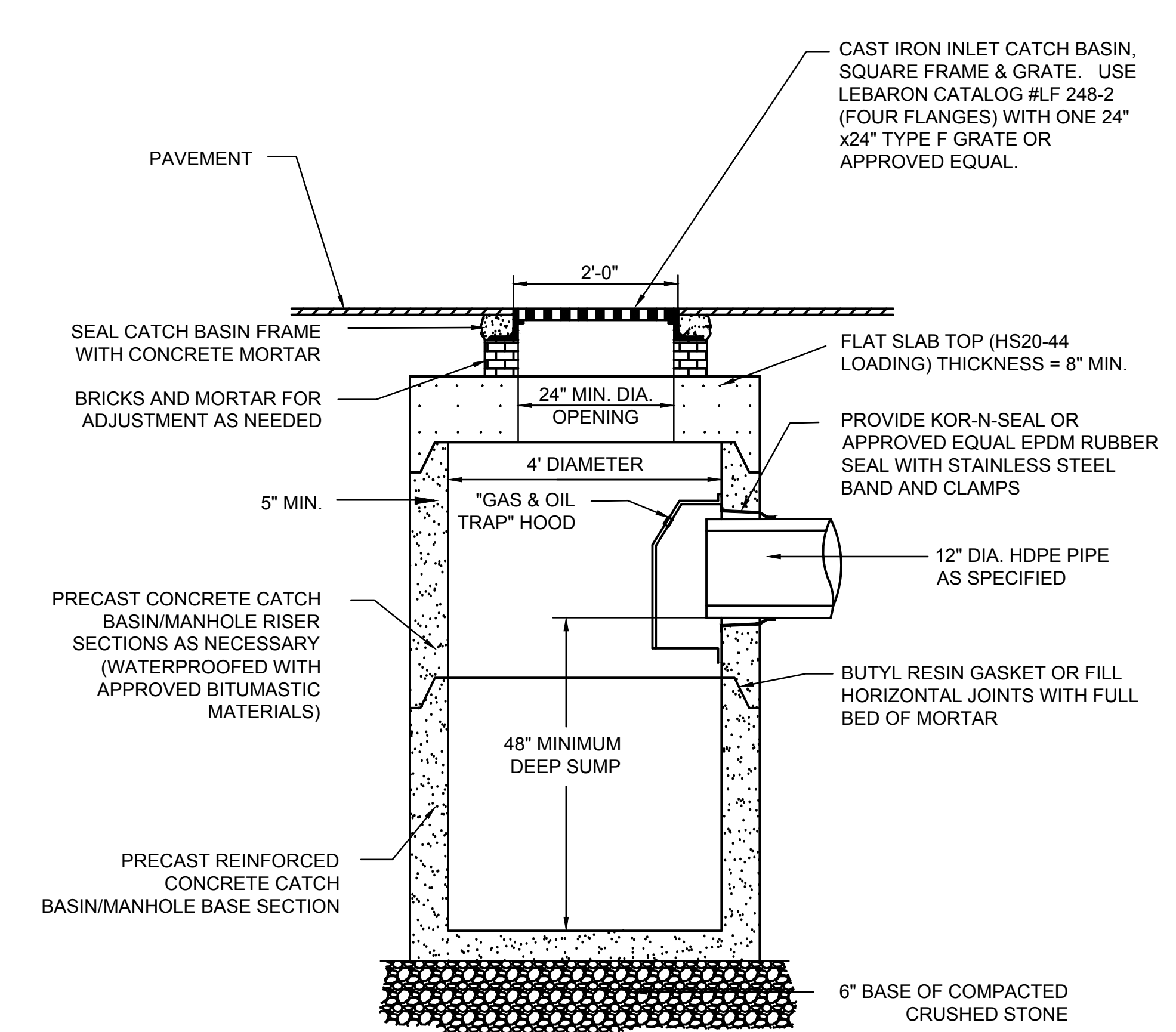
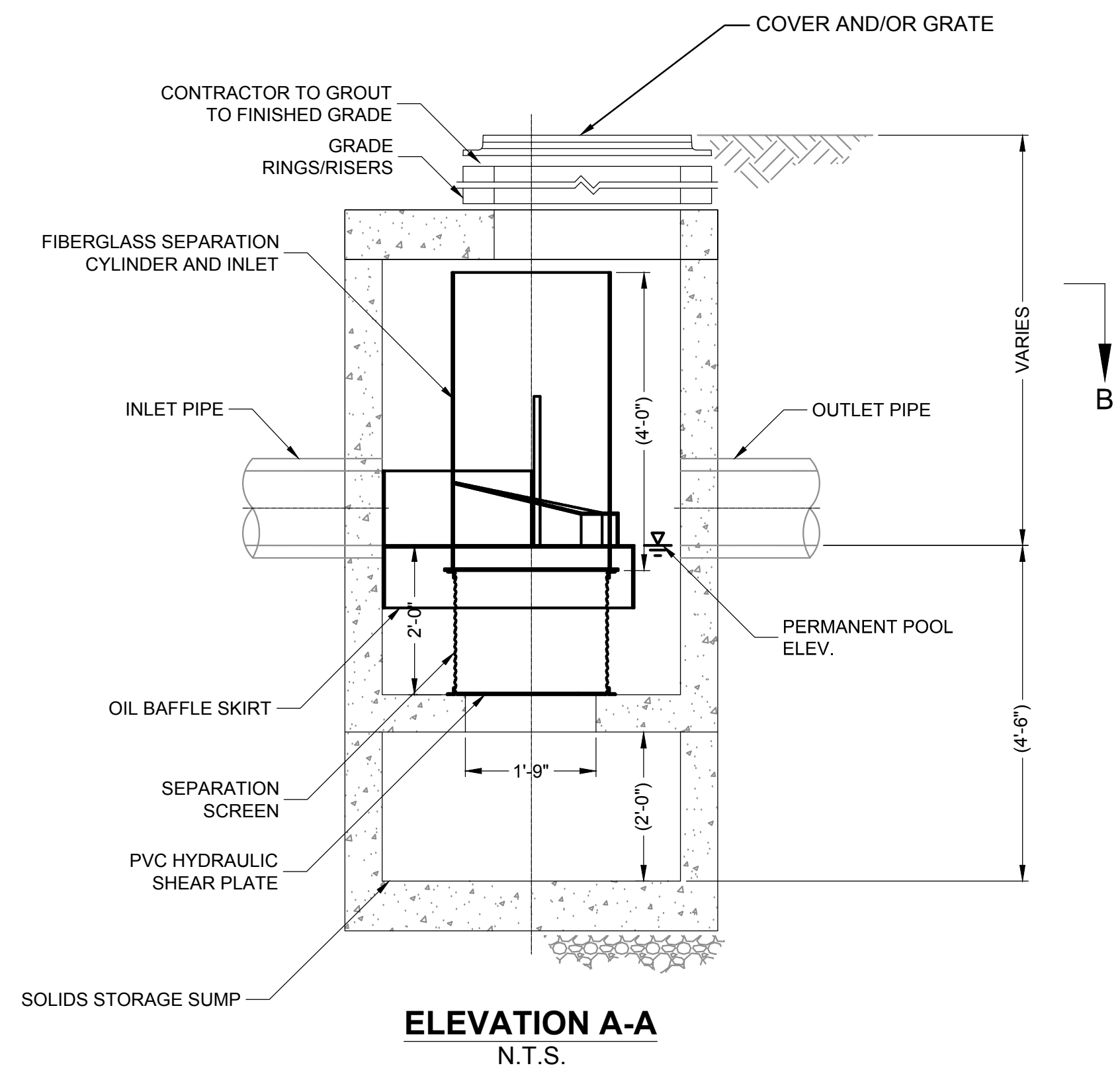
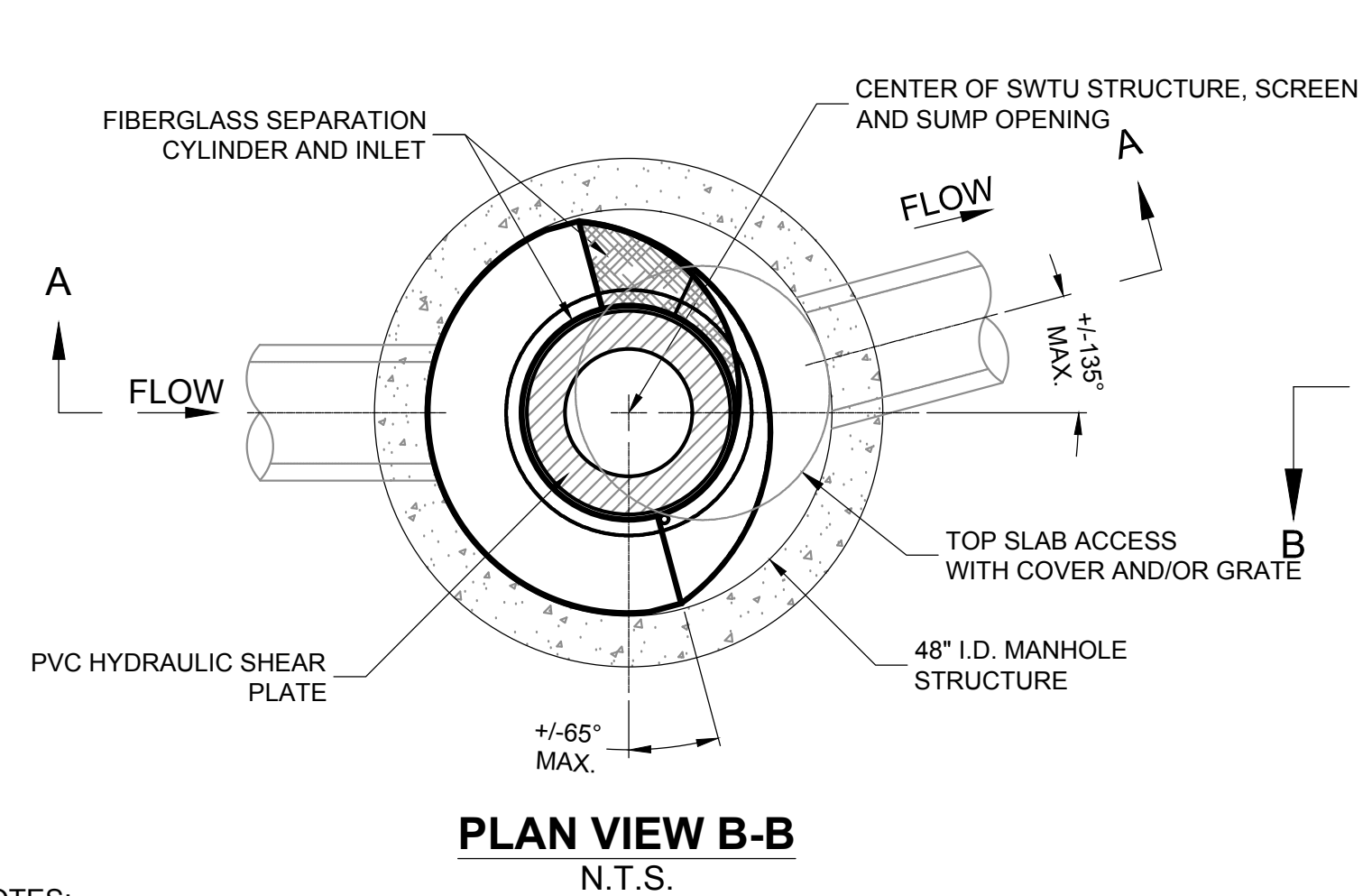


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Approved By: JJA

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DETAILS

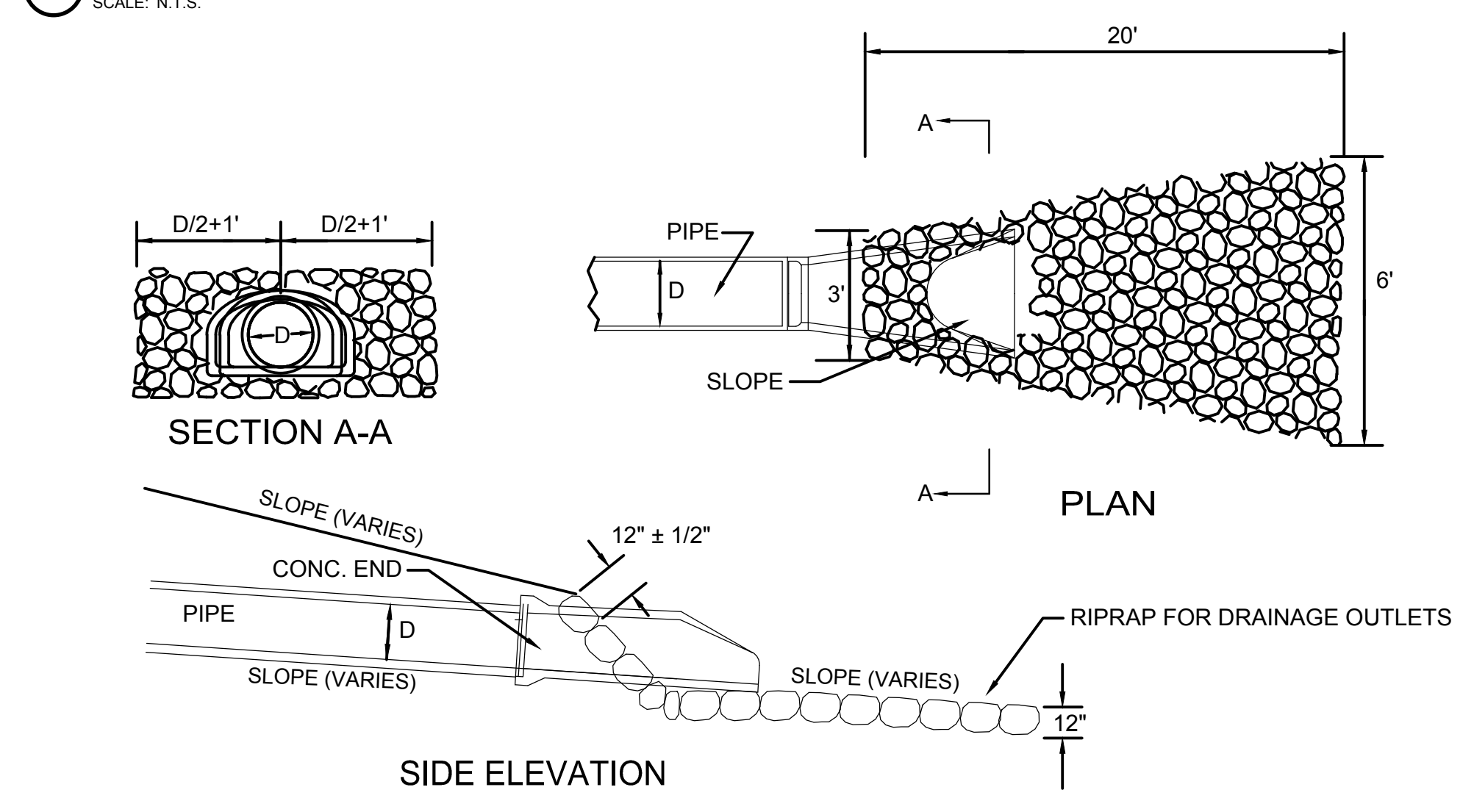
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C7.02



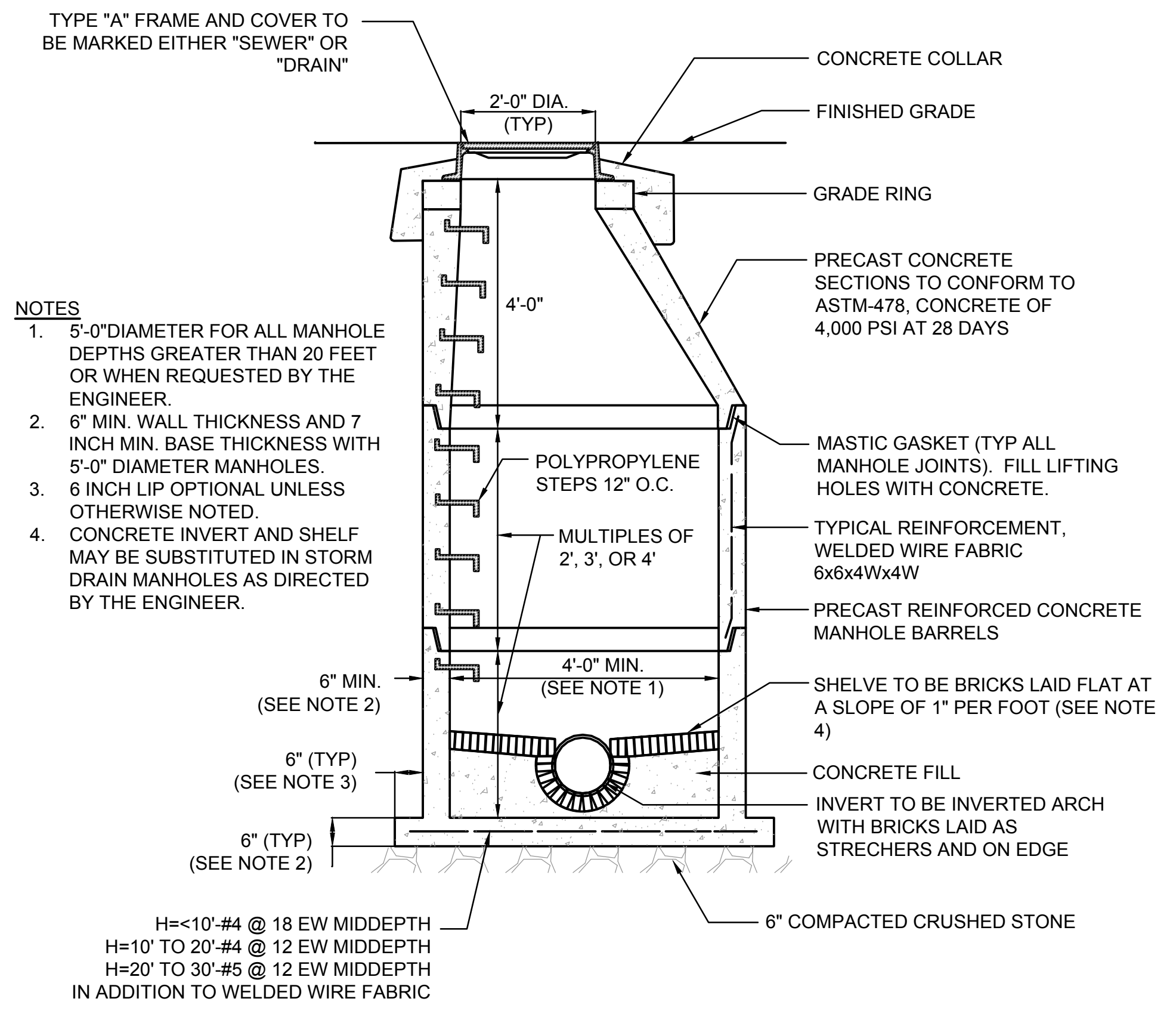
- NOTES:**
- DIMENSIONS MARKED WITH () ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
 - WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATE AND INFORMATION CONTAINED IN THE SPECIFICATIONS.
 - STRUCTURE SHALL MEET AASHTO HS20 AND CASTINGS SHALL MEET AASHTO M306 LOAD RATING.
 - CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE SWTU MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
 - CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
 - CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS BE GROUTED.
 - CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. SEE SHEET C6.01 FOR LOCATION, MATERIAL AND INVERT DATA.

1 STORMWATER TREATMENT UNIT (SWTU)
SCALE: N.T.S.

2 STANDARD CATCH BASIN
SCALE: N.T.S.

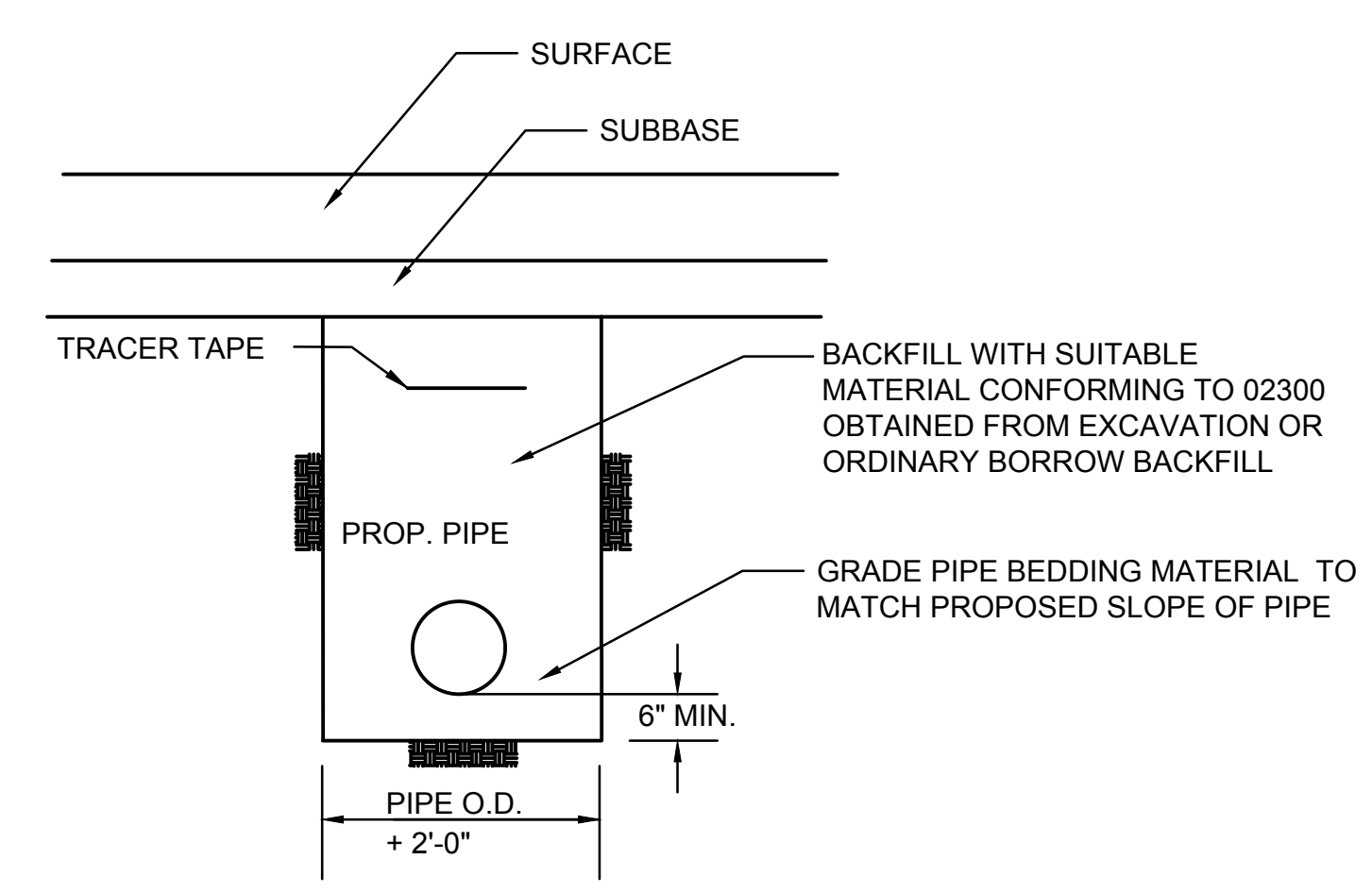


3 FLARED END PIPE DETAIL
SCALE: N.T.S.



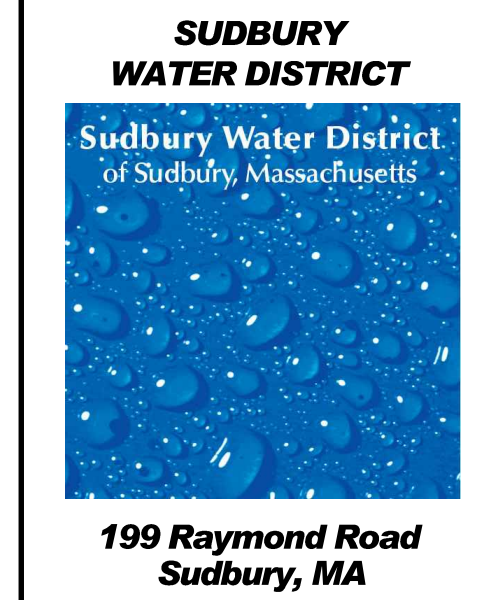
- NOTES**
- 5'-0" DIAMETER FOR ALL MANHOLE DEPTHS GREATER THAN 20 FEET OR WHEN REQUESTED BY THE ENGINEER.
 - 6" MIN. WALL THICKNESS AND 7 INCH MIN. BASE THICKNESS WITH 5'-0" DIAMETER MANHOLES.
 - 6 INCH LIP OPTIONAL UNLESS OTHERWISE NOTED.
 - CONCRETE INVERT AND SHELF MAY BE SUBSTITUTED IN STORM DRAIN MANHOLES AS DIRECTED BY THE ENGINEER.
- H=<10' #4 @ 18 EW MIDDEPTH
H=10' TO 20' #4 @ 12 EW MIDDEPTH
H=20' TO 30' #5 @ 12 EW MIDDEPTH
IN ADDITION TO WELDED WIRE FABRIC

4 PRECAST CONCRETE MANHOLE
SCALE: N.T.S.



5 DRAINAGE TRENCH DETAIL
SCALE: N.T.S.

NOTE: FOR DOUBLE CATCH BASINS, STRUCTURE SHALL BE 6' IN DIAMETER.



Revisions:

Rev	Date	Description

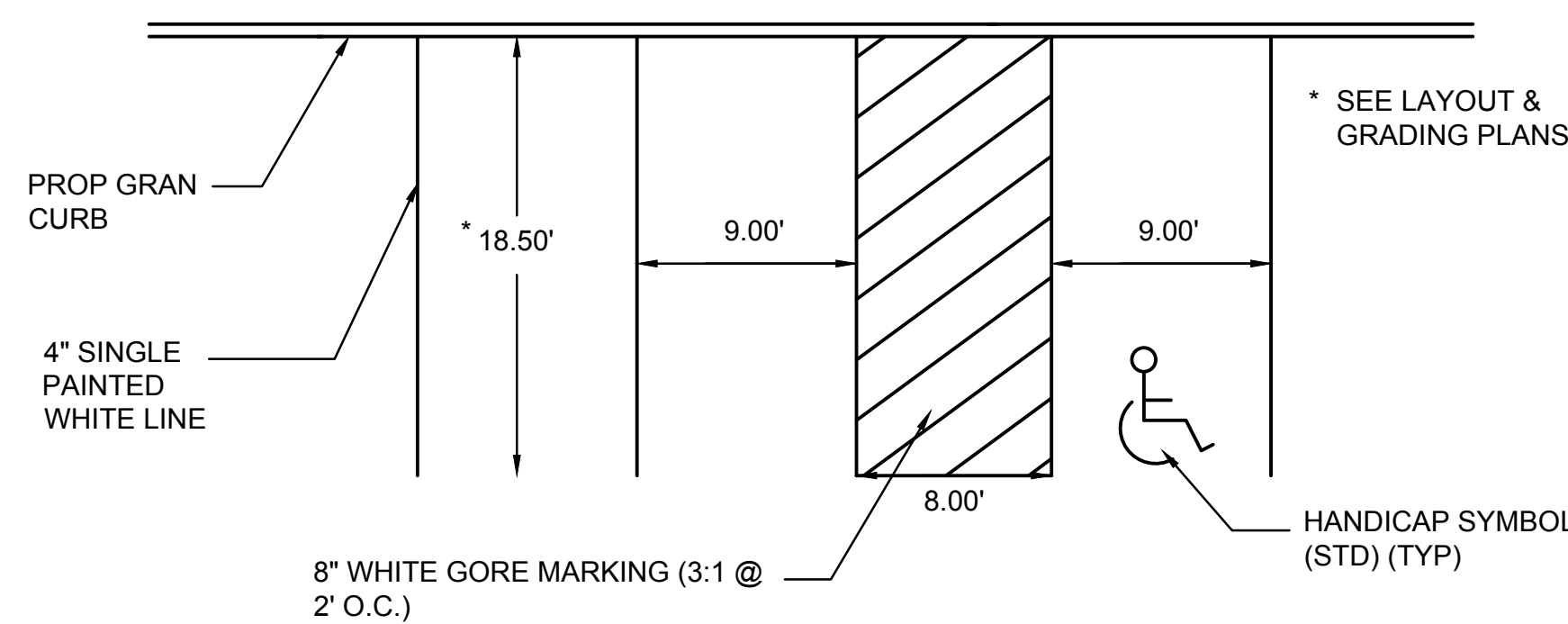


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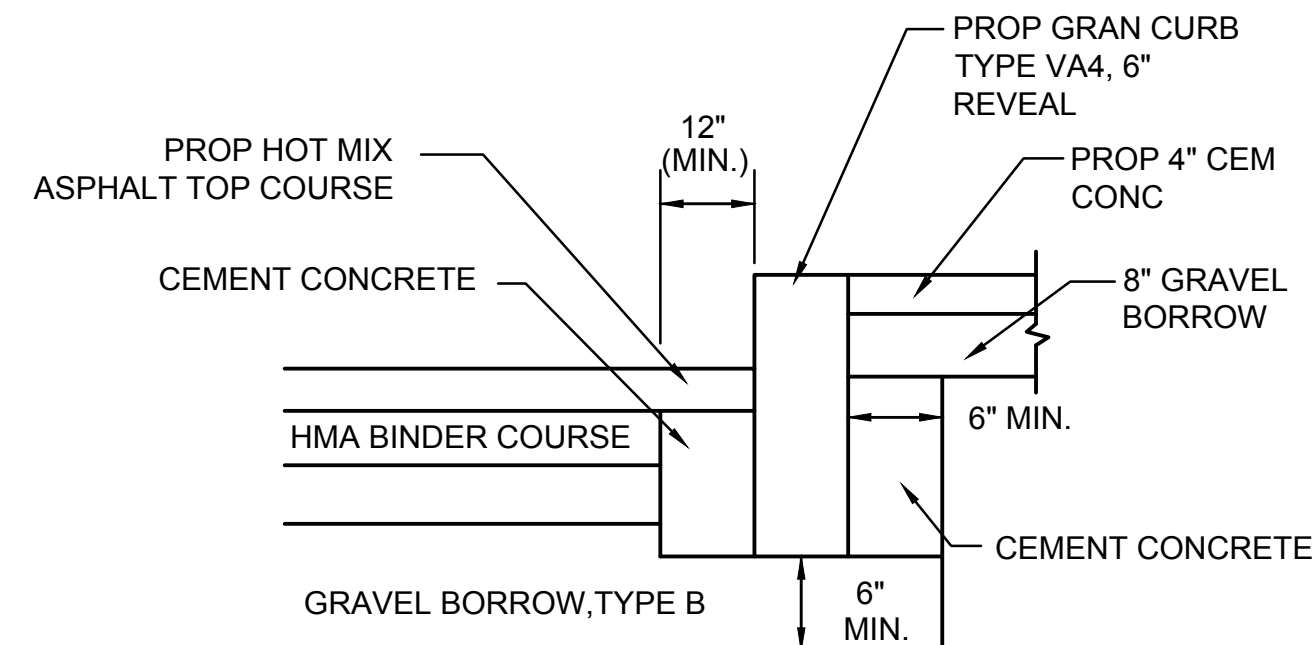
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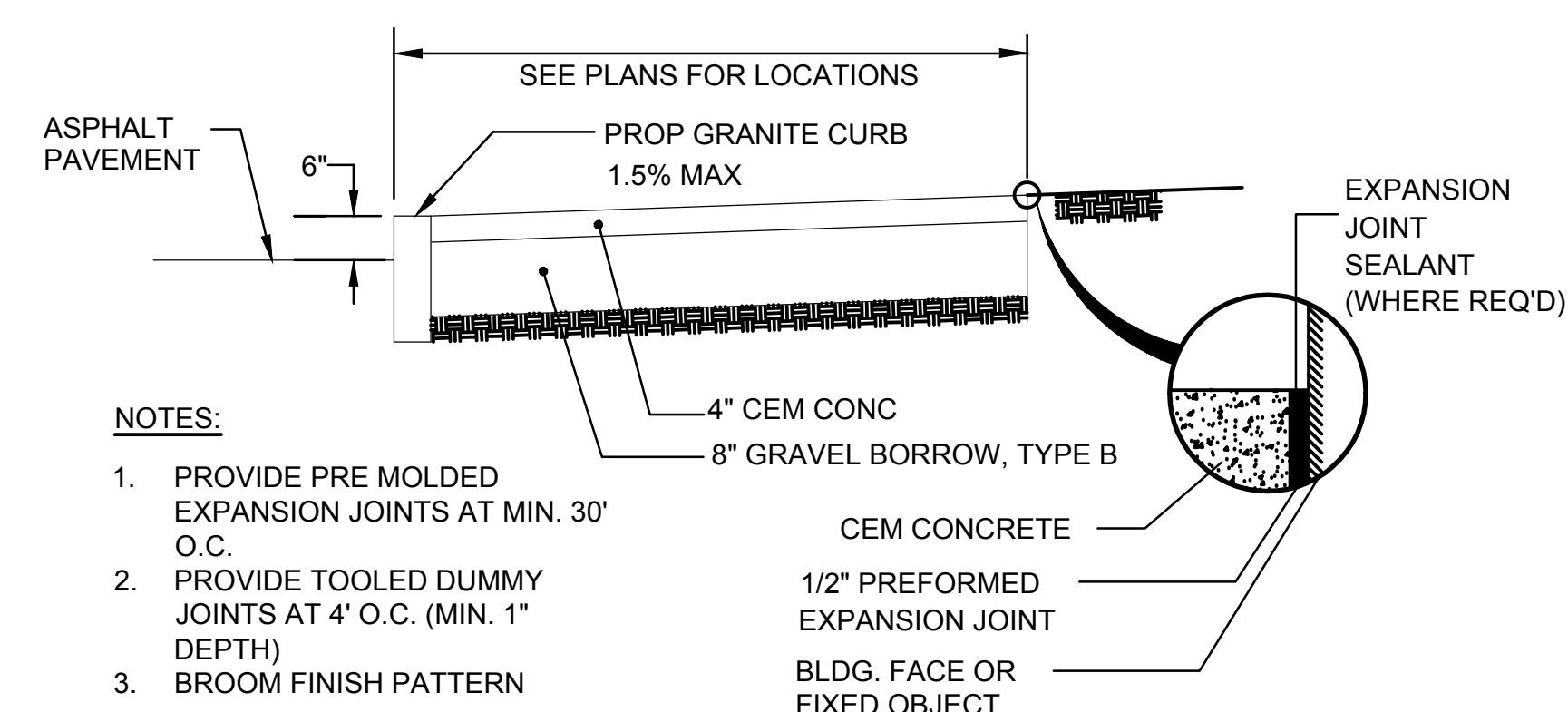
Sheet Number: C7.03



1 PARKING STALLS AND SYMBOLS
SCALE: N.T.S.



2 CURB INSTALLATION IN FULL DEPTH PAVEMENT
SCALE: N.T.S.



3 CEMENT CONCRETE WALK
SCALE: N.T.S.

PAVEMENT NOTES

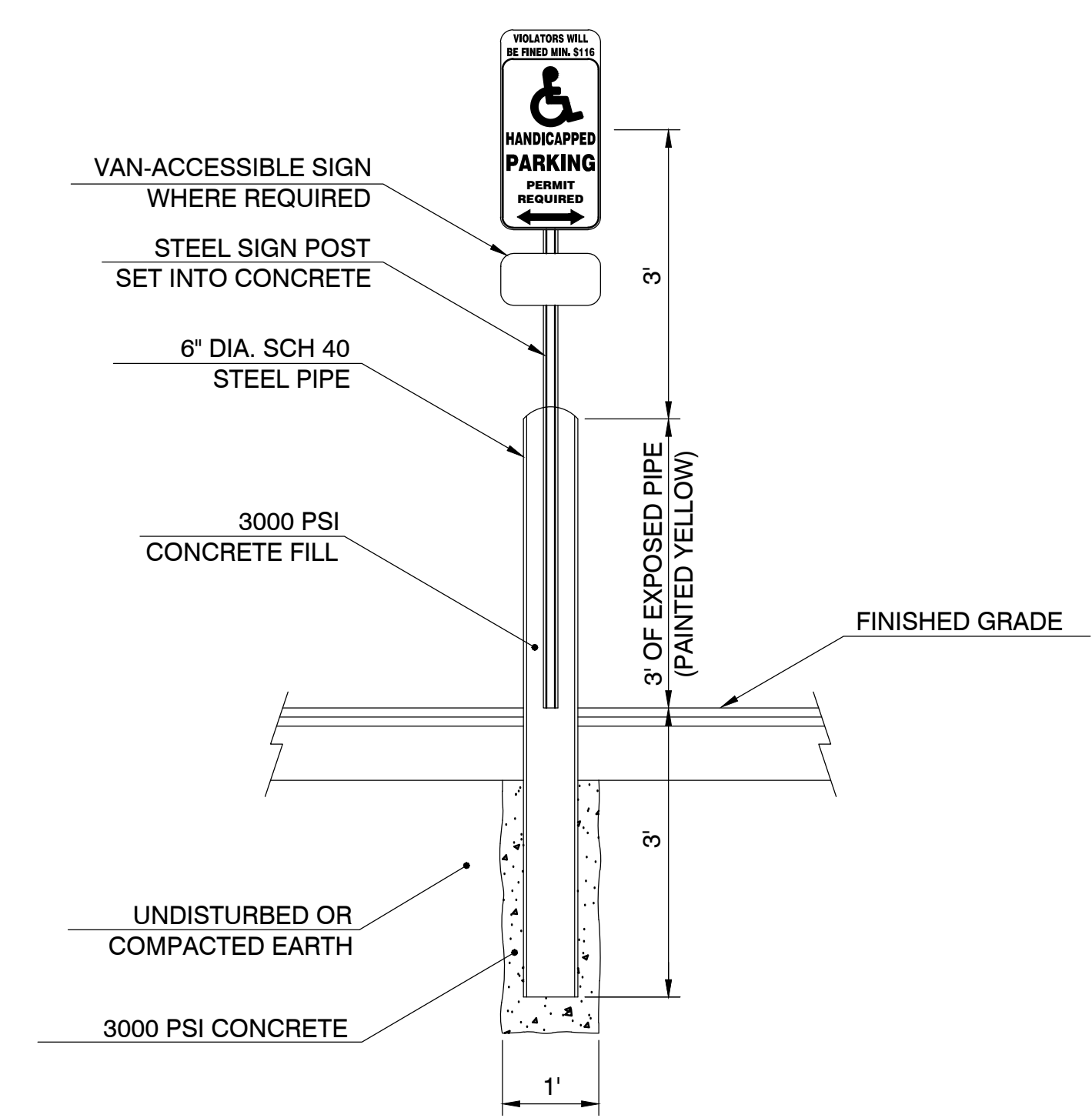
PROPOSED FULL DEPTH PAVEMENT:

SURFACE: 4\"/>

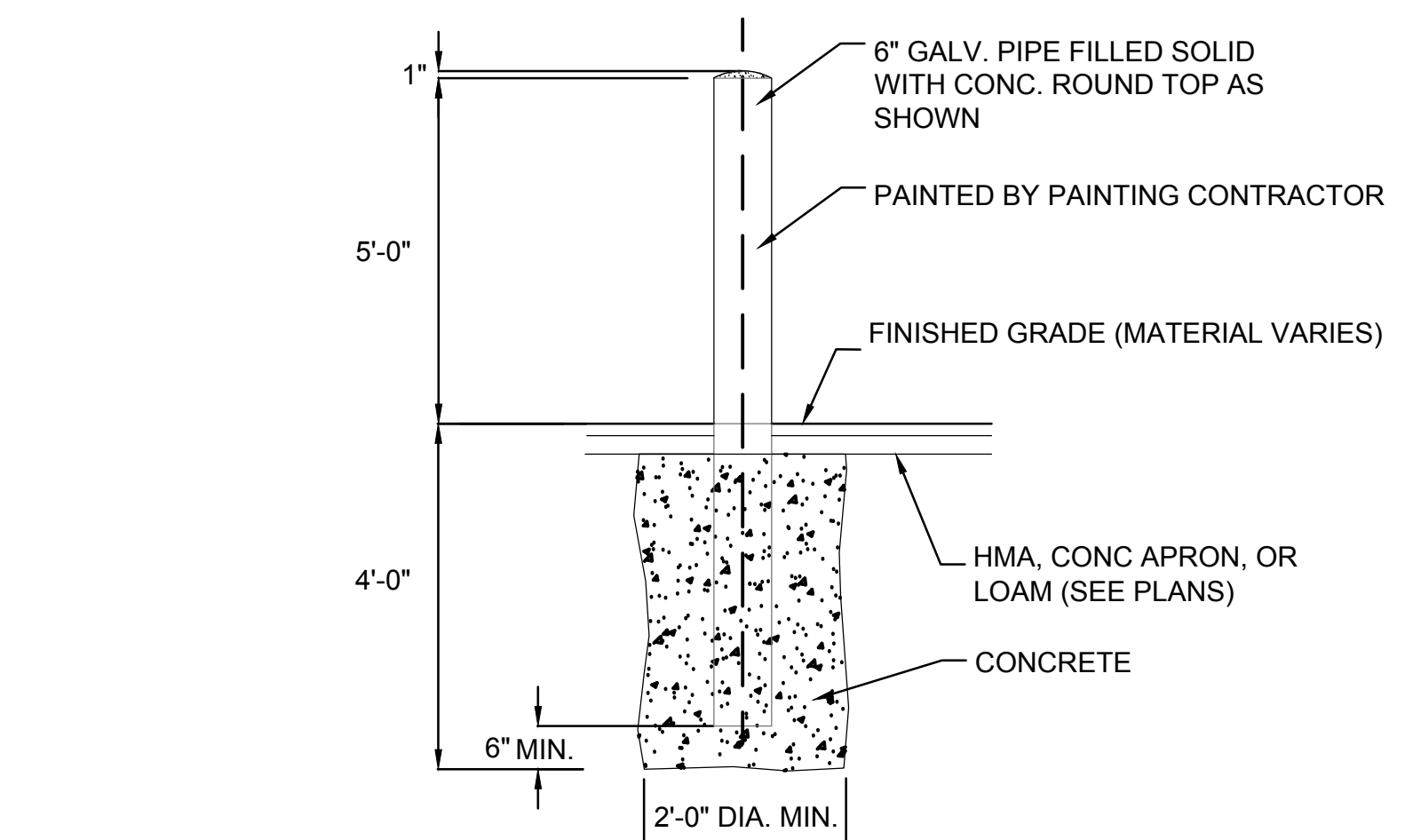
SUBBASE: 4\"/>

PROPOSED CEMENT CONCRETE WALK:

SURFACE: 4\"/>



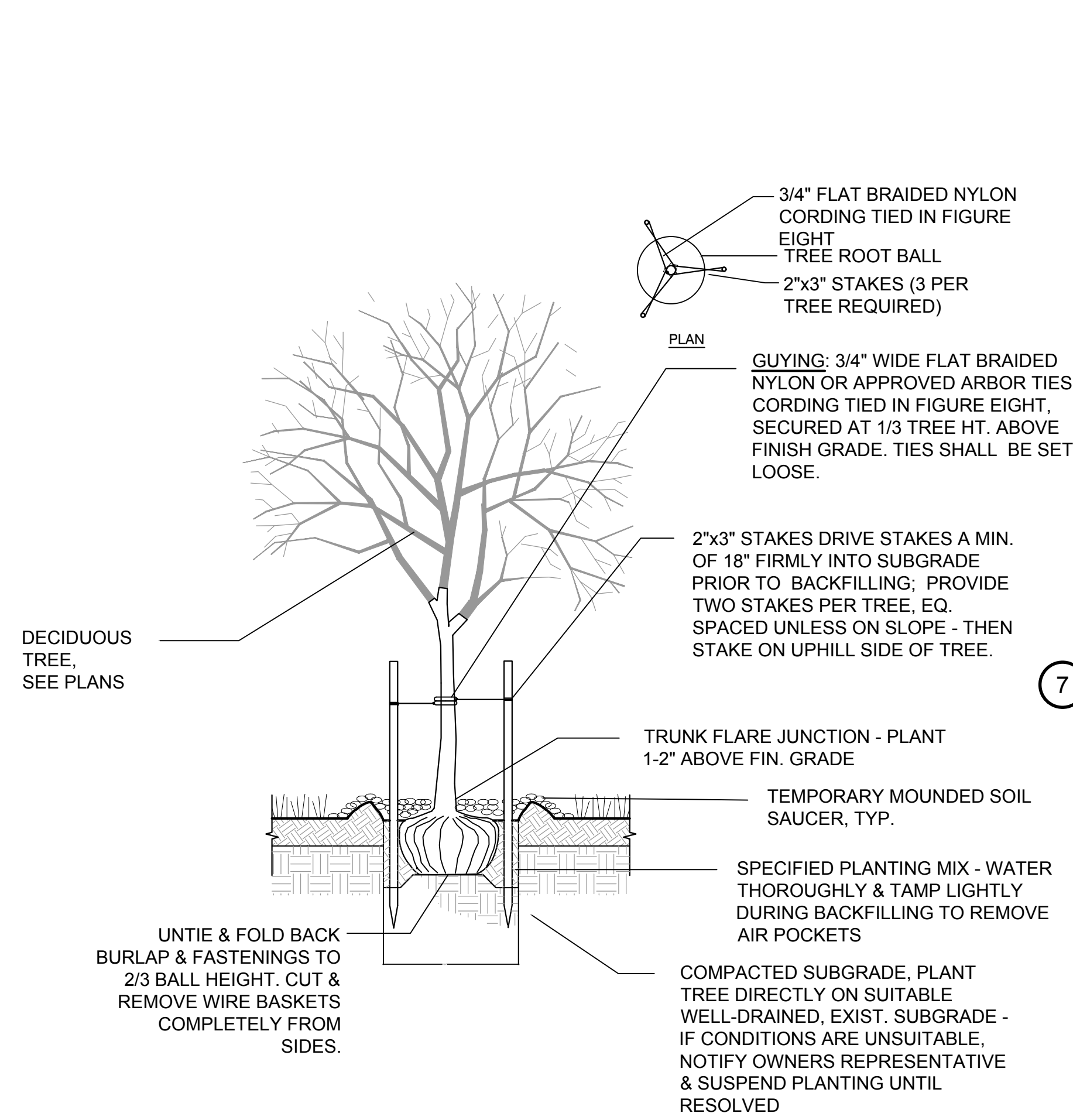
4 ACCESSIBLE SIGN AND POST DETAIL
SCALE: N.T.S.



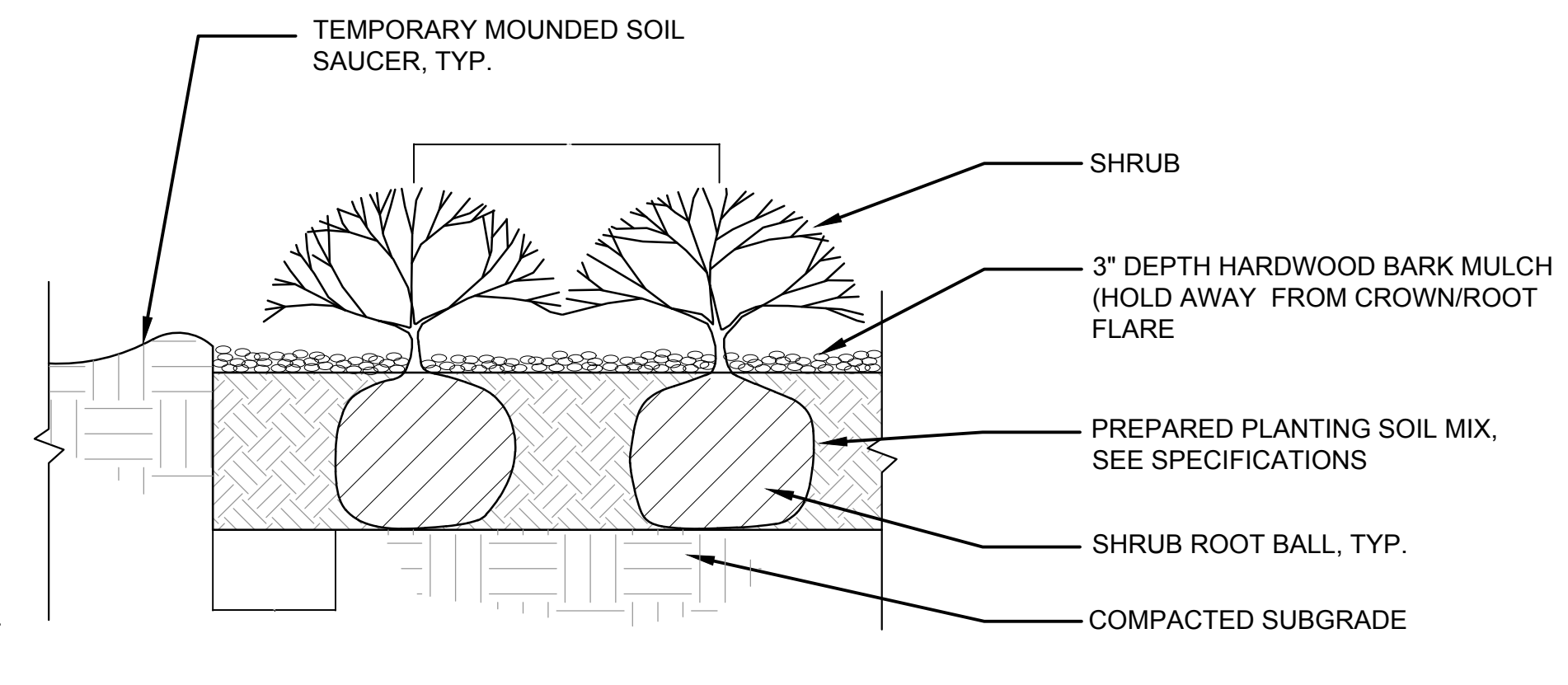
NOTES:

- SEE C3.01 FOR BOLLARD LOCATIONS.
- BOLLARD FOUNDATION CONCRETE TO BE 3000 PSI MIN.
- EXACT LOCATION TO BE DETERMINED IN THE FIELD AND APPROVED BY TOWN BEFORE INSTALLATION.
- 6\"/>

5 STEEL PIPE BOLLARD
SCALE: N.T.S.



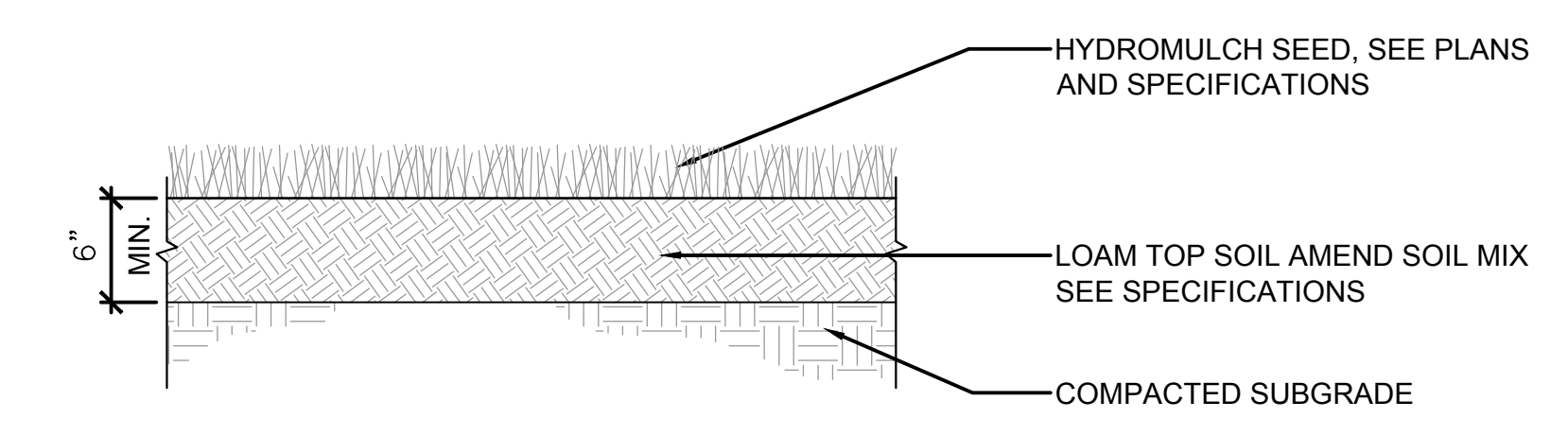
6 TREE STAKING AND PLANTING
SCALE: N.T.S.



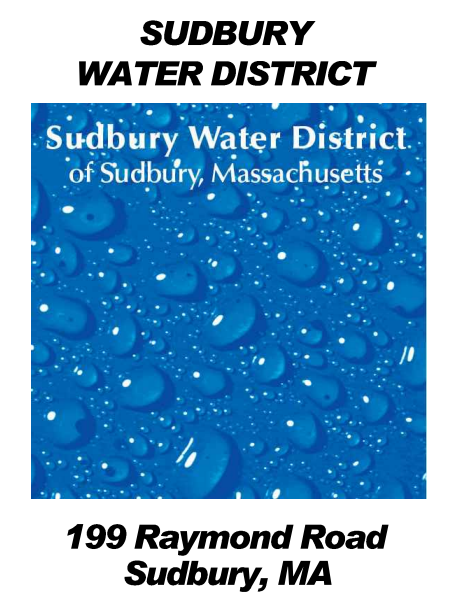
NOTES:

- ALL MULCH MUST BE DARK IN COLOR. PROVIDE SAMPLE PRIOR TO INSTALLATION TO BE APPROVED BY OWNER'S REPRESENTATIVE.

7 SHRUB PLANTING
SCALE: N.T.S.



8 LOAM AND SEED
SCALE: N.T.S.



Revisions:

Rev	Date	Description

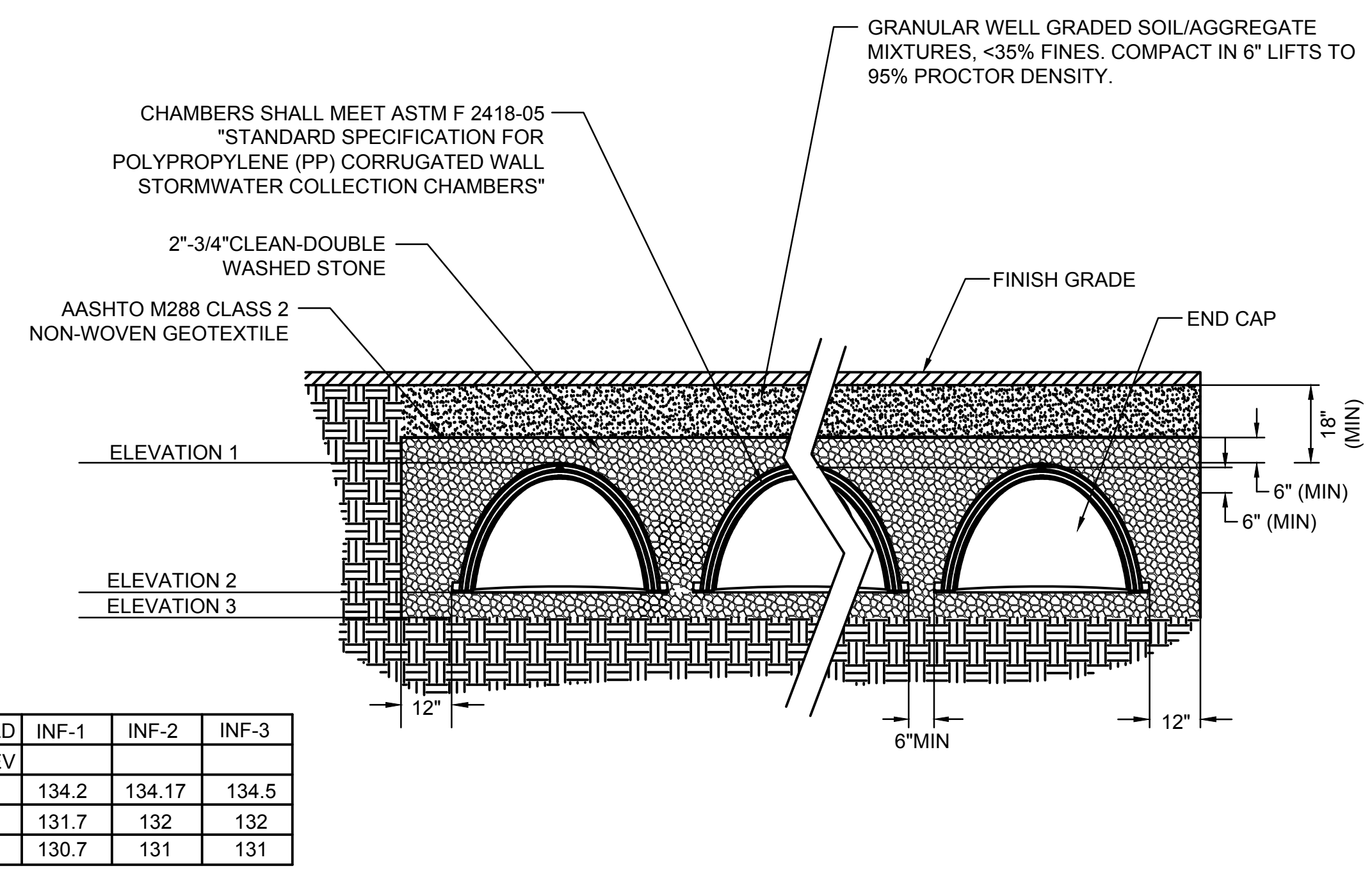


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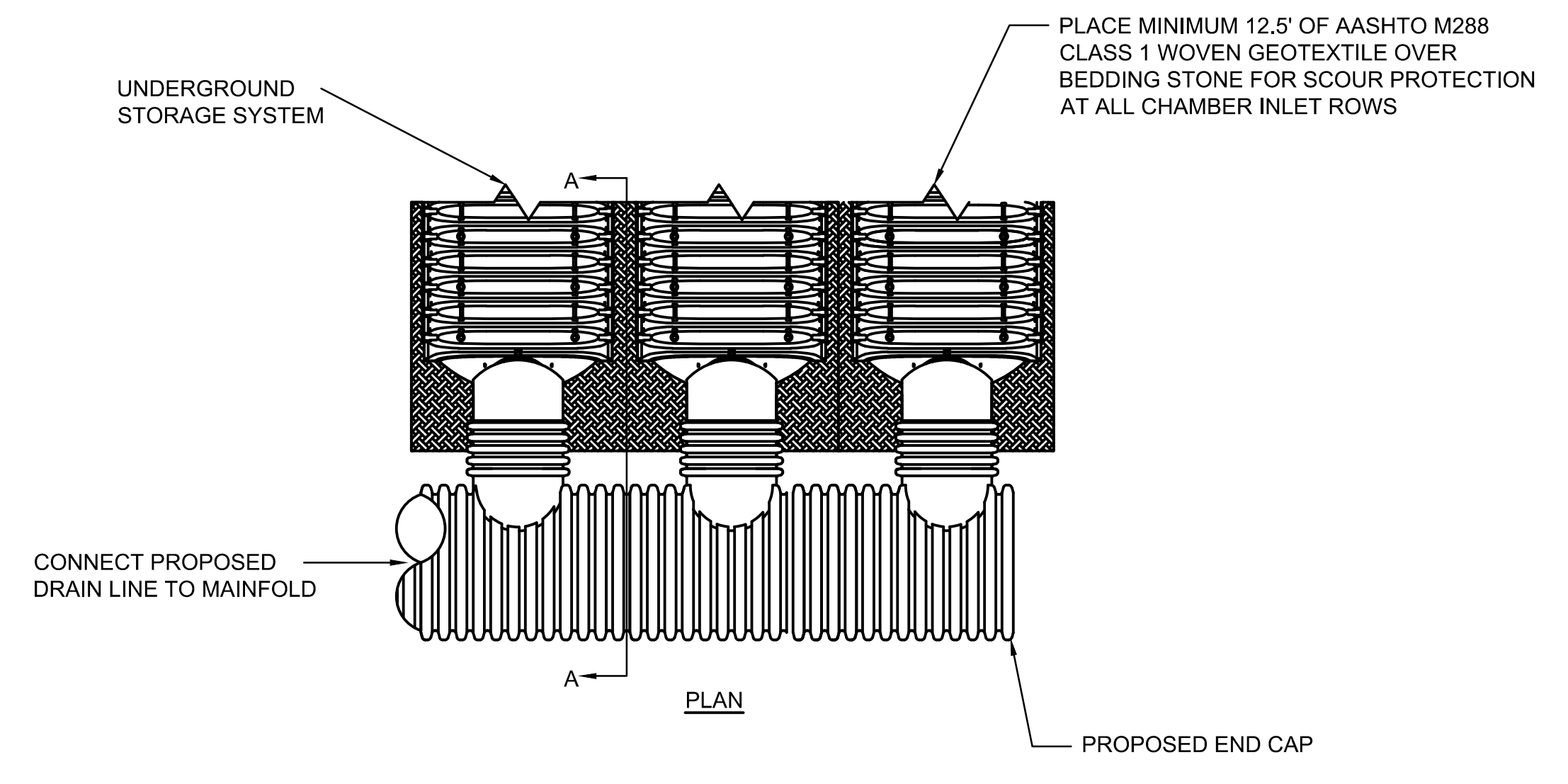
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Drawing Title: **DETAILS**

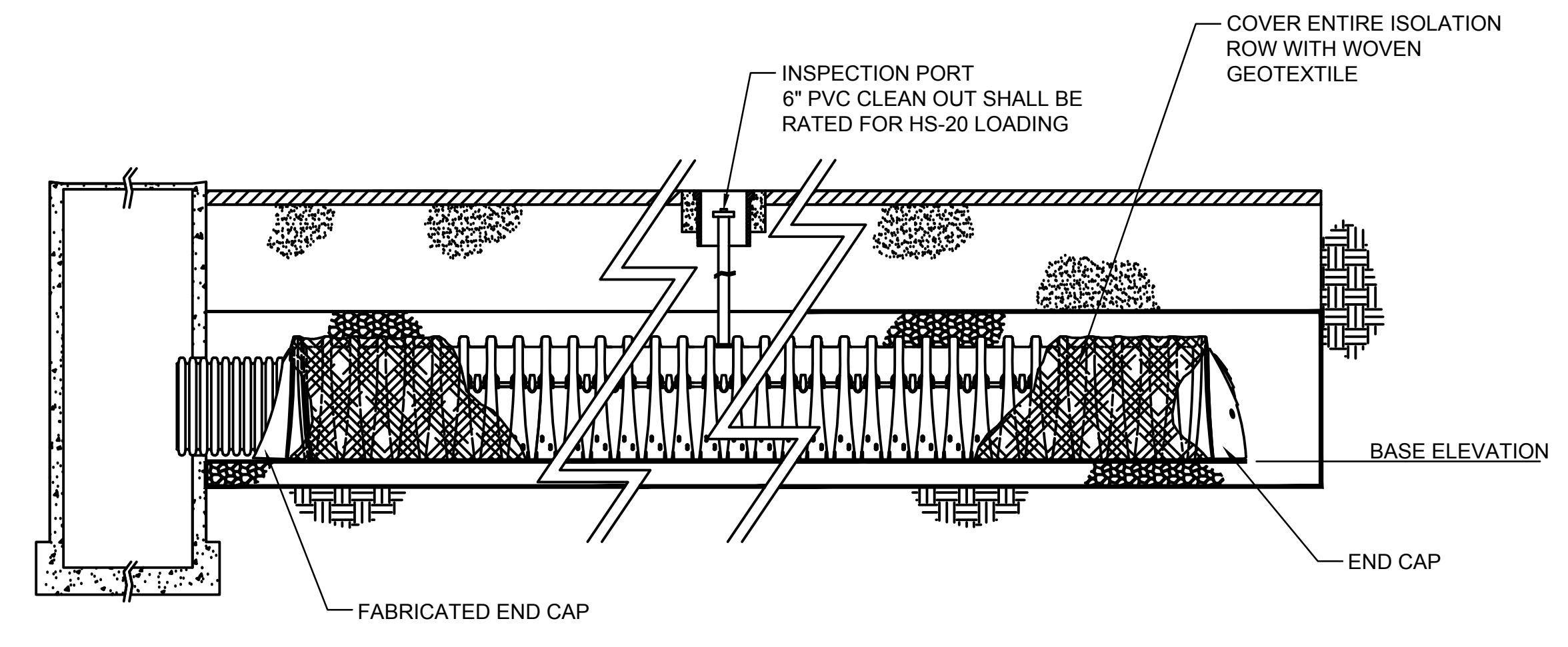
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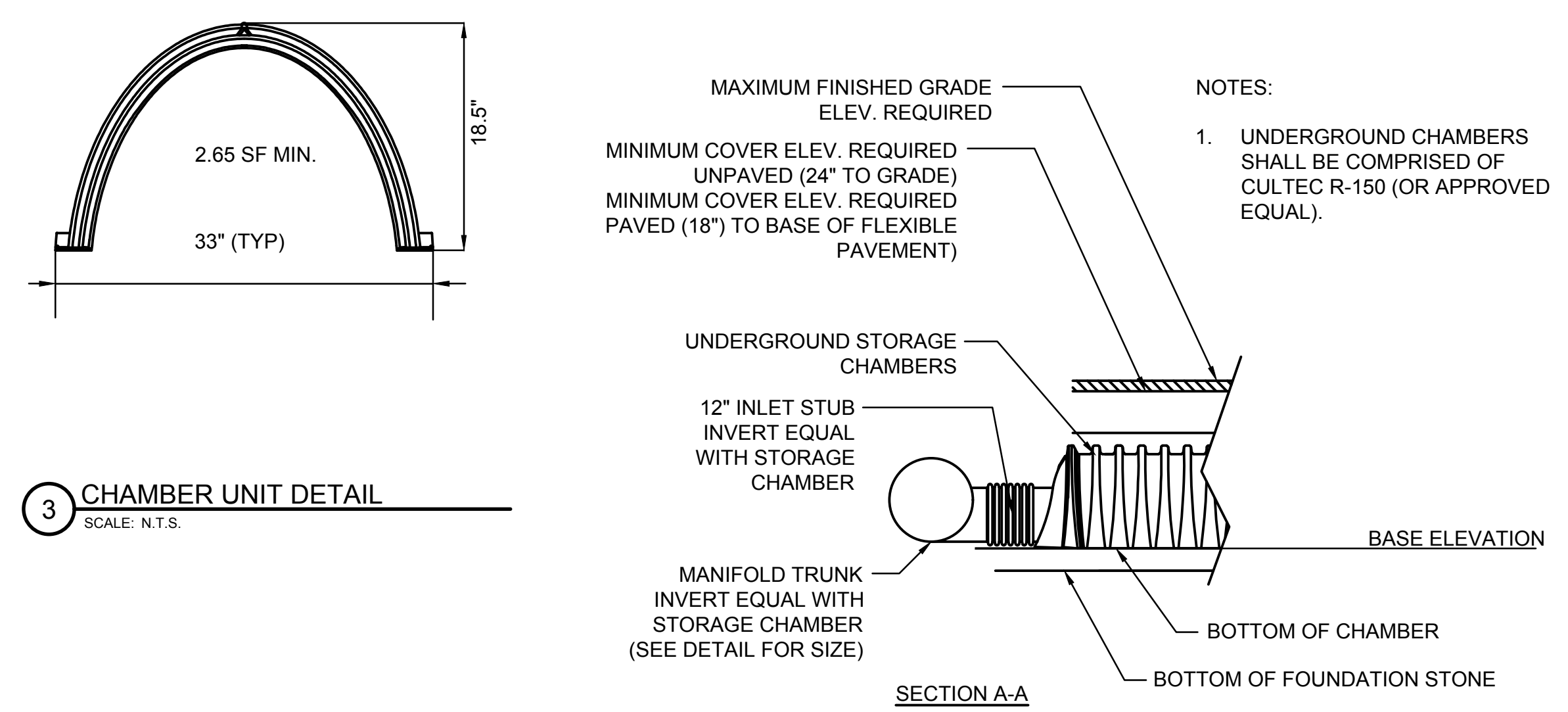
1 INFILTRATION/RECHARGE CHAMBER - SECTION
 SCALE: N.T.S.



5 INFILTRATION/RECHARGE CHAMBER - MANIFOLD CONNECTION
 SCALE: N.T.S.

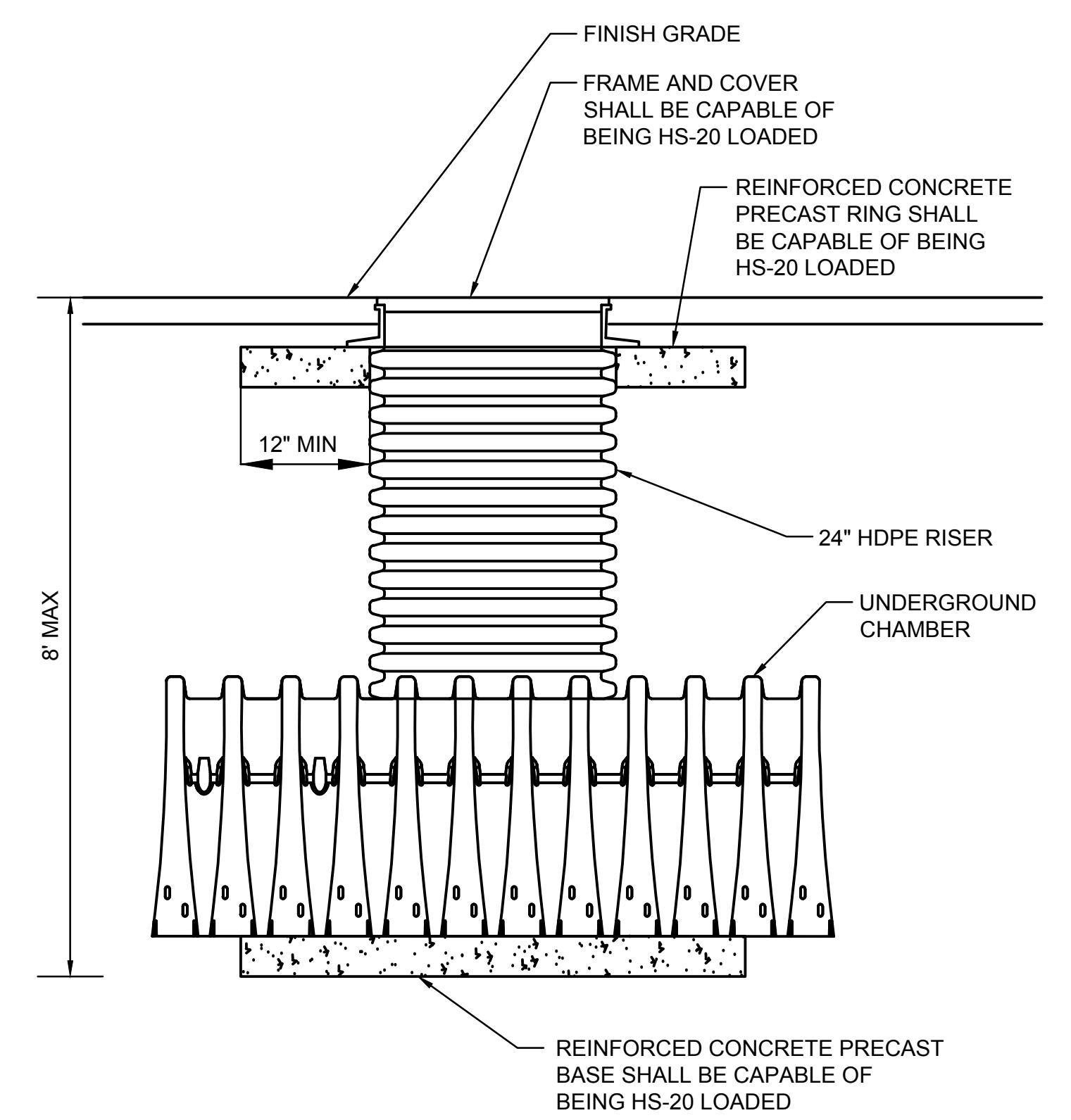


2 INFILTRATION/RECHARGE CHAMBER - PROFILE
 SCALE: N.T.S.



3 CHAMBER UNIT DETAIL
 SCALE: N.T.S.

4 UNDERGROUND INFILTRATION / RECHARGE CHAMBER
 SCALE: N.T.S.



6 INFILTRATION/RECHARGE CHAMBER - 24" HDPE CLEAN OUT WITH CONCRETE COLLAR
 SCALE: N.T.S.

Revisions:

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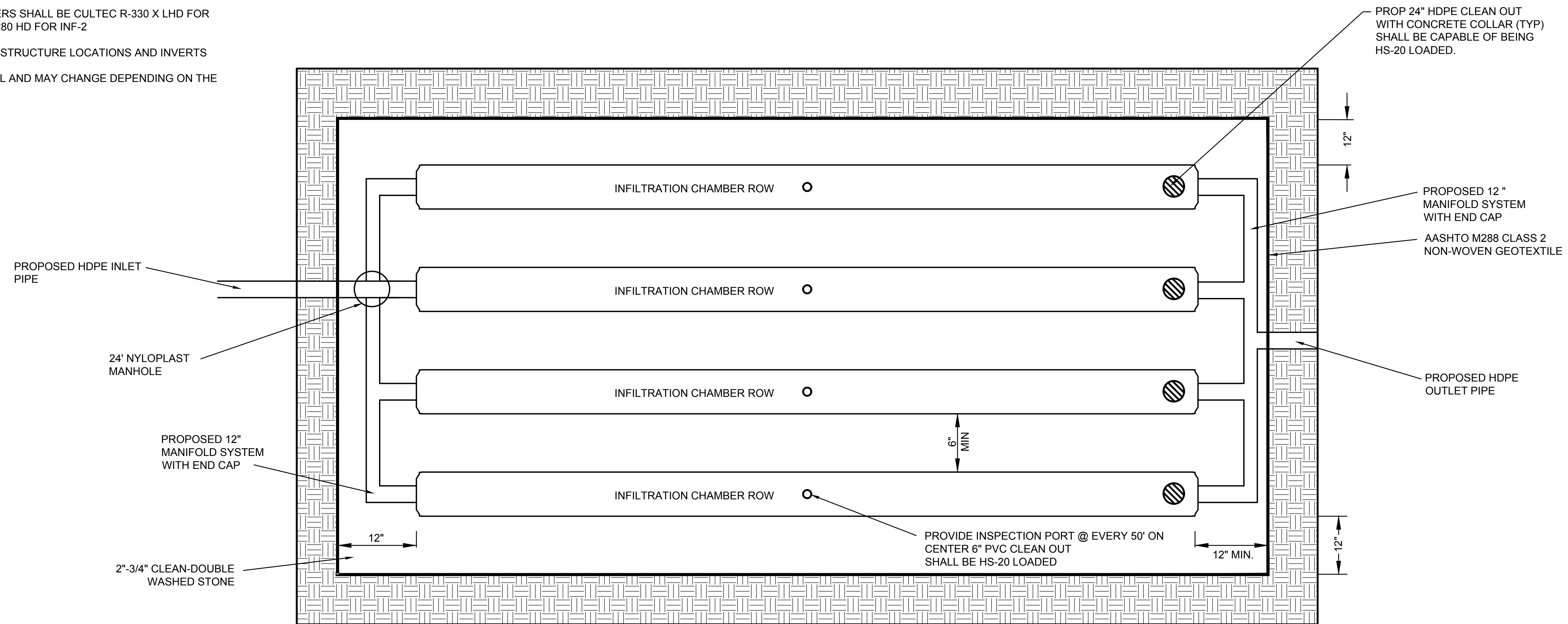
Checked By: JJA

Approved By: JJA

STORAGE SYSTEM FIELD	FIELD DIMENSIONS	REQUIRED CHAMBER QUANTITY	INLET STRUCTURE BAFFLE WALL ELEVATION	OUTLET PIPE INVERT
INF1	A1 = 25.67 X 66.50 A2 = 16.00 X 31.50	48	132.2	132.2
INF-2	14.75 X 52	21	131.1	130.0
INF-3	A1 = 6.33 X 28 A2 = 6.33 X 112	20	133.1	133.0

NOTE:

- 1) INFILTRATION CHAMBERS SHALL BE CULTEC R-330 X LHD FOR INF-1, AND CULTEC R-280 HD FOR INF-2
- 2) SEE SHEET C5.01 FOR STRUCTURE LOCATIONS AND INVERTS
- 3) THIS DETAIL IS TYPICAL AND MAY CHANGE DEPENDING ON THE PROPOSED FIELD.



1 UNDERGROUND INFILTRATION/RECHARGE CHAMBER DETAIL (FIELDS INF-1, INF-2, AND INF-3)
SCALE: N.T.S.

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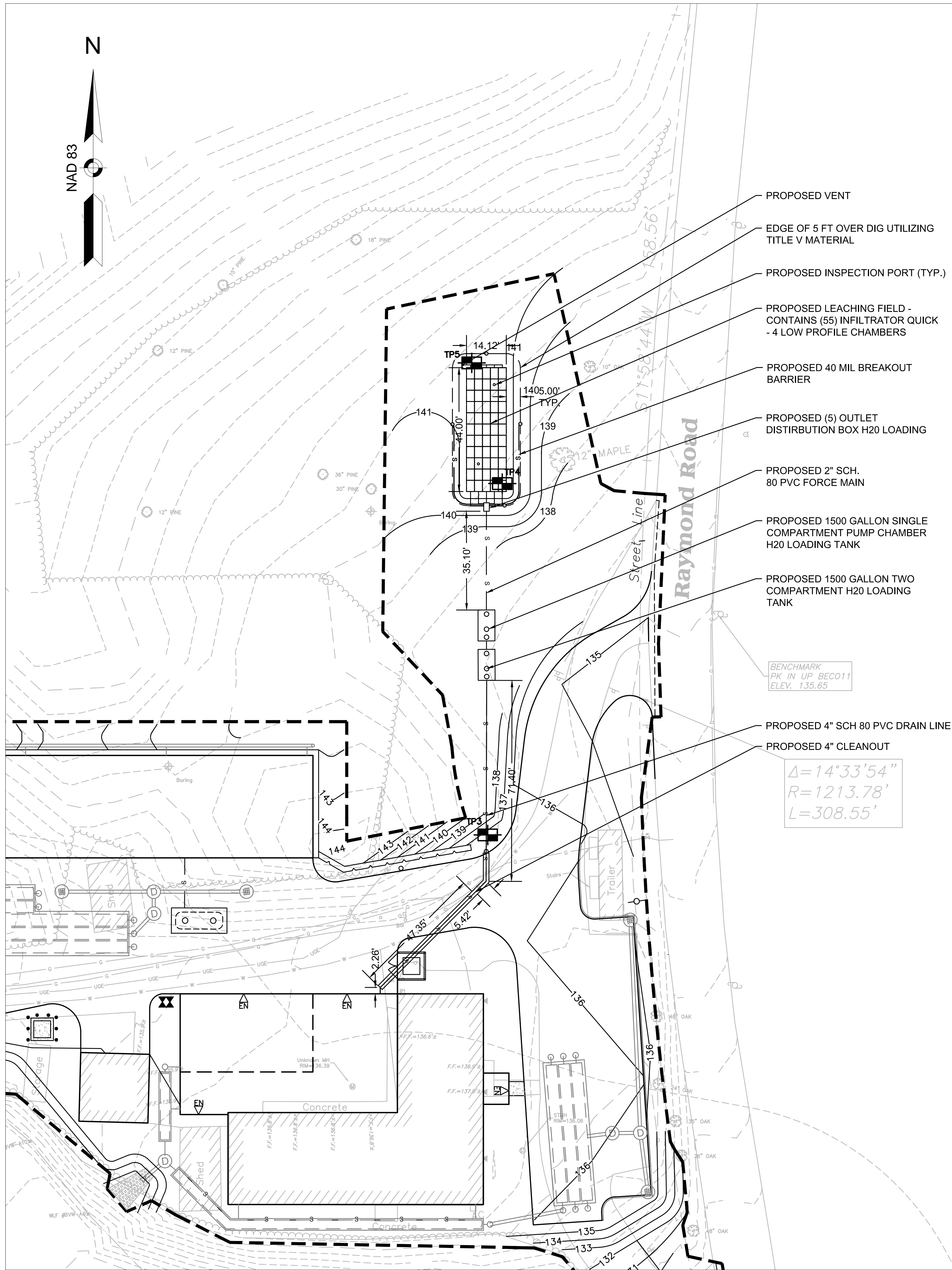
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DETAILS

Sheet Number:
C7.06

NAD 83

N



- PROPOSED VENT
- EDGE OF 5 FT OVER DIG UTILIZING TITLE V MATERIAL
- PROPOSED INSPECTION PORT (TYP.)
- PROPOSED LEACHING FIELD - CONTAINS (55) INFILTRATOR QUICK - 4 LOW PROFILE CHAMBERS
- PROPOSED 40 MIL BREAKOUT BARRIER
- PROPOSED (5) OUTLET DISTRIBUTION BOX H2O LOADING
- PROPOSED 2" SCH. 80 PVC FORCE MAIN
- PROPOSED 1500 GALLON SINGLE COMPARTMENT PUMP CHAMBER H2O LOADING TANK
- PROPOSED 1500 GALLON TWO COMPARTMENT H2O LOADING TANK
- PROPOSED 4" SCH 80 PVC DRAIN LINE
- PROPOSED 4" CLEANOUT

BENCHMARK
PK IN UP BEC011
ELEV. 135.65

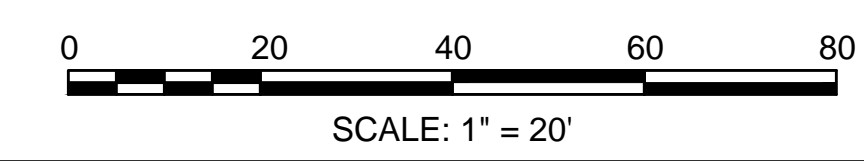
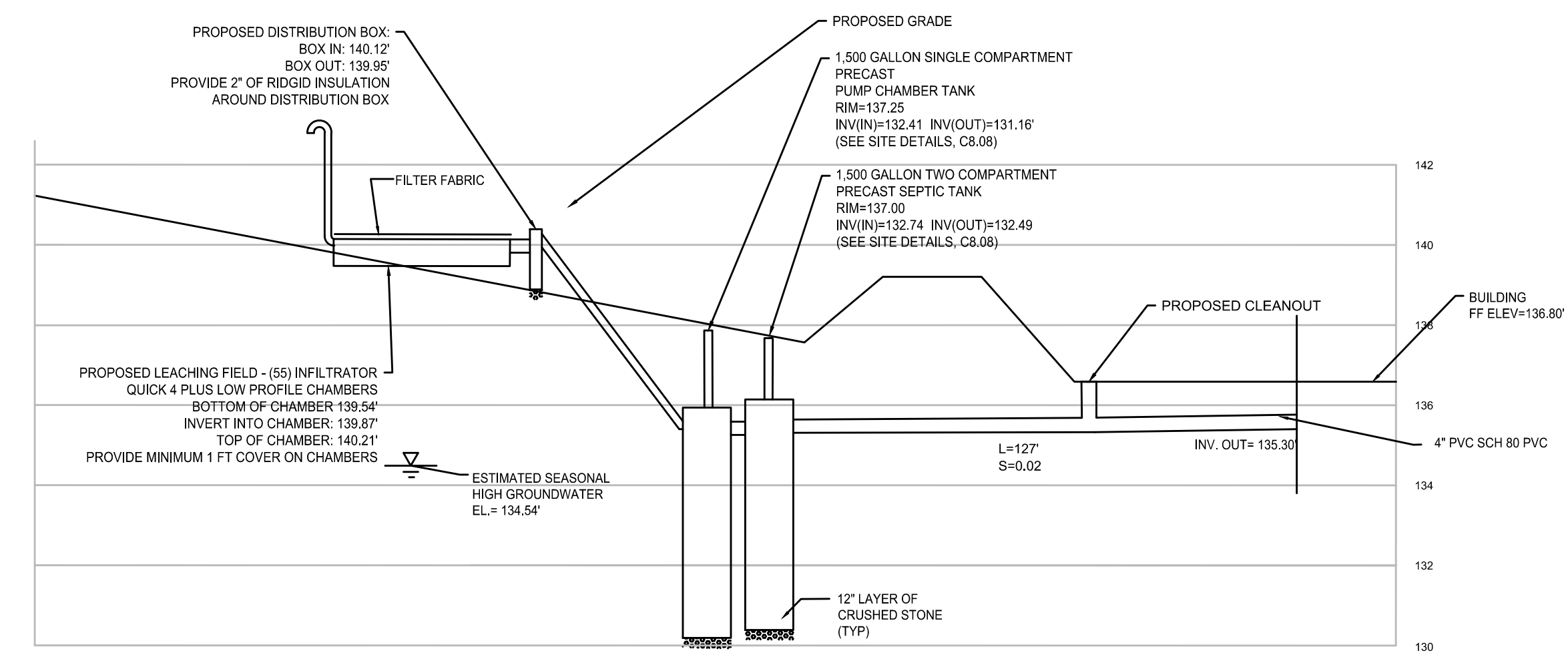
$$\Delta = 14^{\circ}33'54''$$

$$R = 1213.78'$$

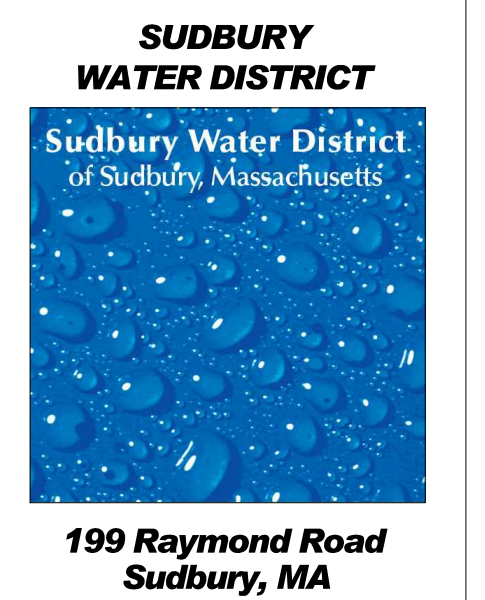
$$L = 308.55'$$

GENERAL NOTES:
DESIGN CRITERIA
 OFFICE SPACE: 7,625 SF. ROUND TO 8,000 SF
 (8) X 75 (GPD / 1000 SF) = 600 GPD
 (2) SHOWERS X 50 GPD / SHOWER = 100 GPD
 (PER AGREEMENT WITH HEALTH DEPARTMENT)
 TOTAL DESIGN FLOW: 700 GPD
 DESIGN PERCOLATION RATE: <math>< 2</math> MIN./INCH DESIGN SOIL
 CLASSIFICATION: CLASS I EFFLUENT LOADING RATE: 0.74 GPD/SF
SEPTIC TANK DESIGN
 DESIGN FLOW: 700 GPD
 NON-RESIDENTIAL: TWO-COMPARTMENT TANK
 200 % DAILY FLOW = 700 GPD X 2 = 1400 GALLONS
 USE - 1500 GALLON TANK.
PUMP CHAMBER DESIGN
 DESIGN FLOW: 700 GPD
 DOSING REQUIREMENT: xxx
 PLUS DRAIN BACK : xxx GAL/DOSE + xx GAL = xxx GAL/DOSE
 RESERVE REQUIREMENT = 700 GPD
 DRAINBACK VOLUME (FORCE MAIN & MANIFOLD) = xxx GALLONS
 (REQUIRED) USE A 1,500 GALLON TANK
 RESERVE = xxxxx
PUMPING SYSTEM
 1/2 HP DUPLEX GRINDER PUMP
 DESIGN: 25 GALS/MIN @ 25' TDH
LEACHING BED DESIGN
 700 GPD / 0.74 GPD/SF = 946 SF (REQUIRED)
 EFFECTIVE LEACHING AREA:
 USE INFILTRATOR QUICK 4 PLUS HIGH CAPACITY LOW CHAMBERS = 4.72 SF/LF
 946 SF / 4.72 SF/LF = 200.40 LF OF CHAMBERS (REQUIRED)
 PROVIDE : 5 ROWS OF 11 UNITS/CHAMBERS TOTAL NUMBER OF INFILTRATOR UNITS: 55
 55 CHAMBERS X 4 LF / CHAMBER X 4.71 SF/LF = 1,038.40 SF PROVIDED: OK
 SYSTEM DESIGN FLOW = 1,038.40 SF X .74 GPD/ SF = 768.40 GPD

GROUNDWATER SEPARATION
 BOTTOM OF BED EL. = 70.66'
 GROUNDWATER MOUNDING = 0.47'
 ESTIMATED SEASONAL HIGH GROUNDWATER ELEVATION = 65.19' + 0.47' (MOUNDING) = 65.66'
 ESTIMATED SEASONAL HIGH GROUND WATER ELEVATION BASED ON OBSERVATIONS AT TEST PIT TP-1.
SOIL EVALUATION
 SOIL EVALUATOR: MARK MARIANO (WESTON & SAMPSON ENGINEERS)
 WITNESS: BILL MURPHY (SUDBURY BOARD OF HEALTH)
 COMPLETION DATE: AUGUST 16, 2017
 SUNNY 80 DEGREES
GROUND ELEVATION OF TP #4: 138.54'
 0'-12" - Ab - 10 YR 4/4 - LOAMY SAND
 12'-22" - Bw - 2.5 YR 6/6 - LOAMY SAND
 22'-75" - C1 - 10 YR 6/2 - LOAMY SAND
 75'-103" - C2 - 2.5 Y 5/2 - SANDY LOAM
 REDOX FEATURES FOUND AT 48"
 WEEPING - 60"
 STANDING WATER - 87"
 LANDFORM: OUTWASH PLAIN
 PARENT MATERIAL - LOOSE SANDY GLACIOFLUVIAL DEPOSITS
 PERC AT 48" - PERC START - 12:43 PM
 PERC END - 12:58 PM
 12" = 12:58 PM
 9" = 1:00 PM
 6" = 1:03 PM
 PERC RATE: LESS THAN 2 MPI - 5 FT SEPERATION REQUIRED.
 ESTIMATED HIGH GROUNDWATER: 134.54
GROUND ELEVATION OF TP #5: 138.92'
 0'-12" - Ab - 10 YR 4/6 - LOAMY SAND
 12'-36" - Bw - 10 YR 6/8 - LOAMY SAND
 36'-91" - C1 - 2.5 Y 6/2 - LOAMY SAND
 91'-121" - C2 - 2.5 Y 5/2 - SANDY LOAM
 REDOX FEATURES FOUND AT 51"
 WEEPING = 80"
 NO STANDING WATER (HOLE WAS UNSTABLE, NOT HELD OPEN LONG ENOUGH TO GET STANDING WATER)
 LANDFORM: OUTWASH PLAIN
 PARENT MATERIAL - LOOSE SANDY GLACIOFLUVIAL DEPOSITS
 PERC WAS NOT PERFORMED. MATERIAL WAS IDENTICAL TO FIRST TEST PIT.
 AGREED UPON BY HEALTH AGENT.
 ESTIMATED HIGH GROUNDWATER: 134.67'



NOT FOR CONSTRUCTION



Weston & Sampson
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 (508) 698-3034 (800) SAMPSON
 www.westonandsampson.com

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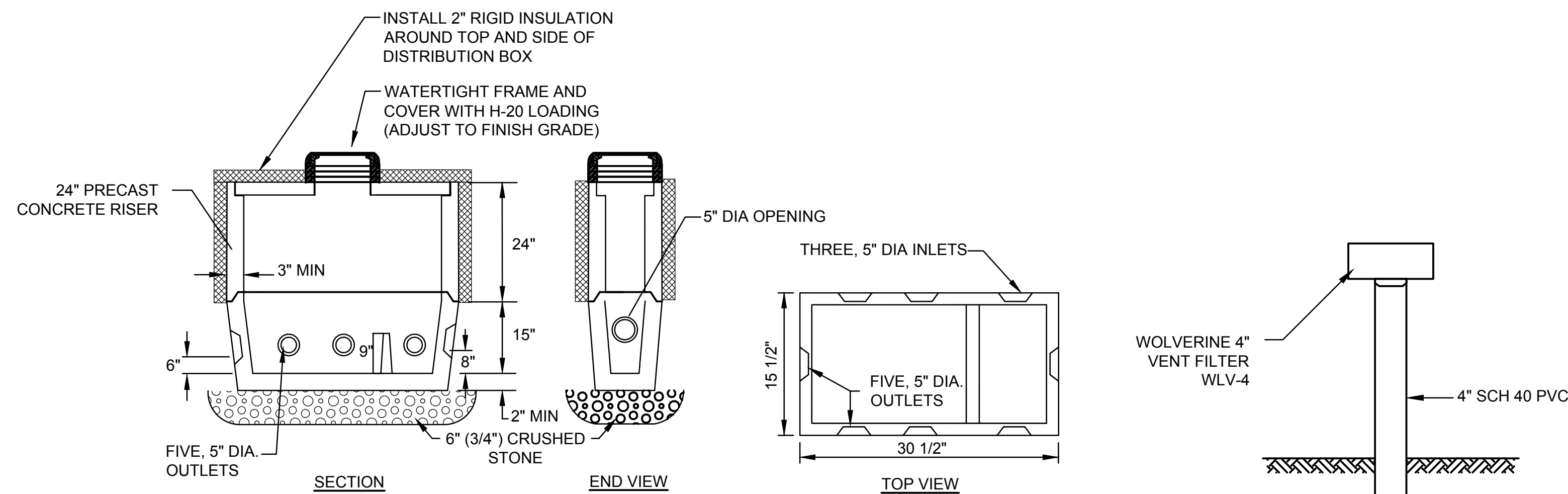
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Drawing Title:
SEPTIC LAYOUT & ELEVATIONS PLAN

Sheet Number:
C7.07

SEPTIC TANK NOTES:

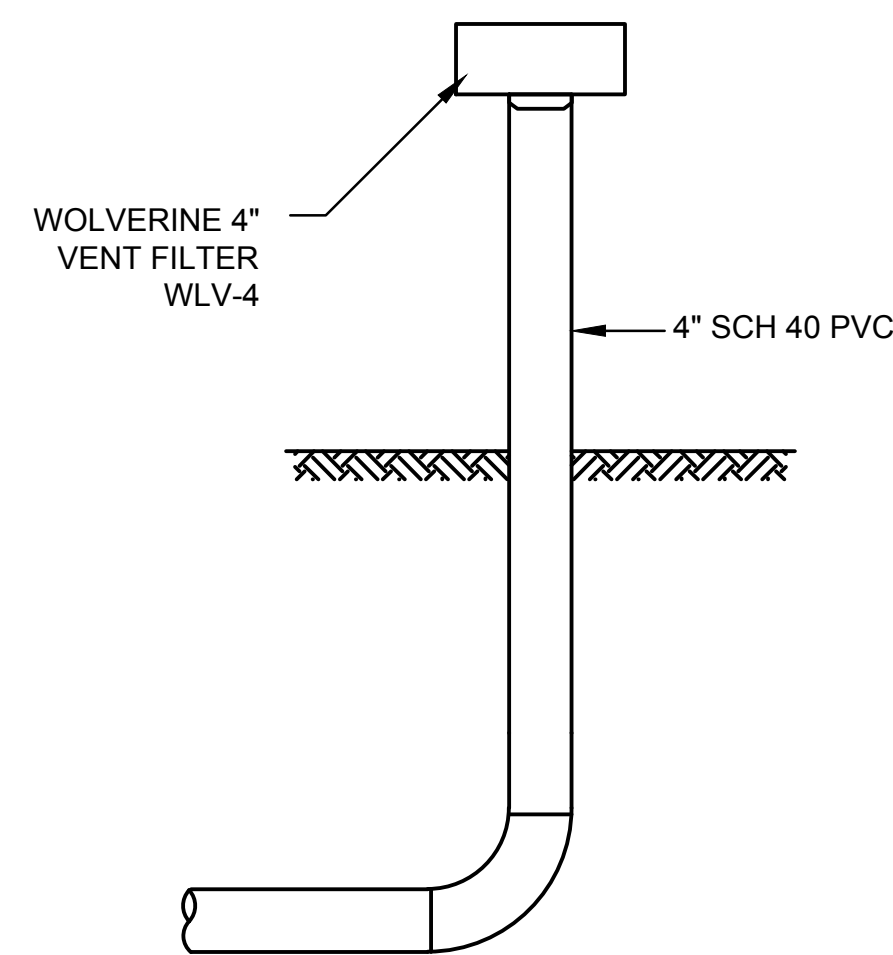
1. CONCRETE: 5,000 PSI AFTER 28 DAYS.
2. TANK AND COVERS TO MEET AASHTO H-20 LOADING.
3. KEYED JOINT TO BE SEALED WITH BUTYL RUBBER.
4. PRECAST CONCRETE SEPTIC TANK SHALL MEET REQUIREMENTS OF 310 CMR 15.223 THROUGH 15.228.
5. INLET TEE TO EXTEND BELOW LIQUID LEVEL IN ACCORDANCE WITH 310 CMR 15.227.
6. SEPTIC TANK TEES SHALL EXTEND A MINIMUM OF 6" ABOVE THE FLOW LINE.
7. ALL SEPTIC TANK MANHOLE FRAMES AND COVERS SHALL BE ADJUSTED TO FINISHED GRADE AS DETAILED ABOVE. FIBER REINFORCED PRECAST CONCRETE MANHOLE DONUTS SHALL BE USED TO ADJUST MANHOLE FRAMES TO GRADE WHEN THE USE OF BRICKS EXCEEDS ONE VERTICAL FOOT.
8. OUTLET TEE TO CONSIST OF AN A100-8x18-VC ZABEL EFFLUENT FILTER.



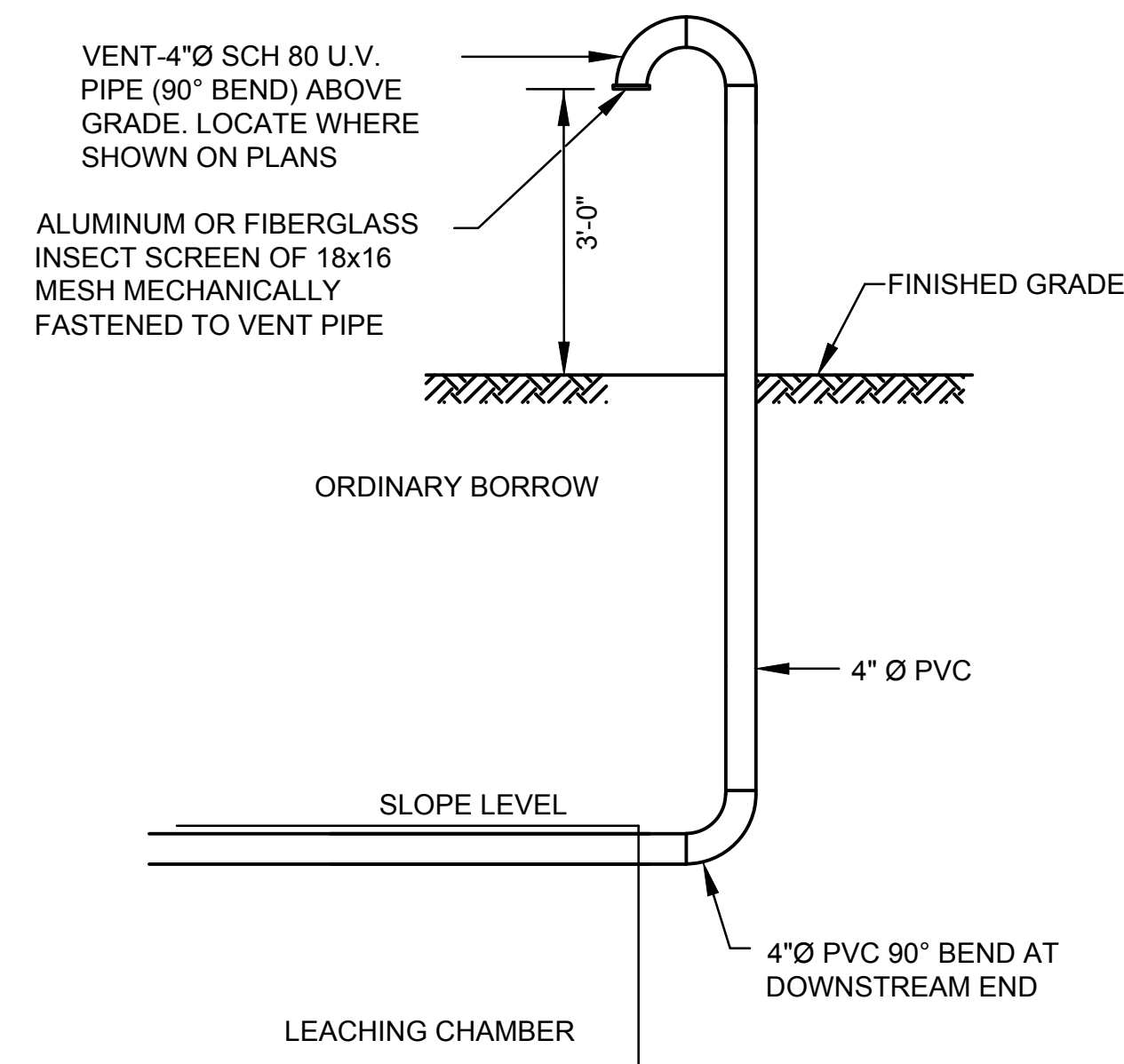
NOTES:

1. DISTRIBUTION BOX SHALL BE PLACED ON A MINIMUM 6" CRUSHED STONE BASE.
2. UNUSED OUTLETS TO BE PLUGGED WITH GROUT.
3. OUTLET LINES FROM THE DISTRIBUTION BOX SHALL BE INSTALLED LEVEL FOR THE FIRST TWO FEET.
4. CONCRETE: 5000 PSI AFTER 28 DAYS.
5. DISTRIBUTION BOX TO MEET H-20 LOADING.
6. KEYED JOINT TO BE SEALED WITH BUTYL RUBBER.

2 SEPTIC VENT
SCALE: N.T.S.

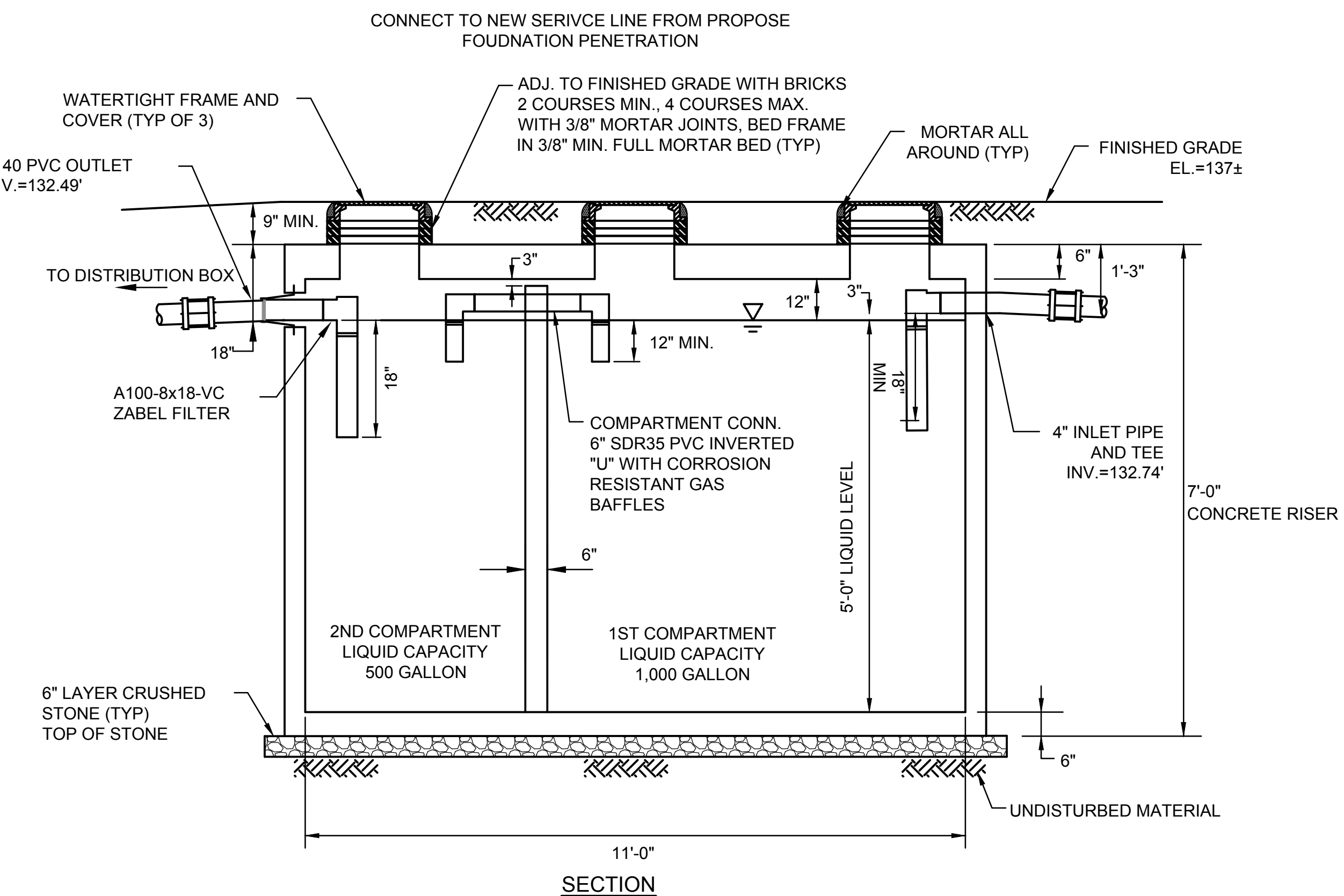
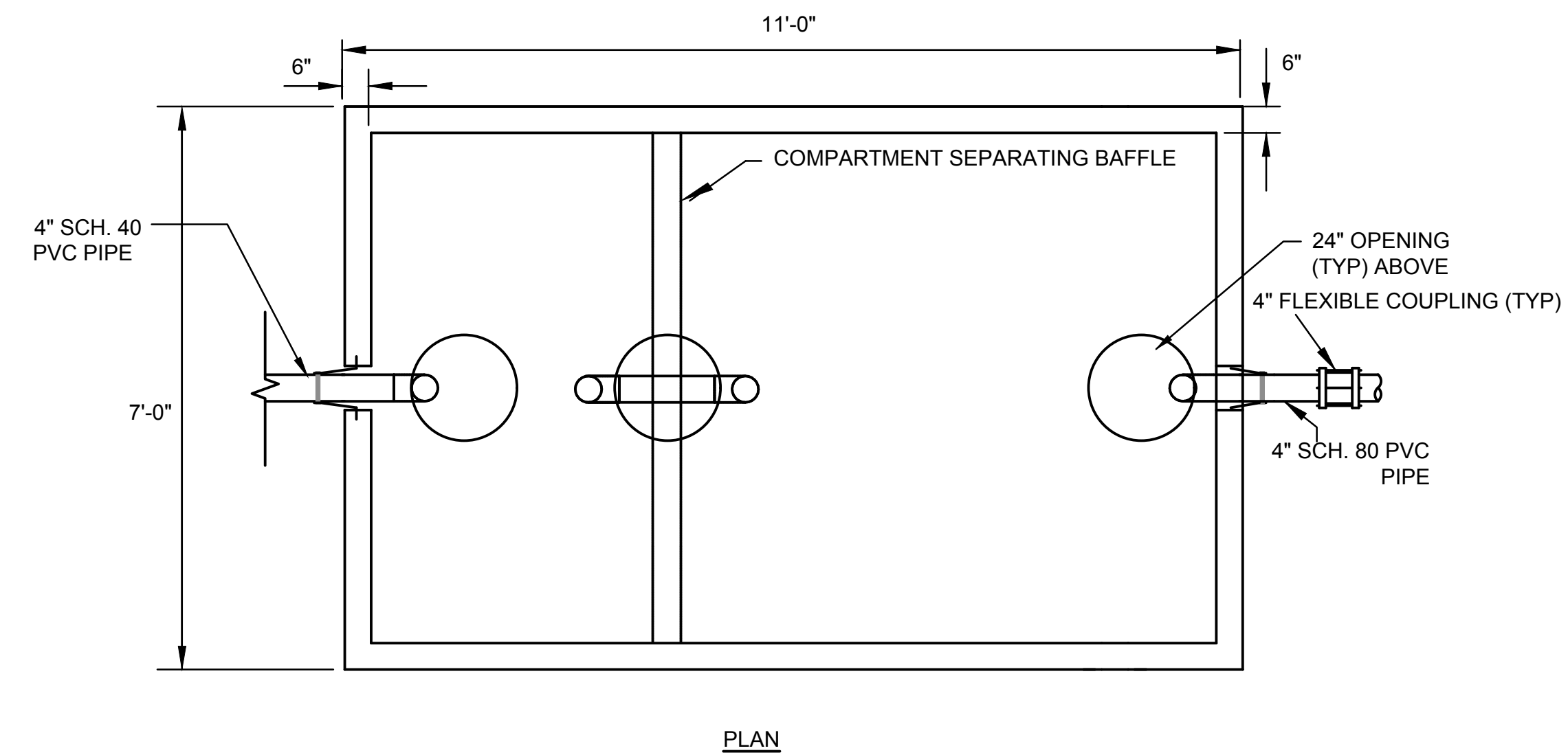
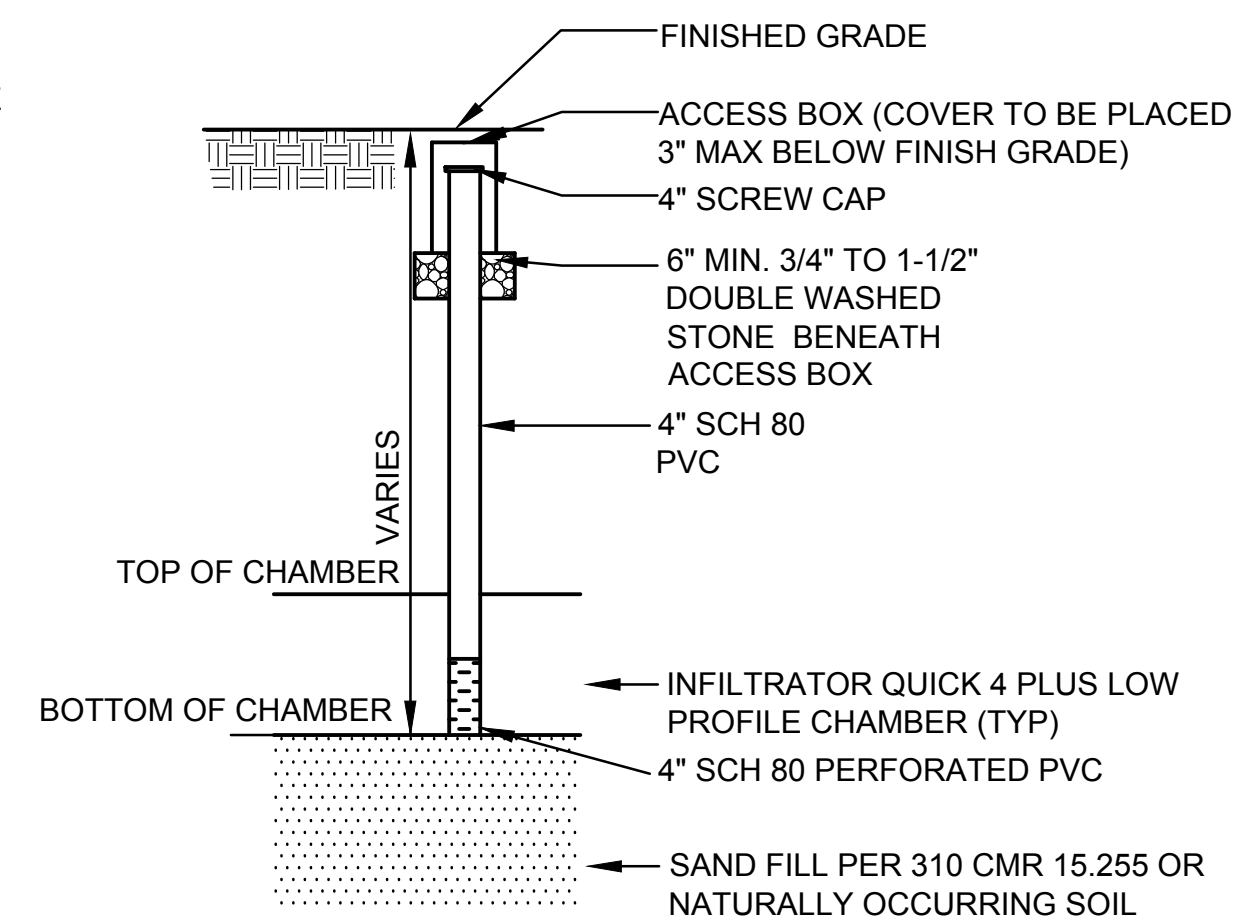


1 PRECAST DISTRIBUTION BOX WITH BAFFLE DETAIL
SCALE: N.T.S.



3 LEACHING TRENCH VENTING DETAIL
SCALE: N.T.S.

4 INSPECTION PORT DETAIL
SCALE: N.T.S.



5 1,500 GALLON PRECAST SEPTIC TANK (TWO COMPARTMENT) DETAIL
SCALE: N.T.S.

Revisions:

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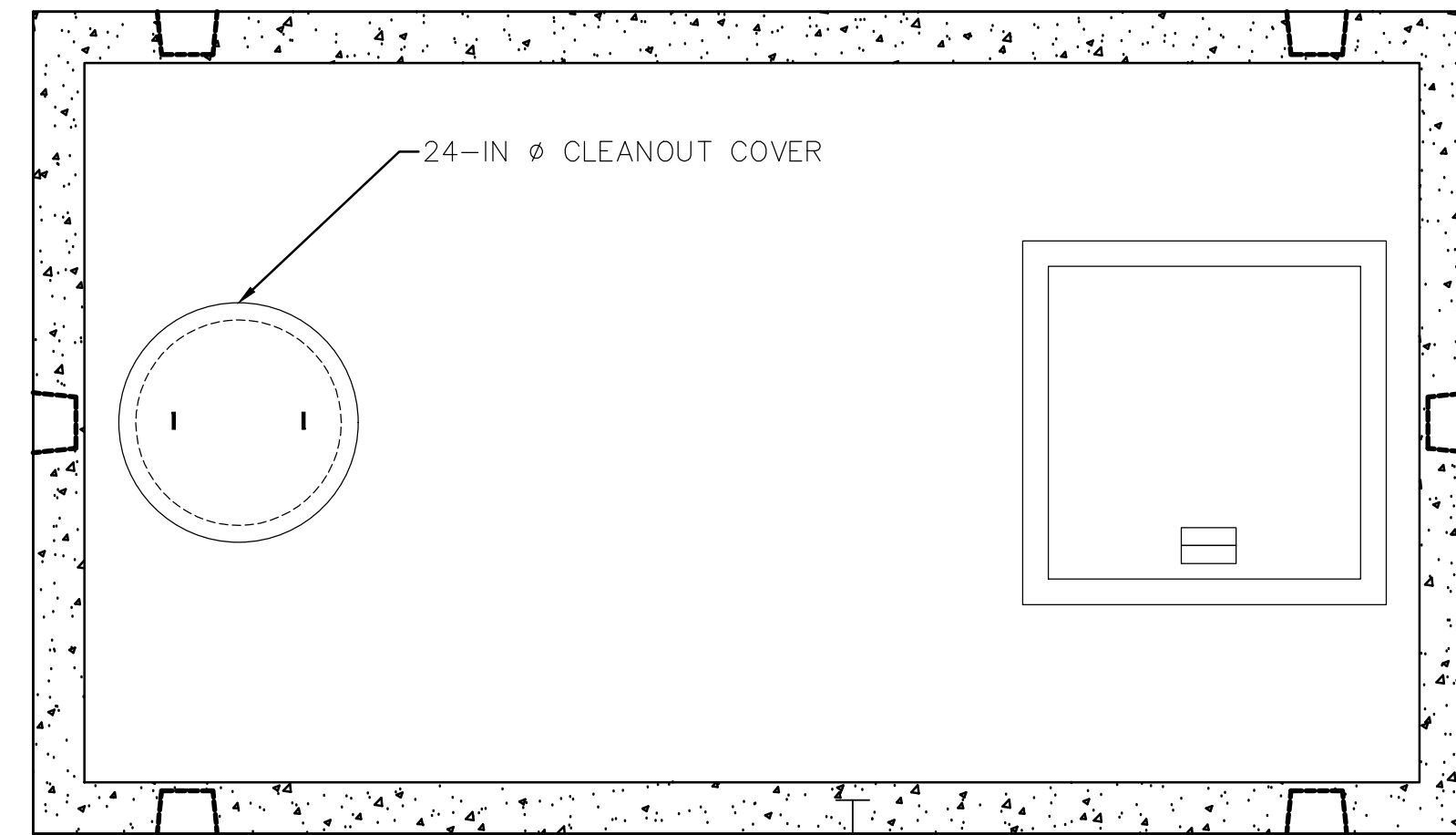
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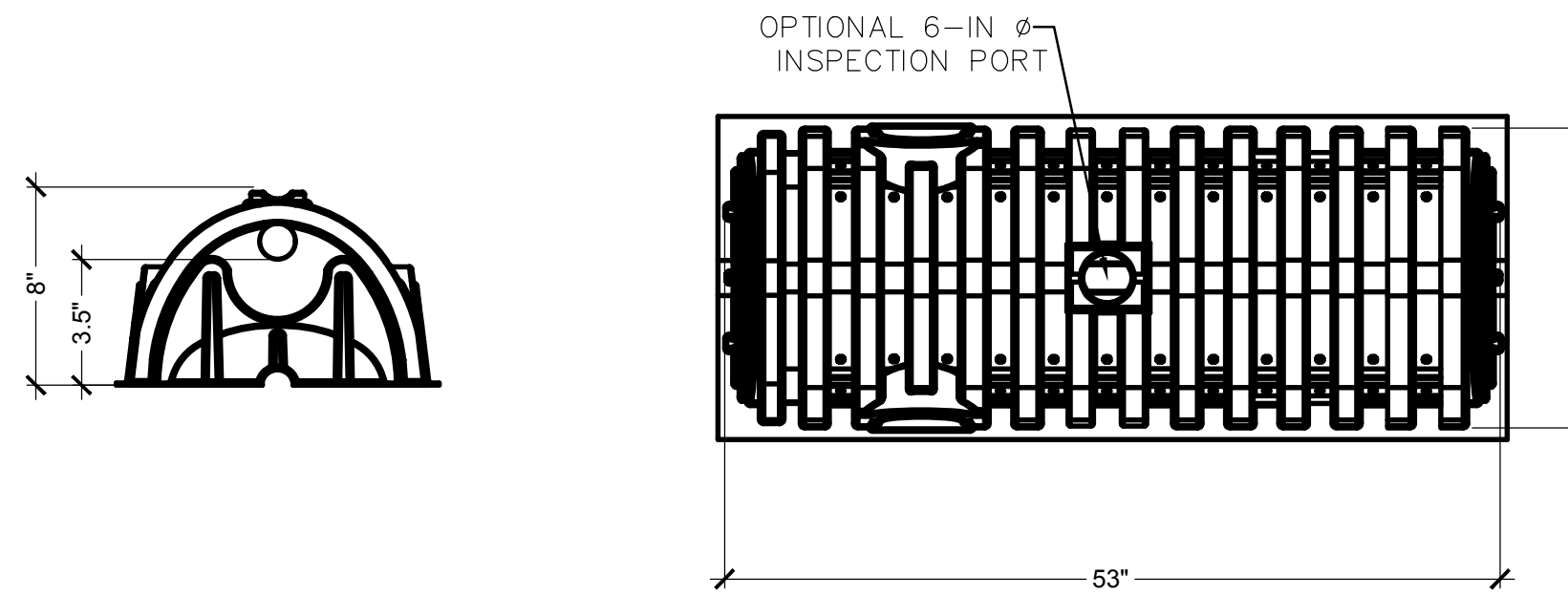
SEPTIC DETAILS

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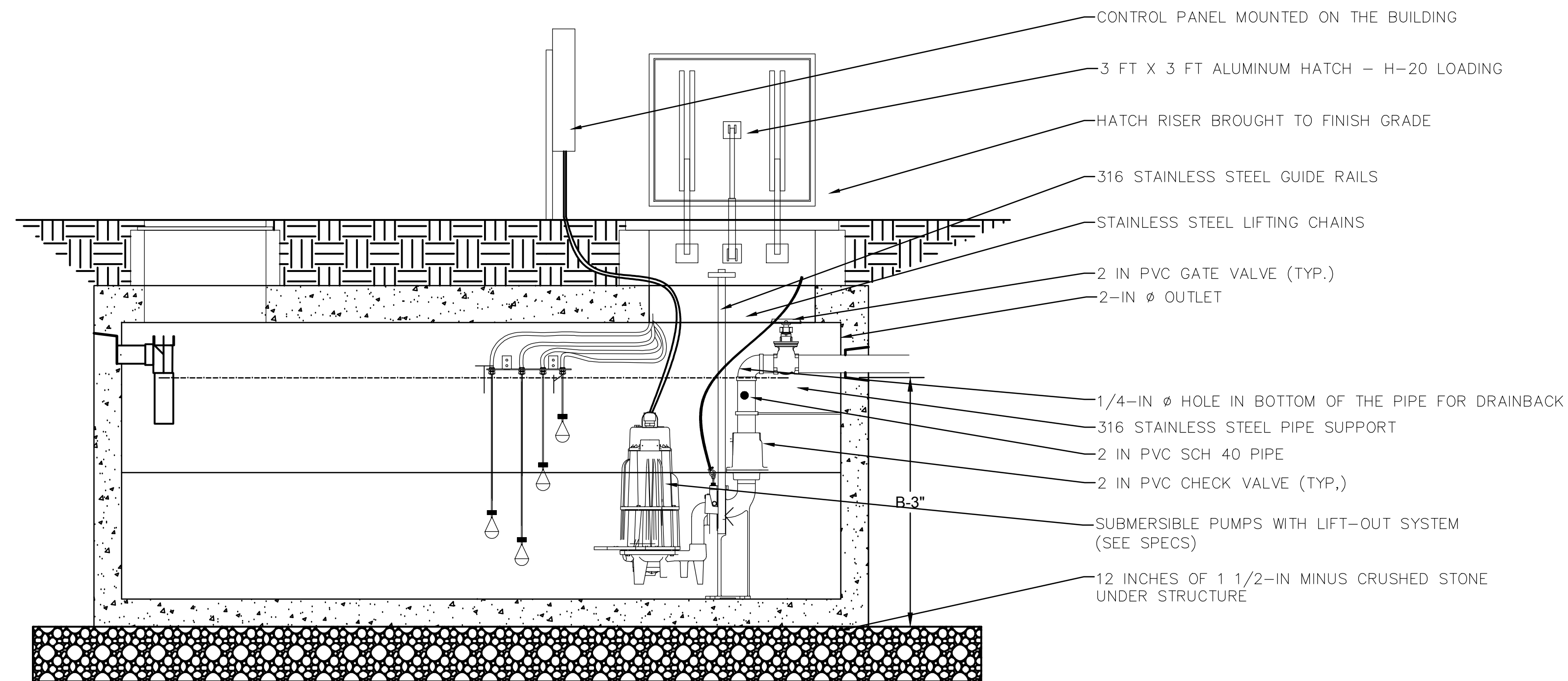
C7.08



PLAN VIEW



2 INFILTRATOR QUICK 4 PLUS LOW PROFILE
SCALE: N.T.S.



1 1500 GALLON PRECAST TANK PUMP CHAMBER
SCALE: N.T.S.

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Scale: 1"=20'
Drawn By: NAP
Reviewed By: AKP
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Drawing Title:
SEPTIC DETAILS

Sheet Number:
C7.09