



REVISIONS

PROJECT NAME

BUFFALO LAKE ROAD TRACT 3

EXISTING CONDITIONS

CLIENT

VENTURE PROPERTIES

126 Executive Drive - Suite 200
 Wilkesboro, North Carolina 28697
 Phone: (336) 981-7126

PROJECT INFORMATION

| | |
|-----------------|-------|
| SURVEYED BY: | BOBBY |
| DRAWN BY: | SEAN |
| CHECKED BY: | JIMMY |
| PROJECT NUMBER: | 1555 |

DRAWING SCALE

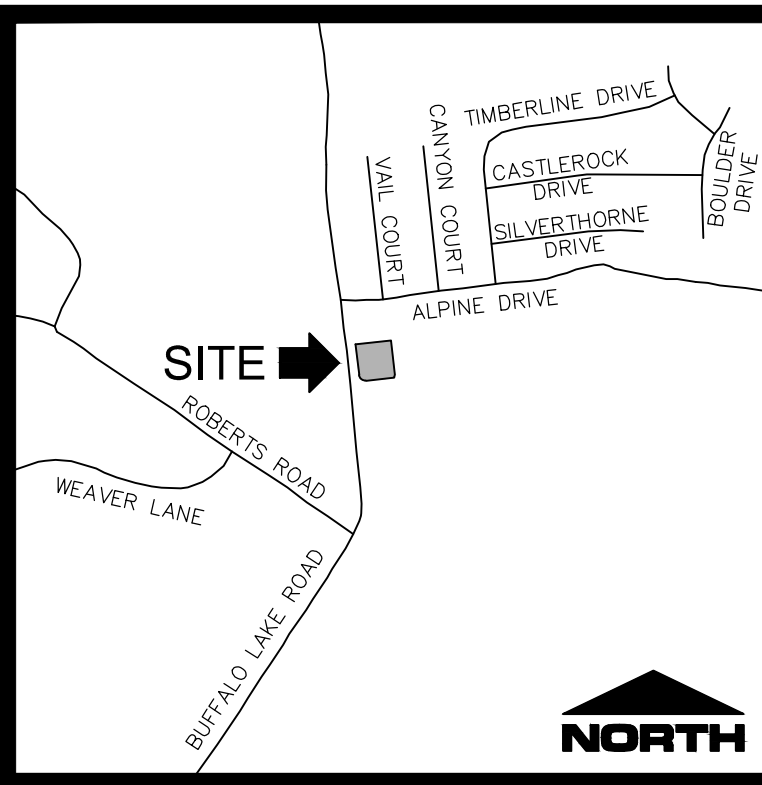
HORIZONTAL: 1"=20'

DATE SURVEYED

SEPTEMBER 27, 2019

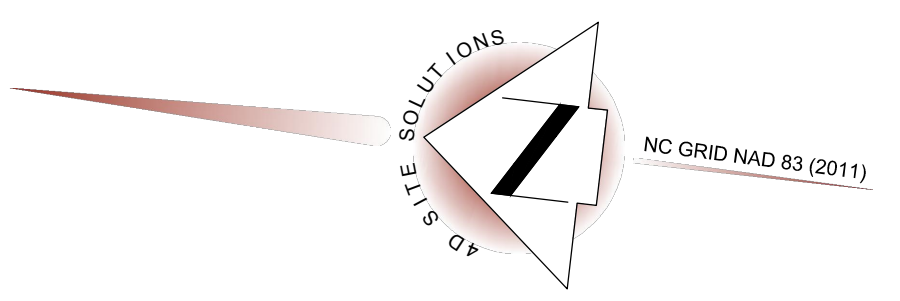
SHEET NUMBER

C-1.0



VICINITY MAP
NOT TO SCALE

AREA: (BY COORDINATE COMPUTATION)
 51,151 SF (1.17 AC)
 PIN NO: 9586-78-3233.000
 ZONING: COMM
 35' FRONT
 0' SIDE
 25' REAR
 SOURCE OF TITLE
 DB 2890, PG 877
 PB 2010, PG 674
 HARNETT COUNTY
 REGISTER OF DEEDS



- LEGEND:
- EPK - EXISTING IRON PIPE
 - EPK - EXISTING PK NAIL
 - EPK - EXISTING PAINT MARK
 - ERB - EXISTING REBAR
 - CP - COMPUTED POINT
 - N/F - NOW OR FORMERLY
 - R/W - RIGHT OF WAY
 - PVC - POLYVINYL CHLORIDE
 - RCP - REINFORCED CONCRETE PIPE
 - PROPERTY LINE
 - ADJACENT PROPERTY LINE
 - RIGHT-OF-WAY
 - SETBACK LINE
 - SS - SANITARY SEWER LINE
 - SD - STORM DRAINAGE
 - W - WATER LINE
 - /// OVERHEAD UTILITY
 - PERMANENT EASEMENT
 - 445 - MAJOR CONTOUR
 - 442 - MINOR CONTOUR
 - 437.47' SPOT ELEVATION
 - BM - BENCHMARK
 - TRANS - TRANSFORMER
 - UT - UTILITY POLE
 - GUY - GUY WIRE
 - VAL - WATER VALVE
 - FH - FIRE HYDRANT
 - WM - WATER METER
 - BFP - BACK FLOW PREVENTER
 - CB - CATCH BASIN
 - SM - SANITARY SEWER MANHOLE
 - CO - CLEANOUT
 - RR - RIP RAP
 - AS - ASPHALT

- NOTES:
- ALL DISTANCES SHOWN ARE HORIZONTAL GROUND DISTANCES UNLESS OTHERWISE NOTED.
 - COMBINED SCALE FACTOR: 0.99987314
 LOCALIZATION POINT N: 568,413.322 E: 1,987,417.406
 CONTROL ESTABLISHED VIA NORTH CAROLINA GEODETIC SURVEY VIRTUAL REFERENCE SYSTEM.
 - THE HORIZONTAL AND VERTICAL CONTROL FOR THIS SURVEY WERE ESTABLISHED USING THE NORTH CAROLINA GEODETIC SURVEY VIRTUAL REFERENCE SYSTEM.
 - LINE NOT SURVEYED ARE SHOWN AS DASHED LINES FROM INFORMATION REFERENCED ON THE FACE OF THIS MAP.
 - NONCONFORMING STRUCTURES HAVE NOT BEEN CREATED BY THIS SURVEY.
 - THIS SURVEY WAS DONE WITHOUT BENEFIT OF A TITLE SEARCH AND IS BASED ON REFERENCED INFORMATION SHOWN HERE ON. OTHER DOCUMENTS OF RECORD MAY EXIST WHICH COULD AFFECT THIS PROPERTY. NO RESPONSIBILITY IS ASSUMED BY THIS SURVEYOR FOR ANY CONDITIONS WHICH MAY PRESENTLY EXIST BUT ARE UNKNOWN OR REFERENCED HERE ON, SUCH AS BUT NOT LIMITED TO HAZARDOUS WASTE MATERIALS, EASEMENTS, SEMETERIES, AND FLOOD AREAS.
 - LOCATIONS OF ALL UNDERGROUND UTILITIES LYING WITHIN THIS MAPPED AREA MAY NOT BE SHOWN ON THIS PLAN. DEVELOPERS OR CONTRACTORS SHOULD NOT ONLY MAKE SUBSURFACE INVESTIGATIONS BUT SHOULD ALSO ALLOW FOR CONTINGENCIES WHICH MIGHT ARISE BY REASON OF ENCOUNTERING UNRECORDED LINES OR OF LINES BEING IN DIFFERENT LOCATIONS THAN INDICATED ON THIS SURVEY.
 - THIS PROPERTY LIES WITHIN FLOOD ZONE "X" ACCORDING TO MAP# 371098800 OF THE FLOOD INSURANCE RATE, DATED OCTOBER 3, 2006.



I, SEAN R. SEEVER, CERTIFY THAT THIS MAP WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION (DEED DESCRIPTION RECORDED IN BOOK 2890, PAGE 877 OR OTHER REFERENCE SOURCE) THAT THE BOUNDARIES NOT SURVEYED ARE INDICATED AS DRAWN FROM INFORMATION IN BOOK _____ PAGE _____ OR OTHER REFERENCE SOURCE THAT THE RATIO OF PRECISION OR POSITIONAL ACCURACY IS 1:10,000+; AND THAT THIS MAP MEETS THE REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA (21 NCAC 56.1600). WITNESS MY HAND AND SEAL THIS 07 DAY OF JANUARY, 2020.

Sean R. Seever
 PROFESSIONAL LAND SURVEYOR - L-4571

I, SEAN R. SEEVER, CERTIFY THAT THE CONTROL FOR THIS SURVEY WAS ESTABLISHED FROM AN ACTUAL GPS SURVEY UNDER MY SUPERVISION. THIS GPS SURVEY WAS PERFORMED TO C-2H FGCC SPECIFICATIONS RTK GPS WITH VRS FIELD PROCEDURES WERE USED. THE COORDINATES WERE OBTAINED THROUGH A GRID TO GROUND ADJUSTMENT USING THE COMBINED SCALE FACTOR SHOWN HEREON. THIS SURVEY WAS PERFORMED ON SEPTEMBER 27, 2019 USING TWO TRIMBLE 5700 RECEIVERS.

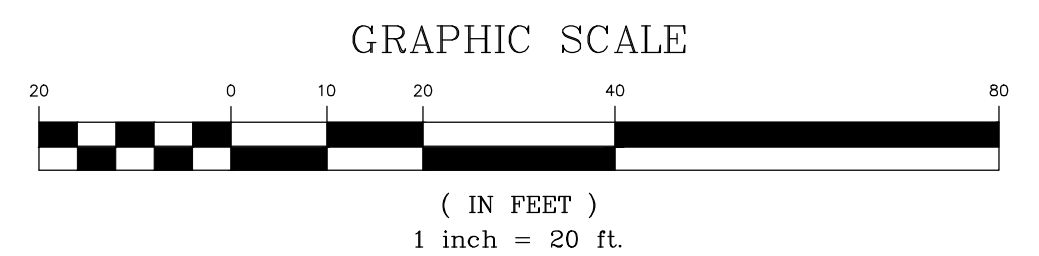
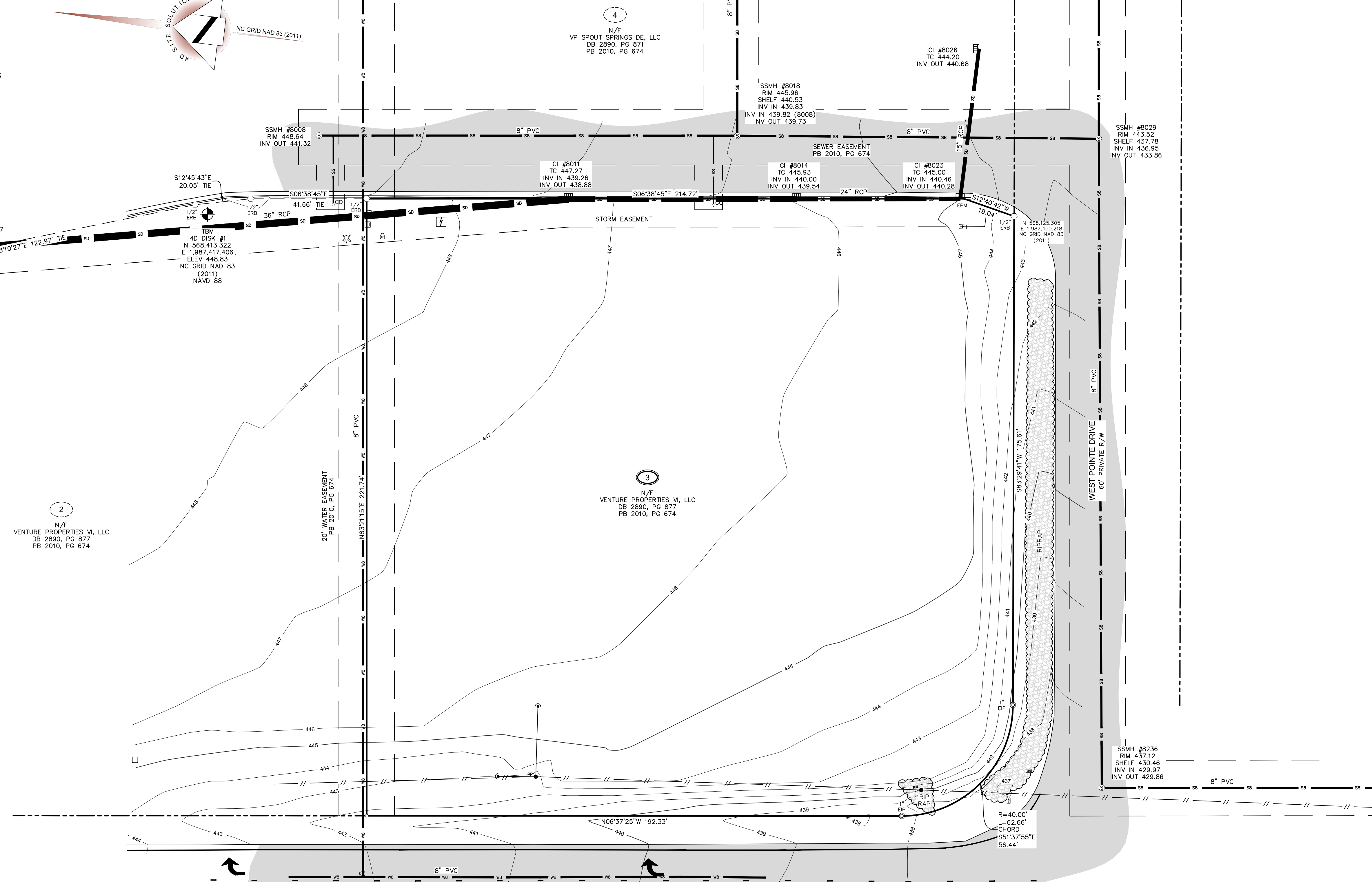
Sean R. Seever
 PROFESSIONAL LAND SURVEYOR - L-4571

I, SEAN R. SEEVER, CERTIFY THAT THIS CLASS "C" TOPOGRAPHIC MAP WAS DRAWN FROM AN ACTUAL SURVEY PERFORMED UNDER MY DIRECT SUPERVISION AND THAT IT MEETS OR EXCEEDS THE NORTH CAROLINA ADMINISTRATIVE CODE 21-56.1605 AND 21-56.1606. WITNESS MY HAND AND SEAL THIS 07 DAY OF JANUARY, A.D., 2020.

Sean R. Seever
 PROFESSIONAL LAND SURVEYOR - L-4571

I, SEAN R. SEEVER, CERTIFY THAT THIS SURVEY IS OF AN EXISTING PARCEL OR PARCELS OF LAND OR ONE OR MORE EXISTING EASEMENTS AND DOES NOT CREATE A NEW STREET OR CHANGE AN EXISTING STREET.

Sean R. Seever
 PROFESSIONAL LAND SURVEYOR - L-4571





REVISIONS

PROJECT NAME

BUFFALO LAKE ROAD TRACT 3

SITE PLAN

CLIENT

VENTURE PROPERTIES

126 Executive Drive - Suite 200
 Wilkesboro, North Carolina 28697
 Phone: (336) 981-7126

PROJECT INFORMATION

| | |
|-----------------|-------|
| DESIGNED BY: | SCOTT |
| DRAWN BY: | SCOTT |
| CHECKED BY: | CHRIS |
| PROJECT NUMBER: | 1555 |

DRAWING SCALE

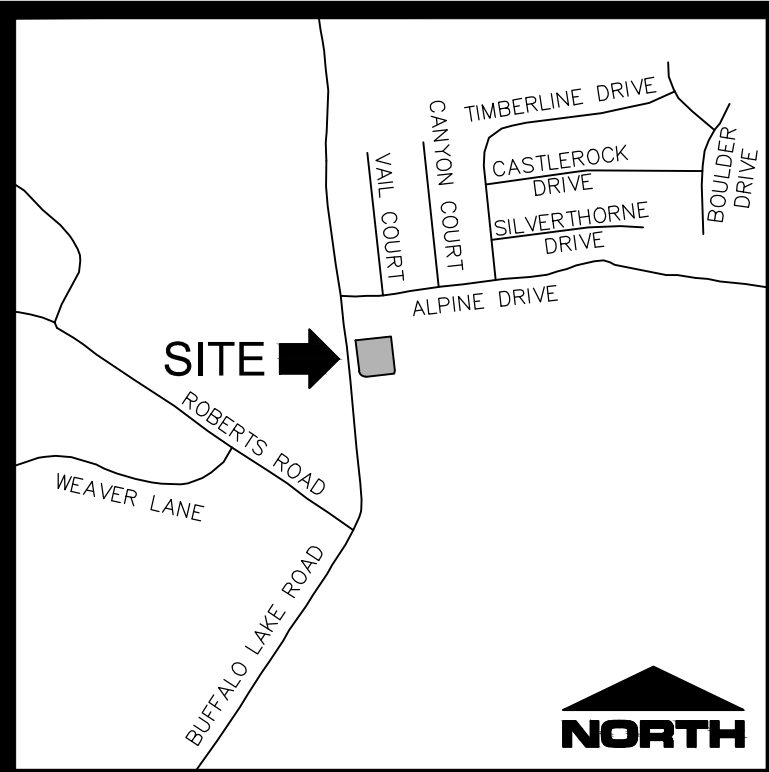
HORIZONTAL: 1"=20'

DATE RELEASED

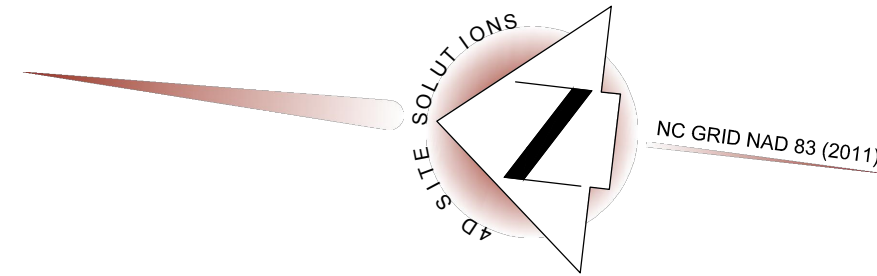
JANUARY 7, 2020

SHEET NUMBER

C-2.0



**VICINITY MAP
NOT TO SCALE**



- LEGEND:**
- EPK - EXISTING IRON PIPE
 - EPK - EXISTING PK NAIL
 - EPM - EXISTING PAINT MARK
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 - N/F - NOW OR FORMERLY
 - R/W - RIGHT OF WAY
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 - ⊠ - TRANSFORMER
 - PP - UTILITY POLE
 - - GUY WIRE
 - ⊠ - WATER VALVE
 - ⊠ - FIRE HYDRANT
 - ⊠ - WATER METER
 - ⊠ - BACK FLOW PREVENTER
 - ⊠ - CATCH BASIN
 - ⊠ - SANITARY SEWER MANHOLE
 - ⊠ - CLEANOUT
 - ⊠ - RIP RAP
 - ⊠ - ASPHALT

SITE NOTES

- EXISTING UNDERGROUND UTILITIES ARE SHOWN ONLY WHERE EVIDENCE COULD BE FOUND TO VERIFY LOCATION. PRIOR TO CONSTRUCTION OR EXCAVATION OF THE SITE, THE GENERAL CONTRACTOR SHALL VERIFY ALL UTILITY COMPANIES TO VERIFY THE LOCATION OF THEIR RESPECTIVE UTILITIES. ALL DAMAGE INCURRED TO EXISTING UTILITIES DURING CONSTRUCTION SHALL BE REPAIRED AT THE GENERAL CONTRACTOR'S EXPENSE.
- ASPHALT AND BASE TYPE SHALL BE PER THE DETAILS.
- HANDICAP RAMPS, SIGNAGE AND PARKING SPACES SHALL BE PROVIDED BY THE CONTRACTOR AND INSTALLED PER FEDERAL ADA AND LOCAL REQUIREMENTS.
- ALL DIMENSIONS ARE TO THE BACK OF CURB OR TO THE FACE OF SIDEWALK UNLESS OTHERWISE NOTED.
- ALL RADI ARE 5' UNLESS OTHERWISE NOTED.
- PARKING STALLS MUST BE STRIPED WITH A 4 INCH CONTRASTING STRIPE (YELLOW ON CONCRETE AND YELLOW OR WHITE ON ASPHALT PARKING LOT).
- HANDICAP PARKING SPACES ARE TO BE DESIGNATED BY BLUE STRIPING AND EITHER A BLUE SYMBOL ON A WHITE BACKGROUND OR A WHITE SYMBOL ON A BLUE BACKGROUND. ALL HANDICAP PARKING SPACES REQUIRE THE INSTALLATION OF THE PROPER SIGNAGE.
- ALL PARKING SPACES ARE TO BE LAID OUT IN ACCORDANCE WITH THE SITE PLAN DIMENSIONS.
- LAND USE CLASSIFICATION IS EMPLOYMENT MIXED USE.
- PROPERTY OWNER WILL BE RESPONSIBLE FOR MAINTAINING THE PARKING AREAS, DRIVE AISLES AND ALL LANDSCAPE BUFFERINGS.
- ALL MECHANICAL AREAS LOCATED ON, BESIDE OR ADJACENT TO ANY BUILDING SHALL BE SCREENED FROM VIEWS OF STREETS AND ADJACENT PROPERTY.
- ALL WASTE MATERIAL SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH STATE AND LOCAL LAWS AND REGULATIONS.
- ALL SITE IMPROVEMENTS SHALL BE INSTALLED PER HARNETT COUNTY AND STATE REGULATIONS.

SITE DATA

| | |
|---------------------------------------|--|
| DEVELOPER | VENTURE PROPERTIES, LLC |
| MAILING ADDRESS | 126 EXECUTIVE DRIVE, SUITE 200 WILKESBORO, NORTH CAROLINA 28697 |
| CITY, STATE | WILKESBORO, NORTH CAROLINA 28697 |
| PIN NUMBER | 9586-78-3233.000 |
| TOTAL LOT AREA | 51,151 SF (1.17 AC) |
| AREA TO BE DEVELOPED | 51,151 SF (1.17 AC) |
| ZONING | COMM |
| EXISTING USE | VACANT |
| PROPOSED USE | RETAIL/RESTAURANT |
| DISTURBED/DENUDED AREA | 1.4 AC |
| SETBACKS REQUIRED: | |
| FRONT | 35 FT |
| SIDE | 0 FT |
| CORNER SIDE | 20 FT/ 15 FT ADJACENT TO ACCESS EASEMENT OR PRIVATE STREET |
| REAR | 25 FT |
| PARKING: | |
| REQUIRED (INCLUDING HANDICAP) | 72 |
| RETAIL (1/300 SF) | 14.8 |
| RESTAURANT (196 SEATS + 15 EMPLOYEES) | 56.5 |
| PROPOSED (INCLUDING HANDICAP) | 72 |
| PROPOSED HC SPACES | 4 |
| PROPOSED IMPERVIOUS AREA | 44,939 SF |

OWNER'S CONSENT

AS THE OWNER OF RECORD, I HEREBY FORMALLY CONSENT TO THE PROPOSED DEVELOPMENT SHOWN ON THE SITE PLAN AND ALL REGULATIONS AND REQUIREMENTS OF THE HARNETT COUNTY ORDINANCES.

DATE _____ OWNER'S SIGNATURE _____

SR 1115 (BUFFALO LAKE ROAD)

70' PUBLIC R/W

LANDSCAPING NOTES:

- HEIGHT AND SPREAD OF TREE SPECIMEN SHALL MEET REQUIREMENTS OF THE AMERICAN ASSOCIATION OF NURSERYMEN, AMERICAN STANDARD FOR NURSERY STOCK.
- EACH TREE SHALL BE PLANTED SUCH THAT THE ROOT FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL. TREES WHERE THE ROOT FLARE IS NOT VISIBLE SHALL BE REJECTED. DO NOT COVER THE ROOT FLARE WITH MULCH.
- DO NOT PLACE MULCH IN CONTACT WITH THE TREE TRUNK. KEEP MULCH A MINIMUM OF 4 INCHES AWAY FROM THE TRUNK BASE.

*THIS LANDSCAPING PLAN IS THE MINIMUM REQUIRED TO MEET WITH THE HARNETT COUNTY LDO. THE OWNER OR DEVELOPER IS ENCOURAGED TO CONSULT WITH A LANDSCAPE ARCHITECT IN ORDER TO DEVELOP A PLAN THAT IS MORE IN DEPTH THAN THE MINIMUM REQUIREMENTS. THIS PLAN IS FOR PERMITTING PURPOSES ONLY.

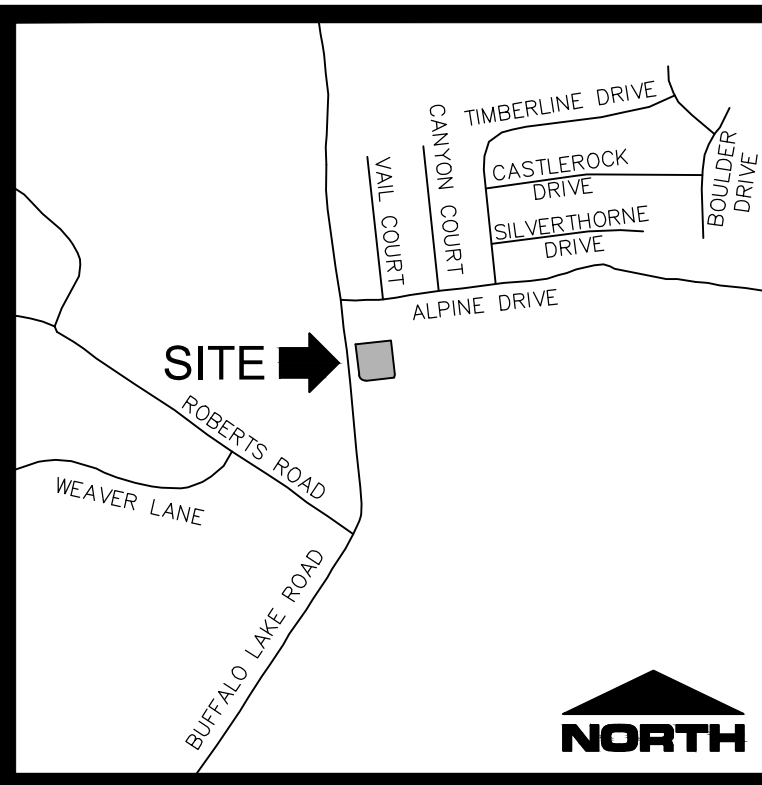
HOURS OF OPERATION: MONDAY THROUGH FRIDAY; 8AM - 5PM

| QTY. | TYPE | PLANTING SIZE | MIN. HEIGHT | SCIENTIFIC NAME |
|-------------------------|--------------------|---------------|-------------|-------------------------|
| CANOPY TREES | | | | |
| 5 | TULIP TREE | 2" CALIPER | 6' | LIRIODENDRON TULIPIFERA |
| 5 | JAPANESE FIR | 2" CALIPER | 6' | ABIES FIRMA |
| 5 | WILLOW OAK | 2" CALIPER | 6' | QUERCUS PHELLOS |
| 11 | YOSHINO CHERRY | 2" CALIPER | 6' | PRUNUS X YEDOENSIS |
| 3 | RED MAPLE | 2" CALIPER | 6' | ACER RUBRUM |
| UNDERSTORY TREES | | | | |
| 4 | JAPANESE MAPLE | 1.5" CALIPER | 6' | ACER PALMATUM |
| SHRUBS | | | | |
| 18 | FLOWERING QUINCE | 2 GAL. | 18" | CHAENOMELES |
| 107 | LITTLELEAF BOXWOOD | 2 GAL. | 18" | BUXUS MICROPHYLLA |

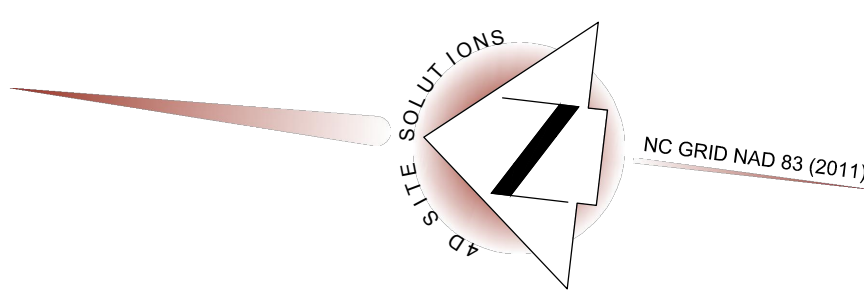
GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.

1555 Buffalo Lake Road, Suite 200, Wilkesboro, NC 28697
 409 Chicago Drive, Suite 112, Fayetteville, NC 28306
 910-426-6777 Fax 910-426-5777 License number C-2354
 www.4dsitesolutions.com



VICINITY MAP
NOT TO SCALE

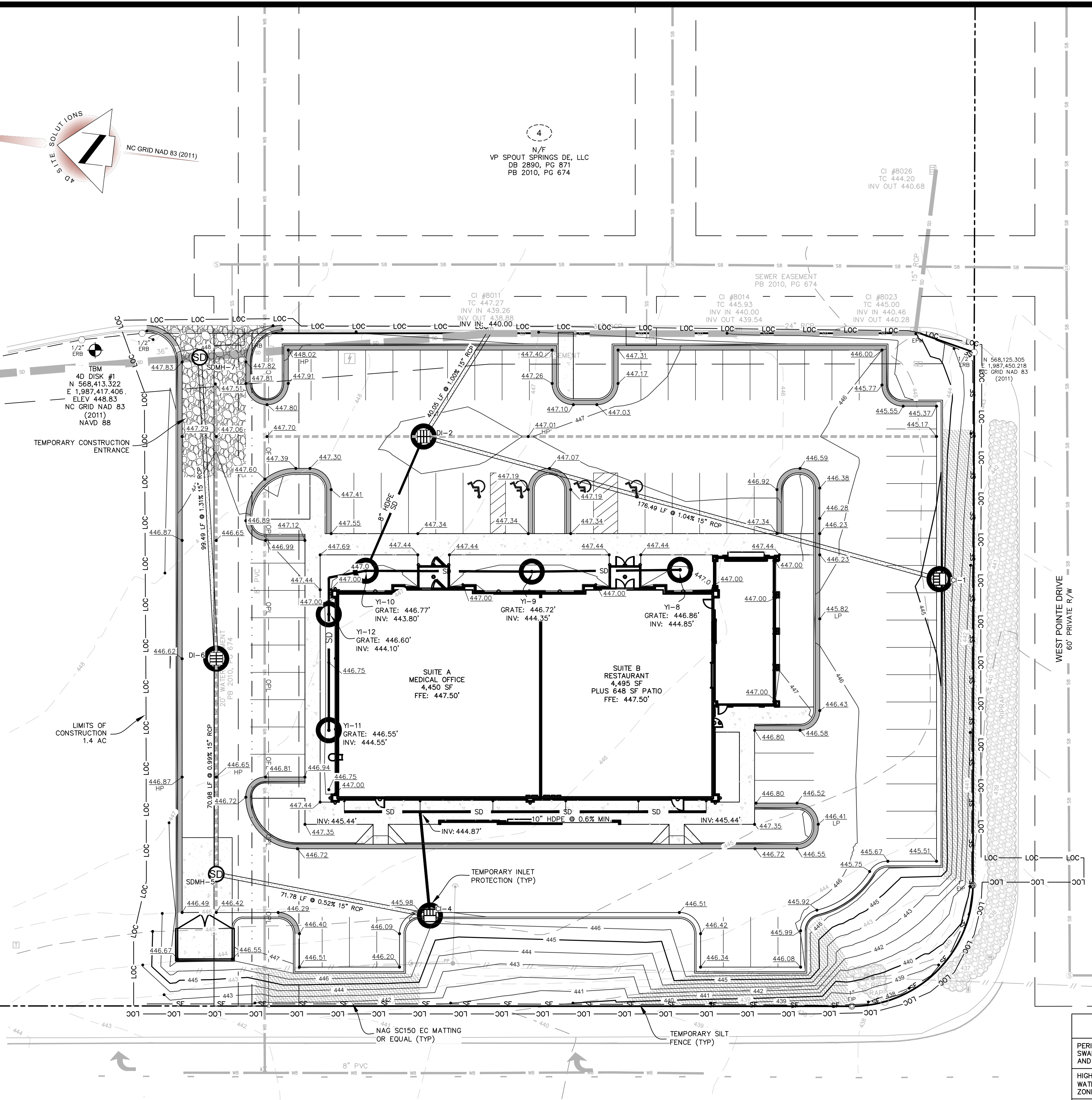


EROSION CONTROL NOTES

- ALL INLET/OUTLET PROTECTION WILL BE CHECKED FOR MAINTENANCE AND FAILURE EACH ACTIVE DAY ON SITE. SEDIMENT WILL BE REMOVED FROM THE INLET PROTECTION DEVICES WHEN THE STORAGE CAPACITY HAS BEEN APPROXIMATELY 50% FILLED. GRAVEL WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS PROPERLY. SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT BECOMES ABOUT 0.5' DEEP AT THE FENCE. THE SEDIMENT FENCE WILL BE REPAIRED AS NEEDED TO MAINTAIN A PROPER BARRIER.
- TEMPORARY EROSION CONTROL FACILITIES AND/OR PERMANENT FACILITIES INTENDED TO CONTROL EROSION OF AND EARTH DISTURBANCE OPERATION SHALL BE INSTALLED BEFORE ANY EARTH DISTURBANCE OPERATIONS TAKE PLACE OR AT THE EARLIEST POSSIBLE POINT DURING CONSTRUCTION.
- TEMPORARY & PERMANENT EROSION CONTROL MEASURES SHALL BE CONSTRUCTED PER THE DETAILS HEREIN, OR SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.
- THE CONTRACTOR MUST NOTIFY THE APPROPRIATE NCEQ OFFICE A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY LAND DISTURBING ACTIVITIES: 919-433-3300.
- REMOVE ALL SOILS AND SEDIMENTS TRACKED OR OTHERWISE DEPOSITED ONTO PUBLIC AND PRIVATE PAVEMENT AREAS. REMOVAL SHALL BE ON A DAILY BASIS WHEN TRACKING OCCURS.
- LOCATE SOIL STOCKPILES NO LESS THAN FIFTY (50) FEET FROM ANY PUBLIC OR PRIVATE ROADWAY OR DRAINAGE CHANNEL, IF REMAINING FOR MORE THAN SEVEN DAYS. STABILIZE THE STOCKPILES BY VEGETATIVE COVER, TARPS, OR OTHER MEANS. CONTROL EROSION FROM ALL STOCKPILES BY PLACING SILT BARRIERS AROUND THE PILES. TEMPORARY STOCKPILES LOCATED ON PAVED SURFACES MUST BE NO LESS THAN FIVE FEET FROM THE DRAINAGE/GUTTER LINE AND SHALL BE COVERED IF LEFT MORE THAN 24 HOURS.
- MAINTAIN ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES IN PLACE UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED. INSPECT TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES ON A DAILY BASIS AND REPLACE DETERIORATED, DAMAGED, OR ROTTED EROSION CONTROL DEVICES IMMEDIATELY.
- TEMPORARILY OR PERMANENTLY STABILIZE ALL DENuded AREAS WHICH HAVE BEEN FINISH GRADED, AND ALL DENuded AREAS IN WHICH GRADING OR SITE BUILDING CONSTRUCTION OPERATIONS ARE NOT ACTIVELY UNDERWAY AGAINST EROSION DUE TO RAIN, WIND AND RUNNING WATER WITHIN 14 DAYS. USE SEEDING AND MULCHING, EROSION CONTROL MATTING, AND/OR SOODING AND STAKING IN GREEN SPACE AREAS AND OTHERWISE APPROPRIATE MEASURES. USE EARLY APPLICATION OF GRAVEL BASE ON AREAS TO BE PAVED.
- DO NOT REMOVE ANY EROSION AND SEDIMENT CONTROL DEVICES AFTER THE PROTECTED AREA HAS UNDERGONE FINAL STABILIZATION AND PERMANENT VEGETATION HAS BEEN ESTABLISHED. IT IS RECOMMENDED THAT NCEQ APPROVE THE ACTION PRIOR TO REMOVAL.
- THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED CONCURRENTLY WITH THE INITIATION OF CONSTRUCTION ACTIVITY.
- THE INSTALLATION OF EROSION CONTROL MEASURES SHALL TAKE PRECEDENCE OVER ALL OTHER CONSTRUCTION ACTIVITIES.
- THE PERMITTEE SHALL BE HELD RESPONSIBLE FOR THE ACTIONS AND PERFORMANCE OF ALL OTHER PARTIES PERFORMING WORK ON THIS PROJECT.
- ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
- PURSUANT TO G.S. 113A-57(2), THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE THAT CAN BE MAINTAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION CONTROL DEVICES OR STRUCTURES. IN ANY EVENT, SLOPES LEFT EXPOSED WILL, WITHIN 7 OR 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING, BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY OR PERMANENT GROUND COVER, DEVICES OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION. PURSUANT TO G.S. 113A-57(3), PROVISIONS FOR PERMANENT GROUND COVER SUFFICIENT TO RETAIN EROSION MUST BE ACCOMPLISHED FOR ALL DISTURBED AREAS WITHIN 14 WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION DEVELOPMENT.
- CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL EROSION CONTROL MEASURES SHOWN AND ANY ADDITIONAL MEASURES REQUIRED TO CONTROL THE SEDIMENT DURING THE COURSE OF CONSTRUCTION.
- ALL SEEDED AREAS WILL BE FERTILIZED, RESEEDED AS NECESSARY, AND MULCHED ACCORDING TO THE DETAILS HEREIN.
- THE CONTACT PERSON FOR EROSION CONTROL ISSUES THAT ARISE ON SITE IS BRIAN DELONG. CONTACT 336-667-8000.

GRADING NOTES

- ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE BENCHMARK AND MUST BE VERIFIED BY THE GENERAL CONTRACTOR. SPOT ELEVATIONS ARE TO THE FINISHED GRADE OF THE CURB, UNLESS OTHERWISE NOTED.
- ALL SIDEWALKS AND PEDESTRIAN WALKING SURFACES SHALL HAVE A CROSS SLOPE NO STEEPER THAN 2% AND LONGITUDINAL SLOPE NO STEEPER THAN 5%.
- THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ALL LAND DISTURBING ACTIVITIES AND ENSURE COMPLIANCE WITH THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN. THE CONTRACTOR SHALL INSPECT AND MAINTAIN ALL EROSION CONTROL DEVICES AND CLEAR ANY DERRIS LEAVING THE SITE ON NEIGHBORING ROADS.
- EXISTING GROUND UPON WHICH FILL OR BASE IS TO BE PLACED SHALL BE CLEARED OF WEEDS, DEBRIS, TOPSOIL, AND ALL OTHER DELETERIOUS MATERIALS. NO FILL SHALL BE PLACED UNTIL PREPARATION OF THE EXISTING GROUND HAS BEEN COMPLETED.
- PROTECTIVE MEASURES SHALL BE TAKEN BY THE CONTRACTOR AND THE OWNER TO PROTECT ADJACENT PROPERTY, THE PUBLIC AND UTILITIES DURING GRADING OPERATIONS. THE CONTRACTOR ASSUMES ALL LIABILITY FOR THE UNDERGROUND UTILITY PIPES, CONDUITS, OR STRUCTURES, WHETHER SHOWN OR NOT ON THE PLAN.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES OR STRUCTURES ABOVE AND BELOW GROUND, SHOWN OR NOT SHOWN ON THESE PLANS. THEY WILL BE HELD RESPONSIBLE FOR ALL DAMAGE TO ANY UTILITIES OR STRUCTURES CAUSED BY HIS OPERATION.
- ALL CUT AND FILL SLOPES SHOULD BE INVESTIGATED BOTH DURING AND AFTER GRADING BY THE CONTRACTOR TO DETERMINE IF ANY SLOPE STABILITY PROBLEMS EXIST. IF IT IS DETERMINED THAT THERE IS A SLOPE STABILITY PROBLEM THE ENGINEER OF RECORD SHOULD BE NOTIFIED.
- STOCKPILE AREAS THAT WILL EXCEED 10' IN HEIGHT SHOULD BE GRADED WITH 3:1 SLOPES AND SURROUNDED BY SILT FENCE.
- APPROVED COPIES OF THE GRADING AND EROSION CONTROL PLANS SHALL BE ON THE PERMITTED SITE WHILE WORK IS IN PROGRESS.
- ALL EXISTING DRAINAGE COURSES THROUGH THIS SITE SHALL REMAIN IN A CONDITION SUCH THAT THEY CAN TRANSPORT THE NATURAL DRAINAGE UNTIL FACILITIES TO HANDLE THE STORM WATER ARE CONSTRUCTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DUE TO OBSTRUCTING NATURAL DRAINAGE PATTERNS.
- ANY DEVIATION FROM THE APPROVED GRADING PLANS SHOULD BE REPORTED TO THE ENGINEER OF RECORD PRIOR TO IMPLEMENTATION OF THE CHANGE.
- ALL SLOPES 3:1 OR STEEPER THAT EXCEED TEN FEET OR MORE SHALL BE LINED WITH NORTH AMERICAN GREEN S75 TEMPORARY EROSION CONTROL BLANKET OR EQUAL SUBSTITUTE.
- STORM PIPE DISTANCES SHOWN ARE TO THE CENTER OF THE BOX FOR ALL STRUCTURES UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL VERIFY LOCATIONS OF DOWNSPOUTS USING THE ARCHITECTURAL PLANS PRIOR TO CONSTRUCTION.



NOTIFICATION OF COMBINED SELF-MONITORING AND SELF-INSPECTION FORM:
THE SEDIMENTATION POLLUTION CONTROL ACT WAS AMENDED IN 2006 TO REQUIRE THAT PERSONS RESPONSIBLE FOR LAND-DISTURBING ACTIVITIES INSPECT A PROJECT AFTER EACH PHASE OF THE PROJECT TO MAKE SURE THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED. RULES DETAILING THE DOCUMENTATION OF THESE INSPECTIONS TOOK EFFECT OCTOBER 1, 2010.

TO SIMPLIFY DOCUMENTATION OF SELF-INSPECTION REPORTS AND NPDES SELF-MONITORING REPORTS, DWO AND DEMLR DEVELOPED A COMBINED FORM. THE SELF-INSPECTION PROGRAM IS SEPARATE FROM THE WEEKLY SELF-MONITORING PROGRAM OF THE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITIES. THE FOCUS OF THE INSPECTIONS SHOULD BE CONDUCTED AFTER EACH PHASE OF THE PROJECT, AND CONTINUED UNTIL PERMANENT GROUND COVER IS ESTABLISHED. THE FORM CAN BE ACCESSED AT: [HTTP://PORTAL.NCDCM.ORG/WEB/AR/EROSION](http://portal.ncdcm.org/WEB/AR/EROSION)

IF YOU HAVE QUESTIONS OR CANNOT ACCESS THE FORM, PLEASE CONTACT THE FAYETTEVILLE REGIONAL OFFICE AT (910) 433-3300.

- LEGEND:
- EPK - EXISTING IRON PIPE
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 - SANITARY SEWER MANHOLE
 - CLEANOUT
 - RIP RAP
 - ASPHALT



REVISIONS

PROJECT NAME

BUFFALO LAKE ROAD TRACT 3

GRADING AND EROSION CONTROL PLAN

CLIENT

VENTURE PROPERTIES

126 Executive Drive - Suite 200
Wilkesboro, North Carolina 28697
Phone: (336) 981-7126

PROJECT INFORMATION

| | |
|-----------------|-------|
| DESIGNED BY: | SCOTT |
| DRAWN BY: | SCOTT |
| CHECKED BY: | CHRIS |
| PROJECT NUMBER: | 1555 |

DRAWING SCALE

HORIZONTAL: 1"=20'

DATE RELEASED

JANUARY 7, 2020

SHEET NUMBER

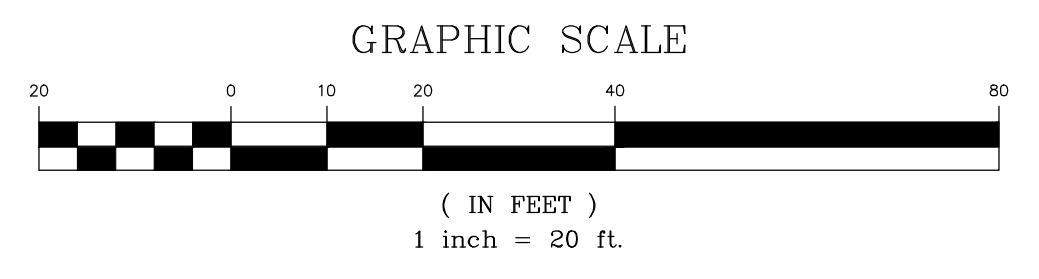
C-3.0

GROUND STABILIZATION CHART

| SITE AREA DESCRIPTION | STABILIZATION TIME FRAME | STABILIZATION TIME FRAME EXCEPTIONS |
|--|--------------------------|---|
| PERIMETER DIKES, SWALES, DITCHES AND SLOPES | 7 DAYS | NONE |
| HIGH QUALITY WATER (HOW) ZONES | 7 DAYS | NONE |
| SLOPES STEEPER THAN 3:1 | 7 DAYS | IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED |
| SLOPES 3:1 OR FLATTER | 14 DAYS | 7-DAYS FOR SLOPES GREATER THAN 50 FEET IN LENGTH |
| ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1 | 14 DAYS | NONE (EXCEPT FOR PERIMETERS AND HOW ZONES) |

CONSTRUCTION SEQUENCE

- OBTAIN ALL NECESSARY PERMITS AND APPROVALS AND HOLD PRE CONSTRUCTION CONFERENCE.
- INSTALL STONE CONSTRUCTION ENTRANCE AND TEMPORARY SILT FENCE WHERE SPECIFIED.
- CLEAR AND GRUB THE SITE AS NEEDED.
- ROUGH GRADE THE SITE AND APPLY TEMPORARY SEEDING TO AREAS REMAIN GRASSSED.
- INSTALL UTILITIES.
- INSTALL INLET PROTECTION ON ALL NEW STORM WATER INLETS.
- PERFORM FINE GRADING.
- INSTALL AND PREPARE BASE COURSE.
- PAVE ROADWAYS AND PARKING LOTS.
- FERTILIZE, SEED AND MULCH ALL REMAINING DISTURBED AREAS.
- UPON SITE STABILIZATION, SEEK NCEQ APPROVAL TO REMOVE ALL TEMPORARY MEASURES.
- ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED AS OUTLINED IN THE DETAILS WITHIN THE PLANS AND ACCORDING TO THE NCEQ EROSION CONTROL MANUAL.



THE CONTRACTOR MUST CONTACT NORTH CAROLINA ONE CALL CENTER AT 1-800-632-4949 A MINIMUM OF 72 HOURS PRIOR TO DIGGING IN ORDER TO HAVE THE EXISTING UTILITIES LOCATED



REVISIONS

PROJECT NAME

BUFFALO LAKE ROAD TRACT 3

UTILITY PLAN

PIN# 9586-78-3233.000

CLIENT

VENTURE PROPERTIES

126 Executive Drive - Suite 200
 Wilkesboro, North Carolina 28697
 Phone: (336) 981-7126

PROJECT INFORMATION

| | |
|-----------------|-------|
| DESIGNED BY: | SCOTT |
| DRAWN BY: | SCOTT |
| CHECKED BY: | CHRIS |
| PROJECT NUMBER: | 1555 |

DRAWING SCALE

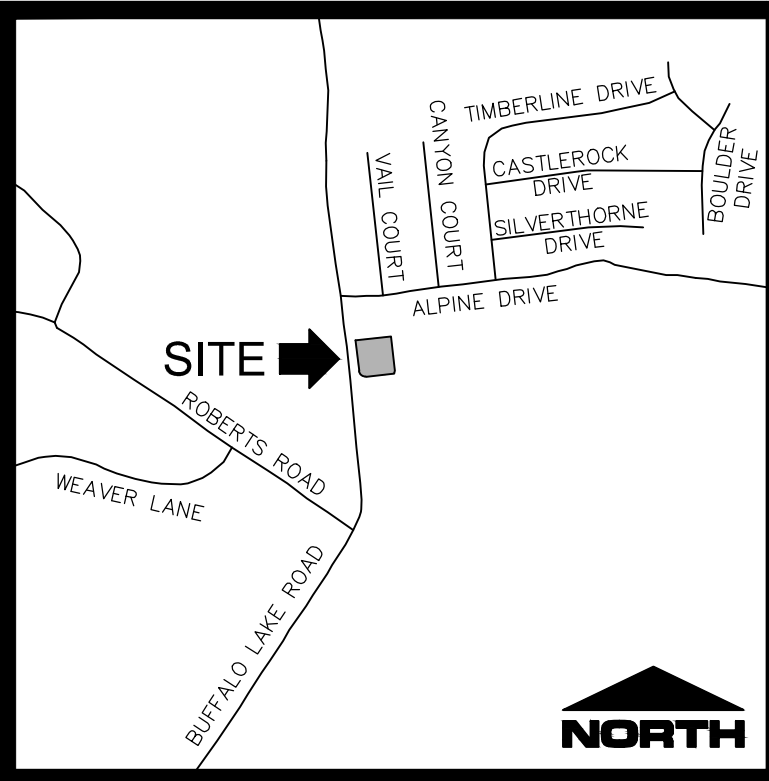
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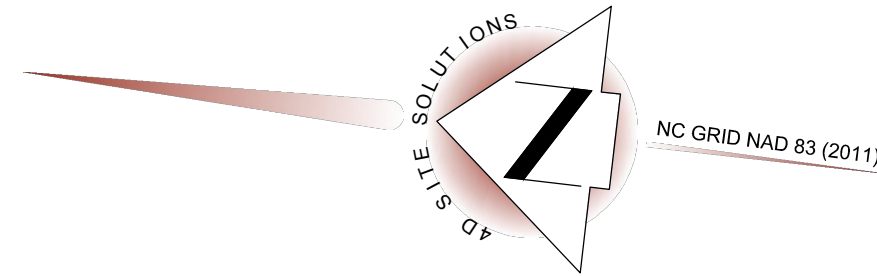
JANUARY 7, 2020

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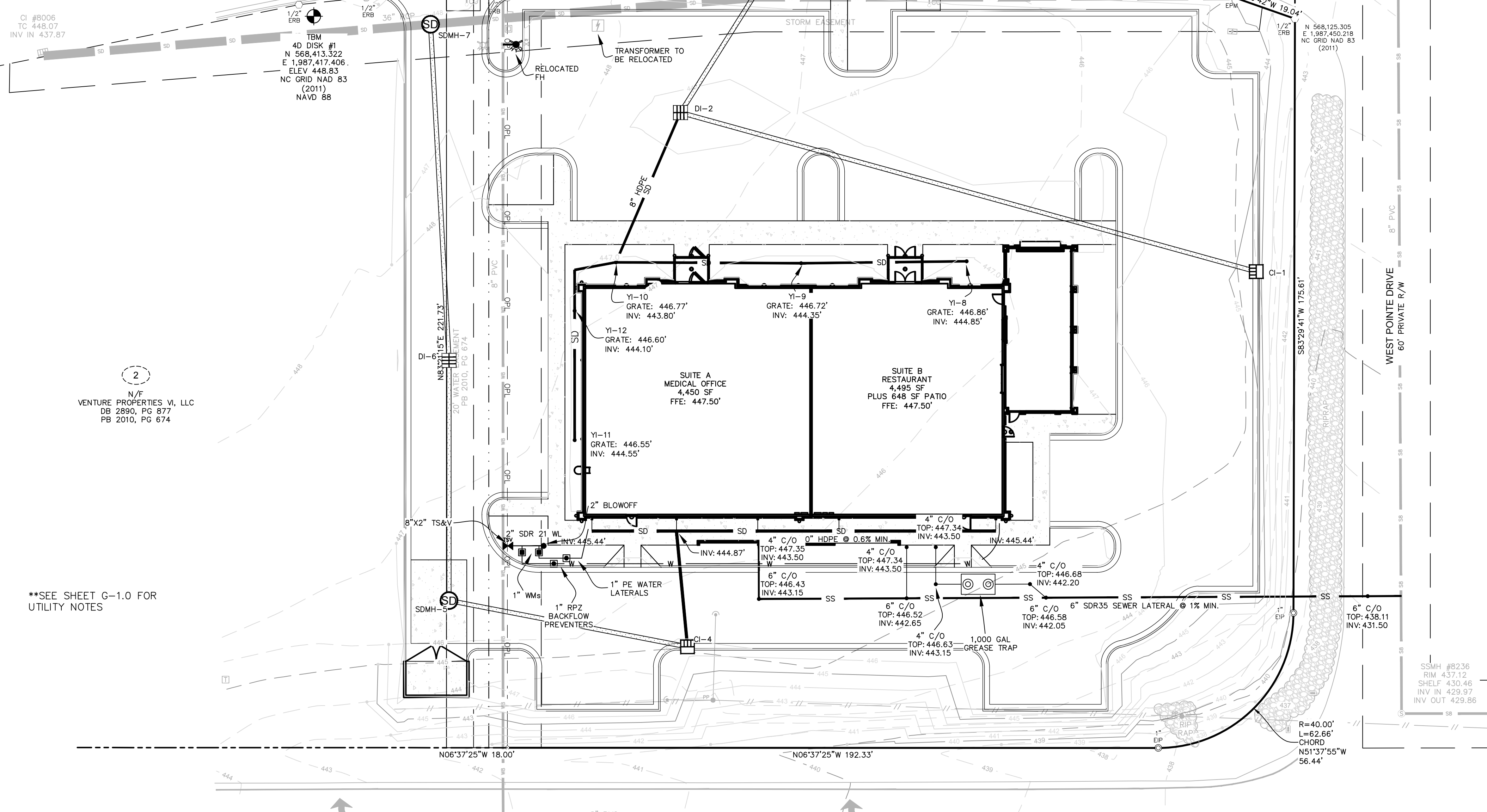
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VICINITY MAP
NOT TO SCALE

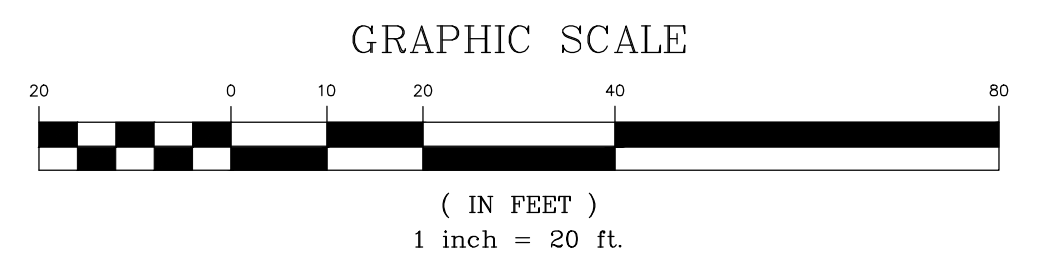


- LEGEND:**
- EPK-EXISTING IRON PIPE
 - EPK-EXISTING PK NAIL
 - EPM-EXISTING PAINT MARK
 - ERB-EXISTING REBAR
 - COMPUTED POINT
 - N/F - NOW OR FORMERLY
 - R/W - RIGHT OF WAY
 - PVC - POLYVINYL CHLORIDE
 - RCP - REINFORCED CONCRETE PIPE
 - PROPERTY LINE
 - ADJACENT PROPERTY LINE
 - RIGHT-OF-WAY
 - SETBACK LINE
 - SS - SANITARY SEWER LINE
 - SD - STORM DRAINAGE
 - W - WATER LINE
 - OVERHEAD UTILITY
 - PERMANENT EASEMENT
 - 445 - MAJOR CONTOUR
 - 442 - MINOR CONTOUR
 - 437.47' SPOT ELEVATION
 - BENCHMARK
 - SIGN
 - TRANSFORMER
 - UTILITY POLE
 - GUY WIRE
 - WATER VALVE
 - FIRE HYDRANT
 - WATER METER
 - BACK FLOW PREVENTER
 - CATCH BASIN
 - SANITARY SEWER MANHOLE
 - CLEANOUT
 - RIP RAP
 - ASPHALT



**SEE SHEET G-1.0 FOR UTILITY NOTES

**6" SEWER SERVICE LATERAL IS PRIVATE AND WILL BE MAINTAINED BY THE OWNER.
 ESTIMATED SEWER FLOW - 130 GPD/1000 SF * XXX SF - XXX GPD
 ESTIMATED WATER USAGE - XXX GPD



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REVISIONS

PROJECT NAME

**BUFFALO
 LAKE ROAD
 TRACT 3**

STORM PROFILE

CLIENT

**VENTURE
 PROPERTIES**

126 Executive Drive - Suite 200
 Wilkesboro, North Carolina 28697
 Phone: (336) 981-7126

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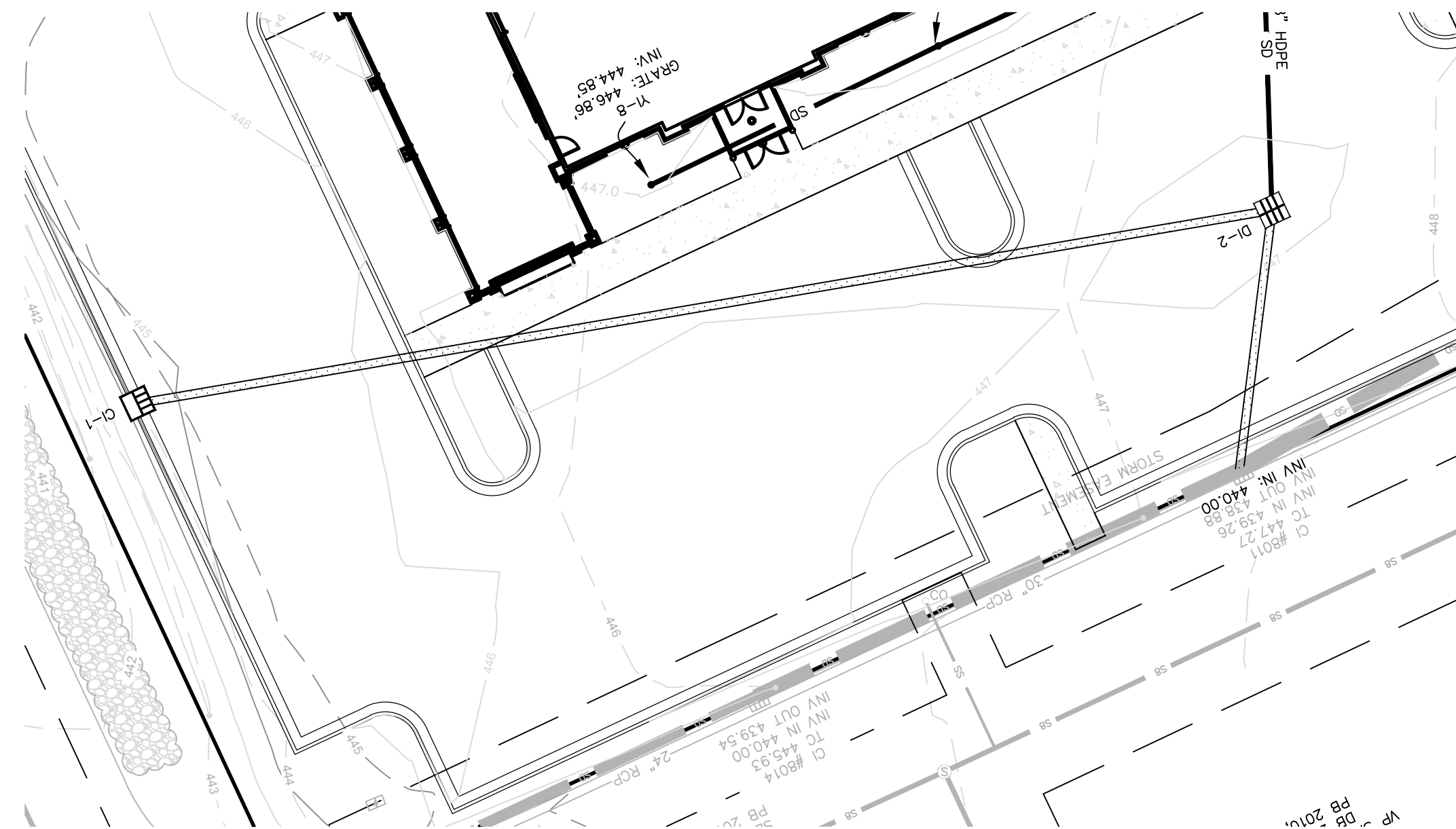
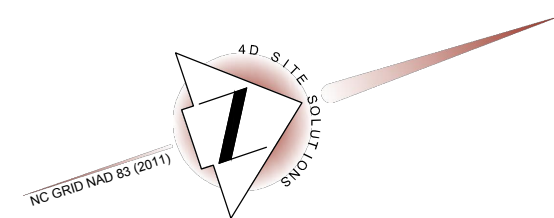
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DATE RELEASED

JANUARY 7, 2020

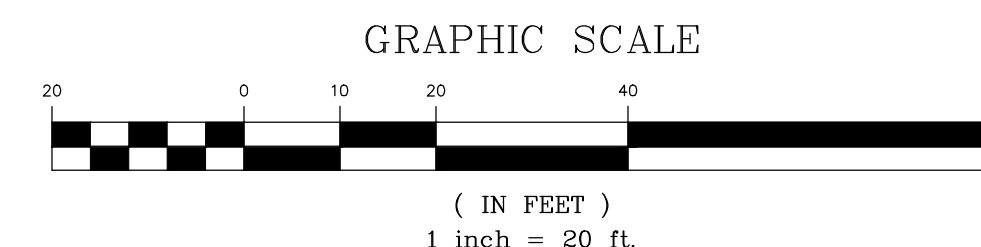
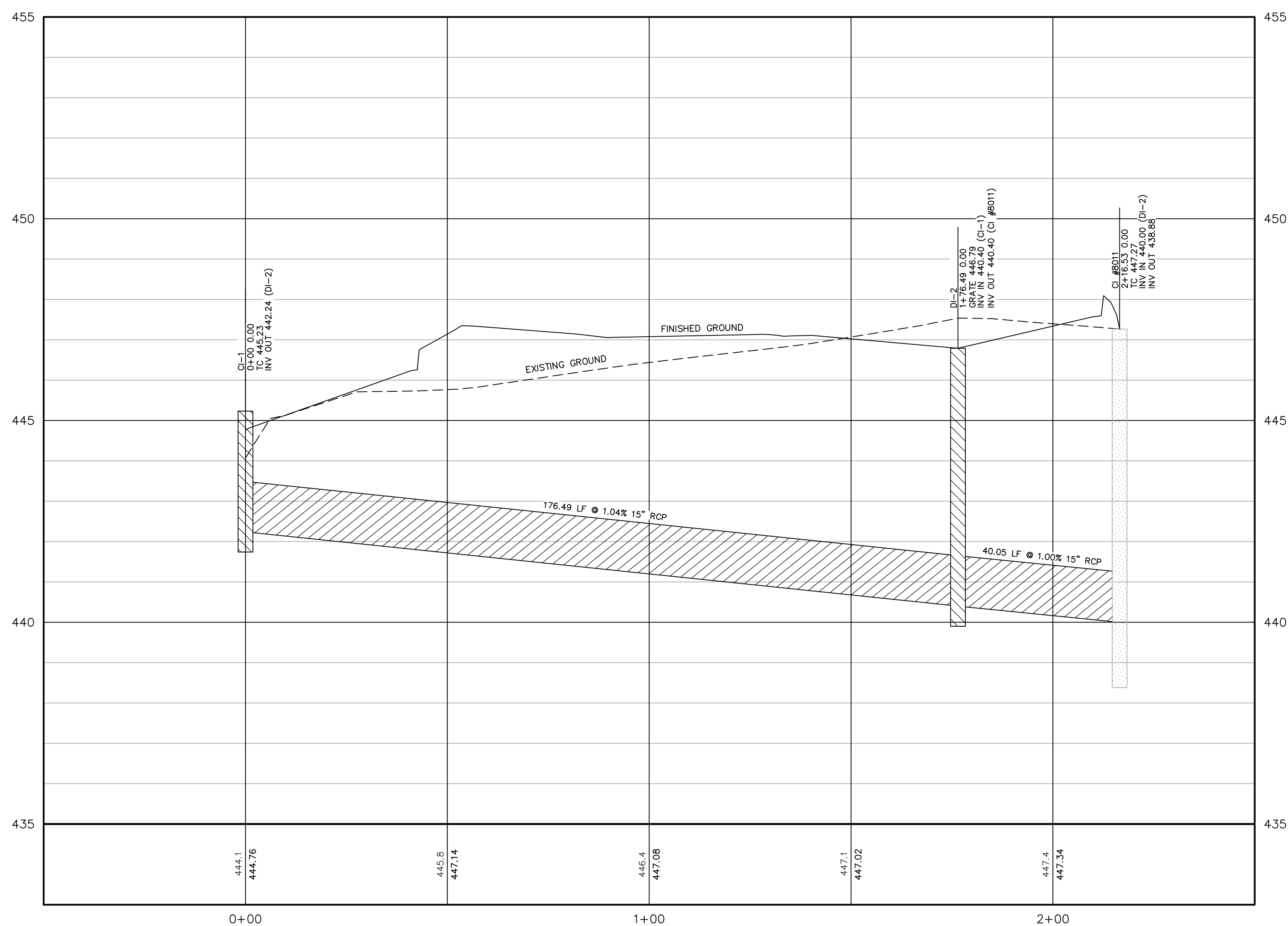
SHEET NUMBER

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CI-1 TO CI #8011

STORM DRAIN -0+50 TO 2+50





REVISIONS

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**BUFFALO
 LAKE ROAD
 TRACT 3**

STORM PROFILE

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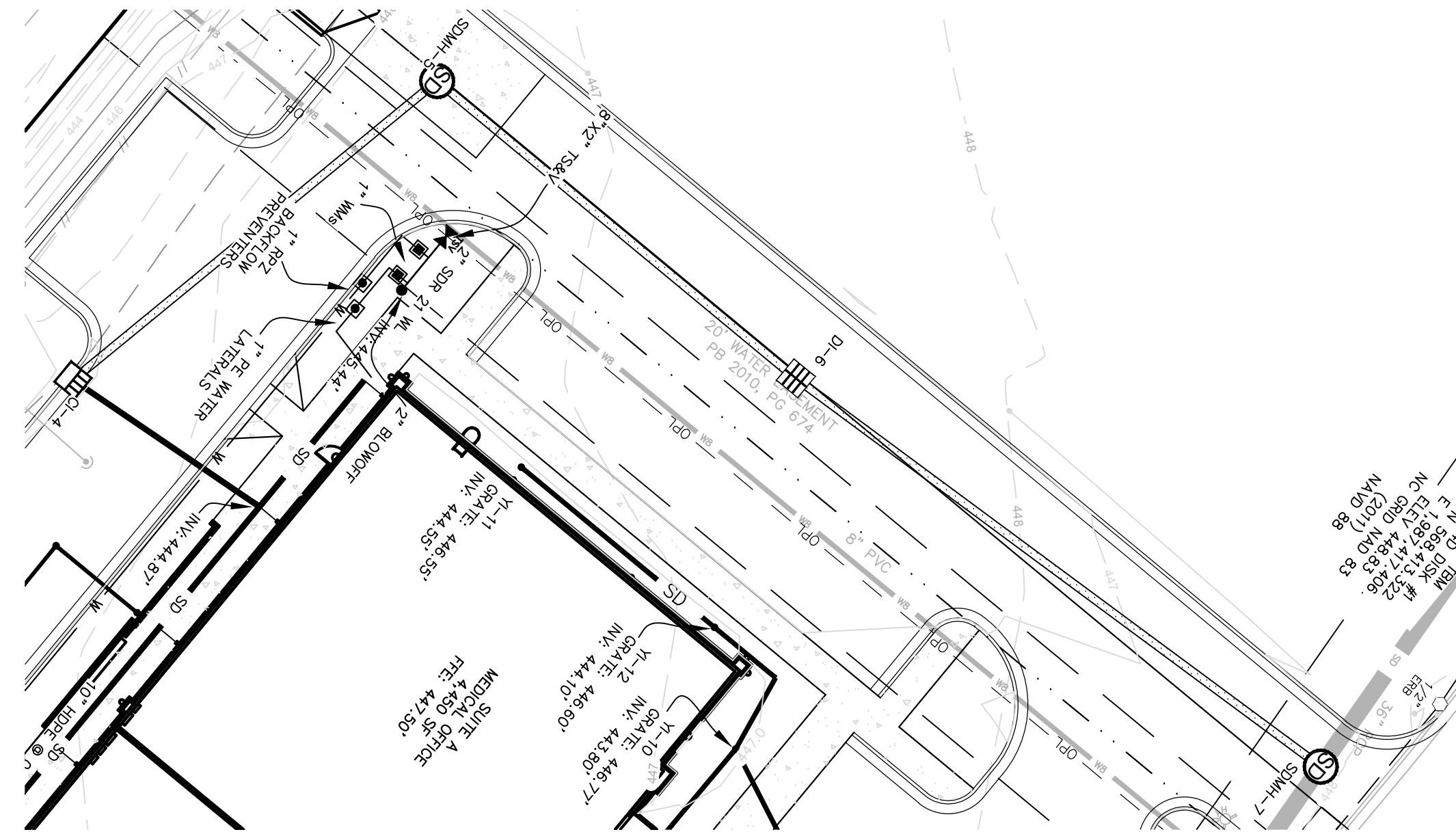
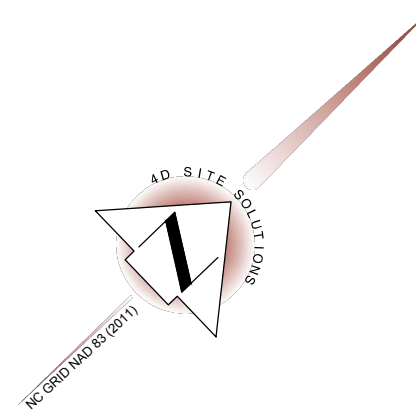
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DATE RELEASED

JANUARY 7, 2020

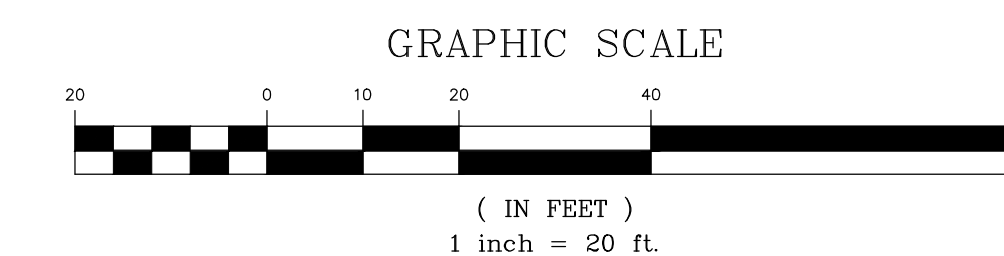
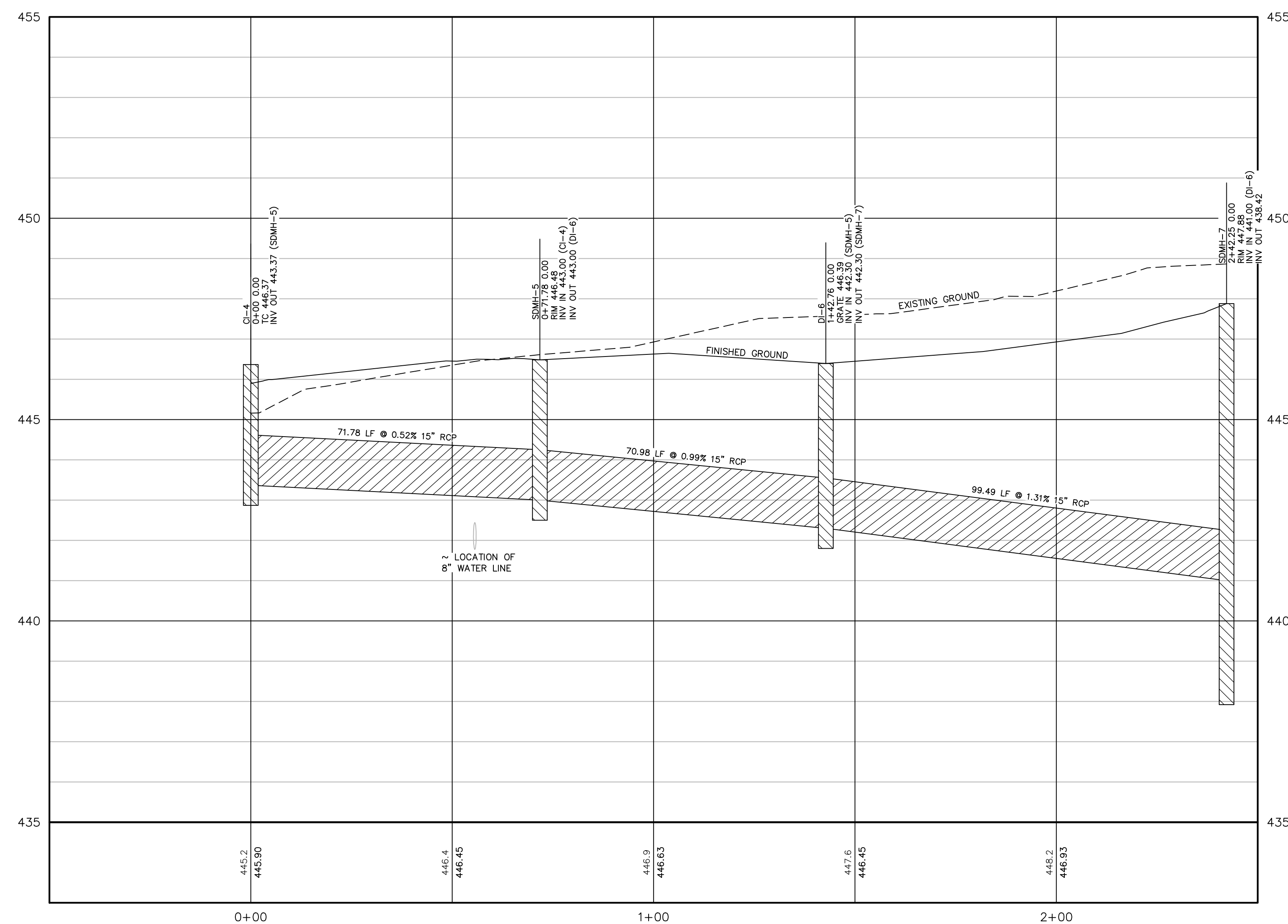
SHEET NUMBER

C-5.1



CI-4 TO SDMH-7

STORM DRAIN -0+50 TO 2+50





REVISIONS

PROJECT NAME

BUFFALO LAKE ROAD TRACT 3

SITE DETAILS

CLIENT

VENTURE PROPERTIES

126 Executive Drive - Suite 200
 Wilkesboro, North Carolina 28687
 Phone: (336) 981-7126

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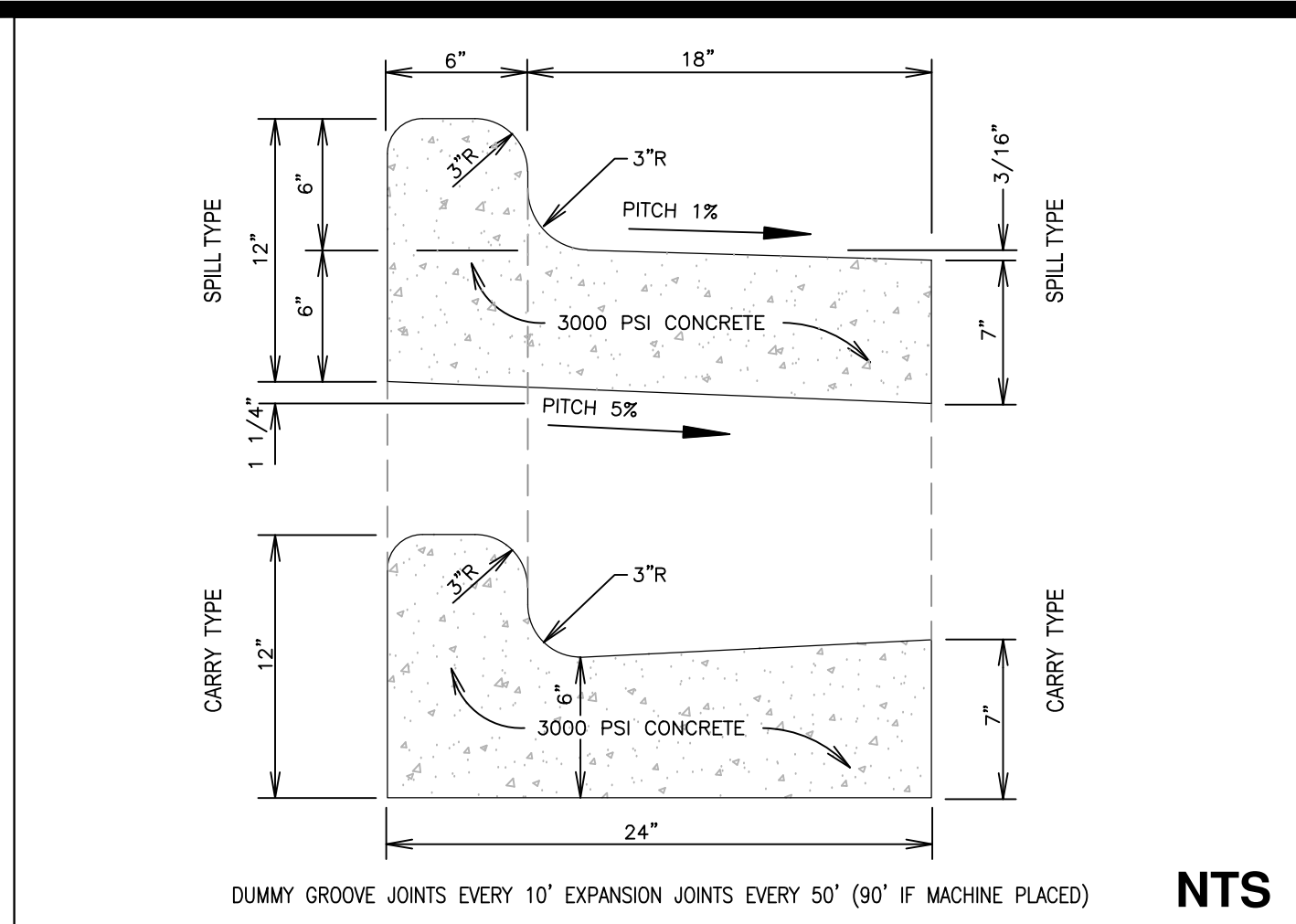
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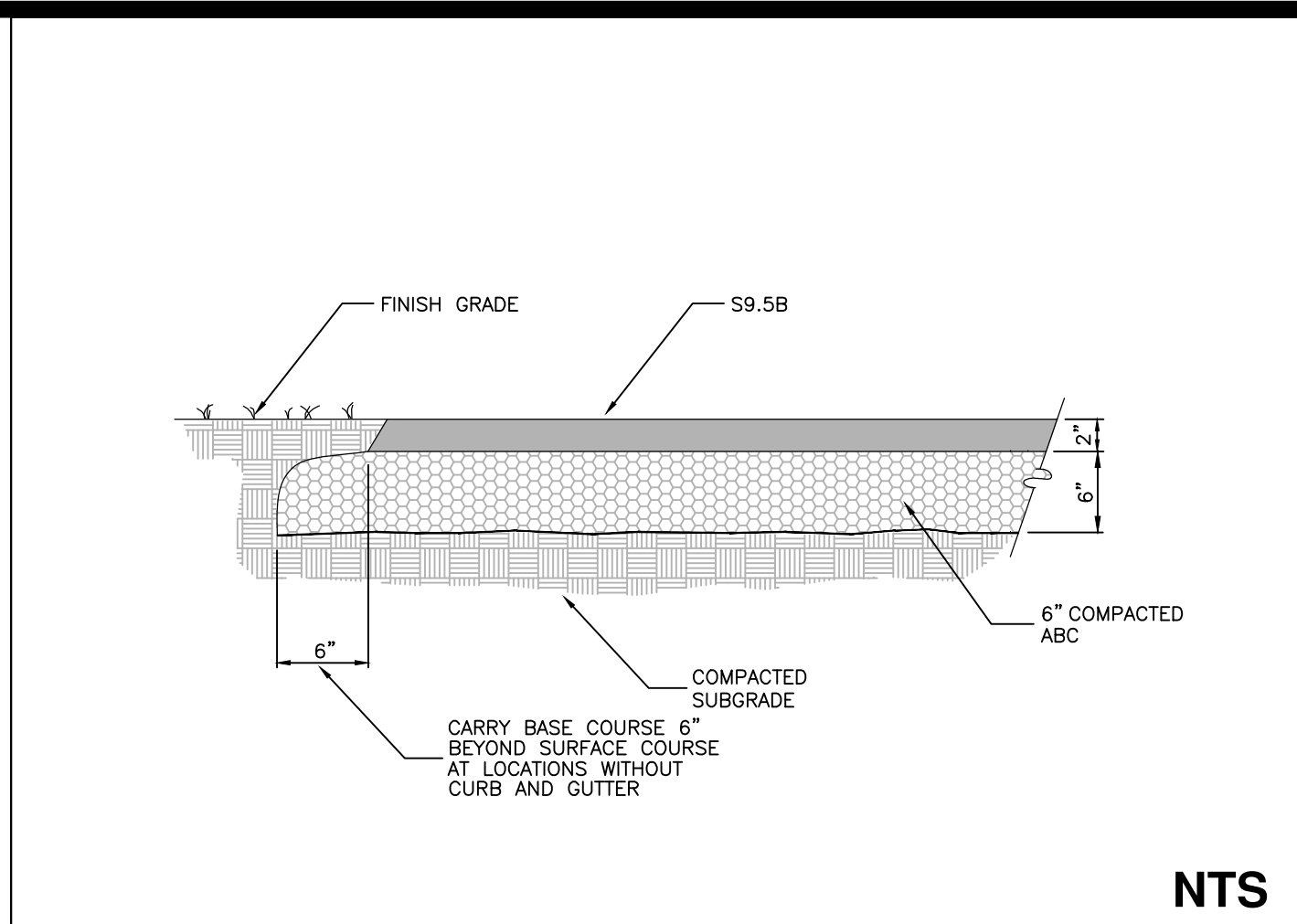
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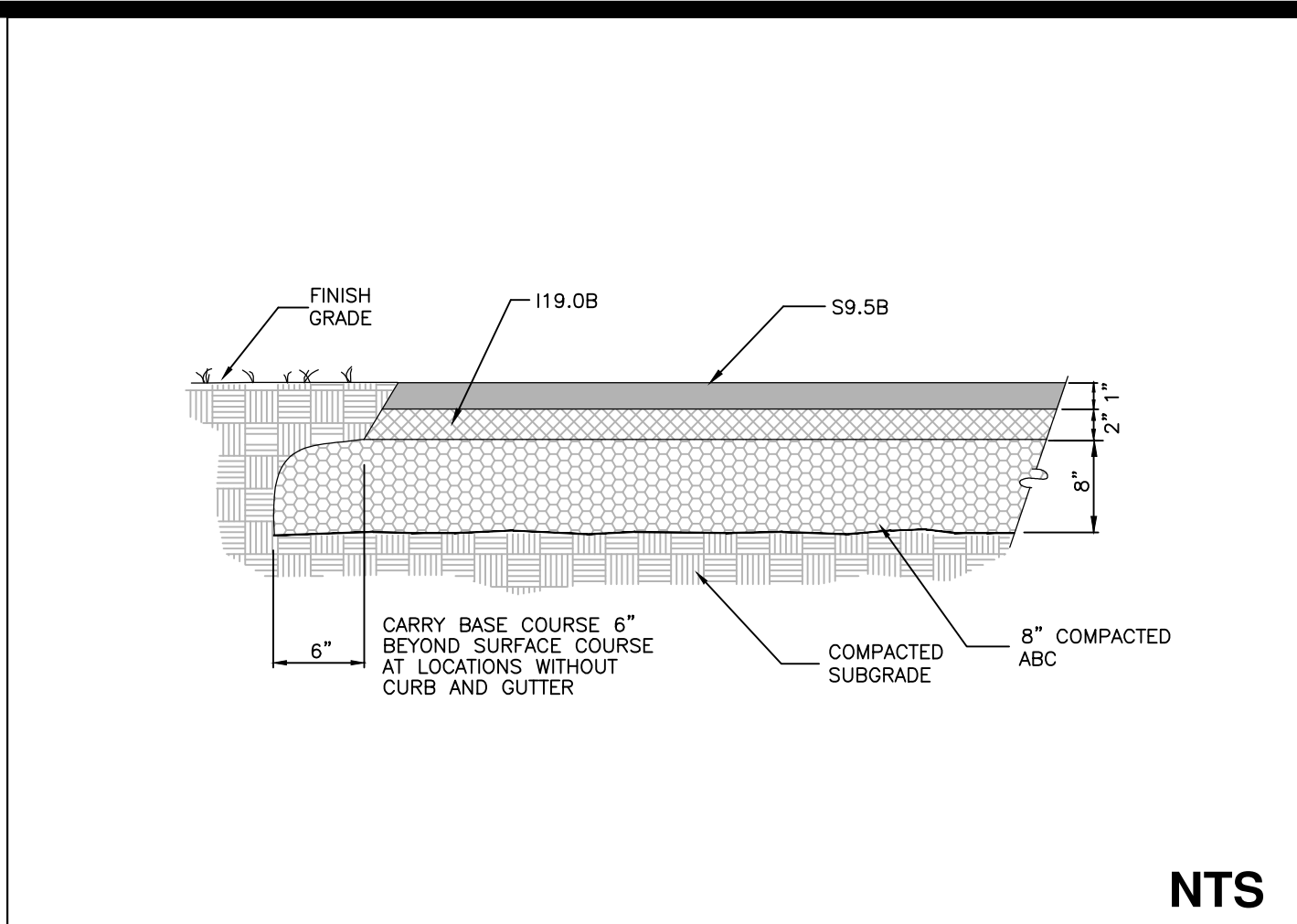
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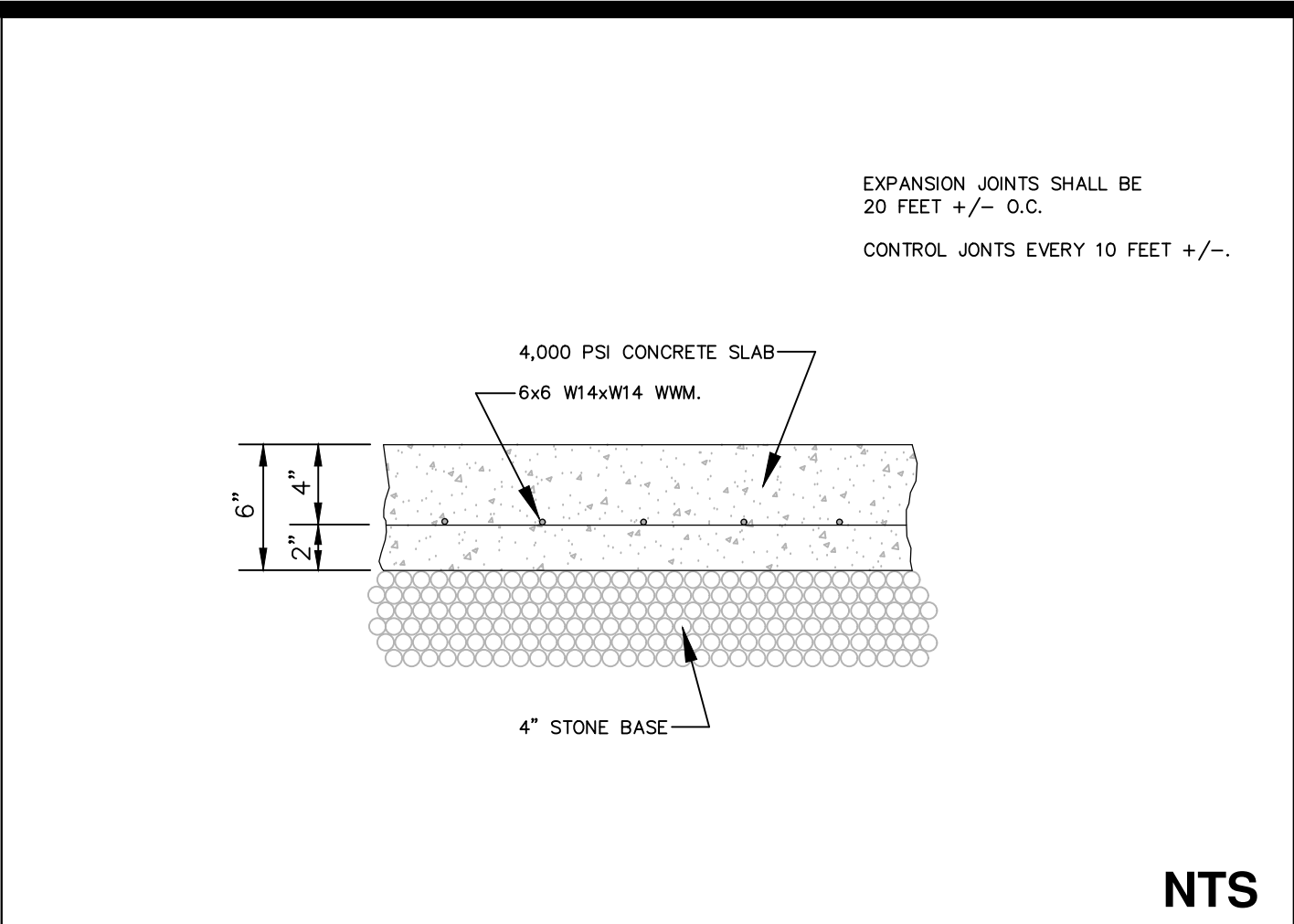
1 24" CURB & GUTTER



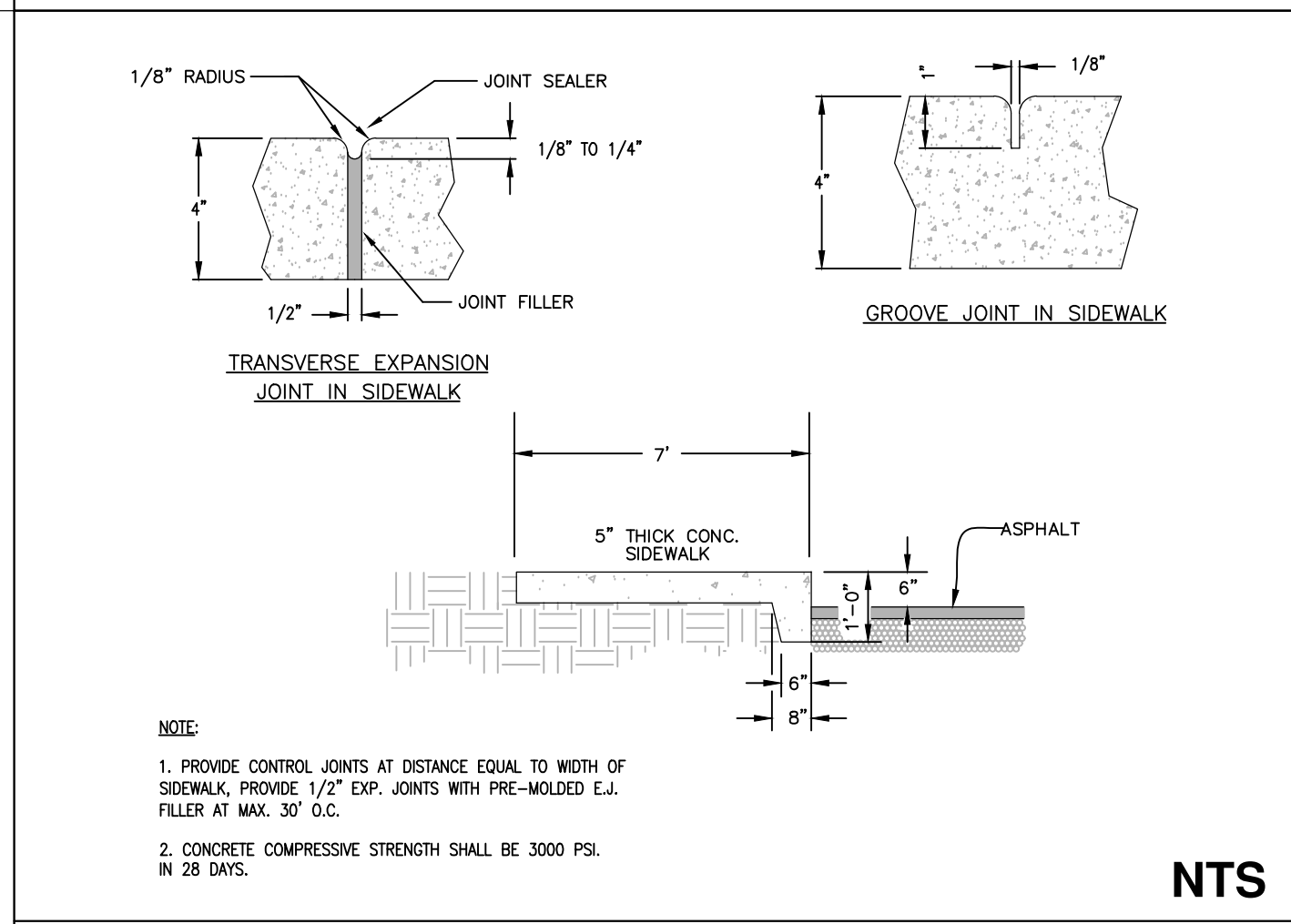
2 LIGHT DUTY PAVEMENT



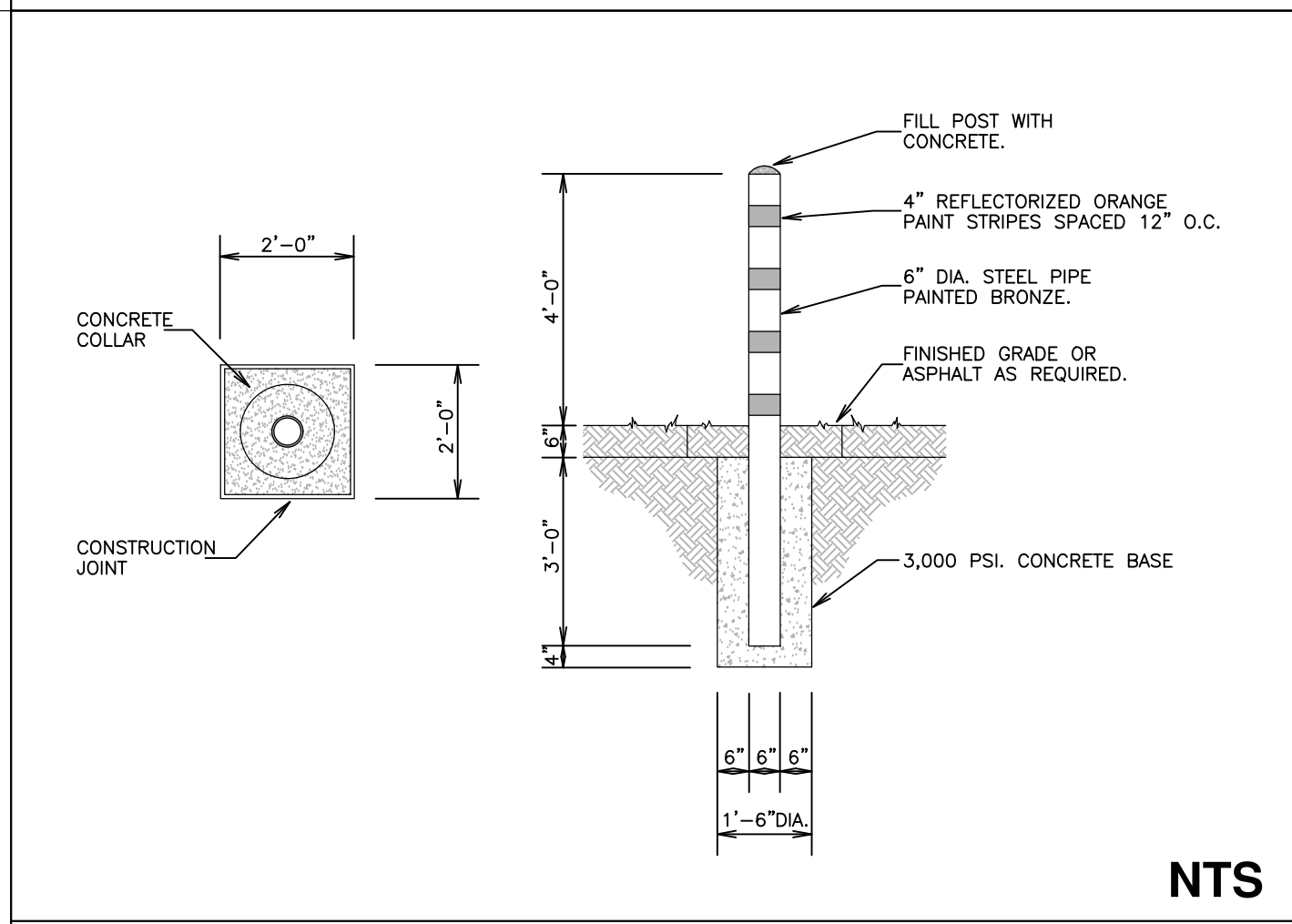
3 HEAVY DUTY PAVEMENT



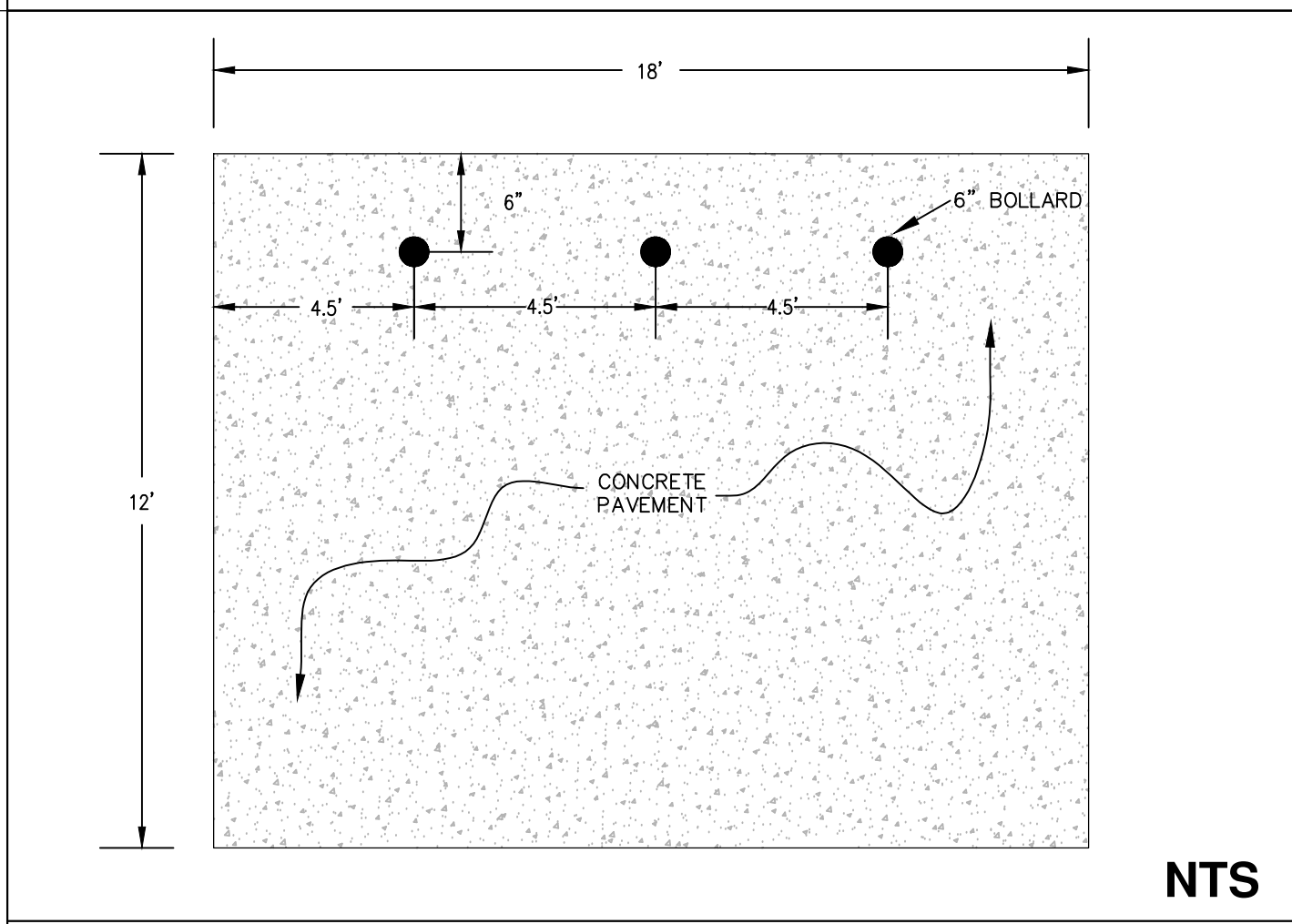
4 CONCRETE DRIVE PAVEMENT SECTION



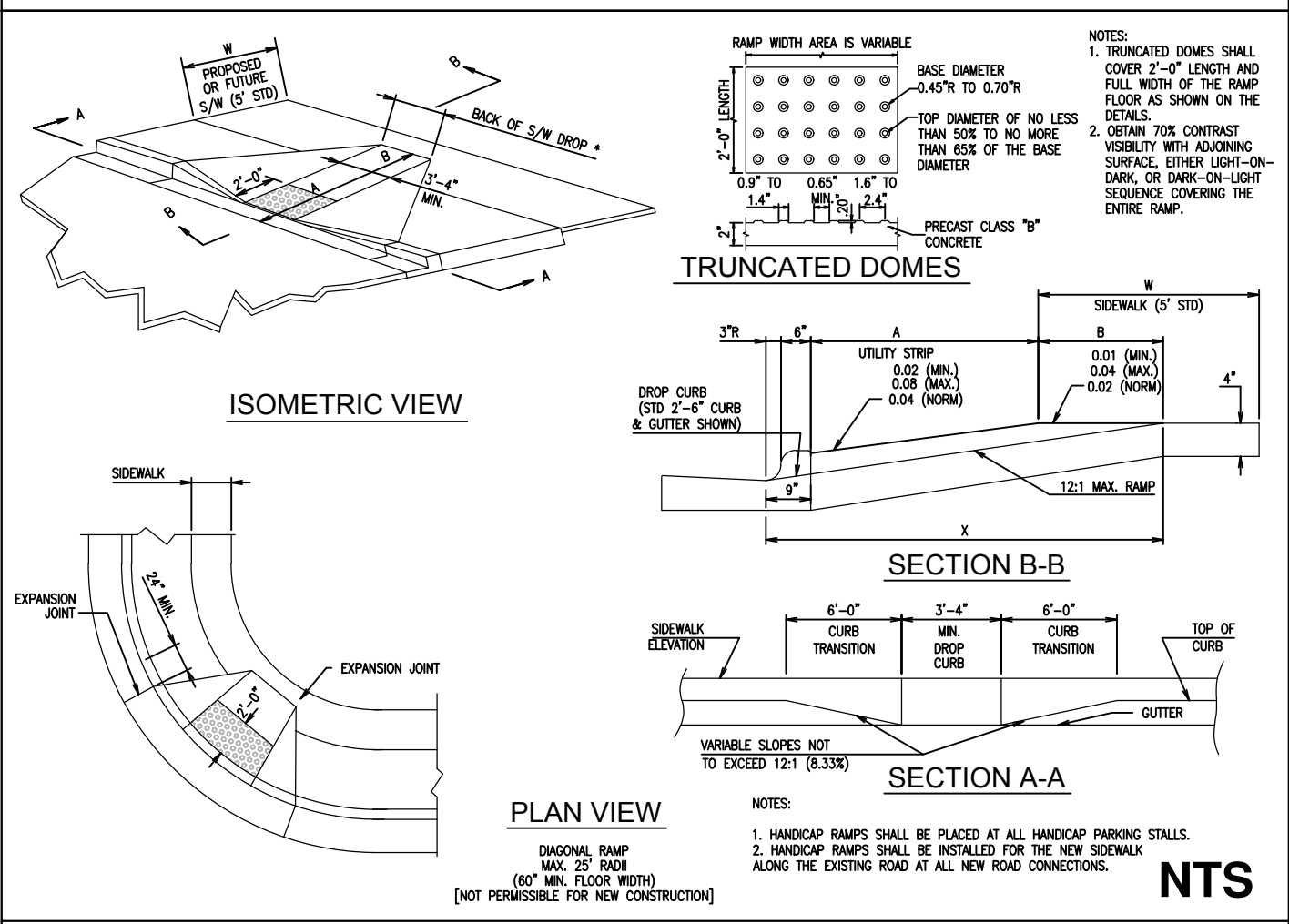
5 TURN DOWN SIDEWALK



6 6\"/>



7 DUMPSTER PAD



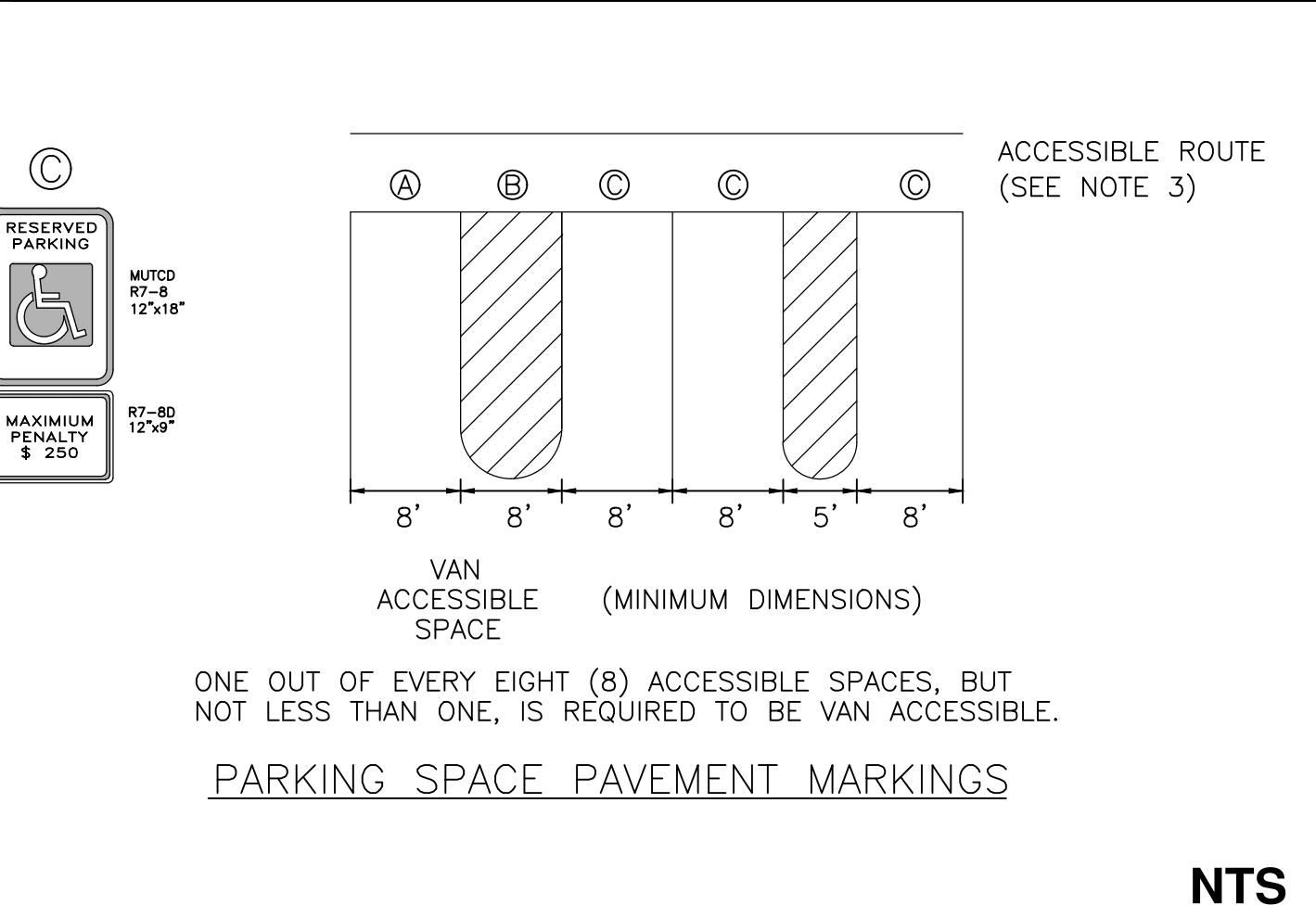
8 HANDICAP RAMP WITH TRUNCATED DOMES

ACCESSIBLE PARKING REQUIREMENTS

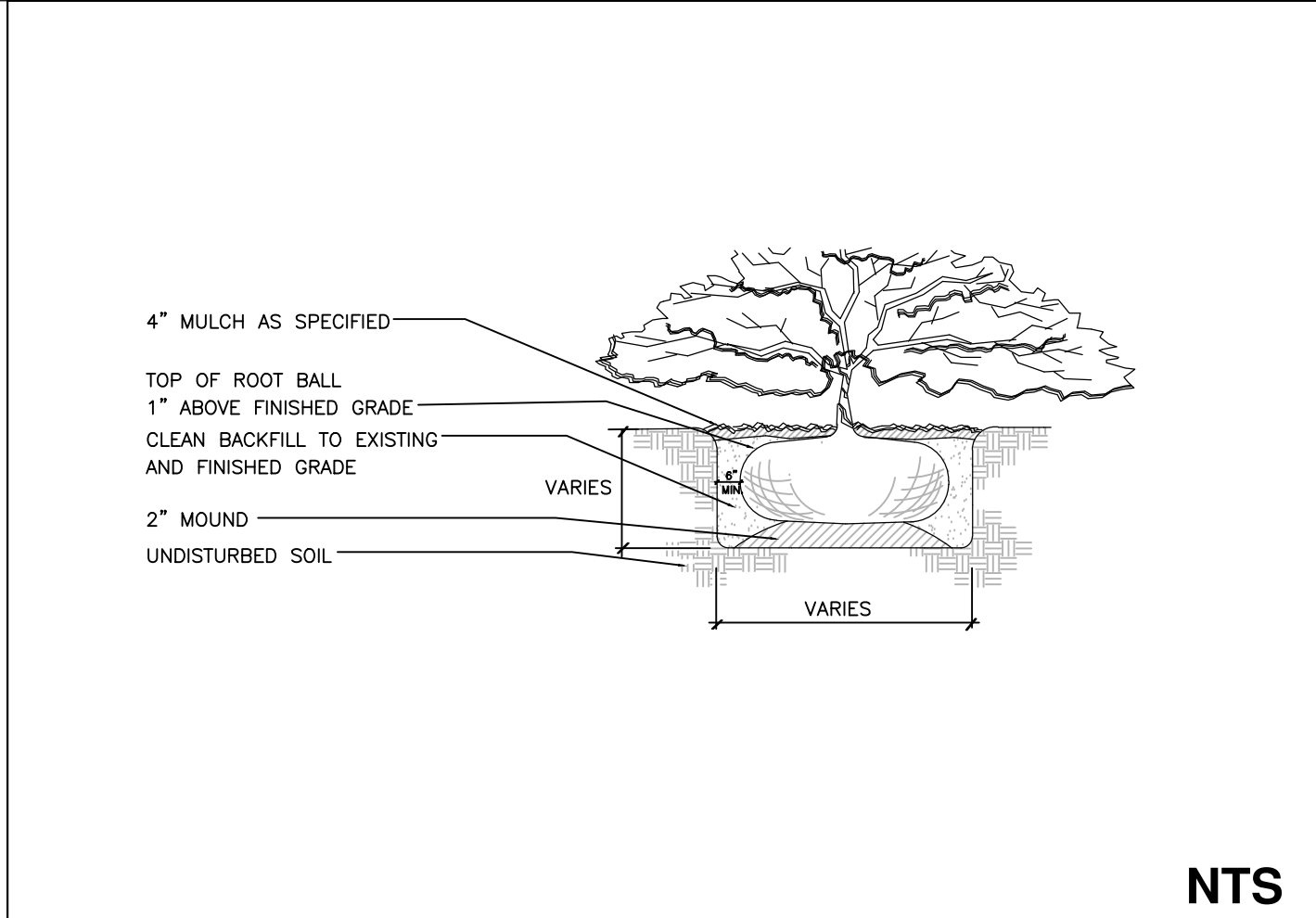
| TOTAL PARKING SPACES PROVIDED | MINIMUM NUMBER OF ACCESSIBLE SPACES REQUIRED | MINIMUM NUMBER OF ACCESSIBLE SPACES REQUIRED TO BE VAN ACCESSIBLE |
|-------------------------------|--|---|
| 1 TO 25 | 1 | 1 |
| 26 TO 50 | 2 | 1 |
| 51 TO 75 | 3 | 1 |
| 76 TO 100 | 4 | 1 |
| 101 TO 150 | 5 | 1 |
| 151 TO 200 | 6 | 1 |
| 201 TO 300 | 7 | 1 |
| 301 TO 400 | 8 | 1 |
| 401 TO 500 | 9 | 2 |
| 501 TO 1000 | 2% OF TOTAL | 1 IN EVERY 8 ACCESSIBLE SPACES |
| 1001 AND OVER | 2% PLUS 1 FOR EACH 100 OVER 1000 | 1 IN EVERY 8 ACCESSIBLE SPACES |

SECTION 4.1.2 (5) OF THE AMERICANS WITH DISABILITIES ACT (ADA), SEE 4.1.2.(5) (6) FOR MEDICAL CARE FACILITIES

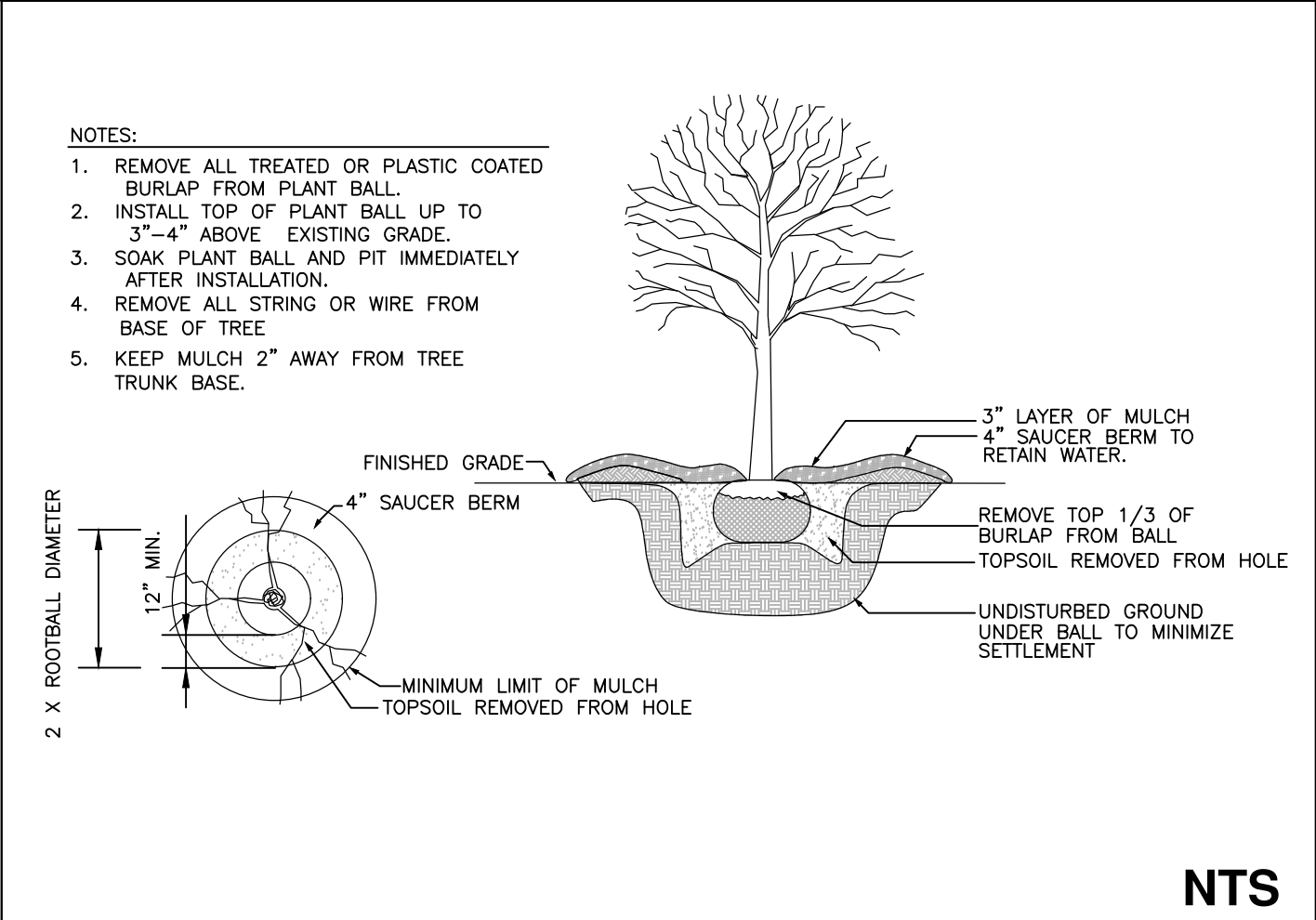
NOTES:
 1. ALL 12"x18" ACCESSIBLE SIGNS (R7-8 & R7-1) SHALL BE MOUNTED AT 7 FEET FROM GRADE TO BOTTOM EDGE OF SIGN FACE (MUTUAL). MOUNTING HEIGHT CAN BE REDUCED TO 5 FEET IF PLACED IN AN AREA BETWEEN SIDEWALK AND BUILDING FACE IN WHICH PEDESTRIANS ARE NOT EXPECTED TO USE.
 2. REFER TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (MUTCD), U.S. DEPARTMENT OF TRANSPORTATION AND NORTH CAROLINA DEPARTMENT OF TRANSPORTATION SUPPLEMENT.
 3. IF ACCESSIBLE ROUTE IS A RAMPED SIDEWALK AREA, THEN RAMP ARE REQUIRED AT LOADING ZONE AREA.
 4. ALL DIMENSIONS, PAVEMENT MARKINGS AND SIGNAGE SHALL COMPLY WITH CURRENT ADA REQUIREMENTS.



9 HANDICAP SIGNAGE AND PAVEMENT MARKINGS



10 SHRUB PLANTING



11 TREE PLANTING

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REVISIONS

PROJECT NAME

BUFFALO LAKE ROAD TRACT 3

EROSION CONTROL DETAILS

CLIENT

VENTURE PROPERTIES

126 Executive Drive - Suite 200
Wilkesboro, North Carolina 28687
Phone: (336) 981-7126

PROJECT INFORMATION

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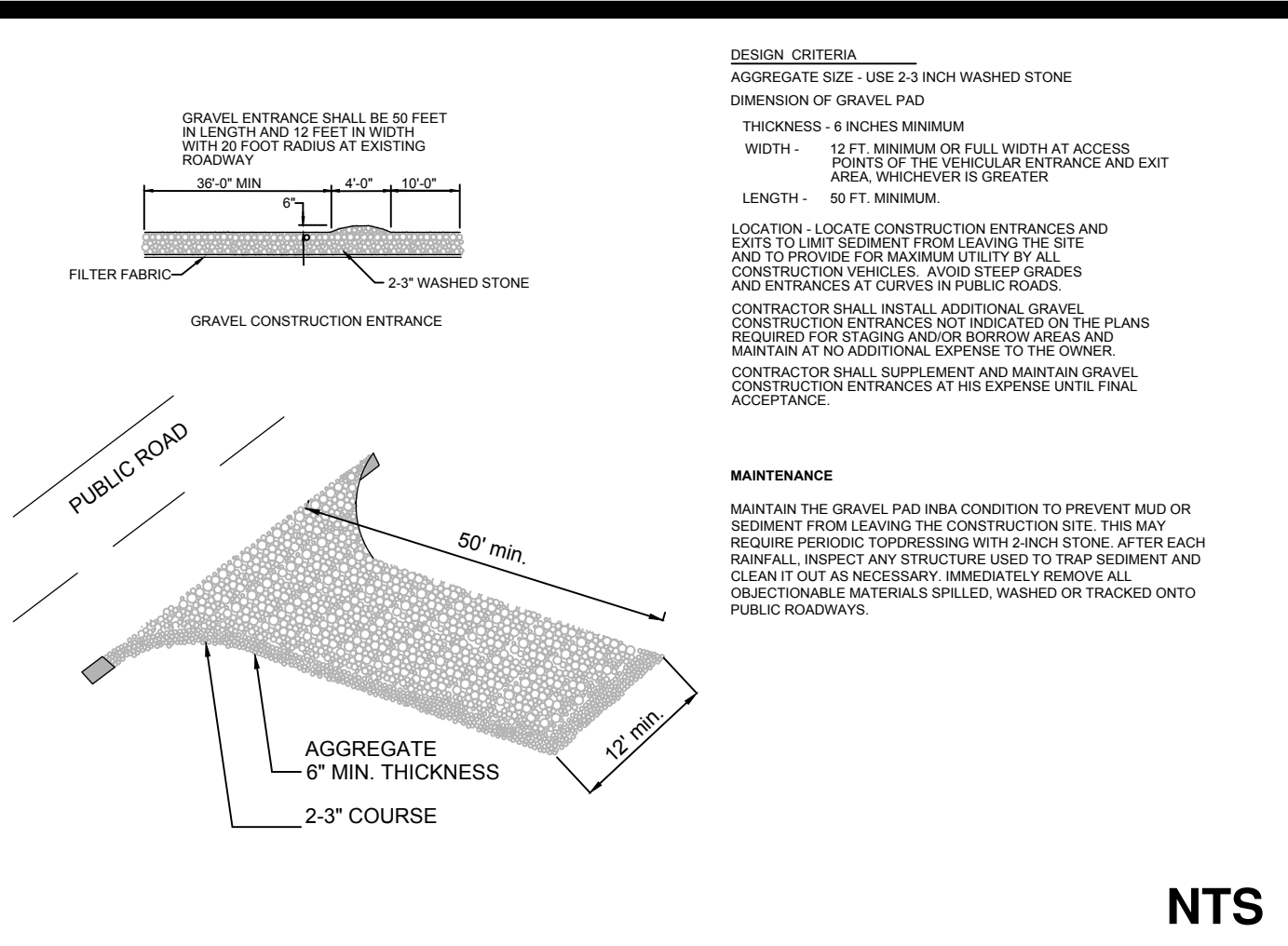
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DATE RELEASED

JANUARY 7, 2020

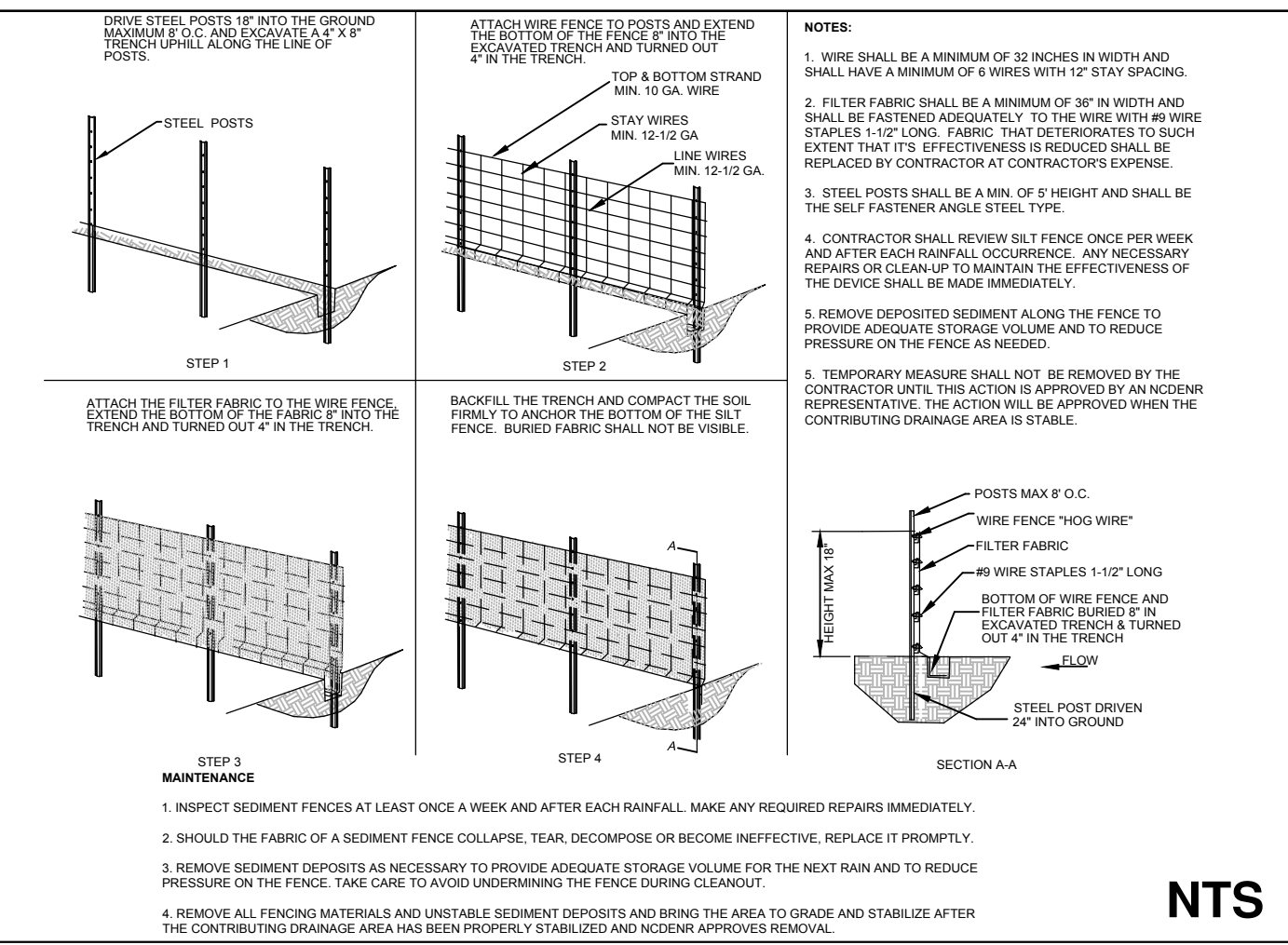
SHEET NUMBER

C-6.1



NTS

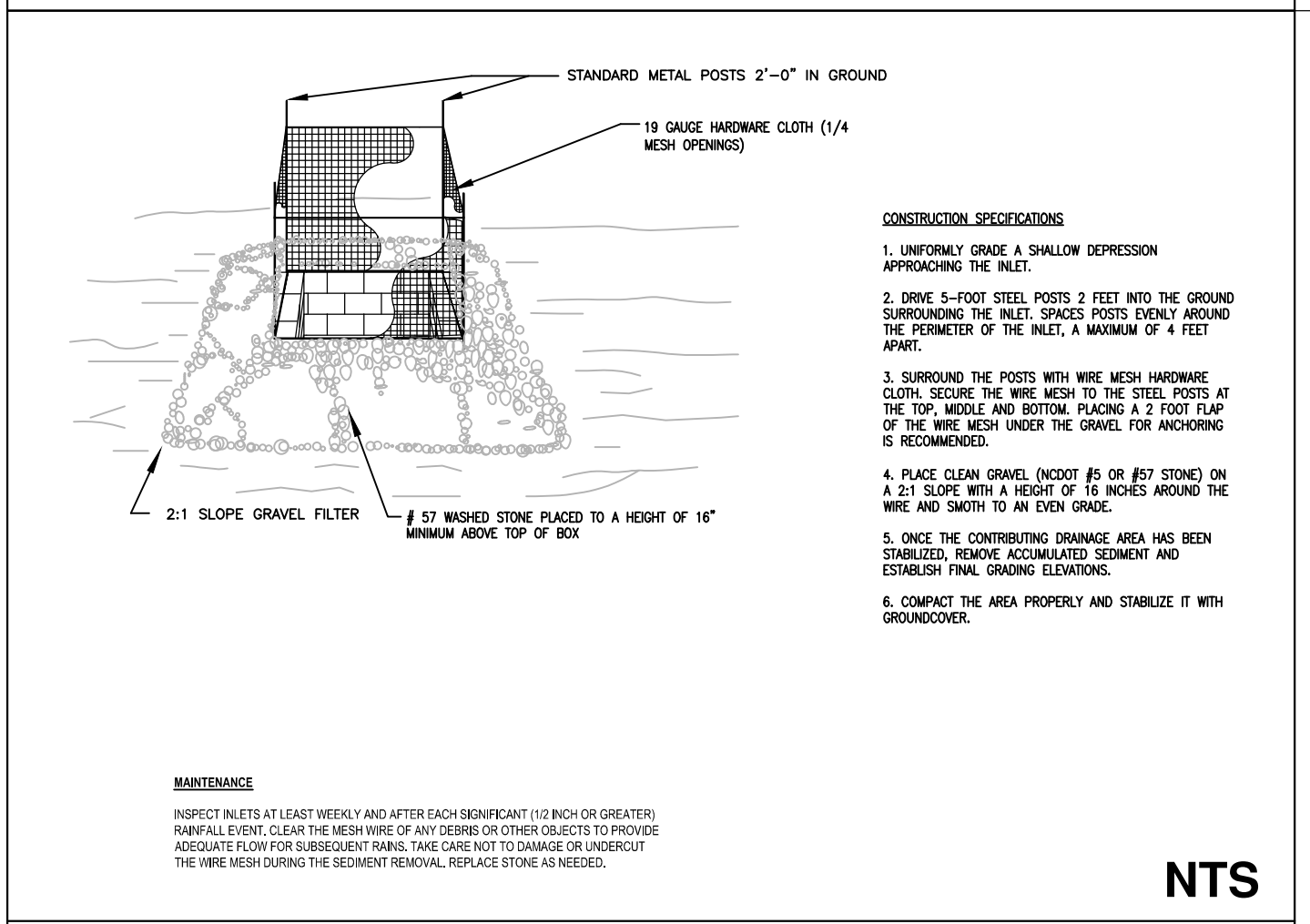
4 TEMPORARY GRAVEL CONSTRUCTION ENTRANCE



NTS

1. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL HANDBOOK.
2. THE CONTRACTOR SHALL NOTIFY PLAN APPROVING AUTHORITY ONE WEEK PRIOR TO THE PRECONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO FINAL INSPECTION.
3. IF POSSIBLE ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO CLEARING AND/OR LAND DISTURBANCE.
4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND PERMIT SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
5. PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO OFF-SITE BORROW OR WASTE AREAS, STAGING OR STORAGE AREAS), THE CONTRACTOR SHALL PREPARE AND SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND TO NCDNR REGIONAL OFFICE FOR APPROVAL. CONTRACTOR SHALL PAY ALL FEES REQUIRED AND SHALL INSTALL NECESSARY MEASURES AT HIS SEPARATE PAYMENT. THE CONTRACTOR SHALL PROVIDE THE OWNER AND THE ENGINEER A COPY OF THE AMENDED PERMIT.
6. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY EITHER NCDNR OR THE ENGINEER.
7. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
8. ALL AREAS DISTURBED BY CONSTRUCTION UNLESS OTHERWISE IMPROVED SHALL BE SOODED OR SEEDED AS INDICATED AND STABILIZED.
9. DURING DEWATERING OPERATIONS, WATER SHALL BE PUMPED INTO AN APPROVED FILTERING DEVICE PRIOR TO DISCHARGE TO RECEIVING OUTLET.
10. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES WEEKLY AND AFTER EACH RAINFALL-PRODUCING EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.
11. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED BY CONTRACTOR ONCE STABILIZATION OF A SUFFICIENT GROUND COVER HAS BEEN ESTABLISHED OR AS DIRECTED BY THE ENGINEER. NCDNR'S FINAL APPROVAL IS REQUIRED.
12. TEMPORARY GRAVEL CONSTRUCTION ENTRANCE SHALL BE REQUIRED AT ALL CONSTRUCTION STAGING AREA ENTRANCES AND ALL CONSTRUCTION ACCESS LOCATIONS INTO NON-PAVED AREAS. WHEN CROSSING CREEK OR DRAINAGE WAY, THE CONTRACTOR SHALL RIP-RAP WITH FABRIC DISTURBED BANKS AND CHANNEL AND RESTORE SLOPES TO ORIGINAL CONTOURS, BUT NOT STEEPER THAN 2:1 MAXIMUM. DISTURBED CREEK AREA SHALL BE STABILIZED IMMEDIATELY.

3 GENERAL EROSION AND SEDIMENT CONTROL NOTES



NTS

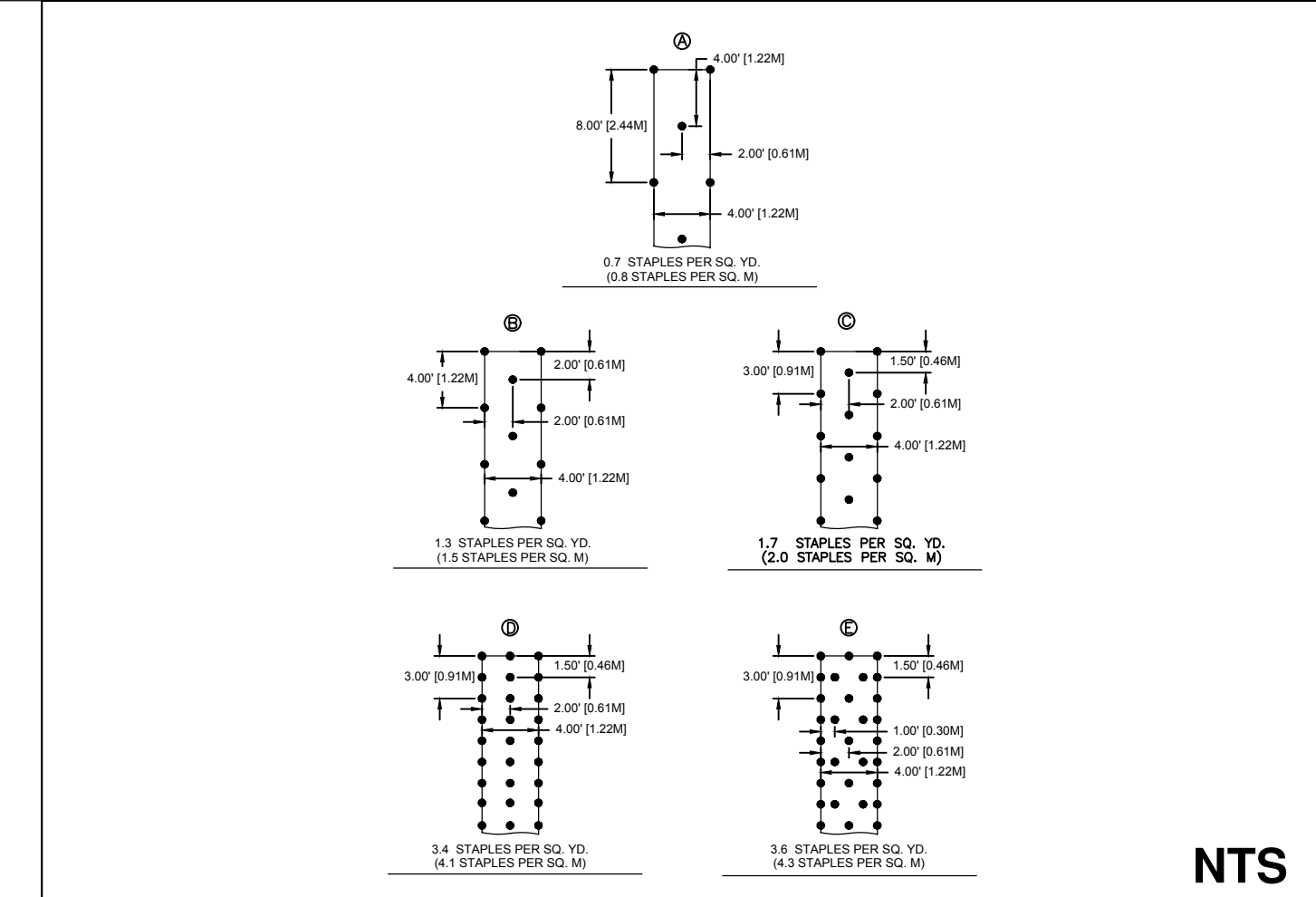
5 HARDWARE CLOTH & GRAVEL INLET PROTECTION

SEEDING SPECIFICATIONS
SEEDING MIXTURES:
SPECIES RATE (LB./ACRE)
TALL FESCUE 80
PENSACOLA BAHIGRASS 50
SERICEA LESPEDEZA 30
KOBE LESPEDEZA 10
SEEDING NOTES:
1. FROM SEPT. 1 TO MAR. 1 USE UNSCARIFIED SERICEA SEED.
2. ON POORLY DRAINED SITES OMIT SERICEA AND INCREASE KOBE TO 30 LB./ACRE.
3. WHERE A NEAT APPEARANCE IS DESIRED, OMIT SERICEA AND INCREASE KOBE TO 40 LB./ACRE.
NURSE PLANTS:
BETWEEN APRIL 15 AND AUG. 15, ADD 10 LB./ACRE OF GERMAN MILLET OR 15 LB./ACRE SUDAGRASS. PRIOR TO MAY 1 OR AFTER AUG. 15, ADD 25 LB./ACRE RYE (GRAIN).
SEEDING DATES:
BEST POSSIBLE
EARLY SPRING: FEB. 15 - MAR. 20 FEB. 15 - APR. 30
FALL: SEPT. 1 - SEPT. 30 SEPT. 1 - OCT. 31
SOIL AMENDMENTS:
APPLY LIME AND FERTILIZER ACCORDING TO SOIL TEST, OR APPLY 3,000 - 5,000 LB./ACRE GROUND AGRICULTURAL LIMESTONE (USE THE LOWER RATE ON SANDY SOILS) AND 1,000 LB./ACRE 10-10-10 FERTILIZER.
MULCH:
APPLY 4,000 LB./ACRE GRAIN STRAW OR EQUIVALENT COVER OF ANOTHER SUITABLE MULCH. ANCHOR STRAW BY TACKLING WITH ASPHALT, NETTING, OR ROVING OR BY CRIMPING WITH A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.
MAINTENANCE:
IF GROWTH IS LESS THAN FULLY ADEQUATE, REFERTILIZE IN THE SECOND YEAR, ACCORDING TO THE SOIL TESTS OR TOP DRESS WITH 500 LB./ACRE 10-10-10 FERTILIZER. MOW AS NEEDED WHEN SERICEA IS OMITTED FROM THE MIXTURE. RESEED, FERTILIZE, AND MULCH DAMAGED AREAS IMMEDIATELY.
SEEDING SPECIFICATIONS
SEEDING MIXTURE:
SPECIES RATE (LB./ACRE)
COMMON BERMOUDAGRASS 40-80 (1-2 LB./1,000 FT²)
SEEDING DATES:
COASTAL PLAIN: APR. - JULY
SOIL AMENDMENTS:
APPLY LIME AND FERTILIZER ACCORDING TO SOIL TEST, OR APPLY 3,000 LB./ACRE GROUND AGRICULTURAL LIMESTONE AND 500 LB./ACRE 10-10-10 FERTILIZER.
MULCH:
USE JUTE, EXCENSOR MATTING, OR OTHER EFFECTIVE CHANNEL LINING MATERIAL TO COVER THE BOTTOM OF CHANNELS AND DITCHES. THE LINING SHOULD EXTEND ABOVE THE HIGHEST CALCULATED DEPTH OF FLOW. ON CHANNEL SIDE SLOPES ABOVE THIS HEIGHT, AND IN DRAINAGES NOT REQUIRING TEMPORARY LININGS, APPLY 4,000 LB./ACRE GRAIN STRAW AND ANCHOR STRAW BY TACKLING NETTING OVER THE TOP.
MULCH AND ANCHORING MATERIALS MUST NOT BE ALLOWED TO WASH DOWN SLOPES WHERE THEY CAN CLOG DRAINAGE DEVICES.
MAINTENANCE:
A MINIMUM OF 3 WEEKS IS REQUIRED FOR ESTABLISHMENT. INSPECTION AND REPAIR MULCH FREQUENTLY. REFERTILIZE THE FOLLOWING APR. WITH 50 LB./ACRE NITROGEN.

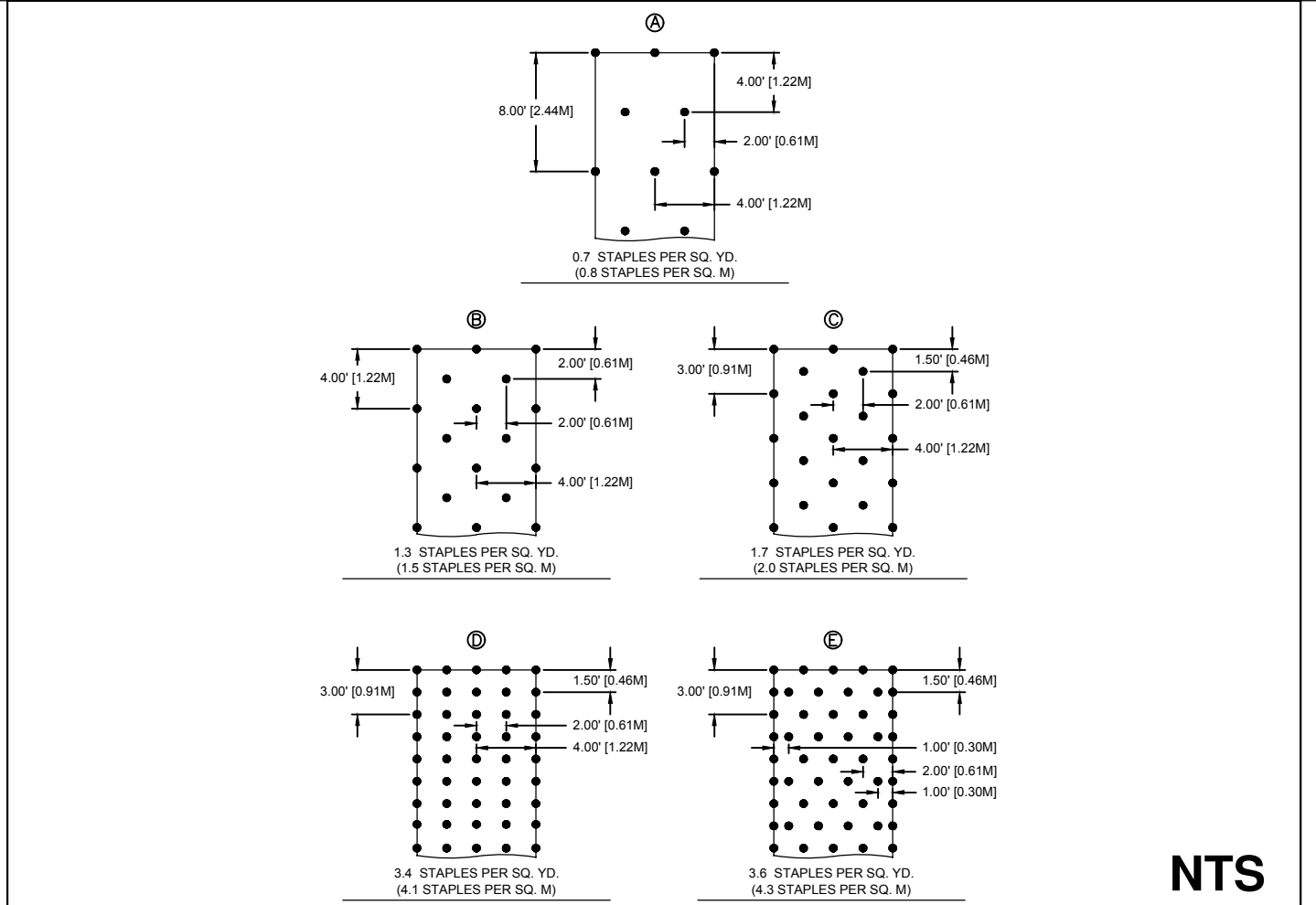
2 PERMANENT SEEDING SPECIFICATIONS

6 SILT FENCE

1 TEMPORARY SEEDING SPECIFICATIONS



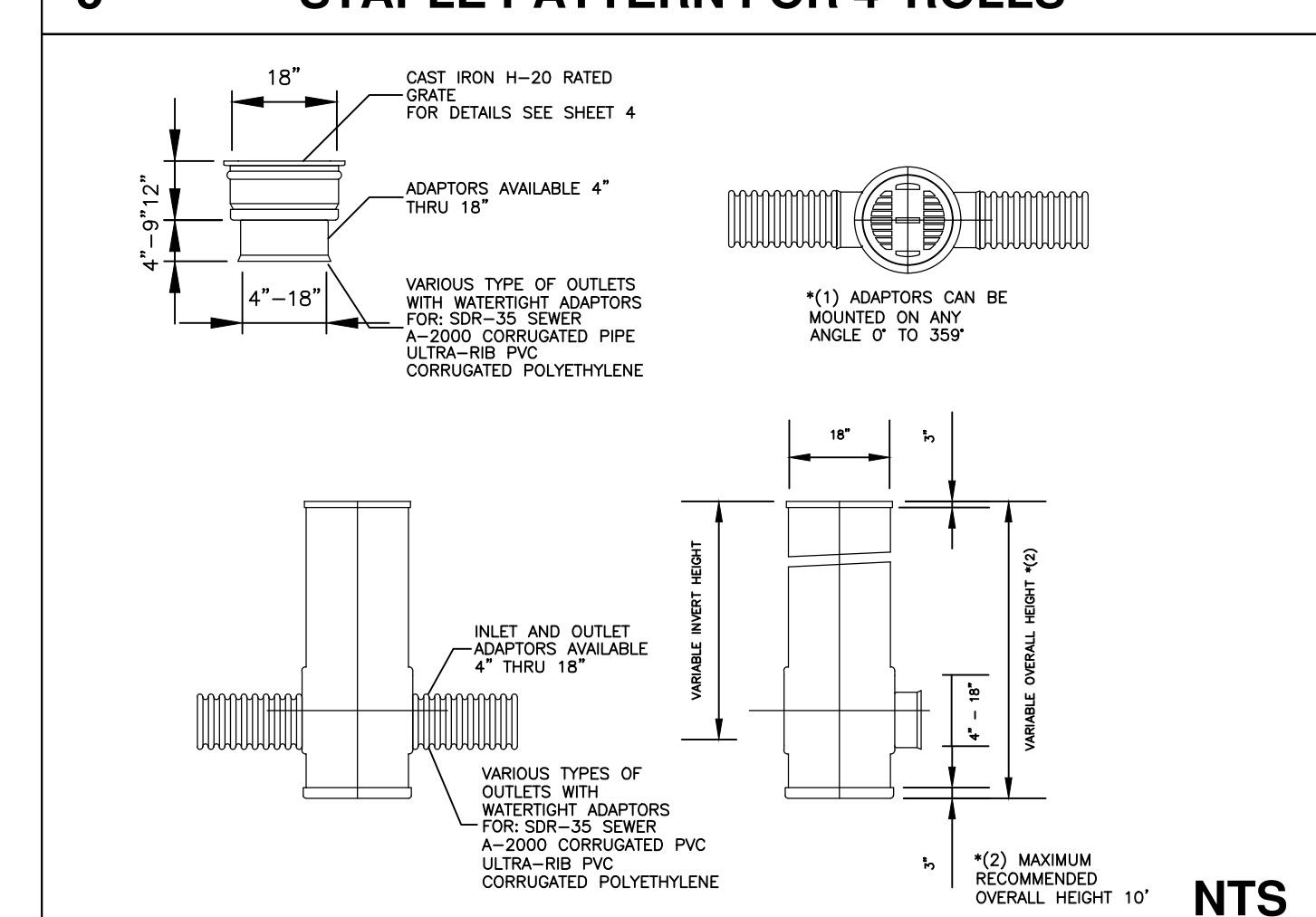
NTS



NTS

8 STAPLE PATTERN FOR 4' ROLLS

9 STAPLE PATTERN FOR 8' ROLLS

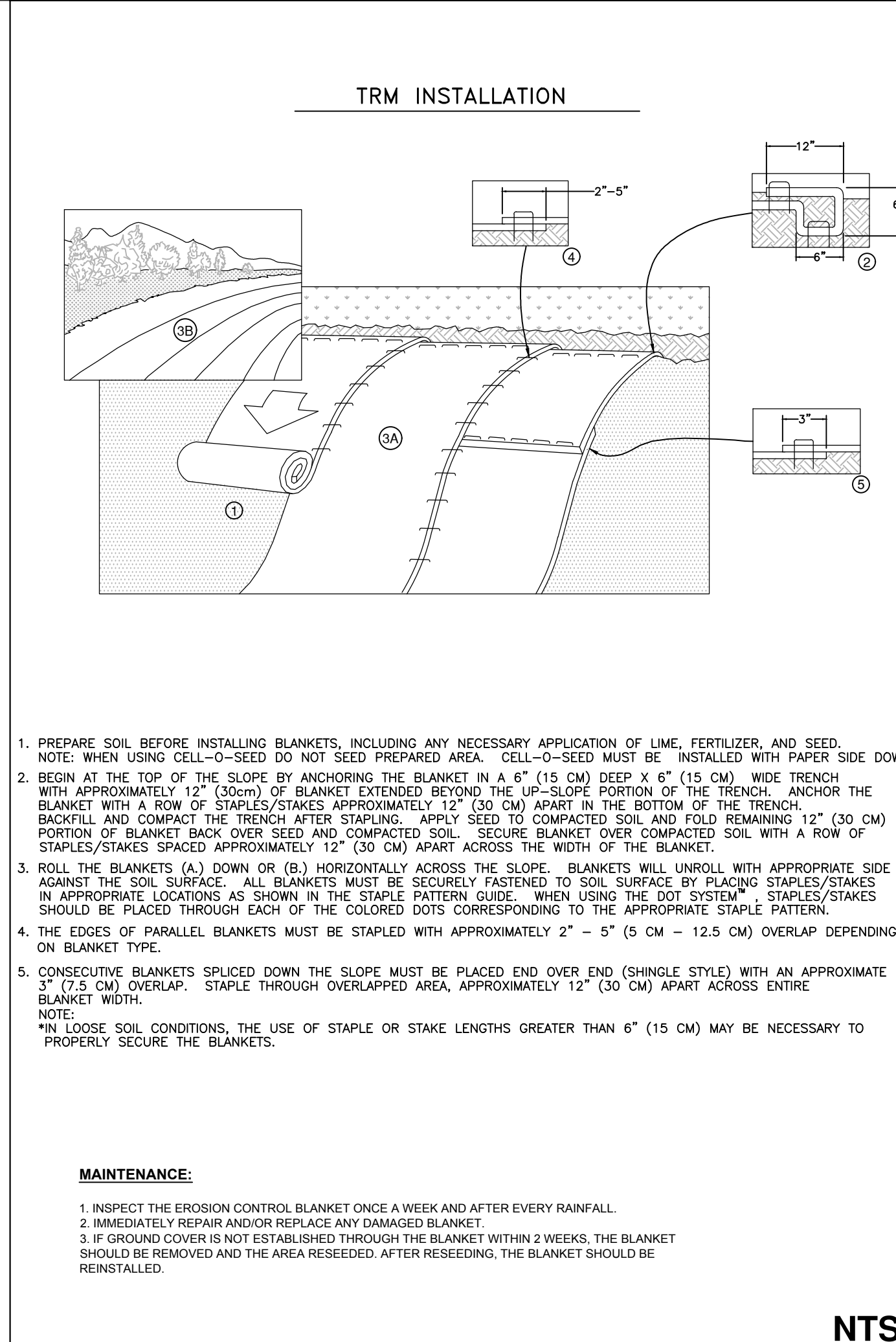


NTS

11 YARD DRAIN

TEMPORARY SEEDING/MULCHING SPECIFICATIONS (FOR LATE WINTER AND EARLY SPRING)
SEEDING MIXTURE:
SPECIES RATE (LB./ACRE)
RYE (GRAIN) 120
ANNUAL KOBE LESPEDEZA 50
OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IS NOT EXTEND BEYOND JUNE.
SEEDING DATES:
JANUARY 1 - MAY 1
SOIL AMENDMENTS:
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB./ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB./ACRE 10-10-10 FERTILIZER.
MULCH:
APPLY 4,000 LB./ACRE STRAW. ANCHOR STRAW BY TACKLING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.
MAINTENANCE:
REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.
TEMPORARY SEEDING/MULCHING SPECIFICATIONS (FOR SUMMER)
SEEDING MIXTURE:
SPECIES RATE (LB./ACRE)
GERMAN MILLET 40
A SMALL-STEMMED SUDAGRASS MAY BE SUBSTITUTED AT A RATE OF 50 LB./ACRE.
SEEDING DATES:
MAY 1 - AUGUST 15
SOIL AMENDMENTS:
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB./ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB./ACRE 10-10-10 FERTILIZER.
MULCH:
APPLY 4,000 LB./ACRE STRAW. ANCHOR STRAW BY TACKLING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.
MAINTENANCE:
REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.
TEMPORARY SEEDING/MULCHING SPECIFICATIONS (FOR FALL)
SEEDING MIXTURE:
SPECIES RATE (LB./ACRE)
RYE (GRAIN) 120
SEEDING DATES:
AUGUST 15 - DECEMBER 30
SOIL AMENDMENTS:
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB./ACRE GROUND AGRICULTURAL LIMESTONE AND 1,000 LB./ACRE 10-10-10 FERTILIZER.
MULCH:
APPLY 4,000 LB./ACRE STRAW. ANCHOR STRAW BY TACKLING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.
MAINTENANCE:
REPAIR AND REFERTILIZE DAMAGED AREAS IMMEDIATELY. TOP DRESS WITH 50 LB./ACRE OF NITROGEN IN MARCH. IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LB./ACRE KOBE LESPEDEZA IN LATE OR EARLY MARCH.

7 EROSION CONTROL BLANKET INSTALLATION



NTS

1 EROSION CONTROL BLANKET INSTALLATION



REVISIONS

PROJECT NAME

BUFFALO LAKE ROAD TRACT 3

SANITARY SEWER & WATER DETAILS

CLIENT

VENTURE PROPERTIES

126 Executive Drive - Suite 200
 Wilkesboro, North Carolina 28697
 Phone: (336) 981-7126

PROJECT INFORMATION

| | |
|-----------------|-------|
| DESIGNED BY: | SCOTT |
| DRAWN BY: | SCOTT |
| CHECKED BY: | CHRIS |
| PROJECT NUMBER: | 1555 |

DRAWING SCALE

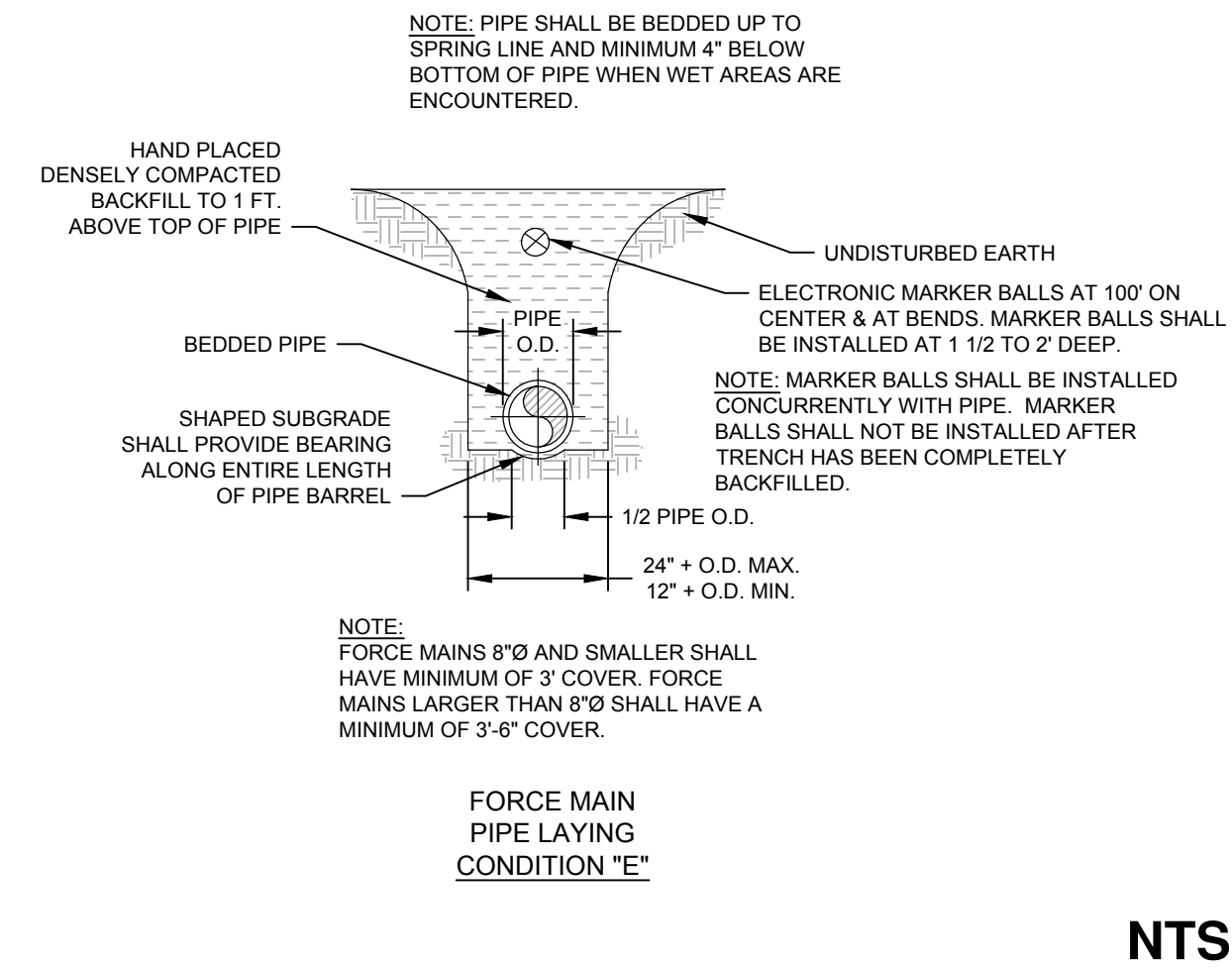
NOT TO SCALE

DATE RELEASED

JANUARY 7, 2020

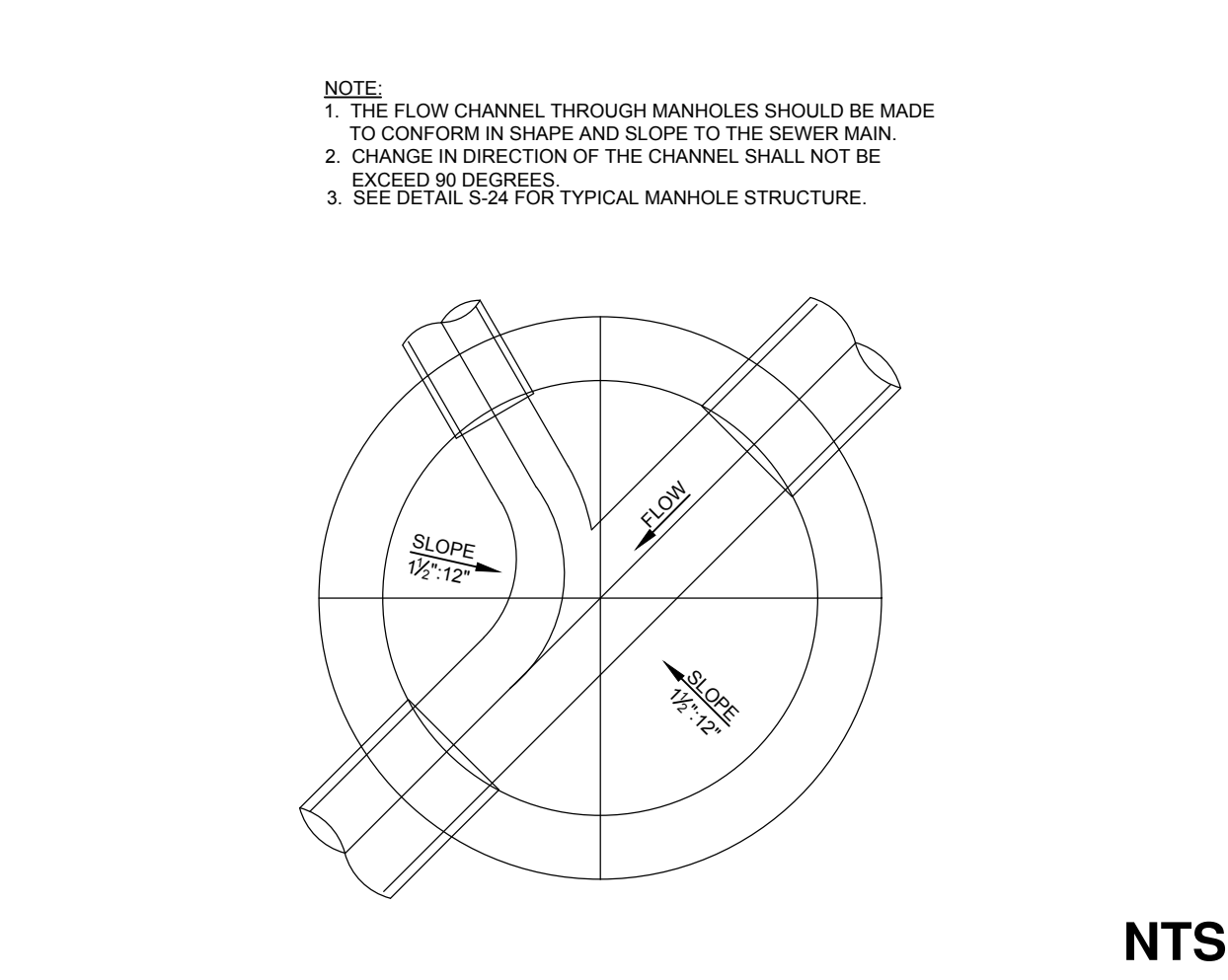
SHEET NUMBER

C-6.3



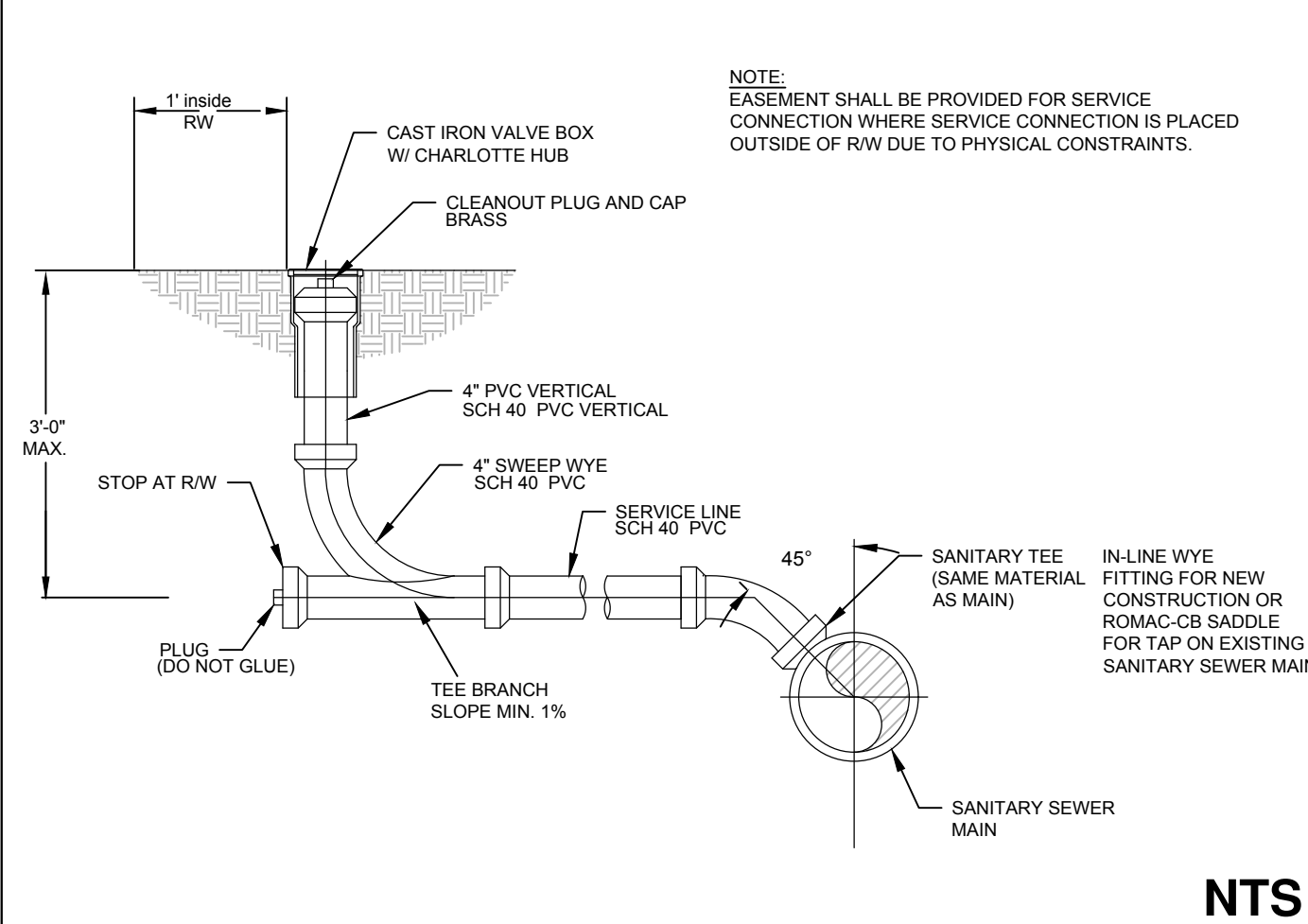
NTS

3 PIPE LAYING CONDITION



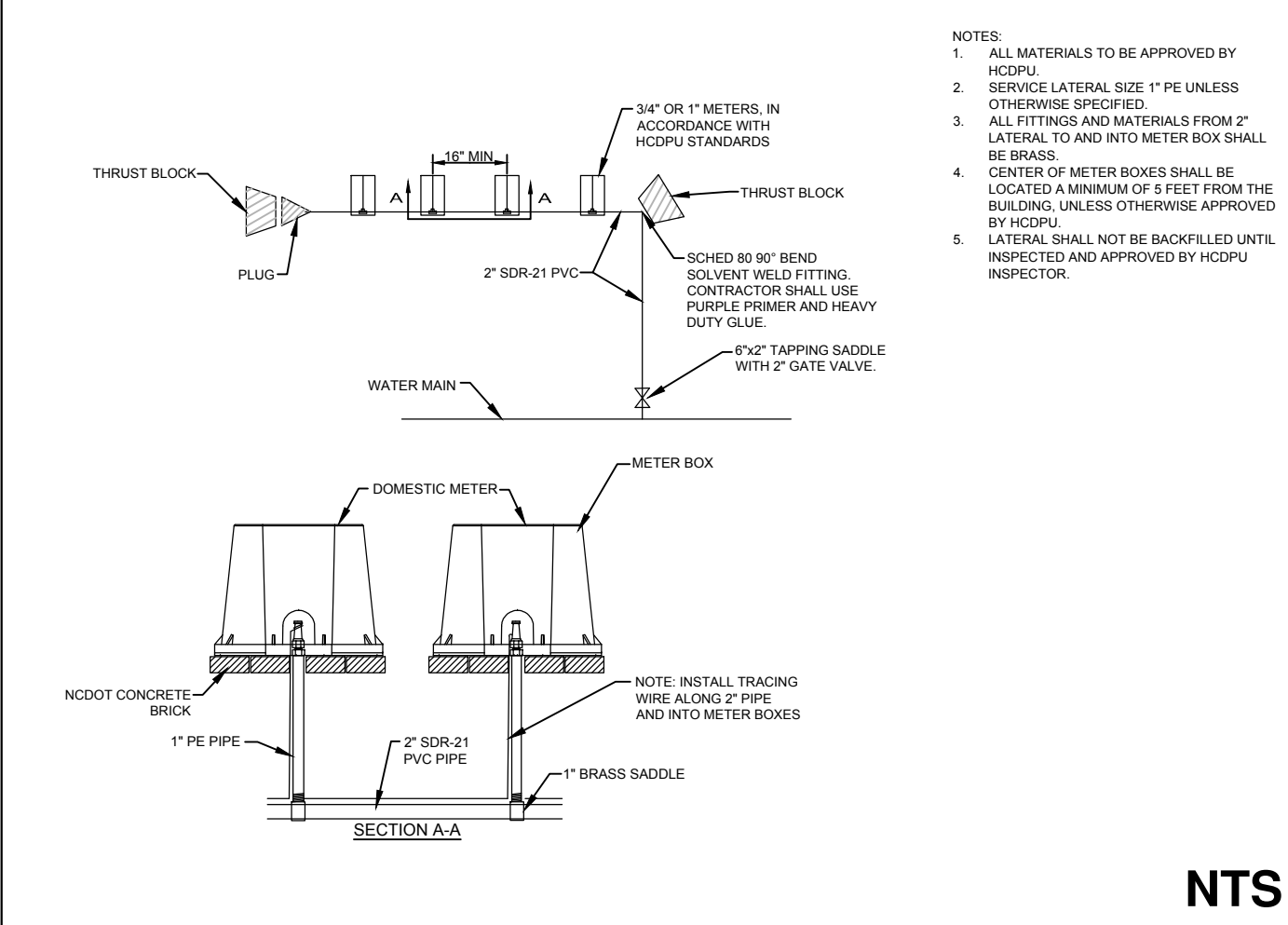
NTS

5 MANHOLE INVERT



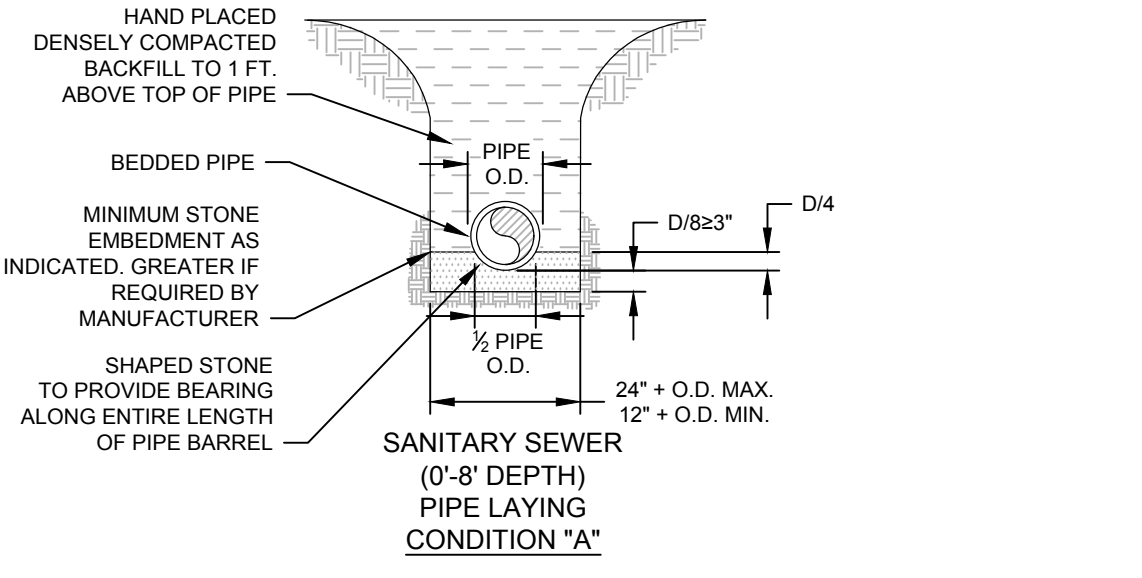
NTS

4 SEWER SERVICE CONNECTION



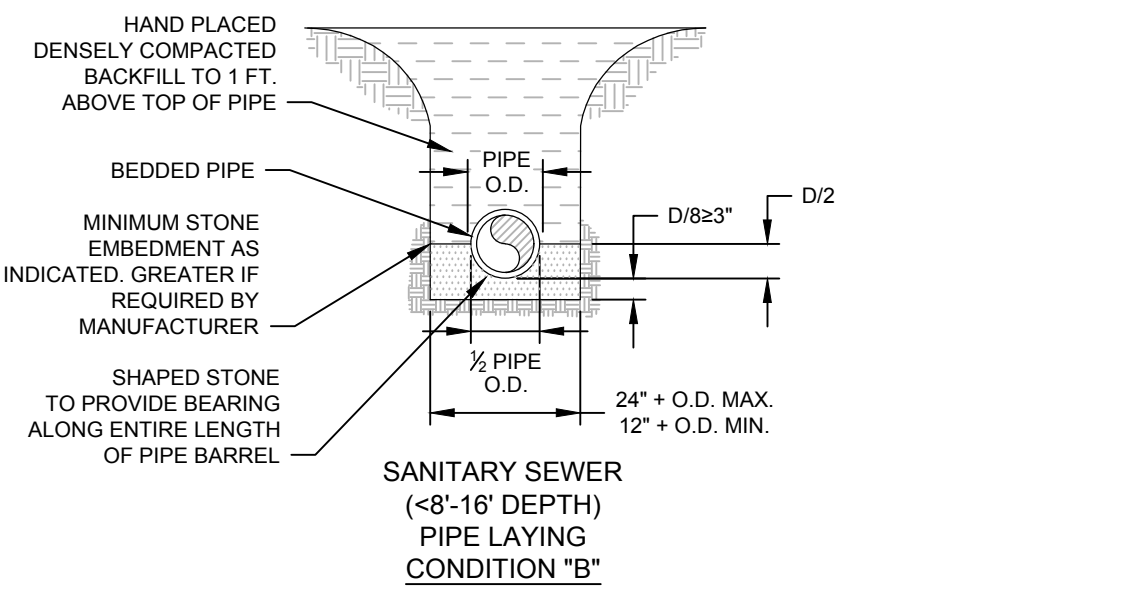
NTS

6 GANG METER DETAIL



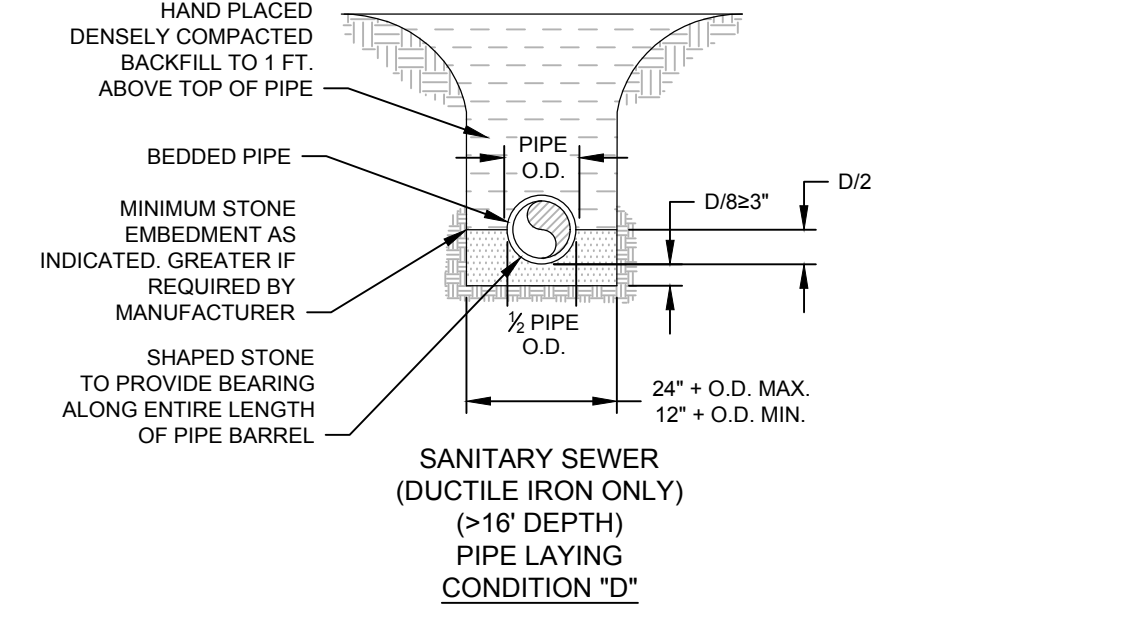
NTS

1 PIPE LAYING CONDITION



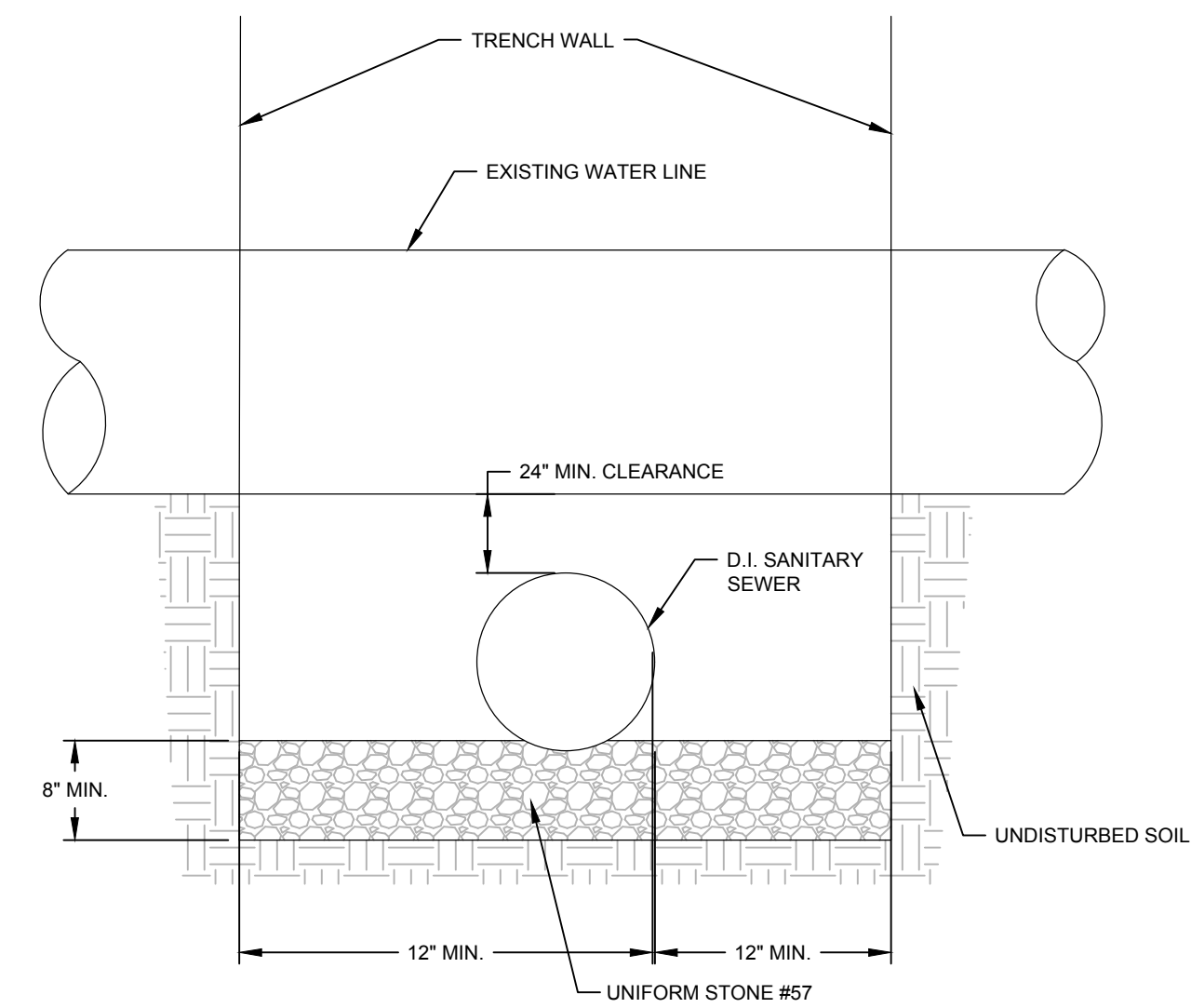
NTS

2 PIPE LAYING CONDITION



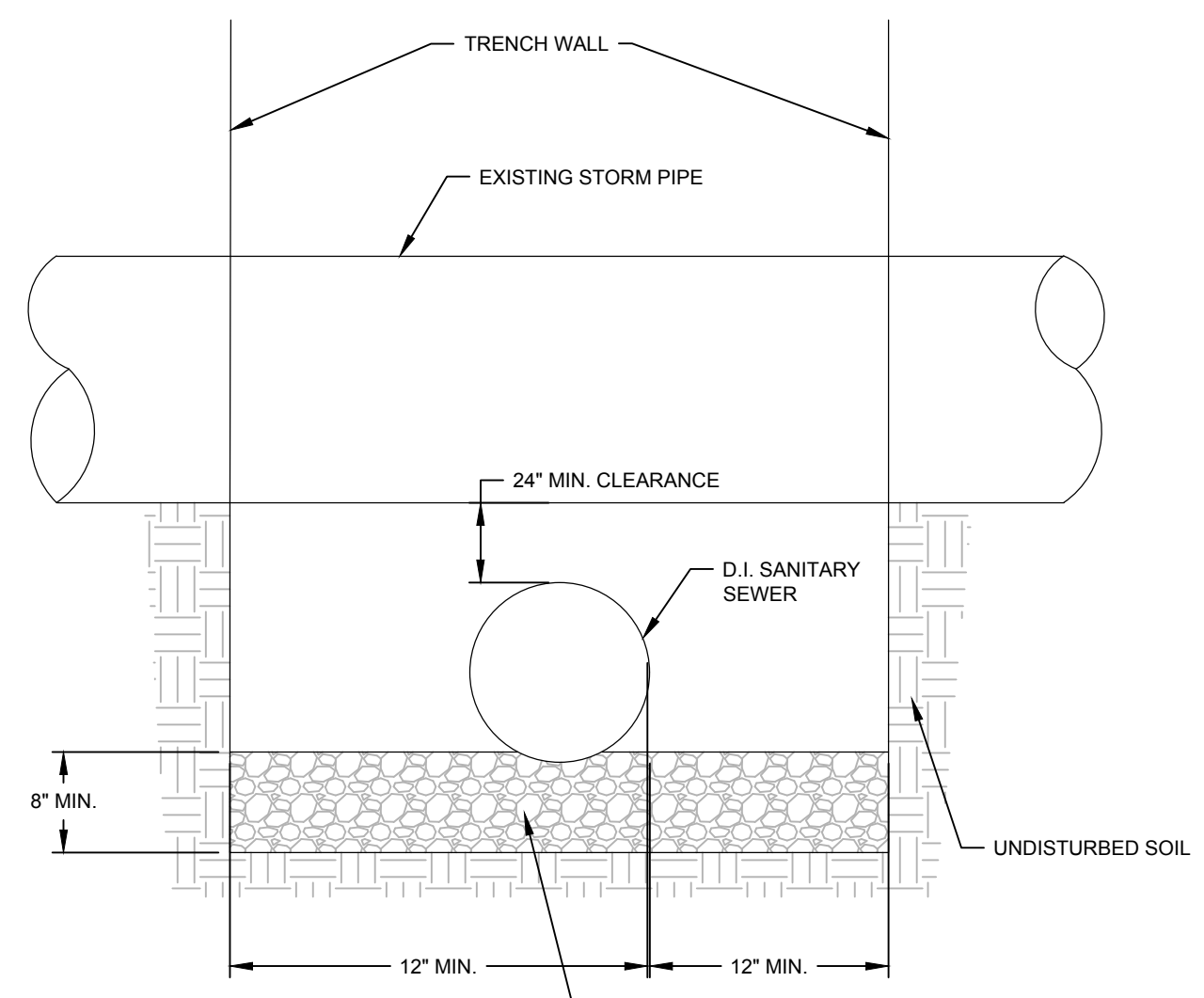
NTS

4 PIPE LAYING CONDITION



NTS

7 WATER LINE CROSSING FOR SANITARY SEWER



NTS

8 STORM CROSSING FOR SANITARY SEWER

C:\Users\scott\Documents\1555-1555-Buffalo Lake Tract 3\DWG\1555-1555-SS-01.dwg - 11/20/20 11:39:44 AM



REVISIONS

PROJECT NAME

BUFFALO LAKE ROAD TRACT 3

STORM DETAILS

CLIENT

VENTURE PROPERTIES

126 Executive Drive - Suite 200
Wilkesboro, North Carolina 28687
Phone: (336) 981-7126

PROJECT INFORMATION

| | |
|-----------------|-------|
| DESIGNED BY: | SCOTT |
| DRAWN BY: | SCOTT |
| CHECKED BY: | CHRIS |
| PROJECT NUMBER: | 1555 |

DRAWING SCALE

NOT TO SCALE

DATE RELEASED

JANUARY 7, 2020

SHEET NUMBER

C-6.4

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR BRICK CATCH BASIN 12" THRU 54" PIPE

MINIMUM DIMENSIONS AND QUANTITIES FOR BRICK CATCH BASIN (BASED ON MIN. HEIGHT, H, WITH NO RISER)*

| PIPE | DIMENSIONS OF BOX AND PIPE | | | | MIN. HEIGHT | TOP SLAB DIMENSIONS | | | BARS-U | | | BARS-V | | | BARS-W | | | TOTAL | CU YDS. CONC. IN BOX | | | BRICK MASONRY | | | DEDUCTIONS | | | | | | | | | |
|------|----------------------------|-------|--------|-----|-------------|---------------------|-------|-----|--------|-----|--------|--------|--------|-----|--------|-------|--------|-------|----------------------|--------|-------|---------------|-------|--------|------------|--------|-------|--------|-----|--------|-----|--------|-----|--------|
| | D | A | B | C | | E | F | G | H | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH |
| 12" | 3'-0" | 2'-2" | ... | ... | 2'-0" | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 0.281 | 0.281 | 0.883 | 1.184 | 0.020 | 0.042 | ... | ... | ... | ... | ... | ... | | |
| 15" | 3'-0" | 2'-2" | ... | ... | 3'-0" | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 0.281 | 0.281 | 0.883 | 1.244 | 0.031 | 0.047 | ... | ... | ... | ... | ... | ... | | |
| 18" | 3'-0" | 2'-2" | ... | ... | 3'-0" | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 0.281 | 0.281 | 1.043 | 1.324 | 0.044 | 0.065 | ... | ... | ... | ... | ... | ... | ... | |
| 24" | 3'-0" | 2'-2" | ... | ... | 3'-0" | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 0.281 | 0.281 | 1.284 | 1.485 | 0.078 | 0.121 | ... | ... | ... | ... | ... | ... | ... | |
| 30" | 3'-0" | 2'-2" | 3'-4" | ... | 4'-3" | 1'-2" | 4'-4" | 4 | 1'-6" | 3 | 4'-1" | 3 | 4'-1" | 45 | 0.147 | 0.374 | 0.521 | 1.908 | 2.017 | 0.122 | 0.184 | 0.281 | 0.415 | 0.602 | 1.914 | 2.516 | 0.178 | 0.281 | ... | ... | ... | ... | ... | |
| 36" | 3'-0" | 2'-2" | 3'-10" | ... | 4'-9" | 1'-8" | 4'-4" | 4 | 2'-0" | 4 | 4'-1" | 3 | 4'-1" | 49 | 0.187 | 0.415 | 0.602 | 1.914 | 2.516 | 0.178 | 0.281 | 0.281 | 0.415 | 0.602 | 1.914 | 2.516 | 0.178 | 0.281 | ... | ... | ... | ... | ... | |
| 42" | 3'-0" | 2'-2" | 4'-5" | ... | 5'-3" | 1'-9" | 3'-8" | 4 | 1'-9" | 3 | 3'-3" | 3 | 3'-3" | 38 | 0.138 | 0.347 | 0.528 | 2.152 | 2.660 | 0.240 | 0.371 | 0.281 | 0.415 | 0.602 | 1.914 | 2.516 | 0.178 | 0.281 | ... | ... | ... | ... | ... | ... |
| 48" | 3'-0" | 2'-2" | 5'-0" | ... | 5'-9" | 2'-0" | 3'-8" | 4 | 2'-6" | 4 | 3'-3" | 3 | 3'-3" | 41 | 0.173 | 0.410 | 0.583 | 2.415 | 2.986 | 0.313 | 0.477 | 0.281 | 0.415 | 0.602 | 1.914 | 2.516 | 0.178 | 0.281 | ... | ... | ... | ... | ... | ... |
| 54" | 3'-0" | 2'-2" | 5'-7" | ... | 6'-3" | 2'-7" | 3'-8" | 4 | 3'-0" | 6 | 3'-3" | 3 | 3'-3" | 47 | 0.211 | 0.448 | 0.659 | 2.806 | 3.465 | 0.366 | 0.565 | 0.281 | 0.415 | 0.602 | 1.914 | 2.516 | 0.178 | 0.281 | ... | ... | ... | ... | ... | ... |

* RISER HAS 321 CUBIC YARDS OF BRICK MASONRY PER FOOT HEIGHT

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR CONCRETE CATCH BASIN 12" THRU 54" PIPE

MINIMUM DIMENSIONS AND QUANTITIES FOR CONCRETE CATCH BASIN (BASED ON MIN. HEIGHT, H, WITH NO RISER)*

| PIPE | DIMENSIONS OF BOX AND PIPE | | | | MIN. HEIGHT | TOP SLAB DIMENSIONS | | | BARS-U | | | BARS-V | | | BARS-W | | | TOTAL | CU YDS. CONC. IN BOX | | | DEDUCTIONS | | | | | | | | | | | |
|------|----------------------------|-------|--------|-----|-------------|---------------------|-------|-----|--------|-----|--------|--------|--------|-----|--------|-------|--------|-------|----------------------|--------|-------|------------|-------|--------|-------|--------|-------|--------|-----|--------|-----|--------|-----|
| | D | A | B | C | | E | F | G | H | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | |
| 12" | 3'-0" | 2'-2" | ... | ... | 2'-0" | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 0.281 | 0.281 | 0.883 | 1.184 | 0.020 | 0.042 | ... | ... | ... | ... | ... | ... | |
| 15" | 3'-0" | 2'-2" | ... | ... | 3'-0" | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 0.281 | 0.281 | 0.883 | 1.244 | 0.031 | 0.047 | ... | ... | ... | ... | ... | ... | |
| 18" | 3'-0" | 2'-2" | ... | ... | 3'-0" | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 0.281 | 0.281 | 1.043 | 1.324 | 0.044 | 0.065 | ... | ... | ... | ... | ... | ... | |
| 24" | 3'-0" | 2'-2" | ... | ... | 3'-0" | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 0.281 | 0.281 | 1.284 | 1.485 | 0.078 | 0.121 | ... | ... | ... | ... | ... | ... | |
| 30" | 3'-0" | 2'-2" | 3'-4" | ... | 4'-3" | 1'-2" | 4'-4" | 4 | 1'-6" | 3 | 4'-1" | 3 | 4'-1" | 45 | 0.147 | 0.374 | 0.521 | 1.908 | 2.017 | 0.122 | 0.184 | 0.281 | 0.415 | 0.602 | 1.914 | 2.516 | 0.178 | 0.281 | ... | ... | ... | ... | ... |
| 36" | 3'-0" | 2'-2" | 3'-10" | ... | 4'-9" | 1'-8" | 4'-4" | 4 | 2'-0" | 4 | 4'-1" | 3 | 4'-1" | 49 | 0.187 | 0.415 | 0.602 | 1.914 | 2.516 | 0.178 | 0.281 | 0.281 | 0.415 | 0.602 | 1.914 | 2.516 | 0.178 | 0.281 | ... | ... | ... | ... | ... |
| 42" | 3'-0" | 2'-2" | 4'-5" | ... | 5'-3" | 1'-9" | 3'-8" | 4 | 1'-9" | 3 | 3'-3" | 3 | 3'-3" | 38 | 0.138 | 0.347 | 0.528 | 2.152 | 2.660 | 0.240 | 0.371 | 0.281 | 0.415 | 0.602 | 1.914 | 2.516 | 0.178 | 0.281 | ... | ... | ... | ... | ... |
| 48" | 3'-0" | 2'-2" | 5'-0" | ... | 5'-9" | 2'-0" | 3'-8" | 4 | 2'-6" | 4 | 3'-3" | 3 | 3'-3" | 41 | 0.173 | 0.410 | 0.583 | 2.415 | 2.986 | 0.313 | 0.477 | 0.281 | 0.415 | 0.602 | 1.914 | 2.516 | 0.178 | 0.281 | ... | ... | ... | ... | ... |
| 54" | 3'-0" | 2'-2" | 5'-7" | ... | 6'-3" | 2'-7" | 3'-8" | 4 | 3'-0" | 6 | 3'-3" | 3 | 3'-3" | 47 | 0.211 | 0.448 | 0.659 | 2.806 | 3.465 | 0.366 | 0.565 | 0.281 | 0.415 | 0.602 | 1.914 | 2.516 | 0.178 | 0.281 | ... | ... | ... | ... | ... |

* RISER HAS 321 CUBIC YARDS OF BRICK MASONRY PER FOOT HEIGHT

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR FRAME, GRATES, AND HOOD FOR USE ON STANDARD CATCH BASIN

NOTE: USE TYPE "E", "F" AND "G" GRATE UNLESS OTHERWISE INDICATED.

ONE OF THE FOLLOWING FISH LOGOS MUST APPEAR ON HOOD

ALIGN FRAME WITH INSIDE EDGE OF WALL TO ALLOW FOR VERTICAL ADJUSTMENT

WALL SECTION

SECTION - AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR

FRAME, GRATES, AND HOOD NTS

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR BRICK CATCH BASIN 12" THRU 54" PIPE

MINIMUM DIMENSIONS AND QUANTITIES FOR BRICK CATCH BASIN (BASED ON MIN. HEIGHT, H, WITH NO RISER)*

| PIPE | DIMENSIONS OF BOX AND PIPE | | | | MIN. HEIGHT | TOP SLAB DIMENSIONS | | | BARS-U | | | BARS-V | | | BARS-W | | | TOTAL | CU YDS. CONC. IN BOX | | | BRICK MASONRY | | | DEDUCTIONS | | | | | | | | |
|------|----------------------------|-------|--------|-----|-------------|---------------------|-------|-----|--------|-----|--------|--------|--------|-----|--------|-------|--------|-------|----------------------|--------|-------|---------------|-------|--------|------------|--------|-------|--------|-----|--------|-----|--------|-----|
| | D | A | B | C | | E | F | G | H | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | |
| 12" | 3'-0" | 2'-2" | ... | ... | 2'-0" | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 0.281 | 0.281 | 0.883 | 1.184 | 0.020 | 0.042 | ... | ... | ... | ... | ... | ... | |
| 15" | 3'-0" | 2'-2" | ... | ... | 3'-0" | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 0.281 | 0.281 | 0.883 | 1.244 | 0.031 | 0.047 | ... | ... | ... | ... | ... | ... | |
| 18" | 3'-0" | 2'-2" | ... | ... | 3'-0" | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 0.281 | 0.281 | 1.043 | 1.324 | 0.044 | 0.065 | ... | ... | ... | ... | ... | ... | |
| 24" | 3'-0" | 2'-2" | ... | ... | 3'-0" | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 0.281 | 0.281 | 1.284 | 1.485 | 0.078 | 0.121 | ... | ... | ... | ... | ... | ... | |
| 30" | 3'-0" | 2'-2" | 3'-4" | ... | 4'-3" | 1'-2" | 4'-4" | 4 | 1'-6" | 3 | 4'-1" | 3 | 4'-1" | 45 | 0.147 | 0.374 | 0.521 | 1.908 | 2.017 | 0.122 | 0.184 | 0.281 | 0.415 | 0.602 | 1.914 | 2.516 | 0.178 | 0.281 | ... | ... | ... | ... | ... |
| 36" | 3'-0" | 2'-2" | 3'-10" | ... | 4'-9" | 1'-8" | 4'-4" | 4 | 2'-0" | 4 | 4'-1" | 3 | 4'-1" | 49 | 0.187 | 0.415 | 0.602 | 1.914 | 2.516 | 0.178 | 0.281 | 0.281 | 0.415 | 0.602 | 1.914 | 2.516 | 0.178 | 0.281 | ... | ... | ... | ... | ... |
| 42" | 3'-0" | 2'-2" | 4'-5" | ... | 5'-3" | 1'-9" | 3'-8" | 4 | 1'-9" | 3 | 3'-3" | 3 | 3'-3" | 38 | 0.138 | 0.347 | 0.528 | 2.152 | 2.660 | 0.240 | 0.371 | 0.281 | 0.415 | 0.602 | 1.914 | 2.516 | 0.178 | 0.281 | ... | ... | ... | ... | ... |
| 48" | 3'-0" | 2'-2" | 5'-0" | ... | 5'-9" | 2'-0" | 3'-8" | 4 | 2'-6" | 4 | 3'-3" | 3 | 3'-3" | 41 | 0.173 | 0.410 | 0.583 | 2.415 | 2.986 | 0.313 | 0.477 | 0.281 | 0.415 | 0.602 | 1.914 | 2.516 | 0.178 | 0.281 | ... | ... | ... | ... | ... |
| 54" | 3'-0" | 2'-2" | 5'-7" | ... | 6'-3" | 2'-7" | 3'-8" | 4 | 3'-0" | 6 | 3'-3" | 3 | 3'-3" | 47 | 0.211 | 0.448 | 0.659 | 2.806 | 3.465 | 0.366 | 0.565 | 0.281 | 0.415 | 0.602 | 1.914 | 2.516 | 0.178 | 0.281 | ... | ... | ... | ... | ... |

* RISER HAS 321 CUBIC YARDS OF BRICK MASONRY PER FOOT HEIGHT

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR CONCRETE CATCH BASIN 12" THRU 54" PIPE

MINIMUM DIMENSIONS AND QUANTITIES FOR CONCRETE CATCH BASIN (BASED ON MIN. HEIGHT, H, WITH NO RISER)*

| PIPE | DIMENSIONS OF BOX AND PIPE | | | | MIN. HEIGHT | TOP SLAB DIMENSIONS | | | BARS-U | | | BARS-V | | | BARS-W | | | TOTAL | CU YDS. CONC. IN BOX | | | DEDUCTIONS | | | | | | | | | | |
|------|----------------------------|-------|-------|-----|-------------|---------------------|-------|-----|--------|-----|--------|--------|--------|-----|--------|-------|--------|-------|----------------------|--------|-------|------------|-------|--------|-------|--------|-----|--------|-----|--------|-----|--------|
| | D | A | B | C | | E | F | G | H | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH | NO. | LENGTH |
| 12" | 3'-0" | 2'-2" | ... | ... | 2'-0" | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 0.281 | 0.281 | 0.883 | 1.184 | 0.020 | 0.042 | ... | ... | ... | ... | ... | ... |
| 15" | 3'-0" | 2'-2" | ... | ... | 3'-0" | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 0.281 | 0.281 | 0.883 | 1.244 | 0.031 | 0.047 | ... | ... | ... | ... | ... | ... |
| 18" | 3'-0" | 2'-2" | ... | ... | 3'-0" | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 0.281 | 0.281 | 1.043 | 1.324 | 0.044 | 0.065 | ... | ... | ... | ... | ... | ... |
| 24" | 3'-0" | 2'-2" | ... | ... | 3'-0" | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 0.281 | 0.281 | 1.284 | 1.485 | 0.078 | 0.121 | ... | ... | ... | ... | ... | ... |
| 30" | 3'-0" | 2'-2" | 3'-4" | ... | 4'-3" | 1'-2" | 4'-4" | 4 | 1'-6" | 3 | 4'-1" | 3 | 4'-1" | 45 | 0.147 | 0.374 | 0.521 | 1.908 | 2.017 | | | | | | | | | | | | | |



REVISIONS

PROJECT NAME

BUFFALO LAKE ROAD TRACT 3

STORM DETAILS

CLIENT

VENTURE PROPERTIES

126 Executive Drive - Suite 200
Wilkesboro, North Carolina 28687
Phone: (336) 981-7126

PROJECT INFORMATION

| | |
|-----------------|-------|
| DESIGNED BY: | SCOTT |
| DRAWN BY: | SCOTT |
| CHECKED BY: | CHRIS |
| PROJECT NUMBER: | 1555 |

DRAWING SCALE

NOT TO SCALE

DATE RELEASED

JANUARY 7, 2020

SHEET NUMBER

C-6.5

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-1/2

ENGLISH STANDARD DRAWING FOR
CONCRETE DROP INLET
12" THRU 30" PIPE

GENERAL NOTES:
USE CLASS "B" CONCRETE THROUGHOUT.
PROVIDE ALL DROP INLETS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.
OPTIONAL CONSTRUCTION - MONOLITHIC POUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.
USE FORMS FOR TO CONSTRUCT OF THE BOTTOM SLAB.
IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.
CONSTRUCT WITH PIPE CROWNS MATCHING.
SEE STANDARD DRAWING 840.25 FOR ATTACHMENT OF FRAMES AND GRATE NOT SHOWN.
INSTALL 2" WEEP HOLES AS DIRECTED BY THE ENGINEER.
FOR 4" WALL OR LESS, USE 8" WALL OVER 8" IN HEIGHT. USE 12" WALL TO 6'-0" FROM TOP OF WALL AND 8" WALL FOR THE REMAINING 6'-0" QUANTITIES TO BE ADJUSTED ACCORDINGLY.
CONSTRUCT WITH PIPE CROWNS MATCHING.
SEE STANDARD DRAWING 840.25 FOR ATTACHMENT OF FRAMES AND GRATES.
DO NOT USE BRICK MASONRY DROP INLET IN LOCATIONS SUBJECT TO TRAFFIC.
CHAMFER ALL EXPOSED CORNERS 1".
DRAWING NOT TO SCALE.

WITH GRATE & FRAME REMOVED

SECTION X-X
SECTION Y-Y

DIMENSIONS AND QUANTITIES FOR DROP INLET (BASED ON MIN. HEIGHT, H)

| PIPE | DIMENSIONS OF BOX & PIPE | | | REINFORCEMENT BARS "A" | | TOP SLAB DIMENSIONS | | CUBIC YARDS IN BOX | | TOTAL QUANTITIES BOX AND SLAB | | DIMENSIONS FOR ONE PIPE | | |
|------|--------------------------|-------|-------|------------------------|--------|---------------------|-------|--------------------|-------------------|-------------------------------|-------------|-------------------------|-------|-------|
| | D | A | B | NO. | LENGTH | E | F | TOP FT. OF HT. | BOTTOM FT. OF HT. | WALL PER FT. OF HT. | LBS. REINF. | CU. YDS. MIN. "H" | C.S. | R.C. |
| 12" | 3'-0" | 2'-0" | 2'-0" | 2-2" | 2'-0" | 3'-0" | 3'-0" | 0.187 | 0.186 | 0.185 | 22 | 0.750 | 0.015 | 0.026 |
| 15" | 3'-0" | 2'-0" | 2'-0" | 2-3" | 2'-0" | 3'-0" | 3'-0" | 0.196 | 0.196 | 0.204 | 24 | 0.902 | 0.023 | 0.036 |
| 18" | 3'-0" | 2'-0" | 2'-0" | 2-4" | 2'-0" | 3'-0" | 3'-0" | 0.227 | 0.222 | 0.222 | 30 | 1.065 | 0.033 | 0.049 |
| 24" | 3'-0" | 2'-0" | 2'-0" | 3-3" | 3'-0" | 4'-0" | 4'-0" | 0.298 | 0.296 | 0.299 | 40 | 1.434 | 0.059 | 0.085 |
| 30" | 3'-0" | 2'-0" | 2'-0" | 4-3" | 3'-0" | 4'-6" | 4'-6" | 0.375 | 0.375 | 0.296 | 51 | 1.860 | 0.092 | 0.127 |

SHEET 1 OF 1
840.14

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-1/2

ENGLISH STANDARD DRAWING FOR
BRICK DROP INLET
12" THRU 30" PIPE

GENERAL NOTES:
MORTAR JOINTS 1/2" x 1/8" THICK.
USE CLASS "B" CONCRETE THROUGHOUT.
USE FORMS FOR CONSTRUCTION OF THE BOTTOM SLAB.
USE #4 BAR DOWELS AT 12" CENTERS.
DUCT FOR PIPES FROM TOTAL CU. YDS. OF BRICK MASONRY.
PROVIDE ALL CATCH BASINS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH THE REQUIREMENTS OF SECTION 840.00 OF THE STANDARD SPECIFICATIONS.
USE BRICK OR CONCRETE BLOCK WHICH COMPLES WITH THE REQUIREMENTS OF SECTION 840.00 OF THE STANDARD SPECIFICATIONS.
IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.
FOR 4" IN HEIGHT OR LESS, USE 8" WALL OVER 8" IN HEIGHT. USE 12" WALL TO 6'-0" FROM TOP OF WALL AND 8" WALL FOR THE REMAINING 6'-0" QUANTITIES TO BE ADJUSTED ACCORDINGLY.
CONSTRUCT WITH PIPE CROWNS MATCHING.
SEE STANDARD DRAWING 840.25 FOR ATTACHMENT OF FRAMES AND GRATES.
DO NOT USE BRICK MASONRY DROP INLET IN LOCATIONS SUBJECT TO TRAFFIC.
CHAMFER ALL EXPOSED CORNERS 1".
DRAWING NOT TO SCALE.

WITH COPING REMOVED

SECTION X-X
SECTION Y-Y

DIMENSIONS AND QUANTITIES FOR DROP INLET (BASED ON MIN. HEIGHT, H)

| PIPE | DIMENSIONS OF BOX & PIPE | | | REINFORCEMENT BARS "A" | | TOP SLAB DIMENSIONS | | CUBIC YARDS CONCRETE | | CUBIC YARDS BRICK MASONRY | | DEDUCTIONS FOR ONE PIPE | | |
|------|--------------------------|-------|-------|------------------------|--------|---------------------|-------|----------------------|-------------------|---------------------------|-------------|-------------------------|------|------|
| | D | A | B | NO. | LENGTH | E | F | TOP FT. OF HT. | BOTTOM FT. OF HT. | WALL PER FT. OF HT. | LBS. REINF. | CU. YDS. MIN. "H" | C.S. | R.C. |
| 12" | 3'-0" | 2'-0" | 2'-0" | 2-2" | 2'-0" | 3'-0" | 3'-0" | 0.268 | 0.313 | 0.522 | 0.020 | 0.032 | | |
| 15" | 3'-0" | 2'-0" | 2'-0" | 2-3" | 2'-0" | 3'-0" | 3'-0" | 0.268 | 0.313 | 0.600 | 0.031 | 0.047 | | |
| 18" | 3'-0" | 2'-0" | 2'-0" | 2-4" | 2'-0" | 3'-0" | 3'-0" | 0.268 | 0.313 | 0.678 | 0.044 | 0.065 | | |
| 24" | 3'-0" | 2'-0" | 2'-0" | 3-3" | 3'-0" | 4'-0" | 4'-0" | 0.268 | 0.313 | 0.835 | 0.078 | 0.113 | | |
| 30" | 3'-0" | 2'-0" | 2'-0" | 4-3" | 3'-0" | 4'-6" | 4'-6" | 0.268 | 0.313 | 0.991 | 0.122 | 0.170 | | |

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STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

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ENGLISH STANDARD DRAWING FOR
CONCRETE JUNCTION BOX
(WITH OPTIONAL MANHOLE)
12" THRU 66" PIPE

GENERAL NOTES:
CHAMFER ALL EXPOSED CORNERS 1".
USE CLASS "B" CONCRETE THROUGHOUT.
OPTIONAL CONSTRUCTION - MONOLITHIC POUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.
USE FORMS TO CONSTRUCT THE BOTTOM SLAB.
IF REINFORCED CONCRETE PIPE IS SET IN BASE SLAB OF BOX, ADD TO BASE AS SHOWN ON STANDARD NO. 840.00.
PROVIDE ALL JUNCTION BOXES OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER IN ACCORDANCE WITH STD. NO. 840.66.
ADJUST THE STEEL, CONCRETE AND BRICK MASONRY QUANTITIES TO INCLUDE THE ADDITION OF THE MANHOLE (I.E. DIAGONAL BARS SHORTENED AROUND OPENING IN TOP SLAB, ADDITIONAL VARIABLE HEIGHT BRICK MASONRY, OPENING IN TOP SLAB).
MAX. DEPTH OF THIS STRUCTURE FROM TOP OF BOTTOM SLAB TO TOP ELEVATION IS 12 FEET.

OPTIONAL MANHOLE

SECTION X-X
SECTION C-C OR D-D
SECTION Y-Y

DIMENSIONS AND QUANTITIES FOR CONCRETE JUNCTION BOXES

| PIPE | DIMENSIONS OF BOX AND PIPE | | | REINFORCEMENT BARS "A" | | TOP SLAB DIMENSIONS | | CUBIC YARDS IN BOX | | TOTAL QUANTITIES BOX AND SLAB | | DIMENSIONS FOR ONE PIPE | | |
|------|----------------------------|--------|-------|------------------------|--------|---------------------|--------|--------------------|-------------------|-------------------------------|-------------|-------------------------|-------|-------|
| | D | A | B | NO. | LENGTH | E | F | TOP FT. OF HT. | BOTTOM FT. OF HT. | WALL PER FT. OF HT. | LBS. REINF. | CU. YDS. MIN. "H" | C.S. | R.C. |
| 12" | 2'-0" | 2'-0" | 2'-3" | 12" | 2'-0" | 3'-0" | 3'-0" | 0.187 | 0.187 | 0.185 | 22 | 0.750 | 0.015 | 0.024 |
| 15" | 2'-3" | 2'-3" | 2'-6" | 12" | 3'-0" | 3'-3" | 3'-3" | 0.196 | 0.196 | 0.204 | 24 | 0.902 | 0.023 | 0.036 |
| 18" | 2'-6" | 2'-6" | 2'-9" | 14" | 3'-0" | 3'-6" | 3'-6" | 0.227 | 0.222 | 0.222 | 30 | 1.065 | 0.033 | 0.049 |
| 24" | 3'-0" | 3'-0" | 3'-3" | 16" | 3'-0" | 4'-0" | 4'-0" | 0.298 | 0.296 | 0.299 | 40 | 1.434 | 0.059 | 0.085 |
| 30" | 3'-6" | 3'-6" | 3'-9" | 18" | 4'-3" | 4'-6" | 4'-6" | 0.375 | 0.375 | 0.296 | 51 | 1.860 | 0.092 | 0.127 |
| 36" | 4'-0" | 4'-0" | 4'-3" | 20" | 4'-0" | 5'-0" | 5'-0" | 0.463 | 0.463 | 0.333 | 64 | 2.341 | 0.132 | 0.178 |
| 42" | 4'-6" | 4'-6" | 4'-9" | 22" | 5'-3" | 5'-6" | 5'-6" | 0.560 | 0.560 | 0.370 | 77 | 2.878 | 0.180 | 0.243 |
| 48" | 5'-4" | 5'-4" | 5'-7" | 26" | 6'-3" | 6'-6" | 6'-6" | 0.743 | 0.743 | 0.407 | 111 | 3.663 | 0.235 | 0.317 |
| 54" | 5'-10" | 5'-10" | 5'-9" | 28" | 6'-7" | 6'-10" | 6'-10" | 0.865 | 0.865 | 0.444 | 126 | 4.283 | 0.297 | 0.401 |
| 60" | 6'-6" | 6'-6" | 6'-3" | 30" | 7'-3" | 7'-6" | 7'-6" | 1.042 | 1.042 | 0.481 | 145 | 5.090 | 0.367 | 0.495 |
| 66" | 7'-1" | 7'-1" | 6'-9" | 32" | 7'-10" | 8'-1" | 8'-1" | 1.210 | 1.210 | 0.518 | 169 | 5.917 | 0.444 | 0.589 |

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STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

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ENGLISH STANDARD DRAWING FOR
BRICK JUNCTION BOX
(WITH OPTIONAL MANHOLE)
12" THRU 66" PIPE

GENERAL NOTES:
CHAMFER ALL EXPOSED CORNERS 1".
USE CLASS "B" CONCRETE THROUGHOUT.
USE #4 BAR DOWELS AT 12" CENTERS.
MORTAR JOINTS 1/2" x 1/8" THICK.
CONCAVE TOP ALL EXPOSED JOINTS.
USE FORMS TO CONSTRUCT THE BOTTOM SLAB.
JAMBRO BRICK WILL BE PRINTED. CONCRETE BRICK OR 4" SOLID CONCRETE BLOCKS MAY BE USED IN LIEU OF CLAY BRICK FOR 8'-0" IN HEIGHT OR LESS. USE 8" WALL OVER 8'-0" IN HEIGHT. USE 12" WALL TO 6'-0" FROM TOP OF WALL AND 8" WALL FOR THE REMAINING 6'-0". ADJUST DIMENSIONS AND QUANTITIES ACCORDINGLY.
IF REINFORCED CONCRETE PIPE IS SET IN BASE SLAB OF BOX, ADD TO BASE AS SHOWN ON STANDARD NO. 840.00.
PROVIDE ALL JUNCTION BOXES OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER IN ACCORDANCE WITH STD. NO. 840.66.
ADJUST THE STEEL, CONCRETE AND BRICK MASONRY QUANTITIES TO INCLUDE THE ADDITION OF THE MANHOLE (I.E. DIAGONAL BARS SHORTENED AROUND OPENING IN TOP SLAB, ADDITIONAL VARIABLE HEIGHT BRICK MASONRY, OPENING IN TOP SLAB).
MAX. DEPTH OF THIS STRUCTURE FROM TOP OF BOTTOM SLAB TO TOP ELEVATION IS 12 FEET.

OPTIONAL MANHOLE

SECTION X-X
SECTION C-C OR D-D
SECTION Y-Y

DIMENSIONS AND QUANTITIES FOR BRICK JUNCTION BOXES

| PIPE | DIMENSIONS OF BOX AND PIPE | | | REINFORCEMENT BARS | | TOP SLAB DIMENSIONS | | CUBIC YARDS CONCRETE | | CUBIC YARDS BRICK MASONRY | | DEDUCTIONS FOR ONE PIPE | | |
|------|----------------------------|--------|-------|--------------------|--------|---------------------|--------|----------------------|-------------------|---------------------------|-------------|-------------------------|------|------|
| | D | A | B | NO. | LENGTH | E | F | TOP FT. OF HT. | BOTTOM FT. OF HT. | WALL PER FT. OF HT. | LBS. REINF. | CU. YDS. MIN. "H" | C.S. | R.C. |
| 12" | 2'-0" | 2'-0" | 2'-3" | 12" | 3'-1" | 3'-4" | 3'-4" | 0.412 | 0.591 | 0.263 | 0.020 | 0.032 | | |
| 15" | 2'-3" | 2'-3" | 2'-6" | 12" | 3'-1" | 3'-4" | 3'-4" | 0.412 | 0.657 | 0.263 | 0.031 | 0.047 | | |
| 18" | 2'-6" | 2'-6" | 2'-9" | 14" | 3'-0" | 3'-6" | 3'-6" | 0.498 | 0.514 | 0.296 | 0.044 | 0.065 | | |
| 24" | 3'-0" | 3'-0" | 3'-3" | 16" | 4'-1" | 4'-4" | 4'-4" | 0.695 | 1.176 | 0.362 | 0.078 | 0.113 | | |
| 30" | 3'-6" | 3'-6" | 3'-9" | 18" | 4'-5" | 4'-8" | 4'-8" | 0.807 | 1.481 | 0.395 | 0.122 | 0.170 | | |
| 36" | 4'-0" | 4'-0" | 4'-3" | 20" | 5'-1" | 5'-4" | 5'-4" | 1.053 | 1.959 | 0.461 | 0.176 | 0.238 | | |
| 42" | 4'-6" | 4'-6" | 4'-9" | 22" | 5'-9" | 6'-0" | 6'-0" | 1.333 | 2.503 | 0.527 | 0.240 | 0.323 | | |
| 48" | 5'-4" | 5'-4" | 5'-7" | 26" | 6'-8" | 6'-8" | 6'-8" | 1.546 | 2.940 | 0.562 | 0.312 | 0.422 | | |
| 54" | 5'-10" | 5'-10" | 5'-9" | 28" | 6'-11" | 7'-2" | 7'-2" | 1.902 | 3.502 | 0.609 | 0.396 | 0.535 | | |
| 60" | 6'-6" | 6'-6" | 6'-3" | 30" | 7'-7" | 7'-10" | 7'-10" | 2.272 | 4.113 | 0.658 | 0.489 | 0.660 | | |
| 66" | 7'-1" | 7'-1" | 6'-9" | 32" | 8'-2" | 8'-5" | 8'-5" | 2.624 | 4.778 | 0.708 | 0.561 | 0.798 | | |

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STATE OF NORTH CAROLINA
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RALEIGH, N.C.

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ENGLISH STANDARD DRAWING FOR
DROP INLET FRAME AND GRATES
FOR USE WITH STD. DWG.S 840.14 AND 840.15

SECTION G-G
SECTION H-H
SECTION E-E
SECTION F-F

PLAN OF FRAME
CAST IRON

PLAN OF GRATING
CAST IRON

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STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-1/2

ENGLISH STANDARD DRAWING FOR
MANHOLE FRAME AND COVER

PLAN OF FRAME
PLAN OF COVER
SECTION B-B

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