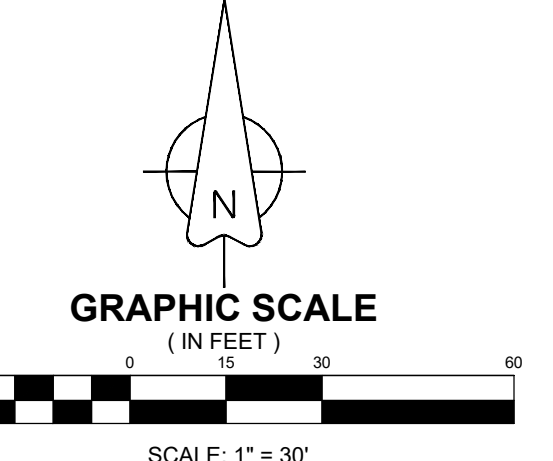
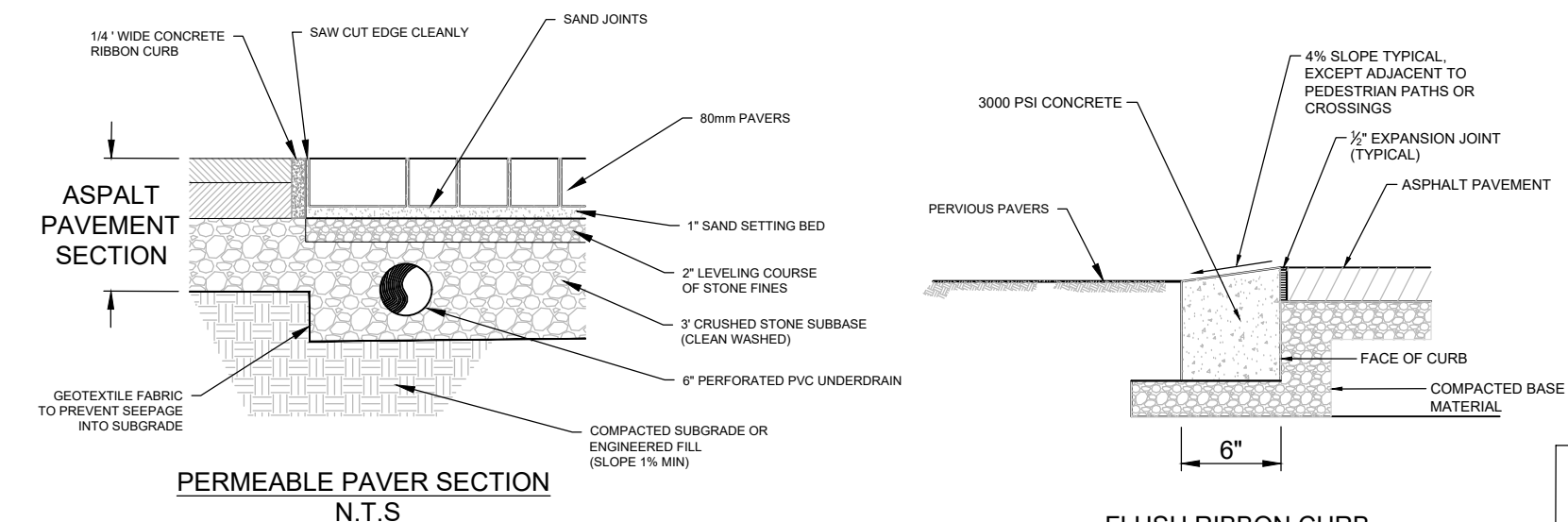


METRO WATER SERVICES - NASHVILLE, TN
- APPROVED FOR CONSTRUCTION -

THIS DOCUMENT HAS BEEN REVIEWED BY THE DEPARTMENT OF WATER AND SEWERAGE SERVICES OR CONTRACTED PROFESSIONAL AND IS HEREBY APPROVED FOR CONSTRUCTION. THIS APPROVAL SHALL NOT BE CONSTRUED AS AN ASSURANCE THAT THE IMPROVEMENTS DEPICTED IN THE DOCUMENT BEARING THIS STAMP WILL FUNCTION AS INTENDED.

Private Utility: n/a
 Public Sewer: n/a
 Public Water: 2020025281
 Date: 06/23/2020
 Engineer: [Signature]



LEGEND

---	EXISTING PROPERTY BOUNDARY
- - - -	PROPOSED LOT LINE
- · - · -	EXISTING MINOR CONTOUR
- - - -	EXISTING MAJOR CONTOUR

NOTE: THE FOLLOWING ARE REQUIRED AS A PART OF THE AS-BUILT PLAN:

- A CERTIFICATION LETTER FROM TN REGISTERED P.E. STATING THAT THE SITE HAS BEEN INSPECTED AND THAT THE STORMWATER MANAGEMENT SYSTEM AND STORMWATER CONTROL MEASURES (BOTH STRUCTURAL AND NON-STRUCTURAL) ARE COMPLETE AND FUNCTIONAL IN ACCORDANCE WITH THE PLANS APPROVED BY MWS.
- AN AS-BUILT LID SPREADSHEET C. HYDROLOGIC AND HYDRAULIC CALCULATIONS FOR AS-BUILT CONDITIONS, AS REQUIRED.
- AS-BUILT DRAWINGS SHOWING FINAL TOPOGRAPHIC FEATURES OF ALL THESE FACILITIES. THIS SHALL INCLUDE INVERT ELEVATIONS OF OUTLET CONTROL STRUCTURES.
- ANY DEVIATIONS FROM THE APPROVED PLANS SHALL BE NOTED ON AS-BUILT DRAWINGS SUBMITTED WITH THE AS-BUILT PLAN AND SHALL BE REGISTERED TO THE TN STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NAD83). DATA SHOULD BE PLACED IN SEPARATE LAYERS AND SHOULD BE LABELED / NAMED FOR EASY IDENTIFICATION.
- CUT AND FILL BALANCE CERTIFICATION FOR FLOODPLAIN AND SINKHOLE ALTERATIONS.
- WATER QUALITY BUFFERS SHALL BE SURVEYED AND INCLUDED WITH THE AS-BUILT SUBMITTAL.
- ANY PUBLIC TO BECOME THE RESPONSIBILITY OF METRO TO MAINTAIN STORMWATER INFRASTRUCTURE SHALL BE VIDEO-INSPECTED TO VERIFY PROPER INSTALLATION WITH THE VIDEO RECORDING AND ANY ASSOCIATED INSPECTION REPORT SUBMITTED AS PART OF AS-BUILT RECORD.
- ADDITIONAL TESTING MAY BE REQUIRED AS IF WARRANTED BY VIDEO INSPECTION.

SITE DATA

COUNCIL DISTRICT: 25

OWNER: RICHARD REEDER HORTON
 1811 KIMBARK DRIVE
 NASHVILLE, TN 37215

DEVELOPER: JAMES CARBINE
 615-861-9995
 EMAIL: J.CARBINE@CARBINECOMPANY.COM

CIVIL ENGINEER: T-SQUARE ENGINEERING
 701 W MAIN STREET
 FRANKLIN, TN 37064
 615-678-8212

SURVEYOR: DALE & ASSOCIATES (STEVE MATTHEWS, RLS)
 516 HEATHER PLACE
 NASHVILLE, TENNESSEE 37206
 615-297-5168

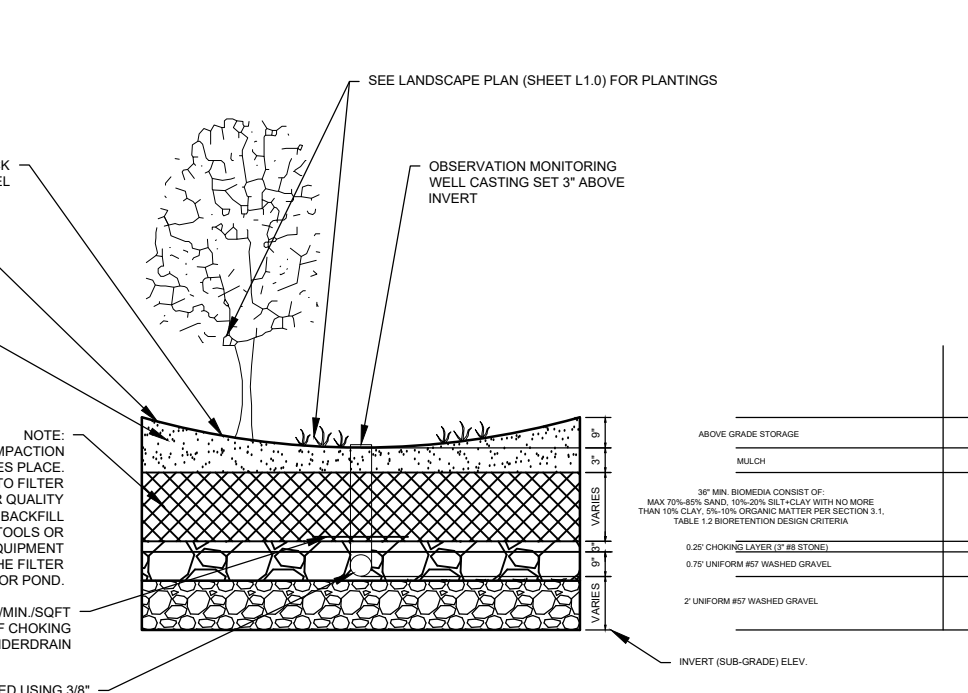
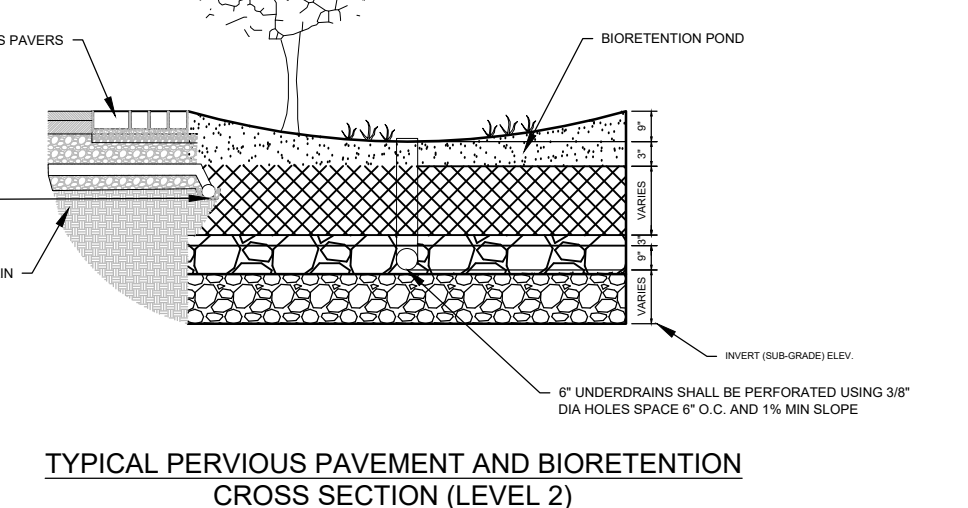
FLOOD NOTE: THIS PROJECT IS NOT LOCATED WITHIN A FLOOD HAZARD AREA AS DEPICTED ON THE CURRENT FLOOD INSURANCE RATE MAP (FIRM) NUMBER 47037C03568H, DATED APRIL 5, 2017.

SITE BENCHMARK: MAG SPIKE IN POWER POLE
 ELEVATION: 584.73
 NAVD-83

NOTE: VEHICULAR TRAFFIC SHALL BE PROHIBITED ON THE PERVIOUS PAVEMENT UNTIL THE SITE IS STABLE TO PREVENT MUD FROM BEING DEPOSITED BY VEHICLES.

CONTRACTOR, ENGINEER, OR OWNERS REPRESENTATIVE SHALL NOTIFY MWS-DEVELOPMENT REVIEW AT LEAST 24 HOURS PRIOR TO THE INSTALLATION OF THE PLANTING SOIL FILTER BED AT THE COMPLETION OF INSTALLATION. THE ABOVE REFERENCED PERSON WILL COLLECT ONE SAMPLE PER BIORETENTION BED FOR ANALYSIS AND CONFIRMATION OF THE SOIL CHARACTERISTICS AS DEFINED BY GIP-01, FILTER MEDIA AND SURFACE COVER, SECTION 6.6, PAGE 20.

NOTE: THIS PLAN IS A REVISION OF THE BIORETENTION FOREBAY AREAS ON THE APPROVED PLAN SWGR #2018003158



NOTE: FOREBAY BOTTOM ELEVATION SHALL BE THE SAME AS THE BIORETENTION FOREBAY BOTTOM ELEVATION

BIORETENTION #	AREA (SQ. FT.)	PERVIOUS PAVEMENT (SQ. FT.)	BIORETENTION MEDIA (CU. YD.)	BIORETENTION MEDIA (CU. YD.)	BIORETENTION MEDIA (CU. YD.)	BIORETENTION MEDIA (CU. YD.)	BIORETENTION MEDIA (CU. YD.)
BIORETENTION #1A	180.52	180.52	180.52	180.52	180.52	180.52	180.52
BIORETENTION #1B	180.52	180.52	180.52	180.52	180.52	180.52	180.52
BIORETENTION #1C	180.52	180.52	180.52	180.52	180.52	180.52	180.52
BIORETENTION #1D	180.52	180.52	180.52	180.52	180.52	180.52	180.52
BIORETENTION #1E	180.52	180.52	180.52	180.52	180.52	180.52	180.52
BIORETENTION #1F	180.52	180.52	180.52	180.52	180.52	180.52	180.52
BIORETENTION #1G	180.52	180.52	180.52	180.52	180.52	180.52	180.52
BIORETENTION #1H	180.52	180.52	180.52	180.52	180.52	180.52	180.52
BIORETENTION #1I	180.52	180.52	180.52	180.52	180.52	180.52	180.52
BIORETENTION #1J	180.52	180.52	180.52	180.52	180.52	180.52	180.52

BIORETENTION NOTES

- BIOMEDIA TO CONSIST OF:
 - MAX 70% - 85% SAND
 - 10% - 20% SILT + CLAY WITH NO MORE THAN 10%
 - 5% - 10% ORGANIC MATTER PER SECTION 3.
- ABOVE GROUND DETENTION
- WATER QUALITY INFRASTRUCTURE
- PUBLIC STORM SEWER INFRASTRUCTURE
- CUT & FILL IN THE FLOODPLAIN
- SINK HOLE ALTERATIONS
- BIORETENTION AREA
- PERVIOUS PAVERS

a. A CERTIFICATION LETTER FROM TN REGISTERED P.E. STATING THAT THE SITE HAS BEEN INSPECTED AND THAT THE STORMWATER MANAGEMENT SYSTEM AND STORMWATER CONTROL MEASURES (BOTH STRUCTURAL AND NON-STRUCTURAL) ARE COMPLETE AND FUNCTIONAL IN ACCORDANCE WITH THE PLANS APPROVED BY MWS.

b. HYDROLOGIC AND HYDRAULIC CALCULATIONS FOR AS-BUILT CONDITIONS, AS REQUIRED.

c. AS-BUILT DRAWINGS SHOWING THE FINAL TOPOGRAPHIC FEATURES OF ALL THESE FACILITIES. THIS SHALL INCLUDE INVERT ELEVATIONS OF OUTLET CONTROL STRUCTURES.

d. ANY DEVIATIONS FROM THE APPROVED PLANS SHALL BE NOTED ON AS-BUILT DRAWINGS SUBMITTED.

e. COPY OF AS-BUILT PLAN IN CAD FILE ON A CD AND SHOULD BE REGISTERED TO THE TN STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM (NAD83). DATA SHOULD BE PLACED IN SEPARATE LAYERS AND SHOULD BE LABELED / NAMED FOR EASY IDENTIFICATION.

f. CUT AND FILL BALANCE CERTIFICATION FOR FLOODPLAIN AND SINKHOLE ALTERATIONS.

g. WATER QUALITY BUFFERS SHALL BE SURVEYED AND INCLUDED WITH THE AS-BUILT SUBMITTAL.

h. ANY PUBLIC TO BECOME THE RESPONSIBILITY OF METRO TO MAINTAIN STORMWATER INFRASTRUCTURE SHALL BE VIDEO-INSPECTED TO VERIFY PROPER INSTALLATION WITH VIDEO RECORDING AND ANY ASSOCIATED INSPECTION REPORT SUBMITTED AS PART OF AS-BUILT RECORD.

i. ADDITIONAL TESTING MAY BE REQUIRED AS IF WARRANTED BY VIDEO INSPECTION.

THE ENGINEER SHALL CONTACT STORMWATER DEVELOPMENT REVIEW STAFF FOR SUBMITTAL REQUIREMENTS.

PERMITS:
 GRADING PERMIT NO. SWGR 2020025281
 (THIS PLAN IS REVISING THE BIORETENTION FOREBAY AREA OF THE APPROVED GRADING PLANS SWGR# 2018003158)
 DPC CASE NO. 2018-058-02
 COUNCIL ORDINANCE NO. 18-017-886
 STORMWATER GRADING NO. T2018003158
 TDEC DOC NO. TN6242312
 TDEC APP NO. NR1804.007

SPECIFIC PLAN DEVELOPMENT SUMMARY

USE	MULTI-FAMILY (SINGLE FAMILY DWELLINGS)
PROJECT AREA	1.54 ACRES
PROPERTY ZONING: R15	SURROUNDING ZONING: R15, R10, RS10
MINIMUM LOT SIZE	NOT APPLICABLE
# OF RESIDENTIAL UNITS	6 TOTAL UNITS/ 3.9 UNITS PER ACRE
FAR	0.50 MAX
ISR	0.50 MAX
STREET SETBACKS	10' MEASURED FROM NORTH PROPERTY LINE 20' MEASURED FROM SOUTH PROPERTY LINE
SIDE YARD	10' MIN PROPERTY LINE (EAST & WEST)
HEIGHT STANDARDS	2 STORIES IN 35' TO THE ROOFLINE

PARKING AND ACCESS

RAMP LOCATION AND NUMBR	ACCESS VIA KIMBARK DRIVE
DISTANCE TO NEAREST EXISTING RAMP	30' NORTH KIMBARK DRIVE
DISTANCE TO INTERSECTION	+/- 200' NORTH
REQUIRED PARKING	2 STALLS/UNIT @ 6 UNITS = 12 REQUIRED STALLS
PROVIDED PARKING	12 COVERED STALLS & 4 OPEN SPOTS

STABILIZATION NOTE:
 ALL SLOPES 3:1 OR GREATER TO BE STABILIZED WITH TYPE II EROSION CONTROL MATTING OR EQUIVALENT WITHIN 7 DAYS.

NOTE:
 THERE SHALL BE NO MOWING, CLEARING, GRADING, CONSTRUCTION, STORAGE, OR DISTURBANCE OF VEGETATION ALLOWED IN THE RIPARIAN BUFFER EXCEPT AS PERMITTED BY THE CITY ENGINEER, OR HIS DESIGNEE.

OWNER OF RECORD
 RICHARD REEDER HORTON
 METRO TAX MAP 131-03, PARCEL 61

APPLICANT
 T-SQUARE ENGINEERING
 701 WEST MAIN ST
 FRANKLIN, TN 37064
 615.678.8212

GRADING AND DRAINAGE PLAN

1811 KIMBARK DRIVE
 NASHVILLE, TN 37215
 DAVIDSON COUNTY, TENNESSEE

REVISIONS PER STORMWATER COMMENTS

NO.	DATE	REVISIONS PER STORMWATER COMMENTS
1	5-12-20	
2	6-10-20	

DATE: 4-20-2020
SCALE: AS SHOWN
DRAWN BY: T-SQUARE
REVIEWER:

REVISIONS PER STORMWATER COMMENTS

NO.	DATE	REVISIONS PER STORMWATER COMMENTS
1	5-12-20	
2	6-10-20	

6-10-20

PROJECT
 19-1209

SHEET

T-SQUARE ENGINEERING
 701 WEST MAIN STREET • FRANKLIN, TN • 615-678-8212 • WWW.T2-ENG.COM

