



April 22, 2020

Jillian M. Harris, AICP
Planner I
Planning Department
1 Junkins Ave
Portsmouth, NH 03801

RE: Chase Bank -1574 Woodbury Ave
TAC Comments

Dear Ms. Harris,

We are in receipt of an Application Review prepared by your office, dated March 3th, 2020. The following are responses to the previously mentioned comment letter:

TAC Comments:

Comment 1 Existing utilities (water, fire suppression, storm drain, sewer, gas, power, communications) should all be reused. These will need to be shown in a more complete way on a plan of its own for clarity.

Response 1 **A proposed utility plan has been provided, see sheet C-4.**

Comment 2 If the fire service is not being used, it will need to be abandoned out in Woodbury Ave and the City will require milling and repaving of the area as the pavement in the road is new.

Response 2 **The proposed project will abandon the fire service at the main. A note has been provided on the demolition plan, see sheet C-1.**

Comment 3 The existing grease trap will need to be cleaned and then filled with sand.

Response 3 **A note has been added to ensure the grease trap is properly cleaned and filled per requirements, see sheet C-1.**

Comment 4 The parking stall at the end of a row of parking spaces should be made wider if possible to facilitate exiting the vehicle.

Response 4 **The parking and site layout have been revised to address these issues, see sheet C-2.**

Comment 5 How is stormwater being treated to remove pollutants?



- Response 5** The project intends to install a new water quality structure designated as a CDS Unit by Contech, which meets the state's requirements for 80% TSS removal rate. It will be installed within the existing storm conveyance system, refer to stormwater report for details.
- Comment 6** Please reduce hatching, it makes plan very difficult to read.
- Response 6** The hatching has been reduced on all sheets to be easier to read.
- Comment 7** Is there a lighting plan?
- Response 7** A lighting plan has been added, see sheet C-8 & C-9.
- Comment 8** Storm drainage and sewer pipes not being reused should be either removed or flow-filled.
- Response 8** The storm drainage an sewer pipes notes have been revised, see sheet C-1.
- Comment 9** The drive up ATM should have a full bypass lane for any vehicle that needs to get out of the queue. If a driver mistakenly enters the drive-thru they need to be able to bypass any queued vehicles.
- Response 9** The site layout has been revised to address the issues, see sheet C-2.
- Comment 10** Parking lot aisles with more than 7 spaces should not be dead-ended. Drivers are not able to see if a space is empty or whether it is occupied by a smaller vehicle. Perhaps an outlet can be provided into the ATM bypass lane.
- Response 10** The site layout has been revised to address the issues, see sheet C-2.
- Comment 11** A NO PARKING sign should be provided at the head of the HP access aisle, if there is room between the walkway and the ATM drive lane.
- Response 11** A No Parking sign has been added to the site plan see sheet C-2.
- Comment 12** A trip generation memo should be provided, comparing the proposed new bank use to the previous restaurant use.
- Response 12** A trip generation memo has been provided.
- Comment 13** No stormwater maintenance plan has been provided.
- Response 13** A comprehensive stormwater report has been provided.
- Comment 14** A landscape plan shall be provided and shade trees should be included to minimize the heat-island effect of the larger site.
- Response 14** A landscape plan has been provided and shade trees have been included, see sheet LP-1 & LP-2.

Comment 15 A statement that lists green building components and systems is required per Section 2.5.3.1A of the Site Plan Regs.

Response 15 A statement has been provide listing the green building components and systems.

Comment 16 The required notes shall be added to the Site Plan per Sections 2.5.4.2E, 2.13.3 and 2.13.4 (included on the Site Plan checklist).

Response 16 The notes have been added to the cover sheet, see sheet CV-1

If you should have any questions or require additional information, please do not hesitate to contact me at (857) 262-0191 or aroscoe@core-states.com.

Sincerely,

Alan Roscoe, P.E.
Senior Project Manager



DESIGN AND DEVELOPMENT CONTACTS:

APPLICANT	J.P. MORGAN CHASE BANK 1450 BRICKELL AVENUE 3RD FLOOR MIAMI, FL 33131 CONTACT: CHRIS FOIT (786) 473-1769
OWNER	RICHARD FUSEGNI CONTACT: SCOTT MITCHELL (603) 475-377
CIVIL ENGINEER	CORE STATES INC. 9 GALEN STREET, SUITE 117 WATERTOWN, MA 02472 CONTACT: ALAN D. ROSCOE, P.E. (857) 500-4702
ARCHITECT	CORE STATES INC. 201 S. MAPLE AVE AMBLER, PA 19002 CONTACT: KEN MACKENZIE (267) 464-8048
SURVEYOR	ALLEN & MAJOR ASSOCIATES, INC. 100 COMMERCE WAY, SUITE 5 WOBBURN, MA 01801 CONTACT: ANDREW RUGGLES (781) 362-5313
GOVERNING AGENCIES CONTACTS:	
PLANNING	PLANNING DEPARTMENT 1 JUNKINS AVENUE, 3RD FLOOR PORTSMOUTH, NH 03801 CONTACT: JULIET WALKER, PLANNING DIRECTOR (603) 610-7216
BUILDING	INSPECTION DEPARTMENT 1 JUNKINS AVENUE PORTSMOUTH, NH 03801 CONTACT: ROBERT MARSLIA, CHIEF BUILDING INSPECTOR (603) 610-7243
FIRE AUTHORITY	FIRE DEPARTMENT 170 COURT STREET PORTSMOUTH, NH 03801 CONTACT: TODD GERMAIN, INTERIM FIRE CHIEF (603) 427-1515
UTILITY CONTACTS:	
GAS	UNITIL 6 LIBERTY LANE WEST HAMPTON, NH 03842 (866) 933-3820
ELECTRIC AND FIRE ALARM	EVERSOURCE 55 BEARFOOT ROAD NORTHBOROUGH, MA 01532 (800) 322-3223
WATER	PORTSMOUTH PUBLIC WORKS DEPARTMENT 680 PEVERLY HILL ROAD PORTSMOUTH, NH 03801 (603) 427-1530
SEWER	PORTSMOUTH PUBLIC WORKS DEPARTMENT 680 PEVERLY HILL ROAD PORTSMOUTH, NH 03801 (603) 427-1530
TELEPHONE	VERIZON 185 FRANKLIN STREET BOSTON, MA 02107 (800) 870-9999
CABLE	COMCAST 179 W MAIN STREET AYER, MA 01432 (800) 266-2278

NOTES:

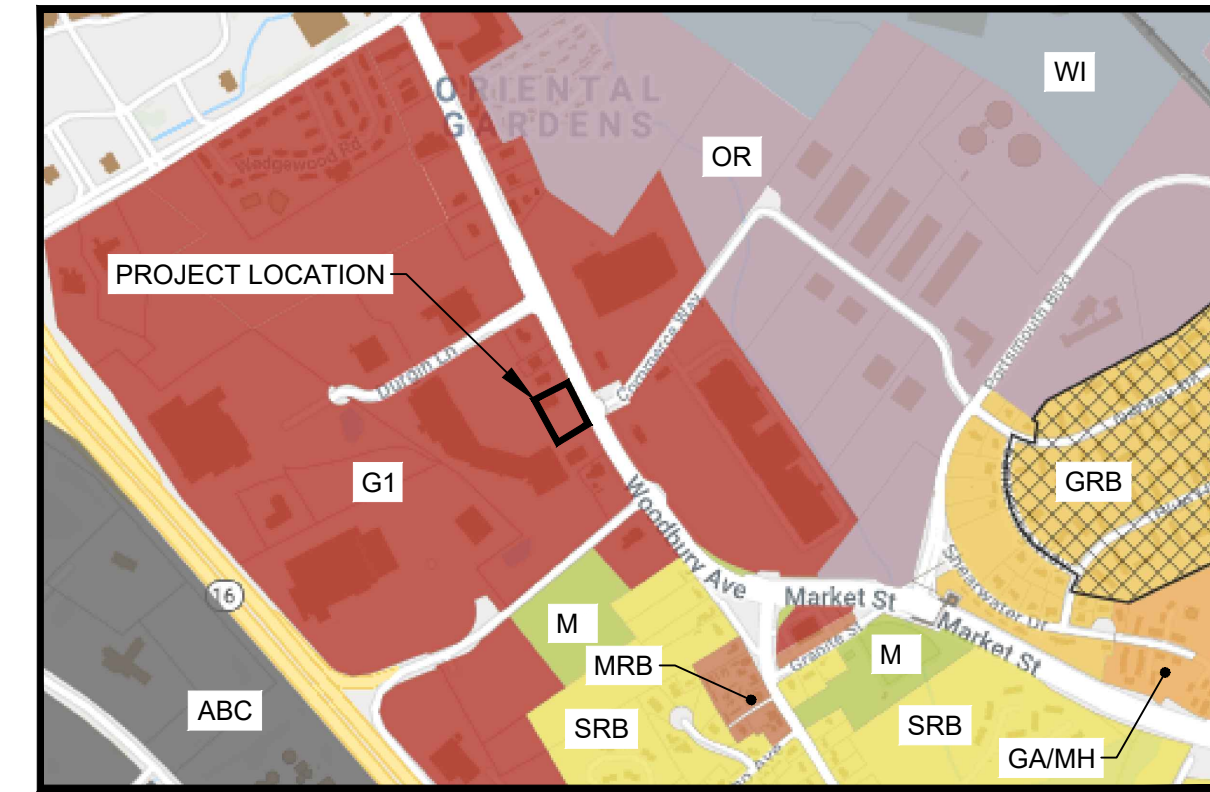
- ALL CONDITIONS ON THIS PLAN SHALL REMAIN IN EFFECT PERPETUITY PURSUANT TO THE REQUIREMENTS TO THE SITE PLAN REVIEW REGULATIONS.
- THIS SITE PLAN SHALL BE RECORDED IN THE ROCKINGHAM COUNTY REGISTRY OF DEEDS.
- ALL IMPROVEMENTS SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE PLAN BY THE OWNER AND ALL FUTURE OWNERS. NO CHANGES SHALL BE MADE TO THIS SITE PLAN WITHOUT THE EXPRESS APPROVAL FROM THE PORTSMOUTH PLANNING DIRECTOR.
- THE PROPERTY OWNER AND ALL FUTURE PROPERTY OWNERS SHALL BE RESPONSIBLE FOR THE MAINTENANCE, REPAIR AND REPLACEMENT OF ALL SCREENING AND LANDSCAPE MATERIALS.
- ALL PLANT MATERIAL SHALL BE TENDED AND MAINTAINED IN A HEALTHY GROWING CONDITION, REPLACED WHEN NECESSARY, AND KEPT FREE OF REFUSE AND DEBRIS. ALL REQUIRED FENCES AND WALLS SHALL BE MAINTAINED IN GOOD REPAIR.
- THE PROPERTY OWNER SHALL BE RESPONSIBLE TO REMOVE AND REPLACE DEAD OR DISEASED PLANT MATERIALS IMMEDIATELY WITH THE SAME TYPE, SIZE AND QUANTITY OF PLANT MATERIALS AS ORIGINALLY INSTALLED, UNLESS ALTERNATIVE PLANTINGS ARE REQUESTED, JUSTIFIED AND APPROVED BY THE PLANNING BOARD OR PLANNING DIRECTOR.
- AN AMENDED SITE PLAN SHALL BE RECORDED AT THE RCRD AS ABOVE, PROVIDED THAT IN THE CASE OF A PLAN AMENDMENT THAT IS GRANTED APPROVAL BY THE PLANNING DIRECTOR OR TAC WITHOUT A HEARING BEFORE THE PLANNING BOARD, THE RECORDING OF A NOTICE OF APPROVAL SHALL BE SUFFICIENT.
- THE APPLICANT SHALL BE THE REQUIRED SITE PLANS PRE-APPROVED BY THE REGISTRY OF DEEDS PRIOR TO SUBMITTING MYLARS TO THE PLANNING DEPARTMENT FOR SIGNATURE AND RECORDING.

SITE PLAN APPROVAL FOR



PROPOSED CHASE BANK

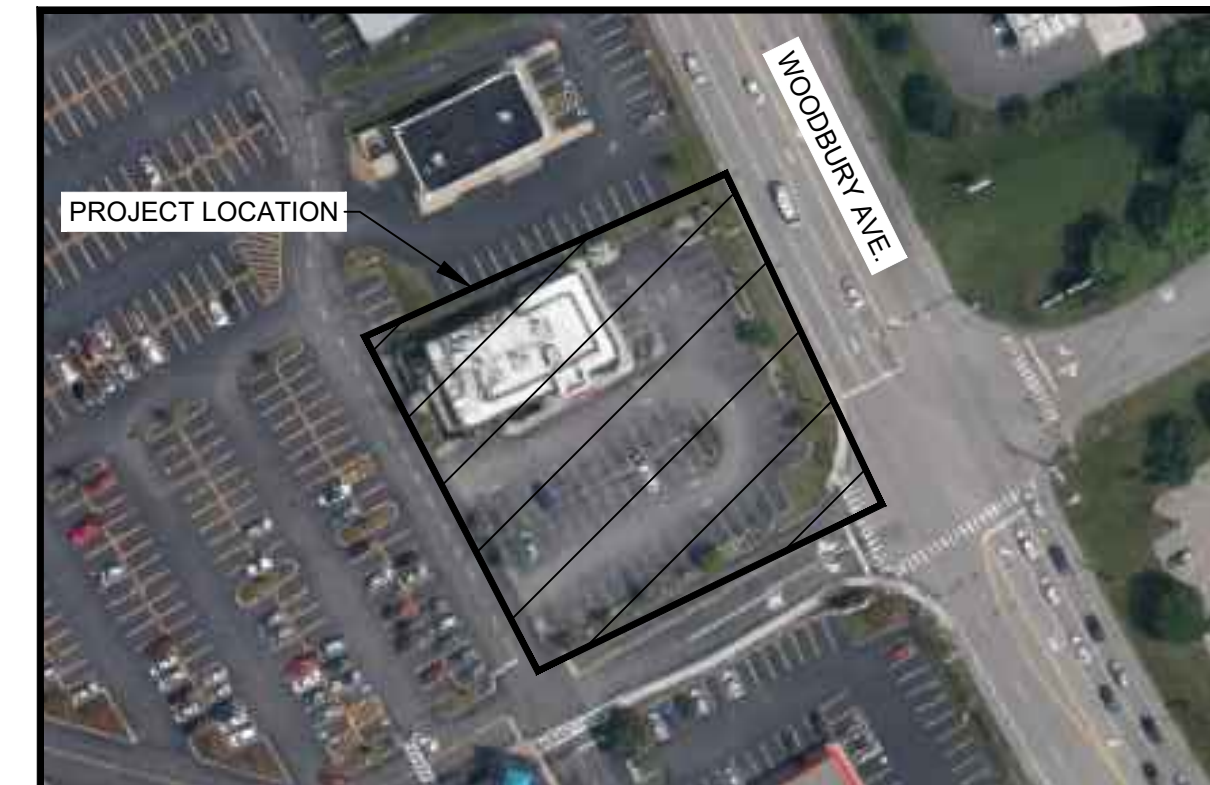
1574 WOODBURY AVENUE
CITY OF PORTSMOUTH
ACCESSORS MAP 238, LOT 17
ROCKINGHAM COUNTY, NEW HAMPSHIRE 03801



ZONING MAP

1" = 1,000'

- G1 - GATEWAY CORRIDOR DISTRICT
- M - MUNICIPAL
- SRB - SINGLE RESIDENCE B
- GRB - GENERAL RESIDENCE B
- MRB - MIXED RESIDENTIAL BUSINESS
- OR - OFFICE RESEARCH
- ABC - AIRPORT BUSINESS COMMERCIAL
- GA/MH - GARDEN APARTMENT/ MOBILE HOME PARK
- WI - WATERFRONT INDUSTRIAL



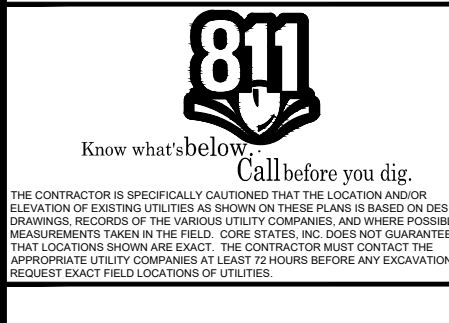
VICINITY MAP

1" = 100'

SHEET INDEX			
PAGE NUMBER	DESCRIPTION	PREPARED BY	REVISION NUMBER
CIVIL PLANS			
CV-1	COVER SHEET	CORE STATES	△ △ △ △ △ △ △ △ △ △ △ △
CV-2	GENERAL NOTES	CORE STATES	
C-1	DEMOLITION PLAN	CORE STATES	
C-2	SITE PLAN	CORE STATES	
C-3	GRADING PLAN	CORE STATES	
C-4	UTILITY PLAN	CORE STATES	
C-5	DRAINAGE AREA MAPS	CORE STATES	
C-6	SOIL EROSION & SEDIMENT CONTROL PLAN	CORE STATES	
C-7	SOIL EROSION & SEDIMENT CONTROL DETAILS	CORE STATES	
C-8	LIGHTING PLAN	CORE STATES	
C-9	LIGHTING DETAILS	CORE STATES	
CD-1 - CD-3	CONSTRUCTION DETAILS	CORE STATES	
LP-1	LANDSCAPE PLANTING	EVERGREEN DESIGN GROUP	
LP-2	PLANTING DETAILS & SPECIFICATIONS	EVERGREEN DESIGN GROUP	
1 OF 1	EXISTING CONDITIONS SURVEY	ALLEN & MAJOR ASSOCIATES, INC.	

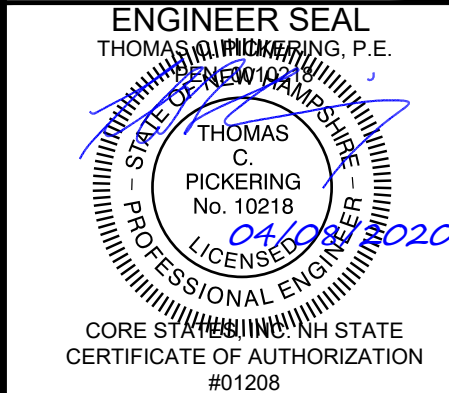


DOCUMENTS PREPARED BY CORE STATES, INC. INCLUDING THIS DOCUMENT ARE TO BE USED ONLY FOR THE SPECIFIC PROJECT AND SPECIFIC USE FOR WHICH THEY WERE INTENDED. ANY EXTENSION OF USE TO ANY OTHER PROJECTS, BY OWNER OR BY ANY OTHER PARTY, WITHOUT THE EXPRESS WRITTEN CONSENT OF CORE STATES, INC. IS DONE UNLAWFULLY AND AT THE USER'S OWN RISK. IT IS USED IN A WAY OTHER THAN THAT SPECIFICALLY INTENDED. USER WILL HOLD CORE STATES, INC. HARMLESS FROM ALL CLAIMS AND LOSSES.



REV	DATE	COMMENT	BY
1	4/6/2020	RESUBMISSION TO TOWNSHIP	KGF

DOCUMENT
SITE PLAN APPROVAL FOR CHASE BANK
SITE LOCATION
1574 WOODBURY AVENUE,
PORTSMOUTH, NH
03801



SHEET TITLE
COVER SHEET
JOB #: JPM 27086
DATE: 04/03/2020
SCALE: AS NOTED
DRAWN BY: DJR
CHECKED BY: AR
SHEET NO.
CV-1

STANDARD ABBREVIATIONS table with columns for symbol and description. Includes entries like AC (ACRES), ADA (AMERICANS WITH DISABILITY ACT), ARCH (ARCHITECTURAL), etc.

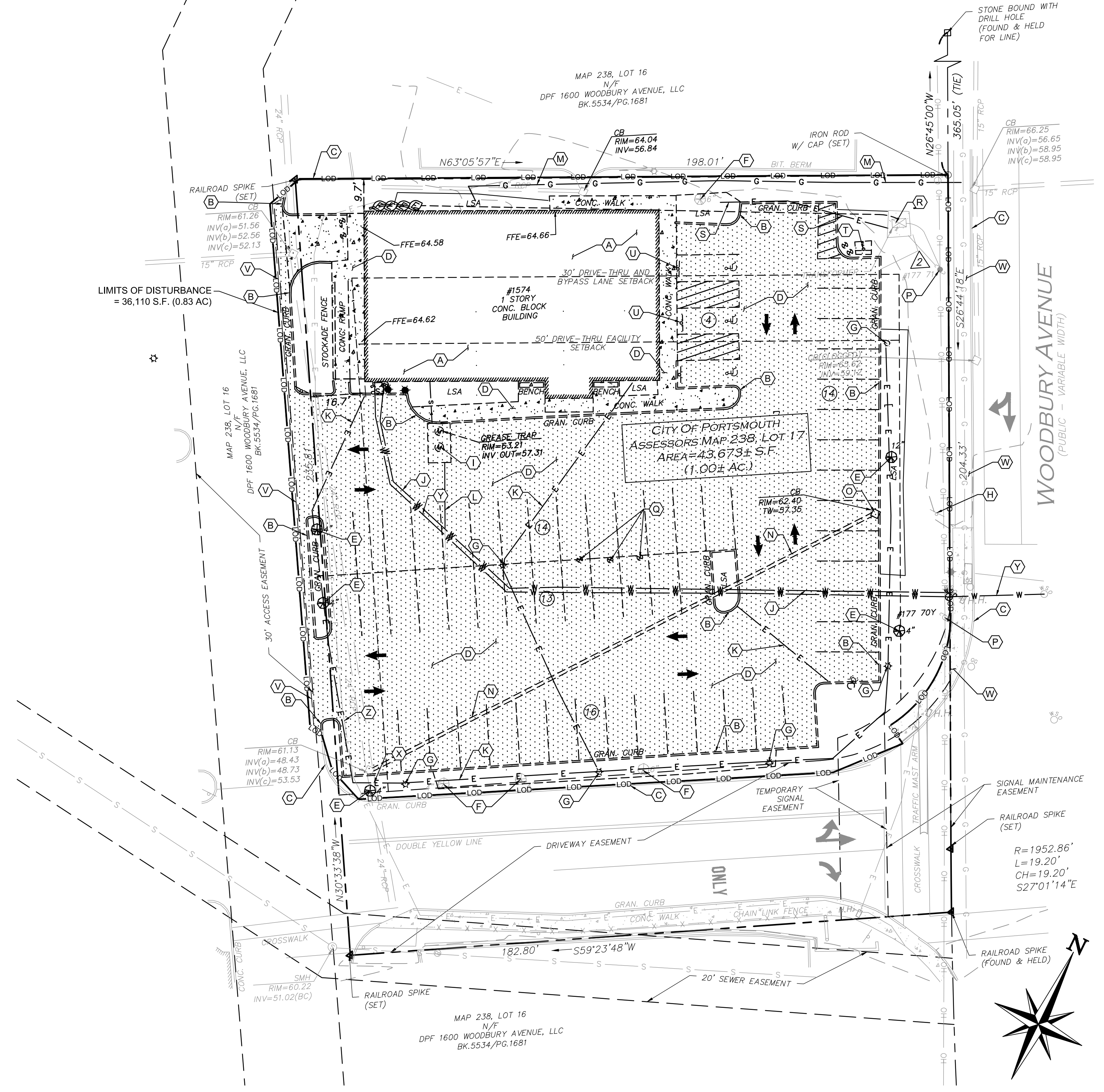
GENERAL SITE NOTES: 1. ALL CONSTRUCTION MATERIALS AND TECHNIQUES OF INSTALLATION SHALL MEET PERFORMANCE VALUES OF THE MATERIALS SPECIFIED AND COMPLY WITH ALL AUTHORITY HAVING JURISDICTION REGULATIONS AND CODES AND O.S.H.A. STANDARDS.

REVISIONS. 30. SAFETY NOTICE TO CONTRACTOR: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK.

AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE VERIFY EXISTING CONDITIONS AND PRIOR TO ANY WORKING ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK.

EXCEPTIONS TO THIS MUST BE APPROVED IN WRITING BY THE AUTHORITY HAVING JURISDICTION. 19. A MINIMUM HORIZONTAL DISTANCE OF 3 FEET, UNLESS OTHERWISE NOTED IN THE PLANS, SHALL BE MAINTAINED BETWEEN WATER LINES AND OTHER UNDERGROUND OF A NONSANITARY NATURE (GAS, ELECTRIC, ETC.) EXCEPTIONS TO THIS MUST BE APPROVED IN WRITING BY THE AUTHORITY HAVING JURISDICTION.

CLIENT CHASE BANK logo, DOCUMENTS PREPARED BY CORE STATES, INC., SITE PLAN APPROVAL FOR CHASE BANK, ENGINEER SEAL THOMAS C. PICKERING, No. 10218, SHEET TITLE GENERAL NOTES, SHEET NO. CV-2



DEMO PLAN
SCALE 1" = 20'

DEMOLITION KEY NOTES:

- A. EXISTING BUILDING TO BE REMOVED.
- B. EXISTING CURB TO BE REMOVED.
- C. EXISTING CURB TO REMAIN. CONTRACTOR TO PROTECT IN PLACE.
- D. EXISTING HARDSCAPE TO BE REMOVED.
- E. EXISTING TREE TO BE REMOVED.
- F. EXISTING TREE TO REMAIN. CONTRACTOR TO PROTECT IN PLACE.
- G. EXISTING LIGHT POLE TO BE REMOVED.
- H. EXISTING SIGN TO REMAIN. CONTRACTOR TO PROTECT IN PLACE.
- I. EXISTING GREASE TRAP TO BE CLEAN, FILLED WITH SAND AND ABANDONED IN PLACE. CONTRACTOR TO CLEANOUT GREASE TRAP AND FILL WITH SAND. CONTRACTOR TO COORDINATE WITH LOCAL JURISDICTION FOR REQUIREMENTS.
- J. EXISTING DOMESTIC WATER LINE TO BE REMOVED AND CAPPED AT PROPERTY LINE TO BE REUSED FOR PROPOSED WATER SERVICE. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY AND LOCAL JURISDICTION PRIOR TO COMMENCING WORK.
- K. EXISTING LIGHTPOLE ELECTRICAL LINES TO BE CUT, CAPPED AND ABANDONED IN PLACE. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY PRIOR TO COMMENCING WORK.
- L. EXISTING SEWER TO BE CUT AND CAPPED 10 FEET DOWNSTREAM OF EXISTING GREASE TRAP. CONTRACTOR TO PROVIDE LOCATION, SIZE AND INVERT TO THE ENGINEER OF RECORD PRIOR TO COMMENCING OF PROPOSED WORK.
- M. EXISTING GAS SERVICE LINE TO BE CUT AND CAPPED AT PROPERTY LINE. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY PRIOR TO BEGINNING OF ANY WORK.
- N. EXISTING STORM LINE TO BE REMOVED.
- O. EXISTING CATCH BASIN TO BE REMOVED.
- P. EXISTING UTILITY POLE TO REMAIN AND TO BE PROTECTED IN PLACE.
- Q. EXISTING BOLLARDS TO BE REMOVED.
- R. EXISTING TRANSFORMER TO REMAIN AND PROTECTED IN PLACE. CONTRACTOR TO VERIFY IF THE EXISTING TRANSFORMER IS REQUIRED FROM THE UTILITY COMPANY AND ARCHITECTURAL DRAWINGS. IF A NEW SERVICE IS REQUIRED, CONTRACTOR TO COORDINATE WITH UTILITY COMPANY TO OBTAIN PROPER SERVICE.
- S. EXISTING ELECTRICAL CONDUITS AND METERS TO BE REMOVED AS NECESSARY.
- T. EXISTING PYLON SIGN TO BE RETROFITTED TO MATCH PROPOSED SIGNAGE.
- U. EXISTING HANDICAP SIGNS TO BE REMOVED.
- V. PROPOSED SAWCUT LINE.
- W. EXISTING PUBLIC RIGHT-OF-WAY SIDEWALK TO REMAIN. CONTRACTOR TO PROTECT IN PLACE.
- X. EXISTING 24" RCP TO BE REMOVED FOR PROPOSED WATER QUALITY CDS UNIT BY CONTECH PER PROPOSED UTILITY DESIGN. CONTRACTOR TO REMOVE EXISTING EXISTING PIPE AS NECESSARY TO INSTALL UNIT. ANY DAMAGED TO EXISTING STRUCTURES OR PIPES ARE TO BE REPLACED.
- Y. EXISTING FIRE LINE TO BE REMOVED AT EXISTING WATER MAIN TAP. CONTRACTOR TO COORDINATE WITH AUTHORITATIVE JURISDICTION AND UTILITY COMPANY PRIOR TO COMMENCING WORK.
- Z. EXISTING ELECTRICAL CONDUIT TO REMAIN AND PROTECTED IN PLACE. CONTRACTOR TO VERIFY FINAL TERMINATION OF ELECTRICAL BEFORE BEGINNING OF WORK.

DEMOLITION NOTES:

- 1. THE TOTAL LIMITS OF DISTURBANCE FOR THIS PROJECT IS 36,110 S.F. (0.83 AC).
- 2. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION AND FOR CALLING THE APPROPRIATE ONE-CALL CENTER AT LEAST 72 HOURS IN ADVANCE OF ANY EXCAVATION.

MAINTENANCE NOTES:

ALL MEASURES STATED ON THIS PLAN SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

- 1. INLET PROTECTION SHALL BE REPAIRED TO THEIR ORIGINAL CONDITION IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE INLET PROTECTION WHEN CLOGGING BECOMES APPARENT.
- 2. SILT SOXX SHALL BE REPAIRED OR REPLACED TO THEIR ORIGINAL CONDITION IF DAMAGED.

DEMOLITION LEGEND

- PROPERTY BOUNDARY LINE
- CENTER LINE OF EXISTING ROADWAY
- ADJOINING PROPERTY LINE
- - - EXISTING EDGE OF PAVEMENT
- X - X - X - X - EXISTING FENCE
- BLOCK 101 LOT 7
- - - EXISTING 5' INTERVAL CONTOUR LINE
- - - EXISTING 1' INTERVAL CONTOUR LINE
- EXISTING TREE
- EXISTING TREE LINE
- EXISTING GAS MAIN
- EXISTING UTILITY POLE
- EXISTING STORM STRUCTURES
- EXISTING SANITARY STRUCTURES
- EXISTING WATER MAIN
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING UNDERGROUND ELECTRIC
- EXISTING TELEPHONE
- EXISTING OVERHEAD WIRES
- EXISTING SANITARY
- EXISTING STORM
- EXISTING BUILDING
- DEMO CURB
- DEMO STRIPING
- DEMO TREE
- DEMO UTILITY POLE
- DEMO HARDSCAPE
- PROPOSED SAWCUT LINE
- LIMITS OF DISTURBANCE

E & S LEGEND

- SOX --- SOX --- ○ PROPOSED SILT SOXX
- PROPOSED INLET PROTECTION

CORE STATES INC.
12700 HALCREST ROAD
DALLAS, TX 75220
214.377.5660
www.core-states-inc.com

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CLIENT
CHASE

811
Know what's below. Call before you dig.

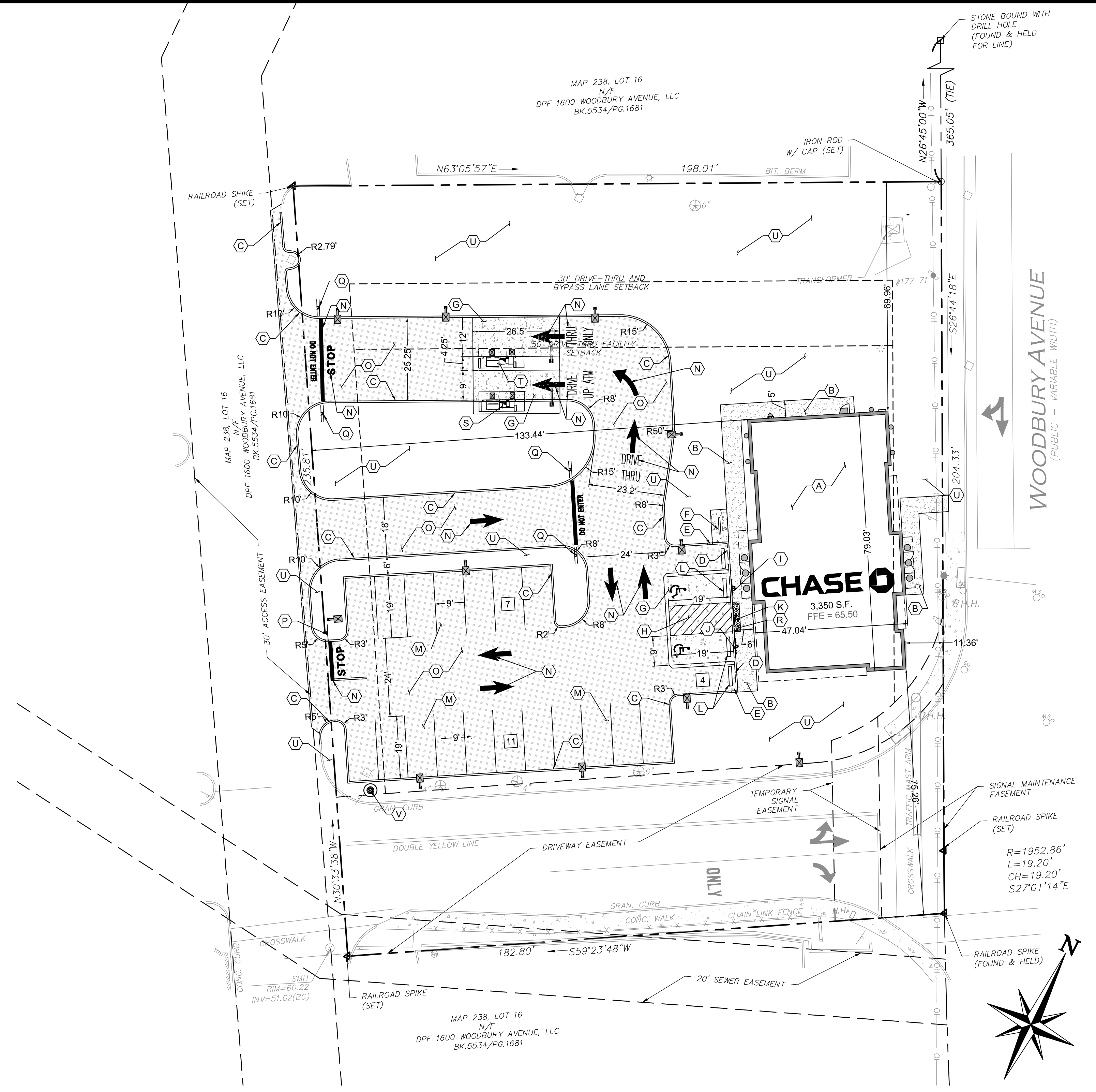
REV	DATE	COMMENT	BY
1	4/6/2020	RESUBMISSION TO TOWNSHIP	KGF

DOCUMENT
SITE PLAN APPROVAL FOR CHASE BANK

SITE LOCATION
1574 WOODBURY AVENUE, PORTSMOUTH, NH 03801

ENGINEER SEAL
THOMAS C. PICKERING, P.E.
No. 10218
04/06/2020
LICENSED PROFESSIONAL ENGINEER
CORE STATES, INC. STATE CERTIFICATE OF AUTHORIZATION #01208

SHEET TITLE
DEMOLITION PLAN
JOB #: JPM 27086
DATE: 04/03/2020
SCALE: AS NOTED
DRAWN BY: DJR
CHECKED BY: AR
SHEET NO. **C-1**



SITE PLAN
SCALE 1" = 20'

GENERAL NOTES:

- THIS DRAWING REFERENCES: 1574 WOODBURY AVENUE TOPOGRAPHIC PLAN OF LAND PREPARED BY ALLEN & MAJOR ASSOCIATES, INC. 100 COMMERCE WAY, SUITE 5 WOBURN, MA 01801 CONTACT: ANDREW RUGGLES TEL: (781) 362-5313 DATED: 08/28/2019
- PROPERTY OWNER: RICHARD P. FUSEGNI 201 KEARSARGE WAY PORTSMOUTH, NH 03801 CONTACT: SCOTT MITCHELL (603) 475-3777
- APPLICANT: J.P. MORGAN CHASE BANK 1450 BRICKELL AVENUE 3RD FLOOR MIAMI, FL 33131 CONTACT: CHRIS FOIT TEL: (786) 473-1769
- 1) SITE ADDRESS: 1574 WOODBURY AVENUE PORTSMOUTH, NH 03801 COUNTY OF ROCKINGHAM
- 2) ZONING DATA: ZONED: G-1 GATEWAY CORRIDOR DISTRICT
- EXISTING USE: RESTAURANT - RUBY TUESDAYS (PERMITTED)
PROPOSED USE: BANK (PERMITTED BY RIGHT)
DRIVE THROUGH (CONDITIONAL USE PERMIT REQUIRED)
- | | REQUIRED | EXISTING | PROPOSED |
|-----------------------------|----------------|--------------|---------------|
| MIN. LOT AREA, SF: | N/A | 43,673 S.F. | NO CHANGE |
| MIN. LOT FRONTAGE, FT: | 50 FT. | 204.32 FT. | NO CHANGE |
| FRONT YARD SETBACK, FT: | 0 FT. - 20 FT. | 89 FT. | 11.36 FT. |
| MIN. SIDE YARD SETBACK, FT: | 10 FT. | 10 FT. | 69.96 FT. |
| MIN. REAR YARD SETBACK, FT: | 15 FT. | 16.4 FT. | 133.44 FT. |
| MAX. HEIGHT, FT: | 40 FT. | 40 FT. | 21.5 FT. |
| MAX. HEIGHT, STORIES: | 3 | 1 | 1 |
| MIN. STREET FACADE HEIGHT: | 18 FT. | ± 20 FT. | 21.5 FT. |
| MIN. OPEN SPACE COVERAGE: | 10% | (7,770 S.F.) | (17,901 S.F.) |
| MAX. BUILDING COVERAGE: | 70% | 10.53% | 7.6% |
| MAX. BUILDING FOOTPRINT: | 10,000 S.F. | 4,600 S.F. | 3,350 S.F. |
- 3) PARKING REQUIREMENTS: \$10.1112.30 OFF-STREET PARKING REQUIREMENTS PER THE CITY OF PORTSMOUTH ZONING ORDINANCE:
FOR PROFESSIONAL, BUSINESS AND FINANCIAL SERVICES:
1 SPACE PER 350 SQUARE FEET OF GROSS FLOOR GROSS AREA
GROSS FLOOR GROSS AREA = 3,350 S.F. (MAIN BUILDING)
CALCULATION: 1 SPACE X (3,350 S.F. / 350 S.F.)
REQUIRED = 10 SPACES
- EXISTING PARKING SPACES: 62 SPACES (INCLUDING 3 ACCESSIBLE SPACES)
PROPOSED PARKING SPACES: 22 SPACES (INCLUDING 2 ACCESSIBLE SPACES)
- PARKING DIMENSIONS
EXISTING: VARIES
REQUIRED: 8'5" X 19'
PROPOSED: 9' X 19'
- 4) ALL EXISTING FEATURES ARE TO REMAIN UNLESS OTHERWISE NOTED.
5) ALL PAVEMENT MARKINGS SHALL BE LONG LIFE EPOXY.
6) PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS BY ALL OF THE PERMITTING AUTHORITIES.
7) ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING AUTHORITY.
8) ALL DIMENSIONS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
9) SOLID WASTE TO BE DISPOSED OF BY CONTRACTOR IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
10) ALL EXCAVATED UNSUITABLE MATERIAL MUST BE TRANSPORTED TO AN APPROVED DISPOSAL LOCATION. CONTRACTOR IS RESPONSIBLE FOR ALL SHORING REQUIRED DURING EXCAVATION AND SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT OSHA STANDARDS, AS WELL AS ADDITIONAL PROVISIONS TO ASSURE STABILITY OF CONTIGUOUS STRUCTURES, AS FIELD CONDITIONS DICTATE.

○ SITE KEY NOTES:

- A. PROPOSED 3,350 S.F. JPMORGAN CHASE BANK BUILDING. REFER TO ARCHITECTURAL PLANS FOR DETAILS.
B. PROPOSED CONCRETE SIDEWALK. REFER TO CONSTRUCTION DETAILS SHEET.
C. PROPOSED CONCRETE CURB. REFER TO CONSTRUCTION DETAILS SHEET.
D. PROPOSED DEPRESSED CONCRETE CURB. REFER TO CONSTRUCTION DETAILS SHEET.
E. PROPOSED TRANSITION CURB SECTION. REFER TO CONSTRUCTION DETAILS SHEET.
F. PROPOSED BIKE RACK ON CONCRETE PAD. REFER TO CONSTRUCTION DETAILS SHEET.
G. PROPOSED CONCRETE PAD. REFER TO CONSTRUCTION DETAILS SHEET.
H. PROPOSED 9' X 19' ACCESSIBLE PARKING SPACE AND AISLE WITH SYMBOLS OF ACCESSIBILITY. REFER TO CONSTRUCTION DETAILS SHEET.
I. PROPOSED VAN ACCESSIBLE PARKING SIGN. REFER TO CONSTRUCTION DETAILS SHEET.
J. PROPOSED ACCESSIBLE PARKING SIGN. REFER TO CONSTRUCTION DETAILS SHEET.
K. PROPOSED NO PARKING ANYTIME SIGN. REFER TO CONSTRUCTION DETAILS SHEET.
L. PROPOSED WHEEL STOP. REFER TO CONSTRUCTION DETAILS SHEET.
M. PROPOSED 9' X 19' STANDARD PARKING SPACE. REFER TO CONSTRUCTION DETAILS SHEET/
N. PROPOSED SITE MARKINGS. REFER TO CONSTRUCTION DETAILS SHEET/
O. PROPOSED ASPHALT PAVEMENT. REFER TO CONSTRUCTION DETAILS SHEET.
P. PROPOSED STOP SIGN. REFER TO CONSTRUCTION DETAILS SHEET.
Q. PROPOSED STOP & DO NOT ENTER SIGN. REFER TO CONSTRUCTION DETAILS SHEET.
R. PROPOSED DETECTABLE WARNING SURFACE. REFER TO CONSTRUCTION DETAILS SHEET.
S. PROPOSED DRIVE-UP SIGNATURE ATM CANOPY. REFER TO CONSTRUCTION DETAILS SHEET.
T. PROPOSED "FUTURE" DRIVE-UP SIGNATURE ATM CANOPY. REFER TO CONSTRUCTION DETAILS SHEET.
U. PROPOSED LANDSCAPE AREA. REFER TO LANDSCAPE PLAN FOR DETAILS.
V. PROPOSED CDS WATER QUALITY UNIT BY CONTECH. SEE CONSTRUCTION DETAILS.

SITE LEGEND

- EXISTING PROPERTY BOUNDARY LINE
- - - EXISTING ADJOINING PROPERTY LINE
- EXISTING ROAD CENTERLINE
- PROPOSED ROAD CENTERLINE
- PROPOSED DITCH CENTERLINE
- PROPOSED LIMITS OF BMP / DETENTION
- PROPOSED SAWCUT LINE
- EXISTING CURB
- PROPOSED CURB
- PROPOSED MOUNTABLE CURB
- PROPOSED BUILDING
- PROPOSED ASPHALT
- PROPOSED CONCRETE
- EXISTING SANITARY STRUCTURES
- EXISTING WATER STRUCTURES
- EXISTING OVERHEAD WIRES
- ⊗ PROPOSED PARKING COUNT

ALERT TO CONTRACTOR:
PRIOR TO THE CONSTRUCTION OF OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, WATER MAIN OR ANY OF THE DRY UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM ENGINEER AND THE OWNER OF ANY CONFLICT OR REQUIRED DEVIATIONS FROM THE PLAN. NOTIFICATION SHALL BE MADE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. ENGINEER AND OWNER SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.

CORE STATES INC.
12700 HALCREST ROAD
DALLAS, TX 75250
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www.core-eng.com

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CLIENT
CHASE

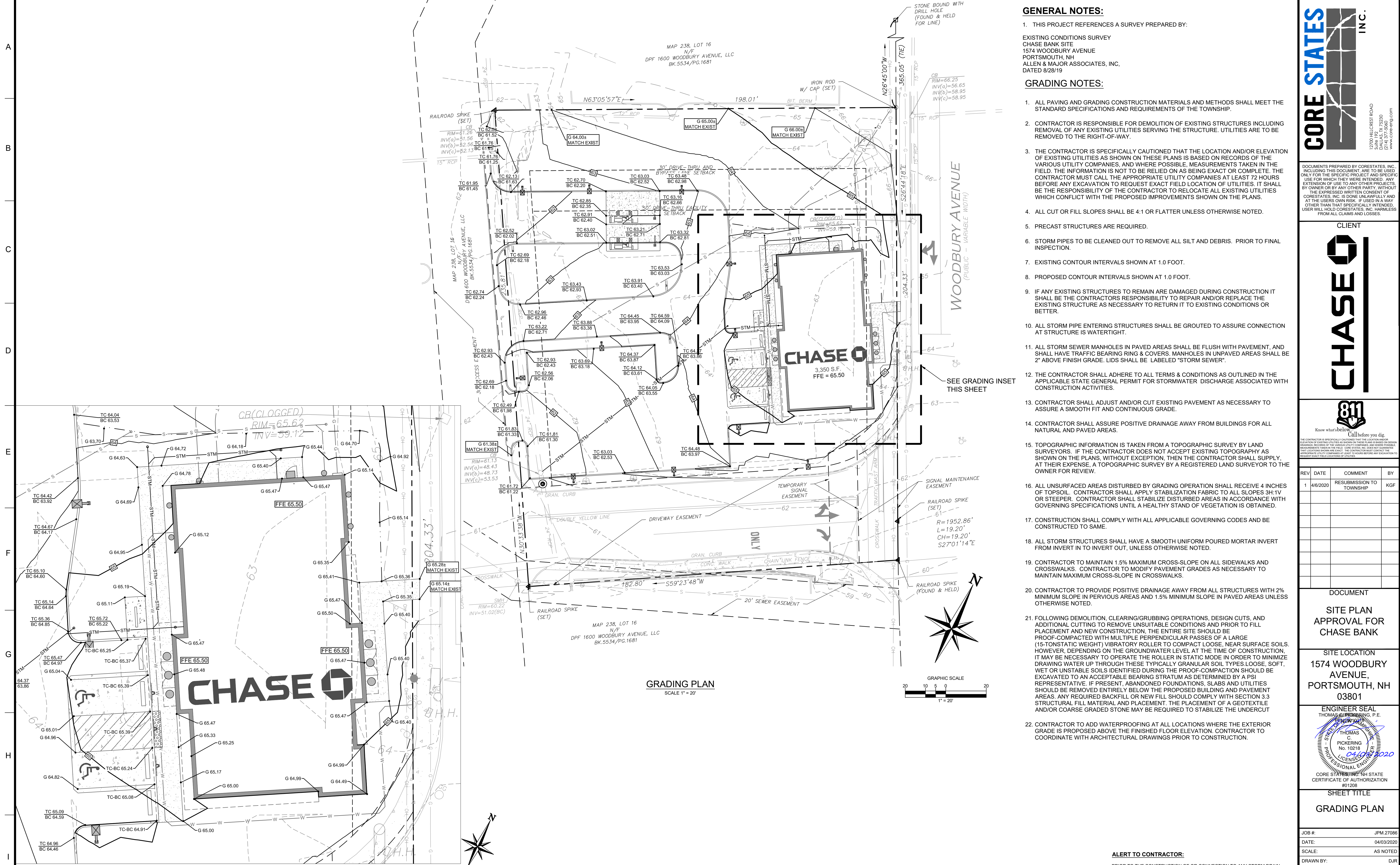
811
Know what's below. Call before you dig.

REV	DATE	COMMENT	BY
1	4/8/2020	RESUBMISSION TO TOWNSHIP	KGF

DOCUMENT
SITE PLAN APPROVAL FOR CHASE BANK
SITE LOCATION
1574 WOODBURY AVENUE,
PORTSMOUTH, NH
03801

ENGINEER SEAL
THOMAS C. PICKERING, P.E.
No. 10218
04/08/2020
LICENSED PROFESSIONAL ENGINEER
CORE STATES, INC. STATE CERTIFICATE OF AUTHORIZATION #01208

SHEET TITLE
SITE PLAN
JOB #: JPM 27086
DATE: 04/03/2020
SCALE: AS NOTED
DRAWN BY: DJR
CHECKED BY: AR
SHEET NO.
C-2



GENERAL NOTES:

1. THIS PROJECT REFERENCES A SURVEY PREPARED BY:
EXISTING CONDITIONS SURVEY
CHASE BANK SITE
1574 WOODBURY AVENUE
PORTSMOUTH, NH
ALLEN & MAJOR ASSOCIATES, INC.
DATED 8/28/19

GRADING NOTES:

- ALL PAVING AND GRADING CONSTRUCTION MATERIALS AND METHODS SHALL MEET THE STANDARD SPECIFICATIONS AND REQUIREMENTS OF THE TOWNSHIP.
- CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES SERVING THE STRUCTURE. UTILITIES ARE TO BE REMOVED TO THE RIGHT-OF-WAY.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- ALL CUT OR FILL SLOPES SHALL BE 4:1 OR FLATTER UNLESS OTHERWISE NOTED.
- PRECAST STRUCTURES ARE REQUIRED.
- STORM PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS. PRIOR TO FINAL INSPECTION.
- EXISTING CONTOUR INTERVALS SHOWN AT 1.0 FOOT.
- PROPOSED CONTOUR INTERVALS SHOWN AT 1.0 FOOT.
- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
- ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
- ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 2" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER".
- THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE APPLICABLE STATE GENERAL PERMIT FOR STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
- CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
- TOPOGRAPHIC INFORMATION IS TAKEN FROM A TOPOGRAPHIC SURVEY BY LAND SURVEYORS. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OWNER FOR REVIEW.
- ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER. CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH GOVERNING SPECIFICATIONS UNTIL A HEALTHY STAND OF VEGETATION IS OBTAINED.
- CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
- ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR INVERT FROM INVERT IN TO INVERT OUT, UNLESS OTHERWISE NOTED.
- CONTRACTOR TO MAINTAIN 1.5% MAXIMUM CROSS-SLOPE ON ALL SIDEWALKS AND CROSSWALKS. CONTRACTOR TO MODIFY PAVEMENT GRADES AS NECESSARY TO MAINTAIN MAXIMUM CROSS-SLOPE IN CROSSWALKS.
- CONTRACTOR TO PROVIDE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES WITH 2% MINIMUM SLOPE IN PAVED AREAS AND 1.5% MINIMUM SLOPE IN PAVED AREAS UNLESS OTHERWISE NOTED.
- FOLLOWING DEMOLITION, CLEARING/GRUBBING OPERATIONS, DESIGN CUTS, AND ADDITIONAL CUTTING TO REMOVE UNSUITABLE CONDITIONS AND PRIOR TO FILL PLACEMENT AND NEW CONSTRUCTION, THE ENTIRE SITE SHOULD BE PROOF-COMPACTED WITH MULTIPLE PERPENDICULAR PASSES OF A LARGE (15-TON-STAKE WEIGHT) VIBRATORY ROLLER TO COMPACT LOOSE, NEAR SURFACE SOILS. HOWEVER, DEPENDING ON THE GROUNDWATER LEVEL AT THE TIME OF CONSTRUCTION, IT MAY BE NECESSARY TO OPERATE THE ROLLER IN STATIC MODE IN ORDER TO MINIMIZE DRAWING WATER UP THROUGH THESE TYPICALLY GRANULAR SOIL TYPES. LOOSE, SOFT, WET OR UNSTABLE SOILS IDENTIFIED DURING THE PROOF-COMPACTION SHOULD BE EXCAVATED TO AN ACCEPTABLE BEARING STRATUM AS DETERMINED BY A PSI REPRESENTATIVE. IF PRESENT, ABANDONED FOUNDATIONS, SLABS AND UTILITIES SHOULD BE REMOVED ENTIRELY BELOW THE PROPOSED BUILDING AND PAVEMENT AREAS. ANY REQUIRED BACKFILL OR NEW FILL SHOULD COMPLY WITH SECTION 3.3 STRUCTURAL FILL MATERIAL AND PLACEMENT. THE PLACEMENT OF A GEOTEXTILE AND/OR COARSE GRADED STONE MAY BE REQUIRED TO STABILIZE THE UNDERCUT.
- CONTRACTOR TO ADD WATERPROOFING AT ALL LOCATIONS WHERE THE EXTERIOR GRADE IS PROPOSED ABOVE THE FINISHED FLOOR ELEVATION. CONTRACTOR TO COORDINATE WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.

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CLIENT
CHASE

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Know what's below. Call before you dig.
The contractor is specifically cautioned that the location and/or elevation of existing utilities shown on these plans is based on records of the various utility companies, and where possible, measurements taken in the field. Core States, Inc. does not guarantee the location and/or elevation of utilities shown on these plans. The contractor shall call the appropriate utility companies at least 72 hours before any excavation to request exact field location of utilities. It shall be the responsibility of the contractor to relocate all existing utilities which conflict with the proposed improvements shown on the plans.

REV	DATE	COMMENT	BY
1	4/8/2020	RESUBMISSION TO TOWNSHIP	KGF

DOCUMENT
SITE PLAN APPROVAL FOR CHASE BANK

SITE LOCATION
1574 WOODBURY AVENUE, PORTSMOUTH, NH 03801

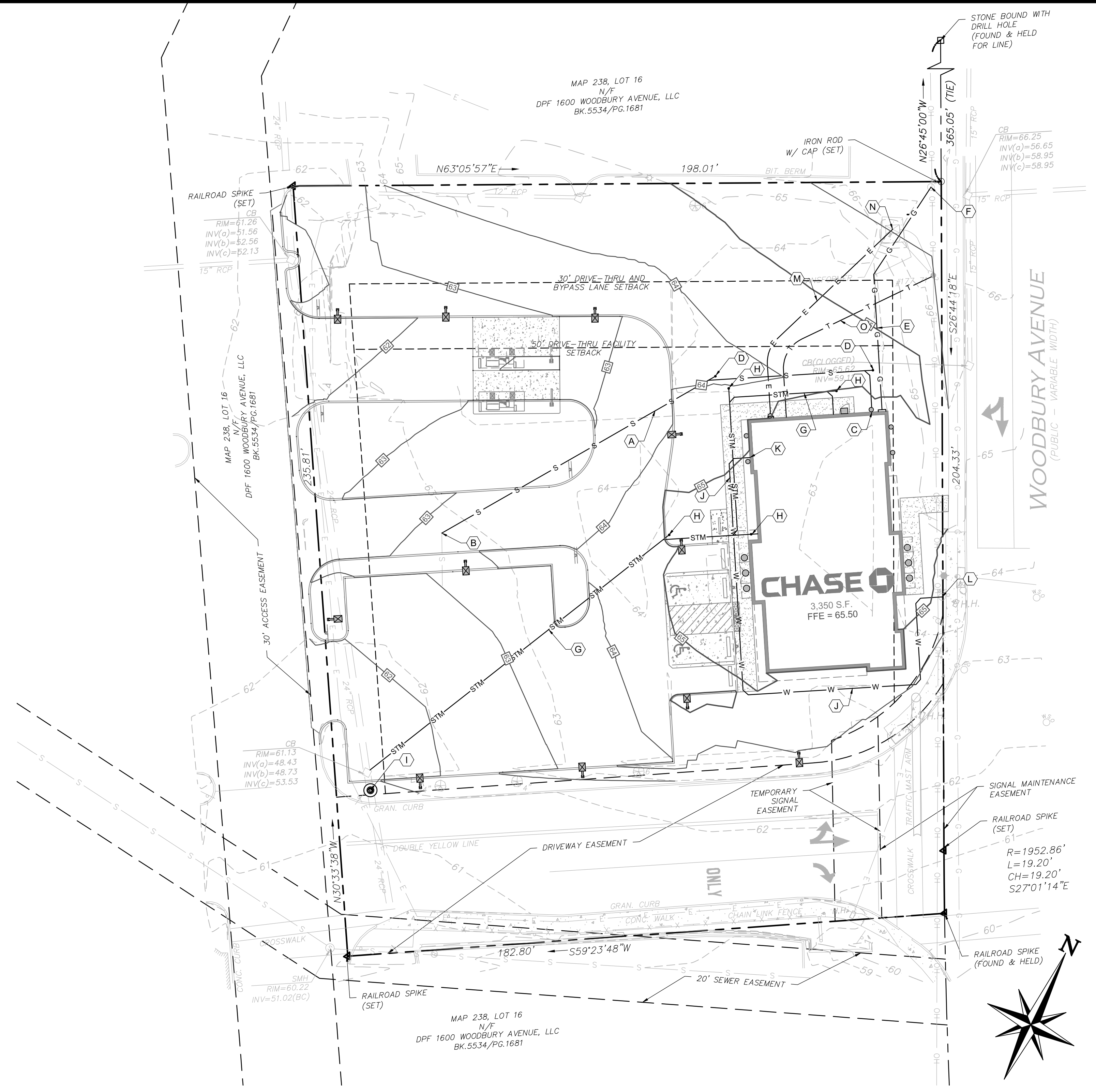
ENGINEER SEAL
THOMAS C. PICKERING, P.E.
No. 10218
04/03/2020
LICENSED PROFESSIONAL ENGINEER
CORE STATES, INC. STATE CERTIFICATE OF AUTHORIZATION #01208

SHEET TITLE
GRADING PLAN

JOB #: JPM 27086
DATE: 04/03/2020
SCALE: AS NOTED
DRAWN BY: DJR
CHECKED BY: AR

SHEET NO.
C-3

ALERT TO CONTRACTOR:
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UTILITY PLAN
SCALE 1" = 20'

GENERAL NOTES:
1. THIS PROJECT REFERENCES A SURVEY PREPARED BY:

EXISTING CONDITIONS SURVEY
ALLEN & MAJOR ASSOCIATES, INC.
DATED 8/28/19

UTILITY KEY NOTES:

- A. PROPOSED 4" SDR 26 SANITARY SEWER LINE AT A MINIMUM OF 2.0% SLOPE.
- B. PROPOSED SANITARY CONNECTION TO EXISTING LATERAL. CONTRACTOR TO PROVIDE LOCATION OF ENTIRE LATERAL AND INVERTS PRIOR TO ANY PROPOSED WORK TO ENGINEER OF RECORD. IF EXISTING LATERAL EXTENDS UNDER THE PROPOSED BUILDING LOCATION AND FOOTING, CONTRACTOR TO WORK WITH ENGINEER OF RECORD TO RE-ROUTE EXISTING LATERAL.
- C. PROPOSED SANITARY LATERAL CONNECTION TO PROPOSED BUILDING. PROPOSED INVERT TO BE MINIMUM INVERT OF 63.50'.
- D. PROPOSED SANITARY SEWER CLEANOUT.
- E. PROPOSED GAS SERVICE LINE. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY PRIOR TO INSTALLATION.
- F. PROPOSED GAS CONNECTION TO EXISTING GAS VALVE. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY TO VERIFY IF EXISTING CONNECTION IS ADEQUATE.
- G. PROPOSED 6" PVC UNDERGROUND ROOF DRAIN AT A MINIMUM 1.0% SLOPE. MINIMUM INVERT LEAVING THE BUILDING SHALL BE 1.5' BELOW FINISHED FLOOR.
- H. PROPOSED ROOF DRAIN CLEAN OUT.
- I. PROPOSED CDS WATER QUALITY UNIT BY CONTECH. SEE CONSTRUCTION DETAILS.
- J. PROPOSED 1-1/2" WATER SERVICE LINE.
- K. PROPOSED WATER SERVICE CONNECTION TO BUILDING.
- L. PROPOSED WATER SERVICE CONNECTION TO EXISTING WATER SERVICE VALVE. CONTRACTOR TO DETERMINE SIZE OF EXISTING SERVICE AND COORDINATE WITH UTILITY COMPANY PRIOR TO COMMENCING OF WORK.
- M. PROPOSED ELECTRICAL CONDUITS.
- N. PROPOSED ELECTRICAL POINT OF CONNECTION AT EXISTING TRANSFORMER. CONTRACTOR TO VERIFY IF SERVICE PROVIDED AT TRANSFORMER IS ADEQUATE FOR THE PROPOSED BUILDING. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY PRIOR TO COMMENCING ANY WORK.
- O. PROPOSED DATA CONDUITS.

UTILITY LEGEND

	EXISTING PROPERTY BOUNDARY LINE
	EXISTING ADJOINING PROPERTY LINE
	EXISTING ROAD CENTERLINE
	PROPOSED ROAD CENTERLINE
	PROPOSED DITCH CENTERLINE
	PROPOSED LIMITS OF BMP / DETENTION
	EXISTING CURB
	PROPOSED CURB
	PROPOSED MOUNTABLE
	PROPOSED BUILDING
	PROPOSED CONCRETE
	PROPOSED WATER STRUCTURES
	PROPOSED STORM STRUCTURES
	PROPOSED SANITARY STRUCTURES
	EXISTING SANITARY STRUCTURES
	EXISTING WATER STRUCTURES
	EXISTING GAS MAIN
	EXISTING WATER MAIN
	EXISTING UNDERGROUND ELECTRIC
	EXISTING TELEPHONE
	EXISTING OVERHEAD WIRES
	EXISTING SANITARY
	EXISTING STORM
	PROPOSED STORM PIPE
	PROPOSED WATER
	PROPOSED SANITARY
	PROPOSED COMMUNICATIONS LINE
	PROPOSED ELECTRIC
	PROPOSED GAS

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REV	DATE	COMMENT	BY
1	4/8/2020	RESUBMISSION TO TOWNSHIP	KGF

DOCUMENT
SITE PLAN APPROVAL FOR CHASE BANK

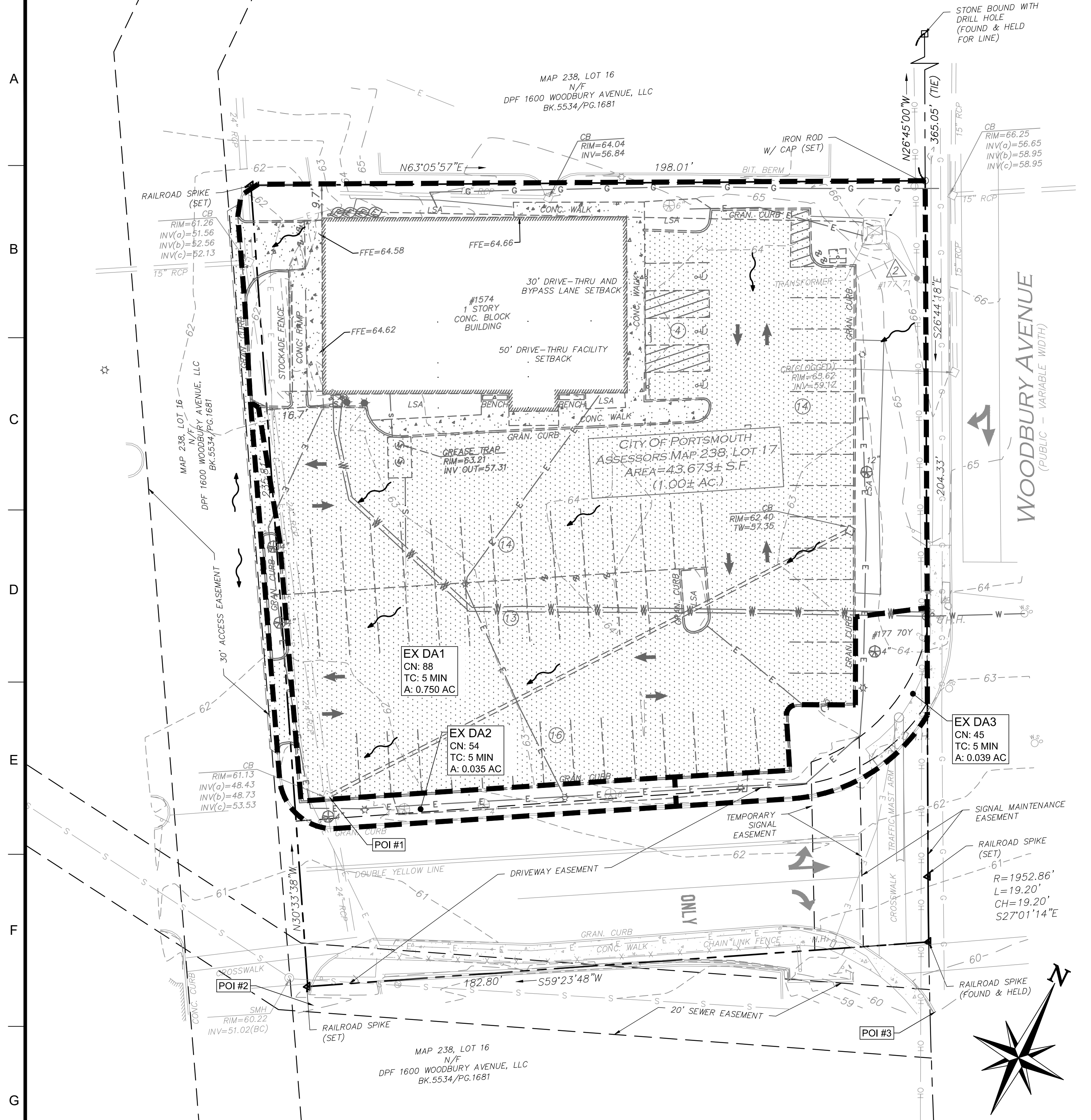
SITE LOCATION
1574 WOODBURY AVENUE, PORTSMOUTH, NH 03801

ENGINEER SEAL
THOMAS C. PICKERING, P.E.
No. 10218
LICENSED PROFESSIONAL ENGINEER
04/03/2020
CORE STATES, INC. STATE CERTIFICATE OF AUTHORIZATION #01208

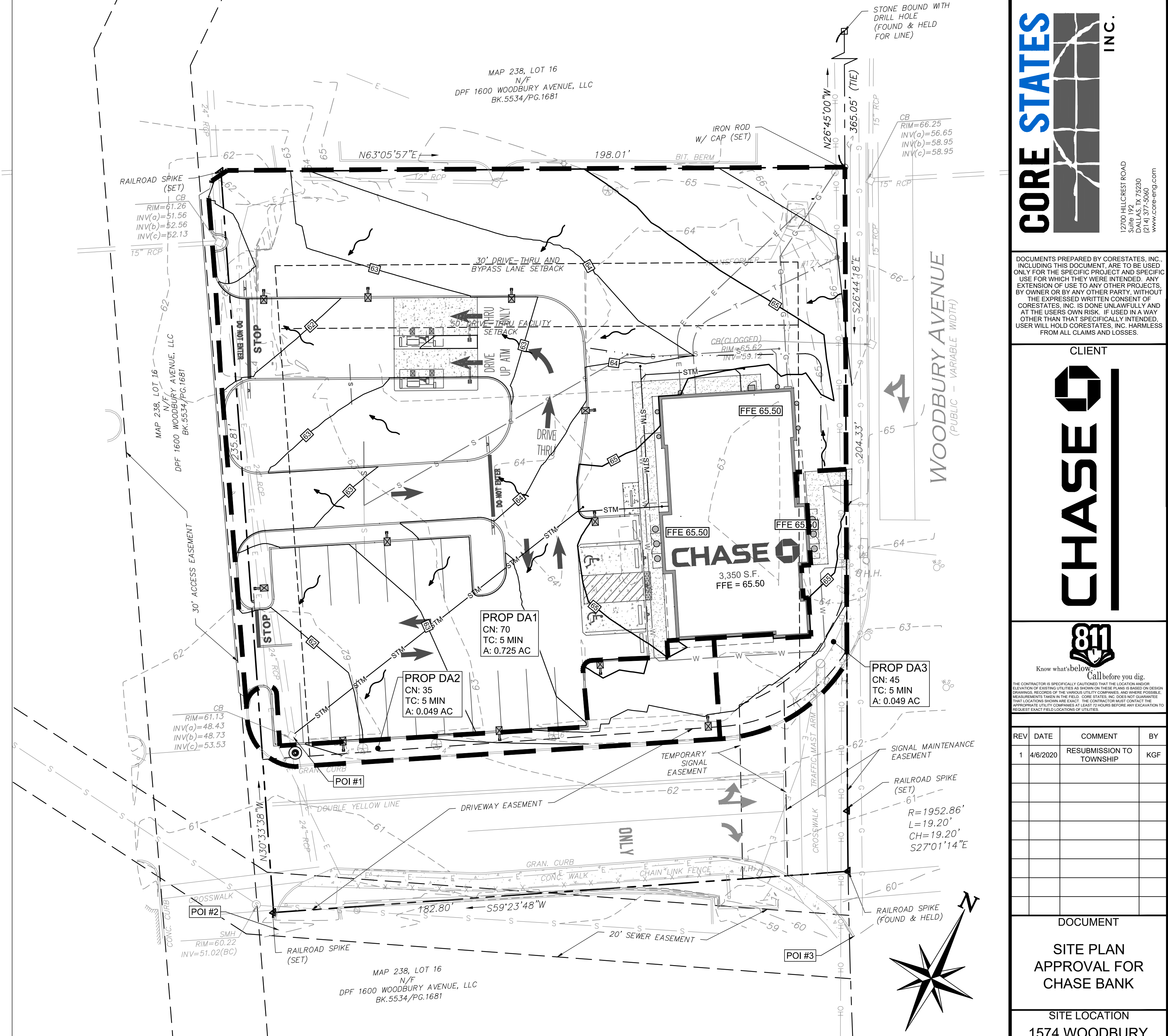
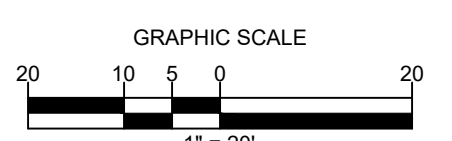
SHEET TITLE
UTILITY PLAN

JOB #: JPM 27086
DATE: 04/03/2020
SCALE: AS NOTED
DRAWN BY: DJR
CHECKED BY: AR

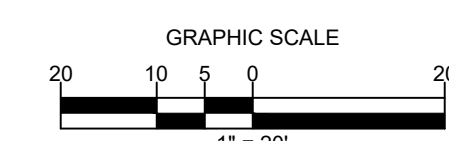
SHEET NO.
C-4



PRE-DEVELOPMENT DRAINAGE AREA MAP
SCALE 1" = 20'



POST-DEVELOPMENT DRAINAGE AREA MAP
SCALE 1" = 20'



EX-DA 1

IMPERVIOUS (CN 98) = 27,367 SQUARE FEET
 PERVIOUS (CN 69) = 5,301 SQUARE FEET
 TOTAL (CN 93) = 32,668 SQUARE FEET (0.750 AC)

EX-DA 2 (BYPASS)

IMPERVIOUS (CN 98) = 469 SQUARE FEET
 PERVIOUS (CN 69) = 1,065 SQUARE FEET
 TOTAL (CN 78) = 1,534 SQUARE FEET (0.035 AC)

EX-DA 3 (BYPASS PROW)

IMPERVIOUS (CN 98) = 271 SQUARE FEET
 PERVIOUS (CN 69) = 1,404 SQUARE FEET
 TOTAL (CN 74) = 1,675 SQUARE FEET (0.039 AC)

PROP-DA 1

IMPERVIOUS (CN 98) = 17,638 SQUARE FEET
 PERVIOUS (CN 69) = 14,407 SQUARE FEET
 TOTAL (CN 85) = 32,045 SQUARE FEET (0.736 AC)

PROP-DA 2 (BYPASS)

IMPERVIOUS (CN 98) = 0 SQUARE FEET
 PERVIOUS (CN 69) = 2,142 SQUARE FEET
 TOTAL (CN 69) = 2,142 SQUARE FEET (0.049 AC)

PROP-DA 3 (BYPASS PROW)

IMPERVIOUS (CN 98) = 338 SQUARE FEET
 PERVIOUS (CN 69) = 1,352 SQUARE FEET
 TOTAL (CN 74) = 1,690 SQUARE FEET (0.039 AC)

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CLIENT

CHASE

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REV	DATE	COMMENT	BY
1	4/8/2020	RESUBMISSION TO TOWNSHIP	KGF

DOCUMENT

SITE PLAN APPROVAL FOR CHASE BANK

SITE LOCATION
1574 WOODBURY AVENUE,
PORTSMOUTH, NH
03801

ENGINEER SEAL
THOMAS C. PICKERING, P.E.
STATE OF NEW HAMPSHIRE
No. 10218
LICENSED PROFESSIONAL ENGINEER
04/03/2020
CORE STATES, INC. STATE
CERTIFICATE OF AUTHORIZATION
#01208

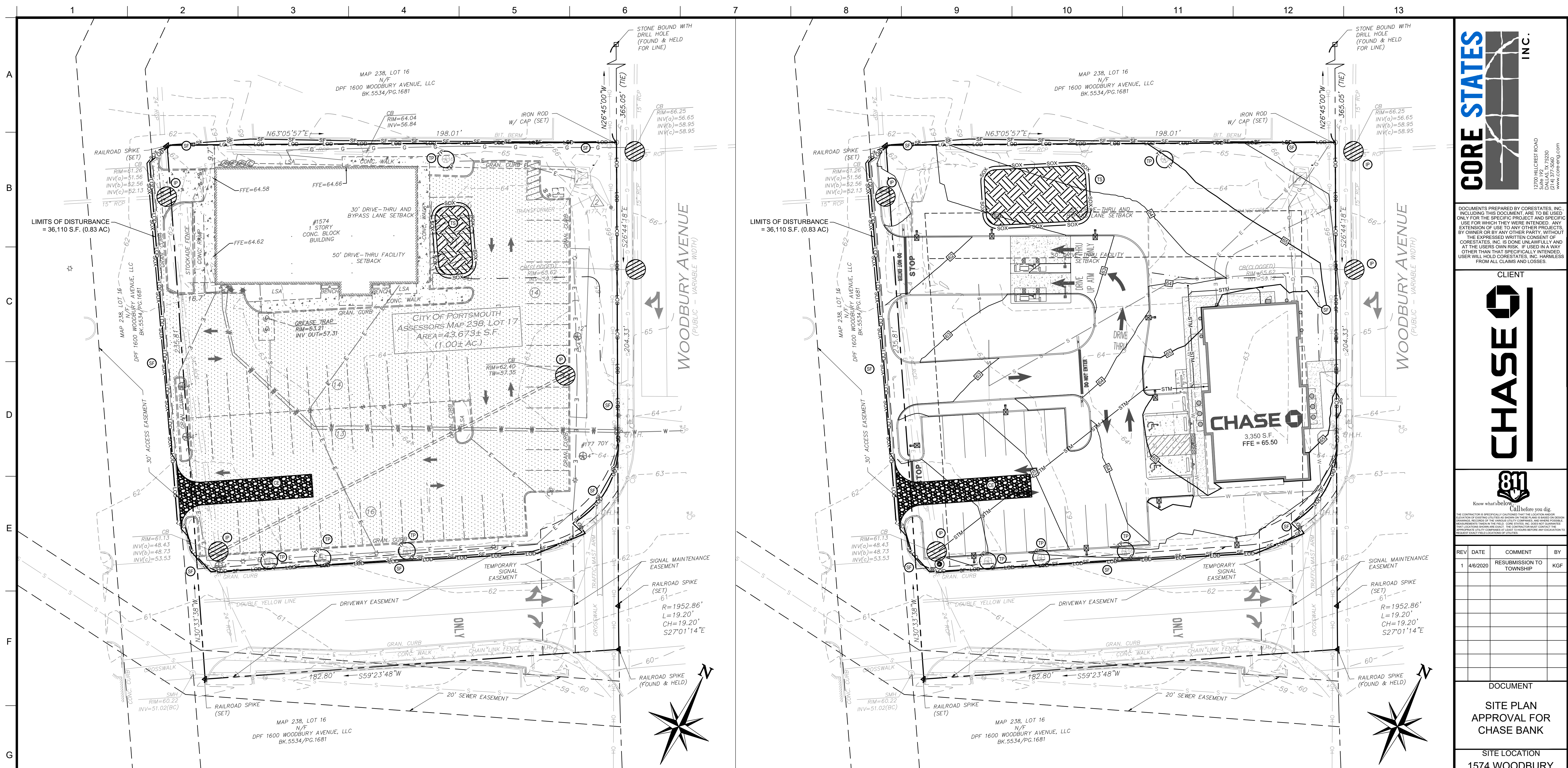
SHEET TITLE

DRAINAGE AREA MAPS

JOB #:	JPM 27086
DATE:	04/03/2020
SCALE:	AS NOTED
DRAWN BY:	DJR
CHECKED BY:	AR

SHEET NO.

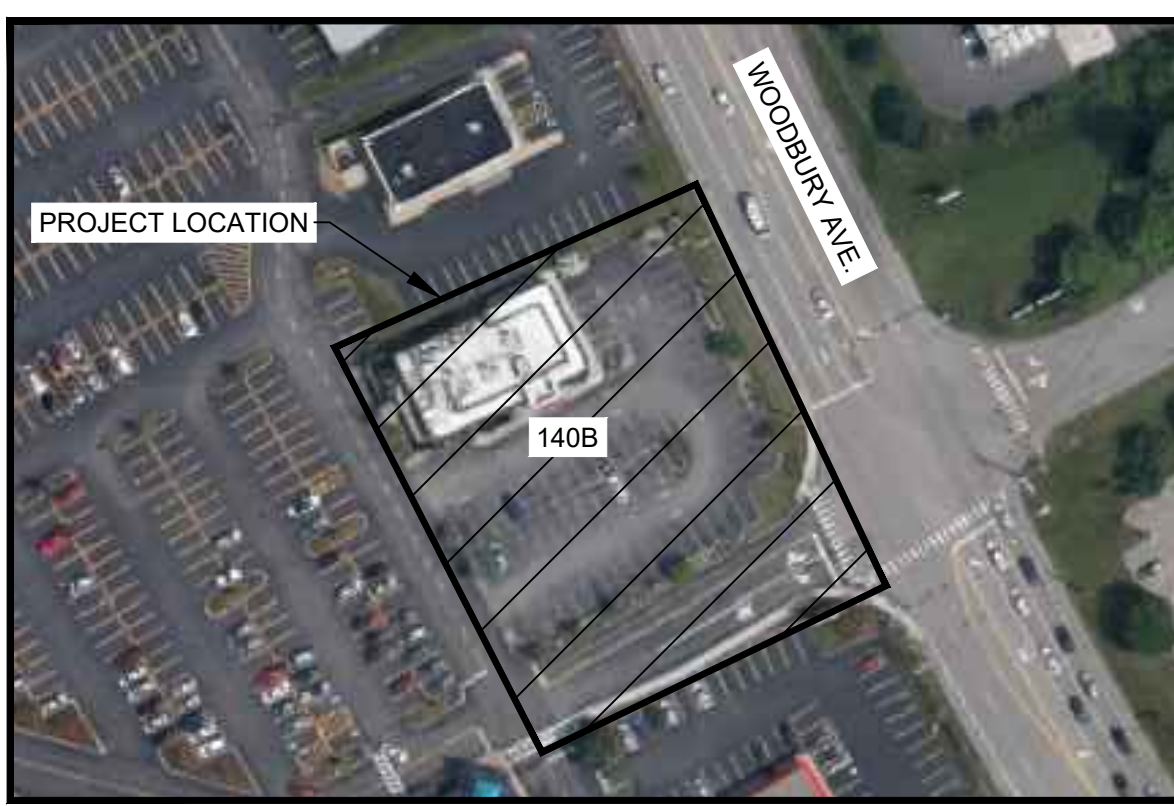
C-5



EROSION & SEDIMENT CONTROL PLAN PHASE I
SCALE 1" = 20'

EROSION AND SEDIMENT CONTROL PLAN PHASE II
SCALE 1" = 20'

SOIL SUITABILITY AND CHARACTERISTICS			
DESIGNATION	SOIL	HYDROLOGIC SOIL GROUP	DESCRIPTION
140B	CHATFIELD-HOLLIS-CANT ON COMPLEX, 0 TO 8 PERCENT SLOPES, ROCKY	B	CHATFIELD, VERY STONY, AND SIMILAR SOILS. 35 PERCENT HOLLIS, VERY STONY, AND SIMILAR SOILS. 25 PERCENT CANTON, VERY STONY, AND SIMILAR SOILS. 25 PERCENT MINOR COMPONENTS: 15 PERCENT



SOILS MAP
1" = 100'

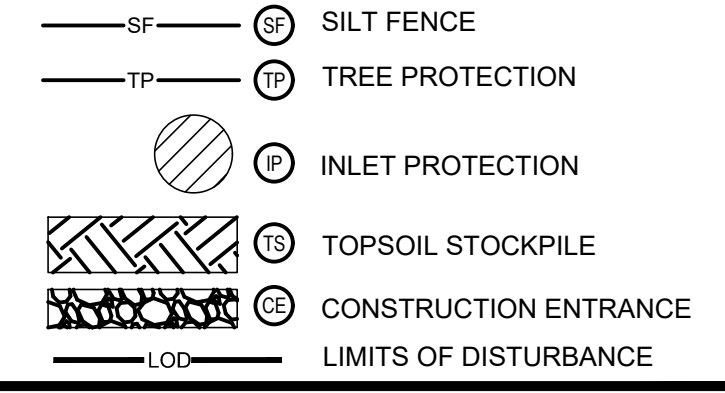
SEQUENCE OF CONSTRUCTION:

- PHASE I**
- INSTALL TEMPORARY INLET PROTECTION(S) AND SILT FENCE.
 - DEMOLISH EXISTING SITE FEATURES TO INSTALL ROCK CONSTRUCTION ENTRANCE.
 - PREPARE TEMPORARY PARKING AND STORAGE AREA AT LOCATION IN PARKING LOT DESIGNATED BY OWNER.
 - BEGIN DEMOLITION ACTIVITIES HARDSCAPE REMOVAL AND BUILDING DEMOLITION.
 - BEGIN CONSTRUCTION OF NEW CHASE BANK BUILDING.
- PHASE II**
- TEMPORARILY SEED OR MULCH, THROUGHOUT CONSTRUCTION, DENUDE AREAS THAT WILL BE INACTIVE FOR 7 DAYS OR MORE.
 - INSTALL SUBSURFACE UTILITIES PROPOSED TO SERVE NEW CHASE BANK BUILDING AND PROPOSED STORM DRAINAGE.
 - CONTINUE WITH BALANCE OF EARTHWORK ACTIVITIES AND COMPLETE ROUGH GRADING TO ACHIEVE GRADES PROPOSED ON PLANS.
 - INSTALL CURB AND PAVEMENT SUBBASE.
 - PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
 - PREPARE SITE FOR PAVING.
 - PAVE SITE AND INSTALL SIGNAGE.
 - COMPLETE GRADING AND INSTALLATION OF PERMANENT STABILIZATION OVER ALL AREAS.
 - CALL ENGINEER OF RECORD AFTER THE SITE APPEARS TO BE FULLY STABILIZED FOR AN INSPECTION.
 - REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER APPROVAL OF THE ENGINEER OF RECORD AND STABILIZE ANY AREAS DISTURBED BY THE REMOVAL OF THE BMP.
 - CONTINUE DAILY INSPECTION REPORTS UNTIL THE FINAL DAILY INSPECTION IS SIGNED OFF BY THE OWNER THAT THE SITE IS FULLY STABILIZED AND THE PERMIT MAY BE TERMINATED.

MAINTENANCE NOTES:

- INLET PROTECTION SHALL BE REPAIRED TO THEIR ORIGINAL CONDITION IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE INLET PROTECTION WHEN LOGGING BECOMES APPARENT.
- SILT FENCE SHALL BE REPAIRED OR REPLACED TO THEIR ORIGINAL CONDITION IF DAMAGED.
- ALL CONSTRUCTION VEHICLES SHALL ENTER AND EXIT THROUGH THE CONSTRUCTION ENTRANCE TO BE INSTALLED FOR THE DURATION OF CONSTRUCTION ACTIVITIES.

E&S LEGEND



NOTE: THE GENERAL CONTRACTOR MAY COMPLETE CONSTRUCTION-RELATED ACTIVITIES CONCURRENTLY ONLY IF ALL PRECEDING BMPs HAVE BEEN COMPLETELY INSTALLED.

ALERT TO CONTRACTOR:
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214.377.5660
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CLIENT
CHASE

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1	4/8/2020	RESUBMISSION TO TOWNSHIP	KGF

DOCUMENT
SITE PLAN APPROVAL FOR CHASE BANK

SITE LOCATION
1574 WOODBURY AVENUE, PORTSMOUTH, NH 03801

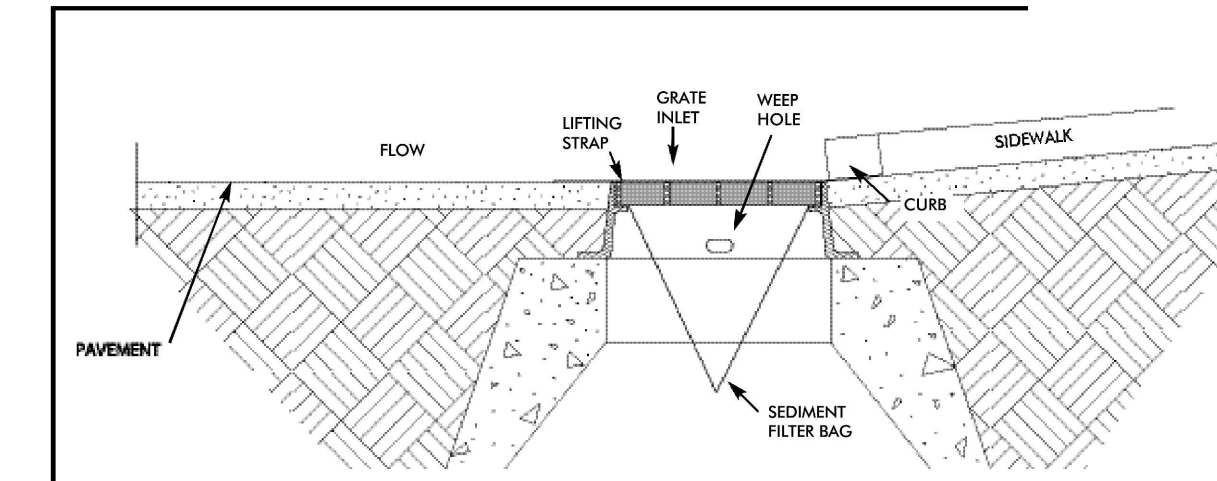
ENGINEER SEAL
THOMAS C. PICKERING, P.E.
Professional Engineer
No. 10218
04/08/2020
CORE STATES, INC. STATE CERTIFICATE OF AUTHORIZATION #01208

SHEET TITLE
SOIL EROSION & SEDIMENT CONTROL PLAN

JOB #: JPM 27086
DATE: 04/03/2020
SCALE: AS NOTED
DRAWN BY: DJR
CHECKED BY: AR

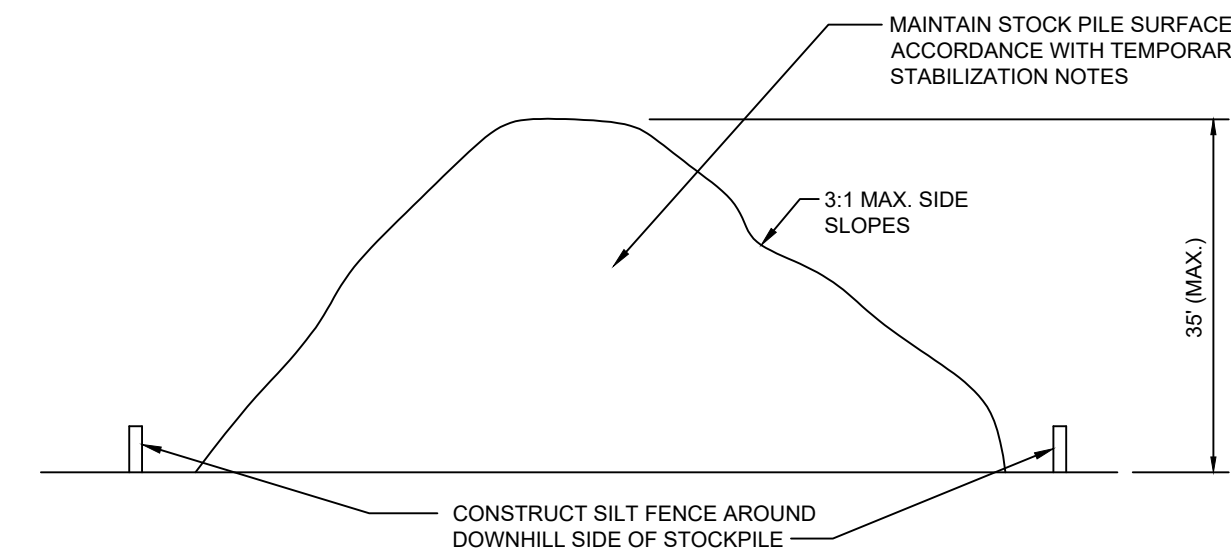
SHEET NO.
C-6

SEDIMENT FILTER BAG GRATE INLET PROTECTION DETAILS



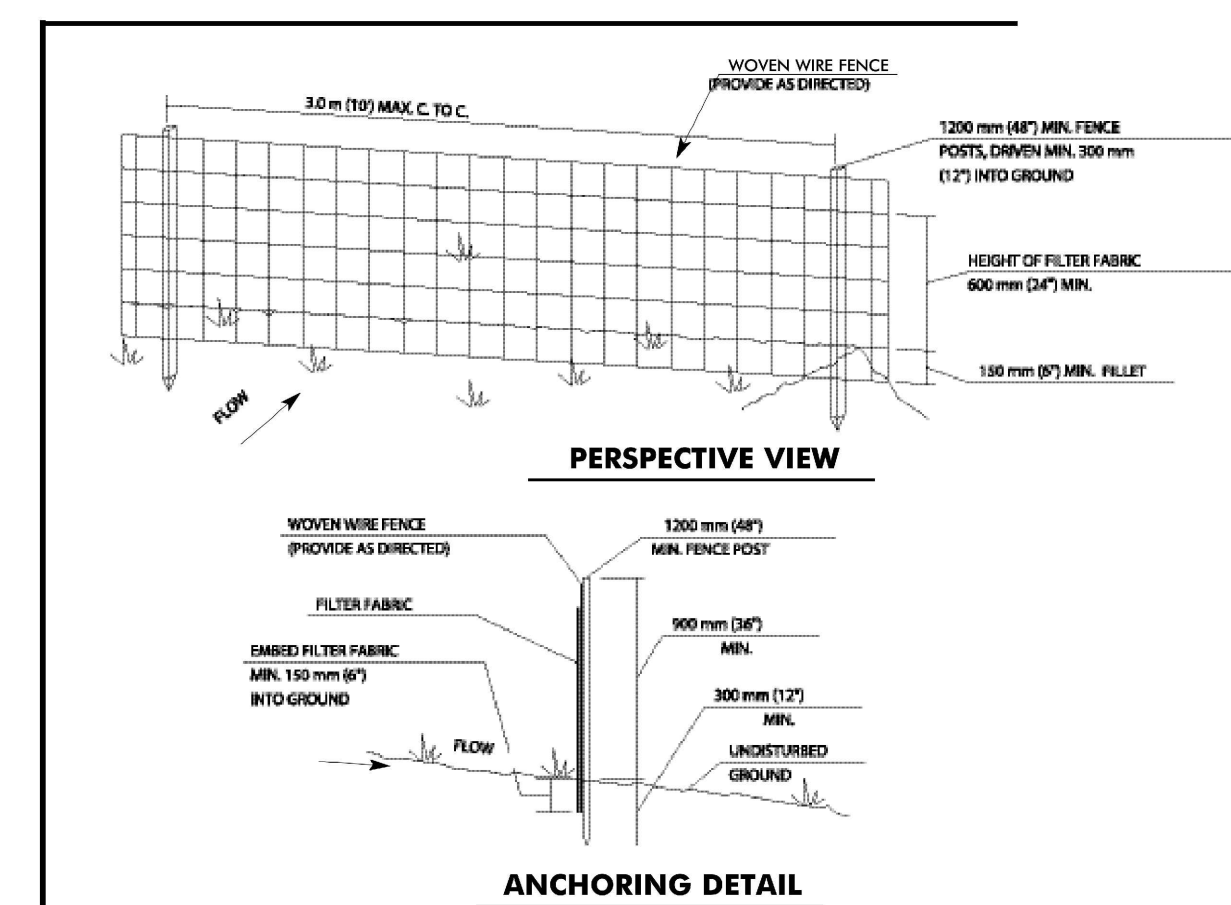
SECTION

- CONSTRUCTION REQUIREMENTS**
1. Remove drainage inlet grate and place sediment filter bag around the frame, replace grate and sediment filter bag in position or follow manufacturer's recommendation. Lifting straps shall be exposed and ready for maintenance procedures.
 2. Inspect sediment filter bag weekly and after every rainfall event.
 3. Replace, clean or remove sediment filter bag as directed.



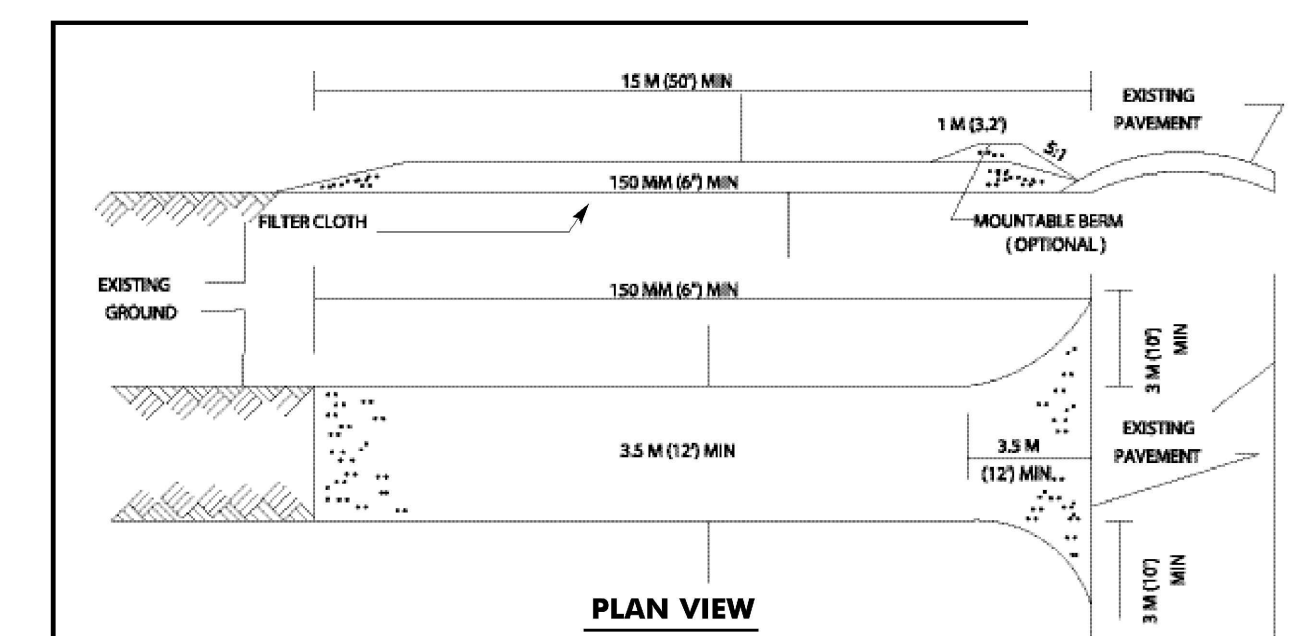
TEMPORARY STOCKPILE DETAIL
N.T.S.

SILT FENCE PERIMETER BARRIER DETAILS

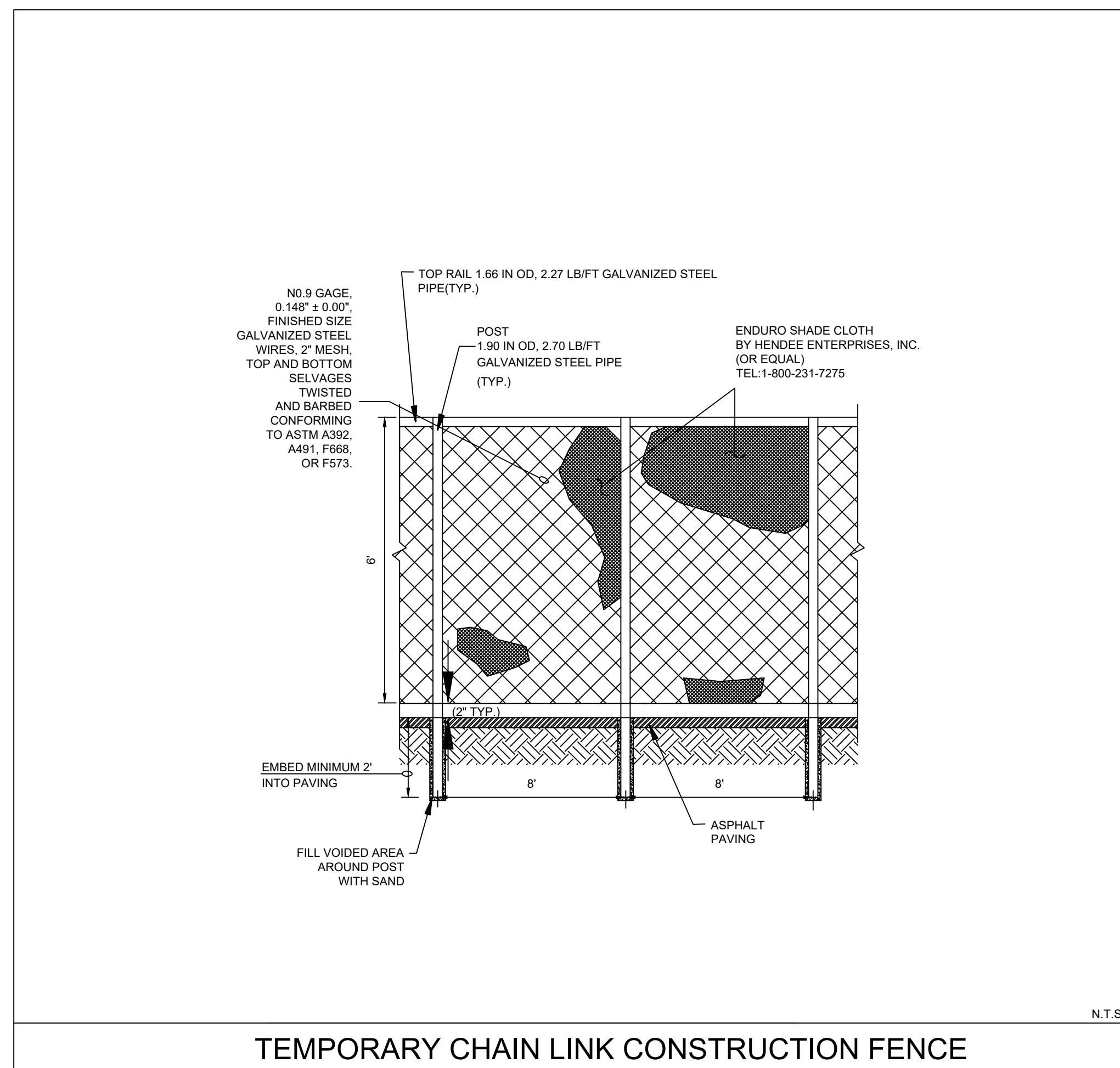


- CONSTRUCTION REQUIREMENTS**
1. Securely fasten filter fabric and woven wire fence (if provided) to fence posts with wire ties, staples, or other approved methods.
 2. Securely fasten filter fabric to the woven wire fence with ties spaced every 600mm (24 in.) at the top, midsection and bottom.
 3. When two sections of filter fabric adjoin each other, overlap the sections by 150mm (6 in.), fold, and staple at a post. Securely splice woven wire fence at a post.
 4. Place silt fence 1500 mm (5 ft.) beyond the toe of slope or on the contour. At the end of silt fence runs, flare uphill.
 5. Provide woven wire fence and/or closer fence post spacing in areas where high runoff volumes are anticipated, or in low spots where sediment will be collected.
 6. Remove silt fence, as directed, when no longer needed. Before the silt fence is removed, stabilize with vegetation any sediment which is permitted to remain in place.

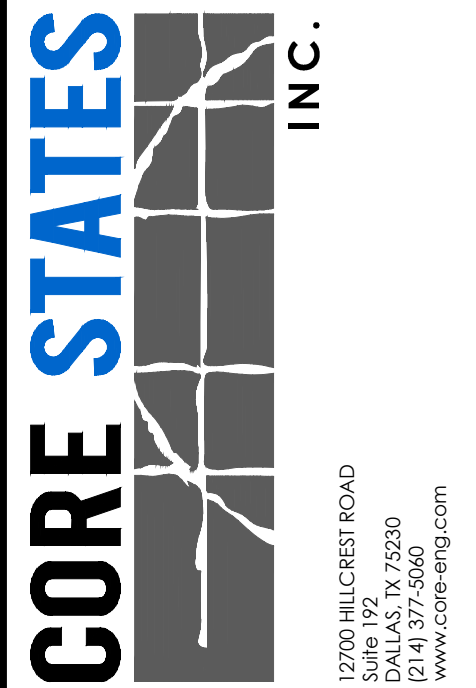
STABILIZED CONSTRUCTION ENTRANCE DETAILS



- CONSTRUCTION REQUIREMENTS**
1. Stone Size - Use 37 mm (1 1/2 in.) stone.
 2. Length - Not less than 15m (50 ft.) (Except on a single residence lot where a 9m (30 ft.) minimum length would apply).
 3. Thickness - Not less than 150mm (6 in.).
 4. Width - 3.5 meter (twelve (12) ft.) minimum, but not less than the full width at points where ingress or egress occurs. 7 meters (twenty-four (24) ft.) if single entrance to site.
 5. Filter Cloth - Will be placed over the entire area prior to placing of stone.
 6. Surface Water - All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with 5:1 slopes will be permitted.
 7. Maintenance - The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto public rights-of-way. All sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately.
 8. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
 9. Periodic inspection and needed maintenance shall be provided after each rain.



TEMPORARY CHAIN LINK CONSTRUCTION FENCE
N.T.S.



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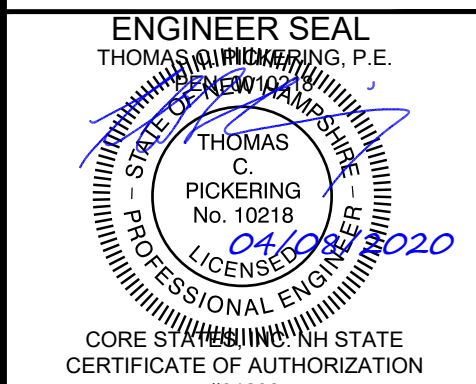


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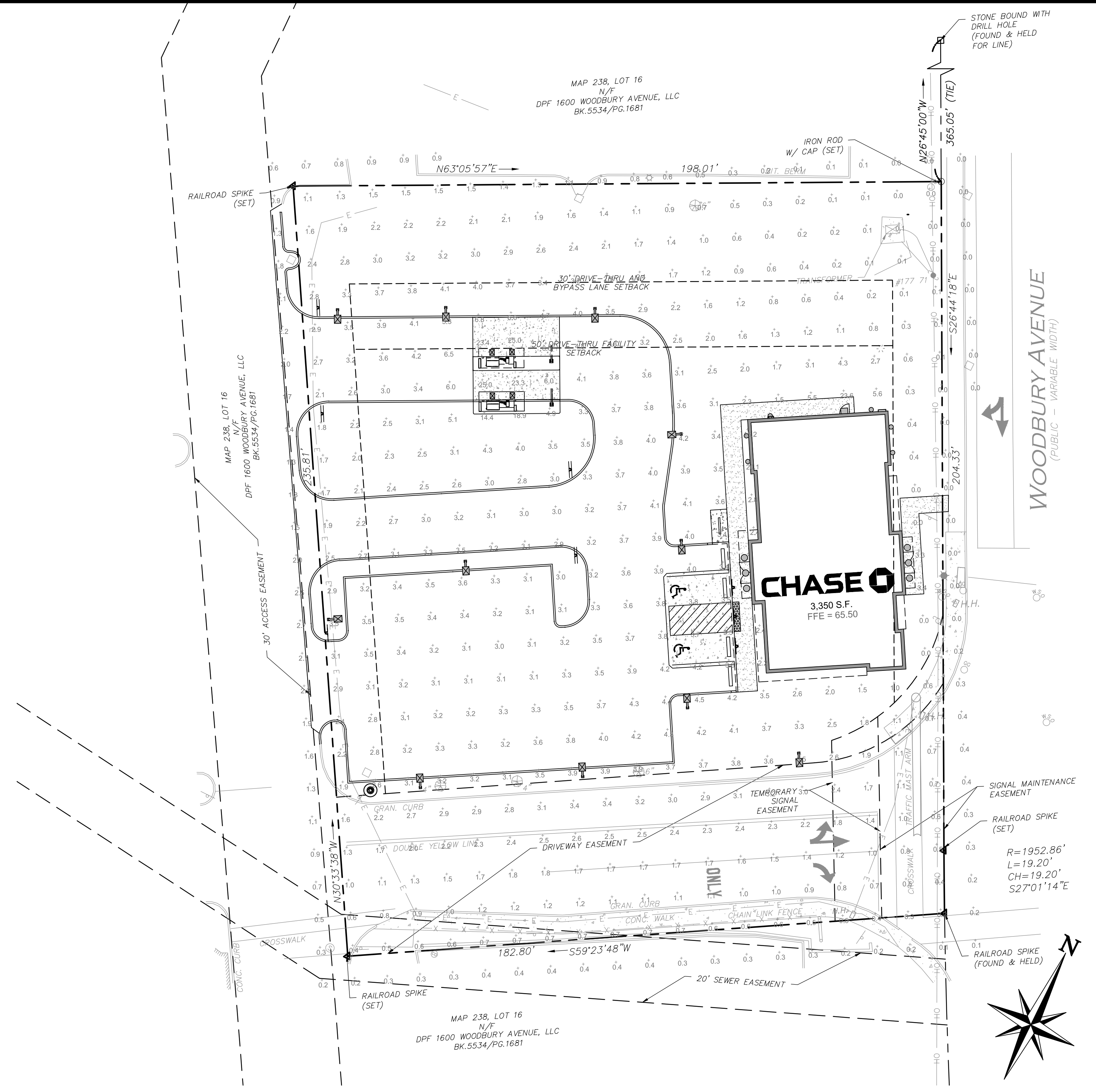
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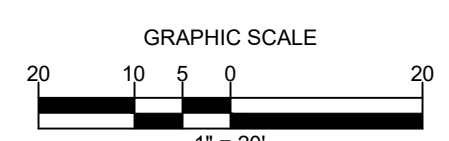
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SOIL EROSION AND SEDIMENT CONTROL DETAILS

JOB #:	JPM 27086
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SCALE:	AS NOTED
DRAWN BY:	DJR
CHECKED BY:	AR

SHEET NO.
C-7



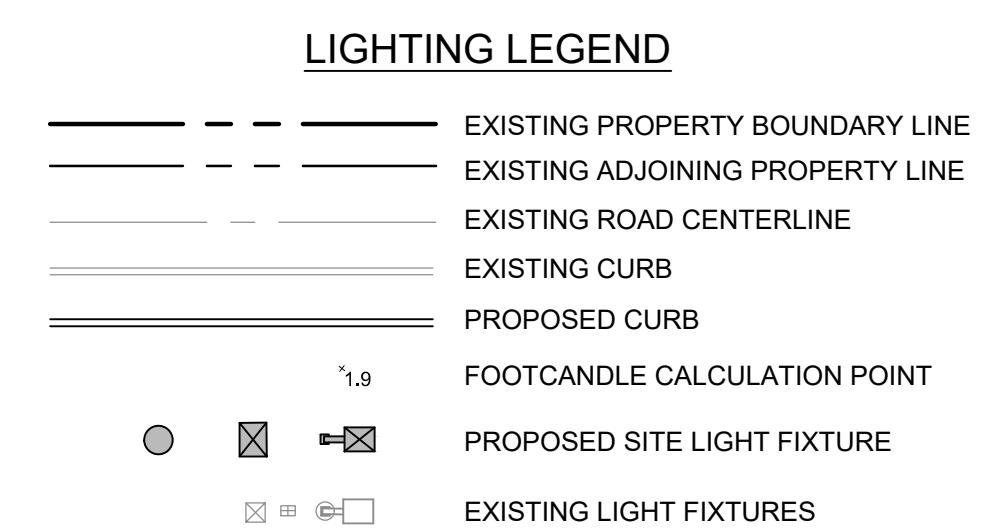
LIGHTING PLAN MEASURED AT GROUND LEVEL
SCALE 1" = 20'



LUMINAIRE SCHEDULE						
SYMBOL	MANUFACTURER	MODEL	CATALOG	QTY	DISTRIBUTION	MOUNT HT.
	MCGRAW EDISON	GLEON GALLEON LED	GLEON-AF-02-LED-E1-5WQ-7030	11	TYPE 5	20'-0"
	E-CONOLIGHT	LED SQUARE CANOPY	E-CSA04A-W50W	4	TYPE 5	9'-10"
	AMERLUX	HORNET HP	HDL-HP-R-NC-A17-T-16-120-0-10V/HDL-HP-RL	6	TYPE 5	9'-10"
	EATON	LAN TERRA 9004	9004-W2-RW-LED-3090-W-BK-L1-UNV	6	TYPE 5	9'-10"
	LUMARK	XTOR CROSS TOUR LED	XTOR6B-W-BZ-MS/DIM-L20-CBP	1	TYPE 4	12'-0"

CALCULATION SUMMARY			
AREA	AVERAGE	MAX	MIN
PROPERTY ANALYSIS @ 3 FT	2.85 fc	25.0 fc	0.0 fc

- LIGHTING NOTES**
1. LIGHT ANALYSIS CONDUCTED AT 3- FEET ABOVE FINISHED GRADE.
 2. MOUNTING HEIGHT OF THE SITE LIGHTING IS MEASURED FROM FINISH ASPHALT GRADE.
 3. ALL PROPOSED FIXTURES ON TIMER TO OPERATE DURING NIGHT TIME HOURS, 30 MINUTES AFTER SUNSET AND 30 MINUTES BEFORE SUNRISE. CONTRACTOR TO INSTALL FIXTURE ON COPPER LIGHTING POLE RSS-6-A-XX-S-Y-N-XX. MOUNT HEIGHTS ARE BASED ON HEIGHT ABOVE FINISHED ASPHALT GRADE.



ALERT TO CONTRACTOR:
PRIOR TO THE CONSTRUCTION OF OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, WATER MAIN OR ANY OF THE DRY UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM ENGINEER AND THE OWNER OF ANY CONFLICT OR REQUIRED DEVIATIONS FROM THE PLAN. NOTIFICATION SHALL BE MADE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. ENGINEER AND OWNER SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.

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APPROVAL FOR
CHASE BANK

SITE LOCATION

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PORTSMOUTH, NH
03801

SHEET TITLE

LIGHTING PLAN

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DATE:	04/03/2020
SCALE:	AS NOTED
DRAWN BY:	DJR
CHECKED BY:	AR

SHEET NO.

C-8

A B C D E F G H I

McGraw-Edison LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AcCoLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated and UL04L Listed for wet locations.

Steel Poles • ASTM Grade steel base plate with ASTM A366 base cover • Hand hole assembly 2" x 8" on 5" and 6" poles, 2" x 4" on 4" poles • 10'-30' mounting heights • Drill or laser (specify)

Lumark The patented Lumark Crosstour™ MAXX LED wall pack series of luminaires provides low-profile architectural style with super bright, energy-efficient LEDs. The rugged die-cast aluminum construction, back box with secure lock hinges, stainless steel hardware along with a sealed and gasketed optical compartment make Crosstour™ impervious to contaminants.

Hornet® HP Round Lensed Downlight/ Wall Wash • Hornet Lensed Downlights are the perfect choice for all general lighting needs. Available in Round or Square apertures, these fixtures meet the needs of commercial and hospitality markets.

Lanterna 9004 Series LED Square Canopy Light Replaces 100W PSMH • Lanterna 9004-W1 (Up or Down) and 9004-W2 (Up and Down) are 4.25" O.D. line voltage cylinder fixtures with dimmable LED. The luminaire comes in various mounting, surface mount or integral driver in the housing, remote driver mount with round and square wall plates and square wall integral driver, all of which can be mounted over standard 4 inch boxes.

E-CSA04 Series LED Square Canopy Light Replaces 100W PSMH • Extremely durable design and an efficacy up to 115 lumens per watt. Performance • Uses 65% less energy than comparable PSMH fixtures • Delivers 25% more light than comparable PSMH fixtures

DOWNLIGHT / WALL WASH N.T.S. • Includes technical drawings, performance charts, and certification data for Hornet HP fixtures.

CORE STATES INC. 12700 HALCREST ROAD DALLAS, TX 75220 (214) 375-5660 www.core-states.com

REVISION TABLE • REV 1 4/6/2020 COMMENT REVISION TO TOWNSHIP BY KGF

Gametime 7700
PLAYCORE COMPANY
1-800-235-2440

LOOP BIKE RACK

ISSUED/REVISED: 7/17/12

INSTALLATION 7702
DETAIL 7703
PARTS LIST
REFERENCE

SPECIFICATIONS

BIKE RACK: Bike Rack shall be fabricated of 2 3/8" D.O. galvanized pipe.
FINISH: Bike Rack shall have a bright powdercoat finish.
GENERAL: Bike Rack shall extend approximately 24" below ground level.
Rack will be approximately 35 1/2" above ground level.
SPECIFICATIONS: GAMETIME has a policy of continuous improvement and reserves the right to discontinue or change specifications without notice.

INSTALLATION DRAWINGS

7703 GROUND PLAN

1'-6" DIA x 2'-0" DEEP

1'-6" [45.72 cm]
2'-0" [60.96 cm]

PAGE 3

TRAFFIC SIGN POST DETAIL
NTS

SIGN HEIGHT, WIDTH & SHAPE VARY

7'-0"

BREAKAWAY STEEL U-POST SIGN SUPPORT ASSEMBLY

FINISHED GRADE

3'-6" MAX
4" MAX

PARKING STRIPING DETAIL
NTS

4" TRAFFIC BLUE STRIPING 2'-0" O.C. (TYP.)

9'0" (VAN)

STANDARD 90° ACCESSIBLE SPACE

4" TRAFFIC WHITE STRIPING (TYP.)

19'0"

9'0"

PAVEMENT STRIPING DETAIL
NTS

18'-0" OR (AS REQUIRED)

4" MIN
6" MAX

STRIPING DETAIL

20"

5'-0"

3'-0" MAX
2'-0" MIN

1'-6" 8" 1'-6"

ARROW DETAIL

NOTE: STRIPING TO THERMOPLASTIC REFLECTIVE WHITE PAINT, TYP. BUT USE YELLOW PAINT ON WHEN WHITE PAINT DOES NOT PROVIDE SUFFICIENT CONTRAST.

"DO NOT ENTER" SIGN
NTS

30"

30"

DO NOT ENTER

R5-1

STANDARD RED AND WHITE SIGN

PAINTED STOP BAR & SIGN DETAIL
NTS

24"

LENGTH VARIES

4"

NOTE: ALL SIGNS SHALL MEET THE RETRO-REFLECTIVITY REQUIREMENTS OF MUTCD. ADDITIONALLY THE DATE OF THE MANUFACTURE SHOULD BE PERMANENTLY AFFIXED TO THE BACK OF THE SIGN.

R1-1
30"x30"

STOP

RESTRICTED PARKING SIGN DETAIL
NTS

RESERVED PARKING

VAN ACCESSIBLE

80" MINIMUM

FINISH GRADE (TYP.)

R7-8 NY
12"x18"

R7-8va
6"x12"

• ALL EXPOSED PAINTED SURFACES SHALL BE COATED WITH MATTHEWS #282-208SP VOC GLOSS CLEAR, WITH MINIMUM 2 MILS DRY FILM THICKNESS (DFT) PER MATTHEWS APPLICATIONS SPECIFICATIONS.
• EMBEDDED PORTION OF POST SHALL BE PRIMED AND PAINTED FOR CORROSION PROTECTION

ON-SITE CONCRETE CURB DETAIL
NTS

1.5"

2 #4 BAR CONTINUOUS EXCEPT AT EXPANSION JOINT

CAST-IN-PLACE CONCRETE CURB

1/2" COMPRESSIBLE FILLER WHERE PAVEMENT IS CONCRETE PAVEMENT- REFER TO DETAILS

6" MIN. COMPACTED GRANULAR BASE

NOTES:
1.) CONCRETE CURB SHALL BE POURED WITH CLASS AAA CONCRETE WITH A 4,500 PSI 28-DAY COMPRESSIVE STRENGTH.
2.) CURBING SHALL BE CONSTRUCTED IN TEN-FOOT LENGTHS. A PRE-MOLDED BITUMINOUS IMPREGNATED EXPANSION JOINT HAVING A MINIMUM THICKNESS OF 1/4 INCH SHALL BE PLACED BETWEEN SECTIONS OF CURVED CURB AND AT INTERVALS OF NOT MORE THAN 50 FEET. INTERMEDIATE JOINTS BETWEEN TEN-FOOT SECTIONS SHALL BE SAW CUT. HOWEVER, WHEREVER A DRIVEWAY ENTERS A STREET, THAT AREA OF THE DRIVEWAY SHALL NOT HAVE A CURB JOINT AND CAN BE CONSTRUCTED IN LENGTHS NOT LONGER THAN 20 FEET.

ROOF DRAIN OVERFLOW DETAILS
NTS

2" ABOVE PRIMARY ROOF DRAIN INLET

CLAMP RING- GRAVEL STOP

DRAIN RECEIVER

ROOF DRAIN W/ CAST IRON DOME W/DM

REFER TO ARCHITECTURAL DWGS FOR ROOF CONSTRUCTION

ADJUSTABLE COLLAR

UNDERDECK CLAMP

(SVC) (NO-HUB) CONNECTION (TYPICAL)

1" FIBERGLASS PIPE INSULATION MIN 15'-0" DOWNSTREAM OF DRAIN

EXTERIOR WALL

ANCHOR TIGHT TO WALL AS POSSIBLE

SECONDARY STORM WATER LEADER (SVC) (NO-HUB)

DOWNSPOUT NOZZLE (DNZ) W/ ROCKET SCREEN

1'-0" ABOVE FIN. GRADE UNLESS NOTED OTHERWISE

GRADE

FLOOR SLAB

NOTES:
1. DOWNSPOUT NOZZLES TO BE USED IN SECONDARY/OVERFLOW DRAINAGE SYSTEMS ONLY.
2. COORDINATE DOWNSPOUT LOCATIONS WITH SITE PLANS.

CONCRETE PAD AND SIDEWALK DETAIL
NTS

MEET GRADE AT PERIMETER OF CONCRETE MAT

WIDTH (SEE PLAN)

6" X 6" GRID, W2.9 X W2.9 WELDED WIRE MESH

FINISHED GRADE SHALL BE FLUSH WITH ABUTTING CONCRETE SURFACE

4" THICK SIDEWALKS, 6" THICK VEHICLE PARKING/ DRIVING, AIR ENTRAINED CONCRETE 4,500 PSI AT 28 DAYS

6" THICK CLEAN CRUSHED STONE

EXISTING COMPACTED SUBGRADE

ASPHALT PAVEMENT DETAIL
NTS

2.0" NH DOT TYPE B PAVEMENT SURFACE COURSE TOP

ASPHALTIC CONCRETE

3.0" NH DOT TYPE E PAVEMENT BASE COURSE BOTTOM

ASPHALTIC CONCRETE

6.0" NH DOT CRUSHED GRAVEL PER NHDOT 304.3

EXISTING GROUND COMPACTED TO MINIMUM 95 PERCENT OF MAXIMUM DRY DENSITY, PROOF-ROLLED APPROVED SUBGRADE.

NOTE:
• ALL PAVEMENT MATERIALS AND CONSTRUCTION PROCEDURES SHOULD CONFORM TO PA DOT AND APPROPRIATE CITY, OR COUNTY REQUIREMENTS. PENNSYLVANIA DEPARTMENT OF TRANSPORTATION PUBLICATION 408 / 2016 SPECIFICATIONS.

PAVEMENT RESTORATION DETAIL
NTS

CONCRETE CURB SEE DETAIL

SAWCUT SEAL

EXISTING PAVEMENT

PROPOSED SUB-BASE SEE PAVEMENT SECTION DETAIL

CORE STATES IN C.

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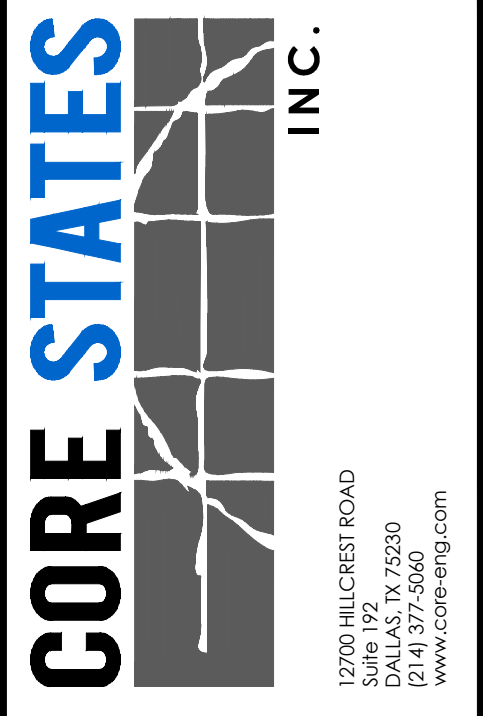
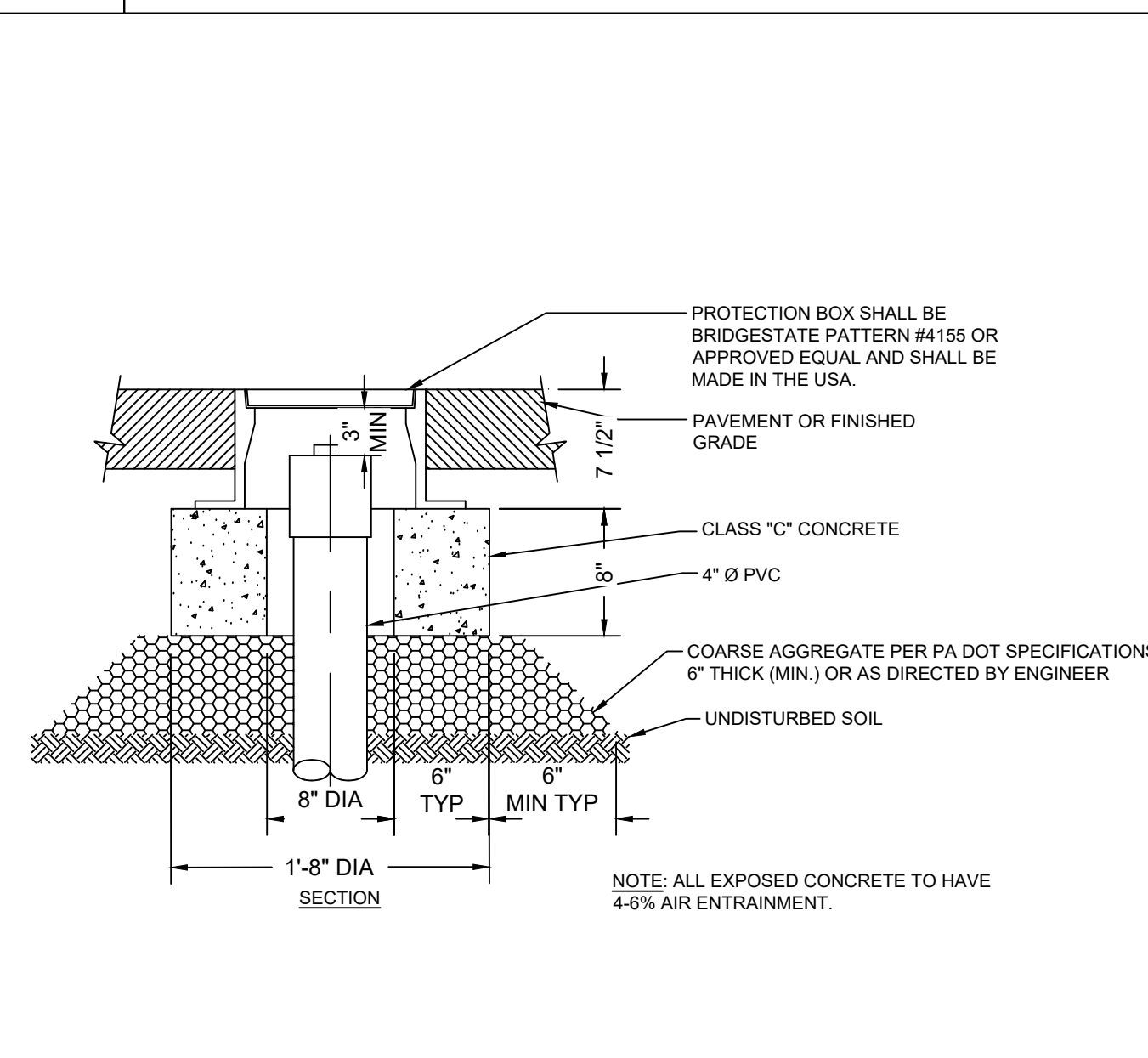
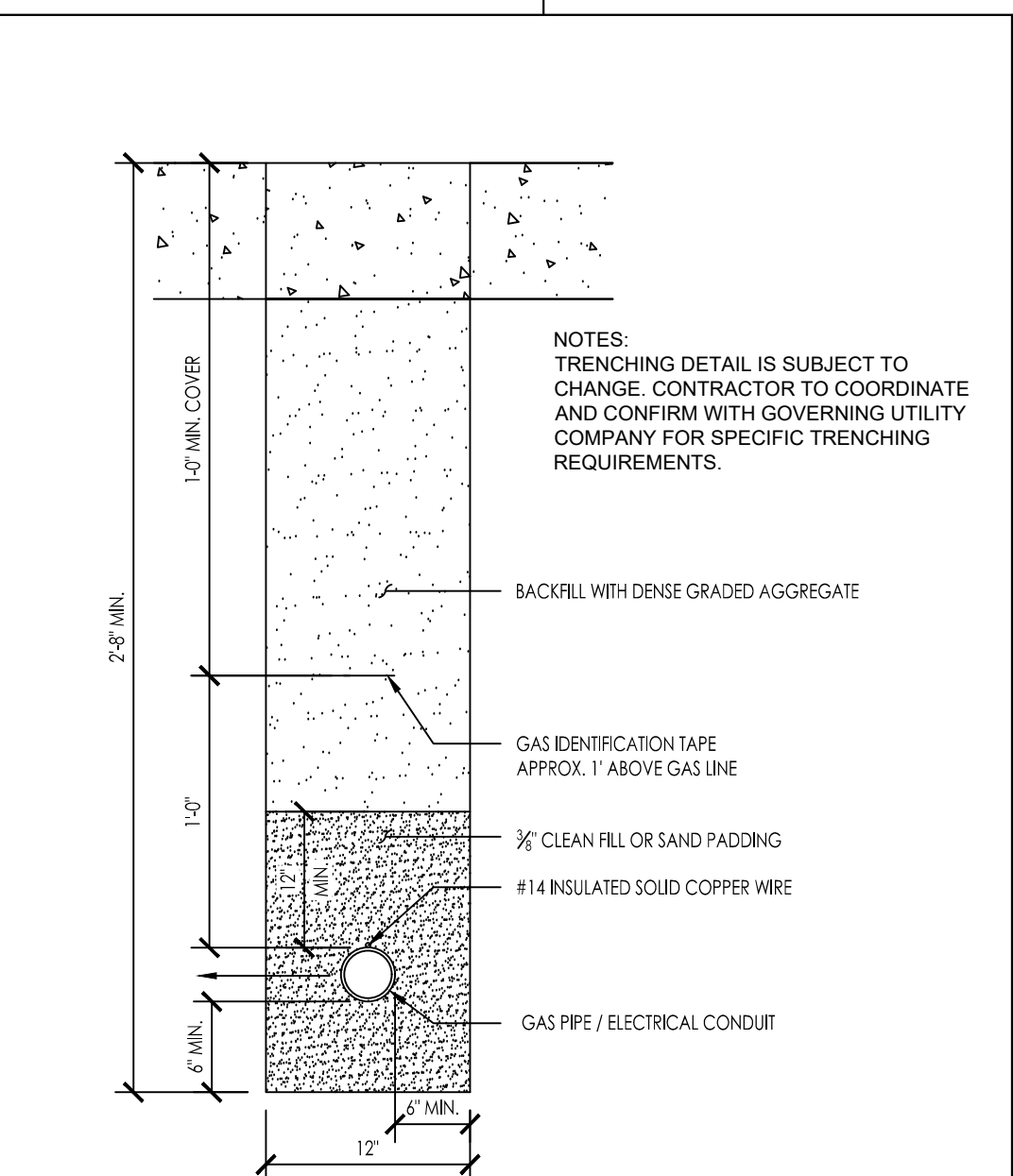
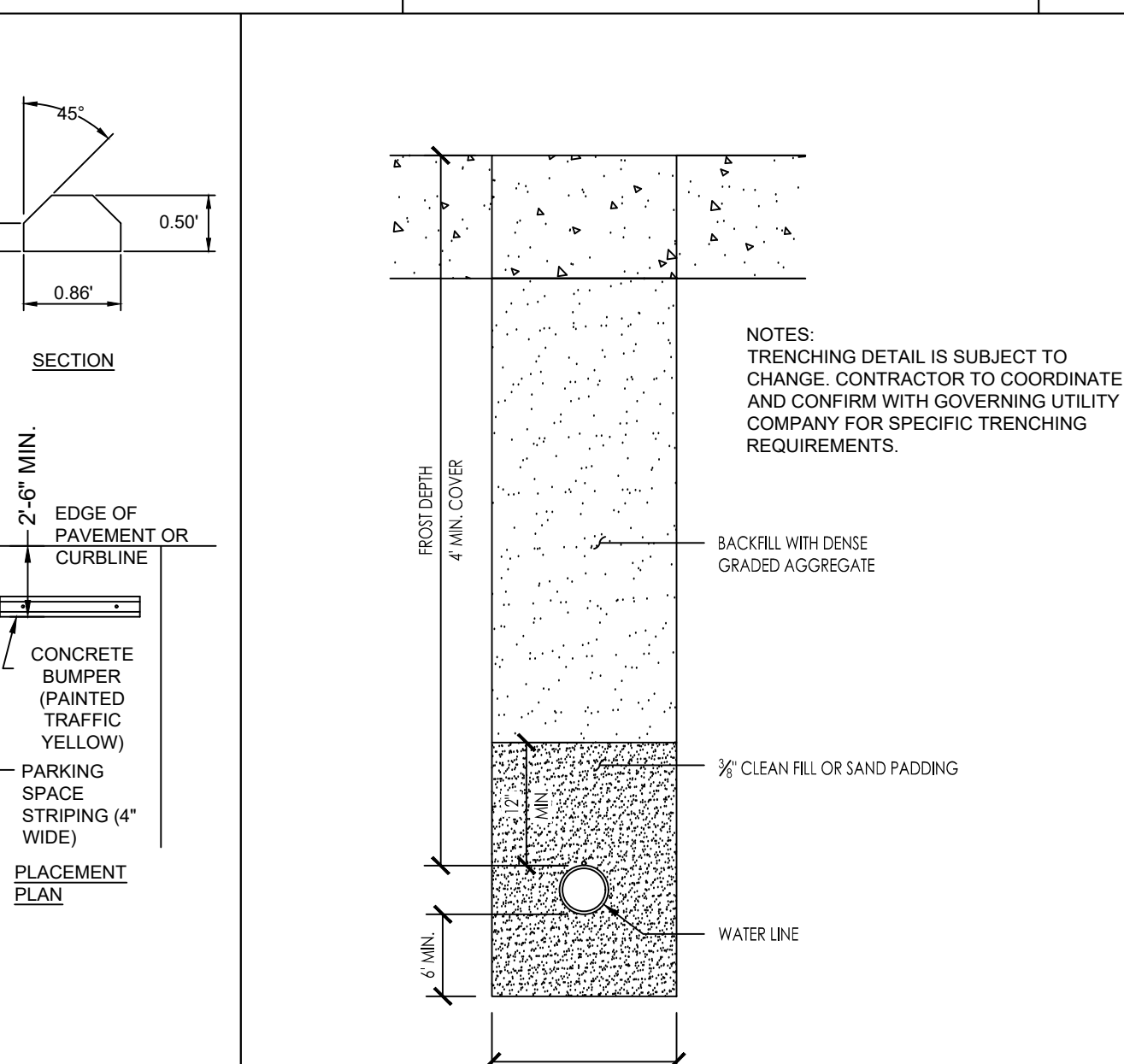
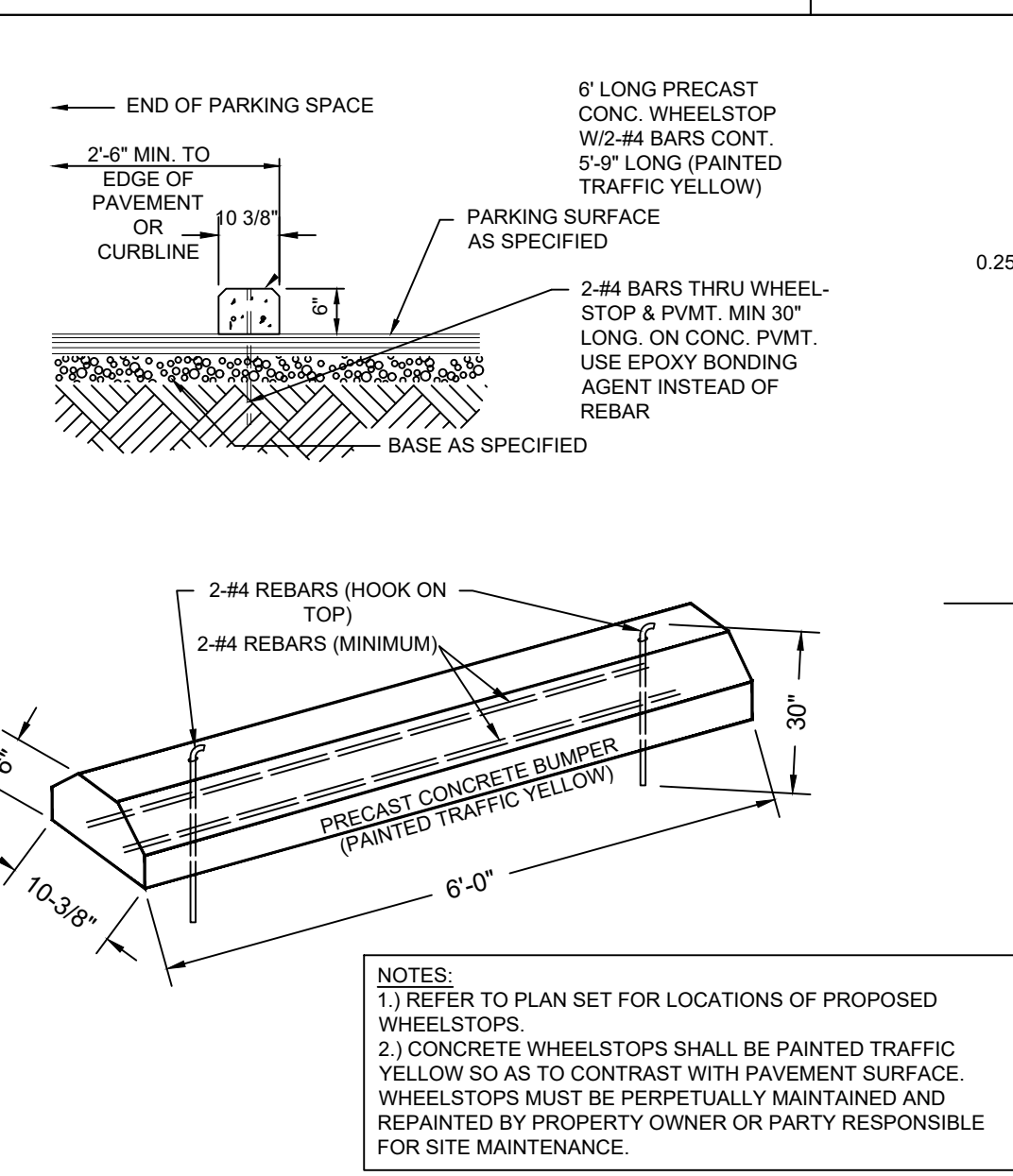
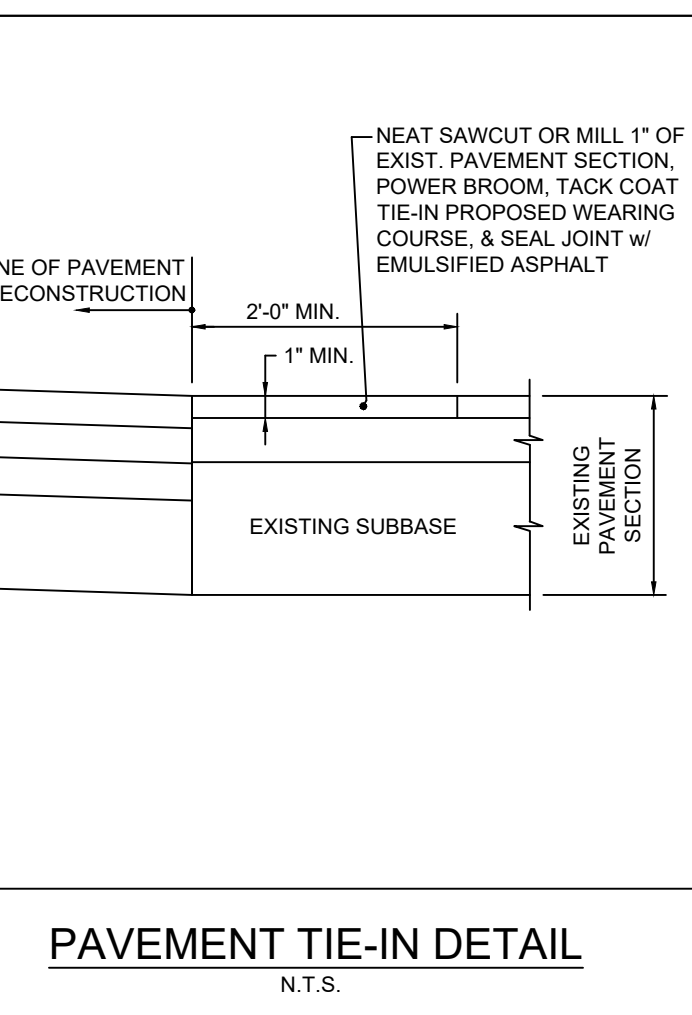
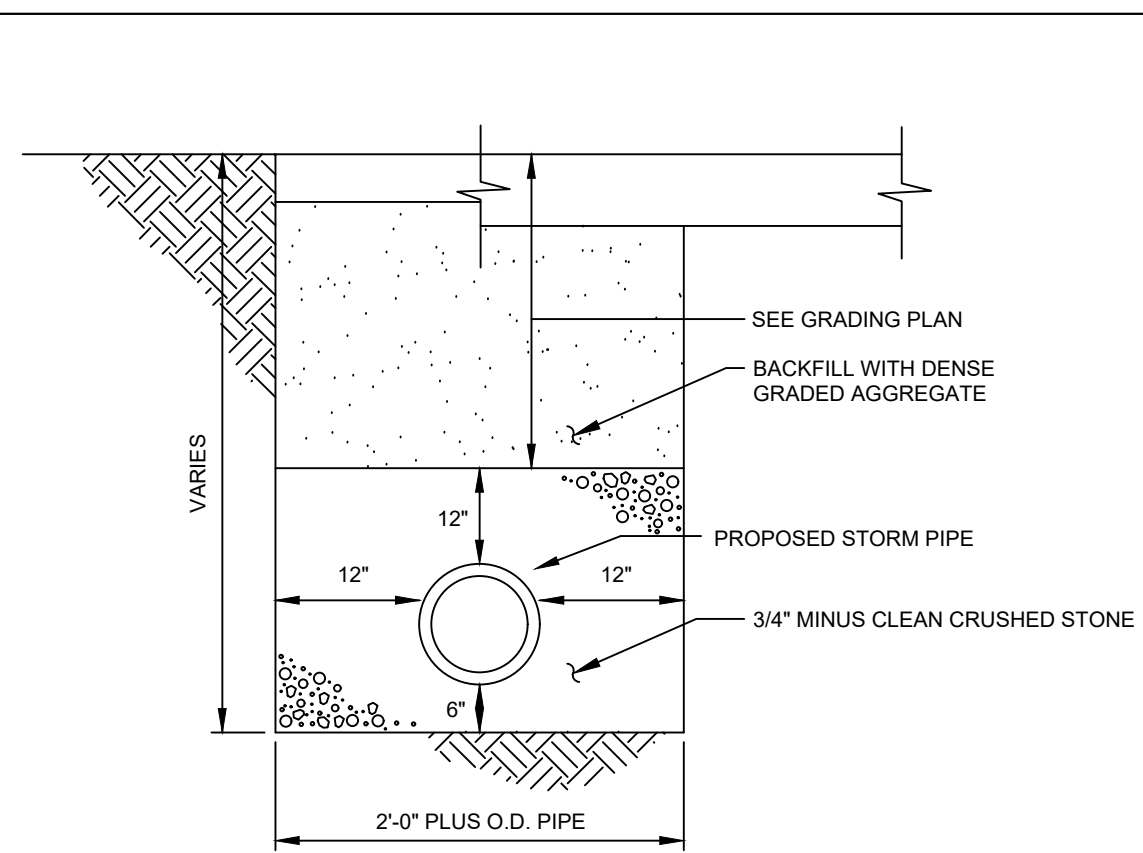
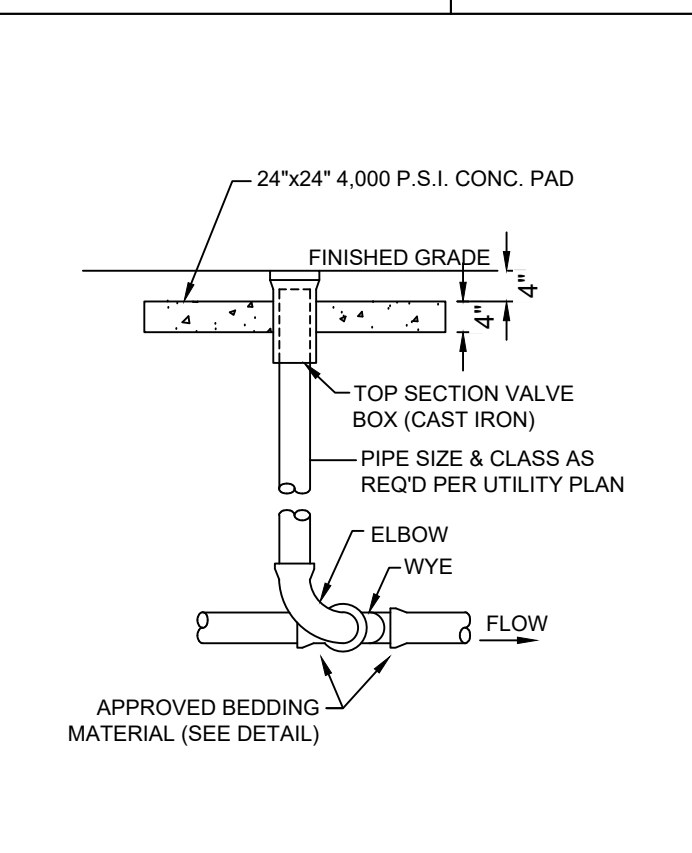
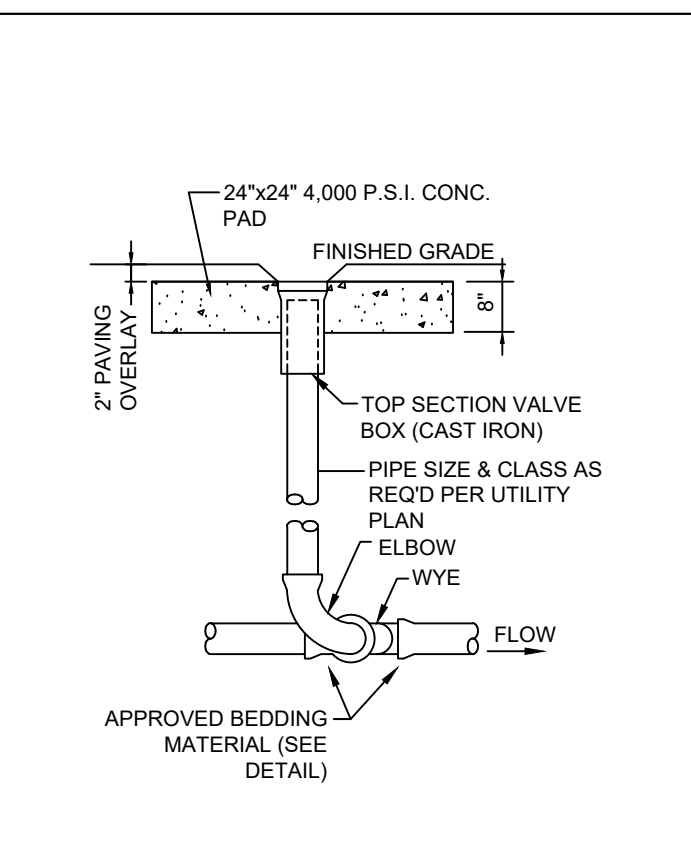
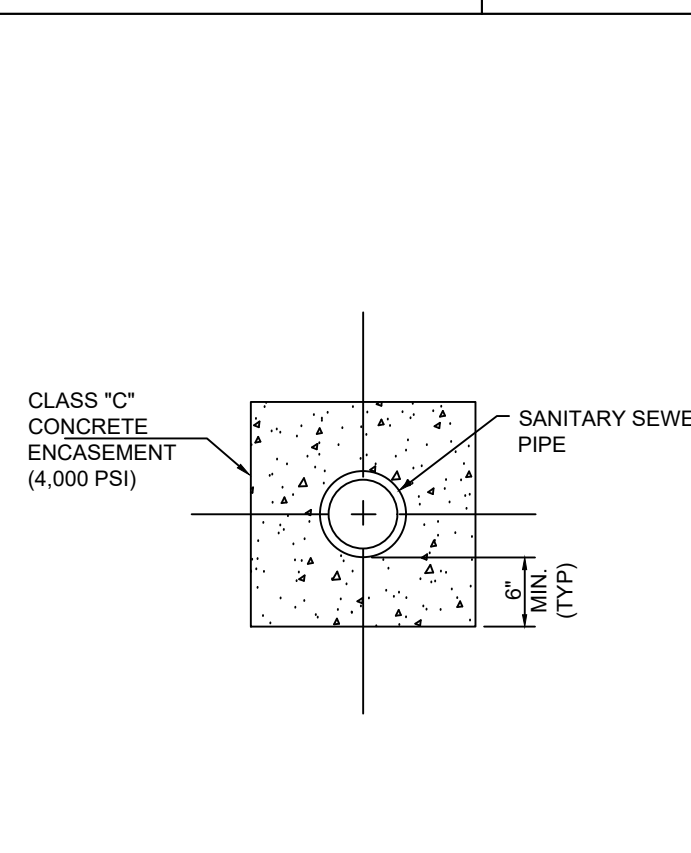
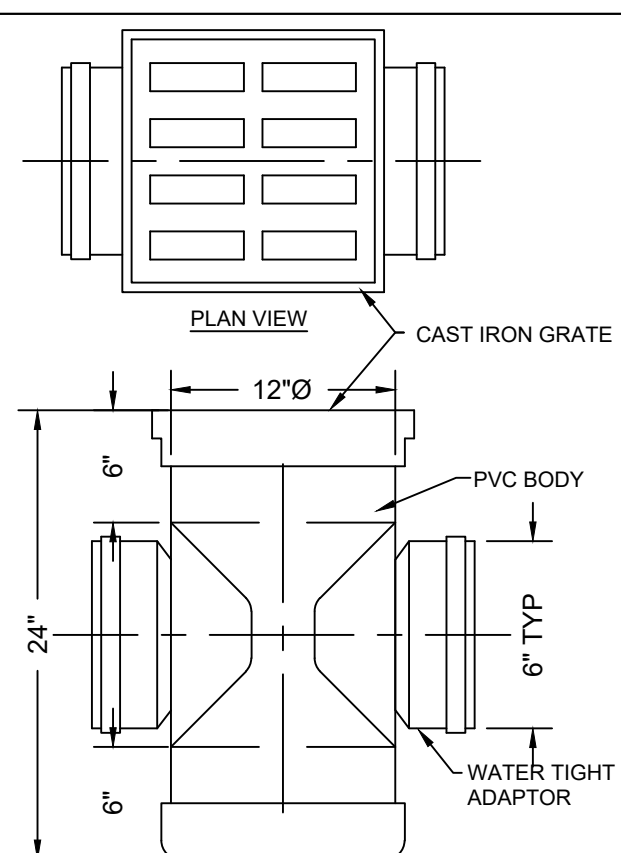
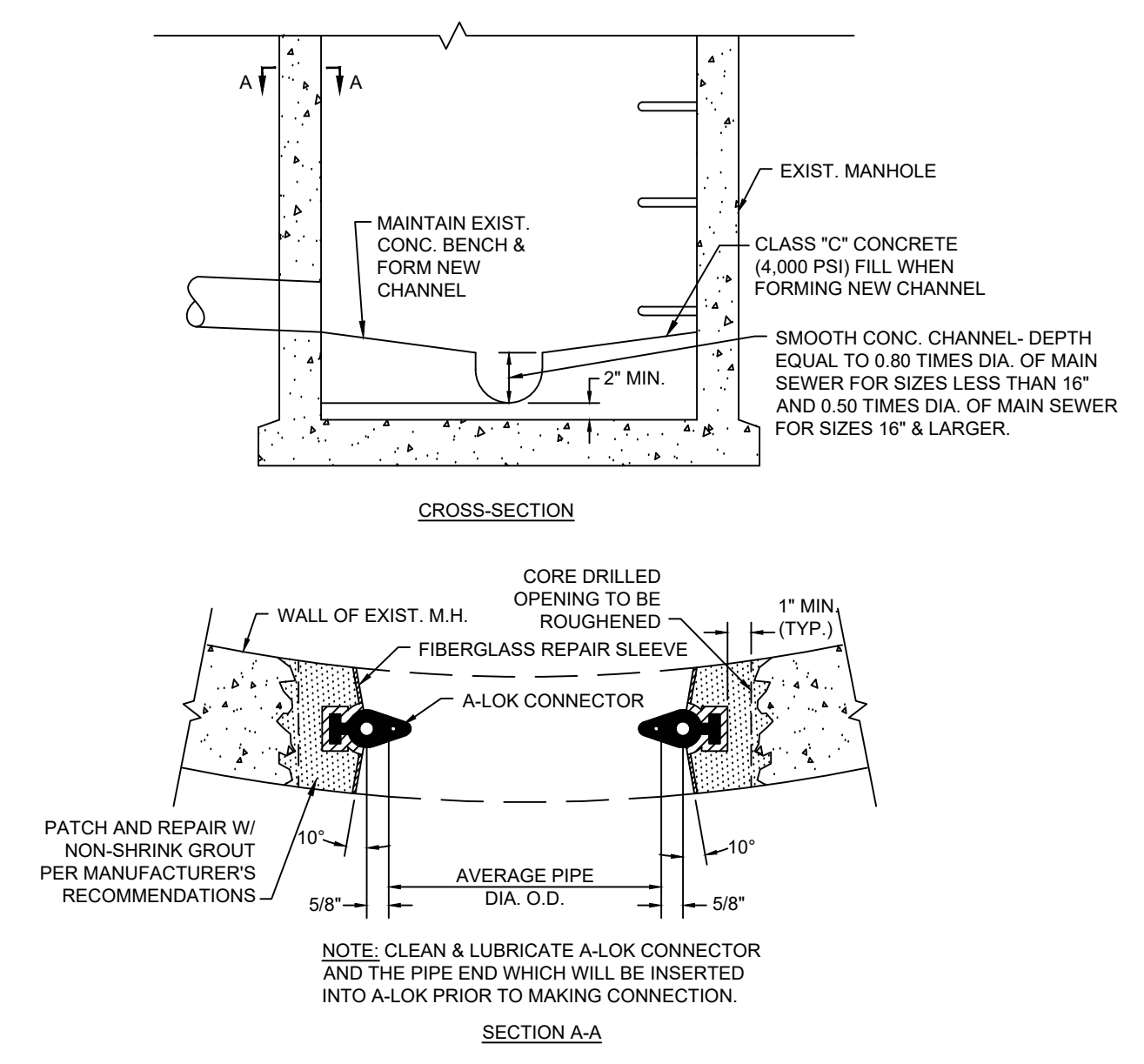
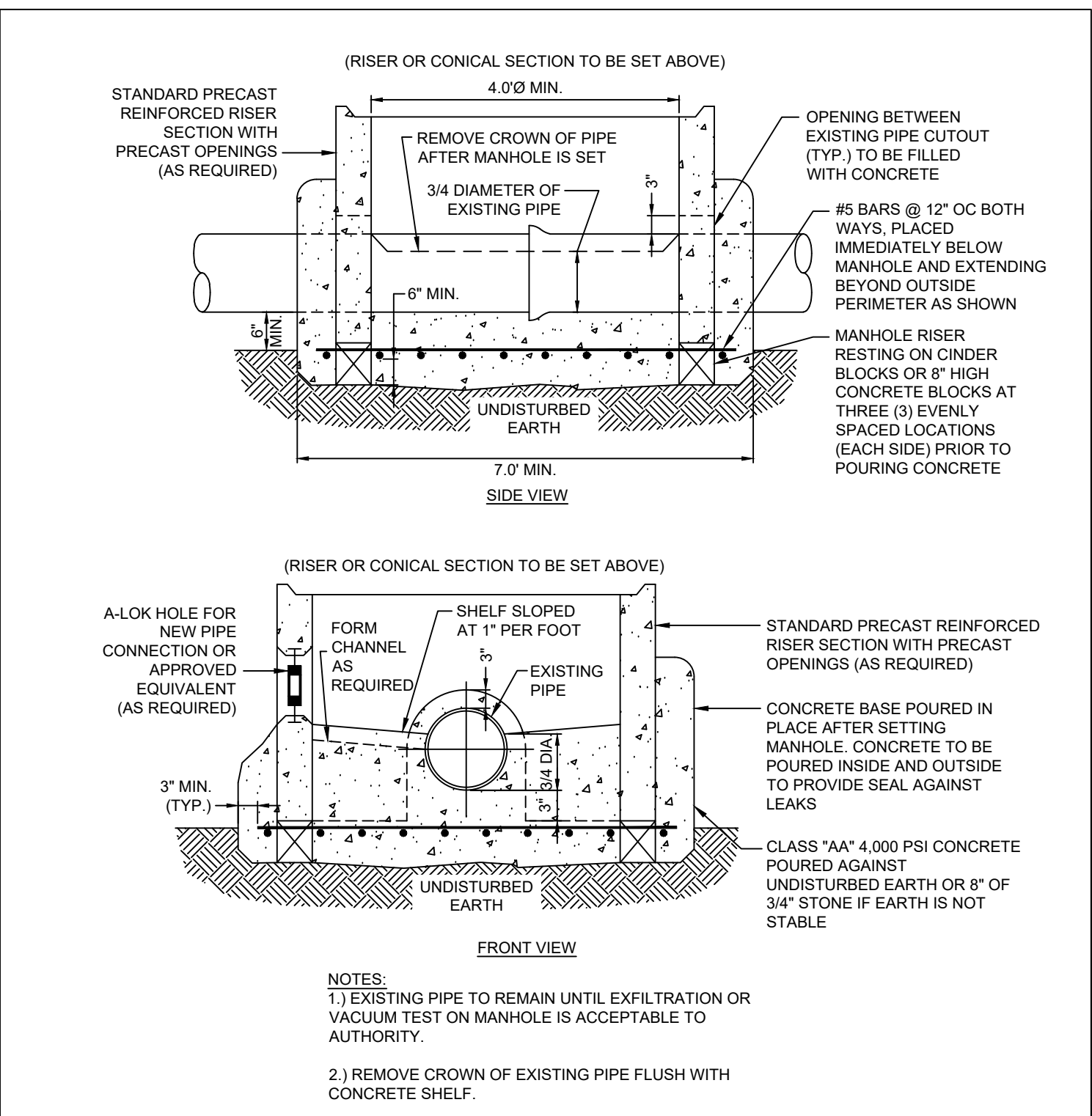
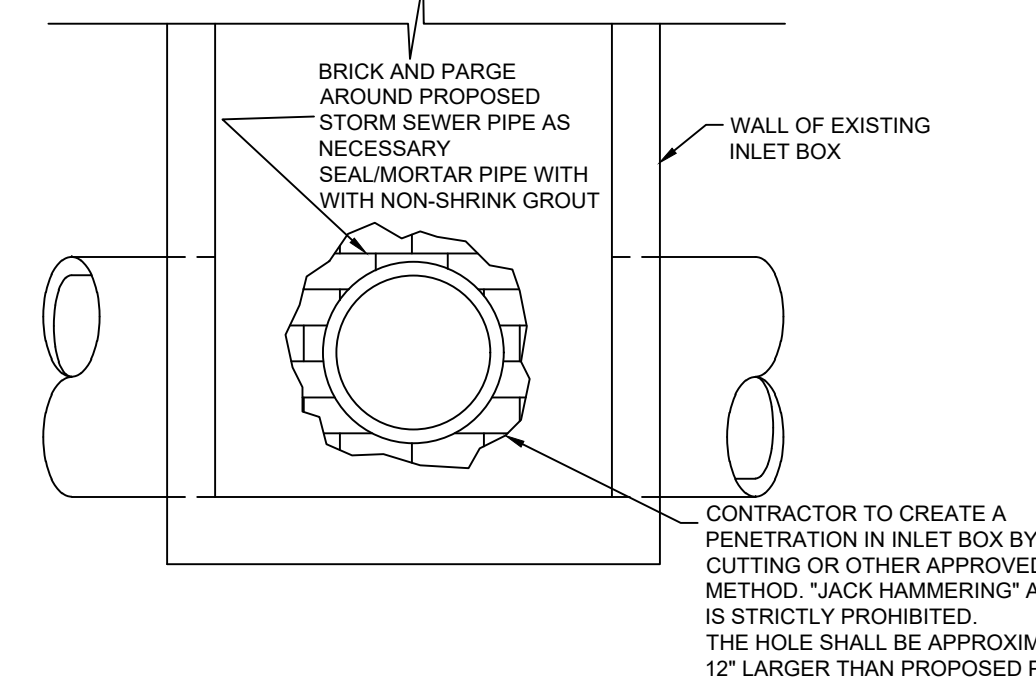
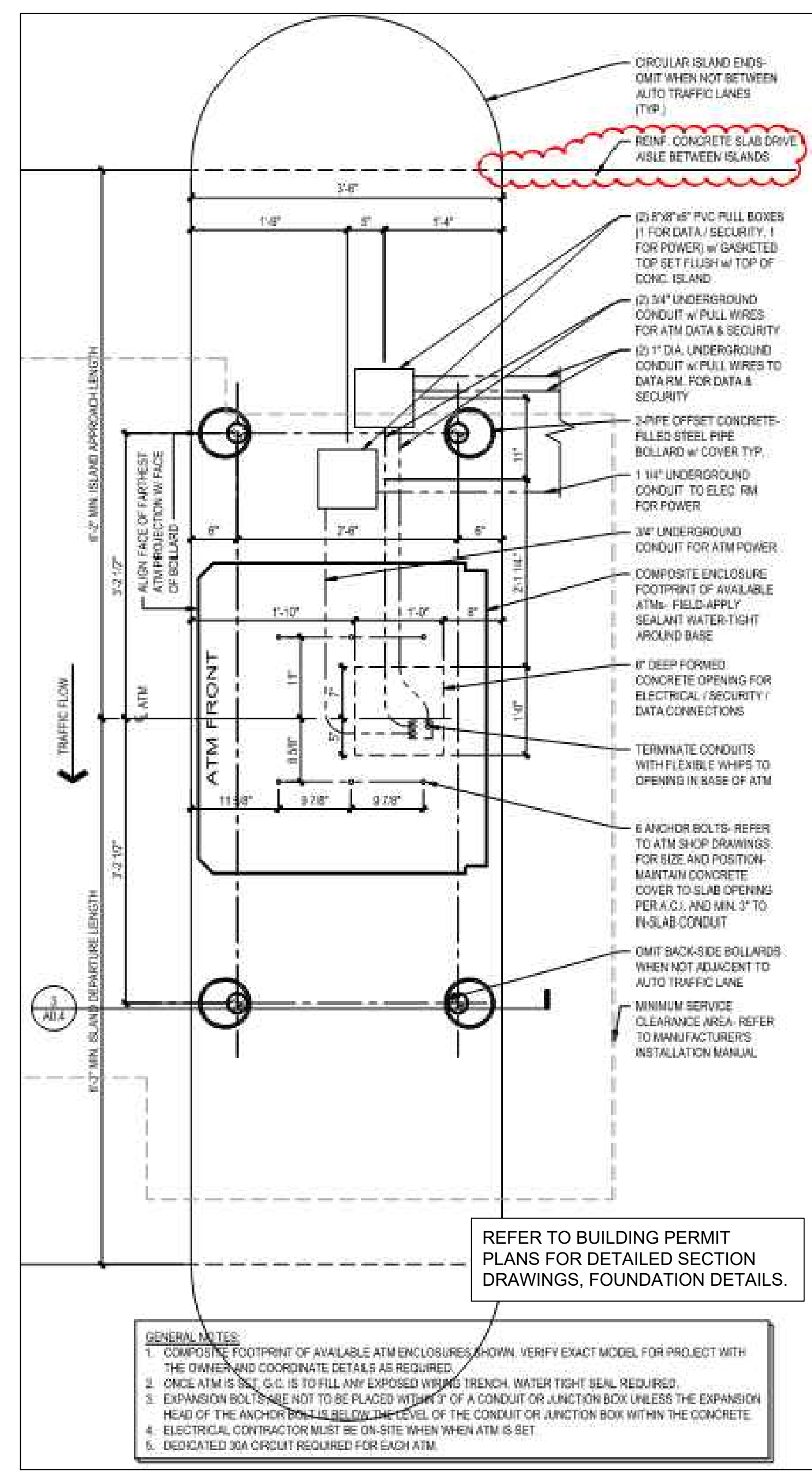
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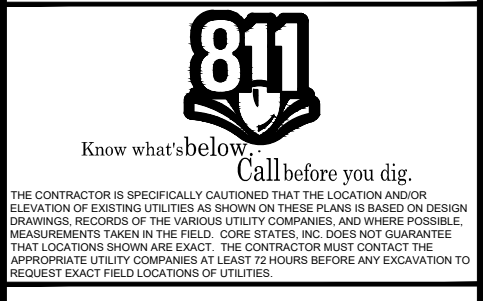
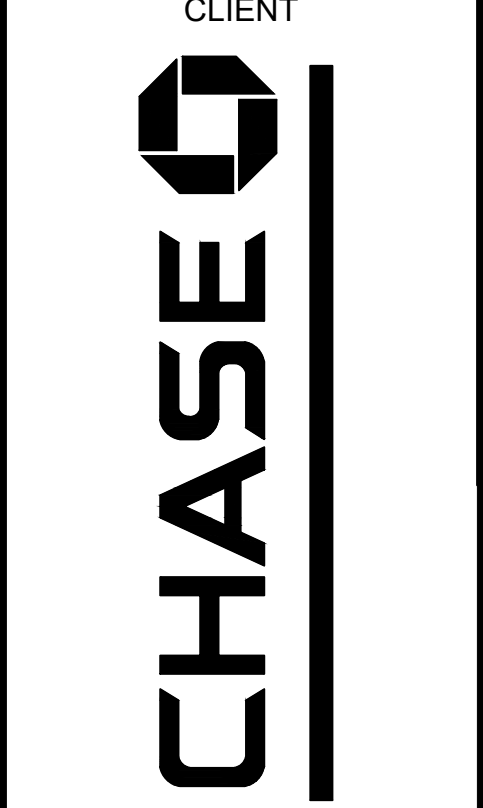
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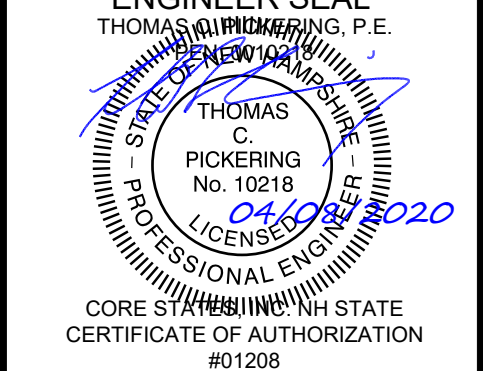
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DOCUMENT
SITE PLAN APPROVAL FOR CHASE BANK

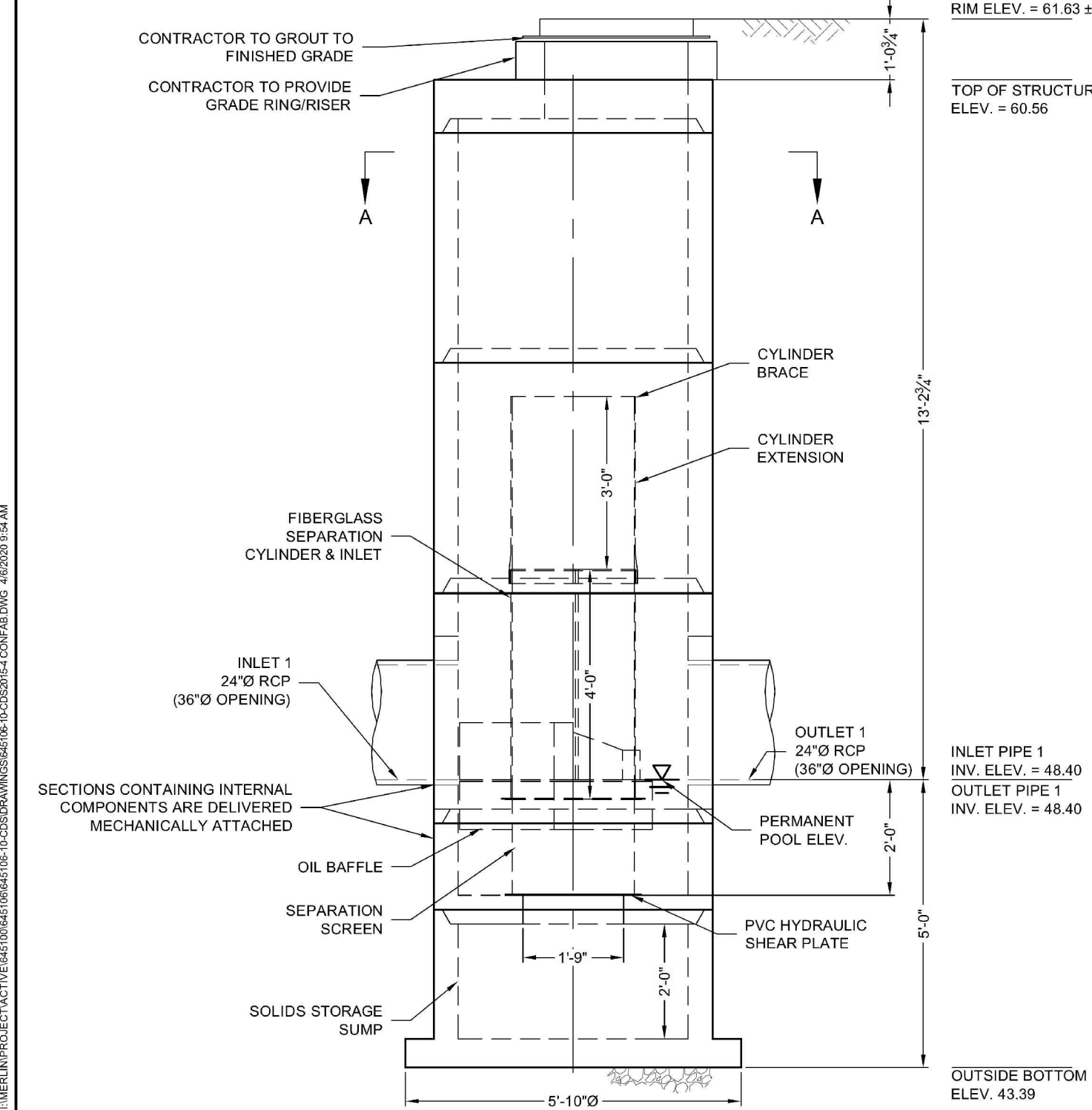
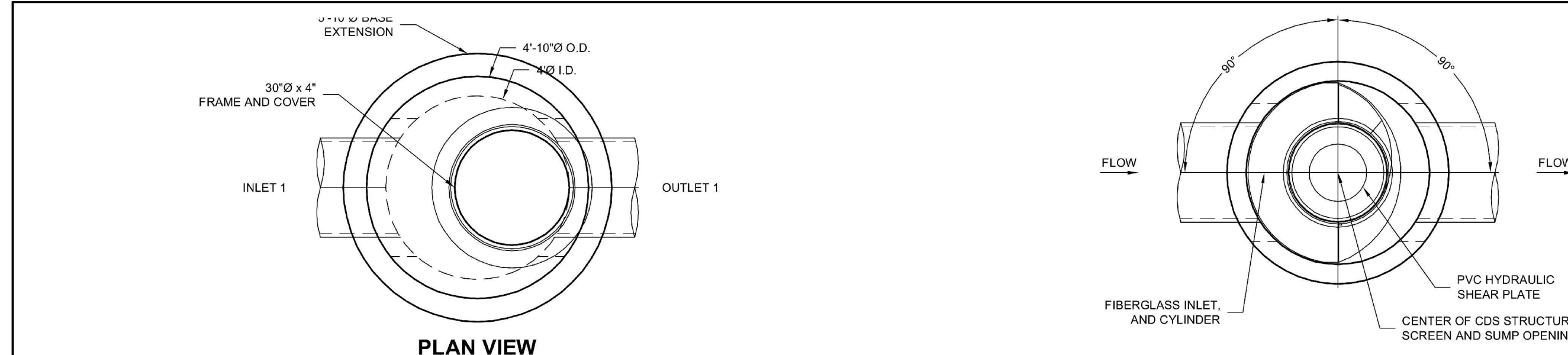
SITE LOCATION
1574 WOODBURY AVENUE, PORTSMOUTH, NH 03801



SHEET TITLE
CONSTRUCTION DETAILS

JOB #: JPM 27086
DATE: 04/03/2020
SCALE: AS NOTED
DRAWN BY: DJR
CHECKED BY: AR

SHEET NO.
CD-2



MATERIAL LIST (PROVIDED BY CONTECH)

COUNT	DESCRIPTION	INSTALLED BY
1	FIBERGLASS INLET AND CYLINDER	CONTECH
1	2400 micron, 2' O.D. x 1.67' SEP. SCREEN	CONTECH
1	CYLINDER EXTENSION	CONTRACTOR
1	CYLINDER BRACE	CONTRACTOR
1	3/16 INCH PVC HYDRAULIC SHEAR PLATE*	CONTECH
1	SEALANT FOR JOINTS	CONTRACTOR
1	30" x 4" FRAME & COVER, EJM41600484, OR EQUIV.	CONTRACTOR

* SEE HYDRAULIC SHEAR PLATE DETAIL.

GENERAL NOTES

- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.CoreStates.com
- CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
- STRUCTURE SHALL MEET AASHTO HS-20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2', AND GROUNDWATER ELEVATION AT OR BELOW THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M309 AND BE CAST WITH THE CONTECH LOGO.
- IF REQUIRED, PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.
- CDS STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.

INSTALLATION NOTES

- ANY SUB-BASE BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE.
- CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
- 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 ARE GROUTED.

STRUCTURE WEIGHT
APPROXIMATE HEAVIEST PICK = 5500 LBS.
STRUCTURE IS DELIVERED IN 5 PIECES

MAX FOOTPRINT = 05'-10"

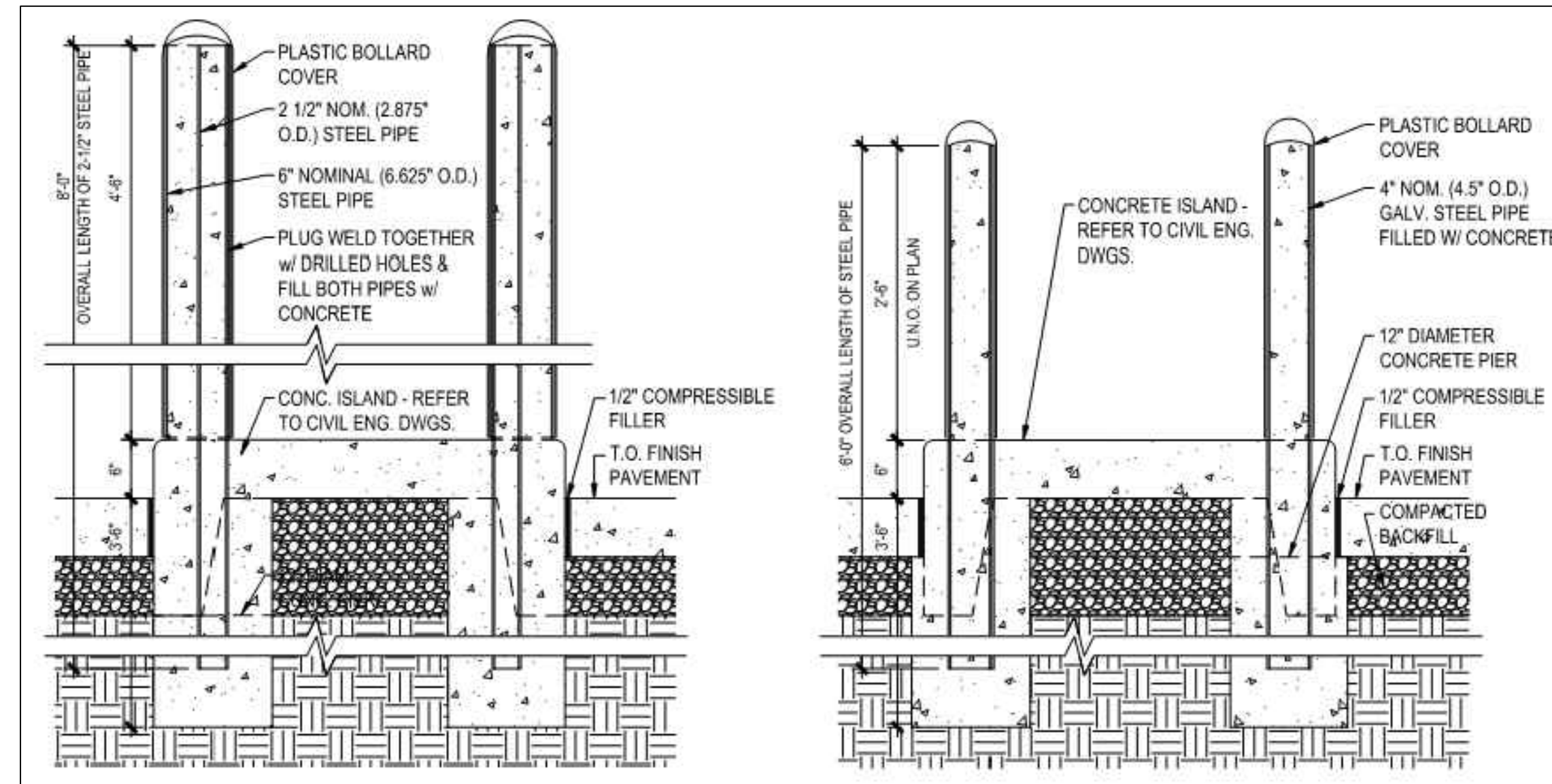
NO.	REVISION DESCRIPTION	DATE	BY

CDS2015-4-C-645106-10
CHASE BANK - PORTSMOUTH
PORTSMOUTH, NH
for SYSTEM: CDS

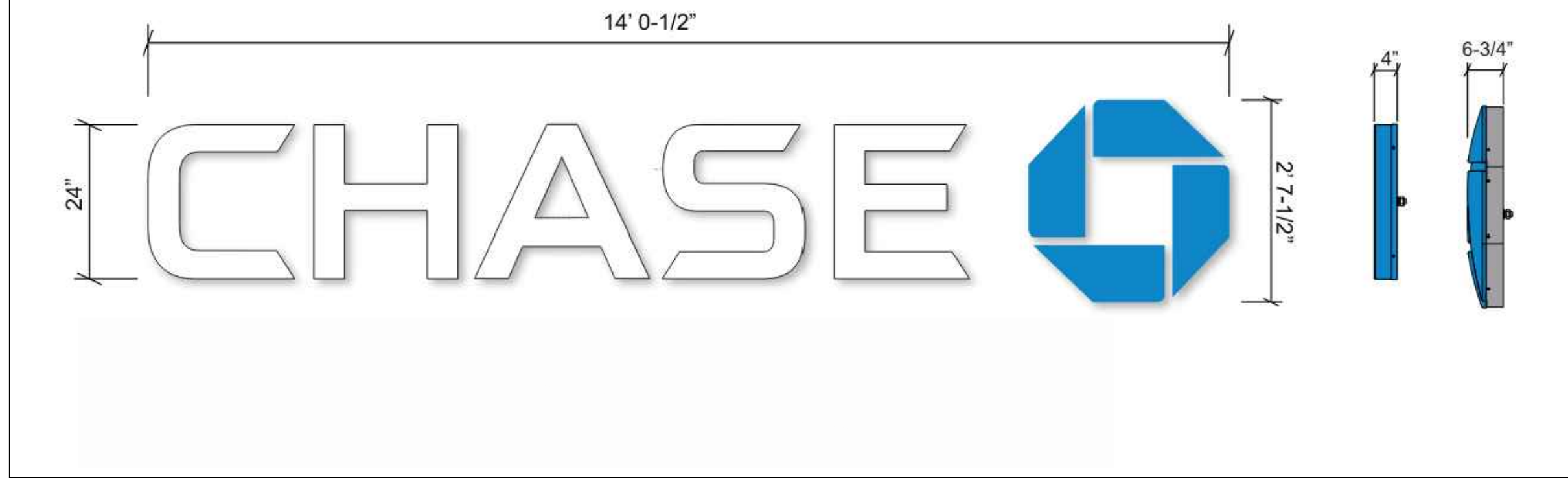
CONTECH ENGINEERED SOLUTIONS LLC
1000 North Main Street, Suite 200
Portsmouth, NH 03801
603.431.1234
www.CoreStates.com

Gps
Geographic Positioning System
1000 North Main Street, Suite 200
Portsmouth, NH 03801
603.431.1234
www.CoreStates.com

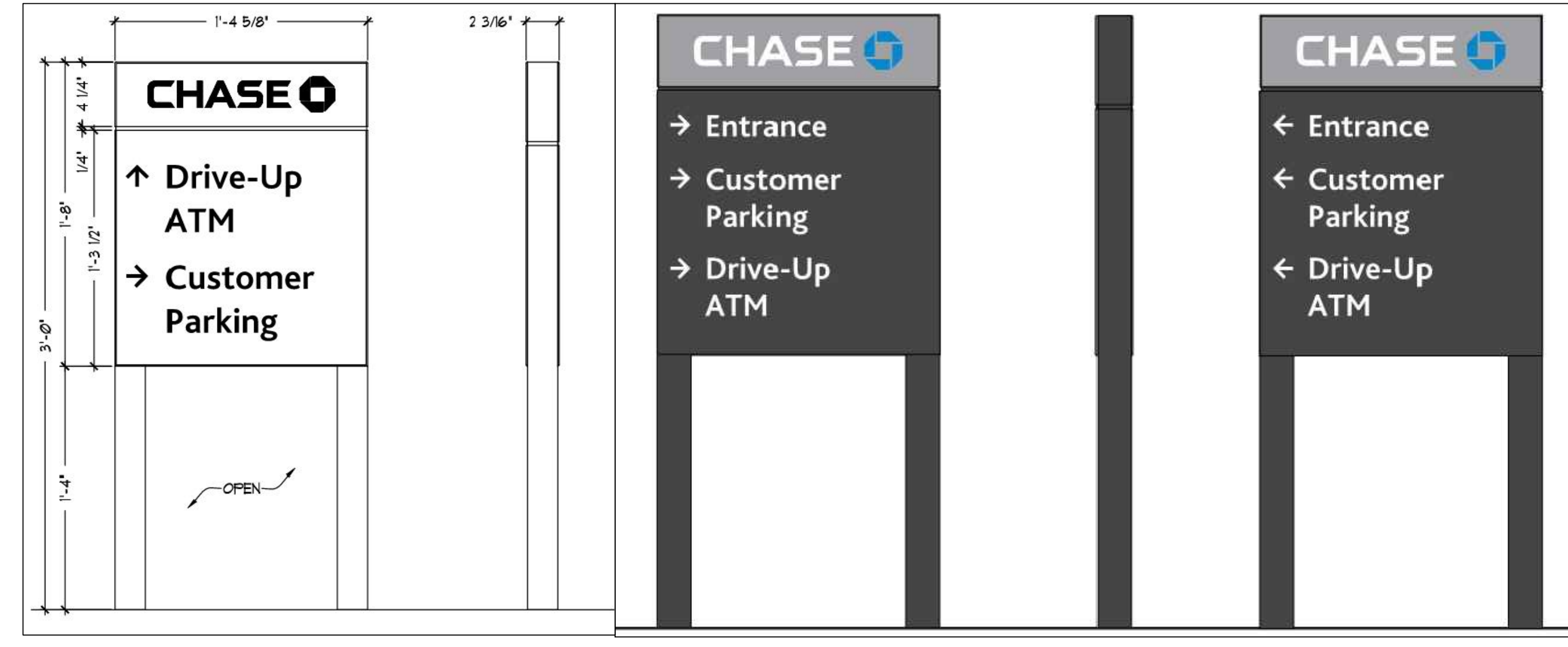
ARRO LAYOUT 1E
2015-4-CDS
5756 / 5756



DRIVE-UP ISLAND BOLLARD DETAILS
N.T.S.



CHASE WALL SIGN - 36.9 SF
N.T.S.



CHASE DIRECTIONAL SIGN - 2.3 SF
N.T.S.

CORE STATES INC.

12700 HILLCREST ROAD
DALLAS, TX 75220
(214) 377-5860
www.core-eng.com

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CLIENT

CHASE

Know what's below. Call before you dig.

The contractor is specifically cautioned that the location and/or elevation of existing utilities as shown on these drawings is based on records and field verification. CORE STATES, INC. DOES NOT GUARANTEE THE LOCATION, DEPTH, OR CHARACTER OF UTILITIES SHOWN ON THESE RECORDS. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION.

REV	DATE	COMMENT	BY
1	4/6/2020	RESUBMISSION TO TOWNSHIP	KGF

REV	DATE	COMMENT	BY

DOCUMENT

SITE PLAN APPROVAL FOR CHASE BANK

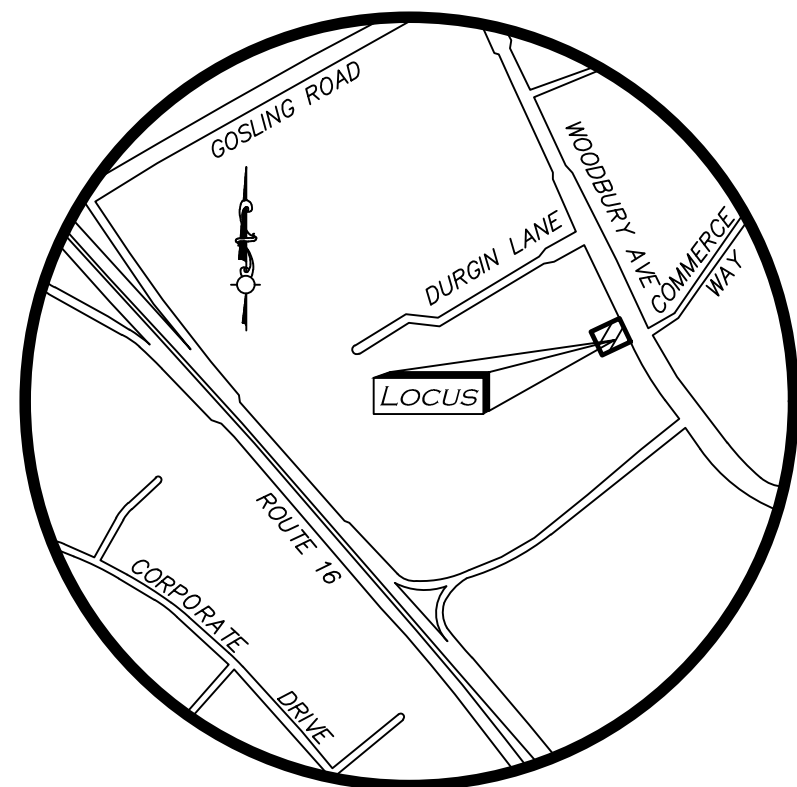
SITE LOCATION
1574 WOODBURY AVENUE,
PORTSMOUTH, NH
03801

ENGINEER SEAL
THOMAS C. PICKERING, P.E.
No. 10218
04/06/2020
LICENSED PROFESSIONAL ENGINEER
CORE STATES, INC. NH STATE
CERTIFICATE OF AUTHORIZATION #01205

SHEET TITLE
CONSTRUCTION DETAILS

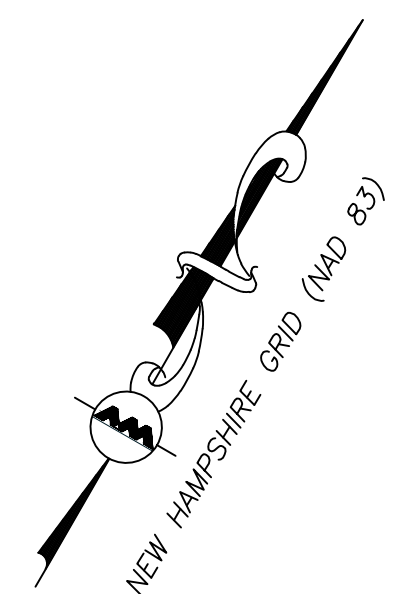
JOB #: JPM 27086
DATE: 04/03/2020
SCALE: AS NOTED
DRAWN BY: DJR
CHECKED BY: AR

SHEET NO.
CD-3

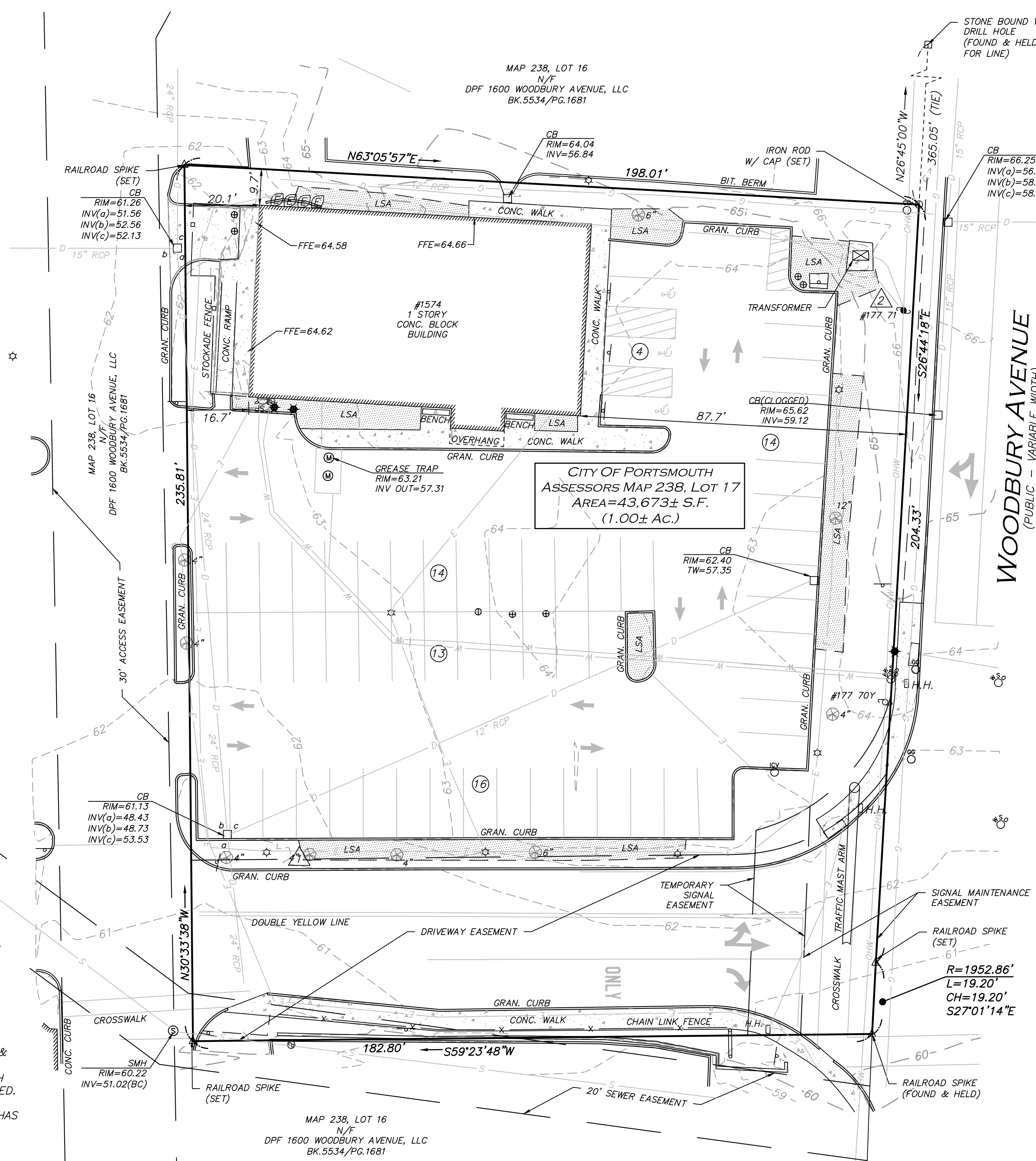


LOCUS MAP
(NOT TO SCALE)

PARKING SUMMARY	
STANDARD STALLS	58
HANDICAPPED STALLS	3
TOTAL STALLS	61



LEGEND	
IRON ROD (IR)	○
PK NAIL	△
SEWER MANHOLE (SMH)	⊗
MISC. MANHOLE (MH)	⊙
CATCH BASIN (CB)	⊠
UTILITY POLE	⊕
UTILITY POLE W/ RISER	⊕ ⁺
WATER GATE	⊕ ^W
GAS GATE	⊕ ^G
BOLLARD	⊙
LIGHT	⊙
PEDESTRIAN LIGHT	⊙
TREE	⊙
SIGN	⊙
SIGN	⊙
TRANSFORMER	⊙
ELECTRIC METER	⊙
HANDICAPPED PARKING SPACE	⊙
TRAFFIC MAST	⊙
PAINTED ARROW	→
PARKING SPACE COUNT	⊙
FIRE STANDPIPE	⊙
CONCRETE	▒
LANDSCAPED AREA (LSA)	▒
BUILDING	▒
BUILDING OVERHANG	▒
EASEMENT LINE	---
1' CONTOUR	-53-
5' CONTOUR	-55-
PROPERTY LINE	---
ABUTTERS LINE	---
SEWER LINE	S---
DRAIN LINE	D---
ELECTRIC LINE	E---
WATER LINE	W---
OVERHEAD WIRES	OHW
FINISHED FLOOR ELEVATION	FFE
BITUMINOUS	BIT.
CONCRETE	CONC.
GRANITE	GRAN.
BOTTOM CENTER	(BC)
REINFORCED CONCRETE PIPE	RCP
POLYVINYL CHLORIDE PIPE	PVC
NOW OR FORMERLY	N/F
BOOK	BK.
PAGE	PG.



UTILITY STATEMENT

THE UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. ALLEN & MAJOR ASSOCIATES, INC. (A&M) MAKES NO GUARANTEE THAT THE UTILITIES SHOWN HEREON COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. A&M FURTHER DOES NOT WARRANT THAT THE UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. A&M HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

BENCHMARK SUMMARY		
TBM #	DESCRIPTION	ELEV.
1	CHISEL SQUARE ON LIGHT POLE BASE	63.93
2	NAIL SET IN UP# 177 71	68.94

LOCUS REFERENCES

- CITY OF PORTSMOUTH ASSESSORS MAP 238, LOT 17
- R.C.R.D. BOOK 4452, PAGE 881
- PLAN ENTITLED, "LOT LINE RELOCATION PLAN FOR DSP SHOPPING CENTER, LLC., ENDICOTT HOTEL COMPANY & RICHARD P. FUSEGNI WOODBURY AVENUE AND DURGIN LANE COUNTY OF ROCKINGHAM, CITY OF PORTSMOUTH, NH." SCALE 1"=50', PREPARED BY MILLETTE SPRAGUE & COLWELL, INC. DATED JULY 24, 2003, AND ON FILE AT THE R.C.R.D. AS PLAN NO. 32458.

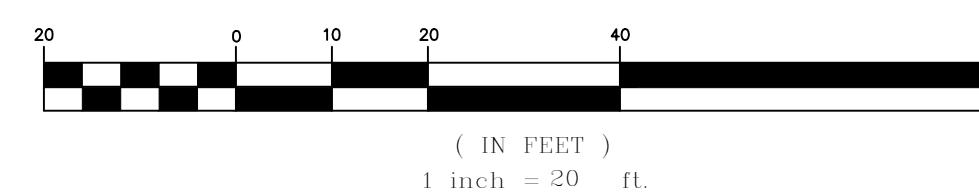
PLAN REFERENCES

- PLAN ENTITLED, "SIGNAL MAINTENANCE EASEMENT FOR PROPERTY AT 1574 WOODBURY AVENUE PORTSMOUTH, ROCKINGHAM COUNTY, NEW HAMPSHIRE, OWNED BY RICHARD P. FUSEGNI", 1"=20', DATED FEBRUARY 16, 2017, NORTH EASTERLY SURVEYING, INC., AND ON FILE AT THE R.C.R.D. AS PLAN NO. 40044.

NOTES

- NORTH ARROW IS BASED ON NEW HAMPSHIRE GRID COORDINATE SYSTEM (NAD 83)
- BOOK/PAGE AND PLAN REFERENCES ARE TAKEN FROM ROCKINGHAM COUNTY REGISTRY OF DEEDS IN BRENTWOOD, NH
- VERTICAL DATUM IS NAVD 88.
- CONTOUR INTERVAL IS ONE FOOT (1').

GRAPHIC SCALE



R:\PROJECTS\2614-05\SURVEY\DRAWINGS\CURRENT\5-2614-05-EC.DWG
FB# NH-13

THIS PLAN IS THE RESULT OF AN ACTUAL ON THE GROUND SURVEY PERFORMED ON OR BETWEEN JUNE 19, 2019 AND JULY 8, 2019 AND HAD AN ERROR OF CLOSURE OF NO GREATER THAN 1/10,000.

ALLEN & MAJOR ASSOCIATES, INC.

ISSUED FOR REVIEW
AUGUST 28, 2019

JAMES P. SMITH NH LLS #908 DATE

REV DATE DESCRIPTION

APPLICANT/OWNER:

CORE STATES GROUP
9 GALEN STREET
WATERTOWN, MA 02472

PROJECT:

CHASE BANK SITE
1574 WOODBURY AVENUE
PORTSMOUTH, NH

PROJECT NO. 261405 DATE: 8/28/19

SCALE: 1"=20' DWG. NAME: S-2614-05-EC

DRAFTED BY: AJR CHECKED BY: JPS

PREPARED BY:



ALLEN & MAJOR ASSOCIATES, INC.
civil & structural engineering • land surveying
environmental consulting • landscape architecture
www.allenmajor.com

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MANCHESTER, NH 03103
TEL: (603) 627-5500
FAX: (603) 627-5501

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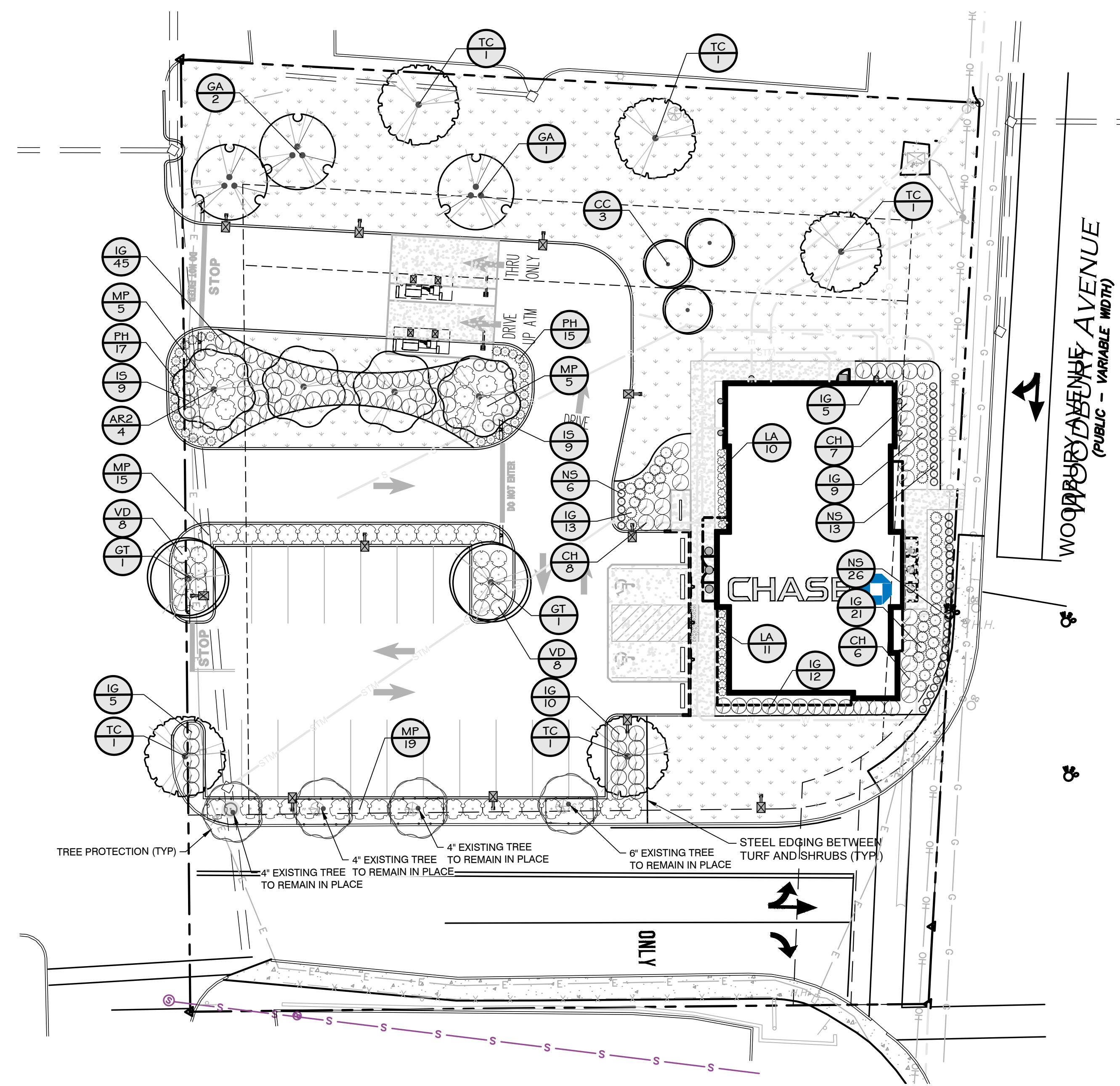
DRAWING TITLE: SHEET No.

EXISTING CONDITIONS 1

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PLANT SCHEDULE

Table with columns: TREES, SHRUBS, GROUND COVERS. Rows include botanical names like Acer rubrum, Cercis canadensis, Ginkgo biloba, etc., along with container sizes and quantities.



WOODBURY AVENUE (PUBLIC - VARIABLE WIDTH)

GENERAL GRADING AND PLANTING NOTES

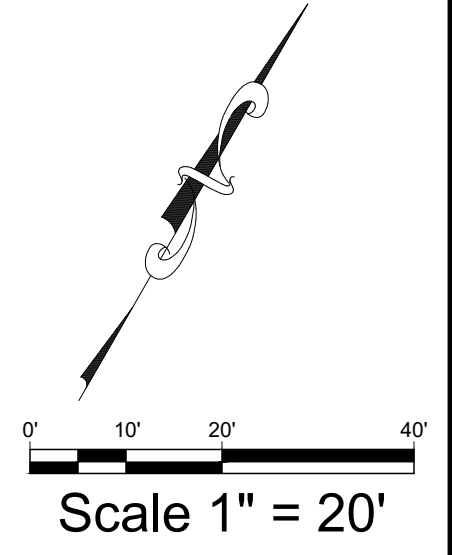
- 1. BY SUBMITTING A PROPOSAL FOR THE LANDSCAPE PLANTING SCOPE OF WORK... 2. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL EXISTING VEGETATION... 3. IN THE CONTEXT OF THESE PLANS, NOTES, AND SPECIFICATIONS, 'FINISH GRADE' REFERS TO THE FINAL ELEVATION OF THE SOIL SURFACE...

ROOT BARRIERS

THE CONTRACTOR SHALL INSTALL ROOT BARRIERS NEAR ALL NEWLY-PLANTED TREES THAT ARE LOCATED WITHIN FIVE (5) FEET OF PAVING OR CURBS.

MULCHES

AFTER ALL PLANTING IS COMPLETE, CONTRACTOR SHALL INSTALL 3" THICK LAYER OF 1-1/2" SHREDDED WOOD MULCH, NATURAL (UNDYED), OVER LANDSCAPE FABRIC IN ALL PLANTING AREAS.



CORE STATES INC. logo and contact information: 1270 HILLCREST ROAD, DALLAS, TX 75220.

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CHASE logo and CLIENT information.

811 logo with text 'Know what's below. Call before you dig.'

Table with columns: REV, DATE, COMMENT, BY. Contains revision history.

DOCUMENT SITE PLAN APPROVAL FOR CHASE BANK SITE LOCATION 1574 WOODBURY AVENUE, PORTSMOUTH, NH 03801

ENGINEER SEAL THOMAS C. PICKERING, P.E. with professional seal and license information.

SHEET TITLE LANDSCAPE PLANTING JOB #: JPM 27086 DATE: 04/08/2020 SCALE: DRAWN BY: EMS CHECKED BY: RM SHEET NO.

LP-1

EVERGREEN DESIGN GROUP logo and contact information: (800) 680-6630, 1200 US Highway 22 E Suite 2000-2248, Bridgewater, NJ 08807.



April 6th, 2020

City of Portsmouth, NH
City Hall
1 Junkins Avenue
Portsmouth, NH 03801

Re: Chase Bank
1574 Woodbury Avenue
Portsmouth, NH 03801

LEED Statement per Section 2.5.3.1A from the City of Portsmouth, NH Site Plan Review Regulations

Although Chase Bank does not intend on applying for LEED Certification, the following standards shall be incorporated into design and construction:

Water Efficiency:

- Indoor Water Use Reduction
 - Appropriate high efficiency fixtures will be scheduled on the drawings.

Energy & Atmosphere:

- Minimum Energy Performance
 - The building envelope, HVAC & lighting have been designed to meet the International Energy Code.
- Fundamental Refrigerant Management
 - New equipment; No CFC-based refrigerants are used in any equipment.
- Energy Efficient Lighting
 - All lighting to be LED.

Indoor Environmental Quality:

- Minimum Indoor Air Quality Performance
 - The building ventilation has been designed to meet the minimum requirements of ASHRAE 62.1-2004.



- The overall design solution will be implemented in the drawings and many sections of the specifications.
- Environmental Tobacco Smoke Control
 - Owner intends to prohibit smoking in the building.
 - Exterior smoking areas are located at least 25 feet away from the entries, outdoor air intakes and windows.
- Low-Emitting Materials – Adhesives & Sealants
 - Overall requirements for joint sealants, including duct sealers, with VOC content meeting the Green requirements.
 - Architectural joint sealants with maximum VOC content meeting the Green requirements.
 - Overall requirements for adhesives, with VOC content meeting the Green requirements.
- Low-Emitting Materials – Paints & Coatings
 - Paints & Stains; Water-based paints or solvent-based paints with VOC content meeting the Green requirements are used for all interior opaque applications.
- Low-Emitting Materials – Carpet Systems
 - Adhesives used in connection with carpet systems comply with VOC limit of 50 g/L.

Thermal Comfort:

- Thermal comfort, meeting the Green requirements is to be required with ventilation by mechanical means only.
- The overall design solution is implemented in the drawings and many sections of the specifications.

Roofing Membrane:

- Thermoplastic membrane roofing.
 - White membrane roofing, solar reflective index (SRI) 99.
 - Recycled content.

Sincerely,

James T. Lalli, AIA
Director of Architecture - Financial
908.462.9949 | jlalli@core-states.com



STORMWATER MANAGEMENT & SOIL EROSION CONTROL REPORT

FOR

JP MORGAN CHASE BANK – PORTSMOUTH

LOT 17, ASSESSOR MAP 238

1574 WOODBURY AVENUE

CITY OF PORTSMOUTH

ROCKINGHAM COUNTY, NEW HAMPSHIRE

PREPARED BY:

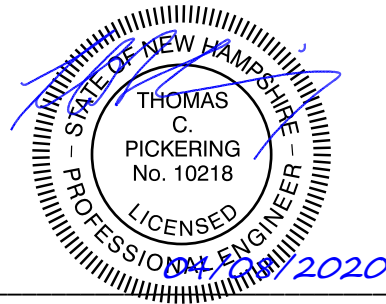
CORE STATES GROUP

9 Galen Street, Suite 117

Watertown, Massachusetts 02472

857-500-4702

April 03, 2020



Thomas Pickering, P.E.

NH License No. 10218

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- A. Overall Site Plan
- B. Web Soil Survey Map
- C. Hydraulic Calculations Report
- D. Drainage Area Maps
- E. Contech CDS Unit Specifications

I. INTRODUCTION

The proposed Chase Bank is a commercial re-development project within the G1, Gateway Corridor District, located on Woodbury Avenue between Durgin Lane and Arthur Brady Drive part of the overall development known as “Durgin Square” situated in the City of Portsmouth, New Hampshire. The overall site (**See Appendix “A”**) consists of a total tract area of 1.002 acres or 43,673 square-feet, as reference from Assessors Map 238 Lot 17. The proposed re-development of this property will include the demolition of approximately 4,600-square foot existing restaurant building, foundations, landscaping, pavement, concrete and associated utilities. The re-development proposes the construction of a new single-story Chase Bank with one (1) remote drive-thru ATM and bypass lane. The proposed redevelopment will disturb approximately 0.784 acres (34,171 sf) of the subject property. The design intent for stormwater management is to meet City of Portsmouth stormwater requirements under Ordinance Section-7.4 and in conjunction with New Hampshire Stormwater Manual.

The site is located solely within a commercialized area in the City of Portsmouth, New Hampshire. No streams or waterways are located on the subject site or adjoining the property. The subject property is occupying a parcel lot that is part of an overall shopping center. The intent of this report is to show the proposed stormwater analysis and conditions for the Chase Bank development. The majority of the site’s stormwater discharges to three (3) points of analyses that discharge directly to study points located as shown on the attached drainage area maps (**See Appendix “D”**).

II. METHODOLOGY

Run-off has been generated under both pre- and post-development conditions in accordance with “Technical Release No. 55-Urban Hydrology for Small Watersheds” and City of Nashua Stormwater Management Ordinance Section 190-215 “Stormwater management standards”.

Runoff curve numbers (CN’s) have been established by use of the hydrologic soil groups associated with the soils found in the Rockingham County Soil Survey. A composite soil survey map (**See Appendix “B”**) is provided for review of the general soil characteristics. See the chart below of CN number breakdown for existing and proposed.

	<u>CN</u>
Grass/Lawn Coverage (Soil Group B)	69
Impervious Coverage	98

The existing soil stratum found within the project area is comprised of one soil type, Chatfield-Jollis-Canton (140B) as identified from mapping available from the Natural Resource Conservation Service Web Soil Survey and found in **Appendix “B”**.

The proposed time of concentration is based on overland and sheet flow. The time of concentration for the drainage areas has been set to a minimum value of 6 minutes (0.10 hours), per the TR-55 Manual, for the purpose of the calculations.

Hydrographs were generated using “Hydraflow Hydrographs Extension for AutoCAD” by Autodesk, Inc. This program is based upon the Soil Conservation Service methodology for tabular hydrographs using the Type III storm event as detailed in” Technical Release No. 55- Urban Hydrology for Small Watersheds.” The 24-hour rainfall for the four (4) respective storms studied have been gathered from the National Oceanic and Atmospheric Administration rainfall data:

<u>Storm Event</u>	<u>24 Hour Rainfall</u>
2-yr*	3.32”
10-yr*	5.33”
25-yr*	6.59”
50-yr*	7.51”

*Based on Rainfall Event over a 24-hour period.

III. HYDROLOGIC ANALYSIS

A. Existing Drainage Area Conditions

As shown on the Existing Drainage Area Map (**See Appendix “D”**), the existing project is comprised of three (3) drainage areas, 0.784 acres, which all discharge into three (3) study points. Study Point 1 is identified as the majority of the onsite flow that flows to the existing stormwater conveyance system. Existing Drainage Area 1, which is primarily located on the north and west part of the site, drains to Study Point-1. Study Point 2 which collects Existing Drainage Area 2 is identified by the flow that bypasses the existing stormwater conveyance system and flows to overall shopping center. The last study point, Study Point 3, is identified as the overland flow that discharges onto the public Right-of-Way and does not flow into the shopping center system. The hydraulic calculations for the existing drainage areas for each study point can be found in **Appendix “C”**.

B. Proposed Drainage Area Conditions

The proposed drainage conditions are design to replicate the existing drainage conditions while meeting the City of Portsmouth’s stormwater regulations. As shown on the Proposed Drainage Area Map (**See Appendix “D”**). As it is existing, the proposed drainage area map comprises of three drainages areas which discharge to three separate study points. The hydraulic calculations for the proposed drainage areas for each study point can be found in **Appendix “C”**. The description of each drainage area is located below.

IV. STORMWATER MANAGEMENT REQUIREMENTS

A. Best Management Practices (Section 7.4.2)

Per the City of Portsmouth Stormwater Management Regulations as described in Section 7.4 of Site Plan Review regulations all developments under site plan review regardless of limit of disturbance shall meet, as applicable, the 23 requirements for Best Management Practices. Below you will find how the development meets the applicable management practices.

- **Section 7.4.2.1-3**

The Best Management Practices for sections 1-3 are not applicable to the project and therefore do not need to be met.

- **Section 7.4.2.4**

“Snow storage areas shall be located such that no direct discharges to receiving waters are possible from the storage site. Runoff from snow storage areas shall enter treatment areas to remove suspended solids and other contaminants before being discharged to receiving waters or preferably be allowed to infiltrate into the groundwater.”

The proposed project is a redevelopment and near no streams or waterways, therefore would not have any direct discharge into receiving waters. Additionally, as part of the redevelopment the project is proposing water quality system at the most downstream part of the existing conveyance system to treat site runoff. Further details on the proposed water quality system of the project can be found below.

- **Section 7.4.2.5**

“Every effort shall be made to retain stormwater on the site using the natural or existing flow patterns of the site.”

The proposed project is a redevelopment where a majority of the existing drainage patterns are contained on the on-site storm conveyance system and do not discharge to adjacent properties. As part of the proposed redevelopment the existing drainage patterns will be maintained.

- **Section 7.4.2.6-7**

The Best Management Practices for sections 6-7 are not applicable to the project and therefore do not need to be met. Since the overall site is being reduced in impervious coverage and on-site water quality system is being proposed, the need for infiltration practices are not required.

- **Section 7.4.2.8**

“Measure shall be taken to control the post-development peak rate of runoff so that it does not exceed pre-development runoff for the 2-, 10-, 25-, 50-year, 24 hour storm event.

In order to meet this standard, a pre- and post- development comparison of the 2-, 10-, 25-, 50- year storm events for each study point can be found in **Appendix “D”**. The calculations show that at any point the post-development peak discharge rate does not exceed the pre-development peak discharge rate for any storm event. A summary of the runoff quantities can be found on the table below:

Summary of Existing and Proposed Runoff Quantity			
Area	Storm Event	Existing	Proposed
		Flow (cfs)	Flow (cfs)
Study Point - 1	2-year	2.103	1.535
	10-year	3.592	2.984
	25-year	4.514	3.900
	50-year	5.184	4.567
Study Point - 2	2-year	0.053	0.042
	10-year	0.119	0.121
	25-year	0.163	0.177
	50-year	0.195	0.220
Study Point -3	2-year	0.047	0.060
	10-year	0.117	0.146
	25-year	0.164	0.206
	50-year	0.199	0.250
TOTAL LOT RUNOFF	2-year	2.203	1.637
	10-year	3.828	3.252
	25-year	4.841	4.283
	50-year	5.578	5.037

As shown above a majority of the site’s runoff is being reduced except for study points 2 & 3 which shown a slight increase in post-development runoff however very insignificant volume/flow . However, the total combined runoff is being reduced.

Therefore, described above and through the hydraulic analysis of the pre-development and post-development conditions of the site, the proposed development meets the criteria for stormwater quantity as defined in Section 7.4.2.8 in the City of Portsmouth Ordinance.

- **Section 7.4.2.9**

“The applicant shall demonstrate that on- and off-site downstream channel or system capacity is sufficient to carry the stormwater run-off volume flow without adverse effects, such as flooding and erosion of stream banks and shoreland areas.

As previously stated, the overall combined site runoff of the post-development drainage is being reduced from the pre-development conditions. Therefore, it is determined that no adverse effects of the downstream bank for the proposed project.

- **Section 7.4.2.10**

The Best Management Practices for section 10 are not applicable to the project and therefore do not need to be met.

- **Section 7.4.2.11**

“For a storm even of ½ inch or less, the applicant shall demonstrate that stormwater management practices will remove contaminants from the stormwater runoff that leaves the site. The use of oil and grit traps in manholes, on-site vegetated waterways, and vegetated buffer strips along waterways and drainage swales, and the reduction in use of deicing salts and fertilizers may be required by the Planning Board.”

Per the New Hampshire Stormwater Manual and the City of Portsmouth, a water quality device was added at the most downstream pipe conveyance system to meet the requirements. The proposed water quality device meets the Standards depicted in the New Hampshire Stormwater Manual which requires 80% TSS Removal rate of the “first wash” water quality storm event.

The New Hampshire Stormwater Manual defines the “first wash” water quality storm as the first 1” rainfall of any given storm event. As mentioned previously a CDS 2015-4 unit by Contech has been provided to meet these standards, a CDS Removal Rate calculated for this project has been provided in **Appendix “E”**. The CDS unit uses indirect screening technique to remove suspended solids, fine sands and larger particles. Additionally, the unit has an internal weir/bypass system to only provide solids removal for the water quality storm event and not inhibit the flow of the other storm events. A design summary of the CDS Unit can be found in **Appendix “E”**.

- **Section 7.4.2.12**

The Best Management Practices for section 12 are not applicable to the project and therefore do not need to be met.

- **Section 7.4.2.13**

“The design of the on-site stormwater drainage systems shall not increase or impede existing flows.”

As previously stated, the overall combined site runoff of the post-development drainage is being reduced from the pre-development conditions. Therefore, it is determined that no adverse effects to the existing flows.

- **Section 7.4.2.14-19**

The Best Management Practices for sections 14-19 are met through the proposed project. An extensive landscape and soil erosion plans are proposed to maintain integrity of downstream drainage systems in and the proposed development shall be stabilized as per these requirements.

- **Section 7.4.2.20-23**

The Best Management Practices for section 20-23 are not applicable to the project and therefore do not need to be met.

B. Groundwater Recharge

Per the New Hampshire Stormwater Manual the proposed development groundwater recharge must meet the pre-development groundwater recharge. Since the overall impervious coverage of the site is being reduced the annual post development groundwater recharge will naturally exceed what is existing. It is determined, that no additionally BMP techniques are required to meet the groundwater recharge volume requirement.

V. SOIL EROSION AND SEDIMENT CONTROL

A. Overview

The Soil Erosion and Sediment Control Measures for this project include adequately installed perimeter silt fencing, temporary and permanent seeding and mulching, inlet protection, and the installation of temporary stone tracking pads at the project site entrance. A Phase I and Phase II plan has been provided in the drawings set for your reference. All provisions are to be in accordance with the “New Hampshire Stormwater Manual Volume 3”.

The soil erosion and sediment control plan will minimize the downstream erosion hazard by controlling runoff at its source, minimizing runoff from disturbed areas and de-concentrating storm water runoff. The objectives of the erosion control plan will be achieved through the management of storm water runoff during construction.

B. Temporary Erosion and Sediment Control Measures

The temporary soil erosion and sediment control measures will include, but not limited to, silt fences, diversion ditches, stabilization of the construction entrance, sediment traps and basins, storm drain inlet protection, hydro-seeding and dust control. Detailed descriptions of each of the measures that will be employed on the project have been included in the following paragraphs:

- **Silt Fences** - Silt fences consist of standard strength filter fabric with wire mesh reinforcement (or extra strength synthetic filter fabric) secured to supporting posts and entrenched at the base. Filter fabric requirements and installation design criteria will be in accordance with the requirements in the “New Hampshire Stormwater Manual Volume 1-3”. Silt fences will be installed on the down slope side of work areas, as close to the disturbed areas as possible. Sediment will be removed from behind silt fences when sediment has accumulated to one-third of the original height of the fence.
- **Dust Control** - Dust Control shall be accomplished through the use of vegetative cover, mulch, spray adhesive, sprinkling or barriers. Water will be applied by sprinkler or water truck as necessary during grading operations to minimize sediment transport and maintain acceptable air quality conditions. Repetitive treatments will be done as needed until grades are paved or stabilized with vegetation.
- **Stabilized Construction Entrance** - A ramp of crushed stone extending a minimum distance of 50 feet will be installed at each point of ingress and egress from the site. The purpose of the device is to minimize the potential of tracking mud from the site onto public rights-of-way or adjoining properties. The entrance shall be maintained in a condition, which will prevent tracking, or flowing of sediment onto public rights-of-way, all sediment spilled, dropped, washed or tracked onto public rights-of-way must be removed immediately. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.

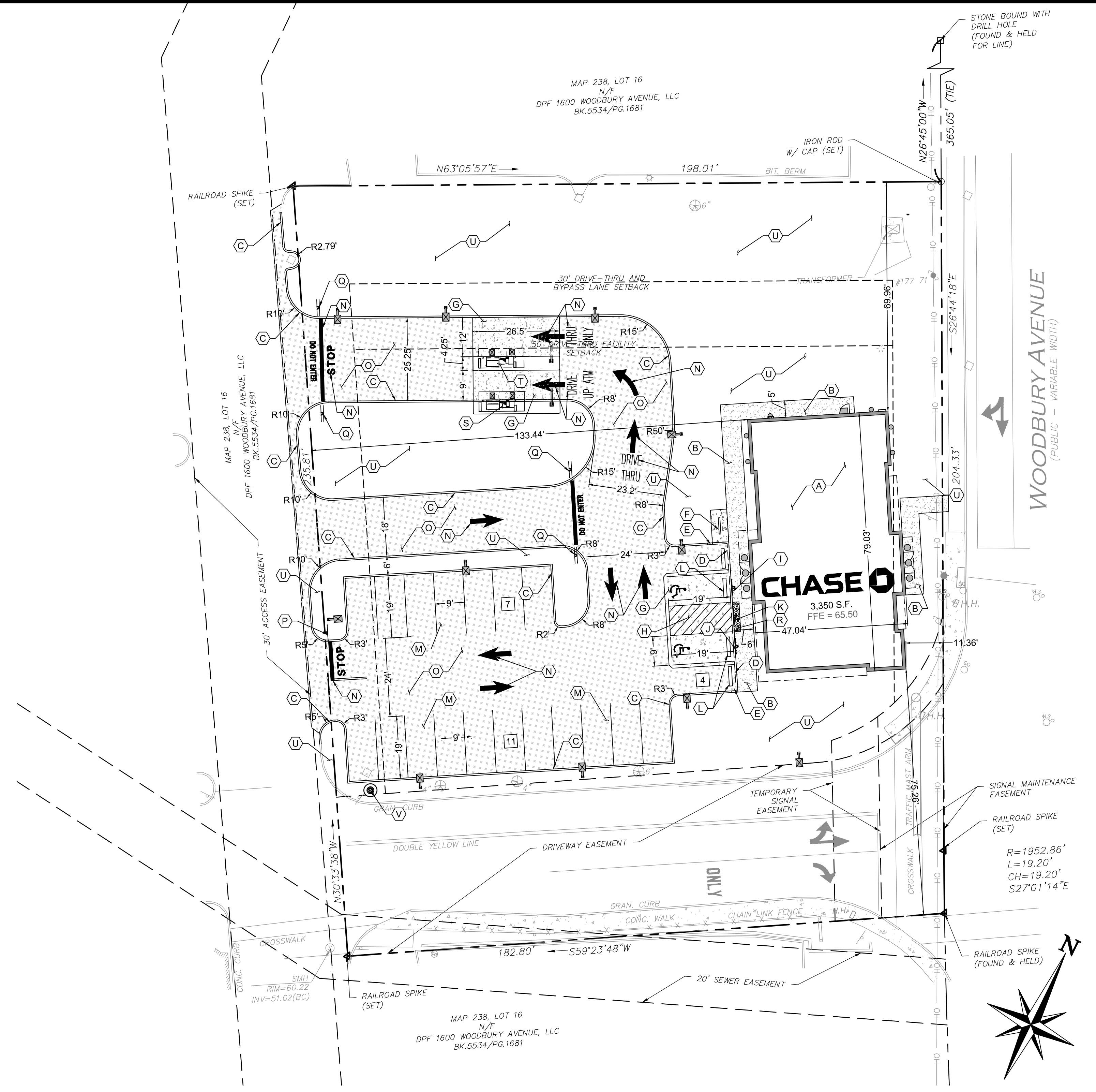
- **Soil Stockpiling** - Topsoil and earth material shall be stockpiled for reuse at the location shown on the Erosion Control Plans. All stockpiles shall be protected using a perimeter dike of silt fence or straw bale sediment barriers to prevent sediment runoff. This applies to all stockpiles remaining in place for more than two weeks. Stockpile side slopes shall not exceed 2 horizontal to 1 vertical (2:1). Temporary seeding or covering of stockpiles shall be completed within two weeks of formation.

VI. CONCLUSION

The implementation of the City of Portsmouth standards for stormwater management design have been presented and achieved through the proposed stormwater management analysis and design. Using stormwater conveyance systems, the runoff throughout the developed site has been designed to meet the necessary requirements. Based upon this analysis, the proposed storm water management system will benefit the existing downstream conveyance system by providing a reduction in impervious area and reducing peak flow stormwater rates to them.

APPENDIX A

OVERALL SITE PLAN



SITE PLAN
SCALE 1" = 20'

GENERAL NOTES:

- THIS DRAWING REFERENCES: 1574 WOODBURY AVENUE TOPOGRAPHIC PLAN OF LAND PREPARED BY ALLEN & MAJOR ASSOCIATES, INC. 100 COMMERCE WAY, SUITE 5 WOBURN, MA 01801 CONTACT: ANDREW RUGGLES TEL: (781) 362-5313 DATED: 08/28/2019
- PROPERTY OWNER: RICHARD P. FUSEGNI 201 KEARSARGE WAY PORTSMOUTH, NH 03801 CONTACT: SCOTT MITCHELL (603) 475-3777
- APPLICANT: J.P. MORGAN CHASE BANK 1450 BRICKELL AVENUE 3RD FLOOR MIAMI, FL 33131 CONTACT: CHRIS FOIT TEL: (786) 473-1769
- 1) SITE ADDRESS: 1574 WOODBURY AVENUE PORTSMOUTH, NH 03801 COUNTY OF ROCKINGHAM
- 2) ZONING DATA: ZONED: G-1 GATEWAY CORRIDOR DISTRICT
- EXISTING USE: RESTAURANT - RUBY TUESDAYS (PERMITTED)
PROPOSED USE: BANK (PERMITTED BY RIGHT)
DRIVE THROUGH (CONDITIONAL USE PERMIT REQUIRED)
- | | REQUIRED | EXISTING | PROPOSED |
|-----------------------------|----------------|--------------|---------------|
| MIN. LOT AREA, SF: | N/A | 43,673 S.F. | NO CHANGE |
| MIN. LOT FRONTAGE, FT: | 50 FT. | 204.32 FT. | NO CHANGE |
| FRONT YARD SETBACK, FT: | 0 FT. - 20 FT. | 89 FT. | 11.36 FT. |
| MIN. SIDE YARD SETBACK, FT: | 10 FT. | 10 FT. | 69.96 FT. |
| MIN. REAR YARD SETBACK, FT: | 15 FT. | 16.4 FT. | 133.44 FT. |
| MAX. HEIGHT, FT: | 40 FT. | 40 FT. | 21.5 FT. |
| MAX. HEIGHT, STORIES: | 3 | 1 | 1 |
| MIN. STREET FACADE HEIGHT: | 18 FT. | ± 20 FT. | 21.5 FT. |
| MIN. OPEN SPACE COVERAGE: | 10% | (7,770 S.F.) | (17,901 S.F.) |
| MAX. BUILDING COVERAGE: | 70% | 10.53% | 7.6% |
| MAX. BUILDING FOOTPRINT: | 10,000 S.F. | 4,600 S.F. | 3,350 S.F. |
- 3) PARKING REQUIREMENTS: \$10.1112.30 OFF-STREET PARKING REQUIREMENTS PER THE CITY OF PORTSMOUTH ZONING ORDINANCE:
FOR PROFESSIONAL, BUSINESS AND FINANCIAL SERVICES:
1 SPACE PER 350 SQUARE FEET OF GROSS FLOOR GROSS AREA
GROSS FLOOR GROSS AREA = 3,350 S.F. (MAIN BUILDING)
CALCULATION: 1 SPACE X (3,350 S.F. / 350 S.F.)
REQUIRED = 10 SPACES
- EXISTING PARKING SPACES: 62 SPACES (INCLUDING 3 ACCESSIBLE SPACES)
PROPOSED PARKING SPACES: 22 SPACES (INCLUDING 2 ACCESSIBLE SPACES)
- PARKING DIMENSIONS
EXISTING: VARIES
REQUIRED: 8'5" X 19'
PROPOSED: 9' X 19'
- 4) ALL EXISTING FEATURES ARE TO REMAIN UNLESS OTHERWISE NOTED.
5) ALL PAVEMENT MARKINGS SHALL BE LONG LIFE EPOXY.
6) PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS BY ALL OF THE PERMITTING AUTHORITIES.
7) ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING AUTHORITY.
8) ALL DIMENSIONS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
9) SOLID WASTE TO BE DISPOSED OF BY CONTRACTOR IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
10) ALL EXCAVATED UNSUITABLE MATERIAL MUST BE TRANSPORTED TO AN APPROVED DISPOSAL LOCATION. CONTRACTOR IS RESPONSIBLE FOR ALL SHORING REQUIRED DURING EXCAVATION AND SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT OSHA STANDARDS, AS WELL AS ADDITIONAL PROVISIONS TO ASSURE STABILITY OF CONTIGUOUS STRUCTURES, AS FIELD CONDITIONS DICTATE.

SITE KEY NOTES:

- A. PROPOSED 3,350 S.F. JPMORGAN CHASE BANK BUILDING. REFER TO ARCHITECTURAL PLANS FOR DETAILS.
B. PROPOSED CONCRETE SIDEWALK. REFER TO CONSTRUCTION DETAILS SHEET.
C. PROPOSED CONCRETE CURB. REFER TO CONSTRUCTION DETAILS SHEET.
D. PROPOSED DEPRESSED CONCRETE CURB. REFER TO CONSTRUCTION DETAILS SHEET.
E. PROPOSED TRANSITION CURB SECTION. REFER TO CONSTRUCTION DETAILS SHEET.
F. PROPOSED BIKE RACK ON CONCRETE PAD. REFER TO CONSTRUCTION DETAILS SHEET.
G. PROPOSED CONCRETE PAD. REFER TO CONSTRUCTION DETAILS SHEET.
H. PROPOSED 9' X 19' ACCESSIBLE PARKING SPACE AND AISLE WITH SYMBOLS OF ACCESSIBILITY. REFER TO CONSTRUCTION DETAILS SHEET.
I. PROPOSED VAN ACCESSIBLE PARKING SIGN. REFER TO CONSTRUCTION DETAILS SHEET.
J. PROPOSED ACCESSIBLE PARKING SIGN. REFER TO CONSTRUCTION DETAILS SHEET.
K. PROPOSED NO PARKING ANYTIME SIGN. REFER TO CONSTRUCTION DETAILS SHEET.
L. PROPOSED WHEEL STOP. REFER TO CONSTRUCTION DETAILS SHEET.
M. PROPOSED 9' X 19' STANDARD PARKING SPACE. REFER TO CONSTRUCTION DETAILS SHEET/
N. PROPOSED SITE MARKINGS. REFER TO CONSTRUCTION DETAILS SHEET/
O. PROPOSED ASPHALT PAVEMENT. REFER TO CONSTRUCTION DETAILS SHEET.
P. PROPOSED STOP SIGN. REFER TO CONSTRUCTION DETAILS SHEET.
Q. PROPOSED STOP & DO NOT ENTER SIGN. REFER TO CONSTRUCTION DETAILS SHEET.
R. PROPOSED DETECTABLE WARNING SURFACE. REFER TO CONSTRUCTION DETAILS SHEET.
S. PROPOSED DRIVE-UP SIGNATURE ATM CANOPY. REFER TO CONSTRUCTION DETAILS SHEET.
T. PROPOSED "FUTURE" DRIVE-UP SIGNATURE ATM CANOPY. REFER TO CONSTRUCTION DETAILS SHEET.
U. PROPOSED LANDSCAPE AREA. REFER TO LANDSCAPE PLAN FOR DETAILS.
V. PROPOSED CDS WATER QUALITY UNIT BY CONTECH. SEE CONSTRUCTION DETAILS.

SITE LEGEND

	EXISTING PROPERTY BOUNDARY LINE
	EXISTING ADJOINING PROPERTY LINE
	EXISTING ROAD CENTERLINE
	PROPOSED ROAD CENTERLINE
	PROPOSED DITCH CENTERLINE
	PROPOSED LIMITS OF BMP / DETENTION
	PROPOSED SAWCUT LINE
	EXISTING CURB
	PROPOSED CURB
	PROPOSED MOUNTABLE CURB
	PROPOSED BUILDING
	PROPOSED ASPHALT
	PROPOSED CONCRETE
	EXISTING SANITARY STRUCTURES
	EXISTING WATER STRUCTURES
	EXISTING OVERHEAD WIRES
	PROPOSED PARKING COUNT

ALERT TO CONTRACTOR:
PRIOR TO THE CONSTRUCTION OF OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, WATER MAIN OR ANY OF THE DRY UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM ENGINEER AND THE OWNER OF ANY CONFLICT OR REQUIRED DEVIATIONS FROM THE PLAN. NOTIFICATION SHALL BE MADE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. ENGINEER AND OWNER SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.

CORE STATES INC.
12700 HALCREST ROAD
DALLAS, TX 75220
(214) 377-5660
www.core-eng.com

DOCUMENTS PREPARED BY CORE STATES, INC. INCLUDING THIS DOCUMENT ARE TO BE USED ONLY FOR THE SPECIFIC PROJECT AND SPECIFIC USE FOR WHICH THEY WERE INTENDED. ANY EXTENSION OF USE TO ANY OTHER PROJECTS, BY OWNER OR BY ANY OTHER PARTY, WITHOUT THE EXPRESSED WRITTEN CONSENT OF CORE STATES, INC. IS DONE UNLAWFULLY AND AT THE USER'S OWN RISK. IT IS USED IN A WAY OTHER THAN THAT SPECIFICALLY INTENDED. USER WILL HOLD CORE STATES, INC. HARMLESS FROM ALL CLAIMS AND LOSSES.

CLIENT
CHASE

811
Know what's below. Call before you dig.

REV	DATE	COMMENT	BY
1	4/6/2020	RESUBMISSION TO TOWNSHIP	KGF

DOCUMENT
SITE PLAN APPROVAL FOR CHASE BANK

SITE LOCATION
1574 WOODBURY AVENUE, PORTSMOUTH, NH 03801

ENGINEER SEAL
THOMAS C. PICKERING, P.E.
PEN. 0010218

CORE STATES, INC. NH STATE CERTIFICATE OF AUTHORIZATION #01208

SHEET TITLE
SITE PLAN

JOB #:	JPM 27086
DATE:	04/03/2020
SCALE:	AS NOTED
DRAWN BY:	DJR
CHECKED BY:	AR

SHEET NO.
C-2

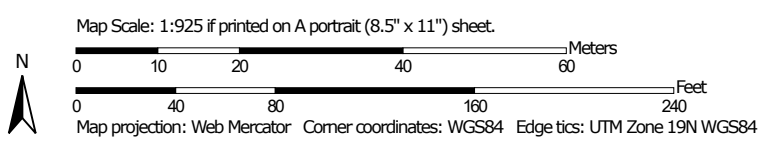
APPENDIX B

WEB SOIL SURVEY MAP

Soil Map—Rockingham County, New Hampshire
(Chase Bank Portsmouth, NH Soils Map)



Soil Map may not be valid at this scale.




MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Rockingham County, New Hampshire

Survey Area Data: Version 21, Sep 16, 2019

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Dec 31, 2009—Sep 9, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

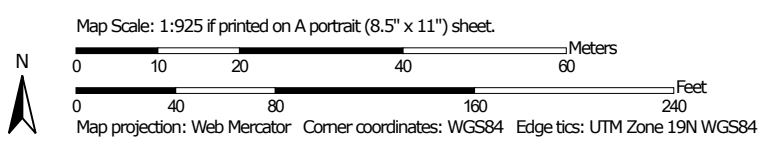
Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
140B	Chatfield-Hollis-Canton complex, 0 to 8 percent slopes, rocky	2.1	99.8%
699	Urban land	0.0	0.2%
Totals for Area of Interest		2.1	100.0%

Hydrologic Soil Group—Rockingham County, New Hampshire
(Chase Bank Portsmouth, NH Soil Group)



Soil Map may not be valid at this scale.



MAP LEGEND

Area of Interest (AOI)









 Area of Interest (AOI)

Soils

Soil Rating Polygons





 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Soil Rating Lines


 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Soil Rating Points






 A
 A/D
 B
 B/D

 C
 C/D
 D
 Not rated or not available

Water Features

 Streams and Canals

Transportation

 Rails
 Interstate Highways
 US Routes
 Major Roads
 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Rockingham County, New Hampshire
 Survey Area Data: Version 21, Sep 16, 2019

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Dec 31, 2009—Sep 9, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
140B	Chatfield-Hollis-Canton complex, 0 to 8 percent slopes, rocky	B	2.1	99.8%
699	Urban land		0.0	0.2%
Totals for Area of Interest			2.1	100.0%

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

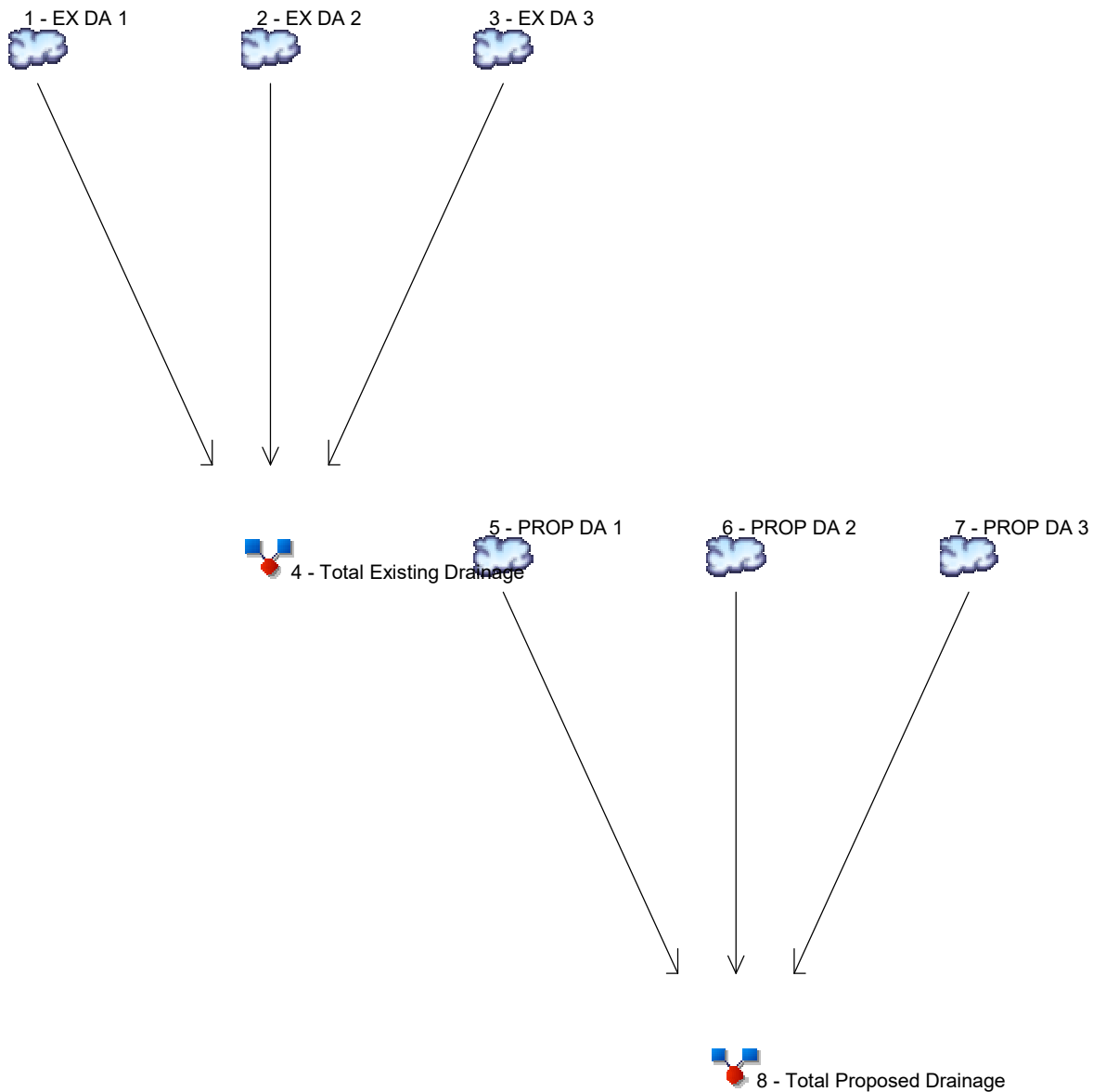
Tie-break Rule: Higher

APPENDIX C

HYDRAULIC CALCULATIONS REPORT

Watershed Model Schematic

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020



Legend

Hyd.	Origin	Description
1	SCS Runoff	EX DA 1
2	SCS Runoff	EX DA 2
3	SCS Runoff	EX DA 3
4	Combine	Total Existing Drainage
5	SCS Runoff	PROP DA 1
6	SCS Runoff	PROP DA 2
7	SCS Runoff	PROP DA 3
8	Combine	Total Proposed Drainage

Hydrograph Return Period Recap

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

Hyd. No.	Hydrograph type (origin)	Inflow hyd(s)	Peak Outflow (cfs)								Hydrograph Description
			1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr	
1	SCS Runoff	-----	-----	2.103	-----	-----	3.592	4.514	5.184	-----	EX DA 1
2	SCS Runoff	-----	-----	0.053	-----	-----	0.119	0.163	0.195	-----	EX DA 2
3	SCS Runoff	-----	-----	0.047	-----	-----	0.117	0.164	0.199	-----	EX DA 3
4	Combine	1, 2, 3	-----	2.203	-----	-----	3.828	4.841	5.578	-----	Total Existing Drainage
5	SCS Runoff	-----	-----	1.535	-----	-----	2.984	3.900	4.567	-----	PROP DA 1
6	SCS Runoff	-----	-----	0.042	-----	-----	0.121	0.177	0.220	-----	PROP DA 2
7	SCS Runoff	-----	-----	0.060	-----	-----	0.146	0.206	0.250	-----	PROP DA 3
8	Combine	5, 6, 7	-----	1.637	-----	-----	3.252	4.283	5.037	-----	Total Proposed Drainage

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

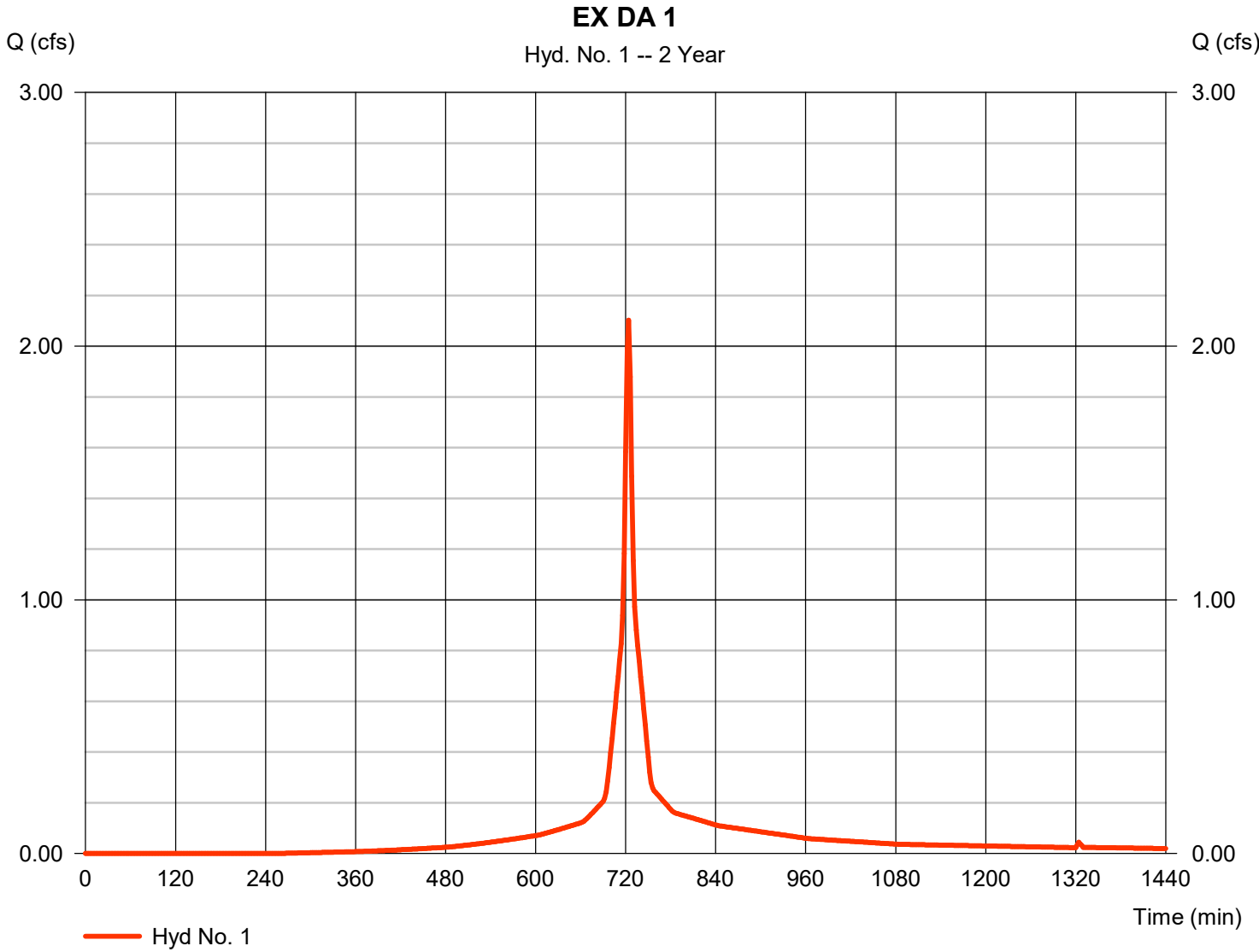
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	2.103	2	724	6,537	----	----	----	EX DA 1
2	SCS Runoff	0.053	2	724	162	----	----	----	EX DA 2
3	SCS Runoff	0.047	2	724	148	----	----	----	EX DA 3
4	Combine	2.203	2	724	6,848	1, 2, 3	----	----	Total Existing Drainage
5	SCS Runoff	1.535	2	724	4,590	----	----	----	PROP DA 1
6	SCS Runoff	0.042	2	724	141	----	----	----	PROP DA 2
7	SCS Runoff	0.060	2	724	186	----	----	----	PROP DA 3
8	Combine	1.637	2	724	4,918	5, 6, 7	----	----	Total Proposed Drainage
<p>P:\J.P. Morgan Chase\Portsmouth, NH (1574) Rebuild\Portsmouth, NH\VP# 38100P31267a, 04/12/2020\CIVIL\Engineering\Stormwater</p>									

Hydrograph Report

Hyd. No. 1

EX DA 1

Hydrograph type	= SCS Runoff	Peak discharge	= 2.103 cfs
Storm frequency	= 2 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 6,537 cuft
Drainage area	= 0.750 ac	Curve number	= 93
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 3.32 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

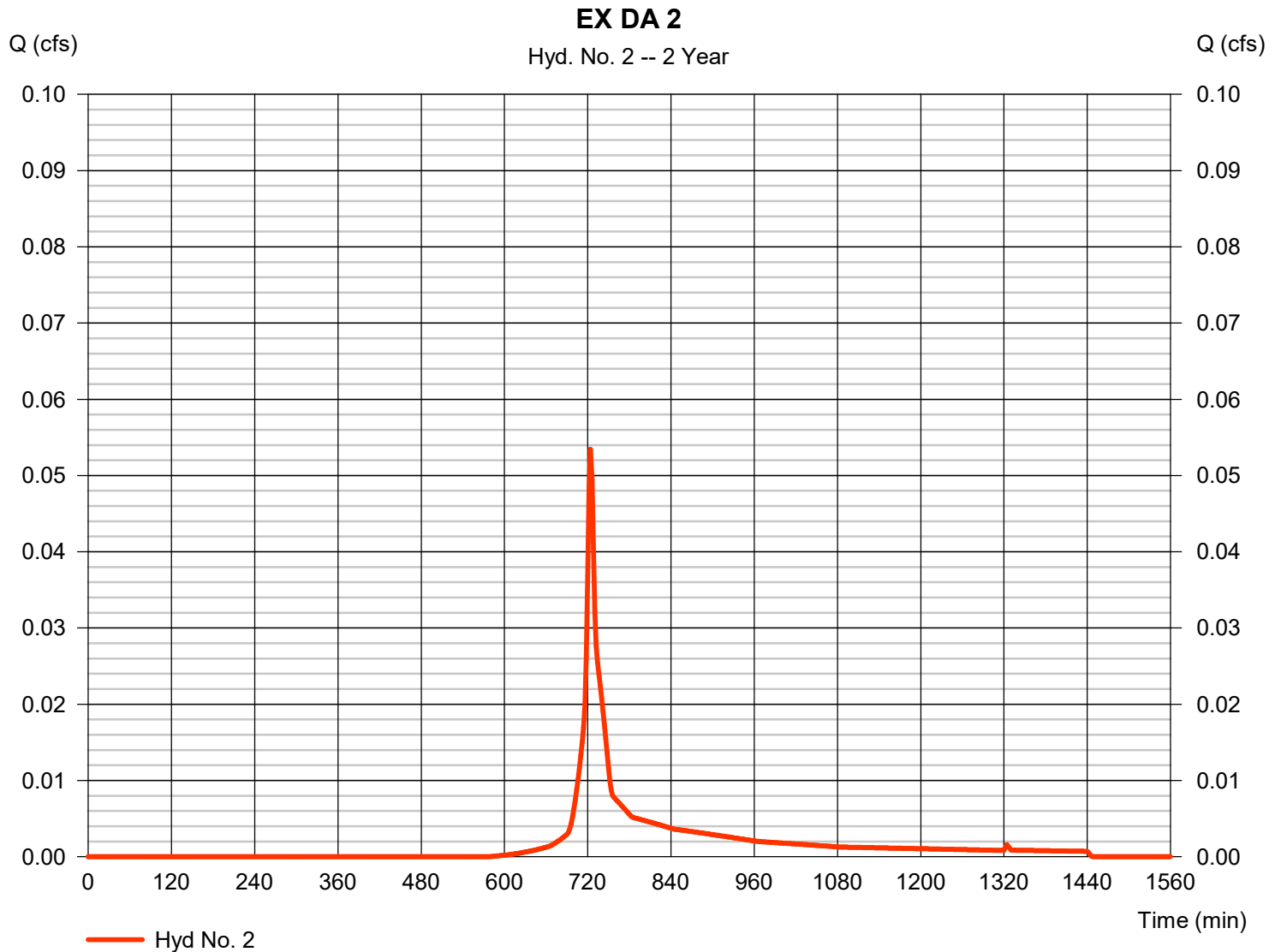
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

Monday, 04 / 6 / 2020

Hyd. No. 2

EX DA 2

Hydrograph type	= SCS Runoff	Peak discharge	= 0.053 cfs
Storm frequency	= 2 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 162 cuft
Drainage area	= 0.035 ac	Curve number	= 78
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 3.32 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

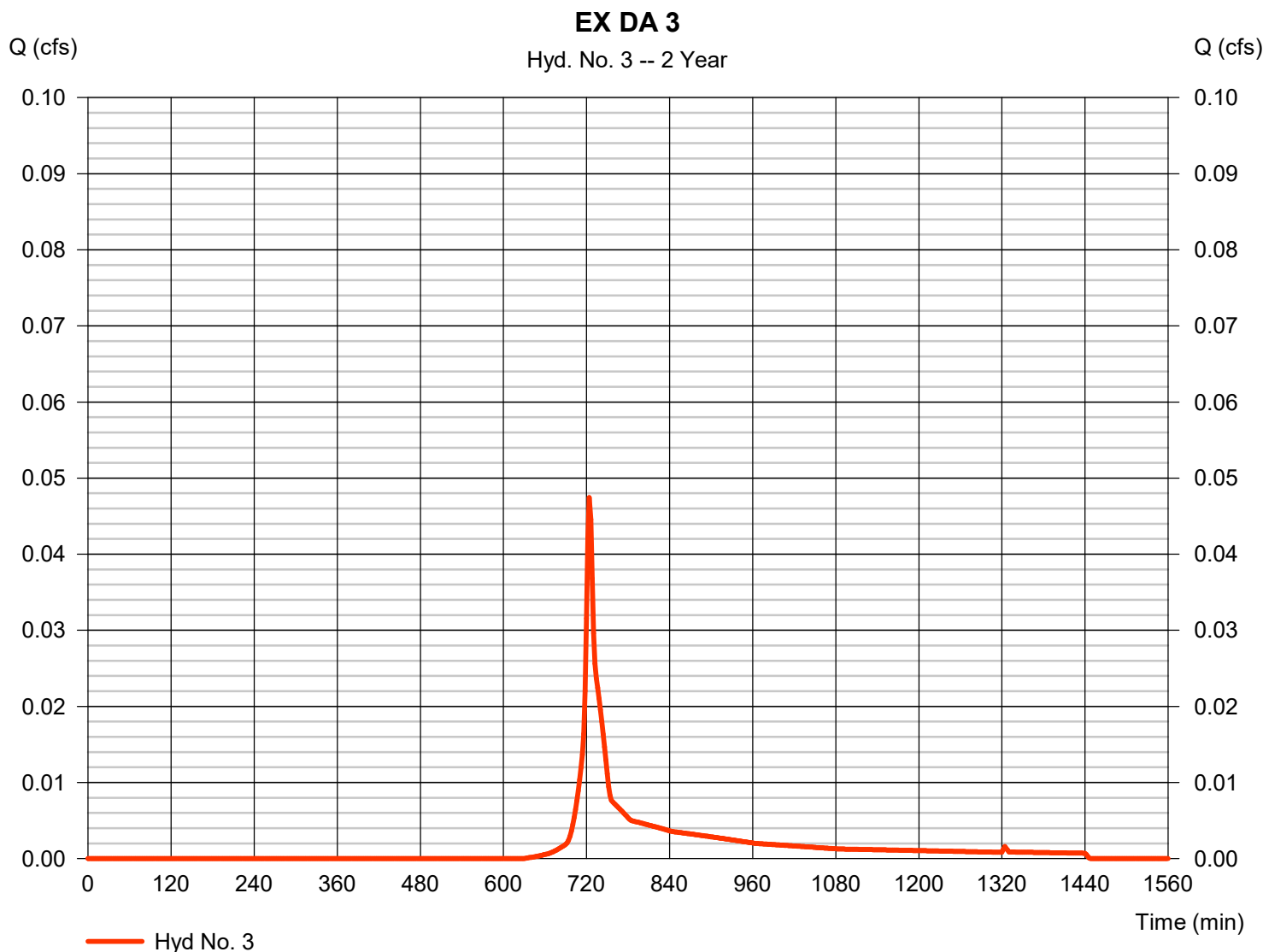
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

Monday, 04 / 6 / 2020

Hyd. No. 3

EX DA 3

Hydrograph type	= SCS Runoff	Peak discharge	= 0.047 cfs
Storm frequency	= 2 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 148 cuft
Drainage area	= 0.039 ac	Curve number	= 74
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 3.32 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

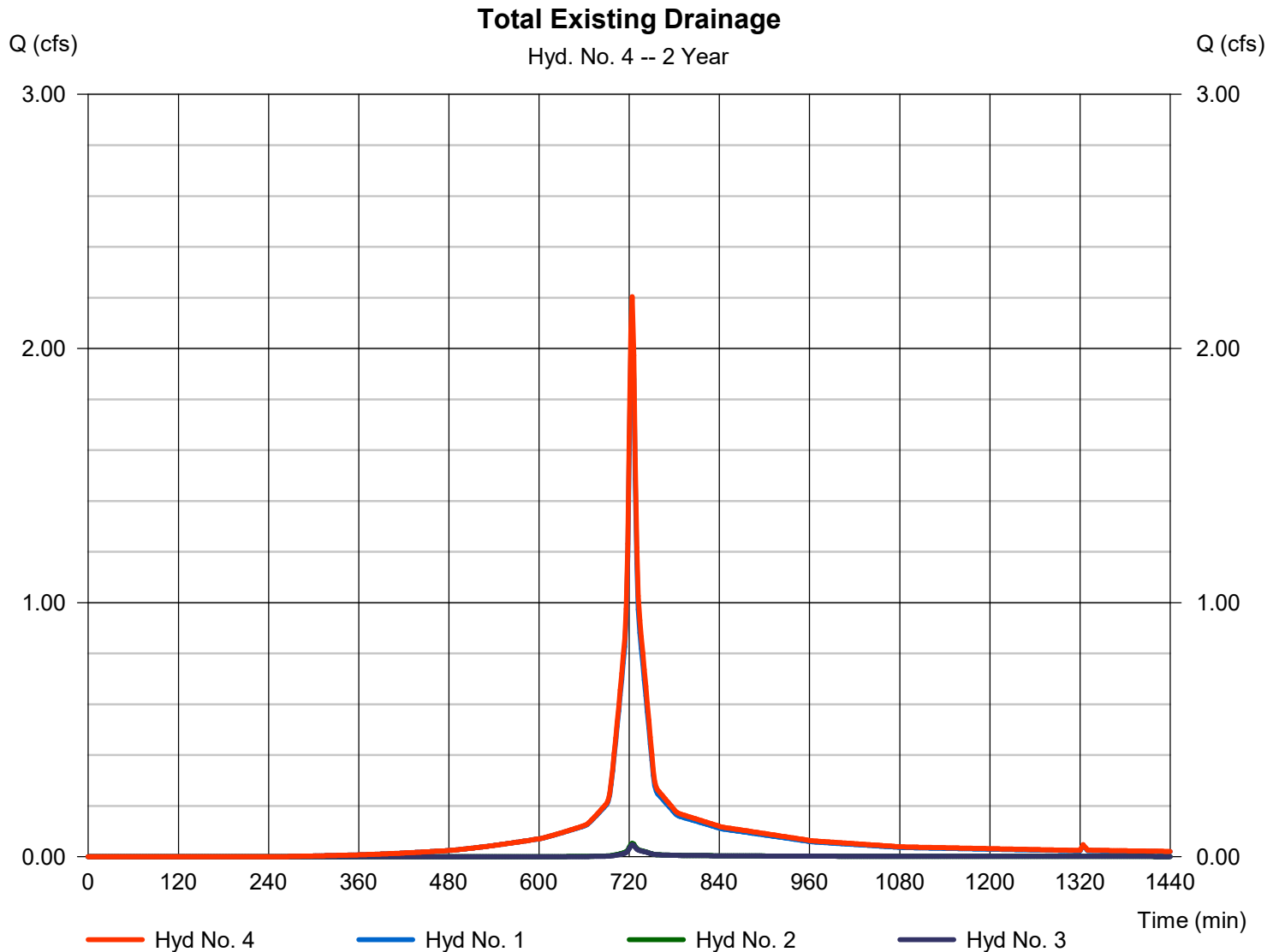
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

Monday, 04 / 6 / 2020

Hyd. No. 4

Total Existing Drainage

Hydrograph type	= Combine	Peak discharge	= 2.203 cfs
Storm frequency	= 2 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 6,848 cuft
Inflow hyds.	= 1, 2, 3	Contrib. drain. area	= 0.824 ac

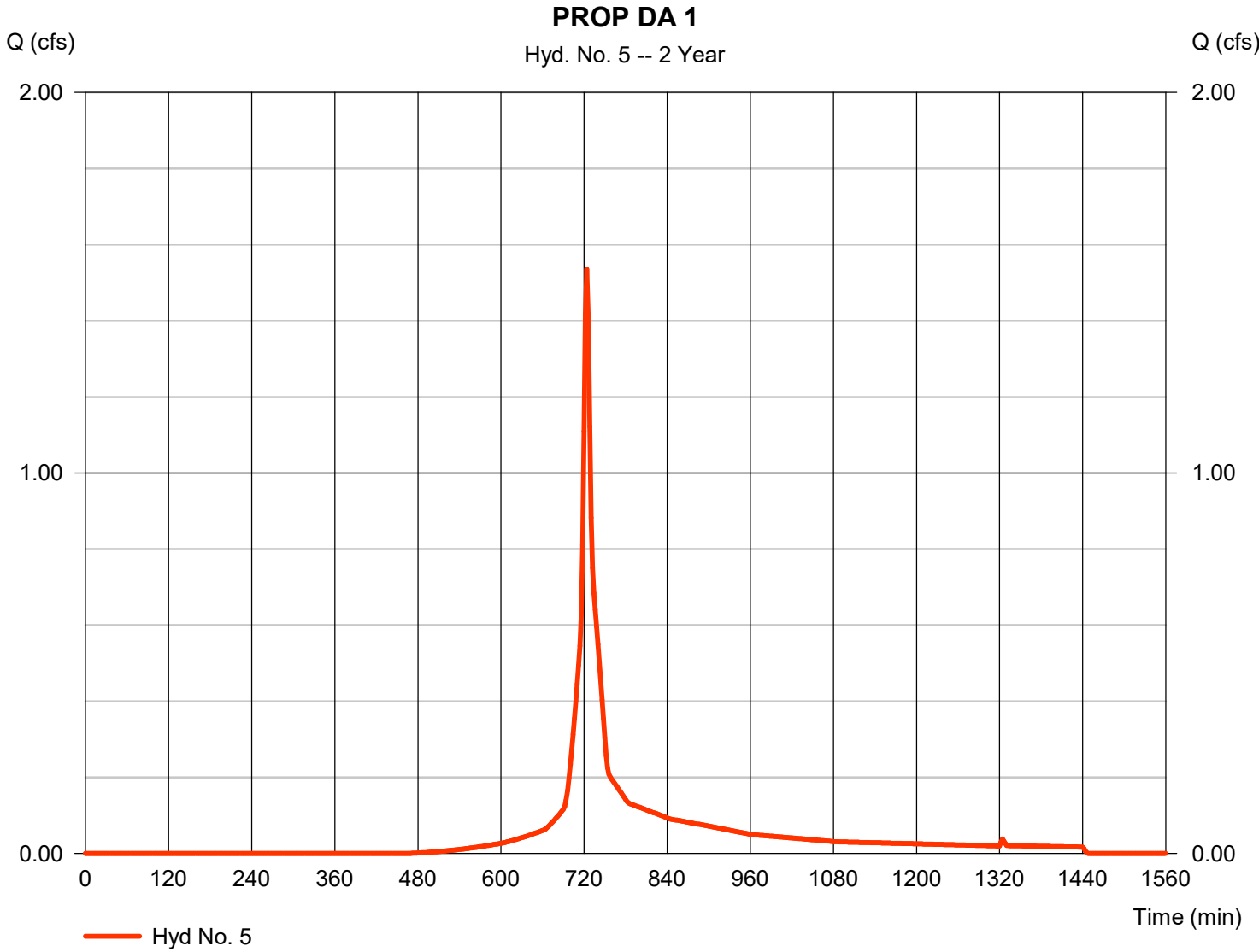


Hydrograph Report

Hyd. No. 5

PROP DA 1

Hydrograph type	= SCS Runoff	Peak discharge	= 1.535 cfs
Storm frequency	= 2 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 4,590 cuft
Drainage area	= 0.725 ac	Curve number	= 85
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 3.32 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484

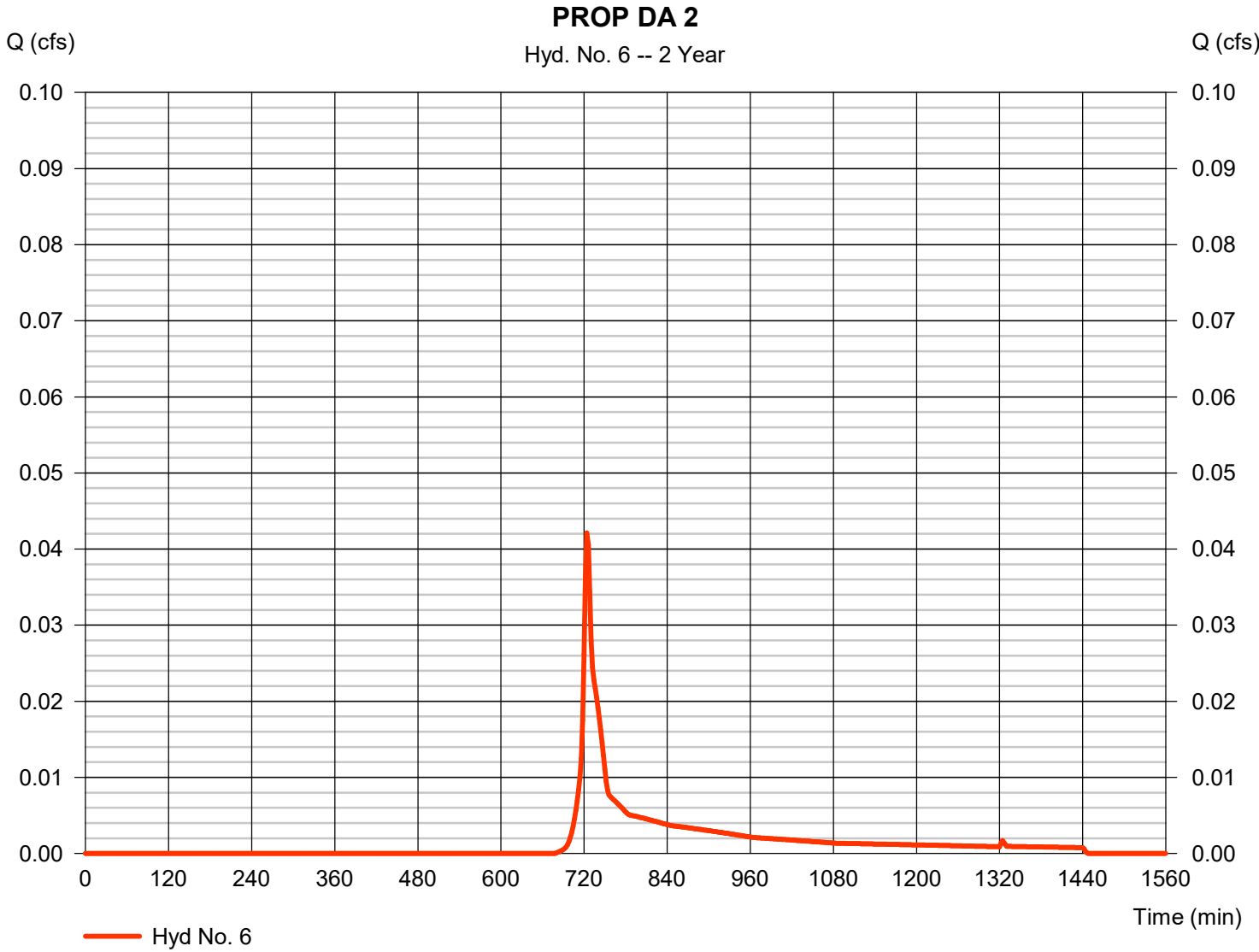


Hydrograph Report

Hyd. No. 6

PROP DA 2

Hydrograph type	= SCS Runoff	Peak discharge	= 0.042 cfs
Storm frequency	= 2 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 141 cuft
Drainage area	= 0.049 ac	Curve number	= 69
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 3.32 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

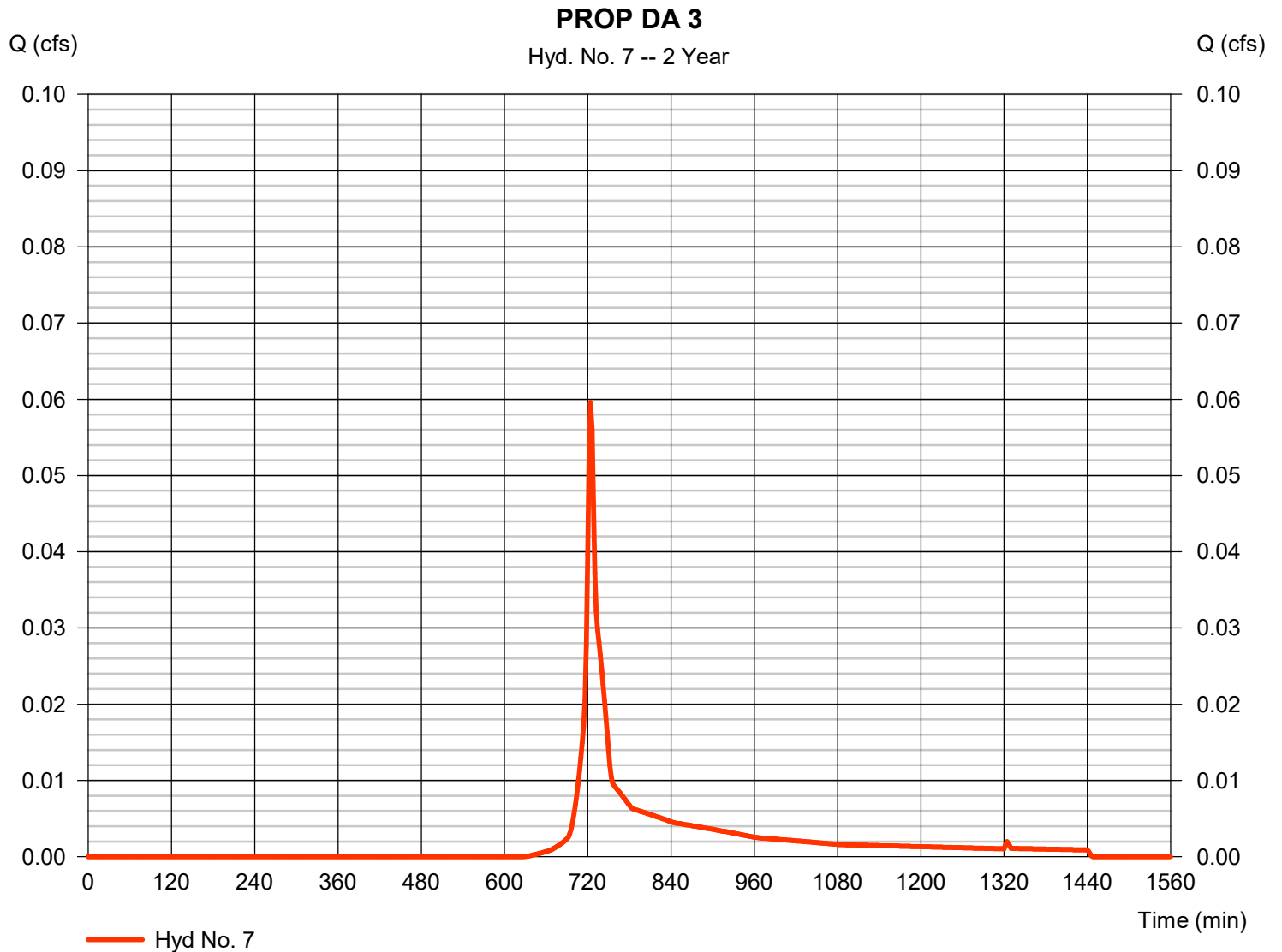
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

Monday, 04 / 6 / 2020

Hyd. No. 7

PROP DA 3

Hydrograph type	= SCS Runoff	Peak discharge	= 0.060 cfs
Storm frequency	= 2 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 186 cuft
Drainage area	= 0.049 ac	Curve number	= 74
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 3.32 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484

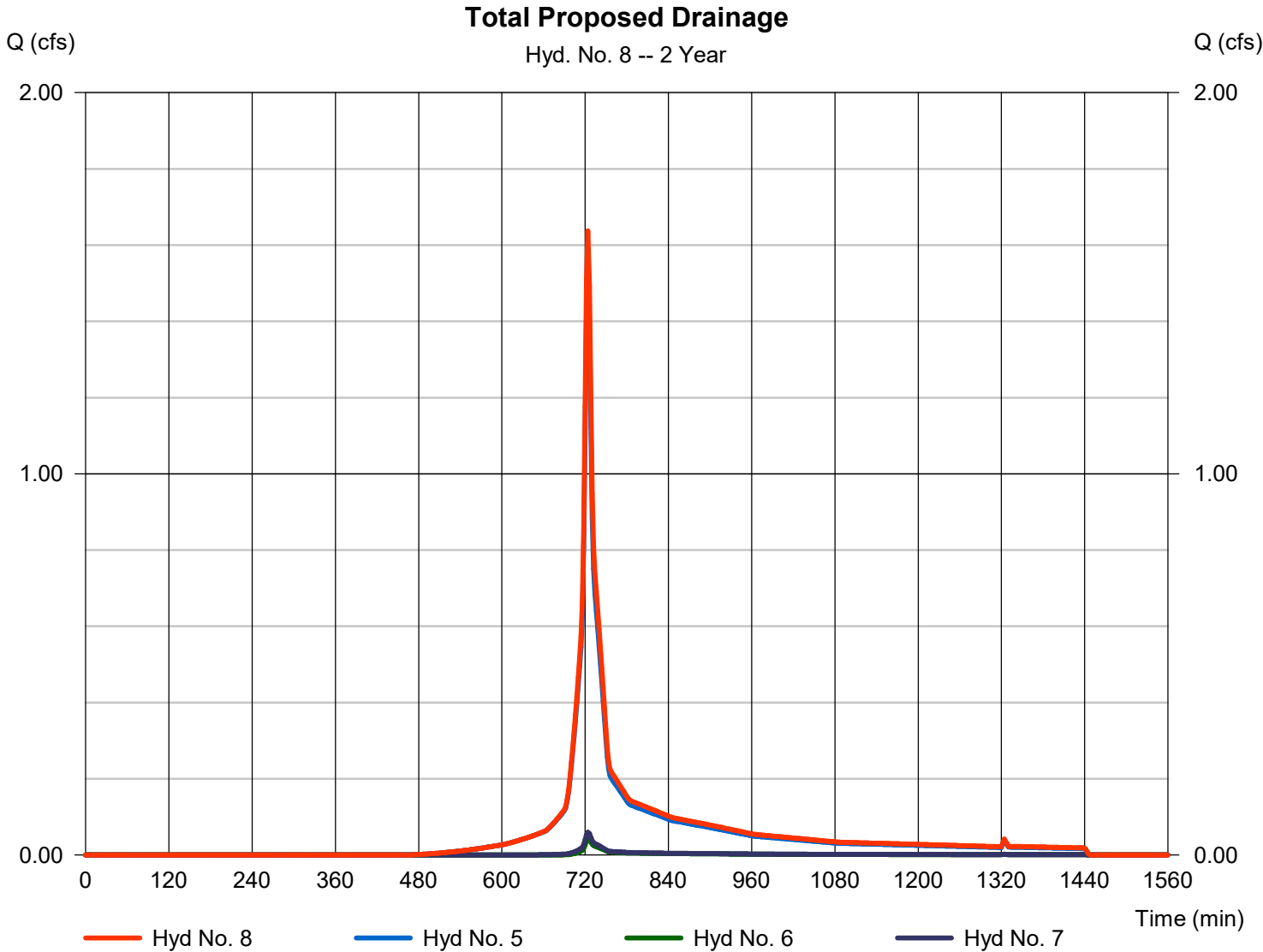


Hydrograph Report

Hyd. No. 8

Total Proposed Drainage

Hydrograph type	= Combine	Peak discharge	= 1.637 cfs
Storm frequency	= 2 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 4,918 cuft
Inflow hyds.	= 5, 6, 7	Contrib. drain. area	= 0.823 ac



Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	3.592	2	724	11,542	----	----	----	EX DA 1
2	SCS Runoff	0.119	2	724	357	----	----	----	EX DA 2
3	SCS Runoff	0.117	2	724	349	----	----	----	EX DA 3
4	Combine	3.828	2	724	12,248	1, 2, 3	----	----	Total Existing Drainage
5	SCS Runoff	2.984	2	724	9,065	----	----	----	PROP DA 1
6	SCS Runoff	0.121	2	724	367	----	----	----	PROP DA 2
7	SCS Runoff	0.146	2	724	439	----	----	----	PROP DA 3
8	Combine	3.252	2	724	9,871	5, 6, 7	----	----	Total Proposed Drainage

Hydrograph Report

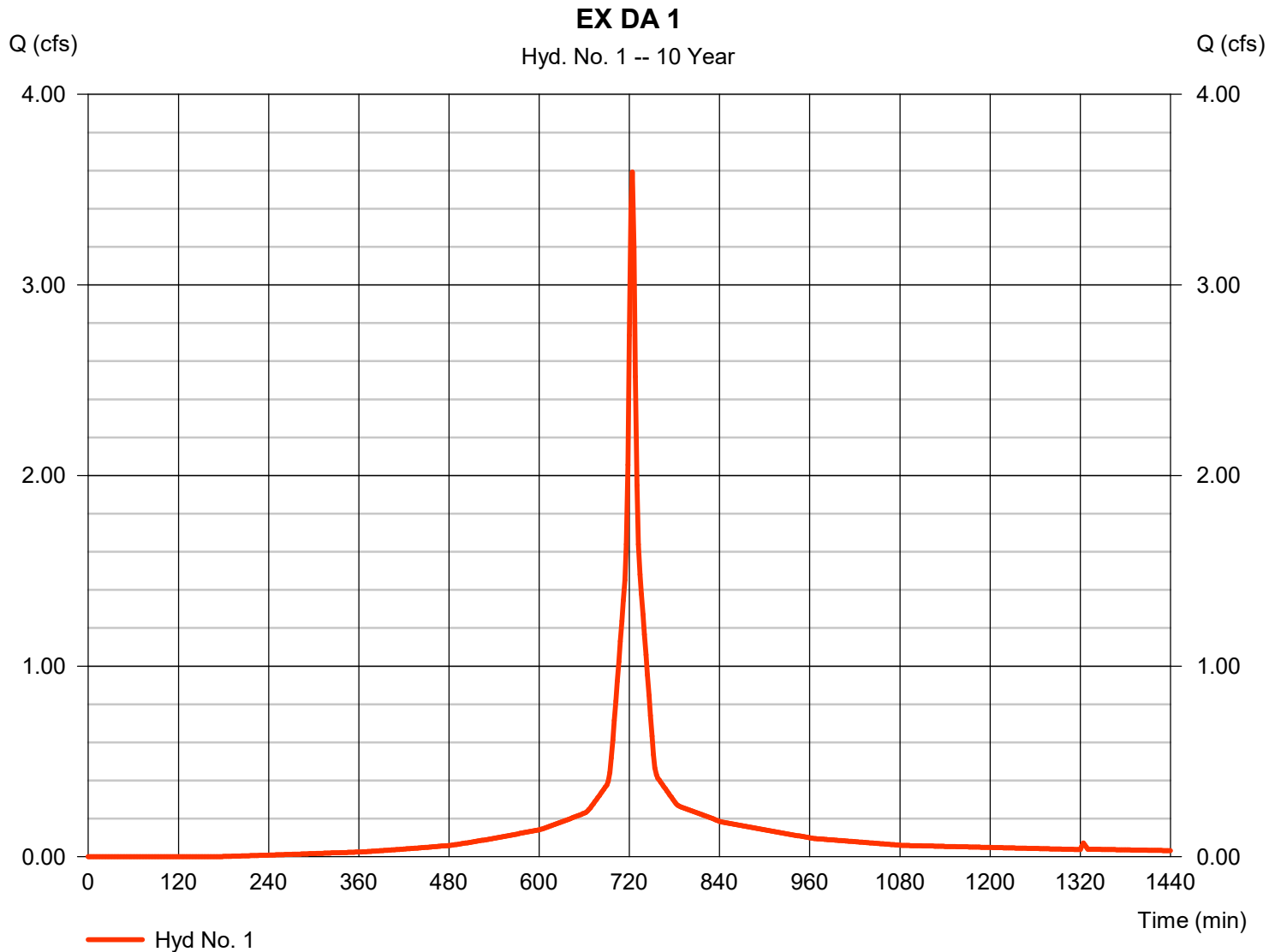
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

Monday, 04 / 6 / 2020

Hyd. No. 1

EX DA 1

Hydrograph type	= SCS Runoff	Peak discharge	= 3.592 cfs
Storm frequency	= 10 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 11,542 cuft
Drainage area	= 0.750 ac	Curve number	= 93
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 5.33 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

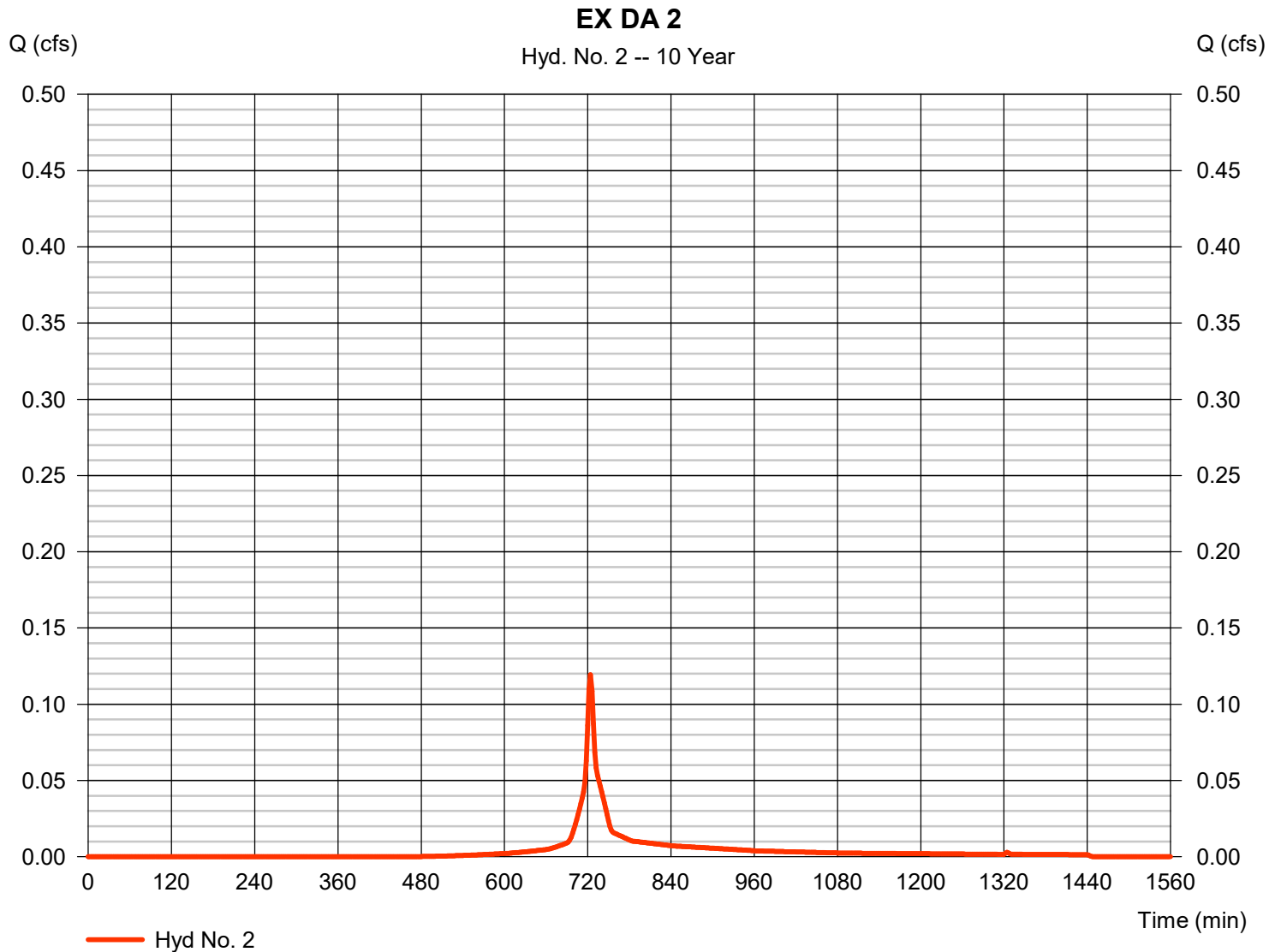
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

Monday, 04 / 6 / 2020

Hyd. No. 2

EX DA 2

Hydrograph type	= SCS Runoff	Peak discharge	= 0.119 cfs
Storm frequency	= 10 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 357 cuft
Drainage area	= 0.035 ac	Curve number	= 78
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 5.33 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

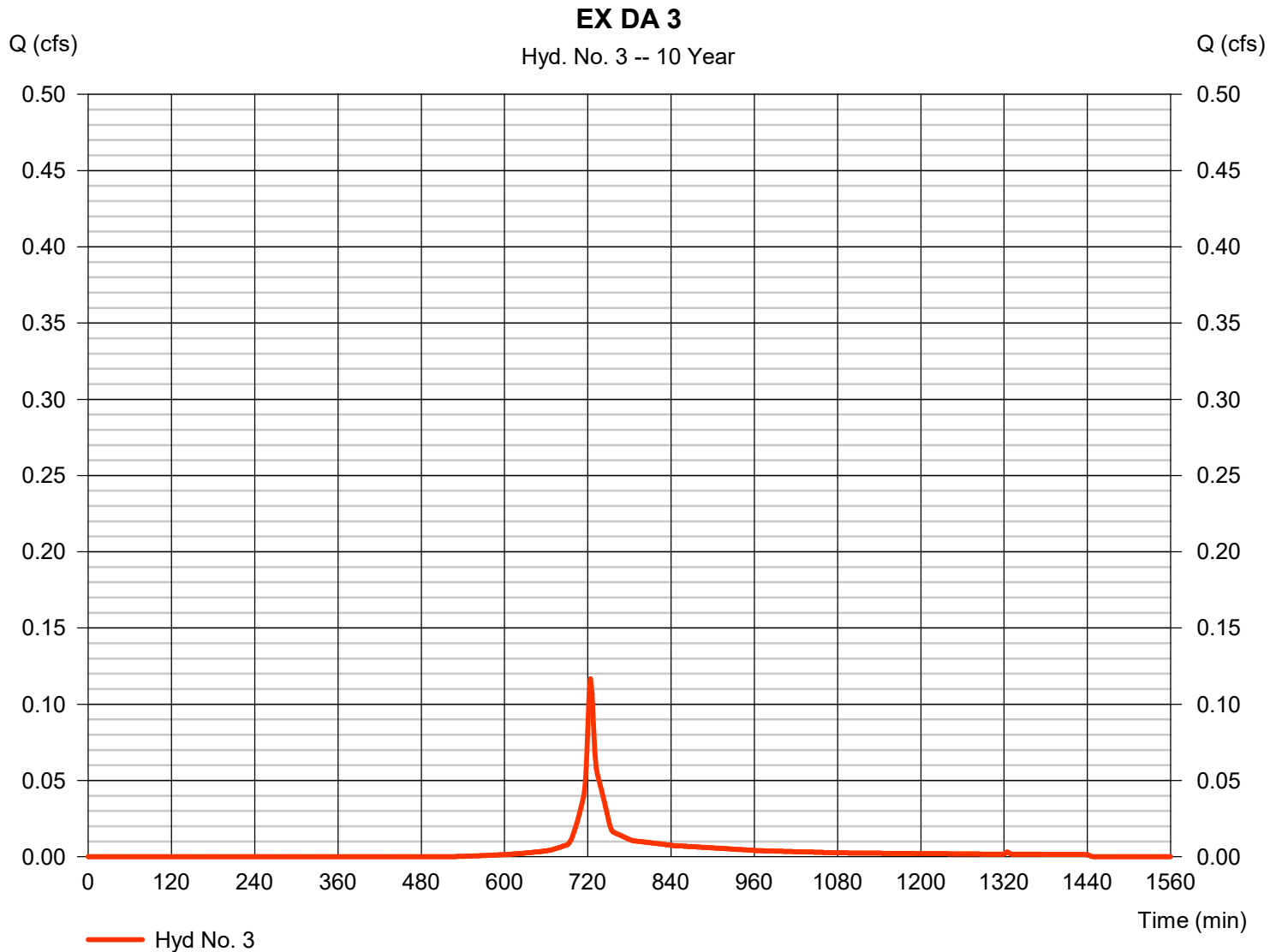
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

Monday, 04 / 6 / 2020

Hyd. No. 3

EX DA 3

Hydrograph type	= SCS Runoff	Peak discharge	= 0.117 cfs
Storm frequency	= 10 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 349 cuft
Drainage area	= 0.039 ac	Curve number	= 74
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 5.33 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

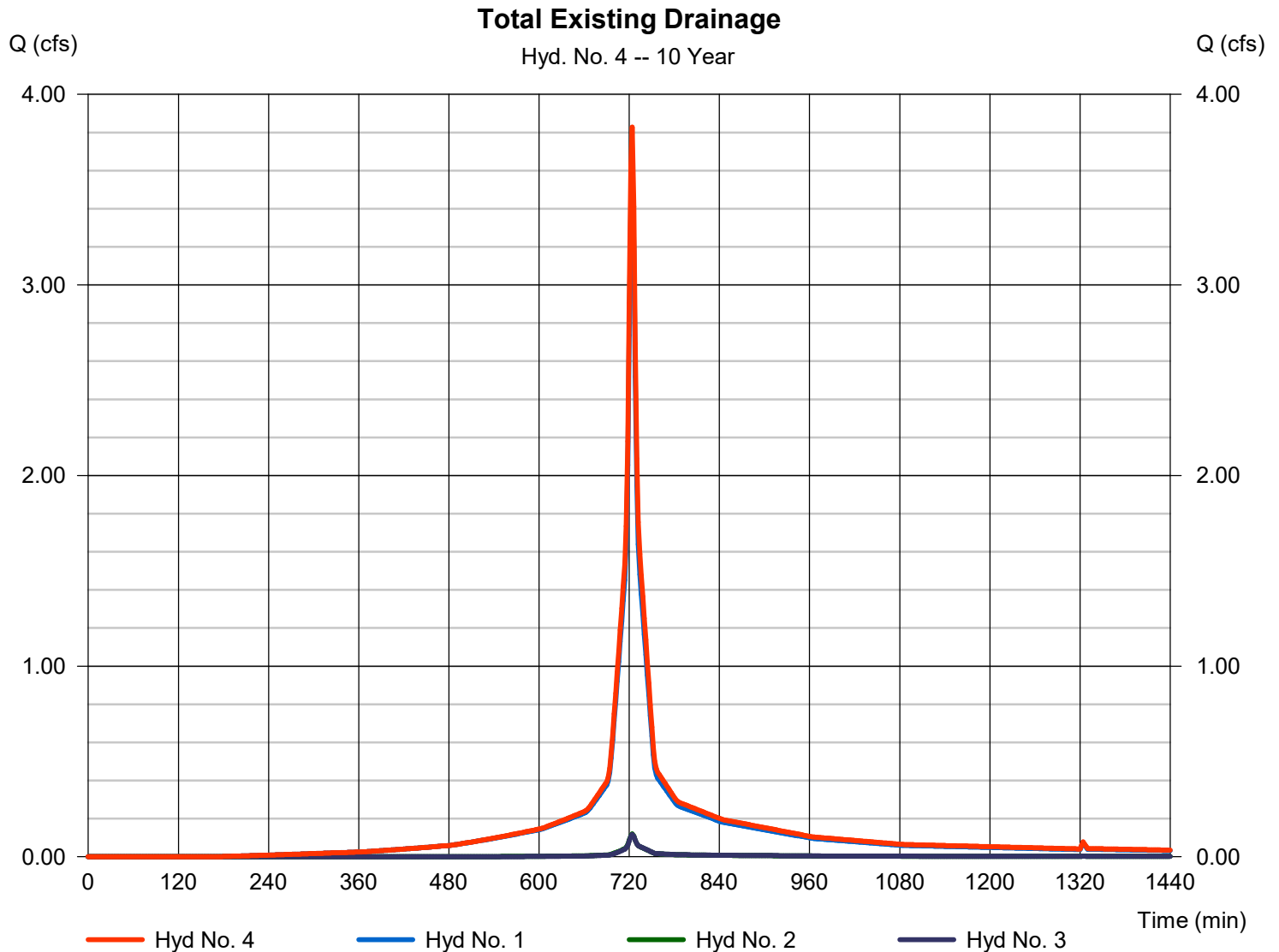
Monday, 04 / 6 / 2020

Hyd. No. 4

Total Existing Drainage

Hydrograph type = Combine
Storm frequency = 10 yrs
Time interval = 2 min
Inflow hyds. = 1, 2, 3

Peak discharge = 3.828 cfs
Time to peak = 724 min
Hyd. volume = 12,248 cuft
Contrib. drain. area = 0.824 ac



Hydrograph Report

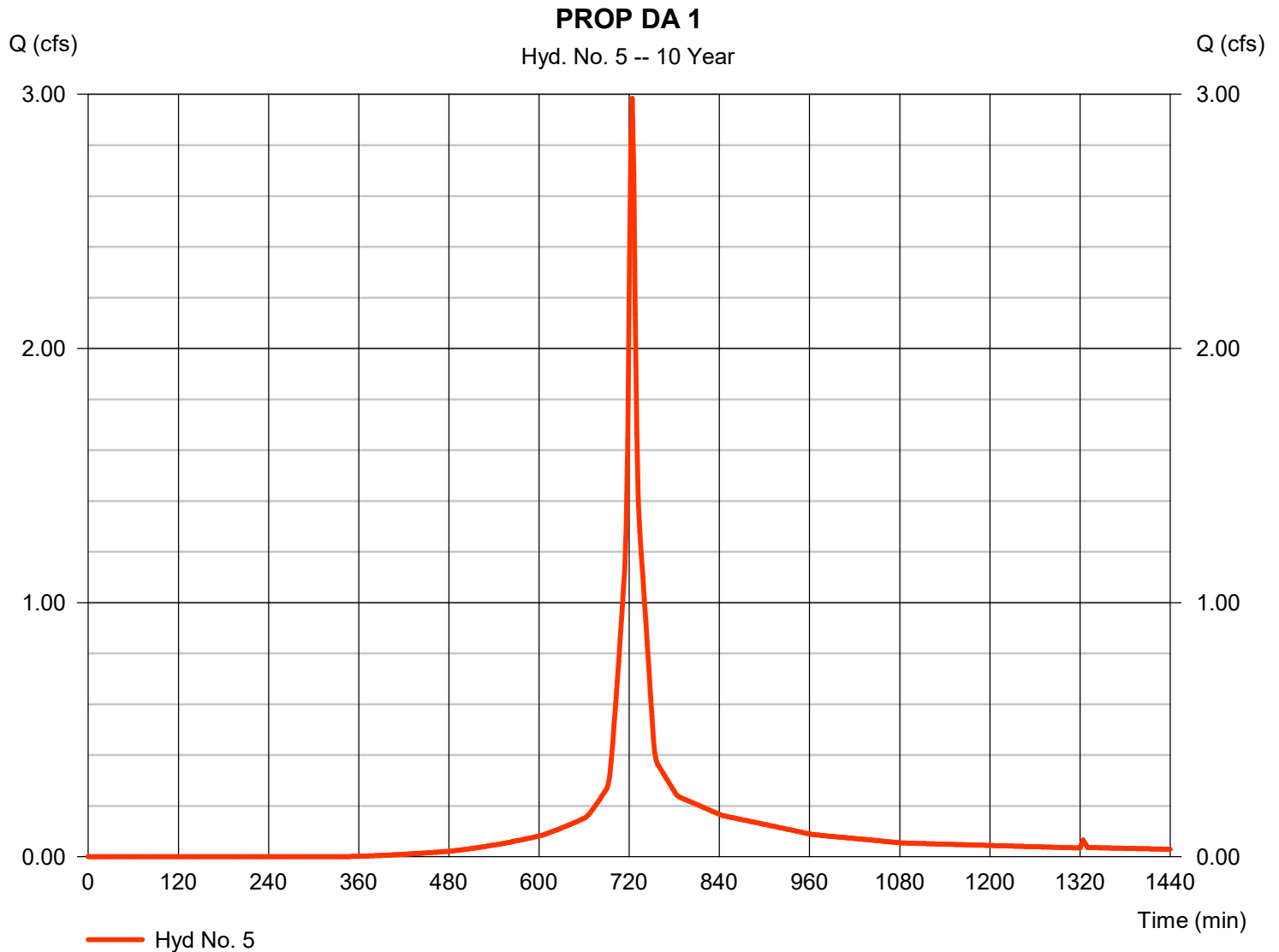
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

Monday, 04 / 6 / 2020

Hyd. No. 5

PROP DA 1

Hydrograph type	= SCS Runoff	Peak discharge	= 2.984 cfs
Storm frequency	= 10 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 9,065 cuft
Drainage area	= 0.725 ac	Curve number	= 85
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 5.33 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

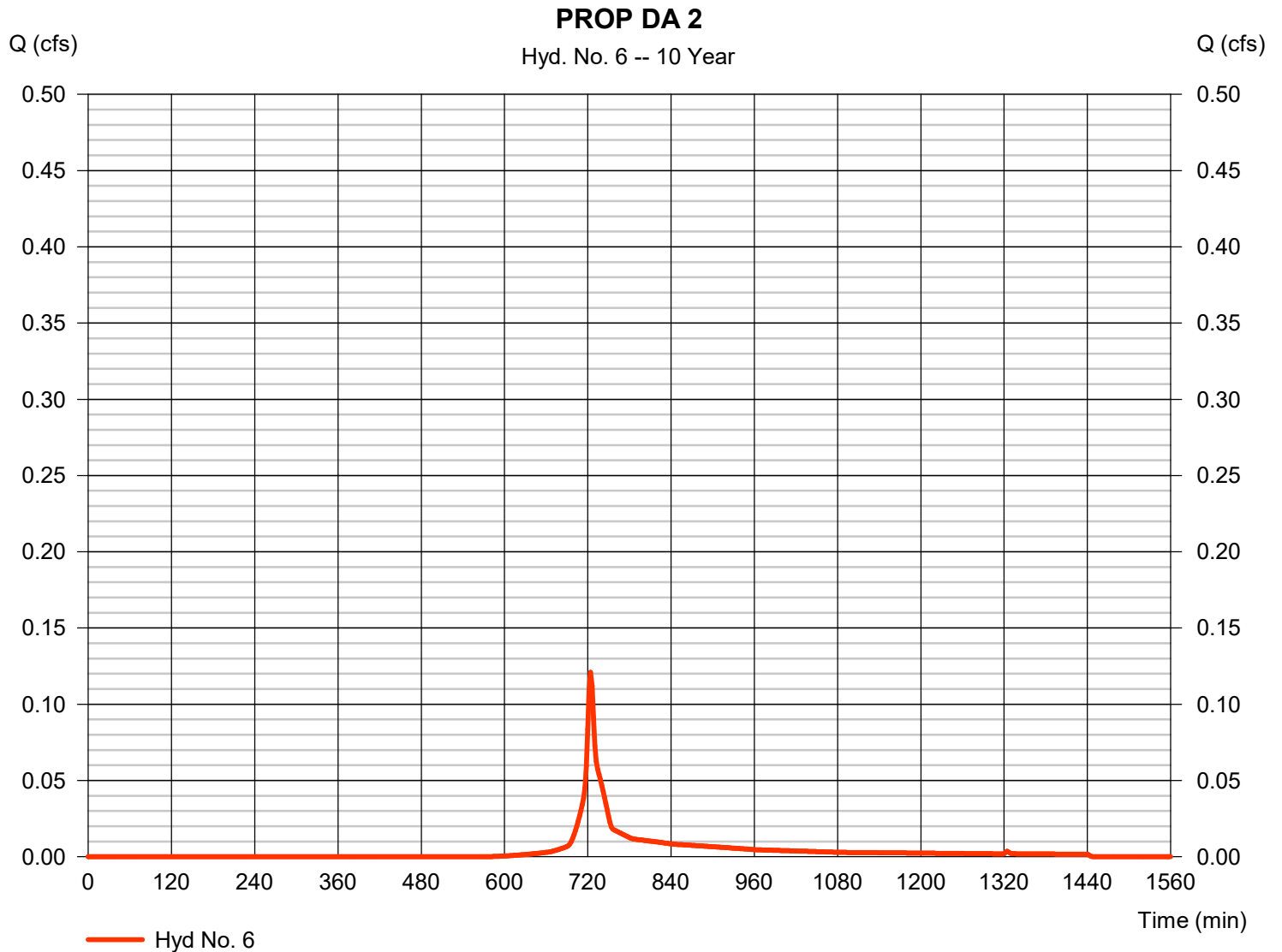
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

Monday, 04 / 6 / 2020

Hyd. No. 6

PROP DA 2

Hydrograph type	= SCS Runoff	Peak discharge	= 0.121 cfs
Storm frequency	= 10 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 367 cuft
Drainage area	= 0.049 ac	Curve number	= 69
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 5.33 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

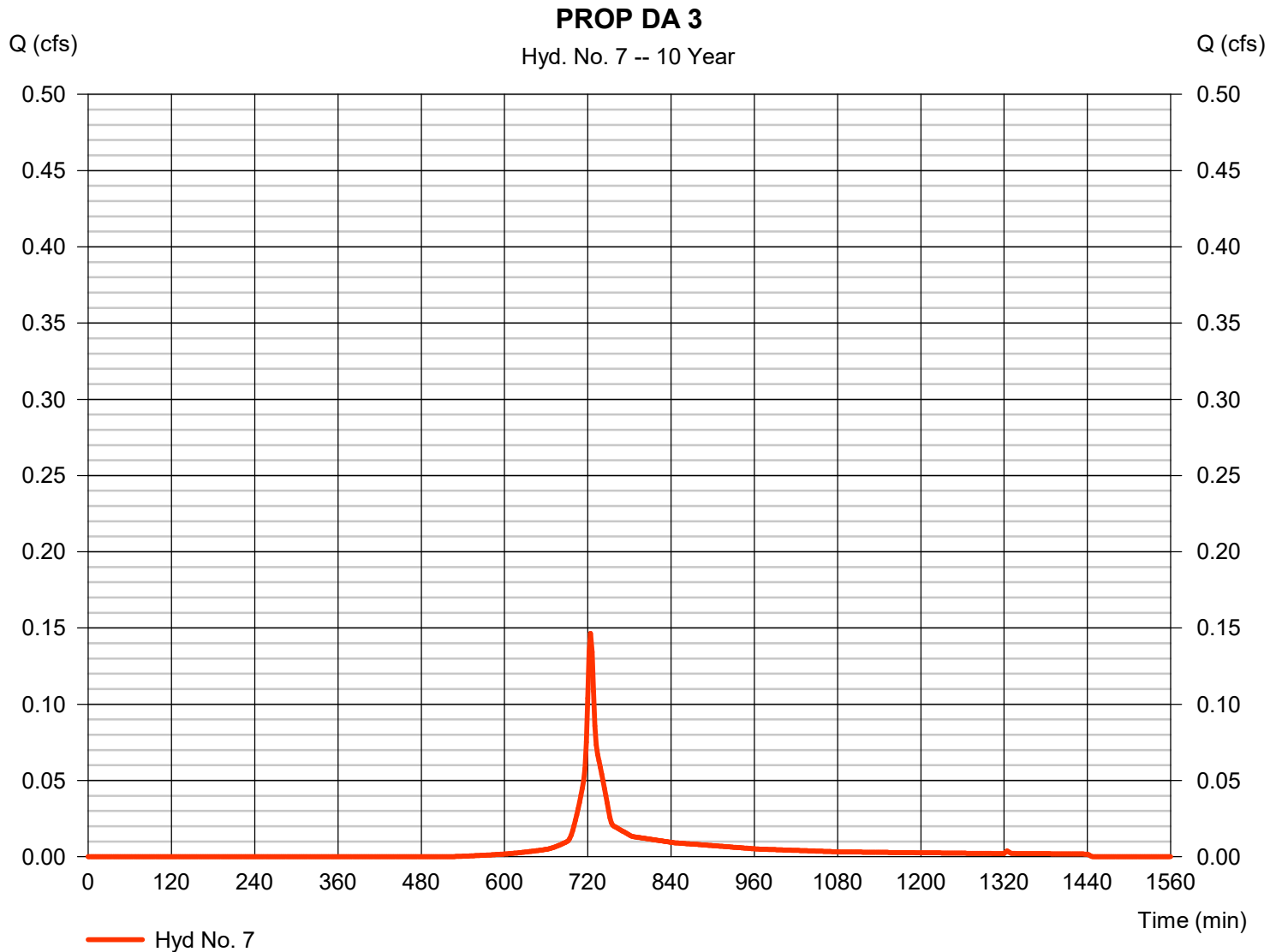
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

Monday, 04 / 6 / 2020

Hyd. No. 7

PROP DA 3

Hydrograph type	= SCS Runoff	Peak discharge	= 0.146 cfs
Storm frequency	= 10 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 439 cuft
Drainage area	= 0.049 ac	Curve number	= 74
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 5.33 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

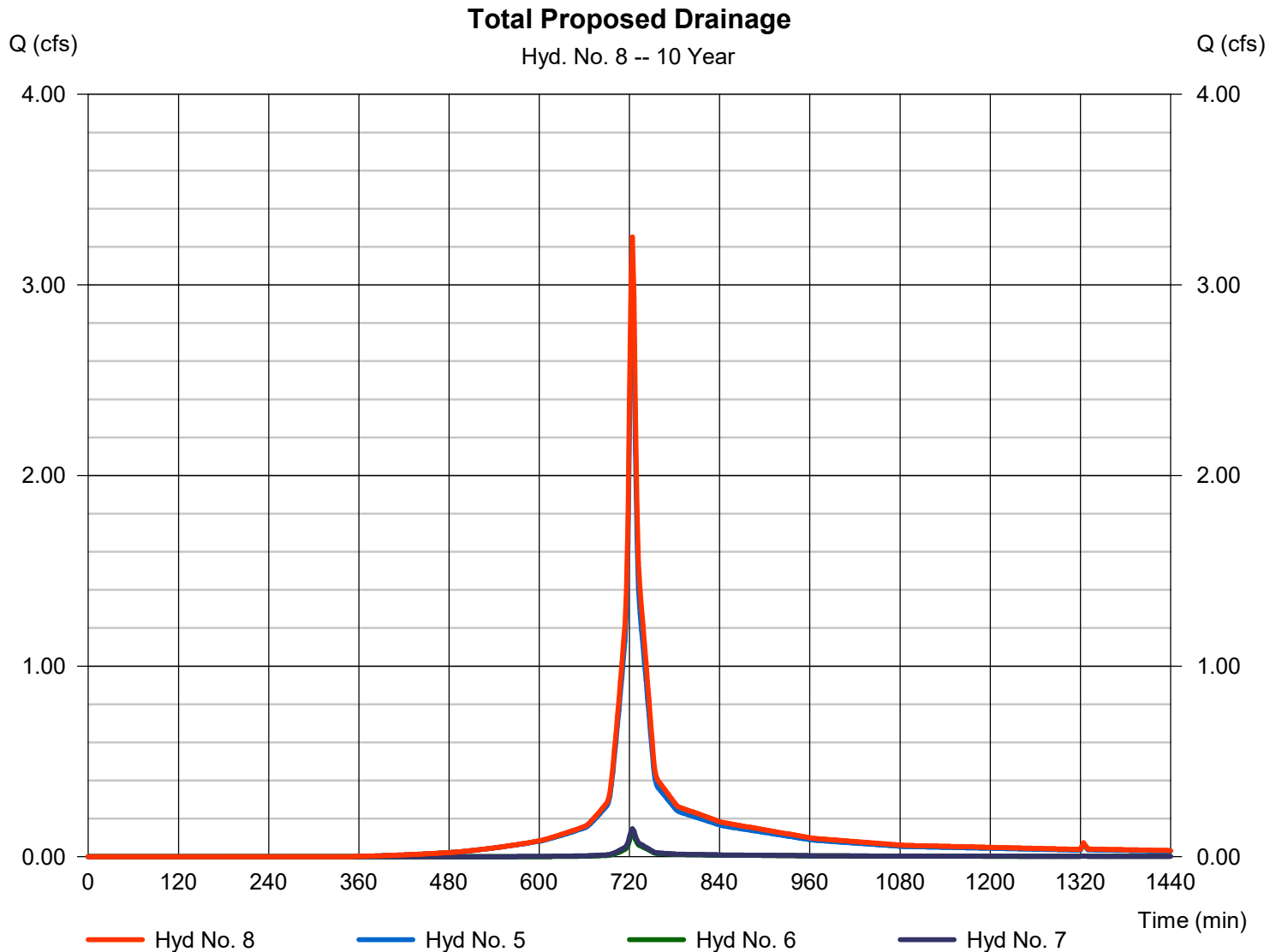
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

Monday, 04 / 6 / 2020

Hyd. No. 8

Total Proposed Drainage

Hydrograph type	= Combine	Peak discharge	= 3.252 cfs
Storm frequency	= 10 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 9,871 cuft
Inflow hyds.	= 5, 6, 7	Contrib. drain. area	= 0.823 ac



Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

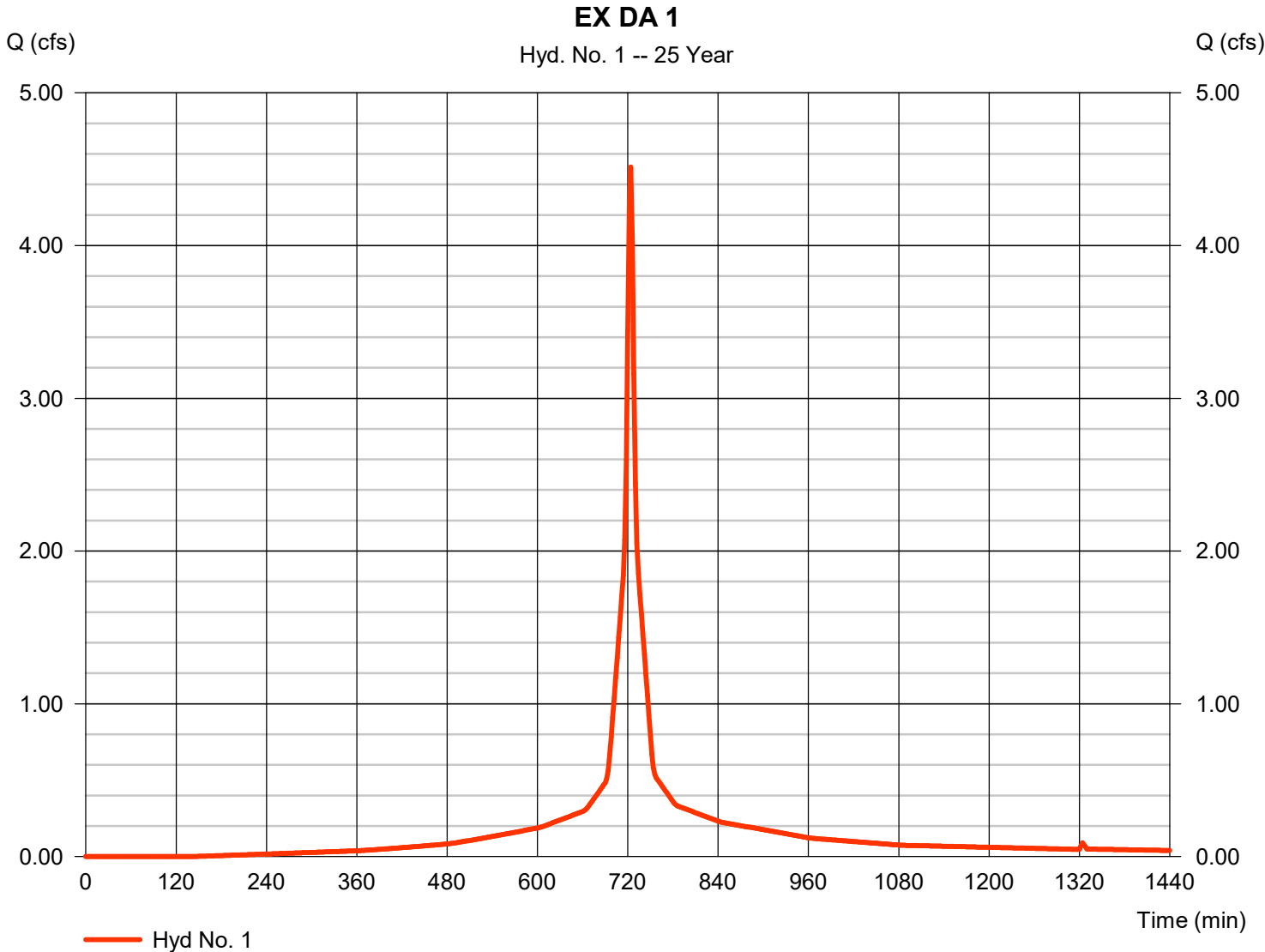
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	4.514	2	724	14,716	----	----	----	EX DA 1
2	SCS Runoff	0.163	2	724	489	----	----	----	EX DA 2
3	SCS Runoff	0.164	2	724	489	----	----	----	EX DA 3
4	Combine	4.841	2	724	15,694	1, 2, 3	----	----	Total Existing Drainage
5	SCS Runoff	3.900	2	724	11,995	----	----	----	PROP DA 1
6	SCS Runoff	0.177	2	724	530	----	----	----	PROP DA 2
7	SCS Runoff	0.206	2	724	615	----	----	----	PROP DA 3
8	Combine	4.283	2	724	13,140	5, 6, 7	----	----	Total Proposed Drainage

Hydrograph Report

Hyd. No. 1

EX DA 1

Hydrograph type	= SCS Runoff	Peak discharge	= 4.514 cfs
Storm frequency	= 25 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 14,716 cuft
Drainage area	= 0.750 ac	Curve number	= 93
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 6.59 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

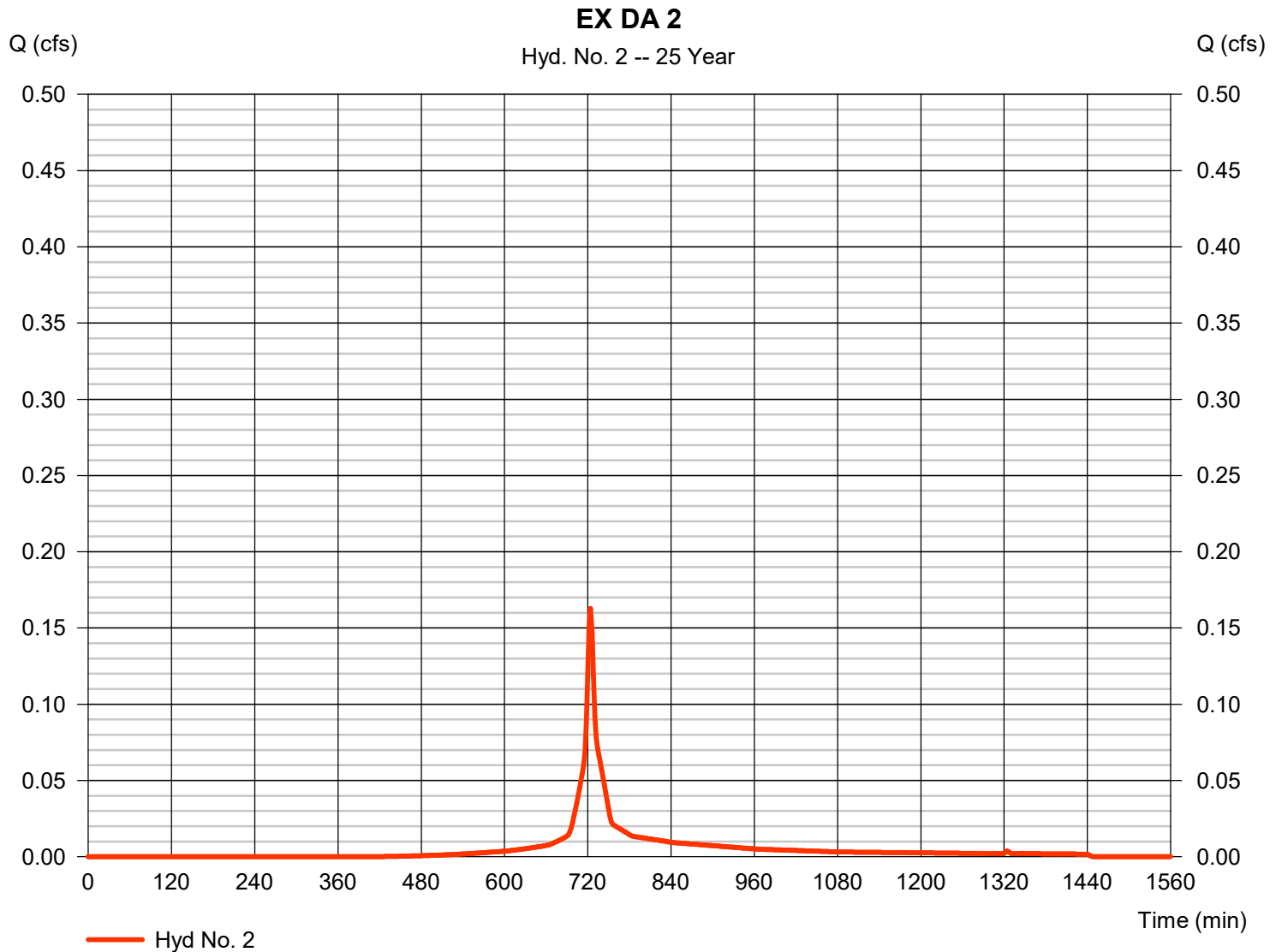
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

Monday, 04 / 6 / 2020

Hyd. No. 2

EX DA 2

Hydrograph type	= SCS Runoff	Peak discharge	= 0.163 cfs
Storm frequency	= 25 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 489 cuft
Drainage area	= 0.035 ac	Curve number	= 78
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 6.59 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484

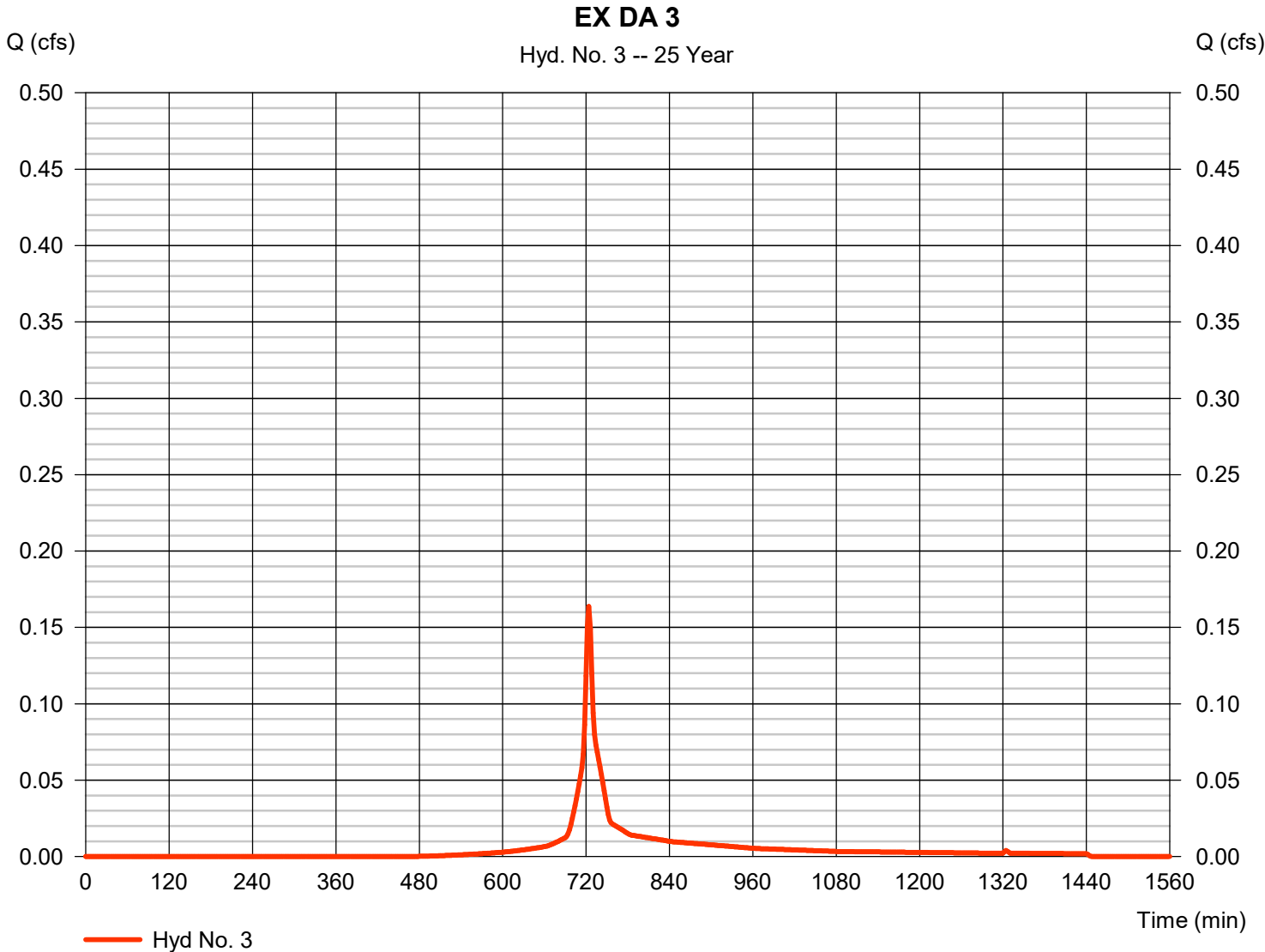


Hydrograph Report

Hyd. No. 3

EX DA 3

Hydrograph type	= SCS Runoff	Peak discharge	= 0.164 cfs
Storm frequency	= 25 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 489 cuft
Drainage area	= 0.039 ac	Curve number	= 74
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 6.59 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

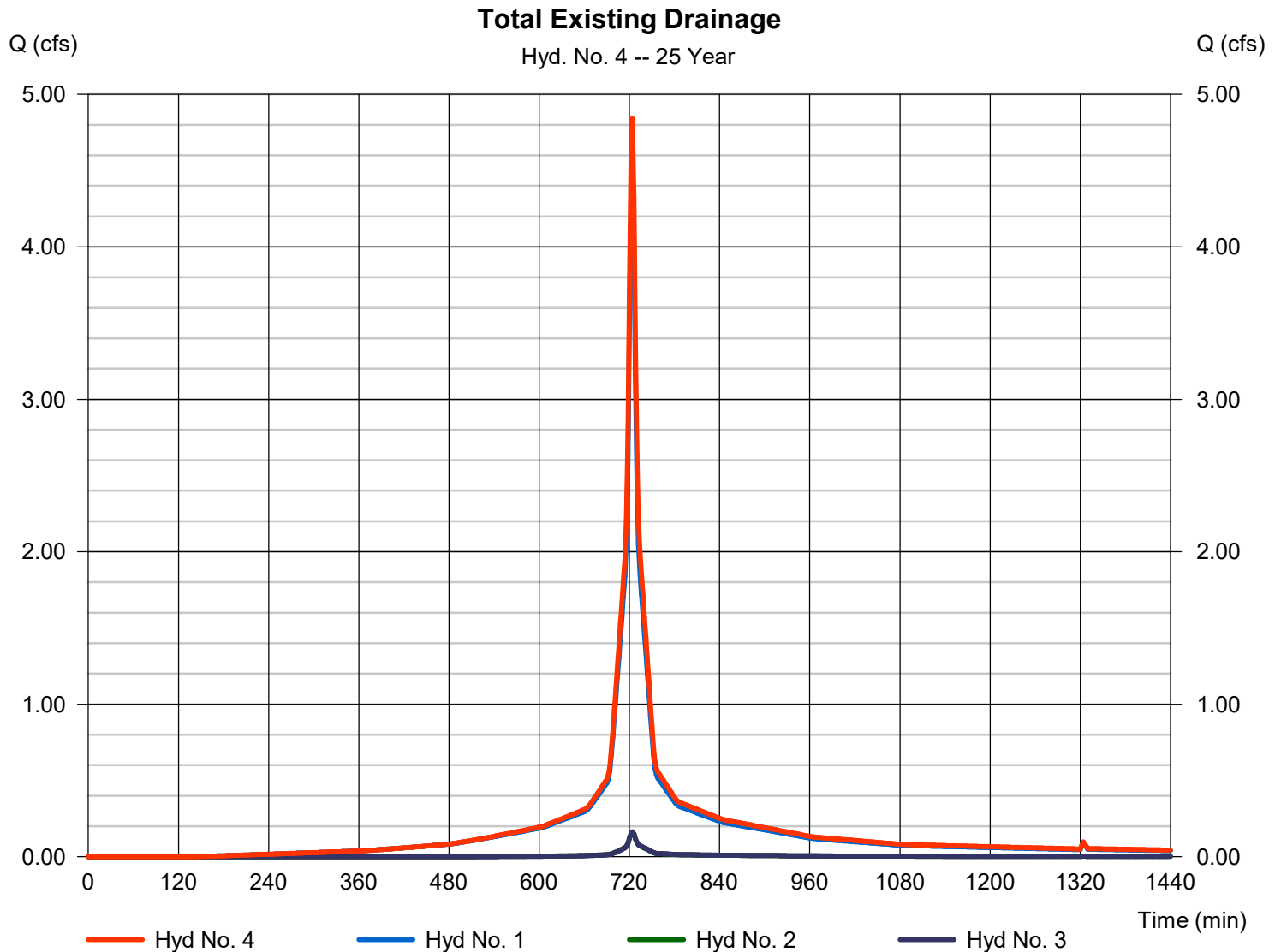
Monday, 04 / 6 / 2020

Hyd. No. 4

Total Existing Drainage

Hydrograph type = Combine
Storm frequency = 25 yrs
Time interval = 2 min
Inflow hyds. = 1, 2, 3

Peak discharge = 4.841 cfs
Time to peak = 724 min
Hyd. volume = 15,694 cuft
Contrib. drain. area = 0.824 ac



Hydrograph Report

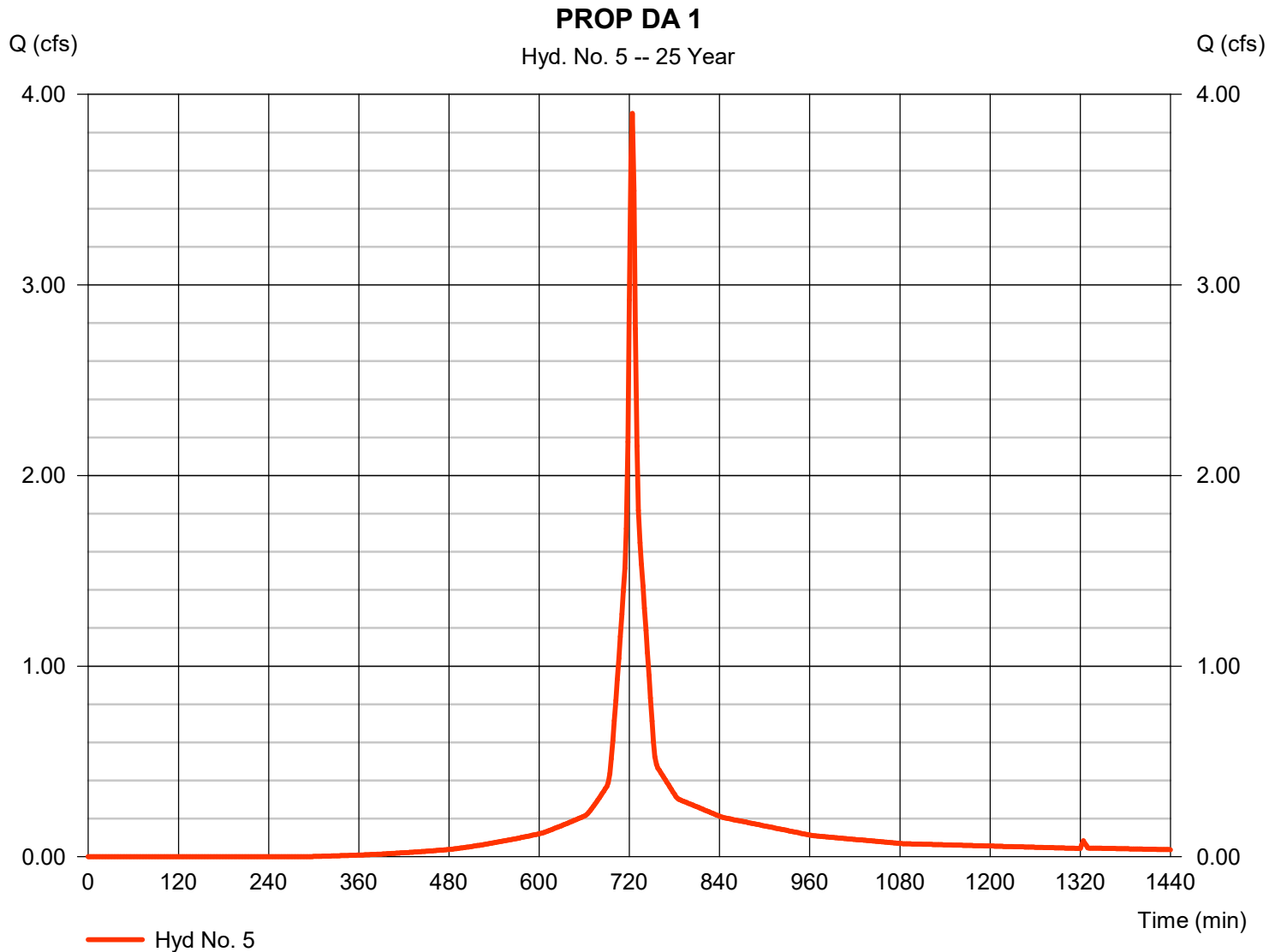
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Monday, 04 / 6 / 2020

Hyd. No. 5

PROP DA 1

Hydrograph type	= SCS Runoff	Peak discharge	= 3.900 cfs
Storm frequency	= 25 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 11,995 cuft
Drainage area	= 0.725 ac	Curve number	= 85
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 6.59 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484

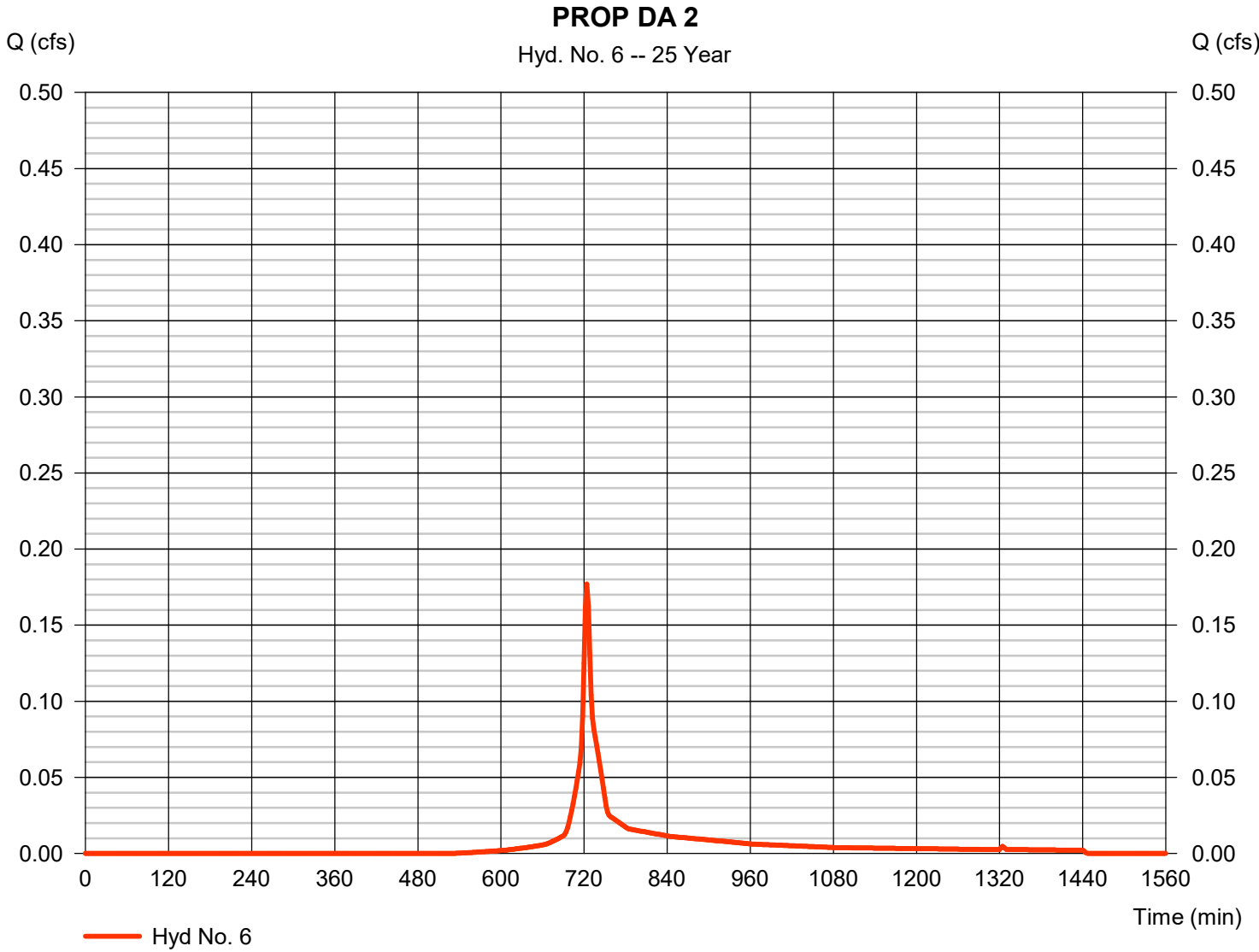


Hydrograph Report

Hyd. No. 6

PROP DA 2

Hydrograph type	= SCS Runoff	Peak discharge	= 0.177 cfs
Storm frequency	= 25 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 530 cuft
Drainage area	= 0.049 ac	Curve number	= 69
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 6.59 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

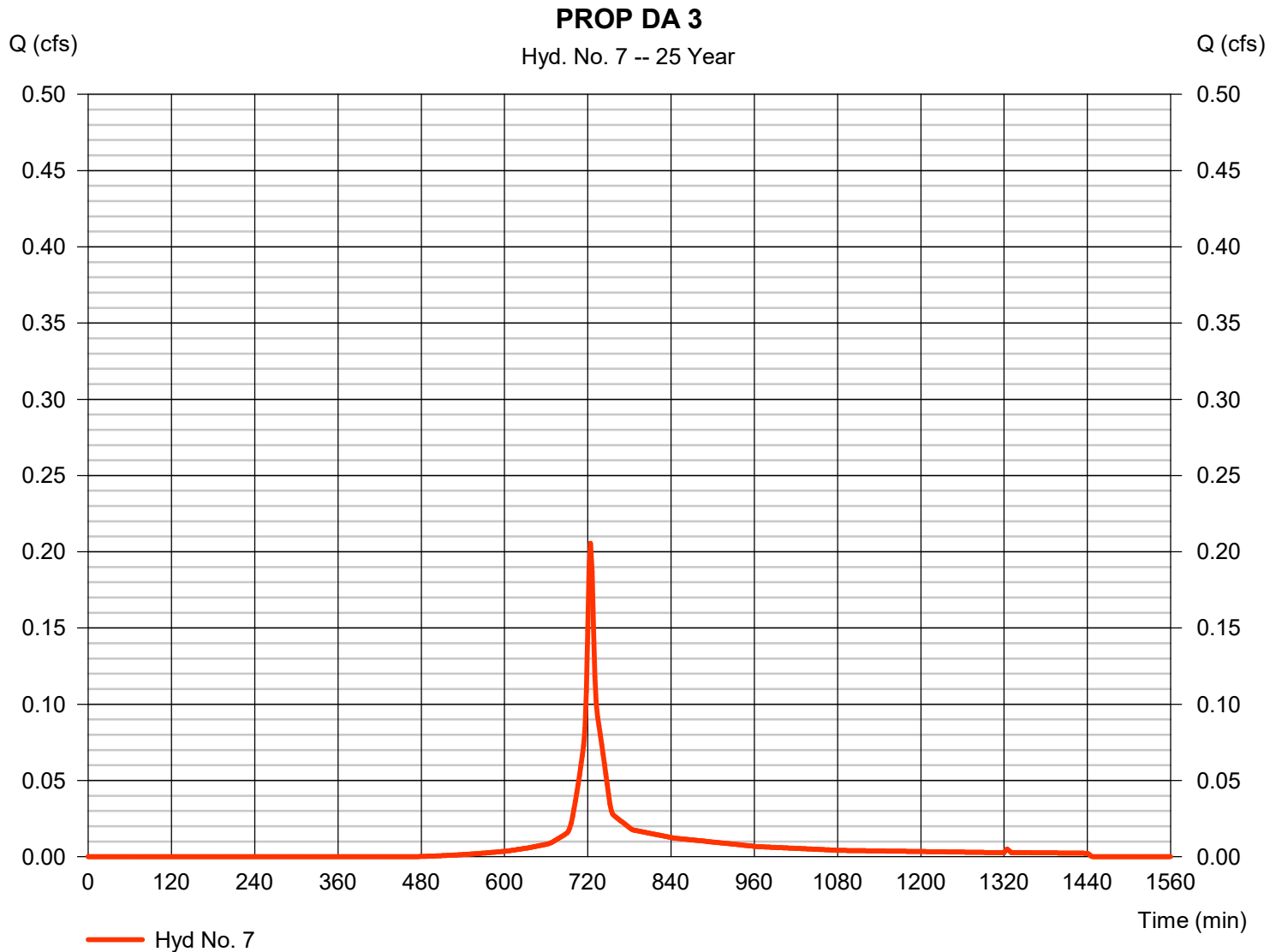
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

Monday, 04 / 6 / 2020

Hyd. No. 7

PROP DA 3

Hydrograph type	= SCS Runoff	Peak discharge	= 0.206 cfs
Storm frequency	= 25 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 615 cuft
Drainage area	= 0.049 ac	Curve number	= 74
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 6.59 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

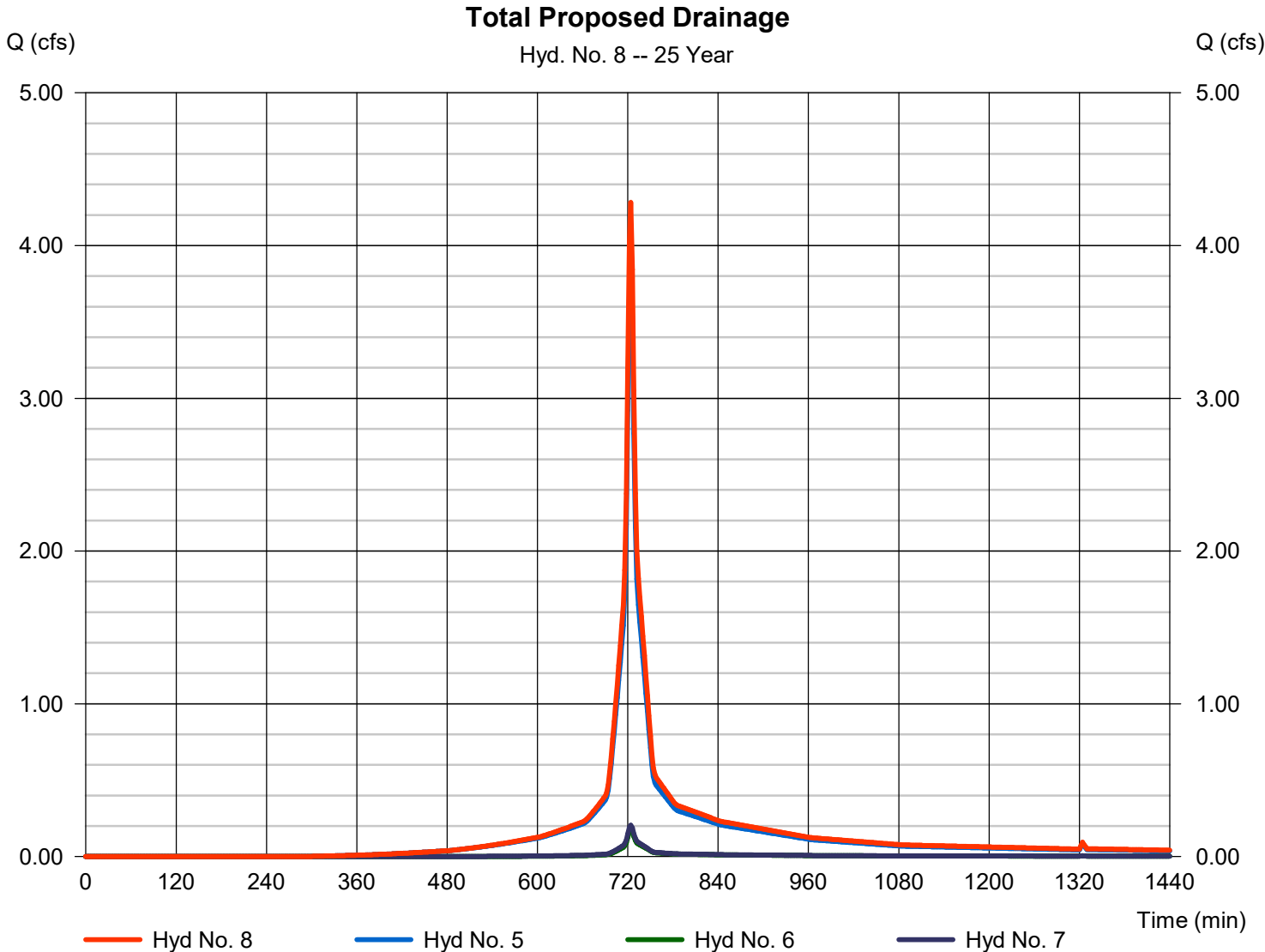
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

Monday, 04 / 6 / 2020

Hyd. No. 8

Total Proposed Drainage

Hydrograph type	= Combine	Peak discharge	= 4.283 cfs
Storm frequency	= 25 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 13,140 cuft
Inflow hyds.	= 5, 6, 7	Contrib. drain. area	= 0.823 ac



Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

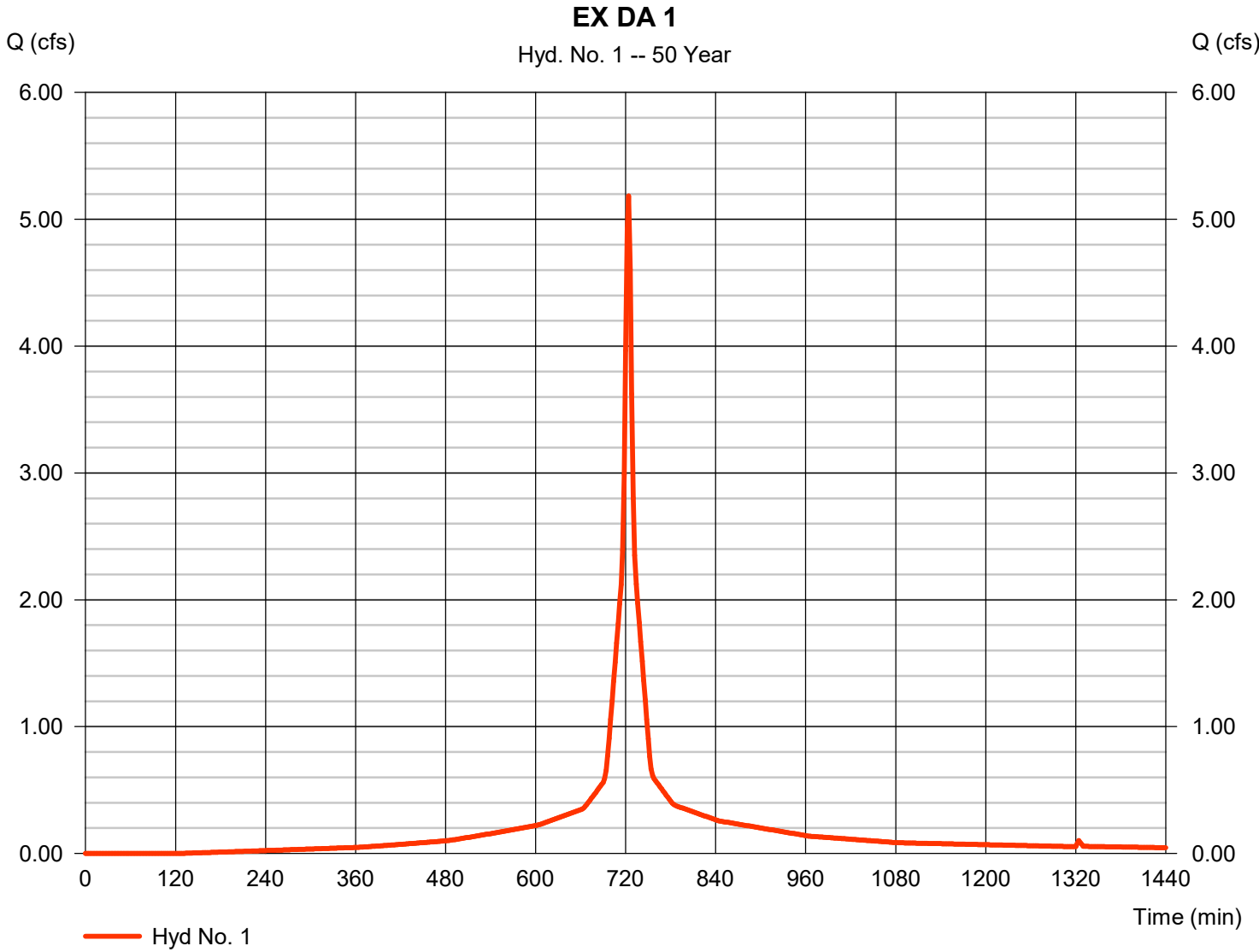
Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	5.184	2	724	17,041	----	----	----	EX DA 1
2	SCS Runoff	0.195	2	724	588	----	----	----	EX DA 2
3	SCS Runoff	0.199	2	724	596	----	----	----	EX DA 3
4	Combine	5.578	2	724	18,225	1, 2, 3	----	----	Total Existing Drainage
5	SCS Runoff	4.567	2	724	14,166	----	----	----	PROP DA 1
6	SCS Runoff	0.220	2	724	656	----	----	----	PROP DA 2
7	SCS Runoff	0.250	2	724	749	----	----	----	PROP DA 3
8	Combine	5.037	2	724	15,571	5, 6, 7	----	----	Total Proposed Drainage

Hydrograph Report

Hyd. No. 1

EX DA 1

Hydrograph type	= SCS Runoff	Peak discharge	= 5.184 cfs
Storm frequency	= 50 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 17,041 cuft
Drainage area	= 0.750 ac	Curve number	= 93
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 7.51 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

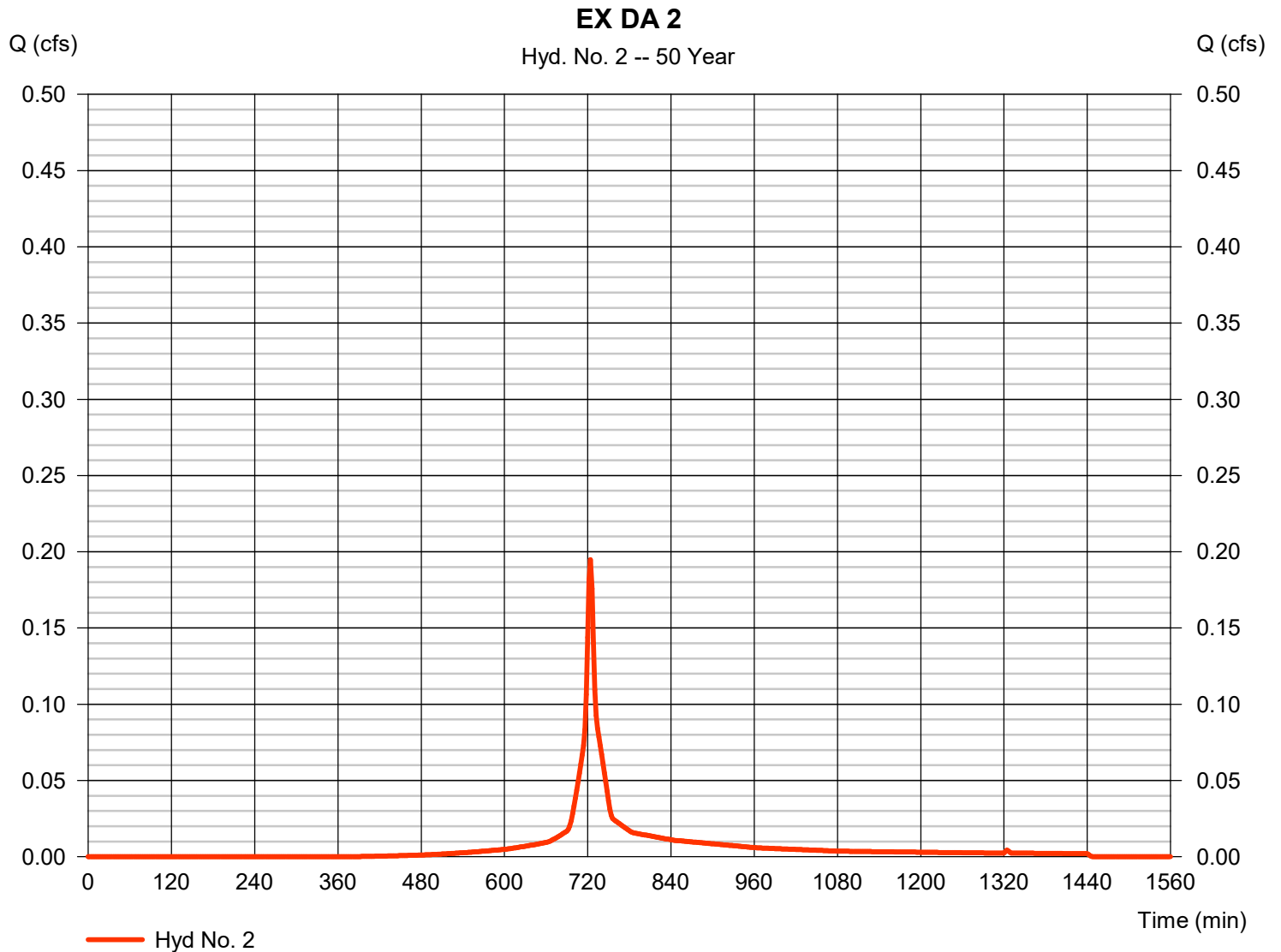
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Monday, 04 / 6 / 2020

Hyd. No. 2

EX DA 2

Hydrograph type	= SCS Runoff	Peak discharge	= 0.195 cfs
Storm frequency	= 50 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 588 cuft
Drainage area	= 0.035 ac	Curve number	= 78
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 7.51 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

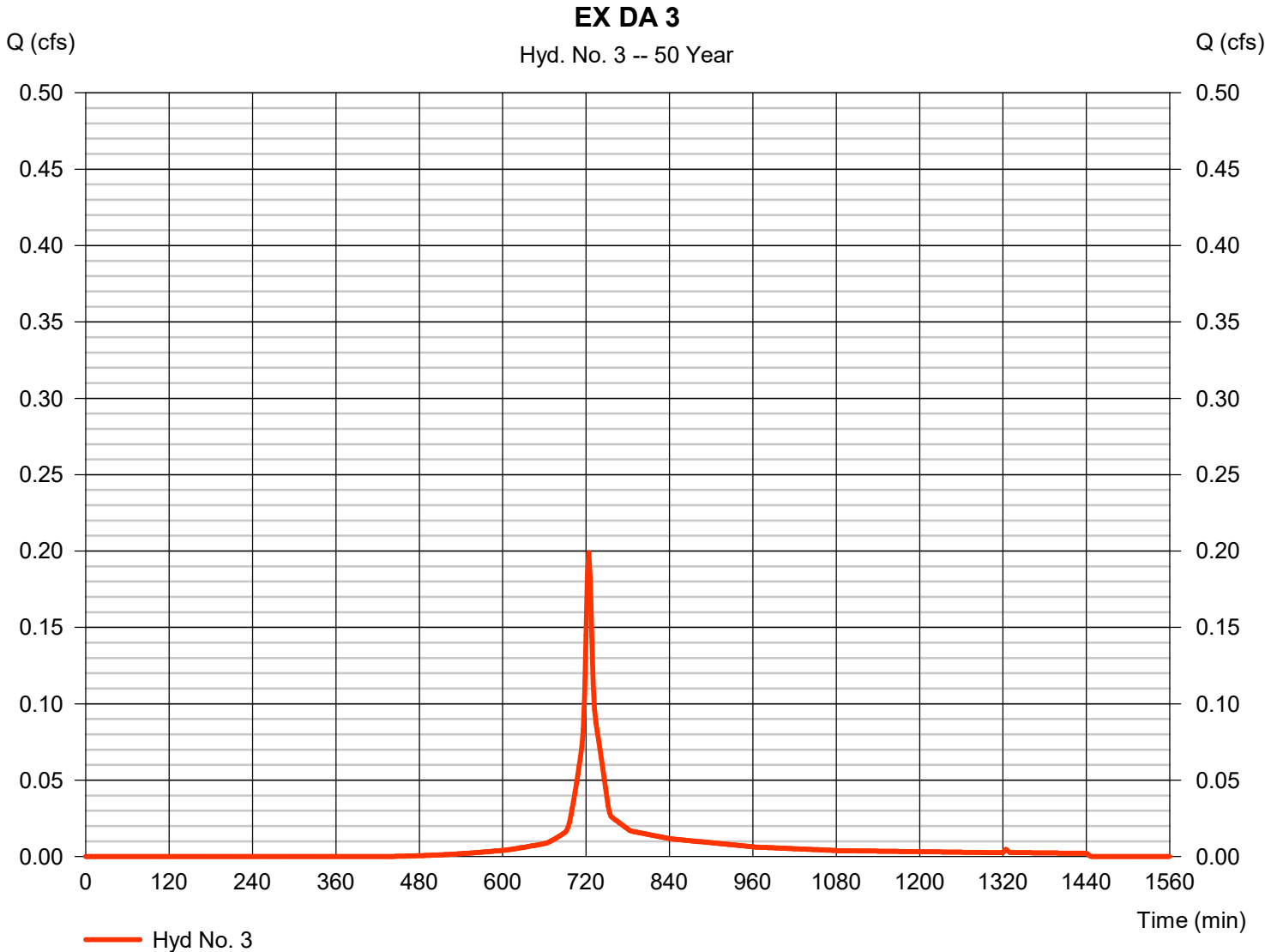
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Monday, 04 / 6 / 2020

Hyd. No. 3

EX DA 3

Hydrograph type	= SCS Runoff	Peak discharge	= 0.199 cfs
Storm frequency	= 50 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 596 cuft
Drainage area	= 0.039 ac	Curve number	= 74
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 7.51 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

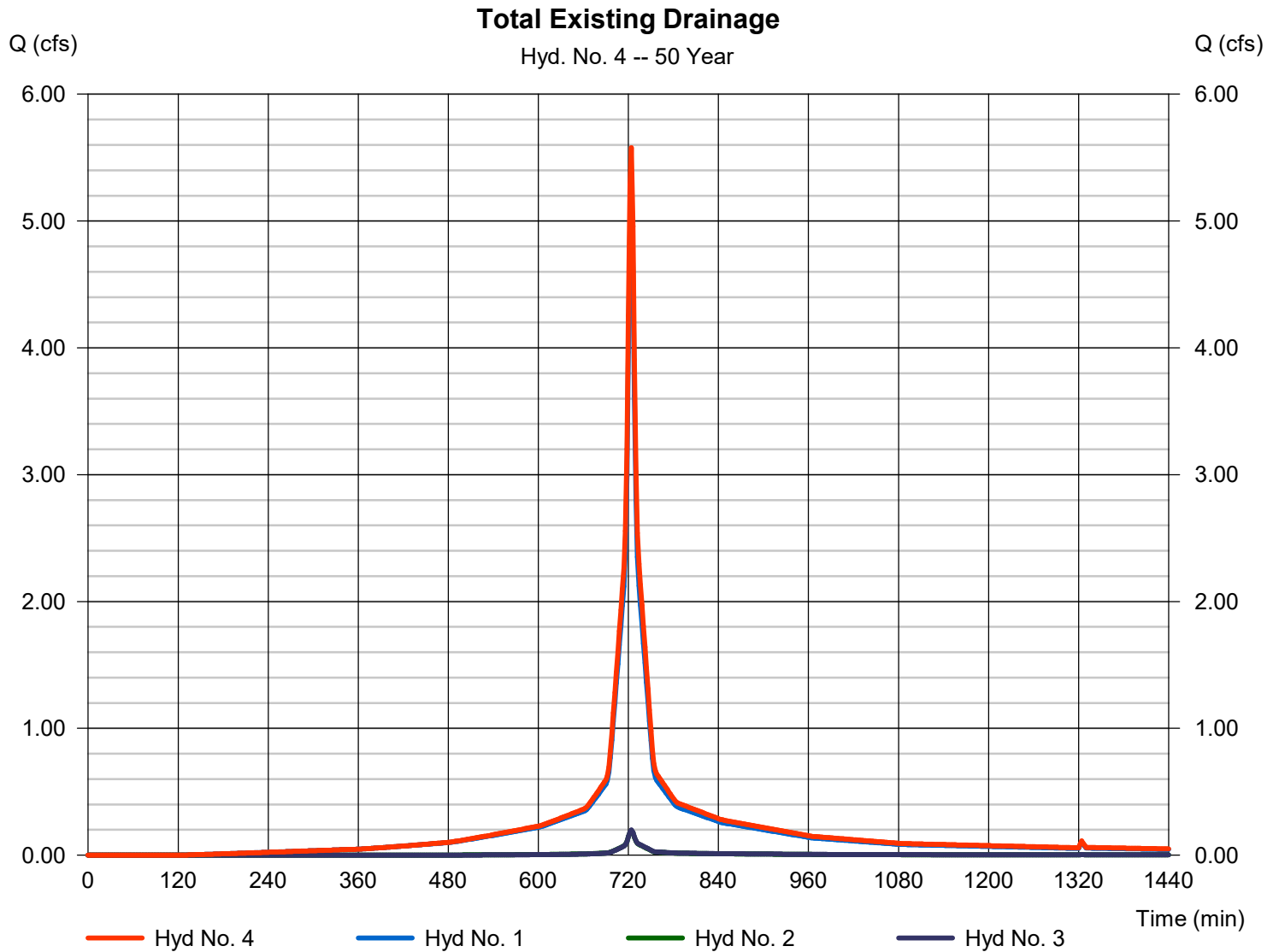
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Monday, 04 / 6 / 2020

Hyd. No. 4

Total Existing Drainage

Hydrograph type	= Combine	Peak discharge	= 5.578 cfs
Storm frequency	= 50 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 18,225 cuft
Inflow hyds.	= 1, 2, 3	Contrib. drain. area	= 0.824 ac



Hydrograph Report

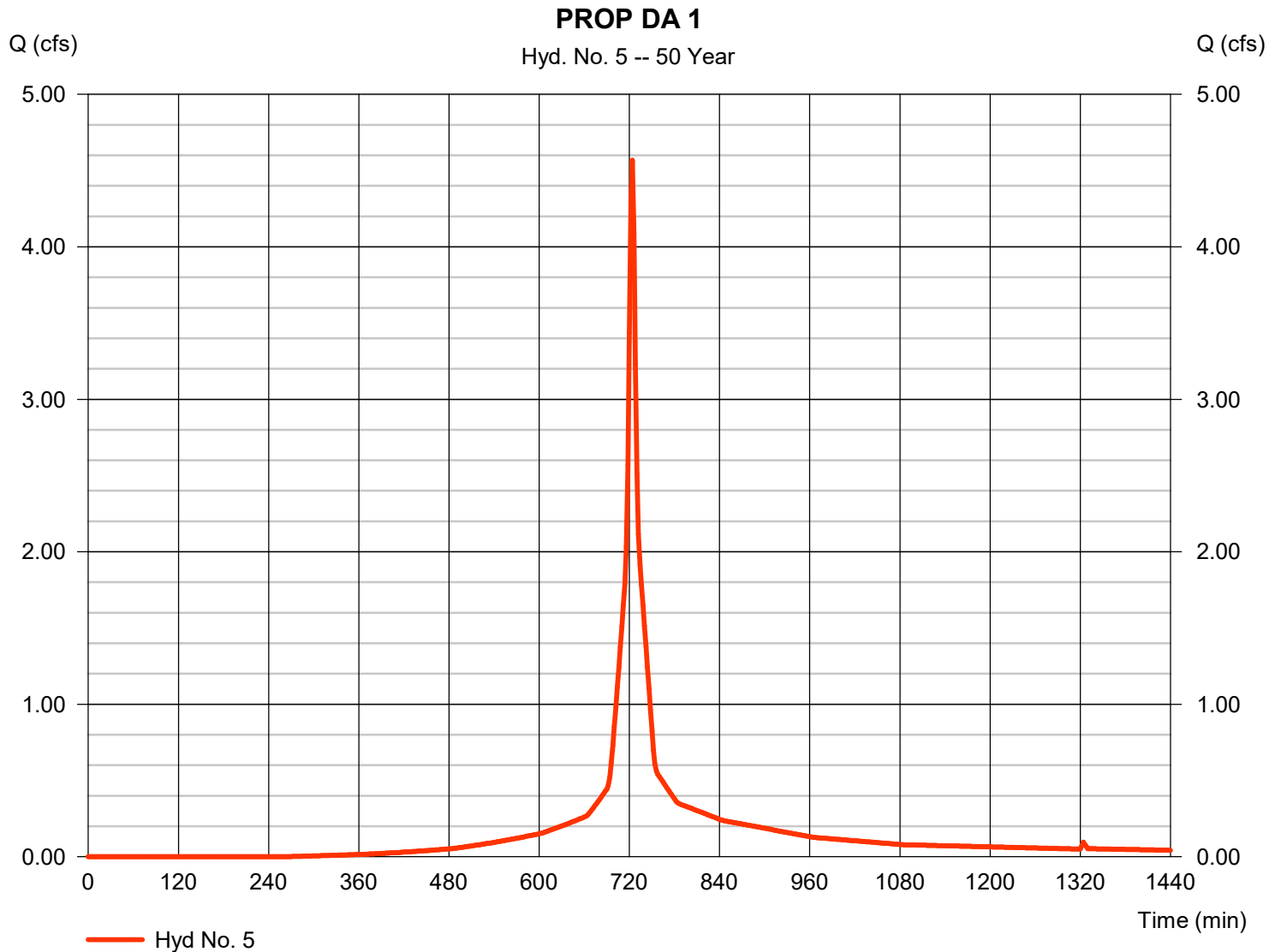
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

Monday, 04 / 6 / 2020

Hyd. No. 5

PROP DA 1

Hydrograph type	= SCS Runoff	Peak discharge	= 4.567 cfs
Storm frequency	= 50 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 14,166 cuft
Drainage area	= 0.725 ac	Curve number	= 85
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 7.51 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

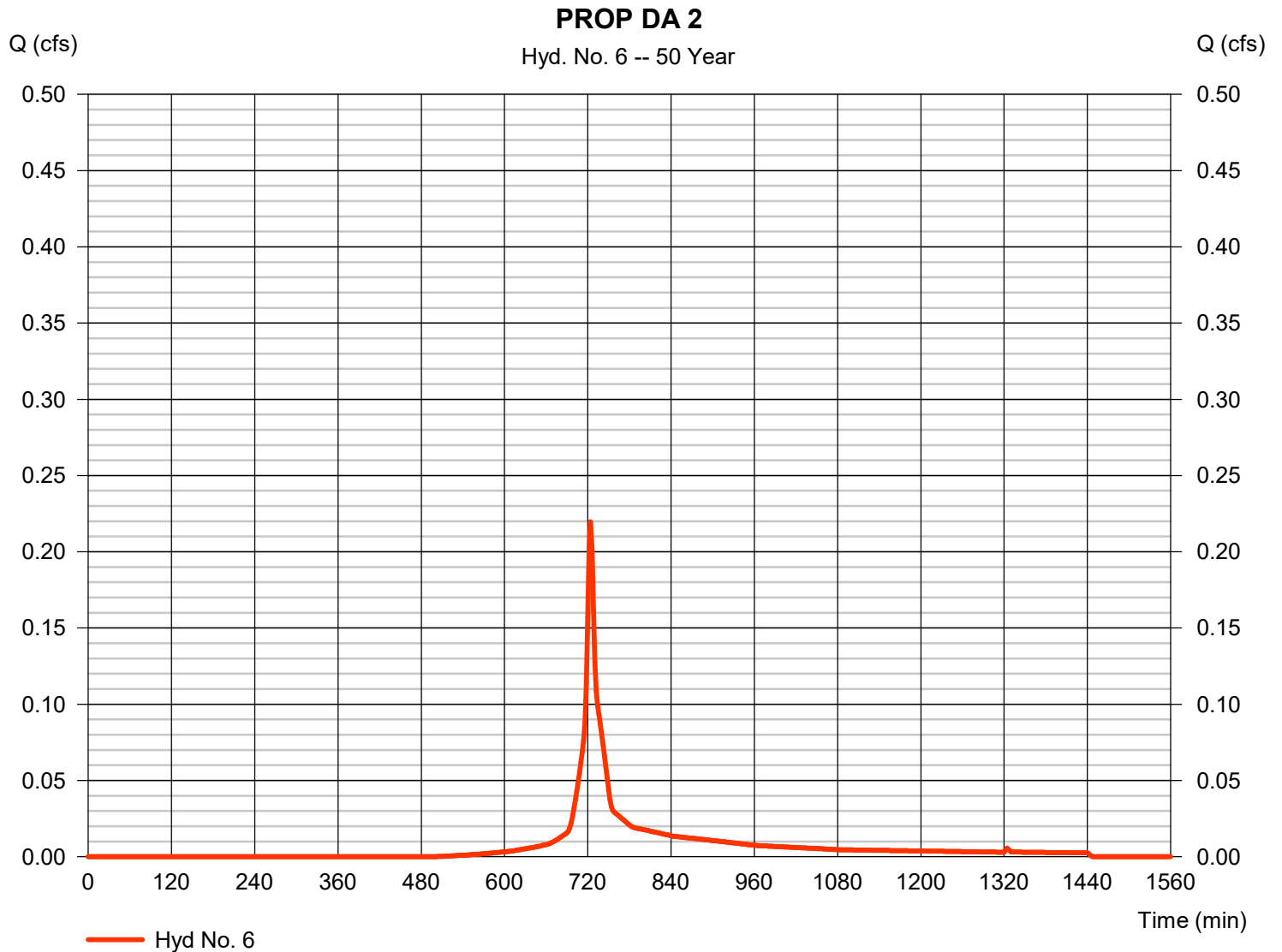
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

Monday, 04 / 6 / 2020

Hyd. No. 6

PROP DA 2

Hydrograph type	= SCS Runoff	Peak discharge	= 0.220 cfs
Storm frequency	= 50 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 656 cuft
Drainage area	= 0.049 ac	Curve number	= 69
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 7.51 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

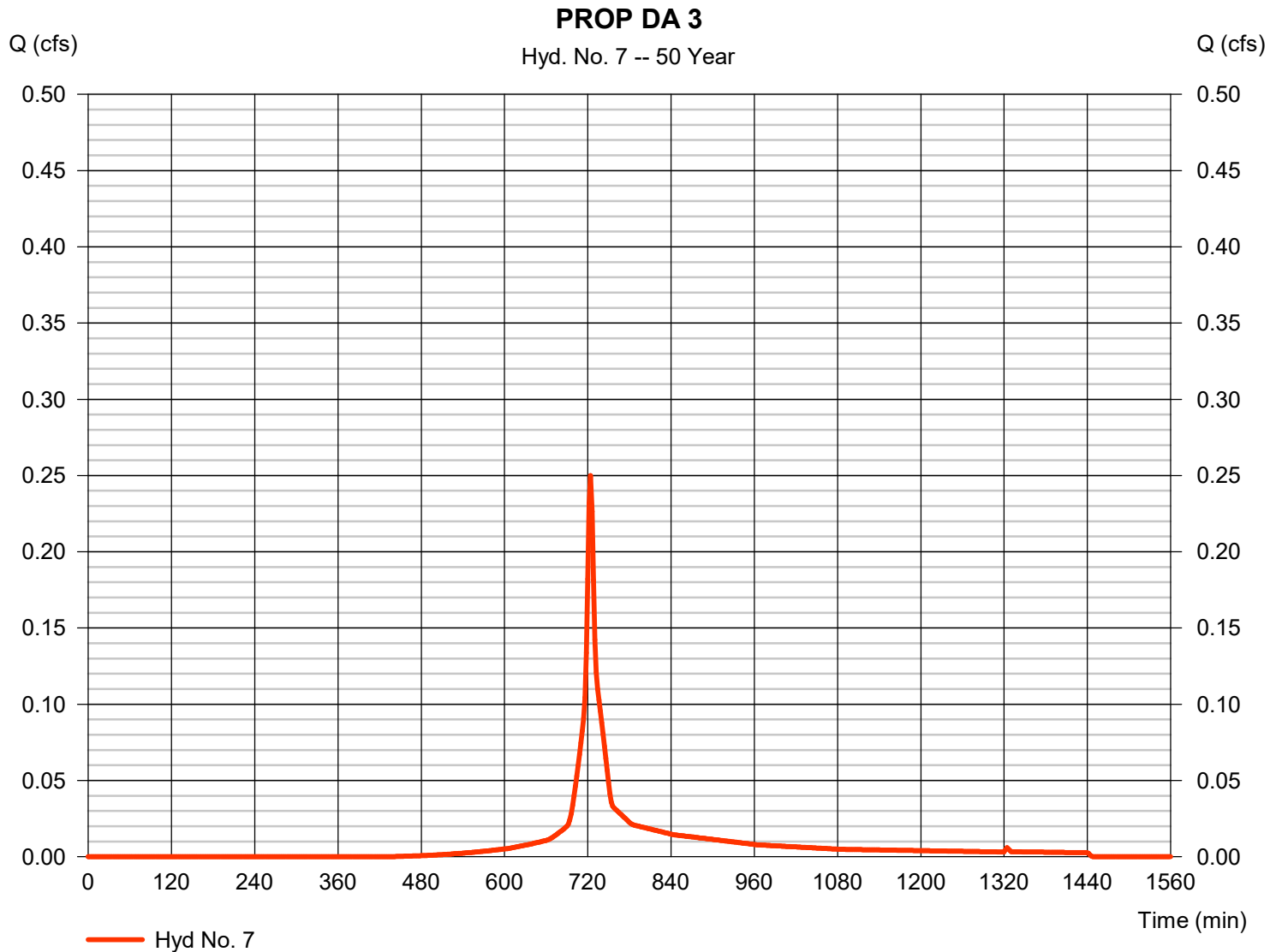
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

Monday, 04 / 6 / 2020

Hyd. No. 7

PROP DA 3

Hydrograph type	= SCS Runoff	Peak discharge	= 0.250 cfs
Storm frequency	= 50 yrs	Time to peak	= 724 min
Time interval	= 2 min	Hyd. volume	= 749 cuft
Drainage area	= 0.049 ac	Curve number	= 74
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= User	Time of conc. (Tc)	= 6.00 min
Total precip.	= 7.51 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020

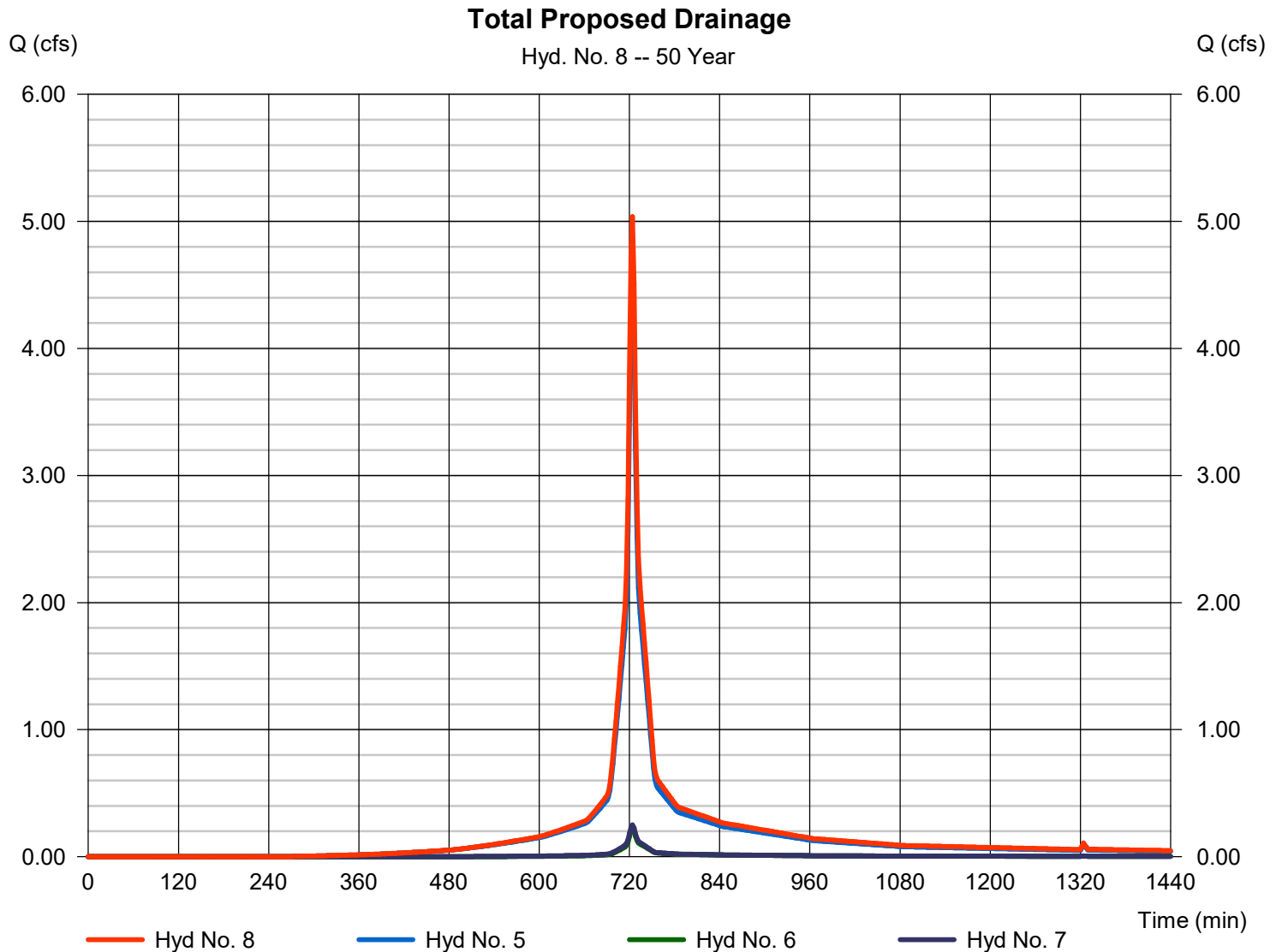
Monday, 04 / 6 / 2020

Hyd. No. 8

Total Proposed Drainage

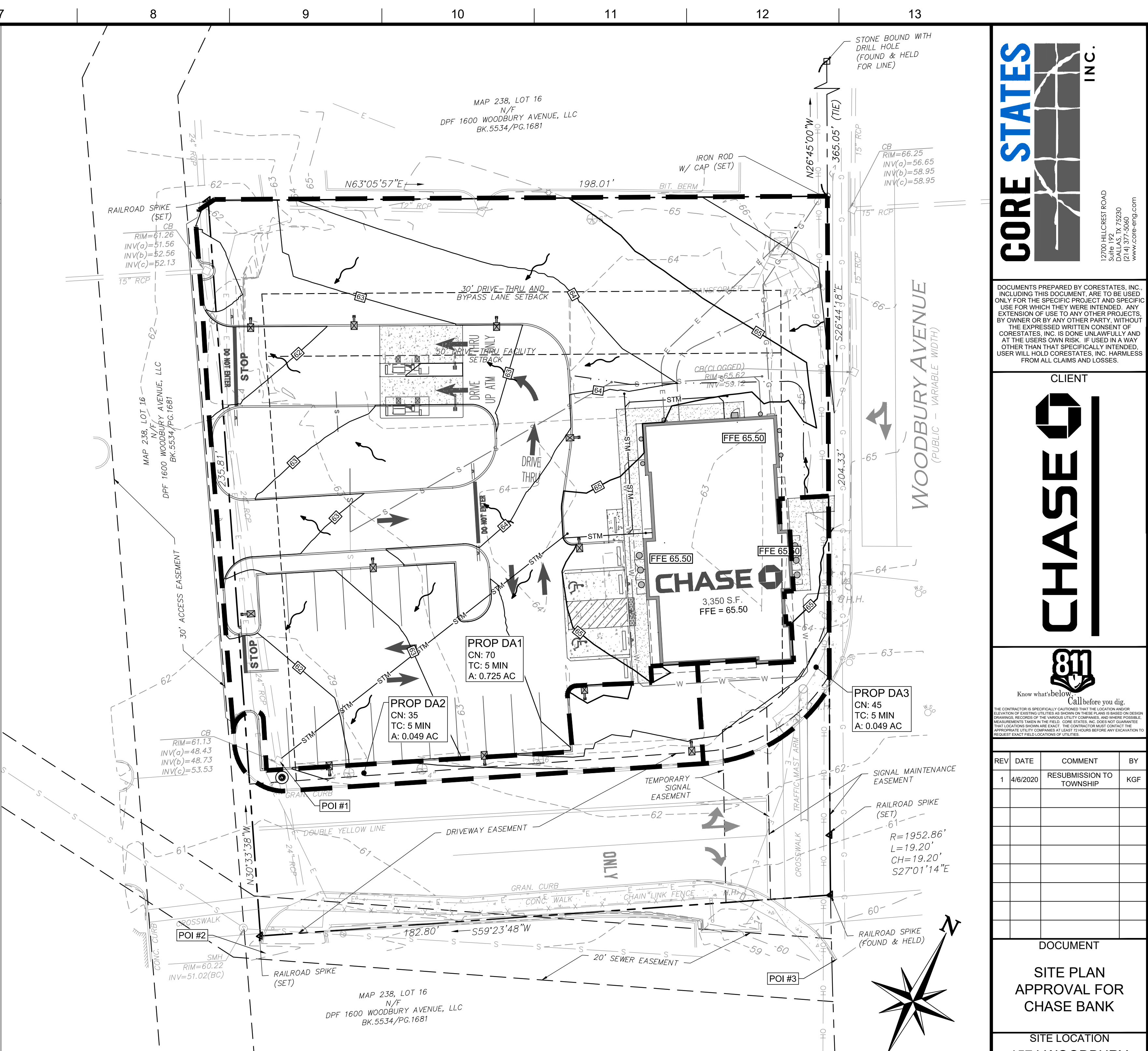
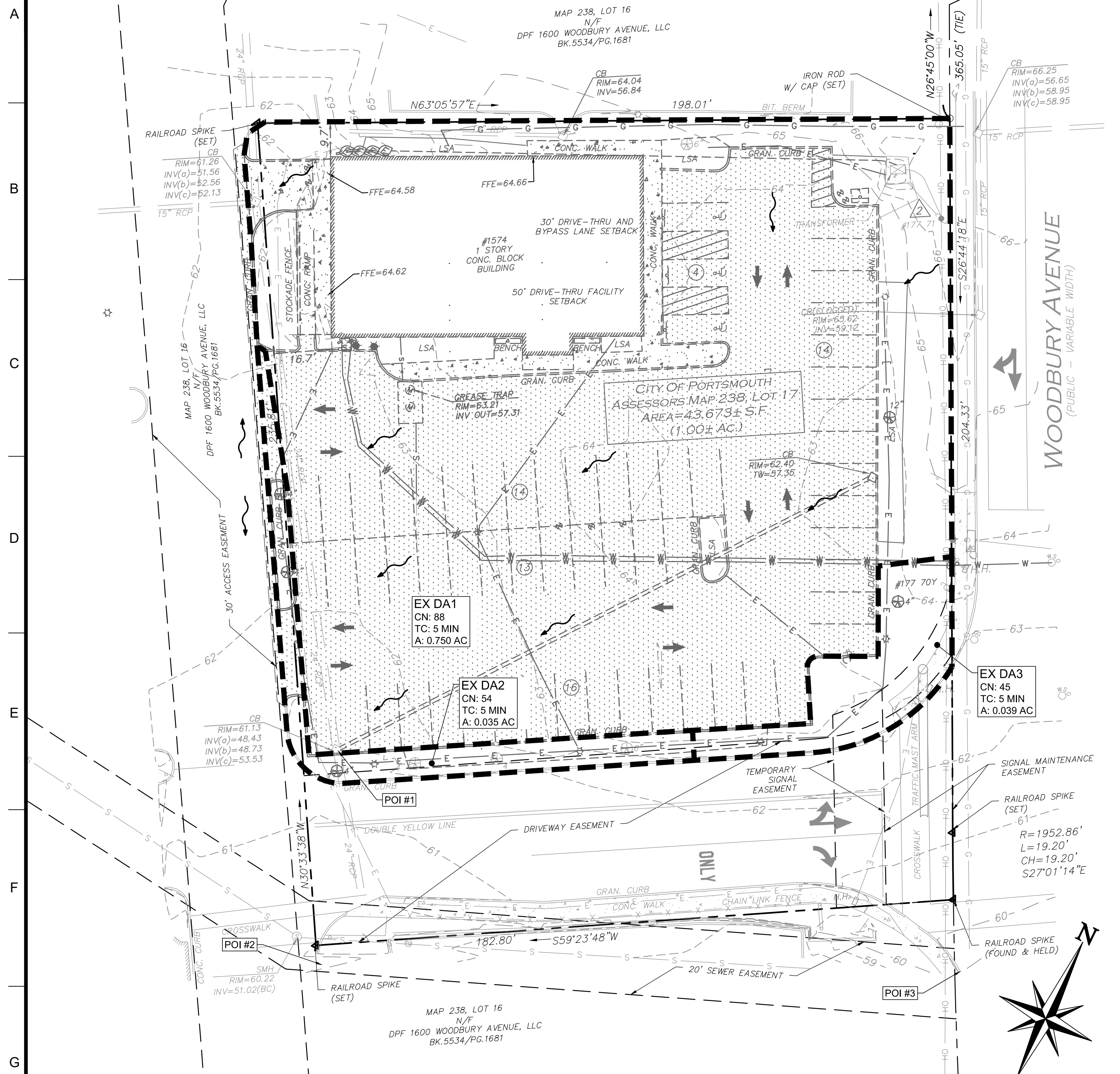
Hydrograph type = Combine
Storm frequency = 50 yrs
Time interval = 2 min
Inflow hyds. = 5, 6, 7

Peak discharge = 5.037 cfs
Time to peak = 724 min
Hyd. volume = 15,571 cuft
Contrib. drain. area = 0.823 ac



APPENDIX D

DRAINAGE AREA MAPS



PRE-DEVELOPMENT DRAINAGE AREA MAP
SCALE 1" = 20'

POST-DEVELOPMENT DRAINAGE AREA MAP
SCALE 1" = 20'

EX-DA 1

IMPERVIOUS (CN 98) = 27,367 SQUARE FEET
PERVIOUS (CN 69) = 5,301 SQUARE FEET
TOTAL (CN 93) = 32,668 SQUARE FEET (0.750 AC)

EX-DA 2 (BYPASS)

IMPERVIOUS (CN 98) = 469 SQUARE FEET
PERVIOUS (CN 69) = 1,065 SQUARE FEET
TOTAL (CN 78) = 1,534 SQUARE FEET (0.035 AC)

EX-DA 3 (BYPASS PROW)

IMPERVIOUS (CN 98) = 271 SQUARE FEET
PERVIOUS (CN 69) = 1,404 SQUARE FEET
TOTAL (CN 74) = 1,675 SQUARE FEET (0.039 AC)

PROP-DA 1

IMPERVIOUS (CN 98) = 17,638 SQUARE FEET
PERVIOUS (CN 69) = 14,407 SQUARE FEET
TOTAL (CN 85) = 32,045 SQUARE FEET (0.736 AC)

PROP-DA 2 (BYPASS)

IMPERVIOUS (CN 98) = 0 SQUARE FEET
PERVIOUS (CN 69) = 2,142 SQUARE FEET
TOTAL (CN 69) = 2,142 SQUARE FEET (0.049 AC)

PROP-DA 3 (BYPASS PROW)

IMPERVIOUS (CN 98) = 338 SQUARE FEET
PERVIOUS (CN 69) = 1,352 SQUARE FEET
TOTAL (CN 74) = 1,690 SQUARE FEET (0.039 AC)

ALERT TO CONTRACTOR:

PRIOR TO THE CONSTRUCTION OF OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, WATER MAIN OR ANY OF THE DRY UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM ENGINEER AND THE OWNER OF ANY CONFLICT OR REQUIRED DEVIATIONS FROM THE PLAN. NOTIFICATION SHALL BE MADE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. ENGINEER AND OWNER SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.

CORE STATES INC.
1270 HILLCREST ROAD
DALLAS, TX 75220
(214) 377-5860
www.core-eng.com

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CLIENT
CHASE

811
Know what's below. Call before you dig.
The contractor is specifically cautioned that the location and/or location of existing utilities as shown on these drawings are based on measurements taken in the field. CORE STATES, INC. DOES NOT GUARANTEE THE LOCATION, DEPTH OR EXACT LOCATION OF UTILITIES SHOWN ON THESE DRAWINGS.

REV	DATE	COMMENT	BY
1	4/8/2020	RESUBMISSION TO TOWNSHIP	KGF

DOCUMENT
SITE PLAN APPROVAL FOR CHASE BANK

SITE LOCATION
1574 WOODBURY AVENUE, PORTSMOUTH, NH 03801

ENGINEER SEAL
THOMAS C. PICKERING, P.E.
PEN. 0010218

CORE STATES, INC. NH STATE
CERTIFICATE OF AUTHORIZATION
#01208

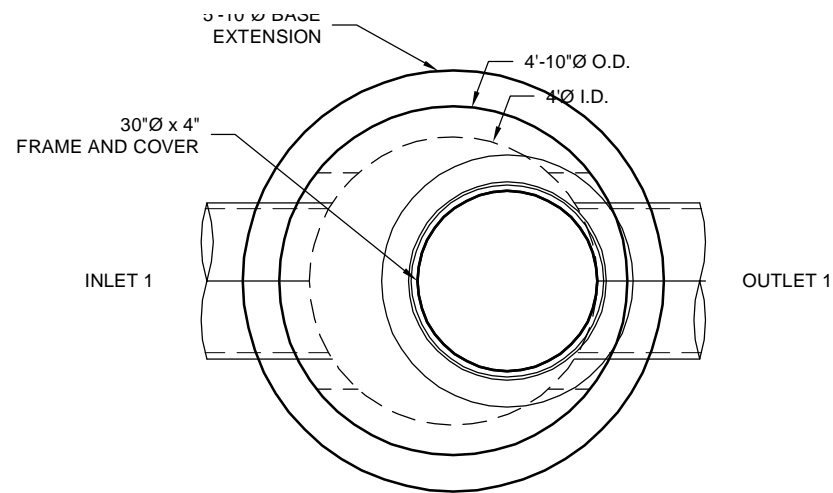
SHEET TITLE
DRAINAGE AREA MAPS

JOB #:	JPM 27086
DATE:	04/03/2020
SCALE:	AS NOTED
DRAWN BY:	DJR
CHECKED BY:	AR

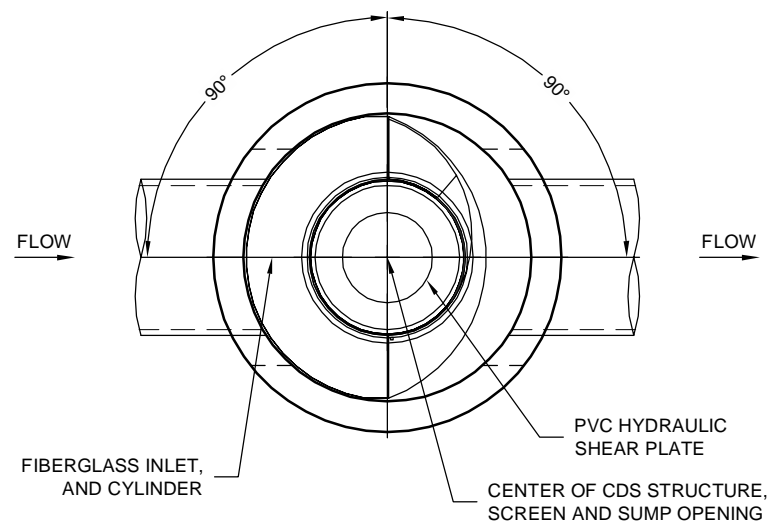
SHEET NO.
C-5

APPENDIX E

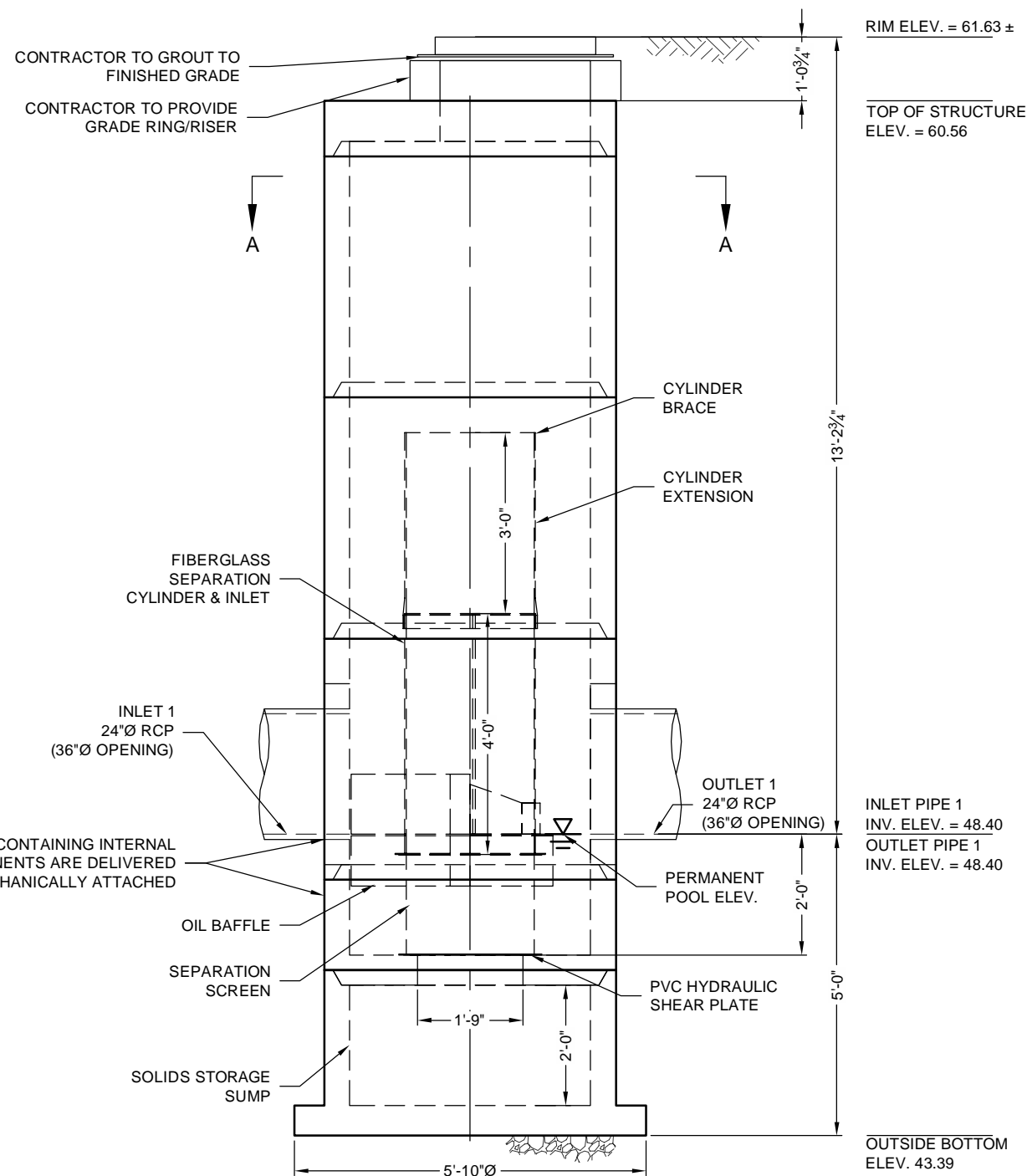
CDS UNIT SPECIFICATIONS



PLAN VIEW



SECTION A-A



RIM ELEV. = 61.63 ±

TOP OF STRUCTURE ELEV. = 60.56

INLET PIPE 1 INV. ELEV. = 48.40
OUTLET PIPE 1 INV. ELEV. = 48.40

OUTSIDE BOTTOM ELEV. = 43.39

MATERIAL LIST (PROVIDED BY CONTECH)

COUNT	DESCRIPTION	INSTALLED BY
1	FIBERGLASS INLET AND CYLINDER	CONTECH
1	2400 micron, 2' O.D. x 1.67' SEP. SCREEN	CONTECH
1	CYLINDER EXTENSION	CONTRACTOR
1	CYLINDER BRACE	CONTRACTOR
1	3/16 INCH PVC HYDRAULIC SHEAR PLATE *	CONTECH
1	SEALANT FOR JOINTS	CONTRACTOR
1	30"Ø x 4" FRAME & COVER, EJ#41600484, OR EQUIV.	CONTRACTOR

* SEE HYDRAULIC SHEAR PLATE DETAIL

SITE DESIGN DATA

WATER QUALITY FLOW RATE	0.7 CFS
ESTIMATED PEAK BYPASS FLOW RATE	35 CFS

GENERAL NOTES

- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
- CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
- STRUCTURE SHALL MEET AASHTO HS-20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2', AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
- IF REQUIRED, PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.
- CDS STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.

INSTALLATION NOTES

- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE.
- CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
- 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 ARE GROUTED.

STRUCTURE WEIGHT

APPROXIMATE HEAVIEST PICK = 5500 LBS.
STRUCTURE IS DELIVERED IN 5 PIECES

MAX FOOTPRINT = Ø5'-10"

CONTECH
CONTRACT
DRAWING

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MARK	DATE	REVISION DESCRIPTION	BY

CDS2015-4-C - 645106-10
CHASE BANK - PORTSMOUTH
PORTSMOUTH, NH
for SYSTEM: CDS

CONTECH
ENGINEERED SOLUTIONS LLC
www.ContechES.com
9025 Centra Pointe Dr., Suite 400, West Chester, OH 45381

CDS
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DATE:	04/06/20	SCALE:	3/8" = 1'-0"
DESIGNED:	PWV	DRAWN:	PWV
CHECKED:	###	APPROVED:	###
PROJECT No.:	645106	SEQUENCE No.:	10
SHEET:	1	OF	1

ARRO
LAYOUT 1E
2015-4-FGIS
5756 / 5756

I:\MERLIN\PROJECTS\CDS\2015-4-C\645106-10\CDS\DRAWINGS\645106-10\CDS2015-4-C\FAB.DWG 4/6/2020 9:54 AM

CDS[®] Inspection and Maintenance Guide



Maintenance

The CDS system should be inspected at regular intervals and maintained when necessary to ensure optimum performance. The rate at which the system collects pollutants will depend more heavily on site activities than the size of the unit. For example, unstable soils or heavy winter sanding will cause the grit chamber to fill more quickly but regular sweeping of paved surfaces will slow accumulation.

Inspection

Inspection is the key to effective maintenance and is easily performed. Pollutant transport and deposition may vary from year to year and regular inspections will help ensure that the system is cleaned out at the appropriate time. At a minimum, inspections should be performed twice per year (e.g. spring and fall) however more frequent inspections may be necessary in climates where winter sanding operations may lead to rapid accumulations, or in equipment washdown areas. Installations should also be inspected more frequently where excessive amounts of trash are expected.

The visual inspection should ascertain that the system components are in working order and that there are no blockages or obstructions in the inlet and separation screen. The inspection should also quantify the accumulation of hydrocarbons, trash, and sediment in the system. Measuring pollutant accumulation can be done with a calibrated dipstick, tape measure or other measuring instrument. If absorbent material is used for enhanced removal of hydrocarbons, the level of discoloration of the sorbent material should also be identified during inspection. It is useful and often required as part of an operating permit to keep a record of each inspection. A simple form for doing so is provided.

Access to the CDS unit is typically achieved through two manhole access covers. One opening allows for inspection and cleanout of the separation chamber (cylinder and screen) and isolated sump. The other allows for inspection and cleanout of sediment captured and retained outside the screen. For deep units, a single manhole access point would allow both sump cleanout and access outside the screen.

The CDS system should be cleaned when the level of sediment has reached 75% of capacity in the isolated sump or when an appreciable level of hydrocarbons and trash has accumulated. If absorbent material is used, it should be replaced when significant discoloration has occurred. Performance will not be impacted until 100% of the sump capacity is exceeded however it is recommended that the system be cleaned prior to that for easier removal of sediment. The level of sediment is easily determined by measuring from finished grade down to the top of the sediment pile. To avoid underestimating the level of sediment in the chamber, the measuring device must be lowered to the top of the sediment pile carefully. Particles at the top of the pile typically offer less resistance to the end of the rod than consolidated particles toward the bottom of the pile. Once this measurement is recorded, it should be compared to the as-built drawing for the unit to determine whether the height of the sediment pile off the bottom of the sump floor exceeds 75% of the total height of isolated sump.

Cleaning

Cleaning of a CDS system should be done during dry weather conditions when no flow is entering the system. The use of a vacuum truck is generally the most effective and convenient method of removing pollutants from the system. Simply remove the manhole covers and insert the vacuum hose into the sump. The system should be completely drained down and the sump fully evacuated of sediment. The area outside the screen should also be cleaned out if pollutant build-up exists in this area.

In installations where the risk of petroleum spills is small, liquid contaminants may not accumulate as quickly as sediment. However, the system should be cleaned out immediately in the event of an oil or gasoline spill should be cleaned out immediately. Motor oil and other hydrocarbons that accumulate on a more routine basis should be removed when an appreciable layer has been captured. To remove these pollutants, it may be preferable to use absorbent pads since they are usually less expensive to dispose than the oil/water emulsion that may be created by vacuuming the oily layer. Trash and debris can be netted out to separate it from the other pollutants. The screen should be power washed to ensure it is free of trash and debris.

Manhole covers should be securely seated following cleaning activities to prevent leakage of runoff into the system from above and also to ensure that proper safety precautions have been followed. Confined space entry procedures need to be followed if physical access is required. Disposal of all material removed from the CDS system should be done in accordance with local regulations. In many jurisdictions, disposal of the sediments may be handled in the same manner as the disposal of sediments removed from catch basins or deep sump manholes.



CDS Model	Diameter		Distance from Water Surface to Top of Sediment Pile		Sediment Storage Capacity	
	ft	m	ft	m	y ³	m ³
CDS1515	3	0.9	3.0	0.9	0.5	0.4
CDS2015	4	1.2	3.0	0.9	0.9	0.7
CDS2015	5	1.3	3.0	0.9	1.3	1.0
CDS2020	5	1.3	3.5	1.1	1.3	1.0
CDS2025	5	1.3	4.0	1.2	1.3	1.0
CDS3020	6	1.8	4.0	1.2	2.1	1.6
CDS3025	6	1.8	4.0	1.2	2.1	1.6
CDS3030	6	1.8	4.6	1.4	2.1	1.6
CDS3035	6	1.8	5.0	1.5	2.1	1.6
CDS4030	8	2.4	4.6	1.4	5.6	4.3
CDS4040	8	2.4	5.7	1.7	5.6	4.3
CDS4045	8	2.4	6.2	1.9	5.6	4.3
CDS5640	10	3.0	6.3	1.9	8.7	6.7
CDS5653	10	3.0	7.7	2.3	8.7	6.7
CDS5668	10	3.0	9.3	2.8	8.7	6.7
CDS5678	10	3.0	10.3	3.1	8.7	6.7

Table 1: CDS Maintenance Indicators and Sediment Storage Capacities



Support

- Drawings and specifications are available at www.contechstormwater.com.
- Site-specific design support is available from our engineers.

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CDS Inspection & Maintenance Log

CDS Model: _____ Location: _____

Date	Water depth to sediment ¹	Floatable Layer Thickness ²	Describe Maintenance Performed	Maintenance Personnel	Comments

1. The water depth to sediment is determined by taking two measurements with a stadia rod: one measurement from the manhole opening to the top of the sediment pile and the other from the manhole opening to the water surface. If the difference between these measurements is less than the values listed in table 1 the system should be cleaned out. **Note: to avoid underestimating the volume of sediment in the chamber, the measuring device must be carefully lowered to the top of the sediment pile.**
2. For optimum performance, the system should be cleaned out when the floating hydrocarbon layer accumulates to an appreciable thickness. In the event of an oil spill, the system should be cleaned immediately.

Traffic Generation Memo

Project Location

The project site is the location of the former Ruby Tuesday restaurant at 1574 Woodbury Avenue within the Durgin Square Plaza in Portsmouth, NH.

Project Description

The redevelopment proposes to raze the existing “Ruby Tuesday” restaurant and rebuild a Free-Standing Chase Bank branch office at the site. The Ruby Tuesday restaurant consists of 4,570 SF in area and 61 parking spaces are associated with this use. The proposed Chase Bank consists of 3270 SF in area with related remote ATM location(s) in drive-through configuration. The Chase project provides 22 parking spaces for walk-in customers and exceeds local parking requirements for this use.

Access to the parcel will be maintained through driveway openings at the rear of the parcel as part of internal drive aisles within the Durgin Square Plaza. Internal drive aisles from this plaza lead to driveways intersecting with Woodbury Avenue and Durgin Lane at signalized intersections.

Trip Generation

Estimates of the number of vehicle trips associated with the existing and proposed uses were prepared using the Institute of Traffic Engineers’ (ITE) publication , “*Trip Generation Manual*”, 10th Edition. This manual provides traffic generation information for various land uses based on traffic studies conducted by traffic engineering professionals nationwide, and is the standard reference for project trip generation studies.

For the pre-construction condition, Land Use Code 932 (High-Turnover Sit-Down Restaurant) was selected to establish the baseline for existing trips attributed to the use. These restaurants are described as moderately priced menus possibly part of a chain with seating by staff. Patrons are typically served by waitstaff and options may include a bar; or bar service.

For comparison with the post-construction condition, Land Use Code 912 (Drive-In Bank) is best-suited for the proposed use; described as providing service for both walk-in and drive-through customers. Based on the floor area of both these uses, the vehicle trips generated are compared in the Table below.

TRIP GENERATION COMPARISON

Trip Description	Existing Ruby Tuesday (1)	Proposed Chase Bank (2)	Net Difference
Weekday (Total Daily) <i>(50% enter, 50% exit)</i>	510	388	-122
Weekday am Peak Hour <i>(approx.)</i>	70 <i>(57% enter, 43% exit)</i>	50 <i>(53% enter, 47% exit)</i>	-20
Weekday pm Peak Hour <i>(approx.)</i>	80 <i>(52% enter, 48% exit)</i>	65 <i>(50% enter, 50% exit)</i>	-15
Saturday (Total) <i>(50% enter, 50% exit)</i>	580	250	-270

1 - ITE Land Use Code 932 (High Turnover Sit-Down Restaurant)

2 - ITE Land Use Code 912 (Drive-In Bank)

Conclusion

As depicted in the comparison table above, there is a net reduction in total trips per day; and reductions during both am and pm peak hours. The redevelopment will result in a positive impact on traffic generation at this site.