SITE PLAN LEGEND

EXISTING	PROPOSED	
		CENTERLINE/BASELINE CONSTRUCTION
	<i>P</i>	PROPERTY LINE
——————————————————————————————————————	R/W	- RIGHT OF WAY
		- EASEMENT
	TMP	TEMPORARY RIGHT OF WAY
		SWALE
1000	— — — 1000— — —	CONTOUR
<u>X"</u> STM	<u> </u>	STORM SEWER
X" SAN	<u> </u>	- SANITARY SEWER
<u>X"</u> <u>WTR</u> W	w ^x wtr	- WATER LINE
——— WS — ——	w	- WATER SERVICE
	G X" GAS	- GAS LINE
UGE	E	ELECTRIC LINE, UNDERGROUND
UGT	T	- TELEPHONE LINE, UNDERGROUND
FOC	FOC	- FIBER OPTIC LINE, UNDERGROUND
CATV		CABLE LINE, UNDERGROUND
		CATCH BASIN, MANHOLE
ter ter	₹¥ ¥	MANHOLE ADJUSTED TO GRADE HYDRANT, HYDRANT ASSEMBLY
$WV \bowtie GV \bowtie$	WV M	VALVE, WV=WATER VALVE GV=GAS VALVE
		METER, E=ELECTRIC, G=GAS, W=WATER
		ELECTRIC CABINET, PULL BOX, PEDESTAL, MANHOLE
		TELEPHONE MANHOLE, UTILITY MARKER
<i>∽</i> \$ \$ \$ \$ \$ \$ \$ \$		POWER POLE, TELEPHONE POLE, COMBINATION POLE, LIGHT POLE
IPFO	IPS •	IRON PIN/PIPE FOUND, IRON PIN SET
MON 🗖	MON 🗖	MONUMENT BOX
		SIGN
MB		MAILBOX
\$~~ \$		FLAG POLE, DECORATIVE/YARD LIGHT
	₹X; €	TREE, SHRUB LINE, TREE REMOVED, TREE LIMBED AND ROOT PRUNED
# 1000	-	BASEMENT ELEVATION

2016 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THESE PLAN BID DOCUMENTS SHALL GOVERN THIS IMPROVEMENT. FOR PURPOSES OF THIS PLAN, REFERENCES TO DIRECTOR OR ENGINEER SHALL BE CONSTRUED TO MEAN THE CITY ENGINEER AND/OR HIS REPRESENTATIVES.

HUDSON DOWNTOWN PHASE 2A

PRIVATE DEVELOPMENT SUMMIT COUNTY, OHIO Testa Companies Project ISSUED: APRIL 25, 2019



GENERAL NOTES	C10
EXISTING CONDITIONS	
GRADING PLAN	C300-C30
SWPP PLAN	C400-C40
LAYOUT/UTILITY PLAN	C500-C50
CONSTRUCTION DETAILS	C600-C60
LANDSCAPE PLAN	С700-С70
APPROVALS:	
APPROVALS:	
APPROVALS:	Date
	Date



REVISED:

PROJ. NUMBE
DESIGNED BY
DRAWN BY:
FILE NO.

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

PLANS PREPARED AND RECOMMENDED BY:



HQ 450 GRANT ST., AKRON, OH 44311 P 330.375.1390 / TF 800.835.1390 W ENVDESIGNGROUP.COM

SET NO. _____

R	17-00257-020		SHEET
_	RJW NLM	TITLE	TITLE
ZT	ITL 17-00257-020.dwg		

ALL ITEM NUMBERS REFER TO THE 2016 STATE OF OHIO, DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS. ALL EQUIPMENT, MATERIAL AND WORKMANSHIP SHALL BE PERFORMED ACCORDING TO THESE SPECIFICATIONS AND THE REFERENCED OHIO DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS NOTED ON THE TITLE SHEET.

MATERIAL STORAGE/EQUIPMENT STORAGE

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE APPROPRIATE EQUIPMENT AND MATERIAL STORAGE AREA TO SUIT HIS NEEDS.

MATERIAL TESTING AND PERMITS

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL MATERIAL TESTING. MATERIAL TESTING IS REQUIRED FOR ASPHALT, CONCRETE, AND AGGREGATES FOR TRENCH BEDDING AND BACKFILL.
- 2. THE CONTRACTOR SHALL INCLUDE IN THE PRICE BID FOR THE NEW PIPE AND FOR TRENCHES WHERE PIPE(S) ARE REMOVED THE COST FOR COMPACTION TESTING OF THE BACKFILL IN ALL TRENCHES. COMPACTION RATES ARE 98% OF THE MAXIMUM DRY DENSITY PER AASHTO T-99 FOR THE VARIOUS LIFTS OF TRENCH BACKFILL AND THEY SHALL BE VERIFIED IN THE FIELD AS CONSTRUCTION PROGRESSES. THE CONTRACTOR WILL PAY FOR THE SERVICES OF AN INDEPENDENT QUALIFIED GEOTECHNICAL ENGINEER TO COMPLETE THIS WORK. THE GEOTECHNICAL ENGINEER SHALL RUN PROCTOR TESTS FOR THE BACKFILL MATERIAL AND BE ON-SITE FULL TIME TO VERIFY THE SPECIFIED COMPACTION RATES. COSTS FOR THIS WORK WILL BE INCLUDED IN THE PRICE OF THE ITEM TO WHICH IT RELATES.
- ALL NEW WATERLINES MUST PASS A PRESSURE TEST AND DISINFECTION TEST IN ACCORDANCE WITH AWWA-C600 AND AWWA-C651, RESPECTIVELY, PRIOR TO CONNECTING THE NEW WATERLINE TO THE EXISTING SYSTEM. COSTS SHALL BE INCLUDED IN THE PRICE BID FOR THE NEW WATERLINE.
- 4. THE EXECUTED PROJECT CONTRACT SHALL SERVE TO FULFILL THE CITY OF HUDSON PERMITTING REQUIREMENTS.

UNDERGROUND UTILITIES

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.6 ORC.

COUNTY OF SUMMIT DEPT. OF

WINDSTREAM COMMUNICATIONS

SANITARY SEWER SERVICES 1180 S MAIN ST #201

AKRON, OH 44301

100 OWEN BROWN ST,

LEVEL 3 COMMUNICATIONS

HUDSON, OH 44236

4000 CHESTER AVE.

WARREN, OH 44483

ATTN: ROD HARRIS

AKRON. OH 44313

ATTN: DAVID MILLER

(330) 436-4055

120 RAVINE ST

AKRON. OH 44303

(330) 253-8267

1910 W MARKET ST, BLDG 1

(330) 841–1404

FIRST ENERGY

CLEVELAND, OH 44103

(330)650-8404

(216) 426-6010

CENTURYLINK

3801 ELM RD

(330)926-2400

UTILITY OWNERSHIP

THE FOLLOWING UTILITIES AND OWNERS ARE LOCATED WITHIN THE WORK LIMITS OF THE PROJECT:

CITY OF HUDSON ENGINEERING DEP1 51 S. MAIN ST. #3 HUDSON, OH 44236 (330) 342–1770

CITY OF HUDSON PUBLIC WORKS DIVISION 1769 GEORGETOWN RD (330) 342–1750

HUDSON PUBLIC POWER 27 E. MAIN ST HUDSON, OH 44236 (330) 342–1750

DOMINION EAST OHIO 320 SPRINGSIDE DRIVE, SUITE 320 AKRON, OH 44333 (330) 664-2409 ATTN: BRYAN DAYTON

SPECTRUM 1200 BROWNSTONE AVE AKRON, OH 44310 (330) 633-9203

SUMMIT PETROLEUM INC. 885 HERRICK RD TWINSBURG, OH 44087 (330) 487-6922 - STEVE WILLIAMS

WORK HOURS

NO NIGHT WORK BETWEEN THE HOURS OF 7:00 P.M. TO 7:00 A.M. SHALL BE PERMITTED UNLESS OTHERWISE SPECIFICALLY APPROVED BY THE ENGINEER AND THE CITY OF HUDSON.

CONSTRUCTION SEQUENCE

THE CONTRACTOR SHALL ENGAGE IN THE CONSTRUCTION OF THE PROJECT SUCH THAT ADEQUATE ACCESS TO THE RESIDENCES AND ALL BUSINESSES IS MAINTAINED AT ALL TIMES. INCLUDE COSTS IN THE PRICE BID FOR MAINTENANCE OF TRAFFIC. ONCE THE CONTRACTOR IS ENGAGED IN THE PROJECT, WORK SHALL BE CONTINUOUS USING FULL CREWS.

REMOVAL OF DEBRIS AND SITE CLEANUP

THE PROJECT SITE MUST BE KEPT FREE OF CONSTRUCTION DEBRIS, TRASH, PAPER AND OTHER WASTE ITEMS. COLLECT AND REMOVE THESE ITEMS AT THE END OR EACH WORK DAY.

DUST NUISANCE ORIGINATION

DUST PRODUCED FROM ANY OPERATIONS INSIDE OR OUTSIDE THE RIGHT-OF-WAY SHALL BE CONTROLLED BY THE CONTRACTOR IN ACCORDANCE WITH ITEM 616. WATER AND/OR CALCIUM CHLORIDE SHALL NOT BE APPLIED UNLESS ORDERED BY THE ENGINEER.

PAVEMENT SWEEPING

AS REQUIRED DURING THE COURSE OF EACH WORK DAY, THE CONTRACTOR SHALL SWEEP ALL PAVED AREAS AFFECTED BY THE DAY'S WORK. PAVEMENT SHALL BE SCRAPED AND SWEPT TO REMOVE ALL DIRT, MUD AND DEBRIS. INCLUDE THE COST OF THIS WORK IN THE PRICE BID FOR THE EXCAVATION.

CLEARING AND GRUBBING

ALL TREES, STUMPS, ROOTS, SHRUBS AND DEBRIS REMOVED SHALL BE DISPOSED OF BY THE CONTRACTOR OFF SITE AT A LOCATION LICENSED TO ACCEPT SUCH MATERIAL. REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS OR AS NOTED ON THE DRAWINGS SHALL BE PAID FOR UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. FOR TREES, REMOVAL INCLUDES THE ROOT MASS. NO ROOT MASS IS PERMITTED WITHIN THE FOOTPRINT OF ANY PAVEMENT (ASPHALT, CONCRETE, AGGREGATE).

CLEARING AND GRUBBING - TREE, LIMB AND ROOT PRUNING

THE DECISION TO PRUNE TREES DESIGNATED ON THE PLAN SHALL BE MADE BY THE OWNER AT THE TIME OF CONSTRUCTION. THE OWNER AND CONTRACTOR SHALL CONDUCT A FIELD REVIEW PRIOR TO BEGINNING WORK. THE PLANS DO NOT ALWAYS ACCURATELY REPRESENT THE TREE CANOPY. PRIOR TO BIDDING ON THIS PROJECT, THE CONTRACTOR SHALL MAKE A SITE VISIT TO ASSESS THE EXTENT OF THIS WORK. IF AN EXISTING TREE THAT IS DESIGNATED TO BE TRIMMED IS OUTSIDE OF THE RIGHT-OF-WAY LIMITS, THE PROPERTY OWNER SHALL BE NOTIFIED PRIOR TO PRUNING THE TREE. A PROFESSIONAL TREE TRIMMER SHALL PERFORM THIS WORK IN ACCORDANCE WITH ODOT ITEM 201.03. WHERE LIMBS ARE PRUNED WITHIN THE LIMITS OF EARTHWORK, PIPE/STORM STRUCTURE INSTALLATION, OR PAVEMENT INSTALLATION, THE ROOTS SHALL ALSO BE PROFESSIONALLY PRUNED. PAYMENT SHALL BE MADE PER EACH TREE PRUNED WHETHER BRANCHES AND/OR ROOTS ARE TRIMMED.

PROTECTION AND RESTORATION OF PROPERTY 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL PUBLIC AND PRIVATE PROPERTY.

- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE OR INJURY TO PROPERTY OF ANY CHARACTER. DURING THE EXECUTION OF THE WORK. RESULTING FROM ANY ACT. OMISSION, NEGLECT, OR MISCONDUCT OF HIS MANNER OR METHOD OF EXECUTING THE WORK, OR AT ANY TIME DUE TO DEFECTIVE WORK OR MATERIALS, AND SAID RESPONSIBILITY WILL NOT BE RELEASED UNTIL THE PROJECT SHALL HAVE BEEN COMPLETED AND ACCEPTED.
- WHEN OR WHERE ANY DIRECT OR INDIRECT DAMAGE OR INJURY OCCURS TO PUBLIC OR PRIVATE PROPERTY BY OR ON ACCOUNT OF ANY ACT. OMISSION, NEGLECT, OR MISCONDUCT IN THE EXECUTION OF THE WORK. OR IN CONSEQUENCE OF THE NON-EXECUTION THEREOF BY THE CONTRACTOR, HE SHALL RESTORE, AT HIS OWN EXPENSE, SUCH PROPERTY TO A CONDITION SIMILAR OR EQUAL TO THAT EXISTING BEFORE SUCH DAMAGE OR INJURY WAS DONE. BY REPAIRING, REBUILDING OR OTHERWISE RESTORING AS MAY BE DIRECTED, OR SHALL MAKE GOOD SUCH DAMAGE OR INJURY IN AN ACCEPTABLE MANNER.
- WHEN SIGNS AND SUPPORTS INTERFERE WITH CONSTRUCTION, THE CONTRACTOR SHALL REMOVE AND ERECT THEM IN A TEMPORARY LOCATION DURING CONSTRUCTION IN A MANNER SATISFACTORY TO AND AS DIRECTED BY THE ENGINEER. AFTER COMPLETION OF THE CONSTRUCTION AND BEFORE FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL ERECT THE SIGNS AND SUPPORTS IN THEIR ORIGINAL LOCATION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

REMOVAL OF EXISTING STRUCTURES

1. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING PIPES, CATCH BASINS, YARD DRAINS, CONCRETE DRAINAGE CHANNELS, GUARDRAILS, LANDSCAPE TIMBERS, AND OTHER ITEMS WITHIN THE LIMITS OF WORK THAT WILL BE ABANDONED OR OTHERWISE NOT USED AS PART OF THE ROADWAY AND STORM SEWER IMPROVEMENTS. ABANDONING PIPES IN PLACE OR FILLING THEM WITH GROUT IS NOT ACCEPTABLE, UNLESS AUTHORIZED BY THE ENGINEER. THE PROPERTY OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FOR ALL LANDSCAPE ITEMS REMOVED.

2. ALL ITEMS REMOVED SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR STRUCTURES REMOVED, EXCEPT FOR REMOVAL ITEMS NOTED SEPARATELY. INCLUDE IN PIPE REMOVAL AND CATCH BASIN REMOVAL THE COST OF TRENCH BACKFILL AND COMPACTION. BACKFILL MATERIAL IN TRENCHES UNDER OR WITHIN 3 FEET OF NEW OR EXISTING PAVEMENT SHALL BE TYPE 1 STRUCTURAL BACKFILL PER ODOT ITEM 703.11. BACKFILL MATERIAL ALL OTHER AREAS SHALL BE SUITABLE NATIVE MATERIAL. THERE IS NO SEPARATE PAY ITEM FOR ROADWAY OR DRIVEWAY PAVEMENT REMOVED WHICH IS INCLUDED IN THE EXCAVATION VOLUME.

SIGNS AND POSTS REMOVED

THE CITY OF HUDSON SHALL HAVE FIRST REFUSAL OF ALL SIGNS AND POSTS REMOVED.

MAILBOX RESTORATION

- 1. ALL SUPPORTS FOR MAILBOXES SHALL BE OF THE "BREAKAWAY" TYPE AND AS PER O.D.O.T. DIRECTIVE DH-0-103, MAILBOX SUPPORTS SHALL NOT EXCEED THE MAXIMUM BELOW: A. MAXIMUM 4"x 4" TIMBER
- B. MAXIMUM 2-1/2" DIAMETER STANDARD WALL PIPE
- 2. ALL EXISTING MAILBOX SUPPORTS THAT DO NOT CONFORM TO A. B OR C ABOVE. OR WHEN REQUIRED BY THE ENGINEER, SHALL BE REMOVED AND REPLACED AS PER O.D.O.T. SPECIFICATION 107.10 WITH COST INCLUDED IN THE PRICE BID FOR ITEM SPECIAL 107.10 MAIL BOX AND SUPPORT. A NEW MAILBOX SHALL BE INCLUDED. MAIL BOX SHALL BE PVC WITH INTEGRAL PVC POST COVERING. FRONT AND REAR ACCESS DOORS AND COLORED GRAY OR TAN. PROVIDE "MAILMASTER DELUXE" MAIL BOX BY STEP 2, OR EQUAL. POST SHALL BE 4"x4" NOMINAL SIZE TREATED SOUTHERN YELLOW PINE, POST SHALL BE BURIED TO A DEPTH OF 36 INCHES. HEIGHT AND LOCATION OF MAILBOX SHALL BE AS REQUIRED BY THE POSTMASTER. PROVIDE AND INSTALL ADDRESS NUMBERS ON THE NEW MAILBOXES.
- 3. EXISTING MAIL BOXES AND PAPER BOXES SHALL BE TEMPORARILY RELOCATED AS REQUIRED FOR THE CONSTRUCTION TO A LOCATION APPROVED BY THE POSTMASTER, AND REPLACED OR REINSTALLED UPON COMPLETION OF THE WORK TO THE ORIGINAL LOCATION OR NEW LOCATION AS APPROVED BY THE POSTMASTER. INCLUDE ALL COSTS IN THE PRICE BID FOR THE PROPOSED MAIL BOX AND SUPPORT. PAYMENT FOR RELOCATING/REINSTALLING EXISTING MAIL BOXES AND SUPPORTS IS INCLUDED IN MOBILIZATION.

TOPSOIL

EXISTING TOPSOIL SHALL BE STRIPPED AND STOCKPILED ON SITE IN AN APPROVED LOCATION. THE AREA TO BE STRIPPED SHALL INCLUDE THE AREA WHERE THE PROPOSED WORK WILL BE LOCATED. UPON COMPLETION OF THE WORK. THE STOCKPILED TOPSOIL WILL BE EVENLY DISTRIBUTED OVER THE DISTURBED WORK AREA IN A UNIFORM THICKNESS OF AT LEAST 4 INCHES. STOCKPILED TOPSOIL IN EXCESS OF THE AMOUNT NEEDED FOR THE ABOVE NOTED WORK WILL BE WASTED AT A DISPOSAL AREA AS DETERMINED BY THE CITY OF HUDSON.

EXCAVATION / TOPSOIL STOCKPILE

EXCESS EXCAVATION AND TOPSOIL WILL BE STOCKPILED ON SITE. THE EXACT LOCATION WILL BE DETERMINED BY THE OWNER. A CONSTRUCTION ACCESS DRIVE IS REQUIRED ALONG WITH A SILT FENCE FOR SEDIMENT CONTROL. SEEDING AND MULCHING ARE ALSO REQUIRED. THE STOCKPILES SHALL BE GRADED SMOOTH AND COMPACTED TO 90% DENSITY.

PAVEMENT MIX DESIGN AND PAVING TABLE

FOR PAVING ITEMS. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A DESIGN MIX FOR REVIEW AND APPROVAL PRIOR TO THE PRE-CONSTRUCTION MEETING. ALL MATERIALS USED MUST BE OBTAINED FROM A SOURCE APPROVED BY THE OHIO DEPARTMENT OF TRANSPORTATION.

PRIOR TO PAVING, THE CONTRACTOR WILL PROVIDE A PAVING TABLE FOR EACH LIFT OF ASPHALT TO THE RESIDENT PROJECT REPRESENTATIVE. THE TABLE WILL INDICATE THE ANTICIPATED TONNAGE OF THE ASPHALT AT 100 FOOT STATIONS, BASED ON THE CONTRACTOR'S PAVING PLAN.

ASPHALT TESTING

- 1. QUALITY CONTROL AND ACCEPTANCE TEST REQUIREMENTS SHALL BE AS DESCRIBED IN ITEMS 403, 441, AND 448 WITH THE FOLLOWING MODIFICATIONS.
- 2. THE CONTRACTOR WILL SUBMIT A COPY OF HIS ODOT APPROVED QCP AND ASPHALT MIX DESIGN TO THE ENGINEER AT LEAST TWO WEEKS PRIOR TO BEGINNING ANY PAVING. FOR ITEM 448, MIX DESIGN SHALL BE TYPE 2 M FOR INTERMEDIATE COURSE AND TYPE 1 M FOR SURFACE COURSE. STANDARD RAP LIMITS WILL BE USED. NO SLAG IS PERMITTED IN ANY OF THE ASPHALT MIXES.
- 3. RESULTS OF THE CONTRACTOR'S IN PLACE FIELD DENSITY MEASUREMENTS SHALL BE PROVIDED TO THE ENGINEER AT THE END OF EACH DAYS PAVING, ALONG WITH ASPHALT DELIVERY TICKETS. THE CONTRACTOR SHALL MEASURE AND RECORD ASPHALT SURFACE TEMPERATURE ALONG WITH THE FIELD DENSITY MEASUREMENTS, AND PROVIDE COPIES TO THE ENGINEER AT THE END OF EACH DAYS PAVING.
- 4. QUALITY CONTROL TESTING AND VERIFICATION ACCEPTANCE TESTING IS REQUIRED FOR ITEMS 301 AND 441. THE CITY OF HUDSON WILL UTILIZE AN INDEPENDENT LABORATORY FOR THE DOT'S RESPONSIBILITIES LISTED IN THE SPECIFICATIONS. THE CONTRACTOR WILL COORDINATE WITH THE INDEPENDENT LAB'S REPRESENTATIVE. REPORTS WILL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER THE DAY AFTER EACH DAY OF PAVING.
- 5. FOR CHECKING SURFACE TOLERANCES ON THE INTERMEDIATE AND SURFACE COURSES, THE CONTRACTOR WILL PROVIDE EQUIPMENT DESCRIBED IN ITEM 401.19, FOR USE BY THE CITY'S FIELD REPRESENTATIVE. TO ASSIST IN THIS PROCESS, THE CONTRACTOR WILL PROVIDE ONE WORKMAN TO MOVE THE STRAIGHT EDGE AND PERFORM OTHER TASKS WHILE THE FIELD REP CHECKS THE TOLERANCES.

C. ANY MATERIAL WITH THE EQUAL BREAKAWAY CHARACTERISTICS OF THE ABOVE.

CONCRETE TESTING

- 1. ALL CONCRETE USED ON THE PROJECT SHALL BE TESTED. THIS INCLUDES CONCRETE FOR ROADS, CURB, DRIVEWAYS, THRUST BLOCKING, FILL INSIDE CATCH BASINS, AND FOR ANY OTHER PURPOSE ON THE PROJECT. A MIX DESIGN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL, PRIOR TO BEGINNING WORK. A TICKET FOR EACH LOAD DELIVERED TO THE PROJECT SHALL BE PROVIDED TO THE FIELD REPRESENTATIVE. TICKET SHALL INCLUDE ALL INFORMATION REQUIRED IN ODOT 499.08. CONCRETE SHALL BE TESTED FOR AIR, SLUMP, AND COMPRESSIVE STRENGTH. EACH LOAD SHALL BE CHECKED FOR AIR AND SLUMP. FOUR (4) TEST SPECIMENS WILL BE MADE FROM EVERY THIRD TRUCK STARTING WITH THE FIRST TRUCK EACH DAY THAT CONCRETE IS DELIVERED TO THE JOBSITE AND/OR EACH TIME THE MIX IS CHANGED. TEST ONE CYLINDER AT 7 DAYS AND ONE AT 28 DAYS, TWO ARE SPARES. SUBMIT A COPY OF EACH REPORT TO THE ENGINEER IMMEDIATELY AFTER THE TEST IS CONDUCTED. ALL TEST REPORTS FOR THE MONTH MUST BE SUBMITTED BY THE TIME OF THE CONTRACTOR'S PAY REQUEST SUBMITTAL, OR THE SUBMITTAL WILL BE CONSIDERED INCOMPLETE AND WILL BE RETURNED TO THE CONTRACTOR.
- 2. NOTE THAT FOR DRIVEWAYS, A CONCRETE BEAM SHALL ALSO BE MADE AND TESTED FOR EACH DAY'S POUR.

DRIVEWAY RECONSTRUCTION

- 1. INSTALL NEW APRONS AND RECONSTRUCT DRIVEWAYS TO THE RIGHT-OF-WAY OR AS NOTED IN THE DRAWINGS. NEW CONCRETE AND/OR GRAVEL APRONS AND PORTIONS OF CONCRETE DRIVES SHALL BE MADE USING 3" THICK ITEM 304 AGGREGATE BASE, AND ITEM 451 REINFORCED CONCRETE PAVEMENT (6" THICK FOR RESIDENTIAL AND 8" THICK FOR COMMERCIAL). REINFORCING SHALL BE 6"x6" WIRE FABRIC PER ITEM 709.10. ASPHALT AND/OR GRAVEL APRONS AND PORTIONS OF ASPHALT DRIVES NOTED FOR REPLACEMENT SHALL BE MADE USING 3" THICK ITEM 304 AGGREGATE BASE, ITEM 301 ASPHALT CONCRETE BASE (3)/" THICK FOR RESIDENTIAL AND 5" THICK FOR COMMERCIAL), TACK COAT AT 0.1 GAL/SY, AND 1¹/₄" THICK ITEM 448 TYPE I ASPHALT CONCRETE SURFACE COURSE. PORTIONS OF GRAVEL DRIVES NOTED FOR REPLACEMENT SHALL BE 8" THICK ITEM 304 AGGREGATE BASE (RESIDENTIAL) OR 10" THICK ITEM 304 AGGREGATE BASE (COMMERCIAL). DIMENSIONS SHALL BE AS SHOWN ON THE DRAWINGS.
- DRIVEWAYS DISTURBED BEYOND THE LIMITS OF THE BACK OF WALK SHALL BE RECONSTRUCTED USING THE SAME TYPE OF MATERIAL AS THE EXISTING. CONCRETE FOR RECONSTRUCTION SHALL BE AS NOTED ABOVE. ASPHALT DRIVEWAYS SHALL BE CONSTRUCTED OF 4" THICK OF ITEM 301 ASPHALT CONCRETE BASE, 3" THICK OF ITEM 304 AGGREGATE BASE AND 2" THICK OF ITEM 448 ASPHALT CONCRETE SURFACE COURSE. GRAVEL DRIVES SHALL BE 4" THICK STONE TO MATCH EXISTING TYPE FOR EACH AGGREGATE DRIVEWAY.
- 3. THE CONTRACTOR SHALL COORDINATE WITH THE VARIOUS RESIDENTS TO MINIMIZE THE INCONVENIENCE WITH NEW DRIVEWAYS AND APRONS INSTALLED. POUR DRIVEWAYS ONE-HALF WIDTH AT A TIME OR MAKE OTHER ARRANGEMENTS WITH THE PROPERTY OWNERS THAT ARE ACCEPTABLE TO THEM.
- ALL CONCRETE SHALL BE CLASS QC-1. REOPEN DRIVE 24 HOURS AFTER POURING. MAKE AND BREAK ONE BEAM FOR EACH DAYS POUR. INCLUDE COSTS IN PRICE BID FOR CONCRETE.

AGGREGATE FOR TEMPORARY DRIVEWAYS

THE CONTRACTOR SHALL PROVIDE A TEMPORARY DRIVE IMMEDIATELY FOLLOWING REMOVAL OF THE DRIVE. TEMPORARY DRIVES SHALL BE CONSTRUCTED OF <<< >>> OR AS OTHERWISE PROVIDED BY THE CONTRACTOR. THIS WILL BE CONSIDERED AS PART OF <<< >>> AND THERE WILL BE NO SEPARATE PAY ITEM.

SUBGRADE REPAIR

THE CONTRACTOR IS OBLIGATED TO DISK AND DRY WET SUBGRADE SOILS AS DESCRIBED UNDER ITEM 203.07. ALLOW TIME IN THE CONSTRUCTION SCHEDULE FOR THIS OPERATION. THIS WORK IS CONSIDERED INCIDENTAL TO EARTHWORK AND THERE WILL BE NO ADDITIONAL PAYMENT HOWEVER, AREAS OF EXTREMELY WET OR UNSUITABLE MATERIAL ENCOUNTERED DURING EXCAVATION OR PROOF ROLLING OPERATIONS SHALL BE ADDRESSED AS FOLLOWS:

- 1. THE CONTRACTOR SHALL CONDUCT THIS OPERATION UNDER THE SUPERVISION OF THE CITY OF HUDSON REPRESENTATIVE WHO SHALL THEN DETERMINE WHAT AREAS WILL REQUIRE ADDITIONAL DRYING AND COMPACTION OR BE DEEMED UNSUITABLE AND EXCAVATED AND REPLACED WITH SUITABLE MATERIAL FROM ONSITE OR OFFSITE. WHEN ORDERED BY THE ENGINEER, SUBGRADE REPAIR SHALL BE PERFORMED. THIS INCLUDES REMOVAL OF EXISTING MATERIAL TO 18" DEEP, INSTALLATION OF TYPE 'D' GEOTEXTILE FABRIC (ODOT ITEM 712.09), AND 18" OF NO. 1 AND NO. 2 STONE TOPPED WITH 2" OF ITEM 304 GRAVEL, THOROUGHLY COMPACTED IN PLACE.
- 2. ONCE THE AREAS HAVE BEEN REPAIRED, THE CONTRACTOR SHALL CONDUCT ANOTHER PROOF ROLL OF THESE AREAS UNDER THE SUPERVISION OF THE CITY OF HUDSON REPRESENTATIVE TO ENSURE ALL UNSTABLE/UNSUITABLE AREAS HAVE BEEN CORRECTED. NO BASE MATERIAL SHALL BE PLACED FOR ROADWAY CONSTRUCTION UNTIL THE CITY OF HUDSON REPRESENTATIVE HAS ISSUED APPROVAL OF THE SUBGRADE FOR THE ENTIRE ROADWAY TO BE PAVED. THE CONTRACTOR SHALL ONLY PERFORM THE SUBGRADE REPAIR UNDER THE DIRECTION OF THE ENGINEER.
- PAVEMENT RESTORATION FOR PIPE INSTALLATION 1. INSTALL ASPHALT BASE TO THE SURFACE OF EXISTING PAVEMENT FOR PIPE TRENCHES LOCATED WITHIN EXISTING PAVEMENT.
- 2. ITEM 301, ASPHALT CONCRETE BASE THICKNESS SHALL BE 6 INCHES AND THE PAVEMENT WIDTH SHALL INCLUDE THE TRENCH WIDTH PLUS TWO FEET ON EACH SIDE OF THE TRENCH.
- 3. PROVIDE MATERIALS OUTSIDE THE LIMITS STATED ABOVE AT NO ADDITIONAL COST.

STORM SEWER

- 1. STORM SEWER PIPE SHALL BE CORRUGATED POLYETHYLENE PIPE WITH A SMOOTH INTERIOR LINER, ITEM 707.33, WITH GASKET JOINTS, OR SDR35.
- ALL STORM SEWER LENGTHS SHOWN ON THE DRAWINGS ARE HORIZONTAL DISTANCES MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
- 3. BEDDING SHALL BE CLASS B PER ITEM 603.04 EXCEPT THAT SLAG AND CRUSHED CONCRETE IS NOT PERMITTED. BEDDING SHALL EXTEND FROM 6" BELOW THE BOTTOM OF PIPE TO 12"ABOVE THE THE TOP OF PIPE (FOR POLYETHYLENE PIPE). BACKFILL SHALL BE TYPE 1 STRUCTURAL BACKFILL PER ITEM 703.11 WHERE STORM SEWER IS PLACED BELOW AND/OR BEHIND CURB, PAVEMENT AND/OR DRIVES, OR WHEN THE EDGE OF THE TRENCH IS WITHIN 3 FEET OF SUCH. BACKFILL SHALL BE SUITABLE NATIVE MATERIAL WHERE STORM SEWER IS PLACED BELOW ROADSIDE DITCHES.
- 4. ROOF DRAINS, FOUNDATION DRAINS AND SEPTIC DRAINS SHALL BE PVC, ASTM D-3034, SDR 35. BEDDING SHALL BE TYPE 2 PER ITEM 603.06 AND BACKFILL SHALL BE NATIVE MATERIAL COMPACTED PER ITEM 603.10, SECTION D.
- 5. ALL BACKFILL IN TRENCHES SHALL BE PLACED IN 6" LIFTS AND COMPACTED USING MECHANICAL TAMPERS. COMPACTION RATES SHALL BE PER ITEM 603.11.

UNDERDRAIN AT ALL OUTLETS.

MANHOLE LIDS IN PAVEMENT MANHOLE LIDS MUSH BE SET TO THE PAVEMENT CROSS SLOPE. GRADE RING SHALL HAVE VARIABLE THICKNESS TO ACHIEVE THE REQUIRED CROSS SLOPE ACROSS THE LID.

MANHOLES, CATCH BASINS AND INLETS REMOVED ALL CASTINGS SHALL BE CAREFULLY REMOVED AND STORED WITHIN THE RIGHT OF WAY FOR SALVAGE BY THE CITY OF HUDSON. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR PERTINENT 202 ITEM.

- HOUSE CONNECTION

SANITARY SEWERS

- SUBMITTED TO THE OWNER.

- CONTRACTOR.
- WITH APPROVED PLANS.

- CONFORM TO ASTM C-443.

- MAINTAINED.
- MANHOLE.
- SANITARY SEWER.
- RESPECTIVE ITEMS.
- INSIDE DIAMETER.

6. STORM SEWER INSTALLATION SHALL INCLUDE: EXCAVATING FOR PIPE AND FOUNDATIONS FOR SAME, INCLUDING CLEARING AND GRUBBING AND THE REMOVAL OF ALL MATERIALS NECESSARY FOR PLACING THE PIPE EXCEPT REMOVALS LISTED SEPARATELY; FURNISHING AND PLACING OF BEDDING AND BACKFILL AS REQUIRED; CONSTRUCTING AND SUBSEQUENTLY REMOVING ALL NECESSARY COFFERDAMS, CRIBS AND SHEETING; PUMPING AND DEWATERING; SEALING OR BANDING ALL PIPE JOINTS WHERE REQUIRED; FURNISHING AND INSTALLING ALL NECESSARY PIPE BENDS AND BRANCHES OF A TYPE AT LEAST EQUAL TO THE CONDUIT OF WHICH THEY BECOME A PART; JOINING TO THE EXISTING AND PROPOSED APPURTENANCES AS REQUIRED: CORE DRILLING EXISTING STRUCTURES FOR CONNECTING TO NEW STORM SEWERS; PERFORMING LEAKAGE TESTS AS SPECIFIED; RESTORATION OF DISTURBED FACILITIES AND SURFACES; AND PROVIDING EROSION CONTROL PADS AND ANIMAL GUARDS ON

1. EXISTING ROOF DRAINS & YARD DRAINS DISTURBED BY THE PROPOSED WORK SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS BY CONNECTION TO STORM SEWER MANHOLE, CATCH BASIN. OR AS DIRECTED BY THE ENGINEER. PROVIDE FITTINGS AND CONNECTORS AS REQUIRED FOR ALL CONNECTIONS. THE COST OF WHICH WILL BE INCLUDED IN THE PRICE BID FOR PIPE. CONNECTIONS TO STORM SEWERS SHALL BE MADE USING MANUFACTURED FITTINGS SUCH AS KOR-N-TEE CONNECTORS, OR EQUAL. A CLEAN OUT SHALL ALSO BE PROVIDED.

2. THE LOCATION, TYPE, SIZE AND GRADE OF REQUIRED REPLACEMENTS WILL BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION. QUANTITIES OF 4" AND 6" CONDUIT HAVE BEEN INCLUDED IN THE BID SCHEDULE FOR RECONNECTING EXISTING DRAINS. THESE ITEM SHALL NOT BE ORDERED UNTIL AUTHORIZED BY THE ENGINEER.

ROOF DRAINS, FOUNDATION DRAINS AND OTHER CLEAN WATER DRAINS SHALL NOT BE CONNECTED TO OR ALLOWED TO FLOW INTO THE SANITARY SEWERS.

2. ALL SANITARY SEWERS SHALL PASS THE AIR ACCEPTANCE TEST AND MANDREL TEST PRIOR TO ACCEPTANCE BY THE OWNER. COPY OF THE AIR TEST SHALL BE

3. ALL SANITARY SEWERS SHALL BE COLOR-FILMED BY THE CONTRACTOR AND FOUND TO BE FREE OF DEFECTS AND FOREIGN MATTER AND TO BE OF PROPER ALIGNMENT PRIOR TO FORMAL ACCEPTANCE BY THE OWNER. A COPY OF THE TAPE SHALL BE SUBMITTED TO THE OWNER.

4. ALL SANITARY SEWERS SHALL PASS THE DEFLECTION TEST FOR FLEXIBLE AND SEMI-RIGID PIPE AS A CONDITION OF ACCEPTANCE. DEFLECTION TESTING SHALL BE PERFORMED ON ALL FLEXIBLE PIPE IN ACCORDANCE WITH THE TEN STATES STANDARDS, SECTION 33.85 AND ASTM D-2412.

5. ALL COSTS OF TESTING OF SANITARY SEWER SHALL BE BORNE BY THE

6. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING SEWERAGE SYSTEM RESULTING FROM NEGLIGENCE OR NON-CONFORMANCE

7. ALL SANITARY SEWER LATERALS SHALL BE LAID AT NOT LESS THAN 1.5% GRADE.

8. ALL MANHOLES SHALL BE SUPPLIED WITH SOLID LIDS AND CHIMNEY SEALS.

9. WHERE INLET AND OUTLET PIPES CONNECT TO MANHOLES A FLEXIBLE WATERTIGHT JOINT IS REQUIRED.

10. SANITARY SEWER MATERIALS SHALL CONSIST OF PVC PIPE, SDR35 MEETING A.S.T.M. D-3034 WITH JOINTS CONFORMING TO A.S.T.M. D-3212. BEDDING SHALL CONFORM TO A.S.T.M. D-2321. SANITARY MANHOLES SHALL CONFORM TO ASTM C-478. MANHOLE JOINTS SHALL

11. A 12" GRADE ADJUSTMENT OF SANITARY MANHOLES WITH GRADE RINGS IS PERMITTED. BRICK AND CONCRETE ARE NOT PERMITTED.

12. NO SEWER CONSTRUCTION WILL BE PERMITTED UNTIL SUCH TIME THAT THE PLANS ARE APPROVED BY THE CITY OF RAVENNA AND THE O.E.P.A., INCLUDING PAYMENT OF REVIEW, AND "PERMIT TO INSTALL" FEES REQUIRED BY THE O.E.P.A.

13. ALL SANITARY SEWERS CONTAINED HEREIN ARE TO BE PUBLICLY OWNED AND

14. ALL SEWER RUN DISTANCE GIVEN ARE FROM THE CENTERLINE TO CENTERLINE OF MANHOLES. ALL PIPE INVERTS ELEVATIONS GIVEN AT THE MANHOLES ARE AT THE CENTERLINE OF MANHOLE. SEWER GRADES ARE ESTABLISHED FROM CENTERLINE OF MANHOLE AND CARRIED THROUGH MANHOLE INVERT TO ASSURE FLOW THROUGH

15. ALL UNDERGROUND LINES ENCOUNTERED BY THE CONSTRUCTION OF SANITARY SYSTEM ARE TO BE COMPLETELY RESTORED AT THE EXPENSE OF THE CONTRACTOR.

16. COST OF WYES AND STUBS TO BE INCLUDED IN PRICE BID PER LINEAR FOOT OF

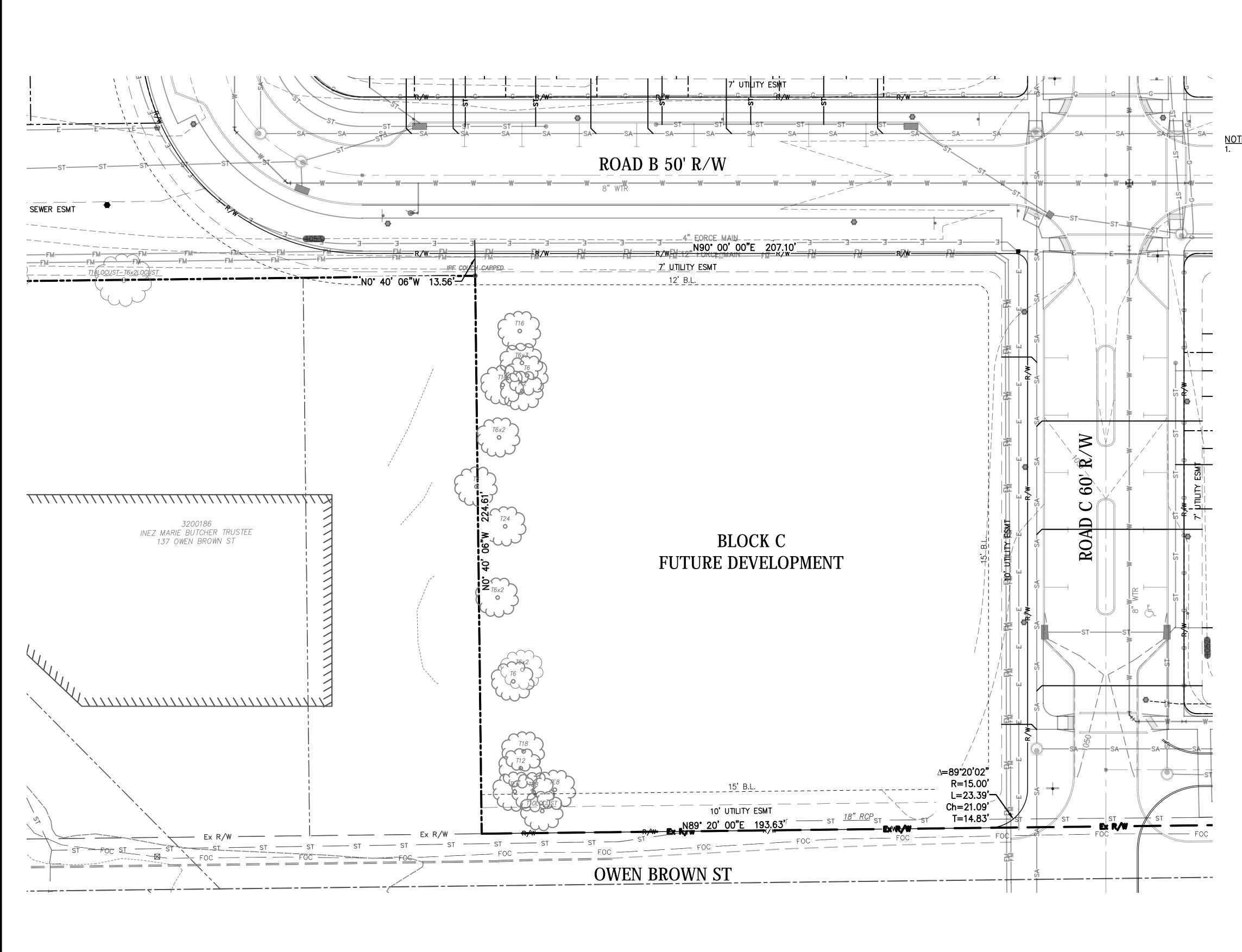
17. COST OF ANY SHEETING OR DEWATERING NECESSARY FOR INSTALLATION OF SANITARY SEWER SHALL BE INCLUDED IN PRICE BID PER LINEAR FOOT OF

18. NO SEWER WILL BE ACCEPTED IF THE PIPE DEFLECTION IS IN EXCESS OF 5% OF ITS

19. LEAKAGE TESTING, INFILTRATION SHALL NOT EXCEED THE OHIO EPA LIMIT OF 100 GALLONS PER INCH PIPE DIAMETER PER MILE OF SEWER PER DAY.

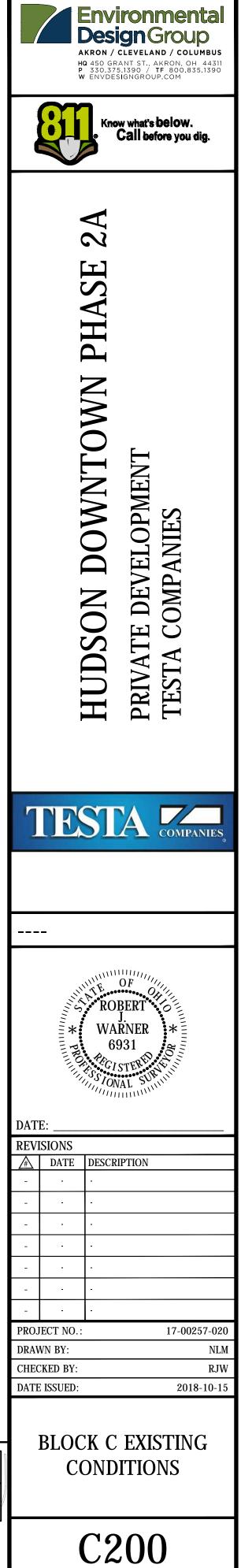
20. MANHOLES MUST BE INSPECTED AND TESTED FOR WATER TIGHTNESS OR DAMAGE PRIOR TO PLACING INTO SERVICE. AIR TESTING FOR CONCRETE SEWER MANHOLES SHALL CONFORM TO THE TEST PROCEDURES DESCRIBED IN ASTM C-1244.

	Environmental DesignGroup KRON / CLEVELAND / COLUMBUS 450 GRANT ST., AKRON, OH 44311 330.375.1390 / TF 800.835.1390 ENVDESIGNGROUP.COM
	Know what's below. Call before you dig.
	HUDSON DOWNTOWN PHASE ZA PRIVATE DEVELOPMENT TESTA COMPANIES
TES	STA COMPANIES
The S * PROFILIT	WARNER 6931
DATE: REVISIONS	
DATE -	DESCRIPTION .
	· · · · · · · · · · · · · · · · · · ·
- PROJECT NO.:	- 17-00257-020
DRAWN BY: CHECKED BY:	NLM RJW
date issued:	2018-10-15 ERAL NOTES

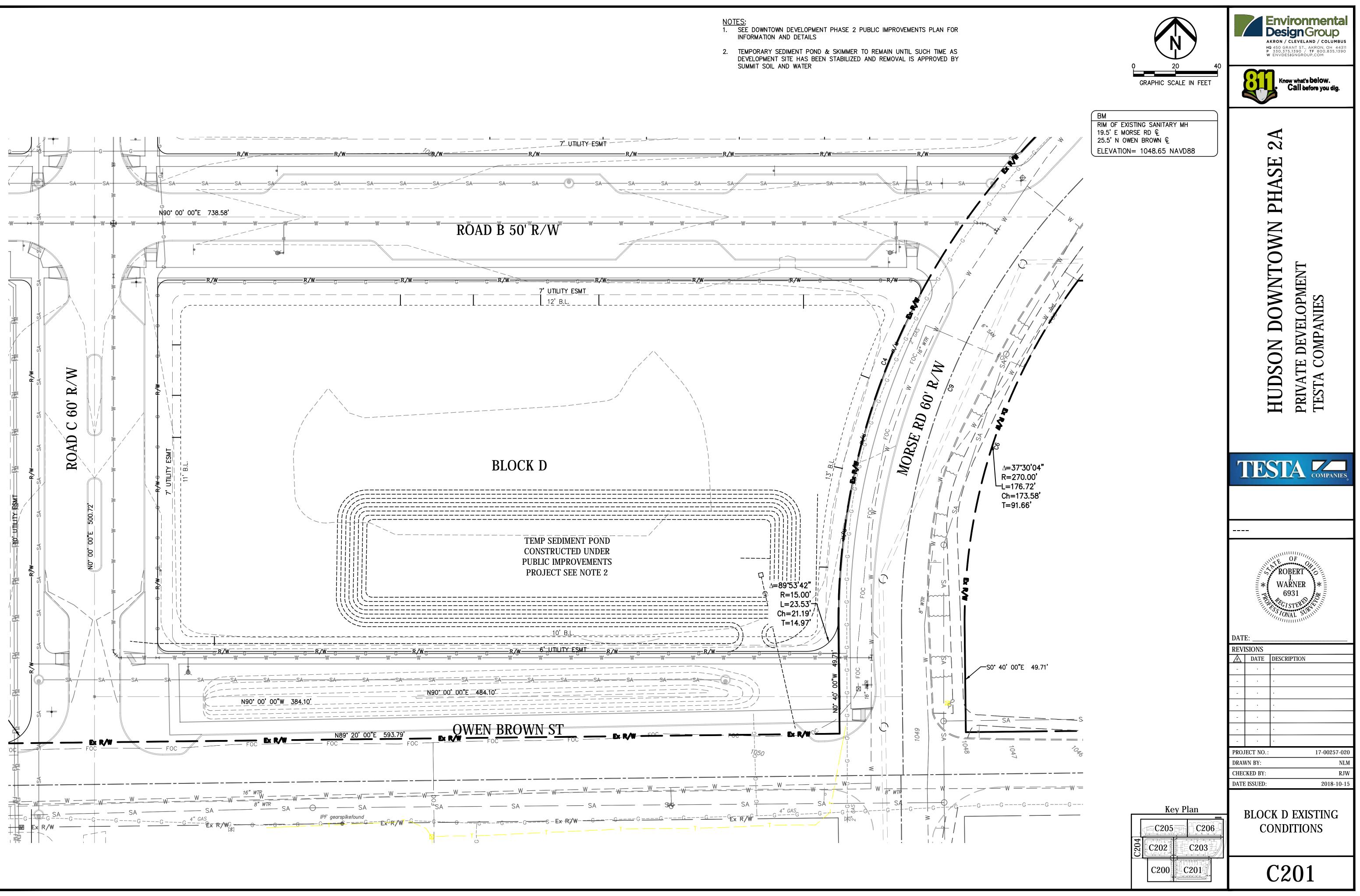


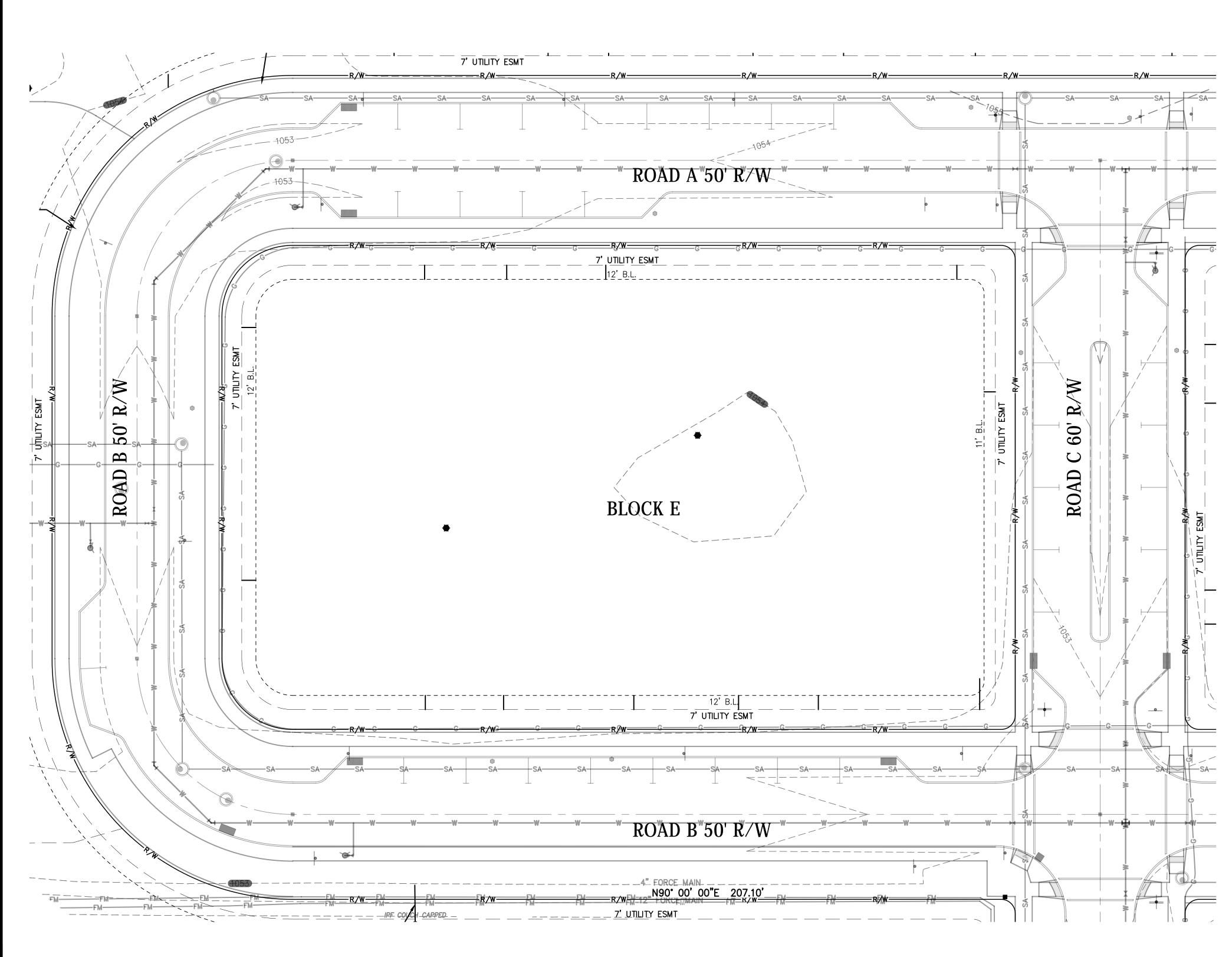


BM RIM OF EXISTING SANITARY MH 19.5' E MORSE RD € 25.5' N OWEN BROWN € ELEVATION= 1048.65 NAVD88



	Key Plan	
Ţ		ļ
C204	C202	
	C200 C201	-

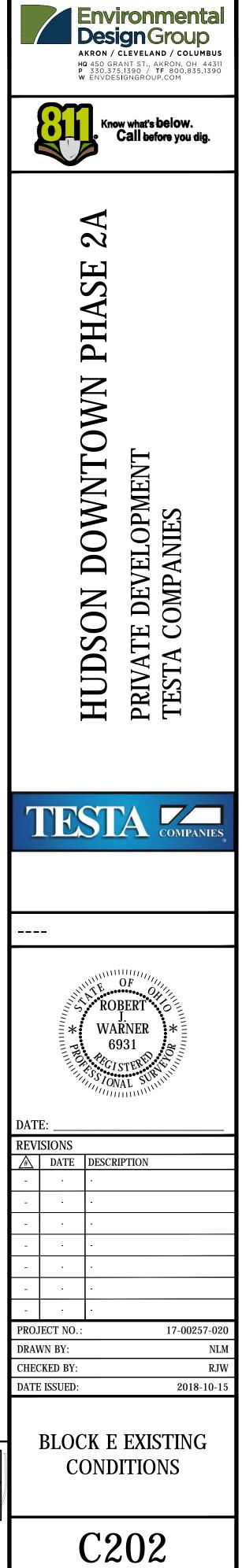




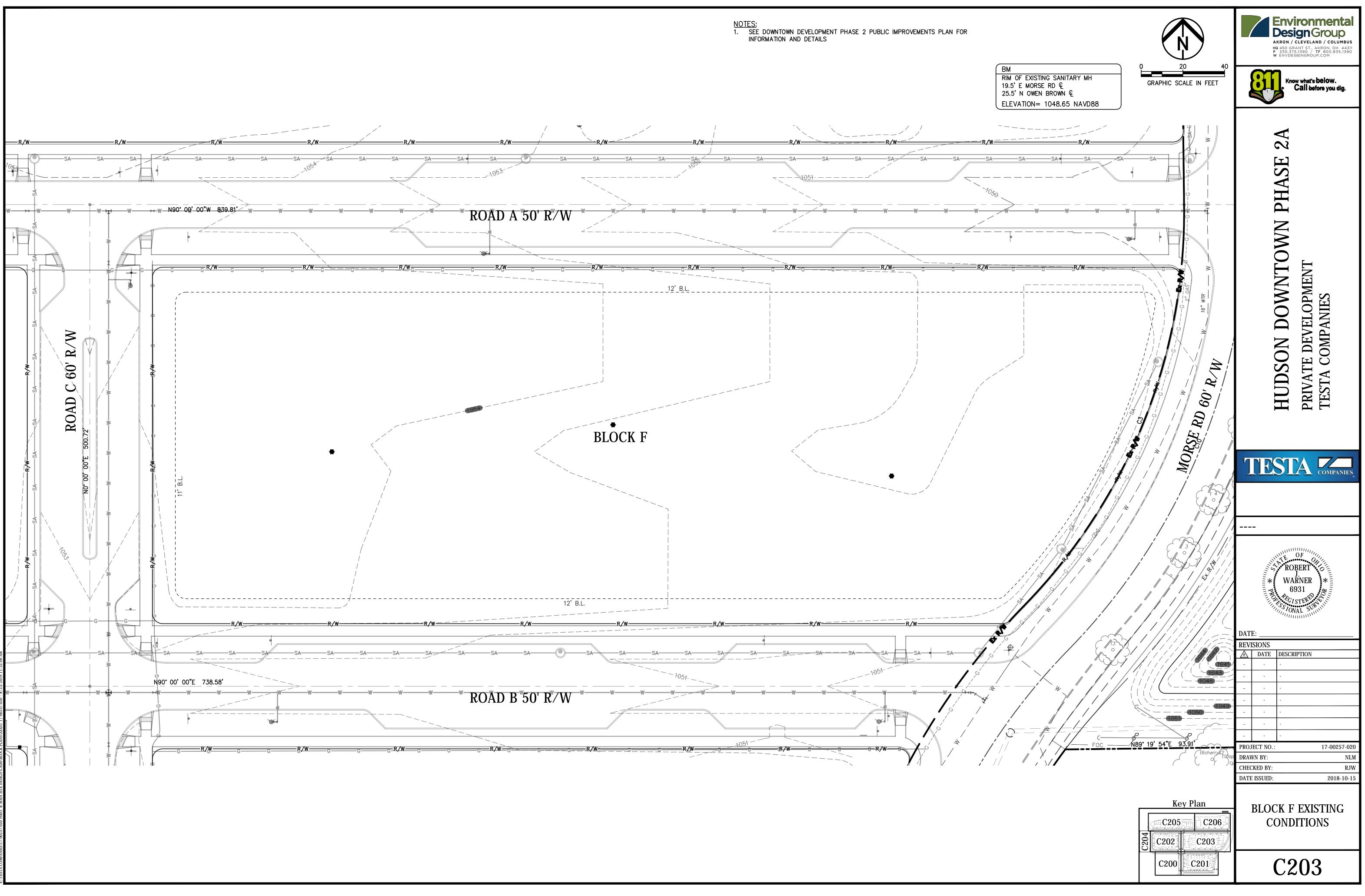




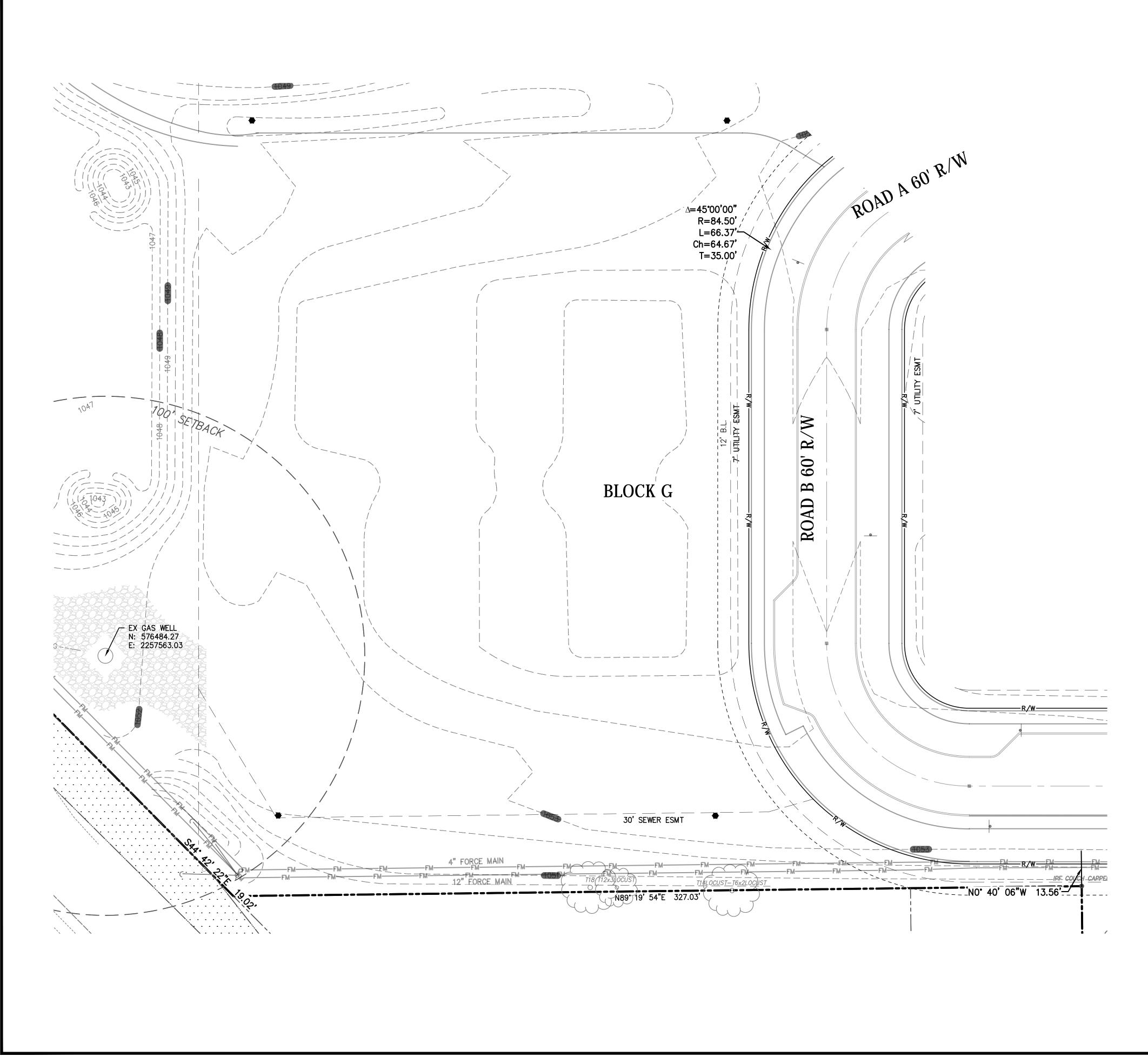
BM RIM OF EXISTING SANITARY MH 19.5' E MORSE RD & 25.5' N OWEN BROWN & ELEVATION= 1048.65 NAVD88



	Key Plan
	C205 C206
C204	C202 C203
	C200

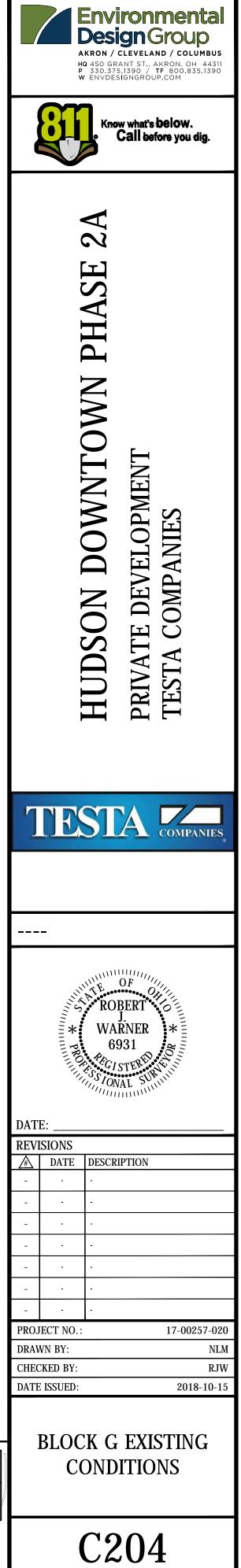


TESTA COMPANIES/17-00257-020 FIRST & MAIN SITE DESIGN/CADD/BLOCK PLANS/ZEXST 17-00257-020 - 8/23/5

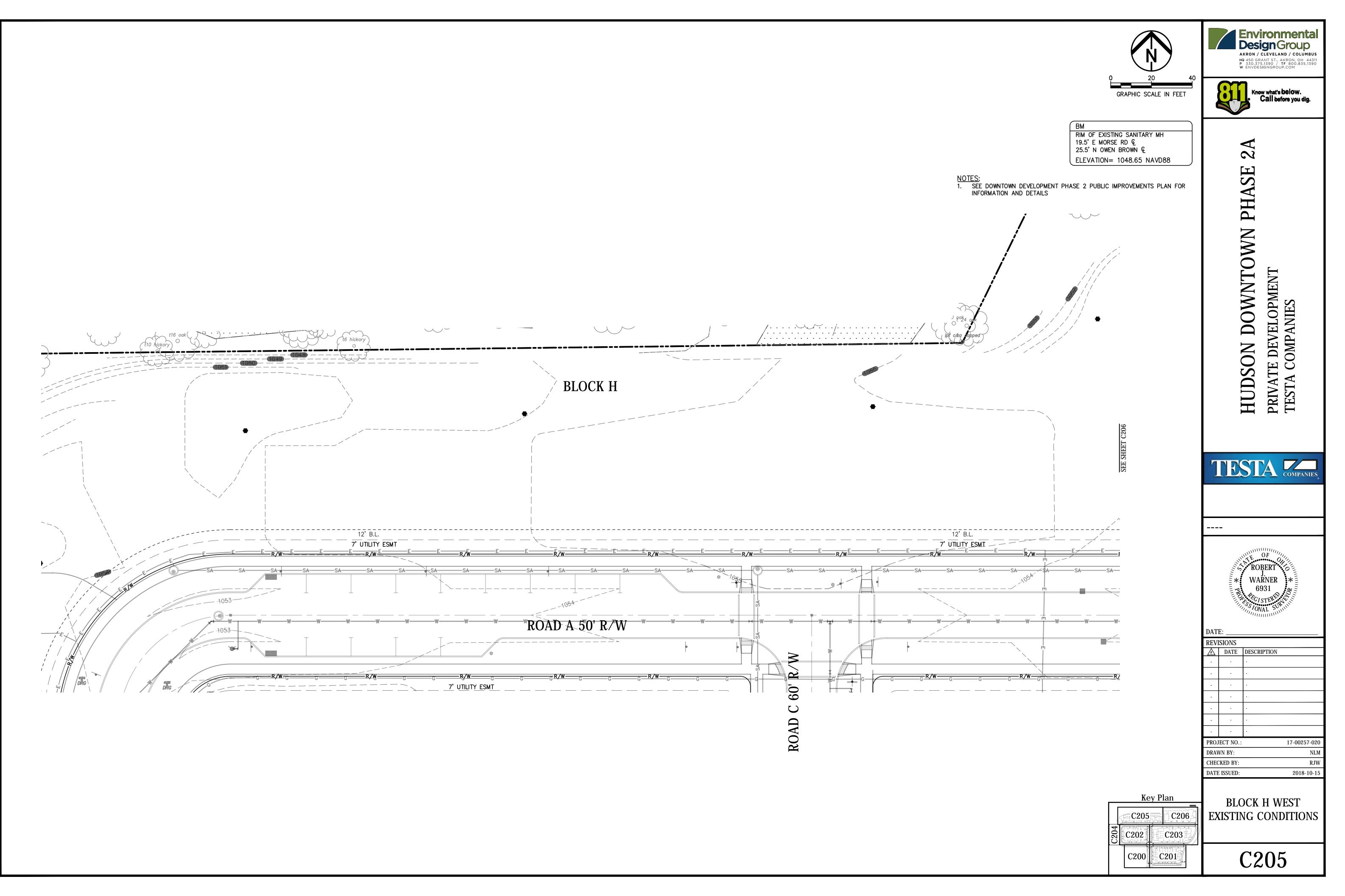


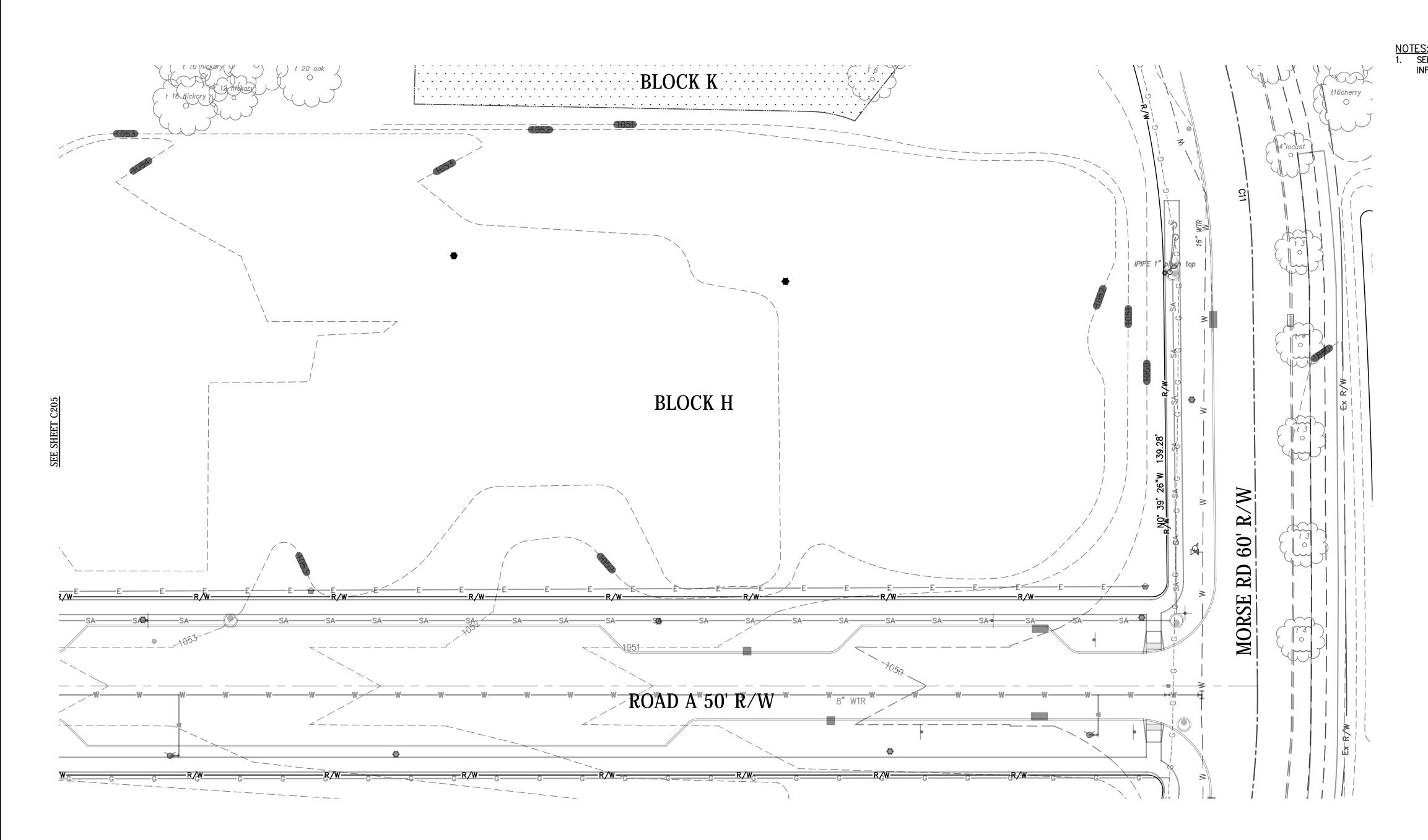


BM RIM OF EXISTING SANITARY MH 19.5' E MORSE RD & 25.5' N OWEN BROWN & ELEVATION= 1048.65 NAVD88



	Key Plan
C204	C205 C206 C202 C203
	C200

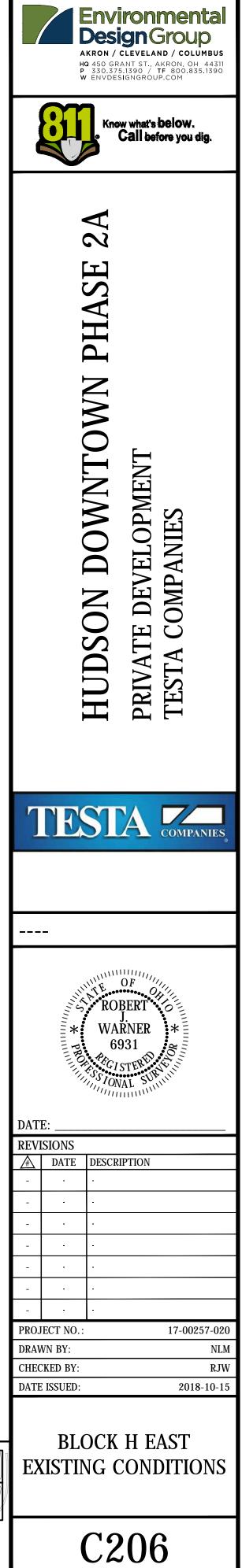






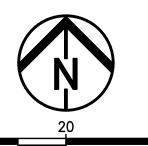


BM RIM OF EXISTING SANITARY MH 19.5' E MORSE RD & 25.5' N OWEN BROWN & ELEVATION= 1048.65 NAVD88



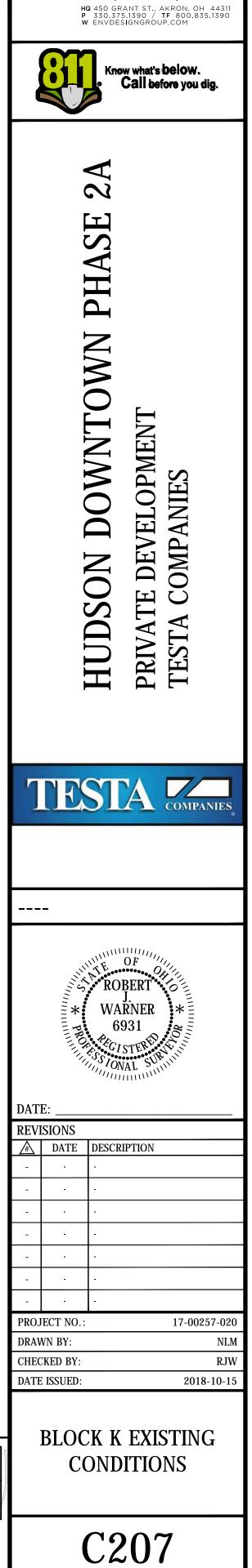
	K	ey Plan	
_			888888 <u>6</u>
	C20	5 C206	ł
C204	C202		\mathcal{T}
	C200	C201	





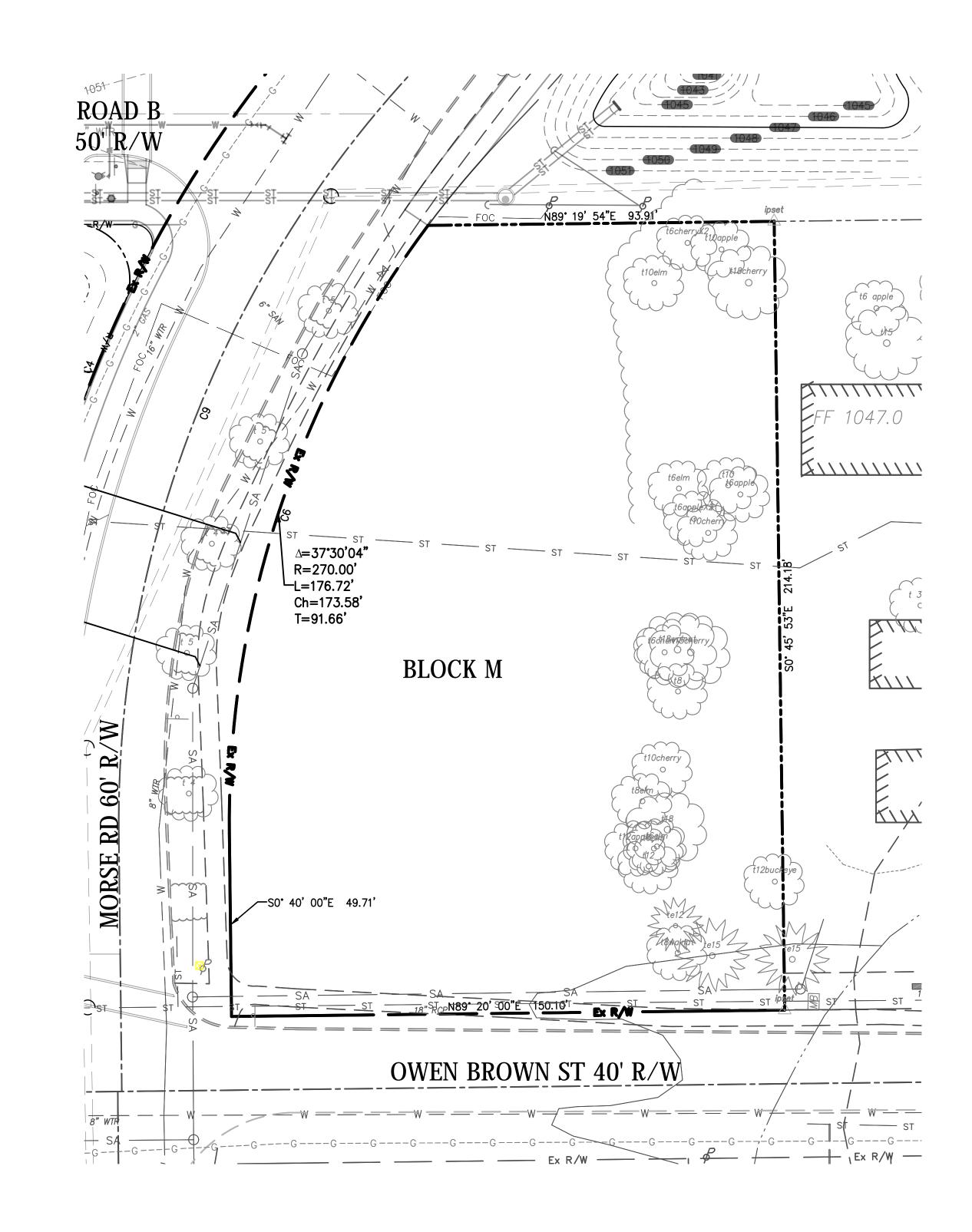
BM RIM OF EXISTING SANITARY MH 19.5' E MORSE RD € 25.5' N OWEN BROWN € ELEVATION= 1048.65 NAVD88

NOTES: 1. SEE DOWNTOWN DEVELOPMENT PHASE 2 PUBLIC IMPROVEMENTS PLAN FOR INFORMATION AND DETAILS



Environmental DesignGroup AKRON / CLEVELAND / COLUMBUS

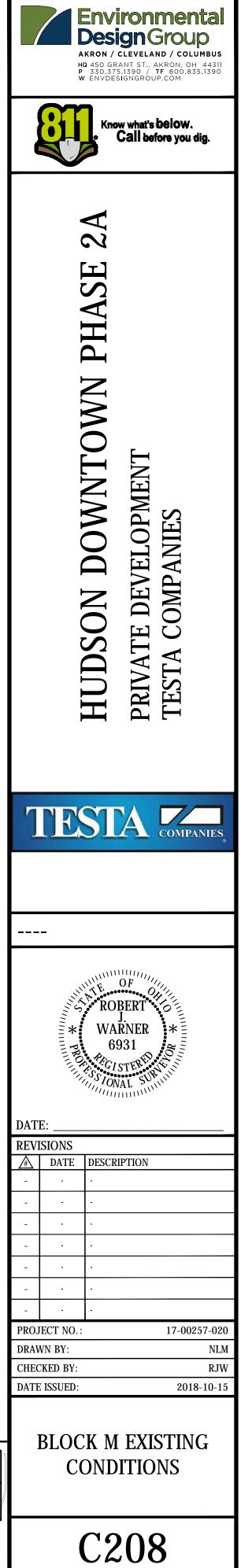
	Key Plan
Г	
	C205 C206
C204	C202 C203
	C200



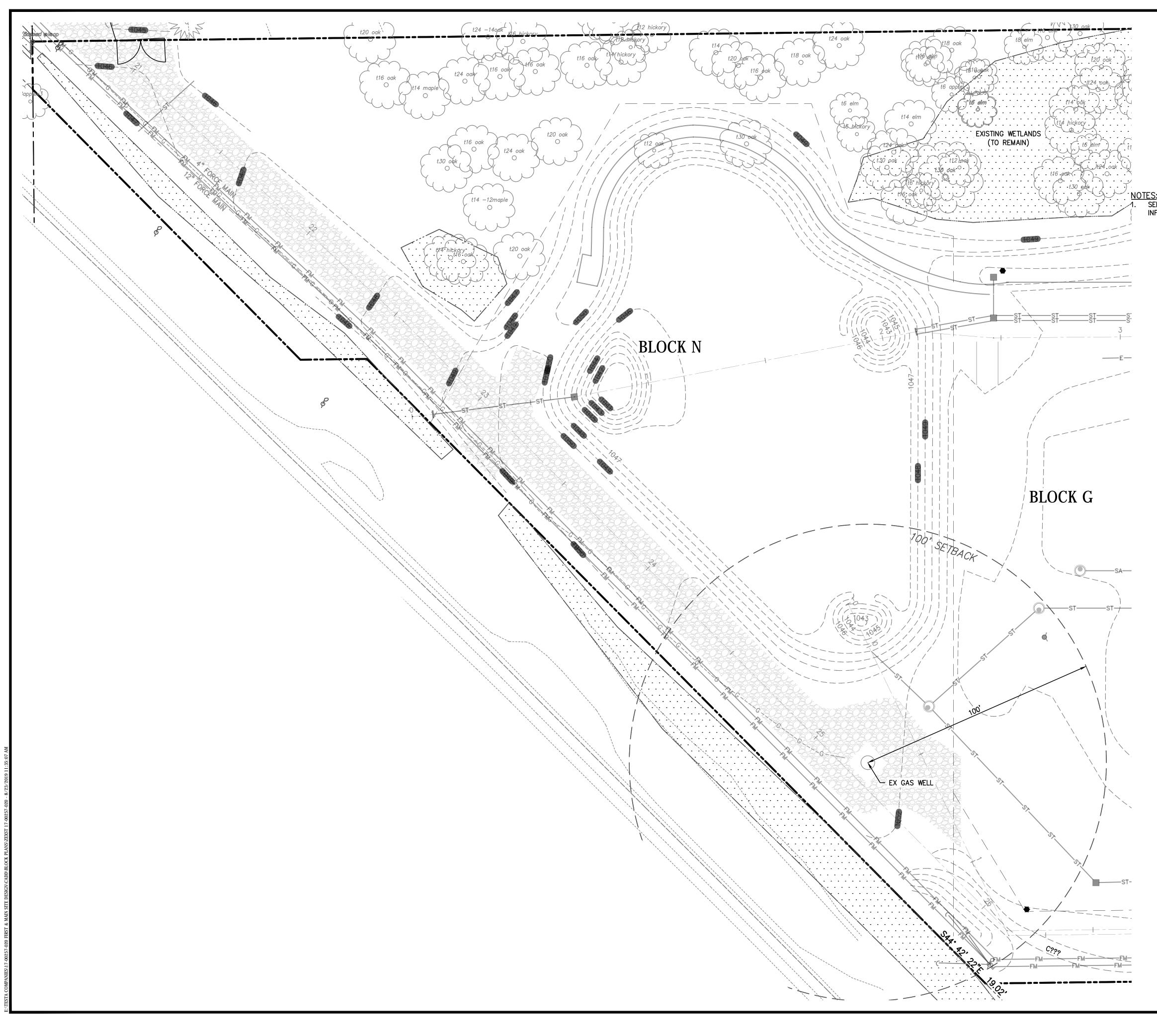




BM RIM OF EXISTING SANITARY MH 19.5' E MORSE RD & 25.5' N OWEN BROWN & ELEVATION= 1048.65 NAVD88

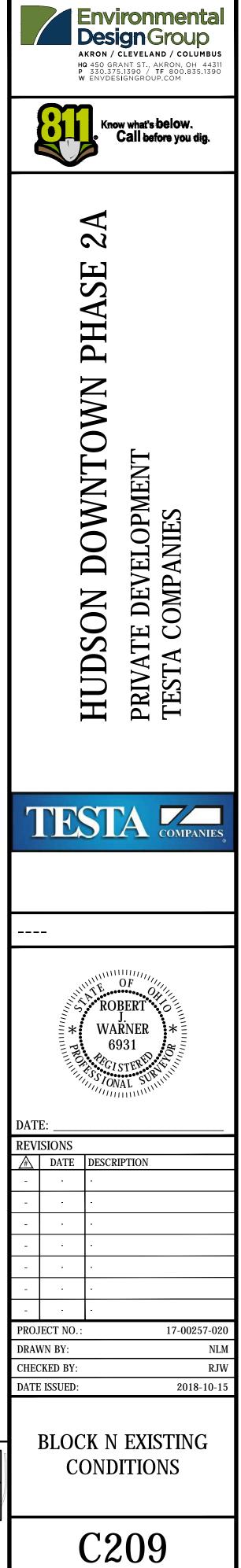


	Key Plan
C204	C205 C206 C202 C203
	C200 C201

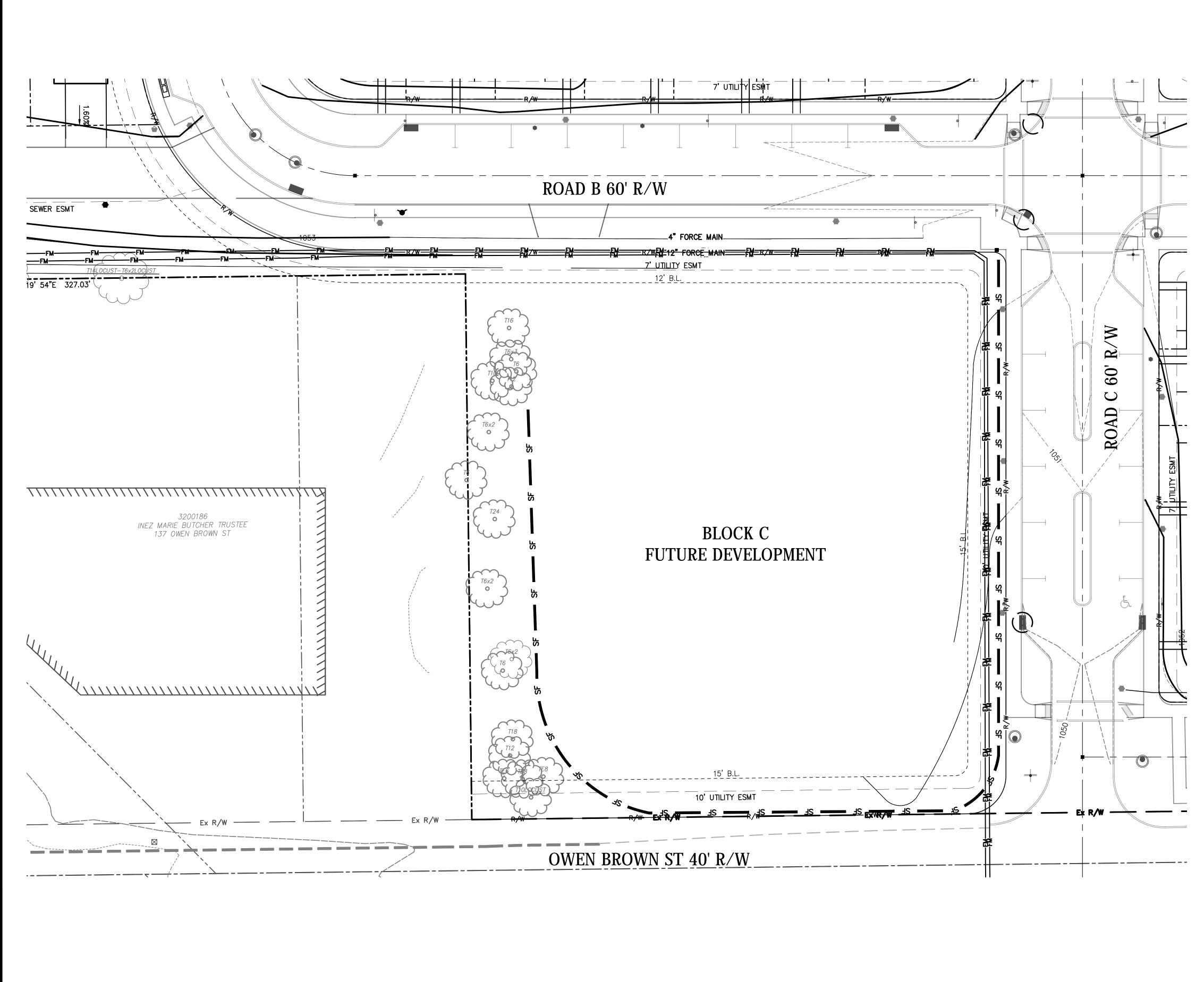


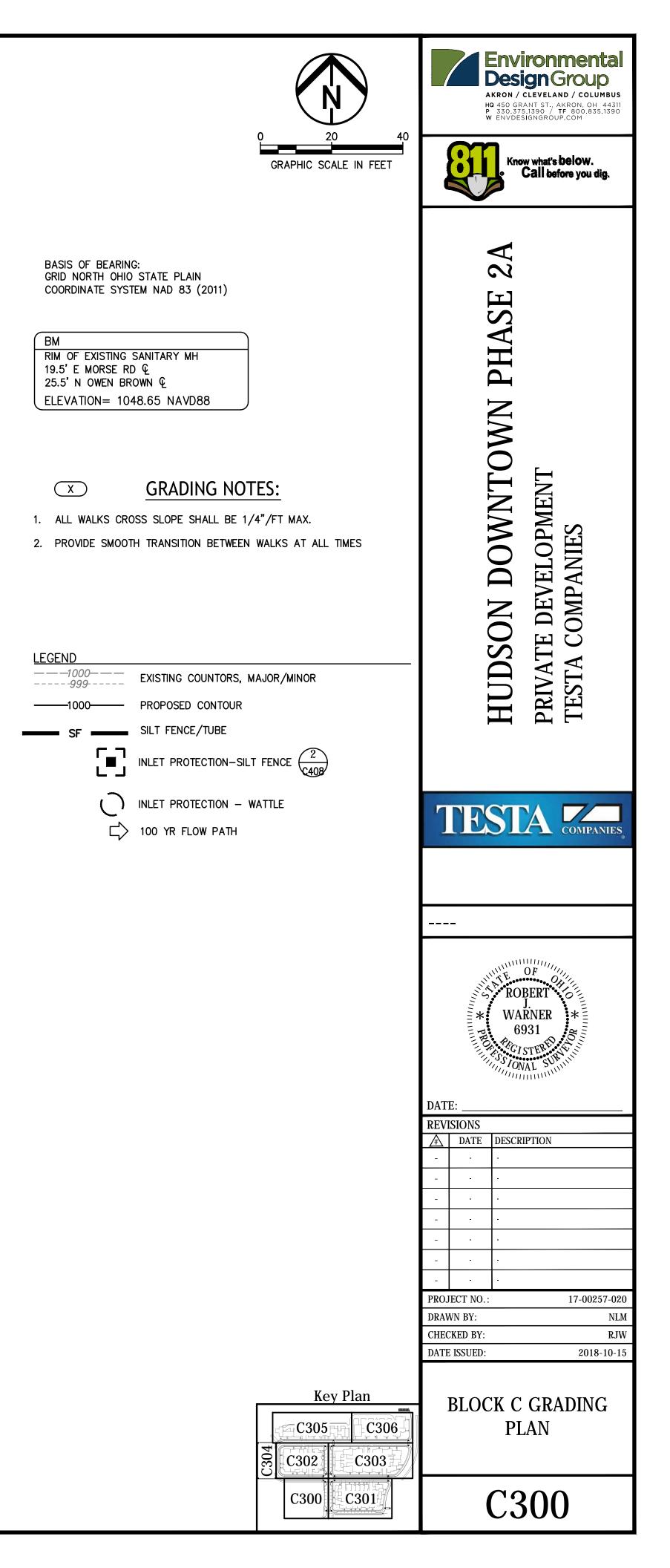


BM RIM OF EXISTING SANITARY MH 19.5' E MORSE RD & 25.5' N OWEN BROWN & ELEVATION= 1048.65 NAVD88

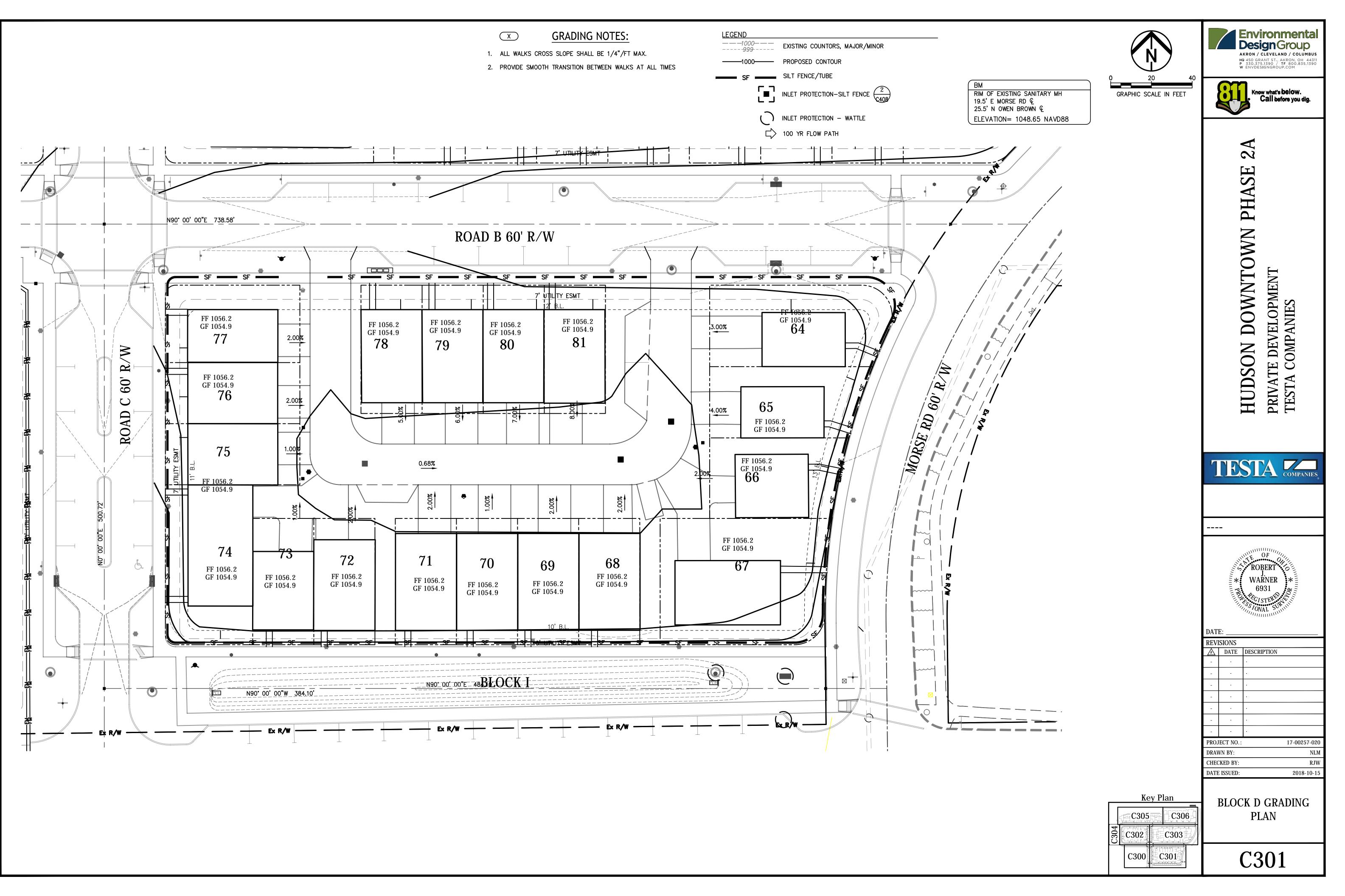


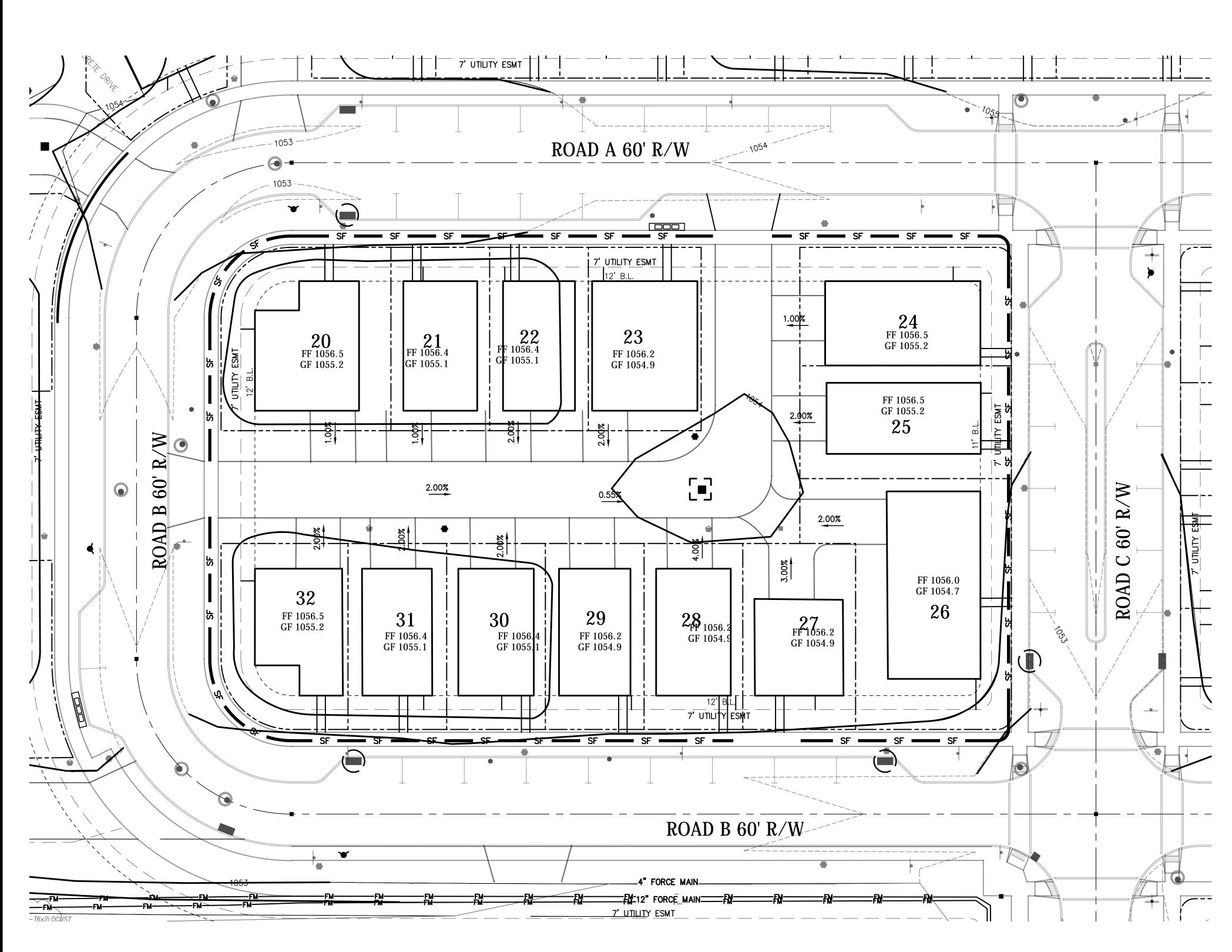
	Key Plan
204	C205 C206 C202 C203
	C200 C201



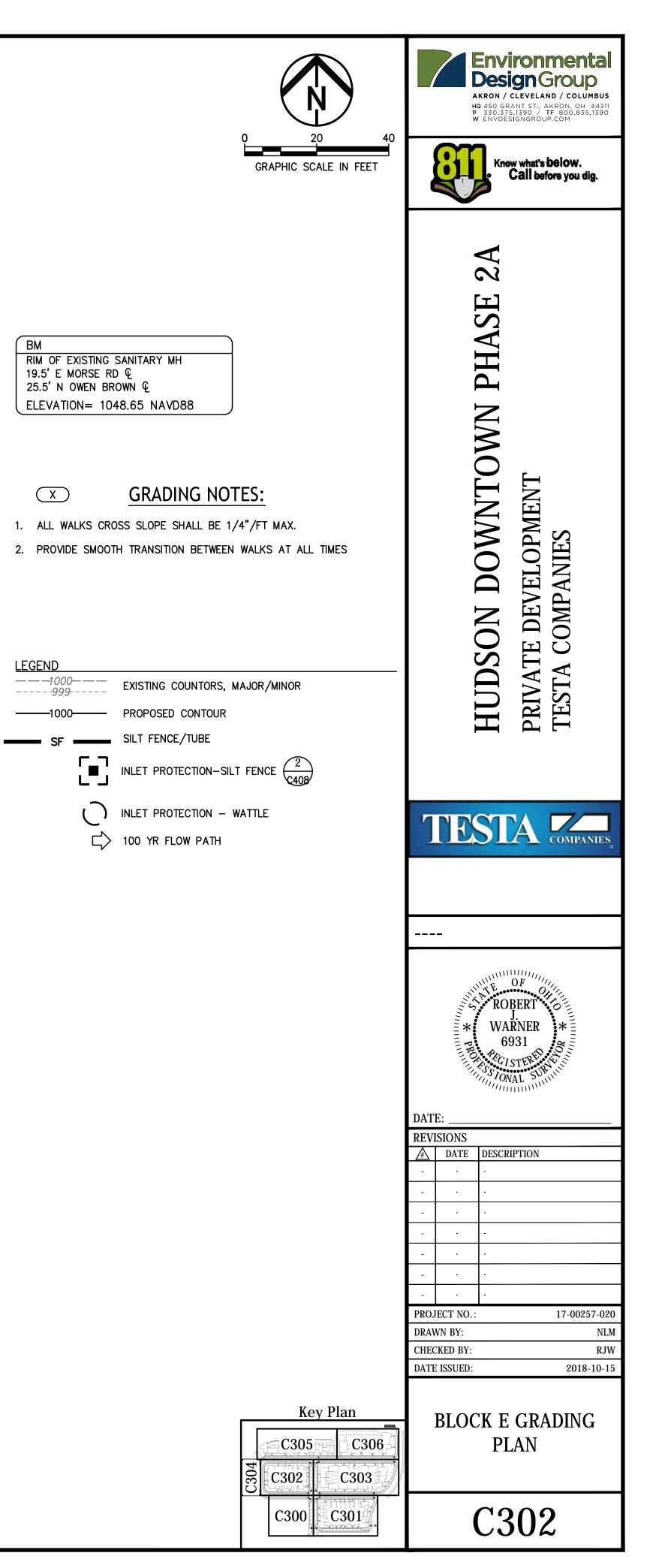


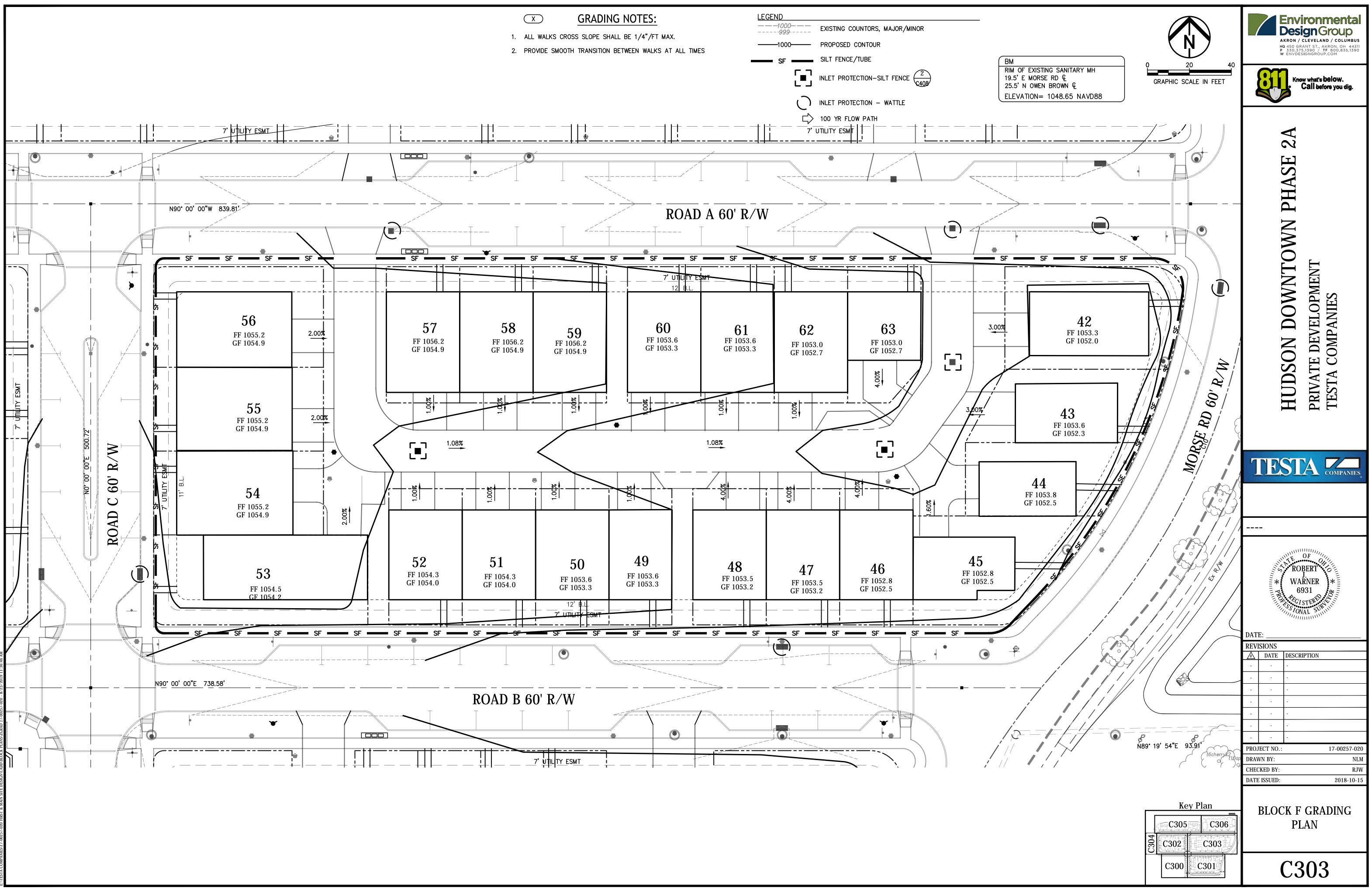




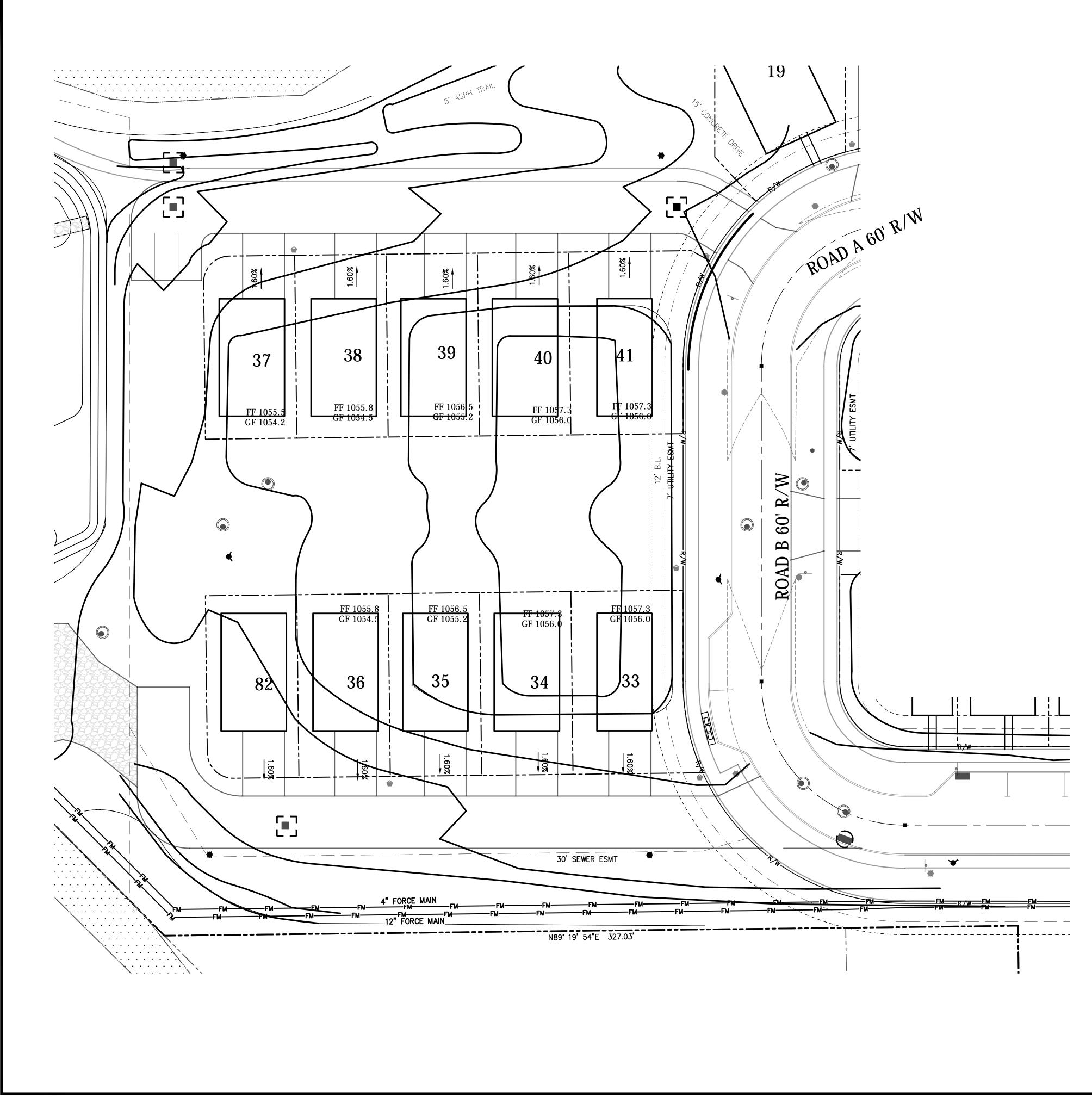


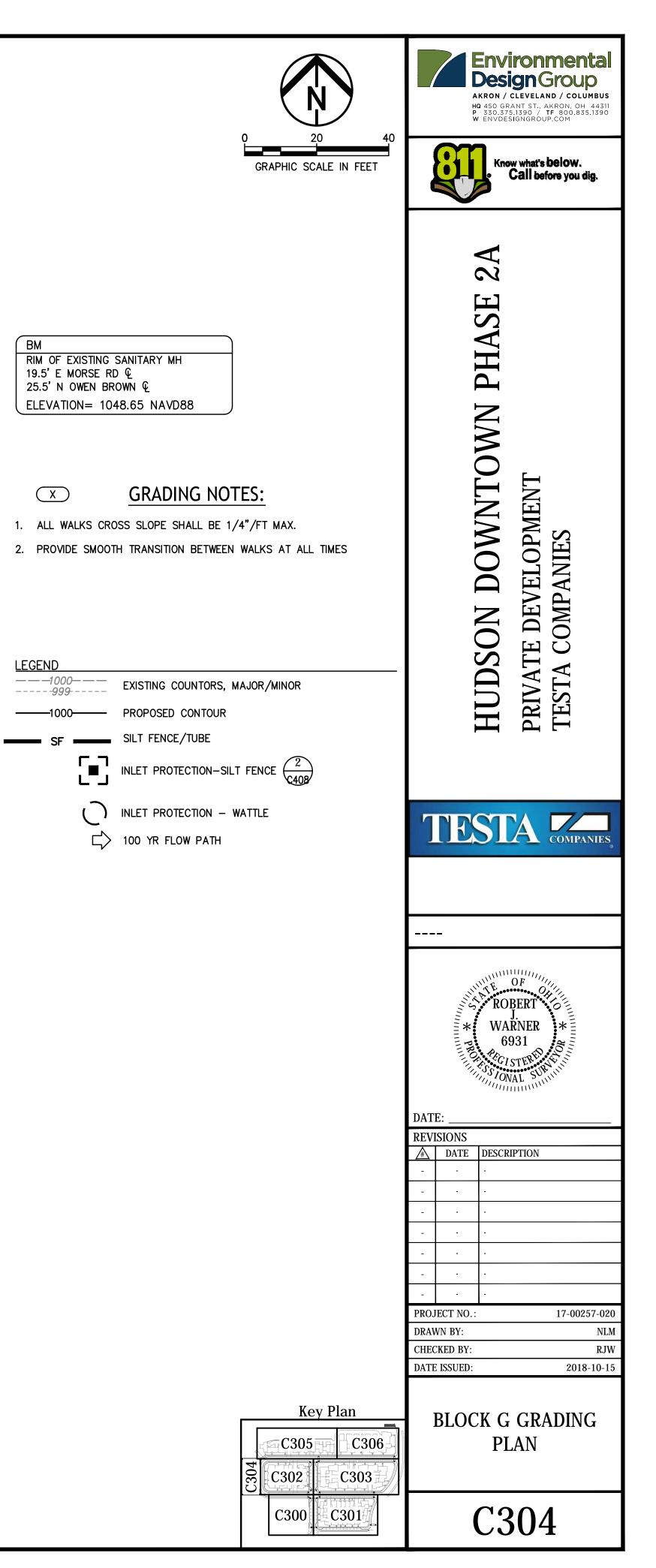
TA COMPANIES/17-00257-020 FIRST & MAIN SITE DESIGN/CADD/BLOCK PLANS/ZGRAD 17-00257-020 - 8/23/2019 11:36:26 A

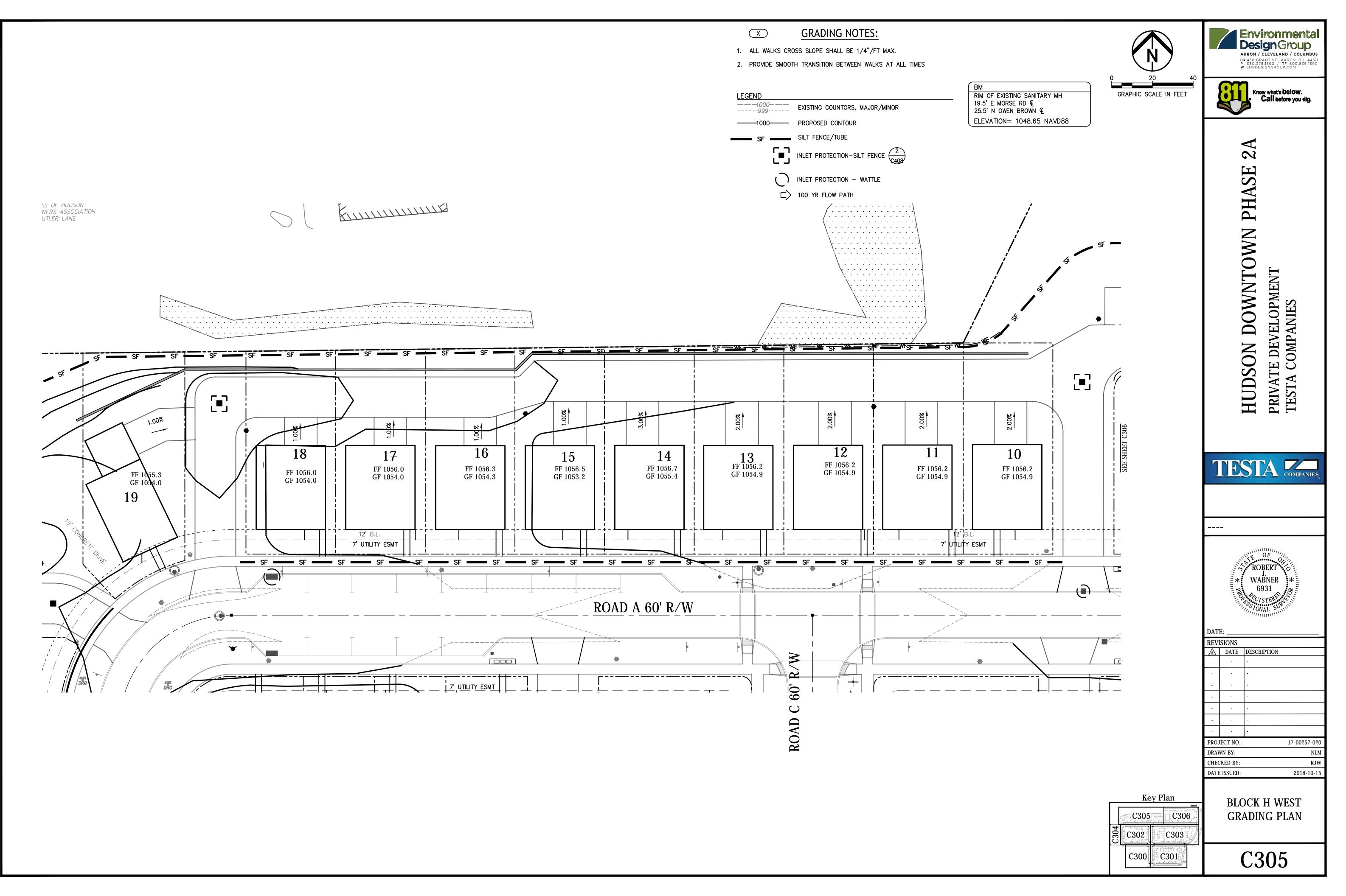




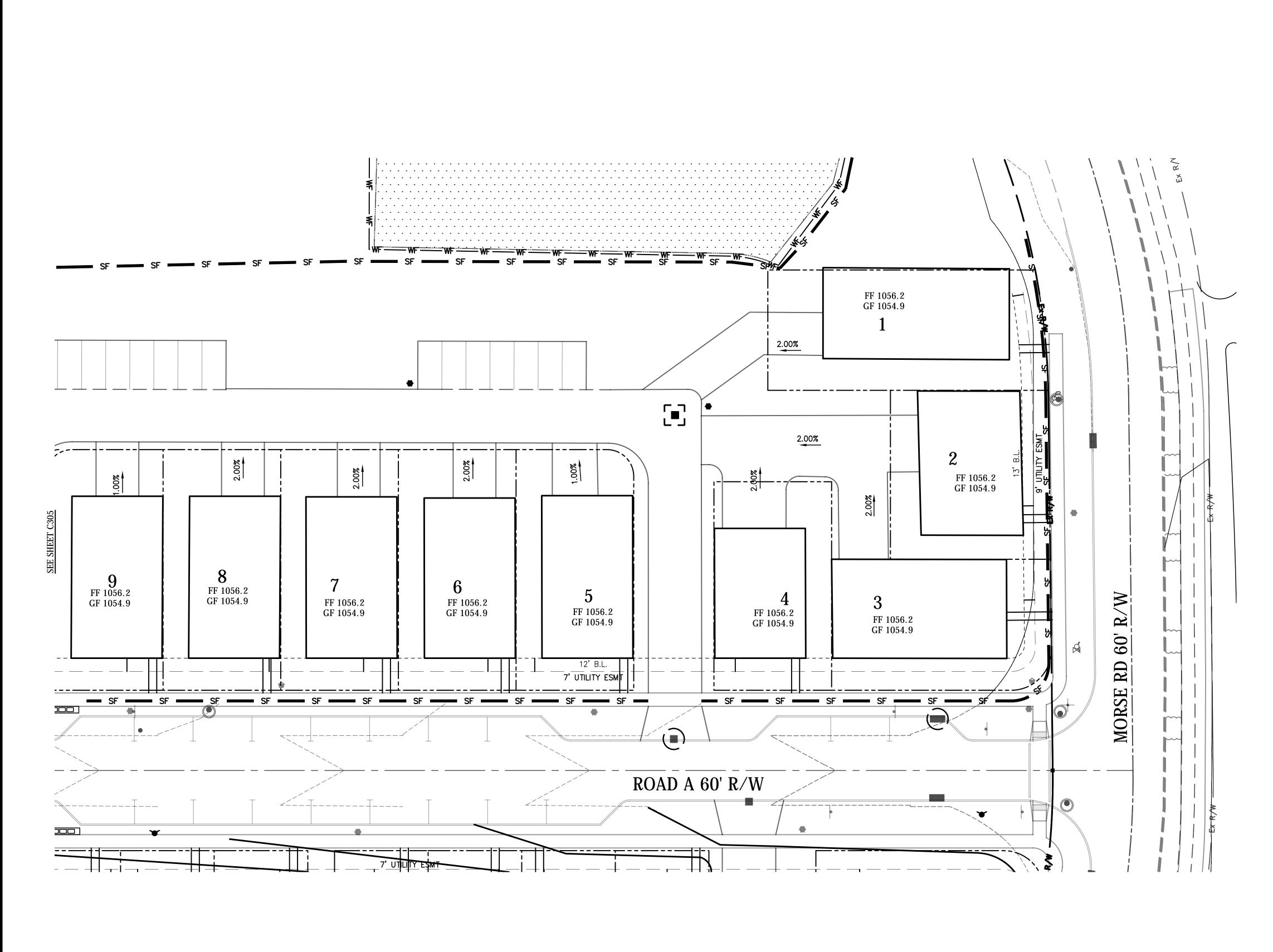
TESTA COMPANIES/17-00257-020 FIRST & MAIN SITE DESIGN/CADD/BLOCK PLANS/ZGRAD 17-00257-020 - 8/2



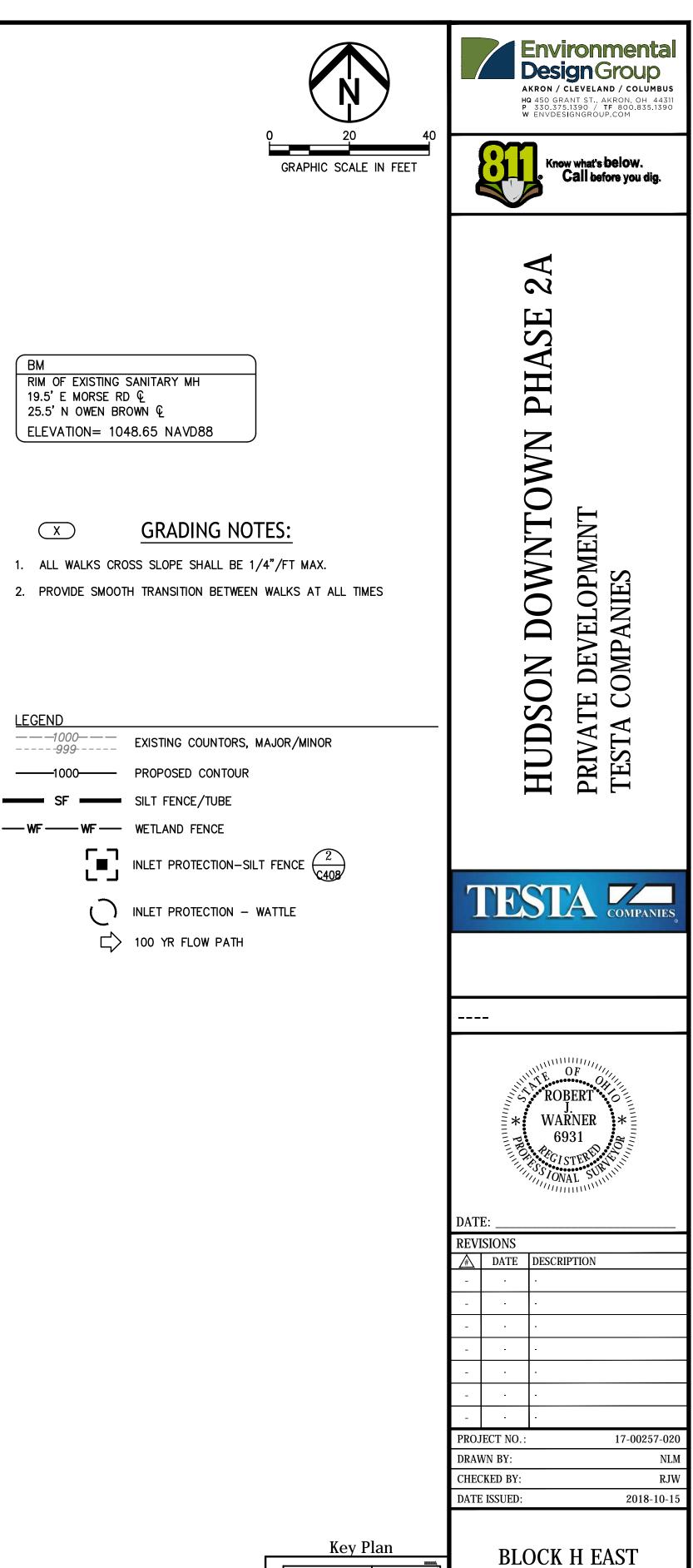




ESTA COMPANIES/17-00257-020 FIRST & MAIN SITE DESIGN/CADD/BLOCK PLANS/ZGRAD 17-00257-020 - 8/23/2019 11:37



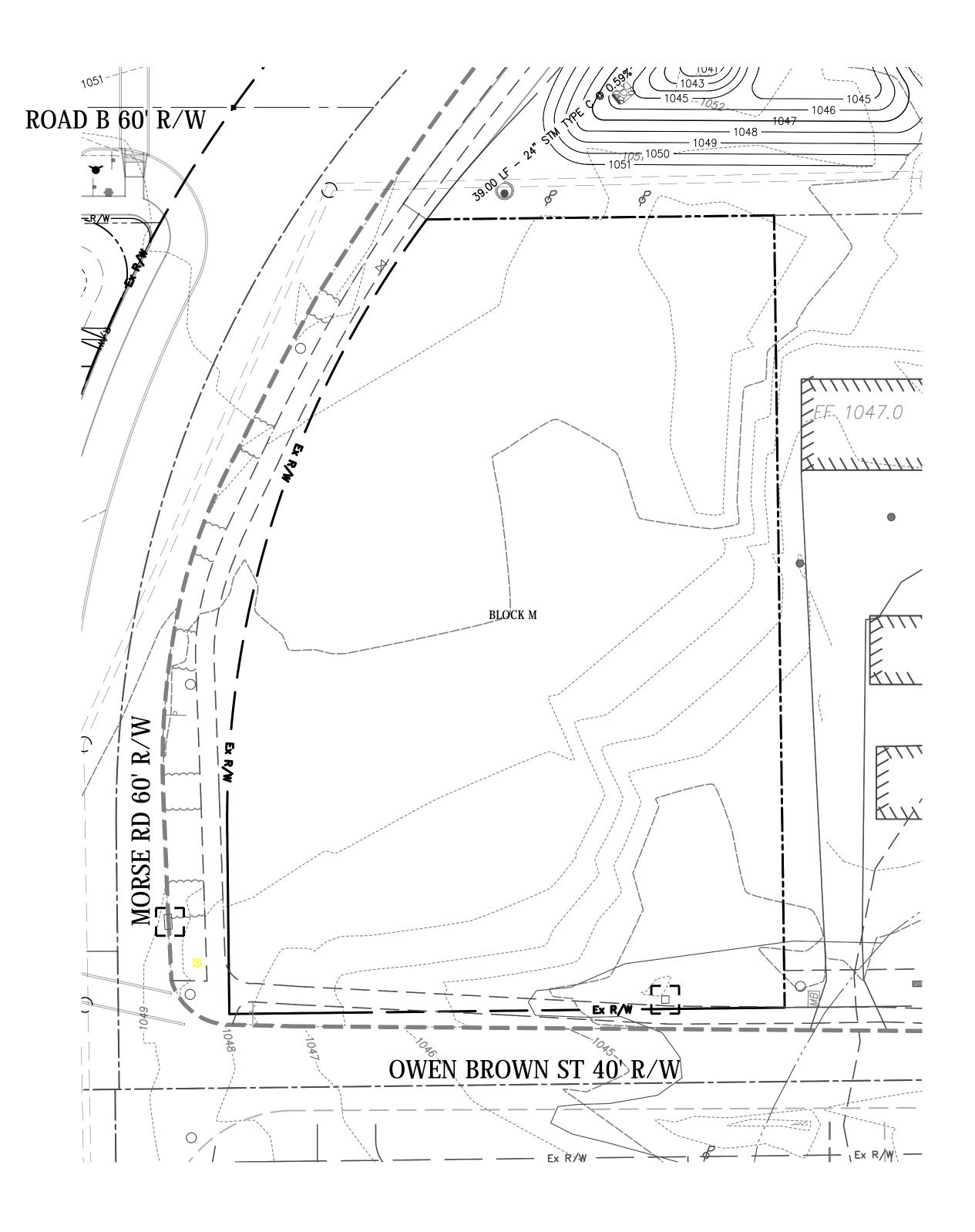


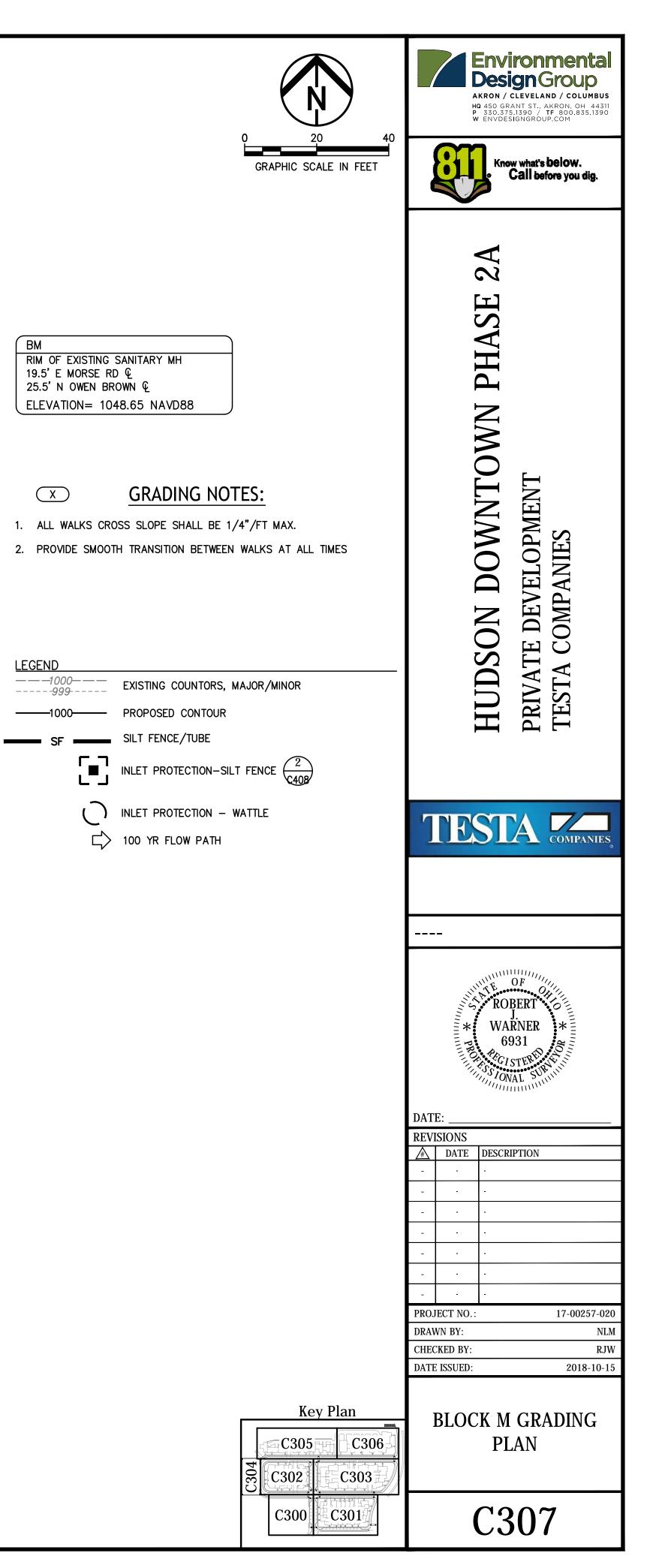


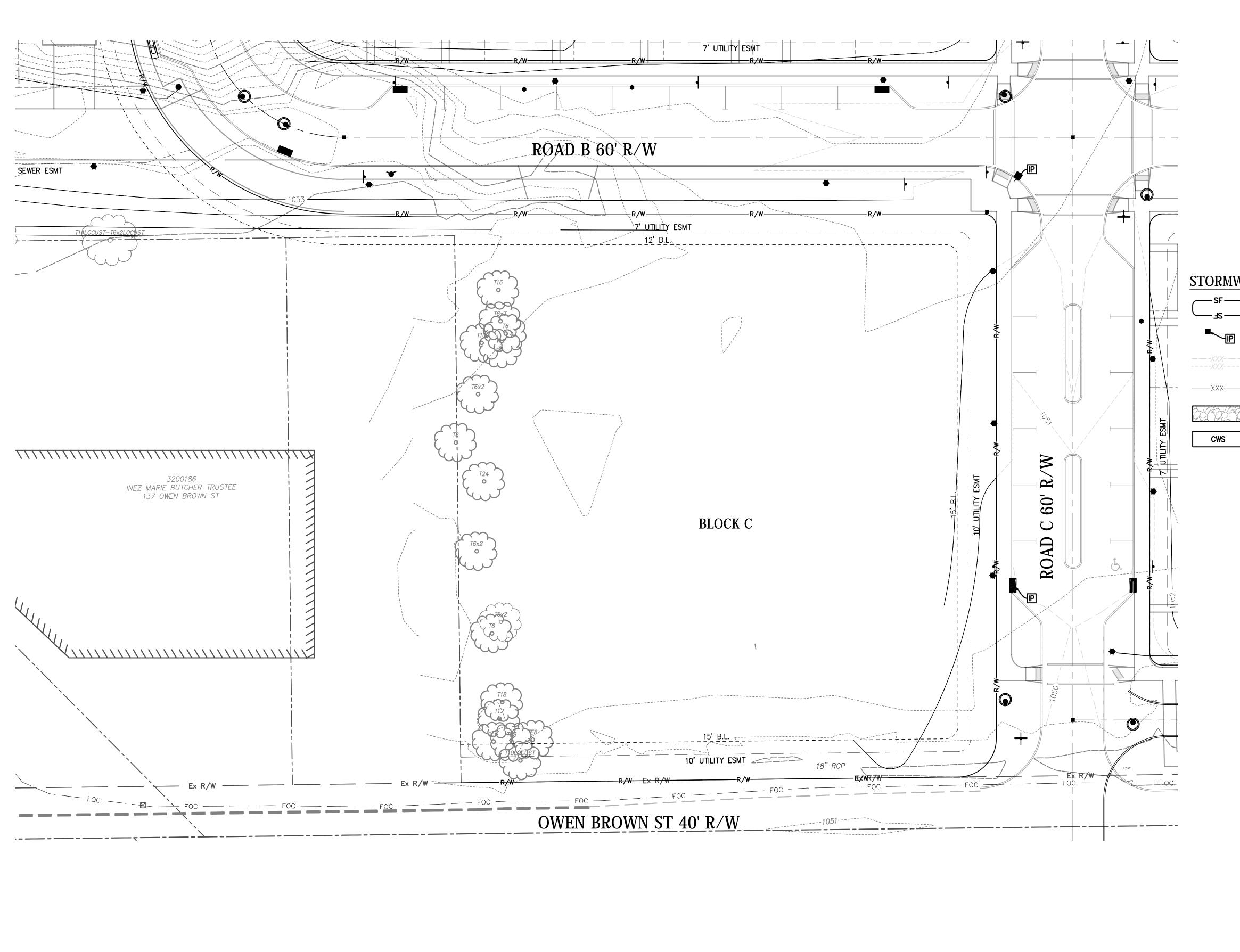
	Key Plan
Ļ	C305 C306
C304	C302 C303
	C300 C301

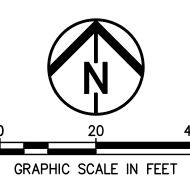
C306

GRADING PLAN





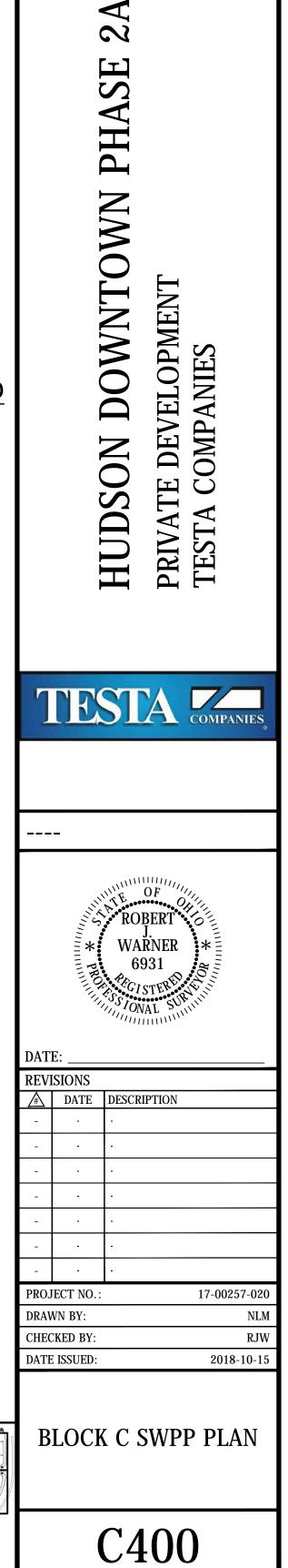








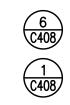
Know what's below. Call before you dig.



STORMWATER POLLUTION PREVENTION LEGEND

SF SILT FENCE SILT SOCK 2 3 C408 C408 INLET PROTECTION 7 8 C408 C408 C408 C408 C408 C408

> CONCRETE WASHOUT STATION



Key Plan

C400 C401

C405

C402

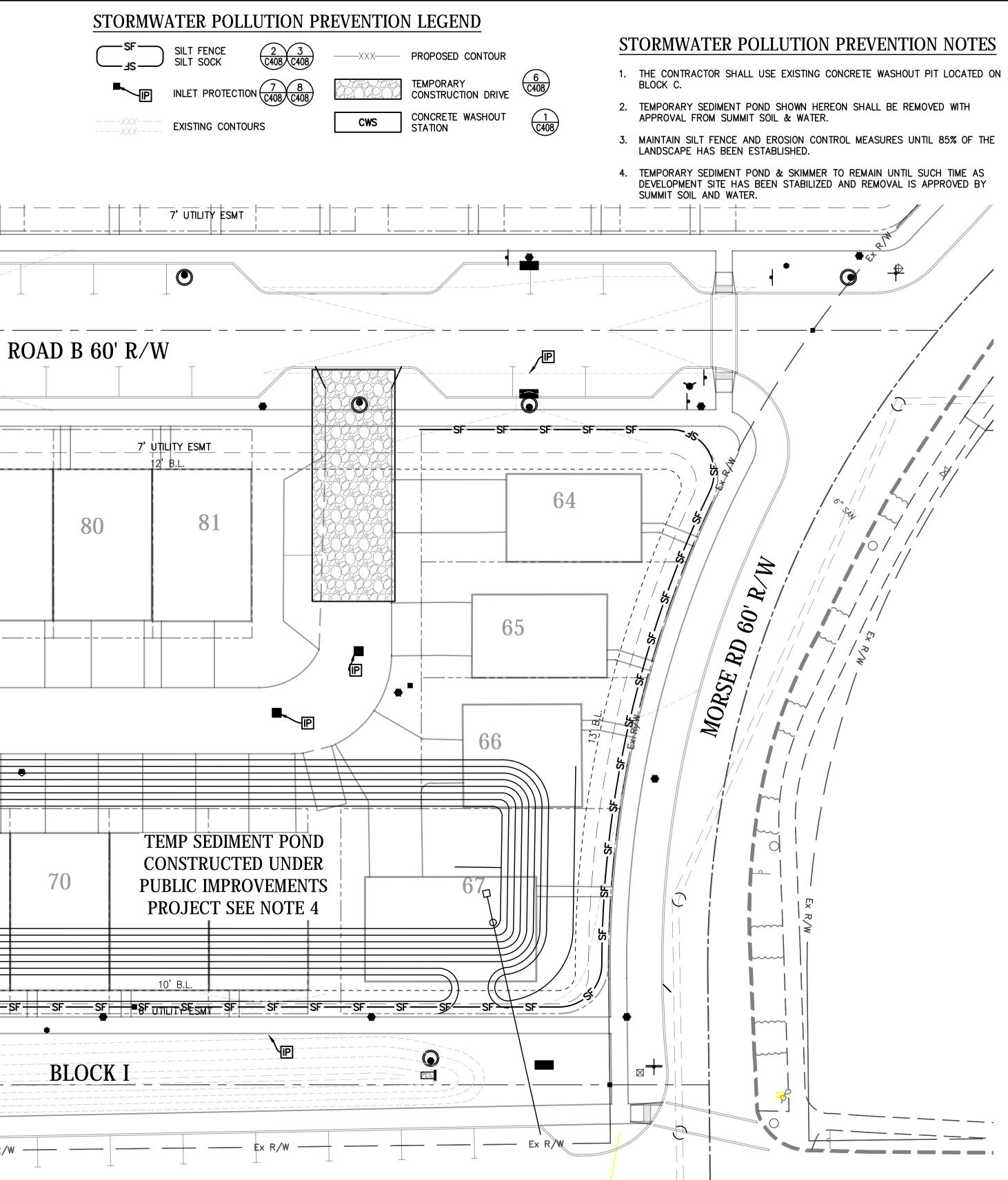
C406

C403

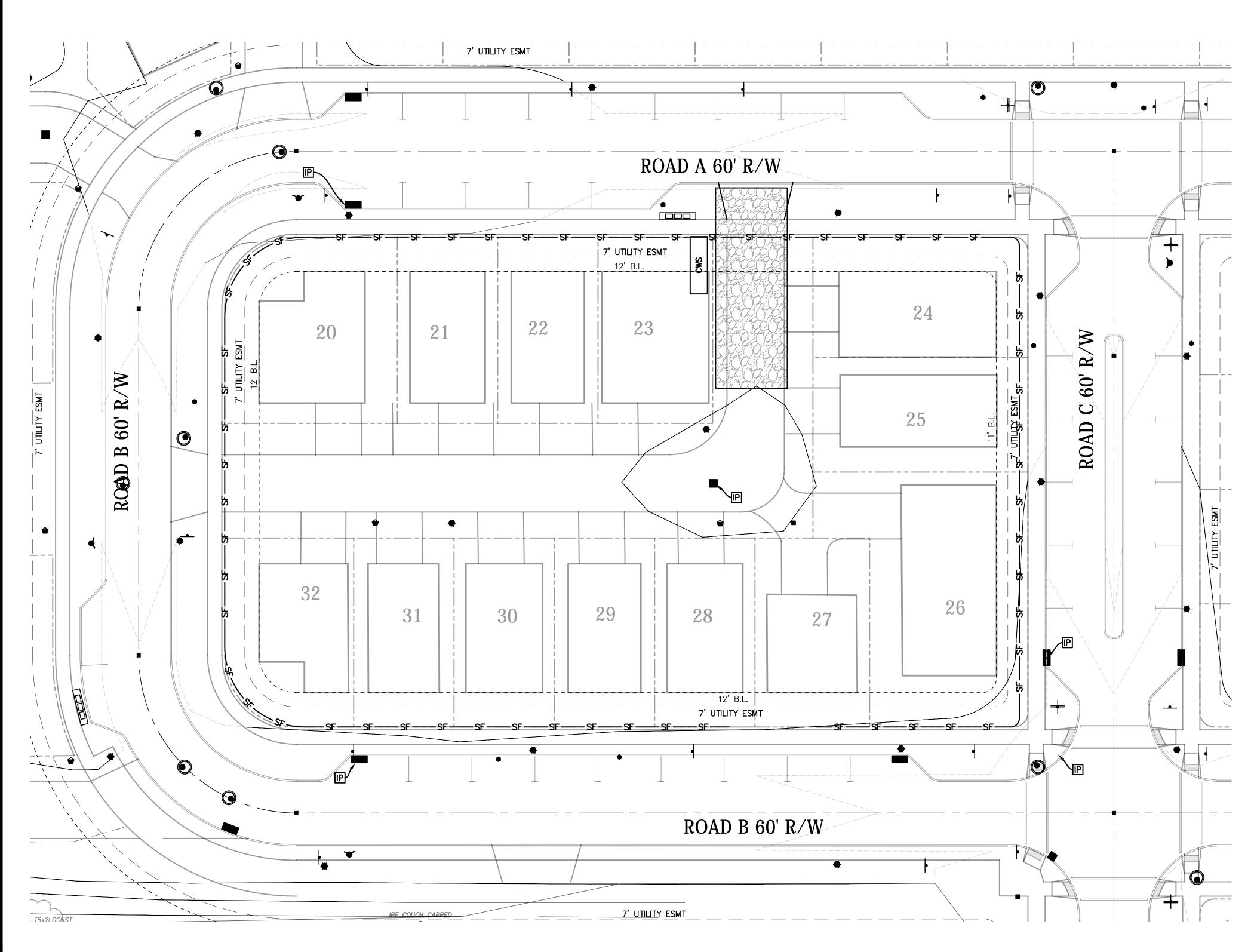
 \odot 1 + MM 78 79 M R 60' 76 \mathbf{C} ROAD 75 ESM |₩` - 12 ĥ ESMT <u>`</u>0 74 7371 P \bigcirc 200 + R/W

35TA COMPANIES/17-00257-020 FIRST & MAIN SITE DESIGN/CADD/BLOCK PLANS/ZSWPP 17-00257-020 - 8/23/2019 11:39:06

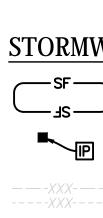
---/



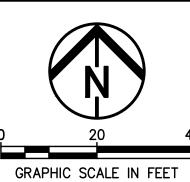
Environmental DesignGroup AKRON / CLEVELAND / COLUMBUS HQ 450 GRANT ST., AKRON, OH 44311 P 330.375.1390 / TF 800.835.1390 W ENVDESIGNGROUP.COM Know what's below. Call before you dig. GRAPHIC SCALE IN FEET (\bullet) 2 PHASE -₩< HUDSON DOWNTOWN PRIVATE DEVELOPMENT TESTA COMPANIES TESTA COMPANIES ----WARNER 6931 DATE: REVISIONS A DATE DESCRIPTION 17-00257-020 PROJECT NO.: DRAWN BY: NLM CHECKED BY: RJW DATE ISSUED: 2018-10-15 Key Plan BLOCK D SWPP PLAN C406 **C405** C403 C402 C401 C400 C401 ~_____







CWS





Environmental DesignGroup AKRON / CLEVELAND / COLUMBUS HQ 450 GRANT ST., AKRON, OH 44311 P 330.375.1390 / TF 800.835.1390 W ENVDESIGNGROUP.COM



Know what's below. Call before you dig.

STORMWATER POLLUTION PREVENTION NOTES

1. THE CONTRACTOR SHALL USE EXISTING CONCRETE WASHOUT PIT LOCATED BLOCK C.

2. TEMPORARY SEDIMENT POND SHOWN HEREON SHALL BE REMOVED WITH APPROVAL FROM SUMMIT SOIL & WATER.

3. MAINTAIN SILT FENCE AND EROSION CONTROL MEASURES UNTIL 85% OF LANDSCAPE HAS BEEN ESTABLISHED.

LOCATED ON D WITH B5% OF THE			HUDSON DOWNTOWN PHASE 2A	PRIVATE DEVELOPMENT	TESTA COMPANIES
	7	NE	S 1	A	COMPANIES
			WA 69 <i>FSSION</i>	OF OF BERT J. RNER 931 STERE AL SUR	10 * 20 1
	DAT	E:			
	REV	ISIONS			
	<u>_</u>	DATE -	DESCR	IPTION	
	-		-		
	-	-	-		
	-	- -	- _		
	-	-	-		
	PROJ	ECT NO.:			17-00257-020
		WN BY:			NLM
	-	CKED BY:			RJW 2018-10-15
Plan			K E S	SWPI	P PLAN

C402

STORMWATER POLLUTION PREVENTION LEGEN

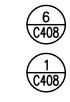
2 3 C408 C408

SILT FENCE SILT SOCK - 45 -----

INLET PROTECTION 78 C408 C408

EXISTING CONTOURS

TEMPORARY CONSTRUCTION DRIVE CONCRETE WASHOUT STATION

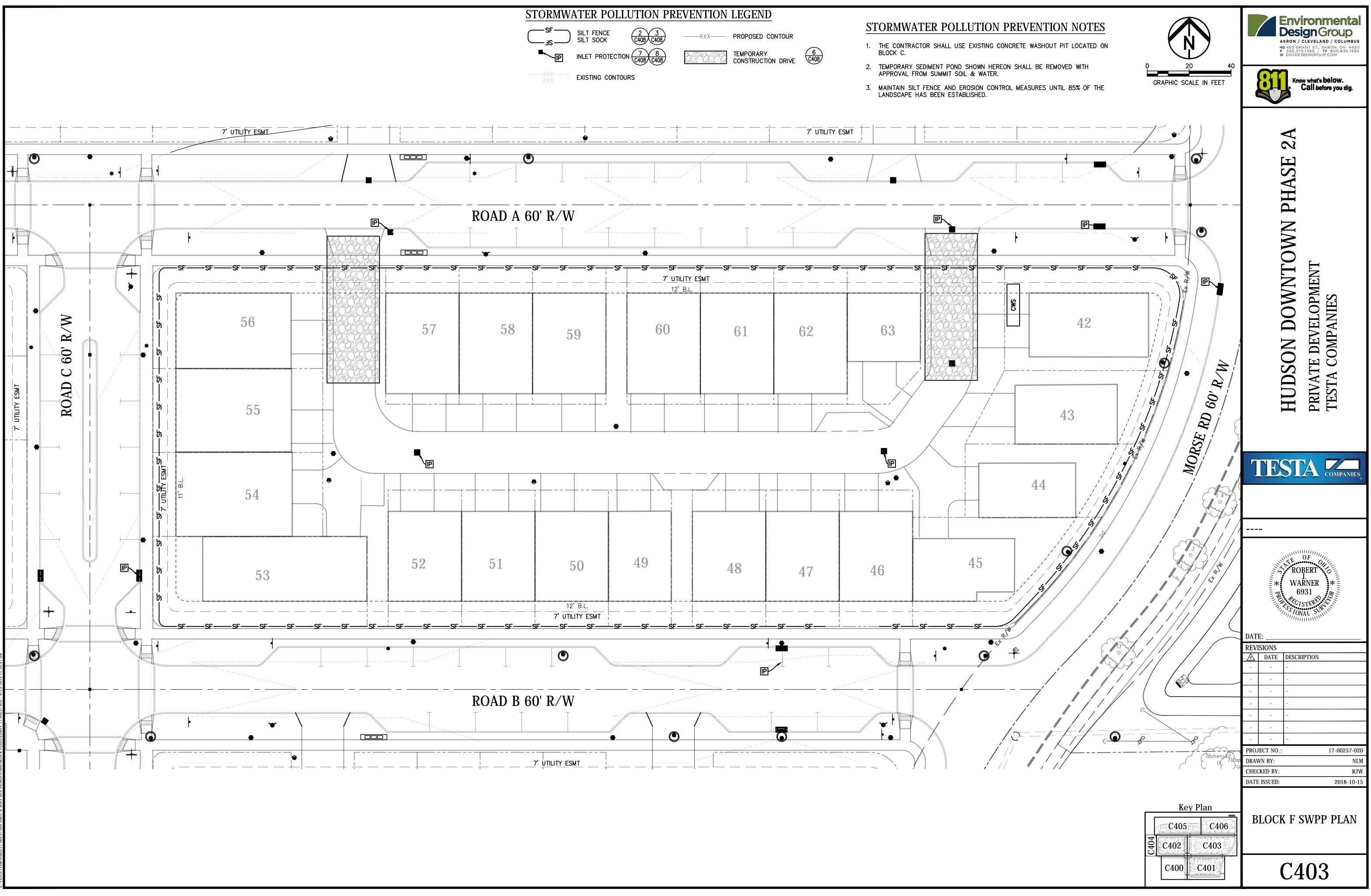


Key Plan

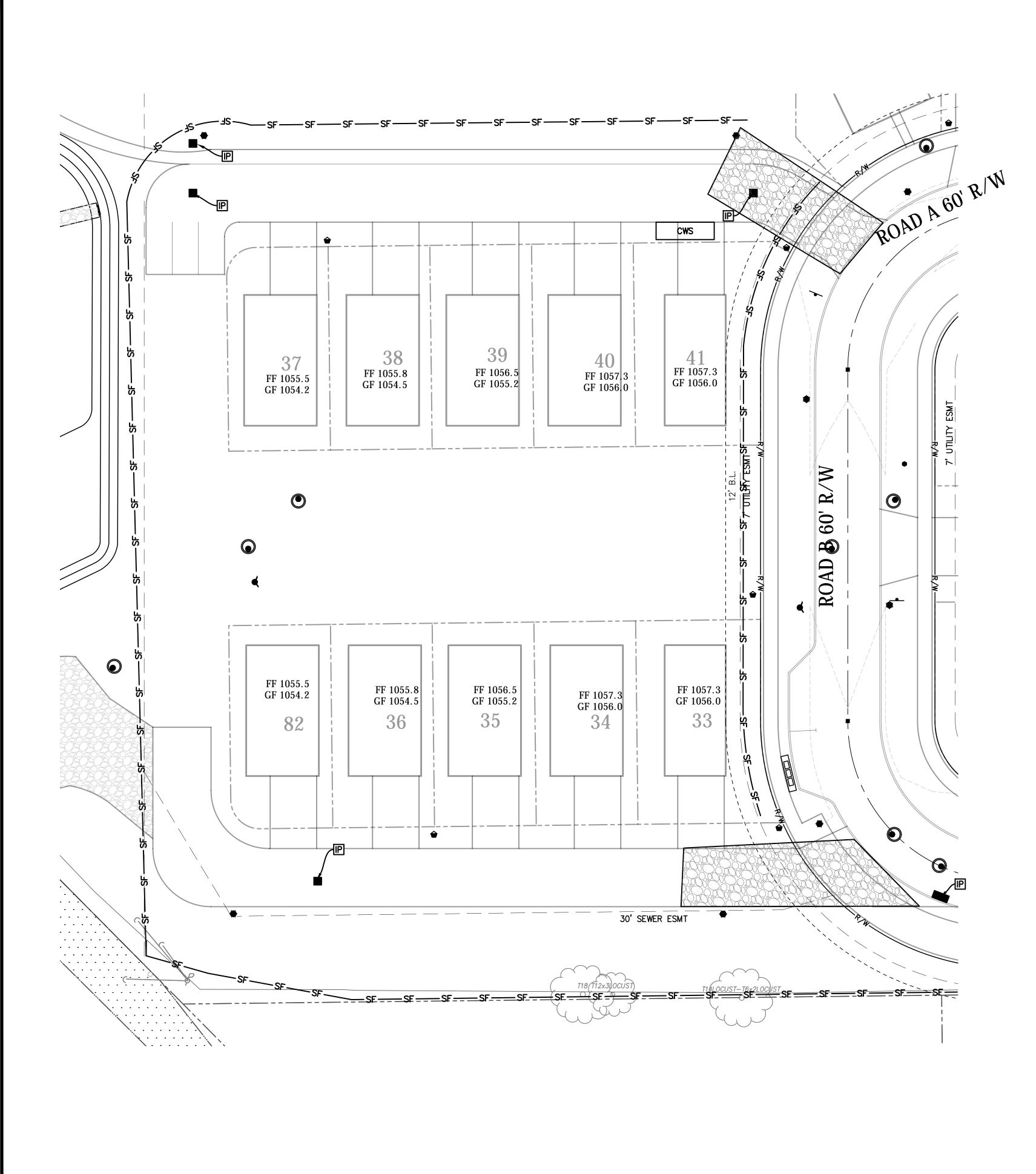
C400 C401

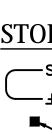
C405

C402

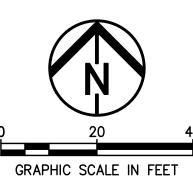


STA COMPANIES\17-00257-020 FIRST & MAIN SITE DESIGN\CADD\BLOCK PLANS\ZSWPP 17-00257-020 - 8





2	Ř	77	23	Ŕ
			(2







Know what's below. Call before you dig.

STORMWATER POLLUTION PREVENTION NOTES

1. THE CONTRACTOR SHALL USE EXISTING CONCRETE WASHOUT PIT LOCATED ON BLOCK C.

2. TEMPORARY SEDIMENT POND SHOWN HEREON SHALL BE REMOVED WITH APPROVAL FROM SUMMIT SOIL & WATER.

3. MAINTAIN SILT FENCE AND EROSION CONTROL MEASURES UNTIL 85% OF THE LANDSCAPE HAS BEEN ESTABLISHED.

STORMWATER POLLUTION PREVENTION LEGEND

SILT FENCE
SILT SOCK23C408C408C408INLET PROTECTION78C408C408C408

EXISTING CONTOURS

TEMPORARY CONSTRUCTION DRIVE CONCRETE WASHOUT STATION CWS



Key Plan

C400 C401

C406

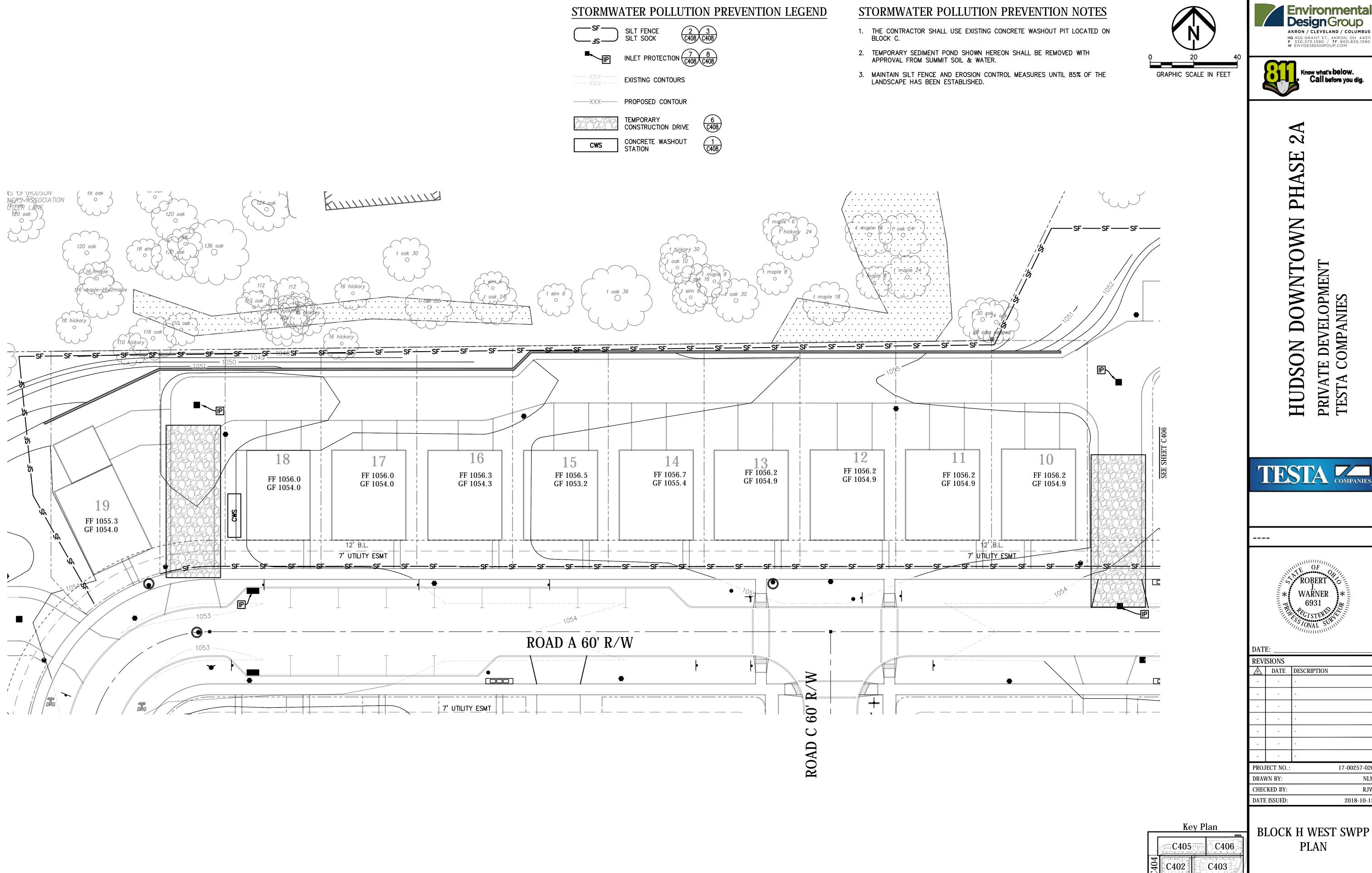
C403

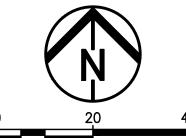
<u>₩₩₩₩₩₩</u>

C405

C402

		HUDSON DOWNTOWN PHASE 2A	PRIVATE DEVELOPMENT	TESTA COMPANIES				
1	NE	S1	Ά	COMPANIES				
	WARNER 6931 6931 6931							
DATI REVI								
 	DATE	DESCR	IPTION					
-	-	-						
-	- -	•						
-								
-	-							
	ECT NO.: VN BY:		_	17-00257-020 NLM				
	KED BY:			RJW				
DATE ISSUED: 2018-10-15 BLOCK G SWPP PLAN								
		.4	10^{2}	1				







17-00257-020

2018-10-15

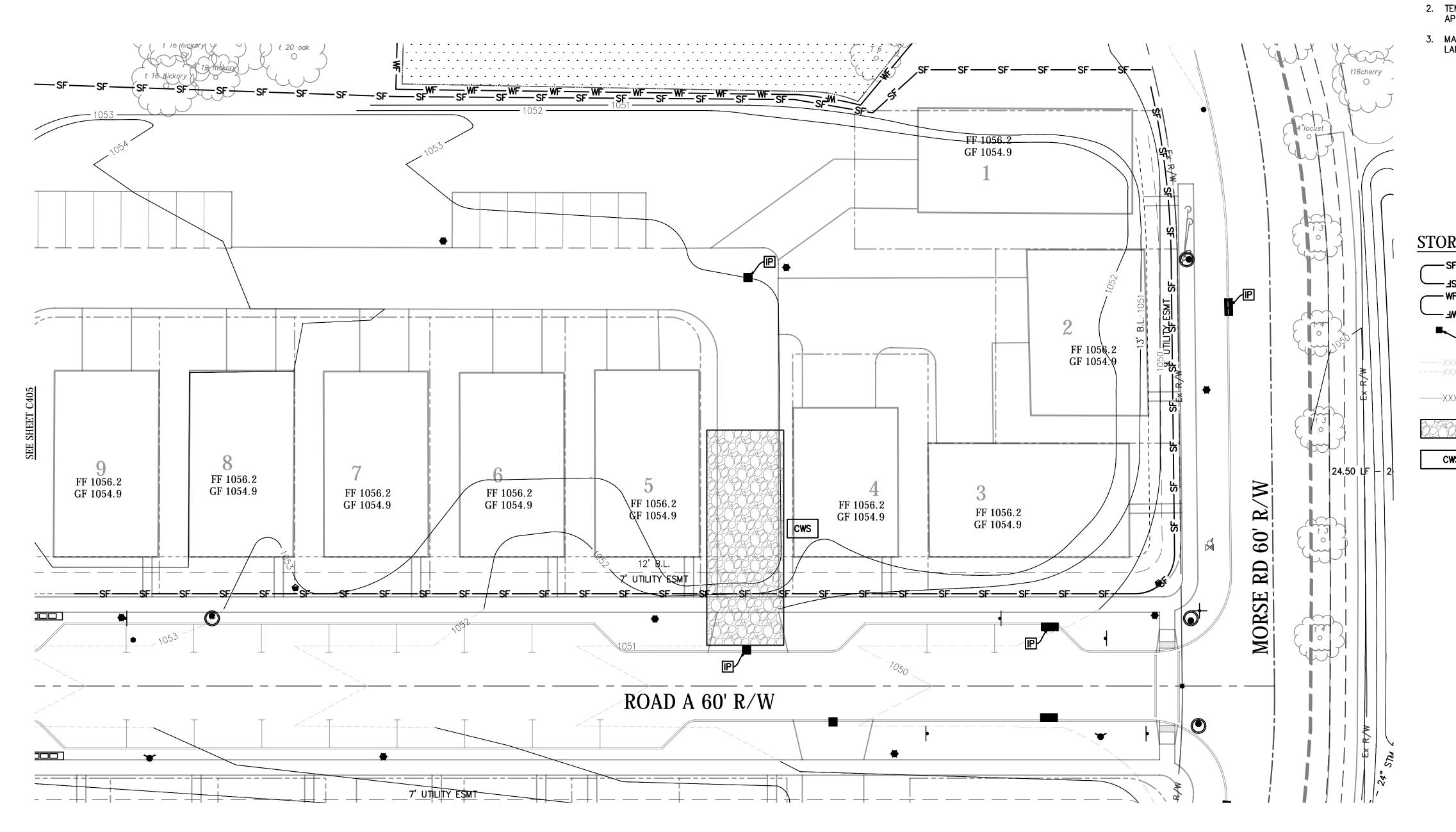
C405

C400

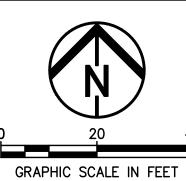
C401 ~_____

NLM

RJW











Know what's below. Call before you dig.

STORMWATER POLLUTION PREVENTION NOTES

1. THE CONTRACTOR SHALL USE EXISTING CONCRETE WASHOUT PIT LOCAT BLOCK C.

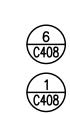
2. TEMPORARY SEDIMENT POND SHOWN HEREON SHALL BE REMOVED WITH APPROVAL FROM SUMMIT SOIL & WATER.

3. MAINTAIN SILT FENCE AND EROSION CONTROL MEASURES UNTIL 85% OF LANDSCAPE HAS BEEN ESTABLISHED.

TED ON			HUDSON DOWNTOWN PHASE 2A	PRIVATE DEVELOPMENT	TESTA COMPANIES					
]		S 1	A	COMPANIES					
		-								
		The S * PROPERTY	WA 69 69 69 69 69 69 69 69 69 69 69 69 69	OF OF BERT J. RNER 931 STERED AL SU						
	DAT	E:				-				
		SIONS	DECOD	Ιρτιονι						
	<u>#</u>	DATE	- DESCK	IPTION						
	-	-	-							
	-	-	<u>-</u>							
	-	-	- 							
	-									
	-	-	-							
		ECT NO.:			17-00257-02	_				
		VN BY:			NL	_				
		CKED BY: E ISSUED:			RJV 2018-10-1	_				
	В		PI	.AN	SWPP					
	C406									

STORMWATER POLLUTION PREVENTION LEGE

SF	SILT FENCE SILT SOCK	2 C408	3
	WETLAND PROTEC FENCE	TION	
	INLET PROTECTION	7 C408	8 C408
′XX-—— ′XX	EXISTING CONTOUR	RS	
XX	PROPOSED CONTO	UR	
	TEMPORARY CONSTRUCTION DR	RIVE	6 C408
ws	CONCRETE WASHO	UT	$\begin{pmatrix} 1 \\ C408 \end{pmatrix}$



Key Plan

C400 C401

╅┶╅╅┶╌╾╸

C405

C402

STORMWATER POLLUTION PREVENTION PLAN NOTES

- CONSTRUCT IN ACCORDANCE WITH THESE PLANS, THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT) STANDARD CONSTRUCTION DRAWING DM-4.4 AND THE OHIO RAINWATER AND LAND DEVELOPMENT HANDBOOK (2006). THE IMPLEMENTATION OF SOIL EROSION AND SEDIMENT CONTROL SHALL ALSO CONFORM TO THE REQUIREMENTS OF THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) UNDER NPDES PERMIT #OHCOOOO04. IF CONFLICTS EXIST REGARDING THE SOIL AND SEDIMENT CONTROL PRACTICES, THE MORE RESTRICTIVE SHALL APPLY.
- 2. STABILIZATION OF DISTURBED AREAS DISTURBED AREAS SHALL HAVE SOIL STABILIZATION APPLIED WITHIN SEVEN (7) DAYS IF THEY ARE TO REMAIN DORMANT (UNDISTURBED) FOR MORE THAN FOURTEEN (14) DAYS. FOR AREAS WITHIN FIFTY (50) FEET OF ANY LIVE STREAM, SOIL STABILIZATION PRACTICES SHALL BE INITIATED WITHIN TWO (2) DAYS ON ALL INACTIVE, DISTURBED AREAS. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DISTURBED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. WHEN SEASONAL CONDITIONS PROHIBIT THE APPLICATION OF TEMPORARY OR PERMANENT SEEDING, NON-VEGETATIVE SOIL STABILIZATION PRACTICES SUCH AS MULCHING AND MATTING SHALL BE USED.
- 3. INSTALL ALL EROSION/SEDIMENT CONTROL ITEMS BEFORE ANY CLEARING/GRUBBING OR EARTHWORK HAS STARTED.
- 4. PROTECT UNDISTURBED AREAS THROUGHOUT CONSTRUCTION. DO NOT STORE EQUIPMENT, VEHICLES OR MATERIALS IN THESE PROTECTED AREAS.
- 5. SEEDING AND FERTILIZER FOR PERMANENT COVER SHALL BE AS SPECIFIED IN ODOT CMS ITEM 659.
- 6. MULCHING SHALL BE AS SPECIFIED IN ODOT CMS ITEM 659.
- 7. TOPSOILING SHALL BE AS SPECIFIED IN ODOT CMS ITEM 659.
- 8. EXCELSIOR MATTING/EROSION CONTROL BLANKETS WILL BE USED ON TEMPORARY DIVERSION CHANNELS AND DITCHES GREATER THAN 1.5% AND ALL OTHER SLOPES STEEPER THAN 6%. EXCELSIOR MATTING/EROSION BLANKETS SHALL BE AS SPECIFIED ON THE PLANS.
- 9. SILT FENCE AND/OR SILT SOCK SHALL BE AS DETAILED ON THE DRAWINGS AND AS SPECIFIED ON THE PLANS.
- 10. ROCK CHANNEL PROTECTION SHALL BE AS SPECIFIED IN ODOT CMS ITEM 601, TYPE C ROCK.
- 11. NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORMWATER RUNOFF.
- 12. OFF-SITE VEHICLE TRACKING OF SEDIMENTS WILL BE MINIMIZED. ALL OFF-SITE TRACKING OF SEDIMENT SHALL BE CLEANED UP AS IT OCCURS.
- 13. SILT FENCE WILL BE USED FOR TEMPORARY EROSION CONTROL.
- 14. OTHER EROSION CONTROL AND SEDIMENT CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS.
- 15. A PRE-CONSTRUCTION MEETING IS REQUIRED WITH SUMMIT S.W.C.D. (330-929-2871) PRIOR TO BEGINNING WORK.
- 16. TRUCK WASHOUT AND DISCHARGE OF SURPLUS WASH WATER ON SITE IS PERMITTED EXCLUSIVELY IN THE DESIGNATED AREA.
- 17. WINTERIZATION ANY DISTURBED AREA THAT IS NOT GOING TO BE WORKED FOR 14 DAYS OR MORE MUST BE SEEDED AND MULCHED BY NOVEMBER 1 OR MUST HAVE A DORMANT SEEDING OR MULCH COVER APPLIED BETWEEN NOVEMBER 1 AND MARCH 1.
- 18. TRENCH WATER MUST BE PUMPED THROUGH A SEDIMENT SETTLING FACILITY OR EQUALLY EFFECTIVE DEVICE PRIOR TO DISCHARGE FROM THE SITE.
- 19. STAGING, STORAGE, FUELING AND VEHICLE PARKING ARE SHOWN ON THE SWPP PLAN, IF THE CONTRACTOR WANTS TO UTILIZE A DIFFERENT LOCATION FOR THESE FUNCTIONS, HE SHALL REVISE THE SWPP PLAN AND SUBMIT IT TO SUMMIT S.W.C.D. FOR APPROVAL.
- 20. THE CONTRACTOR IS RESPONSIBLE FOR ALL EROSION AND SEDIMENT CONTROL MEASURES.
- 21. DISTURBED AREAS REMAINING DORMANT FOR OVER A YEAR AT THE FINAL GRADE WILL HAVE A PERMANENT COVER APPLIED WITHIN 7 DAYS OF LAST DISTURBANCE.

MAINTENANCE AND INSPECTION:

PERMANENT RECORDS OF MAINTENANCE AND INSPECTION MUST BE MAINTAINED THROUGHOUT CONSTRUCTION A MINIMUM OF ONCE EVERY 7 DAYS AND AFTER STORM EVENTS GREATER THAN 0.5 INCH IN A 24 HOUR PERIOD. PROVIDE NAME OF INSPECTOR, MAJOR OBSERVATIONS, DATE OF INSPECTION, CERTIFICATION OF COMPLIANCE AND CORRECTIVE MEASURES TAKEN.

<u>REPAIRS:</u>

ANY EROSION CONTROL MEASURES, STRUCTURES, DEVICES, OR RELATED ITEMS IN NEED OF REPAIR WILL BE MADE WITHIN 7 DAYS.

MATERIAL MANAGEMENT PRACTICES:

THE FOLLOWING PRACTICES SHALL BE EXECUTED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORMWATER RUN-OFF. THE JOB SITE SUPERINTENDENT IS RESPONSIBLE FOR ENSURING THESE PRACTICES ARE FOLLOWED:

- 1. STORE THE MINIMUM AMOUNT OF PRODUCT REQUIRED TO COMPLETE THE JOB, IF POSSIBLE, UNDER ROOF OR IN A CONTAINMENT AREA. PRODUCTS SHALL REMAIN IN THEIR ORIGINAL CONTAINER. LABEL MUST BE LEGIBLE
- 2. MANUFACTURER'S RECOMMENDATION SHALL BE FOLLOWED FOR USE AND DISPOSAL.
- 3. PRODUCT TO BE USED ENTIRELY (WHEN POSSIBLE) PRIOR TO DISPOSING.
- 4. MATERIAL SAFETY DATA SHEETS (MSDS) FOR EACH SUBSTANCE WITH HAZARDOUS PROPERTIES USED ON THE SITE SHALL BE OBTAINED AND POSTED IN THE IMMEDIATE AREA OF PRODUCT STORAGE AND SHALL BE USED FOR PROPER MANAGEMENT OF POTENTIAL WASTE.
- 5. ALL HAZARDOUS WASTE MATERIAL WILL BE DISPOSED BY THE CONTRACTOR IN A MANNER SPECIFIED BY LOCAL, STATE OR FEDERAL REGULATIONS AND PER MANUFACTURERS RECOMMENDATIONS.
- 6. ALL PERSONNEL SHALL BE TRAINED IN THE PROPER HANDLING AND CLEAN UP OF SPILLED MATERIALS. NO SPILLED HAZARDOUS MATERIALS OR WASTE SHALL BE ALLOWED TO COME IN CONTACT WITH STORMWATER DISCHARGES. IF NECESSARY, THE CONTAMINATED STORMWATER WILL BE HELD ON SITE UNTIL IT MEETS LOCAL, STATE AND FEDERAL REGULATIONS.
- 7. IN THE EVENT OF A SPILL THE FOLLOWING PROCEDURES MUST BE FOLLOWED: A. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
- THE PROJECT MANAGER AND ENGINEER OF RECORD IMMEDIATELY NOTIFIED. C. ANY SPILLS OF TOXIC OR HAZARDOUS MATERIALS MUST BE REPORTED TO THE APPROPRIATE LOCAL, STATE AND FEDERAL AGENCY. THE EPA NATIONAL RESPONSE CENTER (1-800-424-8802) MUST BE NOTIFIED WHEN A SPILL EXCEEDS THE REPORTABLE QUANTITY OF A SUBSTANCE. THE SUBSTANCES AND AMOUNTS ARE LOCATED IN FEDERAL REGULATIONS (40 CFR 110, 114 AND 302).
- D. IF A SPILL EXCEEDS A REPORTABLE QUANTITY, THE SWPP PLAN MUST BE MODIFIED WITHIN 7 DAYS PROVIDING A DESCRIPTION, DATE AND INCIDENT OF THE RELEASE.
- 8. THE MIXING OR STORAGE OF COMPOUNDS SUCH AS FERTILIZERS, LIME ASPHALT, SOAPS AND SOLVENTS USED IN CLEANING VEHICLES, WASHOUT OF CONCRETE, PAINT OR STUCCO, FORM RELEASE OILS, OR CURING COMPOUNDS SHALL BE AWAY FROM STORM WATER DRAINAGE WAYS.
- 9. FUEL TANKS MUST HAVE SECONDARY CONTAINMENT IN THE EVENT OF A LEAK OR SPILL.
- 10. OPEN BURNING ON SITE IS A PROHIBITED ACTIVITY.
- 11. ALL CONSTRUCTION AND DEMOLITION DEBRIS (C&DD) WASTE SHALL BE DISPOSED OF AT AN OHIO EPA APPROVED C&DD LANDFILL AS REQUIRED BY OHIO REVISED CODE 3714 AND LOCAL REGULATIONS.

PRODUCT SPECIFIC PRACTICES:

- 1. PETROLEUM PETROLEUM PRODUCTS WILL BE STORED IN CLEARLY LABELED TIGHTLY SEALED CONTAINERS. ANY ON SITE PETROLEUM STORAGE TANKS WILL HAVE A CONTAINMENT STRUCTURE AROUND IT FOR POTENTIAL SPILLS. DRIP PANS SHALL BE PROVIDED FOR ALL DISPENSERS. MANUFACTURER'S RECOMMENDATIONS SHALL BE FOLLOWED WHEN ANY ASPHALT SUBSTANCES ARE USED ON SITE.
- 2. FERTILIZERS THE MANUFACTURER'S RECOMMENDED MINIMAL AMOUNTS SHALL BE APPLIED AND WORKED INTO THE SOIL TO LIMIT THE EXPOSURE TO STORMWATER. THE CONTENTS OF ANY PARTIALLY USED BAGS WILL BE TRANSFERRED TO SEALABLE PLASTIC BINS AND STORED UNDER COVER. AWAY FROM STORMWATER DRAINAGE WAYS.

SITE LOCATION INFORMATION		41 ° 14'39"N 081°26'46"W	
CITY OF HUDSON	SUMMIT	OH	
CITY, VILLAGE, TOWNSHIP	COUNTY	STATE	
BRANDYWINE CREEK			
NAME OF WATERSHED/IMMEDIATE RECEIVING WATER(S)			
OWEN BROWN ST. HUDSON, OH			
SITE ADDRESS			
PETROS DEVELOPMENT GROUP LTD.	440-54	6-9000	
DEVELOPER	PHONE		
10474 BROADVIEW RD. BROADVIEW HEIGHTS, OH 44147			
DEVELOPER ADDRESS			
HYDROLOGIC SOIL GROUPS:			
MAP UNIT SYMBOL (SOIL TYPE), MAP UNIT NAME (SOIL	DESCRIPTION)		
Tr — Trumbull silt loam, 0 to 2 percent slopes			
MgA — Mahoning silt loam, 0 to 2 percent slopes			
MgB — Mahoning silt loam, 2 to 6 percent slopes			
Mn — Mahoning—Urban land complex, 0 to 2 percent sl	opes		
EIC2 — Ellsworth silt loam, 6 to 12 percent slopes, ero	ded		
Uf — Udorthents, sanitary landfill			

SITE DESCRIPTION

	MARK ONE	TOTAL AREA	-	16.6 AC
SUBDIVISION	_	PRE-DEV CURVE NO.	-	XX
COMMERCIAL	-	POST DEV CURVE NO.	-	XX
RESIDENTIAL	• -	AREA TO BE CLEARED	-	XX.X AC
PUD	-	AREA TO BE EXCAVATED	-	9.76 AC
OTHER	-	PRE-DEV IMPERVIOUSNESS	-	57%
		POST DEV IMPERVIOUSNESS	-	XX %



SOILS MAP

SCHEDUL

CLEARING/DEMOLIT ROUGH GRADING

STRUCTURE

UTILITIES FINE GRADING PAVING TOPSOIL AND SEED

LANDSCAPING POST CONSTRUCTION

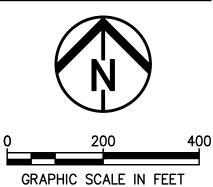
TEMPORARY EROSIO

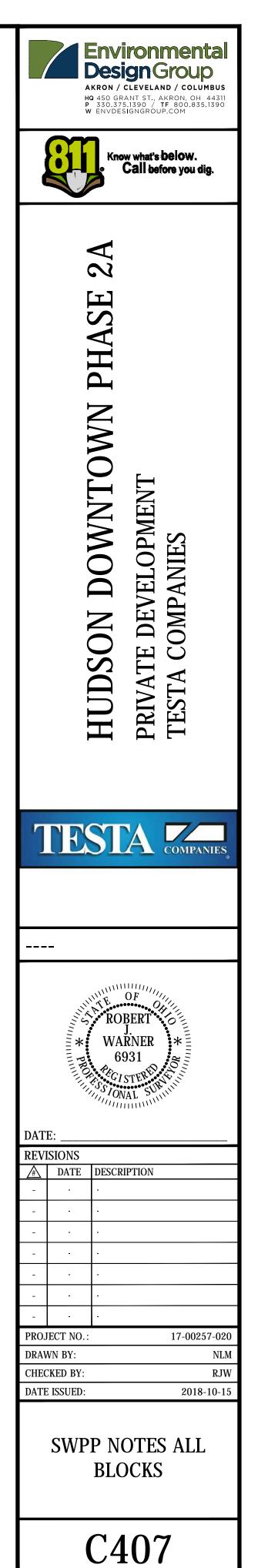
ACCEP

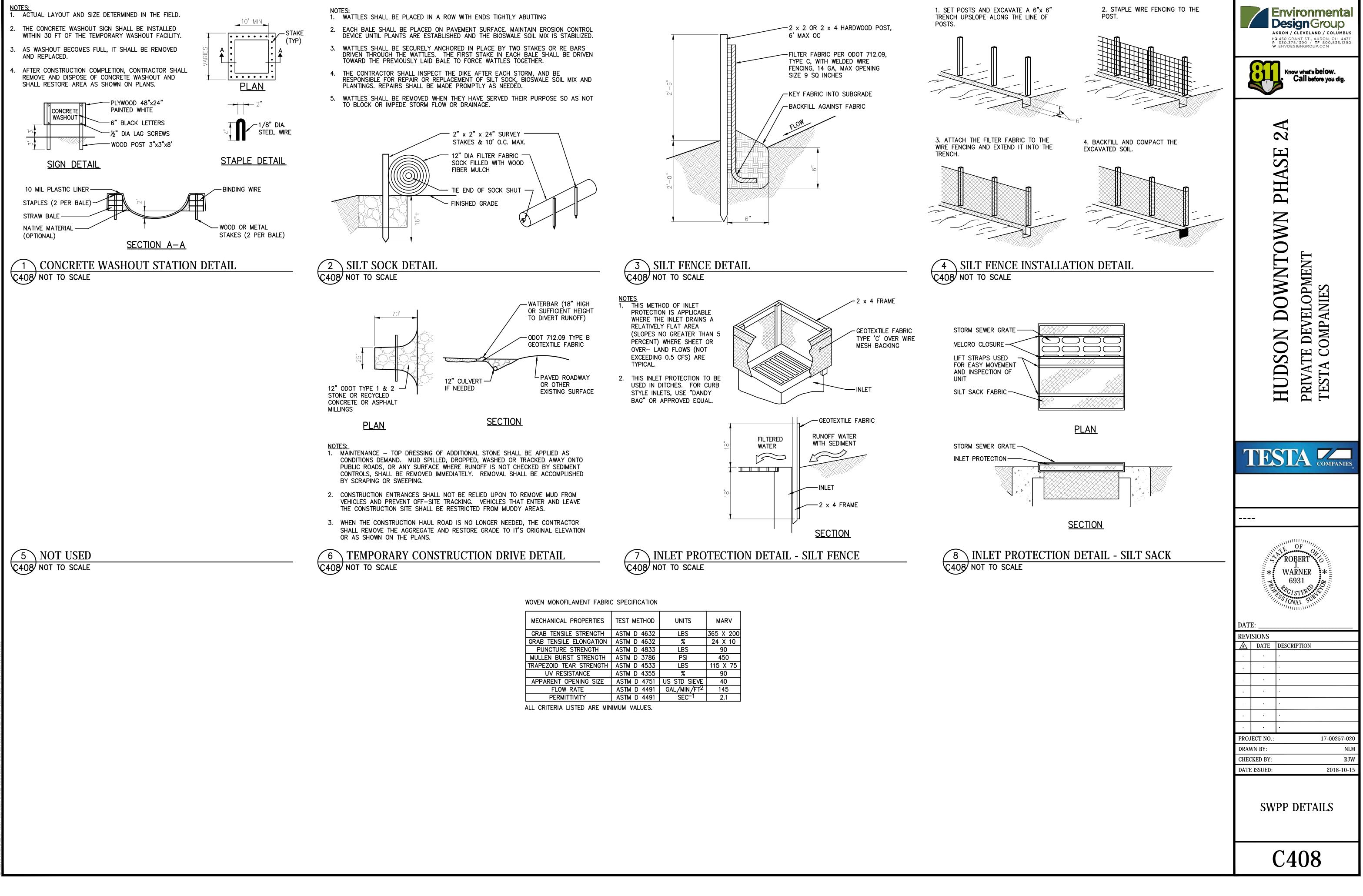
TEMPORARY SEEDIN PERMENANT SEEDII LANDSCAPING MULCHING MAINTENANCE

E OF MAJ	OR	CC	N S	TR	UC	TIC	DN	OI	PE	RA	ΓΙΟ	NS	
		20)20						20	19			
	J	F	М	Α	М	J		l	Α	S	0	N	D
TION													
									•				
					\bot								
					1								
						_		▶	•	•			
			<u> </u>			+-		\rightarrow					
						+		\rightarrow					
DING			<u> </u>			_		-+					
ON BMPS						+-		-+					
UN DMP3						+	_	+					
ION CONTROL	•	•	•	•	•				•	•	•	•	•
		-				•	•	•		-			
TABLE ER	OSI	ON	CC)N7	ΓRO	DL	TIN	/IE'	TA	BL	E		
	J	F	М	Α	М	J	J	A		6 () N	I C	
NG	•	•	•	•	•	•	•	•					
NG	•	•			•	•							
		•		•	•	•	•						

• • • • • • • • • • • • • • • •







MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
GRAB TENSILE STRENGTH	ASTM D 4632	LBS	365 X 200
GRAB TENSILE ELONGATION	ASTM D 4632	%	24 X 10
PUNCTURE STRENGTH	ASTM D 4833	LBS	90
MULLEN BURST STRENGTH	ASTM D 3786	PSI	450
TRAPEZOID TEAR STRENGTH	ASTM D 4533	LBS	115 X 75
UV RESISTANCE	ASTM D 4355	%	90
APPARENT OPENING SIZE	ASTM D 4751	US STD SIEVE	40
FLOW RATE	ASTM D 4491	GAL/MIN/FT ²	145
PFRMITTIVITY	ASTM D 4491	SEC-1	2.1