

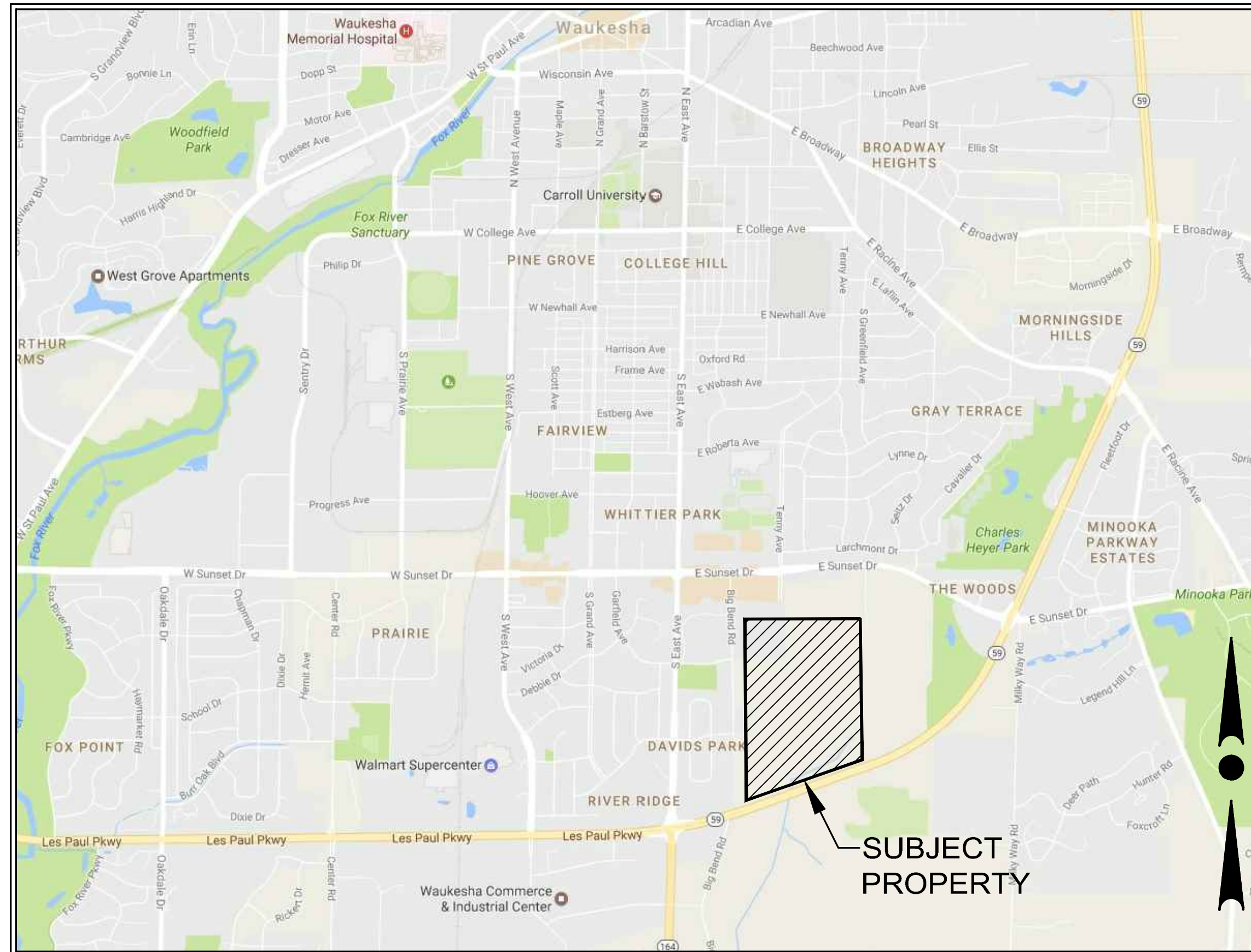
GENERAL NOTES

- THE LATEST EDITIONS OF THE FOLLOWING DOCUMENTS AND ANY SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS ON THIS PLAN UNLESS OTHERWISE NOTED.
 - STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, 6TH EDITION (SSSWC)
 - THE WISCONSIN D.O.T. STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION
 - MNR STORMWATER RUNOFF TECHNICAL STANDARDS.
 - MSDOT PAL APPROVED EROSION CONTROL MEASURES LIST, LATEST EDITION.
 - CITY OF WAUKESHA STANDARDS & REQUIREMENTS FOR DEVELOPMENT, LATEST EDITION.
- THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO MINIMIZE EROSION, WATER POLLUTION AND SILTATION CAUSED BY CONSTRUCTION OF THIS PROJECT. EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH WISCONSIN DEPARTMENT OF NATURAL RESOURCES TECHNICAL STANDARDS.
- EROSION CONTROL PLAN: PRIOR TO BEGINNING WORK, AN APPROVED EROSION CONTROL PLAN WILL BE PROVIDED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY IMPLEMENTING THE APPROVED PLAN.
- THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS OF THE BENCHMARKS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ALSO FIELD VERIFY LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES, AND VERIFY FLOOR, CURB OR PAVEMENT ELEVATIONS WHERE MATCHING INTO EXISTING WORK. THE CONTRACTOR SHALL FIELD VERIFY HORIZONTAL CONTROL BY REFERENCING SHOWN COORDINATES TO KNOWN PROPERTY LINES. NOTIFY ENGINEER OF DISCREPANCIES IN EITHER VERTICAL OR HORIZONTAL CONTROL PRIOR TO PROCEEDING WITH WORK.
- THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION (CALL DIGGERS HOTLINE AT 800-242-8511). COST OF REPLACEMENT OR REPAIR OF EXISTING UTILITIES DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATION SHALL BE THE CONTRACTOR'S RESPONSIBILITY
- EXISTING UTILITY INFORMATION IS SHOWN FROM SURVEY WORK, FIELD OBSERVATIONS, AVAILABLE PUBLIC RECORDS, AND AS-BUILT DRAWINGS. EXACT LOCATIONS AND ELEVATIONS OF UTILITIES SHALL BE DETERMINED PRIOR TO INSTALLING NEW WORK. EXCAVATE TEST PITS AS REQUIRED.
- PROPERTY CORNERS SHALL BE CAREFULLY PROTECTED UNTIL THEY HAVE BEEN REFERENCED BY A PROFESSIONAL LAND SURVEYOR. PROPERTY MONUMENTS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- ENGINEER SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF PERFORMING ANY CONSTRUCTION.
- ALL TRENCHING SHALL BE PERFORMED ACCORDING TO OSHA STANDARDS.
- ALL ITEMS SHALL INCLUDE ALL THE NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE.
- THE CONTRACTOR SHALL CLEAN ALL ADJACENT STREETS OF ANY SEDIMENT OR DEBRIS AS REQUIRED BY MUNICIPAL ORDINANCE.

STANDING STONE SUBDIVISION

PRELIMINARY SITE DEVELOPMENT PLANS

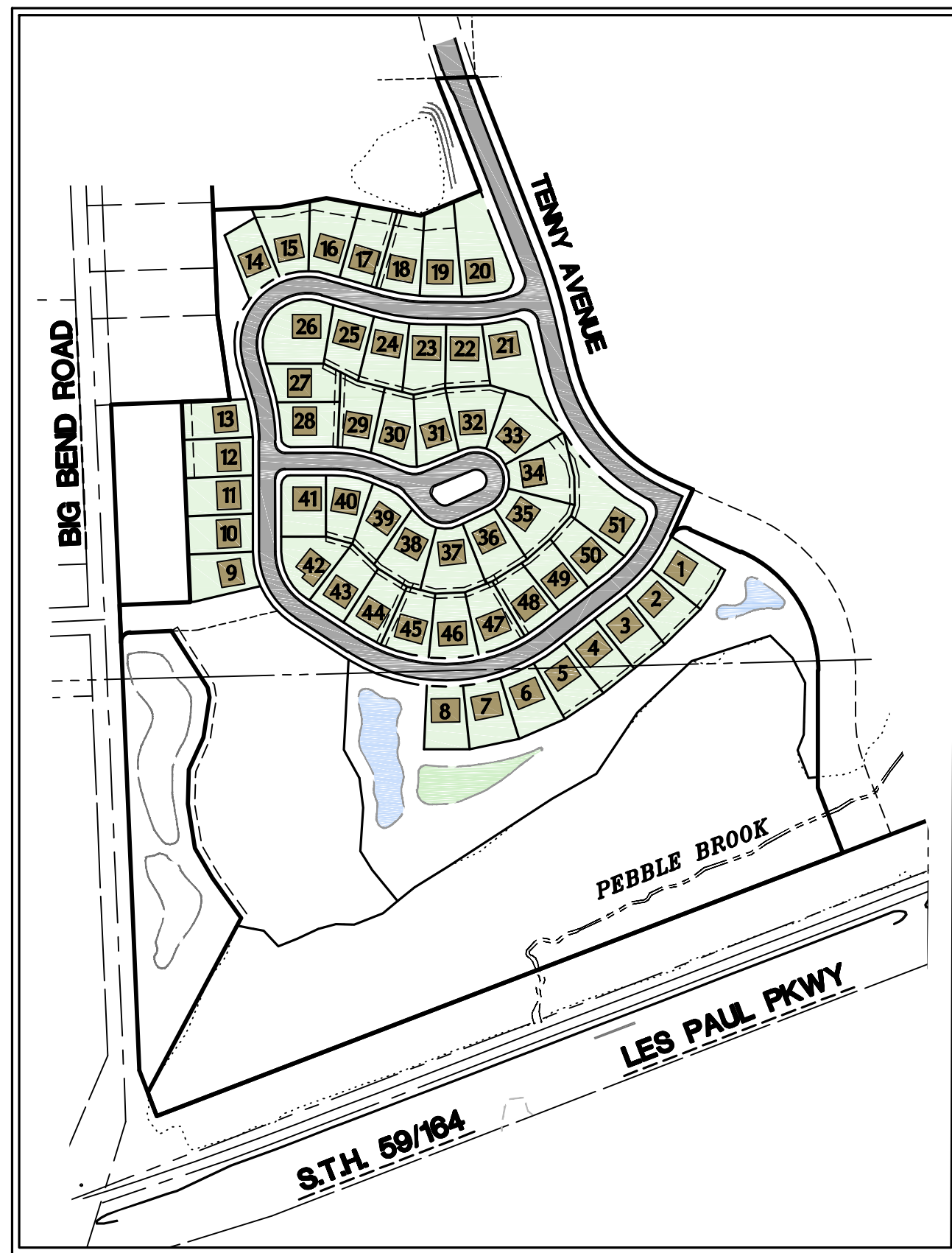
CITY OF WAUKESHA, WISCONSIN



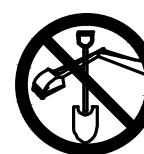
LOCATION MAP
NOT TO SCALE

DEVELOPER:
R F SMART DEVELOPMENT LLC
144 W. BROADWAY AVENUE
WAUKESHA, WI 53186
PHONE: (262) 547-7755

ENGINEER / SURVEYOR:
TRIO ENGINEERING, LLC
12660 W. NORTH AVE, BLDG. D
BROOKFIELD, WISCONSIN 53005
PHONE: (262) 790-1480
FAX: (262) 790-1481



SITE PLAN
1"=300'



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CALL DIGGERS HOTLINE 1-800-242-8511

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C1.3	- PRELIMINARY SITE PLAN - SOUTH
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C6.0	- CONSTRUCTION DETAILS
C6.1	- PROJECT SPECIFICATIONS



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EMAIL: jpuudelko@trioeng.com

PROJECT:
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REVISION HISTORY

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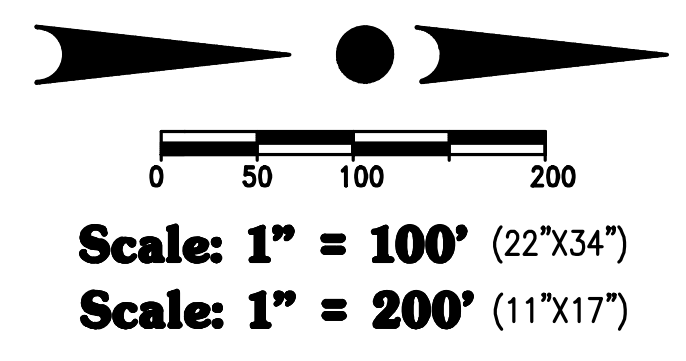
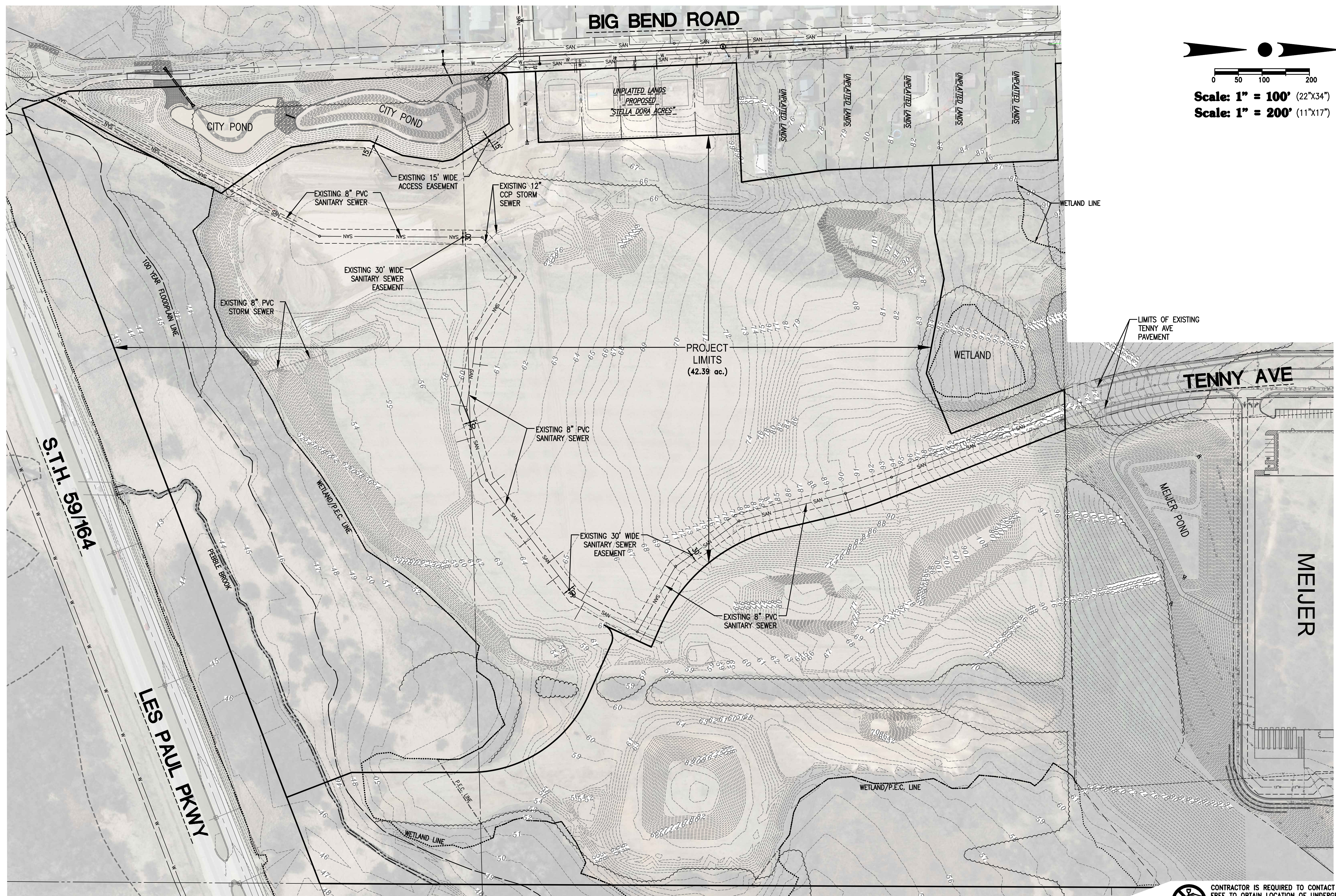
JOB NUMBER:
12011

DESCRIPTION:
COVER SHEET

SHEET

T1

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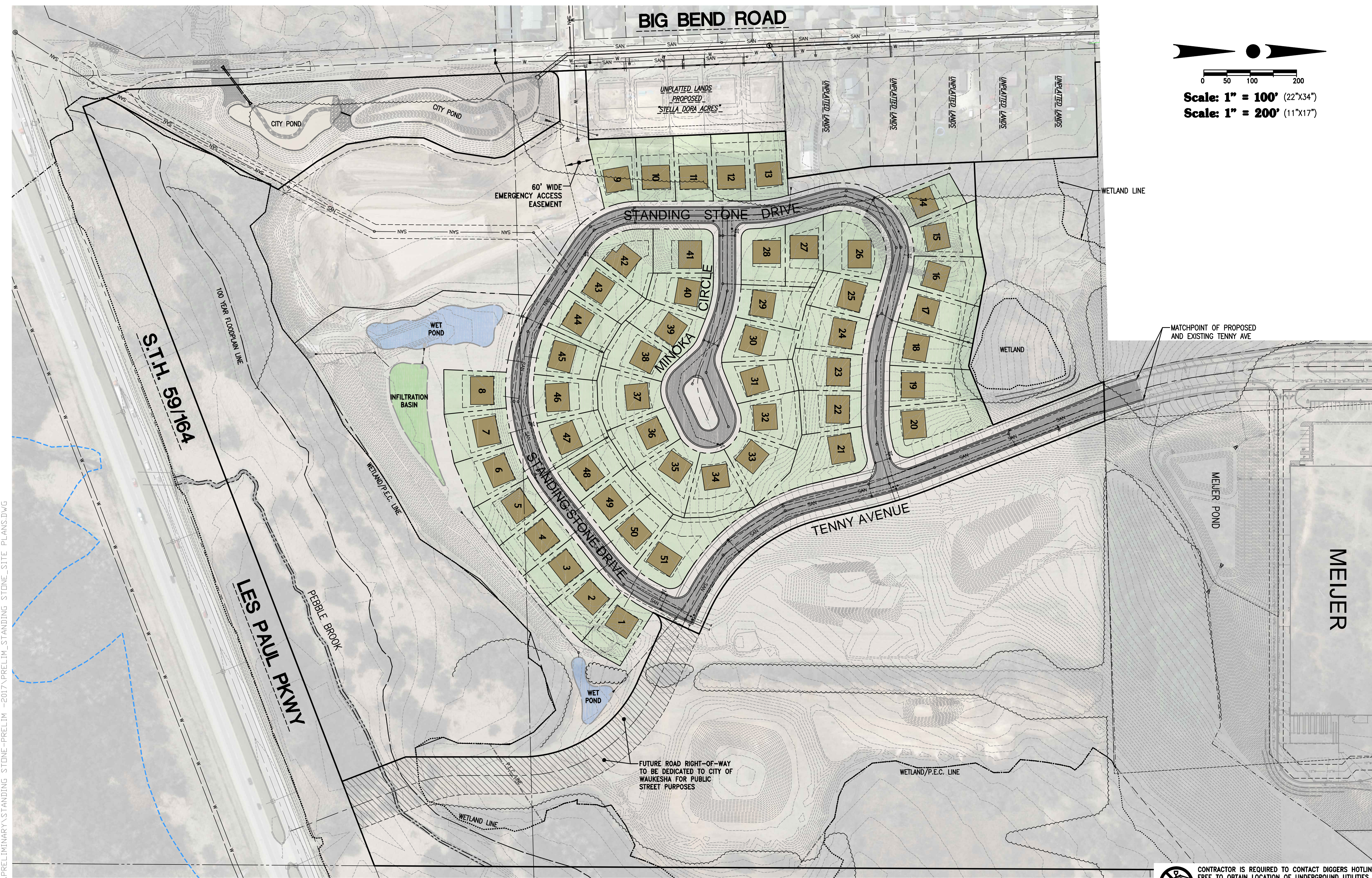
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DESCRIPTION:
 EXISTING
 SITE PLAN

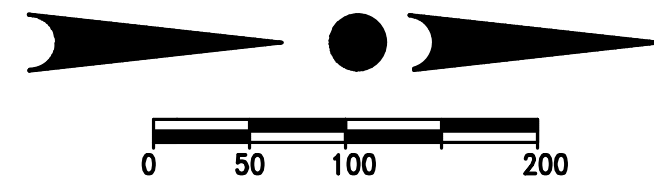
SHEET

C1.0

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BIG BEND ROAD



Scale: 1" = 100' (22"x34")
Scale: 1" = 200' (11"x17")



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DESCRIPTION:
 OVERALL
 PRELIMINARY
 SITE PLAN

SHEET

C1.1

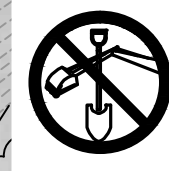
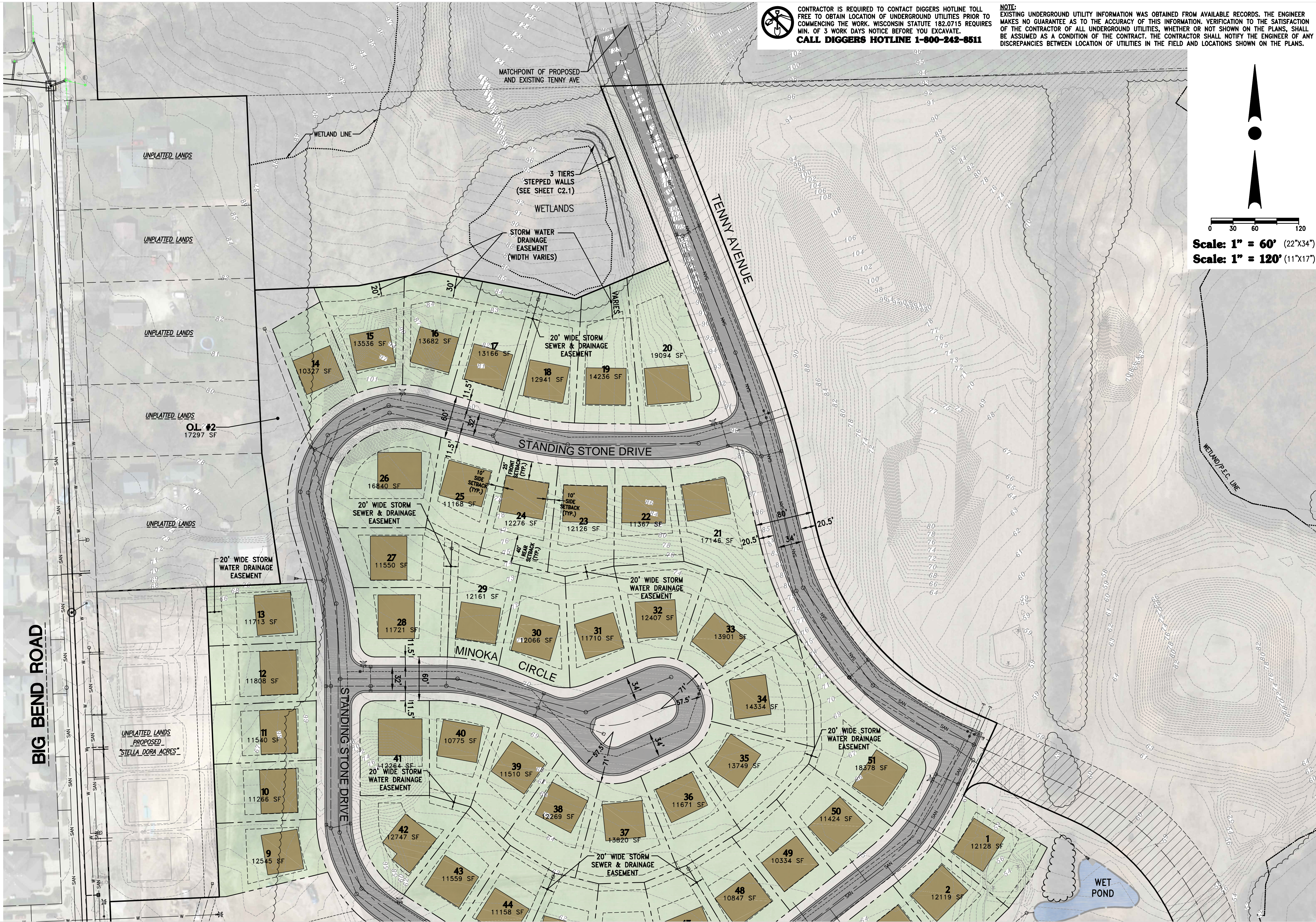


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Scale: 1" = 120' (11"x17')



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PROJECT:
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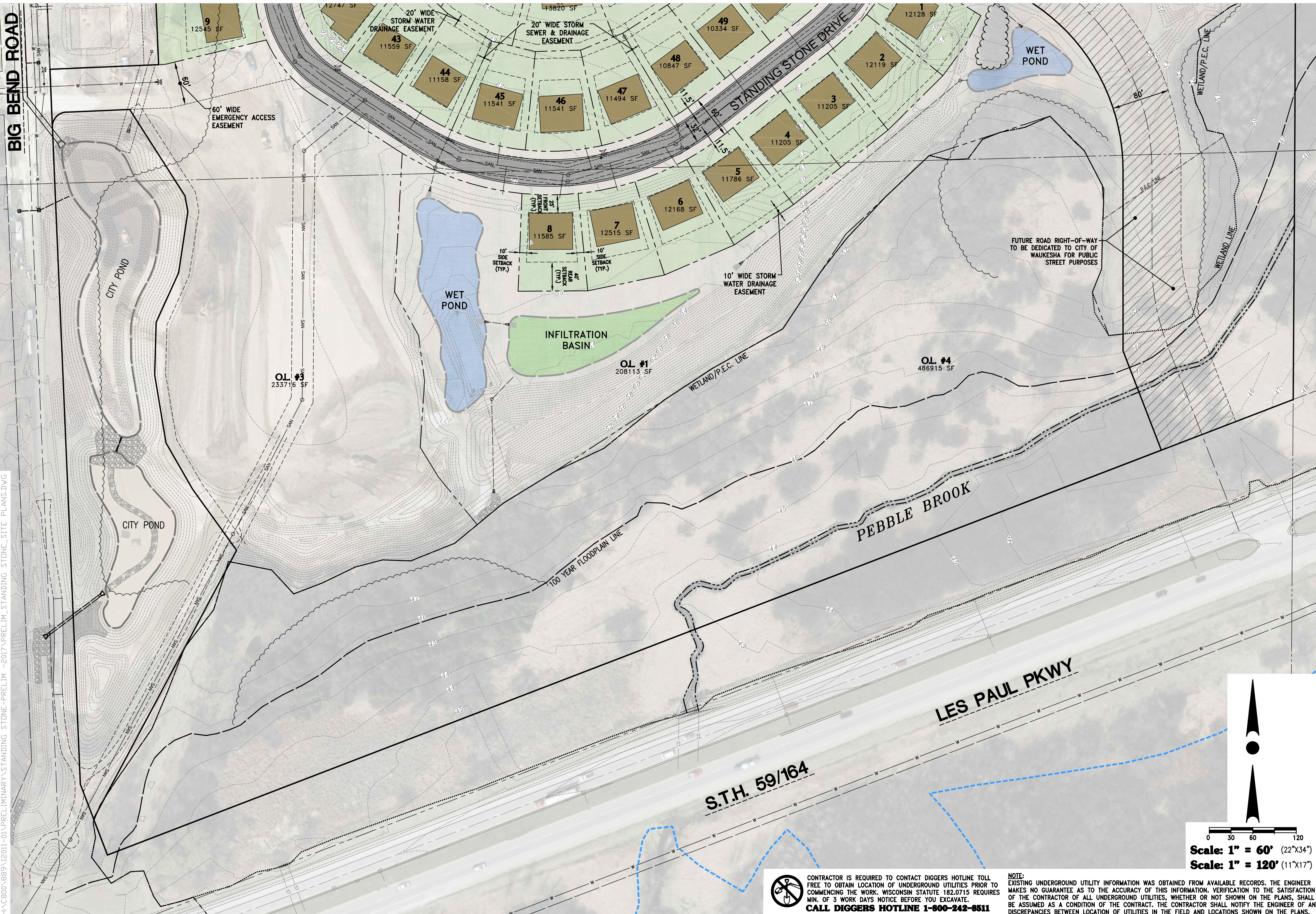
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PRELIMINARY
SITE PLAN
NORTH

SHEET

C1.2

BIG BEND ROAD

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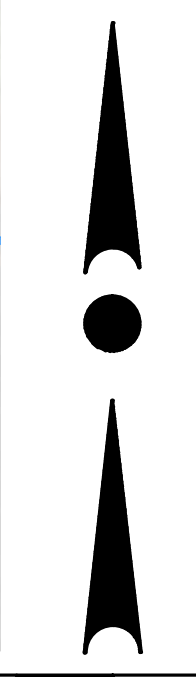
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DESCRIPTION:
 PRELIMINARY
 SITE PLAN
 SOUTH

SHEET

C1.3

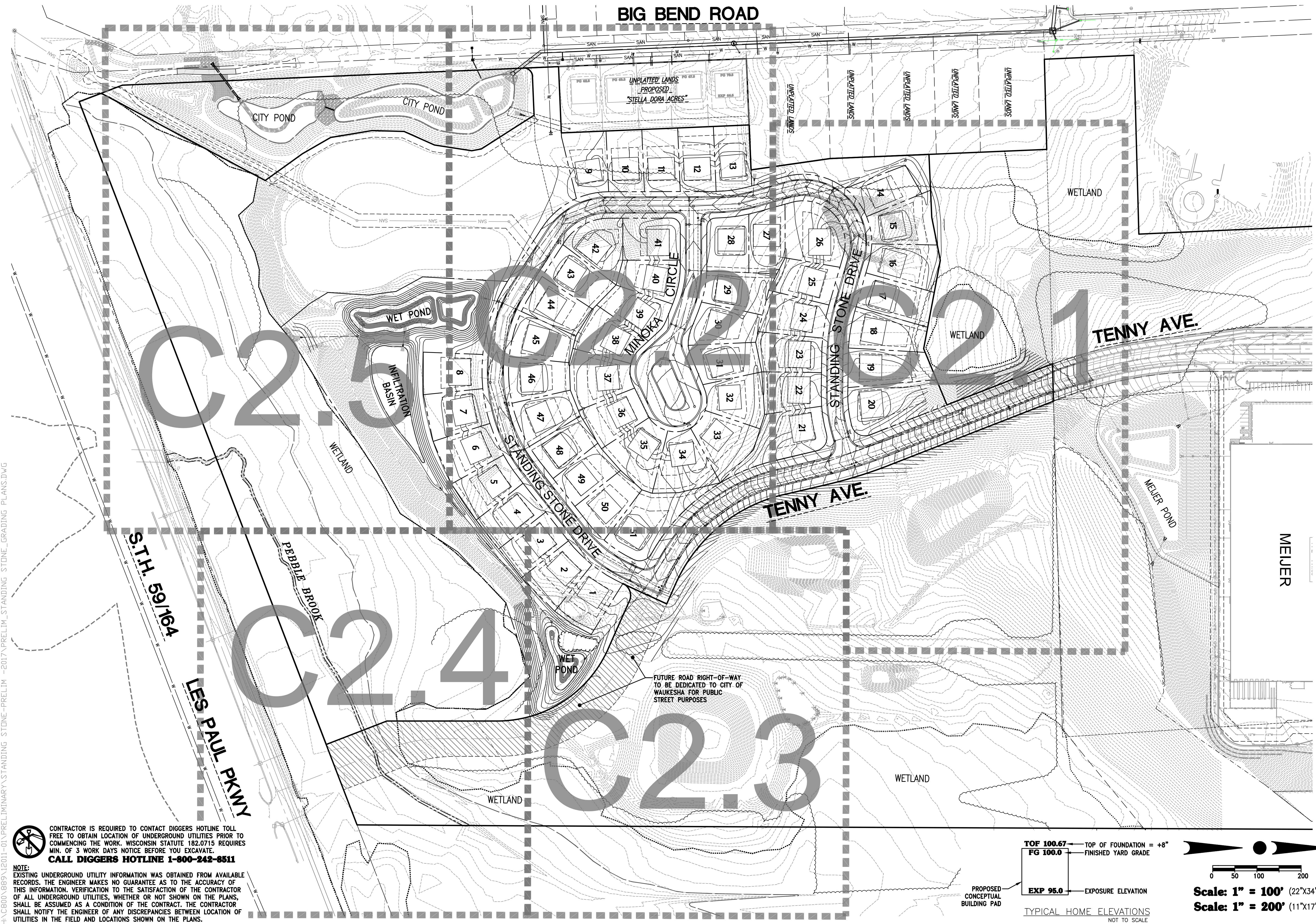


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BIG BEND ROAD

CITY POND

CITY POND

WET POND

INFILTRATION
BASIN

WETLAND

PEBBLE BROOK

FUTURE ROAD RIGHT-OF-WAY
TO BE DEDICATED TO CITY OF
WAUKESHA FOR PUBLIC
STREET PURPOSES

WETLAND

WETLAND

WETLAND

WETLAND

MEIJER POND

MEIJER

TENNY AVE.

TENNY AVE.

STANDING STONE DRIVE

STANDING STONE DRIVE

MIMOKA
CIRCLE

S.T.H. 59/16/14

LES PAUL PKWY

UNPLATTED LANDS
PROPOSED
"STELLA DORA ACRES"

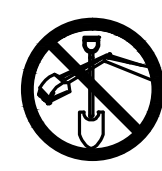
UNPLATTED LANDS

UNPLATTED LANDS

UNPLATTED LANDS

UNPLATTED LANDS

UNPLATTED LANDS



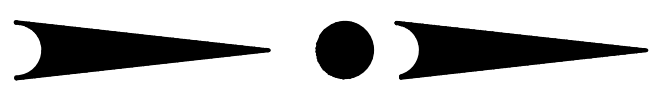
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TOP 100.67 — TOP OF FOUNDATION = +8"
FG 100.0 — FINISHED YARD GRADE
EXP 95.0 — EXPOSURE ELEVATION

PROPOSED
CONCEPTUAL
BUILDING PAD

TYPICAL HOME ELEVATIONS
NOT TO SCALE



0 50 100 200

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PROJECT:
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SINGLE FAMILY RESIDENTIAL SUBDIVISION
CITY OF WAUKESHA, WISCONSIN
BY: R F SMART DEVELOPMENT LLC
144 W. BROADWAY AVENUE
WAUKESHA, WI 53186

REVISION HISTORY

DATE	DESCRIPTION

DATE:
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JOB NUMBER:
12011

DESCRIPTION:
OVERALL
PRELIMINARY
GRADING PLAN

SHEET

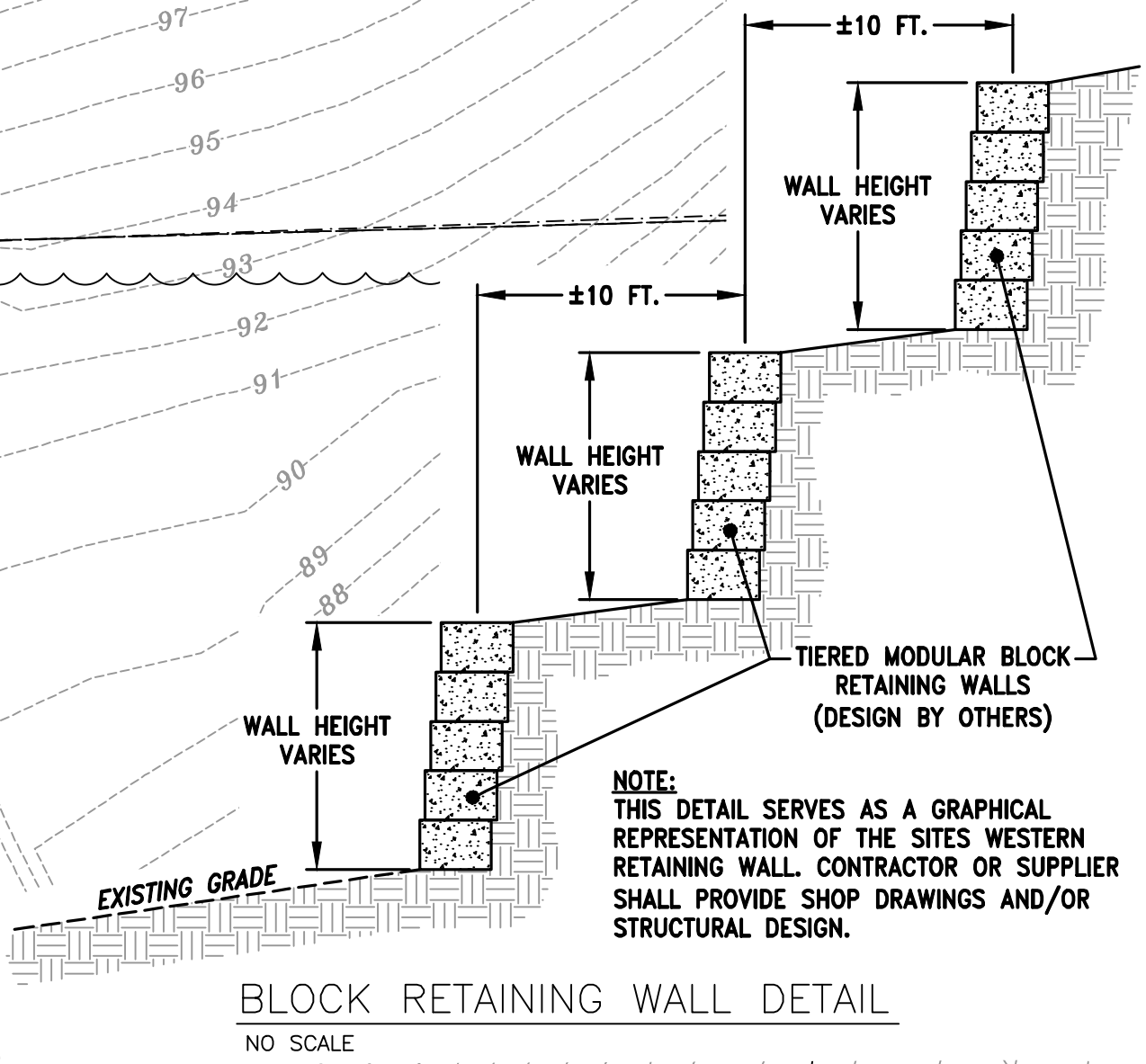
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BLOCK RETAINING WALL DETAIL
NO SCALE

NOTE: THIS DETAIL SERVES AS A GRAPHICAL REPRESENTATION OF THE SITES WESTERN RETAINING WALL. CONTRACTOR OR SUPPLIER SHALL PROVIDE SHOP DRAWINGS AND/OR STRUCTURAL DESIGN.



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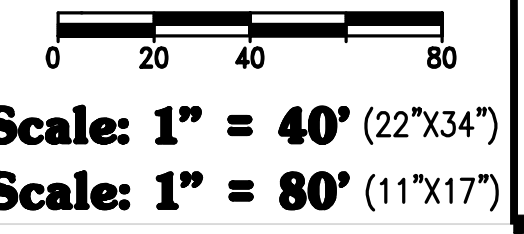
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SHEET

C2.1



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BIG BEND ROAD

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Scale: 1" = 40' (22"x34")
 Scale: 1" = 80' (11"x17")

WET POND
 TOP - 59.0
 OVERFLOW - 57.5
 100-YR - 57.0
 N.W.L. - 53.0
 BOT. - 47.0

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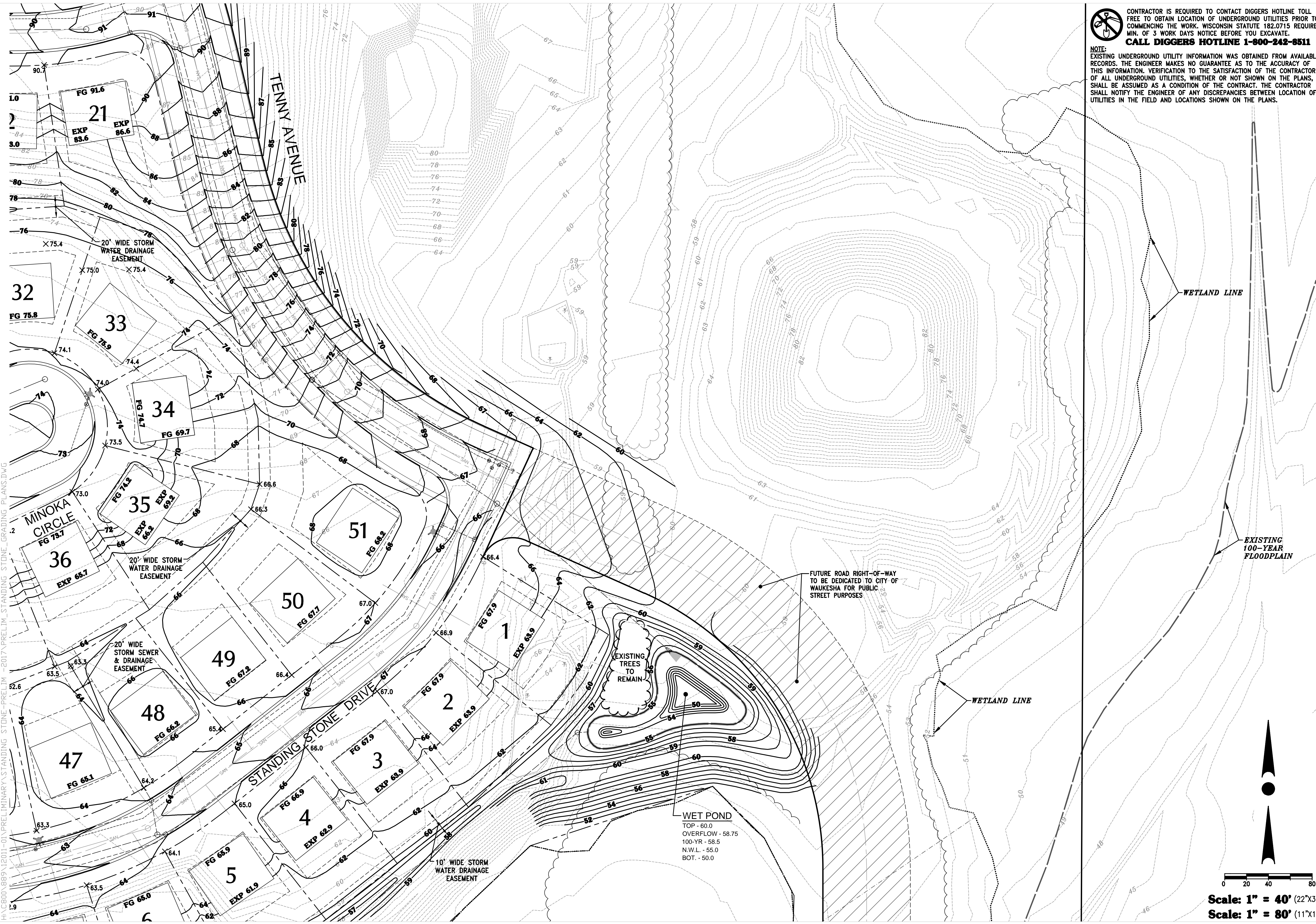
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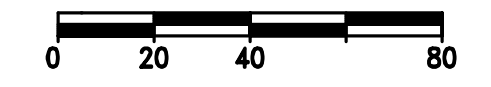
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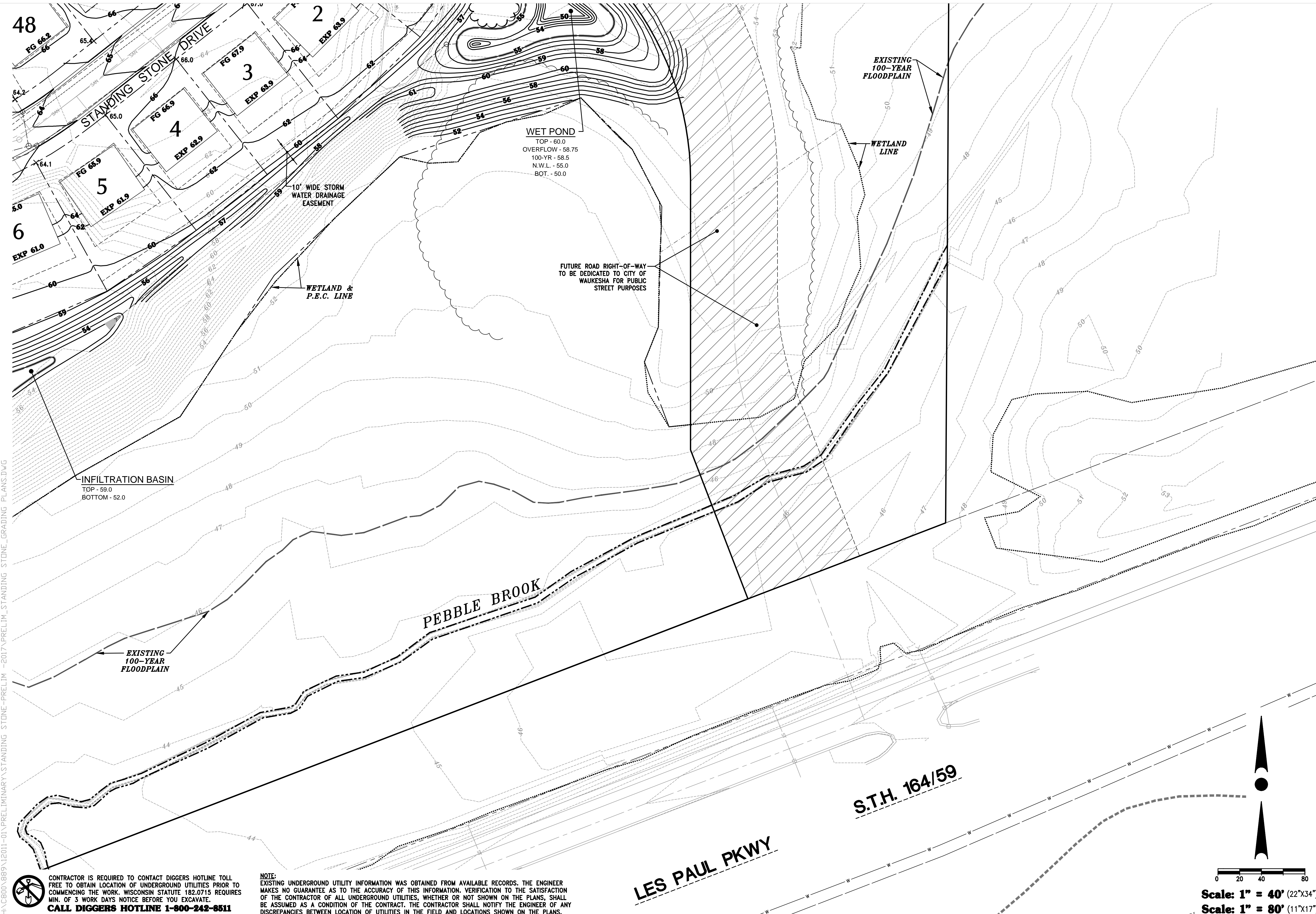
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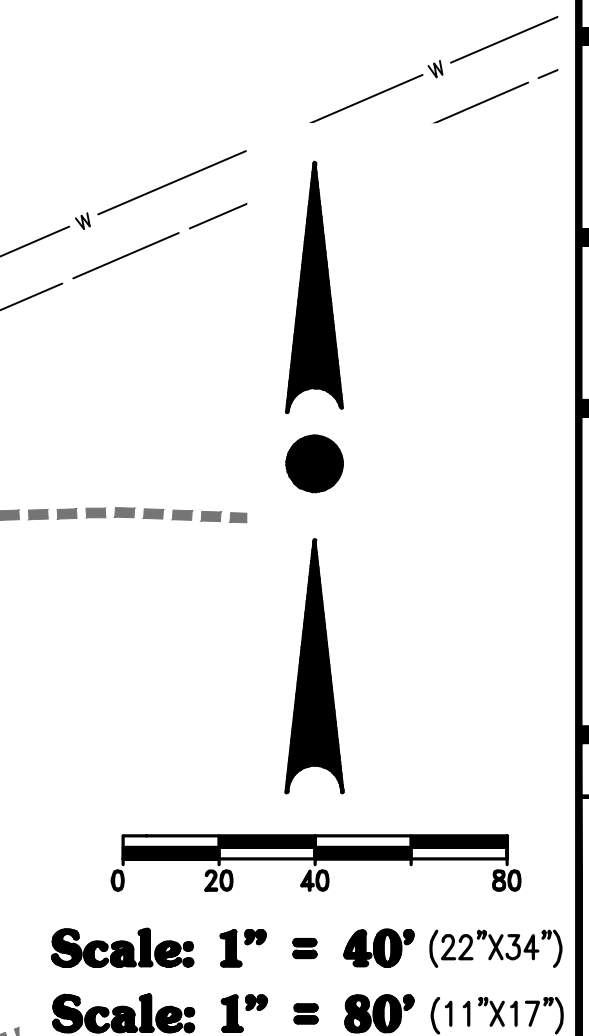
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PROJECT:
STANDING STONE
 SINGLE FAMILY RESIDENTIAL SUBDIVISION
 CITY OF WAUKESHA, WISCONSIN
 BY: R F SMART DEVELOPMENT LLC
 144 W. BROADWAY AVENUE
 WAUKESHA, WI 53186

REVISION HISTORY

DATE	DESCRIPTION

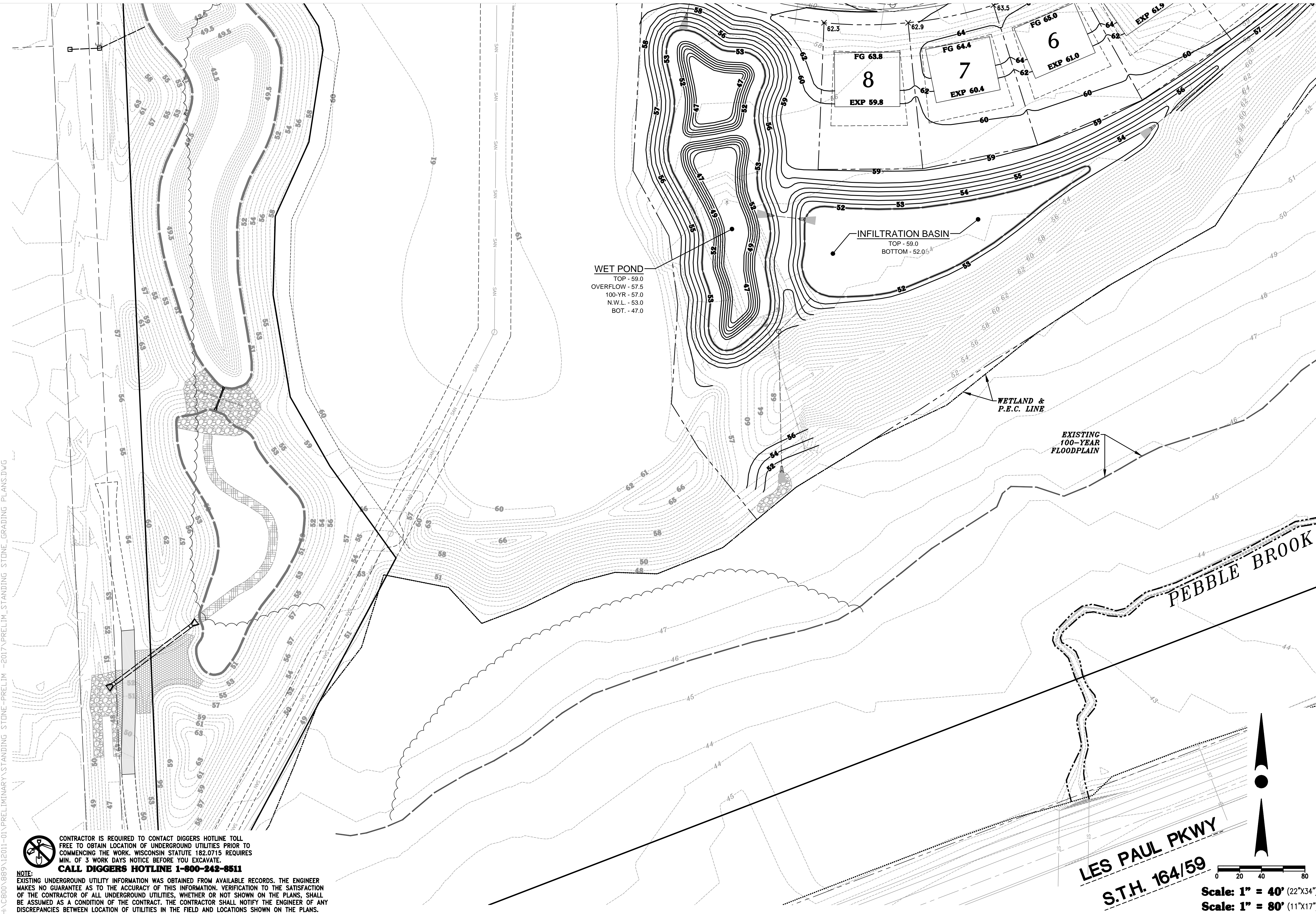
DATE:
 APRIL 13, 2017

JOB NUMBER:
 12011

DESCRIPTION:
 PRELIMINARY
 GRADING PLAN

SHEET

C2.4



WET POND
 TOP - 59.0
 OVERFLOW - 57.5
 100-YR - 57.0
 N.W.L. - 53.0
 BOT. - 47.0

INFILTRATION BASIN
 TOP - 59.0
 BOTTOM - 52.05

WETLAND & P.E.C. LINE

EXISTING 100-YEAR FLOODPLAIN

LES PAUL PKWY
S.T.H. 164/59

Scale: 1" = 40' (22"X34")
 Scale: 1" = 80' (11"X17")



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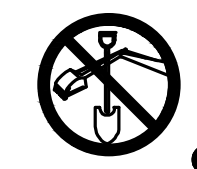
JOB NUMBER:
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DESCRIPTION:
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SHEET

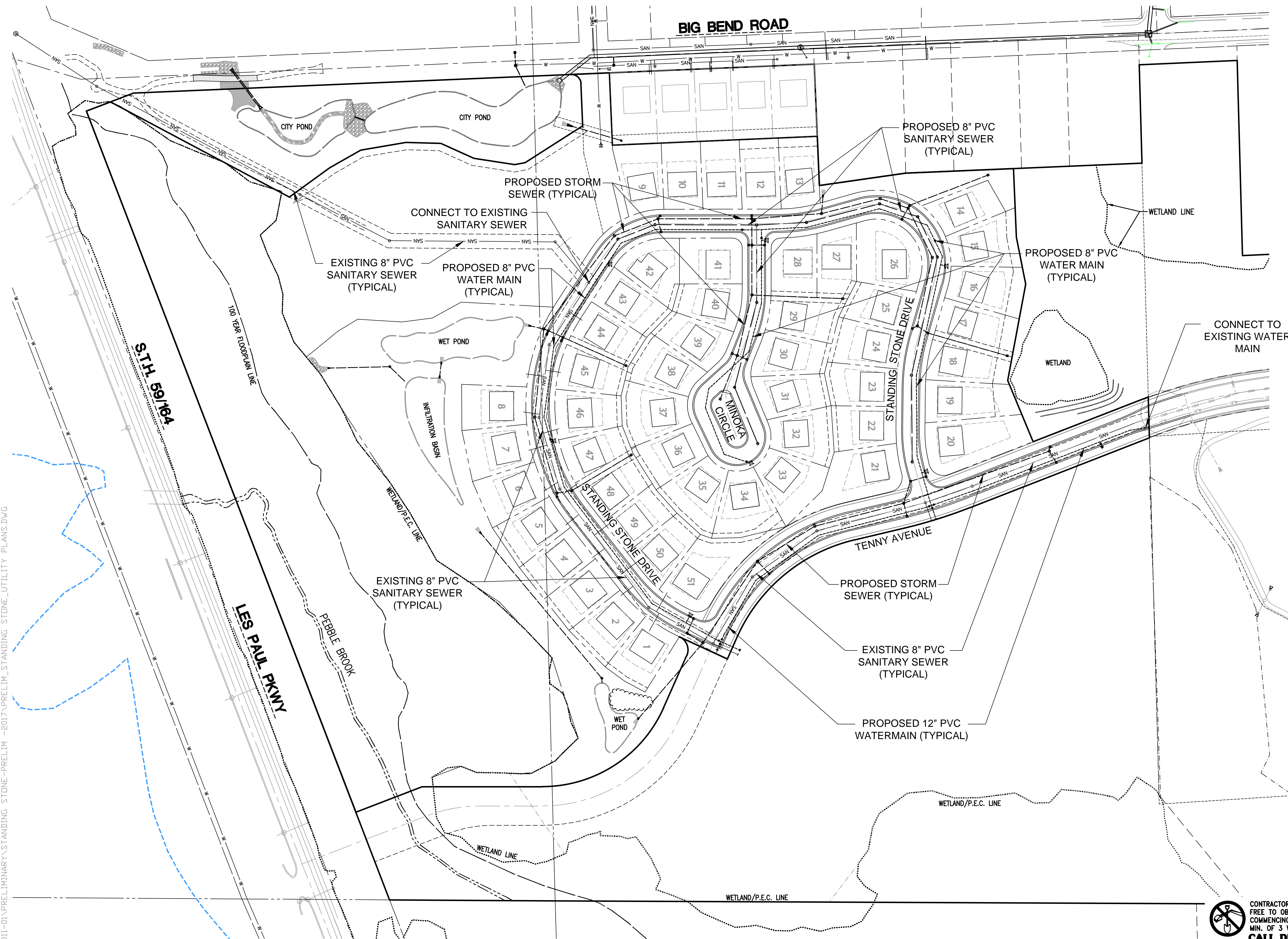
C2.5

HX-C800-889\12011-01\PRELIMINARY\STANDING STONE-PRELIM-2017\PRELIM-STANDING STONE-GRADING PLANS.DWG



CONTRACTOR IS REQUIRED TO CONTACT DIGGERS HOTLINE TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING THE WORK. WISCONSIN STATUTE 182.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.
CALL DIGGERS HOTLINE 1-800-242-8511

NOTE:
 EXISTING UNDERGROUND UTILITY INFORMATION WAS OBTAINED FROM AVAILABLE RECORDS. THE ENGINEER MAKES NO GUARANTEE AS TO THE ACCURACY OF THIS INFORMATION. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN LOCATION OF UTILITIES IN THE FIELD AND LOCATIONS SHOWN ON THE PLANS.



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BROOKFIELD, WI 53005
PHONE: (262) 790-1480
FAX: (262) 790-1481
EMAIL: jpuudelko@trioeng.com

PROJECT:
STANDING STONE
SINGLE FAMILY RESIDENTIAL SUBDIVISION
CITY OF WAUKESHA, WISCONSIN
BY: R F SMART DEVELOPMENT LLC
144 W. BROADWAY AVENUE
WAUKESHA, WI 53186

REVISION HISTORY	
DATE	DESCRIPTION

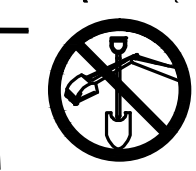
DATE:
APRIL 13, 2017

JOB NUMBER:
12011

DESCRIPTION:
OVERALL
PRELIMINARY
UTILITY PLAN

SHEET

C3.0

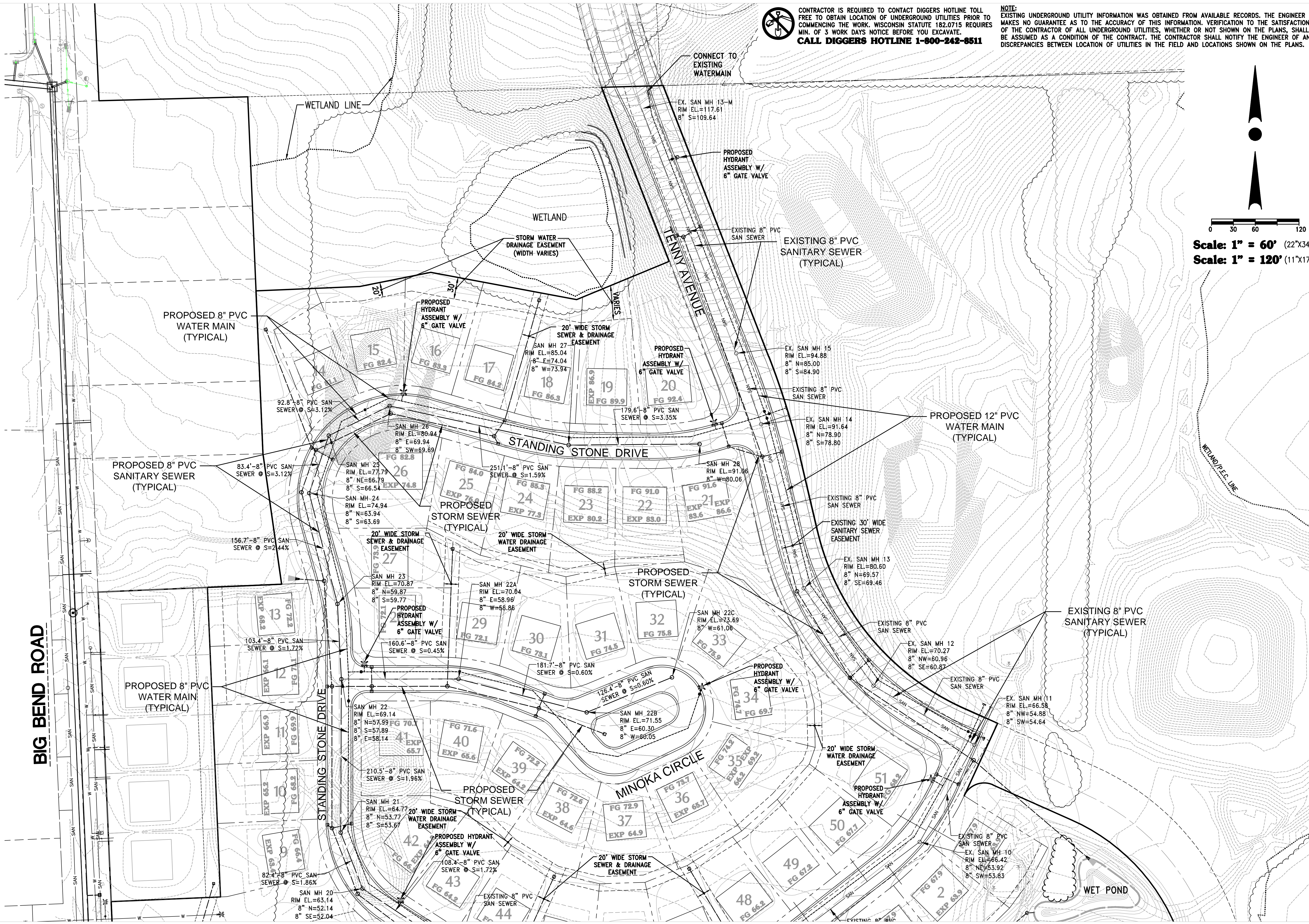


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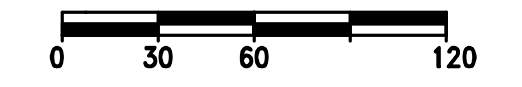
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BIG BEND ROAD



CONTRACTOR IS REQUIRED TO CONTACT DIGGERS HOTLINE TOLL FREE TO OBTAIN LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING THE WORK. WISCONSIN STATUTE 182.0715 REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.
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Scale: 1" = 60' (22"x34")
 Scale: 1" = 120' (11"x17")

WISCONSIN
 JOSHUA D. PUDELKO
 E-39420
 WAUKESHA, WI
PROFESSIONAL ENGINEER

TRIO
 DESIGN • LAND SURVEYING
 CIVIL ENGINEERING

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 BROOKFIELD, WI 53005
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PROJECT:
STANDING STONE
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 BY: R F SMART DEVELOPMENT LLC
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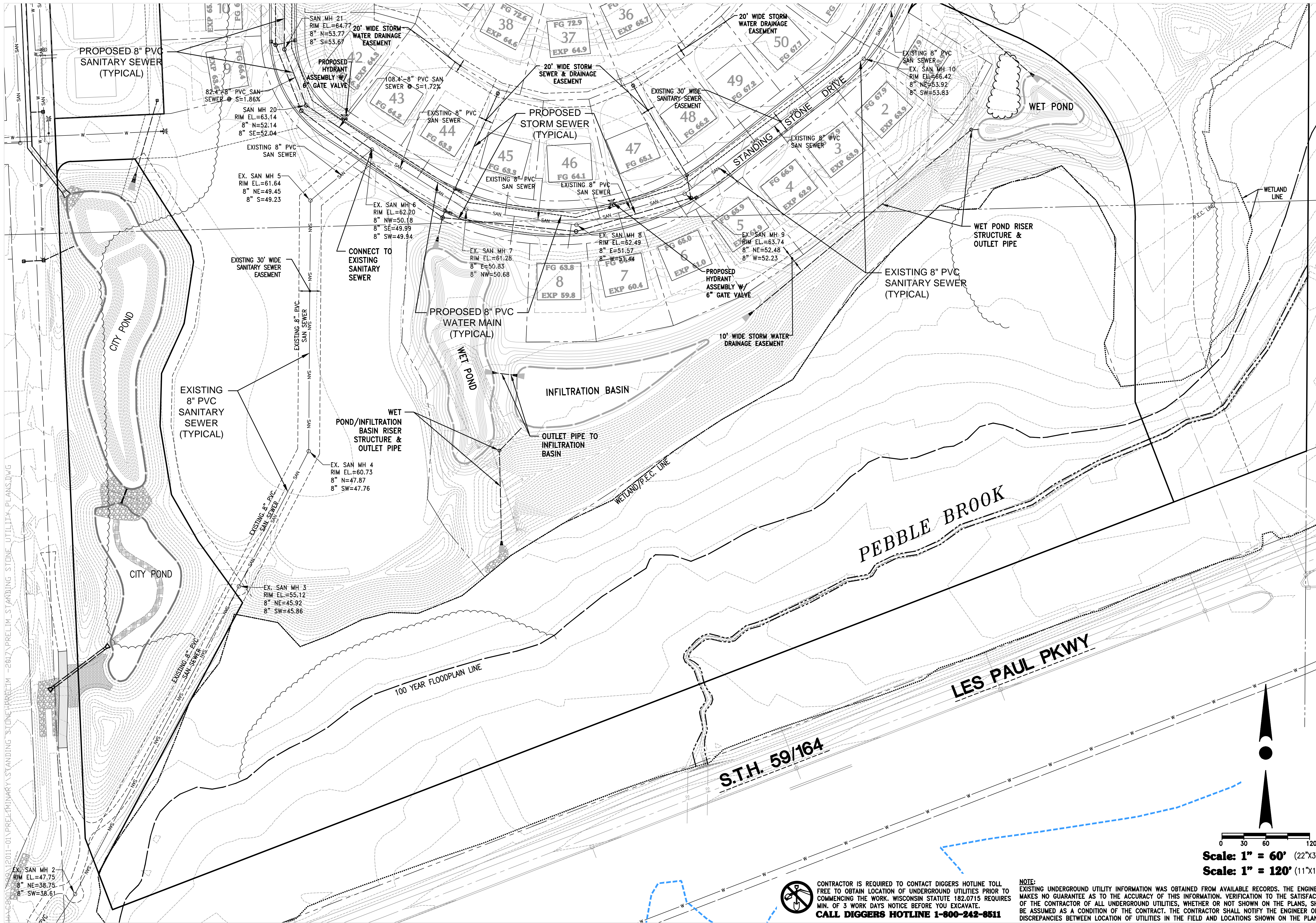
DATE:
 APRIL 13, 2017

JOB NUMBER:
 12011

DESCRIPTION:
 PRELIMINARY
 UTILITY PLAN
 NORTH

SHEET

C3.1



12660 W. NORTH AVE, BLDG D
BROOKFIELD, WI 53005
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FAX: (262) 790-1481
EMAIL: jpuudelko@trioeng.com

PROJECT:
STANDING STONE
SINGLE FAMILY RESIDENTIAL SUBDIVISION
CITY OF WAUKESHA, WISCONSIN
BY: R F SMART DEVELOPMENT LLC
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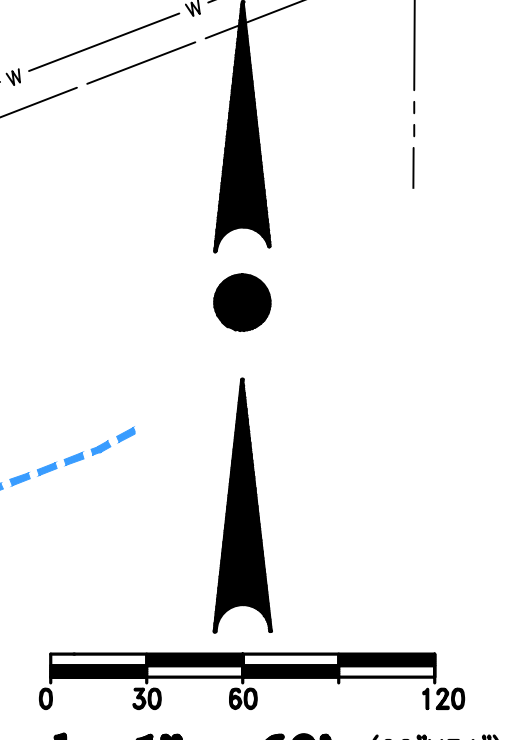
DATE:
APRIL 13, 2017

JOB NUMBER:
12011

DESCRIPTION:
PRELIMINARY
UTILITY PLAN
SOUTH

SHEET

C3.2



Scale: 1" = 60' (22"x34")
Scale: 1" = 120' (11"x17")



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COMPLIANT DOCUMENTATION:

THE LATEST EDITIONS OF THE FOLLOWING DOCUMENTS AND ANY SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS ON THIS PLAN UNLESS OTHERWISE NOTED.

- STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, 6TH EDITION (SSSWCW)
- THE WISCONSIN D.O.T. STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION
- WDRN STORMWATER RUNOFF TECHNICAL STANDARDS.
- WISDOT PAL APPROVED EROSION CONTROL MEASURES LIST, LATEST EDITION.
- CITY OF WAUKESHA DEVELOPMENT STANDARDS, LATEST EDITION.

CONTRACTOR RESPONSIBILITY:

-EXISTING UNDERGROUND UTILITY INFORMATION WAS OBTAINED FROM AVAILABLE RECORDS AND FIELD SURVEY. THE ENGINEER MAKES NO GUARANTEE AS TO THE ACCURACY OF THIS INFORMATION. VERIFICATION TO THE SATISFACTION OF THE CONTRACTOR OF ALL UNDERGROUND UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE ASSUMED AS A CONDITION OF THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN LOCATION OF UTILITIES IN THE FIELD AND LOCATIONS SHOWN ON THE PLANS.

-THE LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS ITEMS.

-THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CONTRACTOR(S) TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THIS WORK. THE CONTRACTOR SHALL ALSO BE SOLELY RESPONSIBLE FOR ALL REQUIRED PERMITS, UNLESS OTHERWISE SPECIFIED.

-THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER AS CONSTRUCTION ACTIVITIES ARE COMPLETED TO PROVIDE CONSTRUCTION OVERSIGHT AND INSPECTION IN ACCORDANCE WITH THE CONSTRUCTION INSPECTION PLAN.

-THE OWNER WILL PROVIDE ALL SURVEYING AND CONSTRUCTION STAKING FOR THIS CONTRACT. THE CONTRACTOR SHALL EXERCISE CARE AND DILIGENCE IN PROTECTING THE SAME. ANY EXPENSE INCURRED FOR ADDITIONAL RESTAKING CAUSED BY CONTRACTOR'S NEGLIGENCE MAY BE CHARGED TO THE CONTRACTOR AND DEDUCTED FROM THE SUMS DUE HIM UNDER THIS CONTRACT.

-ALL TRENCHES SHALL BE BACKFILLED OR SECURELY PLATED DURING NON-WORKING HOURS.

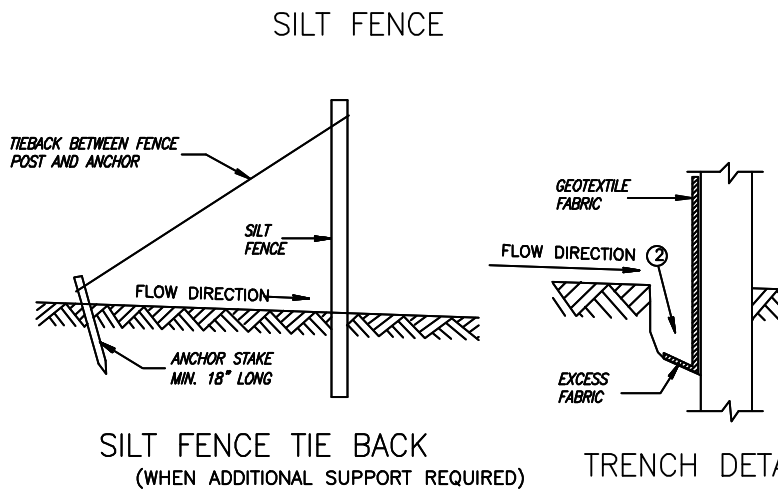
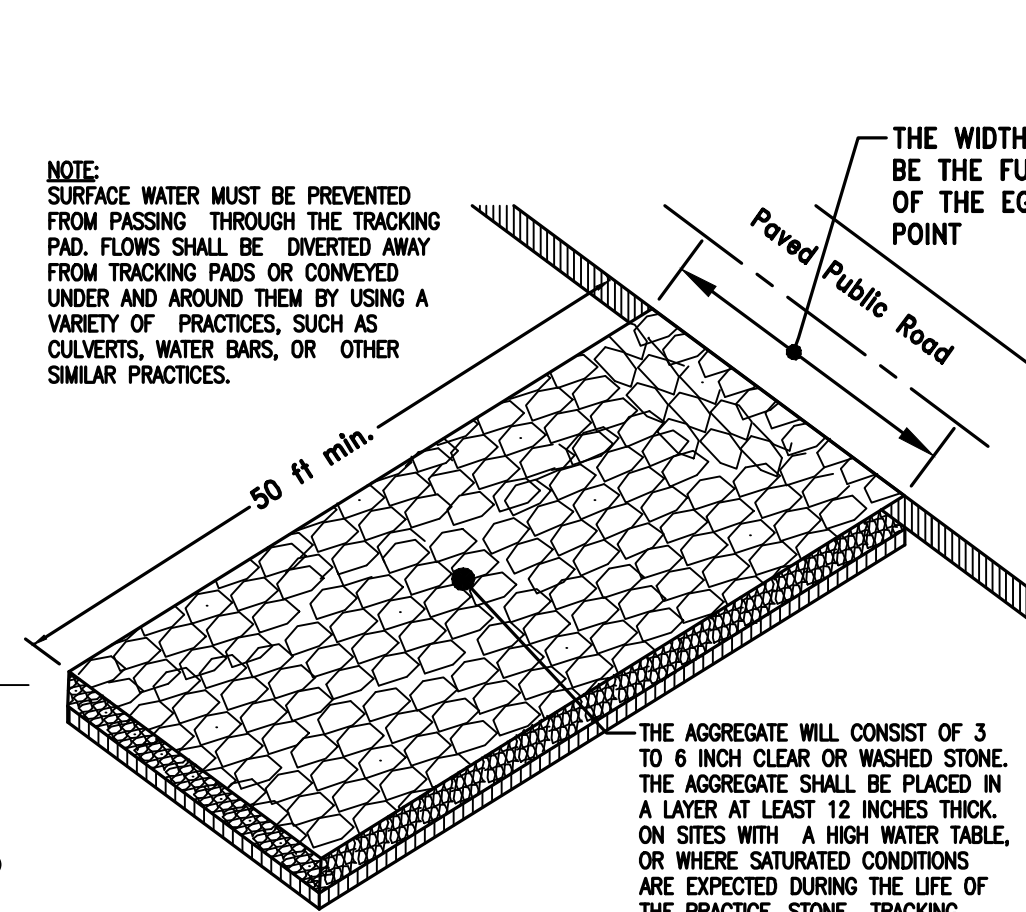
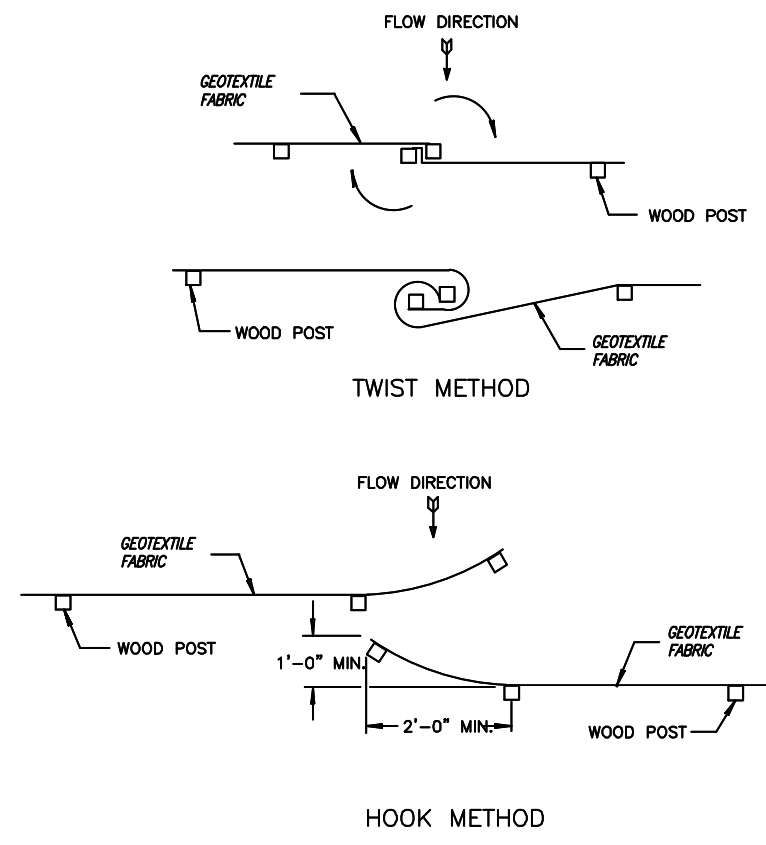
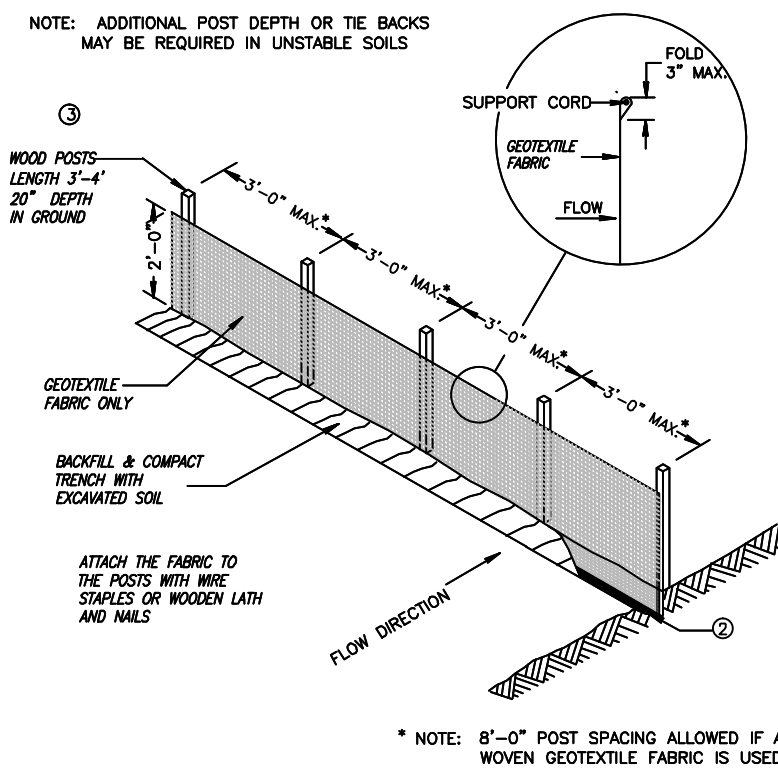
-CONTRACTOR SHALL BE PREPARED FOR DEWATERING CONDITIONS BY HAVING APPROPRIATE PUMPS AND FILTER BAGS ON SITE FOR DEWATERING AND REMOVAL OF ALL SEDIMENT PER VILLAGE, COUNTY AND WDRN REQUIREMENTS PER TECHNICAL STANDARD 1061.

TRAFFIC CONTROL:

-PUBLIC ROADS SHALL NOT BE FULLY CLOSED TO TRAFFIC AT ANY TIME. ALL INGRESS AND EGRESS TRAFFIC TO THE PROJECT SHALL BE LIMITED TO THE GRAVEL ENTRANCE TO THE PROPERTY.

CONSTRUCTION NOTES:

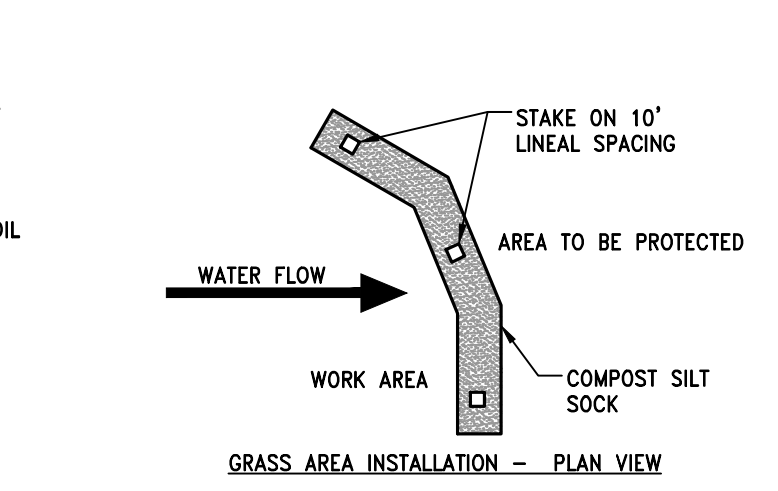
- ALL WORK SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, STATE OF WISCONSIN, LATEST EDITION, UNLESS OTHERWISE CALLED FOR ON THE PLANS, SPECIFICATIONS OR SPECIAL PROVISIONS.
- ALL EROSION CONTROL MEASURES SPECIFIED ON THIS PLAN SHALL MEET THE DESIGN CRITERIA, STANDARDS AND SPECIFICATIONS AS SET FORTH IN THE DEPARTMENT OF NATURAL RESOURCES WISCONSIN BEST MANAGEMENT PRACTICE HANDBOOK AND TECHNICAL STANDARDS.
- ALL EROSION CONTROL DEVICES (I.E., SILT FENCE, SILT SOCK, GRAVEL ENTRANCE, SILTATION BASIN, ETC.), SHALL BE INSTALLED PRIOR TO COMMENCING ANY GRADING OR UTILITY CONSTRUCTION. GRADING ASSOCIATED WITH INSTALLATION OF EROSION OR SEDIMENTARY PRACTICES MAY OCCUR CONCURRENTLY WITH INSTALLATION OF PRACTICES.
- ALL ACTIVITIES ON THE SITE SHALL BE CONDUCTED IN A LOGICAL SEQUENCE TO MINIMIZE THE AREA OF BARE SOIL EXPOSED AT ANY ONE TIME. REFER TO THE CONSTRUCTION SEQUENCING PLAN FOR ADDITIONAL INFORMATION.
- THE OWNER IS RESPONSIBLE FOR OBTAINING A GRADING AND/OR EROSION CONTROL PERMIT (OR ANY OTHER APPLICABLE PERMITS) PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE, ALL TOWN UTILITY DEPARTMENTS, AND GOVERNMENT UNITS WHOSE PROPERTY MAY BE AFFECTED BY THE CONTRACTOR'S OPERATIONS AT LEAST THREE (3) DAYS BEFORE BREAKING GROUND. DIGGERS HOTLINE NUMBER IS 1-800-242-8511.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE CLEANLINESS OF THE PROJECT AND PUBLIC ROADWAYS DURING CONSTRUCTION PER THE REQUIREMENTS SET FORTH BY THE LOCAL AND COUNTY AGENCIES. STREETS SHALL BE KEPT FREE OF SILT OR DIRT TRACKED FROM AREAS UNDER CONSTRUCTION BY SWEEPING OR OTHER APPROPRIATE MEASURES. DUST GENERATED BY CONSTRUCTION ACTIVITIES SHALL BE MINIMIZED BY USE OF WATERING, CALCIUM CHLORIDE SURFACE TREATMENT, CONSTRUCTION SCHEDULING OR OTHER APPROPRIATE METHODS.
- INLETS SHALL BE PROTECTED WITH AN EROSION BARRIER MEETING WDRN TECHNICAL STANDARD 1060 UNTIL THE AREA HAS BEEN STABILIZED. FREQUENT INSPECTION AND TIMELY MAINTENANCE IS REQUIRED.
- UPON COMPLETION OF THE WORK AS SPECIFIED, RESPREAD A MINIMUM OF FOUR (4") INCHES OF SALVAGED TOPSOIL OVER ALL DISTURBED AREAS AND PROVIDE SEED, FERTILIZER AND MULCH PER THE STANDARD SPECIFICATIONS.
- ALL DISTURBED AREAS SHALL BE REVEGETATED WITHIN SEVEN DAYS AFTER BEING DISTURBED USING THE SEED MIX SPECIFIED ON THE PLANS.
- ALL EROSION CONTROL DEVICES SHALL BE ROUTINELY INSPECTED EVERY SEVEN DAYS AND WITHIN 24 HOURS OF A RAINFALL GREATER THAN 0.5 INCHES. CONTRACTOR IS REQUIRED TO PERFORM INSPECTIONS, KEEP A LOG, AND REPAIR BMP'S AS NEEDED.
- REFER TO EROSION CONTROL PLAN FOR SITE EROSION CONTROL ELEMENTS, REQUIREMENTS.



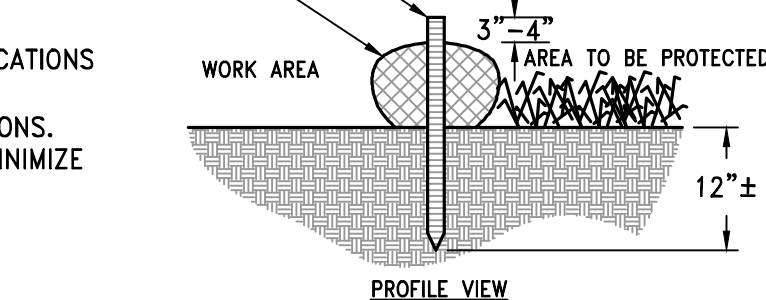
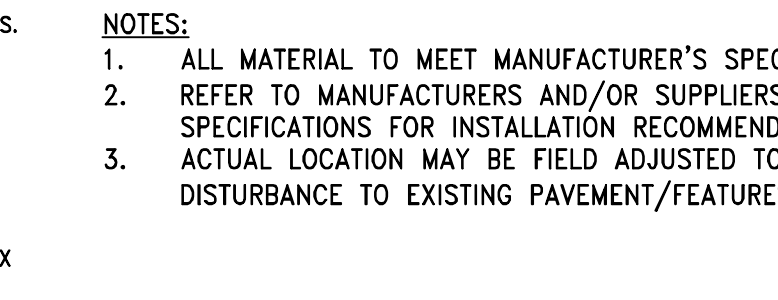
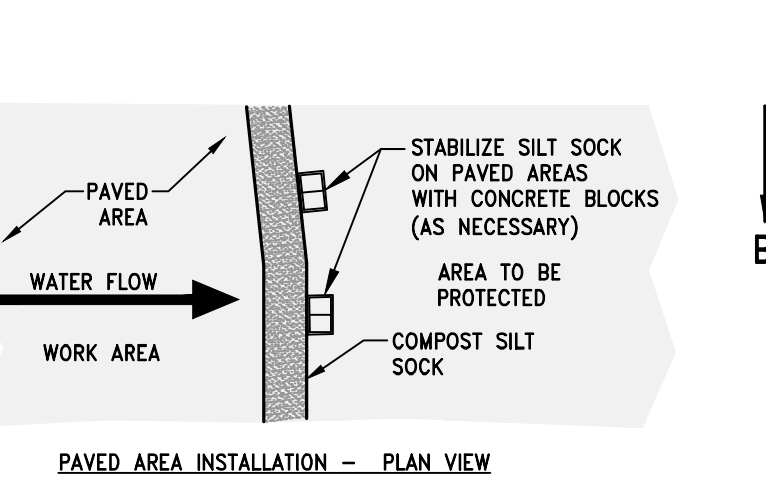
GENERAL NOTES

- HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. TRENCH SHALL BE TYP. TRENCH AND BACKFILL & COMPACT TRENCH WITH EXHAUSTED SOIL.
- WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/2" X 1 1/2" OF OAK OR HICKORY.
- SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS: A) OVERLAP THE END POSTS AND TWIST, OR B) HOOK. AT LEAST 100 GROSS SQ. YD. FROM THE END OF EACH SILT FENCE LENGTH.

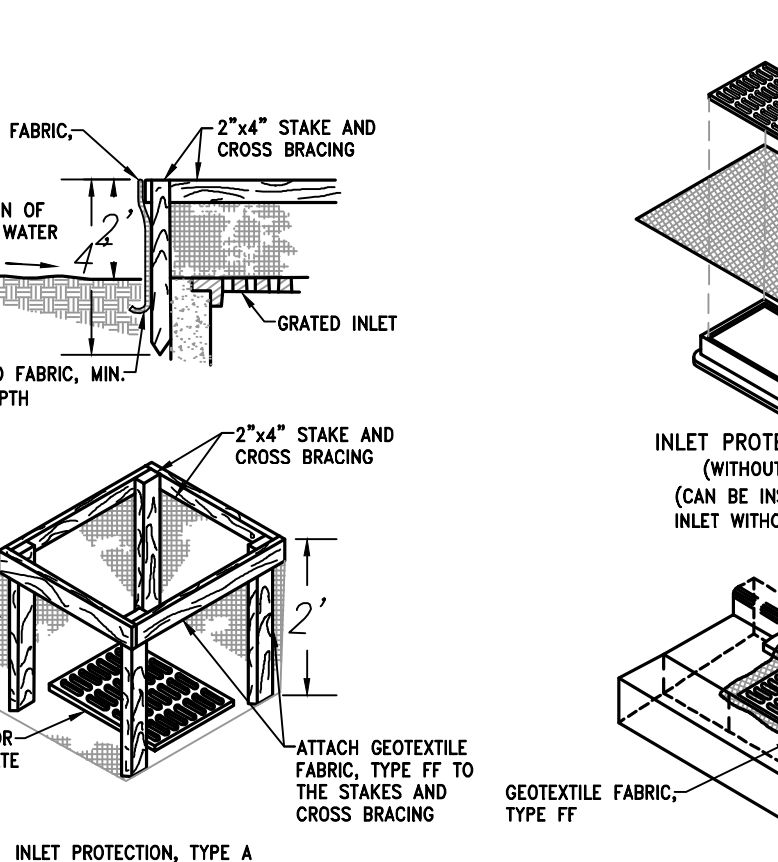
SILT FENCE INSTALLATION DETAIL



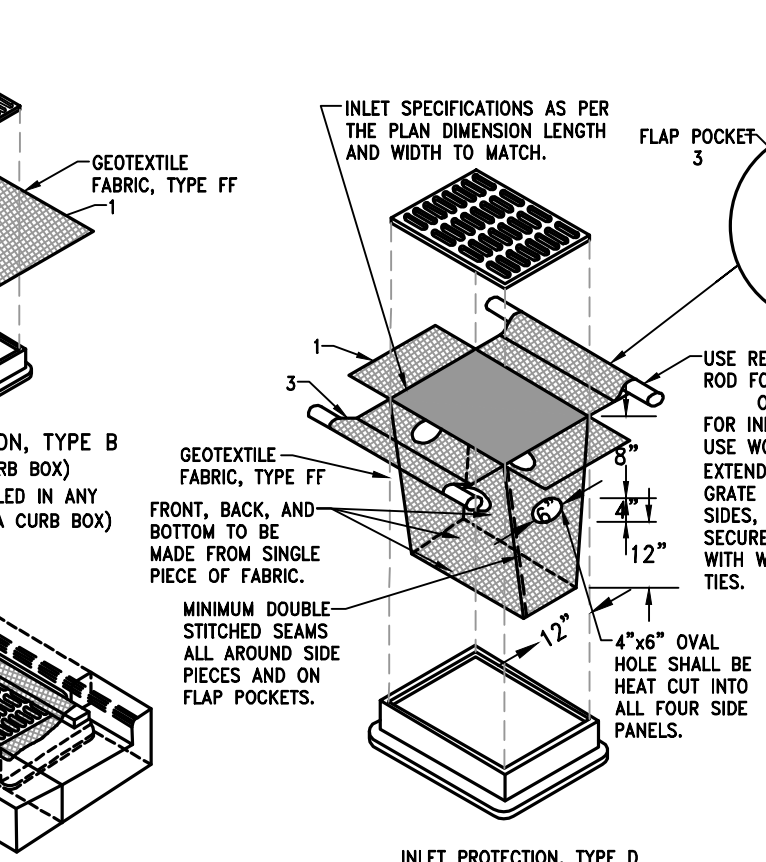
CONSTRUCTION ENTRANCE DETAIL



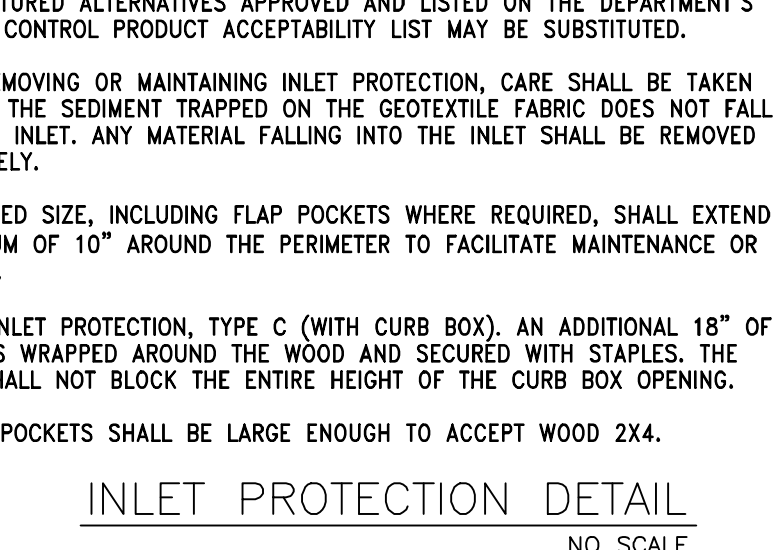
INLET PROTECTION DETAIL



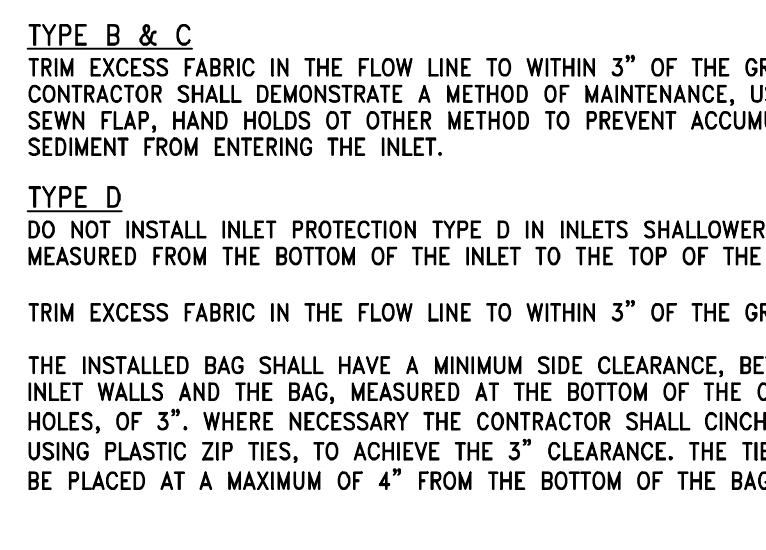
LEVEL SPREADER AT PIPE OUTLET



STORM & SANITARY MH CHIMNEY RING & SEAL



TYPICAL DETAIL OF STANDARD 30" COMBINATION CURB AND GUTTER FOR HOT MIX ASPHALT (HMA) PAVEMENT TYPE "A"



CHIMNEY RINGS

The entire chimney on all sanitary and storm manholes shall consist of adjustment rings manufactured from ARPRO Expanded Polypropylene (EPP). The rings shall be manufactured using a high compression molding process to produce a finished density of 120 g/l (7.5 pcf). Material shall be Pro-Ring as supplied by Cretek Specialty Products.

The chimneys on new manholes are to be built to the proposed grades and shall be minimum height of 4 inches and a maximum height of 8 inches.

INSTALLATION NOTES:

- Installation and surface preparation shall be in accordance with the manufacturer's instructions.
- Repair any surface defects or irregularities of the top of the manhole using a uniform bed of non-shrink grout meeting the requirements noted below.
- The joint between the first grade ring and manhole cone shall be sealed using an adhesive/sealant meeting the requirements noted below.
- The joints between all manhole adjustment rings shall be sealed using an adhesive/sealant noted below.
- The joint between the top manhole adjustment ring and the frame shall not be sealed with adhesive/sealant. On sanitary manholes, this joint will be sealed with an internal frame-chimney seal. The width of the seal shall be the minimum that is necessary to seal the joint between the frame and the Expanded Polypropylene (EPP) rings. Seal shall be manufactured by Cretek Specialty Products.
- All castings shall be centered over the opening of the corbel and adjusting rings. The top adjusting ring upon which the casting is set shall be level from side to side unless a pitch is required to match the surface in paved areas.

Any non-shrink mortar grout shall be Ipatop-Penngrout manufactured by IPA Systems, Inc. (www.ipasystems.com) or Engineer approved equal. The material shall contain a balanced blend of washed and graded silica sand, finely ground Portland cement, and applicable special additive(s). Contractor must supply the Engineer with verification of the product used.

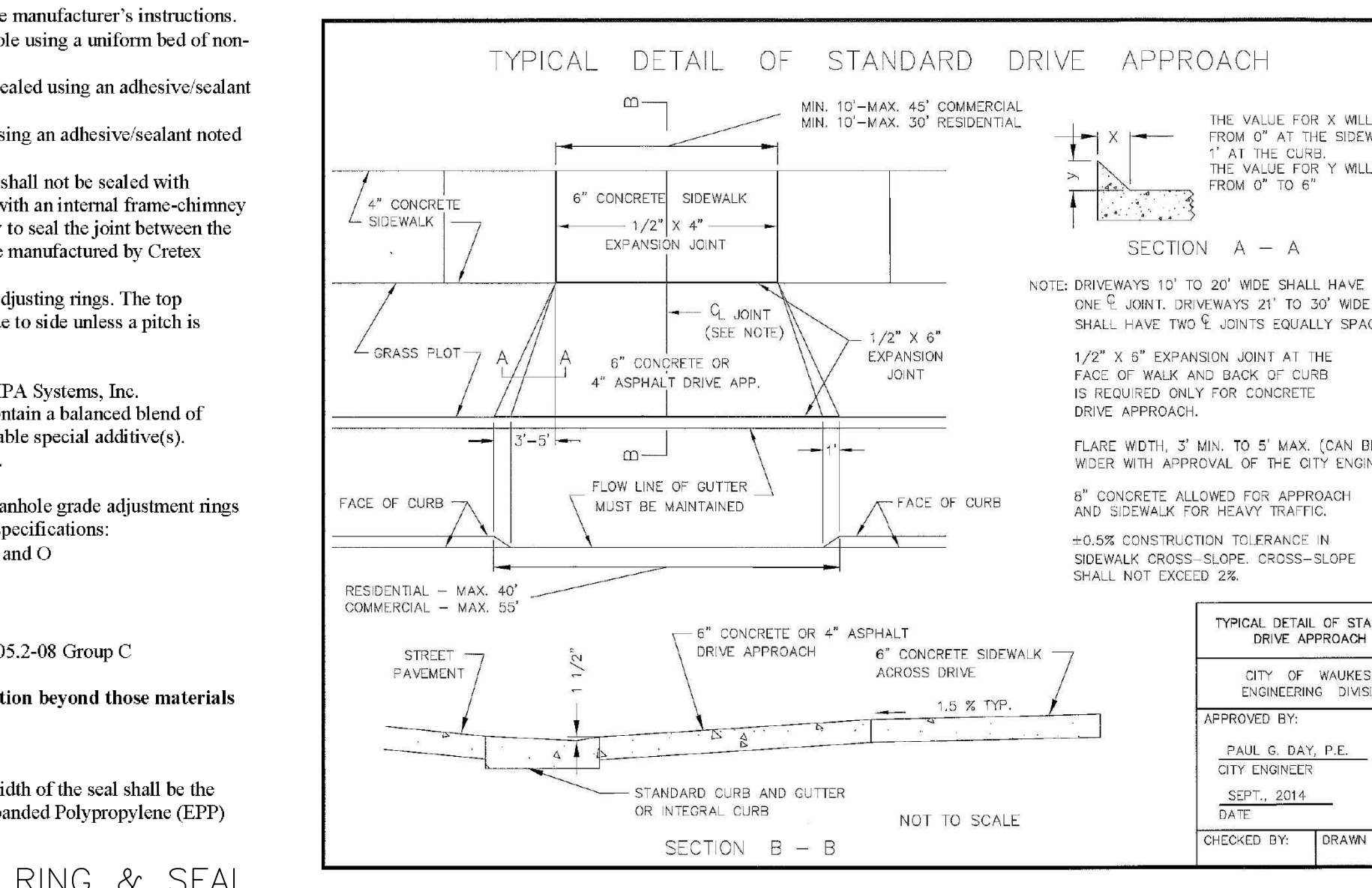
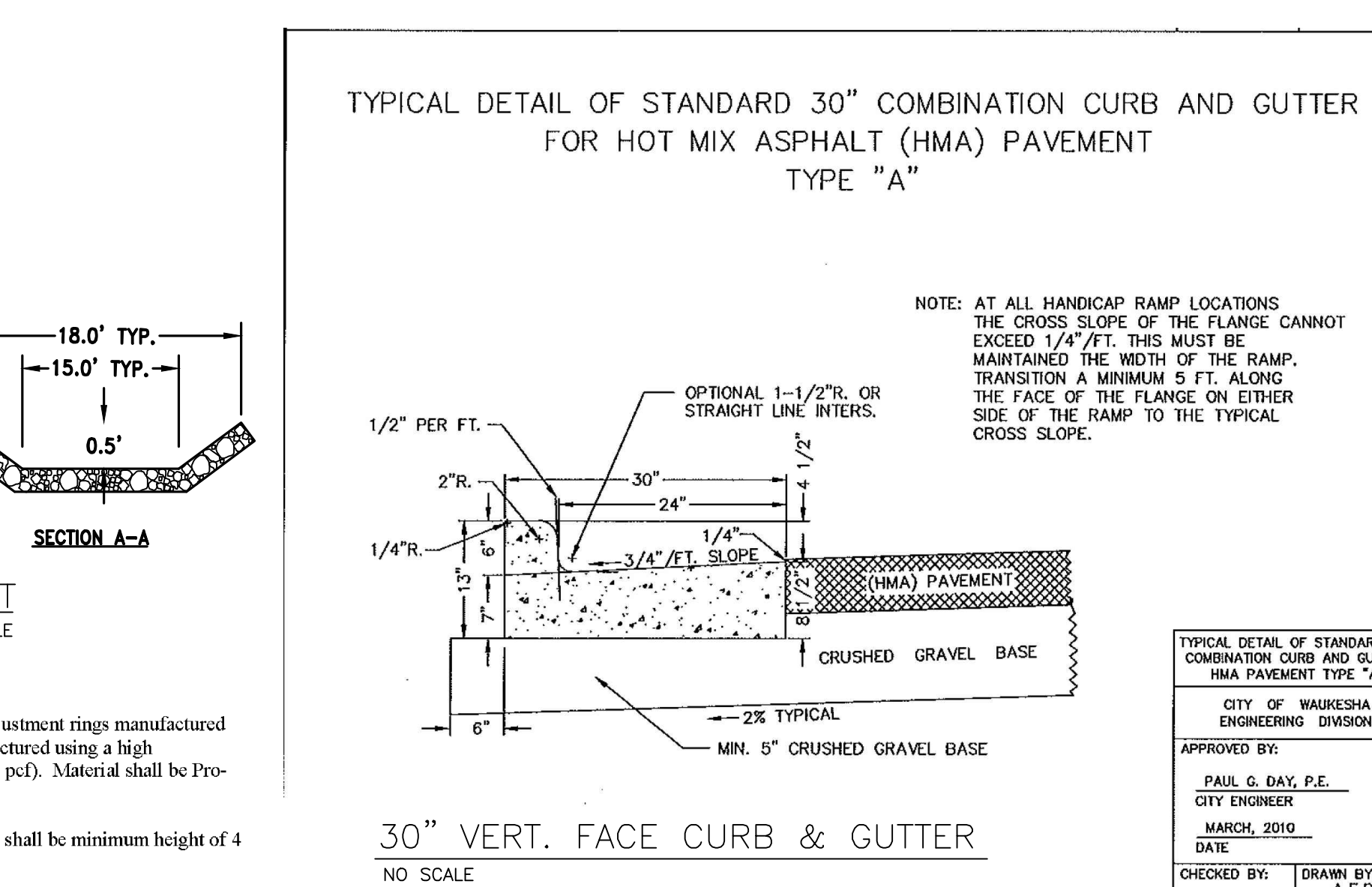
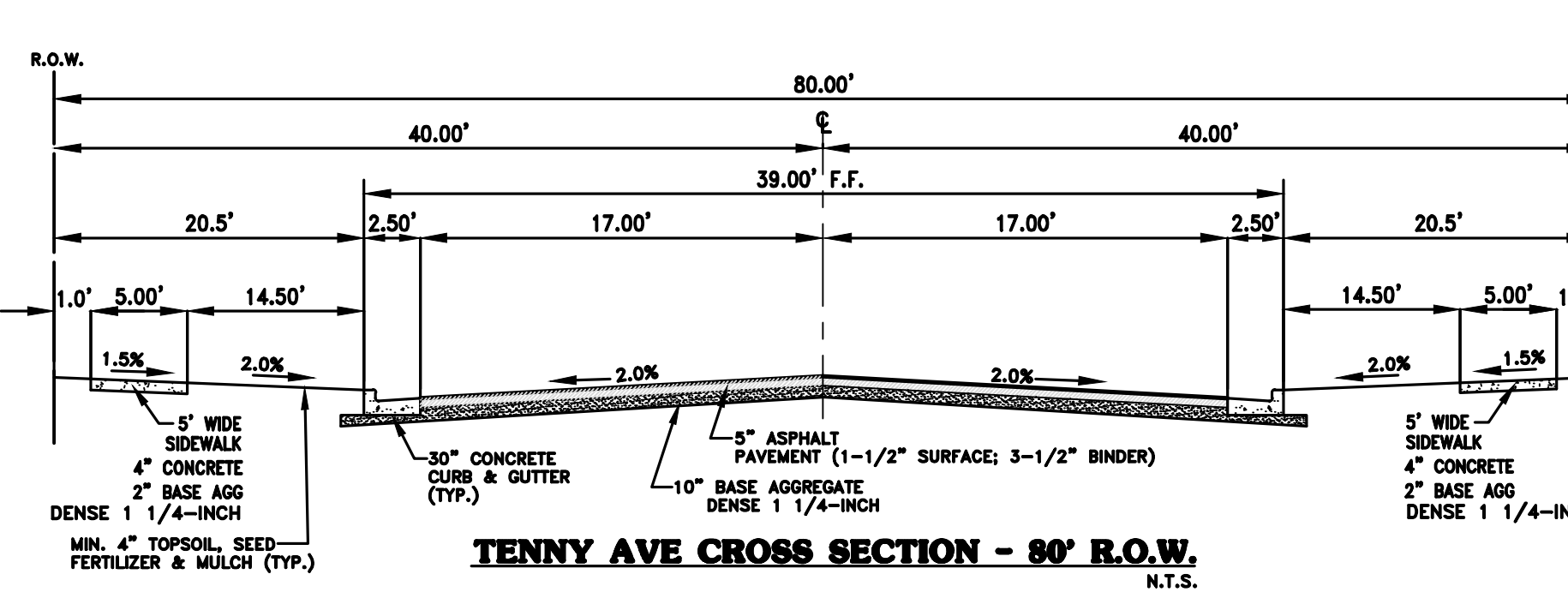
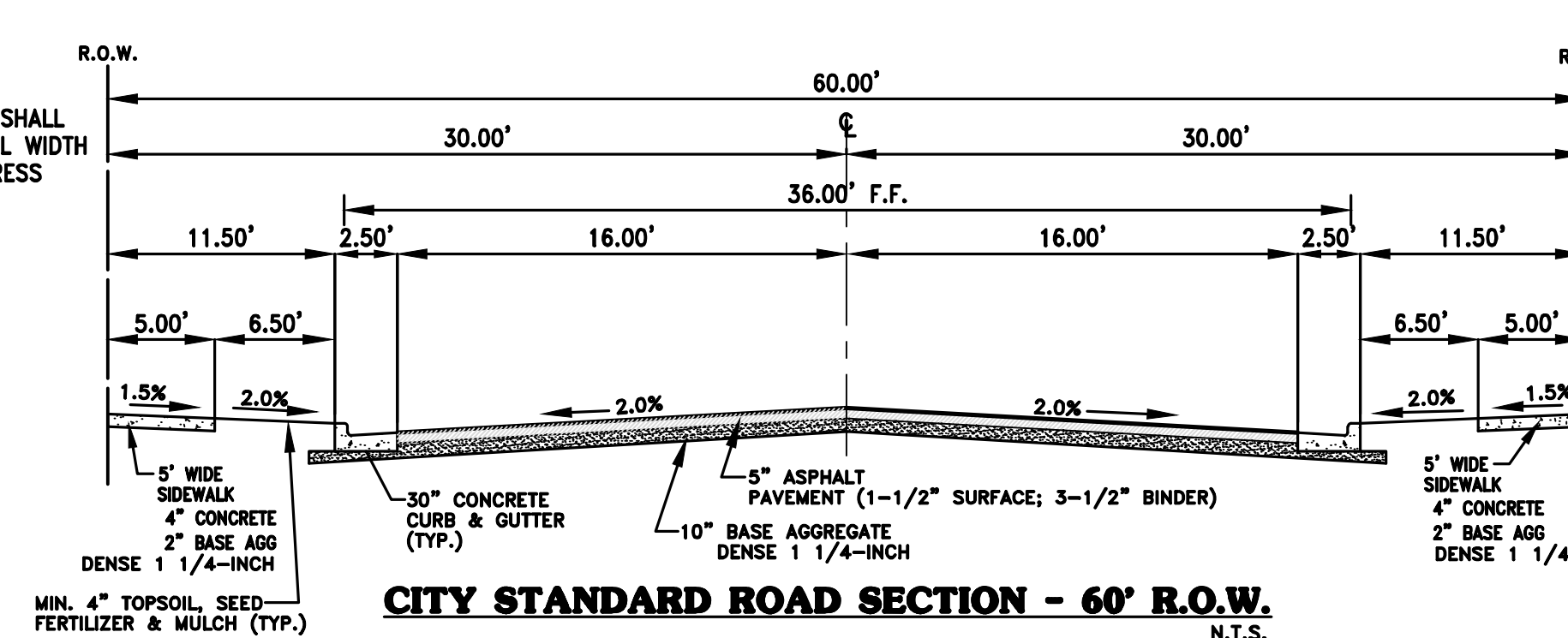
Any adhesive or sealant used for watertight installation of the Pro-Ring manhole grade adjustment rings shall be M-1 Structural Adhesive/Sealant or equal meeting the following specifications:

- ASTM C-920, Type S, Grade NS, Class 25, Uses NT, I, M, G, A and O
- Federal Specification TT-S-00230-C Type II, Class A
- Corps of Engineers CRD-C-541, Type II, Class A
- Canadian Standards Board CAN 19, 13-A82
- AAMA 802.3-08 Type II, AAMA 803.3-08 Type I and AAMA 805.2-08 Group C

No other material shall be used in the construction of the chimney section beyond those materials indicated above. This includes wood shims, bricks, stones, etc.

CHIMNEY SEALS:

The contractor shall install chimney seals in all sanitary manholes. The width of the seal shall be the minimum that is necessary to seal the joint between the frame and the Expanded Polypropylene (EPP) rings. Seal shall be manufactured by Cretek Specialty Products.



WISCONSIN PROFESSIONAL ENGINEER

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PROJECT:

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CITY OF WAUKESHA, WISCONSIN

BY: R F SMART DEVELOPMENT LLC
144 W. BROADWAY AVENUE
WAUKESHA, WI 53186

REVISION HISTORY

DATE	DESCRIPTION

DATE:

APRIL 13, 2017

JOB NUMBER:

12011

DESCRIPTION:

CONSTRUCTION DETAILS

SHEET

C6.0

H:\C800\889\12011-01\PRELIMINARY\STANDING STONE-PRELIM-2017\PRELIM-STANDING STONE-COVER&DETAILS.DWG

