



Fire Marshal Division

P.O. Box 370
Lillington, NC 27546
910-893-7580

Application for Plan Review

Permit Type: Civil Site Plan Review/Gates/Barracades
Across Fire Apparatus Roads

Date Received: _____ Received By: _____

Name of Project: Store-it-Safe Self-Storage

Physical Address of Project: 316 Moulton Spring Rd. Erwin, NC 28339

Plans Submitted By: Stoltzfus Engineering Inc.

Project Phone: (919)- 730 - 4067

Contact Person/Address: Aiken Keppler

721 Ancient Oaks Dr. Holly Springs, NC 27540

Contact Phone: (919)- 730 - 4067 (_____)- _____ - _____

Contractor's Name/Info: To Be Determined

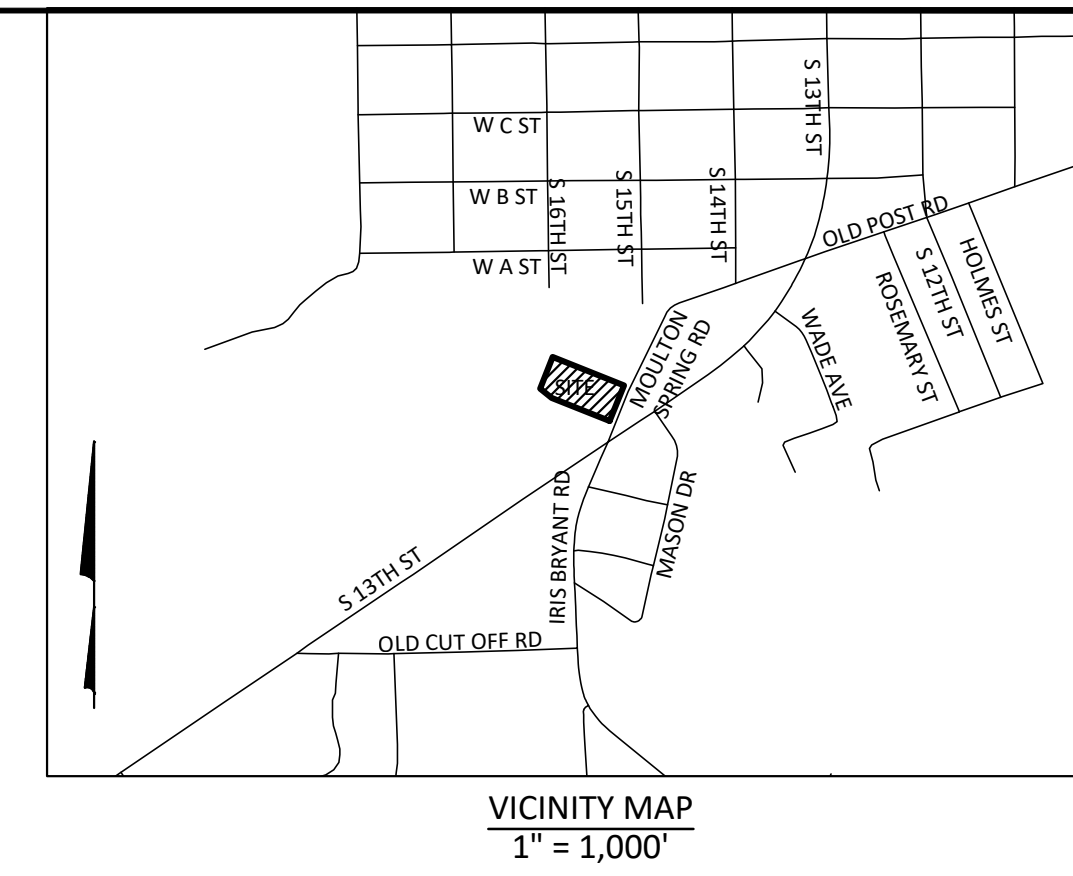
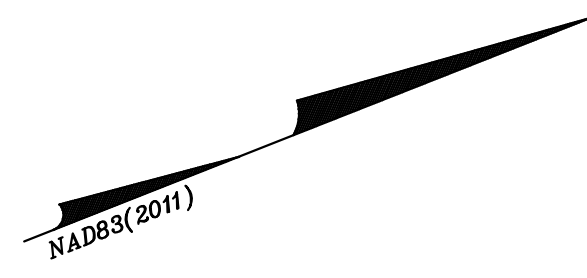
Contractor's Phone: (_____)- _____ - _____

Contact Email: aikenkeppler@gmail.com

- **Plans that are submitted will be reviewed as quickly as possible with an average time of review between 7-10 working days.**
- **Status checks may be conducted on plan reviews by visiting the website <http://hteweb.harnett.org/Click2GovBP/Index.jsp> or by calling the Harnett County Central Permitting Office (910-893-7525 : Opt. 2), or the Harnett County Fire Marshal's Office (910-893-7580).**
- **Approved plans must be picked up from the Central Permitting Office and all fees paid before any required inspections can be conducted.**

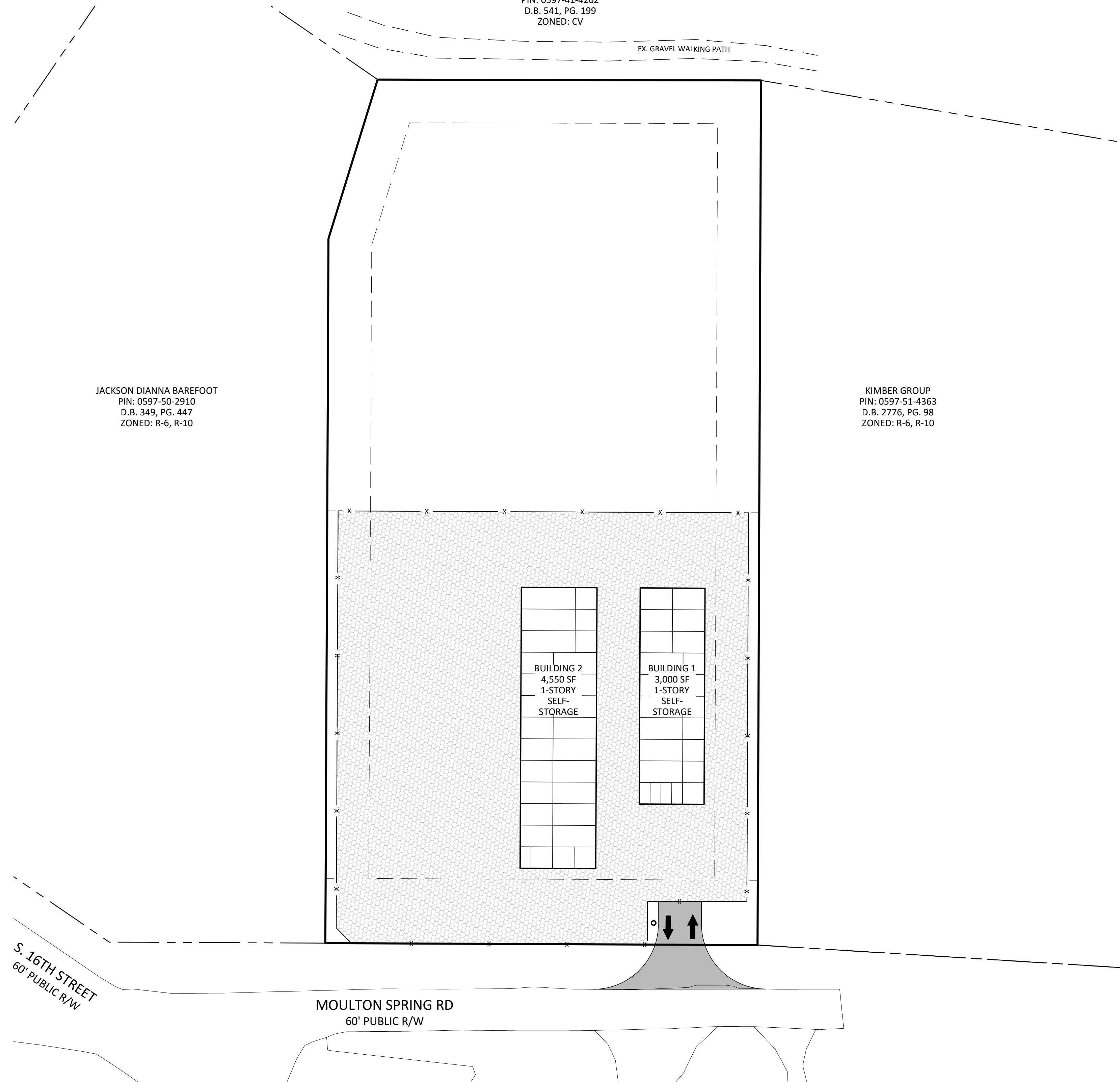
STORE-IT-SAFE SELF-STORAGE

TOWN OF ERWIN HARNETT COUNTY, NORTH CAROLINA



Reviewed for Fire Code Compliance
 Leslie Jackson
 05/14/2024 9:08:58 AM

TOWN OF ERWIN
 PIN: 0597-41-4262
 D.B. 541, PG. 199
 ZONED: CV



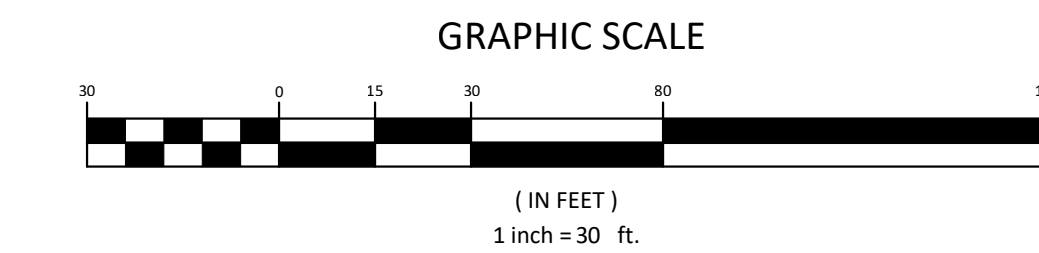
NOTES:
 THIS MAP DOES NOT MEET G.S. 47-30 AND IS NOT FOR RECORDING.
 THIS PROPERTY IS SUBJECT TO ANY EASEMENTS, AGREEMENTS, OR RIGHTS-OF-WAY OF RECORD PRIOR TO THE DATE OF THIS MAP AND WHICH WERE NOT VISIBLE AT THE TIME OF INSPECTION.
 THIS MAP WAS PREPARED WITH OUT THE BENEFIT OF A TITLE REPORT AND DOES NOT NECESSARILY INDICATE ALL ENCUMBRANCES UPON THIS PROPERTY.
 BOUNDARY & TOPOGRAPHIC INFORMATION TAKEN FROM SURVEY FOR AKEN KEPPLER, BY VANDERHOOF SURVEYING, PLLC.
 NO SURVEYING OR SUBSURFACE INVESTIGATIONS PERFORMED BY STOLTZBUS ENGINEERING, INC.
PARCEL DATA:
 TOTAL ACREAGE: 1.816 AC. +/-
 PIN: 0597-51-3059
 DEED REF: DB. 4181 PG. 2640
 PLAT REF: PG. 2023 PG. 387
 EXISTING ZONING: B-2
 EXISTING USE: RESIDENTIAL
 PROPOSED USE: COMMERCIAL, SELF-STORAGE
BUILDING SETBACKS:
 FRONT: 30'
 SIDE: 20' WHERE LOT ABUTS RESIDENTIALLY ZONED LOT
 REAR: 20'
 SIDE STREET: N/A
WATERSHED INFORMATION:
 THIS PROPERTY IS NOT LOCATED IN A WATER SUPPLY WATERSHED PER NCDEQ.
FLOOD INFORMATION:
 THIS PROPERTY IS NOT LOCATED IN A FLOOD RISK ZONE PER NCFRIS.NC.GOV, MAP # 3720059700, PANEL 0597, DATED 10-03-2006.

DRAWING INDEX:

COVER SHEET	C1
EXISTING CONDITIONS AND CLEARING PLAN	C2
SITE, UTILITY & LANDSCAPING PLAN	C3
GRADING, DRAINAGE & EROSION CONTROL PLAN	C4
DETAILS	C5

LEGEND

WATER METER BOX (WM)	FIRE HYDRANT (HYD)
WATER VALVE (WV)	SANITARY SEWER MANHOLE (SSMH)
STORM MANHOLE (STMH)	CLEAN OUT
UTILITY POLE	DEED BOOK
LIGHT POLE	PLAT BOOK
GROUND LIGHT	PAGE
GUY WIRE	R/W RIGHT-OF-WAY
GAS VALVE	E/P EDGE OF PAVEMENT
OVERHEAD POWER LINE	E/GS EDGE OF GRAVEL
GAS LINE	CONC CONCRETE
WATER LINE	RCP REINFORCED CONCRETE PIPE
UNDERGROUND ELECTRICAL	DI DROP INLET
FENCE LINE	CI CURB INLET
WOODSLOPE (TYP.)	FFE FINISH FLOOR ELEVATION
	BSMT BASEMENT
	TYPED TELEPHONE PREDESTAL
	THH TELEPHONE HAND HOLD
	DMUE DRAINAGE MAINTENANCE & UTILITY EASEMENT
	FOUND IRON PIPE
	SET IRON PIN
	COMPLETED POINT
	CONCRETE MONUMENT
	CH = CHORD
	R/W = RIGHT OF WAY
	P.B. = PLAT BOOK
	D.B. = DEED BOOK
	PG. = PAGE
	DE = DRAINAGE ESMT.
	CE = COMMON ELEMENTS



Aden R. Stoltzfus, PE C-3812
 aden@seiengineering.com
 336-904-0207
 683 Gralin Street
 Kernersville, NC 27284

Stoltzfus Engineering Inc.
 Civil Engineering Consultants

STORE-IT-SAFE SELF-STORAGE, ERWIN, NC

COVER PAGE

OWNER & DEVELOPER INFORMATION:
 ARIEN & DIANNA KEPPLER
 721 ANCIENT OAKS DR.
 HOLLY SPRINGS, NC 27540-8350

PROJECT LOCATION:
 STATE: NORTH CAROLINA
 COUNTY: HARNETT
 TOWNSHIP: ERWIN

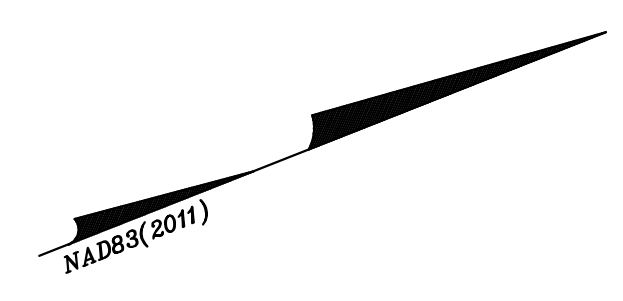
NO.	DATE	REVISION NOTE

DRAWN BY: WVC
 CHECKED BY: ARS
 DATE: 04-23-2024
 PROJECT NO.: 1104-02
 REF. NO.:
 SCALE: 1"=30'

C1
1 OF 5

THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF THE ENGINEER. THESE DRAWINGS ARE PROTECTED UNDER COPYRIGHT LAWS AND MAY NOT BE REPRODUCED IN PART OR IN WHOLE WITHOUT THE SPECIFIC WRITTEN CONSENT OF THE ENGINEER.

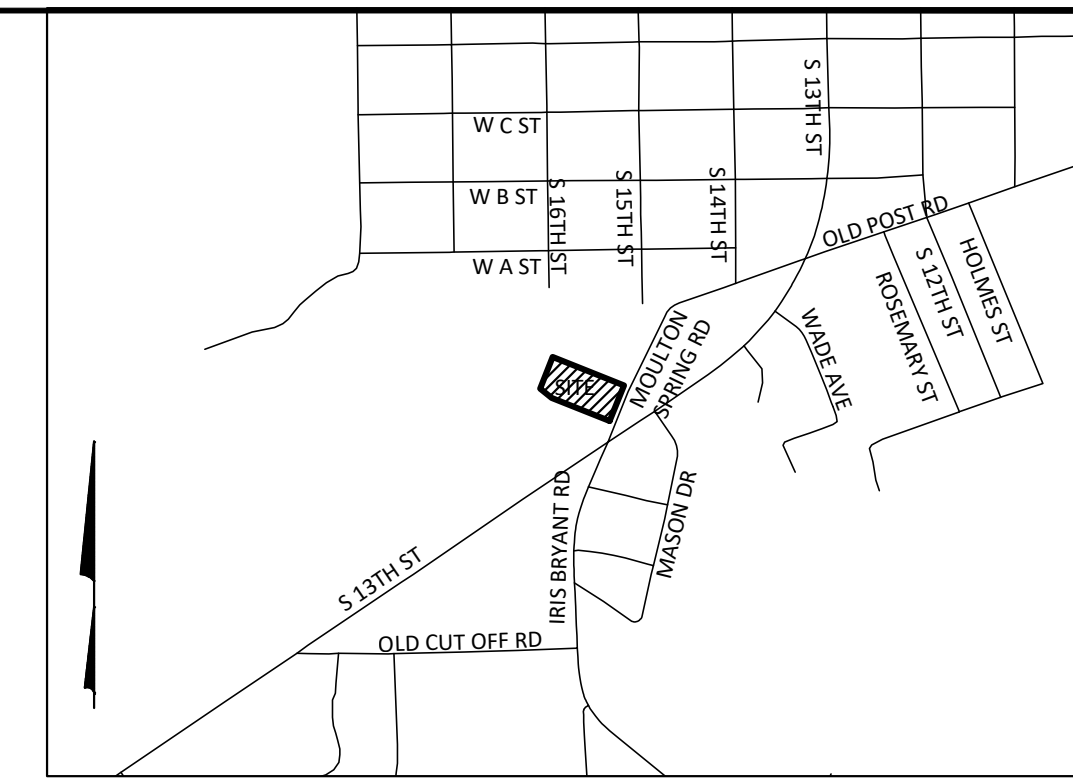
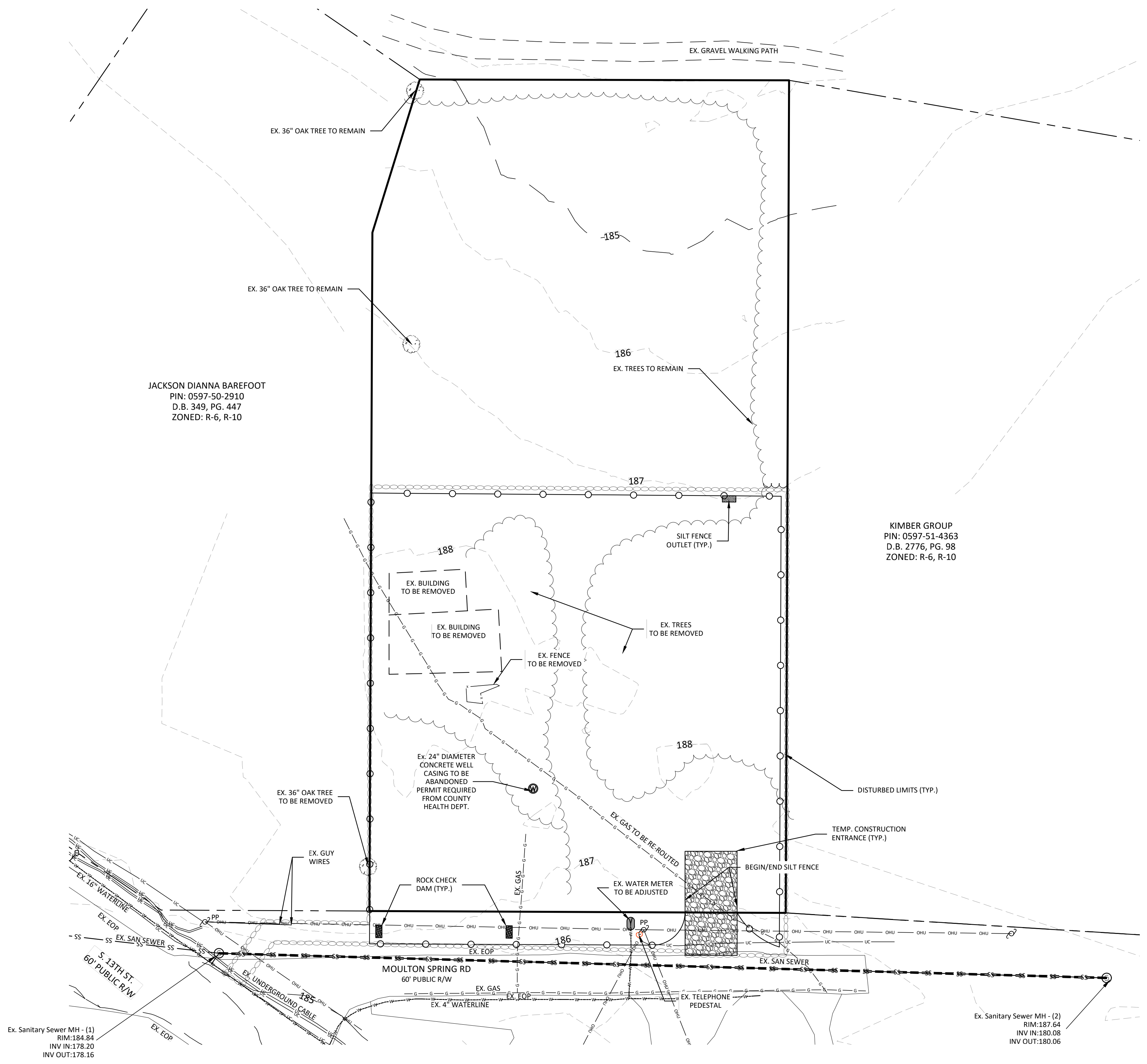




TOWN OF ERWIN
PIN: 0597-41-4262
D.B. 541, PG. 199
ZONED: CV

JACKSON DIANNA BAREFOOT
PIN: 0597-50-2910
D.B. 349, PG. 447
ZONED: R-6, R-10

KIMBER GROUP
PIN: 0597-51-4363
D.B. 2776, PG. 98
ZONED: R-6, R-10



VICINITY MAP
1" = 1,000'

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BUILDING SETBACKS:
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SIDE: 20' WHERE LOT ABUTS RESIDENTIALLY ZONED LOT
REAR: 20'
SIDE STREET: N/A

WATERSHED INFORMATION:
THIS PROPERTY IS NOT LOCATED IN A WATER SUPPLY WATERSHED PER NCDEQ.

FLOOD INFORMATION:
THIS PROPERTY IS NOT LOCATED IN A FLOOD RISK ZONE PER NCFRIS.NC.GOV, MAP # 3720059700, PANEL 0597, DATED 10-03-2006.

SOIL INFORMATION:
LOAMY SAND, 2 TO 6% SLOPES; 44.8%
NORFOLK-URBAN LAND COMPLEX, 0 TO 6% SLOPES; 55.2%

EROSION CONTROL NOTES: (ALSO SEE DETAIL SHEETS)

1. PROPOSED DISTURBED AREA: 0.93 AC.
2. THE EROSION AND SEDIMENTATION CONTROL MEASURES AND DEVICES SHOWN ON THE DRAWINGS ARE INTENDED AS A GUIDE. AS GRADING PROGRESSES, MEASURES MAY BE ADDED OR DELETED BY THE EROSION CONTROL OFFICER AS DEEMED NECESSARY TO CONTROL EROSION AND SEDIMENTATION. IF GRADING CONTRACTOR FEELS THAT ADDITIONAL MEASURES ARE NEEDED OTHER THAN THOSE INDICATED, GRADING CONTRACTOR SHOULD CONTACT THE OWNER AND ENGINEER IMMEDIATELY FOR APPROVAL OF THE CHANGES.
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5. ROUGHEN SLOPE SURFACES TO MINIMIZE EROSION DURING VEGETATION ESTABLISHMENT.
6. STRUCTURAL FILL COMPACTION NOTE: AREAS OUTSIDE OF PUBLIC RIGHT OF WAY (REFER TO NCDOT OR TOWN OF ERWIN STANDARDS FOR AREA WITHIN PUBLIC RIGHT OF WAY) THE CONTRACTOR SHALL REMOVE AND OR UNDERLIT UNSUITABLE SOILS AT THE DIRECTION OF A CERTIFIED TESTING FIRM PAID BY THE OWNER FOR ALL STRUCTURAL FILL/TRENCH AREAS. ALL STRUCTURAL FILL AND UNDERGROUND TRENCH AREAS SHALL BE FILLED IN LAYERS SIX INCHES (6") DEEP AND THOROUGHLY COMPACTED WITH MECHANICAL COMPACTORS TO ATTAIN 95% STANDARD PROCTER. COMPACTION TESTING OF THE BACKFILL SHALL BE PROVIDED BY A CERTIFIED TESTING FIRM AND PAID FOR BY THE OWNER FOR EACH FILL LOT AND OR TRENCH AREA.

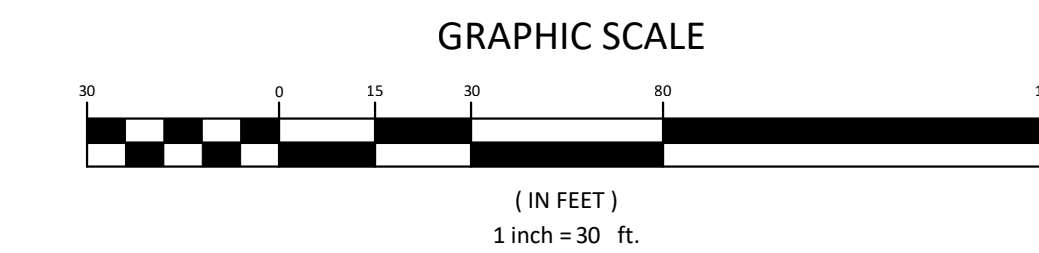
CONSTRUCTION SEQUENCE:
INSTALL CONSTRUCTION ENTRANCE AND PERIMETER SILT FENCE. INGRESS AND EGRESS TO THE DISTURBED SITE WILL ONLY BE OVER APPROVED CONSTRUCTION ENTRANCE.

CLEAR AND GRUB EXISTING TREES NEAR PROPERTY LINE.

GRADE SITE IN MANNER WHERE RUNOFF IS CONTINUALLY DIRECTED INTO SILT FENCE OUTLETS.

LEGEND

- | | |
|--------------------------|------------------------------------------------|
| ○ WATER METER BOX (WM) | ○ FIRE HYDRANT (HYD) |
| ○ WATER VALVE (WV) | ○ SANITARY SEWER MANHOLE (SSMH) |
| ○ STORM MANHOLE (STMH) | ○ CLEAN OUT |
| ○ UTILITY POLE | ○ DEED BOOK |
| ○ LIGHT POLE | ○ PLAT BOOK |
| ○ GROUND LIGHT | ○ RIGHT-OF-WAY |
| ○ GUY WIRE | ○ E/P EDGE OF PAVEMENT |
| ○ YARD INLET (YI) | ○ E/G EDGE OF GRAVEL |
| ○ GAS VALVE | ○ CONC CONCRETE |
| ○ OVERHEAD POWER LINE | ○ RCP REINFORCED CONCRETE PIPE |
| ○ WATER LINE | ○ DI DROP INLET |
| ○ UNDERGROUND ELECTRICAL | ○ CI CURB INLET |
| ○ FENCE LINE | ○ FIE FINISH FLOOR ELEVATION |
| ○ WOODSLINE (TYP.) | ○ BSMT BASEMENT |
| | ○ TPED TELEPHONE PEDESTAL |
| | ○ THH TELEPHONE HAND HOLD |
| | ○ DMUE DRAINAGE MAINTENANCE & UTILITY EASEMENT |
| | ○ PROP. DISTURBED LIMITS |
| | ○ TEMP. DIVERSION BEAM |



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683 Gralin Street
Kernersville, NC 27284

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Civil Engineering Consultants

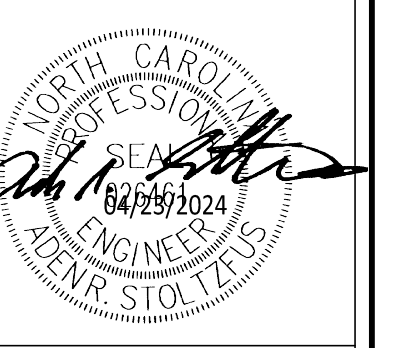
STORE-IT-SAFE SELF-STORAGE, ERWIN, NC
EXISTING CONDITIONS & CLEARING PLAN

OWNER & DEVELOPER INFORMATION:
AKEN KEPPLER
721 ANCIENT OAKS DR.
HOLLY SPRINGS, NC 27540-8350

PROJECT LOCATION:
STATE: NORTH CAROLINA
COUNTY: HARNETT
TOWNSHIP: ERWIN

NO.	DATE	REVISION NOTE

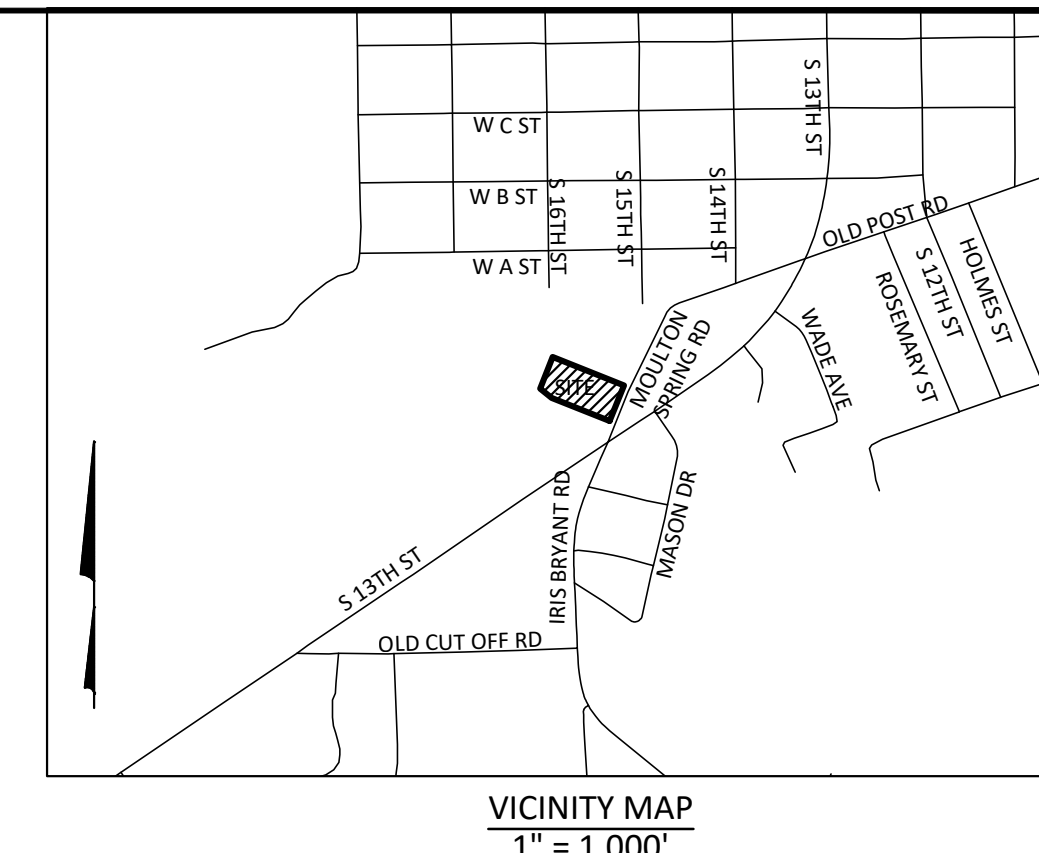
DRAWN BY: WVC
CHECKED BY: ARS
DATE: 04-23-2024
PROJECT NO.: 1104-02
REF. NO.:
SCALE: 1"=30'



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SEI
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 Civil Engineering Consultants



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 NO SURVEYING OR SUBSURFACE INVESTIGATIONS PERFORMED BY STOLTZUS ENGINEERING, INC.

KEY PAD NOTE:
 KNOX BOX WILL BE PROVIDED TO ALLOW FOR EMERGENCY SERVICE OPERATION OF THE GATE. OWNER TO COORDINATE WITH HARNETT COUNTY FIRE ON GATE OPERATION.

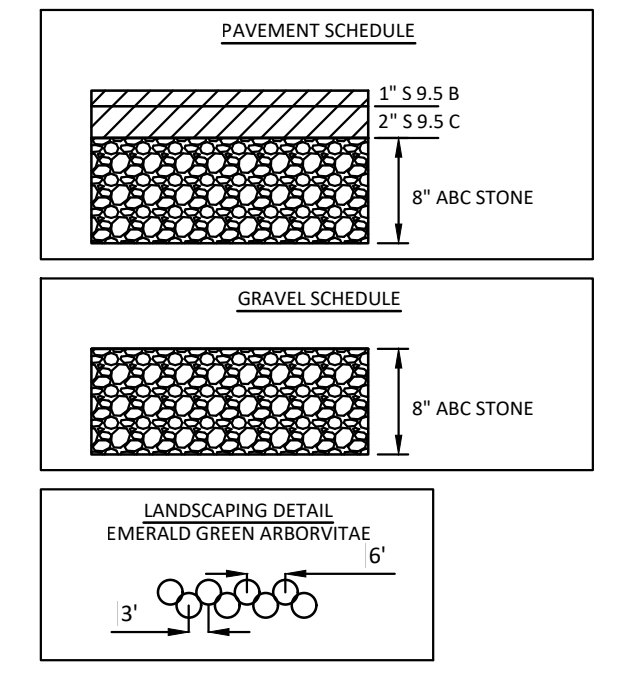
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 PIN: 0597-51-3059
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 PLAT REF: PB 2023 PG. 387
 EXISTING ZONING: S-2
 EXISTING USE: RESIDENTIAL
 PROPOSED USE: COMMERCIAL, SELF-STORAGE

BUILDING SETBACKS:
 FRONT: 30'
 SIDE: 20' WHERE LOT ABUTS RESIDENTIALLY ZONED LOT
 REAR: 20'
 SIDE STREET: N/A

WATERSHED INFORMATION:
 THIS PROPERTY IS NOT LOCATED IN A WATER SUPPLY WATERSHED PER NCDEQ.

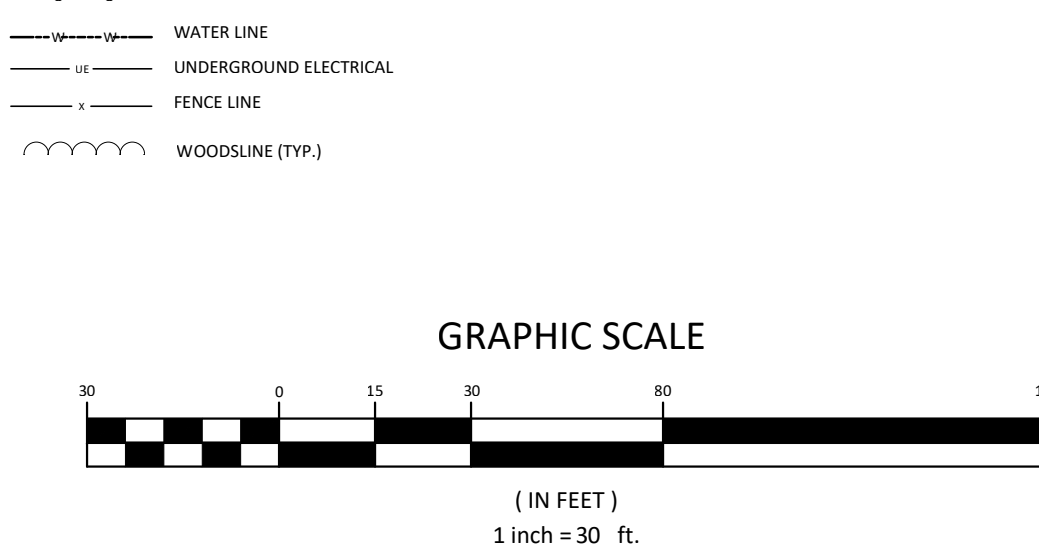
FLOOD INFORMATION:
 THIS PROPERTY IS NOT LOCATED IN A FLOOD RISK ZONE PER NCFRIS.NC.GOV, MAP # 3720059700, PANEL 0597, DATED 10-03-2006.

BLU:
 EX. BUILDINGS: 6,137 S.F. (7.76%)
 EX. GRAVEL: 1,601 S.F. (2.02%)
 EX. CONC.: 73 S.F. (0.09%)
 TOTAL EX. IMPERVIOUS: 7,811 S.F. (9.87%)
 PROP. BUILDINGS: 7,550 S.F. (9.54%)
 PROP. GRAVEL: 29,501 S.F. (37.28%)
 PROP. ASPHALT: 410 S.F. (0.52%)
 TOTAL PROP. IMPERVIOUS: 37,461 S.F. (47.34%)



LEGEND

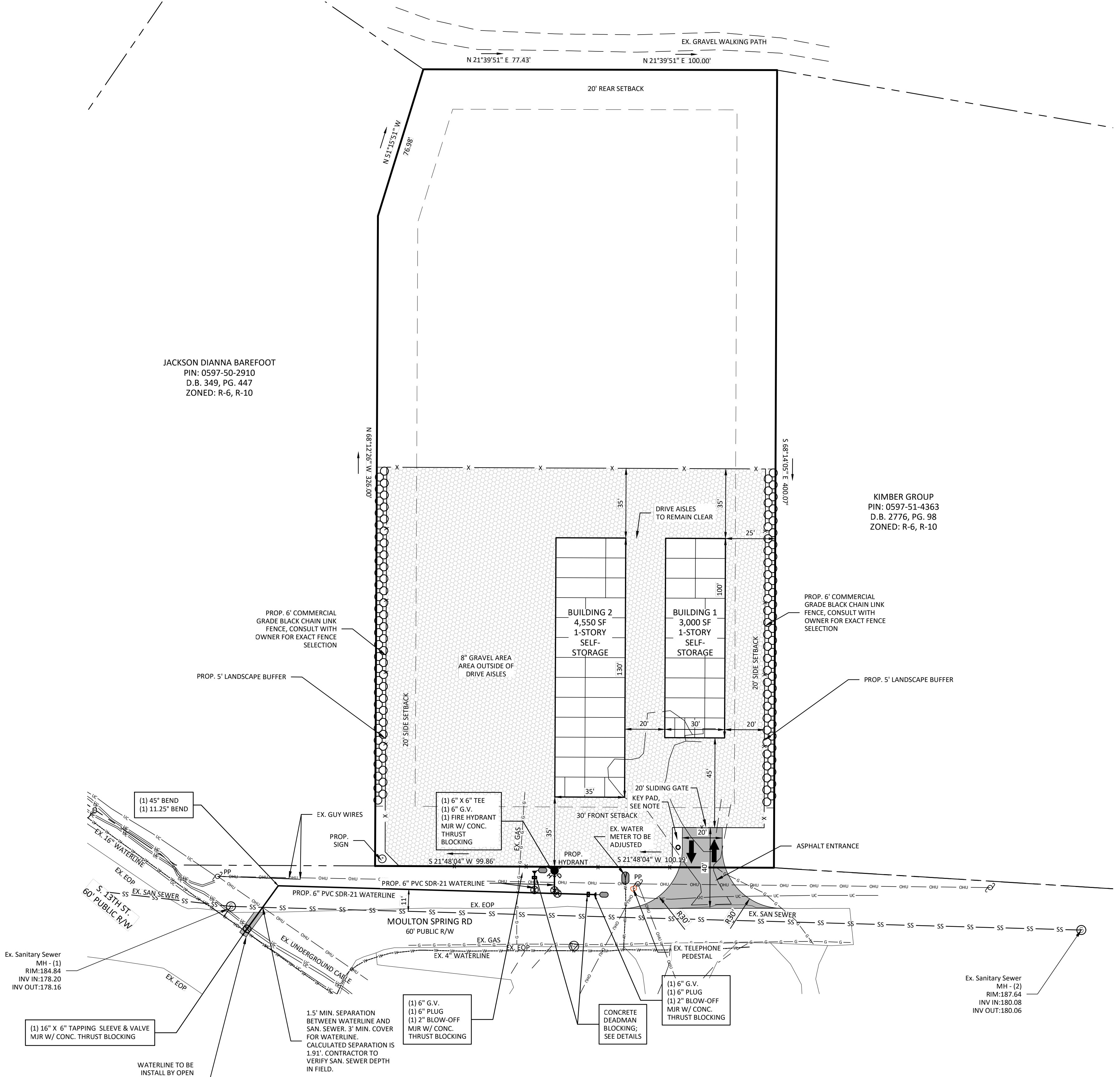
WATER METER BOX (WM)	FIRE HYDRANT (HYD)
WATER VALVE (WV)	SANITARY SEWER MANHOLE (SSMH)
STORM MANHOLE (STMH)	CLEAN OUT
UTILITY POLE	DEED BOOK
LIGHT POLE	PLAY BOOK
GROUND LIGHT	PAGE
GUY WIRE	RIGHT-OF-WAY
YARD INLET (YI)	EDGE OF PAVEMENT
GAS VALVE	EDGE OF GRAVEL
OVERHEAD POWER LINE	CONCRETE
GAS LINE	REINFORCED CONCRETE PIPE
WATER LINE	DROP INLET
UNDERGROUND ELECTRICAL	CURB INLET
FENCE LINE	FINISH FLOOR ELEVATION
WOODSLIP (TYP.)	BSMT
	TYPED TELEPHONE PEDESTAL
	TELEPHONE HAND HOLD
	DMUE
	DRAINAGE MAINTENANCE & UTILITY EASEMENT



TOWN OF ERWIN
 PIN: 0597-41-4262
 D.B. 541, PG. 199
 ZONED: CV

JACKSON DIANNA BAREFOOT
 PIN: 0597-50-2910
 D.B. 349, PG. 447
 ZONED: R-6, R-10

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 PIN: 0597-51-4363
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© 2024 STOLTZUS ENGINEERING, INC.

STORE-IT-SAFE SELF-STORAGE, ERWIN, NC

SITE, UTILITY & LANDSCAPING PLAN

OWNER & DEVELOPER INFORMATION:
 AIKEN & WALTER KEPLER
 721 ANCIENT OAKS DR.
 HOLLY SPRINGS, NC 27540-8350

PROJECT LOCATION:
 STATE: NORTH CAROLINA
 COUNTY: HARNETT
 TOWNSHIP: ERWIN

NO. DATE REVISION NOTE

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DRAWN BY: WVC
 CHECKED BY: ARS
 DATE: 04/23/2024
 PROJECT NO.: 1104-02
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 SCALE: 1"=30'

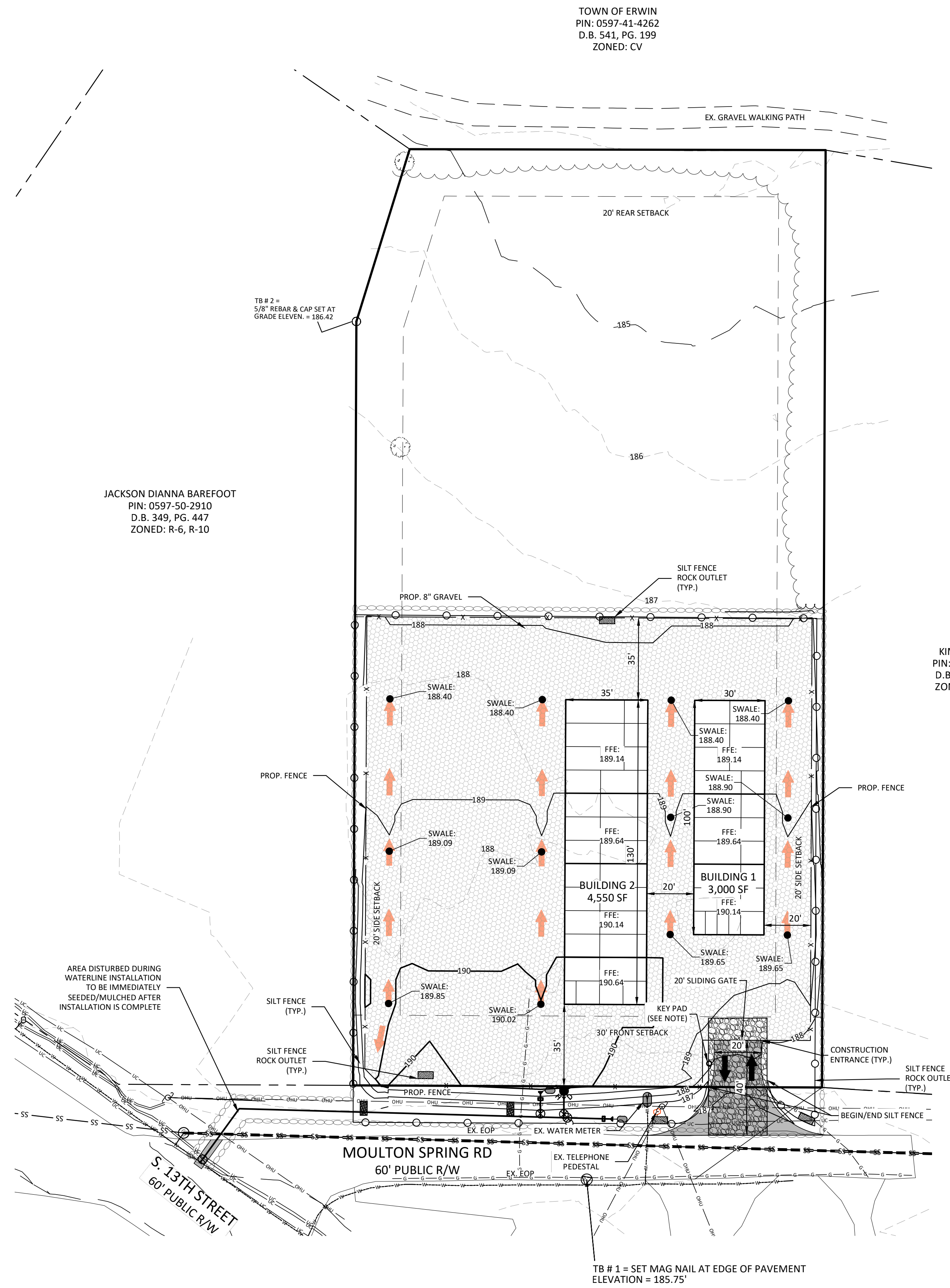
PROJECT FILE PATH: S:\Projects\1104-02\wg\wg\Master.dwg

811
 BEFORE YOU DIG!
 CALL 811 N.C. ONE-CALL CENTER
 IT'S THE LAW!

C3
3 OF 5

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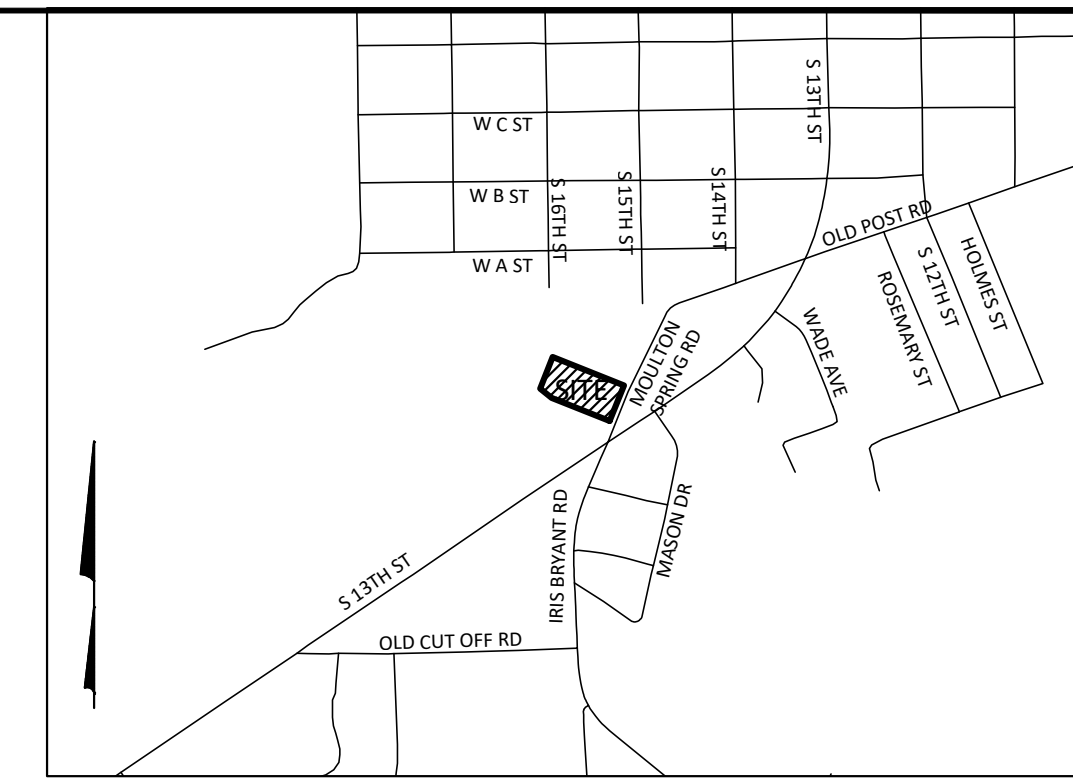
- CONTRACTOR TO LOCATE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
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- BOUNDARY & TOPOGRAPHIC SURVEY PERFORMED BY ALLRED LAND SURVEYING
- NO SURVEYING OR SUBSURFACE INVESTIGATIONS PERFORMED BY STOLTZBUS ENGINEERING, INC.
- THIS PROPERTY IS NOT LOCATED IN A FLOODPLAIN PER MAPS NUMBER 3710889400K, PANEL 8894; 3710889500K, PANEL 8895, BOTH DATED 2017-11-17
- THE DEVELOPMENT SHALL COMPLY WITH PHASE 2 STORMWATER RULES (POST CONSTRUCTION ORDINANCE) AND JORDAN LAKE BUFFER RULES AS APPLICABLE.
- THIS SITE IS NOT LOCATED IN A WATER SUPPLY WATERSHED.

EROSION CONTROL NOTES: (ALSO SEE DETAIL SHEETS)

- PROPOSED DISTURBED AREA: 0.93 AC
- THE EROSION AND SEDIMENTATION CONTROL MEASURES AND DEVICES SHOWN ON THE DRAWINGS ARE INTENDED AS A GUIDE. AS GRADING PROGRESSES, MEASURES MAY BE ADDED OR DELETED BY THE EROSION CONTROL OFFICER AS DEEMED NECESSARY TO CONTROL EROSION AND SEDIMENTATION. IF GRADING CONTRACTOR FEELS THAT ADDITIONAL MEASURES ARE NEEDED OTHER THAN THOSE INDICATED, GRADING CONTRACTOR SHOULD CONTACT THE OWNER AND ENGINEER IMMEDIATELY FOR APPROVAL OF THE CHANGES.
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KEY PAD NOTE:

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SIDE STREET: N/A

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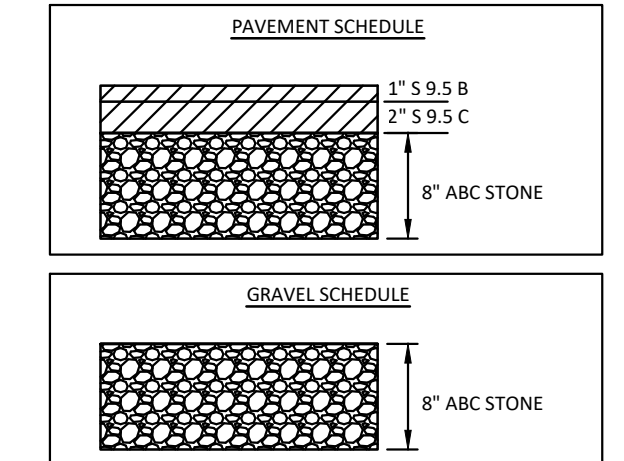
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BUA:

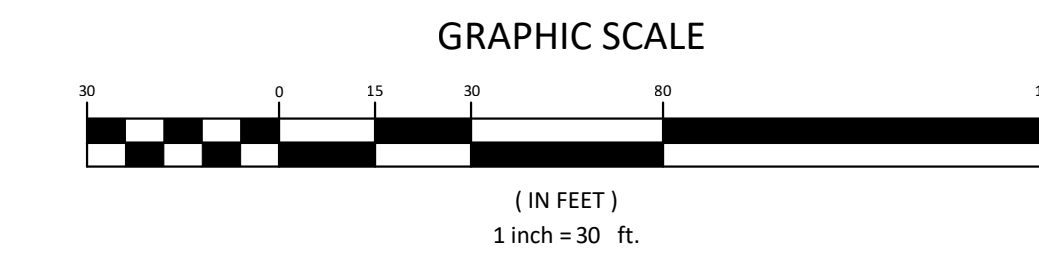
EXISTING BUA WAS PULLED FROM AERIAL PRIOR TO 2007.

EX. BUILDINGS:	6,137 S.F. (7.76%)
EX. GRAVEL:	1,603 S.F. (2.02%)
EX. CONC.:	73 S.F. (0.09%)
TOTAL EX. IMPERVIOUS:	7,813 S.F. (9.87%)
PROP. BUILDINGS:	7,550 S.F. (9.54%)
PROP. GRAVEL:	29,501 S.F. (37.28%)
PROP. ASPHALT:	410 S.F. (0.52%)
TOTAL PROP. IMPERVIOUS:	37,461 S.F. (47.34%)



LEGEND

- WATER METER BOX (WM)
- WATER VALVE (WV)
- STORM MANHOLE (STMH)
- UTILITY POLE
- LIGHT POLE
- GROUND LIGHT
- GUY WIRE
- YARD INLET (YI)
- GAS VALVE
- OVERHEAD POWER LINE
- GAS LINE
- WATER LINE
- UNDERGROUND ELECTRICAL
- FENCE LINE
- WOODS(LINE) (TYP.)
- FIRE HYDRANT (HYD)
- SANITARY SEWER MANHOLE (SSMH)
- CLEAN OUT
- DEED BOOK
- PB PLAT BOOK
- PG PAGE
- R/W RIGHT-OF-WAY
- E/P EDGE OF PAVEMENT
- E/GS EDGE OF GRAVEL
- CONC CONCRETE
- RCP REINFORCED CONCRETE PIPE
- DI DROP INLET
- CI CURB INLET
- FFE FINISH FLOOR ELEVATION
- BSMT BASEMENT
- TPED TELEPHONE PEDESTAL
- THH TELEPHONE HAND HOLD
- DMUE DRAINAGE MAINTENANCE & UTILITY EASEMENT
- PROP. DISTURBED LIMITS
- TEMP. DIVERSION BERM
- DRAINAGE SWALE



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SEI
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Civil Engineering Consultants

STORE-IT-SAFE SELF-STORAGE, ERWIN, NC

GRADING & EROSION PLAN

OWNER & DEVELOPER INFORMATION:
AKEN KEPLER
721 ANCIENT OAKS DR.
HOLLY SPRINGS, NC 27540-8330

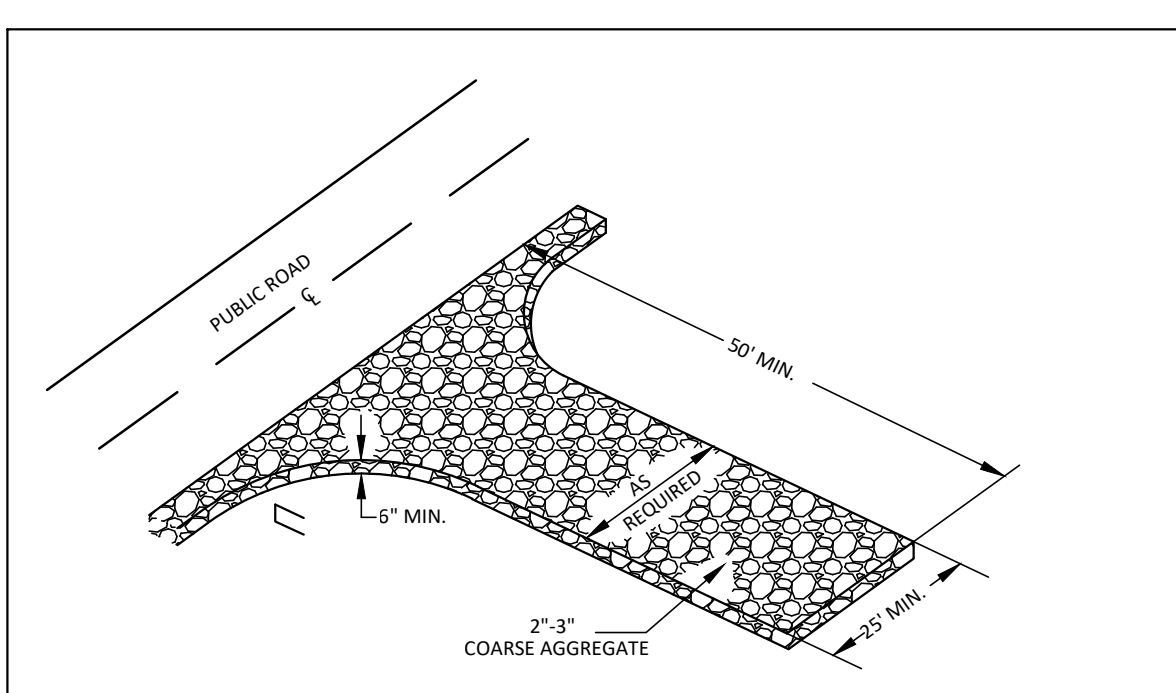
PROJECT LOCATION:
STATE: NORTH CAROLINA
COUNTY: HARNETT
TOWNSHIP: ERWIN

NO.	DATE	REVISION NOTE
1		
2		
3		
4		
5		

DRAWN BY: VWC
CHECKED BY: ARS
DATE: 04-23-2024
PROJECT NO.: 1104-02
REF. NO.:
SCALE: 1"=30'

811
BEFORE YOU DIG!
CALL 811 N.C. ONE-CALL CENTER
IT'S THE LAW!

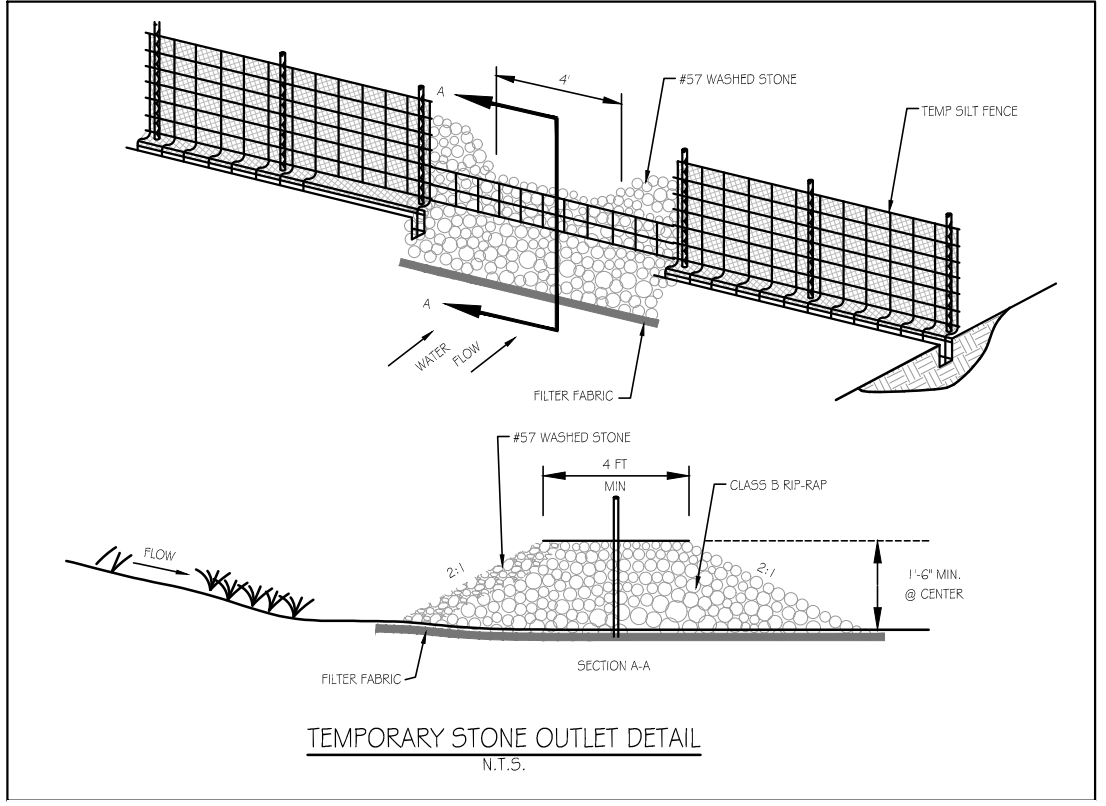
C4
4 OF 5



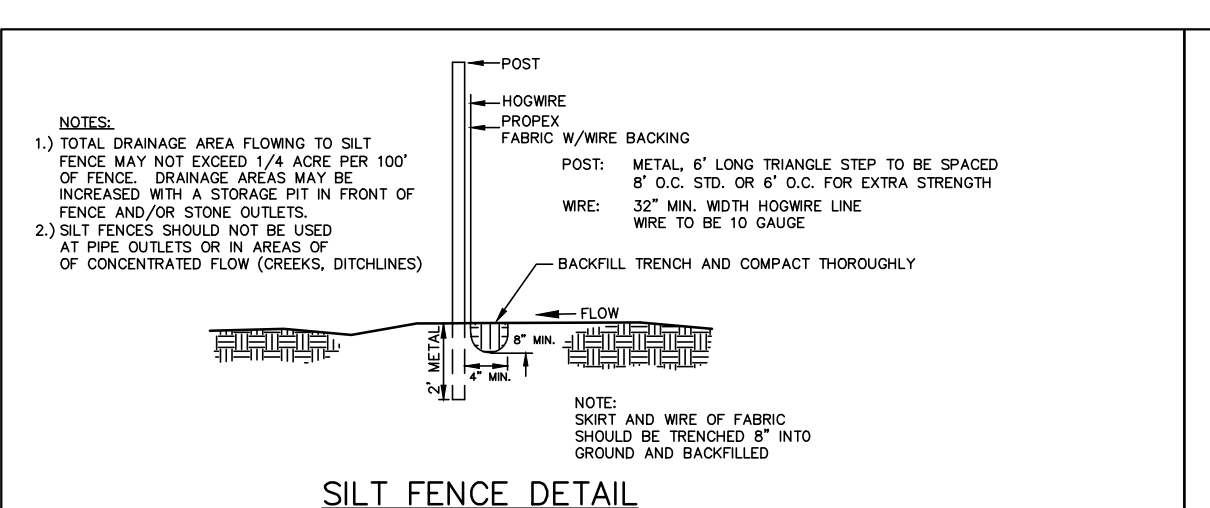
TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

- CONSTRUCTION SPECIFICATIONS:**
1. CLEAR THE ENTRANCE AND EXIT AREA OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL AND PROPERLY GRADE IT.
 2. PLACE THE GRAVEL TO THE SPECIFIED GRADE AND DIMENSIONS SHOWN ON THE PLANS, AND SMOOTH IT.
 3. PROVIDE DRAINAGE TO CARRY WATER TO A SEDIMENT TRAP OR OTHER SUITABLE OUTLET.
 4. USE GEOTEXTILE FABRICS BECAUSE THEY IMPROVE STABILITY OF THE FOUNDATION IN LOCATIONS SUBJECT TO SEEPAGE OR HIGH WATER TABLE.

MAINTENANCE
 MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH 2 INCH STONE. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED OR TRACKED ONTO PUBLIC ROADWAYS.



TEMPORARY STONE OUTLET DETAIL

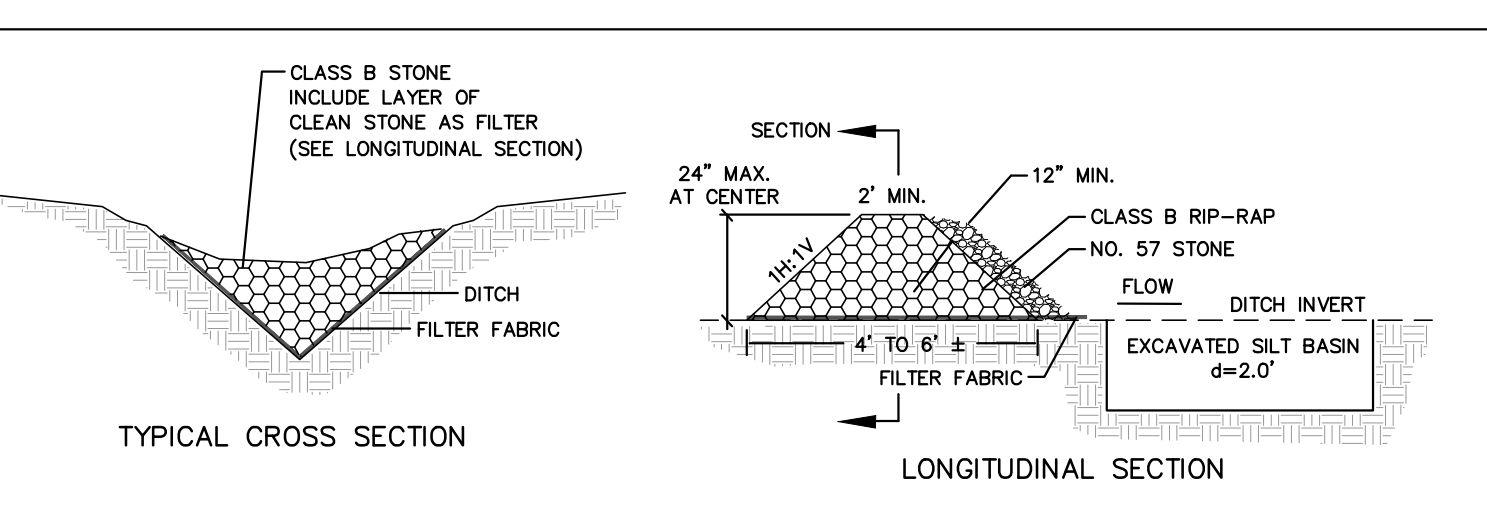


SILT FENCE DETAIL

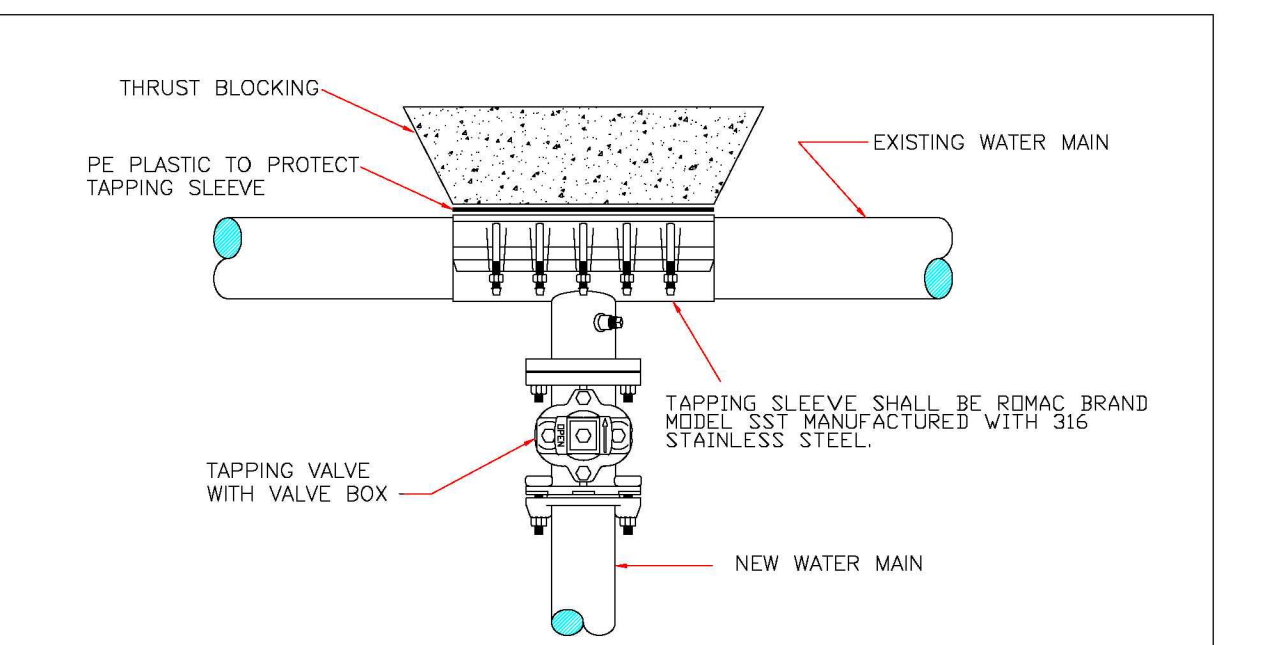
MAINTENANCE
 RESPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
 REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.

REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

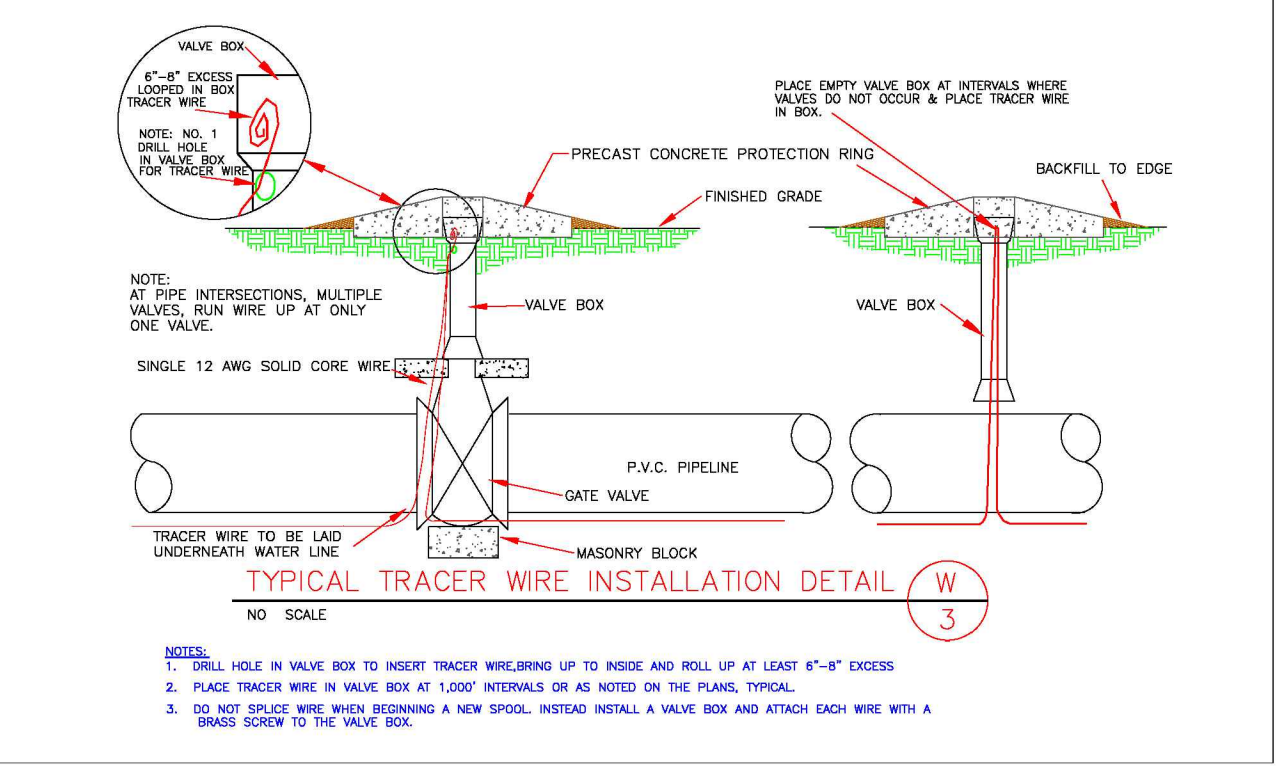
Silt Fence Materials
 Use a synthetic filter fabric of at least 95% by weight of polyolefins or polyester, which is certified by the manufacturer or supplier as conforming to the requirements in ASTM D 6461.
 Synthetic filter fabric should contain ultraviolet ray inhibitors and stabilizers to provide a minimum of 6 months of expected usable construction life at a temperature range of 0 degrees to 120 degrees Fahrenheit.
 Ensure that posts for sediment fences are 1.33 lb/linear ft minimum steel with a minimum length of 5 feet. Make sure that steel posts have projections to facilitate fastening the fabric.
 For reinforcement of standard strength filter fabric, use wire fence with a minimum 14 gauge and a maximum mesh spacing of 6 inches.



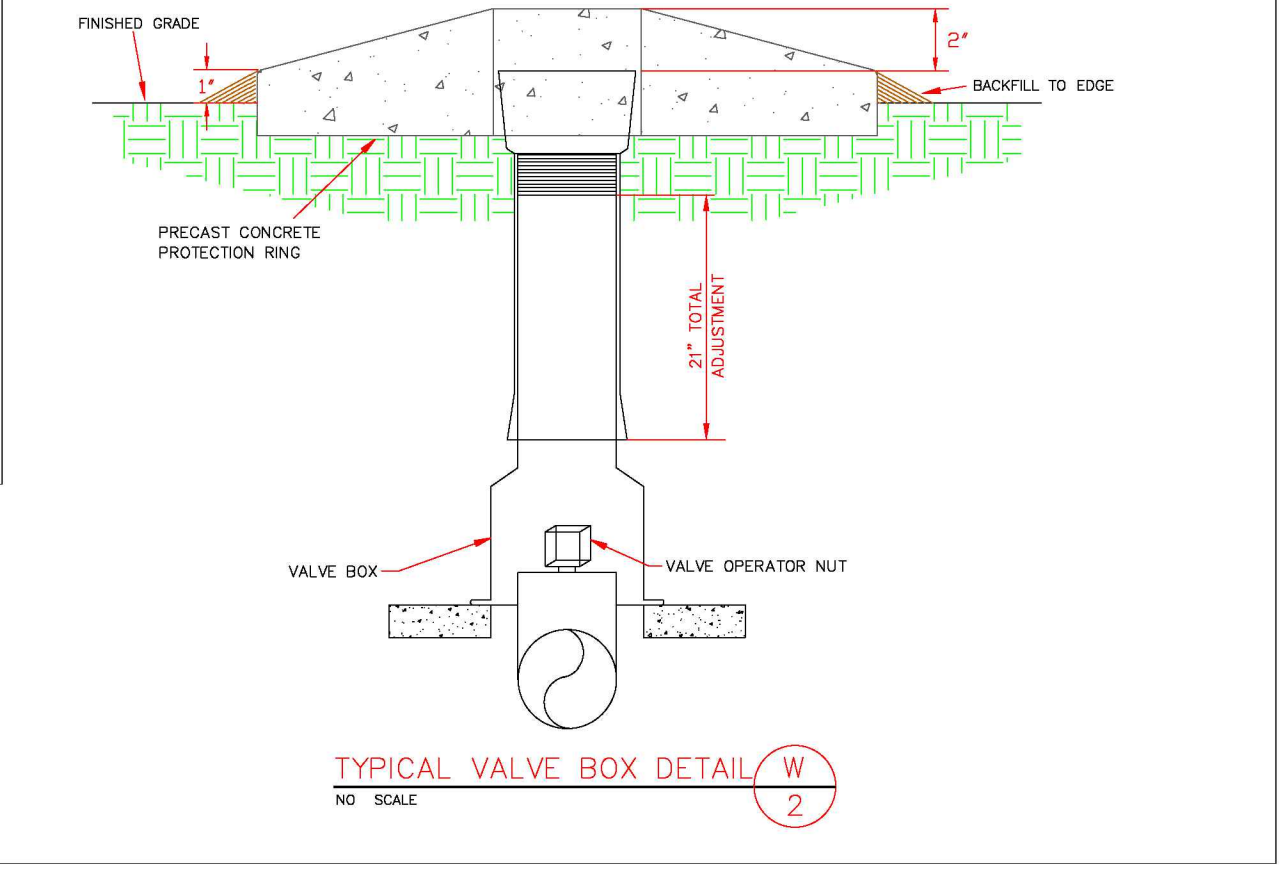
TEMPORARY ROCK CHECK DAM DETAIL AS (REQUIRED)



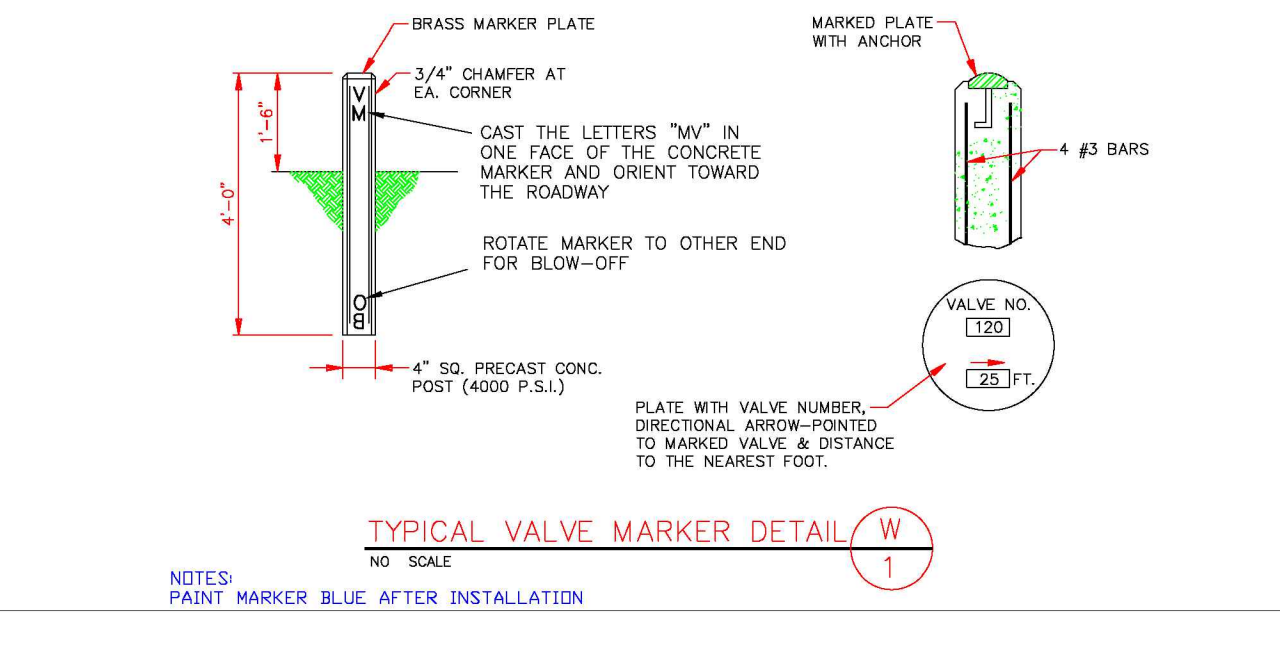
TYPICAL TAPPING SLEEVE AND VALVE ASSEMBLY DETAIL W 5



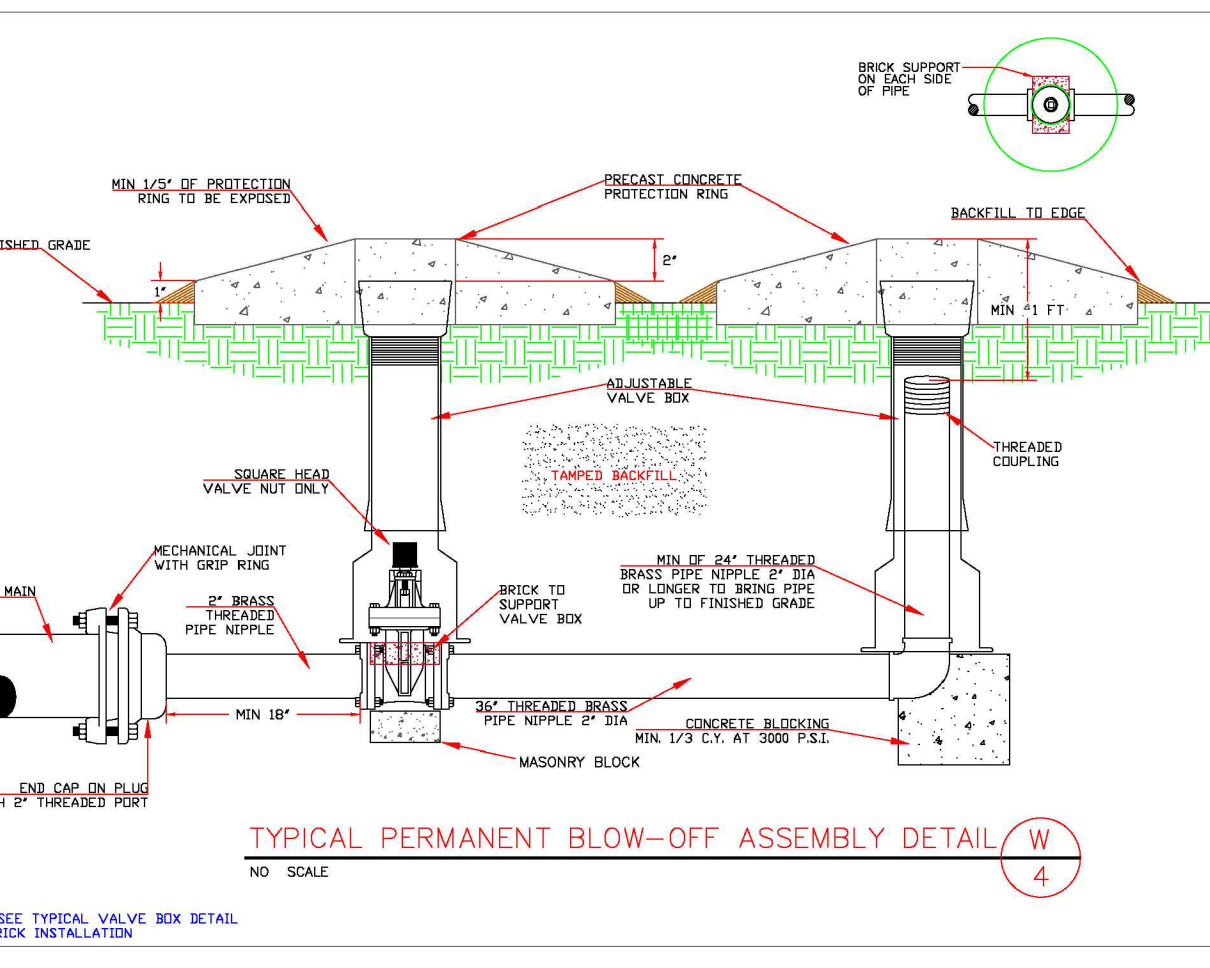
TYPICAL TRACER WIRE INSTALLATION DETAIL W 3



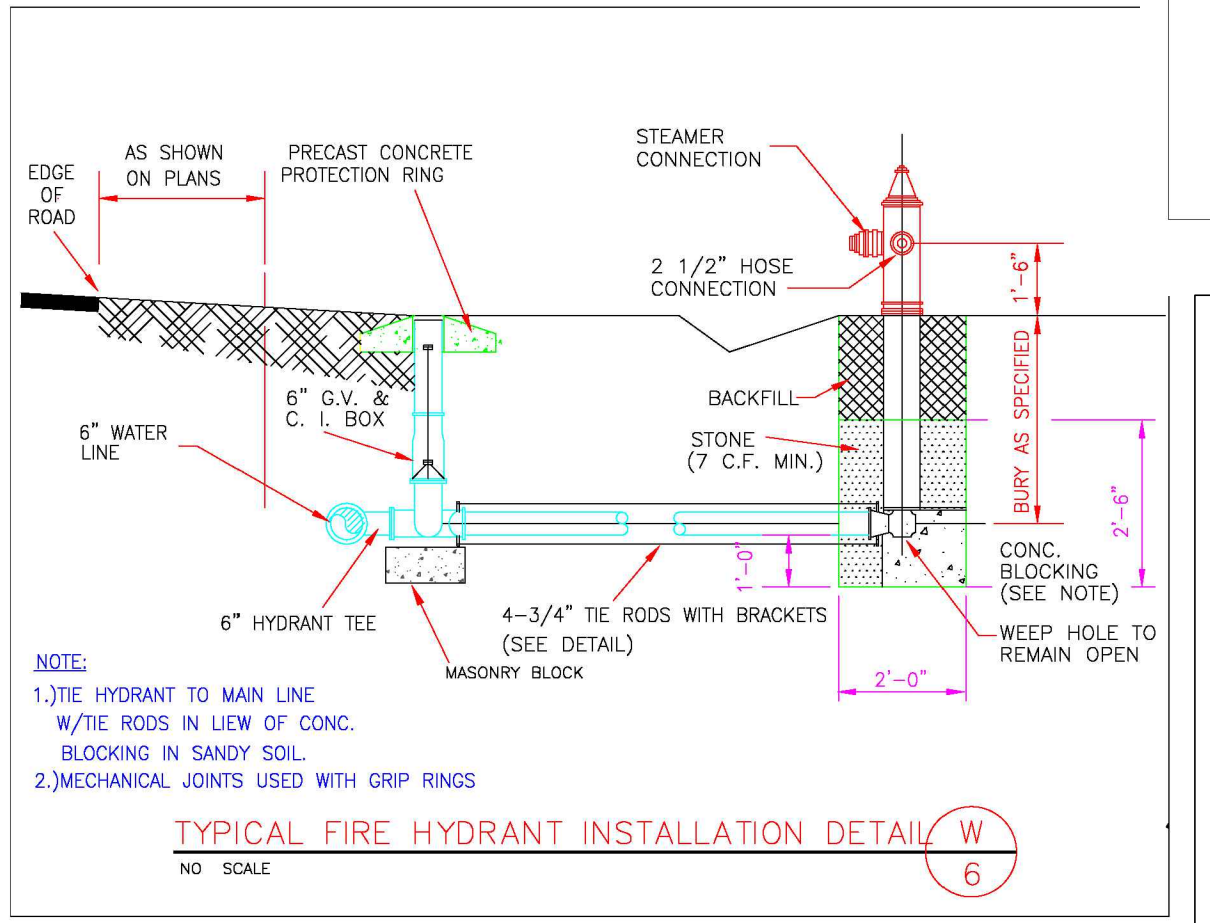
TYPICAL VALVE BOX DETAIL W 2



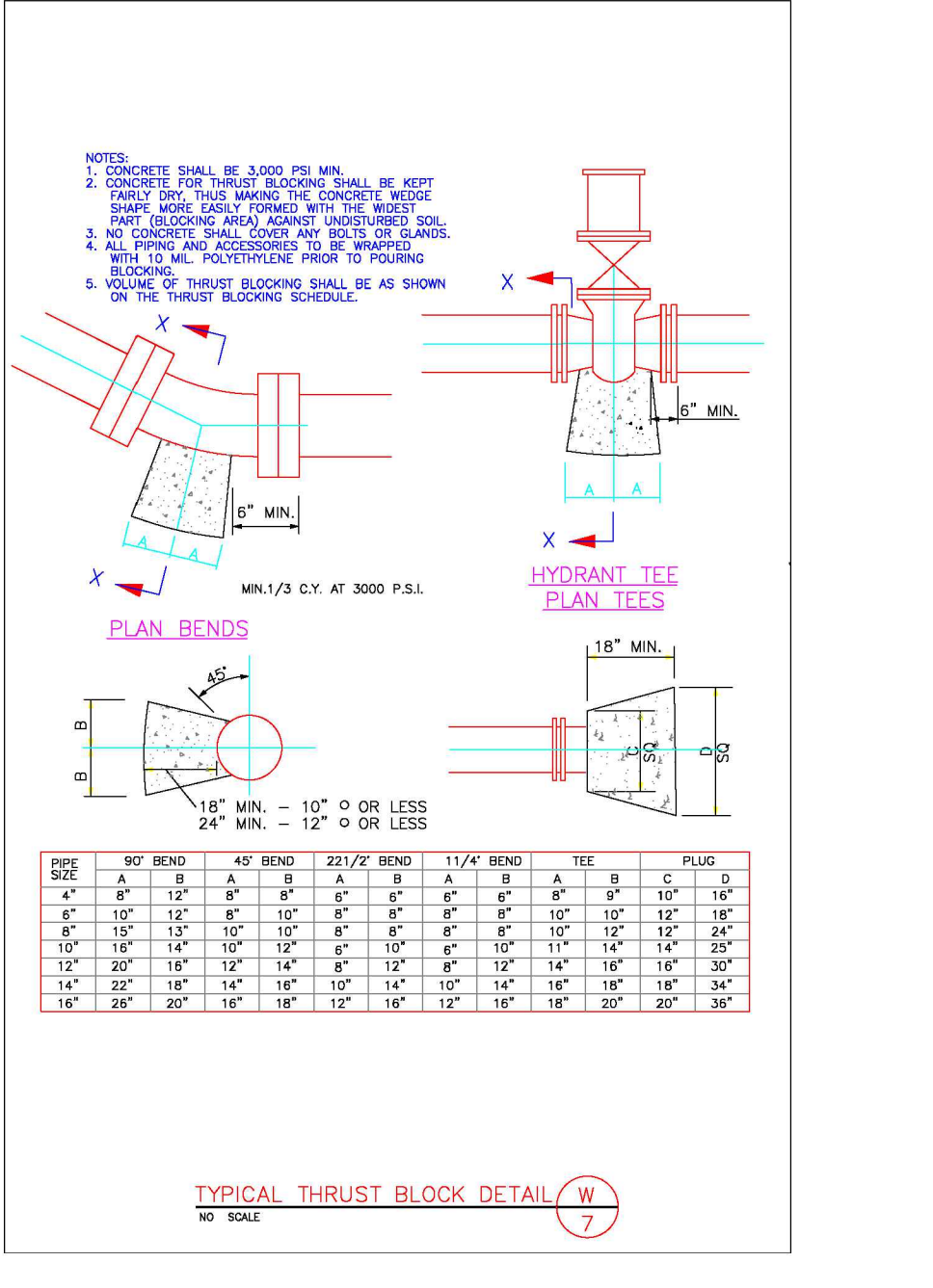
TYPICAL VALVE MARKER DETAIL W 1



TYPICAL PERMANENT BLOW-OFF ASSEMBLY DETAIL W 4



TYPICAL FIRE HYDRANT INSTALLATION DETAIL W 6



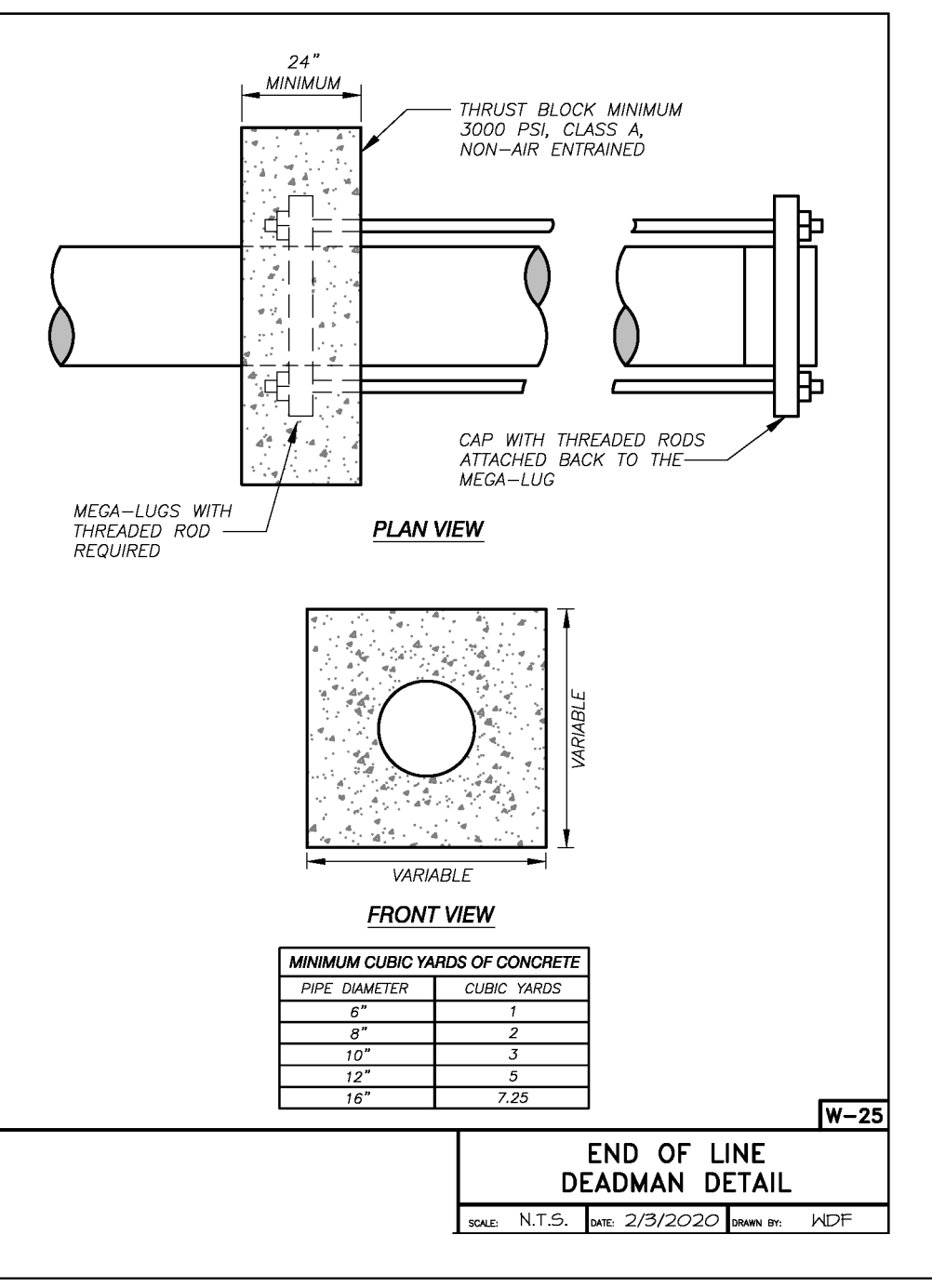
TYPICAL THRUST BLOCK DETAIL W 7

EROSION CONTROL

NORTH AMERICAN GREEN
 Products
 Guaranteed SOLUTIONS
 14649 HIGHWAY 41 NORTH
 EVANSVILLE, IN 47725
 800-772-2040
 www.nogreen.com

SLOPE INSTALLATION

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (REC'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
 NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE REC'S IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF REC'S EXTENDING BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE REC'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF REC'S BACK OVER SEED AND COMPACTED SOIL. SECURE REC'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE REC'S.
3. ROLL THE REC'S (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. REC'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL REC'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL REC'S MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON REC'S TYPE.
5. CONSECUTIVE REC'S SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE REC'S WIDTH.
 NOTE:
 *IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE REC'S.



TEMPORARY SEEDING RECOMMENDATIONS FOR SUMMER

SEEDING MIXTURE
 SPECIES: GERMAN MILLET, PLEASANT MOUNTAIN, SMALL-STEMMED SUDAGRASS
 RATE (LB/ACRE): 40

SEEDING DATES
 MOUNTAINS: MAY 15 - AUGUST 15
 PLEASANT: MAY 1 - AUGUST 15
 COASTAL PLAIN: APRIL 15 - AUGUST 15

SOIL AMENDMENTS
 FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER

MULCH
 APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE
 RE-FERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, RE-FERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

SEEDING FOR GRASS-LINED SWALES

SEEDING MIXTURE
 SPECIES: TALL FESCUE
 RATE (LB/ACRE): 200 (4-5 LB/1,000 SQ. FT.)

NURSE PLANTS
 BETWEEN MAY 1 AND AUGUST 15, ADD 10 LB/ACRE SUDAGRASS OR 10 LB/ACRE GERMAN MILLET. PRIOR TO MAY 1, OR AFTER AUGUST 15, ADD 40 LB/ACRE RYE (GRAIN).

SEEDING DATES
 BEST: AUGUST 25 - OCTOBER
 POSSIBLE: FEBRUARY - APRIL 15
 AVOID SEEDING FROM NOVEMBER TO JANUARY. IF SEEDING MUST BE DONE AT THIS TIME, ADD 40 LB/ACRE RYE GRAIN AND USE A CHANNEL LINING THAT OFFERS MAXIMUM PROTECTION.

SOIL AMENDMENTS
 APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS, OR APPLY 4,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 1,000 LB/ACRE 10-10-10 FERTILIZER. OPERATE TILLAGE EQUIPMENT ACROSS THE WATERWAY.

MULCH
 USE A ROLLED EROSION CONTROL PRODUCT TO COVER THE BOTTOM OF CHANNELS AND DITCHES, AND STAPLE SECURELY. THE LINING SHOULD EXTEND ABOVE THE HIGHEST CALCULATED DEPTH OF FLOW. ON CHANNEL SIDE SLOPES ABOVE THIS HEIGHT, AND IN DRAINAGES NOT REQUIRING TEMPORARY LININGS, APPLY 4,000 LB/ACRE GRASS STRAW AND ANCHOR STRAW BY STAPLING NETTING OVER THE TOP. MULCH AND ANCHORING MATERIALS MUST NOT BE ALLOWED TO WASH DOWN SLOPES WHERE THEY CAN CAUSE EROSION DEVICES.

MAINTENANCE
 INSPECT AND REPAIR MULCH FREQUENTLY. RE-FERTILIZE IN LATE WINTER OF THE FOLLOWING YEAR. USE SOIL TESTS OR APPLY 150 LB/ACRE 10-10-10. MOW REGULARLY TO A HEIGHT OF 2-4 INCHES.

PERMANENT SEEDING FOR GENTLE SLOPES, AVERAGE SOIL, LOW MAINTENANCE

SEEDING MIXTURE
 SPECIES: TALL FESCUE, SERICEA LESPEDEZA, KOBE LESPEDEZA
 RATE (LB/ACRE): 80, 30, 10

SEEDING NOTES
 1. AFTER AUGUST 15 USE UNCAIRBRED SERICEA SEED.
 2. WHERE PERIODIC MOWING IS PLANNED OR A MOW AT APPEARANCE IS DESIRED, OMIT SERICEA AND INCREASE KOBE LESPEDEZA TO 40 LB/ACRE.
 3. TO EXTEND SPRING SEEDING DATES INTO WINTER, ADD 15 LB/ACRE HULLED BERMAUDGRASS. HOWEVER, AFTER MID-APRIL IT IS PREFERABLE TO SEED TEMPORARY COVER.

NURSE PLANTS
 BETWEEN MAY 1 AND AUGUST 15, ADD 10 LB/ACRE GERMAN MILLET OR 15 LB/ACRE SUDAGRASS. PRIOR TO MAY 1 OR AFTER AUGUST 15, ADD 40 LB/ACRE RYE (GRAIN).

SEEDING DATES
 FALL: AUGUST 25 - SEPTEMBER 15
 LATER WINTER: FEBRUARY 15 - MARCH 21
 POSSIBLE: AUGUST 20 - OCTOBER 25
 FEBRUARY 1 - APRIL 15
 FALL IS BEST FOR TALL FESCUE AND LATE WINTER FOR LESPEDEZAS. OVERSEEDING OF KOBE LESPEDEZA OVER FALL-SEED TALL FESCUE IS VERY EFFECTIVE.

SOIL AMENDMENTS
 APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS, OR APPLY 4,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 1,000 LB/ACRE 10-10-10 FERTILIZER.

MULCH
 APPLY 4,000 LB/ACRE GRASS STRAW OR EQUIVALENT COVER OF ANOTHER SUITABLE MULCHING MATERIAL. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR ROVING OR BY CRIMPING WITH A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE
 RE-FERTILIZE IN THE SECOND YEAR UNLESS GROWTH IS FULLY ADEQUATE. MAY BE MOWED ONCE OR TWICE A YEAR, BUT MOWING IS NOT NECESSARY. RESEED, FERTILIZE, AND MULCH DAMAGED AREAS IMMEDIATELY.

PERMANENT SEEDING FOR STEEP SLOPES OR POOR SOILS, LOW MAINTENANCE

SEEDING MIXTURE
 SPECIES: TALL FESCUE, SERICEA LESPEDEZA, KOBE LESPEDEZA
 RATE (LB/ACRE): 100, 30, 10

SEEDING NOTES
 1. IN EASTERN PIEDMONT ADD 25 LB/ACRE PENSACOLA BAHIAGRASS OR 10 LB/ACRE COMMON BERMAUDGRASS. USE COMMON BERMAUDGRASS ONLY WHERE IT IS UNLIKELY TO BECOME A PEST.
 2. AFTER AUGUST 15, USE UNCAIRBRED SERICEA SEED.
 3. WHERE A NEAT APPEARANCE IS DESIRED, OMIT SERICEA AND SUBSTITUTE 40 LB/ACRE BAHIAGRASS OR 15 LB/ACRE BERMAUDGRASS.
 4. TO EXTEND SPRING SEEDING DATES INTO WINTER, ADD 15 LB/ACRE HULLED BERMAUDGRASS. HOWEVER, IT IS PREFERABLE TO SEED TEMPORARY COVER AND SEED FESCUE IN SEPTEMBER.

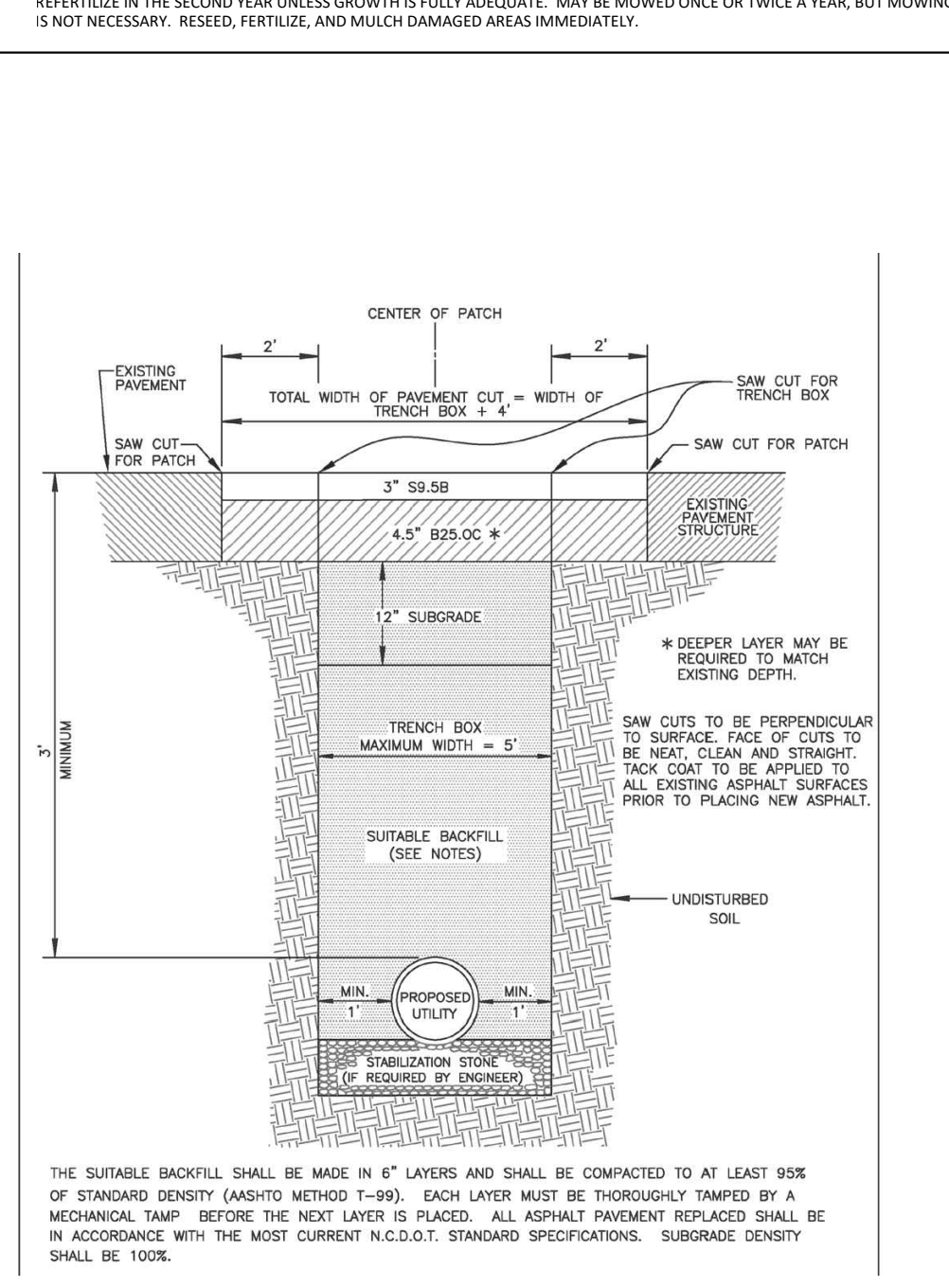
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SEEDING DATES
 FALL: AUGUST 25 - SEPTEMBER 15
 LATER WINTER: FEBRUARY 15 - MARCH 21
 POSSIBLE: AUGUST 20 - OCTOBER 25
 FEBRUARY 1 - APRIL 15
 FALL IS BEST FOR TALL FESCUE AND LATE WINTER FOR LESPEDEZAS. OVERSEEDING OF KOBE LESPEDEZA OVER FALL-SEED TALL FESCUE IS VERY EFFECTIVE. USE UNHULLED BERMAUDGRASS SEED IN FALL.

SOIL AMENDMENTS
 APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS, OR APPLY 4,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 1,000 LB/ACRE 10-10-10 FERTILIZER.

MULCH
 APPLY 4,000-5,000 LB/ACRE GRASS STRAW, OR EQUIVALENT COVER OF ANOTHER SUITABLE MULCHING MATERIAL. ANCHOR MULCHING BY TACKING WITH ASPHALT, ROVING, OR NETTING. NETTING IS THE PREFERRED ANCHORING METHOD ON STEEP SLOPES.

MAINTENANCE
 RE-FERTILIZE IN THE SECOND YEAR UNLESS GROWTH IS FULLY ADEQUATE. MAY BE MOWED ONCE OR TWICE A YEAR, BUT MOWING IS NOT NECESSARY. RESEED, FERTILIZE, AND MULCH DAMAGED AREAS IMMEDIATELY.



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 336-904-0207
 683 Gralin Street
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SEI
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 Civil Engineering Consultants

PROJECT LOCATION:
 STATE ROUTE 100
 COUNTY: HARRETT
 TOWNSHIP: ERWIN

OWNER & DESIGNER INFORMATION:
 STEVEN K. WALKER, PROJECT MANAGER
 721 ANCIENT OAKS DR.
 HOLLY SPRINGS, NC 27540-8330

STORE-IT-SAFE SELF-STORAGE, ERWIN, NC

DETAILS

NO. DATE REVISION NOTE

DRAWN BY: WVC
 CHECKED BY: ARS
 DATE: 04-23-2024
 PROJECT NO.: 1104-02
 REF. NO.:
 SCALE: NTS

C5
5 OF 5