SITE DEVELOPMENT PLANS COTTAGES AT GENERATION VILLAGE

WILLARD, GREENE COUNTY, MISSOURI

TRUMAN RD SILVERLEAF LN CEDAR LN OSAGE DR PINE ST E SIMPSON ST WRIGHT ST BECKY ST COLBY ST SHELLEY ST SIDNEY ST SIDNEY ST WELVILLE RD

VICINITY MAP

Cottages at Generation Village, LP

3556 S. CULPEPPER CIRCLE, SUITE 4 SPRINGFIELD, MO 65804 PH. (417) 882-1701

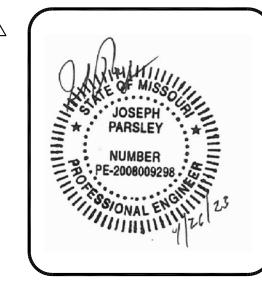
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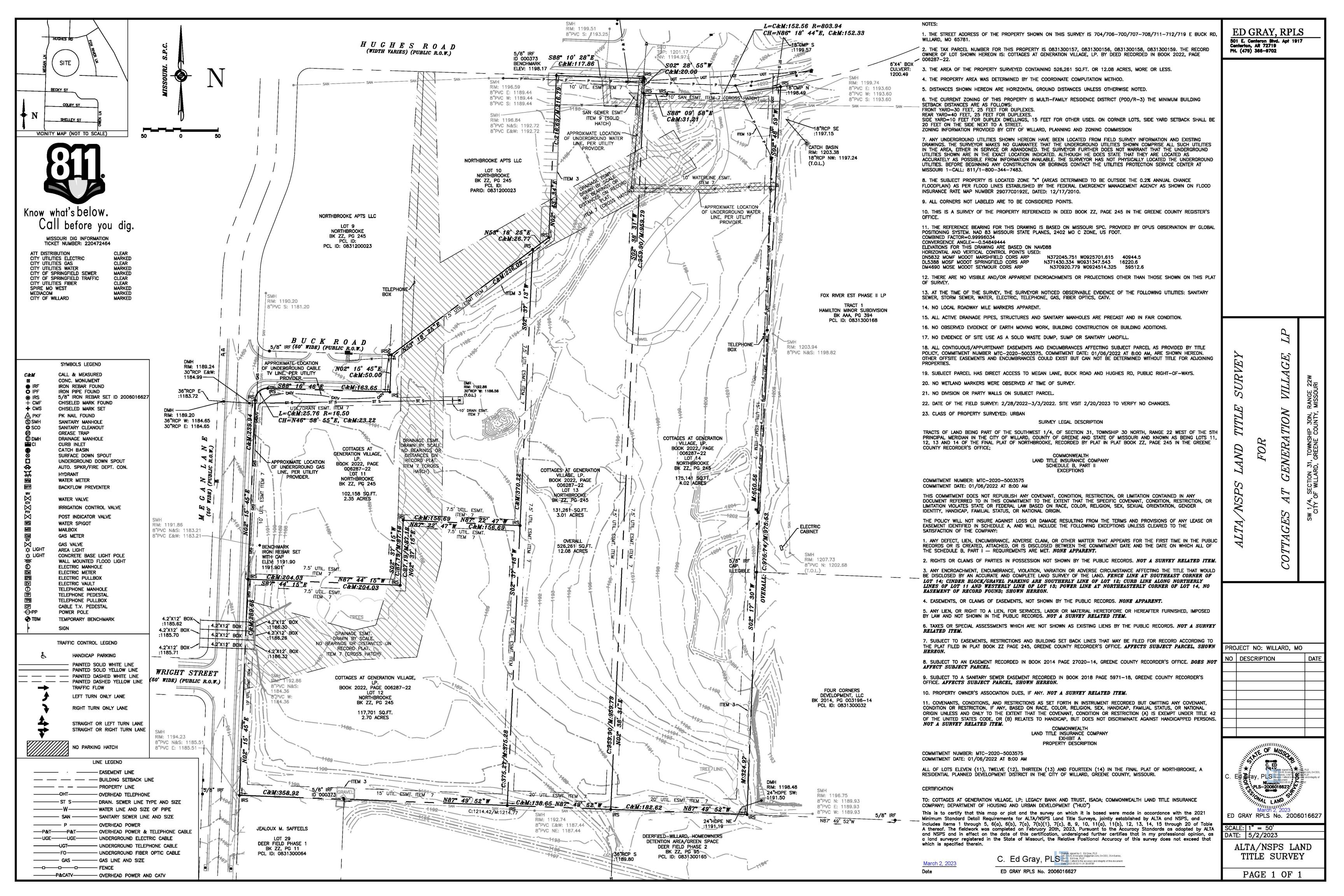


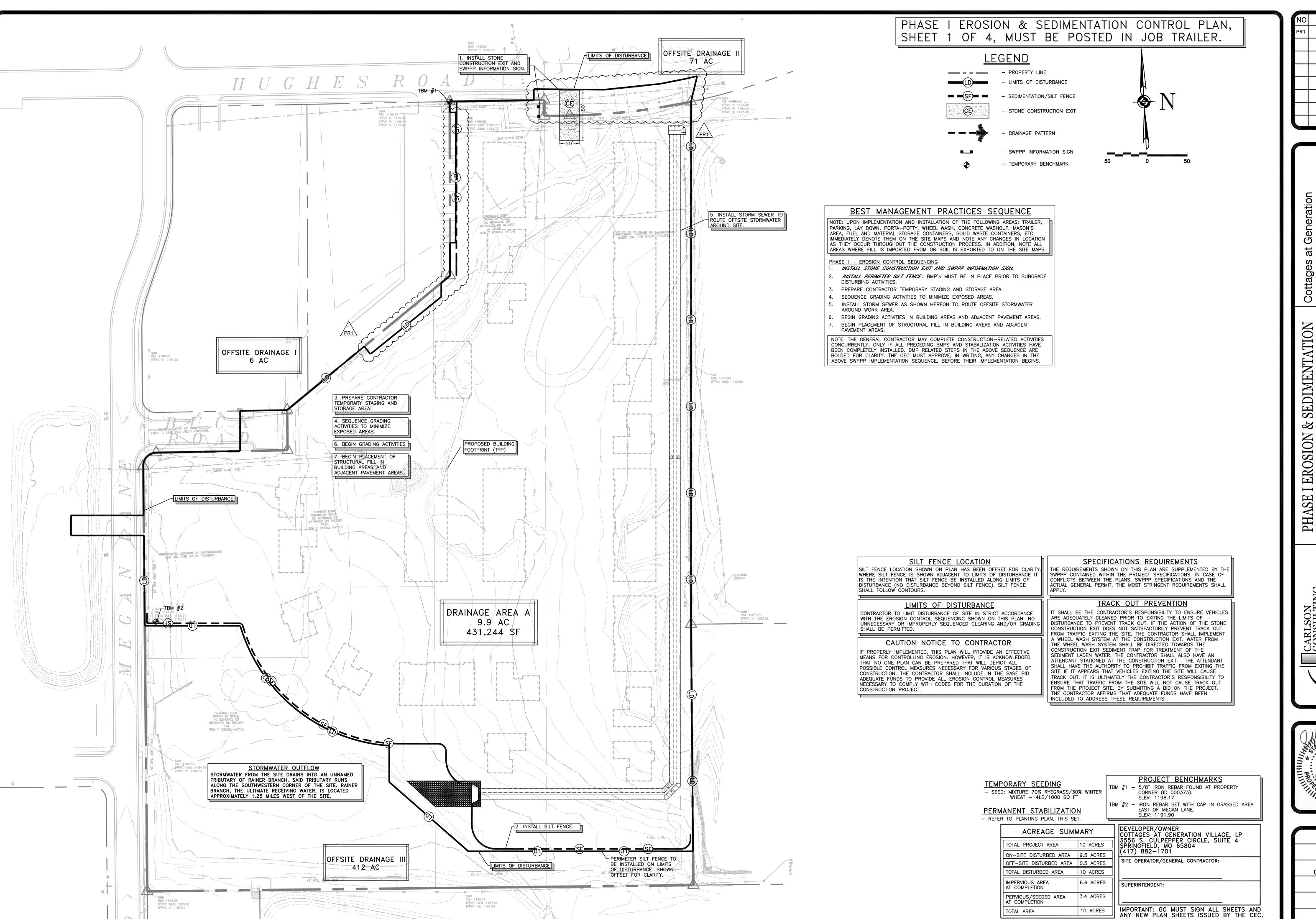


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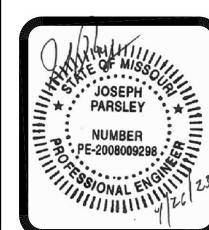
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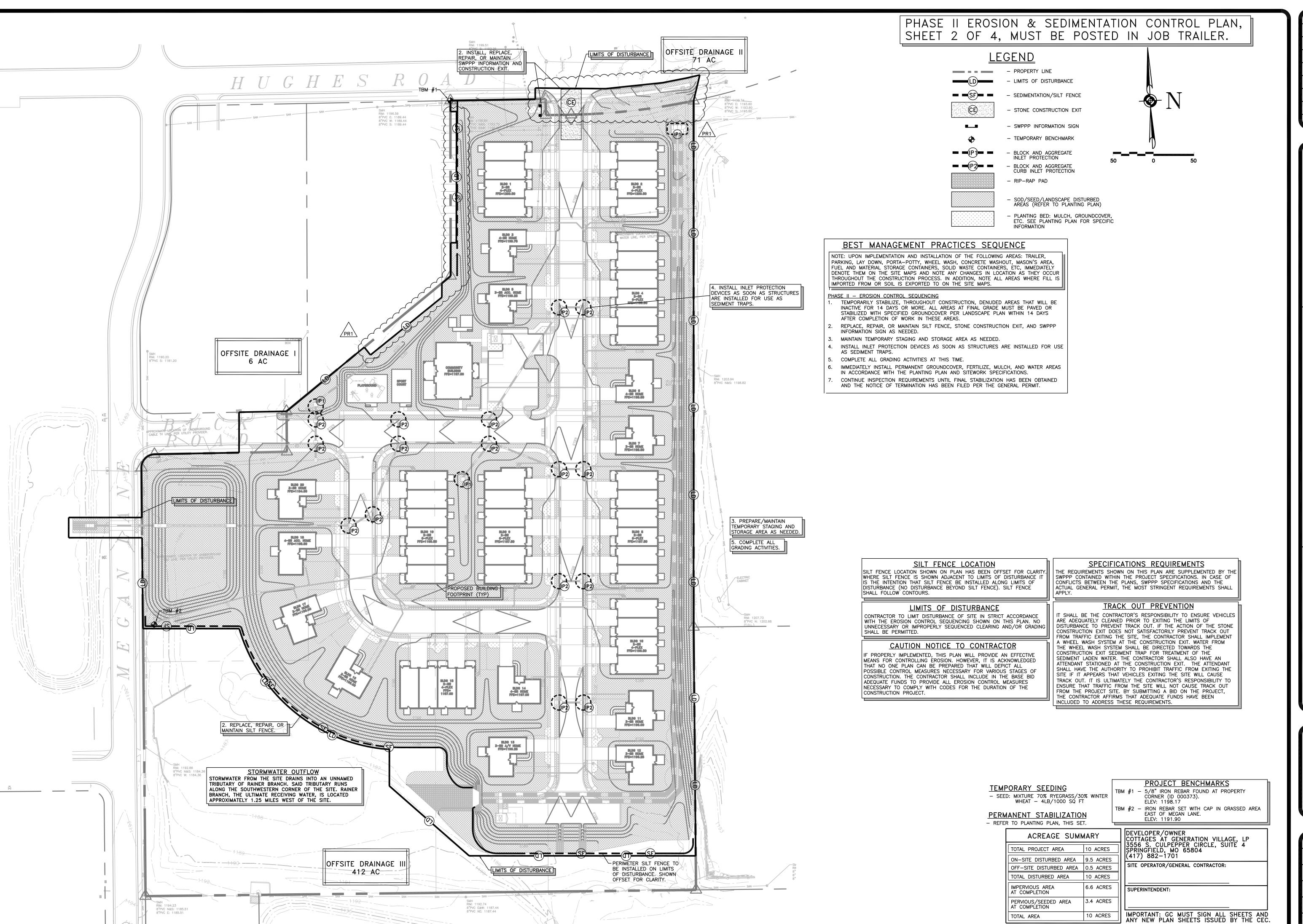
PLAN REVISION # 4/26/23

Cottage: Village, I 3556 S. CUL SPRINGFIELD, PH. (417) &



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	DATE
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	SCALE
	1"=50'
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	N/A
	SHEET
	3 OF 32
WWW.	

TOTAL AREA



PR1 PLAN REVISION #1 4/26/23

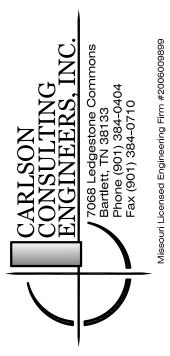
s at Generation LP

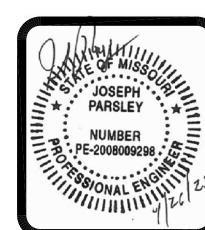
Cottages at Gene Village, LP

3556 S. CULPEPPER CIRCLI SPRINGFIELD, MO 65908

E PH. (417) 882-1701

PHASE II EROSION & SEDIMENTATIC
CONTROL PLAN
OTTAGES AT GENERATION VILLA
WIT LARD MISSOITET





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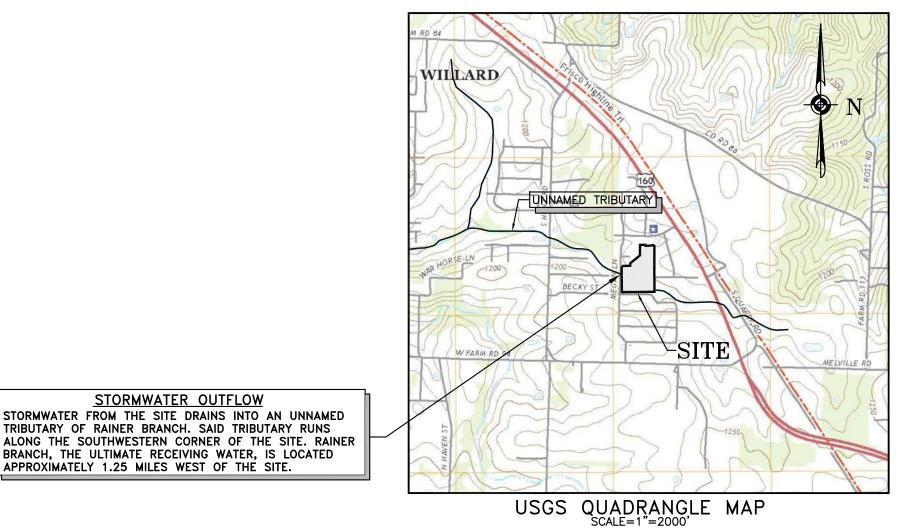
) CONTRACTOR MUST COMPLETE TABLE WITH ESTIMATED DATES OR PROJECT ACTIVITIES PRIOR TO BMP CERTIFICATION. TIME SCHEDULE MUST COINCIDE WITH THE SWPPP IMPLEMENTATION SEQUENCE.

OPERATION TIME SCHEDULE

			SI	TE	RAIN	IFAL	L S	SUMI	MAR	Υ		
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
AVERAGE RAINFALL IN INCHES	1.73	1.93	3.39	3.78	5.63	3.70	4.45	3.62	2.44	3.23	2.01	2.01
THE TOTAL A	AVERAGE	ANNUAL	RAINFALL	FOR THE	PROJEC	T AREA I	S: 37.9	1 INCHES	3			
					0 VEAD	/04 1101	ID DAIN I		7.0 INICI	IEC		

THE DESIGN RAIN EVENT FOR THE PROJECT IS: 2 YEAR/24 HOUR RAIN EVENT - 3.9 INCHES

SITE RAINFALL SUMMARY



SITE LOCATION SUMMARY SITE SOILS SUMMARY THE PROJECT GEOTECHNICAL REPORT INDICATES THAT THE SITE IS SOIL TYPE AND TEXTURE: LOCATED IN AN AREA WHERE CRETACEOUS AGE DEPOSITS OF THE WOLFE CITY FORMATION (Kwc) ARE PRESENT AT OR NEAR THE GROUND SURFACE. THE WOLFE CITY FORMATION (Kwc) IN THE PROJECT AREA GENERALLY CONSISTS OF INTERBEDDED SAND AND CALCAREOUS CLAY. BASED ON THE SUBSURFACE CONDITIONS IDENTIFIED BY THE EXPLORATORY BORINGS, THE GENERALIZED SUBSURFACE PROFILE CONSISTS OF INTERBEDDED CLAYEY SAND (SC), FAT CLAY (CH), AND LEAN CLAY (CL).

SITE LOCATION SUMMARY

MEGAN LANE IN WILLARD, MISSOURI,

37° 16′ 58″ N (37.282778° N)

93° 24′ 15″ W (93.404167° W)

EAST: MULTI-FAMILY RESIDENTIAL

WEST: MULTI-FAMILY RESIDENTIAL

SOUTH: SINGLE FAMILY RESIDENTIAL

NEAR SOUTHEAST CORNER OF INTERSECTION OF HUGHES ROAD AND

NORTH: MULTI-FAMILY RESIDENTIAL & POLICE STATION

GROUNDWATER WAS NOT ENCOUNTERED DURING OR AFTER THE

NOTE: THE ABOVE SOILS INFORMATION IS FOR INFORMATION ONLY AND SHOULD NOT BE USED FOR BIDDING PURPOSES, CONSTRUCTION COSTS OR ESTIMATING

COMPLETION OF DRILLING ACTIVITIES.

SITE SOILS SUMMARY

AVERAGE DEPTH TO GROUNDWATER:

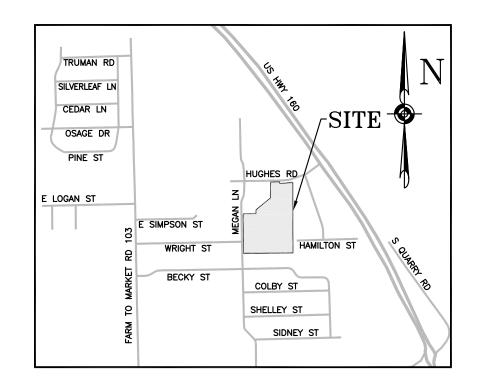
ADDRESS:

CENTER OF SITE:

LATITUDE:

LONGITUDE:

ADJACENT SURROUNDING PROPERTIES:



SITE LOCATION MAP

- 1. CONSIDERATION MUST BE GIVEN TO ANTICIPATED CLIMATE AND SEASONAL CONDITIONS WHEN PLANTING SEED.
- 2. SEED SHALL BE FREE OF WEEDY SPECIES AND APPROPRIATE FOR SITE SOILS AND PLANTING SPECIFICATION IMMEDIATELY AFTER TOPSOIL IS APPLIED AND FINAL GRADE IS
- BUILDING FOUNDATION OR PAVEMENT, OTHER LANDSCAPING COVER (STONE, MULCH, ETC.). OR HAVE A STAND OF GRASS WITH A MINIMUM OF 70 PERCENT DENSITY OVER THE ENTIRE VEGETATED AREA, OR GREATER IN ACCORDANCE WITH THE GENERAL PERMIT REQUIREMENTS. 4. VEGETATED AREAS MUST BE WATERED, FERTILIZED, AND RESEEDED AS NEEDED TO ACHIEVE
- CONSIDERED STABILIZED. AREAS PROTECTED BY EROSION CONTROL BLANKETS ARE NOT PERMANENTLY STABILIZED UNTIL THE APPLICABLE GENERAL PERMIT REQUIREMENT FOR FINAL
- 6. RIP-RAP, MULCH, GRAVEL, DECOMPOSED GRANITE OR OTHER EQUIVALENT PERMANENT STABILIZATION MEASURES MAY BE EMPLOYED IN LIEU OF VEGETATION BASED ON
- 7. ALL SEEDED AREAS SHALL BE INSPECTED REGULARLY TO CONFIRM THAT A HEALTHY STAND

SEEDING/VEGETATION REQUIREMENTS

QUADRANGLE MAP

STORMWATER OUTFLOW STORMWATER FROM THE SITE DRAINS INTO AN UNNAMED

TRIBUTARY OF RAINER BRANCH. SAID TRIBUTARY RUNS

BRANCH, THE ULTIMATE RECEIVING WATER, IS LOCATED

APPROXIMATELY 1.25 MILES WEST OF THE SITE.

- 1. PERMANENT STABILIZATION SHALL BE ACCOMPLISHED IN ALL DISTURBED AREAS BY COVERING THE SOIL WITH PAVEMENT, BUILDING STRUCTURES, VEGETATION, OR OTHER FORMS OF SOIL STABILIZATION.
- 2. THE GC IS REQUIRED TO INITIATE PERMANENT SOIL STABILIZATION MEASURES IMMEDIATELY UPON REACHING FINAL GRADE. FOR THOSE AREAS NOT AT FINAL GRADE THAT WILL NOT BE DISTURBED FOR GREATER THAN 14 DAYS, THE CONTRACTOR SHALL INITIATE TEMPORARY STABILIZATION PER THE TEMPORARY SEEDING OR
- 3. THE GC HAS 7 DAYS FROM INITIATION OF STABILIZATION TO COMPLETE SOIL PREPARATION, SEEDING, MULCHING, AND ANY OTHER REQUIRED ACTIVITIES RELATED TO THE PLANTING AND ESTABLISHMENT OF VEGETATION. THE GC ALSO HAS 7 DAYS FROM INITIATION OF STABILIZATION TO COMPLETELY INSTALL NON-VEGETATED
- 4. SOILS MUST BE PREPARED BEFORE INSTALLATION OF SOD OR SEED. SEE 02900 SPECIFICATION FOR INSTRUCTION ON PROPER SOIL PREPARATION.
- 5. AT THE COMPLETION OF GROUND—DISTURBING ACTIVITIES, THE ENTIRE SITE MUST HAVE PERMANENT VEGETATIVE COVER MEETING VEGETATIVE DENSITY REQUIREMENTS IN THE GENERAL PERMIT, OR MULCH PER LANDSCAPE PLAN, IN ALL AREAS NOT COVERED BY HARDSCAPE (STONE, PAVEMENT, BUILDINGS, ETC.).
- 6. SEEDED AREAS SHALL BE PROTECTED WITH STRAW MULCH, HYDRAULIC MULCH OR A ROLLED EROSION CONTROL PRODUCT. STRAW MULCH MUST BE TACKIFIED OR CRIMPED BY DISC OR OTHER MACHINERY, AND ROLLED EROSION CONTROL PRODUCTS MUST BE INSTALLED PER MANUFACTURER RECOMMENDATIONS. ONLY ROLLED EROSION CONTROL PRODUCTS ARE PERMITTED TO BE USED IN FLOW CONVEYANCES.
- 7. ALL AREAS TO BE SEEDED MUST MEET TOPSOIL DEPTH, PH AND ORGANIC CONTENT REQUIREMENTS AS SPECIFIED IN THE 02900 SPECIFICATION PLANTING OR XERISCAPE SPECIFICATION.
- 8. FINAL SITE STABILIZATION IS ACHIEVED WHEN PERENNIAL VEGETATIVE COVER PROVIDES PERMANENT STABILIZATION WITH A UNIFORM DENSITY GREATER THAN 70 PERCENT OVER THE ENTIRE AREA TO BE STABILIZED BY VEGETATIVE COVER. THIS AREA IS EXCLUSIVE OF AREAS THAT ARE COVERED WITH ROCK (CRUSHED GRANITE, GRAVEL, ETC.) OR LANDSCAPE MULCH, PAVED OR HAVE A BUILDING OR OTHER PERMANENT STRUCTURE ON THEM.

PERMANENT SEEDING, SOD OR MULCHING

VICINITY MAP

- 1. THE GC IS REQUIRED TO, AT A MINIMUM, INITIATE SOIL STABILIZATION MEASURES IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE, OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT LIKELY RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS.
- 2. THE GC HAS 7 DAYS FROM INITIATION OF STABILIZATION TO COMPLETE SOIL PREPARATION, SEEDING, MULCHING, AND ANY OTHER REQUIRED ACTIVITIES RELATED TO THE PLANTING AND ESTABLISHMENT OF VEGETATION. THE GC ALSO HAS 7 DAYS FROM INITIATION OF STABILIZATION TO COMPLETELY INSTALL NON-VEGETATED MEASURES, IF UTILIZED.
- 3. ALL DISTURBED AREAS MUST BE STABILIZED TEMPORARILY WITH THE USE OF FAST-GERMINATING ANNUAL GRASS/GRAIN VARIETIES APPROPRIATE FOR SITE SOIL AND CLIMATE CONDITIONS. MULCH IS REQUIRED FOR ALL SEEDING APPLICATIONS, AND ALL MULCH APPLICATIONS MUST INCLUDE A SUITABLE FORM OF MULCH ANCHORING TO MINIMIZE MOVEMENT OF MULCH BY WIND OR
- 4. ALTERNATIVE STABILIZATION MEASURES TO SEEDING, SUCH AS ANCHORED MULCH APPLICATION (WITHOUT SEEDING), MAY BE UTILIZED DURING PERIODS WHEN VEGETATIVE GROWTH IS UNLIKELY
- 5. IT IS NOT ACCEPTABLE TO ALLOW BARE SOIL TO REMAIN EXPOSED AT ANY TIME DURING THE YEAR, REGARDLESS OF WEATHER/TEMPERATURE/SITE CONDITIONS.
- 6. ALTERNATIVE STABILIZATION MEASURES INCLUDE, BUT ARE NOT LIMITED TO: ANCHORED STRAW/HAY MULCH, WOOD CELLULOSE FIBER MULCH, SPRAY-ON SOIL GLUES/BINDERS, AND ROLLED EROSION CONTROL PRODUCTS.
- 7. ALL ROLLED EROSION CONTROL PRODUCTS SHALL HAVE CURRENT QDOR(TM) STATUS ISSUED BY THE EROSION CONTROL TECHNOLOGY COUNCIL (ECTC) PLUS ANY STATE OR AGENCY-SPECIFIC REQUIREMENTS. EVIDENCE OF QDOR(TM) APPROVAL SHALL ACCOMPANY THE PRODUCT SHIPPED TO THE JOBSITE FOR READY IDENTIFICATION BY THE CONTRACTOR OR AGENCY INSPECTOR.
- 8. ROLLED EROSION CONTROL PRODUCTS (NETS, BLANKETS, TURF REINFORCED MATES) AND VEGETATED AREAS NOT MEETING REQUIRED VEGETATIVE DENSITIES FOR FINAL STABILIZATION MUST BE INSPECTED DAILY. RILING, RUTTING AND OTHER SIGNS OF EROSION INDICATE THE SPECIFIED EROSION CONTROL DEVICE IS NOT FUNCTIONING OR INSTALLED PROPERLY AND/OR ADDITIONAL EROSION CONTROL DEVICES ARE WARRANTED.

TEMPORARY SEEDING OR STABILIZATION

EROSION CONTROL DETAILS, SHEET 3 OF 4, MUST BE POSTED IN JOB TRAILER.

CONTENTS.

ALL PHASES OF CONSTRUCTION.

BY PERMITTING AGENCY OR OWNER.

WITH 02370 SPECIFICATION.

REQUIREMENTS.

POLLUTANT DISCHARGE.

MAINTENANCE REQUIREMENTS:

ACCORDANCE WITH THE FOLLOWING:

MATERIAL STORAGE

TO REDUCE RUNOFF VELOCITIES AND EROSION.

SEE SITE PLAN FOR PERMANENT SIGNAGE

PRODUCTS AND/OR HAZARDOUS WASTES.

MUST BE MAINTAINED ON SITE AT ALL TIMES.

CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.

AS REQUIRED BY THE GENERAL PERMIT.

("SITE MAP"), THE STANDARD DETAILS, SPECIFICATIONS SECTION 02370 ("SWPPP").

POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION

PREVENTION PLAN AND THE STATE NATIONAL POLLUTANT DISCHARGE ELIMINATION

CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY

THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST OF OWNER THROUGHOUT

APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED

CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR

GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND

STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES. OFFICE TRAILERS, AND TOILET FACILITIES. CONTRACTOR SHALL CONSTRUCT TEMPORARY BERM ON DOWN STREAM SIDES IN COMPLIANCE

ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING,

DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS

ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS SITE

DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION AND SEDIMENT CONTROL MEASURES (SILT FENCE, ETC.) TO PREVENT EROSION AND

GENERAL CONTRACTOR IS TO DESIGNATE/INDENTIFY AREAS ON THE SITE MAPS, INSIDE OF THE LIMITS OF DISTURBANCE, FOR WASTE DISPOSAL AND DELIVERY AND

REFER TO THE SWPPP FOR REPORTABLE SPILL QUANTITIES OF PETROLEUM

REFER TO 02370 SPECIFICATION FOR RUN-OFF SAMPLING/MONITORING

REQUIREMENTS IF APPLICABLE TO SITE DURING CONSTRUCTION.

THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION.

ONE-HALF THE HEIGHT OF THE SILT FENCE.

IMMEDIATELY BY A METHOD OTHER THAN FLUSHING.

CAUTION - NOTICE TO CONTRACTOR

MPROVEMENTS SHOWN BY THESE PLANS.

CONTRACTOR TO LIMIT DISTURBANCE OF SITE IN STRICT ACCORDANCE WITH

EROSION CONTROL SEQUENCING SHOWN ON THIS PLAN. NO UNNECESSARY OR IMPROPERLY SEQUENCED CLEARING AND/OR GRADING SHALL BE PERMITTED.

ALL MEASURES STATED ON THIS SITE MAP, AND IN THE STORM WATER POLLUTION

OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED IN

THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE

PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO

LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF

CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONTRACT DOCUMENTS

INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF

ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND

IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEEDED AS

SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED.

SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES

THE TEMPORARY PARKING AND STORAGE AREAS SHALL BE KEPT IN GOOD

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED

UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST

CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF

JTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE

THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL

PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY

CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AREA AS CONDITIONS DEMAND. PRIOR TO LEAVING THE SITE, ALL VEHICLES SHALL BE CLEANED OF DEBRIS. AND DEBRIS AND/OR SEDIMENT REACHING THE PUBLIC STREET SHALL BE CLEANED

REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION EXIT AS CONDITIONS

SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND

RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS, MATERIALS SHALL BE PREVENTED FROM

LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER

DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.

ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.

SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR

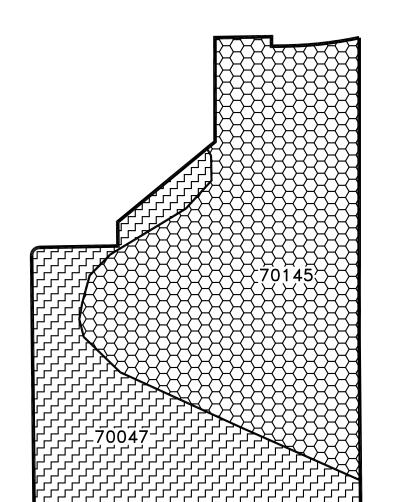
BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO

SITE MAP MUST CLEARLY DELINEATE ALL STATE WATERS. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS

FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS

PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.

ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER



SOIL SURVEY AREA MAP UNIT <u>SYMBOL</u>	SOIL NAME	SLOPES	HYDRIC CLASSIFICATION
70047	WANDA SILT LOAM	2-5%	NON-HYDRIC
70145	KEENO-BONA COMPLEX	2-5%	NON-HYDRIC

SOIL MAP

- REGIONAL CLIMATE. SEED AND MULCH PER THE CONSTRUCTION DRAWINGS AND THE 02900
- 3. THE SITE HAS ACHIEVED FINAL STABILIZATION ONCE ALL AREAS ARE COVERED WITH
- THIS REQUIREMENT. 5. THE VEGETATIVE DENSITY MUST BE MAINTAINED THROUGH PROJECT COMPLETION TO BE
- VEGETATIVE DENSITY IS ACHIEVED.
- SITE-SPECIFIC CONDITIONS, DESIGN AND GOVERNING AUTHORITY APPROVAL.
- OF GRASS IS MAINTAINED.

MAP. AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE. . ALL DENUDED AREAS THAT WILL BE INACTIVE FOR 14 DAYS OR MORE, MUST BE STABILIZED TEMPORARILY WITH THE USE OF FAST-GERMINATING ANNUAL GRASS/GRAIN VARIETIES. STRAW/HAY MULCH. WOOD CELLULOSE FIBERS. TACKIFIERS. NETTING OR BLANKETS AS SHOWN ON SITE MAP. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY STABILIZED AS SHOWN ON THE PLANS. THESE AREAS SHALL BE SEEDED, SODDED, AND/OR VEGETATED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR PLANTING PLAN. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE. ONLY USE INGRESS/EGRESS LOCATIONS AS PROVIDED. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE. ON-SITE & OFFSITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES, STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE

A. THE STORMWATER POLLUTION PREVENTION PLAN IS COMPRISED OF THIS DRAWING

Cottaç
Village
3556 S. SPRINGFIE



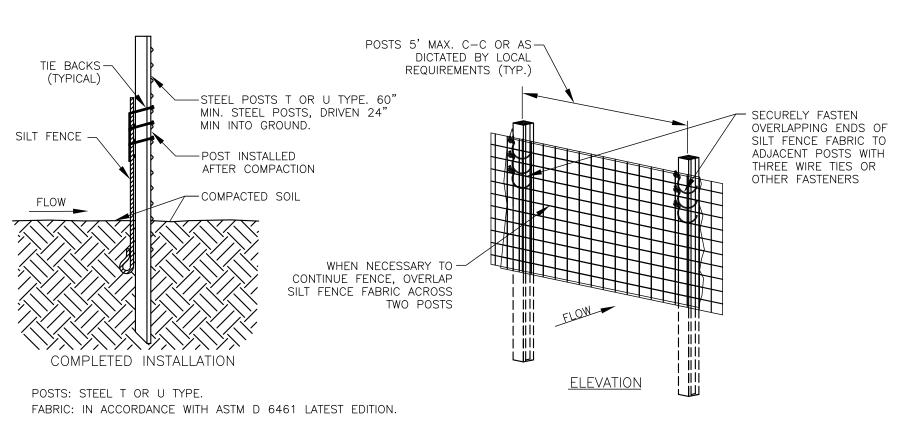
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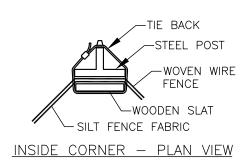
DEVELOPER/OWNER

IMPORTANT: GC MUST SIGN ALL SHEETS AND ANY NEW PLAN SHEETS ISSUED BY THE CEC

COTTAGES AT GENERATION VILLAGE, LP 3556 S. CULPEPPER CIRCLE, SUITE 4 SPRINGFIELD, MO 65804 (417) 882-1701

SITE OPERATOR/GENERAL CONTRACTOR:





- (STATIC SLICING SHALL BE USED TO ANCHOR SILT FENCE FABRIC IN ORDER TO NOT USE THE WOVEN WIRE BACKING.) SILT FENCE SHALL BE PROVIDED AND INSTALLED PER ASTM D-6462-03 LATEST EDITION.
- INSTALL SILT FENCE AT A FAIRLY LEVEL GRADE ALONG THE CONTOUR WITH THE ENDS CURVED UPHILL TO PROVIDE SUFFICIENT UPSTREAM STORAGE VOLUME FOR ANTICIPATED RUNOFF. SPECIAL ATTENTION SHOULD BE PAID TO ENSURE THAT NO UNDERMINING OF SILT FENCE HAS OCCURRED AND THAT NO BYPASS
- IS OCCURRING AT JOINING SECTIONS. INSTALL POSTS AT A MINIMUM DEPTH OF 24" ON THE DOWNSTREAM SIDE OF THE SILT FENCE, AND AS CLOSE AS POSSIBLE TO
- THE FABRIC, ENABLING POSTS TO SUPPORT UPSTREAM WATER PRESSURE ON THE FABRIC. INSTALL POSTS WITH THE NIPPLES FACING AWAY FROM THE SILT FENCE FABRIC
- ATTACH THE FABRIC TO EACH POST WITH THREE TIES, ALL SPACED WITHIN THE TOP 8" OF THE FABRIC. ATTACH EACH TIE
- DIAGONALLY 45 DEGREES THROUGH THE FABRIC, WITH EACH PUNCTURE AT LEAST 1" VERTICALLY APART. ALSO, EACH TIE SHOULD BE POSITIONED TO HANG ON A POST NIPPLE WHEN TIGHTENED TO PREVENT SAGGING.
 WRAP APPROXIMATELY 6" OF FABRIC AROUND THE END POSTS AND SECURE WITH 3 TIES.
- WHEN NECESSARY TO CONTINUE FENCE, OVERLAP SILT FENCE FABRIC ACROSS TWO POSTS. NO MORE THAN 24" OF A 36" FABRIC IS ALLOWED ABOVE GROUND LEVEL. THE INSTALLATION SHOULD BE CHECKED AND CORRECTED FOR ANY DEVIATIONS BEFORE COMPACTION. USE A FLAT-BLADED
- SHOVEL TO TUCK FABRIC DEEPER INTO THE TRENCH IF NECESSARY. 11. COMPACT THE SOIL IMMEDIATELY NEXT TO THE SILT FENCE FABRIC WITH THE FRONT WHEEL OF THE TRACTOR, SKID STEER, OR
- ROLLER EXERTING AT LEAST 60 POUNDS PER SQ. INCH. COMPACT THE UPSTREAM SIDE FIRST. COMPACT EACH SIDE TWICE FOR A 12. WHEN TWO SECTIONS OF SILT FENCE FABRIC ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED A MINIMUM OF 60" ACROSS TWO
- 13. ADD POST CAPS AS NEEDED BASED ON SITE CONDITIONS AND APPLICABLE AGENCY REQUIREMENTS.

MAINTENANCE NOTES

- 1. SILT FENCES SHALL BE INSPECTED ALONG ITS ENTIRETY AND MUST BE CLEANED WHEN SEDIMENT HAS ACCUMULATED TO ONE-THIRD THE HEIGHT OF THE SILT FENCE. MAINTENANCE CLEANOUT MUST BE CONDUCTED REGULARLY TO PREVENT
- ACCUMULATED SEDIMENTS FROM REACHING ON-THIRD THE HEIGHT OF THE SILT FENCE . ALL MATERIAL EXCAVATED FROM BEHIND SILT FENCE SHALL BE STOCKPILED ON AN UPLAND PORTION OF THE SITE IF SUITABLE
- 3. SPECIAL ATTENTION SHOULD BE PAID TO ENSURE THAT NO UNDERMINING OF SILT FENCE HAS OCCURRED AND THAT NO BYPASS IS OCCURRING AT JOINING SECTIONS. IF EXCESS SEDIMENT IS ACCUMULATING IN ANY SECTION OF SILT FENCE, THE CONTRACTOR SHOULD IMPLEMENT ADDITIONAL
- UPSTREAM STABILIZATION MEASURES OR ADDITIONAL BMPS (PENDING CEC APPROVAL) TO PREVENT EXCESSIVE BUILDUP ON SILT
- 5. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED.

	TABLE 1 Tempo	orary Silt Fence I	Material Prope	erty Requirements	3	
		Test Method	Units	Supported⁴ Silt Fence	Unsupported⁴ Silt Fence	Type of Value
Grab Strength		ASTM D 4632	N (lbs)			
	Machine Direction			400 (90)	550 (90)	MARV
	X—Machine Direction			400 (90)	450 (90)	MARV
Permittivity ^B		ASTM D 4491	sec-1	0.05	0.05	MARV
Apparent Opening Size ^B		ASTM D 4751	mm (US Sieve #)	0.60 (30)	0.60 (30)	Max. ARV ^c
Ultraviolet Stability		ASTM D 4355	% Retained Strength	70% after 500 h of exposure	70% after 500 h of exposure	Typical

A Silt fence support shall consist of 14 gage steel wire with a mesh spacing of 150 mm (6 in.) or prefabricated polymer mesh of B These default values are based on empirical evidence with a variety of sediments. For environmentally sensitive areas, a review of previous experience and/or site or regionally specific geotextile tests in accordance with Test Method D 5141 should be performed by the agency to confirm suitability of these requirements. c As measured in accordance with Test Method D 4632. TABLE 1 TAKEN FROM ASTM D 6461-99 (2007)

> NON-WIRE BACKED SLICING METHOD FOR SILT FENCE INSTALLATION

—4'(MINIMUM)—— SWPPP INFORMATION "SWPPP INFORMATION" MUST BE-DISPLAYED PROMINENTLY ACROSS THE TOP OF THE SIGN, AS SHOWN IN THE DETAIL COPY OF NOTICE OF INTENT (NOI) MO DNR PUBLIC JTIFICATIO SIGN HORIZATI SIGN TO BE CONSTRUCTED OF -A RIGID MATERIAL, SUCH AS PLYWOOD OR OUTDOOR SIGN BOARD. SIGN MUST BE CONSTRUCTED IN A MANNER TO PROTECT DOCUMENTS FROM DAMAGE DUE TO WEATHER (WIND, SUN, MOISTURE, ETC.). DETAILED DESCRIPTION OF THE LOCATION OF THE SWPPP DOCUMENTATION ON THE SITE. W W W Ψ V W

- 1. THE SWPPP INFORMATION SIGN MUST BE LOCATED IN A PROMINENT, PUBLICLY ACCESSIBLE LOCATION NEAR THE MAIN ENTRANCE OF THE SITE, SUCH THAT THE DOCUMENTATION CAN BE READ WITHOUT ACCESSING THE JOBSITE BUT NOT OBSTRUCTING VIEWS AS TO CAUSE A TRAFFIC SAFETY HAZARD.
- ALL POSTED DOCUMENTS MUST BE MAINTAINED IN A CLEARLY READABLE CONDITION AT ALL TIMES THROUGHOUT CONSTRUCTION AND UNTIL THE NOTICE-OF-TERMINATION (NOT) IS FILED FOR THE PERMIT. ALL PAGES OF NOTICES OF INTENT AND PERMIT AUTHORIZATIONS MUST BE POSTED. THE CONTRACTOR MAY
- UTILIZE ACCESSIBLE WATERPROOF FOLDERS TO STORE THESE DOCUMENTS IF IT WILL BE DIFFICULT TO POST ALL PAGES INDIVIDUALLY 4. CONTRACTOR SHALL POST OTHER STORMWATER AND/OR EROSION AND SEDIMENT CONTROL RELATED PERMITS ON
- THE SIGN AS REQUIRED BY THE GOVERNING AGENCIES. SUBSEQUENT PERMIT MODIFICATION REQUESTS OR RENEWAL APPLICATIONS AND THEIR ASSOCIATED
- AUTHORIZATIONS OR RESPONSES SHALL BE POSTED ON THE SWPPP SIGN. 6. SIGN SHALL BE LOCATED OUTSIDE OF PUBLIC RIGHT-OF-WAY AND EASEMENTS UNLESS APPROVED BY THE
- 7. CONTRACTOR IS RESPONSIBLE FOR ENSURING STABILITY OF THE SWPPP INFORMATION SIGN.



6" CRUSHED—

GEOTEXTILE FABRIC -

(SEE APPROVED LIST)

GEOTEXTILE FABRIC FOR -

(SEE APPROVED LIST)

DRAINAGE AND FILTRATION

6" MIN. DEPTH — 2"-3" CLEAN STONE

(SEE 02300 SPECIFICATION FOR

COMPACTION REQUIREMENTS)

COMPACTED SUBGRADE

FOR SEPARATION

STONE BASE

EDGE OF EXISTING PAVEMENT

CONSTRUCTION EXIT

SWPPP INFORMATION SIGN BLOCK AND AGGREGATE CURB INLET PROTECTION

SEE SITE MAP FOR LOCATION

2"-3" CRUSHED-

STONE OVERFLOW WEIR

<u>Plan view</u>

(SEE SITE MAPS)

-GEOTEXTILE FABRIC FOR

(SEE APPROVED LIST)

_6" MIN. DEPTH

<u>SECTION A-A</u>

2"-3" CLEAN STONE

DRAINAGE AND FILTRATION

-CONCRETE BLOCKS - WIRE MESH -FILTER FABRIC PER ASTM D 6461 -FILTER FABRIC PER ASTM D 6461 GRATED INLET-— AGGREGATE WIRE MESH-CONCRETE BLOCKS <u>PLAN</u> SEE NOTE 2 RUNOFF GRATED INLET FINISHED GRADE-AGGREGATE -

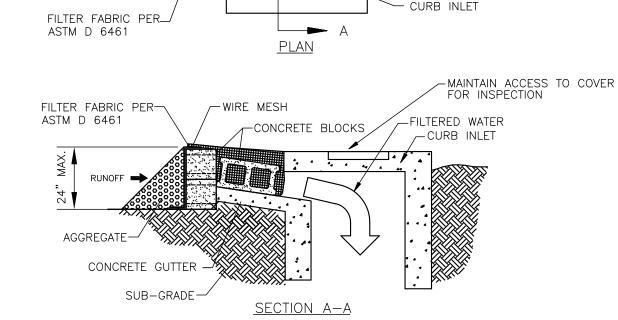
- 1. PLACE CONCRETE BLOCKS IN A SINGLE ROW AROUND PERIMETER OF INLET ON
- THEIR SIDES, WITH ENDS OF ADJACENT BLOCKS ABUTTING. 2. HEIGHT OF BARRIER VARIES. USE STACKS OF 4", 8", OR 12" BLOCKS. MIN. HEIGHT OF BARRIER SHALL BE 12" AND MAX. HEIGHT SHALL BE 24".
- 3. PLACE HARDWARE CLOTH/WIRE MESH W/ MAX. 1/2" OPENINGS OVER VERTICAL FACE OF CONCRETE BLOCKS. 4. THE AGGREGATE SHALL BE 3/4"-2" ANGULAR CLEAN STONE, WHICH WILL SLOW THE
- FLOW OF THE WATER AND ALLOW IT TO FILTER THROUGH AND OVER THE MATERIAL BEFORE ENTERING THE INLET. MAINTENANCE NOTES:

1. INLET PROTECTION DEVICES MUST BE INSPECTED FOR SEDIMENT ACCUMULATION WITHIN THE CATCH BASIN (IF USING INSERT-TYPE DEVICE) OR UPGRADIENT OF THE

- 2. REMOVAL OF SEDIMENT ACCUMULATED IN OR ADJACENT TO A STORM DRAIN INLET MUST BEGIN IMMEDIATELY UPON DISCOVERY, WITH COMPLETION OF THE ACTIVITY OCCURRING NO LATER THAN THE END OF THE FOLLOWING BUSINESS DAY.
- INLET PROTECTION DEVICES SHALL BE INSPECTED FOR UNINTENDED BYPASS OR IMPROPER FLOW-RATES THAT MAY CAUSE DOWNSTREAM FLOODING CONTACT THE CEC FOR ALTERNATE INLET PROTECTION IF THE DESIGNED PROTECTION MAY IMPACT DOWNSTREAM BMPS, ADJACENT SLOPES, ETC., DUE TO
- PONDING ISSUES. ENSURE THAT NO UNDERMINING OF INLET PROTECTION DEVICES HAS OCCURRED. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION.

BLOCK AND AGGREGATE INLET PROTECTION

EROSION CONTROL DETAILS, SHEET 4 OF 4, MUST BE POSTED IN JOB TRAILER.



∕—AGGREGATE

NOTES:

- I. PLACE CONCRETE BLOCKS IN A SINGLE ROW AROUND PERIMETER OF CURB INLET ON THEIR SIDES, WITH ENDS OF ADJACENT BLOCKS ABUTTING.
- P. HEIGHT OF BARRIER VARIES. USE STACKS OF 4", 8", OR 12" BLOCKS. TOP OF BARRIER MUST BE LOWER THAN TOP OF CURB ELEVATIONS ADJACENT TO INLET. MAX. HEIGHT SHALL BE 24". 3. PLACE HARDWARE CLOTH/WIRE MESH W/ MAX. 1/2" OPENINGS OVER VERTICAL FACE OF CONCRETE
- BLOCKS. 4. THE AGGREGATE SHALL BE 3/4" - 2" ANGULAR CLEAN STONE WHICH WILL SLOW THE FLOW OF WATER AND ALLOW IT TO FILTER THROUGH AND OVER THE MATERIAL BEFORE ENTERING THE INLET. 5. IF ROAD OR PARKING AREA IS OPEN TO PUBLIC, VERIFY SUITABILITY OF BMP WITH AGENCIES HAVING
- JURISDICTION AND WITH CEC.

MAINTENANCE NOTES:

- . INLET PROTECTION DEVICES MUST BE INSPECTED FOR SEDIMENT ACCUMULATION WITHIN THE CATCH BASIN (IF USING INSERT-TYPE DEVICE) OR UPGRADIENT OF THE INLET.
- 2. REMOVAL OF SEDIMENT ACCUMULATED IN OR ADJACENT TO A STORM DRAIN INLET MUST BEGIN IMMEDIATELY UPON DISCOVERY, WITH COMPLETION OF THE ACTIVITY OCCURRING NO LATER THAN THE END OF THE
- FOLLOWING BUSINESS DAY. INLET PROTECTION DEVICES SHALL BE INSPECTED FOR UNINTENDED BYPASS OR IMPROPER FLOW-RATES THAT MAY CAUSE DOWNSTREAM FLOODING.
- . CONTACT THE CEC FOR ALTERNATE INLET PROTECTION IF THE DESIGNED PROTECTION MAY IMPACT DOWNSTREAM BMPS, ADJACENT SLOPES, ETC., DUE TO PONDING ISSUES. ENSURE THAT NO UNDERMINING OF
- INIFT PROTECTION DEVICES HAS OCCURRED. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION.

BLOCK AND AGGREGATE CURB INLET PROTECTION

BLOCK AND AGGREGATE CURB INLET PROTECTION

PERFORMANCE STANDARDS:

COMPACTED SUBGRADE

GEOTEXTILE FABRIC

(SEE APPROVED LIST)

FOR SEPARATION

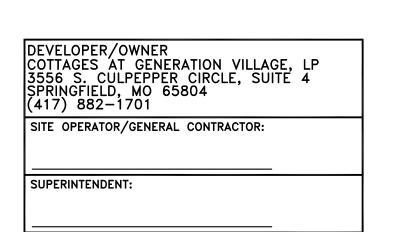
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STONE BASE

- 1. ALL SITE ACCESS MUST BE CONFINED TO THE CONSTRUCTION EXIT(S). BARRICADE TO PREVENT USE OF ANY
- LOCATIONS OTHER THAN THE CONSTRUCTION EXIT(S) WHERE VEHICLES OR EQUIPMENT MAY ACCESS THE SITE. CONTRACTOR TO LOCATE TEMPORARY CONSTRUCTION FENCING, JERSEY BARRIERS, OR BOTH ALONG THE SIDES OF THE CONSTRUCTION EXIT TO PREVENT CONSTRUCTION TRAFFIC FROM SHORT CIRCUITING/BYPASSING THE EXIT.
- PROVIDE SEDIMENT TRAP ON DOWN GRADIENT SIDE (OR BOTH SIDES) AS REQUIRED. SÉDIMENT TRAP SHALL BE LOCATED OUTSIDE OF THE RIGHT-OF-WAY AND AT A MINIMUM SETBÁCK DISTANCE AS REQUIRED PER LOCAL
- 4. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION EXIT(S) IS NOT SUFFICIENT TO PREVENT TRACKING OF DIRT, DUST OR MUD, THEN TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. ALL WASH WATER MUST BE ROUTED TO A SEDIMENT TRAP OR OTHER TREATMENT AREA AND SHALL NOT BE DIRECTLY DISCHARGED OFF-SITE.
- LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE MUST BE INSPECTED FOR EVIDENCE OF SEDIMENT TRACKING BEYOND THE PERMITTED PROJECT AREA. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- ANY SEDIMENT DEPOSITED ON THE ROADWAY SHALL BE SWEPT AS NECESSARY (AND WITHIN THE SAME DAY AS DISCOVERY) AND DISPOSED OF IN AN APPROPRIATE MANNER. SEDIMENT SHALL NOT BE WASHED INTO STORM SEWER
- 7. EXIT(S) SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD BEYOND THE EXIT(S). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION EXIT(S) AS CONDITIONS DEMAND.
- CONTRACTOR SHALL BE PERMITTED TO TURN THE STONE WHEN THE SURFACE BECOMES SMOOTH AND SURFACE VOIDS ARE FILLED TO MAINTAIN EFFECTIVENESS OF CONSTRUCTION EXIT UNTIL SUCH TIME THAT VOIDS BELOW THE SURFACE BECOME FILLED AND THE CONSTRUCTION EXIT IS NO LONGER EFFECTIVE. AT SUCH A TIME THE CONTRACTOR SHALL REMOVE THE INEFFECTIVE STONE AND REPLACE PER DETAIL.
- IF EXIT BMP IS STILL INEFFECTIVE, GC MUST CONTACT THE ENGINEER AND SUBMIT AN RFI AS NECESSARY 10. IF WATER REMAINS IN SEDIMENT TRAP FOR MORE THAN 48 HOURS THE WATER SHALL BE PUMPED OUT THROUGH A FILTER BAG TO ENSURE DESIGN VOLUME IS AVAILABLE FOR FUTURE STORM EVENTS.

MIRAFI HP 370 OR HP 570 BY MIRAFI SF40 OR SF56 BY DUPONT

NOTE TO GC: THE GOAL OF A CONSTRUCTION EXIT AND ASSOCIATED WHEEL WASH AREAS IS TO ELIMINATE TRACK OUT. SIMPLY MANAGING TRACK OUT THROUGH DESIGNATED OR CONTINUAL STREET SWEEPING IS NOT AN ACCEPTABLE PRACTICE. WHILE STREET SWEEPING IS AN ACCEPTABLE PRACTICE FOR REMOVING DUST AND MINIMAL AMOUNTS OF FINE SEDIMENT, OBSERVABLE TRACK OUT FROM THE PROJECT SHALL TRIGGER THE USE OF ADDITIONAL MEASURES (WHEEL WASH) CONSIDERATION OF ALTERNATE EXITS, OR DISCONTINUING VEHICLE TRAFFIC UNTIL CONDITIONS ON-SITE HAVE IMPROVED.



LINQ GTF-200 OR 300 BY LINQ 4. TERRATEX HD BY WEBTEC

IMPORTANT: GC MUST SIGN ALL SHEETS AND ANY NEW PLAN SHEETS ISSUED BY THE CEC.

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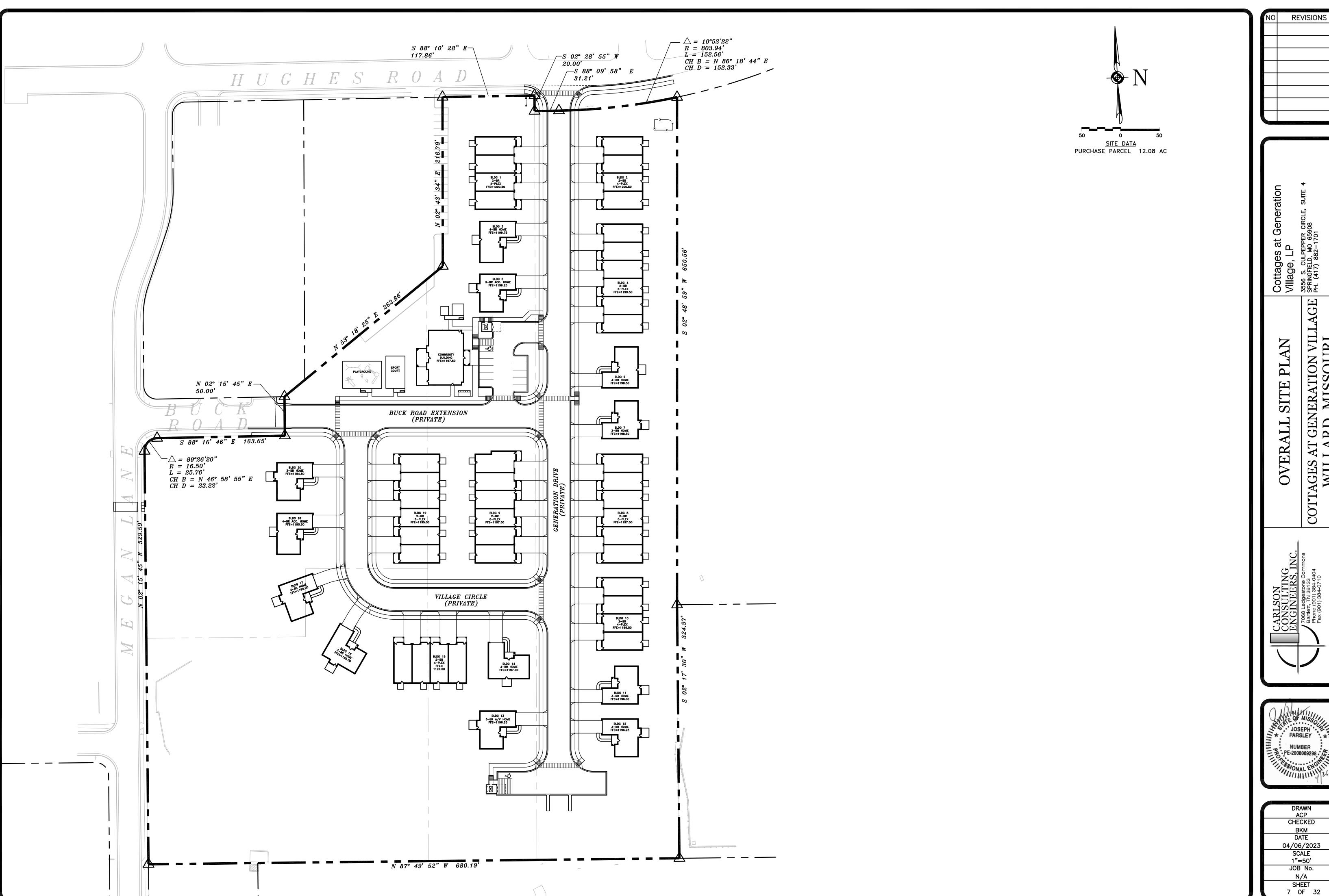
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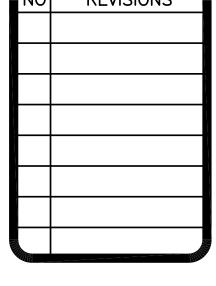
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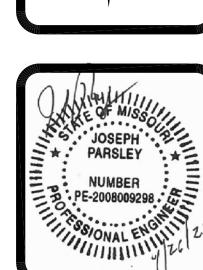
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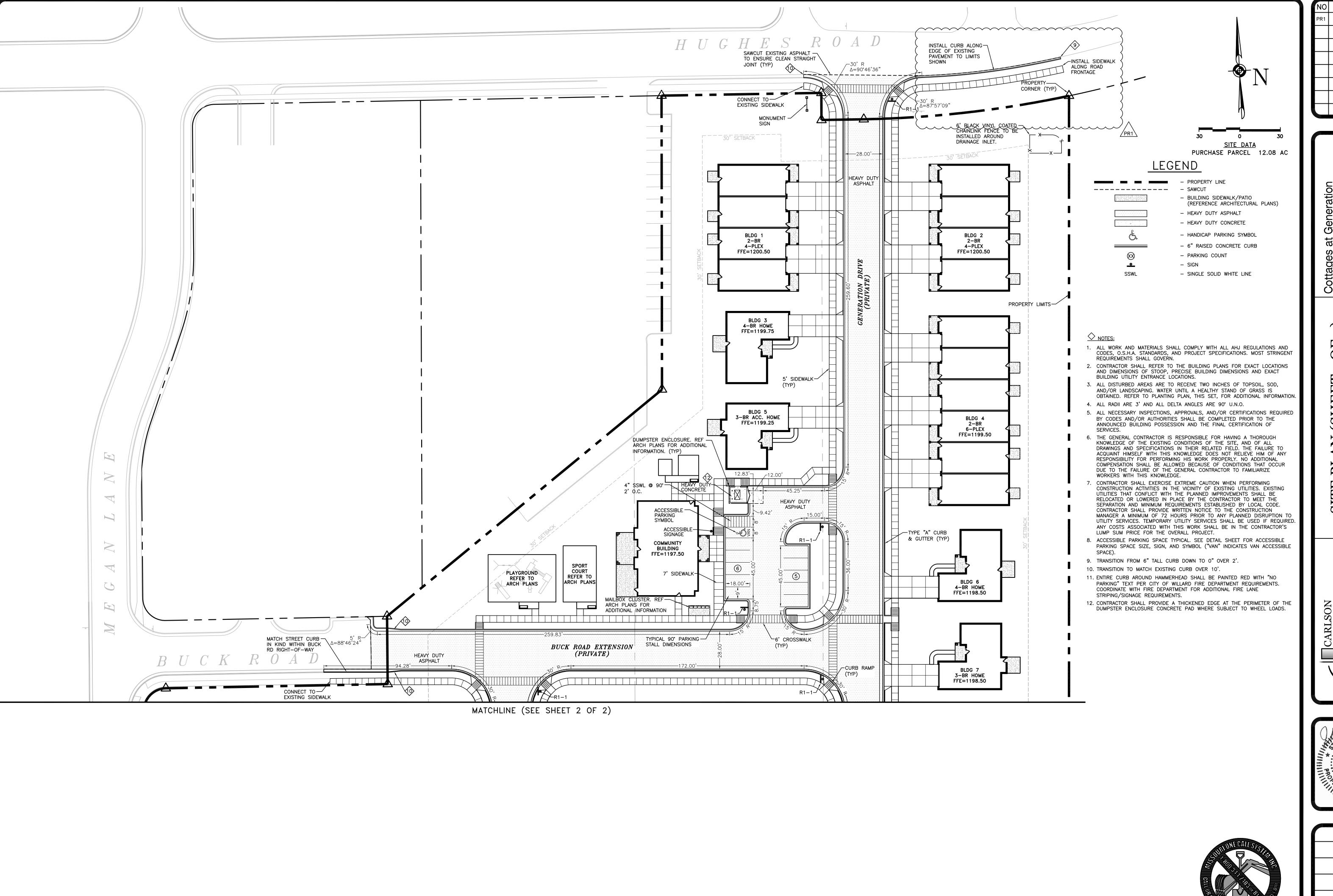
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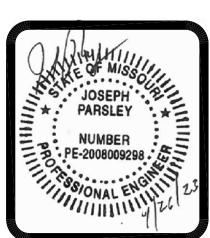


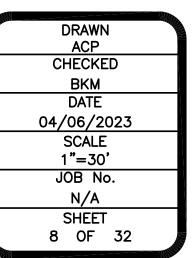
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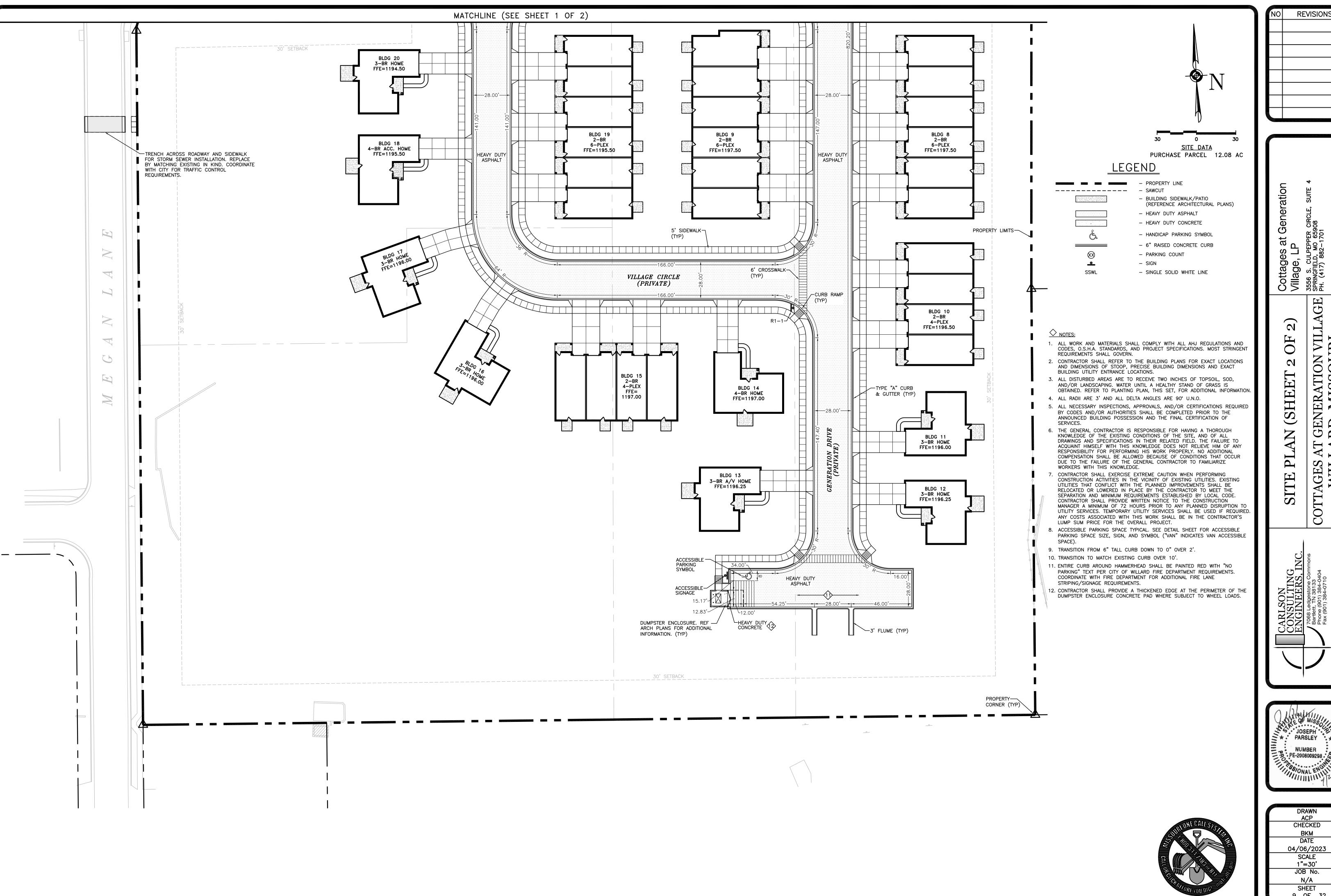


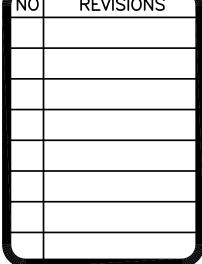
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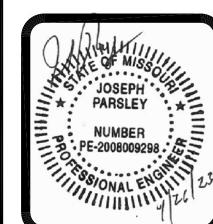




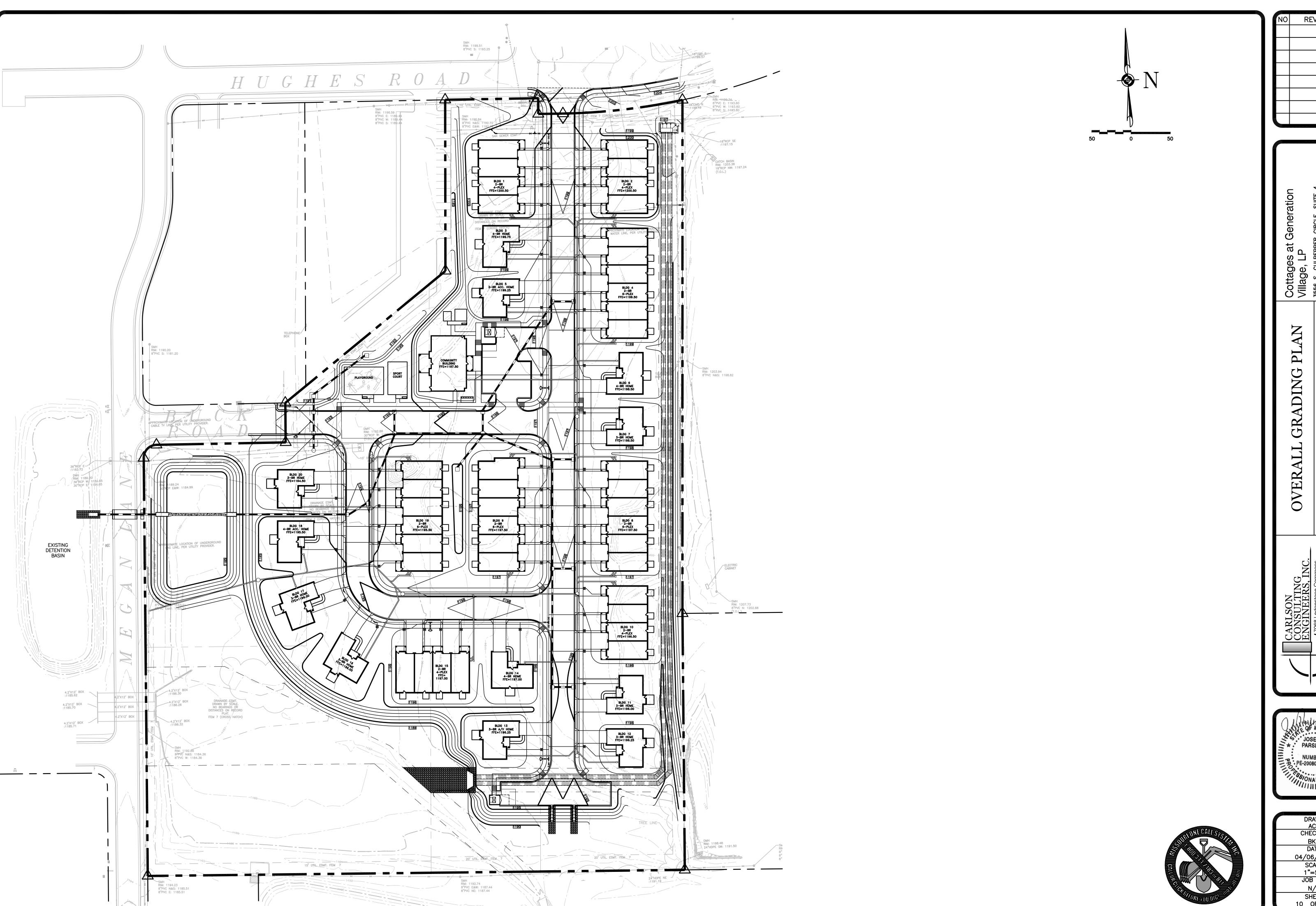


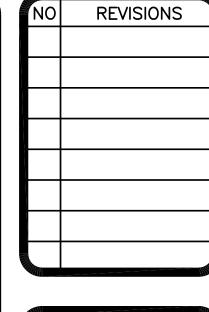


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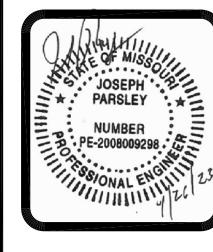


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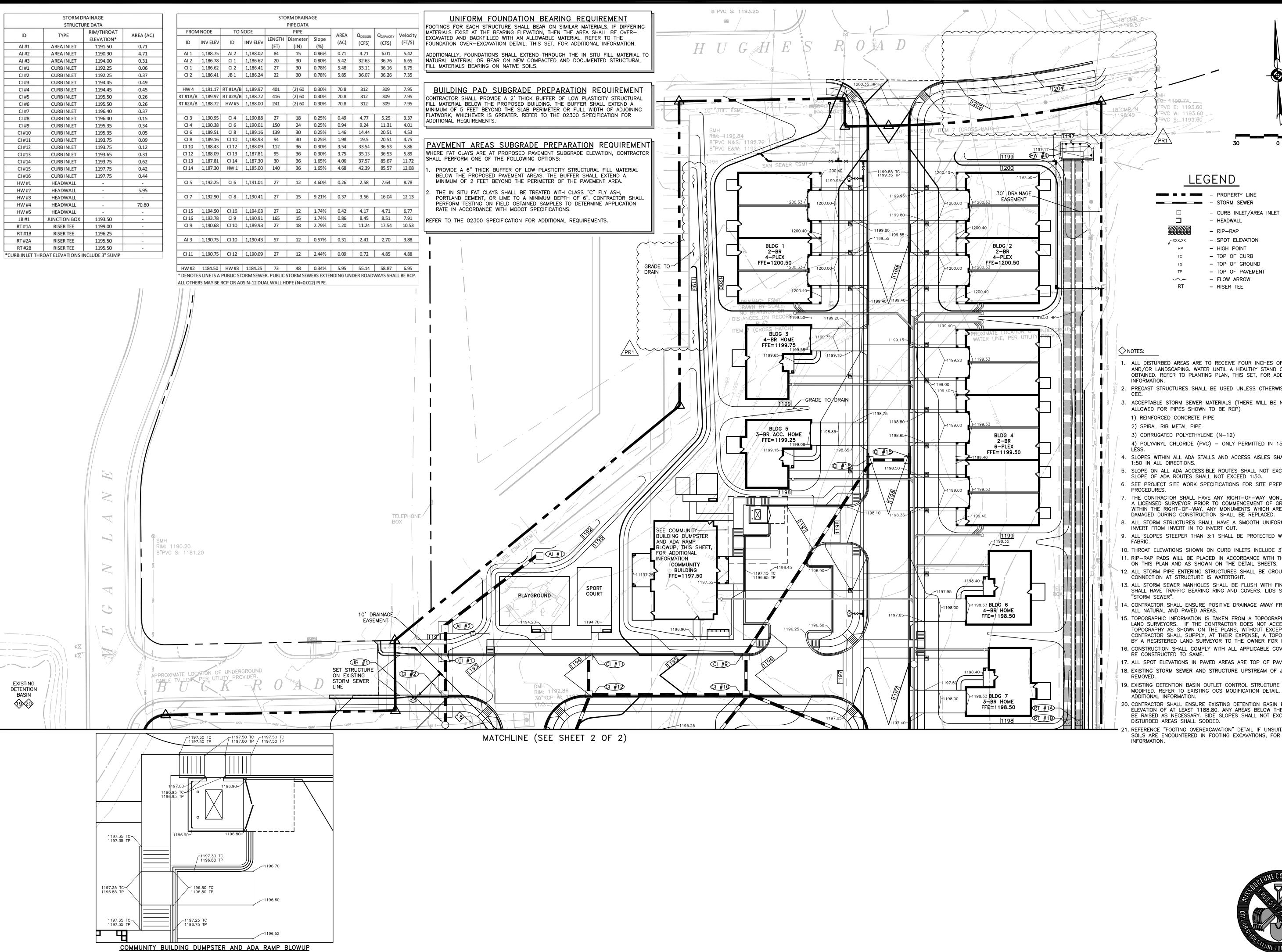




Cottages at Generation
Village, LP
3556 S. CULPEPPER CIRCLE, SUITE 4
SPRINGFIELD, MO 65908
PH. (417) 882-1701



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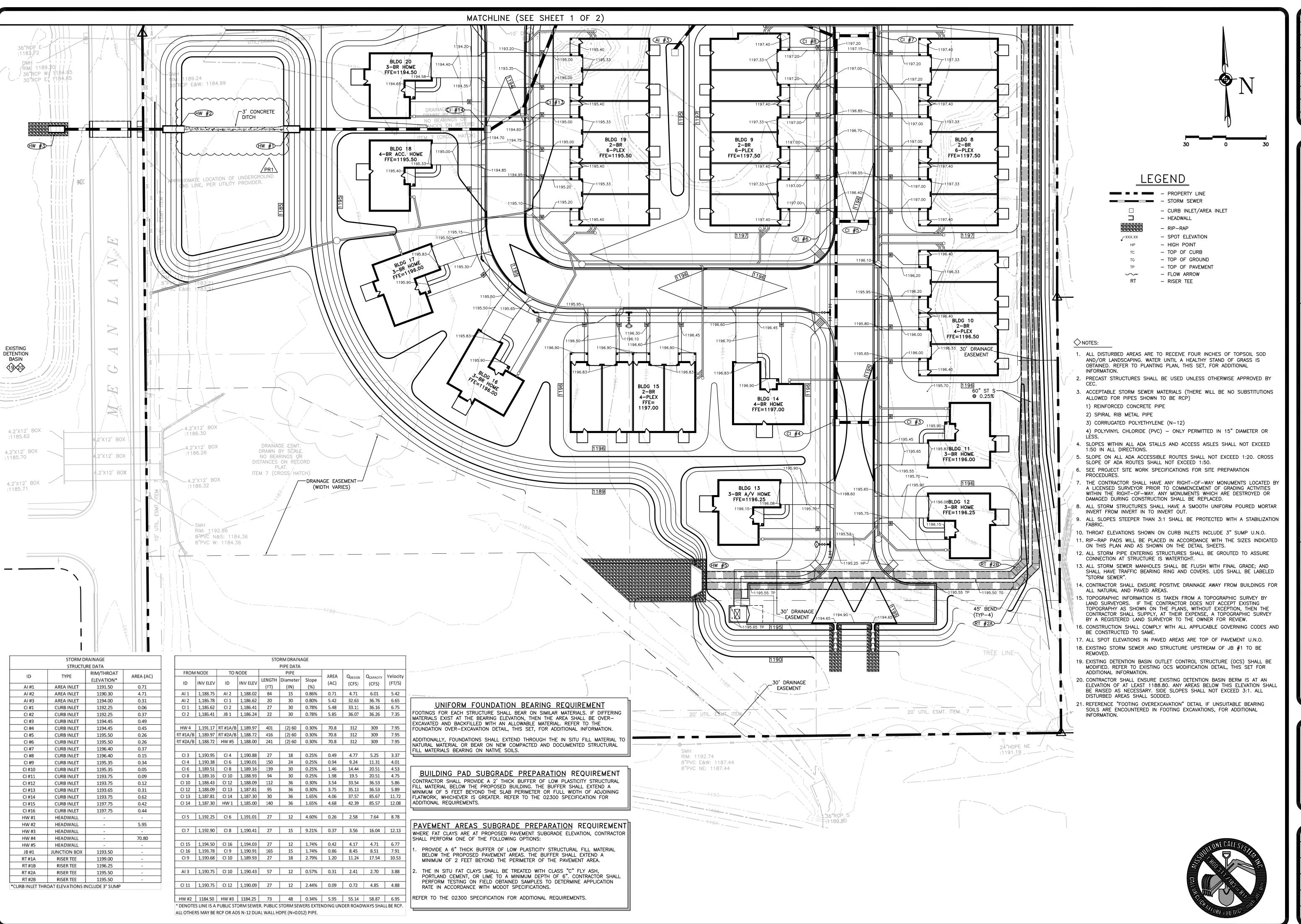
1. ALL DISTURBED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL SOD AND/OR LANDSCAPING. WATER UNTIL A HEALTHY STAND OF GRASS IS OBTAINED. REFER TO PLANTING PLAN, THIS SET, FOR ADDITIONAL

- PRECAST STRUCTURES SHALL BE USED UNLESS OTHERWISE APPROVED BY
- ACCEPTABLE STORM SEWER MATERIALS (THERE WILL BE NO SUBSTITUTIONS ALLOWED FOR PIPES SHOWN TO BE RCP)
- 3) CORRUGATED POLYETHYLENE (N-12)
- 4) POLYVINYL CHLORIDE (PVC) ONLY PERMITTED IN 15" DIAMETER OR
- SLOPES WITHIN ALL ADA STALLS AND ACCESS AISLES SHALL NOT EXCEED
- SLOPE ON ALL ADA ACCESSIBLE ROUTES SHALL NOT EXCEED 1:20. CROSS SLOPE OF ADA ROUTES SHALL NOT EXCEED 1:50.
- SEE PROJECT SITE WORK SPECIFICATIONS FOR SITE PREPARATION
- 7. THE CONTRACTOR SHALL HAVE ANY RIGHT-OF-WAY MONUMENTS LOCATED BY A LICENSED SURVEYOR PRIOR TO COMMENCEMENT OF GRADING ACTIVITIES WITHIN THE RIGHT-OF-WAY. ANY MONUMENTS WHICH ARE DESTROYED OR
- ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR INVERT FROM INVERT IN TO INVERT OUT.
- 9. ALL SLOPES STEEPER THAN 3:1 SHALL BE PROTECTED WITH A STABILIZATION
- 10. THROAT ELEVATIONS SHOWN ON CURB INLETS INCLUDE 3" SUMP U.N.O. 11. RIP-RAP PADS WILL BE PLACED IN ACCORDANCE WITH THE SIZES INDICATED ON THIS PLAN AND AS SHOWN ON THE DETAIL SHEETS.
- 12. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT. 13. ALL STORM SEWER MANHOLES SHALL BE FLUSH WITH FINAL GRADE; AND
- SHALL HAVE TRAFFIC BEARING RING AND COVERS. LIDS SHALL BE LABELED
- 14. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS. 15. TOPOGRAPHIC INFORMATION IS TAKEN FROM A TOPOGRAPHIC SURVEY BY
- LAND SURVEYORS. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OWNER FOR REVIEW. 16. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND
- 17. ALL SPOT ELEVATIONS IN PAVED AREAS ARE TOP OF PAVEMENT U.N.O. 18. EXISTING STORM SEWER AND STRUCTURE UPSTREAM OF JB #1 TO BE
- 19. EXISTING DETENTION BASIN OUTLET CONTROL STRUCTURE (OCS) SHALL BE MODIFIED. REFER TO EXISTING OCS MODIFICATION DETAIL, THIS SET FOR
- 20. CONTRACTOR SHALL ENSURE EXISTING DETENTION BASIN BERM IS AT AN ELEVATION OF AT LEAST 1188.80. ANY AREAS BELOW THIS ELEVATION SHALL BE RAISED AS NECESSARY. SIDE SLOPES SHALL NOT EXCEED 3:1. ALL
- REFERENCE "FOOTING OVEREXCAVATION" DETAIL IF UNSUITABLE BEARING SOILS ARE ENCOUNTERED IN FOOTING EXCAVATIONS, FOR ADDITIONAL



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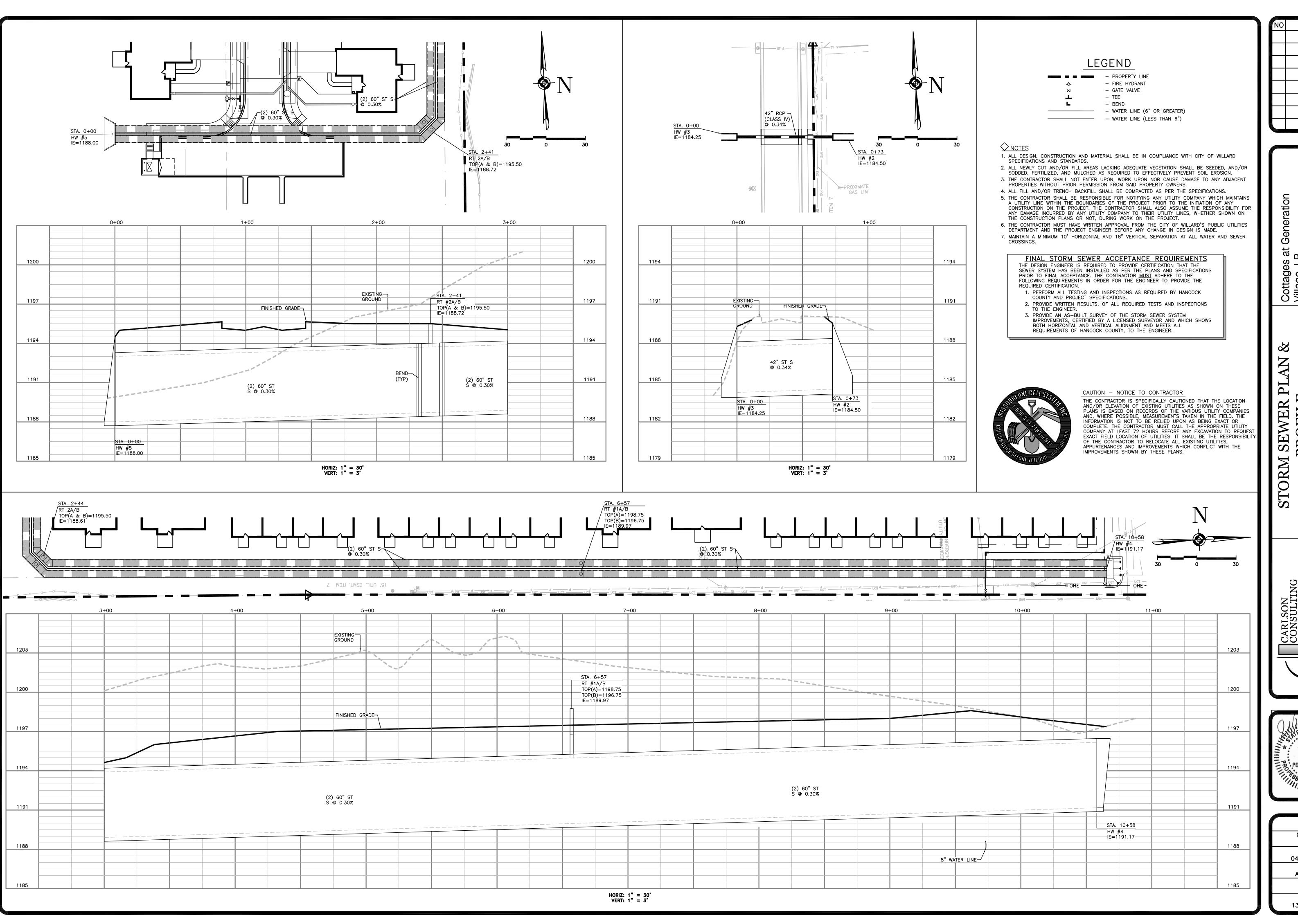
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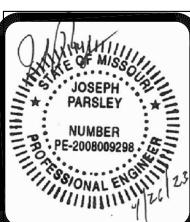
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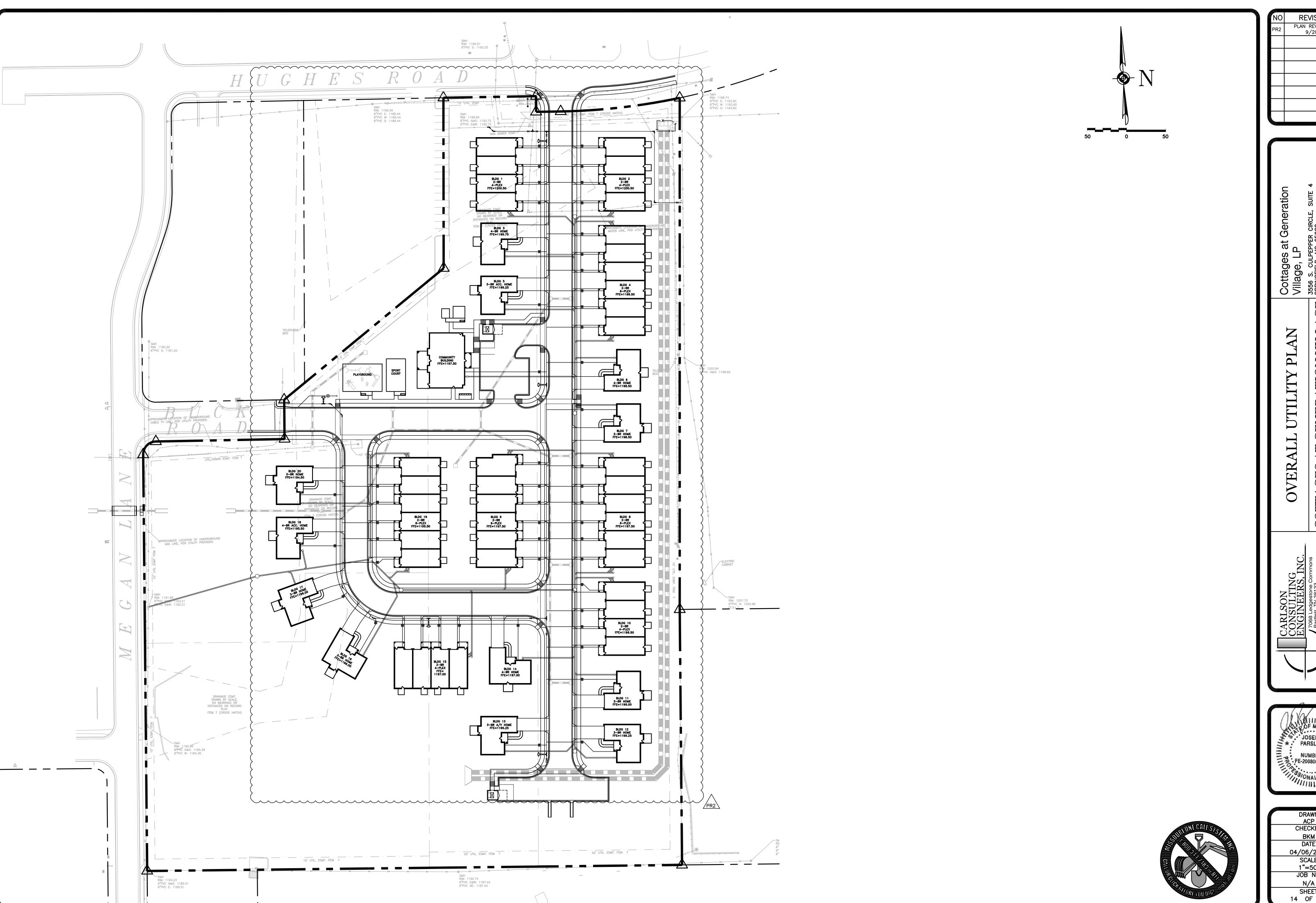
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Cottages at (Village, LP 3556 S. CULPEPPER SPRINGFIELD, MO 65 PH. (417) 882-170

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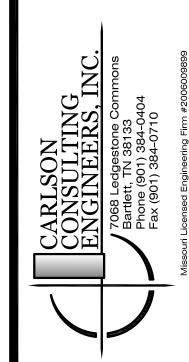


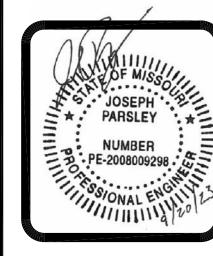
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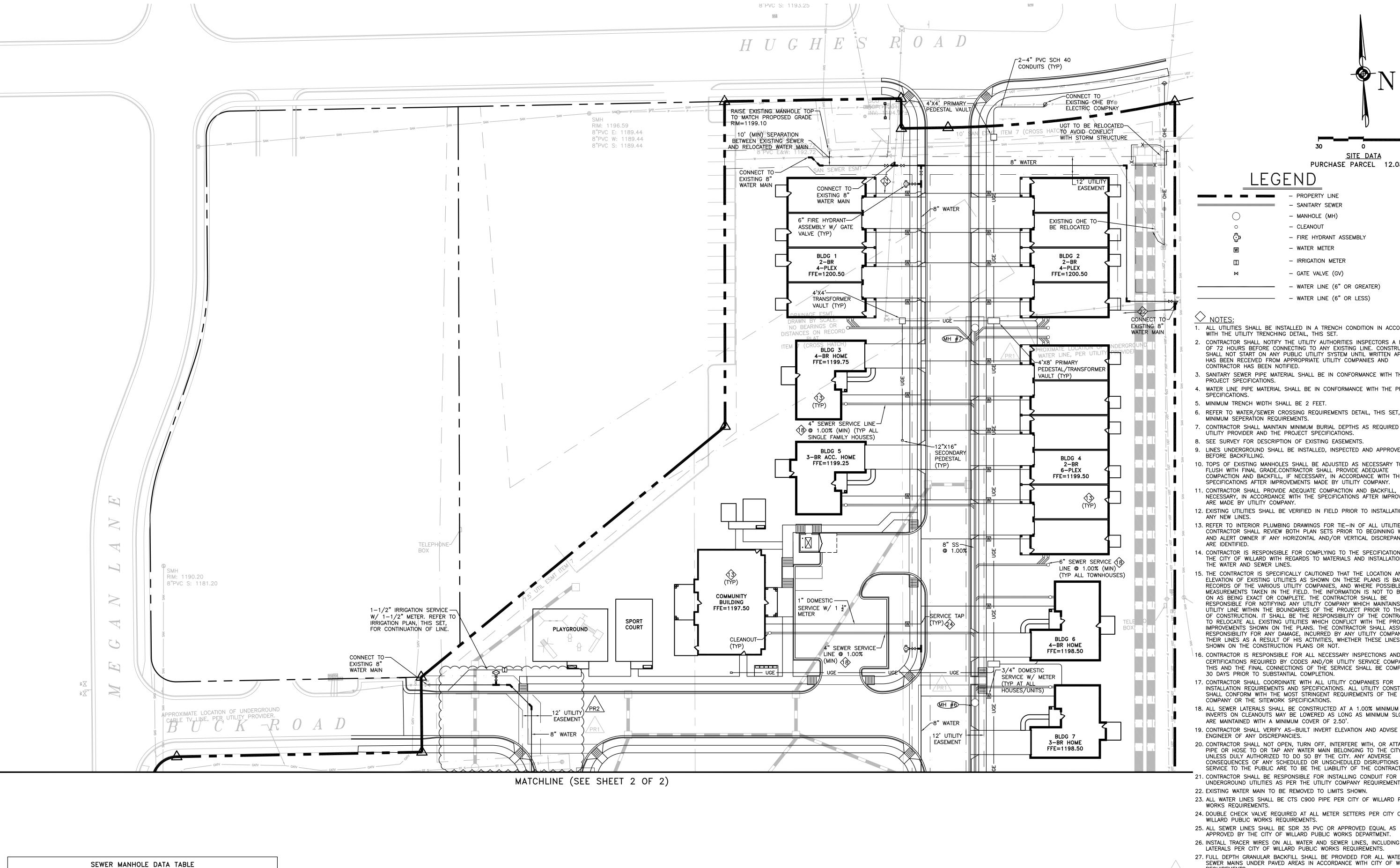
PLAN REVISION #2 9/20/23

Cottages at Generation
Village, LP
3556 S. CULPEPPER CIRCLE, SUITE 4
SPRINGFIELD, MO 65908
PH. (417) 882-1701





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MH #2 (DROP MH) MH #3 RIM=1195.00 RIM=1195.50

IMMEDIATELY UPON AWARD OF PROJECT, CONTRACTOR SHALL CONTACT THE

UTILITY COMPANIES TO PROVIDE ADEQUATE LEAD TIME AND TO COORDINATE THE

IE(8" OUT)=1185.90

IE(8" OUT)=1191.39

RIM=1197.50

| IE(8" OUT)=1189.96 | IE(8" IN)=1191.49

INSTALLATION OF THE RESPECTIVE UTILITIES.

IE(8" IN-SE)=1187.90 | IIE(8" IN)=1188.24

| IE(8" OUT)=1185.22 | IE(8" IN-N)=1186.00 | IE(8" OUT)=1188.14 | IE(8" OUT)=1189.04

RIM=1199.20

RIM=1196.05

RIM=1194.00

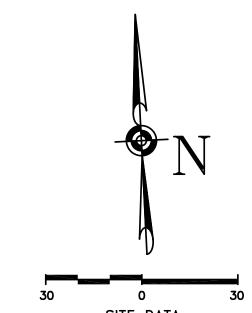
IE(8" OUT)=1194.00 | IE(8" OUT)=1186.52

IE(8" IN)=1189.14

RIM=1194.50

RIM=1195.75

IE(8" IN)=1185.32



SITE DATA PURCHASE PARCEL 12.08 AC

LEGEND

 PROPERTY LINE
 SANITARY SEWER
- MANHOLE (MH)
- CLEANOUT
- FIRE HYDRANT A

ASSEMBLY WATER METER IRRIGATION METER

GATE VALVE (GV)

- WATER LINE (6" OR GREATER)

- WATER LINE (6" OR LESS)

ALL UTILITIES SHALL BE INSTALLED IN A TRENCH CONDITION IN ACCORDANCE WITH THE UTILITY TRENCHING DETAIL, THIS SET. CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS A MINIMUM OF 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE. CONSTRUCTION SHALL NOT START ON ANY PUBLIC UTILITY SYSTEM UNTIL WRITTEN APPROVAL

- 3. SANITARY SEWER PIPE MATERIAL SHALL BE IN CONFORMANCE WITH THE PROJECT SPECIFICATIONS.
- WATER LINE PIPE MATERIAL SHALL BE IN CONFORMANCE WITH THE PROJECT SPECIFICATIONS.
- 5. MINIMUM TRENCH WIDTH SHALL BE 2 FEET.
- 6. REFER TO WATER/SEWER CROSSING REQUIREMENTS DETAIL, THIS SET, FOR MINIMUM SEPERATION REQUIREMENTS.
- 7. CONTRACTOR SHALL MAINTAIN MINIMUM BURIAL DEPTHS AS REQUIRED BY THE UTILITY PROVIDER AND THE PROJECT SPECIFICATIONS.
- 8. SEE SURVEY FOR DESCRIPTION OF EXISTING EASEMENTS.
- 9. LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING. 10. TOPS OF EXISTING MANHOLES SHALL BE ADJUSTED AS NECESSARY TO BE
- FLUSH WITH FINAL GRADE.CONTRACTOR SHALL PROVIDE ADEQUATE COMPACTION AND BACKFILL, IF NECESSARY, IN ACCORDANCE WITH THE SPECIFICATIONS AFTER IMPROVEMENTS MADE BY UTILITY COMPANY.
- 11. CONTRACTOR SHALL PROVIDE ADEQUATE COMPACTION AND BACKFILL, IF NECESSARY, IN ACCORDANCE WITH THE SPECIFICATIONS AFTER IMPROVEMENTS ARE MADE BY UTILITY COMPANY.
- 12. EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF
- 13. REFER TO INTERIOR PLUMBING DRAWINGS FOR TIE-IN OF ALL UTILITIES. CONTRACTOR SHALL REVIEW BOTH PLAN SETS PRIOR TO BEGINNING WORK AND ALERT OWNER IF ANY HORIZONTAL AND/OR VERTICAL DISCREPANCIES ARE IDENTIFIED.
- 14. CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE CITY OF WILLARD WITH REGARDS TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
- 15. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ANY UTILITY COMPANY WHICH MAINTAINS A UTILITY LINE WITHIN THE BOUNDARIES OF THE PROJECT PRIOR TO THE START OF CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL ASSUME THE RESPONSIBILITY FOR ANY DAMAGE, INCURRED BY ANY UTILITY COMPANY, TO THEIR LINES AS A RESULT OF HIS ACTIVITIES, WHETHER THESE LINES ARE
- 16. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES. THIS AND THE FINAL CONNECTIONS OF THE SERVICE SHALL BE COMPLETED 30 DAYS PRIOR TO SUBSTANTIAL COMPLETION.
- INSTALLATION REQUIREMENTS AND SPECIFICATIONS, ALL UTILITY CONSTRUCTION SHALL CONFORM WITH THE MOST STRINGENT REQUIREMENTS OF THE UTILITY COMPANY OR THE SITEWORK SPECIFICATIONS.
- 18. ALL SEWER LATERALS SHALL BE CONSTRUCTED AT A 1.00% MINIMUM SLOPE. INVERTS ON CLEANOUTS MAY BE LOWERED AS LONG AS MINIMUM SLOPES ARE MAINTAINED WITH A MINIMUM COVER OF 2.50'.
- 19. CONTRACTOR SHALL VERIFY AS-BUILT INVERT ELEVATION AND ADVISE ENGINEER OF ANY DISCREPANCIES.
- 20. CONTRACTOR SHALL NOT OPEN, TURN OFF, INTERFERE WITH, OR ATTACH ANY PIPE OR HOSE TO OR TAP ANY WATER MAIN BELONGING TO THE CITY UNLESS DULY AUTHORIZED TO DO SO BY THE CITY. ANY ADVERSE CONSEQUENCES OF ANY SCHEDULED OR UNSCHEDULED DISRUPTIONS OF SERVICE TO THE PUBLIC ARE TO BE THE LIABILITY OF THE CONTRACTOR.
- UNDERGROUND UTILITIES AS PER THE UTILITY COMPANY REQUIREMENTS. 22. EXISTING WATER MAIN TO BE REMOVED TO LIMITS SHOWN. 23. ALL WATER LINES SHALL BE CTS C900 PIPE PER CITY OF WILLARD PUBLIC
- WORKS REQUIREMENTS.
- 24. DOUBLE CHECK VALVE REQUIRED AT ALL METER SETTERS PER CITY OF WILLARD PUBLIC WORKS REQUIREMENTS.
- 25. ALL SEWER LINES SHALL BE SDR 35 PVC OR APPROVED EQUAL AS APPROVED BY THE CITY OF WILLARD PUBLIC WORKS DEPARTMENT.
- 26. INSTALL TRACER WIRES ON ALL WATER AND SEWER LINES, INCLUDING LATERALS PER CITY OF WILLARD PUBLIC WORKS REQUIREMENTS.
- 27. FULL DEPTH GRANULAR BACKFILL SHALL BE PROVIDED FOR ALL WATER AND SEWER MAINS UNDER PAVED AREAS IN ACCORDANCE WITH CITY OF WILLARD REQUIREMENTS.

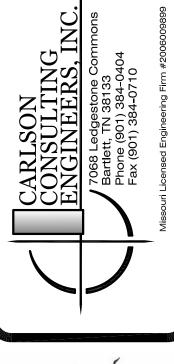




REVISIONS PLAN REVISION # 4/26/23 PLAN REVISION #2 9/20/23

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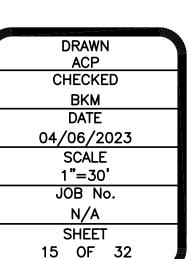
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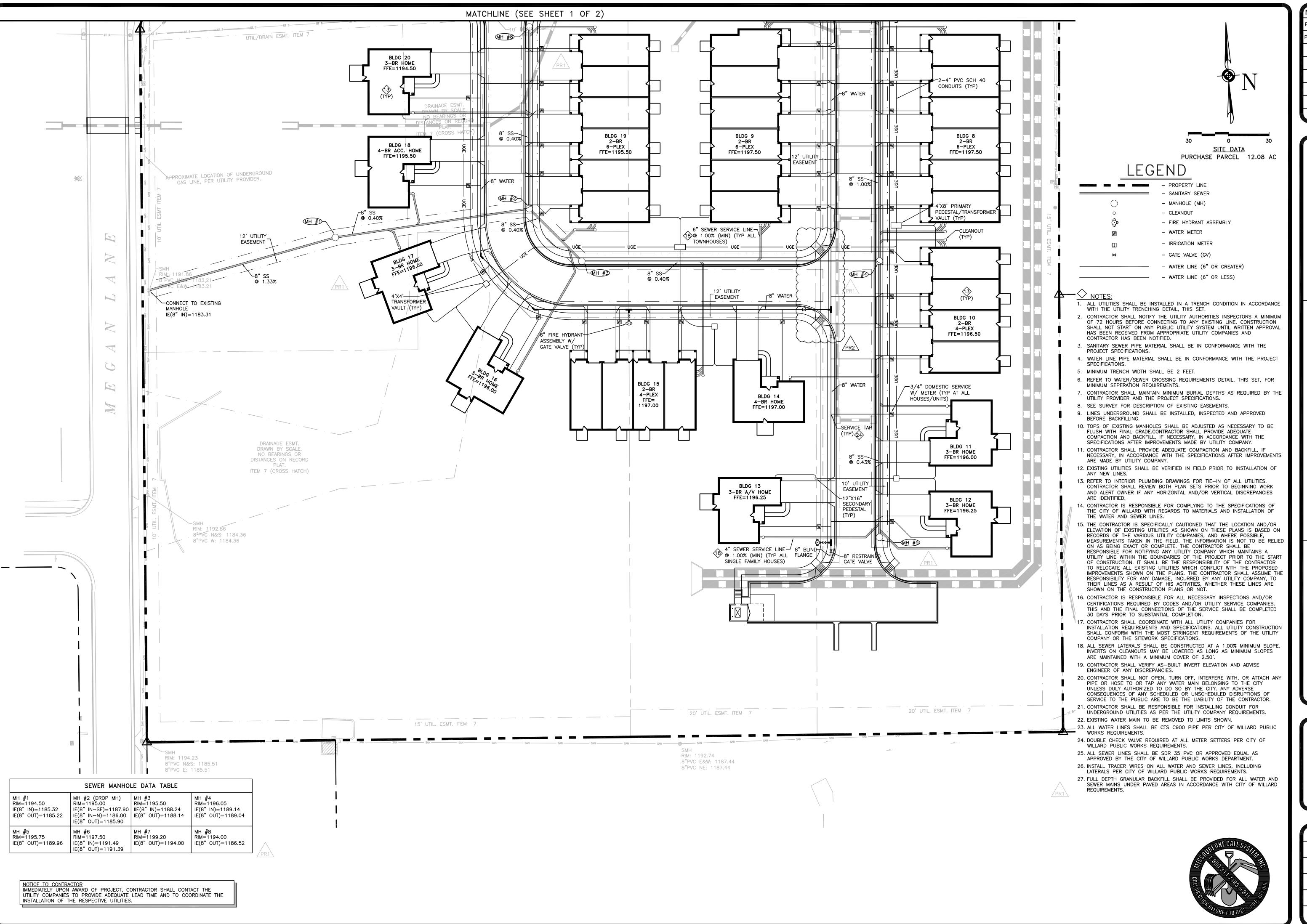
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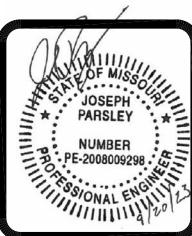
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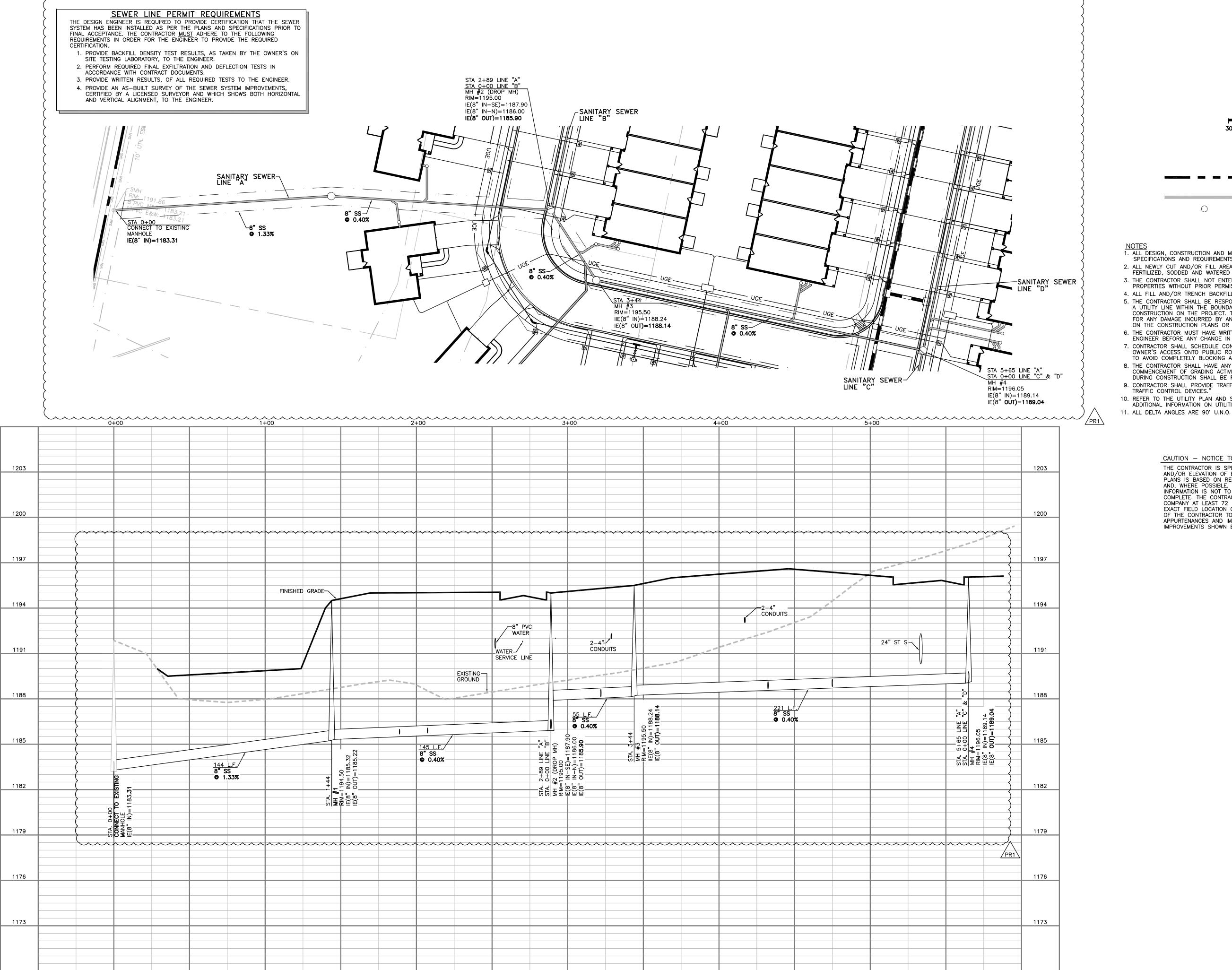


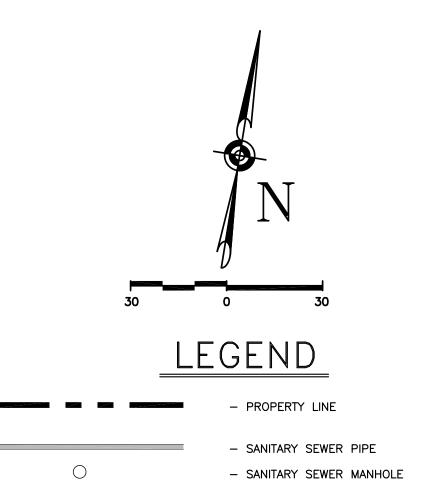
4/26/23 PLAN REVISION #2 9/20/23

Cottage, Village, 3556 S. CUI SPRINGFIELD, PH. (417) B. S



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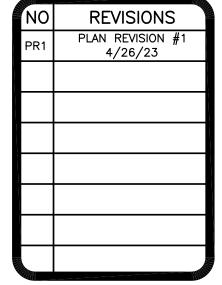


1. ALL DESIGN, CONSTRUCTION AND MATERIAL SHALL BE IN COMPLIANCE WITH THE CITY OF VERSAILLES

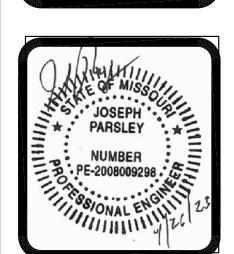
- SPECIFICATIONS AND REQUIREMENTS 2. ALL NEWLY CUT AND/OR FILL AREAS WITHIN THE ROW LACKING ADEQUATE VEGETATION SHALL BE FERTILIZED, SODDED AND WATERED AS REQUIRED TO EFFECTIVELY PREVENT SOIL EROSION.
- 3. THE CONTRACTOR SHALL NOT ENTER UPON, WORK UPON NOR CAUSE DAMAGE TO ANY ADJACENT PROPERTIES WITHOUT PRIOR PERMISSION FROM SAID PROPERTY OWNER(S).
- 4. ALL FILL AND/OR TRENCH BACKFILL SHALL BE COMPACTED AS PER THE PROJECT SPECIFICATIONS. 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ANY UTILITY COMPANY WHICH MAINTAINS A UTILITY LINE WITHIN THE BOUNDARIES OF THE PROJECT PRIOR TO THE INITIATION OF ANY CONSTRUCTION ON THE PROJECT. THE CONTRACTOR SHALL ALSO ASSUME THE RESPONSIBILITY FOR ANY DAMAGE INCURRED BY ANY UTILITY COMPANY TO THEIR UTILITY LINES, WHETHER SHOWN ON THE CONSTRUCTION PLANS OR NOT, DURING WORK ON THE PROJECT.
- 6. THE CONTRACTOR MUST HAVE WRITTEN APPROVAL FROM THE CITY ENGINEER AND THE PROJECT ENGINEER BEFORE ANY CHANGE IN DESIGN IS MADE.
- 7. CONTRACTOR SHALL SCHEDULE CONSTRUCTION ACTIVITIES WHICH AFFECT NEIGHBORING PROPERTY OWNER'S ACCESS ONTO PUBLIC ROADWAYS WITH PROPERTY OWNER. ALL EFFORTS SHOULD BE MADE TO AVOID COMPLETELY BLOCKING ACCESS TO OR FROM DRIVE AT ANY TIME.
- 8. THE CONTRACTOR SHALL HAVE ANY ROW MONUMENTS LOCATED BY A LICENSED SURVEYOR PRIOR TO COMMENCEMENT OF GRADING ACTIVITIES IN THE ROW. ANY MONUMENTS WHICH ARE DESTROYED DURING CONSTRUCTION SHALL BE REPLACED BY SAME.
- 9. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."
- 10. REFER TO THE UTILITY PLAN AND SANITARY SEWER PLAN AND PROFILE SHEETS, THIS SET, FOR ADDITIONAL INFORMATION ON UTILITIES WITHIN THE RIGHT-OF-WAY.

CAUTION - NOTICE TO CONTRACTOR

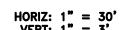
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES, APPURTENANCES AND IMPROVEMENTS WHICH CONFLICT WITH THE IMPROVEMENTS SHOWN BY THESE PLANS.



Cottages at (Village, LP 3556 S. CULPEPPER SPRINGFIELD, MO 65 PH. (417) 882-170



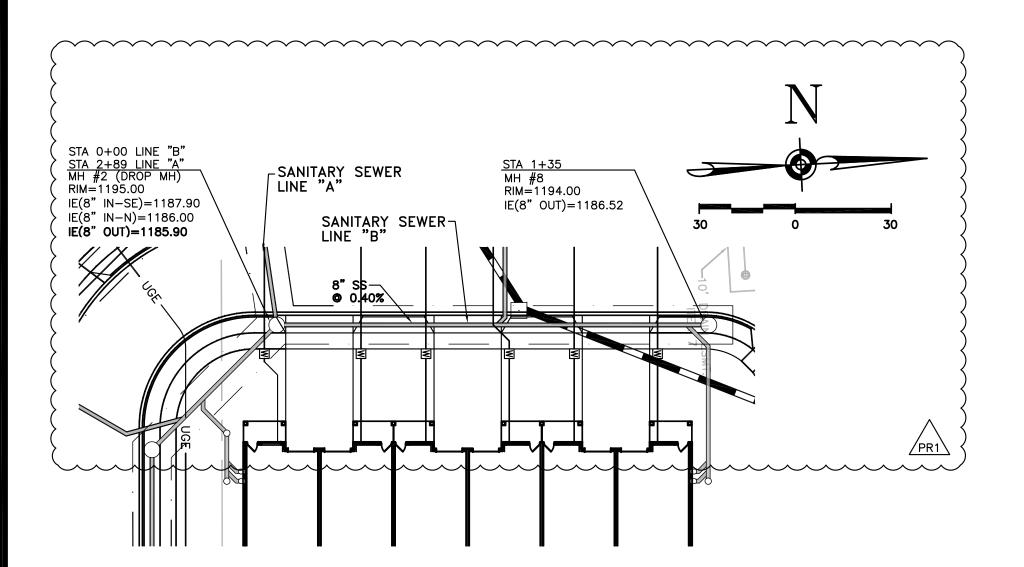
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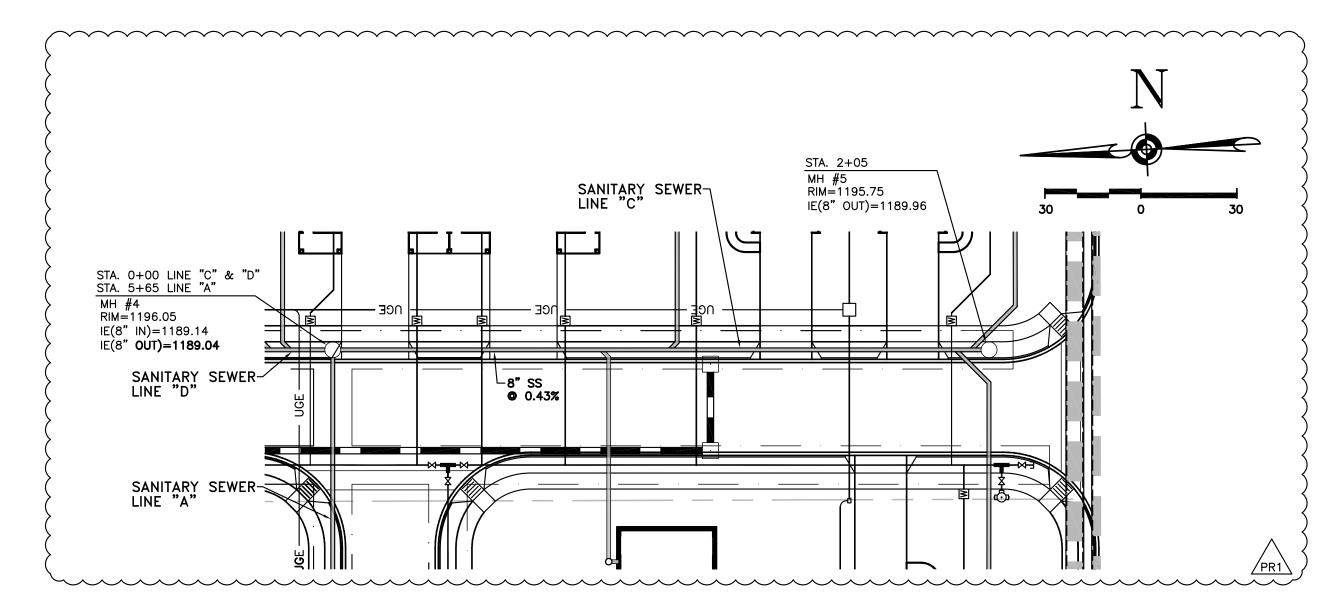


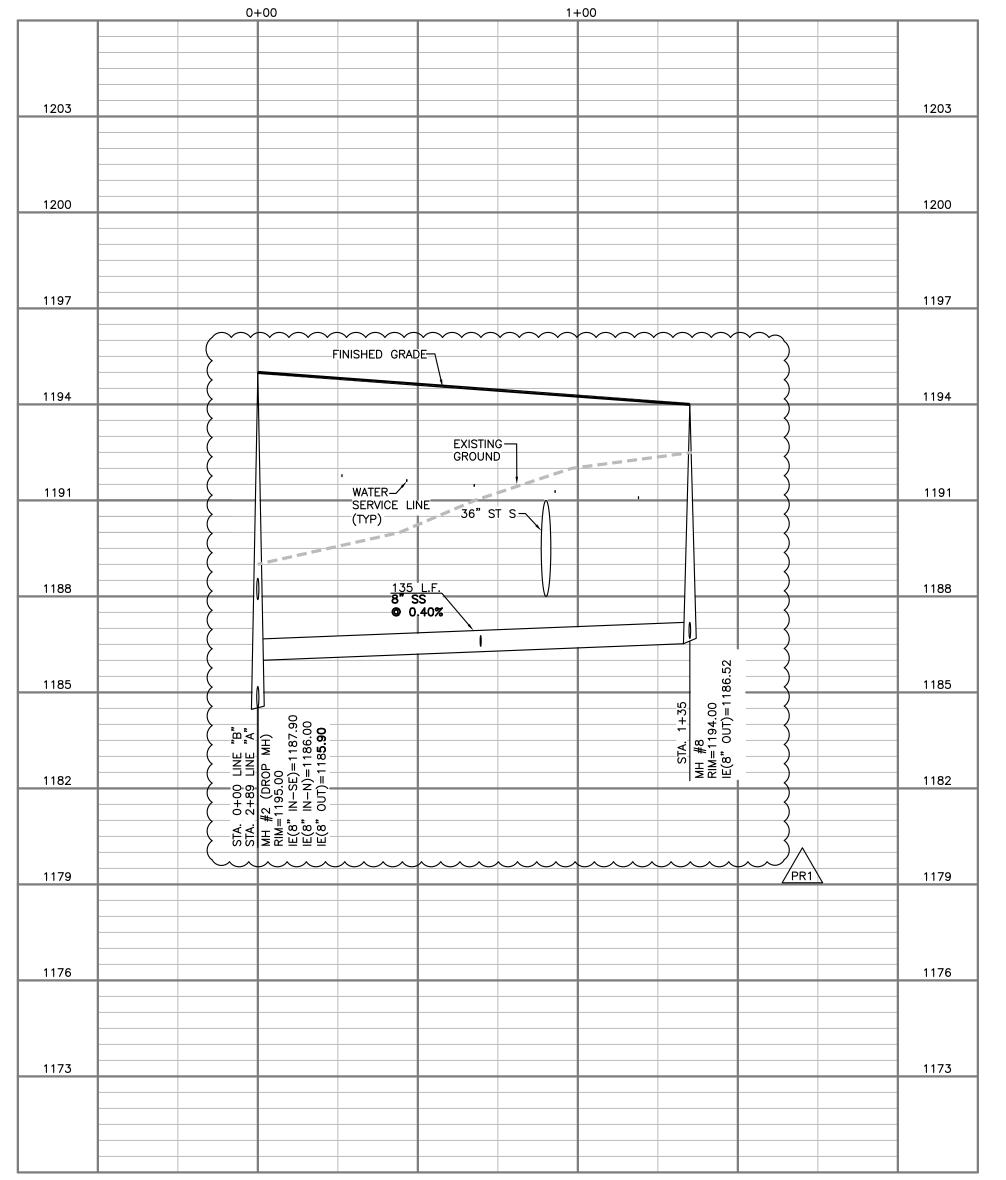
SEWER LINE PERMIT REQUIREMENTS

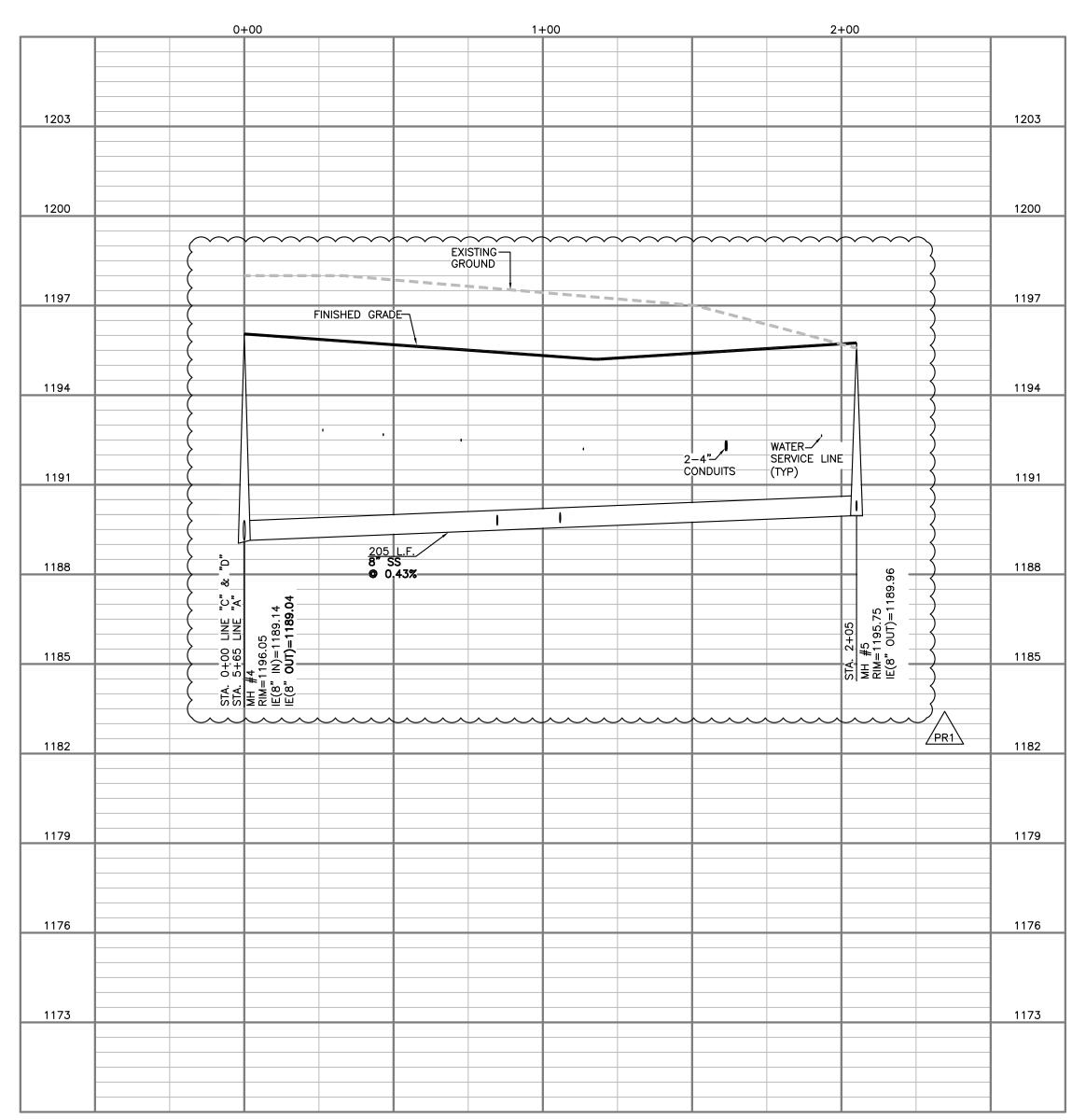
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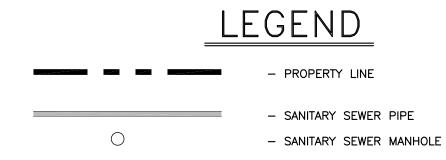
- PROVIDE BACKFILL DENSITY TEST RESULTS, AS TAKEN BY THE OWNER'S ON SITE TESTING LABORATORY, TO THE ENGINEER.
- PERFORM REQUIRED FINAL EXFILTRATION AND DEFLECTION TESTS IN ACCORDANCE WITH CONTRACT DOCUMENTS.
- 3. PROVIDE WRITTEN RESULTS, OF ALL REQUIRED TESTS TO THE ENGINEER.
- 4. PROVIDE AN AS-BUILT SURVEY OF THE SEWER SYSTEM IMPROVEMENTS, CERTIFIED BY A LICENSED SURVEYOR AND WHICH SHOWS BOTH HORIZONTAL AND VERTICAL ALIGNMENT, TO THE ENGINEER.











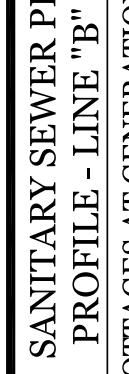
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CAUTION - NOTICE TO CONTRACTOR

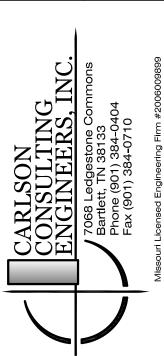
11. ALL DELTA ANGLES ARE 90° U.N.O.

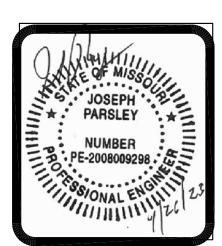
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Cottages at (Village, LP 3556 S. CULPEPPER SPRINGFIELD, MO 65 PH. (417) 882-170

PLAN REVISION #1 4/26/23





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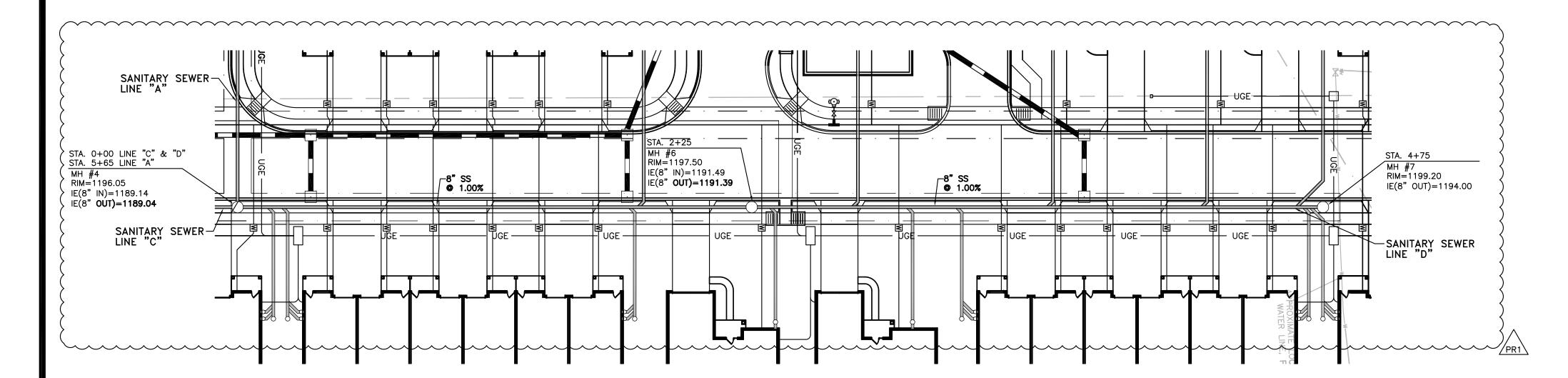
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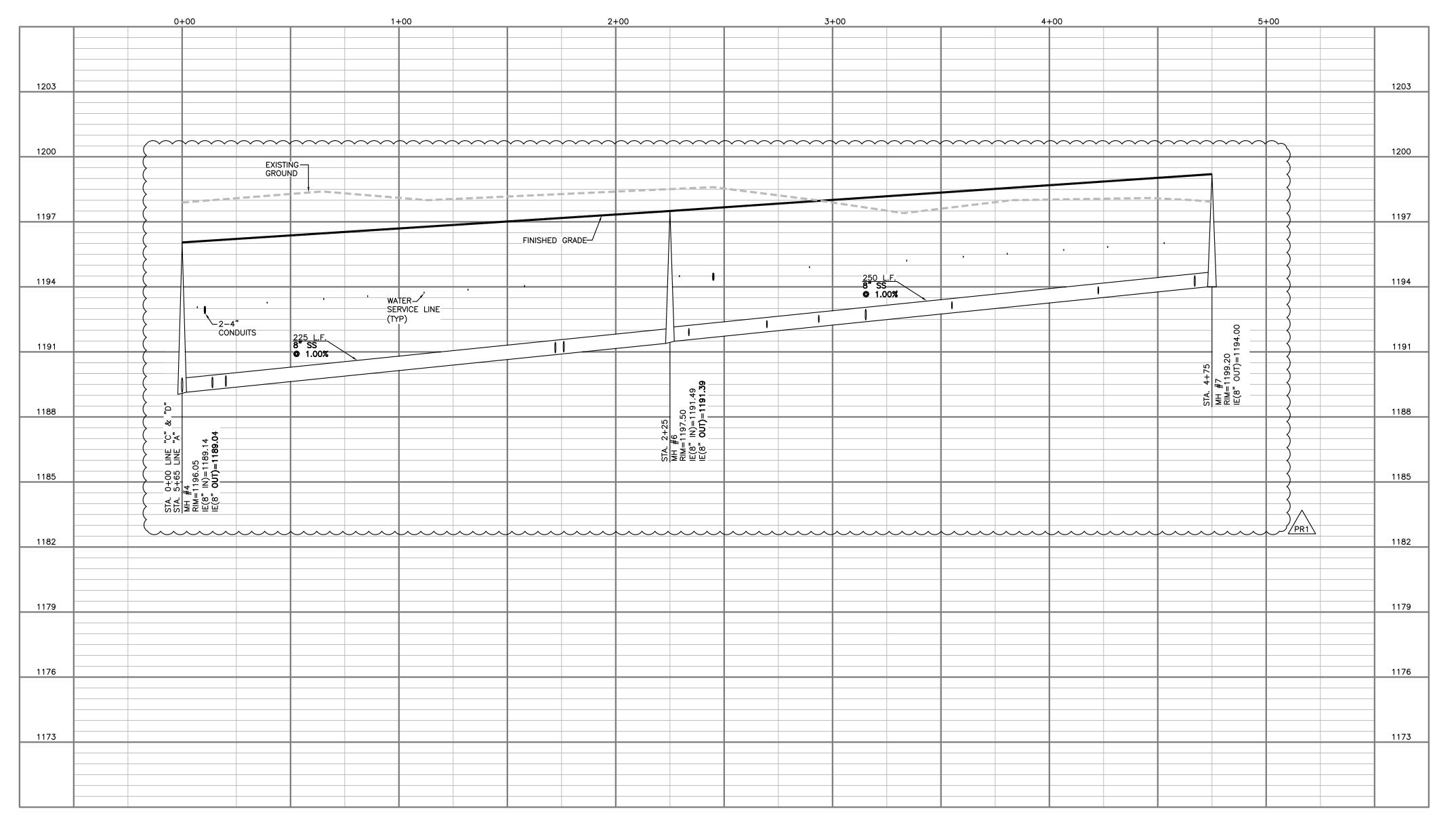
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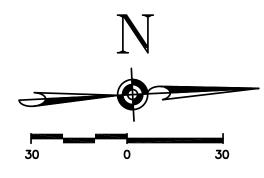
SEWER LINE PERMIT REQUIREMENTS

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LEGEND PROPERTY LINE - SANITARY SEWER PIPE - SANITARY SEWER MANHOLE

NOTES

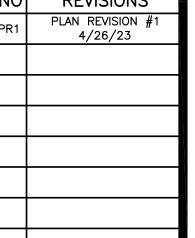
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CAUTION - NOTICE TO CONTRACTOR

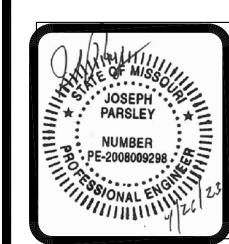
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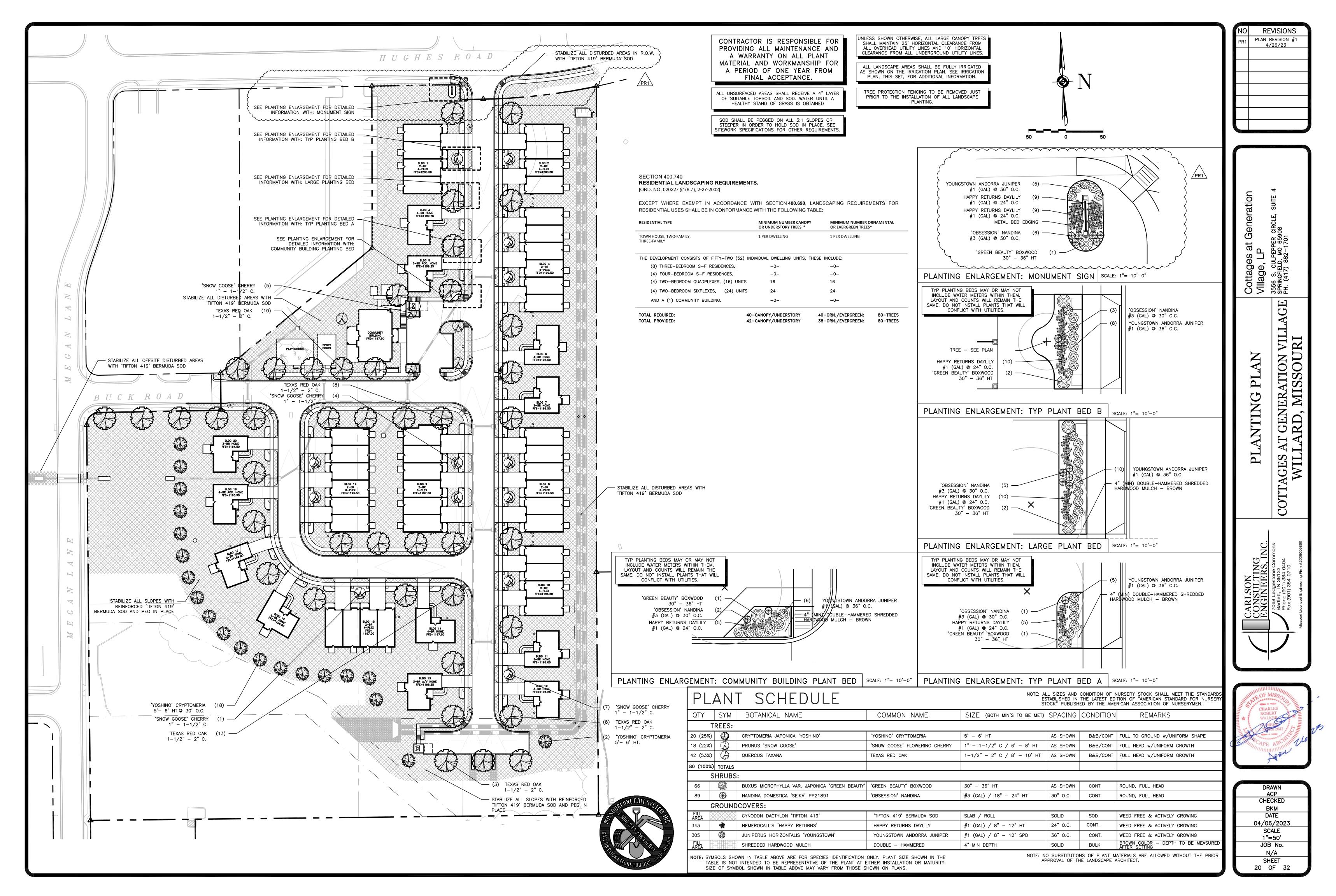


Cottages at (Village, LP 3556 S. CULPEPPER SPRINGFIELD, MO 65 PH. (417) 882-170

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PLANTING NOTES PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING HE COURSE OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY AND ALI TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC WHICH OCCURS AS A RESULT PLANTING SHALL BE INSTALLED IN CONFLICT WITH UTILITIES. PROJECT SITE AND ADJACENT TO THE WORK AREA. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY LINES DURING THE CONSTRUCTION PERIOD.

- OF THE LANDSCAPE CONSTRUCTION TO OWNER'S SATISFACTION, AT NO ADDITIONAL COST. NO LOCATIONS OF EXISTING BURIED UTILITY LINES SHOWN ON THE PLANS ARE BASED UPON TH. BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS OF UTILITY LINES ON THE
- S. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING SITE CONDITIONS PRIOR TO PROCEEDING. IF UNFORESEEN CIRCUMSTANCES ARE ENCOUNTERED, THE CONTRACTOR IS TO STOP WORK AND CONTACT THE LANDSCAPE ARCHITECT IMMEDIATELY.
- . SAFE, CLEARLY MARKED PEDESTRIAN AND VEHICULAR ACCESS TO ALL ADJACENT PROPERTIES MUST BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS.
- . STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT
- 5. ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS AND DISEASE. '. ALL PLANTS MUST BE CONTAINER GROWN OR BALLED AND BURLAPPED AS INDICATED IN THE
- 8. ALL TREES MUST BE STRAIGHT TRUNKED AND FULL HEADED AND MEET ALL REQUIREMENTS
- 9. AFTER BEING DUG AT THE NURSERY SOURCE, ALL TREES IN LEAF SHALL BE ACCLIMATED FOR
- TWO (2) WEEKS UNDER A MIST SYSTEM PRIOR TO INSTALLATION. 10. ALL LANDSCAPED AREAS SHALL BE SPRAYED WITH HERBICIDE 4 WEEKS PRIOR TO INSTALLATION OF LANDSCAPING. THE EXISTING MATERIAL SHALL BE REMOVED BEFORE ANY INSTALLATION OF
- PLANT MATERIAL OR SEED. THE LANDSCAPE ARCHITECT SHALL APPROVE THE STAKING LOCATION OF ALL PLANT MATERIAL PRIOR TO INSTALLATION. IF PLANT MATERIAL IS INSTALLED PRIOR TO LOCATION APPROVAL, THE
- CONTRACTOR MAY BE REQUIRED TO RELOCATE MATERIAL AT HIS OWN EXPENSE. 2. ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE, DURING AND AFTER INSTALLATION.
- 3. ALL NEW TREES SHALL HAVE 'MYCOR TREE SAVER' OR EQUAL MYCORIZAL FUNGAL TREATMENT INSTALLED AT RATE RECOMMENDED BY MANUFACTURER AT THE TIME OF INSTALLATION.
- 4. ALL TREES MUST BE GUYED OR STAKED AS SHOWN IN THE DETAILS. 5. ALL SHRUB BED AREAS SHALL RECEIVE A MIN OF 8" OF PLANTING BED MIX AS DESCRIBED IN
- 16. ALL BED AREAS SHALL BE BERMED A MINIMUM OF 8" TO PROMOTE GOOD BED DRAINAGE (AFTER GENTLE TOPSOIL TAMPING). BEDS WILL BE MOUNDED FROM SIDES TO CENTER,
- PROMOTING GOOD DRAINAGE. ALL CONSTRUCTION AREAS TO RECEIVE TURFGRASS SHALL RECEIVE A 4" MIN DEPTH OF SUITABLE TOPSOIL MIX PER DETAILS AND SPECIFICATIONS. RESULTS OF TOPSOIL ANALYSIS ARE TO BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR THE APPROVAL PRIOR TO ANY
- . PRIOR TO PLANTING OR SEEDING, MULTIPLE REPRESENTATIVE SAMPLES OF THE TOPSOIL SHALI BE TAKEN AND SENT TO THE STATE EXTENSION AGENCY FOR ANALYSIS. FERTILIZE SUITABLE TOPSOIL IN TURFGRASS AREAS AS PER EXTENSION SERVICE'S RECOMMENDATIONS FOR TURFGRASS SPECIES SPECIFIED ON PLANS. THE PLANTING BED MIX TO BE USED IN SHRUB PLANTING BEDS IS TO BE FERTILIZED AS PER EXTENSION SERVICE'S RECOMMENDATIONS FOR ORNAMENTAL PLANTINGS.
- 9. ALL PLANTING BEDS SHALL HAVE 'SURFLAN' OR EQUAL PRE-EMMERGENT HERBICIDE BROADCAST AT RATE RECOMMENDED BY MANUFACTURER.
- . PLANTING OPERATIONS SHOULD ONLY TAKE PLACE DURING SUITABLE WEATHER CONDITIONS PLANTS ARE NOT TO BE INSTALLED WHEN THE SOIL IS EITHER HIGHLY SATURATED OR FROZEN.
- . ANY PLANT MATERIAL WHICH DIES, TURNS BROWN, OR DEFOLIATES (PRIOR TO TOTAL ACCEPTANCE OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE AND MEETING ALL PLANT LIST
- 2. DURING THE GROWING SEASON ALL ANNUALS SHALL REMAIN IN A HEALTHY, VIABLE CONDITION
- 23. ALL PLANTING AREAS, SHRUB, GROUND COVER AND SEASONAL COLOR ANNUAL PLANTING BEDS, ARE TO BE COMPLETELY COVERED WITH SHREDDED HARDWOOD MULCH AND SHALL MAINTAIN A MINIMUM LAYER OF (4") FOUR INCHES IN DEPTH AFTER SETTLING.
- 4. THERE IS NO SEPARATE PAY ITEM FOR DRESSING OUT SHRUB BEDS OR TREE SAUCERS WITH SHREDDED HARDWOOD MULCH, IT SHALL BE INCLUDED WITH THE COST OF ALL PLANT MATERIALS.
- 5. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK. ALL PLANT MATERIALS QUANTITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANTING BEDS AT SPACING SHOWN.
- 26. ALL DISTURBED AREAS ARE TO RECEIVE A 4" LAYER OF SUITABLE TOPSOIL AND HYDROSEED AND/OR SOD (WHERE SHOWN). WATER UNTIL A HEALTHY STAND OF GRASS IS OBTAINED. THIS IS ÉXCLUDING ALL LANDSCAPÉD ISLANDS AND ENTRANCE AREAS. ALL PLANT MATERIALS SHALL BE GUARANTEED FOR 12 MONTHS BEGINNING ON THE DATE OF
- TOTAL ACCEPTANCE. PLANTS NOT IN A HEALTHY GROWING CONDITION SHALL BE REMOVED FROM THE SITE AT THE DIRECTION OF THE LANDSCAPE ARCHITECT AND THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS WITH PLANTS ALSO GUARANTEED FOR THE REMAINDER OF THE 12 MONTH WARRANTY.
- 8. CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL GUY WIRES AT THE END OF THE 1 YEAR
- 29. REFER TO PROJECT SITEWORK SPECIFICATIONS FOR ALL INFORMATION NEEDED FOR INPLEMENTATION OF PLANTING PLANS.

PLANTING NOTES

TEMPORARY SEEDING

SEED: MIXTURE 70% RYEGRASS/30% WINTER WHEAT - 4 LBS / 1,000 SQ FT. AREAS TO RECEIVE SEED ARE TO BE FERTILIZED WITH A COMPLETE FERTILIZER PER EXTENSION SERVICE'S RECOMMENDATIONS.

PERMANENT SEEDING

· SEED MIX B: COMMON BERMUDA @ 4 LBS / 1,000 SQ FT. AREAS TO RECEIVE SEED ARE TO BE FERTILIZED WITH A COMPLETE FERTILIZER PER EXTENSION SERVICE'S RECOMMENDATIONS.

- SEED MIX B: COMMON BERMUDA @ 4 LBS / 1,000 SQ FT.
- ALL DISTURBED AREAS NOT RECEIVING SOD SHALL BE SEEDED WITH SEED MIX UNLESS NOTED OTHERWISE. PREPARATION OF ALL AREAS TO BE SEEDED SHALL CONSIST OF THOROUGHLY LOOSENING OR
- SCARIFYING THE SOIL TO A DEPTH OF TWO (2) TO FOUR (4) INCHES USING A TRACTOR DISC OR OTHER APPROVED METHOD. AREAS TO BE SEEDED SHALL BE CLEARED OF ANY WEEDS, STICKS, OR OTHER DEBRIS. SEEDING MAY BE DONE IMMEDIATELY THEREAFTER PROVIDED THE BED HAS REMAINED IN GOOD FRIABLE CONDITION AND HAS NOT BECOME WET. WATER ALL SEEDED SOIL IMMEDIATELY AFTER SEEDING USING SPRAY NOZZLES OR ANOTHER ACCEPTABLE METHOD WHICH DOES NOT CAUSE SOIL OR SEED TO WASH AWAY.
- SUITABLE TOPSOIL SHALL MEET THE FOLLOWING REQUIREMENTS: • IT SHALL ALL BE A RICH EASILY FRIABLE BROWN OR BLACK LOAMY TO SANDY LOAM SOIL
- 5% ORGANIC MATERIAL ● PH OF 5.5 - 7.4

ANY AREAS WHERE THE SEED MAY WASH OR BLOW AWAY OR DOES NOT GERMINATE ARE TO BE

- FREE OF WEEDS, LITTER, STIFF CLAY, OR STONES GREATER THAN 1" IN DIAMETER • HEAVY CLAYS AND FINE SILTY SOILS ARE NOT ACCEPTABLE
- RE-GRADED AND RE-SEEDED UNTIL AREA HAS A FULL AND HEALTHY STAND OF TURFGRASS. AREAS TO RECEIVE SEED ARE TO BE FERTILIZED WITH A COMPLETE FERTILIZER AS PER EXTENSION SERVICE'S RECOMMENDATIONS FOR SPECIFIED TURFGRASS SPECIES. CONTRACTOR SHALL SEQUENCE SEEDING TO PROVIDE A HEALTHY STAND OF GRASS AT THE TIME OF THE OWNER'S POSSESSION.

ALL SODDED AREAS TO BE 'TIFTON 419' HYBRID BERMUDA.

TO MAKE A SOLID SODDED AREA.

- ALL CURBED ISLANDS TO BE SODDED UNLESS NOTED OTHERWISE. - SLOPES GREATER THAN 3:1 SHALL BE PEGGED TO HOLD SOD IN PLACE.
- \cdot ALL AREAS TO BE SODDED SHALL RECEIVE A MINIMUM 4" LAYER OF SUITABLE TOPSOIL THAT MEETS THE CONDITIONS LISTED ABOVE AND THAT HAS BEEN TILLED, FINE GRADED, AND HAS HAD ALL STONES, ROOTS, DEBRIS, ETC REMOVED.
- SOD IS TO BE LAID AS SOON AS IT IS DELIVERED TO PLANTING AREAS. ONLY HEALTHY MOIST GREEN SOD IS TO BE LAID. ANY SOD WHICH IS BROWN AND UNDER STRESS IS UNACCEPTABLE. ANY SOD WHICH IS NOT LAID WITHIN 24 HOURS OF DELIVERY SHALL BE UNACCEPTABLE.
- \cdot SOD SHALL BE A MINIMUM OF 3/4" THICK, FREE OF WEEDS AND PESTS AND CUT NO MORE THAN 24 HOURS PRIOR TO PLANTING. · SOD PANELS SHALL BE LAID TIGHTLY TOGETHER AND END JOINTS STAGGERED SO AS
- ANY JOINTS OR SEAMS THAT MAY EXIST AFTER LAYING SOD SHALL BE FILLED WITH SAND SO AS TO CREATE A SMOOTH AND UNIFORM GROWING SURFACE. SOD IS TO BE ROLLED AND WATERED AT THE TIME OF INSTALLATION TO ENSURE GOOD

SOD-SOIL CONTACT AND TO PROVIDE A SMOOTH, UNIFORM WALKING SURFACE.

SOD IS TO BE PEGGED ON ALL SLOPES IN ORDER TO HOLD SOD IN PLACE. SEE SITEWORK SPECIFICATIONS FOR OTHER REQUIREMENTS.

ALL DISTURBED AREAS WITHIN DEVELOPED AREAS ARE TO RECEIVE A 4" LAYER OF SUITABLE TOPSOIL, HYDRO-SEED, MULCH, OR SOD (WHERE SHOWN). ARE IS TO BE WATERED UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED. SOD MAY BE SUBSTITUTED FOR HYDRO—SEED IN TURF GRASS AREAS AT GENERA CONTRACTOR'S DISCRETION WITH NO ADDITIONAL COST TO OWNER. SOD TYPE SHALL MATCH PERMANENT SOD TYPE SPECIFIED ON CONSTRUCTION PLANS.

PERMANENT SEEDING SHALL BE APPLIED BASED ON THE TIME OF YEAR AND TEMPERATURE OF SOIL. MAY 1 - JULY 30 (OR ONCE SOIL TEMP. IS ABOVE 60°)

APPLY HULLED BERMUDA SEED @ MIN 4 LBS / 1000 SF PERMANENT SEEDING OPERATIONS WITH BERMUDAGRASS SEED SHOULD NOT TAKE PLACE DURING AUGUST. IF SEEDING IS REQUIRED, APPLY THE TEMPORARY SEED MIX TO STABILIZE THE SOIL, AND RE-SEED WITH THE PERMANENT SEED MIX DURING THE FALL/WINTER SEASON.

SEPTEMBER 1 - FEBRUARY 28 (OR ONCE SOIL TEMP. IS BELOW 60°) - APPLY UNHULLED BERMUDA SEED @ MIN 8 LBS / 1000 SF AND OVERSEED WITH TEMPORARY SEED MIX AS DESCRIBED IN THE SEEDING AND SODDING NOTES.

PERMANENT SEEDING OPERATIONS WITH BERMUDAGRASS SEED SHOULD NOT TAKE PLACE DURING MARCH - APRIL IF SEEDING IS REQUIRED, APPLY THE TEMPORARY SEED MIX TO STABILIZE THE SOIL, AND RE-SEED WITH THE PERMANENT SEED MIX DURING THE SUMMER SEASON.

SEEDING & SODDING NOTES

ALL MINIMIUM SIZES LISTED IN PLANT SCHEDULE SHALL BE MET: CALIPER, HEIGHT, AND ROOT BALI

	SHADE	AND FLO	WERING	TREES	
	CALIPER	HEIGHT TYPE 1	HEIGHT TYPE 2	MINIMUM DIAMETER BALL	BALL DEPTH
	INCHES	FEET	FEET	INCHES	INCHES
" O	1"	8'-10'	6'-7'	16"	12"
O G	1-1/2"	10'-12'	8'-9'	20"	15"
) } } }	2"	12'-14'	8'-10'	24"	16"
MEASURED 6" ABOVE GRADE	2-1/2"	12'-14'	8'-10'	28"	18"
E SE	3"	14'-16'	10'-12'	32"	19"
PAG	3-1/2"	14'-16'	10'-12'	38"	23"
`	4"	16'-18'	10'-12'	42"	25"
Olil	4-1/2"	16'-18'	10'-12'	48"	29"
	5"	18'+	12'+	54"	32"
AB SU	5-1/2"	18'+	12'+	57"	34"
MEASURED 12" ABOVE GRADE	6"	20'+	14'+	60"	36"
≥2	7"	24'+	16'+	70"	42"
	8"	26'+	18'+	80"	48"

SOURCE: AMERICAN STANDARD FOR NURSERY STOCK CALIPER TAKES PRECEDENCE OVER HEIGHT FOR TYPE I SHADE TREES. BOTH MINIMUMS MUST BE MET.

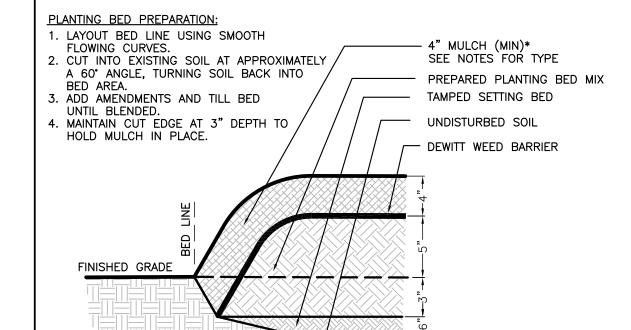
YPE 1 LARGE SHADE TREES)			
CER RUBRUM	PLATANUS <i>SPP</i>		
CER SACCHARUM	QUERCUS SPP		
Betula <i>SPP</i>	TAXODIUM <i>SPP</i>		
GINKGO <i>SPP</i>	SALIX <i>SPP</i>		
GLEDITISA <i>SPP</i>	ZELKOVA <i>SPP</i>		

(MEDIUM/SLOW SHADE TREES)		
AESCULUS SPP	MAGNOLIA GRANDIFLORA	
CELTIS SPP	NYSSA <i>SPP</i>	
CLADRASTIS LUTEA	OLEA EUROPA	
FAGUS SYLVATICA	QUERCUS ALBA	
KOELREUTERIA <i>SPP</i>	SORBUS SPP	
LABURNUM <i>SPP</i>	TILIA CORDATA	
LIQUIDAMBAR SPP	ULMUS PARVIFOLIA	

TYPE 3 (SMALL UPRIGHT T	REES)
ACER CAMPESTRE	MAGNOLIA VIRGINIANA
AMELANCHIER SPP	PRUNUS SPP
CARPINUS SPP	PYRUS SPP
CERCIS SPP	STYRAX <i>SPP</i>
CRATAEGUS <i>SPP</i>	SYRINGA RETICULATA
OXYDENDRUM <i>SPP</i>	

SMALL SPREADING TREES CER GRISEUM ORNUS SPP AGERSTROMIA *SPP* MAGNOLIA SOULANGIANA MAGNOLIA STELLATA VITEX *SPP*

TREE SIZE/ROOT BALL RELATIONSHIP



PLANTING BED MIX: 3. 40% SAND

*MULCH SHALL BE KEPT AWAY FROM THE TRUNK OF ALL PLANT MATERIAL

1. 20% EXISTING APPROVED ONSITE SOIL 2. 15% ORGANIC MATTER 4. 25% SUITABLE TOPSOIL 5. FERTILIZE AS RECOMMENDED BY EXTENSION SERVICE FOR ORNAMENTAL PLANTINGS. PLANTING BED PREP

MATERIAL SHA BE REMOVED SAUCER-AFTER FIRST I ROOTBALL-GROWING SEASO GUY WIRES -TREE PLANTING 1. LAYOUT PERIMETER PLANTING SPACED AS PER PLAN. 2. FILL IN PLANTING BED WITH TRIANGULAR SPACING. 3. ADJUST AS PER LANDSCAPE ARCHITECT'S INSTRUCTIONS.

• INSTALL EROSION CONTROL BLANKET AS SPECIFIED

• FILL SPACES IN BLANKET WITH SAND TO REMOVE

STAPLE PATTERN GUIDE

13.3' (4.06 M) WIDE ROLLS

• • • • • • • •

3.4 STAPLES PER SQ YD

(4.1 STAPLES PER SQ M)

SODDING ON SLOPES

• INSTALL REINFORCED SOD OVER BLANKET AND

PEG THROUGH BLANKET TO SECURE.

BY THE MANUFACTURER.

NOTE: SEE PLANS & SPECS

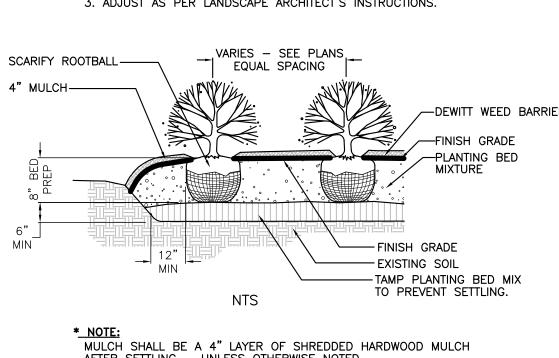
FLAGGING (TYP)

FOR MATERIALS.

*MULCH SHALL BE KEPT AWAY FROM

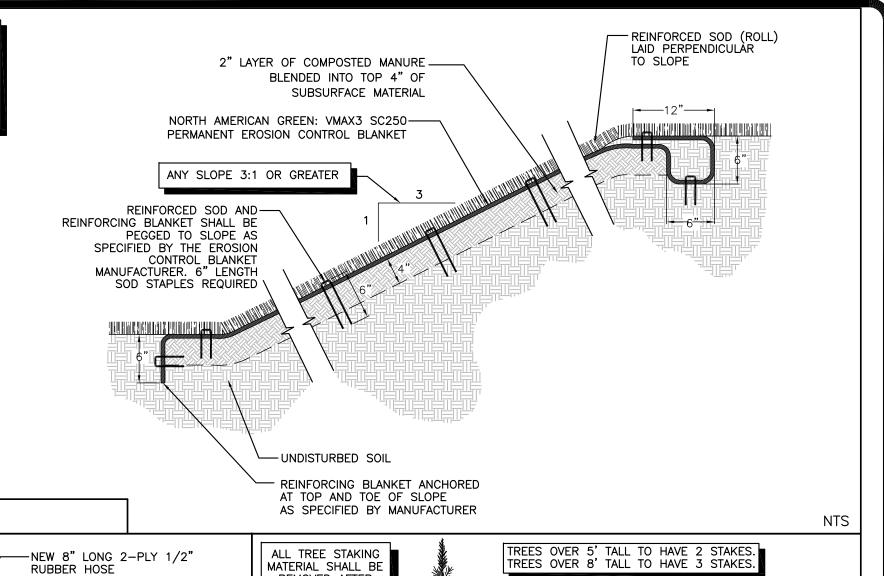
THE TRUNK OF ALL PLANT MATERIAL

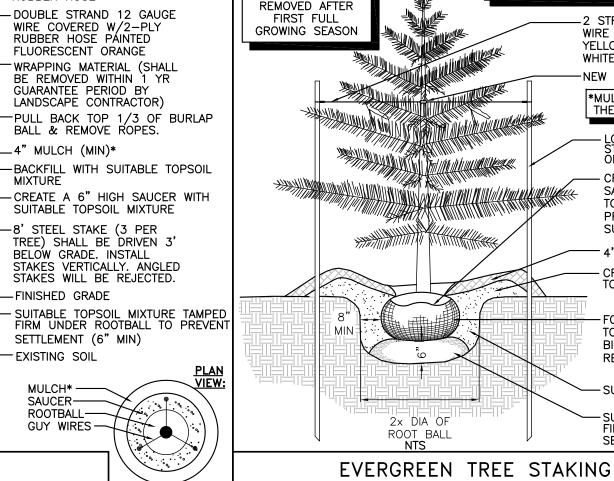
ALL AIR SPACES.



MULCH SHALL BE A 4" LAYER OF SHREDDED HARDWOOD MULCH AFTER SETTLING — UNLESS OTHERWISE NOTED *MULCH TO BE KEPT AWAY FROM THE TRUNK OF ALL PLANT MATERIAL.

SHRUB AND GROUNDCOVER PLANTINGS





MATERIAL SHALL B

WIRE COVERED W/2-PLY RUBBER HOSE PAINTED

FLUORESCENT ORANGE

GUARANTEE PERIOD BY

LANDSCAPE CONTRACTOR)

BALL & REMOVE ROPES.

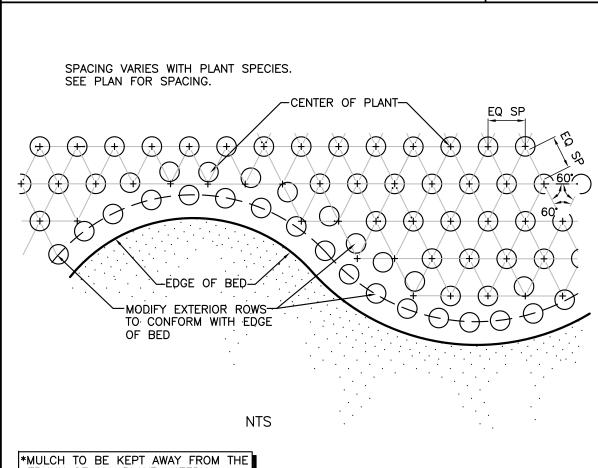
-8' STEEL STAKE (3 PER

BELOW GRADE. INSTALL

SETTLEMENT (6" MIN)

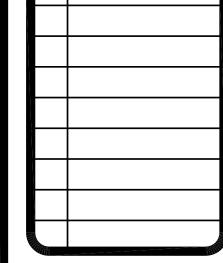
FINISHED GRADE

_4" MULCH (MIN)*



*MULCH TO BE KEPT AWAY FROM THE TRUNK OF ALL PLANT MATERIAL.

PLANT SPACING



s at LP ည် မ

-2 STRANDS #12 GA PLIABLE STEEL

WIRE COVERED WITH FLUORESCENT

YELLOW PLASTIC SHEATHING WITH

-NEW 8" LONG 2-PLY 1/2" RUBBER HOSE

- LOCATE 6', STEEL TEE POST ANCHOR STAKE 18" AWAY FROM TREE TRUNK ON SIDE OF PREVAILING WIND.

CROWN OF ROOT BALL SHALL BEAR

TO FINISHED GRADE AS IT BORE TO

-CREATE A SOIL SAUCER WITH SUITABLE TOPSOIL MIXTURE (6" MIN)

FOLD DOWN OR CUT AND REMOVE

-SUITABLE TOPSOIL MIXTURE TAMPED FIRM UNDER ROOTBAL TO PREVENT SETTLEMENT (6" MIN)

TOP 1/3 OF BURLAP. IF NON-

BIODEGRADABLE WRAP IS USED,

-SUITABLE TOPSOIL MIXTURE

PREVIOUS GRADE. PLACE ON

SUBGRADE PEDESTAL.

REMOVE TOTALLY.

SAME RELATION (OR SLIGHTLY ABOVE)

*MULCH SHALL BE KEPT AWAY FROM

THE TRUNK OF ALL PLANT MATERIAL

WHITE FLAGGING (TYP)

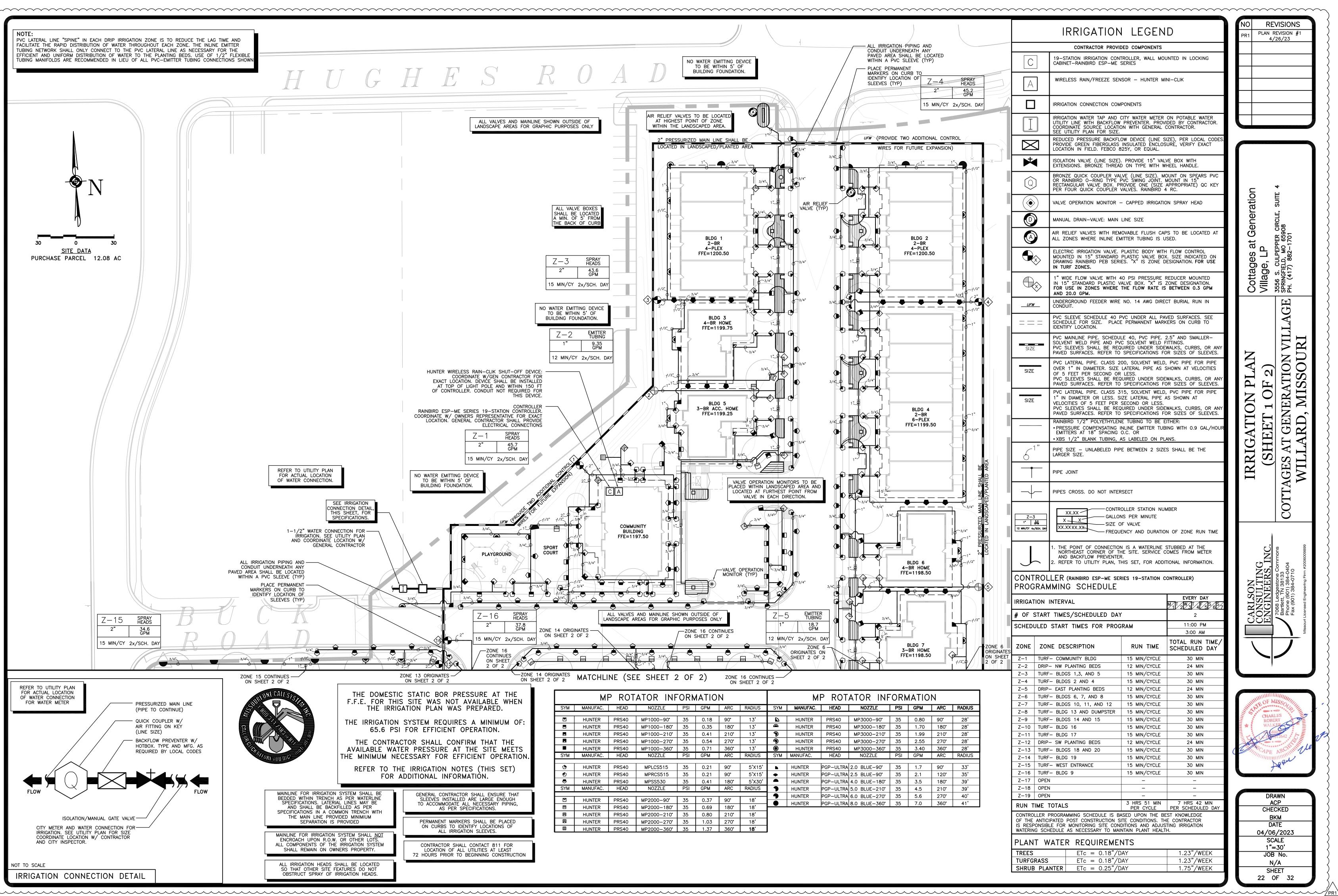
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LSON SULTING INEERS, IN



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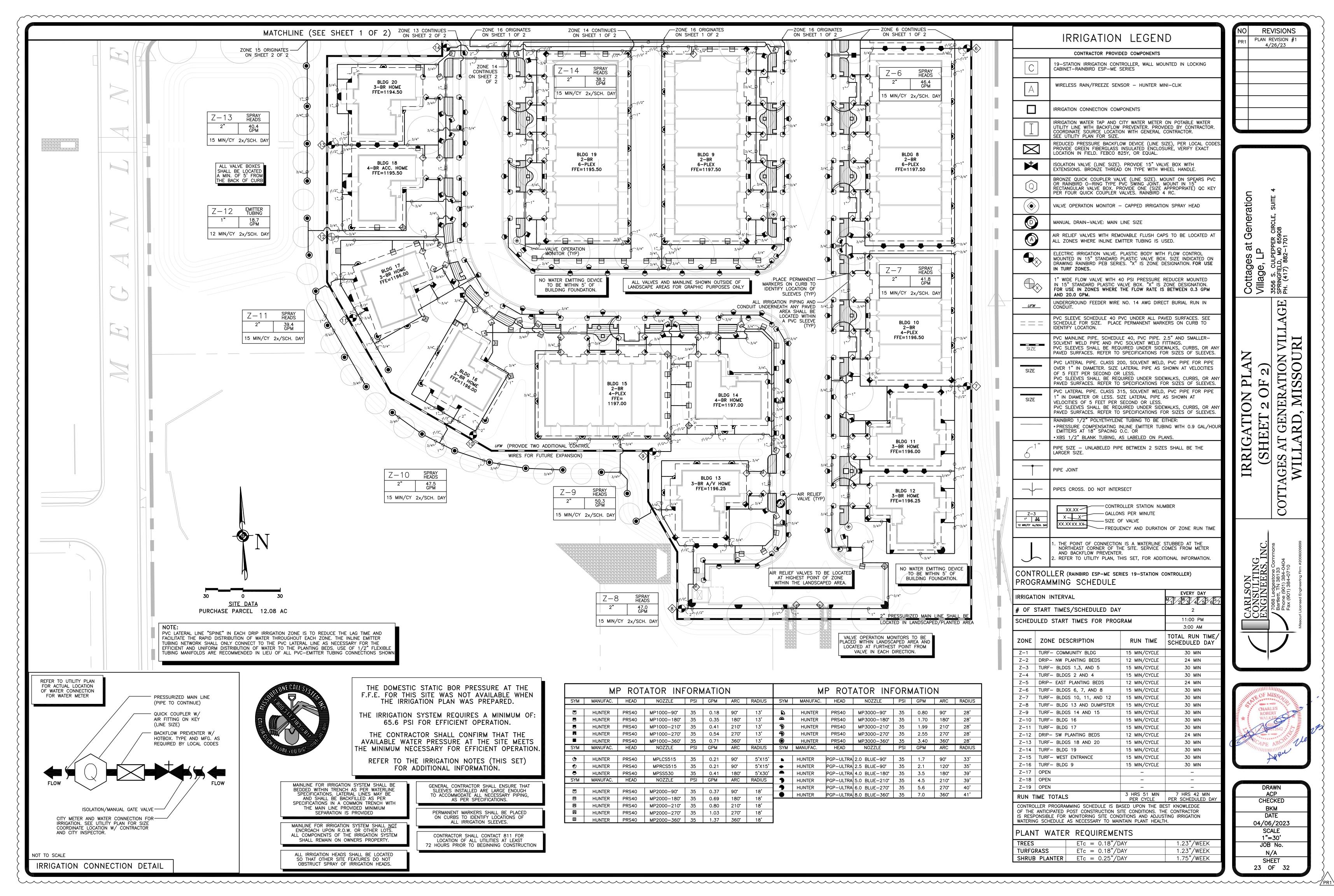


REVISIONS PLAN REVISION # 4/26/23

Cotta Villag



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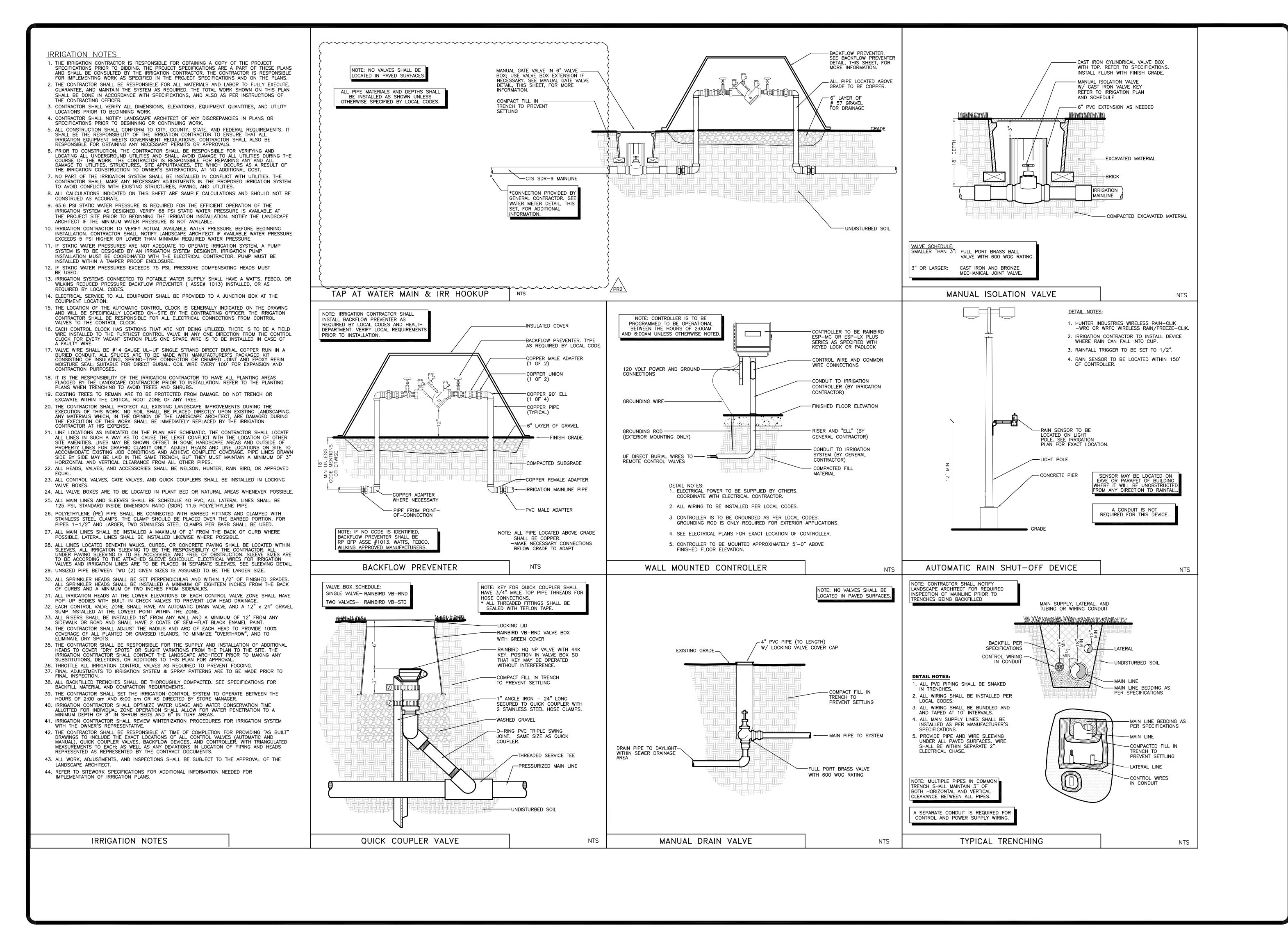


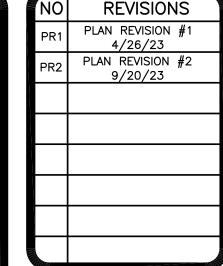
REVISIONS PLAN REVISION # 4/26/23

Cotta Villag



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DETAILS
Village, LI
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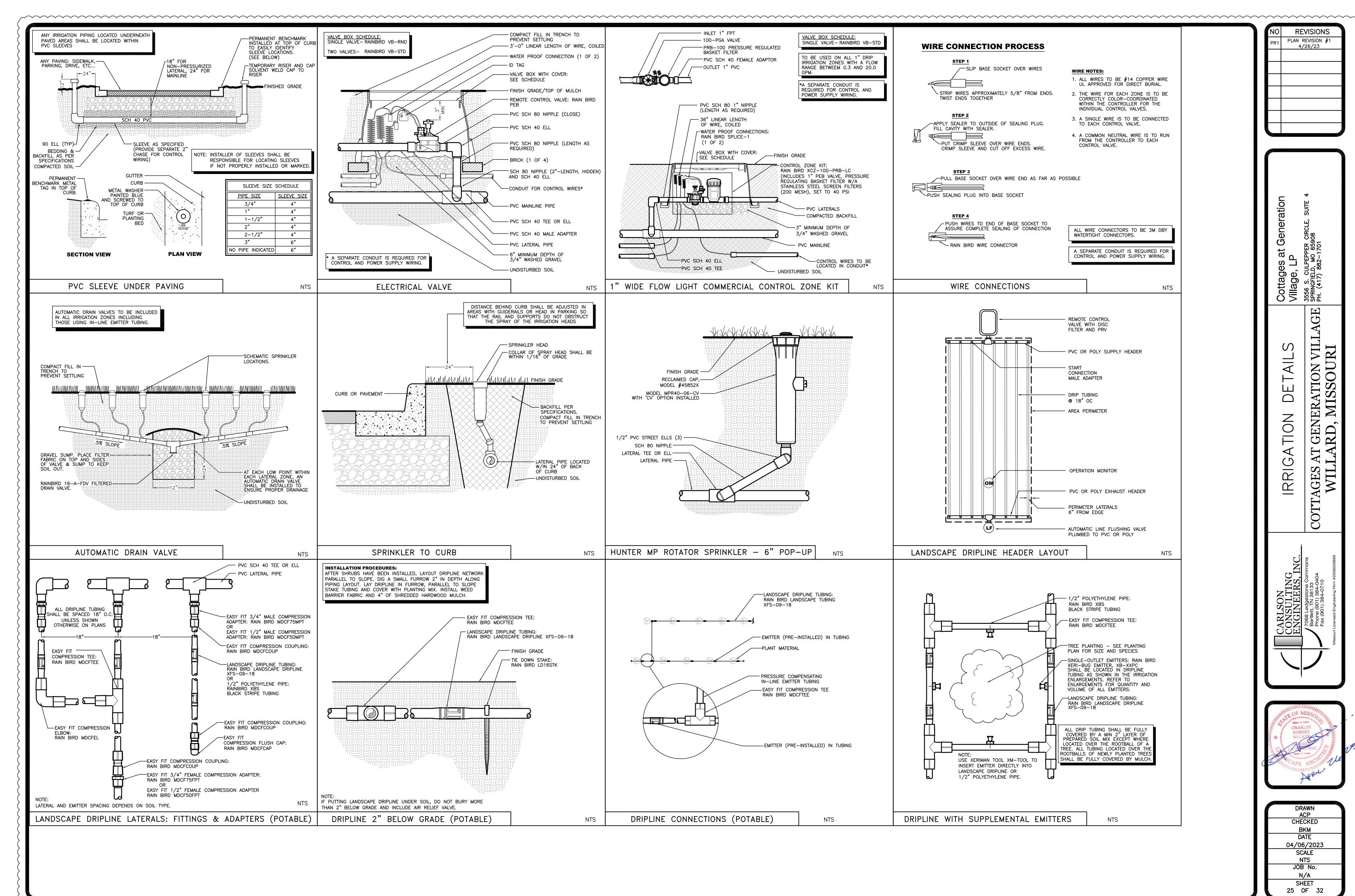
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CARLSON
CONSULTING
ENGINEERS, INC.
7068 Ledgestone Commons
Bartlett, TN 38133
Phone (901) 384-0404
Fax (901) 384-0710

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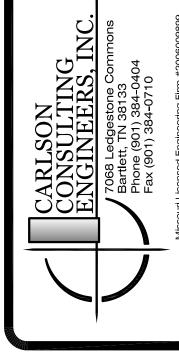


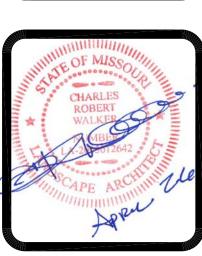
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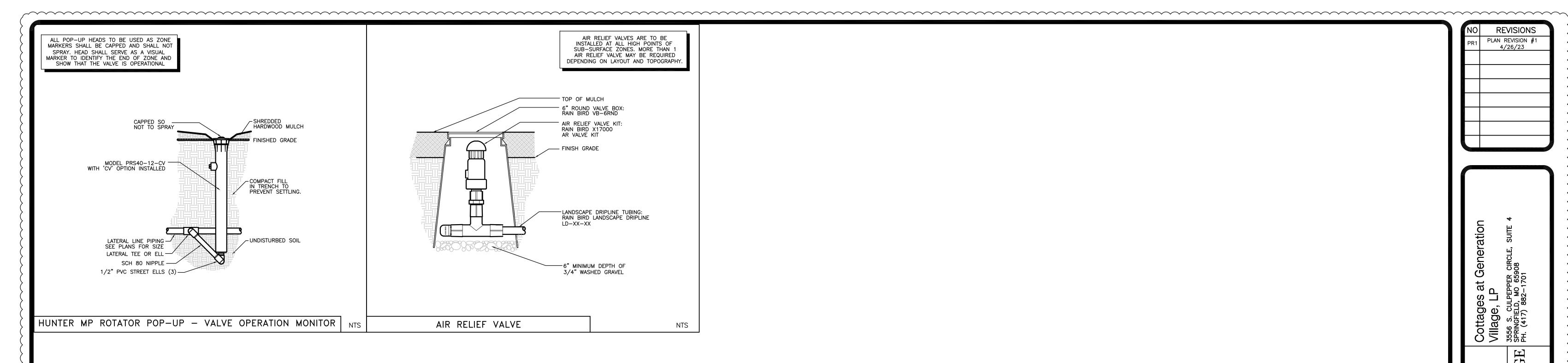
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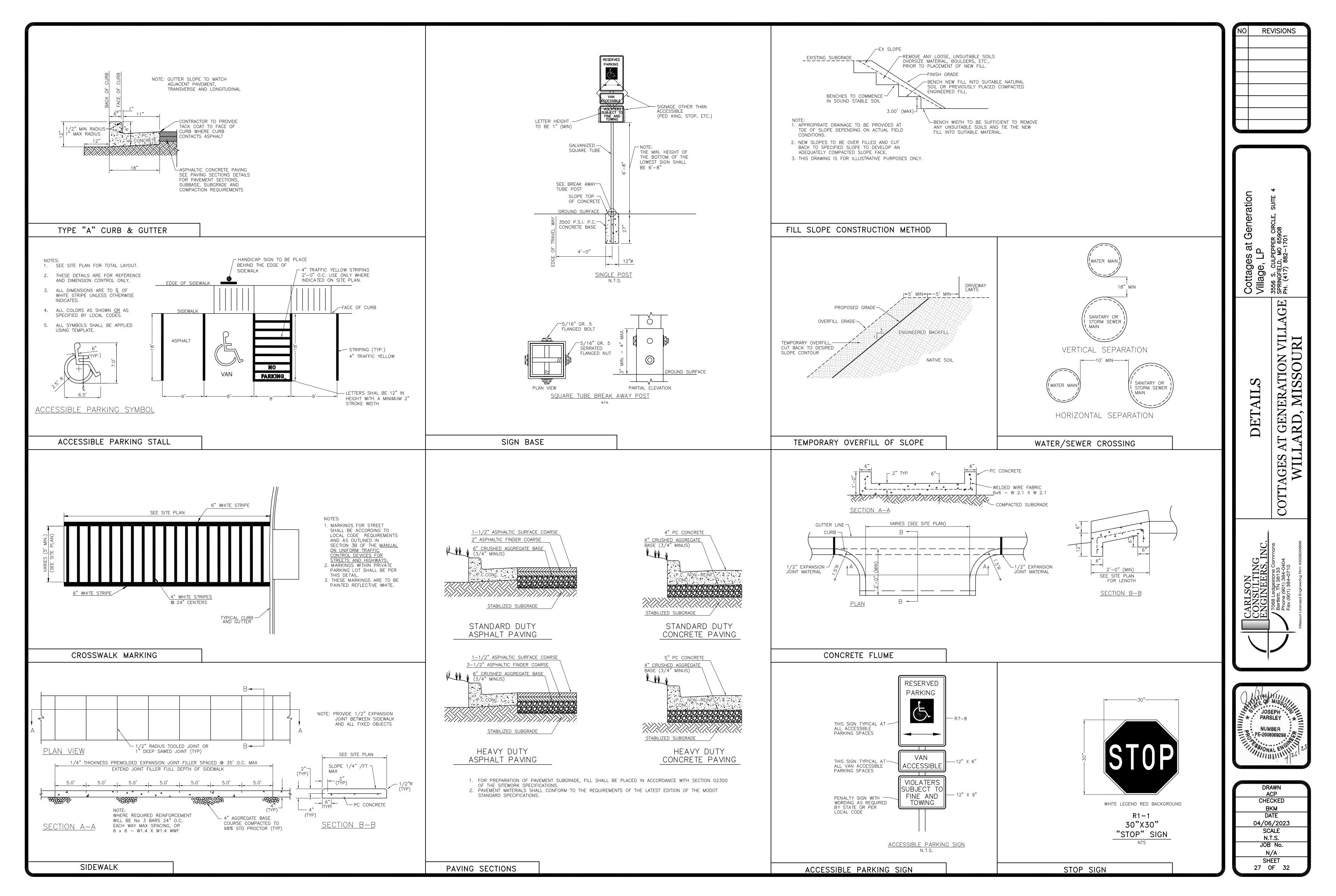


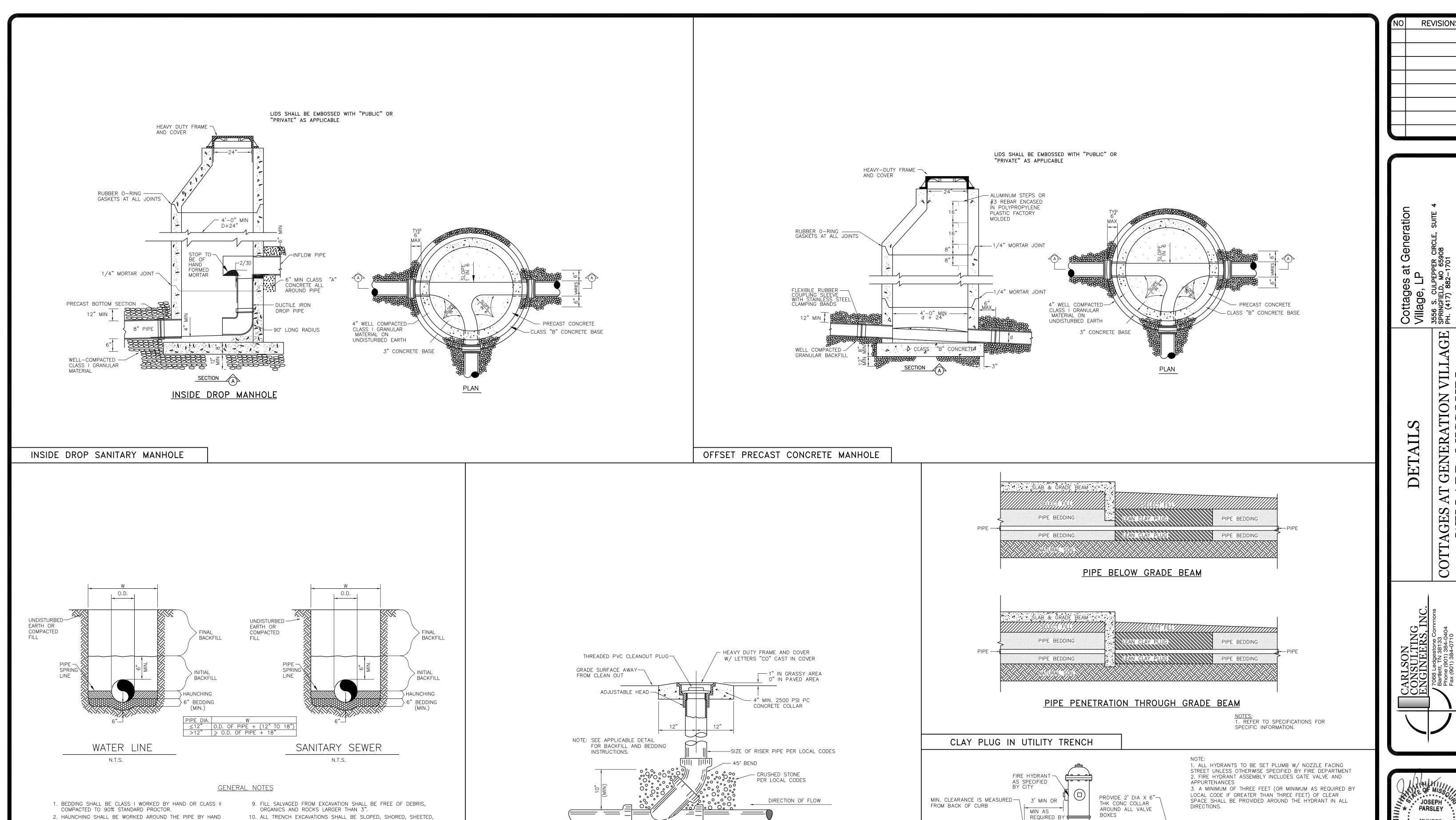
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Cottages at (Village, LP 3556 S. CULPEPPER SPRINGFIELD, MO 65 PH. (417) 882-170

REVISIONS

PLAN REVISION #1 4/26/23





PLUG WYE IF SERVICE LATERAL

DOES NOT CONTINUE

SEE PLAN FOR PIPE SIZE, TYPE, AND ELEVATION

SANITARY SEWER CLEAN-OUT

SANITARY SEWER CLEANOUT

TO ELIMINATE VOIDS AND SHALL BE CLASS I OR CLASS II

3. INITIAL BACKFILL SHALL BE CLASS I WORKED BY HAND OR CLASS II COMPACTED TO 90% STANDARD PROCTOR.

4. INITIAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS III

5. FINAL BACKFILL SHALL BE CLASS I, II, OR III COMPACTED TO

6. FINAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS IV

7. ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM

8. ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 8" LOOSE LIFTS IN ACCORDANCE WITH ASTM D 698. CLASS III AND IV

MATERIALS SHALL BE COMPACTED NEAR OPTIMUM MOISTURE

COMPACTED TO 90% PROCTOR.

98% STANDARD PROCTOR.

D 2321-11.

COMPACTED TO 90% STANDARD PROCTOR.

COMPACTED TO 95% STANDARD PROCTOR.

UTILITY TRENCH & BEDDING

BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA

ASTM D 2321-11 MAY BE USED ONLY IF THE MATERIAL IS WRAPPED

REGULATIONS AND LOCAL ORDINANCES. (SEE SPECIFICATIONS)

SPECIFICATION SECTION 02300 FOR TYPE) AND WITH WRITTEN

12. THE UPPER 12 INCHES OF FINAL BACKFILL FOR ALL TRENCHES IN NON-PAVEMENT AREAS SHALL BE A LOW PLASTICITY COHESIVE

FILL. REFER TO SITEWORK SPECIFICATION SECTION 02300 FOR

11. ANY OPEN-GRADED MATERIAL MEETING THE REQUIREMENTS OF

IN AN APPROVED FILTER OR DRAINAGE FABRIC (REFER TO

ALLOWABLE "SATISFACTORY MATERIALS" AND COMPACTION

PERMISSION FROM THE CEC.

REQUIREMENTS.



FINISH GRADE

REFER TO THRUST BLOCKING DETAIL FOR THRUST BLOCKING

REQUIREMENTS

VALVE BOX AS SPECIFIED BY CITY

-6" MJ GATE VALVE

SUPPORT

W/RETAINING GLANDS

LOCAL CODE

6 CU FT GRAVEL-

DRAIN-KEEP CLEAR-

8 MIL POLY- -

ETHYLENE LINING

BETWEEN CONC

& DUCTILE IRON (TYPICAL)

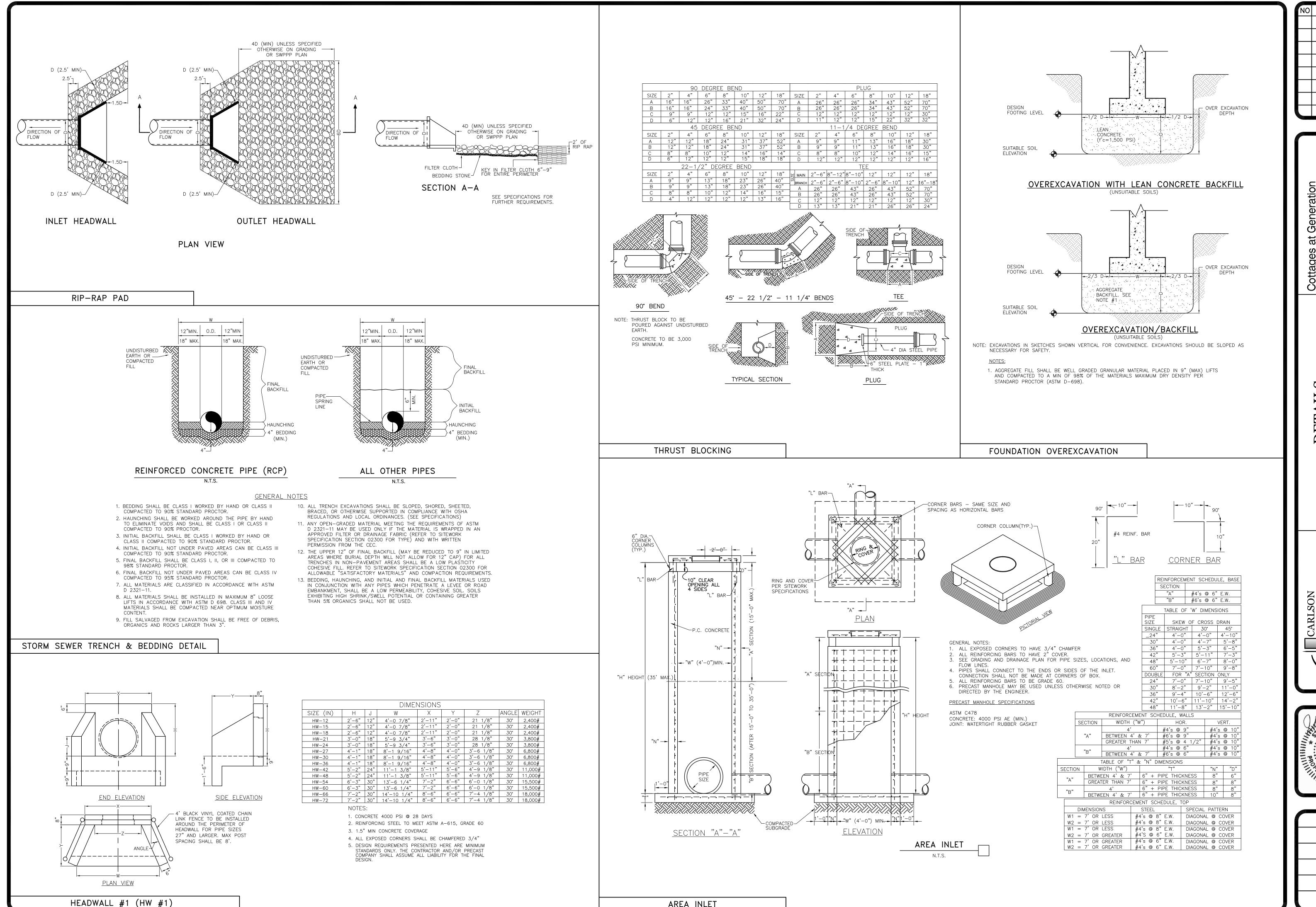
FIRE HYDRANT

OF CONCRETE

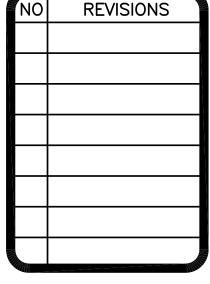
REFER TO THRUST BLOCKING —
DETAIL FOR THRUST BLOCKING

REQUIREMENTS

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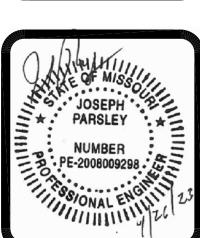


AREA INLET

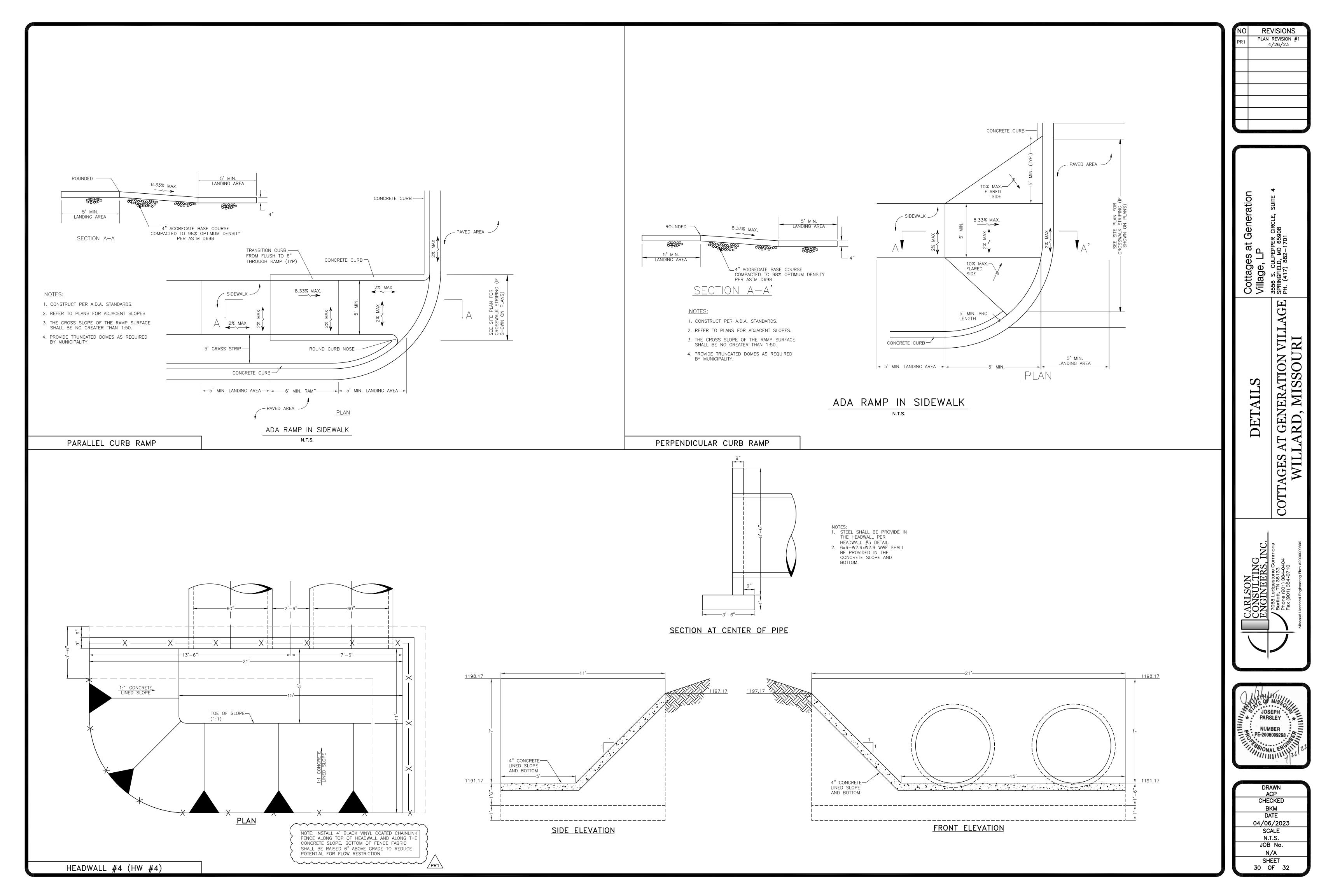


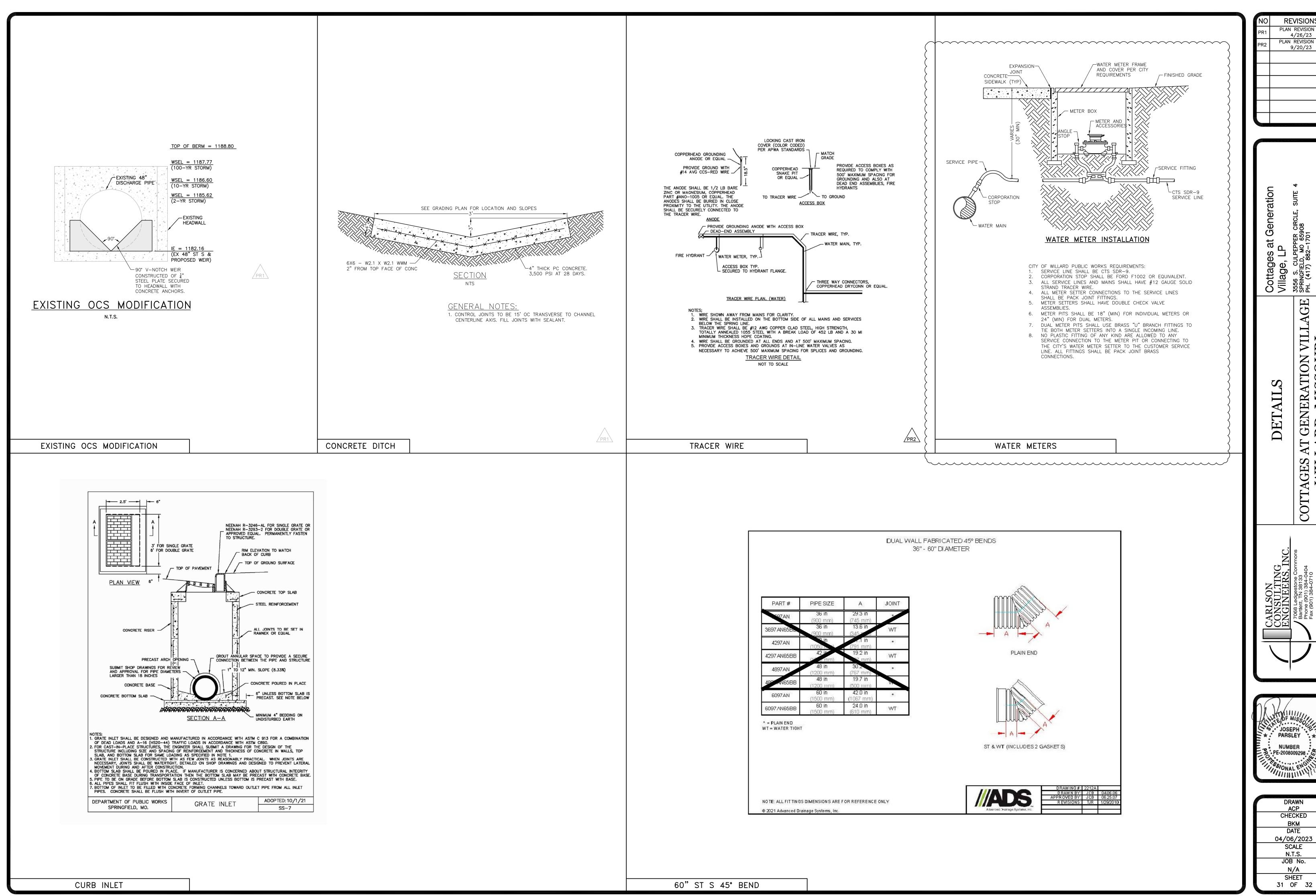
ation es at LP Cottages Village, L 3556 S. CULF SPRINGFIELD, PH. (417) 88

LSON ISULTING INEERS, INC

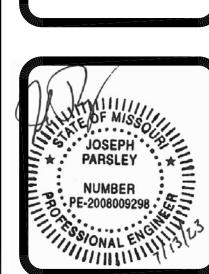


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4/26/23 PLAN REVISION #2 9/20/23



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