

FINAL DEVELOPMENT PLANS

FOR

LOT 13A OF WEST PRYOR

LEE'S SUMMIT

RELEASED FOR CONSTRUCTION
As Noted on Plan Review
Development Services Department
Lee's Summit, Missouri
10/25/2024

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Nathan.michael@kcpl.com

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Katie.darnell@spireenergy.com

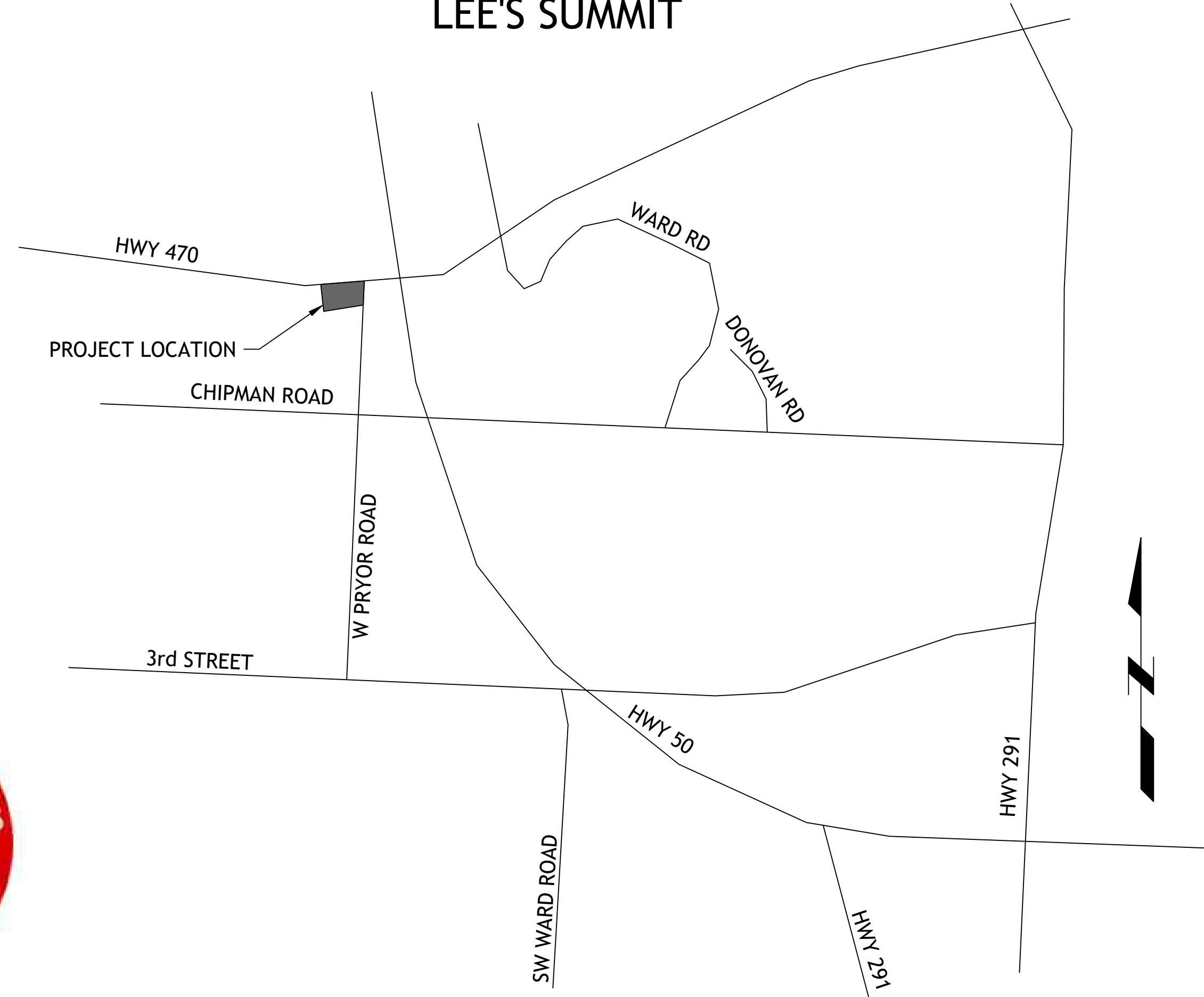
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Lee's Summit, Mo 64081
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Ryan Alkire
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ryan.alkire@cable.comcast.com

Google Fiber
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LOCATION MAP

INDEX OF SHEETS

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Drawings and/or Specifications are original proprietary work and property of the Engineer and intended specifically for this project. Use of items contained herein without consent of the Engineer is prohibited. Drawings illustrate best information available to the Engineer. Field verification of actual elements, conditions, and dimensions is required.

Revisions
11-29-23 CITY COMMENTS
1-4-24 PER CLIENT
1-16-24 PER EVERGY
2-29-24 PER CLIENT
3-7-24 SECTIONALIZER
3-18-24 PER CLIENT
4-1-24 PER CLIENT
8-19-24 PER CLIENT
9-11-24 PER CLIENT
9-25-24 CITY COMMENTS
10-23-24 PER CLIENT

UTILITY STATEMENT:

THE UNDERGROUND UTILITIES SHOWN HEREON ARE FROM FIELD SURVEY INFORMATION OF ONE-CALL LOCATED UTILITIES, FIELD SURVEY INFORMATION OF ABOVE GROUND OBSERVABLE EVIDENCE, AND/OR THE SCALING AND PLOTTING OF EXISTING UTILITY MAPS AND DRAWINGS AVAILABLE TO THE SURVEYOR AT THE TIME OF SURVEY. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. FURTHERMORE, THE SURVEYOR DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES BY EXCAVATION UNLESS OTHERWISE NOTED ON THIS SURVEY.

SAFETY NOTICE TO CONTRACTOR

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICE, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

WARRANTY/DISCLAIMER

THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER SM ENGINEERING NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE SM ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.

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 ON 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 WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

LEGAL DESCRIPTION:

LOT 13A, STREETS OF WEST PRYOR, LEE'S SUMMIT, JACKSON COUNTY MISSOURI

BENCHMARKS:

#1 CHISELED "SQUARE" ON TOP OF CURB POINT OF INTERSECTION OF WEST PARK PARKING LOT AT EAST DRIVE ENTRANCE
ELEVATION 985.05

#2 CHISELED "SQUARE" ON NORTHWEST CORNER AREA INLET, 25' EAST OF CURB LINE AND ON-LINE WITH SOUTH CURB OF LOWENSTEIN DRIVE AT 90° BEND IN ROAD
ELEVATION 971.06

NOTE

1. ALL CONSTRUCTION SHALL FOLLOW THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813. WHERE DISCREPANCIES EXIST BETWEEN THESE PLANS AND THE DESIGN AND CONSTRUCTION MANUAL, THE MORE STRINGENT SHALL PREVAIL.
2. THERE ARE NO GAS/OIL WELLS PER MDNR DATABASE OF OIL & GAS PERMITS
3. SITE IS LOCATED WITHIN FEMA ZONE X, AREAS OF MINIMAL FLOODING PER FEMA 29095C0416G DATED 1-20-17.

DEVELOPER

STREETS OF WEST PRYOR, LLC
DAVID N. OLSON
7200 W 133rd ST, SUITE 150
CELL: OVERLAND PARK, KS 66213
314-413-3598

ENGINEER

SM ENGINEERING
5507 High Meadow Circle
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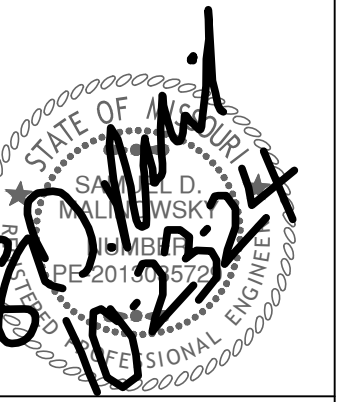


SAMUEL D. MALINOWSKY
PROFESSIONAL ENGINEER

LOT 13A OF WEST PRYOR
LEE'S SUMMIT, MISSOURI

s h e e t
C1.0
Civil
COVER SHEET
permit
19 OCTOBER 2023

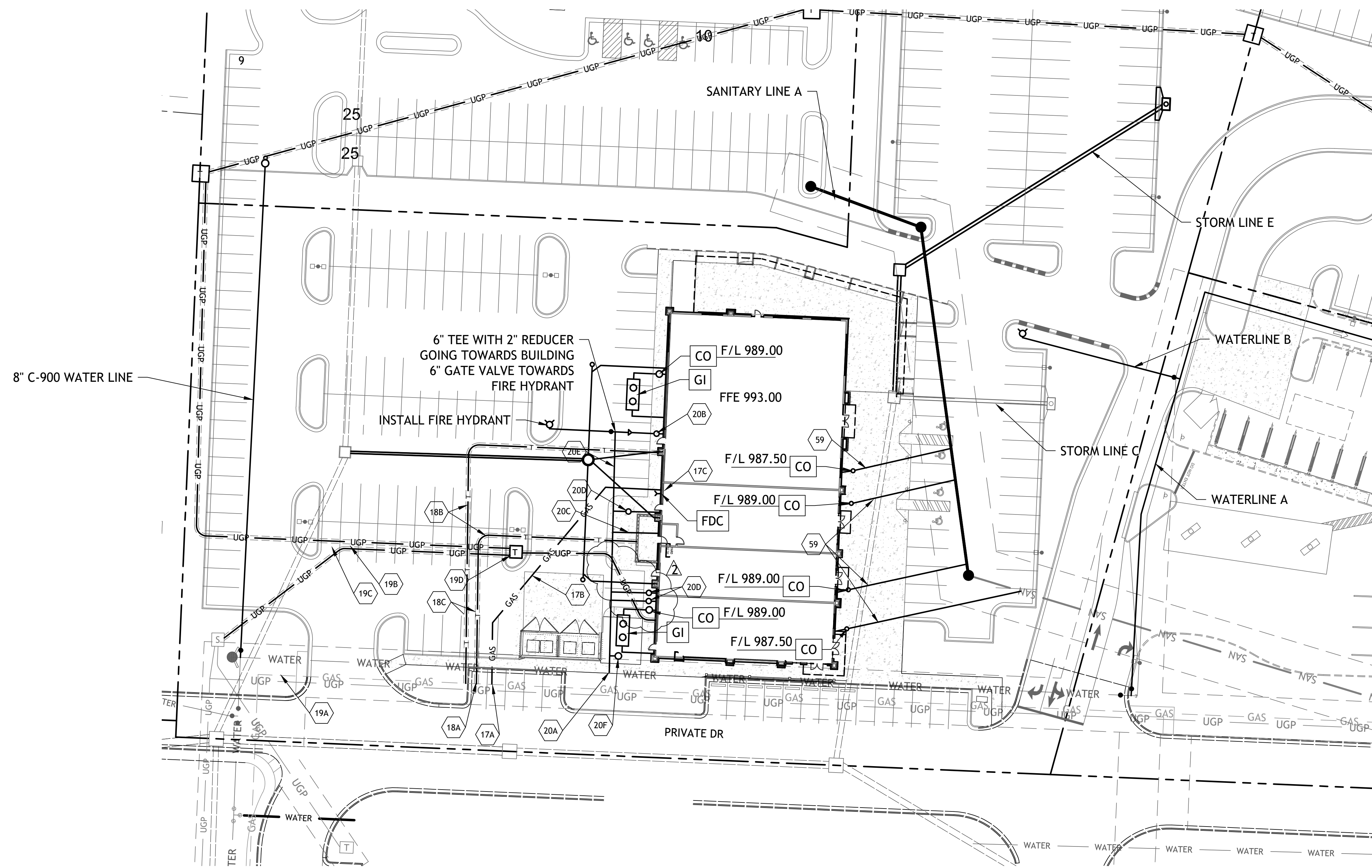
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 - 9-11-24 PER CLIENT
 - 9-25-24 CITY COMMENTS
 - 10-23-24 PER CLIENT
 - 10-24-24 PER CLIENT

UTILITY NOTES:

1. ALL UTILITY AND STORM SEWER TRENCHES CONSTRUCTED UNDER AREAS THAT RECEIVE PAVING SHALL BE BACKFILLED TO 18 INCHES ABOVE THE TOP OF THE PIPE WITH SELECT GRANULAR MATERIAL PLACED ON EIGHT-INCH LIFTS, AND COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
2. 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 CONSEQUENCE OF ANY SCHEDULED OR UNSCHEDULED DISRUPTIONS OF SERVICE TO THE PUBLIC ARE TO BE THE LIABILITY OF THE CONTRACTOR. SM ENGINEERING AND OWNER ARE TO BE HELD HARMLESS.
3. ALL WATER AND SANITARY SEWER SYSTEMS THAT ARE TO BE PUBLIC LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH SPECIFICATIONS PREVIOUSLY APPROVED BY THE CITY OF LEE'S SUMMIT AND THE STATE OF MISSOURI AND SHALL BE INSPECTED BY THE CITY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASSURE THAT THIS INSPECTION OCCURS.
4. LOCATIONS SHOWN FOR PROPOSED WATER LINES ARE APPROXIMATE. VARIATIONS MAY BE MADE, WITH APPROVAL OF THE ENGINEER, TO AVOID CONFLICTS.
5. CONTRACTOR TO INSTALL TRACING TAPE ALONG ALL NON-METALLIC WATER MAINS AND SERVICE LINES PER SPECIFICATIONS.
6. CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICT AND POINTS OF CONNECTION PRIOR TO ANY CONSTRUCTION OF NEW UTILITIES.
7. WATER LINES SHALL HAVE A MINIMUM COVER OF 42 INCHES. ALL VALVES ON MAINS AND FIRE HYDRANT LEADS SHALL BE WITH VALVE BOX ASSEMBLIES. THE SIZE OF VALVE BOX ASSEMBLY TO BE INSTALLED IS DETERMINED BY THE TYPE AND SIZE OF VALVE. VALVE BOX CAPS SHALL HAVE THE WORD "WATER".
8. A MINIMUM HORIZONTAL DISTANCE OF 10 FEET SHALL BE MAINTAINED BETWEEN PARALLEL WATER AND SANITARY SEWER LINES. WHEN IT IS NECESSARY FOR ANY WATER LINE TO CROSS A SANITARY SEWER LINE, THE SEWER LINE SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE AT LEAST 10 FEET EITHER SIDE OF THE WATER LINE UNLESS THE WATER LINE IS AT LEAST 2 FEET CLEAR DISTANCE ABOVE THE SANITARY SEWER LINE.
9. INSTALL 2" TYPE "K" COPPER FROM THE MAIN TO 10' BEYOND METER AND EITHER TYPE "K" OR POLYETHYLENE PLASTIC TUBING (PE 3608) TO STOP AND WASTE VALVE INSIDE BUILDING.
10. CONTRACTOR RESPONSIBLE FOR PROVIDING CASEMENT FOR ELECTRICAL SERVICE PER KCPL&L
11. SANITARY SEWER SERVICE CONNECTIONS WILL BE MADE WITH A CUT IN WYE



NOTES

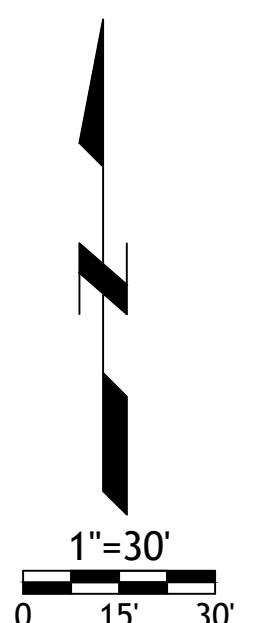
- 17A POINT OF CONNECTION - GAS SERVICE
- 17B GAS SERVICE (BY GAS COMPANY)
- 17C GAS METER
- 18A POINT OF CONNECTION - TELEPHONE SERVICE - COORDINATE WITH TELEPHONE COMPANY
- 18B UNDERGROUND TELEPHONE SERVICE PER LOCAL TELEPHONE COMPANY
- 18C 2-2" CONDUITS INSTALLED BY CONTRACTOR - TELEPHONE SERVICE
- 19A POINT OF CONNECTION - ELECTRICAL SERVICE
- 19C 4" CONDUIT WITH STEEL SWEEPS INSTALLED BY CONTRACTOR - ELECTRIC SERVICE
- 19D TRANSFORMER PAD
- 20A POINT OF CONNECTION - WATER SERVICE
- 20B 2" TAP AND METER WITH 2" SERVICE LINE
- 20C 6" FIRE LINE
- 20D 1" TAP AND METER WITH 1"
- 20E 6" C-900 WATERLINE
- 59 4" SANITARY SEWER SERVICE LINE
- 20F 1" TAP AND METER WITH 1" SERVICE LINE FOR IRRIGATION

DETAILS

- MS1 TRENCH AND BEDDING DETAILS
- SS2 2-WAY CLEAN-OUT
- FH FIRE HYDRANT
- CO CLEANOUT
- GI GREASE INTERCEPTOR (1,500 GAL)

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LOT 13A OF WEST PRYOR
 LEE'S SUMMIT, MISSOURI

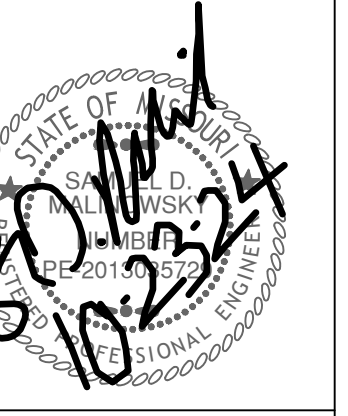
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C4.0

Civil
UTILITY PLAN

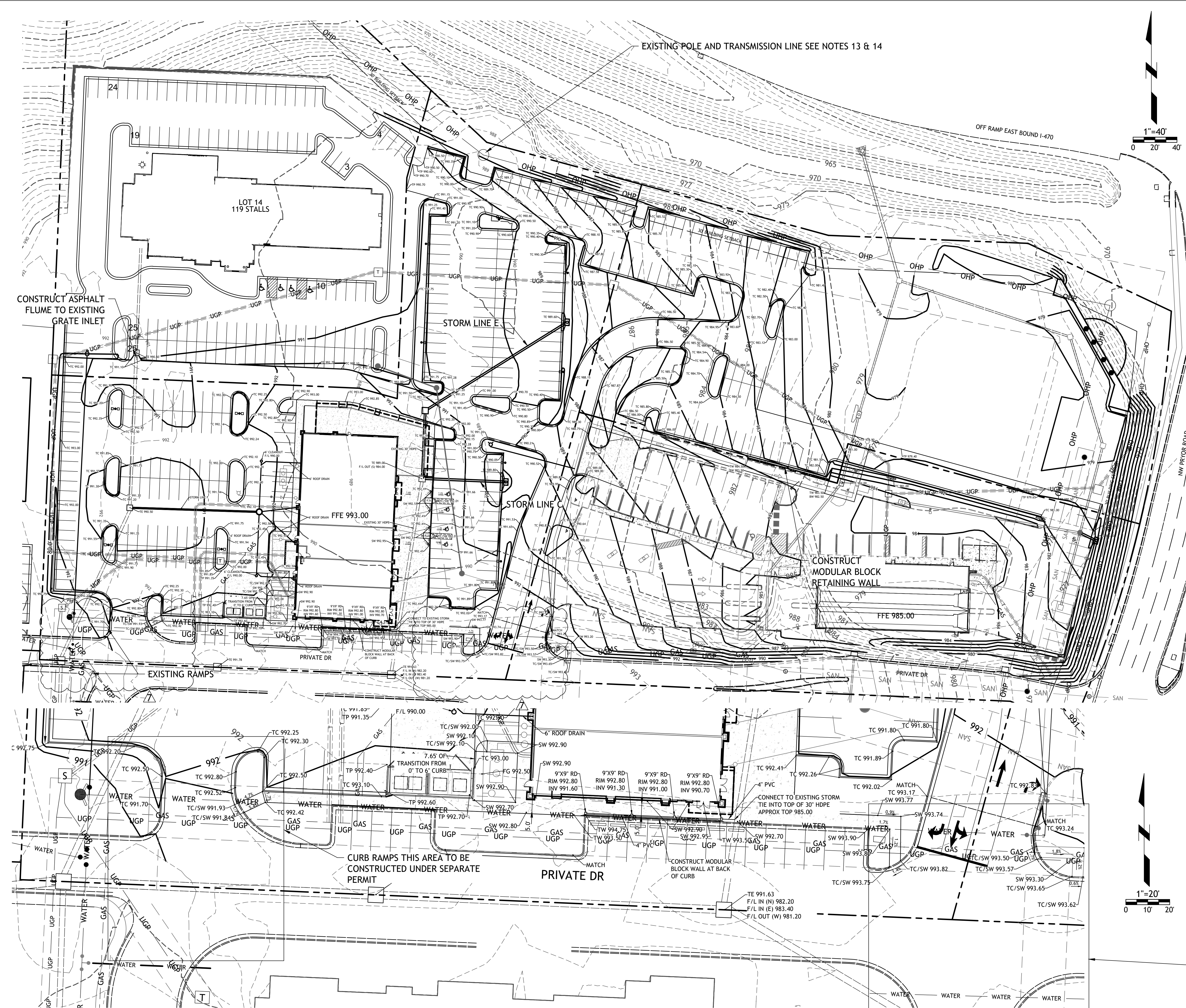
permit
19 OCTOBER 2023

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10-23-24 PER CLIENT
10-24-24 PER CLIENT



- GRADING NOTES:**
- EARTHWORK UNDER THE BUILDING SHALL COMPLY WITH THE PROJECT ARCHITECTURAL PLANS. OTHER FILL MATERIAL SHALL BE MADE IN LIFTS NOT TO EXCEED EIGHT INCHES DEPTH COMPACTED TO 95% STANDARD PROCTOR DENSITY. FILL MATERIAL MAY INCLUDE ROCK FROM ON-SITE EXCAVATION IF CAREFULLY PLACED SO THAT LARGE STONES ARE WELL DISTRIBUTED AND VOIDS ARE COMPLETELY FILLED WITH SMALLER STONES, EARTH, SAND OR GRAVEL TO FURNISH A SOLID EMBANKMENT. NO ROCK LARGER THAN THREE INCHES IN ANY DIMENSION NOR ANY SHALE SHALL BE PLACED IN THE TOP 12 INCHES OF EMBANKMENT.
 - AREAS THAT ARE TO BE CUT TO SUBGRADE LEVELS SHALL BE PROOF ROLLED WITH A MODERATELY HEAVY LOADED DUMP TRUCK OR SIMILAR APPROVED CONSTRUCTION EQUIPMENT TO DETECT UNSUITABLE SOIL CONDITIONS.
 - IN ALL AREAS OF EXCAVATION, IF UNSUITABLE SOIL CONDITIONS ARE ENCOUNTERED. A QUALIFIED GEOTECHNICAL ENGINEER SHALL RECOMMEND TO THE OWNER THE METHODS OF UNDERCUTTING AND REPLACEMENT OF PROPERLY COMPACTED, APPROVED FILL MATERIAL. ALL PROOF ROLLING AND UNDERCUTTING SHOULD BE PERFORMED DURING A PERIOD OF DRY WEATHER.
 - CONTRACTOR SHALL USE SILT FENCE OR OTHER MEANS OF CONTROLLING EROSION ALONG THE EDGE OF THE PROPERTY OR OTHER BOTTOM OF SLOPE LOCATIONS.
 - CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS.
 - THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
 - IT IS NOT THE DUTY OF THE ENGINEER OR THE OWNER TO REVIEW THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE AT ANY TIME DURING CONSTRUCTION.
 - PIPE LENGTHS ARE CENTER TO CENTER OF STRUCTURE OR TO END OF END SECTIONS.
 - HANDICAP STALLS SHALL MEET ADA REQUIREMENTS AND SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION AT THE BUILDING ENTRY AND ACCESSIBLE PARKING STALLS. SLOPES EXCEEDING 2.0% WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
 - ALL CONSTRUCTION TRAFFIC, TEMPORARY TRAFFIC CONTROL DEVICES AND PAVEMENT MARKINGS SHALL CONFORM TO REQUIREMENTS OF THE LATEST MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
 - CONTRACTOR TO PLACE 8" LOW PERMEABILITY LVC FOR BUILDING PAD
 - CONTRACTOR TO CONSTRUCT THROATS TO CURB INLETS.
 - NO HEAVY EQUIPMENT ALLOWED WITHIN 5' OF EXISTING POLE FOUNDATION TOP OF FOUNDATION SHALL REMAIN 2' ABOVE EXISTING GROUND UPON COMPLETION OF CONSTRUCTION.
 - AT NO TIME SHALL CONSTRUCTION EQUIPMENT BE ALLOWED WITH 20' OF ANY PART OF THE TRANSMISSION LINE.

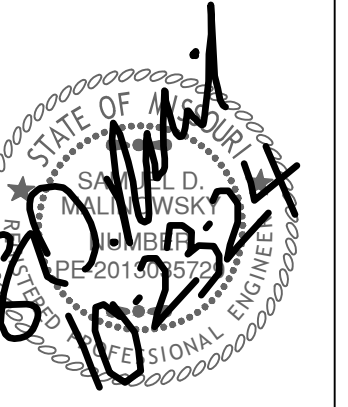
NOTE
ANY GRADING SHOWN ON LOT 11 OTHER THAN WHAT IS REQUIRED FOR THE ACCESS DRIVES INDICATED ON THE SITE PLAN IS SHOWN FOR INFORMATION ONLY AND IS NOT PART OF THESE PLANS.

RD ROOF DRAIN (JOSAM 23760 ROOF DRAIN WITH 4" OUTLET OR APPROVED EQUAL.

CURB RAMPS THIS AREA TO BE CONSTRUCTED UNDER SEPARATE PERMIT

LOT 13A OF WEST PRYOR
 LEE'S SUMMIT, MISSOURI

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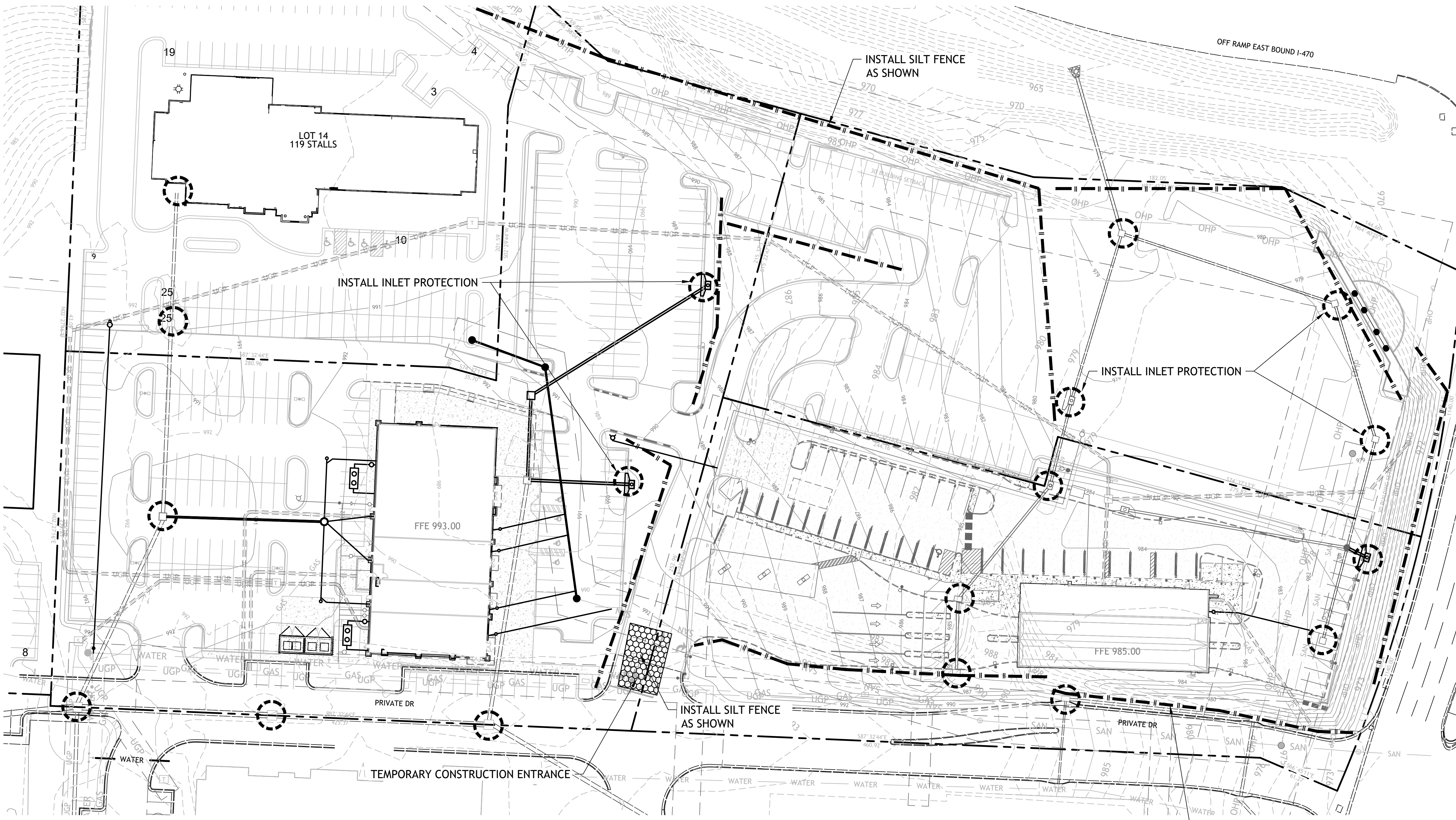


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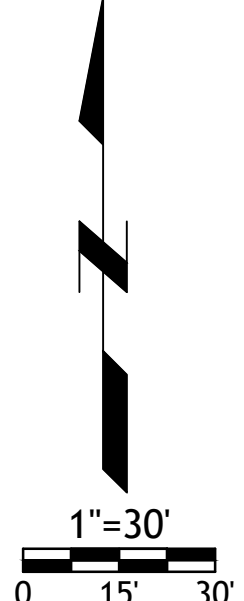
LOT 13A OF
WEST PRYOR
LEES SUMMIT, MISSOURI

- NOTES:
- Prior to Land Disturbance activities, the following shall occur:
 - Identify the limits of construction on the ground with easily recognizable indications such as construction staking, construction fencing and placement of physical barriers or other means acceptable to the City Inspector and in conformance with the erosion and pollution control plan;
 - Construct a stabilized entrance/parking/staging area;
 - Install perimeter controls and protect any existing stormwater inlets;
 - Request an initial inspection of the installed Phase I pollution control measures designated on the approved erosion and pollution control plan. Land disturbance work shall not proceed until there is a passed inspection MoDNR general requirements
 - The site shall comply with all requirements of the MoDNR general requirements
 - Immediate initiation of temporary stabilization BMPs on disturbed areas where construction activities have temporarily ceased on that portion of the project site if construction activities will not resume for a period exceeding 14 calendar days. Temporary stabilization may include establishment of vegetation, geotextiles, mulches or other techniques to reduce or eliminate erosion until either final stabilization can be achieved or until further construction activities take place to re-disturb the area. This stabilization must be completed within 14 calendar days;
 - Inspection of erosion and sediment control measures shall be performed to meet or exceed the minimum inspection frequency in the MoDNR General Permit. At a minimum, inspections shall be performed during all phases of construction at least once every 14 days and within 24 hours of each precipitation event.
 - An inspection log shall be maintained and shall be available for review by the regulatory authority;
 - The erosion and pollution control plan shall be routinely updated to show all modifications and amendments to the original plan. A copy of the erosion and pollution control plan shall be kept on site and made available for review by the regulatory authority.
 - Temporary seeding shall only be used for periods not to exceed 12 months. For final stabilization, temporary seeding shall only be used to establish vegetation outside the permanent seeding or sodding dates as specified in the Standard Specifications. Final stabilization requires a uniform perennial vegetative cover with a density of 70% over 100% of disturbed area.
 - Erosion and pollution control shall be provided for the duration of a project. All installed erosion and pollution control BMPs shall be maintained in a manner that preserves their effectiveness. If the City determines that the BMPs in place do not provide adequate erosion and pollution control at any time during the project, additional or alternate measures that provide effective control shall be required.
 - Concrete wash or rinse water from concrete mixing equipment. Tools and/or ready-mix trucks, etc. may not be discharged into or be allowed to run to any existing water body or portion of the storm water system. One or more locations for concrete washout will be designated on site, such that discharges during concrete washout will be contained in a small area where waste concrete can solidify in place. Proper signage will be installed to direct users to the concrete washout. Concrete washouts must be handled prior to pouring any concrete.
 - Silt fences and sediment control BMPs which are shown along the back of curb must be installed within two weeks of curb backfill and prior to placement of base asphalt. Exact locations of these erosion control methods may be field adjusted to minimize conflicts with utility construction. However, anticipated disturbance by utility construction shall not delay installation.
 - Required sediment basins and traps shall be installed as early as possible during mass grading. Sediment basins and traps shall be cleaned out when the sediment capacity has been reduced by 20% of its original design volume.
 - All manufactured BMPs such as erosion control blankets, TRMs, biodegradable logs, filter socks, synthetic sediment barriers and hydraulic erosion control shall be installed as directed by the manufacturer.
 - The above requirements are the responsibility of the permittee for the site. Responsibility may be transferred to another party by the permittee, but the permittee shall remain liable by the City of Lees Summit if any of the above conditions are not met.

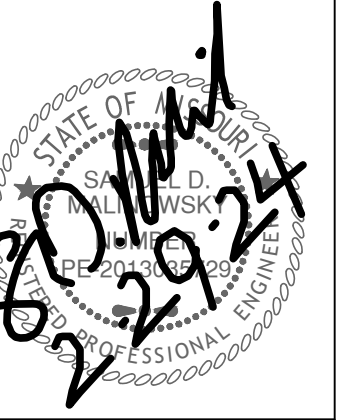


LEGEND

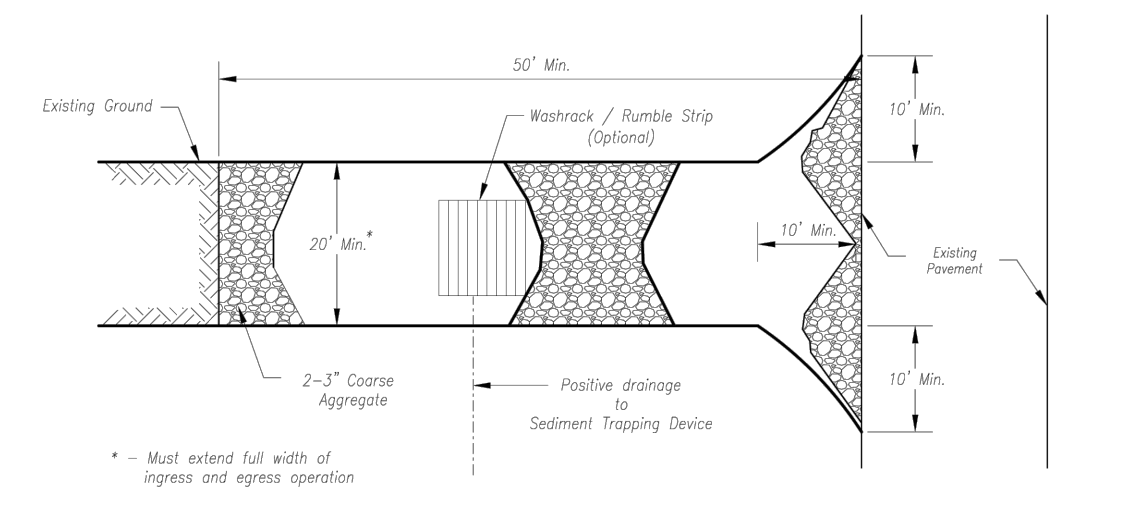
- SILT FENCE
- INLET PROTECTION
- TEMPORARY CONSTRUCTION ENTRANCE



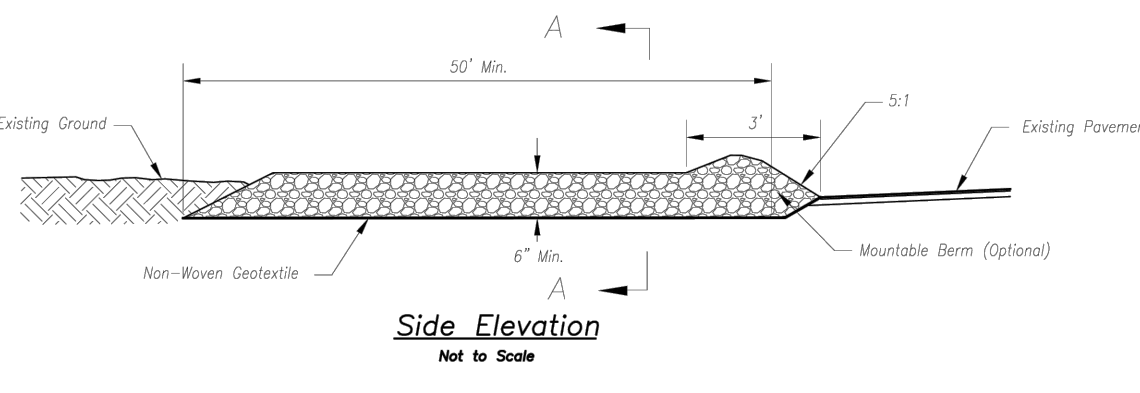
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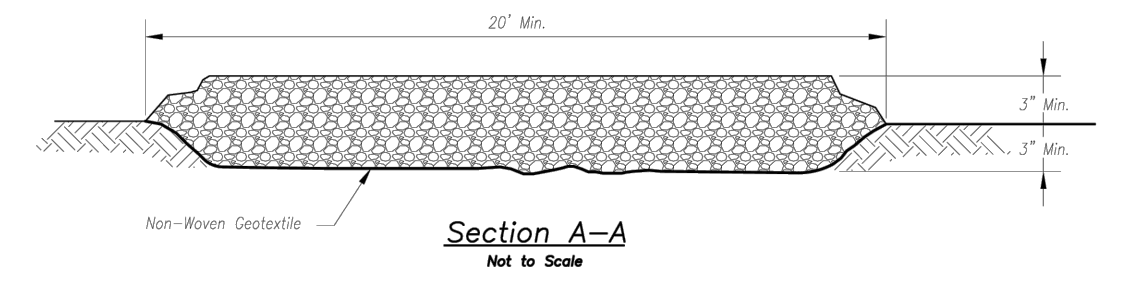
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2-29-24 PER CLIENT



Plan View
Not to Scale



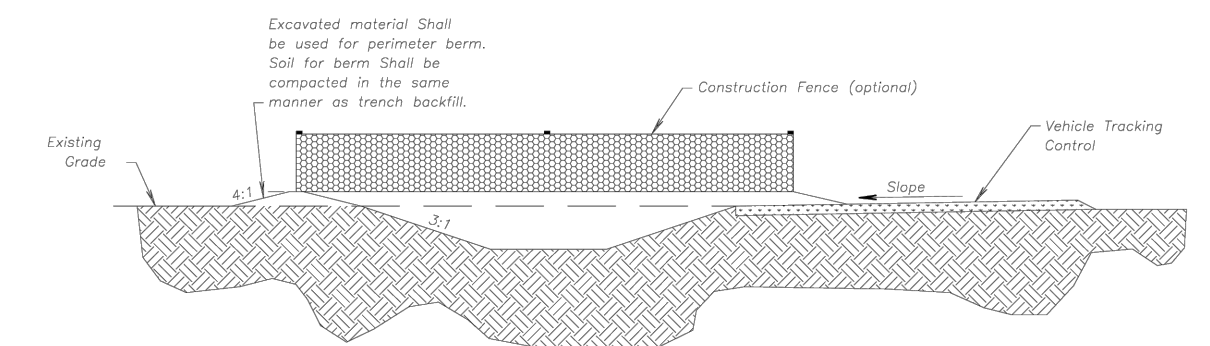
Side Elevation
Not to Scale



Section A-A
Not to Scale

- Notes for Concrete Washout:**
- Concrete washout areas shall be installed prior to any concrete placement on site.
 - Concrete washout areas shall include a flat substrate pit sized relative to the amount of concrete to be placed on site. The slopes leading out of the substrate pit shall be 5:1. The vehicle tracking pad shall be sloped towards the concrete washout area.
 - Vehicle tracking control is required at the access point to all concrete washout areas.
 - Signs shall be placed at the construction site entrance, washout area and elsewhere as necessary to clearly indicate the location(s) of the concrete washout area(s) to operators of concrete trucks and pump rigs.
 - A one-way impervious liner may be required along the bottom and sides of the substrate pit in sandy or gravelly soils.

- Maintenance for Concrete Washout:**
- Concrete washout materials shall be removed once the materials have filled the washout to approximately 75% full.
 - Concrete washout areas shall be enlarged as necessary to maintain capacity for washed concrete.
 - Concrete washout water, washed pieces of concrete and all other debris in the substrate pit shall be transported from the job site in a water-tight container and disposed of properly.
 - Concrete washout areas shall remain in place until all concrete for the project is placed.
 - When concrete washout areas are removed, excavations shall be filled with suitable compacted backfill and basins, any disturbed areas associated with the installation, maintenance, and/or removal of the concrete washout areas shall be stabilized.



CONCRETE WASHOUT

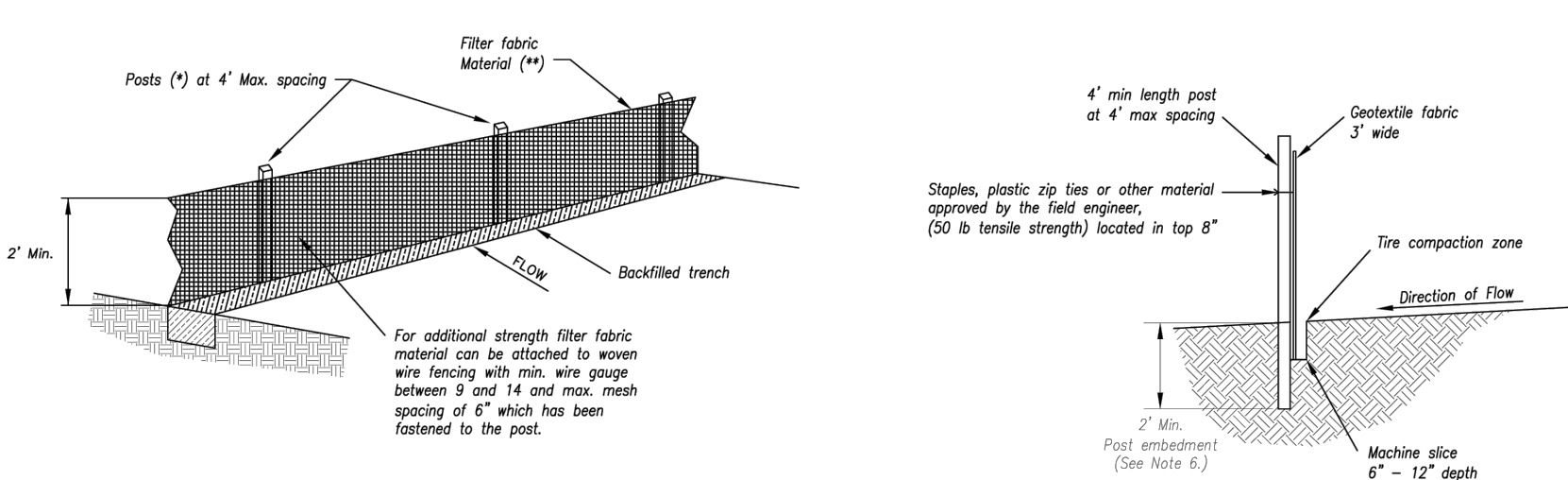
- Notes for Construction Entrance:**
- Avoid locating on steep slopes, at curves on public roads, or adjacent to disturbed areas.
 - Remove all vegetation and other unsuitable material from the foundation area, grade, and crown for positive drainage.
 - If slope towards the public road exceeds 2%, construct a 6" to 8-inch high ridge with 3:1 side slopes across the foundation approximately 15 feet from the edge of the public road to divert runoff from it.
 - Install pipe under the entrance if needed to maintain drainage ditches along public roads.
 - Place stone to dimensions and grade as shown on plans. Leave surface sloped for drainage.
 - Divert all surface runoff and drainage from the entrance to a sediment control device.
 - If conditions warrant, place geotextile fabric on the graded foundation to improve stability.

- Maintenance for Construction Entrance:**
- Reshape entrance as needed to maintain function and integrity of installation. Top areas with clean aggregate as needed.

CONSTRUCTION ENTRANCE

Construction Entrance modified from 2015 Overland Park Standard Details for Erosion and Sediment Control; Concrete Washout modified from 2009 City of Great Bend Standard Drawings.

AMERICAN PUBLIC WORKS ASSOCIATION	
KANSAS CITY METRO CHAPTER	
CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT	STANDARD DRAWING NUMBER ESC-01 ADOPTED: 10/24/2016



- (*) EODSIS**
- MIN. LENGTH 4'
 - HARDWOOD 1 1/2" x 1 R₄"
 - NO.2 SOUTHERN PINE 2 1/2" x 2 1/2"
 - STEEL 1.33 LB/FT

(**) Geotextile Fabric shall meet the requirements of ASTM D 2888

SILT FENCE DETAILS
Not to Scale

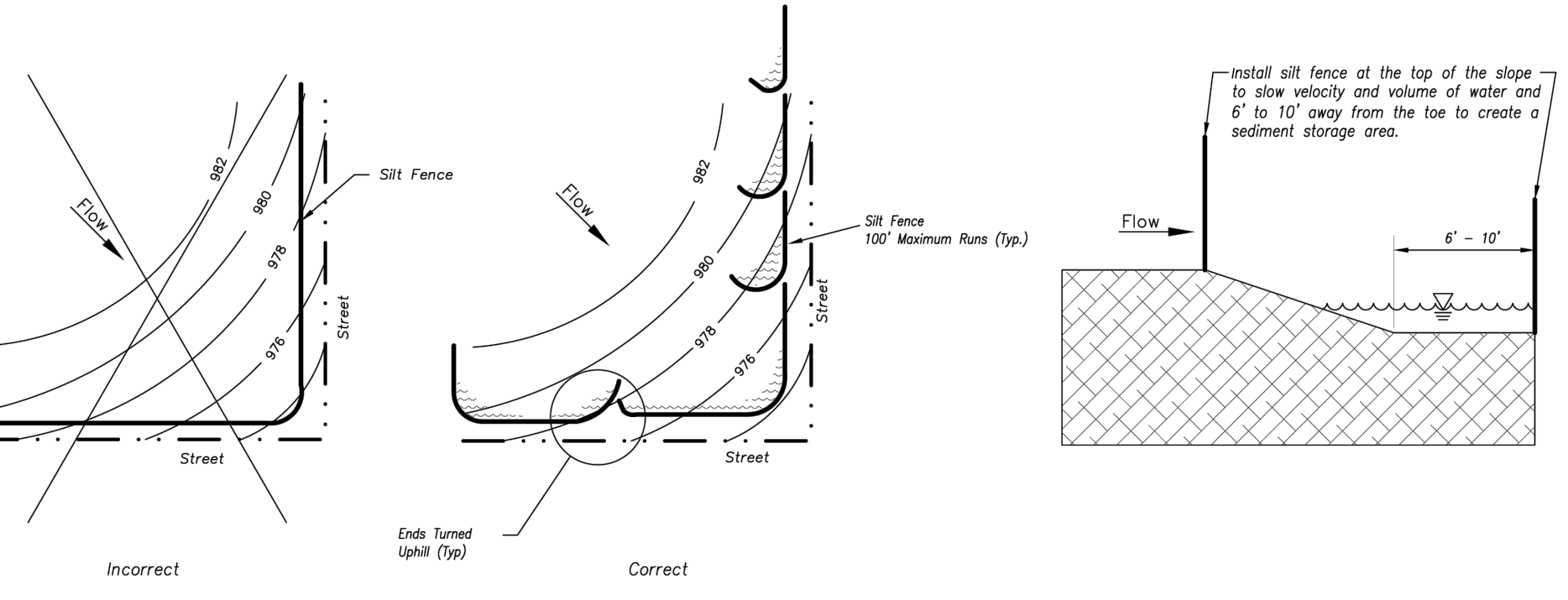
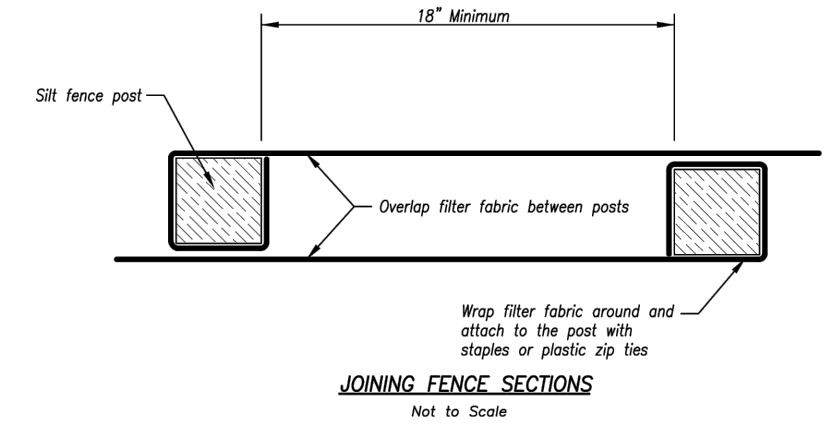


Figure A

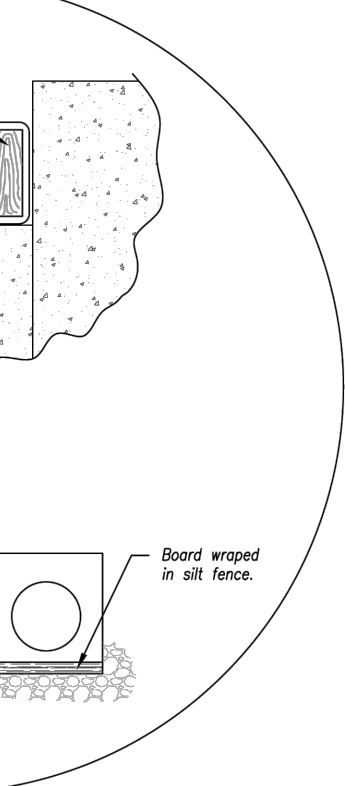
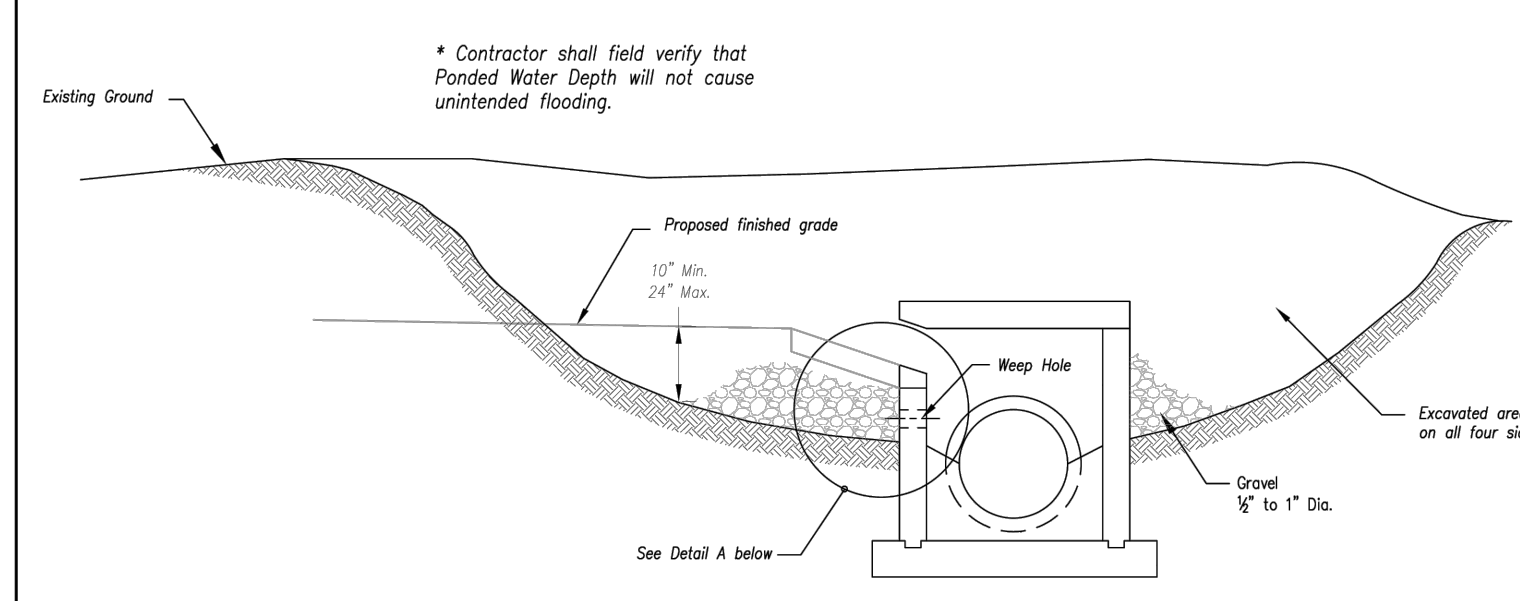
SILT FENCE LAYOUT
Not to Scale



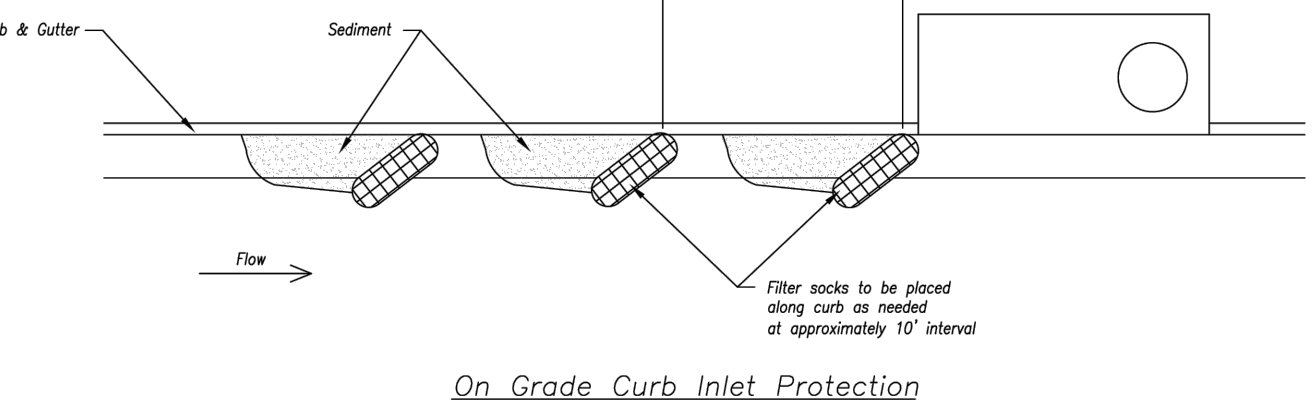
JOINING FENCE SECTIONS
Not to Scale

AMERICAN PUBLIC WORKS ASSOCIATION	
KANSAS CITY METRO CHAPTER	
SILT FENCE	STANDARD DRAWING NUMBER ESC-03 ADOPTED: 10/24/2016

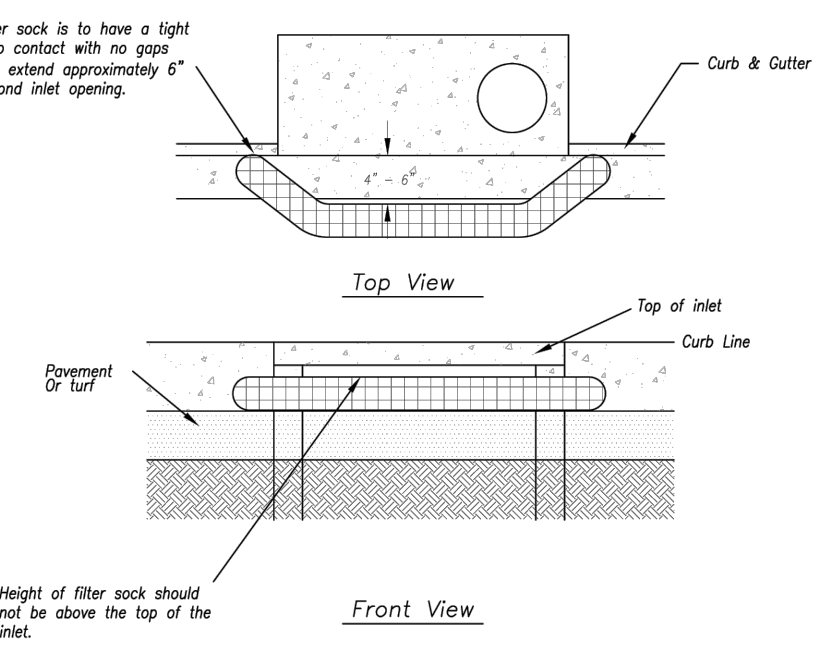
Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.



EARLY STAGE CURB INLET
(Open Box and Prior to Pouring Curb and Inlet Throat)



On Grade Curb Inlet Protection



Sump Inlet Sediment Filter

LATE STAGE CURB INLET
(After Pouring Curb and Inlet Throat)

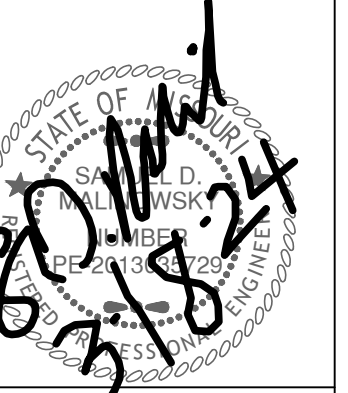
- Notes:**
- Immediately following inlet construction and prior to construction of curb and inlet throat, protect inlet opening by installing 2" x 10" (min) board wrapped in silt fence. Structures shall have excavated storage area on all four sides to allow setting of sediment (Early Stage Curb Inlet).
 - When inlet is completed and curb poured, filter socks or approved equal should be used (Late Stage Curb Inlet). Stone weirs are not approved for curb inlet use.
 - Contractor to field verify ponding water shall not create a traffic hazard.
- Maintenance:**
- Remove deposited sediment from excavated storage areas when available storage has been reduced by 50%.
 - Remove deposited sediment from filter socks or similar when any accumulation of sediment is visible.
 - Repair or replace as necessary to maintain function and integrity of installation.

AMERICAN PUBLIC WORKS ASSOCIATION	
KANSAS CITY METRO CHAPTER	
CURB INLET PROTECTION	STANDARD DRAWING NUMBER ESC-06 ADOPTED: 10/24/2016

Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

LOT 13A OF WEST PRYOR
LEES SUMMIT, MISSOURI

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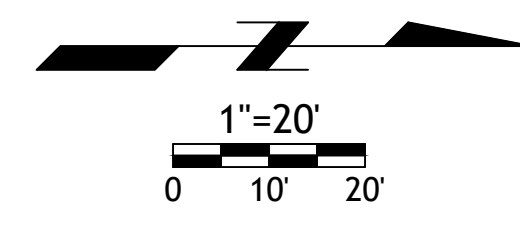
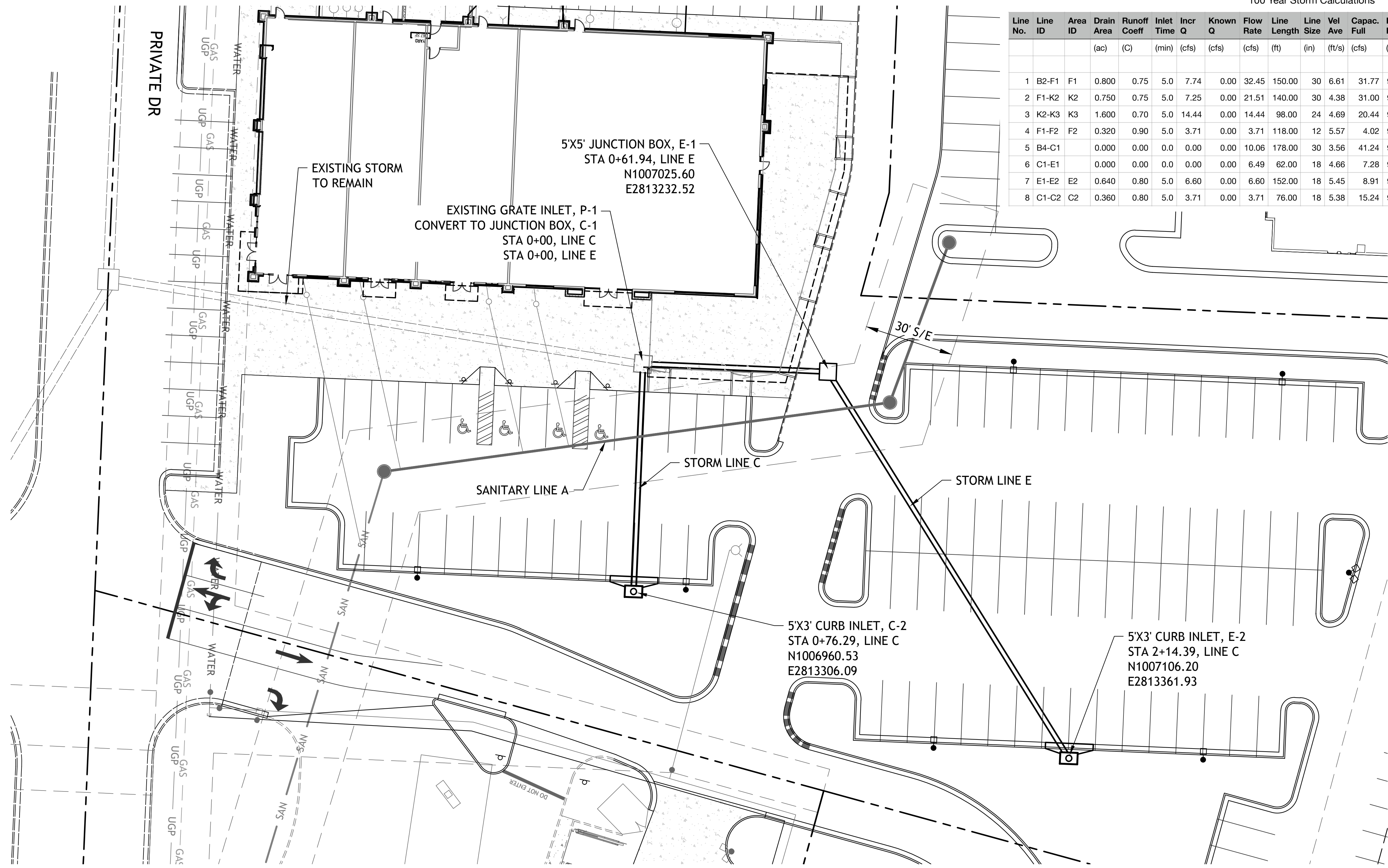


- Revisions
11-29-23 CITY COMMENTS
1-4-24 PER CLIENT
1-16-24 PER EVERGY
2-29-24 PER CLIENT
3-7-24 SECTIONALIZER
3-18-24 PER CLIENT

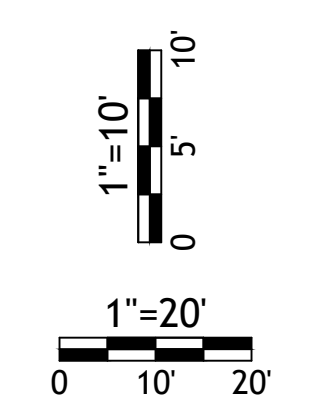
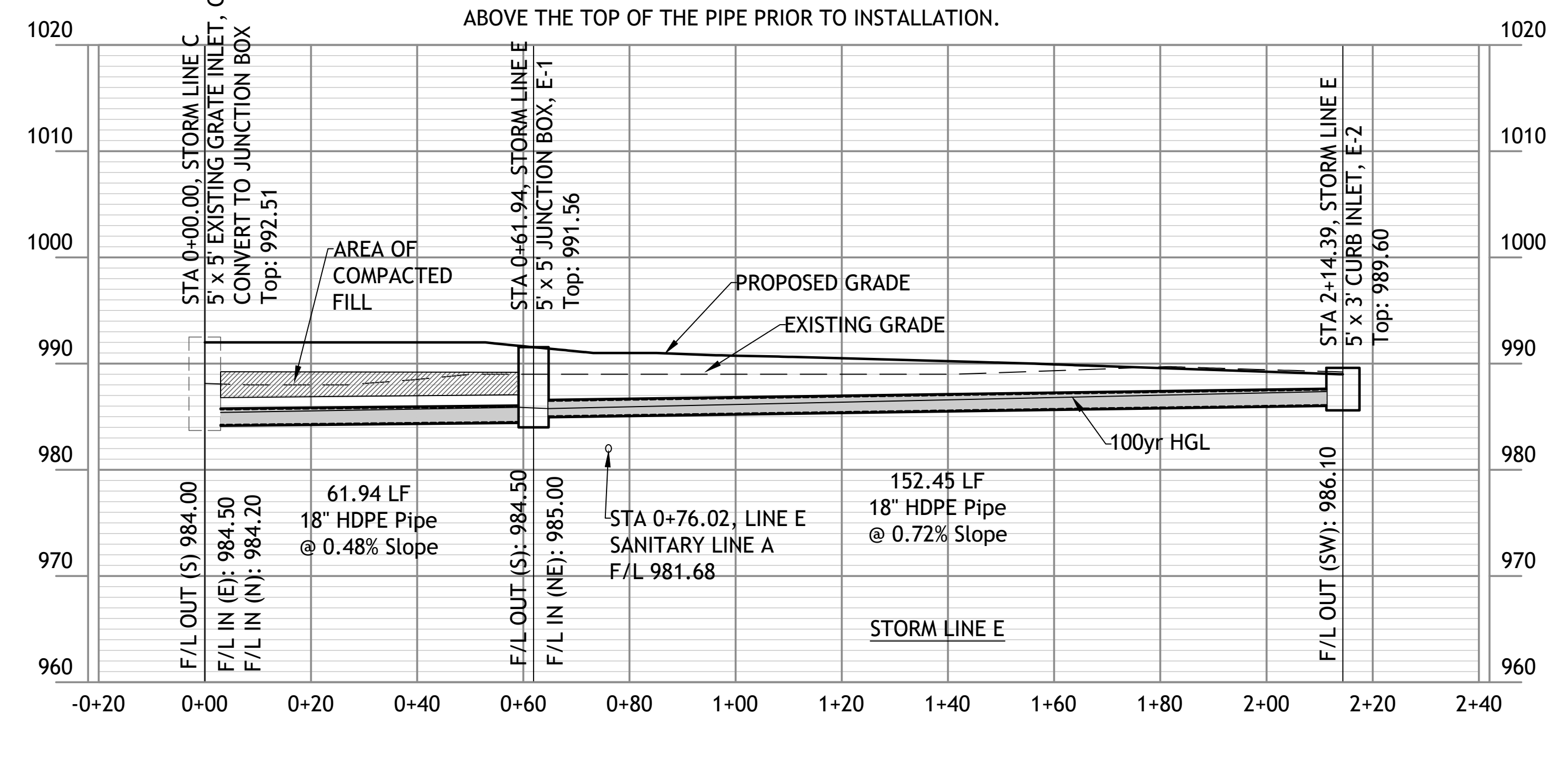
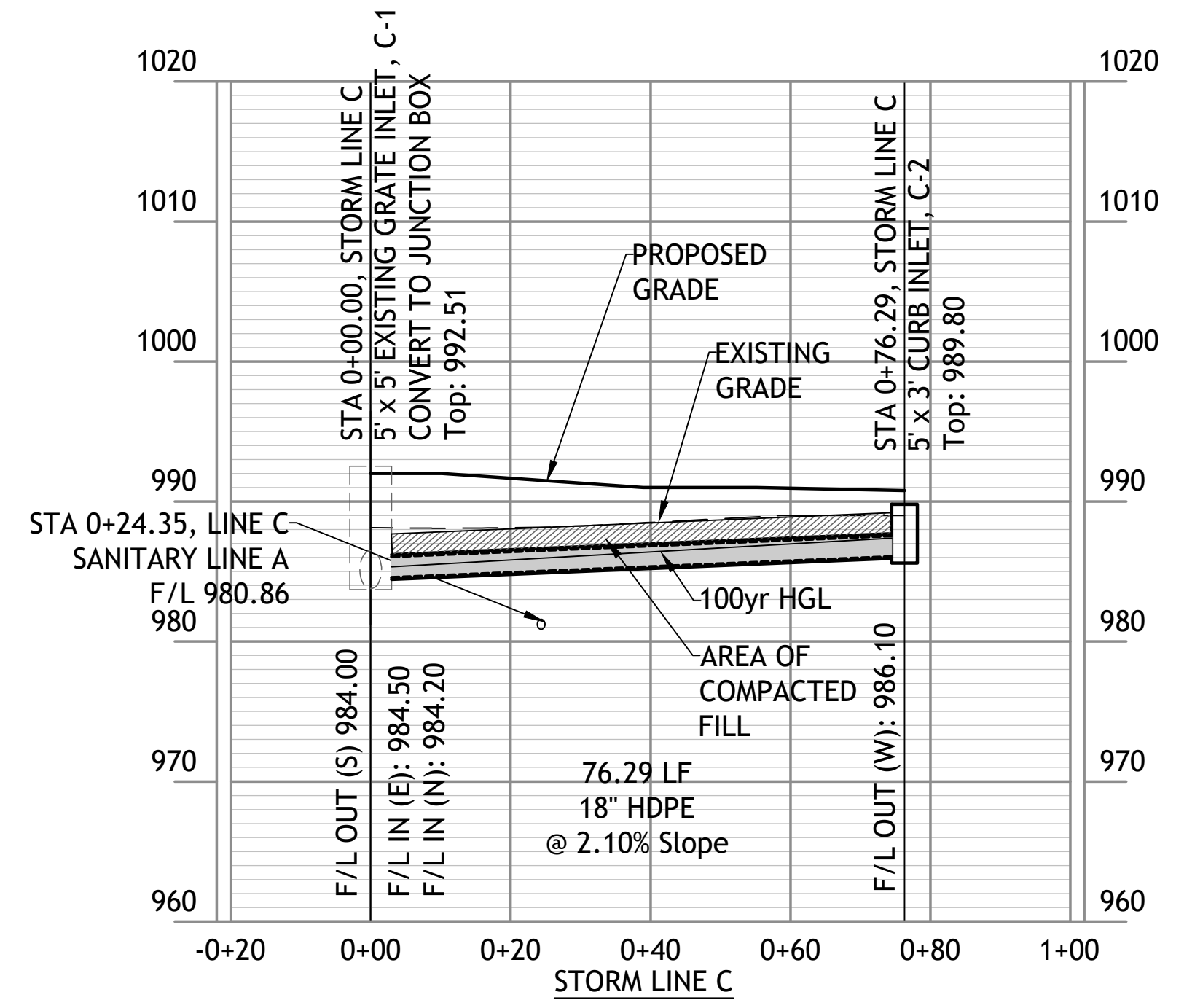
LOT 13A OF
WEST PRYOR
LEES SUMMIT, MISSOURI

100 Year Storm Calculations

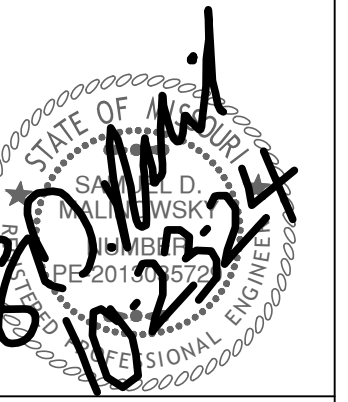
Line No.	Line ID	Area ID	Drain Area (ac)	Runoff Coeff (C)	Inlet Time (min)	Incr Q (cfs)	Known Q (cfs)	Flow Rate (cfs)	Line Length (ft)	Line Size (in)	Vel Ave (ft/s)	Capac. Full (cfs)	Invert Dn (ft)	Invert Up (ft)	Line Slope (%)	Grnd/Rim Elev Up (ft)	HGL Dn (ft)	HGL Up (ft)	HGL Junct (ft)
1	B2-F1	F1	0.800	0.75	5.0	7.74	0.00	32.45	150.00	30	6.61	31.77	980.20	981.10	0.60	990.50	982.70	983.59	983.72
2	F1-K2	K2	0.750	0.75	5.0	7.25	0.00	21.51	140.00	30	4.38	31.00	981.30	982.10	0.57	990.50	984.30	984.69	984.75
3	K2-K3	K3	1.600	0.70	5.0	14.44	0.00	14.44	98.00	24	4.69	20.44	982.60	983.40	0.82	990.00	984.89	985.24	985.31
4	F1-F2	F2	0.320	0.90	5.0	3.71	0.00	3.71	118.00	12	5.57	4.02	987.00	988.50	1.27	991.80	987.77	989.32	989.32
5	B4-C1		0.000	0.00	0.0	0.00	0.00	10.06	178.00	30	3.56	41.24	982.20	984.00	1.01	992.50	984.70	985.06	985.06
6	C1-E1		0.000	0.00	0.0	0.00	0.00	6.49	62.00	18	4.66	7.28	984.20	984.50	0.48	991.50	985.30	985.60	985.73
7	E1-E2	E2	0.640	0.80	5.0	6.60	0.00	6.60	152.00	18	5.45	8.91	985.00	986.09	0.72	989.00	985.96	987.08	987.08
8	C1-C2	C2	0.360	0.80	5.0	3.71	0.00	3.71	76.00	18	5.38	15.24	984.50	986.10	2.11	989.80	985.04	986.84	986.84



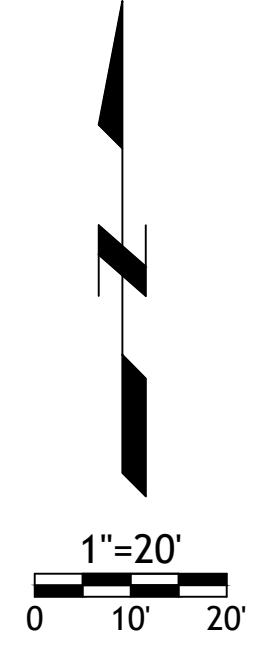
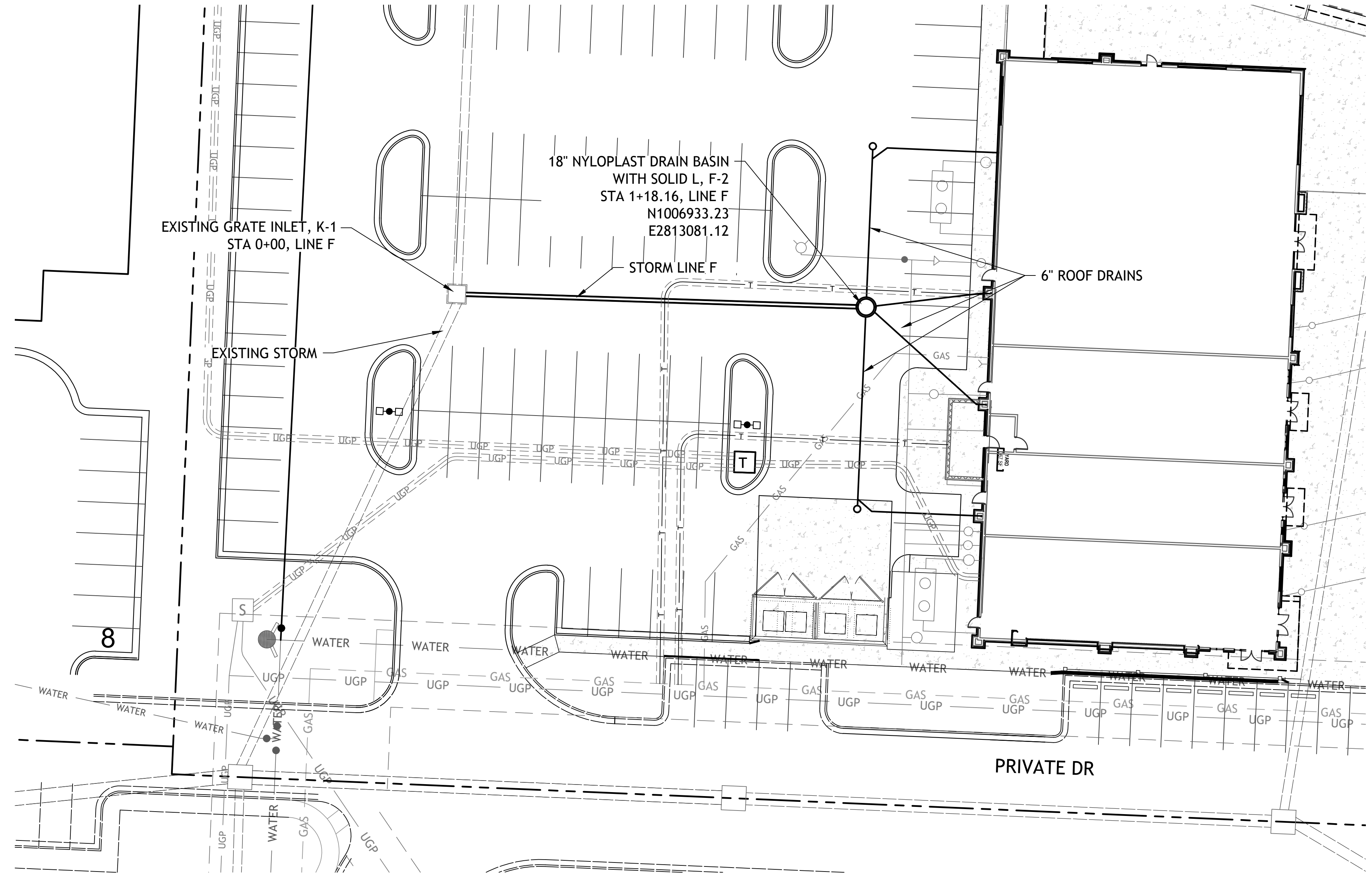
NOTE
COMPACTED FILL SHALL BE PLACED TO A MINIMUM OF 18"
ABOVE THE TOP OF THE PIPE PRIOR TO INSTALLATION.



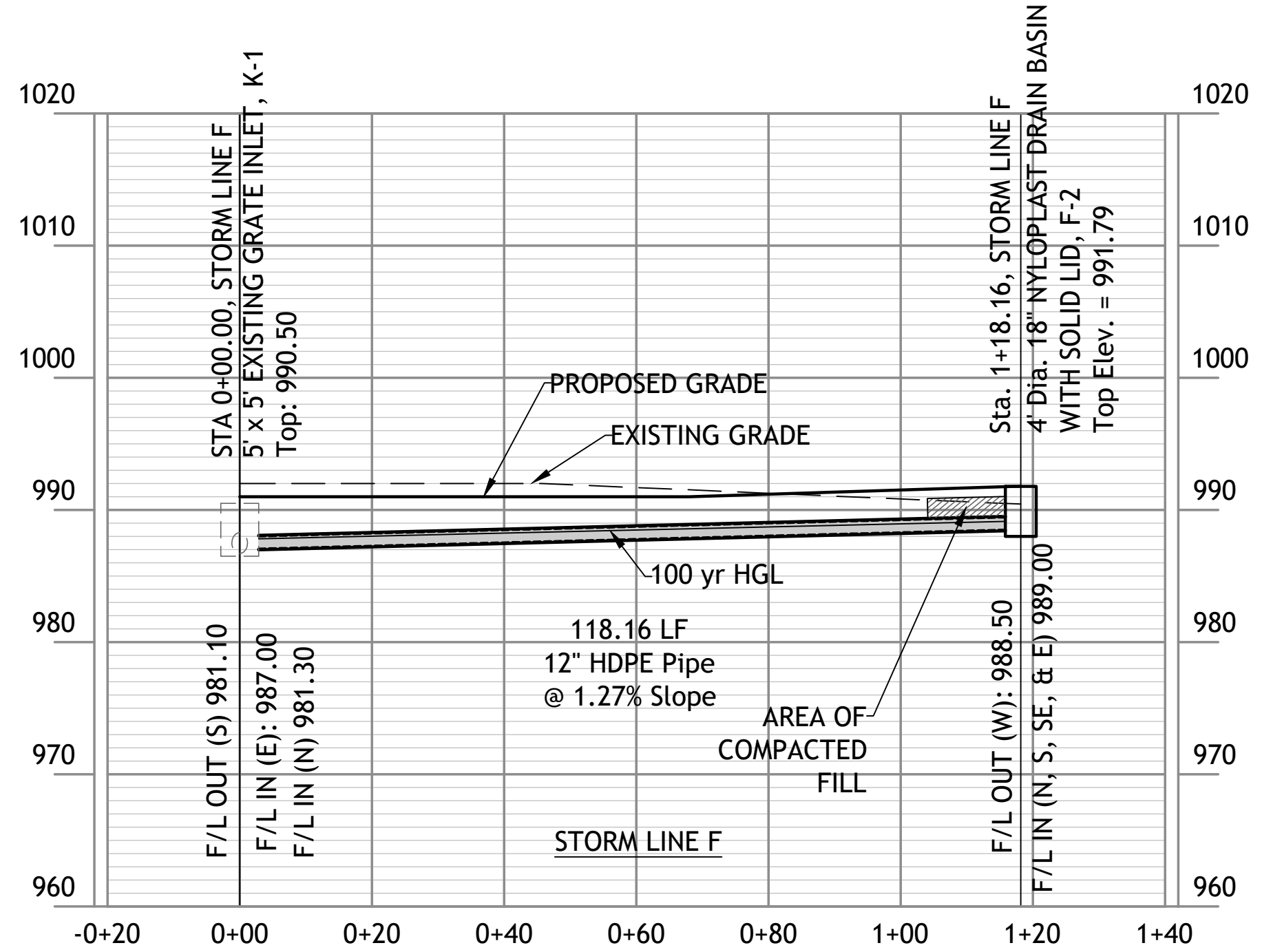
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 - 1-4-24 PER CLIENT
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 - 2-29-24 PER CLIENT
 - 3-7-24 SECTIONALIZER
 - 3-18-24 PER CLIENT
 - 4-1-24 PER CLIENT
 - 8-19-24 PER CLIENT
 - 9-11-24 PER CLIENT
 - 9-25-24 CITY COMMENTS
 - 10-23-24 PER CLIENT

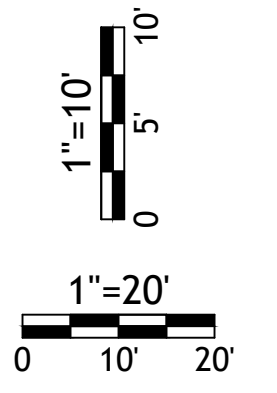


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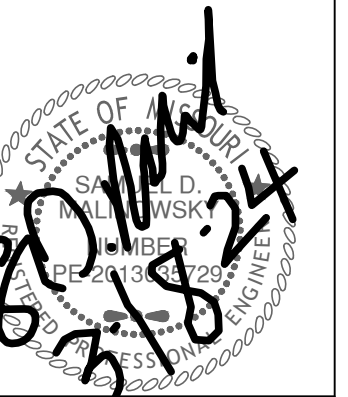
100 Year Storm Calculations

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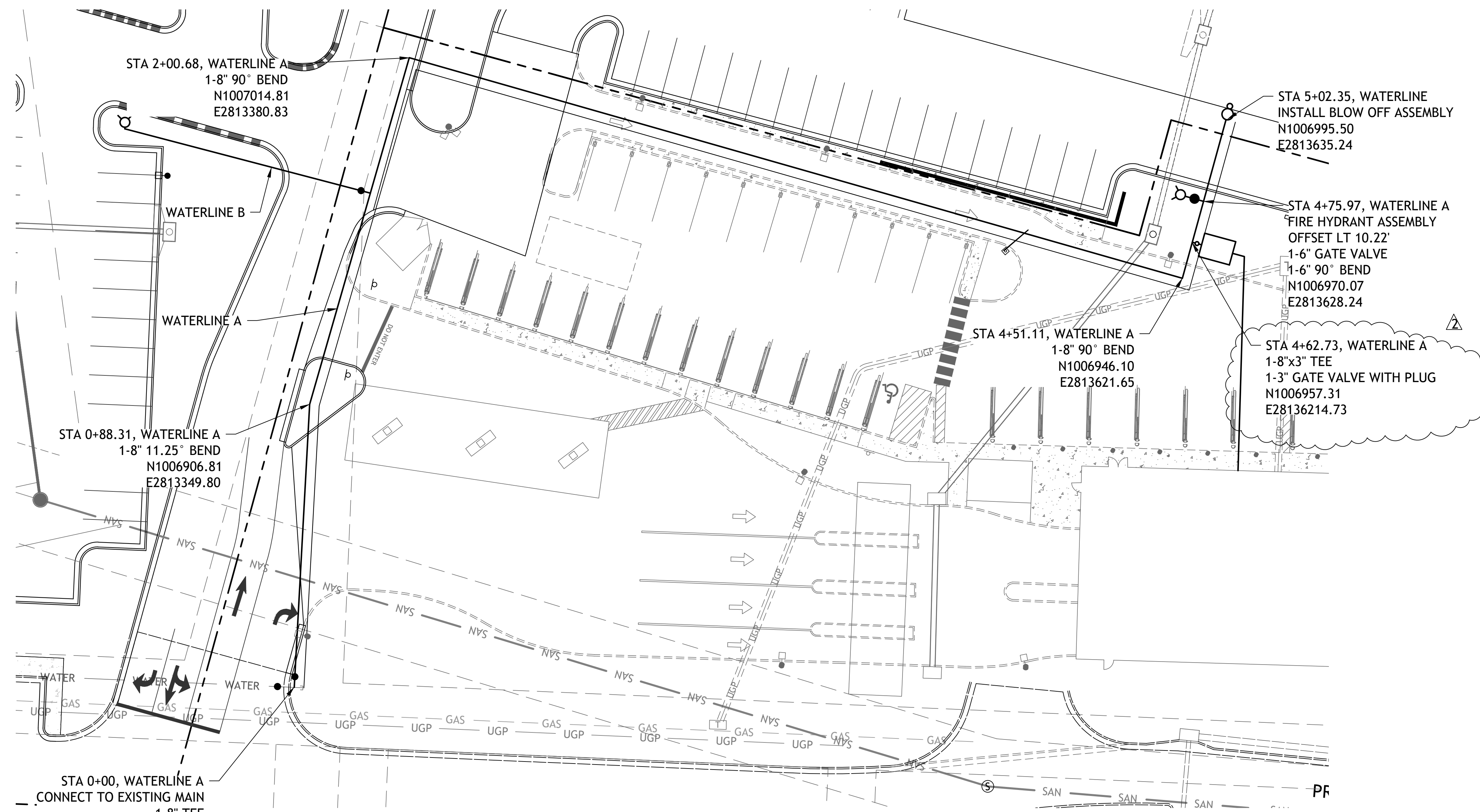


LOT 13A OF WEST PRYOR
 LEES SUMMIT, MISSOURI

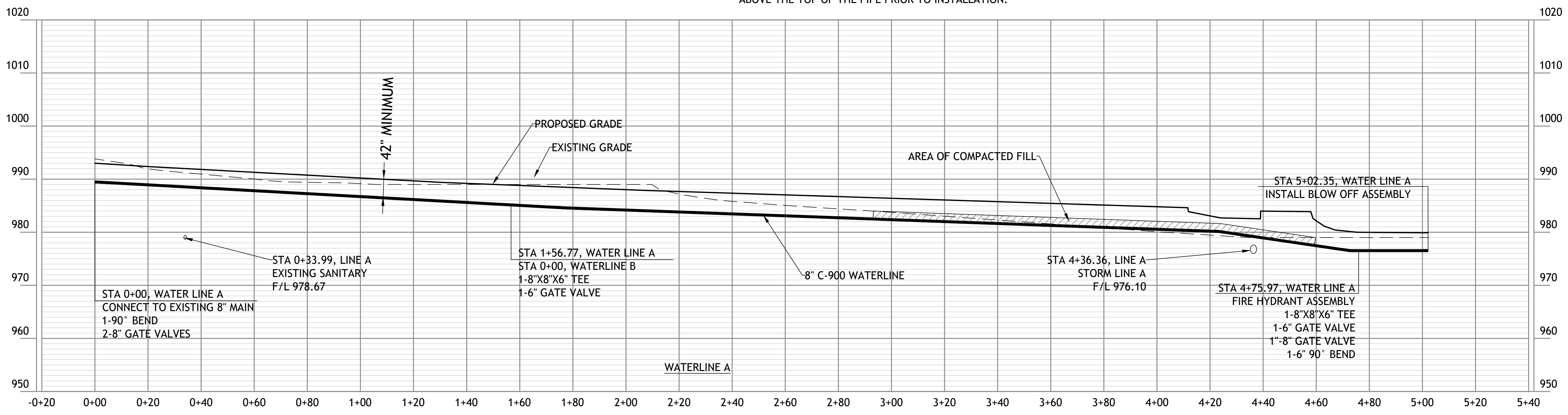
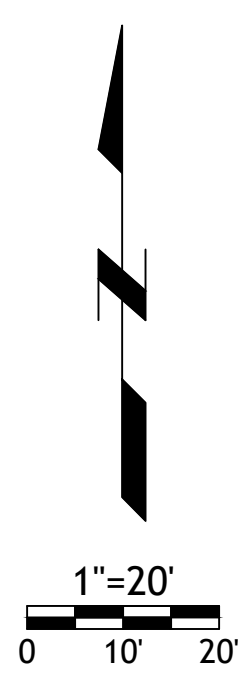
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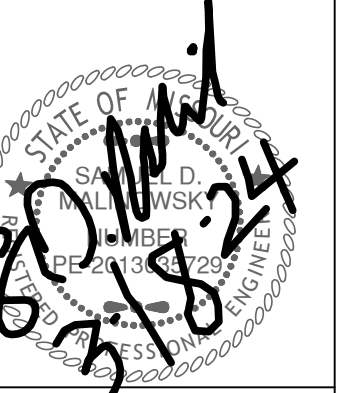


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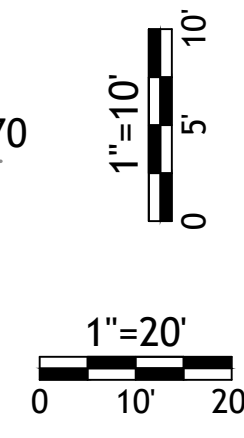
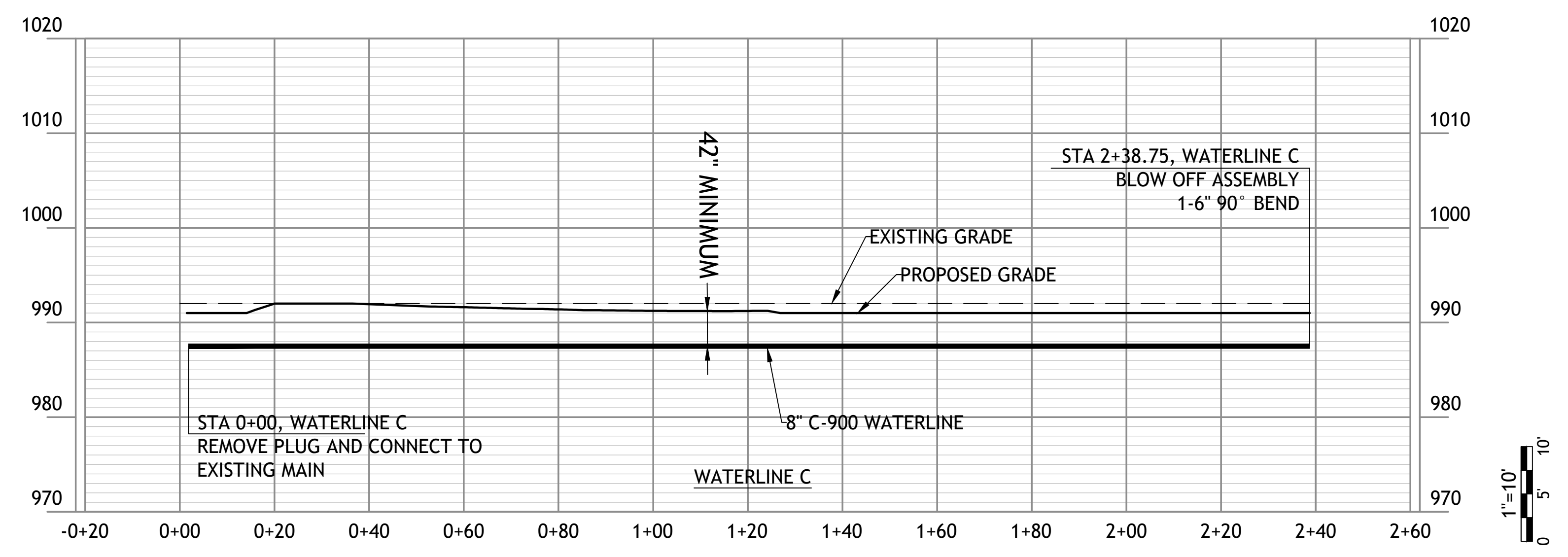
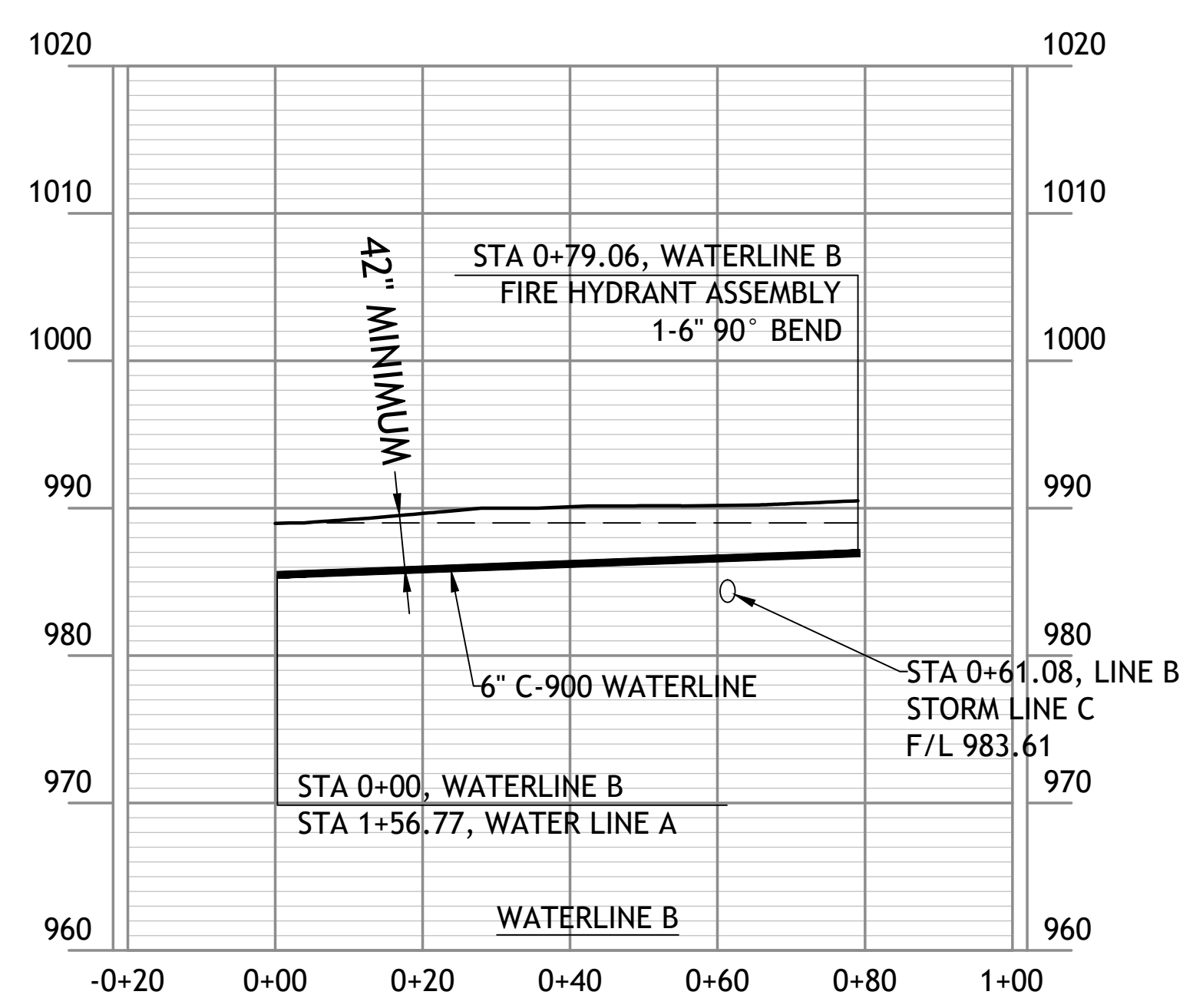
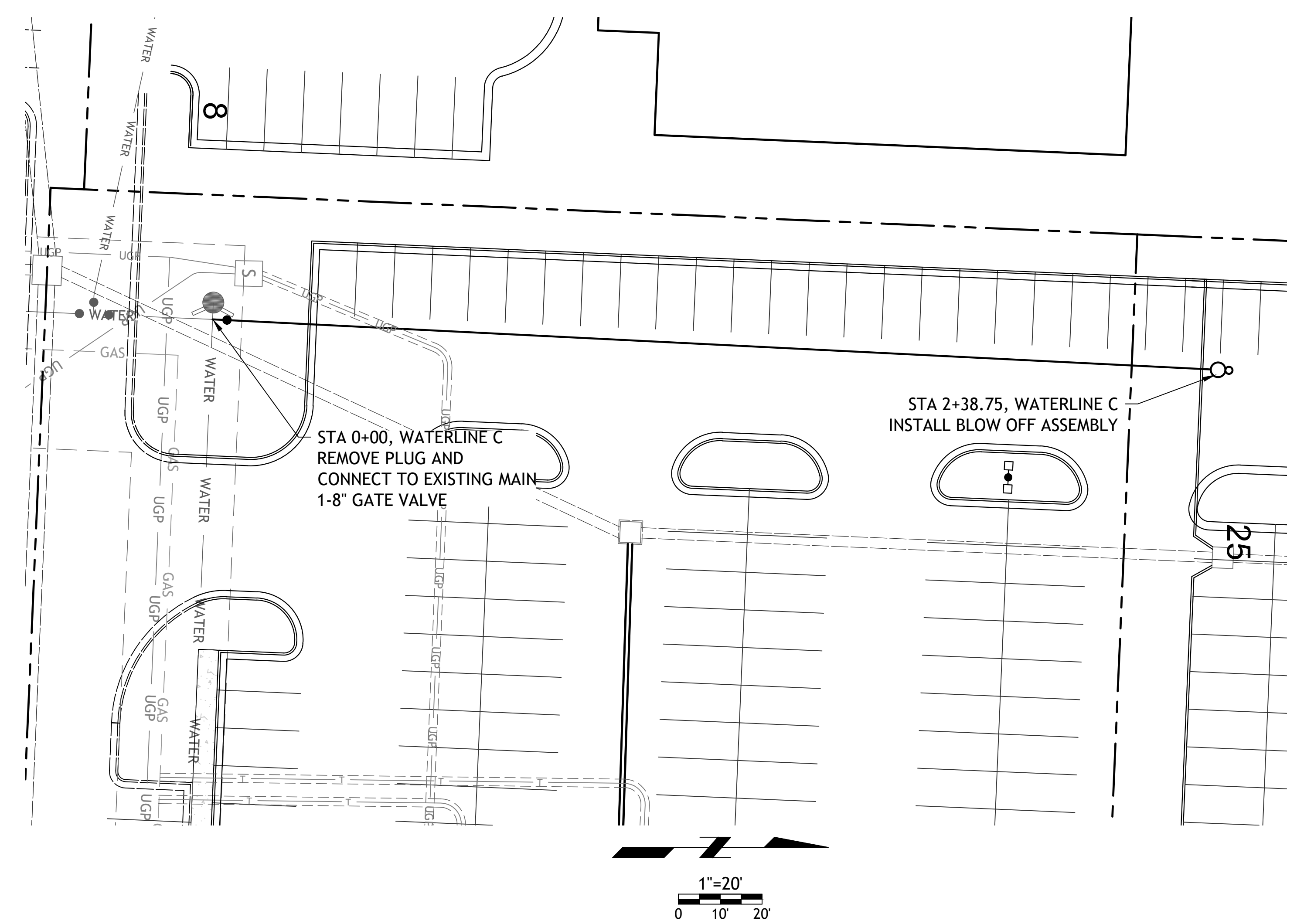
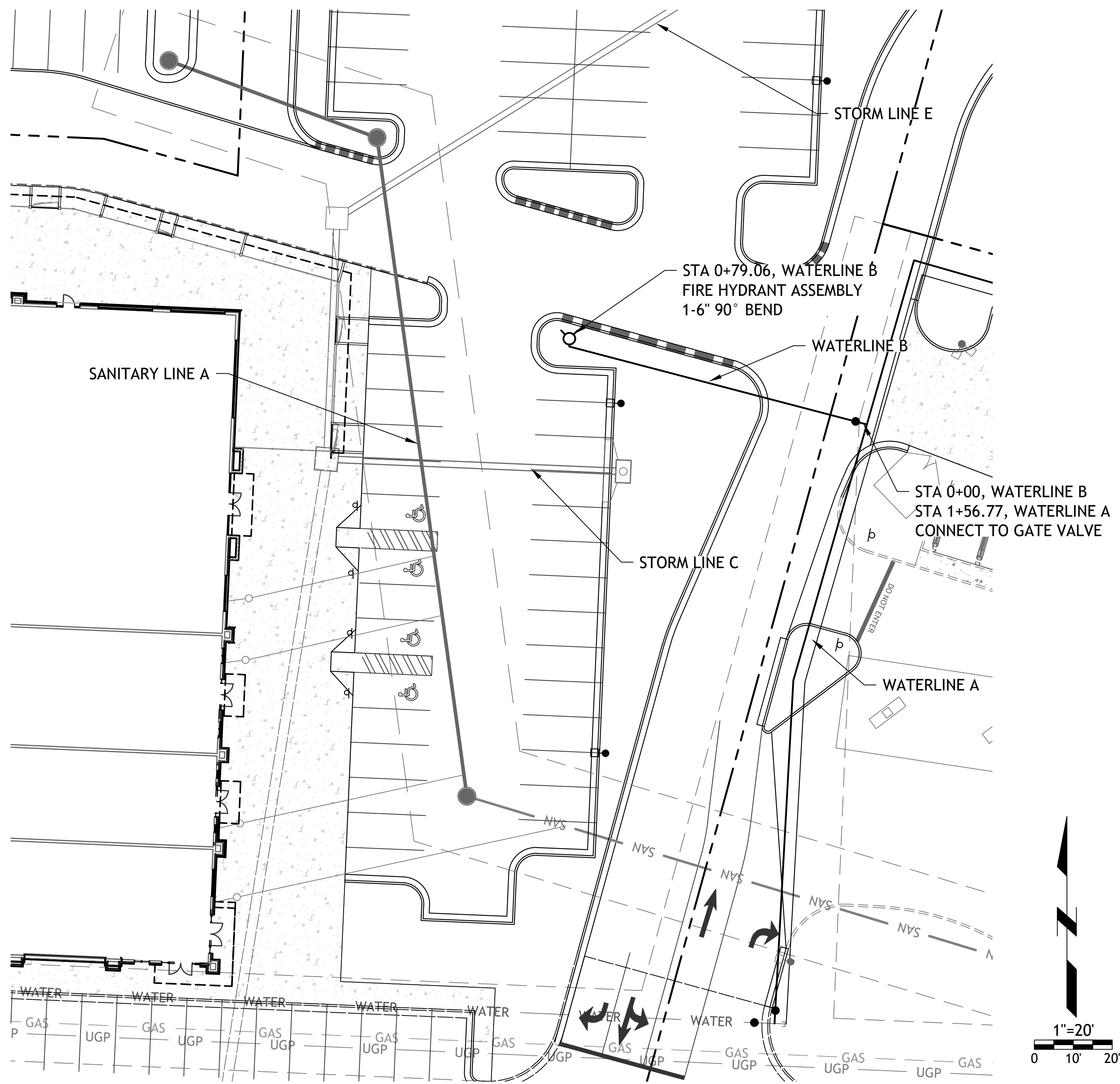
LOT 13A OF
WEST PRYOR
LEES SUMMIT, MISSOURI

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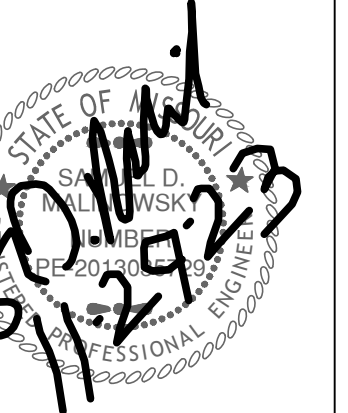


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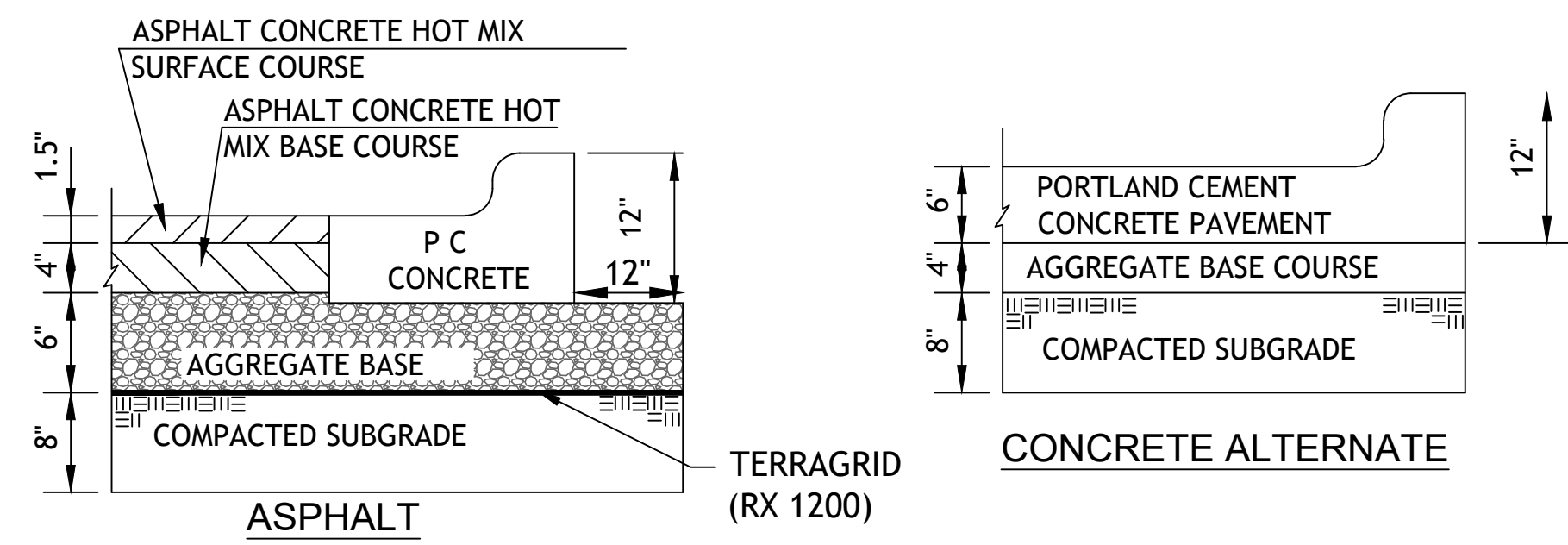
LOT 13A OF WEST PRYOR
LEES SUMMIT, MISSOURI



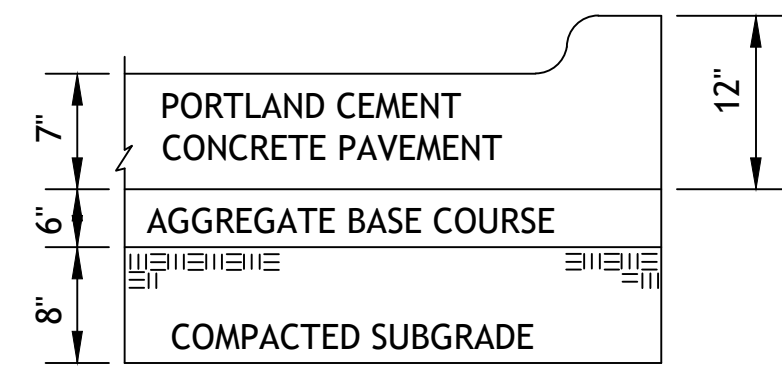
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Revisions
11-29-23 CITY COMMENTS



REGULAR DUTY PAVING PV1

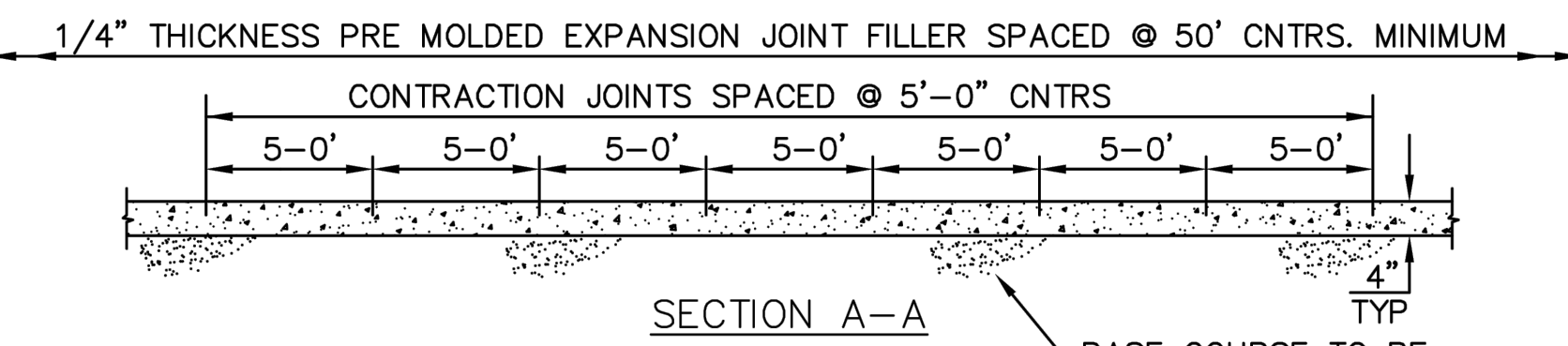
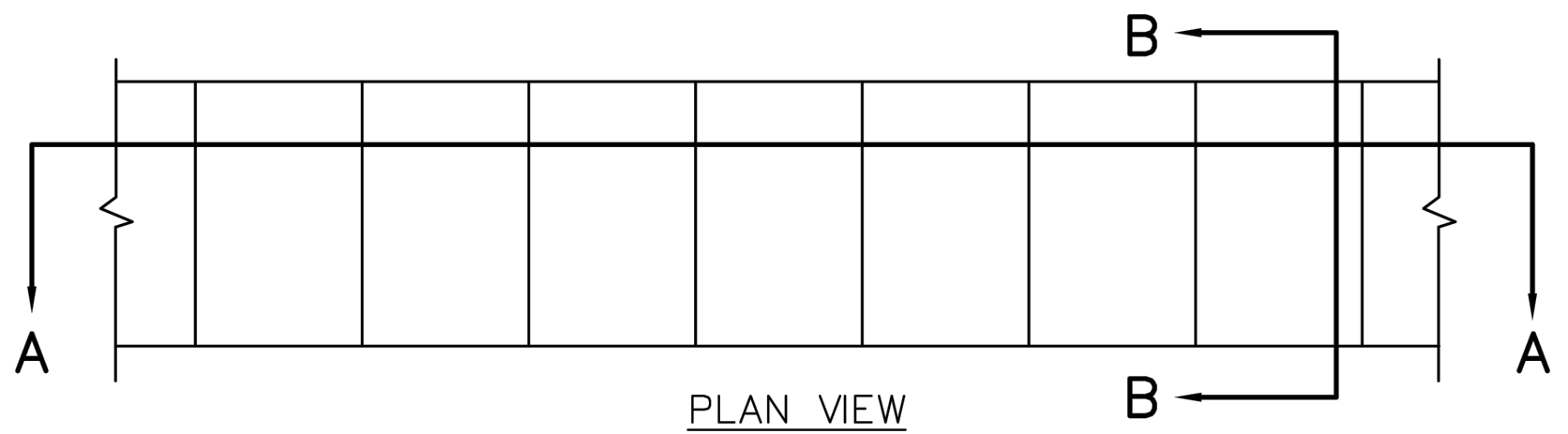


HEAVY DUTY CONCRETE PV3

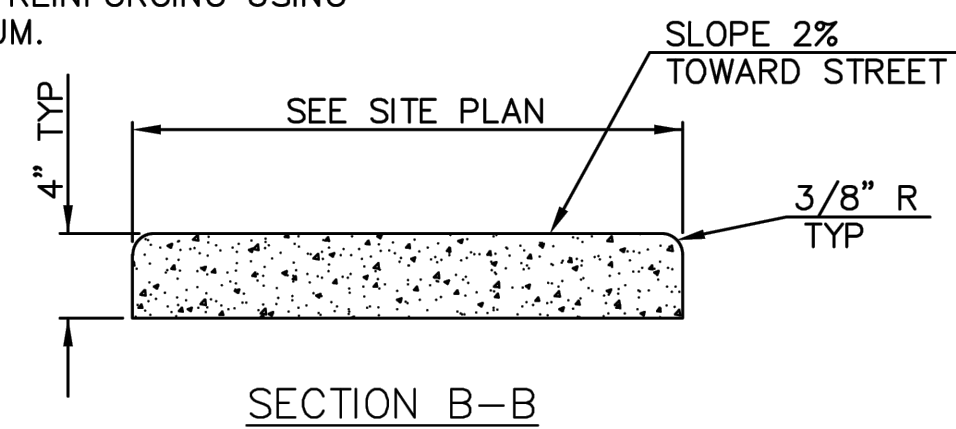
1. FLEXIBLE PAVEMENT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MISSOURI DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.

ASPHALT SURFACE COURSE - APWA TYPE 3-01
ASPHALT BASE COURSE - APWA TYPE 2-01
AGGREGATE BASE MODOT TYPE 5 OR EQUIVALENT

2. PORTLAND CEMENT CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS WITH 6% ENTRAINED AIR ±2% AND SHALL MEET OR EXCEED THE SPECIFICATIONS SET FORTH IN THE LATEST EDITION OF THE MISSOURI DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.



NOTE: WHERE SIDEWALKS ARE INTEGRAL WITH DRIVE ENTRANCES INCREASE DEPTH TO 6" AND PROVIDE REINFORCING USING 6x6 #10 WIRE MINIMUM.

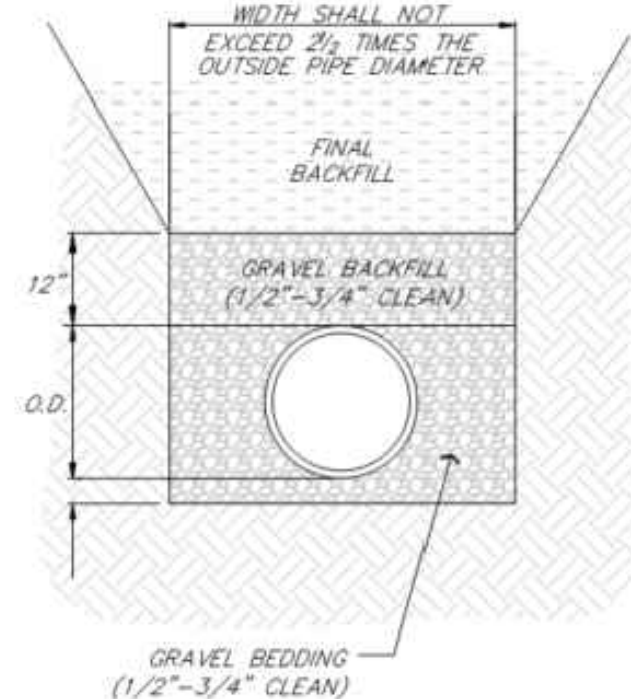


CONCRETE SIDEWALK CW2

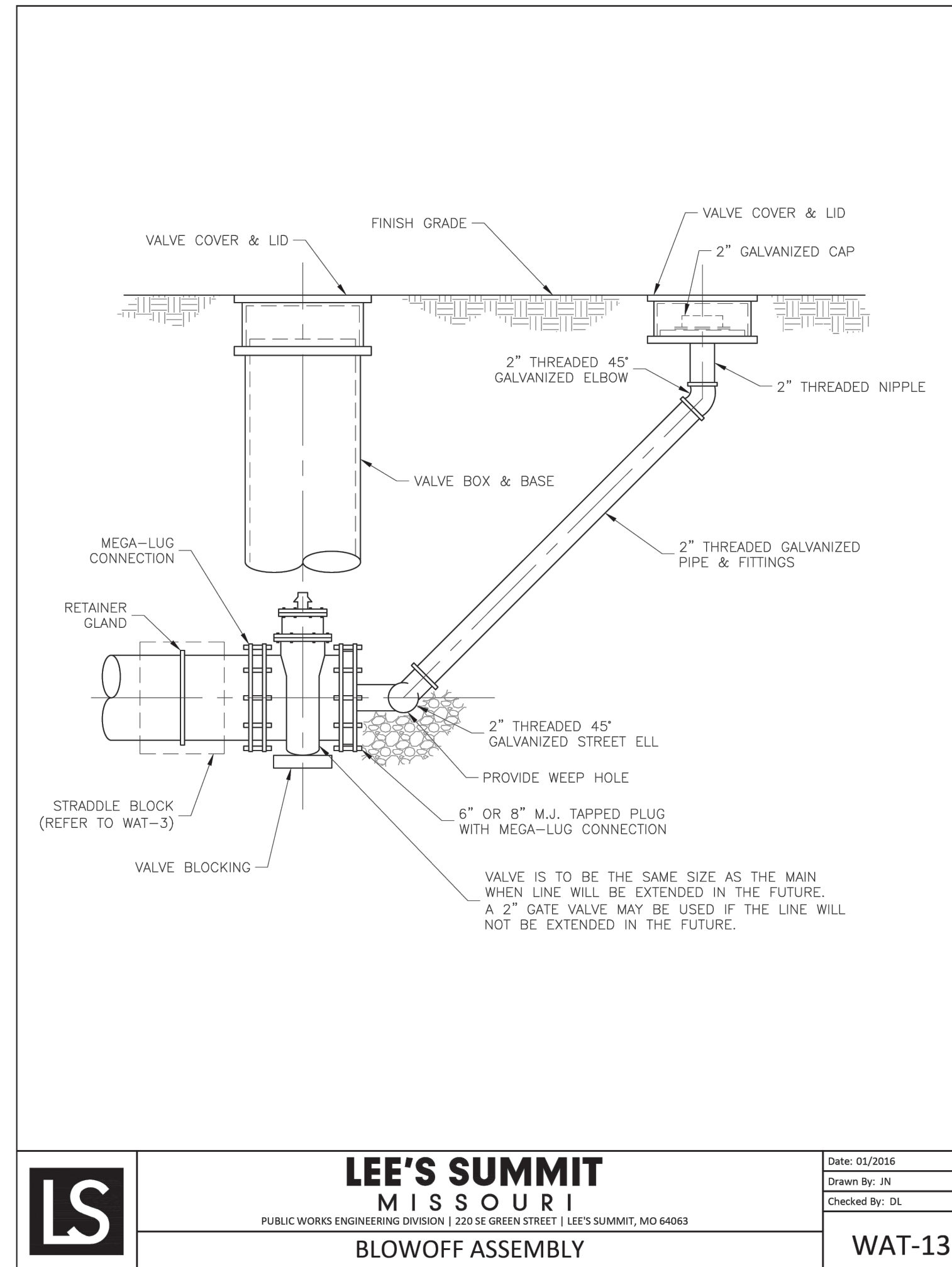
NOTE: CONCRETE SHALL BE CLASS A WITH $f_c = 3000$ PSI.

BEDDING
1/2" - 3/4" CLEAN AGGREGATE, HAND TAMPED OR MECHANICALLY COMPACTED IN MAX. 4" LIFTS
INITIAL BACKFILL
- UNDER PAVED AREAS OR WITHIN 4" HORIZONTAL OF PAVED AREAS
1/2" - 3/4" CLEAN AGGREGATE, HAND TAMPED OR MECHANICALLY COMPACTED IN MAX. 4" LIFTS
- UNDER OPEN AREAS
1/2" - 3/4" CLEAN AGGREGATE, HAND TAMPED OR MECHANICALLY COMPACTED IN MAX. 4" LIFTS
FINAL BACKFILL
- UNDER PAVED AREAS OR WITHIN 4" HORIZONTAL OF PAVED AREAS
ON-SITE OR IMPORTED MATERIAL FREE OF MUCK, FROZEN MATERIAL, EXCESS MOISTURE, ORGANICS, TOPSOIL, RUBBISH, CONSTRUCTION DEBRIS, ROCK OR BRICK LARGER THAN 8", COMPACTED TO 95% OF STANDARD DENSITY PER ASTM D-698
- UNDER OPEN AREAS
ON-SITE OR IMPORTED MATERIAL FREE OF MUCK, FROZEN MATERIAL, EXCESS MOISTURE, ORGANICS, TOPSOIL, RUBBISH, CONSTRUCTION DEBRIS, ROCK OR BRICK LARGER THAN 8", COMPACTED TO 90% OF STANDARD DENSITY PER ASTM D-698

BEDDING DEPTH BELOW PIPE		
PIPE DIAMETER	IN SOIL	IN ROCK
24" AND LESS	6"	6"
27" THRU 60"	6"	9"

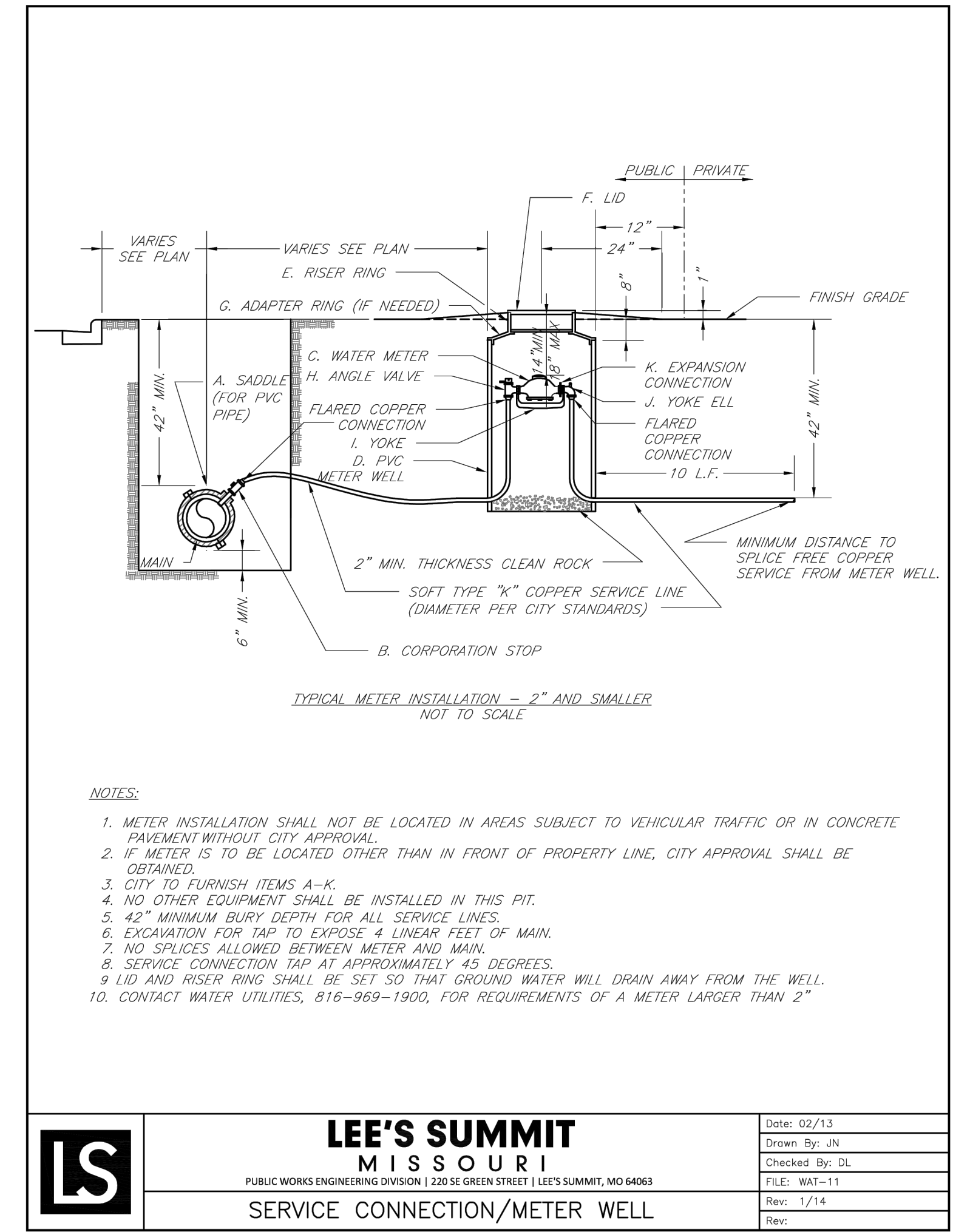


PIPE BEDDING DETAIL
NOT TO SCALE



LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063
BLOWOFF ASSEMBLY

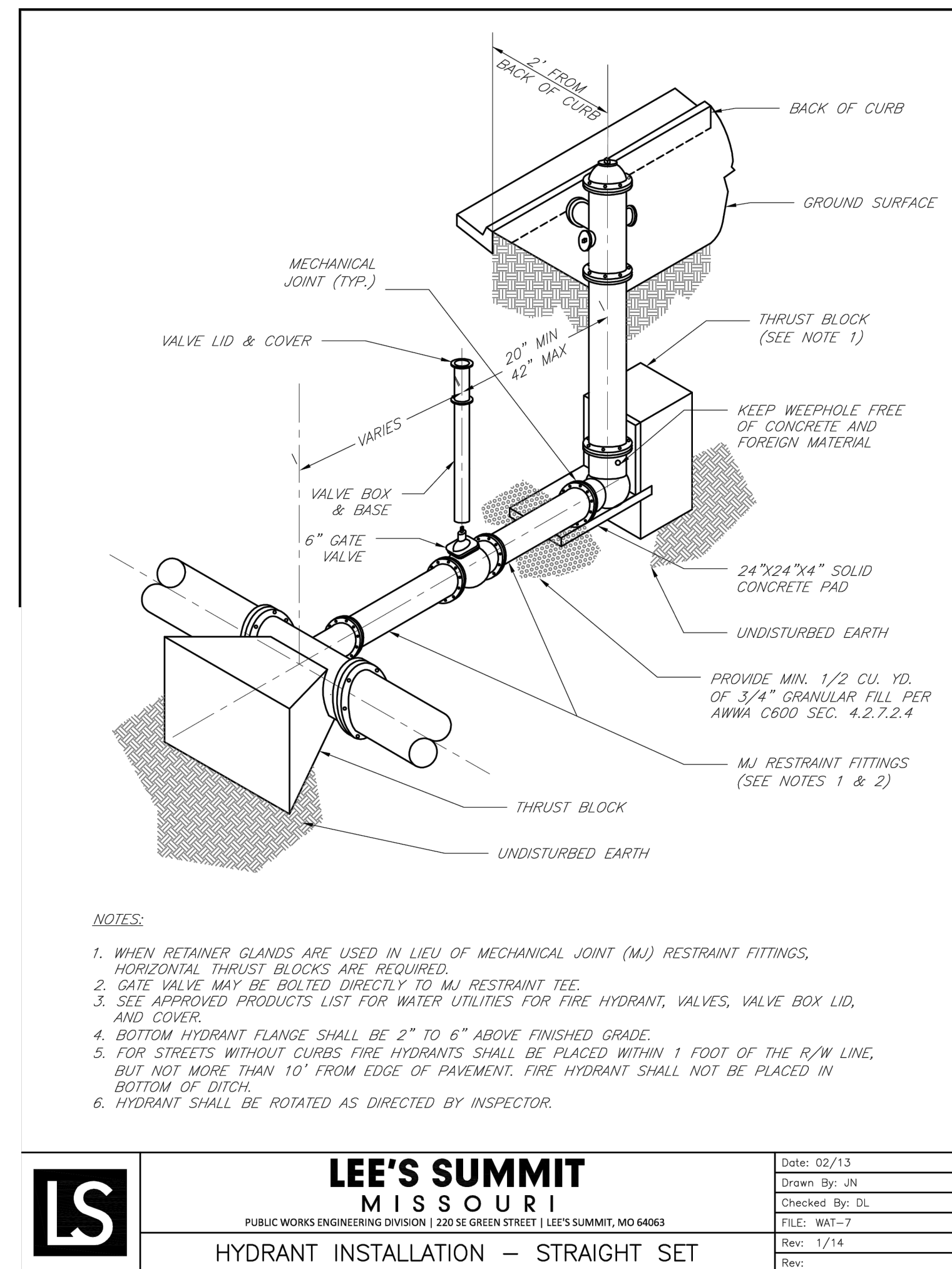
Date: 02/2016
Drawn By: JN
Checked By: DL
WAT-13



- NOTES:**
- METER INSTALLATION SHALL NOT BE LOCATED IN AREAS SUBJECT TO VEHICULAR TRAFFIC OR IN CONCRETE PAVEMENT WITHOUT CITY APPROVAL.
 - IF METER IS TO BE LOCATED OTHER THAN IN FRONT OF PROPERTY LINE, CITY APPROVAL SHALL BE OBTAINED.
 - CITY TO FURNISH ITEMS A-K.
 - NO OTHER EQUIPMENT SHALL BE INSTALLED IN THIS PIT.
 - 42" MINIMUM BURY DEPTH FOR ALL SERVICE LINES.
 - EXCAVATION FOR TAP TO EXPOSE 4 LINEAR FEET OF MAIN.
 - NO SPLICES ALLOWED BETWEEN METER AND MAIN.
 - SERVICE CONNECTION TAP AT APPROXIMATELY 45 DEGREES.
 - LID AND RISER RING SHALL BE SET SO THAT GROUND WATER WILL DRAIN AWAY FROM THE WELL.
 - CONTACT WATER UTILITIES, 816-969-1900, FOR REQUIREMENTS OF A METER LARGER THAN 2"

LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063
SERVICE CONNECTION/METER WELL

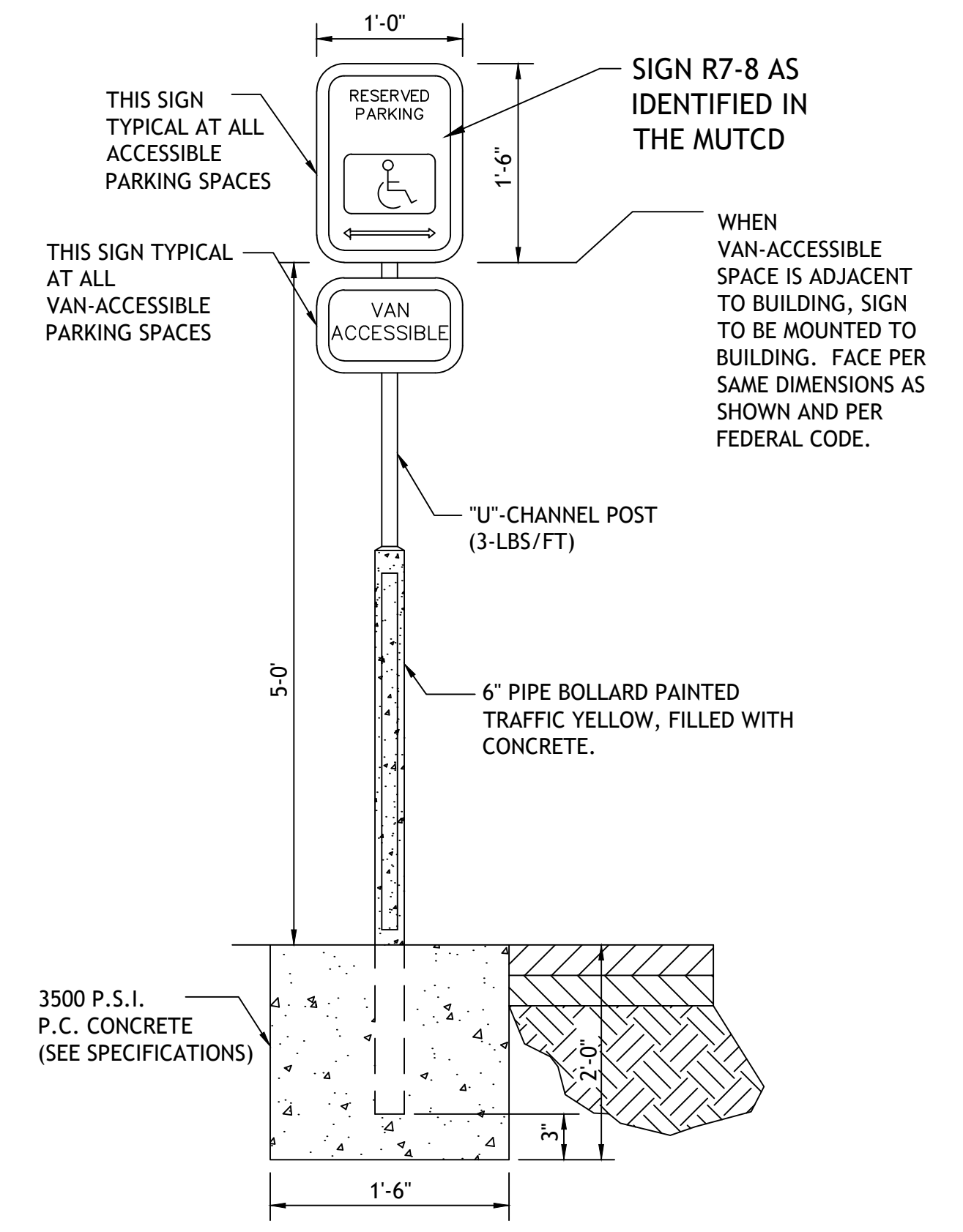
Date: 02/13
Drawn By: JN
Checked By: DL
FILE: WAT-11
Rev: 1/14
Rev:



- NOTES:**
- WHEN RETAINER GLANDS ARE USED IN LIEU OF MECHANICAL JOINT (MJ) RESTRAINT FITTINGS, HORIZONTAL THRUST BLOCKS ARE REQUIRED.
 - GATE VALVE MAY BE BOLTED DIRECTLY TO MJ RESTRAINT TEE.
 - SEE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR FIRE HYDRANT, VALVES, VALVE BOX LID, AND COVER.
 - BOTTOM HYDRANT FLANGE SHALL BE 2" TO 6" ABOVE FINISHED GRADE.
 - FOR STREETS WITHOUT CURBS FIRE HYDRANTS SHALL BE PLACED WITHIN 1 FOOT OF THE R/W LINE, BUT NOT MORE THAN 10' FROM EDGE OF PAVEMENT. FIRE HYDRANT SHALL NOT BE PLACED IN BOTTOM OF DITCH.
 - HYDRANT SHALL BE ROTATED AS DIRECTED BY INSPECTOR.

LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063
HYDRANT INSTALLATION - STRAIGHT SET

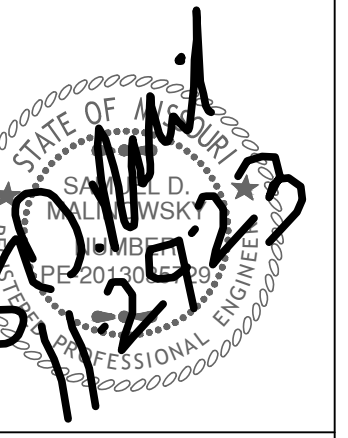
Date: 02/13
Drawn By: JN
Checked By: DL
FILE: WAT-7
Rev: 1/14
Rev:



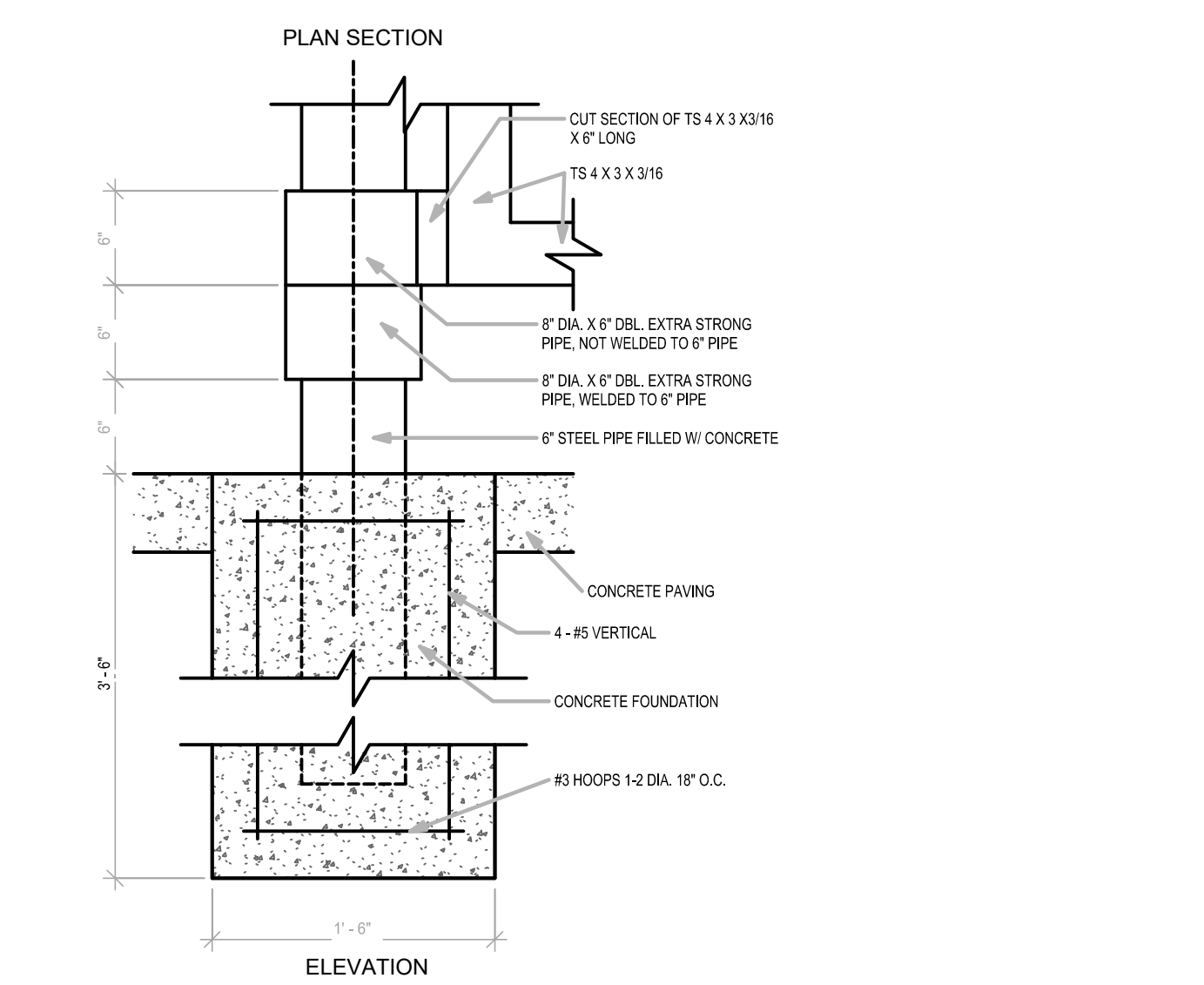
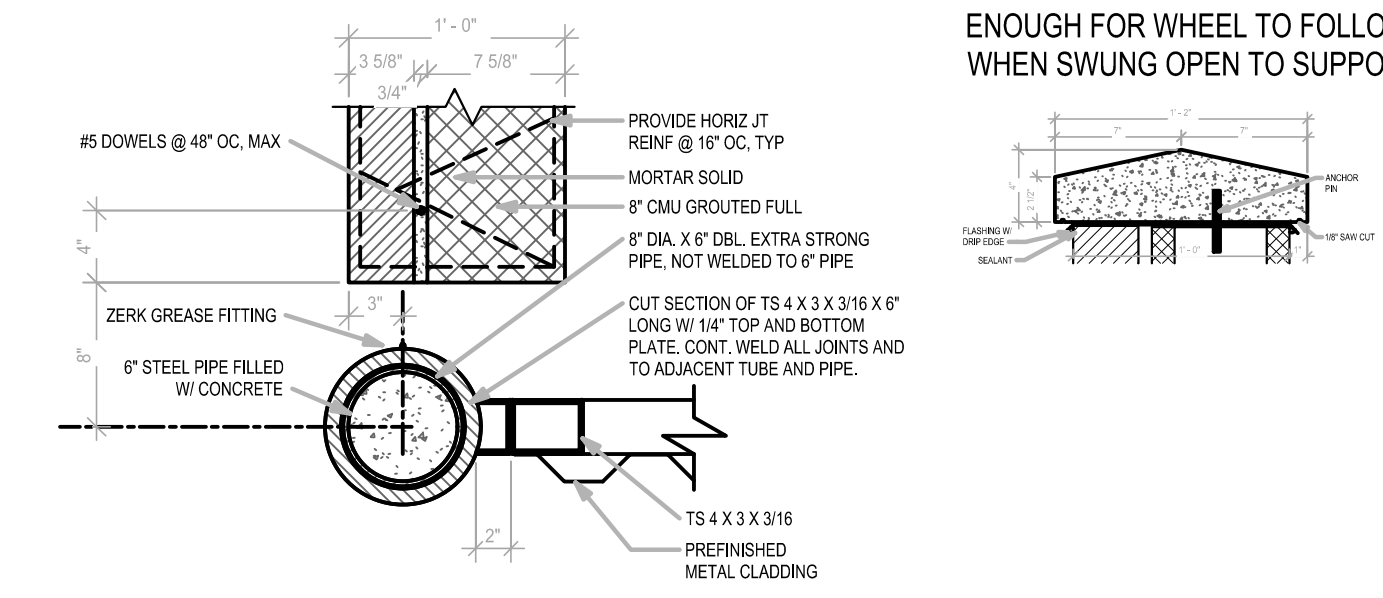
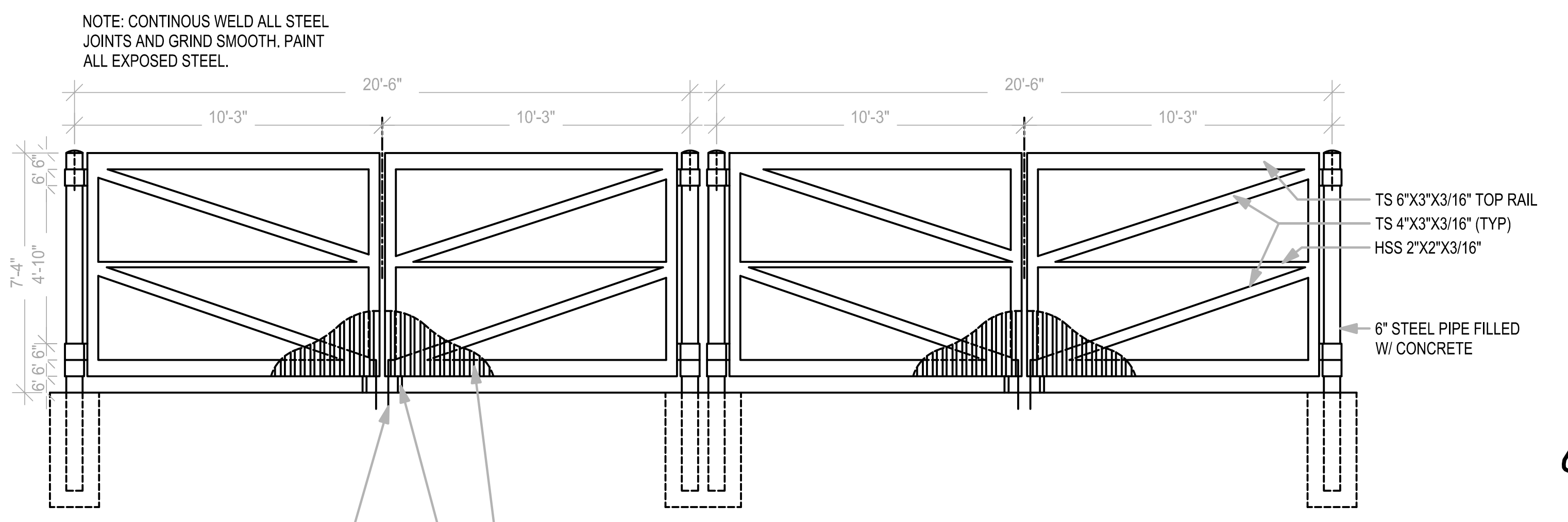
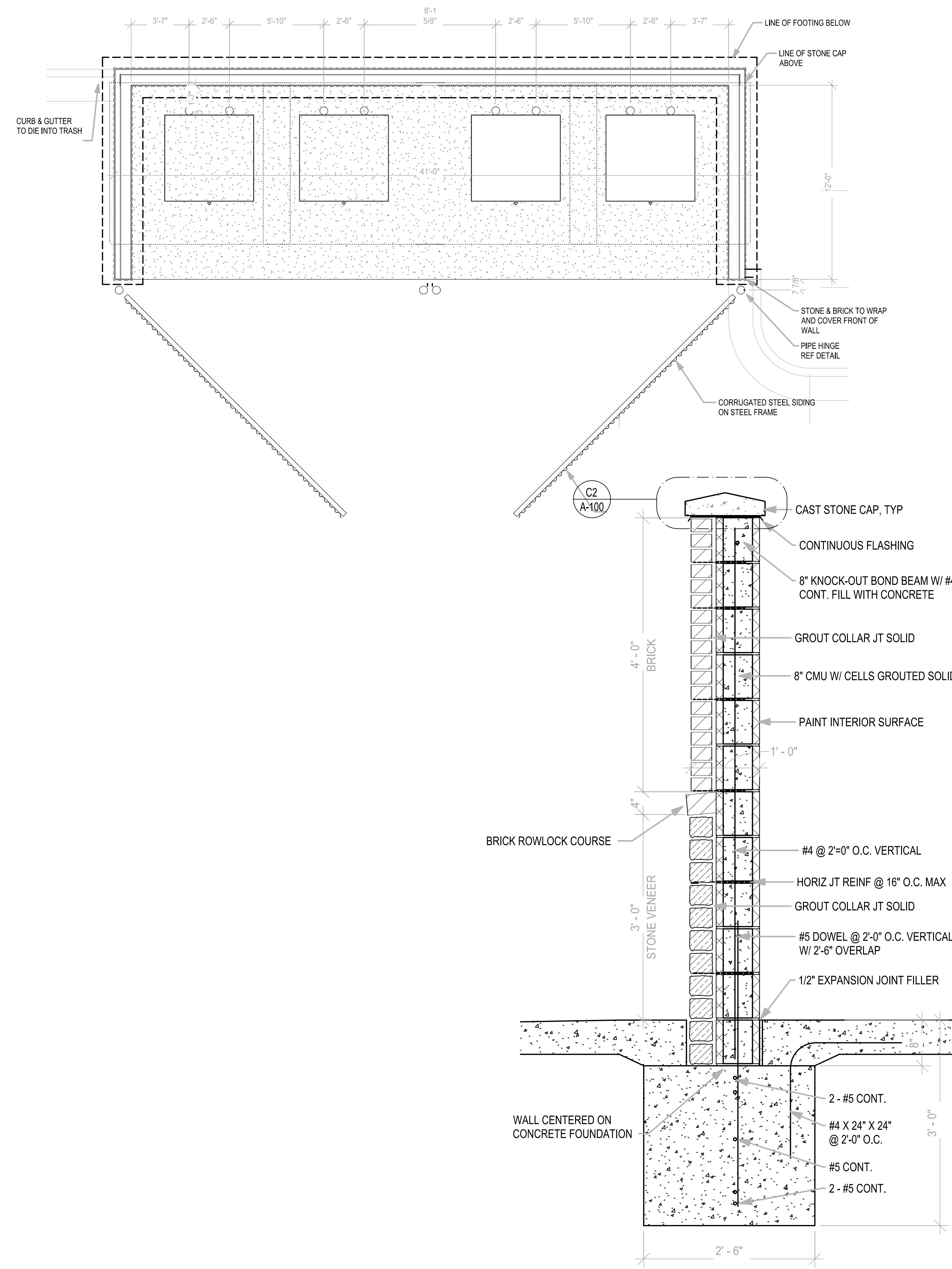
ACCESSIBLE PARKING SIGN PK2

LOT 13A OF
WEST PRYOR

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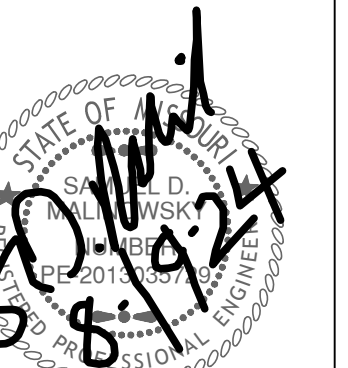


Revisions
11-29-23 CITY COMMENTS



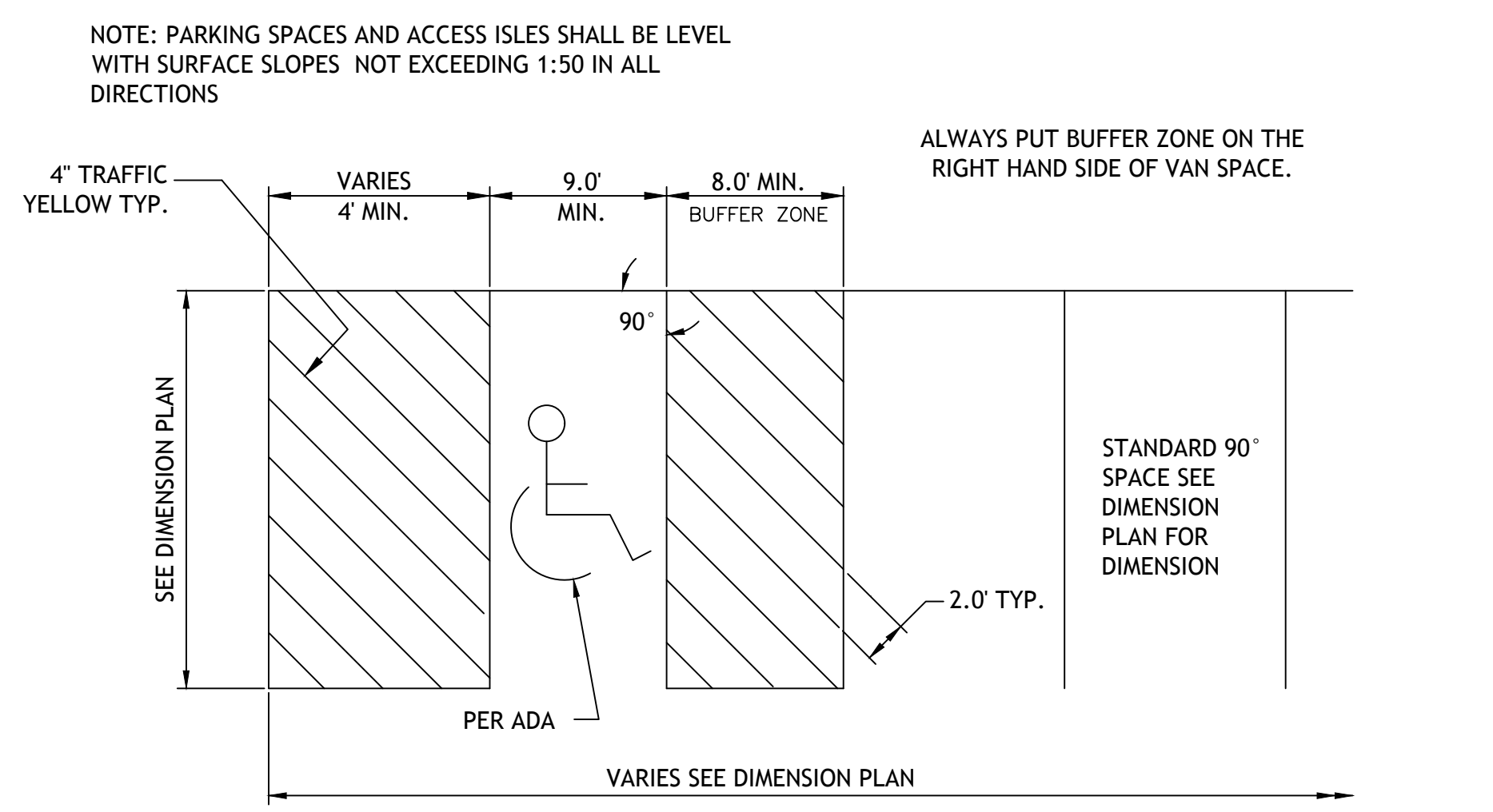
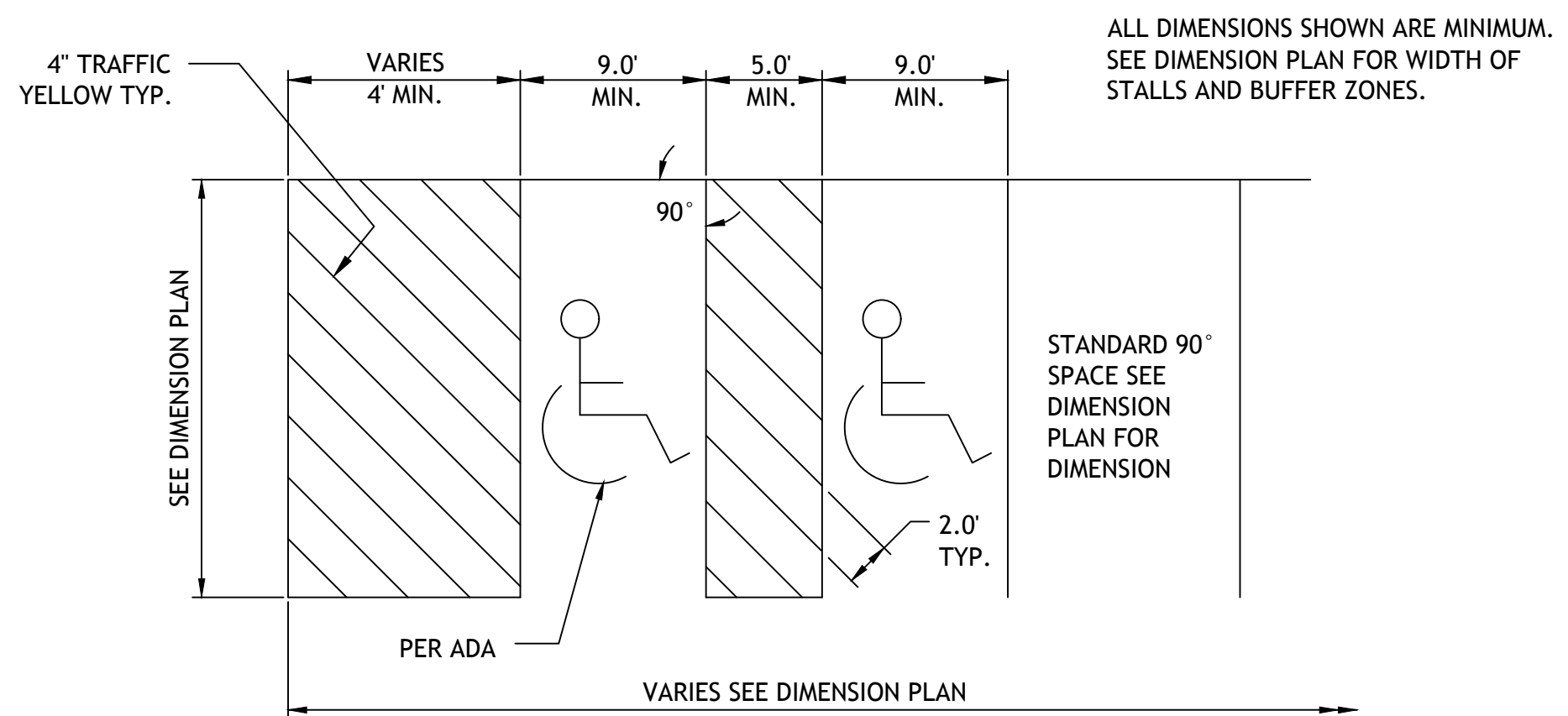
LOT 13A OF
WEST PRYOR
LEES-SUMMIT, MISSOURI

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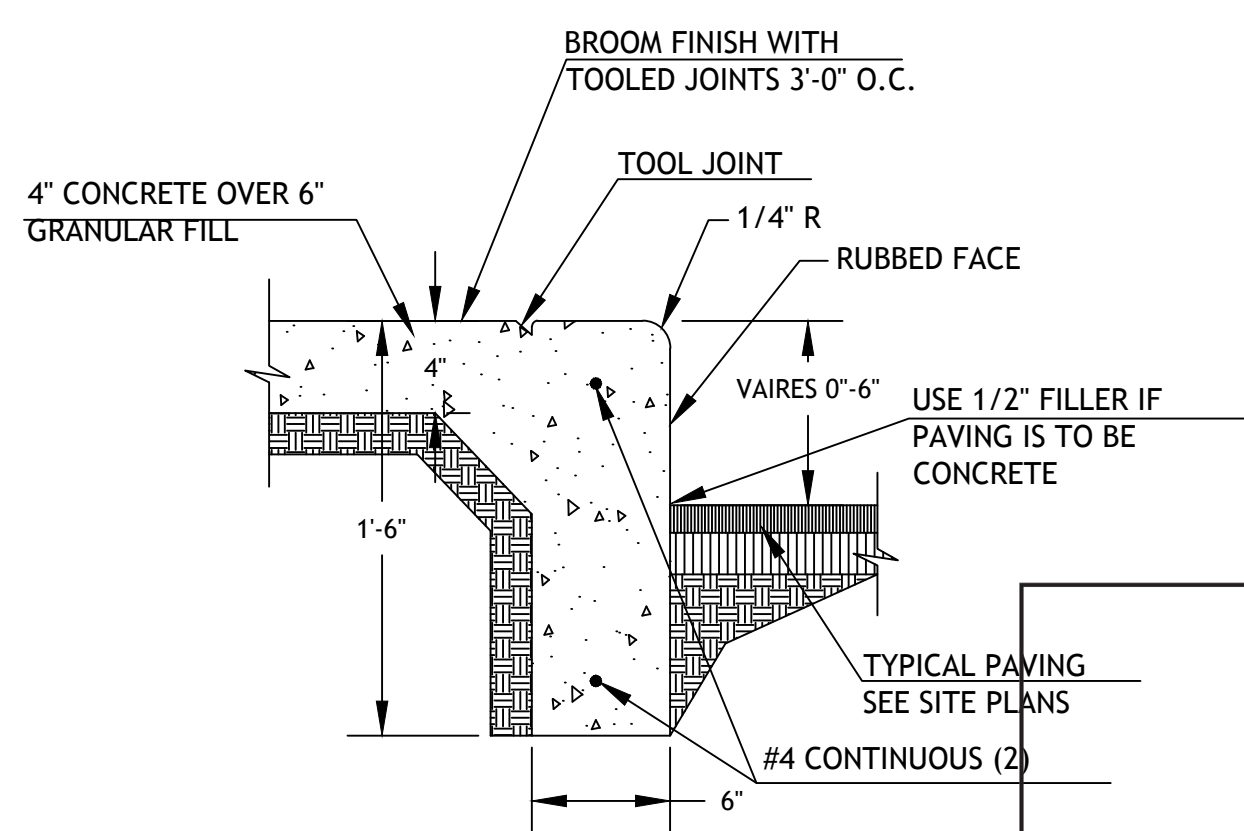
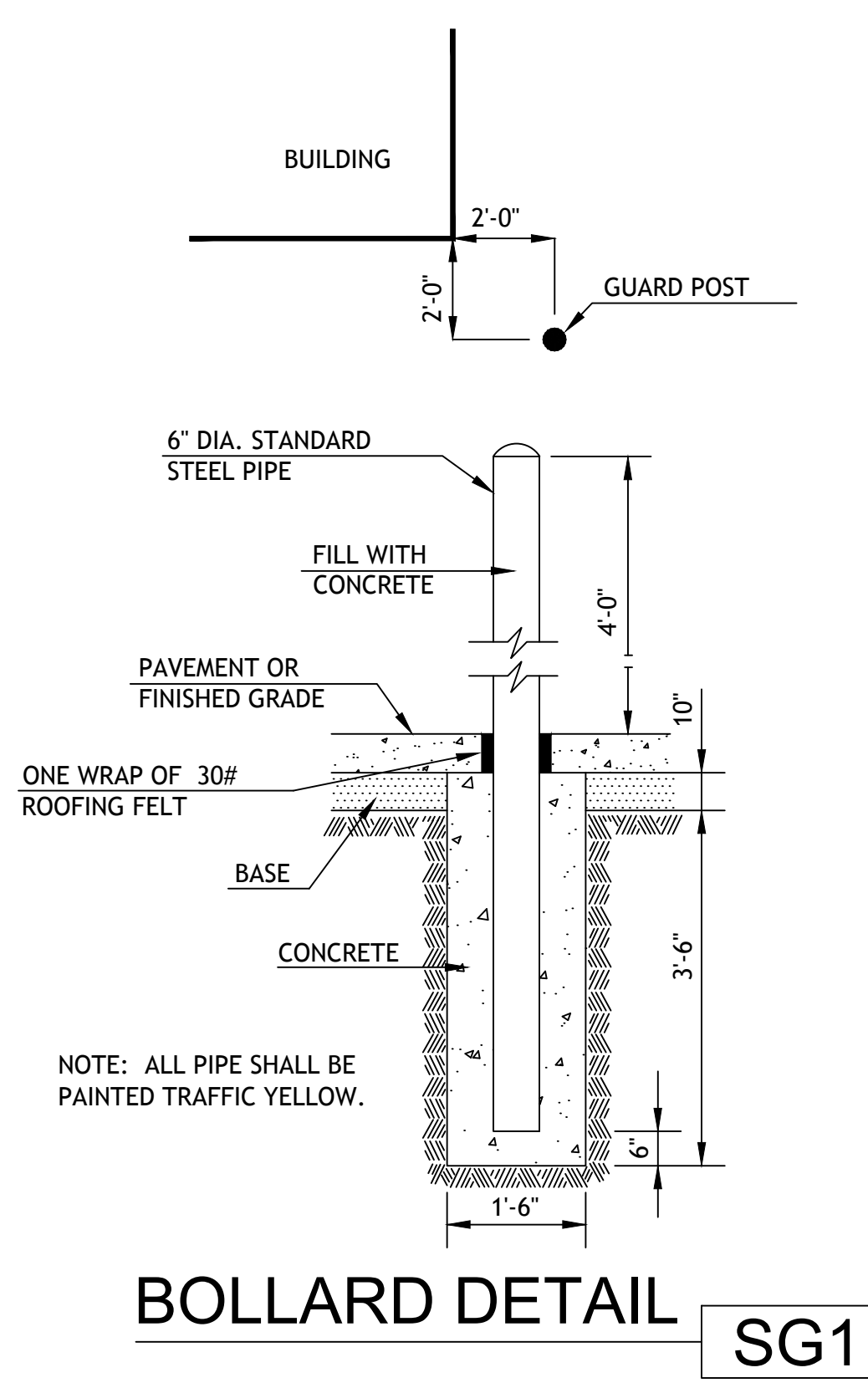


Revisions
 11-29-23 CITY COMMENTS
 1-4-24 PER CLIENT
 1-16-24 PER EVERGY
 2-29-24 PER CLIENT
 3-7-24 SECTIONALIZER
 3-18-24 PER CLIENT
 4-1-24 PER CLIENT
 8-19-24 PER CLIENT

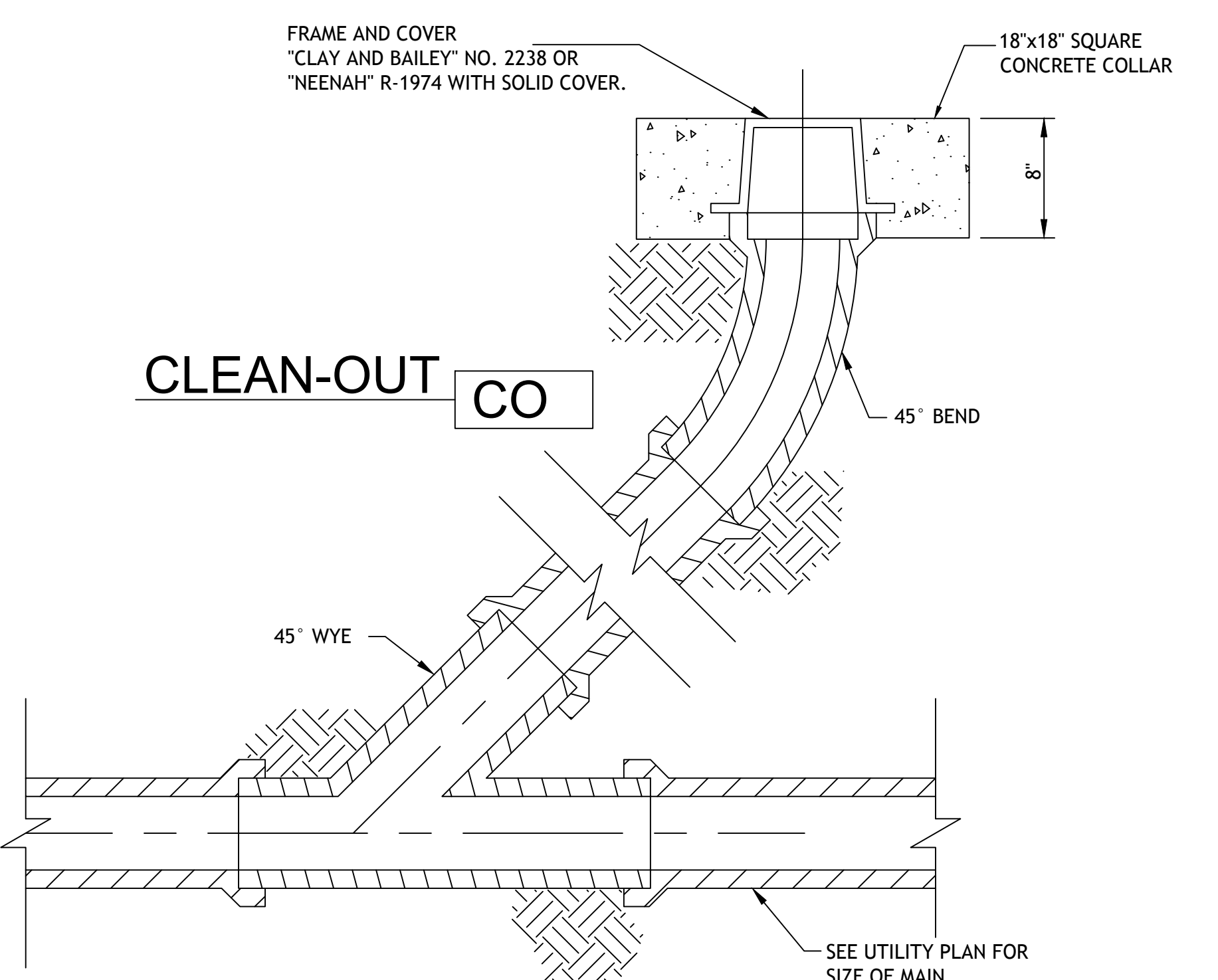
LOT 13A OF
WEST PRYOR
 LEES-SUMMIT, MISSOURI



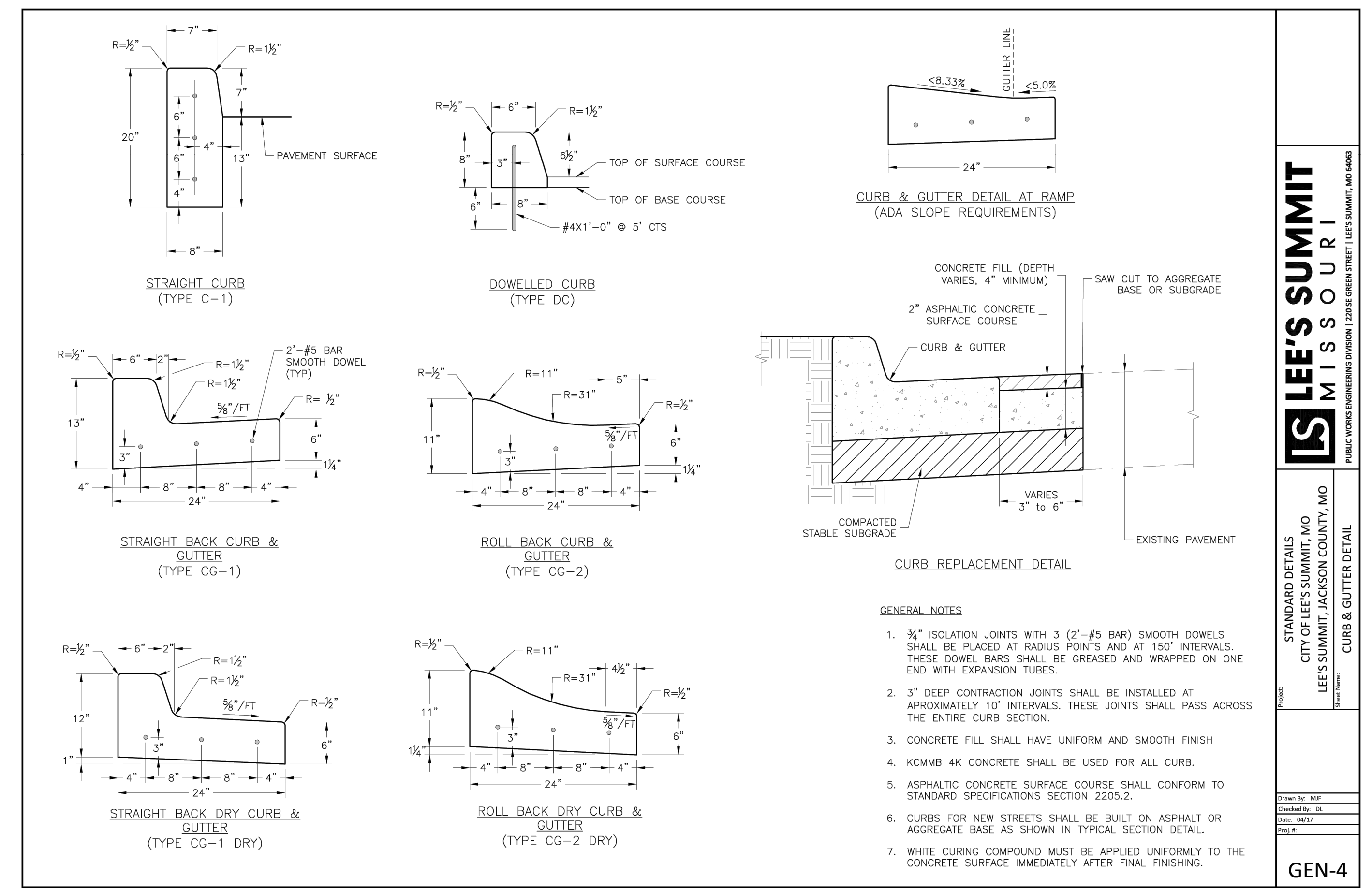
90° ACCESSIBLE & VAN ACCESSIBLE SPACE STRIPING PK1



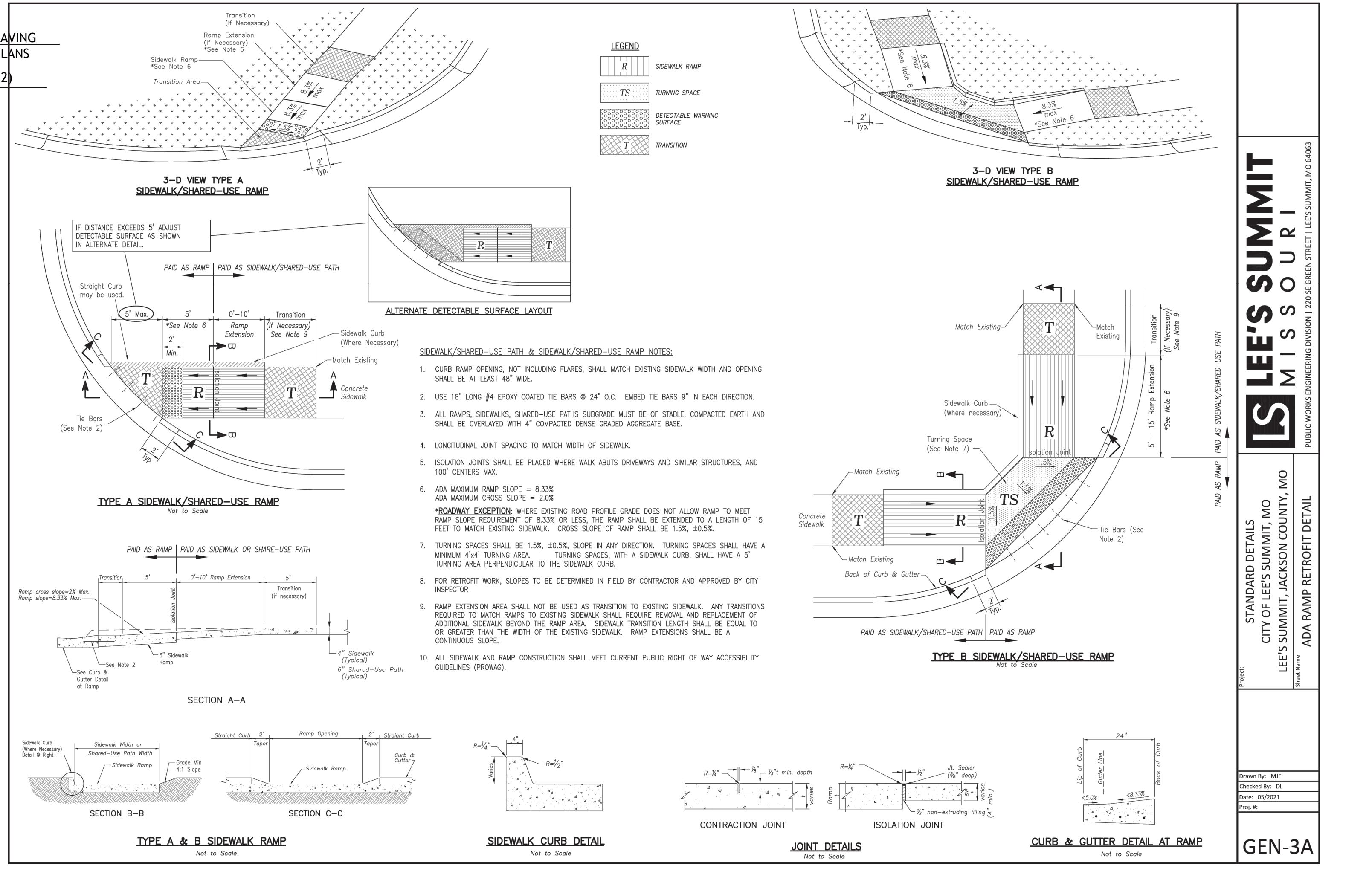
CURB WALK/CURB (AT BUILDING) CW1



CLEAN-OUT CO



- GENERAL NOTES**
- 3/4" ISOLATION JOINTS WITH 3 (2'-#5 BAR) SMOOTH DOWELS SHALL BE PLACED AT RADIUS POINTS AND AT 15' INTERVALS. THESE DOWEL BARS SHALL BE GREASED AND WRAPPED ON ONE END WITH EXPANSION TUBES.
 - 3" DEEP CONTRACTION JOINTS SHALL BE INSTALLED AT APPROXIMATELY 10' INTERVALS. THESE JOINTS SHALL PASS ACROSS THE ENTIRE CURB SECTION.
 - CONCRETE FILL SHALL HAVE UNIFORM AND SMOOTH FINISH
 - KCMMB 4K CONCRETE SHALL BE USED FOR ALL CURBS.
 - ASPHALTIC CONCRETE SURFACE COURSE SHALL CONFORM TO STANDARD SPECIFICATIONS SECTION 2205.2.
 - CURBS FOR NEW STREETS SHALL BE BUILT ON ASPHALT OR AGGREGATE BASE AS SHOWN IN TYPICAL SECTION DETAIL.
 - WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.

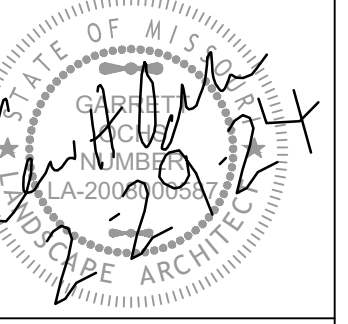


STANDARD DETAILS
 CITY OF LEES SUMMIT, MO
 LEES-SUMMIT, JACKSON COUNTY, MO
 PROJECT: ADA RAMP RETROFIT DETAIL

LEE'S SUMMIT MISSOURI
 PUBLIC WORKS ENGINEERING DIVISION | 2202 SE GREEN STREET | LEES SUMMIT, MO 66003

Drawn By: MFP
 Checked By: IS
 Date: 08/20/23
 Proj #: GEN-3A

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- Revisions
- 1-4-24 PER CLIENT
 - 1-16-24 PER EVERGY
 - 2-29-24 PER CLIENT
 - 3-7-24 SECTIONALIZER
 - 3-18-24 PER CLIENT
 - 4-1-24 PER CLIENT
 - 8-19-24 PER CLIENT
 - 9-11-24 PER CLIENT
 - 9-25-24 CITY COMMENTS
 - 10-23-24 PER CLIENT
 - 10-24-24 PER CLIENT

LANDSCAPE NOTES
CONTRACTOR REQUIRED TO LOCATE ALL UTILITIES BEFORE INSTALLATION TO BEGIN.

Contractor shall verify all landscape material quantities and shall report any discrepancies to the Landscape Architect prior to installation.

No plant material substitutions are allowed without Landscape Architect or Owners approval.

Contractor shall guarantee all landscape work and plant material for a period of one year from date of acceptance of the work by the Owner. Any plant material which dies during the one year guarantee period shall be replaced by the contractor during normal planting seasons.

Contractor shall be responsible for maintenance of the plants until completion of the job and acceptance by the Owner.

Successful landscape contractor shall be responsible for design that complies with minimum irrigation requirements, and installation of an irrigation system. Irrigation system to be approved by the owner before starting any installation.

All plant material shall be specimen quality stock as determined in the "American Standards For Nursery Stock" published by The American Association of Nurserymen, free of plant diseases and pest, of typical growth of the species and having a healthy, normal root system.

Sizes indicated on the plant list are the minimum, acceptable size. In no case will sizes less than specified be accepted.

All shrub beds within lawn areas to receive a manicured edge.

All shrub beds shall be mulched with 3" of shredded chocolate mulch.

All sod areas to be fertilized & sodded with a Turf-Type-Tall Fescue seed blend.

All areas to be sodded unless noted otherwise.

All seed areas shall be hydro-seeded with a Turf-Type-Tall Fescue seed blend.

IRRIGATION NOTE

1. SUCCESSFUL LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN THAT COMPLIES WITH MINIMUM IRRIGATION REQUIREMENTS, AND INSTALLATION OF AN IRRIGATION SYSTEM. IRRIGATION SYSTEM TO BE APPROVED BY THE OWNER BEFORE STARTING ANY INSTALLATION.
2. IRRIGATION SYSTEM SHALL PROVIDE A CONSTANT ON ON ZONE FOR FOUNTAIN
3. IRRIGATION CONTROLLER TO BE MOUNTED ON OUTSIDE WALL OF BUILDING. PROVIDE TEMPORARY SUPPORT PRIOR TO BUILDING CONSTRUCTION.
4. ALL AREAS WITHIN LOT 11 & 13 BOUNDARY TO BE IRRIGATED

MOWING NOTE
CONTRACTOR SHALL BE RESPONSIBLE FOR FIRST 2 MOWINGS OF ALL AREAS OF GRASS.

LOT 13
470 HWY = 216'
REQUIRED:
STREET TREES 1/30' = 7
SHRUBS 1/20' = 11

PROVIDED:
ORNAMENTALS = 11
SHRUBS = 60

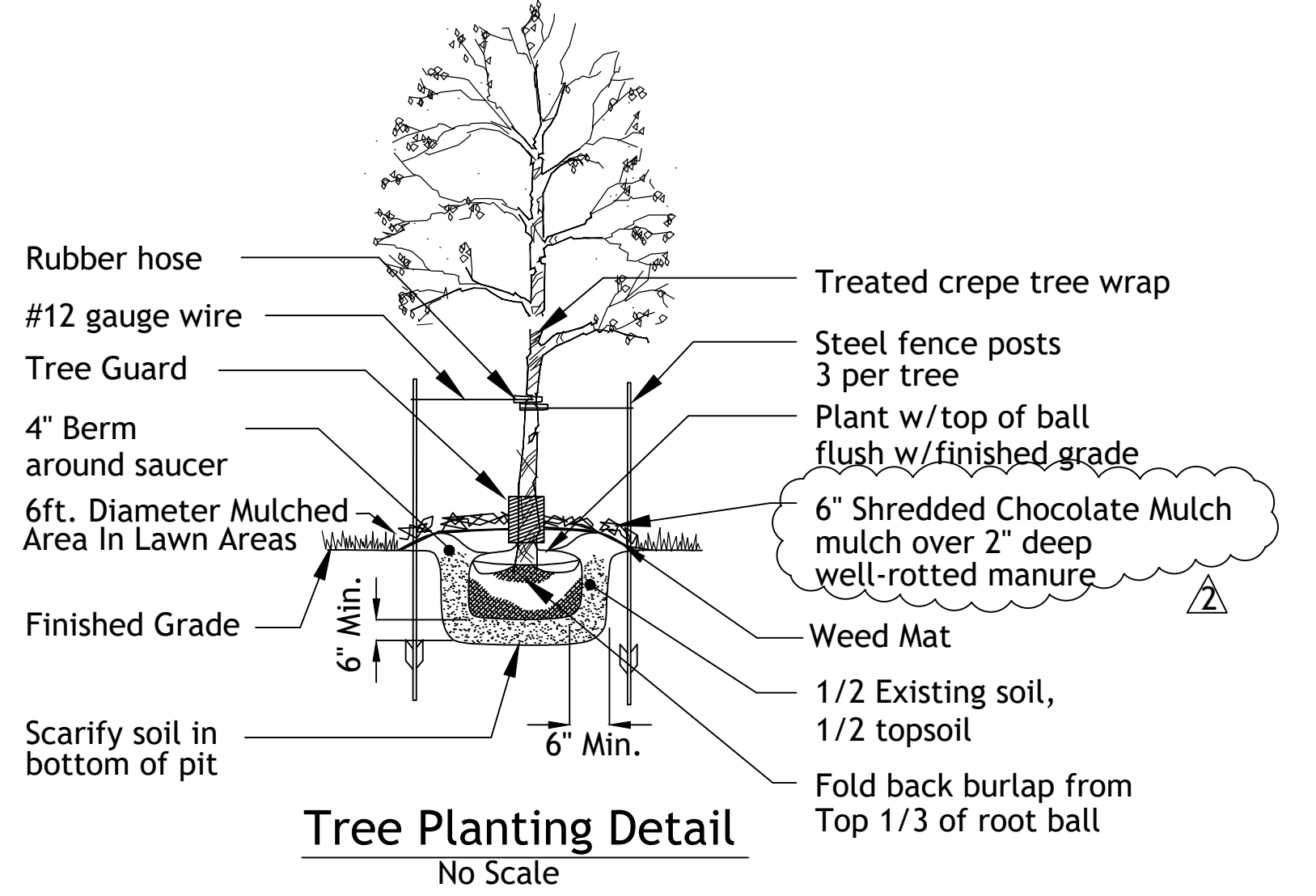
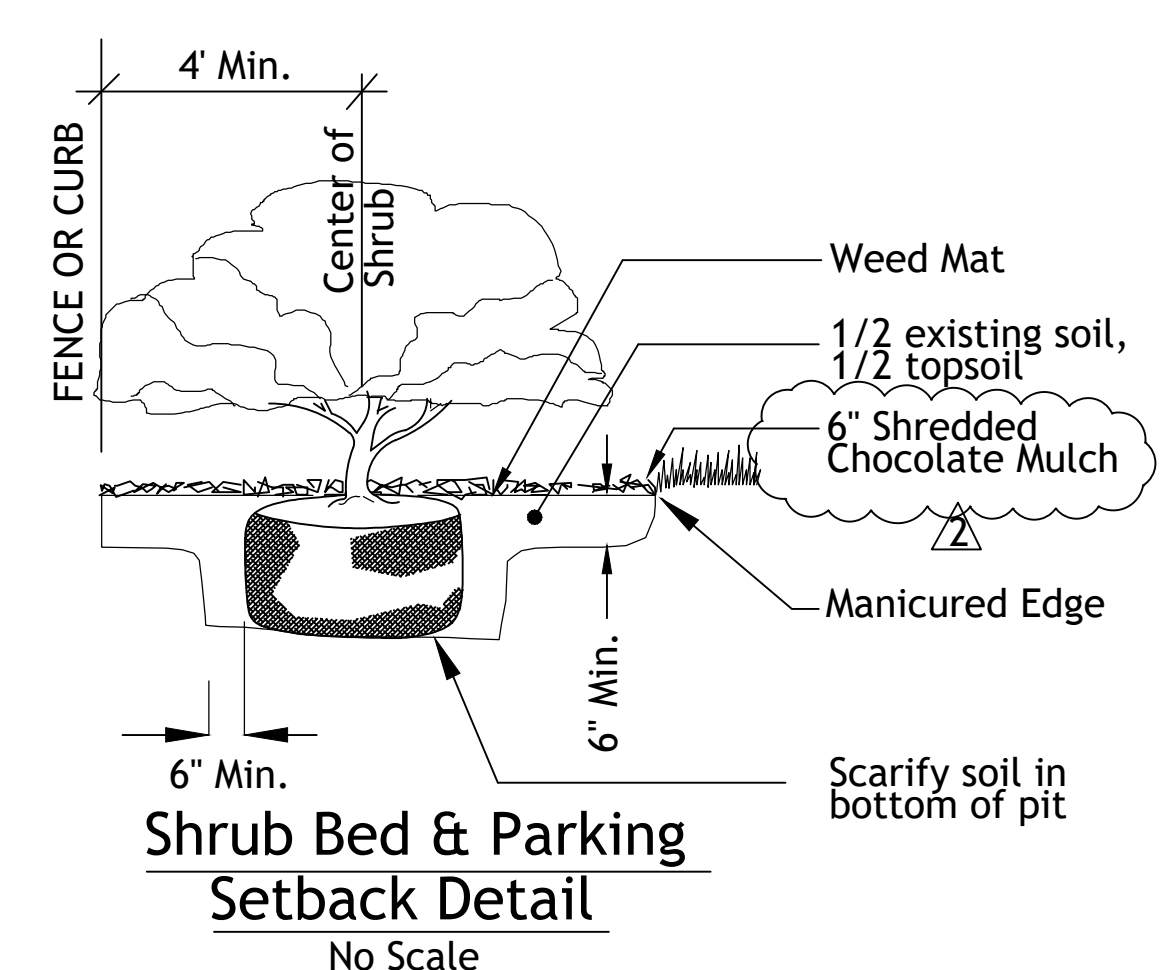
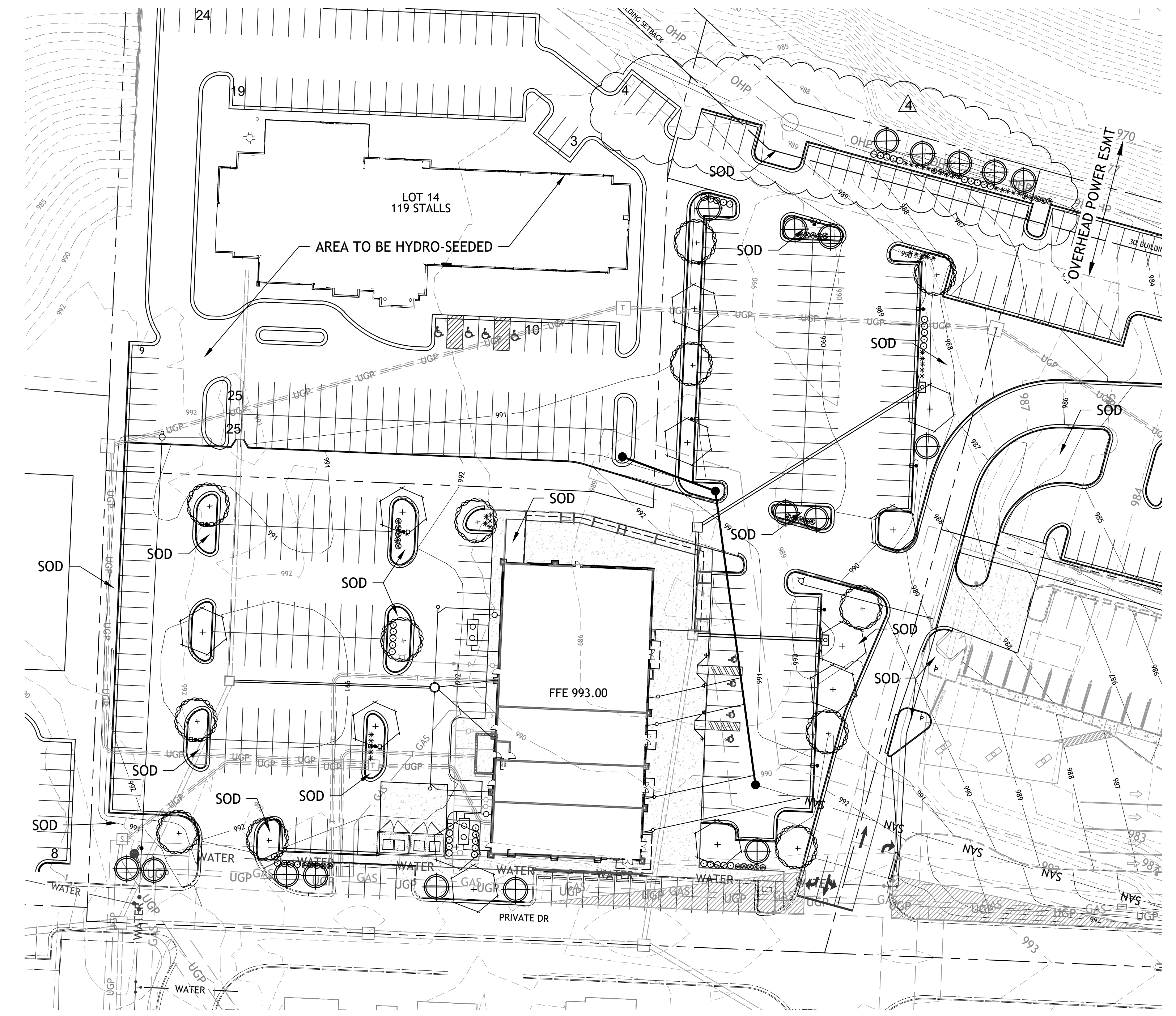
PRIVATE DR (SOUTH) = 425'
REQUIRED:
STREET TREES 1/30' = 14
SHRUBS 1/20' = 21

PROVIDED:
SHADE = 7
ORNAMENTALS = 7
SHRUBS = 30

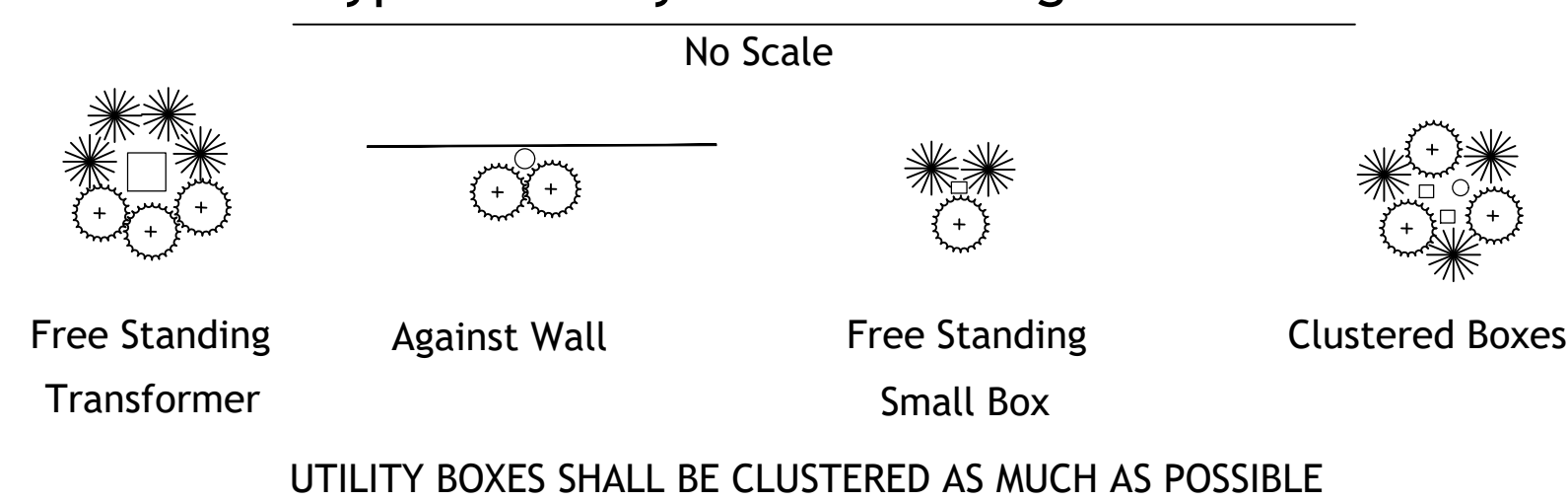
INTERIOR PARKING
TOTAL PARKING SURFACE = 80,928 SF
REQUIRED
5% LANDSCAPE AREA = 4,046 SF
PROVIDED = 5,530 SF

OPEN SPACE TREES
OPEN SPACE = 30,819SF
REQUIRED
TREES 1 / 5,000SF = 6
SHRUBS 2 / 5,000SF = 12

PROVIDED
SHADE TREES = 17
SHRUBS = 20



Typical Utility Box Screening Details

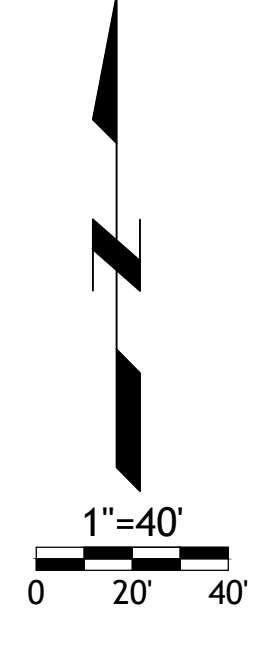
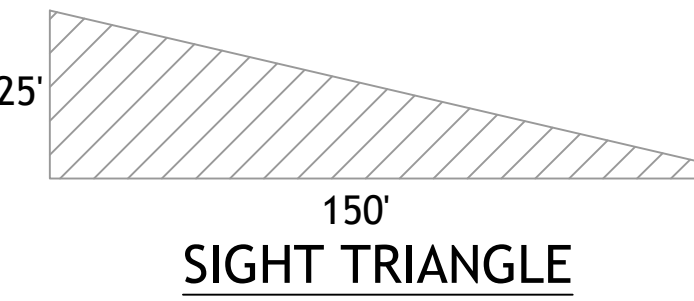


Shrub List

Symbol	Quantity	Common Name	Botanical Name	Size	Condition	Spacing
⊙	45	Seagreen Juniper	Juniperus Chinensis 'Seagreen'	18"-24"sp.	Cont.	4'o.c.
⊗	35	Dwarf Winged Euonymus	Euonymus Alatus 'Compactus'	18"-24"sp.	Cont.	4'o.c.
*	30	Morning Light Maiden Grass	Miscanthos Sinensis 'Morning Light'	18"-24"sp.	Cont.	4'o.c.

Tree List

Symbol	Quantity	Common Name	Botanical Name	Size	Condition	Spacing
⊕	12	October Glory Maple	Acer Rubrum 'October Glory'	3" cal	BB	As Shown
⊕	12	Skyline Honeylocust	Gleditsia Triacanthos 'Skyline'	3" cal	BB	As Shown
⊕	18	Cercis Ruby Falls (Redbud)	Cercis canadensis 'Ruby Falls'	3"cal	BB	As Shown



LOT 13A OF WEST PRYOR
LEES SUMMIT, MISSOURI