

SITE DEVELOPMENT PLANS
FOR
ANDY'S FROZEN CUSTARD
ADDRESS: 630 N.W. CHIPMAN ROAD
IN THE CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI



FIRE ACCESS ROAD NOTE:

ALL FIRE ACCESS LANES SHALL BE HEAVY DUTY ASPHALT CAPABLE OF SUPPORTING 75,000--POUNDS.

OIL-GAS WELLS:

ACCORDING TO THE MISSOURI DEPARTMENT OF NATURAL RESOURCES STATE OIL & GAS COUNCIL WELLS, LOCATED AT www.dnr.mo.gov/geosrv/geosrv/oilandgas.htm, THERE ARE NO OIL OR GAS WELLS ON THE PROPERTY SHOWN HEREON.

PRE-CONSTRUCTION MEETING NOTE:

THE CONTRACTOR SHALL CONTACT THE CITY'S DEVELOPMENT SERVICES ENGINEERING INSPECTION TO SCHEDULE A PRE-CONSTRUCTION MEETING WITH A FIELD ENGINEERING INSPECTOR PRIOR TO ANY LAND DISTURBANCE WORK AT (816) 969-1200.

UTILITY COMPANIES:

MISSOURI GAS ENERGY (816) 969-2218
LUCAS WALLS (LUCAS.WALLS@SUG.COM)
3025 SOUTHEAST CLOVER DRIVE
LEE'S SUMMIT, MO 64082

EVERGY (816) 347-4339
PHILLIP INGRAM (PHILLIP.INGRAM@KCPL.COM)
RON DEJARNETTE (RON.DEJARNETTE@KCPL.COM) (816) 347-4316
1300 HAMLEN ROAD
LEE'S SUMMIT, MO 64081

STORM SEWER (PUBLIC WORKS DEPARTMENT) (816) 969-1800
220 SE GREEN STREET
LEE'S SUMMIT, MO 64063

SANITARY SEWER & WATER (WATER UTILITIES DEPT.) (816)-969-1900
1200 SE HAMLEN ROAD,
LEE'S SUMMIT, MO 64081

AT&T (913) 383-4929
MR. CLAYTON ANSPAUGH (CA4089@ATT.COM) (913) 383-4849-FAX
9444 NALL AVENUE
OVERLAND PARK, KANSAS 66207



UTILITY NOTES:
VISUAL INDICATIONS OF UTILITIES ARE AS SHOWN.
UNDERGROUND LOCATIONS SHOWN, AS FURNISHED BY THEIR LESSORS, ARE APPROXIMATE AND SHOULD BE VERIFIED IN THE FIELD AT THE TIME OF CONSTRUCTION. FOR ACTUAL FIELD LOCATIONS OF UNDERGROUND UTILITIES CALL 811.

Know what's below.
Call before you dig.

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PL2024098
PRCOM20242275

LEGAL DESCRIPTION:

LOT 10E, SUMMIT FAIR, LOTS 10D - 10F, A SUBDIVISION IN THE CITY OF LEE'S SUMMIT, JACKSON COUNTY, MISSOURI, ACCORDING TO THE RECORDED PLAT THEREOF.

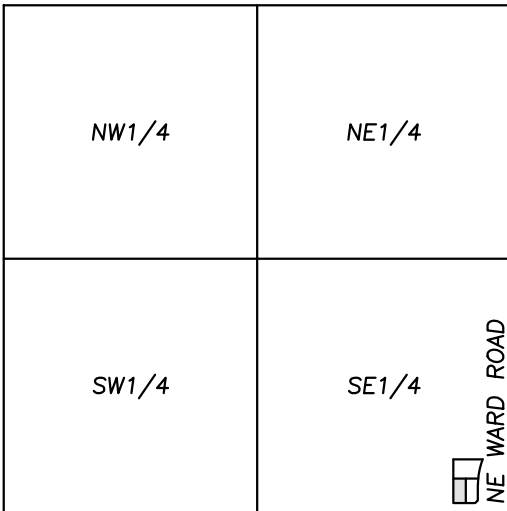
AREA = ±0.7686 ACRES / ±33,476 SQ.FT.

PREPARED & SUBMITTED BY:

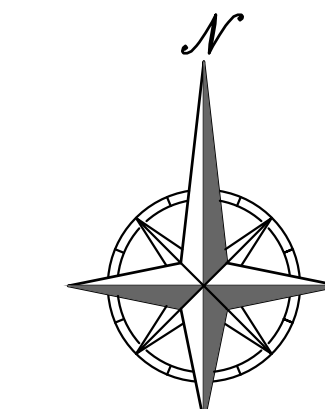
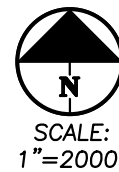
PHELPS ENGINEERING, INC.
1270 N. WINCHESTER
OLATHE, KS 66061
913-393-1155 OFFICE
913-393-1166 FAX
CONTACT: JUDD CLAUSSEN, P.E.

DEVELOPER:

ANDY'S FROZEN CUSTARD
211 E. WATER ST.
SPRINGFIELD, MO 65806
417-986-3585
CONTACT: LIANA MOORE



VICINITY MAP
SEC. 36-48-32



SCALE: 1"=100'
0' 100' 200'



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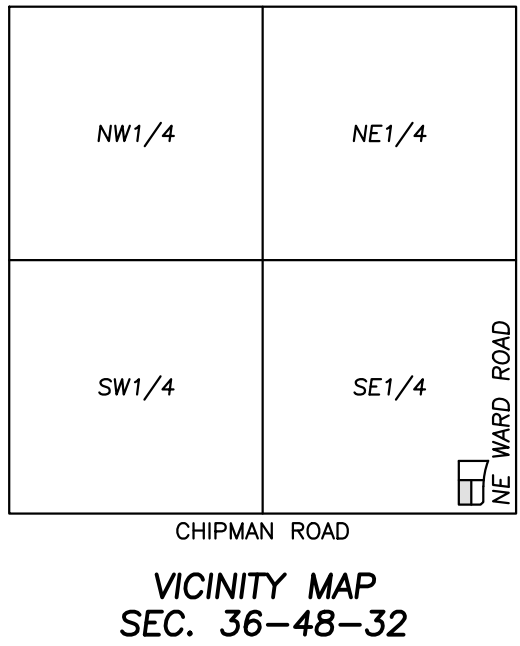


COVER SHEET
ANDY'S FROZEN CUSTARD
630 NW CHIPMAN ROAD
LEE'S SUMMIT, MISSOURI

















PROJECT NO.	240159	No.	Date	Revisions:	By	App.
DATE: 04-12-2024	DRAWN: AEB	1.	05-10-2024	REVIEWED PER CITY COMMENTS	AEB	DAF
CHECKED: DAF	APPROVED: JDC	2.	05-30-2024	REVIEWED PER CITY COMMENTS	AEB	DAF
CERTIFICATE OF AUTHORIZATION						
LAND SURVEYING - LS-82						
ENGINEERING - E-361						
CERTIFICATE OF AUTHORIZATION						
LAND SURVEYING-200701028						
ENGINEERING-200700028						

SHEET

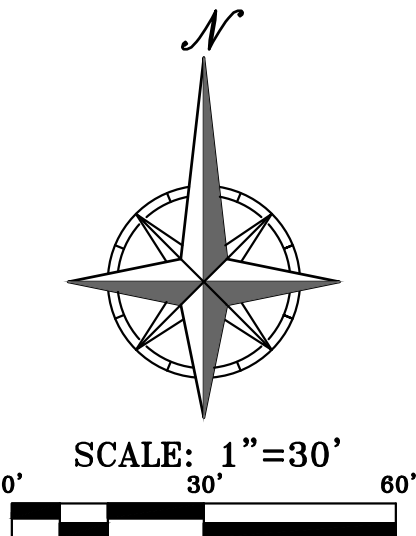
C0



CONTRACTOR TO PERFORM REMOVAL OF BACK OF CURB

<u>LEGEND</u>	
	PROPERTY LINE
	LOT LINE
	RIGHT-OF-WAY
	REMOVE EXISTING TEMPORARY ASPHALT CURB
	EXISTING BURIED TELEPHONE
	EXISTING CABLE TELEVISION LINE
	EXISTING FIBER OPTIC LINE
	EXISTING WATER LINE
	EXISTING GAS LINE
	EXISTING BURIED ELECTRIC
	EXISTING OVERHEAD POWER LINE
	EXISTING SANITARY SEWER
	EXISTING STORM SEWER
	EXISTING FIRE HYDRANT
	EXISTING LIGHT POLE
	EXISTING CHAIN LINK FENCE

RELEASED FOR CONSTRUCTION
As Noted on Plan Review
Development Services Department
Lee's Summit, Missouri
06/18/2024



1. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL (IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES) ALL CURBS, PARKING, DRIVES, DRAINAGE STRUCTURES, DRIVEWAYS, SIDEWALKS, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL.
2. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
3. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE.
4. CONTRACTOR MUST COORDINATE WITH OWNER PRIOR TO ANY CONSTRUCTION TO ESTABLISH CUSTOMER ACCESS AND TRAFFIC FLOW DURING ALL PHASES.



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Project No.	Date	Revisions	Appr.
1. 05-10-2024	REVISED PER CITY COMMENTS	ABE	DAF
2. 05-30-2024	REVISED PER CITY COMMENTS	ABE	DAF

PROJECT NO. 24-0156
 DATE: 04-19-2024 (DRAWING)
 PROJECT NO. 24-0156
 CHECKED: DAF
 CERTIFICATE OF AUTHORIZATION
 LAND SURVEYING - LS-82
 ENGINEERING - E-361
 REVISION DATE OF AUTHORIZATION
 REVISION DATE OF AUTHORIZATION
 EXPIRATION DATE 06/30/2028


SHEET

CO.1



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SCALE: 1"=30'



A horizontal graphic scale bar with alternating black and white segments. It is marked with '0'' at the left end, '30'' in the middle, and '60'' at the right end.



BY	Agg	Revisions:	Date	No.	Agg
AEF	DAF	REVISED PER CITY COMMENTS	05-10-2024	240151	PROJECT #24-0124-024
AEF	DAF	REVISED PER CITY COMMENTS	05-30-2024	2	DATE OF APPROVAL: DEC 2, 2024
					CERTIFICATE OF AUTHORIZATION
					LAND SURVEYING - LS-80
					ENGINEERING - E-351
					CERTIFICATE OF AUTHORIZATION
					LAND SURVEYING - LS-80
					ENGINEERING - E-351

C1

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65' PRIVATE UTILITY & ACCESS
ESMT, DOC. 2022E0053338

LOT 27B
SUMMIT FAIR -
LOTS 27A & 27B

NW OUTVIEW ROAD
(PRIVATE)

VAULT

POST

EX. SSWR
MH 22-149

EX. SSWR
MH 22-148

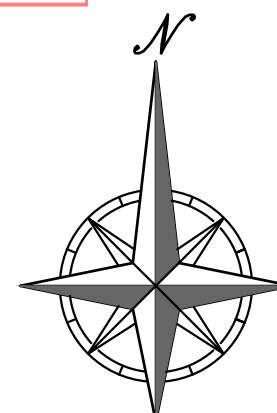
FUTURE LOT 1 DE
ANDY'S
FROZEN CUSTARD
1-STORY BLDG.
1,980 S.F.

DO NOT ENTER

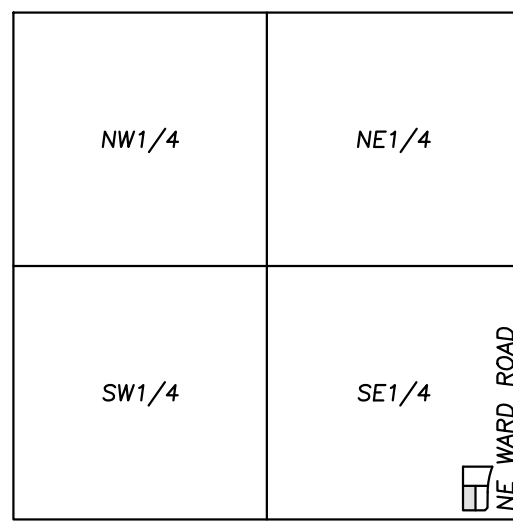
LEGEND

- PL — PROPERTY LINE
- LL — LOT LINE
- R/W — RIGHT-OF-WAY
- 6" CONCRETE CURB
- PROPOSED BUILDING
- CONCRETE PAVEMENT
- CONCRETE SIDEWALK

RELEASED FOR CONSTRUCTION
As Noted on Plan Review
Development Services Department
Louis Suemmi, Missouri
06/18/2024



SCALE: 1"=10'
0' 10' 20'



VICINITY MAP
SEC. 36-48-32

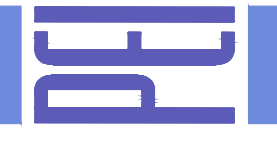
SITE KEY NOTES:

- (A) CONSTRUCT PRIVATE 6" MONOLITHIC CONCRETE CURB.
- (B) CONSTRUCT PRIVATE CONCRETE SIDEWALK (TYPICAL). SEE "PRIVATE CONCRETE SIDEWALKS (NON-REINFORCED)" DETAIL ON SHEET 7.1.
- (C) INSTALL ACCESSIBLE PAVEMENT MARKINGS PER ADA SPECIFICATIONS. SEE "ACCESSIBLE PARKING SPACE DETAIL" DETAIL ON SHEET C7.2.
- (D) INSTALL VAN ACCESSIBLE PARKING SIGN. SEE "ACCESSIBLE SIGN" DETAILS ON SHEET C7.2.
- (E) INSTALL ONE BIKE RACK FOR 2 SPACES.
- (F) INSTALL SPEED TABLE W/ SCORED CONCRETED CROSSWALK. SEE "CROSSWALK DETAIL" ON SHEET C7.1.
- (G) INSTALL CONCRETE PAVEMENT. SEE "CONCRETE PAVING" DETAIL ON SHEET C7.
- (H) INSTALL TRASH ENCLOSURE (RE: ARCHITECT PLANS).
- (I) CONSTRUCT ELECTRICAL UTILITY PAD (RE: EVERY WORKORDER).
- (J) INSTALL MONUMENT SIGN (RE: SITE SIGNAGE PLANS).
- (K) INSTALL PRE-ORDER MENU BOARD (RE: SITE SIGNAGE PLANS).
- (L) INSTALL CLEARANCE BAR (RE: SITE SIGNAGE PLANS).
- (M) PICK-UP WINDOW (RE: ARCHITECT PLANS).
- (N) CONSTRUCT PRIVATE ACCESSIBLE SIDEWALK CURB RAMP (OMIT DETECTABLE WARNING). SEE "PRIVATE SIDEWALK RAMP DETAIL" ON SHEET C7.1.
- (O) INSTALL 25 FT TALL FLAG POLE (RE: SITE SIGNAGE PLANS).
- (P) INSTALL PEDESTRIAN BENCH (SEE SHEET C7.4 FOR DETAILS).
- (Q) INSTALL FENCE (SEE SHEET C7.4 FOR DETAILS).
- (R) CONSTRUCT 24" WIDE PRIVATE CONCRETE SIDEWALK "RUNNER" STRIP ALONG DRIVE THRU.
- (S) CONSTRUCT CONCRETE STAIRS W/ HANDRAIL ON BOTH SIDES. SEE "CONCRETE STAIRS DETAIL" ON SHEET C7.6.
- (T) INSTALL DIRECTIONAL SIGNAGE (RE: SITE SIGNAGE PLANS).
- (U) INSTALL PUBLIC CONCRETE SIDEWALK.
- (V) INSTALL PUBLIC CONCRETE SIDEWALK RAMP. SEE "ADA RAMP" DETAIL ON SHEET C7.6.
- (W) CONSTRUCT PRIVATE TEMPORARY ASPHALT CURB IF ADJACENT CONSTRUCTION ACTIVITY IS NOT UNDERWAY OR EMINENT. SEE DETAIL "TEMPORARY ASPHALT CURB" ON SHEET C7.
- (X) INSTALL PUBLIC CONCRETE SIDEWALK ADJOINING EXISTING JUNCTION BOX. SEE "SIDEWALK ADJACENT TO EX. STORM STRUCTURE" DETAIL ON SHEET C7.6.
- (Y) INSTALL DRIVE THRU LOOP DETECTOR (RE: MEP PLANS FOR DETAILS).



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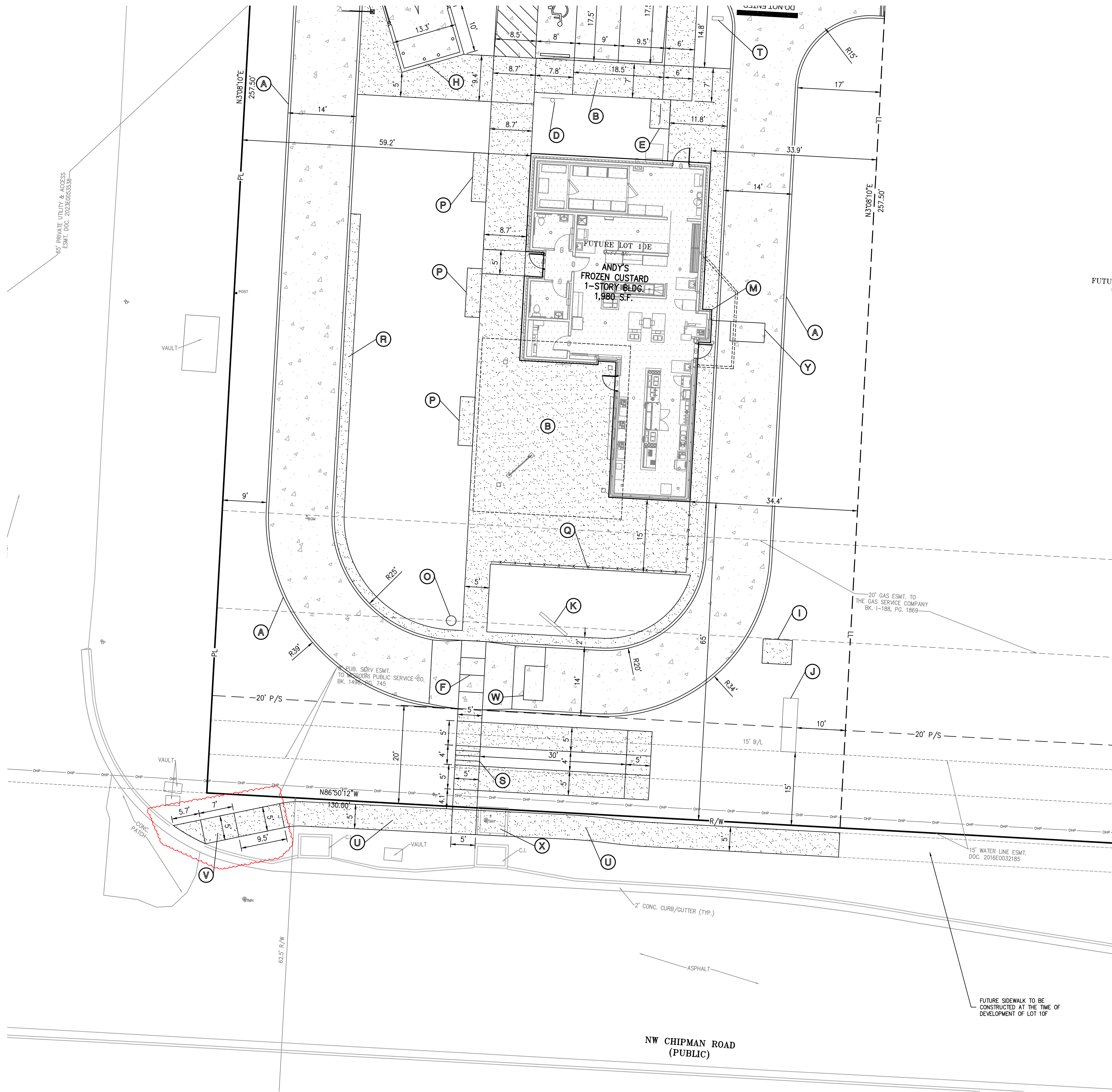
ENLARGED SITE PLAN
ANDY'S FROZEN CUSTARD
630 NW CHIPMAN ROAD
LEE'S SUMMIT, MISSOURI

PROJECT NO.	240159	No.	Date	Revisions:	By	App.
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CERTIFICATE OF AUTHORIZATION						
LAND SURVEYING - LS-82						
ENGINEERING - E-361						
CERTIFICATE OF AUTHORIZATION						
LAND SURVEYING-20070128						
ENGINEERING-20070028						

SHEET

C1.1

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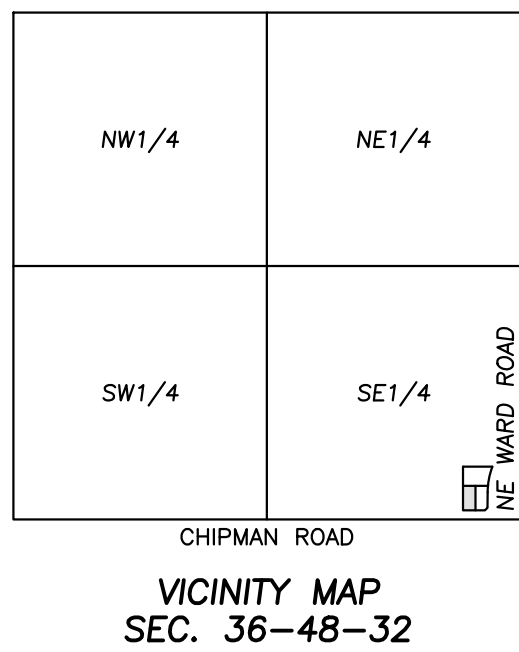
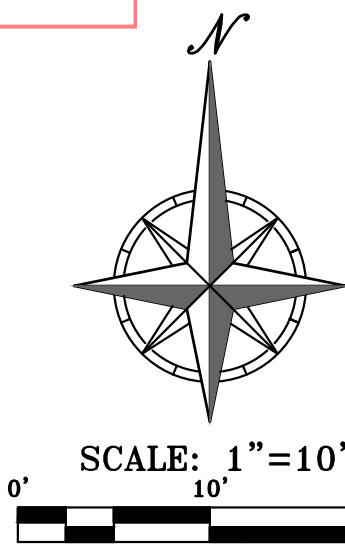
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LEGEND

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- 6" CONCRETE CURB
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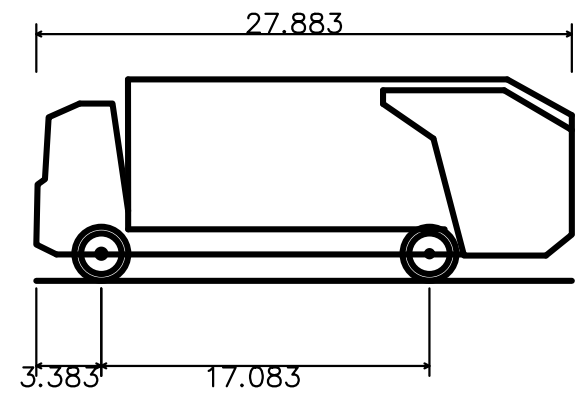
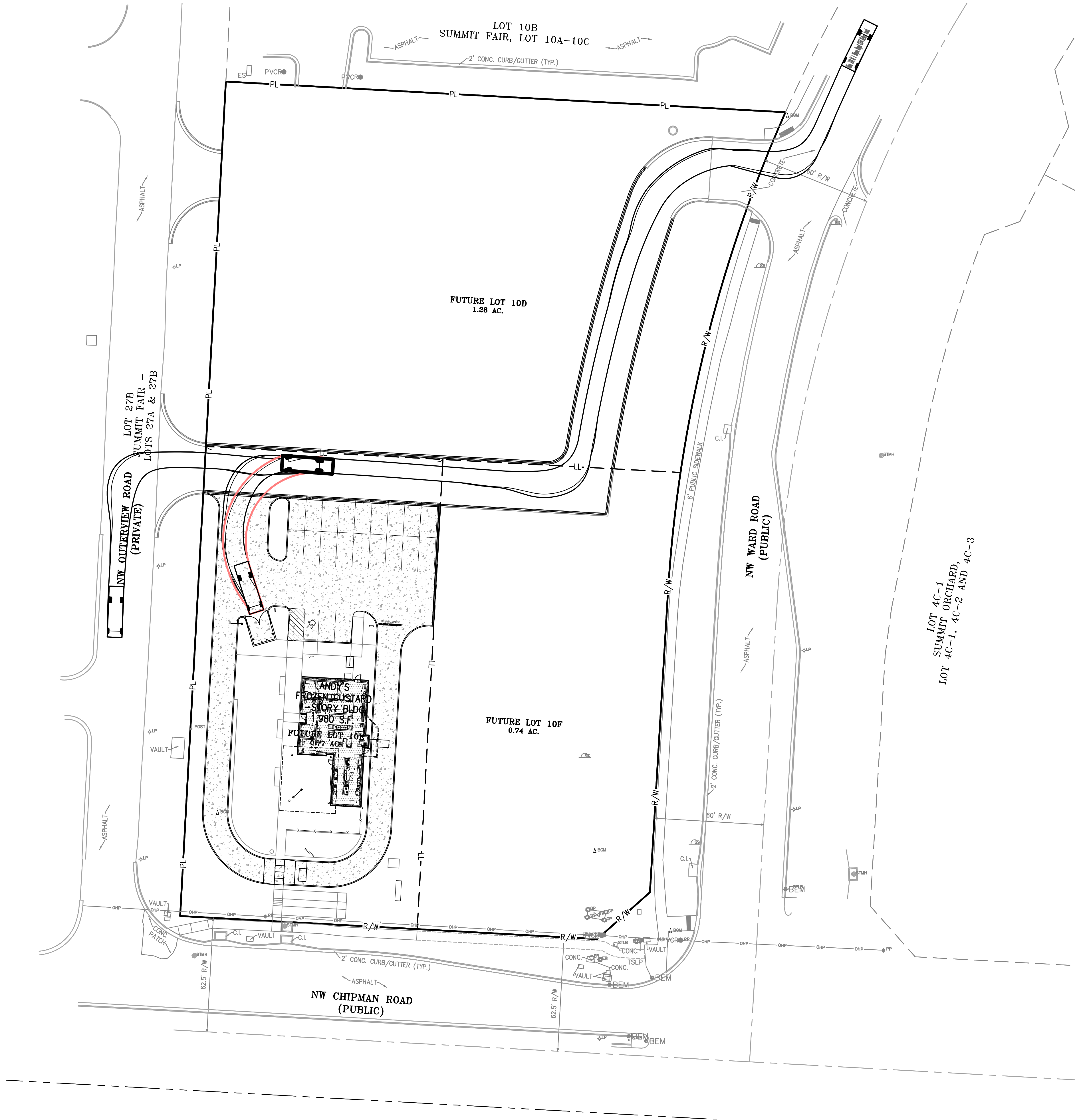
ENLARGED SITE PLAN
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			By	App.
240159	1.	05-10-2024	AEB	DAF
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	3.	06-18-2024		
	4.	06-18-2024		
DATE: 04-12-2024 DRAWN: AEB CHECKED: DAF APPROVED: JDC				
CERTIFICATE OF AUTHORIZATION				
LAND SURVEYING - LS-82				
ENGINEERING - E-361				
CERTIFICATE OF AUTHORIZATION				
LAND SURVEYING - 200701028				
ENGINEERING - 200700209				

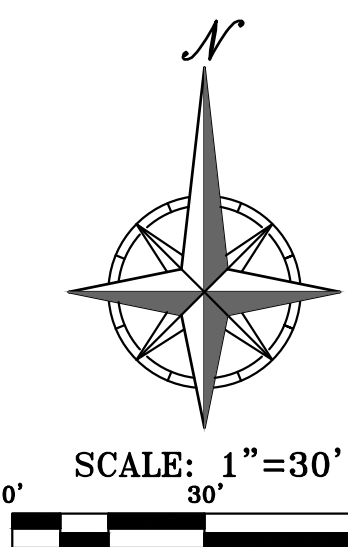
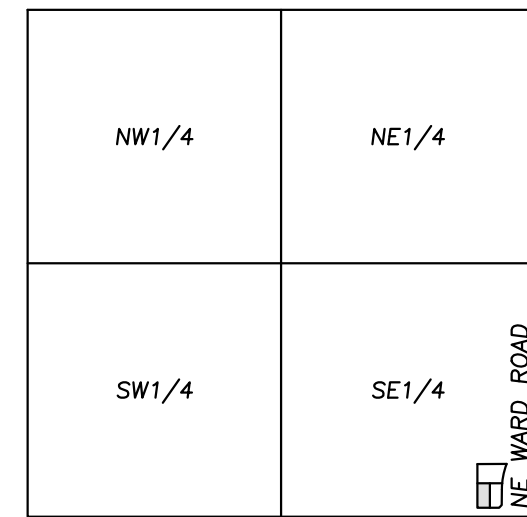
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\\PHILIPS-SERVER\Projects\Projects\240159\Drawings\Permit Plans\TRUCK TURN.dwg Layout1 May 31, 2024 - 2:33pm Daniel Finn



Hino 338 M + Wayne Royal GT14 Refuse Truck
Overall Length 27.883ft
Overall Width 8.042ft
Overall Body Height 10.488ft
Min Body Ground Clearance 1.318ft
Track Width 8.042ft
Lock-to-lock time 6.00s
Curb to Curb Turning Radius 27.400ft



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06/15/2024



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TRUCK TURN PLAN
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CORPORATE DATE OF AUTHORIZATION						
LAND SURVEYING - LS-82						
ENGINEERING - E-361						
CERTIFICATE DATE OF AUTHORIZATION						
LAND SURVEYING - 2007001028						
ENGINEERING - 2007000038						

SHEET

C1.3

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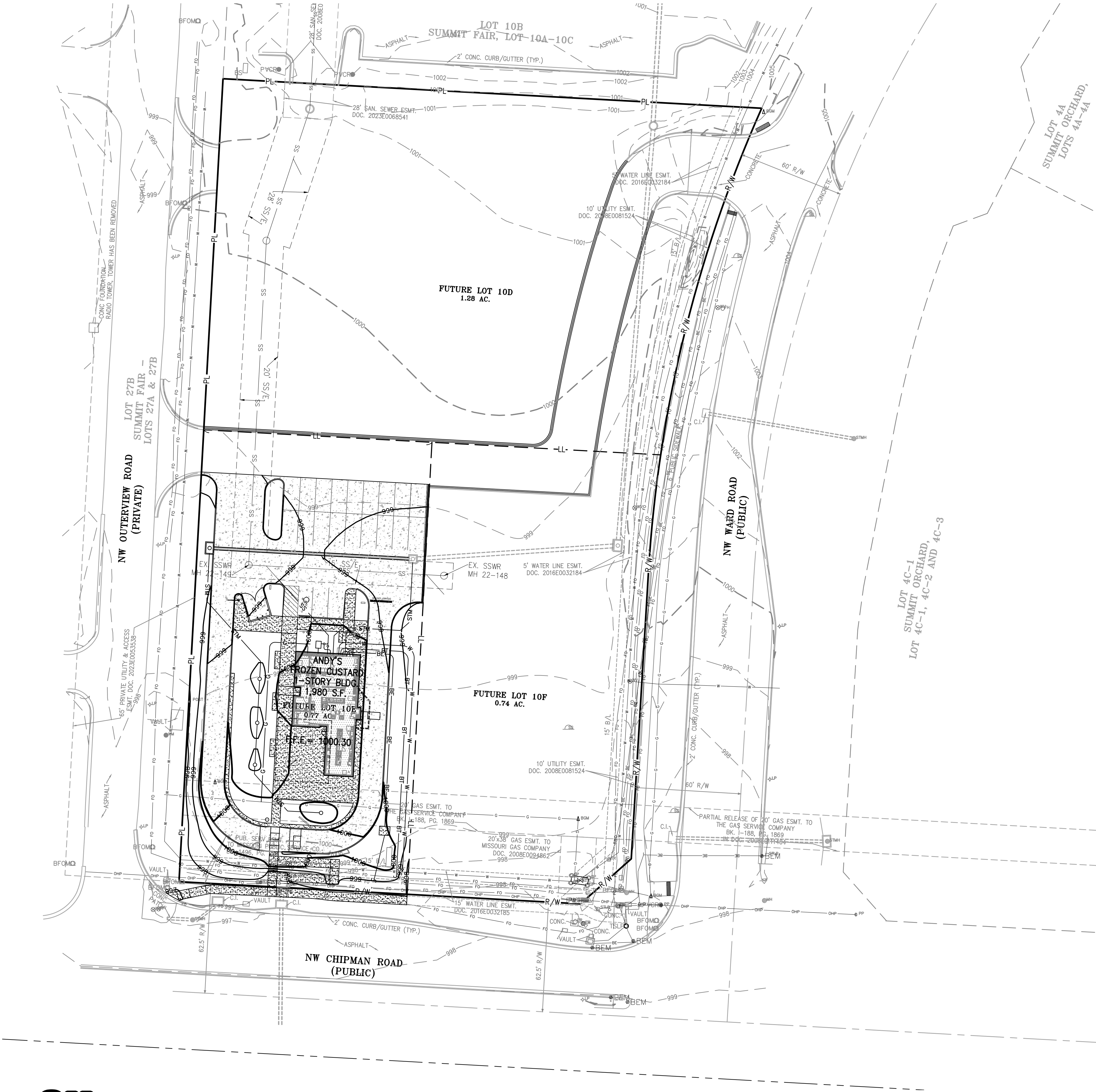


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Call before you dig.

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FLOOD NOTE:

THIS PROPERTY LIES WITHIN ZONE X, DEFINED AS AREAS DETERMINED TO BE OUTSIDE THE
0.2% ANNUAL CHANCE FLOODPLAIN, AS SHOWN ON THE FLOOD INSURANCE RATE MAP
PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY FOR THE CITY OF LEE'S
SUMMIT, COMMUNITY NO. 290174, JACKSON COUNTY, MISSOURI, MAP NO. 29095C04176, AND
DATED JANUARY 20, 2017.



SITE GRADING NOTES:

1. CONTOURS AND ELEVATIONS: Existing and proposed contours are shown on plans at one foot (1') contour intervals, unless otherwise noted. proposed contours and elevations shown represent approximate finish grade. Contractor shall hold down subgrades to allow for pavement and sub-base thicknesses.
2. If the contractor does not accept existing topography as shown on the plans, without exception, he shall have made at his expense, a topographic survey by a registered land surveyor and submit it to the owner for review.
3. CLEARING AND GRUBBING: Prior to beginning preparation of subgrade, all areas under pavements or building shall be stripped of all topsoil, vegetation, large rock fragments (greater than 6 inches in any dimension) and any other deleterious material. The actual stripping depth should be based on visual examination during construction and the results of proof-rolling operations. The root systems of all trees (not designated to remain) shall be removed in their entirety. Stripping materials shall not be incorporated into structural fills.
4. TOPSOIL STRIPPING: Prior to the start of site grading, the contractor shall strip all topsoil from areas to be graded, and stockpiled at a location on or adjacent to the site as directed by the owner. At completion of grading operations and related construction, the contractor will be responsible for redistribution of the construction activities. Topsoil shall be placed to a minimum depth of six inches (6") and in accordance with specifications for landscaping. At that time, and prior to the installation of landscaping or irrigation, all topsoil graded areas shall be visually inspected and accepted by the owner and I.T.L.
5. Contractor shall adjust and/or cut existing pavement as necessary to assure a smooth fit and continuous grade. Contractor shall assure positive drainage away from buildings for all natural and paved areas.
6. SUBGRADE PREPARATION: Prior to placement of new fill material, the existing subgrade shall be proofrolled and approved under the direction of the Geotechnical Engineer or his representative.
7. PROOFROLLING: Subsequent to completion of stripping and over-excavation, all building and pavement areas to receive engineered fill should be systematically proof-rolled using a tandem axle dump truck loaded to approximately 20,000 pounds per axle. Also, any finished subgrade areas to receive paving shall be proof-rolled within 48 hours of paving. Unsuitable soils that are detected and that can not be recompacted should be over-excavated and replaced with controlled structural fill.
8. EARTHWORK:
 - A) GEOTECHNICAL: All earthwork shall conform to the recommendations of the Geotechnical report. Said report and its recommendations are herein incorporated into the project requirements by reference. Prior to beginning construction, the contractor shall obtain a copy of and become familiar with the geotechnical report. Unless specifically noted on the plans, the recommendations in the geotechnical report are hereby incorporated into the project requirements and specifications.
 - B) SURFACE WATER: Surface water shall be intercepted and diverted during the placement of fill.
 - C) FILLS: All fills shall be considered controlled or structural fill and shall be free of vegetation, organic matter, topsoil and debris in areas where the thickness of the engineered fill is greater than five feet building and pavement construction should not commence until so authorized by the on-site geotechnical engineer to allow for consolidation.
 - D) BUILDING SUBGRADE: As specified in the Geotechnical Engineering Report, the upper section of building subgrade shall consist of Low Volume Change (LVC) material defined as approved, compacted granular fill or low to moderate plasticity cohesive soil materials stabilized with Class C Flyash. Granular fill shall consist of compacted granular materials with a maximum particle size of two (2) inches or less, such as limestone screenings. Refer to geotechnical report for complete requirements.
 - E) EXISTING SLOPES: Where fill material is to be placed on existing slopes greater than 5:1 (horizontal to vertical), existing slope shall be benched providing a minimum vertical face of twelve inches (12"). The benches should be cut wide enough to accommodate the compaction equipment. Fill material shall be placed and compacted in horizontal lifts not exceeding nine inches (9") (loose lift measurement), unless otherwise approved by the Geotechnical Engineer.
 - F) COMPACTION REQUIREMENTS: The upper 9 inches of pavement subgrade areas shall be compacted to a minimum density of ninety five percent (95%) of the material's maximum dry density as determined by ASTM D698 (standard proctor compaction). The moisture content at the time of placement and compaction shall within a range of 0% below to 4% above optimum moisture content as defined by the standard proctor compaction procedure. The moisture contents shall be maintained within this range until completion of the work. Where compaction of earth fill by a large roller is impractical or undesirable, the earth fill shall be hand compacted with small vibrating rollers or mechanical tampers.
9. All cut or fill slopes shall be 3:1 or flatter. All asphalt parking areas shall be a minimum of 1% slope but not more than 5% slope unless otherwise noted. All pavements within ADA parking areas shall not exceed 2% total slope. All grades around building shall be held down 6" from finish floor and slope away another 6" in 10 feet. Contractor shall notify engineer prior to final subgrade construction of any areas not within this slope requirement.
10. TESTING AND INSPECTION: Owner's Independent Testing Laboratory (ITL) shall make tests of earthwork during construction and observe the placement of fills and other work performed on this project to verify that work has been completed in accordance with Geotechnical Engineering Report, Project Specifications and within industry standards. The ITL will be selected by the owner and the cost of testing will be the owner's responsibility.
11. CLASSIFICATION: All excavation shall be considered unclassified. No separate or additional payments shall be made for rock excavation.
12. PERMANENT RESTORATION: All areas disturbed by earthwork operations shall be sodded, unless shown otherwise by the landscaping plan or erosion control plan.
13. UTILITIES: 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 companies at least 48 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 the proposed improvements shown on the plans.
14. LAND DISTURBANCE: The contractor shall adhere to all terms & conditions as outlined in the EPA or applicable state N.P.D.E.S. permit for storm water discharge associated with construction activities. Refer to project S.W.P.P.P. requirements.

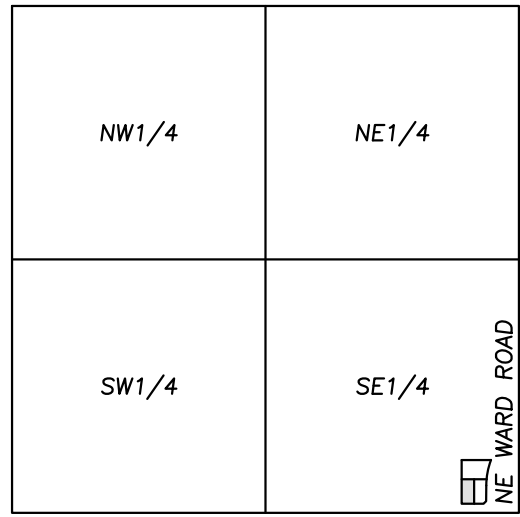
Earthwork Summary SUMMIT FAIR LOT 10-E 5/9/2024

Raw Excavation	10 Cu. Yds.
In Place Compaction (+15%)	-582 Cu. Yds.
Pavement Adjustment	538 Cu. Yds. (assume 10' of additional excavation)
Building Adjustment	147 Cu. Yds. (assume 24" of additional excavation)
On Site Net	113 Cu. Yds.

* EARTHWORK COMPUTATIONS BY PHELPS ENGINEERING, INC. ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY AND SHALL BE VERIFIED BY CONTRACTORS BY THEIR CHOSEN METHOD PRIOR TO PLACING BID. ALL EARTHWORK SHALL BE CONSIDERED UNCLASSIFIED. 15% WAS ADDED INTO RAW FILL QUANTITY TO ACCOUNT FOR SHRINKAGE.

LEGEND

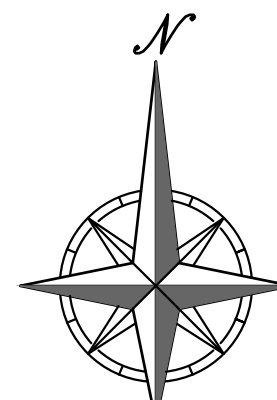
- PL PROPERTY LINE
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- R/W RIGHT-OF-WAY
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- PROPOSED SPOT ELEVATION
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- PROPOSED WET CURB & GUTTER
- PROPOSED DRY CURB & GUTTER



VICINITY MAP
SEC. 36-48-32

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
06/19/2024

SCALE: 1"=2000'

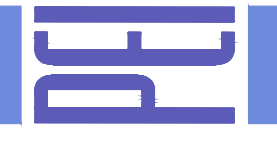


SCALE: 1"=30'
0' 30' 60'



PHELPS ENGINEERING, INC.
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Olathe, Kansas 66061
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OVERALL GRADING PLAN
ANDY'S FROZEN CUSTARD
630 NW CHIPMAN ROAD
LEE'S SUMMIT, MISSOURI

PROJECT NO.	240159	No.	Date	Revisions:	By	App.
DATE: 04-12-2024	DRAWN: AEB	1.	05-10-2024	REVISED PER CITY COMMENTS	AEB	DAF
CHECKER: DAF	APPROVED: JDC	2.	05-30-2024	REVISED PER CITY COMMENTS	AEB	DAF
CERTIFICATE OF AUTHORIZATION						
LAND SURVEYING - LS-82						
ENGINEERING - E-361						
CERTIFICATE OF AUTHORIZATION						
LAND SURVEYING-200701028						
ENGINEERING-200700329						

SHEET

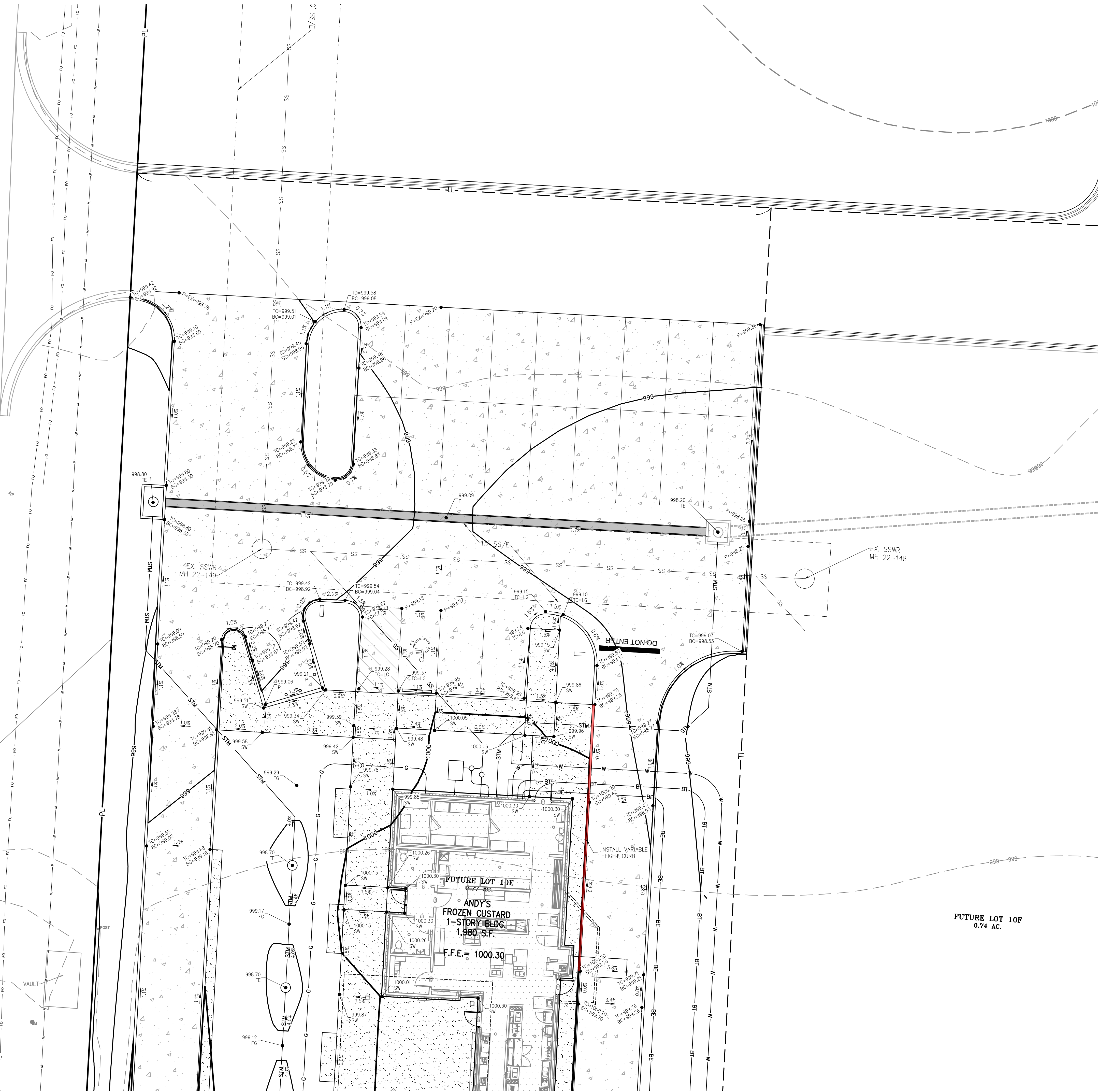
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\\PHELPS-SERVER\Projects\Projects\140159\Drawings\Permit Plans\GRADING.dwg Layout2 May 31, 2024 - 2:32pm Daniel Finn

65' PRIVATE UTILITY & ACCESS
ESMT 0.0% 20230505338

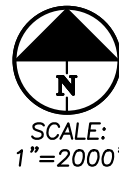
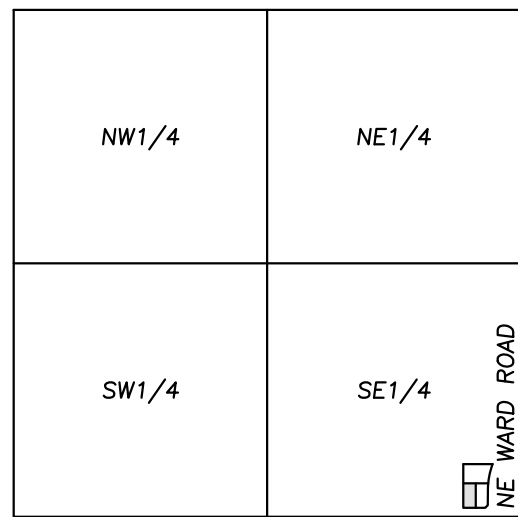
LOT 27B
SUMMIT FAIR -
LOTS 27A & 27B

NW OUTVIEW ROAD
(PRIVATE)



Know what's below.
Call before you dig.

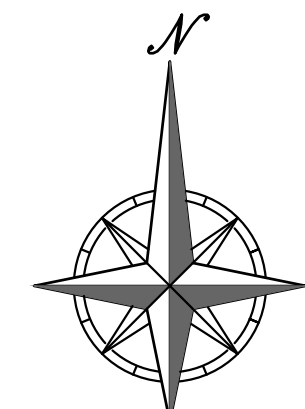
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LEGEND

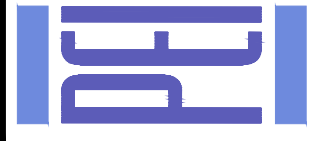
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RELEASED FOR CONSTRUCTION
As Shown on Plan Review
Development Services Department
Lee's Summit, Missouri
05/18/2024



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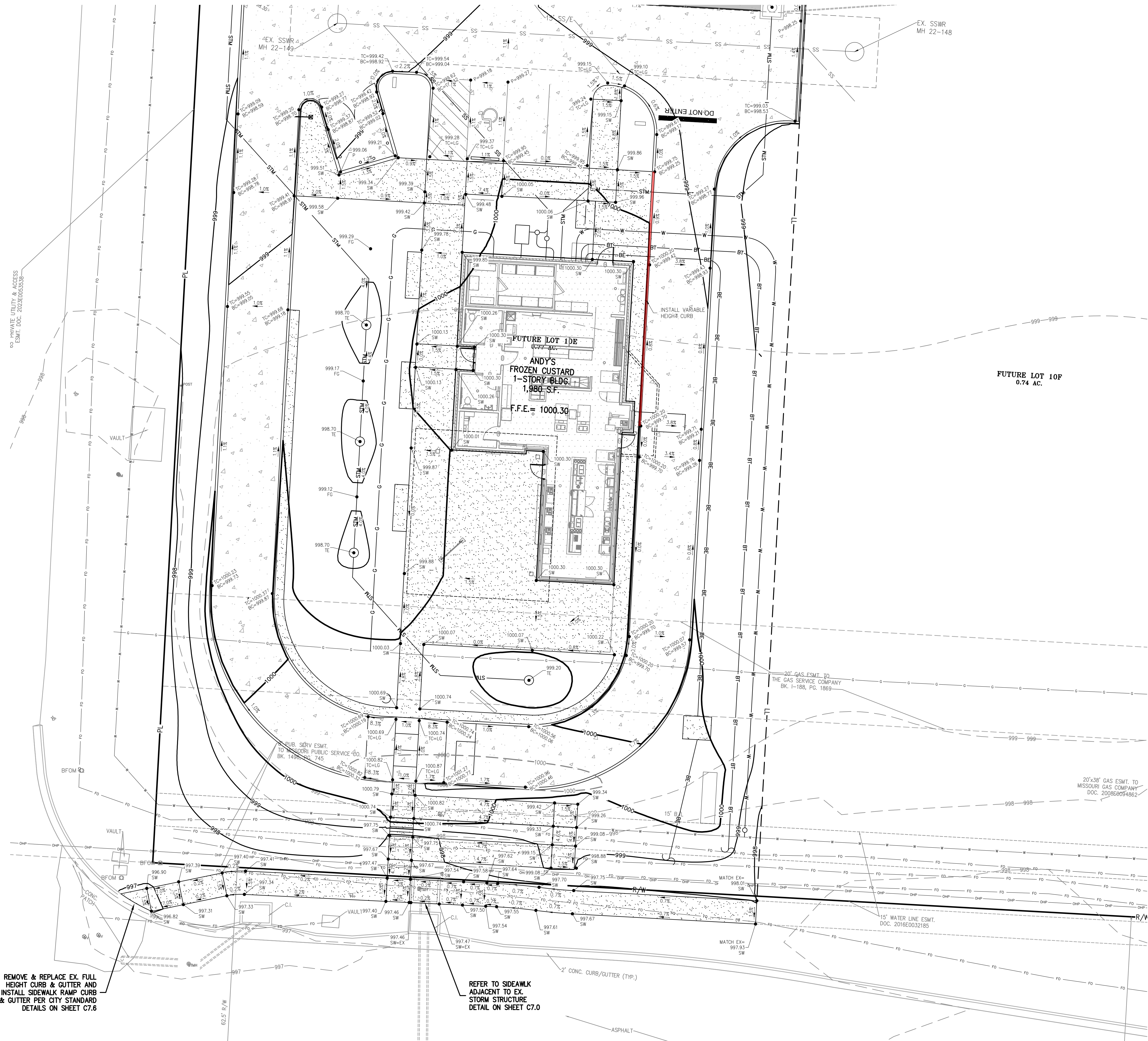


ENLARGED GRADING PLAN
ANDY'S FROZEN CUSTARD
630 NW CHIPMAN ROAD
LEE'S SUMMIT, MISSOURI

PROJECT NO.	240159	No.	Date	Revisions:	By	App.
DATE: 04-12-2024	DRAWN: AEB	1.	05-10-2024	REVISED PER CITY COMMENTS	AEB	DAF
CHECKED: DAF	APPROVED: JDC	2.	05-30-2024	REVISED PER CITY COMMENTS	AEB	DAF
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LAND SURVEYING-20070028						

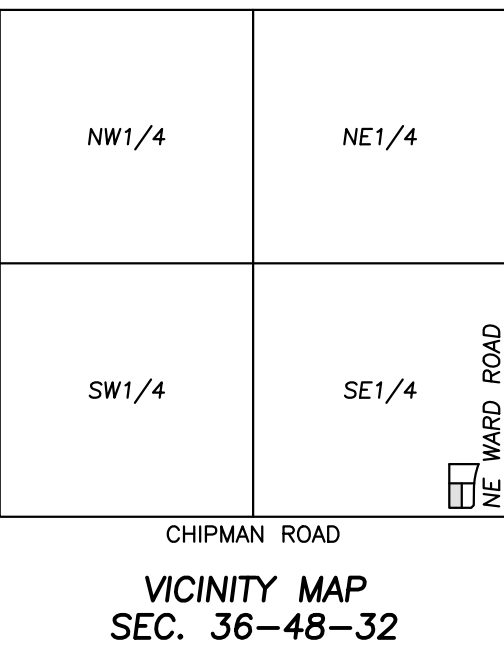
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Know what's below.
Call before you dig.

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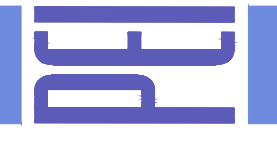
LEGEND

- PL PROPERTY LINE
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630 NW CHIPMAN ROAD
LEE'S SUMMIT, MISSOURI

PROJECT NO.	240159	No.	Date	By	App.
DATE 04-12-2024	DRAWN AEB	1	05-10-2024	REVISIONS:	REVISED PER CITY COMMENTS
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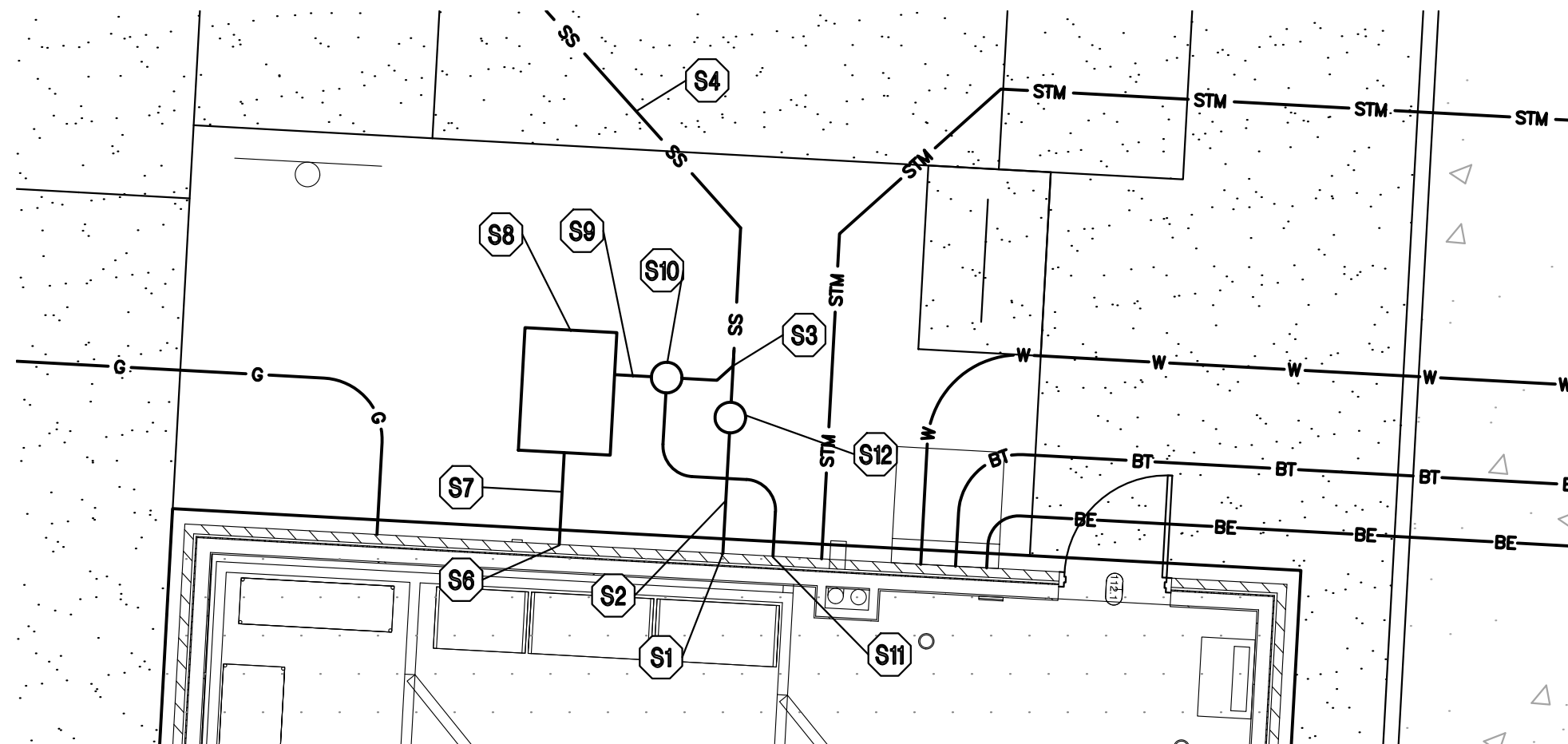


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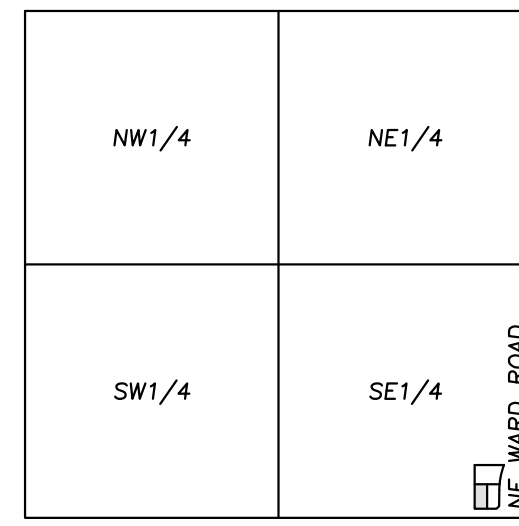
STRUCTURE BACKFILL NOTES:

1. CLSM SHALL BE USED TO BACKFILL AROUND STRUCTURES, SUCH AS MANHOLES, INLETS, JUNCTION BOXES, VAULTS, ETC. CLSM SHALL BE PLACED THE FULL DEPTH OF THE TRENCH BACKFILL ZONE, BUT SHALL BE AT LEAST 6 INCHES BELOW THE BOTTOM OF PREPARED SUBGRADE UNDER PAVEMENTS OR 12 INCHES BELOW THE GROUND SURFACE IN LANDSCAPED AREAS. THE EXTERNAL OPENING SURFACES OF WEEP HOLES SHALL BE COVERED WITH HARDWARE CLOTH AND SURROUNDED WITH A MINIMUM OF THREE CUBIC FEET OF CONSOLIDATED GRANULAR BEDDING MATERIAL.

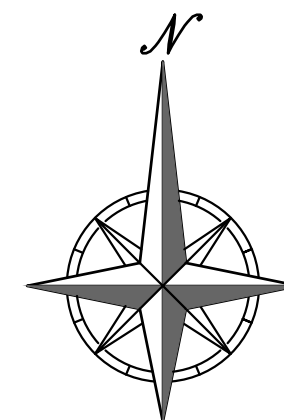


LEGEND

PL	PROPERTY LINE
LL	LOT LINE
R/W	RIGHT-OF-WAY
CAV	EXISTING CABLE TELEVISION LINE
FO	EXISTING FIBER OPTIC LINE
G	EXISTING GAS LINE
BE	EXISTING BURIED ELECTRIC LINE
OHP	EXISTING OVERHEAD POWER LINE
OHT	EXISTING OVERHEAD TELEPHONE LINE
SS	EXISTING SANITARY SEWER LINE
SS	EXISTING STORM SEWER LINE (& SIZE)
BT	EXISTING BURIED TELEPHONE LINE
W-6"	EXISTING WATER LINE (& SIZE)
SS	PROPOSED SANITARY SEWER LINE
24"HDPE	PROPOSED STORM SEWER LINE (& SIZE)



SCALE: 1"=2000'



SCALE: 1"=30'
0' 30' 60'

UTILITY KEY NOTES:

- D1** PROPOSED 6" INTERNAL ROOF DRAIN CONNECTION. (RE: MEP PLANS). CONNECT TO INTERNAL ROOF DRAIN AND INSTALL UNDERGROUND SECONDARY STORM LINE.
- D2** INSTALL PRIVATE 18" NYOPLAST INLET DRAIN W/ STANDARD GRATE (SEE SHEET C7.3 FOR DETAIL).
- D3** INSTALL HDPE SECONDARY STORM LINE AT 1.0% MINIMUM SLOPE MAINTAINING 12" MINIMUM COVER (TYP). SEE SHEET C5.1 FOR TOP ELEVATIONS AND FLOWLINES.
- E1** FOLLOW ELECTRIC COMPANY WORK ORDER AND SPECIFICATIONS FOR PRIMARY ELECTRICAL SERVICE ROUTING AND CONNECTION TO EXISTING.
- E2** INSTALL CONCRETE TRANSFORMER PAD. CONTRACTOR TO VERIFY EXACT LOCATION AND SIZE WITH ELECTRIC COMPANY PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF CONCRETE PAD AND CONDUIT AS REQUIRED BY THE ELECTRIC COMPANY. CONTRACTOR SHALL COORDINATE SAID WORK WITH THE ELECTRIC COMPANY.
- E3** ELECTRIC ENTRY INTO BUILDING. FOLLOW ELECTRIC COMPANY REQUIREMENTS (RE: BUILDING ELECTRICAL PLAN.)
- E4** CONTRACTOR TO INSTALL CONDUITS TO MENU BOARD & MONUMENT SIGN (RE: BUILDING ELECTRICAL PLANS FOR POWER REQUIREMENTS)
- G1** GAS ENTRY WITH GAS METER. CONTRACTOR SHALL COORDINATE WITH GAS COMPANY FOR TYPING OF INDIVIDUAL METER. SIZE OF GAS MAIN SHALL BE AS DETERMINED BY UTILITY OR AS SHOWN ON BUILDING PLANS. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH GAS COMPANY REGARDING THE SIZE & INSTALLATION OF GAS SERVICE LINE.
- W1** CONTRACTOR TO COORDINATE 1" TAP ON EXISTING 12" MAIN VIA CORPORATION STOP FOR SOFT TYPE "K" COPPER DOMESTIC SERVICE LINE WITH CITY. THE CITY SHALL PERFORM THE TAP OF THE EXISTING MAIN. CONTACT CITY FOR TAPPING REQUIREMENTS. CONTRACTOR TO PAY ALL FEES FOR WATER MAIN TAP. OWNER WILL REIMBURSE CONTRACTOR FOR ACTUAL METER AND SYSTEM DEVELOPMENT FEES ASSESSED BY CITY.
- W2** INSTALL 1" DOMESTIC WATER METER PIT PER CITY REQUIREMENTS. THE CITY SHALL PROVIDE THE METER, THE PIT, AND ALL OTHER MATERIALS NECESSARY FOR THE INSTALLATION. CONTRACTOR TO COORDINATE AND PAY ALL FEES. INSTALLATION BY THE CONTRACTOR'S PLUMBER SHALL BE IN ACCORDANCE WITH CITY STANDARDS. CONTRACTOR SHALL TRANSITION FROM 1" SOFT TYPE "K" COPPER DOMESTIC WATER LINE TO 2" SOFT TYPE "K" COPPER DOMESTIC WATER LINE DOWNSTREAM OF METER.
- W3** 2" SOFT TYPE "K" COPPER DOMESTIC WATER LINE ENTRY TO BUILDING. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ANY APPURTENANCES ON THE DOMESTIC LINE SUCH AS BACKFLOW PREVENTION DEVICES (RE: BUILDING PLANS), GATE VALVES, REDUCERS, BENDS, TEES, ETC., WHICH MAY BE REQUIRED. CONTRACTOR TO COORDINATE WITH THE DEVELOPMENT SERVICES INSPECTOR. CONNECTION MADE BY A CORPORATION STOP.
- W4** CONTRACTOR TO RELOCATE EX. PUBLIC FIRE HYDRANT OUTSIDE OF NEW SIDEWALK. ALL WORK TO BE COORDINATED WITH CITY OF LEE'S SUMMIT PUBLIC WORKS DEPARTMENT.
- CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE TELEPHONE COMPANY FOR THE INSTALLATION OF BURIED TELEPHONE LINES. CONTRACTOR TO PROVIDE ONE (1) - 4" PVC SCH. 40 CONDUITS FROM BUILDING TO R/W. CONTRACTOR TO TERMINATE IN QUARTZ BOX WITH PULL STRING FROM BUILDING TO TELEPHONE FEED POINT. CONTRACTOR TO VERIFY EXACT ROUTING AND FEED POINT WITH TELEPHONE COMPANY.
- S1** CONNECT TO BLDG. INTERIOR PLUMBING SANITARY SEWER LINE. TRANSITION FROM 4" (INTERIOR) TO 6" (EXTERIOR) AT FOUNDATION WALL. (RE: MEP PLANS)
FG=1000.30
FL 6"=996.30
- S2** INSTALL 6 L.F. 6" PVC (SDR-26) SANITARY SEWER SERVICE LINE @ 3.3% SLOPE.
- S3** INSTALL 6"x6"x4" WYE CONNECTION.
FG=1001.20
FL=996.10
- S4** INSTALL 47 L.F. 6" PVC (SDR-26) SANITARY SEWER SERVICE LINE @ 5.2% SLOPE.
- S5** CONNECT TO EXISTING 6" PVC (SDR-26) SANITARY SEWER STUB. FG AT EOS=998.95
FL 6" AT EOS=993.65
- S6** CONNECT TO BLDG. INTERIOR PLUMBING GREASE LINE (RE: MEP PLANS)
FG=1000.30
FL 4"=996.30
- S7** INSTALL 3 L.F. 4" PVC (SDR-26) GREASE LINE @ 3.3% SLOPE.
- S8** INSTALL 98-75 SCHER GREASE INTERCEPTOR (SEE SHEET C7.3 FOR DETAIL)
TE=1000.20
FL 4" IN = 996.20
FL 4" OUT= 996.20
- S9** INSTALL 4 L.F. 4" PVC (SDR-26) GREASE LINE @ 2.5% SLOPE.
- S10** INSTALL SANITARY SEWER SAMPLING PORT (RE: MEP PLANS).
- S11** ROUTE 3" VENT LINE FROM SAMPLING PORT TO BUILDING. (RE: MEP PLANS).
- S12** INSTALL SANITARY SEWER CLEAN OUT IN NON-PAVED AREA (SEE SHEET C7.2 FOR DETAIL)

UTILITY NOTES:

- 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 companies at least 48 hours before any excavation to request exact field location of utilities. It shall be the responsibility of the contractor to coordinate with and relocate &/or remove all existing utilities which conflict with the proposed improvements shown on the plans.
- The construction of storm sewers on this project shall conform to the requirements of the City's Technical Specifications and Design Criteria.
- The contractor shall field verify the exact location and elevation of the existing storm sewer lines and the existing elevation at locations where the proposed storm sewer collects or releases to existing ground. If discrepancies are encountered from the information shown on the plans, the contractor shall contact the design engineer. No pipes shall be laid until direction is received from the design engineer.
- It will be the contractors responsibility to field adjust the top of all manholes and boxes as necessary to match the grade of the adjacent area. Tops of existing manholes shall be raised as necessary to be flush with proposed pavement elevations, and to be 6-inches above finished ground elevations in non-paved areas. No separate or additional compensation will be made to the contractor for making final adjustments to the manholes and boxes.
- Inlet locations, horizontal pipe information and vertical pipe information is shown to the center of the structure. Deflection angles shown for storm sewer pipes are measured from the center of curb inlets and manholes. The contractor shall adjust the horizontal location of the pipes to go to the face of the boxes. All roof drains shall be connected to storm sewer structures. Provide cleanouts on roof drain lines at 100' max. Spacing and at all bend points. Do not connect roof drains directly to storm sewer pipe.
- The contractor shall be responsible for furnishing and installing all fire and domestic water lines, meters, backflow devices, pits, valves and all other incidentals required for a complete operable fire protection and domestic water system. All costs associated with the complete water system for the buildings shall be the responsibility of the contractor. All work shall conform to the requirements of City.
- The contractor shall be responsible for furnishing and installing all sanitary sewer service lines from the buildings to the public line. All work shall conform to the requirements of the City.
- The contractor will be responsible for securing all permits, bonds and insurance required by the contract documents, City, and all other governing agencies (including local, county, state and federal authorities) having jurisdiction over the work proposed by these construction documents. The cost for all permits bonds and insurance shall be the contractors responsibility and shall be included in the bid for the work.
- By the use of these construction documents the contractor hereby agrees that he/she shall be solely responsible for the safety of the construction workers and the public. The contractor agrees to hold the engineer and owner harmless for any and all injuries, claims, losses or damages related to the project.
- The Contractor shall be responsible for furnishing all materials, tools and equipment and installation of electrical power, telephone and gas service from a point of connection from the public utility lines to the building structures. This will include all conduits, service lines, meters, concrete pads and all other incidentals required for a complete and operational system as required by the owner and the public utilities. Refer to building plans for exact tie-in locations of all utilities. Contractor shall verify connection points prior to installation of utility line.
- Contractor shall notify the utility authorities inspectors 48 hours before connecting to any existing line.
- Water lines shall be as follows (unless otherwise shown on plans):
 - Pipe sizes less than 3-inches that are installed below grade and outside building shall comply with the following:
 - Seamless Copper Tubing: Type "K" soft copper, ASTM B88.
 - Fittings: Wrought copper (95.5 Tin Antimony solder joint), ASME B 16.22.
 - Pipe sizes 3-inches Through 48-inches that are installed below grade and outside building shall comply with one of the following:
 - Gray Cast Iron Water Pipe: ANSI A21.8, thickness class 52.
 - Fittings: Either mechanical joint or push-on joint, AWWA C110 or AWWA C111.
 - Elastomeric gaskets and lubricant: ASTM F477.
 - Cement Mortar Lining, AWWA C104
 - Ductile Iron Water Pipe: AWWA C151, thickness class 50.
 - Fittings: Either mechanical joint or push-on joint, AWWA C110 or AWWA C111.
 - Elastomeric gaskets and lubricant: ASTM F477.
 - Cement Mortar Lining, AWWA C104
 - Polyvinyl Chloride (PVC) Water Pipe: Pipe, AWWA C900, rated DR 18 (Class 150), continually marked as required.
 - Elastomeric gaskets and lubricant: ASTM F477 for smaller pipes.
 - Pipe joints: Integrally molded bell ends, ASTM D3139.
 - Trace wire: Magnetic detectable conductor, (#12 Copper) brightly colored plastic covering imprinted with "Water Service" in large letters
- Minimum trench width shall be 2 feet.
- Contractor shall maintain a minimum of 42" cover on all waterlines. All water line joints are to be mechanical joints with thrust blocking as called out in specifications and construction plans. Water mains and service lines shall be constructed in accordance to waterone's specifications for commercial services.
- All waterlines shall be kept min. ten (10') apart (parallel) from sanitary sewer lines or manholes. Or when crossing, on 24" vertical clearance (outside edge of pipe to outside edge of pipe) of the water line above the sewer line is required.
- Sanitary conflicts will be resolved prior to permit issuance.
- In the event of a vertical conflict between waterlines, sanitary lines, storm lines and gas lines (existing and proposed), the sanitary line shall be ductile iron pipe with mechanical joints at least 10 feet on both sides of crossing (or encased in concrete this same distance), the waterline shall have mechanical joints with appropriate thrust blocking as required to provide a minimum of 24" clearance. Meeting requirements of ANSI A21.10 or ANSI 21.11 (AWWA C-151) (CLASS 50).
- All underground storm, sanitary, water and other utility lines shall be installed, inspected and approved before backfilling. Failure to have inspection approval prior to backfill will constitute rejection of work.
- All necessary inspections and/or certifications required by codes and/or utility service companies shall be performed prior to announced building possession and the final connection of service. Contractor shall coordinate with all utility companies for installation requirements and specifications.
- Refer to building plans for site lighting electrical plan, irrigation, parking lot security system and associated conduit requirements. Coordinate with Owner that all required conduits are in place & tested prior to paving.
- When a building utility connection from site utilities leading up to the building cannot be made immediately, temporarily mark all such site utility terminations.
- Refer to the building plans for site lighting electrical requirements, including conduits, pole bases, pull boxes, etc.

UTILITY COMPANIES:

MISSOURI GAS ENERGY	(816) 969-2218
LUCAS WALLS (LUCAS.WALLS@UG.COM)	
3025 SOUTHEAST CLOVER DRIVE	
LEE'S SUMMIT, MO 64082	
EVERGY	(816) 347-4339
PHILLIP INGRAM (PHILLIP.INGRAM@CPL.COM)	
RON DEJARNETTE (RON.DEJARNETTE@CPL.COM)	(816) 347-4316
1300 HAMLEN ROAD	
LEE'S SUMMIT, MO 64081	
STORM SEWER (PUBLIC WORKS DEPARTMENT)	(816) 969-1800
220 SE GREEN STREET	
LEE'S SUMMIT, MO 64063	
SANITARY SEWER & WATER (WATER UTILITIES DEPT.)	(816)-969-1900
1200 SE HAMLEN ROAD,	
LEE'S SUMMIT, MO 64081	
AT&T (913) 383-4929	
MR. CLAYTON ANSPAUGH (CA4089@ATT.COM)	(913) 383-4849-FAX
9444 NALL AVENUE	
OVERLAND PARK, KANSAS 66207	

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As Noted on Plan Review
Development Services Department
Lee's Summit, Missouri
09/18/2024



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1370 N. Winchester
Olathe, Kansas 66061
(913) 993-1155
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www.philipsengineering.com

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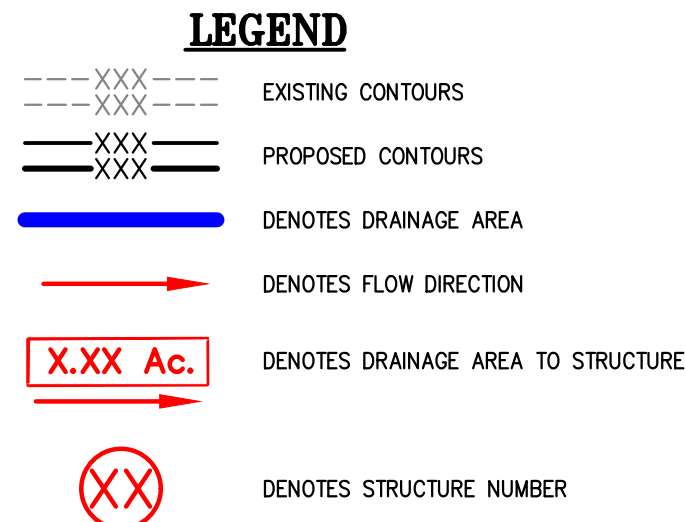


UTILITY PLAN
ANDY'S FROZEN CUSTARD
630 NW CHIPMAN ROAD
LEE'S SUMMIT, MISSOURI

PROJECT NO.	240159	No.	Date	Revisions:	By	App.
DATE: 04-12-2024	DRAWN: AEB	1.	05-10-2024	REVISED PER CITY COMMENTS	AEB	DAF
CHECKED: DAF	APPROVED: JDC	2.	05-30-2024	REVISED PER CITY COMMENTS	AEB	DAF
CERTIFICATE OF AUTHORIZATION						
LAND SURVEYING - LS-82						
ENGINEERING - E-361						
CERTIFICATE OF AUTHORIZATION						
LAND SURVEYING-200701028						
ENGINEERING-200700326						

SHEET

C3

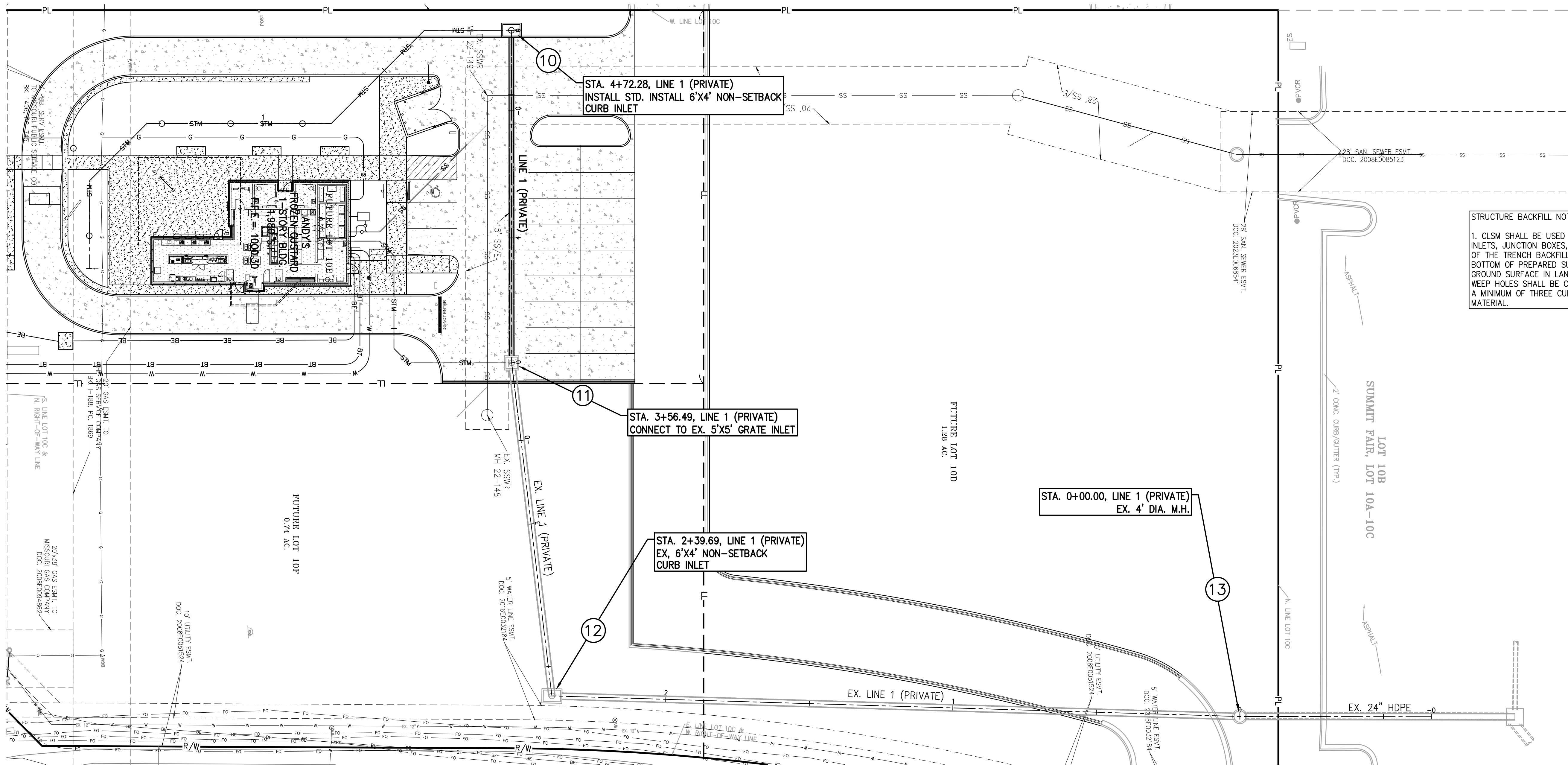


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As Noted on Plan Review

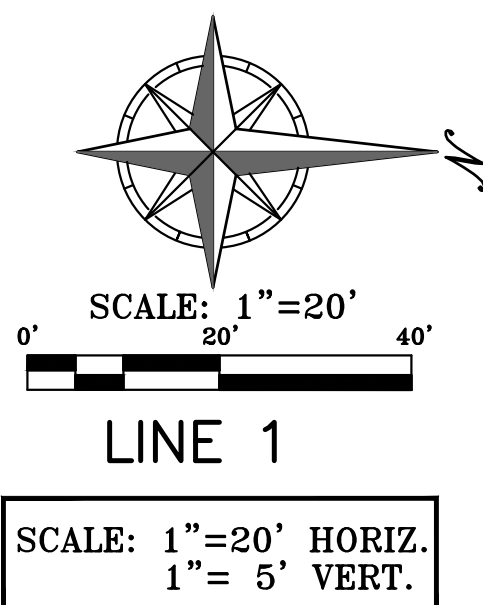
Development Services Department
Lee's Summit, Missouri

06/18/2024

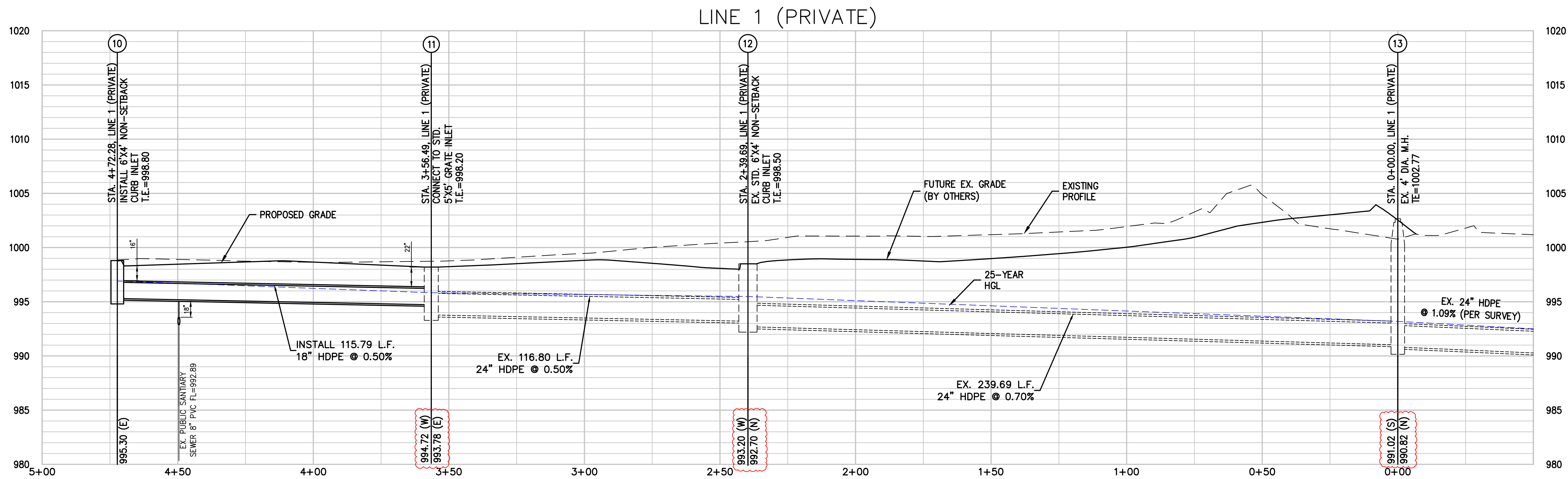
PROJECT NO.	Date	No.	Revisions
DATE: 04-19-2024 [DRAWN AEB]	05-10-2024	1	REVISED PER CITY COMMENTS
CHECKED: DAF [APPROVED: JOC]	05-30-2024	AEB	REVISED PER CITY COMMENTS
CERTIFICATE OF AUTHORIZATION LAND SURVEYING — LS-62 ENGINEERING — E-301 RESUME DATE OF AUTHORIZATION EXPIRATION DATE: 07/01/2028 EXPIRING: 07/01/2028			



STRUCTURE BACKFILL NOTES:
1. CLSM SHALL BE USED TO BACKFILL AROUND STRUCTURES, SUCH AS MANHOLES, INLETS, JUNCTION BOXES, VAULTS, ETC. CLSM SHALL BE PLACED TO THE FULL DEPTH OF THE TRENCH BACKFILL ZONE, BUT SHALL BE AT LEAST 6 INCHES BELOW THE BOTTOM OF PREPARED SUBGRADE UNDER PAVEMENTS OR 12 INCHES BELOW THE GROUND SURFACE IN LANDSCAPED AREAS. THE EXTERNAL OPENING SURFACES OF WEEP HOLES SHALL BE COVERED WITH HARDWARE CLOTH AND SURROUNDED WITH A MINIMUM OF THREE CUBIC FEET OF CONSOLIDATED GRANULAR BEDDING MATERIAL.



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06/18/2024



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STORM SEWER PLAN & PROFILE

ANDY'S FROZEN CUSTARD
630 NW CHIPMAN ROAD
LEE'S SUMMIT, MISSOURI

PROJECT NO.	240159	By	App.
DATE: 04-12-2024	DRAWN: AEB	1. 05-10-2024	AEB DAF
CHECKED: DAF	APPROVED: JDC	2. 05-30-2024	AEB DAF
CORPORATE SEAL OF AUTHORIZATION			
CERTIFICATE OF AUTHORIZATION			
LAND SURVEYING - LS-82			
ENGINEERING - E-361			
CERTIFICATE OF AUTHORIZATION			
LAND SURVEYING-20070128			
LAND SURVEYING-20070128			

SHEET

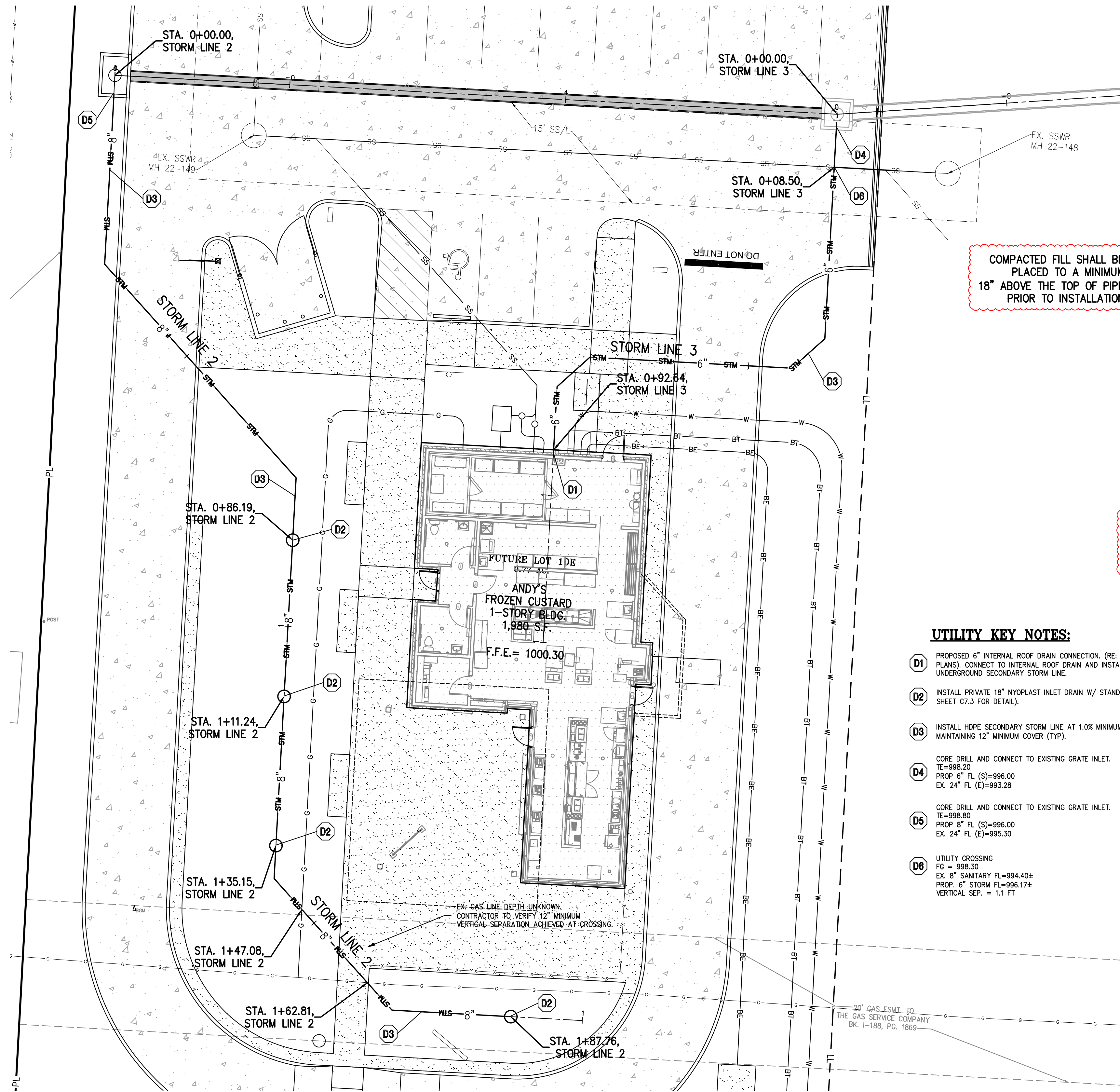
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\\PHILIPS-SERVER\Projects\1740159\Draw\Permit Plans\SECONDARY STORM.dwg Layout1 May 31, 2024 - 2:33pm Daniel Finn



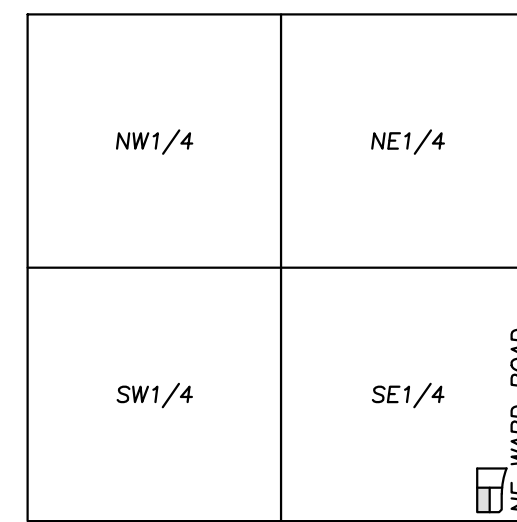
Know what's below.
Call before you dig.

UTILITY NOTES:
VISUAL INDICATIONS OF UTILITIES ARE AS SHOWN.
UNDERGROUND LOCATIONS SHOWN, AS FURNISHED BY THEIR
LESSORS, ARE APPROXIMATE AND SHOULD BE VERIFIED IN
THE FIELD AT THE TIME OF CONSTRUCTION. FOR ACTUAL
FIELD LOCATIONS OF UNDERGROUND UTILITIES CALL 811.



UTILITY KEY NOTES:

- (D1) PROPOSED 6" INTERNAL ROOF DRAIN CONNECTION. (RE: MEP PLANS). CONNECT TO INTERNAL ROOF DRAIN AND INSTALL UNDERGROUND SECONDARY STORM LINE.
- (D2) INSTALL PRIVATE 18" NYLOPLAST INLET DRAIN W/ STANDARD GRATE (SEE SHEET C7.3 FOR DETAIL).
- (D3) INSTALL HDPE SECONDARY STORM LINE AT 1.0% MINIMUM SLOPE MAINTAINING 12" MINIMUM COVER (TYP).
- (D4) CORE DRILL AND CONNECT TO EXISTING GRATE INLET.
TE=998.20
PROP 6" FL (S)=996.00
EX 24" FL (E)=993.28
- (D5) CORE DRILL AND CONNECT TO EXISTING GRATE INLET.
TE=998.80
PROP 8" FL (S)=996.00
EX 24" FL (E)=995.30
- (D6) UTILITY CROSSING
FG = 998.30
EX 8" SANITARY FL=994.40±
PROP 6" STORM FL=996.17±
VERTICAL SEP. = 1.1 FT



VICINITY MAP
SEC. 36-48-32

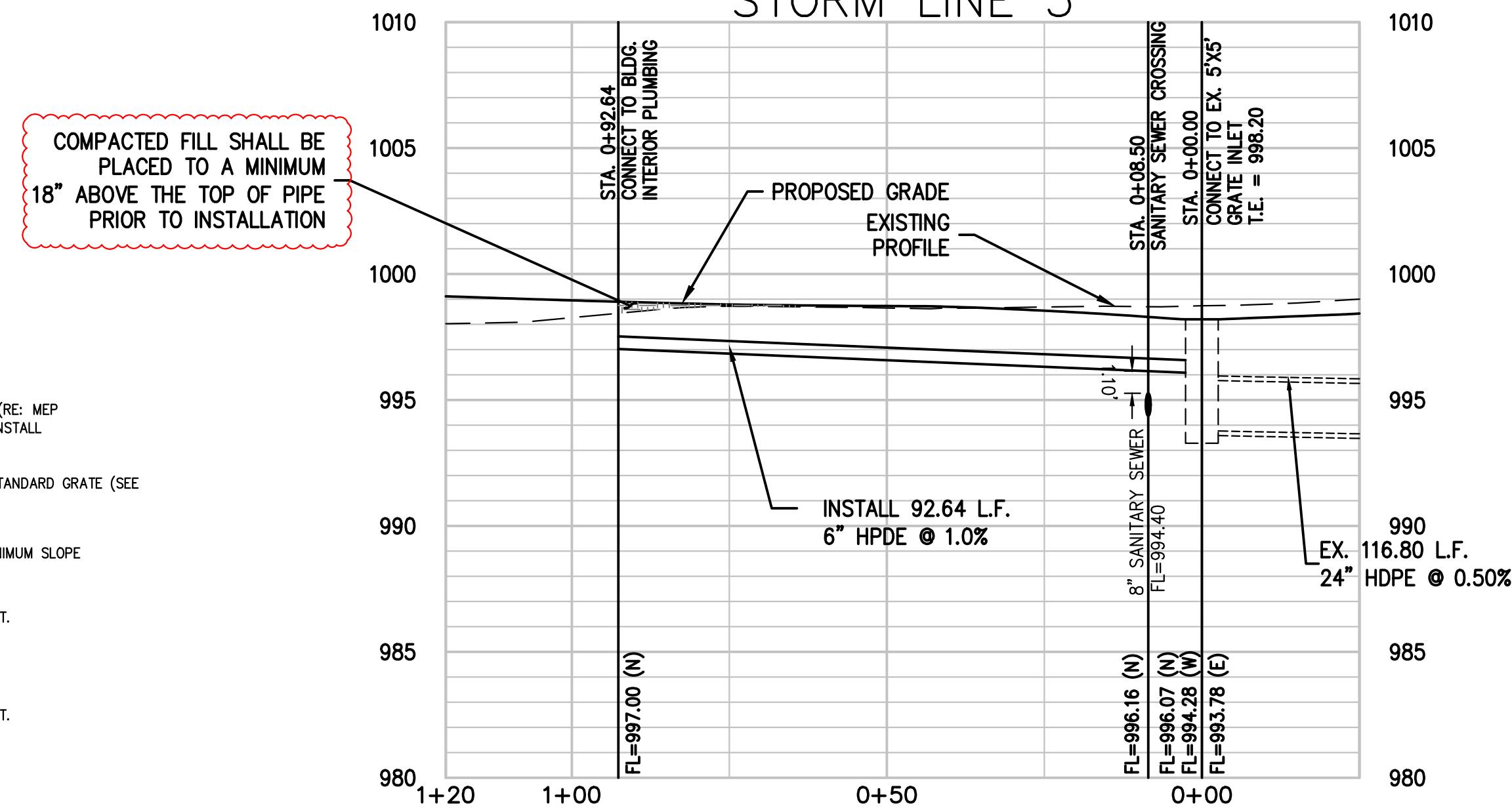
LEGEND

- PL — PROPERTY LINE
— LL — LOT LINE
— R/W — RIGHT-OF-WAY
— CATV — EXISTING CABLE TELEVISION LINE
— FO — EXISTING FIBER OPTIC LINE
— G — EXISTING GAS LINE
— BE — EXISTING BURIED ELECTRIC LINE
— OHP — EXISTING OVERHEAD POWER LINE
— OHT — EXISTING OVERHEAD TELEPHONE LINE
— SS — EXISTING SANITARY SEWER LINE
— S — EXISTING STORM SEWER LINE (& SIZE)
— BT — EXISTING BURIED TELEPHONE LINE
— W-6" — EXISTING WATER LINE (& SIZE)
— SS — PROPOSED SANITARY SEWER LINE
— 24"HDPE — PROPOSED STORM SEWER LINE (& SIZE)

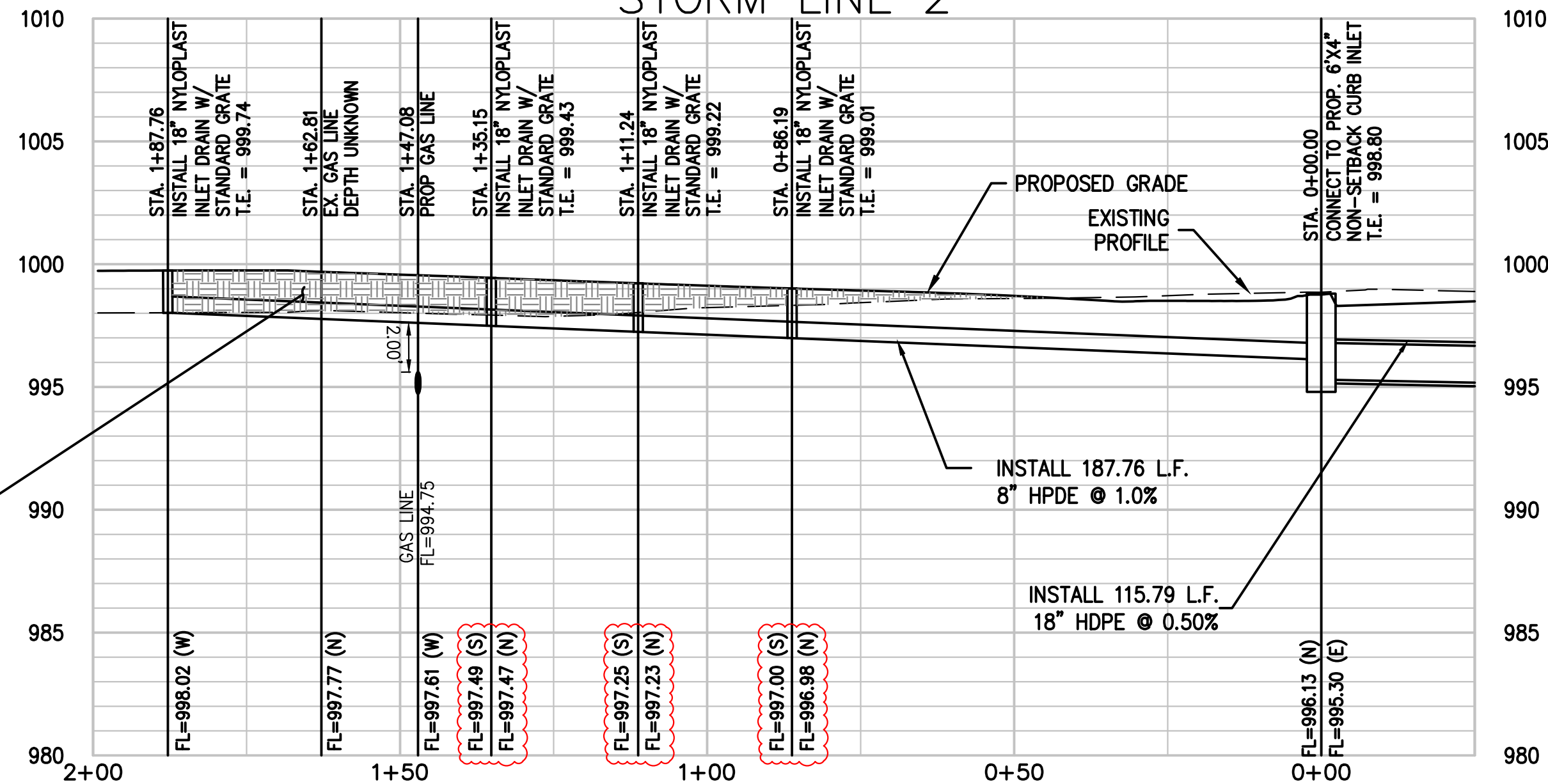


SCALE:
1"=2000'

STORM LINE 3



STORM LINE 2



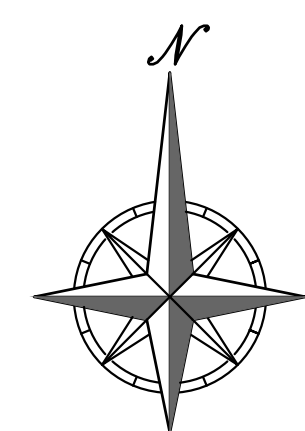
STRUCTURE BACKFILL NOTES:

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COMPACTED FILL PRIOR TO EXCAVATION NOTE:

1. CONTRACTOR SHALL FILL AND COMPACT 95% STANDARD DENSITY TO A POINT 18 INCHES MINIMUM ABOVE THE TOP OF THE PIPE PRIOR TO EXCAVATION FOR THE PIPE.

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Lee's Summit, Missouri
06/18/2024



SCALE: 1"=10'
0' 10' 20'

DESIGN CRITERIA: K ₂₅ = 1.1; K ₁₀₀ = 1.25; n = 0.013 (RCP); STORM FREQUENCY = 25 YEAR; A _I = AREA INLET; J.B = JUNCTION BOX; C.I. = CURB INLET; C.C. = CURB OUT; G.I. = GRATE INLET; HEIGHT OF STRUCTURE = RIM ELEV MINUS FLOWLINE OUT.																									
I. RUNOFF											III. PIPE DESIGN											REMARKS			
N U M B E R	S T R U C T U R E	INCREMENTAL			CUMULATIVE		SYSTEM TIME OF CONCENTRATION "T" _s AT STRUCTURE (MIN)	RAINFALL INTENSITY " <i>I</i> ₂ / <i>I</i> ₁₀₀ " (IN/HR)	ANTECEDENT PRECIPITATION FACTOR " <i>K</i> ₂₅ / <i>K</i> ₁₀₀ "	RUNOFF " <i>Q</i> ₂₅ / <i>Q</i> ₁₀₀ " (CFS)	STRUCTURE				PIPE										
		RUNOFF COEFFICIENT " <i>C</i> "	AREA " <i>A</i> " (ACRES)	<i>C</i> x <i>A</i>	AREA " <i>A</i> " (ACRES)	<i>C</i> x <i>A</i>					Upstream Structure Number	Downstream Structure Number	Upstream Structure Rim Elevation	Height of Structure (FT)	Diameter " <i>D</i> " (IN)	Length " <i>L</i> " (FT)	Upstream Invert Elevation	Downstream Invert Elevation	Slope " <i>S</i> " (FT/FT)	Travel Time in Pipe " <i>TT</i> " (min)	Velocity Full <i>V_f</i> (FPS)	Runoff <i>Q</i> ₂₅ (CFS)	Runoff <i>Q</i> ₁₀₀ (CFS)	Full Flow <i>Q_f</i> (CFS)	
2	20	0.76	0.03	0.02	0.03	0.02	5.00	8.53	1.10	0.2	20	21	999.74	1.72	8	52.61	998.02	997.49	0.0100	0.25	3.5	0.2	0.3	1.2	OKAY
	21	0.76	0.04	0.03	0.07	0.05	5.00	8.53	1.10	0.5	21	22	999.43	1.96	8	23.91	997.47	997.25	0.0100	0.11	3.5	0.5	0.6	1.2	OKAY
	22	0.76	0.03	0.02	0.09	0.07	5.00	8.53	1.10	0.7	22	23	999.22	1.99	8	25.05	997.23	997.00	0.0100	0.12	3.5	0.7	0.9	1.2	OKAY
	23	0.76	0.04	0.03	0.13	0.10	5.00	8.53	1.10	0.9	23	PROP CURB INLET	999.01	2.03	8	86.19	996.98	996.13	0.0100	0.41	3.5	0.9	1.3	1.2	OKAY
	30	0.76	0.05	0.03	0.05	0.03	5.00	8.53	1.10	0.3	30	EX GRATE INLET	N/A	N/A	6	92.64	997.00	996.07	0.0100	0.53	2.9	0.3	0.4	0.6	OKAY



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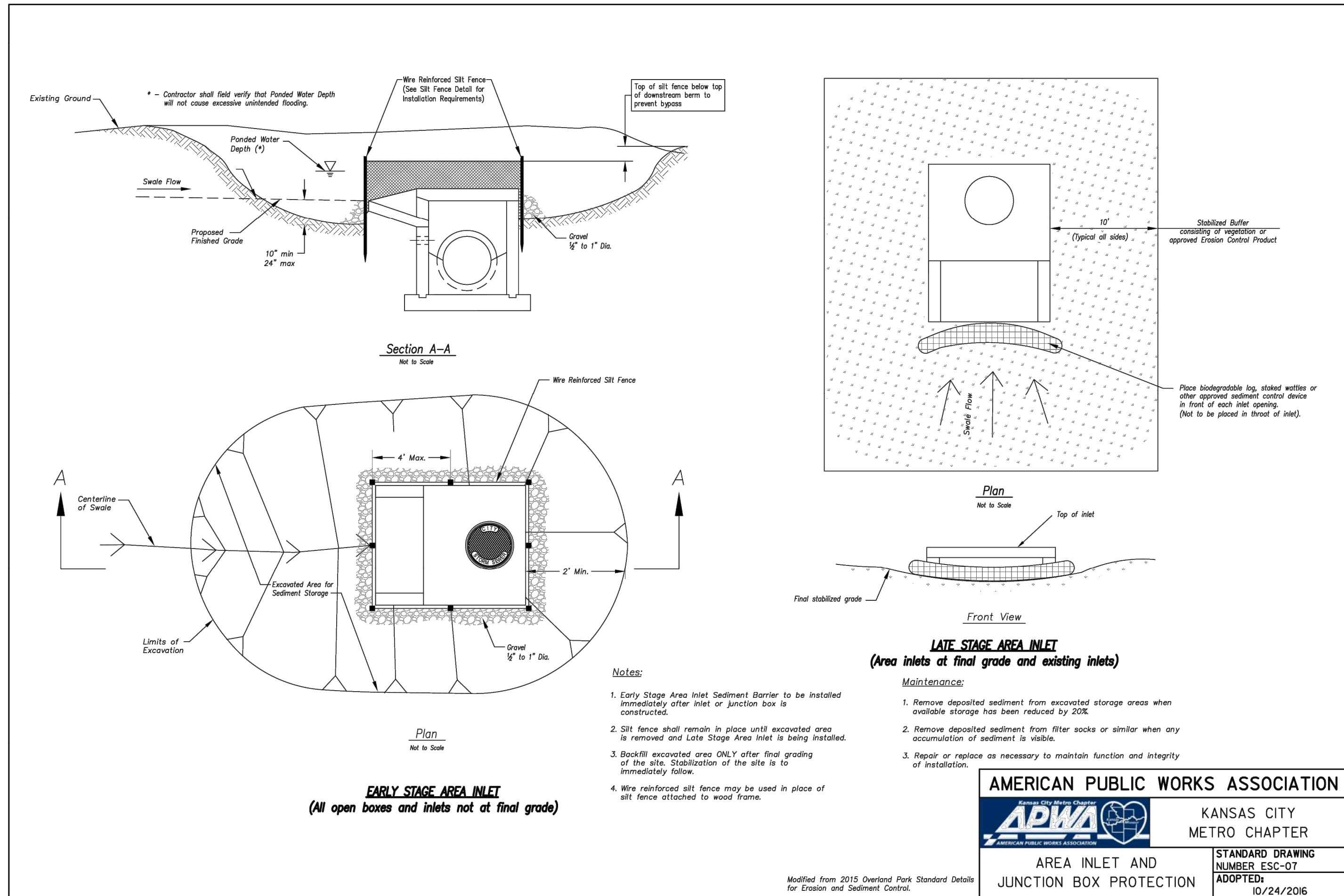
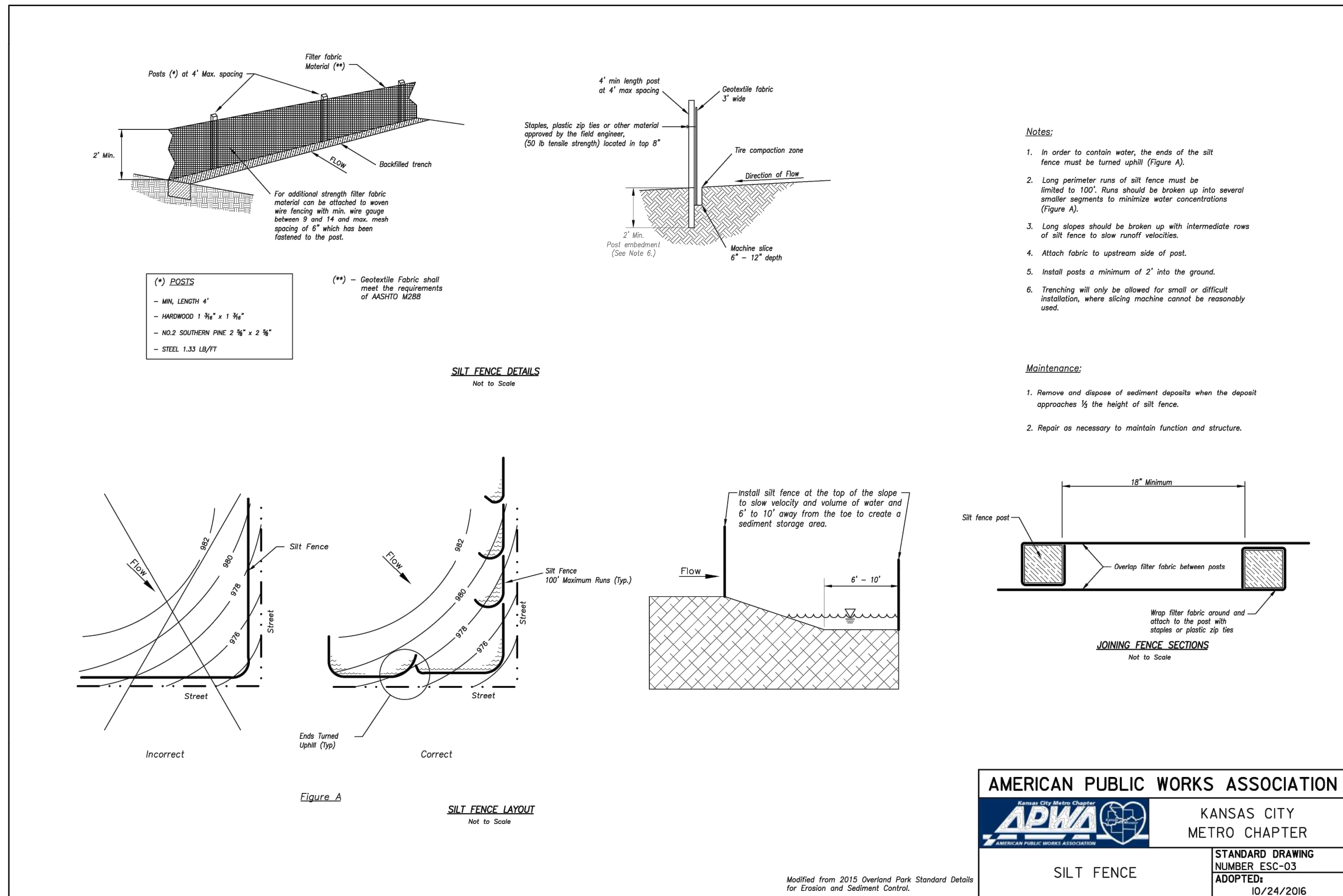
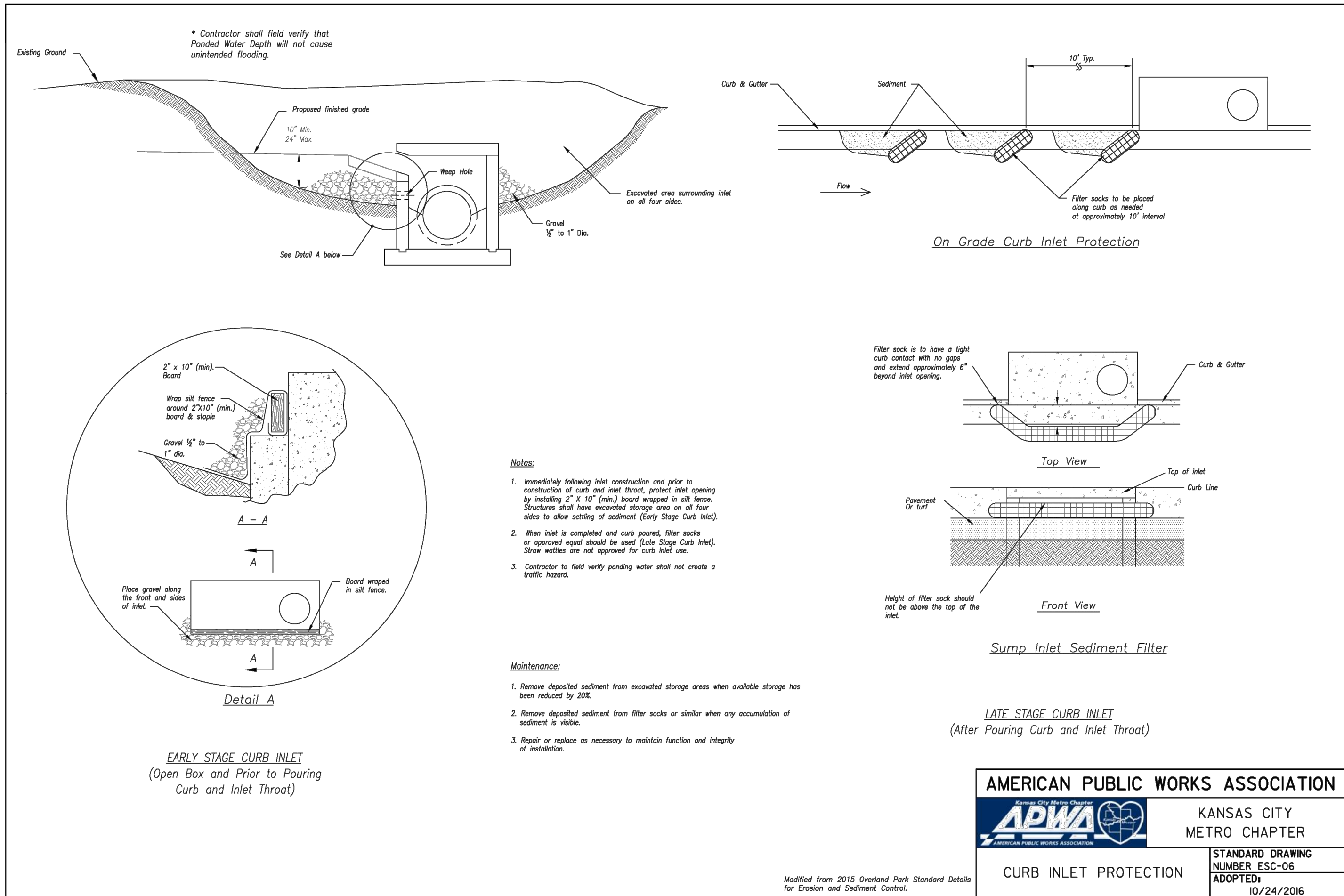
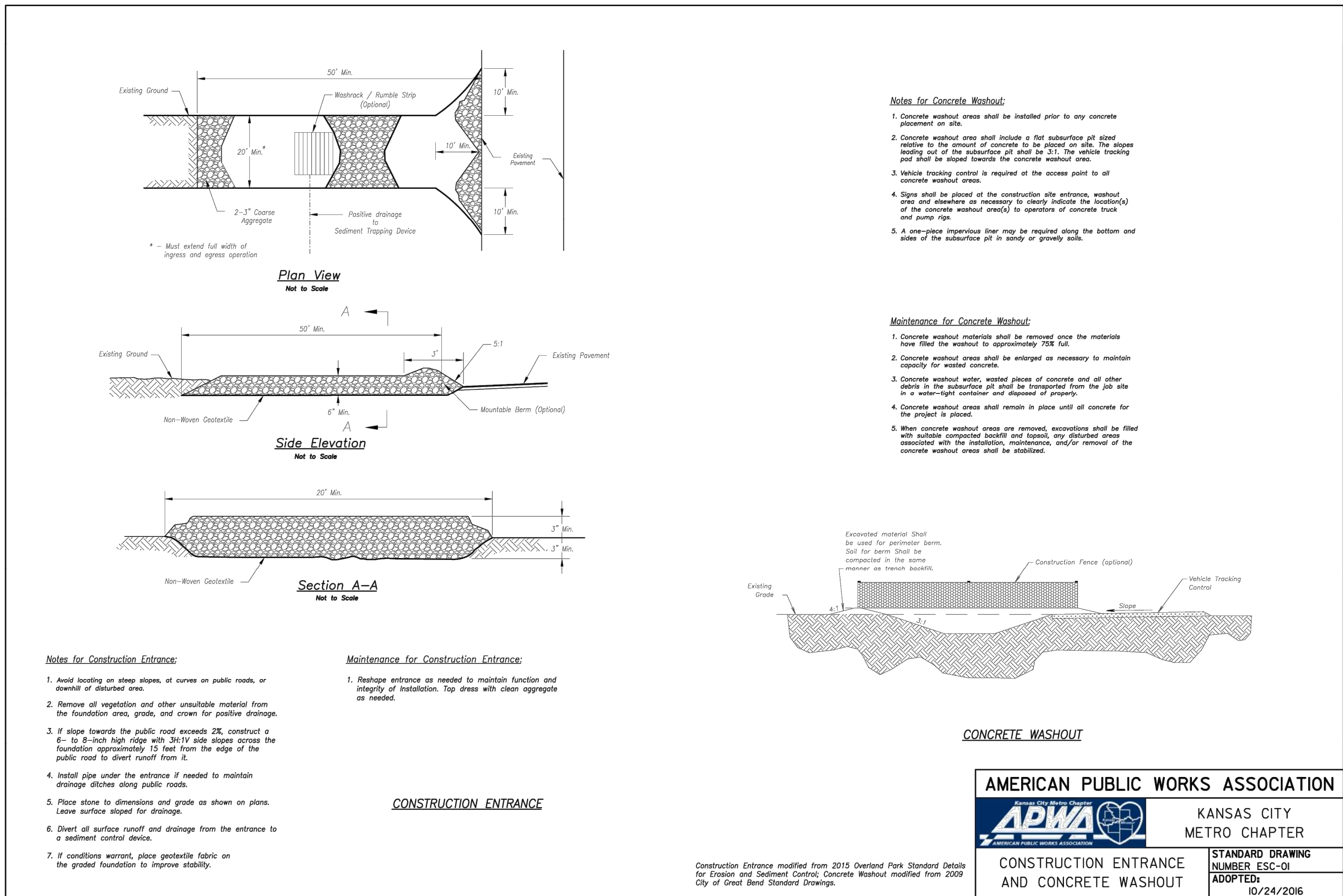
SECONDARY STORM PLAN
ANDY'S FROZEN CUSTARD
630 NW CHIPMAN ROAD
LEE'S SUMMIT, MISSOURI

PROJECT NO.	240159	DATE	04-12-2024	DATE	05-10-2024	DATE	05-30-2024
CHECKED BY	DAF <th>DATE</th> <td>04-12-2024<th>CHECKED BY</th><td>DAF<th>DATE</th><td>05-30-2024</td></td></td>	DATE	04-12-2024 <th>CHECKED BY</th> <td>DAF<th>DATE</th><td>05-30-2024</td></td>	CHECKED BY	DAF <th>DATE</th> <td>05-30-2024</td>	DATE	05-30-2024
DESIGNED BY	DAF <th>DATE</th> <td>04-12-2024<th>DESIGNED BY</th><td>DAF<th>DATE</th><td>05-30-2024</td></td></td>	DATE	04-12-2024 <th>DESIGNED BY</th> <td>DAF<th>DATE</th><td>05-30-2024</td></td>	DESIGNED BY	DAF <th>DATE</th> <td>05-30-2024</td>	DATE	05-30-2024
APPROVED BY	DAF <th>DATE</th> <td>04-12-2024<th>APPROVED BY</th><td>DAF<th>DATE</th><td>05-30-2024</td></td></td>	DATE	04-12-2024 <th>APPROVED BY</th> <td>DAF<th>DATE</th><td>05-30-2024</td></td>	APPROVED BY	DAF <th>DATE</th> <td>05-30-2024</td>	DATE	05-30-2024
REVISIONS							
NO.	DATE	BY	REVISIONS	NO.	DATE	BY	REVISIONS
1	05-10-2024	AEB	REVISED PER CITY COMMENTS	2	05-30-2024	AEB	REVISED PER CITY COMMENTS
2	05-30-2024	AEB	REVISED PER CITY COMMENTS				
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As Based on Plan Review
Development Services Department
Lee's Summit, Missouri
06/12/2024



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Olathe, Kansas 66061
(913) 393-1155
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EROSION CONTROL DETAILS
ANDY'S FROZEN CUSTARD
630 NW CHIPMAN ROAD
LEE'S SUMMIT, MISSOURI

PROJECT NO.	By	App.	Revisions:	No.	Date
240159	AEB	DAF	1. 05-10-2024	1.	05-10-2024
	AEB	DAF	2. 05-30-2024	2.	05-30-2024
			CHECKED: DAF APPROVED: JDC		
			CERTIFICATE OF AUTHORIZATION		
			LAND SURVEYING - LS-82		
			ENGINEERING - E-361		
			CERTIFICATE OF AUTHORIZATION		
			LAND SURVEYING-20070128		
			ENGINEERING-20070228		

SHEET

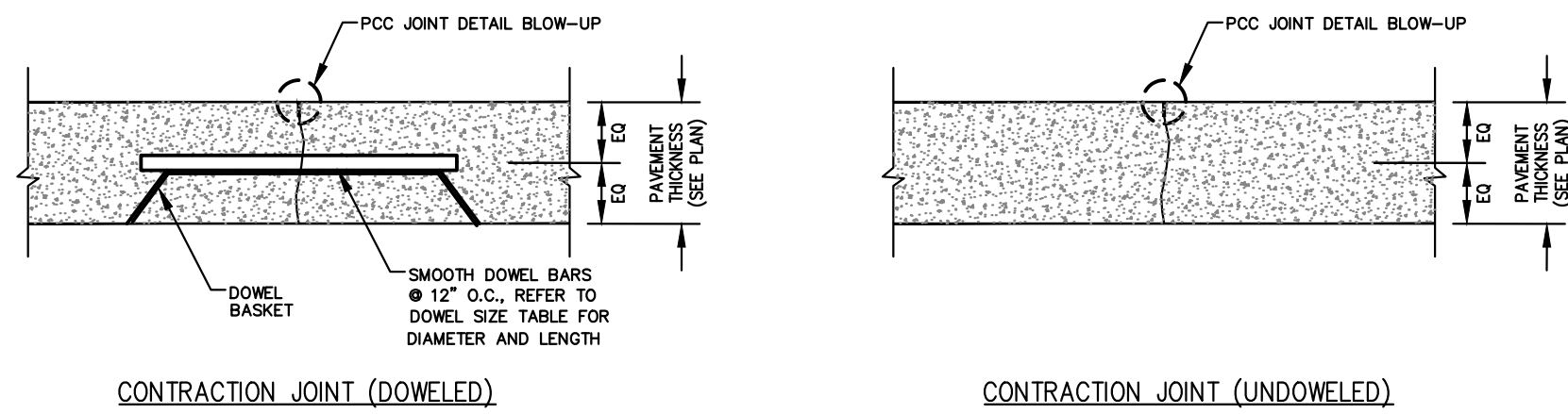
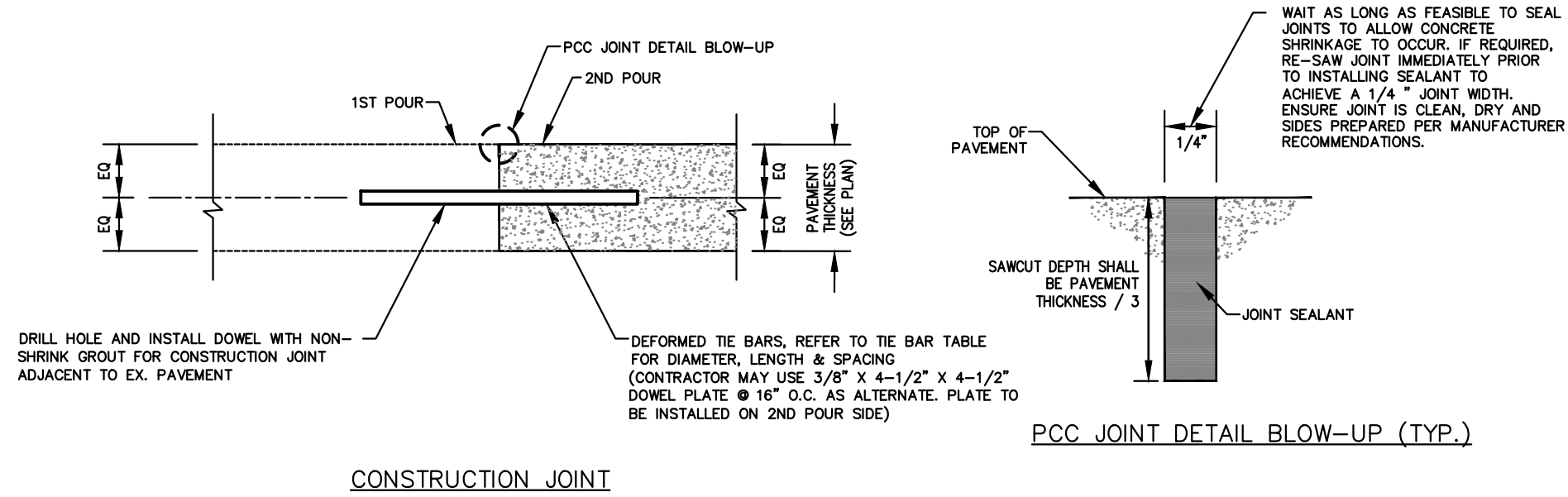
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Dowel size*			
Slab depth, in. (mm)	Dowel diameter, in. (mm)	Dowel embedment, in. (mm)	Total dowel length, in. (mm)
5 (125)	5/8 (16)	5 (125)	12 (300)
6 (150)	3/4 (19)	6 (150)	14 (360)
7 (180)	7/8 (22)	6 (150)	14 (360)
8 (200)	1 (25)	6 (150)	14 (360)
9 (230)	1-1/8 (29)	7 (180)	16 (400)

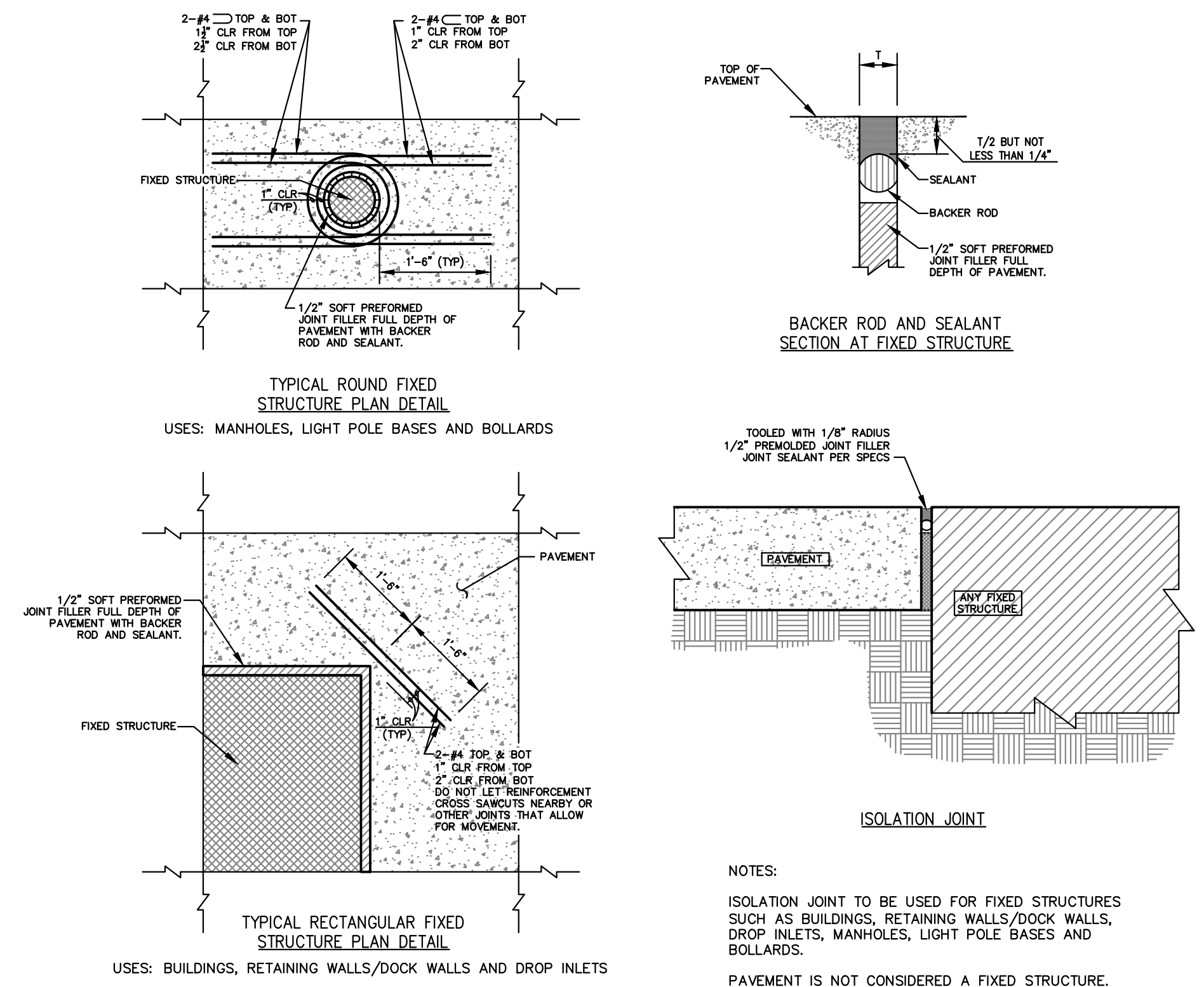
*All dowels spaced at 12 in. (300 mm) centers.
†On each side of joint.
‡Allowance made for joint openings and for minor errors in positioning dowels.

Slab depth, in. (mm)		Tiebar size, in. (mm)		Tiebar spacing			
				Distance to nearest free edge or to nearest joint where movement can occur			
				10 ft, in. (mm)	12 ft, in. (mm)	14 ft, in. (mm)	24 ft, in. (mm)
5 (125)	1/2 x 24 (13 x 610)	30 (760)	30 (760)	30 (760)	30 (760)	28 (710)	
5-1/2 (140)	1/2 x 24 (13 x 610)	30 (760)	30 (760)	30 (760)	30 (760)	25 (630)	
6 (150)	1/2 x 24 (13 x 610)	30 (760)	30 (760)	30 (760)	30 (760)	23 (580)	
6-1/2 (165)	1/2 x 24 (13 x 610)	30 (760)	30 (760)	30 (760)	30 (760)	21 (530)	
7 (180)	1/2 x 24 (13 x 610)	30 (760)	30 (760)	30 (760)	30 (760)	20 (510)	
7-1/2 (190)	1/2 x 24 (13 x 610)	30 (760)	30 (760)	30 (760)	30 (760)	18 (460)	
8 (200)	1/2 x 24 (13 x 610)	30 (760)	30 (760)	30 (760)	28 (710)	17 (430)	
8-1/2 (215)	1/2 x 24 (13 x 610)	30 (760)	30 (760)	30 (760)	36 (910)	16 (410)	
9 (230)	1/2 x 30 (13 x 760)	36 (910)	36 (910)	—	—	24 (610)	



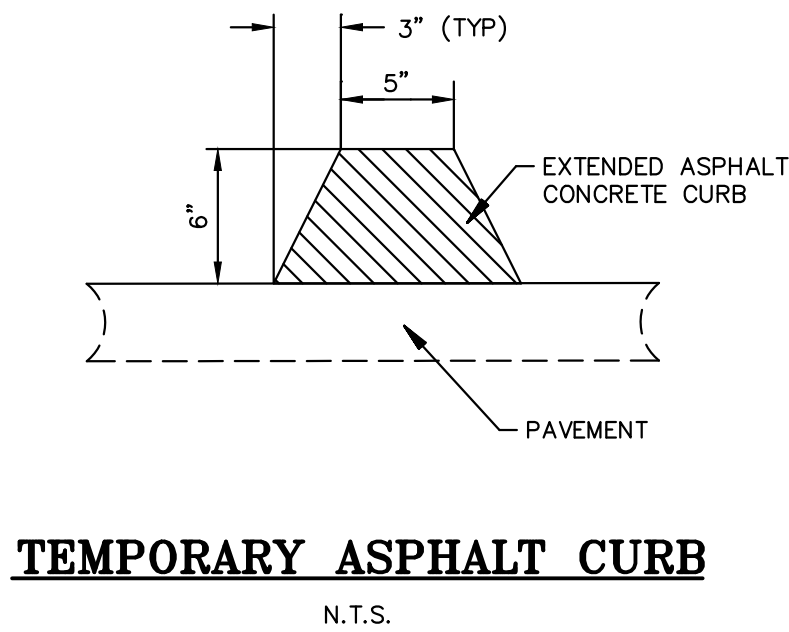
CONCRETE JOINT DETAILS

SCALE: N.T.S.



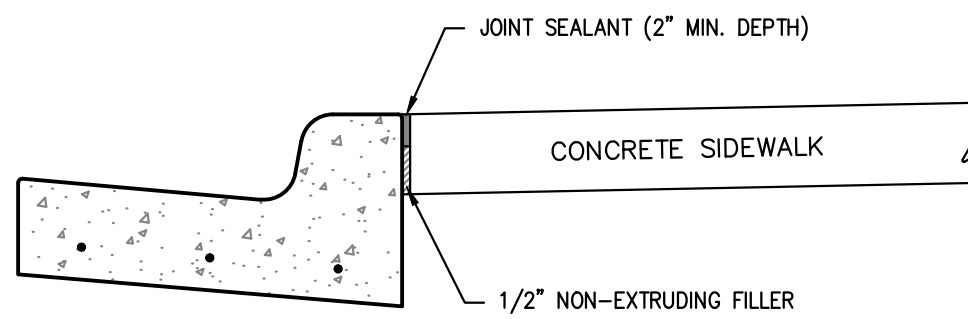
ISOLATION JOINT DETAILS

SCALE: N.T.S.



TEMPORARY ASPHALT CURB

N.T.S.

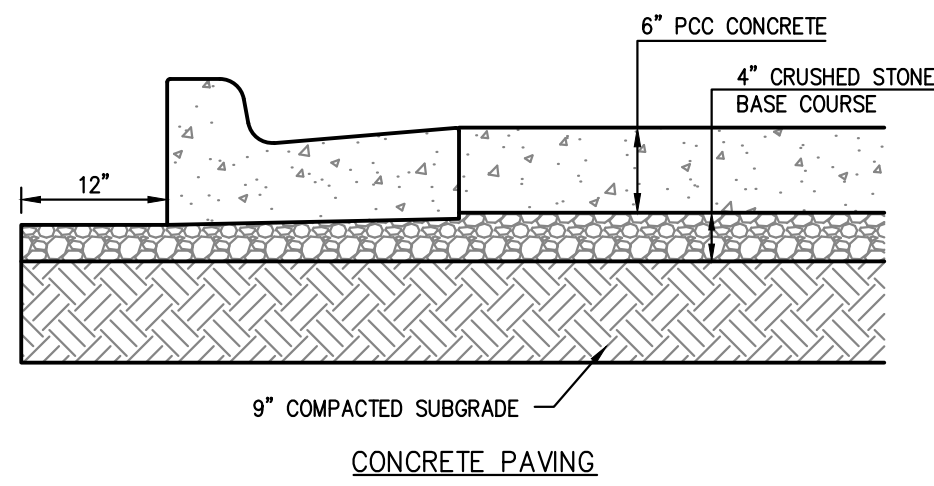


SIDEWALK AT CURB DETAIL

SCALE: N.T.S.

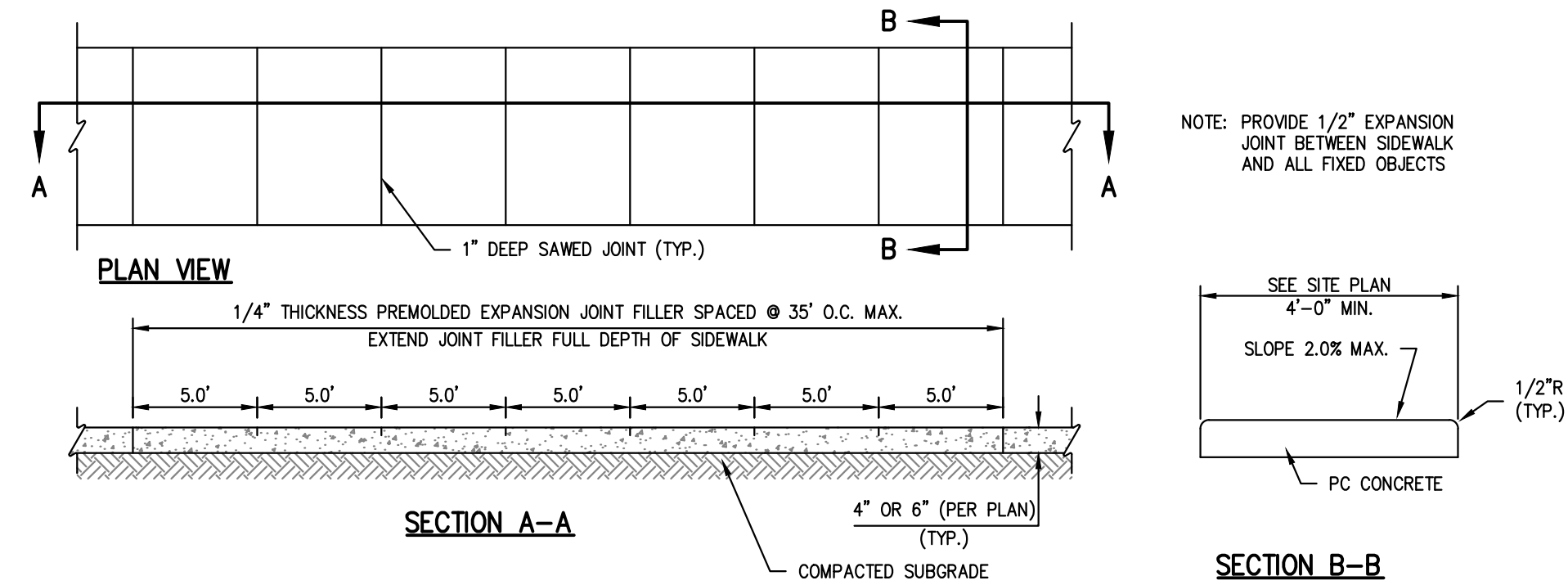
GENERAL PAVING NOTES:

- PRIOR TO PLACEMENT OF GRANULAR BASE OR ASPHALT, PROOF ROLL AND RE-COMPACT THE EXPOSED SURFACES UP TO A MINIMUM LATERAL DISTANCE OF TWO (2) FEET OUTSIDE THE PAVEMENT. ANY LOCALIZED SOFT, WET, OR LOOSE AREAS IDENTIFIED DURING THE PROOF ROLLING SHOULD BE REPAIRED PRIOR TO PAVING. FILL MATERIAL SHOULD BE PLACED IN LOOSE LIFTS UP TO A MAXIMUM OF EIGHT (8) INCHES IN THICKNESS AND COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698 AT MOISTURE CONTENTS WITHIN 0% AND +4% OF THE OPTIMUM FOR SOILS WITH A LIQUID LIMIT OF GREATER THAN 40, AND - +1/2 - 3% OF THE OPTIMUM FOR SOILS WITH A LIQUID LIMIT OF LESS THAN 40. MAXIMUM DRY DENSITY AND OPTIMUM MOISTURE CONTENT SHOULD BE DETERMINED BY THE STANDARD PROCTOR TEST (ASTM D 698).
- PROOFROLL WITH A 25 TON RUBBER TIRE VEHICLE AND REPAIR SUBGRADE DEFICIENCIES. IF ANY SIGNIFICANT EVENT, SUCH AS PRECIPITATION, OCCURS AFTER PROOFROLLING, THE SUBGRADE SHOULD BE REVIEWED BY QUALIFIED PERSONNEL IMMEDIATELY PRIOR TO PLACING THE PAVEMENT.
- CRUSHED STONE BASE COURSE USED BENEATH CONCRETE PAVING SHALL BE COMPACTED AB-3 OR EQUIVALENT.
- ALL SITE CONCRETE (CURBS, PAVEMENTS, SIDEWALKS, ETC.) SHALL MEET KANSAS CITY MATERIALS METRO BOARD (KOMMB) MIX DESIGN SPECIFICATIONS FOR 4,000 P.S.I. AIR ENTRAINED CONCRETE.
- IN NEW PAVEMENT AREAS, CONTRACTOR SHALL OVER EXCAVATE AS REQUIRED TO ESTABLISH NEW COMPACTED SUBGRADE ELEVATIONS.
- CONTRACTOR IS RESPONSIBLE FOR ALL PAVEMENT AND SUBGRADE MATERIALS TESTING
- FIBER REINFORCEMENT SHALL BE USED IN ALL CONCRETE CURB AND CONCRETE FLATWORK (SIDEWALKS, PAVEMENTS, ETC.). ALL FIBERS SHALL BE ALKALI-RESISTANT, NATURAL CELLULOSE FIBERS AS MANUFACTURED BY SOLOMON ULTRAFIBER 500, OR POLY PROPYLENE FIBRILLATED FIBERS AS MANUFACTURED BY SIKAFIBERMESH-300, OR AN APPROVED EQUAL IN ADVANCE BY THE ENGINEER.



PAVING SECTIONS

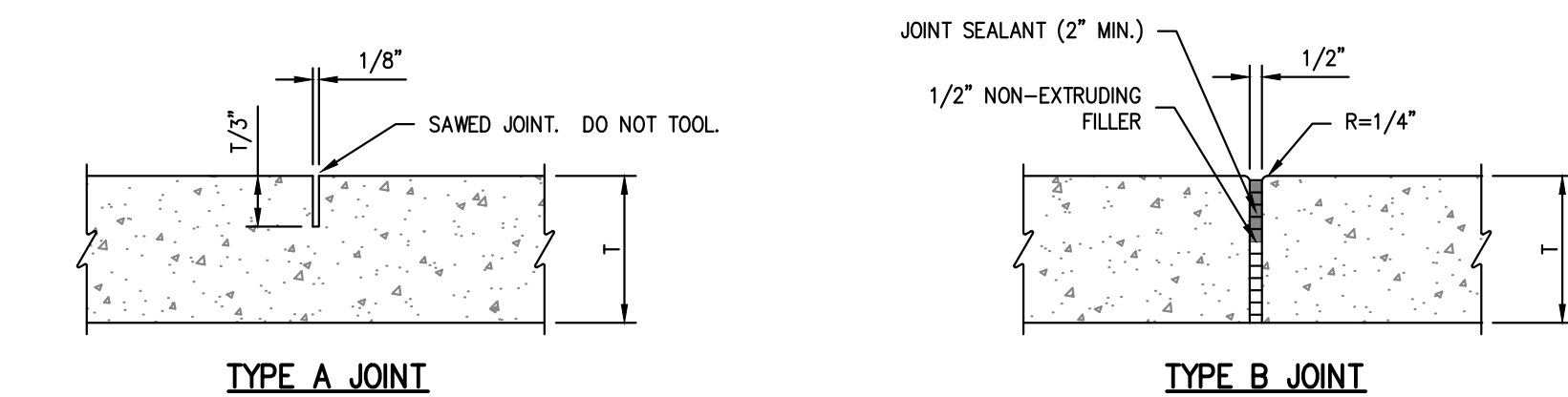
SCALE: N.T.S.



- NOTE:
- USE KANSAS CITY MATERIALS METRO BOARD (KOMMB) MIX DESIGN SPECIFICATIONS FOR 4,000 P.S.I. AIR ENTRAINED CONCRETE FOR ALL PRIVATE SIDEWALKS.

PRIVATE CONCRETE SIDEWALKS (NON REINFORCED)

SCALE: N.T.S.



NOTE: TYPE A JOINTS SHALL NOT EXCEED 20 TIMES THE PAVEMENT THICKNESS (T).

CONCRETE SIDEWALK JOINT DETAILS

SCALE: N.T.S.

RELEASED FOR CONSTRUCTION
As Noted on Plan Section
Development Services Department
Lee's Summit, Missouri
06/19/2024



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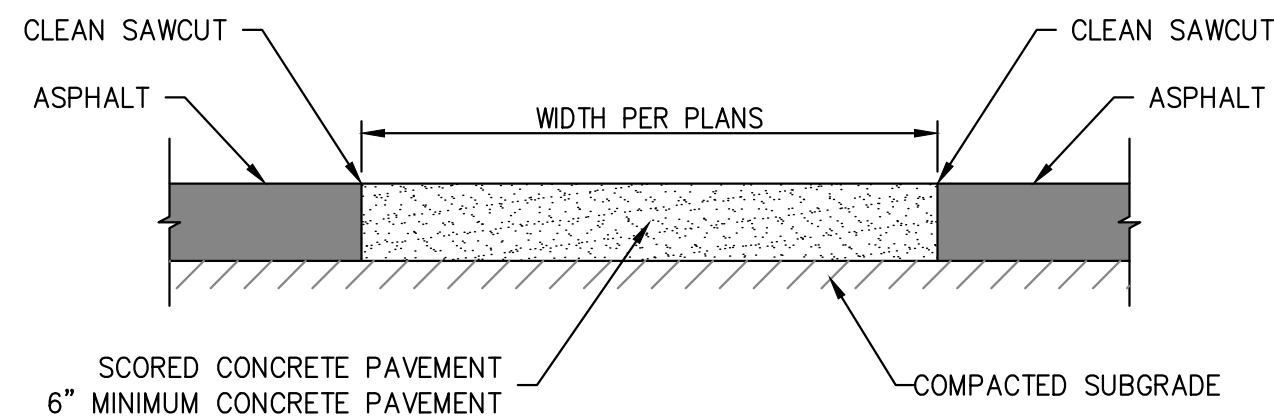
STANDARD DETAILS
ANDY'S FROZEN CUSTARD
630 NW CHIPMAN ROAD
LEE'S SUMMIT, MISSOURI

PROJECT NO.	240159	No.	1.	Date	05-10-2024	By	App.
DATE	04-12-2024	DRAWN	AEB	CHECKED	DAF	REVISIONS	
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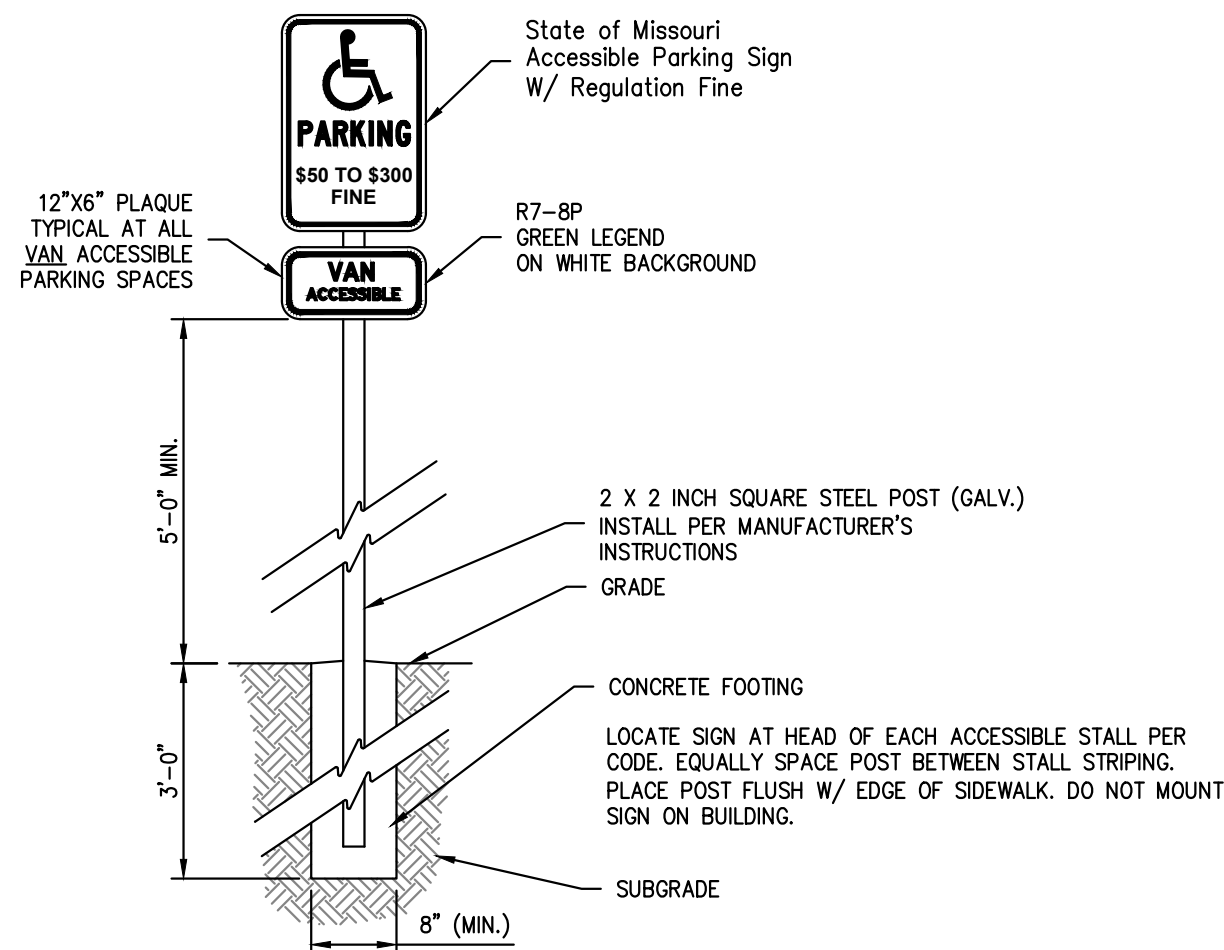
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C7

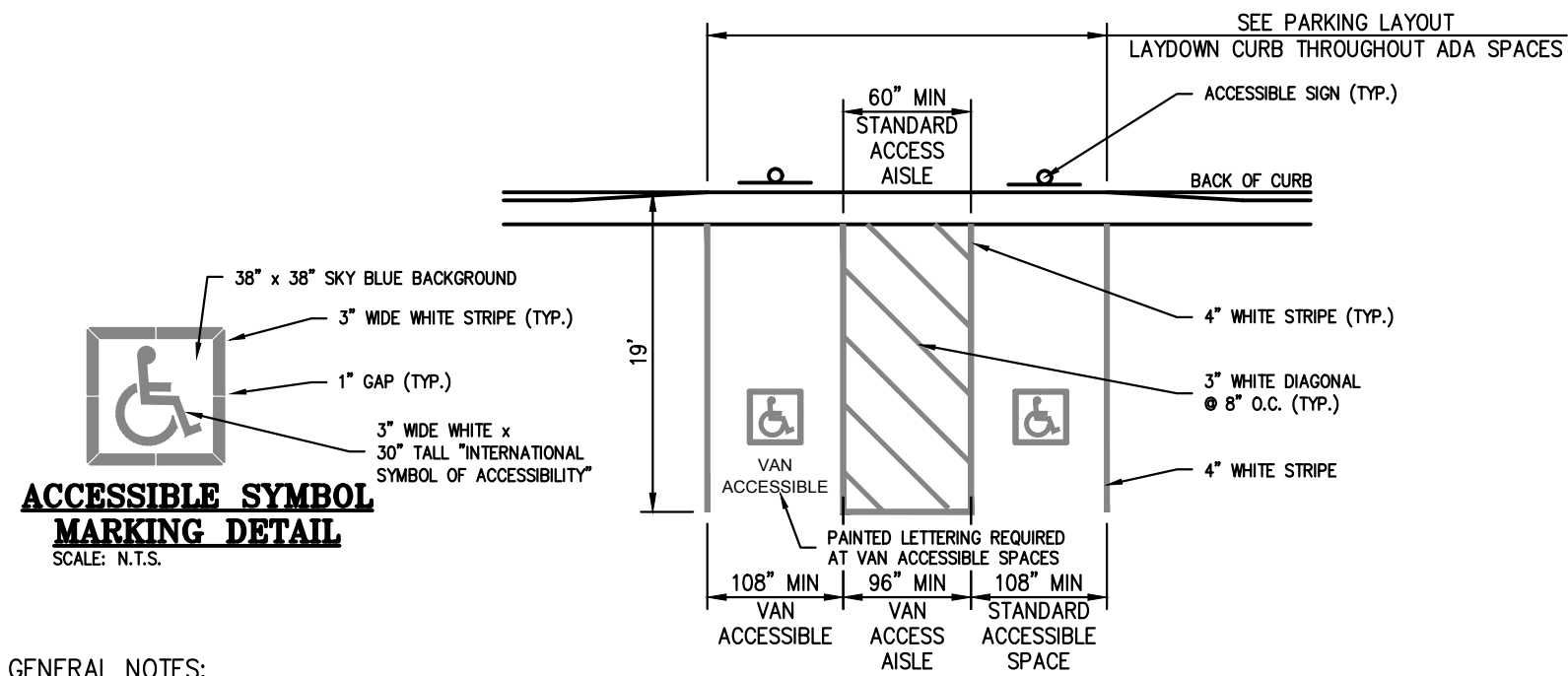
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CROSSWALK DETAIL
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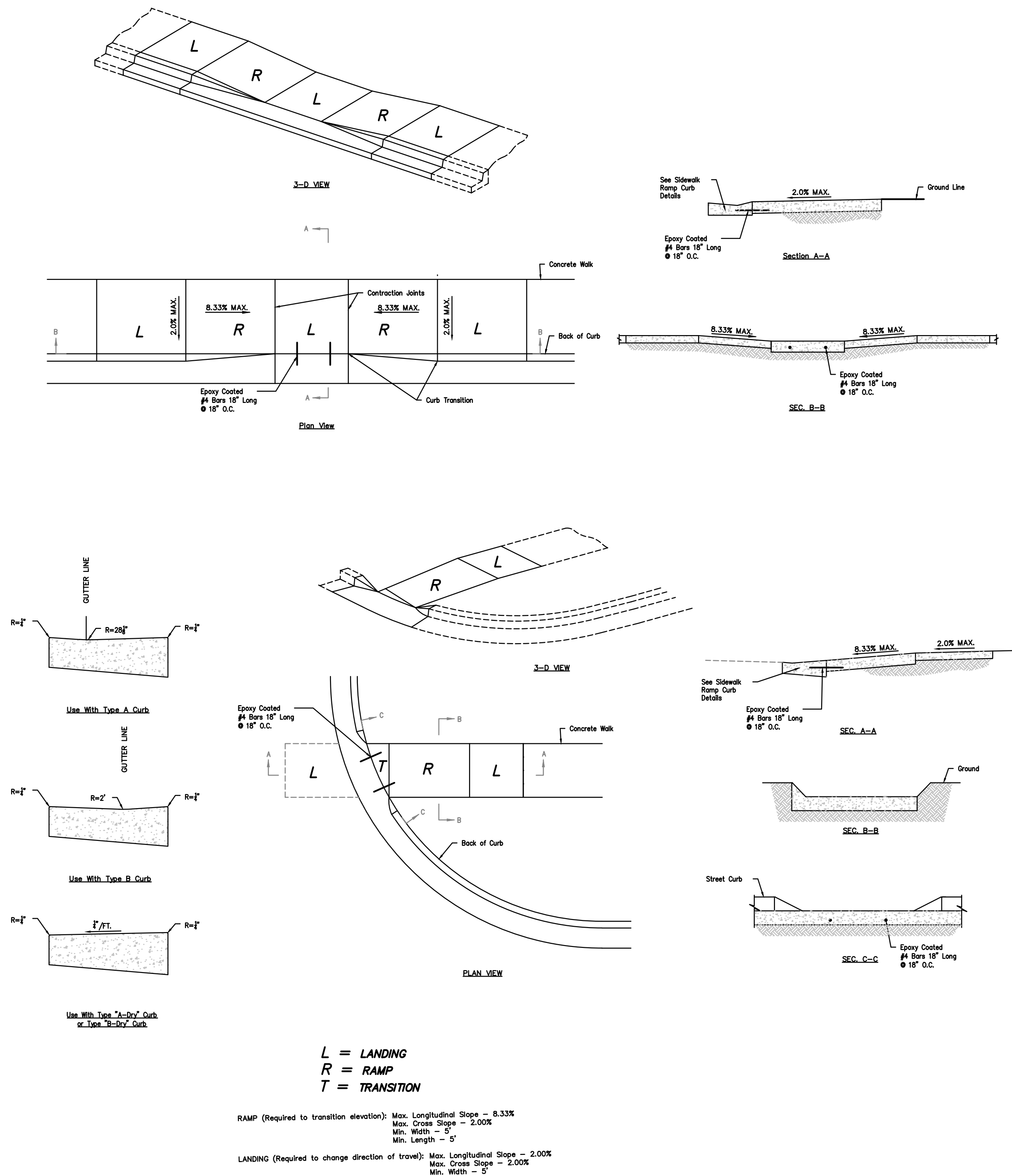


**ACCESSIBLE SIGN DETAIL
IN GRASS AREA**
SCALE: N.T.S.



- GENERAL NOTES:**
- ALL PAVEMENT MARKINGS SHALL BE APPLIED BY A QUALIFIED CONTRACTOR HAVING A MINIMUM 3 YEARS EXPERIENCE IN TRAFFIC GRADE PAVEMENT MARKING APPLICATIONS.
 - PAINT SHALL BE A NON-BLEEDING, QUICK-DRYING, ALKYL PETROLEUM BASE PAINT SUITABLE FOR TRAFFIC-BEARING SURFACE AND SHALL MEET FS TYP-85C & MIXED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS BEFORE APPLICATION.
 - SWEEP AND CLEAN SURFACE TO ELIMINATE LOOSE MATERIAL & DUST.
 - APPLY TWO (2) COATS OF PAINT AT MANUFACTURER RECOMMENDED RATE WITHOUT THE ADDITION OF THINNER, WITH A MAXIMUM OF 100 SQUARE FEET PER GALLON. APPLY WITH MECHANICAL EQUIPMENT TO PRODUCE UNIFORM STRAIGHT EDGES. AT SIDEWALK, CURBS, AND CROSSWALKS USE A STRAIGHTEDGE TO ENSURE A UNIFORM, CLEAN, & STRAIGHT STRIPE.
 - THE FOLLOWING ITEMS SHALL BE PAINTED WITH THE COLORS NOTED BELOW:
A. HANDICAP SYMBOLS: SEE DETAIL THIS SHEET.
B. PARKING STALL STRIPING: WHITE.
 - ACCESSIBLE PARKING SPACE DESIGN LAYOUT SHALL BE IN ACCORDANCE WITH CURRENT ADA REQUIREMENTS.
 - SEE SITE PLANS FOR COMPLETE PARKING LAYOUT.

ACCESSIBLE PARKING SPACE DETAIL
SCALE: N.T.S.



PRIVATE SIDEWALK RAMPS
SCALE: N.T.S.



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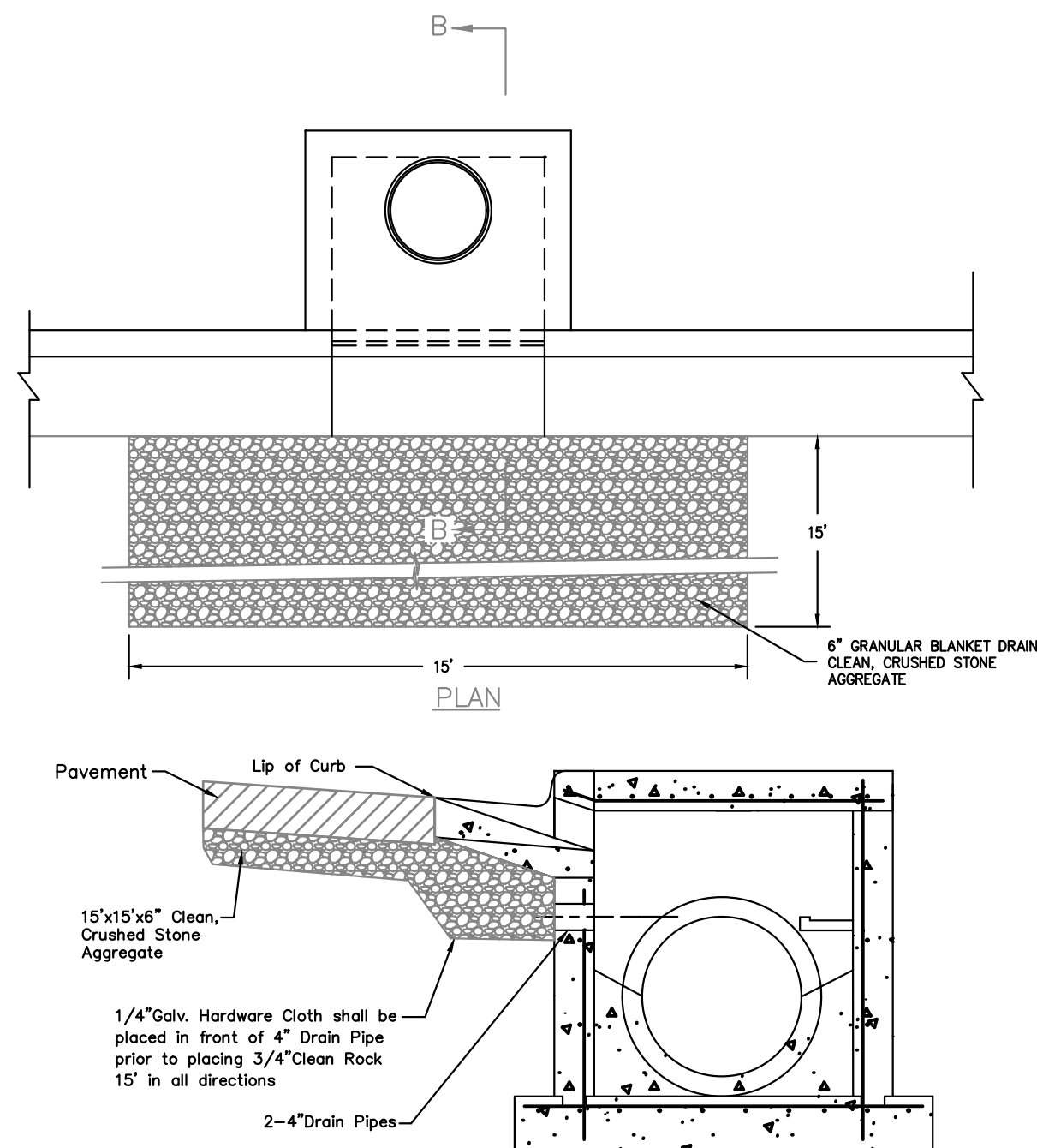


STANDARD DETAILS
ANDY'S FROZEN CUSTARD
630 NW CHIPMAN ROAD
LEE'S SUMMIT, MISSOURI

PROJECT NO.	240159	No.	Date	Revisions:	By	App.
DATE: 04-12-2024	DRAWN: AEB	1.	05-10-2024	REVIEWED PER CITY COMMENTS	AEB	DAF
CHECKED: DAF	APPROVED: JDC	2.	05-30-2024	REVIEWED PER CITY COMMENTS	AEB	DAF
CERTIFICATE OF AUTHORIZATION						
LAND SURVEYING - LS-82						
ENGINEERING - E-361						
CERTIFICATE OF AUTHORIZATION						
LAND SURVEYING - 200701028						
ENGINEERING - 200700209						

RELEASED FOR CONSTRUCTION
As Noted on Plans Review
Development Services Department
Lee's Summit, Missouri
06/18/2024

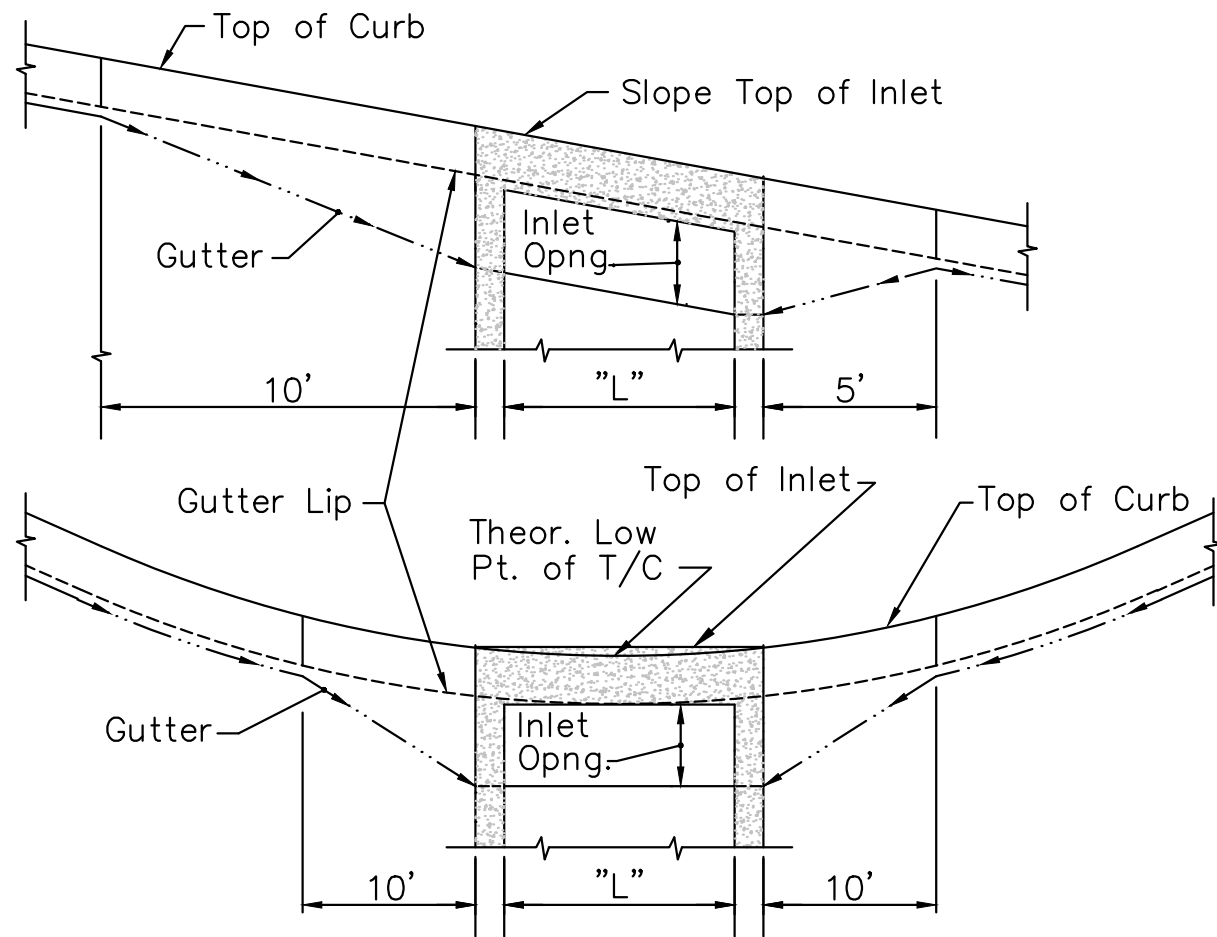
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SECTION B-B

GRANULAR BLANKET DRAIN ADJACENT TO CURB INLETS

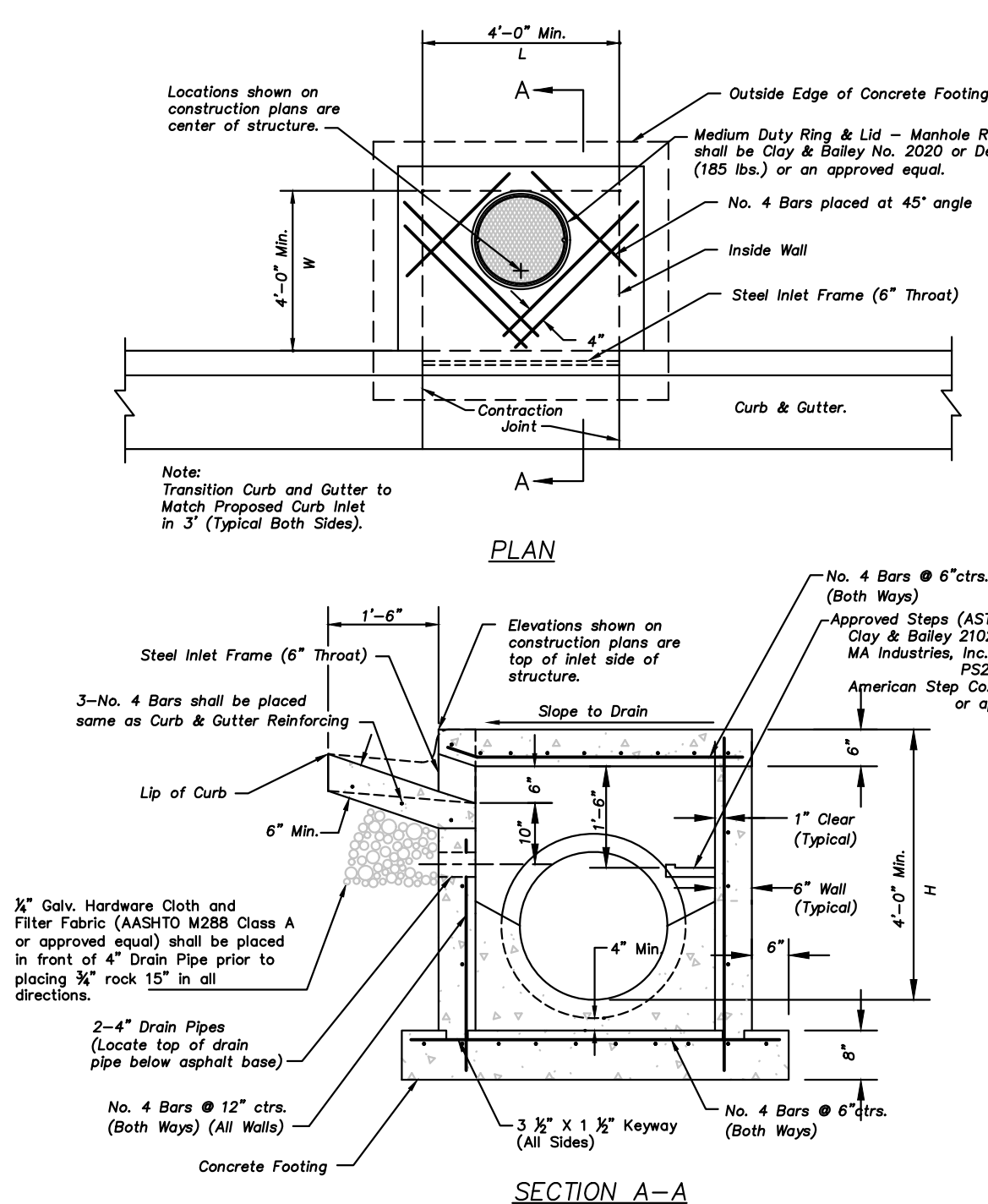
SCALE: N.T.S.



ALL CURB INLETS SHALL CONFORM TO THE GRADE OF THE ADJACENT ROAD/CURB AND BE SET PER THIS DETAIL SHOWN THUS.

INLET SETTING DIAGRAM

SCALE: N.T.S.



SECTION A-A

SCALE: N.T.S.

Non-Setback Curb Inlet Notes

General

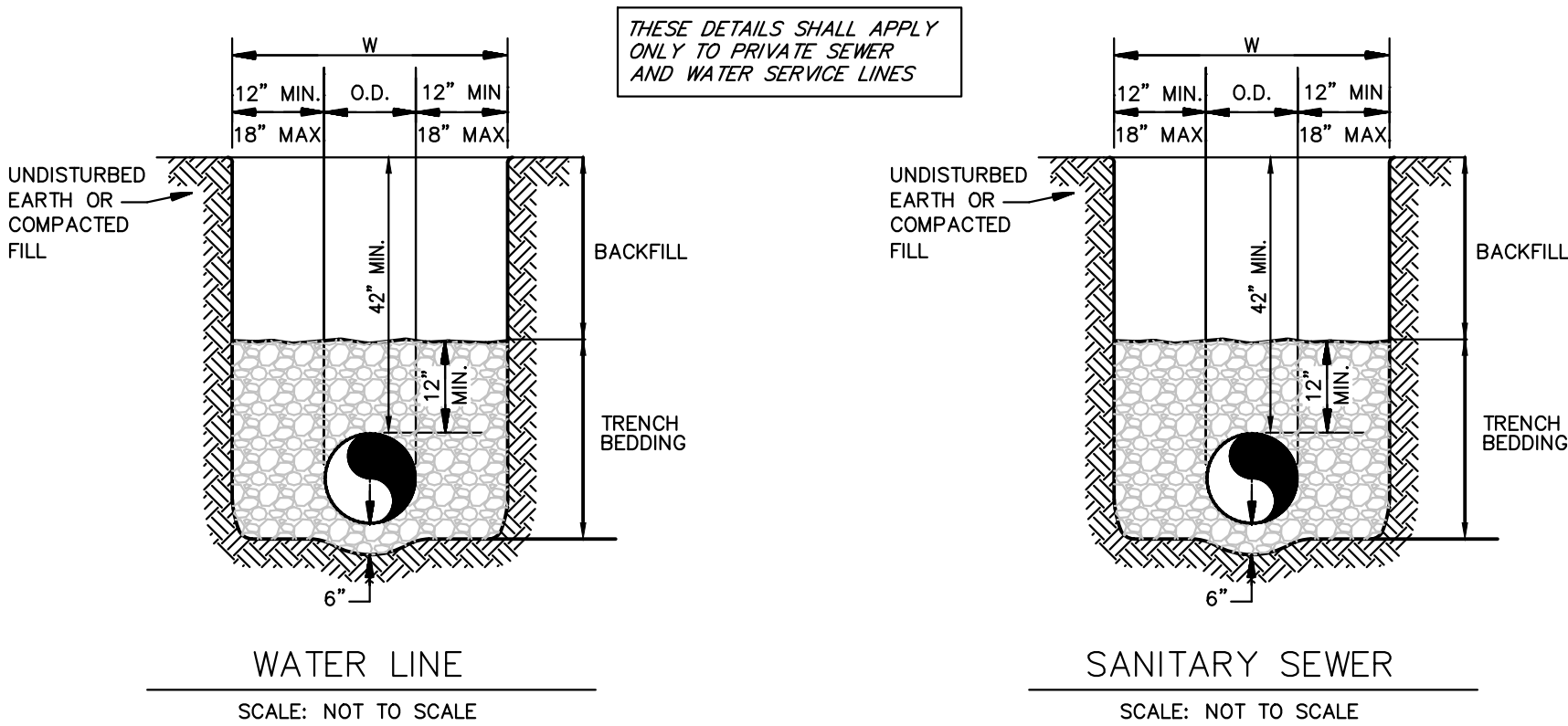
- All storm sewer structures shall be pre-cast or poured in place. If pre-cast structures are used for publicly financed, maintained or administered construction, the top shall be poured in place and the wall steel shall be left exposed to a height 2" below the finish top elevation, or as directed by the City Engineer.
- Pre-cast shop drawings are to be approved by the City Engineer for publicly financed or administered projects.
- Do not scale these drawings for dimensions or clearances. Any questions regarding dimensions shall be brought to the attention of the City Engineer prior to construction.
- The first dimension listed in the construction notes is the "L" dimension. The second dimension is the "W" dimension. The concrete thickness and reinforcement shown is for boxes with ("L" x "W") and ("W" x "H") less than or equal to 20. For boxes with either of these calculations greater than 20, a special design is required.
- Concrete used in this work shall be KCMBAK, as approved by the Kansas City Metropolitan Materials Board, and shall meet the requirements of the City of Olathe.
- Concrete construction shall meet the applicable requirements of the City of Olathe's Technical Specifications.
- Inlet floors shall be shaped with non-reinforced concrete inverts to provide smooth flow.
- Bowl all exposed edges with 3/4" triangular molding.

Concrete

Reinforcing Steel

- Reinforcing steel shall be new billet, minimum Grade 40 as per ASTM A615, and shall be bent cold.
- All dimensions relative to reinforcing steel are to centerline of bars. 2" clearance shall be provided throughout unless noted otherwise. Tolerance of +/- 1/8" shall be permitted.
- All lap splices not shown shall be a minimum of 40 bar diameters in length.
- All reinforcing steel shall be supported on fabricated steel bar supports @ 3'-0" maximum spacing.
- All dowels shall be accurately placed and securely tied in place prior to placement of bottom slab concrete. Sliding of dowels into fresh or partially hardened concrete will not be acceptable.
- The bottom slab shall be at least 24 hours old before placing sidewalk concrete. All sidewalk forms shall remain in place a minimum of 24 hours after sidewalks are poured before removal, and after removal shall be immediately treated with membrane curing compound.
- Pipe connections to pre-cast structures shall have a minimum of 6" of concrete around the entire pipe within 2' of the structure.
- Material selection and compaction requirements for backfill around structures shall be as specified in City of Olathe's Technical Specifications.

Construction



WATER LINE

SCALE: NOT TO SCALE

SANITARY SEWER

SCALE: NOT TO SCALE

REQUIREMENTS PER APWA 2100 AS FOLLOWS:

Sanitary Sewer Bedding Material Gradation Limits (% Passing)		
Sieve Size	3/4"	3/8"
1"	100	
3/4"	90 - 100	90 - 100
3/8"	20 - 55	0 - 5
No. 4	0 - 10	0 - 2
No. 8	0 - 5	0 - 2

Storm Sewer Bedding Material Gradation Limits (% Passing)		
Sieve Size	3/4"	3/8"
1"	100	
3/4"	90 - 100	100
1/2"	80 - 100	80 - 100
3/8"	20 - 55	40 - 77
No. 4	0 - 10	30 - 40
No. 8	0 - 5	0 - 4

Waterline Bedding Material Gradation (% Passing)			
Sieve Size	Type 1 (1/2")	Type 2 (Backshot)	Type 4 (River Sand)
3/4"	95 - 100		
3/8"	40 - 60	100	
1/4"		90 - 100	
No. 4	60 - 80	35 - 50	100
No. 8	0 - 5	0 - 15	10 - 25
No. 20	0	0 - 10	0 - 10

Trench Backfill

- Backfill shall not be placed when material contains frost, is frozen, or a blanket of snow prevents proper compaction.
- The Contractor shall remove from the project site waste material, trees, organic material, rubbish, or other deleterious materials.
- All trash and debris shall be removed from the pipeline excavation prior to backfilling.
- Backfill material shall be carefully placed to avoid damage to or displacement of the pipe, other utilities or structures.
- Unless otherwise specified, all trenches and excavations around structures shall be backfilled to the original ground surface.
- Outside of paved areas, the backfill material shall be placed in layers not exceeding 8-inches in loose thickness and be compacted to at least 90% of maximum density. Compaction testing shall be at the discretion of the Engineer.
- The method of compaction and the equipment used shall be appropriate for the material to be compacted and shall not transmit damaging shocks to the pipe.
- The combination of the thickness of the layer, the method of compaction and the type of compaction equipment used shall be at the discretion of the Contractor subject to obtaining the required densities.

Pipe Embedment: All water, sanitary sewer, and storm sewer pipe shall be bedded in bedding aggregate as specified herein.

- Bedding shall cover the entire width of trench.
- The first layer of bedding placed on the bottom of excavation shall be in accordance with Figures 1 through 3.
- Bedding at bottom of trench, in the middle 1/3 of trench under the pipe shall be loose.
- After pipe is placed, bedding material shall be placed in layers in accordance with manufacturer's recommendations.
- Second layer of bedding material shall be placed under the lower haunches of the pipe up to the springline (center of pipe). Material shall be spaced to be placed under haunches and compacted at the springline elevation prior to placing additional bedding material.
- The third layer of bedding material shall be placed to 12 inches over the top of pipe.
- Contractor shall take measures to prevent pipe from floating during placement of bedding material so that pipe maintains proper line and grade as shown on the Plans.

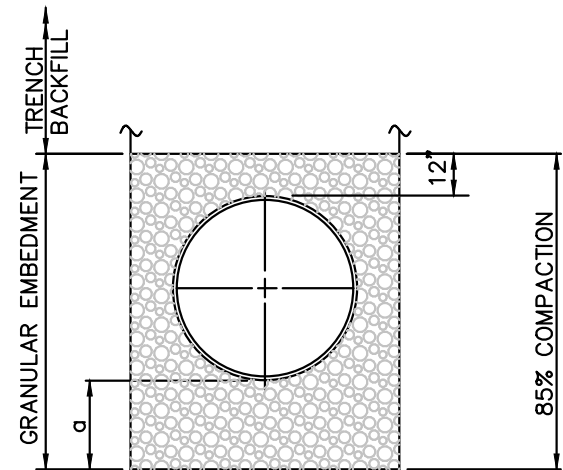


TABLE OF EMBEDMENT DEPTH BELOW PIPE		
D	MIN. SOIL	MIN. ROCK
LESS THAN 60"	4"	6"
60" OR LARGER	6"	12"

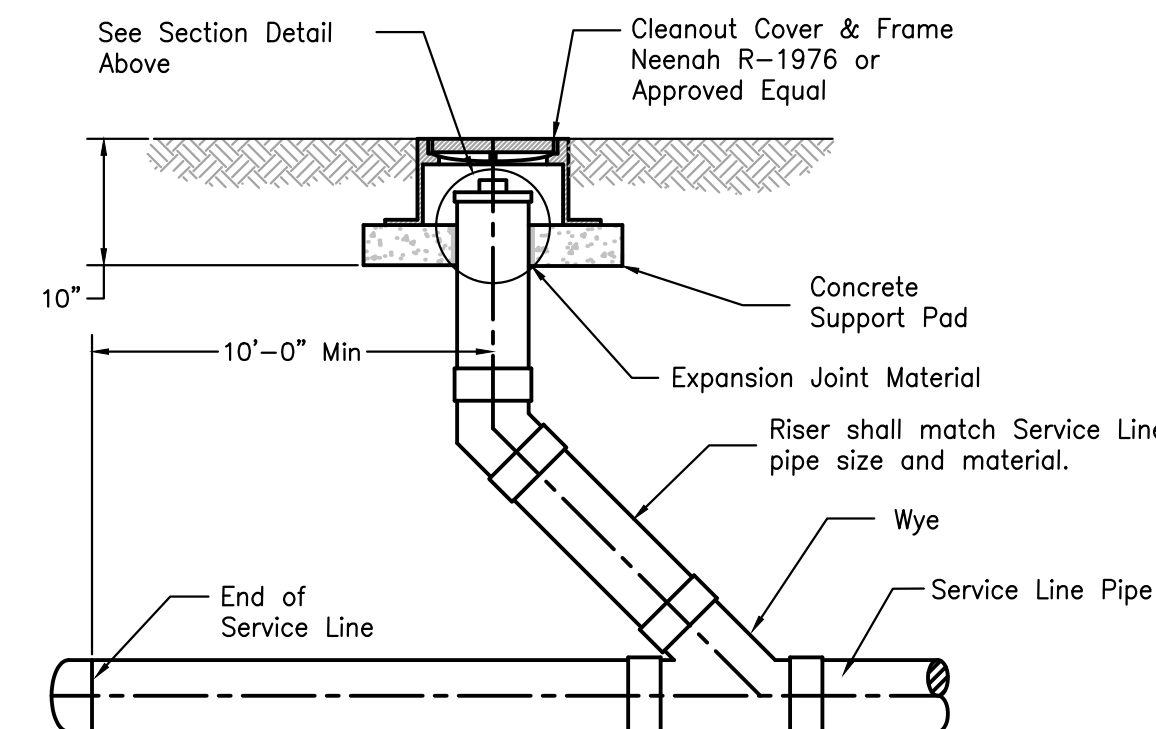
LEGEND

D NOMINAL PIPE SIZE
a EMBEDMENT BELOW PIPE

GRANULAR EMBEDMENT

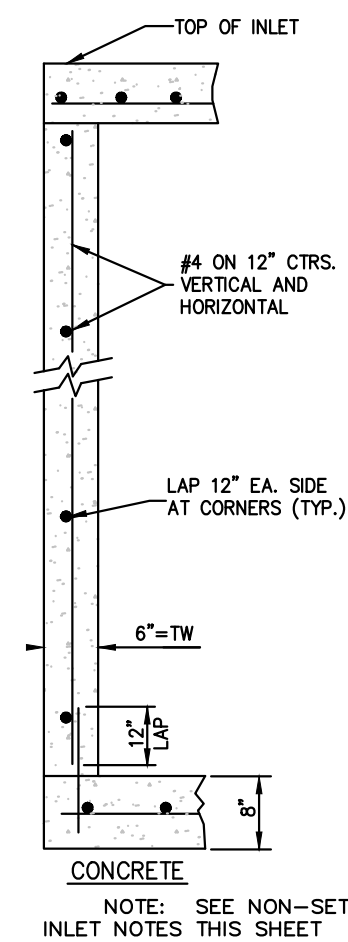
EMBEDMENTS FOR STORM SEWER PIPE

SCALE: N.T.S.

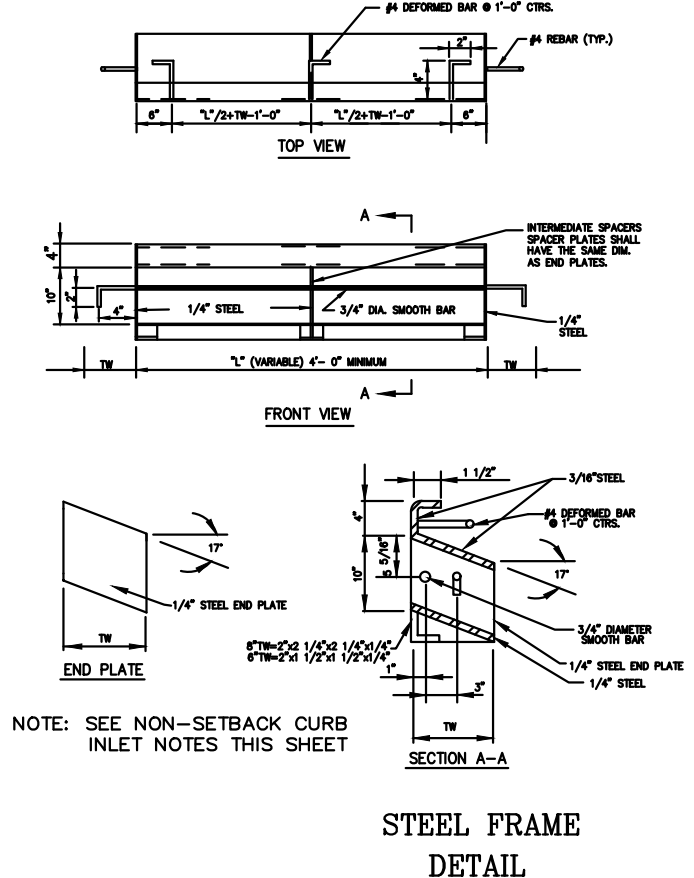


CLEANOUT DETAIL (NON-PAVED AREAS)

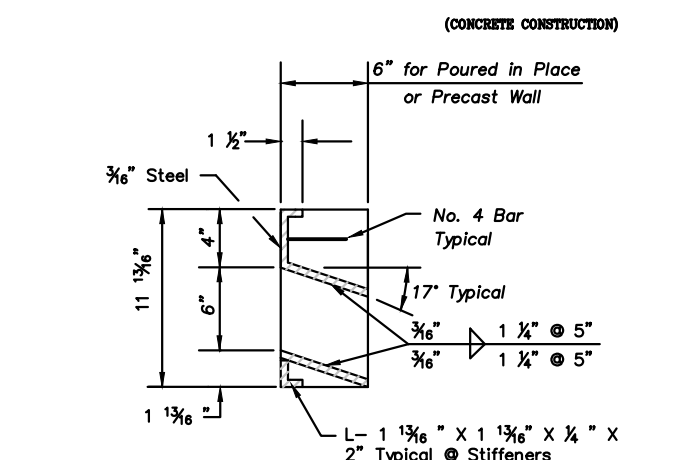
SCALE: N.T.S.



WALL SECTIONS

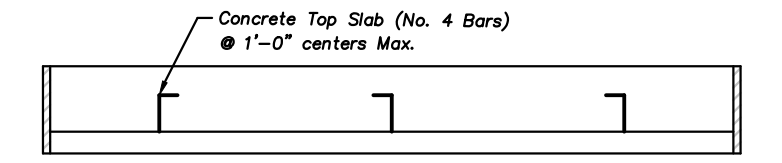


STEEL FRAME DETAIL



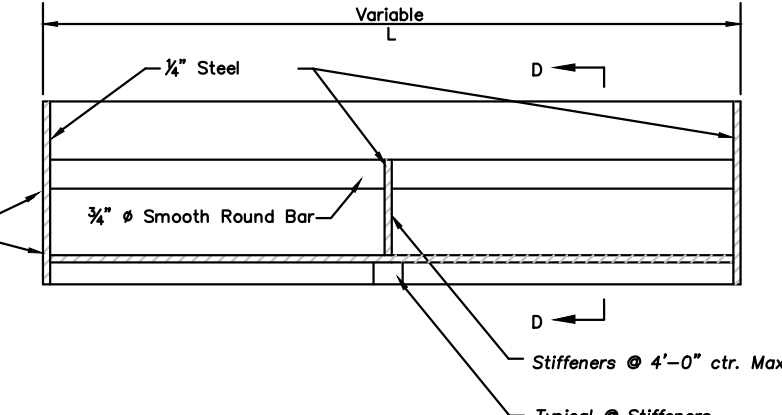
SECTION D-D (6" THROAT)

NTS



TOP VIEW

NTS



FRONT VIEW (6" THROAT)

NTS

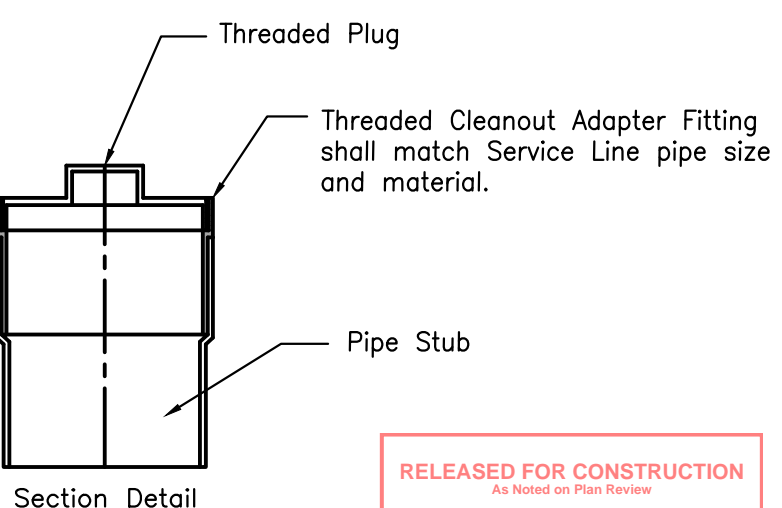
Steel Inlet Frame Notes:

- All welds shall be performed in accordance with appropriate AWS Specifications and Procedures.
- All welds on exposed surfaces shall be dressed so as to provide a pleasing finished appearance.
- The entire frame shall be hot dip zinc coated in accordance with ASTM A-123.

NON-SETBACK CURB INLET

(6" Throat)

SCALE: N.T.S.



Section Detail

RELEASED FOR CONSTRUCTION
As Noted on Plan Review
Development Services Department
Lee's Summit, Missouri
06/18/2024

PROJECT NO.	240159	No.	Date	Revisions:	By	App.
DATE: 04-12-2024	DRAWN: AEB	1.	05-10-2024	REVISED PER CITY COMMENTS	AEB	DAF
CHECKED: DAF	APPROVED: JOC	2.	05-30-2024	REVISED PER CITY COMMENTS	AEB	DAF
CERTIFICATE OF AUTHORIZATION						
LAND SURVEYING - LS-82						
ENGINEERING - E-361						
CITY OF ALBUQUERQUE						
RESURVEYING - 200701028						
ENGINEERING - 200700209						

SHEET

C7.2

SPECIFICATIONS

- Notes:
- 4" FPT inlet/outlet with 4" plain end adapters, single inlet and triple outlet.
 - Unit weight - w/ cast iron covers: 190 lbs. (For wet weight add 1,043 lbs.)
 - Maximum operating temperature: 150° F continuous
 - Capacities - Liquid: 125 gal.
Grease: 861 lbs. (118 gal.) @75 GPM
Solids: 31 gal.
 - For gravity drainage applications only.
 - Do not use for pressure applications.
 - Cover placement allows full access to tank for proper maintenance.
 - Vent not required unless per local code.
 - Engineered inlet and outlet diffusers with inspection ports are removable to inspect / clean piping.
 - Integral air relief / Anti-siphon / Sampling access.
 - Adjustable cover adapter provides up to 4" of additional height.
 - Designed for below-grade, above-grade, indoor and outdoor installations.
 - Safety Star®, access restrictor built into cover adapter, prevents accidental entry to tank (450 lb rating).

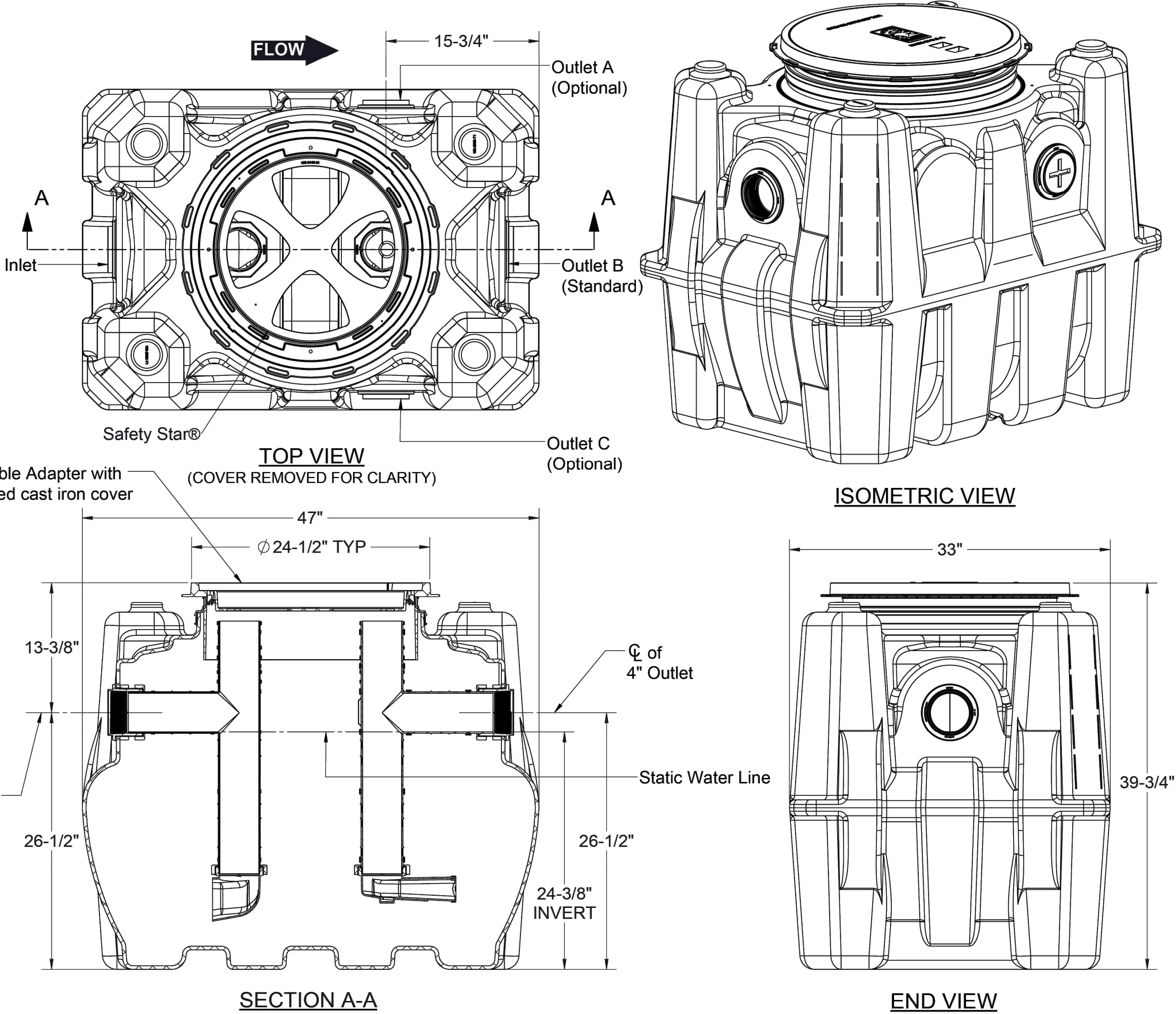
ENGINEER SPECIFICATION GUIDE

Schier Great Basin™ grease interceptor model # GB-75 shall be lifetime guaranteed and made in USA of seamless, rotationally-molded polyethylene with minimum 3/8" uniform wall thickness. Interceptor shall be furnished for above or below-grade installation with adjustable cover adapter, Safety Star® access restrictor built into each cover adapter, and three outlet options. Interceptor shall be certified to ASME A112.14.3 (Type D) and CSA B481.1. Interceptor flow rate shall be 75 GPM. Interceptor grease capacity shall be 861 lbs. Cover shall provide water/gas-tight seal and have minimum 16,000 lbs. load capacity.

CERTIFIED PERFORMANCE

Great Basin™ hydromechanical grease interceptors are third party performance-tested and listed by IAPMO to ASME #A112.14.3 and CSA B481.1 grease interceptor standards and greatly exceed requirements for grease separation and storage. They are compliant to the Uniform Plumbing Code and the International Plumbing Code.

Type D certification does not require a flow control



SPECIFICATION SHEET

MODEL NUMBER:

GB-75

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SCHIER PRODUCTS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SCHIER PRODUCTS IS PROHIBITED.

PART NUMBER: 4045-007-02

DESCRIPTION:

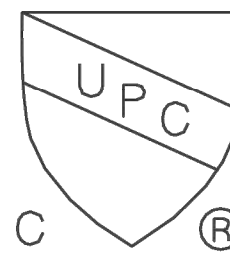
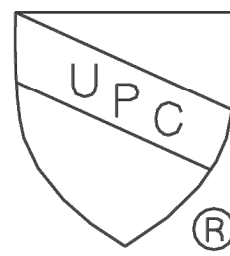
GB-75 GREASE INTERCEPTOR 75 GPM, 4" INLET/OUTLET, H-20 RATED CAST IRON COVER

DWG BY: C. BUSENITZ

DATE: 4/14/2022

REV: -

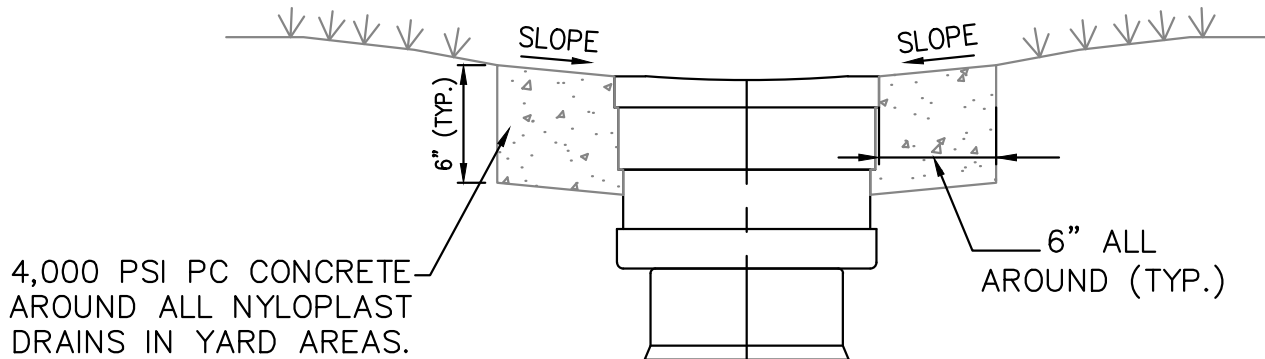
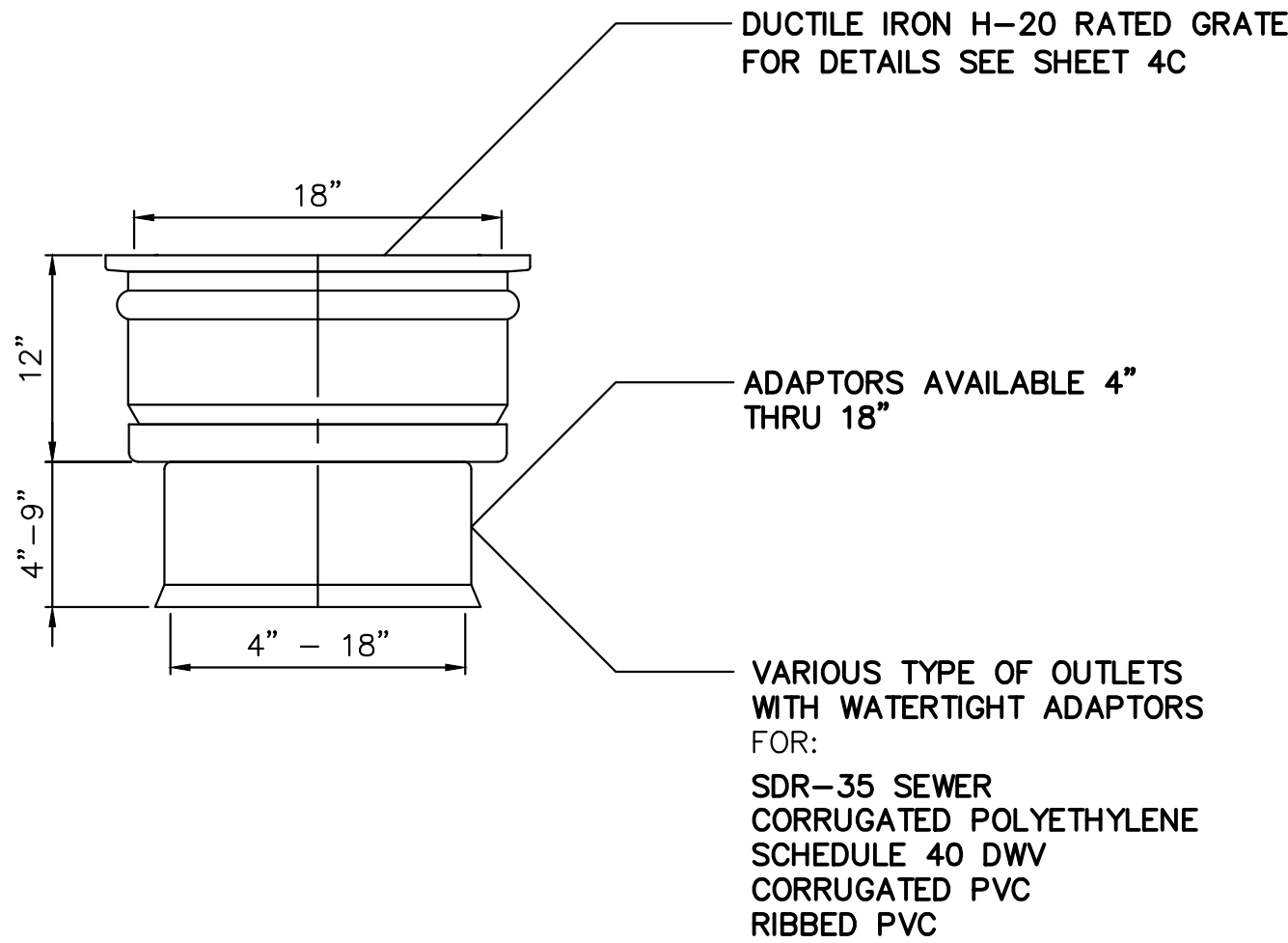
ECO: -



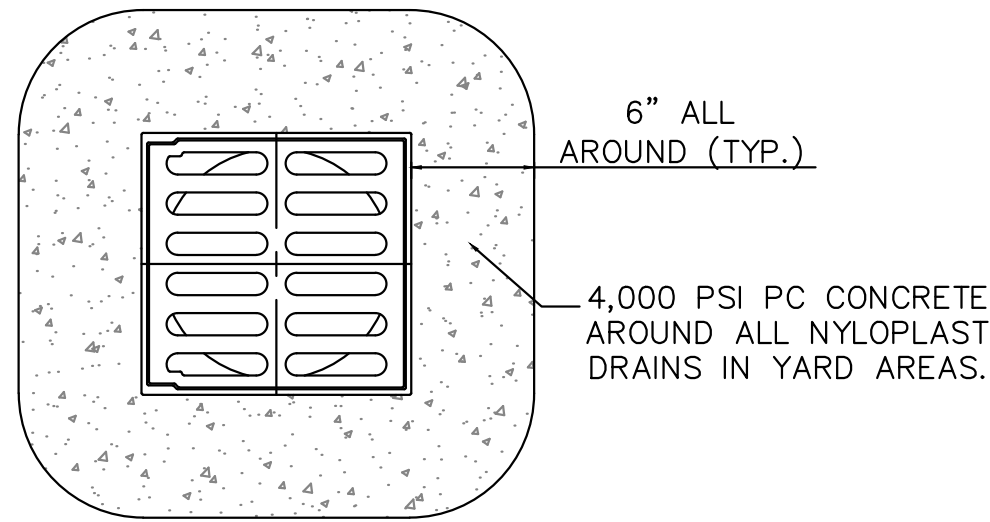
SCHIER

6455 Woodland Dr
Shawnee, KS 66218
Tel: 913-951-3300
Fax: 913-951-3399
schierproducts.com

24" NYPOLAST INLINE DRAIN DETAIL



SECTION



PLAN

NOTE:
CONTRACTOR TO USE STANDARD GRATE IN GRASS OR LANDSCAPING AREAS AND TO USE PEDESTRIAN GRATE IN SIDEWALK AREAS.

DRAIN GRATE CONCRETE BUFFER DETAIL

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As Noted on Plan Review
Development Services Department
Lee's Summit, Missouri
06/18/2024



PHILIPS ENGINEERING, INC.
1270 N. Winchester
Olathe, Kansas 66061
(913) 393-1155
Fax (913) 393-1165
www.philipsengineering.com

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ENGINEERING
IMPLEMENTATION



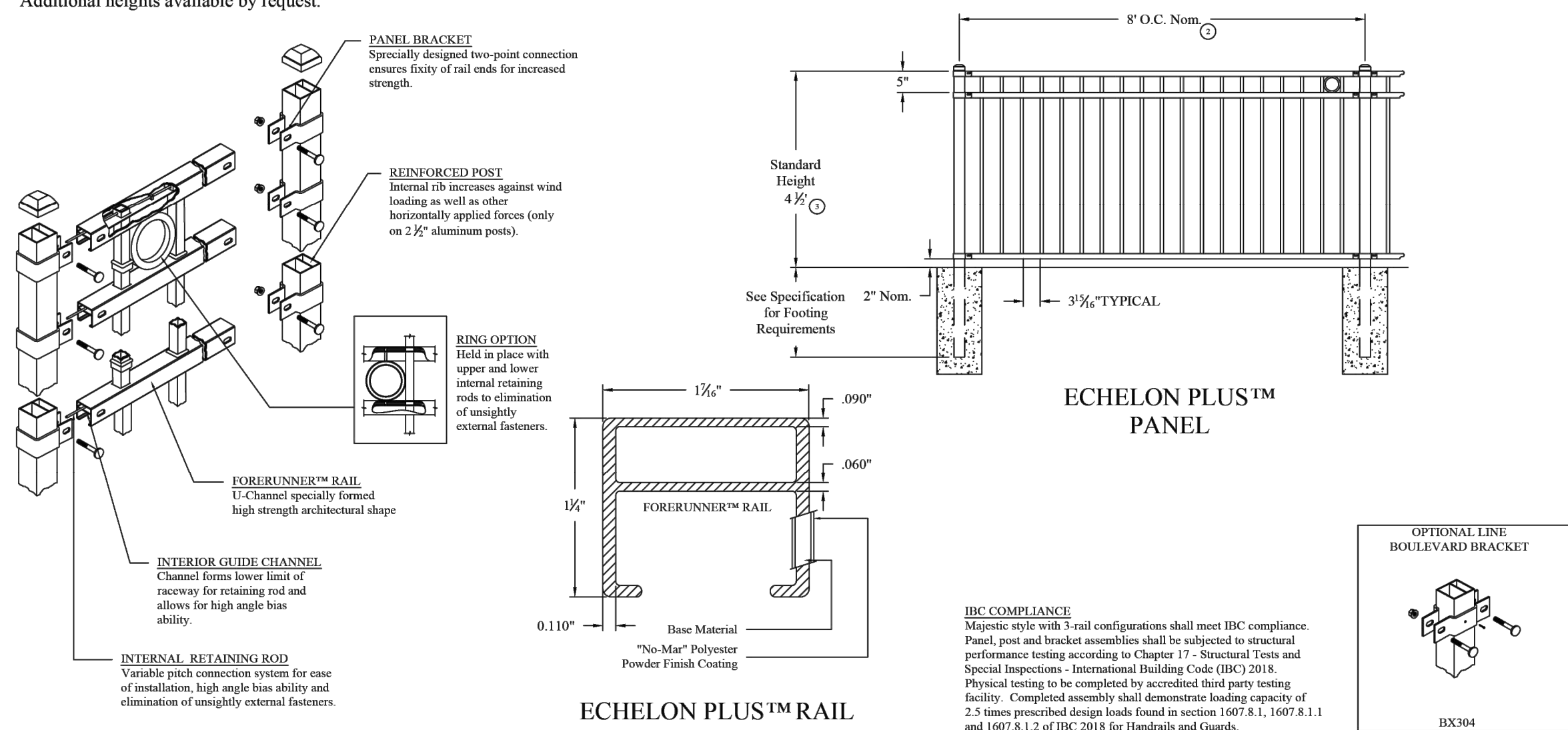
STANDARD DETAILS
ANDY'S FROZEN CUSTARD
630 NW CHIPMAN ROAD
LEE'S SUMMIT, MISSOURI

PROJECT NO.	240159	No.	Date	By	App.
DATE	04-12-2024	DRAWN	AEB	1.	05-10-2024
CHECKED	DAF	APPROVED	JDC	2.	05-30-2024
CORROBORATE DATE OF AUTHORIZATION					
LAND SURVEYING - LS-82					
ENGINEERING - E-361					
CERTIFICATE OF AUTHORIZATION					
LAND SURVEYING-200701028					
ENGINEERING-200700039					

SHEET

C7.3

- NOTES:
- Post size and gauge depends on fence height and wind loads. See ECHELON PLUS™ specifications for post sizing chart.
 - Values shown are nominal and not to be used for installation purposes. See product specification for installation requirements.
 - Additional heights available by request.



REV C (10/20)

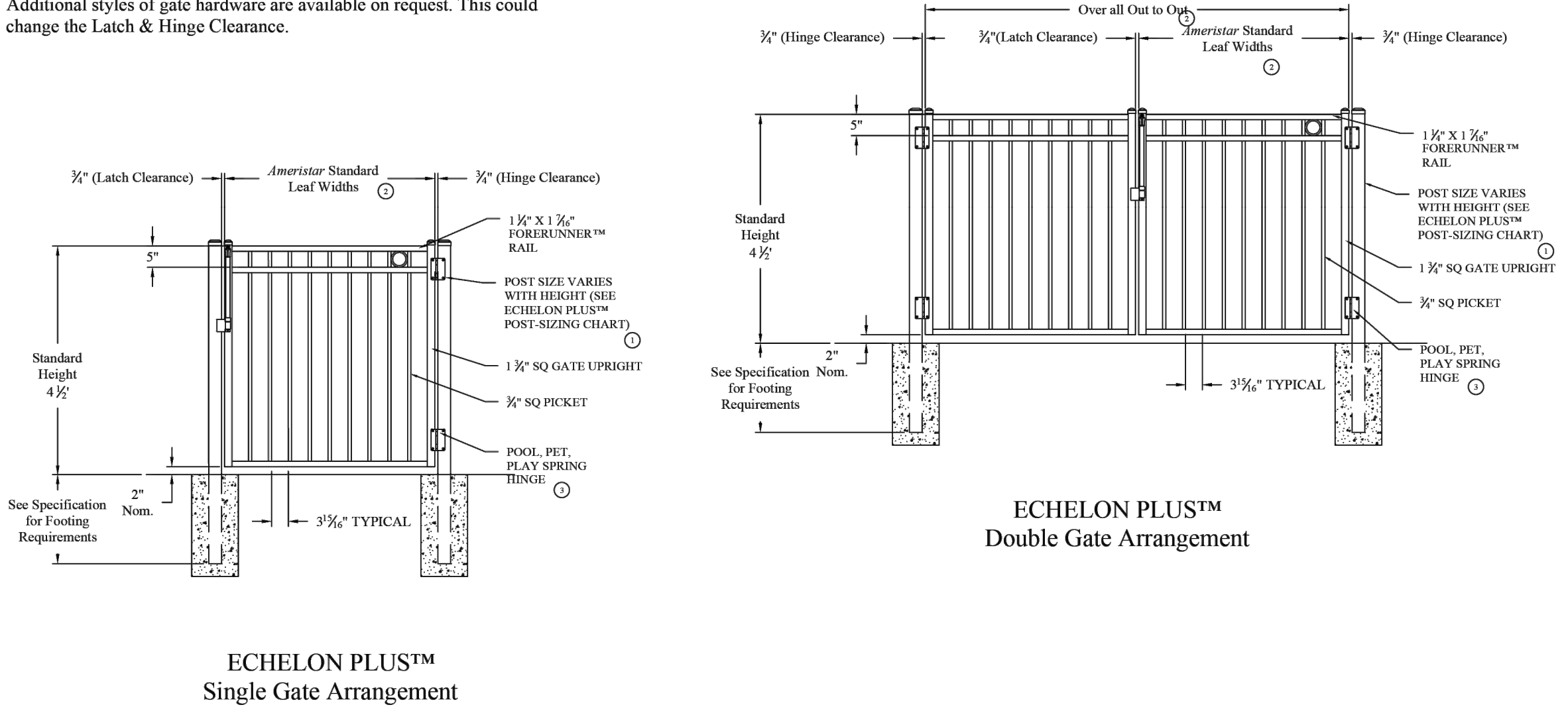


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ASSA ABLOY, the global leader in door opening solutions

AMERISTAR
ASSA ABLOY

- NOTES:

- Post size depends on fence height, weight, and wind loads. See Echelon Plus™ post sizing chart.
- See Ameristar Gate Table for standard out to outs. Custom gate openings available for special out to out/leaf widths.
- Additional styles of gate hardware are available on request. This could change the Latch & Hinge Clearance.

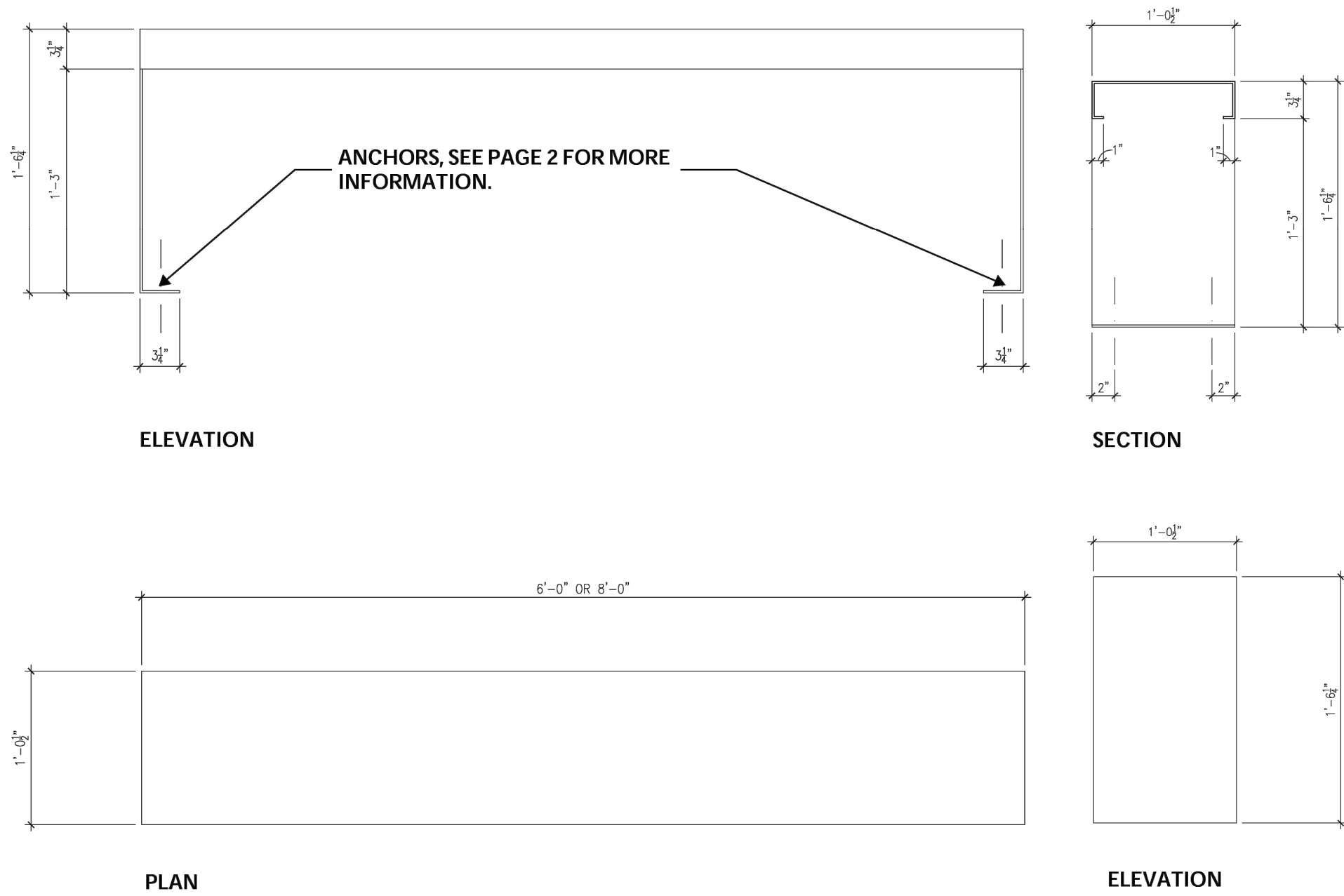


REV C (10/20)



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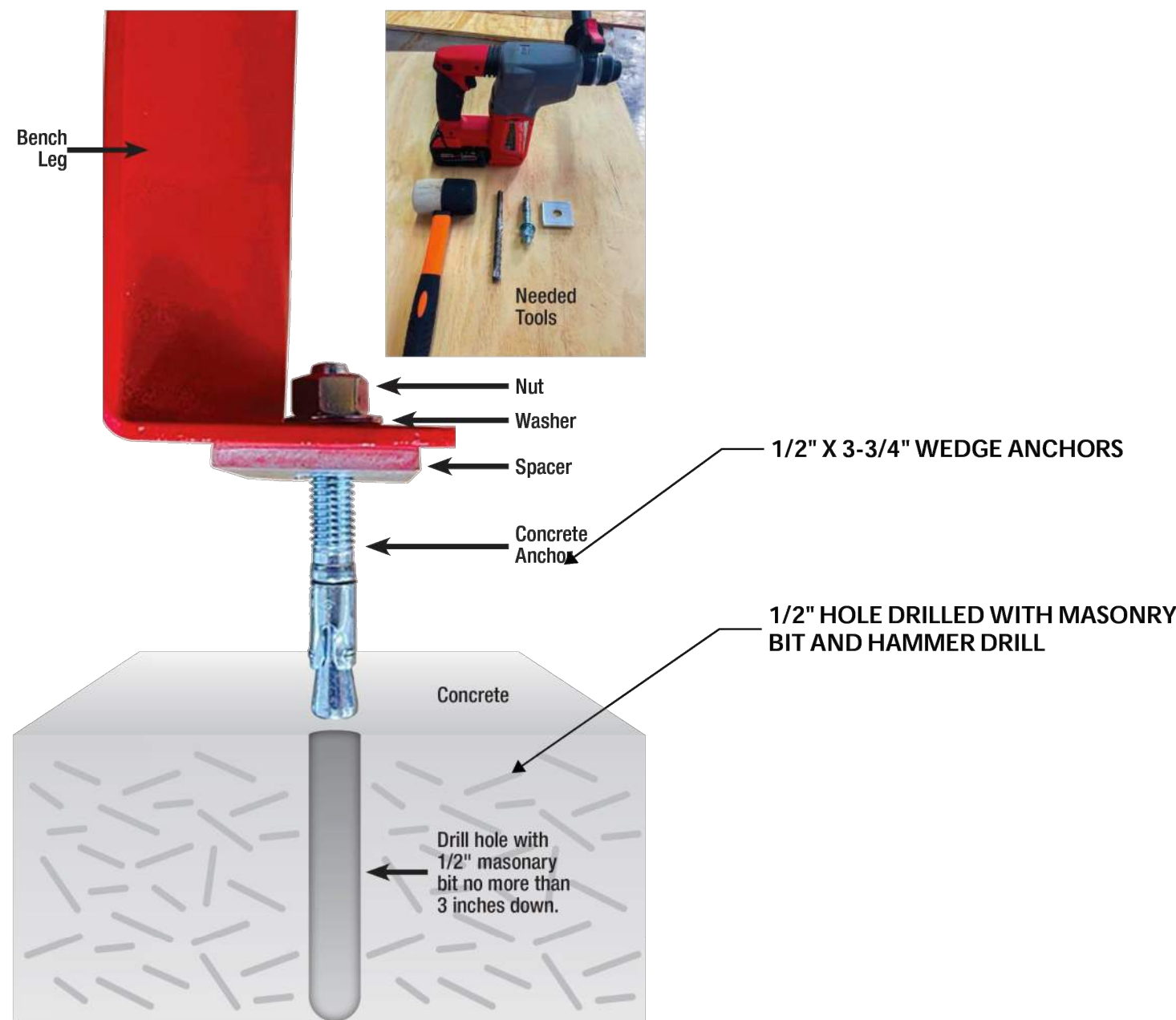


REFER TO PAGE 2 FOR NOTES AND ADDITIONAL INFORMATION OF BENCH INSTALLATION AND FINISHES.

BENCH EXHIBIT

NOVEMBER 8, 2021

PAGE 1



INSTALLATION DIAGRAM

BENCH EXHIBIT

NOVEMBER 8, 2021

PAGE 2



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Fax (913) 393-1165
www.philipsengineering.com

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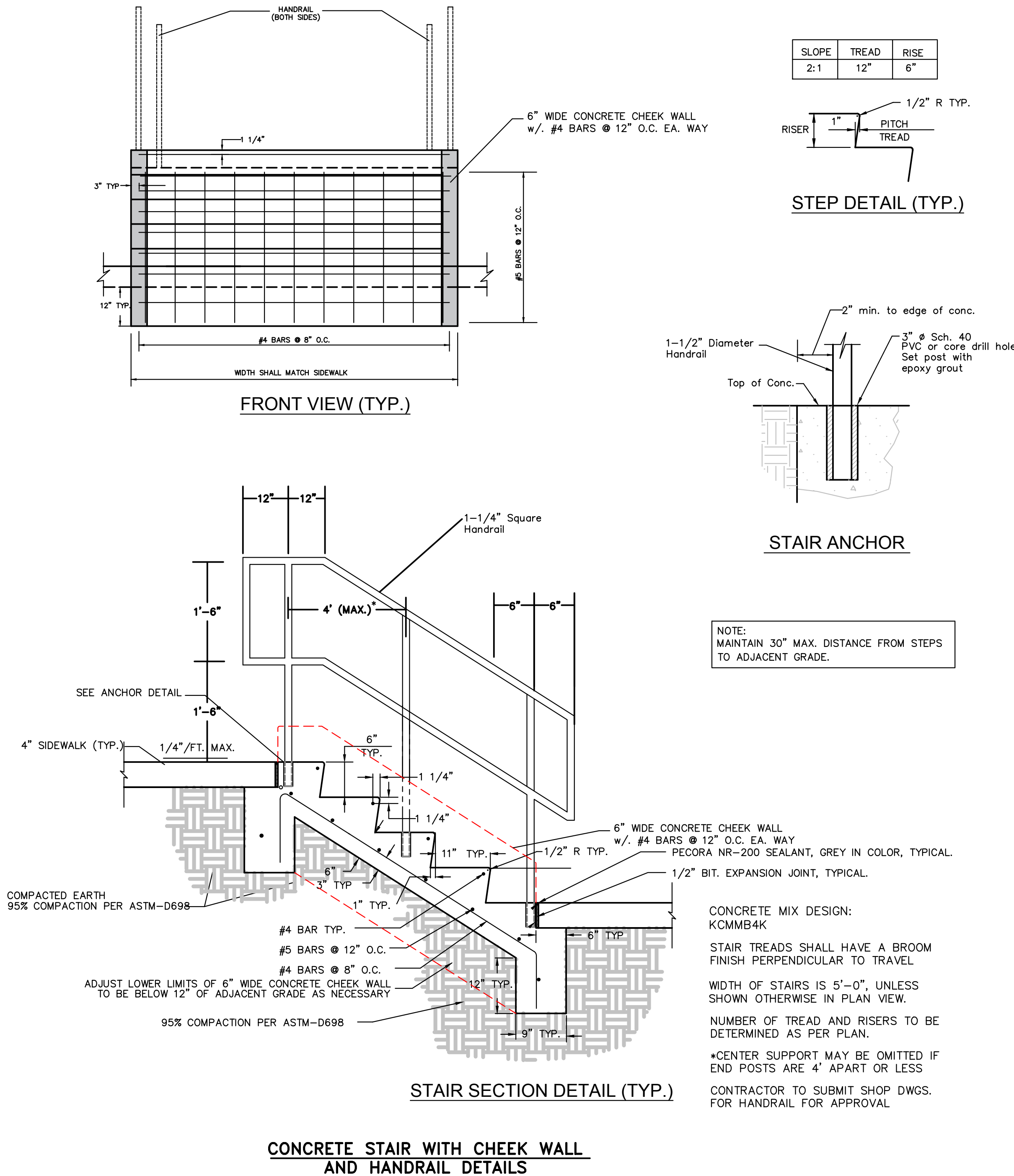
STANDARD DETAILS
ANDY'S FROZEN CUSTARD
630 NW CHIPMAN ROAD
LEE'S SUMMIT, MISSOURI

PROJECT NO.	240159	No.	1.	Date	05-10-2024	Revisions:	By	App.
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CHECKED	DAF	APPROVED	JDC	2.	05-30-2024	REVISED PER CITY COMMENTS	AEB	DAF
CERTIFICATE OF AUTHORIZATION								
LAND SURVEYING - LS-82								
ENGINEERING - E-361								
CERTIFICATE OF AUTHORIZATION								
LAND SURVEYING-200700128								
ENGINEERING-200700209								

SHEET

C7.4

\\PHILIPS-SERVER\Projects\Projects\240159\Drawings\Permit Plans\DETAILS - PRIVATE.dwg Lypsiak:STMS May 31, 2024 2:56pm Daniel Finn



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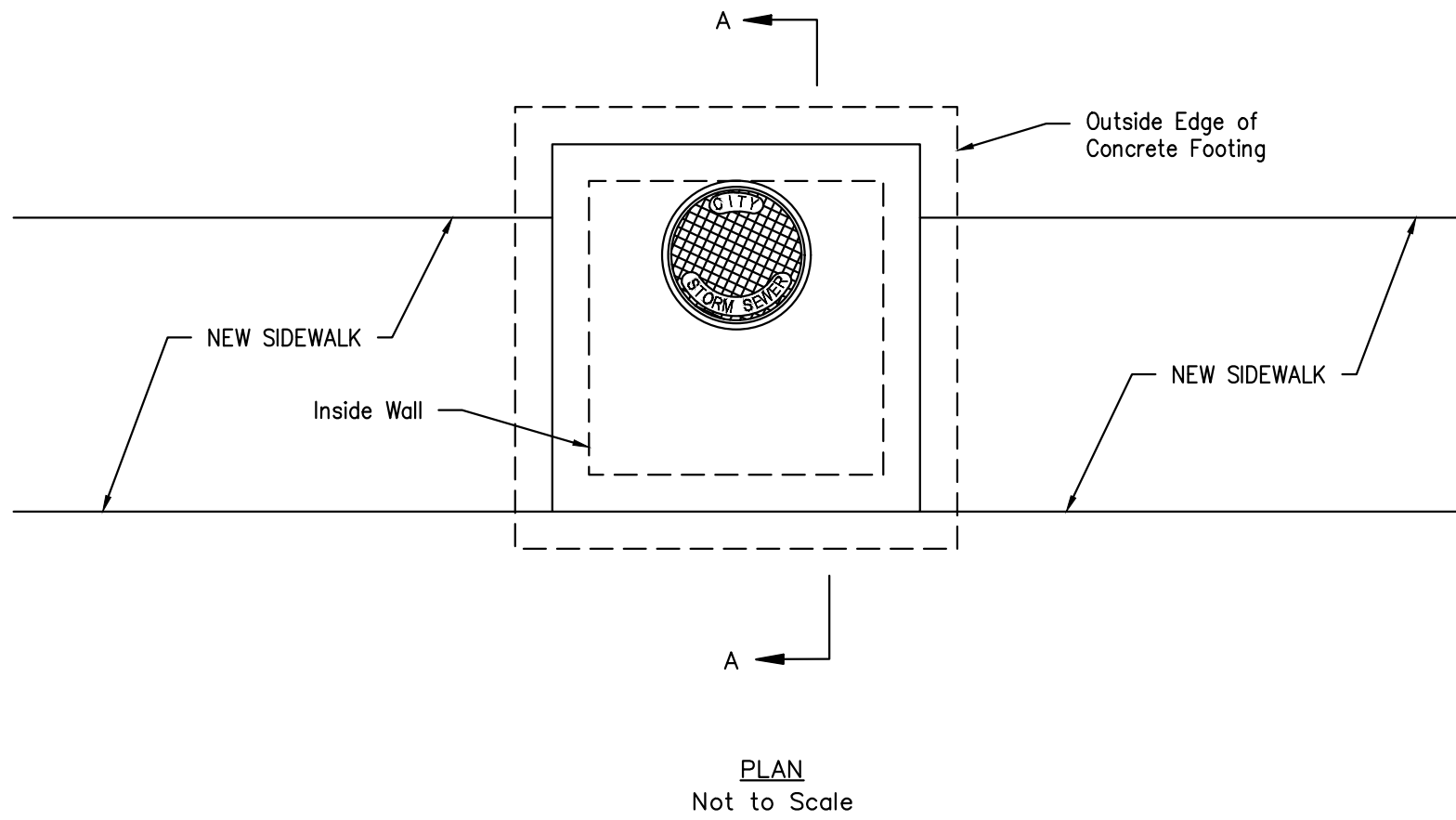
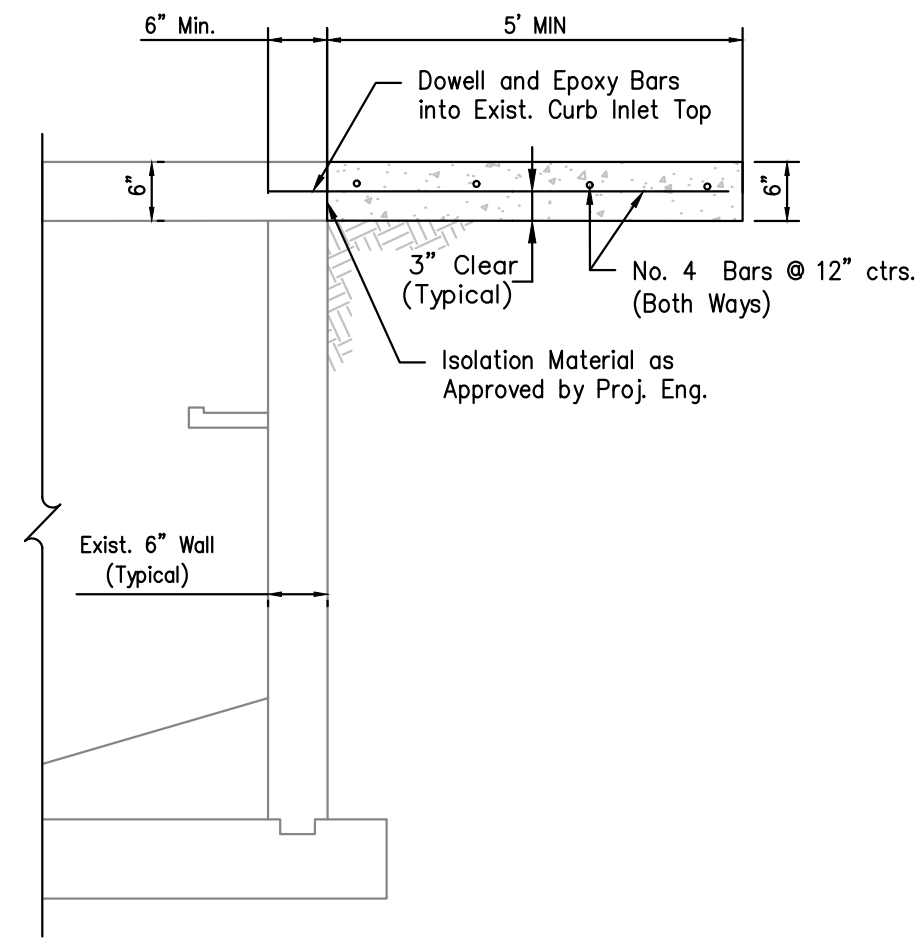
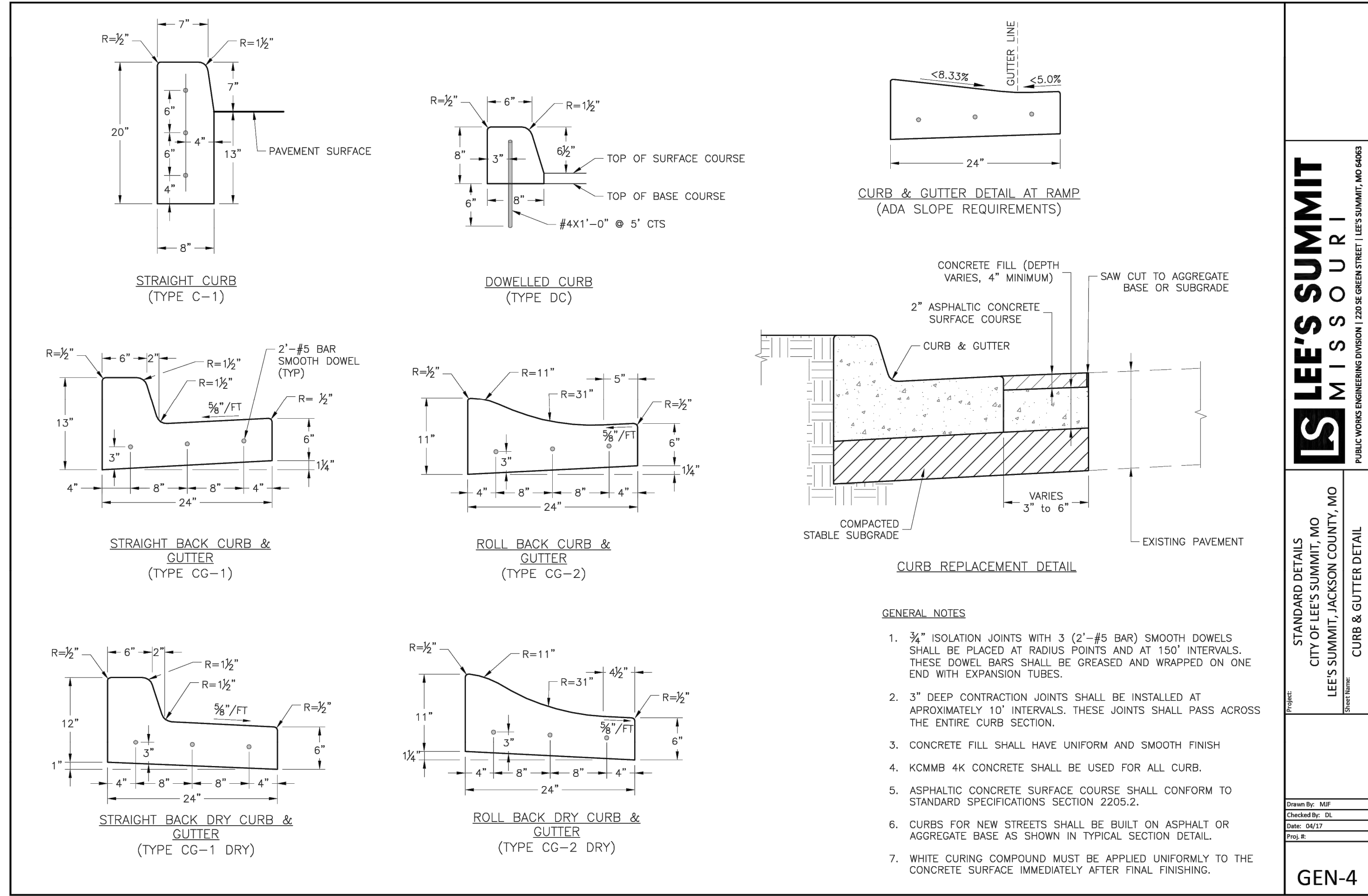
STANDARD DETAILS
ANDY'S FROZEN CUSTARD
630 NW CHIPMAN ROAD
LEE'S SUMMIT, MISSOURI

PROJECT NO.	240159	No.	Date	By	App.
DATE: 04-12-2024	DRAWN: AEB	1.	05-10-2024	AEB	DAF
CHECKED: DAF	APPROVED: JDC	2.	05-30-2024	AEB	DAF
CORPORATE SEAL OF AUTHORIZATION					
LAND SURVEYING - LS-82					
ENGINEERING - E-361					
CERTIFICATE OF AUTHORIZATION					
LAND SURVEYING-2007001028					
ENGINEERING-2007000209					

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C7.5

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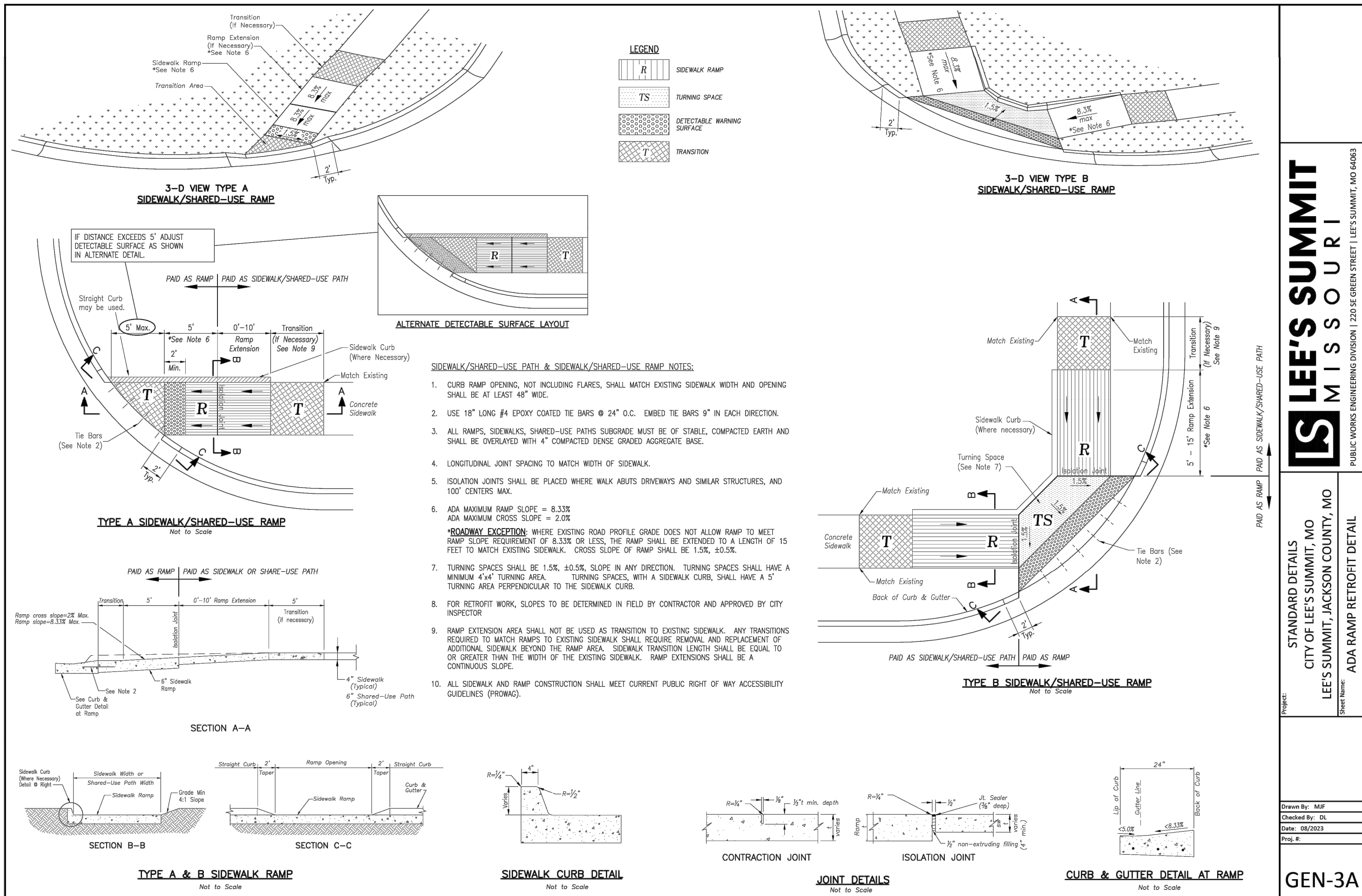
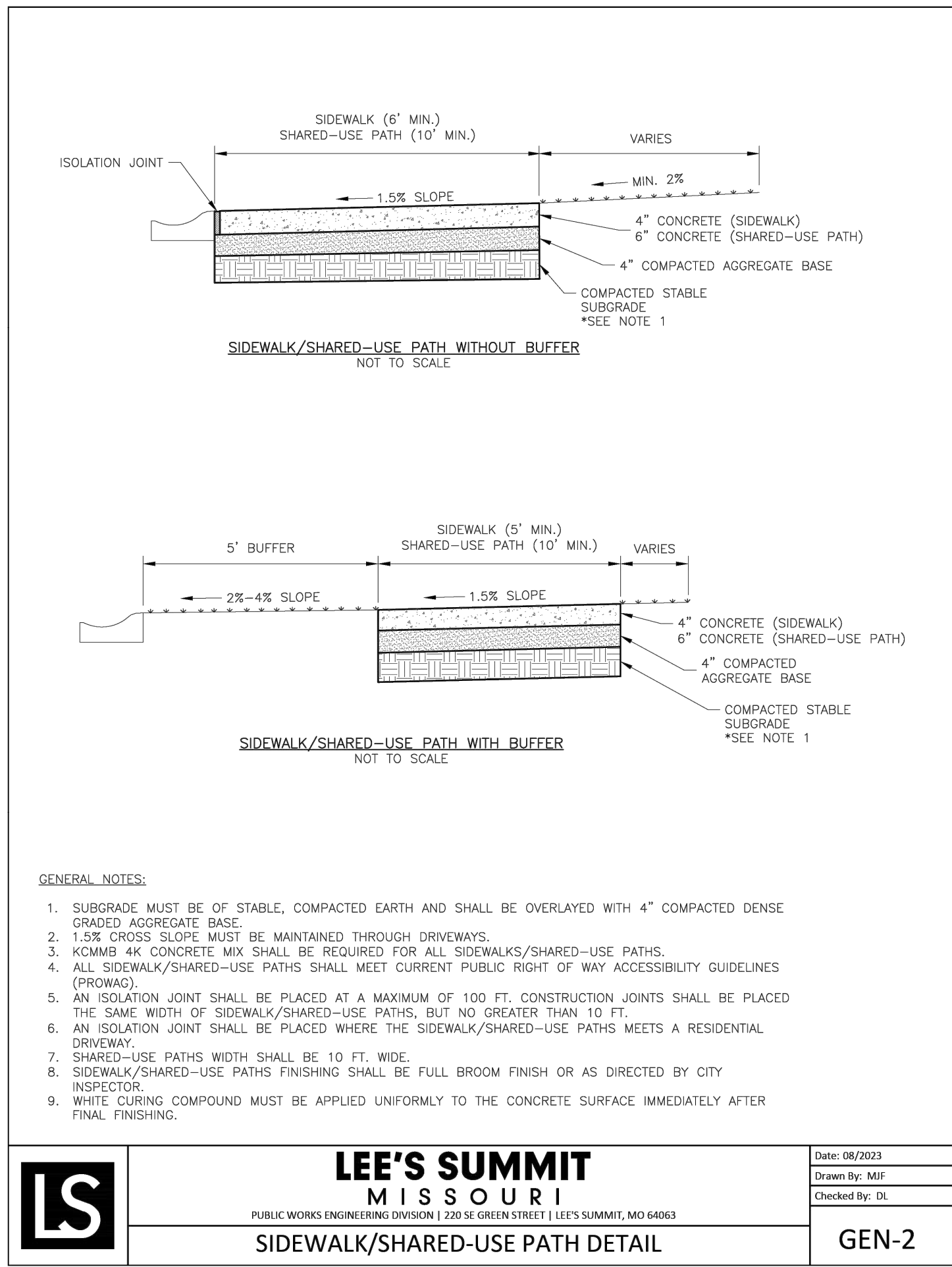
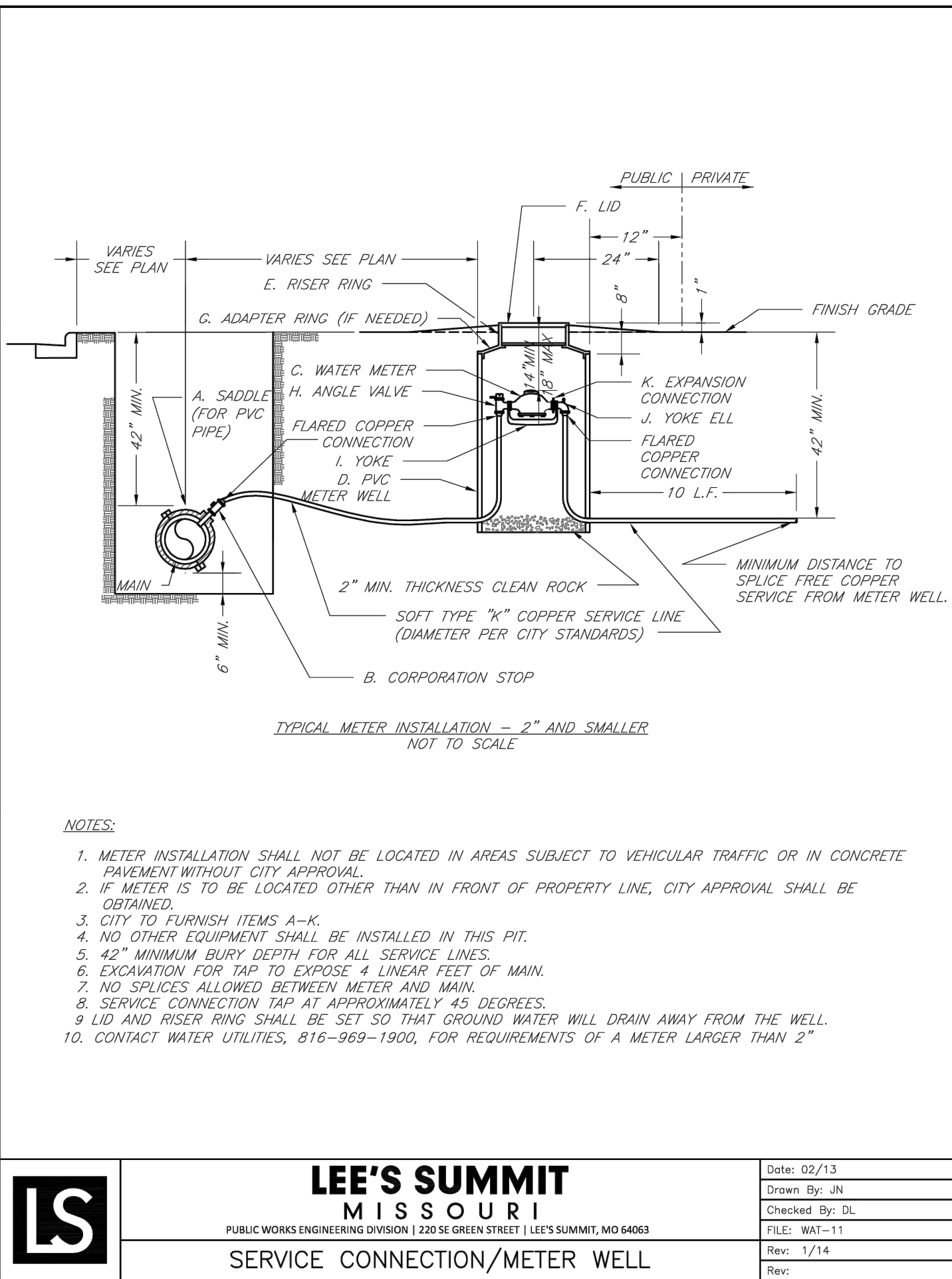


SIDEWALK ADJACENT TO EX. STORM STRUCTURE

SCALE: N.T.S.

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Lee's Summit, Missouri
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Olathe, Kansas 66061
(913) 393-1155
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STANDARD DETAILS

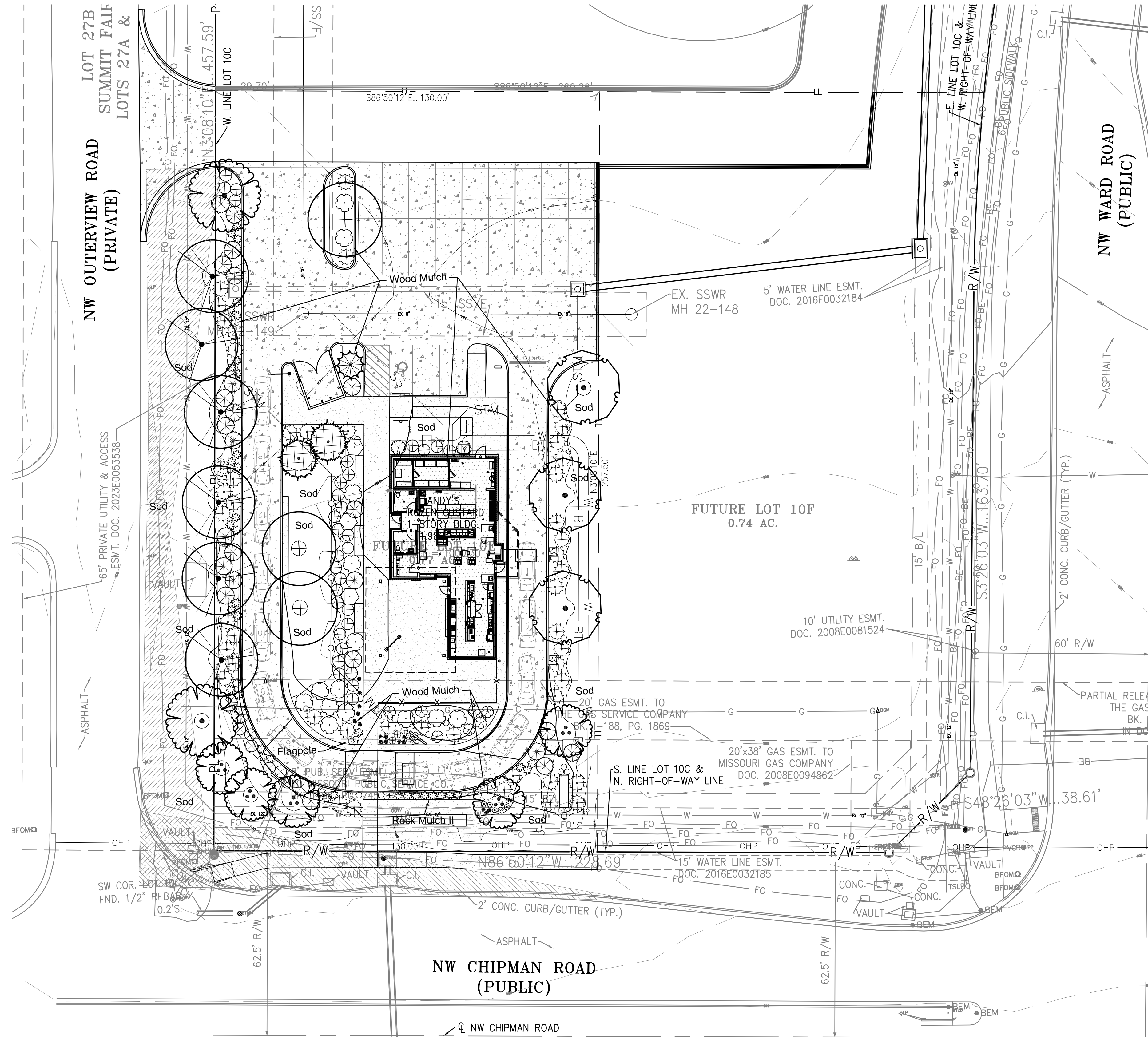
ANDY'S FROZEN CUSTARD

630 NW CHIPMAN ROAD

LEE'S SUMMIT, MISSOURI

SHEET

C7.6



LANDSCAPE REQUIREMENTS:		Required	Provided
Street Trees			
Chipman 130' 1 tree per 30'		4.3	4
1 Shrub per 20'		6.5	7
NW Outerview Rd. 232' 1 tree per 30'		7.73	8
1 Shrub per 20'		11.6	12
Open Yard Trees 1 per 5000sf.-bldg.		6.29	6+
Open Yard Shrubs 2 shrubs per 5000sf.- bldg.		12.58	13+
Area = 31,456 sf.			
Parking Lot Perimeter Along Street Solid Screen to 2 1/2', 12 plants per 40'		40	40+
Only ornamental trees and shrubs may be placed within utility easements.			

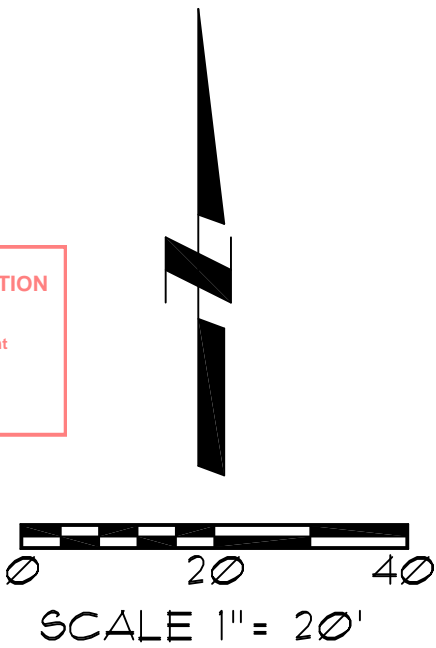
Utility Note:
Utilities shown on plan are diagrammatic and some may be missing. Before starting any construction call appropriate locating service. In Missouri call 1-800-DIG-RITE (344-7483) to have utilities located.

PLANT SCHEDULE

SYMBOL	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE
TREES					
	3	Gleditsia triacanthos 'Skyline' / 'Skyline' Honey Locust Seedless	B & B	2.5"	Cal
	1	Juniperus virginiana 'Canaertii' / Canaerti Juniper	B & B		6' hgt.
	2	Juniperus virginiana 'Hillspire' / Hillspire Juniper	B & B		8' hgt.
	2	Nyssa sylvatica / Black Gum	B & B	2.5"	Cal
	5	Populus tremuloides 'Prairie Gold' / Prairie Gold Aspen 3 Stem Clump w/ 1@1.5" cal.	B & B	1.5"	Cal
	6	Quercus bicolor / Swamp White Oak	B & B	2.5"	Cal
	3	Quercus shumardii / Shumard Red Oak	B & B	2.5"	cal.
SHRUBS					
	27	Juniperus chinensis 'Sea Green' / Sea Green Juniper 24" hgt. & sp.	5 gal		
	49	Juniperus virginiana 'Grey Owl' / Grey Owl Juniper 30" sp.	5 gal		
	3	Nepeta x faassenii 'Walkers Low' / Walkers Low Catmint	1 gal		
	2	Physocarpus opulifolius 'Center Glow' / Center Glow Ninebark 24"-30" hgt. & sp.	3 gal		
	14	Rhus aromatica 'Gro-Low' / Gro-Low Fragrant Sumac 18"-24" sp.	3 gal		
	3	Rhus typhina 'Tiger Eyes' / Tiger Eyes Sumac 30" hgt. & sp.	5 gal		
	5	Sedum spectabile 'Autumn Fire' / Showy Stonecrop 15"-18" hgt. & sp.	1 gal		
	7	Spiraea x bumalda 'Anthony Waterer' / Anthony Waterer Spiraea 18"-24" hgt.	3 gal		
	37	Spiraea x bumalda 'Gold Flame' / Gold Flame Spirea 18"-24" hgt.	3 gal		
ANNUALS/PERENNIALS					
	16	Ceratostigma plumbaginoides 'Blue Plumbago' / Blue Plumbago	1 gal		
GRASSES					
	17	Calamagrostis acutiflora 'Karl Foerster' / Feather Reed Grass 24" hgt.	3 gal		
	39	Miscanthus sinensis 'Morning Light' / Eulalia Grass	3 gal		
	6	Pennisetum alopecuroides 'Hameln' / Hameln Dwarf Fountain Grass 15"-18" hgt. & sp.	1 gal		

NOTE:
Details and specifications to be provided
in construction documents.

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06/18/2024



Landscape Plan
Andy's Frozen Custard

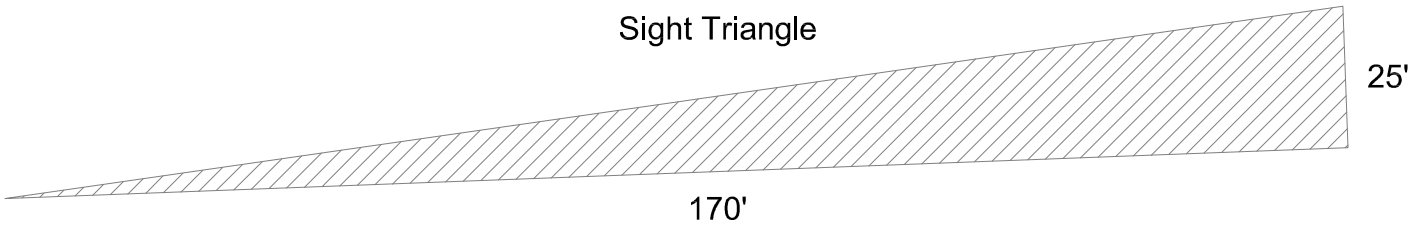
Overview Road and NW Chipman Road
Lee's Summit, Missouri

LS-1



Oppermann LandDesign, LLC
Land Planning Landscape Architecture
22 Debra Lane
New Windsor, New York 12553
peteoppermann56@gmail.com
913.592.5598

05/13/2024



PLAN KEYNOTES

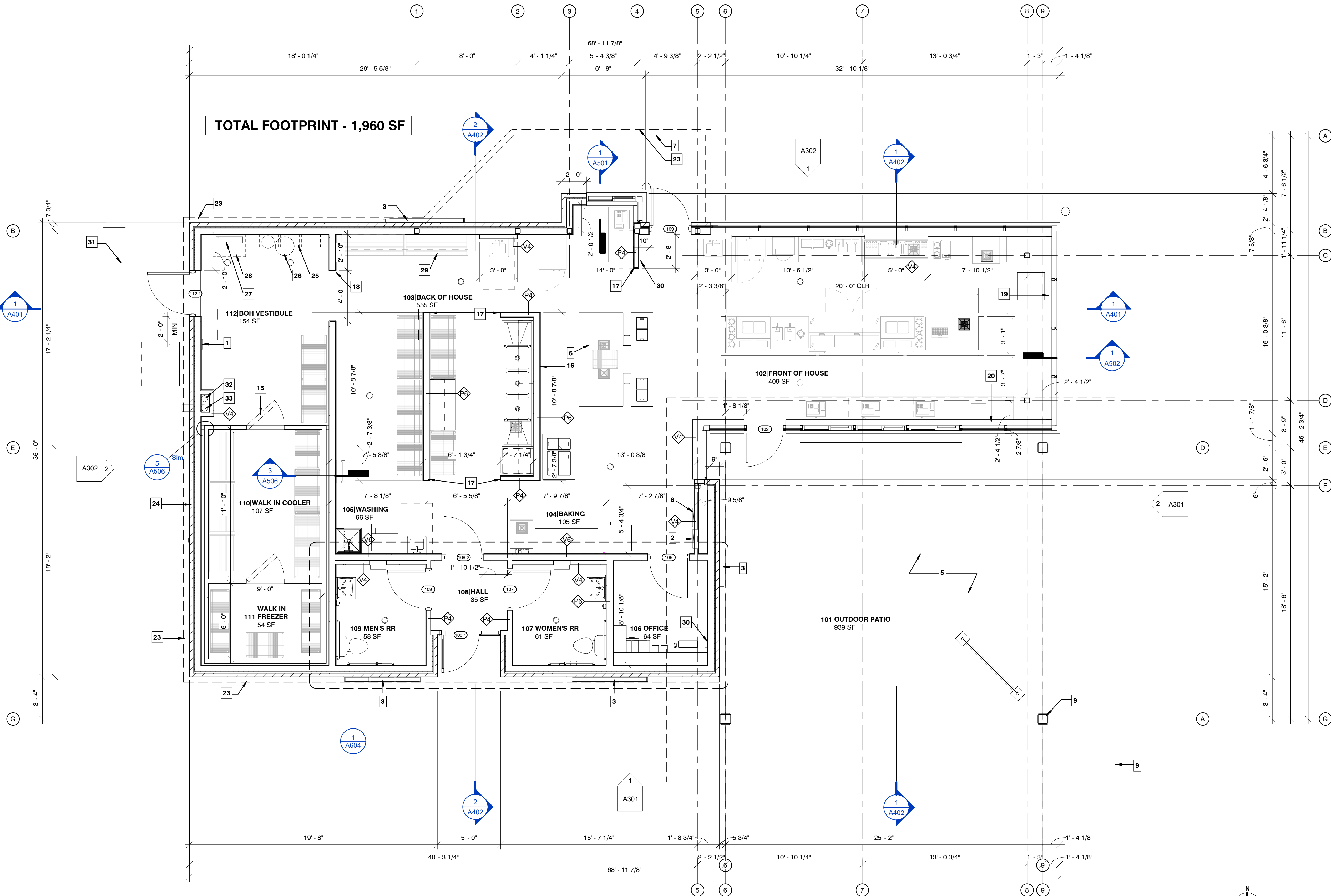
- FIRE EXTINGUISHER CABINET, RE: A507
- PANEL BOARD(S), RE: ELEC. DWGS
- BUILDING SIGNAGE, RE: ELEC. DWGS
- OUTDOOR PATIO, CONCRETE SLAB W/ SEALER
- PATIO CANOPY AND STRUCTURE, RE: STRUCT DWGS.
- STEEL COLUMNS, PTD
- DRIVE-THRU CANOPY, RE: STRUCT DWGS
- CUSTARD MACHINE SHUT-OFF SWITCH, RE: MEP DWGS
- CUSTARD MACHINE TO STRADDLE FLOOR SINKS
- WALK-IN COOLER/FREEZER, COORDINATE WITH SUPPLIER
- PROVIDE HOT AND COLD WATER HOSE BIB ON WALL BEHIND AND ADJACENT TO CUSTARD MACHINES, RE: MEP DWGS
- INSTALL STAINLESS STEEL CORNER GUARDS THROUGHOUT, TYP: ALL EXPOSED CORNERS RE: A507
- CASED OPENING FOR BOH ACCESS. MAINTAIN A MIN OF 10" CLEAR OF OPENING.
- ANDY'S FROZEN CUSTARD NEON CONE SIGN - LOCATED INSIDE STORE IN FRONT OF STOREFRONT GLAZING, SUSPENDED. CONSEAL POWER SUPPLY ALONG INSIDE FACE OF MULLION.
- ANDY'S FROZEN CUSTARD 'SPEECHER ROOT BEER' NEON SIGN - LOCATED INSIDE STORE IN FRONT OF STOREFRONT GLAZING, SUSPENDED. CONSEAL POWER SUPPLY ALONG INSIDE FACE OF MULLION.
- SIGNAGE LIGHTING BAND, BY PINNACLE SIGN GROUP, RE: ELEC DWGS & SIGNAGE DWGS
- PRE-FINISHED DOWNSPOUT, TIE INTO BELOW GRADE STORM DRAINAGE SYSTEM, RE: MEP & CIVIL DWGS
- TANKLESS WATER HEATERS, RE: MEP DWGS
- WATER SOFTENER, RE: MEP DWGS
- BACK FLOW PREVENTOR, RE: MEP DWGS
- PRESSURE WASHER, RE: MEP DWGS
- WALL SHELVES ABOVE DUNNAGE RACKS
- IPAD HOLDER
- SCREENING MASONRY WALL, M-1
- ROOF DRAIN DOWN TO BELOW GRADE, RE: PLUMB, PROVIDE CLEAN-OUT AT WALL WITH STAINLESS STEEL WALL COVER
- OVERFLOW ROOF DRAIN, STUB-OUT AT 12" AFF WITH OVERFLOW DRAIN NOZZLE, RE: PLUMB

- NOTE:**
1. CONTRACTOR TO VERIFY ALL DIMENSIONS AND LOCATIONS OF EXISTING STRUCTURE, MECHANICAL, ELECTRICAL, PLUMBING, ETC. AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
2. DIMENSIONS ARE FROM GRIDLINES TO FINISH FACE OF NEW PARTITIONS, U.O.N.
3. REFER TO A701 FOR ADDITIONAL NOTES PERTAINING TO WALL TYPE CONSTRUCTION AND DETAILING.
4. REFER TO EQUIPMENT PLAN FOR ALL EQUIPMENT.
5. REFER TO WALL SECTIONS FOR EXTERIOR WALL CONSTRUCTION.
6. REFERENCE CIVIL SITE PLAN FOR BUILDING LOCATION AND ORIENTATION ON SITE.

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06/18/2024



1 FLOOR PLAN
1/4" = 1'-0"



SOUTH ELEVATION



EAST ELEVATION

EXTERIOR FINISH SCHEDULE

#	DESCRIPTION
AS-1	DRIVE-THRU CANOPY MATERIAL: LONGBOARD 6" V-GROOVE EXTRUDED ALUM SOFFIT PANELS COLOR: CHILI PEPPER
AS-2	PATIO CANOPY MATERIAL: LONGBOARD 6" V-GROOVE EXTRUDED ALUM SOFFIT PANELS COLOR: BONE WHITE
C-1	COPING/ROOF EDGE TYPE 1: PRE-FINISHED ALUMINUM CAP AND SILL FLASHING AT MASONRY VENEER AND, TYP. COLOR: MATCH MASONRY COLOR
C-2	COPING/ROOF EDGE TYPE 2: ANNOZIZED ALUMINUM CAP AND SILL FLASHING AT STOREFRONT, TYP. COLOR: MATCH STOREFRONT FRAMING
GL-1	GLAZING TYPE 1: STOREFRONT MINFR: KAWNEER 451T COLOR: CLEAR ANODIZED
M-1	MASONRY TYPE 1: MODULAR BRICK GLEN GERY COLOR: EBONITE VELOUR GROUT: TO MATCH BRICK
N-1	PERIMETER FASCIA & SHIELDED LED LIGHTING: BY PINNACLE SIGN GROUP ANODIZED ALUM. FASCIA W/ LED LIGHTING

Hufft

PROJECT INFORMATION:
Andy's Frozen Custard #204

700 NW Ward Road
Lee's Summit, Missouri 64086
OWNER:
ANDY'S FROZEN CUSTARD
211 E. Water Street
Springfield, MO 65806
www.eatandys.com

ARCHITECT:
HUFFT
3612 Karnes Boulevard
Kansas City, MO 64111
P: 816-531-9200
www.hufft.com

STRUCTURAL:

CIVIL:

MEP:

LANDSCAPE ARCHITECT:

ISSUE:

CONSTRUCTION DOCUMENTS
05/01/2024

REVISION SCHEDULE:

NO. DATE ISSUE

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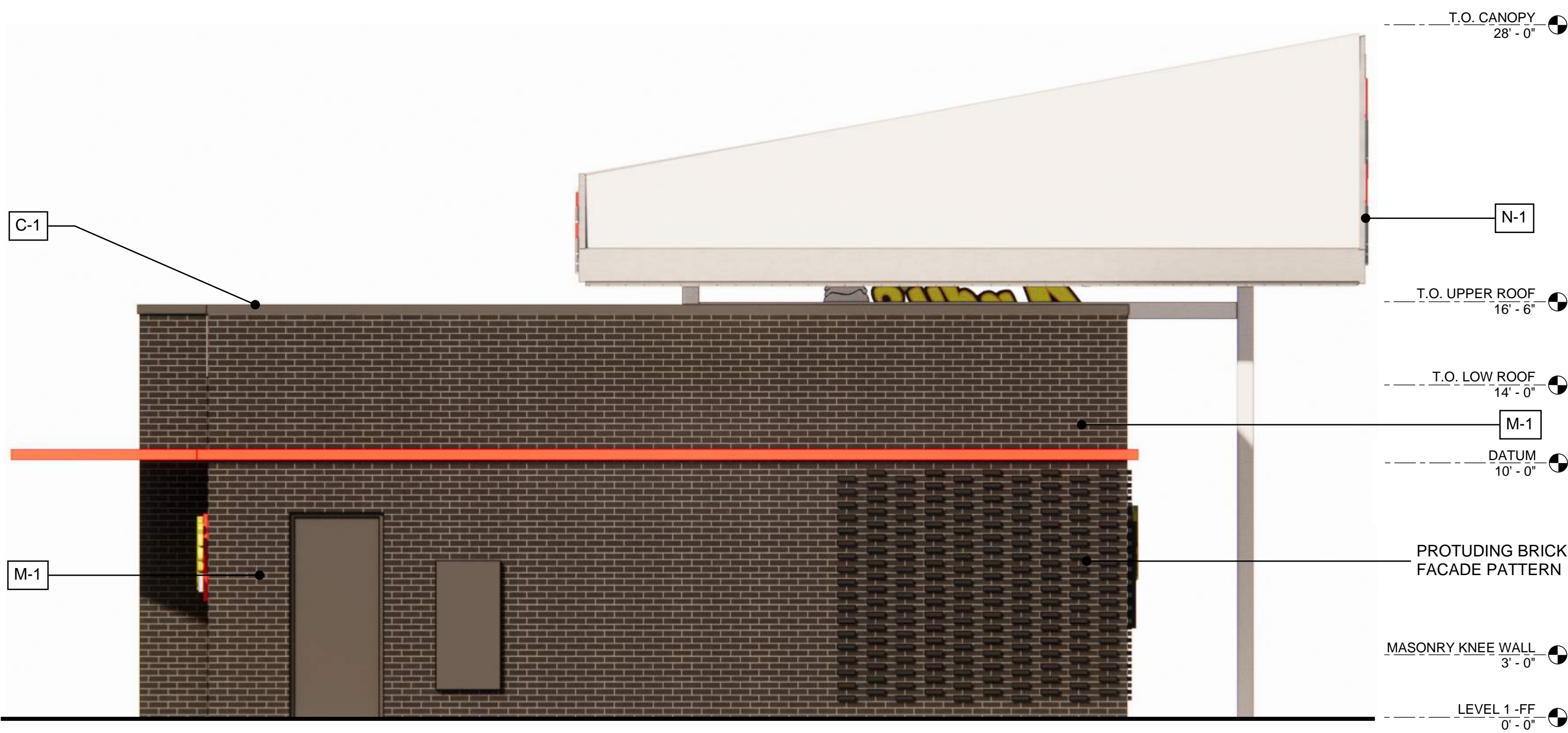
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Architect:
License Number:
Drawn By:
Project Number:

ELEVATIONS

RELEASED FOR CONSTRUCTION
Development Services Department
Lee's Summit, Missouri
06/18/2024

A301



NORTH ELEVATION



WEST ELEVATION

EXTERIOR FINISH SCHEDULE

#	DESCRIPTION
AS-1	DRIVE-THRU CANOPY MATERIAL: LONGBOARD 6" V-GROOVE EXTRUDED ALUM SOFFIT PANELS COLOR: GHILI PEPPER
AS-2	PATIO CANOPY MATERIAL: LONGBOARD 6" V-GROOVE EXTRUDED ALUM SOFFIT PANELS COLOR: BONE WHITE
C-1	COPING/ROOF EDGE TYPE 1: PRE-FINISHED ALUMINUM CAP AND SILL FLASHING AT MASONRY VENEER AND, TYP. COLOR: MATCH MASONRY COLOR
C-2	COPING/ROOF EDGE TYPE 2: ANNOIDIZED ALUMINUM CAP AND SILL FLASHING AT STOREFRONT, TYP. COLOR: MATCH STOREFRONT FRAMING
GL-1	GLAZING TYPE 1: STOREFRONT MINFR: KAWNEER 451T COLOR: CLEAR ANODIZED
M-1	MASONRY TYPE 1: MODULAR BRICK GLEN GERY COLOR: EBONITE VELOUR GROUT: TO MATCH BRICK
N-1	PERIMETER FASCIA & SHIELDED LED LIGHTING: BY PINNACLE SIGN GROUP ANODIZED ALUM. FASCIA W/ LED LIGHTING

Hufft

PROJECT INFORMATION:

Andy's Frozen Custard #204

700 NW Ward Road
Lee's Summit, Missouri 64086

OWNER:

ANDY'S FROZEN CUSTARD

211 E. Water Street
Springfield, MO 65806

www.eatandys.com

ARCHITECT:

HUFFT

3612 Kansas Boulevard
Kansas City, MO 64111
P: 816-531-0200

www.hufft.com

STRUCTURAL:

CIVIL:

MEP:

LANDSCAPE ARCHITECT:

ISSUE:

CONSTRUCTION DOCUMENTS

05/01/2024

REVISION SCHEDULE:

NO. DATE ISSUE

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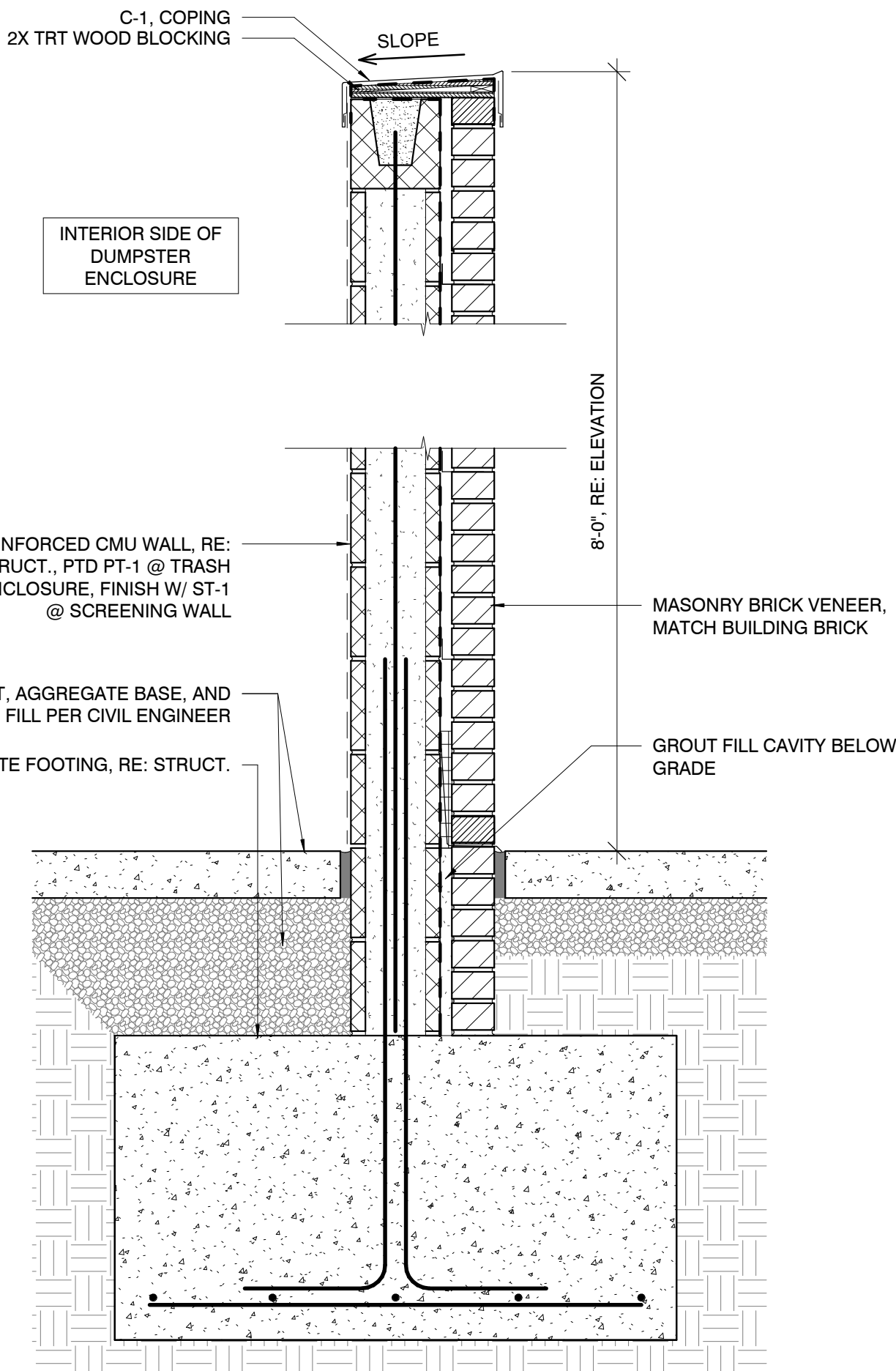
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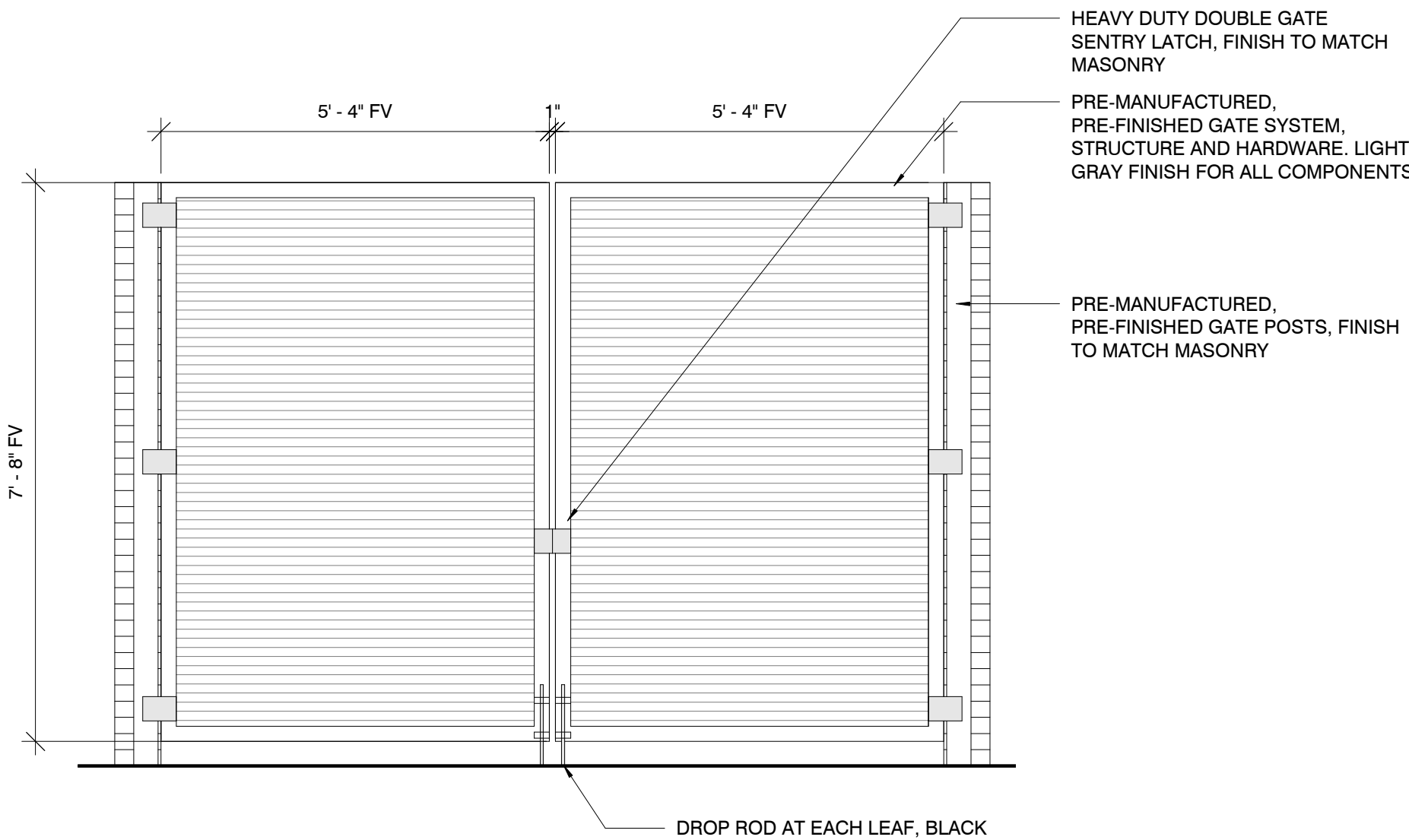
ELEVATIONS

RELEASED FOR CONSTRUCTION
As Noted on Plan Review
Development Services Department
Lee's Summit, Missouri
06/18/2024

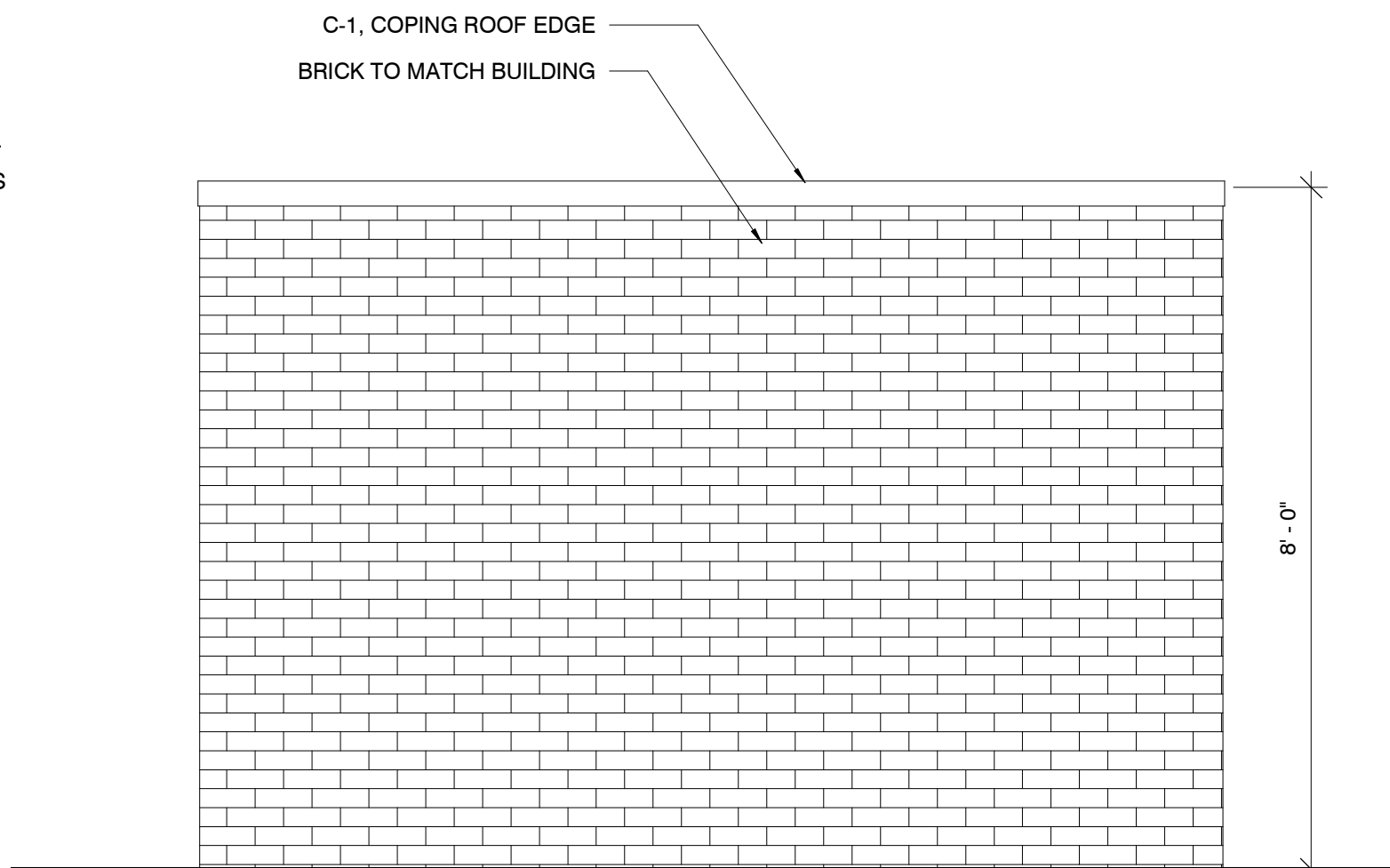
A302



4 DUMPSTER ENCLOSURE - SECTION
1" = 1'-0"

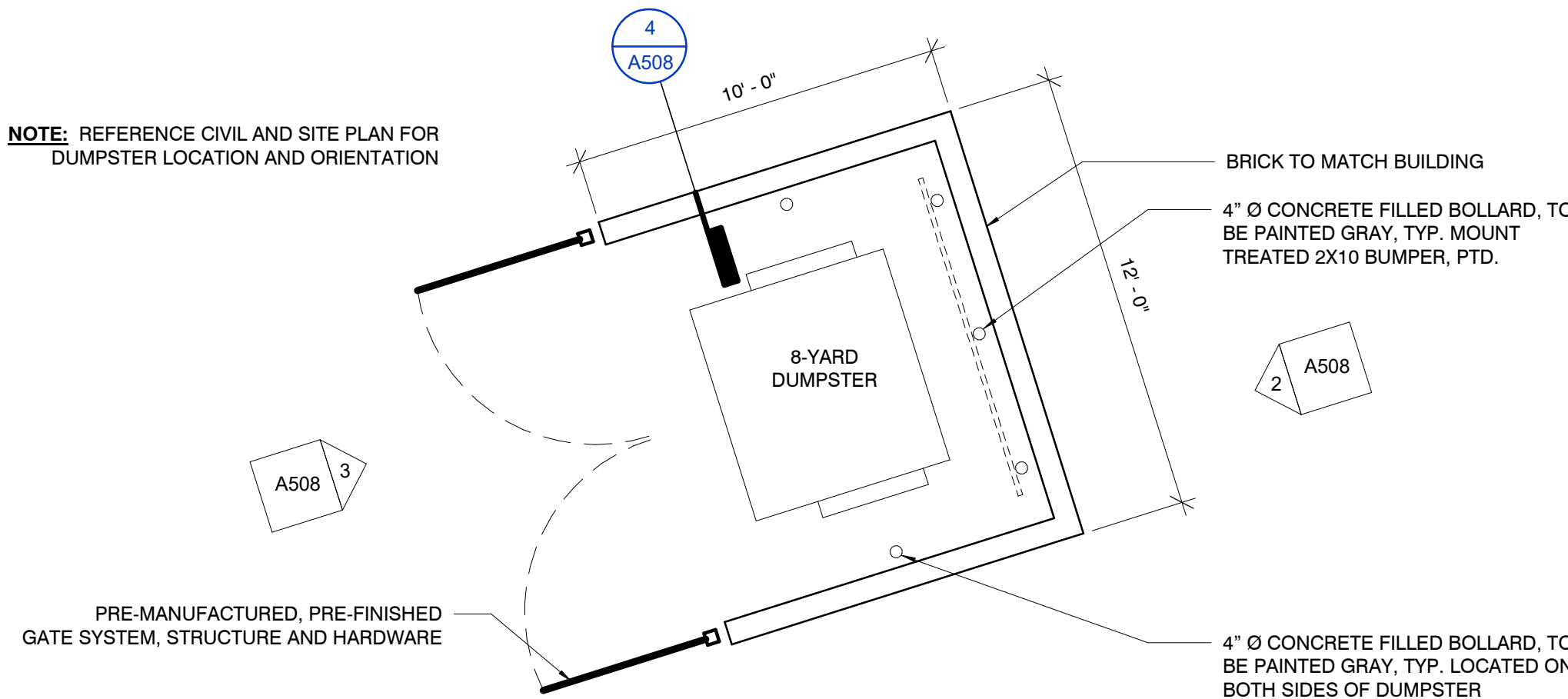


3 ELEVATION - DUMPSTER GATE
1/2" = 1'-0"



2 TYP. ELEVATION - DUMPSTER ENCLOSURE
1/2" = 1'-0"

NOTE: REFERENCE CIVIL AND SITE PLAN FOR
DUMPSTER LOCATION AND ORIENTATION



1 ENLARGED PLAN - DUMPSTER ENCLOSURE
1/4" = 1'-0"