

LEE'S SUMMIT FIRE STATION NO. 4

5031 NORTHEAST LAKEWOOD WAY

LEE'S SUMMIT, MISSOURI

PRELIMINARY DEVELOPMENT PLAN

CONSULTANT:



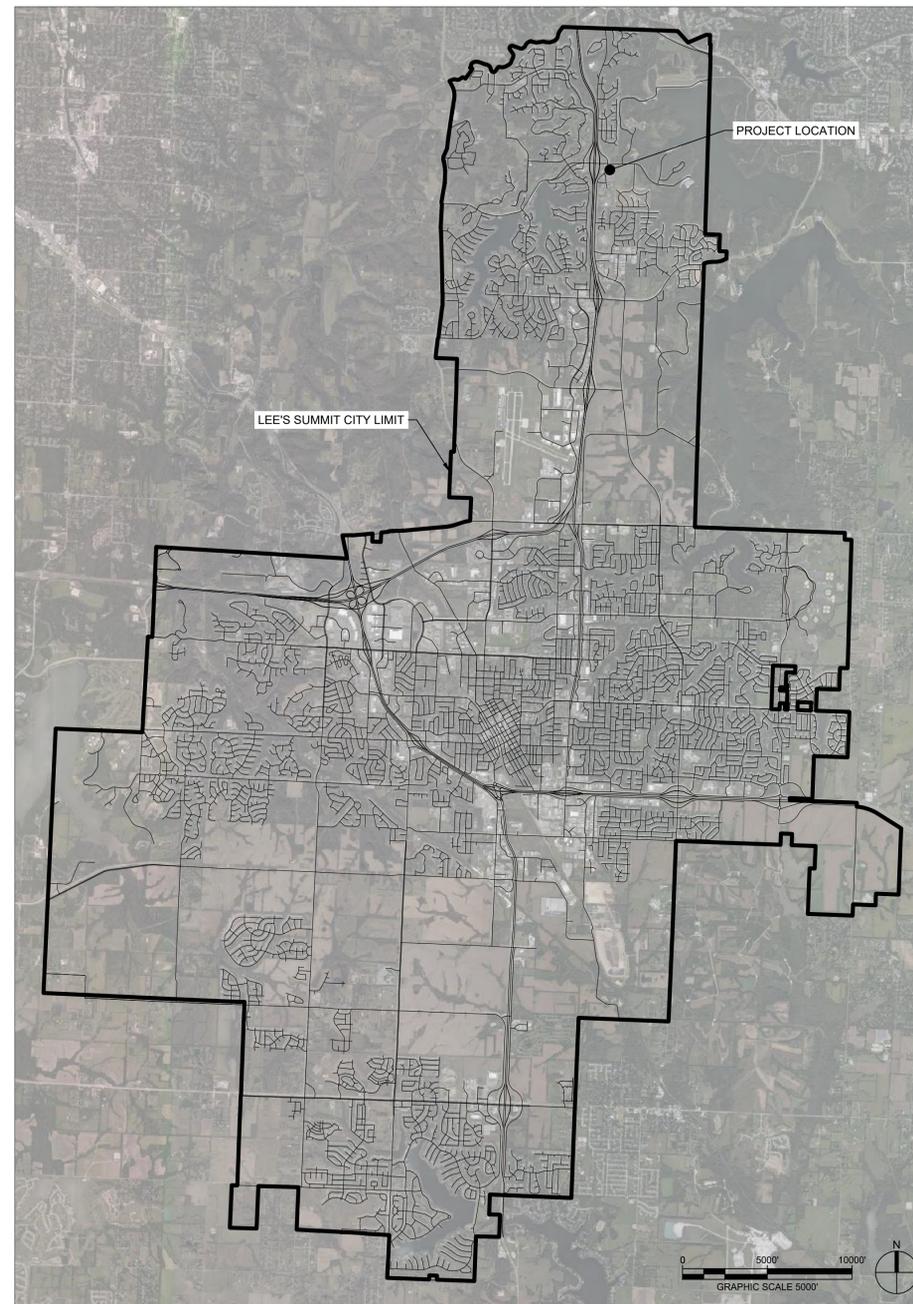
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PARCEL INFORMATION:

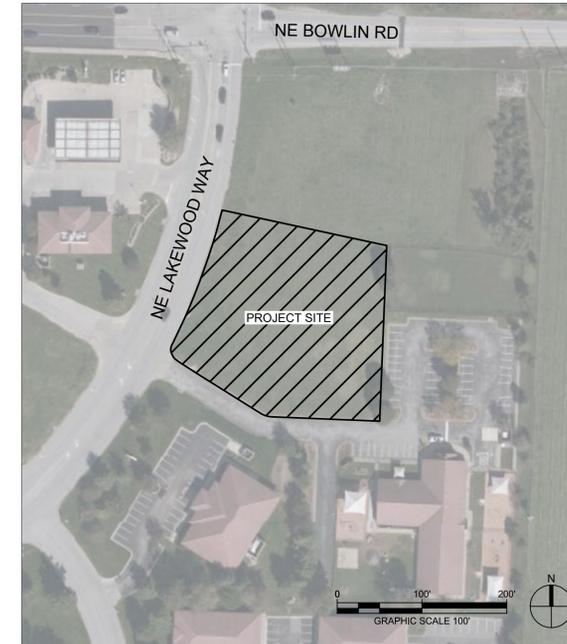
ACREAGE: 1.17
ADDRESS: 5031 NORTHEAST LAKEWOOD WAY
LEE'S SUMMIT, MO 64064
LEGAL DESCRIPTION: ALL OF LOT 6-A, EXECUTIVE LAKES CENTER LOTS 6-A AND 8-B, A SUBDIVISION IN THE SE 1/4 OF SECTION 5- T 48 N - R 31 W, LEE'S SUMMIT, JACKSON COUNTY, MISSOURI
FEMA FLOODPLAIN: THE SUBJECT PROPERTY IS LOCATED IN ZONE X. AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, AS SHOWN ON FLOOD INSURANCE RATE MAP (FIRM) 29095C0313G, EFFECTIVE JANUARY 20, 2017.
ZONING: CP-2, PLANNED COMMUNITY COMMERCIAL

LAND USE SCHEDULE	
TOTAL FLOOR AREA	12,189 SF
NUMBER OF DWELLING UNITS	8
LAND AREA	1.17 ACRES
REQUIRED PARKING	DIRECTED BY FIRE CHIEF
PROPOSED PARKING	15 SPACES
IMPERVIOUS COVERAGE	32,464 SF (.75 ACRES)
FLOOR AREA RATIO (FAR)	0.24
PERMITTED LAND USE	FIRE STATION - MUNICIPAL = CONDITIONAL
DWELLING UNITS PER ACRE WITH COMMON AREA	6.84
DWELLING UNITS PER ACRE WITHOUT COMMON AREA	6.84

VICINITY MAP



SITE LOCATION MAP



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REFERENCES:

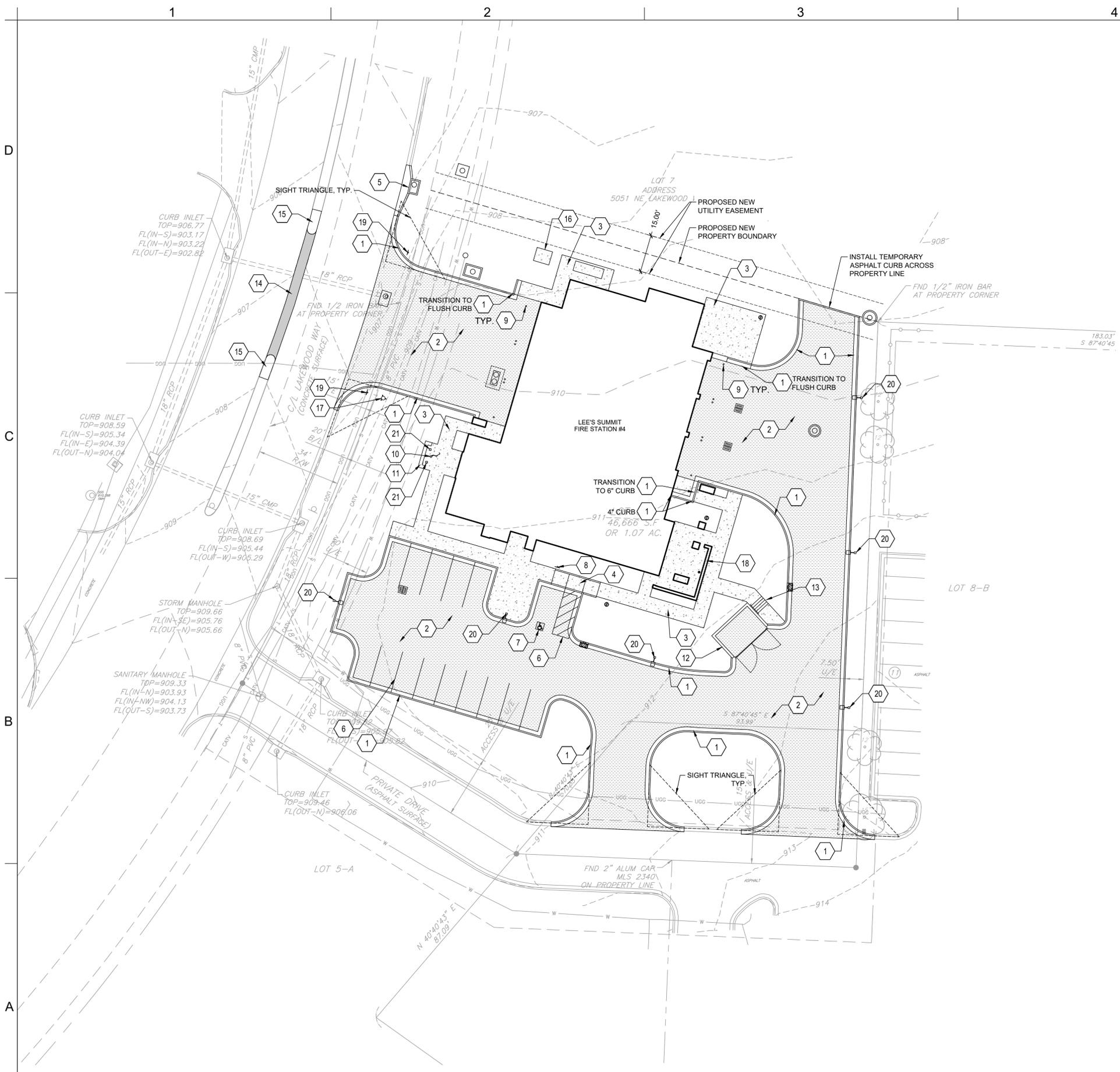
BOUNDARY AND TOPOGRAPHIC SURVEY: J&J SURVEY, LLC

REVISIONS:

#	Description	Date
NOT FOR CONSTRUCTION		

PROJECT NO: 18225R21001
DATE: 01.20.2022

COVER SHEET
C-001



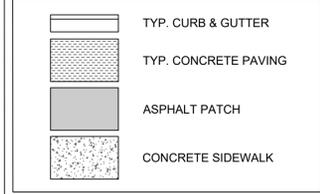
SITE NOTES

1. PRIOR TO STARTING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE TO MAKE SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING AUTHORITY.
3. CONTRACTOR SHALL CONTACT DIG SAFE PRIOR TO ANY EXCAVATION/DIGGING.
4. ALL EXISTING CONDITIONS, DIMENSIONS, AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IF ANY DISCREPANCIES EXIST. PRIOR TO PROCEEDING WITH CONSTRUCTION, FOR NECESSARY PLAN OR GRADE CHANGES, NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
5. CONTRACTOR SHALL REPAIR ALL DISTURBED LANDSCAPING.
6. COORDINATE IRRIGATION SLEEVE INSTALLATION WITH THE PAVING CONTRACTOR.

KEYNOTES

- 1 TYP. CURB & GUTTER
LEE'S SUMMIT STANDARD DETAIL
REF: 3/C502
- 2 TYP. CONCRETE PAVING
REF: 1/C500
- 3 CONCRETE SIDEWALK PAVING
REF: 2/C500
- 4 ADA SIDEWALK RAMP.
REF: 4/C503
- 5 CURB INLET
REF: 1/C530
- 6 PAVEMENT STRIPING
REF: 5/C500
- 7 ADA PAVEMENT MARKING
REF: 6/C500
- 8 ADA PARKING SIGN
REF: 7/C500
- 9 TYP. SAFETY BOLLARD
REF: 4/C500
- 10 FLAG POLE
REF: 9/C500
- 11 MONUMENT SIGN
REF: 10/C500
- 12 DUMPSTER ENCLOSURE
REF: 1/C501
- 13 CONCRETE STEPS WITH RAILING
REF: 14/C500
- 14 ROADWAY ASPHALT PATCH
LEE'S SUMMIT STANDARD DETAIL
REF: 2/C503
- 15 MEDIAN TRANSITION
LEE'S SUMMIT STANDARD DETAIL
REF: 3/C503
- 16 TRANSFORMER CONCRETE PAD
REF: MEP
- 17 RELOCATED FIRE HYDRANT
REF: 5/C520
- 18 SCREEN WALL
REF: ARCH
- 19 DO NOT ENTER SIGN
REF: 8/C500
- 20 TYP. AREA LIGHTING
REF: ELECTRICAL
- 21 TYP. FLAG POLE LIGHTING
REF: ELECTRICAL

LEGEND



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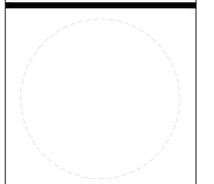
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CITY OF LEE'S SUMMIT

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LEE'S SUMMIT, MISSOURI 64064

100% DESIGN DEVELOPMENT DRAWINGS

#	Description	Date

NOT FOR CONSTRUCTION



ANGIE MORGAN - CIVIL ENGINEER
MO# PE-2018031541

PROJECT NO: 18225R21001
DATE: 01.20.2022
DRAWN BY: KDW
CHKD BY: ALM

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SITE PLAN

C-100

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1 SITE PLAN
1" = 20'-0"



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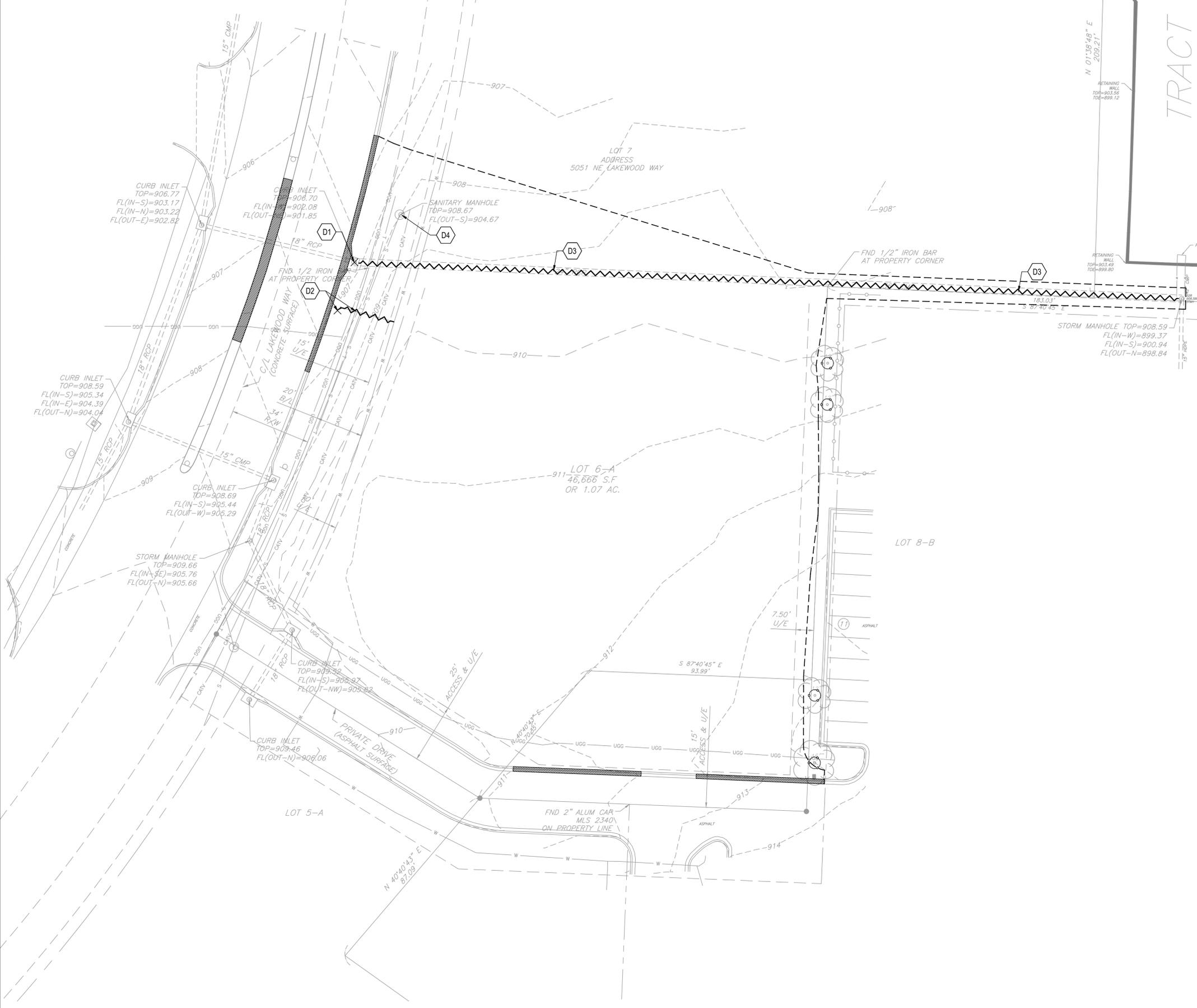
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DEMOLITION NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL (IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES) ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE, STRUCTURES, UTILITIES, UNDERGROUND STORAGE TANKS, 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. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
4. EXISTING PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK. UTILITIES DETERMINED TO BE ABANDONED AND LEFT IN PLACE SHALL BE GROUDED IF UNDER BUILDING.
5. ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY AS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN THE ANY ROAD RIGHT OF WAY DURING CONSTRUCTION.
6. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC., (AND OTHER APPROPRIATE BMP'S) AS APPROVED BY CONSTRUCTION MANAGER.
7. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR THE SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF THE EXISTING FACILITIES.
8. CONTRACTOR TO CLEAR SITE TO EXTENTS NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS.
9. CONTRACTOR SHALL REMOVE ALL TREES AND SHRUBS WITHIN PROPERTY BOUNDARY LIMITS NOT INDICATED AS PROTECTED OR TO REMAIN.
10. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS 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.
11. CONTRACTOR TO CLEAR SITE TO EXTENTS NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS.
12. CONTRACTOR SHALL REMOVE ALL TREES AND SHRUBS WITHIN PROPERTY BOUNDARY LIMITS NOT INDICATED AS PROTECTED OR TO REMAIN.

KEYNOTES

- D1 REMOVE CURB INLET, CONVERT TO JUNCTION BOX
REF: C-104 - GRADING & DRAINAGE PLAN
- D2 RELOCATE FIRE HYDRANT.
REF: C-105 - UTILITY PLAN
- D3 REMOVE AND RELOCATE STORMWATER PIPE
REF: C-104 - GRADING & DRAINAGE PLAN
- D4 REMOVE MANHOLE FOR SANITARY SEWER LINE EXTENSION FOR LOT 7
REF: C-105 - UTILITY PLAN

LEGEND

- PAVEMENT TO BE REMOVED
- TREE TO BE PROTECTED
- SITE FEATURE TO BE REMOVED
- APPROXIMATE LIMITS OF DEMOLITION

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100% DESIGN DEVELOPMENT DRAWINGS

REVISIONS:

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DATE:	01.20.2022
DRAWN BY:	KDW
CHKD BY:	ALM

DEMOLITION PLAN

C-102

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1 DEMOLITION PLAN
1" = 20'-0"



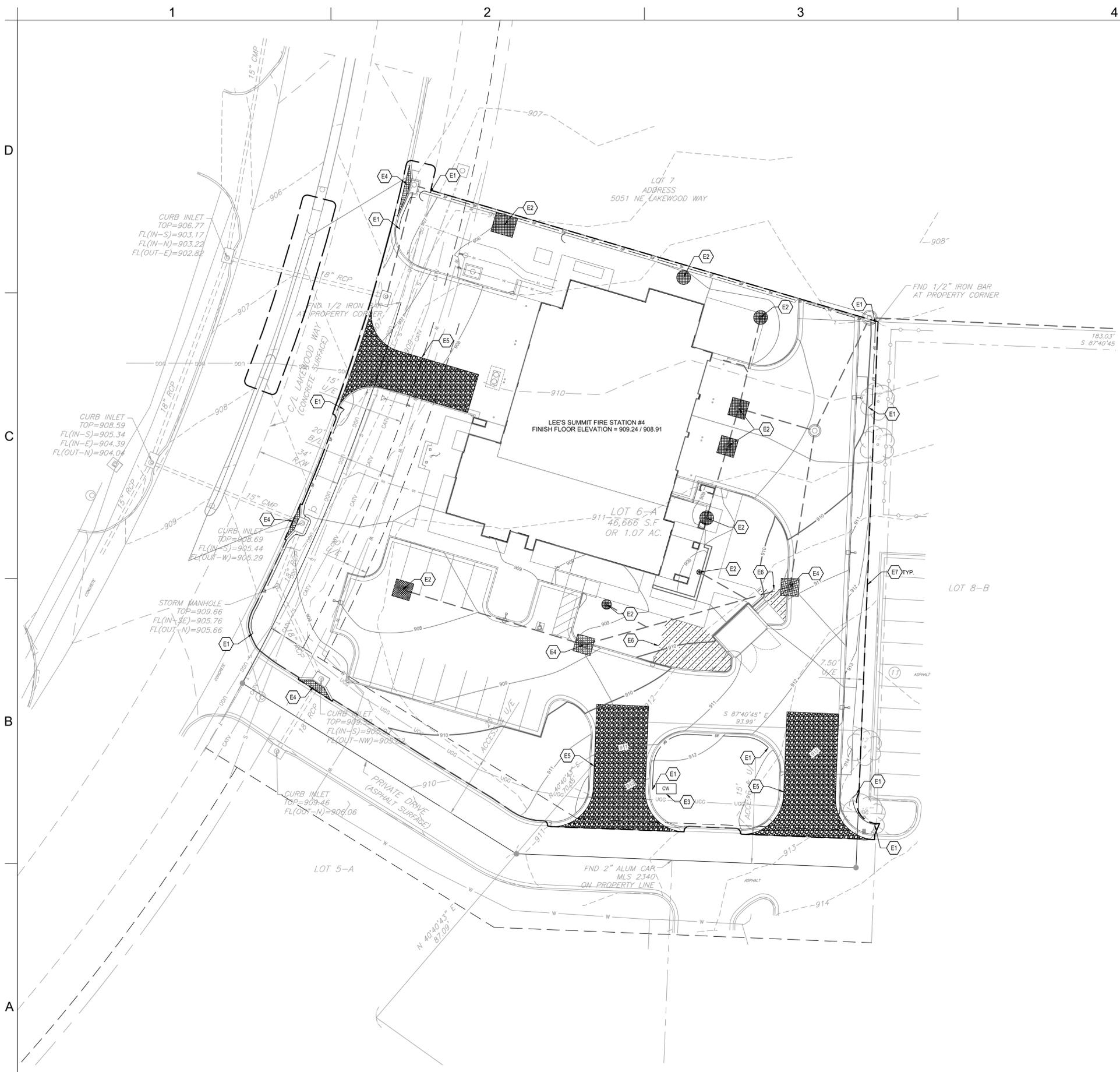
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GENERAL EROSION AND SEDIMENT CONTROL NOTES:

THIS SHEET OUTLINES MINIMUM STORMWATER PRACTICES TO BE FOLLOWED BY THE CONTRACTOR DURING ALL PHASES OF CONSTRUCTION OF THE PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE FOR PREVENTION OF SOIL OR SEDIMENT LOSS FROM THE CONSTRUCTION SITE. THE CONTRACTOR SHALL SUBMIT A SITE-SPECIFIC SEDIMENT AND EROSION CONTROL SCHEDULE. THESE NOTES ARE TO BE USED AS A GUIDELINE ONLY. THE PROJECT IS NOT CONSIDERED COMPLETE UNTIL ALL PERMANENT EROSION AND SEDIMENT CONTROLS AND STORMWATER MANAGEMENT PRACTICES ARE IN PLACE TO THE SATISFACTION OF THE OWNER AND ENGINEER. ALL TEMPORARY PRACTICES MUST BE PROPERLY REMOVED.

IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS PURSUANT TO THE GENERAL NPDES PERMIT FOR CONSTRUCTION STORMWATER, A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN DEVELOPED FOR THIS SITE. THE PLAN WAS DEVELOPED TO MINIMIZE THE EFFECTS OF SOIL EROSION AND RESULTING SEDIMENT LOSS. PREVENTION WILL BE PROVIDED THROUGH THE USE OF PROPER CONSTRUCTION TECHNIQUES. THESE TECHNIQUES WILL INCLUDE BOTH TEMPORARY AND PERMANENT MANAGEMENT PRACTICES. TO PREVENT EROSION AND SEDIMENT FROM LEAVING THE CONSTRUCTION SITE THE FOLLOWING STEPS SHALL BE TAKEN DURING CONSTRUCTION:

- PRIOR TO STARTING ANY SOIL DISTURBING ACTIVITIES, THE CONTRACTOR SHALL INSTALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES AND GRAVEL CONSTRUCTION ENTRANCES.
- THE RECOMMENDED SEQUENCE OF CONSTRUCTION ACTIVITIES AND OF THE INSTALLATION AND REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES IS AS FOLLOWS:
 - INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCES
 - INSTALL TEMPORARY PERIMETER SILT FENCE
 - INSTALL TEMPORARY EXISTING CURB INLET PROTECTION
 - CONSTRUCT SITE IMPROVEMENTS
 - INSTALL PROTECTION FOR NEWLY INSTALLED CURB INLETS, AREA INLETS, AND JUNCTION BOXES
 - INSTALL EROSION AND SEDIMENT CONTROL BLANKETS
 - SEED, FERTILIZE, AND MULCH ALL SLOPES AND DISTURBED AREAS
 - REMOVE TEMPORARY PRACTICES, PERIMETER CONTROLS, AND SITE CLEANUP.
- EROSION AND SEDIMENT CONTROL DEVICES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE KANSAS CITY METRO CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION. INSTALL SILT FENCE AT INDICATED LOCATIONS AND OTHER LOCATIONS AS DIRECTED BY THE ENGINEER TO CONTROL SOIL EROSION. SILT FENCE SHALL BE KEPT IN PLACE UNTIL THE PROJECT IS STABILIZED.
- CONSTRUCTION ENTRANCE SHALL BE MAINTAINED BY THE CONTRACTOR IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS AND PAVED STREETS. THIS MAY INCLUDE PERIODIC TOP DRESSING WITH ADDITIONAL CRUSHED STONE AS CONDITIONS WARRANT. REPAIR OF ENTRANCE(S) AND CLEANING OF RIGHT-OF-WAYS AND PAVED STREETS THAT HAVE BEEN SOILED BY CONSTRUCTION ACTIVITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- DURING ALL SOIL DISTURBING ACTIVITIES, THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS USING ACCEPTED CONSTRUCTION METHODS TO MINIMIZE THE TIME OF EXPOSURE OF UNPROTECTED SOIL AND OTHER CONSTRUCTION MATERIALS TO RAINFALL. PARTICULAR CARE MUST BE EXERCISED WHEN DEALING WITH STOCKPILES OF TOPSOIL OR FILL MATERIALS AND WITH SOIL ON SLOPES.
- SOIL STOCKPILED FOR MORE THAN 7 DAYS WILL HAVE SILT FENCE PLACED ON THE DOWNHILL SIDE TO TRAP SEDIMENT.
- NO GROUND SHALL BE LEFT DISTURBED FOR MORE THAN 14 DAYS OF NON-ACTIVITY WITHOUT BEING TEMPORARILY MULCHED AND/OR SEEDED.
- EROSION CONTROLS SHALL BE INSPECTED AND MAINTAINED BY THE CONTRACTOR NOT LESS THAN WEEKLY AND WITHIN 24 HOURS AFTER A RAINFALL EVENT OF 0.5 INCHES OR MORE. MAINTENANCE SHALL INCLUDE BUT NOT BE LIMITED TO SEDIMENT REMOVAL AND SILT FENCE REPAIR AND/OR REPLACEMENT.
- WHENEVER DIRT, ROCK, OR OTHER MATERIALS ARE EXPORTED FOR PLACEMENT IN AREAS OFF THE PRIMARY CONSTRUCTION SITE, THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THAT ALL JURISDICTIONAL AUTHORITY REQUIREMENTS ARE MET. PRIOR TO THE REMOVAL OF ANY MATERIALS FROM THE SITE THE CONTRACTOR WILL FURNISH THE ENGINEER WITH A WRITTEN AGREEMENT, SIGNED BY EACH LANDOWNER WHO WILL RECEIVE EXPORTED MATERIALS, STATING THAT THE RECEIVING SITE WILL BE PROPERLY PERMITTED, WHEN REQUIRED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS AND EXPENSES OF PROVIDING EROSION AND SEDIMENT CONTROL MEASURES.
- CONTRACTOR SHALL KEEP A WRITTEN LOG OF WHEN CONSTRUCTION ACTIVITIES BEGIN, EROSION AND SEDIMENT CONTROLS ARE INSTALLED, INSPECTED, AND REPAIRED. COPIES OF LOG SHALL BE FURNISHED TO THE ENGINEER.
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED UPON STABILIZATION OF DISTURBED AREAS.

EROSION CONTROL KEYNOTES

- E1 SILT FENCE
REF: CS10
- E2 AREA INLET AND JUNCTION BOX PROTECTION
REF: CS11
- E3 CONCRETE WASHOUT
REF: CS10
- E4 CURB INLET PROTECTION
REF: CS10
- E5 CONSTRUCTION ENTRANCE
REF: CS10
- E6 TEMPORARY EROSION CONTROL BLANKET
REF: CS10
- E7 LIMITS OF DISTURBANCE

LEGEND

- LIMITS OF DISTURBANCE
- SF — SILT FENCE
- [Hatched Box] AREA INLET PROTECTION
- [Box with CW] CONCRETE WASHOUT
- [Wavy Line] CURB INLET PROTECTION
- [Cross-hatched Box] CONSTRUCTION ENTRANCE
- [Diagonal Line] TEMPORARY EROSION CONTROL BLANKET

1 EROSION CONTROL PLAN
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DATE: 01.20.2022
DRAWN BY: DMH
CHKD BY: ALM

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EROSION CONTROL PLAN

C-103

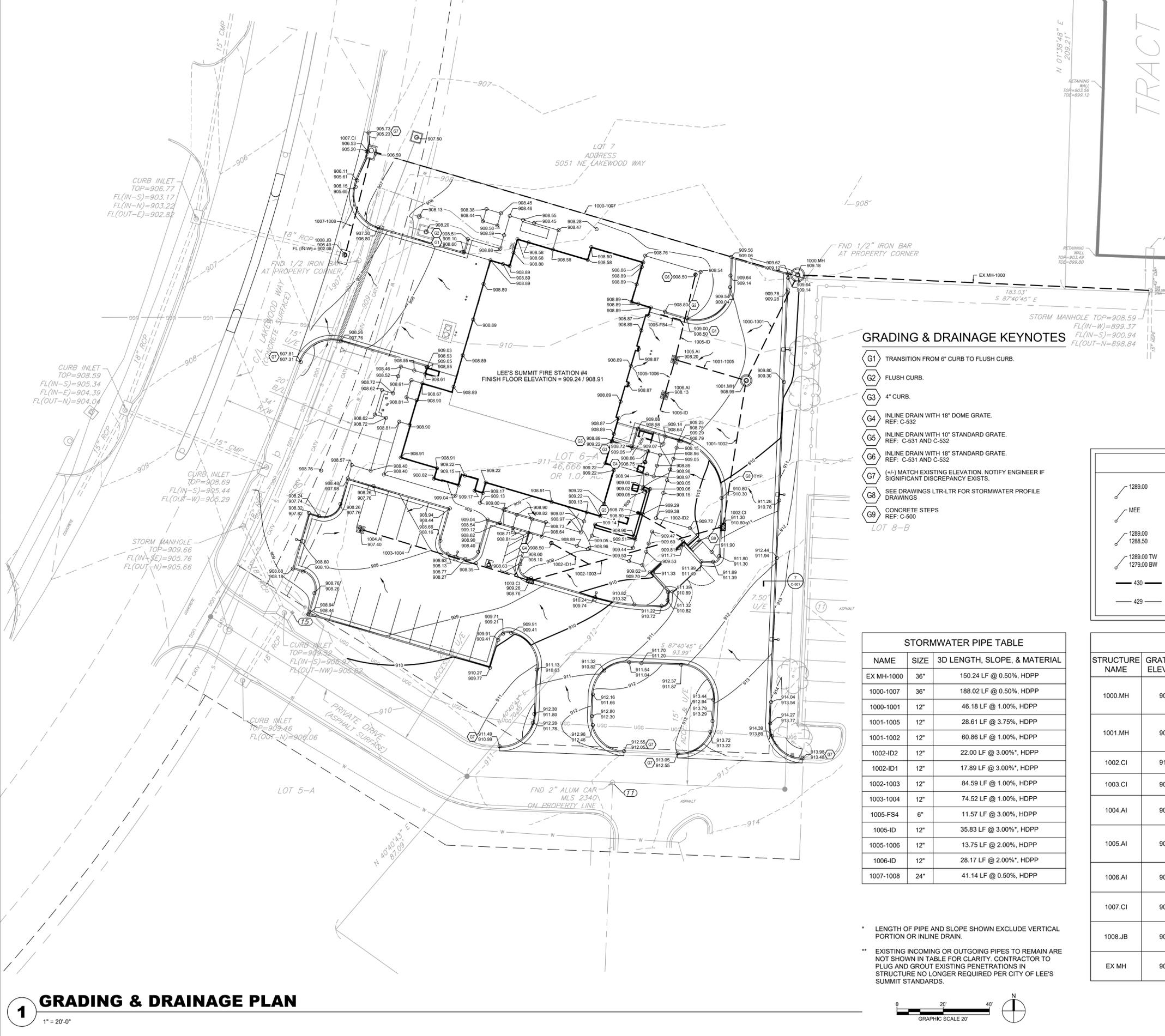
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GENERAL GRADING & DRAINAGE NOTES:

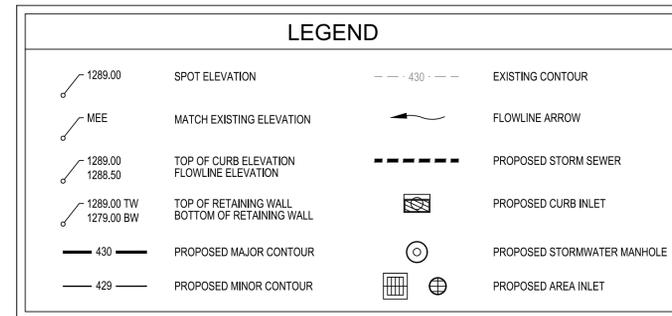
- CONTRACTOR SHALL OBTAIN A COPY OF THE GEOTECHNICAL REPORT BEFORE STARTING CONSTRUCTION.
- ALL PROPOSED CONTOUR LINES AND SPOT ELEVATIONS SHOWN ARE FINISH GROUND ELEVATIONS. CONTRACTOR SHALL ACCOUNT FOR PAVEMENT DEPTHS, BUILDING PADS, TOPSOIL, ETC. WHEN GRADING THE SITE.
- ALL DISTURBED AREAS THAT ARE NOT TO BE PAVED (GREEN SPACES) SHALL BE FINISH GRADED WITH A MINIMUM OF SIX INCHES OF TOPSOIL.
- ALL EXCAVATIONS AND EMBANKMENTS SHALL COMPLY WITH THE RECOMMENDATIONS PROVIDED BY THE GEOTECHNICAL ENGINEER.
- FINISHED GRADES SHALL NOT BE STEEPER THAN 3:1, UNLESS NOTED OTHERWISE ON THE PLANS.
- ALL SITE WORK FOR THIS PROJECT IS CONSIDERED "UNCLASSIFIED". THE TERM "UNCLASSIFIED" EXCAVATION SHALL BE DEFINED AS MEANING THE CONTRACTOR BEARS THE ENTIRE RISK OF THE SOIL QUANTITIES AND/OR TYPE (E.G. ROCK, CLAY, PEAT, SILT, SHALE, ETC.) ENCOUNTERED EITHER ABOVE OR BELOW PROPOSED SUBGRADES. IN THE EVENT IT BECOMES NECESSARY FOR UNSUITABLE SOIL TO BE HANDLED, REMOVED FROM THE SITE, OR FOR SUITABLE MATERIAL TO BE IMPORTED TO THE SITE, THE CONTRACTOR SHALL BEAR THE ENTIRE COST OF SUCH ADDITIONAL WORK. "UNSUITABLE" SOIL ALSO INCLUDES SATURATED SOILS THAT MAY NEED REPLACING AND/OR TREATING IN ORDER TO MEET SCHEDULE DATES. THIS DEFINITION OF "UNCLASSIFIED" SUPERCEDES ANY CONTRARY DEFINITIONS OR STATEMENTS WHICH MAY BE CONTAINED IN SPECIFICATIONS, PLANS, OR OTHER DOCUMENTS.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING ELEVATIONS OF CONNECTION POINTS AS SHOWN ON GRADING PLANS. NOTIFY ENGINEER IF DISCREPANCY EXISTS FOR DIRECTION.
- ALL GRADES SHALL BE CONTOURED SMOOTHLY WITH GENTLE ROUNDING/SHAPING OF ALL AFFECTED LAND SURFACES. ABRUPT TRANSITIONS AT THE TOP OF SLOPES WHERE PROPOSED GRADES MEET EXISTING ARE NOT ACCEPTABLE. GRADING SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO THE ADDITION OF THE TOPSOIL LAYER.

ADA NOTES

- ANY AND ALL NEW SITE "ADA" FEATURES SHALL BE BUILT IN COMPLIANCE TO CURRENT FEDERAL, STATE, AND LOCAL ACCESSIBILITY RULES AND REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO KNOW AND UNDERSTAND ALL CURRENT ACCESSIBILITY REGULATIONS AS THEY PERTAIN TO THE CONSTRUCTION OF ACCESSIBLE SITE FEATURES.
- ALL NEW CONCRETE SIDEWALK PAVEMENT SHALL BE INSTALLED WITH A MAXIMUM 5% RUNNING SLOPE AND A MAXIMUM 2% CROSS SLOPE.
- SURFACES OF ALL NEW CONCRETE PAVEMENT PATHWAYS SHALL BE SMOOTH AND EVEN WITH NO ABRUPT CHANGES IN ELEVATION OF 1/4" OR GREATER AS REQUIRED BY THE ACCESSIBILITY DESIGN REGULATIONS.

GRADING & DRAINAGE KEYNOTES

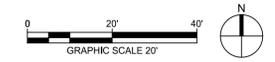
- G1 TRANSITION FROM 6" CURB TO FLUSH CURB.
- G2 FLUSH CURB.
- G3 4" CURB.
- G4 INLINE DRAIN WITH 18" DOME GRATE. REF: C-532
- G5 INLINE DRAIN WITH 10" STANDARD GRATE. REF: C-531 AND C-532
- G6 INLINE DRAIN WITH 18" STANDARD GRATE. REF: C-531 AND C-532
- G7 (+/-) MATCH EXISTING ELEVATION. NOTIFY ENGINEER IF SIGNIFICANT DISCREPANCY EXISTS.
- G8 SEE DRAWINGS LTR-LTR FOR STORMWATER PROFILE DRAWINGS
- G9 CONCRETE STEPS REF: C-500



NAME	SIZE	3D LENGTH, SLOPE, & MATERIAL
EX MH-1000	36"	150.24 LF @ 0.50%, HDPP
1000-1007	36"	188.02 LF @ 0.50%, HDPP
1000-1001	12"	46.18 LF @ 1.00%, HDPP
1001-1005	12"	28.61 LF @ 3.75%, HDPP
1001-1002	12"	60.86 LF @ 1.00%, HDPP
1002-ID2	12"	22.00 LF @ 3.00%, HDPP
1002-ID1	12"	17.89 LF @ 3.00%, HDPP
1002-1003	12"	84.59 LF @ 1.00%, HDPP
1003-1004	12"	74.52 LF @ 1.00%, HDPP
1005-FS4	6"	11.57 LF @ 3.00%, HDPP
1005-ID	12"	35.83 LF @ 3.00%, HDPP
1005-1006	12"	13.75 LF @ 2.00%, HDPP
1006-ID	12"	28.17 LF @ 2.00%, HDPP
1007-1008	24"	41.14 LF @ 0.50%, HDPP

STRUCTURE NAME	GRATE / RIM ELEVATION	PIPES IN	PIPES OUT	CL NORTHING & EASTING	NOTES
1000.MH	909.18	1000-1001, 12" INV IN =900.62 1000-1007, 36" INV IN =900.32	EX MH-1000, 36" INV OUT =900.12	N: 1032977.21 E: 2830365.11	STANDARD PRECAST MANHOLE REF: DETAIL 3/C-540
1001.MH	908.99	1001-1002, 12" INV IN =901.28 1001-1005, 12" INV IN =901.58	1000-1001, 12" INV OUT =901.08	N: 1032931.67 E: 2830342.87	STANDARD PRECAST MANHOLE REF: DETAIL 3/C-540
1002.CI	910.80	1002-1003, 12" INV IN =902.39	1001-1002, 12" INV OUT =901.89	N: 1032868.61 E: 2830332.81	2'x3' CURB INLET REF: DETAIL 2/C-532
1003.CI	908.76	1003-1004, 12" INV IN =903.74	1002-1003, 12" INV OUT =903.24	N: 1032845.41 E: 2830249.41	2'x3' CURB INLET REF: DETAIL 2/C-532
1004.AI	907.40		1003-1004, 12" INV OUT =904.49	N: 1032867.55 E: 2830176.04	STANDARD DOUBLE GRATE INLET REF: DETAIL 5/C-530
1005.AI	908.20	1005-1006, 12" INV IN =903.15 1005-ID, 12" INV IN =903.25	1001-1005, 12" INV OUT =902.65	N: 1032940.69 E: 2830312.07	STANDARD DOUBLE GRATE INLET REF: DETAIL 5/C-530
1006.AI	908.13	1006-ID, 12" INV IN =903.62	1005-1006, 12" INV OUT =903.42	N: 1032925.34 E: 2830307.57	STANDARD DOUBLE GRATE INLET REF: DETAIL 5/C-530
1007.CI	906.56	1007-1008, 24" INV IN =901.64	1000-1007, 36" INV OUT =901.26	N: 1033029.98 E: 2830180.60	STANDARD CURB INLET REF: DETAIL 1/C-530
1008.JB	906.49		1007-1008, 24" INV OUT =901.85	N: 1032984.96 E: 2830168.78	CONVERT CI TO JUNCTION BOX** REF: DETAIL 2/C-530
EX MH	908.59	EX MH-1000, 36" INV IN =899.37		N: 1032970.53 E: 2830516.95	EXISTING MANHOLE**

* LENGTH OF PIPE AND SLOPE SHOWN EXCLUDE VERTICAL PORTION OR INLINE DRAIN.
 ** EXISTING INCOMING OR OUTGOING PIPES TO REMAIN ARE NOT SHOWN IN TABLE FOR CLARITY. CONTRACTOR TO PLUG AND GROUT EXISTING PENETRATIONS IN STRUCTURE NO LONGER REQUIRED PER CITY OF LEE'S SUMMIT STANDARDS.



1 GRADING & DRAINAGE PLAN

1" = 20'-0"

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FIRE STATION #4
CITY OF LEE'S SUMMIT

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LEE'S SUMMIT, MISSOURI 64064

100% DESIGN DEVELOPMENT DRAWINGS

REVISIONS:

#	Description	Date

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DATE: 01.20.2022
DRAWN BY: DMH
CHKD BY: ALM

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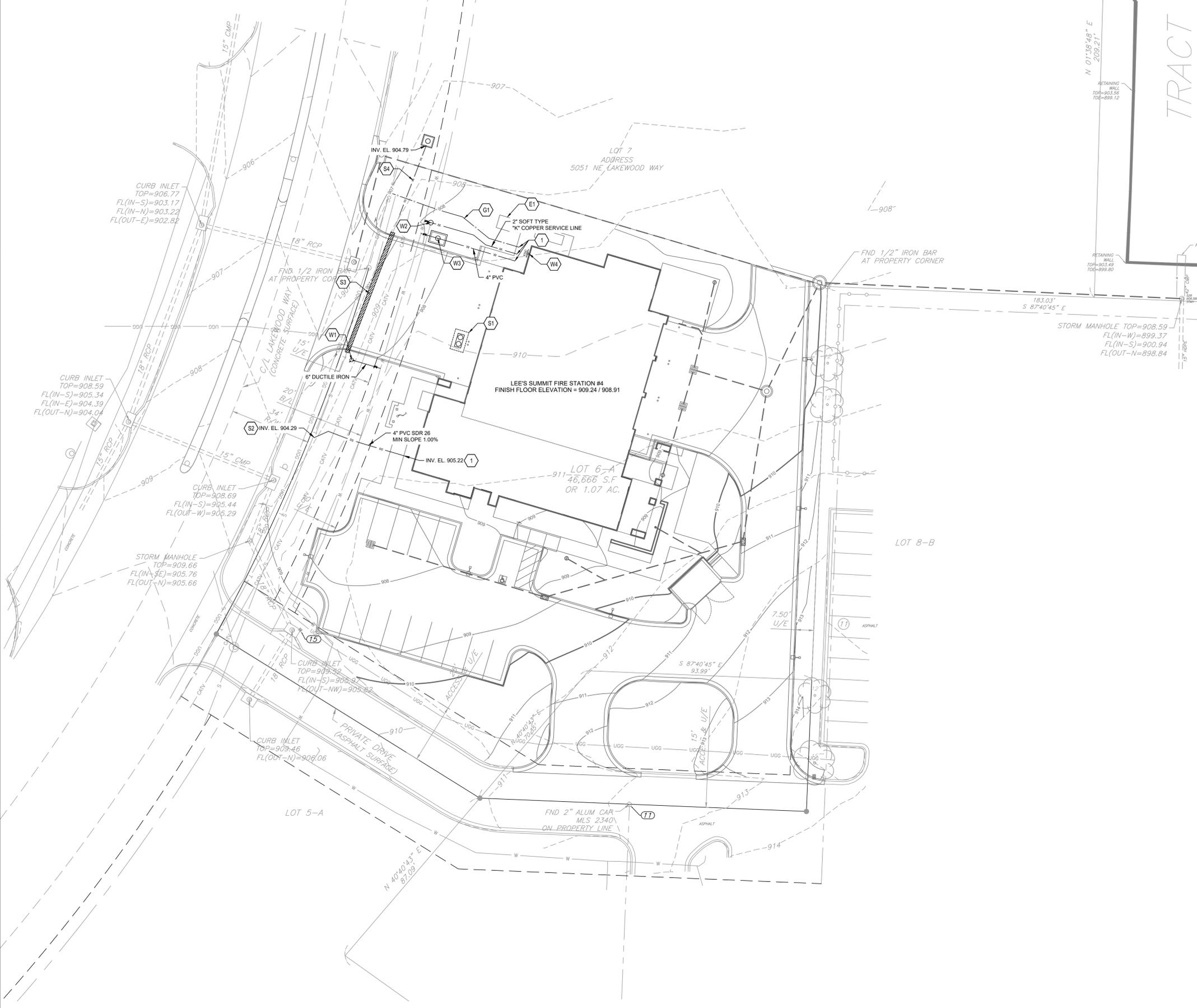
GRADING & DRAINAGE PLAN

D

C

B

A



GENERAL UTILITY NOTES

- UTILITY CONSTRUCTION SHALL COMPLY WITH THE STANDARD SPECIFICATIONS, CODES, AND DETAILS OF THE CITY OF LEE'S SUMMIT, MO AND UTILITY PROVIDERS.
- INSTALLATION, BEDDING, & TESTING OF UTILITY INSTALLATIONS SHALL BE AS PER CITY OF LEE'S SUMMIT, MO STANDARD SPECIFICATIONS AND STANDARD SPECIAL PROVISIONS.
 - THE INFORMATION SHOWN ON THESE PLANS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES FOR FIELD LOCATION OF ALL UNDERGROUND UTILITY LINES PRIOR TO ANY EXCAVATION AND FOR MAKING HIS OWN VERIFICATION AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERE TO.
 - PROTECT ALL COMPONENTS DURING DEMOLITION / CONSTRUCTION PROCESS. MAINTAIN BMP'S THROUGHOUT THE DURATION OF CONSTRUCTION.
 - STUB ALL CONNECTIONS TO WITHIN 5' OF THE BUILDING TO PROVIDE CONNECTION INTO THE BUILDING BY MECHANICAL PLUMBING CONTRACTOR.
 - CONTRACTOR TO PROVIDE DETAILED AS-BUILT DRAWINGS TO OWNER/ENGINEER UPON COMPLETION OF ALL UTILITIES.
 - UTILITY TRENCH BACKFILL SHALL BE PER GEOTECHNICAL REPORT.
 - UTILITY PIPE LENGTHS ARE PROVIDED FOR INFORMATION ONLY. CONTRACTOR TO VERIFY ACTUAL LENGTHS OF PIPE REQUIRED PRIOR TO BIDDING & INSTALLING UTILITIES.
 - UTILITY CONTRACTOR TO COORDINATE BUILDING CONNECTION POINTS WITH PLUMBING PLAN AND BUILDING CONTRACTOR.

GENERAL KEYNOTES

- 1 UTILITY INTERFACE POINT. SEE MEP PLANS FOR CONTINUATION.

ELECTRIC KEYNOTES

- E1 ELECTRIC TRANSFORMER. UNDERGROUND ELECTRIC DESIGN AND ROUTING BY OTHERS.

GAS KEYNOTES

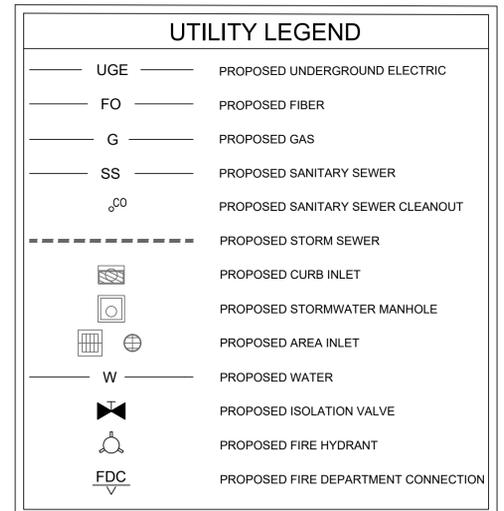
- G1 GAS LINE DESIGN AND INSTALLATION PER SERVICE PROVIDER.

SANITARY SEWER KEYNOTES

- S1 SAND / OIL INTERCEPTOR AND ASSOCIATED SANITARY PIPING DESIGN BY OTHERS. REF: MECHANICAL
- S2 TIE INTO EXISTING 8" SANITARY SEWER LINE. REF: C-540
- S3 CONCRETE ENCASE EXISTING 8" SANITARY SEWER LINE. REF: C-540
- S4 EXTEND EXISTING 8" SANITARY SEWER LINE TO LOT 7. REMOVE EXISTING MANHOLE AND INSTALL A CONNECTION SPLICE AT EXISTING MANHOLE TO BE REMOVED. INSTALL SHALLOW PRECAST SANITARY MANHOLE. REF: C-102, C-340, AND C-540 (LTR)

DOMESTIC WATER AND FIRE KEYNOTES

- W1 HYDRANT - STRAIGHT SET REF: C-520
- W2 DOMESTIC WATER SERVICE CONNECTION WITH METER WELL REF: C-521
- W3 FIRE PROTECTION DOUBLE CHECK DETECTOR CHECK WITH VAULT REF: C-521
- W4 FIRE DEPARTMENT CONNECTION.



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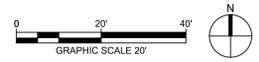
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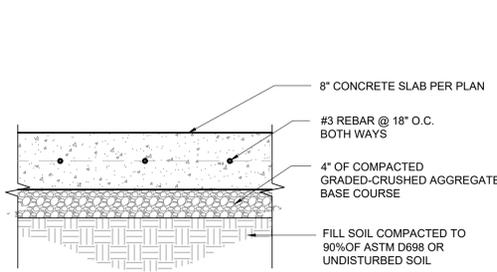
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UTILITY PLAN

C-105

1 UTILITY PLAN
 1" = 20'-0"

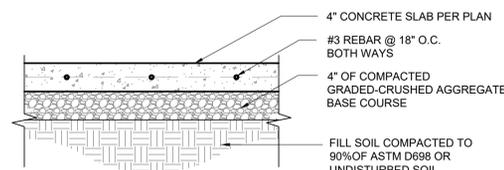




- NOTES:
- SUBGRADE SHALL BE STABLE, COMPACTED EARTH AND SHALL BE OVERLAYERED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
 - KCMB 4K CONCRETE MIX SHALL BE REQUIRED FOR ALL CONCRETE PAVING.
 - WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.

1 TYP. CONCRETE PAVING

1" = 1'



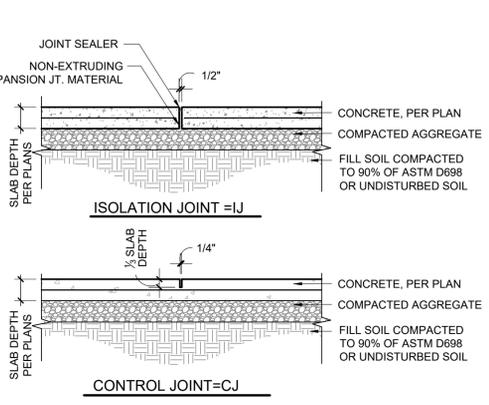
- NOTES:
- SUBGRADE SHALL BE STABLE, COMPACTED EARTH AND SHALL BE OVERLAYERED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
 - 1.5% CROSS SLOPE MUST BE MAINTAINED THROUGH DRIVEWAYS.
 - KCMB 4K CONCRETE MIX SHALL BE REQUIRED FOR ALL SIDEWALKS.
 - AN ISOLATION JOINT SHALL BE PLACED AT A MAXIMUM OF 100 FT. CONSTRUCTION JOINTS SHALL BE PLACED THE SAME WIDTH OF THE SIDEWALK, BUT NO GREATER THAN 10 FT.
 - AN ISOLATION JOINT SHALL BE PLACED WHERE THE SIDEWALK MEETS A DRIVEWAY.
 - SIDEWALK FINISHING SHALL BE FULL BROOM FINISH.
 - WHITE CURING COMPOUND MUST BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.

2 CONCRETE SIDEWALK PAVING

1" = 1'

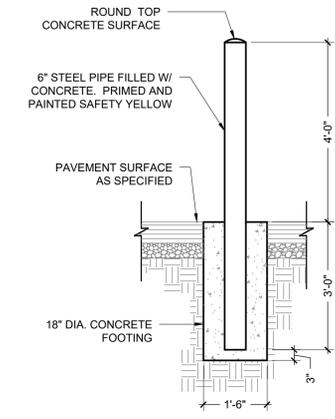
- DETAIL NOTES:
- ALL CONCRETE AT SIDEWALKS IS NONSTRUCTURAL.
 - JOINTS TO BE LOCATED WHERE SHOWN ON PLAN, OR TO MATCH EXISTING JOINTS WHERE INDICATED. CONTRACTION JOINT LOCATIONS SHALL MEET REQUIREMENTS WITHIN THE CONCRETE WALK JOINT SPACING CHART.
 - CONSTRUCT 1/2" EXPANSION JOINTS WHERE SHOWN ON PLAN AND AT STRUCTURES. EXPANSION JOINT LOCATIONS SHALL MEET REQUIREMENTS WITHIN THE CONCRETE WALK JOINT SPACING CHART

CONCRETE SIDEWALK JOINT SPACING				
CONTROL JOINTS			ISOLATION JOINTS	
WIDTH	TRANSVERSE	LONGITUDINAL		
4'	4'	NOT REQ'D	40' MAX	
6'	6'	NOT REQ'D	42' MAX	
8'	4'	4'	40' MAX	
10'	5'	5'	40' MAX	
12'	6'	6'	42' MAX	



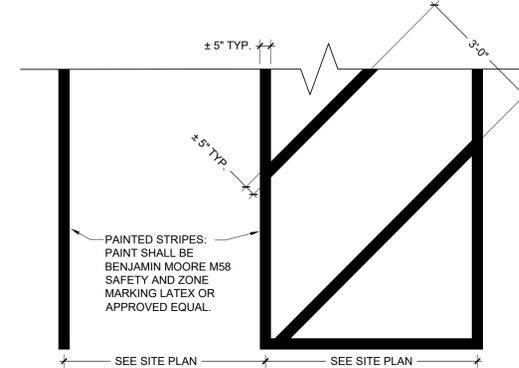
3 CONCRETE JOINTING

3/4" = 1'



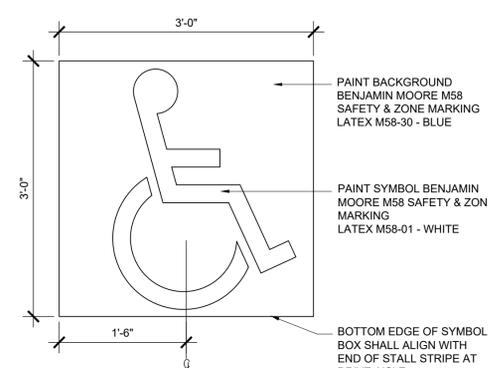
4 TYP. SAFETY BOLLARD

1/2" = 1'



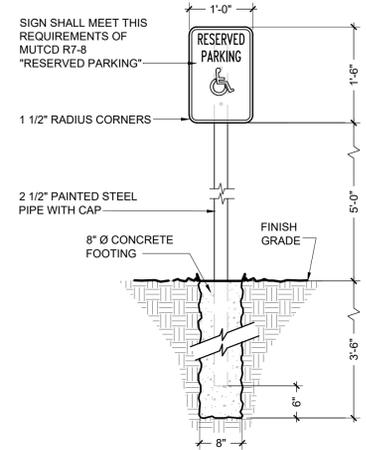
5 PAVEMENT STRIPING

1/2" = 1'



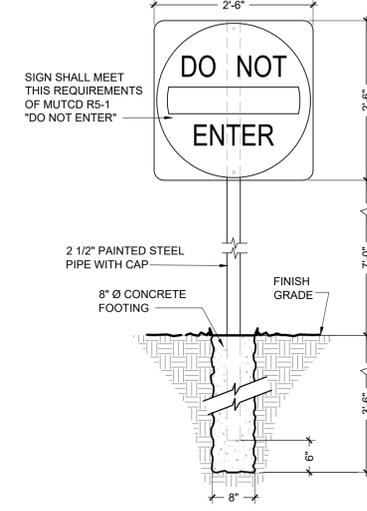
6 ADA PAVEMENT MARKING

1" = 1'



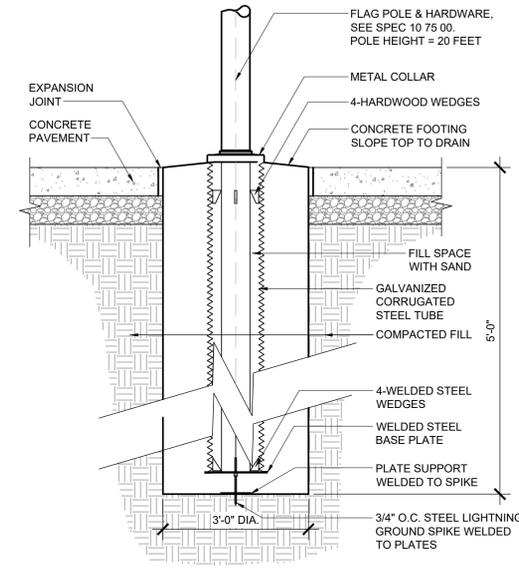
7 ADA PARKING SIGN

3/4" = 1'



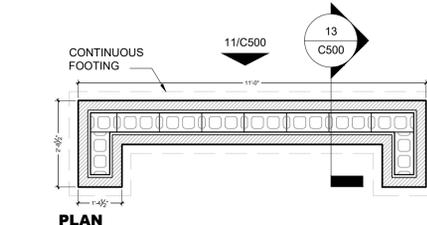
8 DO NOT ENTER SIGN

3/4" = 1'



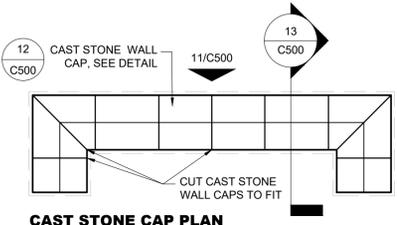
9 FLAG POLE

1/2" = 1'

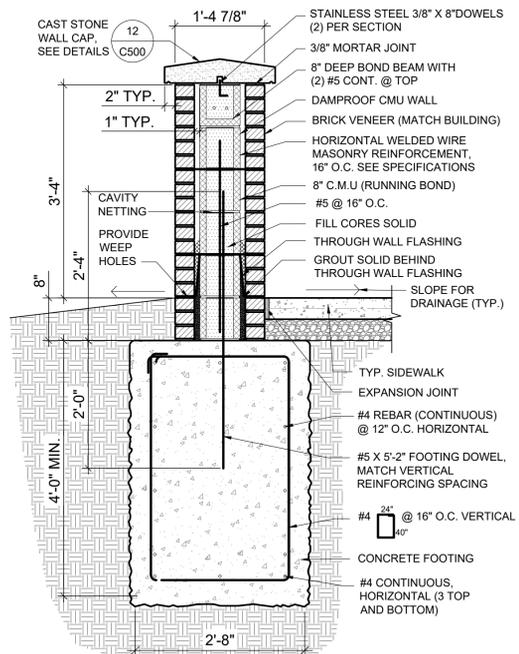


10 MONUMENT SIGN

3/8" = 1'

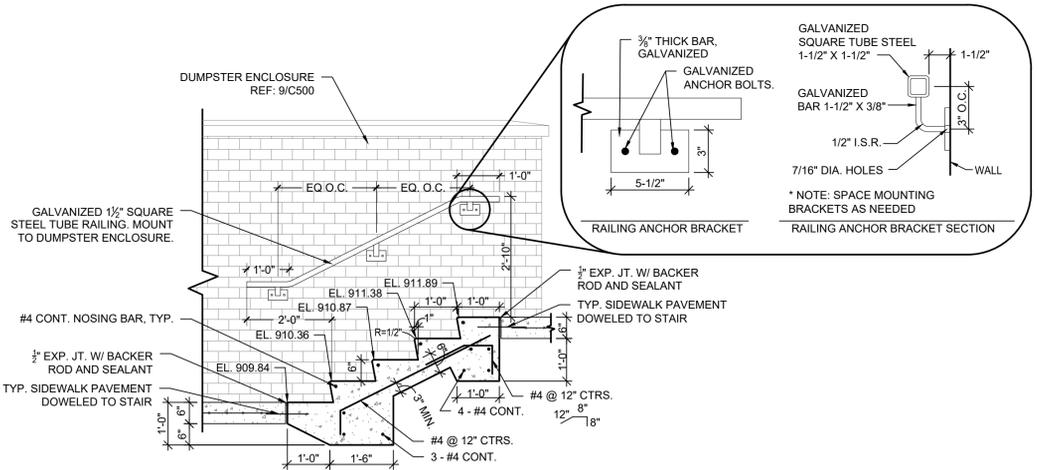


CAST STONE CAP PLAN



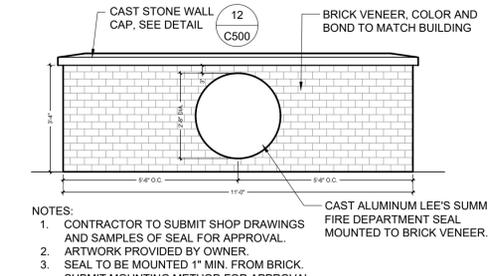
13 MONUMENT SIGN SECTION

3/4" = 1'



14 CONCRETE STEPS WITH RAILING

3/4" = 1'



11 MONUMENT SIGN ELEVATION

3/8" = 1'

12 MONUMENT SIGN CAP

3/8" = 1'

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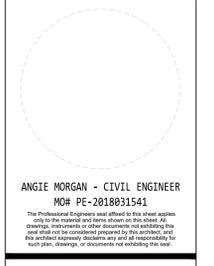
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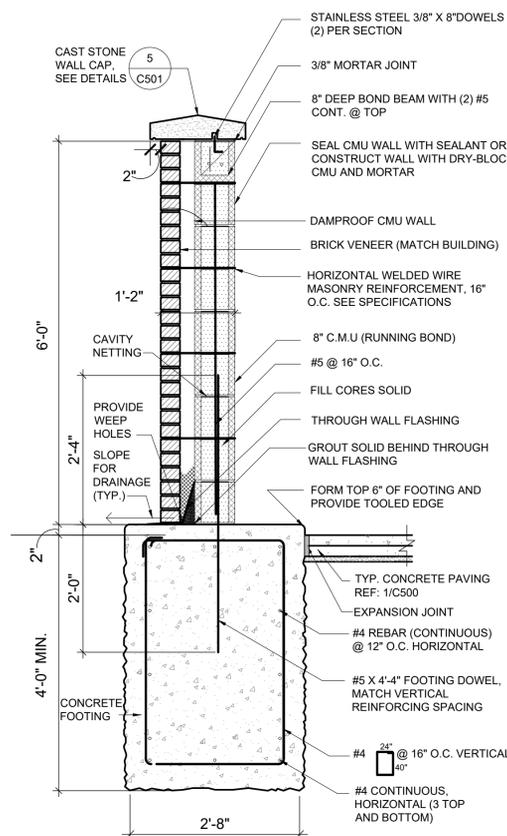
SITE DETAILS

C-500

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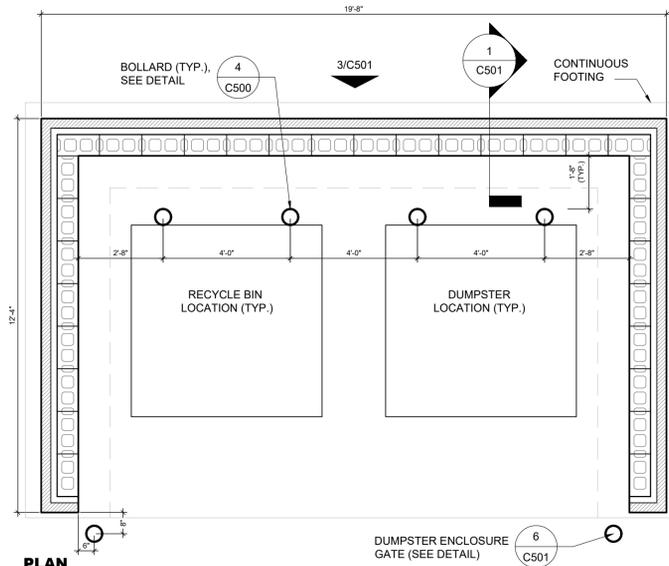
NOTES:

1. MATCH CAST STONE CAP MORTAR TO THE MORTAR COLOR USED ON THE BUILDING.
2. AT ALL JOINTS IN CAP, RAKE MORTAR BACK AND INSTALL BOND BREAKER AND SEALANT.
3. PAINT EXPOSED CMU WALL TO MATCH CAST STONE.



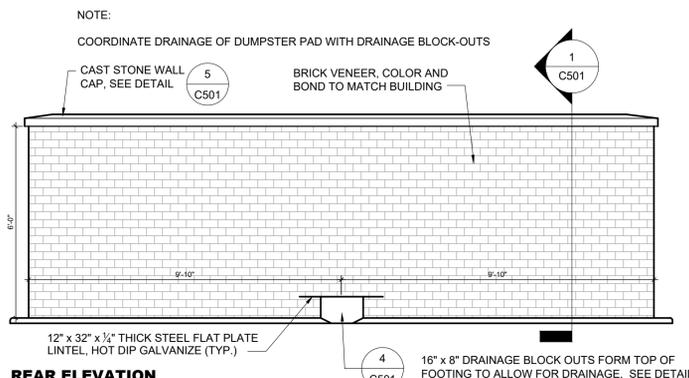
1 DUMPSTER ENCLOSURE WALL SECTION

3/4" = 1'



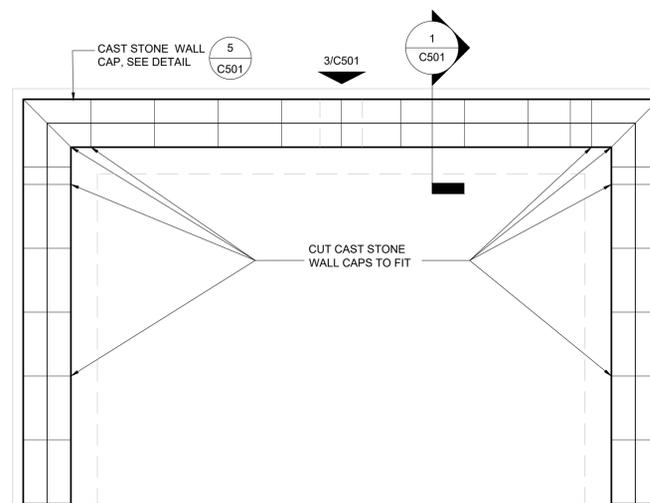
2 DUMPSTER ENCLOSURE PLAN

3/8" = 1'

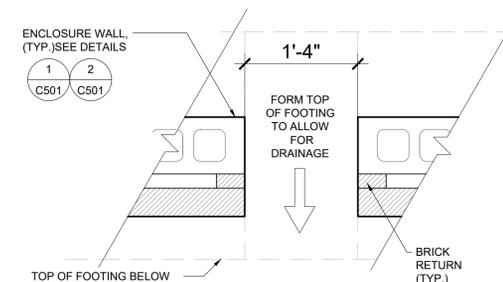


3 DUMPSTER ENCLOSURE ELEVATION

3/8" = 1'

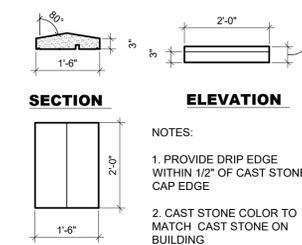


CAST STONE CAP PLAN



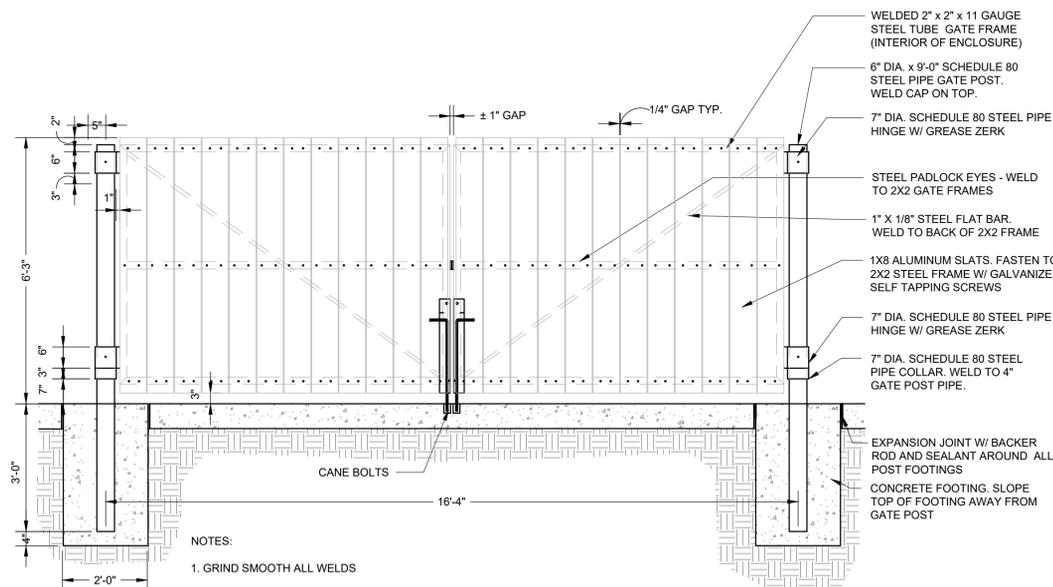
4 DRAINAGE BLOCK-OUT

1" = 1'



5 CAST STONE WALL CAP

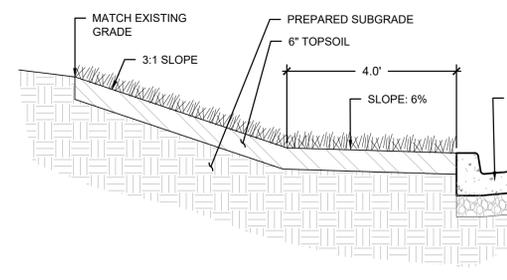
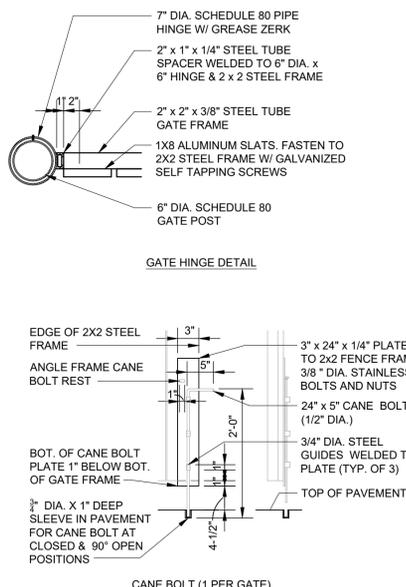
1/2" = 1'



- NOTES:
1. GRIND SMOOTH ALL WELDS
 2. ALL GATE COMPONENTS SHALL BE GALV.

6 DUMPSTER ENCLOSURE GATE

3/4" = 1'



7 SITE PERIMETER CUT SLOPE SECTION

1/2" = 1'

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CITY OF LEE'S SUMMIT
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LEE'S SUMMIT, MISSOURI 64064

100% DESIGN DEVELOPMENT DRAWINGS

REVISIONS:

#	Description	Date

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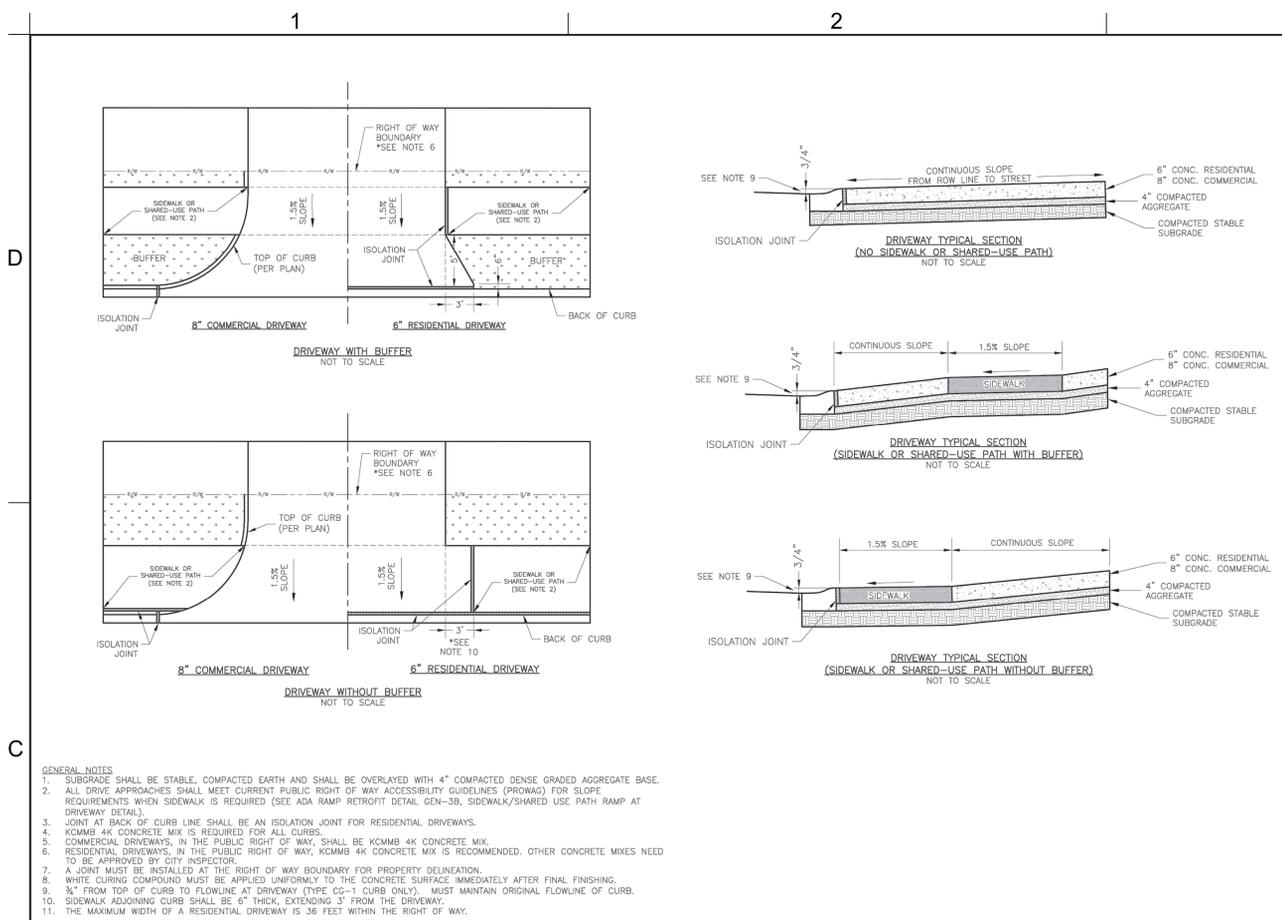
PROJECT NO: 18225R21001
DATE: 01.20.2022
DRAWN BY: KDW
CHKD BY: ALM

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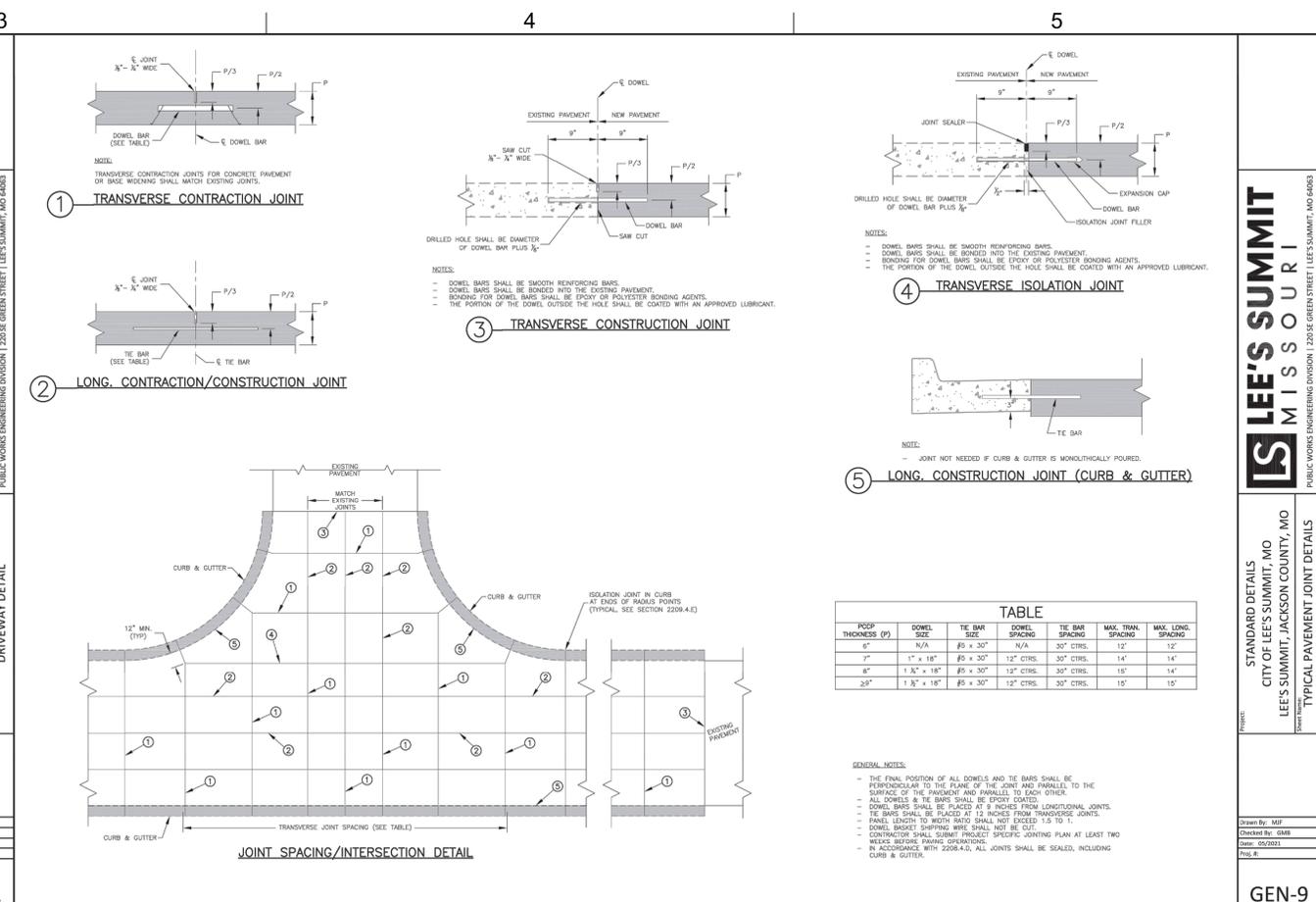
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STANDARD DETAILS
 CITY OF LEE'S SUMMIT, MO
 LEE'S SUMMIT, JACKSON COUNTY, MO

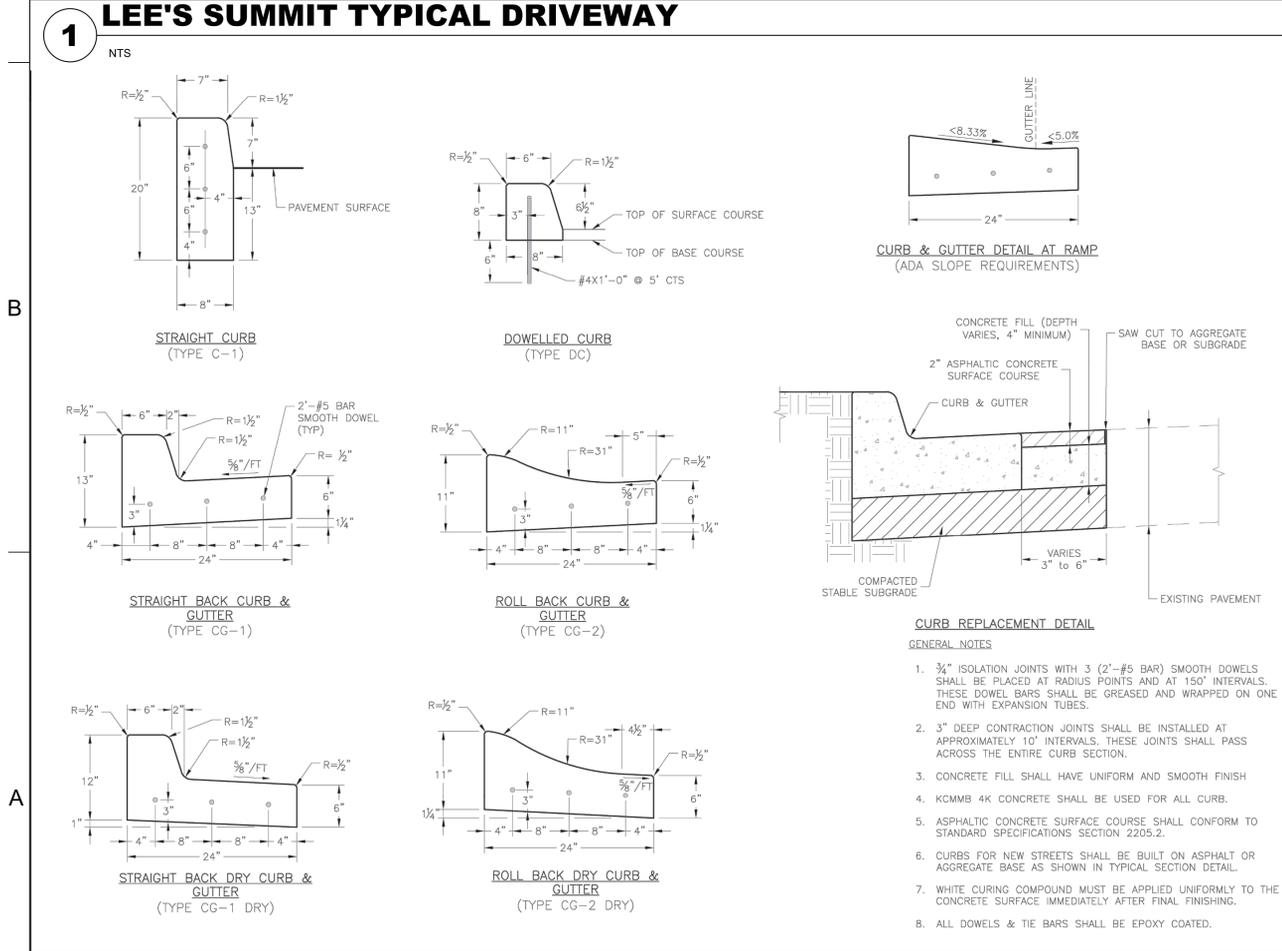
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STANDARD DETAILS
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Drawn By: MJP
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 Date: 02/2023
 Title: GEN-9



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 Date: 05/2023
 Title: GEN-4

1 LEE'S SUMMIT TYPICAL DRIVEWAY

2 LEE'S SUMMIT TYPICAL PAVEMENT JOINTING

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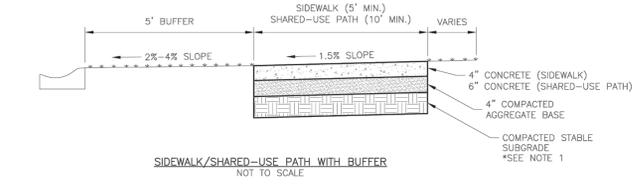
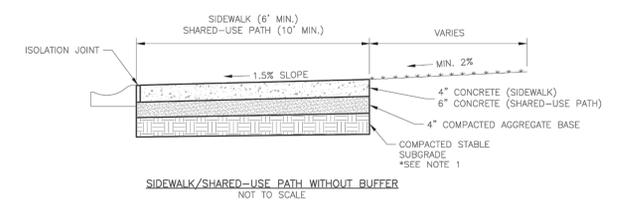
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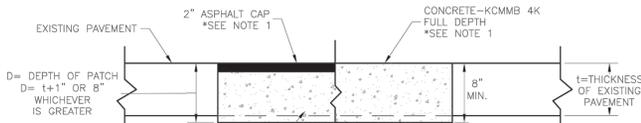
- GENERAL NOTES:**
- SUBGRADE MUST BE OF STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
 - 1.5% CROSS SLOPE MUST BE MAINTAINED THROUGH DRIVEWAYS.
 - KCMMB 4K CONCRETE MIX SHALL BE REQUIRED FOR ALL SIDEWALK/SHARED-USE PATHS.
 - ALL SIDEWALK/SHARED-USE PATHS SHALL MEET CURRENT PUBLIC RIGHT OF WAY ACCESSIBILITY GUIDELINES (PROWAG).
 - AN ISOLATION JOINT SHALL BE PLACED AT A MAXIMUM OF 100 FT. CONSTRUCTION JOINTS SHALL BE PLACED THE SAME WIDTH OF SIDEWALK/SHARED-USE PATHS, BUT NO GREATER THAN 10 FT.
 - AN ISOLATION JOINT SHALL BE PLACED WHERE THE SIDEWALK/SHARED-USE PATHS MEETS A RESIDENTIAL DRIVEWAY.
 - SHARED-USE PATHS WIDTH SHALL BE 10 FT. WIDE.
 - SIDEWALK/SHARED-USE PATHS FINISHING SHALL BE FULL BROOM FINISH OR AS DIRECTED BY CITY INSPECTOR.
 - WHITE CURING COMPOUND SHALL BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.

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LS **GEN-2**

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1 LEE'S SUMMIT TYPICAL SIDEWALK
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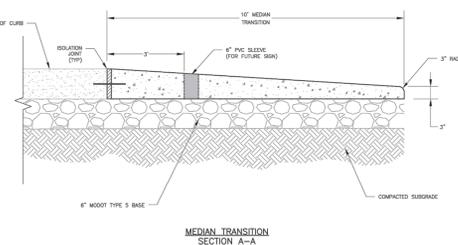
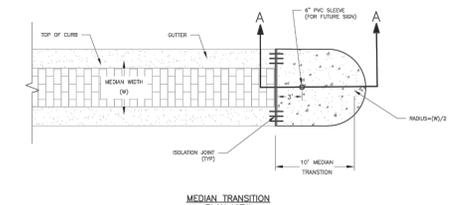
- NOTE:**
- ASPHALT CAP OR FULL DEPTH CONCRETE SHALL BE DETERMINED BY CITY INSPECTOR.

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LS **GEN-5**

Date: 05/2021
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2 LEE'S SUMMIT TYPICAL ROADWAY PATCH
NTS



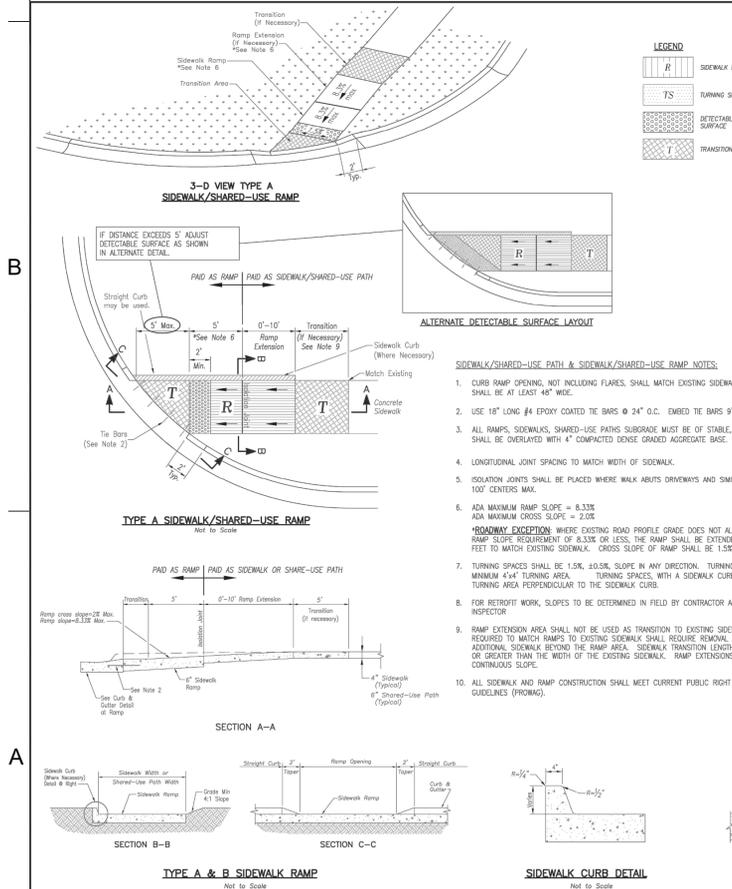
- NOTES:**
- AN ISOLATION JOINT WITH 2" x 12" COP BRASS CURBS SHALL BE PLACED AT THE TERMINATION OF THE CURB TO ALLOW FOR THERMAL EXPANSION AND CONTRACTION.
 - ALL MEDIAN TRANSITIONS SHALL BE POURED MONOLITHICALLY USING REBAR AT CONCRETE.
 - SUBGRADE SHALL BE STABLE, COMPACTED EARTH AND SHALL BE OVERLAYED WITH 4" COMPACTED DENSE GRADED AGGREGATE BASE.
 - WHITE CURING COMPOUND SHALL BE APPLIED UNIFORMLY TO THE CONCRETE SURFACE IMMEDIATELY AFTER FINAL FINISHING.

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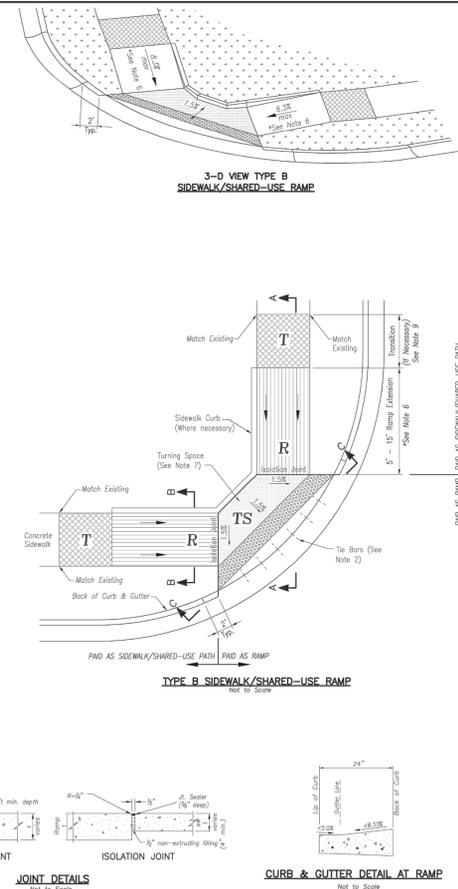
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3 LEE'S SUMMIT TYPICAL MEDIAN TRANSITION
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4 LEE'S SUMMIT TYPICAL ADA RAMP RETROFIT
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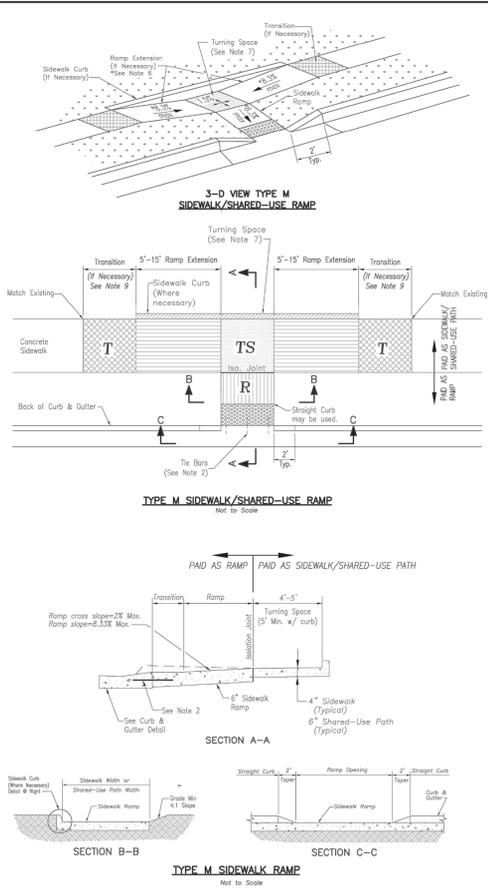
1 LEE'S SUMMIT TYPICAL ADA RAMP RETROFIT
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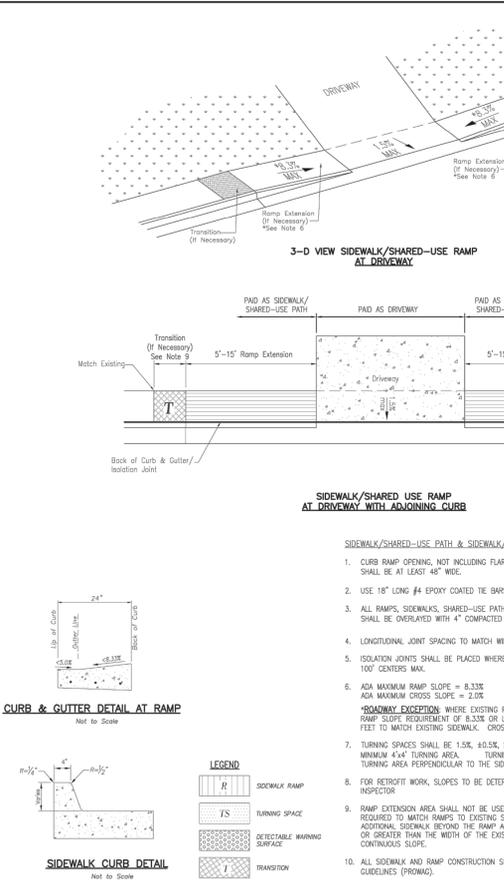
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2 LEE'S SUMMIT TYPICAL ADA RAMP RETROFIT
NTS



3 LEE'S SUMMIT TYPICAL ADA RAMP RETROFIT
NTS



4 LEE'S SUMMIT TYPICAL ADA RAMP RETROFIT
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LS **GEN-3B**

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5 LEE'S SUMMIT TYPICAL ADA RAMP RETROFIT
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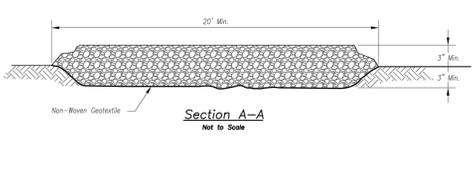
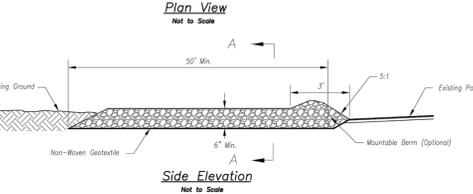
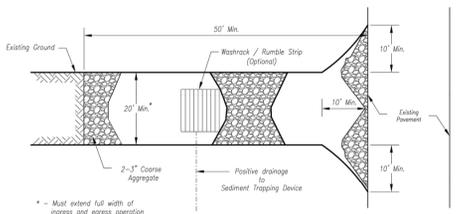
SITE DETAILS

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5 LEE'S SUMMIT TYPICAL ADA RAMP RETROFIT
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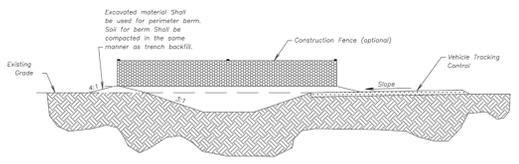
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- Notes for Concrete Washout:**
- Concrete washout areas shall be installed prior to any concrete placement on site.
 - Concrete washout area shall include a flat substructure pit sloped relative to the amount of concrete to be placed on site. The slope leading out of the substructure pit shall be 3:1. 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.
 - Slope 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 truck and pump rigs.
 - A one-piece impervious liner may be required along the bottom and sides of the substructure 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 substructure 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.



- 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 V 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 dress 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.

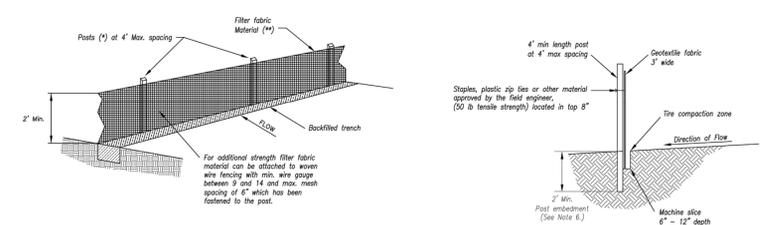
AMERICAN PUBLIC WORKS ASSOCIATION
KANSAS CITY METRO CHAPTER
STANDARD DRAWING NUMBER ESC-01 ADOPTED: 10/24/2016
CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT

1 CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT

1 NTS

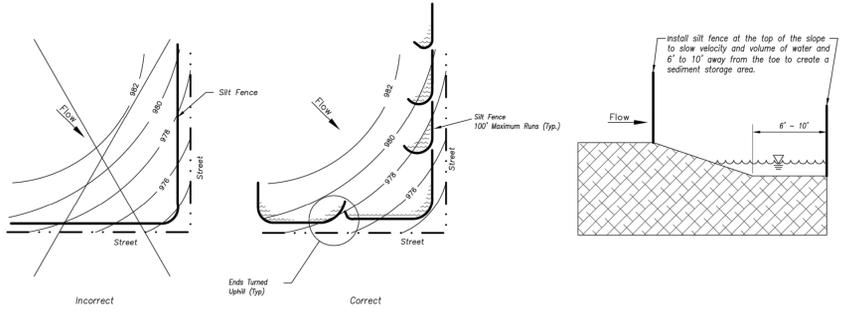
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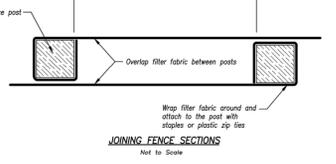
- (*) POSTS**
- MIN. LENGTH 4'
 - HARDWOOD 1 1/2" x 1 1/2"
 - NO. 2 SOUTHERN PINE 2 1/2" x 2 1/2"
 - STEEL 1.33 LB/FT

- (**) Geotextile fabric shall meet the requirements of AKSHTO M256**



- Notes:**
- In order to contain water, the ends of the silt fence must be turned uphill (Figure A).
 - Long perimeter runs of silt fence must be limited to 100'. Runs should be broken up into several smaller segments to minimize water concentrations (Figure A).
 - Long slopes should be broken up with intermediate rows of silt fence to slow runoff velocities.
 - Attach fabric to upstream side of post.
 - Install posts a minimum of 2' into the ground.
 - Trenching will only be allowed for small or difficult installation, where slicing machine cannot be reasonably used.

- Maintenance:**
- Remove and dispose of sediment deposits when the deposit approaches 1/3 the height of silt fence.
 - Repair as necessary to maintain function and structure.



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

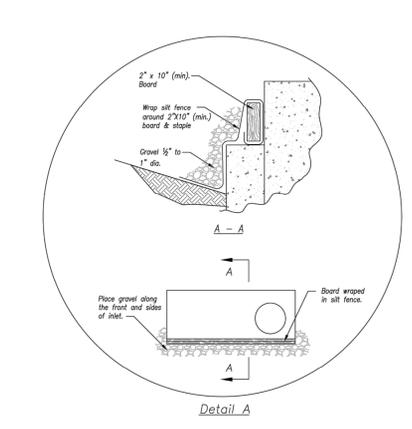
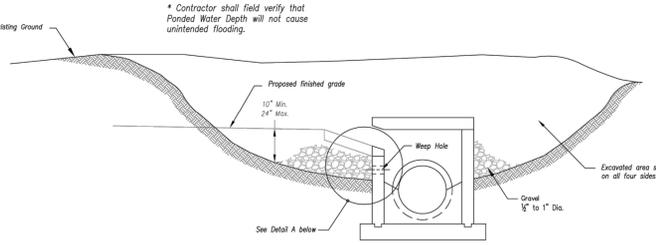
Modified from 2015 Overland Park Standard Details for Erosion and Sediment Control.

3 SILT FENCE

3 NTS

2 EROSION CONTROL BLANKETS AND TURF REINFORCEMENT MATS

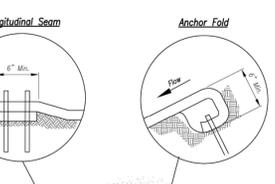
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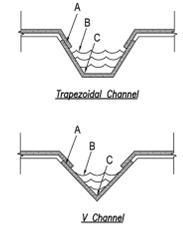
- Notes for Installation on Slopes:**
- Erosion Control Blankets and TRMs shall be laid in the direction of the slope, with the first course of the blanket to be in contact with the soil, by blanket loosely, avoiding stretching.
 - ANCHOR SLOTS: The top of the blanket should be "slotted" in" of the top of the slope and anchored in place with anchors 6 inches apart. The slots should be 6 inches wide x 6 inches deep with the blanket anchored in the bottom of the slot, then backfilled, tamped and seeded.
 - TERMINAL FOLD: The bottom edge of the blanket shall be turned under a minimum of 4 inches, then anchored in place with anchors 6 inches apart.

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KANSAS CITY METRO CHAPTER
STANDARD DRAWING NUMBER ESC-02 ADOPTED: 10/24/2016
EROSION CONTROL BLANKETS AND TURF REINFORCEMENT MATS

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STANDARD DRAWING NUMBER ESC-02 ADOPTED: 10/24/2016
EROSION CONTROL BLANKETS AND TURF REINFORCEMENT MATS



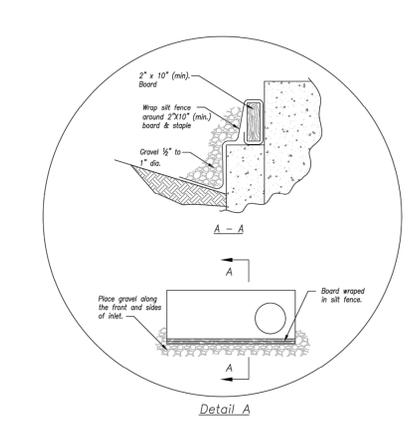
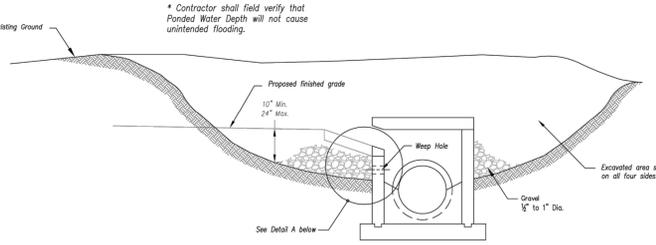
- Notes for Installation in Channels:**
- EROSION CONTROL BLANKETS and TRMs shall be laid in the direction of the flow, with the first course of the mat to be in contact with the soil, by the mat loosely, avoiding stretching.
 - ANCHOR FOLD: The top of the mat should be folded under, buried and secured with wood or other approved anchors placed 6 inches apart. The top edge of the mat should be buried in a slot 6 inches wide x 6 inches deep, anchored in the bottom of the slot, backfilled, and the mat folded over the top as shown in detail.
 - SPLICE SEAM: When splices are necessary, overlap end a minimum of 12 inches in direction of water flow. Stagger splice seams.
 - CHECK SLOTS: Establish check slots transverse to slope every 30 feet. The slots should be 6 inches wide x 6 inches deep. The mat shall be cut to a length 12 inches beyond the slot. The top of the downstream mat shall be slotted in, secured and buried similar to the edge anchor fold. The upstream mat shall then cover the slot and be anchored as shown.
 - EDGE ANCHORS: Lay outside edge of mat into trench at top of the slope and anchor.
 - TERMINUS: The bottom edge of the mat shall be anchored.



- Critical Points:**
- A - Overlaps and seams;
 - B - Projected water line;
 - C - Channel bottom / side slope vertices;

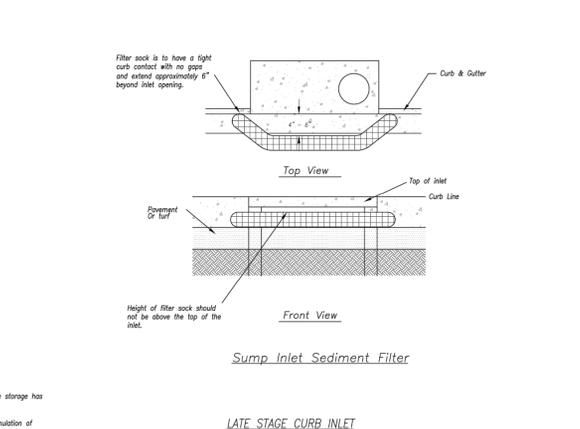
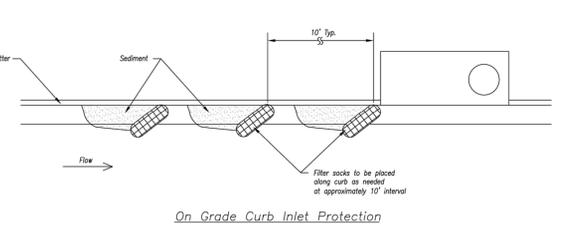
4 CURB INLET PROTECTION

4 NTS



- 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 settling 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). Straw wattles 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 20%.
 - 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.



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

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



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EROSION CONTROL DETAILS

C-510

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B

A

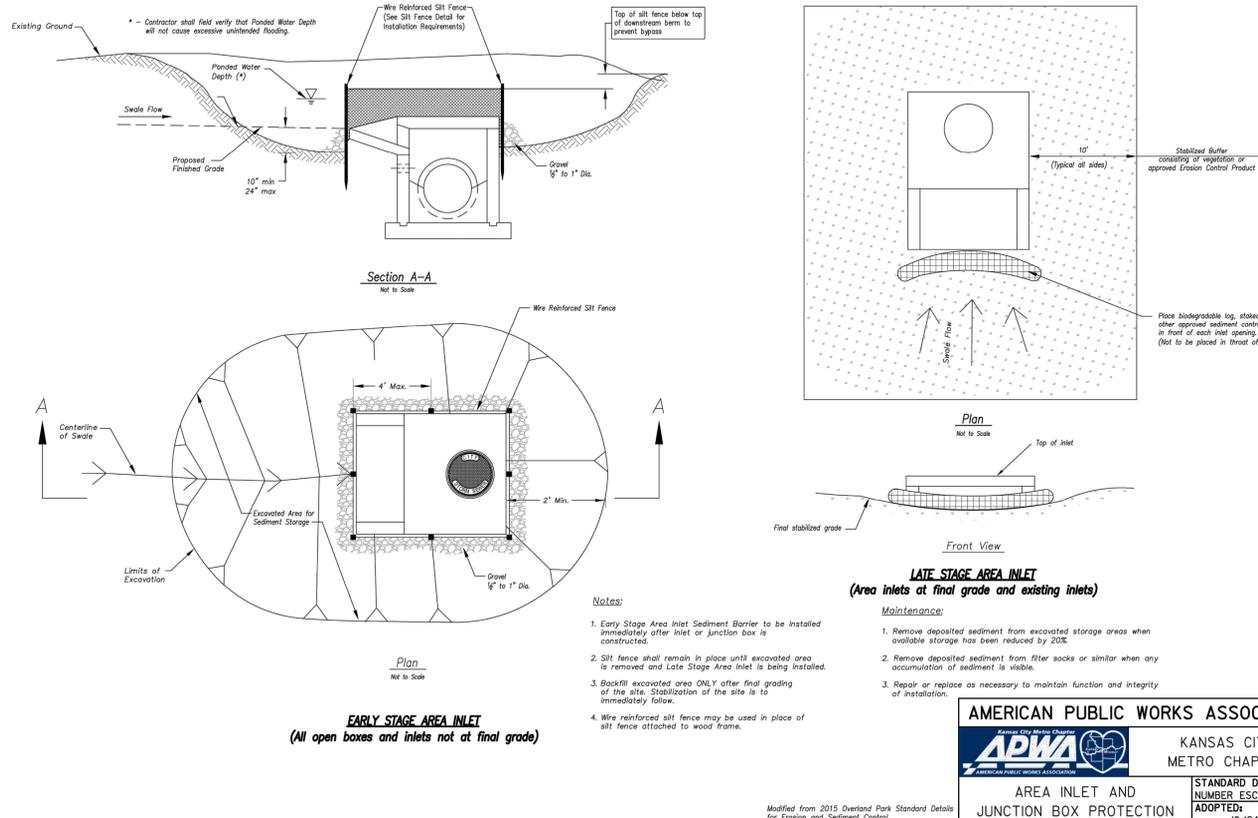
1

2

3

4

5



- Notes:**
1. Early Stage Area Inlet Sediment Barrier to be installed immediately after inlet or junction box is constructed.
 2. Silt fence shall remain in place until excavated area is removed and Late Stage Area Inlet is being installed.
 3. Backfill excavated area ONLY after final grading of the site. Stabilization of the site is to immediately follow.
 4. Wire reinforced silt fence may be used in place of silt fence attached to wood frame.

LATE STAGE AREA INLET
(Area inlets at final grade and existing inlets)

- Maintenance:**
1. Remove deposited sediment from excavated storage areas when available storage has been reduced by 20%.
 2. Remove deposited sediment from filter socks or similar when any accumulation of sediment is visible.
 3. Repair or replace as necessary to maintain function and integrity of installation.

AMERICAN PUBLIC WORKS ASSOCIATION

 KANSAS CITY METRO CHAPTER
 AREA INLET AND JUNCTION BOX PROTECTION
 STANDARD DRAWING NUMBER ESC-07 ADOPTED: 10/24/2016

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

1 AREA INLET AND JUNCTION BOX PROTECTION

NTS

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PROJECT NO:	18225R21001
DATE:	01.20.2022
DRAWN BY:	DMH
CHKD BY:	ALM

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EROSION CONTROL DETAILS

C-511

1

2

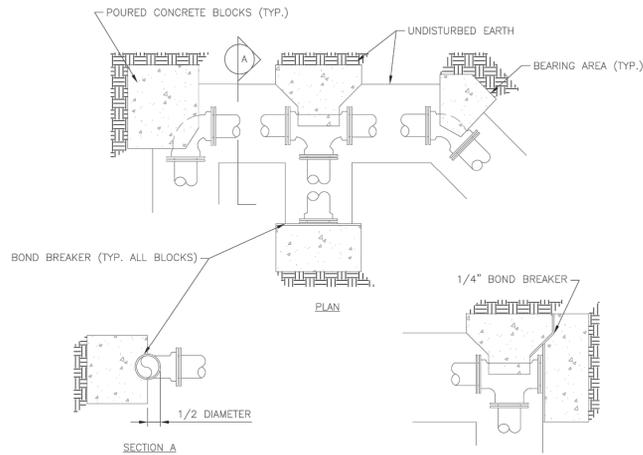
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5

REQUIRED CONCRETE BEARING AREA (SQUARE FEET - SF)

NOM. DIA. (INCHES)	180 TEE, PLUG	90 BEND	45 BEND	22.5 BEND	11.25 BEND
6	4.7	6.7	4.0	4.0	4.0
8	8.4	11.8	6.4	4.0	4.0
10	13.1	18.5	10.0	5.1	4.0
12	18.8	26.7	14.4	7.4	4.0
14	25.7	36.3	19.6	10.0	5.0
16	33.5	47.4	25.6	13.1	6.6
18	42.4	REST. JT.	32.5	16.5	8.3
20	REST. JT.	REST. JT.	40.1	20.4	10.3
24	REST. JT.	REST. JT.	REST. JT.	29.4	14.8



- NOTES:
1. ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT.
 2. MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.
 3. BEARING AREA MUST BE AGAINST UNDISTURBED SOIL.
 4. DO NOT COVER JOINTS OR BOLTS (WHERE APPLICABLE) WITH CONCRETE.

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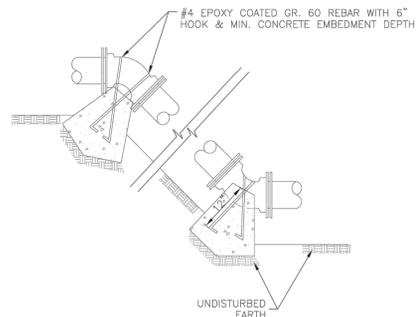
HORIZONTAL THRUST BLOCK

WAT-1

Date: 01/2016
Drawn By: JN
Checked By: DL

REQUIRED CONCRETE VOLUME (CUBIC FEET - CF)

NOM. DIA. (INCHES)	180 TEE, PLUG	90 BEND	45 BEND	22.5 BEND	11.25 BEND
6	50.5	71.4	38.6	19.7	9.9
8	89.8	126.9	68.7	35.0	17.6
10	140.2	198.3	107.3	54.7	27.5
12	202.0	REST. JT.	154.6	78.8	39.6
14	REST. JT.	REST. JT.	210.4	107.3	53.9
16	REST. JT.	REST. JT.	REST. JT.	140.1	70.4
18	REST. JT.	REST. JT.	REST. JT.	177.3	89.1
20	REST. JT.	REST. JT.	REST. JT.	REST. JT.	110.0
24	REST. JT.	REST. JT.	REST. JT.	REST. JT.	158.4



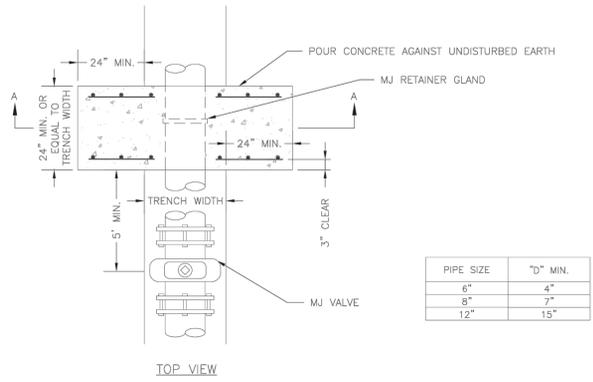
- NOTES:
1. ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT.
 2. MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.
 3. BEARING AREA MUST BE AGAINST UNDISTURBED SOIL.
 4. DO NOT COVER JOINTS OR BOLTS (WHERE APPLICABLE) WITH CONCRETE.

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VERTICAL THRUST BLOCK

WAT-2

Date: WAT-2
Drawn By: JN
Checked By: DL



NOTE:
THIS DETAIL NOT TO BE USED FOR PIPE GREATER THAN 12"

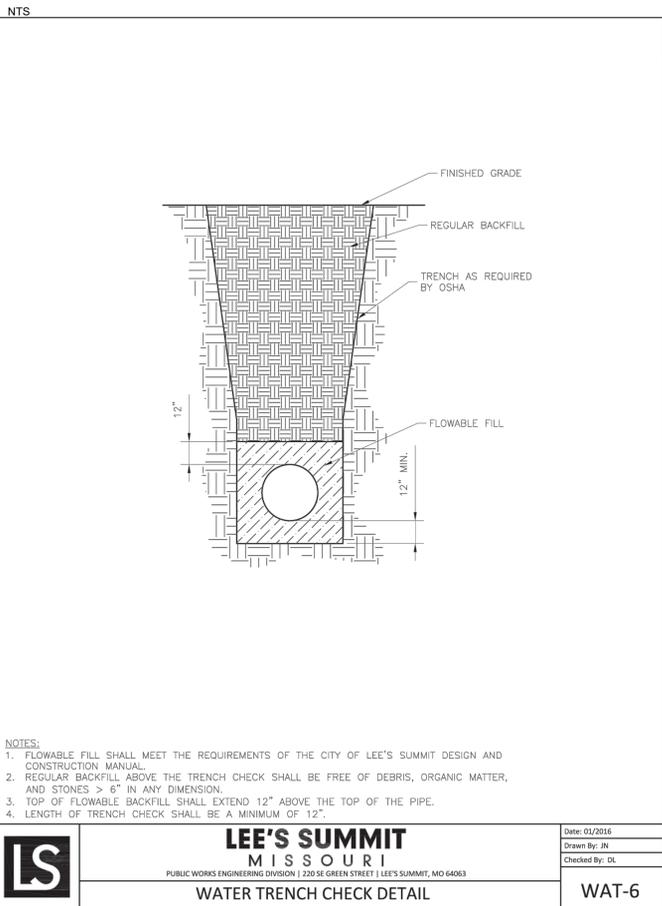
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STRADDLE BLOCK

WAT-3

Date: 01/2016
Drawn By: JN
Checked By: DL

1 HORIZONTAL THRUST BLOCK



- NOTES:
1. FLOWABLE FILL SHALL MEET THE REQUIREMENTS OF THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.
 2. REGULAR BACKFILL ABOVE THE TRENCH CHECK SHALL BE FREE OF DEBRIS, ORGANIC MATTER, AND STONES > 6" IN ANY DIMENSION.
 3. TOP OF FLOWABLE BACKFILL SHALL EXTEND 12" ABOVE THE TOP OF THE PIPE.
 4. LENGTH OF TRENCH CHECK SHALL BE A MINIMUM OF 12".

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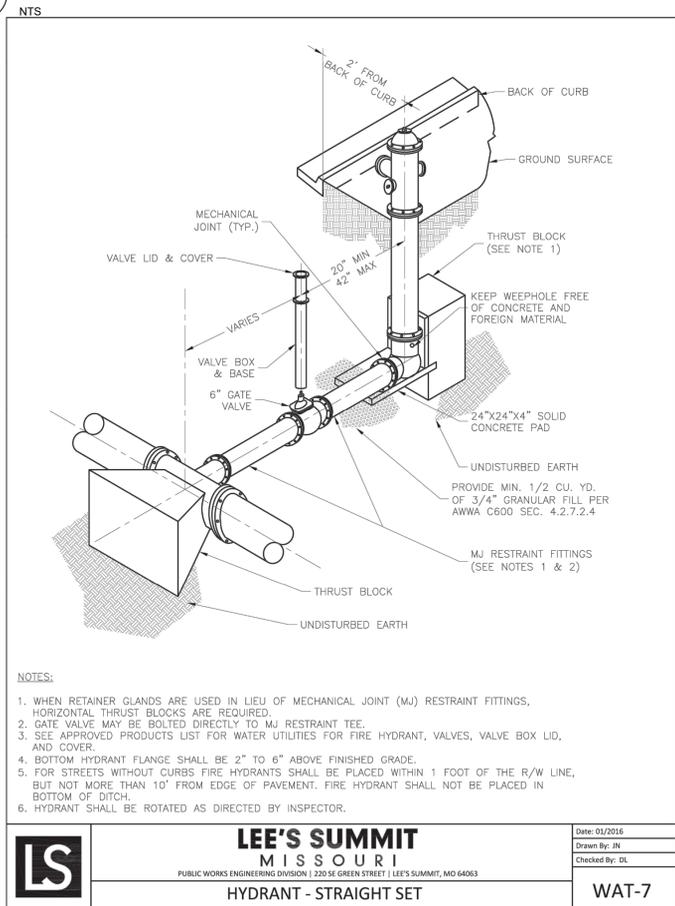
WATER TRENCH CHECK DETAIL

WAT-6

Date: 01/2016
Drawn By: JN
Checked By: DL

4 WATER TRENCH CHECK DETAIL

2 VERTICAL THRUST BLOCK



- NOTES:
1. WHEN RETAINER GLANDS ARE USED IN LIEU OF MECHANICAL JOINT (MJ) RESTRAINT FITTINGS, HORIZONTAL THRUST BLOCKS ARE REQUIRED.
 2. GATE VALVE MAY BE BOLTED DIRECTLY TO MJ RESTRAINT TEE.
 3. SEE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR FIRE HYDRANT, VALVES, VALVE BOX LID, AND COVER.
 4. BOTTOM HYDRANT FLANGE SHALL BE 2" TO 6" ABOVE FINISHED GRADE.
 5. 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.
 6. HYDRANT SHALL BE ROTATED AS DIRECTED BY INSPECTOR.

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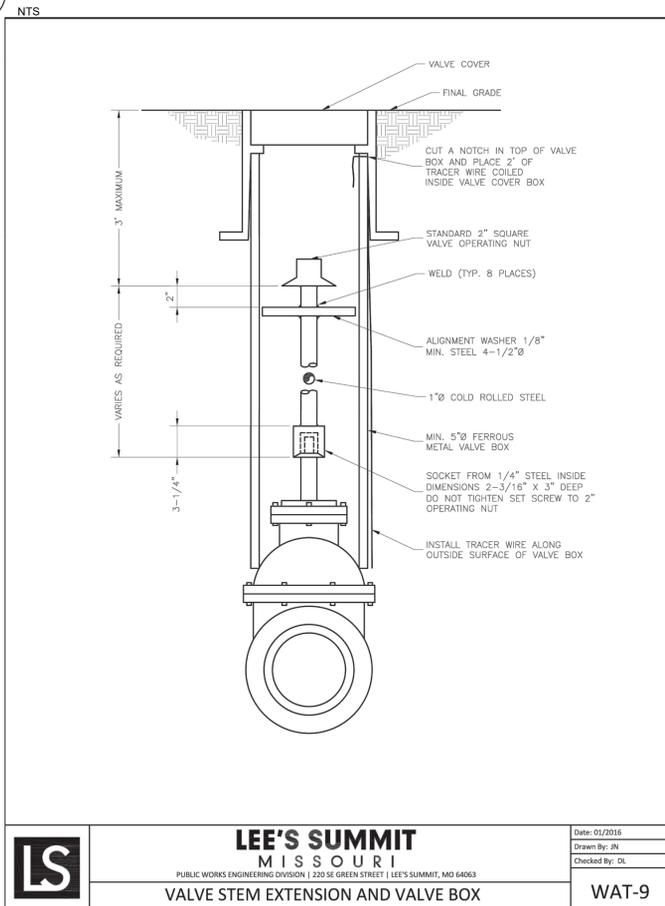
HYDRANT - STRAIGHT SET

WAT-7

Date: 01/2016
Drawn By: JN
Checked By: DL

5 HYDRANT - STRAIGHT SET

3 STRADDLE BLOCK



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VALVE STEM EXTENSION AND VALVE BOX

WAT-9

Date: 01/2016
Drawn By: JN
Checked By: DL

6 VALVE STEM EXTENSION & VALVE BOX

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WATER DETAILS

C-520

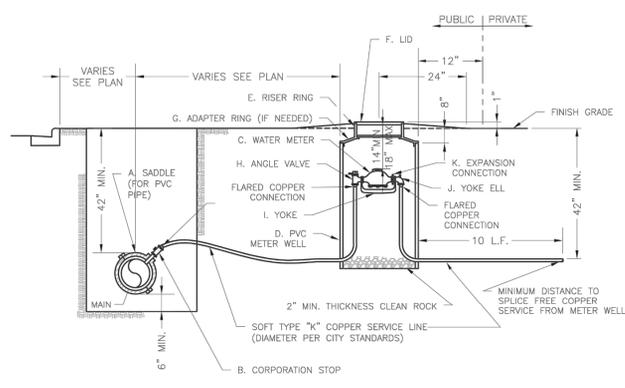
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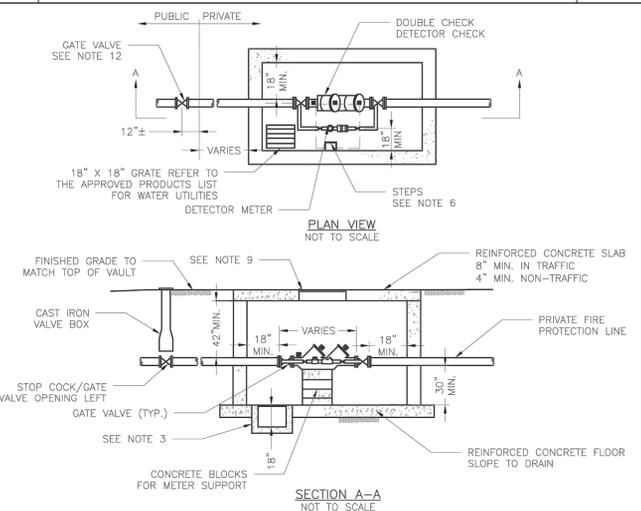
A



- 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"

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	SERVICE CONNECTION WITH METER WELL	WAT-11

1 SERVICE CONNECTION WITH METER WELL
NTS



- GENERAL NOTES:**
- METER VAULT WALLS TO BE POURED OR PRECAST CONCRETE.
 - METER VAULT ROOF TO BE REINFORCED CONCRETE OPENING CENTERED OVER DETECTOR METER.
 - METER VAULT TO BE LOCATED, WHEN POSSIBLE, OUTSIDE TRAFFIC AREA WHERE SURFACE WATER WILL NOT DRAIN INTO IT. VAULT MUST BE KEPT FREE OF WATER. PROVIDE CONCRETE SUMP AS A MINIMUM. WHERE PRACTICAL, PROVIDE A 2" PIPE DRAIN WITH AN ABOVE-GROUND DISCHARGE POINT. PROJECT OWNER MAY DESIRE A PERMANENTLY INSTALLED SUMP PUMP.
 - ALL PIPE SHALL BE DUCTILE IRON CLASS 50. ALL PIPE FITTINGS FROM THE CITY WATER MAIN THROUGH THE VAULT SHALL BE PROVIDED WITH RESTRAINED JOINT FITTINGS.
 - ALL FITTINGS TO BE BRASS.
 - STEPS SHALL BE IN ACCORDANCE WITH THE APPROVED PRODUCTS LIST FOR WATER UTILITIES AND SHALL BE ON 16" CENTERS.
 - A DEPARTMENT OF NATURAL RESOURCES APPROVED DOUBLE CHECK DETECTOR CHECK BACKFLOW PREVENTER MUST BE USED. FOR A COPY OF THE MISSOURI DEPARTMENT OF NATURAL RESOURCES APPROVED BACKFLOW PREVENTION ASSEMBLIES, CONTACT THE WATER UTILITIES OPERATIONS DIVISION AT 816-969-1940. AS OF JANUARY 1, 1987, THE DNR REQUIRES FIRE SPROINKLER SYSTEMS USING CHEMICALS TO HAVE A DNR APPROVED PRESSURE BACKFLOW PREVENTER INSTALLED, PRIOR TO THE MIXING POINT.
 - ALL VALVES SHALL HAVE RISING STEMS.
 - FOR MANHOLE COVERS, SELECT A MANHOLE FOUND ON THE APPROVED PRODUCTS LIST FOR WATER UTILITIES SUITABLE FOR EITHER TRAFFIC OR NON-TRAFFIC CONDITIONS.
 - A MINIMUM OF 18" CLEARANCE SHALL BE PROVIDED AROUND ALL PIPING, VALVES, APPURTENANCES, ETC.
 - METER SHALL BE OWNED AND MAINTAINED BY THE WATER UTILITIES DEPARTMENT.
 - IF PUBLIC WATER IS LOCATED ON THE OPPOSITE SIDE OF THE STREET, THEN THE PUBLIC WATER MAIN RESPONSIBILITY OF THE WATER UTILITIES DEPARTMENT ENDS AT THE GATE VALVE NEAREST THE VAULT.

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	VAULT FOR DOUBLE CHECK DETECTOR CHECK	WAT-12

2 VAULT FOR DOUBLE CHECK DETECTOR CHECK
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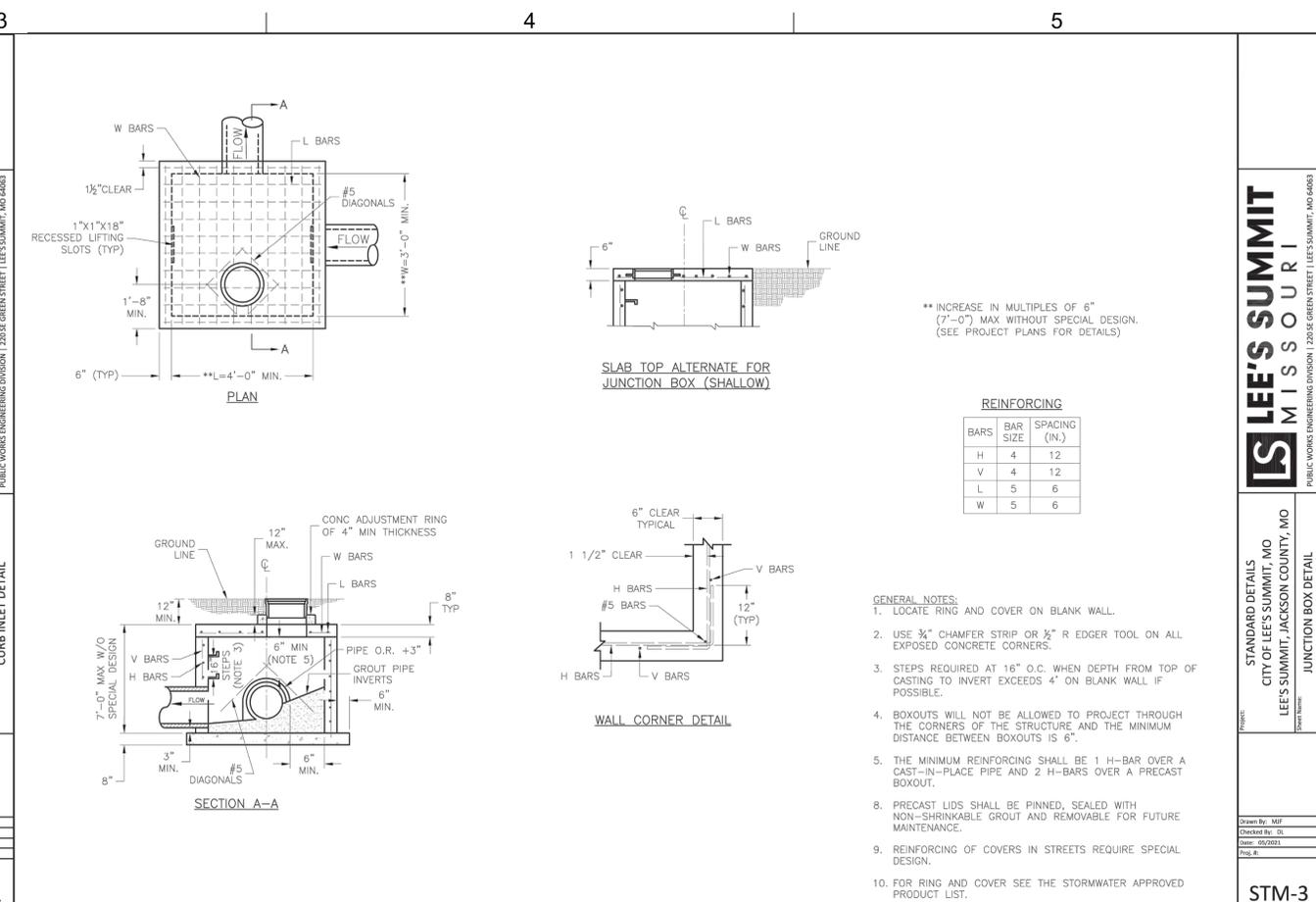
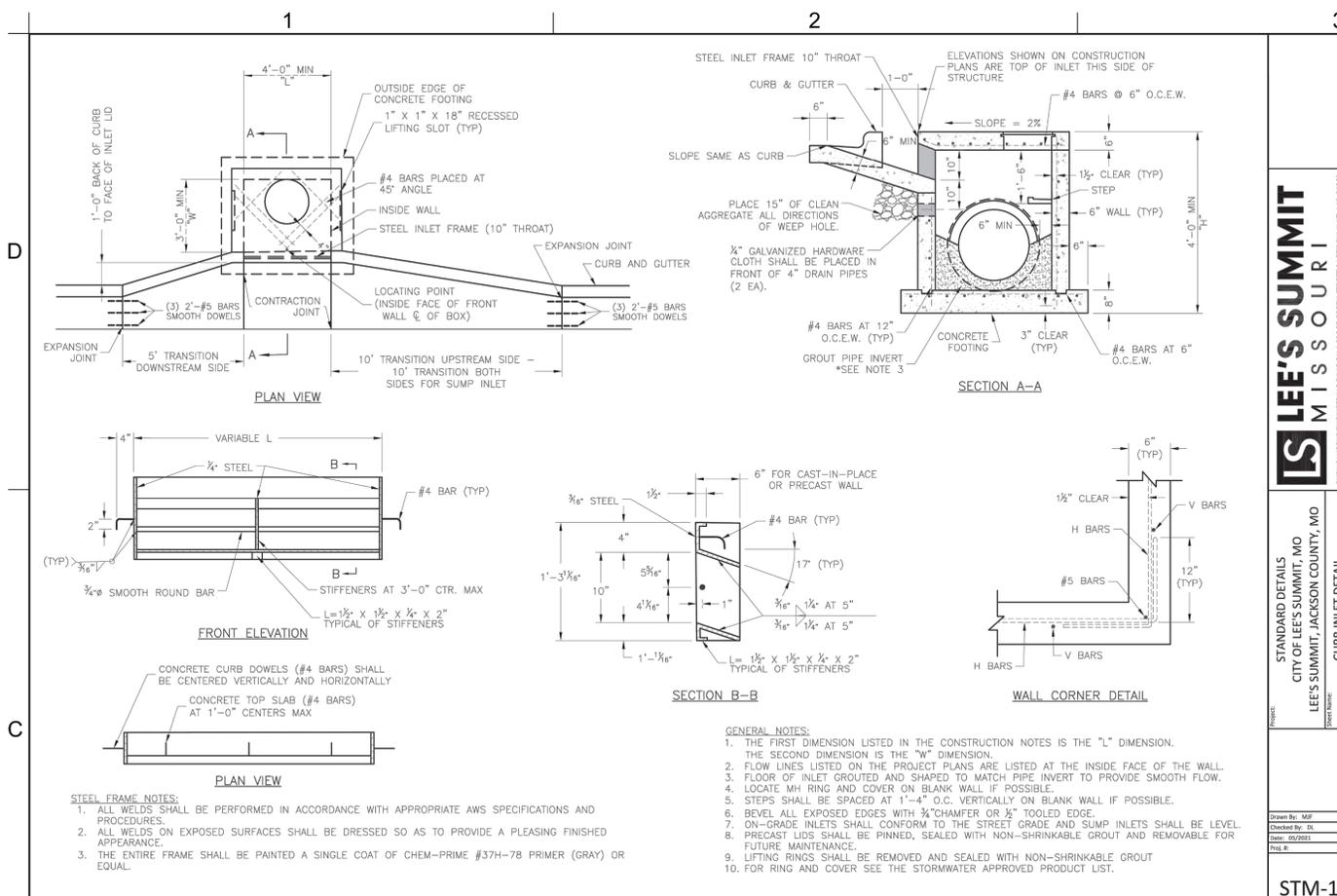
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WATER DETAILS

C-521



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STANDARD DETAILS
 CITY OF LEE'S SUMMIT, MO
 LEE'S SUMMIT, JACKSON COUNTY, MO

STM-1

LEE'S SUMMIT MISSOURI
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STANDARD DETAILS
 CITY OF LEE'S SUMMIT, MO
 LEE'S SUMMIT, JACKSON COUNTY, MO

STM-3

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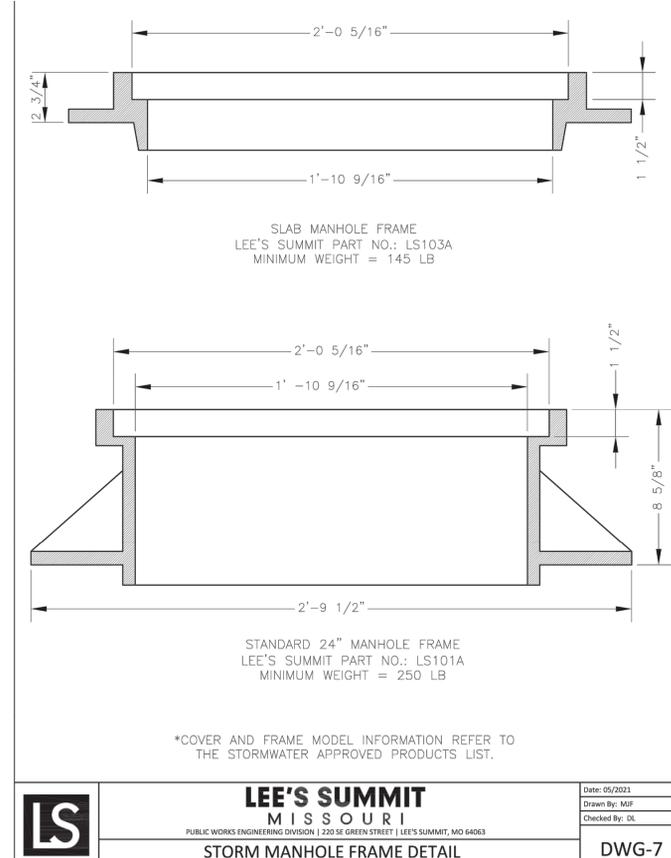
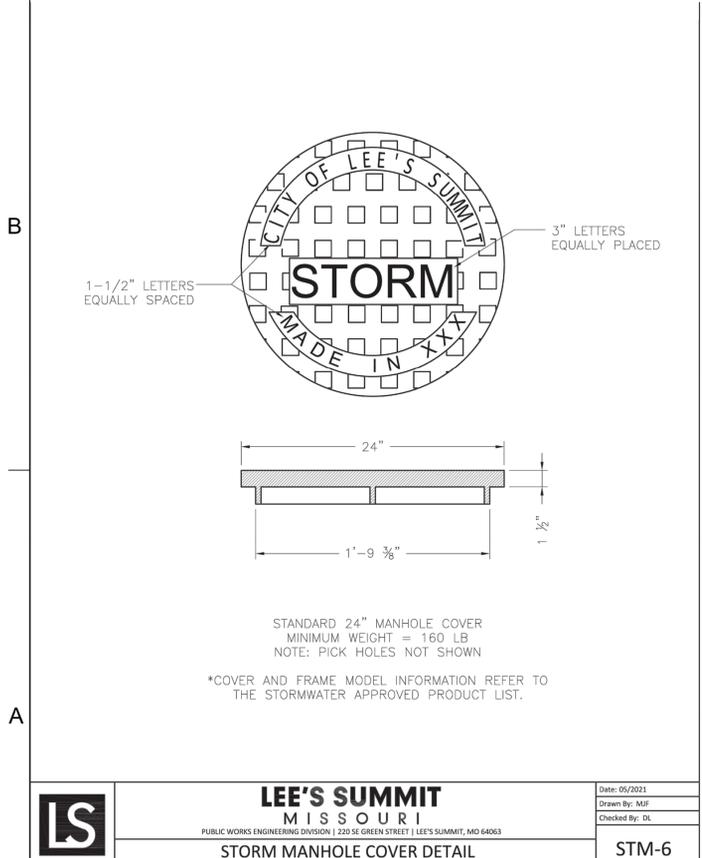
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100% DESIGN DEVELOPMENT DRAWINGS

1 CURB INLET DETAIL

2 JUNCTION BOX DETAIL



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DATE: 05/2021
DRAWN BY: MJF
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STM-6

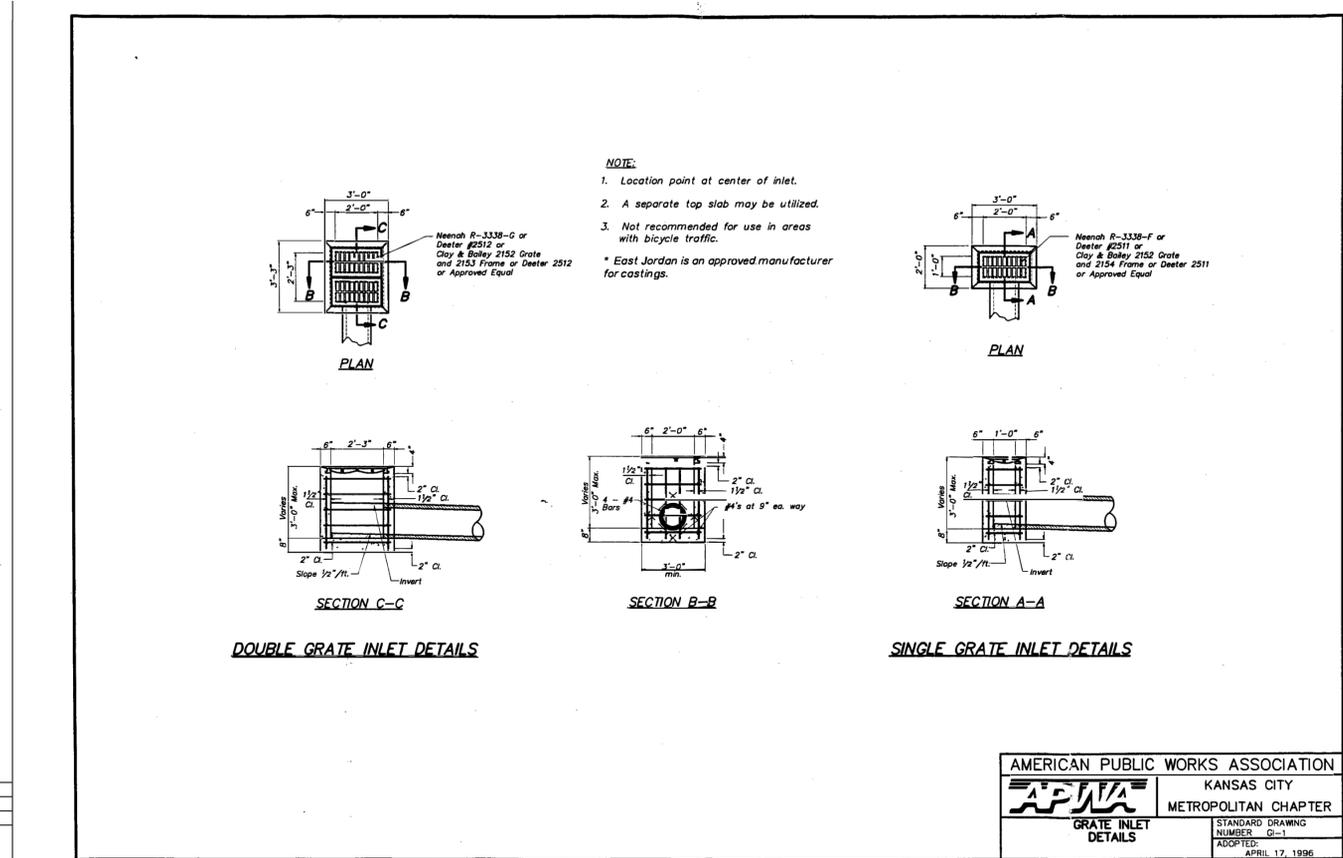
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DATE: 05/2021
DRAWN BY: MJF
CHECKED BY: DL

DWG-7

3 STORM MANHOLE COVER DETAIL

4 STORM MANHOLE FRAME DETAIL



AMERICAN PUBLIC WORKS ASSOCIATION KANSAS CITY METROPOLITAN CHAPTER
GRATE INLET DETAILS
 STANDARD DRAWING NUMBER G-1
 ADOPTED: APRIL 17, 1996

5 GRATE INLET DETAIL

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PROJECT NO: 18225R21001
DATE: 01.20.2022
DRAWN BY: DMH
CHKD BY: ALM

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STORMWATER DETAILS

C-530

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Section 2721

Engineered Surface Drainage Products

GENERAL
PVC surface drainage inlets shall include the drain basin type as indicated on the contract drawing and referenced within the contract specifications.

MATERIALS
The drain basins required for this contract shall be manufactured from PVC pipe stock, utilizing a thermoforming process to reform the pipe stock to the specified configuration.

The grates and frames furnished for all surface drainage inlets shall be ductile iron for structure sizes 8", 10", 12", 15", 18", 24", 30" and 36" and shall be made specifically for each basin so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet.

INSTALLATION
The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1, class 2, or class 3 material as defined in ASTM D2321.

Table with columns: DRAWN BY, DATE, MATERIAL, PROJECT NO. NAME, TITLE, DWG NO., SCALE, SHEET, 1 OF 1, REV. J. Includes Nyloplast logo and contact information.

1 ENGINEERED SURFACE DRAINAGE PRODUCTS SPECIFICATIONS

NTS

NYLOPLAST 24" DRAIN BASIN: 2824AG _X

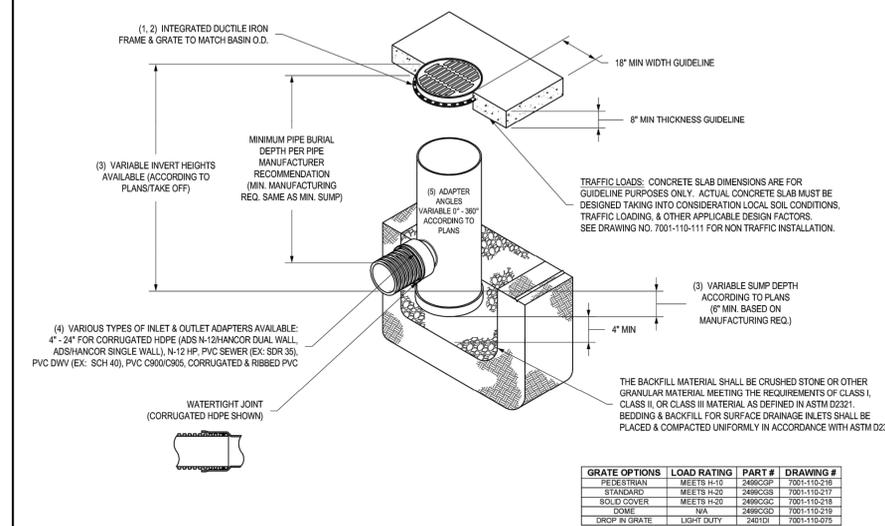


Table with columns: DRAWN BY, DATE, MATERIAL, PROJECT NO. NAME, TITLE, DWG NO., SCALE, SHEET, 1 OF 1, REV. E. Includes Nyloplast logo and contact information.

2 24" DRAIN BASIN QUICK SPEC INSTALLATION DETAIL

NTS

1099CGSF

APPROX. DRAIN AREA = 37.35 SQ IN
APPROX. WEIGHT = 15.40 LBS

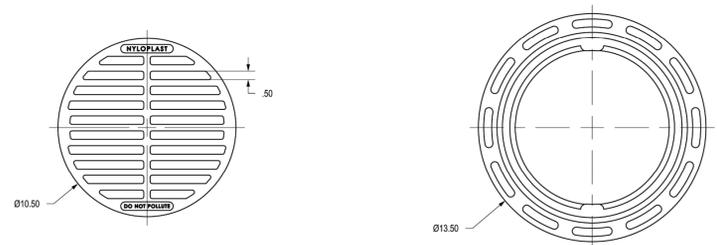
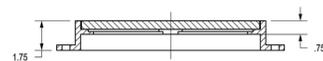


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3 10" STANDARD GRATE ASSEMBLY - TYPE B

NTS

1899CCGS

APPROX. DRAIN AREA = 116.72 SQ IN
APPROX. WEIGHT WITH FRAME = 68.50 LBS

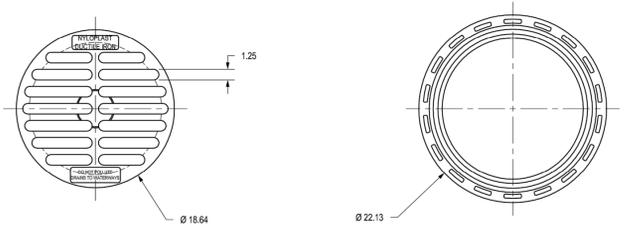
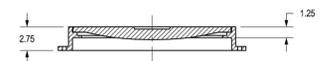


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4 18" STANDARD GRATE ASSEMBLY-TYPE C

NTS



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DRAWN BY: DMH
CHKD BY: ALM

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STORMWATER DETAILS

C-531

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1899CGD
APPROX. DRAIN AREA = 175.99 SQ IN
APPROX. WEIGHT = 32.00 LBS

SECTION A-A

DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
LOCKING DEVICE AVAILABLE UPON REQUEST

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DATE	3-8-06	PROJECT NO./NAME		
REVISED BY	EBC	TITLE	18 IN DOME GRATE	
DATE	3-24-11	DWG NO.	7001-110-215	REV D

1 18" DOME GRATE

NTS

3099CGRDF & 3099CGRFH
APPROX. GRATE DRAIN AREA = 232.87 SQ IN
*APPROX. WEIGHT WITH FRAME & HOOD = 344.00 LBS

SECTION A-A

DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
GRADE MEETS H-20 LOAD RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
LOCKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO. 7002-110-057

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DATE	04-10-06	PROJECT NO./NAME		
REVISED BY	CCA	TITLE	2 FT X 3 FT CURB INLET DIAGONAL GRATE ASSEMBLY	
DATE	09-05-13	DWG NO.	7002-110-046	REV D

2 2'x3' CURB INLET DIAGONAL GRATE ASSEMBLY

NTS

NYLOPLAST 12" INLINE DRAIN: 2712AG __ X

ADAPTER SIZE	B
4"	10.50
6"	11.50
8"	11.50
10"	11.25
12"	8.00

GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTAL	MEETS H-10	1296CSP	7001-110-202
STANDARD	MEETS H-20	1296CSB	7001-110-203
SOLID COVER	MEETS H-20	1296CSC	7001-110-204
PEDESTAL BRIDGE	N/A	1296CSPB	7001-110-205
DOME	N/A	1296CSD	7001-110-206
GROW-IN GRATE	LIGHT DUTY	1201DK	7001-110-021

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3 - DRAINAGE CONNECTION STUB, JOINT TIGHTNESS SHALL CONFORM TO ASTM D2212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER.
4 - DIMENSIONS ARE FOR REFERENCE ONLY. ACTUAL DIMENSIONS MAY VARY.
5 - DIMENSIONS ARE IN INCHES.
6 - SEE DRAWING NO. 7001-110-275 FOR ADS N-12 & HANCOR DUAL WALL BELL INFORMATION & DRAWING NO. 7001-110-384 FOR N-12 HP BELL INFORMATION.

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DATE	04-03-06	PROJECT NO./NAME		
REVISED BY	NMH	TITLE	12 IN INLINE DRAIN QUICK SPEC INSTALLATION DETAIL	
DATE	03-15-16	DWG NO.	7003-110-025	REV E

3 12" INLINE DRAIN QUICK SPEC INSTALLATION DETAIL

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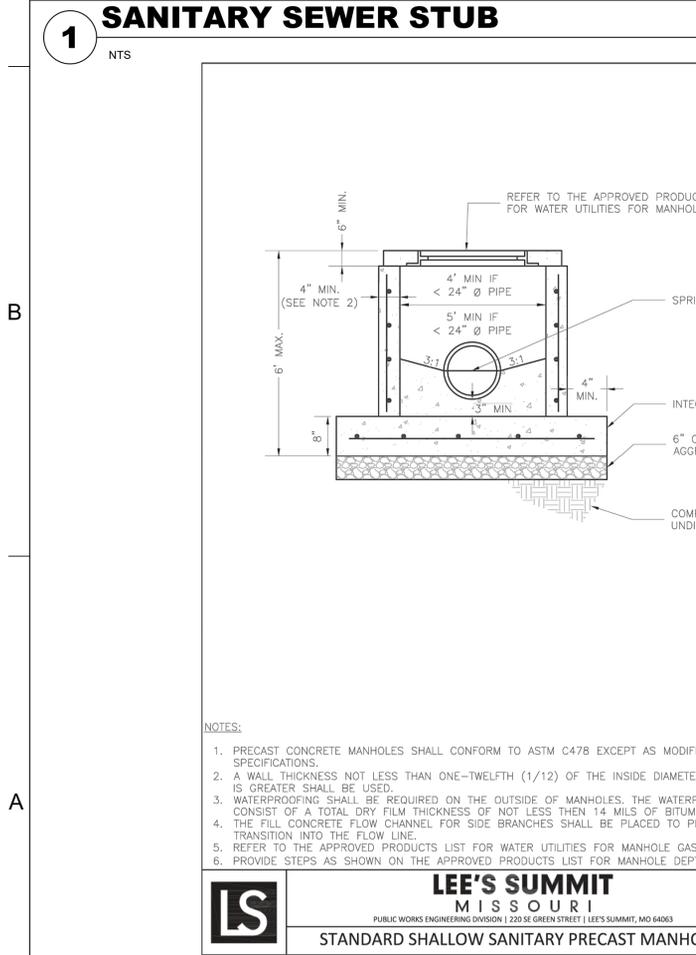
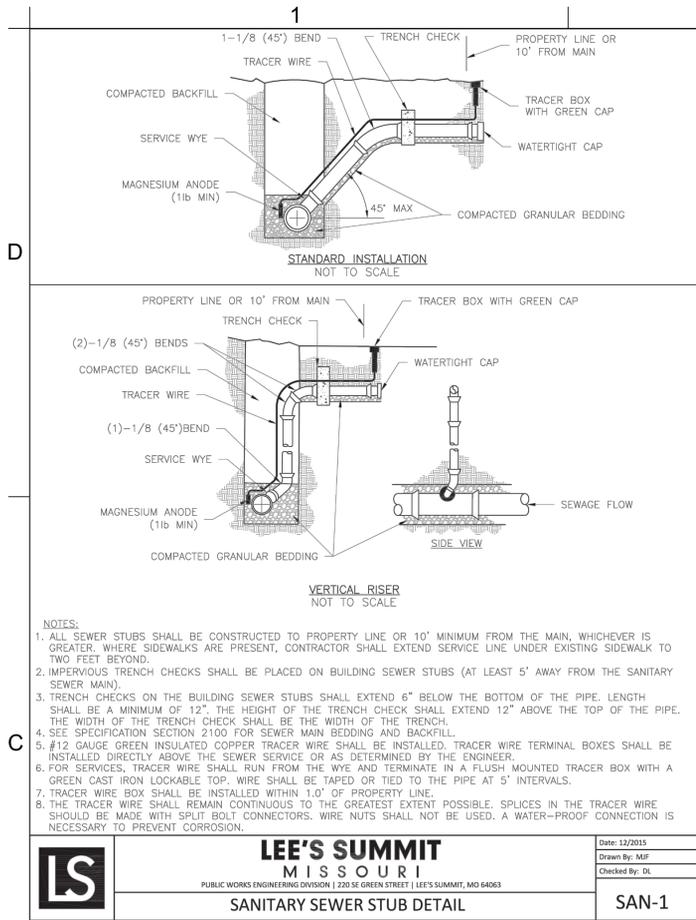
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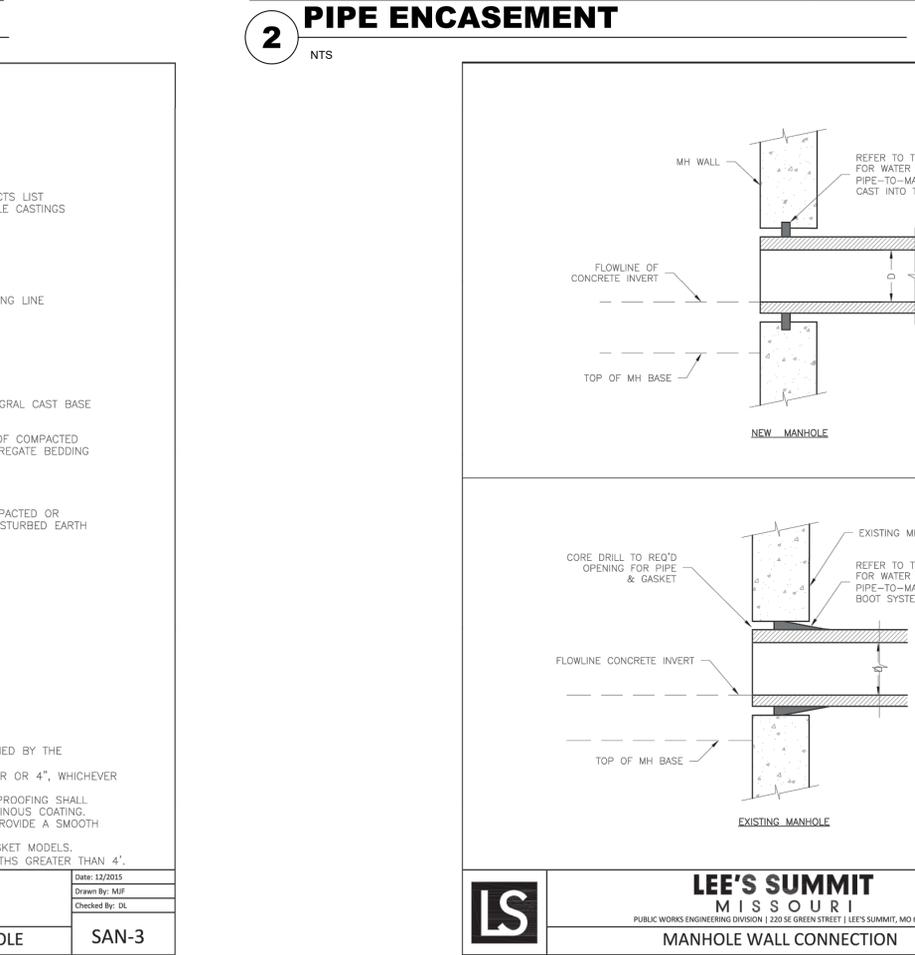
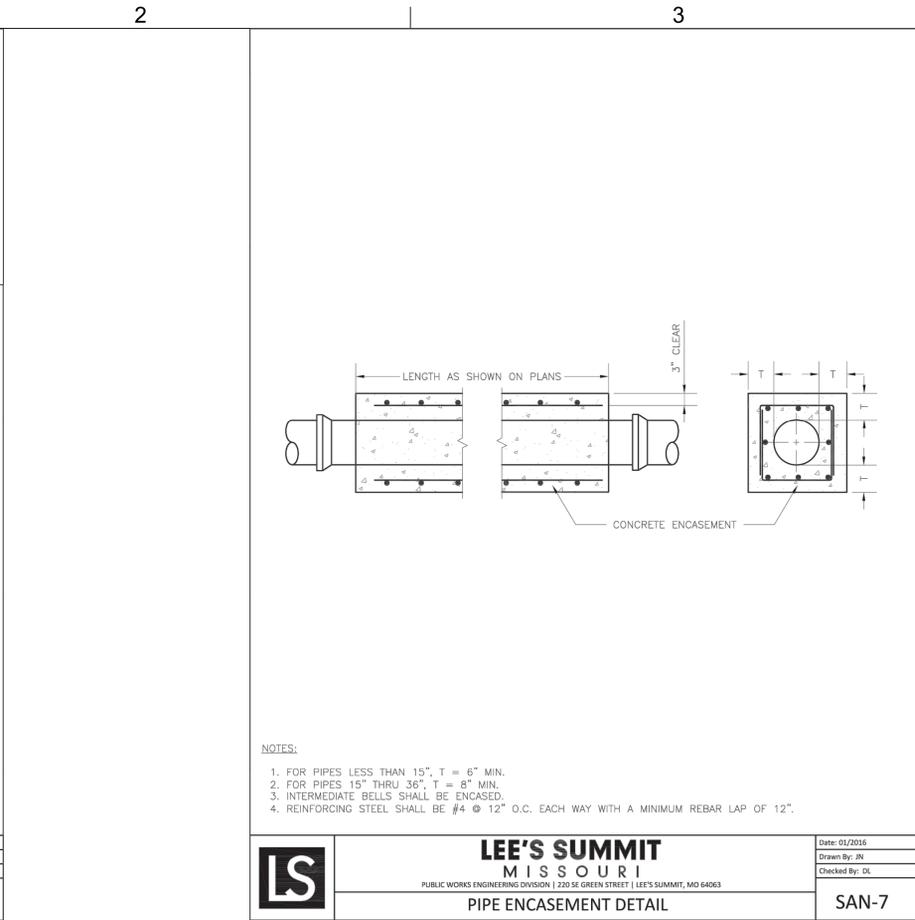
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STORMWATER DETAILS

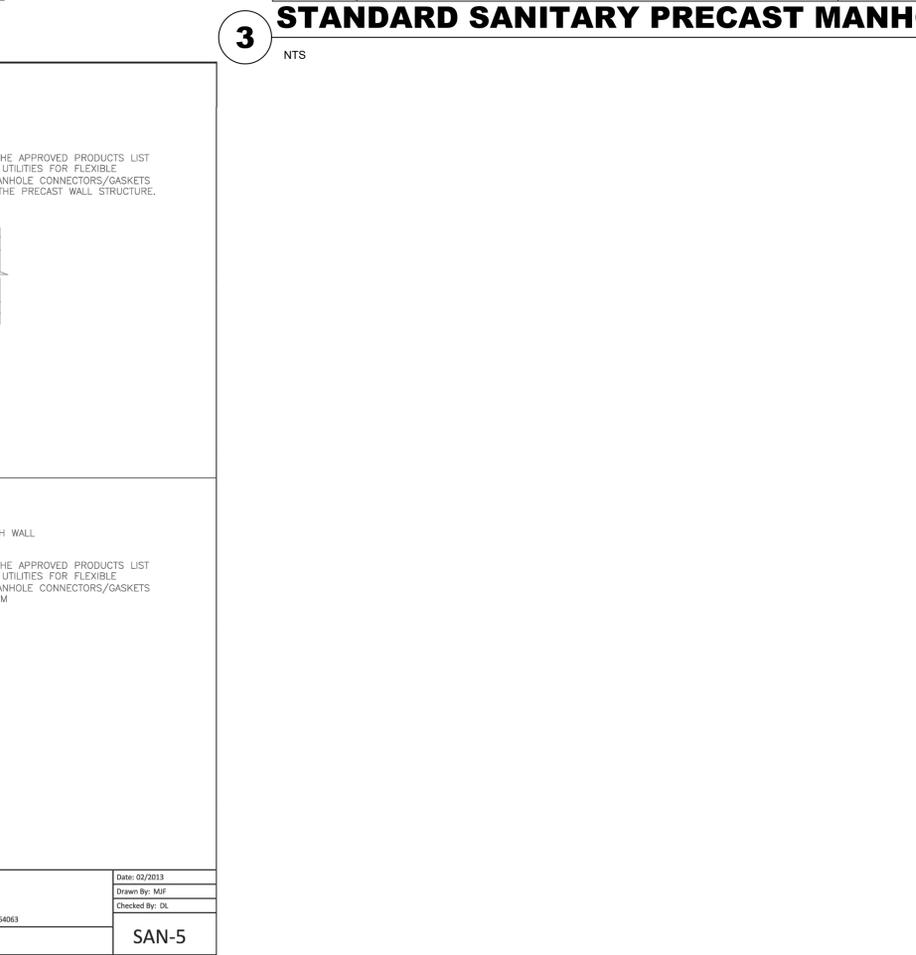
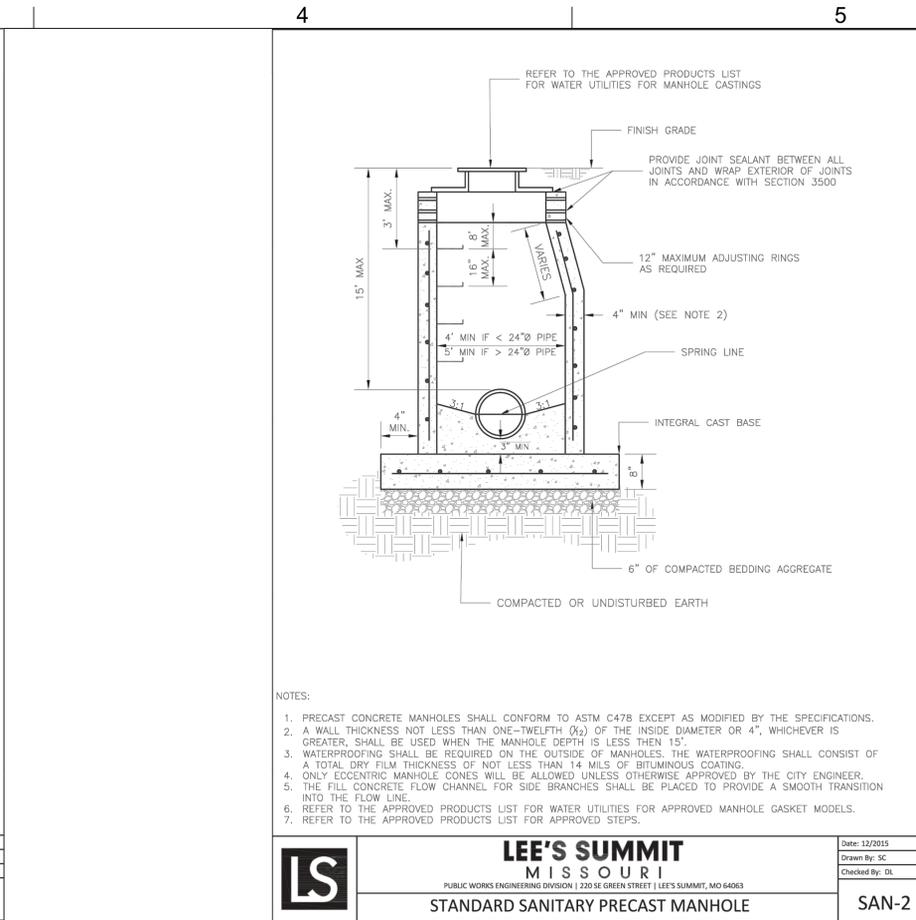
C-532



4 STANDARD SHALLOW SANITARY PRECAST MANHOLE



5 MANHOLE WALL CONNECTION



5 MANHOLE WALL CONNECTION

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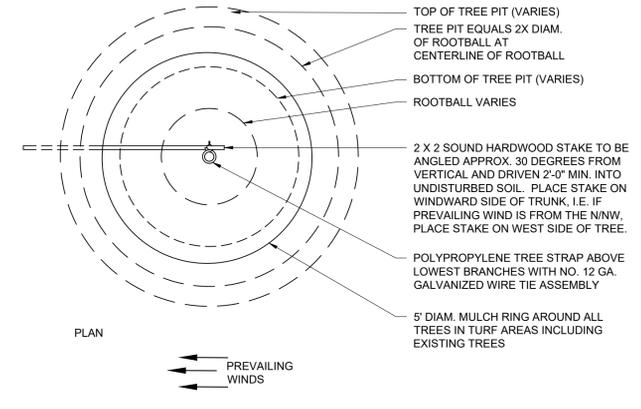
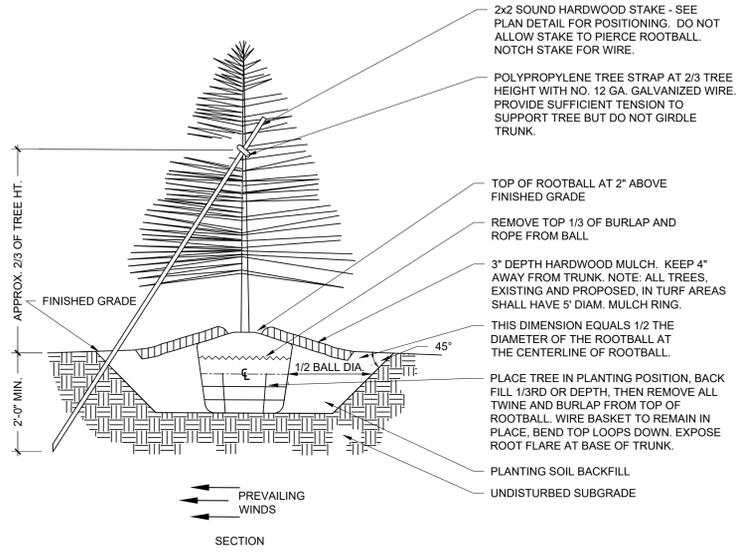
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SANITARY SEWER DETAILS

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GENERAL LANDSCAPE SITE NOTES

1. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL GIVE 48 HOURS ADVANCE NOTICE TO ALL THOSE COMPANIES/UTILITIES THAT HAVE FACILITIES IN THE NEAR VICINITY OF THE CONSTRUCTION TO BE PREFORMED.
2. CONTRACTOR SHALL VERIFY ALL PLANT COUNTS, QUANTITIES AND AREAS AND REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT PRIOR TO ORDERING OR INSTALLING MATERIALS SPECIFIED.
3. SEE PLANT SCHEDULE FOR PLANT LEGEND AND QUANTITIES.
4. SYMBOLS INDICATED ON THE PLAN TAKE PRIORITY OVER WRITTEN QUANTITIES AND LABELS.
5. PLANTS CALLED OUT IN PLAN ARE CONSIDERED IN CLUSTERS EVEN IF NOT ATTACHED BY CONNECTING LINES. CALLOUTS HAVE TOTAL COUNTS NEEDED.
6. CONTRACTOR SHALL MAINTAIN THE LANDSCAPE UNTIL SUBSTANTIAL COMPLETION. MAINTENANCE WORK SHALL CONSIST OF APPLYING WATER, WEEDING, AND FERTILIZING.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR DISEASE AND PEST CONTROL DURING THE MAINTENANCE PERIOD.
8. CONTRACTOR TO VERIFY WITH SOIL ANALYSIS, THE SOIL AMENDMENT NEEDED AND CONTACT THE LANDSCAPE ARCHITECT IF THERE ARE ANY INADEQUATE AMENITIES.
9. PLANT MATERIAL SHALL NOT BE DELIVERED TO THE SITE NOR INSTALLED WHEN TEMPERATURES ARE ABOVE 90°F OR BELOW 40°F AT THE TIME OF PLANTING AND FORECASTED FOR A PERIOD OF 2 WEEKS AFTER INSTALLATION.
10. CONTRACTOR TO PROVIDE A 1 YEAR WARRANTY ON ALL INSTALLED PLANTINGS FROM POINT OF SUBSTANTIAL COMPLETION.

PLANTING NOTES

1. ALL PLANT MATERIAL SHALL BE OF EXCELLENT QUALITY, FREE OF DISEASE AND INFESTATION, AND TRUE TO TYPE, VARIETY, SIZE SPECIFIED, AND FORM PER THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1, CURRENT VERSION), PUBLISHED BY THE AMERICAN NURSERYMEN'S ASSOCIATION.
2. PLANT MATERIAL SHALL BE PLANTED AND MAINTAINED TO ASNS SPECIFICATIONS.
3. CONTRACTOR SHALL VERIFY ALL LANDSCAPE MATERIAL QUANTITIES AND SHALL REPORT ANY DISCREPANCIES IMMEDIATELY TO THE LANDSCAPE ARCHITECT.
4. NO SUBSTITUTIONS FOR VARIETY OR CULTIVAR SHALL BE ACCEPTED WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM LANDSCAPE ARCHITECT.
5. ALL TREES AND SHRUBS SHALL BE LAID OUT IN A UNIFORM AND CONSISTENT PATTERN, FOLLOWING THE LANDSCAPE PLAN ACCURATELY, PAYING ATTENTION TO EVEN SPACING IN THE ROW OR COVERAGE AREA OF THE INDIVIDUAL SPECIES AND HOW IT IS BEING USED.
6. ALL PLANTING BEDS ABUTTING LAWN AREAS SHALL HAVE STEEL EDGING (COLMET 1014 OR APPROVED EQUAL) INSTALLED AS THE BED EDGE RESTRAINT. NO STEEL EDGING SHALL BE INSTALLED BETWEEN MULCH AND PAVEMENT.
7. ALL PLANTINGS SHALL BE THOROUGHLY WATERED IN WITH A GARDEN HOSE, TWICE, THE SAME DAY AS INSTALLATION TO ELIMINATE AIR POKETS IN THE BACKFILL.
8. NO PLANTINGS SHALL BE PLACED CLOSER THAN 3' FROM THE BACK OF THE CURB TO ALLOW FOR VEHICLE BUMPER OVERHANG.
9. PROPOSED TREES SHALL NOT BE PLACED OVER EXISTING OR PROPOSED UTILITY SERVICE LINES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND UTILITY LOCATIONS AND HAVE THEM MARKED DURING TREE PLANTING OPERATIONS. IF UTILITY IS DAMAGED DURING PLANTING, CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE GENERAL CONTRACTOR AND OWNER OF UTILITY AND PAYING FOR REPAIR OF THE DAMAGED UTILITY.
10. ALL PLANTING BEDS WILL HAVE 3-INCHES OF SHREDDED BROWN HARDWOOD MULCH UNLESS OTHERWISE SPECIFIED.

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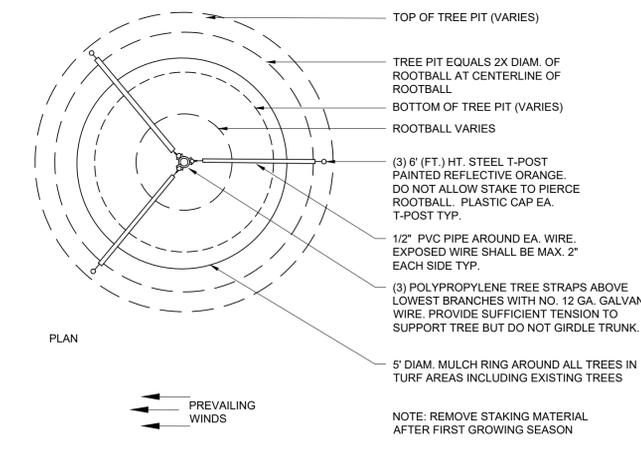
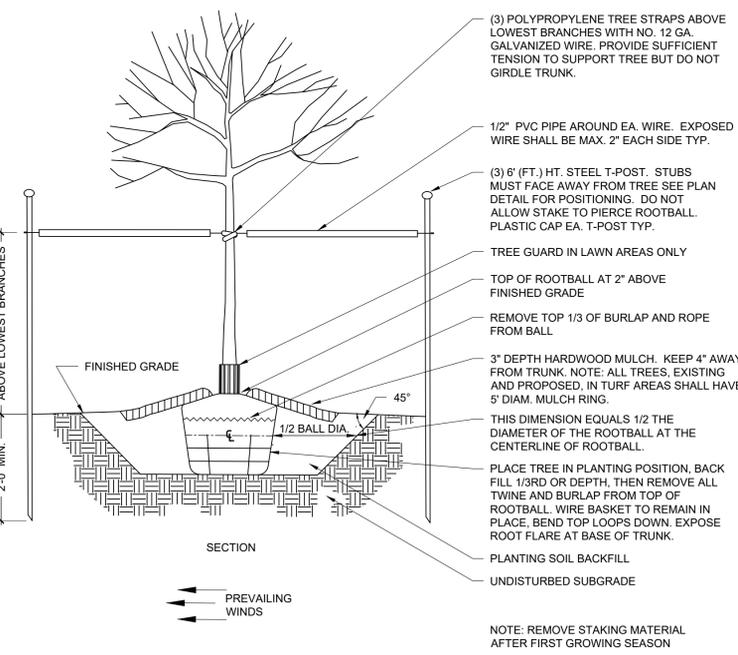
1 EVERGREEN TREE PLANTING

N.T.S.

2 EVERGREEN TREE STAKING

N.T.S.

C



PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	SIZE	
	AA	2	Acer rubrum 'Armstrong'	Armstrong Red Maple	B & B	3"	
	GA	1	Ginkgo biloba 'Autumn Gold'™	Autumn Gold Maidenhair Tree	B & B	3"	
	MA	5	Malus x 'Adirondack'	Adirondack Crabapple	B & B	3"	
	NW	7	Nyssa sylvatica 'Wildfire'	Black Gum	B & B	3"	
	ZM	6	Zelkova serrata 'Musashino'	Musashino Sawleaf Zelkova	B & B	3"	
CONIFERS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	SIZE	
	PB	2	Picea pungens 'Baby Blue'	Baby Blue Colorado Spruce	8' HL		
	TS	18	Thuja occidentalis 'Smaragd'	Emerald Green Arborvitae	8' HL		
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	SIZE	SPACING
	Ca	17	Cornus sericea 'Artic Fire'	Artic Fire Dogwood	5 gal	Pot	48" o.c.
	Ec	13	Euonymus alatus 'Compactus'	Compact Burning Bush	5 gal	Pot	72" o.c.
	Ho	44	Hemerocallis x 'Stella de Oro'	Stella de Oro Daylily	Quart	Pot	18" o.c.
	Hf	25	Hosta x 'First Frost'	First Frost Hosta	2 gal	Pot	30" o.c.
	Il	10	Itea virginica 'Little Henry'™	Virginia Sweetpire	2 gal	Pot	36" o.c.
	Pi	6	Perovskia atriplicifolia 'Little Spire'™	Little Spire Russian Sage	2 gal	Pot	24" o.c.
	Rr	19	Rosa x 'Knockout'™	Rose	2 gal	Pot	48" o.c.
GRASSES	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	SIZE	SPACING
	Ck	21	Calamagrostis x acutiflora 'Karl Foerster'	Feather Reed Grass	3 gal.	Pot	36" o.c.
	Fe	28	Festuca glauca 'Elijah Blue'	Elijah Blue Fescue	1 gal.	Pot	18" o.c.
	Sp	57	Schizachyrium scoparium 'Prairie Munchkin'	Prairie Munchkin Little Bluestem	2 gal	Pot	24" o.c.
	Sh	133	Sporobolus heterolepis	Prairie Dropseed	2 gal	Pot	30" o.c.
EVERGREEN	CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT.	SIZE	SPACING
	Ji	11	Juniperus chinensis 'Gold Lace'	Gold Lace Juniper	5 gal	Pot	60" o.c.
	Ja	8	Juniperus horizontalis 'Andorra'	Andorra Juniper	2 gal	Pot	48" o.c.
SOD/SEED	CODE	QTY	BOTANICAL NAME	COMMON NAME	TYPE		
	Fa	13,571 sf	Festuca arundinacea 90% Fescue, 10% Bluegrass Mix	Tall Fescue	sod		

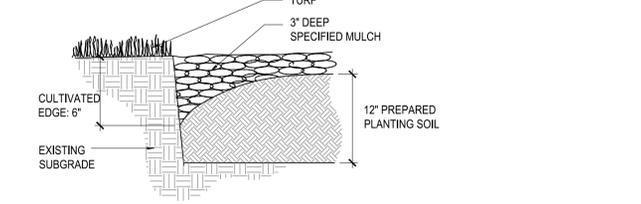
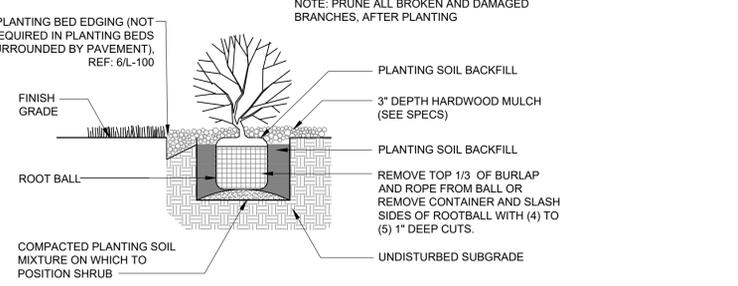
3 DECIDUOUS TREE PLANTING

N.T.S.

4 DECIDUOUS TREE STAKING

N.T.S.

A



5 SHRUB PLANTING

N.T.S.

6 CULTIVATED EDGE

N.T.S.

7 LANDSCAPE SCHEDULE

N.T.S.

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 CHKD BY: CDW

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LANDSCAPE SCHEDULE

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