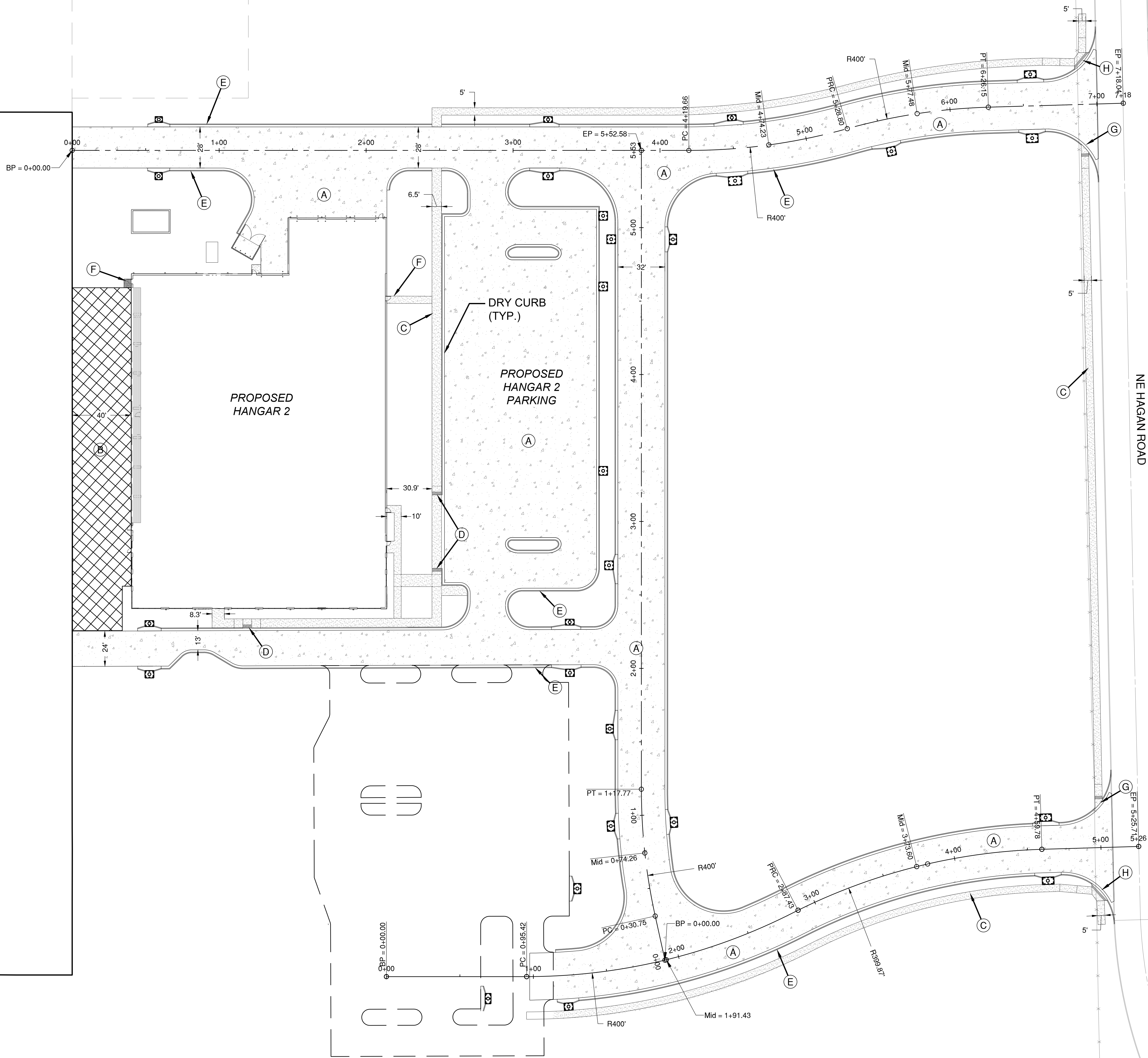
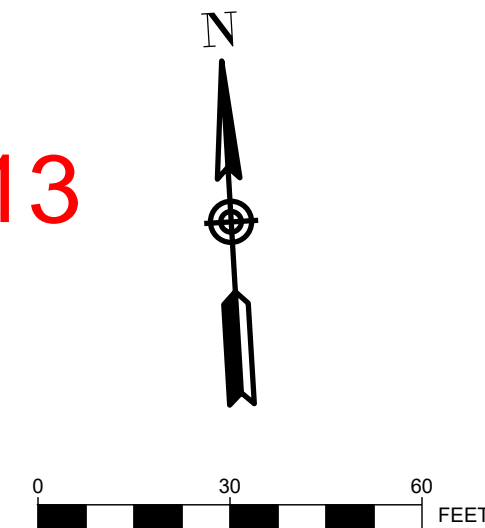


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Date: Thursday, August 29, 2024 2:44:26 PM



PL2023269  
PRCOM20235113



- PLAN KEYNOTES**
- (A) PROPOSED 8" CONCRETE PAVEMENT - SEE TYPICAL SECTIONS
  - (B) PROPOSED 11" PCC APRON - SEE SHEET TYPICAL SECTIONS
  - (C) PCC 4" SIDEWALK - SEE SHEET TYPICAL SECTIONS
  - (D) ADA SIDEWALK RAMP AND FLUSH CURB WITH 2" ADA TRUNCATED DOME WARNING STRIP (TYP) - SEE SITE DETAILS
  - (E) TYPE CG-1 CONCRETE CURB AND GUTTER - SEE TYPICAL SECTIONS
  - (F) PROPOSED DOOR STOOPS - SEE ARCHITECTURAL PLANS FOR DETAILS
  - (G) TYPE A ADA SIDEWALK/SHARED-USE RAMP - SEE SITE DETAILS
  - (H) TYPE B ADA SIDEWALK/SHARED-USE RAMP - SEE SITE DETAILS

- PAVING PLAN GENERAL NOTES:**
- ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
  - ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY / STATE / FEDERAL / COUNTY REGULATIONS, CODES AND O.S.H.A. REGULATIONS.
  - THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THIS DRAWING WITH OTHER DRAWINGS THAT CONTAIN DIMENSIONS TO ENSURE THAT THE PLAN DIMENSIONS ARE CONSISTENT WITH THE COORDINATES PRESENTED ON THE PLAN. FOLLOWING STAKE-OUT OF ANY FACILITY BY COORDINATES, THE CONTRACTOR SHALL CHECK THAT PLAN DIMENSIONS ARE ACHIEVED PRIOR TO CONSTRUCTION.
  - CONTRACTOR SHALL PROVIDE FULL DEPTH SAWCUT AT ALL REMOVAL LIMITS AS REQUIRED TO PROVIDE A CLEAN, NEAT EDGE TO EXISTING PAVEMENT, CURB & GUTTER, SIDEWALKS, ETC. THAT WILL REMAIN.
  - CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS DOORS AND ENCLOSURES.
  - CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL WORK WITH WORK BY OTHERS INCLUDING UTILITY COMPANIES.

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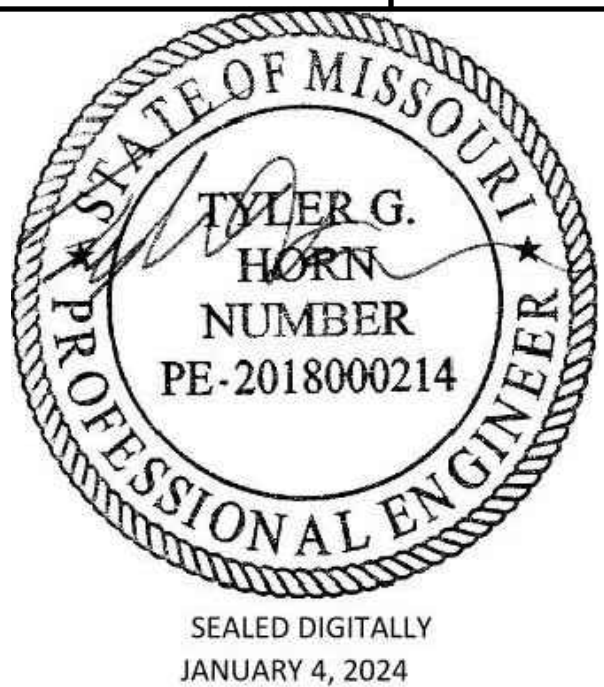
1627 MAIN STREET, #100  
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1301 BURLINGTON STREET  
NORTH KANSAS CITY, MO 64116

**LEE'S SUMMIT MUNICIPAL AIRPORT  
LEE'S SUMMIT, MISSOURI**

**EASTSIDE DEVELOPMENT  
CITY PROJECT NO. - 47732472**



LEE'S SUMMIT MUNICIPAL AIRPORT  
LEE'S SUMMIT, MO

08/13/24 REV 4

MARK DATE DESCRIPTION

PROJECT NO: 47732472  
CAD DWG FILE: PAVING PLAN  
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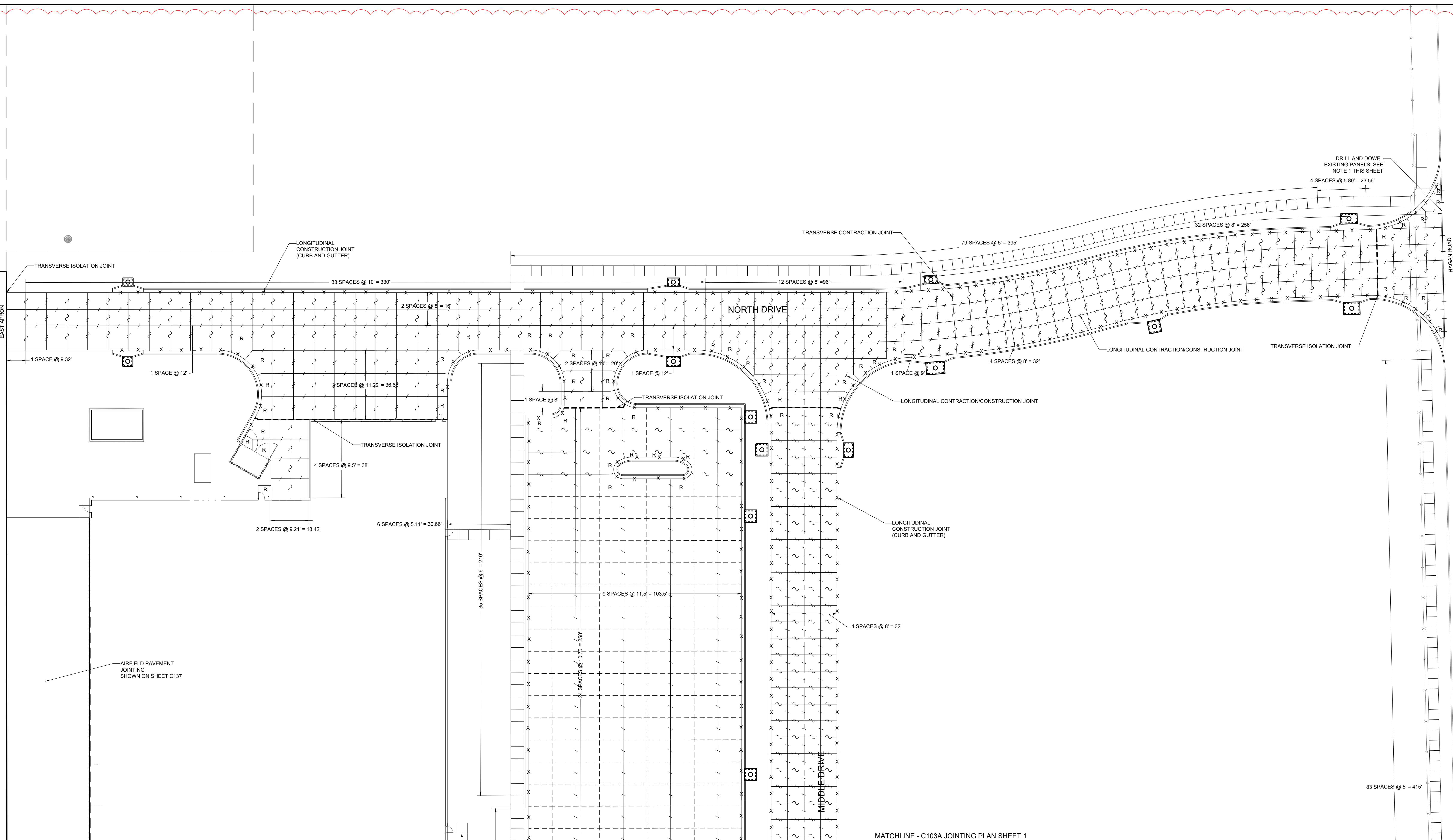
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**C103**

SHEET 010 OF 133



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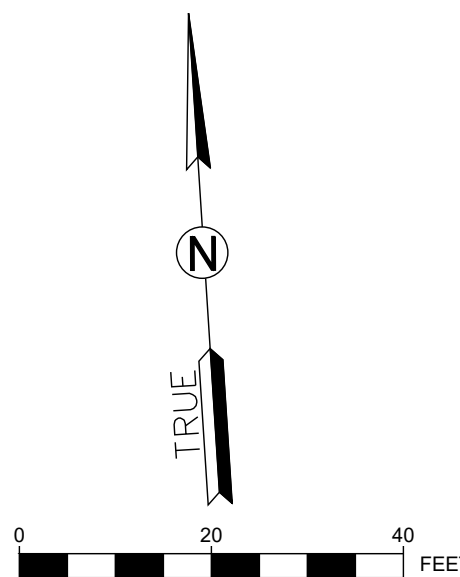
#### JOINTING NOTES

1. DRILL AND BOND DOWEL BARS INTO EXISTING PAVEMENT PRIOR TO PLACEMENT OF NEW PCC. MATCH EXISTING JOINTING.
2. LONGITUDINAL CONSTRUCTION JOINT NOT NEEDED IF CURB AND GUTTER IS MONOLITHICALLY POURED.
3. L-SHAPED BARS ARE ACCEPTABLE FOR CONSTRUCTION JOINTS.
4. JOINTS ARE PRESENTED BASED ON AN EXPECTED PAVING PLAN FOR THIS PROJECT. CONTRACTOR MAY ELECT TO PAVE THE SITE DIFFERENTLY, HOWEVER, CONTRACTOR MUST PREPARE AND SUBMIT PAVING PLAN WITH AN ALTERNATIVE JOINTING PLAN TO ENGINEER FOR REVIEW. PAVING PLAN AND ALTERNATIVE JOINTING PLAN SHALL BE SUBMITTED AT LEAST 10 CALENDAR DAYS IN ADVANCE OF ANY SCHEDULED PAVES. NO ADDITIONAL COSTS TO THE CONTRACT SHALL BE INCURRED BY THE OWNER FOR THE PREPARATION OF AN ALTERNATIVE JOINTING PLAN. NO ADDITIONAL COSTS TO THE CONTRACT SHALL BE INCURRED BY THE OWNER IF AN ALTERNATIVE JOINTING PLAN IS ACCEPTED.
5. SEE SHEETS C138B FOR JOINTING DETAILS.
6. SEE SHEET C138 FOR ODD SHAPE PANEL REINFORCEMENT.

#### LEGEND

- TRANSVERSE ISOLATION JOINT
- TRANSVERSE CONSTRUCTION JOINT
- DUMMY CONTRACTION JOINT
- LONGITUDINAL CONSTRUCTION JOINT (CURB AND GUTTER)
- LONGITUDINAL CONTRACTION/CONSTRUCTION JOINT
- TRANSVERSE CONTRACTION JOINT
- PANEL WITH THICKENED EDGE
- ODD-SHAPED PANEL WITH MESH REINFORCEMENT

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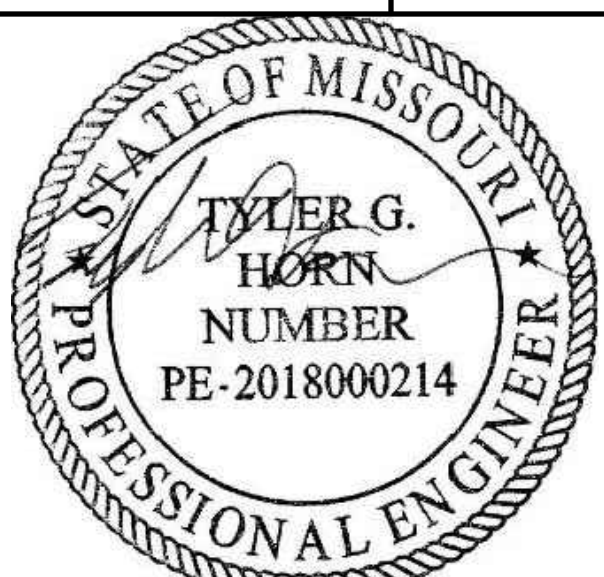


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**LEE'S SUMMIT MUNICIPAL AIRPORT**  
**LEE'S SUMMIT, MISSOURI**  
**EASTSIDE DEVELOPMENT**  
**CITY PROJECT NO. - 47732472**



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LEE'S SUMMIT MUNICIPAL AIRPORT  
LEE'S SUMMIT, MO

08/13/24 REV 4

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CAD DWG FILE: JOINTING PLAN 2.0

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SHEET TITLE

**PAVEMENT JOINTING**  
**PLAN SHEET 1 OF 2**

**C103A**

SHEET 014 OF 133





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C103B

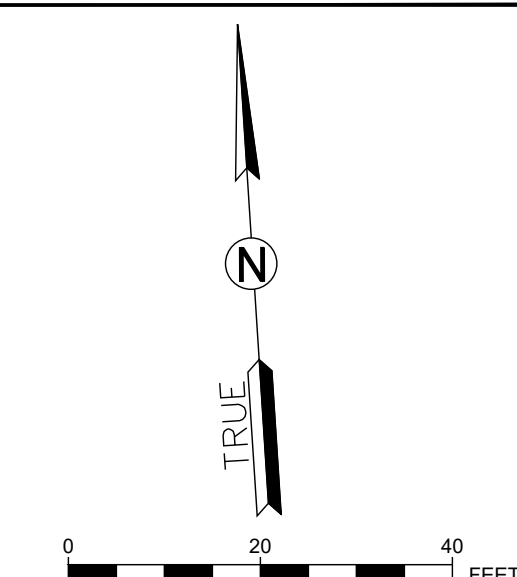
SHEET .... OF 133



- |   |  |
|---|--|
|  | TRANSVERSE ISOLATION JOINT                           |
|  | TRANSVERSE CONSTRUCTION JOINT                        |
|  | DUMMY CONTRACTION JOINT                              |
|  | LONGITUDINAL CONSTRUCTION JOINT<br>(CURB AND GUTTER) |
|  | LONGITUDINAL CONTRACTION/CONSTRUCTION JOINT          |
|  | TRANSVERSE CONTRACTION JOINT                         |
|  | PANEL WITH THICKENED EDGE                            |
|  | ODD-SHAPED PANEL WITH MESH REINFORCEMENT             |

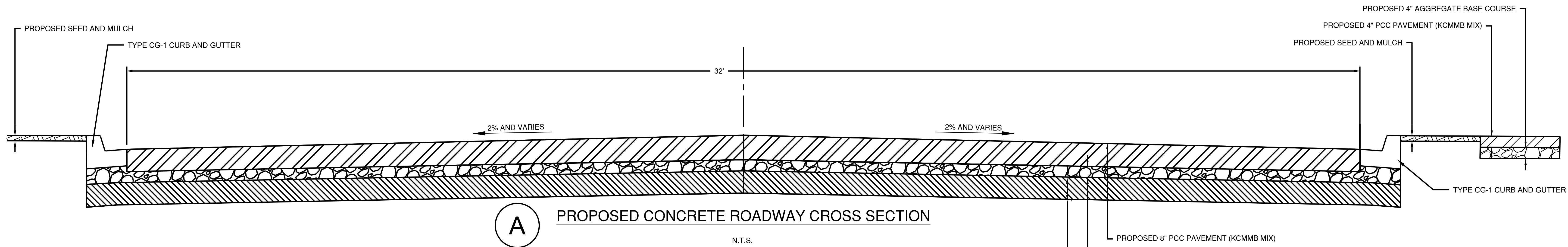
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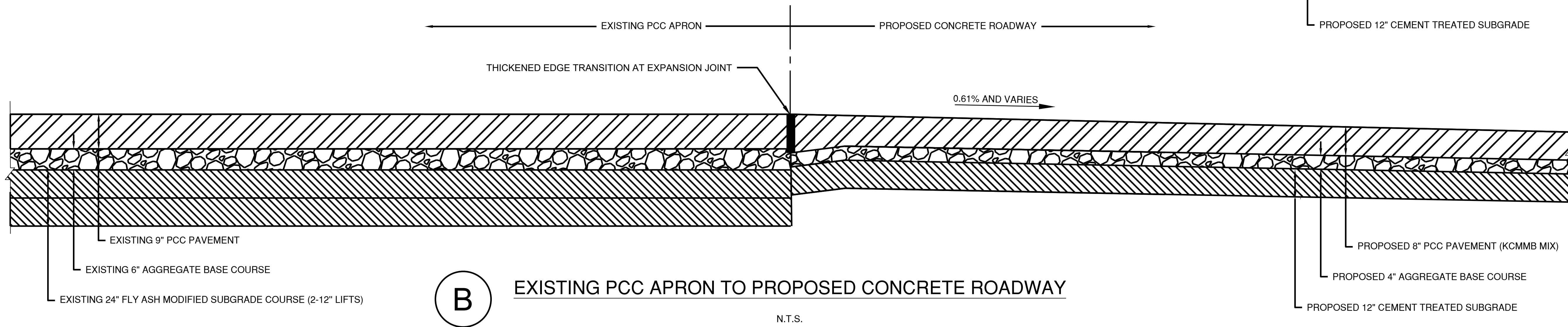




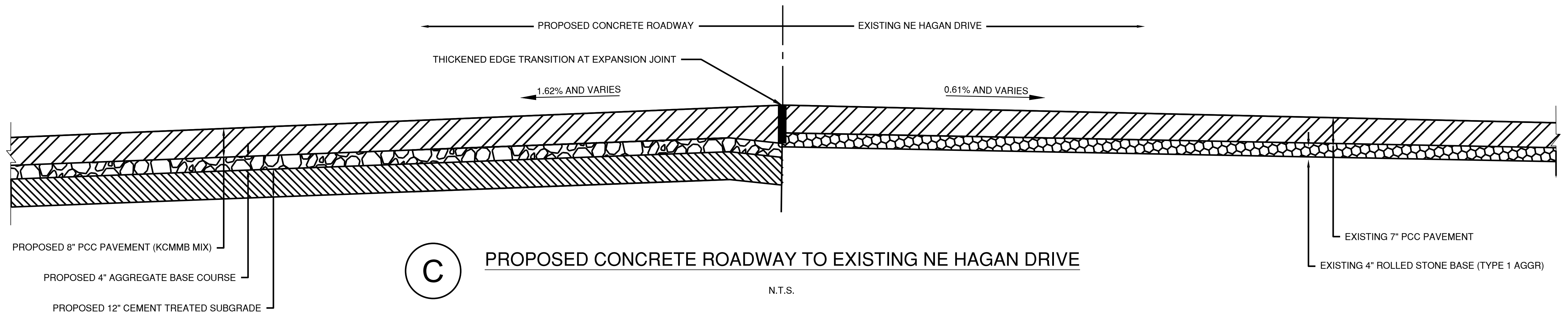
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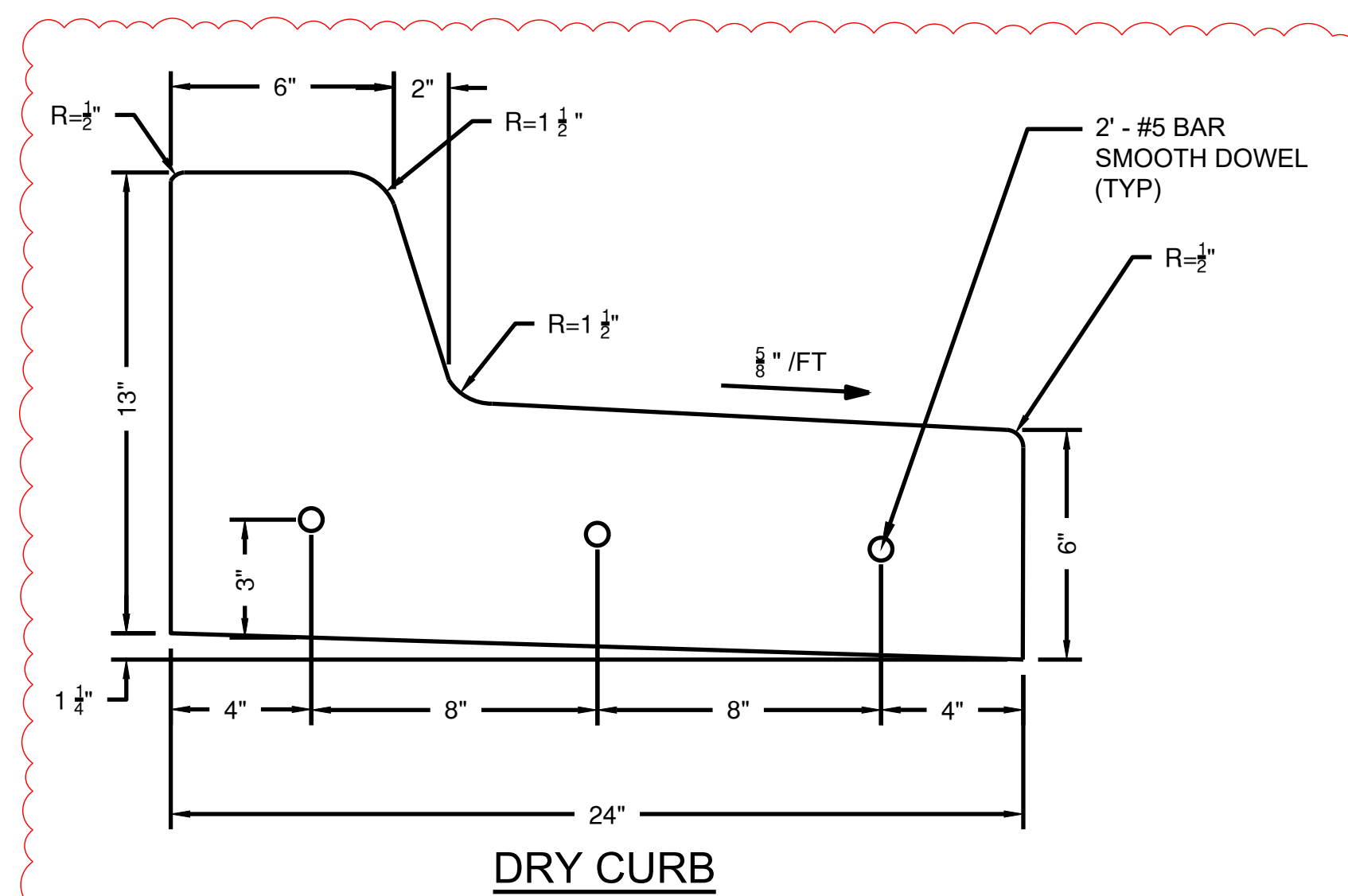
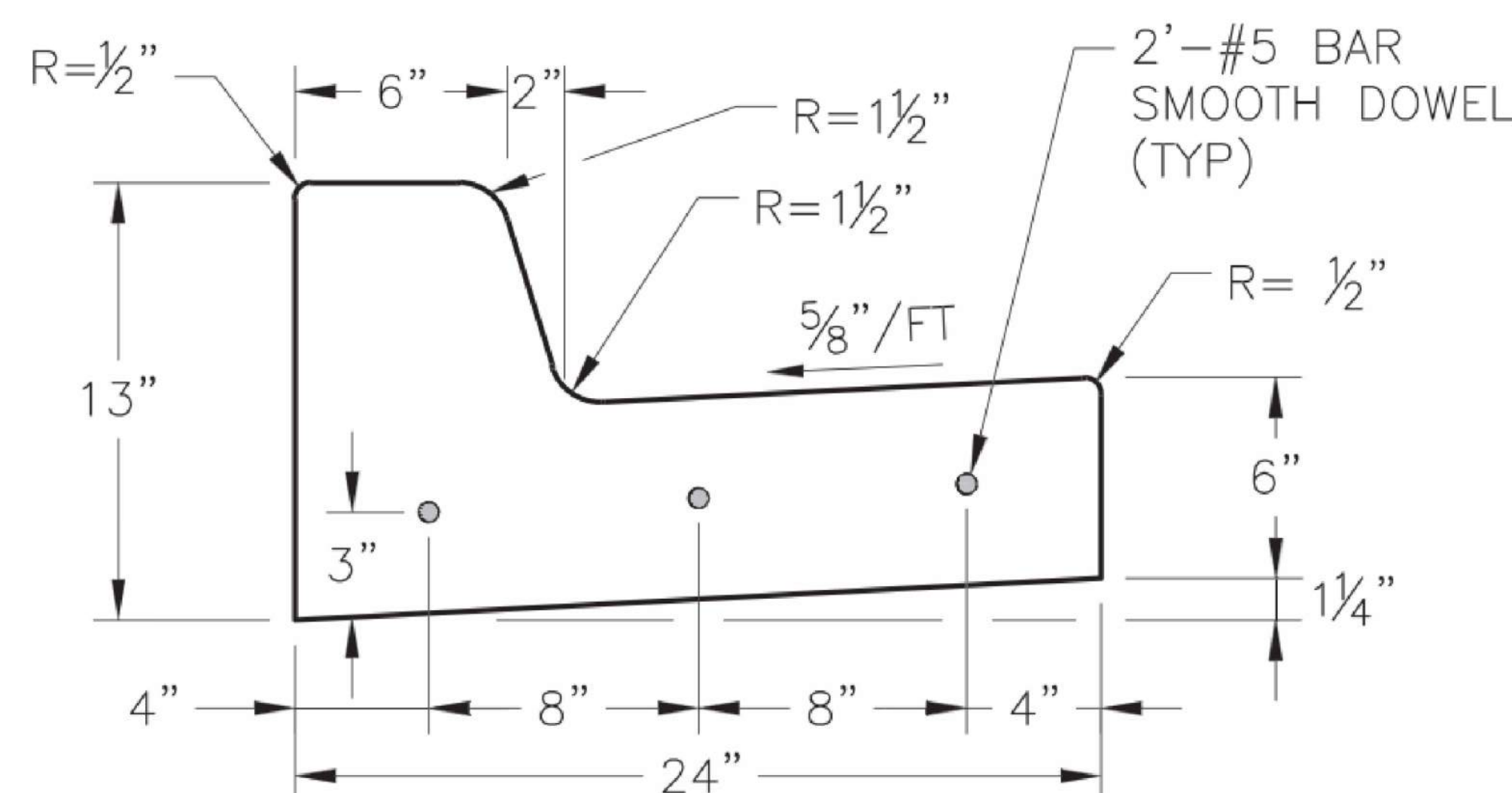
**A** PROPOSED CONCRETE ROADWAY CROSS SECTION  
N.T.S.



**B** EXISTING PCC APRON TO PROPOSED CONCRETE ROADWAY  
N.T.S.



**C** PROPOSED CONCRETE ROADWAY TO EXISTING NE HAGAN DRIVE  
N.T.S.



DRY CURB

NOTES:

1.  $\frac{1}{2}$ " EXPANSION JOINTS WITH 2" DOWELS SHALL BE PLACED AT RADIUS POINTS AND AT 150' INTERVALS. THESE DOWELS SHALL BE GREASED AND WRAPPED ON ONE END WITH EXPANSION TUBES.
2. 1" DEEP CONTRACTION JOINTS SHALL BE INSTALLED TO MATCH TRANSVERSE JOINTS OF THE ADJACENT PAVEMENT. THESE JOINTS SHALL PASS ACROSS THE ENTIRE CURB SECTION.
3. FIX DOWELS WITH BAR SUPPORTS
4. CONCRETE SHALL CONFORM TO KCMMB 4K UNLESS OTHERWISE SPECIFIED IN THE PLANS AND PROJECT MANUAL. SEE SECTION 02290 - CURBING.
5. AT CENTER MARKS - USE  $\frac{3}{8}$ "  $\varnothing$  X 2' SMOOTH DOWELS AT LOCATIONS SHOWN ON EACH TYPICAL SECTION.
6. DEPTH OF CURB SHALL BE MINIMUM OF 8" THRU THE HANDICAP ACCESS RAMP.
7. JOINT NOT NEEDED IF CURB & GUTTER IS MONOLITHICALLY POURED
8. FOR DRY CURBS, GUTTERS WILL BE SLOPED TO DRAIN WATER AWAY FROM THE FACE OF CURB. GRADE WILL BE THE SAME AS REGULAR CURB.

\* DRAWING COURTESY OF KANSAS CITY, MO PUBLIC WORKS DEPARTMENT, ENGINEERING DIVISION: STANDARD DRAWING NUMBER C

**D** STRAIGHT BACK CURB AND GUTTER (TYPE CG-1)  
N.T.S.

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LEE'S SUMMIT MUNICIPAL AIRPORT  
LEE'S SUMMIT, MISSOURI  
EASTSIDE DEVELOPMENT  
CITY PROJECT NO. - 47732472



LEE'S SUMMIT MUNICIPAL AIRPORT  
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION
08/13/24	REV 4	
PROJECT NO: 47732472		
CAD DWG FILE: TYPICAL SECTIONS		
DESIGNED BY: WLC		
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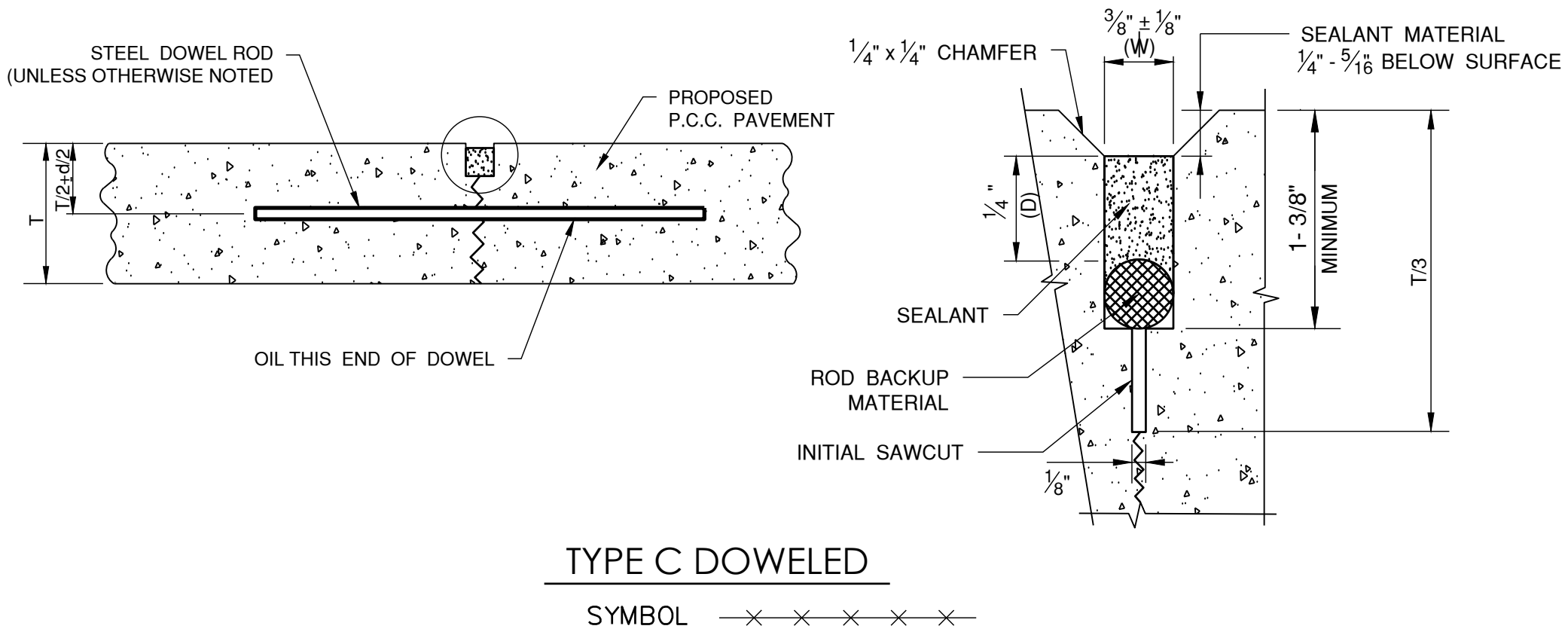
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C127

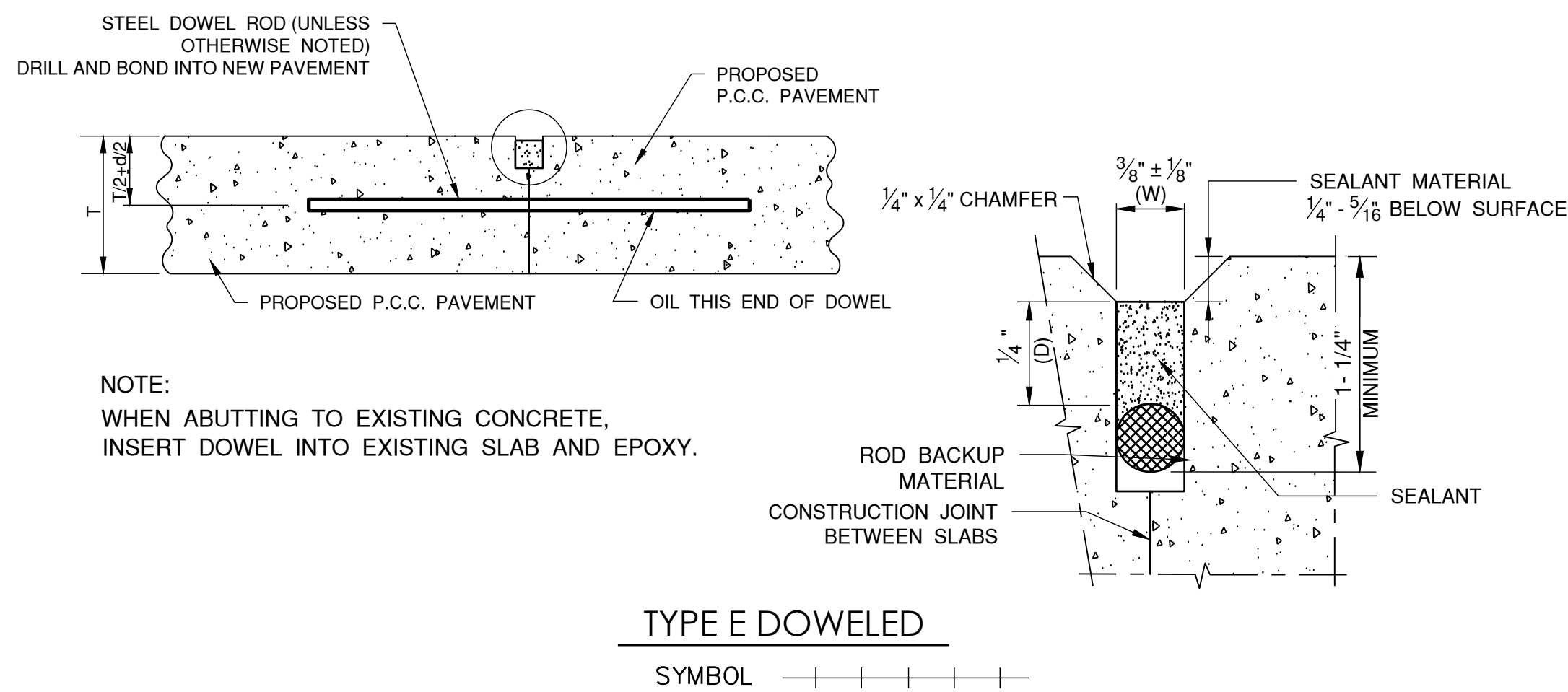
SHEET 040 OF 133



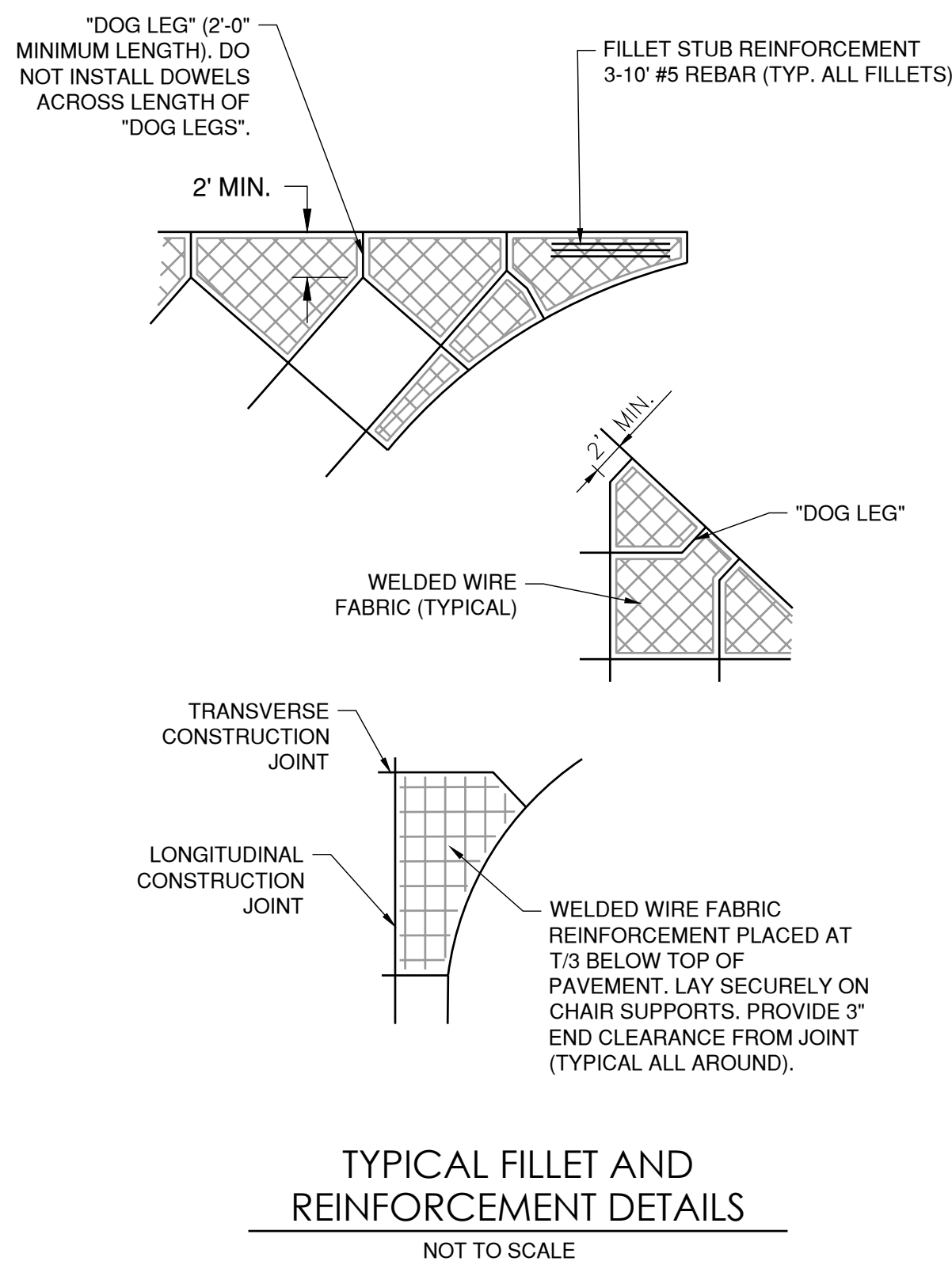
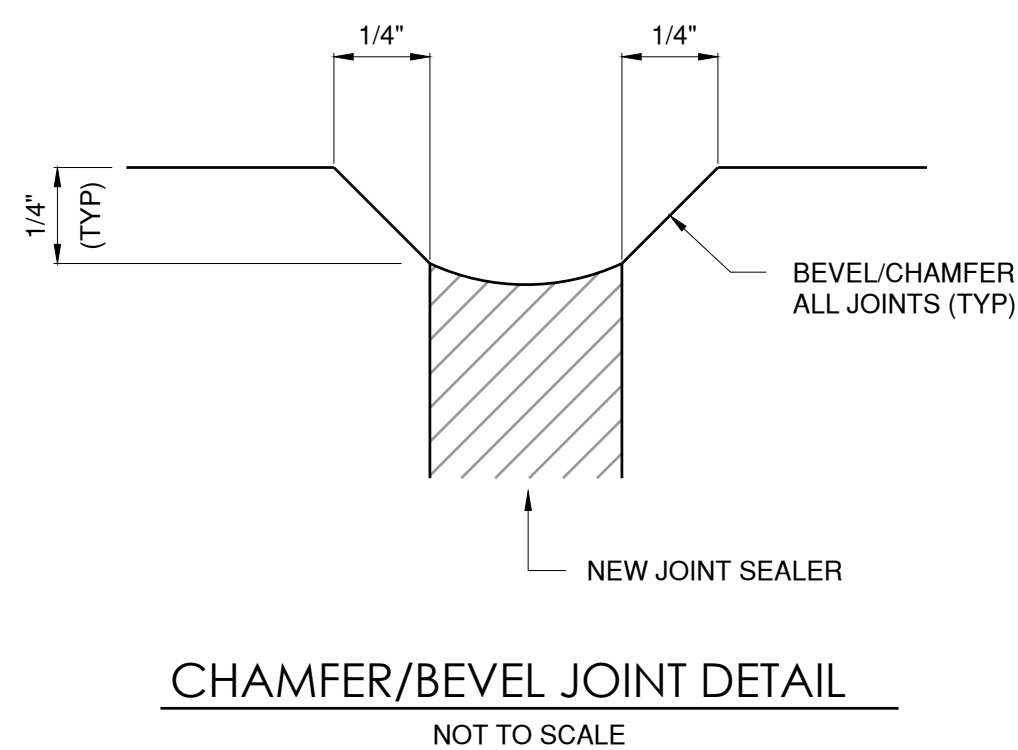
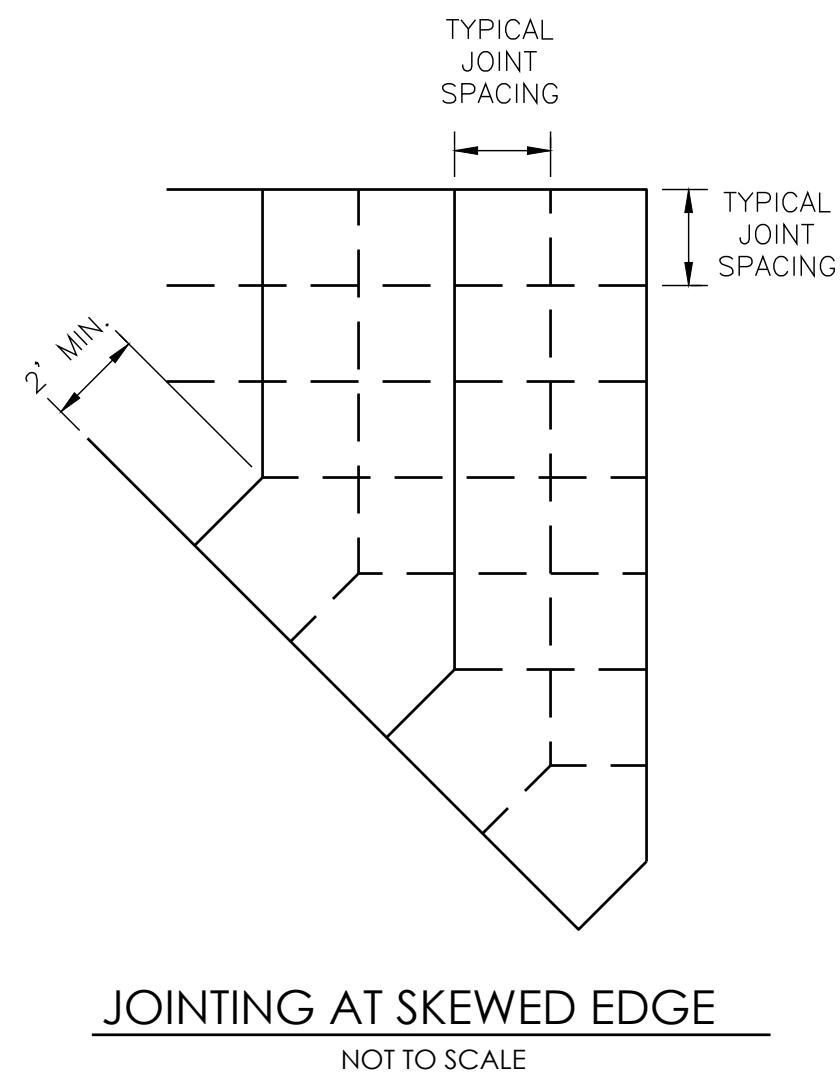
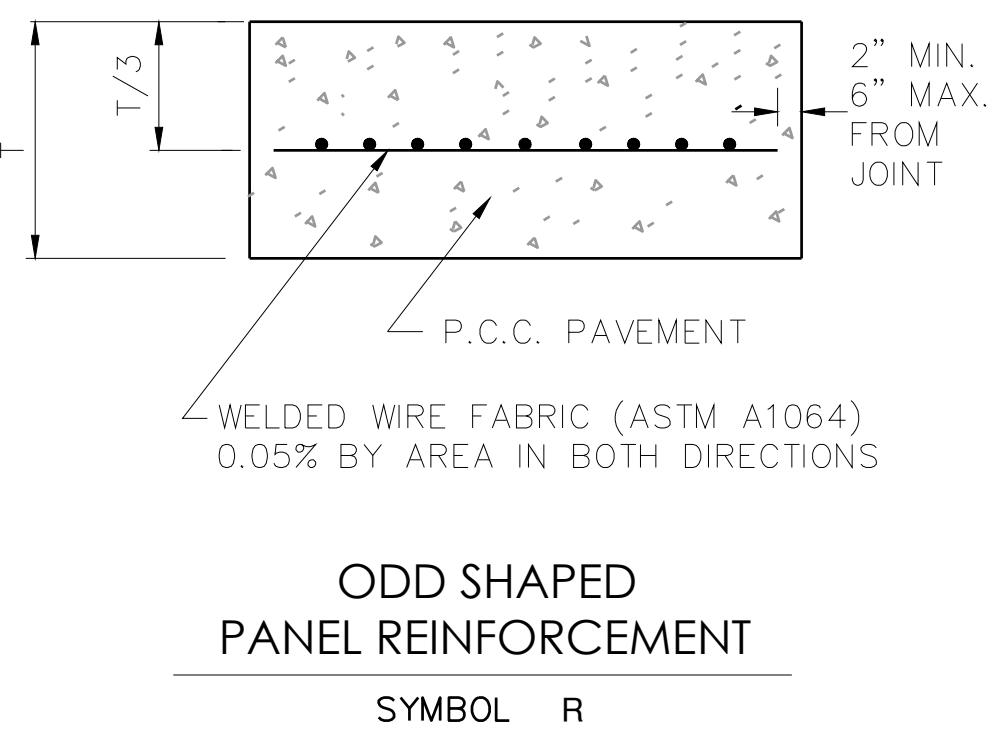
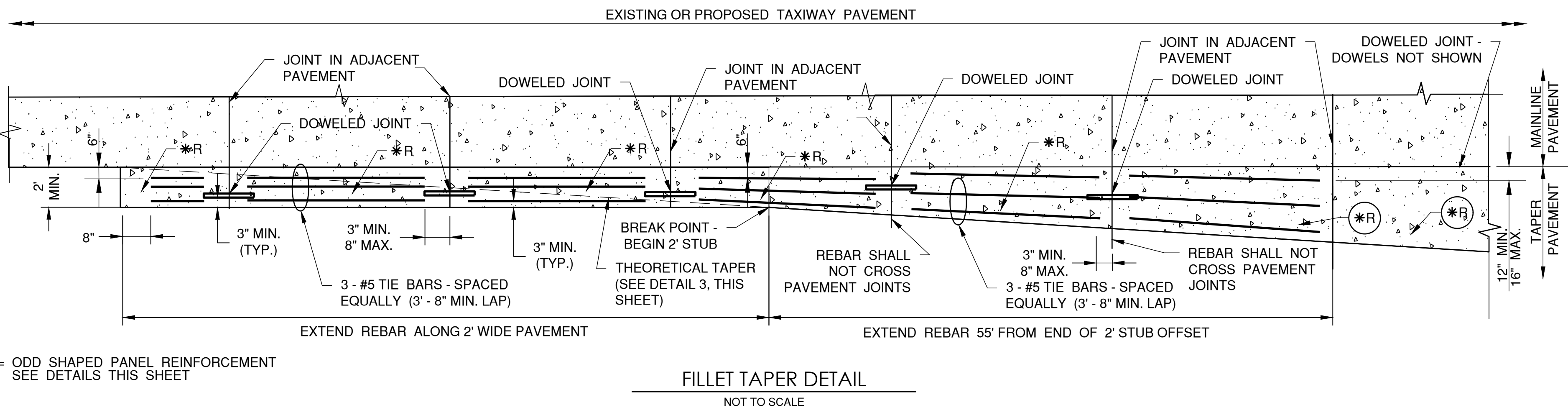
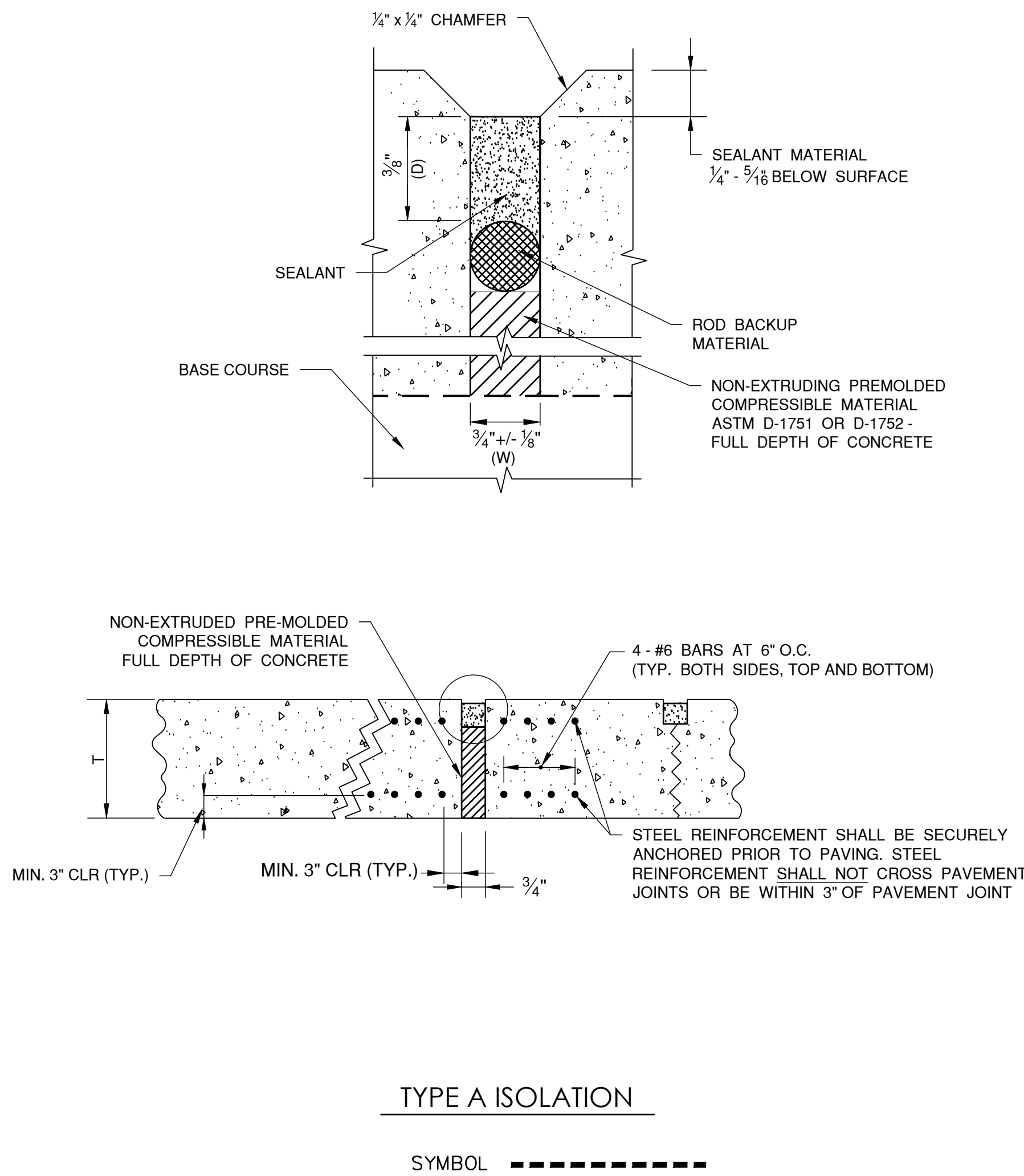
CONTRACTION JOINTS



CONSTRUCTION JOINTS



EXPANSION JOINTS



DIMENSION TABLES

TABLE 1	
PAVEMENT THICKNESS T - INCHES	DEPTH OF CONTRACTION JOINT INITIAL SAW CUT T, INCHES T=(T/3) ±1/4"
8"	T=2.67" ±1/4"
11"	T=3.67" ±1/4"

PAVEMENT THICKNESS T - INCHES	DOWEL BAR DETAILS			TIE BAR DETAILS		
	DIA. (d)	LENGTH	SPACING	BAR SIZE	LENGTH	SPACING
6" - 7"	3/4"	18"	12"	#5	30"	30"
7.5" - 12"	1"	18"	12"	#5	30"	30"
12.5" - 16"	1 1/4"	20"	15"	#5	30"	30"
16.5" - 20"	1 1/2"	20"	18"	#5	30"	30"
20.5" - 24"	2"	24"	18"	#5	30"	30"

- NOTES:**
- ALL EDGES OF NEW SLABS, FREE STANDING OR CLOSURE, SHALL BE EDGED WITH AN APPROVED TOOL HAVING A RADIUS OF 1/8" TO 1/4" TO FACILITATE SAWING OF THE SEALANT RESERVOIR. A RADIUS > 1/4" WILL NOT BE ACCEPTABLE.
  - THE INITIAL SAWCUT FOR ALL LONGITUDINAL AND TRANSVERSE CONTRACTION JOINTS SHALL BE SAWED AS SOON AS POSSIBLE AFTER PLACEMENT OF THE PAVEMENT. SAWING OF LONGITUDINAL CONTRACTION JOINTS ADJACENT TO THICKENED EDGES SHALL BE GIVEN PRIORITY OVER OTHER LONGITUDINAL JOINT SAWING.
  - ALL DOWEL BARS SHALL BE SECURELY HELD IN PLACE BY MEANS OF A DOWEL BAR ASSEMBLY WHICH WILL ENSURE THAT THEY WILL REMAIN PARALLEL TO THE PAVEMENT LANES. THE DOWEL BAR ASSEMBLIES SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. ALTERNATE METHODS OF PLACEMENT OF DOWEL BARS MAY BE PROPOSED BY THE CONTRACTOR, TO BE APPROVED BY THE ENGINEER. TRANSVERSE DOWEL BAR IMPLANTING WILL NOT BE ALLOWED.
  - ALL TIE BARS AND MESH SHALL BE SECURELY HELD IN PLACE BY SUPPORT PINS OR PLACED BY OTHER APPROVED METHODS TO PREVENT SHIFTING DURING AND AFTER CONCRETE PLACEMENT.
  - TIE BARS SHALL BE DEFORMED BARS IN CONFORMANCE WITH ASTM A706, EXCEPT THAT RAIL STEEL BARS, GRADE 50 OR 60 SHALL NOT BE USED FOR THE BARS THAT ARE TO BE BENT OR RE-STRAIGHTEND DURING CONSTRUCTION. TIE BARS DESIGNATED AS GRADE 40 IN ASTM A706 CAN BE USED FOR CONSTRUCTION REQUIRING BENT BARS.
  - THE INITIAL SAWCUT SHALL BE MADE TO THE 1/8" WIDTH INDICATED. INITIAL SAWING TO THE DIMENSION OF THE SECOND SAWCUT WILL NOT BE ALLOWED.
  - JOINTS SHALL BE CLEAN AND DRY BEFORE SEALING OPERATIONS BEGIN.
  - SHOULD THE POURING OPERATIONS REQUIRE THE INSERTION OF AN INTERMEDIATE HEADER, A DOWEL BASKET ASSEMBLY OR OTHER APPROVED METHOD OF DOWEL BAR PLACEMENT SHALL BE REQUIRED.
  - EPOXY-COATED DOWEL BASKET ASSEMBLIES MAY BE PROPOSED BY THE CONTRACTOR TO BE APPROVED BY THE DESIGN PROFESSIONAL. DOWELS IN THE APPROVED BASKET ASSEMBLIES SHALL CONFORM TO TABLE 2.
  - CONTRACTOR SHALL CONSTRUCT A 1/4" CHAMFER ON ALL CONCRETE JOINTS PER THE DETAIL ON THIS SHEET.

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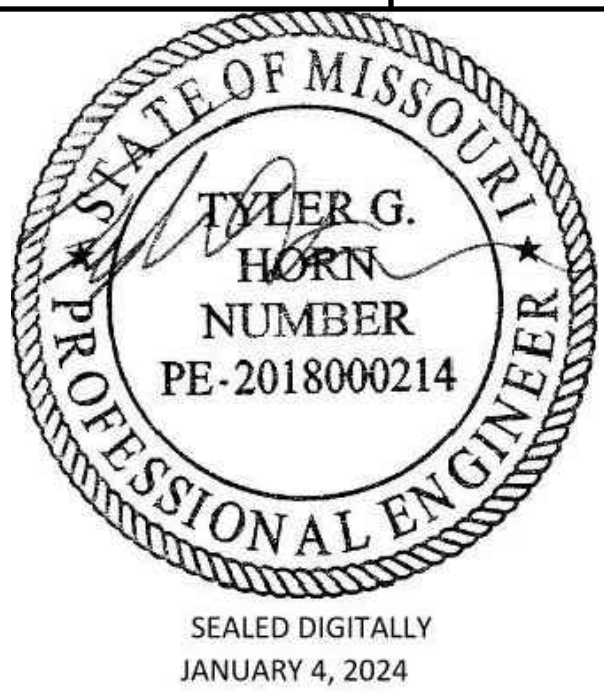
1627 MAIN STREET, #100  
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NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT  
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT  
CITY PROJECT NO. - 47732472



LEE'S SUMMIT MUNICIPAL AIRPORT  
LEE'S SUMMIT, MO

MARK	DATE	DESCRIPTION
0	08/13/24	REV-4

PROJECT NO: 47732472
CAD DWG FILE: JOINTING DETAILS
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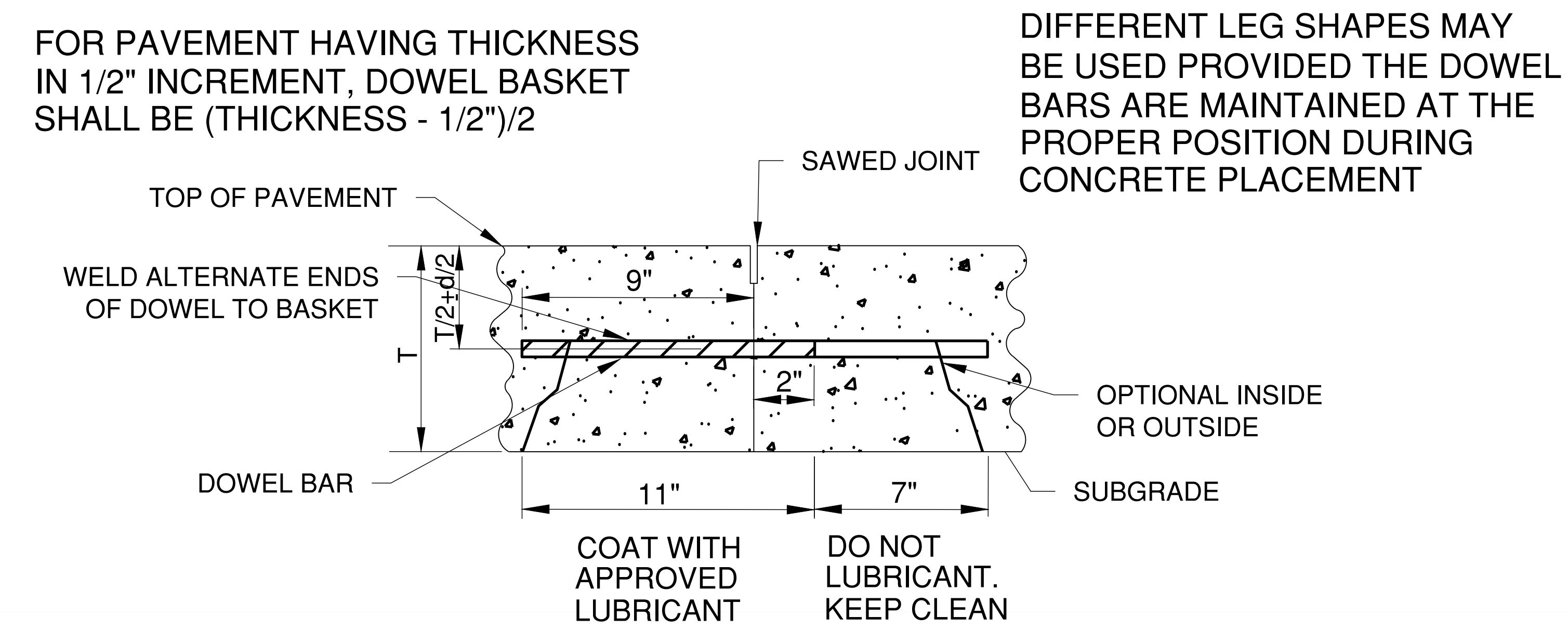
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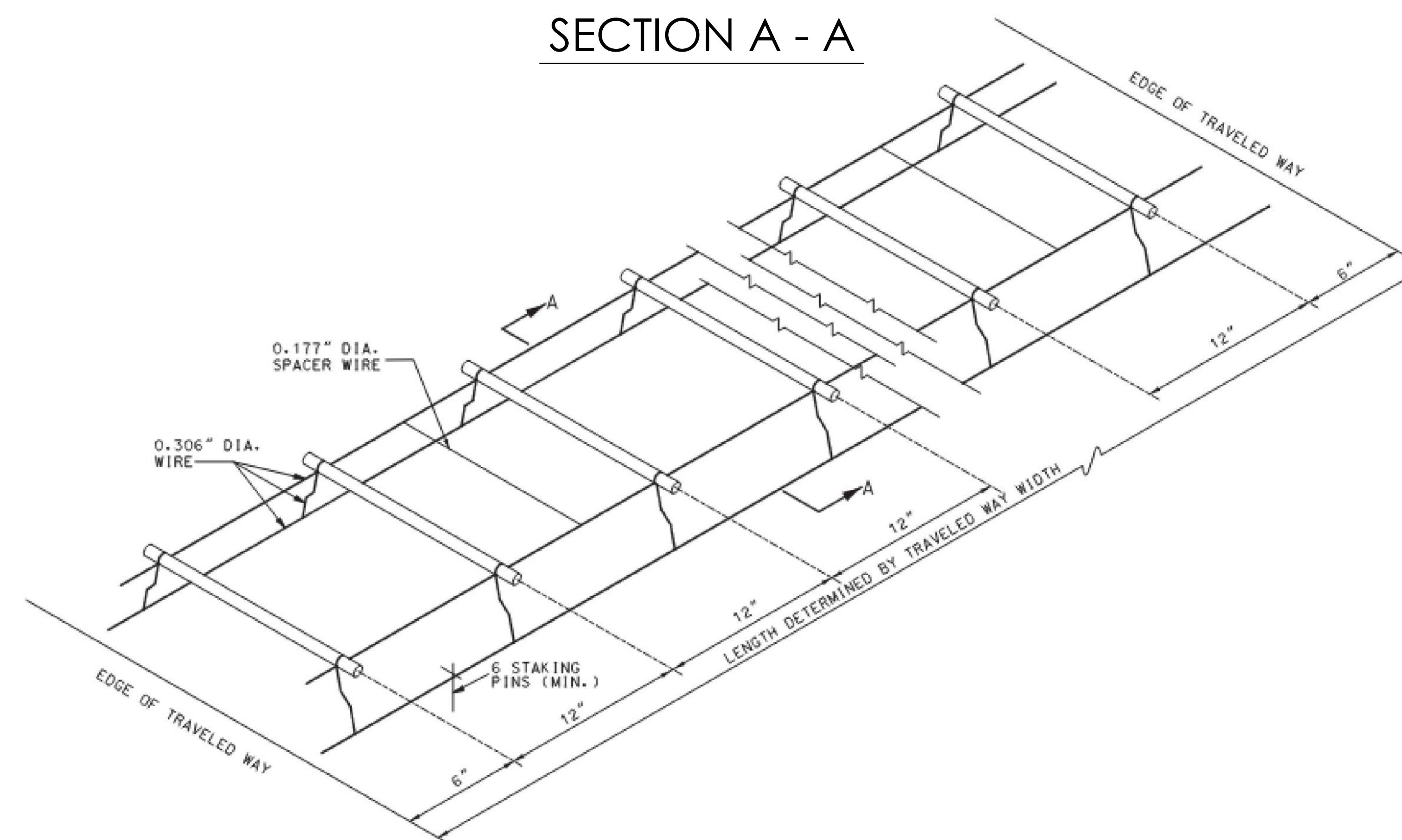
C138

SHEET 051 OF 133





DIFFERENT LEG SHAPES MAY  
BE USED PROVIDED THE DOWEL  
BARS ARE MAINTAINED AT THE  
PROPER POSITION DURING  
CONCRETE PLACEMENT



## DOWEL BAR ASSEMBLY

NOTES:

1. THE DOWEL SUPPORTING UNITS SHALL BE FACTORY ASSEMBLED AND CAPABLE OF HOLDING THE DOWELS IN THEIR REQUIRED POSITIONS. IN THE COMPLETED JOINT INSTALLATION, DOWELS SHALL BE POSITIONED WITHIN  $\frac{1}{2}$ " OF THE VERTICAL AND HORIZONTAL PLANE AND IN THE LONGITUDINAL DIRECTION. THE SKEW TOLERANCE SHALL BE  $\frac{1}{4}$ ".
2. THE FREE END OF EACH EPOXY COATED DOWEL SHALL BE MARKED WITH A SPOT OF PAINT AT LEAST ONE INCH IN DIAMETER AND CONTRASTING IN COLOR WITH THE EPOXY COATING.
3. WIRE SIZES SHOWN ARE MINIMUM REQUIRED.
4. WIRES, BARS, OR CLIPS SHALL BE USED AS NECESSARY TO STRENGTHEN ASSEMBLIES.
5. THE DIAMETER OF THE SPACER WIRE SHALL NOT EXCEED 0.200".
6. SPACER WIRE MAY BE CUT OR LEFT INTACT.
7. STAKING PINS SHALL BE FABRICATED FROM 0.306" DIAMETER WIRE SHALL BE MINIMUM WITH A SUITABLE HOOK. STAKING PINS SHALL HAVE A MINIMUM LENGTH OF 12" FOR DOWEL ASSEMBLIES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
8. MINOR VARIATIONS IN THE CONFIGURATION OF THE SUPPORT UNITS WILL BE ALLOWED.

2. THE FREE END OF EACH EPOXY COATED DOWEL SHALL BE MARKED WITH A SPOT OF PAINT AT LEAST ONE INCH IN DIAMETER AND CONTRASTING IN COLOR WITH THE EPOXY COATING.

3. WIRE SIZES SHOWN ARE MINIMUM REQUIRED.

4. WIRES, BARS, OR CLIPS SHALL BE USED AS NECESSARY TO STRENGTHEN ASSEMBLIES.

5. THE DIAMETER OF THE SPACER WIRE SHALL NOT EXCEED 0.200".

6. SPACER WIRE MAY BE CUT OR LEFT INTACT.

7. STAKING PINS SHALL BE FABRICATED FROM 0.306" DIAMETER WIRE SHALL BE MINIMUM WITH A SUITABLE HOOK. STAKING PINS SHALL HAVE A MINIMUM LENGTH OF 12" FOR DOWEL ASSEMBLIES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

8. MINOR VARIATIONS IN THE CONFIGURATION OF THE SUPPORT UNITS WILL BE ALLOWED.



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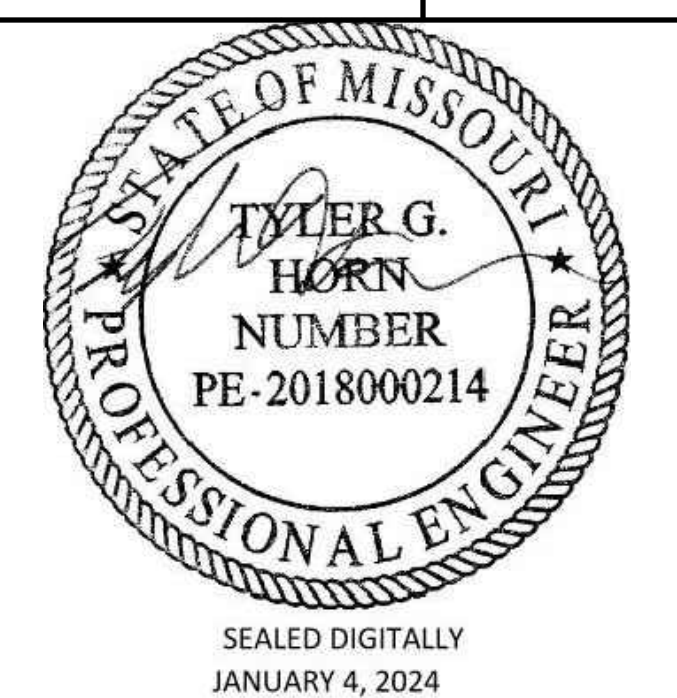
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## PAVEMENT JOINTING DETAILS

C138A

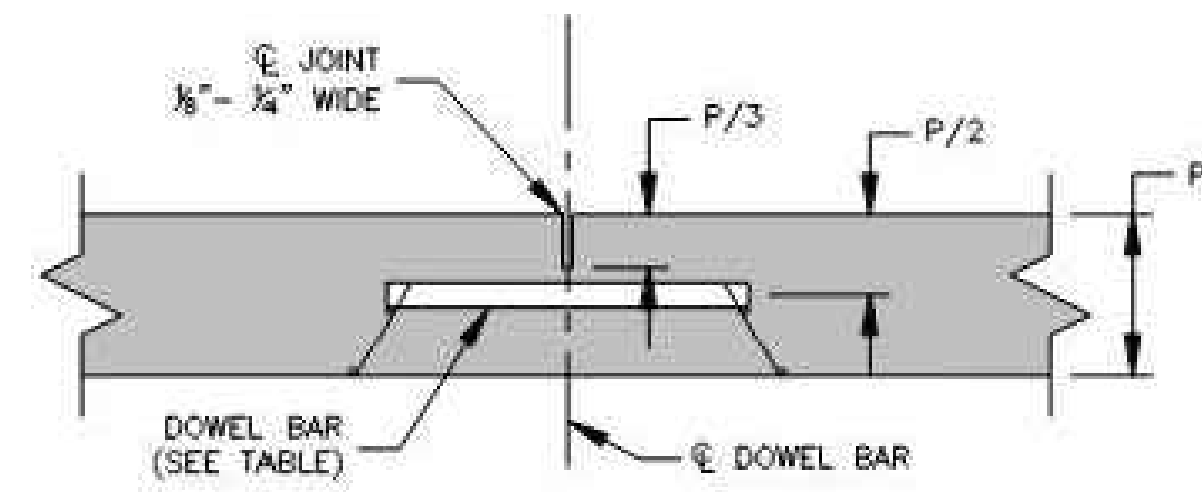
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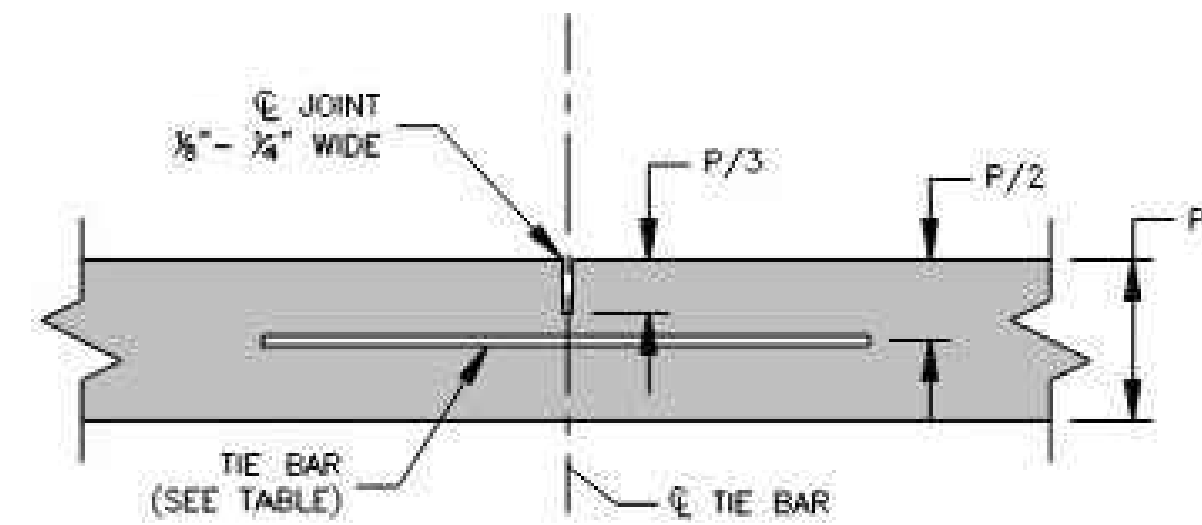


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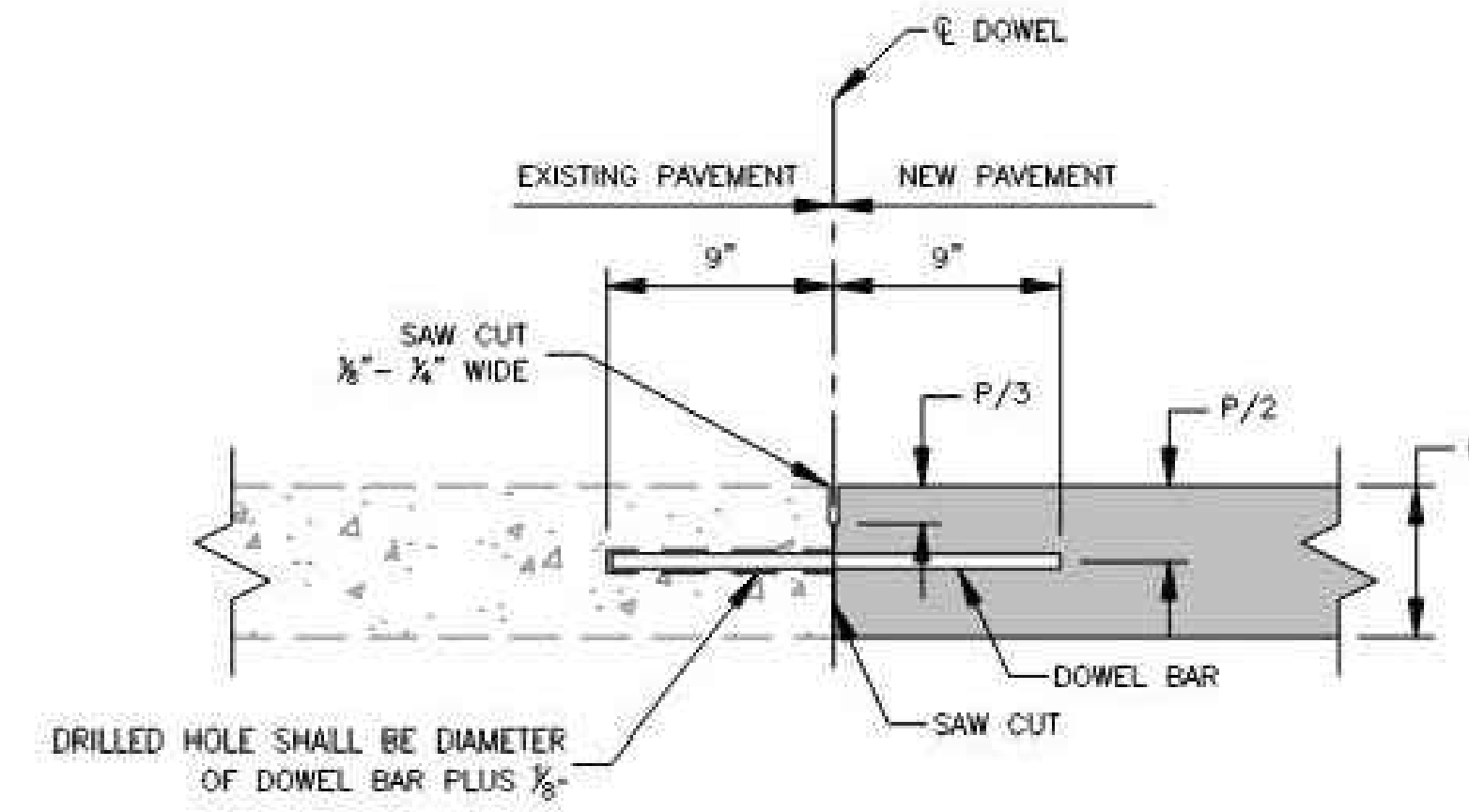


NOTE:  
TRANSVERSE CONTRACTION JOINTS FOR CONCRETE PAVEMENT  
OR BASE WIDENING SHALL MATCH EXISTING JOINTS.

## 1 TRANSVERSE CONTRACTION JOINT

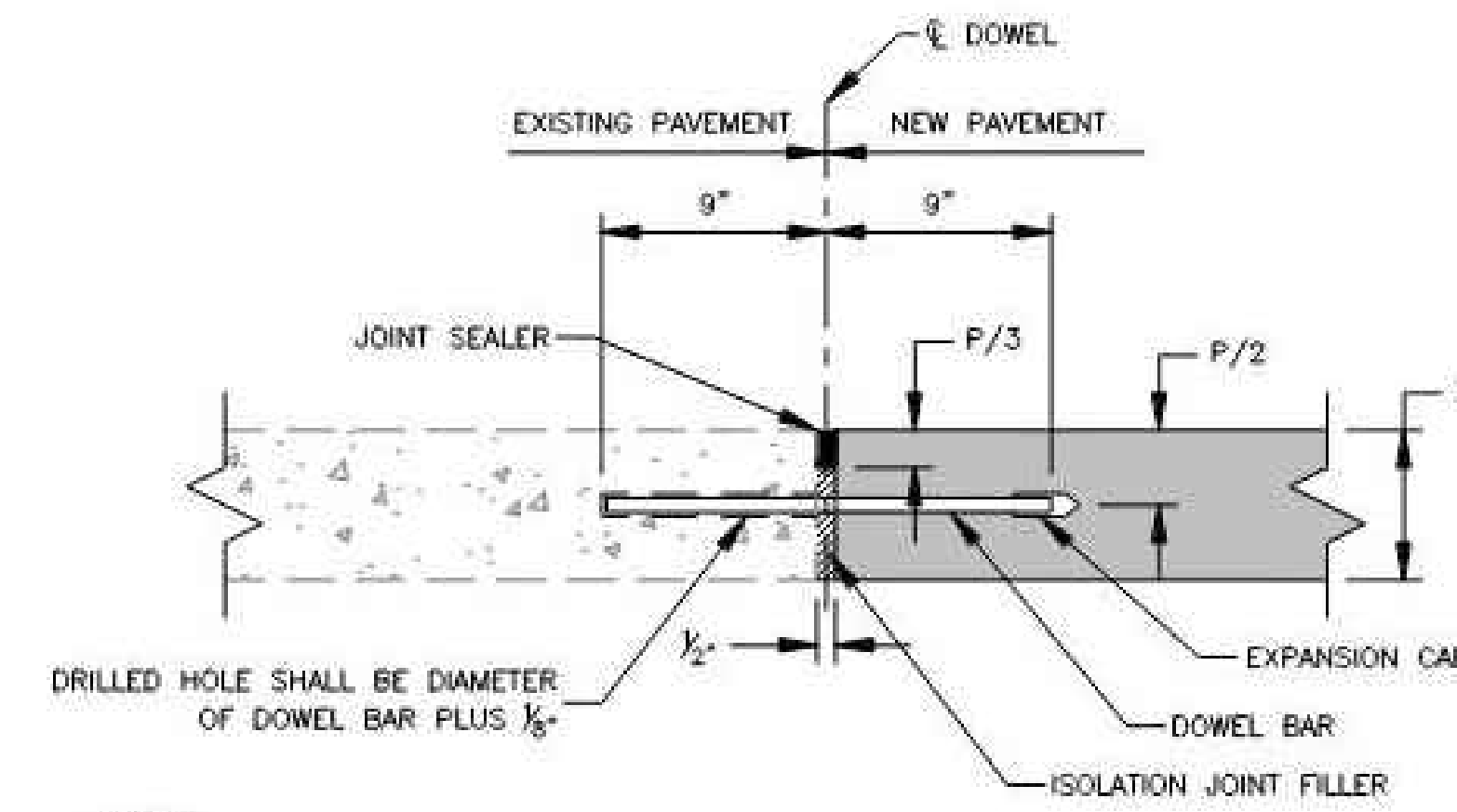


## 2 LONG. CONTRACTION/CONSTRUCTION JOINT



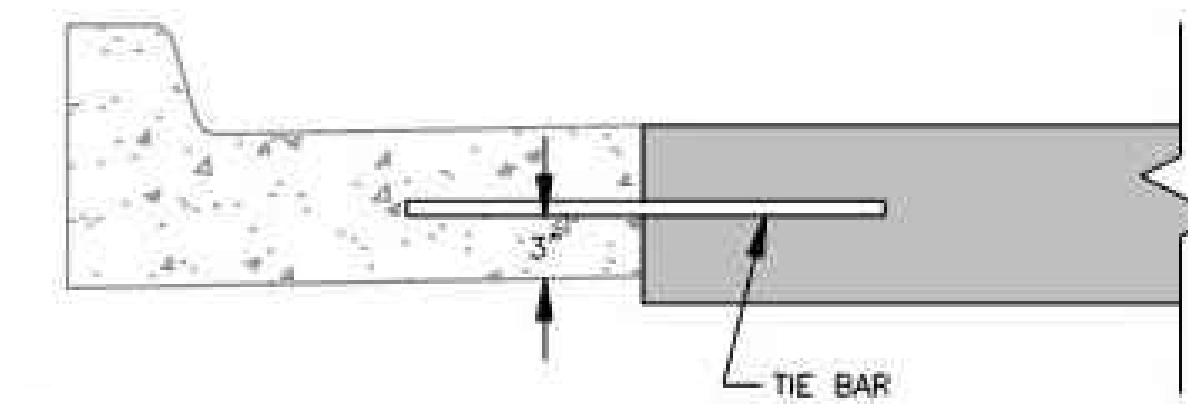
NOTES:  
- DOWEL BARS SHALL BE SMOOTH REINFORCING BARS.  
- DOWEL BARS SHALL BE BONDED INTO THE EXISTING PAVEMENT.  
- BONDING FOR DOWEL BARS SHALL BE EPOXY OR POLYESTER BONDING AGENTS.  
- THE PORTION OF THE DOWEL OUTSIDE THE HOLE SHALL BE COATED WITH AN APPROVED LUBRICANT.

## 3 TRANSVERSE CONSTRUCTION JOINT



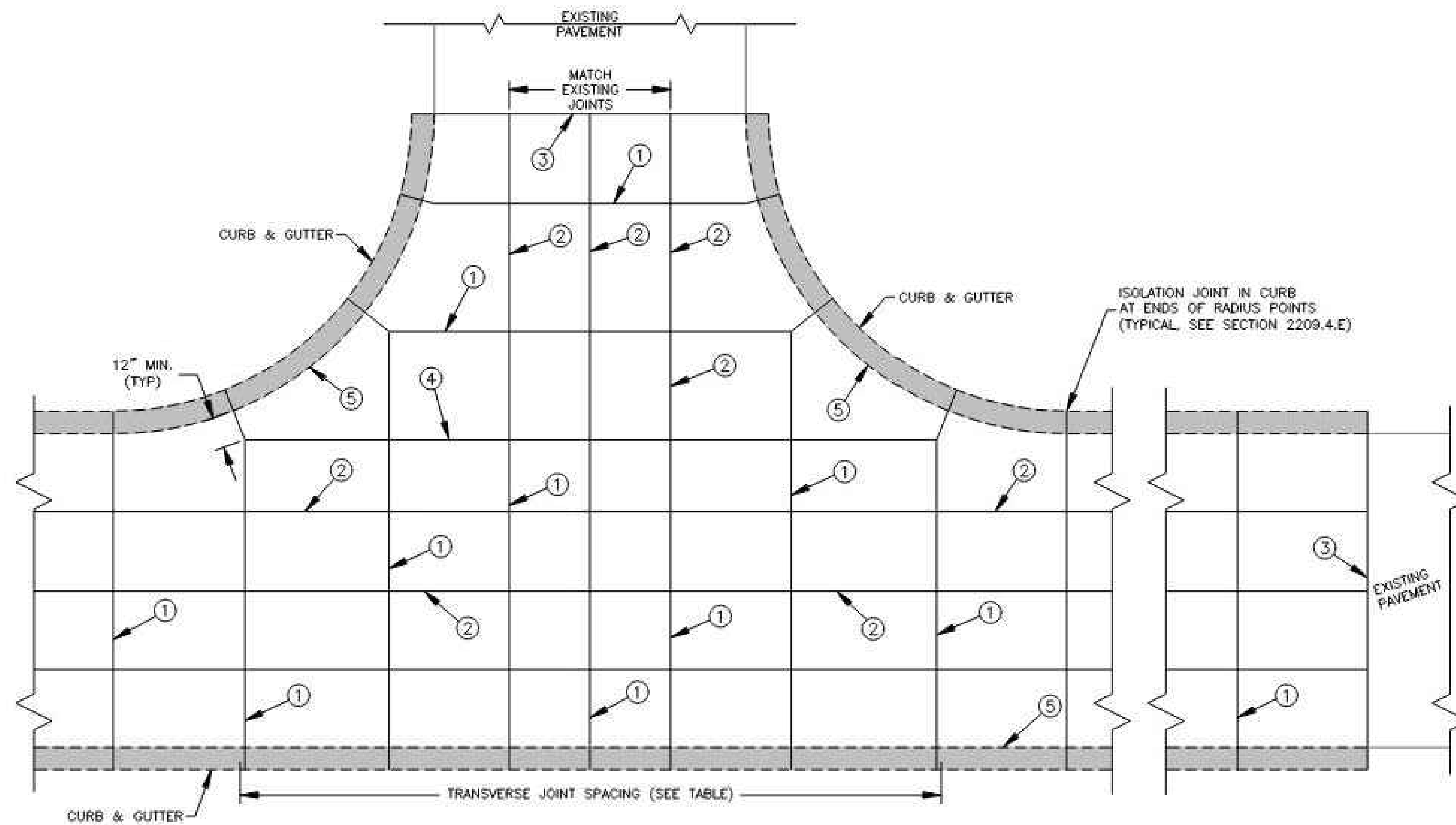
NOTES:  
- DOWEL BARS SHALL BE SMOOTH REINFORCING BARS.  
- DOWEL BARS SHALL BE BONDED INTO THE EXISTING PAVEMENT.  
- BONDING FOR DOWEL BARS SHALL BE EPOXY OR POLYESTER BONDING AGENTS.  
- THE PORTION OF THE DOWEL OUTSIDE THE HOLE SHALL BE COATED WITH AN APPROVED LUBRICANT.

## 4 TRANSVERSE ISOLATION JOINT



NOTE:  
- JOINT NOT NEEDED IF CURB & GUTTER IS MONOLITHICALLY POURED.

## 5 LONG. CONSTRUCTION JOINT (CURB & GUTTER)

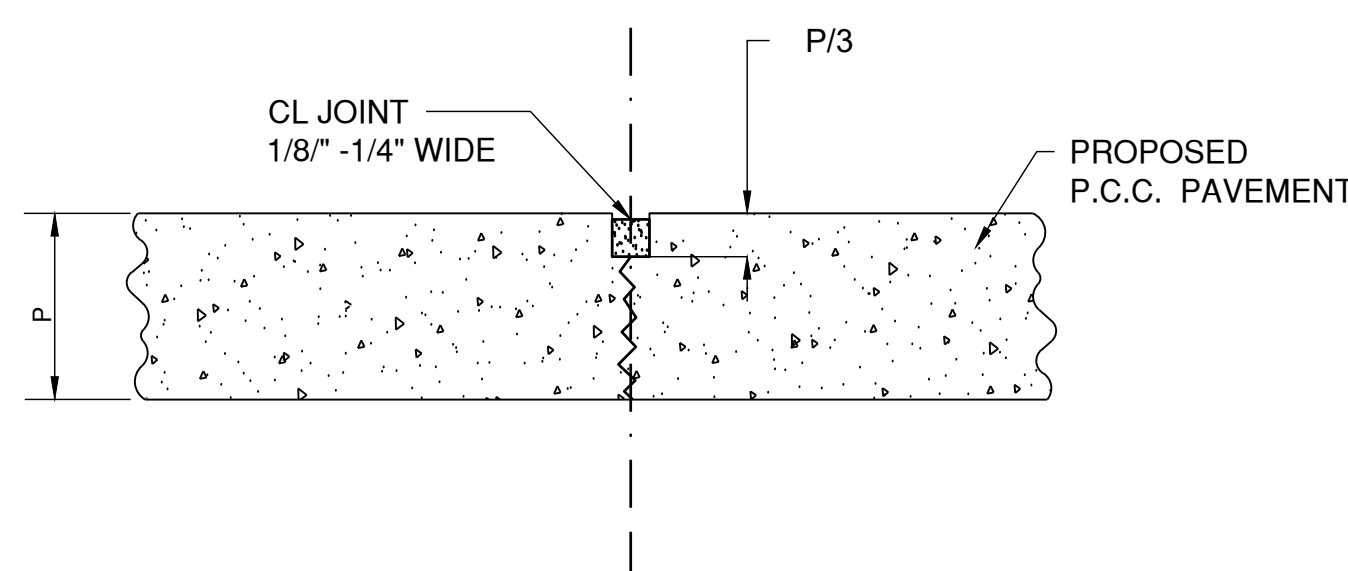


JOINT SPACING/INTERSECTION DETAIL

TABLE						
PCCP THICKNESS (P)	DOWEL SIZE	TIE BAR SIZE	DOWEL SPACING	TIE BAR SPACING	MAX. TRAN. SPACING	MAX. LONG. SPACING
6"	N/A	#5 x 30"	N/A	30" CTRS.	12'	12'
7"	1" x 18"	#5 x 30"	12" CTRS.	30" CTRS.	14'	14'
8"	1 1/4" x 18"	#5 x 30"	12" CTRS.	30" CTRS.	15'	14'
≥9"	1 1/2" x 18"	#5 x 30"	12" CTRS.	30" CTRS.	15'	15'

### GENERAL NOTES:

- THE FINAL POSITION OF ALL DOWELS AND TIE BARS SHALL BE PERPENDICULAR TO THE PLANE OF THE JOINT AND PARALLEL TO THE SURFACE OF THE PAVEMENT AND PARALLEL TO EACH OTHER.
- ALL DOWELS & TIE BARS SHALL BE EPOXY COATED.
- DOWEL BARS SHALL BE PLACED AT 9 INCHES FROM LONGITUDINAL JOINTS.
- TIE BARS SHALL BE PLACED AT 12 INCHES FROM TRANSVERSE JOINTS.
- PANEL LENGTH TO WIDTH RATIO SHALL NOT EXCEED 1.25 TO 1.
- DOWEL BASKET SHIPPING WIRE SHALL NOT BE CUT.
- CONTRACTOR SHALL SUBMIT PROJECT SPECIFIC JOINTING PLAN AT LEAST TWO WEEKS BEFORE PAVING OPERATIONS.
- IN ACCORDANCE WITH 2208.4.D, ALL JOINTS SHALL BE SEALED, INCLUDING CURB & GUTTER.



DUMMY CONTRACTION JOINT

SYMBOL - - - - -

**LEE'S SUMMIT**  
**MISSOURI**

STANDARD DETAILS  
CITY OF LEE'S SUMMIT, MO  
LEE'S SUMMIT, JACKSON COUNTY, MO  
SHEET NUMBER:  
TYPICAL PAVEMENT JOINT DETAILS

GEN-10



1627 MAIN STREET, SUITE 600  
KANSAS CITY, MO 64108



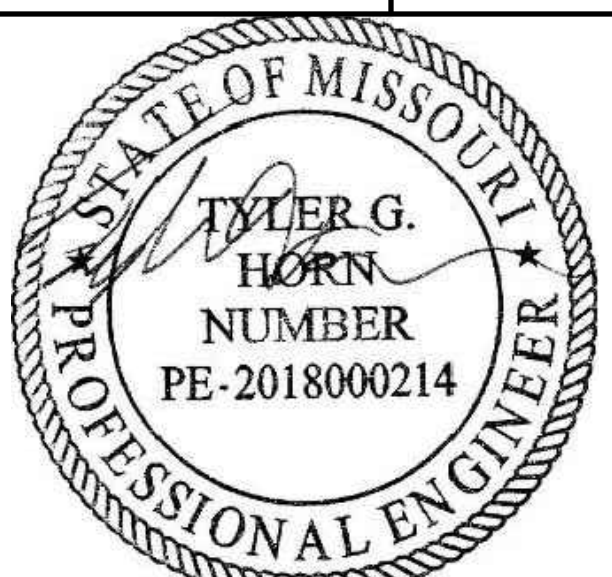
1627 MAIN STREET, #100  
KANSAS CITY, MO 64108



1301 BURLINGTON STREET  
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT  
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT  
CITY PROJECT NO. - 47732472



SEALED DIGITALLY  
JANUARY 4, 2024

LEE'S SUMMIT MUNICIPAL AIRPORT  
LEE'S SUMMIT, MO

08/13/24 REV-4

MARK DATE DESCRIPTION

PROJECT NO: 47732472

CAD DWG FILE: JOINTING DETAILS

DESIGNED BY: WLC

DRAWN BY: WLC

CHECKED BY: JRC

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SHEET TITLE

PAVEMENT JOINTING  
DETAILS

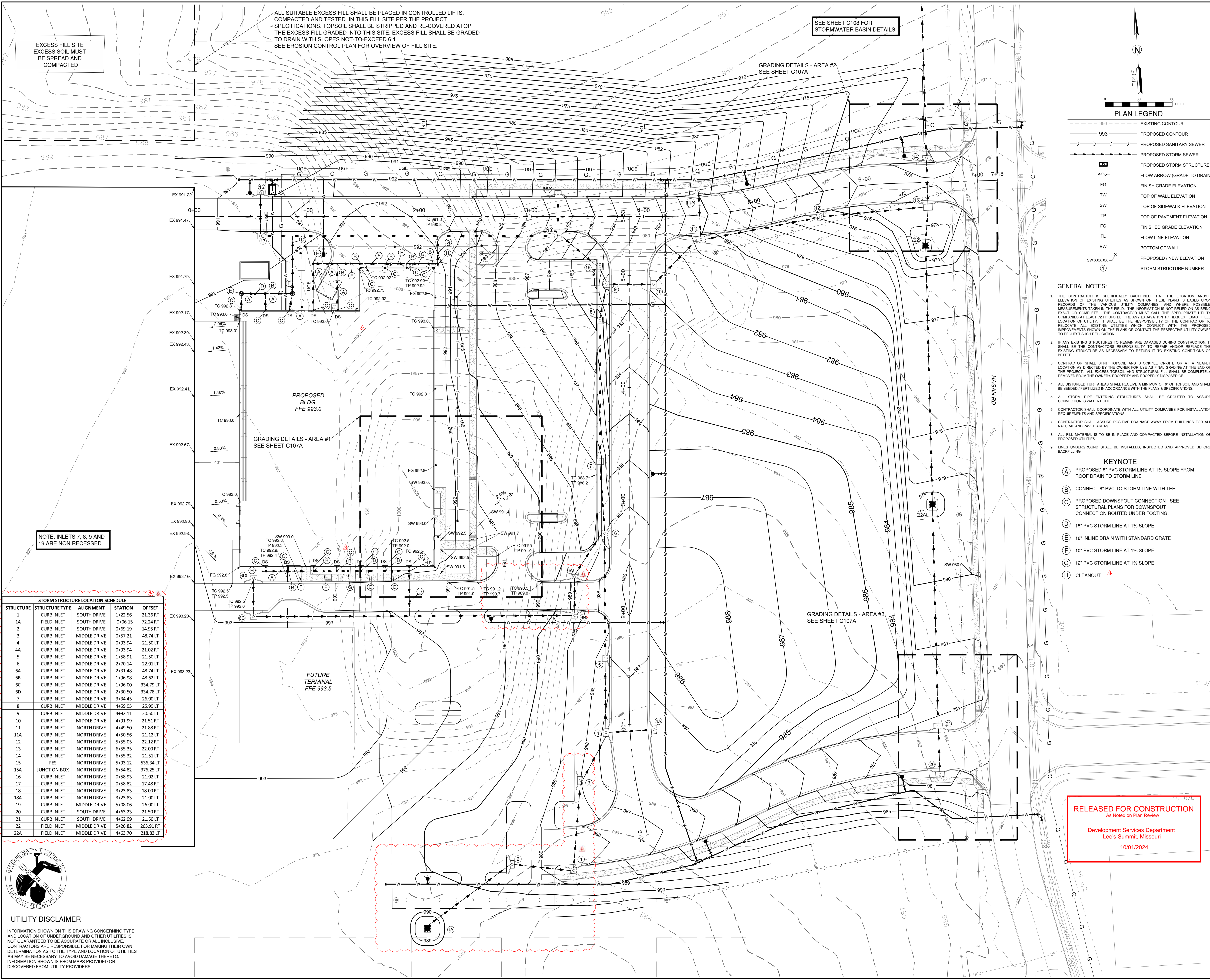
C138B

SHEET OF 133

RELEASED FOR CONSTRUCTION  
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Development Services Department  
Lee's Summit, Missouri  
10/01/2024





EXCESS FILL SITE  
EXCESS SOIL MUST  
BE SPREAD AND  
COMPACTED

ALL SUITABLE EXCESS FILL SHALL BE PLACED IN CONTROLLED LIFTS,  
COMPACTED AND TESTED IN THIS FILL SITE PER THE PROJECT  
SPECIFICATIONS. TOPSOIL SHALL BE STRIPPED AND RE-COVERED ATOP  
THE EXCESS FILL GRADED INTO THIS SITE. EXCESS FILL SHALL BE GRADED  
TO DRAIN WITH SLOPES NOT TO EXCEED 6:1.  
SEE EROSION CONTROL PLAN FOR OVERVIEW OF FILL SITE.

SEE SHEET C108 FOR  
STORMWATER BASIN DETAILS

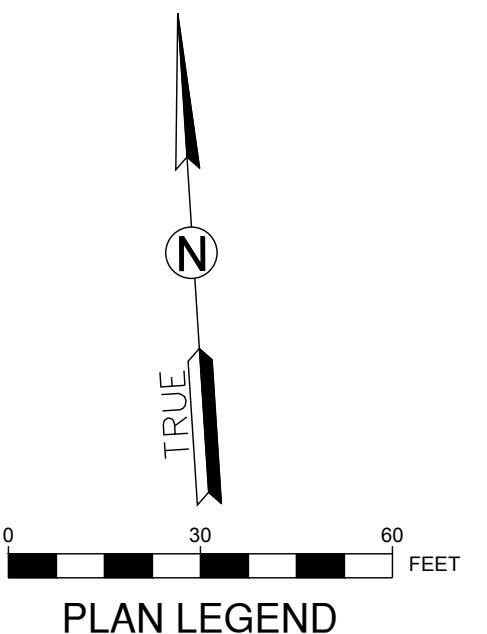
GRADING DETAILS - AREA #2  
SEE SHEET C107A

PROPOSED  
BLDG.  
FFE 993.0

GRADING DETAILS - AREA #1  
SEE SHEET C107A

FUTURE  
TERMINAL  
FFE 993.5

GRADING DETAILS - AREA #3  
SEE SHEET C107A



- PLAN LEGEND**
- EXISTING CONTOUR
  - PROPOSED CONTOUR
  - PROPOSED SANITARY SEWER
  - PROPOSED STORM SEWER
  - PROPOSED STORM STRUCTURE
  - FLOW ARROW (GRADE TO DRAIN)
  - FG FINISH GRADE ELEVATION
  - TW TOP OF WALL ELEVATION
  - SW TOP OF SIDEWALK ELEVATION
  - TP TOP OF PAVEMENT ELEVATION
  - FG FINISHED GRADE ELEVATION
  - FL FLOW LINE ELEVATION
  - BW BOTTOM OF WALL
  - PROPOSED / NEW ELEVATION
  - STORM STRUCTURE NUMBER

- GENERAL NOTES:**
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED UPON RECORDS OF THE VARIOUS UTILITY COMPANIES. AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS OR CONTACT THE RESPECTIVE UTILITY OWNER TO REQUEST SUCH RELOCATION.
  - IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
  - CONTRACTOR SHALL STRIP TOPSOIL AND STOCKPILE ON-SITE OR AT A NEARBY LOCATION AS DIRECTED BY THE OWNER FOR USE AS FINAL GRADING AT THE END OF THE PROJECT. ALL EXCESS TOPSOIL AND STRUCTURAL FILL SHALL BE COMPLETELY REMOVED FROM THE OWNERS PROPERTY AND PROPERLY DISPOSED OF.
  - ALL DISTURBED TURF AREAS SHALL RECEIVE A MINIMUM OF 6" OF TOPSOIL AND SHALL BE SEEDS / FERTILIZED IN ACCORDANCE WITH THE PLANS & SPECIFICATIONS.
  - ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUDED TO ASSURE CONNECTION IS WATERTIGHT.
  - CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
  - CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
  - ALL FILL MATERIAL IS TO BE IN PLACE AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
  - ALL LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.

- KEYNOTE**
- (A) PROPOSED 8" PVC STORM LINE AT 1% SLOPE FROM ROOF DRAIN TO STORM LINE
  - (B) CONNECT 8" PVC TO STORM LINE WITH TEE
  - (C) PROPOSED DOWNSPOUT CONNECTION - SEE STRUCTURAL PLANS FOR DOWNSPOUT CONNECTION ROUTED UNDER FOOTING.
  - (D) 15" PVC STORM LINE AT 1% SLOPE
  - (E) 18" INLINE DRAIN WITH STANDARD GRATE
  - (F) 10" PVC STORM LINE AT 1% SLOPE
  - (G) 12" PVC STORM LINE AT 1% SLOPE
  - (H) CLEANOUT

STORM STRUCTURE LOCATION SCHEDULE					
STRUCTURE	STRUCTURE TYPE	ALIGNMENT	STATION	OFFSET	
1	CURB INLET	SOUTH DRIVE	1+22.56	21.36 RT	
1A	FIELD INLET	SOUTH DRIVE	-0+06.15	72.24 RT	
2	CURB INLET	SOUTH DRIVE	0+49.19	14.95 RT	
3	CURB INLET	MIDDLE DRIVE	0+57.21	48.74 LT	
4	CURB INLET	MIDDLE DRIVE	0+93.94	21.50 LT	
4A	CURB INLET	MIDDLE DRIVE	0+93.94	21.02 RT	
5	CURB INLET	MIDDLE DRIVE	1+58.91	21.50 LT	
6	CURB INLET	MIDDLE DRIVE	2+70.14	22.01 LT	
6A	CURB INLET	MIDDLE DRIVE	2+31.48	48.74 LT	
6B	CURB INLET	MIDDLE DRIVE	1+96.98	48.62 LT	
6C	CURB INLET	MIDDLE DRIVE	1+96.00	334.79 LT	
6D	CURB INLET	MIDDLE DRIVE	2+30.50	334.78 LT	
7	CURB INLET	MIDDLE DRIVE	3+34.45	26.00 LT	
8	CURB INLET	MIDDLE DRIVE	4+59.95	25.99 LT	
9	CURB INLET	MIDDLE DRIVE	4+92.11	20.50 LT	
10	CURB INLET	MIDDLE DRIVE	4+91.99	21.51 RT	
11	CURB INLET	NORTH DRIVE	4+49.50	21.88 RT	
11A	CURB INLET	NORTH DRIVE	4+50.56	21.12 LT	
12	CURB INLET	NORTH DRIVE	5+55.05	22.12 RT	
13	CURB INLET	NORTH DRIVE	6+55.35	22.00 RT	
14	CURB INLET	NORTH DRIVE	6+55.32	21.51 LT	
15	FES	NORTH DRIVE	5+93.12	536.34 LT	
15A	JUNCTION BOX	NORTH DRIVE	6+54.82	376.25 LT	
16	CURB INLET	NORTH DRIVE	0+58.93	21.02 LT	
17	CURB INLET	NORTH DRIVE	0+58.82	17.48 RT	
18	CURB INLET	NORTH DRIVE	3+23.83	18.00 RT	
18A	CURB INLET	NORTH DRIVE	3+23.83	21.00 LT	
19	CURB INLET	MIDDLE DRIVE	5+08.06	26.00 LT	
20	CURB INLET	SOUTH DRIVE	4+63.23	21.50 RT	
21	CURB INLET	SOUTH DRIVE	4+62.99	21.50 LT	
22	FIELD INLET	MIDDLE DRIVE	5+26.82	263.91 RT	
22A	FIELD INLET	MIDDLE DRIVE	4+63.70	218.83 LT	



**UTILITY DISCLAIMER**

INFORMATION SHOWN ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. CONTRACTORS ARE RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. INFORMATION SHOWN IS FROM MAPS PROVIDED OR DISCOVERED FROM UTILITY PROVIDERS.

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Development Services Department  
Lee's Summit, Missouri  
10/01/2024

**CMT**

1627 MAIN STREET, SUITE 600  
KANSAS CITY, MO 64108

**WELLNER ARCHITECTS, INC.**

1627 MAIN STREET, #100  
KANSAS CITY, MO 64108

**olsson**

1301 BURLINGTON STREET  
NORTH KANSAS CITY, MO 64116

**LEE'S SUMMIT MUNICIPAL AIRPORT  
LEE'S SUMMIT, MISSOURI**

**EASTSIDE DEVELOPMENT  
CITY PROJECT NO. - 47732472**

STATE OF MISSOURI  
TYLER G. HORN  
NUMBER  
PE-2018000214  
PROFESSIONAL ENGINEER  
SEALED DIGITALLY  
JANUARY 4, 2024

LEE'S SUMMIT MUNICIPAL AIRPORT LEE'S SUMMIT, MO		
MARK	DATE	DESCRIPTION
PROJECT NO.: 47732472		
CAD DWG FILE: GRADING PLAN		
DESIGNED BY: WLC		
DRAWN BY: WLC		
CHECKED BY: JRC		
APPROVED BY: TGH		
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<b>GRADING PLAN</b>		
<b>C107</b>		
SHEET 016 OF 133		





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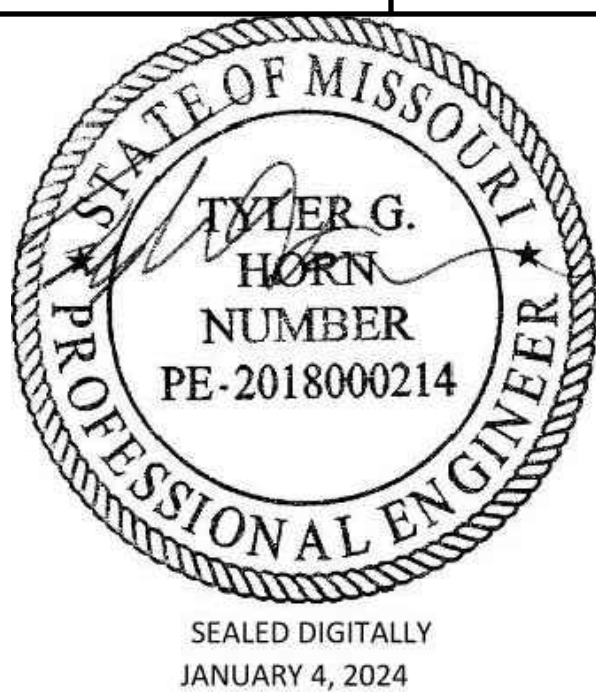
1627 MAIN STREET, #100  
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NORTH KANSAS CITY, MO 64116

# LEE'S SUMMIT MUNICIPAL AIRPORT LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT  
CITY PROJECT NO. - 47732472



LEE'S SUMMIT MUNICIPAL AIRPORT  
LEE'S SUMMIT, MO

06/07/24 REV-3  
09/13/24 REV-4

MARK	DATE	DESCRIPTION
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PROJECT NO:	47732472
CAD DWG FILE:	STORM PROFILE - SHEET 3
DESIGNED BY:	WLC
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CHECKED BY:	JRC
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SHEET TITLE

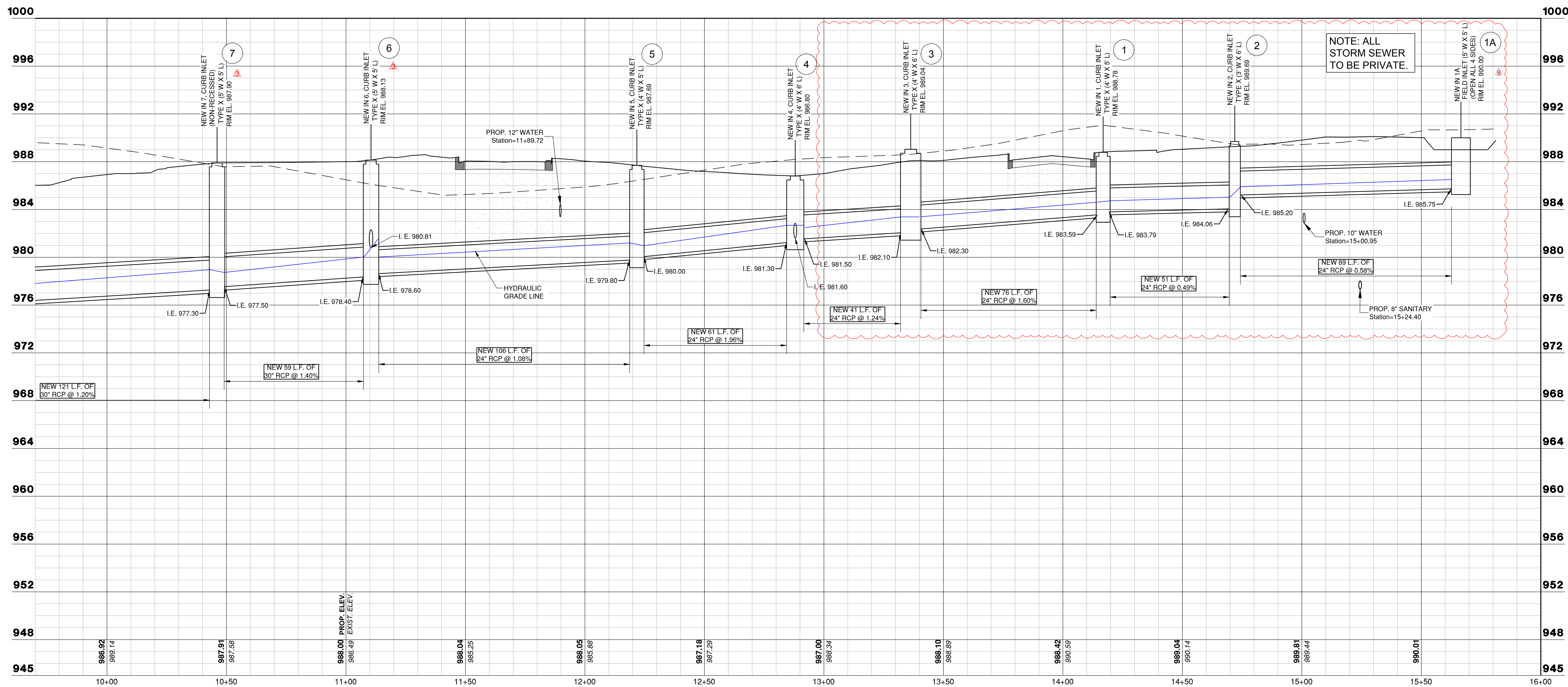
STORM PROFILE -  
SHEET 2

C110

SHEET 020 OF 133

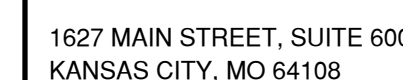
## LEGEND

- NEW SIDEWALK
- NEW PAVEMENT
- NEW TRENCH BACKFILL
- NEW CURB AND GUTTER
- EXISTING GROUND ELEVATION
- PROPOSED GROUND ELEVATION
- 25 YEAR HYDRAULIC GRADE LINE



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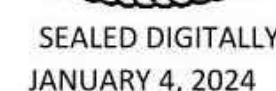





1627 MAIN STREET, #10  
KANSAS CITY, MO 64108

1301 BURLINGTON STREET  
NORTH KANSAS CITY, MO 64116

EASTSIDE DEVELOPMENT  
CITY PROJECT NO. - 4773247



	06/07/24	REV-3
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SHEET TITLE

C111

SHEET 021 OF 133



— — — — EXISTING GROUND ELEVATION

PROPOSED GROUND ELEVATION

25 YEAR HYDRAULIC GRADE LINE



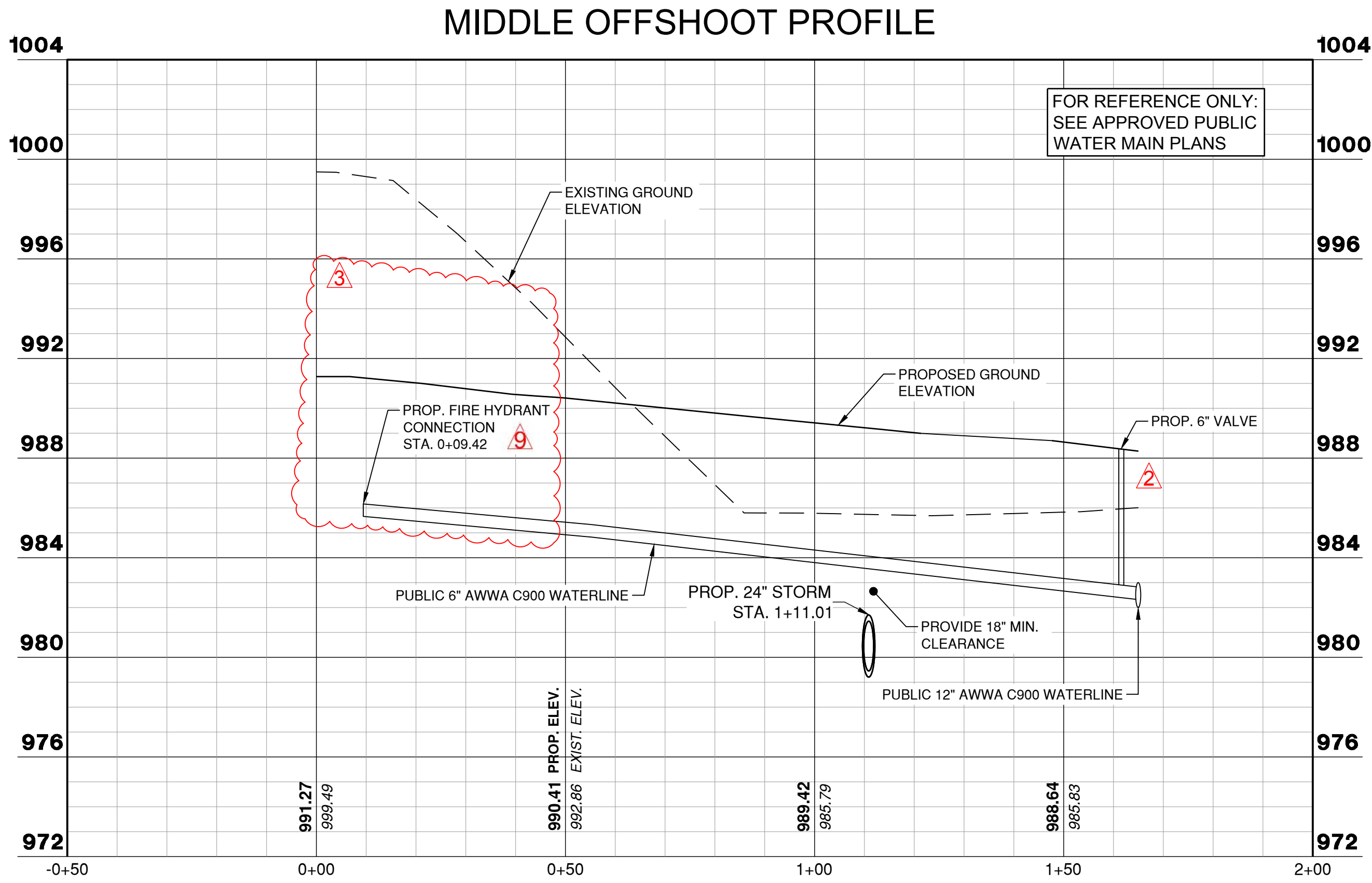
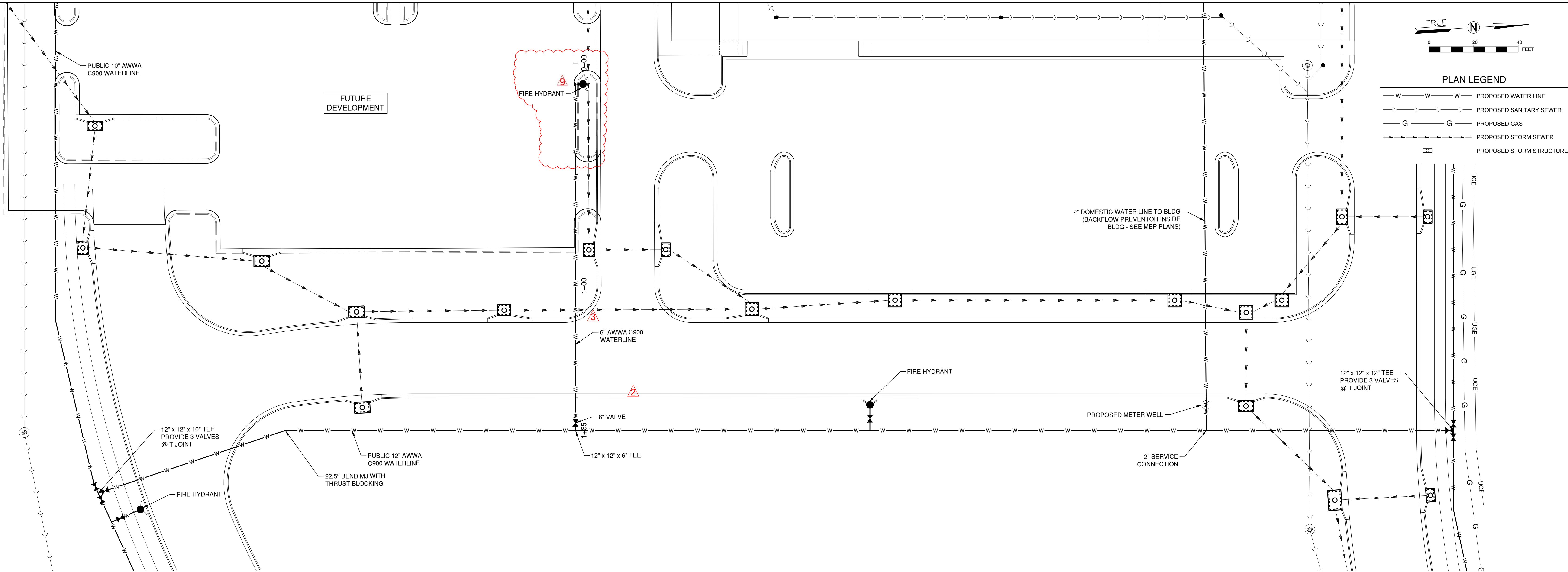
Development Services Department  
Lee's Summit, Missouri  
10/01/2024



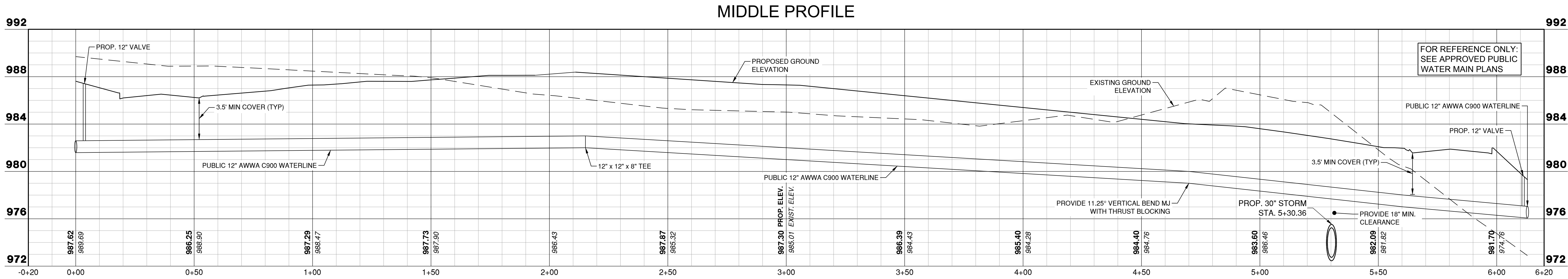




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10/01/2024



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LEE'S SUMMIT MUNICIPAL AIRPORT  
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT  
CITY PROJECT NO. - 47732472



LEE'S SUMMIT MUNICIPAL AIRPORT  
LEE'S SUMMIT, MO

Δ	03/29/24	REV-2
Δ	05/07/24	REV-3
Δ	09/13/24	REV-4

MARK	DATE	DESCRIPTION
PROJECT NO:	47732472	
CAD DWG FILE:	WATER LINE PLAN & PROFILE - SHEET 3	
DESIGNED BY:	WLC	
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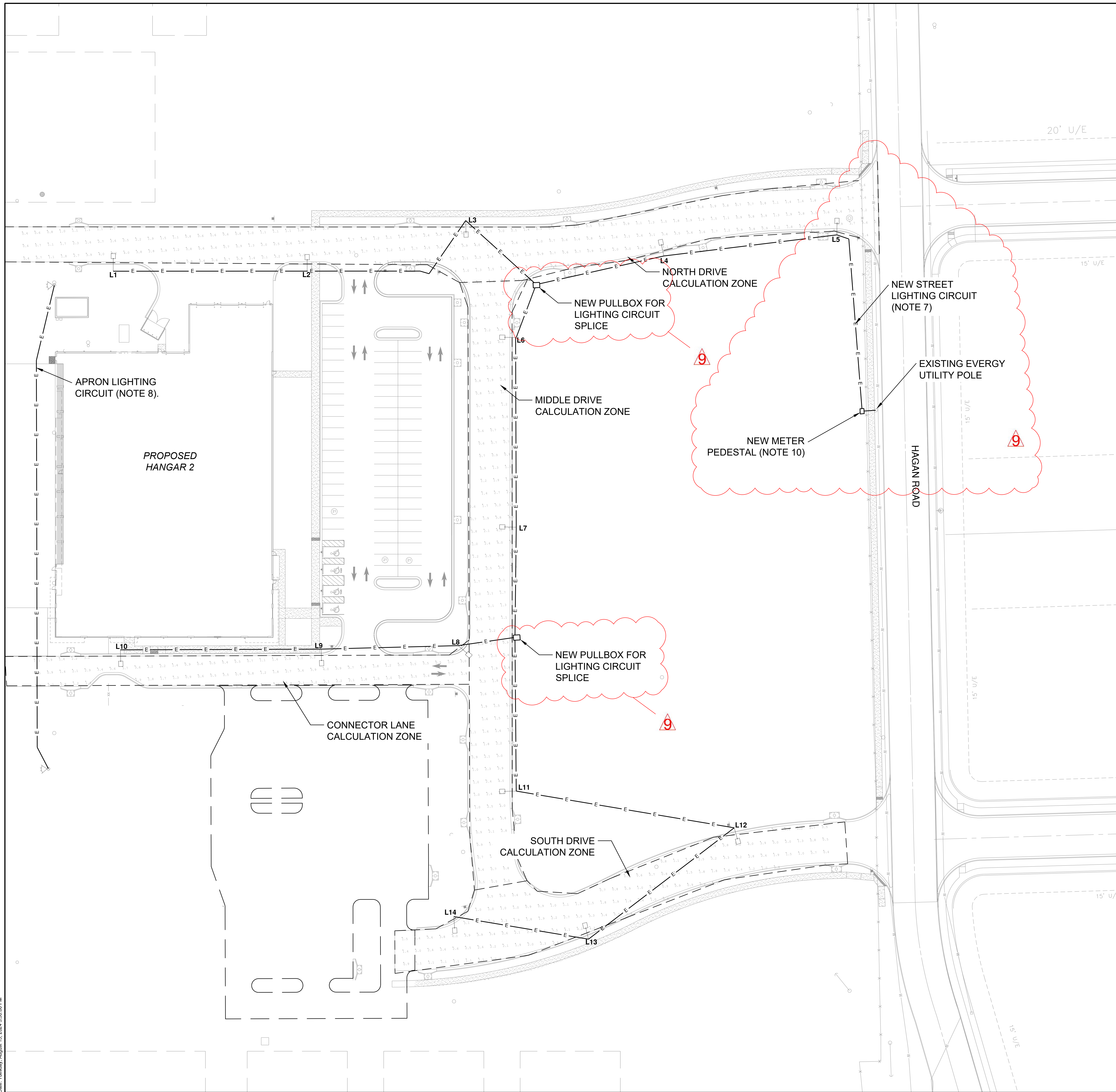
WATER LINE PLAN &  
PROFILE - SHEET 2

C117

SHEET 029 OF 133



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## ELECTRICAL LEGEND

- NEW LUMINAIRE WITH 3' MAST ARM ON 25' LIGHT POLE
- PHOTOMETRIC CALCULATION ZONE BOUNDARY
- NEW ELECTRICAL STREET LIGHTING CIRCUIT
- EXISTING APRON LIGHT POLE

## LIGHTING NOTES

Acceptable Luminaire Manufacturers:		
Manufacturer	Model No.	Distribution
Cooper Lighting	VERD-M-CA3-150-722-U-T2	Type II

- LED LUMINAIRES SHALL BE OF THE MANUFACTURER AND TYPE DENOTED ABOVE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, AND WIRING NEW LIGHT POLES. THE LIGHT POLES SHALL MEET THE FOLLOWING CRITERIA:
  - 25' LIGHT MOUNTING HEIGHT
  - 3' MAST ARMS. MAST ARMS SHALL ALLOW PROPER CONNECTION AND MOUNTING OF LIGHT FIXTURES. THOSE FIXTURES SHALL BE ACUTY BRANDS AUTOBAHN FIXTURES AS INDICATED IN THE ACCEPTABLE LUMINAIRE MANUFACTURERS TABLE.
  - COLOR: BLACK
  - CONTRACTOR SHALL PROVIDE SUBMITTAL SUBJECT TO APPROVAL BY ENGINEER.
  - LIGHT POLE SHALL BE INSTALLED ON A CONCRETE BASE AS SHOWN ON THE ELECTRICAL DETAILS PLAN SHEET.
- LIGHT LEVELS FOR EACH PORTION OF THE PROJECT AREA SHALL BE IN ACCORDANCE WITH THE FOLLOWING FIXTURE ILLUMINANCE TABLE.

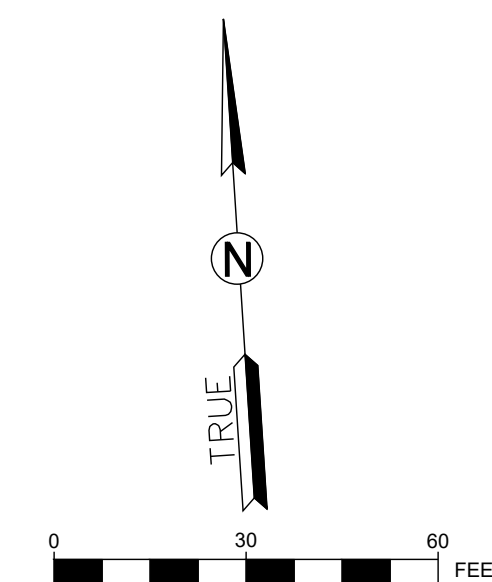
PROPOSED LIGHT EMITTING DIODE (LED) FIXTURE ILLUMINANCE (Fc) WITH 0.7 LLF					
CALCULATION ZONE	AVERAGE	MAXIMUM	MINIMUM	AVG/MIN	MAX/MIN
North Drive	1.75	4.2	0.4	4.38	10.5
Middle Drive	1.9	4.1	0.5	3.8	8.2
South Drive	1.88	4.2	0.4	4.7	10.5
Connector Lane	1.65	4	0.4	4.13	10

## ELECTRICAL NOTES

- TO FEDERAL, STATE, AND LOCAL STATUTES. NOTIFY MISSOURI ONE-CALL SYSTEM, INC. AT LEAST 48 HOURS PRIOR TO ANY DIGGING, TRENCHING, EXCAVATION, ETC.
- INFORMATION SHOWN ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING DETERMINATION OF TYPE AND LOCATION OF ALL UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.
- FIELD VERIFY LOCATION OF ALL UTILITIES PRIOR TO BEGINNING WORK. ANY INTERFERENCE SHALL BE BROUGHT TO ATTENTION OF THE ARCHITECT AND ENGINEER FOR DIRECTION.
- PROVIDE EQUIPMENT GROUNDING CONDUCTOR THROUGHOUT EACH BRANCH CIRCUIT. CONDUCTOR MAY NOT BE INDICATED GRAPHICALLY.
- ALL STREET LIGHTING FIXTURES AND INSTALLATIONS SHALL BE 240V, SINGLE-PHASE, AND INSTALLED IN ACCORDANCE WITH THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL SECTION 5800.
- STREET LIGHTING CIRCUITS SHALL BE FED FROM EXISTING EVERGY UTILITY SOURCE.
- STREET LIGHTING CIRCUITS SHALL BE 2 X #6 XLP-USE, #10 GND IN 1" CONDUIT.
- EXTEND APRON LIGHTING CIRCUIT FROM NORTHERN APRON LIGHT TO POWER SOUTHERN APRON LIGHT. APRON LIGHTING CIRCUIT SHALL BE 2 X #4 XLP-USE, 1 X #6 GROUND IN UNIT DUCT. CONTRACTOR SHALL CONNECT NEW CIRCUIT GROUND CONDUCTOR TO EXISTING POLE GROUND LUG.
- ALL STREET LIGHT POLES MUST BE INSTALLED A MINIMUM OF 3' FROM THE CURB, WHERE APPLICABLE.
- INSTALL NEW METER PEDESTAL FOR STREET LIGHTING SERVICE. PEDESTAL SHALL INCLUDE METER SOCKET AND POWER SUPPLY AS SHOWN ON DETAILS, AND IN ACCORDANCE WITH CITY OF LEE'S SUMMIT STANDARDS.

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Development Services Department  
Lee's Summit, Missouri  
10/01/2024



1627 MAIN STREET, SUITE 600  
KANSAS CITY, MO 64108



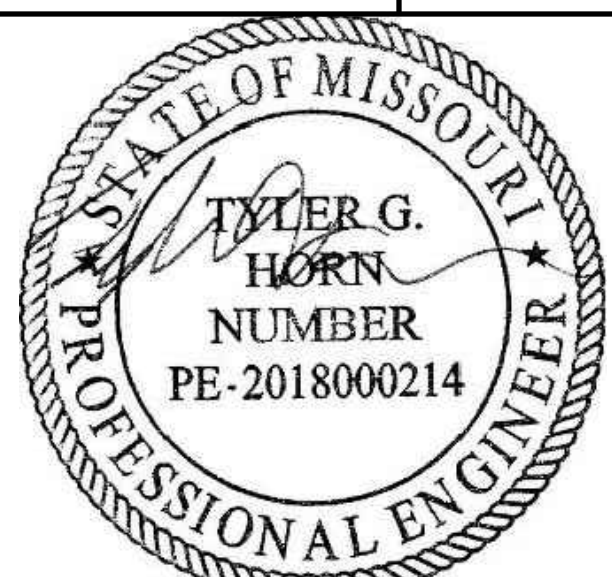
1627 MAIN STREET, #100  
KANSAS CITY, MO 64108



1301 BURLINGTON STREET  
NORTH KANSAS CITY, MO 64116

LEE'S SUMMIT MUNICIPAL AIRPORT  
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT  
CITY PROJECT NO. - 47732472



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JANUARY 4, 2024

LEE'S SUMMIT MUNICIPAL AIRPORT  
LEE'S SUMMIT, MO

08/13/24 REVISION 4

MARK DATE DESCRIPTION

PROJECT NO.: 47732472  
CAD DWG FILE: LIGHTING SITE PLAN  
DESIGNED BY: WLC  
DRAWN BY: WLC  
CHECKED BY: JRC  
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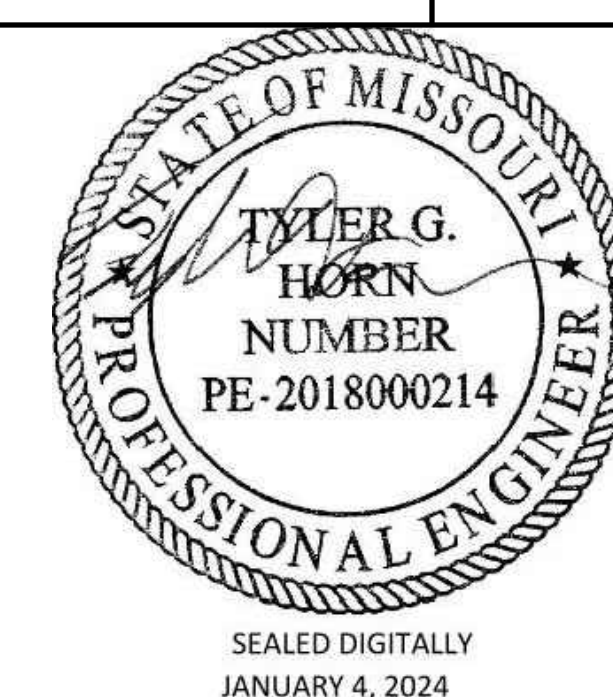
SHEET TITLE

LIGHTING SITE PLAN

C135

SHEET 048 OF 133



LEE'S SUMMIT MUNICIPAL AIRPORT  
LEE'S SUMMIT, MISSOURI  
EASTSIDE DEVELOPMENT  
CITY PROJECT NO. - 47732472LEE'S SUMMIT MUNICIPAL AIRPORT  
LEE'S SUMMIT, MO

09/13/24 REVISION 4

MARK DATE DESCRIPTION

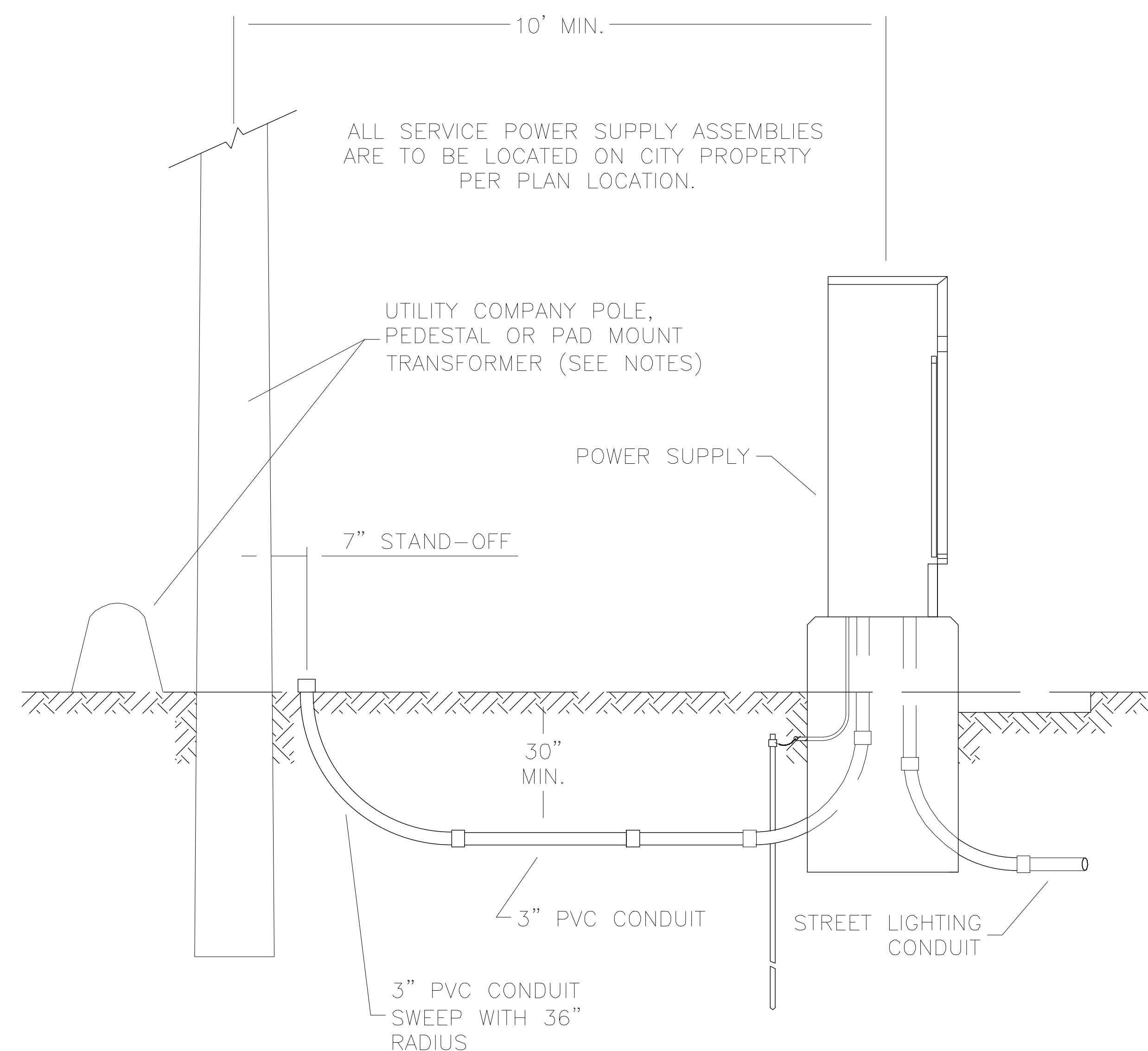
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CAD DWG FILE: LIGHTING SITE PLAN  
DESIGNED BY: WLC  
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LIGHTING PEDESTAL  
DETAILS

C136A

SHEET OF 133

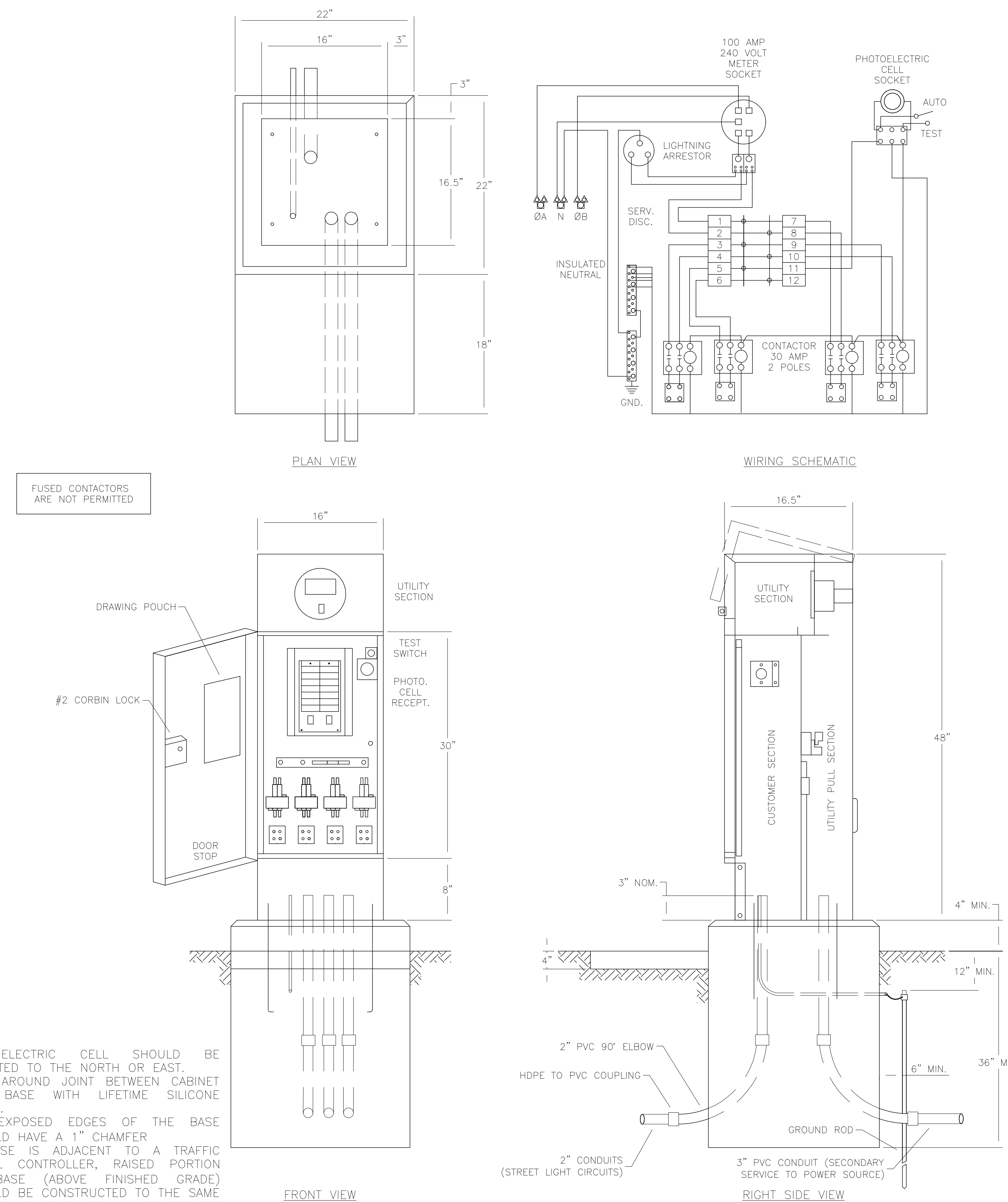


## NOTES:

- CONTRACTOR SHALL INSTALL A CONDUIT STUB 24" TO 6" ABOVE GROUND AT UTILITY POLES. CONDUIT SHALL BE STUBBED TO THE SIDE OF THE POLE THAT WILL ALLOW A DIRECT RUN UP THE POLE TO THE TRANSFORMER WITHOUT CROSSING OTHER UTILITY LINES OR CABLES. THE END OF THE CONDUIT SHALL BE CAPPED.
- CONTRACTOR SHALL INSTALL CONDUIT IN A TRENCH TO WITHIN 24" OF PEDESTALS OR PAD MOUNT TRANSFORMERS AND LEAVE A 36" X 36" X 36" ACCESS HOLE IN THE GROUND. CONTRACTOR SHALL KEEP OPEN TRENCH COVERED AND PROMPTLY BACKFILL ACCESS HOLE WHEN SERVICE IS COMPLETED.

## 1 SECONDARY SERVICE CONNECTION DETAILS

NOT TO SCALE

FUSED CONTACTORS  
ARE NOT PERMITTED

## NOTES:

- PHOTOELECTRIC CELL SHOULD BE ORIENTED TO THE NORTH OR EAST.
- SEAL AROUND JOINT BETWEEN CABINET AND BASE WITH LIFETIME SILICONE CAULK.
- ALL EXPOSED EDGES OF THE BASE SHOULD HAVE A 1" CHAMFER.
- IF BASE IS ADJACENT TO A TRAFFIC SIGNAL CONTROLLER, RAISED PORTION OF BASE (ABOVE FINISHED GRADE) SHOULD BE CONSTRUCTED TO THE SAME HEIGHT AS THE SIGNAL CONTROLLER BASE.
- THE STREET ADDRESS WITH THE POWER SUPPLY NUMBER BELOW IT SHOULD BE LABELED ON THE UPPER PORTION OF THE CABINET FACING THE STREET. THE CONTRACTOR WILL SUPPLY AND INSTALL STICKERS.

## 2 4-CIRCUIT POWER SUPPLY DETAIL

NOT TO SCALE

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As Noted on Plan ReviewDevelopment Services Department  
Lee's Summit, Missouri  
10/01/2024







LEE'S SUMMIT MUNICIPAL AIRPORT  
LEE'S SUMMIT, MISSOURI

EASTSIDE DEVELOPMENT  
CITY PROJECT NO. - 47732472



LEE'S SUMMIT MUNICIPAL AIRPORT  
LEE'S SUMMIT, MO

9 09/13/24 REVISION 4

MARK DATE DESCRIPTION

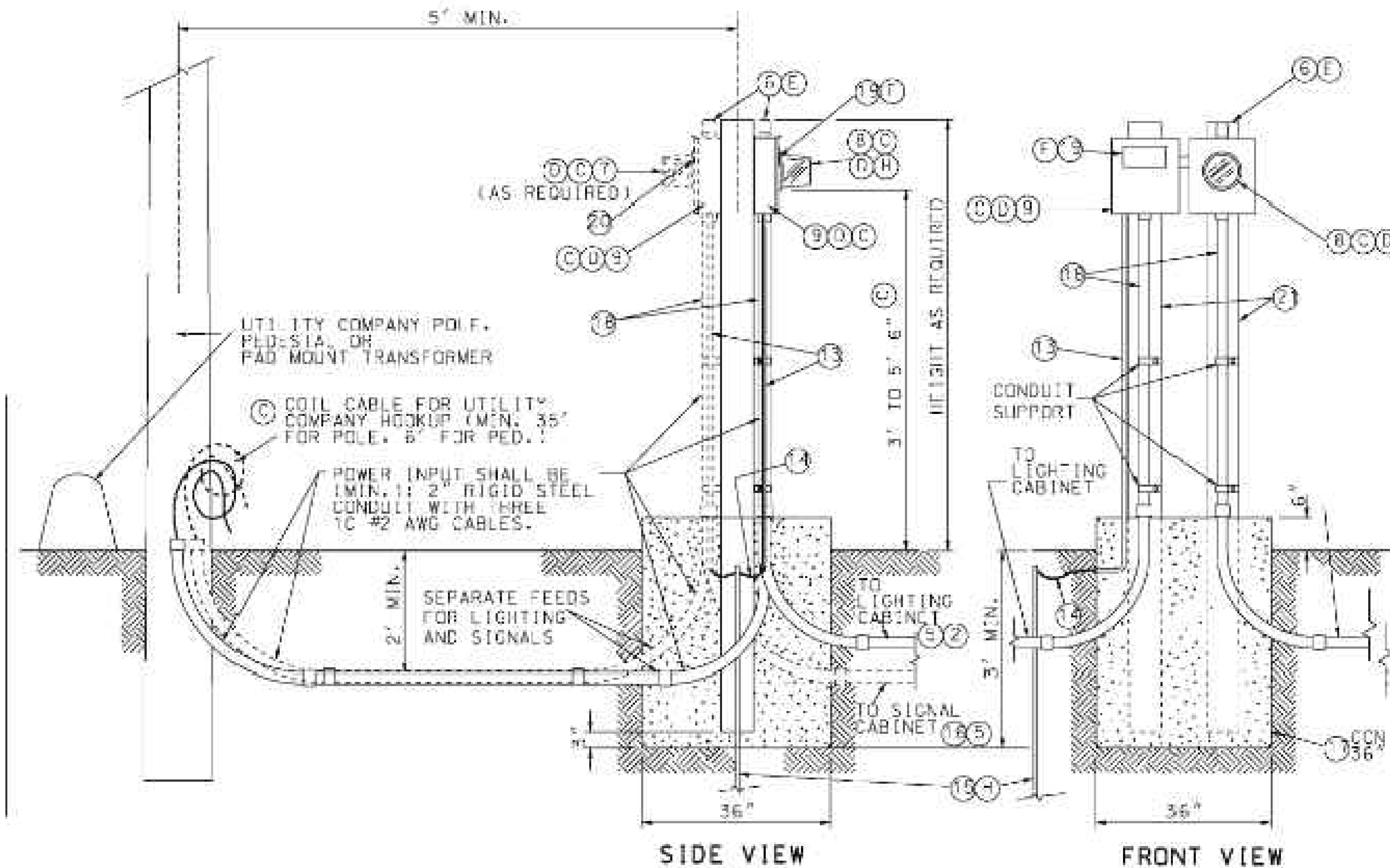
PROJECT NO: 47732472  
CAD DWG FILE: LIGHTING SITE PLAN  
DESIGNED BY: WLC  
DRAWN BY: WLC  
CHECKED BY: JRC  
APPROVED BY: TGH  
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SHEET TITLE

LIGHTING PEDESTAL  
DETAILS III

C136B

SHEET OF 133



1 PHOTOELECTRIC CELL WIRING DIAGRAM

NOT TO SCALE

POLE WIRING NOTES

- POLE WIRING PEDESTAL AND RISER DETAILS ARE DERIVED FROM MODOT STANDARD PLANS FOR HIGHWAY CONSTRUCTION.

LIST OF MATERIALS	
ITEM	DESCRIPTION
1	SERVICE POLE 30' MIN., CLASS 4 WOOD, CONTRACTOR PROVIDED, MODOT OWNED*
2	#2 AWG MIN. CABLE, 600 VOLT *
3	SERVICE ENTRANCE HEAD
4	GUY CABLE, AS REQUIRED
5	RIGID CONDUIT, 2" MIN., WITH PREFORMED ELBOWS
6	LIGHTNING ARRESTER, VALVE TYPE, 2 POLE, 600 VOLT
7	METER SOCKET, 200 AMP, FOR SIGNALS
8	METER SOCKET, 200 AMP, FOR LIGHTING
9	LOCKING, RAINIGHT, NEMA 4 SERVICE DISCONNECT BOX
10	INSULATED, GROUNDABLE NEUTRAL WIRE, 200 AMP MINIMUM
11	SIGNAL BREAKERS, SINGLE POLE, 40A MIN, TYPE A OR B *
12	LIGHTING BREAKER, 2 POLE, 240 VOLT, 100A, TYPE A OR B
13	1/2" METAL CONDUIT
14	#2 AWG MIN. GROUND WIRE
15	GROUND ROD, 3/4" x 8' MIN.
16	#8 AWG MIN. CABLE, 600 VOLT *
17	CLASS B CONCRETE, 0.92 C.Y. ±
18	THREADED CONDUIT HUB WITH SEALING WASHERS
19	WEATHERPROOF ADHESIVE LABEL (LIGHTING), VINYL RAISED LETTERING (OR EQUIVALENT, SEE DETAIL)
20	WEATHERPROOF ADHESIVE LABEL (SIGNALS), VINYL RAISED LETTERING (OR EQUIVALENT, SEE DETAIL)
21	W6 x 9 OR W6 x 15 GALVANIZED POST
22	#2 AWG MIN. CABLE, 600 VOLT
23	RIGID CONDUIT, 2" MINIMUM
*	SEE PLANS

RELEASED FOR CONSTRUCTION  
As Noted on Plan Review

Development Services Department  
Lee's Summit, Missouri  
10/01/2024