# Replace Parking Lot Missouri State Highway Patrol-Troop A Super Site Lee's Summit, Missouri

PROJECT MANAGEMENT PROVIDED BY THE OFFICE OF ADMINISTRATION, DIVISION OF FACILITIES MANAGEMENT DESIGN AND CONSTRUCTION, PROJECT MANAGEMENT UNIT PROJECT DESIGN PROVIDED BY THE OFFICE OF ADMINISTRATION, DIVISION OF FACILITIES MANAGEMENT DESIGN AND CONSTRUCTION, PROJECT DESIGN UNIT

OWNER: STATE OF MISSOURI

MICHAEL L. PARSON, GOVERNOR

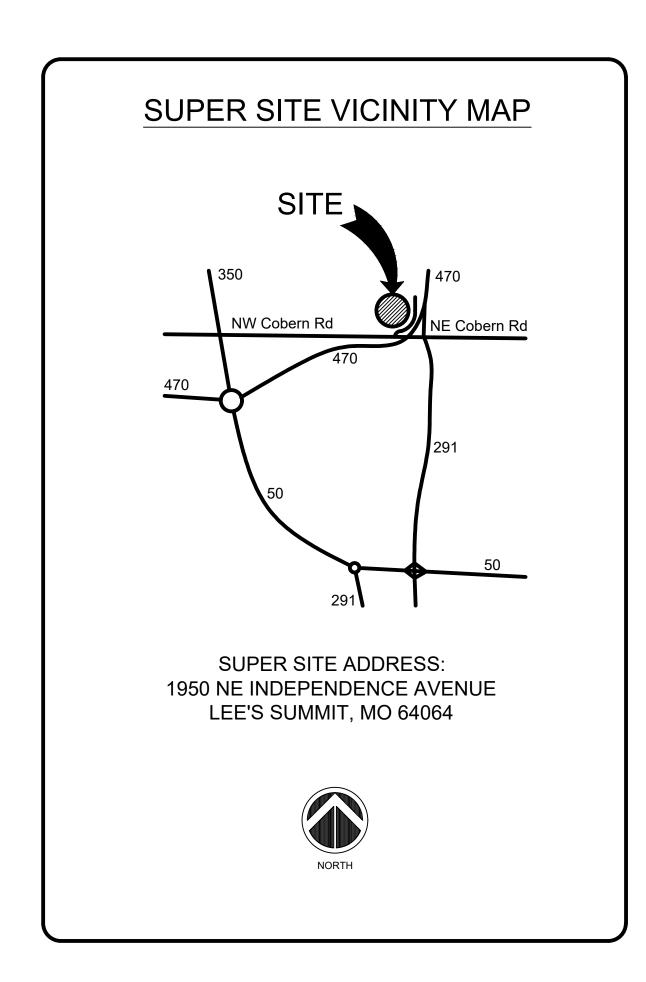
DEPARTMENT OF PUBLIC SAFETY MISSOURI STATE HIGHWAY PATROL

MANAGER: OFFICE OF ADMINISTRATION

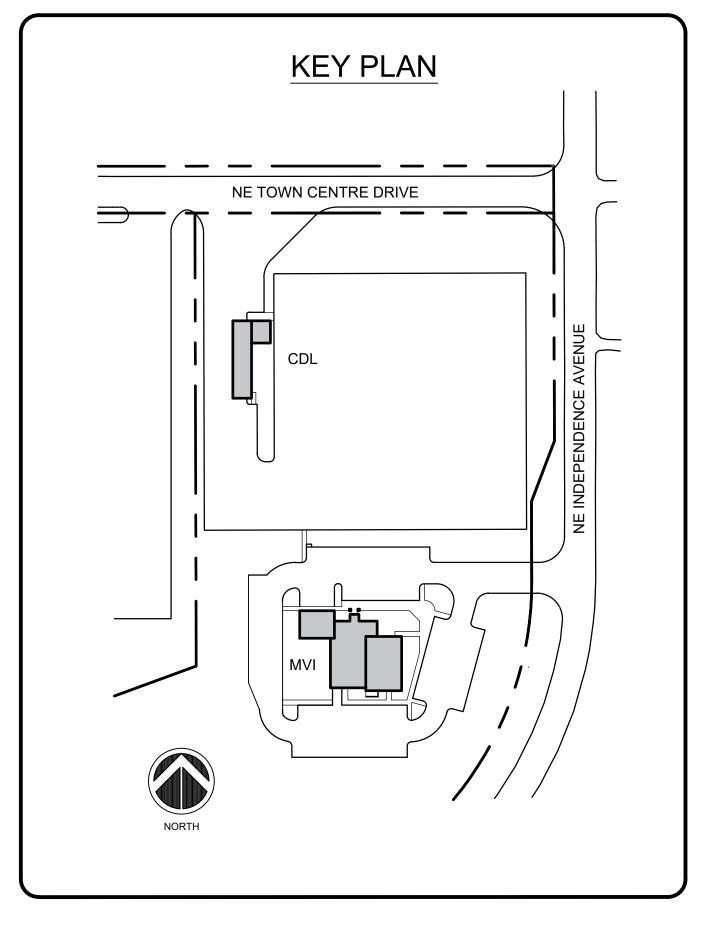
FACILITIES MANAGEMENT DESIGN AND CONSTRUCTION 301 WEST HIGH STREET JEFFERSON CITY, MO 65102

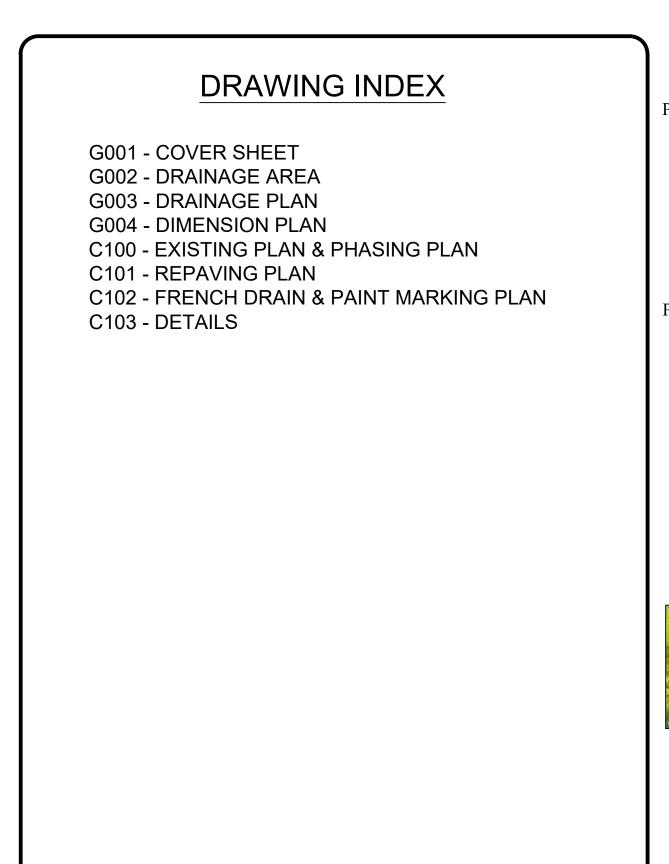
SITE NUMBER: 6018 ASSET NUMBERS: 8136018019 and 8136018020

6018019 and 8136018020 PROJECT NUMBER: R2334-01









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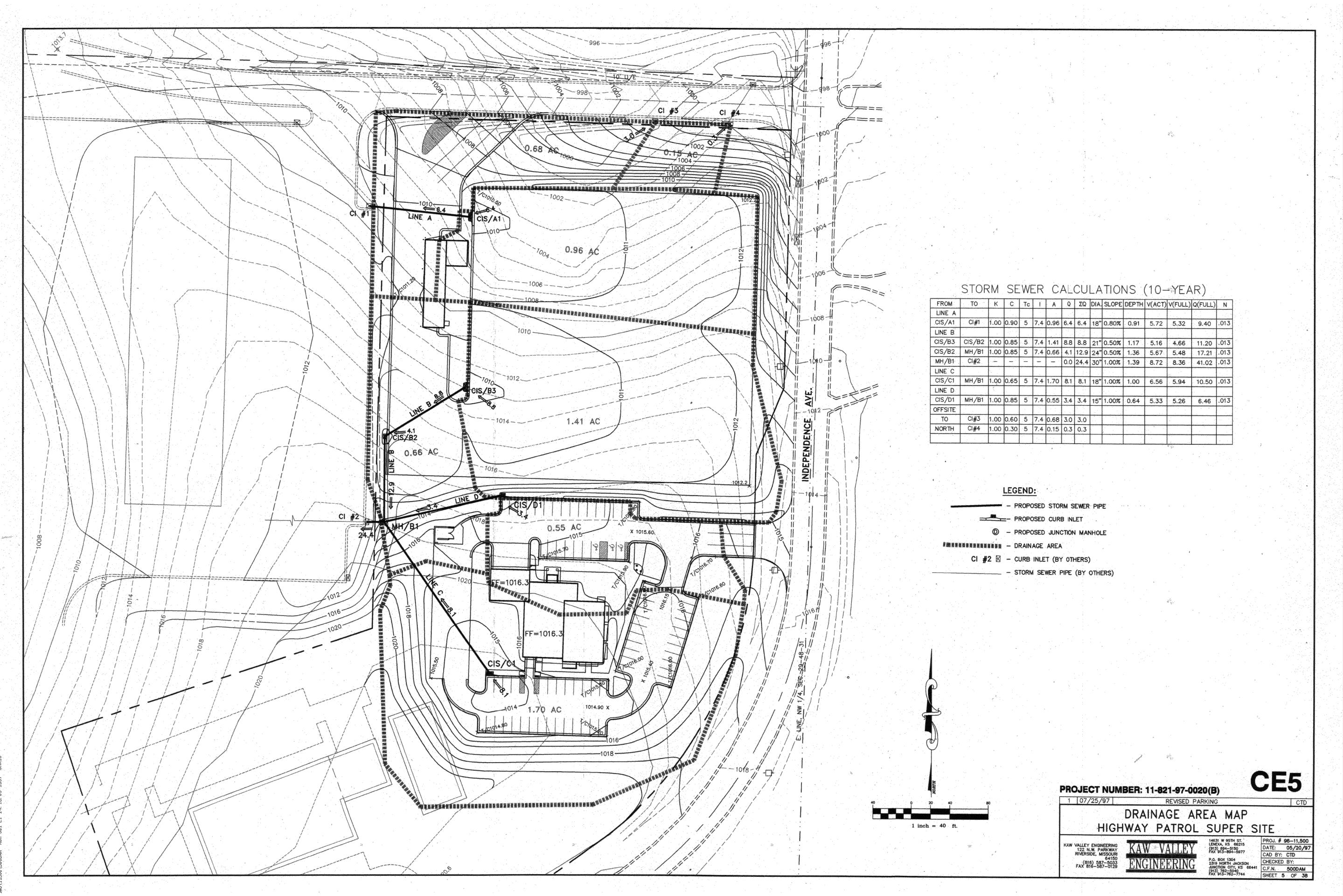
JEFFERSON CITY, MO 65102 michael.berendzen@oa.mo.gov 573-751-7095



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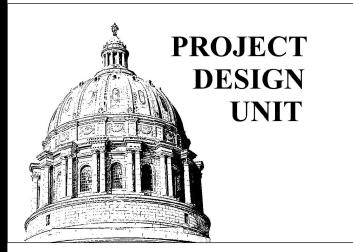
G001

1 OF 8 SHEETS



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STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



#### **OFFICE OF ADMINISTRATION**

DIVISION OF FACILITIES MANAGEMENT DESIGN AND CONSTRUCTION

DEPARTMENT OF PUBLIC SAFETY MISSOURI STATE HIGHWAY PATROL

REPLACE PARKING LOT

MSHP-TROOP A SUPER SITE

1950 NE INDEPENDENCE AVE LEE'S SUMMIT, MISSOURI

8136018020

PROJECT # R2334-01 SITE # 6018 ASSET # 8136018019

REVISION: XXX

DATE: 99/99/9999

REVISION: XXX

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REVISION: XXX

REVISION: XXX DATE: 99/99/9999 ISSUE DATE: 01/05/24

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DESIGNED BY: MLB

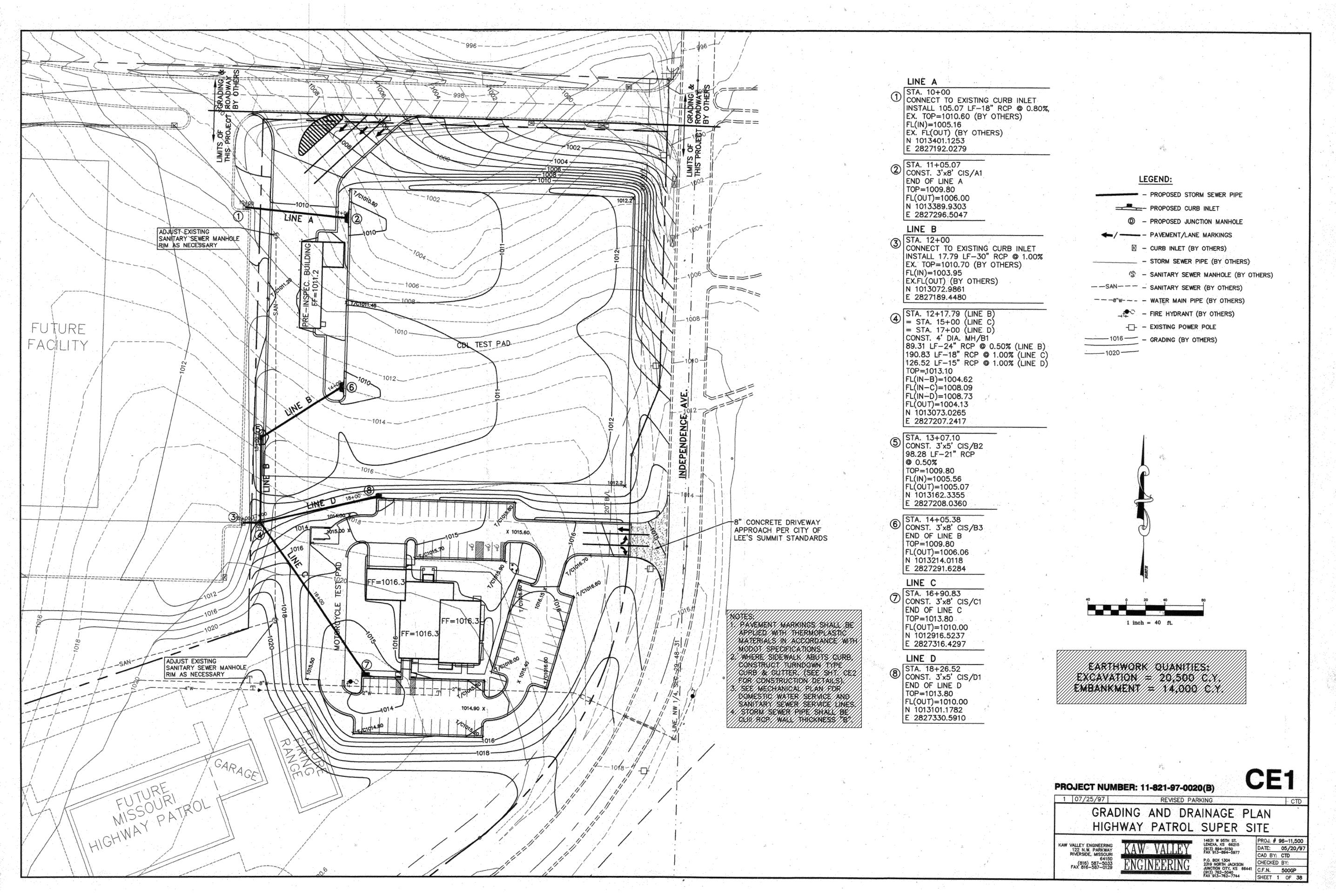
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DRAINAGE AREA

SHEET NUMBER:

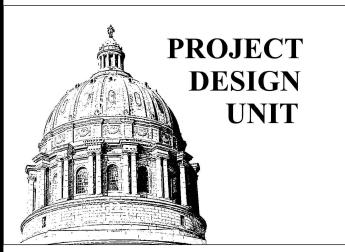
G002

2 OF 8 SHEETS



DRAWING CE1 IS ONE OF THE CONSTRUCTION DOCUMENTS USED FOR THE CONSTRUCTION OF THE EXISTING FACILITY. DRAWING CE1 DOES NOT SHOW ANY NEW WORK TO BE COMPLETED IN THIS PROJECT. THE DRAWING IS INCLUDED FOR REFERENCE AND INFORMATIONAL PURPOSES ONLY. IT SHOULD ONLY BE USED TO IDENTIFY EXISTING CONDITIONS TO BE MATCHED.

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REPLACE PARKING LOT

MSHP-TROOP A SUPER SITE

1950 NE INDEPENDENCE AVE LEE'S SUMMIT, MISSOURI

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R2334-01 6018 8136018019

8136018020 XXX 99/99/9999

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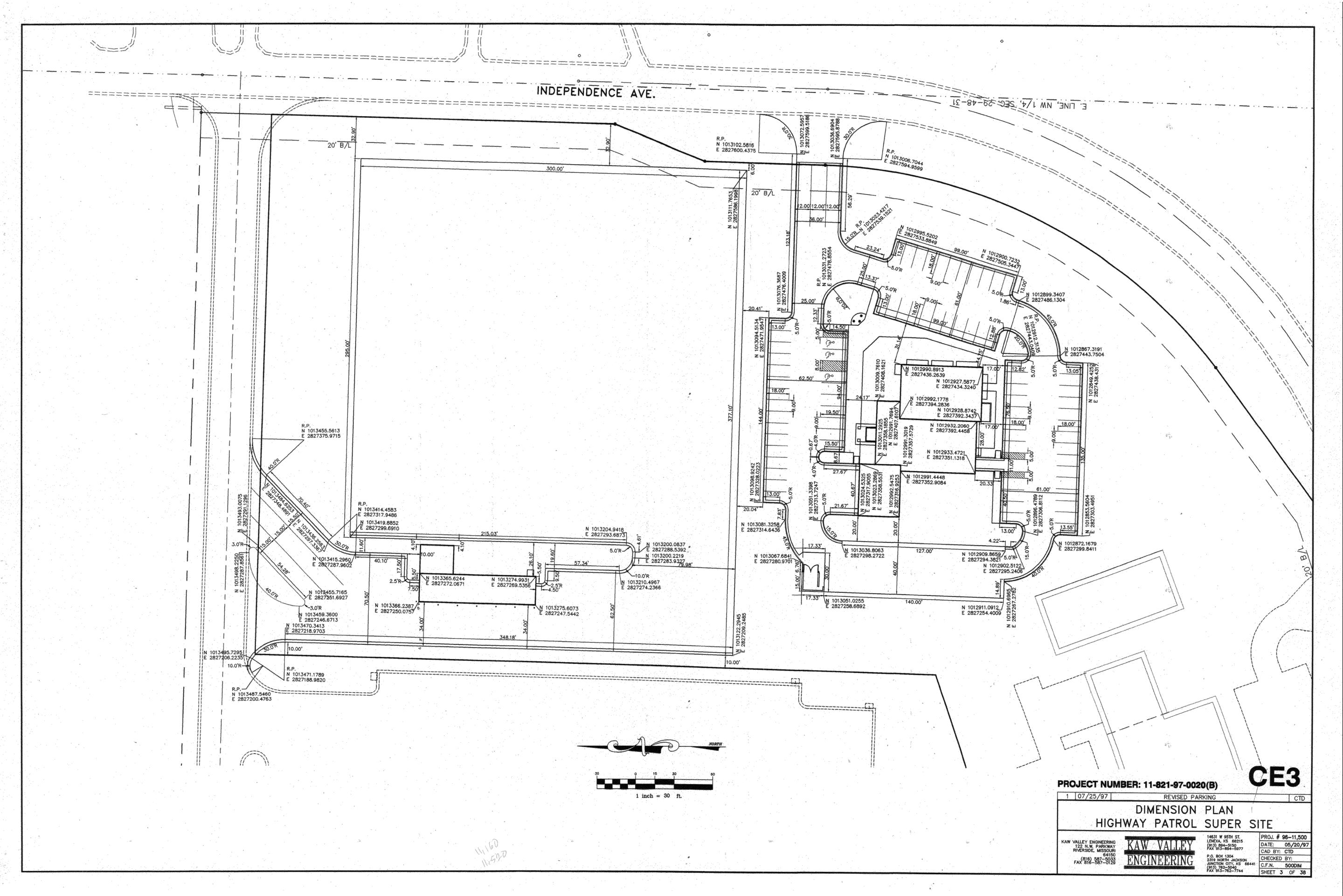
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DRAINAGE PLAN

SHEET NUMBER:

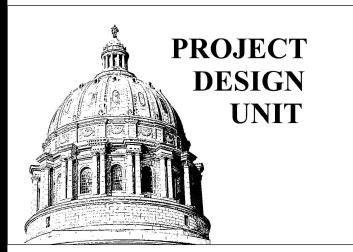
G003

3 OF 8 SHEETS



DRAWING CE3 IS ONE OF THE CONSTRUCTION DOCUMENTS USED FOR THE CONSTRUCTION OF THE EXISTING FACILITY. DRAWING CE3 DOES NOT SHOW ANY NEW WORK TO BE COMPLETED IN THIS PROJECT. THE DRAWING IS INCLUDED FOR REFERENCE AND INFORMATIONAL PURPOSES ONLY. IT SHOULD ONLY BE USED TO IDENTIFY EXISTING CONDITIONS TO BE MATCHED.

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



#### OFFICE OF ADMINISTRATION

DIVISION OF FACILITIES MANAGEMENT DESIGN AND CONSTRUCTION

DEPARTMENT OF PUBLIC SAFETY MISSOURI STATE HIGHWAY PATROL

REPLACE PARKING LOT MVI

MHSP-TROOP A SUPER SITE

1950 NE INDEPENDENCE AVE LEE'S SUMMIT, MISSOURI

PROJECT #
SITE #
ASSET #

R2334-01 6018

8136018019 8136018020

 REVISION:
 XXX

 DATE:
 99/99/9999

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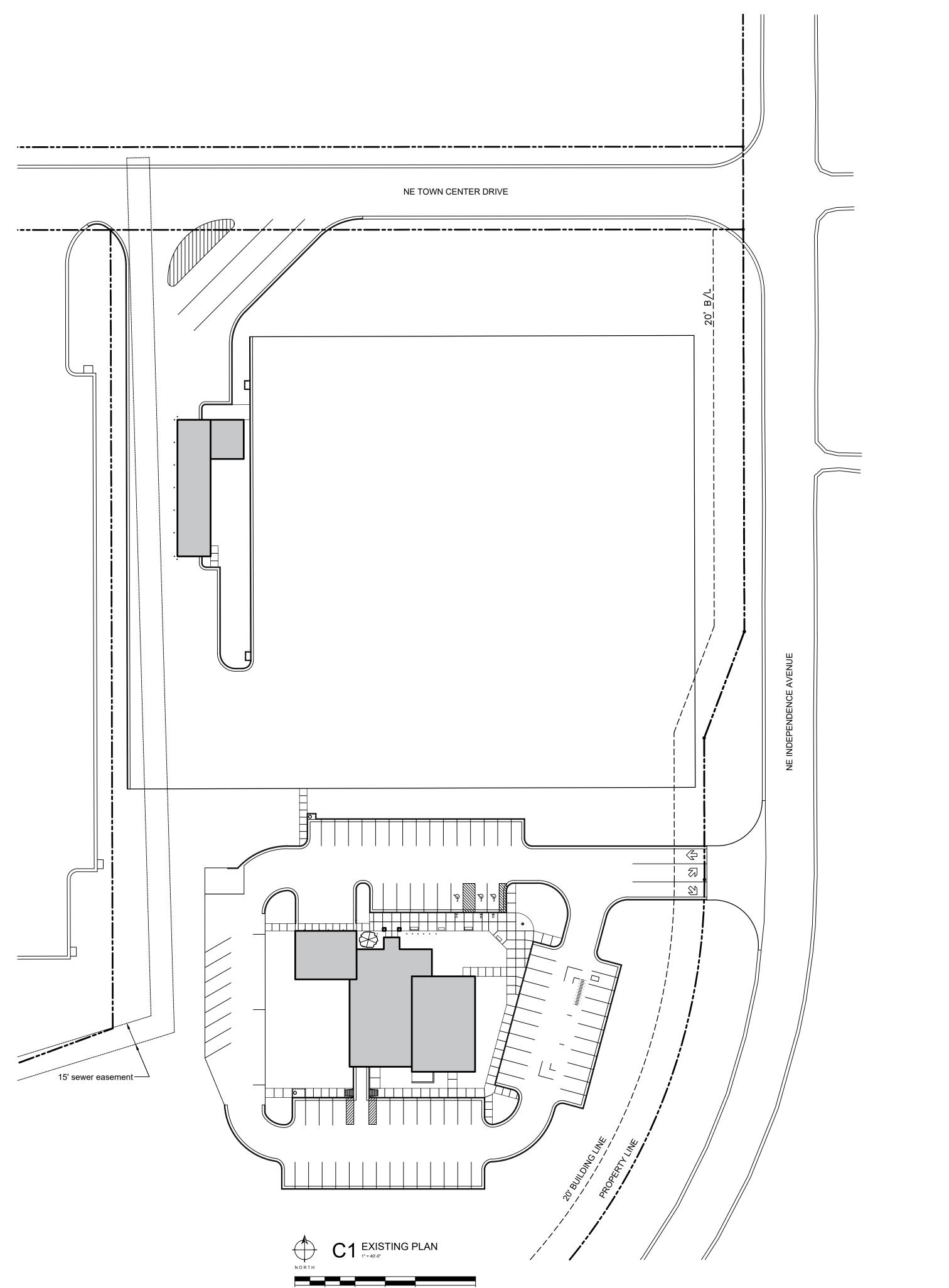
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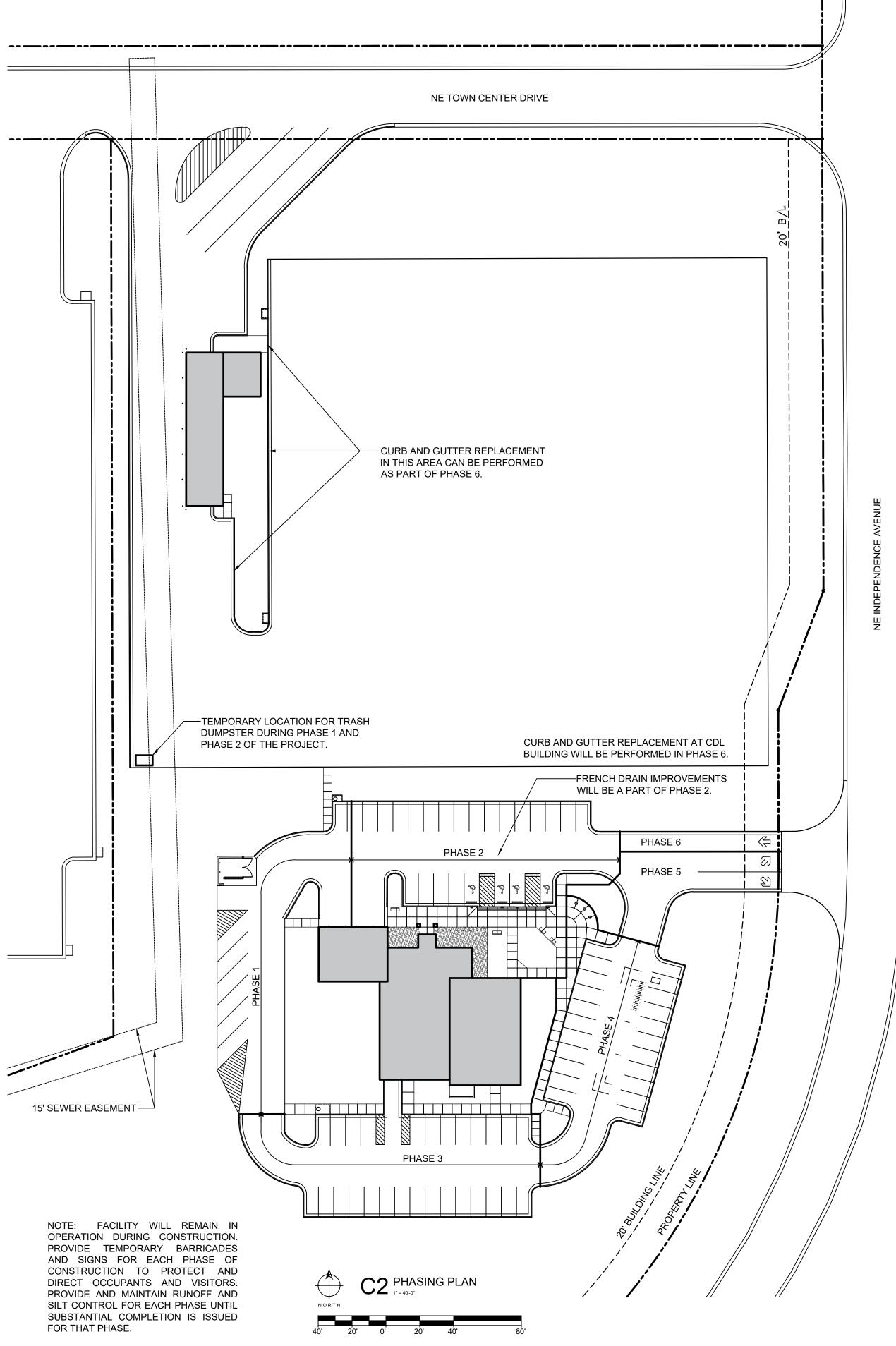
**DIMENSION PLAN** 

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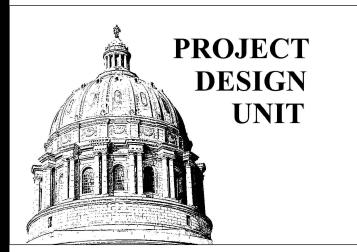
G004

4 OF 8 SHEETS





STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



#### OFFICE OF ADMINISTRATION

DIVISION OF FACILITIES MANAGEMENT DESIGN AND CONSTRUCTION

DEPARTMENT OF PUBLIC SAFETY MISSOURI STATE HIGHWAY PATROL

REPLACE PARKING LOT

MSHP-TROOP A SUPER SITE

1950 NE INDEPENDENCE AVE LEE'S SUMMIT, MISSOURI

PROJECT # R2334-01 SITE # 6018 ASSET # 8136018019 8136018020

 REVISION:
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CAD DWG FILE: R2334-01
DRAWN BY: MLB
CHECKED BY: MLB

01/05/24

SHEET TITLE:

DESIGNED BY:

ISSUE DATE:

EXISTING PLAN

PHASING PLAN

SHEET NUMBER:

C100

5 OF 8 SHEETS

#### **CONSTRUCTION NOTES:**

#### 1. REPLACE ALL EXISTING ASPHALT PAVING WITH CONCRETE

- 2. REPLACE ALL EXISTING GRANULAR FILL. GRADE NEW
- GRANULAR FILL AS REQUIRED TO IMPROVE SURFACE 3. REPLACE ALL EXISTING CONCRETE CURB AND GUTTER.
- EXISTING DROP INLETS TO REMAIN.
- 4. REPLACE ALL EXISTING SIDEWALKS.
- 5. INSTALL TWO (2) NEW 25' FLAGPOLES AND ONE (1) NEW 30' FLAGPOLE WHERE SHOWN. RELOCATE GROUND LIGHT TO
- BASE OF 30' FLAGPOLE. 6. REINSTALL BENCHES WHERE SHOWN.
- . INSTALL FOUR (4) NEW ADA PARKING SIGNS AS SHOWN. REINSTALL ALL OTHER SIGNS THAT HAVE BEEN REMOVED TO ALLOW FOR REPAVING WORK.
- 8. INSTALL BOLLARD COVERS ON ALL NEW AND EXISTING BOLLARDS.
- 9. PAINT MARKINGS FOR PARKING AND TESTING ON NEW PAVING. 10. EXCAVATE AND CREATE FRENCH DRAIN AT BUILDING ENTRANCE WHERE SHOWN.
- 11. REPLACE THRESHOLD OF EXTERIOR DOUBLE-DOOR TO STORAGE ROOM.
- 12. CONSTRUCT TRASH SCREEN.

1. REPLACE A PORTION OF THE CONCRETE CURB AND GUTTER WHERE SHOWN.

#### **DEMOLITION NOTES:**

- MVI SITE: 1. REMOVE ALL EXISTING ASPHALT PAVING.
- 2. REMOVE ALL EXISTING GRANULAR FILL. . REMOVE ALL EXISTING CONCRETE CURB AND GUTTER. EXISTING DROP INLETS TO REMAIN.
- REMOVE ALL EXISTING SIDEWALKS. 5. REMOVE EXISTING 25' FLAGPOLE. 6. REMOVE EXISTING BENCHES AND STORE FOR REINSTALLATION.
- REMOVE EXISTING ADA PARKING SIGNS. 8. REMOVE MISCELLANEOUS DIRECTIONAL OR INSTRUCTIONAL SIGNS NECESSARY TO ACCOMPLISH REPAVING WORK AND
- STORE FOR REINSTALLATION. 9. REMOVE EXISTING TREE WHERE FRENCH DRAIN IS TO BE
- CREATED AT THE BUILDING ENTRANCE. BOLLARDS ARE TO REMAIN IN PLACE. 10. REMOVE DAMAGED THRESHOLD AT EXTERIOR DOUBLE-DOOR
- TO STORAGE ROOM.

#### **CDL SITE:** I. REMOVE EXISTING CURB AND GUTTER WHERE A PORTION OF

THE CONCRETE CURB AND GUTTER IS SHOWN TO BE REPLACED.

NORTH

#### **GENERAL NOTES:**

- I. SEE PHASING PLAN FOR PROGRESSION OF WORK. DO NOT PROCEED TO NEXT PHASE UNTIL PREVIOUS PHASE IS SUBSTANTIALLY COMPLETE. 2. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL UTILITIES PRIOR TO COMMENCEMENT
- OF CONSTRUCTION OPERATIONS. CONTACT MISSOURI-811 PRIOR TO START OF CONTRACTOR SHALL LIMIT OPERATION OF HEAVY EQUIPMENT TO AREAS OF
- PROPOSED PAVEMENT REPLACEMENT. . PERFORM TEMPORARY EROSION CONTROL MEASURES IN ACCORDANCE WITH ALL
- APPLICABLE REQUIREMENTS. TEMPORARY EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL PERMANENT IMPROVEMENTS ARE IN PLACE.
- 5. DIMENSIONS ARE SHOWN TO BACK OF CURB. 6. RADII (RADIUSES) ARE SHOWN TO BACK OF CURB.

SPACING OF 50 FEET FOR STRAIGHT RUNS.

- 7. CONSTRUCT ALL SIDEWALKS WITH 1:48 (2%) MAXIMUM SLOPE AWAY FROM BUILDING. 8. GRADE AND CONSTRUCT ALL PAVEMENT TO ENSURE POSITIVE DRAINAGE TO EXISTING DROP INLETS.
- 9. PLACE CONTROL JOINTS IN SIDEWALKS AS SHOWN, CREATING APPROXIMATELY 6'X6' SQUARES.
- 10.PLACE EXPANSION JOINTS IN SIDEWALKS AT ALL DIRECTION CHANGES, WHEN ADJACENT TO THE BUILDING, WHEN ADJACENT TO CURBS, AND AT A MAXIMUM
- 11. PLACE CONTROL JOINTS IN PARKING LOT PAVEMENT TO CREATE APPROXIMATELY 10'X10' SQUARES. 12. PLACE EXPANSION JOINTS IN PARKING LOT PAVEMENT AT A MAXIMUM SPACING OF 50
- 13. STRIPE PARKING LOT AS SHOWN.
- 14. STOCKPILE EXCAVATION MATERIAL FROM FRENCH DRAIN EXCAVATION FOR USE AS CURB BACKFILL. BACKFILL CURBS AND SMOOTH OUT ANY RUTS CAUSED BY CONSTRUCTION ACTIVITIES. SEED DISTURBED LAWN AREAS.

EJ DENOTES EXPANSION JOINT.

15. SEE SHEET G002, DRAINAGE AREA MAP, AND SHEET G003, DRAINAGE PLAN. NEW CONSTRUCTION SHALL MATCH CONDITIONS AS ORIGINALLY DESIGNED AND CONSTRUCTED.

#### **ADA NOTES:**

- COMPLY WITH ALL APPLICABLE ADA STANDARDS FOR ACCESSIBLE DESIGN. 2. THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN
- 3. THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48. 4. RAMP RUNS SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12.
- 5. IN EXISTING SITES, BUILDINGS, AND FACILITIES, RAMPS SHALL BE PERMITTED TO HAVE RUNNING SLOPES STEEPER THAN 1:12 WHERE SUCH SLOPES ARE NECESSARY DUE TO SPACE LIMITATIONS.
- MAXIMUM RAMP SLOPE SHALL NOT EXCEED 1:8 FOR A 3" RISE. MAXIMUM RAMP SLOPE SHALL NOT EXCEED 1:10 FOR A 6" RISE.

PROVIDED AND SHALL NOT BE STEEPER THAN 1:12.

- 6. CROSS SLOPE OF RAMP RUNS SHALL NOT BE STEEPER THAN 1:48. 7. CHANGES IN LEVEL OTHER THAN THE RUNNING SLOPE AND CROSS SLOPE ARE NOT PERMITTED ON RAMP RUNS.
- 8. COUNTER SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE CURB RAMP SHALL NOT BE STEEPER THAN 1:20. THE ADJACENT SURFACES AT TRANSITIONS AT CURB RAMPS TO WALKS, GUTTERS, AND STREETS SHALL BE AT THE SAME LEVEL
- 9. CURB RAMP FLARES SHALL NOT BE STEEPER THAN 1:10. 10. LANDINGS SHALL BE PROVIDED AT THE TOPS OF CURB RAMPS. THE LANDING CLEAR LENGTH SHALL BE 36 INCHES MINIMUM. THE LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE CURB RAMP, EXCLUDING FLARED SIDES, LEADING TO THE LANDING. EXCEPTION: IN ALTERATIONS, WHERE THERE IS NO LANDING AT THE TOP OF CURB RAMPS, CURB RAMP FLARES SHALL BE

#### PARKING SPACES:

- NORTH LOT: 21 STANDARD SPACES 4 ADA SPACES
- EAST LOT: 22 STANDARD SPACES
- SOUTH LOT: 27 STANDARD SPACES WEST LOT:
- 6 ANGLED SPACES

76 STANDARD SPACES

- 4 ADA SPACES **GRAND TOTAL:**

#### 80 PARKING SPACES

REFER TO PLAN ON THIS SHEET FOR LAYOUT OF PARKING LOT STRIPES IN EACH PARKING LOT.

PARKING LOT STRIPING:

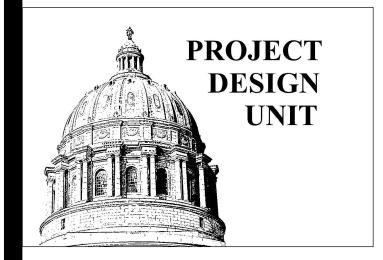
- 2. PARKING SPACE STRIPES SHALL BE 4" WIDE BY 18'-0" LONG. B. REFER TO PLAN ON THIS SHEET FOR LOCATION OF MOTORCYCLE TEST
- MARKINGS IN EAST PARKING LOT. 4. SEE SHEET C102 FOR LAYOUT OF MOTORCYCLE TEST MARKINGS AND FOR OTHER MARKINGS.

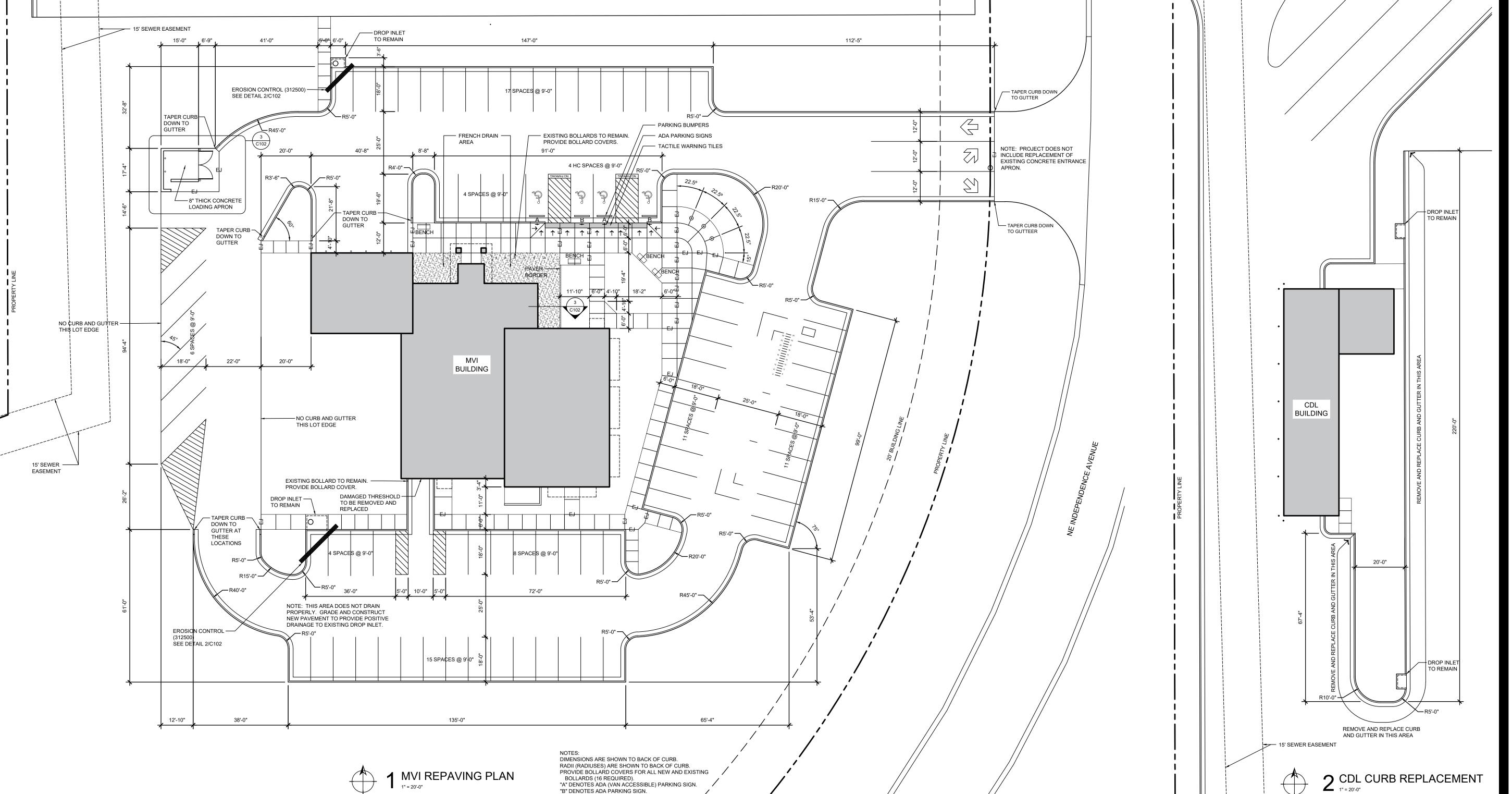
#### **SPECIFICATION REFERENCES:**

CONCRETE MASONRY UNITS ARE SPECIFIED IN SECTION 042200 MISCELLANEOUS STEEL IS SPECIFIED IN 055000 CEDAR SIDING IS SPECIFIED IN SECTION 062013 SHEET METAL COPING IS SPECIFIED IN SECTION 076200 PAINT FOR EXTERIOR STEEL IS SPECIFIED IN SECTION 099113 SIGNS ARE SPECIFIED IN SECTION 101426 POSTS FOR SIGNS ARE SPECIFIED IN SECTION 101426 FLAGPOLES ARE SPECIFIED IN SECTION 107516 CRUSHED ROCK BASE IS SPECIFIED IN SECTION 312000 CONCRETE PAVING IS SPECIFIED IN SECTION 321313 THRESHOLD IS SPECIFIED IN SECTION 087100 STAIN FOR WOOD SIDING IS SPECIFIED IN SECTION 099300 EROSION CONTROL IS SPECIFIED IN SECTION 312500 CONCRETE PAVING IS SPECIFIED IN SECTION 321313 REINFORCING STEEL IS SPECIFIED IN SECTION 321313 EXPANSION MATERIAL IS SPECIFIED IN SECTION 321313 JOINT SEALANT IS SPECIFIED IN SECTION 321373 UNIT PAVING IS SPECIFIED IN SECTION 321400 PARKING BUMPERS ARE SPECIFIED IN SECTION 321713 PAVEMENT MARKINGS ARE SPECIFIED IN SECTION 321723 TACTILE WARNING TILES ARE SPECIFIED IN SECTION 321726 PVC DRAIN TILE IS SPECIFIED IN SECTION 334200

BOLLARD COVERS ARE SPECIFIED IN SECTION 347113

#### STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**





#### OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT

DESIGN AND CONSTRUCTION

#### **DEPARTMENT OF PUBLIC SAFETY** MISSOURI STATE HIGHWAY PATROL

#### REPLACE PARKING

MSHP-TROOP A SUPER SITE

#### 1950 NE INDEPENDENCE AVE LEE'S SUMMIT, MISSOURI

R2334-01 PROJECT # 6018 ASSET# 8136018019

8136018020

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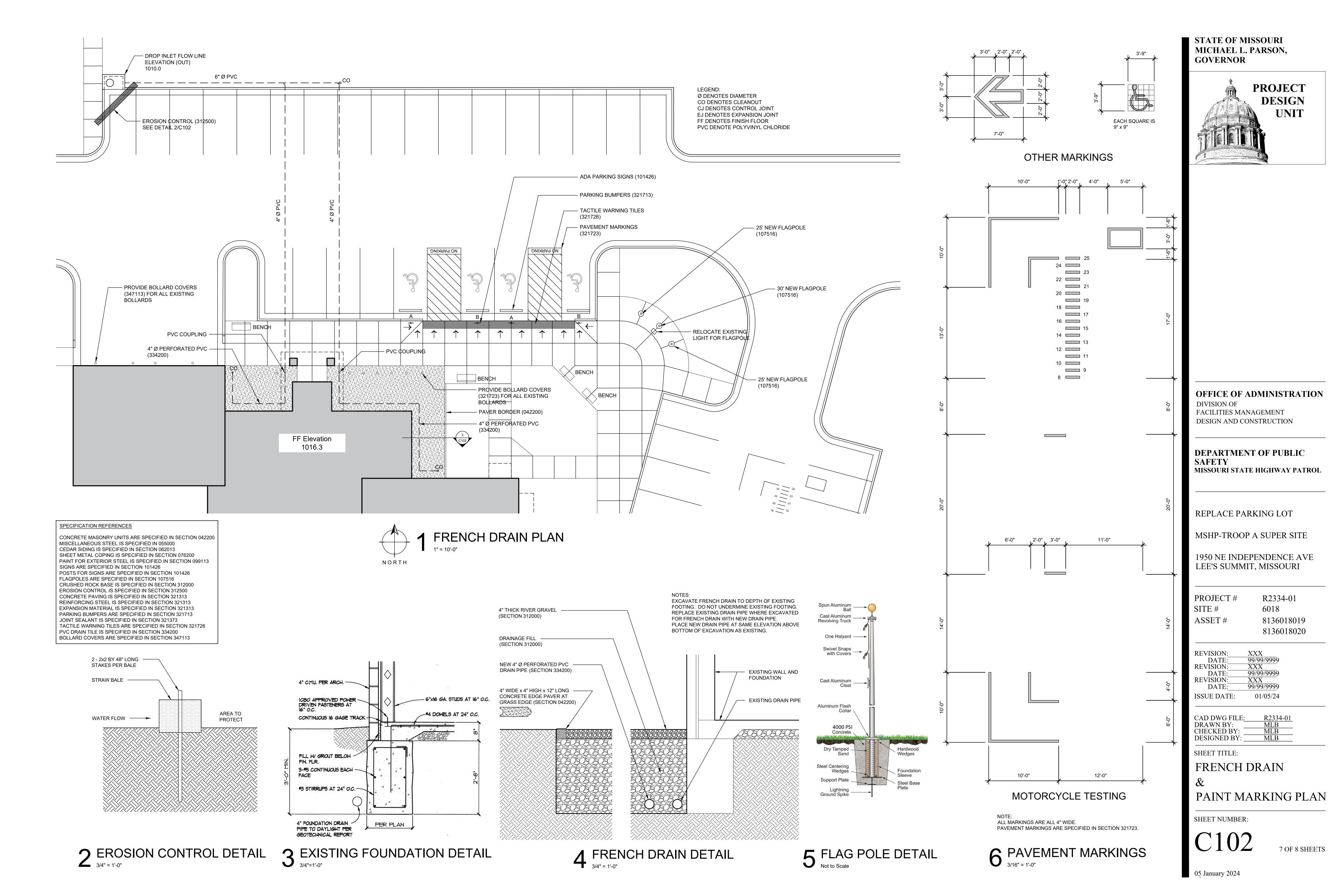
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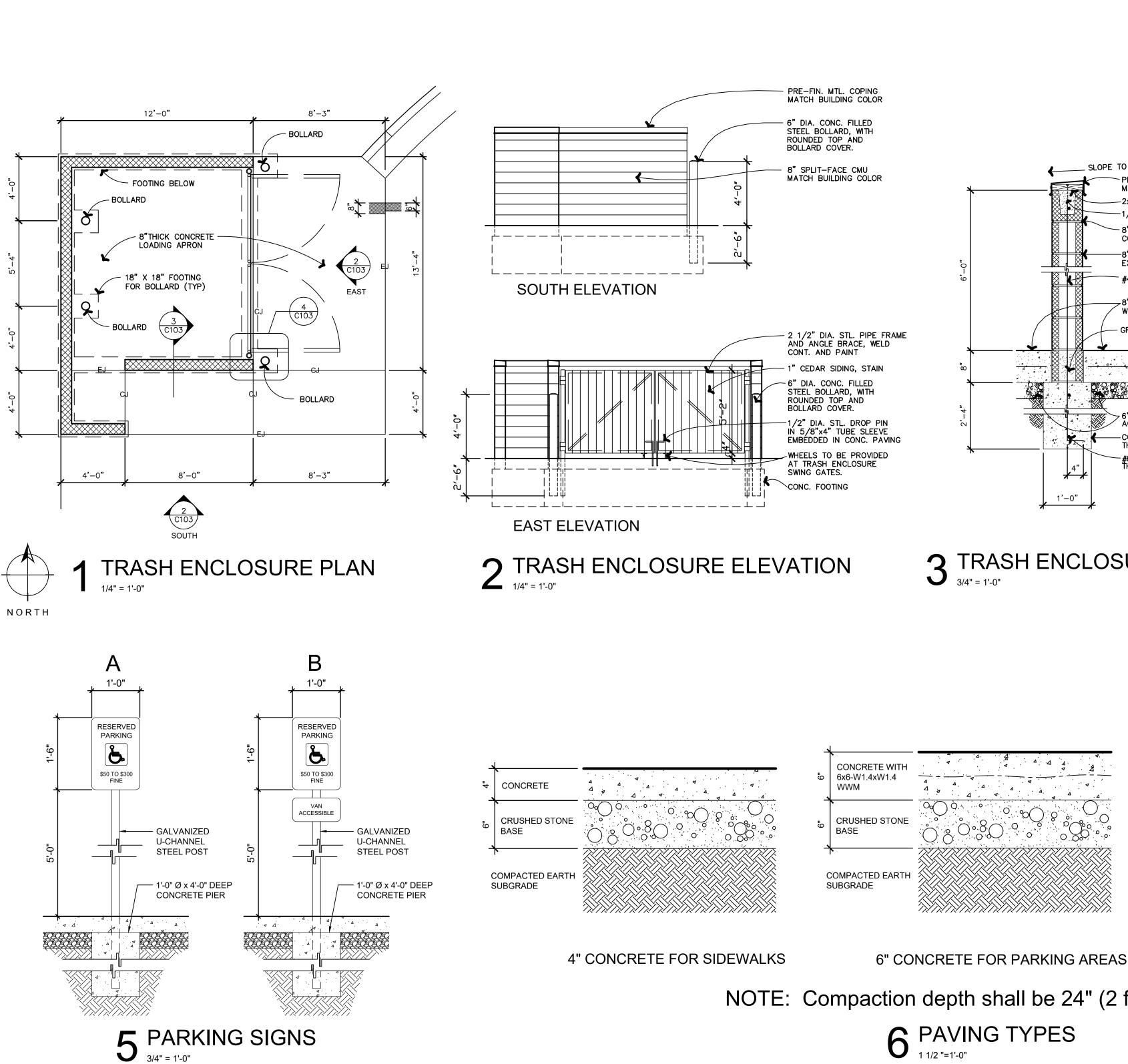
SHEET TITLE:

ISSUE DATE:

### REPAVING PLAN

SHEET NUMBER:





4" THICK CONCRETE

JOINTS AT APPROX.

#4 DOWEL x 24"

LONG AT 18" OC

- JOINT SEALANT

½" EXPANSION -

PARKING AND SIDEWALK PAVING

SIDEWALK 1½" DEEP CONTRO

10' OC

1. 1/2" EXPANSION JOINTS WITH 2' DOWELS TO BE PLACED AT RADIUS POINTS, DRIVE APPROACHES, AND 300'

THROUGH THE ENTIRE WIDTH OF THE CURB SECTION.

**DIMENSIONS** 

FIX DOWELS WITH BAR CHAIRS OR EQUIVALENT.

#4 DOWEL x 24" LONG AT -

1½" DEEP CONTROL JOINTS AT APPROX.

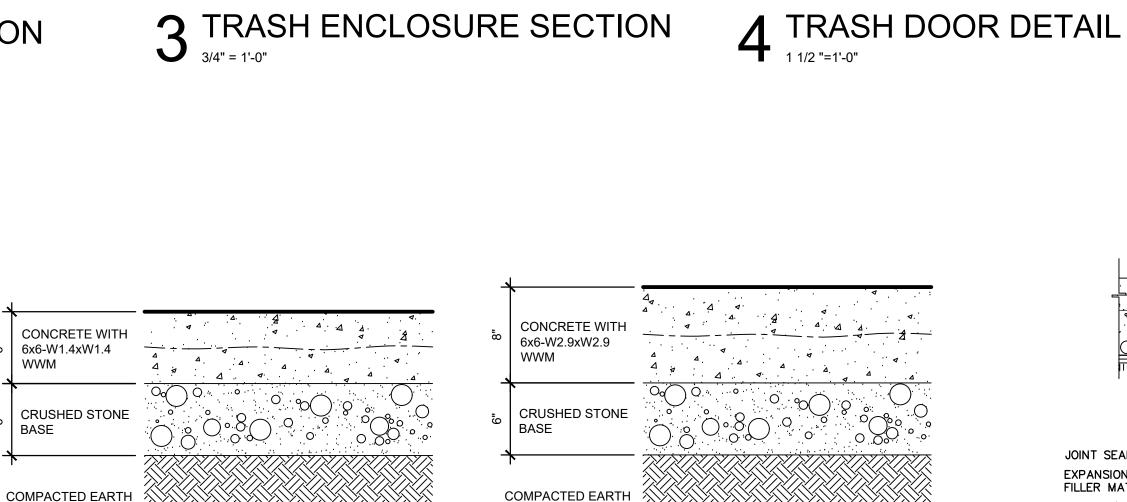
18" OC

MINIMUM INTERVALS. THESE DOWELS SHALL BE GREASED AND WRAPPED ON ONE END WITH EXPANSION LUBE. 1/2" DEEP CONTROL JOINTS SHALL BE INSTALLED AT APPROXIMATELY 10' INTERVALS. THESE JOINTS SHALL PASS

IF THE PAVEMENT SLOPES AWAY FROM THE CURB THE SLOPE OF THE CURB SHOULD MATCH THAT OF THE

3 - #5 SMOOTH

DOWELS AT **EXPANSION** 



\_\_\_\_ SLOPE TO INTERIOR

-2x8 TREATED

CONTINUOUS

PRE-FINISHED METAL COPING TO MATCH EXISTING BUILDING COLOR

-1/4" ANCHOR BOLT AT 4'-0" OC

—8" SPLIT-FACE CMU TO MATCH EXISTING BUILDING COLOR

8" CONC. APRON REINFORCED

#4 @ 48" O.C. VERTICAL

W/ 6X6-W2.9XW2.9 WWM

6" COMPACTED AGGREGATE BASE

— CONC. FOOTING CONTINUOUS THROUGH GATE

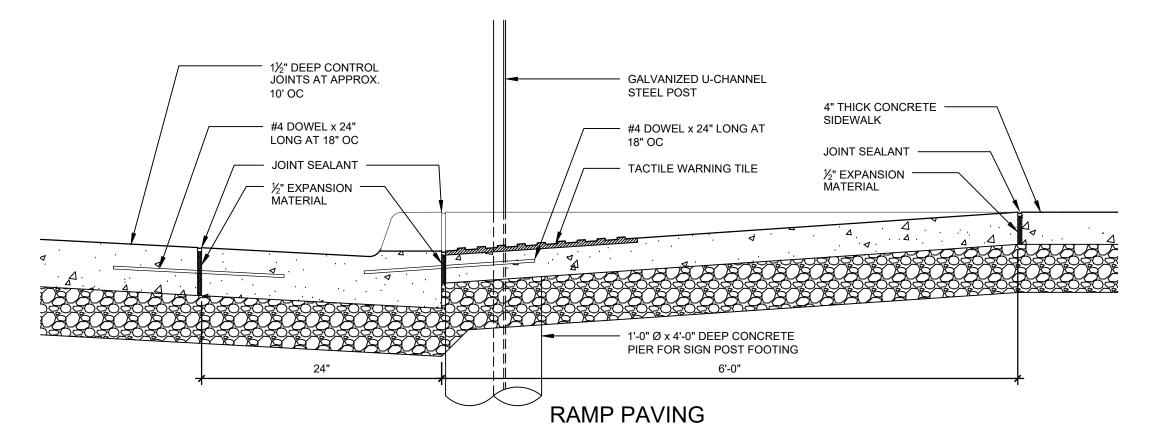
-#6 HORIZONTAL CONTINUOUS THROUGHOUT

-8" BOND BEAM, GROUTED WITH #4

COMPACTED EARTH SUBGRADE 8" CONCRETE FOR DRIVE LANE

NOTE: Compaction depth shall be 24" (2 ft.) minimum.

## 6 PAVING TYPES



8 CURB AND GUTTER DETAILS



- 4" DIA. x 3" PIPE PIVOT,

WELD TO GATE FRAME

4" DIA. x 3" PIPE PIVOT, WELD TO BOTH SIDES OF

AND ANGLE BRACE, WELD

- 3" DIA. STL. PIPE, FILL W/ CONC., ANCHOR 3' DEEP

GROUT CORE SOLID W/ #4

TOOLED JOINT

JOINT SEALER -

EXPANSION JOINT FILLER MATERIAL

TWO #4 DOWELS PER

PARKING BUMPER

**CONCRETE WITH** 

CRUSHED STONE

COMPACTED EARTH SUBGRADE

6x6-W1.4xW1.4

WWM

BASE

**CONTROL JOINT** 

**EXPANSION JOINT** 

7 JOINT DETAILS

-1" CEDAR SIDING

IN FTG., PAINT

- 8" SPLIT-FACE CMU

GATE FRAME; 4" DIA. x 3"

PIPE PIVOT SUPPORT, WELD

SUPPORT, WELD @ BOT. ONLY

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MICHAEL L. PARSON, **GOVERNOR** 

-WELDED WIRE MESH WHERE

— COMPACTED EARTH

COMPACTED EARTH SUBGRADE

SUBGRADE

-1/2" SMOOTH DOWEL (GREASE ONE END

OR INSTALL DOWEL SLEEVE)

**OFFICE OF ADMINISTRATION** DIVISION OF

FACILITIES MANAGEMENT DESIGN AND CONSTRUCTION

STATE OF MISSOURI

**PROJECT** 

**DESIGN** 

**UNIT** 

**DEPARTMENT OF PUBLIC** MISSOURI STATE HIGHWAY PATROL

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CAD DWG FILE DRAWN BY: CHECKED BY **DESIGNED BY** 

SHEET TITLE:

**DETAILS** 

SHEET NUMBER:

9 PARKING BUMPER DETAIL
1 1/2" = 1'-0"