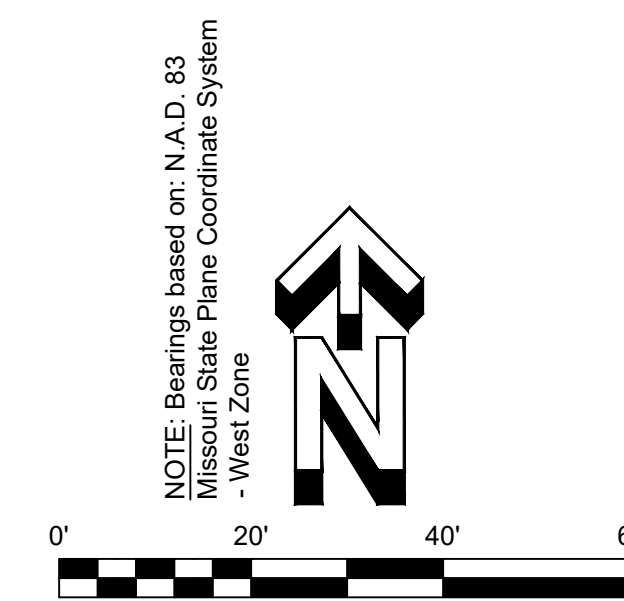


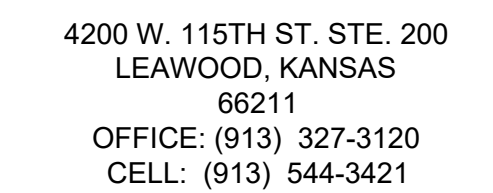


UTILITIES SHOWN HEREON ARE BASED ON PLAN INFORMATION AND ABOVE GROUND FEATURES TO THE BEST OF OUR KNOWLEDGE. THESE EXISTING CONDITIONS DRAWING DOES NOT GUARANTEE THE "EXISTENCE OR NON EXISTENCE" OF UNDERGROUND UTILITIES. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL CONTACT NORTH CAROLINA 811 AND FIELD VERIFY UTILITIES. CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER OF ANY UTILITIES ENCOUNTERED BUT NOT SHOWN HEREON OR IF LOCATION OF UTILITIES VARIES FROM THAT SHOWN ON THE PLANS

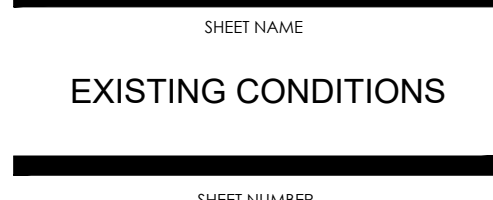
ALL EXISTING ITEMS ON THE SITE SHALL BE DEMOLISHED UNLESS OTHERWISE INDICATED. ITEMS TO BE DEMOLISHED SHALL BE COORDINATED WITH OWNER. CONTRACTOR SHALL HAUL DEMO ITEMS OFF-SITE. EXISTING WATER METER SHALL REMAIN.

ALL REMOVAL AREAS SHOWN SHALL BE SAW CUT TO FULL DEPTH WHEN ADJACENT TO REMAINING PAVEMENT.

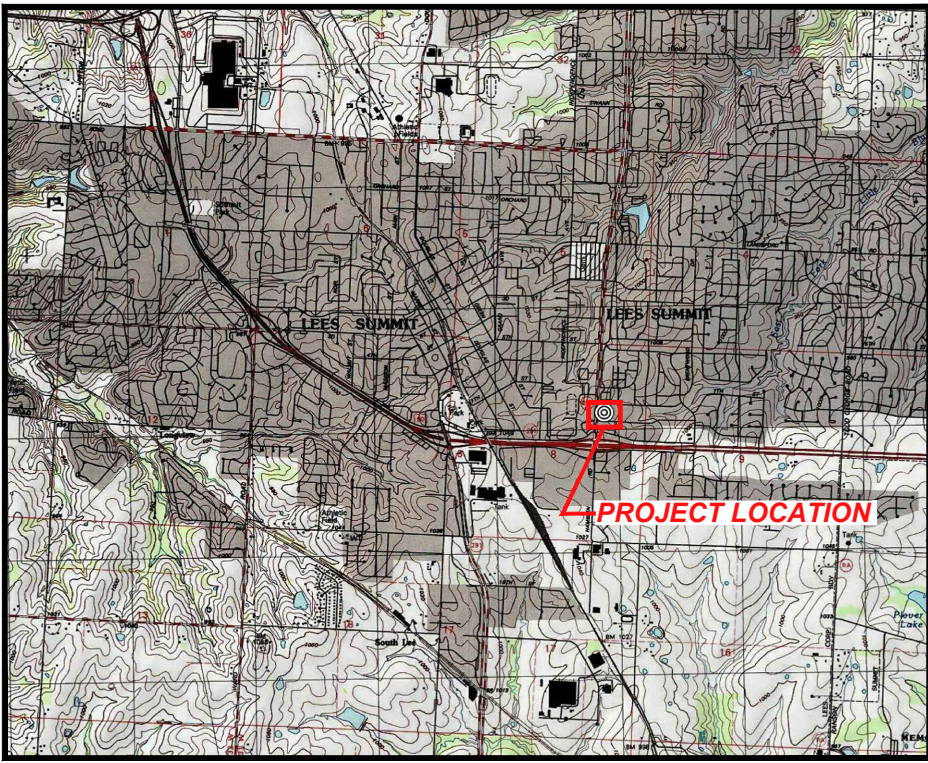
linear!
Marc Brundige,
Architect
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DALLAS, TX 75019
PHONE: 972.929.9226
FAX: 972.929.9061



MICHAEL E. NEIKIRK PE
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Mt. Carmel, IL 62863
Phone: (618) 263-4100

[illegible]

C1



VICINITY MAP
(NOT TO SCALE)

SITE PLAN DESIGN NOTES

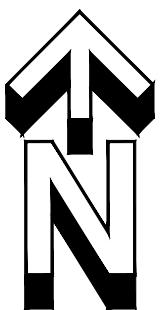
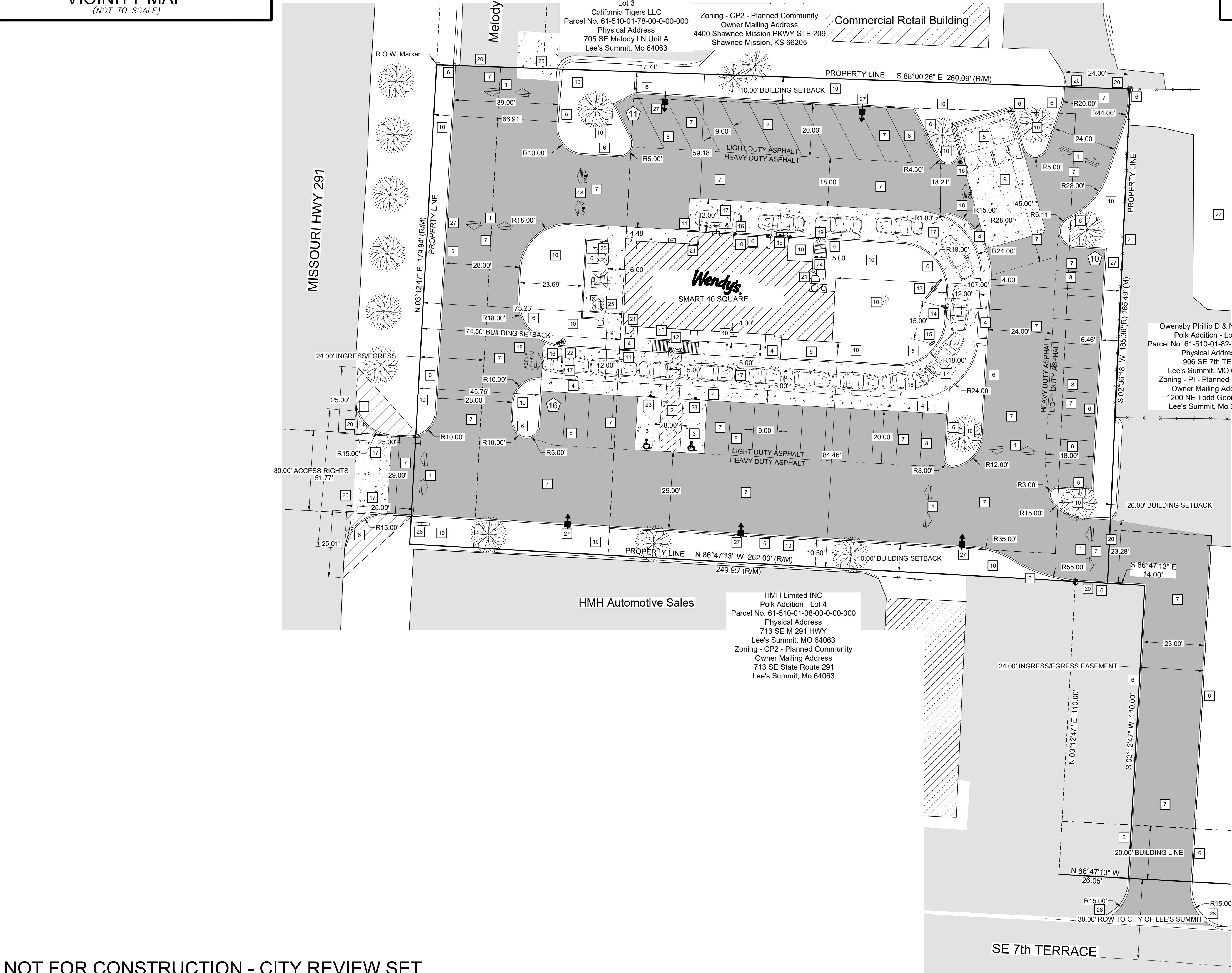
- | | | | | |
|--|-------|---|--|------|
| 1 TRAFFIC DIRECTIONAL MARKER | 5 C7 | 10 LANDSCAPING AREA | 19 SIDEWALK WITH MIN. 24" DETECTABLE WARNING | 4 C7 |
| 2 DIAGONAL STRIPING - 4" YELLOW @ 24" O.C. | 2 C7 | 11 SAFETY RAILING SEE ARCHITECTURAL DETAILS | 20 SAWCUT CURB / PAVEMENT FULL DEPTH FOR CLEAN JOINT | |
| 3 ADA ACCESSIBLE PARKING STALLS | 2 C7 | 12 SIDEWALK RAMP WITH MIN. 24" DETECTABLE WARNING | 21 5' x 5' CONCRETE STOOP | 1 C7 |
| 4 INTEGRAL CURB AND SIDEWALK | 8 C7 | 13 MENU BOARD | 22 CANOPY PROTECTION BAR | 7 C8 |
| 5 DUMPSTER ENCLOSURE | 9 C8 | 14 ORDER STATION | 23 ADA ACCESSIBLE PARKING SIGN | 7 C7 |
| 6 CONCRETE CURB | 11 C7 | 15 PRE-SELL BOARD | 24 CONCRETE SIDEWALK | 3 C7 |
| 7 ASPHALT PAVEMENT | 9B C7 | 16 BOLLARD | 25 OUTDOOR PATIO SEE ARCHITECTURAL SHEETS | |
| 8 PAVEMENT STRIPING - 4" YELLOW | | 17 CONCRETE PAVEMENT | 26 PYLON SIGN SEE ARCHITECTURAL SHEETS | |
| 9 DUMPSTER PAD - 8" CONCRETE PAVEMENT W/ APRON | 12 C7 | 18 PAVEMENT MARKER DETAIL | 27 AREA LIGHT - SEE SHEET C9 | |
| | | | 28 TRANSITION FROM 6" CURB TO EXISTING CURB | |

LEGEND	
	Benchmark
	Iron Pin Found
	Backflow Preventer
	Bollard
	Soil Boring Location
	Sanitary Sewer Cleanout
	Gas Meter
	Storm Sewer Curb Inlet
	Storm Sewer MH/Open Lid
	Light Pole or Traffic Light
	Storm Sewer Manhole
	Air Conditioner
	Sanitary Sewer Manhole
	Sign
	Water Meter
	Water Valve
	Utility Pole
	To Be Removed
	Top of Curb
	Pavement
	Match Existing
	Grade point
	Number of Parking Spaces
	To Be Removed
	Water Line
	Sanitary Sewer Main
	Fence
	Existing Contours
	Proposed Contours
	Underground Electric
	Storm Sewer
	Limits of Pavement Removal
	Overhead Utility Lines
	Gas Lines
	Ditch / Swale
	Existing Asphalt
	New Asphalt
	New Concrete
	Gravel
	Existing Concrete

SITE DATA

- AREA OF SITE: 47,692.73 SQ.FT. - 1.09 ACRES.
- PARKING CONDITIONS ARE AS FOLLOWS:
MIN. REQUIRED SPACES: 14 PER 1000 SQ.FT. GROSS FLOOR SPACE
TOTAL GROSS FLOOR SPACE: 2,504 SQ. FT.
PARKING REQUIRED: 35 STALLS
ACTUAL SPACES:
35 REGULAR SPACES
2 ACCESSIBLE SPACES
TOTAL SPACES: 37
- PROPERTY ZONING
CP-2, PLANNED COMMUNITY COMMERCIAL
- EXISTING USE: RESTAURANT
PROPOSED USE: RESTAURANT WITH DRIVE THRU DRIVE THRU STACKING REQUIRED: 4 FROM MENU BOARD AND 4 FROM FIRST WINDOW STACKING SUPPLIED: 14 FROM FIRST WINDOW
- PHYSICAL ADDRESS : 711 SE M 291 HWY
LEE'S SUMMIT, MO 64063
- PARCEL INFORMATION: LEE'S SUMMIT 29197 LLC
POLK ADDITION - LOT 5A
PARCEL NO. 61-510-01-81-01-0-00-000
- OWNER ADDRESS: 605 W 47TH ST 100,
KANSAS CITY, MO 64112
- BUILDING FLOOR AREA: 2,506 SQ.FT.
FLOOR AREA RATIO = 2,506 / 47,692.73 (LOT AREA) = 5.25%
- BUILDING HEIGHT: 24 FT.
- DRAINAGE: LOT AREA= 47,692.73 SQ.FT.
EXISTING:
IMPERVIOUS AREA: 43,283 SQ.FT. = 90.75%
PERVIOUS AREA: 4,409.73 S.F.T. = 9.25%
PROPOSED:
IMPERVIOUS AREA: 35,431.21 SQ.FT. = 74.29%
PERVIOUS AREA: 12,260.52 SQ.FT. = 25.71%

ZONING REQUIREMENTS:
Zoning - CP2 - Planned Community
1. Minimum Front Yard: 15'
2. Minimum Side Yard: 10'
3. Minimum Rear Yard: 20'
4. Building Height: 40'
*74.5 Front Building Setback line per Exception 8



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ASSET TYPE:	FRAN
CLASSIFICATION:	NEW
OWNER:	NPCQB
BASE VERSION:	2017
UPGRADE CLASSIFICATION:	
	NEW BUILD
PROJECT YEAR:	2019
FURNITURE PACKAGE:	2016 V3
DRAWING RELEASE	SPRING 2018

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Marc Brundige,
Architect

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DALLAS, TX 75019
PHONE: 972.929.9226
FAX: 972.929.9061



4200 W. 115TH ST. STE. 200
LEAWOOD, KANSAS
66211
OFFICE: (913) 327-3120
CELL: (913) 544-3421

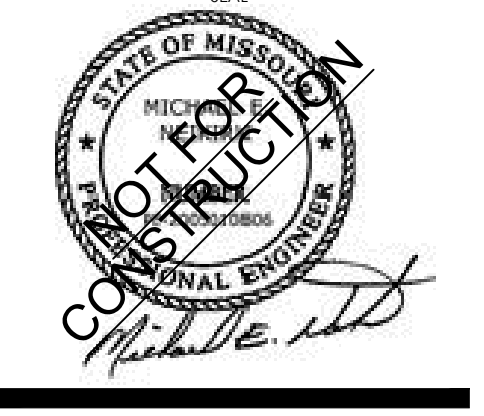
PROJECT TYPE: NEW
SMART 55 - NARROW

MICHAEL E. NEIKIRK PE
Civil Engineer
306 North Market Street Ste. 101
Mt. Carmel, IL 62863
Phone: (618) 263-4100

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#12533 (NPCQB#6042)
711 E MISSOURI 291 HWY
LEE'S SUMMIT, MO 64063

REV.	DATE	DESCRIPTION

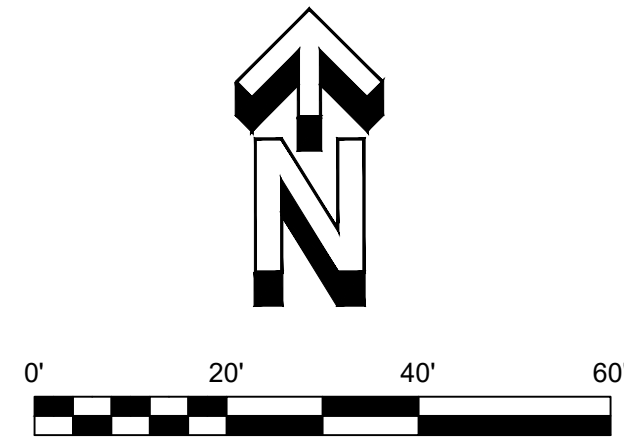
ISSUE DATE: 09-05-19
PROJECT NUMBER: NPCQB#6042
DRAWN BY: T.J.L. RM
CHECKED BY: MEN. T.J.L.



SHEET NAME
SITE PLAN

SHEET NUMBER

C2



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OWNER:		NPCQB
BASE VERSION:		2017
UPGRADE CLASSIFICATION:		
		NEW BUILD
PROJECT YEAR:		2019
FURNITURE PACKAGE:		2016 V3
DRAWING RELEASE		SPRING 2018

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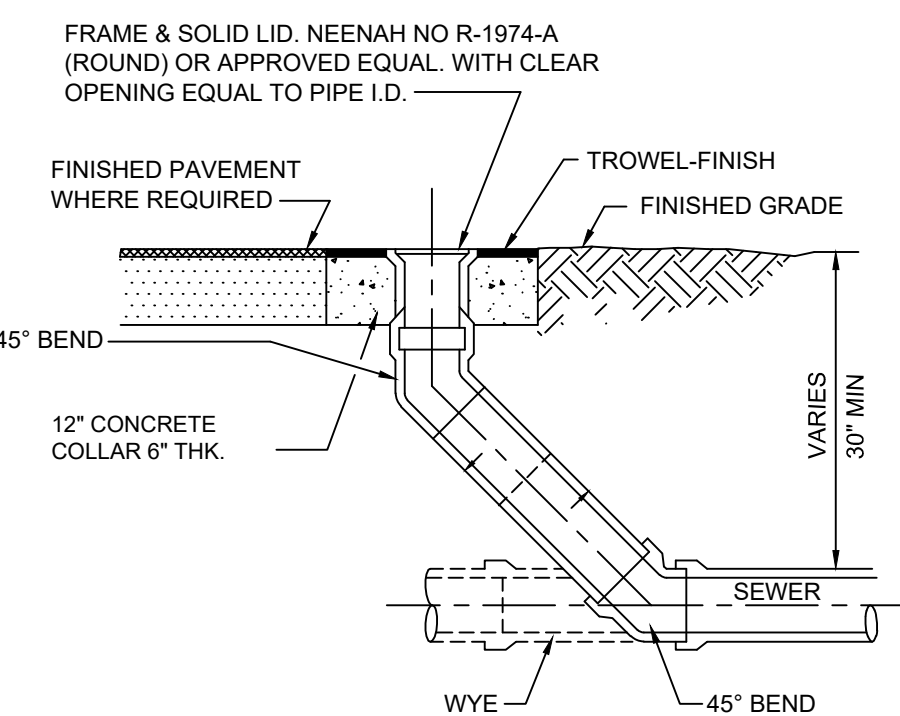
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ISSUE DATE: 09-05-19
PROJECT NUMBER:
IPCQB#6042
DRAWN BY: TJL, RM
CHECKED BY: MEN, TJL



GRADING & DRAINAGE

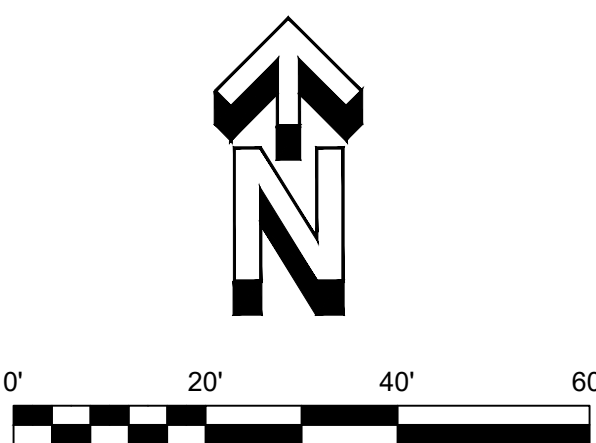
C3



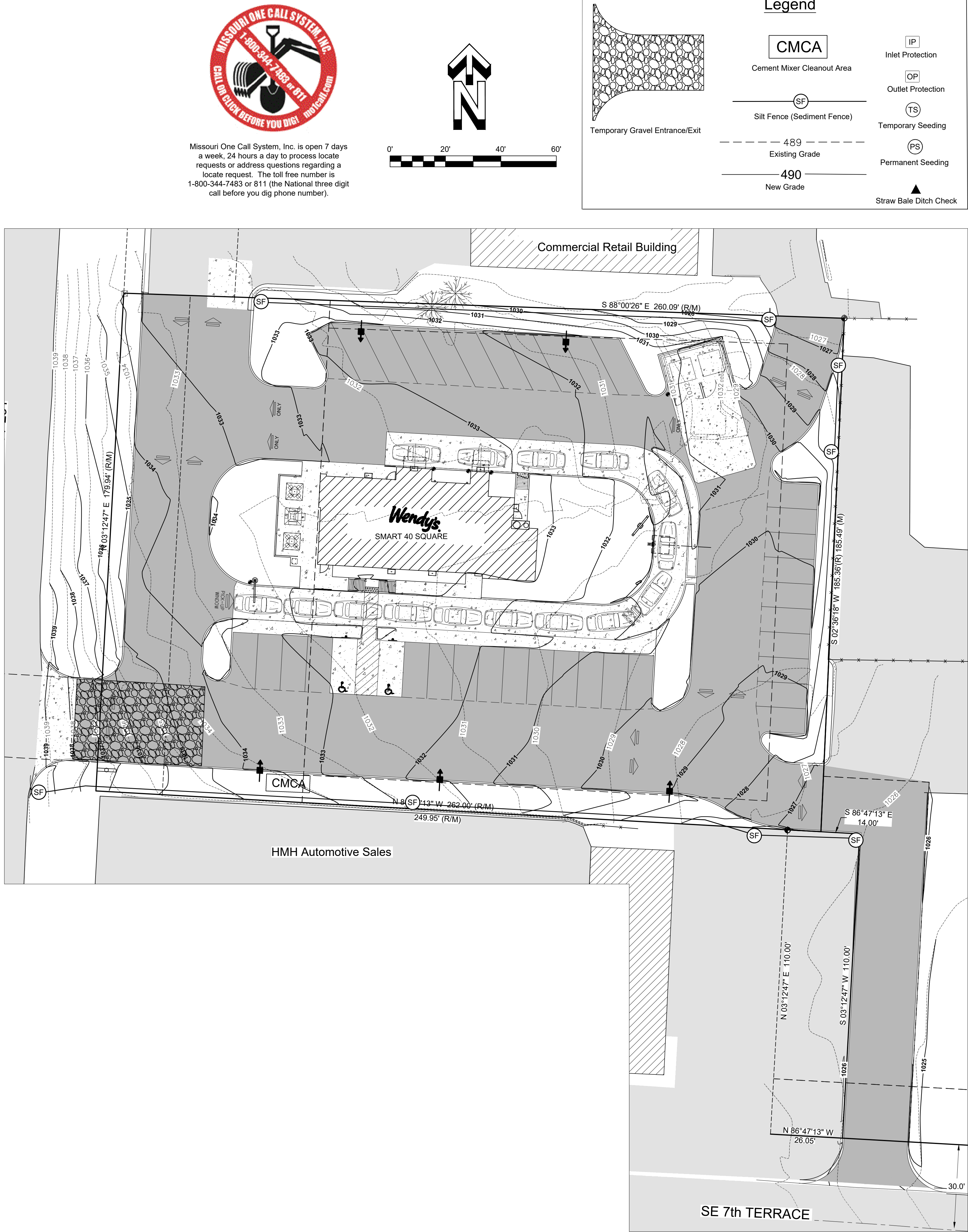
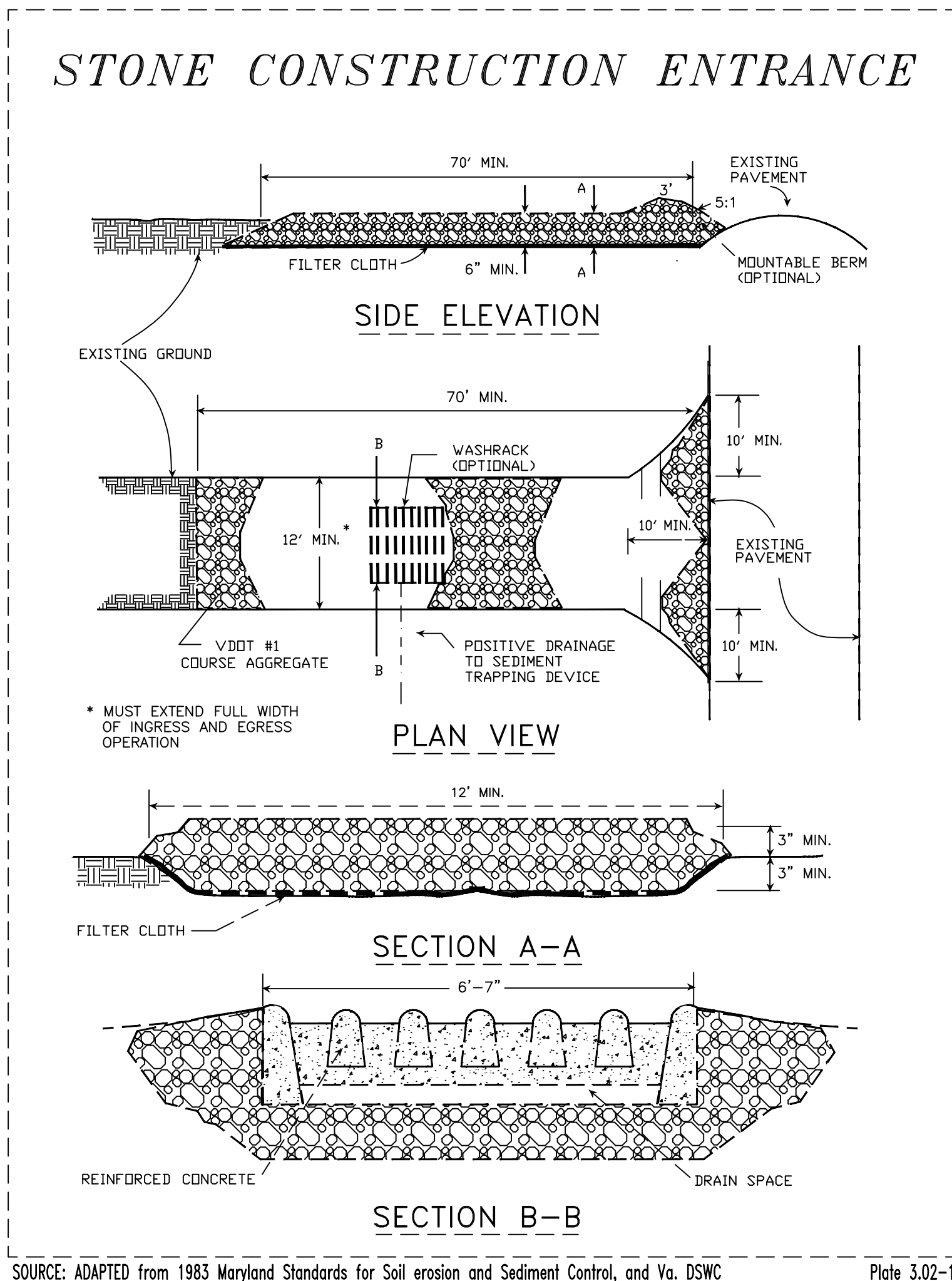
NOT FOR CONSTRUCTION - CITY REVIEW SET

5) CONTRACTOR SHALL COORDINATE CONNECTION POINT AND SERVICE SIZE WITH APPROPRIATE SERVICE PROVIDER PRIOR TO CONSTRUCTION FOR BOTH TELEPHONE AND CABLE TV SERVICE.

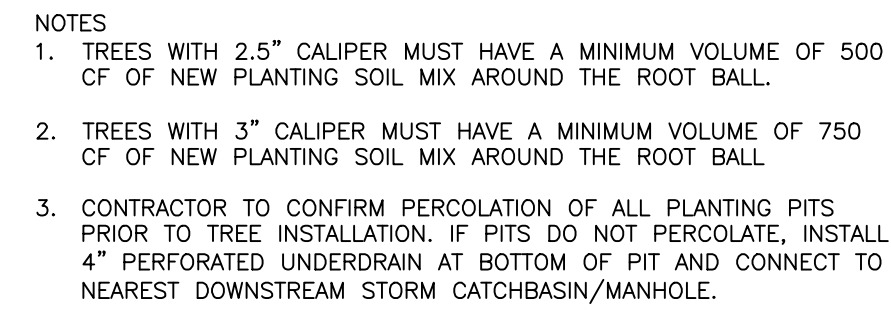
C4



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C5



LEGEND

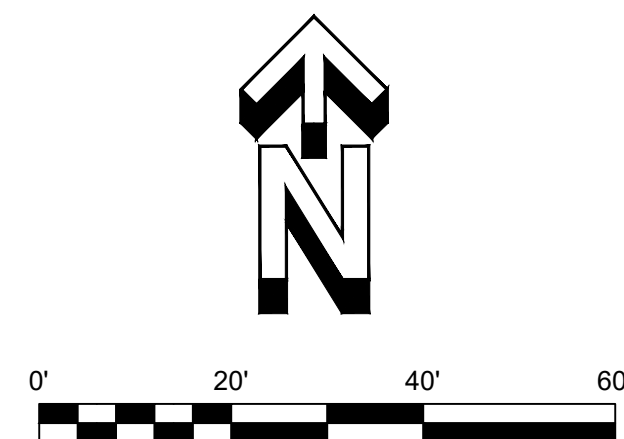
	Benchmark		Sanitary Sewer Manhole
	Iron Pin Found		Sign
	Iron Pin Set		Water Meter
	Bollard		Water Valve
	Soil Boring Location		Utility Pole
	Sanitary Sewer Cleanout		To Be Removed
	Gas Meter		Top of Curb
	Storm Sewer Curb Inlet		Pavement
	Storm Sewer MH/Open Lid		Match Existing
	Light Pole or Traffic Light		Grade point
	Storm Sewer Manhole		Number of Parking Spaces
	Air Conditioner		To Be Removed

	W	W	W	Water Line Sanitary Sewer Main Fence Existing Contours New Contours Underground Electric Storm Sewer Limits of Pavement Removal Overhead Utility Lines Gas Lines Ditch / Swale
	SS	SS		
	X	X	X	
	---	---	---	
	470			
	UGE	UGE		
	S	S	S	
	OHE	OHE		
	GAS	GAS		

	Existing Asphalt		Gravel
	New Asphalt		Existing Concrete
	New Concrete		Stormwater Easement
	Existing Asphalt TBR		

KEYNOTE	COMMON NAME	SCIENTIFIC NAME	QUANTITY	SIZE
①	Red Maple	Acer rubrum	18	3" CALIPER
②	Green Velvet Boxwood	Buxus x 'Green Velvet'	35	2 GAL. CONTAINER
③	Koreanspice Viburnum	Viburnum carlesii 'Compactum'	15	2 GAL. CONTAINER
④	Blue Point Juniper	Juniperus chinensis 'Blue Point'	8	24"-30" BALLED AND BURLAPPED
⑤	Liriope 'Big Blue'	Liriope muscarii 'Big Blue'	56	2 1/2" PEA POT

1. Planting areas shall be mulched. All planting areas and lawn areas shall be separated by steel edging. No steel edging needs to be installed adjacent to buildings, sidewalks, or curbs. Cut steel edging at 45 degree angle where it intersects walks and curbs.
2. All landscaped and lawn areas shall be irrigated through the use of an automatic underground irrigation system with rain and freeze sensors and evapotranspiration weather-based controllers. Irrigation system shall be designed and installed by a licensed irrigation contractor. Hunter Irrigation System shall be used unless equal is approved by owner.
3. All landscape material shall be maintained in accordance with the American Standard for Nursery Stock as published by the American Association of Nurserymen. All dead, dying, or diseased material will be replaced, in kind, by the owner within the next available planting season.
4. All portion of the site not covered with paving or buildings shall be landscaped. Open area not covered with other materials shall be covered with sod. Ground cover shall be utilized on all slopes in excess of 3:1 slopes.
5. Street Frontage = 179.94'
Required Trees: 1 tree required for each 30 feet of street frontage = 6 required trees
Actual Trees: 6 trees along frontage.
Required Shrubs: 1 shrubs for each 20 feet of street frontage = 9 required shrubs
Actual Shrubs = 9 shrubs along frontage
6. Parking Lot Screening = 48.50'
Required Shrubs: 12 Shrubs required for each 40 feet of Parking Lot = 15 Shrubs
Actual Shrubs: 16 Shrubs along Parking lot Frontage
7. Total Lot Area minus Building Footprint = 45,186.73 Sq. Ft.
Required Shrubs: 2 shrubs per 5,000 sq. ft. of total lot area = 18 Shrubs
Actual Shrubs = 56 Shrubs on Lot (not used for Street Frontage or Parking Lot Screening)
Required Trees: 1 Tree per 5,000 sq. ft. of total lot area = 9 Trees
Actual Trees = 9 Trees
8. Total Vehicle Use Area = 30,676.20 Sq. Ft.
Required Interior Landscape Area: 5% of VUA = 1,534 Sq. Ft.
Actual Interior Landscape Area = 1,876 Sq. Ft.



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FURNITURE PACKAGE:	2016 V3
DRAWING RELEASE	SPRING 2018

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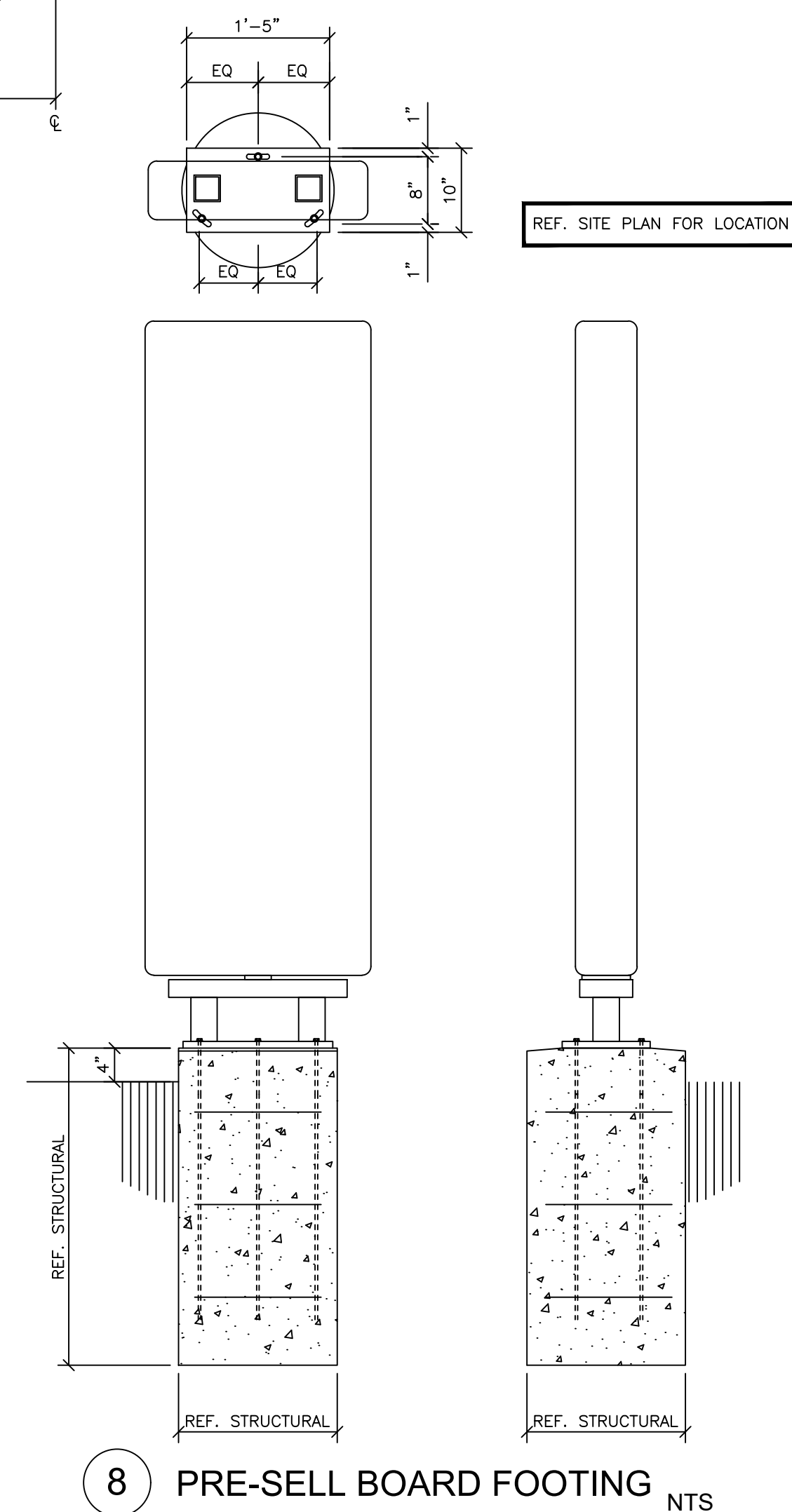
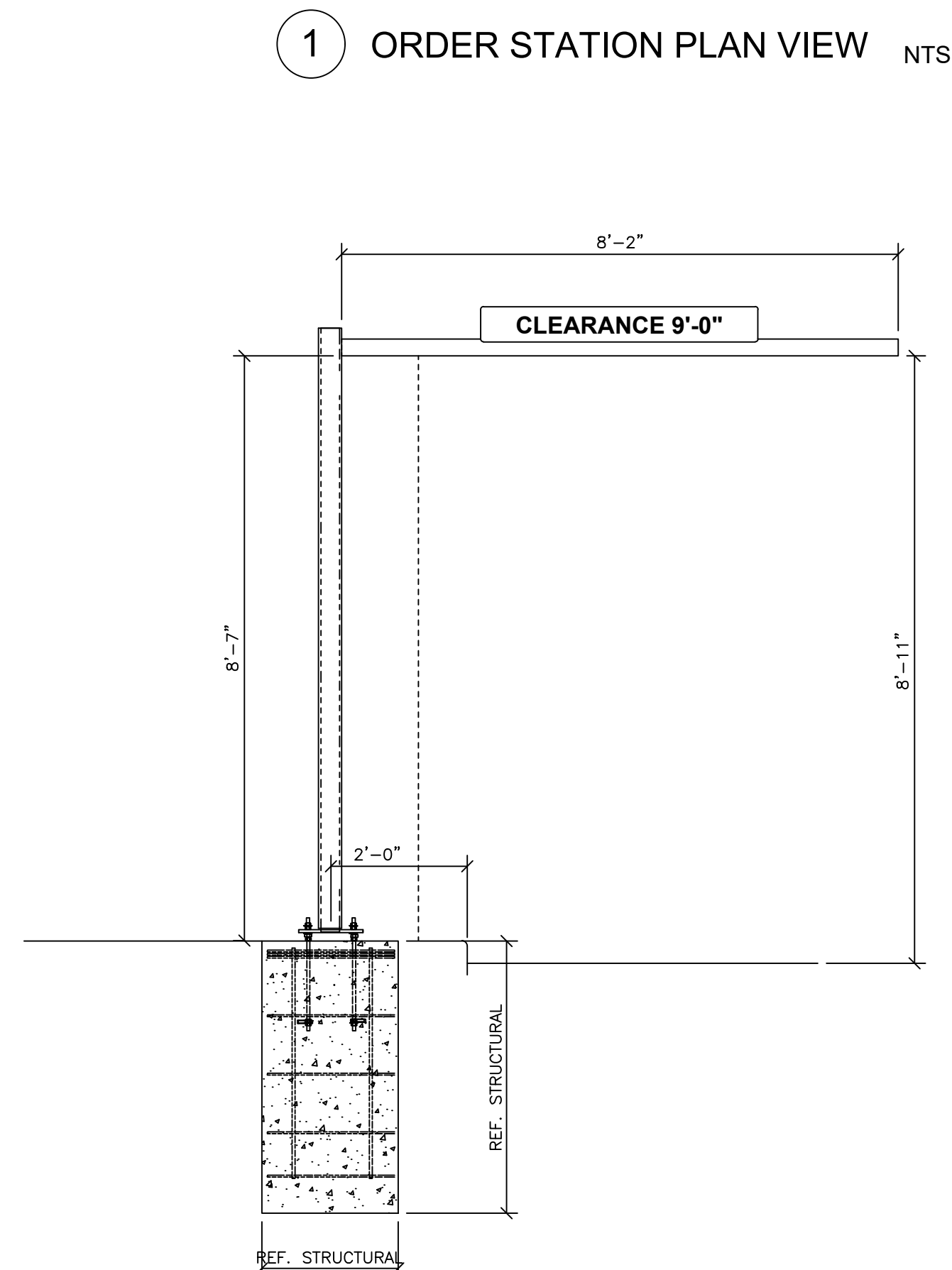
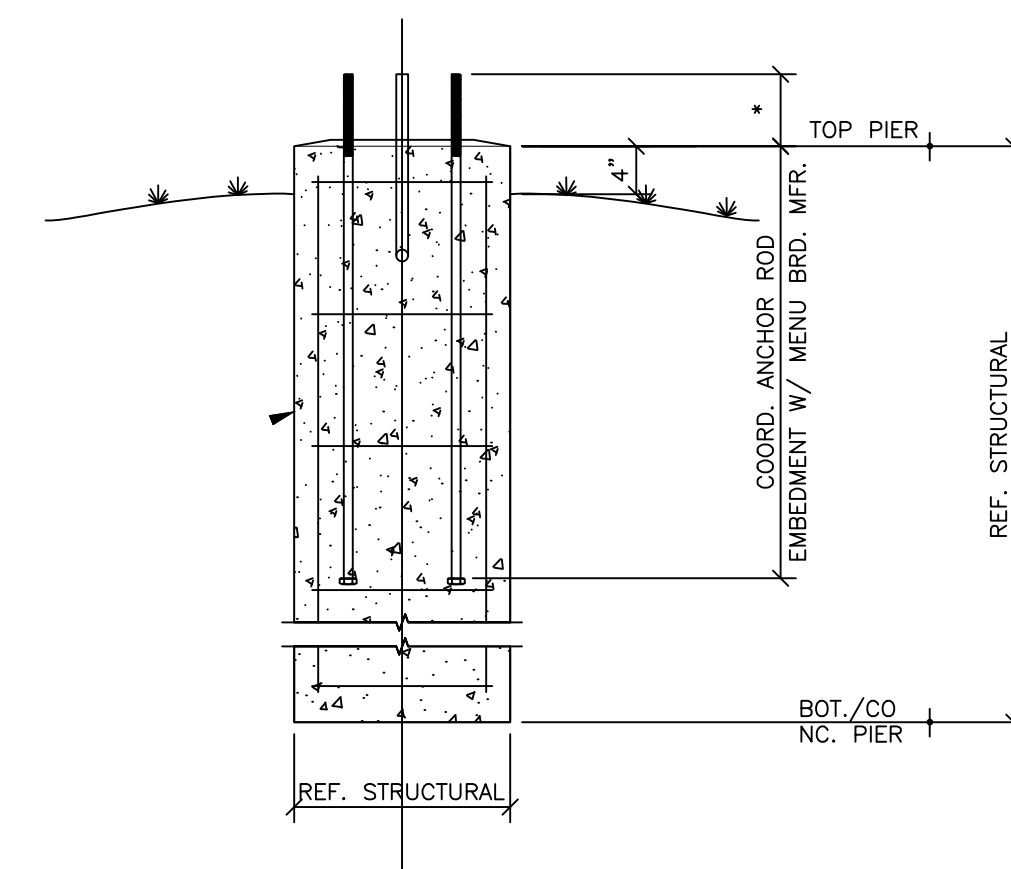
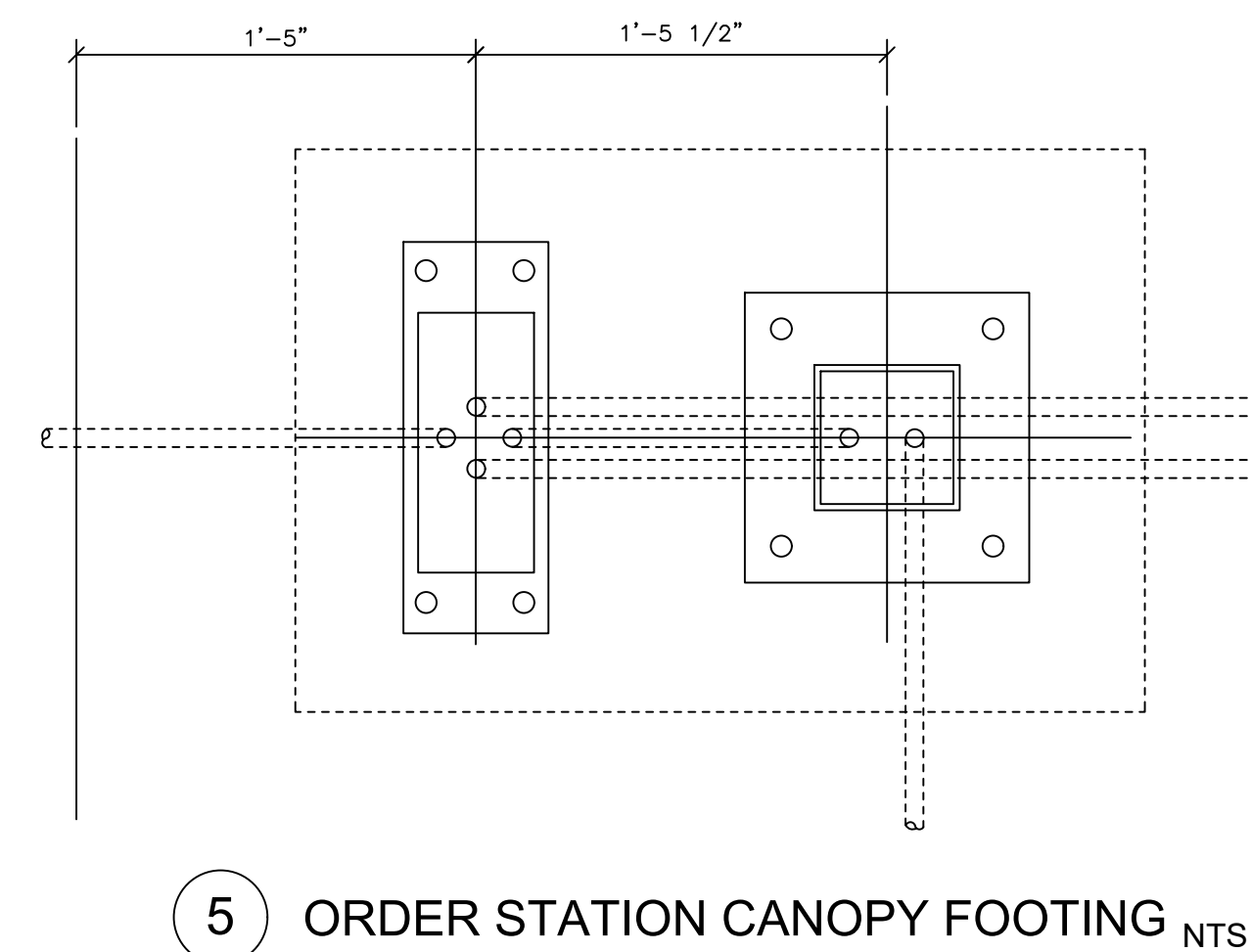
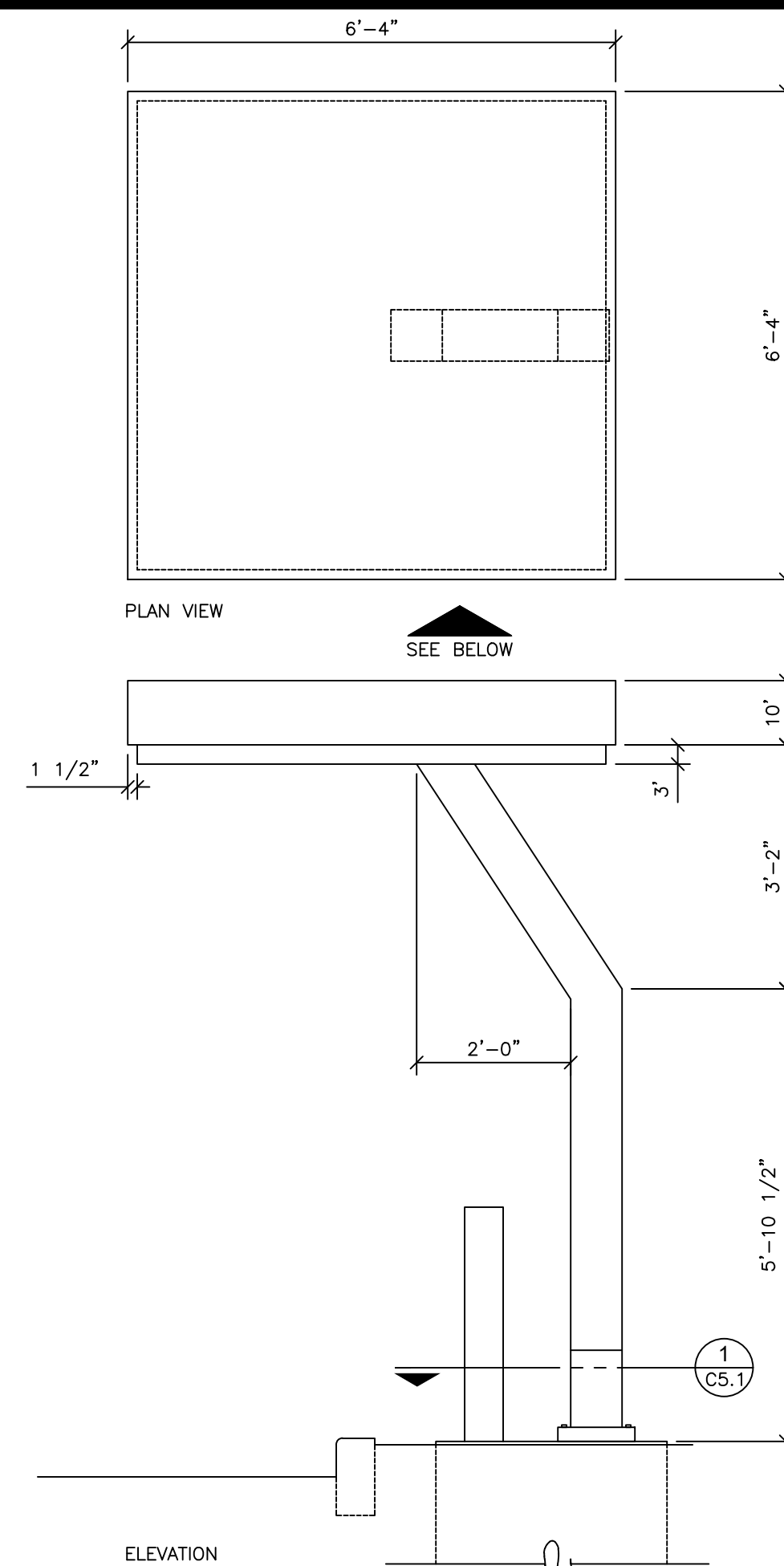
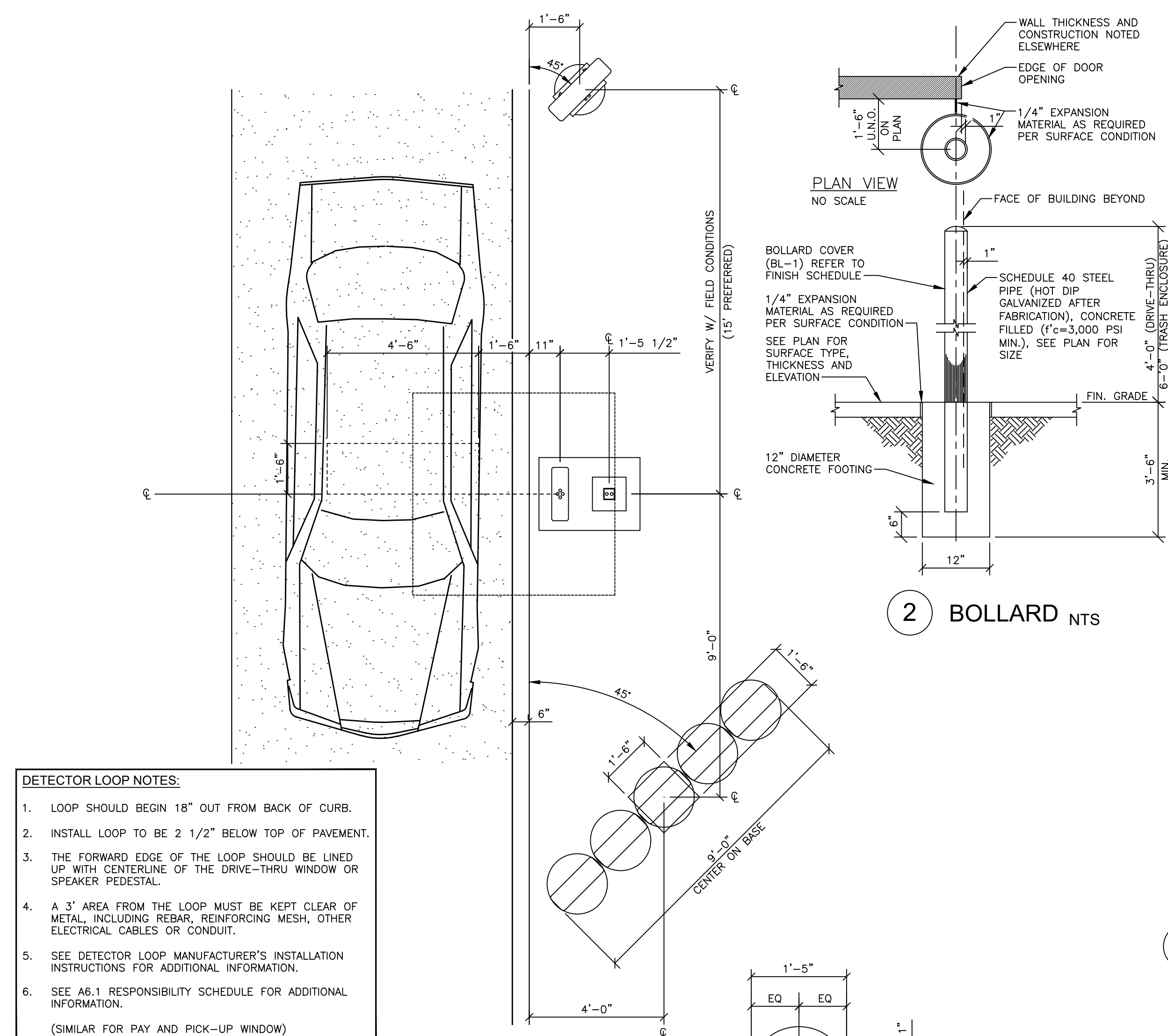
SHEET NAME

LANDSCAPE PLAN

SHEET NUMBER

C6

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REF. SITE PLAN FOR LOCATION

<u>DETECTOR LOOP NOTES:</u>	
1.	LOOP SHOULD BEGIN 18" OUT FROM BACK OF CURB.
2.	INSTALL LOOP TO BE 2 1/2" BELOW TOP OF PAVEMENT.
3.	THE FORWARD EDGE OF THE LOOP SHOULD BE LINED UP WITH CENTERLINE OF THE DRIVE-THRU WINDOW OR SPEAKER PEDestal.
4.	A 3' AREA FROM THE LOOP MUST BE KEPT CLEAR OF METAL, INCLUDING REBAR, REINFORCING MESH, OTHER ELECTRICAL CABLES OR CONDUIT.
5.	SEE DETECTOR LOOP MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ADDITIONAL INFORMATION.
6.	SEE A6.1 RESPONSIBILITY SCHEDULE FOR ADDITIONAL INFORMATION.
(SIMILAR FOR PAY AND PICK-UP WINDOW)	

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npc
quality burger

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LEE'S SUMMIT, MO 64063

REV.	DATE	DESCRIPTION

ISSUE DATE: 09-05-19
PROJECT NUMBER:
NFCQB#6042
DRAWN BY: TJL, RM
CHECKED BY: MEN, TJL

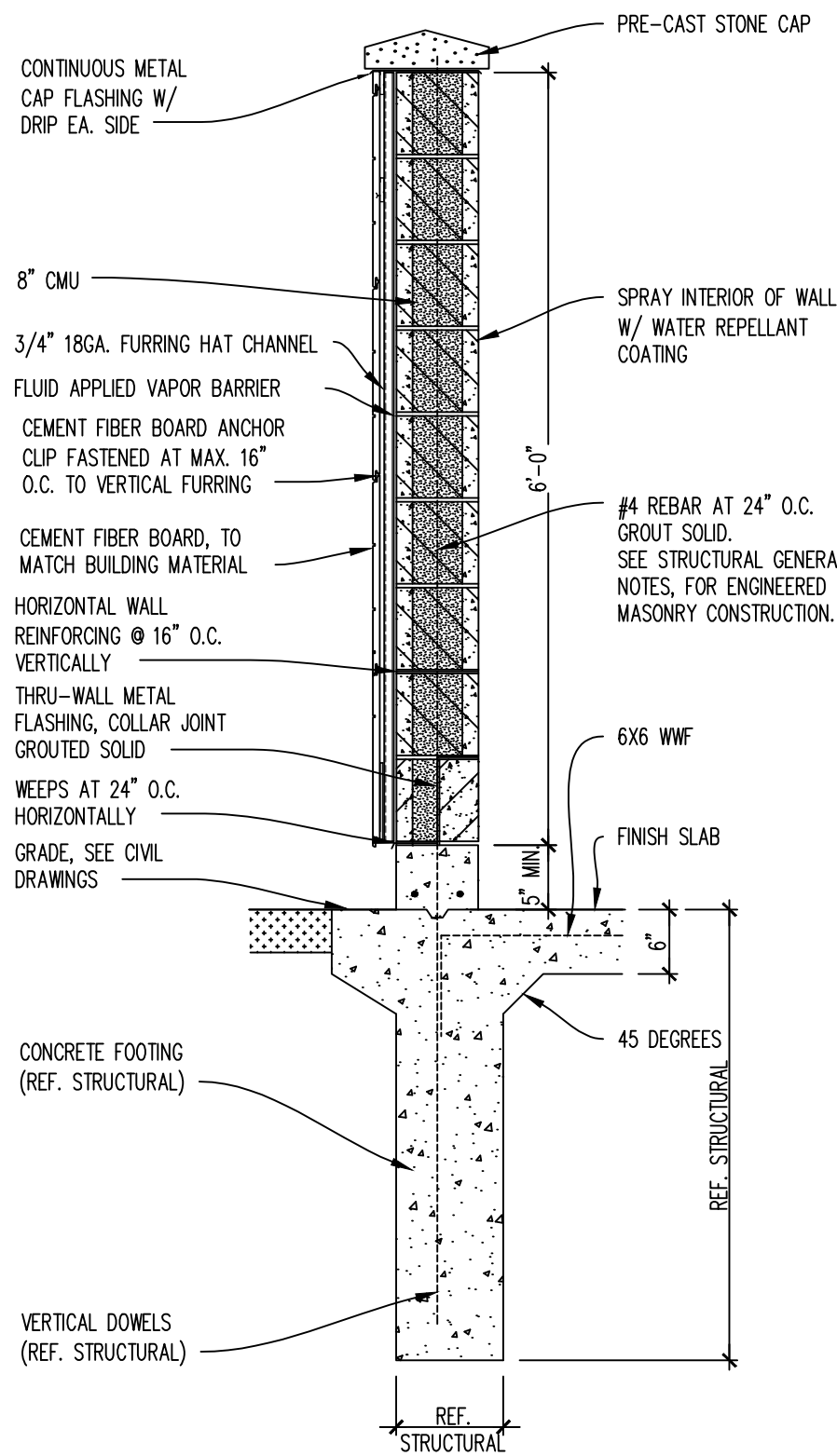
A circular professional engineer seal for the State of Missouri. The outer ring contains the text "STATE OF MISSOURI" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by stars. Inside the ring, it says "MICHAEL E. SMITH" and "LICENSE NO. 0000000000". A diagonal stamp across the seal reads "COPY NOT FOR CONSTRUCTION". Below the seal is a handwritten signature that appears to be "Michael E. Smith".

SHEET NAME

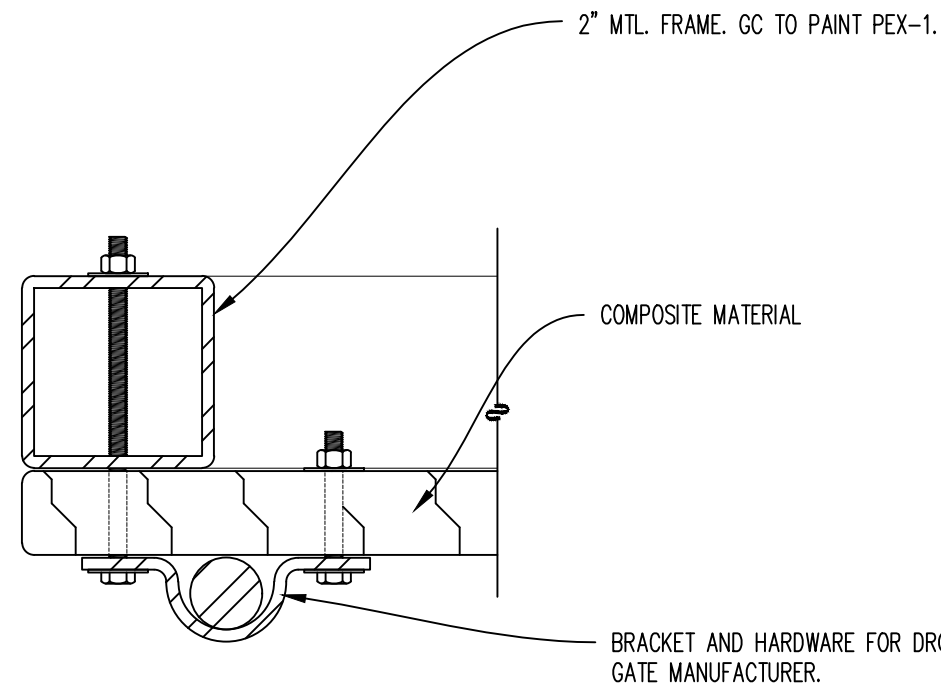
DETAILS

SHEET NUMBER

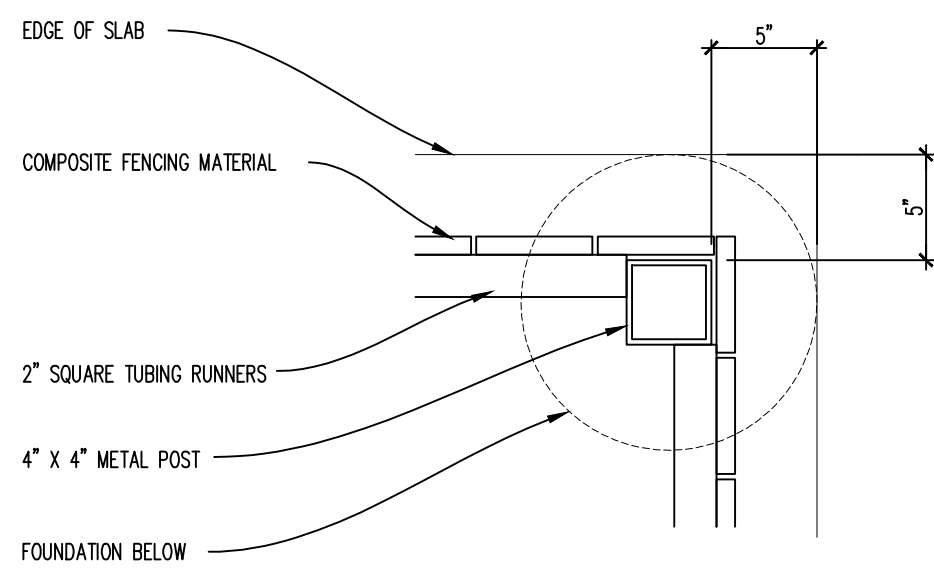
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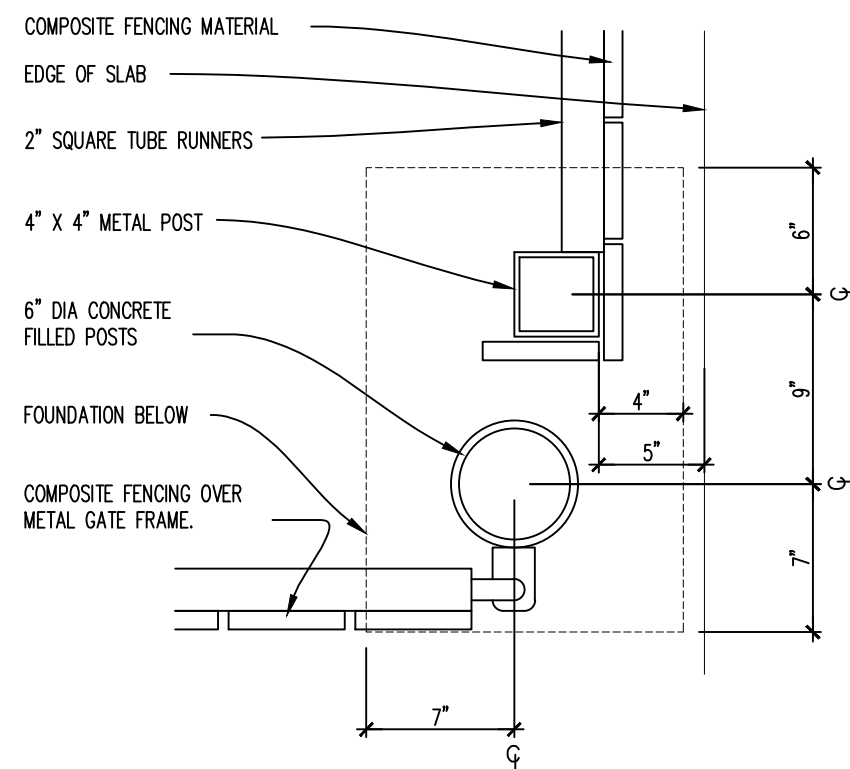
08 WALL SECTION
SCALE: 3/4\"=1'-0"



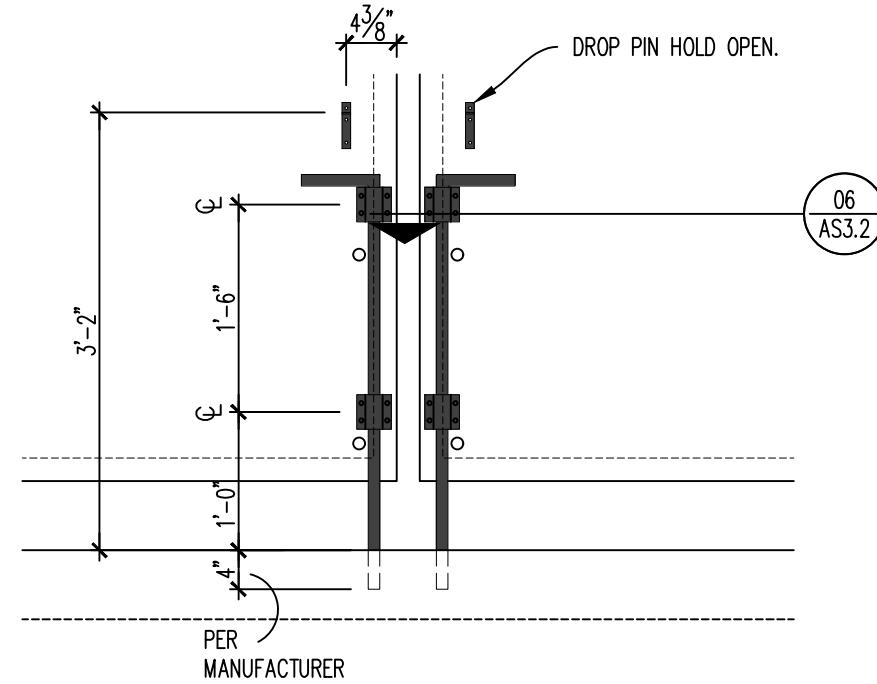
07 DROP-PIN DETAIL COMPOSITE GATE
SCALE: 6\"=1'-0"



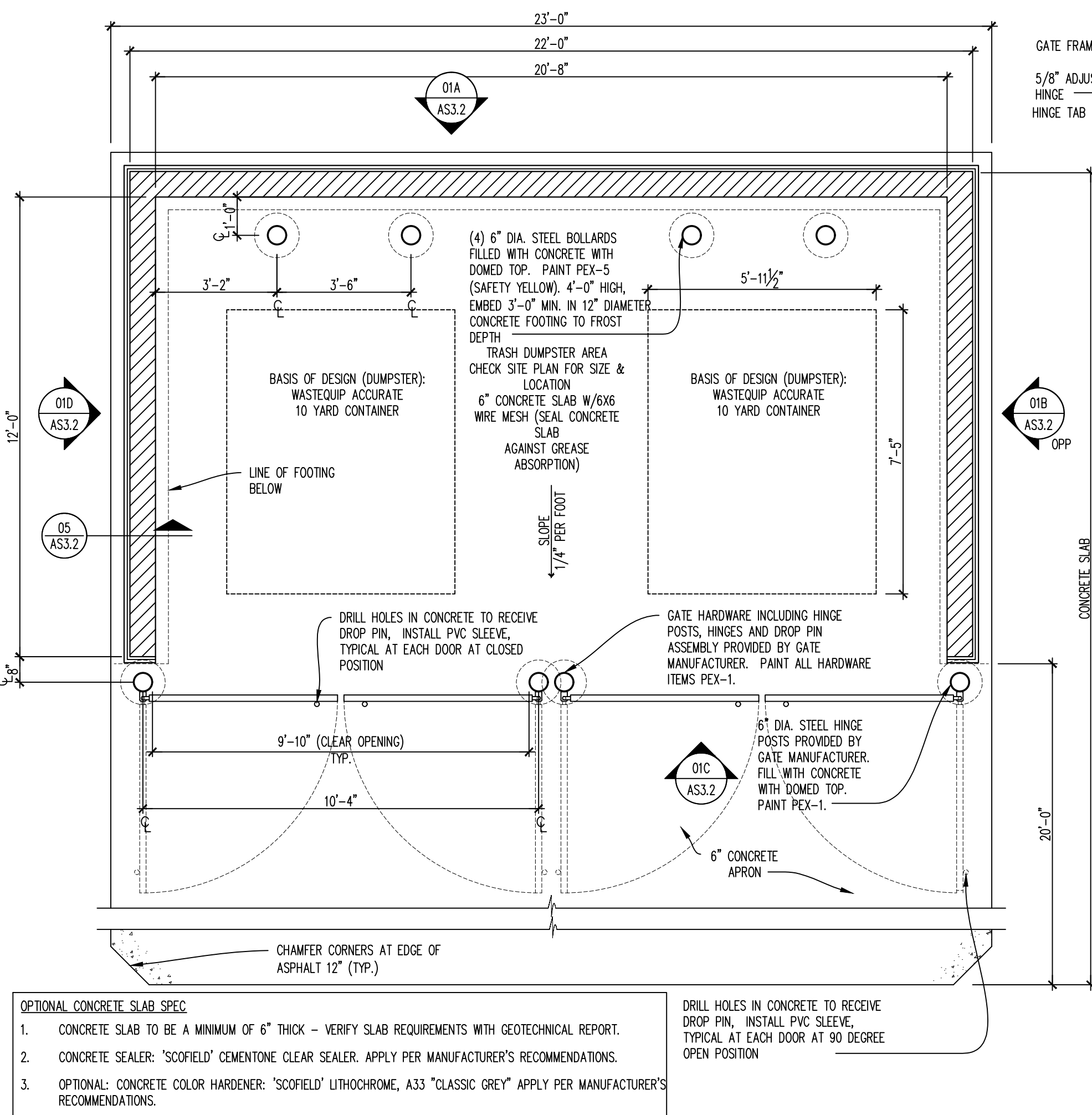
06 PLAN DETAIL
SCALE: 1 1/2\"=1'-0"



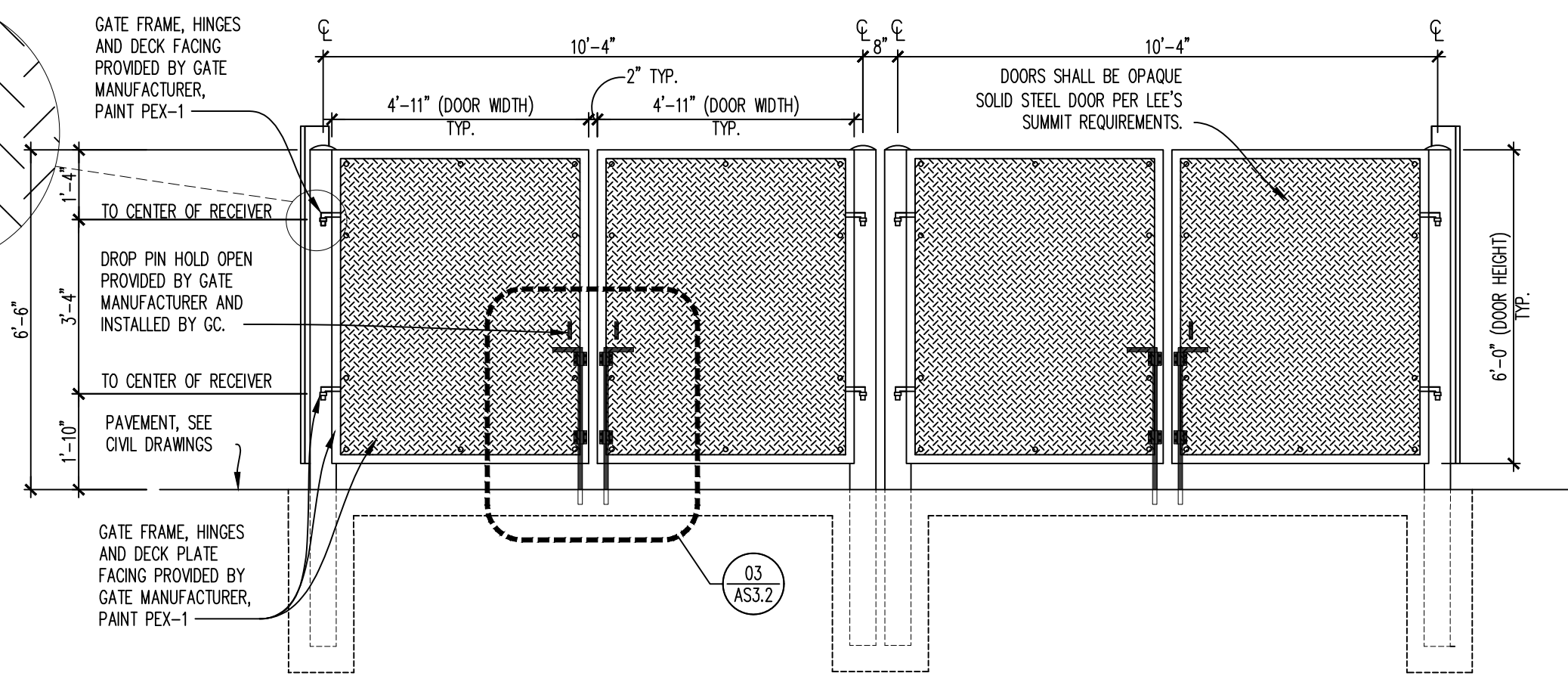
05 PLAN DETAIL
SCALE: 1 1/2\"=1'-0"



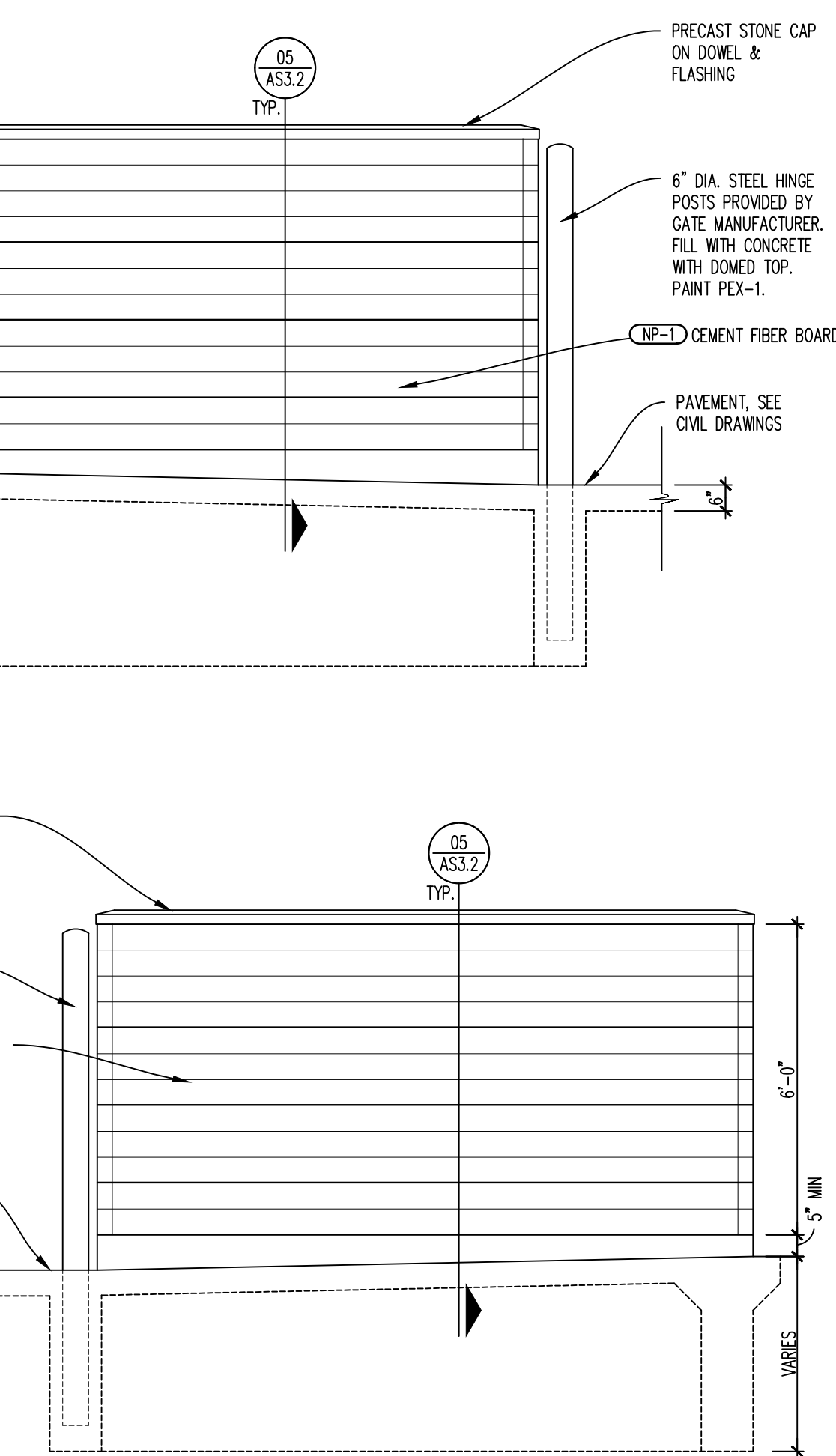
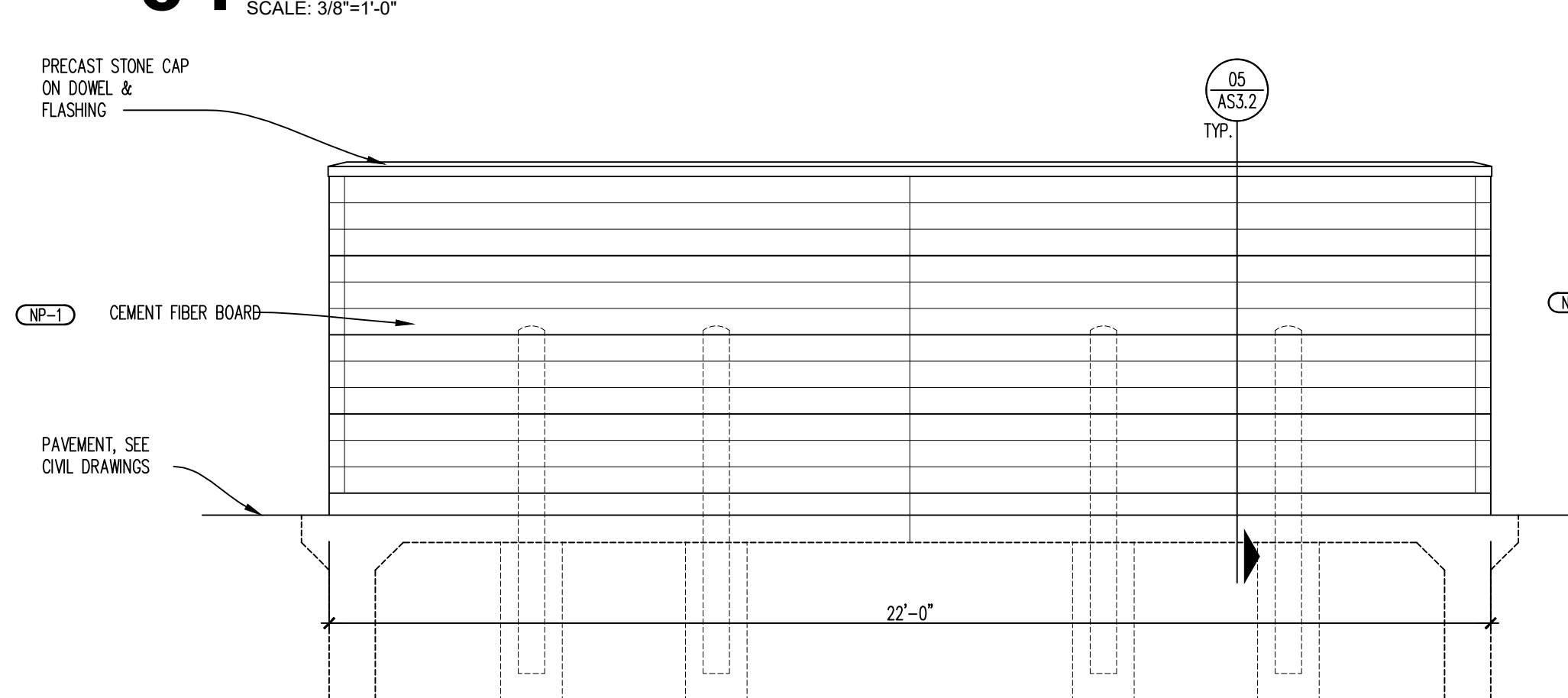
03 DROP PIN DETAIL
SCALE: 3/4\"=1'-0"



02 TRASH ENCLOSURE PLAN
SCALE: 3/8\"=1'-0"



04 ELEVATION - COMPOSITE GATE
SCALE: 3/8\"=1'-0"



01 TRASH ENCLOSURE ELEVATIONS
SCALE: 3/8\"=1'-0"

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LEE'S SUMMIT, MO 64063

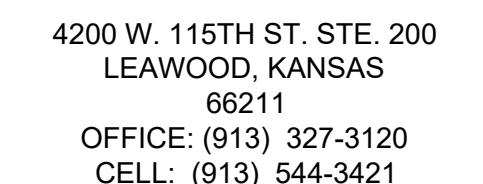
REV.	DATE	DESCRIPTION

ISSUE DATE: 09-05-19
PROJECT NUMBER: NPCQB#6042
DRAWN BY: T.J.L. RM
CHECKED BY: MEN. T.J.L.

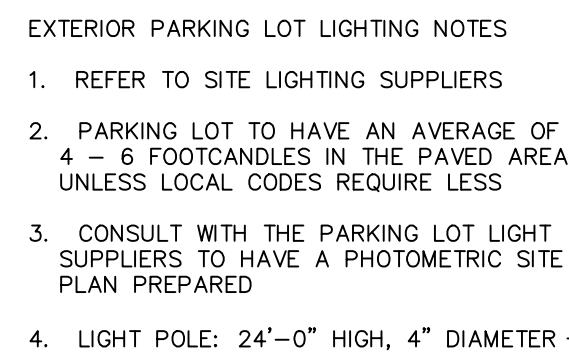
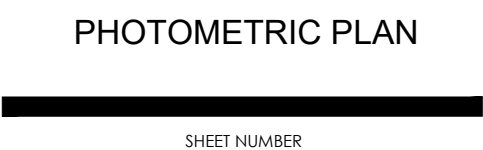
STATE OF MISSOURI
MICHAEL E. NEIKIRK
Professional Engineer
No. 12533
Exp. 09/05/2021
Michael E. Neikirk
SHEET NAME
DETAILS
SHEET NUMBER

C9

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Marc Brundige,
Architect
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PHONE: 972.929.9226
FAX: 972.929.9061



MICHAEL E. NEIKIRK PE
Civil Engineer
306 North Market Street Ste. 101
Mt. Carmel, IL 62863
Phone: (618) 263-4100

[illegible]

LIGHT POLE TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. POLE AND LUMINAIRE TO BE FURNISHED BY THE SAME MANUFACTURER

POLE HEIGHT - 24'-0"
POLE DIAMETER - 4"
POLE TYPE - STEEL SQUARE
POLE FINISH - BRONZE
BOLT SIZE - 11" BOLT CIRCLE
ANCHOR BOLTS - 1"x36" W/
DOUBLE NUT AND WASHERS

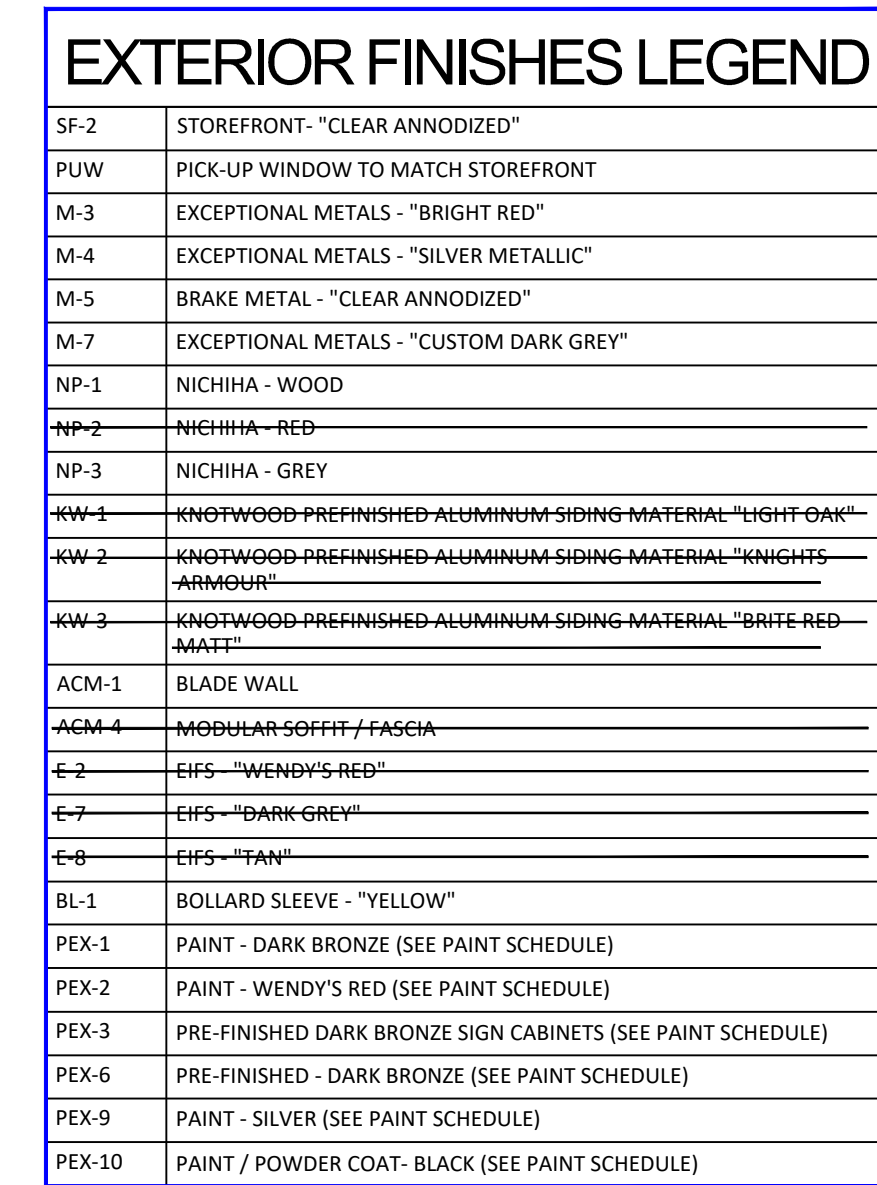
FOR PROPER INSTALLATION OF SITE LIGHTING ALWAYS USE DOUBLE NUTS AND WASHERS. THIS ASSEMBLY WILL PREVENT MOISTURE BUILD-UP IN THE POLE BY ALLOWING AIR TO CIRCULATE THROUGH THE INSIDE OF POLE. BASES MOUNTED DIRECTLY TO CONCRETE CAN CAUSE A MOISTURE BUILD-UP, AND DETERIORATION OF THE POLE'S STABILITY.



Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
CALCS @ GRADE-	Illuminance	Fc	0.78	8.3	0.0	N.A.	N.A.
PROPERTY LINE	Illuminance	Fc	0.03	0.4	0.0	N.A.	N.A.
CURB INTERIOR	Illuminance	Fc	2.91	8.3	0.0	N.A.	N.A.

Total Project Watts
Total Watts = 1441.6

NOT FOR CONSTRUCTION - CITY REVIEW SET



linear!
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4200 W. 115TH ST., STE. 200
LEAWOOD, KANSAS
66211
PHONE: (913) 327-5555
FAX: (913) 327-5850

PROJECT TYPE: NEW
SMART 40 - SQUARE

ISSUED FOR
PERMIT
07/26/2019

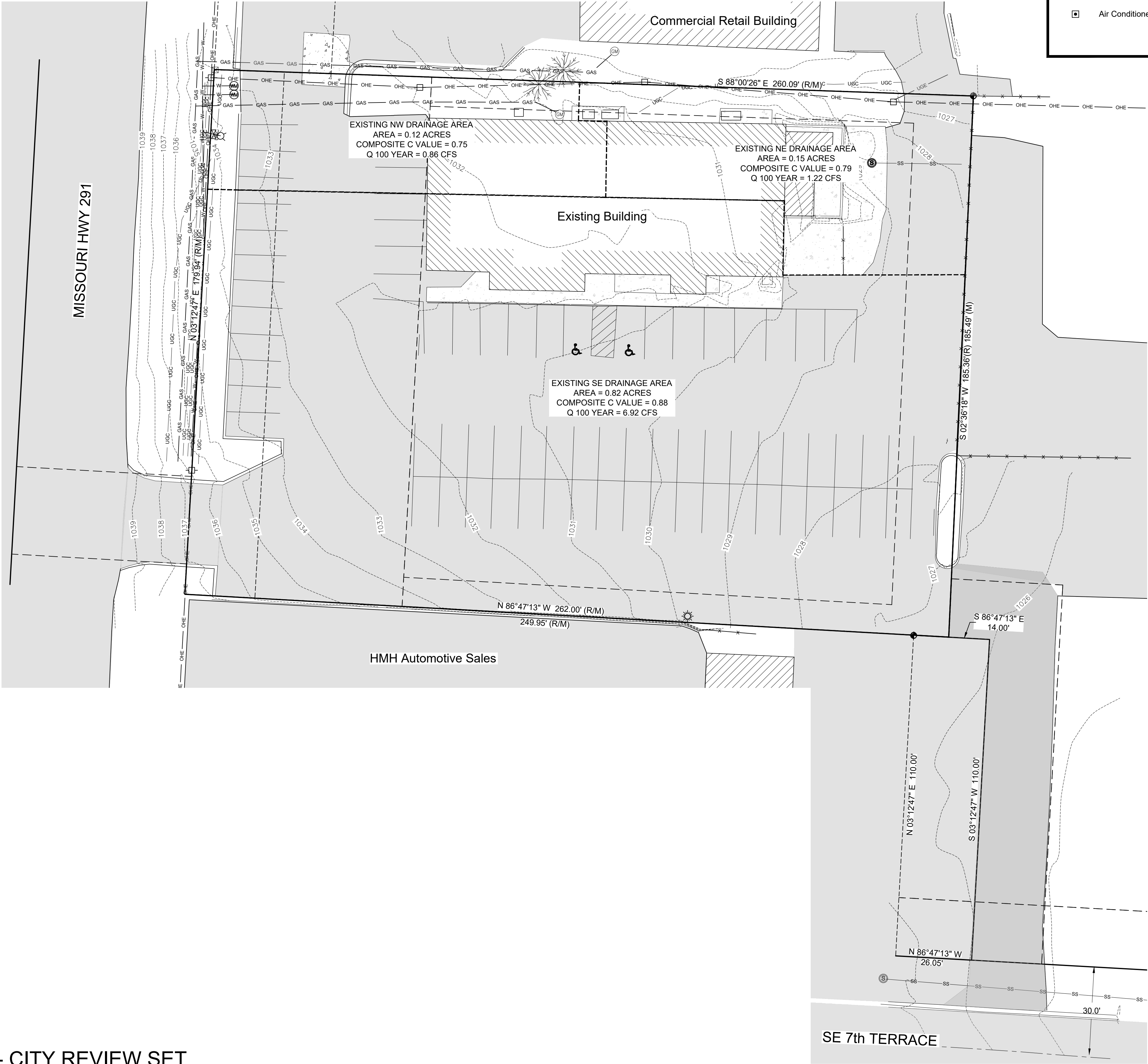
[illegible]

SHEET NAME
NICHHA FINISH OPTION
SMART 40 SQUARE

SHEET NUMBER

A2.1





Benchmark

Iron Pin Found

Iron Pin Set

Bollard

Soil Boring Location

Sanitary Sewer Cleanout

Gas Meter

Storm Sewer Curb Inlet

Storm Sewer MH/Open Lid

Light Pole or Traffic Light

Storm Sewer Manhole

Air Conditioner

Sanitary Sewer Manhole

Sign

Water Meter

Water Valve

Utility Pole

To Be Removed

Top of Curb

Pavement

Match Existing

Grade point

Number of Parking Spaces

To Be Removed

W

W

SS

SS

X

X

X

470

470

UGE

UGE

S

S

W

W

OHE

OHE

GAS

GAS

Water Line

Sanitary Sewer Main

Fence

Existing Contours

Proposed Contours

Underground Electric

Storm Sewer

Limits of Pavement Removal

Overhead Utility Lines

Gas Lines

Ditch / Swale

Existing Asphalt

New Asphalt

New Concrete

Existing Asphalt TBR

Gravel

Existing Concrete

Existing Concrete TBR

EXISTING NORTHWEST DRAINAGE AREA:

TOTAL AREA = 0.12 ACRES
IMPERVIOUS AREA = 0.09 ACRES @ C=0.90
PERVIOUS AREA = 0.03 ACRES @ C=0.30
COMPOSITE C = 0.75

TIME OF CONCENTRATION = 7.75 MIN.
1 100 YEAR = 9.29 IN/HOUR
Q = CIA = (0.75)(9.29 IN/HOUR)(0.12 ACRES) = 0.84 CFS

EXISTING NORTHEAST DRAINAGE AREA:

TOTAL AREA = 0.15 ACRES
IMPERVIOUS AREA = 0.12 ACRES @ C = 0.90
PERVIOUS AREA = 0.03 ACRES @ C = 0.30
COMPOSITE C = 0.78

TIME OF CONCENTRATION = 2.09 MIN. THEREFORE USE 5 MIN. MIN.
1 100 YEAR = 10.3 IN/HOUR
Q= CIA = (0.78)(10.3 IN/HOUR)(0.15 ACRES) = 1.21 CFS

EXISTING SOUTHEAST DRAINAGE AREA:

TOTAL AREA = 0.82 ACRES
IMPERVIOUS AREA = 0.79 ACRES @ C = 0.90
PERVIOUS AREA = 0.03 ACRES @ C = 0.30
COMPOSITE C = 0.88

TIME OF CONCENTRATION = 6.99 MIN.
1 100 YEAR = 9.6 IN/HOUR
Q = CIA = (0.88)(9.6 IN/HOUR)(0.82 ACRES) = 6.93 CFS

NOTE: Bearings based on: N.A.D. 83
Missouri State Plane Coordinate System
- West Zone

N

0'

20'

40'

60'

SE 7th TERRACE

The logo for the Missouri One Call System, Inc. features a red circle with a white border. Inside the circle, there is a black silhouette of a person digging with a shovel. Overlaid on the circle is the text "MISSOURI ONE CALL SYSTEM, INC." in a curved path at the top and "1-800-344-7483 or 811" in a curved path at the bottom. At the very bottom, it says "CALL OR CLICK BEFORE YOU DIG! 100%call.com".

Missouri One Call System, Inc. is open 7 days a week, 24 hours a day to process locate requests or address questions regarding a locate request. The toll free number is 1-800-344-7483 or 811 (the National three digit call before you dig phone number).

SITE NUMBER:	12802
BASE MDL: SMART 55 - NARROW 2017	
ASSET TYPE:	FRAN
CLASSIFICATION:	NEW
OWNER:	NPCQB
BASE VERSION:	2017
UPGRADE CLASSIFICATION:	
	NEW BUILD
PROJECT YEAR:	2019
FURNITURE PACKAGE:	2016 V3
DRAWING RELEASE	SPRING 2018

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DALLAS, TX 75019
PHONE: 972.929.9226
FAX: 972.929.9061

npc

quality burgers

4200 W. 115TH ST. STE. 200
LEAWOOD, KANSAS
66211
OFFICE: (913) 327-3120
CELL: (913) 544-3421

PROJECT TYPE: NEW
SMART 55 - NARROW

MICHAEL E. NEIKIRK PE
Civil Engineer
306 North Market Street Ste. 101
Mt. Carmel, IL 62863
Phone: (618) 263-4100

Wendy's

#12533 (NPCQB#6042)
711 E MISSOURI 291 HWY
LEE'S SUMMIT, MO 64063

REV.	DATE	DESCRIPTION

ISSUE DATE: 09-05-19
PROJECT NUMBER: NPCQB#6042
DRAWN BY: RIA.T.J.
CHECKED BY: MEN.T.J.

STATE OF MISSOURI

NOTARY PUBLIC

MICHAEL E. NEIKIRK

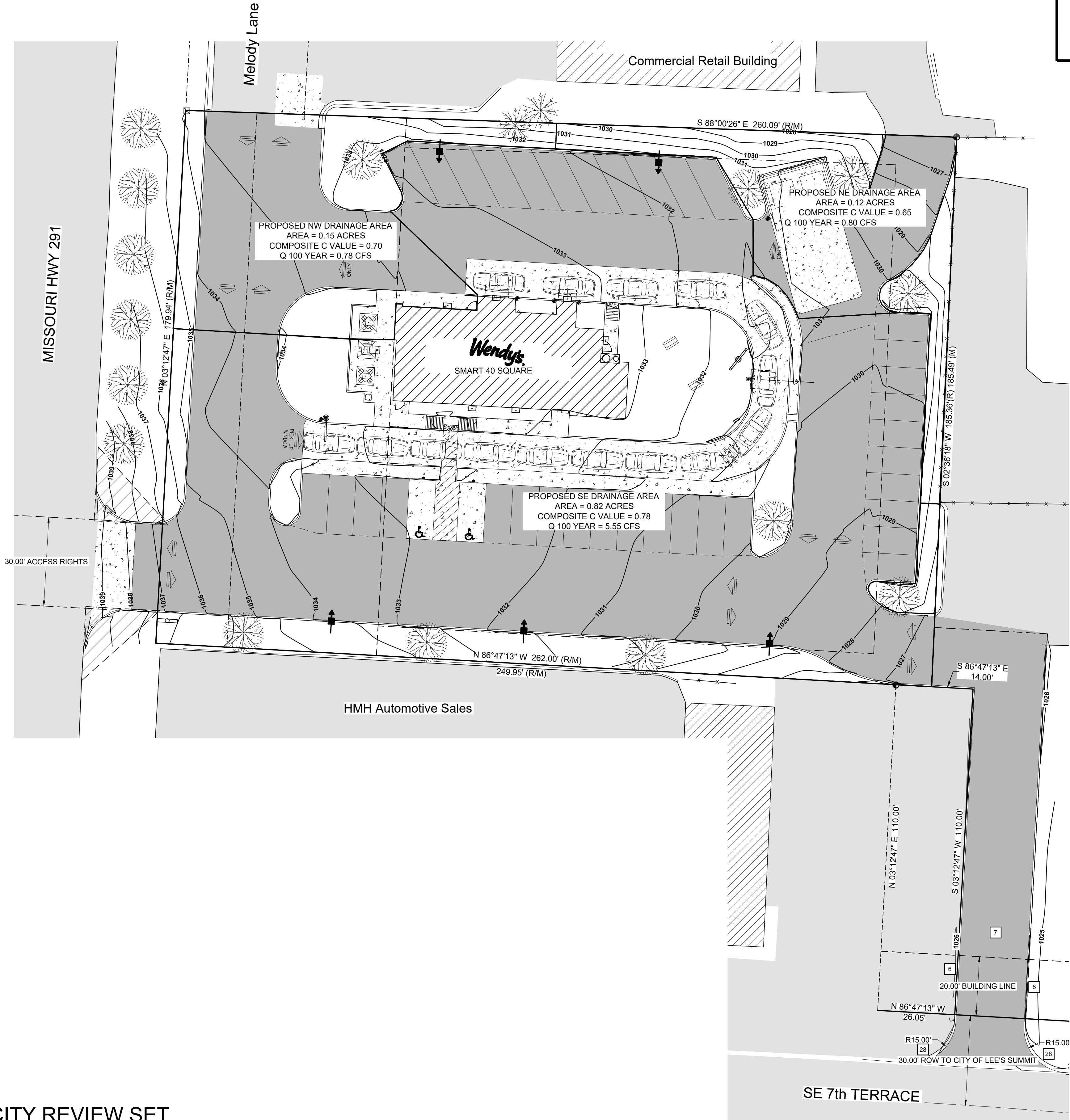
COMMERCIAL ENGINEER

Michael E. Neikirk

EXISTING DRAINAGE AREAS

SHEET NUMBER

EX. 1



LEGEND

Benchmark	Sanitary Sewer Manhole	Water Line
Iron Pin Found	Sign	Sanitary Sewer Main
Backflow Preventer	Water Meter	Fence
Bollard	Water Valve	Existing Contours
Soil Boring Location	Utility Pole	Proposed Contours
Sanitary Sewer Cleanout	TBR To Be Removed	Underground Electric
Gas Meter	TC Top of Curb	Storm Sewer
Storm Sewer Curb Inlet	PV Pavement	Limits of Pavement Removal
Storm Sewer MH/Open Lid	ME Match Existing	Overhead Utility Lines
Light Pole or Traffic Light	Grade point	Gas Lines
Storm Sewer Manhole	Number of Parking Spaces	Ditch / Swale
	To Be Removed	

Existing Asphalt, New Asphalt, New Concrete, Gravel, Existing Concrete

PROPOSED NORTHWEST DRAINAGE AREA:

TOTAL AREA = 0.15 ACRES
IMPERVIOUS AREA = 0.10 ACRES @ C=0.90
PERVIOUS AREA = 0.05 ACRES @ C=0.30
COMPOSITE C = 0.70
TIME OF CONCENTRATION = 7.80 MIN.
1 100 YEAR = 9.27 IN/HOUR
Q = CIA = (0.70)(9.27 IN/HOUR)(0.12 ACRES) = 0.78 CFS
EXISTING 0.84 CFS > PROPOSED 0.78 CFS

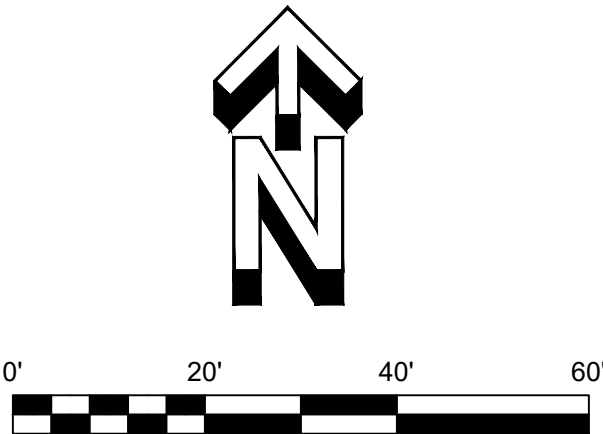
PROPOSED NORTHEAST DRAINAGE AREA:

TOTAL AREA = 0.12 ACRES
IMPERVIOUS AREA = 0.07 ACRES @ C = 0.90
PERVIOUS AREA = 0.05 ACRES @ C = 0.30
COMPOSITE C = 0.65
TIME OF CONCENTRATION = 2.37 MIN. THEREFORE USE 5 MIN. MIN.
1 100 YEAR = 10.3 IN/HOUR
Q= CIA = (0.65)(10.3 IN/HOUR)(0.12 ACRES) = 0.80 CFS
EXISTING 1.21 CFS > PROPOSED 0.80 CFS

PROPOSED SOUTHEAST DRAINAGE AREA:

TOTAL AREA = 0.82 ACRES
IMPERVIOUS AREA = 0.66 ACRES @ C = 0.90
PERVIOUS AREA = 0.16 ACRES @ C = 0.30
COMPOSITE C = 0.78
TIME OF CONCENTRATION = 9.72 MIN.
1 100 YEAR = 8.67 IN/HOUR
Q = CIA = (0.78)(8.67 IN/HOUR)(0.82 ACRES) = 5.55 CFS
EXISTING 6.93 CFS > PROPOSED 5.55 CFS

C-VALUES ARE FROM TABLE 5602-3 RUNOFF PARAMETERS, TIME OF CONCENTRATION CALCULATIONS WERE COMPLETED USING EQUATION FROM SECTION 5602.7, AND INTENSITIES WERE CALCULATED USING TABLE 5602-5 FROM APWA STORM DRAINAGE SYSTEMS AND FACILITIES MANUAL.



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OWNER:	NPCQB
BASE VERSION:	2017
UPGRADE CLASSIFICATION:	
	NEW BUILD
PROJECT YEAR:	2019
FURNITURE PACKAGE:	2016 V3
DRAWING RELEASE	SPRING 2018

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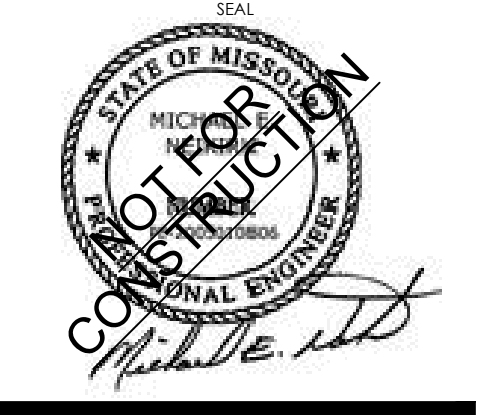
PROJECT TYPE: NEW
SMART 55 - NARROW

MICHAEL E. NEIKIRK PE
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Mt. Carmel, IL 62863
Phone: (618) 263-4100

Wendy's
#12533 (NPCQB#6042)
711 E MISSOURI 291 HWY
LEE'S SUMMIT, MO 64063

REV.	DATE	DESCRIPTION

ISSUE DATE: 09-05-19
PROJECT NUMBER: NPCQB#6042
DRAWN BY: T.J.L. RM
CHECKED BY: MEN. T.J.L.



SHEET NAME
PROPOSED DRAINAGE AREA
SHEET NUMBER

EX. 2



1 WEST ELEVATION
NOT TO SCALE



2 SOUTH ELEVATION
NOT TO SCALE



3 EAST ELEVATION
NOT TO SCALE



4 NORTH ELEVATION
NOT TO SCALE

SITE NUMBER:	12802
BASE MDL: SMART 55 - NARROW 2017	
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OWNER:	NPCQB
BASE VERSION:	2017
UPGRADE CLASSIFICATION:	
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REV.	DATE	DESCRIPTION

ISSUE DATE: 09-05-19
PROJECT NUMBER: NPCQB#6042
DRAWN BY: T.JL RM
CHECKED BY: MEN T.JL



SHEET NAME
COLORED RENDERINGS

SHEET NUMBER

EX. 3